SONY

3-861-926-**11** (2)

Video Cassette Recorder

Operating Instructions

VHS
PAL NTSC 4.43

SHOWVIEW

SLV-E580EG

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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.

Mains lead must only be changed at qualified service shop.

Precautions

Safety

- This unit operates on 220 – 240 V AC, 50 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 wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

Installing

- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the VCR and cause damage to the video head and tape. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

Caution

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

Compatible colour systems

This VCR is designed to record using the PAL (B/G or D/K) or MESECAM (B/G or D/K) colour system and play back using the PAL (B/G or D/K), MESECAM (B/G or D/K), and NTSC 4.43 colour systems. Recording of video sources based on other colour systems cannot be guaranteed.

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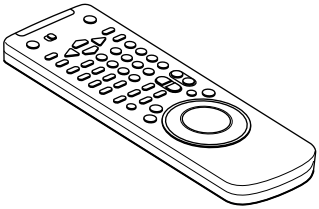
* ShowView is a trademark applied for by Gemstar Development Corp. ShowView system is manufactured under license from Gemstar Development Corporation.

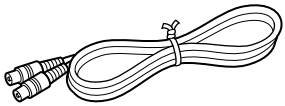
Step 1
Unpacking

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

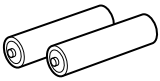
- Remote commander



- Aerial cable



- R6 (size AA) batteries



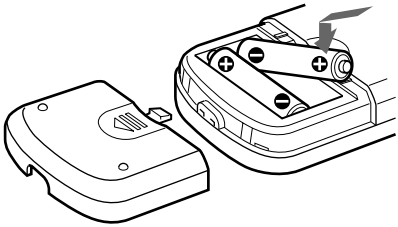
Step 2

Setting up the remote commander

Inserting the batteries

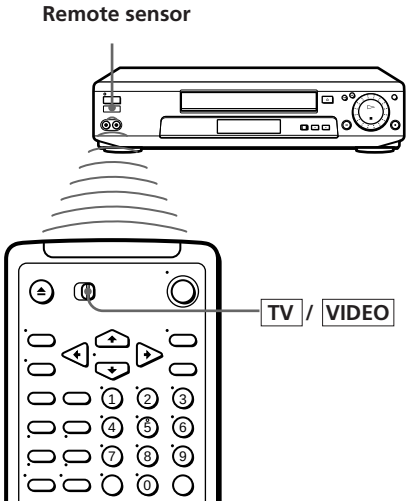
Insert two R6 (size AA) batteries by matching the + and – on the batteries to the diagram inside the battery compartment.

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



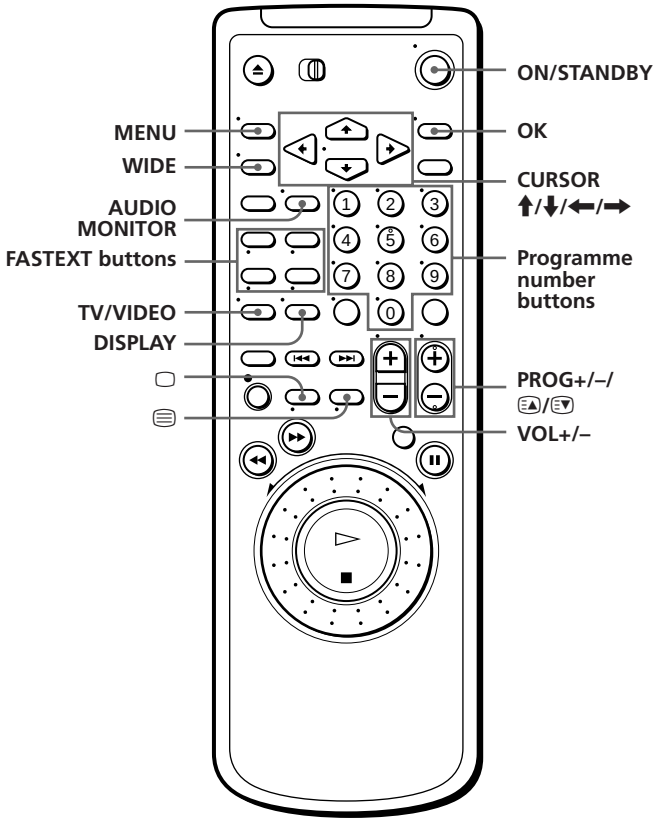
Using the remote commander

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

continued



TV control buttons

To	Press
Turn the TV into standby or active mode	ON/STANDBY
Select an input source of the TV either from aerial in or from line in	TV/VIDEO
Select the programme position of the TV	Programme number buttons PROG +/–
Adjust the volume of the TV	VOL +/–
Switch to TV (Teletext off)	▢ (TV)
Switch to Teletext	▤ (Teletext)

To	Press
Select the sound	AUDIO MONITOR
Use FASTEXT	FASTEXT buttons
Call up on-screen display	DISPLAY
Change the Teletext page	/
Operate TV menu options	MENU CURSOR ↑/↓/←/→ OK
Switch to/from wide mode of a Sony wide TV (For other manufacture's wide TV, see "Controlling other TVs with the remote commander" below.)	WIDE

Notes

- 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 together.
- Do not use different types of batteries together.

Controlling other TVs with the remote commander

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the table below, set the appropriate manufacturer's code number.

1 Set TV / VIDEO at the top of the remote commander to TV.

2 Hold down ON/STANDBY, and enter your TV's code number(s) using the programme number buttons. Then release ON/STANDBY.

Now you can use the following TV control buttons to control your TV: ON/STANDBY, TV/VIDEO, programme number buttons, –/–– (ten's digit), PROG +/–, VOL +/–, ▭ (TV), ▤ (Teletext), FASTEXT buttons, WIDE*, MENU*, CURSOR ↑/↓/←/→*, and OK*.

* These buttons may not work with all TVs.

Tip

- When you set your TV's code number correctly while the TV is turned on, the TV turns off automatically.

continued

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

To make wide mode settings, see the footnotes below this table for the applicable code numbers.

Manufacturer	Code number
Sony	01*1, 02, 03, 04, 05
Aiwa	32
Akai	68
Blaupunkt	10, 21
Brionvega	40
C.G.M	09
Colonad	03
Dual	44
Emerson	03, 04
Fenner	30, 31
Ferguson	52
Gold Star	03, 04, 17
Grundig	10*1, 11*1
Hitachi	24
Hyper	31
Inno-Hit	41
Irradio	20
ITT	15, 16, 69*3
JVC	33*1
Loewe	45
Mitsubishi	27*1, 28*1, 50*1, 51*1
Mivar	09

Manufacturer	Code number
NEC	66
Nokia	15, 16, 69*3
Nordmende	35, 42
Orion	47, 48
Panasonic	17*1, 49
Philips	06*1, 07*1, 08*1
Phonola	18, 19
Pioneer	26
Saba	12, 13
Samsung	22, 23
Sanyo	25
Schneider	46
Seleco	14
Sharp	29
Siemens	39
Sinudyne	37
TEAC	67
Telefunken	36
Thomson	43*2
Toshiba	38
White Westinghouse	34

*1 Press WIDE to switch the wide picture mode on or off.

*2 Press WIDE, then press VOL +/– to select the wide picture mode you want.

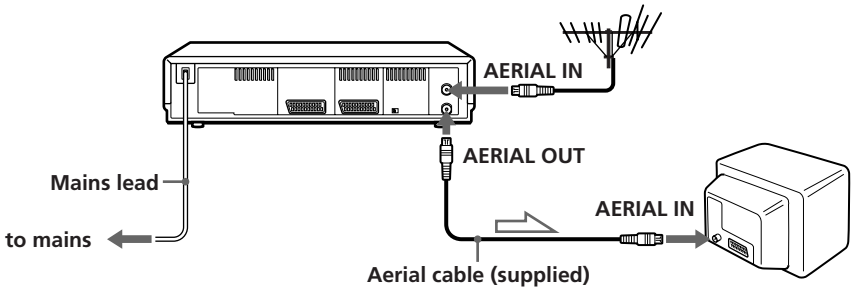
*3 Press WIDE. The menu appears on the TV screen. Then, press CURSOR ↑/↓/←/→ to select the wide picture you want and press OK.

Notes

- If the TV uses a different remote control system from the one programmed to work with the VCR, you cannot control your TV with the remote commander.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number automatically resets to 01 (Sony). Reset the appropriate code number.

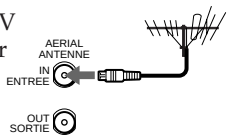
Step 3

Connecting the VCR

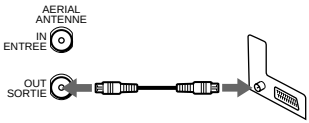


: Signal flow

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.



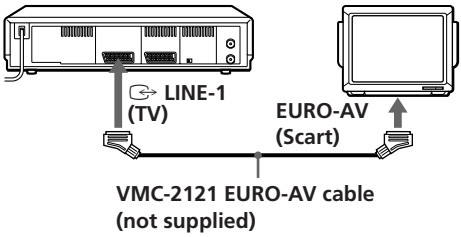
3 Connect the mains lead to the mains.

continued

Additional connections

To a TV that has a EURO-AV (Scart) connector

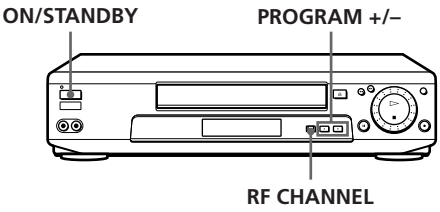
This additional connection improves picture and sound quality. Connect the TV as shown on the right. Whenever you want to watch the VCR picture, press TV/VIDEO to display the VIDEO indicator in the display window.



Step 4

Tuning your TV to the VCR

If you have connected the VCR to your TV using the EURO-AV cable, skip this step.



1 ○ ON/STANDBY

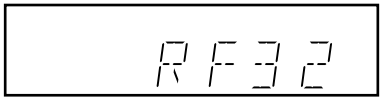
Press ON/STANDBY to turn on the VCR.

2 RF CHANNEL

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

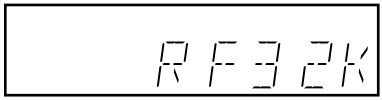
Turn on your TV and select a programme position for the VCR picture.

This programme position will now be referred to as the video channel.

