

Trinitron® Color Video TV

Operating Instructions

Before operating your VIDEO TV, please read this manual thoroughly and retain it for future reference.

KV-13VM20/21
KV-20VM20

Owner's Record

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

Model No. _____ Serial No. _____

Contents

Preface

This section tells you about special features, safety information, and preparatory information for using this manual.

Chapter 1: Setting UP

This section shows you the steps necessary for installing and presetting your VIDEO TV, and how to connect optional video and audio equipment.

Chapter 2: Using Basic VIDEO TV Features

This section gives you basic information about operating and adjusting your VIDEO TV.

Chapter 3: Using Advanced TV Features

This section shows you the steps for other useful TV features with using the On-Screen Menus.

Chapter 4: Using Basic VCR Features

This section gives you basic information about operating and adjusting your VCR.

Chapter 5: Using advanced VCR Features

This section shows you the steps for other useful VCR features with using the On-Screen Menus.

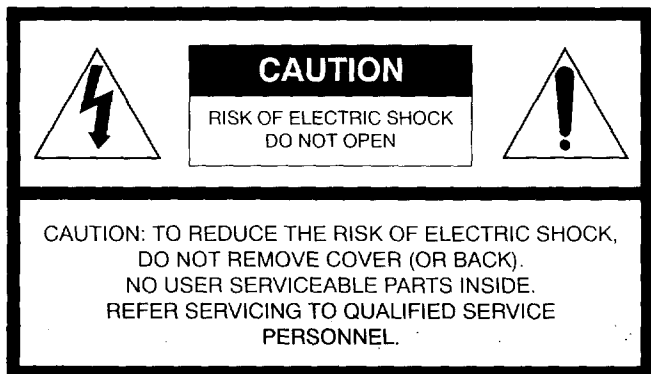
Appendix

This section gives you specifications and troubleshooting information.

- For a detailed table of contents, see p. 3.

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 product.

CAUTION:

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

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular specifies that the cable grounding system of the building, as close to the point of cable entry as practical.

Use of this VIDEO TV receiver for other private viewing of programs broadcast on VHF or UHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

Do not use this VIDEO TV if moisture has condensed, such as on its CRT, otherwise it may cause malfunction. In this case, leave the VIDEO TV unused until it gets dry.

Precautions

Safety

- Operate the VIDEO TV only on 120V AC.
- One blade of the plug is wider than the other for safety purposes 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.
- Should any liquid or solid object fall into the cabinet, unplug the VIDEO TV and have it checked by qualified personnel before operating it any further.
- Unplug the VIDEO TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the VIDEO TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

Cleaning

Clean the VIDEO TV with a soft dry cloth. Never use strong solvents such as thinner or benzene, which might damage the finish of the cabinet.

Repacking

Keep the original carton and packing materials to use for safe transport of your VIDEO TV in the future.

If you have any questions or problems concerning your VIDEO TV, please contact your nearest Sony dealer.

CAUTION:

When using TV games, computers, and similar products with your VIDEO TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

This VIDEO TV receiver provides display of television closed captioning in accordance with 15.119 of the FCC rules.

Information

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

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Introducing the Sony Trinitron® Color VIDEO TV

About the Manual

We highly recommend that you read this manual before using your VIDEO TV combined Television and VCR. Keep the manual handy for future reference.

Features

With the following features, you can:

- Watch up to 125 cable channels for a total of 181 possible off-air and cable channels with the **multi-band VHF/UHF/CATV tuner**.
- Call up on-screen menus to set timer-activated functions (Current time set, On/Off Timer), Cable on/off, AUTO Program, CH Erase/Add, Tape remain by using the **SET UP** feature.
- View the closed caption and the text by using **Caption Vision**.
- Enjoy automatic Playback by automatically playing, a cassette tape that has had its erase-protection tab removed.
- Record programs without using the program recording timer while you are away, by using the **QUICK TIMER**.

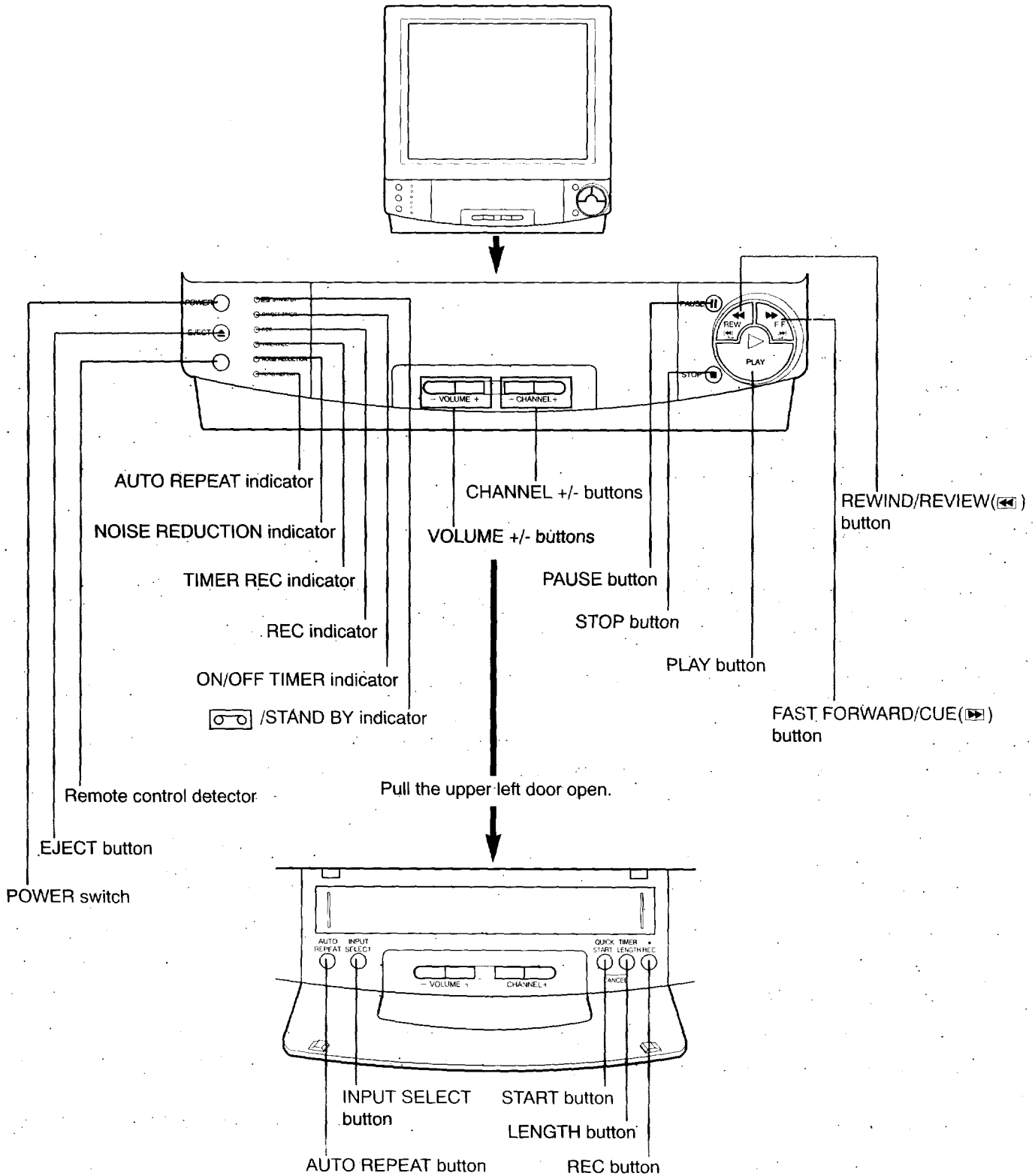
With the supplied Remote Commander, you can:

- Switch quickly between two channels by using **JUMP**.
- Set the TV to automatically shut off after 30, 60, and 90 minutes by using the **SLEEP** timer.
- Program the VCR to make up to six unattended recordings within a 1-month period, including daily and weekly recordings, by using **TIMER ON SCREEN**.
- Select the SP(standard play), LP(long play) or EP (extended play) speed by using **TAPE SPEED**.
- Stop the tape and view a single frame by using **PAUSE**.
- Make sections of tape so you can quickly and easily return to the section you want to watch, by using **INDEX** and **MARK**.

Locating the Controls



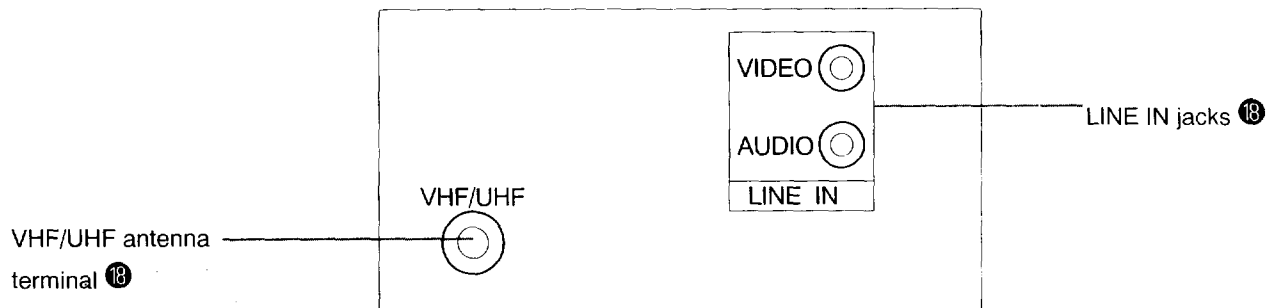
Front Panel



Locating the controls

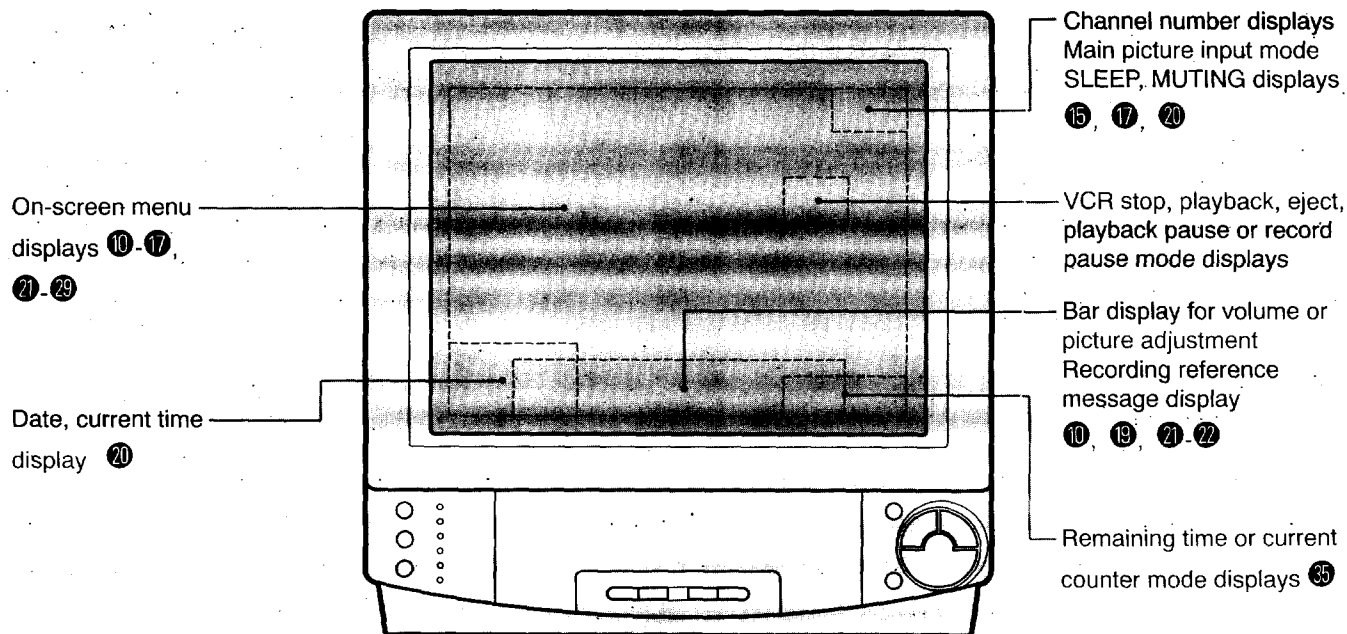
Rear Panel

For details, see the pages indicated by the numbered black circles ● .



