

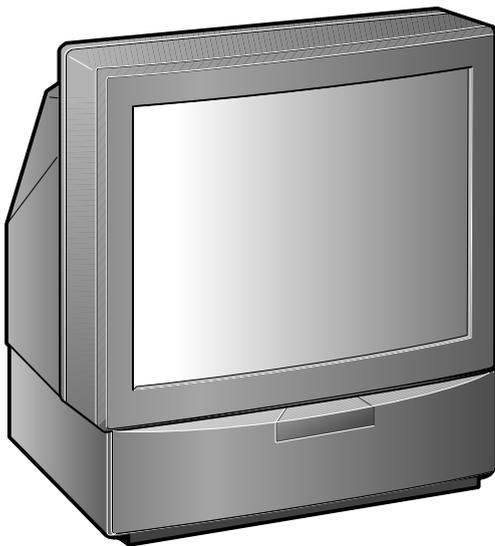
*Getting Started*

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*Operating Instructions*

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# KP-41S4U



## *Projection TV*

## 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.

## Safety Information

All TVs operate on extremely high voltages. To prevent fire or electric shock, please follow the safety procedures below. For your protection, refer all servicing to qualified personnel only.

### For general safety:

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

### For safe operations:

- Do not operate the TV on any other voltages, but 220–240 V AC.
- Do not operate the TV if any liquid or solid object falls in it - have it checked immediately.
- Do not keep the set plugged in if you are not going to use it for several days.
- Do not pull on the power cord to disconnect the TV. Pull it out by the plug.
- Do not place anything on the surface of the front panel cover when you open it.

## Important Information

Please read the following information on using and maintaining the TV, for optimum viewing quality.

### Picture Quality

- Poor colour registration (the red, green and blue signals do not overlap properly) may be caused by the influence of the earth's magnetism. Correct this with the convergence adjustment.
- Avoid touching the screen, and take care not to scratch the surface with hard objects.
- Displaying a still picture for long periods of time, for instance, when operating a video game or personal computer and viewing a programme in 16:9 mode, may damage the picture tube. To avoid this, keep the picture contrast level low.

### Illumination

To obtain a clear picture, do not expose the screen to direct illumination or direct sunlight. If possible, use spot lighting directed down from the ceiling.

### Installation

- To prevent over heating of the set, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to direct sunlight, excessive dust or mechanical vibration.
- After transporting the TV directly from a cold to a warm location, or if the room temperature has changed suddenly, pictures may be blurred or show poor colour over portions of the picture. This is because moisture has condensed on the mirrors or lenses inside the TV. Let the moisture evaporate before using the TV.

### Maintenance

- Save the original shipping carton and packing material to use if you ever have to ship your TV. For maximum protection, repack your TV as it was originally packed at the factory.

- To keep the cabinet looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzene, or abrasive cleaners since these will damage the cabinet. As a safety precaution, unplug the TV before cleaning it.
- To remove dust from the front of the screen, unplug the TV and wipe gently with a soft cloth lightly dampened with water or a mild detergent solution, using vertical strokes only. Then wipe it with a dry, soft cloth. Never use solvents or thinners for cleaning purposes.
- If the picture turns dark after the TV has been in use for a long period of time, it may be necessary to clean the inside of the TV. Consult qualified service personnel for this.

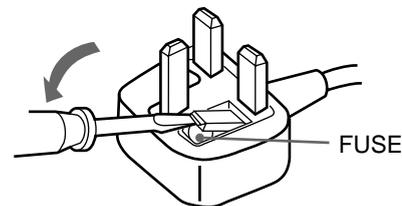
## NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

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.



### 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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Getting Started

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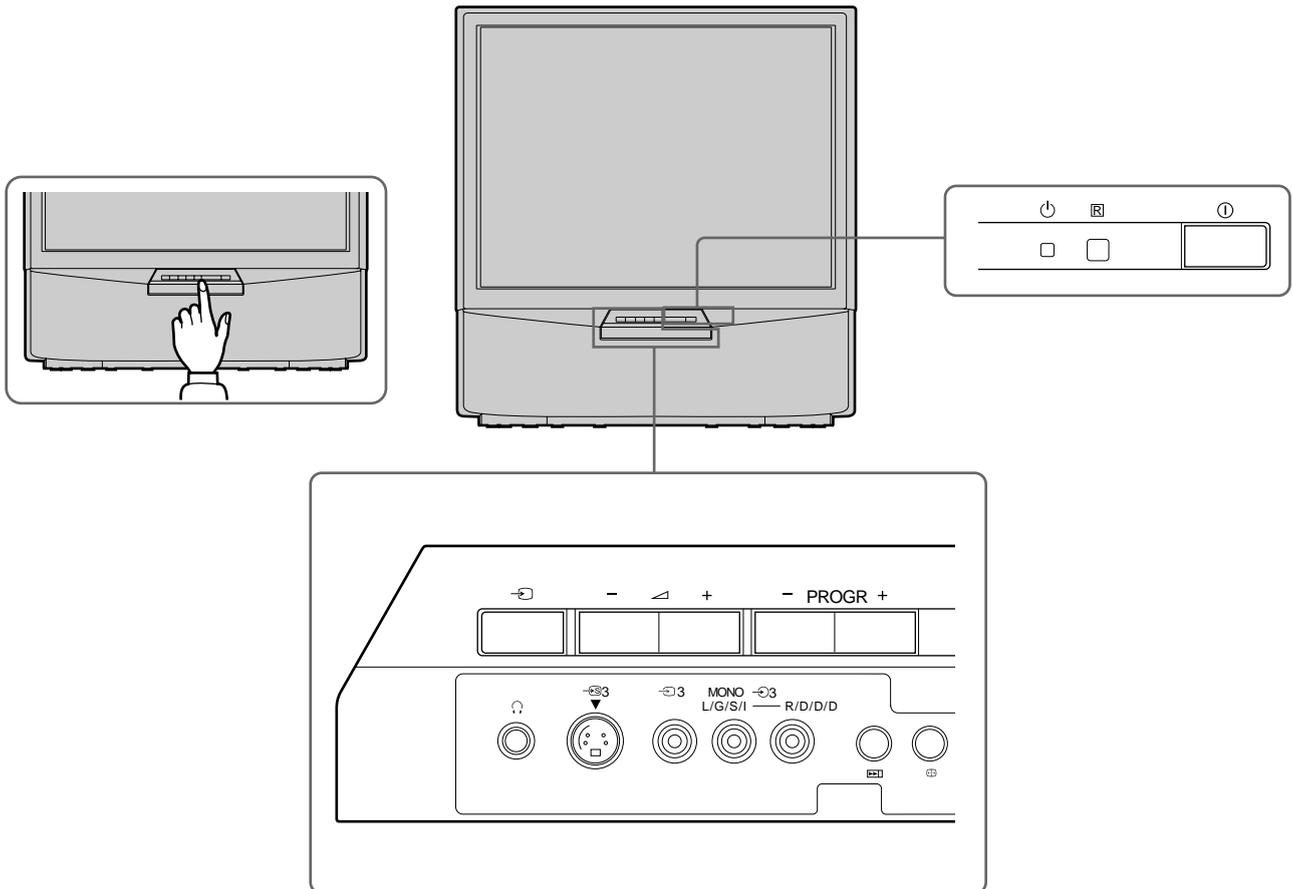
Operating Instructions

GB

# Overview

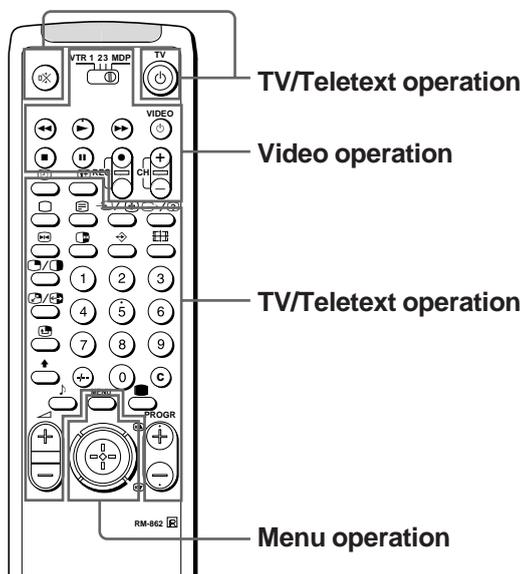
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