4 RF CHANNEL

Press RF CHANNEL.

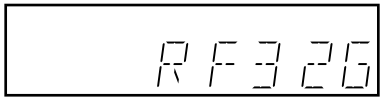
The TV system appears in the display window.



continued

5 – PROGRAM +

Press PROGRAM +/– (repeatedly) to select the correct TV system. If you watch the system B/G, select "G." If you watch the system D/K, select "K."



6

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.

7 RF CHANNEL

Press RF CHANNEL.

You have now tuned your TV to the VCR. Whenever you want to play a tape, set the TV to the video channel.

To check to see if the TV tuning is correct

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

To obtain a clear picture from the VCR

If the picture does not appear clearly in step 6 above, go to step 7 to finish this procedure once. Then start again from step 2. After pressing RF CHANNEL in step 2, press PROGRAM +/– while the RF channel is displayed, so that another RF channel appears. Then tune the TV to the new RF channel until a clear picture appears.

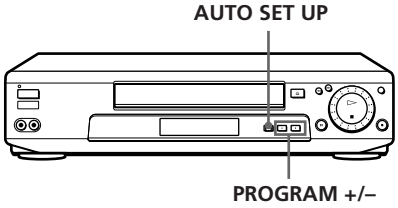
Note

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

Step 5

Setting up the VCR with the Auto Set Up function

Before using the VCR for the first time, set up the VCR using the Auto Set Up function. With this function, you can set the language for the on-screen display and TV channels, guided by the sequence indicated on the TV screen.



1 AUTO SET UP

Hold down AUTO SET UP on the VCR for more than three seconds.

The VCR automatically turns on, and the country abbreviation for ATP (Auto Tuner Preset) appears in the display window.

2 – PROGRAM +

Press PROGRAM +/– to select the abbreviation of your country.

For some countries, there is a selection of languages to choose from.

The abbreviations of the countries and languages are as follows:

Abbreviation	Country	Language
CZ	Checho	Czech
H	Hungary	Hungarian
PL	Poland	Polish
RU	Russia	Russian
ELSE	Other countries	English

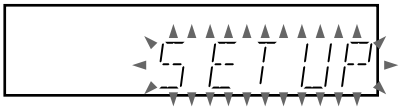
If your country does not appear, select ELSE.

continued

Step 5 : Setting up the VCR with the Auto Set Up function (continued)

3 AUTO SET UP

Press AUTO SET UP. The ATP function starts searching for all of the receivable channels and presets them in numerical sequence.



After the search is complete, the current time appears in the display window for any stations that transmit a time signal.

To cancel the Auto Set Up function

Press AUTO SET UP.

Tip

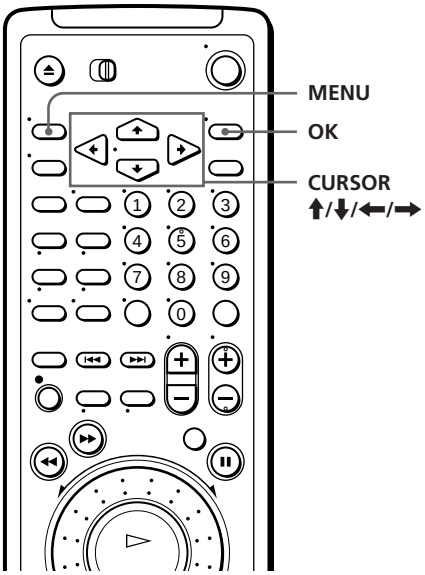
- If you want to change the language for the on-screen display from the one preset in the Auto Set Up function, see page 19.

Note

- Do not cancel the Auto Set Up function during the ATP operations. If you do, repeat the steps above.

Step 6

Setting the clock



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

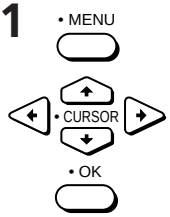
The Auto Clock Set function works only if a station in your area is broadcasting a time signal. If the Auto Set Up function did not set the clock correctly for your local area, try another station for the Auto Clock Set function.

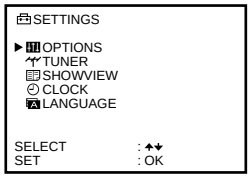
Before you start...

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

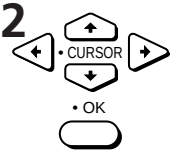
Setting the clock manually

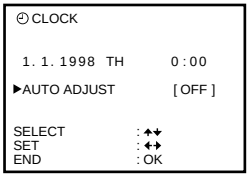
1 Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.





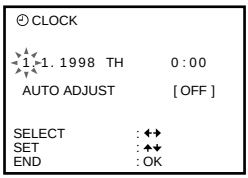
2 Press CURSOR ↑/↓ to select CLOCK, then press OK.





3 Press CURSOR ↑/↓ to move the cursor (▶) to the clock row, then press CURSOR →.

The day starts flashing.



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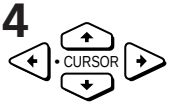
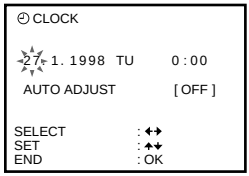
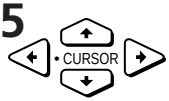
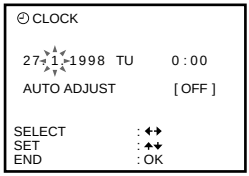
4 

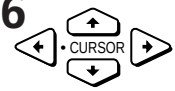
Press CURSOR ↑/↓ to set the date.



5 

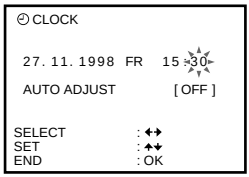
Press CURSOR → to flash the month and set the month pressing CURSOR ↑/↓.

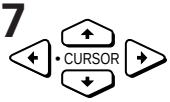


6 

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

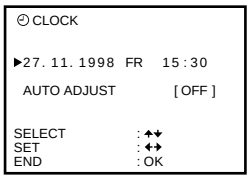
The day of the week is set automatically.



7 

Press CURSOR → to start the clock.

The cursor (▶) appears at the beginning of the line.



8

Press OK.

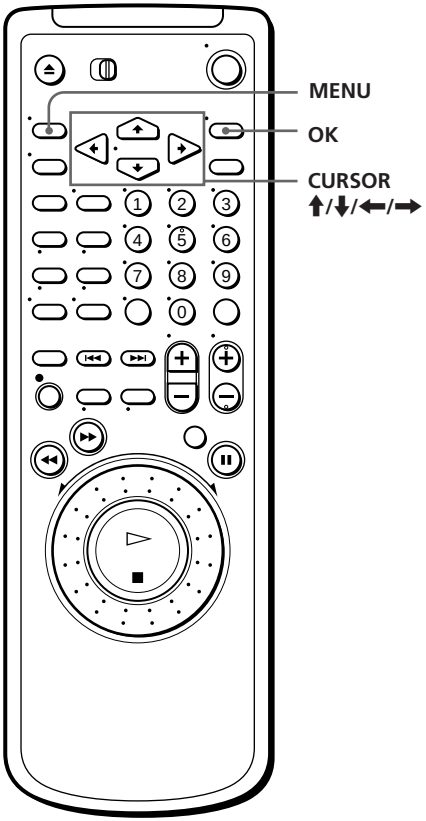
Tip

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

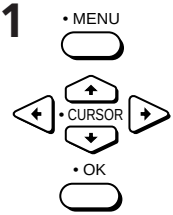
Note

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

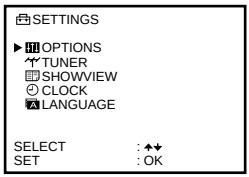
Changing the station for the Auto Clock Set function



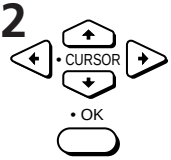
1



Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.

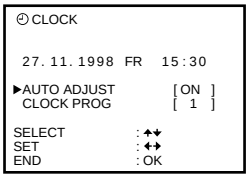


2

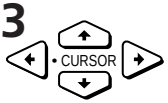


Press CURSOR ↑/↓ to select CLOCK, then press OK.

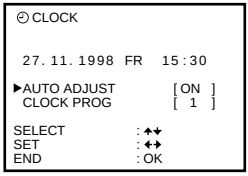
The cursor (▶) appears at AUTO ADJUST.

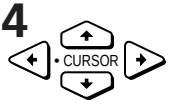


continued

3 

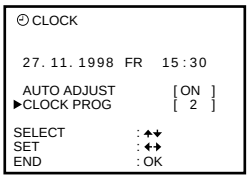
Press CURSOR ←/→ to select ON.



4 

Press CURSOR ↓ to move the cursor (▶) to CLOCK PROG, then press CURSOR ←/→ repeatedly until the programme position of a station that carries the time signal appears.

If the VCR does not receive the time signal from any station, AUTO ADJUST returns to OFF automatically.



5

Press OK.

Tip

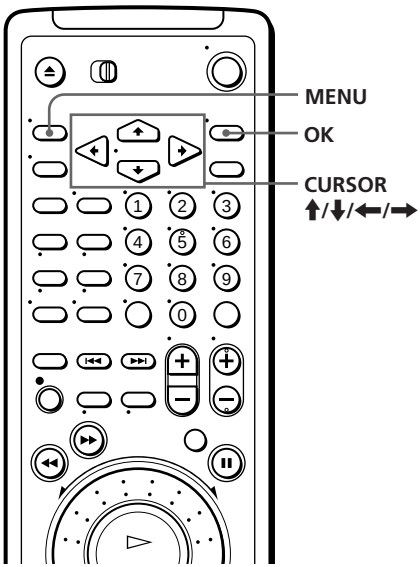
- If you set AUTO ADJUST to ON, the Auto Clock Set is activated whenever the VCR is turned off. The date and time is adjusted automatically by making reference to the time signal from the station whose programme position is displayed in the "CLOCK PROG" row.

  If you do not need the Auto Clock Set, select OFF.

Note

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

Manual setup — Selecting a language



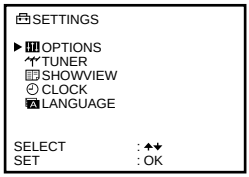
You can change the on-screen display language from the one you selected with the Auto Set Up function.

