

TOSHIBA



Colour television
Owner's manual

ZP38 Series

Contents



SETTING UP

Safety precautions – Some do's and don'ts for you to be aware of	3
The remote control – an at-a-glance guide	4
Connecting external equipment	5
Connecting the speakers	6
Front connections and controls	7
Selecting the language	8
Auto tune	8
Manual tune – an alternative to <i>Auto tuning</i>	9
Programme skip	10
Sorting programme positions	11

CONTROLS

General controls – changing programme position	11
Sound controls – volume, sound mute, super woofer, bass/treble/balance	11
Widescreen viewing	12
Picture controls – picture preferences, scan mode, digital noise reduction (DNR), black stretch, colour temperature	13
Picture controls – picture size/position, automatic format (widescreen), geomagnetic adjustment (36" models only), still picture	14

FEATURES

The timer and time display – setting the TV to turn on and off, time display	15
Panel lock – disabling the buttons on the TV	15
Stereo and bilingual transmissions – stereo or dual language broadcasts	15
Input selection and AV connections – input and output sockets for connected equipment	16

SOUND FEATURES

Dolby Digital	17
Dolby Pro Logic	18
Digital Surround Processor	18

TELETEXT

Setting up, general information, Auto and List modes	19
Control buttons	20

PROBLEM SOLVING

Questions and Answers	21
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INFORMATION

Important information	23
Index, Specifications and Accessories – information on your television	24

Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured. Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products and some points may not apply to the goods you have just purchased.

Air Circulation

Leave at least 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the TV. Dusty places should also be avoided.

Heat Damage

Damage may occur if the TV is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity, or locations where the temperature is likely to fall below 5°C (41°F).

Mains Supply

The mains supply required for this equipment is 230v AC 50Hz. Never connect to a DC supply or any other power source. DO ensure that the TV is not standing on the mains lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in this plug is 13A, and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

Do not

DONT remove any fixed cover as this may expose dangerous voltages.

DONT obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DONT allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DONT place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

DONT use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DONT listen to headphones at high volume, as such use can permanently damage your hearing.

DONT leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DONT continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

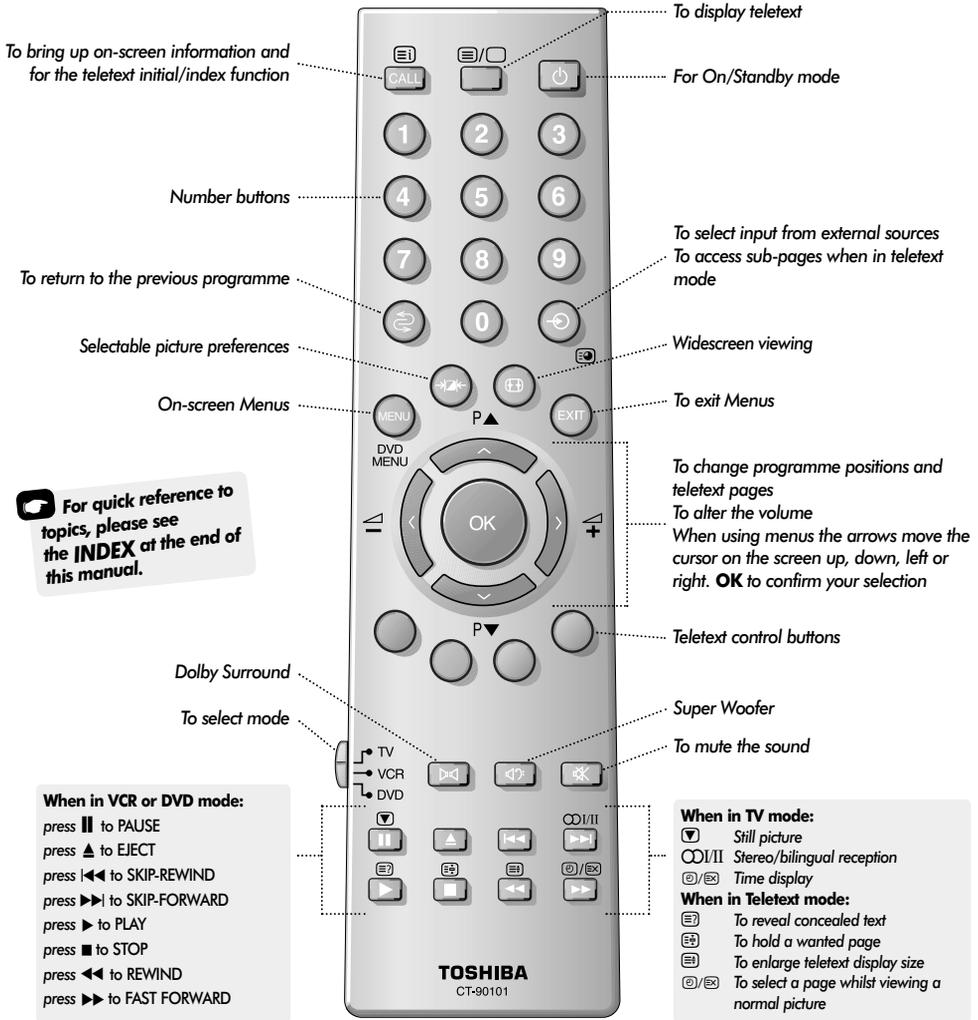
ABOVE ALL – NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case – this could result in a fatal electric shock.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

