

Video TV Recorder **8**

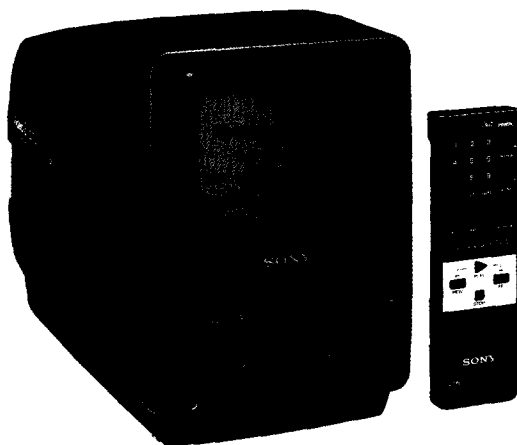
# EV-DT2

## Operating Instructions

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

PROPERTY OF THE  
NATIONAL TECHNICAL DEPT.

FILE COPY  
Do not remove



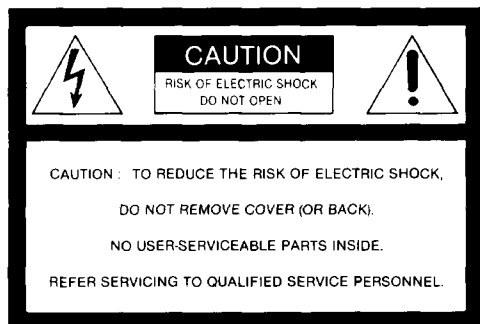
Video 8  
**COMBO**

# WARNING

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

Model No. EV-DT2      Serial No. \_\_\_\_\_

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



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

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

### INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna

- Relocate the equipment with respect to the receiver

- Move the equipment away from the receiver

- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

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

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

## For the customers in Canada

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

### CAUTION

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

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

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

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# Precautions

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## On safety

- Operate the unit on 100–120 V AC, 50/60 Hz.  
In Canada, only operation on 120 V AC is certified by the CSA (Canadian Standards Association).  
For DC operation, operate the unit on 12 V or 24 V DC.
- When using with a 12/24 V car battery, use only the supplied car battery cord.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

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## On installation

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

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## On operation

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

**For the precautions on operation in the car, see "Precautions on using the unit in the car" on page 11.**

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## On cleaning

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

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## On repacking

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

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

## Notes on 8 mm video format and EV-DT2

- This unit uses 8 mm video format cassettes. It can record in the SP mode (approximately 1.43 cm/second) and the LP mode (approximately 0.72 cm/second) and can play back in the SP mode and the LP mode.
- This unit is not equipped with PCM (digital audio) recording/playback functions. The PCM sound recorded with another recorder cannot be played back with this unit.

# Overview of This Unit

The video TV recorder EV-DT2 is a portable 8 mm video deck with a built-in TV tuner.

You can enjoy the following functions using this unit only. Before you begin operating the unit, read this manual in the following order.

## Playing back 8 mm cassette tapes

### Connecting the power source

- To use the unit indoors (page 10)
- To use the unit in a car (page 10)

### Playing back a tape

(page 14)

## Watching TV programs

Before you begin, the following preparations will be required.

### Connecting a TV antenna/cable

Select the connection which gives best quality picture.

- To attach the supplied telescopic dipole antenna (page 20)
- To connect an outdoor antenna
  - to both this unit and another TV (pages 45 to 47)
  - to only this unit (pages 45 to 47)

### Connecting the power source

page 10

### Presetting TV channels

- To add channels (page 50)
- To erase channels (page 50)

### Watching TV programs

(page 20)

### Watching TV programs in a car

(page 22)

## Recording TV programs

### Setting the clock (for timer-activated recording)

(page 48)

### Recording TV programs

(page 24)

### Timer-activated recording

(page 26)

# Overview of This Unit

## Features

### Menu function

Various operations such as timer settings can be guided by a menu displayed on the screen.

### Data screen

Information such as the tape counter and tape speed is displayed on the monitor screen for checking.

### Timer-activated recording

Up to three events within a seven-day period can be preset for recording.

### Wireless Remote Commander

Remote control operation for the TV and the VCR including various playback mode can be performed with the supplied Commander.

### Automatic channel tuning (Seek function)

Channels which have not been preset can be easily and precisely tuned in by pressing the SEEK button.

### Synchronized edit function

A press of the SYNCHRO EDIT button enables two VCRs to be operated simultaneously during tape editing.

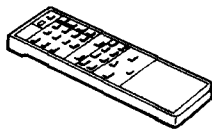
## What is the Menu Function?

For many operations, such as timer settings and picture adjustments on the TV, this unit uses the menu.

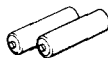
To use the menu, select the item to be set from several items displayed on the screen, and then select more detailed item from the selected setting display.

In this unit, first push to open the FUNCTION MENU table. A MENU display showing eight setting items will appear on the screen. Select the desired item so that the screen changes to the desired setting display. Then operate for the setting, watching the display on the screen.

## Supplied Accessories Please check that the following accessories are supplied with your unit.



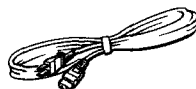
Remote Commander RMT-442 (1)



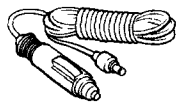
Size AA (R6)  
batteries (2)



Lithium battery CR2032 (1)

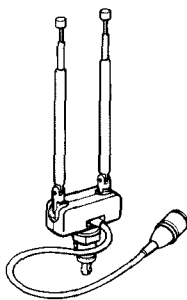


AC power cord (1)



Car battery cord DCC-16AW (1)

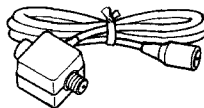
Instruction Manual (1)



Telescopic dipole antenna (1)



Antenna holder (1)

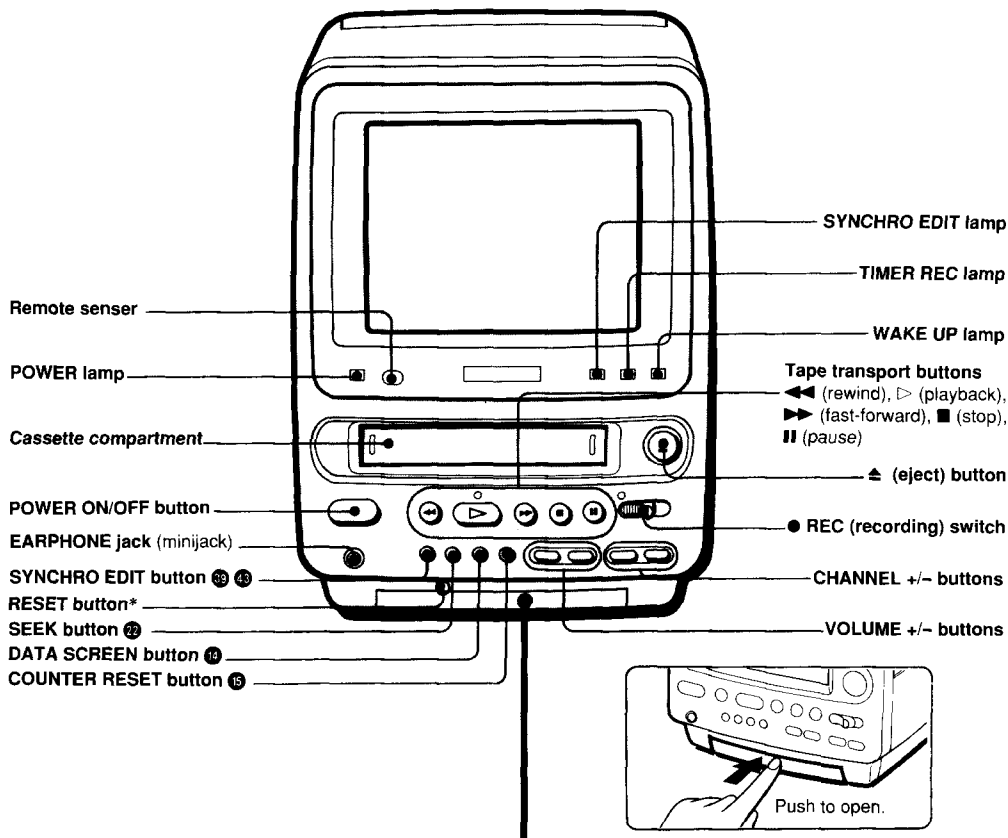


Signal splitter (1)

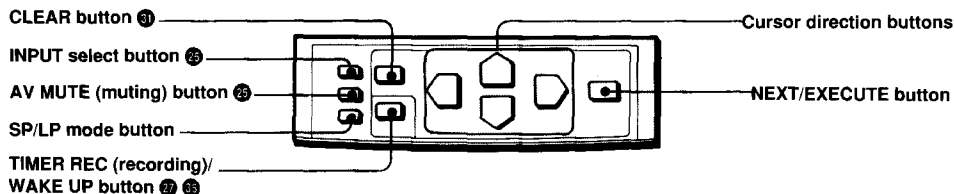
# Location and Function of Controls

Please refer to the pages in  
black circle ( ).

## Front



## FUNCTION MENU table

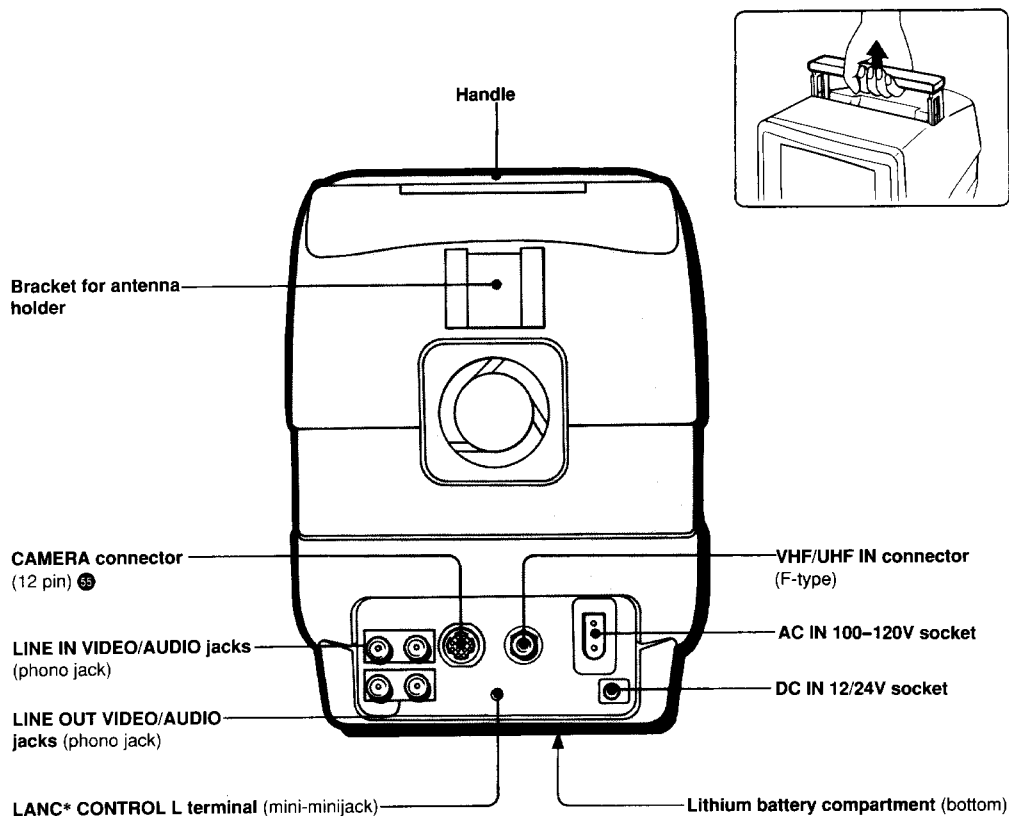


### \*About the RESET button

If the unit cannot be operated by pressing any button, press this button with a pencil or a similar. In this case, all the lamps on the unit will blink for a moment. However, this does not indicate a failure of the unit. Pressing the RESET button will erase the memory of the settings. Therefore, reset the settings as necessary.

## Location and Function of Controls

### Rear



#### \*About the LANC

LANC stands for Local Application Control Bus System.

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



## Remote Commander

### Buttons equipped with only the Remote Commander

#### Channel number buttons

Press the number button(s) and then ENTER to select channels.

#### Buttons for various playback modes

PAUSE / FRAME (frame-by-frame) / X2 / X1/10 / X1/5

#### MUTING button

Press to mute the sound of a TV.

### Buttons which have the same function as those on the unit.

DATA SCREEN button

POWER switch

CHANNEL +/- buttons

VOLUME +/- buttons

ENTER button

Press after pressing numerals to select channels.

● REC (recording) buttons

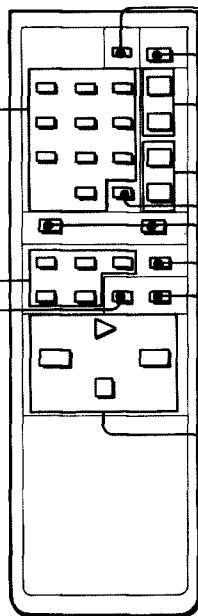
Press both buttons simultaneously to start recording.

WAKE UP button

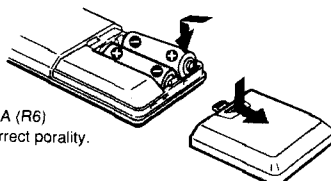
COUNTER RESET button

Tape transport buttons

PLAY (playback), FF (fast-forward), STOP (stop), REW (rewind)



## Battery Installation



Insert two size AA (R6) batteries with correct polarity.