Before you start…

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

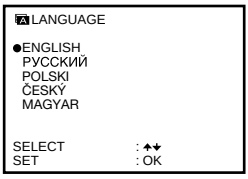
1 • MENU, • CURSOR, • OK

Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.



2 • CURSOR, • OK

Press CURSOR ↑/↓ to select LANGUAGE and press OK.



3 • CURSOR, • OK

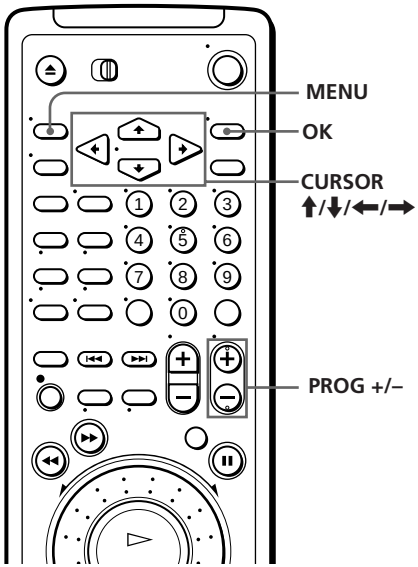
Press CURSOR ↑/↓/←/→ to move the dot (●) to the desired language, then press OK.

Manual setup — Presetting channels

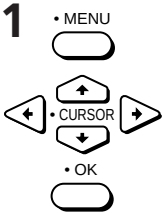
If some channels could not be preset using the Auto Set Up function, you can preset them manually.

Before you start...

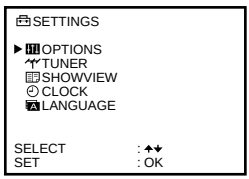
- Turn on the VCR and the TV.
- Set the TV to the video channel.



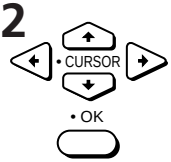
1



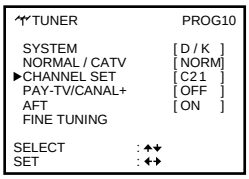
Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.



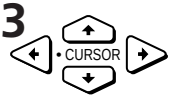
2



Press CURSOR ↑/↓ to select TUNER and press OK.

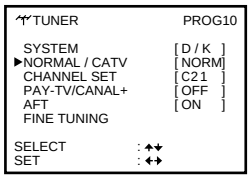


3

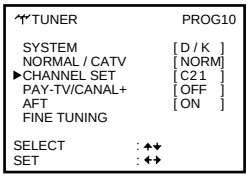


Press CURSOR ↑/↓/←/→ to move the cursor (▶) to NORMAL/CATV, then select NORM.

To preset CATV channels, select CATV.

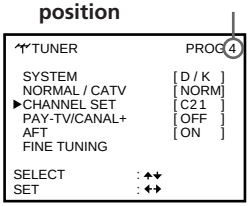


4 Press CURSOR ↑/↓ to move the cursor (▶) to CHANNEL SET.



5 Press PROG +/– to select the programme position.

Selected programme position



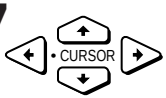
6 Press CURSOR ←/→ repeatedly until the channel you want is displayed.

The channels appear in the following order:

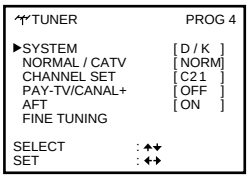
B/G TV system		D/K TV system	
Channel number in the CHANNEL SET field	**Channel**	**Channel number in the CHANNEL SET field**	**Channel**
2	E2	2	R1
3	E3	5	R6
4	E4	6	R7
5	E5	12	R12
6	E6	13	R2
7	E7	14	R3
8	E8	15	R4
9	E9	16	R5
10	E10	17	R8
11	E11	18	R9
12	E12	19	R10
21–69	E21–E69	20	R11
CATV 1–41	S1–S41	21–69	R21–R69
CATV 42–46	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."

continued

7 

If the TV sound is distorted or noisy, press CURSOR ↑/↓/←/→ to move the cursor (▶) to SYSTEM, then select B/G or D/K so that you get the better sound.



8 To allocate another channel to another programme position, repeat steps from 5 to 7.

9

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 6 above, press programme number button “0” twice to display the number “00” 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.

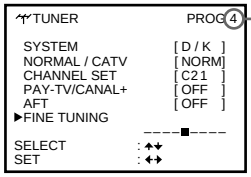
1 Press PROG +/– or the programme number buttons to select the programme number for which you cannot obtain a clear picture.

2 Press MENU, then select SETTINGS and press OK.

3 Select TUNER, then press OK.

4 Select FINE TUNING.

The fine tuning meter appears.



Selected programme position

5 Press CURSOR ←/→ 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 don't proceed for more than a few minutes.

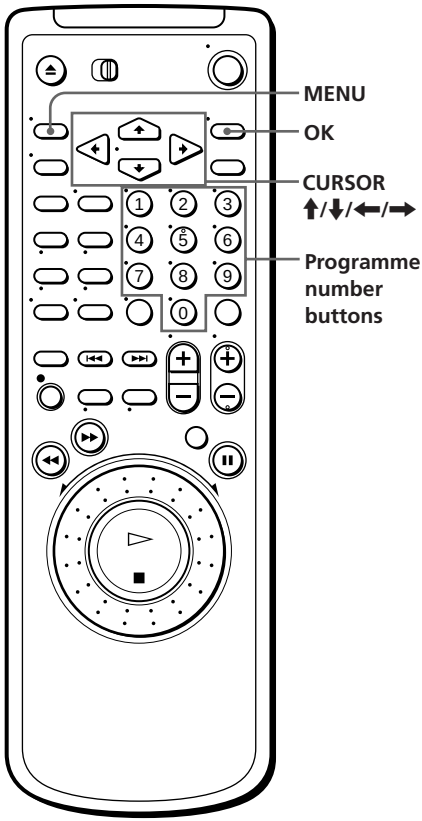
Manual setup — Setting up ShowView

ShowView is a feature that simplifies programming the VCR to make timer recordings. To use ShowView, each programme position needs to be matched with its ShowView guide channel. To get the guide channel numbers, look in the programme guide for your area that features ShowView numbers.

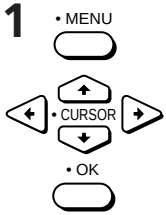
- If you want to record satellite broadcasts using ShowView, see page 25.

Before you start…

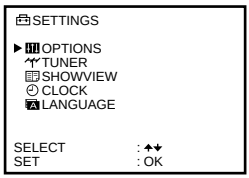
- Turn on the VCR and the TV.
- Set the TV to the video channel.



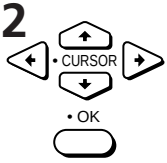
1



Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.



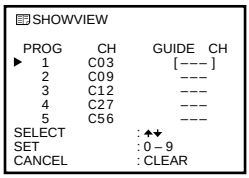
2

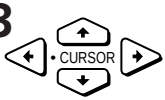


Press CURSOR ↑/↓ to select SHOWVIEW, then press OK.

The preset channels are displayed on the screen.

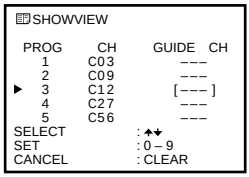
"– – –" in the GUIDE CH column means that the guide channel has not been preset.

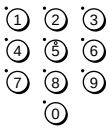


3 

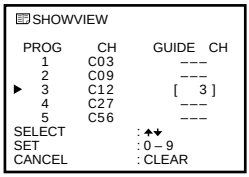
Press CURSOR ↑/↓ to move the cursor (▶) to the row on which you want to set the guide channel.

To display other pages for programme positions 6 to 60, press CURSOR ↑/↓ repeatedly.



4 

Press the programme number buttons to enter the guide channel number assigned in the programme guide.



5 To set the guide channel of another station, repeat steps 3 to 4.

6

Press OK.

Setting up ShowView for satellite broadcasts

When your satellite tuner is connected via the AERIAL IN connector, first you have to set the programme position for each satellite channel using the TUNER menu. Then set the guide channel number for each satellite channel using the SHOWVIEW menu.

If your satellite tuner is connected via the LINE-1 (TV) connector, you don't have to set programme positions nor guide channel numbers for satellite channels. Skip the following procedure.

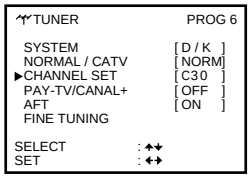
1. Turn on the satellite tuner.
2. Press MENU, then select SETTINGS and press OK.
3. Select TUNER, then press OK.
4. Press PROG +/– to select a programme position you want to use for watching a satellite channel.

continued

5 Select CHANNEL SET, then press CURSOR ←/→ repeatedly to tune the VCR to the satellite tuner.

The channel number displayed beside CHANNEL SET is used for receiving all satellite broadcasts from the satellite tuner.

Remember this number for the following steps.



6 Press PROG +/– to select another programme position for the next satellite channel, and press the programme number buttons to enter the same channel number as the one displayed in step 5. Otherwise, the setting will not be memorized.

Repeat this step for all satellite channels, then press OK.

7 Set the guide channel number for each programme position assigned to the satellite channel, following the procedures on page 24.

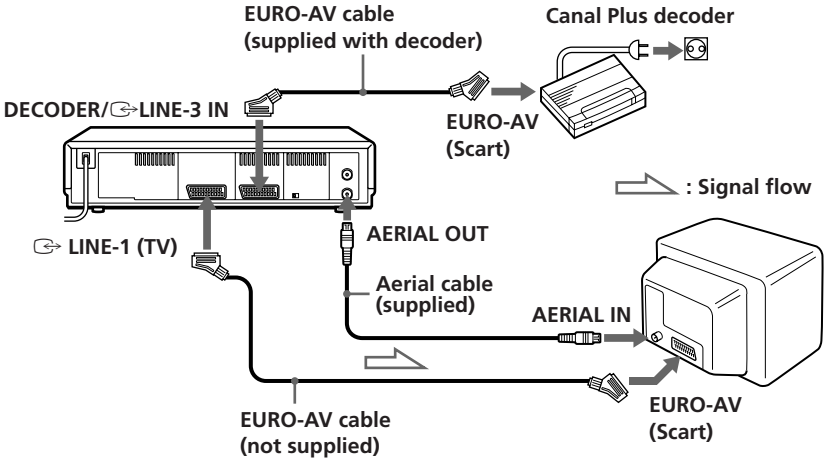
Notes

- The menu disappears automatically if you don't proceed for more than a few minutes.
- If you use a satellite tuner connected via the LINE-1 IN (TV) connector, you don't have to set up ShowView. Just record a satellite programme using ShowView, and the VCR automatically records the programme from the LINE-1 IN (TV) connector.
- If you inadvertently entered a guide channel number, press CLEAR.
- The VCR does not allow entering the guide channel number if the same number has been set.
- When you record a satellite broadcast using ShowView, you need to select the desired channel on the satellite tuner manually.

