SONY®

FD Trinitron
Colour Television

*Instruction Manual*

KV-21FT1B

NOTICE

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 ⊕ or ⊽) 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.
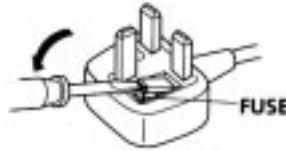
How to replace the fuse

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

• 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 ⏚ 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.

Introduction

Thank you for choosing this Sony FD Trinitron Colour Television.

Before operating the TV, please read this manual thoroughly and retain it for future reference.

- Symbols used in the manual:
  - ⚠ Informs you of possible hazards.
  - ⚠ Important information
  - ⓘ Information on a feature.
  - **1,2...** Sequence of instructions.
  - ▦ Shaded buttons on the remote control show you the buttons you have to press to follow the sequence of the instructions.
  - ☝ Informs you of the result of instructions.

Safety Information

⚠ All TV's operate on extremely high voltages. To prevent fire or electric shock, please follow the safety guidelines indicated in the blue sheet supplied.

⚠ In case of problems, have your TV serviced by qualified personnel. Never open the casing yourself.

GB

Table of Contents

Overview of Remote Control Buttons

Muting the Sound
Press to mute TV sound. press again to restore the sound.

Displaying on Screen information
Press to display all on-screen indications. Press again to cancel.

Selecting channels
Press 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, this should be corrected by entering another digit (0-9) and then selecting -/-- button again to enter the programme number of your choice.

Selecting TV mode
Press to switch off teletext or video input.

**Selecting Teletext**
Press to switch on teletext.

This button only works in Teletext mode. Function ♪ associated to this button does not work with this TV.

Selecting Picture mode
Press repeatedly to change the picture mode.

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

This button only works in Teletext mode. Function ▭ associated to this button does not work with this TV.

Selecting channels
Press to select the next or previous channel.

To Temporarily Switch Off TV
Press to temporarily switch off TV (the standby indicator ⏻ on TV lights up). Press again to switch on TV from standby mode.

To save energy we recommend switching off completely when TV is not in use.

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

Selecting input source
Press repeatedly until the desired input symbol of the source appears on the TV screen.

Back to the channel last watched
Press to watch the last channel selected (watched for at least 5 seconds).

Displaying the menu system
Press to display the menu on the TV screen. Press again to remove the menu display from the TV screen.

**Menu selection**
•*When MENU is switched on:*
  ▲ Scroll Up
  ▼ Scroll Down
  ◄ Previous menu or selection
  ► Next menu or selection
  OK confirms your selection

•*When MENU is switched off:*
  OK Shows a channel overview. Press ▼ or ▲ to select the channel and then, press again the **OK** button to watch the selected channel.
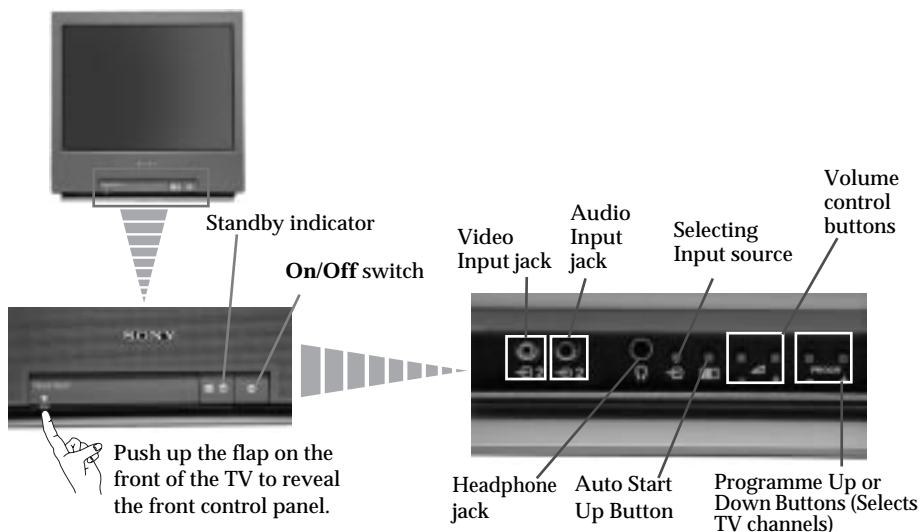
Selecting Screen format
Press to view programmes in 16:9 mode. Press again to return to 4:3 mode.
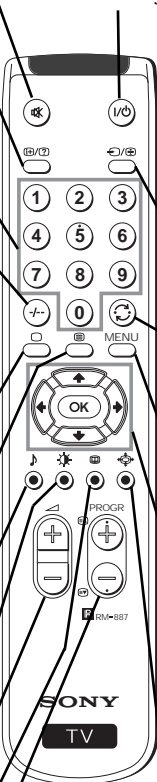
ⓘ Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to ""Teletext" section of this instruction manual.

