

Black **Trinitron**

KV-14V5U

KV-14V6U

HiBlack **Trinitron**

KV-21V5U

KV-21V6U

Operating Instructions **GB**

Trinitron Colour Video TV

VHS Video

COMBO

VIDEO*plus*

VHS

PAL NTSC 4.43

WARNING

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

Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

Caution

Television programmes, films, video tapes and other materials may be copyrighted.

Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

Colour System of Your Set

This video TV is designed to receive TV programmes based on PAL (I) colour system and to record and play on PAL colour system. The video TV can also play tapes on NTSC colour system.

Precautions Safety Information

For general safety:

- Do not expose the unit to rain or moisture.
- Do not open the rear cover.

For safe operations:

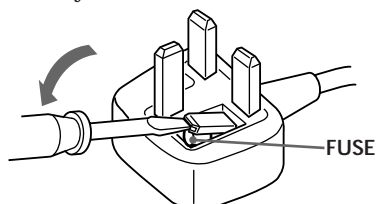
- Do not operate the unit on anything but 220–240 V AC, 50 Hz.
- Do not operate the unit if any liquid or solid object falls in it—have it checked immediately.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with \diamond or \heartsuit) must be used.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



For safe installation:

- Leave a clear space of 5 cm around the unit for adequate ventilation.
- Do not install the unit in hot, humid, or excessively dusty places.
- Do not install the unit where it may be exposed to mechanical vibrations.

For your protection, refer all servicing to qualified personnel.

About Moisture Condensation

If the unit is brought directly from a cold place to a warm place, moisture may condense on the video head drum. If this happens, the tape may stick to the head drum and it may be damaged or the unit may not operate correctly. To avoid possible damage caused by moisture condensation, be sure not to leave a cassette inside the compartment when the unit is not in use. When bringing the unit from a cold place to a warm place, wait for about 10 minutes before operating it.

If the tape operation buttons do not work due to moisture condensation, leave the power on for more than one hour.

●IMPORTANT

If the plug supplied is not suitable for the socket outlets in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:

The wires in this mains lead are coloured in accordance with the following code:

Blue	Neutral
Brown	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol \perp or coloured green or green and yellow.

●WARNING

To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.

- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

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* VIDEO Plus+ and PlusCode are trademarks applied for by Gemstar Development Corp. VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

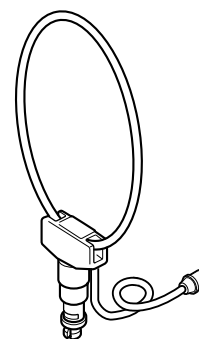
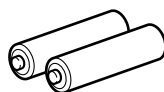
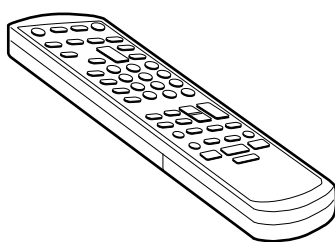
The instructions in this manual are for models KV-14V5U, KV-14V6U, KV-21V5U and KV-21V6U. Before you begin to read this manual, refer to the model number located on the rear of your video TV. Model KV-14V6U is used for illustration purposes throughout this manual. Any differences in operation are indicated in the text, for example, "KV-14V5U, KV-14V6U only."

Step 1 — Preparation

Checking the supplied accessories

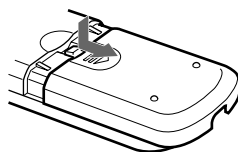
When you have taken everything out of the carton, check that you have these items:

- Remote control
- Two R6 (size AA) batteries
- Loop aerial (KV-14V5U, KV-14V6U only)

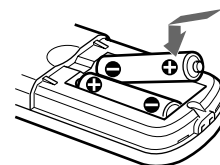


(KV-14V5U, KV-14V6U only)

Inserting batteries into the remote control



Turn the remote control over, and remove the cover.



Check the polarities and position two R6 batteries correctly.

Close the cover.

Note

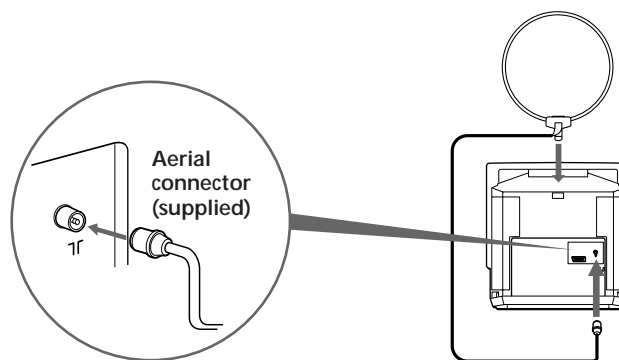
Always remember to dispose of used batteries in an environmentally friendly way.

Step 2 — Connecting the Aerial

Connecting an indoor aerial (KV-14V5U, KV-14V6U only)

If your local VHF/UHF signal is strong, an indoor aerial can be used to obtain a clear picture. Connect the supplied loop aerial as follows:

- 1 Insert the aerial until it clicks.
- 2 Connect to the Γ (aerial) socket.
After turning on the video TV, adjust the aerial for the best reception. Be sure to adjust the aerial for the channel you want to record as well. If reception is poor, connect an outdoor aerial to your video TV.



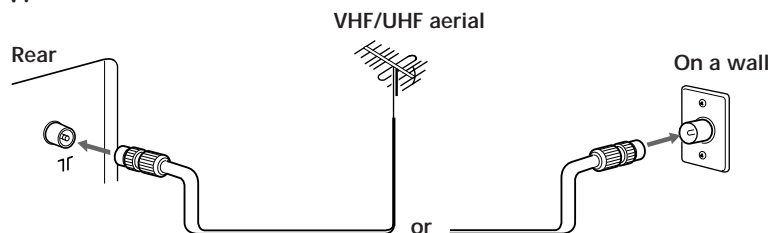
Note
Do not use the supplied loop aerial with any other TV product.

Connecting an outdoor aerial

For better TV reception and clearer recording, connect an outdoor aerial to your video TV.

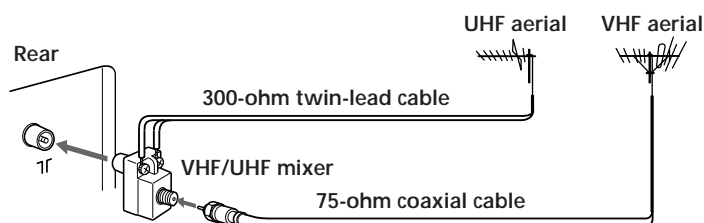
To connect a VHF aerial or a combination VHF/UHF aerial—75-ohm coaxial cable (round)

Attach an IEC aerial connector to 75-ohm coaxial cable. Plug the connector into the Γ (aerial) socket, located at the rear of the video TV.



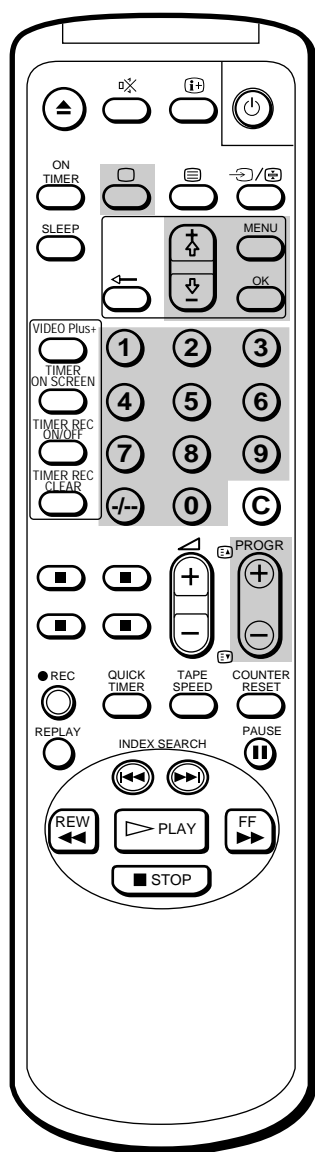
To connect both VHF and UHF aeriels

Attach the aerial cable ends to the VHF/UHF mixer (not supplied). Plug the mixer into the Γ (aerial) socket, located at the rear of the video TV.



After connecting the aerial, connect the mains lead to a wall outlet.

Step 3 — Tuning in to TV Stations



You can preset up to 80 TV channels, either automatically or manually. The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you want to allocate programme numbers to the channels one by one.

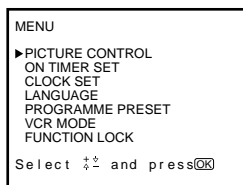
Before you begin

- Depress the ① (MAIN POWER) switch, located behind the cover on the front of the video TV, to turn the TV on.
If the ⏻ lamp on the video TV is lit in red (indicating that the video TV is in standby mode), press □, PROGR +/- or a number button on the remote control.

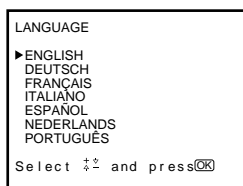
Selecting the menu language

You can select one of several languages for the menu and on-screen information.
The initial setting is English.

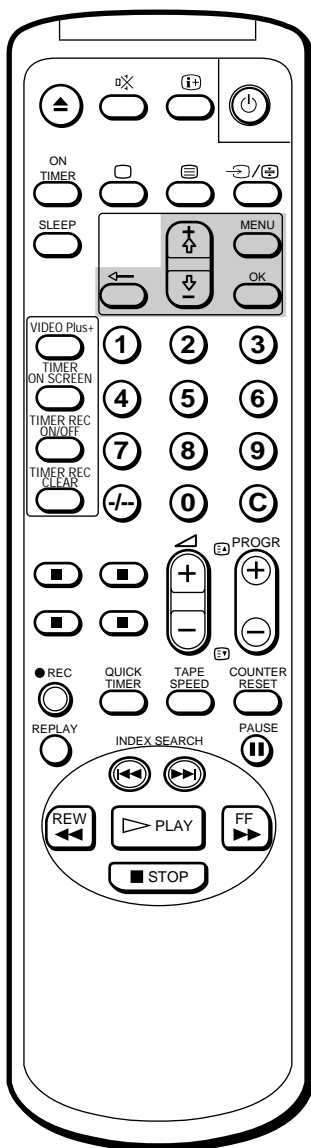
- 1 Press MENU.
The main menu appears.



- 2 Move the cursor (▶) to "LANGUAGE" with + ⏮ or - ⏭ and press OK.
The LANGUAGE menu appears.



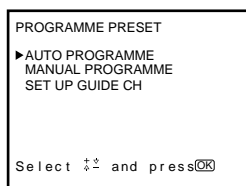
- 3 Select the language you want with + ⏮ or - ⏭ and press OK.
The selected language is coloured green, and the menu appears in the selected language.
- 4 Press MENU to return to the original screen.



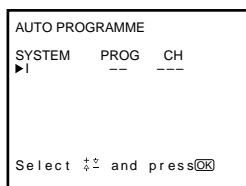
To stop automatic channel presetting
Press **◀** on the remote control.

Presetting channels automatically

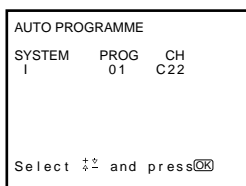
- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to “PROGRAMME PRESET” with + ⬆ or - ⬇ and press OK.
The PROGRAMME PRESET menu appears.



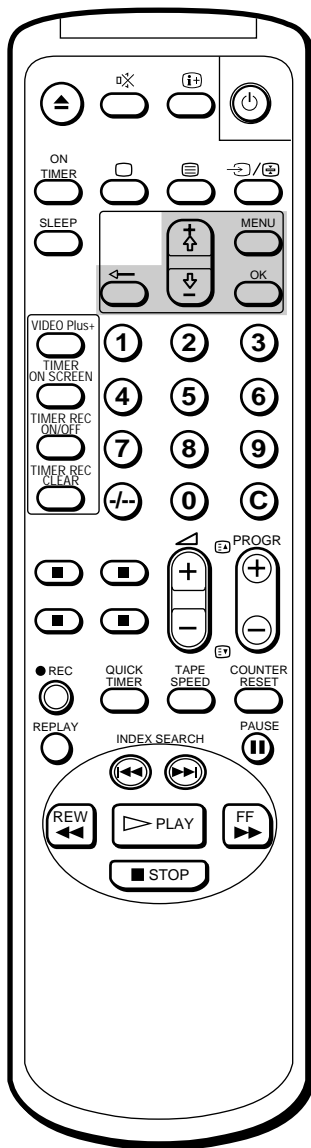
- 3 Move the cursor (▶) to “AUTO PROGRAMME” with + ⬆ or - ⬇ and press OK.
The AUTO PROGRAMME menu appears.



- 4 Press OK.
The programme number you previously watched appears in red in the “PROG” position.
Using + ⬆ or - ⬇, select the programme number from which you want to start presetting and press OK. You cannot begin presetting at 00.
The CH position turns red.



- 5 Select the channel with + ⬆ or - ⬇ and press OK.
The video TV starts scanning and presetting all receivable channels from the programme number selected in step 4.
The preset programme and channel numbers are displayed on the screen in sequence. When presetting is finished, the original screen reappears.
All available channels are now stored on successive number buttons.



For programme positions beyond 6

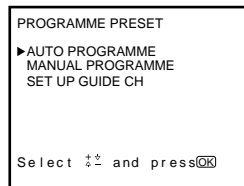
The display scrolls by pressing - ▾ repeatedly.

If you have made a mistake

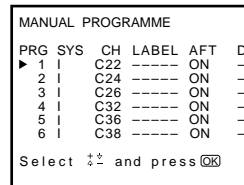
Press ◀ to return to the previous position.

Presetting channels manually

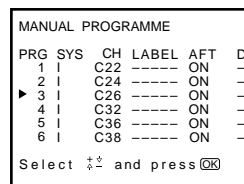
- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to "PROGRAMME PRESET" with + ⬆ or - ▾ and press OK.
The PROGRAMME PRESET menu appears.



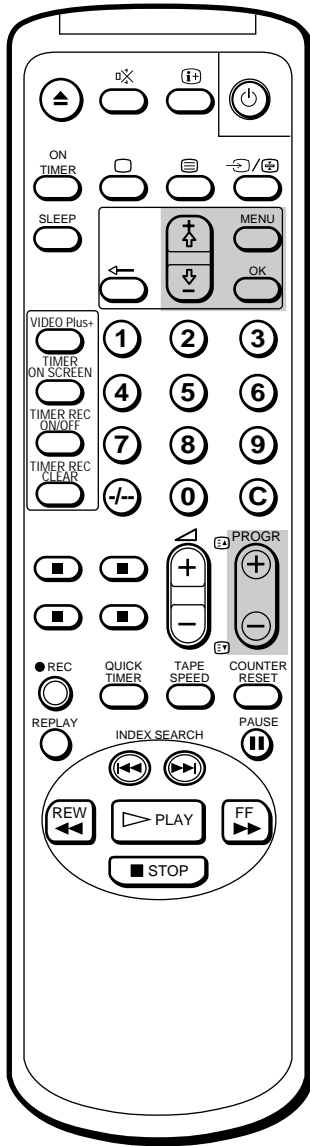
- 3 Move the cursor (▶) to "MANUAL PROGRAMME" with + ⬆ or - ▾ and press OK.
The MANUAL PROGRAMME menu appears.



- 4 Using + ⬆ or - ▾, move the cursor (▶) to the programme position (number button) to which you want to preset the channel, and press OK.
The SYS position turns red.