Setting the Canal Plus decoder

You can watch or record Canal Plus programmes if you connect a decoder (not supplied) to the VCR.

Connecting a decoder

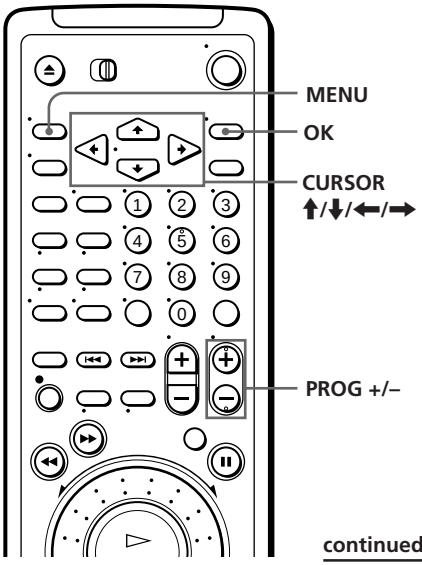


Setting Canal Plus channels

To watch or record Canal Plus programmes, set your VCR to receive the channels using the on-screen display.

Before you start…

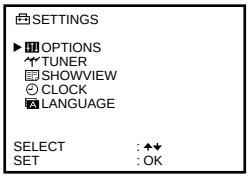
- Turn on the VCR, the TV, and the decoder.
- Set the TV to the video channel.



continued

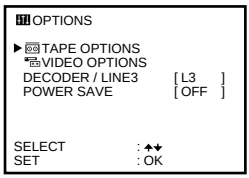
1 • MENU • CURSOR • OK

Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.



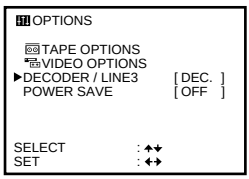
2 • CURSOR • OK

Press CURSOR ↑/↓ to select OPTIONS, then press OK.



3 • CURSOR

Press CURSOR ↑/↓ to move the cursor (▶) to DECODER/LINE3, then press CURSOR ←/→ to select DEC.

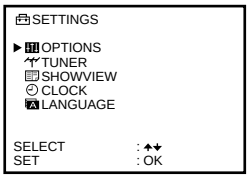


4 • OK

Press OK.

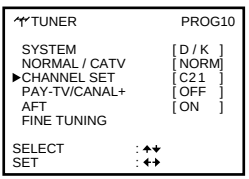
5 • MENU • CURSOR • OK

Press MENU, then press CURSOR ↑/↓ to select SETTINGS and press OK.

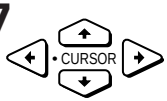


6 • CURSOR • OK

Press CURSOR ↑/↓ to select TUNER, then press OK.

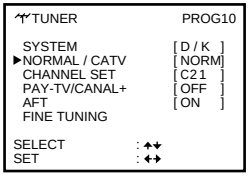


7



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

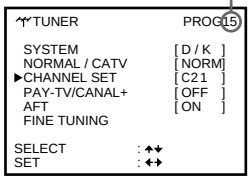
To preset CATV channels, select CATV.



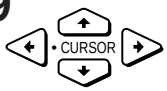
8

Press PROG +/– to select the desired programme position.

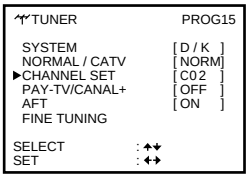
Selected programme position



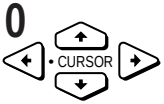
9



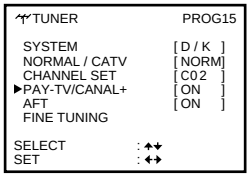
Press CURSOR ↑/↓ to move the cursor (▶) to CHANNEL SET, then press CURSOR ←/→ to select the Canal Plus channels.



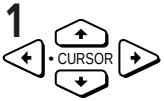
10



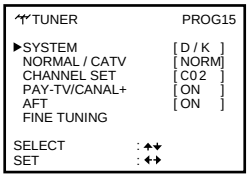
Press CURSOR ↑/↓ to move the cursor (▶) to PAY-TV/CANAL+, then press CURSOR ←/→ to select ON.



continued

11 

If the TV sound is distorted or noisy, press CURSOR ↑/↓/←/→ to move the cursor (▶) to SYSTEM, then select B/G or D/K so that you get the better sound.



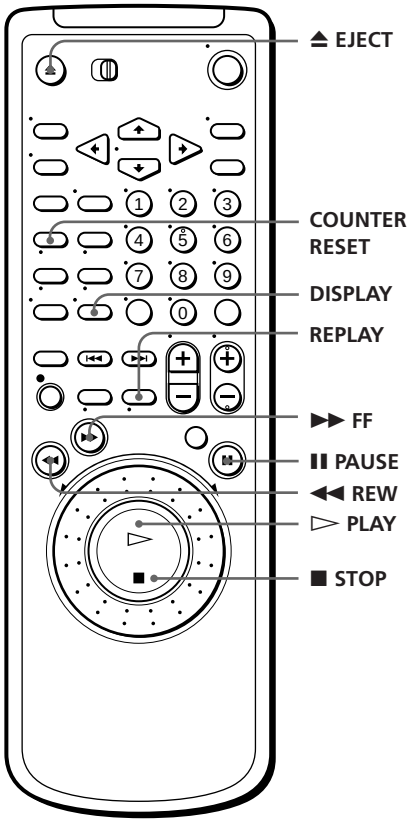
12

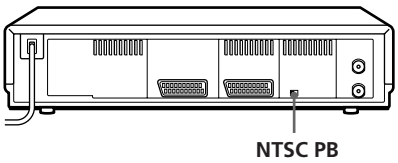
Press OK.

Notes

- To superimpose subtitles while watching Canal Plus programmes, make both decoder-VCR and VCR-TV connections using 21-pin EURO-AV cables that are compatible with the RGB signals. You cannot record subtitles on the VCR.
- When you watch Canal Plus programmes using the RFU input of the TV, press TV/VIDEO so that the VIDEO indicator appears in the display window.

Playing a tape

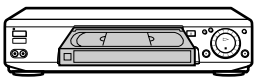




1 Turn on your TV and set it to the video channel.

2 Insert a tape.

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



3

Press ▷ PLAY.

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

continued

Additional tasks

To	Press
Stop play	■ STOP
Pause play	❚❚ PAUSE
Resume play after pause	❚❚ PAUSE or ▷ PLAY
Fast-forward the tape	▶▶ FF during stop
Rewind the tape	◀◀ REW during stop
Eject the tape	⏏ EJECT

To replay a recently watched scene

You can immediately rewind and playback the scene you want to watch again.

During playback, press REPLAY up to four times. The VCR rewinds the tape about 10 seconds on the counter for each press of the button, and restarts playback.

To set the colour system

If the playback picture has no colour, or streaks appear during playback, set the SYSTEM option in the VIDEO OPTIONS menu to conform to the system that the tape was recorded in (see page 55). (Normally set the option to AUTO.)

To play an NTSC-recorded tape

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

When your TV is	Set NTSC PB to
PAL only	ON PAL TV
PAL and NTSC	NTSC 4.43

To use the time counter

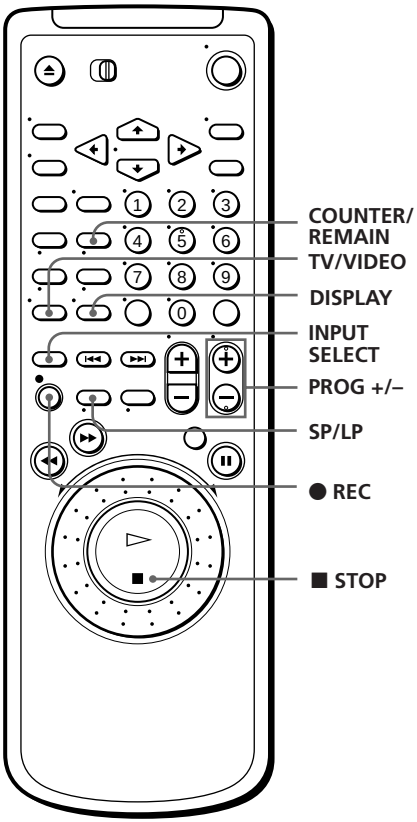
At the point on the tape that you want to find later, press COUNTER RESET. The counter in the display window resets to "0:00:00." Search for the point afterwards by referring to the counter.

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.
- The time counter does not appear on the TV screen when using an NTSC-recorded tape.
- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
  - The picture becomes 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.
- If you play back a tape in LP or EP mode with NTSC system, the sound is heard in monaural.

Recording TV programmes



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

To record from a decoder, turn it on.

2 Insert a tape with its safety tab in place.

3 INPUT SELECT

Press INPUT SELECT until a programme position number appears in the display window.

4 • PROG

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

5 SP / LP

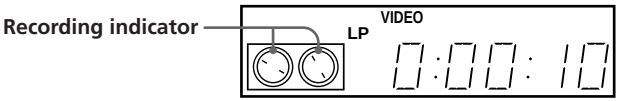
Press SP/LP to select the tape speed, SP or LP.

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

6 ●REC

Press ● REC to start recording.

The recording indicator lights up red in the display window.



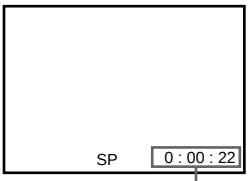
To stop recording

Press ■ STOP.

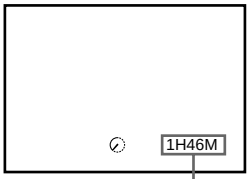
continued

To check the remaining time

Press DISPLAY. With the display on, press COUNTER/REMAIN to check the remaining time. Each time you press COUNTER/REMAIN, the time counter and the remaining time appear alternately. The remaining time with the ⏲ indicator also appears in the display window.