Overview of TV Buttons

Standby indicator

On/Off switch

Video Input jack

Audio Input jack

Selecting Input source

Volume control buttons

Push up the flap on the front of the TV to reveal the front control panel.

Headphone jack

Auto Start Up Button

Programme Up or Down Buttons (Selects TV channels)

GB

Inserting Batteries into the Remote Control
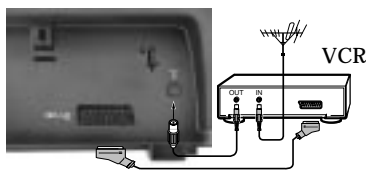
⚠ Make sure to insert the supplied batteries using the correct polarities.
Always remember you dispose of used batteries in an environmental friendly way.

Connecting the Aerial and VCR

ⓘ Connecting cables are not supplied

or

VCR
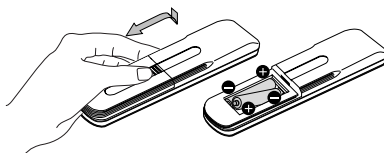
⚠ For more details of VCR connection, please refer to the section "Connecting Optional Equipment" of this instruction manual.

Scart lead is optional.

Switching On the TV and Automatically Tuning

ⓘ The first time you switch on your TV, a sequence of menu screen appear on the TV enabling you to: 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the TV, 3) search and store all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen.
However, if you need to change the language menu, change or repeat the tuning (e.g. when you move house) or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the ⊟ (Set Up). For more information, refer to the "Menu Guide" section of this instruction manual. You can also do that by pressing the Auto Start Up Button ⏭ on the TV set.

**1** Connect the TV plug to the mains socket (220-240V AC, 50Hz)
Press the Ⓞ on/off button on the TV set to turn on the TV. The first time you press this button, a **Language** menu displays automatically on the TV screen.
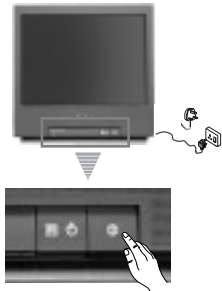
2 Press the ⬇ or ⬆ button on the remote control to select the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the selected language.

Language
English
Español
Français
Italiano
Magyar
Nederlands
Select Language:
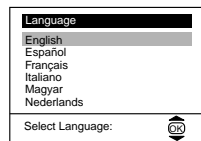
3 The **Country** menu appears automatically on the TV screen. Press the ⬇ or ⬆ button to select the country in which you will operate the TV set, then press the **OK** button to confirm your selection.

Country
-
België/Belgique
France
Ireland
Luxembourg
Nederland
Select country:
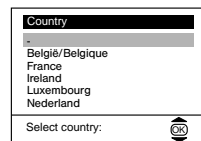
ⓘ Select "-" instead of a country
• If the country in which you want to use the TV set does not appear in the list.
• If you do not want your channels (TV Broadcast) stored in a given channel sequence starting from programme position 1.

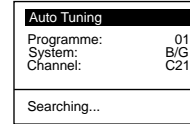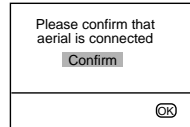**4** The Auto Tuning menu appears on the screen. Press the **OK** button to select **Yes**.

Do you want to start automatic tuning?
Yes
No
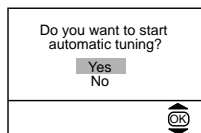
5 A new menu appears on the screen asking you to check that the aerial is connected. Ensure the aerial is connected and then press the **OK** button to start the automatic tuning.

ⓘ The TV starts to automatically search and store all available channels (TV Broadcast) for you.

⚠ This procedure could take some minutes. Please be patient and do not press any button. Otherwise the automatic tuning will not be completed.

```
Please confirm that
aerial is connected
      Confirm

                    OK
```

```
Auto Tuning
Programme:        01
System:          B/G
Channel:         C21

Searching...
```

---

6 ⓘ After all available channels are captioned and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.
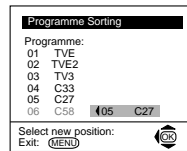
a) If you do not wish to change the channel order, go to step 7.

b) If you wish to change the channel order:

1 Press the ⬇ or ⬆ button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the ➡ button.

2 Press the ⬇ or ⬆ button to select the new programme number position for your selected channel (TV Broadcast), then press ⬅ .

