

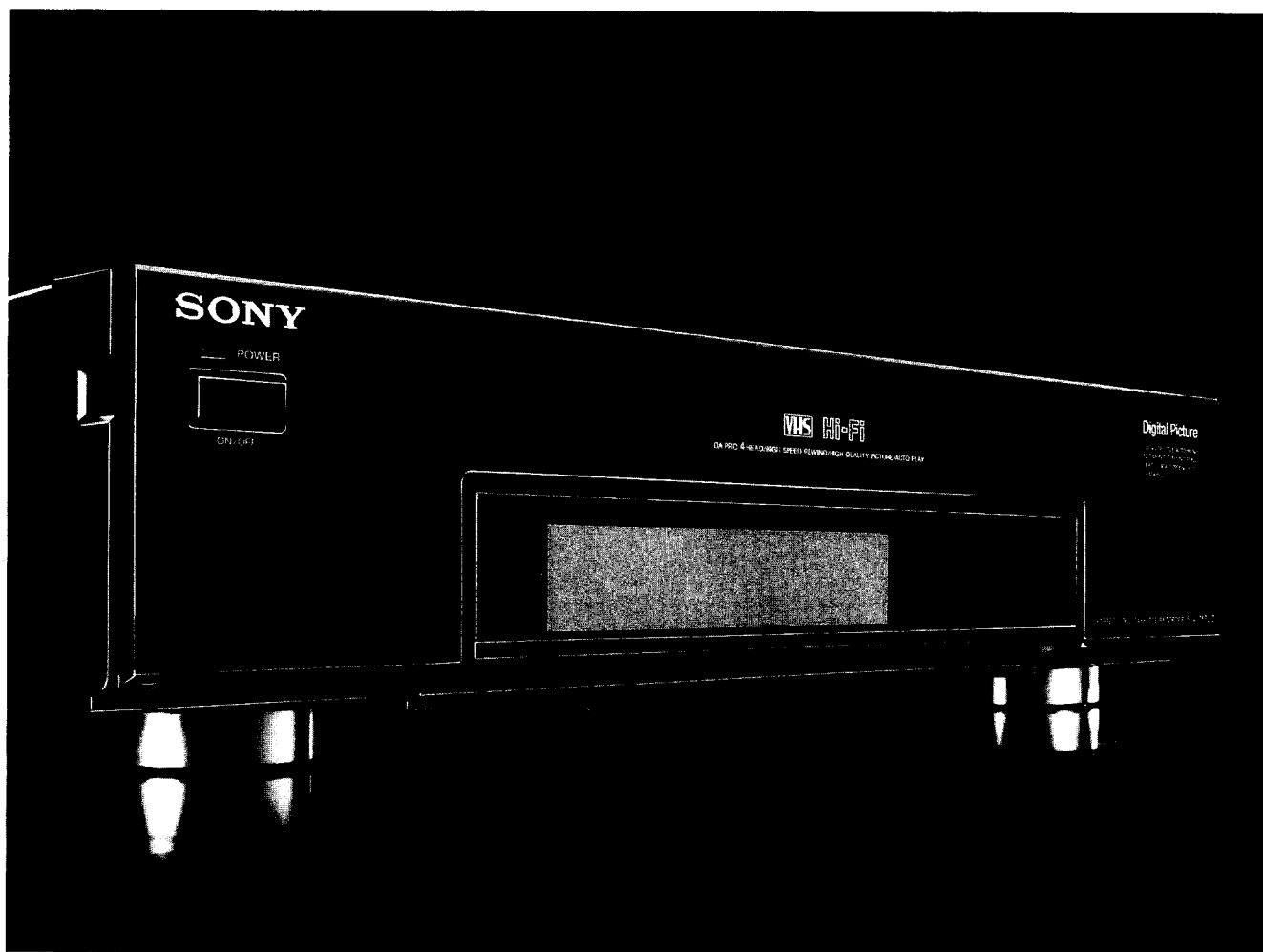
**SONY**

3-750-331-21 (2)

# *Video Cassette Recorder*

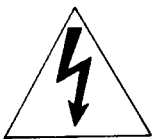
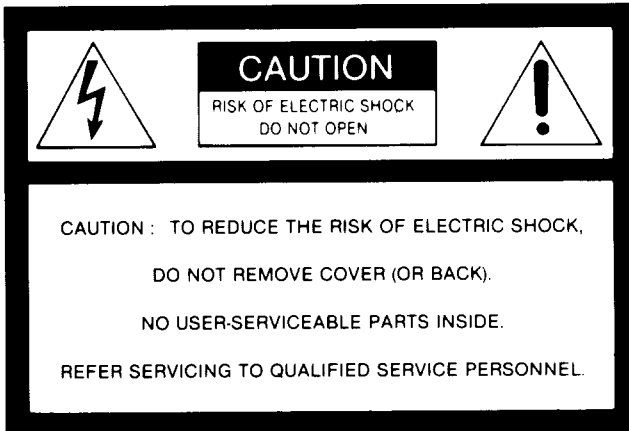
**SLV-757UC**

Operating Instructions



# 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.

## For the customers in the U.S.A.

### 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 measures:

Reorient the receiving antenna

Relocate the equipment with respect to the receiver

Move the equipment away from the receiver

Plug the 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.

## For the customers in Canada

This apparatus complies with the Class B limits for radio noise emissions set out in Radio Interference Regulations.

### 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.

## Owner's Record

The model number is located at the front.  
The serial number is located on the top of the panel.  
Record the serial number in the space provided right.  
Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. SLV-757UC

Serial No. \_\_\_\_\_

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# Precautions

## On Safety

- Operate the unit only on 120V AC, 60Hz.
- Should anything 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 will not 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, such as microwave ovens or large loudspeakers.
- Do not place any heavy object on the unit.

## On Operation

- When the unit is not in use, turn the power off to conserve energy and to extend the life of the unit.
- 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 dry, soft cloth, or a soft cloth slightly 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.

If you have any questions about this unit, contact your Sony dealer or qualified technician.

## Before You Begin

- Check that the following accessories are in the carton with your unit:
  - Remote Commander RMT-V757A (1)
  - Size AA (R6) batteries (2)
  - External antenna connector (1)
  - 75-ohm coaxial cable with F-type connectors (1)
  - AC power cord (1)
  - Video connecting cable (1)
  - Audio connecting cable (1)
- In the text of this manual, buttons and switches are shown in capital letters.  
Example:  
Press **PLAY**.
- The buttons on the Commander and the unit with the same mark have the same functions.
- Notes are enclosed in boxes.

# Introduction

## How to Use This Manual

This manual is arranged to help you quickly find the information you need for the operation of the SLV-757UC. This manual consists of the following 4 sections.

- 1 Preliminaries
- 2 Preparation
- 3 Operation
- 4 Other Information

First, look through the Table of Contents. If you are already familiar with VCR operation, read starting from the "Preparation" section. If you are new to VCR operation, start with "Identifying the Operational Parts" to familiarize yourself with this unit. To have a quick overview of the operation of this unit, refer to "Playing a Tape" (page 30), "Recording TV Programs" (page 38), and "Timer Recording" (page 46).

## Overview of the SLV-757UC

### Tape editing functions

#### Edit monitor functions

You can see the editing process at a glance as both the picture being played back and the one being recorded are simultaneously displayed on the TV screen.

#### Input connectors located at the front

Allows you to connect a video camera recorder easily.

#### Flying erase head

Color streaks and blurs which were conventionally caused by continuous recording or insert editing are eliminated with this head.

#### Synchronized editing

You can use this unit as the recorder and the player for the editing and control this unit and the connected VCR simultaneously.

#### Control S input/output jacks and control L jack

At the synchronized editing, you can remotely control the tape transport of other Sony video equipment by using this unit.

### Display functions and AUTO MENU

#### AUTO MENU

You can select a tape transport operation on the TV screen.

#### P in P (picture in picture)

You can watch a small TV picture inset in the VCR playback picture and vice versa.

#### Data screen

Tape counter, tape speed, remaining tape length, channel number etc. are displayed.

#### Timer setting

The recordings can be preset on the TV screen with the Remote Commander.

#### Timer title

Just before a timer recording starts, the date, time and channel of the program are recorded.

### Other convenient functions

#### AUTO TRACKING function

Automatically adjusts the screen for a clear picture.

#### FULL-LOADING mechanism

Quickly switches the tape transport operation.

#### SWING SHUTTLE ring

You can play back a tape or play back in reverse at the various speed.

#### Shuttle edit buttons

You can easily find the starting point for the recording.

#### Timer recordings of 8 programs over a month

You can preset recordings of 8 TV programs as much as one month in advance.

#### AUDIO and VIDEO INSERT recording

You can insert a desired sound and/or picture at the desired point onto a prerecorded tape.

#### Function memory

With one push of the button, the selected tape transport operation starts.

#### High-quality Picture

The SLV-757UC provides sharp, finely detailed pictures through High Quality picture technology.

**HQ:** The video cassette recorder (VCR) with this marking incorporates VHS high-quality picture technology and is compatible with any video cassette recorder bearing the **VHS** mark.

#### High quality sound

This VCR automatically performs hi-fi recordings.

Dynamic range: More than 90 dB

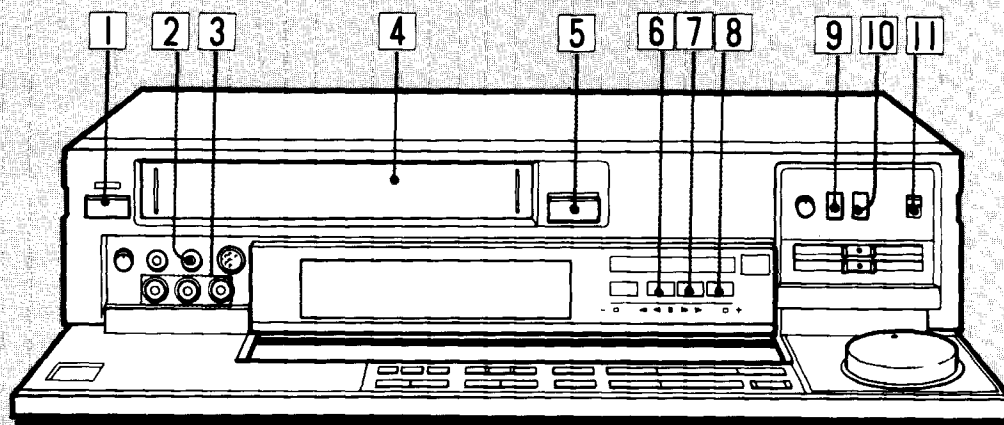
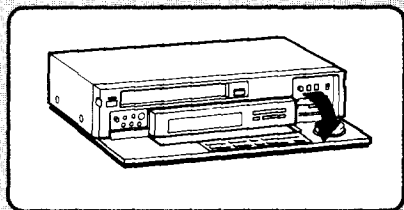
Wow and flutter: Less than 0.005%

Audio frequency response: 20 — 20,000 Hz

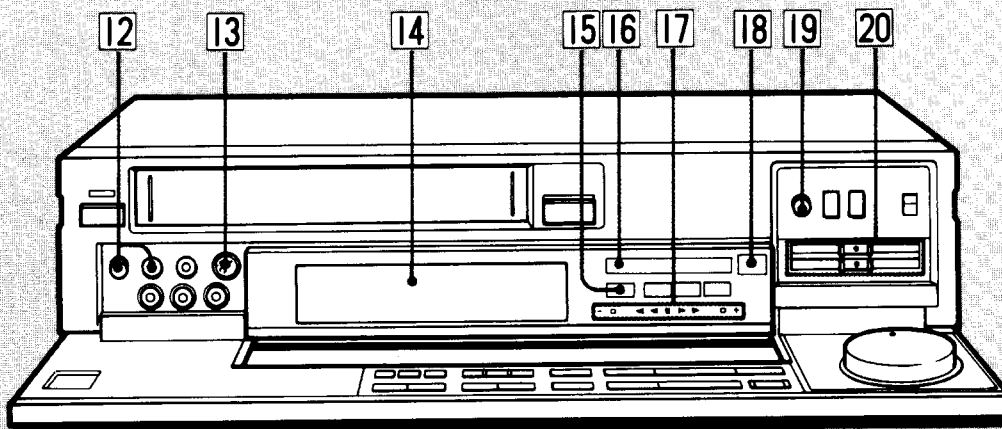
Reproduces clear sound

# Identifying the Operational Parts

## Front



- 1 POWER switch and indicator**  
Press to turn on the power of the VCR. The indicator lights when power is supplied.
- 2 MIC jack (mini type)**  
Connect a microphone.
- 3 LINE IN 2 VIDEO/AUDIO jacks (phono type)**  
Connect to the video/audio output of other VCR or video camera.
- 4 Cassette compartment**  
Insert a cassette. When the cassette is inserted, the power will be automatically turned on.
- 5 ▲ EJECT button**  
Press to eject the cassette.
- 6 SYNCHRO EDIT indicator**  
Lights when the SYNCHRO EDIT button is pressed.
- 7 AUDIO INSERT indicator**  
Lights when the AUDIO INSERT button is pressed.
- 8 VIDEO INSERT indicator**  
Lights when the VIDEO INSERT button is pressed.
- 9 EDIT MONITOR button**  
Press to display the EDIT MONITOR display.
- 10 SYNCHRO EDIT button**  
Press to perform synchronized editing.
- 11 COMMAND MODE switch**  
To remotely control the VCR with the supplied wireless Commander, set this selector to the same position as that on the Commander. Usually set to VTR 3.



**12 HEADPHONES jack (stereo mini type) and LEVEL (headphone level) control**

Connect headphones to this jack and adjust the sound level.

**13 CONTROL L connector (5-pin DIN type)**

Connect to the CONTROL L connector of other Sony product for systematic operations such as synchronized editing.

If you connect a Sony editing controller RM-E300, you can perform automatic assemble editing of up to 8 programs.

**About the LANC**

LANC stands for Local Application Control Bus System. The LANC connector is used for controlling the tape transport of video equipment and peripherals connected to it. This connector has the same function as the connectors indicated as CONTROL L or REMOTE.

**14 Display window**

Various displays appear.

See "Indications in the Display Window." (page 72)

**15 EDIT MONITOR indicator**

Lights when the EDIT MONITOR button is pressed.

**16 AUTO TRACKING indicator**

Blinks while the VCR is searching for the best tracking position.

Lights when the best position is obtained.

**17 SWING SHUTTLE indicator**

According to the tape transport, the corresponding indicator will light.

**18 Remote sensor**

Point the supplied infrared Remote Commander RMT-V757A here.

**19 SHARPNESS control**

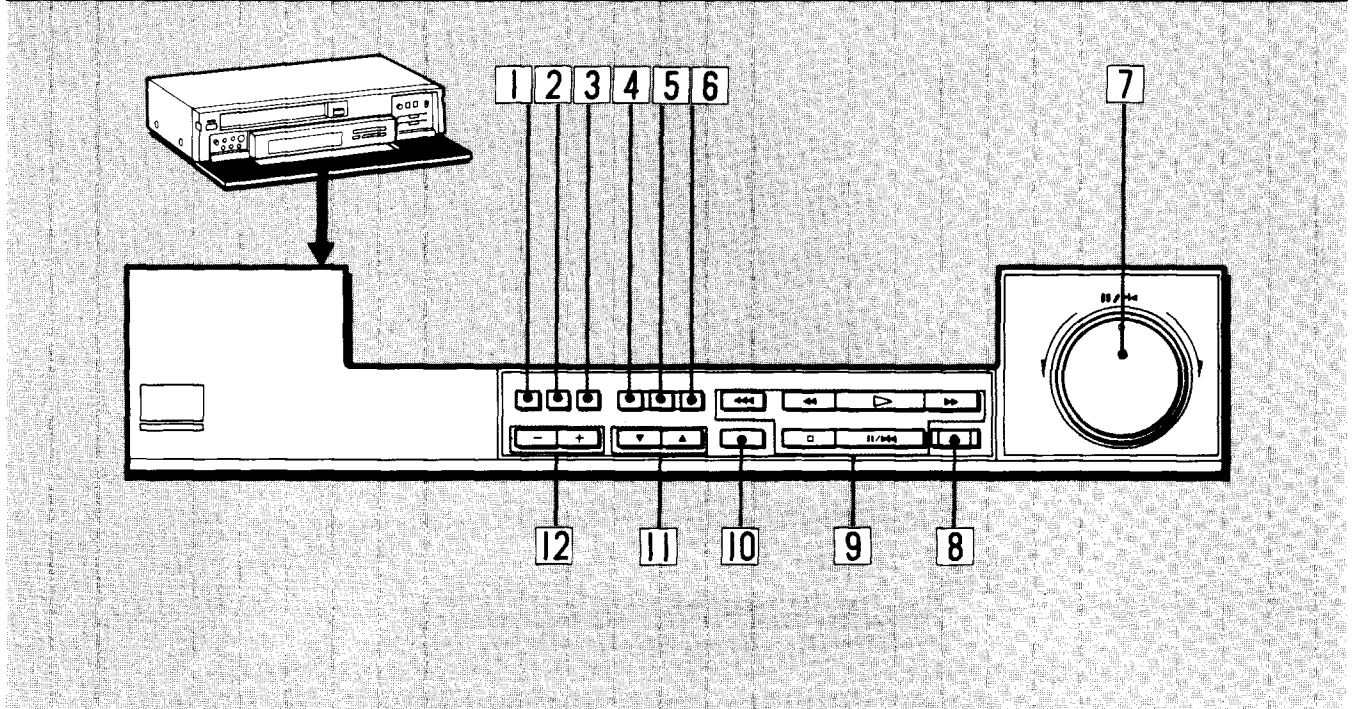
Use to adjust the sharpness of the picture if necessary. Normally set this control at the center indented position.

**20 REC LEVEL controls**

Adjust the audio recording level. Normally keep these controls at the center indented position.

# Identifying the Operational Parts

## Inside the Front Panel

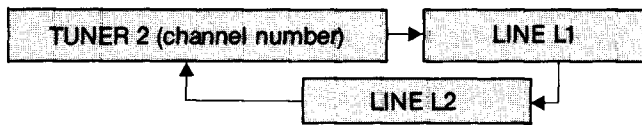


**1 ANT TV/VTR button**

Press so that the VTR indicator lights to watch a program selected on the unit. To watch one TV program while recording another, press this button again to turn off the indicator.

**2 INPUT SELECT button**

Press so that the desired input mode indicator appears in the display window to select the program to be recorded. The indicator changes as follows.



**3 REC MODE button**

Press to select the recording tape speed, SP or EP. The playback speed will be automatically detected regardless of the setting of this button.

**4 EDIT button**

Normally keep this button at OFF (i.e. the EDIT indicator is off). When using this VCR for editing, press this button to light the EDIT indicator.

**5 TIMER REC ON/OFF button**

When entering timer recording standby mode, press this button. When changing or canceling a timer recording, or operating the unit before a timer recording starts, press this button to go out timer recording standby mode.

**6 QUICK TIMER button**

Press to start quick timer recording and to set the recording duration.

**7 SWING SHUTTLE ring**

Select the playback speed in playback or recording pause mode.

**8 ● REC button**

Press to start recording.

**9 Tape transport buttons**

◀◀ REW (rewind), ▷ PLAY, ▶▶ FF (fast-forward), ■ STOP, ||/▶▶ PAUSE/STILL, ◀◀◀ HIGH SPEED REWIND

**10 TRACKING AUTO/MANUAL button**

Use to change the manual tracking mode to automatic tracking mode.

**11 TRACKING NORMAL/SLOW and STILL ADJUST buttons**

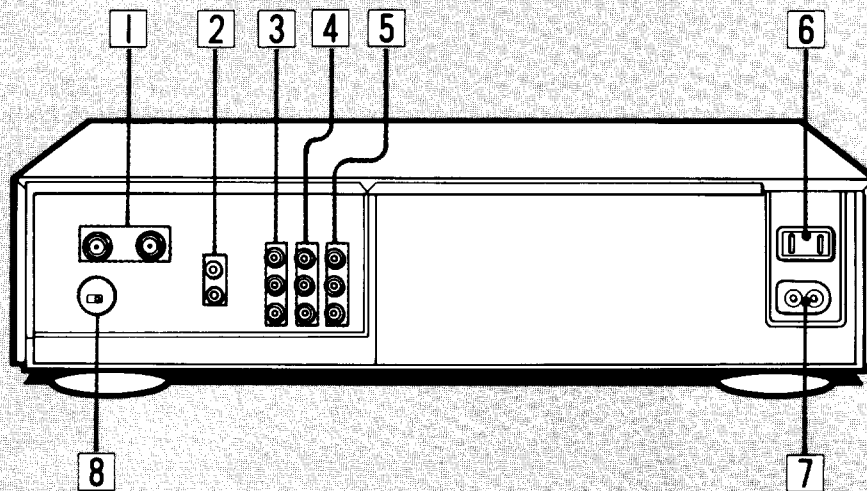
Press to clear streaks if they appear on the screen in the normal and slow playback. (Tracking normal/slow) Press to reduce picture shaking in the still mode. (Still adjust)

**12 CHANNEL +/- buttons**

Press to select the preset channels. Press + to advance and - to reverse.

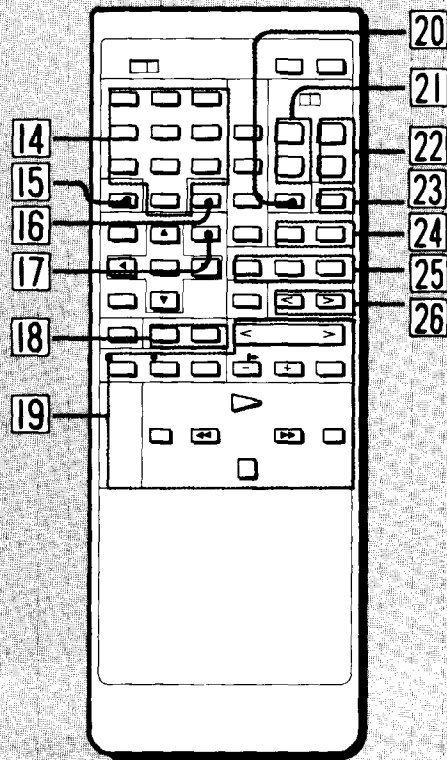
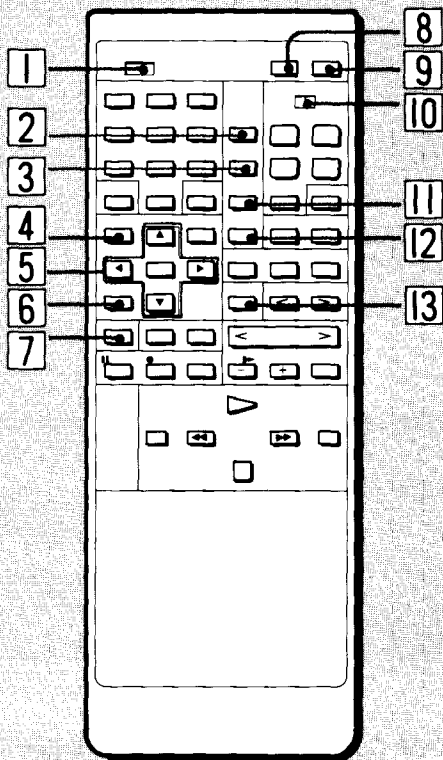


## Rear Panel



- 1 VHF/UHF IN and OUT connectors (F type)**
- 2 CONTROL S IN/OUT jack (mini type)**  
**IN:** Connect to the CONTROL S output jack of a Sony TV set or TV tuner to operate the VCR by remote control through the TV or TV tuner.  
**OUT:** Connect to the CONTROL S input jack of other Sony product for systematic operations such as synchronized editing.
- 3 LINE IN 1 AUDIO and VIDEO jacks (phono type)**  
Connect to the LINE OUT AUDIO and VIDEO jacks of other video equipments.
- 4 LINE OUT AUDIO and VIDEO jacks (phono type)**  
Connect to the LINE IN AUDIO and VIDEO jacks of other video equipments.  
**On-screen display cannot be output from the LINE OUT VIDEO jack.**
- 5 MONITOR OUT AUDIO and VIDEO jacks (phono type)**  
Connect to the LINE IN jacks on a TV. The unit displays on-screen displays on the TV or monitor through this connection.
- 6 AC OUTLET (unswitched, max. 400W)**  
Supplies AC power to video or audio equipment. Do not connect any equipment whose power consumption is more than 400W.
- 7 AC IN**  
Connect the supplied AC power cord.
- 8 RF UNIT selector**  
Use to select the channel for VCR playback or program, 3CH or 4 CH, whichever is not active in your area.

## Remote Commander



**1 COMMAND MODE selector**

To remotely control the VCR with the Commander, set this selector to the same position as that on the VCR. Usually set to VTR 3.

Change the position as shown below to control other Sony VCRs.

VTR 1: For Sony Betamax VCRs

VTR 2: For Sony 8mm format VCRs

VTR 3: For Sony VHS format VCRs

**2 INPUT SELECT button**

Press to select the sources to be recorded.

The selected input mode indicator appears in the display window.

**3 REC MODE button**

Press to select the recording tape speed: SP or EP.

The playback speed will be automatically detected regardless of the setting of this button.

**4 MENU button**

Press to enter the MENU mode. Press again to get out of the MENU mode.

**5 EXECUTE button and cursor shift buttons**

Used to preset items in the MENU display.

**6 FUNCTION MEMORY button**

Use to execute the type of tape operation selected in the FUNCTION MEMORY menu.

**7 TV SCAN button**

Press to watch each TV channel for a few seconds in the preset order.

**8 ANT TV/VTR (Antenna TV/VTR) button**

When connecting the VCR and a TV via the VHF antenna terminal, press this button so that VTR Indicator lights in the display window. When you wish to watch TV programs while the VCR is in use, press it again so that the VTR indication is turned off.

**9 POWER switch**

**10 TV/VTR selector**

Set to TV when you use the supplied commander to operate a TV and to VTR to operate a VCR.

**11 DATA SCREEN button**

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

**12 COUNTER RESET button**

Press to reset the counter number to 0H00M00S.

**13 EDIT MONITOR button**

**14 Channel number buttons**  
Press the appropriate button(s) to select the channel, and ENTER.

**15 TIMER CLEAR button**  
Use to clear the memory of the timer settings.

**16 ENTER button**  
Use to enter channel numbers.  
For example, to select channel 10, press 1, 0 and ENTER or to select channel 4, press 4 and ENTER.

**17 TIMER REC ON/OFF button**  
Press this button to enter timer recording standby mode.  
To change or cancel a timer recording, or to operate the unit before a timer recording starts, press this button to go out of timer recording standby mode.  
To stop the tape during timer recording, press this button, also.

**18 AUDIO and VIDEO INSERT buttons**  
Use to insert a new recording onto a portion of a recorded tape.  
**AUDIO:** To insert sound on the normal audio track  
**VIDEO:** To insert picture and hi-fi sound on the video track

**19 Tape transport buttons**

- PAUSE
- REC (press two buttons simultaneously)
- ▶ SLOW (+ : for faster speed, - : for slower speed)
- < , > DIRECTION (Press to decide the direction of PLAY, ×2 and SLOW. During still mode, frame picture is available with this button.)
- ×2 (double speed)
- ⏮ / ⏭ SEARCH (reverse/forward)
- ▶ PLAY
- ⏮ REW (rewind)
- ▶▶ FF (fast-forward)
- STOP

**20 AUDIO MONITOR button**  
Use to select the monitor sound.

**21 VOL (volume) +/– buttons**  
Press to adjust the volume of the TV.

**22 CHANNEL +/– buttons**

**23 INDEX button**  
Use to enter the index function mode.

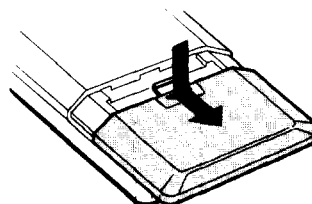
**24 INDEX MARK/ERASE buttons**  
Press MARK to mark an index signal at the desired point on a tape during recording or playback. To erase a previously recorded index signal, locate the index signal and press ERASE.

**25 P in P (picture in picture) buttons**  
P in P (for inserting the subsidiary picture in the playback picture)  
SHIFT (for changing the position of the subsidiary picture)  
DIGITAL OFF (for turning off the subsidiary picture).

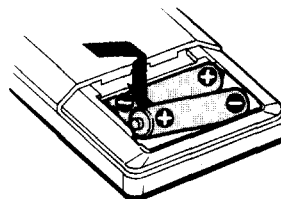
**26 SHUTTLE EDIT button**  
Press to find the starting point easily for the recording.

### Battery insertion

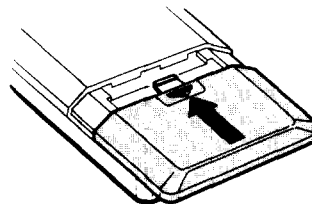
**1** Open the lid.



