

Video Cassette Recorder

Operating Instructions



Easy & Durable



Hi-Fi

SLV-ED60ME/MJ/PS/SG

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.

The mains lead must only be changed at a qualified service shop.

Precautions

Safety

- This unit 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, even if the unit itself has been turned off.
- Unplug the unit from the mains if you do not intend to use it for an extended period of time. To disconnect the lead, pull it out by the plug, never by the lead.

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/TV systems

- This VCR is designed to record and play back using the PAL (B/G, D/K and I), MESECAM (B/G and D/K) and NTSC colour systems. Recording of video sources based on other colour systems cannot be guaranteed.
- NTSC colour signals can only be recorded through the line input.

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Additional Operations

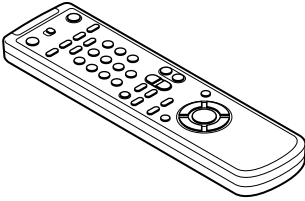
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Step 1

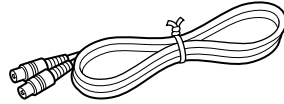
Unpacking

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

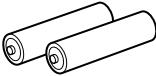
- Remote commander



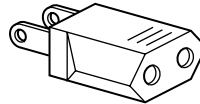
- Aerial cable



- R6 (size AA) batteries



- Plug adaptor (SLV-ED60ME/MJ only)



Checking your model name

The instructions in this manual are for the 4 models: SLV-ED60ME, ED60MJ, ED60PS and ED60SG. Check your model number by looking at the rear panel of your VCR. The SLV-ED60ME is the model used for illustration purpose. Any difference in operation is clearly indicated in the text, for example, "SLV-ED60ME only."

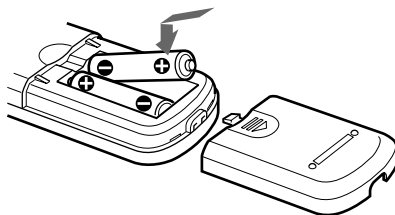
Step 2

Setting up the remote commander


Inserting the batteries

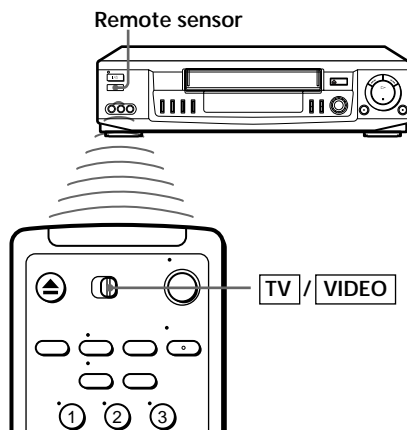
Insert two R6 (size AA) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.

Insert the negative (-) end first, then push in and down until the positive (+) end clicks into position.



Using the remote commander

You can use this remote commander to operate this VCR and a Sony TV. Buttons marked with a dot (•) can be used to operate your Sony TV. If the TV does not have the  symbol near the remote sensor, this remote commander will not operate the TV.



To operate	Set TV / VIDEO to
the VCR	VIDEO and point at the remote sensor on the VCR
a Sony TV	TV and point at the remote sensor on the TV

Notes

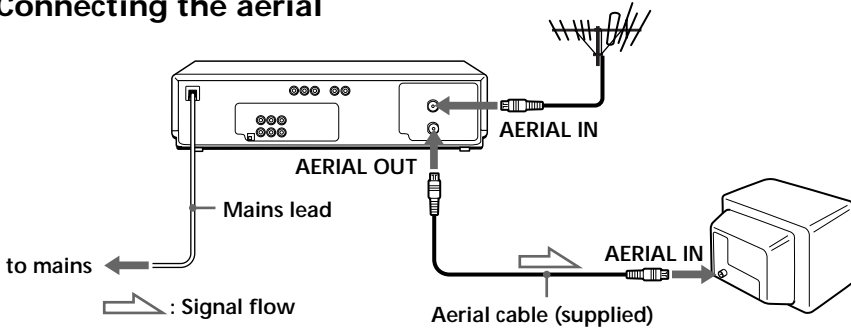
- The TV/VIDEO button selects an input source of the TV from either aerial in or line in. The button does not control this VCR.
- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid 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

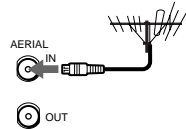
Connect the aerial to your VCR and TV as shown below to watch TV programmes and VCR pictures on your TV. In addition, if your TV has audio/video (A/V) input jacks, we recommend you connect the VCR to your TV using an audio/video cable to get a better picture and sound.

Connecting the aerial



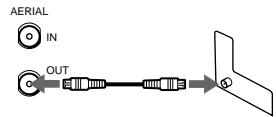
1

Disconnect the aerial 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

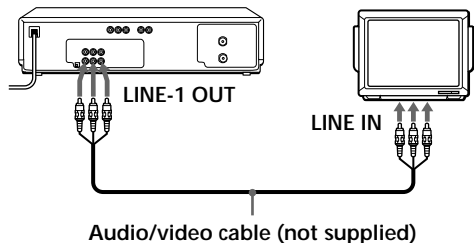
Connect the mains lead to the mains.

Additional connections

To a TV that has audio/video input jacks

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

If you want to use the Trinitron TV Synchro Play function (see page 22), this connection is necessary. (If your TV has two or more inputs, connect the audio/video cable to the VIDEO IN 1 jacks.)

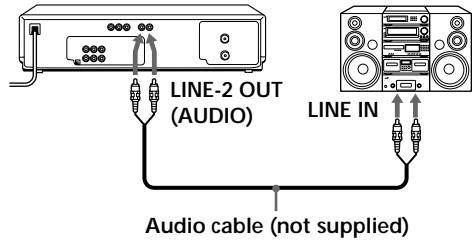


To a stereo system

You can improve sound quality by connecting a stereo system as shown on the right.

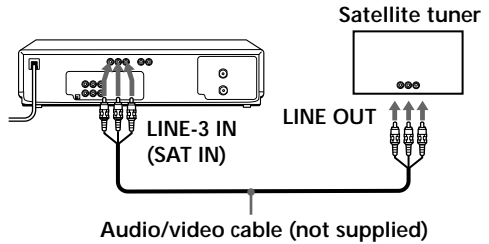
Note

- To listen to playback sounds in stereo, you must use either of the connections above.



To a satellite tuner

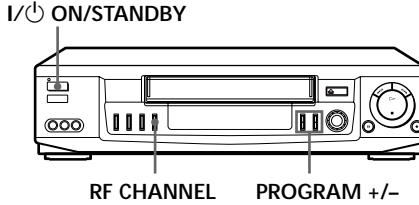
You can record programmes from other equipment such as a satellite tuner.



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



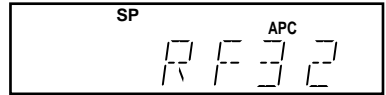
Press I/ON/STANDBY to turn on the VCR.

2



Press RF CHANNEL on the VCR.

The factory-preset RF channel appears in the display window.
The VCR signal is output through this channel to the TV.



3

Turn on your TV and select a programme position for the VCR picture.
This channel will now be referred to as the video channel.

Some TV has the programme position, such as 0, that is reserved for a VCR. In this case, select that programme position for the VCR picture. Refer to the instruction manual of your TV for details.

4



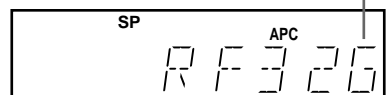
Press RF CHANNEL.

The TV system indicator appears in the display window.

Press PROGRAM +/- to select the correct TV system.

