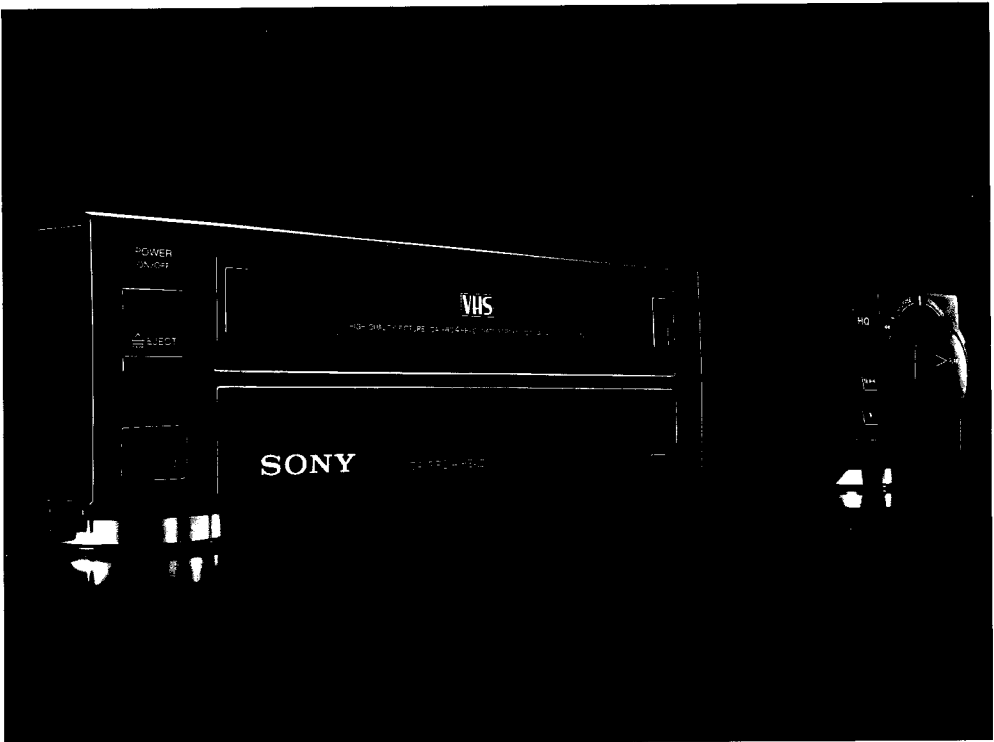


SONY

3-751-564-21 (1)

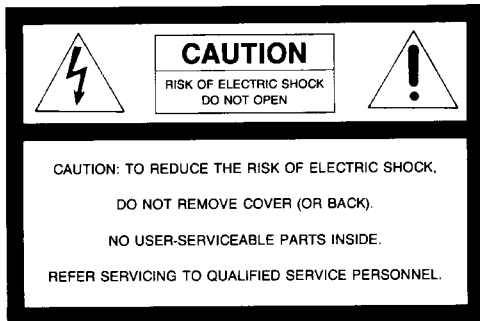
Video Cassette Recorder

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.

Owner's Record

The model number is located at the rear and front of the unit and the serial number on the top. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony service dealer regarding this product.

Model No. SLV-373UC Serial No. _____

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.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specified that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For the Customers in Canada

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.

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Precautions

On Safety

- Operate the unit only on 120V AC, 60 Hz.
- 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 loud speakers.
- 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 a qualified technician.

How to Use This Manual

This manual is arranged to help you quickly find the information you need for the operation of the SLV-373UC.

This manual consists of the following four sections.

- 1 Preliminaries
- 2 Preparations
- 3 Operations
- 4 Other Information

First, look through the Table of Contents. If you are already familiar with VCR operation, read starting from the "Preparations" section. If you are new to VCR operation, start with "Identifying the Operational Parts" (page 6) to familiarize yourself with this unit. To have a quick overview of the operation of this unit, refer to "Playing a Tape" (page 29), "Recording TV Programs" (page 36), and "Timer Recording" (page 40).

Before You Begin

- Check that the following accessories are in the carton with your unit:
 - Remote Commander RMT-V373A (1)
 - Size AA (R6) batteries (2)
 - External antenna connector (1)
 - 75-ohm coaxial cable with F-type connectors (1)
 - AC power cord (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.

Overview of the SLV-373UC

■ For Editing

- **DUAL MODE SHUTTLE ring**
Allows easy operation and quick access to the desired scene.
- **CONTROL S INPUT jack**
Allows remote control of this VCR by other Sony video equipment with a CONTROL S OUTPUT jack.
- **Input connectors on the front panel**
Offers easy connection to a video camera recorder.

■ On-screen displays

- **Data screen**
Tape counter, tape speed, operation mode, and remaining tape length are displayed on the TV screen.
- **AUTO MENU display**
Allows selection of an automatic tape operation on the TV screen.
- **TIMER SET/CHECK display**
Timer recording settings can be set and checked by referring to the TV screen.

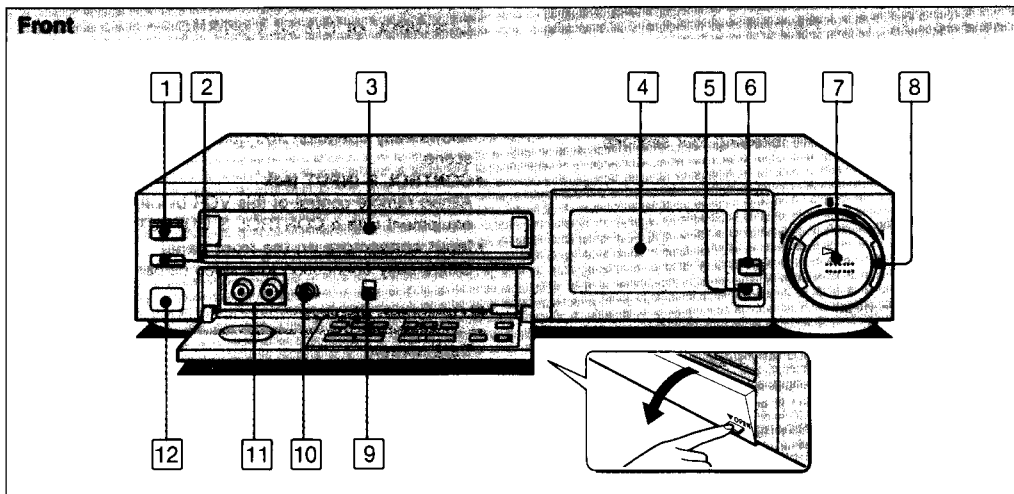
■ Convenient Functions

- **Auto tracking function**
Automatically adjusts the tracking condition for maximum picture quality.
- **Timer recordings of 8 programs over a month**
Recording of up to eight TV programs can be preset as much as one month in advance.
- **Index function**
The beginning of a desired scene can be located easily with the index mark/index search function.
- **SWING SHUTTLE dial on the Commander**
Allows playback in various speeds in forward and reverse directions.
- **Auto Head Cleaner**
The video heads will automatically be cleaned each moment the power is turned on, the tape is loaded or ejected, for at least 50,000 times.

■ High quality picture

- **High quality (HQ) picture**
The SLV-373UC provides sharp, finely detailed pictures through High Quality (HQ) picture technology.
HQ A 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.

Identifying the Operational Parts Refer to the pages indicated for details.



1 POWER ON/OFF switch and indicator
Press to turn on and off the power of the unit. The indicator lights when power is supplied.

2 EJECT button
Press to eject the cassette.

3 Cassette compartment

4 Display window and function mode display
Various displays appear. See "Indications in the Display Window." (page 57)

5 STOP button
Press to stop the tape.

6 PAUSE/STILL button (page 33)
In the playback mode: Press to obtain a still picture.
In the recording mode: Press to pause recording temporarily.

7 PLAY button
Press to playback the tape.

8 DUAL MODE SHUTTLE ring (page 33)

In the stop mode	Turn to the right (▶▶) to advance the tape rapidly, and to the left (◀◀) to rewind the tape.
In the playback mode	Turn to the right (FORWARD) to advance and to the left (REVERSE) to reverse the picture in various speeds including a still picture when the ring is released.
In the fast-forward mode	Turn to the right (FORWARD) to view the picture in fast speed. The unit will return to fast-forward when the ring is released.
In the rewind mode	Turn to the left (REVERSE) to view the picture in fast speed reverse. The unit will return to rewind mode when the ring is released.

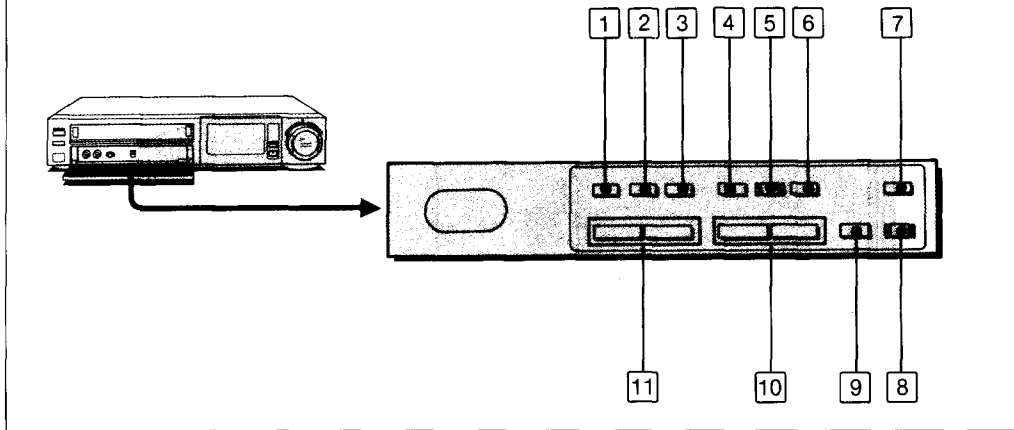
9 COMMAND MODE selector (page 9)
To remotely control this VCR with the supplied wireless Commander, set this selector to the same position as that on the Commander. Usually set to VTR 3.

10 SHARPNESS SOFT/SHARP control (page 35)
Use to adjust the sharpness of the picture if necessary. Normally set this control at the center position.

11 LINE IN 2 VIDEO and AUDIO jacks (phono type) (page 54)
Connect to the video/audio output jacks of another VCR or a video camera recorder.

12 Remote sensor
Point the supplied Commander here.

Inside of the Front Panel

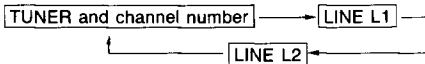


1 ANT TV/VTR button (page 37)

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 one TV program while recording another, press this button again so that the VTR indicator is turned off.

2 INPUT SELECT button (page 36)

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 (SP/EP) button (page 28)

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

4 EDIT ON/OFF button (page 53)

Normally keep this button at OFF (i.e. the EDIT indicator turned off). When using this VCR for editing, press this button so that the EDIT indicator lights.

5 TIMER REC ON/OFF button (page 41)

Press this button to enter the timer recording standby mode. Press it again to release the timer recording standby mode before changing or canceling a timer recording or to operate the unit before a timer recording starts.

6 QUICK TIMER button (page 48)

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

7 <<< HIGH SPEED REWIND button (page 30)

8 ● REC button (page 36)

9 TRACKING AUTO/MANUAL button (page 35)

Press to re-activate the automatic tracking function after using the manual tracking adjustment.

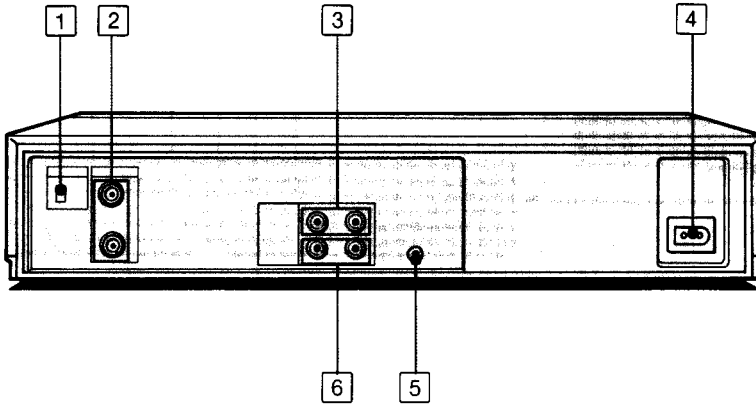
10 TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ buttons (page 34)

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

11 CHANNEL +/- buttons (page 36)

Press to select the TV channels. Press + to advance and - to go back.

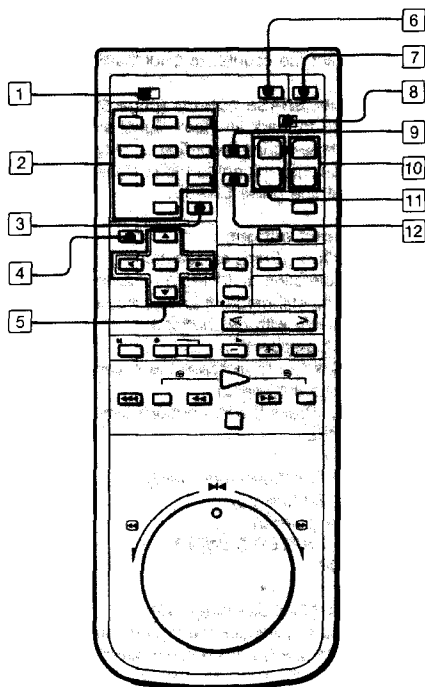
Rear Panel



- 1 RF UNIT selector (page 19)**
Use to select the channel for VCR playback, 3 CH or 4 CH, whichever is not active in your area.
- 2 VHF/UHF IN/OUT connectors (F-type) (page 13)**
Connect to the VHF/UHF connectors on your TV referring to the "Connections" section.
- 3 LINE IN 1 VIDEO and AUDIO jacks (phono type)**
Connect to the video/audio output jacks of another VCR.
- 4 AC IN jack**
Connect the supplied AC power cord. Then connect the AC power cord to the wall outlet.
- 5 CONTROL S IN jack (mini type) (page 56)**
Connect to the CONTROL S output jack of another Sony product for systematic operations such as synchronized editing.
- 6 LINE OUT VIDEO and AUDIO jacks (phono type) (page 17, 55)**
Connect to the video/audio input jacks of another VCR.