**2** Insert two size AA (IEC designation on R6) batteries with the polarity lined up correctly.



**3** Close the lid.



### Notes on the handling of batteries

- With normal operation, the batteries will last for approximately 6 months.
- If the Commander will not be used for a long period of time, remove the batteries to avoid possible damage from battery leakage.

# Connections

In order to watch the playback picture on the TV screen and receive TV programs on this VCR, this VCR and the TV must be connected properly.

The connection between the two VCRs varies depending upon the type of TV and antenna that you have.

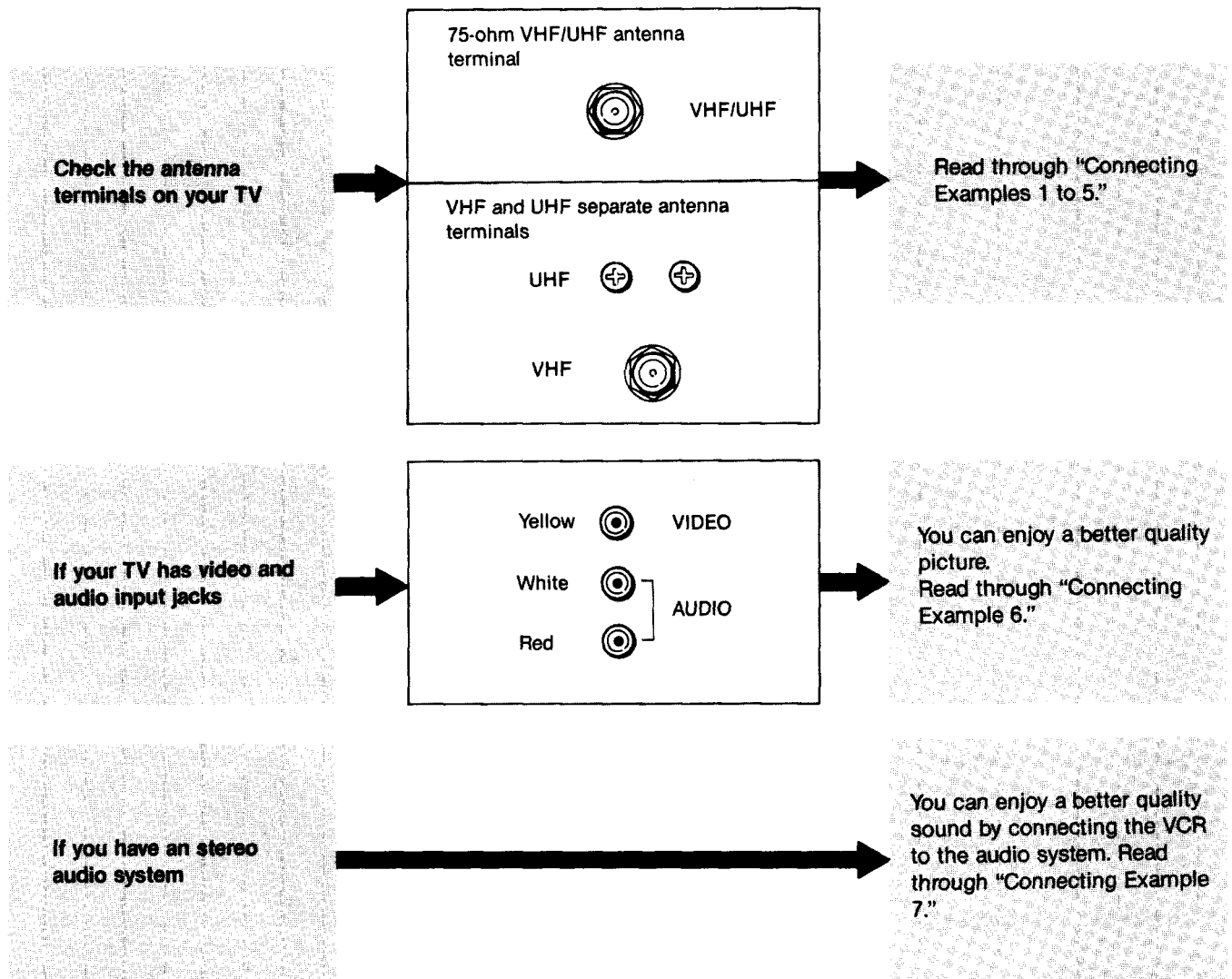
We will show you here some typical ways you can make this connection with the supplied accessories.

Before operating the unit, read through this section and make the correct connections.

## Before You Begin

- Turn off the power of the VCR and the TV.
- Disconnect the AC power cord of the VCR and the TV from the wall outlet.
- Do not connect the AC power cords until all of the connections are completed.
- **If your TV does not match the three examples below** Consult your nearest Sony dealer or qualified technician.

## First Check Your TV



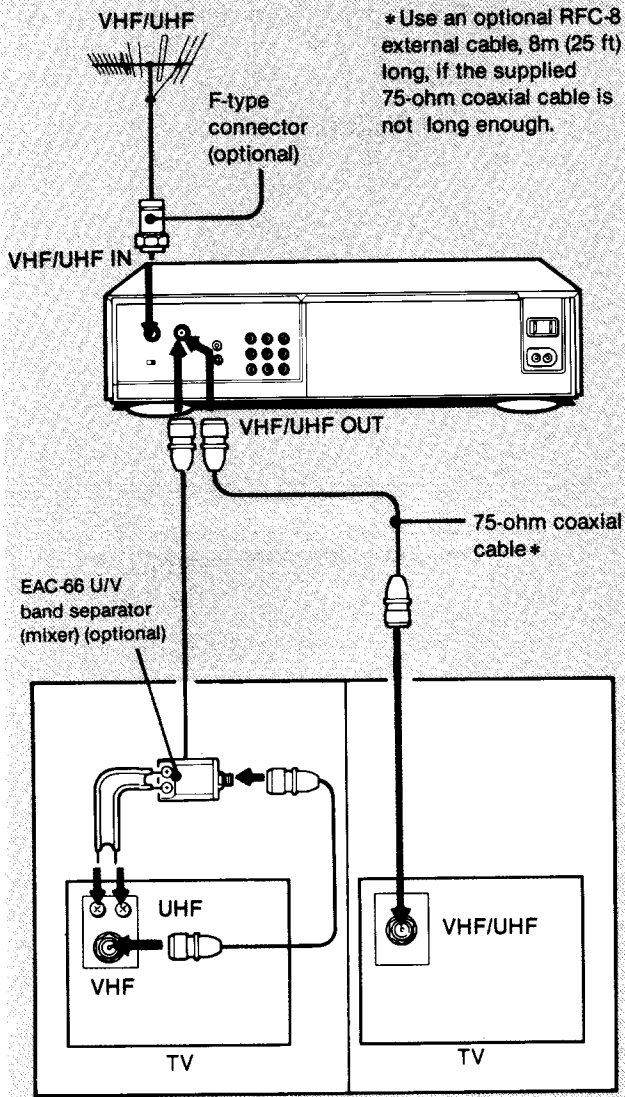
### Caution

Connections between the recorder VHF/UHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in the instructions. Failure to do so may result in operation that violates the regulations 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 connections at the antenna terminals of your receiver.

**Connecting Example 1  
To Connect a Combination VHF/UHF Antenna**



**1** Disconnect the TV antenna cable from the TV and connect it to the VCR.

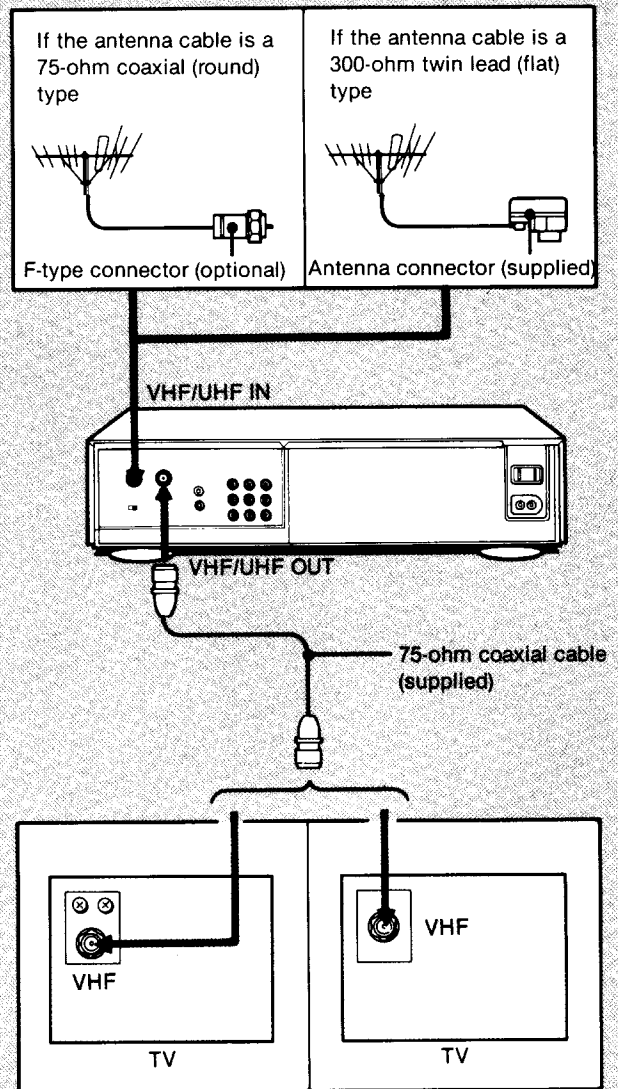
**2** Connect the VCR and the TV.

**TV with a single terminal for the VHF/UHF antenna**  
Connect directly using the supplied 75-ohm coaxial cable.

**TV with separate VHF/UHF antenna terminals**  
Use a U/V band separator.

**How to attach the U/V band separator and the F-type connector**  
See page 17.

**Connecting Example 2  
To Connect a VHF Antenna Only**



**1** Disconnect the TV antenna cable from the TV and connect it to the VCR.

**If the antenna cable is a 75-ohm coaxial (round) type**  
Use an F-type connector (optional)

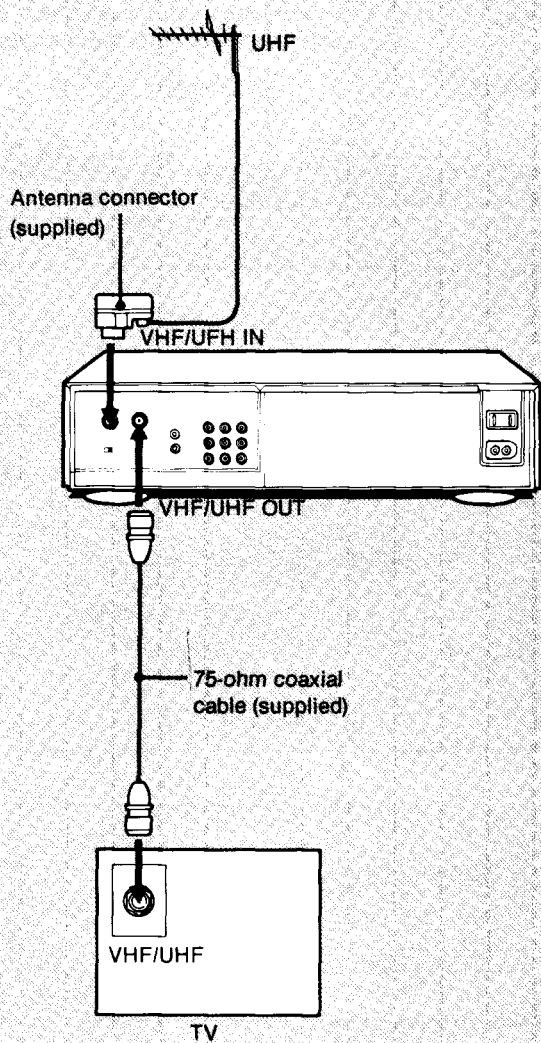
**If the antenna cable is a 300-ohm twin lead (flat) type**  
Use the antenna connector (supplied)

**2** Connect the VHF/UHF OUT terminal on the VCR and the VHF IN terminal on the TV with the 75-ohm coaxial cable (supplied).

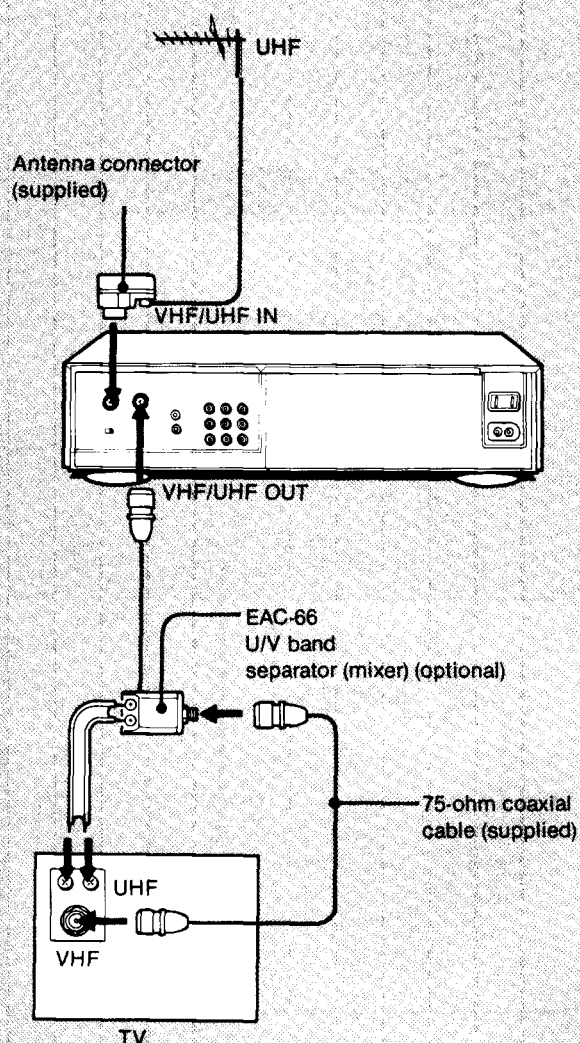
**How to attach the antenna connector and an F-type connector**  
See page 17.

Connecting Example 3  
To Connect a UHF Antenna Only

**A** The VHF/UHF antenna terminal on the TV is combined



**B** The VHF/UHF antenna terminals on the TV are separated



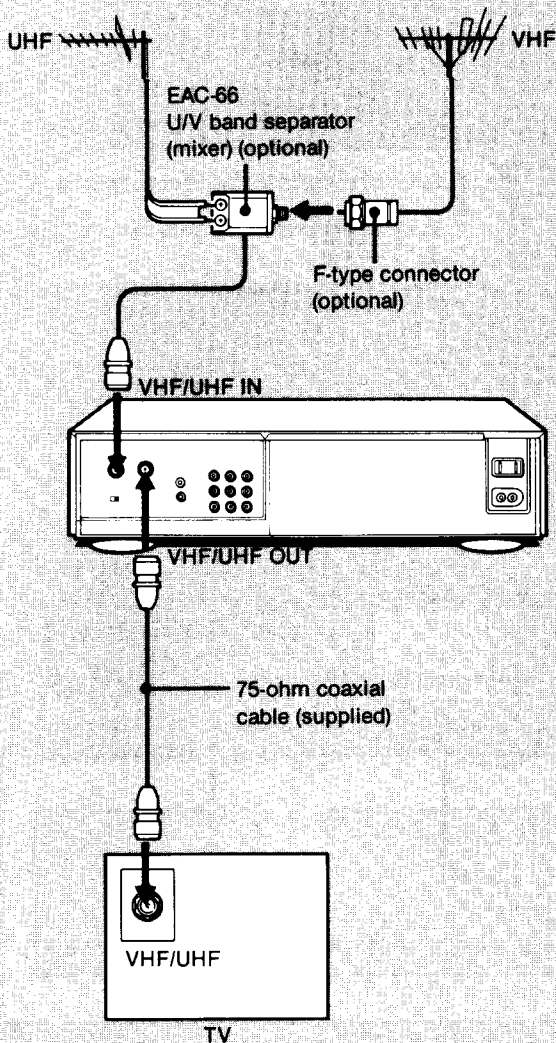
- 1 Attach the supplied antenna connector to the cable.
- 2 Attach the antenna connector to VHF/UHF IN on the VCR.
- 3 Connect VHF/UHF OUT on the VCR and the VHF/UHF antenna terminal on the TV.

- 1 Attach the supplied antenna connector to the cable.
- 2 Attach the antenna connector to the VHF/UHF IN on the VCR.
- 3 Attach an optional EAC-66 U/V band separator to the VHF/UHF OUT connector on the VCR.
- 4 Connect the separator to the VHF and UHF antenna terminal on the TV.

**How to attach the antenna connector and the U/V band separator**  
See page 17.

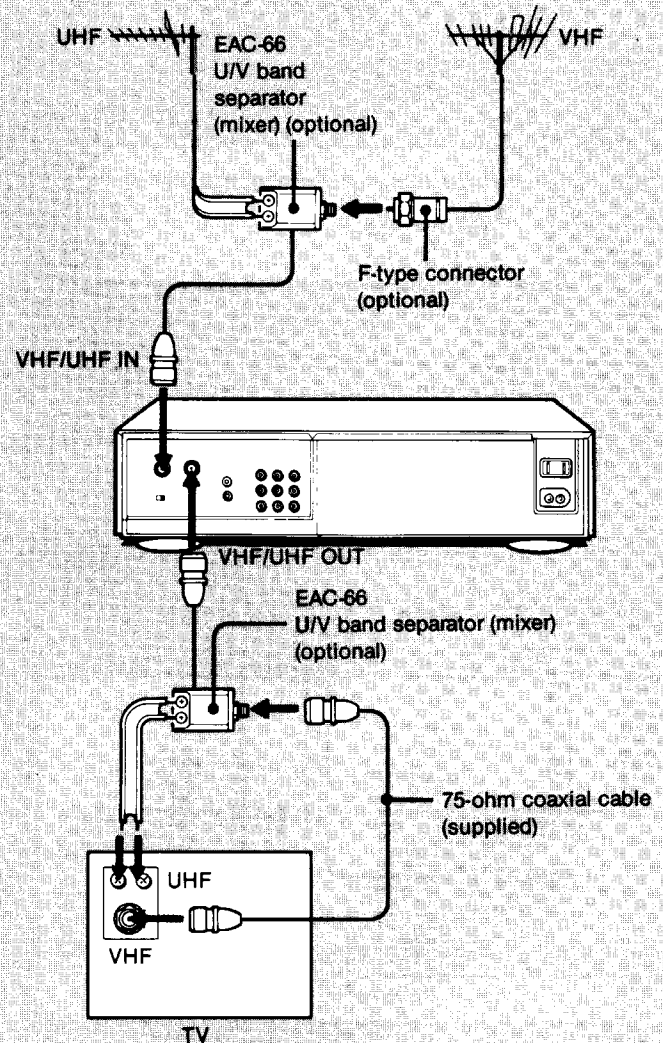
**Connecting Example 4**  
**To Connect both a VHF and UHF Antenna**

**A** If the VHF/UHF antenna terminal on the TV is combined



- 1 Attach a U/V band separator (mixer) with the VHF and UHF antennas to VHF/UHF IN terminal on the VCR.
- 2 Connect the VHF/UHF OUT terminal on the VCR and the VHF/UHF antenna terminal on the TV.

**B** If the VHF/UHF antenna terminals on the TV are separated

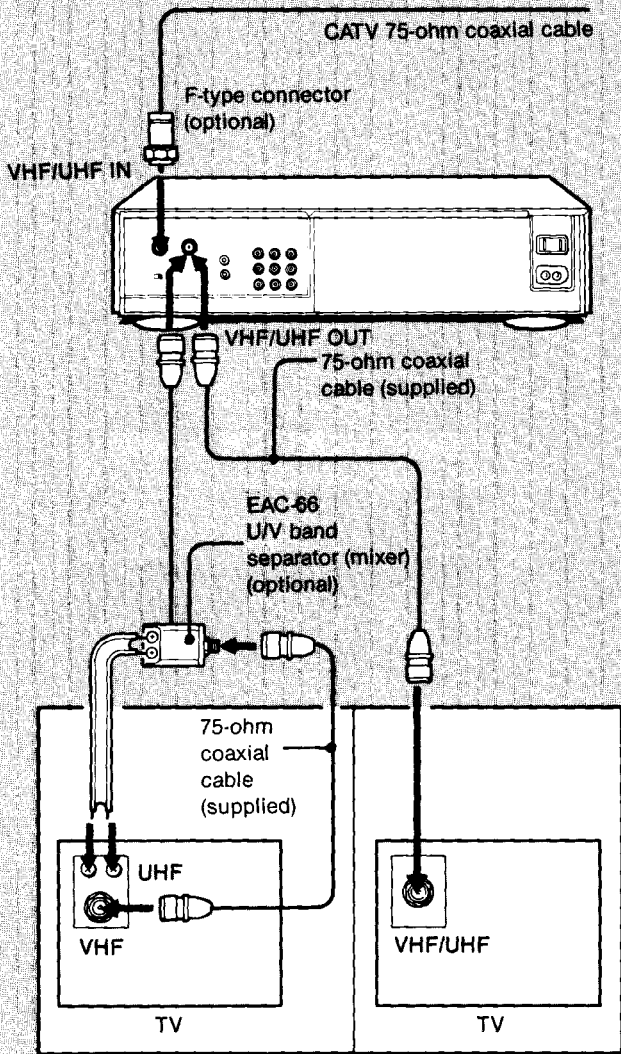


- 1 Attach an optional U/V band separator (mixer) with the VHF and UHF antennas to the VHF/UHF IN terminal on the VCR.
- 2 Attach an optional U/V band separator to the VHF/UHF OUT connector on the VCR.
- 3 Connect the separator to the VHF and UHF antenna terminals on the TV.

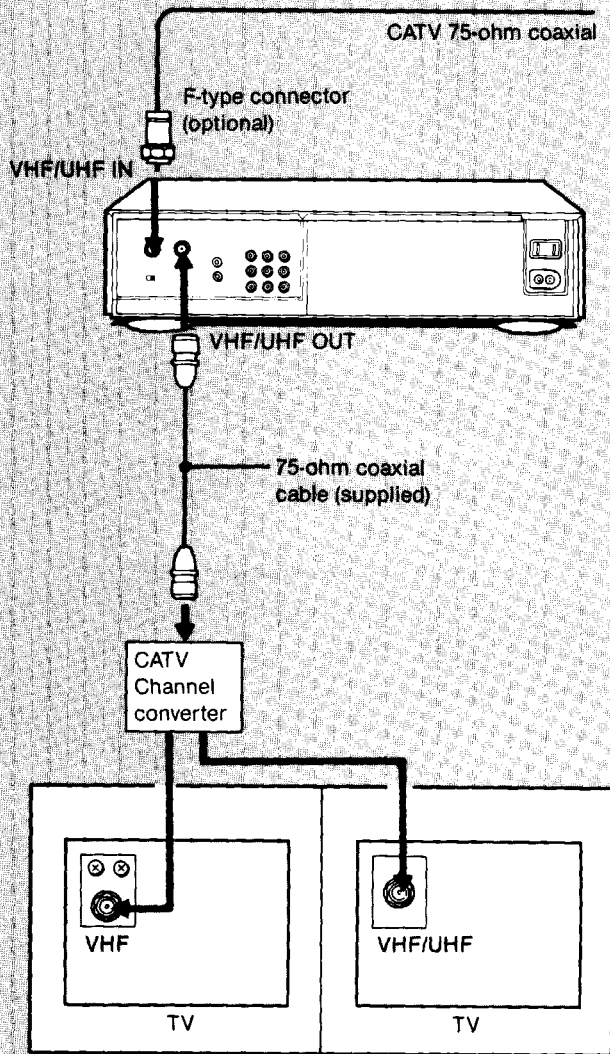
**How to attach a U/V band separator and an F-type connector**  
 See page 17.

Connecting Example 5  
To Connect a Cable-TV System

**A** If your TV set has a built in a CATV decoder



**B** If your TV set does not have a built-in CATV decoder



A connecting example is given above, but we recommend you to consult your cable company to make sure that the cable is properly connected.

Connect the cable TV channel converter between the TV and the VCR.

By setting the TV/VTR switch to TV, you can watch a cable TV program while playing back or recording video sources using the VIDEO LINE IN jack on the VCR.

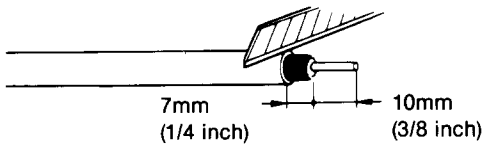
**Note to CATV system installer in the U.S.A**

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.

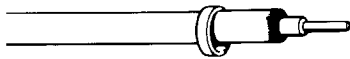


### Attaching an F-type connector (optional)

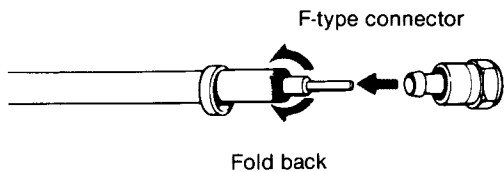
- 1 Strip 1/4 inch from the end of the cable so that 3/8 inch of the center conductor is exposed.



- 2 Slip the crimping ring over the cable.

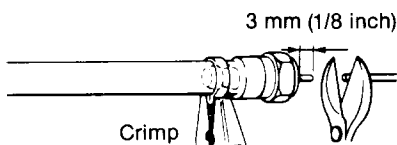


- 3 Insert the inner conductor into the F-type connector shaft and push the end of the cable into the connector as far as it will go.



Slide the crimping ring over this assembly.

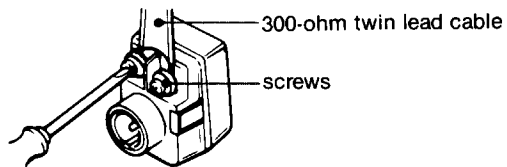
- 4 Then pinch the crimping ring with pliers to hold the connection in place.



- 5 Insert the F-type connector into VHF/UHF IN on the VCR.

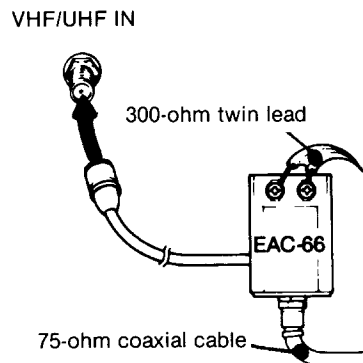


### Attaching an external antenna connector (supplied)



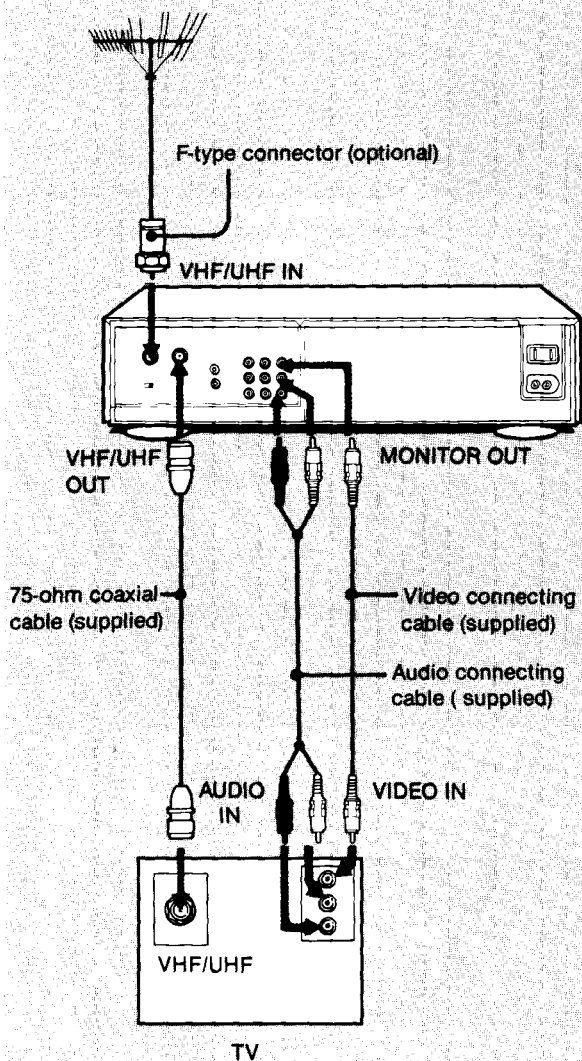
- 1 Loosen the screws on the antenna connector.
- 2 Fit the 300-ohm twin lead cable on the UHF antenna under the screws on antenna connector.
- 3 Tighten the screws again.