Under normal operation, **batteries will last for about six months**. When the batteries are exhausted, the buttons on the Commander will not function. Replace both batteries with new ones.

**If the Commander is not to be used for a long period of time**

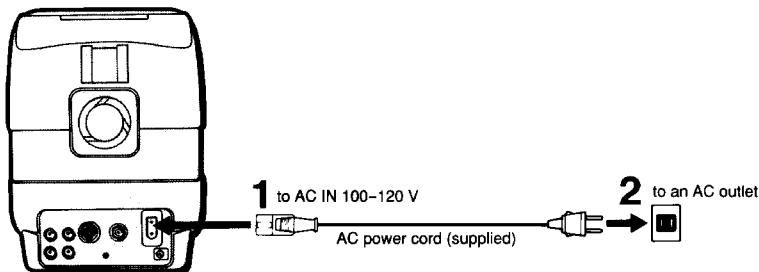
Remove the batteries to avoid possible damage caused by battery leakage.

# Connecting the Power Sources

Supply power to the EV-DT2 from house current, car battery (12 V or 24 V DC), or NP-4000 rechargeable battery pack.

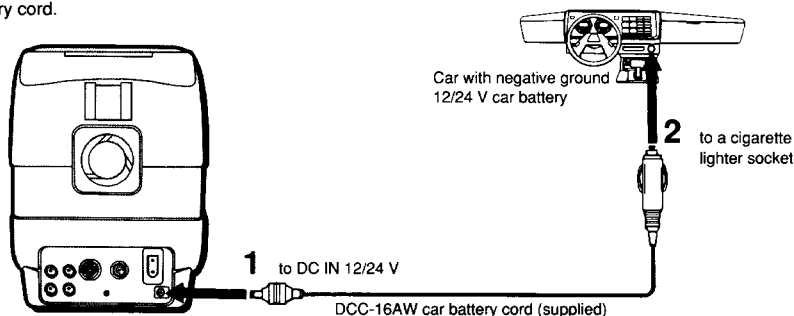
## To Use the Unit Indoors

Connect the supplied AC power cord to the AC IN 100–120 V socket of the unit and the AC outlet.



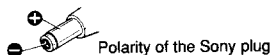
## To Use the Unit in the Car

Connect the DC IN 12/24 V jack on the unit to a 12/24 V cigarette lighter socket of the car with the supplied Sony DCC-16AW car battery cord.



### Notes

- Use only the supplied car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.
- Do not connect the AC power and DC power sources simultaneously.



### Fuse replacement of the car battery cord

If the unit does not seem to function normally, check whether the fuse in the input plug of the car battery cord is blown. If the fuse is blown, replace it with a commercially available 5 A fuse.

- 1 Turn off the EV-DT2 and unplug the car battery cord from the cigarette lighter socket.
- 2 Loosen and remove the plug head.



- 3 Remove the fuse.



- 4 Install a new fuse and replace the plug head.

### Notes

- Use only a fuse of the same type and rating of the original one. Never use wire.
- Always keep the cigarette lighter socket of the car clean to avoid bad contact resulting in overheat of the cord plug.

## Notes on Using the Unit in a Car

### On using the car battery cord

- Be sure to remove the car battery cord from the unit when not in use.  
If the car battery cord is connected to the cigarette lighter socket, the car battery will become exhausted, even if the unit is turned off.
- Connect the car battery only to cars with negative ground 12 V or 24 V car battery.
- Start the engine before you use the unit.
- When the voltage of the car battery drops, the power of the unit may be turned off.
- If you use several pieces of equipment that draw heavily on the car battery, such as high-beam headlights, windshield wipers, or air-conditioner, together with the EV-DT2 while the car engine is idling, the voltage of the car battery will drop and the BATTERY indicator may blink on the screen. Once the car engine revs pickup after the car starts running, the BATTERY indicator will disappear. Note that using the unit for a long time with the BATTERY indicator blinking may exhaust the car battery.

### On using the unit while driving a car

- Do not watch TV pictures or operate the unit while you are driving.
- As the condition of the incoming signal fluctuates, a stable picture may not be obtained in a moving car.
- Do not use the unit when the temperature inside the car is below 5°C(41°F) or over 40°C(104°F).

### When leaving the unit in the car

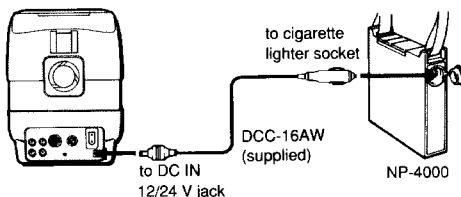
- Remove the cassette from the unit.
- If the unit is left in the car with the windows closed under direct sunlight and there has been a considerable rise in temperature in the car, allow the unit to cool off before use.

### On installation in the car

- Avoid installing the unit where
  - it would disturb normal driving operation.
  - it would be exposed to rain or moisture.
  - it would be subject to dust or dirt.
  - it would be subject to excessive vibration.
- Do not install the unit in a position inclined to more than 40°.

### Using with Sony NP-4000 rechargeable battery pack

The optional NP-4000 battery pack allows you to operate the EV-DT2 outdoors as well as in the car.



A fully-charged NP-4000 provides approximately 1 hour of continuous operation. However, when it is used in a cold location, its operating time will be shortened. When the battery pack becomes weak, the BATTERY indicator will blink on the screen. Replace or recharge the battery pack. To charge it, refer to the instructions provided with the NP-4000.

### Using with Sony car connecting pack

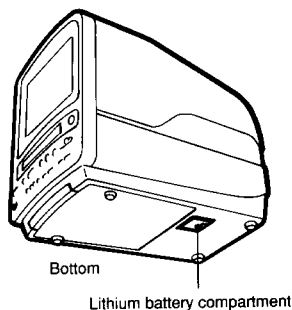
You can enjoy the sound from the EV-DT2 through your cassette car stereo by using the optional Sony CPA-2 car connecting pack.

- 1 Connect the car connecting pack to the EARPHONE jack on the EV-DT2.
- 2 Set the volume of your cassette car stereo to the minimum level.
- 3 Insert the CPA-2 into your cassette car stereo with the right side up.
- 4 Set the tape selector to the normal (TYPE 1) position and the DOLBY NR switch, if provided, to OFF.
- 5 Start playback as you would for a tape from the front side.
- 6 Start playback or broadcast on the EV-DT2.
- 7 Adjust the volume.

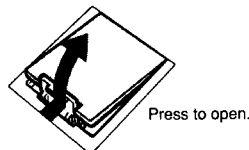
For details, refer to the instructions provided with the car connecting pack.

# Inserting a Lithium Battery

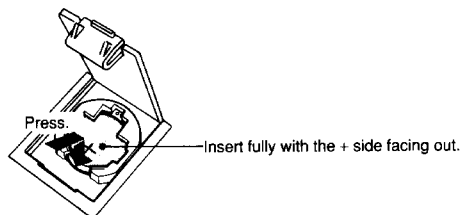
This unit uses a lithium battery to keep various settings such as clock and timer settings in memory when the power source is disconnected.



## 1 Open the cover of the lithium battery compartment at the bottom.



## 2 Install the supplied CR2032 lithium battery and close the cover.



## To Remove the Lithium Battery



## Lithium Battery Life

In normal operation, the lithium battery lasts for **approximately six months**.

When the lithium battery has been exhausted, the "SUN AM0:00" indicator will blink when the power is turned on. Replace the battery with a new Sony CR2032 lithium battery. Use of a battery other than Sony CR2032 lithium battery may present a risk of fire or explosion. After replacing the battery, reset the clock and other settings.

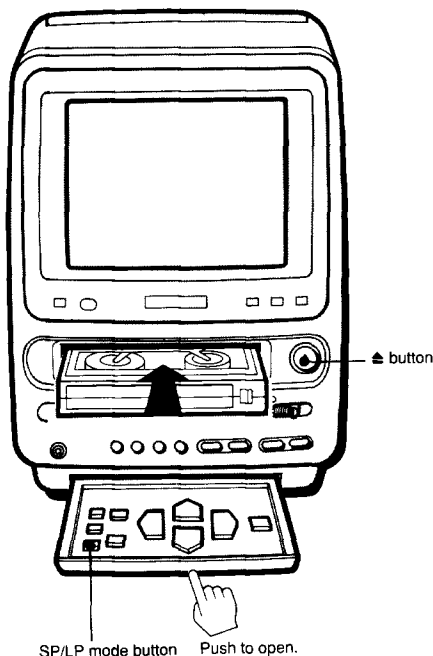
### Notes on lithium battery

- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Be sure to install the battery with correct polarity.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.
- Do not break up the battery nor throw it into a fire, which might cause it to explode. Carefully dispose of the used batteries.

### WARNING

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

# Handling the Video Cassette



## Inserting a Cassette

Make sure that the power source is connected to the unit.

Insert a cassette with the window facing upwards. When the cassette is automatically taken into the cassette compartment, release your hand from the cassette. The power will be automatically turned on.

### Notes

- Never insert anything in the small holes on the rear of the cassette.
- Store cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.
- Do not put anything except the cassette into the cassette compartment.

## Ejecting a Cassette

Press ▲.

(During recording, press ■ to stop the tape, and then press ▲.)

The cassette can be ejected even when the power of the unit is turned off.

## To Avoid Erasing Prerecorded Video Contents

When a new recording is made on a previously recorded cassette, the previous recording will be automatically erased. To avoid unintentional erasure of pre-recorded video sources, slide the tab out to cover the opening. To re-record on the cassette, slide the tab in.



Recording not available  
when the red portion appears.

Recording available

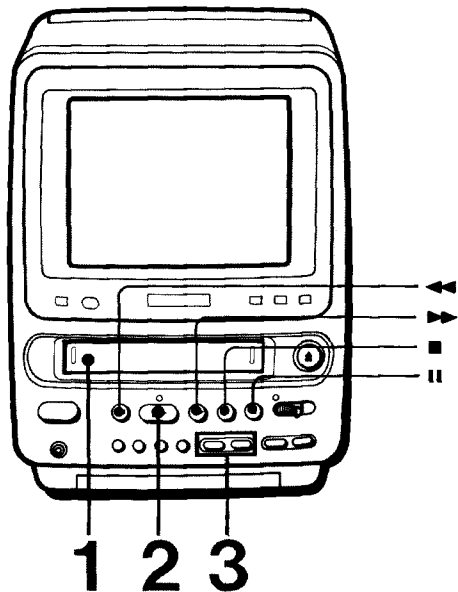
## Recording/Playback Time

For recording, select the desired recording time by the SP/LP mode button. The recording time in the LP mode is twice as long as that in the SP mode. The quality of the recording picture in the LP mode, however, will not be as good as that in the SP mode.

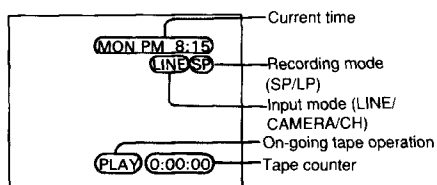
For playback, the unit automatically detects the recording format, SP or LP, of the cassette and plays it back in the appropriate mode.

Cassette used	Recording time	
	SP	LP
P6-15	15 min.	30 min.
P6-30	30 min.	1 hr.
P6-60	1 hr.	2 hrs.
P6-90	1 hr. 30 min.	3 hrs.
P6-120	2 hrs.	4 hrs.

# Playing Back a Tape



## On-screen display during playback



To make the display disappear, press DATA SCREEN. Press again to restore it.

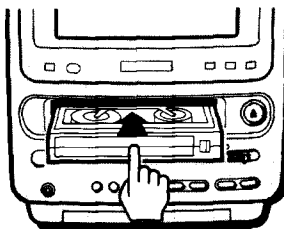
- To stop playback — Press ■ (stop).
- To rewind the tape — Press ◀ (rewind).
- To advance the tape rapidly — Press ▶▶ (fast-forward).

**When the tape reaches its end during playback**  
It will be automatically rewound to the beginning and stop.

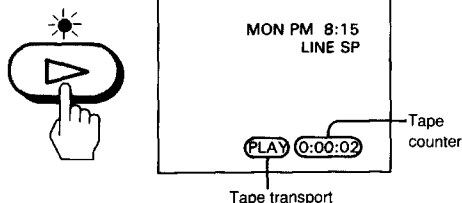
### Using the auto menu function

Various automatic tape operations are available. (See page 17.)

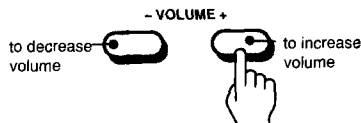
- 1 Insert a cassette. (See page 13.)**  
The unit is automatically turned on.



- 2 Press ▷ to start playback.**

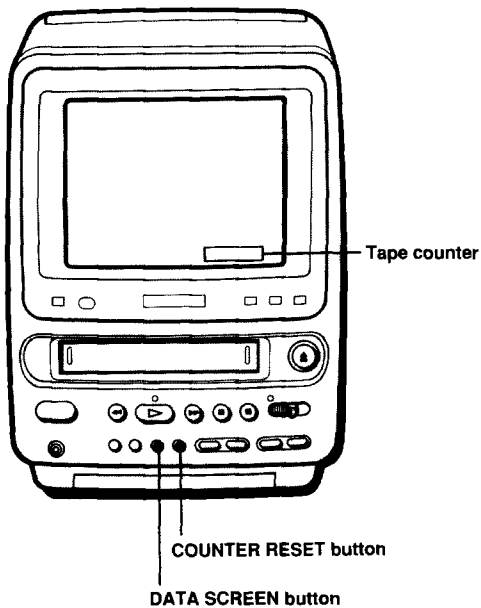


- 3 Adjust the volume.**



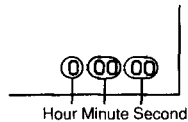
# Using the Tape Counter

The tape counter on the TV screen indicates the approximate running time of the tape. By noting the counter reading at a particular point during recording or playback, you can easily locate that point later.



