

# *Video Cassette Recorder*

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Operating Instructions



Hi-Fi

*SLV-X815ME*  
*SLV-X815PS*  
*SLV-X815SG*

## WARNING

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

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

## Precautions

### Safety

- This VCR operates on 110 – 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

### Installing

- Allow adequate air circulation to prevent internal heat buildup.
- 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.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the VCR and cause damage to the video head and tape. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

## Caution

Television programmes, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or programme owner.

## Compatible colour systems

This VCR is designed to record and play back using the PAL (B/G and D/K), MESECAM (B/G and D/K) and NTSC colour systems. Recording of video sources based on other colour systems cannot be guaranteed.

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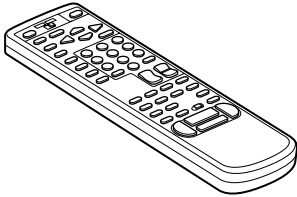
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# Step 1

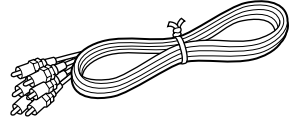
## Unpacking

Check that you have received the following items with the VCR:

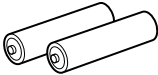
- Remote commander



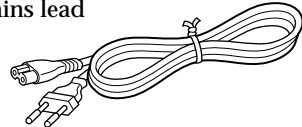
- Audio/video cable (3-phono to 3-phono)



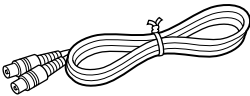
- R6 (Size AA) batteries



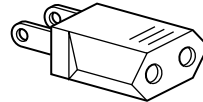
- Mains lead



- Aerial cable



- Plug adaptor (SLV-X815ME/X815SG)



## Checking your model name

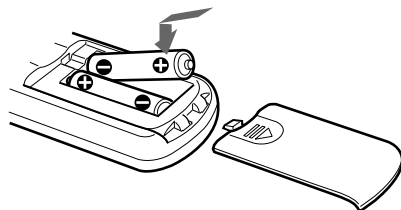
The instructions in this manual are for the 3 models : SLV-X815ME, X815PS and X815SG. Check your model number by looking at the rear panel of your VCR. The SLV-X815ME is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, "SLV-X815ME."

## Step 2

# Setting up the remote commander

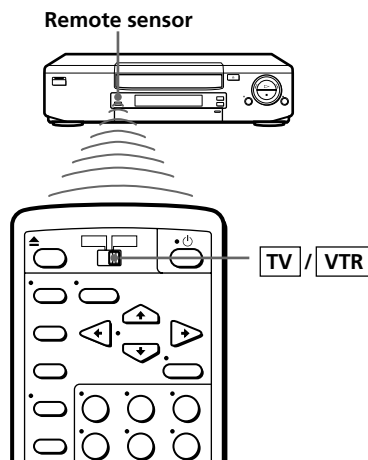
### Inserting the batteries

Insert two R6 (size AA) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.



### Using the remote commander

You can use this remote commander to operate this VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV.



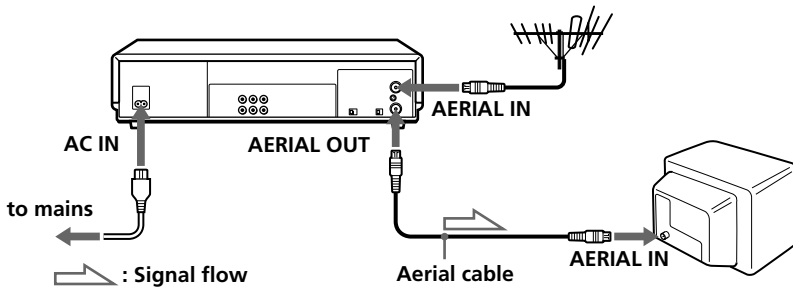
To operate	Set <b>TV/VTR</b> to
the VCR	<b>VTR</b> and point at the remote sensor on the VCR
a Sony TV	<b>TV</b> and point at the remote sensor on the TV

#### Notes

- The TV/VIDEO button selects an input source of the TV from aerial in or line in. The button does not control this VCR.
- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not use different types of batteries.

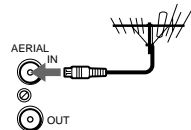
## Step 3

# Connecting the VCR



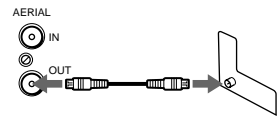
1

Disconnect the aerial input cable from your TV and connect it to AERIAL IN on the rear panel of the VCR.



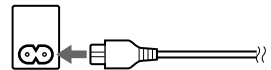
2

Connect AERIAL OUT of the VCR and the aerial input of your TV using the supplied aerial cable.



3

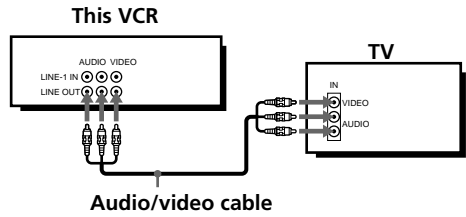
Connect AC IN of the VCR to the mains using the supplied mains lead.



## Additional connections

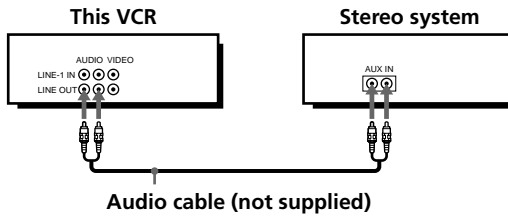
### To a TV that has phono type audio/video input jacks

This additional connection improves picture and sound quality. Connect the TV as shown on the right.



### To a stereo system

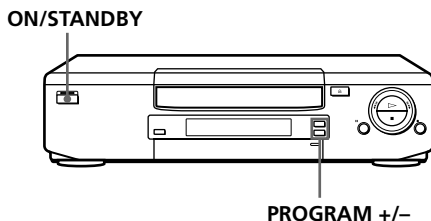
You can improve sound quality by connecting a stereo system as shown below.




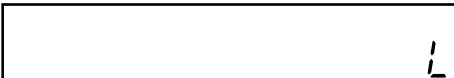
## Step 4

# Tuning your TV to the VCR

If you have connected your VCR to the TV using the audio/video cable, skip this step.



- 
- 1**  Press ON/STANDBY to turn on the VCR.

- 
- 2**  Press PROGRAM +/- until "L1" appears in the display window.
- 

- 
- 3** Turn on your TV and select a programme position for video playback.
- Choose a channel between UHF 30 and 39 on the TV, where there is no picture and no sound or only a steady rustling sound.
- This channel will now be referred to as the video channel.

- 
- 4** Tune the TV so that a blue screen appears on the TV screen.
- Refer to your TV manual for tuning instructions.
- You have now tuned your TV to the VCR. From now on, whenever you want to play a tape, set the TV to the video channel.
- If the blue screen does not appear clearly, see "To obtain a clear blue screen" on page 9.
-

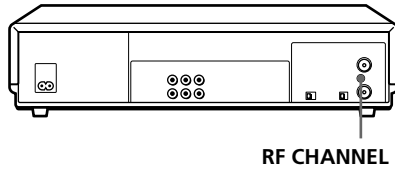


### To check to see if the TV tuning is correct

Set the TV to the video channel and press PROGRAM +/- on the VCR. If the TV screen changes to a different programme each time you press PROGRAM +/-, the TV tuning is correct.

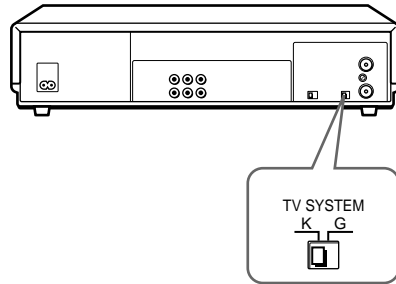
### To obtain a clear blue screen

If the blue screen does not appear clearly in step 4 above, turn the RF CHANNEL screw at the rear of the VCR with an RF screwdriver to a position where the TV clearly displays the blue screen.



