SONY_®

Trinitron Colour Television

Instruction Manual



This Instruction Manual has been produced using Totally chlorine free (TCF) 100% Re-cycled paper to comply with our commitment to the use of environmentally friendly materials in our products.

© 1999 by Sony Corporation Printed in UK



GB



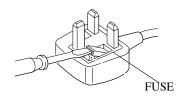
NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A molded 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 \circledast or \circledast) 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.



How to replace the Fuse

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

<u>IMPORTANT</u>

If the plug supplied is not suitable for the socket outlet 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 \pm 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.

Instruction Manual GB

Safety Information

For your safety

All TVs operate on extremely high voltages. To prevent fire or electric shock, please follow the safety procedures indicated below.

For General Safety

- Do not expose the TV set to rain or moisture.
- Do not remove the rear cover.
- For your protection, refer all servicing to qualified personnel only.

For Safe Installation

- Do not install the TV in hot, humid or excessively dusty places.
- Do not block or cover the ventilation openings. For ventilation, leave a space of at least 10 cm all around the set.
- Do not install the TV where it may be exposed to mechanical vibrations.
- Place the TV set only on a stable stand designed for the weight and dimensions of the TV.

For Safe Operation

- Do not operate the TV set on anything other than a 220-240V AC, 50Hz supply.
- Do not operate the TV if any liquid or solid objects fall in through the ventilation slots. Have it checked immediately.
- For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Switch off at the mains.
- Do not disconnect the TV by pulling on the power cable. Disconnect by removing the mains plug.
- In case of a thunderstorm, disconnect the TV set from the main supply and the aerial. Otherwise the set may be damaged by a stroke of lightning.

For Maintenance

- When the TV is switched off, clean the TV screen with a soft dampened cloth. Do not use any abrasive cleaners.
- Dust and nicotine deposits may cause heat accumulation inside the TV set. In the long term this could be a safety risk and may shorten the lifetime of your TV set. Therefore have your set serviced about every five years.

Table of Contents Table of Contents

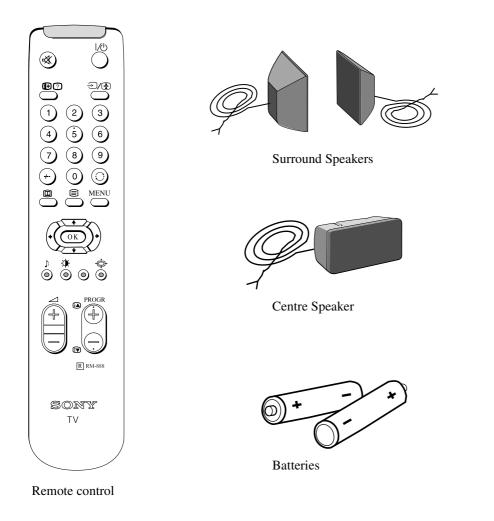
Quick Start Guide	
Checking the accessories supplied	4
Inserting batteries into the remote control	4
Connecting the speakers	5
Connecting the aerial	7
Switching on the TV	7
Automatically tuning the TV	8
Overview	
Overview of the TV set buttons	9
Overview of the remote control buttons	10
Additional TV Features	
Choosing a language for the TV menu screens	11
Automatically tuning the TV	12
Re-arranging the TV channels	13
Adjusting the picture	14
Changing picture and sound modes quickly	14
Adjusting the sound	15
Setting up Dolby Pro Logic	16
Changing the screen mode	17
Displaying subtitles for digital channels	18
Using the 'Further Programme Preset' feature	19
Adjusting the picture rotation	20
Using the parental lock	21
Using the sleep timer	22
Manually tuning the TV	23
Skipping programme positions	24
Naming a channel	25
Teletext	
Viewing standard teletext	26
Viewing digital teletext	27
Electronic Programme Guide (EPG)	
Displaying the EPG	28
Viewing information on the EPG	28
Recording programmes	29
Setting the manual timer	30
Optional Equipment	
Connecting equipment to the TV	31
Additional information when connecting equipment	31
Selecting the output source for the scart sockets G or H	32
Using the 'AV Label Preset' feature	33
Additional Information	
Specifications	34
Troubleshooting	35
	1

Quick Start Guide

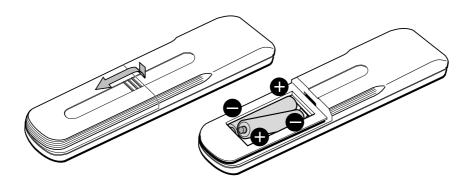
Follow steps 1-6 to:

Check the accessories supplied Insert batteries into your remote control Connect the aerial to your TV Plug in and switch on the TV View programmes on your TV

1. Checking the accessories supplied



2. Inserting batteries into the remote control



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

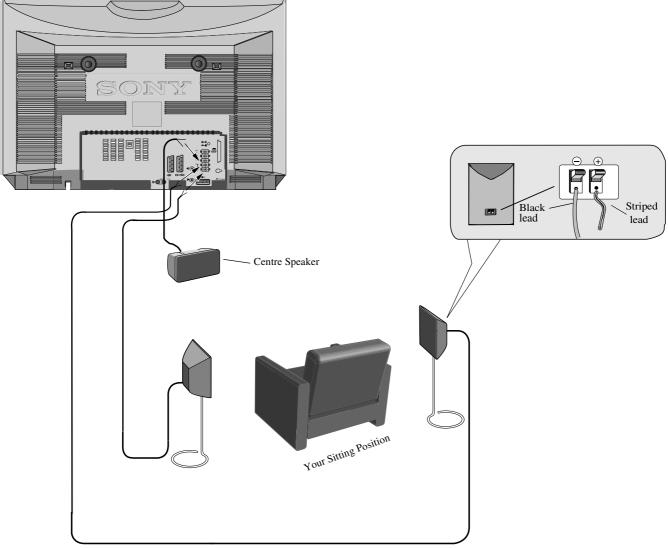
Quick Start Guide 3.1. Connecting the speakers

Before switching on the TV, please connect the speakers to the TV using the leads provided. Connect the striped lead to the red terminals and the black lead to the black terminals.

Dolby* ProLogic Surround normally requires 5 speakers:

Centre Speaker - to anchor the fixed sounds, like dialogues, to the screen. **Left and Right Front Speakers** (incorporated in the TV) - for the normal two channel stereo or bilingual broadcasts. **Surround Speakers** - for the special effects created by the surround channels.

To connect the speakers provided:



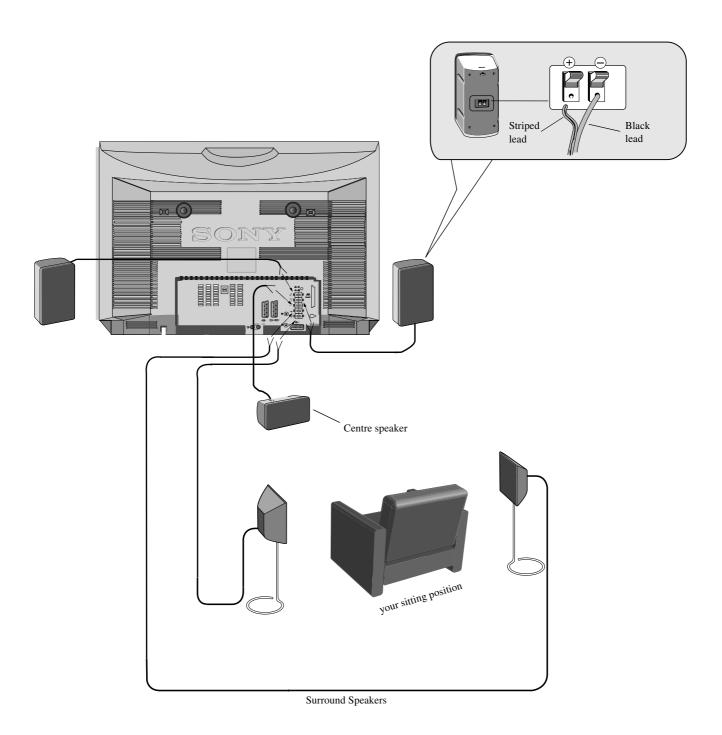
Surround Speakers

* Manufactured under licence from Dolby laboratories Licensing Corporation. 'Dolby', 'ProLogic', and the double -D symbol are trademarks of the Dolby Laboratories Licencing Corporation.