## To set the counter to zero

COUNTER  
RESET



The counter is set to "0:00:00".

### Note

The counter is automatically reset to "0:00:00" when the cassette is ejected and then inserted again.

## To make the counter display disappear

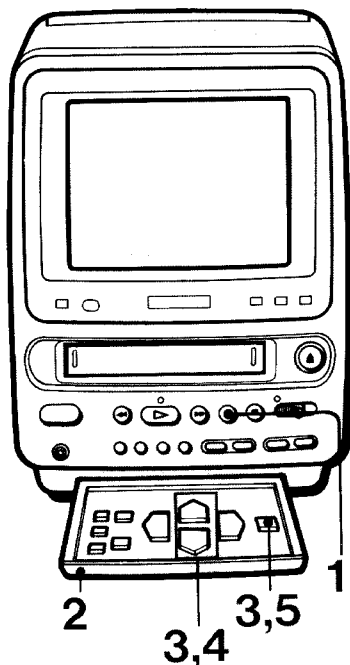
DATA  
SCREEN



Press the button again to restore the display.

# Using the Auto Menu Function

You can preset continuous tape operations and have the unit enter the mode automatically by selecting one of the items shown on the AUTO MENU display.



## 1 Press to stop the tape.



## 2 Push to open the FUNCTION MENU table.

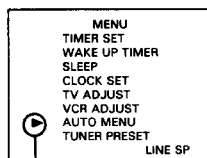
The MENU display will appear.

## 3 Move the cursor to AUTO MENU and press NEXT/EXECUTE.

upwards



downwards



NEXT/  
EXECUTE



Each press moves the cursor by one line.

The AUTO MENU display will appear.

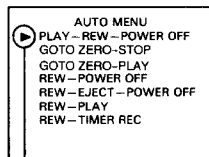
## 4 Move the cursor to the desired auto menu mode.

(Refer to the next page for each mode.)

upwards



downwards



Cursor

## 5 Press NEXT/EXECUTE.

NEXT/  
EXECUTE



The tape operations of the selected mode will be carried out automatically in sequence.  
The screen will change to the MENU display.

**To resume the normal screen without selecting the auto menu mode**

Push to close the FUNCTION MENU table.

**The AUTO MENU display does not appear when NEXT/EXECUTE is pressed in the following cases:**

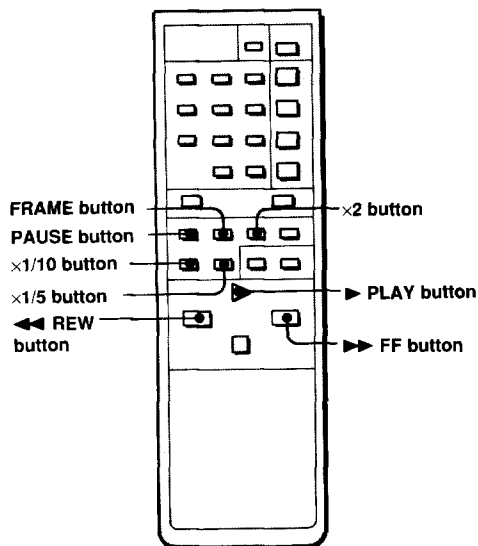
- No cassette is inserted.
- The tape is running. (Stop the tape.)








## Auto menu modes

<b>PLAY-REW-POWER OFF</b>	The tape is played back to its end and rewound to the beginning. Then the power is turned off.
<b>GOTO ZERO-STOP</b>	<p>The tape is advanced or rewound close to the counter zero point and then stops. (Tape return function)</p> <ul style="list-style-type: none"> <li>Before selecting this mode, press COUNTER RESET at the point you want to locate later during playback or recording.</li> </ul> <p><b>Note</b></p> <p>This mode cannot be activated when the counter indicates less than "±0:00:59" (59 seconds).</p>
<b>GOTO ZERO-PLAY</b>	<p>The tape is advanced or rewound close to the counter zero point and then starts playback. (Tape return play function)</p> <ul style="list-style-type: none"> <li>Before selecting this mode, press COUNTER RESET at the point you want to locate later during playback or recording.</li> </ul> <p><b>Note</b></p> <p>This item is not activated when the counter indicates less than "±0:00:59" (59 seconds).</p>
<b>REW-POWER OFF</b>	The tape is rewound to its beginning and then the power is turned off.
<b>REW-EJECT-POWER OFF</b>	The tape is rewound to its beginning. Then the cassette is ejected and the power is turned off.
<b>REW-PLAY</b>	The tape is rewound to its beginning and starts playback. (Auto play function)
<b>REW-TIMER REC</b>	<p>The tape is rewound to its beginning and is set to timer-activated recording standby mode.</p> <ul style="list-style-type: none"> <li>Before selecting the mode, a timer recording should be preset. (See page 26.)</li> </ul>

# Various Playback Modes



During playback	To obtain a still picture	<b>PAUSE</b>  Commander
During a still picture	To advance the picture frame-by-frame	
During playback or in still picture mode	To watch a slow motion playback picture	at 1/10 normal speed  Commander
	To watch a double speed playback picture	 Commander
	To search for a particular scene—Picture search	<b>To rewind</b>  Main unit
During fast-forward or rewind mode	To watch the picture during fast-forward or rewind mode	<b>To rewind</b>  Main unit

## Picture and sound during picture search mode

A few streaks will appear. When playing back the tape recorded in SP mode, the picture may be distorted or become black and white. The sound will be muted.

or



Main unit

To resume normal playback

FRAME



Commander



Main unit

at 1/5 normal speed



Commander



Commander

The sound will be heard.

To advance



or  
Commander  
(Keep pressed.)



Main unit  
(Keep pressed.)



or  
Commander  
(Keep pressed.)

To advance



or  
Commander  
(Keep pressed.)



Main unit  
(Keep pressed.)



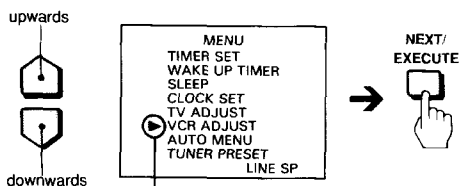
or  
Commander  
(Keep pressed.)

When you release the button, previous playback mode will resume.

## Adjusting the picture in various playback modes

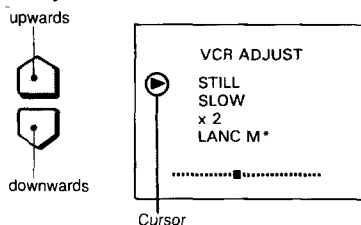
- 1 Push to open the **FUNCTION MENU** table.  
The MENU display will appear.

- 2 Move the cursor to **VCR ADJUST** and press **NEXT/EXECUTE**.



Each press moves the cursor by one line.

- 3 Press or to move the cursor to the item to be adjusted.



Cursor

<b>STILL</b> (still picture)	When the still picture shakes vertically
<b>SLOW</b> (slow motion playback)	When streaks appear during slow motion playback
<b>x2</b> (double speed playback)	When streaks appear during double speed playback

\* For the item "LANC M/S", see page 39.

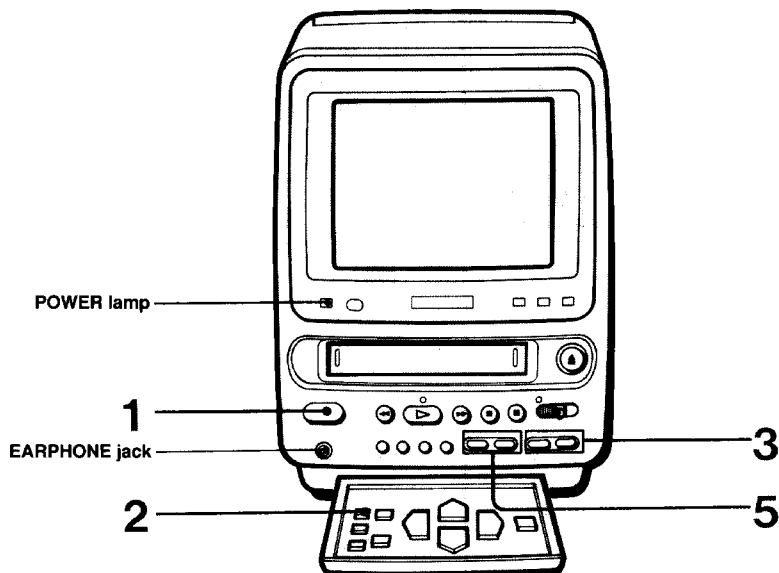
- 4 Press or to make adjustments while watching the picture.

- 5 Close the **FUNCTION MENU** table.  
The normal screen will be resumed.

## Sound in double speed playback mode

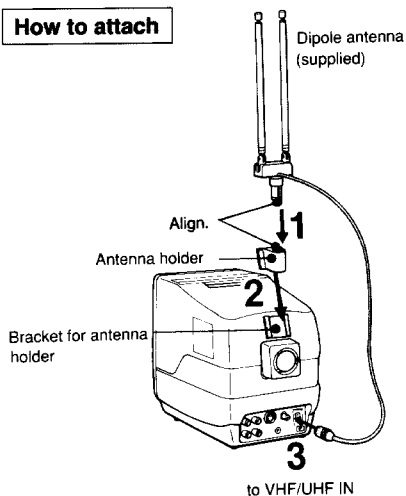
The sound will be more distorted than in normal playback mode.

# Watching TV Programs



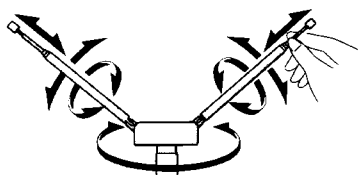
## Using the supplied antenna

### How to attach

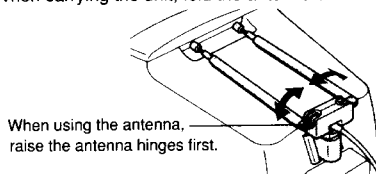


### How to adjust

Adjust the antenna for the best reception.



When carrying the unit, fold the antenna as shown.



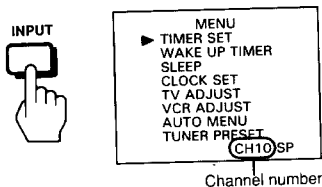
When using the antenna, raise the antenna hinges first.

# 1 Turn on the power.



The POWER lamp lights.

# 2 If a TV program is not displayed on the screen; Push to open the FUNCTION MENU table. Press the INPUT select button so that the channel number appears.



Close the FUNCTION MENU table.

# 3 Select the desired channel.

Using CHANNEL +/-



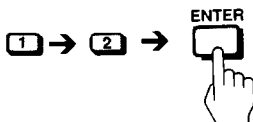
For a smaller numbered-channel



For a larger numbered-channel

Using the channel number buttons and ENTER on the Remote Commander

Ex. To select channel 12



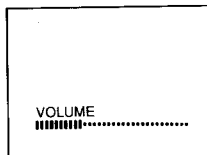
# 4 If the supplied antenna is used; Adjust the direction and length of the antenna for the best reception. (See page 20.)

# 5 Adjust the volume.

VOLUME +



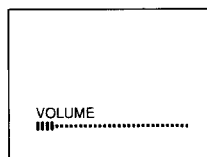
to increase volume



- VOLUME



to decrease volume



## To make the on-screen display disappear

Press DATA SCREEN. Press again to make it appear.

## When CHANNEL + or - is pressed

A larger numbered-channel or a smaller numbered-channel will be selected in numerical sequence. To add or erase channels, see page 50.

## To turn off the TV

Press POWER so that the POWER lamp goes off.

## To mute the sound

Press MUTING on the Remote Commander. The MUTING indicator appears on the screen.

To restore the sound, press MUTING again or VOLUME +.

## To listen with an earphone

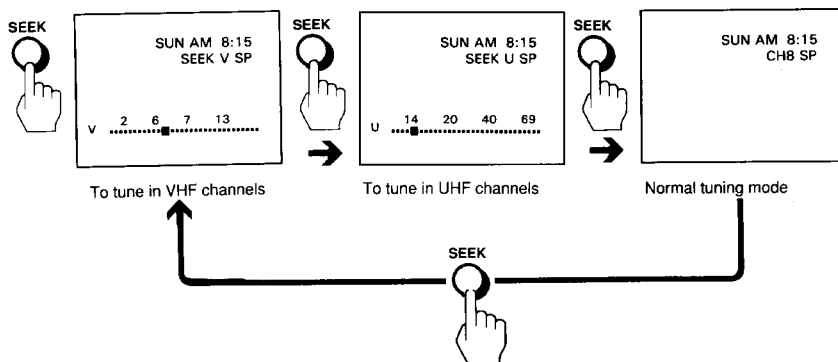
Connect the optional earphone with a miniplug to the EARPHONE jack. The sound from the speakers will be cut off. If you connect the optional headphones with a stereo miniplug, the sound will be heard through the right and left in monaural.

## Automatic Channel Tuning—Seek function

When SEEK is pressed, the unit enters automatic channel tuning mode. The unit automatically searches for receivable channels in sequence by pressing CHANNEL +/- . Using this mode allows easy and precise channel selection during long-distance driving.

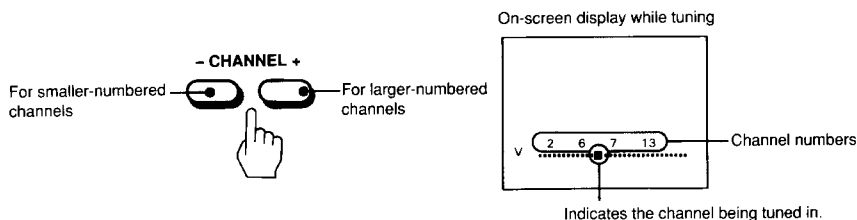
**1** Follow steps 1 and 2 in "Watching TV programs".