3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.

```
Programme Sorting
Programme:
01    TVE
02    TVE2
03    TV3
04    C33
05    C27 ▶
06    C58
Select channel:
Exit: (MENU)          ⬆⬇
```

```
Programme Sorting
Programme:
01    TVE
02    TVE2
03    TV3
04    C33
05    C27
06    C58   ◀05    C27
Select new position:
Exit: (MENU)          ⬆⬇
```

---
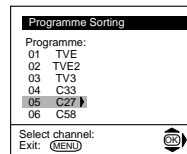
7 Press the **MENU** button to remove the menu from the screen.

MENU

👍 *Your TV is now ready for use*

Introducing and Using the Menu System

ⓘ Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

---

1 Press the **MENU** button to switch the first level menu on.

MENU

---

2 • To highlight the desired menu or option, press ↓ or ↑.

• To enter to the selected menu or option, press ➡.

• To return to the last menu or option, press ⬅.

• To alter settings of your selected option, press ↓ / ↑ / ⬅ or ➡.

• To confirm and store your selection, press **OK**.

OK

---

3 Press the **MENU** button to remove the menu from the screen.

MENU

Menu Guide

Level 1	Level 2	Level 3 / Function

Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset

Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset
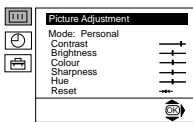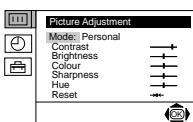
PICTURE ADJUSTMENT
The "Picture Adjustment" menu allows you to alter the picture adjustments.

To do that: after selecting the item you want to alter press ➡, then press repeatedly ↓ / ↑ / ⬅ or ➡ to adjust it and finally press **OK** to store the new adjustment.
This menu also allows you to customise the picture mode based on the programme you are watching:
↓ **Personal** (for individual settings).
↓ **Live** (for live broadcast programmes).
↓ **Movie** (for films).

• *Brightness, Colour and Sharpness can only be alterated if "Personal" mode is selected.*
• *Hue is only available for NTSC colour signal (e.g: USA video tapes).*
• *Select Reset and press OK to reset the picture to the factory preset levels.*
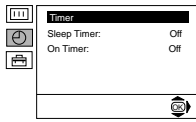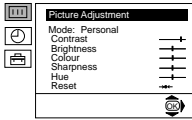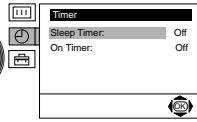
Level 1	Level 2	Level 3 / Function

SLEEP TIMER

The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby mode.

To do that: after selecting the option press ➡, then press ⬇ or ⬆ to set the time period delay (max. of 4 hours) and finally press **OK** to store.

- *While watching the TV, you can press the ⊞ button on the remote control to display the time remaining.*
- *One minute before the TV switches itself into standby mode, the time remaining is displayed on the TV screen automatically.*
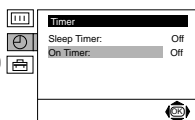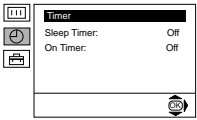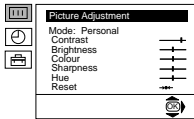
ON TIMER

The "On Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically on from standby mode.

To do that: after selecting the option press ➡, then press ⬇ or ⬆ to set the time period delay (max. 12 hours) and press **OK** to store. Finally press the standby button ⏻ on the remote control. After the selected length of time the TV switches on automatically.

- *The standby indicator ⏻ on the TV set flashes regularly to indicate that "On Timer" is active.*
- *Any loss of power will cause these settings to be cleared.*
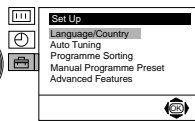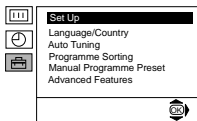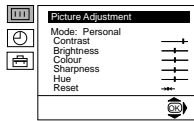
LANGUAGE / COUNTRY

The "Language/Country" option in the "Set Up" menu allows you to select the language that the menus are displayed in. It also allows you to select the country in which you wish to operate the TV set.