Screen Displays

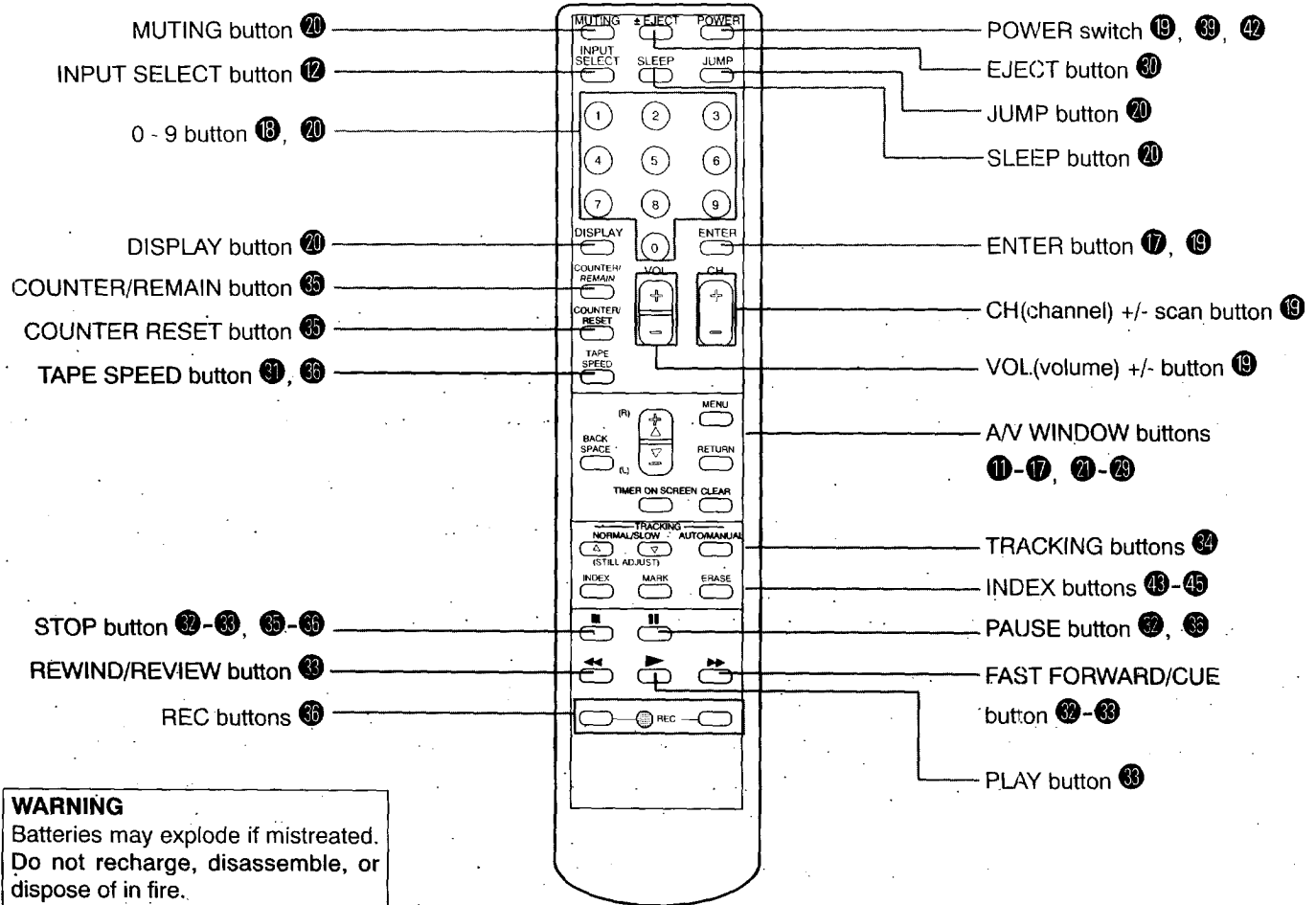
For details, see the pages indicated by the numbered black circles ● .



Remote Commander

For details, see the pages indicated by the numbered black circles ● .

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Installing battery

1 Remove the battery compartment cover (Rear of commander).

2 Insert one AA Battery (R6) being careful of the correct polarity.

Battery life
Under normal operation, the battery will last up to a half of year. If the Remote Commander does not operate properly, the battery might be exhausted. Replace it with new one.

To avoid damage from possible battery leakage
Remove the battery if you do not plan to use the Remote Commander for a fairly long time.

Chapter 1: Setting Up

Connecting TV Antenna/Cable

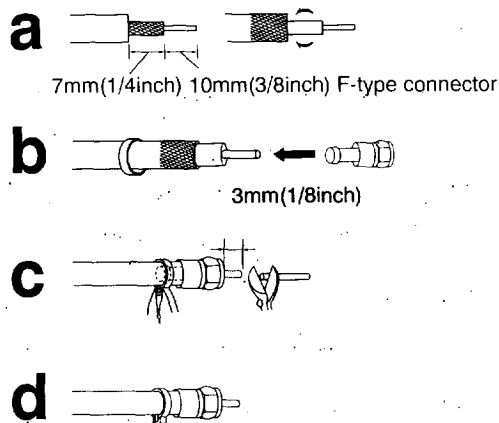
Although you can use either an indoor or outdoor antenna with the VIDEO TV, an outdoor antenna will provide you with better picture quality. You can receive cable TV by connecting a cable supplied by your local cable company.

Connecting VHF, UHF or VHF/UHF Combination Antenna, or CATV Cable

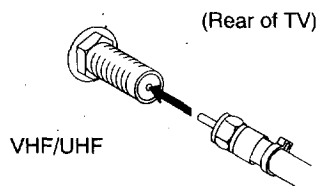
75-ohm coaxial cable (round)

- 1 Check your antenna cable type and prepare the end of the cable using the F-type connector.

Attach an F-type connector (not supplied).



- 2 Plug the connector into the VHF/UHF terminal at the rear of the VIDEO TV.

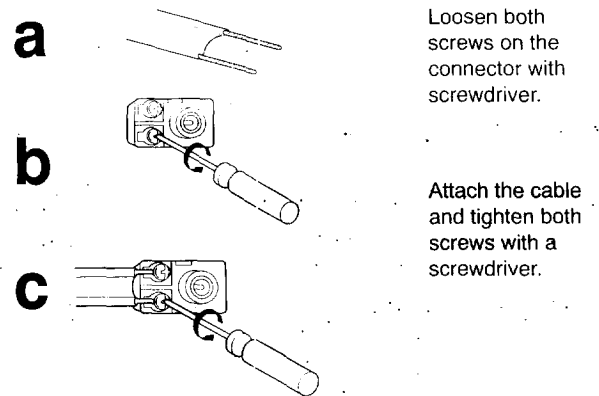


* Most combination antennas are equipped with a signal splitter. Remove the splitter and attach the appropriate connector.

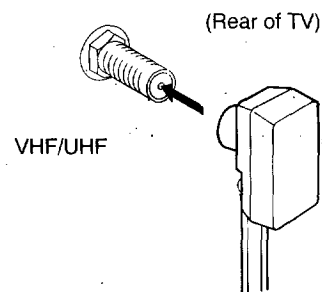
300-ohm twin-lead cable (flat)

- 1 Check your antenna cable type and prepare the end of the cable using the 300-ohm twin-lead cable.

Attach the supplied antenna connector.



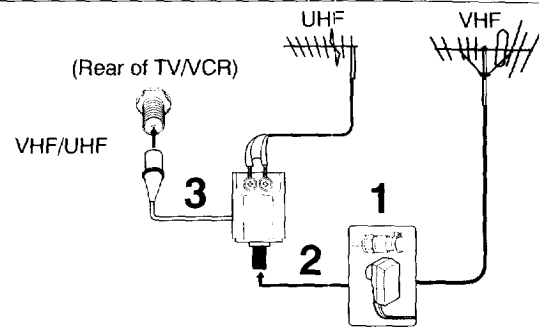
- 2 Plug the connector into the VHF/UHF terminal at the rear of the VIDEO TV.



Connecting Both VHF and UHF antennas

Use the EAC-66 U/V mixer (not supplied).

- 1 Prepare the VHF antenna end using the appropriate connector (p. 8).
- 2 Connect the cables to the mixer.
- 3 Attach the mixer to the VHF/UHF terminal.



When the U/V mixer is used

Snow and noise may appear in the pictures when viewing cable TV channels over 37 (W + 1).

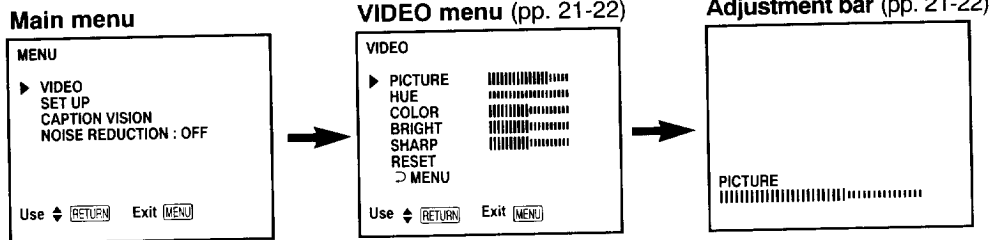
Note

For better picture quality, we would recommend you to connect an outdoor antenna.

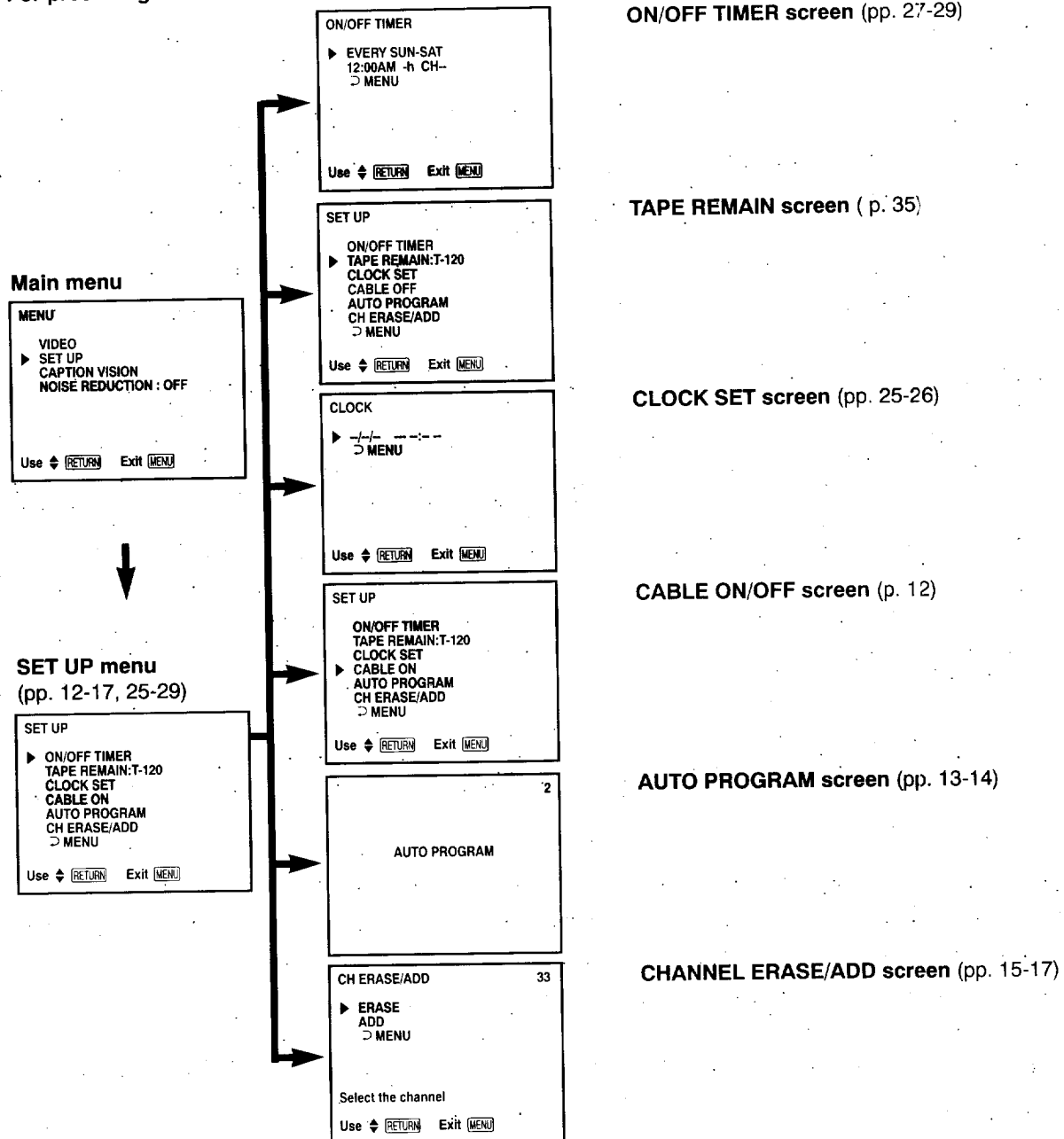
Using the On-Screen Menus

The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

For picture quality adjustment

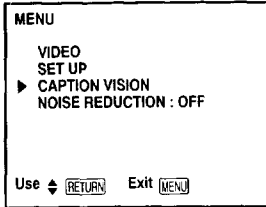


For presetting and other functions

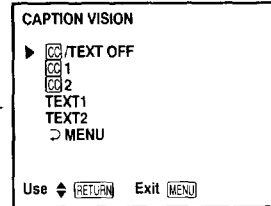


For closed caption setting

Main menu



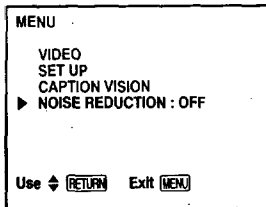
CAPTION VISION menu (p. 24)



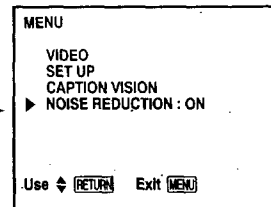
CAPTION VISION screen (p. 24)

For noise reduction function

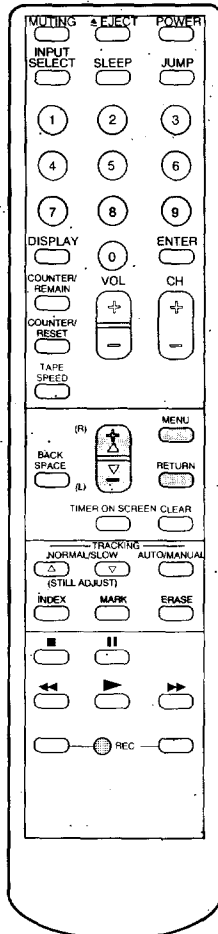
Main menu



NOISE REDUCTION menu (p. 23)



NOISE REDUCTION screen (p. 23)



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Navigating Through the Menus

To display the main menu
Press MENU.

To return to the previous menu
Press Δ + or ∇ - to select MENU.
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

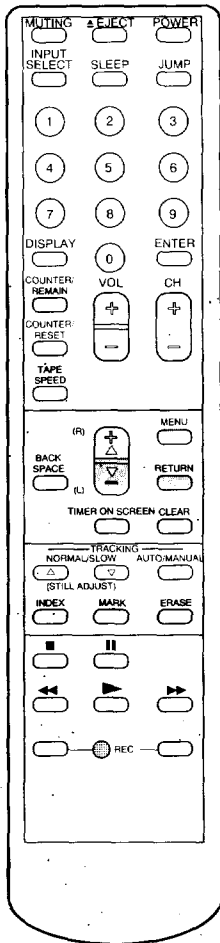
Note

The menus disappear automatically if you do not press a button within 60 seconds.

Turning the Cable Mode On or Off

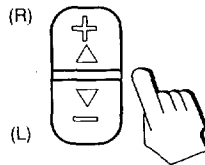
All of the controls are on the Remote Commander.

