SONY®

WEGA

Plasma TV   **Operating Instructions**

KE-32TS2E
KE-42TS2E

NOTICE FOR CUSTOMERS

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.
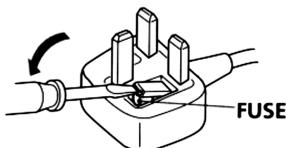
How to replace the fuse

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 the risk of electric shock, 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 the risk of fire or electric shock, 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 Flat Panel Colour Television.

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

Symbols used in the manual

⚠️ ......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 instructions.
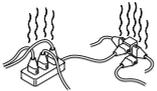
...........Informs you of the result of instructions.

Table of Contents

Safety Information

This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.

For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Disconnect from the mains.

Never push objects of any kind into the set as this could result in a fire or electric shock. Never spill liquid of any kind on the set. If any liquid or solid object does fall through, do not operate the TV. Have it checked immediately by qualified personnel.

Do not open the cabinet and the rear cover of the TV. Refer to qualified service personnel only.

For your own safety, do not touch any part of the TV, power lead or aerial lead during lightning storms.

To prevent fire or shock hazard, do not expose the TV to rain or moisture.
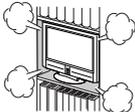
Do not cover the ventilation openings of the TV. For ventilation, leave a space of at least 10cm all around the set.

Never place the TV in hot, humid or excessively dusty places. Do not install the TV where it may be exposed to mechanical vibrations.

To prevent fire, keep inflammable objects or naked lights (eg candles) away from the TV.
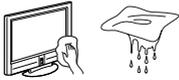
Clean the screen and cabinet with a soft, lightly dampened cloth. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine, or antistatic spray. As a safety precaution, unplug the TV before cleaning it.
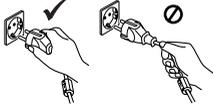
Pull out the power lead by the plug. Do not pull on the power lead itself.

Take care not to place heavy objects on the power lead as this could result in damage.
We recommend you wind any excess lead around the holders provided on the rear of the TV.

Place the TV on a secure stable stand. Do not allow children to climb on to it. Do not place the TV on its side or face up.

Unplug the power lead before moving the TV. Avoid uneven surfaces, quick steps or excessive force. If the set has been dropped or damaged, have it checked immediately by qualified service personnel.

Do not cover the ventilation openings of the TV with items such as curtains or newspapers etc.

⚠ Additional Safety Information

- This set should only be moved by two or more people. If the set needs to be transported, it should be protected to insure that it is not subject to shock, vibration or excessive force.
- The slots and openings in the cabinet and in the back and bottom are provided for the necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.
- After transporting the set 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 set. Let the moisture evaporate before using the set.
- 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.
- The screen of this display unit has an anti-reflection screen coating. To avoid screen degradation, follow the points mentioned below. Do not push on or scratch with hard objects, or throw anything at the screen. The screen may be damaged.
  - Be sure to unplug the mains lead connected to the media receiver unit from the mains before cleaning.
  - Do not touch the display panel after operating continuously for along period as the display panel becomes hot.
  - The screen of this display unit has an anti-reflection screen coating. We recommend that the screen surface is touched as little as possible.
  - Clean the screen with the supplied cleaning cloth or a soft cloth lightly moistened with a mild detergent solution.
  - Never use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine. This type of contact may result in damage to the screen surface.
- The TV set is not disconnected from the mains when the switch is in Off position. To disconnect completely the set, pull the plug from the mains.
- **Note on use in highlands**
  When used at an altitude of greater than 1900 m or 6248 feet (air pressure less than 800hPa), this Plasma Display Panel may generate a low buzzing sound as a result of the difference between the interior and exterior air pressure of the panels. This is not considered a defect and is not covered by the Sony Warranty. This buzzing sound is an inherent characteristic of any Plasma display Panel.

Corrosion

Use of this set near the seashore may subject the set to excessive salt, corrosion and internal damage and result in deterioration of the set's performance. If the set will be subjected to any of these conditions, steps should be taken to reduce the humidity and temperature of the area where the set is located.

On image retention

- If the following images are displayed for an extended period time, image retention (afterimage) in areas of the screen may result due to the characteristics of the Plasma Display Panel.
  - Black bars at the top and bottom that appear with a wide video source (Letterbox picture).
  - Black bars to the left and right that appear with a 4:3 video source (conventional TV broadcasts).
  - Video game sources
  - PC images
  - DVD on-screen menu displays
  - On-screen menus, channel numbers, etc., of connected equipment such as Set top box, Cable modem, VCR, etc.
  The risk of this is higher if the set is in "Live" mode or has a high contrast setting. This image cannot be removed once burnt onto the screen. To avoid the risk of image retention do not leave the TV set operating on such a picture, or programme for a long time, use the "Screen Saver" function or lower the contrast setting. Repeated extended daily usage of the same image, or programme can also result in this occurrence. IMAGE RETENTION IS NOT COVERED BY THE SONY WARRANTY.
- To reduce image retention, this TV set has the "Screen Saver" function. The default setting of the "Orbit" function in "Screen Saver" is "On."
- With extensive use of this TV set in 4:3 mode, the 4:3 screen area might become darker within a 16:9 panel. To avoid this problem, the "Smart" picture mode should be used.

Checking the Accessories Supplied

ⓘ See page 32.

Overview of TV Buttons

∠ (volume) +/− button

⬸ (input select) button

PROG (channel) +/− button

⎯ ∠ + − PROG +

⏻ **Power** switch

⏻ / ⏲ (standby/sleep) indicator
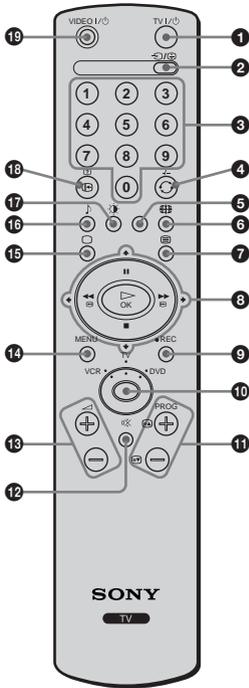
Remote control sensor
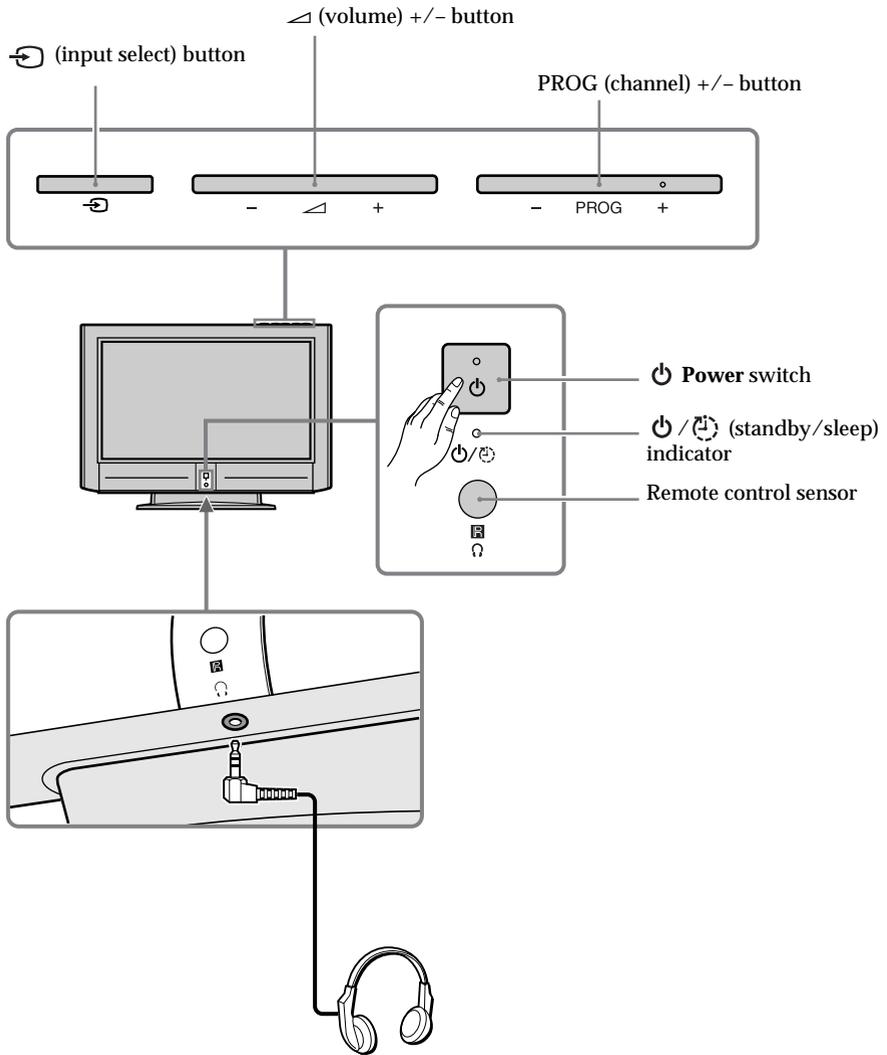
∩ Headphone jack
⚠ Use headphones with L type connector.