If your TV system is	Select
B/G	G
I	I
D/K	K

Selected TV system



5

Tune the TV to the same channel as that shown in the display window so that the picture on the right appears on the TV screen.

Refer to your TV manual for tuning instructions.

If the picture does not appear clearly, see “To obtain a clear picture from the VCR” below.



SONY VIDEO CASSETTE
RECORDER

6

Press RF CHANNEL.

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.

To obtain a clear picture from the VCR

If the picture does not appear clearly in step 5 above, go to step 6 to finish this procedure once. Then start from step 2. After pressing RF CHANNEL in step 2 to display the RF channel, press PROGRAM +/- so that another RF channel appears. Then tune the TV to the new RF channel until a clear picture appears.

If you cannot obtain a clear picture after performing this procedure, we recommend you connect the VCR and TV using an audio/video cable (see “To a TV that has audio/video input jacks” on page 6). If the same symptom persists, consult your nearest Sony dealer.

Note

- If you set the wrong TV system, you may have no sound or sound may be distorted (noisy sound).

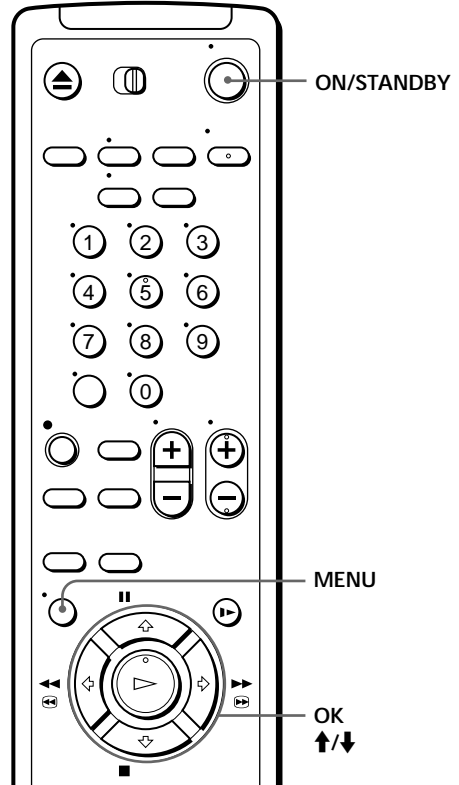
Step 5

Selecting a language

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

Before you start...

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



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



- 2** • MENU Press MENU, then press **↑/↓** to move the cursor (▶) to LANGUAGE and press OK.



LANGUAGE / لغة

• ENGLISH
عربي

SELECT : [↑↓]
END : [OK]

- 3** Press **↑/↓** to select the desired language, then press OK.



LANGUAGE / لغة

ENGLISH
عربي

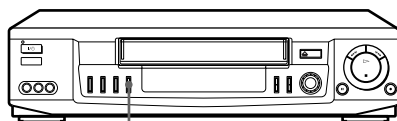
[↑↓]: اختيار
[OK]: نهائية

Step 6

Presetting channels

First, we recommend that you preset the receivable channels in your area using the one touch tuning or the AUTO PRESET in the TUNER PRESET menu. Then, if some channels could not be preset automatically, set them manually; if there are any unwanted channels among the preset ones, you can disable the channels.

Presetting all receivable channels using one touch tuning



ONE TOUCH
TUNING

1

ONE TOUCH
TUNING



Press ONE TOUCH TUNING on the VCR for more than 3 seconds.
The VCR starts the channel presetting.



The WAIT indicator goes off when all receivable channels are preset.

To check if the channels are preset correctly

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 channels are preset correctly.

If the sound is distorted or noisy, the VCR is set to a TV system different from your area's. Select the TV system and preset channels using the TUNER PRESET menu on the next page.

Tip

- To stop one touch tuning, press ONE TOUCH TUNING or ■ STOP on the VCR during the setting.

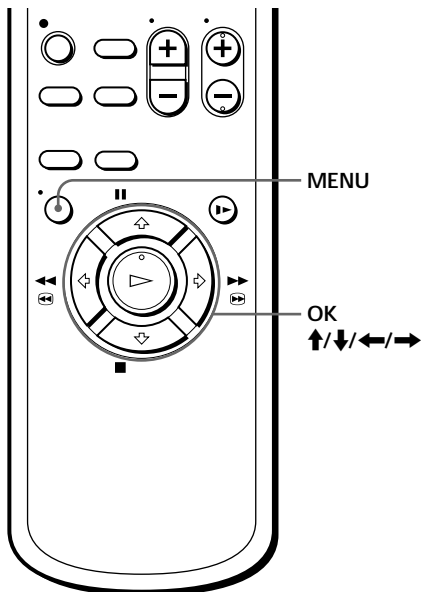
continued

Step 6: Presetting channels (continued)

Presetting all receivable channels automatically

Before you start...

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



•MENU

Press MENU, then press **↑/↓** to move the cursor (**▶**) to TUNER PRESET and press OK.

TUNER PRESET		PROG 1	
SYSTEM	•B/G	D/K	I
NORMAL / CATV	•NORM	CATV	
AUTO PRESET			
▶CHANNEL SET		1	
AFT	•ON	OFF	
FINE TUNING			
SELECT	:[↑↓]		
SET	:[←→]		



Press **↑/↓/←/→** to move the cursor (**▶**) to SYSTEM, then select B/G, D/K or I, 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	
▶SYSTEM	•B/G	D/K	I
NORMAL / CATV	•NORM	CATV	
AUTO PRESET			
CHANNEL SET		1	
AFT	•ON	OFF	
FINE TUNING			
SELECT	:[↑↓]		
SET	:[←→]		



Press **↑/↓/←/→** to move the cursor (**▶**) to NORMAL/CATV, then select NORM.

To preset CATV channels, select CATV.

TUNER PRESET		PROG 1	
▶NORMAL / CATV	•B/G	D/K	I
•NORM	CATV		
AUTO PRESET			
CHANNEL SET		1	
AFT	•ON	OFF	
FINE TUNING			
SELECT	:[↑↓]		
SET	:[←→]		

4



Press **↑/↓** to move the cursor (**▶**) to **AUTO PRESET**, then press **OK**.

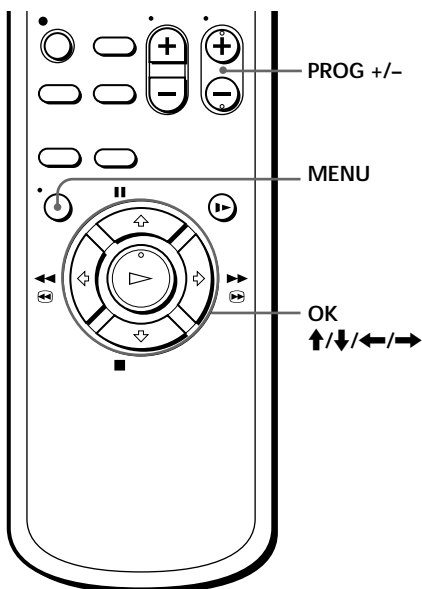
All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.

TUNER PRESET	PROG 1
SYSTEM	•B/G D/K I
NORMAL / CATV	•NORM CATV
▶AUTO PRESET	
CHANNEL SET	1
AFT	•ON OFF
~FINE TUNING~	
~PLEASE WAIT~	

continued

Step 6: Presetting channels (continued)

Presetting channels manually



1 • MENU



Press MENU, then press **↑/↓** to move the cursor (▶) to TUNER PRESET and press OK.