To do that: after selecting the option, press ➡ and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the TV and Automatically Tuning".

continued...
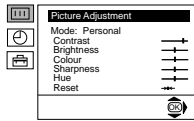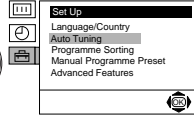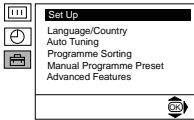
Level 1	Level 2	Level 3 / Function

AUTO TUNING

The "Auto Tuning" option in the "Set Up" menu allows you to automatically search for and store all available TV channels.

To do that: after selecting the option, press ▶ and then proceed in the same way as in TV steps 4 and 5 of the section "Switching On the TV and Automatically Tuning".

PROGRAMME SORTING

The "Programme Sorting" option in the "Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on the screen.

To do that: after selecting the option, press ▶ and then proceed in the same way as in step 6 b) of the section "Switching On the TV and Automatically Tuning".

MANUAL PROGRAMME PRESET

The "Manual Programme Preset" option in the "Set Up" menu allows you to:

a) Preset channels or a video input source one by one to the programme order of your choice. To do that:

1 After selecting the "Manual Programme Preset" option, press ▶ then with **Programme** option highlighted press ▶. Press ▼ or ▲ to select on which programme number you want to preset the channel (for VCR, select programme number "0"). Then press ◀.

2 After selecting the **System** option, press ▶. Then press ▼ or ▲ to select the TV Broadcast system (**B/G** for western European countries, **L** for France, **I** for United Kingdom or **D/K** for eastern European countries). Then press ◀.

continued...

Level 1	Level 2	Level 3 / Function

3 After selecting the **Channel** option, press ➡.
Then press ⬇ or ⬆ to select the channel
tuning ("**C**" for terrestrial channels or "**S**" for
cable channels). Next press ➡. After that,
press the number buttons to enter directly the
channel number of the TV Broadcast or the
channel of the VCR signal. If you do not
know the channel number, press ⬇ or ⬆ to
search for it. When you tune the desired
channel, press **OK** twice to store.

Repeat all the above steps to tune and store more channels.

b) Normally the automatic fine tuning (AFT) is
operating, however you can manually fine
tune the TV to obtain a better picture
reception in the case that the picture is
distorted.

To do that: while watching the channel (TV
Broadcast) you wish to fine tune, select the
AFT option and press ➡. Next press ⬇
or ⬆ to adjust the fine tuning between -15
and +15. Finally press **OK** twice to store.

c) Skip any unwanted programme numbers
when they are selected with the PROGR +/-
buttons.

To do that: Highlighting the **Programme**
option, press the **PROGR** +/- button to select
the programme number you want to skip.
When the programme you want to skip
appears on the screen, select the **Skip** option
and press ➡. Next press ⬇ or ⬆ to select
Yes. Finally press **OK** twice to confirm and
store.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

d) Label a channel using up to five characters.

To do that: Highlighting the **Programme**
option, press the **PROGR** +/- button to select
the programme number with the channel
you wish to name. When the programme you
want to name appears on the screen, select
the **Label** option and press ➡. Next
press ⬇ or ⬆ to select a letter, number or
"-" for a blank. Press ➡ to confirm this
character. Select the other four characters in
the same way. After selecting all the
characters, press **OK** twice to store.

GB

Level 1	Level 2	Level 3 / Function
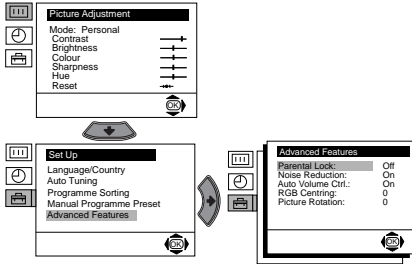
PARENTAL LOCK

The "Parental Lock" option in the "Advanced Features" menu allows you to lock the buttons of the TV set. In this way after this option is selected and the TV set is switched off, the buttons on the TV do not work and the TV only works by using the remote control buttons.

To do that: after selecting the option, press ➤. Then press ⬇ or ⬆ to select **On**. Press **OK** to confirm and store and finally press Ⅰ/🔘 on the remote control.

To cancel this function afterwards, select "Off" instead of "On" in the step above.
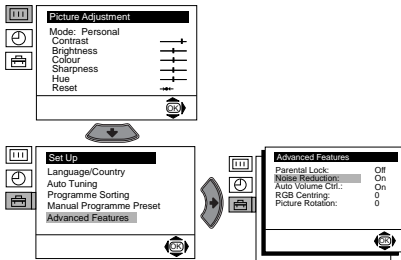
NOISE REDUCTION

The "Noise Reduction" option in the "Advanced Features" menu allows you to reduce the picture noise in case of a weak broadcasting signal.