** For the best sound effects, place the surround speakers one meter above your listening position.

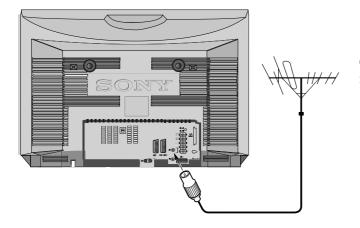
3.2. Connecting the speakers

To connect your own speakers (when using your own speakers, make sure they are at least 4 ohms impedance and magnetically shielded)



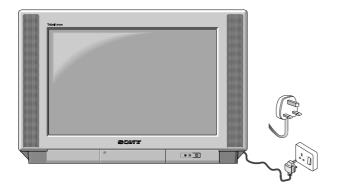
Note: When you connect your own external left and right speakers you must mute the internal speakers by pressing in the button marked $\Pi \triangleleft$ on the rear of the TV.

4. Connecting the aerial

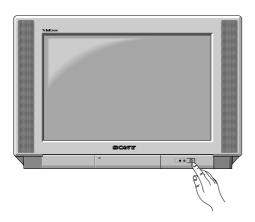


Connect a conventional aerial to the socket marked \neg on the rear of the TV.

5. Switching on the TV



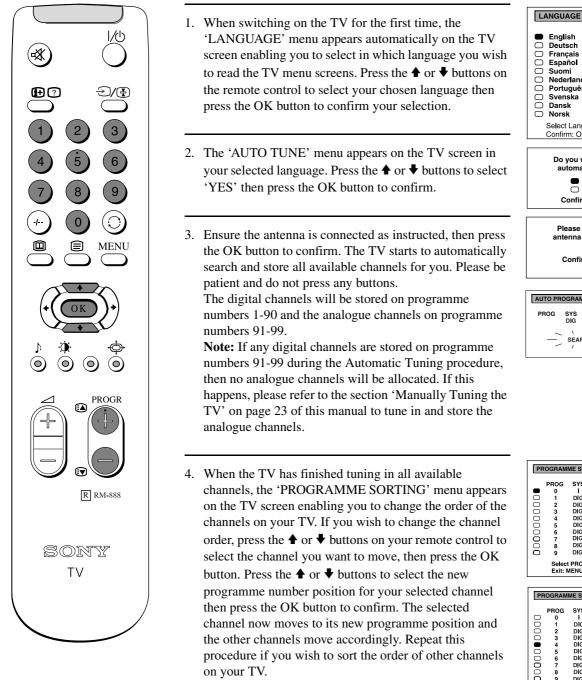
Connect the TV plug to the mains socket (220-240V AC, 50Hz) and switch on.



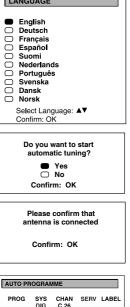
Push in the on/off switch on the front of the TV.

6. Automatically tuning the TV

When you first switch on the TV, the following sequence of menu screens appear on the TV enabling you to 1) choose a language for the TV menu screens, 2) tune channels to the TV, 3) arrange the channels.

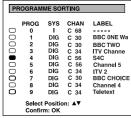


- 5. Press the MENU button to remove the menu from the TV screen.
- 6. Press the PROGR+/- or the numbered buttons on the remote control to view the TV channels.

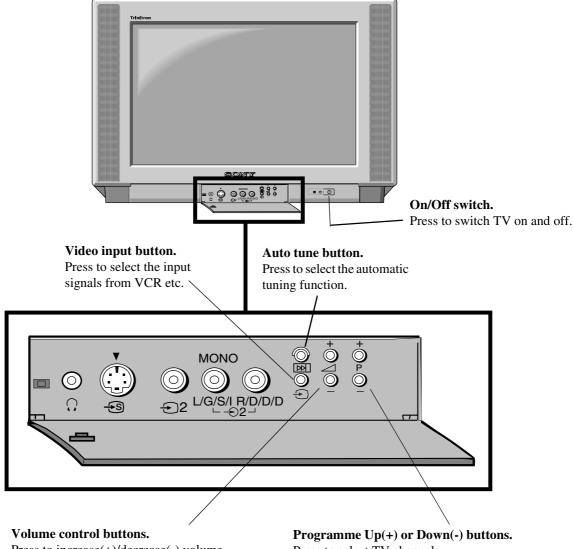




PF	ROGRAM	ME SOI	RTING	
000000000000000000000000000000000000000	PROG 0 1 2 3 4 5 6 7 8 9 Selec Exit: 1		CHAN C 68 C 30 C 34 C 56 C 56 C 34 C 34 C 34 C 34 C 34 C 34 C 34	LABEL BBC ONE Wa BBC TWO ITV Channe S4C Channel 5 ITV 2 BBC CHOICE Channel 4 Teletext K



Overview of the TV set buttons



Press to increase(+)/decrease(-) volume.

Press to select TV channels.

Overview of the remote control buttons

To mute sound

Press to mute TV sound. Press again to restore the sound.

To reveal on screen information

Press to reveal all on-screen indications. Press again to cancel. In teletext mode, press to reveal concealed information (eg answers to a quiz) then press again to cancel.

To select channels

Press the numbered buttons to select channels.

For double digit programme numbers, e.g.23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, select -/-- button again to enter the programme number of your choice.

To select EPG

Press to display the Electronic Programme Guide. Press again to remove display.

To select Teletext

Press to switch on Teletext.

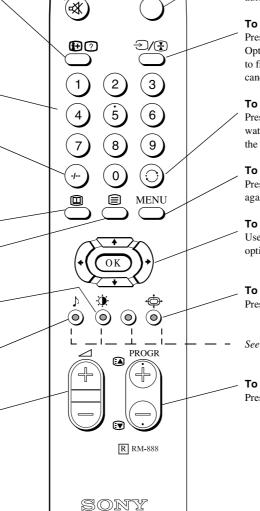
To display picture menu

Press to change the picture settings. Press - the OK button to remove the display.

To display sound menu

Press to change the sound settings. Press the OK button to remove the display.

To adjust TV volume Press to adjust the volume of the TV.



ΤV

1/心

To temporarily switch off TV

Press to temporarily switch off TV. Press again to switch on from standby mode. To save energy, we recommend switching off completely when TV is not in use.

NOTE: After 15-30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

To select input signal or freeze teletext

Press to select inputs from the TV sockets (see Using Optional Equipment section). In teletext mode, press to freeze the displayed page. Press once again to cancel.

To return to previous channel

Press to return to the previous channel you were watching. Note: This can be done only after watching the present channel for 5 seconds.

To display the menu

Press if you wish to use the TV menu system. Press again to remove the menu from the TV screen.

To select menu items

Use these buttons and the OK button to select the options available in the menu system of this TV.

To change screen format

Press to change the size of the screen.

See Teletext section of manual for details.

To select channels Press to select channels.

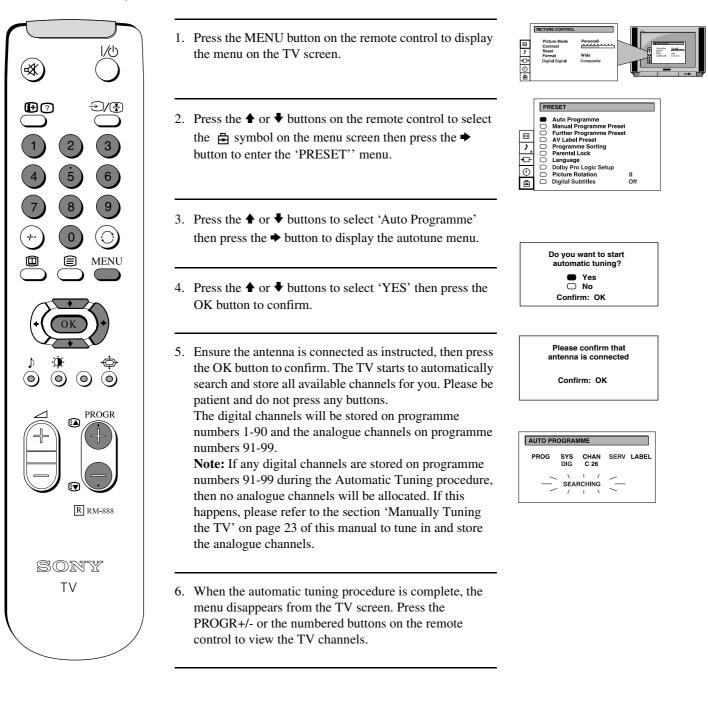
Choosing a language for the TV menu screens

The TV consists of a menu system which can appear on screen in a variety of languages. Use the following feature to select the language that best suits you.