**2** Press SEEK.



**3** Press CHANNEL + or - to select the desired channel.

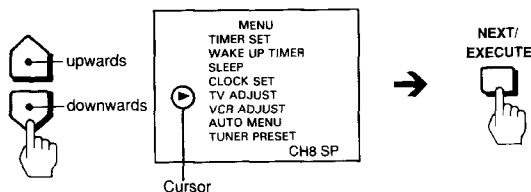
Each time CHANNEL + or - is pressed, the adjacent channel is automatically tuned in. Press the button repeatedly until the desired channel appears.



## Adjusting the Picture

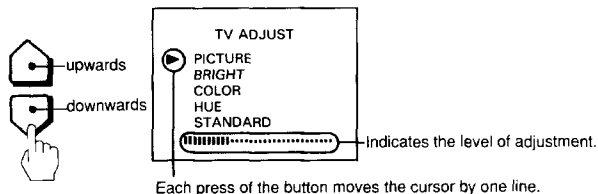
- 1 Push to open the **FUNCTION MENU** table.  
The MENU display will appear.

- 2 Move the cursor to **TV ADJUST** and press **NEXT/EXECUTE**.

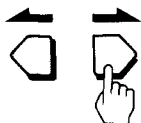


The TV ADJUST setting display will appear.

- 3 Move the cursor to the item to be adjusted.



- 4 Adjust the level of the selected item.



Each time the button is pressed, each item will be adjusted as shown below.

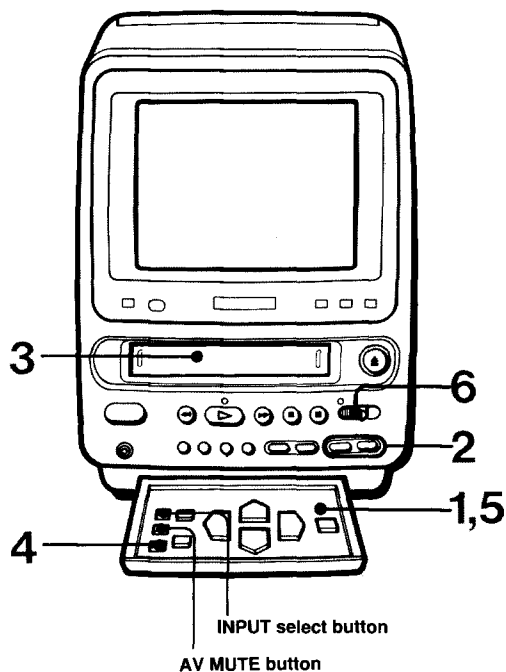
PICTURE	BRIGHT	COLOR	HUE
TV ADJUST ► PICTURE BRIGHT COLOR HUE STANDARD [Progress Bar]	TV ADJUST ► PICTURE BRIGHT COLOR HUE STANDARD [Progress Bar]	TV ADJUST PICTURE ► BRIGHT COLOR HUE STANDARD [Progress Bar]	TV ADJUST PICTURE BRIGHT COLOR ► HUE STANDARD [Progress Bar]
to decrease picture contrast    to increase picture contrast	for less brightness    for more brightness	for less color intensity    for more color intensity	to make skin tones purplish    to make skin tones greenish

- 5 Close the **FUNCTION MENU** table.  
Normal TV picture will be displayed on the screen.

### To reset all the items to the standard levels

Move the cursor to **STANDARD** on the TV ADJUST setting display and press **NEXT/EXECUTE**.

# Recording TV Programs



**1** Push to open the **FUNCTION MENU** table and press **INPUT** so that the TV program appears on the screen.

**2** Select the channel to be recorded.  
(See page 21.)

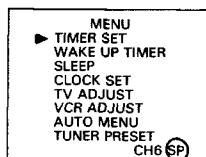


**3** Insert a cassette. (See page 13.)



**4** Select the recording mode, **SP** or **LP**.

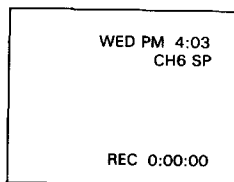
SP/LP



Each time the button is pressed, SP or LP will be selected alternately.

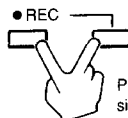
**5** Close the **FUNCTION MENU** table.

**6** Start recording by sliding the **● REC** switch.



The **● REC** lamp lights and recording will start.

Using the buttons on the Remote Commander



Press two buttons simultaneously.



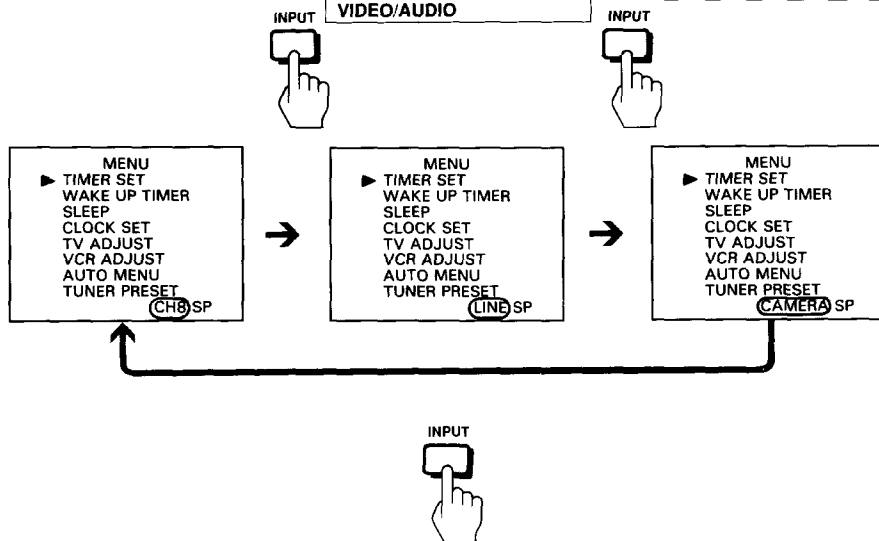
## How to use the INPUT select button

Press to select the input source to be watched or to be recorded. Each time this button is pressed, the input signal indicator on the screen will change.

To watch or record TV programs

To watch or record the input signal from equipment connected to LINE IN VIDEO/AUDIO

To watch or record the input signal from a video camera connected to CAMERA



### On the recorded sound level

Volume adjustment has no effect on the recorded sound level.

### A different channel can be selected during recording

Press **II** PAUSE to set the unit to recording pause mode, and then select another channel.

### To mute the picture and sound during recording

Press AV MUTE. Press again to restore them.

### To stop recording for a moment

Press **II**. To resume recording, press **II** again.

When recording pause mode lasts for more than approximately 7 minutes, recording will automatically stop.

### To stop recording

Press **■**.

### When the tape reaches its end during recording

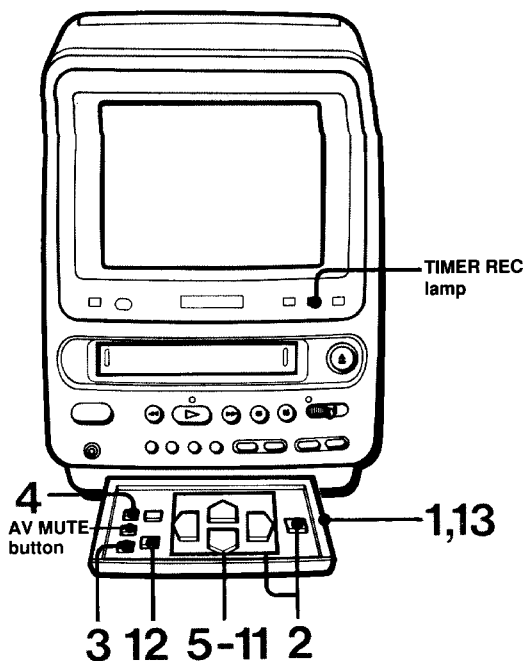
It will be automatically rewound to the beginning and stop. The power of the unit remains on.

### Notes

- When you use the supplied indoor antenna, confirm that the TV program is recorded clearly in a trial recording.
- You cannot watch another TV program while recording.

# Timer-Activated Recording

You can preset up to three TV programs within a seven-day period to be recorded automatically.



## Before Setting the Timer

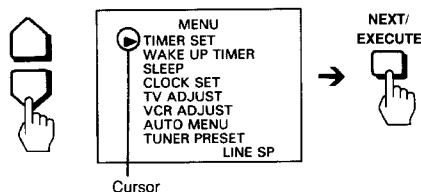
- Set the clock. (See page 48.)  
(If the clock is not set, the cursor will move to CLOCK SET when you select TIMER SET on the MENU display.)
- Insert a cassette. Make sure that the safety tab is slid in.

**Example: To preset a timer-recording of channel 8 from 9:00 p.m. to 10:50 p.m. on Friday.**

## 1 Push to open the FUNCTION MENU table.

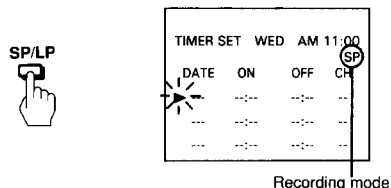
The power is turned on and the MENU display will appear.

## 2 Move the cursor to TIMER SET and press NEXT/EXECUTE.



## 3 Press SP/LP to select the recording mode.

(A different recording mode cannot be selected for each event.)

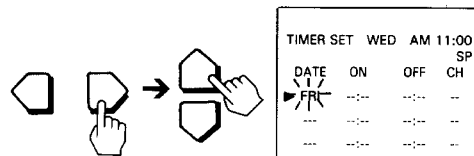


Recording mode

## 4 If a TV program is not displayed on the screen, press INPUT so that a TV program appears.



## 5 Set the day of the week.

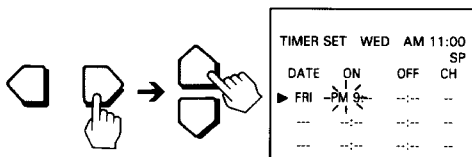


When you press once, the present day of the week appears. Press repeatedly until the desired day of the week appears.

**To record at the same time every day (Every day recording)**

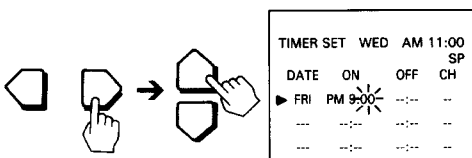
Press or until the "EVR (every day)" indicator appears.

## 6 Set the turn-on hour.

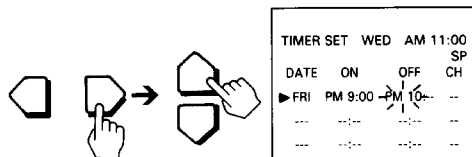


When you press once, the current time (hour) will appear. Press repeatedly until the desired hour appears.

## 7 Set the minute.

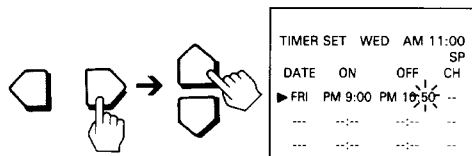


## 8 Set the turn-off hour.

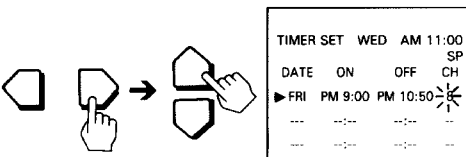


When you press once, the turn-on hour preset in step 6 will appear.

## 9 Set the minute.



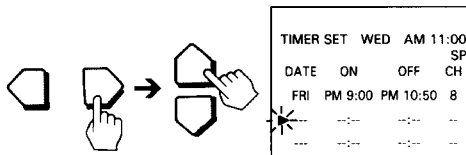
## 10 Select the channel to be recorded.



When you press once, the channel number being received will appear.

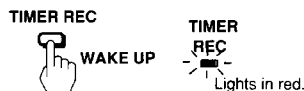
## 11 For setting more programs;

- Press so that the cursor blinks and then press to move the cursor to the next event to be preset.



- Repeat steps 5 to 10.

## 12 Press TIMER REC/WAKE UP so that the red TIMER REC lamp lights.



The unit is turned off and will enter timer-activated recording standby mode, during which the TIMER REC lamp lights.

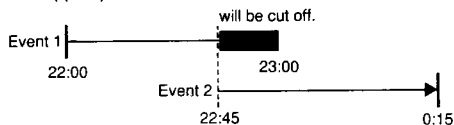
## 13 Close the FUNCTION MENU table.

At the preset turn-on time, the recording will start automatically and will stop at the preset turn-off time.

# Timer-Activated Recording

## When two timer settings overlap

If two timer settings are preset as in the following example, the recording of event 2 will start before the recording of event 1 is completed. Consequently, overlapped portion of event 1 will be cut off.



<b>To change a preset item while setting a timer</b>	Press  or  until the item to be changed blinks and change the item with  or .
<b>Buttons which are operable during timer recording standby mode</b>	No buttons other than TIMER REC/WAKE UP and AV MUTE are operable.
<b>To monitor the picture during recording</b>	Press AV MUTE.
<b>To stop an on-going timer recording</b>	Press TIMER REC/WAKE UP so that the TIMER REC lamp goes off. The recording will stop and the unit will be turned off.

## If you want to cancel the every day recording one time only

Press TIMER REC/WAKE UP to turn off the TIMER REC lamp.

## If the TAPE END indicator blinks on the screen when you press TIMER REC/WAKE UP

The tape is at its end. Rewind the tape or insert a new cassette tape.