If you have cable connected to your VIDEO TV (p. 10) follow the steps below to turn the cable connection on or off. CABLE is preset to OFF when you use your VIDEO TV for the first time. Turn CABLE to OFF to preset or watch VHF or UHF channels.

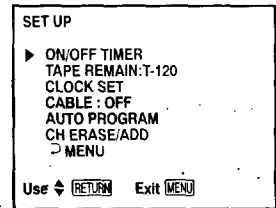
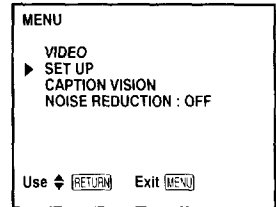


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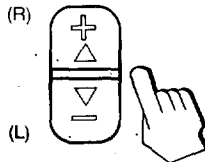
1 Press $\Delta+$ or $\nabla-$ to select SET UP, in main menu.



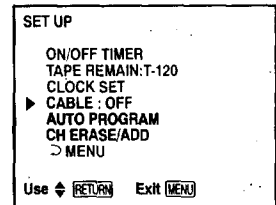
Press RETURN.
The SET UP menu appears.



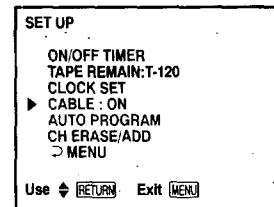
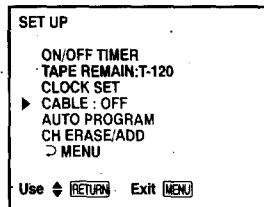
2 Press $\Delta+$ or $\nabla-$ to select CABLE.



Press RETURN.



3 Press $\Delta+$ or $\nabla-$ to select ON or OFF alternately.



Press RETURN.
The setting is completed.

To return to the normal screen
Press MENU.

Note

If the VIDEO TV is in LINE mode, you cannot select CABLE. Repeatedly press INPUT SELECT to change to TV mode.

Presetting TV Channels



Once you have preset the channels on your VIDEO TV, you will be able to use the channel +/- buttons on the VIDEO TV or the Remote commander to scan the channel you selected.

Presetting TV Channels Automatically

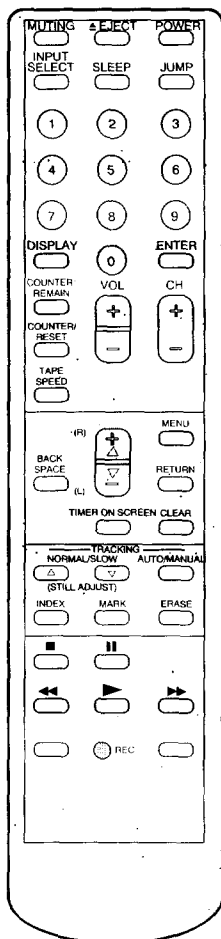
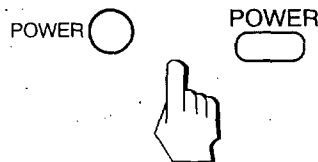


Note

Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

Turning the Cable Mode On or Off
Presetting TV Channels

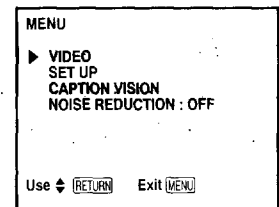
- 1 Press POWER on the VIDEO TV or the Remote Commander to turn the VIDEO TV on.



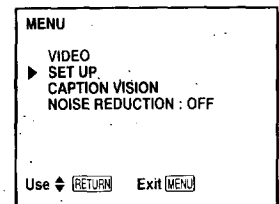
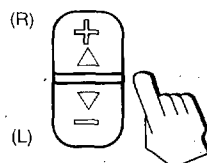
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- 2 Using the Menu, select cable off to receive VHF/UHF channel. Select cable on to receive cable stations. (Follow the steps in "Turning the Cable Mode On or Off", p. 12.)

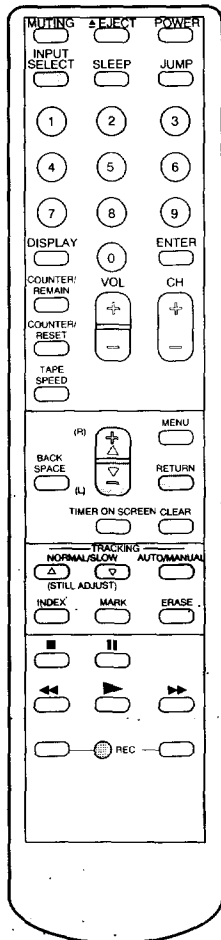
- 3 Press MENU. The main menu appears.



- 4 Press Δ + or ∇ - to select SET UP.



Presetting TV Channels



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Receivable channels for this TV

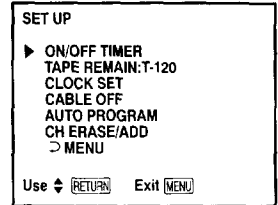
VHF: 2-13
 UHF: 14-69
 Cable: 1-125

To select TV channels without presetting
 Press 0-9 and ENTER.

To return to the normal screen
 Press MENU.

To erase unnecessary channels, or to add channels that could not be preset automatically because their signal was too weak, follow the steps in "Erasing Unnecessary Channels CHANNEL ERASE" and "Presetting Only Desired Channels-CHANNEL ADD" (pp. 15-17).

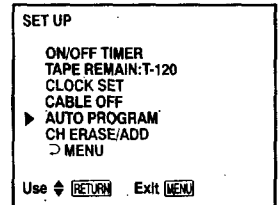
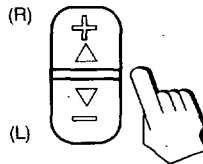
Press RETURN.
 The SET UP menu appears.



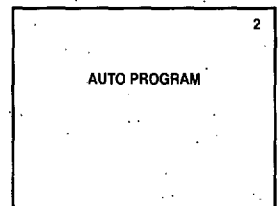
Note

If the VIDEO TV is in LINE mode, you cannot select AUTO PROGRAM. Press INPUT SELECT to change to TV mode.

5 Press $\Delta+$ or $\nabla-$ to select AUTO PROGRAM.



Press RETURN.



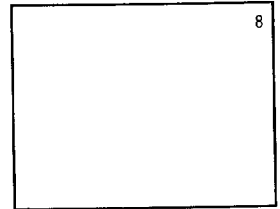
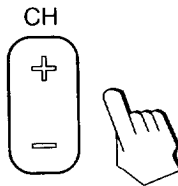
"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the TV's memory. When no more channels can be found, the programming stops and the lowest numbered channel is displayed.



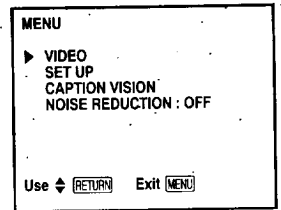
Erasing Unnecessary Channels - CHANNEL ERASE

Use this feature to erase unnecessary TV channels, so that when you press CH+/-, the channel(s) are skipped.

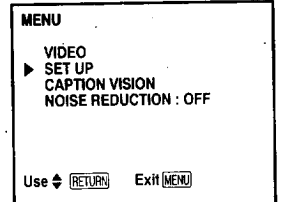
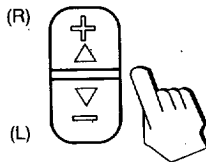
- 1** Press the CH +/- button to select the channel you want to erase.
For example, to erase channel 8, press CH + or - until 8 appears.



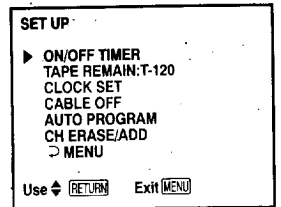
- 2** Press MENU.
The main menu appears.



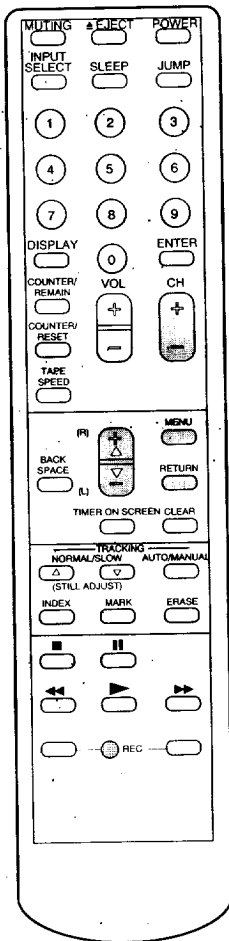
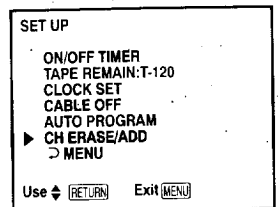
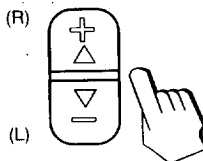
- 3** Press Δ + or ∇ - to select SET UP.



- Press RETURN.
The SET UP menu appears.



- 4** Press Δ + or ∇ - to select CH ERASE/ADD.



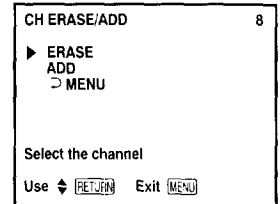
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Presetting TV Channels

Press RETURN.

The CH ERASE/ADD screen appears, and the cursor points to ERASE.

RETURN



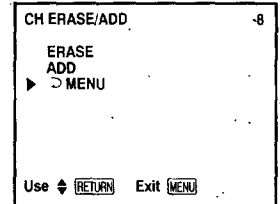
Note

If the VIDEO TV is in LINE mode, you cannot select CHANNEL ERASE/ADD. Press INPUT SELECT to change to TV mode.

5 Press RETURN.

A "-" sign appears in front of the channel number display showing that the channel is erased from the channel scan memory.

RETURN



6 Press MENU.

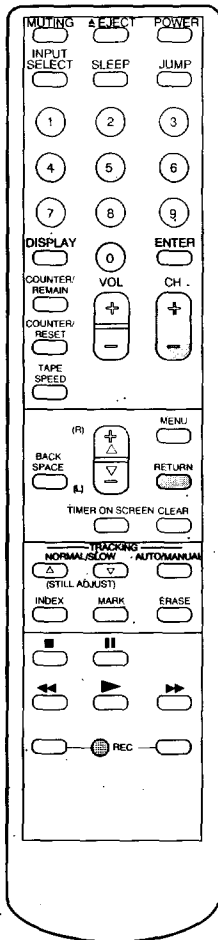
MENU



The next time you press the CH +/- buttons, channel 8 will be skipped.

To erase other channels

Repeat steps 1-6.



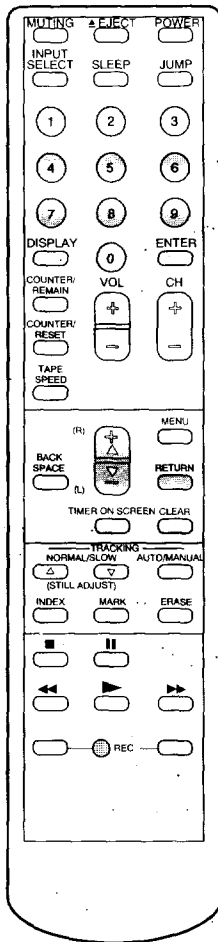
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To return to the normal screen
Press MENU.

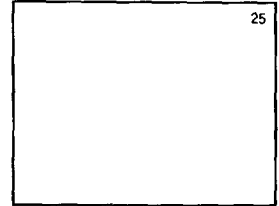
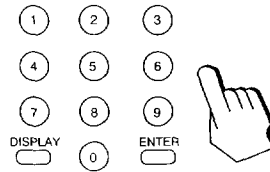
Presetting only Desired channels - CHANNEL ADD

Use this feature to add channels one at a time to the channel scan memory.

- 1 Press 0-9 and ENTER to select the channel you want to add. For example, to add channel 25, Press 2, 5 and ENTER.



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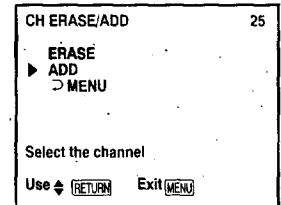
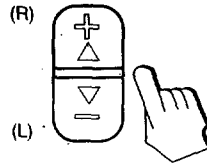


- 2 - 4 (Follow steps 2-4 in "Erasing Unnecessary Channels-CHANNEL ERASE," pp. 15-16)

Note

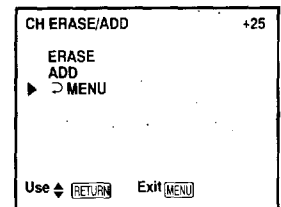
If the TV is in LINE mode, you cannot select CH ERASE/ADD. Press INPUT SELECT to change to TV mode.

- 5 Press $\Delta+$ or $\nabla-$ to select ADD.



Press RETURN.

A "+" sign appears in front of the channel number display showing that the channel is added to the channel scan memory.