### Selecting the TV system

For your TV to receive the correct signal from your VCR, you must set the TV SYSTEM switch at the rear of the VCR to either G (for system B/G) or K (for system D/K). If this switch is set to the wrong position, the sound will be distorted.



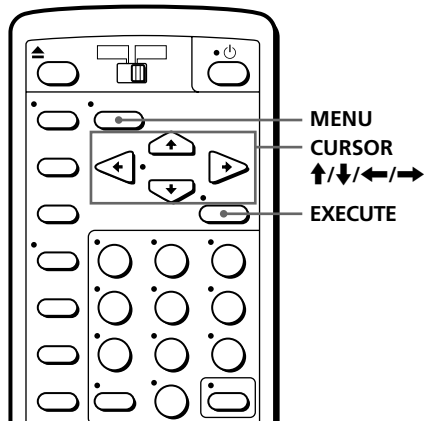
## Step 5

# Selecting a language

You can change the on-screen language from English to Chinese or Arabic.

**Before you start...**

- Turn on the VCR and the TV.
- Set the TV to the video channel.



1



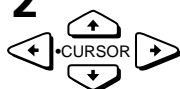
Press MENU.

MENU

►TIMER SET / CHECK  
SET UP MENU  
TUNER PRESET  
CLOCK SET  
LANGUAGE / 语言 / ٱٱٱٱ

SELECT : [ ٱٱ ]  
SET : [ EXECUTE ]

2



Press CURSOR  $\uparrow/\downarrow$  to move the cursor ( $\blacktriangleright$ ) to LANGUAGE and press EXECUTE.

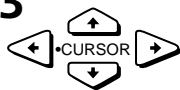


LANGUAGE / 语言 / ٱٱٱٱ

• ENGLISH  
中文  
ٱٱ

SELECT : [ ٱٱ ]  
END : [ EXECUTE ]

3



Press CURSOR  $\uparrow/\downarrow$  to flash the desired language, then press EXECUTE.



LANGUAGE / 语言 / ٱٱٱٱ

ENGLISH  
• 中文  
ٱٱ

选择 : [ ٱٱ ]  
完毕 : [ EXECUTE ]

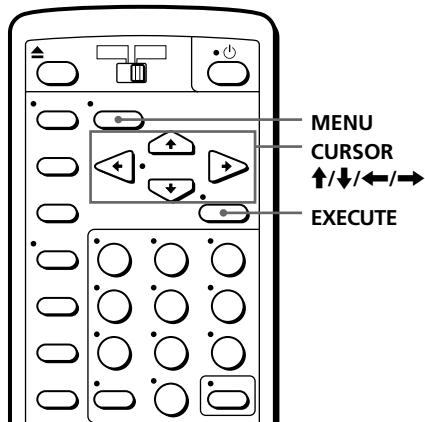
## Step 6


### Setting the clock

You must set the time and date on the VCR to be able to use the timer recording features properly. You can set the VCR clock using the on-screen display.

#### Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

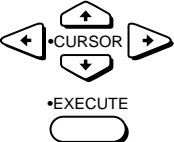




- 1**  Press MENU.

```

MENU
▶TIMER SET / CHECK
  SET UP MENU
  TUNER PRESET
  CLOCK SET
  LANGUAGE / 语言 / 言語
SELECT : [↔]
SET     : [↔]




```

- 2**  Press CURSOR / to move the cursor (▶) to CLOCK SET, then press EXECUTE.

```

CLOCK SET
1.1996 MON 0:00
SELECT : [↔]
SET     : [↔]
END     : [EXECUTE]





```

- 3**  Press CURSOR / to set the day. The day of the week is set automatically.

```

CLOCK SET
25.1.1996 THU 0:00
SELECT : [↔]
SET     : [↔]
END     : [EXECUTE]

```

- 4**  Press CURSOR  to flash the month and set the month using CURSOR /.

```

CLOCK SET
25 2.1996 WED 0:00
SELECT : [↔]
SET     : [↔]
END     : [EXECUTE]

```

**continued**

---

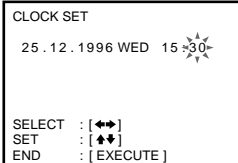
## Step 6 : Setting the clock (continued)

---

5



Set the year, hour and minutes in sequence, using CURSOR → to flash the item to be set, and CURSOR ↑/↓ to select the digits.



6



Press EXECUTE to start the clock.

---

### Tip

- To change the digits during setting, press CURSOR ← to return to the item to be changed, and select the digits using CURSOR ↑/↓.

### Note

- The menu disappears automatically if you don't proceed for more than a few minutes.

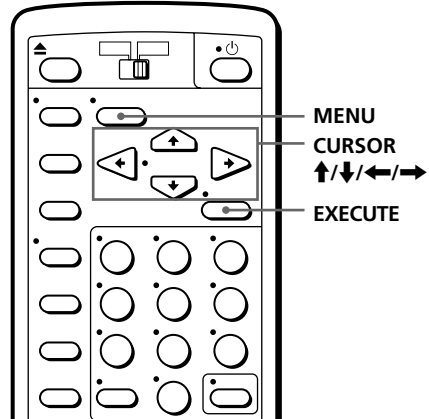
## Step 7

### Tuning the VCR

First, we recommend that you preset the receivable channels in your area using automatic presetting. Then, if some channels could not be preset automatically, you can preset them manually; if there are any unwanted channels among the preset ones, you can disable the channels.

#### Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.



### Presetting all receivable channels automatically

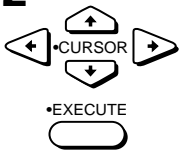
1



Press MENU.

MENU	
▶TIMER SET / CHECK	
SET UP MENU	
TUNER PRESET	
CLOCK SET	
LANGUAGE / 语言 / 语言	
SELECT : [▲◆]	
SET : [EXECUTE]	

2



Press CURSOR **↑/↓** to move the cursor (▶) to TUNER PRESET, then press EXECUTE.

TUNER PRESET	PROG 1
SYSTEM	•B/G D/K
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	1
AFT	•ON OFF
FINE TUNING	
SELECT : [▲◆]	
SET : [◆◆]	

continued

## Step 7 : Tuning the VCR (continued)

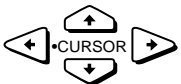
3



Press CURSOR  $\uparrow/\downarrow/\leftarrow/\rightarrow$  to move the cursor ( $\blacktriangleright$ ) to SYSTEM, then select either B/G or D/K, whichever is applicable in your area. If SYSTEM is set to the wrong position, the sound will be distorted or noisy.

TUNER PRESET		PROG 1	
$\blacktriangleright$ SYSTEM	NORMAL / CATV	•B/G	D/K
AUTO PRESET		•NORM	CATV
CHANNEL SET		1	OFF
AFT		•ON	OFF
FINE TUNING			
SELECT	: [ $\blacktriangle\blacktriangleright$ ]		
SET	: [ $\blacktriangle\blacktriangleleft$ ]		

4



Press CURSOR  $\uparrow/\downarrow/\leftarrow/\rightarrow$  to move the cursor ( $\blacktriangleright$ ) to NORMAL/CATV, then select NORM.

To preset CATV channels, select CATV.

TUNER PRESET		PROG 1	
SYSTEM	NORMAL / CATV	•B/G	D/K
$\blacktriangleright$ NORMAL / CATV		•NORM	CATV
AUTO PRESET			
CHANNEL SET		1	OFF
AFT		•ON	OFF
FINE TUNING			
SELECT	: [ $\blacktriangle\blacktriangleright$ ]		
SET	: [ $\blacktriangle\blacktriangleleft$ ]		

5



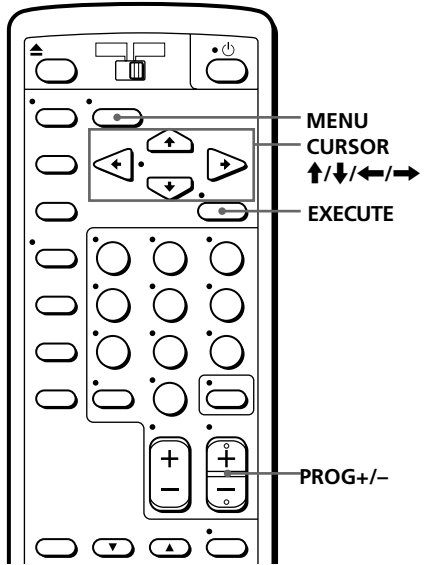
Press CURSOR  $\uparrow/\downarrow$  to move the cursor ( $\blacktriangleright$ ) to AUTO PRESET, then press EXECUTE.