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

2



Press **↑/↓/←/→** to move the cursor (▶) to NORMAL / CATV, then select NORM.
To preset CATV channels, select CATV.

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

3



Press **↑/↓** to move the cursor (▶) to CHANNEL SET.

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

4

•PROG



Press PROG +/- to select the programme position.

Selected programme position

TUNER PRESET	PROG13
SYSTEM	•B/G D/K I
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	21
AFT	•ON OFF
FINE TUNING	
SELECT	: [↑↓]
SET	: [←→]

5



Press → repeatedly until the channel you want is displayed.
Pressing ← goes back to the previous channels.

The channels are scanned in the following order:

TUNER PRESET	PROG14
SYSTEM	•B/G D/K I
NORMAL / CATV	•NORM CATV
AUTO PRESET	
▶CHANNEL SET	35
AFT	•ON OFF
FINE TUNING	
SELECT	: [↑↓]
SET	: [←→]

Channel coverage	System B/G	System D/K	System I
VHF	E2-E12	R1-R12	SA4-SA13
UHF	E21-E69	R21-R69	B21-B69
CATV (TV distribution)	S1-S41, S01-S05	-	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."

6



If the TV sound is distorted or noisy, press ↑/↓/←/→ to move the cursor (▶) to SYSTEM, then select B/G, D/K or I whichever is applicable in your area.

TUNER PRESET	PROG14
▶SYSTEM	•B/G D/K I
NORMAL / CATV	•NORM CATV
AUTO PRESET	
CHANNEL SET	35
AFT	•ON OFF
FINE TUNING	
SELECT	: [↑↓]
SET	: [←→]

7

To allocate another channel to another programme position, repeat steps 4 and 5.

8



Press OK.

continued

Step 6: Presetting channels (continued)

Disabling unwanted programme positions

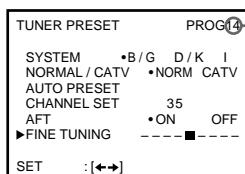
After tuning the TV channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/- buttons.

- 1 In step 5 on page 15, press programme number button “0” twice to display the number “0” beside CHANNEL SET.
- 2 Press OK.

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 number for which you cannot obtain a clear picture.
- 2 Press MENU, then select TUNER PRESET and press OK.
- 3 Select FINE TUNING. The fine tuning meter appears.



Selected programme position

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

Note

- The menu disappears automatically if you do not proceed for more than a few minutes.

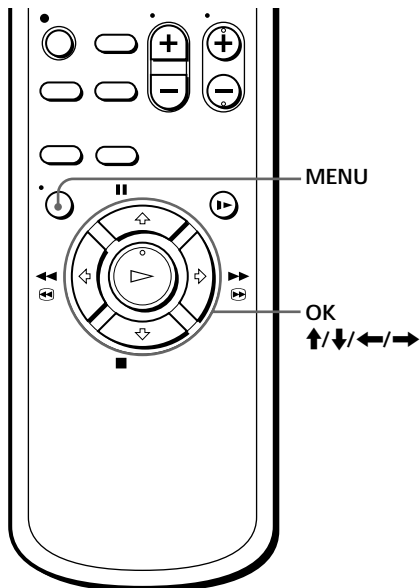
Step 7

Setting the clock

You must set the time and date on the VCR to be able to use the timer recording features properly.

Before you start...

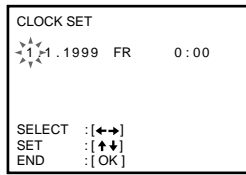
- Turn on the VCR and the TV.
- Set the TV to the video channel.



1



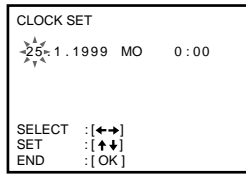
Press MENU, then press **↑/↓** to move the cursor (▶) to CLOCK SET and press OK.



2



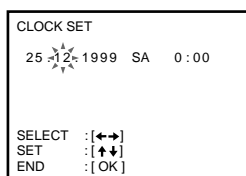
Press **↑/↓** to set the date.
The day of the week is set automatically.



3



Press **→** to flash the month and set the month using **↑/↓**.



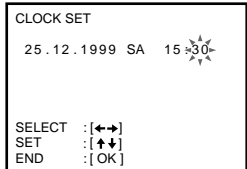
continued

Step 7: Setting the clock (continued)

4



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



5



Press OK to start the clock.

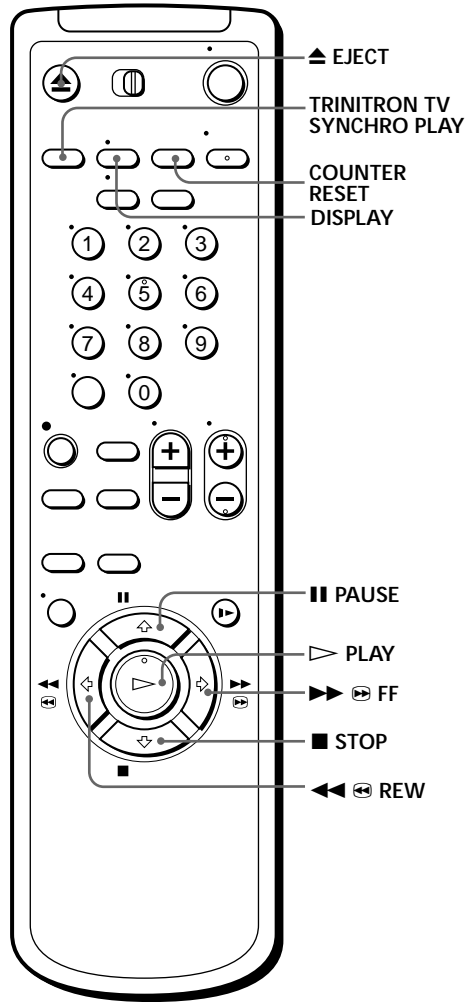
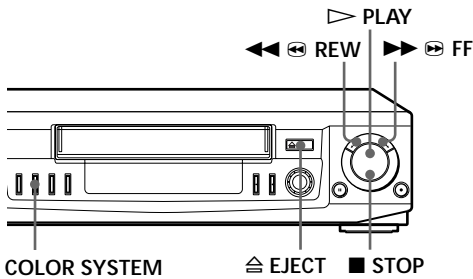
Tip

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

Note

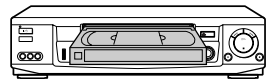
- The menu disappears automatically if you do not proceed for more than a few minutes.

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.



continued

Playing a tape (continued)

3



Press \triangleright 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 \triangleright PLAY
Fast-forward the tape	$\blacktriangleright\blacktriangleright$ FF during stop
Rewind the tape	$\blacktriangleleft\blacktriangleleft$ REW during stop
Eject the tape	\blacktriangle EJECT

To set the colour system

If streaks appear during playback, press COLOR SYSTEM on the VCR to conform to the system that the tape was recorded in. (Normally, the colour system is correctly set whenever the tape is inserted.)

If your tape was recorded in	Press COLOR SYSTEM until the indication below appears in the display window.
PAL	PAL
MESECAM	PAL
NTSC	NTSC

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 "0:00:00." 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 "0:00:00" 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 colour 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.
- Tapes recorded in the LP mode of NTSC system on other VCRs can be played back on this VCR, but the picture quality cannot be guaranteed.
- While setting the menu on the TV screen, you cannot use the ▷ PLAY, ■ PAUSE, ►► ⏪ FF, ◀◀ ⏩ REW or ■ STOP button. These buttons are used for menu operations.

