



SONY[®]

3-065-583-E1 (1)

Video Cassette Recorder

Operating Instructions



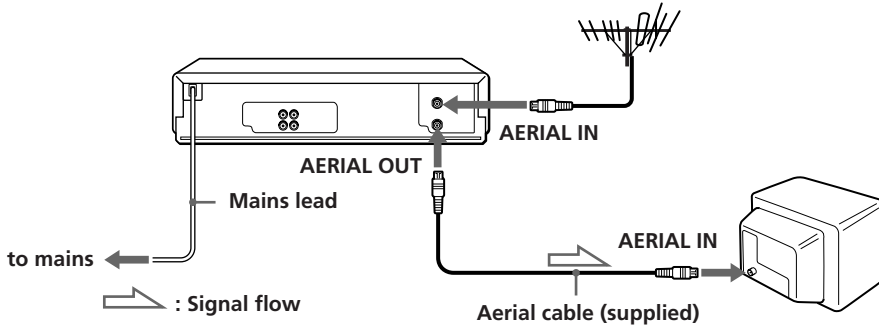
SLV-ED313MJ/SG

© 2001 Sony Corporation

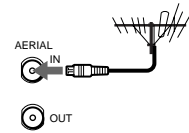




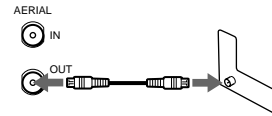
Connecting the VCR



- 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.

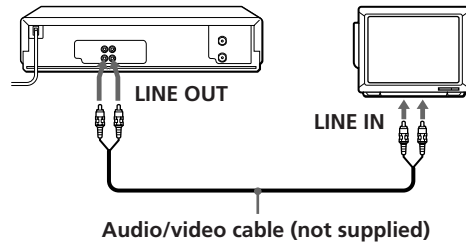


- 3 Connect the mains lead to the mains.

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.



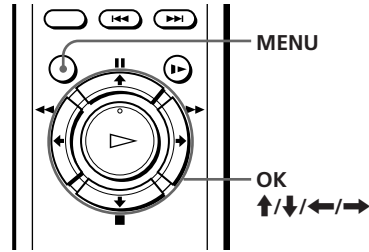


Setting the clock

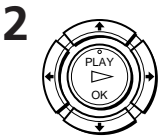
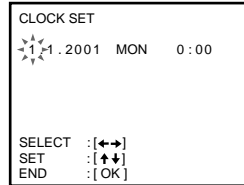
You must set the time and date on the VCR to be able to use the timer recording features properly.

Before you start...

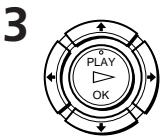
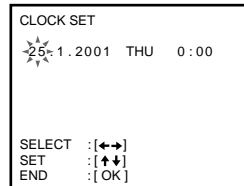
- Turn on the VCR and the TV.
- Set the TV to the video channel.



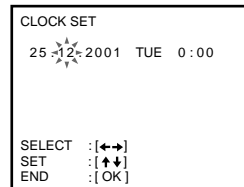
Press MENU, then press ↑/↓ to move the cursor (▶) to CLOCK SET and press OK.



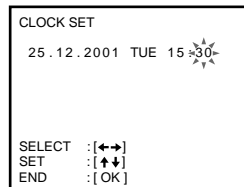
Press ↑/↓ to set the date.
The day of the week is set automatically.



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



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



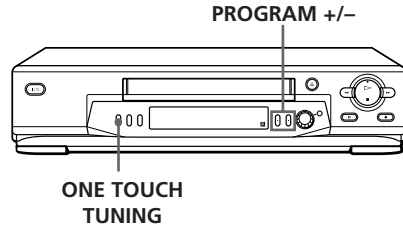
Press OK to start the clock.



Presetting channels

First, we recommend that you preset the receivable channels in your area using the One Touch Tuning function or AUTO PRESET in the TUNER PRESET menu. Then, if some channels cannot 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 the One Touch Tuning function



Press and hold ONE TOUCH TUNING on the VCR for more than three seconds.

The VCR starts presetting the channels.



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 system. Select the correct TV system and preset channels using the TUNER PRESET menu as shown on the next page.

Tip

- To stop the One Touch Tuning function, press ONE TOUCH TUNING or ■ STOP on the VCR during the setting.