ⓘ If you connect headphones, the TV speakers will automatically be muted.

Overview of Remote Control Buttons

❶ **To Temporarily Switch Off TV:** Press this button to temporarily switch off the TV (the ⏻/⏾ (standby/sleep) indicator on TV lights up). Press again to switch on the TV from standby mode.

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

⚠️ After a certain period without a signal and without any button being pressed, the TV switches automatically into standby mode (Auto Shutoff, page 25).

❷ **Selecting input source:** Press this button repeatedly until the desired input symbol of the source appears on the TV screen.

❸ **Selecting channels:** If Media Selector is switched on TV or VCR, press this button to select channels.
For double-digit programme numbers, enter the second digit within 2.5 seconds.

❹ **a)If Media Selector button is switched on TV:** Press this button to watch the last channel selected (watched for at least 5 seconds).

b)If Media Selector button is switched on VCR: For Sony's VCR double-digit programme numbers, e.g. 23, press -/- - first and then the buttons 2 and 3.

❺ *This button only works in Teletext mode.*

❻ **Selecting screen format:** Press this button repeatedly to change the format of the screen. For more details, refer to chapter "Screen Control" on page 16.

❼ **Selecting Teletext:** Press this button to switch on Teletext. Teletex may not be available, depending on the country.

❽ **a)If Media Selector is switched on TV:**
When MENU is switched on, use these buttons to operate the menu system. For details refer to "Introducing and Using the Menu System" on page 13.

b)If Media Selector button is switched on VCR or DVD: Using these buttons you can control the main functions of your VCR or DVD.

❾ **Recording button:** If Media Selector is switched to VCR, press this button to record programmes.

❿ **Media Selector:** With this remote control you can operate not only this TV but also the main functions of your VCR or DVD.
Switch on the device you want to operate and next press this button repeatedly to select the VCR, TV or DVD. A green light will be lit momentarily.

⚠️ An initial set up is required to synchronise this remote control to your VCR or DVD. It will depend on the Brand of those products. For more details, refer to chapter "Remote Control Configuration for VCR/DVD" on page 31.

⓫ **Selecting channels:** Press these buttons to select the next or previous channel.

⓬ **Muting the Sound:** Press this button to mute TV sound. Press again to restore the sound.

⓭ **Adjusting TV volume:** Press these buttons to adjust the volume of the TV.

⓮ **Displaying the menu system:** Press this button to display the menu on the TV screen. Press again to remove the menu display from the TV screen.

⓯ **Selecting TV mode:** Press this button to switch off teletext or video input.

⓰ **Selecting Sound effect:** Press this button repeatedly to change the sound effect.

⓱ **Selecting Picture mode:** Press this button repeatedly to change the picture mode.

⓲ **Displaying on-screen information:** Press this button to display all on-screen indications. Press again to cancel.

⓳ **VCR or DVD on/off:** Press this button to switch your VCR or DVD on or off.

ℹ️ Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operations. For more details, please refer to the "Teletext" section on page 27 of this instruction manual.

Inserting Batteries into the Remote Control

⚠ Make sure you insert the supplied batteries using the correct polarity.
Always remember to dispose of used batteries in an environmentally friendly way.
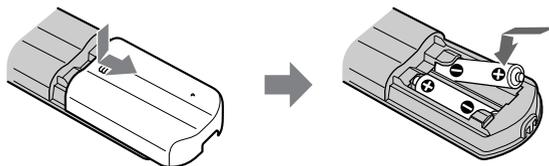
Connecting the Aerial and VCR

ⓘ • Use the supplied AC cable.
• Use the supplied coaxial cable for aerial connection.
• Other connecting cables are not supplied.

Connect the supplied coxial cable.

Connect the supplied AC cable.

or

VCR

Scart lead is optional.
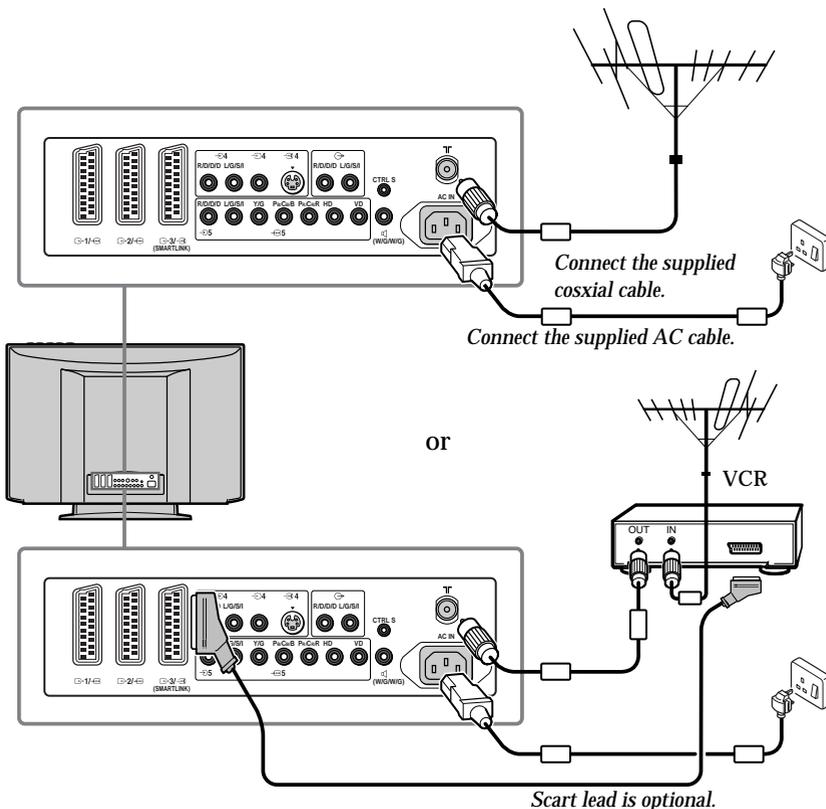
ⓘ For more details of VCR connection, please refer to the section "Connecting Optional Equipment" on page 28 of this instruction manual.

Preventing the TV from Falling Down

Attach the supplied bracket to the rear of the TV, and pass a sturdy cord or chain through it to attach it to a wall or pillar. Consult your dealer when attaching the bracket, since the screws for the bracket also hold the rear cabinet in a place.

1 Remove one of the screws attached at the rear of the TV.

⚠ Do not remove both screws at the same time as these screws secure the rear cabinet. Never use the TV with the screws removed.
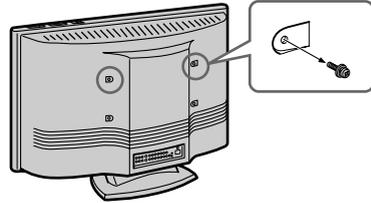
2 Attach the supplied bracket with the screw.