Remote Commander

- The buttons on the Commander with the same name or mark as those on the unit have the same function.
- The buttons on the Commander with a red dot is operable to control the TV even when the **TV/VTR** selector is set to **TV**.

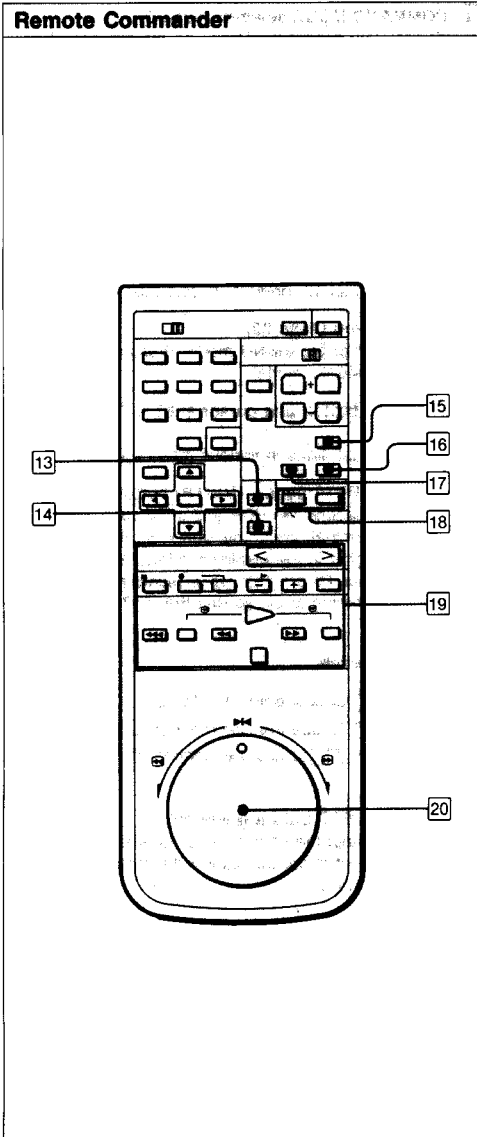


- 1 COMMAND MODE selector (page 6)**
To remotely control the VCR with the Commander, set this selector to the same position as that on the unit. Normally set to VTR 3. Change the position as shown below to control other Sony VCRs:
VTR 1: For Sony Betamax format VCRs
VTR 2: For Sony 8mm format VCRs
VTR 3: For Sony VHS format VCRs
- 2 Channel number buttons**
- 3 ENTER button**
Used to enter channel numbers. For example, to select channel 10, press 1, 0, and then ENTER.
- 4 MENU button (page 20)**
Press to enter the MENU mode. Press again to get out of the MENU mode.
- 5 EXECUTE button and cursor shift ▲/▼/◀/▶ buttons**
Use to preset items in various menu operations.
- 6 ANT TV/VTR (Antenna TV/VTR) button (page 37)**
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 one TV program while recording another, press this button again so that the VTR indicator is turned off.
- 7 POWER switch**
- 8 TV/VTR remote control selector**
Set to **VTR** to use the Commander to control the VCR. Set to **TV** to use the Commander to control the TV.
- 9 INPUT SELECT button (page 36)**
Press to select the source to be recorded. The selected input mode indicator will appear in the display window.
- 10 CHANNEL +/- buttons (page 36)**
Press to change the channel. When the **TV/VTR** remote control selector is set to **TV**, the channels on the TV can be changed. When the **TV/VTR** remote control selector is set to **VTR**, the channels on the VCR can be changed.
- 11 VOL +/- buttons**
Press to control the TV's volume.
- 12 REC MODE button (page 28)**
Press to select the recording tape speed, SP or EP. When playing back, the tape speed will be automatically detected regardless of the setting of this button.

Function of buttons **10** and **11**

These buttons can be used to remotely control Sony TVs with the  mark.

Remote Commander



13 **TIMER CLEAR button (page 45)**

Use to clear timer settings.

14 **TIMER REC (ON/OFF) button (page 41)**

Press this button to enter the timer recording standby mode. Press it again to release the timer recording standby mode before changing or canceling a timer recording or to operate the unit before a timer recording starts.

15 **INDEX button (page 51)**

Press to enter the index mode.

16 **DATA SCREEN button (page 30)**

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

17 **COUNTER RESET button (page 38)**

Press to reset the counter to 0H00M00S.

18 **INDEX MARK/ERASE buttons (page 50, 52)**

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.

19 **Tape transport buttons**

< DIRECTION > (Press to determine the direction of ▷ PLAY, x 2, and ► SLOW. During still mode, frame-by-frame picture is available with this button.)

x 2 (double-speed)

► SLOW (+: to increase the speed, -: to reduce the speed)

● REC (Press the two buttons simultaneously)

▬ PAUSE

▷ PLAY

◀/▶ SEARCH (reverse/forward)

▶▶ FF (fast-forward)

◀◀ REW (rewind)

◀◀◀ HIGH SPEED REWIND

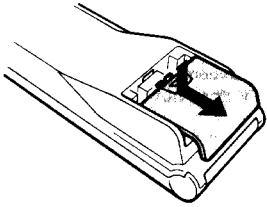
■ STOP

20 **SWING SHUTTLE dial (page 33)**

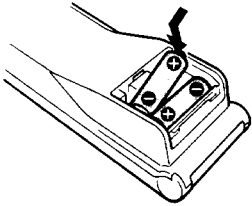
Turn the dial to playback the tape in various speeds. The available speeds are reverse search, -X2, -X1, -X1/5, still (▶◀), X1/5, X1, X2, and forward search.

Battery Insertion

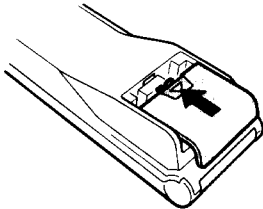
1 Open the lid.



2 Insert two size AA (IEC designation 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 to receive TV programs on this VCR, the VCR and the TV receiver must be connected properly. The connection between the two units varies depending upon the type of TV receiver and antenna that you have. We will show you some typical ways to make connections with the supplied accessories. Before operating the unit, go through this section and make the correct connections.

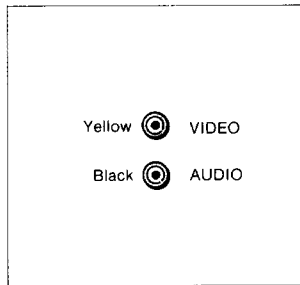
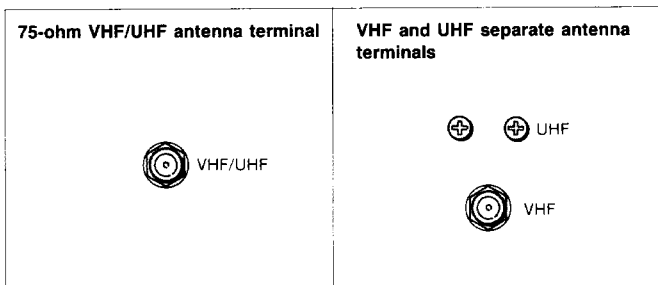
Before You Begin...

- Turn off the power to the VCR and the TV.
- Do not connect the AC power cords until all of the connections are completed.
- Make connections firmly. Loose connections may cause picture distortion.
- **If your TV does not match the three examples below...**
Consult your nearest Sony dealer or qualified technician.

First Check Your TV

If your TV does not have video and audio input jacks
Check the antenna terminals on your TV

If your TV has video and audio input jacks



Go through "Connection Examples 1 to 5" to find the appropriate connections.

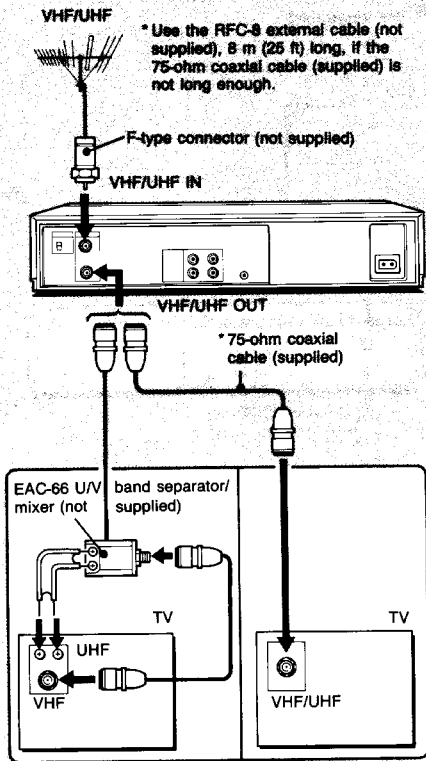
You can enjoy a better quality picture by connecting the VCR and TV via these jacks. Go to "Connection Example 6."

Then read "Setting the RF Unit" to view the playback picture of the VCR on the 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.

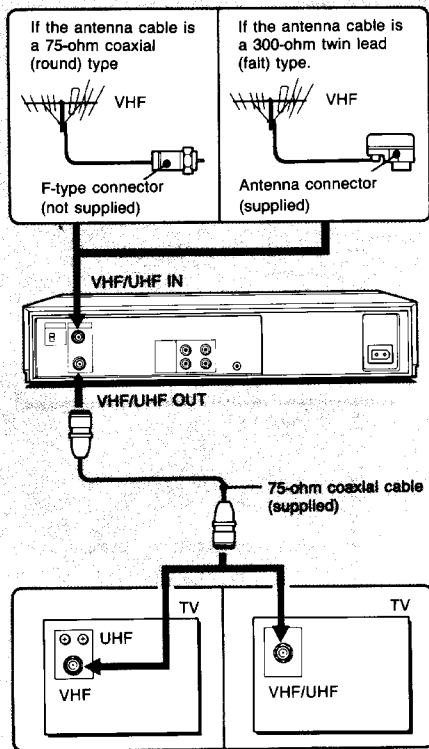
Connection Example 1 — To Connect a Combination VHF/UHF Antenna



- 1 Disconnect the TV antenna cable from the TV receiver and connect it to the VCR.
- 2 Connect the VCR and the TV.
 If the TV has a single terminal for the VHF/UHF antenna:
 Use the 75-ohm coaxial cable (supplied).
 If the TV has separate antenna terminals for VHF/UHF:
 Use the EAC-66 U/V band separator/mixer (not supplied).

How to attach the U/V band separator/mixer and the F-type connector
 See pages 18 and 19.

Connection Example 2 — To Connect a VHF Antenna Only

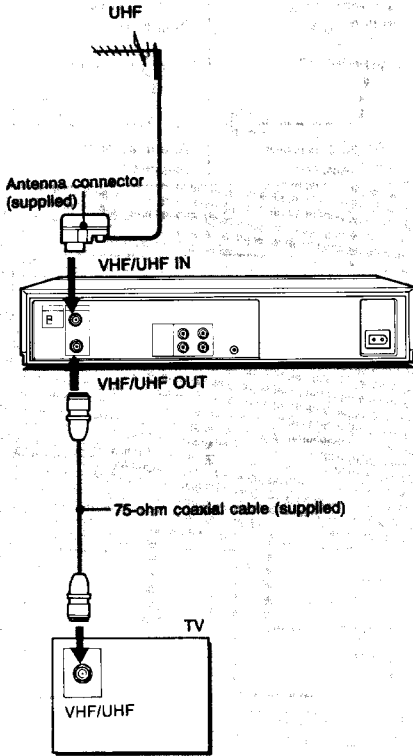


- 1 Disconnect the TV antenna cable from the TV and connect it to the VCR.
 If the antenna cable is a 75-ohm coaxial (round) type:
 Use the F-type connector (not supplied).
 If the antenna cable is a 300-ohm twin lead (flat) type:
 Use the antenna connector (supplied).
- 2 Connect the VHF/UHF OUT on the VCR and the VHF IN terminal on the TV with the 75-ohm coaxial cable (supplied).

How to attach the antenna connector and the F-type connector
 See pages 18 and 19.

Connection Example 3 — To Connect a UHF Antenna Only

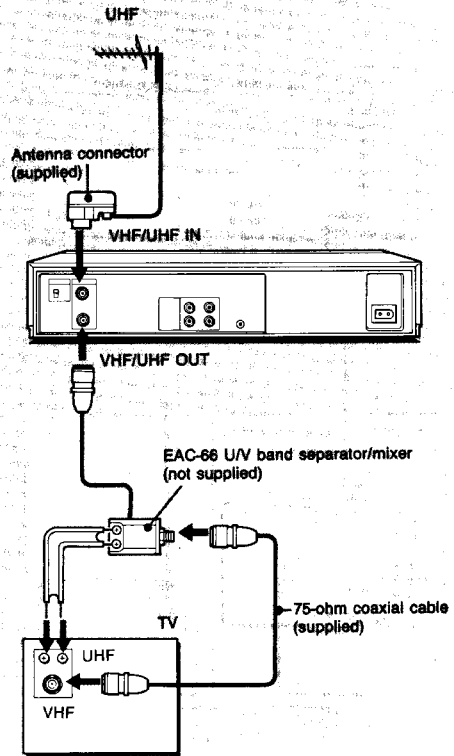
A When the VHF/UHF antenna terminal on the TV is combined



- 1 Connect the antenna connector (supplied) to the antenna cable.
- 2 Connect 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.

How to attach the antenna connector
See page 19.