Turning on the VCR and TV, and starting playback automatically (Trinitron TV Synchro Play)

You can only use this function if your TV is made by Sony (Trinitron TV).

How to connect to use this function

Connect the VCR and TV with the audio/video cable (see “To a TV that has audio/video input jacks” on page 6). Be sure to connect the audio/video cable to the VIDEO IN 1 jacks on the TV if the TV has two inputs or more. The TV must be placed where it will respond to the remote commander while you are pointing it at the VCR.

Operation

Make sure that the TV's main power is on.

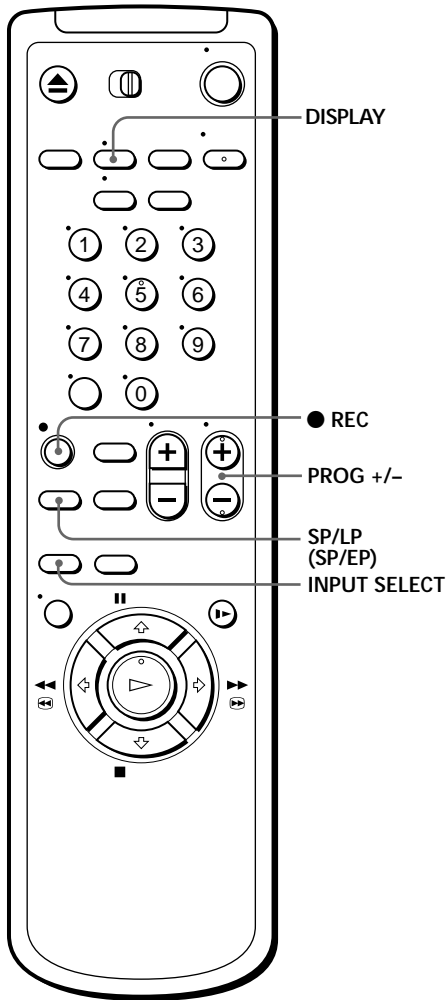
Press TRINITRON TV SYNCHRO PLAY and hold the remote commander in place for about two seconds.

The VCR and TV turn on, and the TV is set to VCR reception. If there is a tape in the VCR, playback starts automatically.

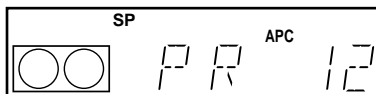
Notes

- If the Trinitron TV Synchro Play function does not work properly:
 - Wait a few moments, and press the button again.
 - Replace both of the batteries with new ones, and press the button again.Note that this function may not operate some Sony TVs because of the remote commander's signal limitations.
- Do not press TRINITRON TV SYNCHRO PLAY while playing back a video tape. If you do so, the TV's input source will momentarily switch to the TV's tuner.

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



continued

Recording TV programmes (continued)

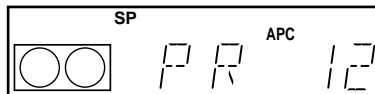
4

SP/LP
(SP/EP)



Press SP/LP (SP/EP) to select the tape speed, SP or LP.

LP (Long Play) provides recording time twice as long as SP (Standard Play), however, SP produces better picture and audio quality.



5

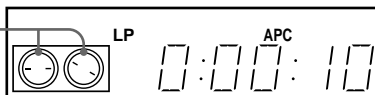
● REC



Press ● REC to start recording.

The recording indicator lights up red in the display window.

Recording indicator



To stop recording

Press ■ STOP.

To check the remaining tape length

Press DISPLAY. The white bar indicates the approximate length of tape remaining.

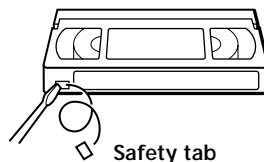


To watch another TV programme while recording

- 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.



Safety tab

To record NTSC colour system programmes

NTSC colour signals can be recorded on this VCR from the LINE-1 IN, LINE-2 IN and LINE-3 IN (SAT IN) jacks only.

To select the line input, press INPUT SELECT or PROG +/- so that "L1", "L2" or "L3" appears in the display window.

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 and sound 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 programme number buttons.
- You can select a video source from the LINE-1 IN, LINE-2 IN or LINE-3 IN (SAT IN) jacks. Press INPUT SELECT or PROG +/- to display "L1", "L2" or "L3" in the display window.
- The display appears on the TV screen indicating information about the tape, but the information will not be recorded on the tape.
- If you do not 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.
- It may take up to one minute for the VCR to calculate and display the remaining tape length after you press DISPLAY.
- The remaining tape length does not appear while playing or recording in NTSC system.
- The VCR marks the tape with an index signal at the point where each recording begins. You can use these index search signals as references to find a specific recording with other Sony VCRs that feature the index search function.

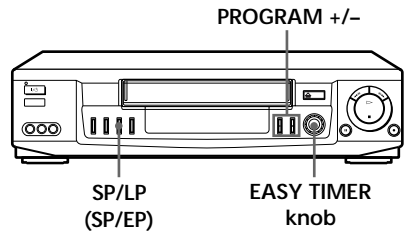
Recording TV programmes using the easy timer

You can record one programme on the same day (within 24 hours) with the easy timer. If the VCR clock has not been set, you can set the clock before setting the timer recording.

Setting the easy timer

Before you start...

- Insert a tape with its safety tab in place. Make sure the tape is longer than the recording time.
- If you want to see the setting on the TV screen, turn on the TV and set it to the video channel.



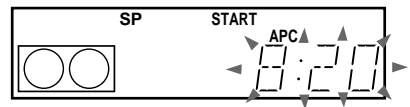
1



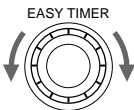
Press the EASY TIMER knob.

The START indicator appears in the display window.

If the clock has not been set, “-:-” appears. Go to step 2 in “Setting or changing the easy clock” on page 28.

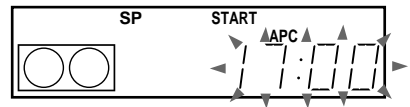


2



Set the recording start time by turning the EASY TIMER knob clockwise or counterclockwise to increase or decrease the time by 15 minutes.

To increase or decrease the time by one minute, press PROGRAM +/-.

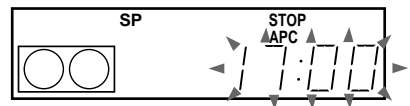


3

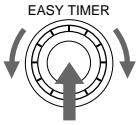


Press the EASY TIMER knob to confirm the start time setting.

The STOP indicator appears.

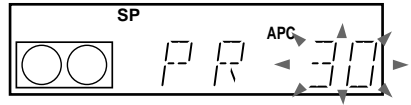


4

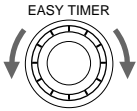


Set the recording stop time in the same way as in step 2, then press the EASY TIMER knob.

A programme number flashes.

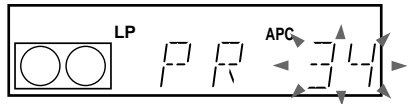
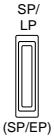


5



Turn the EASY TIMER knob clockwise or counterclockwise to select the programme you want to record.

To select the tape speed, press SP/LP (SP/EP).



6

EASY TIMER



Press the EASY TIMER knob to confirm the setting.