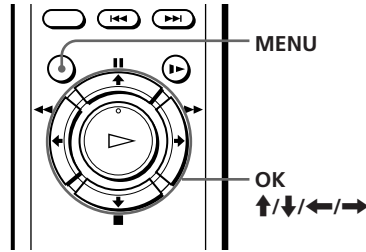


Presetting all receivable channels automatically

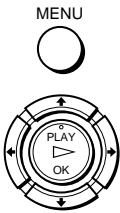
This VCR is capable of receiving B/G, D/K and I system channels. For receivable channel details, see page 7.

Before you start...

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



- 1** Press MENU, then press \uparrow/\downarrow to move the cursor (\blacktriangleright) 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	: [\uparrow/\downarrow]
SET	: [\leftarrow/\rightarrow]

- 2** Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor (\blacktriangleright) 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	: [\uparrow/\downarrow]
SET	: [\leftarrow/\rightarrow]

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



To preset CATV channels, select CATV.

TUNER PRESET	PROG 1
SYSTEM	•B/G D/K I
▶NORMAL / CATV	•NORM CATV
AUTO PRESET	
CHANNEL SET	1
AFT	•ON OFF
FINE TUNING	
SELECT	: [\uparrow/\downarrow]
SET	: [\leftarrow/\rightarrow]

- 4** Press \uparrow/\downarrow to move the cursor (\blacktriangleright) 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.

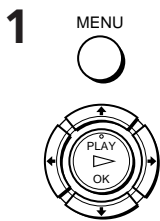
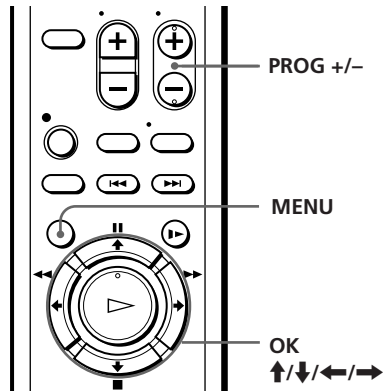
TUNER PRESET	PROG 1
SYSTEM	•B/G D/K I
NORMAL / CATV	•NORM CATV
▶AUTO PRESET	
CHANNEL SET	1
AFT	•ON OFF
FINE TUNING	
-PLEASE WAIT-	

continued



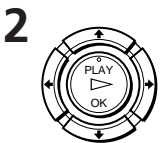
Presetting channels (continued)

Presetting channels manually



1 Press MENU, then press \uparrow/\downarrow to move the cursor (\blacktriangleright) 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	: [$\uparrow\downarrow$]
SET	: [$\leftarrow\rightarrow$]



2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor (\blacktriangleright) 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	: [$\uparrow\downarrow$]
SET	: [$\leftarrow\rightarrow$]



3 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) 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	: [$\uparrow\downarrow$]
SET	: [$\leftarrow\rightarrow$]



4 Press PROG +/- to select the programme position.

Selected programme position

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





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.

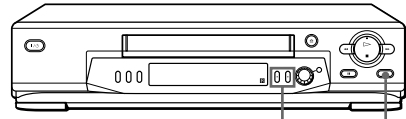
Disabling unwanted programme positions

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

- 1 In step 5 above, press programme number button "0" twice to display the number "0" beside CHANNEL SET.
- 2 Press OK.

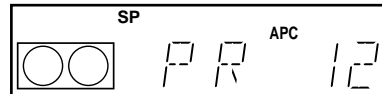
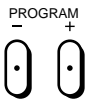


Recording TV programmes

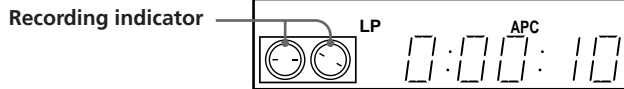


PROGRAM +/- ● REC

- 1 Turn on your TV and set it to the video channel.
- 2 Insert a tape with its safety tab in place.
- 3 Press PROGRAM +/- to select the programme position you want to record.



- 4 Press ● REC to start recording. The recording indicator lights up red in the display window.



To stop recording

Press ■ STOP.

To check the remaining tape length

Press DISPLAY on the remote commander. 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 the tape again, cover the tab hole with adhesive tape.



Safety tab





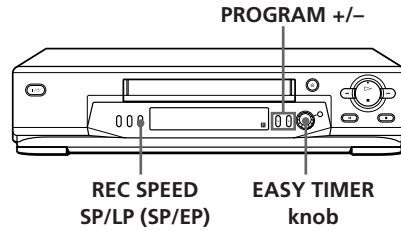
Recording TV programmes using the Easy Timer function


The Easy Timer function allows you to make a timer recording of a programme without turning on your TV. Set the recording timer to record only one programme that will be broadcast within the next 24 hours using the EASY TIMER knob. If the VCR clock has not been set, you can also set the clock before setting the timer recording.