### Attaching an EAC-66 U/V band separator(mixer) (optional)



- 1 Loosen the screws on the U/V band separator.
- 2 Fit the 300-ohm twin lead cable on the UHF antenna under the screws.
- 3 Connect the 75-ohm coaxial cable to the U/V band separator.
- 4 Connect the U/V band separator to the VHF/UHF IN terminal on the VCR.

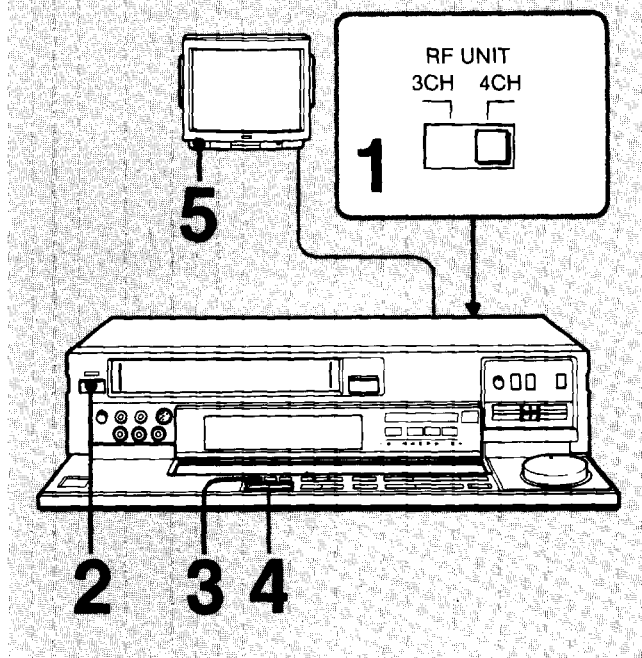
**Connecting Example 6  
To Connect a TV Equipped With Video/Audio  
Input Jacks**



For a high-quality picture, connect a color monitor or a TV equipped with video/audio input jacks.

- 1 Connect the VHF/UHF antenna to VHF/UHF IN terminal on the VCR.
- 2 Connect VHF/UHF OUT connector on the VCR and the VHF/UHF IN terminal on the TV with the supplied 75-ohm coaxial cable.
- 3 Connect MONITOR OUT jacks on the VCR and the video/audio input jacks on the TV with the video connecting cable and audio connecting cable.

**Setting the RF Unit**



**Why the setting is necessary**

Your TV receiver must receive the signal from your recorder.

To get the proper RF signal, set the RF UNIT selector switch on the rear panel of the VCR.

If channel 4 is active in your area, set the switch to channel 3, and vice versa.

**If you connect a color monitor or a TV equipped with video/audio input jacks, you do not need to make this adjustment.**

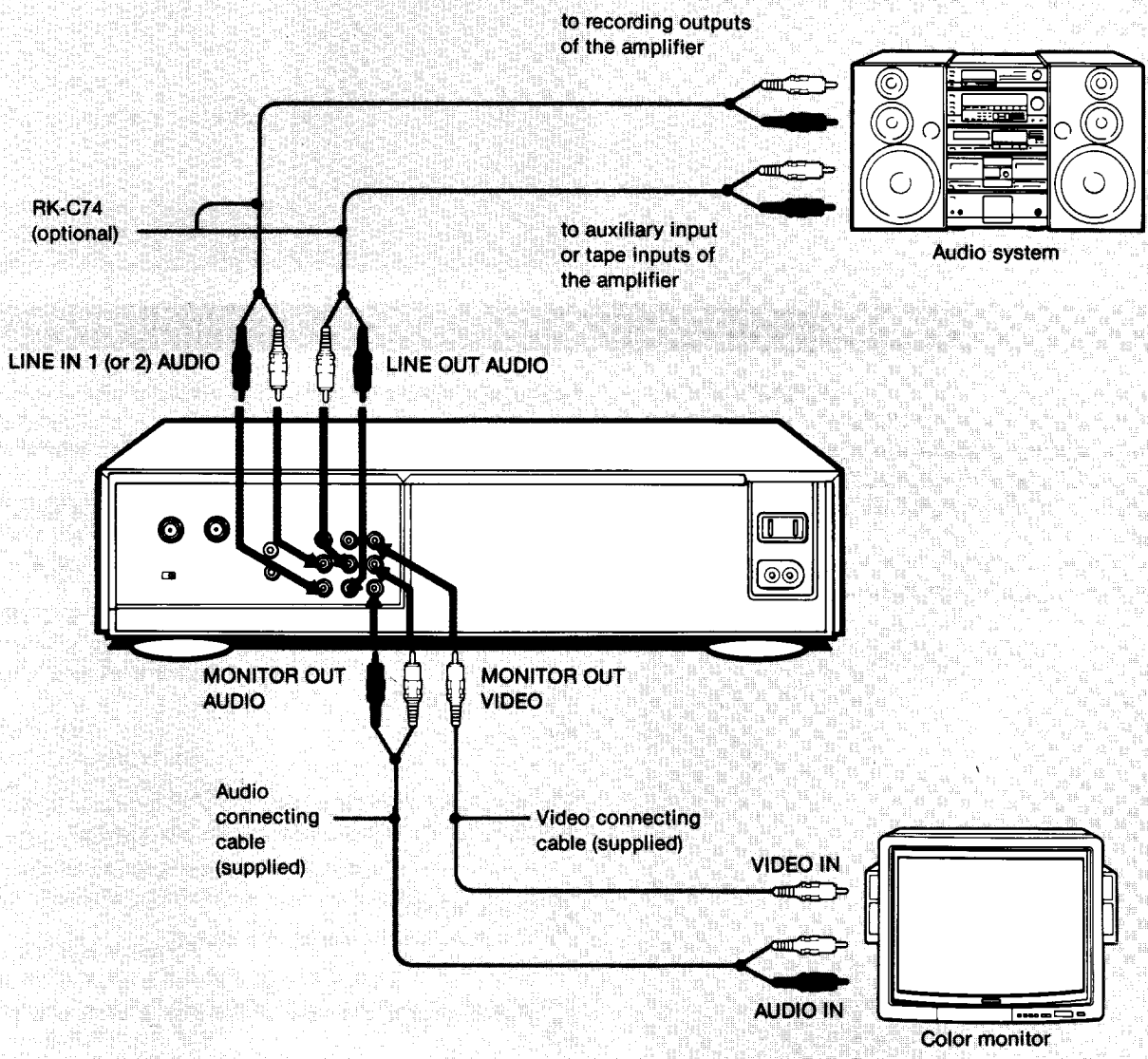
- 1 Set the RF UNIT at the rear to 3 CH or 4 CH, whichever is not active in your area.
- 2 Press POWER. The indicator will light.
- 3 Press TV/VTR so that the VTR indicator lights.
- 4 Check that the TUNER indicator appears in the display window, then select an active channel in your area by pressing CHANNEL +/-.
- 5 Turn on the TV and set the TV to either VHF channel 3 or 4 whichever was set on to the RF UNIT setting. The TV program selected on the VCR will be displayed on the TV screen.

Your TV is now tuned to the VCR. Whenever you use the VCR, set the TV to the channel selected above.

**Note**

For details about TV channel adjustment see the instruction manual of the TV.

**Connecting Example 7  
To Connect an Audio System**



You can enjoy tapes recorded in hi-fi stereo when the VCR is connected to your audio system.

**Notes**

- If the VCR is installed near a tuner or a radio, noise may be heard in AM reception. In this case, move 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.
- Since a hi-fi recorded tape has a wide dynamic range, turn down the volume on the amplifier before playing back the tape to avoid damaging the speakers.
- Before connecting or disconnecting the power cord of the VCR, be sure to turn off the connected amplifier.

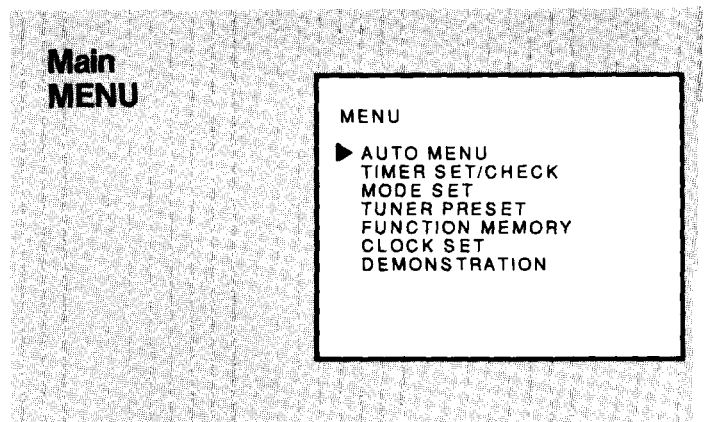
## About the Menu Display

The SLV-757UC is equipped with a menu display function. Menu display enables you to perform certain operations which are displayed on the TV or the monitor.

First display the main MENU, and select the item to be operated or preset.

### Note

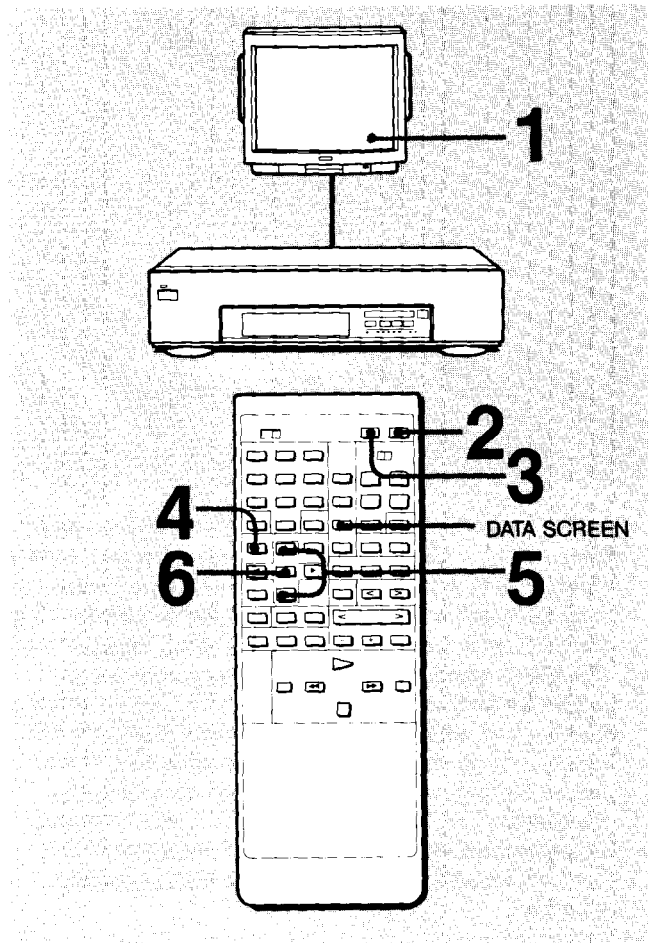
The position of the cursor is stored unless the power plug is disconnected.



## How to Display the Main MENU

### Before you begin

- Check the connection between the VCR and the TV.
- If your TV is equipped with video/audio input jacks, connect them to the MONITOR OUT on the VCR for on-screen display. On-screen display is obtained from VHF/UHF OUT or MONITOR OUT, not from LINE OUT jacks.



### Operation

- 1 Turn on the TV.  
If your TV is equipped with video/audio input jacks  
Select the input for the VCR.  
If your TV is not equipped with video/audio input jacks  
Select the channel for the VCR (3 or 4).
- 2 Press **POWER**.
- 3 Press **ANT TV/VTR** so that the VTR indicator lights.  
(Only for TV without video/audio input jacks.)
- 4 Press **MENU**.  
The main MENU display will appear.
- 5 Move cursor to the desired menu by **▲** or **▼** button.
- 6 Press **EXECUTE**.  
The selected MENU display will appear.

**To erase MENU display**  
Press **MENU** again.

**To display another MENU display**  
1 Press **MENU** to erase the present display.  
2 Press **MENU** again to display main MENU.  
3 Move cursor to the desired menu.  
4 Press **EXECUTE**.

## About Each MENU

Here is a list of the menus that can be selected from the main MENU.

For details, refer to the sections indicated.

### AUTO MENU

Select the desired automatic tape operation.

See "Presetting the VCR's Operation." (page 32)

### TIMER SET/CHECK

Preset the timer recording and check the contents.

See "Timer Recording." (page 46)

### MODE SET

Set the desired mode.

See "Mode Setting." (page 22)

### TUNER PRESET

Preset the active channels in your area.

See "Presetting Active Channels." (page 26)

### FUNCTION MEMORY

Set the desired automatic tape operation.

With one press of the **FUNCTION MEMORY** button, the tape operation will start.

See "Presetting the VCR's Operation." (page 33)

### CLOCK SET

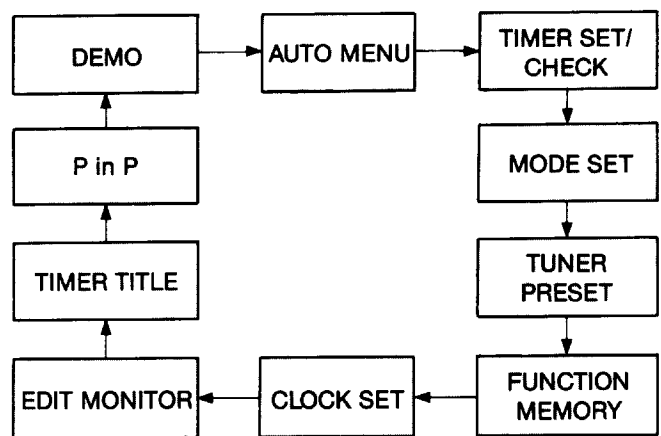
Set the clock.

See "Date and Clock Setting." (page 24)

### DEMONSTRATION

Select DEMONSTRATION to display the contents of each MENU and an example of TIMER TITLE one after the other.

The display sequence is as follows:



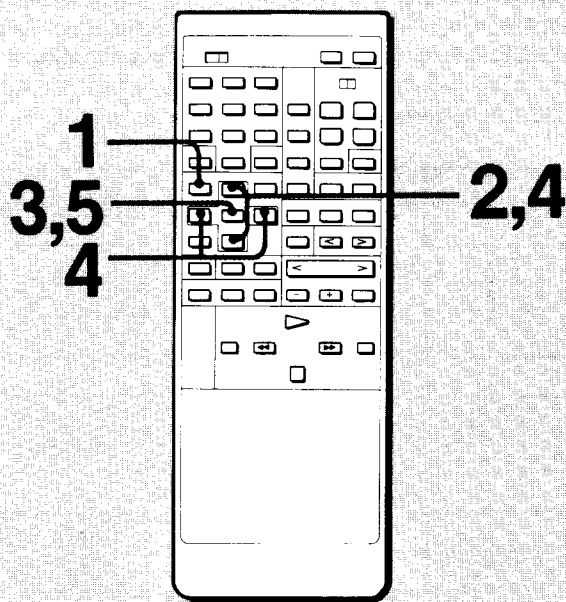
Press any key except **EXECUTE** to get out of the DEMONSTRATION display.

# Mode Setting

Before operation you need to select the Mode setting.

## Operation

Use ▲ and ▼ to move cursor.  
Use ► and ◀ to select items.



**1** Press **MENU**.  
Main MENU will appear.

**2** Move cursor to **MODE SET**.

MENU  
AUTO MENU  
TIMER SET/CHECK  
▶MODE SET  
TUNER PRESET  
FUNCTION MEMORY  
CLOCK SET  
DEMONSTRATION

**3** Press **EXECUTE**.  
MODE SET menu will appear.

MODE SET  
▶AUTO ANT SEL   •ON OFF  
AUTO STEREO   •ON OFF  
AUDIO MIX       •ON OFF  
TIMER TITLE     •ON OFF  
TIMER REC-REW   ON OFF  
NORMAL AUDIO   •MAIN SAP  
BACK COLOR     •BL GR PK  
LANC MODE       M   •S

## 4 Select the desired setting for each mode.

### 1 AUTO ANT SEL (Automatic Antenna Selector)

ON: Automatically displays the playback picture of the VCR on the screen when a tape is played back.

OFF: The picture on the TV screen is changed by pressing **ANT TV/VTR**.

#### If your TV is not equipped with video/audio inputs

Normally set to ON.

##### — To view the picture played back or recorded on the VCR:

Press **ANT TV/VTR** to light the VTR indicator. In the ON setting, the VTR indicator will automatically be lit when playing back a tape.

##### — To watch TV programs:

Press **ANT TV/VTR** to turn off the VTR indicator and select the desired program on the TV.

#### If your TV is equipped with video/audio inputs

Set to OFF to easily select the VCR's playback picture on the TV.

##### — To view the picture played back or recorded on the VCR:

Select video input on the TV to view higher quality picture.

##### — To watch TV programs:

Press **ANT TV/VTR** to turn off the VTR indicator and select the desired program on the TV.

### 2 AUTO STEREO

For details, see "To Record Multichannel TV Sound (MTS) Broadcasts (Stereocasts)." (page 42)

### 3 AUDIO MIX

Usually set to **OFF**.

For details, see "Selecting the Monitor Sound." (page 31)

### 4 TIMER TITLE

For details, see "Timer Recording". (page 48)

### 5 TIMER REC-REWIND

For details, see "Timer Recording". (page 48)

### 6 NORMAL AUDIO

When you want to record the main sound on the normal audio track, select **MAIN**.

When you want to record the SAP sound on the normal audio track, select **SAP**.

For details, see "To Record SAP (Second Audio Program) Broadcast." (page 43)

### 7 BACK COLOR

Select the desired background color on the screen when no picture is shown.

BL. . . . blue

GR. . . . green

PK. . . . pink

### 8 LANC MODE

For synchronized editing by controlling with this unit, set to **M**.

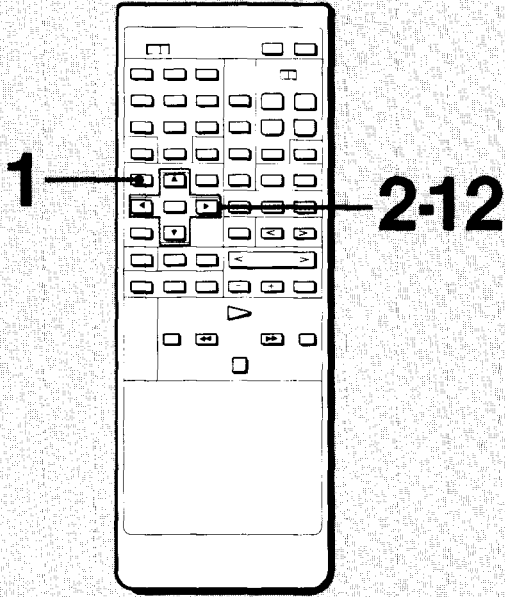
Set to **S** when you use an editing controller such as a Sony RM-E300.

## 5 Press EXECUTE to return to the original screen. The settings will be memorized.

# Date and Clock Setting

You can set the date and clock on the TV screen with the Remote Commander.  
For example: It is December 26, 1989, 3:32 PM.

Use ▲ and ▼ to change the numbers  
Use ► and ◀ to change the blinking position



**1** Press **MENU**.

```
MENU
▶AUTO MENU
TIMER SET/CHECK
MODE SET
TUNER PRESET
FUNCTION MEMORY
CLOCK SET
DEMONSTRATION
```

**2** Move cursor to **CLOCK SET**.

```
MENU
AUTO MENU
TIMER SET/CHECK
MODE SET
TUNER PRESET
FUNCTION MEMORY
▶CLOCK SET
DEMONSTRATION
```

**3** Press **EXECUTE**.  
"1/1 1989 SUN AM 12:00" will be displayed. The month will be blinking.

```
CLOCK SET
1/1/1989 SUN AM12:00
```

**4** Press ▲ until 12 appears in the month position.

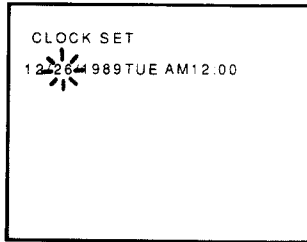
```
CLOCK SET
12/1/1989 FRI AM12:00
```

**5** Press ► to make the day blink.

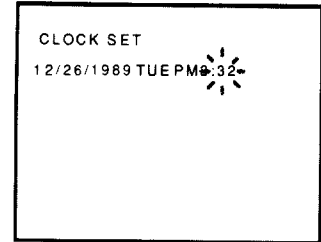
```
CLOCK SET
12/26/1989 FRI AM12:00
```



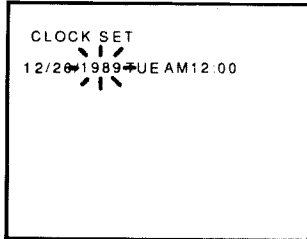
**6** Press ▲ until 26 appears in that position.



**11** Press ▲ or ▼ until 32 appears in the minute position.



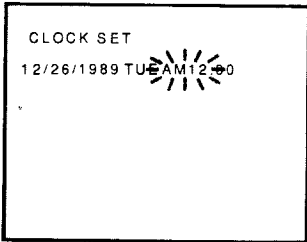
**7** Press ► to make the year blink and press ▲ to change the year if necessary.



**12** Press EXECUTE to return to the original screen. (For accurate setting, press EXECUTE at the same time with an announced time signal.)

To obtain the clock display, select CLOCK SET on the MENU display and press EXECUTE.

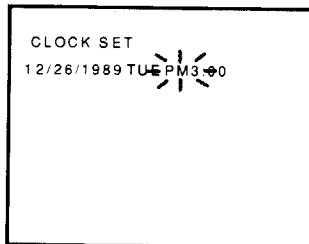
**8** Press ► to make the hour blink.



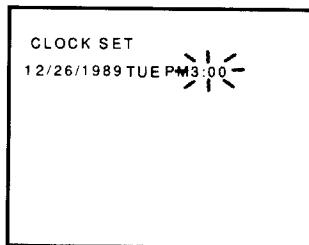
**Notes**

- You can perform clock setting except during timer recording, timer recording stand-by, quick timer recording.
- When you call up the CLOCK SET display, the clock keeps running and as long as the time is not changed. The seconds will not be reset to 00 when you return to the original screen.

**9** Press ▲ or ▼ until PM 3: appears.



**10** Press ► to make the minute blink.



# Presetting Active Channels

You can preset the tuning of the SLV-757UC for VHF/UHF channels 2 to 69 and CATV channels 1 to 125.

You can preset these channels on the TV screen with the Remote Commander.

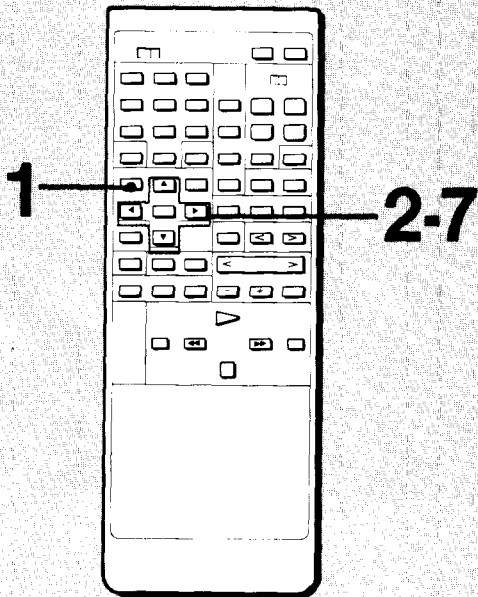
First, we recommend that you perform the automatic presetting. If there are unwanted channels, erase them manually. If you already know which channels to be preset, preset them manually.

## Before Presetting Channels

- Make sure that the TV is connected to the **MONITOR OUT** jacks of the VCR. If the TV is connected to the **LINE OUT** jacks, on-screen display cannot be obtained.
- Turn on the VCR and the TV.
- If your TV is not equipped with video/audio input jacks, make sure that the TV is set to the correct channel (3 or 4) for the VCR and press **ANT TV/VTR** to display the VTR indicator.
- Press **INPUT SELECT** so that the **TUNER** indicator and channel number appear in the display window.
- If your TV is equipped with video/audio input jacks, make sure that the video input is selected on the TV.

## To Preset All Receivable Channels Automatically

Use ▲ and ▼ to move cursor.  
Use ► and ◀ to select items.



**1** Press **MENU**.

```
MENU
▶ AUTO MENU
  TIMER SET/CHECK
  MODE SET
  TUNER PRESET
  FUNCTION MEMORY
  CLOCK SET
  DEMONSTRATION
```

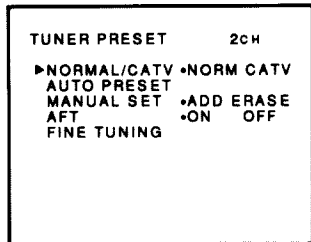
**2** Move cursor to **TUNER PRESET**.

```
MENU
  AUTO MENU
  TIMER SET/CHECK
  MODE SET
  ▶ TUNER PRESET
  FUNCTION MEMORY
  CLOCK SET
  DEMONSTRATION
```

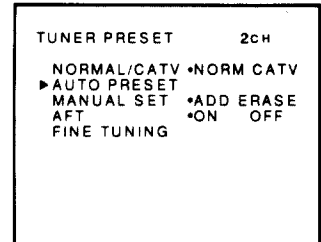
**3** Press **EXECUTE**.  
The **TUNER PRESET** display will appear.

```
TUNER PRESET      2CH
NORMAL/CATV  •NORM CATV
AUTO PRESET
▶MANUAL SET  •ADD ERASE
AFT          -ON   OFF
FINE TUNING
```

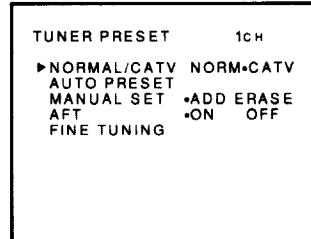
**4** Move cursor to NORMAL/CATV.



**6** Move cursor to AUTO PRESET.

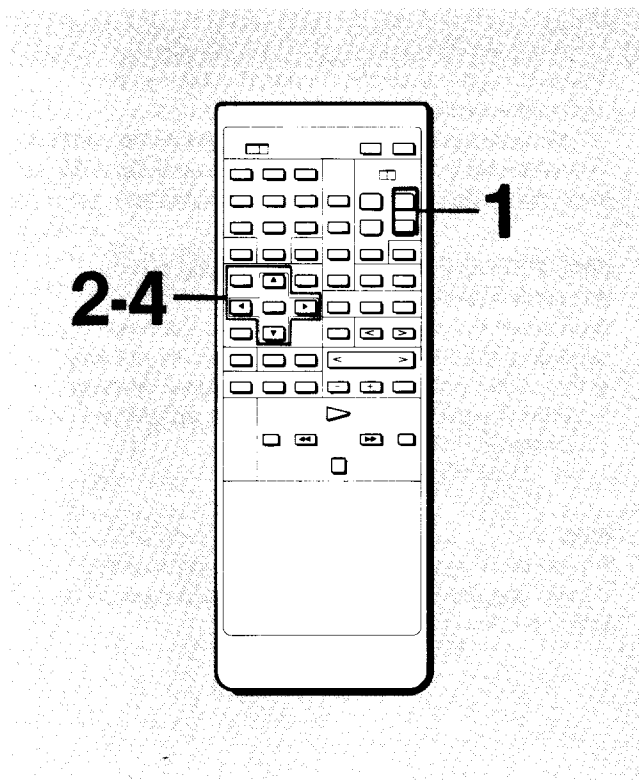


**5** Select NORM to preset VHF and UHF channels. Select CATV to preset cable TV channels. The lowest channel number will appear.  
NORM: 2  
CATV: 1



**7** Press EXECUTE. Receivable channels will be preset in numerical sequence. When no more channels can be found, the presetting will stop and lowest numbered channel will be displayed.

**To Preset Only Specific Channels or to Erase Unnecessary Channels**



**1** After automatic presetting is over press CHANNEL +/- or channel number and ENTER to select the channel to be added or erased.

**2** Follow steps 1 to 3 in "To Preset All Receivable Channels Automatically."

**3** To add channels . . . . . Select ADD.  
To erase channels . . . . . Select ERASE.

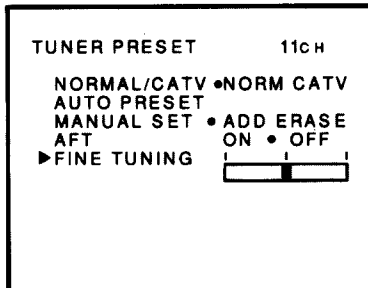
**4** Press EXECUTE. When pressing CHANNEL +/-, the erased channel will be skipped and the added channel will be displayed.

## Fine-tuning

Normally the AFT (Auto Fine Tuning) function works and the AFT setting is set to ON. If the picture of a particular channel is not acceptable, fine-tune manually.

### Operation

- 1 Follow the steps 1 to 3 on page 26.
- 2 Move cursor to FINE TUNING. The fine tuning indicator will appear.



- 3 Fine-tune with ► or ◀ to get a clear picture. If you cannot get a better picture, select ON on the AFT.
- 4 Press EXECUTE.