## If the tape reaches its end during timer recording

Recording will stop and the unit will be turned off.

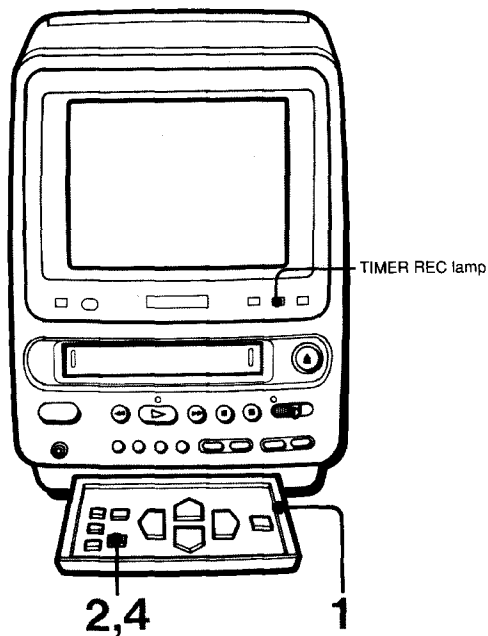
## When a power interruption has occurred

If the unit was in the timer standby mode, it will not be necessary to reset the clock and timer settings as long as the lithium battery is activated. If power was interrupted during a timer recording, the recording will have stopped but will have been resumed when electricity supply is restored.

## Notes

- The timer recording and wake up timer cannot be preset simultaneously.
- The TIMER REC/WAKE UP button functions to activate a timer recording or a wake up timer. Make sure that the red TIMER REC lamp lights when you want to activate a timer recording by pressing TIMER REC/WAKE UP. If a yellow WAKE UP lamp lights, press TIMER REC/WAKE UP to turn off the lamp and then press it again.

## Operating the Recorder After Setting the Timer



### 1 Push to open the FUNCTION MENU table.

The power will be turned on.

### 2 Press **TIMER REC/WAKE UP** so that the **TIMER REC** lamp goes off.



### 3 Operate the unit.

### 4 After using it, press **TIMER REC/WAKE UP** to turn on the red **TIMER REC** lamp.



The unit will be turned off, and will enter timer recording standby mode.

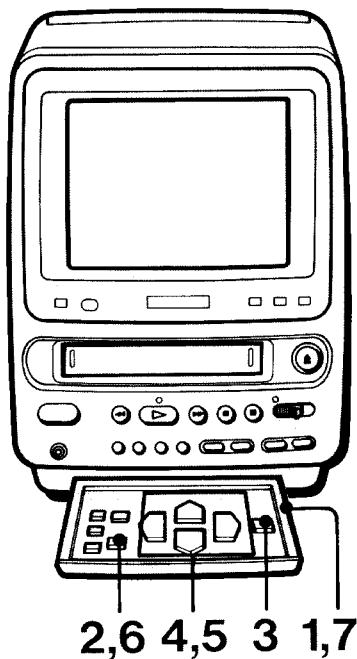
## Checking the Contents of Preset Timer Settings

**Press to open the FUNCTION MENU table.** (When the unit is in timer recording standby mode)  
The **TIMER REC** display showing the preset timer settings will appear on the screen.

TIMER REC	SUN	AM	11:00	
			SP	
DATE	ON	OFF	CH	
FRI	PM 9:00	PM 10:50	8	
SAT	PM 8:00	PM 8:50	6	
EVR	AM 8:15	AM 8:30	12	

**To turn off the **TIMER REC** display,** close the **FUNCTION MENU** table. The unit will be turned off.

## Changing the Timer Settings



- 1** Open the **FUNCTION MENU** table.  
The power will be turned on and the **TIMER REC** display will appear.

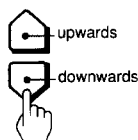
- 2** Press **TIMER REC/WAKE UP** so that the **TIMER REC** lamp goes off.



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



- 4** Press or to select the setting to be changed.



TIMER SET	SUN	AM 11:00	SP
DATE	ON	OFF	CH
FRI	PM 9:00	PM 10:50	8
SAT	PM 8:00	PM 8:50	6
EVR	AM 8:15	AM 8:30	12

Each press of the button moves the cursor by one line. Move it to the setting to be changed.

- 5** Change the setting.
  - 1 Press or until the item to be changed blinks.
  - 2 Change the setting with or .

- 6** Press **TIMER REC/WAKE UP** again so that the red **TIMER REC** lamp will lights.



Lights in red.

- 7** Close the **FUNCTION MENU** table.

## Cancelling the Timer Settings



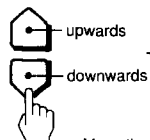
- 1 Open the FUNCTION MENU table.**  
The unit will be turned on and the **TIMER REC** display will appear.

- 2 Press **TIMER REC/WAKE UP** so that the **TIMER REC** lamp goes off.**



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

- 4 Press or to select the setting to be cancelled.**



TIMER SET					
	SUN	AM	11:00	SP	
DATE	ON	OFF		CH	
FRI	PM 9:00	PM 10:50	8		
SAT	PM 8:00	PM 8:50	6		
EVR	AM 8:15	AM 8:30	12		

Move the cursor to the setting to be cancelled.

- 5 Press **CLEAR**.**



- 6 If other events are preset for timer recording, press **TIMER REC/WAKE UP** to reactivate the timer.**

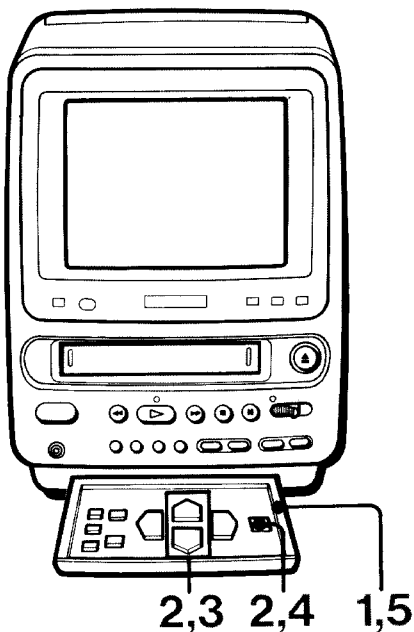


Lights in red.

- 7 Close the FUNCTION MENU table.**

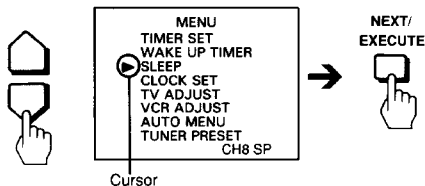
# Having the Unit Turned Off Automatically

You can set the unit to turn off automatically after a certain time, up to 5 hours, in steps of 30 minutes, while watching a TV program or video playback or while recording.

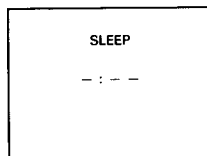


- 1 Open the FUNCTION MENU table.**  
The MENU display will appear.

- 2 Move the cursor to SLEEP and press NEXT/EXECUTE.**



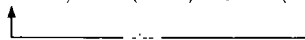
Sleep timer setting display



- 3 Press or to select the desired duration.**

Each time you press the button, the duration changes as follows:

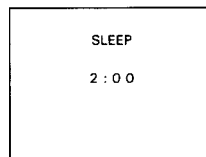
0:30 (30 minutes) → 1:00 (1 hour) ..... → 5:00 (5 hours)



for longer duration



for shorter duration



e.g. To have the unit turned off 2 hours later



# —Sleep Timer

## 4 Press NEXT/EXECUTE.

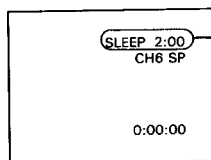
NEXT/  
EXECUTE



The on-screen display will change to MENU.

## 5 Close the FUNCTION MENU table.

The normal screen will be resumed.



Indicates remaining time  
for sleep timer.

After the preset duration (in this example, 2 hours),  
the unit will be turned off automatically.

### After setting the sleep timer

You can operate the unit as usual.

### To cancel the sleep timer setting

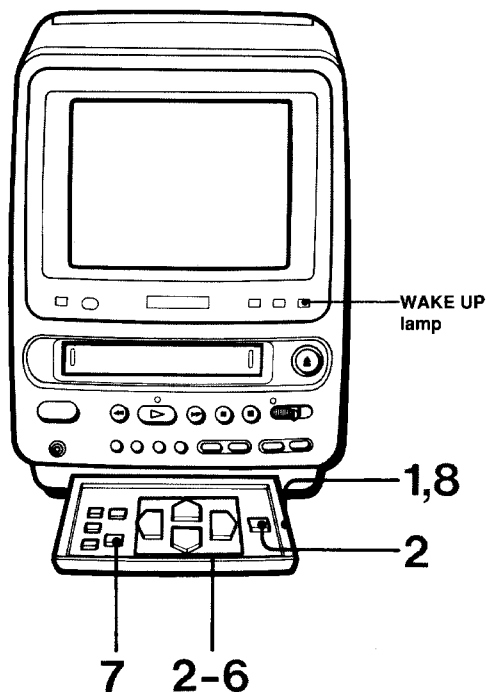
Turn on the SLEEP display and press CLEAR. The display  
will indicate "----", showing that the sleep timer setting is  
cancelled.

### Once the unit is turned off

The sleep timer setting will be cancelled.

# Having the Unit Turned On at the Preset Time

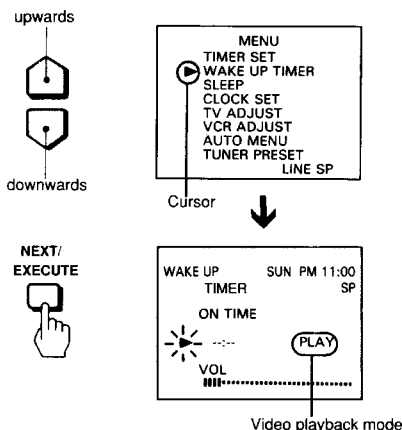
At the preset time, the unit will be turned on automatically and you can watch the desired TV program or play back a tape.



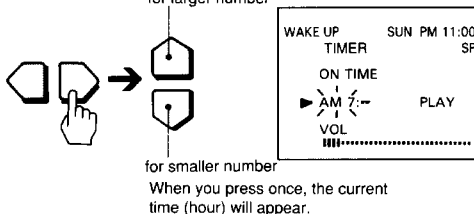
**Example: To watch a channel 8 broadcast from 7:30 a.m.**

**1 Open the FUNCTION MENU table.**  
The MENU display will appear.

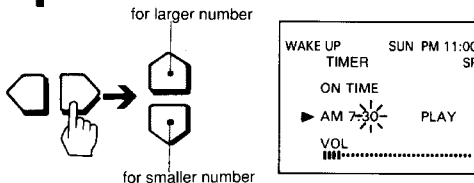
**2 Move the cursor to WAKE UP TIMER and press NEXT/EXECUTE.**  
The WAKE UP TIMER display will appear.



**3 Set the turn-on hour.**  
for larger number



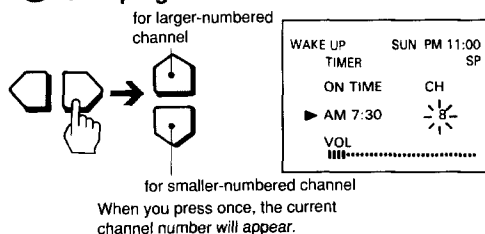
**4 Set the minute.**  
for larger number



**If you want to watch a video playback picture, proceed to step 6.**

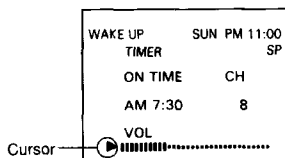
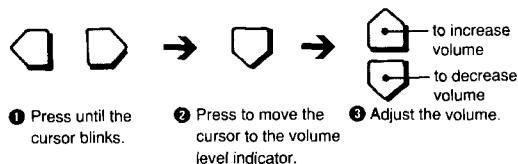
# -Wake Up Timer

## 5 Select the channel if you want to watch a TV program.



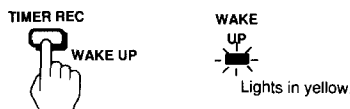
To preset for a video playback after setting a channel number, press CLEAR. In this case, the turn-on time will be erased. Repeat the procedure from step 3.

## 6 Preset the volume.



You can also preset the volume with VOLUME +/- .

## 7 Press TIMER REC/WAKE UP so that the yellow WAKE UP lamp lights.



You can press WAKE UP on the Commander instead of TIMER REC/WAKE UP.

## 8 Close the FUNCTION MENU table and turn off the unit.

At the preset time, the power will be turned on automatically and the TV program or video playback will start at the preset volume.

### To cancel the wake up timer setting

Press TIMER REC/WAKE UP so that the yellow WAKE UP lamp goes off.

### To have a video playback started by the wake up timer

Insert the cassette and locate the desired portion.

### If the tape reaches its end during playback

The tape will be rewound to the beginning and will stop. Then the screen changes to a TV program.

### After the unit has been turned on by the timer

If no button on the unit or the Commander is pressed, the unit will be turned off one hour later.

### When the TV program or the video playback started by the timer has ended

The wake up timer setting will be kept in memory. If you press TIMER REC/WAKE UP so that the yellow WAKE UP lamp lights, the wake up timer can be activated on any day. In this case, however, be sure that the yellow lamp is illuminated, since it may not light if the unit is in timer recording standby mode. Press TIMER REC/WAKE UP again to turn on the yellow lamp.

### When a power interruption has occurred

If the power is resupplied before the preset time, the wake up timer will be executed.