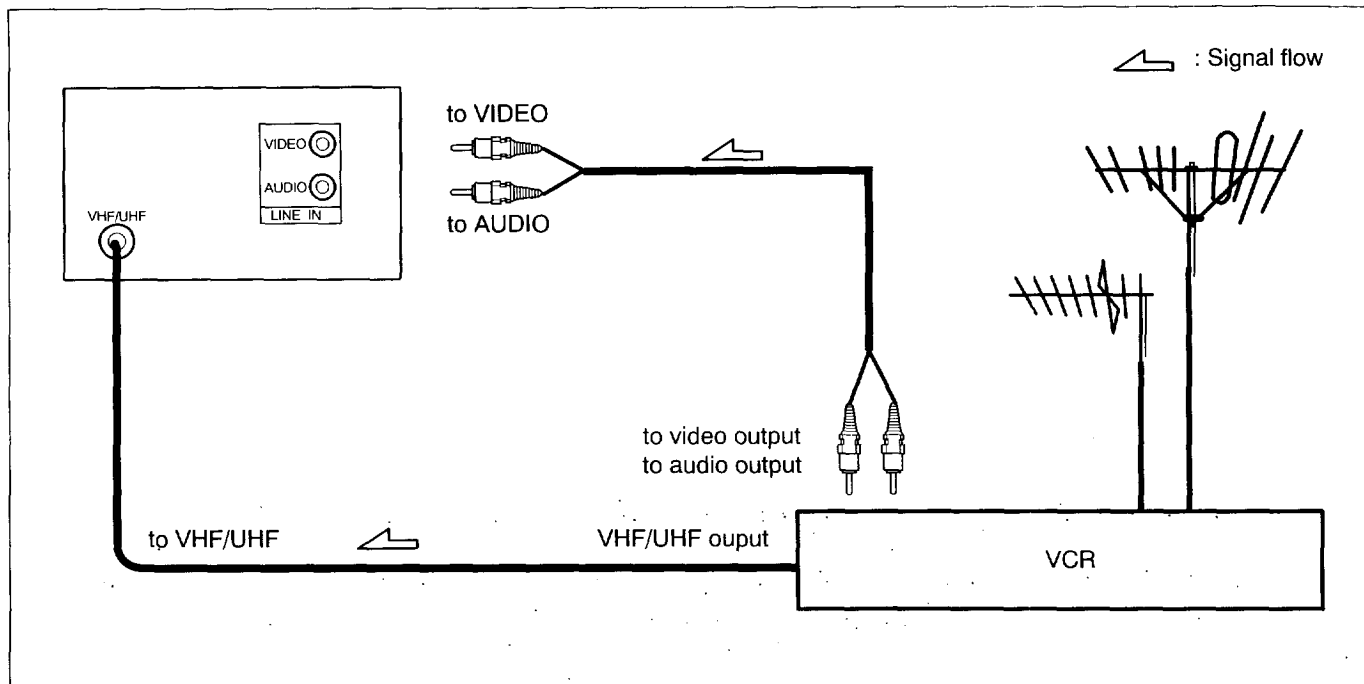
- 6 Press MENU.

To add other channels

Repeat steps 1-6.

To return to the normal screen
Press MENU.

Connecting Other Equipment



1 Remove the antenna cable from the VIDEO TV Antenna terminal. Connect the antenna cable to the antenna terminal of the other Video/Audio source (ex. Video recorder). Then connect a coaxial cable from the VHF output terminal back to the antenna terminal of the VIDEO TV.

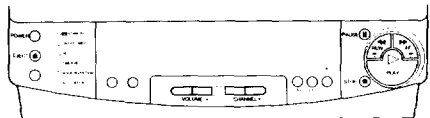
2 To use your VIDEO TV to monitor an audio/video source (such as another VCR, a camcorder or a laser disc player), connect the audio/video source output jacks to the AUDIO/VIDEO IN jacks on the VIDEO TV. Then select LINE IN using the input select on the VIDEO TV or Remote commander.

Notes

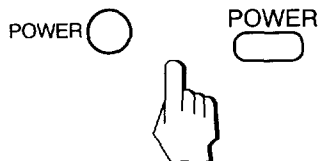
- Repeatedly press INPUT SELECT on the VIDEO TV or on the Remote Commander so that "LINE" appears on the screen.
- To return to TV mode, repeatedly press INPUT SELECT on the VIDEO TV or on the Remote Commander so that a channel number appears on the screen.
- For operating instructions, refer to the instruction manual furnished with the VCR.
- If the picture or sound is affected, move the VCR away from the VIDEO TV.

Chapter 2: Using Basic VIDEO TV Features

Watching TV Programs

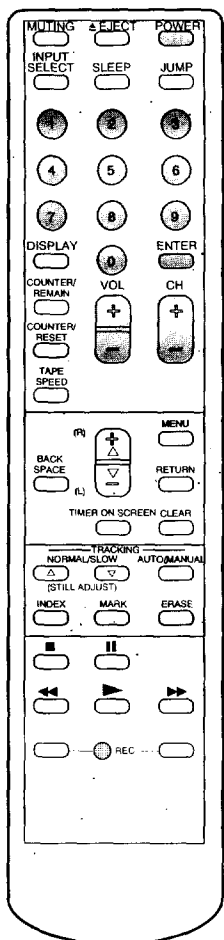


1 Press POWER on the VIDEO TV or the Remote Commander to turn the TV on.



2 Turn the cable mode on or off to select the type of channel you want to watch, VHF/UHF or cable TV.
(Follow the steps in "Turning the Cable Mode On or Off," p.12.)

If "LINE" is displayed on the screen, press INPUT SELECT on the Remote Commander so that the channel number appears.

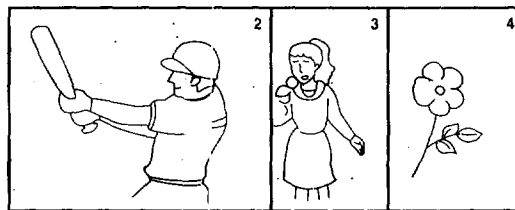
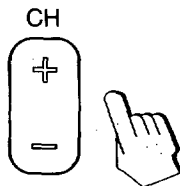


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3 Select a channel in one of the following two ways:

To scan the preset channels* in numerical sequence

Press CH +/-.

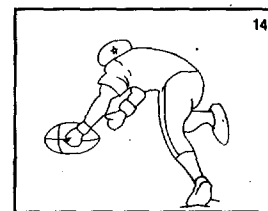


* For more information on presetting channels, see pp. 13-17.

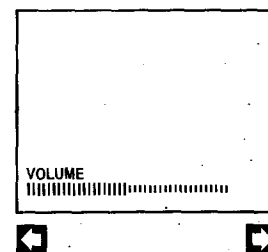
To select a channel directly

Press 0-9 and ENTER.

For example, to select channel 14, press 1, 4 and ENTER.



4 Press VOL +/- to adjust the volume.

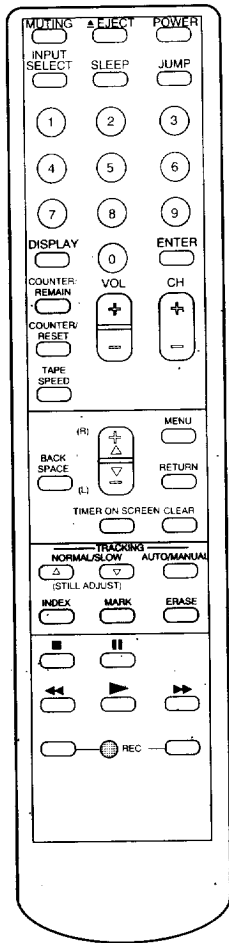


To turn off the TV

Press POWER on the TV or the Remote Commander again.

Press VOL + to increase the volume.
Press VOL - to decrease the volume.

Using Convenient Features

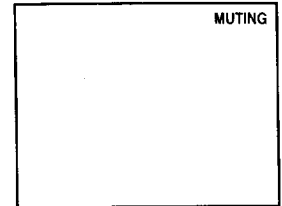


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Muting the Sound - MUTING

Press MUTING
The display "MUTING" will appear on the screen.

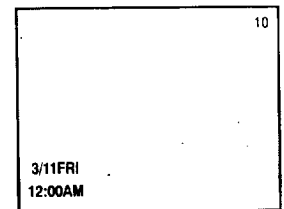
To restore the sound
Press MUTING again.



Keeping the Displays On-Screen - DISPLAY

To display the channel
Press DISPLAY.
All the existing displays appear: channel number date, time, VCR operating mode and tape counter.

To cancel the display
Press DISPLAY again.
The display will disappear



Setting the Sleep Timer - SLEEP

The sleep timer turns off the TV automatically after the amount of time you select.

Press SLEEP.
Each time you press SLEEP, the time increments 30, 60, 90 and OFF mode appear in sequence.



	SLEEP OFF
	SLEEP 30
	SLEEP 60
	SLEEP 90

The SLEEP display appears about one minute before the TV turns off.

To cancel the setting
Press SLEEP until OFF mode appears.
The "SLEEP OFF" display appears for about three seconds.
OR
Turn the TV off.
The sleep timer setting is cancelled.

Switching Quickly Between Two Channels - JUMP

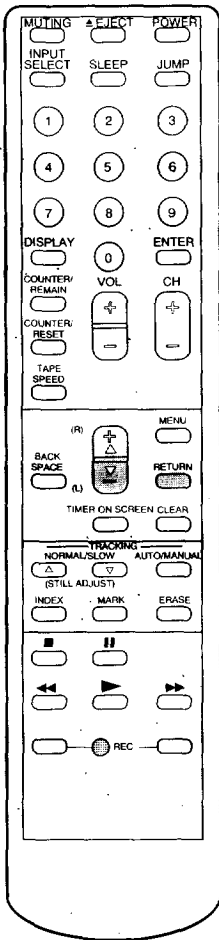
Press JUMP once to recall the channel you were watching previously. Press JUMP again to switch back. Use this feature to keep track of two programs alternately.



Adjusting Picture Quality

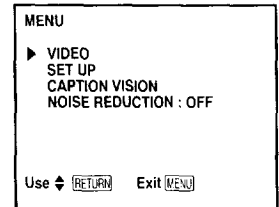


You can adjust the picture for each input mode (TV mode, LINE) by pressing INPUT SELECT to select the input mode before making the adjustments. These adjustments are retained in memory even when you turn off the TV until you change the adjustments again.

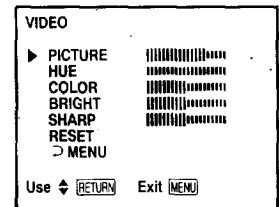


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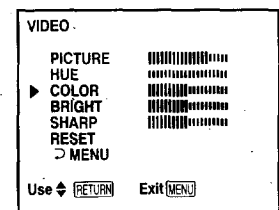
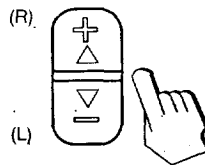
- 1 Press MENU.
The main menu appears, and the cursor points to VIDEO.



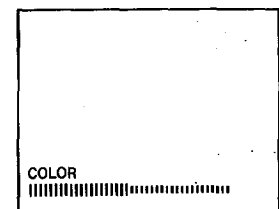
- 2 Press RETURN.
The VIDEO menu appears.



- 3 Press Δ + or ∇ - to select the item you want to adjust.
For example, to adjust the picture color, select COLOR.

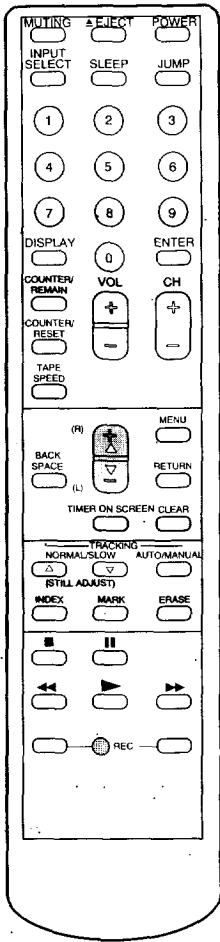


Press RETURN.
The adjustment bar appears.

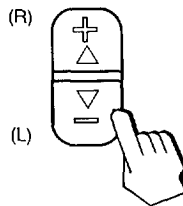
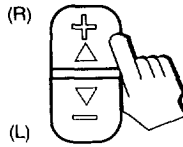


Adjusting Picture Quality

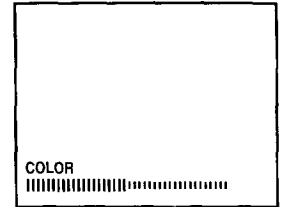
4 Press $\Delta+$ or $\nabla-$ to make the adjustment.



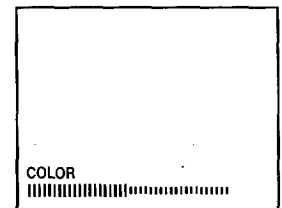
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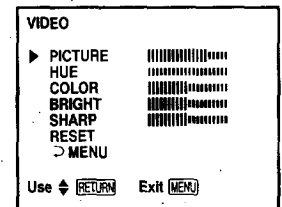
Press RETURN.
The new setting appears in the VIDEO menu.



Increase color intensity



Decrease color intensity



To adjust other items
Repeat steps 3-4.

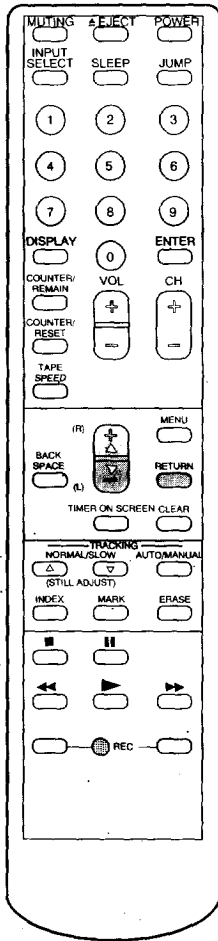
	Press $\nabla -$ to :	Press $\Delta +$ to :
PICTURE	decrease picture contrast with soft color	increase picture contrast with vivid color
HUE	make skin tones become purplish	make skin tones become greenish
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
SHARP	soften the picture	sharpen the picture

To return to the normal screen
Press MENU.

To restore the factory (mid-level) setting
Go to the VIDEO menu and select RESET by pressing $\Delta+$ or $\nabla-$. Then press RETURN. All the settings except for PICTURE will be restored to mid-level settings.

Using Noise Reduction Function

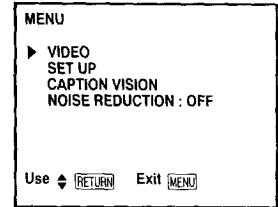
You can reduce the picture noise on the screen in VCR playback mode.



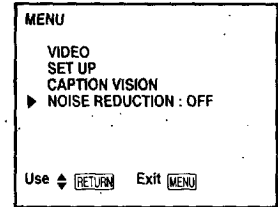
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- 1 Press MENU.
The main menu appears, and the cursor points to VIDEO.

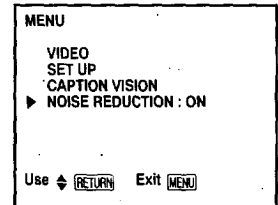


- 2 Press Δ + or ∇ - to select NOISE REDUCTION.



- 3 Press RETURN, then Δ + or ∇ - to select ON.