- 5 Select the system with + ⬆ or - ▾ and press OK.
The CH position turns red.
- 6 Select the channel you want to preset with + ⬆ or - ▾ and press OK.
- 7 The video TV starts scanning receivable channels. When the channel is found, it stops. If you want to preset this channel, press OK. If not, press + ⬆ or - ▾ to search for another channel.
- 8 Repeat steps 4 through 7 to preset other channels.
- 9 After you finish presetting, press MENU to return to the original screen.



Skipping programme positions

You can skip unused programme positions when selecting programmes with PROGR +/- buttons.

- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to “PROGRAMME PRESET” with + ⬆ or - ⬇ and press OK.
The PROGRAMME PRESET menu appears.
- 3 Move the cursor (▶) to “MANUAL PROGRAMME” with + ⬆ or - ⬇ and press OK.
The MANUAL PROGRAMME menu appears.
- 4 Using + ⬆ or - ⬇, move the cursor (▶) to the programme position which you want to skip and press OK.
The “SYS” position turns red.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1		C22	-----	ON	-	
2		C24	-----	ON	-	
▶		C26	-----	ON	-	
4		C32	-----	ON	-	
5		C36	-----	ON	-	
6		C38	-----	ON	-	

Select ⬆⬇ and press OK

- 5 Press + ⬆ or - ⬇ until “---” appears in the “SYS” position and press OK.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1		C22	-----	ON	-	
2		C24	-----	ON	-	
▶	---	C26	-----	ON	-	
4		C32	-----	ON	-	
5		C36	-----	ON	-	
6		C38	-----	ON	-	

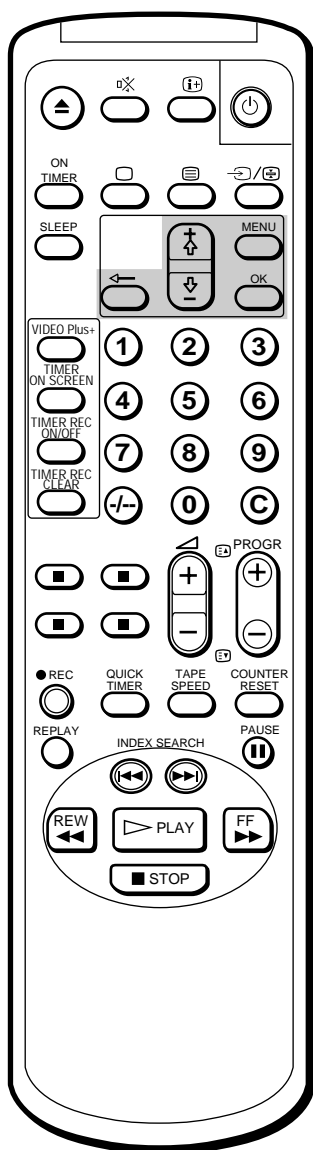
Select ⬆⬇ and press OK

When you select programmes using the PROGR +/- buttons, the programme position is skipped.

- 6 Repeat steps 4 and 5 to skip other programme positions.
- 7 Press MENU to return to the original screen.

For programme positions beyond 6

The display scrolls by pressing - ⬇ repeatedly.



Captioning a TV station name

You can name a channel using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. MTV). Using this function, you can easily identify which channel you are watching.

- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to "PROGRAMME PRESET" with + ⬆ or - ⬇ and press OK.
The PROGRAMME PRESET menu appears.
- 3 Move the cursor (▶) to "MANUAL PROGRAMME" with + ⬆ or - ⬇ and press OK.
The MANUAL PROGRAMME menu appears.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
▶ 1	I	C22	-----	ON	-	
2	I	C24	-----	ON	-	
3	I	C26	-----	ON	-	
4	I	C32	-----	ON	-	
5	I	C36	-----	ON	-	
6	I	C38	-----	ON	-	

Select ⬆⬇ and press OK

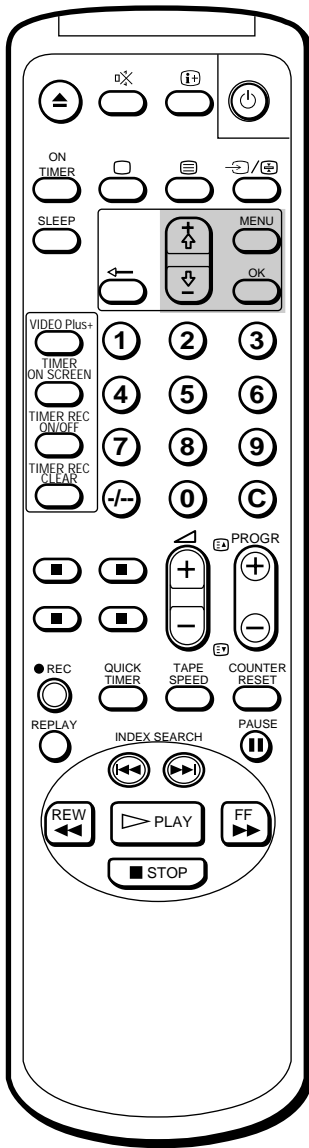
- 4 Using + ⬆ or - ⬇, move the cursor (▶) to the programme position you want to caption and press OK repeatedly until the first element of the "LABEL" position turns red.
- 5 Select a letter or number with + ⬆ or - ⬇ and press OK.
The next element turns red. Select other characters in the same way. For the element you want to leave blank, select "-" and press OK.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1	I	C22	-----	ON	-	
2	I	C24	MTV--	ON	-	
3	I	C26	-----	ON	-	
4	I	C32	-----	ON	-	
5	I	C36	-----	ON	-	
6	I	C38	-----	ON	-	

Select ⬆⬇ and press OK

If you have made a mistake
Press ◀ to return to the previous position.

- 6 After selecting all the characters, press OK repeatedly until the cursor appears. Now the caption you chose is stored.
- 7 Repeat steps 4 through 6 to caption other channels.
- 8 Press MENU to return to the original screen.



Manual fine-tuning

Normally, the automatic fine-tuning (AFT) is already working. However, if the picture of a programme is distorted, you can use the manual fine-tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to "PROGRAMME PRESET" with + ⬆ or - ⬇ and press OK.
The PROGRAMME PRESET menu appears.
- 3 Move the cursor (▶) to "MANUAL PROGRAMME" with + ⬆ or - ⬇ and press OK.
The MANUAL PROGRAMME menu appears.
- 4 Using + ⬆ or - ⬇, move the cursor (▶) to the programme position which you want to manually fine-tune, and press OK repeatedly until the AFT position turns red.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1	I	C22	-----	ON	-	
2	I	C24	-----	ON	-	
▶ 3	I	C26	-----	ON	-	
4	I	C32	-----	ON	-	
5	I	C36	-----	ON	-	
6	I	C38	-----	ON	-	

Select ⬆⬇ and press OK

- 5 Fine-tune the channel while holding down + ⬆ or - ⬇ so that you get the best TV reception. As you press these buttons, the frequency changes from -15 to +15.

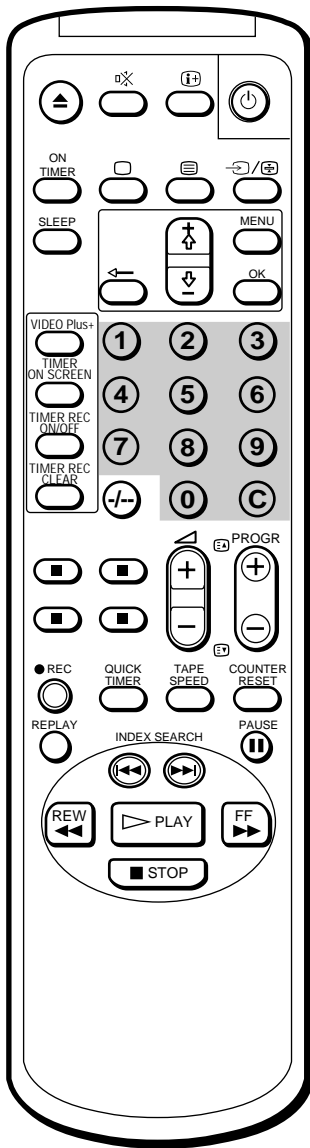
MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1	I	C22	-----	ON	-	
2	I	C24	-----	ON	-	
▶ 3	I	C26	-----	-3	-	
4	I	C32	-----	ON	-	
5	I	C36	-----	ON	-	
6	I	C38	-----	ON	-	

Select ⬆⬇ and press OK

To reactivate automatic fine-tuning (AFT)

Repeat from the beginning and select "ON" in step 5.

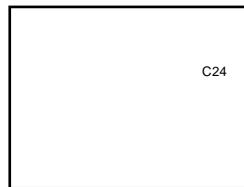
- 6 After fine-tuning, press OK.
The cursor (▶) appears. The fine-tuned level is now stored.
- 7 Repeat steps 4 through 6 to fine-tune other channels.
- 8 Press MENU to return to the original screen.



Tuning in to a channel temporarily

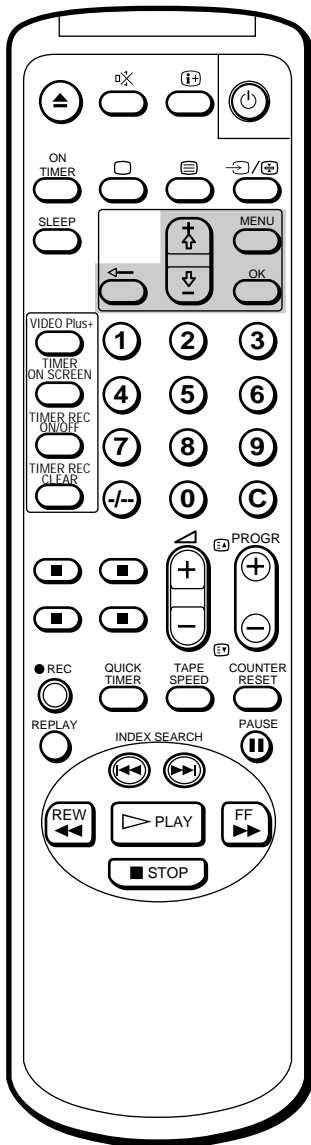
You can tune in to a channel temporarily, even when the channel has not been preset.

- 1 Press C on the remote control.
The indication "C" (for UHF channels) will appear on the screen.
- 2 Enter the double digit channel number using the remote control number buttons (e.g. for channel 24, press 2, then 4).
The channel will appear. However, this channel will not be stored in the video TV's memory.



Note (KV-14V6U, KV-21V6U only)

In order to record a programme received through a Pay-TV decoder, you must preset the channel according to the method on page 8 "Presetting channels manually", or page 13 "Setting a pay-TV channel," and then tune in to the channel according to the method on page 17 "Selecting TV programmes".



Setting a Pay-TV channel (KV-14V6U, KV-21V6U only)

You can watch Pay-TV channels by connecting a Pay-TV decoder to the 1/ 1 connector on the rear of the video TV.

- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to “PROGRAMME PRESET” with + ⬆ or - ⬇ and press OK.
The PROGRAMME PRESET menu appears.
- 3 Move the cursor (▶) to “MANUAL PROGRAMME” with + ⬆ or - ⬇ and press OK.
The MANUAL PROGRAMME menu appears.
- 4 Move the cursor (▶) to the programme position to which you want to set the pay-TV decoder, and press OK until the D position turns red.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1	I	C22	-----	ON	-	-
2	I	C24	-----	ON	-	-
▶ 3	I	C26	-----	ON	-	-
4	I	C32	-----	ON	-	-
5	I	C36	-----	ON	-	-
6	I	C38	-----	ON	-	-

Select ⬆⬇ and press OK

- 5 Press + ⬆ or - ⬇ until ● appears in the D position and press OK.

MANUAL PROGRAMME						
PRG	SYS	CH	LABEL	AFT	D	
1	I	C22	-----	ON	-	-
2	I	C24	-----	ON	-	-
3	I	C26	-----	ON	●	-
4	I	C32	-----	ON	-	-
5	I	C36	-----	ON	-	-
6	I	C38	-----	ON	-	-

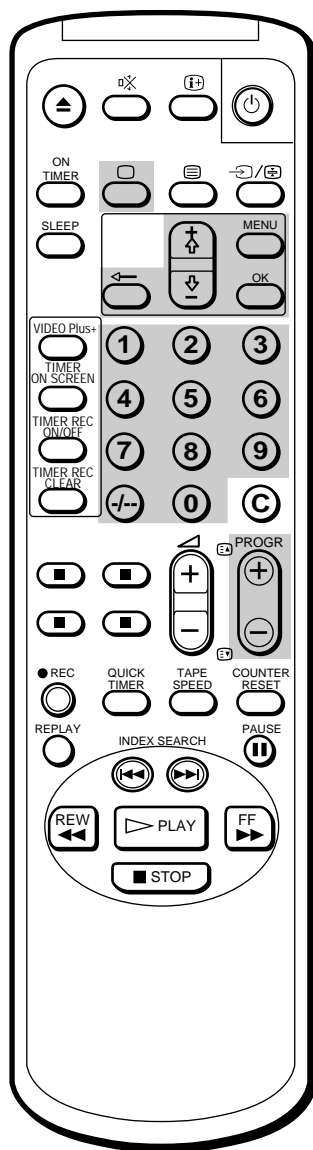
Select ⬆⬇ and press OK

- 6 Press MENU to return to the original screen.

Note

While you are recording a program which is being recorded through the Pay-TV decoder, you will not be able to view other programmes through the decoder.

Step 4 — Setting up VIDEO Plus+ Manually



If you have made a mistake
Press **←** to return to the previous position.

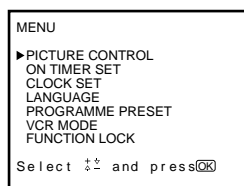
The VIDEO Plus+ function allows you to simplify the task of programming your video TV to make timer recordings. You should coordinate the programme position of each channel with the guide channel (the number that's assigned to each TV station in advance). To find the guide channel numbers, look in the programme guide for your area that features PlusCodes. See "Guide channels for VIDEO Plus+" on the next page.

Before you begin

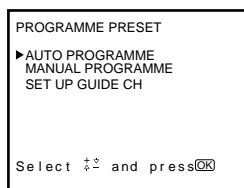
- If the lamp on the video TV is lit in red (indicating that the video TV is in standby mode), press , **PROGR +/-** or a number button on the remote control.

Setting the guide channels

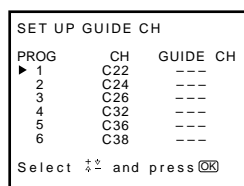
- 1 Press **MENU** to display the main menu.
The main menu appears.

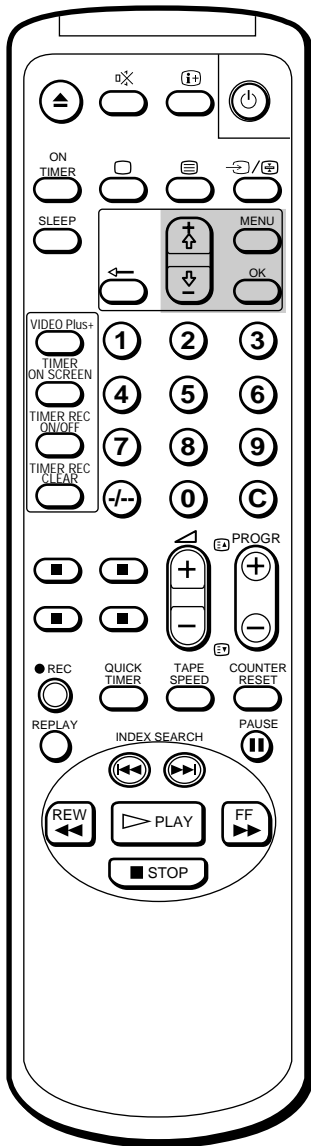


- 2 Move the cursor (**▶**) to "PROGRAMME PRESET" with **+ ↑** or **- ↓** and press **OK**.
The PROGRAMME PRESET menu appears.