## TV set-front



Symbol	Name	Refer to page
⓪	Main power switch	14
⏻	Standby indicator	14
PROGR +/-	Programme buttons	14
⏪ +/-	Volume buttons	14
⏩	Input select buttons	15
🎧	Headphones jack	20
Ⓜ 3, Ⓜ 3, Ⓜ 3	Input jacks (S video/video/audio)	21
▶▶	Auto Preset button	8
Ⓜ	Auto Convergence button	9

## Remote commander



## Menu operation

Symbol	Name	Refer to page
MENU	Menu on/off button	See below.
	Joystick for Menu selection	See below.
	Press to confirm selection (OK function)	

## Video operation

Symbol	Name	Refer to page
VTR1/2/3, MDP	Video equipment selector	23
	Video equipment operation	23
	VIDEO buttons	
CH +/-	Channel up/down	

## No function on this set

Symbol : (for TV operation)

## TV/Teletext operation

Symbol	Name	Refer to page
	Mute on/off button	15
TV	TV Standby button	14
	TV power on/TV mode selector button	14
	Teletext button	15
	Input mode selector/	15
	Teletext: Freezing the subpage	18
	Teletext: Reveal button	18
1,2,3,4,5,6, 7,8,9 and 0	Number buttons	14
	Double-digit entering button	14
	Direct channel entering button	13
	Volume control button	14
PROGR +/-	Programme selectors	14
	Teletext: Page up/page down buttons	18
	Picture adjustment button	16
	Sound adjustment button	16
	On-screen display button	15
	Time display button	15
	Button to change Screen Format	15
	Teletext: Favourite pages button	19

## For the Menu System

Use the MENU button and the joystick as follows.

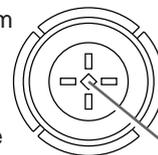
1 Press MENU button to switch menu on or off.



2 Use the joystick as follows:

GREEN: scroll up

RED: decrease/back to last item or to last menu  
When menu is not displayed: Push to red to display the last menu screen



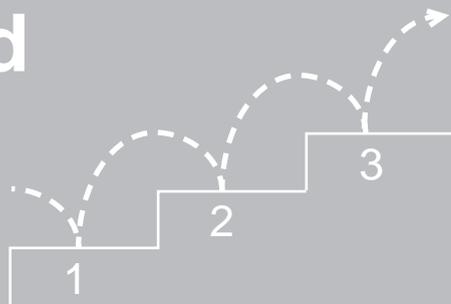
YELLOW: increase/forward to next item

BLUE: scroll down

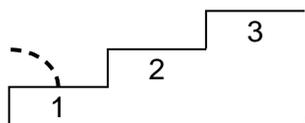
Joystick: Press at its neutral position to confirm selection or store

The operable functions of the joystick are displayed on the screen.

# Getting Started



## Step 1 Preparation

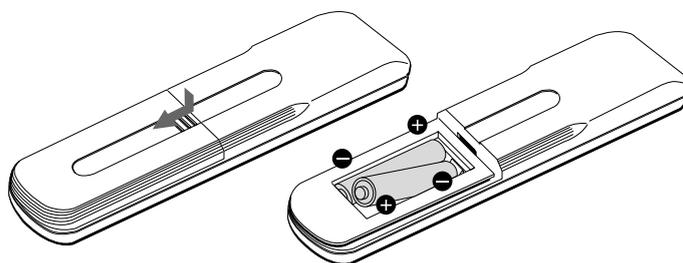


### 1 Check the Supplied Accessories

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

- RM-862 Remote Commander
- Two IEC designation R6 batteries
- Wrench (1)
- Bracket (2)

### 2 Insert the Batteries into the Remote Commander

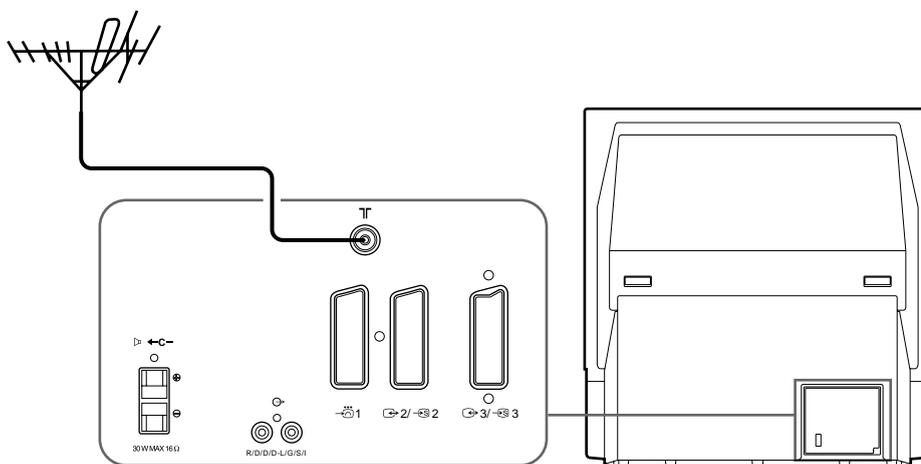


Remove the cover.

Check the correct polarities.

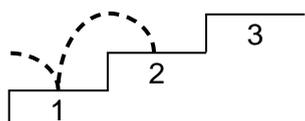
**Note:** Always remember to dispose of used batteries in an environmentally friendly way.

### 3 Connect the Aerial



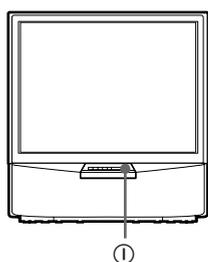
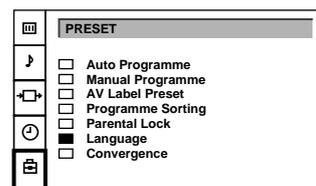
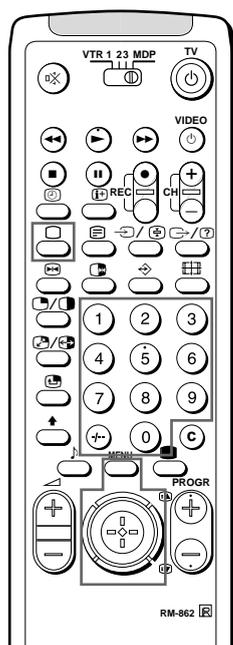
Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the T socket at the rear of the TV.

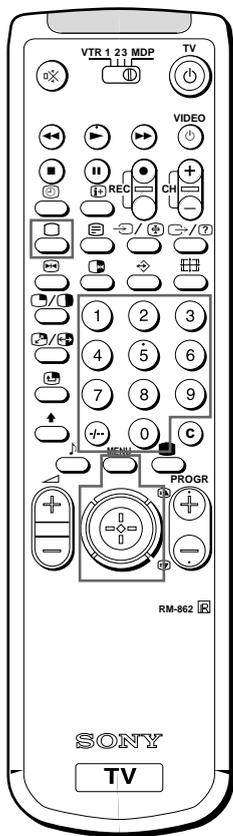
# Step 2 Tuning in to TV Stations



## 1 Choose a Language

- 1 Depress ① (main power switch) on the TV.  
The TV will switch on. If the standby indicator on the TV is lit, press  or a number button on the Remote Commander.
- 2 Press MENU.
- 3 Push the joystick to blue or green to select the symbol , then push to yellow.  
The PRESET menu appears.
- 4 Push the joystick to blue or green to select "Language", then push to yellow.
- 5 Push the joystick to blue or green to select the language you want, then push to yellow.
- 6 Press MENU to restore the normal TV picture.





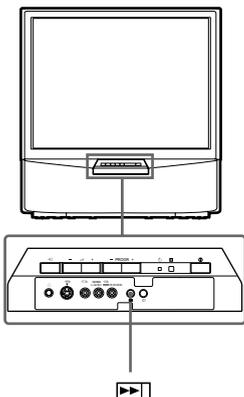
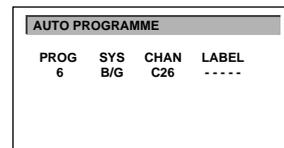
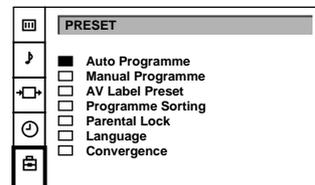
## 2 Preset Channels Automatically

With this function, the TV automatically searches and stores up to 100 channels onto programme positions. If you prefer "Presetting Channels Manually", please refer to page 10 in Additional Presetting Functions.