To do that: after selecting the option, press ➤. Then press ⬇ or ⬆ to select **On**. Finally press **OK** to confirm and store.

To cancel this function afterwards, select "Off" instead of "On" in the step above.
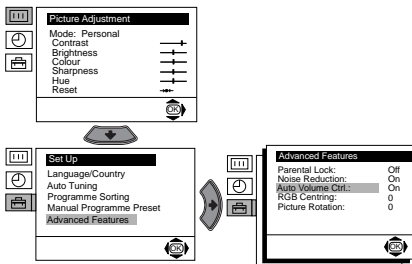
AUTO VOLUME CONTROL

The "Auto Volume Ctrl." option in the "Advanced Features" menu allows you to keep the same volume level of the channels, independent of the broadcast signal (e.g. in case of advertisement).

To do that: after selecting the option, press ➤. Then press ⬇ or ⬆ to select **On**. Finally press **OK** to confirm and store.

To cancel this function afterwards, select "Off" instead of "On" in the step above.

Level 1	Level 2	Level 3 / Function

Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset

Set Up
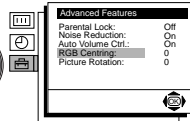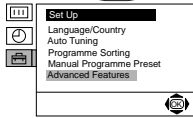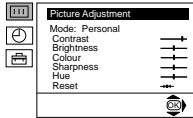Language/Country
Auto Tuning
Programme Sorting
Manual Programme Preset
Advanced Features

Advanced Features
Parental Lock: Off
Noise Reduction: On
Auto Volume Ctrl.: On
RGB Centring: 0
Picture Rotation: 0

RGB CENTRING

When connecting an RGB source, such as a "PlayStation", you may need to readjust the geometry of the picture. In that case, you can readjust it through the "RGB Centring" option in the "Advanced Features".

To do that: while watching an RGB source select the "RGB Centring" option and press ▶. Then press ▼ or ▲ to adjust the centre of the picture between −10 and +10. Finally press **OK** to confirm and store.

Picture Adjustment
Mode: Personal
Contrast
Brightness
Colour
Sharpness
Hue
Reset

Set Up
Language/Country
Auto Tuning
Programme Sorting
Manual Programme Preset
Advanced Features

Advanced Features
Parental Lock: Off
Noise Reduction: On
Auto Volume Ctrl.: On
RGB Centring: 0
Picture Rotation: 0
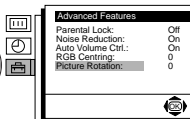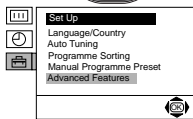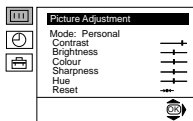
PICTURE ROTATION

Because of the earth's magnetism, the picture might slant. In this case, you can correct the pictures slant by using the option "Picture Rotation" in the "Advanced Features" menu.

To do that: after selecting the option, press ▶. Then press ▼ or ▲ to correct any slant of the picture between -5 and +5 and finally press **OK** to store.

GB

Teletext

ⓘ Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

⚠ Make sure to use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

To Switch On Teletext :
After select the channel (TV Broadcast) which carries the teletext you wish to view, press ▤ .

To Select a Teletext page:
Input 3 digits for the page number, using the numbered buttons.
- *If you have made a mistake, retype the correct page number.*
- *If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number*

To access the next or preceding page:
Press **PROGR** + (▤▲) or **PROGR** - (▤▼).

To superimpose teletext on to the TV:
Whilst you are viewing teletext, press ▤ . Press it again to cancel teletext mode.

To freeze a teletext page:
Some teletext pages have sub-pages which follow on automatically. To stop them, press ⊕/⊞ . Press it again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz):
Press ⊞/⑦ . Press it again to conceal the information.

To Switch Off Teletext:
Press ◻ .

Fastext

ⓘ Fastext service lets you access pages with one button push.
While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access the corresponding page.

Connecting Optional Equipment

ⓘ Using the following instructions, you can connect a wide range of optional equipment to your TV set. (Connecting cables are not supplied).