⚠ Be sure to use the screw that attaches the rear cabinet. A different screw may damage the TV and result in electric shock.
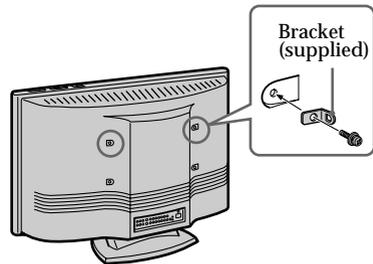
Bracket (supplied)

3 Repeat steps 1 and 2 to attach the other bracket.

4 Attach a sturdy cord or chain securely to each bracket on the rear of the TV.

Attach the sturdy cord or chain (not supplied) securely.
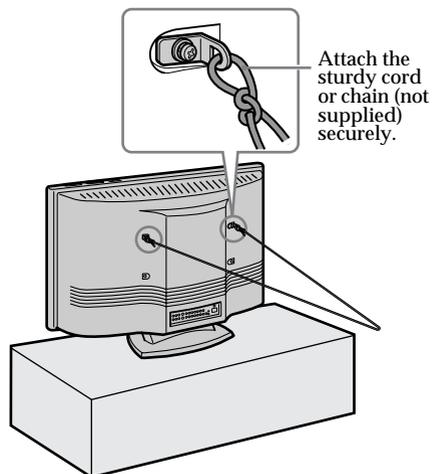
5 Fix the cord or chain to a wall or pillar.
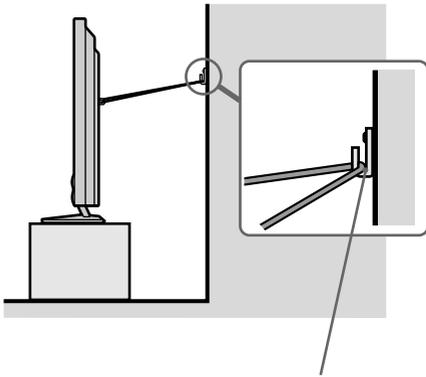
Side view   Rear view
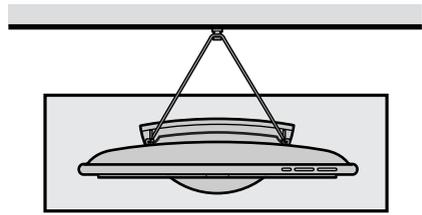
Screw a hook (not supplied) to the wall or pillar
securely.

Switching On the TV and Automatically Tuning

ⓘ The first time you switch on your TV, a sequence of menu screens 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 any of these settings at a later date, you can do that by selecting the appropriate option in the 🖼️ (Set Up) menu.

1 Connect the TV plug to the mains socket (220-240V AC, 50Hz)
The first time that the TV set is connected, it is usually turned on. If the TV is off, press the ⏻ **Power** switch on the TV set to turn on the TV.
The first time you switch on the TV, a **Language** menu displays automatically on the TV screen.
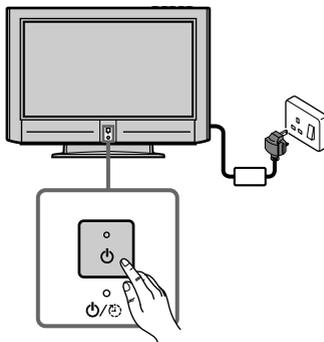
2 Press the ⬇ or ⬆ button on the remote control to select the language, then press the **OK** button to confirm your selection.
From now on all the menus will appear in the selected language.
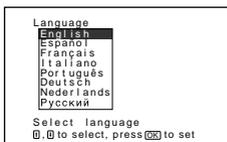
3 The **Country** menu appears automatically on the TV screen.
Press the ⬇ or ⬆ button to select the country in which you will operate the TV set, then press the **OK** button to confirm your selection.

ⓘ • If the country in which you want to use the TV set does not appear in the list, select "-" instead of a country.
• In case of changing the country selection (including "-"), the next procedure of Auto Tuning always should be done after that.

4 The **Auto Tuning** menu appears on the screen.
Press the **OK** button to select **Yes**.
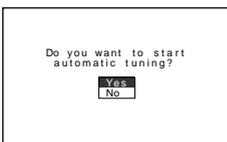
5 The TV starts to automatically search and store all available broadcast channels for you.

⚠️ This procedure could take some minutes. Please be patient and do not press any buttons, otherwise the automatic tuning will not be completed.
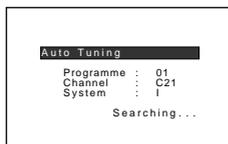
⚠️ If no channels were found during the auto tuning process then a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 8) and press **OK**. The auto tuning process will start again.

```
Auto Tuning
    Programme :   01
    Channel   :   C21
    System    :   I
            Searching...
```

```
    No channel found.
   Please connect aerial
        Confirm
```
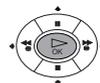
6 ℹ️ After all available channels are captured and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.
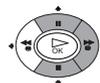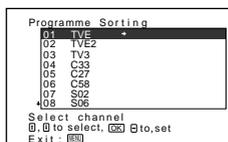
a) If you wish to keep the broadcast channels in the tuned order, go to step 7.

```
Programme Sorting
 01  TVE
 02  TVE2
 03  TV3
 04  C33
 05  C27
 06  C58
 07  S02
 08  S06
Select channel
  to select,  to,set
Exit :
```

b) If you wish to store the channels in a different 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
 01  TVE
 02  TVE2
 03  TV3
 04  C33
 05  C27    01   TVE
 06  C58
 07  S02
 08  S06
Select new position
  to select, press  to return
Exit :
```
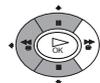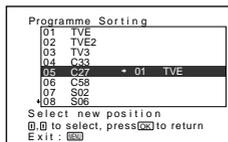
7 Press the **MENU** button to remove the menu from the screen.

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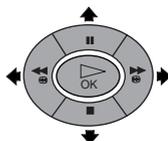
3 Press the **MENU** button to remove the menu from the screen.

MENU

▣ Picture Adjustment

```
Picture Adjustment
Mode            : Personal1
Contrast
Brightness
Colour
Sharpness
NR                     Low
Dynamic Pict :          On
Colour Tone :         Cool
0,0 to select , ⬛,0 to
enter adj. menu
```

```
Picture Adjustment
Mode            : Personal1
Contrast
Brightness
Colour
Sharpness
NR                     Low
Dynamic Pict :          On
Colour Tone :         Cool
0,0 to select , 0,⬛ to
set
```
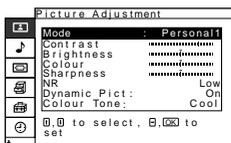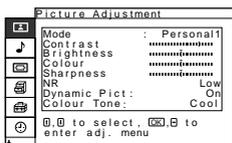
The "Picture Adjustment" menu allows you to alter the picture adjustments.

To do this:
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 quality for the "Movie," "Personal1," and "Personal2" modes based on the programme you are watching.

Mode	**Live** (for enhanced picture contrast and sharpness). **Standard** (for a picture with contrast to suit your room's lighting conditions.). **Movie** (for a finely detailed picture). **Personal1** (for your own custom settings). **Personal2** (for your own custom settings).
Contrast	Press ⬇ / ⬅ to reduce picture contrast Press ⬆ / ➡ to enhance picture contrast
Brightness	Press ⬇ / ⬅ to darken the picture Press ⬆ / ➡ to brighten the picture

Colour	Press ↓ / ← to decrease colour intensity. Press ↑ / → to increase colour intensity.

ⓘ **Colour** cannot be adjusted for the RGB input.

Sharpness	Press ↓ / ← to soften the picture. Press ↑ / → to sharpen the picture.

NR (Noise Reduction)	**Off/Low/Mid/High** Select to reduce the noise level of all connected equipment. It is most effective on the signal from the VHF/UHF jack.

ⓘ You cannot adjust **NR** (Noise Reduction) for equipment connected to the RGB input.

Dynamic Pict	**On/Off** Select to enhance the picture contrast.

Colour Tone	**Cool/Normal/Warm/User1/User2/User3** Select to give bright colours a red tint (Setting is variable from **Cool** to **Warm**). Select **User1**, **User2**, or **User3** to customise the **Colour Tone** by adjusting **Red Gain**, **Green Gain**, and **Blue Gain** (tint), and store them in memory.
	Name Set: Select to name your personal settings. Press ↓ / ↑ / ← / → to select the letter, then press **OK**. Finally press ↓ / ↑ / ← or → to select the word "End" on the screen and press **OK** to store. • *To correct the letter, select ← on the screen to go back and press **OK**.* • *For a blank, select ☐ on the screen and press **OK**.*

Colour Correct	**On/Off** Select to emphasise reds and blues.

ⓘ **Colour Correct** cannot be adjusted for the RGB input.

Gamma Correct	**High/Mid/Low** Select to adjust the balance between bright and dark areas of the picture.

Reset	**Cancel/OK** Select **OK** to reset the picture to the factory preset levels.

ⓘ Each option cannot be adjusted when **Mode** is set to **Live** or **Standard**.

♪ Sound Adjustment