B When the VHF/UHF antenna terminal on the TV are separated

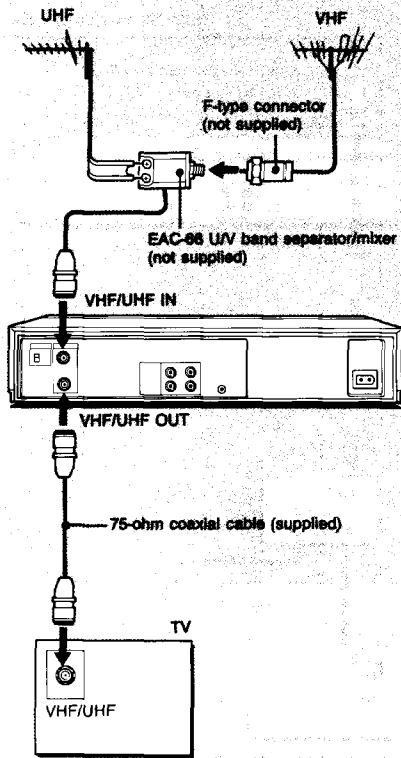


- 1 Connect the antenna connector (supplied) to the antenna cable.
- 2 Connect the antenna connector to VHF/UHF IN on the VCR.
- 3 Connect the EAC-66 U/V band separator/mixer (not supplied) to the VHF/UHF OUT on the VCR.
- 4 Connect the EAC-66 U/V band separator/mixer to the VHF and UHF antenna terminals on the TV.

How to attach the antenna connector and the U/V band separator/mixer
See page 19.

Connection Example 4 — To Connect both VHF and UHF Antennas

A When the VHF/UHF antenna terminal on the TV is combined

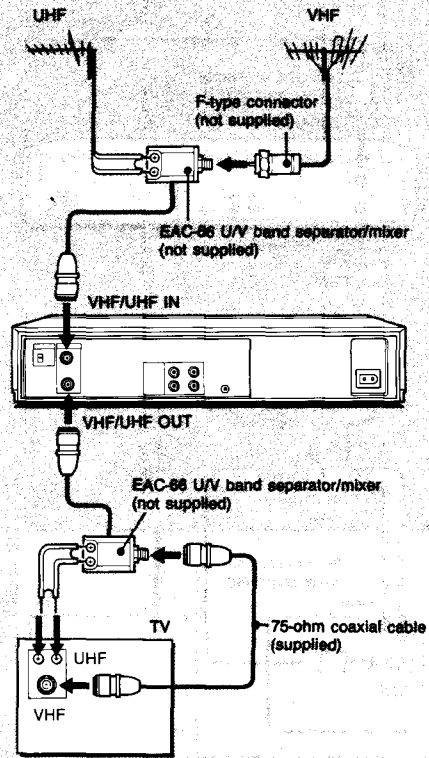


- 1 Connect the EAC-66 U/V band separator/mixer (not supplied) to the VHF and UHF antennas.
- 2 Connect the EAC-66 U/V band separator/mixer to the VHF/UHF IN on the VCR.
- 3 Connect VHF/UHF OUT on the VCR and the VHF/UHF antenna terminal on the TV.

How to attach the U/V band separator/mixer and the F-type connector

See pages 18 and 19.

B When the VHF/UHF antenna terminals on the TV are separated

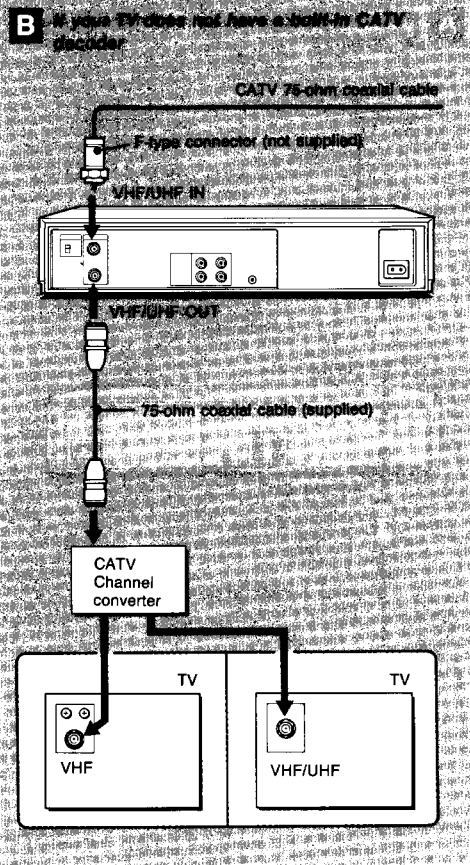
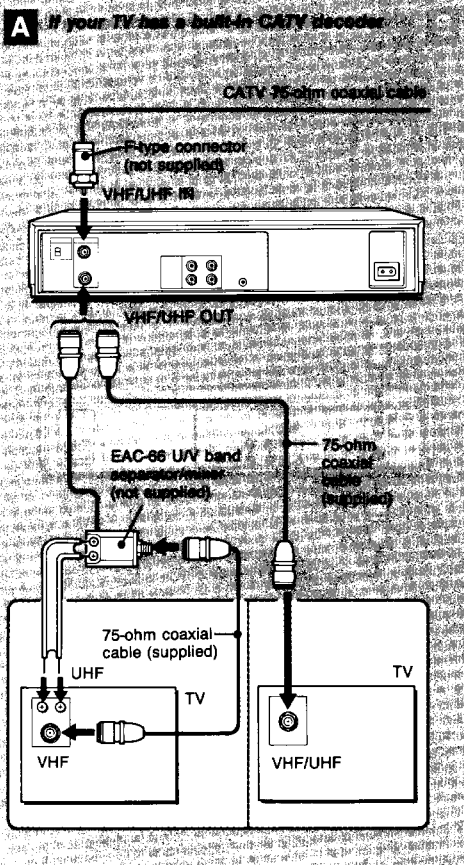


- 1 Connect the EAC-66 U/V band separator/mixer (not supplied) to the VHF and UHF antennas.
- 2 Connect the EAC-66 U/V band separator/mixer to the VHF/UHF IN on the VCR.
- 3 Connect the EAC-66 U/V band separator/mixer to the VHF/UHF OUT on the VCR.
- 4 Connect the EAC-66 U/V band separator to the VHF and UHF antenna terminals on the TV.

How to attach the U/V band separator/mixer and the F-type connector

See pages 18 and 19.

Connection Example 5 — To Connect a Cable TV System



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

How to attach the U/V band separator/mixer and the F-type connector
See pages 18 and 19.

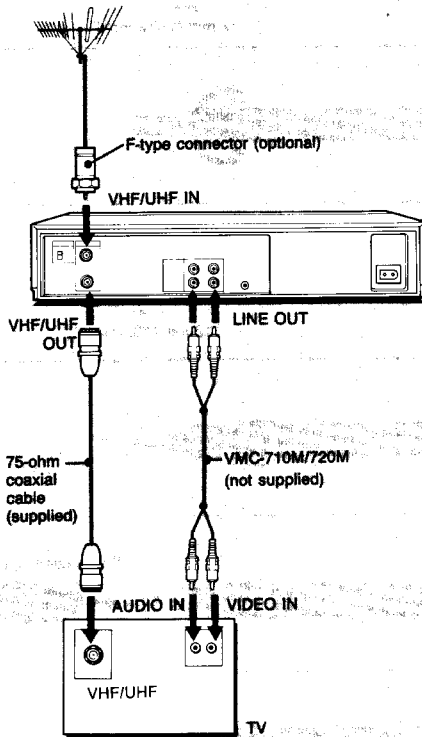
Connect the cable TV channel converter between the TV and the VCR. By setting the ANT TV/VTR switch to TV, you can watch a cable TV program while playing back or recording video sources using the VIDEO LINE IN jack on the VCR.

How to attach the F-type connector
See page 18.

Connection Example 6 — To Connect a TV Equipped with Video/Audio Input Jacks

How to attach the F-type connector
See page 18.

If your TV is a stereo type
Use the VMC-910MS/920MS connecting cable (not supplied).

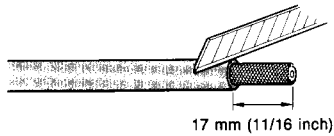


For a high-quality picture, connect a color monitor or a TV equipped with video/audio input jacks.

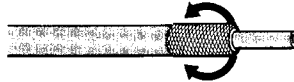
- 1** Connect the VHF/UHF antenna to the VHF/UHF IN on the VCR.
- 2** Connect the VHF/UHF OUT on the VCR and the VHF/UHF IN terminal on the TV with the supplied 75-ohm coaxial cable.
- 3** Connect the LINE OUT jacks on the VCR and the video/audio input jacks on the TV with the video connecting cable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

How to attach the F-type connector (not supplied)

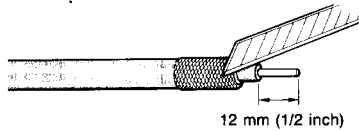
- 1** Strip 17 mm (11/16 inch) of the black polyvinyl jacket.



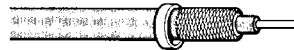
- 2** Fold back the woven wire.



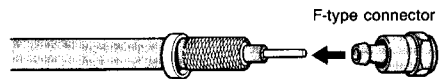
- 3** Strip 12 mm (1/2 inch) of the white plastic leaving 12 mm of the center conductor.



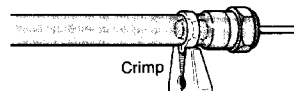
- 4** Slip the crimping ring over the cable.



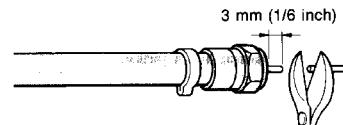
- 5** Insert the inner conductor into the F-type connector shaft and push the end of the cable into the connector as far as it will go.



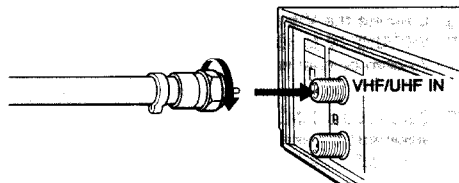
- 6** Slide the crimping ring over this assembly. Then pinch the crimping ring with pliers to hold the connection in place.



- 7** Cut the center conductor leaving 3 mm (1/6 inch) from the end.

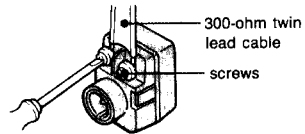


- 8** Insert the F-type connector into VHF/UHF IN on the VCR.



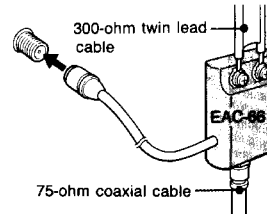
How to attach the external antenna connector (supplied)

- 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.

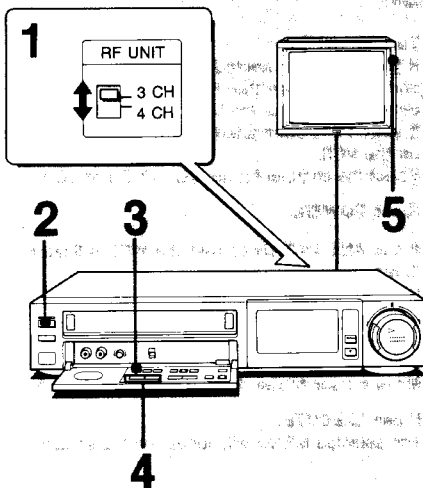


How to attach the EAC-66 U/V band separator/mixer (not supplied)

- 1 Loosen the screws on the U/V band separator/mixer.
- 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/mixer.
- 4 Connect the U/V band separator/mixer to the VHF/UHF IN on the VCR.



Setting the RF Unit



Why this setting is necessary

Your TV receiver must be set to receive the signal from your VCR. 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 3 CH, 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 ANT 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 the channel selected in step 1. The TV program selected on the VCR will appear on the screen.

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

Note

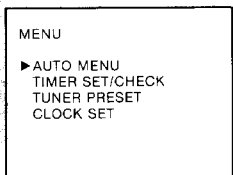
For details about TV channel adjustment, see the instruction manual of the TV.

About the MENU Display

The SLV-373UC 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.

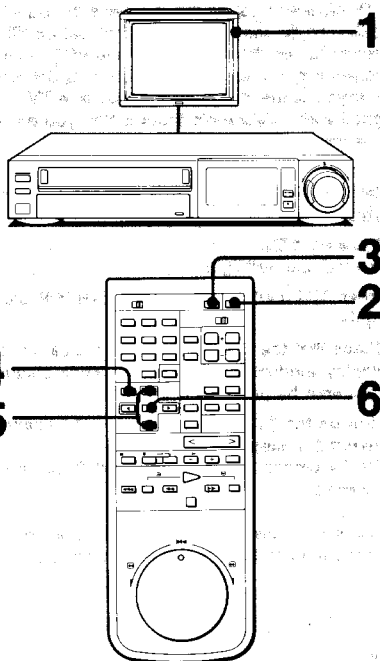
Main MENU Display



Note

The position of the cursor is retained as long as the power cord is connected.

How to Display the Main MENU



Before you begin

Check the connections between the VCR and the TV.

Operation

- 1 Turn on the TV.**
If your TV is connected to both VHF/UHF OUT and LINE OUT on the VCR.
Select the input for the VCR.
If your TV is connected only to the VHF/UHF OUT on the VCR.
Select the channel for the VCR (3 CH or 4CH).
- 2 Press POWER.**
- 3 Press ANT TV/VTR so that the VTR indicator lights.**
(Only for TVs without video/audio input jacks.)
- 4 Press MENU.**
The main MENU will appear on the screen.
- 5 Move cursor to the desired menu by ▲ or ▼.**
- 6 Press EXECUTE.**
The selected MENU will appear on the screen.

To erase the main MENU display
Press MENU again.

To display other MENU displays
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.

Details of Each Menu

Here is a list of the menus in the main MENU. For details, refer to the sections indicated.

AUTO MENU	Use to select an automatic tape operation. See "Presetting the VCR's Operation — Auto Play" (page 31).
TIMER SET/CHECK	Use to preset a timer recording and let's you check the settings. See "Timer Recording" (page 40).
TUNER PRESET	Use to preset the active channels in your area. See "Presetting Active Channels" (page 24).
CLOCK SET	Use to set the clock. See "Date and Clock Setting" (page 22).