### About the FINE TUNING indicator

The FINE TUNING indicator shows the operable extent of the fine tuning.

When the VCR is receiving a broadcast in the best condition, the indicator will be at the center or one space right or left of the center.

Even if the VCR is receiving the broadcast in the best condition, it may happen that the indicator is not at the center.

When the VCR is receiving input signal from a video game, the indicator may not be at the center even though the VCR is receiving it in the best condition.

### Cable TV channel assignment

Cable TV systems use letters or numbers to designate the channels. To tune-in a CATV channel, refer to the chart below which shows the CATV channel numbers on this VCR and the corresponding CATV channel. Note that the channel number assignment shown in the chart may not correspond to the channel number used by your local cable company. Check with your local cable TV company for more information on the available channels.

Number on this VCR	1	2	...	13	14	15	16	17	18				
Corresponding CATV channel	A-8	2	...	13	A	B	C	D	E				
19	20	21	22	23	24	25	26	27	28	29	30	31	32
F	G	H	I	J	K	L	M	N	O	P	Q	R	S
33	34	35	36	37	...	94	95	96	97	98	99		
T	U	V	W	W+1	...	W+58	A-5	A-4	A-3	A-2	A-1		
100	...	125											
W+59	...	W+84											

This VCR is designed to correspond to the Standard cable system. However, the cable TV services may vary from area to area. Your local cable TV company may be either the HRC<sup>\*1</sup> or IRC<sup>\*2</sup> cable system. Even in these cases, this VCR is capable of receiving either of these cable systems in the best condition.

#### \*1 HRC (Harmonic Related Carriers)

All channels except for 5 and 6 are 1250 kHz lower than the Standard cable system. Channel 5 and 6 are 750 kHz higher than the Standard cable system.

#### \*2 IRC (Incremental Related Carriers)

All channels except for 5 and 6 are the same as the Standard cable system. Channels 5 and 6 are 2000 kHz higher than the Standard cable system.

#### FINE TUNING indication when receiving HRC or IRC cable systems

Even when the signals are received in the best condition, the FINE TUNING indicator will not stay at the center position for channels higher or lower than the Standard cable system because of the difference in the frequency.

#### Note

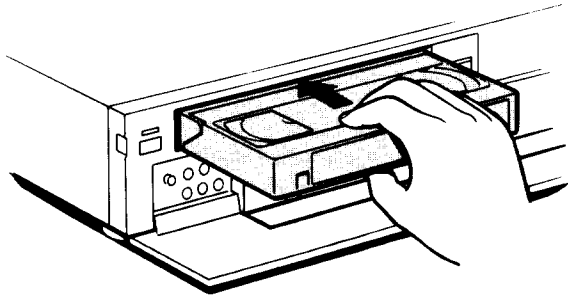
Pay cable TV systems use scrambled or encoded signals and require special converters (decoders) in addition to the normal cable connection.

# Handling Video Cassettes

## Inserting a Cassette

Insert a cassette fully into the compartment by slowly pressing its center with the arrow indication facing upwards.

Even if the power is turned off, the power will be automatically turned on.



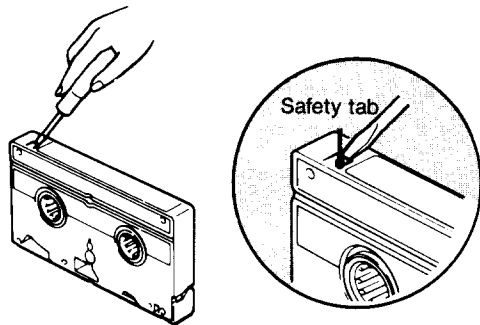
## Ejecting a Cassette

Press **EJECT** to eject the cassette. As long as the AC power cord is connected to the wall outlet, the cassette can be ejected even when the power of the unit is turned off. After the ejection, the power will be automatically turned off.

## To Avoid Erasing Previously Recorded Video Contents

When a new recording is made on a previously recorded cassette, the previous recording will be automatically erased. To avoid unintentional erasure of previously recorded video sources, break off the safety tab on the cassette.

To re-record on the cassette, cover the slot where the safety tab used to be located with plastic tape.



## Maximum Recording Time of a Tape

Recording in the SP or EP mode is possible with this VCR.

When recording, select the desired recording time (SP or EP) with **REC MODE** on the Remote Commander or the unit.

During playback, the unit automatically detects the recording format, and then plays it back in the appropriate mode.

An SP Tape runs three times as fast as an EP tape does. In playback mode, LP mode is possible. But you cannot record in LP mode.

Refer to the chart below for the recording/playback time available in each mode.

REC MODE setting	Cassette tape			
	T-160	T-120	T-60	T-30
SP (standard)	2 hr. 40 min.	2 hr.	1 hr.	30 min.
EP	8 hr.	6 hr.	3 hr.	1 hr. 30 min.

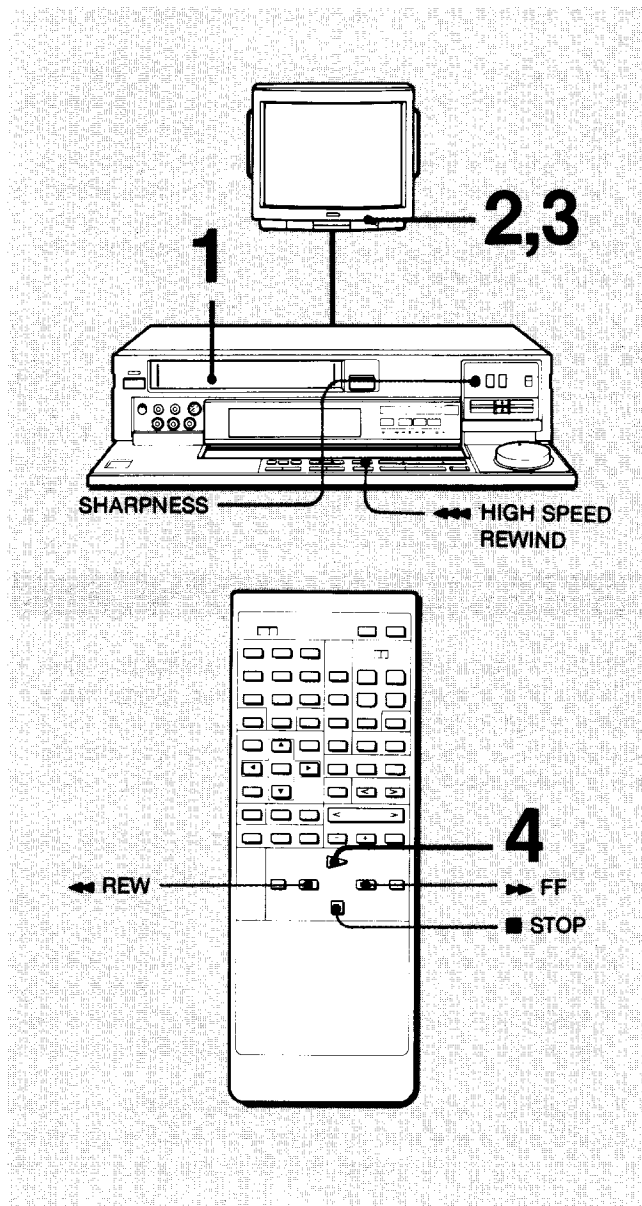
## Tapes Recorded in LP Mode

Playback of tapes recorded in LP mode is also possible with this VCR. However, playback in modes other than normal speed forward is not guaranteed. Note that recording in LP mode is not possible. Also, note that the **AUTO TRACKING** function will not work.

# Playing a Tape

In this section, we will explain some operations and functions relating to tape playback.

## Basic Playback



**1** Insert a cassette.

**2** Turn on the TV.

**3** If your TV is equipped with video/audio input jacks  
Select the input for the VCR.  
If your TV is not equipped with video/audio input jacks  
Select the channel for the VCR (3 or 4).

**4** Press ► PLAY.

**To stop playback**  
Press ■ STOP.

**To advance the tape rapidly**  
Press ►► FF.

**To rewind the tape**  
Press ◀◀ REW.

**To rewind the tape at high speed**  
Press ◀◀◀ HIGH SPEED REWIND.

**To get a sharper picture**  
Turn the SHARPNESS control toward SHARP.

**To get a softer picture**  
Turn the SHARPNESS control toward SOFT.

**When the tape is played back to the end**  
The tape is automatically rewound to the beginning (auto rewind). The power remains on.

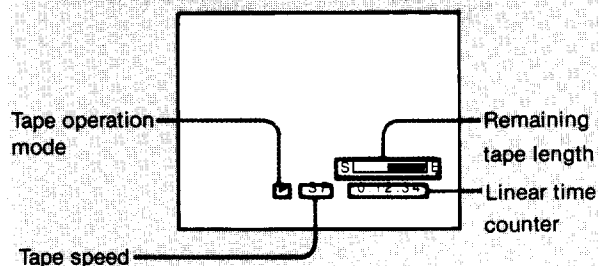
## About the Data Screen

To erase the data screen from the screen, press DATA SCREEN on the Commander. Press again to resume it.

### Notes on the Remaining Tape Length Indicator

The displayed remaining tape length is not precise. Therefore, use it only as an approximate reference. When you insert a short tape such as T-20, T-30 or a nonstandardized commercially available tape, this indicator may not function correctly.

### Data Screen



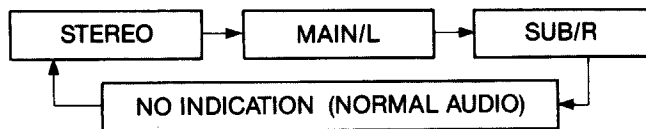
## Selecting the Monitor Sound

You can play back tapes on which stereo sound programs or dual sound programs are recorded on the VCR.

### Note

When you play back a tape recorded in monaural, the sound will be monaural. The **AUDIO MONITOR** button will not function.

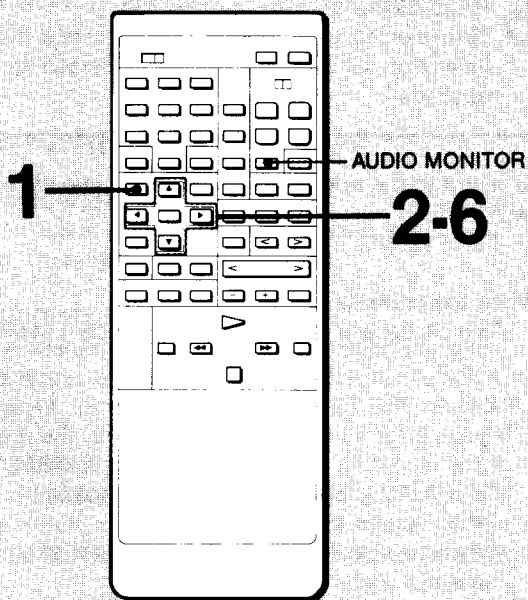
Each press of the **AUDIO MONITOR** button on the Commander changes the display as follows.



	Display	Sound you hear
		stereo program recorded tapes
To listen to hi-fi track	STEREO MAIN/L SUB/R	stereo left channel right channel
To listen to normal track	No indication	sound recorded on normal track (SAP)

## To listen to the original sound and the after-recorded sound simultaneously. . . . AUDIO MIX

Use ▲ and ▼ to move cursor.  
Use ► and ◀ to select items.



### Note

When you select ON in the AUDIO MIX menu, **AUDIO MONITOR** button will not function. Return to OFF after listening to the sound in MIX mode.

**1** Press **MENU**.  
Main MENU will appear.

```

MENU
AUTO MENU
TIMER SET/CHECK
▶MODE SET
TUNER PRESET
FUNCTION MEMORY
CLOCK SET
DEMONSTRATION
  
```

**2** Move cursor to **MODE SET**.

**3** Press **EXECUTE**.  
MODE SET display will appear.

```

MODE SET
▶AUTO ANT SEL  *ON OFF
AUTO STEREO   *ON OFF
AUDIO MIX     *ON OFF
TIMER TITLE   *ON OFF
TIMER REC-REW *ON OFF
NORMAL AUDIO  *MAIN SAP
BACK COLOR    *BL GR PK
LANC MODE     M *S
  
```

**4** Move cursor to **AUDIO MIX**.

**5** Select **ON**.

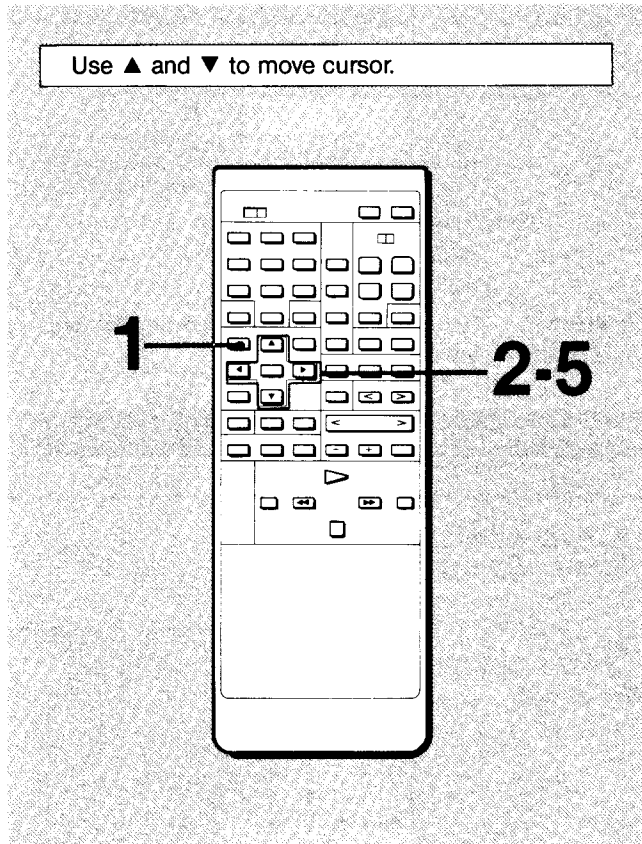
```

MODE SET
AUTO ANT SEL  *ON OFF
AUTO STEREO   *ON OFF
▶AUDIO MIX     *ON OFF
TIMER TITLE   *ON OFF
TIMER REC-REW *ON OFF
NORMAL AUDIO  *MAIN SAP
BACK COLOR    *BL GR PK
LANC MODE     M *S
  
```

**6** Press **EXECUTE** to return to the original screen.

Presetting the VCR's Operation — AUTO MENU

By selecting the desired tape operation combination and pressing **EXECUTE**, a tape operation of several steps will start automatically.



**1** Press **MENU** when the tape is in stop mode. Main MENU will appear.

**2** Move cursor to AUTO MENU.

**3** Press **EXECUTE**. AUTO MENU display will appear.

AUTO MENU

- ▶PLAY-REW-POWER OFF
- GO TO ZERO-STOP
- GO TO ZERO-PLAY
- GO TO REC START-PLAY
- REW-POWER OFF
- REW-EJECT-POWER OFF
- REW-PLAY
- REW-TIMER REC

**4** Move cursor to the desired tape operation.

**5** Press **EXECUTE**. The selected tape operation will start and the indication will be displayed on the screen for several seconds.

**To return to the original screen without selecting from the AUTO MENU**

Press **MENU**.

**When the power is turned off**

The cursor will remain in its most recent position.

**Note on "GO TO REC START-PLAY"**

If you perform the following operations, the memory of the recording start position will be erased and "GO TO REC START-PLAY" is not operable.

- When you press **COUNTER RESET**.
- When you eject the cassette and insert another cassette again.
- When you press **◀◀ HIGH SPEED REWIND**.

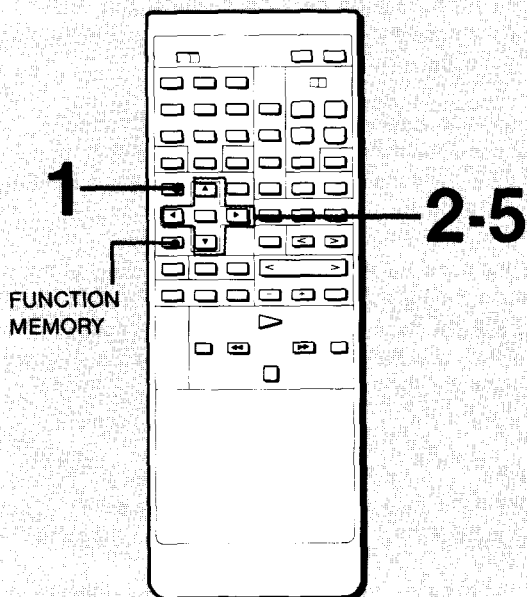
**Note on REW-EJECT-POWER OFF**

If the VCR is installed into the video rack and the door of the rack is closed, the cassette may not be ejected. Turn off the power to stop operation.



**To memorize a tape operation and execute it automatically by pressing only one button — FUNCTION MEMORY**

Use ▲ and ▼ to move cursor.



**Note on FUNCTION MEMORY**

The FUNCTION MEMORY function is operable only when the tape is in stop mode.

**1** Press **MENU**.  
Main MENU will appear.

**2** Move cursor to **FUNCTION MEMORY**.

**3** Press **EXECUTE**.  
**FUNCTION MEMORY** display will appear.

**FUNCTION MEMORY**

PLAY-REW-POWER OFF  
GO TO ZERO-STOP  
GO TO ZERO-PLAY  
GO TO REC START-PLAY  
REW-POWER OFF  
REW-EJECT-POWER OFF  
REW-PLAY  
▶[AUTO MENU]

**4** Move cursor to the desired tape operation

**5** Press **EXECUTE** to return to the original screen.

Whenever you press **FUNCTION MEMORY** on the Commander, the memorized tape operation will automatically start.

**What does each operation indicator mean?**

**PLAY-REW-POWER OFF**

The tape is played back to its end and rewind to its beginning. Then the power is turned off.

**GO TO ZERO-STOP**

The tape is fast-forwarded/rewound to around the zero counter position, and stops. See "Tape Return/Tape Return Play" (page 44) for detailed operation.

**GO TO ZERO-PLAY**

The tape is fast-forwarded/rewound to around the zero counter position, and is played back. See "Tape Return/Tape Return Play" (page 44) for detailed operation.

**GO TO REC START-PLAY**

The tape is fast-forwarded/rewound to the starting point of the recording, and is played back.

**REW-POWER OFF**

The tape is rewind to its beginning and the power is turned off.

**REW-EJECT-POWER OFF**

The tape is rewind to its beginning, and the cassette is ejected. Then the power is turned off.

**REW-PLAY**

The tape is rewind to its beginning and is played back.

**REW-TIMER REC**

The tape is rewind to its beginning and the VCR enters the standby mode for timer recording. This function is possible only when a timer recording has been already preset.

**[AUTO MENU]**

The AUTO MENU will be displayed immediately after FUNCTION MEMORY is pressed, providing a short cut to the AUTO MENU.

### Various Playback Modes

#### To obtain a still picture

During playback mode press **||/▶ PAUSE/STILL** on the VCR or **|| PAUSE** on the Commander.

To return to normal playback, press **▶ PLAY** or **||/▶ PAUSE/STILL** or **|| PAUSE**.

When the pause mode lasts for more than 5 minutes, the VCR will re-enter the playback mode automatically.

#### To search for a particular scene — Picture search

During playback mode, press **◀ REW**, or **▶▶ FF**.

While the button is pressed, a high speed picture without sound will appear on the TV screen.

When the button is released, the VCR will return to the previous mode.

#### To search for a particular scene — Locked picture search

During the playback mode, press **⊞ SEARCH** or **⊞ SEARCH** on the Commander.

A high speed picture in forward or reverse will appear on the screen even when the button is released. To resume normal playback, press **▶ PLAY**.

#### To watch a slow motion playback

During playback mode, press **▶ SLOW** on the Commander.

**+**: To increase the speed

**-**: To slower the speed

Or use **SHUTTLE RING**.

#### To view the picture momentarily while the VCR is in the fast forward or rewind mode without picture on the TV screen

During fast-forward mode, press **▶▶ FF**.

During rewind mode, press **◀◀ REW**.

The high speed playback picture can be seen while the button is pressed. Release the button to return to the previous mode.

#### To view a playback picture at 2 times the normal speed

During playback mode, press **×2** on the Commander.

Press **▶ PLAY** to resume normal play back.

#### To view reverse direction playback, slow and ×2 picture

During forward playback of the desired mode, press **< DIRECTION** on the Commander. Press **▶** or **>** to resume forward playback.

#### To watch a frame-by-frame picture

During still mode, press **> DIRECTION** to advance the picture one frame. Press **<** to reverse the picture one frame. Each press of **</>** will move the picture one frame. Press **▶ PLAY** to resume normal play back.

#### If streaks or noise bands appear in a slow motion picture

Adjust **TRACKING NORMAL/SLOW** and **STILL ADJUST** on the inside front panel of the VCR.

### How to Adjust the Picture Manually in Various Playback Modes

#### If streaks or noise appear in a slow motion picture

Adjust the **TRACKING NORMAL/SLOW** and **STILL ADJUST** button inside the front panel of the VCR.

You can adjust the picture more easily at speeds closer to normal playback.

#### If the picture appears to shake in the still mode

Adjust the **TRACKING NORMAL/SLOW** and **STILL**

**ADJUST** button inside the front panel of the VCR until the picture stabilizes.

#### If a noise band appears on the top or bottom of the picture in the still mode

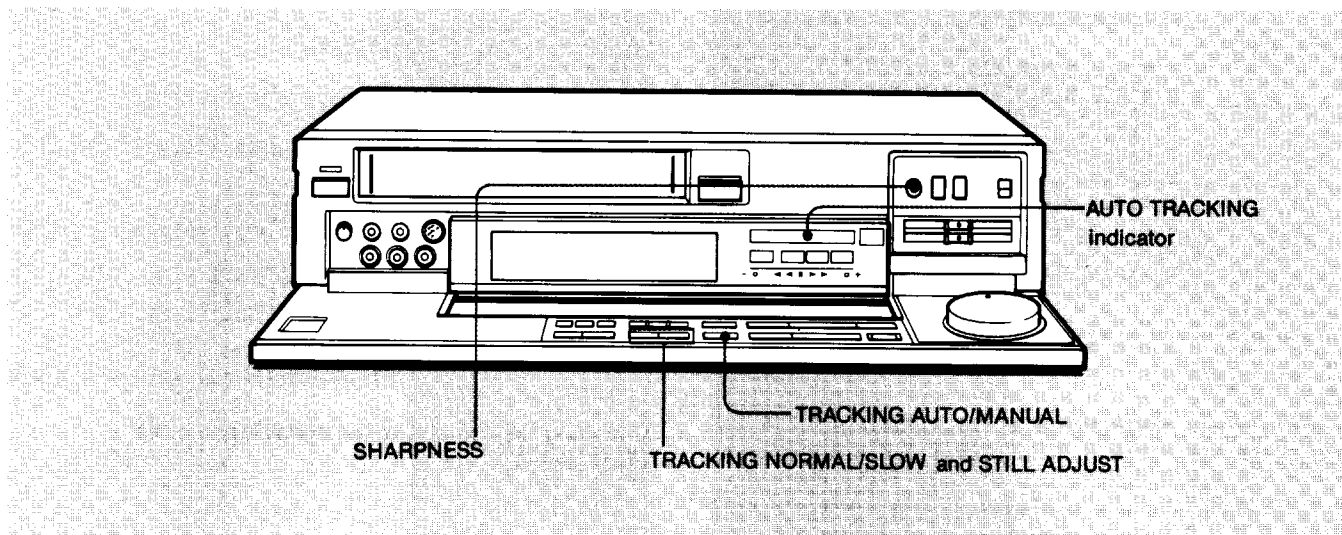
Change to the slow motion mode, and then adjust the **TRACKING NORMAL/SLOW** and **STILL ADJUST** control inside the front panel of the VCR.

#### Notes

- When the tape recorded in the LP mode is played back in various playback modes, the noise may appear.
- Streaks or noise cannot be eliminated completely in the reverse direction playback or in the reverse slow mode.

## Playing Back a Tape Recorded on Another VCR

When playing back a tape recorded on another VCR, we recommend that you make some adjustments to obtain a better picture.



### To get a sharper picture

Turn the **SHARPNESS** control toward **SHARP**.

### To get a softer picture

Turn the **SHARPNESS** control toward **SOFT**.

### Usually automatic tracking function adjusts the picture (The **AUTO TRACKING** indicator lights).

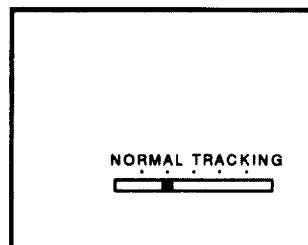
The **AUTO TRACKING** function works in the following cases

- A tape is played back for the first time.
- Tape speed (EP, SP) changes.
- Streaks or snow appear because of scratches on the tape.
- **TRACKING AUTO/MANUAL** was pressed after manually adjusting the tracking.

#### Notes

- Auto tracking adjustment may be impossible and the tracking indicator will not appear on the TV screen when the recording condition of the tape is poor.
- During auto tracking adjustment, streaks or noise may appear.
- If the TV or color monitor is not connected to the VHF/UHF OUT connectors or the MONITOR OUT AUDIO/VIDEO jacks, on-screen display cannot be obtained.
- When **DATA SCREEN** on the Commander is pressed, the tracking indicator will not appear on the TV screen.
- Auto tracking adjustment is not possible on the tapes recorded in LP mode.

### If streaks or snow appear during normal playback



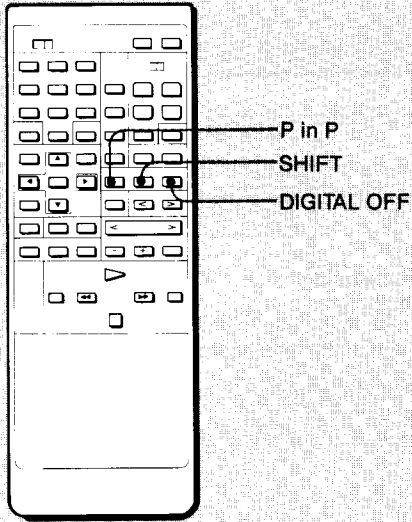
### Adjust the picture with **TRACKING NORMAL/SLOW** and **STILL ADJUST**.

The tracking indicator will appear on the TV screen and the **AUTO TRACKING** indicator on the VCR will be turned off.

Then press either **▼** or **▲** to get the best possible picture.

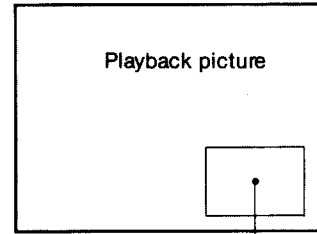
Press two **TRACKING ▼/▲** buttons simultaneously to get the tracking center condition.

Inserting Another Subsidiary Picture in the Playback Picture — P in P



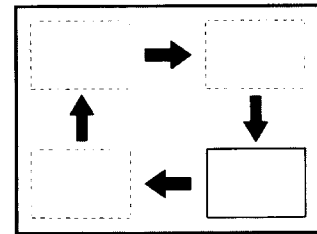
Press **P in P** during playback.

When the **TUNER** is selected with **INPUT SELECT**, the TV picture can be viewed in the subsidiary screen.

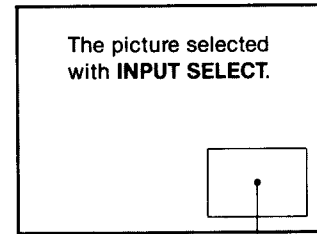


Subsidiary picture  
(The picture selected with **INPUT SELECT**)

**Changing the position of the subsidiary picture**  
Press **SHIFT**.



**Inverting the position of the subsidiary picture**  
Press **P in P** again.



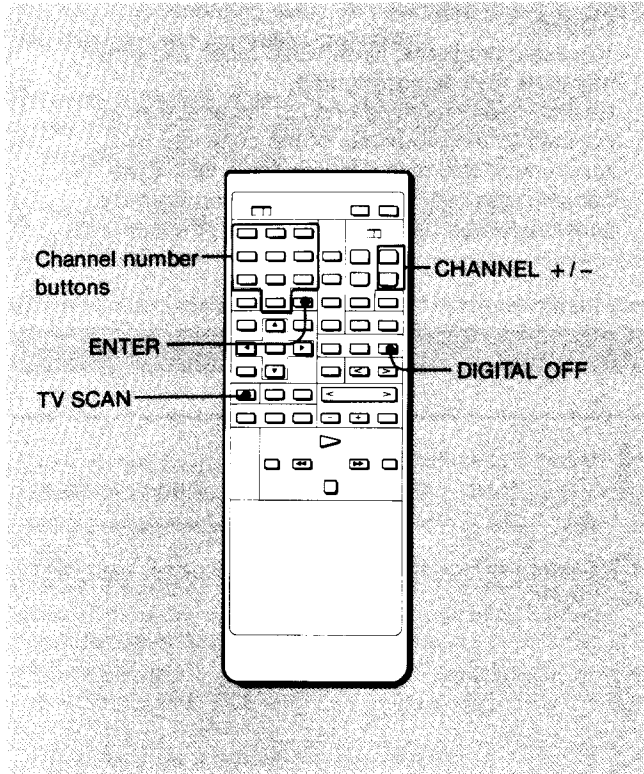
Subsidiary picture  
(Playback picture)

**Turning off the subsidiary picture**  
Press **DIGITAL OFF**.

**Note**

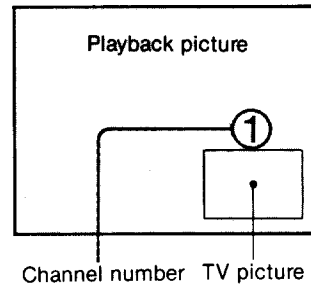
When the playback picture is displayed in the main screen, if the no recorded portion is played back at speed except the normal one, the subsidiary picture will not be displayed.