PICTURE C 1. Press the MENU button on the remote control to display 1/心 the menu on the TV screen. (₩) œ? PRESET 2. Press the \blacklozenge or \clubsuit buttons to select the \boxminus symbol on the Auto Programme Manual Programme Preset Further Programme Preset AV Label Preset Programme Sorting Parental Lock Language 2 ์ 3 Auto Programm
 Manual Program
 Further Programm
 AV Label Preset
 Programme Sori
 Parental Lock
 Language
 Dolby Pro Logic
 Picture Rotation
 Digital Subtitles 1 menu screen then press the \Rightarrow button to enter the ₽ 5 'PRESET' menu. 6 4 , | | | | Language Dolby Pro Logic Setup Picture Rotation 0 Off 8 7 9 Ð \bigcirc 0 LANGUAGE 3. Press the \blacklozenge or \clubsuit buttons to select 'Language' on the MENU ▤ EnglishDeutsch menu screen then press the \Rightarrow button to enter the 'LANGUAGE' menu. 0000 Français Español Suomi Nederlands ō Português 4. Press the \blacklozenge or \clubsuit buttons to select your chosen language. Svens
 Dansk
 Norsk Svenska Dansk \odot \bigcirc \bigcirc $(\mathbf{0})$ 5. Press the OK button to confirm your selection. PROGR : 6. Press the MENU button to remove the display from the TV screen. R RM-888 SONY ΤV

Automatically tuning the TV

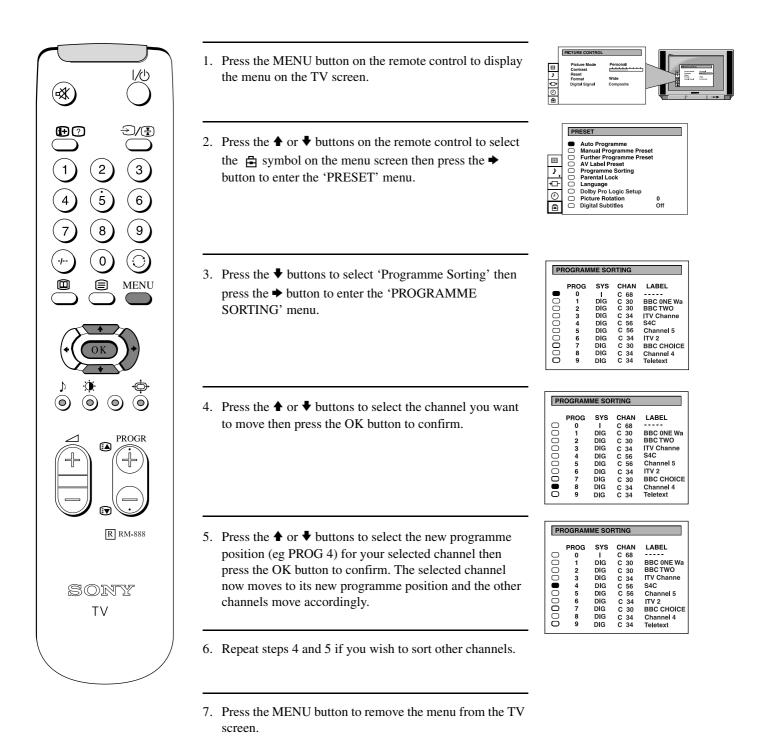
You have already tuned in all available channels using the 'Automatically tuning the TV' section at the start of this manual. If you need to repeat the tuning procedure however, follow the instructions below and the TV automatically searches and stores all available channels for you.



Note: Press the MENU button if you wish to stop the automatic tuning procedure.

Re-arranging the TV channels

After tuning the TV, you can use this feature to change the channel order.

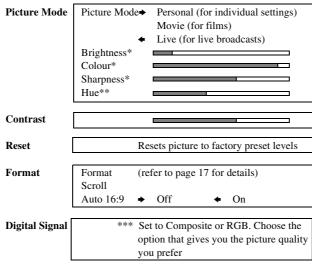


Adjusting the picture

Although the picture is adjusted at the factory, you can modify it to suit your own taste.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- 2. Press the ▲ or ➡ buttons on the remote control to select the symbol on the menu screen then press the ➡ button to enter the 'PICTURE CONTROL' menu.
- Press the ▲ or ▲ buttons to select the item on the screen you wish to adjust then press the ➡ button to confirm. For a description of the menu items and their effects, see the table below.
- 4. If you selected 'Picture Mode' or 'Format' in step 3, press the ▲ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm.
- 5. Press the \blacklozenge or \blacklozenge buttons to adjust your selected item.
- 6. As soon as you have adjusted the item, press the OK button to store the new setting.
- 7. If you selected 'Picture Mode' or 'Format' in step 3, press the
 buttons to return to the 'PICTURE CONTROL' menu.
- 8. Repeat steps 3-7 to adjust the other items.
- 9. Press the MENU button to remove the menu from the TV screen.



*Only if you select 'Personal' in 'Picture Mode'.

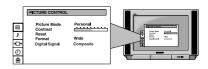
** Available for NTSC colour system only.

*** If you select the RGB option, any changes made to the Colour, Sharpness and Hue levels will have no effect.

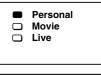
Changing picture and sound modes quickly

You can quickly change the Picture Mode or the Sound Effects Mode without entering the 'PICTURE CONTROL' or the 'SOUND CONTROL' menu screens.

- 2. Press the \clubsuit or \clubsuit buttons to select the desired mode.
- 3. Press the OK button to remove the display from the TV screen.



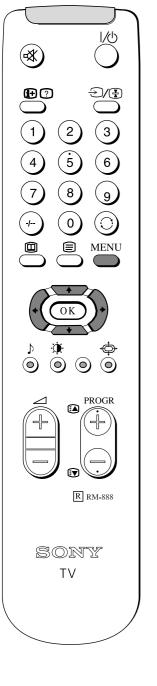
ſ	PICTURE CONTROL	
Ш ♪ +□+	 Picture Mode Contrast Reset Format Digital Signal 	Personal Wide Composite
Ð		





Adjusting the sound

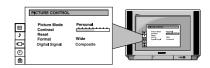
Although the sound is adjusted at the factory, you can modify it to suit your own taste.

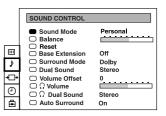


- 1. Press the MENU button on the remote control to display the menu on the TV screen.

- 4. If you selected 'Sound Mode' in step 3, press the ↑ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm.
- 5. Press the \Rightarrow or \Leftarrow buttons to adjust your selected item.
- 6. As soon as you have adjusted the item, press the OK button to store the new setting.
- 8. Repeat steps 3-7 to adjust the other items.
- 9. Press the MENU button to remove the menu from the TV screen.

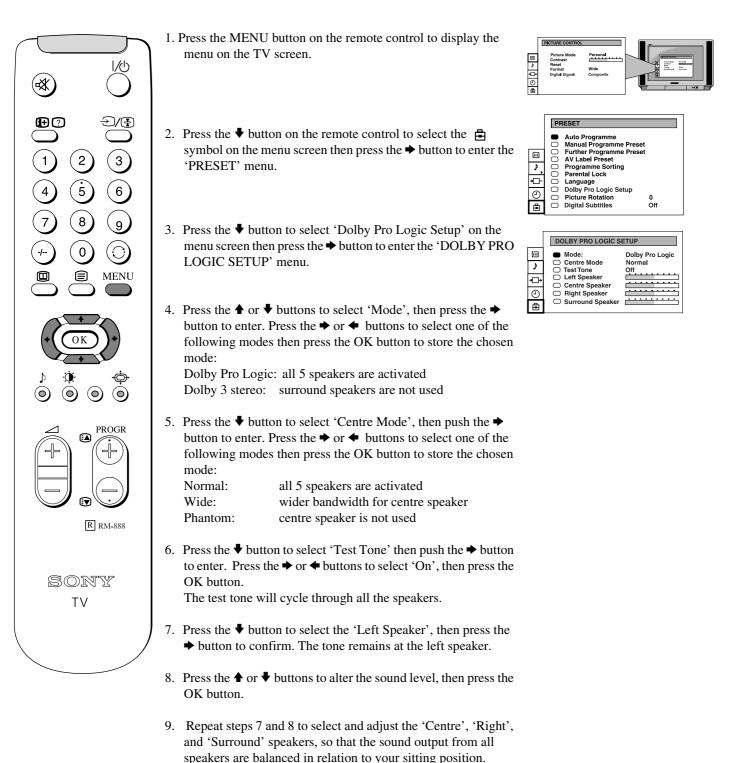
Sound Mode	 Personal Rock Jazz Pop
Balance	
Reset	Resets sound to factory preset levels
Keset	Resets sound to factory preset revers
Base Extension	Boosts base by a fixed amount
Surround Mode	Choose from the special sound effects: Pro Logic> Pseudo Stereo> Spatial> Club > Theatre> Hall> Church> Stadium> Off
Dual Sound	Stereo ← → Mono (for a stereo broadcast) A for channel 1 ← → B for channel 2 (for a bilingual broadcast)
Volume Offset	 The channel volume level can be → adjusted over a range of -12 to +12.
Headphones () Volume () Dual Sound	Stereo
Auto Surround	Set to 'On' to automatically select Pro Logic Surround sound when transmitted.