All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.



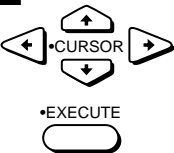


TUNER PRESET		PROG 1	
SYSTEM	NORMAL / CATV	•B/G	D/K
$\blacktriangleright$ AUTO PRESET		•NORM	CATV
CHANNEL SET		1	OFF
AFT		•ON	OFF
FINE TUNING			
*****			
*PLEASE WAIT*			
*****			

## Presetting channels manually

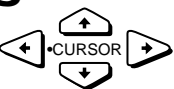






**1**  Press MENU.

MENU	
▶TIMER SET / CHECK	
SET UP MENU	
TUNER PRESET	
CLOCK SET	
LANGUAGE / 语言 / 語	
SELECT : [▲▲]	
SET : [EXECUTE]	

**2**  Press CURSOR /  to move the cursor (▶) to TUNER PRESET, then press EXECUTE.

TUNER PRESET	PROG10
SYSTEM	•B/G D/K
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	21 OFF
AFT	•ON
FINE TUNING	
SELECT : [▲▲]	
SET : [▶▶]	

**3**  Press CURSOR / / /  to move the cursor (▶) to NORMAL/CATV, then select NORM.  
To preset CATV channels, select CATV.

TUNER PRESET	PROG10
SYSTEM	•B/G D/K
▶NORMAL / CATV	•NORM CATV
AUTO PRESET	
CHANNEL SET	21 OFF
AFT	•ON
FINE TUNING	
SELECT : [▲▲]	
SET : [▶▶]	

**continued**

## Step 7 : Tuning the VCR (continued)

4



Press CURSOR  $\uparrow/\downarrow$  to move the cursor ( $\blacktriangleright$ ) to CHANNEL SET.

TUNER PRESET	PROG10
SYSTEM	•B/G D/K
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	•21
AFT	•ON OFF
FINE TUNING	
SELECT : [ $\blacktriangle\blacktriangleright$ ]	
SET : [ $\blacktriangle\blacktriangle$ ]	

5



Press PROG +/- to select the programme position.

**Selected programme position**

TUNER PRESET	PROG10
SYSTEM	•B/G D/K
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	•21
AFT	•ON OFF
FINE TUNING	
SELECT : [ $\blacktriangle\blacktriangleright$ ]	
SET : [ $\blacktriangle\blacktriangle$ ]	

6



Press CURSOR  $\rightarrow$  repeatedly until the channel you want is displayed. Pressing CURSOR  $\leftarrow$  goes back to the previous channels.

The channels are scanned in the following order:

TUNER PRESET	PROG14
SYSTEM	•B/G D/K
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	•35
AFT	•ON OFF
FINE TUNING	
SELECT : [ $\blacktriangle\blacktriangleright$ ]	
SET : [ $\blacktriangle\blacktriangle$ ]	

Channel coverage	System D/K	System B/G
VHF	R1-R12	E2-E12
UHF	R21-R69	E21-E69
CATV (TV distribution)	—	S1-S41, S01-S05

If you know the number of the channel you want, press the programme number buttons. For example, for channel 5, first press “0” and then press “5.”

7



If the TV sound is distorted or noisy, press CURSOR  $\uparrow/\downarrow/\leftarrow/\rightarrow$  to move the cursor ( $\blacktriangleright$ ) to SYSTEM, then select either B/G or D/K, whichever is applicable in your area.

TUNER PRESET	PROG14
▶SYSTEM	•B/G D/K
NORMAL / CATV	•NORM CATV
AUTO PRESET	
CHANNEL SET	•35
AFT	•ON OFF
FINE TUNING	
SELECT : [ $\blacktriangle\blacktriangleright$ ]	
SET : [ $\blacktriangle\blacktriangle$ ]	

8



To allocate another channel to another programme position, repeat steps 4 to 7.

9

Press EXECUTE.



## Disabling unwanted programme positions

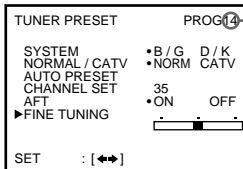
After tuning the TV channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/- buttons.

- 1 Press MENU, then select TUNER PRESET and press EXECUTE.
- 2 Select CHANNEL SET.
- 3 Press PROG +/- until the programme position you want to disable appears beside "PROG" on the TV screen.
- 4 Press programme number button "0" twice to display the number "0" beside CHANNEL SET.
- 5 Repeat steps 3 and 4 for other positions you want to disable.
- 6 Press EXECUTE.

## If the picture is not clear

Normally, the Auto Fine Tuning (AFT) function automatically tunes in channels clearly. If, however, the picture is not clear, you may also use the manual tuning function.

- 1 Press PROG +/- to select the programme position for which you cannot obtain a clear picture.
- 2 Press MENU, then select TUNER PRESET and press EXECUTE.
- 3 Select FINE TUNING. The fine tuning meter appears.



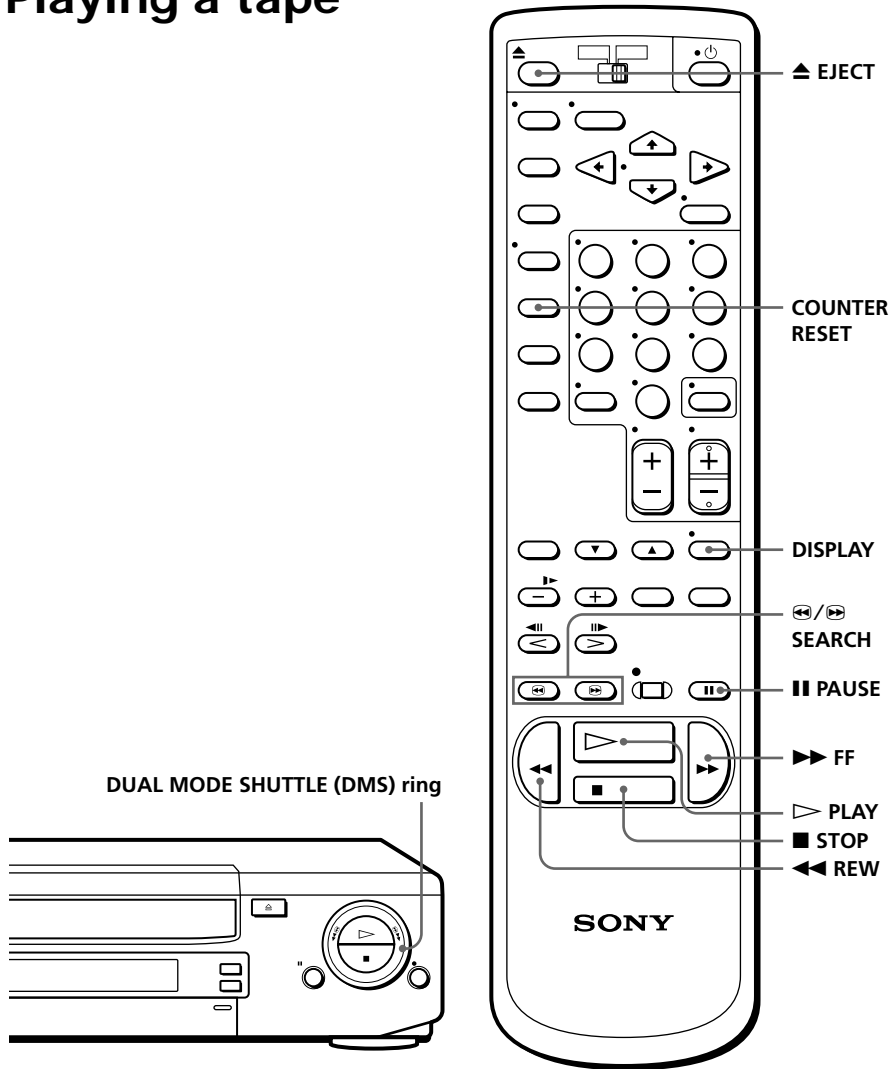
Selected programme position

- 4 Press CURSOR ←/→ to get a clearer picture, then press EXECUTE. Note that the AFT (Auto Fine Tuning) setting switches to OFF.