- 3 Move the cursor (**▶**) to "SET UP GUIDE CH" with **+ ↑** or **- ↓** and press **OK**.
The SET UP GUIDE CH menu appears.





- Using + \uparrow or - \downarrow , move the cursor (▶) to the programme position (number button) to which you want to preset the guide channel, and press OK. The GUIDE CH position turns red.

SET UP GUIDE CH		
PROG	CH	GUIDE CH
1	C22	---
2	C24	---
3	C26	---
4	C32	---
5	C36	---
6	C38	---

Select $\uparrow\downarrow$ and press OK

- Select the guide channel you want to preset with + \uparrow or - \downarrow , and press OK.

SET UP GUIDE CH		
PROG	CH	GUIDE CH
1	C22	---
2	C24	---
▶ 3	C26	99
4	C32	---
5	C36	---
6	C38	---

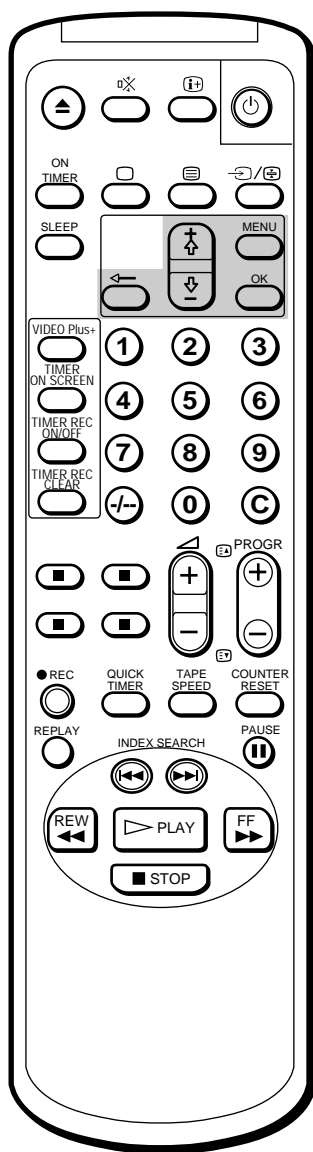
Select $\uparrow\downarrow$ and press OK

- Repeat steps 4 and 5 to preset other channels.
- After you finish presetting, press MENU to return to the original screen.

Guide channels for VIDEO plus+

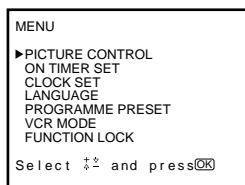
Guide channel	Station name	Guide channel	Station name
001	BBC1	122	TELECLUB
002	BBC2	123	UK GOLD
003	ITV	124	DISCOVERY
004	CHANNEL 4		THE LEARNING CHANNEL
005	RTE (IRELAND)		CHANNEL
006	NETWORK 2 (IRELAND)	125	BRAVO
101	SKY ONE		ADULT CHANNEL
102	SKY NEWS	126	CNN
103	SKY MOVIES	127	EURONEWS
104	THE MOVIE CHANNEL	129	QVC
105	SKY SPORT	130	UK LIVING
106	NICKELODEON	131	RAI 1
	VH-1 GERMANY	132	RAI 2
107	EUROSPORT	133	TV5 EUROPE
108	GALAVISION	134	TVE INTERNATIONAL
109	MTV EUROPE	135	MBC/ARABIC
110	CHILDREN'S CHANNEL	136	VTM
	THE FAMILY CHANNEL	137	SPORTNET
111	SKY MOVIES GOLD	138	COUNTRY MUSIC TV
112	BBC WORLD SERVICE	139	VIDEO HITS ONE
113	RTL 4		VH-1
114	SUPER SPORT	140	SKY SPORT 2 & SOAPS & TRAVEL
	FILMNET 2		TRAVEL
	FILMNET +	141	TV ASIA
115	RTL PLUS	142	LA-5
	INTERNATIONAL	143	LIVE TV
116	SAT 1	144	SUPERCHANNEL
117	PREMIERE	145	JAPAN TV
118	3 SAT	146	SELECT TV
119	ARD	147	MOVIE CHANNEL
120	PRO 7		FILMNET 1 149
121	TELE 5	149	TNT
			CARTOON NETWORK

Step 5 — Setting the Clock

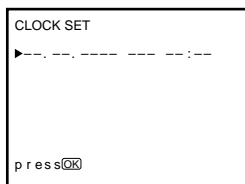


You need to set the clock in order to use timer recording and quick-timer recording functions.

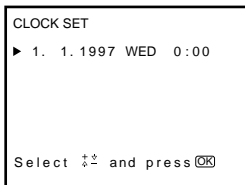
- 1 Press MENU to display the main menu.



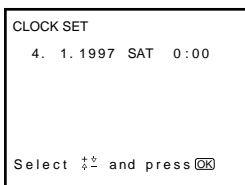
- 2 Move the cursor (▶) to “CLOCK SET” with + ↕ or - ⇓ and press OK. The CLOCK SET menu appears.



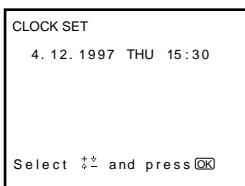
- 3 Press OK to start setting the clock. The day section turns red.



- 4 Set the day with + ↕ or - ⇓ and press OK. The month section turns red.



- 5 Using + ↕ or - ⇓ and OK, set the month, year, hour and minute in the same way as in step 4.



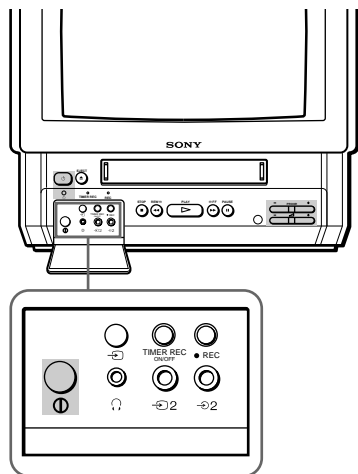
- 6 After setting the minute, press OK. The clock starts working.

- 7 Press MENU to return to the original screen.

If you have made a mistake
Press ◀ to return to the previous position.

If the clock has stopped and “-/-” is displayed
You have to re-set the clock.

Watching the TV



This section explains the basic functions you use while watching the TV. Most of the operations can be done using the remote control.

Switching the video TV on and off

Switching on

Depress the (MAIN POWER) switch, which is located behind the cover on the front of the video TV. Press , PROGR +/- or number buttons on the remote control, or PROGR +/- on the video TV when the lamp is lit in red (indicating that the video TV is in standby mode).

Switching off temporarily

Press .
The video TV enters standby mode and the lamp on the front of the video TV lights up in red.

To switch on again

Press , PROGR +/- or number buttons on the remote control, or PROGR +/- on the video TV.

To switch off the main power

Press the switch on the video TV.

Selecting TV programmes

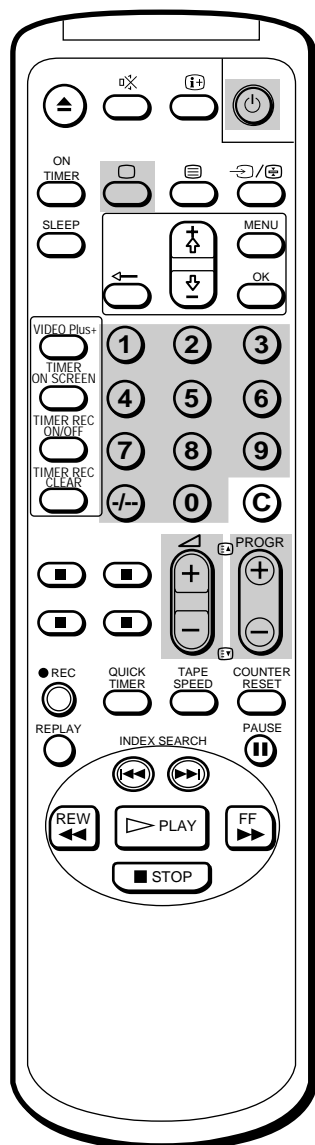
Press PROGR +/- or number buttons on the remote control, or PROGR +/- on the video TV.

To select a double-digit number using the number buttons

Press , then the numbers.
For example, if you want to choose 24, press , 2 and 4.

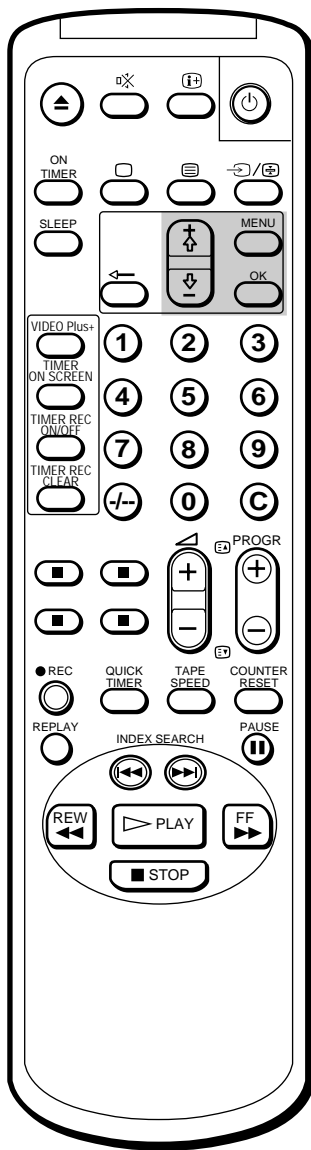
Adjusting the volume

Press +/-.



Note

When the switch is turned off, the video operations do not work.

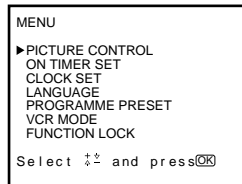


Note

The HUE adjustment is available only for the NTSC colour system.

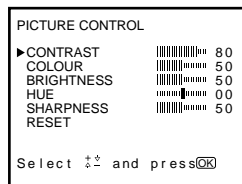
Adjusting the picture

1 Press MENU to display the main menu.



2 Move the cursor (▶) to “PICTURE CONTROL” with + ⬆ or - ⬇ and press OK.

The PICTURE CONTROL menu appears.



3 Using + ⬆ or - ⬇, select the item you want to adjust and press OK.

4 Adjust the picture with + ⬆ or - ⬇ and press OK.

With each press the vertical bars increase or decrease and the figure at the right margin changes to show the control level. (See the table below.)

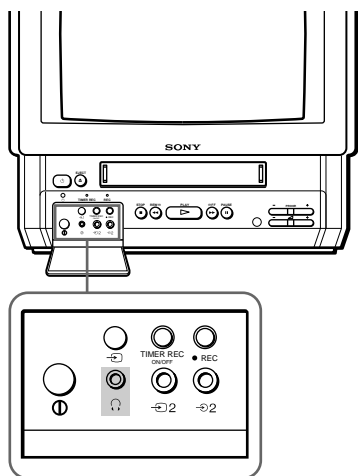
5 Repeat steps 3 and 4 to adjust other items.

6 Press MENU to return to the original screen.

The adjusted control levels are stored.

Effect of each control

PICTURE CONTROL	Effect
CONTRAST	Less More
COLOUR	Less More
BRIGHTNESS	Darker Brighter
HUE	Greenish Reddish
SHARPNESS	Softer Sharper
RESET	Resets all the items to the factory preset levels.



Muting the sound

Press .


The  indicator appears and stays on the screen.

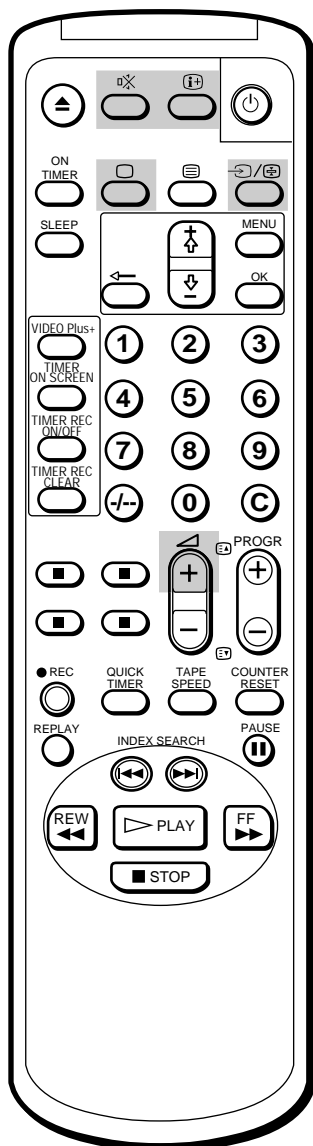
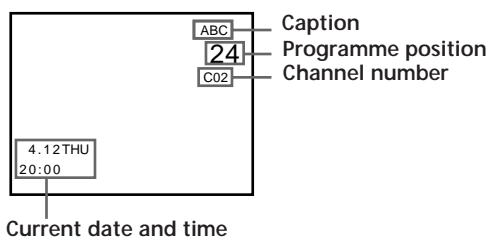
To resume normal sound, press  again or  +.

Displaying the on-screen information

Press  to display the following on-screen information.



To have the programme number, channel number and caption stay on the screen, press  again.

To make the indications disappear, press  until no indications are displayed on the screen.




Watching line input

Press  repeatedly until the desired input indicator appears.

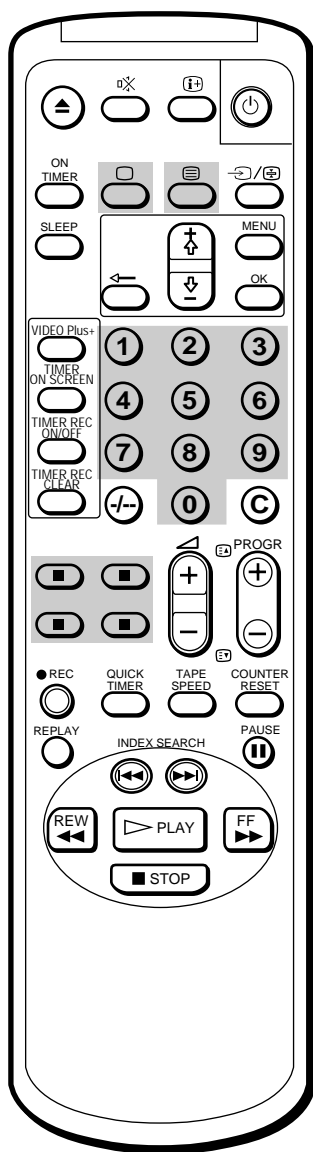
To return to the normal TV picture, press  until the programme position appears, or press  on the remote control once. For details of the video input picture, see page 42.

Listening with headphones

Plug the headphones (not supplied) into the  (headphones) jack which is located behind the cover on the front of the video TV.



The sound from the speaker is turned off.

Viewing Teletext



TV stations broadcast an information service called Teletext via the TV channels. The Teletext service allows you to receive various information, such as weather forecasts or news, at any time.

Switching Teletext on and off


- 1 Select the TV channel which carries the Teletext service you want to watch.
- 2 Press  to display Teletext.
A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, the indication P100 is displayed on a black screen.
- 3 Press the number buttons to enter the three digits of the Teletext number you want.
The numbers are displayed on the screen and the requested page appears in a few seconds.
If you have made a mistake, type in any three digits, then re-enter the correct page number.
- 4 Press  to return to the TV mode.