Additional TV Features Setting Up Dolby Pro Logic

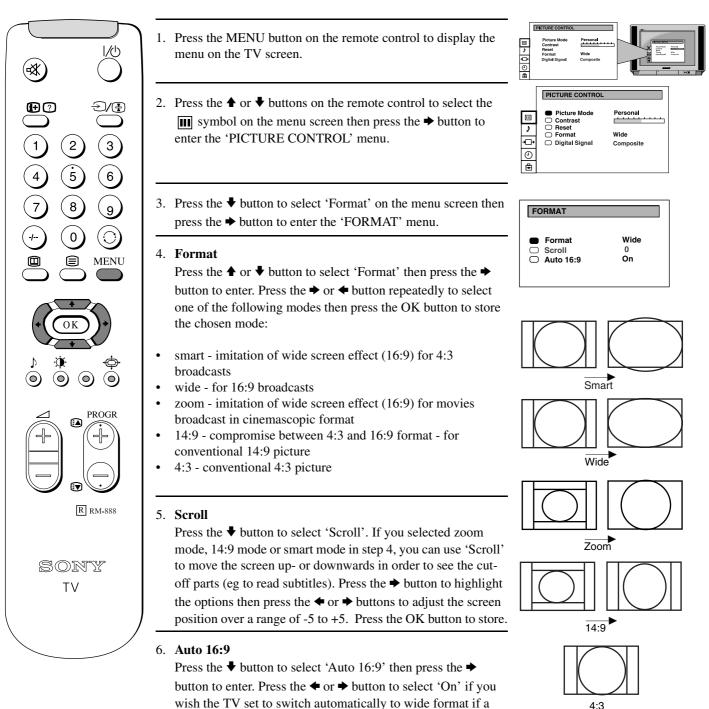
Before listening to Dolby Pro Logic encoded programmes, you can adapt the Dolby features to suit your own taste. Normally this is only required when you install the TV and the speakers, or when changing the speaker positions.



10. Press the MENU button to remove the display from the TV screen.

Changing the screen mode

Using this Screen Mode feature you can change the aspect ratio of the screen.



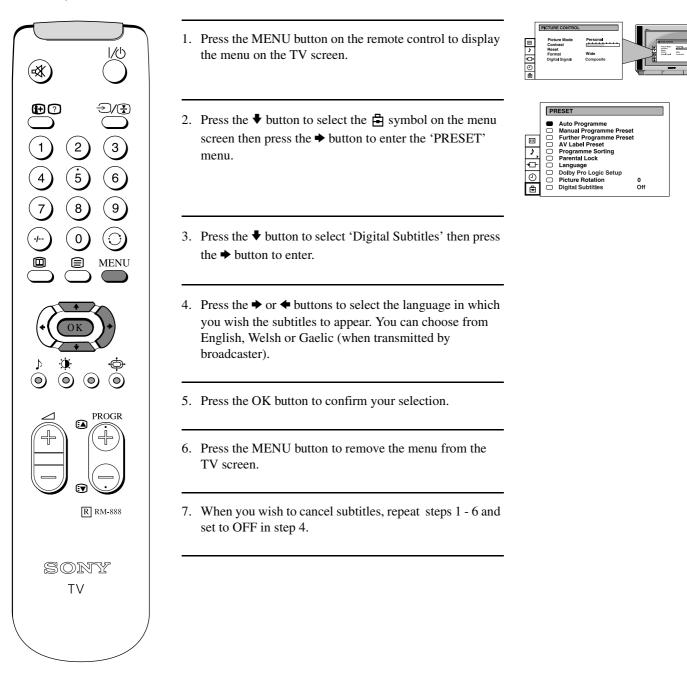
7. Press the MENU button to remove the menu from the TV screen.

OK button to store.

16:9 broadcast is detected or 'Off' for normal mode. Press the

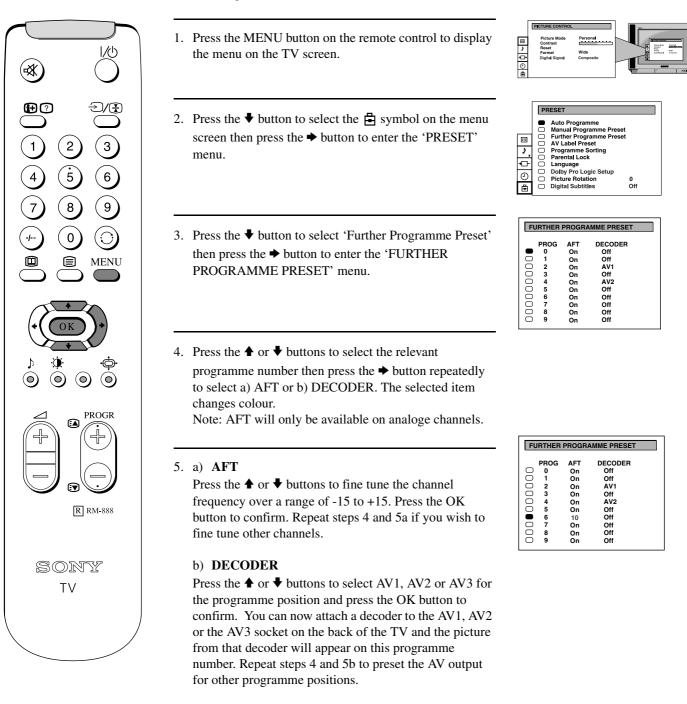
Additional TV Features Displaying subtitles for digital channels

With this feature you can view subtitles on the TV screen when watching digital channels. When watching analogue channels you can view subtitles via the teletext menu (see the teletext section of this instruction manual for details).



Using the further programme preset feature

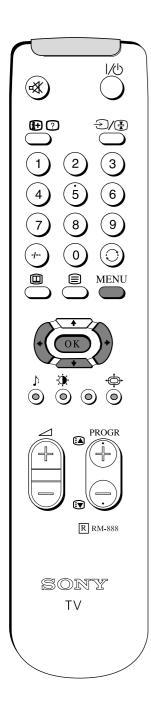
With this feature you can a) manually fine-tune the TV to obtain a better picture reception if the picture is distorted or b) preset the AV output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



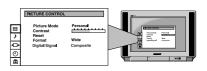
6. Press the MENU button to remove the menu from the TV screen.

Adjusting the picture rotation

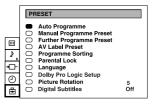
If, due to the earth's magnetic field, the picture slants, you can use this feature to readjust the picture.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ➡ button to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- Press the ♦ button to select 'Picture Rotation' then press the ◆ button to highlight the 0 (zero) on the right of the menu.
- Press the → or ← buttons to adjust the picture rotation. The adjusting range is -5 to +5.
- 5. Press the OK button to store the new range.
- 6. Press the MENU button to remove the menu from the TV screen.