Time counter



Remaining time

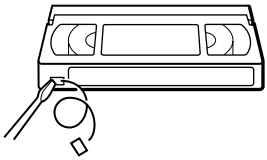
To correctly check the remaining time of the tape, set TAPE SELECT in the TAPE OPTIONS menu according to the tape type you use (see page 54).

To watch another TV programme while recording

1. Press TV/VIDEO on the remote commander to turn off the VIDEO indicator in the display window.
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

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 (TV), LINE-3 IN (Scart) connector, or LINE 2 IN VIDEO/AUDIO jacks using INPUT SELECT.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV.
  When using a decoder, make sure to leave it on.

Notes

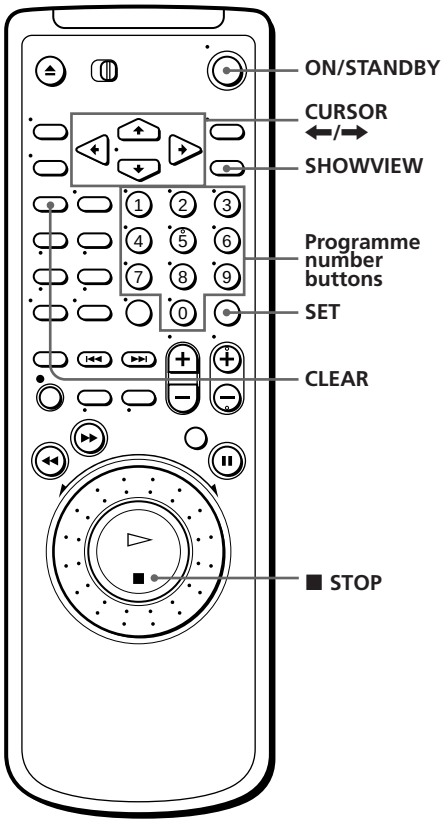
- The display does not appear during still (pause) mode or slow-motion playback.
- The display will not appear while playing an NTSC-recorded tape.
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two video systems.
- You cannot watch a Canal Plus programme while recording another Canal Plus programme.
- When you insert a non-standard commercially available tape, the remaining time may not be correct.
- The remaining time doesn't work for an NTSC-recorded tape. "–H– –M" appears in the display window.
- The remaining time is intended for rough measurement only.
- About 30 seconds after the tape begins playback, the tape remaining time will be displayed.

Recording TV programmes using ShowView

Just enter the programme's ShowView number listed in the TV programme guide. The date, times, and programme position of that programme are set automatically. You can preset up to eight programmes at a time.

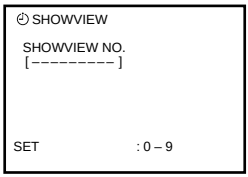
Before you start...

- 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 SHOWVIEW

Press SHOWVIEW.



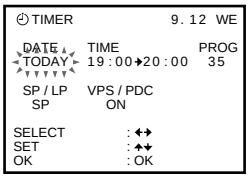
2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⓪

Press the programme number buttons to enter the programme's ShowView number, then press SET.

If you make a mistake before pressing SET, press SHOWVIEW and re-enter the correct number.

SET

The date, programme position, and start and stop times appear on the TV screen.



CLEAR

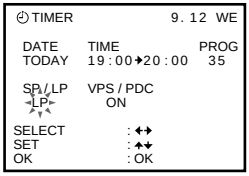
If the information is incorrect, press CLEAR to cancel the setting.

3 • CURSOR

If you want to change the date, tape speed, and the VPS/PDC function setting:

1 Press CURSOR ←/→ to flash the item you want to change.

2 Press CURSOR ↑/↓ to reset it.



- To record the same programme every day or the same day every week, see "Daily/weekly recording" on page 40.
- To use the VPS/PDC function, set VPS/PDC to ON. For details of the VPS/PDC function, see "Timer recording with VPS/PDC signals" on page 40.

4 • OK

Press OK to complete the setting.

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.

continued

To stop recording

To stop the VCR while recording, press ■ STOP.

Daily/weekly recording

In step 3 in "Recording TV programmes using ShowView," press CURSOR ↓ to select the recording pattern. Each time you press CURSOR ↓, the indication changes as shown below. Press CURSOR ↑ to change the indication in reverse order.

TODAY → SU-SA (Sunday to Saturday) → MO-SA (Monday to Saturday) → MO-FR (Monday to Friday) → SA (every Saturday) ..... → MO (every Monday) → SU (every Sunday) → 1 month later → (dates count down) → TODAY

Timer recording with VPS/PDC signals

The broadcast systems transmit VPS (Video Programme System) or PDC (Programme Delivery Control) signals with their TV programmes. These signals ensure that your timer recordings are made regardless of broadcast delay, early starts or broadcast interruptions.

To use the VPS/PDC function, set VPS/PDC to ON. You can also use the VPS/PDC function for a source connected to the LINE-1 (TV) and LINE-3 IN connectors.

To record satellite broadcasts

If you connect the satellite tuner and the VCR, you can record satellite programmes.

1. Turn on the satellite tuner.
2. On the satellite tuner, select the satellite programme for which you wish to make a timer setting.
3. Keep the satellite tuner turned on until the VCR finishes recording the satellite programme for which you have made a timer setting.

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

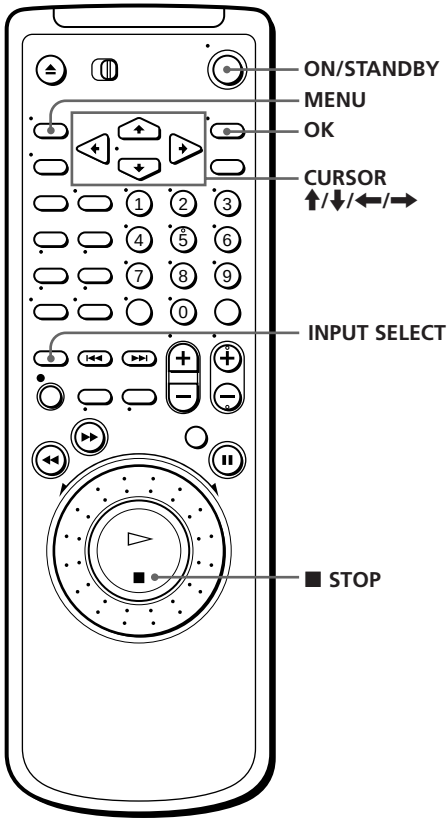
- To set the tape speed, you can also use the SP/LP button.
- When you are recording a programme in the SP mode and the remaining tape becomes shorter than the recording time, the tape speed is automatically changed to the LP mode. Note that some interference will appear on the picture at the point the tape speed is changed. If you want to keep the same tape speed, set AUTO TAPE SPEED to OFF in the TAPE OPTIONS menu (page 54).

Setting the timer manually

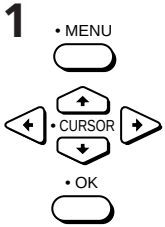
If ShowView is not available in your area, follow the instructions below to set the timer to record programmes.

Before you start...

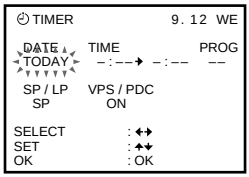
- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- To record from a decoder, turn it on.
- Turn on your TV and set it to the video channel.



1



Press MENU and select TIMER, then press OK.



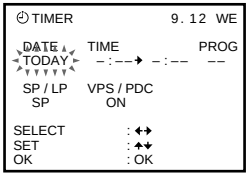
2 CURSOR

Set the date, programme position, start and stop times, tape speed, and VPS/PDC function:

1 Press CURSOR ➡ to flash each item in turn.

2 Press CURSOR ⬆/⬇ to set each item.

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



- To record the same programme every day or the same day every week, see "Daily/weekly recording" on page 44.
- To use the VPS/PDC function, set VPS/PDC to ON. For details of the VPS/PDC function, see "Timer recording with VPS/PDC signals" on page 40.

INPUT SELECT

- To record from a decoder or other source connected to the LINE-1 (TV), LINE-3 IN (Scart) connector, or LINE 2 IN VIDEO/AUDIO jacks, press INPUT SELECT to display "L1," "L3," or "L2" in the "PROG" position.

3 • OK

Press OK to complete the setting.

4 • 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 a decoder or other source, leave the connected equipment switched on.

To stop recording

To stop the VCR while recording, press ■ STOP.

continued

Daily/weekly recording

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

TODAY → SU-SA (Sunday to Saturday) → MO-SA (Monday to Saturday) → MO-FR (Monday to Friday) → SA (every Saturday) ..... → MO (every Monday) → SU (every Sunday) → 1 month later → (dates count down) → TODAY

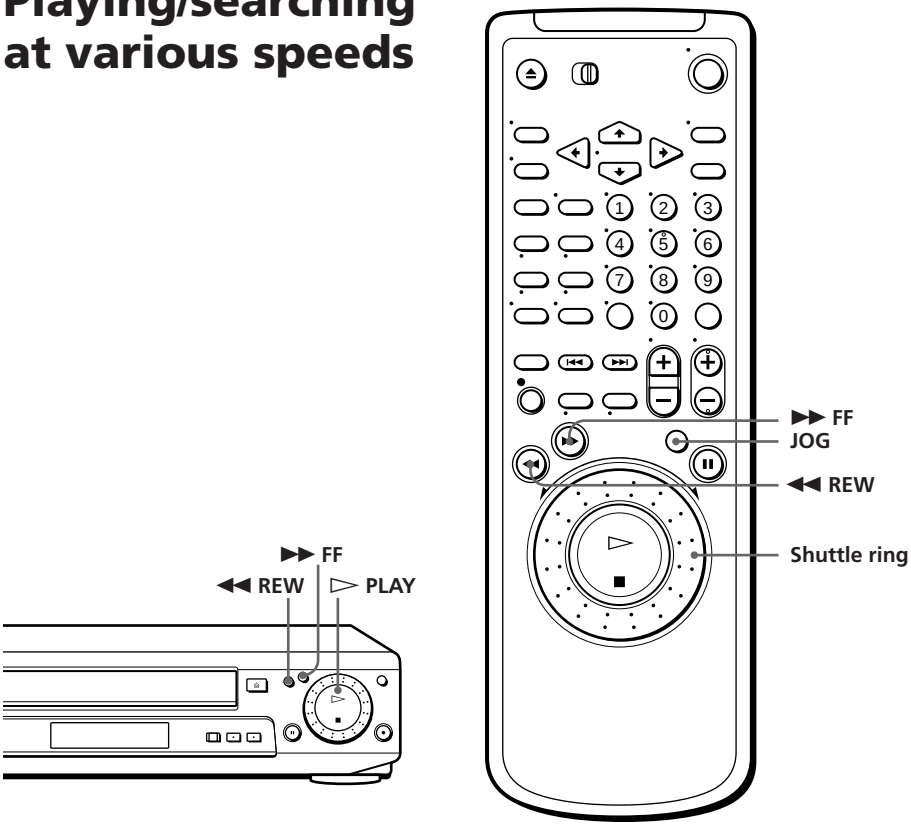
Tips

- 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 SP/LP button.
- When you are recording a programme in the SP mode and the remaining tape becomes shorter than the recording time, the tape speed is automatically changed to the LP mode. Note that some interference will appear on the picture at the point the tape speed is changed. If you want to keep the same tape speed, set AUTO TAPE SPEED to OFF in the TAPE OPTIONS menu (page 54).