### Notes

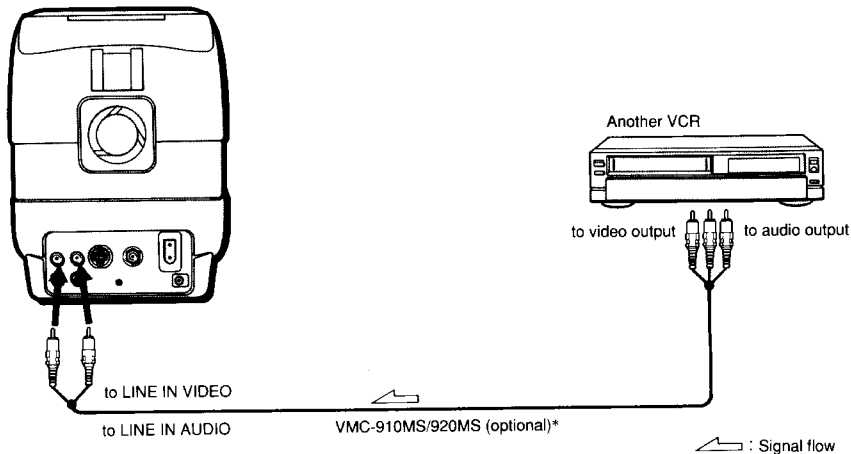
- The wake up timer and timer recording cannot be preset simultaneously.
- If you watch a TV program or a video playback after setting the wake up timer, the volume setting will be the preset level.

# Making a Copy of the Tape

## Editing a Home Movie Tape from Another VCR to This Unit

Example: Playing back with the VHS format VCR and recording with this unit

EV-DT2



\* When the audio output of another VCR is monaural, use the optional VMC-710M/720M connecting cord.

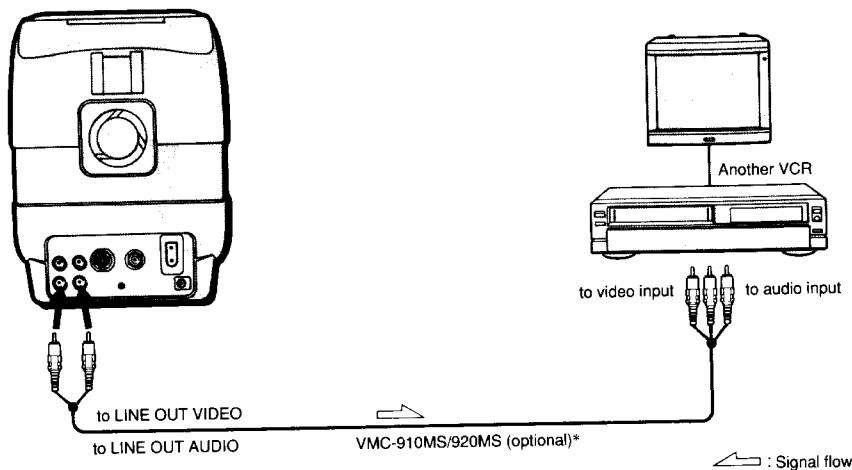
**1** Press INPUT on this unit so that the LINE indicator appears on the screen.

**2** Start playback with another VCR and start recording with this unit.

## Editing a Home Movie Tape from This Unit to Another VCR

Example: Playing back with this unit and recording with the VHS format VCR

EV-DT2



\* When the audio input of another VCR is monaural, use the optional VMC-710M/720M connecting cord.

- 1** Set the input selector on another VCR to line input.
- 2** Start playback with this unit and start recording with another VCR.

### Notes

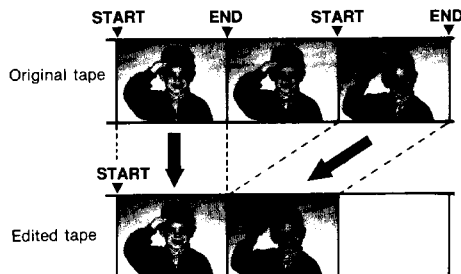
- Do not connect the same VCR to both the LINE IN and LINE OUT jacks of this unit. This may cause hum noise.
- Avoid repeated editing with the same tape, as the picture and sound quality will be impaired noticeably on newly edited tapes.

Refer to the instruction manual provided with another VCR.

# Gathering Desired Scenes from the Original Tape

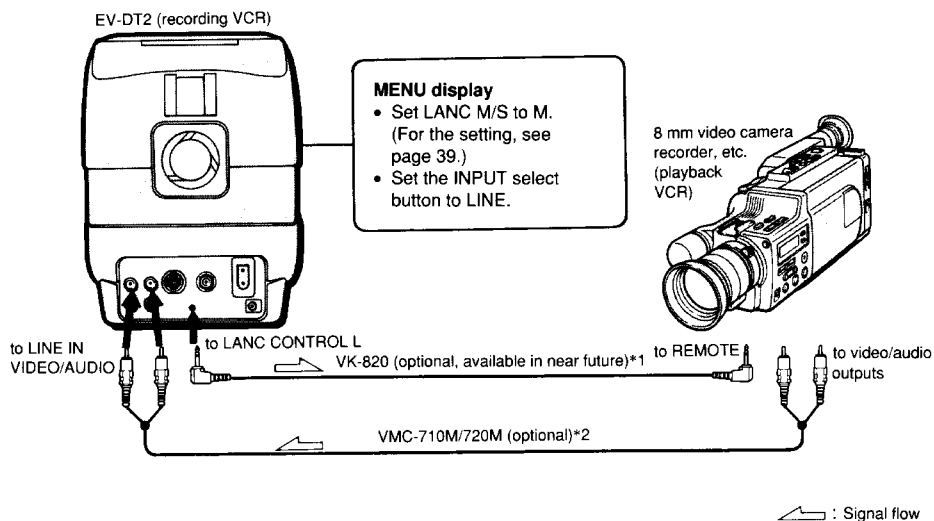
## What Is Assemble Editing?

Only the desired portions of an original tape can be edited onto another tape one portion by one. Decide the start point (START) and end point (END) of editing on the playback VCR. Decide the start point of editing on the recording VCR. If another VCR is equipped with the CONTROL L (or REMOTE) jack, the two VCRs can be operated simultaneously using the SYNCHRO EDIT button on this VCR (Synchronized editing). See page 41 for editing with a VCR not equipped with the CONTROL L (or REMOTE) jack.



## Synchronized Editing from/onto a VCR with the LANC CONTROL L (or REMOTE) Jack

### Playing back with another VCR and recording with this VCR



\*1 If the REMOTE (or LANC CONTROL L) connector of another VCR is a 5-pin type, use the optional VK-810 connecting cord.

\*2 If the audio output of another VCR is stereo, use the optional VMC-910MS/920MS.

Refer to the instruction manual provided with the connected VCR.

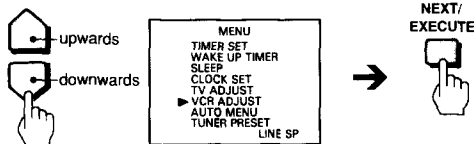
- 1** Insert cassettes; a cassette for editing into this unit (recording VCR), and a recorded cassette into another VCR (playback VCR).
- 2** Locate the start point to be edited on the playback VCR and set it to playback pause mode.
- 3** Locate the point where you want to start editing on this unit and set it to recording pause mode.
- 4** Press **SYNCHRO EDIT** on this unit.  
Playback starts on another VCR and recording starts on this unit.
- 5** Press **SYNCHRO EDIT** at the end point to be edited.  
This unit enters recording pause mode and another VCR enters playback pause mode.

To edit the next scene	Repeat steps 2 to 5.
When editing is completed	Set both VCRs to stop mode.
To stop editing	Press <b>SYNCHRO EDIT</b> or ■ (stop) on this unit.

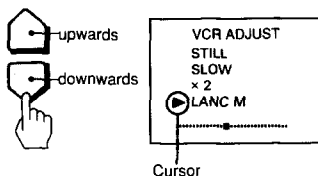
## Setting the LANC mode

Be sure to set LANC M/S to M, if you edit a tape by connecting another VCR to LANC CONTROL L on this unit.

- 1** Select **VCR ADJUST** on the MENU display and press **NEXT/EXECUTE**.



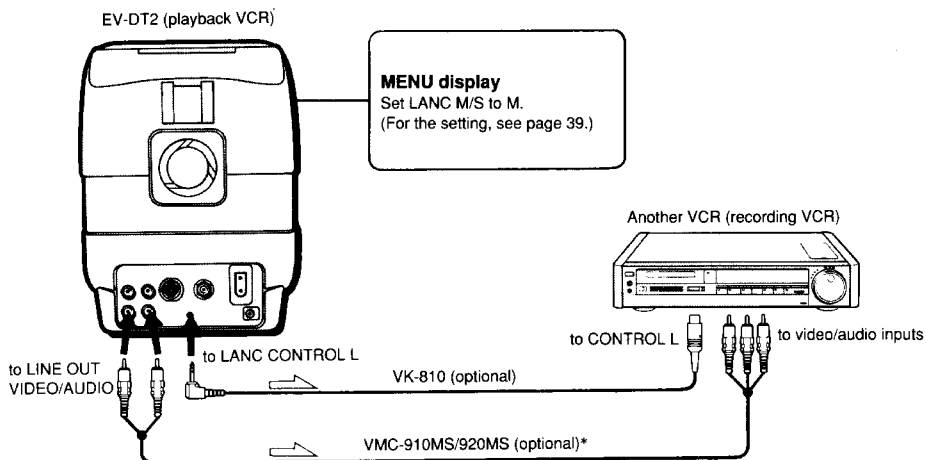
- 2** Press **▲** or **▼** to move the cursor to **LANC**.



- 3** Press **◀** or **▶** so that the **LANC M** appears.  
Each time the button is pressed, M or S will appear alternately.

## Synchronized Editing from/onto a VCR with the LANC CONTROL L (REMOTE) Jack

Playing back with this unit and recording with another VCR



\* When the audio input of another VCR is monaural, use the optional VMC-710M/720M connecting cord.

Signal flow

Refer to the instruction manual provided with the connected VCR.

- 1** Insert cassettes; a recorded cassette into this unit, and a cassette for editing into another VCR.
- 2** Locate the point of the tape where you want to start editing on the recording VCR and set it to recording pause mode.
- 3** Locate the end point to be edited on this unit and set it to playback pause mode.
- 4** Press COUNTER RESET on this unit.
- 5** Rewind the tape on this unit to the starting point to be edited and set the unit to playback pause mode.
- 6** Press SYNCHRO EDIT on this unit.  
Playback starts on this unit and recording starts on another VCR. When the counter reading on this unit reaches zero, this unit automatically enters playback pause mode and another VCR enters recording pause mode.

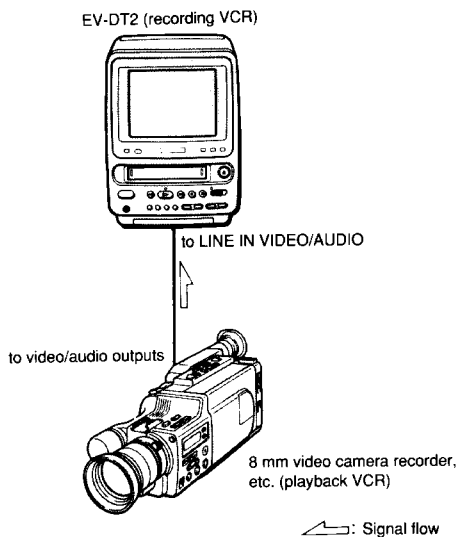
To edit the next scene	Repeat steps 2 to 6.
When editing is completed	Set both VCRs to stop mode.
To stop editing	Press SYNCHRO EDIT or ■ (stop) on this unit.



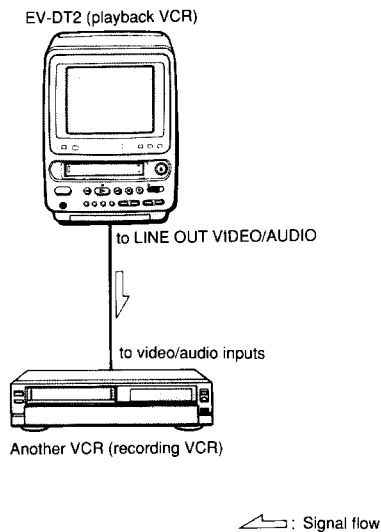
# Manual Editing from/onto a VCR Not Equipped with the LANC CONTROL L (or REMOTE) Jack

For details on connections, see pages 36 and 37.

## Using this unit for recording



## Using this unit for playback



### Recording VCR

- 1** Insert a cassette for editing.
- 2** Set the input selector to LINE.
- 3** Locate the point where editing should start and set to recording pause mode.
- 5** Release the recording pause mode.
- 6** Set to recording pause mode at the end point to be edited while watching the playback picture.
- 8** Repeat steps 3 to 7 for other scenes.
- 9** Set both VCRs to stop mode.

### Playback VCR

- 1** Insert a recorded cassette.
- 4** Locate the starting point to be edited and set to playback pause mode.
- 5** Release the playback pause mode.
- 7** Set to playback pause mode.

# Inserting New Scenes onto the Tape—Insert Editing

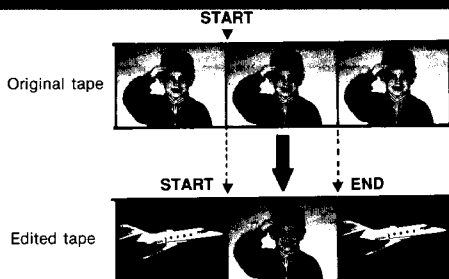
## What Is Insert Editing?

A prerecorded portion of a tape can be replaced with a new scene.

Decide the start point (START) and end point (END) of editing on the recording VCR. On the playback VCR, decide the start point (START).