```
Picture Adjustment
┌──┐
│🖼│  Mode          :  Personal1
├──┤  Contrast        ▪▪▪▪▪▪▪▪▪▪▪▪
│♪ │  Brightness      ▪▪▪▪▪▪▪▪▪▪▪▪
├──┤  Colour          ▪▪▪▪▪▪▪▪▪▪▪▪
│💬│  Sharpness       ▪▪▪▪▪▪▪▪▪▪▪▪
├──┤  NR                      Low
│🗄│  Dynamic Pict :          On
├──┤  Colour Tone:          Cool
│🕐│ ┌───────────────────────────┐
└──┘ │ ▯,▯ to select , ⊠,▭ to   │
     │ enter adj. menu          │
     └───────────────────────────┘
```

```
Sound Adjustment
┌──┐
│🖼│  Effect         :        Off
├──┤  Treble          ▪▪▪▪▪▪▪▪▪▪▪▪
│♪ │  Bass            ▪▪▪▪▪▪▪▪▪▪▪▪
├──┤  Balance         ▪▪▪▪▪▪▪▪▪▪▪▪
│💬│  Dual Sound   :       Mono
├──┤  Auto Volume :        Off
│🗄│  Reset
├──┤ ┌───────────────────────────┐
│🕐│ │ ▯,▯ to select , ⊠,▭ to   │
└──┘ │ enter adj. menu          │
     └───────────────────────────┘
```

```
Sound Adjustment
┌──┐
│🖼│  Effect         :        Off
├──┤  Treble          ▪▪▪▪▪▪▪▪▪▪▪▪
│♪ │  Bass            ▪▪▪▪▪▪▪▪▪▪▪▪
├──┤  Balance         ▪▪▪▪▪▪▪▪▪▪▪▪
│💬│  Dual Sound   :       Mono
├──┤  Auto Volume :        Off
│🗄│  Reset
├──┤ ┌───────────────────────────┐
│🕐│ │ ▯,▯ to select , ▭,⊠ to   │
└──┘ │ set                      │
     └───────────────────────────┘
```
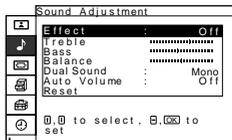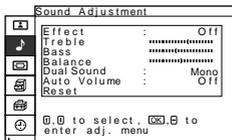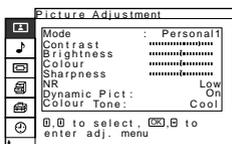
The "Sound Adjustment" menu allows you to alter the sound adjustments.

To do this:
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.

Effect	**Off** (no effect). **Natural** (enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*). **Dynamic** ("BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism). **TS (TruSurround******)** (for surround sound (for example, DVD software). It produces a virtual sound effect.)

ⓘ * The "BBE High Definition Sound system" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and BBE Symbol are trademarks of BBE sound.
** TruSurround and the (●) symbol are trademarks of SRS Labs, Inc. Trusurround technology is incorporated under license from SRS Labs, Inc.

Treble	Press ⬇ / ⬅ to decrease higher-pitched sounds. Press ⬆ / ➡ to increase higher-pitched sounds.
Bass	Press ⬇ / ⬅ to decrease lower-pitched sounds. Press ⬆ / ➡ to increase lower-pitched sounds.
Balance	Press ⬇ / ⬅ to emphasise the left speaker. Press ⬆ / ➡ to emphasise the right speaker.
Dual Sound	**Mono/Stereo** For a stereo broadcast, select **Stereo** or **Mono**. **Mono/A/B** For a bilingual broadcast, select **A** for sound channel 1, **B** for sound channel 2 or **Mono** for mono channel if available.
Auto Volume	**On/Off** Volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of advertisements).
Reset	**Cancel/OK** Select **OK** to reset the sound to the factory preset.

⬚ Screen Control
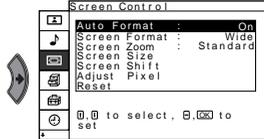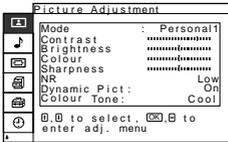
The "Screen Control" menu allows you to alter the screen adjustments.

Auto Format	The "Auto Format" option allows you to automatically change the aspect ratio of the screen.
	To do this: After selecting the option, press ➡. Then press ⬇ or ⬆ to select **On** (if you wish the TV set to automatically switch the screen format according to the broadcast signal) or **Off** (if you wish to keep your preference) and finally press **OK** to store.

ⓘ Even if you have selected **On** or **Off** in the "Auto Format" option, you can always modify the format of the screen by pressing ⬚ repeatedly on the remote control.

Screen Format	The "Screen Format" option allows you to modify the format of the screen.
	To do this: After selecting the option, press ➡. Then press ⬇ or ⬆ to select the desired screen format and finally press **OK** to store.

Smart: Imitation of wide screen effect for 4:3 broadcast.

Smart

4:3: Conventional 4:3 picture size, full picture information.

4:3

14:9: Compromise between 4:3 and 16:9 picture size.

14:9

Zoom: Wide screen format for letterbox movies.

Zoom

Wide: For 16:9 broadcast.

Wide

ⓘ If parts of the top and bottom of the screen are cut off, press ⬇ or ⬆ to adjust the position of the image on the screen (e.g. to read subtitles).

Screen Zoom	The "Screen Zoom" option allows you to enlarge the picture with the centre position fixed (only when **Screen Format** is set to **Wide**). **To do this:** After selecting the option, press ➧ . Then press ➥ or ➤ to select from **Standard** (normal size), × **2** (doubled), × **3** (tripled), or × **4** (quadrupled) and finally press **OK** to store.

ⓘ **Screen Zoom** can be adjusted only when **Screen Format** is set to **Wide**.

Screen Size	The "Screen Size" option allows you to adjust the size of the picture for each Screen Format. **To do this:** **1** After selecting the option, press ➧ . **2** Press ➥ / ➤ / ◆ or ➧ to adjust each option, then press **OK** to store. Press ➤ to enlarge the Screen Size vertically. Press ➥ to shrink the Screen Size vertically. Press ◆ to shrink the Screen Size horizontally. Press ➧ to enlarge the Screen Size horizontally.

ⓘ **Screen Size** cannot be adjusted horizontally when **Screen Format** is set to **Smart**.

