SONY

Video Cassette Recorder

Operating Instructions

VHS
PAL NTSC 4.43

Hi-Fi

SHOWVIEW

SLV-SE80EN/EG

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 a 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 three hours 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.

Table of contents

* 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
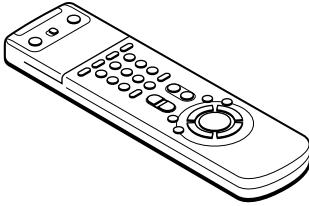
• Aerial cable
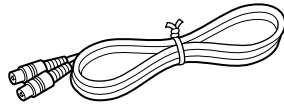
• R6 (size AA) batteries
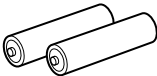
• EURO-AV cable
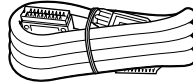
• Audio cable
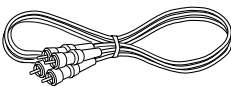
Checking your model name

The instructions in this manual are for the 2 models: SLV-SE80EN and SE80EG. Check your model number by looking at the rear panel of your VCR. The SLV-SE80EN is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, "SLV-SE80EN only."

Step 2

Setting up the remote commander

Inserting the batteries

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

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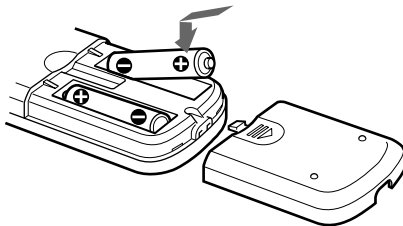
Using the remote commander

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

Remote sensor
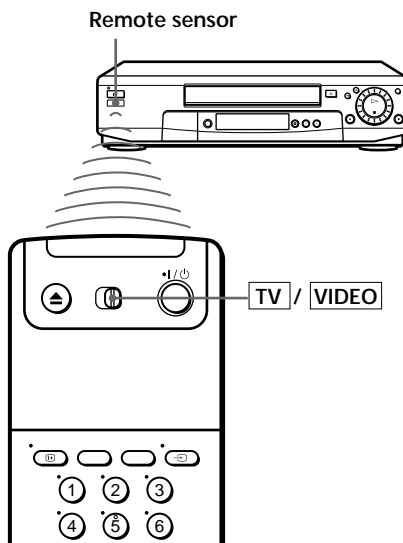
TV / VIDEO

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

Step 2 : Setting up the remote commander (continued)

WIDE

AUDIO MONITOR

FASTEXT buttons

(i+) DISPLAY

–/––

I/(¹)

(≡)

(□)

↩ TV/VIDEO

Programme number buttons

PROG+/–/
(≡▲)/(≡▼)

◁ +/–
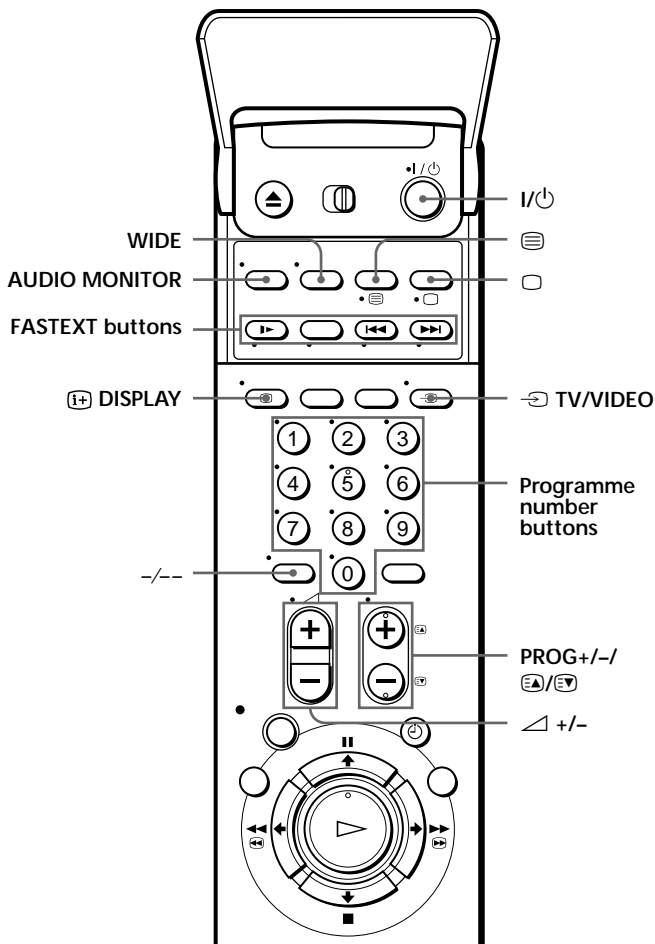
TV control buttons

To	Press
Turn the TV into standby mode	I/(¹)
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 +/–

To	Press
Adjust the volume of the TV	∠ +/−
Switch to TV (Teletext off)	◯ (TV)
Switch to Teletext	▤ (Teletext)
Select the sound	AUDIO MONITOR
Use FASTEXT	FASTEXT buttons
Call up on-screen display	⊞ DISPLAY
Change the Teletext page	▤▲/▤▼
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.
- Some buttons may not work with certain Sony TVs.

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 on the next page, set the appropriate manufacturer's code number.

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

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

Now you can use the following TV control buttons to control your TV: I/⏻, ⊸ TV/VIDEO, programme number buttons, −/−− (ten's digit), PROG +/−, ∠ +/−, ◯ (TV), ▤ (Teletext), FASTEXT buttons, WIDE*, MENU*, ♠*/♣*/◀*/▶*, 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.

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	Manufacturer	Code number
Sony	01[*1], 02	Panasonic	17[*1], 49
Akai	68	Philips	06[*1], 07[*1], 08[*1]
Ferguson	52	Saba	12, 13
Grundig	10[*1], 11[*1]	Samsung	22, 23
Hitachi	24	Sanyo	25
JVC	33	Sharp	29
Loewe	45	Telefunken	36
Mivar	09, 70	Thomson	43[*2]
NEC	66	Toshiba	38
Nokia	15, 16, 69[*3]		

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

[*2] Press WIDE, then press $\angle$ +/– to select the wide picture mode you want.

[*3] Press WIDE. The menu appears on the TV screen. Then, press ↑/↓/←/→ 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 may change. Set the appropriate code number every time you replace the batteries.

Step 3

Connecting the VCR

If your TV does not have a EURO-AV connector, see page 12.

If your TV has a EURO-AV (Scart) connector

AERIAL IN

Mains lead

⟳ LINE-1 (TV)

AERIAL OUT

to mains

AERIAL IN

Aerial cable (supplied)

▷ : Signal flow

EURO-AV (Scart)

EURO-AV cable (supplied)

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

AERIAL ANTENNE
IN ENTREE
OUT SORTIE

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

AERIAL ANTENNE
IN ENTREE
OUT SORTIE

continued

3 Connect LINE-1 (TV) on the VCR and the EURO-AV (Scart) connector on the TV with the optional EURO-AV cable.

This connection improves picture and sound quality. Whenever you want to watch the VCR picture, press ⊖ TV/ VIDEO to display the VIDEO indicator in the display window.
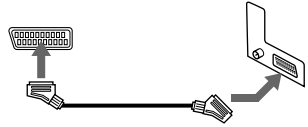
4 Connect the mains lead to the mains.

Note
• If the TV is connected to the LINE-1 (TV) connector, setting the RF MODULATOR in the OPTIONS-2 menu to OFF is recommended. In the OFF position, only the signal from the aerial is output through the AERIAL OUT connector (see page 73). You do not have to tune your TV to the VCR. Skip "Tuning your TV to the VCR" on page 14.

About the SMARTLINK features

If the connected TV complies with SMARTLINK, MEGALOGIC[*1], EASYLINK[*2], Q-Link[*3], or EURO VIEW LINK[*4], you can use the SMARTLINK function after you complete the steps on the previous page (the SMARTLINK indicator appears in the VCR's display window when you turn on the TV). You can enjoy the following SMARTLINK features.

SMARTLINK
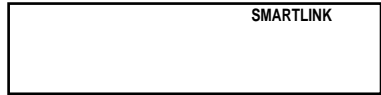
• Preset Download
  You can download your TV tuner preset data to this VCR and tune the VCR according to that data in Auto Set Up. This greatly simplifies the Auto Set Up procedure. Be careful, not to disconnect the cables or exit the Auto Set Up function during the procedure.

  See "Setting up the VCR with the Auto Set Up function" on page 16.

• TV Direct Rec
  You can easily record what you are watching on the TV (other than tapes being played on this VCR). For details, see "Recording what you are watching on the TV (TV Direct Rec)" on page 47.

• One Touch Play
  With One Touch Play, you can start playback automatically without turning on the TV. For details, see "Starting playback automatically with one button (One Touch Play)" on page 42.

• One Touch Menu
  You can turn on the VCR and TV, set the TV to the video channel, and display the VCR's on-screen display automatically by pressing MENU on the remote commander.

• One Touch Timer
  You can turn on the VCR and TV, set the TV to the video channel, and display the timer recording menu (the TIMER METHOD menu, the TIMER menu, or the SHOWVIEW menu) automatically by pressing ⏲ TIMER on the remote commander. You can set which timer recording menu is displayed using TIMER OPTIONS in the OPTIONS-2 menu (see page 73).

• Automatic Power Off
  You can have the VCR turn off automatically, if the VCR is not used after you turn off the TV.

[*1] "MEGALOGIC" is a registered trademark of Grundig Corporation.
[*2] "EASYLINK" is a trademark of Philips Corporation.
[*3] "Q-Link" is a trademark of Panasonic Corporation.
[*4] "EURO VIEW LINK" is a trademark of Toshiba Corporation.

Note
• Not all the TVs respond to the functions above.

If your TV does not have a EURO-AV (Scart) connector

AERIAL IN

AERIAL OUT

Mains lead

to mains

AERIAL IN

Aerial cable (supplied)
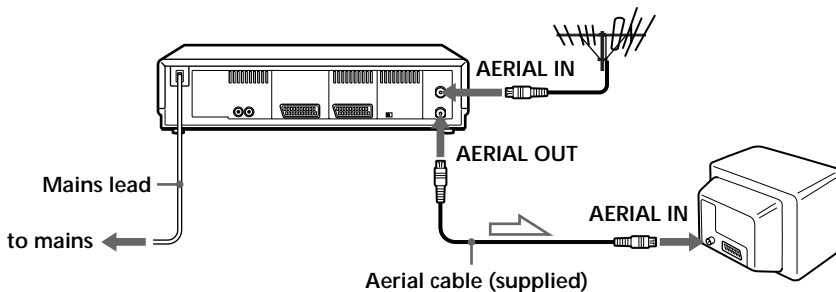
⊃⟍ : Signal flow

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

AERIAL
ANTENNE
IN
ENTREE

OUT
SORTIE

2   Connect AERIAL OUT of the VCR and the aerial input of your TV using the supplied aerial cable.
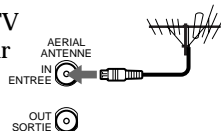
AERIAL
ANTENNE
IN
ENTREE

OUT
SORTIE
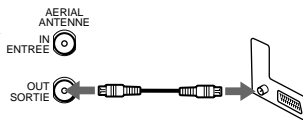
3   Connect the mains lead to the mains.

Note
• When you connect the VCR and your TV only with an aerial cable, you have to set RF MODULATOR in the OPTIONS-2 menu to ON (initial setting) (see page 73).

Additional connections

To a stereo system

You can improve sound quality by connecting a stereo system to the AUDIO OUT R/L jacks as shown on the right.

AUDIO OUT R/L

LINE IN

Audio cable (supplied)

⟹ : **Signal flow**
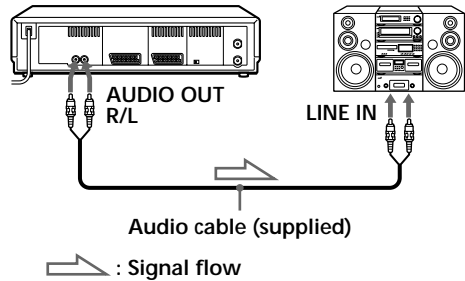
To a TV that has audio/video (A/V) input jacks (SLV-SE80EG only)

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.

LINE-2 VIDEO/ AUDIO R/L OUT

LINE IN

Audio/video cable (not supplied)

⟹ : **Signal flow**
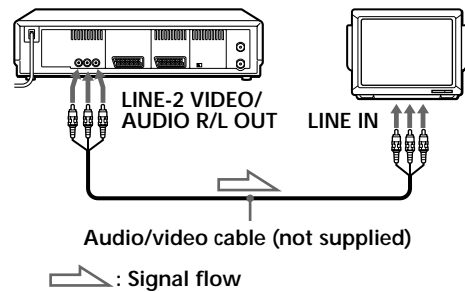
To a satellite tuner

You can watch programmes from the satellite tuner connected to this VCR on the TV even when the VCR is turned off using the Line Through function. When you turn on the satellite tuner, this VCR automatically sends the signal from the satellite tuner to the TV without turning itself on.

DECODER/ ⌁ LINE-3 IN

LINE OUT

EURO-AV cable (not supplied)

⟹ : **Signal flow**
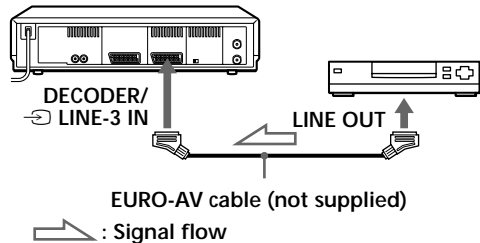
1   Connect the satellite tuner to the DECODER/⌁ LINE-3 IN connector as shown above.

2   Set DECODER/LINE 3 to LINE 3 in the OPTIONS-2 menu.

3   Set POWER SAVE to OFF in the OPTIONS-2 menu.

4   Turn off the VCR.

   To watch a satellite programme, turn on the satellite tuner and the TV.

   Note
   • You cannot watch satellite programmes on the TV while recording unless you record a satellite programme.

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.

I/(¹) ON/STANDBY   PROGRAM +/−

RF CHANNEL

---
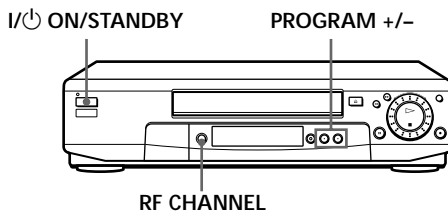
1 ○ ON/STANDBY
   I/(¹)

Press I/(¹) ON/STANDBY to turn on the VCR.

---

2 RF CHANNEL

Press RF CHANNEL on the VCR lightly.

The factory-preset RF channel appears in the display window.

The VCR signal is output through this channel to the TV.

$$RF \ 32$$
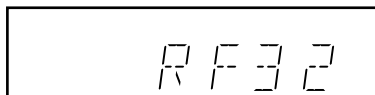
3

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.

$$RF \ 32K$$

---

14 Getting Started
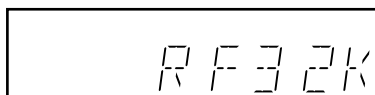
5 − PROGRAM +   Press PROGRAM +/– (repeatedly) to select the appropriate TV system for your area. Select "G" for the B/G TV system, or "K" for the D/K TV system.

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

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Refer to your TV manual for tuning instructions.

If you select the wrong TV system in step 5, the picture on the right may not appear. Select the appropriate TV system and tune the TV again.