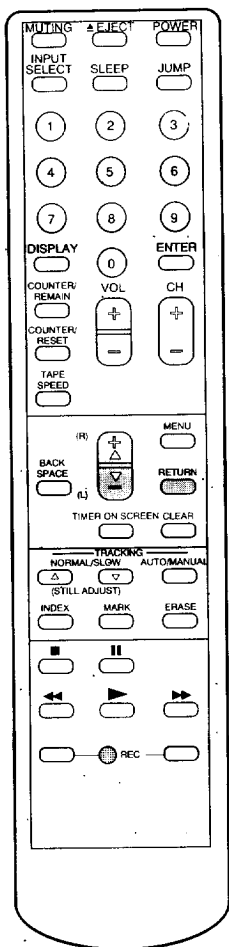
NOISE REDUCTION indicator lights up.



- 4 Press RETURN.
The picture noise is reduced.

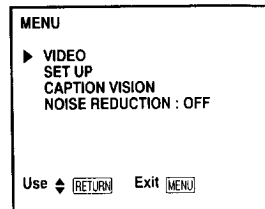
Chapter 3: Using Advanced TV Features

Using Closed Caption

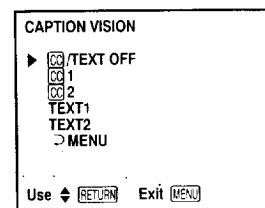
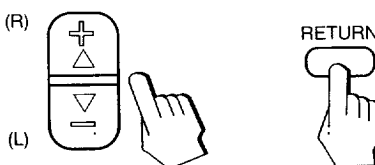


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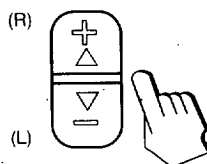
- 1 Press MENU.
The main menu appears.



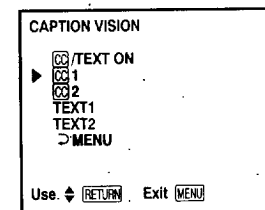
- 2 Press $\Delta+$ or $\nabla-$ to select CAPTION VISION.
Then press RETURN.
The CAPTION VISION screen appears.



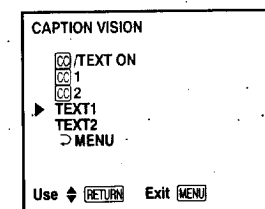
- 3 Press $\Delta+$ or $\nabla-$ to select closed caption mode.



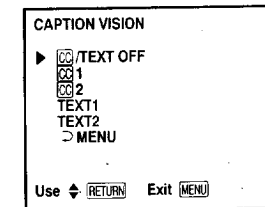
Select CC1 or CC2 to view Captions.
A Caption is a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.)



Select TEXT1 or TEXT2 to view Text.
Text is information that is presented using the half to full television screen.
It is usually not related to the program.



Select CC/TEXT OFF if you do not want to use the CAPTION VISION mode.



Press RETURN.
The Setting is completed.



Note

Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

Using the Timer-Activated Functions

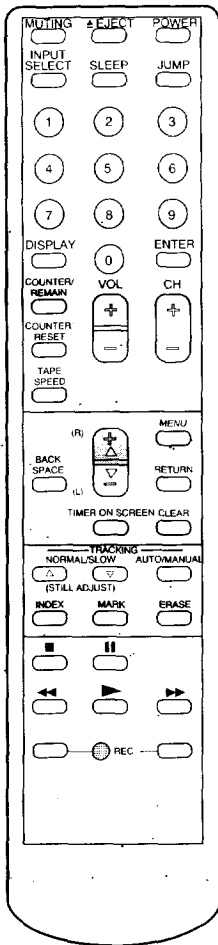


Setting the Clock - CURRENT TIME SET

Follow these instructions to set the current time. The correct time must be set in order to use the other timer-activated functions (ON/OFF TIMER).

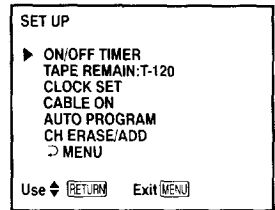
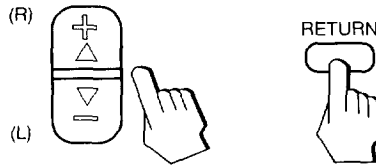
EXAMPLE:

Set the time to 11:30AM, Friday on the 25th of February, 1994.

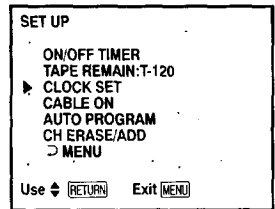
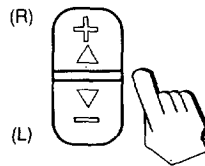


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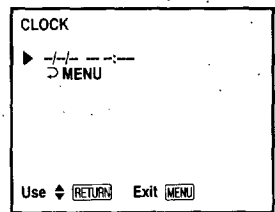
- 1** In main menu, press $\Delta+$ or $\nabla-$ to select SET UP.
Then press RETURN.
The SET UP screen appears.



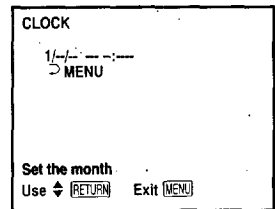
- 2** Press $\Delta+$ or $\nabla-$ to select CLOCK SET.



Press RETURN.
The CLOCK SET screen appears.

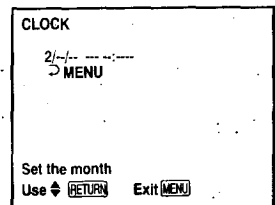


- 3** Press RETURN again.
"Set the month" appears on the screen.



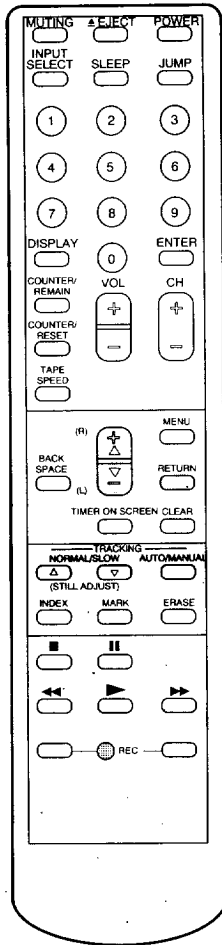
To change or correct the setting before completing it
Press BACK SPACE to return to the item to be erased.

- 4** Press $\Delta+$ or $\nabla-$ to set the month.
Each time you press $\Delta+$ or $\nabla-$, the month changes in sequence.



Using Closed Caption
Using the Timer-Activated Functions

Using the Timer-Activated Functions



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To display the time
Press DISPLAY.

To return to the normal screen
Press MENU.

Notes

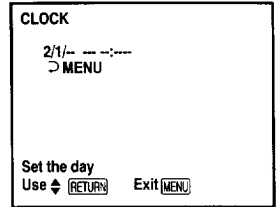
- The internal clock of this VIDEO TV operates on a 12-hour cycle.

12:00 AM stands for midnight.
12:00 PM stands for noon.

- All the settings including CLOCK will be erased if you unplug the VIDEO TV or a power failure occurs. Reset the current time by following steps 1-8.
- If the ON/OFF TIMER or QUICK TIMER has been set, you can not change the clock. To change the clock, cancel the ON/OFF TIMER (p. 29) or QUICK TIMER (p. 42) first.

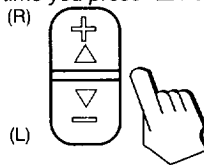
Press RETURN.

"Set the day" appears on the screen.



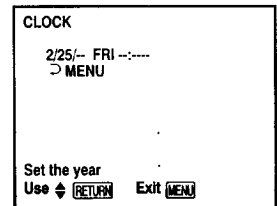
5 Press $\Delta+$ or $\nabla-$ to set the day.

Each time you press $\Delta+$ or $\nabla-$, the day changes consecutively.



Press RETURN.

"Set the year" appears on the screen.

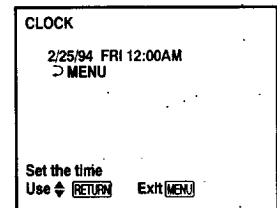


6 Press $\Delta+$ or $\nabla-$ to set the year.

Each time you press $\Delta+$ or $\nabla-$, the year changes in sequence and the day of the week automatically changes.

Press RETURN.

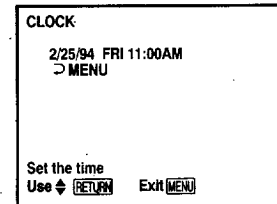
"Set the time" appears on the screen.



7 Press $\Delta+$ or $\nabla-$ to set the hour.

Each time you press $\Delta+$ or $\nabla-$, the hour changes in sequence starting with "12:00AM."

Press RETURN.

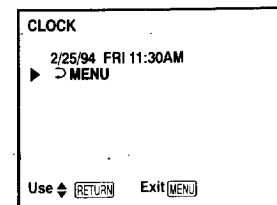


8 Press $\Delta+$ or $\nabla-$ to set the minute.

Each time you press $\Delta+$ or $\nabla-$, the minute changes in sequence.

Press RETURN.

The setting is completed and the clock starts.

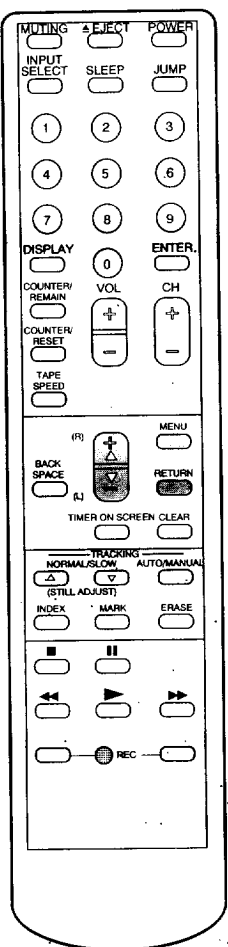




Setting the ON/OFF TIMER

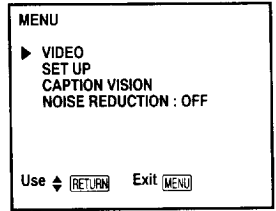
With this function you can set your favorite program to appear on the screen at the time that you set.

EXAMPLE: Set the timer to turn on the VIDEO TV every Monday through Friday at 3:15 PM for 2 hours, on channel 21.

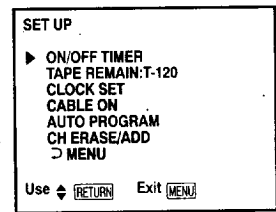
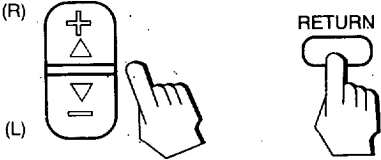


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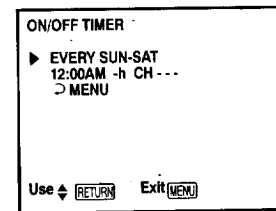
- 1** Press MENU.
The main menu appears.



- 2** Press Δ + or ∇ - to select SET UP.
Then press RETURN.
The SET UP menu appears and the cursor points to ON/OFF TIMER.



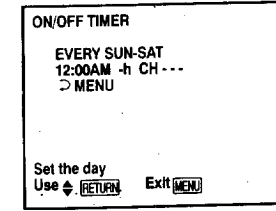
- 3** Press RETURN.
The ON/OFF TIMER screen appears.



Note

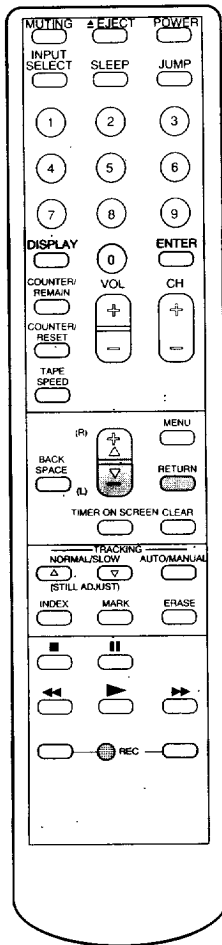
If the ON/OFF TIMER display does not function, the current time has not been set and you cannot select ON/OFF TIMER. To set the clock, see "Setting the Clock-CURRENT TIME SET," pp 25-26.

- 4** Press RETURN again.
"Set the day" appears on the screen.



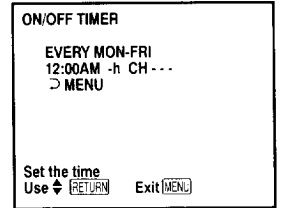
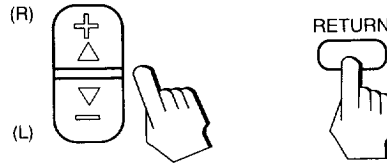
Using the Timer-Activated Functions

Using the Timer-Activated Functions

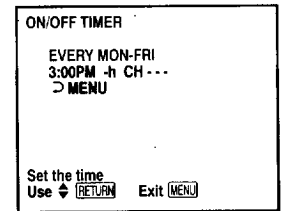
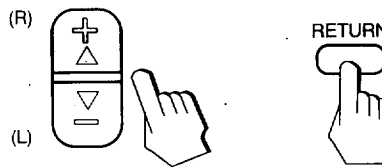


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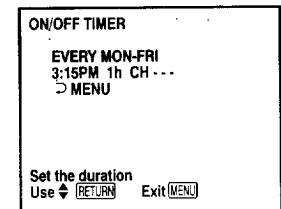
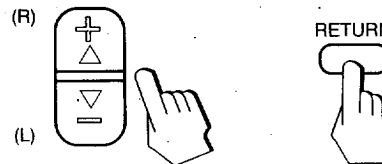
- 5** Press $\Delta+$ or $\nabla-$ to set the day.
 Each time you press $\Delta+$ or $\nabla-$, the days of the week change as shown in Fig. 1.
 Then press RETURN.
 "Set the time" appears on the screen.