## Watching TV Channel in Succession — TV Scan



You can watch each TV channel for a few seconds in the preset order during playback.

Press **TV SCAN** during playback.



After all the preset channels are displayed, the first preset channel will appear again.

### **Watching the desired channel in the subsidiary screen**

Press the channel number button and **ENTER** or **CHANNEL +/-**.

### **Turning off the subsidiary picture**

Press **DIGITAL OFF**.

# Recording TV Programs

## Before You Begin

Before you begin recording, check the following and make sure that the VCR functions correctly.

### 1 Connections

Make sure the Connections have been made correctly.

### 2 Positions of the selectors

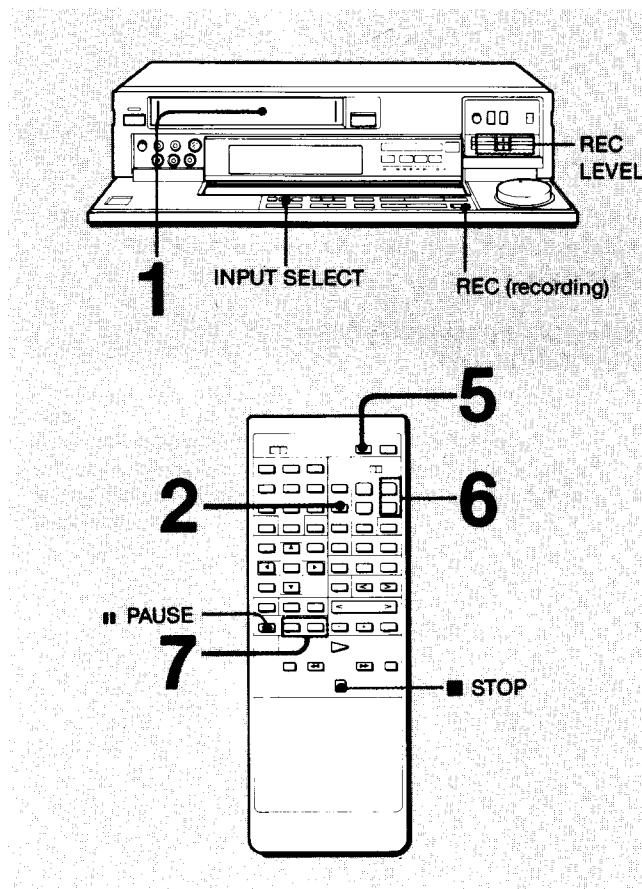
**INPUT SELECT:** TUNER (TUNER display appears in the display window.)

**REC LEVEL:** Indented center position

### 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 transmission and/or program owner.

## Operation



### To stop the recording

Press ■ **STOP**.

### To stop the tape for a moment

Press || **PAUSE**.

To resume recording, press || **PAUSE** again.

During recording, if the pause mode lasts for more than approximately 5 minutes, the VCR will enter the stop mode automatically.

- 1 Insert a cassette.  
The VCR will turn on automatically (Auto power on).
- 2 Select the recording tape speed, SP or EP, with **REC MODE**.
- 3 Turn on the TV.
- 4 If your TV is equipped with video/audio input jacks  
Select the input for the VCR.  
If your TV is not equipped with video/audio input jacks  
Select the channel for the VCR (3 or 4.)
- 5 Press **ANT TV/VTR** so that the VTR indicator lights.  
(Necessary only when the VCR and the TV are connected via the VHF antenna terminal.)
- 6 Select the channel to be recorded with **CHANNEL +/-** or channel number buttons and **ENTER**.
- 7 Press the two ● **REC** buttons simultaneously.  
(On the VCR there is only one ● **REC** button.)

### When the tape reaches its end

The tape will be rewound to the beginning and the power of the unit will remain on.

### What does the VTR indicator appearing in the display window indicate?

VTR indicator	What is shown
Lit	Channel selected by the VCR or playback picture
Unlit	Channel selected by a TV

## Temporarily Stopping Recording at a Particular Point

You can stop recording when an unwanted scene appears and then resume recording smoothly.

**1** Press **|| PAUSE** when the unwanted scene appears. Recording will stop and the VCR will enter the recording pause mode.

**2** Press **|| PAUSE** at the desired point to continue recording.

When an unwanted scene has started being recorded, you can return the tape to the start of the unwanted portion and make the VCR enter the recording pause mode.

### How to use SWING SHUTTLE

The playback speed and the direction can be selected by the turning angle and direction of **SWING SHUTTLE**.

#### When the ring is turned in the recording pause mode

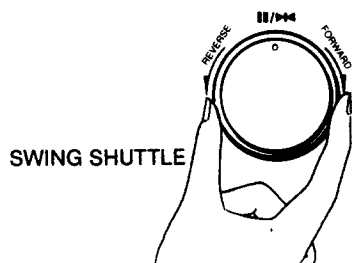
The P in P display will appear and the playback picture can be viewed in the subsidiary display.

When the ring is released, the picture will resume in the recording pause and the P in P display will be turned off.

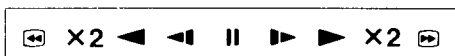
#### When the ring is turned during playback

The playback speed can be selected.

When the ring is released, the picture will freeze.



SWING SHUTTLE indicators will show the tape transport condition.



⏮: rewind, x2: double speed playback in reverse or forward, ⏪: normal speed playback in reverse, ⏩: slow speed playback in reverse, ||: still picture, ⏭: slow speed playback in forward, ⏭: normal speed playback in forward, ⏮: fast-forward

### How to use SHUTTLE EDIT on the Commander

Use the buttons in the **playback pause** or **recording pause mode**.

When the button is pressed in the recording pause mode, the P in P display will appear and the playback picture can be viewed in the subsidiary display.

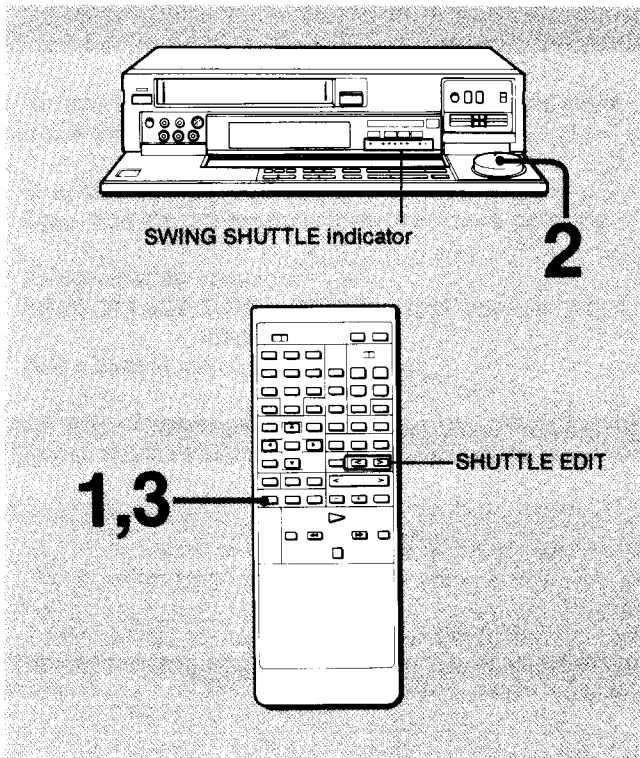
**When the < button is kept pressed:** 1/5 playback picture in reverse

**When the > button is kept pressed:** 1/5 playback picture



When the button is released, the picture will resume in the playback or recording pause mode and the P in P display will be turned off.

Continued



**How to use SWING SHUTTLE during playback or SHUTTLE EDIT in the playback pause mode**

Use this function when the new picture is recorded in the unwanted scene of the recorded tape.

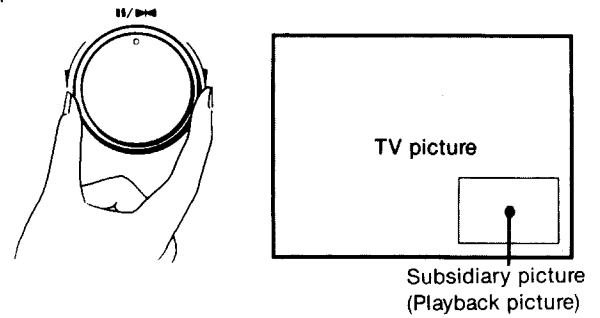
- 1 Rewind the tape at the desired scene with **SWING SHUTTLE** or **SHUTTLE EDIT**. (When **SWING SHUTTLE** or **SHUTTLE EDIT** is released, the picture will freeze.)
- 2 Press **● REC** to set the VCR in the recording pause mode.
- 3 To start recording, press **⏸ PAUSE** at the desired point.

---

**1** Set the VCR to the recording pause mode.

---

**2** Rewind the tape at the desired point with **SWING SHUTTLE** or **SHUTTLE EDIT**.  
When **SWING SHUTTLE** or **SHUTTLE EDIT** is released, the picture will resume in the recording pause mode.



---

**3** Press **⏸ PAUSE** at the desired scene.  
Recording will begin again.

---



### To Record a Program without Watching the TV

Turn off the power of the TV or color monitor.  
Recording will continue.

### Watching One TV Program While Recording Another

When the TV is connected to VHF/UHF OUT connector

- 1 Press **ANT TV/VTR** so that the VTR indicator goes off.
- 2 Select the channel you want to watch on the TV.

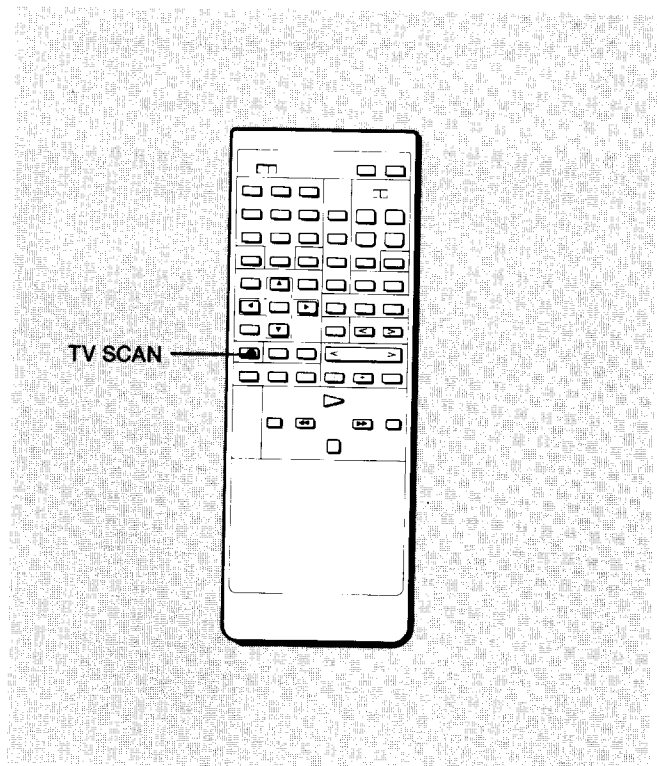
When the TV is connected to **MONITOR OUT** jacks

Select the **TUNER** position on the TV and the channel you want to watch.

#### Note

If you use a color monitor, you cannot view another program during recording unless the monitor has an internal TV tuner.

### Watching TV Channel in Succession — TV Scan



When you view the TV program, press **TV SCAN**.  
You can watch each TV channel for a few seconds in the preset order.

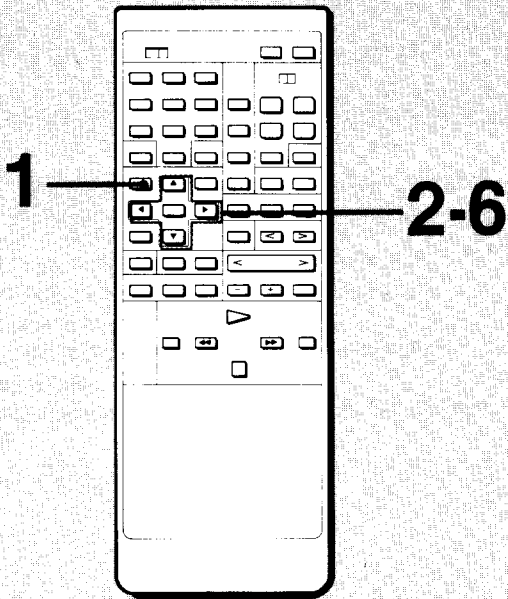
## To Record Multichannel TV Sound (MTS) Broadcasts (Stereocasts)

### To record a stereo broadcast

A stereo broadcast program is automatically recorded in stereo.

If a stereo program is noisy, do the steps below.

Use ▲ and ▼ to move cursor.  
Use ► and ◀ to select items.



**1** Press **MENU**.  
Main MENU will appear.

```
MENU
AUTO MENU
TIMER SET/CHECK
▶MODE SET
TUNER PRESET
FUNCTION MEMORY
CLOCK SET
DEMONSTRATION
```

**2** Move cursor to **MODE SET**.

**3** Press **EXECUTE**.

```
MODE SET
▶AUTO ANT SEL  •ON OFF
AUTO STEREO  •ON OFF
AUDIO MIX     •ON OFF
TIMER TITLE   •ON OFF
TIMER REC-REW ON OFF
NORMAL AUDIO •MAIN SAP
BACK COLOR   •BL GR PK
LANC MODE    M  S
```

**4** Move cursor to **AUTO STEREO**.

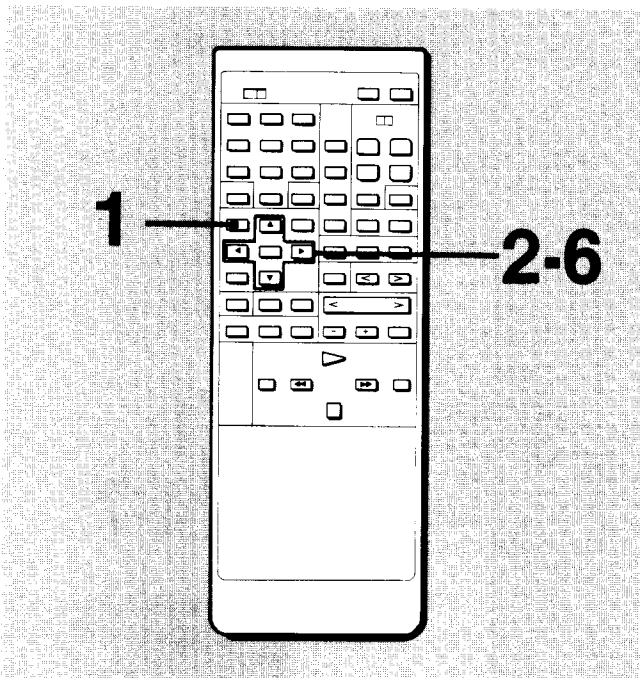
**5** Select **OFF**.

```
MODE SET
AUTO ANT SEL  •ON OFF
▶AUTO STEREO  ON OFF
AUDIO MIX     ON OFF
TIMER TITLE   •ON OFF
TIMER REC-REW ON OFF
NORMAL AUDIO •MAIN SAP
BACK COLOR   •BL GR PK
LANC MODE    M  S
```

**6** Press **EXECUTE** to return to the original screen.  
The sound will be monaural and the noise will be reduced.

## To Record SAP (Second Audio Program) Broadcast

Preset the items in the MENU display. Normally, set to MAIN. The MAIN sound will be recorded on the normal track. To record the SAP sound, operate as follows.



### Selecting MAIN or SAP in step 5

When you select MAIN	When you select SAP
You can hear only the main sound.	You can hear main or SAP sound.
<b>AUDIO MONITOR</b> is not operable.	Press <b>AUDIO MONITOR</b> to select the desired sound. The indicators in the display window are as follows. <b>STEREO</b> : stereo sound <b>SAP</b> : SAP sound <b>No indication</b> : monaural

#### Notes

- When the SAP sound is not broadcast, select MAIN in step 5. If the SAP is selected, no sound will be recorded on the normal audio track.
- When the VCR and the TV are connected via the VHF antenna terminal, you cannot hear a program in stereo.

**1** Press **MENU**.  
Main MENU will appear.

**2** Move cursor to **MODE SET**.

```

MENU
AUTO MENU
TIMER SET/CHECK
▶MODE SET
TUNER PRESET
FUNCTION MEMORY
CLOCK SET
DEMONSTRATION
    
```

**3** Press **EXECUTE**.  
**MODE SET** display will appear.

```

MODE SET
▶AUTO ANT SEL  *ON OFF
AUTO STEREO    *ON OFF
AUDIO MIX      *ON *OFF
TIMER TITLE    *ON OFF
TIMER REC-REW  ON *OFF
NORMAL AUDIO  *MAIN SAP
BACK COLOR    *BL GR PK
LANC MODE      M *S
    
```

**4** Move cursor to **NORMAL AUDIO**.

**5** Select **SAP**.

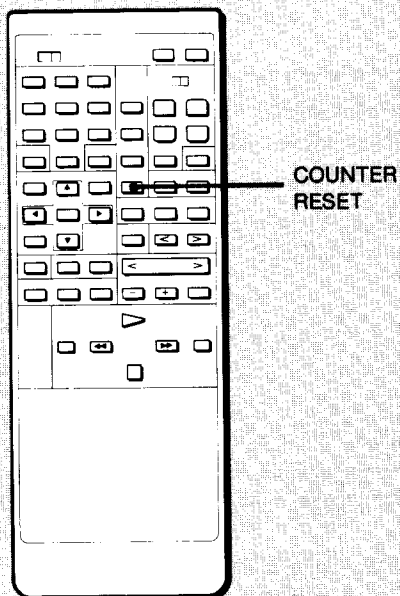
```

MODE SET
AUTO ANT SEL  *ON OFF
AUTO STEREO    *ON OFF
AUDIO MIX      *ON *OFF
TIMER TITLE    *ON OFF
TIMER REC-REW  ON *OFF
▶NORMAL AUDIO  *MAIN SAP
BACK COLOR    *BL GR PK
LANC MODE      M *S
    
```

**6** Press **EXECUTE** to return to the original screen.  
In this way, SAP sound will be recorded on the normal audio track.

# Use of the Tape Counter

## Indexing the Tape Contents



Before starting recording or playback, press **COUNTER RESET** to set the counter to zero. 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.

### Note on counter reading

Even after the cassette is ejected, the counter reading is retained until a cassette is inserted again. The counter then returns to "0H00M00S".

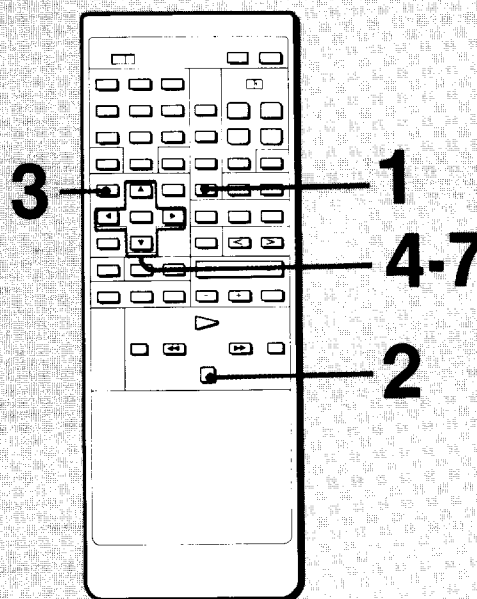
Display window

0<sub>H</sub> 00<sub>M</sub> 00<sub>S</sub>

## Tape Return/Tape Return Play

### Tape return

— To stop the tape at the counter zero point.



**1** During recording or playback, press the **COUNTER RESET** at the point you want to locate later. The tape counter will display "0H00M00S".

**2** When recording or playback is completed, press **STOP**.

**3** Press **MENU**. Main MENU will appear.

**4** Move cursor to **AUTO MENU**.

```
MENU
▶AUTO MENU
TIMER SET/CHECK
MODE SET
TUNER PRESET
FUNCTION MEMORY
CLOCK SET
DEMONSTRATION
```

**5** Press **EXECUTE**. **AUTO MENU** display will appear.

**6** Move cursor to **GO TO ZERO-STOP**.

```
AUTO MENU
PLAY-REW-POWER OFF
▶GO TO ZERO-STOP
GO TO ZERO-PLAY
GO TO REC START-PLAY
REW-POWER OFF
REW-EJECT-POWER OFF
REW-PLAY
REW-TIMER REC
```

(Tape return)

**7** Press **EXECUTE**. The tape will be rewound or advanced close to the counter zero point, and stop at the counter zero point.

#### Tape return play

— To start playback automatically from the counter zero point

Follow steps 1 to 5 in the above procedure, then select **GO TO ZERO-PLAY** in the step 6 and press **EXECUTE**.

```
AUTO MENU
PLAY-REW-POWER OFF
GO TO ZERO-STOP
▶GO TO ZERO-PLAY
GO TO REC START-PLAY
REW-POWER OFF
REW-EJECT-POWER OFF
REW-PLAY
REW-TIMER REC
```

(Tape return play)

The tape will be rewound or advanced close to the counter zero point, and start playback from the counter zero point.

#### Notes

- The tape counter does not work when the inserted tape has no recordings.
- The counter zero point may be few seconds ahead seconds ahead or behind the exact time.

# Timer Recording

You can preset up to eight recordings as much as one month\* in advance.  
 The recordings can only be preset on the TV screen with the Remote Commander.  
 Don't use any buttons on the VCR even if it was the same name.

## \* Recording from today to one month later

If today is August 31st, you can set the timer to record a program broadcast between today and September 30 (for 31 days).

If today is January 31st, you can set the timer to record a program broadcast between today and February 28 (for 29 days). A Leap year is automatically calculated.

## Before You Begin

- The date and clock must be set correctly. (See "Date and Clock Setting.") (page 24)
- Make sure the cassette tape is long enough to record all the programs.
- Be sure that the safety tab on the cassette has not been broken off. If you insert a cassette without its safety tab and press **TIMER REC ON/OFF**, the cassette will be automatically ejected.
- Set the REC LEVEL control to indented position.
- Turn on the VCR and the TV.

## Timer Setting Example

Suppose you want to make a recording of channel 26 from 9:00 PM. to 10:55 PM. on Wednesday August 16 in EP mode.

Use ► and ◀ to select items.  
 Use ▲ and ▼ to change numbers and to move cursor.

**1** Press **MENU**.  
 Main MENU will appear.

**2** Move cursor to **TIMER SET/CHECK**.

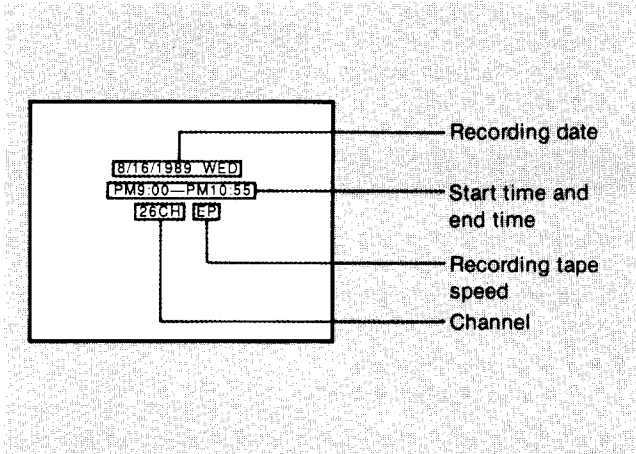
MENU	
AUTO MENU	
▶TIMER SET/CHECK	
MODE SET	
TUNER PRESET	
FUNCTION MEMORY	
CLOCK SET	
DEMONSTRATION	

**3** Press **EXECUTE**.  
**TIMER SET/CHECK** display will appear.

TIMER DATE	SET/CHECK		8/4 CH	FRI
	ON	OFF		
▶-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-
-/-	-/-	-/-	-/-	-/-

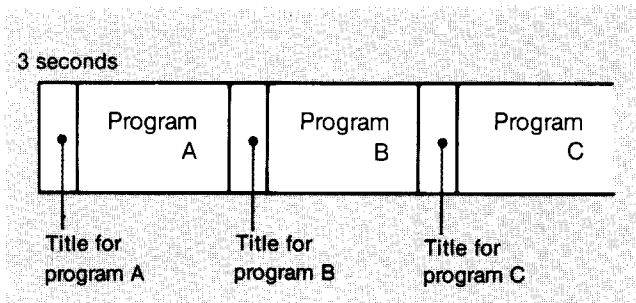


## Recording a Title Over a Blue, Green, or Pink Background — Timer Title



Timer title is recorded for approximately 3 seconds at the beginning of each recording.

20 seconds before the timer recording starts, the power is automatically turned on and a title such as the one above is recorded for approximately 3 seconds. After that, the VCR enters the recording pause mode and it will start recording at the set time.



This function makes it easier to search for a certain program on a tape on which many programs have been recorded.

## To rewind the tape automatically to the recording start point after timer recording is over

- 1 Press **MENU**.  
Main MENU will appear.
- 2 Move cursor to **MODE SET**.
- 3 Press **EXECUTE**.  
MODE SET display will appear.
- 4 Move cursor to **TIMER REC-REW**.
- 5 Select **ON**.
- 6 Press **EXECUTE** to return to the original screen.

Use ▲ and ▼ to move cursor.  
Use ► and ◀ to select items.

### If you do not want a title recorded

- 1 Press **MENU**.  
Main MENU will appear.
- 2 Move cursor to **MODE SET**.
- 3 Press **EXECUTE**.  
MODE SET display will appear.
- 4 Move cursor to **TIMER TITLE**.
- 5 Select **OFF**.
- 6 Press **EXECUTE** to return to the original screen.

### Notes

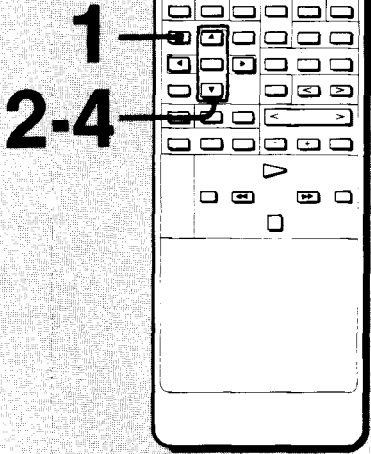
- If other timer recording remain in the memory after a timer recording is completed, **TIMER REC-REW** cannot be activated.
- If the tape comes to its end during timer recording, the tape will be rewound to the recording start point and the power will be turned off.



## To Check Timer Setting

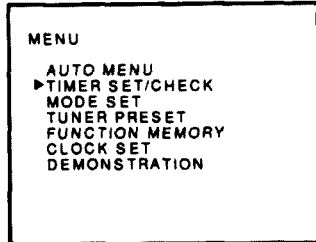
You can make all the timer settings appear on the TV screen. This makes checking timer settings easy.

Use ▲ and ▼ to move cursor.

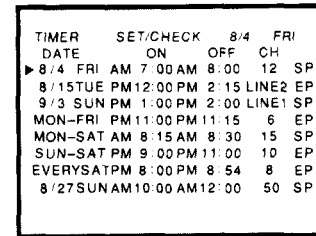


- 1 Before checking, press **TIMER REC ON/OFF** to get out of the timer recording standby mode (if the **TIMER REC** indicator is turned on) and turn on the **VCR**.  
Press **MENU**.  
Main **MENU** will appear.

- 2 Move cursor to **TIMER SET/CHECK**.



- 3 Press **EXECUTE**.  
**TIMER SET/CHECK** display will appear.

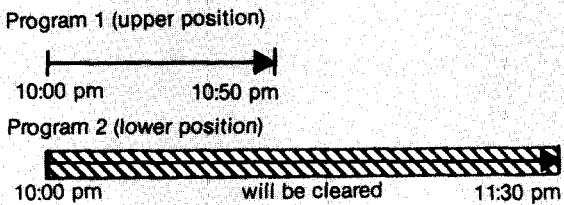


- 4 To erase the list, press **EXECUTE**.