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 screen 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, 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, TV channels, guide channels for the ShowView system.
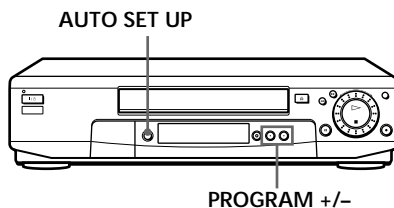
AUTO SET UP

PROGRAM +/−

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 appears in the display window.

```
  E L S E
```
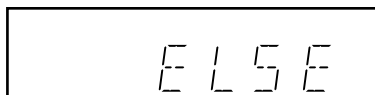
2 − PROGRAM + Press PROGRAM +/− to select the abbreviation of your country.

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.

3

AUTO
SET UP

Press AUTO SET UP lightly.

The VCR starts searching for all of the receivable channels and presets them according to the TV system you selected in "Tuning your TV to the VCR."

```
▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲
▸
    5 E T U P ▸
◂
▸
▾ ▾ ▾ ▾ ▾ ▾ ▾ ▾ ▾ ▾ ▾
```

If you use the SMARTLINK connection, the Preset Download function starts and the SMARTLINK indicator flashes in the display window during download.

After the search or download 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 23.

Note
• Do not cancel the Auto Set Up function during step 3. 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.

Setting the clock manually

Before you start…
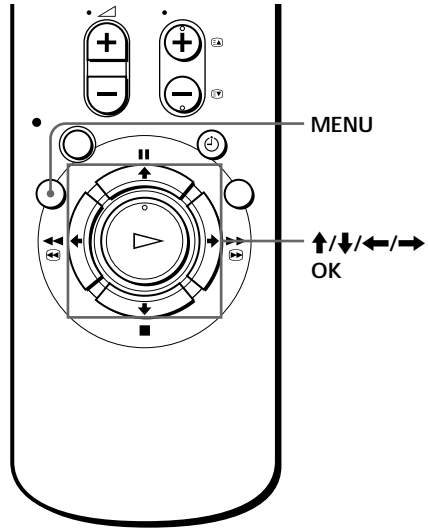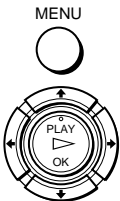
- Turn on the VCR and the TV.
- Set the TV to the video channel.

MENU

↑/↓/←/→
OK

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

```
┌──────────────────────────────┐
│ ▦  SETTINGS                   │
│                               │
│ TUNER                         │
│ CLOCK                         │
│ LANGUAGE                      │
│ ⇱RETURN                       │
│                               │
│                               │
│ SELECT  : ↑↓                  │
│ SET     : OK                  │
│                     EXIT : MENU│
└──────────────────────────────┘
```

2 PLAY Press ↑/↓ to highlight CLOCK, then press OK.

```
┌──────────────────────────────┐
│ ▦  CLOCK                      │
│                               │
│ AUTO ADJUST         OFF       │
│ CLOCK PROG                    │
│ MANUAL ADJUST                 │
│     1 . 1 . 1 9 9 9  FRI  0 : 0 0│
│                               │
│                               │
│ SELECT  : ↑↓                  │
│ SET     : OK                  │
│                     EXIT : MENU│
└──────────────────────────────┘
```
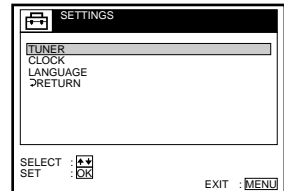
3 Press ↑/↓ to highlight MANUAL ADJUST, then press OK.

```
┌─────────────────────────────────┐
│ 🗄  CLOCK                         │
│                                  │
│ AUTO ADJUST          ┌─────┐     │
│                      │ OFF │     │
│ CLOCK PROG           └─────┘     │
│ MANUAL ADJUST                    │
│     1 . 1 . 1999   FRI    0 : 00 │
│                                  │
│                                  │
│ SELECT   : ◄►                    │
│ SET      : ▲▼                    │
│ CONFIRM  : OK                    │
│                      EXIT : MENU │
└─────────────────────────────────┘
```

4 Press ↑/↓ to set the date.

```
┌─────────────────────────────────┐
│ 🗄  CLOCK                         │
│                                  │
│ AUTO ADJUST          ┌─────┐     │
│                      │ OFF │     │
│ CLOCK PROG           └─────┘     │
│ MANUAL ADJUST                    │
│    28 . 1 . 1999   TUE    0 : 00 │
│                                  │
│                                  │
│ SELECT   : ◄►                    │
│ SET      : ▲▼                    │
│ CONFIRM  : OK                    │
│                      EXIT : MENU │
└─────────────────────────────────┘
```
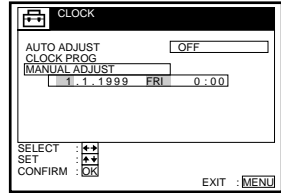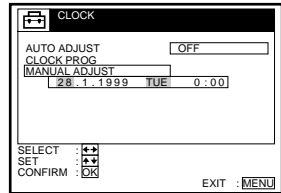
5 Press ➡ to highlight the month and set the month pressing ↑/↓.

```
┌─────────────────────────────────┐
│ 🗄  CLOCK                         │
│                                  │
│ AUTO ADJUST          ┌─────┐     │
│                      │ OFF │     │
│ CLOCK PROG           └─────┘     │
│ MANUAL ADJUST                    │
│    28 . 9 . 1999   TUE    0 : 00 │
│                                  │
│                                  │
│ SELECT   : ◄►                    │
│ SET      : ▲▼                    │
│ CONFIRM  : OK                    │
│                      EXIT : MENU │
└─────────────────────────────────┘
```
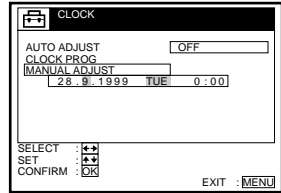
6 Set the year, hour, and minutes in sequence, pressing ➡ to highlight the item to be set, and press ↑/↓ to select the digits.

The day of the week is set automatically.

```
┌─────────────────────────────────┐
│ 🗄  CLOCK                         │
│                                  │
│ AUTO ADJUST          ┌─────┐     │
│                      │ OFF │     │
│ CLOCK PROG           └─────┘     │
│ MANUAL ADJUST                    │
│    28 . 9 . 1999   TUE   18 : 00 │
│                                  │
│                                  │
│ SELECT   : ◄►                    │
│ SET      : ▲▼                    │
│ CONFIRM  : OK                    │
│                      EXIT : MENU │
└─────────────────────────────────┘
```

Getting Started
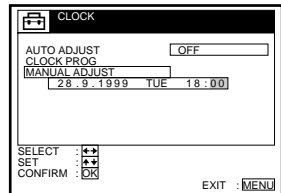
Step 6 : Setting the clock (continued)

7 Press OK to start the clock.

PLAY
▷
OK

```
┌─────────────────────────────────┐
│  ⊞  CLOCK                        │
│                                  │
│ AUTO ADJUST            [ OFF ]   │
│ CLOCK PROG                       │
│ MANUAL ADJUST                    │
│      28.9.1999   TUE   18:00     │
│                                  │
│                                  │
│                                  │
│ SELECT : ↑↓                      │
│ SET    : OK                      │
│                      EXIT : MENU │
└─────────────────────────────────┘
```
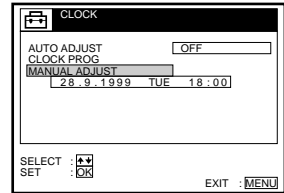
8 MENU Press MENU to exit the menu.

Tips
• To change the digits during setting, press ← to return to the item to be changed, and select the digits pressing ↑/↓.
• If you want to return to the previous menu, highlight RETURN and press OK.

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

Before you start…
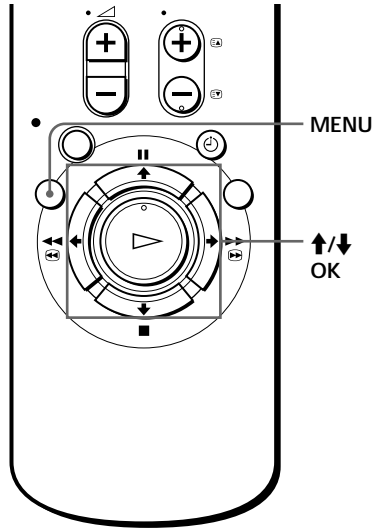
- Turn on the VCR and the TV.
- Set the TV to the video channel.

MENU

↑/↓
OK

1

MENU

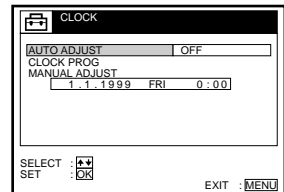Press MENU, then press ↑/↓ to highlight SETTINGS and press OK.

```
┌──┐  SETTINGS
└──┘

TUNER
CLOCK
LANGUAGE
 RETURN



SELECT  : ↑↓
SET     : OK
                      EXIT  : MENU
```

2

Press ↑/↓ to highlight CLOCK, then press OK.

AUTO ADJUST is highlighted.

```
┌──┐  CLOCK
└──┘

AUTO ADJUST          OFF
CLOCK PROG
MANUAL ADJUST
    28 . 9 . 1999   TUE   18 : 00



SELECT  : ↑↓
SET     : OK
                      EXIT  : MENU
```

3

Press OK.

```
┌──┐  CLOCK
└──┘

AUTO ADJUST          ON
CLOCK PROG           OFF
MANUAL ADJUST
    28 . 9 . 1999   TUE   18 : 00



SELECT   : ↑↓
CONFIRM  : OK
                      EXIT  : MENU
```

continued

Getting Started
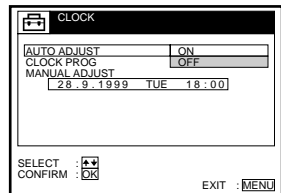
Step 6 : Setting the clock (continued)

4 Press ↑/↓ to highlight ON, then press OK.

```
        CLOCK

AUTO ADJUST          ON
CLOCK PROG           1    AAB
MANUAL ADJUST
      28 . 9 . 1999   TUE    18 : 00




SELECT  : ↑↓
SET     : OK
                        EXIT  : MENU
```
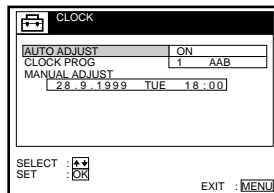
5 Press ↓ to highlight CLOCK PROG, then press OK.

```
        CLOCK

AUTO ADJUST
CLOCK PROG           1    AAB
MANUAL ADJUST
      28 . 9 . 1999   TUE    18 : 00




SELECT  : ↑↓
CONFIRM : OK
                        EXIT  : MENU
```
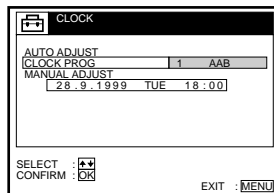
6 Press ↑/↓ repeatedly until the programme position of the station that carries the time signal appears.

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

```
        CLOCK

AUTO ADJUST
CLOCK PROG           2    CDE
MANUAL ADJUST
      28 . 9 . 1999   TUE    18 : 00




SELECT  : ↑↓
CONFIRM : OK
                        EXIT  : MENU
```
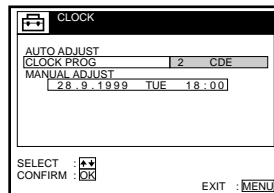
7 MENU   Press MENU to exit the menu.

Tips
- If you set AUTO ADJUST to ON, the Auto Clock Set function is activated whenever the VCR is turned off. The 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.
- If you want to return to the previous menu, highlight RETURN and press OK.

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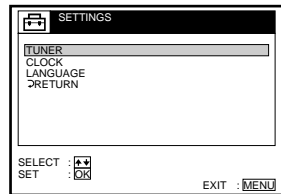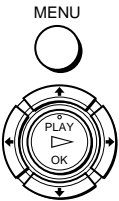
Selecting a language

You can change the on-screen display language from the one you selected with the Auto Set Up function.
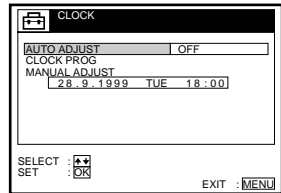
Before you start…
- Turn on the VCR and the TV.
- Set the TV to the video channel.

MENU

↑/↓
OK

---

1 MENU

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

PLAY
▷
OK

```
⊞  SETTINGS

TUNER
CLOCK
LANGUAGE
⊃RETURN



SELECT : ↑↓
SET    : OK
              EXIT  : MENU
```

2

PLAY
▷
OK
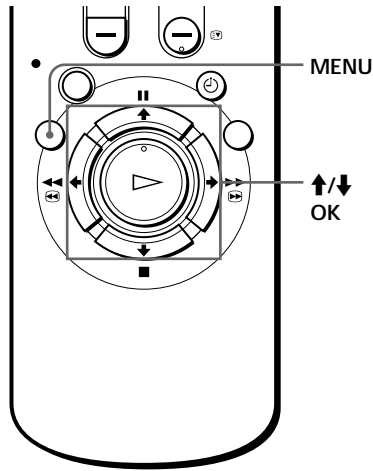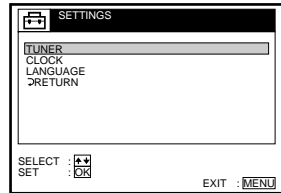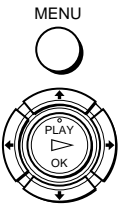
Press ↑/↓ to highlight LANGUAGE, then press OK.

```
⊞  LANGUAGE


ENGLISH
POLSKI
ČESKÝ
MAGYAR
РУССКИЙ


SELECT : ↑↓
SET    : OK
              EXIT  : MENU
```

3

PLAY
▷
OK
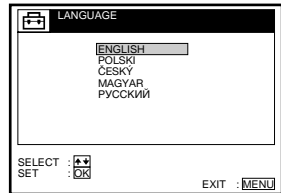
Press ↑/↓ to highlight the desired language, then press OK.

---

4 MENU

Press MENU to exit the menu.

Tip
- If you want to return to the previous menu, highlight RETURN and press OK.

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

Getting Started 23

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.
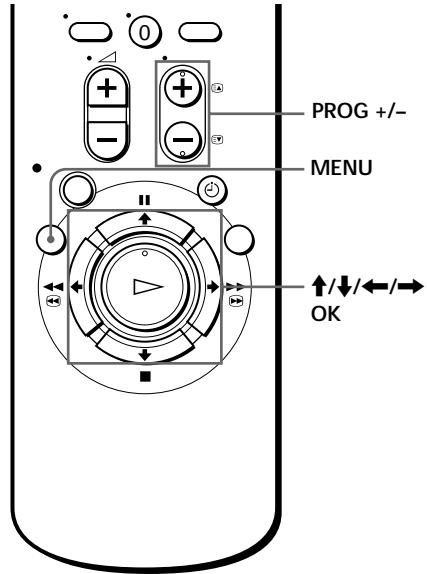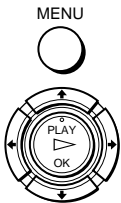
PROG +/–

MENU

↑/↓/←/→
OK

---

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

SETTINGS
TUNER
CLOCK
LANGUAGE
⊃RETURN
SELECT : ↑↓
SET : OK
EXIT : MENU

PLAY
OK

---

2 PLAY OK   Press ↑/↓ to highlight TUNER, then press OK.

TUNER	PROG. 1
SYSTEM	D / K
NORMAL / CATV	NORMAL
CHANNEL SET	C 1 2 AAB
PAY - TV / CANAL+	OFF
AFT	ON
FINE TUNING	
⊃RETURN	
SELECT : ↑↓	
SET : OK	
	EXIT : MENU

3

Press ↑/↓ to highlight NORMAL/CATV, then press OK.

```
┌──────────────────────────────────────┐
│ 🔲 TUNER                              │
│                          PROG.    1  │
│ SYSTEM                               │
│ NORMAL / CATV            NORMAL      │
│ CHANNEL SET             CATV         │
│ PAY - TV / CANAL+                    │
│ AFT                     ON           │
│ FINE TUNING                          │
│ ⊃RETURN                              │
│                                      │
│                                      │
│ SELECT   : ↑↓                        │
│ CONFIRM  : OK                        │
│                          EXIT : MENU │
└──────────────────────────────────────┘
```

4

Press ↑/↓ to highlight NORMAL, then press OK.