- 1 Depress (main power switch) on the TV.  
The TV will switch on. If the standby indicator on the TV is lit, press or a number button on the Remote Commander.
- 2 Press and hold the on the TV until the automatic menu is displayed and the search starts.  
After all available channels are stored, the normal TV picture is shown.

### Presetting channels automatically by using the Remote Commander

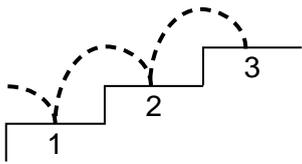
- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol , then push to yellow.  
The PRESET menu appears.
- 3 Push the joystick to blue or green to select "Auto Programme".
- 4 Push to yellow and hold until the AUTO PROGRAMME menu is displayed and the search starts.  
After all available channels have been preset, the normal TV picture is shown.



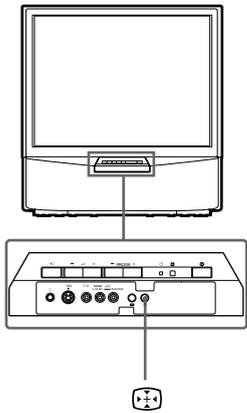
#### Note

You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 11.

# Step 3 Adjusting Colour Registration (CONVERGENCE)



## Converge the Red, Green, and Blue Lines

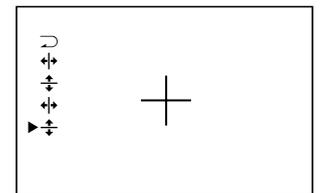
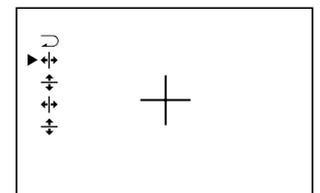
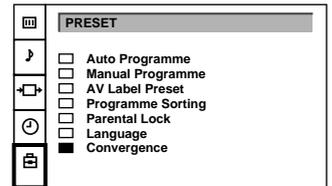
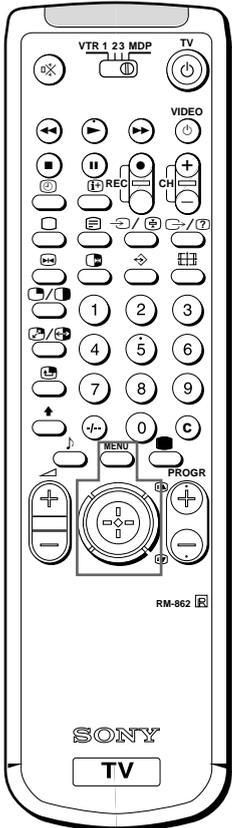
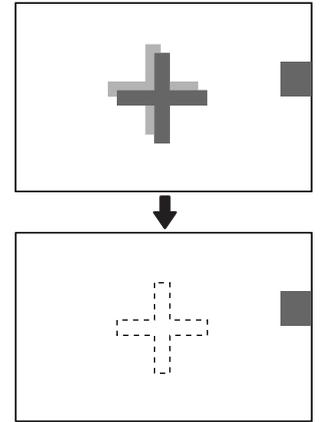


- 1 Press button on the TV.
- 2 The Auto Convergence function works for about 30 seconds.

### When the auto convergence function does not work correctly

Adjust the colour registration by selecting the "Convergence" of the PRESET menu.

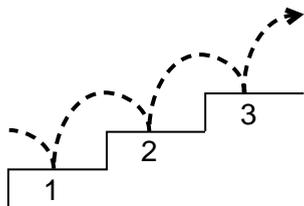
- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol , then push to yellow. The PRESET menu appears.
- 3 Push the joystick to blue or green to select "Convergence", then push to yellow. The CONVERGENCE menu appears.
- 4 Push the joystick to blue or green to select "the line" (vertical and horizontal lines in red and blue) you want to adjust. Press the joystick to confirm.
  - : red vertical line (left/right adjustment)
  - : red horizontal line (up/down adjustment)
  - : blue vertical line (left/right adjustment)
  - : blue horizontal line (up/down adjustment)
 The line to adjust is selected.
- 5 Push the joystick to blue or green to converge the selected line with the green line in the centre. Press the joystick to confirm.
- 6 Repeat steps 4 and 5 to adjust the other lines, until all the lines have overlapped to form a white cross.
- 7 Press MENU to restore the normal TV picture.



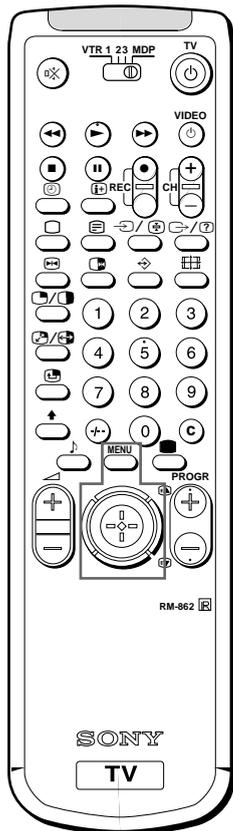
### Note

- The Auto Convergence function does not work:
- when no signal is input.
  - when the input signal is weak.
  - when the screen is exposed to spotlights or direct sunlight.
  - when you watch the teletext broadcast.

# Additional Presetting Functions



## MANUAL PROGRAMME PRESET



## Presetting Channels Manually

Using this function, you can preset channels one by one to different programme positions. This is also convenient to allocate programme numbers to video input sources.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm the selection.
- 3 Push to blue or green to select "Manual Programme". Push to yellow to confirm the selection.
- 4 Push to blue or green to select the programme position (PROG) to which you want to preset a channel. Push to yellow to confirm.
- 5 Push to blue or green to select the TV broadcast system (SYS) (I for U.K., B/G for western European countries, D/K for eastern European countries, L for France) or a video input source (AV1, AV2, AV3, YC2, YC3, RGB). Push to yellow to confirm.
- 6 Push to blue or green to select "C" (for terrestrial channels) or "S" (for cable channels). You can also select "C" or "S" by pressing C on the Remote Commander. For selecting "C", press C once, and for "S", press it twice. Push to yellow to confirm.

PRESET	
<input type="checkbox"/>	Auto Programme
<input checked="" type="checkbox"/>	Manual Programme
<input type="checkbox"/>	AV Label Preset
<input type="checkbox"/>	Programme Sorting
<input type="checkbox"/>	Parental Lock
<input type="checkbox"/>	Language
<input type="checkbox"/>	Convergence

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	LABEL	AFT
<input type="checkbox"/>	0	B/G	C29	----- ON
<input type="checkbox"/>	1	B/G	C31	----- ON
<input type="checkbox"/>	2	B/G	C32	----- ON
<input type="checkbox"/>	3	B/G	C36	----- ON
<input checked="" type="checkbox"/>	4	B/G	C37	----- ON
<input type="checkbox"/>	5	B/G	C40	----- ON
<input type="checkbox"/>	6	B/G	C41	----- ON
<input type="checkbox"/>	7	B/G	C44	----- ON
<input type="checkbox"/>	8	B/G	C49	----- ON
<input type="checkbox"/>	9	B/G	C52	----- ON

### There are two options to preset channels manually:

- a) You know the channel number.  
Please use method "Direct Input".  
**or**
- b) You don't know the channel number.  
Please use method "Search".

#### 7 a) Direct Input

Select the first number digit of "CHAN" (channel), then the second number digit of "CHAN" with the number buttons on the Remote Commander (e.g. for channel 2, first press 0, then 2).

#### 7 b) Search

Push the joystick to blue or green to search for the next available channel.

- 8 If you want to store the channel, go to step 9. If not, select a new channel using the number button on the Remote Commander or push the joystick to blue or green to resume the search.
- 9 Press the joystick to confirm.
- 10 Repeat steps 4 to 9 to preset other channels.
- 11 Press MENU to restore the normal TV picture.

**MANUAL PROGRAMME PRESET**

## Manual Fine-Tuning

Normally, the automatic fine-tuning (AFT) function is already operating.