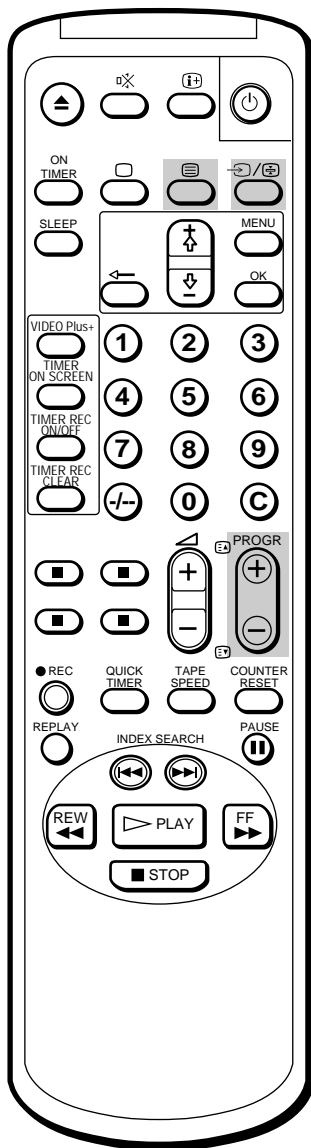
Using Fasttext

This feature allows you to access a Teletext page by pressing only one button. When a Fasttext page is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of the menu correspond to the red, green, yellow and blue buttons on the remote control. These coloured buttons function as the Fasttext buttons in Teletext mode.

Press the coloured button which corresponds to the colour-coded menu. The page is displayed after a few seconds.

To change the Teletext channel

- First press  to return to the TV mode, then repeat steps 1 through 3.
- If the signal of a TV channel is weak, Teletext errors may occur.



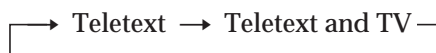
Accessing the next or preceding page

Press **PROGR** +/-/**▲**/**▼**.

The next or preceding page appears on the screen.

Superimposing a Teletext page on the TV picture

Each time you press **☰**, the screen changes as follows:



Preventing a Teletext page from being updated or changed

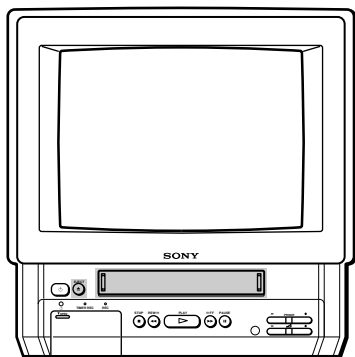
A Teletext page may consist of several subpages. You can stop the page scrolling in order to read the text at your own pace.

Press **⏸** (HOLD).

The symbol **⏸** appears on the screen and the selected subpage is held.

Press **⏸** again to return to normal Teletext operation.

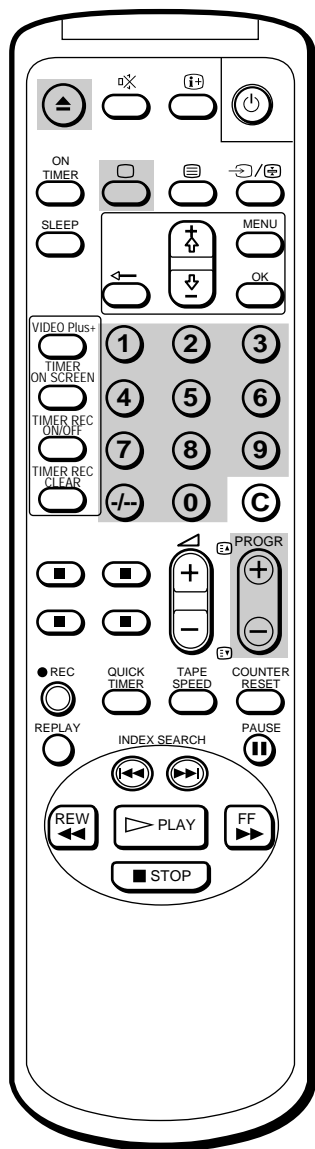
Playing a Tape



This section shows you how to insert a video cassette and to play it. More convenient functions you can use while playing a tape are described in “Additional Operations” on page 36.

Inserting a video cassette

- 1 Press \square , **PROGR +/-** or number buttons on the remote control, or **PROGR +/-** on the video TV when the ⏻ lamp is lit in red (indicating that the video TV is in standby mode).
- 2 Gently insert a cassette with the arrow indication facing upwards. The cassette is automatically loaded into the cassette compartment. The ⏻ indicator appears on the screen and stays until the cassette has been loaded. The video TV turns on automatically when it is in standby mode. If you insert a cassette with its safety tab removed, playback starts.



Ejecting a video cassette

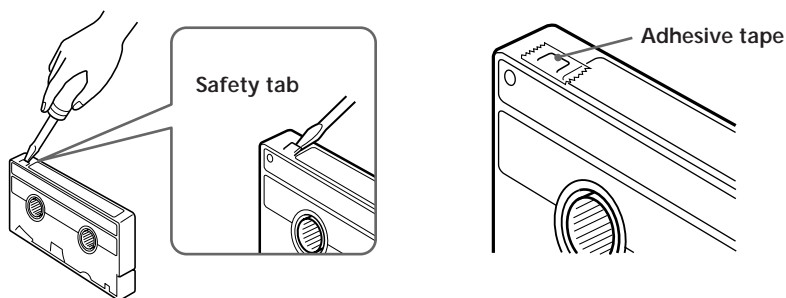
Press **EJECT \blacktriangle** on the video TV or \blacktriangle on the remote control. The ⏻ indicator appears and stays until the cassette is ejected. You can eject the cassette even if the power is in standby.

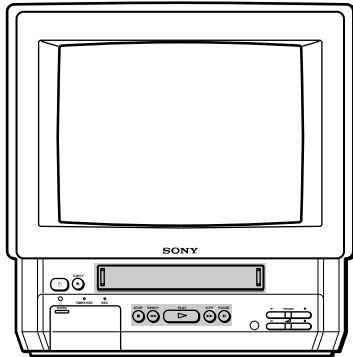
Protecting your cassette against accidental erasure

The cassette is provided with a safety tab to protect against accidentally erasing a previous recording. Break off the safety tab with a screw driver or a similar tool to prevent recording.




If the safety tab is removed, the cassette is ejected when you try to record on it.

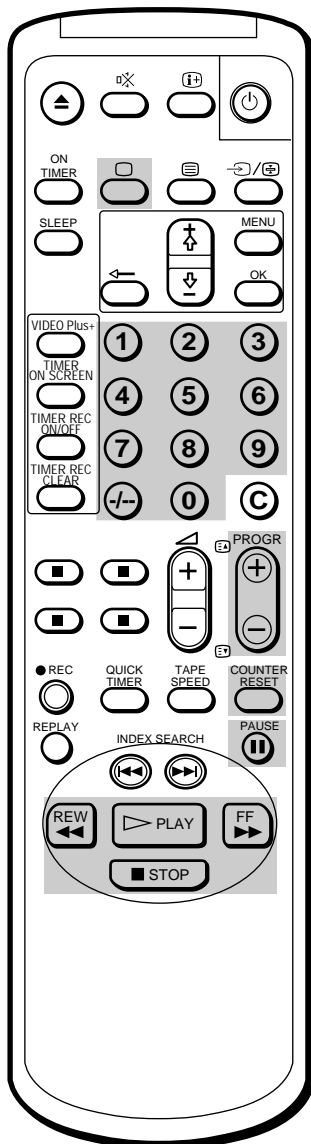
To record on a cassette with the safety tab broken off, simply cover the tab hole with adhesive tape.





Playing a tape

- 1 If the  lamp on the video TV is lit in red (indicating that the video TV is in standby mode), press , **PROGR +/-** or a number button on the remote control.
 - 2 Insert the tape.
If you insert a tape with the safety tab removed, playback begins immediately.
 - 3 Press **PLAY** .
- Playback begins. On-screen information will automatically disappear after several seconds.



To stop playback

Press **STOP** .

The video TV returns to the normal TV picture.


To stop playback for a moment

Press **PAUSE** .

Press **PAUSE**  again or press **PLAY**  to resume playback.

If you leave your video TV in pause mode, normal playback resumes after about 5 minutes.

To fast forward the tape

Press **STOP** , then press **FF** .

To rewind the tape

Press **STOP** , then press **REW** .

To search a tape at high speed

During playback, press and hold **REW**  (rewind) or **FF**  (fast forward). A high-speed picture appears on the TV screen.

To resume normal playback, release the button.

To view the picture in fast forward or rewind mode

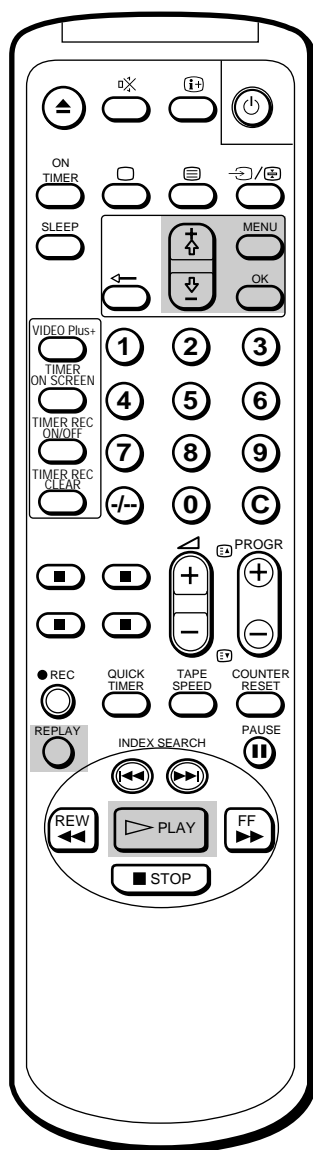
Press and hold **FF**  during fast forward or **REW**  during rewind.

While you hold the button, you can view the picture.

When you release the button, fast forward or rewind mode is resumed.

Resetting the tape counter

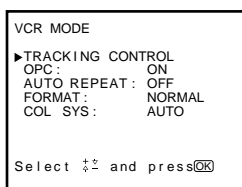
The tape counter helps you to locate a certain scene after playback. Press **COUNTER RESET** on the remote control to set the counter to "0:00:00" before playing the tape. The tape counter is automatically reset to "0:00:00" whenever a cassette is inserted. The video TV keeps counting the length of the tape being played. Note, however, that the tape counter does not count the portions without video signals recorded.



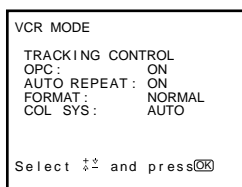
Playing a tape repeatedly (AUTO REPEAT)

You can play the recorded portion of a tape repeatedly.

- 1 Press MENU.
The main menu appears.
- 2 Using the + \uparrow or - \downarrow buttons, move the cursor (\blacktriangleright) to "VCR MODE," then press OK.



- 3 Using the + \uparrow or - \downarrow buttons, move the cursor (\blacktriangleright) to "AUTO REPEAT," then press OK.
- 4 Using the + \uparrow or - \downarrow buttons, select ON.



- 5 Press PLAY \blacktriangleright .
Playback begins. When the tape reaches its end, it will automatically rewind and begin playing again.

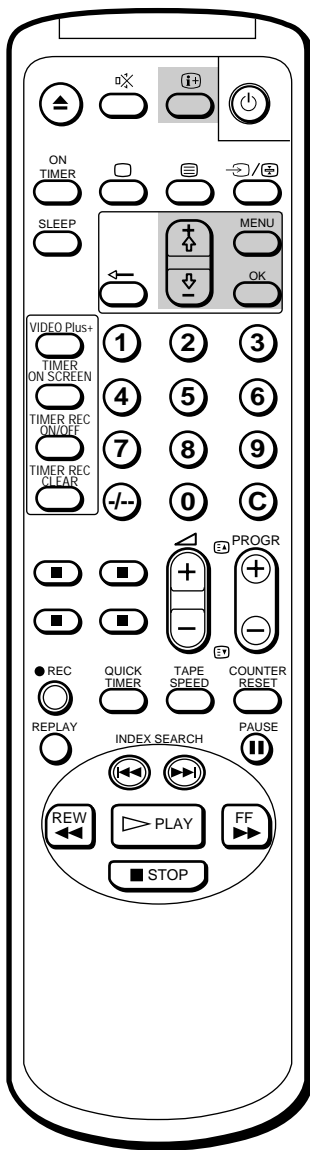
Replaying a scene automatically

You can use the REPLAY key on your remote control to automatically replay scenes.

Press REPLAY.

The tape will rewind for ten seconds of viewing time and then begin playing automatically.

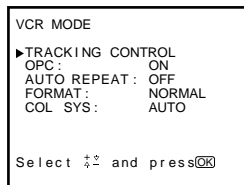
If you wish to replay more than ten seconds, press REPLAY repeatedly. Each time you press the button, it will add ten seconds onto the playing time, up to a total of 40 seconds.



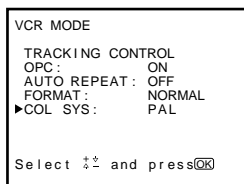
Setting the colour system

Normally, you will want to leave the colour system on AUTO. However, if you notice streaks appearing on the screen during playback, you may want to set the colour system to the system that the tape was recorded in.

- 1 Press MENU.
The main menu appears.
- 2 Using the + ⬆ or - ⬇ buttons, move the cursor (▶) to "VCR MODE," then press OK.



- 3 Using the + ⬆ or - ⬇ buttons, move the cursor (▶) to "COL SYS," then press OK.
- 4 Press the + ⬆ or - ⬇ buttons until the corresponding colour system appears (PAL or NTSC), then press OK.



- 5 Press MENU to return to the original screen.

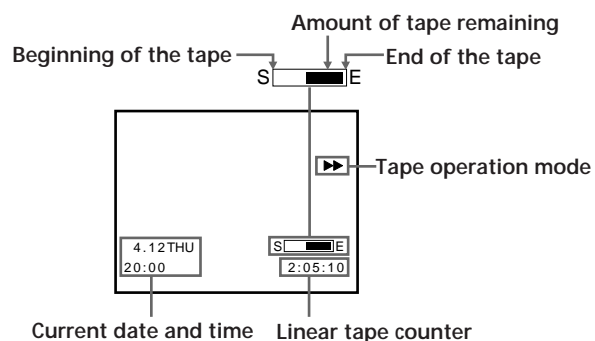
Displaying the on-screen indications

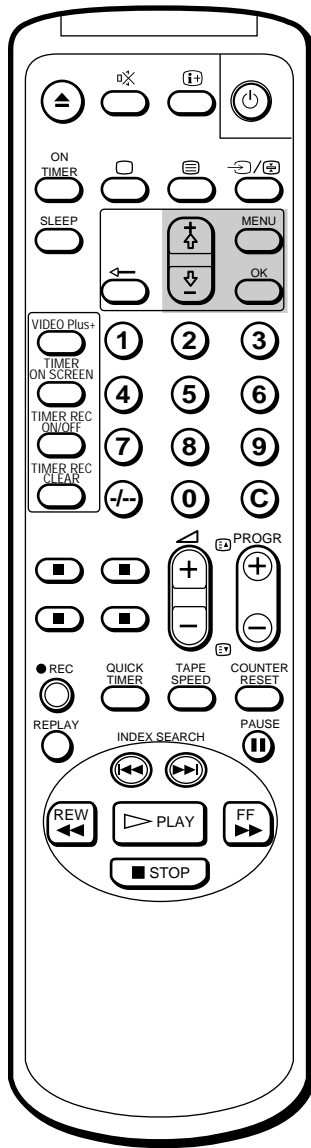
Note

The tape operation mode will be displayed whenever you change the mode (even when the **[i+]** is turned off.)