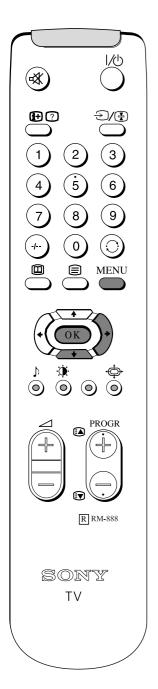




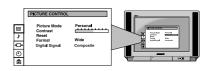


Using the parental lock

This feature enables you to prevent undesirable broadcasts appearing on the TV.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ♦ button on the remote control to select the symbol on the menu screen then press the ⇒ button to enter the 'PRESET' menu.
- 3. Press the ♦ button to select 'Parental Lock' then press the ♦ button to enter the 'PARENTAL LOCK' menu.
- 4. Press the ♥ button to select the channel you wish to block then press the OK button to confirm your selection. The symbol appears before the programme position to indicate this channel is now blocked. To unblock the channel, press the OK button again. The symbol disappears.
- 5. Repeat step 4 if you wish to block other channels.
- 6. Press the MENU button to remove the menu from the TV screen.



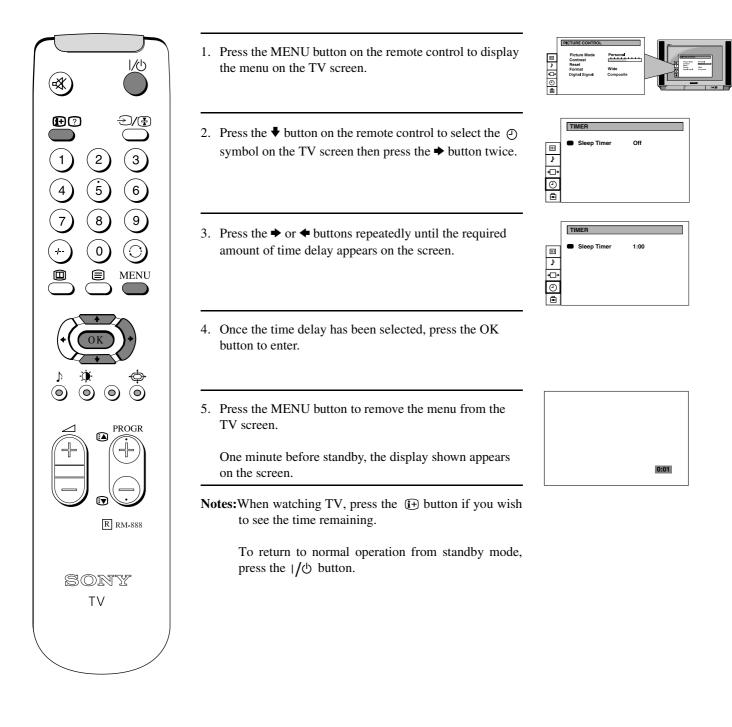
	PF	RESET	
j ← 🗉		Auto Programme Manual Programme Preset Further Programme Preset AV Label Preset Programme Sorting Parental Lock	
т С	0000	Language Dolby Pro Logic Setup Picture Rotation Digital Subtitles	0 Off

PARENTAL LOCK				
000000000	PROG 0 1 2 3 4 5 6 7 8 9	SYS I DIG DIG DIG DIG DIG DIG DIG	CHAN C 68 C 30 C 30 C 34 C 56 C 34 C 30 C 34 C 30 C 34 C 34	LABEL BBC 0 BBC T ITV C S4C Chan ITV 2 BBC C Chann Telet

PA	RENTAL	LOCK		
	PROG	SYS	CHAN	LABEL
	0	1	C 68	
	1	DIG	C 30	BBC 0
	2	DIG	C 30	BBC T
	3	DIG	C 34	ITV C
	6 4	DIG	C 56	S4C
	5	DIG	C 56	Chan
	6	DIG	C 34	TV 2
	7	DIG	C 30	BBC C
	8	DIG	C 34	Chann
	9	DIG	C 34	Telet

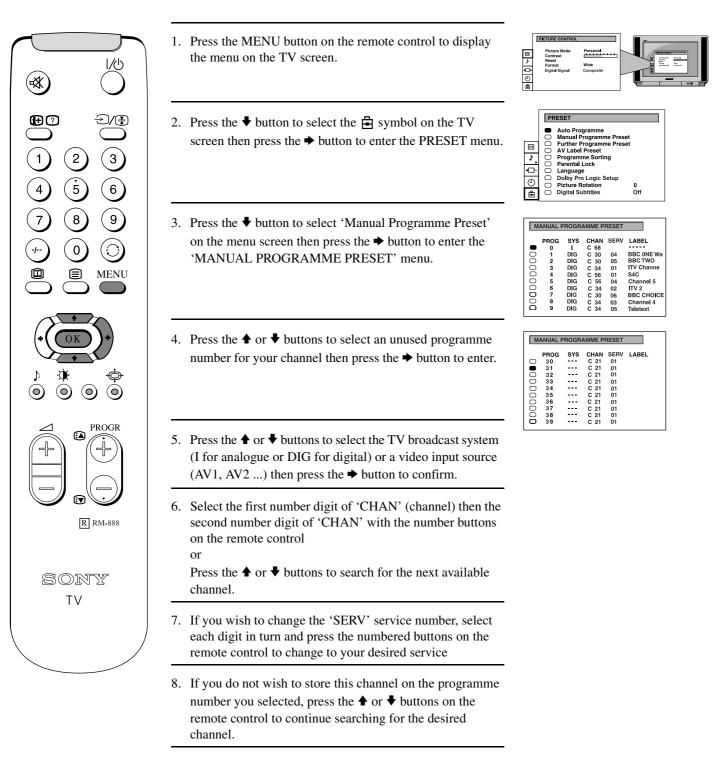
Using the sleep timer

The TV can be set to switch automatically to standby mode after a length of time chosen by you. You may set the time in 30 minute steps up to 4 hours.



Manually tuning the TV

You have already tuned the TV automatically using the instructions at the start of this manual. You can however carry out this operation manually, adding channels to the TV, one at a time.

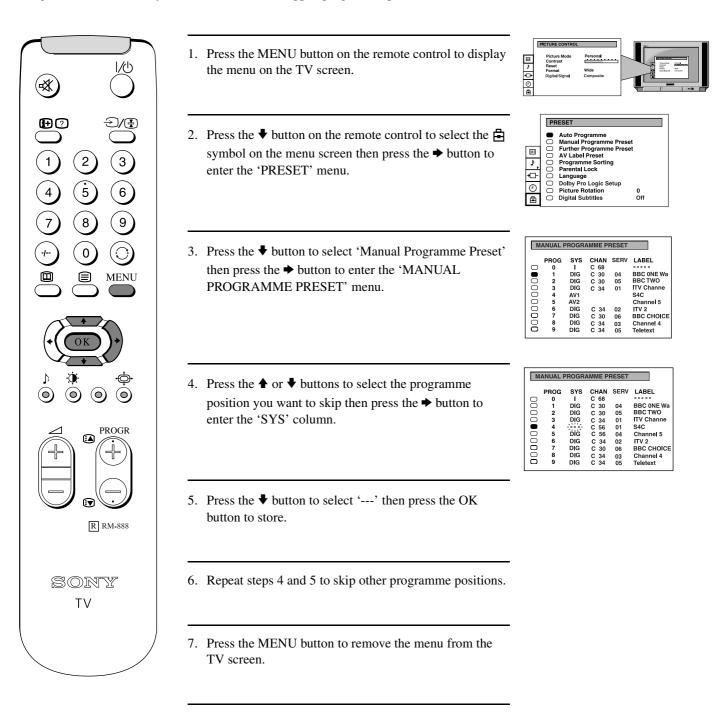


- 9. If this is the channel you wish to store, press the OK button.
- 10. Repeat steps 4-8 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

NOTE: After manually tuning in the channels you require, you can sort the channels into the order you prefer by following the procedure 'Re-arranging the TV channels' on page 13.

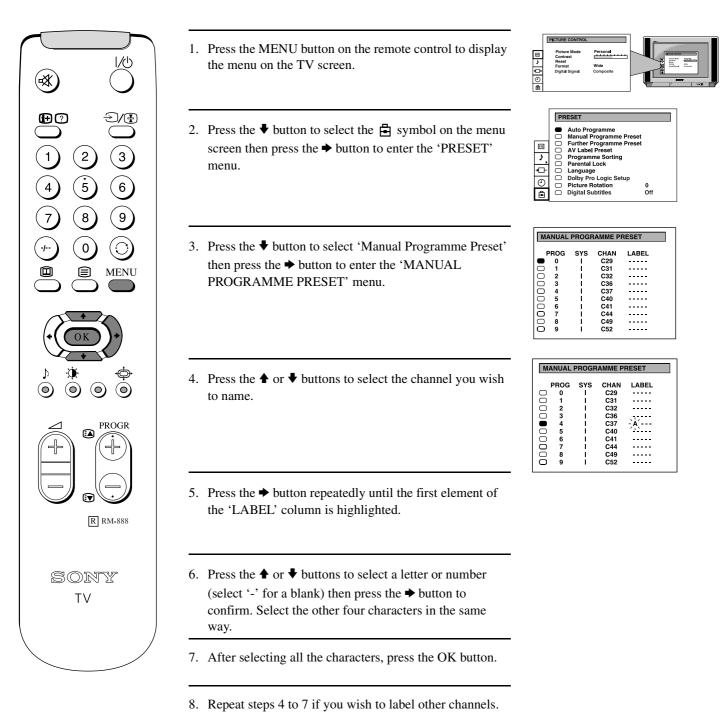
Skipping programme positions

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.