### Note

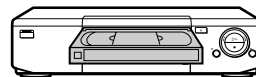
- The menu disappears automatically if you don't proceed for more than a few minutes.

# Playing a tape



**1** Turn on your TV and set it to the video channel.

**2** Insert a tape.  
The VCR turns on and starts playing automatically if you insert a tape with its safety tab removed.



**3**Press ▷ **PLAY**.

When the tape reaches the end, it will rewind automatically.

**Additional tasks**

To	Press
Stop play	■ STOP
Pause play	PAUSE
Resume play after pause	PAUSE or ▷ PLAY
Search forward	<ul style="list-style-type: none"> <li>• Turn the DUAL MODE SHUTTLE (DMS) ring to ⏩ during playback</li> <li>• ▶▶ FF or ⏩ SEARCH during playback</li> </ul>
Search backward	<ul style="list-style-type: none"> <li>• Turn the DMS ring to ⏪ during playback</li> <li>• ◀◀ REW or ⏪ SEARCH during playback</li> </ul>
Fast-forward the tape	<ul style="list-style-type: none"> <li>• Turn the DMS ring to ▶▶ FF during stop</li> <li>• ▶▶ FF during stop</li> </ul>
Rewind the tape	<ul style="list-style-type: none"> <li>• Turn the DMS ring to ◀◀ REW during stop</li> <li>• ◀◀ REW during stop</li> </ul>
Eject the tape	⏏ EJECT

**To set the colour system**

If streaks appear during playback, set COLOR SYSTEM on the VCR to conform to the system that the tape was recorded in. (Normally set the switch to AUTO.)

If your tape was recorded in	Set COLOR SYSTEM to
PAL	PAL/MESECAM
NTSC	NTSC
MESECAM	PAL/MESECAM

**continued**

## Playing a tape (continued)

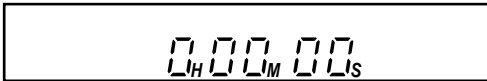
### To play an NTSC-recorded tape

Set NTSC PB at the rear of the VCR according to the colour system of your TV.

If your TV is	Set NTSC PB to
PAL	ON PAL TV
NTSC 4.43	NTSC 4.43
NTSC 3.58	NTSC 3.58

### To use the time counter

At the point on the tape that you want to find later, press COUNTER RESET. The counter in the display window resets to "0H00M00S." Search for the point afterwards by referring to the counter.

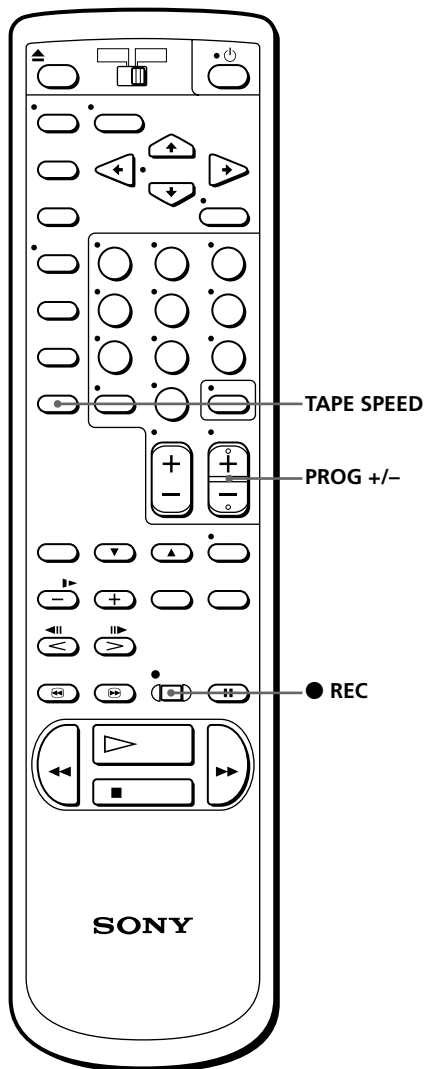


To display the counter on the TV screen, press DISPLAY.

### Notes

- The counter resets to "0H00M00S" whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This is due to the difference between the counting cycles of the two video systems.
- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
  - the picture is black and white
  - the picture shakes
  - no picture appears on the TV screen
  - black streaks appear horizontally on the TV screen
  - the colour density increases or decreases.

# Recording TV programmes



---

**1** Turn on your TV and set it to the video channel.

---

**2** Insert a tape with its safety tab in place.

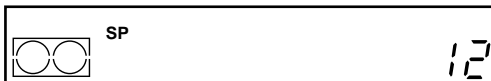
continued

## Recording TV programmes (continued)

3



Press PROG +/- to select the programme position you want to record.



4



Press TAPE SPEED to select the tape speed, SP or LP.

LP provides recording time twice as long as SP, however, SP produces better picture and audio quality.



5



Press ● REC to start recording.

### To stop recording

Press ■ STOP.

### To check the remaining tape length

Press DISPLAY during playback or recording. The white bar indicates the approximate length of tape remaining.



### To watch another TV programme while recording

- 1 If the TV is connected to the VCR using an audio/video cable, set the TV to TV input. If the TV is connected to the VCR using only the aerial cable, skip this step.
- 2 Select another programme position on the TV.

### To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on a tape again, cover the tab hole with adhesive tape.



## To record NTSC colour system programmes

NTSC colour signals can be recorded on this VCR.

For tape speed, select SP or EP in step 4.

EP provides recording time three times as long as SP, however, SP produces better picture quality.

When playing back, the VCR automatically detects the tape speed.

### Tips

- To select a programme position, you can use the programme number buttons on the remote commander. For two-digit numbers, press the -/-- (ten's digit) button followed by the number buttons.
- You can select a video source from the LINE-1 IN or LINE-2 IN jacks using INPUT SELECT.
- To cut out an unwanted scene while recording, press **|| PAUSE** and turn the DUAL MODE SHUTTLE ring on the VCR to rewind the tape to the beginning of the unwanted scene, then press **|| PAUSE** to resume recording.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV.

### Notes

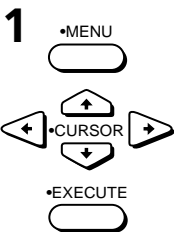
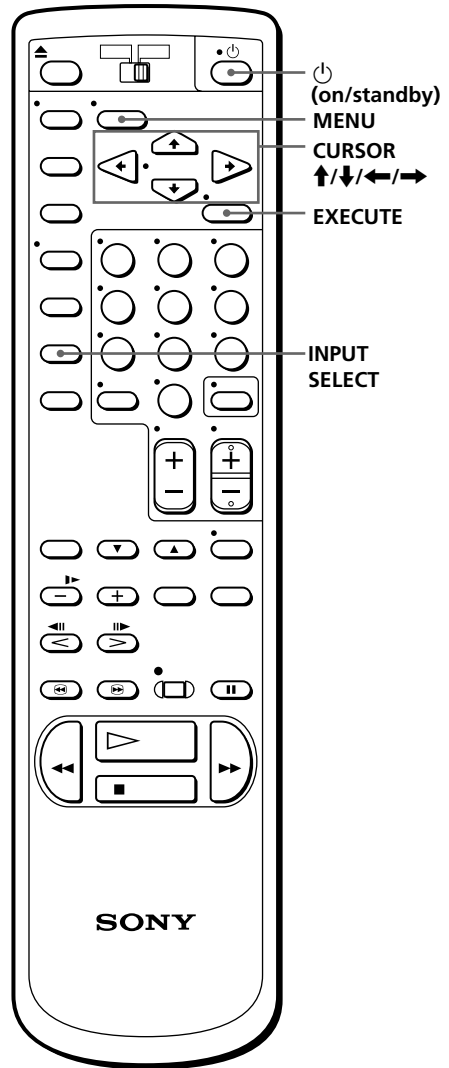
- The display does not appear during still (pause) mode or slow-motion playback.
- The display will not appear while playing an NTSC-recorded tape.