Press **[i+]** to display the following on-screen information. To show only the amount of tape remaining and linear tape counter on the screen, press **[i+]** again.

To make the indications disappear, press **[i+]** until no indications appear.

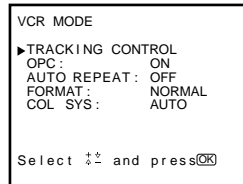




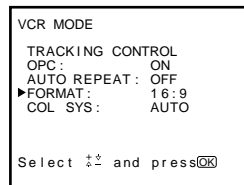
Viewing programmes in 16:9 mode

When viewing recordings of programmes which were originally broadcast in 16:9 mode, you will want to set your video TV to 16:9 mode to prevent a distorted picture.

- 1 Press MENU.
The main menu appears.
- 2 Using the + \uparrow or - \downarrow buttons, move the cursor (\blacktriangleright) to "VCR MODE," then press OK.



- 3 Using the + \uparrow or - \downarrow buttons, move the cursor (\blacktriangleright) to "FORMAT," then press OK.
- 4 Press the + \uparrow or - \downarrow buttons, select 16:9, then press OK.

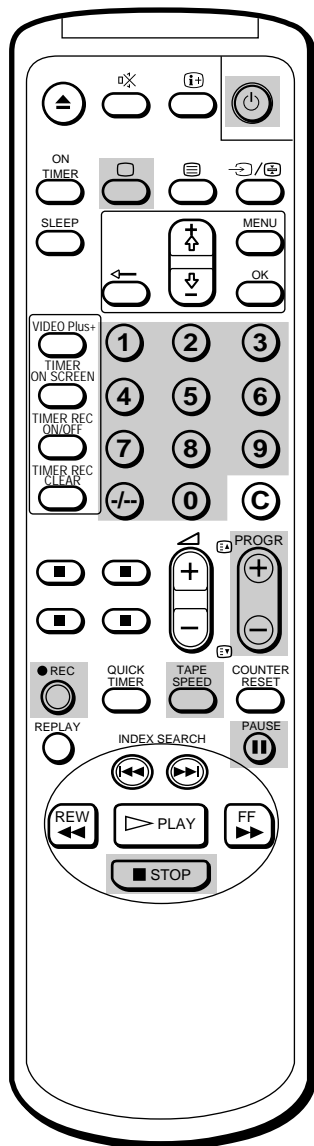
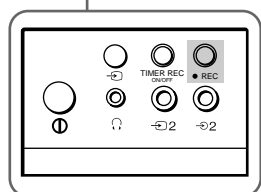
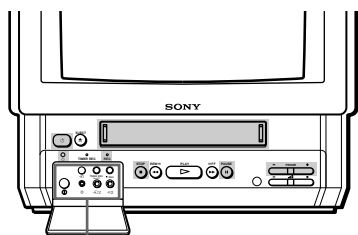


- 5 Press MENU to return to the original screen.

Note

When you change channels, switch between input sources, or turn the power on and off, the video TV will switch back to normal mode.

Recording TV Programmes



Note (KV-14V6U, KV-21V6U only)

In order to record a Pay-TV programme, you must set the desired Pay-TV channel as explained in "Setting a Pay-TV channel" (page 13).

Recording TV programmes

- 1 Press \square , PROGR +/- or number buttons on the remote control, or PROGR +/- on the video TV when the ⏻ lamp is lit in red (indicating that the video TV is in standby mode).
- 2 Insert a cassette with a safety tab.
- 3 Press TAPE SPEED to select the recording speed, SP (Standard Play), or LP (Long Play). Recording in LP mode will extend the length of your tape.
Maximum recording time
SP mode: 4 hours with E-240
LP mode: 8 hours with E-240
- 4 Select the programme position with PROGR +/- . You can also use number buttons on the remote control. For double-digit numbers (e.g. 24), first press -/--, then press 2 and 4.
- 5 Press REC \bullet .
The REC lamp on the front of the video TV lights up and recording begins.

To stop recording

Press STOP \blacksquare .

When the tape reaches the end, the video TV rewinds the tape automatically to the beginning, then stops. This function does not work when the power of the video TV is off.

To pause recording

Press PAUSE || .

To resume recording, press PAUSE || again.

You can cut out an unwanted scene during recording with this button.

- 1 Press PAUSE || when an unwanted scene appears on the screen.
Recording pauses.
- 2 Press PAUSE || again to release the pause mode at the desired scene.
Recording resumes from the point set in step 1.

When the recording pause mode lasts for about 5 minutes, the video TV stops recording.

Recording with the TV off

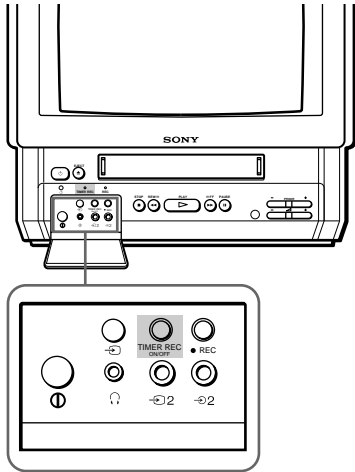
Press ⏻ .

The TV screen is turned off and the ⏻ lamp lights up.
The video TV continues recording.

Watching a TV programme while recording another (KV-14V6U, KV-21V6U only)

You can watch a TV programme and record another at the same time if your video TV has two tuners. Only models KV-14V6U and KV-21V6U are equipped with two tuners.

Select the desired programme position with PROGR +/- or the number buttons on the remote control or PROGR +/- on the video TV.



Daily/weekly recording

You can preset your video TV to record the same programme every day of the week (daily recording) or the same programme on the same day every week (weekly recording). Press \downarrow in step 3 until the desired setting appears in the "DATE" position. With each press, the setting changes as follows:

4 (today) \rightarrow MON-SUN \rightarrow MON-SAT \rightarrow MON-FRI \rightarrow EVERY SAT \rightarrow EVERY FRI \rightarrow EVERY THU \rightarrow EVERY WED \rightarrow EVERY TUE \rightarrow EVERY MON \rightarrow EVERY SUN \rightarrow 3 (next month) \rightarrow 2.....

To stop timer recording

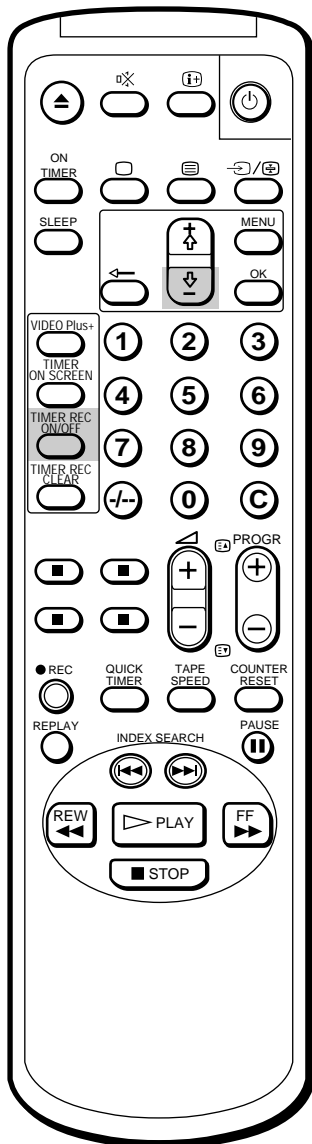
Press **TIMER REC ON/OFF**.
The **TIMER REC** lamp turns off.

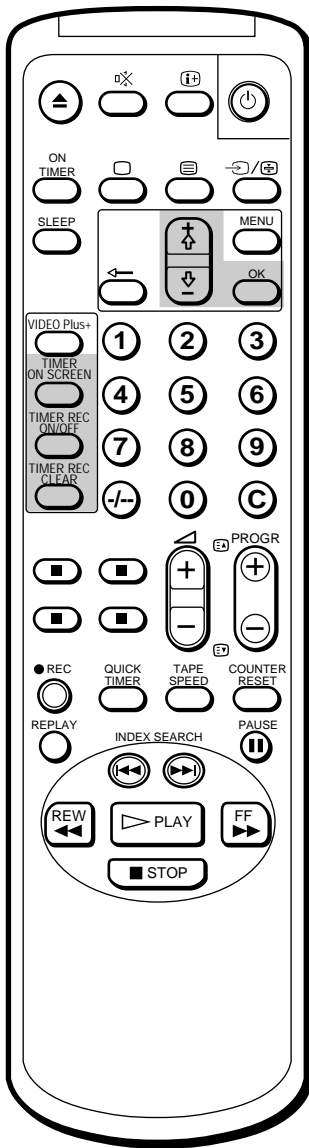
Using the video TV before timer recording starts

You can watch a TV programme, check the timer settings and reset the counter in timer recording standby mode. However, press **TIMER REC ON/OFF** to turn off the **TIMER REC** lamp on the front of the video TV to do the following operations:

- eject the cassette
- use the tape operation buttons
- change or cancel the timer settings

Remember to press **TIMER REC ON/OFF** again to make the **TIMER REC** lamp light after the above operations.





Checking the timer settings

You can display the list of the timer settings which you preset.

Press **TIMER ON SCREEN**.
The **PROGRAMME LIST** appears.

PROGRAMME LIST	20:00
PDC: OFF	4. 12THU
DATE	START STOP PRG
▶ 6 SAT	20:15 21:55 26 SP
7 SUN	8:30 10:15 50 SP
MON-SAT	23:00 0:00 21 SP
EVERYSUN	9:55 12:30 32 LP
---	---
---	---
---	---

Select \uparrow \downarrow and press **OK**

Press **TIMER ON SCREEN** again to erase the **PROGRAMME LIST**.

Changing or cancelling the timer settings

- 1 Press **TIMER REC ON/OFF** to turn off the **TIMER REC** lamp on the front of the video TV.
- 2 Press **TIMER ON SCREEN** to display the **PROGRAMME LIST**.
- 3 Select the setting you want to change or cancel with $+$ \uparrow or $-$ \downarrow .

PROGRAMME LIST	20:00
PDC: OFF	4. 12THU
DATE	START STOP PRG
▶ 6 SAT	20:15 21:55 26 SP
7 SUN	8:30 10:15 50 SP
MON-SAT	23:00 0:00 21 SP
EVERYSUN	9:55 12:30 32 LP
---	---
---	---
---	---

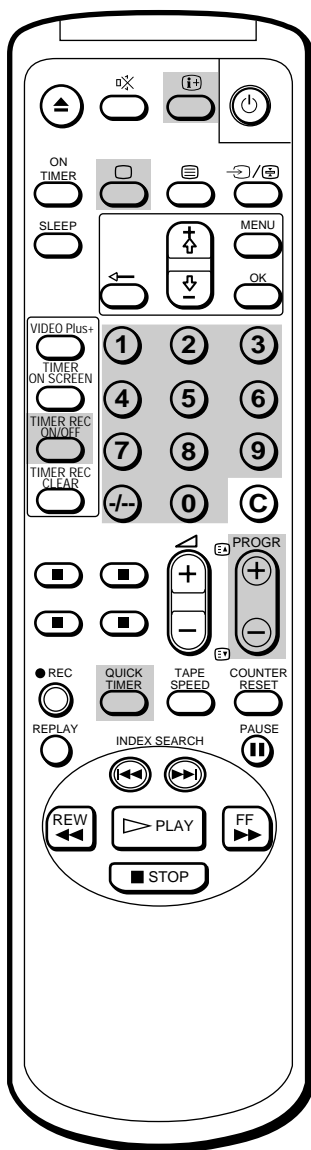
Select \uparrow \downarrow and press **OK**

- 4 **To change the setting**
Using $+$ \uparrow or $-$ \downarrow and **OK**, re-enter all the items.
Refer to "Setting the timer" steps 2 through 10 on pages 28 and 29.

To cancel the setting

Press **TIMER REC CLEAR**.

- 5 Press **TIMER ON SCREEN** to return to the original screen.
- 6 If there are other timer settings on the list, press **TIMER REC ON/OFF** to set the video TV to timer recording standby mode.



Recording using QUICK TIMER

You can preset your video TV to start timer recording immediately and to automatically stop recording after a specific time period.

If you have not set the clock, QUICK TIMER recording cannot be used.

If you are recording

- 1 Press QUICK TIMER on the remote control.
"QUICK TIMER 0:00" appears on the screen.
- 2 Press QUICK TIMER repeatedly to select the recording time period. With each press, the time period changes as follows:

0:00 → 0:30 → 1:00 → → 7:30 → 8:00

Even if you switch off the video TV, it continues recording. After the selected time period has elapsed, recording stops automatically.

If you are not recording

- 1 Press \square , PROGR +/- or number buttons on the remote control, or PROGR +/- on the video TV to switch it on.
- 2 Insert a cassette with its safety tab.
- 3 Select the programme position which you want to record.
- 4 Press QUICK TIMER on the remote control.
"QUICK TIMER 0:00" appears on the screen.
- 5 Press QUICK TIMER repeatedly to select the recording time period. With each press the time period changes as follows:

0:00 → 0:30 → 1:00 → → 7:30 → 8:00

The time period turns yellow and recording starts.

Even if you switch off the video TV, it continues recording.

When the preset time period has elapsed, the video TV stops recording.

To change the recording time period after QUICK TIMER recording begins

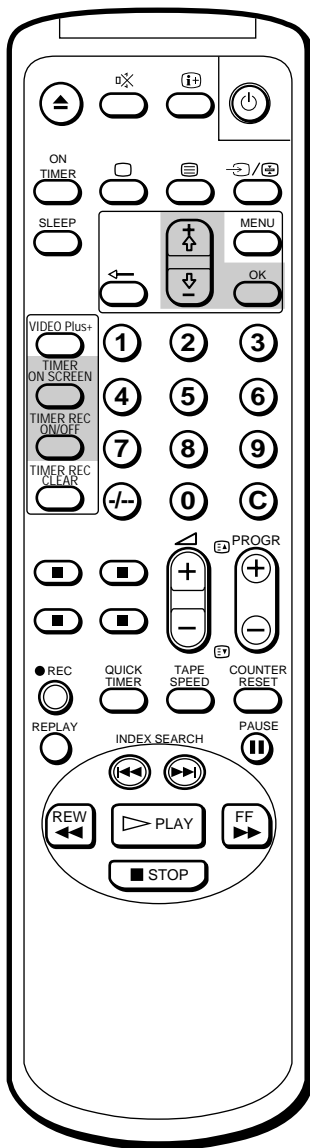
Press QUICK TIMER until the desired time period appears.

To display the remaining time period during QUICK TIMER recording

Press ⏏ . The recording time period decreases minute by minute.

To stop QUICK TIMER recording

Press TIMER REC ON/OFF.



Timer recording with PDC signals

The German broadcasting system transmits PDC (Programme Delivery Control) signals with the TV programmes. These signals assure you that your timer recordings are made regardless of broadcast delays, early starts, or broadcast interruptions. For example, if an urgent news bulletin interrupts a regular programme, recording stops. As soon as the interrupted programme resumes, recording starts again.

- 1 If the **TIMER REC** lamp is lit on the front panel, press **TIMER REC ON/OFF** to turn it off.
- 2 Press **TIMER ON SCREEN**.
The **PROGRAMME LIST** screen appears.