Additional TV Features Naming a channel (Analogue channels only)

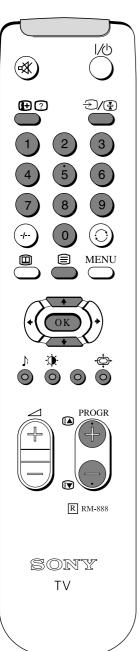
Names for channels are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).



- _____
- 9. Press the MENU button to remove the menu from the TV screen.

Viewing Standard Teletext

Teletext is an information service transmitted by most TV stations.



Selecting Teletext

- 1. When viewing analogue channels press a numbered button on the remote control to select the channel which carries the teletext service you wish to receive.
- 3. Select your required page using the numbered buttons on the remote control. If you make an error, complete the number, then reenter the correct page number.

Using Other Standard Teletext Functions

To move to the next or preceding page

Press the \bigcirc or \bowtie buttons to select the previous or next page.

To freeze a Teletext page

Press the button to freeze the page. Press again to cancel the freeze.

Revealing concealed information (eg:answers to a quiz).

Press the ⑦ button to reveal information. Press again to conceal the information.

Using colour buttons to access pages (Fastext)

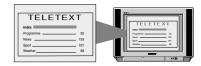
When the colour coded menu appears at the bottom of a page, press the colour buttons (red, green, yellow or blue) on the control to access the corresponding page.

Displaying TOP-Text (when available)

With TOP-Text you can access pages easily by selecting blocks or groups of pages. The block is a category (for example Sports) which includes the groups (for example Football). When TOP-Text is broadcast, a colour coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the remote control. Press these coloured buttons to displayed the desired pages.

- 1. Press the \square button to display teletext.
- Press the coloured buttons to search for the page you desire: Red: to go back to the previous page Green: to proceed to the next page. Yellow: to proceed to the first page of the next group. Blue: to proceed to the first page of the next block.

Press the 🗐 button twice to return to normal TV.

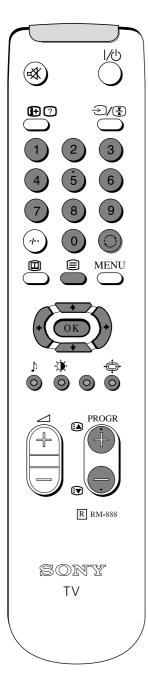






Additional TV Features Viewing Digital Teletext

Most of the digital TV channels broadcast information via teletext. This digital service includes high quality text and graphics as well as advanced navigational options. Additionally, this television set has access to a dedicated digital teletext channel.



Selecting the dedicated digital teletext channel

- 1. To view the dedicated digital teletext service, press the numbered buttons on your remote control to select the relevant channel number. If you do not know the channel number, press the OK button to look for this channel in the channel table.
- Once the teletext channel is displayed, follow the instructions on-screen to display the teletext information, then press the ♠, ♥, ♥ or ♥ buttons to guide the on-screen cursor to the required area of the screen then press the OK button to display the chosen information.
- 3. Alternatively, you can use the number and colour buttons on the remote control to directly enter the page number required and to display the various pages of text information.
- 4. If when viewing the teletext pages, you are requested to select 'OK' or 'Cancel', press the OK button for 'OK' or the) button for 'Cancel'.

Selecting teletext from the other digital channels

Normal teletext services may also be available on other digital channels. Sometimes this is indicated by a small symbol or text display on your TV screen, superimposed on the channel you are watching.

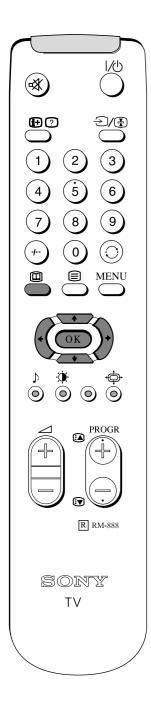
- Press the ♠, ♥, ♠ or ➡ buttons to select the symbol then press the OK button to display the chosen information.
- 2. Alternatively, you may be requested to use the number and colour buttons on your remote control to display the various pages of text information. If when viewing the teletext pages, you are requested to select 'OK' or 'Cancel', press the OK button for 'OK' or the button for 'Cancel'.
- 3. Once the text information is displayed on screen, use the ♠, ♥,
 ♠ or ➡ buttons, the colour buttons and/or the number buttons to access the chosen information.
- 4. When you have finished viewing teletext, press the 🗐 button and then select an alternative digital channel.

On other channels there may be no on-screen symbol, but you can see if there is a digital service as follows:

- 1. When watching a digital TV channel, press the 🗐 button on your remote control to display any text service which may be available.
- 2. Press the number buttons to select the various pages of information available and/or the colour buttons for the functions shown on screen.
- 3. When you have finished using the text service, press the button to return to normal TV.

Electronic Programme Guide (EPG)

The Electronic Programme Guide (EPG) is a guide which provides programme information for all digital channels supporting EPG.



Displaying the EPG

- Press the button on the remote control to display the programme guide on the TV screen. You may see the message 'EPG INFORMATION IS TEMPORARILY UNAVAILABLE' whilst waiting for the EPG to appear on screen.
- Press the ♠, ♥, or buttons on the remote control to move the on-screen cursor around the guide.
- 3. Press the in button again to remove the programme guide from the TV screen.

Viewing Information on the EPG

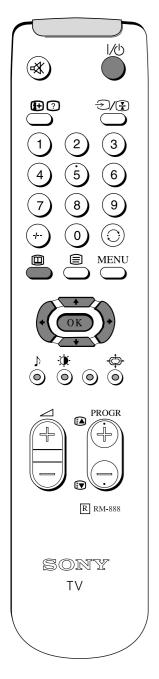
You can alter the type of information presented on the EPG by changing data in each of the EPG columns. You can for example display information for all sports programmes being shown tomorrow from 5.00pm onwards.

- 1. Press the D button on the remote control to display the EPG on the TV screen.

- Press the → button or press the OK button. The EPG will display programme information according to the date and time you selected.
- 5. Press the → button to highlight the 'programme type' column then press the ↑ or ↓ button to select ▲ News,
 I Films, X Sport, A Entertainment, Y Lifestyle,
 ◆ Education or S Childrens Programmes.
- Press the ← or → buttons or press the OK button to update the programme information accordingly. If you selected tomorrow's date, 17:00 and \$Sport, you should now be able to view all the sports programmes being shown tomorrow from 5.00 pm onwards.
- 7. Press the 💷 button on the remote control to remove the EPG from the TV screen.