Connecting a VCR:
To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual. We recommend you connect your VCR using a scart lead. If you do not have a scart lead, tune in the VCR test signal to TV programme number "0". by using "Manual Programme Preset" option. (for details how to manual programme, see page 10, step a).
Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

8mm/Hi8/DVC camcorder

"PlayStation"*

VCR

C

If you have connected a decoder to a VCR which supports Smartlink feature:
Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder" option, select "On" (by using ◆ or ◆) to each scrambled channel.

Decoder

GB

* **"PlayStation"** is a product of Sony Computer Entertainment, Inc.
* **"PlayStation"** is a trademark of Sony Computer Entertainment, Inc.
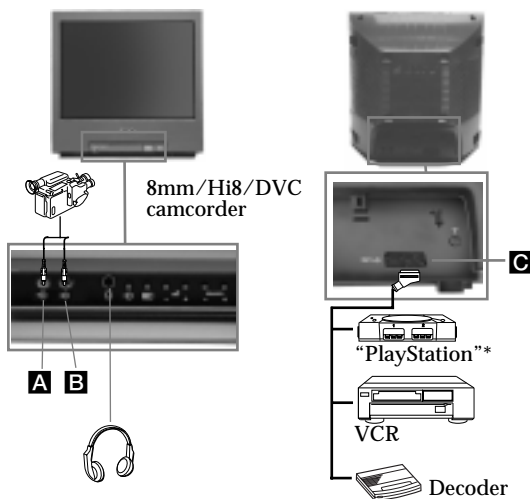
Using Optional Equipment

1 Connect your equipment to the designated TV socket, as indicated above.

2 To watch the picture of the connected equipment, press the ⊖ button repeatedly until the correct input symbol appears on the screen.

Symbol	Input Signals
⊖1	• Audio / video input signal through the Scart connector **C**
⊸	• RGB input signal through the Scart connector **C**. This symbol appears only if a RGB source has been connected.
⊖2	• Video input signal through the phono socket **A** and Audio input signal through **B**.

3 Switch on the connected equipment.

4 Press ◯ button on the remote control to return to the normal TV picture.

Specifications

TV system:
B/G/H, L, I, D/K

Colour system:
PAL, SECAM
NTSC 3.58, 4.43 (only Video In)

Channel Coverage:
VHF: E2-E12
UHF: E21-E69
CATV: S1-S20
HYPER: S21-S41
L: F2-F10, B-Q, F21-F69
I: UHF B21-B69
D/K: R1-R12, R21-R69

Picture Tube:
Flat Display FD Trinitron

Rear Terminals
↪1/⊡ 21-pin scart connector
         (CENELEC standard)
         including audio/video
         input, RGB input, TV audio/
         video output.

Front Terminals
↪2   video input – phono jack
↪2   audio input – phono jack
∩   headphones jack

Sound Output:
1 x 8 W (music power)
1 x 4 W (RMS Mono)

Power Consumption:
55 W

Standby Power Consumption:
≤ 0.55 W

Dimensions (w x h x d) :
Approx. 488 x 480 x 477 mm.

Weight:
Approx. 24 Kg.

Accessories supplied:
1 Remote Control (RM-887)
2 Batteries (IEC designated)

Other features:
• Teletext, Fastext, TOPtext
• Sleep Timer
• Wake UP Timer
• Smartlink (direct link between your TV set
  and a compatible VCR. For more
  information on Smartlink, please refer to
  the Instruction Manual of your VCR).
• TV system Autodetection.

Design and specifications are subject to change without notice.

Ecological Paper- Totally Chlorine Free ♻

Troubleshooting

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

Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the ⓘ button on the front of TV. • If the standby indicator ⏻ is on, press I/⏻ button on the remote control.
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings.
No picture or no menu information from the equipment connected to the Scart connector.	• Check that the optional equipment is on and press the ⊷ button repeatedly on the remote control until the correct input symbol is displayed on the screen.
Good picture, no sound.	• Press the ⊿ +/- button on the remote control.
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings.
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Picture slanted	• Using the menu system, select the "Picture Rotation" option in the "Advanced Features" menu to correct the picture slant.
Noisy picture when viewing a TV channel.	• Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception. • Using the menu system, select the "Noise Reduction" option in the "Advanced Features" menu and select "On" to reduce the noise in the picture.
Remote control does not function.	• Replace the batteries.
The standby indicator ⏻ on the TV flashes even though the "On Timer"	• Contact to your nearest Sony service centre.

⚠ In case of problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Sony España, S.A.