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

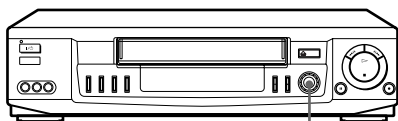


continued

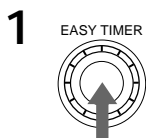
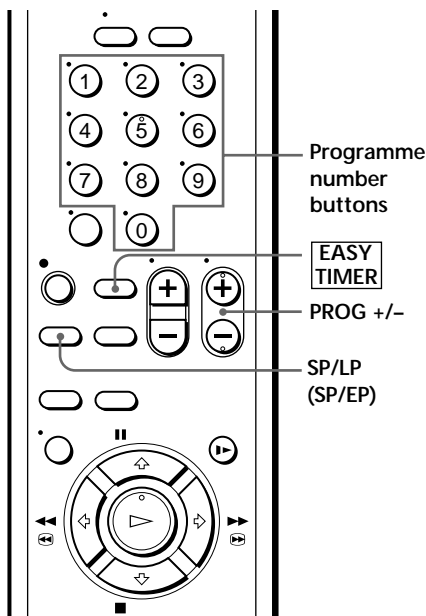
Recording TV programmes using the easy timer (continued)

Setting or changing the easy clock

When “-:-” is displayed in the display window, the VCR clock has not been set. You need to set the clock using the easy clock before setting the timer. You can also change the current time using the easy clock.

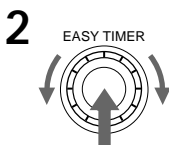
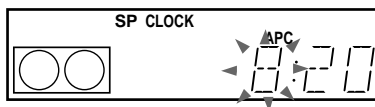


EASY TIMER knob



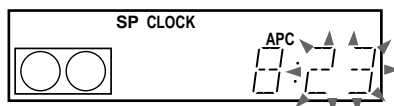
- When “-:-” is displayed in the display window, press EASY TIMER.
- To change the clock setting, press the EASY TIMER knob on the VCR for more than three seconds.

The CLOCK indicator and the current clock setting appear in the display window.



Set the current time using the EASY TIMER knob.

- 1 Turn the EASY TIMER knob clockwise or counterclockwise to enter the current hour.
- 2 Press the EASY TIMER knob to confirm the hour setting.
- 3 Turn the EASY TIMER knob to increase or decrease the minutes setting by a minute.



3

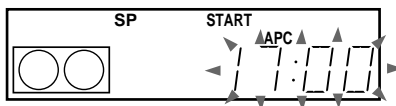
EASY TIMER



Press the EASY TIMER knob to confirm the clock setting.

The VCR enters the timer recording setting mode.

To continue the easy timer setting, go to step 2 in “Setting the easy timer” on page 26.



To quit the easy timer setting mode without changing any settings, press the EASY TIMER knob repeatedly until the ☺ indicator appears in the display window.

To set the timer and clock setting using the remote commander

You can also use the remote commander to set the easy timer and easy clock. The operations on the VCR and the remote commander correspond as follows:

To	Do this on the VCR	Do this on the remote commander
Confirm the setting and go to the next setting	Press EASY TIMER knob	Press EASY TIMER
Change the time by 15 minutes (in START/STOP mode)	Turn EASY TIMER knob or hold PROGRAM +/- down	Hold PROG +/- down
Change the time by one minute (in START/STOP mode)	Press PROGRAM +/-	Press PROG +/-
Select the programme	Turn EASY TIMER knob or press PROGRAM +/- or INPUT SELECT	Press PROG +/- or INPUT SELECT
Change the hour/minute by one hour/minute (in CLOCK mode)	Turn EASY TIMER knob or press PROGRAM +/-	Press PROG +/-

You can also use the programme number buttons to set the clock, start and stop times, and the programme you want to record. Just press the programme number buttons to enter the hours and minutes. For example:

- To set the clock to “8:20”, press 0, 8, **EASY TIMER**, 2, 0 and **EASY TIMER** in sequence.
- To set the start or stop time to “8:20”, press 0, 8, 2, 0 and **EASY TIMER** in sequence.

If you make a mistake, re-enter the correct digits before pressing **EASY TIMER**.

continued

Recording TV programmes using the easy timer (continued)

To stop recording

To stop the VCR while recording, press ■ STOP.

To check or change the timer setting

Press EASY TIMER knob repeatedly until the setting you want to check or change flashes. Then re-enter the new setting, if necessary. If you do not want to change any of the settings, press the EASY TIMER knob repeatedly until the ☺ indicator appears in the display window.

You can also change the timer setting using the TIMER SET/CHECK menu. For details, see page 36.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press ON/STANDBY. The ☺ indicator turns off and the VCR switches on. Remember to press ON/STANDBY 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 programme.

Tips

- To record from a source connected to LINE-1 IN, LINE-2 IN or LINE-3 IN (SAT IN) jacks, press INPUT SELECT or PROG +/- or turn the EASY TIMER knob to display "L1", "L2" or "L3" in the display window.
- To record NTSC signals, set the tape speed to SP or EP. To set to the EP mode, display "LP" in the display window.
- To cancel the easy timer setting, press CLEAR on the remote commander or press PROGRAM + and - on the VCR at the same time during any of the easy timer setting.

Notes

- You cannot set the easy timer if eight programmes have already been set.
- You can set the timer for only one programme using the easy timer. If you want to set the timer for other programmes, use the TIMER SET/CHECK menu. For details, see page 31.
- You cannot set the date using the easy timer. Set the date using the CLOCK SET menu if you want to set the timer with the menu. For details, see page 17.
- The ☺ indicator flashes in the display window when you set the timer with no tape inserted.

Setting the timer manually (continued)

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

To record from a source connected to the LINE-1 IN, LINE-2 IN or LINE-3 IN (SAT IN) jacks; press INPUT SELECT or PROG +/- to display “L1”, “L2” or “L3” in the “PROG” position.

3



Press **→** to confirm the setting.

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

4




Press OK.

5

• ON/
STANDBY



Press ON/STANDBY to turn off the VCR.

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

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

To stop recording

To stop the VCR while recording, press **■** STOP.

Daily/weekly recording


In step 2 above, press **↓** to select the recording pattern. Each time you press **↓**, the indication changes as shown below. Press **↑** to change the indication in reverse order.

the current date → SU-SA (Sunday to Saturday) → MO-SA (Monday to Saturday) → MO-FR (Monday to Friday) → EVERY SA → EVERY MO → EVERY SU → 1 month later → (dates count down) → the current date

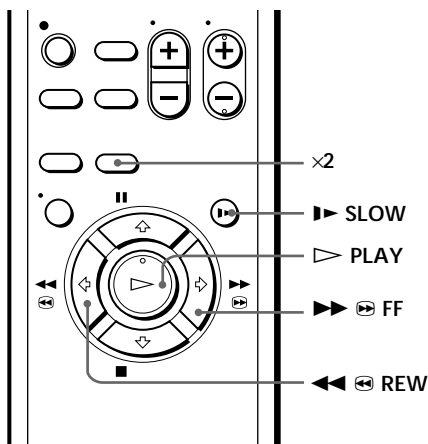
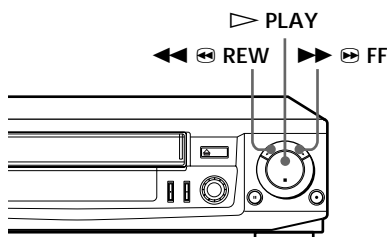
Tips

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

Note

- The  indicator flashes in the display window when you press ON/STANDBY with no tape inserted.

Playing/searching at various speeds



Playback options	Operation
View the picture during fast-forward or rewind	During fast-forward, hold ►►► FF down. During rewind, hold ◀◀◀ REW down.
Play at high speed	<ul style="list-style-type: none"> • During playback, press ►►► FF or ◀◀◀ REW on the remote commander. • During playback, hold ►►► FF or ◀◀◀ REW down. When you release the button, normal playback resumes.
Play at twice the normal speed	During playback or pause, press ×2.
Play in slow motion	During playback or pause, press ► SLOW.
Play frame by frame	During pause, press ►►► FF or ◀◀◀ REW. Hold the button down to play one frame each second.
Rewind and start play	During stop, press ► PLAY on the VCR while holding ◀◀◀ REW down on the VCR.