Tue 22 DEC	Press O.K. to view data for all available channels		
15:20:40	Press to return to programme list.		
22 33 Wed 12 ∰ 24 10.00 25 18 € 26 31 26 31 27 3 28 Mon	BBC 2 Hernational Circket International Circket Chevrel 4 Chevrel 4	In NOW IN 2 13:35 - 18:22 1 13:35 - 18:22 1 15:30 - 17:10 1 15:50 - 16:15 1 16:15 - 16:35 1 18:15 - 16:40 1 18:30 - 17:30 1	

Tue 22 DEC	Press O.K. to view data for all available channels	
15:20:40	Press to return to programme list.	
22 Tuess 6	Image: Constraint of the second sec	



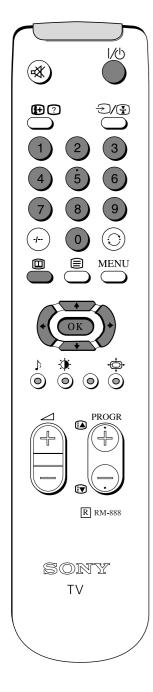
Recording Programmes

- 1 Press the 🗊 button on the remote control to display the EPG on the TV screen.
- 3 Press the OK button. If the programme is currently being broadcast, it will be displayed on your TV. If not, the 'TIMER' menu will be displayed on the TV screen.
- 4 At the bottom of the timer page you can see the symbols [Return] (back to EPG), [Event Rec] (to record a programme) or [Wake Up] (to set the programme to switch on automatically).
- 5 Press the ← or → buttons to select one of these symbols then press the OK button to confirm your selection. The EPG appears on screen with the relevant icon appearing next to the programme you selected in step 2.
- 6 If you wish to cancel a recording, select the relevant programme and press the OK button. A menu is displayed on screen requesting you to select 'Return' if you wish to continue to record the programme or 'Delete' if you wish to cancel the recording request.
- 7 After making your selection, press the OK button to confirm. The record icon disappears from the EPG if 'Delete' was selected in step 6.
- 8 If you have finished viewing programmes on your TV, press the 1/ \odot button before the timer recording starts to leave your TV in standby mode for the timer settings to be activated. If, however, you wish to continue watching other programmes after setting the timer, you can do so by changing programmes in the normal way. If you are watching another programme when the timer is due to start, a display will appear on screen advising you that, if you change channels, you automatically cancel the recording.
- 9 If you do not wish to cancel or view the recording, press the 1/O button whilst one of the displays are still on screen to leave your TV in standby mode. The standby indicator on the front of the TV will flash to show that the timer record operation is active. If, however, you choose to change programmes, you automatically cancel the recording.
- **Notes:** If your video recorder (VCR) is not Smartlinkcompatible, you will need to set your VCR to switch on and off automatically after setting the timer on the EPG. If you want to change channel once a digital programme has started recording, select the channel by using the remote control buttons as normal. The message 'STOP RECORDING' will be displayed on screen. Either do nothing to allow the recording to continue or select the required channel once more while the message is still displayed on screen. The recording will then be cancelled.

Tue 22 DEC 15:20:40	Press O.K. to view data for all available channels Press to return to programme list.	12
22	♠	
22 Tues 6 迷	International Cricket 13:35 - 18:25	12
23 Wed	4 Channel 4 Racing From Epsom 14:00 - 16:30	
vved 24 12 荣	5 C 5 International Boxing 15:30 - 17:10	🚔
Thu 17:00	BBC 1 Tennis 15:45 - 16:45	
25 Fri 18 🚔	3 HTV Motor Cross 15:55 - 16:25	
26 21	1 BBC 2 International Athletics 19:00 - 21:15	
Sat 24	1 BBC 1 Speedway 16:15 - 16:35	
27 Sun 3	3 HTV Swimming 16:15-16:40	
28 Mon	4 BBC 1 Match of the day 16:30 - 17:30	Ē

Tue 22 DEC 15:20:40			12
Vets ir	Practice		
10 British	Broadcasting Company	/ 16:30 - 17:30 Tue 2	2 Dec
as they Ju l ie Rie	embark on their care chards has to deal w	rith a terrier with behavion d encounters problems	
	es on Friday.		

Timer Recording Event will begin soon. During this event you cannot select the channel



Setting The Manual Timer

- 1 Press the the button on the remote control to display the EPG on the TV screen.
- 2 Press the ← or → button to highlight the 'programme type' column then press the ↓ button to select the timer symbol
 ④.
- 3 Press the OK button to display a screen of 9 programme slots, each one indicating that it is either free for programming, or that it has a programme already stored in it.
- 4 Press the \blacklozenge button to enter the 'programme' column.
- 5 Press the ♠ or ♥ button to select a free row then press the OK button to display the Set Timer screen. This screen asks you to confirm the date, programme number, start time and end time.
- 6 Press the \clubsuit button to select the date area then press the number buttons on the remote control to enter the date.
- 7 Press the ⇒ button to confirm the date then press the ★ or
 ♦ button to select the month.
- 8 Press the \Rightarrow button to confirm the month and to enter the start time.
- 9 Press the number buttons to enter the time when you want the timer to switch on, preferably several minutes before you set your video recorder to start recording. If you wish to switch on at 8.25 pm, enter 2025.
- 10 Press the → button to confirm the entry and to enter the switch-off time.
- 11 Press the number buttons to enter the time you want the timer to switch off, preferably after your video has stopped recording. Again, you should enter 4 digits using the 24 hour format.
- 12 Press the → button to confirm the entry and to enter the programme number.
- 13 Press the OK button to save the settings then select return and press OK button to return to the Manual Timer Setup menu.
- 14 Select another available slot if you wish to record a further programme. Otherwise, press the → button to enter the 'programme type' column then press the OK button to return to the EPG.
- 15 If you have finished viewing programmes on your TV, press the 1/ \oplus button before the timer recording starts to leave your TV in standby mode for the timer settings to be activated. If, however, you wish to continue watching other programmes after setting a timer, you can do so by changing programmes in the normal way. If you are watching another programme when the timer is due to start a display will appear on screen advising you that, if you change channels now, you automatically cancel the recording.
- 16 If you do not wish to cancel or view the recording, press the ⊥/⊕ button whilst the display is still on screen to leave your TV in standby mode. The standby indicator on the front of the TV will flash to show that the timer record operation is active. If, however, you choose to change programmes, you automatically cancel the recording.

Tue 21 15:20:		Press O.K. to view data for all available channels Press to return to programme list.		^{nels} 12
		Press to return to prog Press to return to prog BBC 2 International 4 Catanet 4 BBC 1 The Little Pel 3 HTV BBC 1 BBC 1 The Little Pel 3 BBC 1 BBC 1 BBC 3 The Little Pel 3 BBC 4 BBC 4 The Little Pel 3 BBC 4 BBC 4 The Little Pel 3 BBC 4 BBC 4 The Little Pel 3 BBC 4 BBC 4 The Little Pel 4 BBC 4 BBC 4 The Little Pel 4 BBC 4 BBC 4 The Little Pel 4 BBC 4 BBC 4 BBC 4 The Little Pel 4 BBC 4 BBC 4 BB	ramme list.	NOW 10 20 NOW 10 20 335 - 18.22 12 12 12 12 12 12 12 12 12
27 Sun 28	ر 24 3	1 BBC 1 Bailey Kippers 3 HTV Sabrina The 4 BBC 1	Teenage 10	5:15 16:35 5:15 16:40
Mon		Vets In Pract	LCB 10	3:30 - 17:30

Tue 21 15:20:		Timer event list. Press OK to view	2
22 Tues 23 Wed 24 Thu 25 Fri 26 Sat 27 Sun 28 Mon	6 <u></u> 9 12 漢 15 21 24 〕 3	Manual Timer Setup Manual Timer Setup	◙◙;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
		*	

Tue 22 DEC 15:45:40	12
Manual Timer Setup	
DATE START STOP PRO	DG NO
Return	

Timer Recording Event will begin soon. During this event you cannot select the channel

Optional Equipment

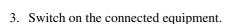
Connecting equipment to the TV

Using the following instructions, you can connect a wide range of optional equipment to your TV.

Connecting equipment to the TV

- 1. Connect your equipment to the designated TV socket.
- 2. Press the 🕤 button repeatedly on the remote control until the correct input symbol for your equipment appears on the TV screen:

Symbol	Input signals
Ð1	• Audio/video input signal through the scart connector
	• RGB input signal through the scart connector
÷2	 Audio/video input signal through the scart connector G or the phono sockets C and D
.s 2	 S video input signal through the scart connector G or the phono sockets B and D
÷3	• Audio/video input signal through the scart connector H



- 4. To return to normal TV operation, keep pressing the € button on the remote control until the TV picture appears.
- Note: To avoid picture distortion, do not connect equipment to the **B**, **C**, **D** and **G** sockets at the same time.

Additional information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **H** socket using a scart lead. If you do not have a scart lead, use the 'Manually Tuning the TV' section of this instruction manual to tune in the VCR signal to TV programme number'0'.

Connecting headphones

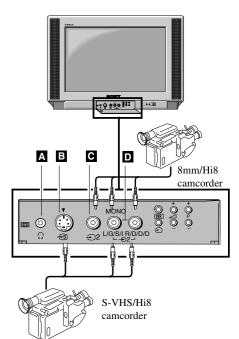
Plug in your headphones to the A socket on the front of the TV set.