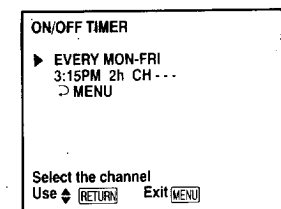
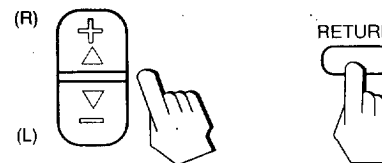
- 6** Press $\Delta+$ or $\nabla-$ to set the hour that you want the TIMER to start.
 Each time you press $\Delta+$ or $\nabla-$, the hour changes in sequence.
 Then press RETURN.



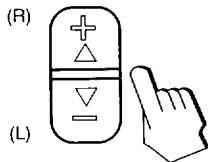
- 7** Press $\Delta+$ or $\nabla-$ to set the minutes.
 Each time you press $\Delta+$ or $\nabla-$, the minutes change in sequence.
 Then press RETURN.
 "Set the duration" appears on the screen.



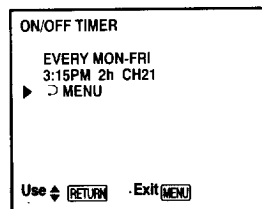
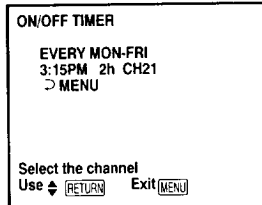
- 8** Press $\Delta+$ or $\nabla-$ to set the duration of time.
 Each time you press $\Delta+$ or $\nabla-$, the duration changes from "1" to "9" in sequence.
 Then press RETURN.
 "Select the channel" appears on the screen.



- 9** Press $\Delta+$ or $\nabla-$ to set the channel that you want the TV to tune in.
Each time you press $\Delta+$ or $\nabla-$, the channel number changes in sequence.



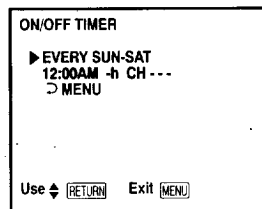
Press RETURN.
The setting is completed, and the ON/OFF TIMER indicator on the front of the VIDEO TV lights up.



Canceling the ON/OFF TIMER

- 1** Select the ON/OFF TIMER screen. (Refer to page 27.)
Press RETURN.
EVERY SUN-SAT will be displayed in red.

- 2** Press BACK SPACE to erase the ON/OFF TIMER.



To change or correct setting the ON/OFF TIMER

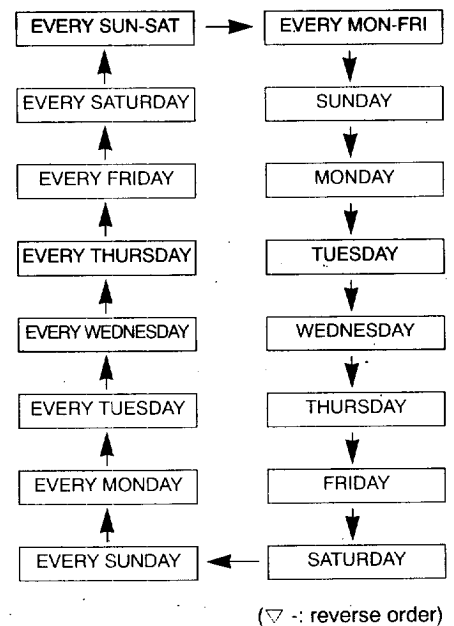
- Before completing it
Press BACK SPACE to return to the item to be changed or corrected.
When it is displayed in red, set it again by using the $\Delta+$ or $\nabla-$.
- After completing it
Select the ON/OFF TIMER screen.
Then, press RETURN to return to the item to be changed or corrected.
When it is displayed in red, set it again by using the $\Delta+$ or $\nabla-$.

Notes

- One minute before the timer goes off, the "TV will turn off" display will appear on the screen.
- If you have not set the clock correctly, the ON/OFF TIMER will not operate at the proper time. To set the clock, see "Setting the Clock-CURRENT TIME SET," pp 25-26.
- All the settings including ON/OFF TIMER will be erased if you unplug the VIDEO TV or a power failure occurs. Reset the TIMER by following steps 1-9.

Fig. 1
Selecting the day(s) of the week

When you press $\Delta+$, the days of the week appear in the following order.



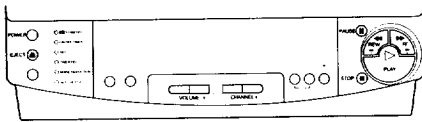
Notes

- To return to the normal screen
Press MENU.

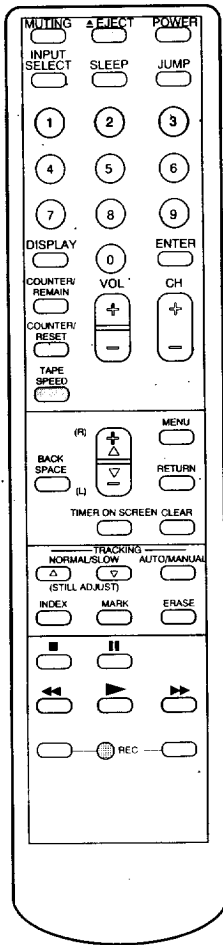
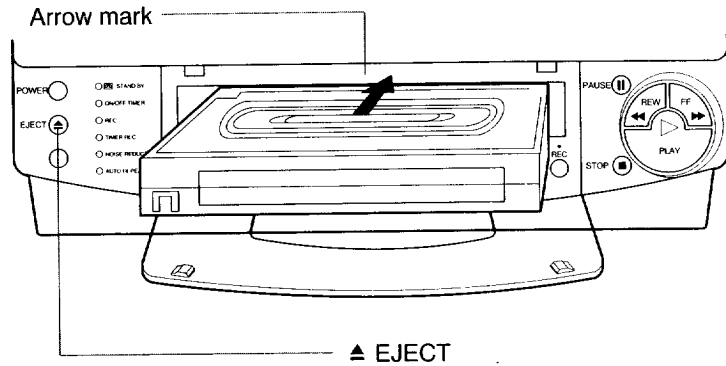
Chapter 4: Using Basic VCR Features

Playback


Inserting a Video Cassette



1 Insert a video cassette with the arrow mark facing upwards.




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2 Gently press the center of the front side of the cassette until the mechanism draws it into the compartment. When the cassette has been inserted, the  / STAND BY indicator lights and the VIDEO TV turns on automatically.

Note

When you insert a cassette without a safety tab, playback starts automatically (AUTO PLAYBACK function).

Ejecting the cassette

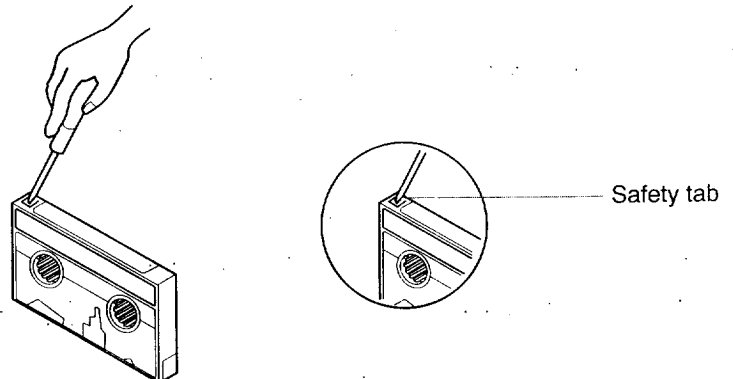
Press EJECT .

You can also eject the cassette when the power is off.

Protecting your cassette against accidental erasure

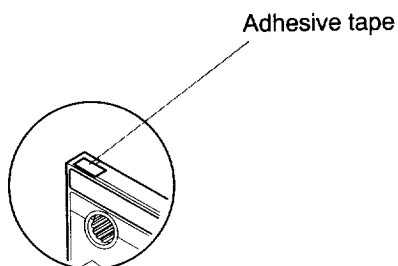
The cassette is provided with a safety tab to protect against accidental recording. Break off the safety tab with a screwdriver or other suitable tool.

If the safety tab is removed, the cassette will be ejected when you try to record on the cassette.





To record on a cassette with the safety tab broken off, simply cover the tab hole with adhesive tape.

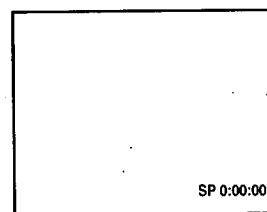


Maximum recording time of a tape

The quality of tape you use greatly affects record/playback quality and the life of the VIDEO TV. Use only cassette tapes that have the official VHS logo.

High-grade tapes give the best results, especially at the EP speed. They also have a better oxide coating that helps prevent dirty video heads. Although T-160 tapes offer the longest recording time, they contain thinner tape that is more likely to stretch or cause tape jams. We suggest that you use T-120 or shorter tapes.

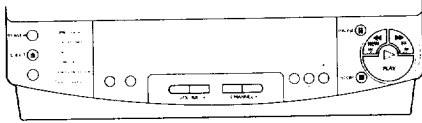
Recording in the SP, LP or EP mode is possible with this unit. When recording, select the desired recording mode (SP, LP or EP) with TAPE SPEED on the Commander. During playback, the unit automatically detects the recording format, and then plays back the tape in the appropriate mode.



The following chart shows the maximum recording times for T-60, T-120 and T-160 tapes at the three recording speeds.

Speed	T-60	T-120	T-160
SP	1 Hour (60 Minutes)	2 Hours (120 Minutes)	2 2/3 Hours (160 Minutes)
LP	2 Hours (120 Minutes)	4 Hours (240 Minutes)	5 1/3 Hours (320 Minutes)
EP	3 Hours (180 Minutes)	6 Hours (360 Minutes)	8 Hours (480 Minutes)

Playback



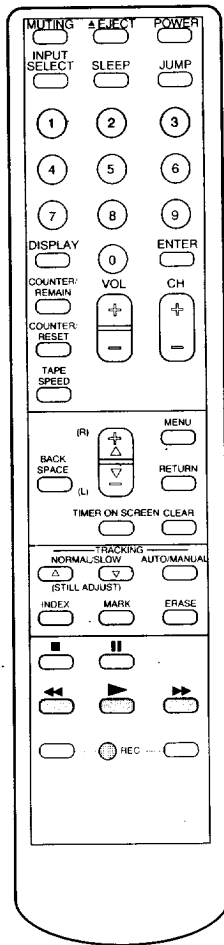
Playing Back a Prerecorded Cassette Tape

1 Insert a prerecorded cassette into the tape compartment. The VIDEO TV automatically turns on.

Note

When playing back rental tapes, NOISE REDUCTION indicator lights at the same time image detail improves.

2 If playback does not start, press PLAY ►. The tape plays back at the speed at which was recorded.



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To stop playback

Press STOP ■.

To stop playback for a moment

Press PAUSE |||.

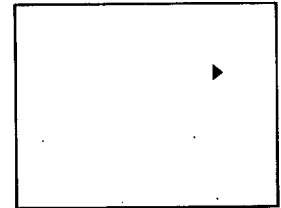
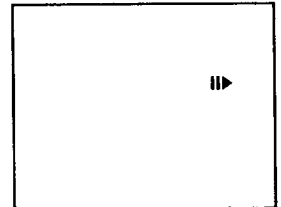
||| appears on the screen and image will stop on the screen.

To resume playback, press PAUSE ||| or PLAY ►.

► appears on the screen.

When the tape is played back to the end

The tape is automatically rewound to the beginning (auto rewind). The power remains on.



To rewind the tape to its beginning and to playback automatically (Auto Playback Function)

Press AUTO REPEAT on the VIDEO TV during playback or stop mode. The AUTO REPEAT indicator lights and until you press the button again to release AUTO REPEAT function the auto playback will continuously work.

Variable Speed Playback

You can enjoy playing back pictures in variable speeds on the VCR.

Still Picture

During playback mode, press PAUSE |||. To resume normal playback, press PLAY ► or PAUSE |||.

Notes

- No sound accompanies the picture, which may be unstable or have video "noise" in it. This is normal.
- If the VCR is left in the pause mode for more than about 5 minutes, the VIDEO TV re-enters TV reception mode automatically.



To advance the tape rapidly

While the tape is being played back, pressing FAST FORWARD ►► will move the tape forward at high speed so you can see the picture and choose where to stop. When you do this, [►►] appears on the screen.

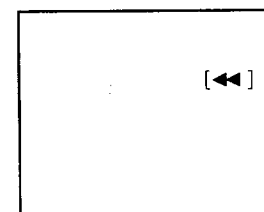
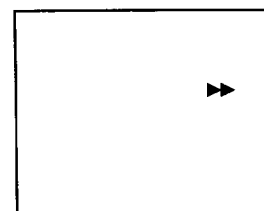
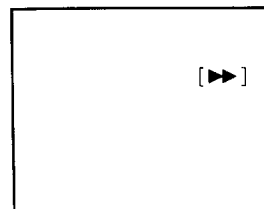
If you release the button, the VCR will return to normal playback.

When tape is not being played back and the VCR is in the stop mode, pressing FAST FORWARD ►► winds the tape forward at very high speed without displaying the picture.

When you do this, ►► appears on the screen.

You can stop the forward running of the tape at any time by pressing STOP ■.

If during the operation, the tape rewinds forward to the end, the machine will automatically stop and then rewind the tape back to the beginning again.



To rewind the tape rapidly

If you press REWIND/REVIEW ◀◀ while the tape is being played back, you can play the tape backwards to find a particular spot. When you do this, [◀◀] appears on the screen and the tape will be rewound at very high speed.

At the end, ■ appears on the screen and invite you to press PLAY ►.

Viewing TV Programs During Tape Playback

While a tape is being played, you can switch to watching TV broadcasts.

Press STOP ■.

The VIDEO TV returns to normal TV reception mode.

Playback

Playing Back a tape recorded on another VCR

When playing back a tape recorded on another VCR, there might be some picture noise.

Tracking ensures that the tape is correctly aligned with the playback head. It only works in the "playback" mode and its principle purpose is to minimize picture shake and what is called "noise" (fuzzy lines across the picture during playback and still picture).

It is adjusted either automatically or manually.

Automatic tracking adjustment function

When playback starts, the auto tracking automatically adjusts the picture. "AUTO TRACKING" flashes for 5 seconds.