Screen Shift	The "Screen Shift" option allows you to adjust the position of the picture for each Screen Format. **To do this:** **1** After selecting the option, press ➧ . **2** Press ➥ / ➤ / ◆ or ➧ to adjust each option, then press **OK** to store. Press ➤ to move the screen up. Press ➥ to move the screen down. Press ◆ to move the screen to the left. Press ➧ to move the screen to the right.

ⓘ **Screen Shift** cannot be adjusted horizontally when **Screen Format** is set to **Smart**.

|	
Adjust Pixel	The "Adjust Pixel" option allows you to adjust the picture from an RGB piece of equipment. **To do this:** **1** After selecting the option, press ➡. **2** Press ⬇ or ⬆ to select the following option. **Auto Adjust:** Select **OK** to automatically make the best picture for the input signal. Note that it may not be adjusted perfectly depending on the input signal condition or picture pattern. In this case, perform **Auto Adjust** again. **Dot phase:** Adjust between 00-63 when part of a displayed text or image is not clear. **Total H Pixel** (Total Horizontal Pixel)**:** Adjust when the whole picture is not clear as a whole. **Reset:** Reset to the factory settings.

ⓘ **Adjust Pixel** is only available for the RGB input signal connected to ⊷ 5 connector and the "AV5 Input" option is set to "RGB" in the "Features" menu.

Reset	**Cancel / OK** Select **OK** to reset "Screen Zoom", "Screen Size" and "Screen Shift" options to the factory preset

🗐Features
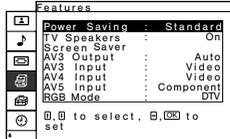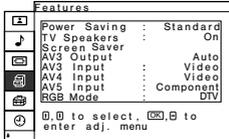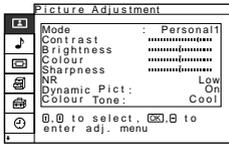
The "Features" menu allows you to alter various adjustments of this TV's features.

Power Saving	The "Power Saving" option allows you to reduce the power consumption of this TV. **To do this:** After selecting the option, press ➡. Then press ⬇ or ⬆ to select **Reduce** and finally press **OK** to store.

ⓘ • If you turn off the TV whilst the Power Saving mode is on, the mode stays on next time you turn on the TV.
• If you select the "Movie," "Personal1" or "Personal2" mode on the "Picture Adjustment" menu (page 13), you can adjust the picture option even if the Power Saving mode is set to on. Note that power consumption will still increase if you increase the **Contrast** or **Brightness**.

TV Speakers	The "TV Speakers" option allows you to control the sound output of the TV's speakers when using your audio system speakers. **To do this:** After selecting the option, press ➡. Then press ⬇ or ⬆ to select **Off** and finally press **OK** to store. Sound of the TV is not output through the TV's speakers.

Screen Saver	The "Screen Saver" option allows you to reduce image retention.
	
	To do this:
	1 After selecting the option, press ➡.
	   Move the picture position to reduce image retention.
	
	   Orbit: Select **On** to move the position. If you select **On**, set **Orbit Range** and **Orbit Cycle**.
	   Orbit Range: Select the moving range from **Large**, **Mid** (Middle), and **Small**.
	   Orbit Cycle: Select the moving time from **10sec**, **30sec**, **1min**, and **5min**.
	
	2 Press **OK** to store.

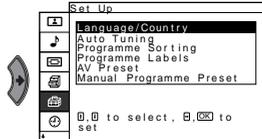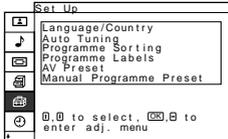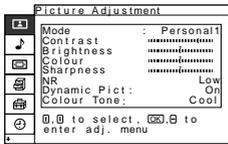|	
AV3 Output	The "AV3 Output" option allows you to select the source to be output from the Scart connector ↻3/ ⊖. You can record from this Scart any signal coming from the TV or from external equipment connected to the other Scart connectors.
	(i) If your VCR supports SmartLink, this procedure is not necessary.
	To do this: After selecting the option, press ➡. Then press ⬇ or ⬆ to select the desired output signal: **Auto, TV, AV1, AV2,** or **AV4.**
	⚠ • If you select **Auto**, the output signal will always be the same one that is displayed on the screen. • If you have connected a decoder to the Scart ↻3/ ⊖ or to a VCR connected to this Scart, please remember to change back the "AV3 Output" to **Auto** for correct unscrambling. • When **AV3 Output** is set to **Auto**, the signal input through the AV5 input and the RGB signal are not output from the Scart connector ↻3/ ⊖.
AV3 Input/ AV4 Input/ AV5 Input	The "AV3 Input," "AV4 Input," and "AV5 Input" options allow you to select which jack the TV receives the input signal from; Video or S Video for AV3 Input and AV4 Input, and Component or RGB for AV5 input.
	To do this: After selecting the option, press ➡. Then press ⬇ or ⬆ to select the desired jack and finally press **OK** to store.
RGB Mode	Select the "RGB Mode" option if equipment which outputs RGB signal is connected to the Y/G, P$_B$/C$_B$/B, P$_R$/C$_R$/R jacks of the ⊡5.
	To do this: After selecting the option, press ➡. Then press ⬇ or ⬆ to select the connected equipment:
	DTV for a digital tuner with RGB signal, or **Others** for other RGB equipment.
	(i) DTV is the digital broadcast format standardised in the United States, and there are several signal formats, such as 480i, 575i, 480p, 575p, 720p, or 1080i (depending on the country).

🗃 Set Up