To preset CATV (Cable Television) channels, select CATV.

```
┌──────────────────────────────────────┐
│ 🔲 TUNER                              │
│                          PROG.    1  │
│ SYSTEM                   D / K       │
│ NORMAL / CATV            NORMAL      │
│ CHANNEL SET             C12    AAB   │
│ PAY - TV / CANAL+       OFF          │
│ AFT                     ON           │
│ FINE TUNING                          │
│ ⊃RETURN                              │
│                                      │
│ SELECT   : ↑↓                        │
│ SET      : OK                        │
│                          EXIT : MENU │
└──────────────────────────────────────┘
```

5 • PROG

Press PROG +/– to select the programme position.

Selected programme position

```
┌──────────────────────────────────────┐
│ 🔲 TUNER                              │
│                          PROG.  ④    │
│ SYSTEM                   D / K       │
│ NORMAL / CATV            NORMAL      │
│ CHANNEL SET             C12    AAB   │
│ PAY - TV / CANAL+       OFF          │
│ AFT                     ON           │
│ FINE TUNING                          │
│ ⊃RETURN                              │
│                                      │
│ SELECT   : ↑↓                        │
│ SET      : OK                        │
│                          EXIT : MENU │
└──────────────────────────────────────┘
```

6

Press ↑/↓ to highlight CHANNEL SET, then press OK.

```
┌──────────────────────────────────────┐
│ 🔲 TUNER                              │
│                          PROG.    4  │
│ SYSTEM                   D / K       │
│ NORMAL / CATV                        │
│ CHANNEL SET             C12    AAB   │
│ PAY - TV / CANAL+                    │
│ AFT                     ON           │
│ FINE TUNING                          │
│ ⊃RETURN                              │
│                                      │
│ SELECT   : ↑↓                        │
│ CONFIRM  : OK                        │
│                          EXIT : MENU │
└──────────────────────────────────────┘
```
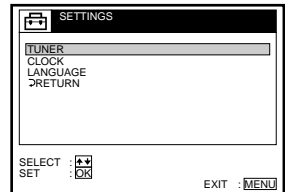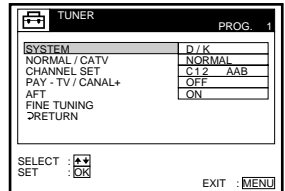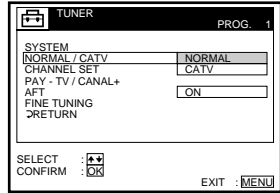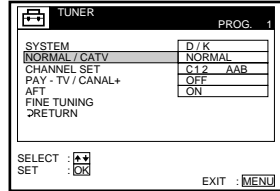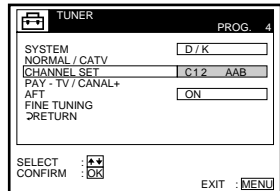
Getting Started

7 Press ↑/↓ repeatedly until the channel you want is displayed.

The channels appear in the following order:

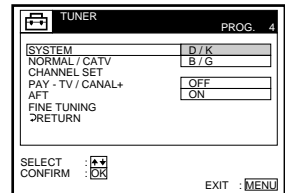| B/G TV system		D/K TV system	
Channel number in the CHANNEL SET field	Receivable Channel	Channel number in the CHANNEL SET field	Receivable Channel
C02	E2	C02	R1
C03	E3	C05	R6
C04	E4	C06	R7
C05	E5	C12	R12
C06	E6	C13	R2
C07	E7	C14	R3
C08	E8	C15	R4
C09	E9	C16	R5
C10	E10	C17	R8
C11	E11	C18	R9
C12	E12	C19	R10
C21–C69	E21–E69	C20	R11
S01–S41	S1–S41	C21–C69	R21–R69
S42–S46	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."

8 If the TV sound is distorted or noisy, press ↑/↓ to highlight SYSTEM and press OK. Then press ↑/↓ to select B/G or D/K so that you get the better sound.

```
┌─────────────────────────────────┐
│ ▦ TUNER              PROG.   4  │
│                                 │
│ SYSTEM                 D / K    │
│ NORMAL / CATV          B / G    │
│ CHANNEL SET                     │
│ PAY - TV / CANAL+      OFF      │
│ AFT                    ON       │
│ FINE TUNING                     │
│ ⊃RETURN                         │
│                                 │
│ SELECT    : ↑↓                  │
│ CONFIRM   : OK                  │
│                    EXIT : MENU  │
└─────────────────────────────────┘
```

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

10 MENU Press MENU to exit the menu.

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.
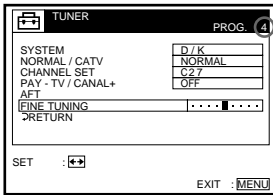
1 In step 7 above, press programme number button "0" twice to display the number "00" beside CHANNEL SET.

2 Press MENU to exit the menu.

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 position 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, then press OK.

The fine tuning meter appears.

```
┌─────────────────────────────┐
│ 🎛 TUNER                     │          Selected programme
│                    PROG. ④ ──────────── position
│ SYSTEM              D / K     │
│ NORMAL / CATV       NORMAL    │
│ CHANNEL SET         C 27      │
│ PAY - TV / CANAL+   OFF       │
│ AFT                          │
│ FINE TUNING      · · · · ▮ · · · · │
│ ⊃RETURN                      │
│                              │
│ SET      : ◄─►               │
│                    EXIT : MENU │
└─────────────────────────────┘
```

5 Press ←/→ to get a clearer picture, then press MENU to exit the menu.

Note that the AFT (Auto Fine Tuning) setting switches to OFF.

Tip
• If you want to return to the previous menu, highlight RETURN and press OK.

Note
• The menu disappears automatically if you don't proceed for more than a few minutes.
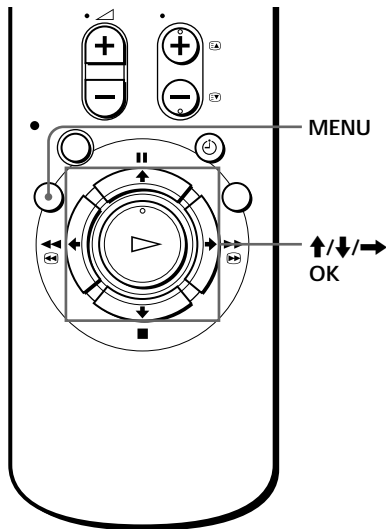
Getting Started

Changing/ disabling programme positions

After setting the channels, you can change the programme positions and station names as you like. If any programme positions are unused or contain unwanted channels, you can disable them.

Changing programme positions

Before you start…

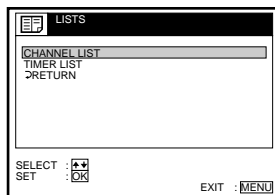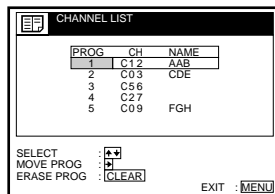- Turn on the VCR and the TV.
- Set the TV to the video channel.

1 MENU	Press MENU, then press ↑/↓ to highlight LISTS and press OK.	**LISTS** CHANNEL LIST TIMER LIST ⊃RETURN SELECT : ↑↓ SET : OK EXIT : MENU
2	Press ↑/↓ to highlight CHANNEL LIST, then press OK.	**CHANNEL LIST** PROG CH NAME 1 C12 AAB 2 C03 CDE 3 C56 4 C27 5 C09 FGH SELECT : ↑↓ MOVE PROG : → ERASE PROG : CLEAR EXIT : MENU

MENU

↑/↓/→
OK

3
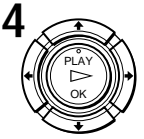
Press ↑/↓ to highlight the row on which you want to change the programme position, then press ➡.

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

```
┌──┐  CHANNEL LIST
│▤▤│
└──┘
      PROG    CH      NAME
       1      C03     AAB
       2      C03     CDE
       3      C56
       4      C27
       5      C09     FGH

SELECT              : ↑↓
SET STATION NAME    : ➡
CONFIRM             : OK
                              EXIT  : MENU
```

4

Press ↑/↓ until the selected channel row moves to the desired programme position.

The selected channel is inserted at the new programme position and the intermediate channels are displaced to fill the gap.

```
┌──┐  CHANNEL LIST
│▤▤│
└──┘
      PROG    CH      NAME
       1      C03     CDE
       2      C56
       3      C12     AAB
       4      C27
       5      C09     FGH

SELECT              : ↑↓
SET STATION NAME    : ➡
CONFIRM             : OK
                              EXIT  : MENU
```

5

Press OK to confirm the setting.

6

To change the programme position of another station, repeat steps 3 to 5.

7 MENU

Press MENU to exit the menu.

Tip
• If you want to return to the previous menu, highlight RETURN and press OK.

Note
• The menu disappears automatically if you don't proceed for more than a few minutes.
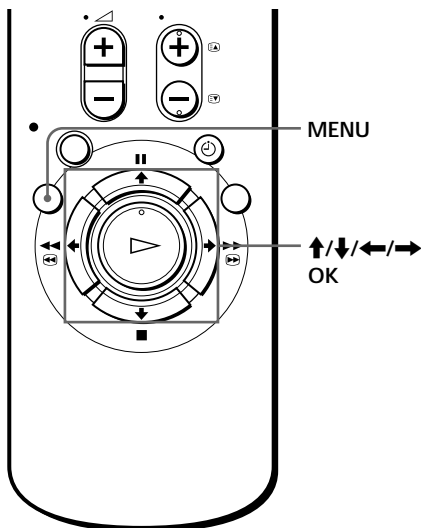
Getting Started

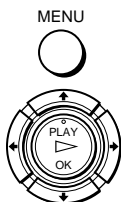## Changing/disabling programme positions (continued)

Changing the station names

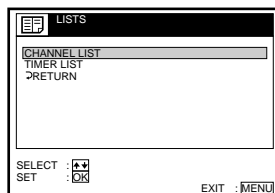You can change the station names (up to 5 characters).

Before you start…
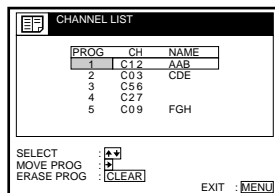- Turn on the VCR and the TV.
- Set the TV to the video channel.

MENU

↑/↓/←/→
OK

---

1 Press MENU, then press ↑/↓ to highlight LISTS and press OK.

```
┌──────────────────────────────┐
│ 📄 LISTS                       │
│                               │
│ CHANNEL LIST                  │
│ TIMER LIST                    │
│ ⊃RETURN                       │
│                               │
│                               │
│                               │
│ SELECT  : ↑↓                  │
│ SET     : OK                  │
│                    EXIT : MENU│
└──────────────────────────────┘
```

---

2 Press ↑/↓ to highlight CHANNEL LIST, then press OK.

```
┌──────────────────────────────┐
│ 📄 CHANNEL LIST                │
│                               │
│   PROG    CH      NAME        │
│    1     C12     AAB          │
│    2     C03     CDE          │
│    3     C56                  │
│    4     C27                  │
│    5     C09     FGH          │
│                               │
│ SELECT      : ↑↓              │
│ MOVE PROG   : →               │
│ ERASE PROG  : CLEAR           │
│                    EXIT : MENU│
└──────────────────────────────┘
```
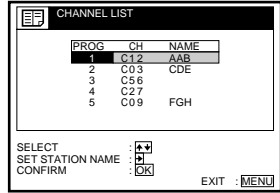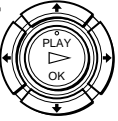

3

Press ↑/↓ to highlight the row on which you want to change the station name, then press ➡.

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

```
┌─────────────────────────────────┐
│ [≣] CHANNEL LIST                │
│                                 │
│    PROG    CH      NAME         │
│     1      C 1 2   AAB          │
│     2      C 0 3   CDE          │
│     3      C 5 6                │
│     4      C 2 7                │
│     5      C 0 9   FGH          │
│                                 │
│ SELECT            : ↑↓          │
│ SET STATION NAME  : ➡           │
│ CONFIRM           : OK          │
│                    EXIT  : MENU │
└─────────────────────────────────┘
```

4

Press ➡.

```
┌─────────────────────────────────┐
│ [≣] CHANNEL LIST                │
│                                 │
│    PROG    CH      NAME         │
│     1      C 1 2   AAB          │
│     2      C 0 3   CDE          │
│     3      C 5 6                │
│     4      C 2 7                │
│     5      C 0 9   FGH          │
│                                 │
│ SELECT A CHARACTER : ↑↓         │
│ NEXT               : ➡          │
│ CONFIRM            : OK         │
│                    EXIT  : MENU │
└─────────────────────────────────┘
```
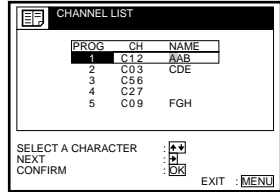
5

Enter the station name.

1 Press ↑/↓ to select a character.
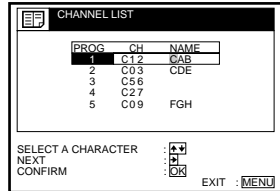   Each time you press ↑, the character changes as shown below.

   A → B → ... → Z → a → b → ... → z → 0 → 1 → ... → 9 → (symbols) → (blank space) → A

2 Press ➡ to set the next character.
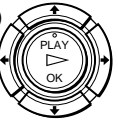   The next space is highlighted.
   To correct a character, press ⬅/➡ until the character you want to correct is highlighted then reset it.

   You can set up to 5 characters for the station name.

```
┌─────────────────────────────────┐
│ [≣] CHANNEL LIST                │
│                                 │
│    PROG    CH      NAME         │
│     1      C 1 2   CAB          │
│     2      C 0 3   CDE          │
│     3      C 5 6                │
│     4      C 2 7                │
│     5      C 0 9   FGH          │
│                                 │
│ SELECT A CHARACTER : ↑↓         │
│ NEXT               : ➡          │
│ CONFIRM            : OK         │
│                    EXIT  : MENU │
└─────────────────────────────────┘
```

6

Press OK to confirm the new name.

7 MENU

Press MENU to exit the menu.

Tip
• If you want to return to the previous menu, highlight RETURN and press OK.