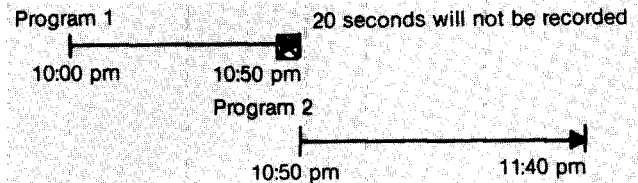
To return to timer recording standby mode  
Press **TIMER REC ON/OFF**.

## When the Presettings of Timer Recordings Overlap

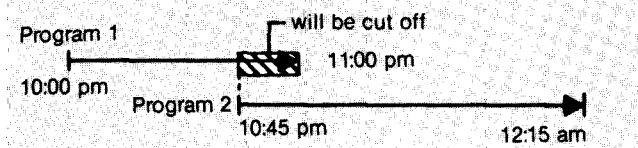
- 1 If the turn-on time of two programs are the same  
The recording of the upper position on the **TIMER SET/CHECK** display will be made. The memory of the program of the lower position will be cleared (if it is for one-day program).



- 2 If the recording start time of program 2 is the same as the recording end time of program 1  
The last 20 seconds of program 1 will not be recorded.



- 3 If the recording start time of program 2 comes before the recording of program 1 is finished  
The recording of program 2 will begin before program 1 is finished.



## Problems When TIMER REC ON/OFF is Pressed

The cassette is ejected automatically.	The safety tab of the inserted cassette has been broken off.
The TIMER indicator does not appear.	<ul style="list-style-type: none"> <li>•No cassette has been inserted.</li> <li>•The tape is at its end.</li> <li>•No program is set.</li> </ul>

### Information about timer recording

- When the recording is completed, the memory of the program will be erased if it is for only one day.
- If the tape reaches at its end before the turn-off time, recording will stop and the power will turn off.

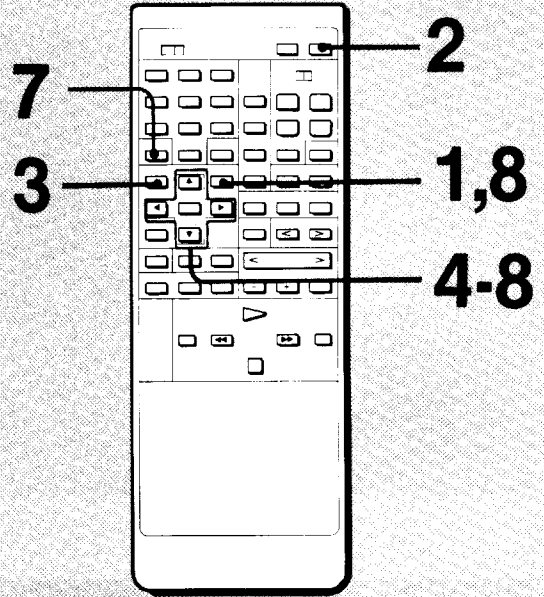
### If a power-interruption occurs

- If a power interruption lasting less than approximately 3 hours occurs while the VCR is waiting for a preset time, the VCR will enter the standby mode for timer recording again. (If a power interruption lasting more than approximately 3 hours occurs before a timer recording the memory will be cleared. Reset the date and time, then preset the date for the timer recording again.)
- If a power interruption lasting less than approximately 3 hours occurs during a timer recording, the VCR will start recording again but the tape counter will indicate "0H00M00S."

## To Cancel or Change the Timer Settings

You can also cancel or change the timer settings on the TV screen. First, display the TIMER SET/CHECK display. Then select the program and cancel or change it.

Use ▲ and ▼ to move cursor.  
Use ► and ◀ to blink items.



**1** If **TIMER REC** indicator is turned on, press **TIMER REC ON/OFF** so that the **TIMER REC** indicator disappear.

**2** If the power is turned off, press **POWER** to turn the power on.

**3** Press **MENU**.  
Main **MENU** will appear.

**4** Move cursor to **TIMER SET/CHECK**.

```
MENU
AUTO MENU
▶TIMER SET/CHECK
MODE SET
TUNER PRESET
FUNCTION MEMORY
CLOCK SET
DEMONSTRATION
```

**5** Press **EXECUTE**.  
**TIMER SET/CHECK** display will appear.

```
TIMER  SET/CHECK  8/4  FRI
DATE    ON    OFF  CH
▶8:4  FRI AM 7:00AM 8:00 12  SP
8:15TUE PM12:00PM 2:15 LINE2 EP
9:3  SUN PM 1:00PM 2:00 LINE1 SP
MON-FRI PM11:00PM 11:15 6  EP
MON-SAT AM 8:15AM 8:30 15  SP
SUN-SAT PM 9:00PM 11:00 10  EP
EVERYSATPM 8:00PM 8:54 8  EP
8:27SUNAM10:00AM12:00 50  SP
```

**6** Move cursor to the desired program.

**7** To cancel it, press **TIMER CLEAR**.

```
TIMER  SET/CHECK  8/4  FRI
DATE    ON    OFF  CH
8:4  FRI AM 7:00AM 8:00 12  SP
8:15TUE PM12:00PM 2:15 LINE2 EP
▶8:20SUN PM 1:30PM 3:00 LINE1 EP
MON-FRI PM11:00PM 11:15 6  EP
MON-SAT AM 8:15AM 8:30 15  SP
SUN-SAT PM 9:00PM 11:00 10  EP
EVERYSATPM 8:00PM 8:54 8  EP
8:27SUNAM10:00AM12:00 50  SP
```

To change it, move the blinking position to the desired item and make the change.

```
TIMER  SET/CHECK  8/4  FRI
DATE    ON    OFF  CH
8:4  FRI AM 7:00AM 8:00 12  SP
8:15TUE PM12:00PM 2:15 LINE2 EP
▶8:20SUN PM 1:30PM 3:00 LINE1 EP
MON-FRI PM11:00PM 11:15 6  EP
MON-SAT AM 8:15AM 8:30 15  SP
SUN-SAT PM 9:00PM 11:00 10  EP
EVERYSATPM 8:00PM 8:54 8  EP
8:27SUNAM10:00AM12:00 50  SP
```

**8** Press **EXECUTE** to return to the original screen.  
Press **TIMER REC ON/OFF** to return to timer recording standby mode.

## Timer Recording

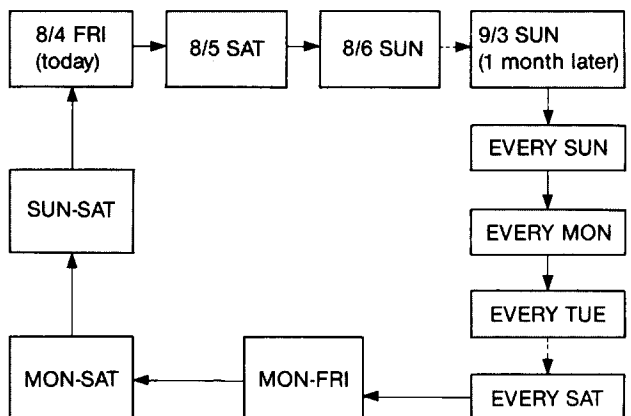
### Every Week Recording and Every Day Recording

You can preset every week or every day timer recordings. This function is convenient if, for example, you wish to record the same movie program every Friday at same time on same channel.

#### Operation

Use ▲ and ▼ to move cursor and to change items.  
Use ► and ◀ to blink items.

- 1 Press **MENU**.  
Main MENU will appear.
- 2 Move cursor to **TIMER SET/CHECK**.
- 3 Press **EXECUTE**.
- 4 Make the **DATE** position blink.
- 5 Change the date by pressing ▲.  
The date changes as follows.



Press ▼ for the reverse direction.

#### **EVERY SUN — — — EVERY SAT**

At the same time on the same day every week

#### **MON — FRI**

At the same time every day from Monday to Friday

#### **MON — SAT**

At the same time every day from Monday to Saturday

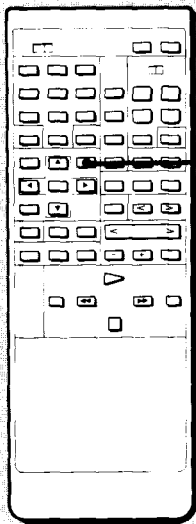
#### **SUN — SAT**

At the same time every day

- 6 According to steps 6 to 12 on page 47, follow the necessary procedure.

## To Use the VCR Before Timer Recording Starts

If you want to use the VCR in the timer recording standby mode, you must cancel the standby mode.



---

**1** Press **TIMER REC ON/OFF** so that the **TIMER REC** indicator in the display window disappears.

---

**2** Turn on the power of the VCR.

---

**3** Operate the VCR.

---

**4** After the operation, press **TIMER REC ON/OFF** so that the **TIMER REC** indicator appears.

---

**To stop a timer recording after recording has started**  
Press **TIMER REC ON/OFF**.

### Buttons which can be operated during timer recording

- **TIMER REC ON/OFF**
- **COUNTER RESET**
- **ANT TV/VTR**, (to watch the picture broadcast on another channel)
- **DATA SCREEN**
- **INDEX MARK**
- **TIMER SET/CHECK** (During recording, checking another setting is possible. But changing or canceling is not possible.)

# Quick Timer Recording

This function is convenient, for example, when you want to begin recording a program immediately, and do something else.

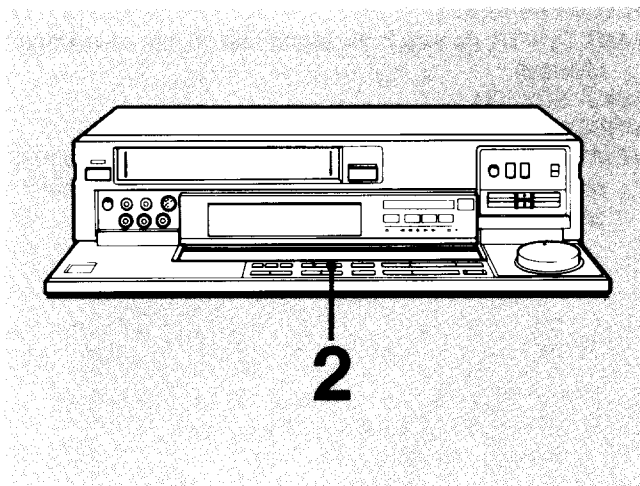
The timer can be set to operate within 8 hours in units of 30 minutes.

## Before You Begin

- Set INPUT SELECT to TUNER (i.e. TUNER indicator appears.)
- Set the tape speed to SP or EP with **REC MODE**.
- REC LEVEL must be set to the indented position.
- The **TIMER REC** indicator must not be displayed. Press **TIMER REC ON/OFF** if the indicator is lit.

## Operation

If you are recording now, perform only step 3.



---

**1** Insert a cassette.

---

**2** Press **QUICK TIMER** on the VCR. During the channel display is blinking, select the desired channel with **CHANNEL +/-** or the channel number buttons and **ENTER**. Select the tape speed.

---

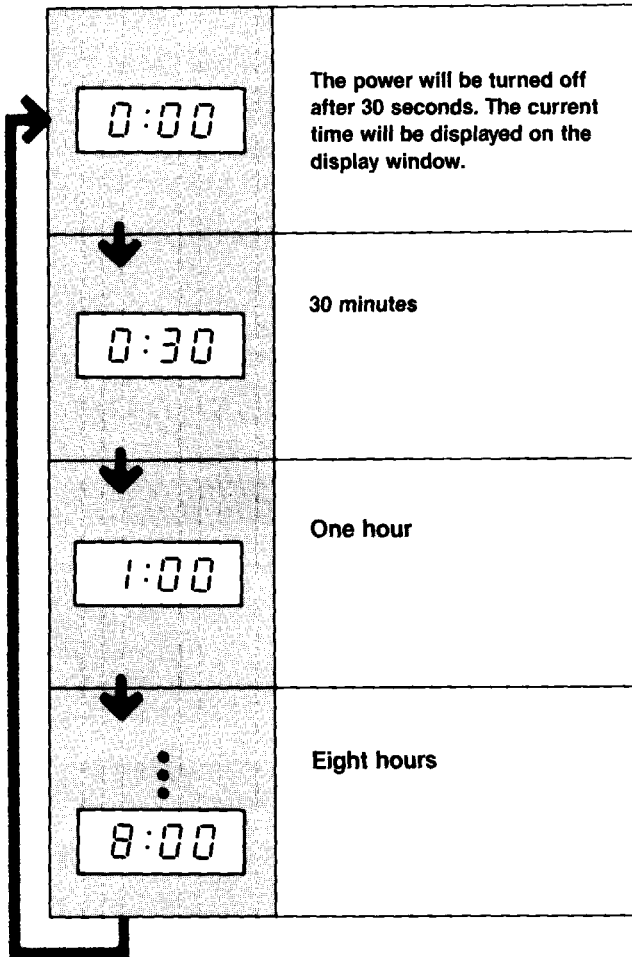
**3** Press **QUICK TIMER** again so that recording starts. Now decide the recording duration. Every time you press **QUICK TIMER**, the recording duration displayed will increase by 30 minutes.

---

You can leave the unit after turning off the TV. The power of the VCR will be turned off automatically when preset duration comes.

## Recording Duration Indication

Every time you press **QUICK TIMER**, the recording duration indication will change as shown below.



You can change the recording duration with **QUICK TIMER** even during quick timer recording. During recording, the displayed recording duration will decrease minute by minute.

## Operable Buttons During Quick Timer Recording

<b>PAUSE</b>	To stop quick timer recording momentarily
<b>TIMER REC ON/OFF</b>	To stop quick timer recording
<b>QUICK TIMER</b>	To change recording duration
<b>COUNTER RESET</b>	To reset the tape counter to zero
<b>INDEX MARK</b>	To mark an index signal
<b>ANT TV/VTR</b>	To watch the picture broadcast on another channel
<b>MENU</b>	Only to check timer recording settings

### If the tape runs out during quick timer recording

Recording will stop and the power will be turned off. The tape will not be rewound automatically.

### If a cassette without its safety tab is inserted

The cassette will be ejected automatically when you press **QUICK TIMER**.

### If a power interruption occurs during quick timer recording

Recording will stop and the power will turn off. If the power interruption lasts less than three hours and power is restored before the end of the time set, recording will start again.

# Index Function

A particular program can be easily located by an index signal marked on the tape.

## To Mark Index Signals

**At the beginning of a recording, timer recording, or quick timer recording**

An index signal will be automatically marked on the tape.

**To mark an index signal manually**

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

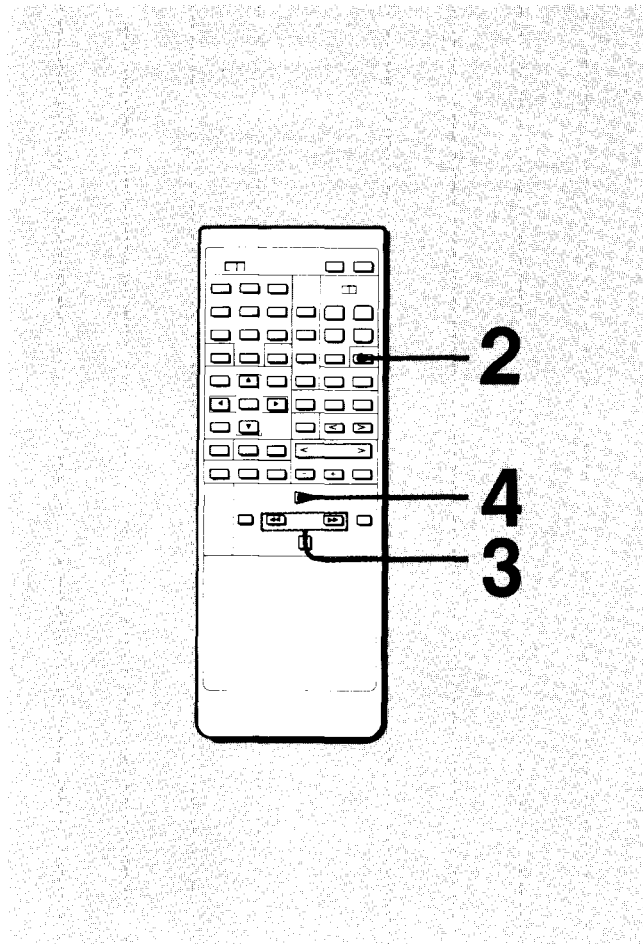
Press **INDEX MARK** at the point where an index signal is to be marked. The **INDEX** indicator will blink in the display window and **INDEX MARK** will appear while an index signal is being marked.

### Notes

- Mark an index signal more than 2 minutes before or after the previous index signal so that the VCR can detect it correctly.
- While an index signal is being marked during playback, the recorded sound will not be heard, but it will not be erased.
- You cannot mark an index signal in the following cases:
  - On a tape without its safety tab
  - On an unrecorded portion of a tape
  - Immediately before a point on the tape where the tape speed (EP or SP) changes
  - When playing back a tape recorded in LP mode

## Index Scan

You can play back the beginning of each program in sequence using the index function.



**1** Insert a cassette that has index signals marked.

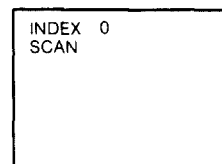
**2** Press **INDEX** once.

Display window



INDEX and SCAN  
blink alternately

TV screen



**3** To scan the previous programs, press **◀ REW**.  
To scan the programs ahead, press **▶ FF**.  
The **INDEX SCAN** indicator will blink continuously while scanning.  
The tape will be rewind or rapidly advanced to the next marked index signal.  
The tape will be played back for approximately 10 seconds, and then rewind or advanced to the next index signal.  
Every time an index signal is detected and playback begins, the displayed index number will increase (up to 19).

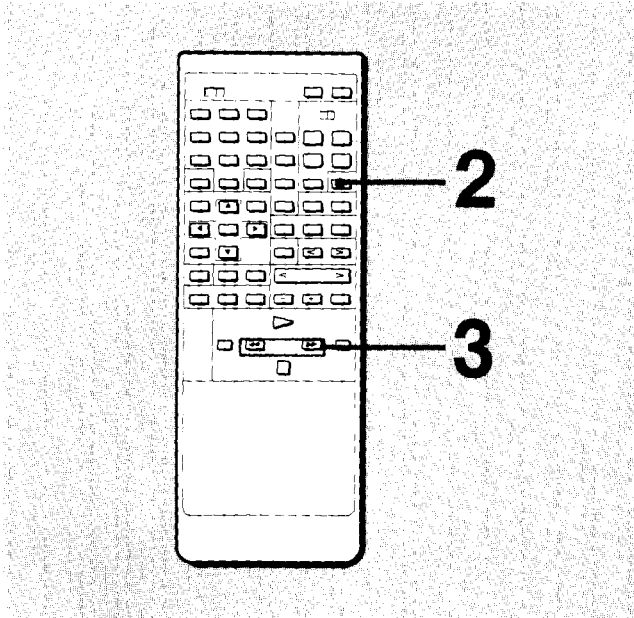
**4** At the desired program, press **▶ PLAY**.  
Normal playback of that program will begin.



## Index Search

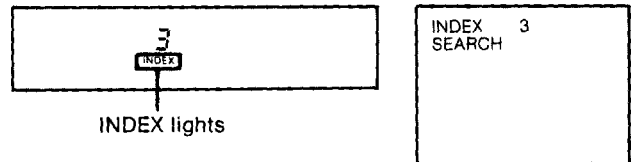
You can locate a particular program and play it back automatically by designating the number of its index signal.

Up to 19 index signals from the preset position on the tape can be located.



**1** Insert a cassette that has index signal marked.

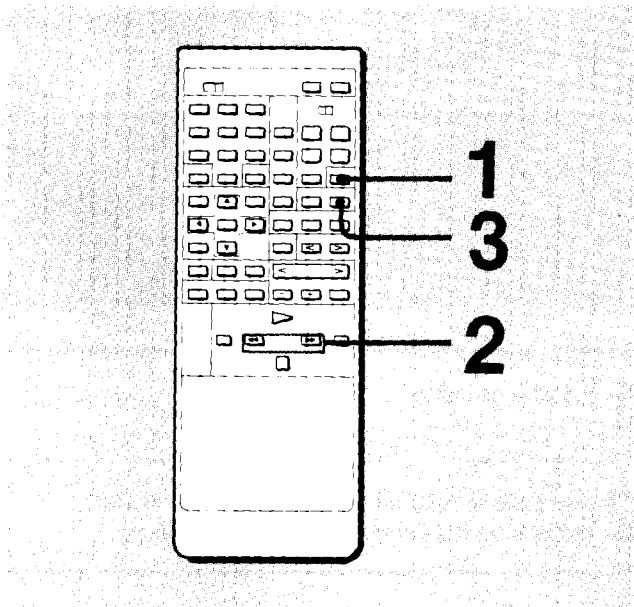
**2** Press **INDEX** until the index number of the desired program is displayed.  
The **INDEX** indicator and the **INDEX SEARCH** number will light up in the display window.



**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 **INDEX SEARCH** number will decrease. When the number reaches 0, playback of your desired program will begin.

## To Erase Index Signals

You can erase unnecessary index signals.



**1** Press **INDEX** once.

**2** Press **◀ REW** or **▶▶ FF**.  
The tape will be rewound or rapidly advanced. Every time an index signal is detected, the tape will be played back and then rewound or advanced to the next index signal.

**3** Press **ERASE** within approximately 10 seconds after you have verified the playback picture.  
While the index signal is being erased, the recorded sound will not be heard, but it will not be erased.

### Notes

- Index signals just before and after SP and EP are switched cannot be erased.
- Index signals on a LP tape cannot be erased.

# Audio Recording

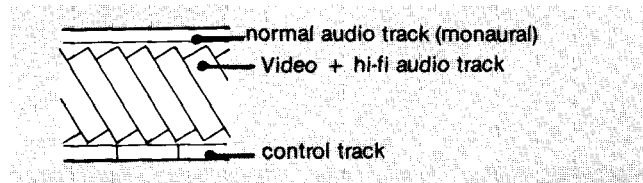
## Hi-fi Recording

### What is Hi-fi Recording?

In conventional recording, audio signals are recorded on the audio track and video signals on the video track. In hi-fi recording, audio signals are recorded in the same manner as video signals, using two rotary hi-fi audio heads. Thus, high-quality sound recording is possible.

### Hi-fi recording pattern on a tape

The VCR automatically performs hi-fi recording and normal audio recording at the same time, so that these tapes can also be played back on any ordinary VCR without a hi-fi system.



### Before You Begin

- Your audio system must be correctly connected to the VCR. (See "Connections.") (page 19)
- The switches must be set as follows.
  - 1 INPUT SELECT — LINE 1 or LINE 2 to whichever your audio system is connected to
  - 2 REC MODE — SP or EP
  - 3 REC LEVEL

Manually adjust REC LEVEL while observing the PEAK PROGRAM METER when the sound to be recorded is played back.

#### When the recording source is a disk or FM tuner:

Adjust so that the right-most element sometimes lights up.

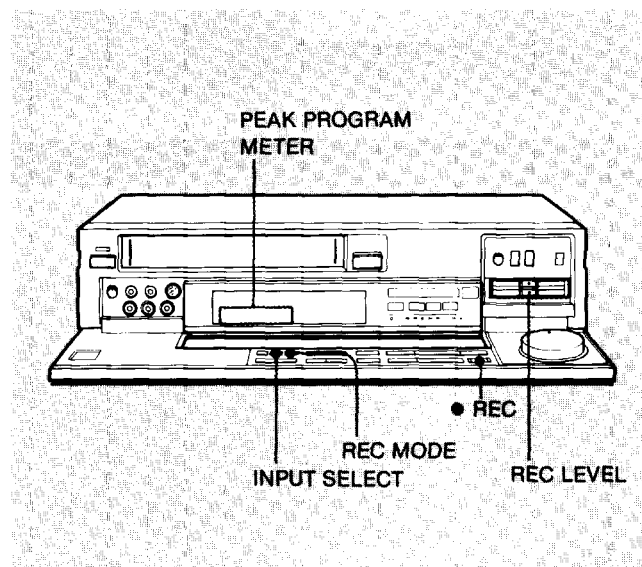
#### When the recording source is a compact disc or PCM digital audio processor:

Adjust so that the right-most element lights up only at the highest signal level.

### Hi-fi recording pattern on a tape

The VCR automatically performs hi-fi recording and conventional audio recording at the same time, so that these tapes can also be played back on any ordinary VCR without a hi-fi system.

### Operation



---

**1** Insert a cassette.

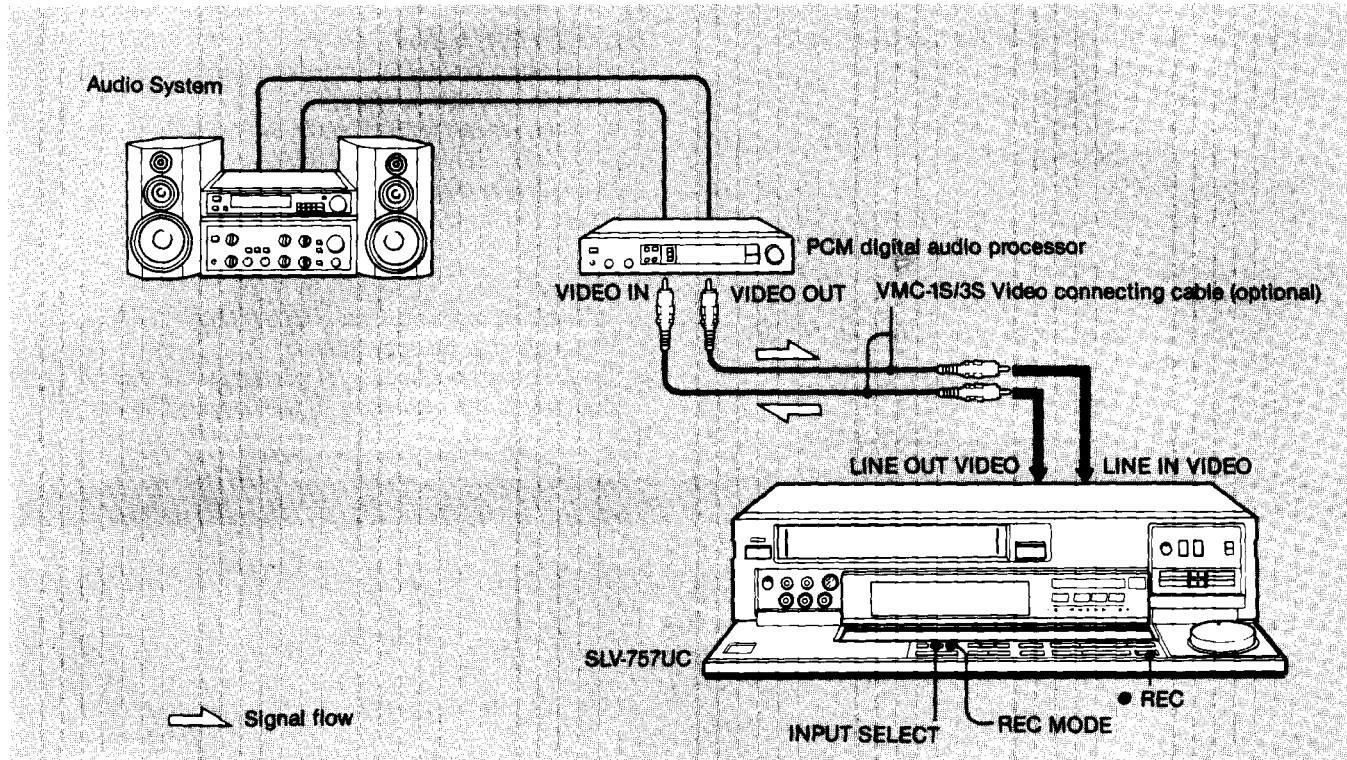
---

**2** Press the ● REC on the unit or the two ● REC buttons on the Commander simultaneously.

---

## PCM Recording and Playback

You can enjoy PCM recording and playback with the VCR.



### Before You Begin

- Your PCM digital audio processor and audio system must be correctly connected to the VCR.
- The switches must be set as follows:
  - INPUT SELECT — LINE 1 or LINE 2 (Select the input connected to the PCM digital audio processor)
  - REC MODE — SP or EP
- For details, refer to the instruction manual of the digital audio processor and the audio system.

### Operation

- 1 Insert a cassette.
- 2 Press ● REC on the VCR or two ● REC on the Commander.

# Editing the Entire Tape Contents to Another Tape

Using an additional VCR, you can create your own video program tape.

## Before You Begin

### When you use the SLV-757UC as the recording VCR

Before starting to edit, check the switches.

- INPUT SELECT → LINE 1 or LINE 2  
(Select the input connected to another VCR)
- REC MODE → SP or EP
- REC LEVEL → Adjust according to another VCR

### When you use the SLV-757UC as the playback VCR

Before starting to edit, do the followings:

Select the sound to be recorded with **AUDIO MONITOR** on the Commander.