```
Picture Adjustment
┌─────────────────────────────────┐
│ 🖼  Mode          :  Personal1  │
│ ♪   Contrast      ▪▪▪▪▪▪▪▪▪▪▪    │
│     Brightness    ▪▪▪▪▪▪▪▪▪      │
│ 📺  Colour        ▪▪▪▪▪▪▪▪▪      │
│     Sharpness     ▪▪▪▪▪▪▪▪▪      │
│ 🗄  NR                    Low    │
│     Dynamic Pict:          On    │
│ 🗃  Colour Tone:         Cool    │
│─────────────────────────────────│
│ 🕐  🔘,🔘 to select, OK,🔲 to   │
│     enter adj. menu             │
└─────────────────────────────────┘
```

The "Set Up" menu allows you to alter various options of this TV.

```
Set Up
┌─────────────────────────────────┐
│ 🖼                              │
│ ♪   Language/Country           │
│     Auto Tuning                │
│ 📺  Programme Sorting          │
│     Programme Labels           │
│ 🗄  AV Preset                  │
│     Manual Programme Preset    │
│ 🗃                              │
│─────────────────────────────────│
│ 🕐  🔘,🔘 to select, OK,🔲 to  │
│     enter adj. menu            │
└─────────────────────────────────┘
```

```
Set Up
┌─────────────────────────────────┐
│ 🖼                              │
│ ♪   Language/Country           │
│     Auto Tuning                │
│ 📺  Programme Sorting          │
│     Programme Labels           │
│ 🗄  AV Preset                  │
│     Manual Programme Preset    │
│ 🗃                              │
│─────────────────────────────────│
│ 🕐  🔘,🔘 to select, 🔲,OK to  │
│     set                        │
└─────────────────────────────────┘
```

Language/ Country	The "Language/Country" option 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 this:
	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" on page 11.
Auto Tuning	The "Auto Tuning" option allows you to automatically search and store all available TV channels.
	To do this:
	After selecting the option, press ➧ and then proceed in the same way as in the steps 4 and 5 of the section "Switching On the TV and Automatically Tuning" on page 11.
Programme Sorting	The "Programme Sorting" option allows you to change the order in which the channels (TV Broadcast) appear on the screen.
	To do this:
	After selecting the option, press ➧ and then proceed in the same way as in the step 6 b) of the section " Switching On the TV and Automatically Tuning" on page 12.
Programme Labels	The "Programme Labels" option allows you to name a channel using up to five characters (letter or numbers).
	To do this:
	1 After selecting the option, press ➧ , then press ▼ or ▲ to select the programme number with the channel you wish to name.
	2 Press ➧ . Press ▼ / ▲ / ◀ / ➧ to select the letter, then press **OK**. Finally press ▼ / ▲ / ◀ or ➧ to select the word "End" on the screen and press **OK** to store.
	• *To correct the letter, select ← on the screen to go back and press **OK**.*
	• *For a blank, select ☐ on the screen and press **OK**.*

AV Preset	The "AV Preset" option allows you to designate a name to the external equipment you have connected to the sockets of this TV.

To do this:

1 After selecting the option, press ➡ , then press ⬇ or ⬆ to select the input source you wish to name. Then press ➡ .

2 A label automatically appears in the label column:

    a) If you want to use one of the predefined labels (**CABLE**, **GAME**, **CAM**, **DVD**, **VIDEO**, or **SAT**), press ⬇ or ⬆ to select the desired label and finally press **OK** to store.

    b) If you want to set a different label, select **Edit** and press ➡ . Then with the first element highlighted, press ⬇ / ⬆ / ⬅ / ➡ to select the letter, then press **OK**. Finally press ⬇ / ⬆ / ⬅ or ➡ to select the word "End" on the screen and press **OK** to store.
        • *To correct the letter, select ⬅ on the screen to go back and press OK.*
        • *For a blank, select ☐ on the screen and press **OK**.*

Manual Programme Preset	The "Manual Programme Preset" option allows you to:

A) Preset Channels or a video input source, one by one, in the programme order of your choice.

To do this:

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 **OK**.

2 ⓘ The following option is only available depending on the country you have selected in the "Language/Country" menu.

After selecting the **System** option, press ➡ . Then press ⬇ or ⬆ to select the TV Broadcast system (**B/G** for Oceanian countries, Malaysia, Singapore, Thailand or middle east, etc., **I** for Hong Kong or **L** for France. Then press **OK**.

3 After selecting the **Channel** option, press ➡ . Then press ⬇ or ⬆ to select the channel tuning (**S** for cable channels or **C** for terrestrial channels). Next press ➡ . After that, press the number buttons to directly enter 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.** With the **Confirm** option highlighted, press **OK**. Next press ⬇ to select **OK** and finally press **OK** to store.

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

B) Label a channel using up to five characters.

To do this:

Highlighting the **Programme** option, press the **PROG** +/- 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 ➧ / ➧ / ➧ / ➧ to select the letter, then press **OK**. Finally press ➧ / ➧ / ➧ or ➧ to select the word "End" on the screen and press **OK** to store.

*• To correct the letter, select ← on the screen to go back and press **OK**.*
*• For a blank, select ▢ on the screen and press **OK**.*

C) Normally the automatic fine tuning (AFT) will give the best possible picture, however you can manually fine tune the TV to obtain a better picture if the picture is distorted.

To do this:

Whilst 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 and press **OK**.With the **Confirm** option highlighted, press **OK**. Next press ➧ to select **OK** and finally press **OK** to store.

D) Skip any unwanted programme numbers when they are selected with the **PROG** +/- buttons.

To do this:

Highlighting the **Programme** option, press the **PROG** +/- 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** and press **OK.** With the **Confirm** option highlighted, press **OK**. Next press ➧ to select **OK** and finally press **OK** to store.

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

E) View and record scrambled channels when using a decoder connected to the Scart ➔3/ ➔ either directly or via a VCR.

🛈 This option is only available depending on the country you have selected in the "Language/Country" menu.

To do this:

Select the **Decoder** option and press ➧ . Next press ➧ or ➧ to select **On** and press **OK**. With the **Confirm** option highlighted, press **OK**. Next press ➧ to select **OK** and finally press **OK** to store.

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

⏱Timer

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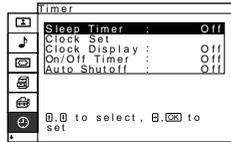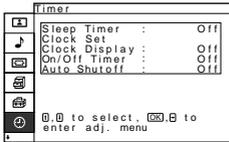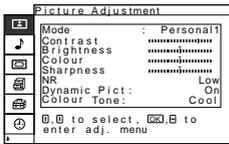
Sleep Timer The "Sleep Timer" option allows you to select a time period for the TV to switch itself automatically into the standby mode.

To do this:
After selecting the option press ➡, then press ⬇ or ⬆ to set the time period delay (max. of 2 hours) and finally press **OK** to store.

ⓘ Whilst watching the TV, you can press the ⊞ button on the remote control to display the time remaining.

Clock Set The "Clock Set" option allows you to set the current time. The error range of the built-in clock is ± 30 seconds a month.

To do this:
1 After selecting the option, press ➡.
2 Press ⬇ or ⬆ to set the hour, then press ➡.
3 Press ⬇ or ⬆ to set the minute, then press ➡.
4 Press **OK** at a time signal. The clock starts.

Clock Display The "Clock Display" option allows you to display the clock on the screen.

To do this:
After selecting the option, press ➡, then press ⬇ or ⬆ to select **On** and finally press **OK**.

ⓘ The clock display turns off automatically 5 minutes after it is turned on.

On/Off Timer	The "On/Off Timer" option allows you to turn the TV on and off at a specified time automatically. To use this function, set the clock in advance.

⚠️ When using this function, do not turn off the TV with the ⏻ **Power** switch on the TV as the On Timer function will not work use the Standby function instead.

To do this:

1 After selecting the option, press ▶ .
2 Press ▼ or ▲ to select **On**, then press ▶ .
3 Press ▼ or ▲ to select **Timer Mode**, then press ▶ .
4 Press ▼ or ▲ to select the desired Timer Mode:

    Off: Select to set the time to turn off the TV.

    On: Select to set the time to turn on the TV.

    On/Off: Select to set the time to turn on and off the TV.
Press **OK** to confirm your selection.

5 Press ▼ or ▲ to select **Off Time** or **On Time**, then press ▶ .
6 Set the time.
If you select O**n/Off** in step 4, repeat steps 5 and 6 to set both **Off Time** and **On Time**.

7 Finally press **OK** to store.

ⓘ To turn the TV on and off at a specified time everyday, set **Repeat** to **On** after step 2, then go to step 3.

*To cancel this function afterwards, select **Off** instead of **On** in step 2 above.*
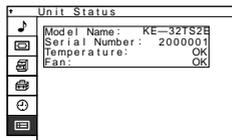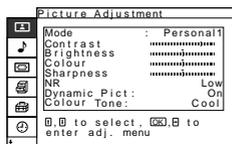
Auto Shutoff	The "Auto Shutoff" option allows you to set the TV to change to the standby mode automatically if there is no broadcast or input signal through the connected equipment.

To do this:
After selecting the option, press ▶ , then press ▼ or ▲ to select the time period and finally press **OK** to store.

▦ Unit Status

```
Picture Adjustment
Mode          :  Personal1
Contrast         ▪▪▪▪▪▪▪▪▪▪▪▪▪▪
Brightness       ▪▪▪▪▪▪▪▪▪▪▪▪▪▪
Colour           ▪▪▪▪▪▪▪▪▪▪▪▪▪▪
Sharpness        ▪▪▪▪▪▪▪▪▪▪▪▪▪▪
NR                        Low
Dynamic Pict :             On
Colour Tone :            Cool
◱,◰ to select , ▣,◱ to
enter adj. menu
```

```
Unit Status
Model Name :    KE—32TS2B
Serial Number :  2000001
Temperature :          OK
Fan :                  OK
```

The "Unit Status" menu allows you to check the status of this TV.

Model Name	Model name of this TV.
Serial Number	Serial number allocated for each TV.
Temperature	If **NG** flashes, follow the procedure in A) below.
Fan	If **NG** flashes, follow the procedure in B) below.

If **NG** lights in red, and the ⏻/⏾ (standby/sleep) indicator flashes, press the ⏻ **Power** switch on the TV to turn off the TV, and disconnect from the mains.

A) **If "NG" appears in the "Temperature" column**

Install the TV in a cool location so as to reduce the temperature of the TV.

If the ventilation openings are blocked

The ventilation openings must never be blocked or covered. Install the TV in a well ventilated place to allow adequate air circulation.

Make sure that the ⏻/⏾ (standby/sleep) indicator stops flashing. If the ⏻/⏾ (standby/sleep) indicator continues to flash, consult your nearest Sony service centre.

B) **If "NG" appears in the "Fan" column**

Consult your nearest Sony service centre.

Teletext
(This service may not be offered, depending on the country)

ⓘ 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 you use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