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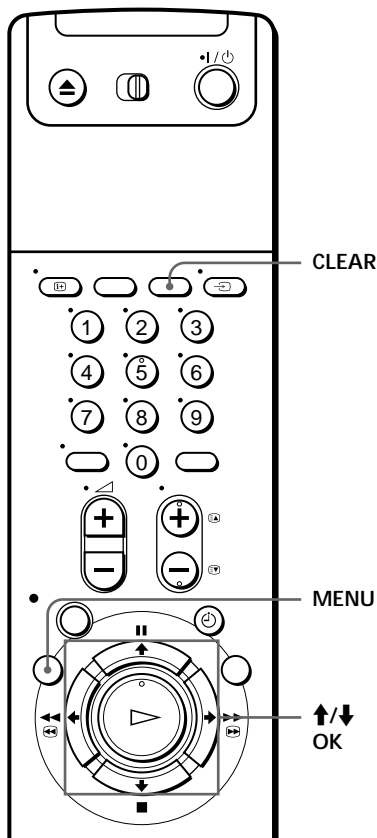• The menu disappears automatically if you don't proceed for more than a few minutes.

continued

Getting Started

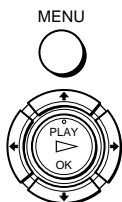Getting Started | 31

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.
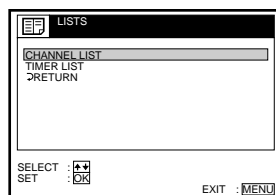
Before you start…

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

CLEAR

MENU

↑/↓
OK

1   MENU   Press MENU, then press ↑/↓ to highlight LISTS, and press OK.

```
[≣] LISTS

CHANNEL LIST
TIMER LIST
⊃RETURN


SELECT  : ↑↓
SET     : OK
                        EXIT : MENU
```

2 Press ↑/↓ to highlight CHANNEL LIST, then press OK.

```
┌──────────────────────────────────┐
│ 📺  CHANNEL LIST                  │
│                                   │
│   PROG    CH      NAME            │
│    1     C 1 2    AAB             │
│    2     C 0 3    CDE             │
│    3     C 5 6                    │
│    4     C 2 7                    │
│    5     C 0 9    FGH             │
│                                   │
│  SELECT      : ↑↓                 │
│  MOVE PROG   : →                  │
│  ERASE PROG  : CLEAR              │
│                      EXIT : MENU  │
└──────────────────────────────────┘
```
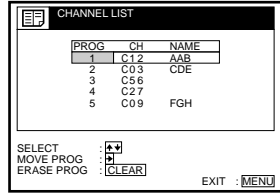
3 Press ↑/↓ to highlight the row on which you want to disable.

```
┌──────────────────────────────────┐
│ 📺  CHANNEL LIST                  │
│                                   │
│   PROG    CH      NAME            │
│    1     C 1 2    AAB             │
│    2     C 0 3    CDE             │
│    3     C 5 6                    │
│    4     C 2 7                    │
│    5     C 0 9    FGH             │
│                                   │
│  SELECT      : ↑↓                 │
│  MOVE PROG   : →                  │
│  ERASE PROG  : CLEAR              │
│                      EXIT : MENU  │
└──────────────────────────────────┘
```
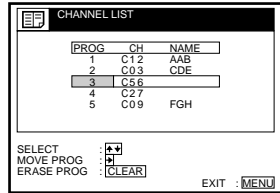
4 CLEAR Press CLEAR.

The selected row will be cleared as shown on the right.

```
┌──────────────────────────────────┐
│ 📺  CHANNEL LIST                  │
│                                   │
│   PROG    CH      NAME            │
│    1     C 1 2    AAB             │
│    2     C 0 3    CDE             │
│    3                              │
│    4     C 2 7                    │
│    5     C 0 9    FGH             │
│                                   │
│  SELECT      : ↑↓                 │
│  MOVE PROG   : →                  │
│  ERASE PROG  : CLEAR              │
│                      EXIT : MENU  │
└──────────────────────────────────┘
```
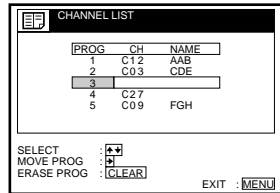
5 Repeat steps 3 and 4 for any other programme positions you want to disable.

6 MENU Press MENU to exit the menu.

Tip
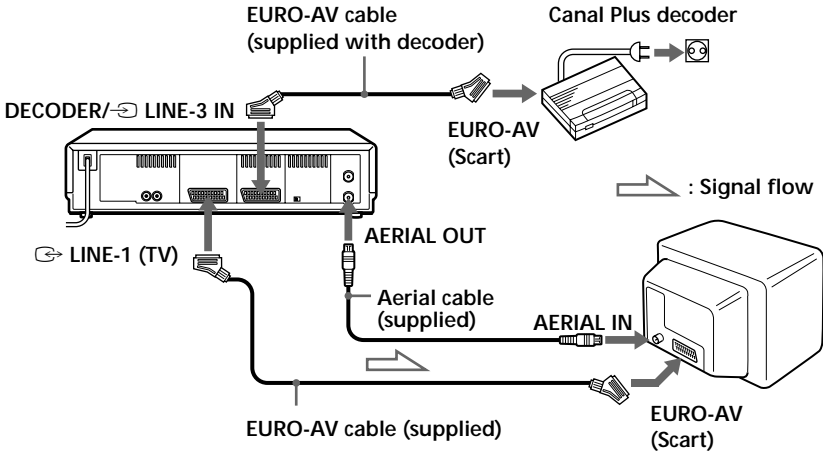• If you want to return to the previous menu, highlight RETURN and press OK.

Notes
• The menu disappears automatically if you don't proceed for more than a few minutes.
• Be sure to select the programme position you want to disable correctly. If you disable a programme position by mistake, you need to reset that channel manually.

Getting Started

Setting the Canal Plus decoder

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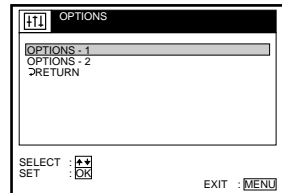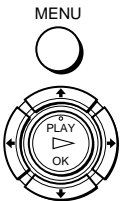
Connecting a decoder

EURO-AV cable (supplied with decoder)

Canal Plus decoder

DECODER/⊟ LINE-3 IN

EURO-AV (Scart)

: Signal flow

LINE-1 (TV)

AERIAL OUT

Aerial cable (supplied)

AERIAL IN

EURO-AV cable (supplied)

EURO-AV (Scart)

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.

PROG +/–

MENU

↑/↓/←/→
OK

---

1 MENU
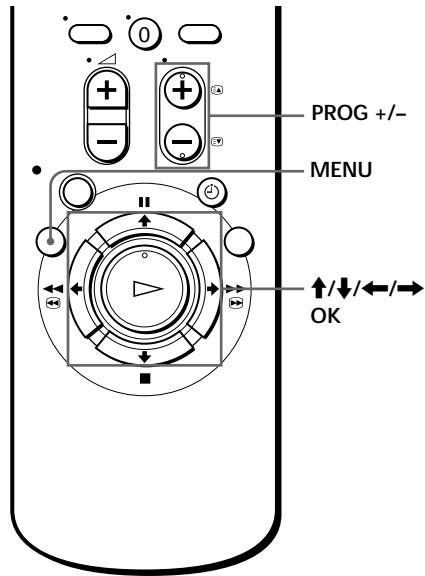
Press MENU, then press ↑/↓ to highlight OPTIONS and press OK.

```
┌─────────────────────────────┐
│ ┌┬┬┐  OPTIONS                │
│                             │
│                             │
│ OPTIONS - 1                 │
│ OPTIONS - 2                 │
│ ⊃RETURN                     │
│                             │
│                             │
│                             │
│ SELECT : ↑↓                 │
│ SET    : OK                 │
│                  EXIT : MENU│
└─────────────────────────────┘
```

2

Press ↑/↓ to highlight OPTIONS-2, then press OK.

```
┌─────────────────────────────────┐
│ ┌┬┬┐  OPTIONS - 2                │
│                                 │
│ DECODER / LINE 3      LINE3     │
│ TIMER OPTIONS         VARIABLE  │
│ DIMMER                OFF       │
│ POWER SAVE            OFF       │
│ RF MODULATOR          ON        │
│ TV DIRECT REC         ON        │
│ RR                    NORMAL    │
│ ⊃RETURN                         │
│                                 │
│ SELECT : ↑↓                     │
│ SET    : OK                     │
│                      EXIT : MENU│
└─────────────────────────────────┘
```

3
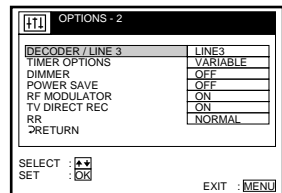
Press ↑/↓ to highlight DECODER/LINE3, then press OK.

```
┌─────────────────────────────────┐
│ ┌┬┬┐  OPTIONS - 2                │
│                                 │
│ DECODER / LINE 3      DECODER   │
│ TIMER OPTIONS         LINE3     │
│ DIMMER                          │
│ POWER SAVE            OFF       │
│  RF MODULATOR         ON        │
│ TV DIRECT REC         ON        │
│ RR                    NORMAL    │
│ ⊃RETURN                         │
│                                 │
│ SELECT  : ↑↓                    │
│ CONFIRM : OK                    │
│                      EXIT : MENU│
└─────────────────────────────────┘
```
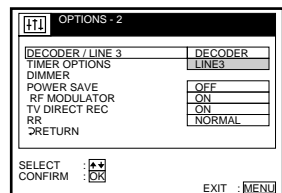
Setting the Canal Plus decoder (continued)

4 Press ↑/↓ to highlight DECODER, then press OK.

┃†┃ OPTIONS - 2	
DECODER / LINE 3	DECODER
TIMER OPTIONS	VARIABLE
DIMMER	OFF
POWER SAVE	OFF
RF MODULATOR	ON
TV DIRECT REC	ON
RR	NORMAL
⊃RETURN	

SELECT : ↑↓
SET : OK
EXIT : MENU

5 MENU Press MENU to exit the menu.

6 MENU Press MENU, then press ↑/↓ to highlight SETTINGS and press OK.

🖭 SETTINGS
TUNER
CLOCK
LANGUAGE
⊃RETURN

SELECT : ↑↓
SET : OK
EXIT : MENU

7 Press ↑/↓ to highlight TUNER, then press OK.

🖭 TUNER	PROG. 1
SYSTEM	D / K
NORMAL / CATV	NORMAL
CHANNEL SET	C 1 2 AAB
PAY - TV / CANAL+	OFF
AFT	ON
FINE TUNING	
⊃RETURN	

SELECT : ↑↓
SET : OK
EXIT : MENU

8 Press ↑/↓ to highlight NORMAL/CATV, then press OK.

🖭 TUNER	PROG. 1
SYSTEM	
NORMAL / CATV	NORMAL
CHANNEL SET	CATV
PAY - TV / CANAL+	
AFT	ON
FINE TUNING	
⊃RETURN	

SELECT : ↑↓
CONFIRM : OK
EXIT : MENU

9

Press ↑/↓ to highlight NORMAL, then press OK.

To preset CATV (Cable Television) channels, select CATV.

```
┌─────────────────────────────┐
│ 🔲 TUNER                     │
│                      PROG.  1│
│ SYSTEM              D / K     │
│ NORMAL / CATV       NORMAL    │
│ CHANNEL SET         C12  AAB  │
│ PAY - TV / CANAL+   OFF       │
│ AFT                 ON        │
│ FINE TUNING                   │
│ ⊃RETURN                       │
│                               │
│                               │
│ SELECT : ↑↓                   │
│ SET    : OK                   │
│                      EXIT : MENU│
└─────────────────────────────┘
```

10 • PROG ⊕ ⊖

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

Selected programme position

```
┌─────────────────────────────┐
│ 🔲 TUNER                     │
│                    PROG. (15)│
│ SYSTEM              D / K     │
│ NORMAL / CATV       NORMAL    │
│ CHANNEL SET         C12  AAB  │
│ PAY - TV / CANAL+   OFF       │
│ AFT                 ON        │
│ FINE TUNING                   │
│ ⊃RETURN                       │
│                               │
│                               │
│ SELECT : ↑↓                   │
│ SET    : OK                   │
│                      EXIT : MENU│
└─────────────────────────────┘
```

11

Press ↑/↓ to highlight CHANNEL SET, then press OK.

```
┌─────────────────────────────┐
│ 🔲 TUNER                     │
│                     PROG. 15 │
│ SYSTEM              D / K     │
│ NORMAL / CATV                 │
│ CHANNEL SET         C12  AAB  │
│ PAY - TV / CANAL+             │
│ AFT                 ON        │
│ FINE TUNING                   │
│ ⊃RETURN                       │
│                               │
│                               │
│ SELECT  : ↑↓                  │
│ CONFIRM : OK                  │
│                      EXIT : MENU│
└─────────────────────────────┘
```

12

Press ↑/↓ to select the Canal Plus channels, then press OK.

```
┌─────────────────────────────┐
│ 🔲 TUNER                     │
│                     PROG. 15 │
│ SYSTEM              D / K     │
│ NORMAL / CATV       NORMAL    │
│ CHANNEL SET         C02  CDE  │
│ PAY - TV / CANAL+   OFF       │
│ AFT                 ON        │
│ FINE TUNING                   │
│ ⊃RETURN                       │
│                               │
│                               │
│ SELECT : ↑↓                   │
│ SET    : OK                   │
│                      EXIT : MENU│
└─────────────────────────────┘
```
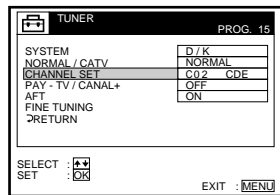
13

Press ↑/↓ to highlight PAY-TV/ CANAL+, then press OK.

```
┌─────────────────────────────┐
│ 🔲 TUNER                     │
│                     PROG. 15 │
│ SYSTEM              D / K     │
│ NORMAL / CATV       NORMAL    │
│ CHANNEL SET                   │
│ PAY - TV / CANAL+   ON        │
│ AFT                 OFF       │
│ FINE TUNING                   │
│ ⊃RETURN                       │
│                               │
│                               │
│ SELECT  : ↑↓                  │
│ CONFIRM : OK                  │
│                      EXIT : MENU│
└─────────────────────────────┘
```

Getting Started
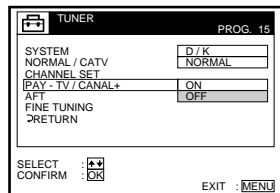
Setting the Canal Plus decoder (continued)

14

Press ↑/↓ to highlight ON, then press OK.

```
┌─────────────────────────────────────┐
│ ▭  TUNER                             │
│                          PROG.  15   │
│  SYSTEM                  D / K        │
│  NORMAL / CATV           NORMAL       │
│  CHANNEL SET             C 0 2   CDE  │
│  PAY - TV / CANAL+       ON           │
│  AFT                     ON           │
│  FINE TUNING                          │
│  ⊃RETURN                             │
│                                       │
│  SELECT  : ↑↓                        │
│  SET     : OK                        │
│                          EXIT : MENU  │
└─────────────────────────────────────┘
```

---
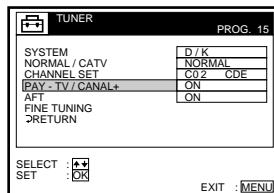
15   MENU

Press MENU to exit the menu.

Tip
• If you want to return to the previous menu, highlight RETURN and press OK.