PROGRAMME LIST	20:00
PDC: OFF	4. 12THU
DATE	START STOP PRG
6 SAT	20:15 21:55 26 SP
7 SUN	8:30 10:15 50 SP
MON-SAT	23:00 0:00 21 SP
EVERYSUN	9:55 12:30 32 LP
--	--:-- --:-- --
--	--:-- --:-- --

Select \uparrow and press **OK**

- 3 Using the \uparrow or \downarrow buttons, select **PDC**, then press **OK**.
PDC will turn red.

PROGRAMME LIST	20:00
▶PDC: OFF	4. 12THU
DATE	START STOP PRG
6 SAT	20:15 21:55 26 SP
7 SUN	8:30 10:15 50 SP
MON-SAT	23:00 0:00 21 SP
EVERYSUN	9:55 12:30 32 LP
--	--:-- --:-- --
--	--:-- --:-- --

Select \uparrow and press **OK**

- 4 Using the \uparrow or \downarrow buttons, select **ON**, then press **OK**.

PROGRAMME LIST	20:00
PDC: ON	4. 12THU
DATE	START STOP PRG
6 SAT	20:15 21:55 26 SP
7 SUN	8:30 10:15 50 SP
MON-SAT	23:00 0:00 21 SP
EVERYSUN	9:55 12:30 32 LP
--	--:-- --:-- --
--	--:-- --:~ --

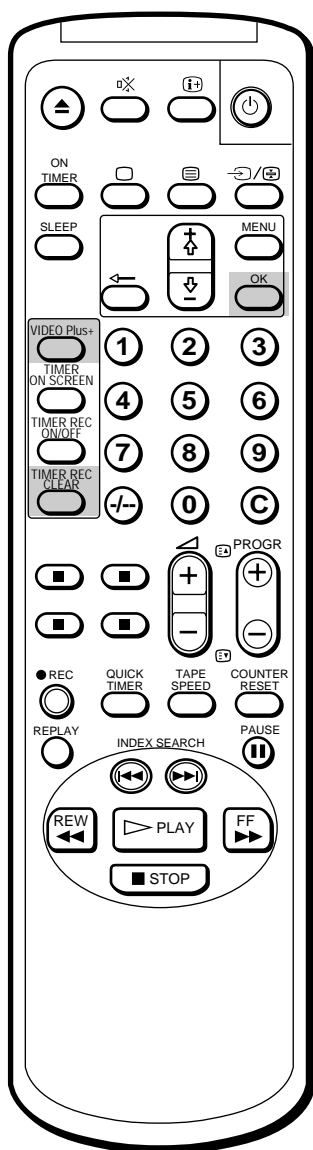
Select \uparrow and press **OK**

- 5 Set the timer following the steps in "Setting the timer" (pages 28 and 29).

Notes on PDC recording

- If recording times overlap due to a PDC time shift, the programme that was broadcast first has priority. Recording of the second programme begins when the first programme has finished.
- If the video TV could not receive a PDC signal because it was too weak or because the station failed to transmit PDC signals, timer recording is made without the PDC function.
- (KV-14V5U, KV-21V5U only)
If you use PDC recording while watching the TV, the programme automatically changes to the timer recording programme and you cannot change programmes. Make sure to use PDC recording only when the video TV is in standby mode. If you watch the TV continuously, cancel the PDC timer recording.

Recording TV Programmes Using VIDEO Plus+

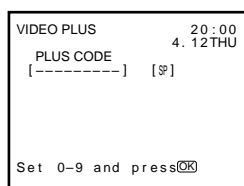


The VIDEO Plus+ function allows you to simplify the task of making timer recordings. Using VIDEO Plus+, you can make all the necessary settings by just entering the desired programme's 9-digit code, which is available in your local programme guide. To take advantage of this function, you must first set up your video TV and assign programme positions to the various guide channels. For details, see "Setting up VIDEO Plus+ manually" on page 14.

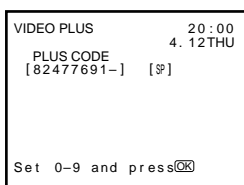
Before you begin

- Press \square , **PROGR +/-** or a number button on the remote control, or **PROGR +/-** on the video TV to switch on the video TV.
- Make sure that the time and date clock are set correctly. If not, refer to "Setting the clock" on page 16.
- Make sure that the loaded cassette has its safety tab.

- 1 Press **VIDEO Plus+**.
The **VIDEO PLUS** menu appears.



- 2 Press the number buttons to enter the desired programme's PlusCode.



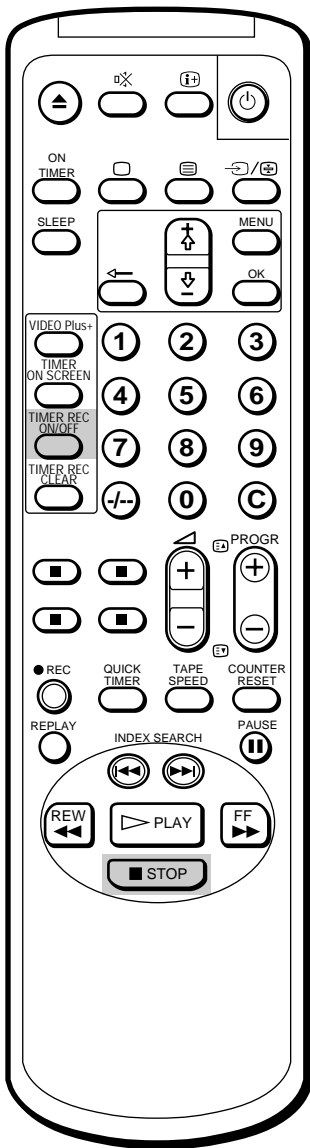
- 3 Press **OK**.
The recording information appears: date, start and stop times, programme position number.



If you have made a mistake entering programme's PlusCode

Press **TIMER REC CLEAR** and re-enter the correct number.

Check that the information is correct. If it is not, press **TIMER REC CLEAR** to cancel the setting.



4 Repeat steps 2 to 3 to preset another timer setting.

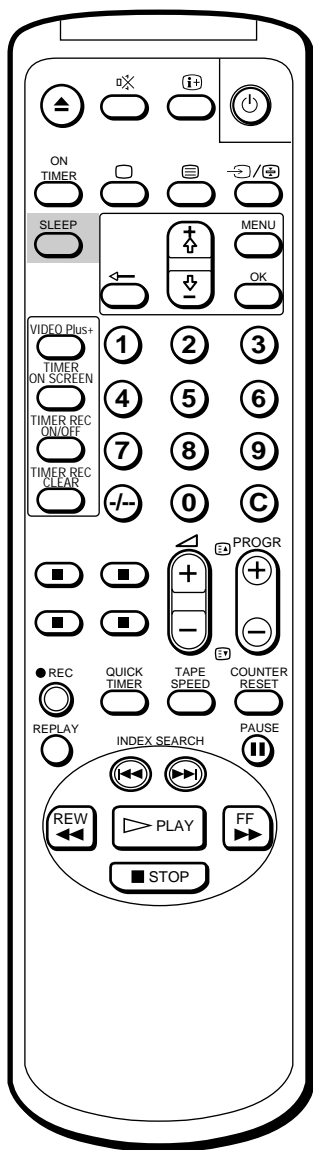
5 Press **TIMER REC ON/OFF**.

The **TIMER REC** lamp on the front of the video TV lights up and the video TV enters timer recording standby mode.

To stop recording

To stop the video TV while recording a programme, press **STOP** ■.

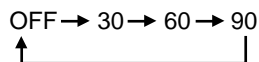
Switching Off Automatically — Sleep Timer



You can automatically switch the video TV into standby mode after a selected time period.

Press SLEEP.

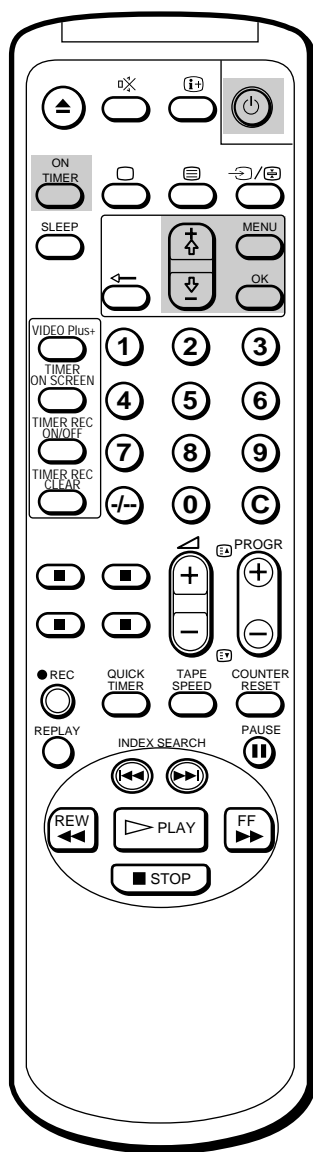
With each press, the time period (in minutes) changes as follows:



One minute before the TV switches into standby mode, a message “Good night” is displayed on the screen.

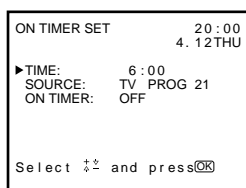
To cancel the timer
Press SLEEP to select “OFF”.

Switching On at Your Desired Time — On Timer

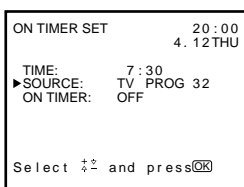


You can preset your video TV to automatically switch on at a desired time. You can choose either a TV programme or video playback to be switched on.

- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to “ON TIMER SET” with + ⬆ or - ⬇ and press OK. The ON TIMER SET menu appears.



- 3 Press OK. The timer setting hour section turns red.
- 4 Set the hour with + ⬆ or - ⬇ and press OK. The minute section turns red.
- 5 Set the minutes (by one minute) with + ⬆ or - ⬇ and press OK. The cursor appears beside “TIME.”
- 6 Move the cursor (▶) to “SOURCE” with + ⬆ or - ⬇ and press OK.
- 7 Select TV or VCR (video playback) with + ⬆ or - ⬇ and press OK. When you select TV, select the programme position with + ⬆ or - ⬇ and press OK.



To erase the message

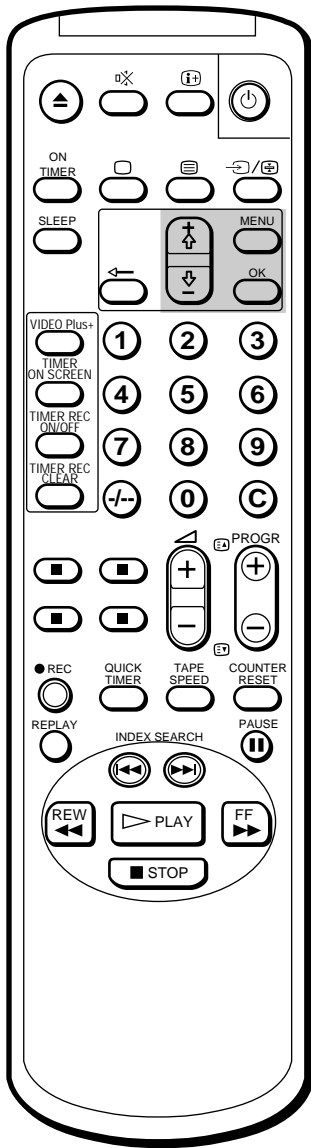
Press any button on the video TV or remote control.

- 8 Move the cursor (▶) to “ON TIMER” with + ⬆ or - ⬇ and press OK, then select ON with + ⬆ or - ⬇ and press OK.
- 9 Press MENU to return to the original screen.
- 10 Press ON TIMER. If you are not using the video TV, press ⏻ to set the video TV in standby mode.

At the preset time, the video TV automatically switches on.

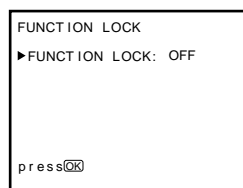
If you do not press any button for 2 hours, the video TV automatically shuts off.

Using FUNCTION LOCK

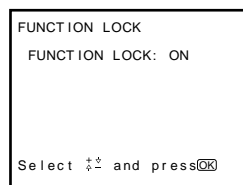


The FUNCTION LOCK feature prevents use of the buttons on the front of the video TV. You may want to use this feature to prevent small children from changing channels, viewing video tapes, etc.

- 1 Press MENU.
The main menu appears.
- 2 Using the + \updownarrow or - \updownarrow buttons, move the cursor (▶) to "FUNCTION LOCK," then press OK.
The FUNCTION LOCK menu appears.

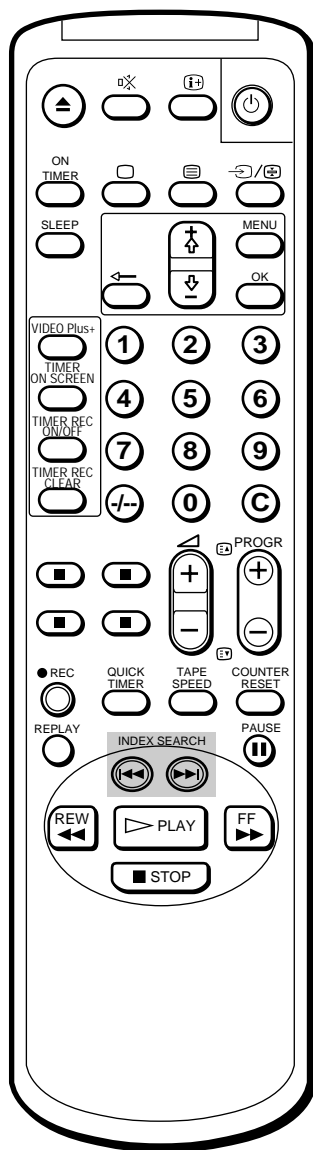


- 3 Press OK to start setting the FUNCTION LOCK.
The ON/OFF section turns red.
Using + \updownarrow or - \updownarrow buttons, select OFF or ON, then press OK.
OFF: Factory setting.
ON: The buttons on the video TV will no longer function (except the POWER button).



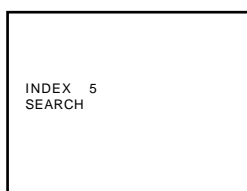
The remote control will still operate even if the FUNCTION LOCK is activated.

Searching Using the INDEX Function



The video TV marks the tape with an index signal at the point where each recording begins. These signals can be used to find a specific recording. Your video TV is capable of searching 99 signals forward or backward on a tape.

- 1 Insert the tape.
- 2 Press INDEX SEARCH \lll / \ggg repeatedly to specify how many index signals ahead or behind you want to search.

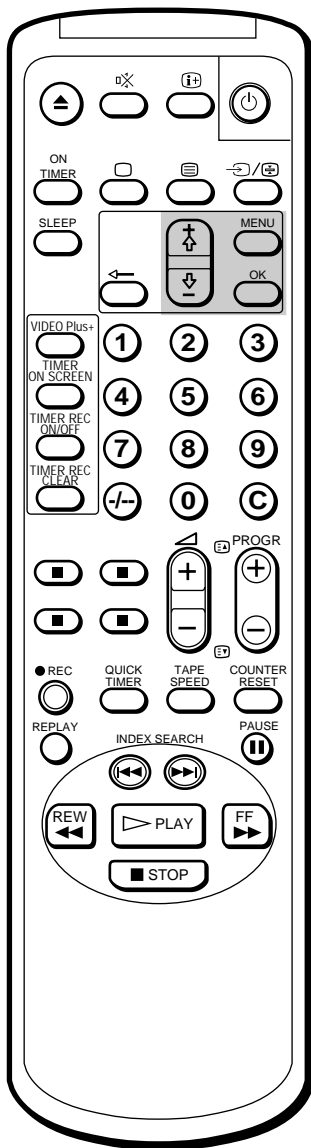


The video begins searching, and the index number will appear on the screen, counting down to zero. When zero is reached, playback begins automatically.