### Use of the EDIT button

Before editing, press EDIT so that the EDIT indicator lights in the display window.

Even when using the EDIT mode during editing, the quality of the edited tape will have a certain degree of deterioration in picture.

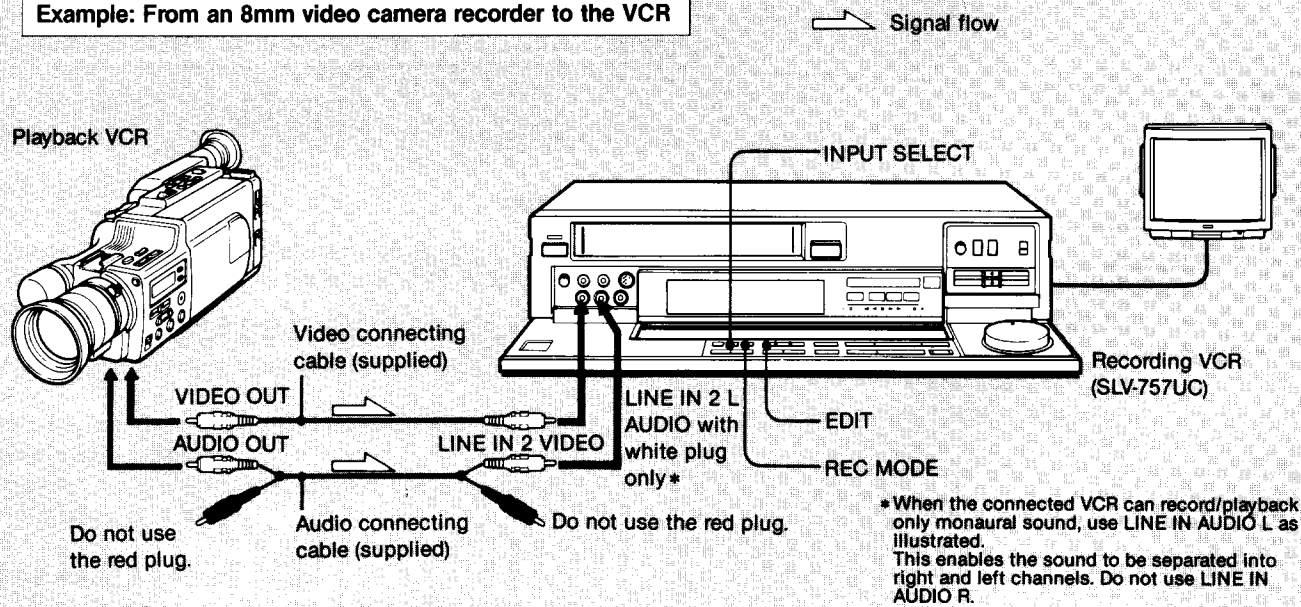
It is better to avoid dubbing from an edited tape.

### 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.

## Editing a Home Movie Tape from Another VCR

Example: From an 8mm video camera recorder to the VCR



### Operation

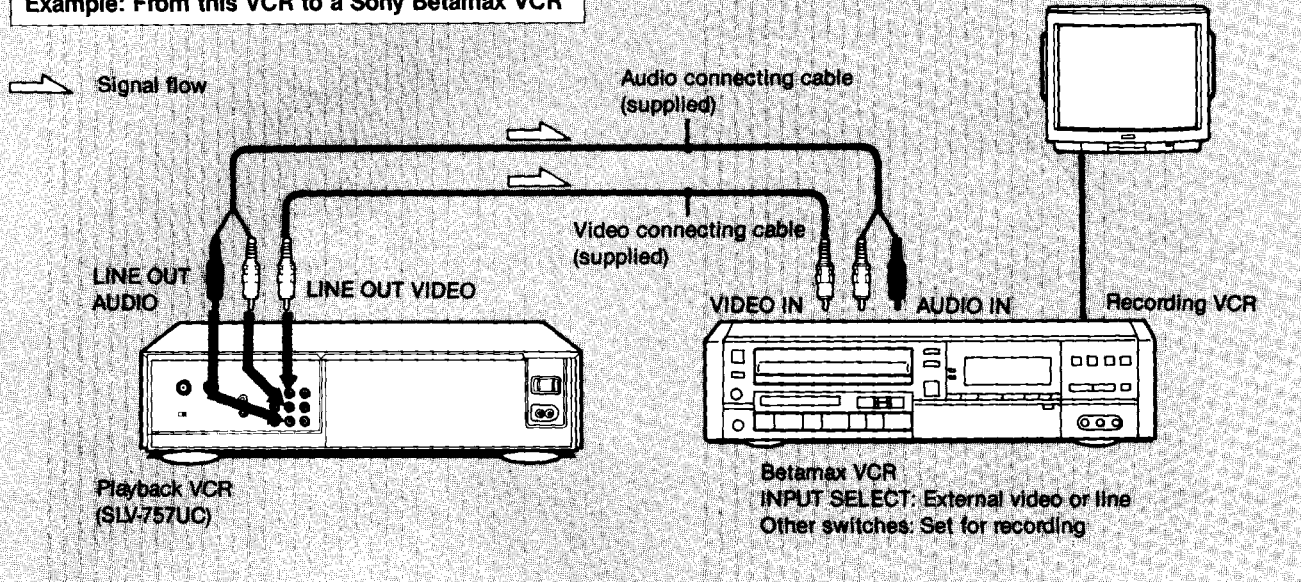
- 1 Turn on the power of the playback VCR and insert a source tape.
- 2 Insert a cassette for recording.
- 3 Press **EDIT** to light the indicator. Activate the EDIT mode if the playback VCR has this function.
- 4 Find the playback start point and enter the playback pause mode.
- 5 Find the recording start point and enter the recording pause mode.
- 6 Press the **PAUSE** button on both VCRs simultaneously. The other VCR will start playback and the VCR will start recording.

### When editing is completed

Press the **STOP** button on both of the units.

## Editing a Home Movie Tape from this VCR

### Example: From this VCR to a Sony Betamax VCR



- 1 Insert a source tape into this VCR.
- 2 Turn on the power of the recording VCR and insert a cassette for recording.
- 3 Press **EDIT** to light the EDIT indicator in the display window.  
Activate EDIT function if the recording VCR has this function.
- 4 Find the playback start point and enter the the playback pause mode.
- 5 Find for the recording start point and enter the recording pause mode.
- 6 Press the **PAUSE** button on both of the units simultaneously.  
The VCR will start playback and the other VCR will start recording.

#### When editing is completed

Press the STOP button on both of the units.

#### If the connected VCR is monaural

- Use the RK-C72 connecting cable instead of the supplied audio connecting cable.
- To play back a cassette tape on which an MTS broadcast has been recorded, select the monitor sound with **AUDIO MONITOR** on the Commander.

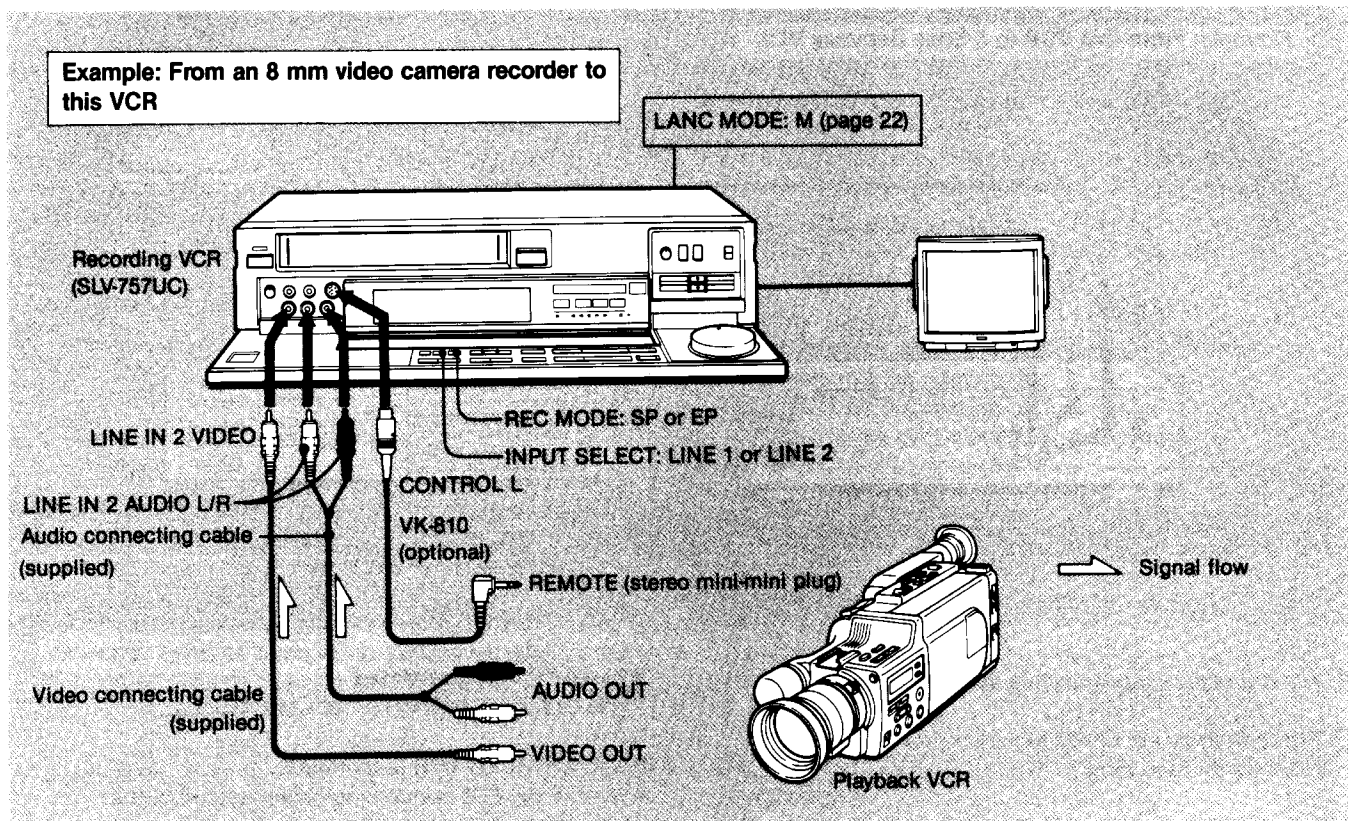
#### Note

Do not connect the same VCR to both the LINE IN and LINE OUT jacks of the VCR. This may cause a humming noise.

# Synchronized Editing

Recording and playback on two VCRs can be synchronized.

**Editing a Home Movie Tape from Another VCR: Connecting a VCR equipped with a CONTROL L (REMOTE) connector**

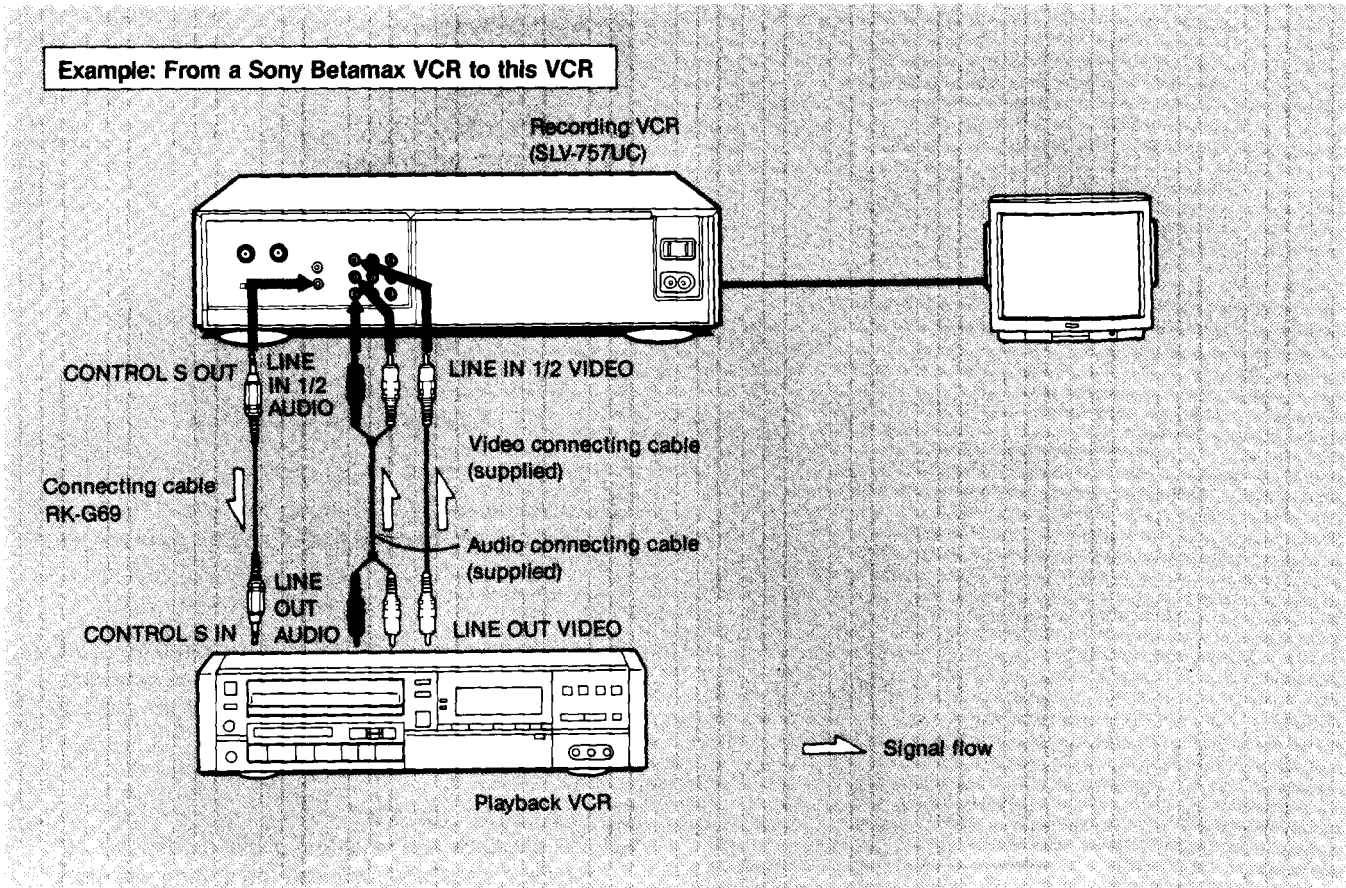


**If the REMOTE connector of the connected video camera recorder is a 5-pin DIN connector**  
Use the VK-800 connecting cable instead of the VK-810.

**When the connected video camera recorder is a monaural type**  
Use LINE IN 2 AUDIO L. This enables the sound to be separated into right and left channels. Do not use LINE IN 2 AUDIO R (red plug).

**If you connect a Sony editing controller RM-E300**  
You can perform automatic assemble editing of up to 8 programs. Set LANC MODE of this VCR to S. (See page 22.)

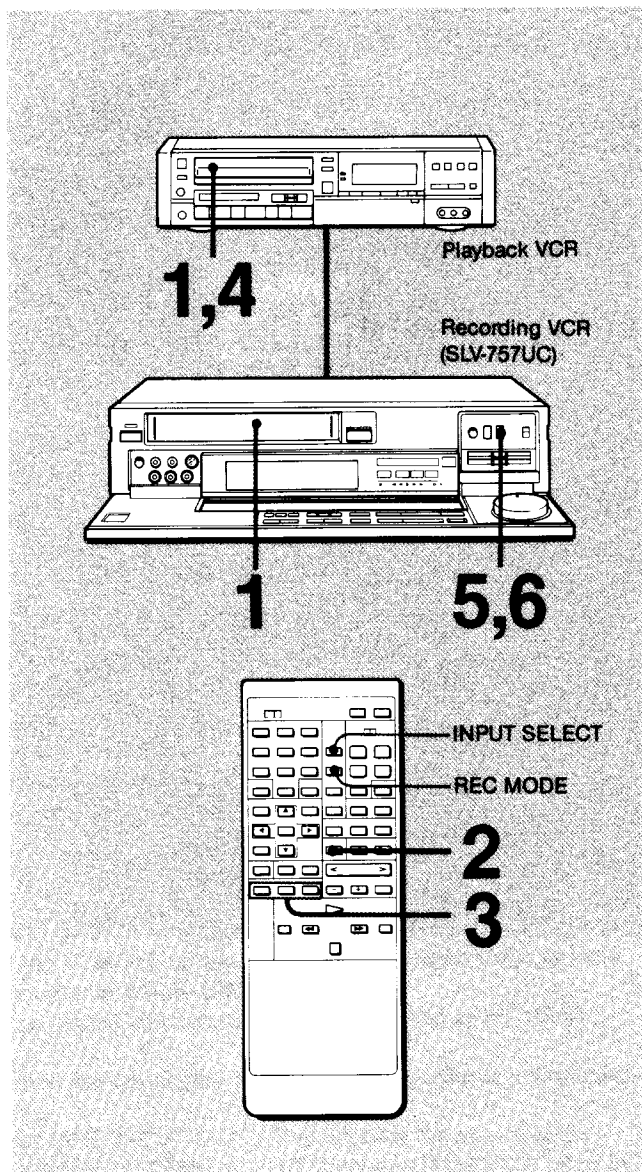
**Editing a Home Movie Tape from Another VCR: Connecting a VCR equipped with a CONTROL S IN jack**



- If the connected VCR is a monaural type**
- Use the RK-C72 connecting cable instead of the supplied audio connecting cable.
  - Use LINE IN 2 AUDIO L. This enables the sound to be separated into right and left channels. Do not use LINE IN 2 AUDIO R (red plug).

# Synchronized Editing

For connection, see page 62 or 63.



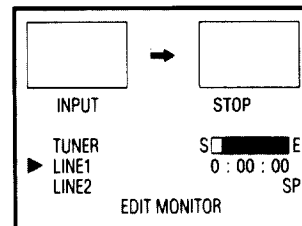
### Notes

- As the time when the playback VCR functions completely after **SYNCHRO EDIT** is pressed is considered, the recording will start approximately 1 second after the playback pause mode is released.
- When this unit is used as the recorder and the **SYNCHRO EDIT** indicator lights, if the picture is played back at the variable speed on the playback VCR, the variable speed (slow or double speed) picture will be recorded.

### Operation

**1** Insert a cassette.

**2** Press **EDIT MONITOR**.



**3** On the recording VCR, locate the recording starting point and set the VCR in the recording pause mode.

**4** On the playback VCR, locate the desired point where you wish to edit and set the VCR in the playback pause mode. Activate **EDIT** function if the playback VCR has this function.

**5** Press **SYNCHRO EDIT**.  
The playback and recording pause modes will be released simultaneously and the editing will start.

When **SYNCHRO EDIT** is pressed, the **EDIT** indicator will light in the display window.

**6** Press **SYNCHRO EDIT** to stop editing.  
The playback VCR will be set to the playback pause mode and the recording VCR will be set to the recording pause mode.

#### To edit the next desired scene

Repeat step 4 to 6.

#### To stop editing

Press the **STOP** button on both VCRs.

#### To avoid deterioration in picture

When **EDIT** is pressed and the **EDIT** indicator lights, the deterioration in picture can be reduced.

When **SYNCHRO EDIT** on this unit is pressed, the **EDIT** function is also automatically turned on.

#### When a new scene is inserted onto the recorded tape

See the "Insert editing" on page 69.

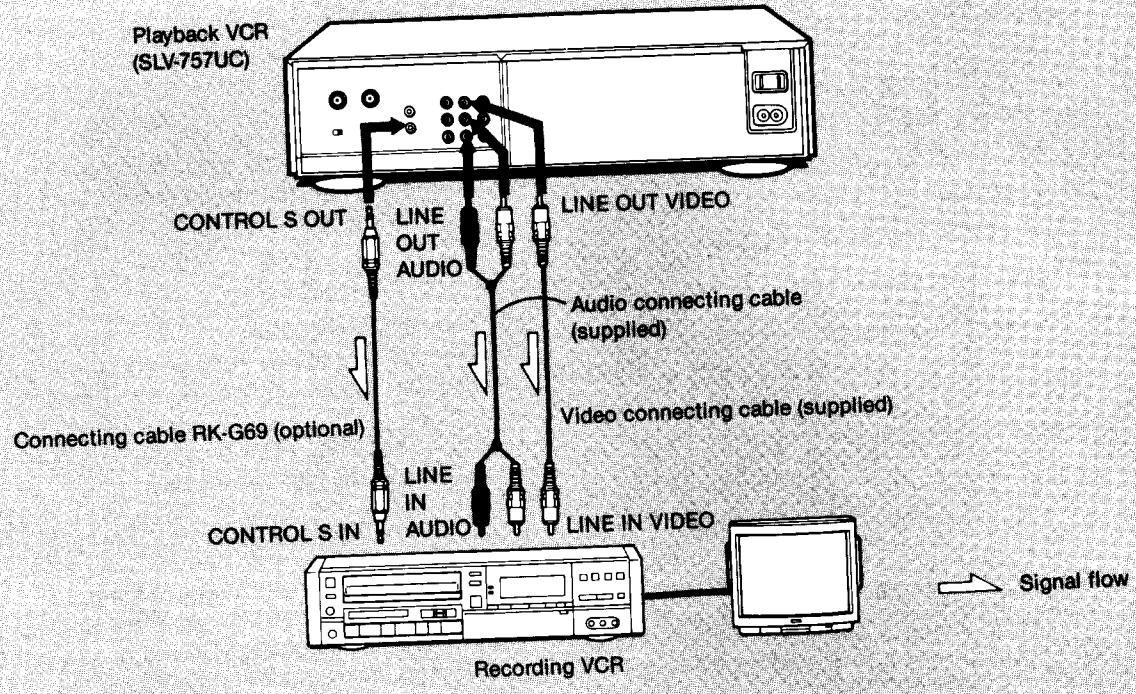
When the above editing function is used, the edited picture will be disturbed at the end point.

Before operation, see the "Before you begin" on page 60.

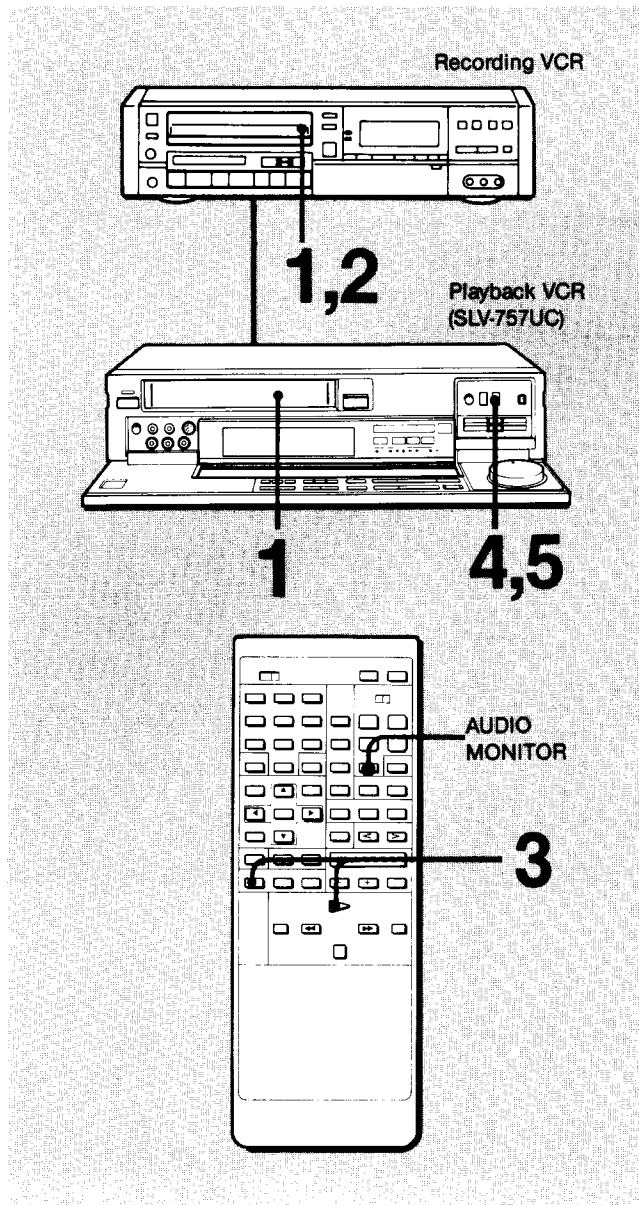


Editing a Home Movie Tape from this VCR: Connecting a VCR equipped with a CONTROL S IN jack

Example: From this VCR to a Sony Betamax VCR



For connection, see page 65.



## Operation

- 1** Insert a cassette.
- 2** On the recording VCR, locate the recording starting point and set the VCR in the recording pause mode.
- 3** On the playback VCR, locate the desired point where you wish to edit and set the VCR in the playback pause mode.
- 4** Press **SYNCHRO EDIT**.  
After the tape will be rewound a little, the playback will start. The recording will start at the editing point.  
  
When **SYNCHRO EDIT** is pressed, the EDIT indicator will light in the display window.
- 5** Press **SYNCHRO EDIT** to stop editing.  
The playback VCR will be set to the playback pause mode and the recording VCR will be set to the recording pause mode.

**To edit the next desired scene**  
Repeat step 3 to 5.

**To stop editing**  
Press the STOP button on both VCRs.

**To avoid deterioration in picture**  
When **EDIT** is pressed and the EDIT indicator lights, the deterioration in picture can be reduced.  
When **SYNCHRO EDIT** on this unit is pressed, the EDIT function is also automatically turned on.

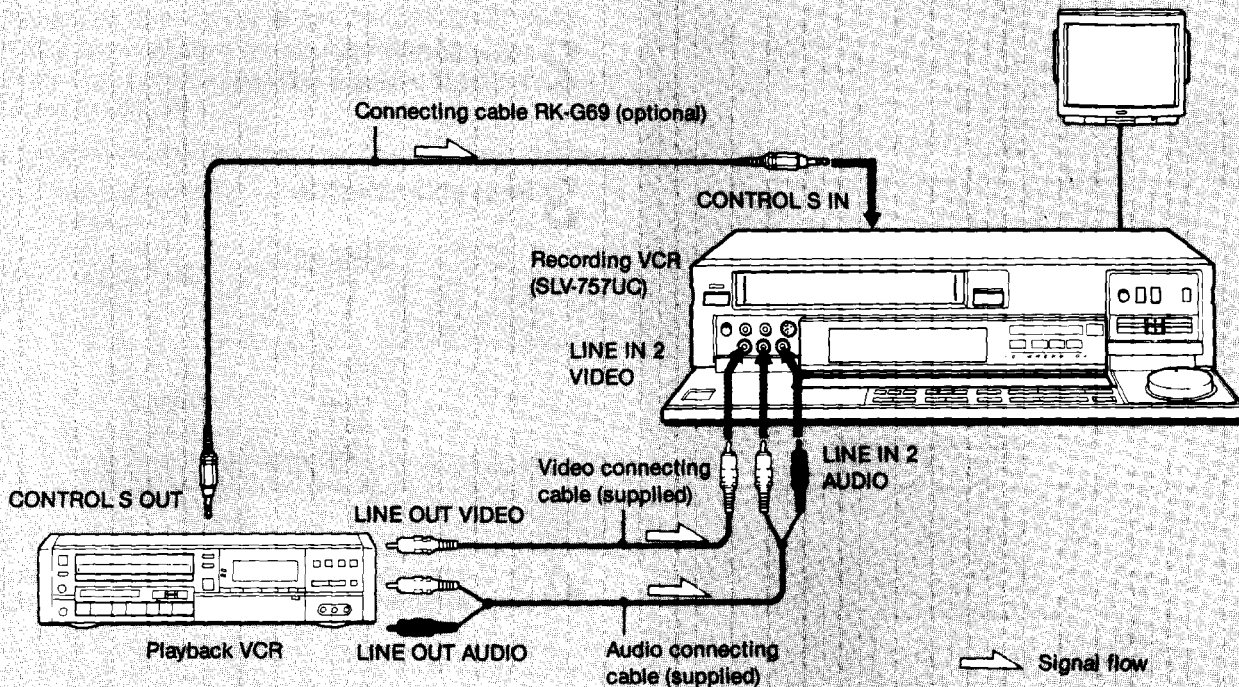
### Note

Do not operate the buttons on the VCRs or Commander during editing. Otherwise, a malfunction may occur.

Before operation, see the "Before you begin" on page 60.