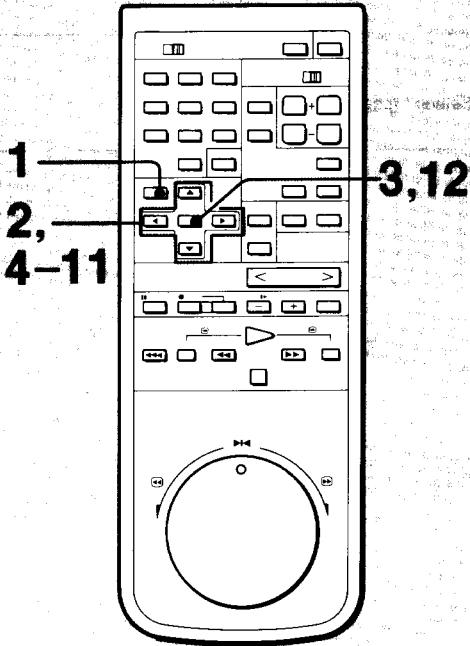
Date and Clock Setting

You can set the date and clock on the TV screen with the Commander. Note that AM 12:00 is midnight and PM 12:00 is noon.

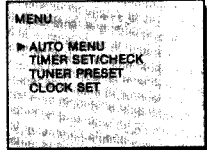
Operation

Example: To set to 3:32 pm, October 26, 1990.

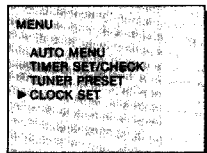
Use ▲ and ▼ to change the numbers.
Use ◀ and ▶ to change the blinking items.



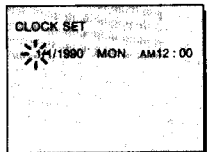
1 Press MENU.



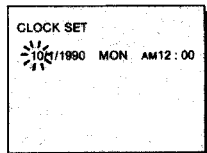
2 Move cursor to CLOCK SET.



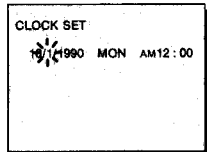
3 Press EXECUTE.
"1/1 1990 MON AM 12:00" will be displayed. The left most 1, in the "month" position, is blinking.



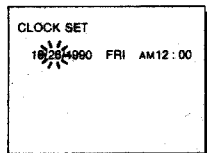
4 Press ▲ or ▼ until 10 appears in the month position.



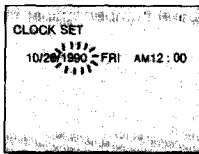
5 Press ▶ to make the next number, in the "day" position blink.



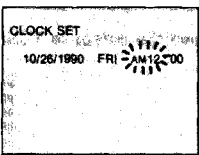
6 Press ▲ or ▼ until 26 appears in the day position. The day of the week is automatically set.



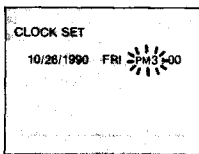
- 7** Press **▶** to make the year blink and press **▲** to change the year if necessary.



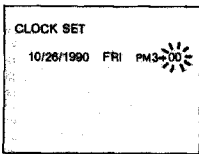
- 8** Press **▶** to make the time blink.



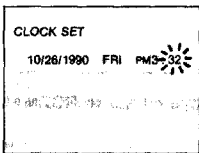
- 9** Press **▲** or **▼** until **PM 3** appears.



- 10** Press **▶** to make the minute blink.



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



- 12** Press **EXECUTE** simultaneously with a time signal.
Press of **EXECUTE** will set the clock to 3:32 pm 00 seconds.

To recall the date and clock on the screen
Select **CLOCK SET** in the main **MENU** and press **EXECUTE**.

Notes

- You can set the clock except during timer recording, timer recording standby, quick timer recording.
- When the date and clock are called up on the screen, the clock keeps running as long as no modification is made. The seconds will not be reset to 00 when you return to the original screen.

Presetting Active Channels

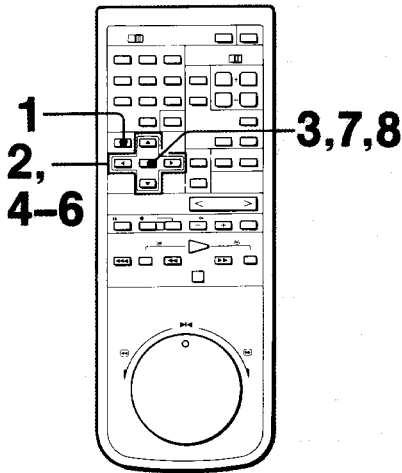
This VCR is capable of receiving VHF channels 2 to 13, UHF channels 14 to 69, and CATV channels 1 to 125. These channels can be preset on the TV screen using the Commander and the TUNER PRESET display. First, we recommend that you preset the active channels in your area using the automatic preset mode. Then, if there are any unwanted channels, delete them manually. If you've already decided which channels you wish to preset on the VCR, set them directly by using the channel number buttons.

Before Presetting Channels

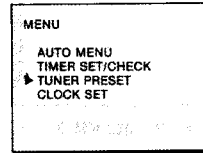
- Turn on the VCR and the TV.
- If you've connected the TV and the VCR using the VHF/UHF OUT on the VCR only, make sure that the TV is set to the correct channel (3 or 4) for the VCR.
- Press ANT TV/VTR to display the VTR indicator.
- Press INPUT SELECT so that the TUNER indicator and channel number appear in the display window.

To Preset All Receivable Channels Automatically

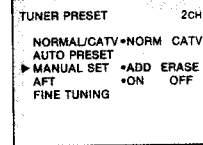
Use ▲ and ▼ to move the cursor.
Use ◀ and ▶ to select the items.



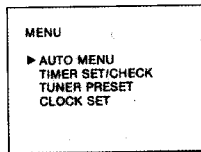
2 Move the cursor to TUNER PRESET.



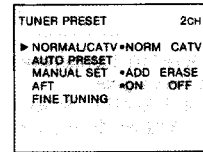
3 Press EXECUTE. The TUNER PRESET display will appear.



1 Press MENU.



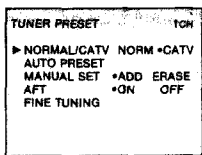
4 Move cursor to NORMAL/CATV.



5 Select NORM to preset VHF and UHF channels.

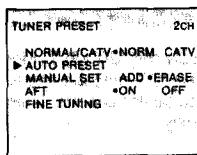
Select CATV to preset cable TV channels.

The lowest channel number, 2 for NORM and 1 for CATV will appear on the screen.

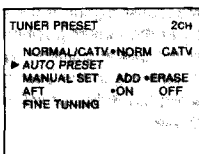


7 Press EXECUTE.

Receivable channels will be preset in numerical sequence. When no more channels can be found, the presetting will stop and the picture of the lowest numbered channel will be displayed with the tape counter.

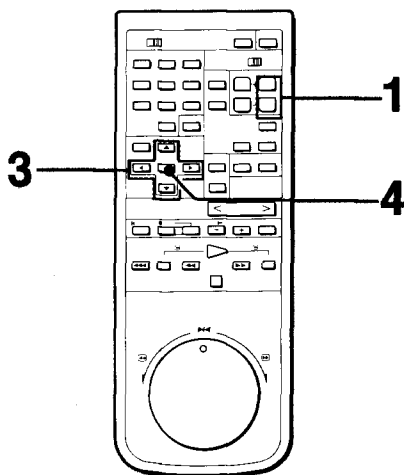


6 Move cursor to AUTO PRESET.



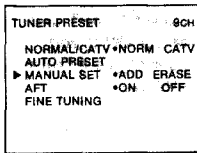
To Preset Only the Desired Channels or to Erase Unnecessary Channels

Use ▲ and ▼ to move the cursor.
Use ◀ and ▶ to select the items.



1 After automatic presetting is over, press CHANNEL +/- to select the channels 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 channels will be skipped and the added channels will be displayed.

Fine-tuning

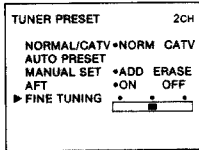
Normally the AFT (Auto Fine Tuning) setting is set to ON and the AFT function fine-tunes the picture. If the picture of a particular channel is not acceptable, fine-tune manually.

Operation

- 1 Call up the TUNER PRESET display referring to steps 1 to 3 in "To Preset Desired Channels Automatically."

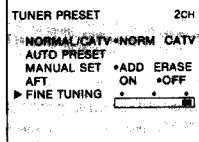
- 2 Press **▲** or **▼** to move the cursor to FINE TUNING.

The fine tuning indicator will appear.

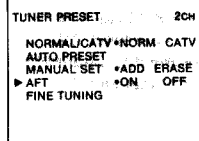


- 3 Press **◀** or **▶** to get a clearer picture.

The AFT ON/OFF will automatically be switched to OFF.



- 4 Press **▲** to move the cursor to AFT and select ON if you cannot get a better picture.



- 5 Press EXECUTE.

About the FINE TUNING indicator

The FINE TUNING indicator shows the operable fine-tuning range. When the VCR's tuner is receiving a broadcast signal in the best condition, the indicator will be at the center position or within one space right or left of the center position. However, even when a broadcast is received in the best condition, there may be cases when the indicator will not be at the position explained above.

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 adopt either the HRC^{*1} or IRC^{*2} 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. Channels 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.

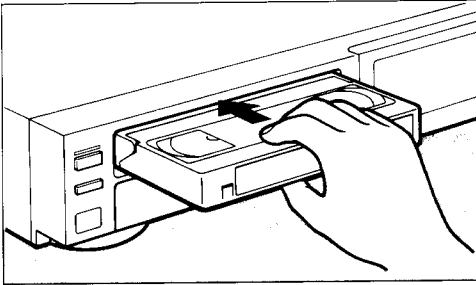
Note

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 the cassette fully into the compartment by slowly pressing its center with the arrow indication facing upwards. If the AC power cord is connected to the wall outlet, the power will be automatically turned on.



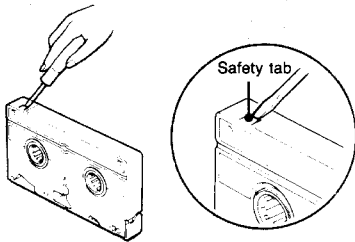
Ejecting a Cassette

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.

To Avoid Erasing Previously Recorded Video Cassette

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

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



Maximum Recording Time of a Tape

Recording in the SP or EP mode is possible with this unit. When recording, select the desired recording mode (SP or EP) with REC MODE on the Commander or the unit. During playback, the unit automatically detects the recording format, and then plays back the tape in the appropriate mode. A tape recorded in the EP mode runs three times as slowly as a tape recorded in the SP mode. Refer to the chart below for the recording/playback time available in each mode.

Cassette tape	Recording/Playback Time	
	SP mode	EP mode
T-160	2 hr. 40 min.	8 hr.
T-120	2 hr.	6 hr.
T-60	1 hr.	3 hr.
T-30	30 min.	1 hr. 30 min.

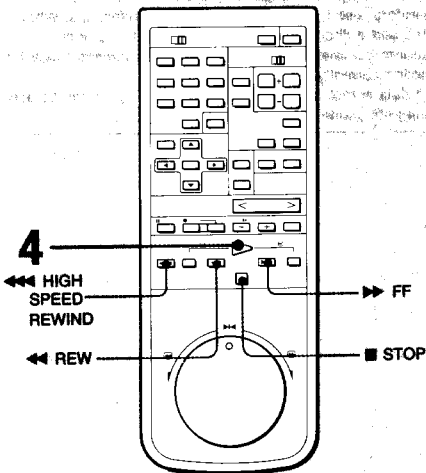
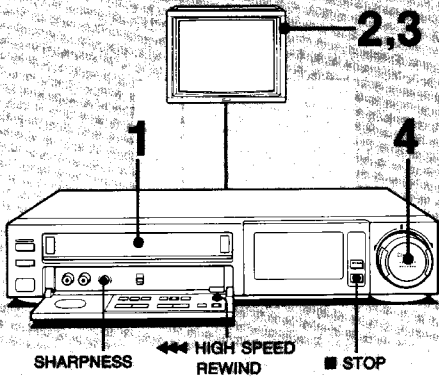
Tapes Recorded in LP Mode

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 function.

Playing a Tape

In this section, we will explain the operations and functions related to tape playback.

Basic Playback



- 1 Insert a cassette.
- 2 Turn on the TV.
- 3 If your TV is connected to both VHF/UHF OUT and LINE OUT on the VCR. Select the input for the VCR.
If your TV is connected only to the VHF/UHF OUT on the VCR. Select the channel for the VCR (3 CH or 4 CH).
- 4 Press ▷ PLAY.

To stop playback

Press **■ STOP**.

To advance the tape rapidly

During stop mode:

Turn the DUAL MODE SHUTTLE ring to the right (**▶▶**).

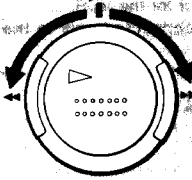
Press **▶▶ FF** on the Commander.

To rewind the tape

During stop mode:

Turn the DUAL MODE SHUTTLE ring to the left (**◀◀**).

Press **◀◀ REW** on the Commander.



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

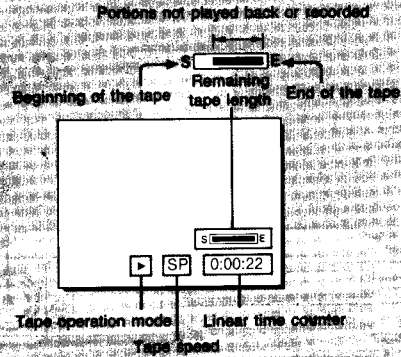
Turn the SHARPNESS control toward SOFT.

When the tape is played back to the end

The tape will be automatically rewound to the beginning (auto rewind). The power will remain on.

About the Data Screen

To erase or call up the data screen on the display, press **DATA SCREEN** on the Commander.



Notes

- The remaining tape length displayed 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 non-standard commercially available tape, this indicator may not function correctly.
- The data screen display cannot be called up on the screen during still mode or slow motion playback.