```
┌─────────────────────┐
│    TELETEXT         │
│ Index ▬▬▬▬▬         │
│ Programme ━━━━━  25  │
│ News ━━━━━━━━━ 153   │
│ Sport ━━━━━━━━ 101   │
│ Weather ━━━━━━━  98  │
└─────────────────────┘
```

To Switch On Teletext :
After selecting the TV channel which carries the teletext service 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 this case, input another page number.*

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

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., answers to a quiz)
Press ⊞/② . Press it again to conceal the information.

To Switch Off Teletext:
Press ▢ .

Fastext

ⓘ Fastext service lets you access pages with one push of a button.
Whilst 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).
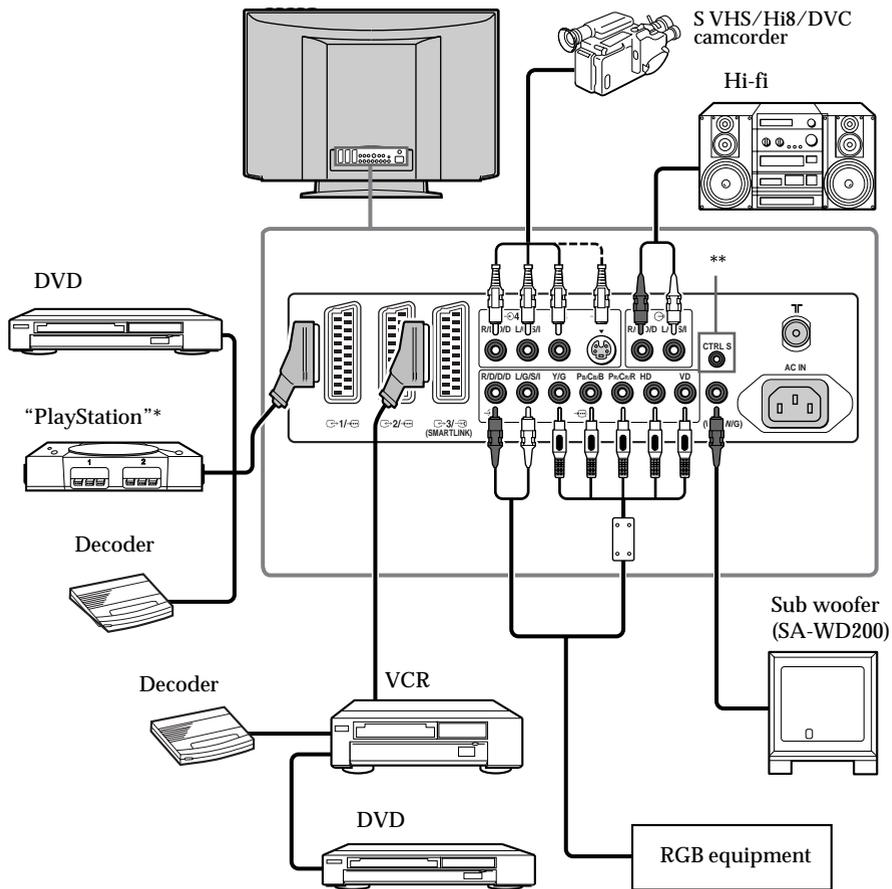

* **"PlayStation"** is a product of Sony Computer Entertainment, Inc.
* **"PlayStation**" is a trademark of Sony Computer Entertainment, Inc.
** To control other Sony equipment with the TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack of the TV with the CONTROL S cable.

ⓘ Only when the TV is turned on, or the ⏻/⏾ (standby/sleep) indicator lights up in red. When the TV is turned off, you cannot use this function.
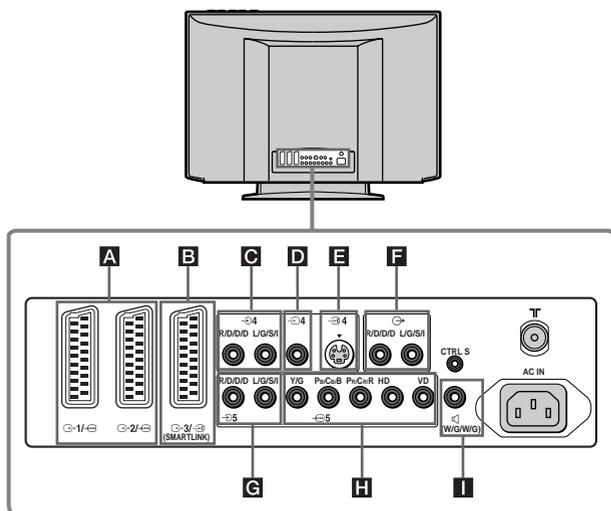
To avoid noisy picture, do not connect external equipment to connectors **D** and **E** at the same time.

Connecting a VCR:

To connect a VCR, please refer to the section "Connecting the Aerial and VCR" on page 8 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 the TV programme number "0" by using the "Manual Programme Preset" option. (for details of how to manually programme these presets, see page 22, step A).

Refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Connecting a VCR that supports Smartlink:

Smartlink is a direct link between the TV set and the VCR. For more information on Smartlink, please refer to the instruction manual of your VCR.

If you use a VCR that supports Smartlink, please connect the VCR by using a Scart lead to the Scart ⟳3/⟲ **B**.

If you have connected a decoder to the Scart ⟳3/⟲ or through a VCR connected to this Scart:

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder*" option, select "On" (by using ♦ or ♠). Repeat this option for each scrambled signal.

* This option is only available depending on the country you have selected in the "Language/Country" menu.

Connecting to external Audio Equipment:

Plug in your Hi-Fi equipment to the audio output sockets **F** if you wish to amplify the audio output from TV. Next, using the menu system, select the "Features" menu and set "TV Speakers" to "Off."

For a sub woofer

Plug in your sub woofer to the ⊲ W/G/W/G output jack **I** using a monaural audio cable.

Using Optional Equipment

1 Connect your equipment to the designated TV socket, as indicated on page 28.

2 Switch on the connected equipment.

3 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 or ⊖2	• Audio / video input signal through the Scart connector **A**.
⊶	• RGB input signal through the Scart connector **A**. This symbol appears only if a RGB source has been connected.
⊖3	• Audio / video input signal through the Scart connector **B**.
⊖3	• S Video input signal through the Scart connector **B**.
⊖4	• Video input signal through the phono socket **D** and Audio input signal through **C**.
⊖4	• S Video input signal through the S Video input jack **E** and Audio signal through **C**.
⊶5	• RGB input signal through the Y/G, $P_B/C_B/B$, $P_R/C_R/R$ jacks and HD, VD jacks **H**, and Audio input signal through **G**.

⚠️ • If your equipment is connected to the Scart connector ⊖3/ ⊖ , or ⊖4/ ⊖ 4, or ⊶5 jacks, select the input signal format for the connected equipment by using "AV3 Input," "AV4 Input," or "AV5 Input" option in the "Features" menu (page 20).
  • If your equipment is connected to the ⊶5 jacks and outputs an RGB signal, select **RGB Mode** in the "Features" menu (page 20).

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

For Mono Equipment

Connect the phono plug to the L/G/S/I socket and select ⊖4 or ⊖ 4 input signal using the instructions above. Finally, refer to the "Sound Adjustment" section of this manual and select "Dual Sound" "A" on the sound menu screen.

Remote Control Configuration for VCR/DVD

This remote control is set by default to operate basic functions of this Sony TV, Sony DVD and most Sony VCRs when batteries are initially installed. To control other VCRs and DVDs of other major brands and certain Sony VCR models, please complete the following steps:

- Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to code table included with the remote control for latest code set.

1 Press the Media Selector button on the remote control repeatedly until the required VCR or DVD green light is lit.

> If Media Selector is in the TV position, code numbers will not be stored.

2 Before the green light goes out, press and hold the yellow button for approximately 6 seconds until the green light starts flashing.

3 Whilst the green light is flashing, enter all three digits of the code for your brand using the number buttons on the remote control.

> If your selected code is entered correctly, all three green lights will be lit momentarily.

4 Turn on your VCR or DVD and check that the main functions work.

> - If your device is not working or some of the functions do not work please check you entered the correct code set or try the next code listed against the brand.
> - Your brand codes may be lost if weak batteries are not replaced within a few minutes. To reset your DVD or VCR code number please repeat the above steps. A small label is attached inside the battery door to allow you to record your brand codes.
> - Not all brands are covered and not all models of every brand may be covered.
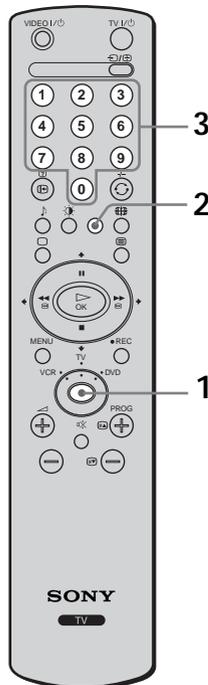
VCR Brand List

Brand	Code
SONY (VHS)	301, 302, 303, 308, 309
SONY (BETA)	303, 307, 310
SONY (DV)	304, 305, 306
AIWA	325, 331, 351
AKAI	326, 329, 330
DAEWOO	342, 343
GRUNDIG	358, 355, 360, 361, 320, 351
HITACHI	327, 333, 334
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349
LG	332, 338
LOEWE	358, 355, 360, 361, 320, 351
MATSUI	356, 357
ORION	328
PANASONIC	321, 323
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359
SAMSUNG	339, 340, 341, 345
SANYO	335, 336
SHARP	324
THOMSON	319, 350
TOSHIBA	337

DVD Brand List

Brand	Code
SONY	001
AIWA	021
DENON	018, 027, 020, 002
GRUNDIG	009, 028, 023, 024, 016, 003
HITACHI	025, 026, 015, 004
JVC	006, 017
KENWOOD	008
LG	015, 014
LOEWE	009, 028, 023, 024, 016, 003
MATSUI	013, 016
ONKYO	022
PANASONIC	018, 027, 020, 002
PHILIPS	009, 028, 023, 024, 016, 003
PIONEER	004
SAMSUNG	011, 014
SANYO	007
SHARP	019, 027
THOMSON	012
TOSHIBA	003
YAMAHA	018, 027, 020, 002

SONY

TV

Specifications

TV system:
Depending on your country selection:
B/G/H, D/K, L, I

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
D/K: R1-R12, R21-R69
L: F2-F10, B-Q, F21-F69
I: UHF B21-B69
B/G (AUS):VHF: 0-12, 5A, 9A
            UHF: 20-69
            CATV: S01-S03, S1-S44
B/G (NZ):   VHF: 1-11
            UHF: 21-69
            CATV: S01-S03, S1-S41

Screen size (measured diagonally):
KE-32TS2E: 32 inches approx. 82 cm. measured
            diagonally
KE-42TS2E: 42 inches approx. 107 cm.
            measured diagonally

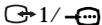**Panel System:**
Plasma Display panel

Display resolution:
KE-32TS2E: 852 dots (horizontal) x 1024 lines
            (vertical)
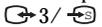KE-42TS2E: 1024 dots (horizontal) x 1024 lines
            (vertical)

Rear Terminals:

⮎1/ ⊡
  21-pin Scart connector (CENELEC
  standard) including audio/video input,
  RGB input, TV audio/video output.

⮎2/ ⊡
  21-pin Scart connector (CENELEC
  standard) including audio/video input,
  RGB input, TV audio/video output.
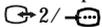