## Editing a Home Movie Tape from Another VCR: Connecting a VCR with a Control S Out Jack and Synchro Edit Function

Example: From a Sony Betamax VCR to this VCR



### Operation

- 1** Turn on the power of the playback VCR and insert a source tape.  
Activate the EDIT function if the VCR has it.
- 2** Insert a cassette for recording into this VCR.
- 3** Find the edit start point on the recording VCR and enter the recording pause mode.
- 4** Find the playback start point on the playback VCR and enter the playback pause mode.
- 5** Press the SYNCHRO EDIT button of the playback VCR.  
The other VCR will start playback and this VCR will start recording.
- 6** Press the SYNCHRO EDIT button on the playback VCR at the end point of the edit.  
The playback VCR will enter the playback pause mode and this VCR will enter recording pause mode.

Before operation, see the "Before you begin" on page 60.

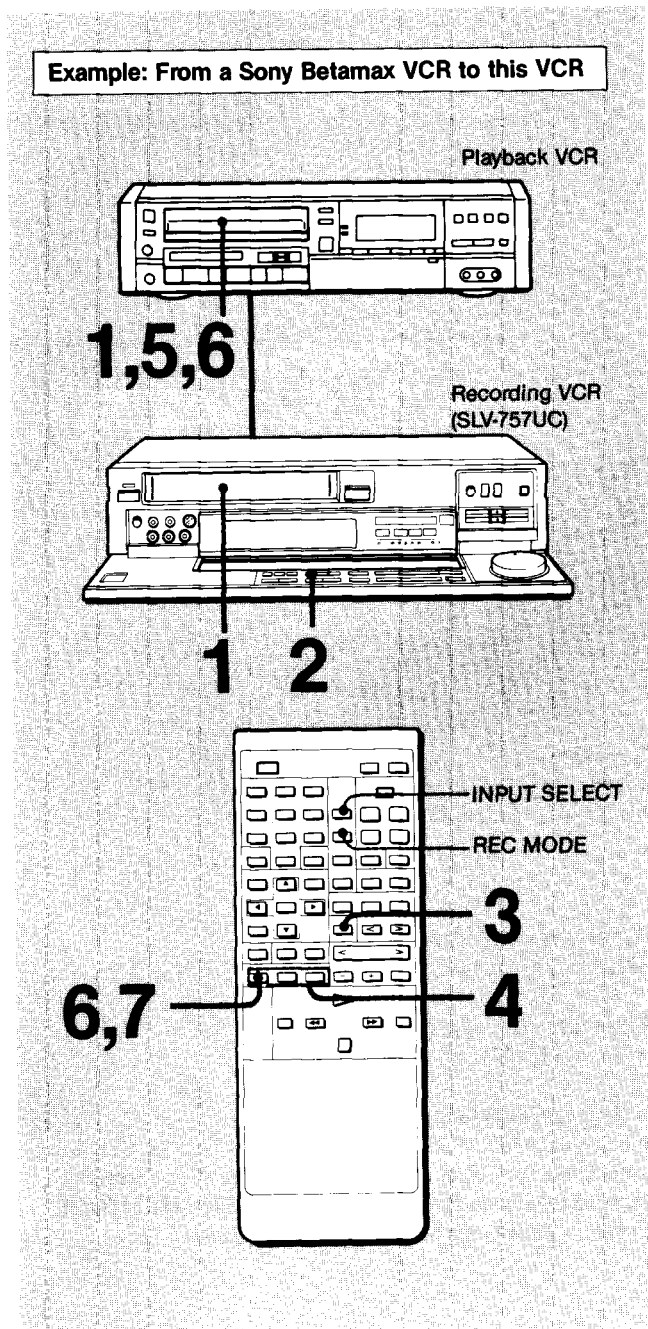
**To edit the next scene**  
Repeat steps 4 to 6.

**When editing is completed**  
Press the STOP button on both VCRs.

**Setting of COMMAND MODE**  
Set COMMAND MODE on the VCR to VTR 1 or VTR 2. Otherwise, this VCR cannot be operated. If you use the Remote Commander for editing, set COMMAND MODE on the Commander to VTR 1 or VTR 2, also.

# Manual Assemble Editing with a VCR without a Control Terminal

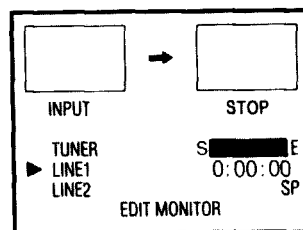
For connection, see page 63. (The CONTROL S connection is not needed.)



## Operation

- 1 Insert a cassette.
- 2 Press **EDIT**.  
The EDIT indicator will light.

- 3 Press **EDIT MONITOR**



- 4 On the recording VCR, locate the recording starting point and set the VCR in the recording pause mode.
- 5 On the playback VCR, locate the desired point where you wish to edit and set the VCR in the playback pause mode.
- 6 Press the **PAUSE** button on both VCRs simultaneously to start editing.
- 7 Press **|| PAUSE** of the recording VCR to stop editing.

**To edit the next desired scene**  
Repeat step 5 to 7.

**To stop editing**  
Press the **STOP** button on both VCRs.

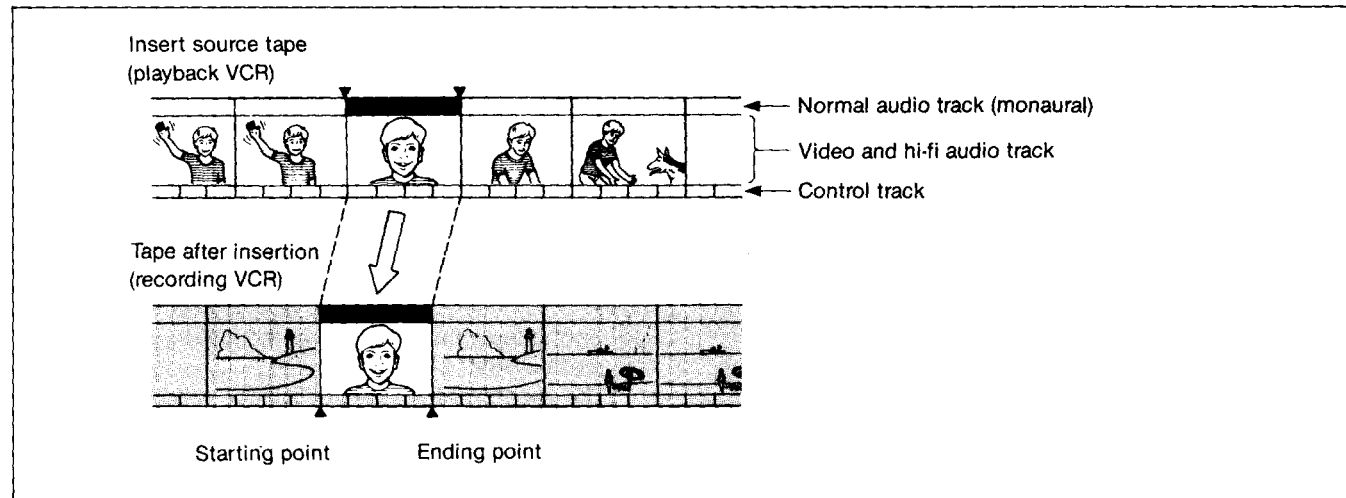
**Before operation, see the "Before you begin" on page 60.**

# Insert Editing

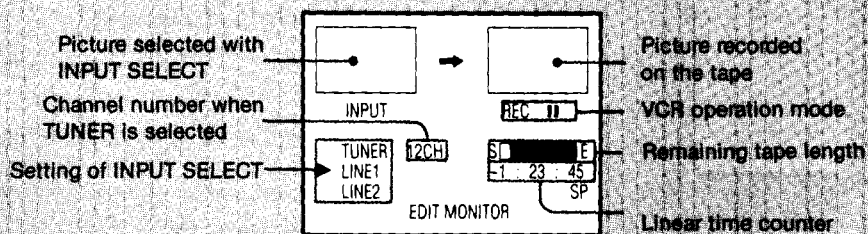
## Inserting a New Scene onto a Pre-recorded Tape

You can easily insert a new picture and/or sound onto a pre-recorded tape. "Audio insert", "Video insert", or "Audio and video insert" can be selected with this operation. This editing is useful to replace an unnecessary scene (sound) with another scene (sound).

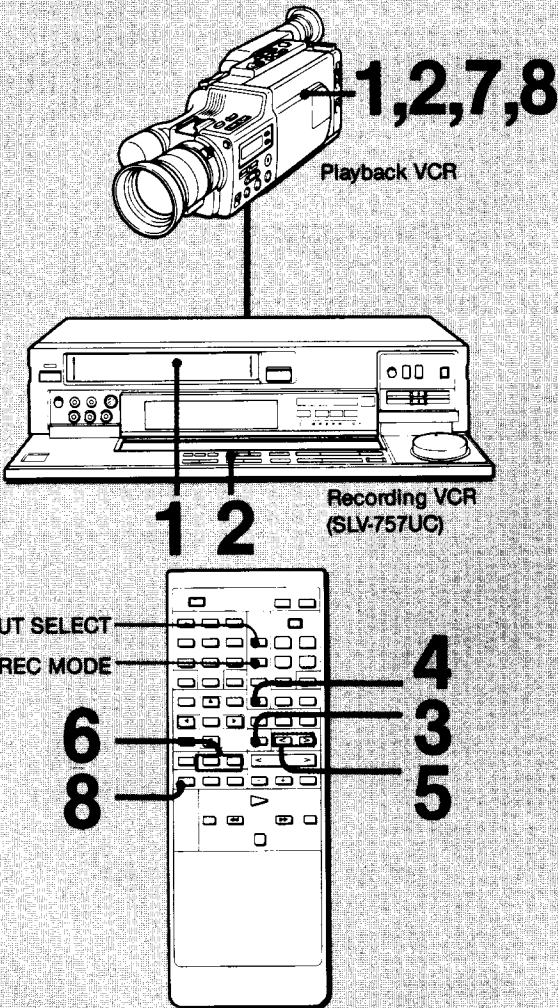
- For connection, see page 62 or 63. (The CONTROL L and CONTROL S connections are not needed.)
- Select the insert source from the TV or the equipment connected to LINE IN 1 or 2.



## EDIT MONITOR display

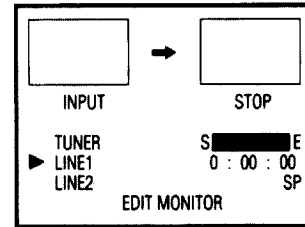


Example: From an 8 mm video camera recorder to this VCR



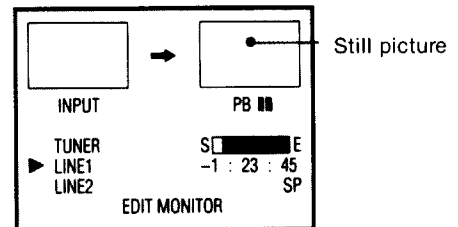
Operation

- 1 Insert a cassette.
- 2 Press **EDIT**.  
Activate the edit function if the playback VCR has it.
- 3 Press **EDIT MONITOR**.

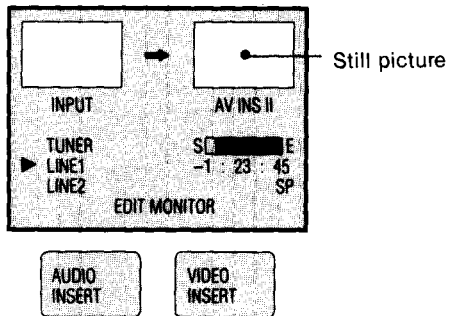


- 4 On the recording VCR, locate the ending point and press **COUNTER RESET**.  
The counter will show "0H00M00S" and the ending point will be memorized.

- 5 On the recording VCR, rewind the tape to locate the starting point and set the VCR to the playback pause mode.  
**SWING SHUTTLE** or **SHUTTLE EDIT** is useful for searching a desired point.



- Press **VIDEO/AUDIO INSERT**.
  - For audio insert, press **AUDIO**.
  - For video insert, press **VIDEO**.
  - For audio and video insert, press the **AUDIO** and then **VIDEO**.



The indicator corresponding to the button pressed will light.

**To stop the insertion temporarily**  
Press **|| PAUSE**.

**To stop on-going insertion**  
Press **■ STOP**.

**To turn off the editing display**  
Press **EDIT MONITOR**.

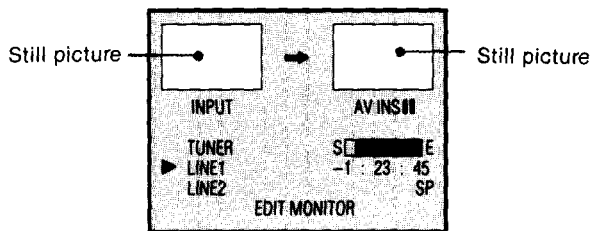
**When the sound from the microphone is inserted**

When the microphone is connected to MIC jack, the sound from the microphone is automatically selected and it is recorded on the normal audio track. When **VIDEO INSERT** is pressed, the sound from the microphone cannot be recorded.

**Notes**

- The insertion cannot be made onto the unrecorded portion of a tape.
- After the insertion, the previous picture and/or sound will be cleared.

- On the playback VCR, locate the starting point where you want to start the insertion and set the VCR to the playback pause mode.



- Press the **PAUSE** button on both VCRs to start the insertion.
  - At the ending point (0H00M00S), the insertion will stop automatically. (To stop playback, press the **STOP** button.)

**Notes on when INSERT is pressed**

**When VIDEO INSERT is pressed**

The picture and the hi-fi sound will be inserted. (The monaural sound will be retained.)

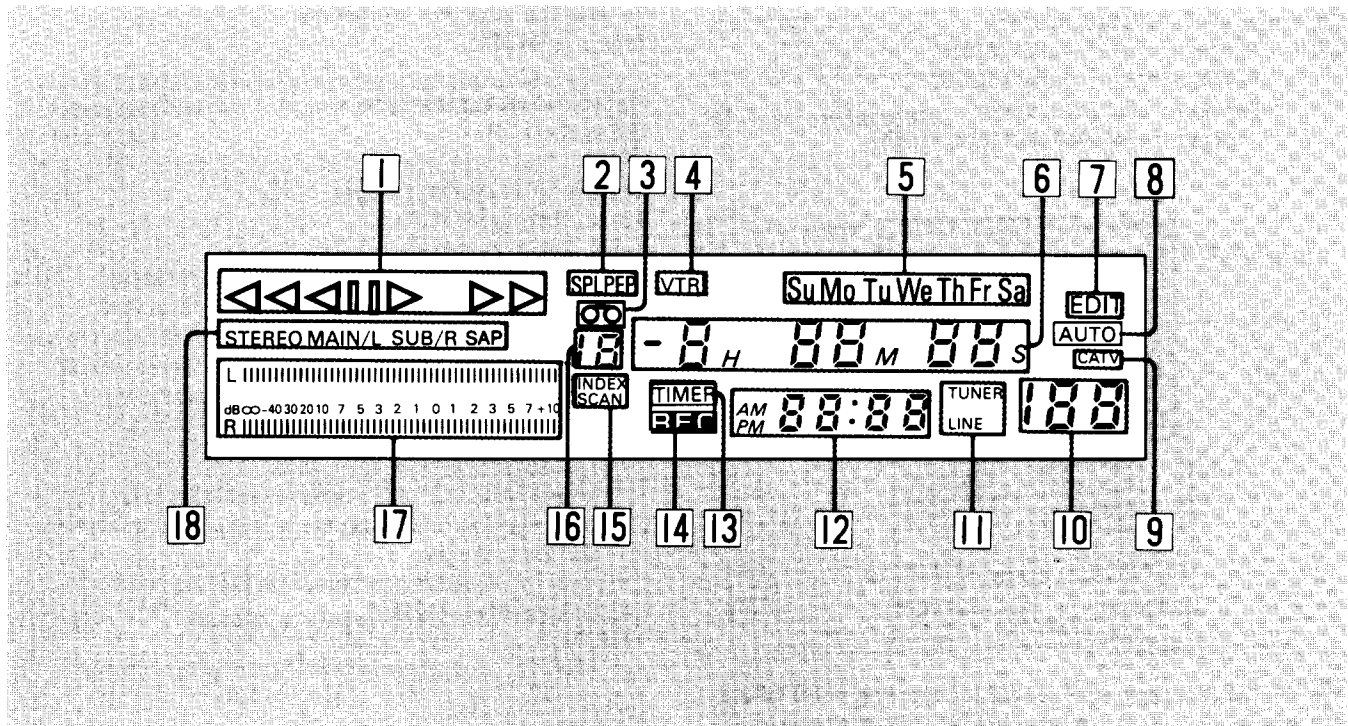
**When AUDIO INSERT is pressed**

The monaural sound will be inserted. (The picture and the hi-fi sound will be retained.)

**When VIDEO and AUDIO INSERT are pressed**

The picture, hi-fi sound and monaural sound will be inserted.

# Indications in the Display Window



- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1 <b>Tape transport indicator</b></li> <li>2 <b>Tape speed indicator</b> (LP is for playback only)</li> <li>3 <b>Cassette indicator</b></li> <li>4 <b>VTR indicator</b></li> <li>5 <b>Day of the week indicator</b></li> <li>6 <b>Linear time counter</b></li> <li>7 <b>EDIT indicator</b></li> <li>8 <b>Automatic function indicator</b></li> <li>9 <b>CATV indicator</b></li> <li>10 <b>Channel number and input mode</b></li> <li>11 <b>Input mode indicators</b></li> </ul> | <ul style="list-style-type: none"> <li>12 <b>Current time</b></li> <li>13 <b>TIMER recording indicator</b><br/>Appears while the VCR is performing timer-recording, is waiting for the turn-on time of timer recording, or is performing quick timer recording.</li> <li>14 <b>REC (recording) indicator</b><br/>Appears while the VCR is performing normal recording, timer recording, is waiting for the turn-on time of timer-recording, or is performing quick timer recording.</li> <li>15 <b>INDEX, INDEX SCAN indicator</b></li> <li>16 <b>INDEX number</b></li> <li>17 <b>Peak program meter</b></li> <li>18 <b>Stereo program/SAP indicator</b></li> </ul> |
|--|---|

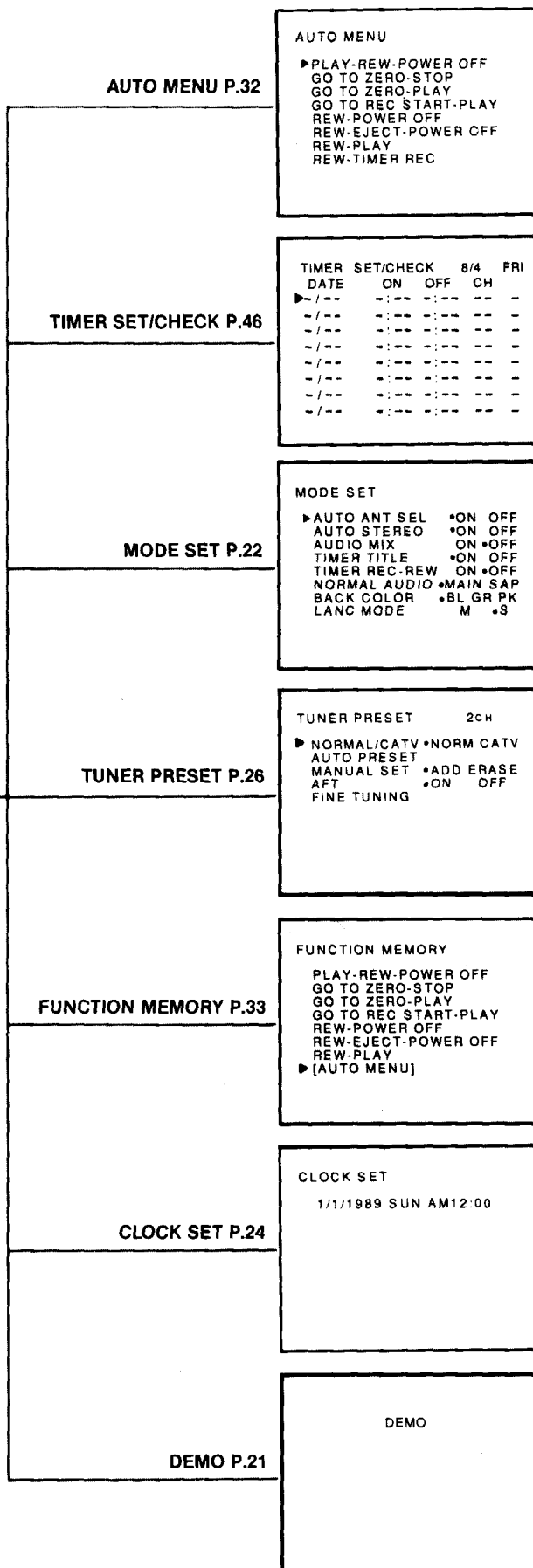


# MENU Displays

## Main MENU P.20

MENU

- ▶ AUTO MENU
- TIMER SET/CHECK
- MODE SET
- TUNER PRESET
- FUNCTION MEMORY
- CLOCK SET
- DEMONSTRATION



# Troubleshooting

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 remedies
<b>Power</b>	The POWER switch does not function.	<ul style="list-style-type: none"> <li>•The power cord is disconnected.</li> <li>•The VCR is in the timer recording standby mode.</li> </ul>
	The power is turned off.	The safety device on the VCR has been activated. Turn the power off, disconnect the power cord from the wall outlet and leave the VCR turned off for more than 1 minute.
<b>Clock and timer</b>	The clock has stopped and "AM 12:00" is blinking.	There has been a power interruption. Reset the date, clock time and timer setting.
<b>TV reception</b>	TV program is not clearly displayed on the TV screen.	<ul style="list-style-type: none"> <li>•The channel for VCR is not correctly tuned on the TV.</li> <li>•The TV signal is weak. Adjust the direction of the antenna.</li> <li>•The AC power cord of the VCR is disconnected.</li> </ul>
<b>Recording and playback</b>	Noisy picture during recording	<ul style="list-style-type: none"> <li>•The TV's channel is not set to that preset for the VCR.</li> <li>•The TV signal is weak. Adjust the direction of the antenna.</li> </ul>
	No picture on the TV screen	<ul style="list-style-type: none"> <li>•Press TV/VTR so that the VTR indication appears in the display window.</li> <li>•The TV's channel is not set to 3 CH or 4 CH, or the video input has not been selected at the monitor.</li> </ul>
	Recording cannot be made.	<ul style="list-style-type: none"> <li>•No cassette has been inserted.</li> <li>•The tape is at its end.</li> <li>•INPUT SELECT is not set correctly.</li> </ul>
	The playback picture is not clear.	<ul style="list-style-type: none"> <li>•The channel for the VCR is not correctly tuned on the TV.</li> <li>•A tape recorded on another VCR is being played back. Adjust the tracking with TRACKING NORMAL/SLOW and STILL ADJUST.</li> <li>•The video heads are dirty. Clean the heads using the Sony T-25CL video head cleaning cassette. For details on cleaning, refer to the instructions furnished with the cleaning cassette. If the cleaning cassette is not available in your area, have the heads cleaned at the nearest Sony facility.</li> <li>•If you used a commercially available wet-type cleaning cassette, it may have damaged the video heads.</li> <li>•The video heads are worn out.</li> <li>•Adjust SHARPNESS.</li> <li>•When an LP mode tape is inserted, the auto tracking function is not operable.</li> </ul>

	Symptom	Possible causes and remedies
<b>Recording and playback</b>	The picture moves vertically during picture search mode.	Adjust the vertical hold control on the TV or color monitor.
	Distorted or noisy sound	Recording level was not properly adjusted.
	Sound drop-out	<ul style="list-style-type: none"> <li>•The tape is defective.</li> <li>•Use a new video cassette tape.</li> </ul>
	Stereo recording cannot be made.	AUTO STEREO is set to OFF. (MONO)
	Both main and SAP sounds are heard when playing back a tape on which an MTS broadcast was recorded.	Select OFF on the AUDIO MIX setting.
	No sound is recorded on the normal audio track	NORMAL AUDIO is set to SAP when there is no SAP broadcast.
<b>Timer recording</b>	Timer setting cannot be made.	The current time has not been preset.
	The TIMER indicator disappears even though you pressed TIMER REC ON/OFF.	<ul style="list-style-type: none"> <li>•No cassette has been inserted.</li> <li>•The tape is at its end.</li> <li>•No timer recording setting is set.</li> </ul>
	The cassette is ejected when you press TIMER REC ON/OFF.	The safety tab of the cassette has been broken off.
	Timer recording was not be made.	<ul style="list-style-type: none"> <li>•There had been a power interruption of 3 hours or more.</li> <li>•TIMER REC ON/OFF was not pressed.</li> </ul>
<b>Data screen</b>	The data screen disappears.	<ul style="list-style-type: none"> <li>•Press DATA SCREEN.</li> <li>•The TV or color monitor is connected through the LINE OUT jack.</li> </ul>
<b>Others</b>	Cassette cannot be inserted.	Another cassette is already in the compartment.
	The Commander cannot be operated.	<ul style="list-style-type: none"> <li>•The COMMAND MODE switch has not been set correctly.</li> <li>•The batteries are exhausted.</li> </ul>
	When trying to operate the VCR with the Commander, the VCR beeps.	<p>The beep shows that the operation is not possible.</p> <p>Ex.</p> <ul style="list-style-type: none"> <li>•When you try to preset channels during recording</li> <li>•When you try to execute an AUTO MENU function during playback</li> <li>•When you try to set a timer recording before setting the clock</li> </ul>

# Specifications

## System

Video recording system	Rotary two-head helical scanning FM system
Audio recording system	Rotary two-head hi-fi system (Recording on the conventional audio track is monaural)
Video signal	EIA standard, NTSC color
Tape speed	SP: 33.35mm/sec. (1 3/8 inches/sec.) EP: 11.11mm/sec. (7/16 inch/sec.) LP: 22.22mm/sec. (7/8 inch/sec.) (playback only)
Maximum recording/ playback time	8 hours (EP), (T-160)
Fast-forward and rewind time	Approx. 4 min. (T-120)
HIGH SPEED REWIND time	Approx. 2 min. 30 sec. (T-120)
Audio frequency response	20Hz — 20kHz
Dynamic range	More than 90 dB
Wow and flutter	Less than 0.005%

## Tuner section

Tuner system (audio)	Split inter carrier system
Channel coverage	VHF channels 2 to 13 UHF channels 14 to 69 CATV channels A-8 to A-1 A to W, W+1 to W+84
Antenna	75 ohm antenna terminal for VHF/UHF

## INPUT and OUTPUT

LINE IN 1 and 2	VIDEO IN (phono jack) (1 each) input signal: 1Vp-p, 75 ohms, unbalanced, sync negative AUDIO IN (phono jack) (2 each) Input level: -7.5dBs (0 dBs= 0.775Vrms) Input impedance: more than 47 kilohms
LINE OUT	VIDEO OUT (phono jack) (1) Output signal: 1Vp-p, 75 ohms, unbalanced, sync negative AUDIO OUT (phono jack) (2) Standard output: -7.5 dBs at load impedance 47 kilohms Output impedance :less than 10 kilohms
MONITOR OUT	VIDEO OUT (phono jack) (1) Output signal: 1Vp-p, 75 ohms, unbalanced, sync negative AUDIO OUT (phono jack) (2) Standard output: -7.5dBs at load impedance 47 kilohms Output impedance: less than 10 kilohms
CONTROL S IN	Minijack (1)
CONTROL S OUT	Minijack (1)
CONTROL L	5-pin DIN connector (1)
MIC jack	Minijack (1) - 60 dBs low impedance
HEADPHONES jack	Stereo minijack (1) Output impedance:more than 8 ohms Output level: 45 mW at load impedance 8 ohms

## Timer section

Clock	Quartz locked
Time indication	12-hour cycle
Timer setting	Only for recording 8 programs over one month at max.
Power back up	Built-in self-charging battery Back-up duration: Up to 3 hours at one time

## General

Power requirements	120V AC, 60 Hz
Power consumption	36 W
AC outlet	Max. 400 W (unswitched)
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	430 × 110 × 387 mm (w/h/d) (17 × 4 3/8 × 15 1/4 inches)
Weight	Approx. 6.9 kg (15 lbs 3 oz)

## Wireless Commander RMT-V757A

Remote control system	Infrared control
Command mode	VTR1/VTR2/VTR3 selectable
Power requirements	3V DC, 2 size AA batteries (IEC designation R6)
Dimensions	62 × 20 × 175 mm (w/h/d) (2 1/2 × 13/16 × 7 inches)
Weight	100 g (3.5 oz) (excluding batteries)

## Accessories supplied

Wireless commander RMT-V757A with two size AA batteries (IEC designation R6) . . . . .	(1)
75-ohm coaxial cable with F-type connectors . . . . .	(1)
Audio connecting cable ( 2 phono to 2 phono ) . . . . .	(1)
Video connecting cable (Phono to phono) . . . . .	(1)
External antenna connector . . . . .	(1)
AC power cord . . . . .	(1)

Design and specifications are subject to change without notice.