# Recording TV programmes using the timer

You can preset up to eight programs at a time.

## Before you start...

- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.

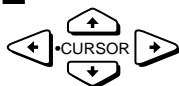


**1** Press MENU and select TIMER SET / CHECK, then press EXECUTE.

TIMER SET / CHECK	DATE	START	STOP	25.12 WE	PROG
▶	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--



2



Set the date, start and stop times, programme position, and tape speed:

- 1 Press CURSOR → to flash each item in turn.
- 2 Press CURSOR ↑/↓ to set each item.

To correct a setting, press CURSOR ← to return to that setting and reset.

To record the same programme every day or the same day every week, press CURSOR ↓ while the date is flashing. For details, see “Daily/weekly recording” on page 26.

To record from a source connected to the LINE-1 IN or LINE-2 IN jacks, press INPUT SELECT to display “L1” or “L2” in the “PROG” position.

TIMER SET / CHECK	25. 12 WE		
DATE	START	STOP	PROG
25. 12 WE	---	---	SP
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

3



Press CURSOR → to confirm the setting.

The cursor (▶) appears at the top of the line. To enter another setting, move the cursor to the next line and repeat step 2.

4



Press EXECUTE.

5



Press ⏻ to turn off the VCR.

The TIMER indicator appears in the display window and the VCR stands by for recording.

To record from other equipment, leave the connected equipment on.

### To stop recording

To stop the VCR while recording, press ■ STOP.

continued

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## Recording TV programmes using the timer (continued)

### To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press  $\odot$ . The TIMER indicator turns off and the VCR switches on. Remember to press  $\odot$  to reset the VCR after using the VCR.

You can also do the following tasks while the VCR is recording:

- Reset the counter.
- Display tape information on the TV screen.
- Check the timer settings.
- Watch another TV program.

### Daily/weekly recording

In step 2 above, press CURSOR  $\downarrow$  to select the recording pattern. Each time you press CURSOR  $\downarrow$ , the indication changes as shown below. Press CURSOR  $\uparrow$  to change the indication in reverse order.

the current date  $\rightarrow$  SU-SA  $\rightarrow$  MO-SA  $\rightarrow$  MO-FR  $\rightarrow$  EVERY SA .....  
 $\rightarrow$  EVERY MO  $\rightarrow$  EVERY SU  $\rightarrow$  1 month later  $\rightarrow$  (cycles backward)  
 $\rightarrow$  the current date

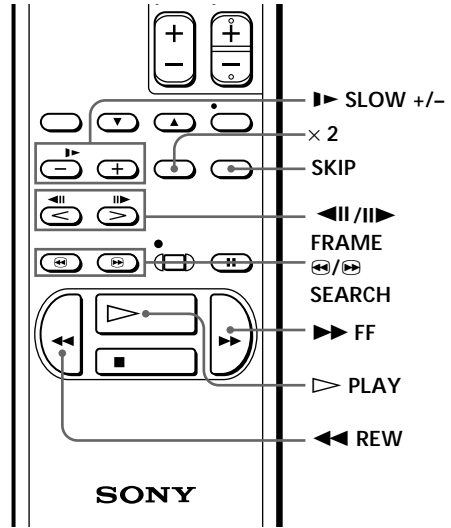
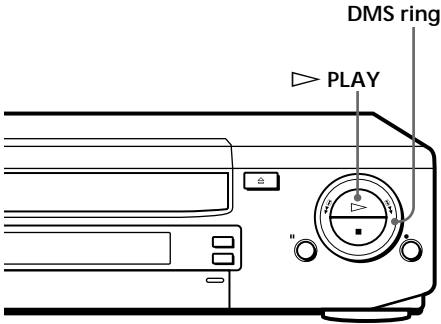
### Tips

- To set the programme position, you can also use the PROG +/- or programme number buttons.
- To set the tape speed, you can also use TAPE SPEED.
- To record NTSC signals, set the tape speed to SP or EP. To set the EP mode, display "LP" in the tape speed position.

### Note

- "TIMER" flashes in the display window when you press  $\odot$  with no tape inserted.

# Playing/searching at various speeds



Playback options	Operation
Fast-forward/rewind	<ul style="list-style-type: none"> <li>• During stop, turn the DMS ring to ►► FF or ◄◄ REW and release.</li> <li>• During stop, press ►► FF or ◄◄ REW.</li> </ul>
View the picture during fast-forward or rewind	<ul style="list-style-type: none"> <li>• During fast-forward, turn the DMS ring to ►► FF. During rewind, turn the DMS ring to ◄◄ REW.</li> <li>• During fast-forward, hold ►► FF down. During rewind, hold ◄◄ REW down.</li> </ul>
Play at twice the normal speed	During playback, press x 2.
Play at high speed	During playback or pause, press ◀ SEARCH or ▶ SEARCH. To change direction, press ◀▶ FRAME or ▶◀ FRAME.
Play in slow motion	During playback or pause, press ► SLOW+/- . Press the +/- buttons to change the speed. To change direction, press ◀▶ FRAME or ▶◀ FRAME.
Skip a scene	During playback, press SKIP. Pressing once skips about 30 seconds.
Play frame by frame	During pause, press ◀▶ FRAME or ▶◀ FRAME. Hold the button down to play one frame each second.
Play in reverse	During playback, press ▶◀ FRAME.
Rewind and start play	During stop, hold the DMS ring at the ◄◄ REW position and press ▷ PLAY on the VCR, then release the DMS ring.

continued

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## ***Playing/searching at various speeds (continued)***

To resume normal playback

Press ▷ PLAY.

### **Tip**

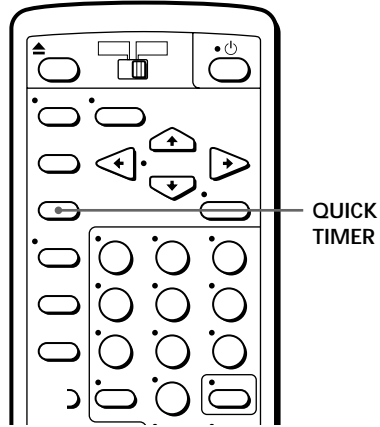
- Adjust the picture using ▼/▲ TRACKING NORMAL/SLOW STILL ADJUST if:
  - streaks appear while playing in slow motion
  - bands appear at the top or bottom while pausing
  - the picture shakes while pausing.

### **Notes**

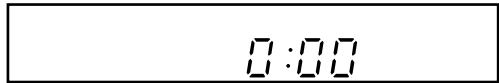
- The playback sound is muted during these operations.
- In LP mode, noise may appear or there may be no colour.

# Recording TV programmes using the quick timer

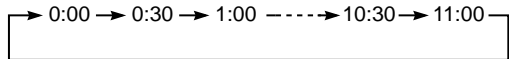
After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



- 1 While recording, press QUICK TIMER once.



- 2 Press QUICK TIMER repeatedly to set the duration.  
Each press advances the time in increments of 30 minutes.



The duration decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

## To extend the duration

Press QUICK TIMER repeatedly to set to the new duration.