Notes

- When setting the timer with VPS/PDC signals, enter the start and stop times exactly as indicated in the TV programme guide, otherwise the VPS/PDC function won't work.
- If the VPS/PDC signal is too weak or the broadcasting station failed to transmit VPS/PDC signals, the VCR will start recording at the set time without using the VPS/PDC function.
- 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, press ▶▶ FF. During rewind, press and hold ◀◀ REW.
Rewind and start play	During stop, press ▷ PLAY on the VCR while holding ◀◀ REW down on the VCR.

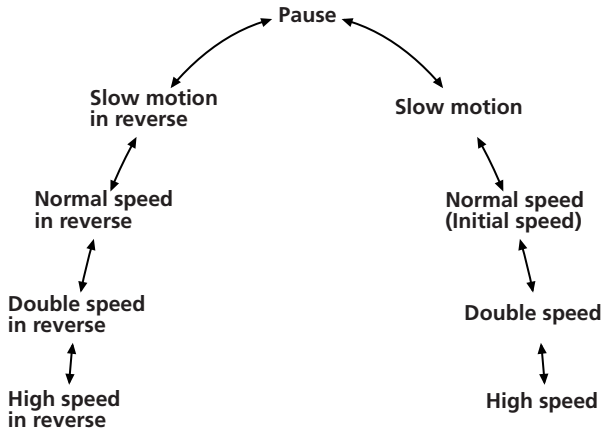
continued

Using the shuttle ring

With the shuttle ring, you can operate a variety of playback options. There are two ways for using the shuttle ring, normal mode and jog mode.

To use the shuttle ring in normal mode

During playback or pause, turn the shuttle ring clockwise or anticlockwise. Each change in the shuttle ring position changes the playback mode in the following way.



To use the shuttle ring in jog mode

Use this mode for frame-by-frame playback.

Press JOG to enter the jog mode. The JOG button lights up. If you change to the jog mode during any playback mode, the playback pauses so you can see a still picture. Each change in the shuttle ring position shifts the picture one frame. To shift frames in reverse, turn the shuttle ring counterclockwise. The frame shift speed depends on the speed you turn the shuttle ring.

To resume normal playback, press JOG again. The JOG indicator goes off.

To resume normal playback

Press ▷ PLAY.

Tip

- Adjust the picture using TRACKING +/– if:
  – Streaks appear while playing in slow motion.
  – Bands appear at the top or bottom while pausing.
  – The picture shakes while pausing.

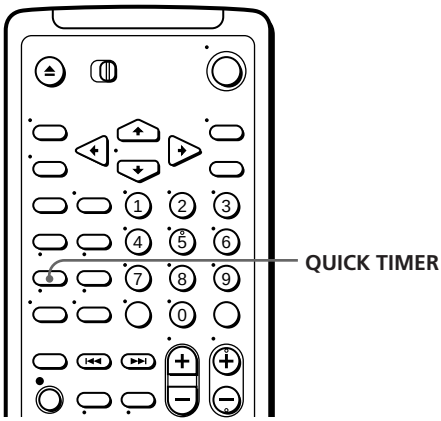
  To set tracking to the centre position, press both buttons (+/–) at the same time.

Notes

- The playback sound is muted during the operations in the above table.
- In the LP mode, noise may appear or there may be no colour.
- If the playback mode mark doesn't appear on the TV screen, press DISPLAY.

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.

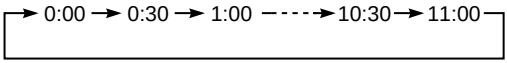


1 While recording, press QUICK TIMER once.

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.

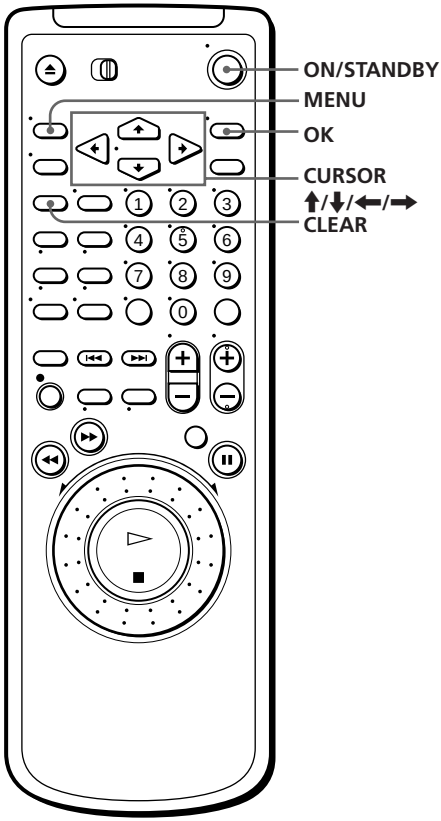
To stop recording

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 programme position, 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



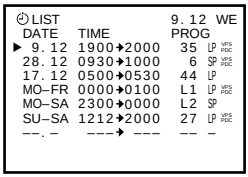
Before you start…

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

1 Press ON/STANDBY to turn on the VCR.

2 Press MENU and select LIST, then press OK:

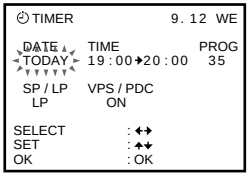
- If you want to change or cancel a setting, go on to the next step.
- If you do not need to change or cancel the settings, press OK, then turn off the VCR to return to recording standby.



continued

3 Press CURSOR ↑/↓ to select the setting you want to change or cancel, then press OK.

The selected setting appears in the TIMER menu.



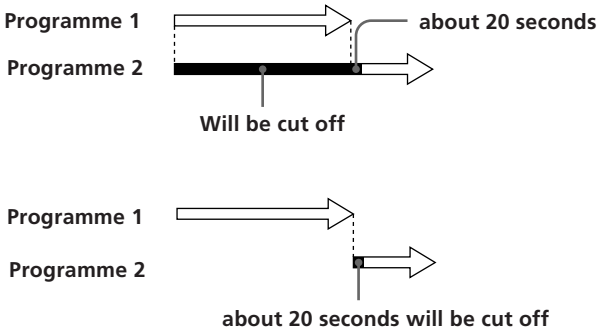
4
- To change the setting, press CURSOR ←/→ to flash the item you want to change, and press CURSOR ↑/↓ to reset it.
- To cancel the setting, press CLEAR.

5 Press OK.

If any settings remain, turn off the VCR to return to recording standby.

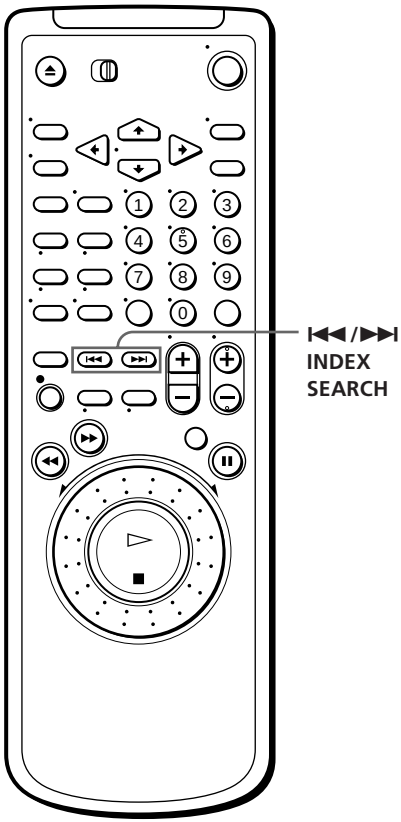
When the timer settings overlap

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



Searching using the index function

The VCR marks the tape with an index signal at the point where each recording begins. Use these signals as references to find a specific recording.

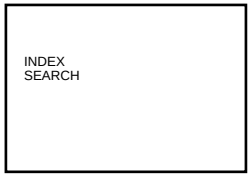


1 Insert an indexed tape into the VCR.

2 Press ⏮ / ⏭ INDEX SEARCH to specify the index signal ahead or behind you want to search:

- To search ahead, press ⏭ INDEX SEARCH.
- To search backwards, press ⏮ INDEX SEARCH.

The VCR starts searching and playback starts automatically from that point.



To stop searching

Press ■ STOP.

Note

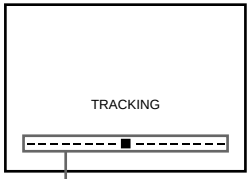
- No index signal will be added when recording starts from recording pause. However, an index signal will be marked if you change the programme position during recording pause.

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. In this case, manually adjust the tracking.

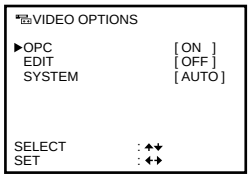
During playback, press TRACKING +/– on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons (the ⊠ indicator lights up). To resume automatic tracking adjustments, eject the tape and reinsert it.



Tracking meter

About Optimum Picture Control (OPC)

Optimum Picture Control (OPC) 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 OPC to ON in the VIDEO OPTIONS menu (with the OPC indicator in the display window lit). For details, see page 55.



OPC playback

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

OPC recording

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

To deactivate the OPC

Set OPC to OFF in the VIDEO OPTIONS menu. The OPC indicator in the display window goes off.

Tip

- To set tracking to the centre position, press the TRACKING + and – buttons at the same time.