To resume normal playback

Press ► PLAY.

Tip

- Adjust the picture using TRACKING +/- on the VCR if:
 - streaks appear while playing in slow motion.
 - the picture shakes while pausing.

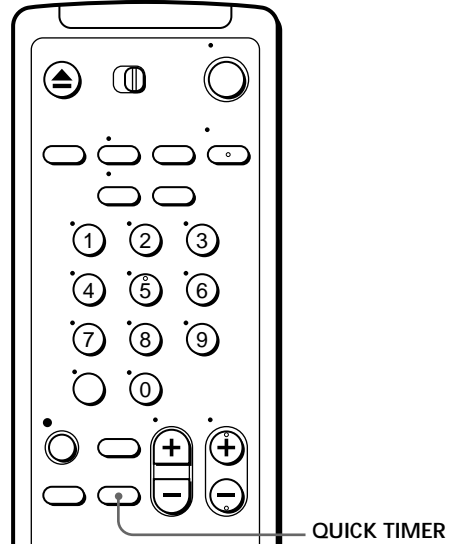
To set tracking to the centre position, press both buttons (+/-) at the same time.

Notes

- The playback sound is muted during these operations.
- In LP or EP mode, noise may appear or there may be no colour.
- The picture may have snow when playing at high speed in reverse.
- On screen symbols may shake while playing or searching at various speeds.

Recording TV programmes using the quick timer

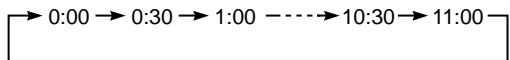
After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



- 1 While recording, press QUICK TIMER once.
The ⌚ indicator appears in the display window.



- 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.

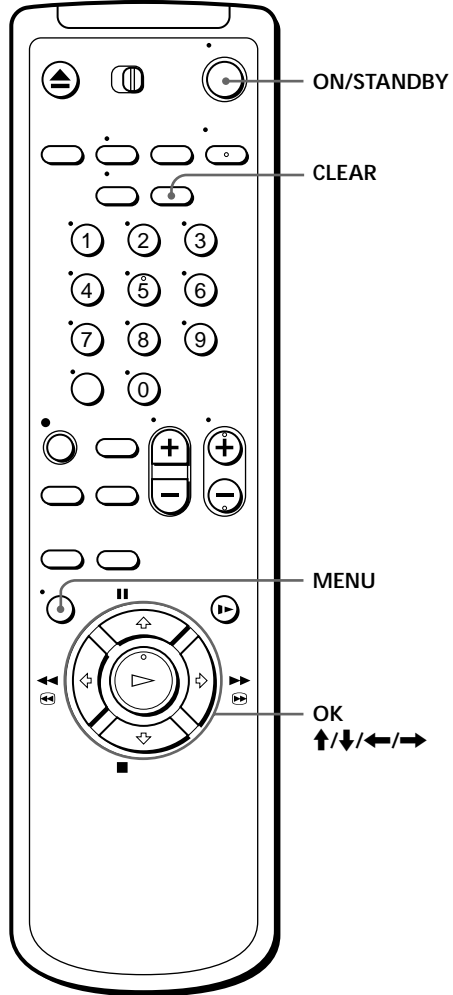
Using the quick timer during stop mode

You can set the quick timer and start recording during stop mode by pressing QUICK TIMER. To set the channel, you can use the PROG +/- or INPUT SELECT buttons. Press QUICK TIMER repeatedly to set the recording duration. The recording will start automatically.

Checking/ changing/ cancelling timer settings

Before you start...

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



- 1 Press ON/STANDBY to turn on the VCR.
- 2 Press MENU, then 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 OK, then turn off the VCR to return to recording standby.

TIMER SET / CHECK	25.12 SA
DATE	START STOP PROG
▶ 6.1 TH	7:00 8:00 6 SP
8.1 SA	21:00 0:00 50 LP
MO-SA	0:12 13:00 27 LP
EVERY SU	23:00 0:00 L2 SP
---	---
---	---
---	---
---	---
---	---

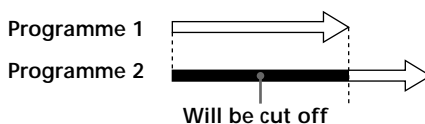
continued

Checking/changing/cancelling timer settings (continued)

- 3** Press **↑/↓** to select the setting you want to change or cancel:
- To change the setting, press **←/→** to flash the item you want to change, and press **↑/↓** to re-set it. Then, press **→** repeatedly until the cursor (**▶**) appears at the beginning of the line.
 - To cancel the setting, press **CLEAR**.
- 4** Press **OK**.
- If any timer 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 and bilingual programmes

The VCR can record stereo and bilingual programmes only through the line input. When a stereo or bilingual sound is input through the line input, “STEREO” appears on the screen and the display window. You cannot select the sound while recording.

Selecting the sound while playing

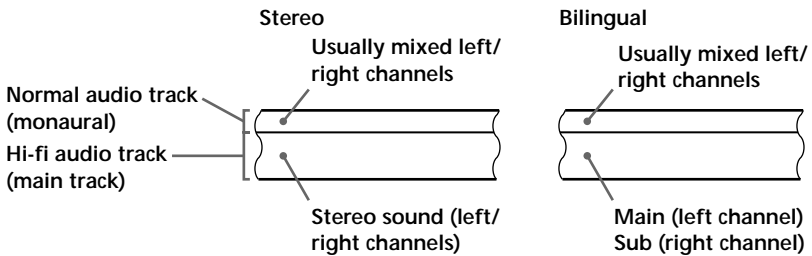
Press AUDIO MONITOR to select the sound you want.

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 sounds 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

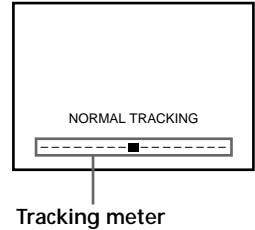
- To listen to playback sounds in stereo, you must use the AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the SET UP MENU is set to OFF.

Adjusting the picture

Adjusting the tracking

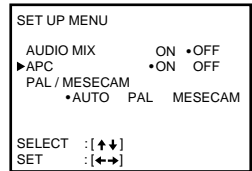
Although the VCR automatically adjusts the tracking when playing a tape (the  indicator flashes in the display window, then goes off), distortion may occur if the tape was recorded in poor condition. If so, manually adjust the tracking.

Press the TRACKING +/- buttons on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons (the  indicator lights up). To resume automatic tracking adjustment, eject the tape and reinsert it.



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

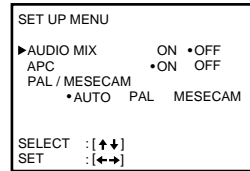
Press MENU and select SET UP MENU, then set APC to OFF. The APC indicator in the display window goes off.

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 press  PAUSE before the APC indicator stops flashing, the APC function is cancelled.