If the picture is distorted, however, you can manually fine-tune the TV to obtain a better picture reception.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select "Manual Programme". Push to yellow to confirm.
- 4 Push to blue or green to select the programme number which corresponds to the channel you want to manually fine-tune.
- 5 Push to yellow repeatedly until the AFT position changes colour.
- 6 Push to blue or green to fine-tune the channel frequency (-15 to +15).
- 7 Press the joystick to confirm.
- 8 Repeat steps 4 to 7 to fine-tune other channels.
- 9 Press MENU to restore the normal TV picture.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	LABEL	AFT
<input type="checkbox"/>	0	B/G	C29	----- ON
<input type="checkbox"/>	1	B/G	C31	----- ON
<input type="checkbox"/>	2	B/G	C32	----- ON
<input type="checkbox"/>	3	B/G	C36	----- ON
<input checked="" type="checkbox"/>	4	B/G	C37	----- ON
<input type="checkbox"/>	5	B/G	C40	----- ON
<input type="checkbox"/>	6	B/G	C41	----- ON
<input type="checkbox"/>	7	B/G	C44	----- ON
<input type="checkbox"/>	8	B/G	C49	----- ON
<input type="checkbox"/>	9	B/G	C52	----- ON

**PROGRAMME SORTING**

## Sorting Programme Positions

This function enables you to sort the programme positions to a preferable order.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select "Programme Sorting". Push to yellow to confirm.
- 4 Push to blue or green to select the programme position of the channel you want to change. Press joystick to confirm.
- 5 Push to blue or green to select the programme position of the channel you want to exchange. Press joystick to confirm.
- 6 Repeat steps 4 and 5 to sort other programme positions.
- 7 Press MENU to restore the normal TV picture.

PRESET	
<input type="checkbox"/>	Auto Programme
<input type="checkbox"/>	Manual Programme
<input type="checkbox"/>	AV Label Preset
<input checked="" type="checkbox"/>	Programme Sorting
<input type="checkbox"/>	Parental Lock
<input type="checkbox"/>	Language
<input type="checkbox"/>	Convergence

PROGRAMME SORTING			
PROG	SYS	CHAN	LABEL
<input checked="" type="checkbox"/>	0	B/G	C28 BBC-W
<input type="checkbox"/>	1	B/G	C29 VHS-2
<input type="checkbox"/>	2	B/G	C35 CNN--
<input type="checkbox"/>	3	B/G	C38 ----
<input type="checkbox"/>	4	B/G	C40 MV-CH
<input type="checkbox"/>	5	B/G	C42 VHS-1
<input type="checkbox"/>	6	B/G	C55 ----
<input type="checkbox"/>	7	B/G	C56 8MM
<input type="checkbox"/>	8	B/G	C57 ----
<input type="checkbox"/>	9	B/G	C58 ----

## MANUAL PROGRAMME PRESET

### Skipping Programme Positions

This function enables you to skip unused programme positions when selecting them with the PROGR +/- buttons. However, by using the number buttons you can still select the skipped programme position.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select "Manual Programme". Push to yellow to confirm.
- 4 Push to blue or green to select the programme position you want to skip. Push to yellow to confirm.
- 5 Push to blue or green to select "- - -" in the position SYS (system). Press the joystick to confirm.
- 6 Repeat steps 4 and 5 to skip other programme positions.
- 7 Press MENU to restore the normal TV picture.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	LABEL	AFT
<input type="checkbox"/>	0	B/G	C29	----- ON
<input type="checkbox"/>	1	B/G	C31	----- ON
<input type="checkbox"/>	2	B/G	C32	----- ON
<input type="checkbox"/>	3	B/G	C36	----- ON
<input checked="" type="checkbox"/>	4	B/G	C37	----- ON
<input type="checkbox"/>	5	B/G	C40	----- ON
<input type="checkbox"/>	6	B/G	C41	----- ON
<input type="checkbox"/>	7	B/G	C44	----- ON
<input type="checkbox"/>	8	B/G	C49	----- ON
<input type="checkbox"/>	9	B/G	C52	----- ON

## MANUAL PROGRAMME PRESET

### Captioning a Station Name

Channels are automatically labelled during presetting. You can, however, individually name a channel or a video source using up to five characters.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select "Manual Programme". Push to yellow to confirm.
- 4 Push to blue or green to select the programme position with the channel you want to label. Push to yellow repeatedly until the first element of the position LABEL is highlighted.
- 5 Push to blue or green to select a letter or a number (select "-" for a blank). Push to yellow to confirm. Select the other four characters in the same way.
- 6 After selecting all characters, press the joystick to confirm.
- 7 Repeat steps 4 to 6 to label other channels or video sources.
- 8 Press MENU to restore the normal TV picture.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	LABEL	AFT
<input type="checkbox"/>	0	B/G	C29	----- ON
<input type="checkbox"/>	1	B/G	C31	----- ON
<input type="checkbox"/>	2	B/G	C32	----- ON
<input type="checkbox"/>	3	B/G	C36	----- ON
<input checked="" type="checkbox"/>	4	B/G	C37	----- ON
<input type="checkbox"/>	5	B/G	C40	----- ON
<input type="checkbox"/>	6	B/G	C41	----- ON
<input type="checkbox"/>	7	B/G	C44	----- ON
<input type="checkbox"/>	8	B/G	C49	----- ON
<input type="checkbox"/>	9	B/G	C52	----- ON

**PARENTAL LOCK**

**If you try to select a programme that has been blocked**  
The message "LOCKED" appears on the blank TV screen.

**To unblock**  
Select the channel to unblock in the "PARENTAL LOCK" menu. Press the joystick. The symbol  disappears.

**Using Parental Lock**

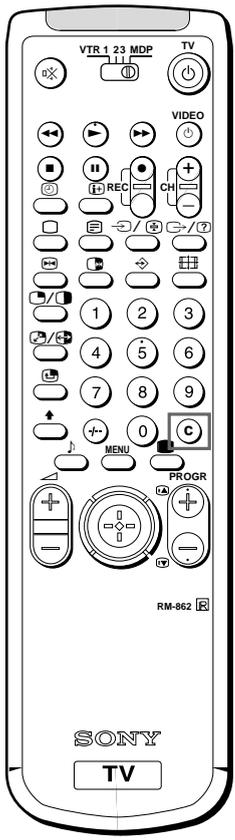
This function enables you to prevent children from watching undesirable broadcasts.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to green or blue to select "Parental Lock". Push to yellow to confirm.
- 4 Push to green or blue to select the channel you want to block. Press the joystick to confirm. The symbol  appears before the programme position to indicate that this channel is now blocked.
- 5 Repeat step 4 to block other channels.
- 6 Press MENU to restore the normal TV picture.

PRESET	
<input type="checkbox"/>	Auto Programme
<input type="checkbox"/>	Manual Programme
<input type="checkbox"/>	AV Label Preset
<input type="checkbox"/>	Programme Sorting
<input checked="" type="checkbox"/>	Parental Lock
<input type="checkbox"/>	Language
<input type="checkbox"/>	Convergence

PARENTAL LOCK			
PROG	SYS	CHAN	LABEL
<input checked="" type="checkbox"/> 0	B/G	C28	BBC-W
<input type="checkbox"/> 1	B/G	C29	VHS-2
<input type="checkbox"/> 2	B/G	C35	CNN--
<input type="checkbox"/> 3	B/G	C38	----
<input type="checkbox"/> 4	B/G	C40	MV-CH
<input type="checkbox"/> 5	B/G	C42	VHS-1
<input type="checkbox"/> 6	B/G	C55	----
<input type="checkbox"/> 7	B/G	C56	8MM
<input type="checkbox"/> 8	B/G	C57	----
<input type="checkbox"/> 9	B/G	C58	----

PROG	SYS	CHAN	LABEL
<input checked="" type="checkbox"/>  0	B/G	C28	BBC-W
<input type="checkbox"/> 1	B/G	C29	VHS-2
<input type="checkbox"/> 2	B/G	C35	CNN
<input type="checkbox"/> 3	B/G	C38	----



**Tuning in a Channel Temporarily**

You can tune in to a channel temporarily, even though it has not been preset.

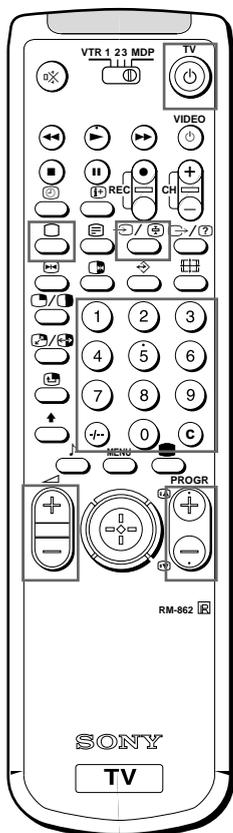
- 1 Press C on the Remote Commander. For cable channels, press C twice. The indication "C" ("S" for cable channels) appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. Note that the channel will not be stored.



**Note**  
After you tune in a channel temporarily, you cannot enter the manual preset mode. To store the channel, refer to the "Presetting Channels Manually" on page 10.