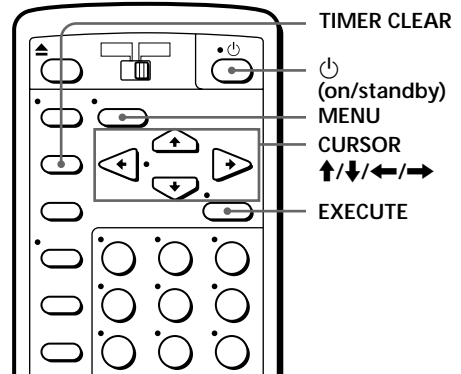
## To stop recording

To stop the VCR while recording, press ■ STOP.

## Tip

- You can also set the quick timer and start recording during the stop mode.

# Checking/ changing/ cancelling timer settings



Before you start...

- Turn on your TV and set it to the video channel.

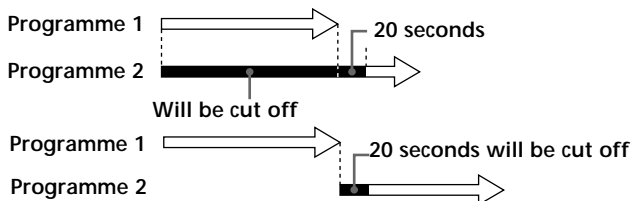
- 1 Press to turn on the VCR.
- 2 Press MENU and select TIMER SET/CHECK:
  - If you want to change a setting, go on to the next step.
  - If you do not need to change the settings, press EXECUTE, then turn off the VCR to return to recording standby.

DATE	START	STOP	PROG
▶ 6 . 1 MO	7 : 00	8 : 00	6 SP
8 . 1 WE	21 : 00	0 : 00	50 LP
MO - SA	0 : 12	13 : 00	27 LP
EVERY SU	23 : 00	0 : 00	L2 SP
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

- 3 Press CURSOR to select the setting you want to change or cancel:
  - To change the setting, press CURSOR to flash the item you want to change, and press CURSOR to reset it. Then, press CURSOR repeatedly until the cursor (▶) appears at the top of the line.
  - To cancel the setting, press TIMER CLEAR.
- 4 Press EXECUTE.  
If any settings remain, turn off the VCR to return to recording standby.

## When the timer settings overlap

The programme that starts first has priority and the second programme starts recording only after the first programme has finished. If the programmes start at the same time, the programme listed first in the menu has priority.



# Recording stereo programmes

The VCR can only record stereo and bilingual programmes through the line input. When stereo or bilingual sound is input through the line input, "STEREO" appears on the screen and in the display window. You cannot select the sound to listen.

## Selecting the sound during playback

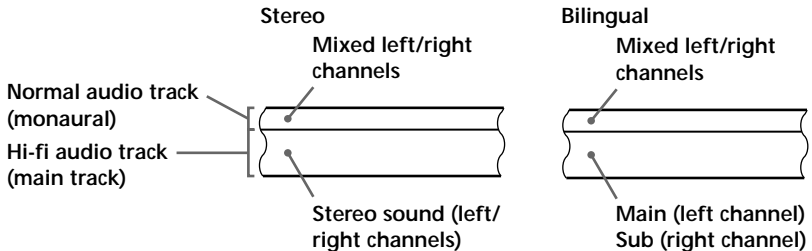
Press AUDIO MONITOR to select the sound you want.

To listen to	On-screen display	Display window
Stereo/main and sub (left and right channels)	STEREO	STEREO
Left channel/main	LCH	STEREO
Right channel/sub	RCH	STEREO
Standard sound*	No indicator	No indicator

\* The mixed sound of left and right channels (monaural)

## How sound is recorded on a video tape

The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



### Notes

- To listen to playback sounds in stereo, you must use the AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the SET UP MENU is set to OFF. For details, see page 33.

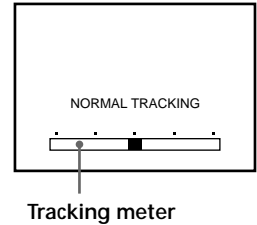
# Adjusting the picture

## Adjusting the tracking

Although the VCR automatically adjusts the tracking when playing a tape (the AUTO TRACKING indicator flashes in the display window, then lights steadily), distortion may occur if the tape was recorded in poor condition. If so, manually adjust the tracking.

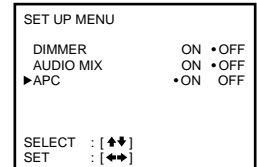
Press ▼/▲ TRACKING NORMAL/SLOW on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons.

If you cannot get a clear picture with manual adjustment, press TRACKING AUTO/MANUAL to return to automatic adjustment.



## About Adaptive Picture Control (APC)

Adaptive Picture Control (APC) automatically improves recording and playback quality by adjusting the VCR to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set APC to ON in the SET UP MENU (with the APC indicator in the display window lit).



### APC playback

The APC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with APC.

### APC recording

Whenever you insert a tape and first start recording, the VCR adjusts to the tape using the APC function (the APC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

### To deactivate the APC

Press MENU and select SET UP MENU, then set APC to OFF. The APC indicator in the display window goes off.

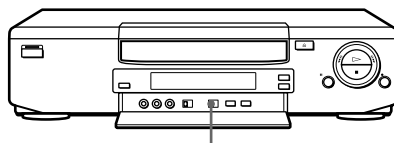
### Note

- There is a delay of a few seconds before the VCR actually starts recording while the VCR analyses the tape. To avoid the delay, first set the VCR to recording pause (the APC indicator flashes slowly) and press ● REC to have the VCR analyse the tape (the APC indicator flashes rapidly). After the APC indicator stops flashing, press ■ PAUSE to start recording immediately. If you want to start recording quickly without using the APC function, first set the VCR to recording pause (the APC indicator flashes slowly) and press ■ PAUSE to start recording.



## Reducing streaks and/or snow

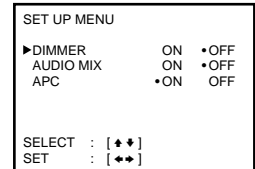
If you are not satisfied with the picture quality while playing a tape, even when the APC is on, try setting RENTAL PICTURE to ON.



RENTAL PICTURE

# Changing menu options

- 1 Press MENU, then select SET UP MENU.



- 2 Press CURSOR ↑/↓ to select the option to change, then press CURSOR ←/→ to change the setting.
- 3 Press EXECUTE to return to the original screen.

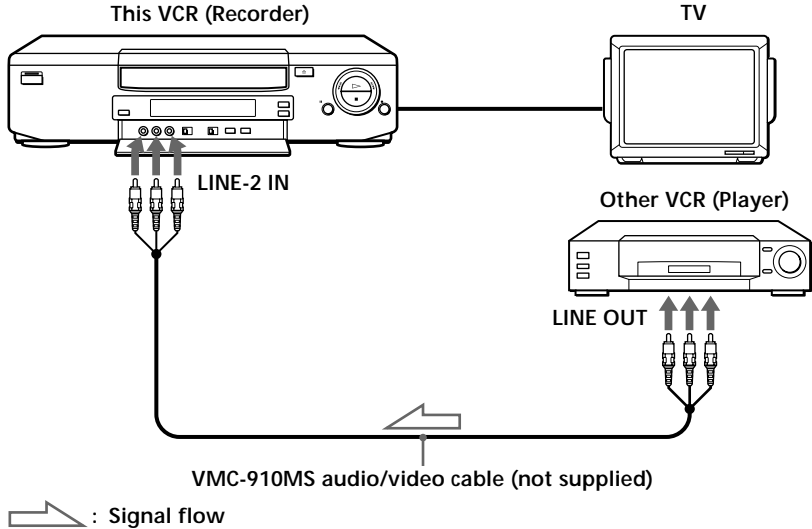
## Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
DIMMER	<b>ON</b> to make the display window dim, <b>OFF</b> to make it brighter.
AUDIO MIX	<b>ON</b> to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. <b>OFF</b> to listen to hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button.
APC	<b>ON</b> to switch on the APC (Adaptive Picture Control) function and improve picture quality, <b>OFF</b> to switch off APC.