Changing menu options

1 Press MENU, then select SET UP MENU.



2 Press ↑/↓ to select the option to change, then press ←/→ to change the setting.

3 Press OK to return to the original screen.

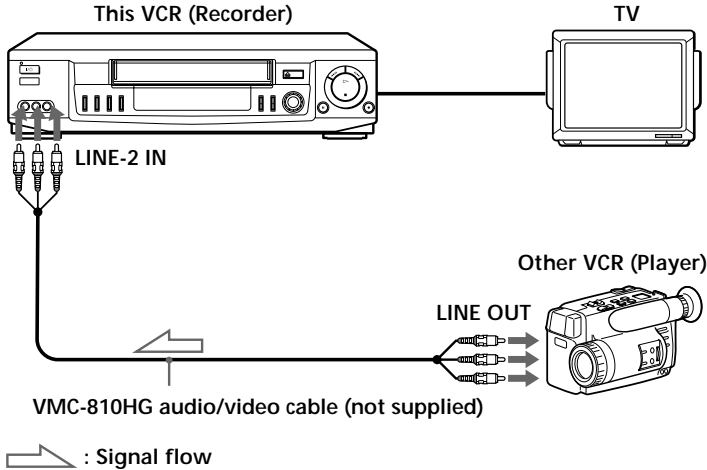
Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
AUDIO MIX	ON to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. OFF to listen to hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button.
APC	ON to switch on the APC (Adaptive Picture Control) function and improve picture quality. OFF to switch off APC.
PAL/MESECAM	AUTO to have the VCR automatically select the colour system for recording and playback. If the picture has no colour or unusual colours, set to PAL or MESECAM according to your local colour system.

Editing with another VCR or stereo system

How to connect to record on this VCR



How to connect to a stereo system

Connect LINE-2 IN AUDIO on this VCR to the audio output jacks on the stereo system, using the RK-C510KS audio cable (not supplied).

Notes

- Make sure you connect the plugs to jacks of the same colour.
- 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.

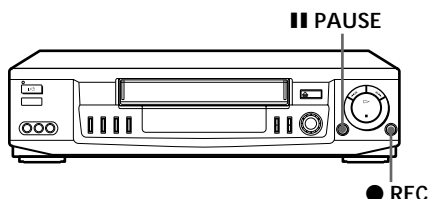
Tips

- If the other VCR is a monaural type and connected to this VCR's LINE-2 IN jacks, connect the audio plug to the AUDIO L (white) jack. The sound is recorded on both right and left channels. When connecting to the AUDIO R (red) jack, the sound is recorded only on the right channel.
- You can also use the LINE-1 IN or LINE-3 IN (SAT IN) jacks instead. If the other VCR is a monaural type, the sound is recorded only on the channel whose jack is connected to the audio plug. To record on both right and left channels, connect the audio plugs to the AUDIO R/L jacks using a VMC-910HG audio/video cable (not supplied).

Operation (when recording on this VCR)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/- to display “L1”, “L2” or “L3” in the display window.
- Press SP/LP (SP/EP) 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.

Note

- If you start recording following the procedure above, the VCR will not 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 analyses 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"> • Connect the mains lead to mains securely.
	The power is turned on but the VCR does not operate.	<ul style="list-style-type: none"> • Moisture condensation occurs. Turn the power off, unplug the mains lead and leave the VCR to dry for over one hour.
Clock	The clock has stopped and “-:-” lights in the display window.	<ul style="list-style-type: none"> • The clock stops if the VCR is disconnected from the mains for more than eight hours (SLV-ED60PS only) or 24 hours (SLV-ED60ME/MJ/SG only). Reset the clock (and timer).
Playback	The playback picture does not appear on the TV screen.	<ul style="list-style-type: none"> • Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.
	The playback picture has no colour or unusual colours.	<ul style="list-style-type: none"> • Set the PAL/MESECAM option in the SET UP MENU according to your local colour system.
	The picture is not clear.	<ul style="list-style-type: none"> • Adjust the tracking with the TRACKING +/- buttons. • Make sure the colour system is set to the system that the tape was recorded in. • The video heads are dirty (see below). Clean the video heads using the Sony T-25CLD, T-25CLW or E-25CLDR video head cleaning cassette. If these cleaning cassettes are 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 liquid type cleaning cassette other than Sony's, as they may damage the video heads. • The video heads may have to be replaced. Consult your local Sony service facility for more information.
	The picture rolls vertically during picture search.	<ul style="list-style-type: none"> • Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	<ul style="list-style-type: none"> • The tape is defective. • If you made A/V connections, check the audio cable connection.
	The sound is unstable or has an echo.	<ul style="list-style-type: none"> • 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.

Symptoms caused by contaminated video heads

• Normal picture



• Rough picture



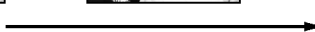
• Unclear picture



• No picture (or black & white screen appears)



initial
contamination



terminal

	Symptom	Remedy
Recording	No TV programmes appear on the TV screen.	<ul style="list-style-type: none"> • Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.
	TV reception is poor.	<ul style="list-style-type: none"> • Adjust the TV aerial. • Make sure SYSTEM (B/G, D/K or I) in the TUNER PRESET menu is set to the system in your area.
	The recorded picture has no colour or unusual colours.	<ul style="list-style-type: none"> • Set the PAL/MESECAM option in the SET UP MENU according to your local colour system.
	The tape starts playing as soon as it is inserted.	<ul style="list-style-type: none"> • The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape is ejected when you press ● REC.	<ul style="list-style-type: none"> • Check that the safety tab has not been removed.
Timer recording	Nothing happens when you press ● REC.	<ul style="list-style-type: none"> • Make sure the tape is not at its end. • Select the correct source with the INPUT SELECT or PROG +/- buttons. Select a programme position when recording TV programmes; select "L1", "L2" or "L3" when recording from other equipment.
	The timer does not operate.	<ul style="list-style-type: none"> • Check that the clock is set. • Make sure a tape has been inserted. • Check that the safety tab has not been removed. • Make sure the tape is not at its end. • Make sure a programme has been set for timer recording. • Make sure your timer settings have not already passed the current time. • The clock stops if the VCR is disconnected from the mains for more than eight hours (SLV-ED60PS only) or 24 hours (SLV-ED60ME/MJ/SG only). Reset the clock and timer.
Others	A tape cannot be inserted.	<ul style="list-style-type: none"> • Check that a tape is not already in the tape compartment.
	The remote commander does not function.	<ul style="list-style-type: none"> • Make sure you are pointing the remote commander at the remote sensor on the VCR. • Replace all the batteries in the remote commander with new ones if they are weak. • Make sure the [TV]/[VIDEO] remote control switch is set correctly.
	The tracking meter does not appear on the screen.	<ul style="list-style-type: none"> • The recording condition of the tape is very poor and tracking cannot be adjusted.
	The VCR needs to be cleaned.	<ul style="list-style-type: none"> • Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene.

continued

Troubleshooting (continued)

Sapphire tape cleaner

The unit incorporates a sapphire tape cleaner which cleans a video tape when it is loaded. This cleaner can prevent the video heads from contamination by removing dust or mold from a tape with the sapphire edge.