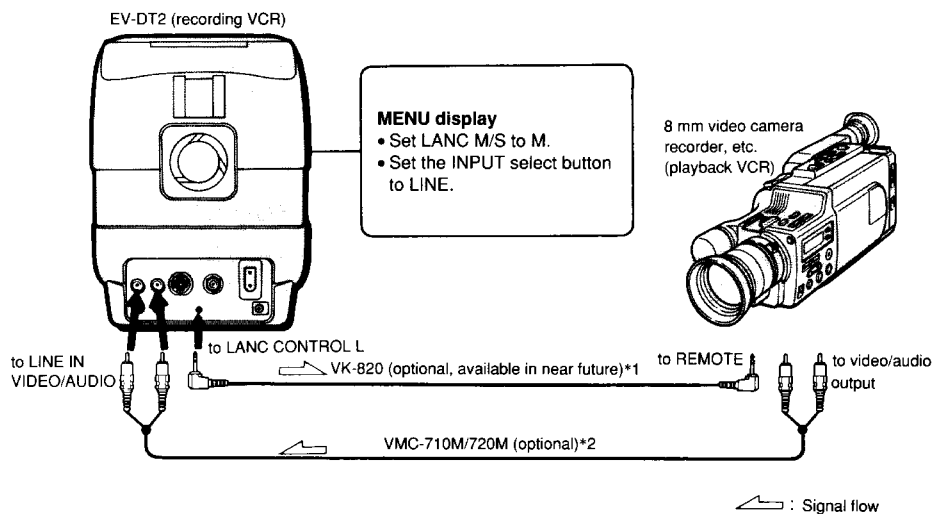
If another VCR is equipped with the CONTROL L (or REMOTE) jack, the two VCRs can be operated simultaneously using the SYNCHRO EDIT button on this unit (Synchronized editing).

See page 44 for editing with a VCR not equipped with the CONTROL L (or REMOTE) jack.



## Synchronized Editing from/onto a VCR with the LANC CONTROL L (or REMOTE) Jack

### Playing back with another VCR and recording with this unit



\*1 If the REMOTE (or LANC CONTROL L) connector of another VCR is a 5-pin type, use the optional VK-810 connecting cord.

\*2 If the audio output of another VCR is stereo, use the optional VMC-910MS/920MS connecting cord.

Refer to the instruction manual provided with the connected VCR.

- 1** Insert cassettes; a cassette for editing into this unit (recording VCR), and an insert source cassette into another VCR (playback VCR).
- 2** Locate the start point to be inserted on the playback VCR and set it to playback pause mode.
- 3** Locate the point where the insertion should stop (end point) on this unit and set it to playback pause mode.
- 4** Press COUNTER RESET on this unit.
- 5** Rewind the tape on this unit to the point where the insertion should start (start point) and set it to recording pause mode.
- 6** Press SYNCHRO EDIT on this VCR.  
Playback starts on another VCR and recoring starts on this unit.  
When the conter display reaches zero point, indicating that the insertion is completed, this unit will enter recording pause mode and another VCR will enter playback pause mode.

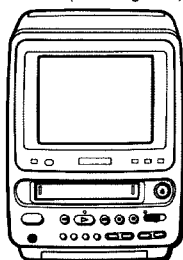
When the insert editing is completed	Set both units to stop mode.
To stop insert editing	Press SYNCHRO EDIT or ■ (stop) on this VCR.

## Inserting New Scenes onto the Tape—Insert Editing

### Manual Editing from/onto a VCR Not Equipped with the LANC CONTROL L (or REMOTE) Jack

For details on connection, see pages 36 and 37.

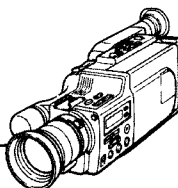
EV-DT2(recording VCR)



to LINE IN  
VIDEO/AUDIO

to video/audio outputs

8 mm video camera recorder,  
etc. (playback VCR)



↗ : Signal flow

Recording VCR (EV-DT2)	Playback VCR
<b>1</b> Insert a cassette for editing.	<b>1</b> Insert an insert source cassette.
<b>2</b> Set INPUT to LINE.	
	<b>3</b> Locate the start point to be inserted and set to playback pause mode.
<b>4</b> Play back the tape to locate the point where the insertion should stop and press COUNTER RESET.	
<b>5</b> Rewind the tape to the point where the insertion should start and set to recording pause mode.	
<b>6</b> Press <b>II</b> to release the recording pause mode.	<b>6</b> Release the playback pause mode.
<b>7</b> At the counter zero point, set to recording pause mode.	<b>7</b> Set to playback pause mode.
<b>8</b> Set both units to stop mode.	

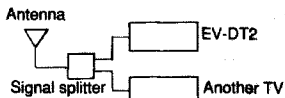
# Preparations

In order to watch or record TV programs, you have to make certain preparations before you operate. The instructions for these preparations are explained in the following pages.

## Connecting an External Antenna

This unit is supplied with an indoor telescopic antenna. If, however, satisfactory reception of the TV signal cannot be obtained with it, you will have to connect the unit to an external antenna.

**To connect a single antenna to both this unit and another TV** pages 46, 47  
Disconnect the TV antenna cable from your TV receiver and connect it to both EV-DT2 and the TV using the supplied signal splitter.



**To connect an antenna only to the EV-DT2**

pages 46, 47

## Setting the Clock

pages 48, 49

For timer-activated recording, you will have to set the clock correctly.

## Presetting Channels

pages 50–52

You can preset your unit so that only the desired channels will appear in sequence when you press CHANNEL +/-.

# Connecting an Antenna

## Before you begin...

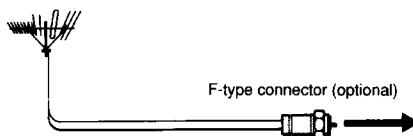
- Turn off the power of the unit before making connections.
- Do not connect the AC power cord to a wall outlet until all of the connections are completed.
- Make connections firmly. Loose connections may cause a distorted picture.

## Antenna Connecting Examples

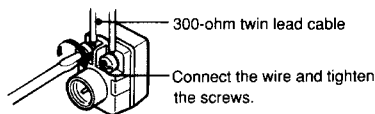
The connection varies depending on the type of your antenna. Some typical connecting examples are shown here. If your antenna end is a 75-ohm coaxial type, attach the optional F-type connector, while if your antenna end is a 300-ohm twin lead type, attach the optional antenna connector. Provided that your antenna does not match the given examples, consult your Sony dealer or a qualified service engineer.

### Example 1: To connect a combination VHF/UHF antenna

Most combination antennas are equipped with a U/V band separator (signal splitter). Remove this separator from the antenna cable.



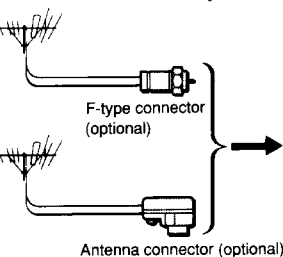
### Attaching an external antenna connector (optional)



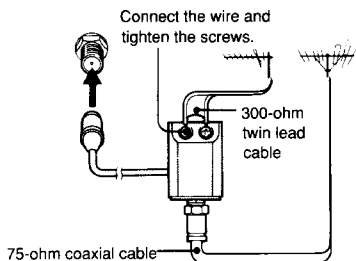
### Example 2: To connect the VHF antenna only

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

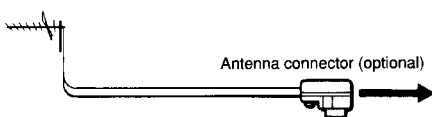
If the antenna cable is a 300-ohm twin lead (flat) type



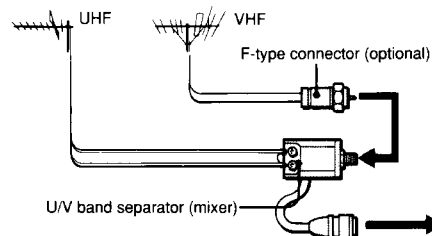
### Attaching an EAC-66 U/V band separator(mixer) (optional)



### Example 3: To connect the UHF antenna only

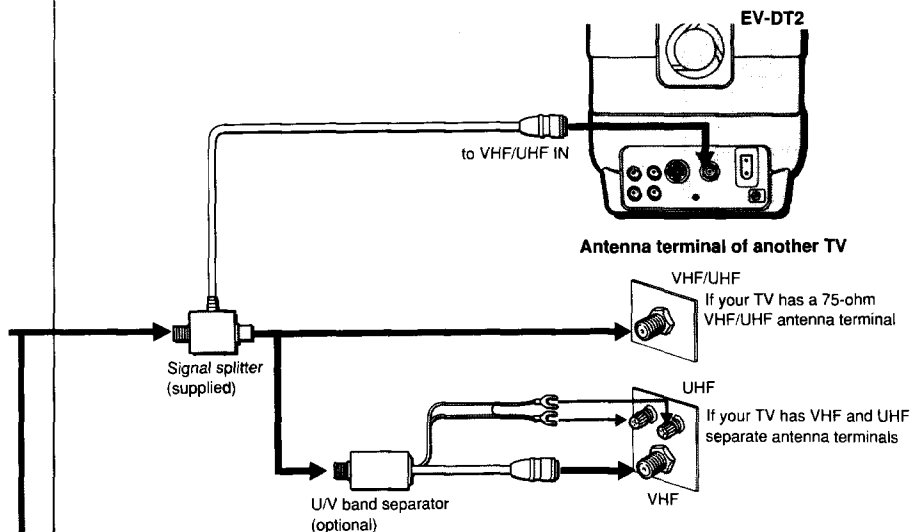


### Example 4: To connect both the VHF and UHF antennas

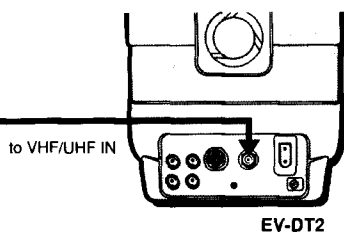


## Connecting a Single Antenna to Both the EV-DT2 and Another TV

Connect the antenna to the supplied signal splitter. When you want to move the EV-DT2, just disconnect the splitter from the VHF/UHF IN connector on this unit.



## Connecting an Antenna Only to the EV-DT2

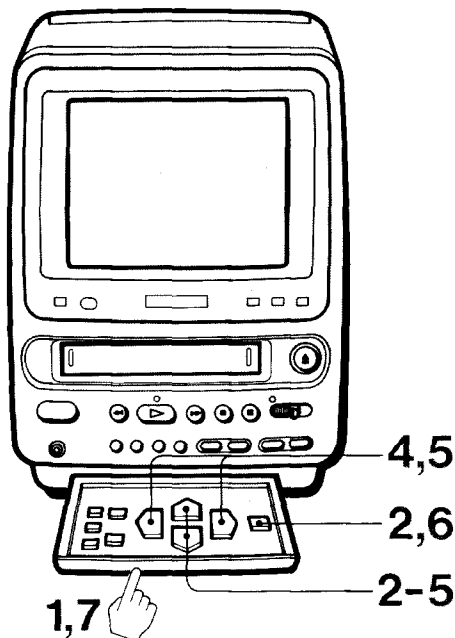


### When you use the unit in a car

Use the optional car antenna such as Sony VCA-6 and VCA-8. For details, refer to the instructions provided with the antennas.

# Setting the Clock

Be sure that the power source is connected to the unit.



## Use of the cursor direction buttons

### To select the item to be set:

Use or . Each time you press the button, blinking item changes.

### To set the hour, minute, etc.:

Use or ; for larger numbers and for smaller numbers. You can set the blinking item with these buttons.

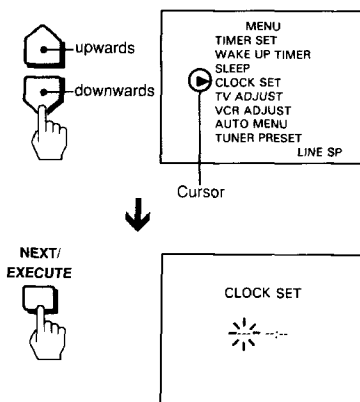
**Example: To set the clock to 3:50 p.m. on Wednesday**

## 1 Press to open the FUNCTION MENU table.

The MENU display will appear.

## 2 Move the cursor to CLOCK SET and press NEXT/EXECUTE.

The CLOCK SET setting display will appear.

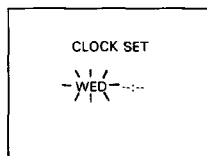


## 3 Set the day of the week.

for the next day



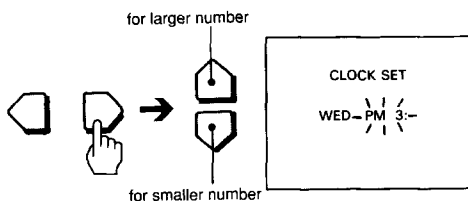
for the previous day





#### 4 Set the hour.

AM12:00 = midnight  
PM12:00 = noon



#### To readjust the clock during setting

Press or until the item to be changed blinks. Reset the item with or .

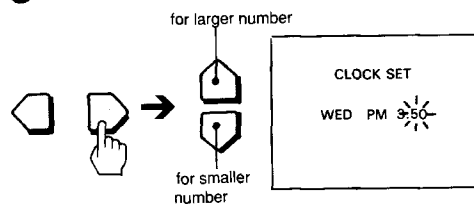
#### To readjust the clock after the setting is completed

Repeat the procedure from step 1.

#### When the power is disconnected

The clock continues to work as long as the lithium battery is activated. The lithium battery will last for approximately six months.

#### 5 Set the minute.



#### 6 With the announced time signal, press NEXT/EXECUTE.



The clock now starts operating and the MENU display will be resumed.