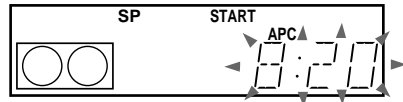
Setting the Easy Timer


Before you start...

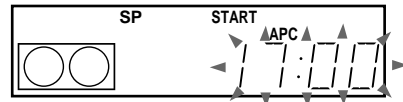
- Insert a tape with its safety tab in place. Make sure the tape is longer than the recording time.




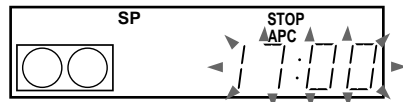
- 1** **EASY TIMER**
- 
- Push the EASY TIMER knob.
The START indicator appears in the display window.
If the clock has not been set, “--:--” appears. Go to step 2 in “Setting or changing the Easy Clock” on page 11.



- 2** **EASY TIMER**
- 
- 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** **EASY TIMER**
- 
- Push the EASY TIMER knob to confirm the start time setting.
The STOP indicator appears.



continued

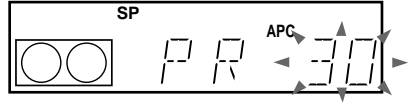


Recording TV programmes using the Easy Timer function (continued)

- 4** **EASY TIMER** Set the recording stop time in the same way as in step 2, then push the EASY TIMER knob.



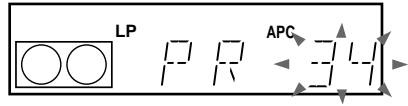
A programme number flashes.



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




To select the tape speed, press REC SPEED.



- 6** **EASY TIMER** Push the EASY TIMER knob to confirm the setting.



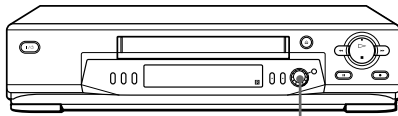
The  indicator appears in the display window and the VCR stands by for recording.



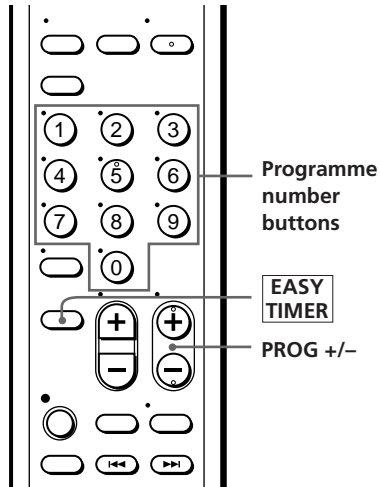


Setting or changing the Easy Clock

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



EASY TIMER knob

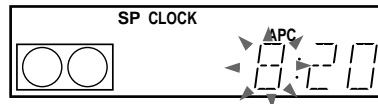


1

EASY TIMER



- When “-:-” is displayed in the display window, push EASY TIMER.
 - To change the clock setting, push and hold 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.



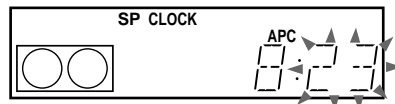
2

EASY TIMER



Set the current time using the EASY TIMER knob.

- 1 Turn the EASY TIMER knob clockwise or counterclockwise to enter the current hour.
- 2 Push 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 at a time.



continued





Recording TV programmes using the Easy Timer function (continued)

3

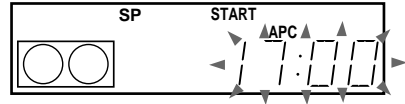
EASY TIMER



Push the EASY TIMER knob to finish setting the clock.

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 9.



To quit the Easy Timer setting mode without changing any settings, push 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	Push the EASY TIMER knob	Press EASY TIMER
Change the time by 15 minutes (in START/STOP mode)	Turn the 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 the EASY TIMER knob or press PROGRAM +/-	Press PROG +/- or INPUT SELECT
Change the hour/minute by one hour/minute (in CLOCK mode)	Turn the 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**.





To stop recording

To stop the VCR while recording, press ■ STOP.

To check or change the timer setting

Push 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, push 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 40 in the English Operating Instructions.

To cancel the timer setting

To cancel the Easy Timer setting while entering a setting, press CLEAR on the remote commander or press PROGRAM + and – on the VCR at the same time.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press I/⏻. The ⌚ indicator turns off and the VCR switches on. Remember to press I/⏻ to reset the VCR to the timer recording standby mode 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.