Specifications

System

Colour system

PAL, MESECAM, NTSC 3.58, NTSC 4.43

TV system

B/G, D/K, I

Channel coverage

B/G: VHF E2 to E12/UHF E21 to E69/
CATV S01 to S05, S1 to S41

D/K: VHF R1 to R12/UHF R21 to R69

I: VHF SA4 to SA13/UHF B21 to B69/
CATV S01 to S05, S1 to S41

RF output signal

UHF channels 21 to 69 (B/G, D/K, I)

Aerial out

75-ohm asymmetrical aerial socket

Inputs and outputs

LINE-1 IN, LINE-2 IN and LINE-3 IN (SAT IN)

VIDEO IN, phono jack (1 each)

Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative

AUDIO IN, phono jack (2 each)

Input level: 327 mVrms

Input impedance: more than 47 kilohms

LINE-1 OUT

VIDEO OUT, phono jack (1)

Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative

AUDIO OUT, phono jack (2)

Standard output: 327 mVrms

Load impedance: 47 kilohms

Output impedance: less than 10 kilohms

LINE-2 OUT (AUDIO)

AUDIO OUT, phono jack (2)

Standard output: 327 mVrms

Load impedance: 47 kilohms

Output impedance: less than 10 kilohms

General

Power requirements

110 – 240 V AC, 50/60 Hz

Power consumption

18 W

Operating temperature

5°C to 40°C

Storage temperature

-20°C to 60°C

Dimensions

Approx. 430 × 100 × 295 mm (w/h/d)

including projecting parts and controls

Mass

Approx. 4.5 kg

Supplied accessories

Remote commander (1)

R6 (size AA) batteries (2)

Aerial cable (1)

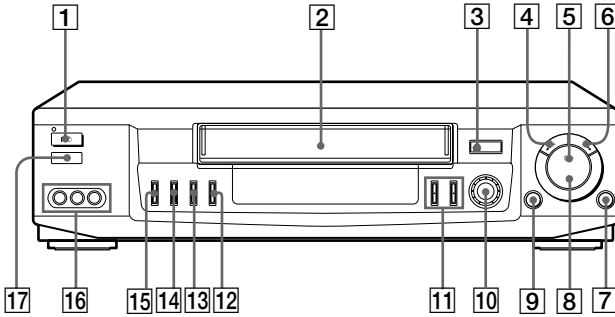
Plug adaptor (1) (SLV-ED60ME/MJ only)

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

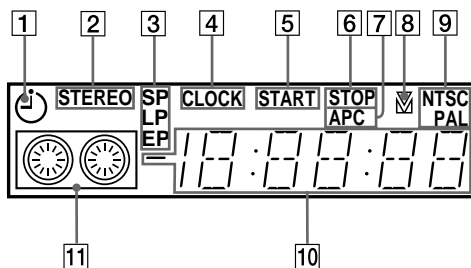


- | | |
|--|---|
| 1 I/⏻ ON/STANDBY switch/
indicator (8) | 10 EASY TIMER knob (26) |
| 2 Tape compartment | 11 PROGRAM/TRACKING +/-
buttons (8, 38) |
| 3 ≡ EJECT button (20) | 12 ONE TOUCH TUNING/
RF (Radio Frequency) CHANNEL
button (8, 11) |
| 4 ◀◀ ⏮ REW (rewind) button (20, 33) | 13 SP (Standard Play)/LP (Long Play)/
EP (Extra Play) button (27) |
| 5 ▷▶ ⏭ PLAY button (20) | 14 COLOR SYSTEM button (20) |
| 6 ▶▶ ⏭ FF (fast-forward) button
(20, 33) | 15 INPUT SELECT button (25) |
| 7 ● REC (record) button (24) | 16 LINE-2 IN VIDEO/AUDIO L/R
jacks (40) |
| 8 ■ STOP button (20) | 17 Remote sensor (5) |
| 9 PAUSE button (20) | |

continued

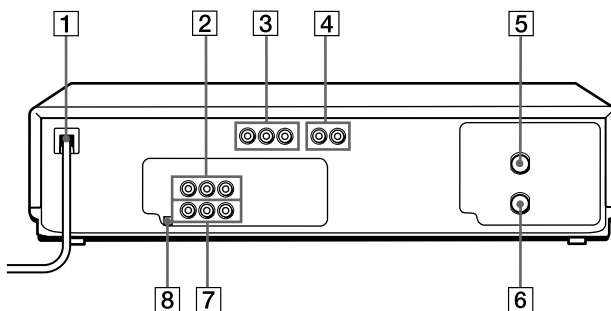
Index to parts and controls (continued)

Display window



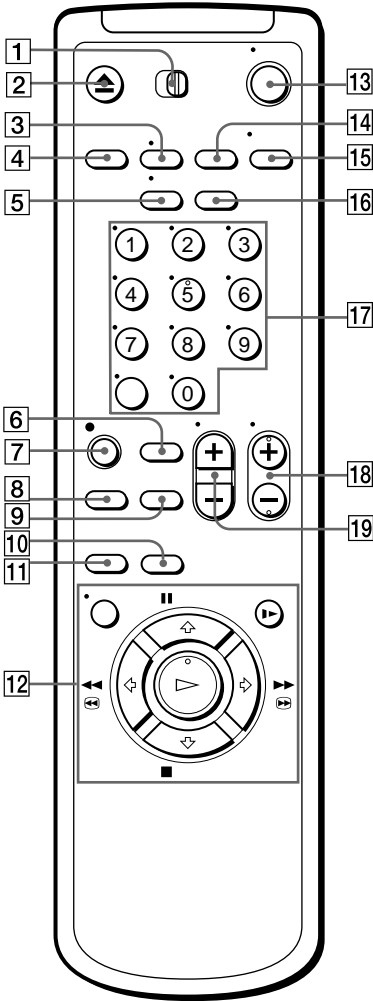
- | | |
|---|--|
| 1 Timer indicator (27) | 8 Tracking indicator (38) |
| 2 STEREO indicator (37) | 9 Colour system indicator (20) |
| 3 Tape speed indicator (24) | 10 Time counter/clock/line/
programme/TV system indicator
(8, 21, 23, 27, 41) |
| 4 CLOCK indicator (28) | 11 Tape/recording indicator (24) |
| 5 START indicator (26) | |
| 6 STOP indicator (26) | |
| 7 APC (Adaptive Picture Control)
indicator (38) | |

Rear panel



- | | |
|---|--|
| 1 Mains lead (6) | 5 AERIAL IN connector (6) |
| 2 LINE-1 IN AUDIO R/L/VIDEO jacks
(40) | 6 AERIAL OUT connector (6) |
| 3 LINE-3 IN (SAT IN) AUDIO R/L/
VIDEO jacks (7) | 7 LINE-1 OUT AUDIO R/L/VIDEO
jacks (6) |
| 4 LINE-2 OUT (AUDIO) AUDIO R/L
jacks (7) | 8 NTSC PB (playback) switch (20) |

Remote commander



- 1 **TV** / **VIDEO** remote control switch (5)
- 2 **▲** EJECT button (20)
- 3 **DISPLAY** button (24)
- 4 **TRINITRON TV SYNCHRO PLAY** button (22)
- 5 **TV/VIDEO** button (*for TV*) (5)
- 6 **EASY TIMER** button (29)
- 7 ● **REC** button (24)
- 8 **SP** (Standard Play)/**LP** (Long Play)/**EP** (Extra Play) button (24)
- 9 **QUICK TIMER** button (34)
- 10 **×2** button (33)
- 11 **INPUT SELECT** button (25, 32)
- 12 **Tape/menu operation buttons**
 - MENU** button (10, 39)
 - || PAUSE/▲** button (20)
 - STOP/▼** button (20)
 - ◀◀** **REW** (rewind)/**←** button (20, 33)
 - ▶▶** **FF** (fast-forward)/**→** button (20, 33)
 - ▷** **PLAY/OK** button (20)
 - ▶** **SLOW** button (33)
- 13 **ON/STANDBY** button (32)
- 14 **COUNTER RESET** buttons (21)
- 15 **AUDIO MONITOR** button (37)
- 16 **CLEAR** button (36)
- 17 **Programme number /-/--** (ten's digit) buttons (29)
- 18 **PROG** (programme) **+/-** buttons (23)
- 19 **VOL** (volume) **+/-** buttons (*for TV*)

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