#### 7 Close the FUNCTION MENU table.

# Presetting TV Channels

## Adding or Erasing Channels

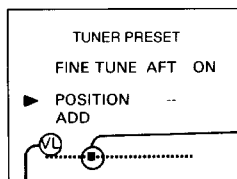
This unit is capable of receiving the following channels:

- VHF: 2 – 13
- UHF: 14 – 69
- Cable TV: 1(A-8), 14 – 36 (A to W), 66 – 94 (W+30 to W+58), 98 (A-2), 99 (A-1), 100 – 125 (W+59 to W+84)

This unit is preset at the factory to receive certain channels.

You can preset new channels or erase inactive channels in your area so that only the desired channels appear in sequence when you press CHANNEL +/-.

### About the TUNER PRESET display



**Tuning indicator**  
Indicates the approximate location of the channel scanned in the band.

#### Band indicator

The VL, VH or U indicator lights in sequence. For the channel coverage in each band, refer to the "channel allocation chart" on page 52.



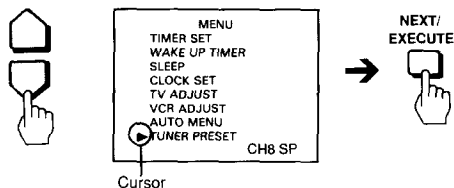
### 1 Push to open the FUNCTION MENU table.

The MENU display will appear.

### 2 Press INPUT so that the channel number appears.

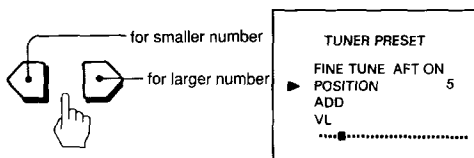


### 3 Move the cursor to TUNER PRESET and press NEXT/EXECUTE.

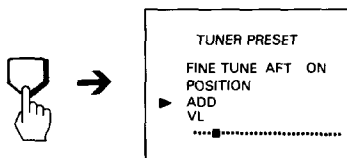


The TUNER PRESET display will appear.

### 4 Press or to select the channel to be added or erased.



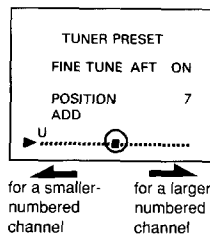
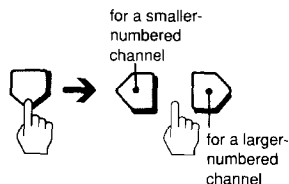
### 5 Press to move the cursor to ADD.



### 6 To add channels

Press to move the cursor to the tuning indicator.

Press or until the desired channel is tuned in.



Each time you press the button, the adjacent channel is automatically tuned in. Press until the desired channel appears.

### To erase channels

Press or to make ERASE appear.

Each time either button is pressed, ADD or ERASE appears alternately.

### 7 Press NEXT/EXECUTE.

The screen changes to the MENU display.

When you press CHANNEL +/-, the added channel will appear in proper numerical sequence and the erased channel will be skipped.

### To preset or erase other channels

Move the cursor to POSITION with or and repeat steps 4 to 6 before proceeding step 7.

### Notes

- Check that FINE TUNE AFT ON is shown on the TUNER PRESET display. If FINE TUNE AFT OFF appears, you cannot add or erase channels.
- Channel presetting cannot be activated in automatic channel tuning mode (Seek function).

# Presetting TV Channels

## Manually fine-tuning a weak station

Normally the AFT (Auto Fine Tuning) function works to allow automatic fine-tuning of the received channels. (FINE TUNE AFT ON should be shown on the TUNER PRESET display.) If the picture of a particular channel is not acceptable, fine-tune the channel manually as follows:

**1** Move the cursor to **FINE TUNE AFT ON** with  $\triangleleft$ .

**2** Press  $\triangleleft$  or  $\triangleright$  to light **AFT OFF**.

**3** Move the cursor to the tuning indicator with  $\triangleleft$  or  $\triangleright$ .

**4** Fine-tune to obtain the best possible picture with  $\triangleleft$  or  $\triangleright$ .

**5** Close the **FUNCTION MENU** table.

Once the channel is fine-tuned, the AFT function will be deactivated. To reactivate AFT on that channel, light the AFT ON and preset it again.

## Cable TV Channel Chart\*

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

Channel on EV-DT2	1	95	96	97	98	99	14	15	16	17	18	19	20	21	22	23	24
Corresponding CATV channel	A-8	-	-	-	A-2	A-1	A	B	C	D	E	F	G	H	I	J	K

25	26	27	28	29	30	31	32	33	34	35	36
L	M	N	O	P	Q	R	S	T	U	V	W

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

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

### Note

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

## Channel Allocation Chart

Frequency (MHz)	5	100	150	200	250	300	400	500	600	700	800
VHF/UHF channels	VHF 2-6	98, 99, 14	VHF 7-13					UHF 14-69			
CATV channels	1	15-22		23-26				66-94	100-125		
Band Indicator	L		H					U			

# Notes on Moisture Condensation And Video Head Cleaning

## Moisture inside the Unit

If the unit is brought directly from a cold to a warm place, or if it is kept in a humid room, moisture may condense on the assembly inside the recorder section. In this condition, the tape may adhere to the head drum and be damaged or the unit may not operate correctly.

In this case, eject the cassette if present, turn off the unit and let the unit sit for about an hour.

## Moisture on the Tape

If the cassette is brought from a cold to a warm place, moisture may also condense on the surface on the tape. In this case, eject the cassette and let it sit for about an hour.

## Video Head Cleaning




To ensure clear picture, clean the video heads periodically with the optional V8-25CLH cleaning cassette. When playback pictures are noisy or hardly visible although TV programs are clearly seen, the video heads may be contaminated. In this case, clean the video heads with the cleaning cassette.

### Pictures when the video heads are contaminated



Slight contamination  Critical contamination

### How to use the cleaning cassette

- 1 Insert the cleaning cassette.
- 2 Press .
- 3 Press  to stop playback after about 15 seconds.
- 4 Eject the cleaning cassette.  
Do not press .
- 5 After cleaning, check if the picture is clear by recording or playing back with an ordinary video cassette tape.
- 6 If the picture is still noisy, repeat steps 1 to 4.  
(Do not repeat cleaning more than five times.)

- The V8-25CLH cleaning cassette is available at Sony shops or at the shop where you purchased your TV recorder.

# Specifications

## TV section

Television system	American TV standards
Channel coverage	VHF: 2-13 UHF: 14-69 Cable TV channels: A-8, A-2 to W, W+30 to W+84
Picture tube	Trinitron 10.4 × 7.8 cm (4 1/8 × 3 1/8 inches) (w/h) 12.8 cm (5 1/8 inches) measured diagonally

## VCR section

Video recording system	Rotary two-head helical scanning FM system
Audio recording system	Rotary head, FM system
Video signal	EIA standard, NTSC color
Usable cassettes	8 mm video format cassettes
Tape speed	SP: Approx. 1.43 cm/sec. LP: Approx. 0.72 cm/sec.
Recording/playback time	SP: 2 hours LP: 4 hours (with Sony P6-120 cassette)
Fast-forward/rewind time	Approx. 4 min. (with Sony P6-120 cassette)

## Inputs/outputs

Antenna input	75-ohm F-type connector for VHF/UHF
Video input	LINE IN VIDEO: phono jack, 1 Vp-p, 75 ohms, unbalanced, sync negative
Video output	LINE OUT VIDEO: phono jack, 1 Vp-p, 75 ohms, unbalanced, sync negative
Audio input	LINE IN AUDIO: phono jack, -7.5 dBs (0 dBs = 0.775 Vrms), input impedance more than 47 kilohms
Audio output	LINE OUT AUDIO: phono jack, -7.5 dBs (250 mV) at load impedance 47 kilohms, output impedance less than 10 kilohms
LANC CONTROL L connector	Stereo mini-minijack
CAMERA connector	12-pin
EARPHONE jack	Minijack
Speakers	8 ohms, 700 mW

## Timer section

Clock	Quartz lock
Time indication	12-hour cycle
Timer setting	Only for recording, 3 events/week
Sleep timer	5 hours max.

## General

Power requirements	100-120 V AC, 50/60 Hz (In Canada, only operation on 120 V AC is certified by the CSA.) 12/24 V DC
Power consumption	39 W (AC/DC operation)
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions	Approx. 162 × 227 × 313 mm (w/h/d) (6 1/2 × 9 × 12 3/8 inches)
Weight	Approx. 5.4 kg (11 lb 14 oz)
Accessories supplied	See "Supplied accessories" on page 6.

## Remote Commander RMT-442

Remote control system	Infrared control
Command mode	VTR-2
Power requirements	3 V DC Two size AA (R6) batteries
Dimensions	Approx. 55 × 20 × 175 mm (w/h/d) (2 1/4 × 7/8 × 7 inches)
Weight	Approx. 120 g (4 oz) incl. batteries

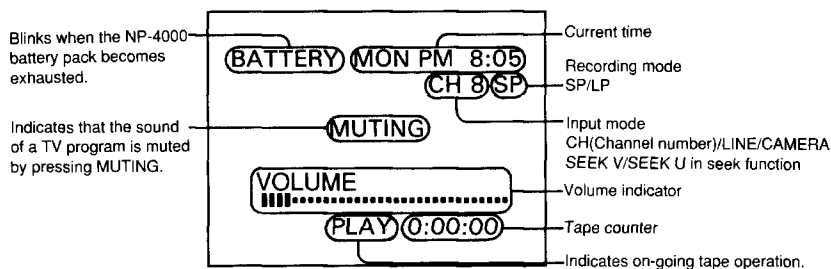
## Optional accessories

Carring bag	LCS-DT1
Monitor hood	GM-55
Car antenna*	VCA-6, VCA-8
Car mounting kit	GMV-DT1
Antenna connector	EAC-35A
Car connecting pack	CPA-2

\* Contact your dealer if these car antennas are attachable to your car.

Design and specifications are subject to change without notice.

## On-screen Display



## Connecting Other Sony Products

### Editing with the video editing controller

By connecting a video editing controller such as the RM-E100V, editing of the assigned scenes will be carried out automatically in assigned sequence.

For details, refer to the instruction manual provided with the video editing controller.

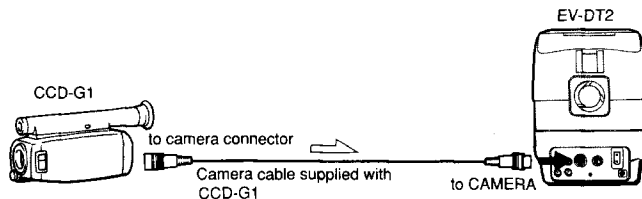
- Be sure to set LANC M/S on the EV-DT2 to S when editing with the video editing controller.

### Recording pictures with a video camera

If you connect a video camera such as the Sony CCD-G1 to the CAMERA connector, you can record pictures easily and watch the playback pictures immediately.

Press INPUT to make the CAMERA indicator appear on the TV screen. (See page 25.)

- Recording in SP mode is recommended for camera recording.
- If howling occurs during recording, connect an earphone to the EARPHONE jack of the EV-DT2.



# Troubleshooting Guide

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

Symptom		Possible causes and corrections
<b>Power</b>	The unit does not turn on.	<ul style="list-style-type: none"> <li>The power cord is disconnected.</li> <li>The unit is in timer recording standby mode. Press <b>TIMER REC/WAKE UP</b> so that the <b>TIMER REC</b> lamp goes off.</li> </ul>
<b>Clock</b>	The clock blinks showing "SUN AM0:00".	The lithium battery is exhausted. Replace it with a CR2032. If necessary, reset the clock and timer settings.
<b>TV reception</b>	Poor or no picture, good sound	<ul style="list-style-type: none"> <li>Adjust <b>PICTURE</b> on the TV <b>ADJUST</b> setting display. (page 23)</li> <li>Adjust <b>BRIGHT</b> on the TV <b>ADJUST</b> setting display. (page 23)</li> <li>Check the antenna connection.</li> </ul>
	Good picture, no sound	<ul style="list-style-type: none"> <li>Press <b>VOLUME +</b>.</li> <li>Press <b>MUTING</b> on the Commander.</li> </ul>
	No color	Adjust <b>COLOR</b> on the TV <b>ADJUST</b> setting display. (page 23)
	Snow and noise only	Check the antenna connection.
	Dotted lines or stripes	This is often caused by local interference. (e.g. cars, neon signs, hair dryers etc.) Adjust antenna for minimum interference.
	Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. A highly directional antenna may improve the picture.
<b>Recording and Playback</b>	The playback picture is not clear.	<ul style="list-style-type: none"> <li>The video heads may be contaminated. Clean the heads using the Sony V8-25CLH cleaning cassette (optional). (page 53)</li> <li>The video heads may be damaged.</li> </ul>
	Recording cannot be made.	The safety tab on the cassette is slid out.
	The pictures being recorded cannot be monitored on the screen.	Press <b>AV MUTE</b> .
	Timer-activated recording was not made correctly.	<ul style="list-style-type: none"> <li>The clock is not set correctly.</li> <li>The tape reaches its end.</li> <li>The red <b>TIMER REC</b> lamp was not lit.</li> </ul>
	The <b>TIMER REC</b> lamp will not light when <b>TIMER REC/WAKE UP</b> is pressed.	The <b>WAKE UP</b> timer is in standby mode. (The yellow <b>WAKE UP</b> lamp lights.) (page 35)
	The cassette is ejected when <b>TIMER REC/WAKE UP</b> is pressed.	The safety tab of the inserted cassette is slid out.
<b>Other</b>	The unit will not operate if any button is pressed.	Press <b>RESET</b> . (page 7)