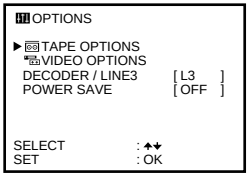
Notes

- You can adjust the tracking for the NTSC-recorded tape but the tracking meter won't be displayed.
- With the Auto Tape Speed function on, the OPC function will work only in SP mode. If the tape speed automatically switches from SP to LP, the OPC function turns off. If, however, the entire programme is recorded in LP mode, the OPC function will work.
- 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 OPC indicator flashes slowly) and press ● REC to have the VCR analyse the tape (the OPC indicator flashes rapidly). After the OPC indicator stops flashing, press ❚❚ PAUSE to start recording immediately. If you want to start recording quickly without using the OPC function, first set the VCR to recording pause (the OPC indicator flashes slowly) and press ❚❚ PAUSE to start recording.

Changing menu options

1 Press MENU, then select SETTINGS.

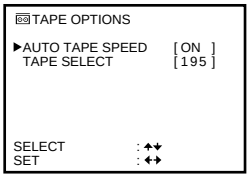
2 Select OPTIONS.

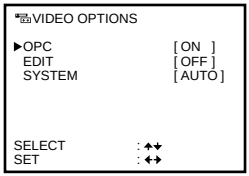


3 Press CURSOR ↑/↓ to select the option you want to change:

- To change the TAPE OPTIONS or VIDEO OPTIONS

  1 Press OK after selecting TAPE OPTIONS or VIDEO OPTIONS.





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

- To change the other options

  Press CURSOR ←/→ to change the setting.

4 Press OK to return to the original screen.

Menu choices

Initial settings are indicated in bold print.

TAPE OPTIONS menu choices

Menu option	Set this option to
AUTO TAPE SPEED	• ON to change the timer recording tape speed automatically to the LP mode when the remaining tape becomes shorter than the recording time. • **OFF** to keep the set tape speed.
TAPE SELECT	• 300 to use an E-300 type tape. • 240 to use an E-240 type tape. • **195** to use an E-195 or shorter type tape.

VIDEO OPTIONS menu choices

Menu option	Set this option to
OPC	• **ON** to switch on the OPC (Optimum Picture Control) function and improve picture quality. • OFF to switch off OPC.
EDIT	• ON to minimise picture deterioration when editing. • **OFF** to turn off EDIT.
SYSTEM	• **AUTO** to set the colour system automatically. • PAL to play back a tape recorded in the PAL colour system. • MESECAM to play back a tape recorded in the MESECAM colour system. For details, see page 32.

OPTIONS menu choices

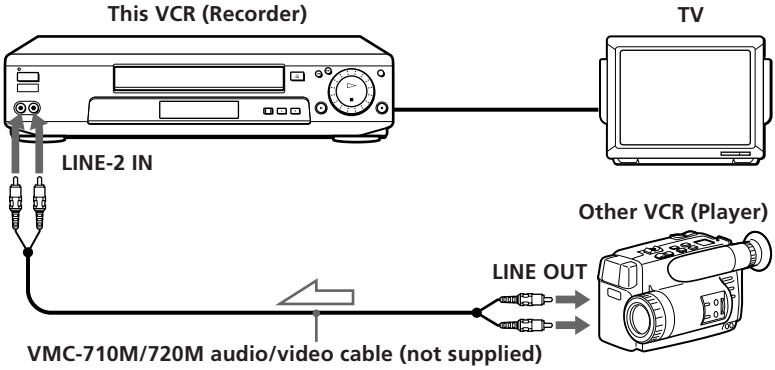
Menu option	Set this option to
DECODER/LINE3	• DEC. to use the DECODER/LINE-3 IN connector as the Canal Plus decoder connector. • **L3** to use the DECODER/LINE-3 IN connector as the line input connector.
POWER SAVE	• ON to turn off the indicators in the display window to conserve the VCR power. • **OFF** to turn on the indicators in the display window while the VCR is standing by.

Notes

- When you set a timer recording, the indicators in the display window remain on, even though POWER SAVE is set to ON.
- With the EDIT option ON, the OPC function does not work.

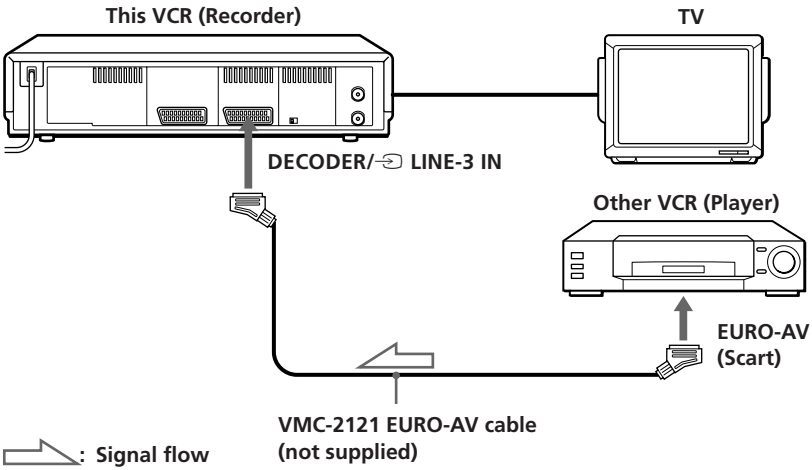
Connecting to a VCR

How to connect to record on this VCR



Notes

- Make sure you connect the plugs to jacks of the same colour.
- If the other VCR has the AUDIO L and R jacks, use the 3-phono to 2-phono type audio/video cable.
- 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.



Tip

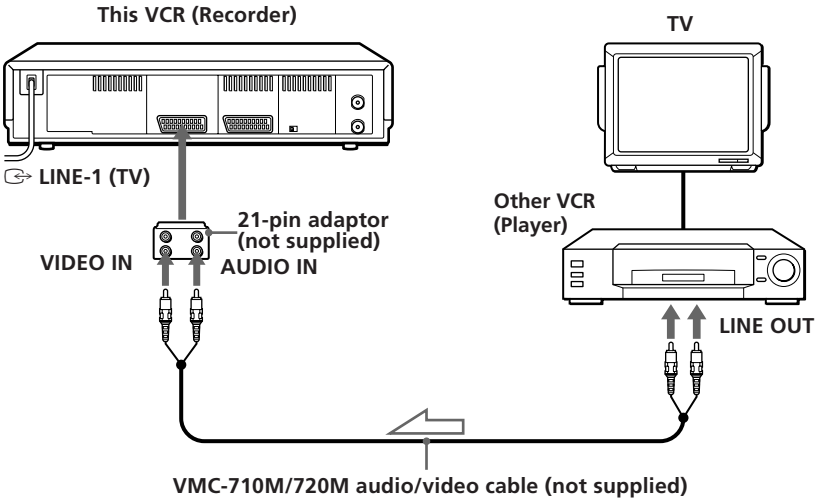
- You can also use the LINE-1 (TV) connector instead.

Note

- If the other VCR doesn't have a EURO-AV (Scart) connector, use the VMC-2106 cable instead and connect the cable to the line out jacks of the other VCR.

continued

Connecting to a VCR (continued)

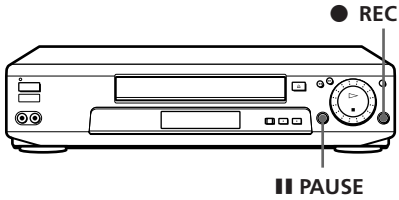


Notes

- Make sure you connect the plugs to jacks of the same colour.
- If the other VCR has the AUDIO L and R jacks, use the 3-phono to 2-phono type audio/video cable.
- 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.

Basic editing

(when recording on this VCR)



Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L2" ("L1", "L3") in the display window.
- Press SP/LP to select the tape speed, SP or LP.
- On this VCR, set EDIT in the VIDEO OPTIONS menu to ON. If the other VCR has a similar function, turn it on also.

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 to set it to recording pause.

4 To start editing, press the ❚❚ PAUSE buttons on both VCRs at the same time.

To stop editing

Press the ■ STOP buttons on both VCRs.

Tips

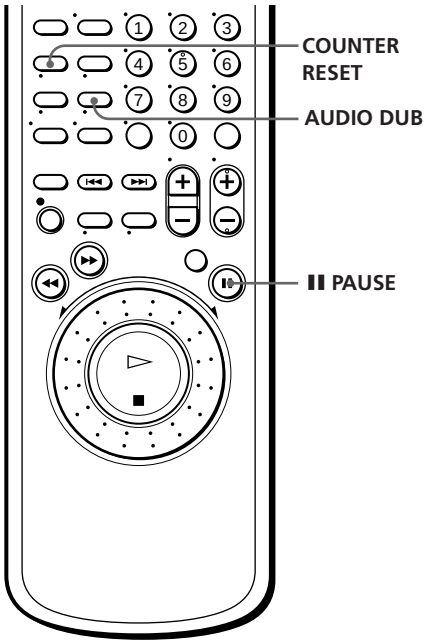
- To edit more precisely, press the ❚❚ PAUSE buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press ❚❚ PAUSE on this VCR when an unwanted scene begins. When it ends, press ❚❚ PAUSE again to resume recording (Assemble Editing).

Note

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

Audio dubbing

This feature lets you record over the normal audio track. The monaural sound previously recorded is replaced while the original sound remains unchanged. Use this feature to add commentary to a tape that you have recorded with a camcorder.



Before you start editing…

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L2" in the display window.

1 Insert a source tape into the stereo system (or the playback VCR). Search for the point to start playback and set it to playback pause.

2 Insert a prerecorded tape with its safety tab in place into this (recording) VCR. Search for the end of the section to be replaced and press II PAUSE.

3 Press COUNTER RESET to reset the counter to "0:00:00."

4 Rewind the prerecorded tape to the beginning of the section to be replaced.

The VCR pauses.

5 Press AUDIO DUB.

The audio dubbing indicator ⊖ appears in the display window.

6 To start editing, press the II PAUSE buttons on this VCR and the stereo system (or other VCR) at the same time.

When the counter reaches "0:00:00," audio dubbing stops automatically.

To stop while editing

Press the ■ STOP buttons on this VCR and the stereo system (or other VCR).