The automatic tracking control is activated in the following conditions:

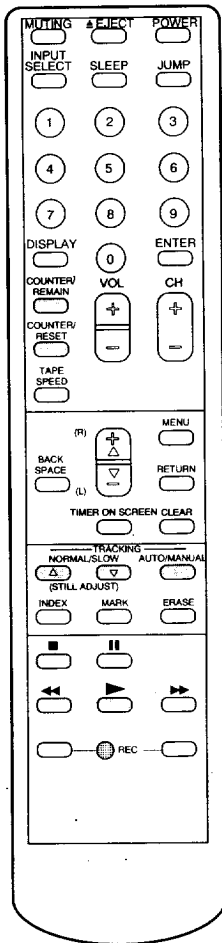
- When the cassette is inserted for the first time.
- When the recording mode on the playback tape is switched from SP to EP and back again.
- When the picture is distorted by scratches on the tape.
- When TRACKING AUTO/MANUAL is pressed after the picture is adjusted manually.

If auto tracking does not work, the tracking was probably last adjusted manually.

Adjusting the tracking manually

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

Press either Δ or ∇ to obtain the best possible picture. When playing back a tape recorded on another VCR, the tracking condition is automatically adjusted on this VCR.



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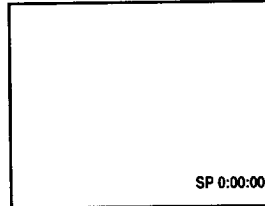
Notes

- Auto tracking adjustment may be impossible when the recording condition of the tape is poor.
- During auto tracking adjustment, streaks or noise may appear.

Using COUNTER/REMAIN

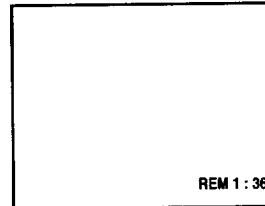
To display the counter, press COUNTER /REMAIN once.

The tape counter shows the tape travel time in hours, minutes and seconds during recording or playback.



To see the remaining tape time during recording or playback, press COUNTER/REMAIN twice.

The remaining tape time appears with "REM."



Note

For seeing the remaining tape time, first check the tape mode.

If you want to see the remaining tape time in T-120, press RETURN then $\Delta+$ or $\nabla-$ until T-120 appears in TAPE REMAIN screen. For OTHERS, press the button until OTHERS appears.

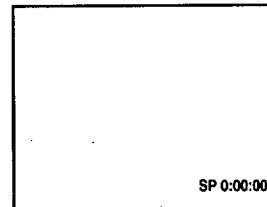
Using Counter Memory Function

The counter memory makes it easy to return to a particular spot on the tape after recording or playback. The tape stops when the counter reaches SP 0:00:00. This feature is especially helpful when editing a recording.

1 Press COUNTER/REMAIN to see the counter.

2 Start recording or playback, and press COUNTER RESET at the point you want to return to.

The counter displays SP 0:00:00.



3 Press STOP ■ when you finish recording or playing the tape.

4 Press REWIND/REVIEW ◀.

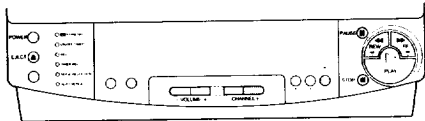
The tape stops at SP 0:00:00.

5 Press PLAY ▶ to play the tape.

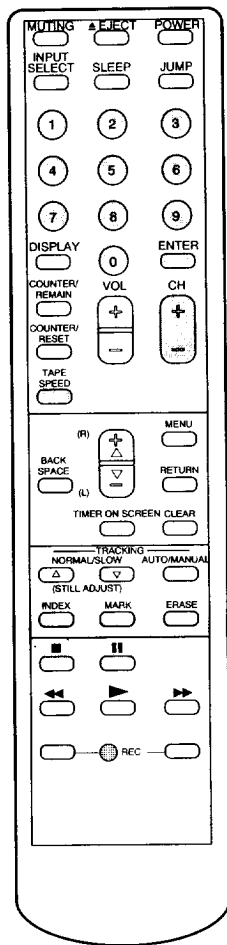
Chapter 5: Using Advanced VCR Features

Recording TV Programs

Recording TV Programs



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 and/or program owner.



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- 1** Insert a cassette with the safety tab.
The VIDEO TV turns on automatically (Auto power on).
- 2** Select the recording tape speed, SP, LP or EP, with TAPE SPEED.
- 3** Select the channel to be recorded with CHANNEL +/- or 0-9 buttons and ENTER.
- 4** Press the two REC buttons on the Commander at the same time, or the REC button on the unit.
The REC indicator lights.

To stop recording

Press STOP ■.

Temporarily to stop recording at a particular point

Press PAUSE || to eliminate unwanted station breaks or program material while recording a TV program.

REC || appears on the screen.

To resume recording, press PAUSE || again.

When the recording pause mode lasts for more than approximately 5 minutes, the unit enters the stop mode.

Note

When the tape reaches its end

The tape rewinds to the beginning. The power will remain on.

Recording a Program Without Watching the TV

Turn off the power of the TV.

There will be no interference with the recording.

You cannot watch another program while recording one program.

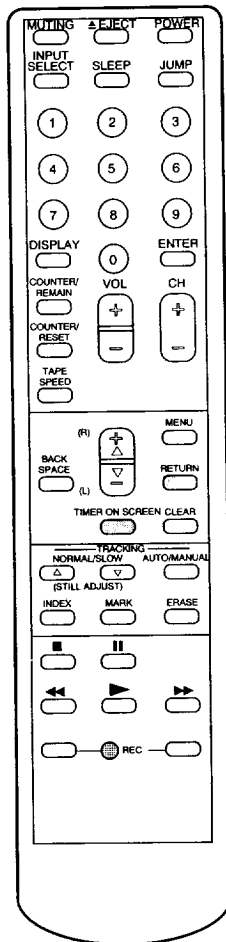
Timer Recording



You can preset up to six recordings up to one month in advance. The recordings can be preset with the Commander while referring to the **TIMER SET/CHECK** display on the screen.

Before you begin, check the following points.

- The date and clock must be set correctly. (See "Setting the Clock - CURRENT TIME SET" on pp. 25-26.)
- 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.



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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.

Setting the Timer

Example: Suppose you want to record a program broadcast on channel 26 from 9:00 PM on Thursday March 10 in EP mode. Note that 12:00 AM is midnight and 12:00 PM is noon.

- 1 Press **TIMER ON SCREEN**.
The **TIMER SET/CHECK** menu appears.

TIMER ON SCREEN



TIMER SET/CHECK			
DATE	START	STOP	CH
▶ -/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use **⇩** RETURN Exit MENU

- 2 Press **RETURN**.
Make sure that today's date is flashing.
If not, reset the correct time. See "Setting the Clock - CURRENT TIME SET" on pp. 25-26.


RETURN



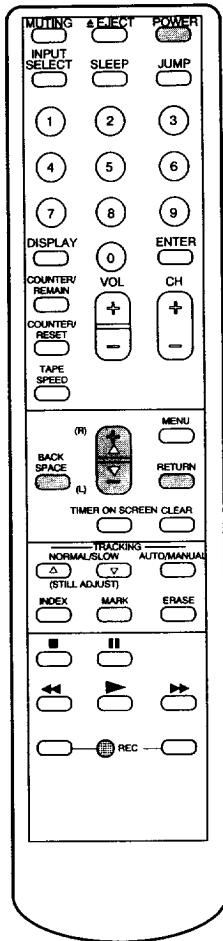
TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
3/4 TH	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use **⇩** RETURN Exit MENU

Note

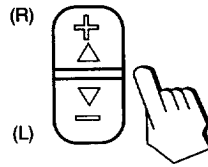
During timer recording,  / STAND BY indicator flashes.

Timer Recording



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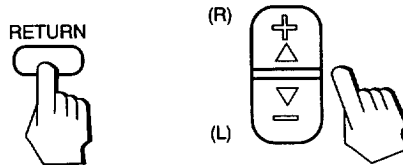
- 3** Press $\Delta+$ or $\nabla-$ to set the month and date to 3/10 THU.
The day of the week is automatically set.



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
3/10Thu	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU

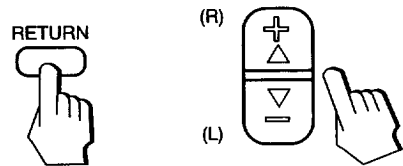
- 4** Press RETURN to flash the hours section under "START" then $\Delta+$ or $\nabla-$ until 9 PM appears.



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
3/10Thu	9:-PM	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU

- 5** Press RETURN to flash the minute section under "START" then $\Delta+$ or $\nabla-$ until 00 appears.



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
3/10Thu	9:00PM	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU

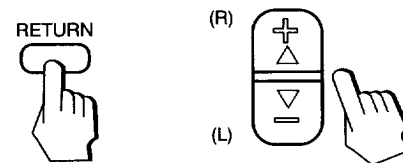
- 6** Press RETURN.
 The hours section flashes under "STOP." Set the turn-off time referring to steps 4 and 5.



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
3/10Thu	9:00PM	10:55PM	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU

- 7** Press RETURN to flash the CH position then $\Delta+$ or $\nabla-$ until 26 appears.

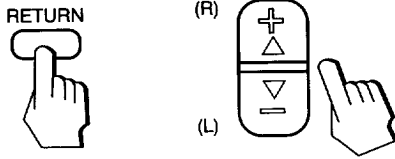


TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
3/10Thu	9:00PM	10:55PM	26-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU



8 Press RETURN to flash the recording speed position then $\Delta+$ or $\nabla-$ until EP appears.



TIMER SET/CHECK	3/1 TUE		
DATE	START	STOP	CH
3/10 THU	9:00 PM	10:55 PM	26 EP
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU

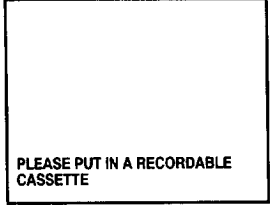
Note

The AT (AUTO SPEED) mode starts recording at the SP speed, but if it determines there isn't enough tape left to complete the programmed recording, it switches to the EP speed.

Notes

The following messages under each case appear on the screen:

- "PLEASE PUT IN A RECORDABLE CASSETTE" ---



When switched to stand-by mode for timer recording, if a cassette is not inserted or a cassette without safety tab is inserted.

9 Press RETURN to store the setting.



TIMER SET/CHECK	3/1 TUE		
DATE	START	STOP	CH
▶ 3/10 THU	9:00 PM	10:55 PM	26 EP
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-
-/-	-:-	-:-	-:-

Use \blacktriangleleft RETURN Exit MENU

- "PLEASE PUSH POWER OFF TO SET TIMER" ---

When the VIDEO TV is still turned on before the timer recording starts or when SLEEP OFF time and TIMER REC START overlap.

10 After you finish programming, press POWER to turn off the VIDEO TV. The *TIMER REC* indicator lights.

- "PLEASE STOP THE TAPE" ---
When TIMER ON SCREEN is pressed at the same time the tape is being played back.

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

- "VCR IS RECORDING" ---
When PLAY, FAST FORWARD, REWIND /REVIEW, EJECT, CH +/-, 0~9 buttons, INPUT SELECT, JUMP or MENU is pressed at the same time the timer recording is being done.

To preset another program
Move the cursor to the second line after step 9 and repeat steps 2 to 10.

Daily/Weekly Recording

You can preset the timer-activated recording to the same program everyday of the week (Daily recording), or one day of the week (Weekly recording).

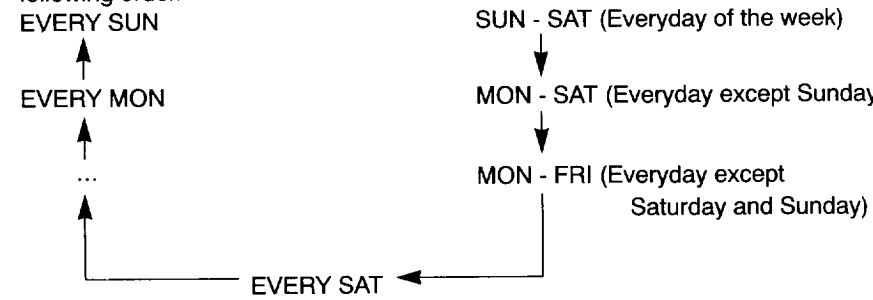
- "TIMER REC STARTS IN 5 MINUTES" ---
5 minutes before timer recording starts.

Follow steps 1 through 2 in "Setting the Timer" on page 37.

- "PLEASE SET THE CLOCK FIRST" ---
When TIMER ON SCREEN is pressed in the condition the current time is not set.

You can select the following programs.

Each time you press $\nabla-$, the indication under "DATE" on screen changes in the following order.

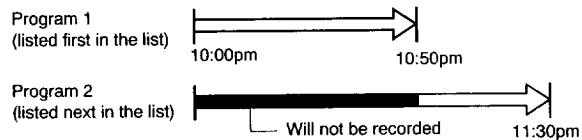


Timer Recording

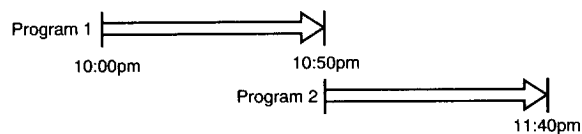
When preset timer recordings overlap

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 of lower priority programs will be done from the point after program 1 is finished.

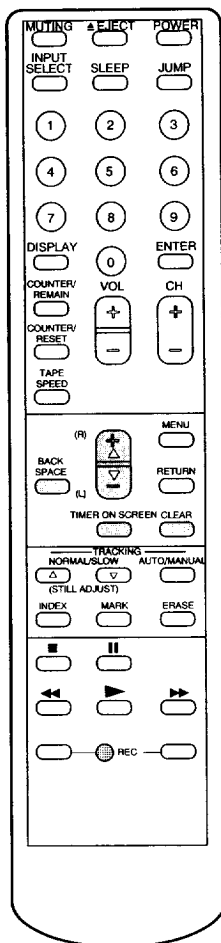
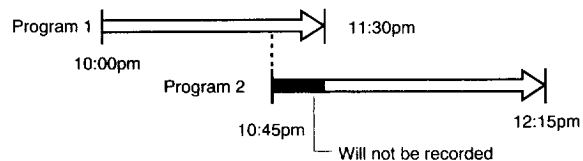


If the recording start time of program 2 is the same as the recording end time of program 1



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

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



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Note

If a power interruption occurs

- If a power interruption lasting less than approximately three hours occurs while the VCR is waiting for the preset time, the VIDEO TV re-enter the timer recording standby mode.
- If a power interruption lasting more than approximately three hours occurs before a timer recording, the memory clears. Reset the date and time for timer recording.
- If a power interruption lasting less than approximately three hours occurs during a timer recording, the VIDEO TV starts recording again.