Presetting the VCR's Operation - Auto Play

By selecting the desired operation in the AUTO MENU and pressing EXECUTE, an operational sequence of several steps can be started automatically.

Operation

<p>Use ▲ and ▼ to move the cursor.</p>	<p>1 Press MENU when the VCR is in the stop mode.</p>	
	<p>2 Move the cursor to AUTO MENU.</p>	
	<p>3 Press EXECUTE. The AUTO MENU will appear.</p>	
	<p>4 Move the cursor to the desired tape operation.</p>	
	<p>5 Press EXECUTE. The selected tape operation will start. The selected tape operation mode will be indicated on the screen for several seconds and the AUTO indicator appears in the display window.</p>	

To return to the previous screen without making any selection from the AUTO MENU
Press MENU.

When the power is turned off
The cursor will stay at the last position it was set to.

Note on the auto play operation
You can preset the auto play operation only when the VCR is in the stop mode.

What does each operation indicator mean?

PLAY - REW - POWER OFF

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

GO TO ZERO - STOP

The tape is fast-forwarded/rewound to the counter zero position, and stops.
See "Tape Return" (page 38) for detailed operation.

GO TO ZERO - PLAY

The tape is fast-forwarded/rewound to the counter zero position, and then is played back.
See "Tape Return Play" (page 38) 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 rewound to its beginning and the power is turned off.

REW - EJECT - POWER OFF

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

REW - PLAY

The tape is rewound to its beginning and then is played back.

REW - TIMER REC

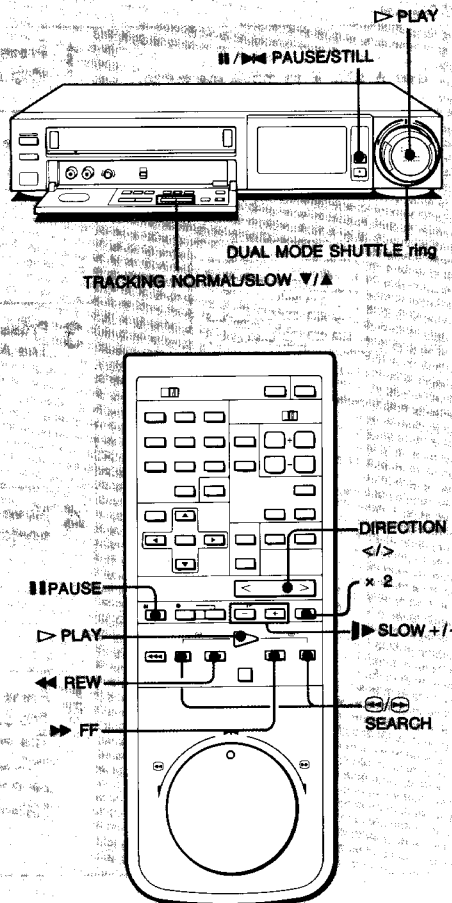
The tape is rewound to its beginning and the VCR enters the standby mode for timer recording.
This function is possible only when a timer recording has been preset.

Notes on "GO TO REC START - PLAY"

The memory of the recording start position will be erased and "GO TO REC START - PLAY" will not be operable in the following cases:

- You pressed COUNTER RESET.
- You ejected and inserted the cassette.
- You pressed ◀◀ HIGH SPEED REWIND.

Various Playback Modes



To obtain a still picture

During playback mode, press **PAUSE/STILL** on the unit or **PAUSE** on the Commander. To resume normal playback, press **PLAY**, **PAUSE/STILL**, or **PAUSE**. When the pause mode lasts for more than 5 minutes, the unit will re-enter the playback mode automatically.

To search for a particular scene - Picture search

During playback or still 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 unit will return to the previous mode.

To watch the picture during high speed playback - Locked picture search

During the playback or still 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 slow motion playback

During playback or still mode, press **SLOW +** or **-** on the Commander. Change the slow motion speed with the **+** or **-** buttons. Press **+** to increase the playback speed, and **-** to decrease the playback speed.

To see the picture momentarily while the unit is in the fast-forward or rewind mode

During fast-forward mode, turn the **DUAL MODE SHUTTLE** ring to the right (**▶▶**) or press **FF** on the Commander.

During rewind mode, turn the **DUAL MODE SHUTTLE** ring to the left (**◀◀**) or press **REW** on the Commander.

The high speed playback picture can be seen as long as the ring is held in that position, or the button is pressed. Release the ring or button to return to the previous mode.

To watch a playback picture at 2 times the normal speed

During playback or still mode, press **x 2** on the Commander.

To watch reverse direction playback, slow and x 2 picture

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

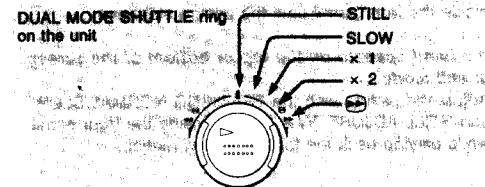
To watch a frame-by-frame picture

During still mode, press **>** 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 playback.

To enjoy various playback mode using the DUAL MODE SHUTTLE ring

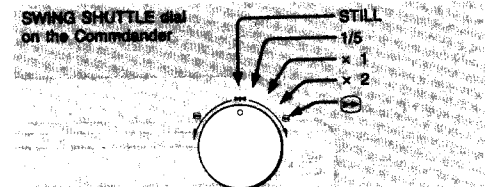
Various playback modes as illustrated can be selected with **DUAL MODE SHUTTLE** ring from any playback mode. The same speed is available in the reverse direction. Releasing the **DUAL MODE SHUTTLE** ring makes a still picture.

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



To enjoy various playback modes using the SWING SHUTTLE dial on the Commander

Various playback modes as illustrated can be selected with the dial from any playback mode. The same speed is available in the reverse direction. Releasing the dial makes a still picture. To resume normal playback press **PLAY**.



How to Adjust the Picture Manually in Various Playback Modes

If streaks or noise appear on a slow motion picture

Adjust the picture with the TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ buttons inside the front panel. The picture can be adjusted more easily by changing the speed closer to normal playback by pressing ► SLOW +.

Note

Streaks or noise cannot be completely eliminated in the reverse direction playback or in reverse slow modes.

If the picture appears to shake in the still mode

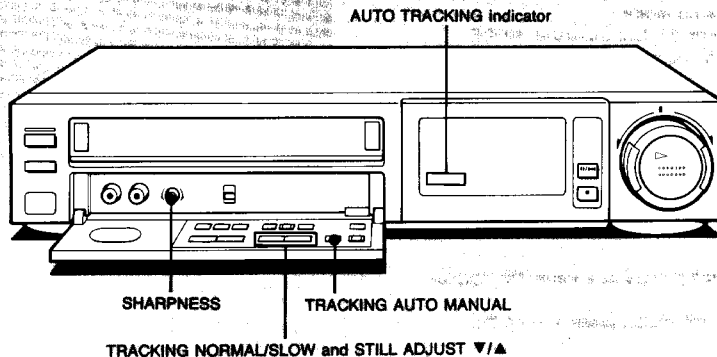
Adjust the picture with the STILL ADJUST ▼/▲ buttons inside the front panel until the picture stabilizes.

If a band appears on the top or bottom of the screen in still mode

Adjust the picture with the TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ buttons inside the front panel while playing back the tape in a slow motion.

Playing Back a Tape Recorded on Another VCR

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



Adjusting the sharpness

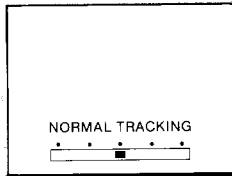
Turn the SHARPNESS control toward SHARP to obtain a sharper picture. Turn it toward SOFT to obtain a softer picture.

Adjusting the tracking

Automatic tracking adjustment

The tracking condition is automatically adjusted on this VCR. The AUTO TRACKING indicator blinks while the VCR is searching for the best tracking condition and lights when maximum playback picture is obtained. The automatic tracking control is activated in the following conditions:

- when the cassette is inserted for the first time.
- when the recording mode on the playback tape is switched between SP and EP.
- when the picture is distorted by scratches on the tape.
- when the AUTO TRACKING indicator is turned on by pressing TRACKING AUTO/MANUAL after the picture is adjusted manually.



Manual tracking adjustment

When the playback picture proves to have streaks or snow during normal playback, adjust the picture manually with TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲.

Press either ▼ or ▲ to obtain the best possible picture. The tracking meter will appear on the TV screen and the AUTO TRACKING indicator will be turned off.

When the manual adjustment proves unsatisfactory, press both of the TRACKING NORMAL SLOW and STILL ADJUST ▼/▲. The tracking condition will return to the center position.

Notes

- Auto tracking adjustment is not possible for tapes recorded in LP mode.
- Auto tracking adjustment may be impossible and the tracking indicator may not appear on the TV screen when the recording condition of the tape is poor.
- During auto tracking adjustment, streaks or noise may appear.
- When DATA SCREEN on the Commander is pressed, the tracking indicator will not appear on the TV screen.

Recording TV Programs

Before You Begin

Check the following points:

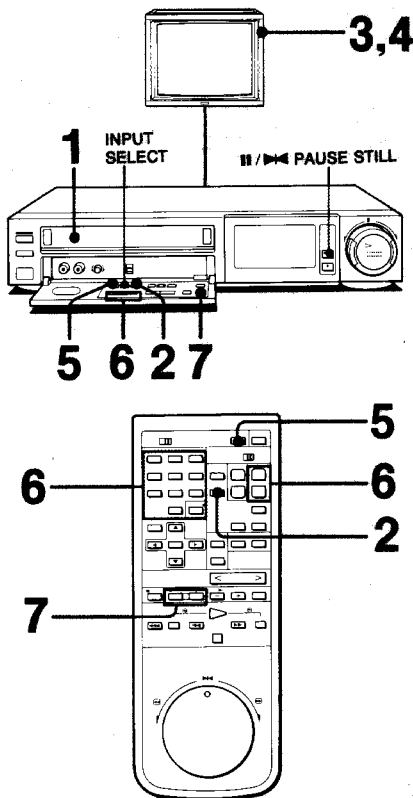
Check the connections

Make sure that the connections have been made correctly.

Check the input mode indicator

Press INPUT SELECT to light TUNER in the display window.

Operation



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.

- 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 connected to both VHF/UHF OUT and LINE OUT on the VCR.**
Select the input for the VCR.
If your TV is connected only to the VHF/UHF OUT on the VCR.
Select the channel for the VCR (3 CH or 4 CH).
- 5 Press ANT TV/VTR so that the VTR indicator lights.**
Skip this step if your VCR is not connected via the VHF/UHF antenna terminal.
- 6 Select the channel to be recorded with CHANNEL +/- or channel number buttons and ENTER.**
- 7 Press the two ● REC buttons on the Commander simultaneously or the ● REC button only on the unit.**

To stop recording

Press ■ STOP.

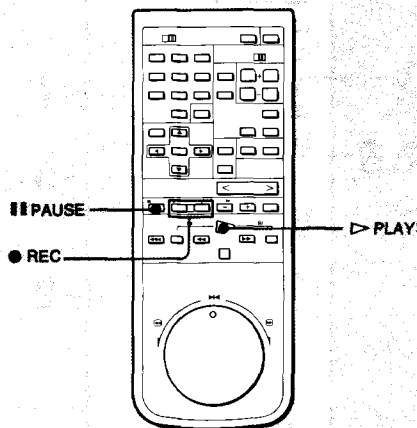
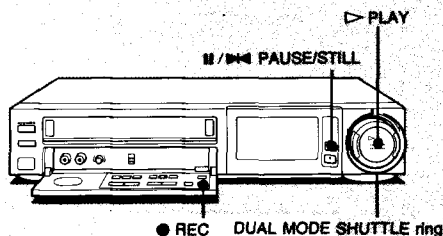
To stop the tape for a moment

Press ■/▶ PAUSE/STILL on the unit or ■ PAUSE on the Commander. To resume recording, press ■/▶ PAUSE/STILL or ■ PAUSE. When the recording pause mode lasts for more than approximately 5 minutes, the unit will enter the stop mode.

When the tape reaches its end

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

Temporarily Stopping Recording at a Particular Point



Watching One TV Program While Recording Another

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

What the VTR indicator in the display window

VTR indicator	Picture on the TV screen
Lit	Channel selected by the VCR or the playback picture of the VCR
Unlit	Channel selected by the TV

Technique 1

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

- 1 Press **II / PAUSE/STILL** or **II PAUSE** when an unwanted scene appears. Recording will stop and the VCR will enter the recording pause mode.
- 2 Press **II / PAUSE/STILL** or **II PAUSE** at the desired point to release the pause mode. Recording will resume from the point set in step 1.

Technique 2

When an unwanted scene has already started to be recorded, you can return the tape to the desired point, have the VCR standby in the recording pause mode, and resume recording at the desired scene smoothly.

- 1 Set the VCR to the recording pause mode.
- 2 Turn the **DUAL MODE SHUTTLE ring** to the left and search for the point from which you wish to continue recording.
- 3 Release the **DUAL MODE SHUTTLE ring** at the desired point. After an instant of STILL mode, the VCR will automatically enter the recording pause mode.
- 4 Press **II / PAUSE/STILL** or **II PAUSE**. Recording will resume.

To Record a Program without Watching the TV

Turn off the power of the TV or color monitor. There will be no interference to the recording.

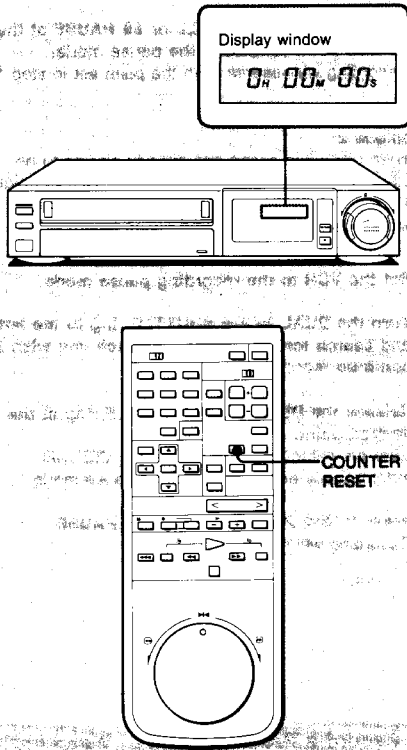
Note

If you are using a color monitor, you cannot watch another program during recording unless the monitor has an internal TV tuner.