# Operating Instructions

## Watching the TV



If no picture appears when you depress **⏻** on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press **□**, **PROGR +/-** or one of the number buttons to switch it on.

This section explains the basic functions you use while watching the TV. Most operations are done using the Remote Commander.

### Switching the TV on and off

#### Switching on

Depress **⏻** on the TV.

#### Switching off temporarily

Press **⏻** on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up in red.

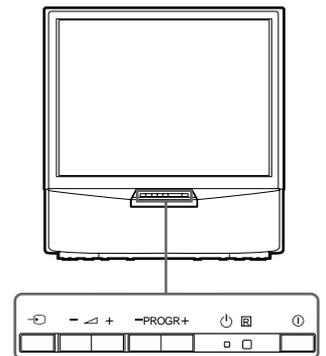
#### To switch on again

Press **□**, **PROGR +/-**, or one of the number buttons on the Remote Commander.

#### Switching off completely

Depress **⏻** on the TV and the indicator on the front of the TV lights up in amber.

To save energy, we recommend you switch off your TV completely when the TV is not in use.



### Selecting TV Programmes

Press **PROGR +/-** or press the number buttons.

#### To select a double-digit number

Press **÷**, then the numbers.

For example, if you want to choose 23, press **÷**, 2 and 3.

### Adjusting the Volume

Press **⏮ +/-**.

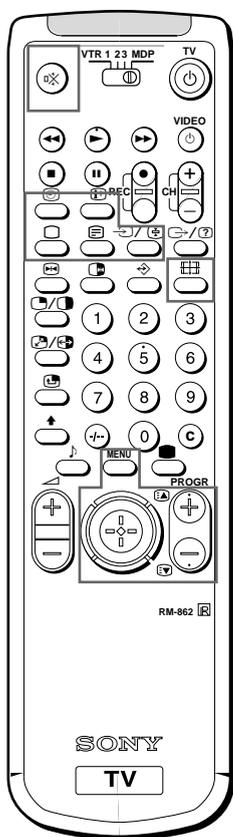
### Operating the TV Using the Buttons on the TV

To select the programme number, press the **PROGR +/-** buttons.

To adjust the volume, press the **⏮ +/-** buttons.

To select the video input picture, press the **↺** button.

## Watching Teletext or Video Input



For details of the teletext operation, refer to page 18.

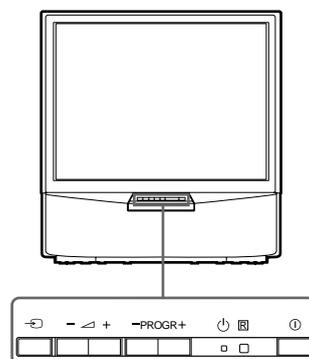
For details of the video input picture, refer to page 21.

### Watching teletext

- 1 Press to view the teletext.
- 2 For teletext operation, enter a 3-digit page number with the number buttons to select a page.  
For fastext operation, push the joystick to the colour mark which corresponds to the colour-coded menu.  
For both operations, press (PAGE +) for the next page or (PAGE -) for the preceding page.
- 3 To go back to the normal TV picture, press .

### Watching a video input picture

- 1 Press repeatedly until the desired video input appears.
- 2 To go back to the normal TV picture, press .



## More Convenient Functions

### Displaying the on screen indications

Press to display the indications.  
Press again to make the indications disappear.

### Muting the sound

Press .

To resume normal sound, press again.

### Displaying the time

Press . This function is available only when teletext is broadcast.  
To make the time display disappear, press again.

### Viewing the programmes in 16:9 mode

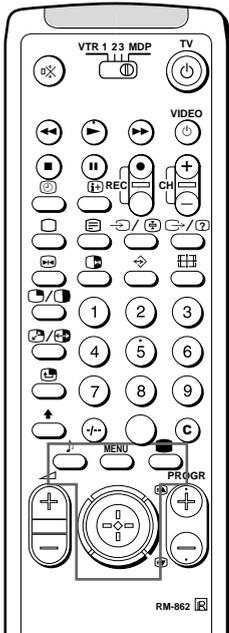
Press .

Press again to return to 4:3 mode.

# Adjusting and Setting the TV Using the Menu

## PICTURE CONTROL

## SOUND CONTROL



## Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

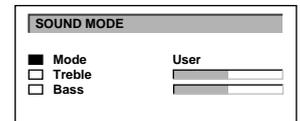
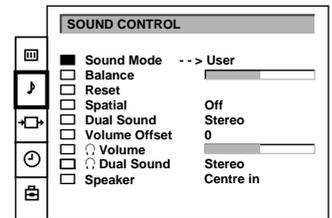
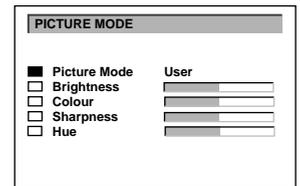
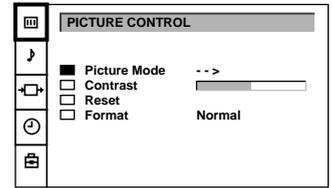
- 1 Press **■** (for picture) or **≥** (for sound) on the Remote Commander.

or

Press MENU and select the symbol **■** for Picture Control or **≥** for Sound Control. Push to yellow to confirm.

The PICTURE CONTROL or SOUND CONTROL menu appears.

- 2 Push the joystick to blue or green to select the desired item. Push to yellow to confirm. The selected item changes its colour.
- 3 Push to red or yellow to adjust the selected item. Press the joystick to confirm. For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to restore the normal TV picture.



### Effect of each control

PICTURE CONTROL	Effect
Picture Mode	User ↔ Game ↔ Movie ↔ Sports ↔ Live
Brightness	Darker ..... Brighter
Colour	Less ..... More
Sharpness	Softer ..... Sharper
Hue	Greenish ..... Reddish
Contrast	Less ..... More
Reset	Resets picture to the factory preset levels.
Format	4:3: normal 16:9: wide screen effect

#### Note

HUE is available for NTSC colour systems only.

#### Note on LINE OUT

The dual sound mode output from the **↻** jack on the rear corresponds to the Headphones Dual Sound settings.

#### When watching a video input source with stereo sound

You can select Dual Sound to change the sound.

#### When "User" is selected in "Picture Mode"

You can preset Brightness, Colour, Sharpness and Hue (NTSC signals only) as follows:

- 1 Push the joystick to blue or green to select the desired item. Push to yellow to confirm.
- 2 Push to red or yellow to adjust. Press the joystick to confirm.
- 3 Push to red to return to the PICTURE CONTROL menu.

SOUND CONTROL	Effect
Sound Mode	Choice between different sound effects User ↔ Rock ↔ Jazz ↔ Pop 
Treble	Less ..... ..... More
Bass	Less ..... ..... More
Balance	More left ..... ..... More right
Reset	Resets sound to the factory preset levels.
Spatial	Off: normal On: acoustic sound effect
Dual Sound	A: left channel B: right channel Stereo → Mono The selected mode of the A-∞-B indicator on the TV lights up.
Volume Offset	Presets the volume level for individual programmes. -12 ..... ..... 12
Volume	Less ..... ..... More
Dual Sound	A: channel 1 → B: channel 2 Stereo → Mono
Speaker	Main: sound from TV set Centre in: sound from external amplifier

**When “User” is selected in “Sound Mode”**

You can preset Treble and Bass as follows:

- 1 Push the joystick to blue or green to select the desired item. Push to yellow to confirm.
- 2 Push to red or yellow to adjust. Press the joystick to confirm.
- 3 Push to red to return to the PICTURE CONTROL menu.

**TIMER**

**To switch off the timer**  
Select “OFF” in step 3.

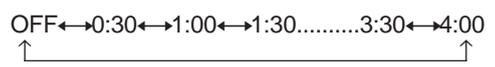
**To check the remaining time**  
Press .

**To go back to the normal TV picture**  
Press MENU.

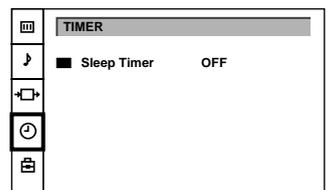
**Using the Sleep Timer**

You can select a time period after which the TV automatically switches into standby mode.