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

▲ EJECT

i+ DISPLAY

CLEAR

▷ PLAY
‖ PAUSE
▶▶ ▸▸ FF
■ STOP
◀◀ ◂◂ REW

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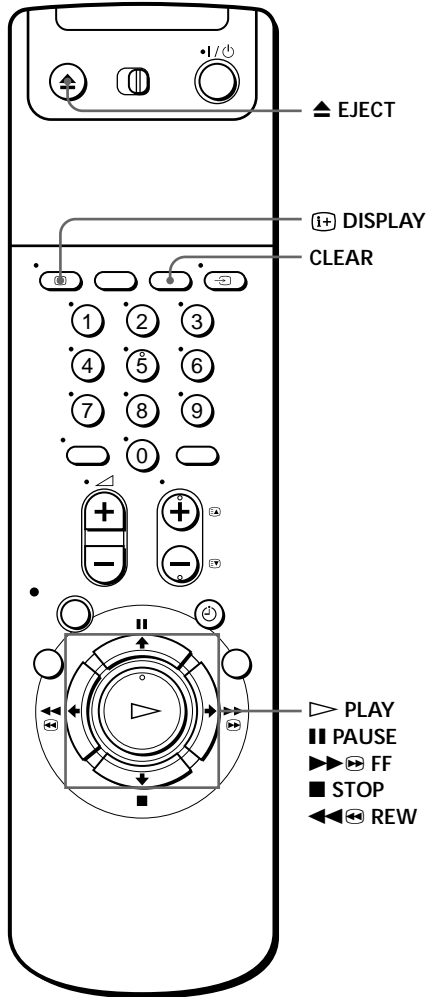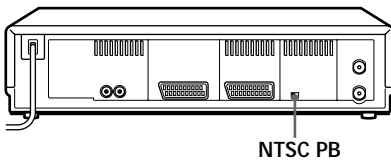
1   Turn on your TV and set it to the video channel.

2   Insert a tape.

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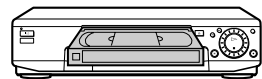
Playing a tape (continued)

3   Press ▷ PLAY.

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

Additional tasks

To	Press
Stop play	■ STOP
Pause play	❚❚ PAUSE
Resume play after pause	❚❚ PAUSE or ▷ PLAY
Fast-forward the tape	►►⏩ FF during stop
Rewind the tape	◄◄⏪ REW during stop
Eject the tape	▲ EJECT

To set the colour system

If the playback picture has no colour, or streaks appear during playback, set COLOUR SYSTEM in the OPTIONS-1 menu to conform to the system that the tape was recorded in (see page 72). (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 CLEAR. The counter in the display window resets to "0:00:00." Search for the point afterwards by referring to the counter.

```
SP  VIDEO
              OPC
◯◯    _/ ·_/ _/ ·_/ _/
```

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.
• While setting the menu on the TV screen, buttons for playback <u>on the remote commander</u> do not function.

Basic Operations

Starting playback automatically with one button (One Touch Play)

If you use the SMARTLINK connection, you can turn on the VCR and the TV, set the TV to the video channel, and start playback automatically with one button.

1 Insert a tape.

The VCR automatically turns on.

If you insert a tape with its safety tab removed, the TV turns on and switches to the video channel. Playback starts automatically.

2 Press ▷ PLAY.

The TV turns on and switches to the video channel automatically. Playback starts.

Tip
• When there already is a tape in the VCR, the VCR and the TV turn on, the TV is set to the video channel, and playback starts automatically in one sequence when you press ▷ PLAY.

Note
• When you use the One Touch Play function, leave the TV on or in the standby mode.

Recording TV programmes

COUNTER/
REMAIN

i+ DISPLAY

SP/LP

⊝ TV/VIDEO

INPUT
SELECT

PROG +/–

● REC

■ STOP

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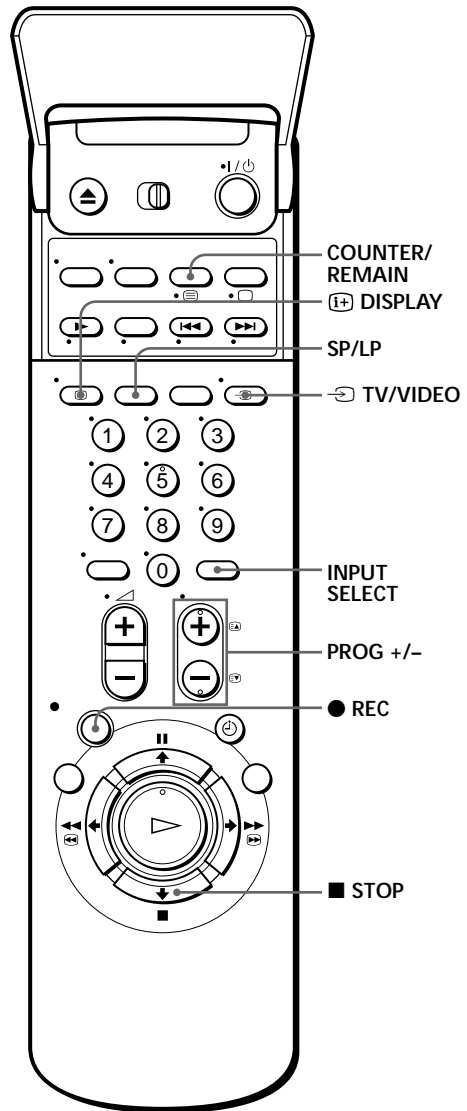
1 Turn on your TV and set it to the video channel.

To record from a decoder, turn it on.

---

2 Insert a tape with its safety tab in place.

Recording TV programmes (continued)

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

> **SP VIDEO**
> **OPC**
> ◯◯ P R   5

4 • PROG ⊕ ⊖   Press PROG +/− to select the programme position you want to record.

> **SP VIDEO**
> **OPC**
> ◯◯ P R   12

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.

> **VIDEO**
> **LP**   **OPC**
> ◯◯ P R   12
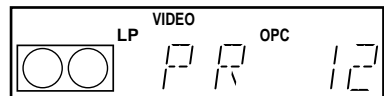
6 ● REC   Press ● REC to start recording.

The recording indicator lights up red in the display window.

Recording indicator—

> **VIDEO**
> **LP**   **OPC**
> ◯◯ 0 : 00 : 10
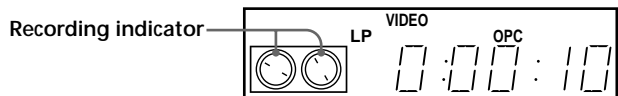
To stop recording
Press ■ STOP.

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.
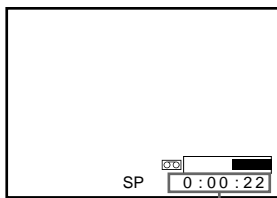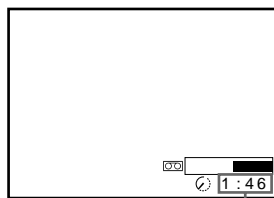
SP 0 : 00 : 22	⟨⟩ 1 : 46
Time counter	**Remaining time**

To correctly check the remaining time of the tape, set TAPE LENGTH in the OPTIONS-1 menu according to the tape type you use (see page 72).

To watch another TV programme while recording

1 Press ⊖ TV/VIDEO 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

Basic Operations

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) connector, the LINE-2 IN jacks, or the LINE-3 IN (Scart) connector also using the INPUT SELECT button.

• 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 is intended for rough measurement only.

• About 30 seconds after the tape begins playback, the tape remaining time will be displayed.

Recording what you are watching on the TV (TV Direct Rec)

If you use the SMARTLINK connection, you can easily record what you are watching on the TV (other than tapes being played on the VCR).

1   Insert a tape with its safety tab in place.

2   Press ● REC while you are watching a TV programme or external source.

     The VCR automatically turns on, then the TV indicator lights up and the VCR starts recording what you are watching on the TV.

Tips
- The TV indicator appears in the display window after you press ● REC in some situations such as:
  – when you are watching a source connected to the TV's line input, or
  – when the TV tuner preset data for the programme position is different from the data in the VCR tuner preset.
- If there is a tape with its safety tab in place in the VCR, the VCR automatically turns on and starts recording what you are watching on the TV when you press ● REC.
- You can turn the TV Direct Rec function ON and OFF in the OPTIONS-2 menu (see page 73).

Notes
- You cannot record what you are watching using this method when the VCR is in the following modes; pause, timer standby, tuner preset, Auto Set Up, and recording.
- When the TV indicator is lit in the display window, do not turn off the TV nor change the TV programme position. When the TV indicator is not lit, the VCR continues recording the programme even if you change the TV programme position on the TV.

Basic Operations

Recording TV programmes using the ShowView system

The ShowView system is the feature that simplifies programming the VCR to make timer recording. Just enter the 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 and date.
- 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.
- Set TIMER OPTIONS to SHOWVIEW or VARIABLE in the OPTIONS-2 menu (see page 73).

I/⏻

CLEAR

Programme number buttons

⏱ TIMER

↑/↓/←/→
OK
■ STOP

---
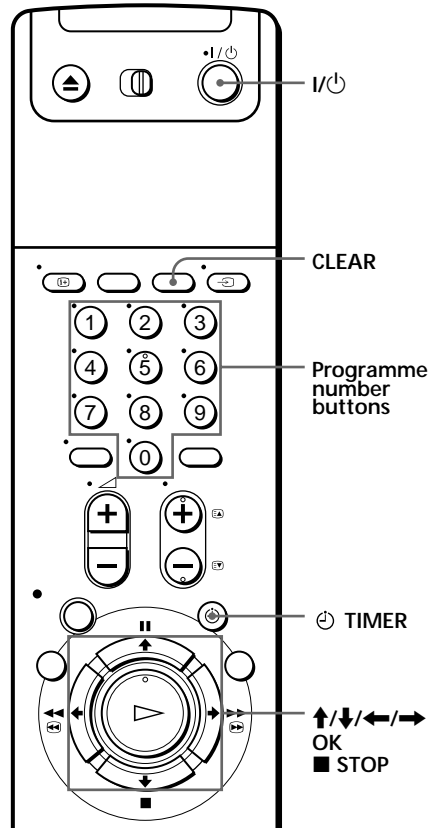
1 TIMER ⏱   Press ⏱ TIMER.

- When you set TIMER OPTIONS to VARIABLE

  The TIMER METHOD menu appears on the TV screen. Press ↑/↓ to select SHOWVIEW, then press OK.

- When you set TIMER OPTIONS to SHOWVIEW

  The SHOWVIEW menu appears on the TV screen.

```
⏱  TIMER METHOD

STANDARD
SHOWVIEW




SELECT  : ↑↓
SET     : OK
                    EXIT  : MENU
```

```
⏱  SHOWVIEW
                    28.9 TUE

        SHOWVIEW NO.
        _ _ _ _ _ _ _ _



SET       : 0–9

                    EXIT  : MENU
```

2

①②③
④⑤⑥
⑦⑧⑨
　⓪
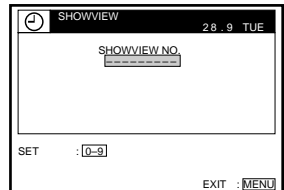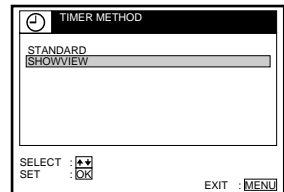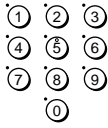
CLEAR

Press the programme number buttons to enter the ShowView number.

If you make a mistake, press CLEAR and re-enter the correct number.

```
🕐  SHOWVIEW
                          28 . 9  TUE

              SHOWVIEW NO.
               1 2 4 6 – – – –




SET     : 0–9
CONFIRM : OK
CANCEL  : CLEAR
                          EXIT  : MENU
```

3

PLAY
▷
OK
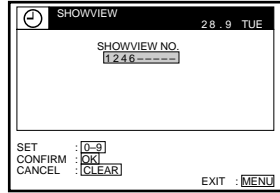
Press OK.

The date, start and stop times, programme position, tape speed, and VPS/PDC setting appear on the TV screen.

• If "--" appears in the "PROG." (programme) column (this may happen for local broadcasts), you have to set the appropriate programme position manually.

```
🕐  TIMER
                          28 . 9  TUE

  DATE           TIME          PROG.
  TODAY      19 : 00→20 : 00     35

  SP / LP  SP        VPS / PDC  OFF

  LIST


SELECT : ◄►
SET    : ▲▼
CANCEL : CLEAR
                          EXIT  : MENU
```

Press ↑/↓ to select the desired programme position.

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

You will only have to do this operation once for the referred channel. The VCR will then store your setting.

CLEAR

The information is incorrect, press CLEAR.

Basic Operations
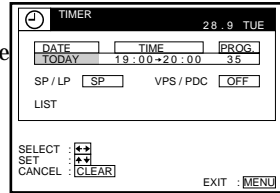
Recording TV programmes using the ShowView system (continued)

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

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

2 Press ↑/↓ to reset it.

- To record the same programme every day or the same day every week, see "Daily/weekly recording" below.

- 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 51.

```
┌─────────────────────────────────┐
│ 🕐  TIMER                        │
│                        28 . 9  TUE │
│  ┌────────┬──────────┬─────────┐ │
│  │ DATE   │   TIME   │  PROG.  │ │
│  │ TODAY  │19:00→20:00│   35    │ │
│  SP / LP  ┌──┐        VPS / PDC ┌───┐│
│           │SP│                  │OFF││
│  LIST     └──┘                  └───┘│
│                                  │
│  SELECT : ←→                     │
│  SET    : ↑↓                     │
│  CANCEL : CLEAR                  │
│                        EXIT : MENU │
└─────────────────────────────────┘
```
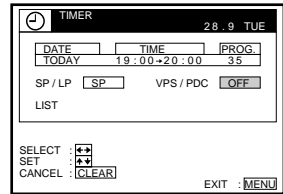
5 MENU Press MENU to exit the menu.

6 I/⏻ Press I/⏻ to turn off the VCR.

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

To stop recording

To stop the VCR while recording, press ■ STOP.

Daily/weekly recording

In step 4 above, press ↓ to select the recording pattern. Each time you press ↓, the indication changes as shown below. Press ↑ to change the indication in reverse order.

TODAY → SUN-SAT (Sunday to Saturday) → MON-SAT (Monday to Saturday)
→ MON-FRI (Monday to Friday) → SAT (every Saturday) .....
→ MON (every Monday) → SUN (every Sunday) → 1 month later
→ (dates count down) → TOMORROW → TODAY

Timer recording with VPS/PDC signals

Some 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 delays, early starts, or broadcast interruptions (with the VPS or PDC indicator in the display window lit).

To use the VPS/PDC function, set VPS/PDC to ON in step 4 above. You can also use the VPS/PDC function for a source connected to the LINE-1 (TV) connector, LINE-2 IN jacks, or LINE-3 IN (scart) connector.

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 want 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 I/⏻. The ⏲ indicator turns off and the VCR switches on. Remember to press I/⏻ 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.

Recording TV programmes using the ShowView system (continued)

Tips

- To set the programme position with a two digit number, press –/–– (ten's digit) button followed by the programme number button.
- To set the programme position, you can also use the PROG +/– button 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 LONG PLAY to OFF in the OPTIONS-1 menu (page 72).
- To confirm, change, or clear the programme setting, press ←/→ to choose LIST, then press OK after step 4. For details, see step 3 in "Checking/changing/cancelling timer settings" (page 60).

Notes

- 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 I/⏻ with no tape inserted.
- When you set TIMER OPTIONS to STANDARD in the OPTIONS-2 menu, the SHOWVIEW menu does not appear on the TV screen. Select SHOWVIEW or VARIABLE.