To stop searching

Press STOP ■.

Enhancing Video Picture Quality



To return to automatic tracking

Select AUTO in the TRACKING CONTROL menu with + \uparrow or - \downarrow and press OK.

Adjusting the tracking

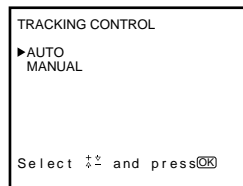
Adjusting the tracking automatically

The tracking condition is automatically adjusted on this video TV. The AUTO TRACKING indicator will appear while the video TV is searching for the best tracking condition.

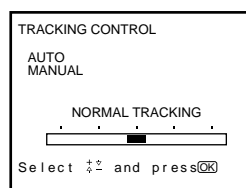
Adjusting the tracking manually

If streaks or snow noise appear on the video playback picture, adjust the tracking condition manually.

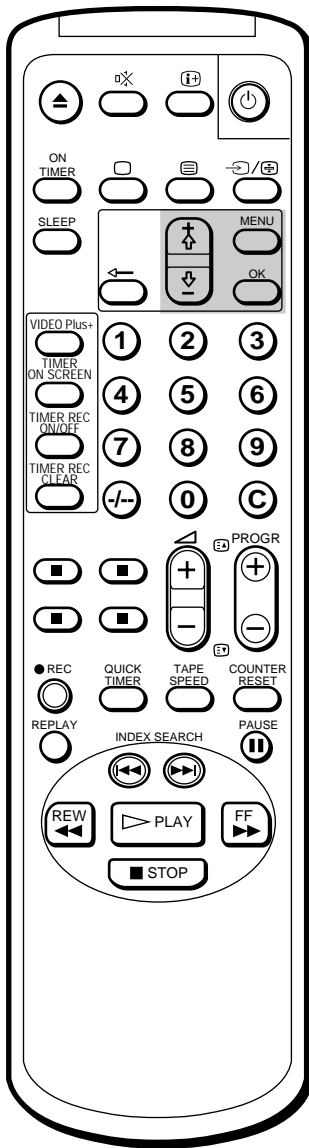
- 1 Press MENU to display the main menu.
- 2 Move the cursor (\blacktriangleright) to "TRACKING CONTROL" with + \uparrow or - \downarrow and press OK.
The TRACKING CONTROL menu appears.



- 3 Select MANUAL with + \uparrow or - \downarrow and press OK.
The tracking meter appears.



- 4 Using + \uparrow or - \downarrow , adjust the tracking to get the best picture.
- 5 Press OK.
The main menu reappears.
- 6 Press MENU to return to the original screen.



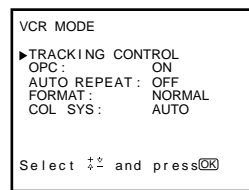
Adjusting with the optimum picture control (OPC)

This function allows you to improve playback and recording quality by adjusting the system parameter automatically according to the condition of the video tape.

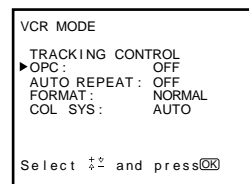
This function is set to ON at the factory. To maintain better picture quality, leave the function on. The OPC function works on all types of tapes, even on rental tapes.

To change the setting, use the menu display.

- 1 Press MENU to display the main menu.
- 2 Move the cursor (▶) to “VCR MODE” with + ⬆ or - ⬇ and press OK. The VCR MODE menu appears.



- 3 Move the cursor (▶) to “OPC” with + ⬆ or - ⬇ and press OK.
- 4 Select ON or OFF with + ⬆ or - ⬇ and press OK.



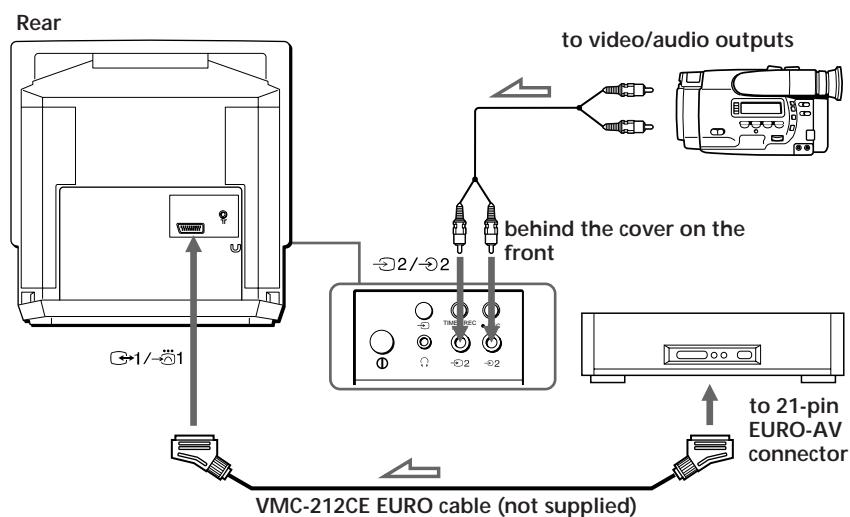
- 5 Press MENU to erase the main menu.

About the Auto Head Cleaner

The Auto Head Cleaner built into this set automatically cleans the video heads when a cassette is loaded or unloaded. If the effect of head cleaning is not sufficient even after a cassette has been loaded/unloaded several times, clean the heads using the Sony V-25CL video head cleaning cassette. For details on head cleaning see page 46.

Connecting Optional Equipment

Watching the picture input from optional equipment



To watch the video input signal

Press 2 repeatedly until the desired input indicator appears on the screen.

- 1 for audio/video input or RGB input through the $\text{1}/\text{2}$ 1 connector
- 2 for audio/RGB input through the $\text{1}/\text{2}$ 1 connector
- 2 for audio/video input through the $\text{2}/\text{2}$ 2 jacks located behind the cover on the front of the video TV

Note

When connecting optional equipment, such as videogames, please use the connecting cables recommended by the equipment's manufacturer.

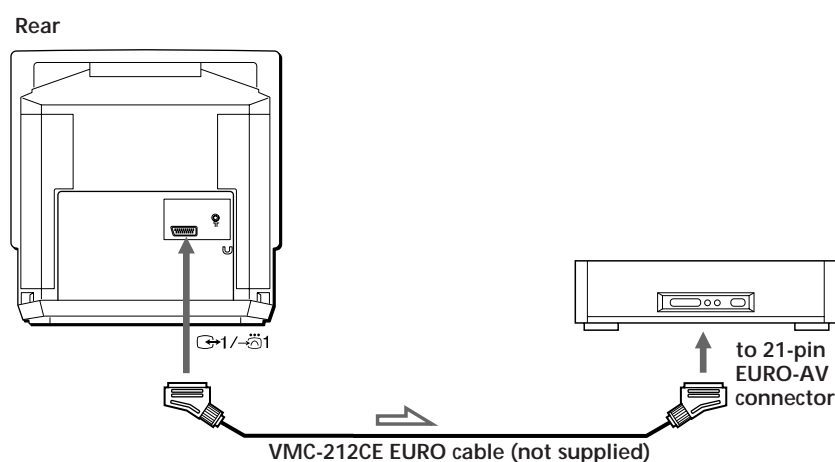
Editing with another VCR

Using an additional VCR, you can edit a tape.

Editing from another VCR

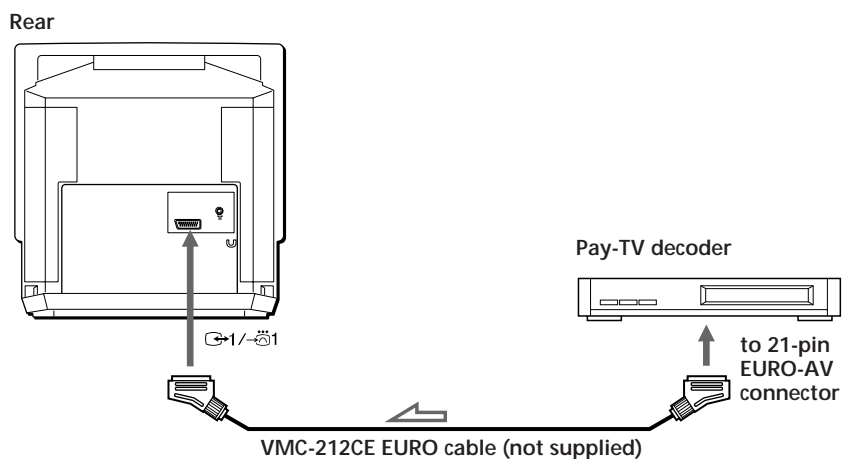
Connections are the same as in “Watching the picture input from optional equipment.”

Editing onto another VCR










Watching the pay-TV channel (KV-14V6U, KV-21V6U only)

You can connect the pay-TV decoder to the 1/2 connector using VMC-212CE EURO cable. Set the Pay-TV decoder following the steps in “Setting a Pay-TV channel” (page 13).



Troubleshooting

Function	Problems	Possible causes and remedies
TV reception	No picture (screen is dark), no sound	<ul style="list-style-type: none"> The mains lead is disconnected. ➔ Connect the mains lead. The video TV is switched off. ➔ Press , PROGR +/- or programme number on the remote control, or PROGR +/- on the video TV.
	Good picture but no sound	<ul style="list-style-type: none"> The headphones are connected to the  jack. ➔ Disconnect the headphones. The  is displayed on the screen. ➔ Press . Press  +/-.
	No colour or poor colour (screen is dark) for colour programmes, but good sound.	<ul style="list-style-type: none"> Adjust "CONTRAST," "COLOUR," and "BRIGHTNESS" in the PICTURE CONTROL menu. (page 18)
	No picture, no sound from video input source	<ul style="list-style-type: none"> The connecting cord between the video TV and the input source is disconnected. ➔ Connect it firmly. Input is not selected correctly. ➔ Press  until the desired input indicator appears. (page 42)
Clock and timer	The clock has stopped and "--/--" is displayed.	<ul style="list-style-type: none"> The power has been interrupted, the  (MAIN POWER) switch is turned off or the mains lead is disconnected for more than a week. ➔ Re-set the clock and timer settings if necessary. (pages 16, 28, 34)
Playback	Power is on, but the tape does not run.	<ul style="list-style-type: none"> The safety device has been activated. ➔ Switch off, disconnect the mains lead, and leave the set for about one minute.
	Poor playback picture	<ul style="list-style-type: none"> The COL SYS setting in the VCR MODE menu is not correct. ➔ Set COL SYS to the system that the tape was recorded in. (page 25) Adjust the tracking. (page 40) The video heads are dirty. ➔ Clean the heads using the Sony V-25CL video head cleaning tape (page 46). If the cleaning tape is not available in your area, have the heads cleaned at your nearest Sony service facility. (Do not use a commercially available wet-type cleaning tape, as it may damage the video heads.) The tape is worn out. ➔ Use a new tape.
	The sound drops out.	<ul style="list-style-type: none"> The tape is defective. ➔ Use a new tape.

Function	Problems	Possible causes and remedies
Recording	The cassette is ejected when you press REC ●.	<ul style="list-style-type: none"> • The safety tab of the cassette has been removed. <ul style="list-style-type: none"> ➔ Cover the tab hole with adhesive tape, or use another cassette with a safety tab. (page 22)
	Recording does not function.	<ul style="list-style-type: none"> • No cassette has been inserted. <ul style="list-style-type: none"> ➔ Insert a cassette with the safety tab. • The tape is at its end. <ul style="list-style-type: none"> ➔ Rewind the tape.
	Pay-TV programme was not recorded.	<ul style="list-style-type: none"> • The Pay-TV channel was not set properly. <ul style="list-style-type: none"> ➔ Check the setting steps. (page 13)
	You cannot view one programme while recording another.	<ul style="list-style-type: none"> • Verify your model number. <ul style="list-style-type: none"> ➔ Only models KV-14V6U and KV-21V6U are able to play one programme while recording another.
Timer recording	Timer settings cannot be made.	<ul style="list-style-type: none"> • The clock has not been set. <ul style="list-style-type: none"> ➔ Set the current time and date. (page 16) • You made a mistake when setting the timer. <ul style="list-style-type: none"> ➔ Check the setting steps. (pages 28 and 29)
	The cassette is ejected when you press TIMER REC ON/OFF.	<ul style="list-style-type: none"> • The safety tab of the cassette has been removed. <ul style="list-style-type: none"> ➔ Cover the tab hole with adhesive tape, or use another cassette with a safety tab.
	The TIMER REC lamp does not light up even though you press TIMER REC ON/OFF.	<ul style="list-style-type: none"> • No cassette has been inserted. <ul style="list-style-type: none"> ➔ Insert a cassette with its safety tab. • The tape is at its end. <ul style="list-style-type: none"> ➔ Rewind the tape. • No setting is made for timer recording. <ul style="list-style-type: none"> ➔ Set the programme for timer recording. (pages 28 and 29)
	Timer recording was not made.	<ul style="list-style-type: none"> • You did not press TIMER REC ON/OFF. • There has been a power interruption lasting more than a week.
Others	A cassette cannot be inserted.	<ul style="list-style-type: none"> • Another cassette is already inserted. <ul style="list-style-type: none"> ➔ Press ▲ to eject the cassette.
	The remote control does not work.	<ul style="list-style-type: none"> • The batteries are low. <ul style="list-style-type: none"> ➔ Replace the batteries. (page 4) • The batteries are installed incorrectly. <ul style="list-style-type: none"> ➔ Install the batteries with correct polarities. (page 4)

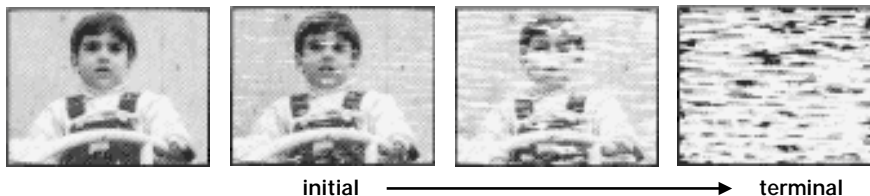
Taking Care of Your Video TV

Video head cleaning

When playback pictures are noisy and hardly visible, or when no picture appears, the video heads may be contaminated. In such a case, clean the video heads using the V-25CL video head cleaning tape (not supplied), or ask Sony service personnel to clean the video heads.

Symptoms caused by contaminated video heads

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



Worn video heads

If your video TV displays a poor picture after you clean the video heads, you may need to replace them. Consult your dealer or the Sony Service Center nearest you.

Check the video heads after 1,000 hours of use

A video TV is a high precision machine. It must record on or play from magnetic tapes on which the image signals from the colour TV or the video camcorder are recorded.

The video heads or mechanical parts for transporting the tape are contaminated or worn after extended use. You should have your video TV checked after each 1,000 hours of use.

Note

Do not use a commercially available wet-type cleaning tape, as it may damage the video heads.