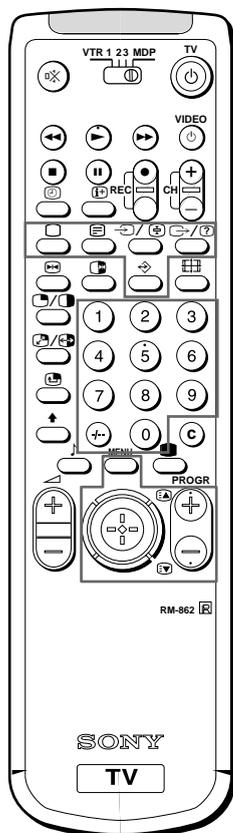
- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- 3 Push to yellow. Push to red or yellow to set time delay and press the joystick to confirm.



- 4 Press the joystick to confirm.  
One minute before the TV switches into standby mode, a message is displayed on the screen.



# Teletext



**Note**  
Teletext errors may occur if the broadcasting signals are weak.

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

## Direct Access Functions

### Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press  to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, the indication P100 is displayed on a black screen.
- 3 Input three digits for the page number using the number buttons. If you have made a mistake, type in any three digits. Then re-enter the correct page number.
- 4 Press  to return to the normal TV picture.

### Accessing next or preceding page

Press  (PAGE+) or  (PAGE-).  
The next or preceding page appears.

### Superimposing the teletext display on the TV programme

- Press  once to get Teletext only.
- Press  twice for Mix mode. The normal TV screen and the Teletext screen are overlapped.

### Preventing a teletext page from being updated

- Press .  
The symbol " " is displayed on the information line. Press again to cancel.
- Press  to resume normal teletext reception.

### Revealing hidden information (e.g. for a quiz)

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information.

Press . Press again to cancel.  
Press  to resume normal teletext reception.

## Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

### Storing pages

- 1 Use the number buttons to select the page you would like to store.
  - 2 Press  $\diamond$  twice.  
The colour prompts at the bottom of the screen flash.
  - 3 Push the joystick to the desired colour to store the selected page.  
The page is now stored on this colour.
- Repeat steps 1 to 3 for the other 3 pages.

### Displaying the favourite pages

- 1 Press  $\diamond$ .
- 2 Push the joystick to the colour on which the desired page is stored.  
Make sure you press  $\diamond$ , otherwise the normal Fastext facility operates.

### Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue positions on the Remote Commander. Push the joystick to the colour mark which corresponds to the colour-coded menu. The page will be displayed after a few seconds.

#### Note

Fastext operation is possible, only when the TV station broadcasts Fastext signals.

# Connecting and Operating Optional Equipment

## Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VCR, video disc player, and stereo system.

### To connect a VCR using the T<sub>F</sub> terminal

Connect the aerial output of the VCR to the aerial terminal T<sub>F</sub> of the TV. We recommend that you tune in the video signal to programme number "0". For details, see "Presetting Channels Manually" on page 10.

### If the picture or the sound is distorted

Move the VCR away from the TV.

### About S video Inputs (Y/C input)

Video signals can be separated into Y (luminance or brightness) and C (chrominance) signals.

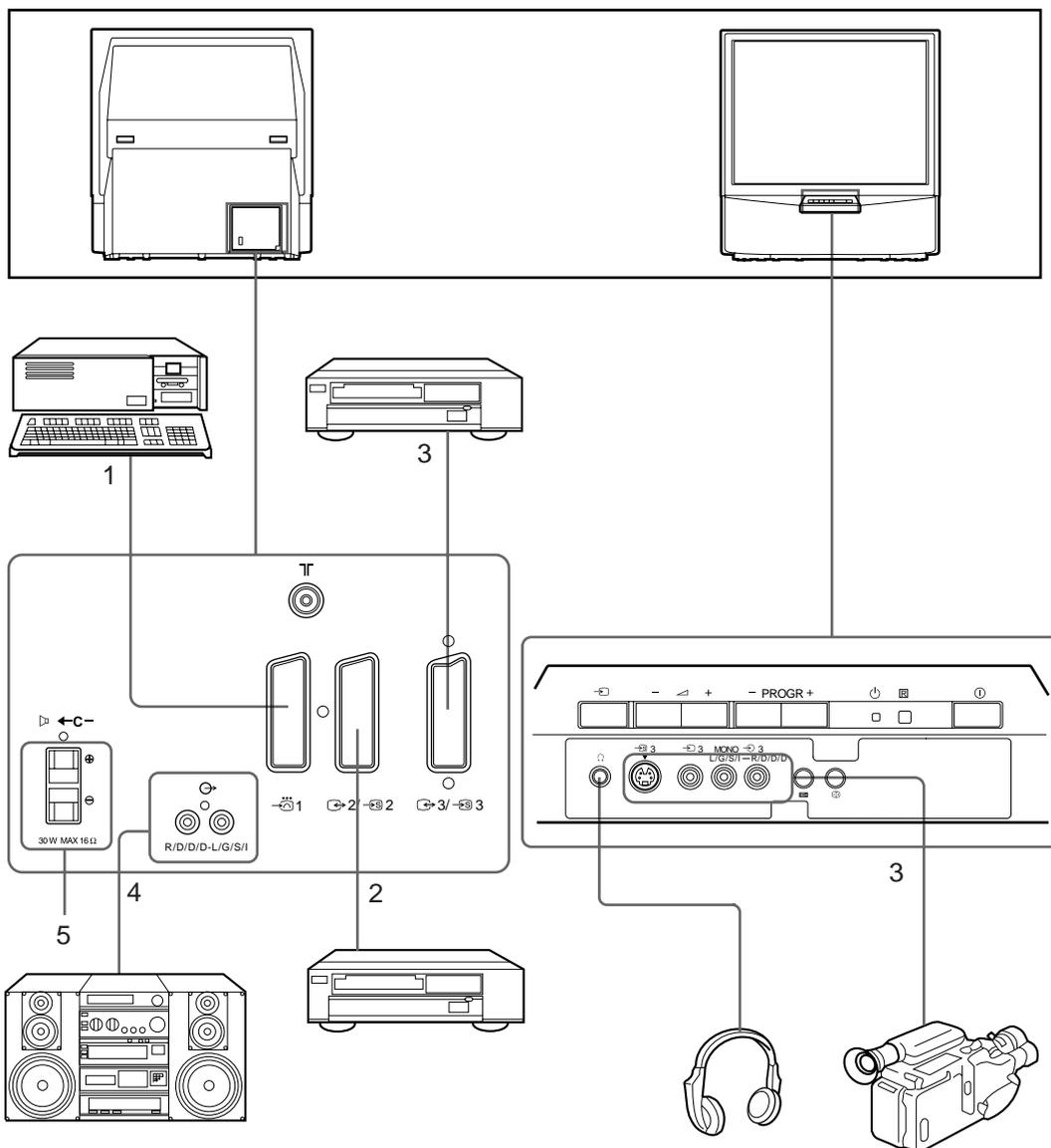
Separating the Y and C signals prevents them from interfering with one another, therefore it improves picture quality (especially luminance). This TV is equipped with 3 S Video input jacks, through which these separated signals can be input directly.

### When connecting a monaural VCR

Connect only the white  $\leq$  jack to both the TV and VCR.

### Note

When you connect the equipment to the  $\rightarrow$ 3/ $\leftarrow$ 3/ $\leq$  3 connectors on the front panel and  $\rightarrow$ 3/ $\leftarrow$ 3 connector on the rear panel, turn off the power of the equipment not in use.



### Acceptable input signal

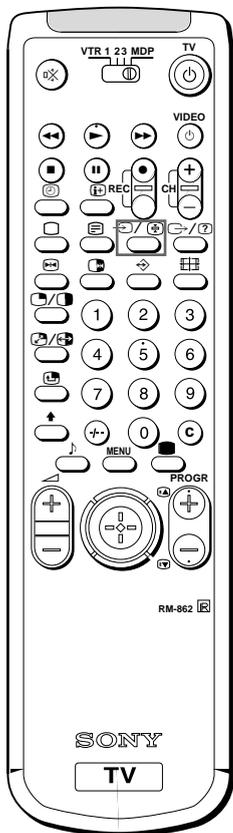
- 1 Normal audio/video and RGB signal
- 2 Normal audio/video and S video signal
- 3 Normal audio/video and S video signal  
Normal audio/video and S video signal
- 4 No inputs
- 5 Centre speaker input  
Set "Speaker" on the SOUND CONTROL menu to "Centre in".

### Available output signal

- Video/audio from TV tuner
- Video/audio from selected source
- No outputs
- Video/audio from selected source (the same output source as the  $\rightarrow$ 2/ $\leftarrow$ 2 connector)
- Audio signal
- No outputs

**Selecting input with PROGR +/- or number buttons**

You can preset video input sources to the programme positions so that you can select them with PROGR +/- or number buttons. For details, see "Presetting Channels Manually" on page 10.