Setting the timer manually

If the ShowView system 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 and date.
- 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.
- Set TIMER OPTIONS to STANDARD or VARIABLE in the OPTIONS-2 menu (see page 73).
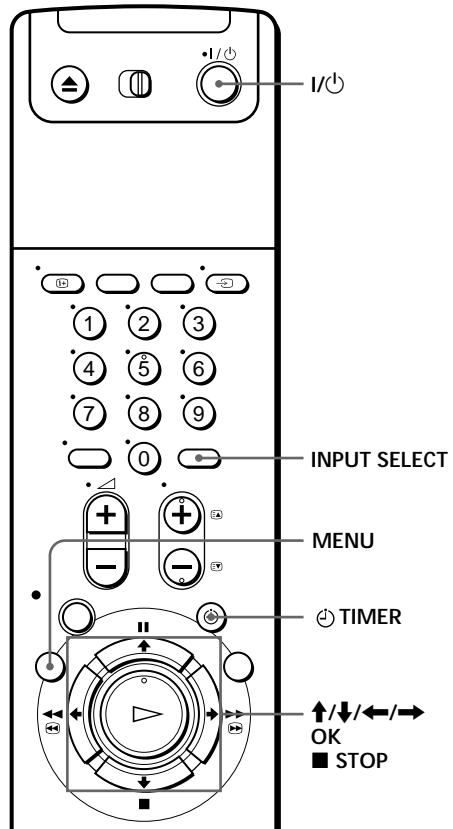
I/(1)

INPUT SELECT

MENU

(1) TIMER

↑/↓/←/→
OK
■ STOP

1 TIMER   Press (1) TIMER.

- When you set TIMER OPTIONS to VARIABLE

  The TIMER METHOD menu appears on the TV screen. Press ↑/↓ to select STANDARD, then press OK.

```
⏰ TIMER METHOD

STANDARD
SHOWVIEW




SELECT  : ↑↓
SET     : OK
                          EXIT : MENU
```
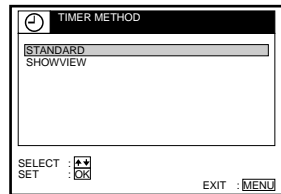
- When you set TIMER OPTIONS to STANDARD

  The TIMER menu appears on the TV screen.

```
⏰ TIMER
                          28.9 TUE
 DATE        TIME         PROG.
 TODAY     --:--→--:--     --
 SP/LP  SP        VPS/PDC  OFF
 LIST

SELECT  : ←→
SET     : ↑↓
CANCEL  : CLEAR
                          EXIT : MENU
```

Basic Operations
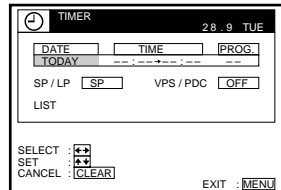
Setting the timer manually (continued)

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

1 Press ➡ to highlight each item in turn.
2 Press ↑/↓ to set each item.

To correct a setting, press ⬅ to return to that setting and reset.
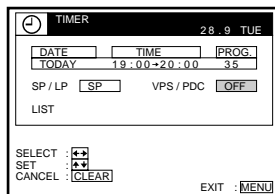
```
┌─────────────────────────────────────┐
│ ⏰ TIMER                             │
│                        28 . 9  TUE   │
│  ┌──────┐ ┌────────┐      ┌─────┐    │
│  │ DATE │ │  TIME  │      │PROG.│    │
│   TODAY   19 : 00→20 : 00    3 5     │
│  SP / LP  ┌──SP──┐   VPS / PDC ┌OFF┐ │
│  LIST                                │
│                                      │
│  SELECT :↔                           │
│  SET    :↕                           │
│  CANCEL : CLEAR                      │
│                         EXIT  : MENU │
└─────────────────────────────────────┘
```

- To record the same programme every day or the same day every week, see "Daily/weekly recording" on page 55.
- 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 51.

INPUT SELECT

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

3 MENU Press MENU to exit the menu.

4 •I/⏻ Press I/⏻ 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.

Daily/weekly recording

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

> TODAY → SUN-SAT (Sunday to Saturday) → MON-SAT (Monday to Saturday)
> → MON-FRI (Monday to Friday) → SAT (every Saturday) .....
> → MON (every Monday) → SUN (every Sunday) → 1 month later
> → (dates count down) → TOMORROW → TODAY

Tips
- To set the programme position, you can also use the PROG +/– button 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 LONG PLAY to OFF in the OPTIONS-1 menu (page 72).
- Even if you set TIMER OPTIONS to SHOWVIEW in the OPTIONS-2 menu, you can set the timer manually. Press MENU to select TIMER, then go to step 2.

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 I/⏻ with no tape inserted.

Basic Operations

Playing/searching at various speeds

× 2

▐► SLOW

▷ PLAY

▶▶ FF

◀◀ REW

JOG

Shuttle ring

▶▶⮐ FF

◀◀⮐ REW
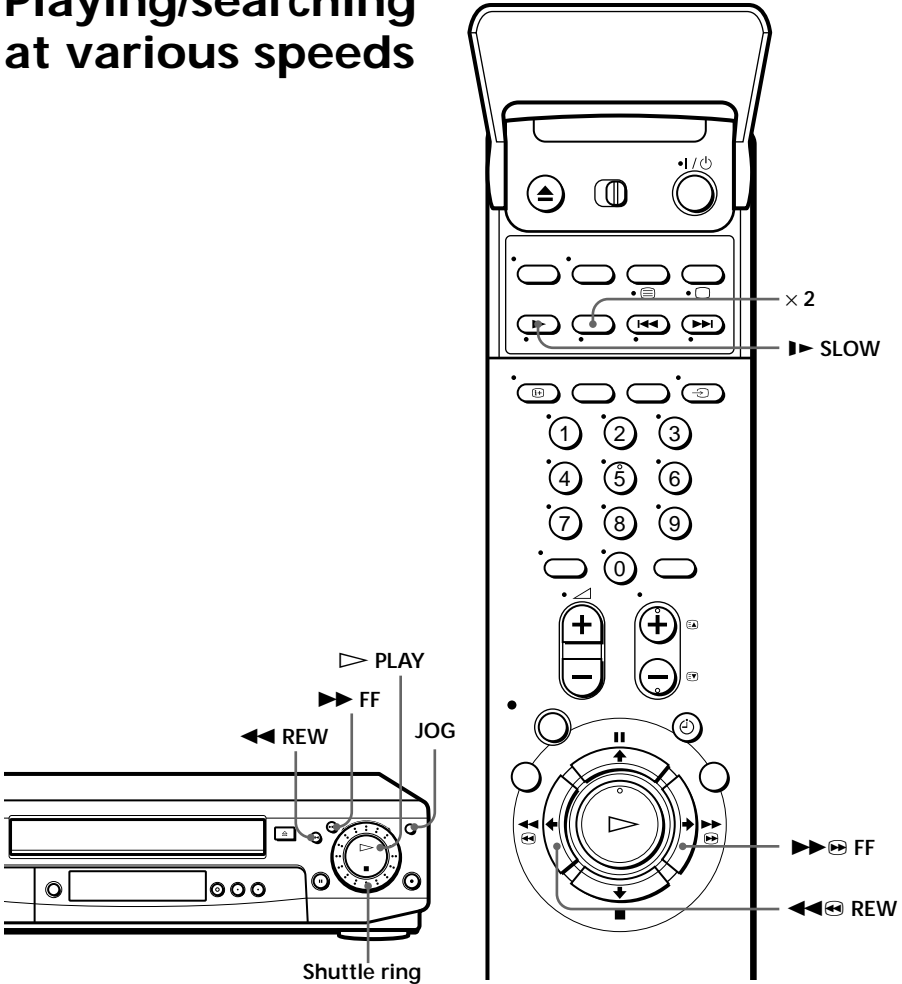
Playback options	Operation
View the picture during fast-forward or rewind	During fast-forward, hold down ▶▶⮐ FF/▶▶ FF. During rewind, hold down ◀◀⮐ REW/◀◀ REW.
Play at high speed	• During playback, press ▶▶⮐ FF or ◀◀⮐ REW <u>on the remote commander</u>. • During playback, hold down ▶▶⮐ FF/▶▶ FF or ◀◀⮐ REW/◀◀ REW. When you release the button, normal playback resumes.

Playback options	Operation
Play at twice the normal speed	During playback, press × 2.
Play in slow motion	During playback, press I► SLOW.
Play frame by frame	During pause, press ►► ⊡ FF or ◄◄ ⊡ REW <u>on the remote commander</u>. Hold down ►► ⊡ FF or ◄◄ ⊡ REW to play one frame each second.
Rewind and start play	During stop, press ▷ PLAY <u>on the VCR</u> while holding down ◄◄ REW <u>on the VCR</u>.

To resume normal playback

Press ▷ PLAY.

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 button goes off.

Tip
• Adjust the picture using the TRACKING +/– buttons 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 sound is muted during these operations.
• In the LP mode, noise may appear or there may be no colour.

Setting the recording duration time

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

● REC
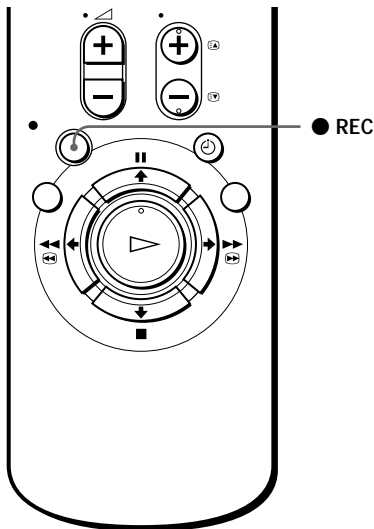
1 While recording, press ● REC.

The ⏲ indicator appears in the display window.
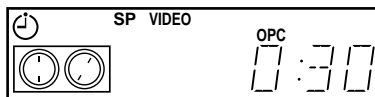
2 Press ● REC repeatedly to set the duration.

Each press advances the time in increments of 30 minutes.

0:30 → 1:00 - - - - → 5:30 → 6:00 → Normal recording
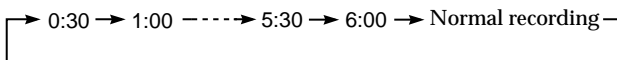
The tape counter decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press ● REC repeatedly to set a new duration.

To cancel the duration

Press ● REC repeatedly until the ⏲ indicator disappears and the VCR returns to normal recording mode.

To stop recording

To stop the VCR while recording, press ■ STOP.

Note
• You cannot display the current tape time in the display window when setting the recording duration.

Checking/ changing/ cancelling timer settings

Before you start…

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

I/🔘

CLEAR

MENU

↑/↓/←/→
OK
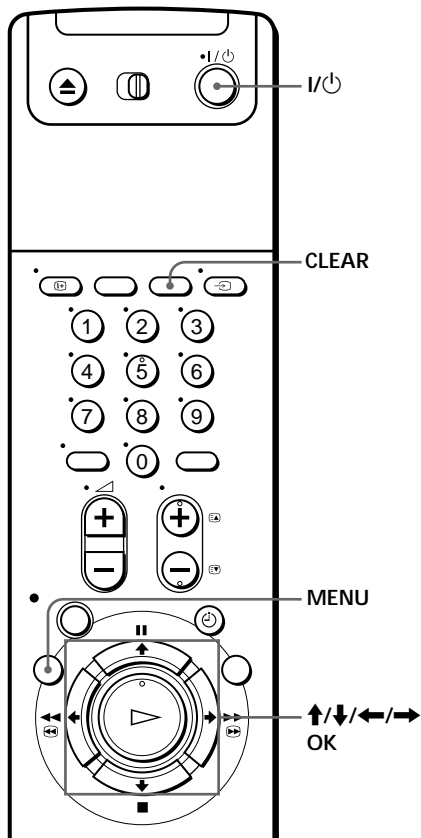
1   Press I/🔘 to turn on the VCR.

2   Press MENU, then press ↑/↓ to highlight LISTS and press OK.

3   Press ↑/↓ to highlight TIMER 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 MENU, then turn off the VCR to return to recording standby.

	TIMER LIST			
			28.9	TUE
DATE	TIME		PROG.	
TODAY	19:00→20:00		35	SP
30.9	20:00→21:00		AAB	SP
2.10	10:00→11:30		CDE	LP
MON–FRI	14:00→15:00		FGH	LP
SUN	6:30→ 7:00		IJK	LP
--.--	--:--	--:--	--	-
--.--	--:--	--:--	--	-
--.--	--:--	--:--	--	-
� RETURN				
SELECT	:↑↓			
SET	:OK			
CANCEL	:CLEAR			
			EXIT :MENU	

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

The selected setting appears in the TIMER menu.

```
┌─────────────────────────────────────┐
│ ⏱ TIMER                             │
│                          2 8 . 9  TUE│
│  ┌─DATE──┬─────TIME─────┬─PROG.─┐   │
│  │ 2.10  │ 10:00→11:30  │  CDE  │   │
│  └───────┴──────────────┴───────┘   │
│  SP / LP  [ LP ]    VPS / PDC [ ON ]│
│  LIST                               │
│                                     │
│  SELECT  : ←→                       │
│  SET     : ↑↓                       │
│  CANCEL  : CLEAR                    │
│                         EXIT : MENU │
└─────────────────────────────────────┘
```
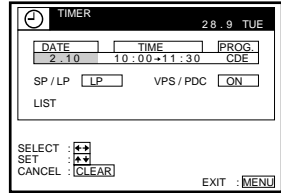
5 • To change the setting, press ←/→ to highlight the item you want to change, and press ↑/↓ to reset it.

• To cancel the setting, press CLEAR.

6 Press MENU.

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.

Programme 1 ⟹ about 20 seconds

Programme 2 ▬▬▬⟹

will be cut off

Programme 1 ⟹

Programme 2 ⟹

about 20 seconds will be cut off
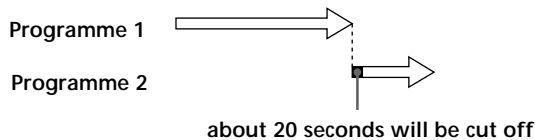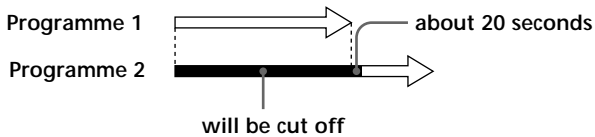
Recording stereo and bilingual programmes

In ZWEITON (German stereo) system

This VCR automatically receives and records stereo and bilingual programmes based on the ZWEITON system. When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To select bilingual sound while recording

Press AUDIO MONITOR to select the sound you want.

To listen to	On-screen display	Display window
Main	MAIN	STEREO
Sub	SUB	STEREO
Main and sub	MAIN/SUB	STEREO

In NICAM system (SLV-SE80EN only)

This VCR receives and records stereo and bilingual programmes based on the NICAM system (the NICAM indicator appears). When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To record a NICAM programme, HIFI AUDIO in the OPTIONS-1 menu should be set to NICAM (initial setting). To check the menu setting, see page 72 for details.

To select the sound while recording

Press AUDIO MONITOR to select the sound you want.

Stereo programme

To listen to	On-screen display	Display window
Stereo	STEREO	STEREO
Standard sound*	No indicator	No indicator

* Usually the mixed sound of left and right channels (monaural)

Bilingual programme

To listen to	On-screen display	Display window
Main	MAIN	STEREO
Sub	SUB	STEREO
Main and sub	MAIN/SUB	STEREO
Standard sound*	No indicator	No indicator

* Usually the main sound (monaural)

Selecting the sound during playback

Press AUDIO MONITOR to select the sound you want.