Use of the Tape Counter

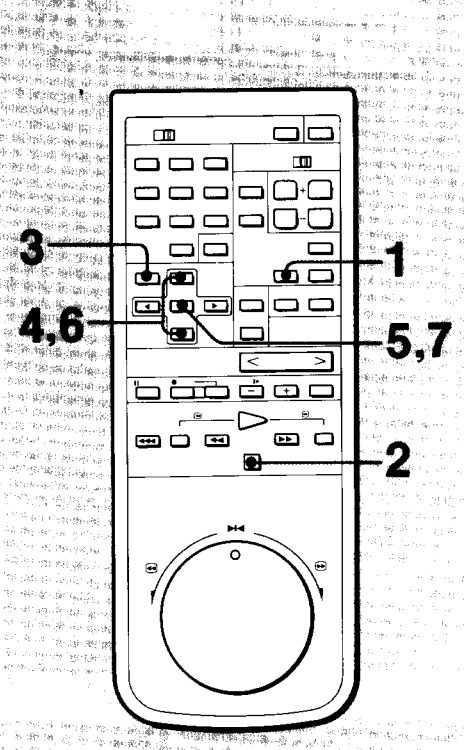
Indexing the Tape Contents

Before starting recording or playback, press COUNTER RESET to reset 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.



Tape Return/Tape Return Play

This section describes the functions of the remote control buttons for tape return and tape return play. The diagram shows the remote control with numbered callouts 1 through 7 pointing to specific buttons.



Note on counter reading

After a cassette is ejected, the counter reading is retained, however when a cassette is inserted again, the counter will return to "0H00M00S."

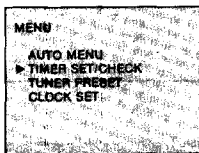
Tape return

To stop the tape at a particular point.

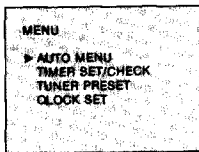
1 During playback or recording, press **COUNTER RESET** at the point you want to locate later.
The tape counter will display "0H00M00S."

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

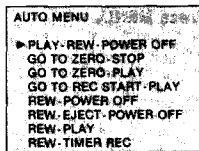
3 Press **MENU**.



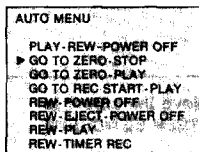
4 Move the cursor to **AUTO MENU**.



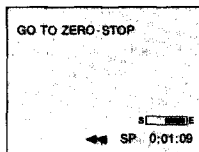
5 Press **EXECUTE**.
AUTO MENU display will appear.



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



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



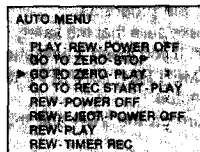
Tape return play

To start playback automatically from the counter zero point.

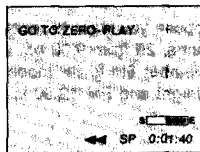
1 Follow steps 1 to 5 in "Tape return."

1
5

6 Move the cursor to **GO TO ZERO - PLAY**.



7 Press **EXECUTE**.



Notes

- The tape counter does not work when the inserted tape has no recordings.
- There may be a difference of several seconds between the **COUNTER ZERO** position and the position detected by the VCR.

Timer Recording

You can preset up to eight recordings as much as one month in advance. The recordings can be preset with the Commander while only referring to the TIMER SET/CHECK display on the TV screen.

Before You Begin

- The date and clock must be set correctly. (See "Date and Clock Setting" on page 22.)
- Make sure that the cassette tape is long enough to record all the programs.
- Make sure that the safety tab on the cassette is not broken off. If you insert a cassette without its safety tab and press TIMER REC (ON/OFF), the cassette will automatically be ejected.
- Turn on the VCR and the TV.

Recording from today to one month later

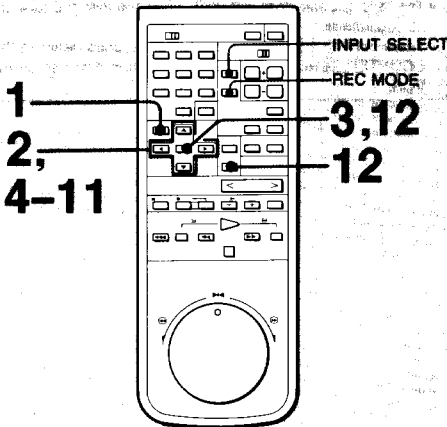
If today is August 31st, you can set the timer to record a program broadcast between today and September 30 (for 31 days). If today is January 31st, you can set the timer to record a program broadcast between today and February 28th (for 29 days). A leap year is automatically considered.

Timer Setting Example

Suppose you want to record a program broadcast on channel 26 from 9:00 pm to 10:55 pm on Thursday November 8th in SP mode. Note that AM 12:00 is midnight and PM 12:00 is noon.

Operation

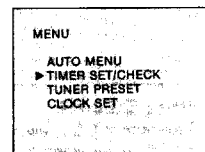
Use ◀ and ▶ to select the items.
Use ▲ and ▼ to change the numbers.



1 Press MENU.



2 Move the cursor to TIMER SET/CHECK.



- 3** Press EXECUTE. The TIMER SET/CHECK display will appear on the screen. When the clock is not set properly, a short beep alerts you. Return to "Date and Clock Setting" (page 22) to reset the clock.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 8** Press ▶. The on-time will blink under "OFF". Set the turn-off time referring to steps 6 and 7.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 4** Press ▶. Make sure that today's date is flashing. If not, re-set the correct time. See "Date and Clock Setting" (page 22).

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
10/26 FRI	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 9** Press ▶ to flash the CH position then press ▲ or ▼ until 26 appears. Only the channels set in the VCR will appear. The CHANNEL +/- and ENTER or channel number buttons can also be used.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00 PM 10:55	---	---	26
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 5** Press ▲ to set the month and date to 11/8 THU. The day of the week is automatically set.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 10** Press ▶ to flash the recording speed position then ▲ or ▼ until SP appears. REC MODE can also be used.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00 PM 10:55	---	---	26 SP
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 6** Press ▶ to flash the hours section under "ON" then ▲ or ▼ until PM 9 appears.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 11** Press ▶ to store the setting. When all of the settings stop flashing with a ▶ on the left most position indicates that this setting has been completed.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00 PM 10:55	---	---	26 SP
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 7** Press ▶ to flash the minute section under "ON" then ▲ or ▼ until 00 appears.

TIMER SET/CHECK	10/26	FRI	
DATE	ON	OFF	CH
11/8 THU PM 9:00	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 12** Press EXECUTE. Press TIMER REC (ON/OFF) to enter the timer recording standby mode.

To change or correct the setting before completing it
Press ◀ to return to the item to be changed.

To preset another program

Move the cursor to the second line after step 11 and repeat steps 4 to 11.

To record video sources from LINE IN 1 or 2 jacks

Press INPUT SELECT in step 4 to 10 to call up LINE 1 or 2 under the "CH" position. The indication will return to channel numbers on the third press.

Problem when TIMER REC (ON/OFF) is pressed

The cassette is ejected automatically.	The safety tab on the inserted cassette has been removed.
The TIMER indicator does not appear.	<ul style="list-style-type: none">• No cassette has been inserted.• The tape is at its end.

If a power interruption occurs

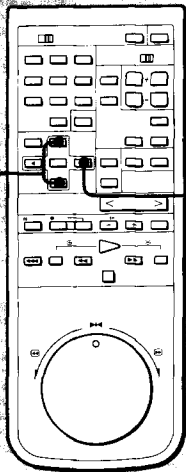
- If a power interruption lasting less than approximately one hour occurs while the VCR is waiting for the preset time, the VCR will re-enter the timer recording standby mode.
- If a power interruption lasting more than approximately one hour occurs before a timer recording, the memory will be cleared.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

Every Week and Every Day Recording

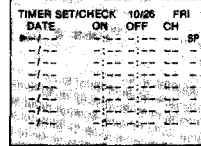
Weekly or daily timer recording can be set on this VCR. This function is convenient if, for example, you wish to record the same program on the same day of the week.

Operation

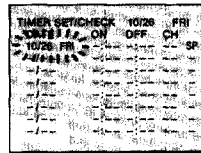
Use ▲ or ▼ to move the cursor and to change the items.
Use ◀ or ▶ to make the desired items blink.



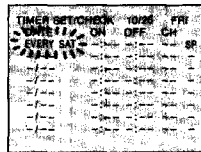
- 1** Follow steps 1 to 3 in "Timer Recording" (page 40).



- 2** Press ▶ to make the DATE position blink.



- 3** Change the indication under DATE. Each press of ▲ changes the indication as follows. ▼ changes the indication in the reverse direction.



Example: Today is October 26th.

10/26 FRI (Today)	→	10/27 SAT	→	10/28 SUN	...	11/25 SUN (1 month later)
↑						↓
SUN—SAT (Every day of the week)						EVERY SUN
						↓
						EVERY MON
						↓
						EVERY TUE
						⋮
MON—SAT (Every day except Sunday)		MON—FRI (Every day except Saturday and Sunday)				EVERY SAT

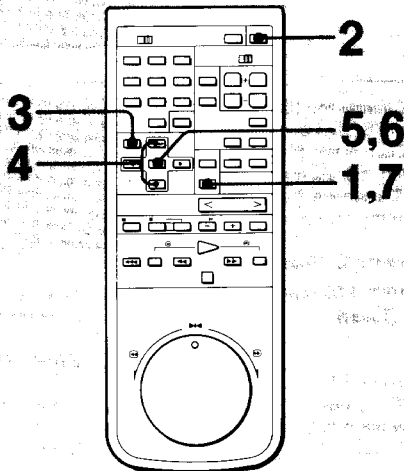
- 4** Follow steps 6 to 12 in "Timer Recording" (page 41).

To Check Timer Settings

You can display all of the timer settings on the TV screen to check the settings.

Operation

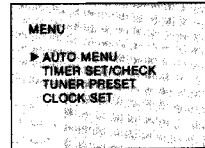
Press ▲ or ▼ to move the cursor.



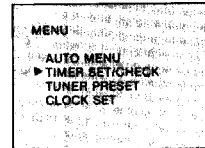
1 Press **TIMER REC (ON/OFF)** to turn off the **TIMER** indicator in the display window.

2 Press **POWER**.

3 Press **MENU**.



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



5 Press **EXECUTE**.
The **TIMER SET/CHECK** display appears.



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

7 Press **TIMER REC (ON/OFF)** to return to the timer recording standby mode.

The **TIMER SET/CHECK** display

When a recording is set for only one day, that setting will be erased from the **TIMER SET/CHECK** display after the recording is over.

To check the timer settings during timer recording

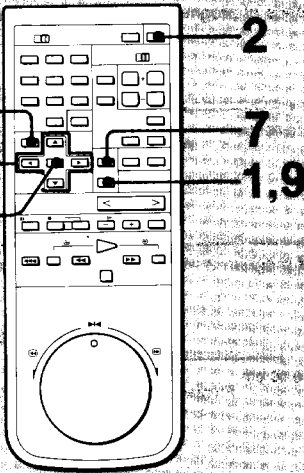
Follow steps 3 to 6 above.

To Change or Cancel the Timer Settings

The timer settings can be changed or canceled by referring to the TIMER SET/CHECK display.

Operation

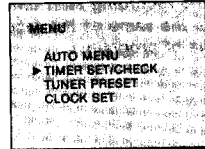
Use ▲ and ▼ to move the cursor.
Use ◀ and ▶ to change the blinking positions.



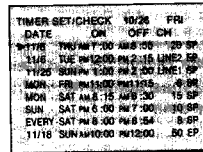
3 Press MENU.



4 Move the cursor to TIMER SET/CHECK.



5 Press EXECUTE.
TIMER SET/CHECK display appears.



6 Move the cursor to the program you wish to change or cancel.



1 Press TIMER REC (ON/OFF) to turn off the TIMER indicator in the display window.

7 To change it, make the item to be changed blink by pressing ◀ or ▶ and make the required changes by pressing ▲ or ▼.
To cancel it, press TIMER CLEAR.

2 Press POWER.

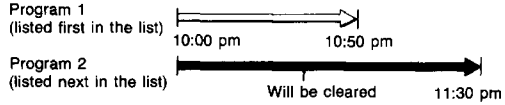
8 Press EXECUTE to store the changes and to return to the original screen.

9 Press TIMER REC (ON/OFF) to return to the timer recording standby mode.

When Preset Timer Recordings Overlap

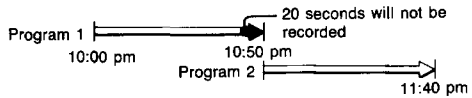
If the turn-on time of two programs are the same

The program listed first on the TIMER SET/CHECK display has priority over the other programs. The timer recording parameters of lower priority programs will be erased from the TIMER SET/CHECK display when recording starts.



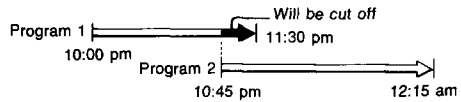
If the recording start time of program 2 is the same as the recording end time of program 1

The last 20 seconds of program 1 will not be recorded.



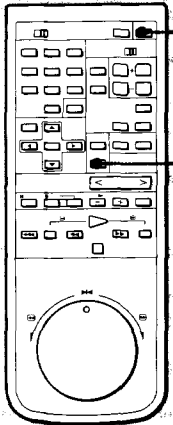
If the recording start time of program 2 comes before recording of program 1 is over

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



Using the VCR before Timer Recording Starts

If you want to use the VCR when it is in the timer recording standby mode, you must first turn off the TIMER indication in the display window and get out of the timer recording standby mode.