## Selecting Input and Output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.



**Selecting input**

Press repeatedly to select the input source. The symbol of the selected input source will appear.

**To go back to the normal TV picture**

Press .

**Input modes**

Symbol	Input signal
1	Audio/video input through the  1 connector
	Audio/RGB input through the  1 connector
2	Audio/video input through the  2/ 2 connector
2	Audio/S video input through the  2/ 2 connector
3	Audio/video input through  3 and $\leq$ 3 connectors on the front or  3/ 3 connector on the rear
3	Audio/S video input through the  3 connector (4-pin connector) on the front or  3/ 3 connector on the rear

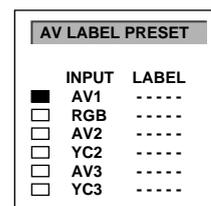
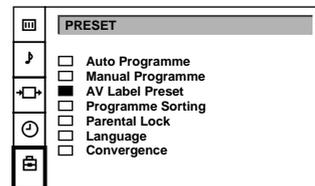
You can also select the input mode using the button on the TV.

## AV LABEL PRESET

### Using AV Label Preset

Using this function you can preset the desired input source (e.g. → 1, RGB signal) to the respective AV input (AV 1 → 1). In this way, a connected VCR will automatically switch to the RGB signal.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select "AV Label Preset". Push to yellow.
- 4 Push to blue or green to select the desired input source. Push to yellow to confirm.
- 5 Push to blue or green to select a letter or number. Push to yellow (select "-" for a blank).  
Select the other four characters in the same way.
- 6 After selecting all the characters, press the joystick to confirm.
- 7 Repeat steps 4 to 6 to label other input sources.
- 8 Press the MENU button to return to the normal TV picture.

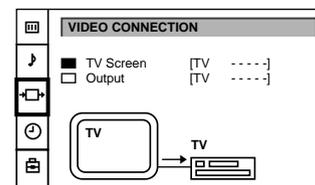


## VIDEO CONNECTION

### Checking and Selecting the Input and Output Sources Using the Menu

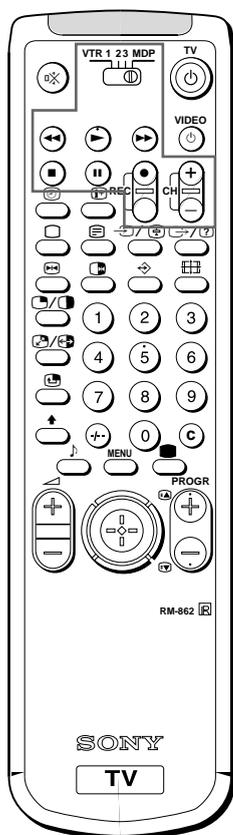
You can display the menu to see which input sources are selected for the TV screen, as well as which output source is selected. You can also select them on the menu display.

- 1 Press MENU.
- 2 Push the joystick to blue or green to select the symbol  on the menu screen. Push to yellow to confirm.  
The VIDEO CONNECTION menu appears.  
You can see which source is selected for the TV and for the output. If you want to select the input and output on this menu, go on to the next step.
- 3 Push to blue or green to select "TV Screen" (input source for TV-screen), or "Output" (output source for → 2/→ 2 and → 3/→ 3).  
Push to yellow to confirm.
- 4 Push to red or yellow to select the desired source. Press joystick to store.
- 5 Repeat steps 3 to 4 to select the source for other inputs or outputs.
- 6 Press MENU to return to the normal TV picture.



#### Note

If you select "AUTO" for output, the output source automatically becomes the same as the desired input source.



## Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment: beta, 8 mm and VHS VCRs and video disc players.

### Tuning the Remote Commander to the equipment

- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:
  - VTR1: Beta VCR
  - VTR2: 8 mm VCR
  - VTR3: VHS VCR
  - MDP: Video disc player
  
- 2 Use the buttons indicated in the illustration to operate the additional equipment.
 

If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

### When recording

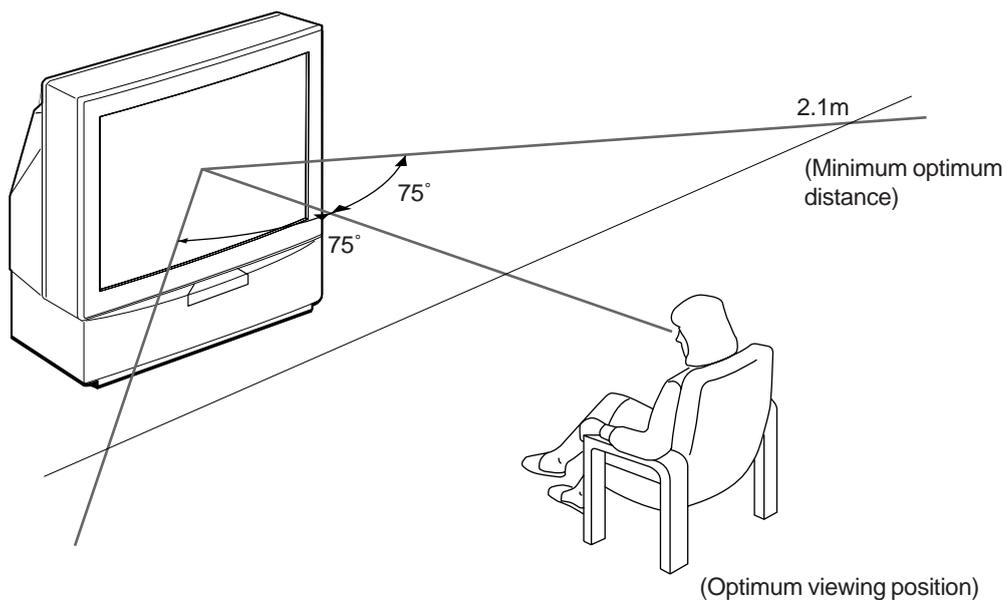
When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

# For Your Information

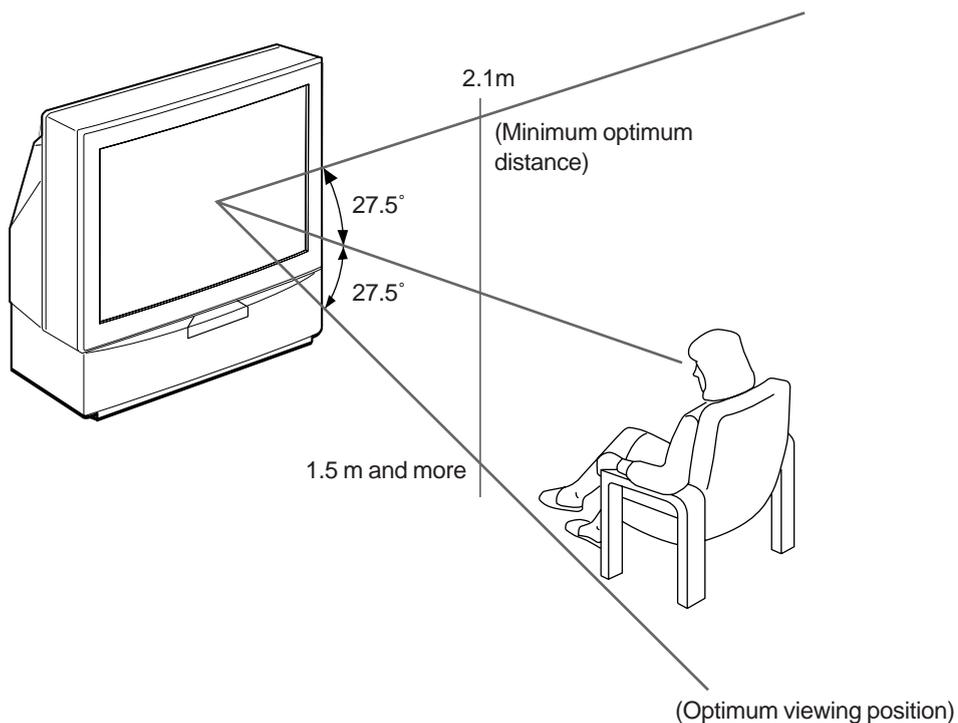
## Optimum Viewing Area

For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

### Horizontal viewing area



### Vertical viewing area



## Cleaning the Screen

- To clean the screen with a cloth, please use a soft cloth lightly moistened with a mild detergent solution or water. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine, or antistatic spray.  
As a safety precaution, unplug the TV before cleaning it.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items, like a ball point pen or a screw driver. Otherwise, this type of contact may result in a scratched screen.