To watch the recorded programme right after recording with the Easy Timer

The SEARCH MODE indicator starts flashing when the VCR finishes the Easy Timer recording. To watch the recorded programme, push the EASY TIMER knob. The VCR turns on, starts searching, then automatically starts playback from the beginning of the recording. For details, see page 32 in the English Operating Instructions.

continued



Recording TV programmes using the Easy Timer function (continued)

Tips

- To record from a source connected to the LINE-1 IN jacks, press INPUT SELECT or PROG +/- or turn the EASY TIMER knob to display "L" in the display window.
- To record NTSC signals, set the tape speed to SP or EP. To record in the EP mode, set the tape speed to "LP" in the display window.

Notes

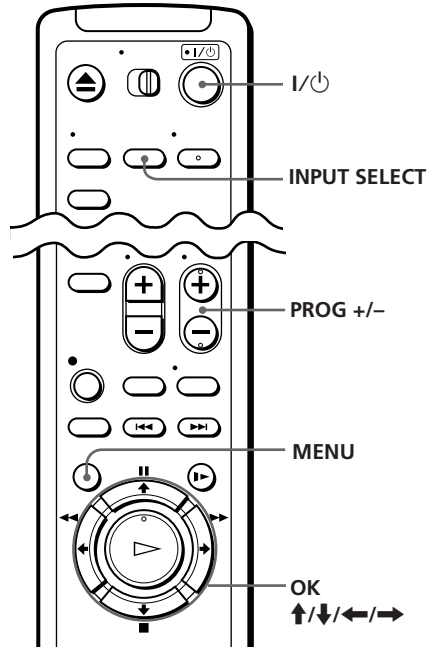
- You cannot set the Easy Timer if eight programmes have already been set.
- You can set the timer for only one programme using the Easy Timer function. If you want to set the timer for other programmes, use the TIMER SET/CHECK menu. For details, see the next page.
- You cannot set the date using the Easy Timer function. Set the date using the CLOCK SET menu if you want to set the timer with the menu. For details, see page 3.
- The ⌚ indicator flashes in the display window when you complete the setting with no tape inserted.

Setting the timer manually

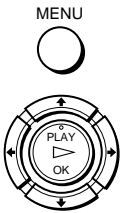
You can preset up to eight programmes at a time.

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 OK.

TIMER SET / CHECK DATE	START	25 . 12 TUE	STOP	PROG
▶---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---

2



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

- 1 Press → to select each item in turn.
 - 2 Press ↑/↓ to set each item.
- To correct a setting, press ← to return to that setting and reset it.

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

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" next page.

To record from a source connected to the LINE-1 IN jacks; press INPUT SELECT or PROG +/- to display "L" in the "PROG" position.

continued



Setting the timer manually (continued)

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



Press I/⏻ 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 on page 15, 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 → SUN-SAT (Sunday to Saturday) → MON-SAT (Monday to Saturday) → MON-FRI (Monday to Friday) → EVERY SAT → EVERY MON → EVERY SUN → 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 the REC SPEED button.
- To record NTSC signals, set the tape speed to SP or EP. To record in the EP mode, set the tape speed to "LP".

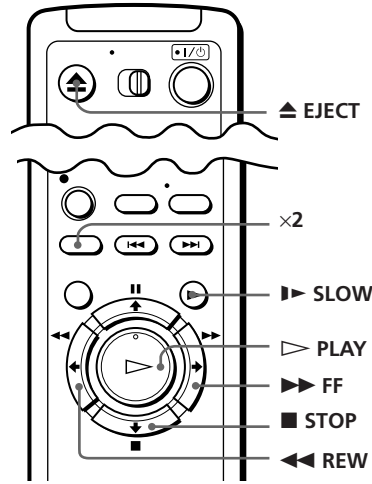
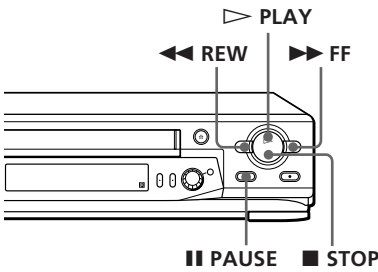
Note

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





Playing/searching at various speeds



Playback options	Operation
Play a tape	Press ▶ PLAY.
Stop play	Press ■ STOP.
Pause play	Press ▬▬ PAUSE.
Resume play after pause	Press ▬▬ PAUSE or ▶ PLAY.
Fast-forward/rewind	Press ▶▶ FF or ◀◀ REW during stop.
View the picture during fast-forward or rewind	During fast-forward, hold down ▶▶ FF. During rewind, hold down ◀◀ REW.
Play at high speed	<ul style="list-style-type: none"> • During playback, press ▶▶ FF or ◀◀ REW <u>on the remote commander</u>. • During playback, hold down ▶▶ FF or ◀◀ REW. 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 <u>on the remote commander</u> . Hold down the button to play one frame each second.
Rewind and start play	While the tape is stopped, hold down ◀◀ REW <u>on the VCR</u> and press ▶ PLAY <u>on the VCR</u> .
Eject the tape	Press ▲ EJECT.