# Editing with another VCR

## How to connect to record on this VCR



### Notes

- Make sure you connect the plugs to jacks of the same color.
- If the other VCR is a monaural type, leave the red plugs unconnected.
- If you connected this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
- You can also use the LINE-1 IN jacks instead.

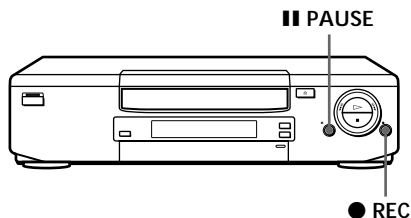
continued

## Editing with another VCR (continued)

### Operation (when recording on this VCR)

#### Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display “L2” in the display window.
- Press TAPE SPEED to select the tape speed (SP or LP for the PAL system, and SP or EP for the NTSC system).



- 1 Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.
- 2 Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press || PAUSE.
- 3 Press ● REC on this VCR and set it to recording pause.
- 4 To start editing, press the || PAUSE buttons on both VCRs at the same time.

#### To stop editing

Press the ■ STOP buttons on both VCRs.

#### Tips

- To edit more precisely, press the || PAUSE buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press || PAUSE on this VCR when an unwanted scene begins. When it ends, press || PAUSE again to resume recording (Assemble Editing).

#### Note

- If you start recording following the procedure above, the VCR won't start recording with the APC function. To record a tape with the APC function, press ● REC again during recording pause in step 3 so that the VCR analyzes the tape. Then when you start recording in step 4, press || PAUSE after the APC indicator stops flashing. If you press || PAUSE before the APC indicator stops flashing, the APC function is cancelled.

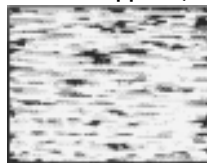
# Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony service facility.

	Symptom	Remedy
Power	The ON/STANDBY switch does not function.	<ul style="list-style-type: none"> <li>• Connect the mains lead securely.</li> </ul>
	The power is turned on but the VCR does not operate.	<ul style="list-style-type: none"> <li>• Moisture condensation occurs. Turn the power off, unplug the mains lead and leave the VCR to dry for over an hour.</li> </ul>
Clock	The clock has stopped and “-:-” lights in the display window.	<ul style="list-style-type: none"> <li>• The clock stops if the VCR is disconnected from the mains for more than three hours. Reset the clock (and timer).</li> </ul>
	The playback picture does not appear on the TV screen.	<ul style="list-style-type: none"> <li>• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.</li> </ul>
Playback	The picture is not clear.	<ul style="list-style-type: none"> <li>• Adjust the tracking with the ▼/▲ TRACKING NORMAL/SLOW buttons.</li> <li>• Make sure the COLOR SYSTEM switch is set to the position corresponding to the colour system which the tape was recorded with.</li> <li>• The video heads are dirty (see below). Clean the video heads using the Sony V-25CL video head cleaning cassette. If this cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required). Do not use a commercially available wet-type cleaning cassette, as it may damage the video heads.</li> <li>• The video heads may have to be replaced. Consult your local Sony service facility for more information.</li> </ul>
	The picture rolls vertically during picture search.	<ul style="list-style-type: none"> <li>• Adjust the vertical hold control on the TV or monitor.</li> </ul>
	The picture has no sound.	<ul style="list-style-type: none"> <li>• The tape is defective. Use a new tape.</li> </ul>
	The sound is unstable or has an echo.	<ul style="list-style-type: none"> <li>• When you play a tape with the same sound recorded on both the hi-fi and normal sound tracks, make sure the AUDIO MIX option in the SET UP MENU is set to OFF.</li> </ul>

## Symptoms caused by contaminated video heads

- Normal picture
- Rough picture
- Unclear picture
- No picture (or black & white screen appears)



initial → terminal continued

## Troubleshooting (continued)

	Symptom	Remedy
Recording	No TV programmes appear on the TV screen.	<ul style="list-style-type: none"> <li>• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.</li> </ul>
	TV reception is poor.	<ul style="list-style-type: none"> <li>• Adjust the TV aerial.</li> <li>• Make sure the TV SYSTEM switch is set to the system in your area.</li> <li>• Adjust the RF CHANNEL screw at the rear of the VCR with an RF screwdriver.</li> <li>• Make sure SYSTEM (B/G or D/K) in the TUNER PRESET menu is set to the system in your area.</li> </ul>
	The tape starts playing as soon as it is inserted.	<ul style="list-style-type: none"> <li>• The safety tab has been removed. To record on this tape, cover the tab hole.</li> </ul>
	The tape is ejected when you press ● REC.	<ul style="list-style-type: none"> <li>• Check that the safety tab has not been removed.</li> </ul>
	Nothing happens when you press ● REC.	<ul style="list-style-type: none"> <li>• Make sure the tape is not at its end.</li> <li>• Select the correct source with the INPUT SELECT buttons. Select a programme position when recording TV programmes; select "L1" or "L2" when recording from other equipment.</li> </ul>
Timer recording	The timer does not operate.	<ul style="list-style-type: none"> <li>• Check that the clock is set.</li> <li>• Make sure a tape has been inserted.</li> <li>• Check that the safety tab has not been removed.</li> <li>• Make sure the tape is not at its end.</li> <li>• Make sure a programme has been set for timer recording.</li> <li>• Make sure your timer settings have not already passed the current time.</li> <li>• The clock stops if the VCR is disconnected from the mains for more than three hours. Reset the clock and timer.</li> </ul>
	No tape can be inserted.	<ul style="list-style-type: none"> <li>• Check that a tape isn't already in the tape compartment.</li> </ul>
Others	The remote commander does not function.	<ul style="list-style-type: none"> <li>• Make sure you are pointing the remote commander at the remote sensor on the VCR.</li> <li>• Replace all the batteries in the remote commander with new ones if they are weak.</li> <li>• Make sure the <input type="checkbox"/>TV / <input type="checkbox"/>VTR remote control switch is set correctly.</li> </ul>
	The tracking indicator does not appear on the screen.	<ul style="list-style-type: none"> <li>• The recording condition of the tape is very poor and tracking cannot be adjusted, or the NTSC system is being used.</li> </ul>
	The VCR needs to be cleaned.	<ul style="list-style-type: none"> <li>• Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.</li> </ul>

---

# Specifications

## System

### Channel coverage

- VHF R1 to R12, E2 to E12
- UHF E21 to E69, R21 to R69
- CATV S01 to S05, S1 to S41

### RF output signal

- UHF channels 30 to 39

### Aerial out

- 75-ohm asymmetrical aerial socket

## Inputs and outputs

### LINE-1 IN and LINE-2 IN

- VIDEO IN, phono jack (1 each)
- Input signal: 1 V<sub>p-p</sub>, 75 ohms, unbalanced, sync negative
- AUDIO IN, phono jack (2 each)
- Input level: 327 mV<sub>rms</sub>
- Input impedance: more than 47 kilohms

### LINE OUT

- VIDEO OUT, phono jack (1)
- Output signal: 1 V<sub>p-p</sub>, 75 ohms, unbalanced, sync negative
- AUDIO OUT, phono jack (2)
- Standard output: 327 mV<sub>rms</sub>
- Load impedance: 47 kilohms
- Output impedance: less than 10 kilohms

## General

### Power requirements

- 110 – 240 V AC, 50/60 Hz

### Power consumption

- 24 W

### Operating temperature

- 5°C to 40°C

### Storage temperature

- 20°C to 60°C

### Dimensions

- Approx. 430 x 109 x 310 mm (w/h/d)
- including projecting parts and controls

### Mass

- Approx. 4.3 kg

## Supplied accessories

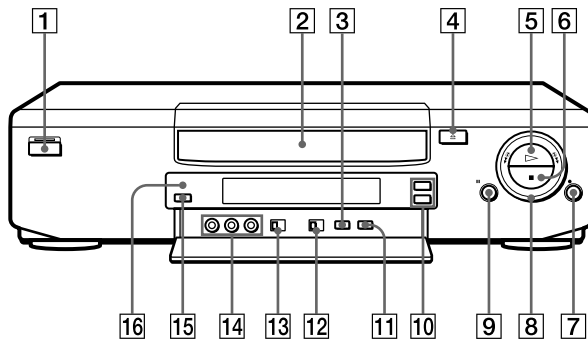
- Remote commander (1)
- R6 (Size AA) batteries (2)
- Aerial cable (1)
- Mains lead (1)
- Audio/video cable (3-phono to 3-phono) (1)
- Plug adaptor (1) (SLV-X815ME/X815SG)

Design and specifications are subject to change without notice.