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

How sound is recorded on a video tape

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

Stereo   Bilingual

Usually mixed
left/right channels   Usually main sound

Normal audio track
(monaural)

Hi-fi audio track
(main track)

Stereo sound   Main (left channel)
(left/right channels)   Sub (right channel)
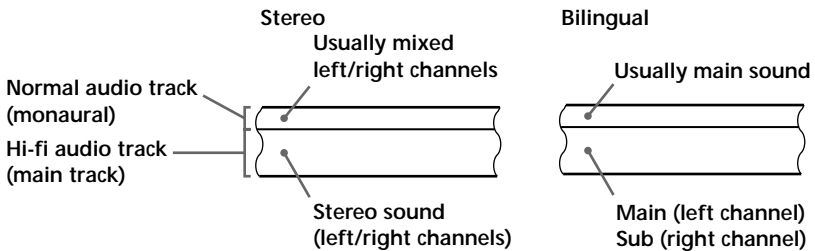
Notes
- To listen to playback sounds in stereo, you must use the EURO-AV or AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the OPTIONS-1 menu is set to OFF (see page 72).
- If HIFI AUDIO is set to STANDARD, the standard sound will be recorded on both the hi-fi and normal audio tracks. Pressing AUDIO MONITOR will not change the sound (SLV-SE80EN only).

Searching using the Smart Search function

If you record multiple programmes on a tape, use the Smart Search function to see what has been recorded on your tape. You can see information such as date, time, and channel of programmes recorded on a tape. You can also start playback directly from the selected programme using the SMART SEARCH screen.

All programmes are listed on the screen, regardless of how the programme was recorded.

The data of the last tape inserted into the VCR is automatically stored in memory. If you want to recall the latest data screen, select LATEST DATA in the SMART SEARCH screen (see page 66).

Before you start…

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

I/(¹)

SMART SEARCH

↑/↓/←/→
OK
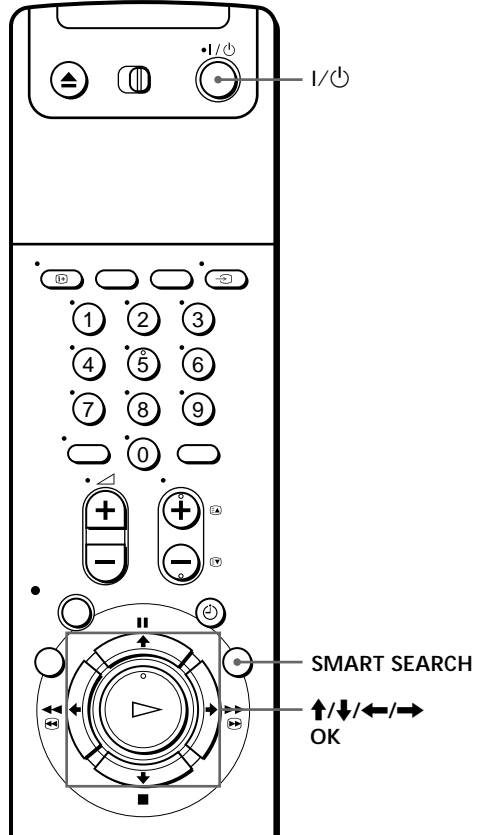
1 After recording, press I/(¹) to turn on the VCR.
2 Press SMART SEARCH.
3 Press ↑/↓/←/→ to select the programme you want to start viewing.

SMART SEARCH		180 MIN.
DATE	TIME	PROG.
28.9	19:00→20:00	35
29.9	14:00→15:00	FGH
30.9	14:00→15:00	FGH
30.9	20:00→21:00	AAB

BLANK TIME   30 MIN.

SELECT : ←→↑↓
SET   : OK
                        EXIT : SMART SEARCH
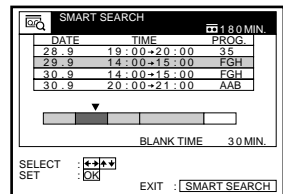
4 Press OK.

The VCR starts searching, and playback starts automatically from the beginning of the selected programme.

SMART SEARCH   180 MIN.

To stop searching

Press ■ STOP.

To exit the SMART SEARCH screen

Press SMART SEARCH.

To record in a blank space

Blank space on the tape will appear as a blank row in the SMART SEARCH screen. Select the blank row in step 3, then press OK. The VCR rewinds/fast-forwards the tape to the beginning of the blank space, then stops. Start recording.

To recall the latest data screen after you remove the tape

You can display the data of the last tape used to record a programme, even after you have removed the tape.

If you reinsert the tape and record additional programmes, be sure to select LATEST DATA. Otherwise, all of the data for the tape is deleted.

1 Reinsert the last tape that you used to record a programme.

2 Press SMART SEARCH.

```
┌─────────────────────────────────┐
│ 🔍▨  SMART SEARCH                │
│                                 │
│                                 │
│                                 │
│                                 │
│              NO DATA            │
│              LATEST DATA        │
│                                 │
│ SELECT : ♠♦                     │
│ SET    : OK                     │
│           EXIT : SMART SEARCH   │
└─────────────────────────────────┘
```
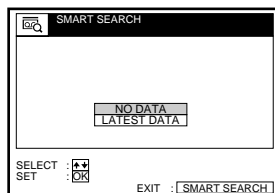
3 Press ↑/↓ to highlight LATEST DATA.

If you want to reset the latest data screen, highlight NO DATA and press OK, then record a programme.

4 Press OK.

The latest data stored in the VCR's memory is displayed.

```
┌─────────────────────────────────┐
│ 🔍▨  SMART SEARCH                │
│  DATE      TIME         PROG.   │
│  28.9    19:00→20:00     35     │
│  29.9    14:00→15:00     FGH    │
│  30.9    14:00→15:00     FGH    │
│  30.9    20:00→21:00     AAB    │
│              NO DATA            │
│              LATEST DATA        │
│                                 │
│ SELECT : ♠♦                     │
│ SET    : OK                     │
│           EXIT : SMART SEARCH   │
└─────────────────────────────────┘
```
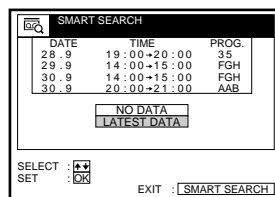
Tips
• You can store information for up to 24 programmes on a single list.
• While recording, you can display the SMART SEARCH screen using the SMART SEARCH button. If you decide to stop recording, press SMART SEARCH to make the SMART SEARCH screen disappear first. Then press ■ STOP.

Notes
- If you begin recording a programme "D" from the middle of a previously recorded programme "A" and into another previously recorded programme "B," the Smart Search information for the second programme "B" which is recorded over is deleted.

Originally recorded programmes

A   B   C
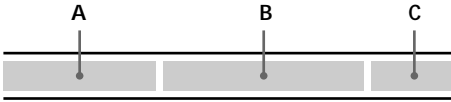
Recording the programme "D" over the programme "A" and "B"

A   D   C
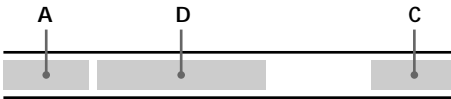
- You cannot use this function unless the clock is set.
- Depending on the tape, the total or remaining time may not appear correctly.
- When recording a short programme (less than 10 minutes in SP mode, or 20 minutes in LP mode), the Smart Search function may not be available or the programme information may not appear. Also, if you record a long programme directly after a short programme, the Smart Search information for the short programme may be deleted.
- Blank space is measured from the end of the last recorded programme to the end of the tape. However, if you eject the tape then make a new recording on the same tape, the original recorded programme(s) is displayed as a blank space.
- If no information is stored in the VCR's memory, LATEST DATA does not appear in the SMART SEARCH screen.

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.

I◀◀ /▶▶I
INDEX SEARCH
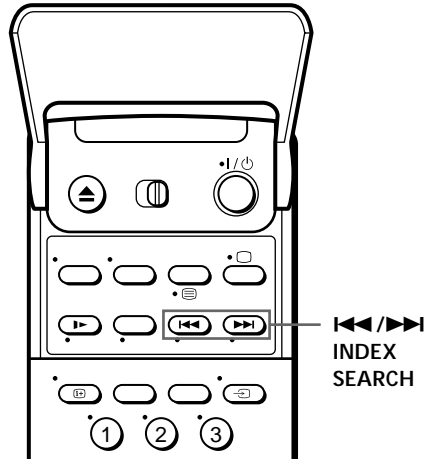
1 Insert an indexed tape into the VCR.
2 Press I◀◀ /▶▶I INDEX SEARCH.

    • To search ahead, press
     ▶▶I INDEX SEARCH.

    • To search backwards, press
     I◀◀ INDEX SEARCH.

    The VCR starts searching, and playback
    starts automatically from that point.
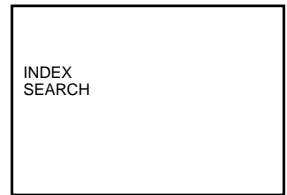
INDEX
SEARCH

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 +/– 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 re-insert it.
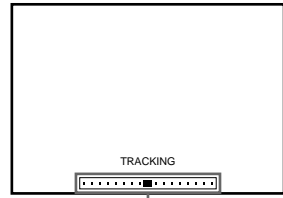
TRACKING

Tracking meter

About the Reality Regenerator (RR) function

The Reality Regenerator (RR) function automatically restores the picture to its original quality during playback.

To use the RR function, press REALITY REGENERATOR. The REALITY REGENERATOR button lights up.

You can set RR to NORMAL or HIGH in the OPTIONS-2 menu (see page 73).

REALITY REGENERATOR

To turn off, press REALITY REGENERATOR. The REALITY REGENERATOR button goes off.
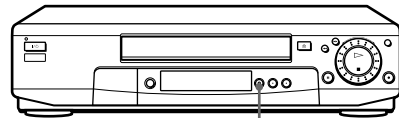
About the Optimum Picture Control (OPC) function

The Optimum Picture Control (OPC) function 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 OPTIONS-1 menu (with the OPC indicator in the display window lit). For details, see page 72.

```
┌──────────────────────────────┐
│ ⊞   OPTIONS - 1              │
│                              │
│ OPC                    ON    │
│ EDIT                   OFF   │
│ AUDIO MIX              OFF   │
│ HIFI AUDIO             NICAM │
│ AUTO LONG PLAY         OFF   │
│ TAPE LENGTH            E180  │
│ COLOUR SYSTEM          AUTO  │
│ ⊳RETURN                      │
│                              │
│ SELECT  : ◆◆                 │
│ SET     : OK                 │
│                 EXIT  : MENU │
└──────────────────────────────┘
```
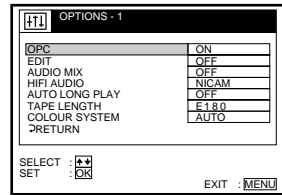
OPC playback

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 function

Set OPC to OFF in the OPTIONS-1 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 Long Play 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 about ten 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 OPTIONS and press OK.

```
┌─────────────────────────────┐
│ ⊞  OPTIONS                   │
│                             │
│ OPTIONS - 1                 │
│ OPTIONS - 2                 │
│ ⊃RETURN                     │
│                             │
│                             │
│                             │
│ SELECT : ↟↡                 │
│ SET    : OK                 │
│                  EXIT : MENU│
└─────────────────────────────┘
```
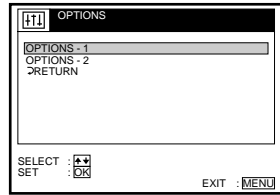
2 Press ↑/↓ to highlight OPTIONS-1 or OPTIONS-2, then press OK.

```
┌─────────────────────────────┐
│ ⊞  OPTIONS - 1               │
│ OPC               ON        │
│ EDIT              OFF       │
│ AUDIO MIX         OFF       │
│ HIFI AUDIO        NICAM     │
│ AUTO LONG PLAY    OFF       │
│ TAPE LENGTH       E180      │
│ COLOUR SYSTEM     AUTO      │
│ ⊃RETURN                     │
│ SELECT : ↟↡                 │
│ SET    : OK                 │
│                  EXIT : MENU│
└─────────────────────────────┘
```

```
┌─────────────────────────────┐
│ ⊞  OPTIONS - 2               │
│ DECODER / LINE 3  LINE3     │
│ TIMER OPTIONS     VARIABLE  │
│ DIMMER            OFF       │
│ POWER SAVE        OFF       │
│ RF MODULATOR      ON        │
│ TV DIRECT REC     ON        │
│ RR                NORMAL    │
│ ⊃RETURN                     │
│ SELECT : ↟↡                 │
│ SET    : OK                 │
│                  EXIT : MENU│
└─────────────────────────────┘
```
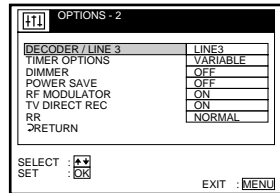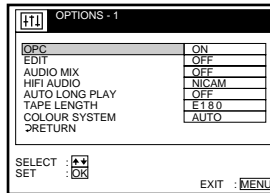
3 Press ↑/↓ to select the option, then press OK.
4 Press ↑/↓ to change the setting, then press OK.
5 Press MENU to return to the original screen.

Changing menu options (continued)

Menu choices

Initial settings are indicated in bold print.

OPTIONS-1

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 minimize picture deterioration when editing. • **OFF** to turn off EDIT.
AUDIO MIX	• ON to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. • **OFF** to listen to the hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button. For details, see page 64.
HIFI AUDIO (SLV-SE80EN only)	• **NICAM** to record NICAM broadcasts on the hi-fi audio track. • STANDARD to record standard sound on the hi-fi audio track. For details, see page 62.
AUTO LONG PLAY	• 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 LENGTH	• **E180** to use an E-180 or shorter type tape. • E195 to use an E-195 type tape. • E240 to use an E-240 type tape. • E300 to use an E-300 type tape.
COLOUR 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 40.

OPTIONS-2

Menu option	Set this option to
DECODER/LINE3	• DECODER to use the DECODER/LINE-3 IN connector as the PAY-TV/Canal Plus decoder connector. • **LINE3** to use the DECODER/LINE-3 IN connector as the line input connector.
TIMER OPTIONS	• **VARIABLE** to display the TIMER METHOD menu for selecting STANDARD or SHOWVIEW when pressing ⏱ TIMER button. • STANDARD to display the TIMER menu when pressing the ⏱ TIMER button. • SHOWVIEW to display the SHOWVIEW menu when pressing the ⏱ TIMER button. For details, see pages 48, 53.
DIMMER	• ON to make the display window dim. • **OFF** to make it brighter.
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.
RF MODULATOR	• **ON** if you connect the VCR to your TV using only the aerial cable. • OFF if you connect the VCR to your TV using the EURO-AV cable.
TV DIRECT REC	• **ON** to activate the TV Direct Rec function. • OFF to deactivate it.
RR	• **NORMAL** for normal everyday use. • HIGH for well-used video tapes such as rented tapes. Select this option when NORMAL does not improve the picture quality.