⮎3/ ⊝ (SMARTLINK)
  21-pin Scart connector (CENELEC
  standard) including audio/video input, S
  video input, selectable audio/video output
  and Smartlink interface.

⮌
  audio outputs (Left/Right) - phono jacks

⊝ 4
  S video input (4-pin mini DIN):
  Y: 1 Vp-p, 75-ohms unbalanced, sync
     negative
  C: 0.286 Vp-p (Burst signal), 75 ohms

⊝ 4
  video input (phono jack):
  1 Vp-p, 75-ohms unbalanced, sync negative

⊝ 4
  audio input (phono jacks):
  500 m Vrms (100% modulation),
  Impedance: 47 kilo ohms

⊡ 5
  Y: 1 Vp-p, 75 ohms, 0.3V negative sync
  P$_B$: 0.7 Vp-p, 75 ohms
  P$_R$: 0.7 Vp-p, 75 ohms
  or
  G: 0.7 Vp-p, 75 ohms, Sync on Green
  B: 0.7 Vp-p, 75 ohms, Sync on Green
  R: 0.7 Vp-p, 75 ohms, Sync on Green
  or
  G: 0.7 Vp-p, 75 ohms, non Sync on Green
  B: 0.7 Vp-p, 75 ohms, non Sync on Green
  R: 0.7 Vp-p, 75 ohms, non Sync on Green
  HD:1-5 Vp-p
  VD: 1-5 Vp-p

⊝ 5
  audio input (phono jacks)
  500 m Vrms (100% modulation),
  Impedance: 47 kilo ohms

◁ SUB WOOFER: phono jack

CTRL S: minijacks

Front Terminals:
⌒ headphones jack

Sound Output:
KE-32TS2E: 2 x 7 W (RMS), 2 x 7 W (music power)
KE-42TS2E: 2 x 9 W (RMS), 2 x 9 W (music power)

Power Consumption:
KE-32TS2E: 300 W
KE-42TS2E: 415 W

Standby Power Consumption:
KE-32TS2E: 3.0 W
KE-42TS2E: 3.0 W

Dimensions (w x h x d) :
KE-32TS2E: Approx. 856 x 627 x 132 mm.
KE-42TS2E: Approx. 1,056 x 764 x 124 mm.

Weight:
KE-32TS2E: Approx. 25.5 Kg.
KE-42TS2E: Approx. 37.0 Kg.

Accessories supplied:
One Remote Control (RM-932)
Two batteries (R6 type)
Two Brackets
One coaxial cable
One AC Cable (Type C-4)
One AC Cable (Type O)
One AC Cable (Type BF)
  ⚠ AC Cables Type O and Type BF may not be
     supplied depending on the country.
One Cleaning cloth

**Design and specifications are subject to
change without notice.**

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Other features:
- Teletext, Fastext, TOPtext (depending on the country)
- Sleep 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
- Auto Format

Troubleshooting

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

Problem	Possible remedies
No picture	
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the ⏻ Power switch on the front of the TV. • If the ⏻/🕒 (standby/sleep) indicator is on, press **TV** ⏻ button on the remote control.
The TV turns off automatically. (The TV enters the standby mode.)	• Check that the Sleep Timer is activated (page 24). • Check that the On/Off Timer is activated (page 25). • Check that Auto Shutoff is activated (page 25).
No picture or no menu information from 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. • Check the connection between the optional equipment and the TV. • If you connect the optional equipment to the Scart connector ⤳3/⤺, set "AV3 Input" in the "Features" menu to "S Video" (page 20).
Poor picture/Unstable picture.	
Double images or ghosting.	• Check aerial/cable connections. • Check the aerial location and direction.
Only snow and noise appears on the screen.	• Check if the aerial is broken or bent. • Check if the aerial has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside)
Dotted lines or stripes.	• Keep the TV away from electrical noise sources such as cars, motorcycles, or hair-dryers.
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (page 14). • If you set the Power Saving function to "Reduce," picture colours may become dimmer (page 19).
Some tiny black points and/or bright points on the screen.	• The picture of a flat panel display is composed of pixels. Tiny black points and/or bright points (pixels) on the screen, does not indicate a malfunction.
The screen flickers when turning on the TV.	• This is caused by the Plasma Display Panel feature, and does not indicate a malfunction.
The picture is too bright.	• Using the menu system, select the "Picture Adjustment" menu and select "mode." Then select the desired picture mode (page 13).
Picture (stripe) noise.	• Make sure that the aerial is connected using the supplied coaxial cable. • Keep the aerial cable away from other connecting cords. • Do not use 300-ohm twin lead cables as interference may occur.
Distorted picture and noisy sound.	• Check if any connected optional equipment is installed in front of the TV or at the side of the TV. When installing optional equipment, leave some space between the optional equipment and TV.
Striped noise during playback/recording of a VCR.	• Video head interference. Keep your VCR away from the TV. • Leave a space of 30 cm between your VCR and the TV to avoid noise. • Avoid installing your VCR in front of the TV or at the side of the TV.
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 (page 14).
Noisy picture when viewing a TV channel.	• Using the menu system, select the "Manual Programme Preset" option in the "Set Up" menu and adjust Fine Tuning (AFT) to obtain better picture reception (page 23). • Using the menu system, set the "NR" (Noise Reduction) option in the "Picture Adjustment" menu to reduce the noise in the picture (page 14).

Problem	Possible remedies
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing teletext.	• Using the menu system, enter to the "Language/Country" option in the "Set Up" menu and select the country in which you operate the TV set (page 21). For Cyrillic languages, we recommend to select Russia country in the case that your own country does not appear in the list.
No unscrambling or unstable picture whilst viewing a scrambled channels with a decoder connected through the Scart connector ⟿ 3/ ⟿ .	• Using the menu system, select the "Features" menu. Then set "AV3 Output" to "Auto" (page 20).
No sound/Noisy sound.	
Good picture, no sound.	• Press the ⊿ +/– button on the remote control. • Check that "TV Speakers" is set to "On" in the "Features" menu (page 19). • Check that headphones are not connected.
Audio noise.	• Make sure that the aerial is connected using the supplied coaxial cable. • Keep the aerial cable away from other connecting cords. • Do not use 300-ohm twin lead cables as interference may occur. • Communication problems may occur if the infrared communication equipment (e.g. infrared cordless headphones) is used near the TV. Please use headphones other than infrared cordless headphones, move the infrared transceiver away from the TV until the noise is eliminated, or move the transmitter and receiver of the infrared communication equipment closer together.
The TV fan noise becomes bigger.	• The ventilation holes can accumulate dust over a period of time. the accumulated dust may make the cooling function of the built-in fan less effective. To prevent this, we recommend removing the dust periodically (once a month) using a vacuum cleaner.
Cannot operate the menu.	• If the item you want to select appears in a pale colour, you cannot select it.
Strange sound.	
The TV cabinet creaks.	• Changes in room temperature sometimes causes the TV cabinet to expand or contract, which can make slight noises. This does not indicate a malfunction.
The TV whirs.	• The TV's fan setting is working. This does not indicate a malfunction.
The TV ticks.	• An electrical circuit inside the TV is activated when the TV is turned on. This does not indicate a malfunction.
The TV buzzes.	• There might be a surge sound when turning on the TV. This does not indicate a malfunction.
Remote control does not function.	• Check that the Media Selector on the remote control is set according to the device you are using (VCR, TV or DVD). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly, enter the necessary code set as explained in "Remote Control Configuration for VCR/DVD" on page 31. • Replace the batteries.
The ⏻/⏾ (standby/sleep) indicator on the TV flashes.	• Contact your nearest Sony service centre.

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

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