	1 Press TIMER REC (ON/OFF) so that the TIMER indicator in the display window is turned off.
	2 Turn on the power of the VCR. Now the VCR is ready to be used.
	3 After using the VCR, press TIMER REC (ON/OFF) to return to the timer recording standby mode and to light the TIMER indicator.

After Entering the Timer Recording Standby Mode

Automatic power on

The VCR is automatically turned on when the set time comes and starts recording. When it completes recording, the power is automatically turned off.

To stop recording activated by the timer

Press **TIMER REC (ON/OFF)**.

Buttons which can be operated during timer recording

- **TIMER REC (ON/OFF)**
- **COUNTER RESET** (See "Use of the Tape Counter" page 38.)
- **ANT TV/VTR** (See "Watching One TV Program While Recording Another" page 37.)
- **DATA SCREEN** (See "Playing a Tape - About the Data Screen" page 30.)
- **INDEX MARK** (See "Index Function" page 50.)
- **MENU** (For checking the programs only. See "To Check Timer Settings" page 44.)

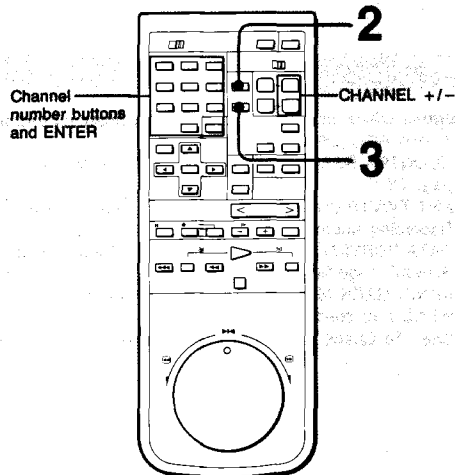
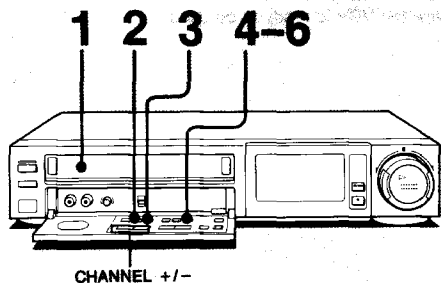
Quick Timer Recording

This function is convenient when, for example, you want to set the VCR to start recording immediately without going through the whole timer setting procedure. However, the quick timer recording function only provides a very rough setting for the desired program.

Before You Begin

- Press **TIMER REC (ON/OFF)** if the **TIMER** indicator is turned on.
- If you are currently recording, perform step 6 only.

Operation



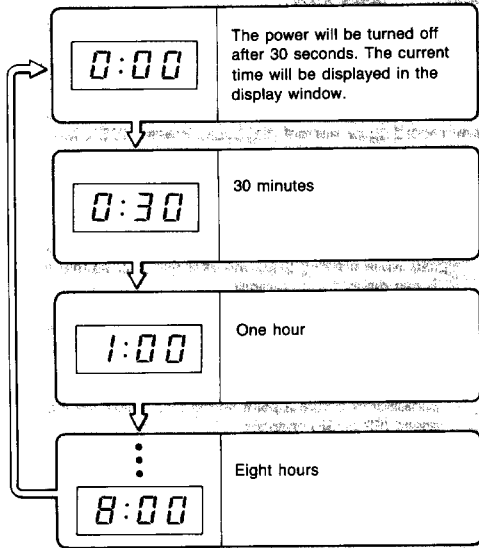
- 1** Insert a cassette.
- 2** Press **INPUT SELECT** so that the **TUNER** indicator is turned on.
- 3** Press **REC MODE** to decide the tape speed, **SP** or **EP**.
- 4** Press **QUICK TIMER** on the **VCR**. Select the channel for recording with **CHANNEL +/-** or channel number buttons and **ENTER** while the channel display is blinking.
- 5** Press **QUICK TIMER** again to start recording.
- 6** To decide the recording duration, press **QUICK TIMER** to change the duration indicator. Every press of **QUICK TIMER** increases the recording duration in units of 30 minutes.

You can leave your VCR after turning off the TV. The VCR will automatically be turned off when the recording is finished.

If a cassette without its safety tab is inserted
The cassette will be ejected automatically when you press **QUICK TIMER**.

Recording Duration Indicator

Every time you press QUICK TIMER, the recording duration indicator will change as shown in the illustration. The recording duration can be changed by pressing QUICK TIMER even during quick timer recording. The duration indicator counts down the recording time, minute by minute, during recording.



Buttons Operable during Quick Timer Recording

TIMER REC (ON/OFF)	To stop quick timer recording.
QUICK TIMER	To change recording duration.
COUNTER RESET	To reset the tape counter to zero.
INDEX MARK	To record an index signal.
ANT TV/VTR	To watch the picture broadcast on another channel.
MENU	Only operable to check the timer recording settings. (See "To Check Timer Settings.")

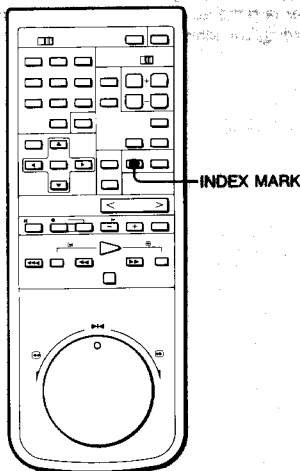
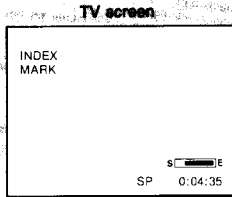
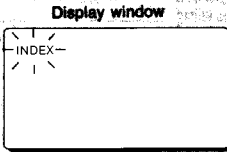
If the tape runs out during quick timer recording
Recording will stop and the power will be turned off. The tape will not be rewound automatically.

If a power interruption occurs during quick timer recording
Recording will stop and the power will be turned off. If the power interruption lasts less than one hour and the power is restored before the recording end time, recording will start again from that point.

Index Function

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

To Mark Index Signals



The INDEX indicator blinking in the display window and the INDEX MARK display on the TV screen show that an index signal has been marked.

Automatic index mark

An index signal is automatically marked at the beginning of recording.

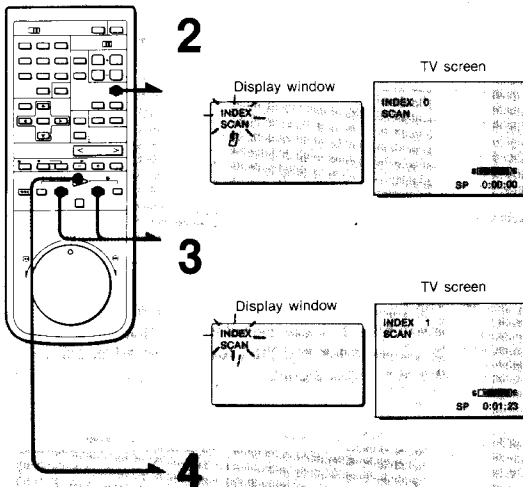
Manual index mark

Index signals can be marked at any desired point during any recording or normal playback. Press INDEX MARK to mark an index signal.

Notes

- Leave an interval of more than 2 minutes between index signals when marking them one after the other so that the VCR can detect them 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.

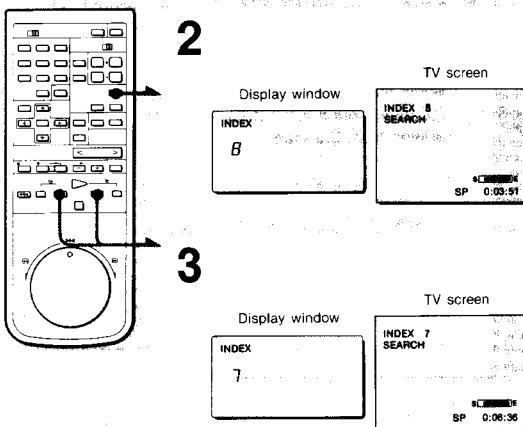
Index Scan



The beginning of each program can be found and played back by using the index signals.

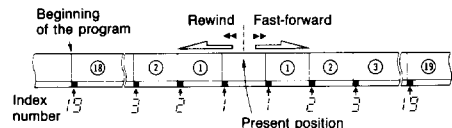
- 1** Insert a cassette with index signals.
- 2** Press **INDEX** once.
The **INDEX** and **SCAN** indicator blinks alternately.
- 3** To scan the previous programs, press **◀ REW**. To scan the programs ahead, press **▶ FF**.
The **INDEX SCAN** indicator will blink continuously while scanning. The tape will be rewound or rapidly advanced to the next marked index signal. The tape will be played back for approximately 10 seconds from the index signal, and then be rewound or advanced to the next index signal. Every time an index signal is detected and playback begins, the displayed index number will increase.
- 4** When the desired program is detected, press **▷ PLAY**.
Playback will start from that point.

Index Search



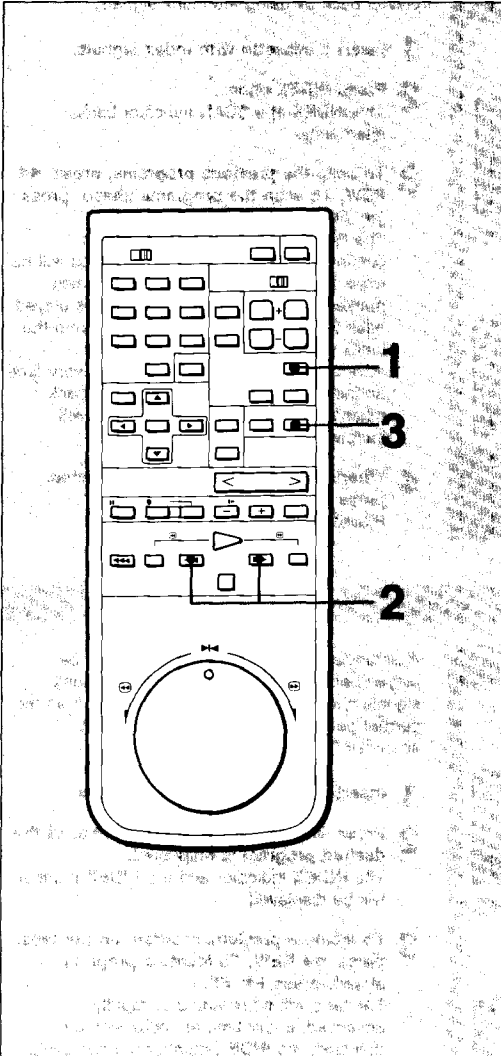
A particular program can be located and be played back by designating how many index signals ahead or behind that program is from the current position. Up to 19 indexes can be searched for.

- 1** Insert a cassette with index signals.
- 2** Press **INDEX** until the index number of the desired program is displayed.
The **INDEX** indicator and the **INDEX** number will be displayed.
- 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** number will decrease. When the number reaches 0, playback of your desired program will begin.

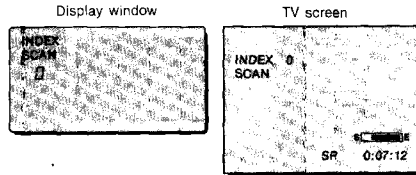


Erasing Index Signals

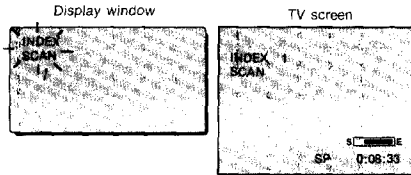
Unnecessary index signals can be erased.



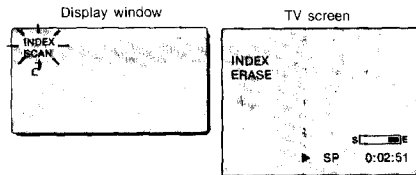
- 1** Press **INDEX** once.
The **INDEX** and **SCAN** indicator blinks alternately.



- 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** When you reach the index signal you wish to erase, press **INDEX ERASE** within approximately 10 seconds after you have verified the playback picture.
The **INDEX** indicator blinks.
While the index signal is being erased, the recorded sound will not be heard, but it will not be erased from the tape.



Notes

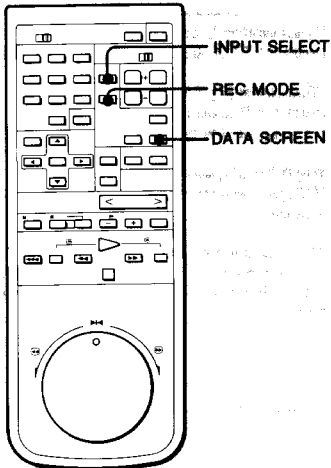
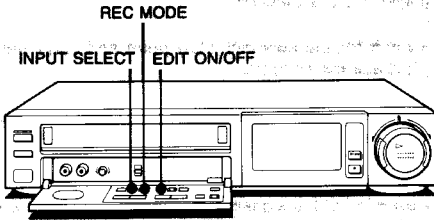
- Index signals marked on a portion of tape just before or after the recording modes, **SP** and **EP**, are switched cannot be erased.

- Index signals marked on an **LP** mode tape cannot be erased.

Editing with Another VCR

Using an additional VCR, you can create your original video program tapes.

Before You Begin



When using the SLV-373UC as the recording VCR

Before editing, check these settings:

- **INPUT SELECT:** Select LINE 1 or LINE 2, whichever the playback VCR is connected to.
- **REC MODE:** Select SP or EP.
- **EDIT indicator:** Press EDIT ON/OFF to light the EDIT indicator.

When using the SLV-373UC as the playback VCR

Before editing, check these settings:

- **EDIT indicator:** Press EDIT ON/OFF to light the EDIT indicator.
- **DATA SCREEN:** Press to erase the on-screen displays.