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 or stereo system

How to connect to record on this VCR

This VCR (Recorder)   **TV**

LINE-2 IN

Other VCR (Player)

LINE OUT

Audio/video cable (not supplied)

: **Signal flow**

This VCR (Recorder)   **TV**

**DECODER/
⊸ LINE-3 IN**

Other VCR (Player)

EURO-AV (Scart)

EURO-AV cable (not supplied)

: **Signal flow**
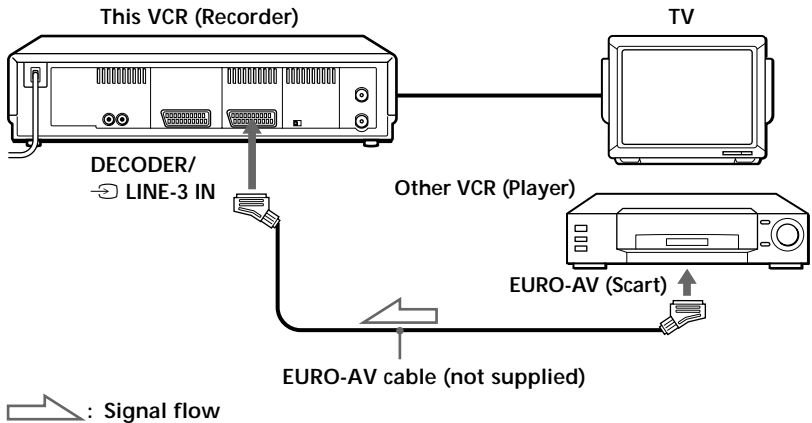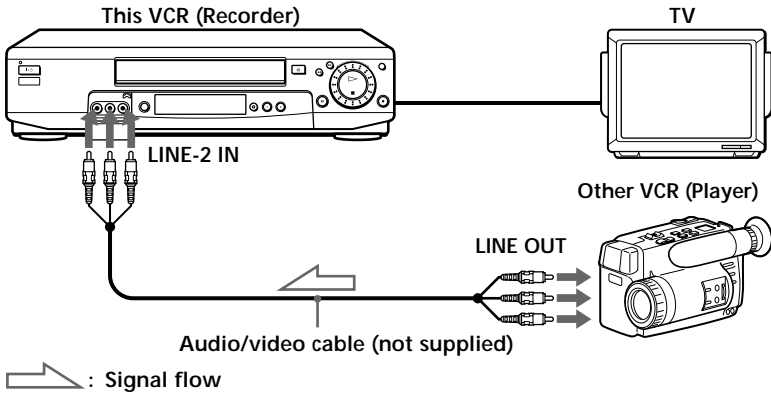
Tip
• You can also use the LINE-1 (TV) connector instead.

Notes
• Make sure you connect the plugs to jacks of the same colour.
• If the other VCR is a monaural type, leave the red plugs unconnected.
• 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.

How to connect to a stereo system

Connect the LINE-2 IN AUDIO L/R jacks on this VCR to the audio output
jacks on the stereo system.

Basic editing
(when recording on this VCR)

● REC

Ⅱ PAUSE
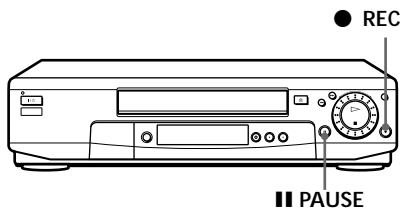
Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L2" ("L1" or "L3") in the display window.
- Press SP/LP to select the tape speed, SP or LP.
- On this VCR, set EDIT to ON in the OPTIONS-1 menu. 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 Ⅱ PAUSE.

3 Press ● REC on this VCR to 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.

Tip
- 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 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 Ⅱ PAUSE after the OPC indicator stops flashing. If you press Ⅱ 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 hi-fi sound remainds unchanged. Use this feature to add commentary to a tape that you have recorded with a camcorder.

Before you start…

• Connect a playback source to the LINE-2 IN AUDIO L/R jacks on the front panel.
• Turn on the TV and set it to the video channel.

AUDIO DUB

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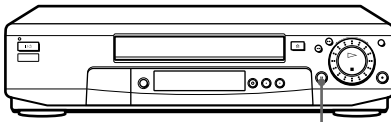
II PAUSE
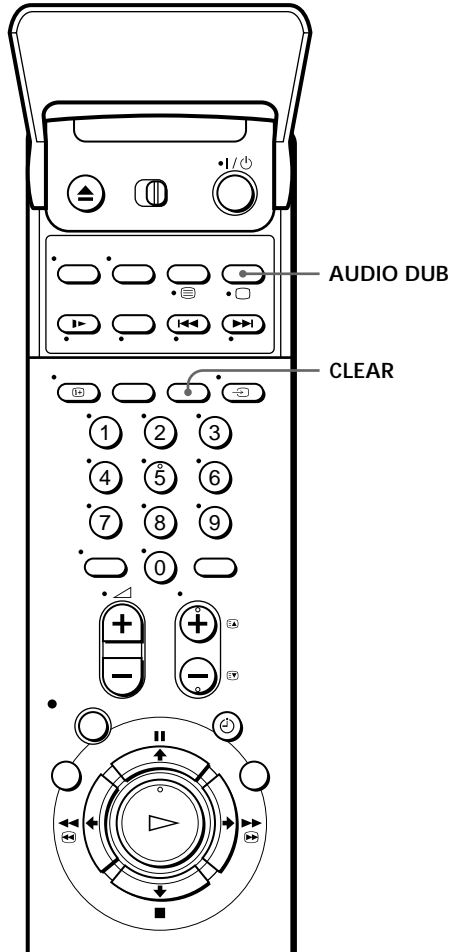
1   Insert a source tape into the stereo system (or the playback VCR). Search for the point to start playback and set it to playback pause.

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 CLEAR to reset the counter to "0H00M00S."

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

    The VCR enters pause mode.

76 | Editing

5   Press AUDIO DUB.

The programme position changes to "L2," and the ⊖ indicator appears in the display window.

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

When the counter reaches "0H00M00S," audio dubbing stops automatically.

To stop while editing

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

Note
• After you use this feature, the audio in playback mode is automatically set to monaural.

To listen to both the hi-fi and normal audio

Set AUDIO MIX to ON in the OPTIONS-1 menu (page 72). Use this feature to listen to dubbed audio over the original hi-fi audio. When AUDIO MIX is set to ON, the AUDIO MONITOR button does not funtion.
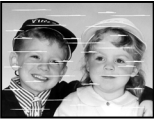
Remember to reset AUDIO MIX to OFF after playing the tape.

Troubleshooting

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

	Symptom	Remedy
Power	The I/⏻ 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 three hours.
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. • If the VCR is connected to the TV only with the aerial cable, make sure that RF MODULATOR in the OPTIONS-2 menu is set to ON.
	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.

Symptoms caused by contaminated video heads

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

initial
contamination   terminal

	Symptom	Remedy
Playback	The picture is no colour.	• The COLOUR SYSTEM option in the OPTIONS-1 menu is set to the wrong position. Set the option to conform to the system that the tape was recorded.
	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. • If you made A/V connections, check the audio cable connection.
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. • If the VCR is connected to the TV using only the aerial cable, make sure that RF MODULATOR in the OPTIONS-2 menu is set to ON. • 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.
	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 same system in your local 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.
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.
	The SHOWVIEW menu or the TIMER menu does not appear.	• Check that TIMER OPTIONS in the OPTIONS-2 menu is set correctly.

Troubleshooting (continued)

	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 $\boxed{TV}$/$\boxed{VIDEO}$ remote control switch is set correctly.
	You cannot watch or record Canal Plus programmes.	• Check that the decoder is connected correctly. • Check that the OPTIONS-2 menu and the TUNER menu are set correctly. For details, see page 34.
	"L3" does not appear in the display window.	• Check that DECODER/LINE3 in the OPTION-2 menu is set to LINE3.
	The SMARTLINK function does not work.	• Check that your TV complies with SMARTLINK, MEGALOGIC, EASYLINK, Q-Link, or EURO VIEW LINK. • Make sure you use the optional EURO-AV cable to connect the VCR and your TV. • Make sure the EURO-AV cable is connected securely.
	The tracking meter does not appear on the TV screen.	• The recording condition of the tape is very poor and tracking cannot be adjusted. • The tracking meter does not appear when playing back an NTSC-recorded tape.
	You cannot control other TVs.	• Set your TV's code number. The code number may change 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)
    VHF 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 (2)
    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
AUDIO OUT (SLV-SE80EN only)
    Phono jack (2)
    Rated output level: 327 mVrms
    Load impedance: 47 kilohms
    Output impedance: less than 10 kilohms
LINE-2 OUT (SLV-SE80EG only)
    AUDIO OUT, Phono jack (2)
    Rated output level: 327 mVrms
    Load impedance: 47 kilohms
    Output impedance: less than 10 kilohms
    VIDEO OUT, Phono jack (1)
    Rated output level: 327 mVrms
    Load impedance: 47 kilohms
    Output impedance: less than 10 kilohms

General

Power requirements
    220 – 240 V AC, 50 Hz
Power consumption
    22 W
Operating temperature
    5°C to 40°C
Storage temperature
    –20°C to 60°C
Dimensions
    Approx. $430 \times 100 \times 314$ 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)
EURO-AV cable (1)
Audio 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
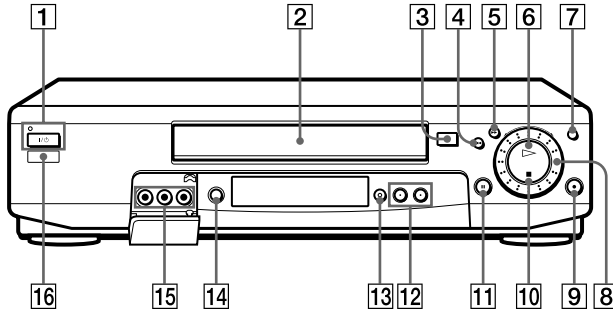
[1] I/(¹) ON/STANDBY switch/
indicator (14)

[2] Tape compartment

[3] ⏏ EJECT button (40)

[4] ◀◀ REW (rewind) button (40, 56)

[5] ▶▶ FF (fast-forward) button (40, 56)

[6] ▷ PLAY button (40, 57)

[7] JOG button (58)

[8] Shuttle ring (57)

[9] ● REC (record) button (44, 59, 75)

[10] ■ STOP button (40, 75)

[11] ❚❚ PAUSE button (40, 75)

[12] PROGRAM/TRACKING +/−
buttons (16, 58, 69)

[13] REALITY REGENERATER button
(69)

[14] AUTO SET UP/
RF (Radio Frequency) CHANNEL
button (14, 16)

[15] LINE-2 IN VIDEO/AUDIO L/R
jacks (74)

[16] Remote sensor (5)

Display window

1 Timer indicator (50, 54)

2 NICAM indicator (SLV-SE80EN only) (62)

3 STEREO indicator (62)

4 Tape speed indicators (44)

5 VIDEO indicator (10, 45)

6 VPS (Video Programme System)/ PDC (Programme Delivery Control) indicator (51)

7 OPC (Optimum Picture Control) indicator (70)

8 SMARTLINK indicator (11)

9 TV indicator (47)

10 Audio dubbing indicator (77)

11 Tracking indicator (69)

12 Time counter/clock/line/ programme position indicator (41, 44, 75)

13 Remaining time indicator (45)

14 Tape/recording indicator (44)

Rear panel (SLV-SE80EN)

[1] Mains lead (9, 12)

[2] AERIAL IN
ANTENNE ENTREE connector (9, 12)

[3] AERIAL OUT
ANTENNE SORTIE connector (9, 12)

[4] NTSC PB (Play Back) switch (40)

[5] DECODER/⊸ LINE-3 IN
DECODEUR/⊸ ENTREE LIGNE-3
connector (34, 74)

[6] ⊃ LINE-1 (TV)
⊃ LIGNE-1 (TV) connector (10, 34)

[7] AUDIO OUT R (right)/L (left)
SORTIE AUDIO D/G jacks (13)

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Rear panel (SLV-SE80EG)
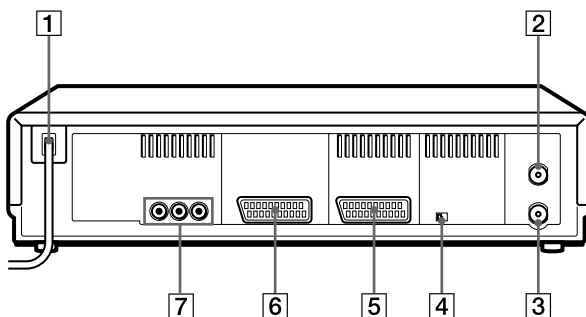
[1] Mains lead (9, 12)

[2] AERIAL IN
ANTENNE ENTREE connector (9, 12)

[3] AERIAL OUT
ANTENNE SORTIE connector (9, 12)

[4] NTSC PB (Play Back) switch (40)

[5] DECODER/⇥ LINE-3 IN
DECODEUR/⇥ ENTREE LIGNE-3 connector (34, 74)

[6] ⇥ LINE-1 (TV)
⇥ LIGNE-1 (TV) connector (10, 34)

[7] LINE-2 OUT VIDEO/AUDIO L/R jacks (13)

Remote commander

1. ⏏ EJECT button (40)

2. WIDE button (*for TV*) (7)

3. AUDIO MONITOR button (62)

4. × 2 button* (57)

5. ▶ SLOW button* (57)

6. SP (Standard Play)/LP (Long Play) button (44)

7. ⊞ DISPLAY button (45)

8. −/−− (ten's digit) button (6, 46)

9. ⌿ (volume) +/− buttons *(for TV)* (7)

10. ● REC (record) button (44, 59)

11. MENU button (18, 60)

12. ‖ PAUSE/↑ button (18, 40)
    ■ STOP/↓ button (18, 40)
    ◀◀ REW (rewind)/← button (40, 56)
    ▶▶ FF (fast-forward)/→ button (40, 56)
    ▷ PLAY/OK button (18, 40)

* FASTEXT buttons (*for TV*)
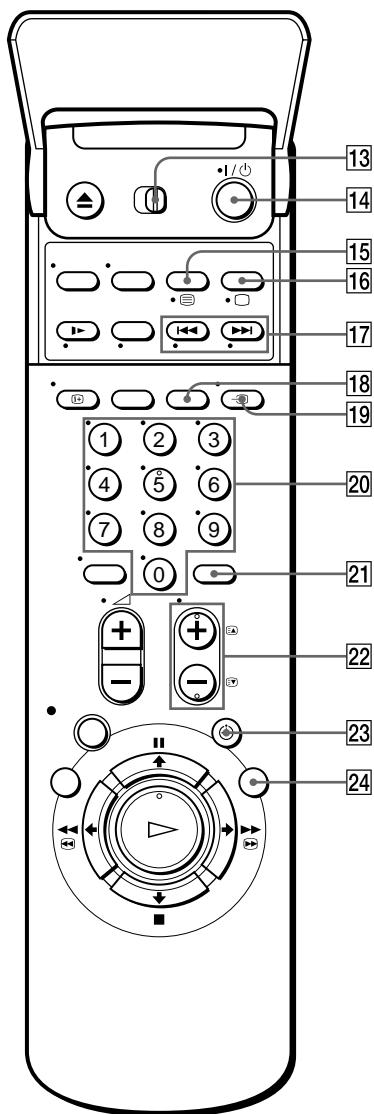
13 TV / VIDEO remote control switch (5)

14 I/⏻ (on/standby) switch (6, 50)

15 COUNTER/REMAIN button (45)

☰ (Teletext) button *(for TV)* (7)

16 AUDIO DUB button (77)

▭ TV power on/TV mode select button *(for TV)* (7)

17 ⏮ /⏭ INDEX SEARCH buttons* (68)

18 CLEAR button (49, 61)

19 ⊸ TV/VIDEO button (6, 45)

20 Programme number buttons (6, 46)

21 INPUT SELECT button (44, 54, 75)

22 PROG (programme) +/– buttons (6, 25, 44)

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

23 ⏲ TIMER button (48, 53)

24 SMART SEARCH button (65)

* FASTEXT buttons (*for TV*)

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