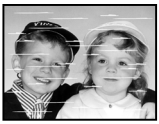
Troubleshooting

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.	• Connect the mains lead to the mains securely.
	The power is turned on but the VCR does not operate.	• 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.	• The clock stops if the VCR is disconnected from the mains for more than one hour. Reset the clock (and timer).
Playback	The playback picture does not appear on the TV screen.	• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.
	The picture is not clear.	• Adjust the tracking with the TRACKING +/– buttons. • The video heads are dirty (see below). Clean the video heads using the Sony T-25CLD, E-25CLDR, or T-25CLW 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 it 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.	• Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	• The tape is defective. Use a new tape.

Symptoms caused by contaminated video heads

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



initial contamination → **terminal**

continued

	Symptom	Remedy
Recording	No TV programme appears on the TV screen.	• 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.	• Adjust the TV aerial. • Make sure the TV system is correctly set for your TV. • Make sure SYSTEM (B/G or D/K) in the TUNER menu is set to the system in your area.
	The tape starts playing as soon as it is inserted.	• The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape is ejected when you press ● REC.	• Check that the safety tab has not been removed.
	Nothing happens when you press ● REC.	• Make sure the tape is not at its end. • Select the correct source with the INPUT SELECT button. Select a programme position when recording TV programmes; select "L1," "L2," or "L3" when recording from other equipment.
Timer recording	The timer does not operate.	• 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. • Check that the decoder is turned on. • Check that the satellite tuner is turned on. • The clock stops if the VCR is disconnected from the mains for more than one hour. Reset the clock and timer.

	Symptom	Remedy
Others	A tape cannot be inserted.	• Check that a tape isn't already in the tape compartment.
	The remote commander does not function.	• 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 indicator does not appear on the screen.	• The recording condition of the tape is very poor and tracking cannot be adjusted. • The tracking indicator does not appear when playing back an NTSC-recorded tape.
	You cannot control other TVs.	• Set your TV's code number. The code number resets to 01 when you replace the batteries of the remote commander.
	The VCR needs to be cleaned.	• Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.

Specifications

System

Channel coverage
- PAL (B/G, D/K)
- VHS E2-E12, R1-R12
- UHF E21-E69, R21-R69
- CATV S1-S41, S01-S05

RF output signal
- UHF channels 21 to 69

Aerial out
- 75-ohm asymmetrical aerial socket

Inputs and outputs

☞ LINE-1 (TV)
- 21-pin
- Video input: pin 20
- Audio input: pins 2 and 6
- Video output: pin 19
- Audio output: pins 1 and 3

LINE-2 IN
- VIDEO IN, phono jack (1)
- Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
- AUDIO IN, phone jack (1)
- Input level: 327 mVrms
- Input impedance: more than 47 kilohms

DECODER/→ LINE-3 IN
- 21-pin
- Video input: pin 20
- Audio input: pins 2 and 6

General

Power requirements
- 220 – 240 V AC, 50 Hz

Power consumption
- 23 W

Operating temperature
- 5°C to 40°C

Storage temperature
- –20°C to 60°C

Dimensions
- Approx. 430 × 100 × 314 mm (w/h/d) including projecting parts and controls

Mass
- Approx. 4.6 kg

Supplied accessories

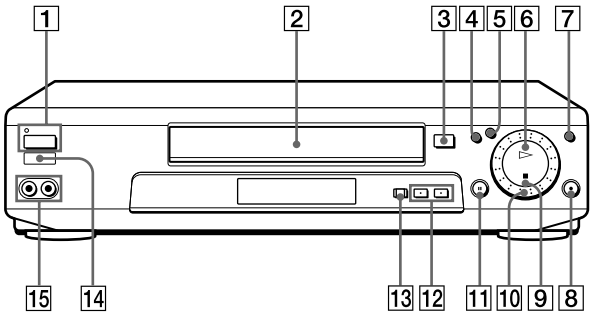
Remote commander (1)
R6 (size AA) batteries (2)
Aerial cable (1)

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 ON/STANDBY switch/indicator (11)

2 Tape compartment

3 ⏏ EJECT button (32)

4 ◀◀ REW (rewind) button (45)

5 ▶▶ FF (fast-forward) button (45)

6 ▷ PLAY button (45)

7 JOG button (46)

8 ● REC (record) button (59)

9 ■ STOP button (59)

10 Shuttle ring (46)

11 ❚❚ PAUSE button (59)

12 PROGRAM/TRACKING +/– buttons (12, 47, 52)

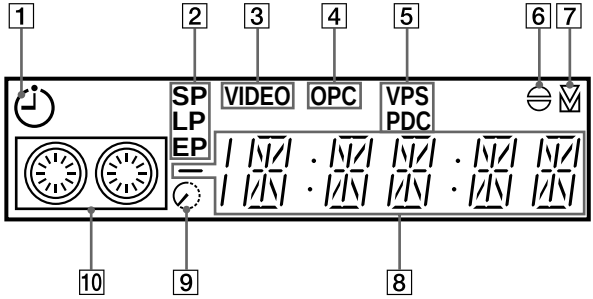
13 AUTO SET UP/ RF (Radio Frequency) CHANNEL button (11, 13)

14 Remote sensor (5)

15 LINE-2 IN VIDEO/AUDIO jacks (56)

continued

Display window



1 Timer indicator (39, 43)

2 Tape speed indicators (35)

3 VIDEO indicator (10, 36)

4 OPC (Optimum Picture Control) indicator (52)

5 VPS (Video Programme System)/ PDC (Programme Delivery Control) indicator (40)

6 Audio dubbing indicator (60)

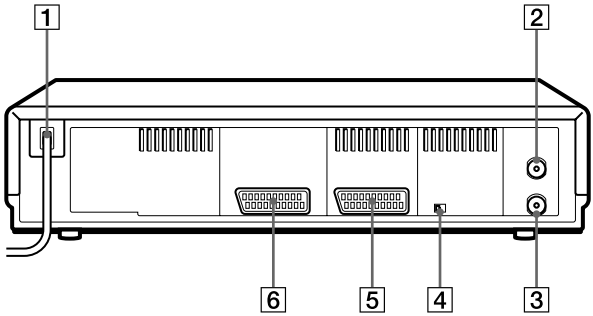
7 Tracking indicator (52)

8 Time counter/clock/line/ programme position indicator (33, 34, 59)

9 Remaining time indicator (36)

10 Tape/recording indicator (33, 35)

Rear panel



1 Mains lead (9)

2 AERIAL IN
ANTENNE ENTREE connector (9)

3 AERIAL OUT
ANTENNE SORTIE connector (9)

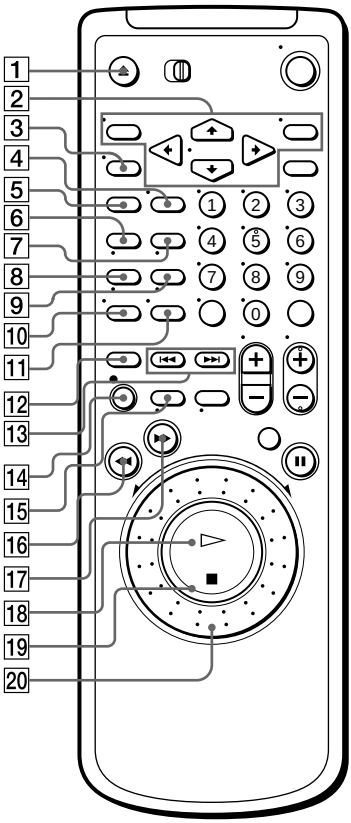
4 NTSC PB (playback) switch (32)

5 DECODER/⇆ LINE-3 IN
DECODEUR/⇆ ENTREE LIGNE-3
connector (27, 56)

6 ⇨ LINE-1 (TV)
⇨ LIGNE-1 (TV) connector (10, 27)

continued

Remote commander



1 ⏏ EJECT button (32)

2 Menu buttons (15, 42, 49, 54)

MENU button
CURSOR ↑/↓/←/→ buttons
OK button

3 WIDE button (*for TV*) (7)

4 AUDIO MONITOR button (7)

5 CLEAR button (26, 39, 50)

6 COUNTER RESET button* (33)

7 COUNTER/REMAIN button* (36)

8 QUICK TIMER button* (48)

9 AUDIO DUB button* (60)

10 TV/VIDEO button (10, 36)

11 DISPLAY button (36)

12 INPUT SELECT button (34, 43)

13 ⏮ / ⏭ INDEX SEARCH buttons (51)

14 ● REC (record) button (35)

15 SP/LP button (35)

▭ TV power on/TV mode select button *(for TV)* (6)

16 ◀◀ REW (rewind) button (32, 45)

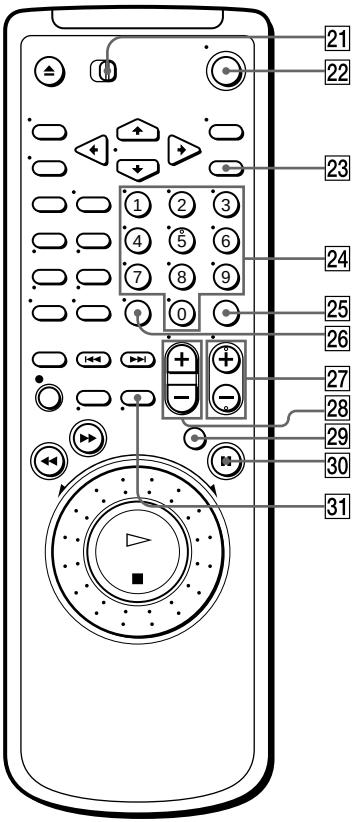
17 ▶▶ FF (fast-forward) button (32, 45)

18 ▷ PLAY button (31)

19 ■ STOP button (32)

20 Shuttle ring (46)

* FASTEXT buttons (*for TV*) (7)



21 TV/VIDEO remote control switch (5)

22 ON/STANDBY switch (6, 39)

23 SHOWVIEW button (38)

24 Programme number buttons (6, 22, 25, 39)

25 SET button (39)

26 –/-- (ten's digit) button (37)

27 PROG (programme) +/– buttons (6, 21, 35)

📖▲/📖▼ Teletext page access buttons *(for TV)* (7)

28 VOL (volume) +/– buttons *(for TV)* (6)

29 JOG button (46)

30 ❚❚ PAUSE button (32)

31 REPLAY button (32)

📖 (Teletext) button *(for TV)* (6)

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