## Troubleshooting

Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"> <li>Plug the TV in.</li> <li>Press  on the TV (if  indicator is on, press  or a programme number on the Remote Commander).</li> <li>Check the aerial connection.</li> <li>Check if the selected video source is on.</li> <li>Turn the TV off for 3 or 4 seconds then turn it on again using .</li> </ul>
Poor or no picture (screen is dark), but good sound	<ul style="list-style-type: none"> <li>Press  to enter the PICTURE CONTROL menu and adjust the brightness, contrast and colour.</li> </ul>
Poor picture quality when watching an RGB video source	<ul style="list-style-type: none"> <li>Press  repeatedly to select .</li> </ul>
Good picture but no sound	<ul style="list-style-type: none"> <li>Press  +.</li> <li>Check if "Centre in" is selected on the SOUND CONTROL menu.</li> <li>If  is displayed on the screen, press .</li> </ul>
No colour for colour programmes	<ul style="list-style-type: none"> <li>Press  to enter the PICTURE CONTROL menu, select Reset, then press the joystick to confirm.</li> </ul>
Remote Commander does not function	<ul style="list-style-type: none"> <li>The batteries are weak.</li> </ul>

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

# Specifications

This product complies with the EU Directive 89/336/EEC.

Television system	B/G/H, D/K, I, L
Colour system	PAL/SECAM
Channel coverage	NTSC 3.58/4.43 (VIDEO IN)
	See "Receivable channels and channel displays" on this page and page 27.
Projected picture size	41 inches
	Approx. 103 cm measured diagonally

## Terminals

Rear	Center speaker input terminals, 2 terminals
	⊕ (L, R), audio outputs - phono jacks
	⊖ 1, 21-pin Euro connector (CENELEC standard)
	- inputs for audio and video signals
	- inputs for RGB
	- outputs of TV audio and video signals
	⊕ 2/⊖ 2, 21-pin Euro connector
	- inputs for audio and video signals
	- inputs for S video
	- outputs for audio and video signals (selectable)
	⊕ 3/⊖ 3, 21-pin Euro connector
	- inputs for audio and video signals
	- inputs for S video
	- outputs for audio and video signals (selectable, the same output source as the ⊕ 2/⊖ 2 connector)
Front	⊖ 3, S video inputs - 4-pin DIN
	⊖ 3, video inputs - phono jacks
	≤ 3 (L, R), audio inputs - phono jacks
	⊖, headphones jack - stereo minijack
Sound output	2 × 30 W (music power)
	2 × 15 W (RMS)
Centre SP input	30 W (RMS) (using as the centre speaker)
Power consumption	155 W
Dimensions (W × H × D)	948 × 992 × 511 mm
	(37 <sup>3</sup> / <sub>8</sub> × 39 <sup>1</sup> / <sub>8</sub> × 20 <sup>1</sup> / <sub>8</sub> inches)
Mass	43 kg (94 lbs 13 oz)
Supplied accessories	See page 6.
Other features	Digital comb filter (High resolution)
	FASTEXT

## Receivable Channels and Channel Displays

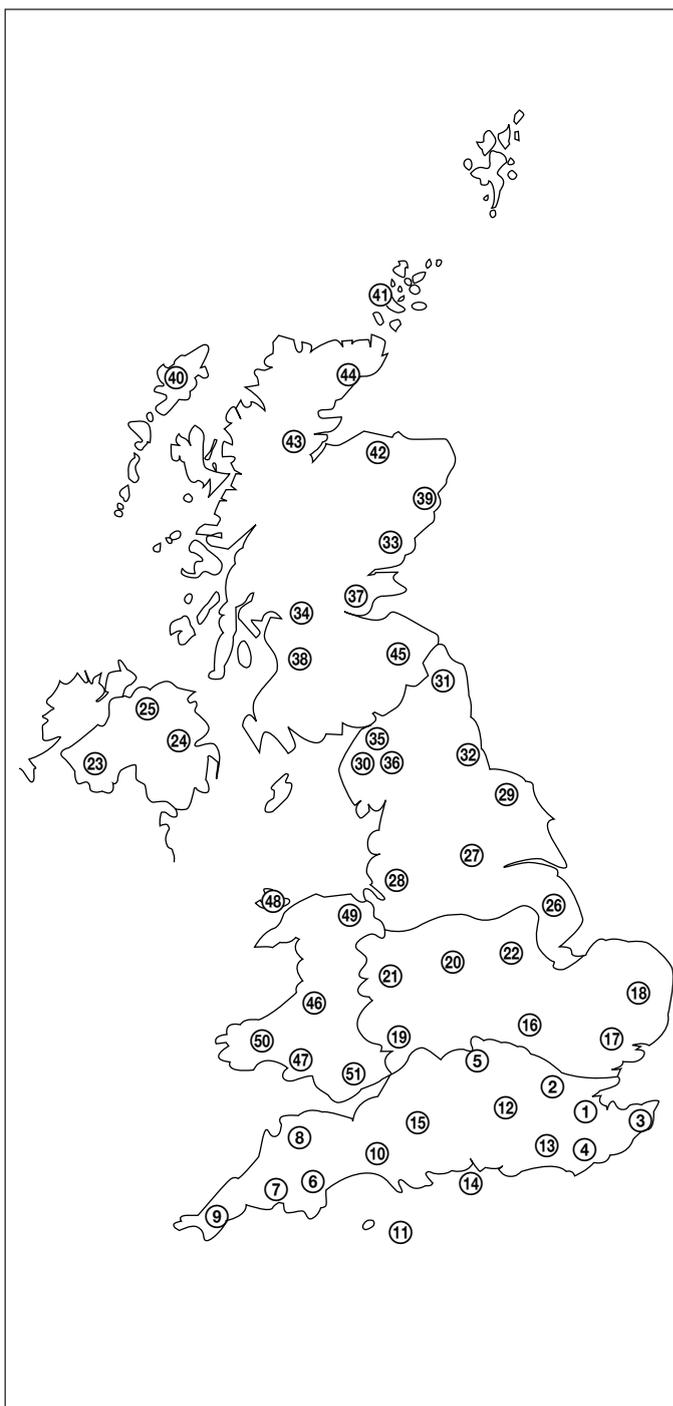
	Receivable channels	Indication on the screen
B/G/H	E2..12 21..69	C02 C03 C04..C12 C21..C69
CABLE TV (1)	S1..41	S01 S02..S41
CABLE TV (2)	S01..S05 M1..M10 U1..U10	S42..S46 S01..S10 S11..S20
ITALY	A B C D E F G H H1 H2 21..69	C11..C69
D/K	R01..R12 R21..R69	C02..C12 C21..C69
CABLE TV (1)		S01 S02..S41
CABLE TV (2)		S42 S43..S46
CABLE TV	B..Q, S21..41	S02, S03..S17, S21..S41
L	F2..F10 F21..F69	C01..C12 C21..C69
I	B21..B68	C21..C68

Design and specifications are subject to change without notice.

# 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
<b>London &amp; South East</b>				
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
<b>South-West</b>				
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
<b>Channel Islands</b>				
⑪ Fremont Point	51	44	41	47
<b>South</b>				
⑫ Hannington	39	45	42	66
⑬ Midhurst	61	55	58	68
⑭ Rowridge	31	24	27	21
<b>West</b>				
⑮ Mendip	58	64	61	54
<b>East</b>				
⑯ Sandy Heath	31	27	24	21
⑰ Sudbury	51	44	41	47
⑱ Tacolneston	62	55	59	65
<b>Midlands (West)</b>				
⑲ Ridge Hill	22	28	25	32
⑳ Sutton Coldfield	46	40	43	50
㉑ The Wrekin	26	33	23	29
<b>Midlands (East)</b>				
㉒ Waltham	58	64	61	54
<b>Northern Ireland</b>				
㉓ Brougher Mountain	22	28	25	32
㉔ Divis	31	27	24	21
㉕ Limavady	55	62	59	65
<b>North</b>				
㉖ Belmont	22	28	25	32
㉗ Emley Moor	44	51	47	41
<b>North-West</b>				
㉘ Winter Hill	55	62	59	65
<b>North-East</b>				
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
<b>Scotland</b>				
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
<b>Wales</b>				
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



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