Specifications

TV Section

Television system	I
Colour system	PAL NTSC _{3.58} /NTSC _{4.43} (video input only)
Channel coverage	See "Television channel number guide" on the next page.
Picture tube	KV-14V5U, KV-14V6U Black Trinitron KV-21V5U, KV-21V6U HiBlack Trinitron
Aerial in	75-ohm aerial socket for VHF/ UHF

Video Section

Format	VHS standard
Video recording system	Rotary 2-head helical scanning system
Audio recording system	Monaural
Video signal	PAL
Tape speed	PAL SP: 23.39 mm/sec. LP: 11.70 mm/sec. NTSC (playback only) SP: 33.35 mm/sec. EP: 11.12 mm/sec.
Maximum recording time	SP: 4 hours with E-240 LP: 8 hours with E-240

Inputs and Outputs

Inputs	LINE IN VIDEO: phono jack (1) 1 Vp-p, 75 ohms, unbalanced, sync negative LINE IN AUDIO: phono jack (1) Input level: 500 mVrms (100% modulation) EURO-AV: 21-pin
Output	EURO-AV: 21-pin
Headphones jack	Monaural minijack

General

Clock	Quartz locked
Clock back up	Approx. 7 days
Power requirements	220-240 V AC, 50 Hz
Power consumption	KV-14V5U: 71 W KV-14V6U: 77 W KV-21V5U: 102 W KV-21V6U: 108 W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	KV-14V5U, KV-14V6U Approx. 397 × 409 × 426 mm (w/h/d) (15 ³ / ₄ × 16 ¹ / ₈ × 16 ⁷ / ₈ inches) KV-21V5U, KV-21V6U Approx. 526 × 518 × 476 mm (w/h/d) (20 ³ / ₄ × 20 ¹ / ₂ × 18 ³ / ₄ inches)
Mass	KV-14V5U, KV-14V6U Approx. 14 kg (30 lbs. 14 oz) KV-21V5U, KV-21V6U Approx. 24 kg (52 lbs. 15 oz)

Accessories supplied

Remote control (1)
R6 (size AA) batteries (2)
Loop aerial (1) (KV-14V5U, KV-14V6U only)

Design and specifications are subject to change without notice.

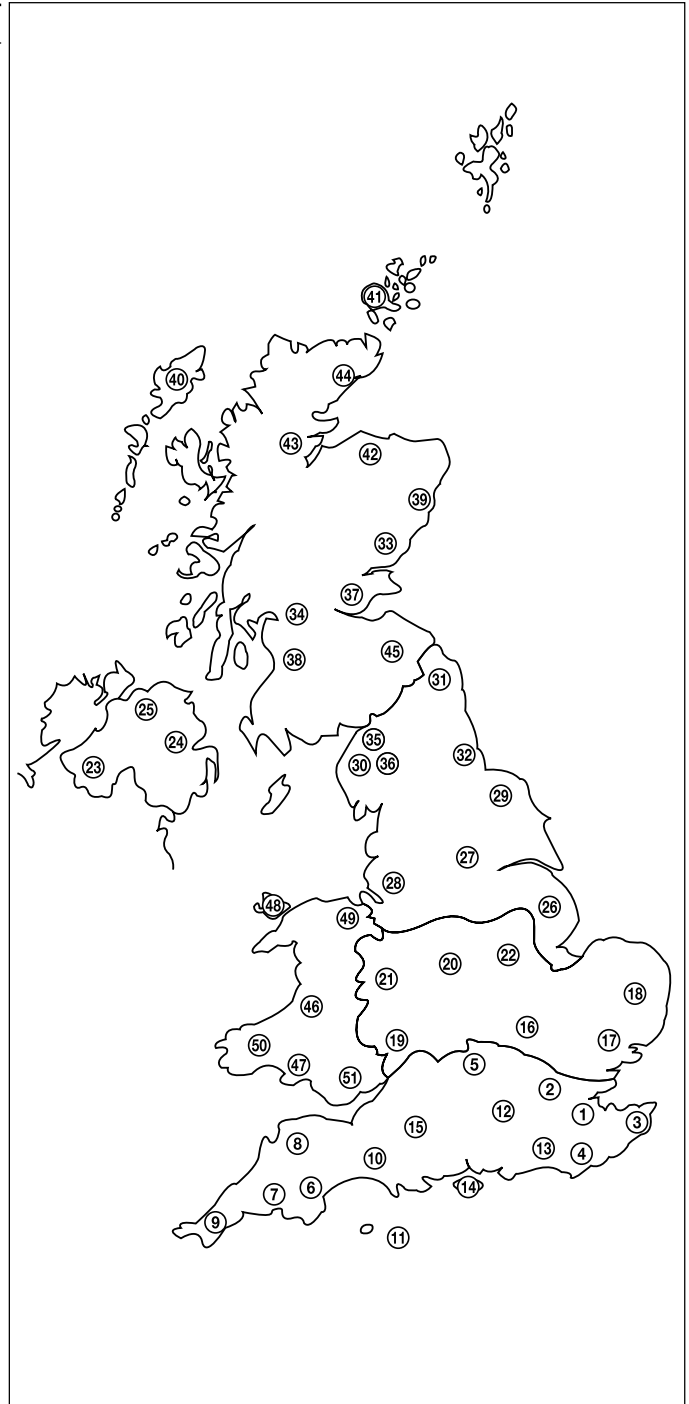
Note

This appliance conforms with the EU Directive 89/336/EEC regarding interference suppression.

Television Channel Number Guide

Only the main transmitters are listed. Information regarding the regional sub-relay channel numbers can be obtained by contacting The BBC Engineering Information Dept. (0181) 752 5040.

MAIN TRANSMITTERS	BBC1	BBC2	ITV	CH4
London & South East				
① Bluebell Hill	40	46	43	65
② Crystal Palace	26	33	23	30
③ Dover	50	56	66	53
④ Heathfield	49	52	64	67
⑤ Oxford	57	63	60	53
South-West				
⑥ Beacon Hill	57	63	60	53
⑦ Caradon Hill	22	28	25	32
⑧ Huntshaw Cross	55	62	59	65
⑨ Redruth	51	44	41	47
⑩ Stockland Hill	33	26	23	29
Channel Islands				
⑪ Fremont Point	51	44	41	47
South				
⑫ Hannington	39	45	42	66
⑬ Midhurst	61	55	58	68
⑭ Rowridge	31	24	27	21
West				
⑮ Mendip	58	64	61	54
East				
⑯ Sandy Heath	31	27	24	21
⑰ Sudbury	51	44	41	47
⑱ Tacolneston	62	55	59	65
Midlands (West)				
⑲ Ridge Hill	22	28	25	32
⑳ Sutton Coldfiled	46	40	43	50
㉑ The Wrekin	26	33	23	29
Midlands (East)				
㉒ Waltham	58	64	61	54
Northern Ireland				
㉓ Brougher Mountain	22	28	25	32
㉔ Divis	31	27	24	21
㉕ Limavady	55	62	59	65
North				
㉖ Belmont	22	28	25	32
㉗ Emley Moor	44	51	47	41
North-West				
㉘ Winter Hill	55	62	59	65
North-East				
㉙ Bilsdale West Moor	33	26	29	23
㉚ Caldbeck	30	34	28	32
㉛ Chatton	39	45	49	42
㉜ Pontop Pike	56	64	61	54
Scotland				
㉝ Angus	57	63	60	53
㉞ Black Hill	40	46	43	50
㉟ Sandale	22	67	-	-
㊱ Caldbeck	-	-	28	32
㊲ Craigkelly	31	27	24	21
㊳ Darvel	33	26	23	29
㊴ Durris	22	28	25	32
㊵ Eitshal (Lewis)	33	26	23	29
㊶ Keelylang Hill	40	46	43	50
㊷ Knock More	33	26	23	29
㊸ Rosemalkie	39	45	49	42
㊹ Rumster Forest	31	27	24	21
㊺ Selkirk	55	62	59	65
Wales				
㊻ Blaenplwyf	31	27	24	21
㊼ Carmel	57	63	60	53
㊽ Llanddona	57	63	60	53
㊾ Moel-y-Parc	52	45	49	42
㊿ Presely	46	40	43	50
① Wenvoe	44	51	41	47

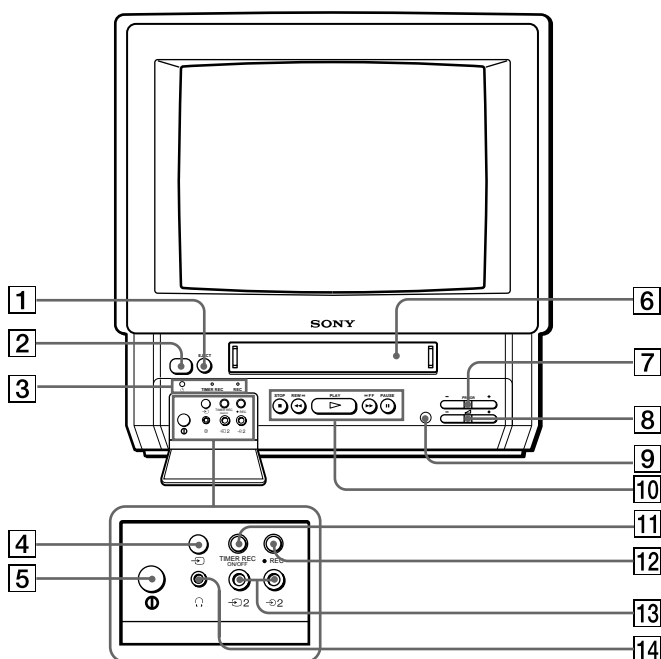


Index to Parts and Controls

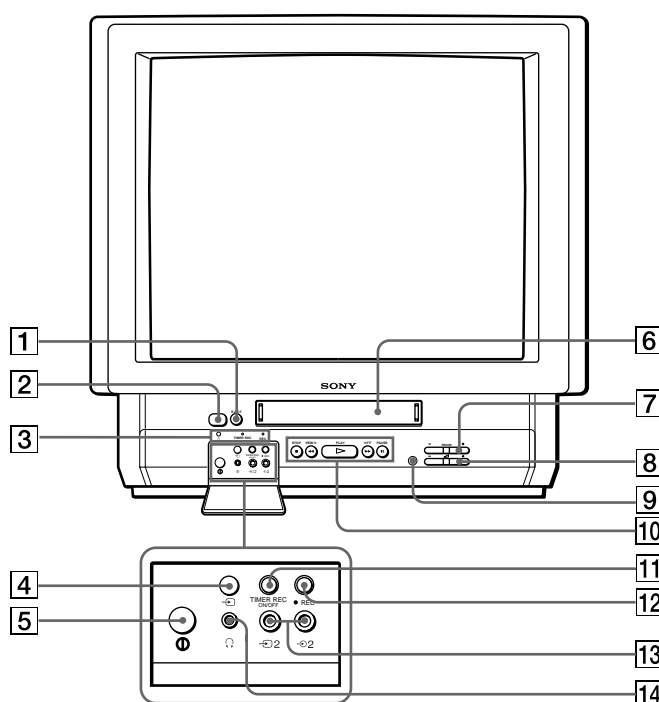
Video TV set—front

This section briefly describes the buttons and controls on the video TV set and on the remote control. For more information, refer to the pages next to each description.


KV-14V5U, KV-14V6U




KV-21V5U, KV-21V6U



1 EJECT  button (page 22)


2  (standby) button (page 17)


3 Lamps

 (standby) (page 17)

TIMER REC (recording) (page 29)


REC (recording) (page 27)

4  (input select) button (pages 19, 42)

5  (MAIN POWER) switch (pages 6, 17)

6 Cassette compartment (page 22)


7 PROGR (programme) +/- buttons (pages 17, 27)


8  (volume) +/- buttons (page 17)

9 Remote sensor

10 Tape transport buttons (page 23)

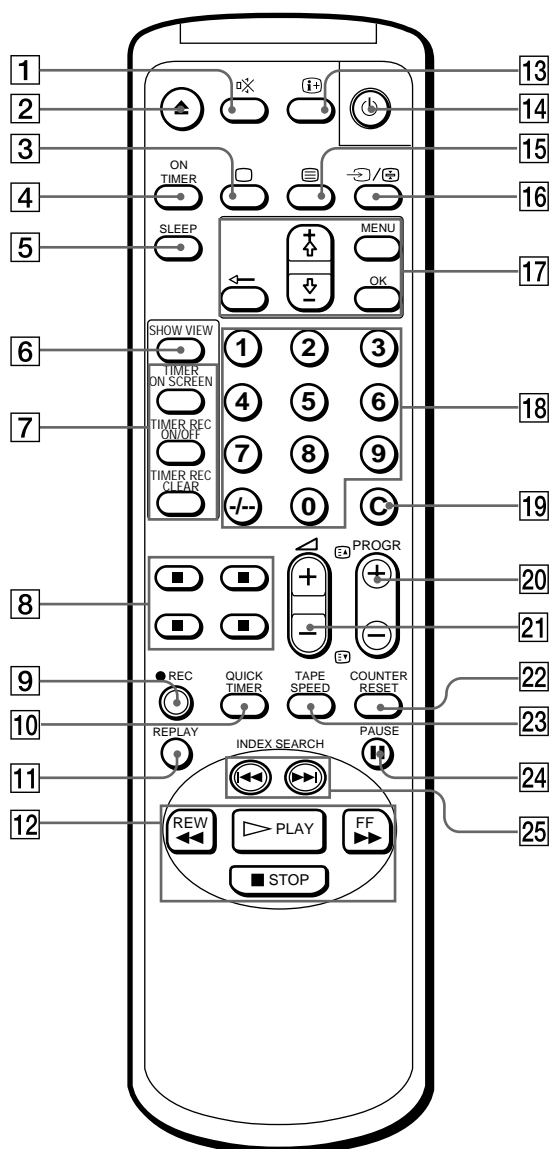
11 TIMER REC ON/OFF button (pages 29, 30)

12 REC (recording)  button (page 27)

13 2/2 (video/audio input) jacks (page 42)

14  (headphones) jack (page 19)

Remote control



- 1 ☒ (muting) button (page 19)
- 2 ▲ (eject)button (page 22)
- 3 □ (TV power on) button (pages 6, 17)
- 4 ON TIMER button (page 37)
- 5 SLEEP button (page 36)
- 6 VIDEO Plus+ button (page 34)
- 7 TIMER REC buttons
 - TIMER ON SCREEN (pages 28, 31)
 - ON/OFF (pages 29, 30)
 - CLEAR (pages 31, 34)
- 8 Teletext operation buttons (page 20)
- 9 REC (recording) ● button (page 27)
- 10 QUICK TIMER button (page 32)
- 11 REPLAY button (page 24)
- 12 Tape transport buttons (page 23)
 - PLAY ▷, STOP ■, REW (rewind) ◀◀, FF (fast forward) ▶▶
- 13 ⓘ (on-screen display) button (pages 19, 25)
- 14 ⏻ (standby) button (page 17)
- 15 ☒ (Teletext) button (page 20)
- 16 ↵ (input select)/Ⓜ (hold) button (pages 19, 21, 42)
- 17 Menu operation buttons (pages 6, 7)
 - MENU
 - + ⬆ / - ⬇
 - ←
 - OK
- 18 Number buttons (pages 17, 27, 34)
- 19 C (direct tuning) button (page 12)
- 20 PROGR (programme) +/-/Ⓜ/Ⓜ (Teletext page access) buttons (pages 17, 21, 27)
- 21 🔊 (volume) +/- buttons (page 17)
- 22 COUNTER RESET button (page 23)
- 23 TAPE SPEED button (page 27)
- 24 PAUSE || button (pages 23, 27)
- 25 INDEX SEARCH ◀◀/▶▶ buttons (page 39)

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