# Index to parts and controls

Refer to the pages indicated in parentheses ( ) for details.

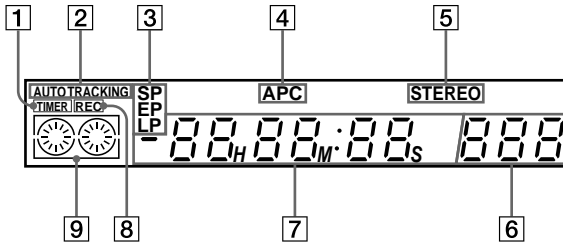
## Front panel



- |  |  |
|--|--|
| <b>1</b> ON/STANDBY switch/indicator (8) | <b>9</b> <b>  </b> PAUSE button (19)           |
| <b>2</b> Tape compartment                | <b>10</b> PROGRAM +/- buttons (8)              |
| <b>3</b> INPUT SELECT button (23, 25)    | <b>11</b> TAPE SPEED button (22)               |
| <b>4</b> <b>▲</b> EJECT button (19)      | <b>12</b> RENTAL PICTURE switch (33)           |
| <b>5</b> <b>▷</b> PLAY button (19)       | <b>13</b> COLOR SYSTEM switch (19)             |
| <b>6</b> <b>■</b> STOP button (19, 22)   | <b>14</b> LINE-2 IN VIDEO/AUDIO L/R jacks (35) |
| <b>7</b> <b>●</b> REC button (22)        | <b>15</b> COUNTER RESET button (20)            |
| <b>8</b> DUAL MODE SHUTTLE ring (19, 27) | <b>16</b> Remote sensor (5)                    |

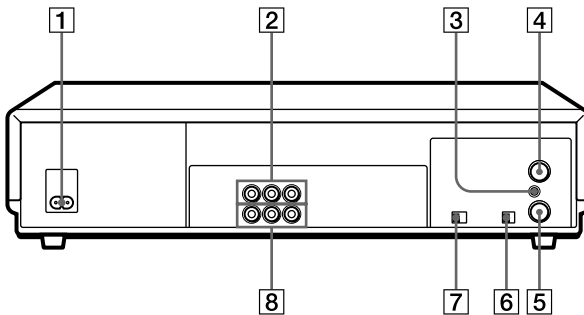


## Display window



- |                                       |  |
|---------------------------------------|--|
| <b>1</b> TIMER indicator (25)         | <b>6</b> Line/programme position indicator (8, 22) |
| <b>2</b> AUTO TRACKING indicator (32) | <b>7</b> Time counter/clock (20)                   |
| <b>3</b> Tape speed indicator (22)    | <b>8</b> REC (recording) indicator                 |
| <b>4</b> APC indicator (32)           | <b>9</b> Tape indicator                            |
| <b>5</b> STEREO indicator (31)        |  |

## Rear panel

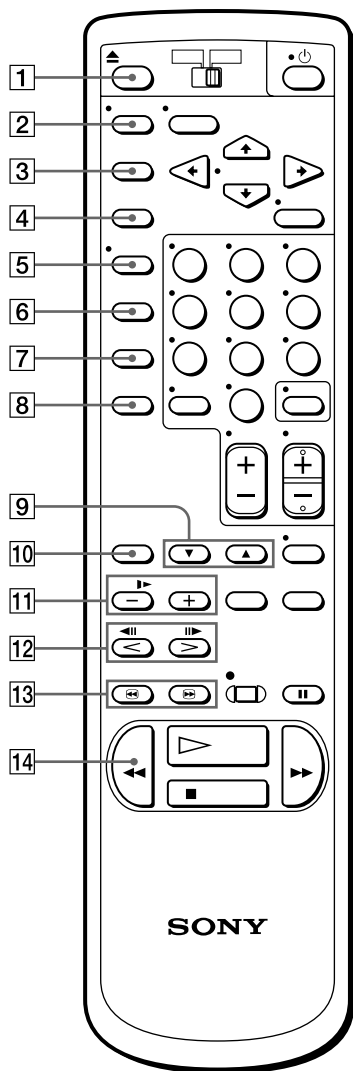


- |   |   |
|---|---|
| <b>1</b> AC IN connector (6)                  | <b>5</b> AERIAL OUT connector (6)                   |
| <b>2</b> LINE-1 IN VIDEO/AUDIO L/R jacks (35) | <b>6</b> TV SYSTEM switch (9)                       |
| <b>3</b> RF CHANNEL screw (9)                 | <b>7</b> NTSC PB switch (20)                        |
| <b>4</b> AERIAL IN connector (6)              | <b>8</b> LINE OUT VIDEO/AUDIO L/R DISP ON jacks (7) |

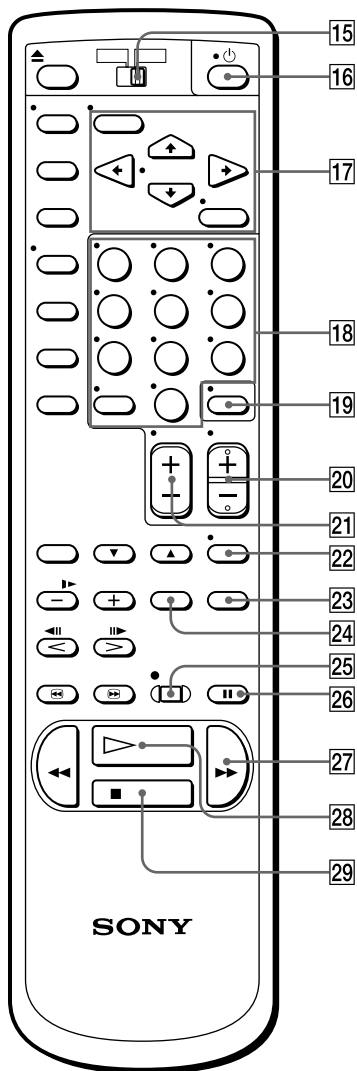
continued

## Index to parts and controls (continued)

### Remote commander



- 1 ▲ EJECT button (19)
- 2 TV/VIDEO button (*for TV*) (5)
- 3 TIMER CLEAR button (30)
- 4 QUICK TIMER button (29)
- 5 AUDIO MONITOR button (31)
- 6 COUNTER RESET button (20)
- 7 INPUT SELECT button (23, 25)
- 8 TAPE SPEED button (22)
- 9 ▼/▲TRACKING NORMAL/SLOW STILL ADJUST buttons (32)
- 10 TRACKING AUTO/MANUAL button (32)
- 11 ►SLOW +/- buttons (27)
- 12 ◀|| / ||▶ FRAME buttons (27)
- 13 ◀▶/▶ SEARCH buttons (19, 27)
- 14 ◀◀ REW button (19, 27)



- 15** TV/VTR remote control switch (5)
- 16** ⏻ (on/standby) switch (8, 25)
- 17** Menu operation buttons (10)  
 MENU button  
 CURSOR ↑/↓/←/→ buttons  
 EXECUTE button
- 18** Programme number / -/-- (ten's digit) buttons (23)
- 19** WIDE button  
 switches the wide mode of a Sony wide TV.
- 20** PROG +/- buttons (16, 22)
- 21** VOL +/- buttons (*for TV*)
- 22** DISPLAY button (20, 22)
- 23** SKIP button (27)
- 24** × 2 button (27)
- 25** ● REC button (22)
- 26** || PAUSE button (19)
- 27** ►► FF button (19)
- 28** ▷ PLAY button (19)
- 29** ■ STOP button (19, 22)

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