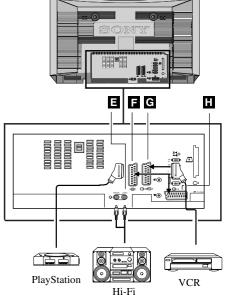
Connecting to external audio equipment

Plug in your hi-fi equipment to the \blacksquare sockets on the rear of the TV if you wish to amplify the audio output from the TV. The output level from the \blacksquare sockets can be varied by adjusting the volume of the headphones (refer to the 'Adjusting the sound' section of this manual).

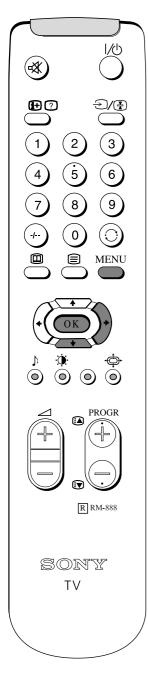
For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the $-\bigcirc 2$ input signal using the instructions on this page. Finally, refer to the 'Adjusting the sound' section of this manual and select 'A' on the sound menu screen.





Connecting equipment to the TV



Selecting the output source for the scart socket e or e

- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ♦ button to select the →□→ symbol on the menu screen then press the → button to enter the 'VIDEO CONNECTION' menu screen.
- Press the ♦ button to highlight 'TV Screen' (input source for the TV screen) or 'Output' (output source for ↔2/-∞2 or ↔3 socket) then press the ♦ button to confirm.

T	V Screen	TV, AV1, RGB, AV2, YC2, AV3
Oı	utput	TV, AV1, AV2, YC2, AV3, AUTO

5. Press the MENU button to remove the menu from the TV screen.

Smartlink

Smartlink is a direct link between your TV set and VCR.

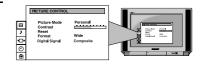
For Smartlink you need:

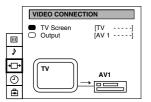
- a VCR which supports Smartlink, NexTView Link or Megalogic.
- A fully-wired 21-pin scart cable to connect your VCR to scart connector ↔3.

The features of Smartlink are:

- tuning information such as the channel overview are downloaded from the TV set to the VCR.
- direct TV recording : While watching TV you need to press just one button on the VCR to record this programme.

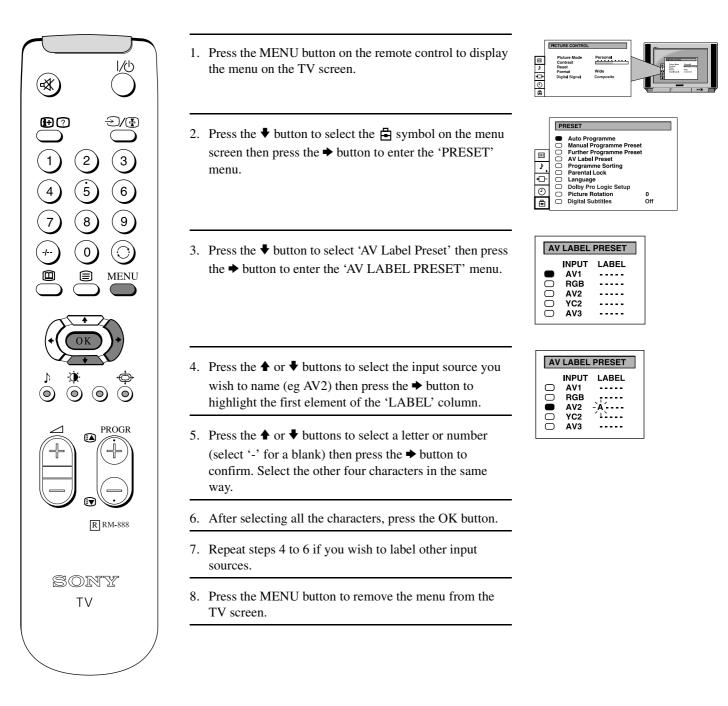
For more information on Smartlink please refer to your VCR instruction manual.





Optional Equipment Using the AV Label Preset feature

This function enables you to designate a name to the optional equipment you have connected to the sockets of this TV. This name can be up to 5 characters (letters or numbers) and will appear on screen whenever the equipment is selected for use.



Specifications

TV system I/DVB-T

Colour system

PAL NTSC 3.58, 4.43 (only Video in)

Channel coverage

UHF:B21-B69

Picture tube

KV-28DS20U FD Trinitron WIDE Approx 71cm (28inches) (Approx 66cm picture measured diagonally), 102° deflection KV-32DS20U FD Trinitron WIDE Approx 82cm (32 inches) (Approx 76cm picture measured diagonally), 102° deflection

Rear Terminals

- ⊡1	21-pin Euro connector (CENELEC standard) including audio/video
	input, RGB input, TV audio/video output.
↔ 2/ -S 2	21-pin Euro connector (CENELEC standard) including audio/video
	input, S-video input, selectable audio/video output.
⊡+ 3	21-pin Euro connector (CENELEC standard) including audio/video
	input, selectable audio/video output.
G-	Audio outputs - phono jacks
\bigcirc	Modem connection

Front Terminals

. • 2	Video input -phono jack
Ð2	Audio inputs - phono jacks
- (+ S)	S video input - 4 pin DIN
); ;	Headphones jack - minijack stereo

Sound output

Left/Right:	2x20W (music power)
Centre:	10W (music power)
Sub woofer:	20W (music power)
Surround	2x5W (music power)

Power consumption

KV-28DS20U: 222W 209W KV-32DS20U:

Dimensions (wxhxd)

KV-28DS20U:	Approx. 761x496x525mm
KV-32DS20U:	Approx. 874x563x571mm

Weight

KV-28DS20U: Approx. 44.0kg KV-32DS20U: Approx. 62.0kg

Accessories supplied

RM-888 remote control (1) IEC designated size AA battery (2) Surround Speakers (2) Centre Speaker (1)

Other features

Teletext Dolby ProLogic Surround System Smartlink

Design and specifications are subject to change without notice.

Additional Information

Troubleshooting

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

Problem	Cause
No picture , no sound	 Power off. TV in standby. Aerial disconnected
Poor or no picture (screen is dark), but good sound. No picture on any channel after digital tuning.	 Aerial disconnected Picture preset level adjustment. No digital transmissions in your area. No digital transmissions from the transmitter you are currently using. Weak signal.
Some channels are blank.	 Unsuitable aerial Scrambled/subscription-only channel. Programme used only for data (no picture or sound). Programme not being transmitted.
Standby indicator flashing.	 Programme not being transmitted. Digital mode Timer Record active (regular flash). Fault (irregular flash).
Good Picture, no sound. Poor picture quality No colour on colour programmes. Remote control does not function. Distorted picture when changing programmes or selecting Teletext.	 Volume control Wrong external mode selected on an RGB video source. Colour level setting. Batteries low. Inputs from external equipment not switched off.
Cause	Solution
Power off. TV in standby.	 Plug in the TV. Press the ① button on the front of the TV If the ① indicator is on press the 1/① button or a numbered button on the
Aerial disconnected	remote control.Check the aerial connection.
Picture level adjustment	• Select m on the TV menu system then adjust the brightness, picture and colour balance levels
No digital transmissions in your area.	• Tune in the analogue channels available using the 'Manually tuning the TV' instruction in this manual, then contact a local installer to find out when digital transmissions begin in your area.
No digital transmissions from the transmitter you are currently using. Unsuitable aerial.	 Contact a local installer to find out which transmitter you should be pointing your aerial at. Change your aerial to to cover the channels used by digital programmes
Weak signal.	 (Contact a local installer) Ensure aerial is correctly aligned to transmitter. Ensure aerial is plugged directly into the TV (not through other equipment).
Scrambled/subscription-only channel. Programme information without picture or sound.	 Upgrade to a higher gain aerial. Subscribe to pay-per-view broadcaster. See 'Skipping programme positions' section. See 'Re-arranging the TV channels' section.
Fault.	 Do not open the cabinet, refer to qualified personnel. Contact your nearest Sony Service Centre.
Volume control.	 Press the + button on the remote control. If is displayed on the screen, press the button on the remote control.
Wrong external mode selected.	 Press the ⊕ button repeatedly until the RGB symbol – ⊕ is displayed on screen.
Colour level setting.	 Select III on the TV menu system then adjust the colour setting

[•] If you continue to have these problems, have your TV serviced by qualified personnel or you can contact the Sony UK Digital HelpLine on 0870 600 1717.

• NEVER open the casing yourself.