Caution

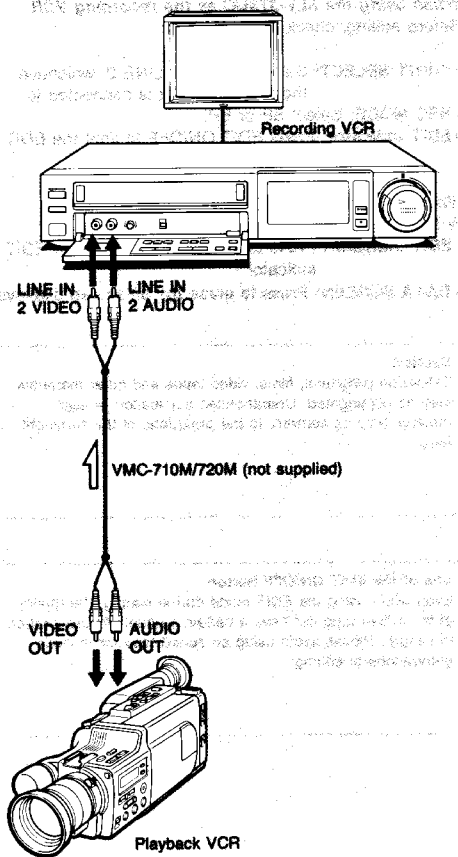
Television programs, films, video tapes and other materials may be copyrighted. Unauthorized duplication of such material may be contrary to the provisions of the copyright laws.

Use of the EDIT ON/OFF button

Even when using the EDIT mode during editing, the quality of the edited tape will have a certain amount of deterioration in picture. Please avoid using an edited tape for multiple generations of editing.

Editing with a VCR without a Sony Control Terminal

Using this VCR as the Recording VCR and an 8 mm Video Camera Recorder as the Playback VCR



- 1 Insert a cassette for recording into the recording VCR.
- 2 Turn on the power of the playback VCR and insert a source cassette.
- 3 Activate the EDIT mode on the recording VCR. Activate the EDIT mode on the playback VCR if the player has this function.
- 4 Search for the playback start point and enter the playback pause mode.
- 5 Search for the recording start point and enter the recording pause mode.
- 6 Press the PAUSE button on both of the units. Recording of the signals from the playback VCR will start.

When editing is completed

Press the STOP button on both of the VCRs.

When pressing PAUSE

Press the PAUSE button on the playback VCR a little before pressing the one on the recording VCR.

When the playback VCR is a stereo unit

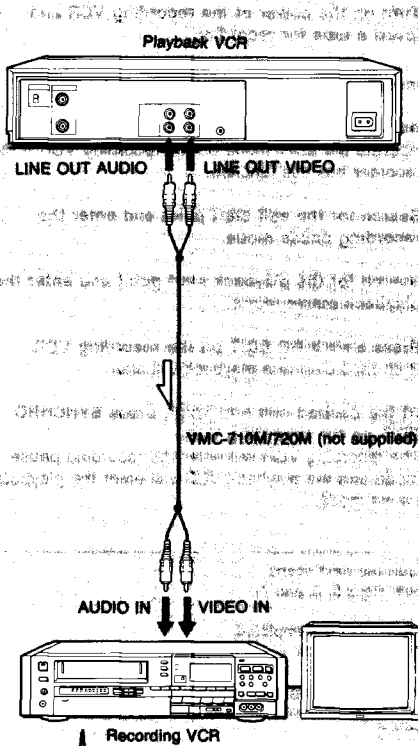
Make connections with the VMC-910MS/920MS cable (not supplied).

When connecting the VCRs

Do not connect both LINE IN and LINE OUT jacks on the two VCRs simultaneously. Doing so may cause a humming noise.

➔ Signal flow

Using this VCR as the Playback VCR and a Betamax VCR as the Recording VCR



INPUT SELECT: Select external video or line
Other settings: Set for recording

← **Signal flow**

- 1** Turn on the power of the recording VCR and insert a cassette for recording.
- 2** Insert a source cassette into the playback VCR.
- 3** Activate the **EDIT mode on the playback VCR**. Activate the EDIT mode on the recording VCR if the recorder has this function.
- 4** Search for the playback start point and enter the playback pause mode.
- 5** Search for the recording start point and enter the recording pause mode.
- 6** Press the **PAUSE** button on both of the units. Recording of the signals from the playback VCR will start.

When editing is completed
 Press the STOP button on both of the units.

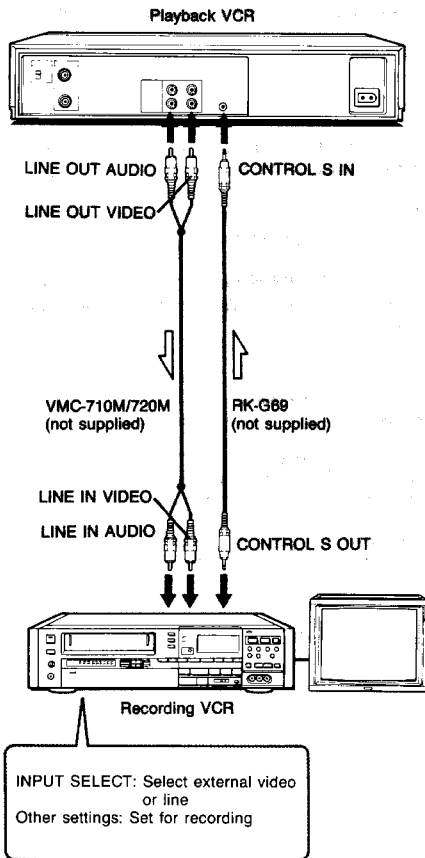
When pressing PAUSE
 Press the PAUSE button on the playback VCR a little before pressing the one on the recording VCR.

When the recording VCR is a stereo unit
 Make connections with the VMC-910MS/920MS cable (not supplied).

When connecting the VCRs
 Do not connect both LINE IN and LINE OUT jacks on the two VCRs simultaneously. Doing so may cause a humming noise.

Editing with a VCR with a Control S Out Terminal

Using this VCR as the Playback VCR and Another VCR with a Control S OUT Terminal and the Synchro Edit Function as the Recording VCR



- 1 Turn on the power of the recording VCR and insert a tape for recording.
- 2 Insert a source tape into the playback VCR.
- 3 Activate the EDIT mode on the playback VCR. Activate the EDIT mode on the recording VCR if the recorder has this function.
- 4 Search for the edit start point and enter the recording pause mode.
- 5 Search for the playback start point and enter the playback pause mode.
- 6 Press SYNCHRO EDIT on the recording VCR. Both recording and playback will start.
- 7 At the desired edit end point, press SYNCHRO EDIT on the recording VCR. The recording VCR will enter the recording pause mode and the playback VCR will enter the playback pause mode.

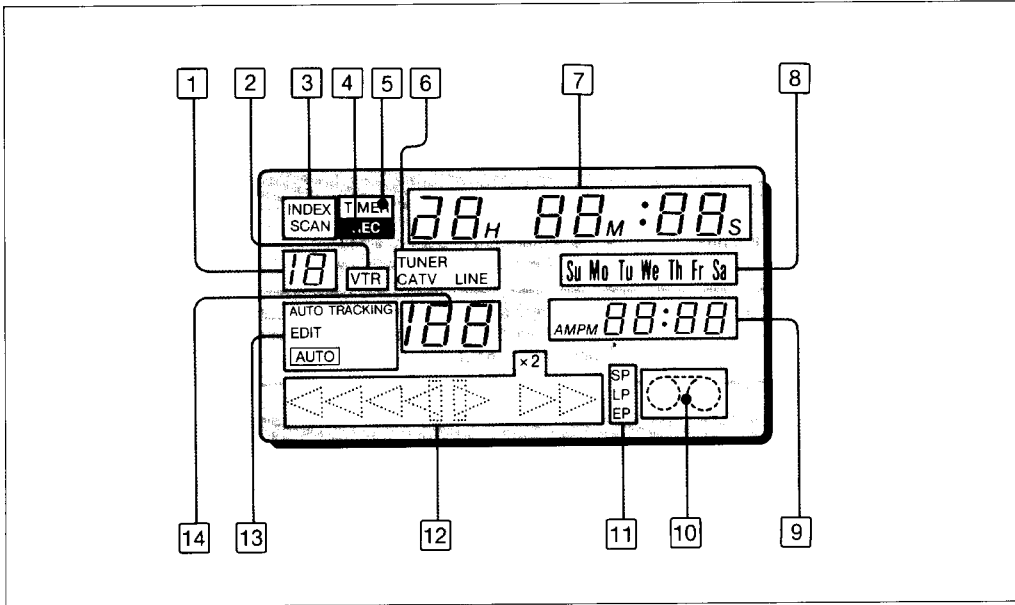
To edit the next scene
Repeat steps 5, 6, and 7.

When editing is completed
Press STOP on both of the units.

When the recording VCR is a stereo unit
Make connections with the VMC-910MS/920MS cable (not supplied).

When connecting the VCRs
Do not connect both LINE IN and LINE OUT jacks on the two VCRs simultaneously. Doing so may cause a humming noise.

Indications in the Display Window



1 Index number indicator

2 VTR indicator

3 INDEX, INDEX SCAN indicator
Appears while the VCR is scanning the index point.

4 REC (recording) indicator
Appears while the VCR is performing normal recording, timer recording, or quick timer recording.

5 TIMER recording indicator
Appears while the VCR is performing timer recording, waiting for the turn-on time of timer recording, or performing quick timer recording.

6 Input mode indicators

7 Linear time counter

8 Day of the week indicator

9 Current time and quick timer recording duration indicator

10 Cassette indicator

11 Tape speed indicator
LP is only for playback.

12 Tape operation indicator

13 Various function indicators

- AUTO TRACKING (Automatic tracking, see page 35)
- EDIT (see page 53)
- **AUTO** (Automatic tape operation, see page 31)

14 Channel number/input mode indicators

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.

Power

The POWER switch does not function.

- The power cord is disconnected.
- The VCR is in the timer standby mode.

The power is turned on but the VCR does not operate.

- The safety device on the VCR has activated. Turn the power off, disconnect the power cord from the wall outlet and leave the unit for more than 1 hour.

Clock and Timer

The clock has stopped and "AM 12:00" is blinking.

- There has been a power interruption. Reset the date, clock time, and timer setting.

TV Reception

TV program is not clearly displayed on the TV screen.

- The channel for the VCR is not correctly tuned on the TV.
- The TV signal is weak. Adjust the direction of the antenna.

Recording and Playback

Noisy picture during recording

- The TV's channel is not set to the one preset for the VCR.
- The TV signal is weak. Adjust the direction of the antenna.

No picture on the TV screen

- Press ANT TV/VTR so that the VTR indication appears in the display window.
- The TV's channel is not set to 3 CH or 4 CH, or the video input has not been selected at the monitor.

Recording cannot be made.

- No cassette has been inserted.
- The tape is at its end.
- INPUT SELECT is not set correctly.

The playback picture is not clear.

- The channel for the VCR is not correctly tuned on the TV.
- A tape recorded on another VCR is being played back. Adjust the tracking with the TRACKING NORMAL/SLOW and STILL ADJUST ▲/▼.
- 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 your nearest Sony facility. (Do not use a commercially available wet-type cleaning cassette. It may damage the video heads.)
- The video heads are worn out.
- Adjust SHARPNESS.

The picture moves vertically during picture search mode. • Adjust the vertical hold control on the TV or color monitor.

Sound drop-out • The tape is defective.
Use a new video cassette tape.

Timer Recording

Timer setting cannot be made. • The current time has not been preset.

The TIMER indicator is not lit even though you've pressed TIMER REC (ON/OFF). • No cassette has been inserted.
• The tape is at its end.
• No setting for timer recording.

The cassette is ejected when you press TIMER REC (ON/OFF). • The safety tab of the cassette has been removed.

Timer recording was not made. • There has been a power interruption of one hour or more.
• TIMER REC (ON/OFF) was not pressed.

Data Screen

The data screen does not appear on the screen. • Press DATA SCREEN.

Others

Cassette cannot be inserted • A cassette has already been inserted.

The Commander cannot be operated. • The COMMAND MODE switch has not been set correctly.
• The batteries are exhausted.

A short beep sounds repeatedly • An illogical operation has been made.

The tracking indicator does not appear on the screen. • Press DATA SCREEN.
• The recording condition of the tape is very poor and tracking cannot be adjusted.

Specifications

System

Format	VHS NTSC standard
Video recording system	Rotary two-head helical scanning FM system
Video signal	EIA standard, NTSC color
Tape speed	SP: 33.35 mm/sec. (1 3/8 inches/second) EP: 11.11 mm/sec. (7/16 inches/second) LP: 16.67 mm/sec. (1 1/16 inches/second) Playback only
Maximum recording/ playback time	8 hours in EP mode (with T-160)
Fast-forward and rewind time	Approx. 4 min. (with T-120)
High speed rewind time	Approx. 2 min. 30 sec. (with T-120)

Tuner Section

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

Inputs and Outputs

LINE IN 1 and 2	VIDEO IN (phono jack) (1 each) Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative AUDIO IN (phono jack) (1 each) Input level: -7.5 dBs (0 dBs = 0.775 Vrms) Input impedance: more than 47 kilohms
LINE OUT	VIDEO OUT (phono jack) (1) Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative AUDIO OUT (phono jack) (1) Standard output: -7.5 dBs at load impedance 47 kilohms Output impedance: less than 10 kilohms
CONTROL S IN	Minijack (1)

Timer Section

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

General

Power requirements	120V AC, 60 Hz
Power consumption	28 W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	430 × 87 × 358 mm (w/h/d) (17 × 3 3/8 × 14 inches)
Weight	5.6 kg (12 lb 6 oz)

Wireless Commander RMT-V373A

Remote control system	Infrared control
Command mode	VTR 1/2/3 switchable
Power requirements	3V DC, 2 size AA batteries (IEC designation R6)
Dimensions	75 × 200 × 36.6 mm (w/h/d) (3 × 7 7/8 × 1 1/2 × inches)
Weight	177 g (6.2 oz) (excluding batteries)

Accessories Supplied

Wireless Commander RMT-V373A with	
two size AA batteries	(1)
75-ohm coaxial cable with F-type connectors	(1)
Antenna Connector	(1)
AC power cord	(1)

Design and specifications are subject to change without notice.