To resume normal playback

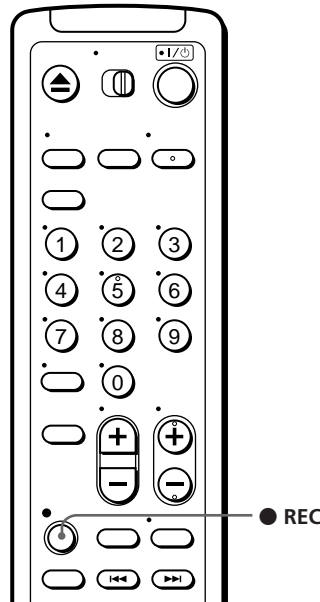
Press ▶ PLAY.



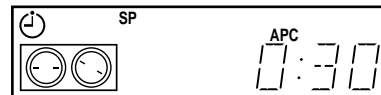


Setting the recording duration time

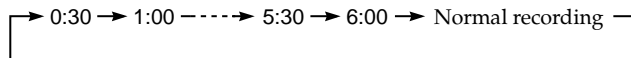
After you have started recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



- 1 While recording, press ● REC.
The ⏻ indicator appears in the display window.



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



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

To extend the duration

Press ● REC repeatedly to set to the new duration.

To cancel the duration

Press ● REC repeatedly until the ⏻ indicator turns off and the VCR returns to normal recording mode.

To stop recording

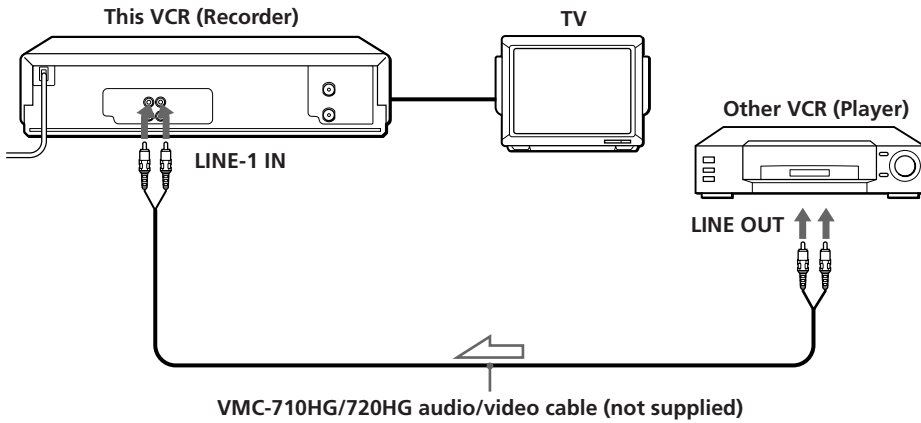
To stop the VCR while recording, press ■ STOP.





Editing with another VCR

How to connect to record on this VCR



 : Signal flow

Tip

- Connect LINE-1 IN on this VCR to the line output jacks on the other VCR using a commercially available audio/video cable such as Sony VMC-710HG/720HG (not supplied). If the other VCR has the AUDIO L and R jacks, use a Sony VMC-910HG audio/video cable (not supplied).

Notes

- Make sure you connect the plugs to the jacks of the same colour.
- If you connect this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.

continued



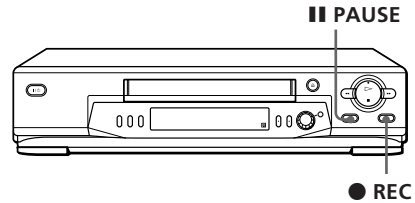
Editing with another VCR (continued)

Operation

(when recording on this VCR)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/- to display "L" in the display window.
- Press REC 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 **II PAUSE**.
- 3** Press **● REC** on this VCR and set it to recording pause.
- 4** To start editing, press the **II 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 **II PAUSE** buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press **II PAUSE** on this VCR when an unwanted scene begins. When it ends, press **II 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 **II PAUSE** after the APC indicator stops flashing. If you press **II PAUSE** before the APC indicator stops flashing, the APC function is cancelled.