Checking the Timer Settings

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

- 1 Press **TIMER ON SCREEN**.
The **TIMER SET/CHECK** display appears.

TIMER ON SCREEN



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
▶ 3/10THU	9:00AM	10:55AM	26EP
3/11FRI	1:00PM	2:15PM	10AT
3/4FRI	1:00PM	2:15PM	10SP
MON-FRI	11:00AM	2:15PM	11SP
SUN-SAT	11:00AM	2:15PM	25AT
EVERY-SAT	11:00AM	2:15PM	25AT

Use ◀ RETURN Exit MENU

- 2 Press **TIMER ON SCREEN** again to return to the original screen.

Changing or Cancelling the Timer Settings

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

- 1 Press **TIMER ON SCREEN**.
TIMER SET/CHECK display appears.

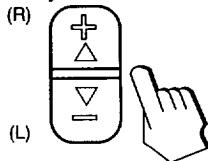
TIMER ON SCREEN



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
▶ 3/10THU	9:00AM	10:55AM	26EP
3/11FRI	1:00PM	2:15PM	10AT
3/4FRI	1:00PM	2:15PM	10SP
MON-FRI	11:00AM	2:15PM	11SP
SUN-SAT	11:00AM	2:15PM	25AT
EVERY-SAT	11:00AM	2:15PM	25AT

Use ◀ RETURN Exit MENU

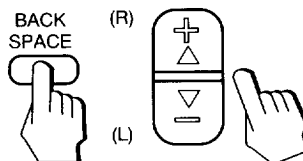
- 2 Press $\Delta+$ or $\nabla-$ to move the cursor to the program you wish to change or cancel.



TIMER SET/CHECK 3/1 TUE			
DATE	START	STOP	CH
▶ 3/10THU	9:00AM	10:55AM	26EP
3/11FRI	1:00PM	2:15PM	10AT
3/4FRI	1:00PM	2:15PM	10SP
MON-FRI	11:00AM	2:15PM	11SP
SUN-SAT	11:00AM	2:15PM	25AT
EVERY-SAT	11:00AM	2:15PM	25AT

Use ◀ RETURN Exit MENU

- 3 To change it, flash the item to be changed by pressing **BACK SPACE** and make the required changes by pressing $\Delta+$ or $\nabla-$.



To cancel it, move the cursor to the item to be cancelled by pressing $\Delta+$ or $\nabla-$ then press **CLEAR**.



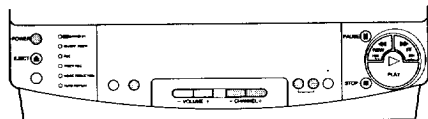
- 4 Press **TIMER ON SCREEN** to return to the original screen.

Note

The **TIMER SET/CHECK** display

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

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.

Notes

- Make sure that the clock is set correctly before you activate Quick Timer Recording.
- During Quick Timer Recording, you cannot change the channel on the VIDEO TV.

Notes

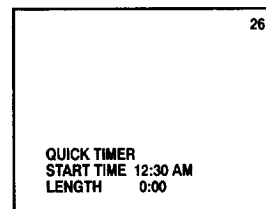
- To extend the Quick Timer Recording time, press LENGTH to advance the recording time in 30-minute increments.
- To clear the Quick Timer Recording setting, press LENGTH and START at the same time.
- If you try the Quick Timer Recording immediately without setting the start time, delete the step 4.
- If the tape runs out during Quick Timer Recording, recording will stop and the power goes off. The tape will not rewind automatically.
- If a power interruption occurs during Quick Timer Recording, recording will stop and the power goes off. If the power interruption lasts less than three hours and the power is restored before the recording end time, recording will start again from that point.

1 Insert a cassette. The VIDEO TV automatically turns on.

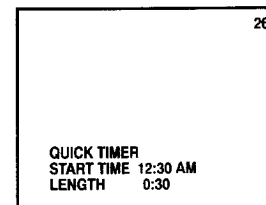
2 Press INPUT SELECT so that a channel number appears. Press TAPE SPEED to select the recording speed, SP, LP or EP.

3 Select the desired channel number with the 0-9 buttons and ENTER or CHANNEL +/-.
If you try to select the Cable TV channel, first set CABLE to ON in SET UP menu.

4 Repeatedly press START on the front panel to preset the start time.



5 Press LENGTH on the front panel to set the recording time which appears on the screen.
Each time you press LENGTH, the time length advances in 30-minute increments up to 9 hours.



6 Press POWER to turn off the VIDEO TV.

The VCR turns on at the preset time and starts recording, then stops at the preset time.

Index Function

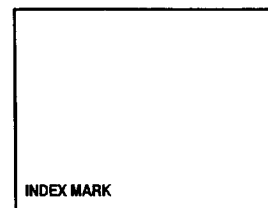


INDEX signal marks on the tape let you scan through the start of different programs or search for a specific section of tape.

Marking INDEX Signals

Automatic INDEX mark

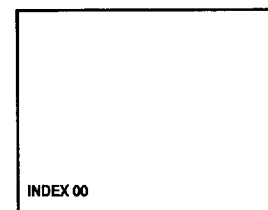
An INDEX signal is automatically marked at the beginning of recording.



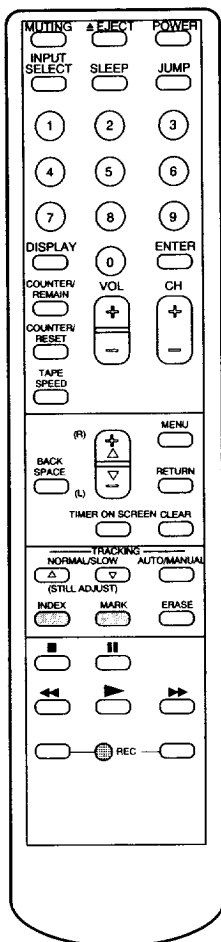
Manual INDEX mark

INDEX signals can be marked at any desired point during any recording or normal playback.

Press INDEX once.
INDEX 00 appears.



Then press MARK at the point where you want to mark INDEX signal. INDEX MARK appears on the screen.



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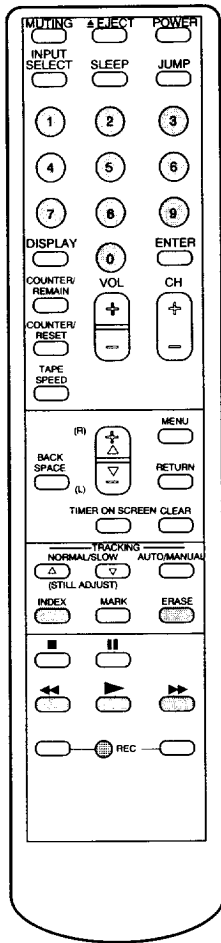
Notes

- 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 safety tab.
 - On an unrecorded portion of a tape.
 - Immediately before a point on the tape where the tape speed changes.

Index Function

Playing Back from the INDEX Point

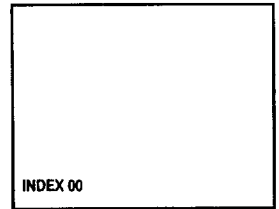
The beginning of each program can be found and played back by using the INDEX signals.



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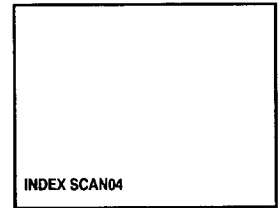
1 Insert a cassette with INDEX signals.

2 Press INDEX once during playback.
INDEX 00 appears on the screen.



3 Press either FAST FORWARD ►► or REWIND/REVIEW ◀◀ to start the INDEX scan. The tape rewinds or rapidly advances to the next marked signal.

The tape plays back for about 5 seconds, then rewinds or rapidly advances to the next INDEX signal. Each time INDEX signal is detected and playback begins, the INDEX scan number (INDEX SCAN 04) appears.



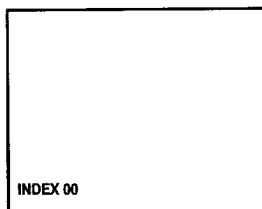
4 When the desired program is detected, press PLAY ►.
Playback starts from that point.

Locating the Desired Program (INDEX Search)

A particular program can be located and played back by designating how many INDEX signals ahead or behind that program is from the current position.

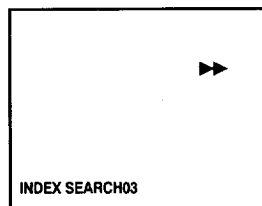
1 Insert a cassette with INDEX signals.

2 Press INDEX.
INDEX 00 appears.



3 Using the 0-9 buttons, enter the number of INDEX signals you want to skip.
For example, if the tape is at INDEX 02 and you want to locate INDEX 05, press 0 3.

4 Press either FAST FORWARD **▶▶** or REWIND /REVIEW **◀◀**.
INDEX SEARCH03 appears on the screen. When the desired signal is found, playback begins automatically.

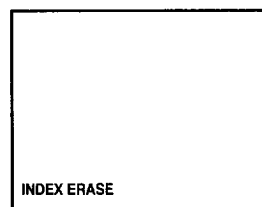


Erasing INDEX Signals

You can erase unnecessary INDEX signals.

1 Press INDEX during playback.
INDEX 00 appears.

2 Press ERASE.
INDEX ERASE appears on the screen.



3 Press either FAST FORWARD **▶▶** or REWIND/REVIEW **◀◀**.
The first subsequent INDEX signal is erased and the tape begins playback.

Note

While INDEX signal is being erased, the recorded sound is temporarily muted.

Appendix Specification

Television system	American TV standard	Power consumption	KV-13VM20/21: 85W KV-20VM20: 100W
Recording system	Rotary two-head helical scan system	Dimensions (WHD)	KV-13VM20/21: 15 ^{1/2} " X 16 ^{5/8} " X 15" 390 X 416 X 384mm KV-20VM20: 20 ^{7/8} " X 20 ^{1/8} " X 19" 531 X 511 X 482mm
Channel coverage	VHF: 2 - 13 UHF: 14-69 Cable TV: 1-125	Weight	KV-13VM20/21: Net: 14.65 kg(32.3 lbs) Gross: 16.65 kg(36.7 lbs) KV-20VM20: Net: 28.3kg(62.4lbs) Gross: 30kg(66.1lbs)
Picture tube	KV-13VM20/21: Microblack™ Trinitron® tube 13-inch picture measured diagonally 14-inch picture tube measured diagonally KV-20VM20: Trinitron® Tube 20-inch picture measured diagonally 21-inch picture tube measured diagonally	Tape Speed	SP: 33.35 mm/sec. LP: 16.67 mm/sec. EP: 11.12 mm/sec.
Antenna	75-ohm external antenna terminal for VHF/UHF	Maximum recording/playback time	9 hours in EP mode
LINE IN	VIDEO IN (phono jack) (1 each) Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative AUDIO IN (phono jack) (1 each) Input level: 400 mVrms Input impedance: 47 kilohms	Fast-forward and rewind time	Approx. 4 min. 30 sec. (T-120 tape)
Power requirements	120V AC, 60 Hz	Supplied accessories	Remote commander RM-Y126 (1) with 1 size AA (R6) battery Antenna Adapter (1)

Note

Design and specifications are subject to change without notice.

Troubleshooting

VCR OPERATION

Symptoms	Suggestions
Cannot load video cassettes	<ul style="list-style-type: none">• Insert the cassette with the window side up and the safety tab facing you.• Check if a video tape is already in the VCR.
No operation when buttons are pressed	<ul style="list-style-type: none">• Cancel the QSR stop time.
Auto play function doesn't work or TV programs can't be recorded	<ul style="list-style-type: none">• Make sure that the receiving channel of the set is properly tuned.• Make sure that the safety tab on the video cassette tape is still intact.• Check antenna wires, connections and direction.
Timer recording can't be performed	<ul style="list-style-type: none">• Make sure the recording start/stop time is correct.• Reconnect the power plug to an AC outlet, and reset the program recordings.
There is no picture in playback, or the playback picture is noisy or contains streaks	<ul style="list-style-type: none">• Check that power is set to ON.• Check that the video cassette tape has a recorded program.• Check the tracking control (for noise streaks)
Video cassette tape was inserted incorrectly	<ul style="list-style-type: none">• Wait a few seconds. The video cassette tape should eject itself.

Troubleshooting



If you have a problem with the VIDEO TV, 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 authorised Sony service facility.

VIDEO TV RECEPTION

Symptoms	Suggestions
No picture or sound	<ul style="list-style-type: none">• Make sure the unit is plugged into a working AC outlet.• Make sure it is not set to LINE IN mode.• Check that POWER is set to ON.• Check the antenna wires, connections and direction.
Picture OK, sound poor	<ul style="list-style-type: none">• Adjust the sound.
Sound OK, no picture	<ul style="list-style-type: none">• Try another channel.• Adjust the picture.
Picture weak or blurred	<ul style="list-style-type: none">• Check the antenna wires, connections and direction.• Adjust picture control.
Picture rolls vertically	<ul style="list-style-type: none">• Check the antenna wires, connections and direction.
Ghosts (multiple images)	<ul style="list-style-type: none">• Check the antenna wires, connections and direction.• Install a directional antenna.
Wrong color or no color	<ul style="list-style-type: none">• Adjust color and hue controls.
No response to button pressing	<ul style="list-style-type: none">• Press the buttons carefully again. Unplug the set, then plug it in and try again.
No response to remote control	<ul style="list-style-type: none">• Check the polarity (+ and -) of the batteries.• Replace the batteries.