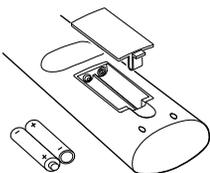
TO FULLY DISCONNECT THE TV, SWITCH OFF THE MAINS SOCKET AND REMOVE THE POWER PLUG.

The remote control

Simple at-a-glance reference of your remote control.



Inserting batteries and effective range of the remote



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round.

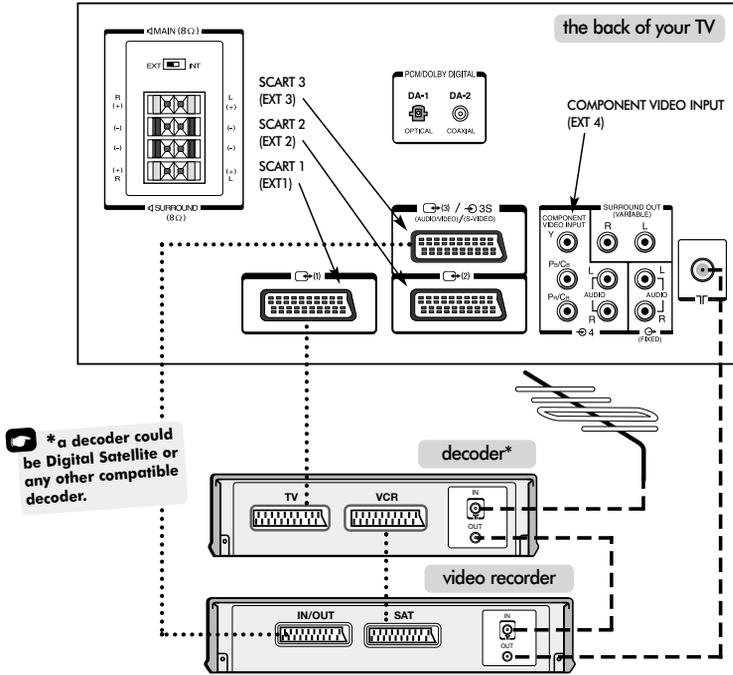
Suitable battery types for this remote are UM-4, AAA, IEC R03 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Dispose of them in a designated disposal area.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the TV.

Connecting external equipment

Before connecting any external equipment, turn off all main power switches.



WE RECOMMEND THAT YOU USE SCART LEADS IN ADDITION TO AERIAL CABLES WHEREVER POSSIBLE

Aerial cables: ----- 

Connect the aerial to the socket on the rear of the television. If you use a decoder* and/or a video recorder it is essential that the aerial cable is connected through the decoder and/or through the video recorder to the television.

Scart leads: 

Connect the video recorder **IN/OUT** socket to the TV. Connect the decoder **TV** socket to the TV. Connect the video recorder **SAT** socket to the decoder **VCR** socket.

Before running **Auto tuning** put your decoder and video recorder to **Standby**.

DA-1 and DA-2 enable the input of Digital Audio signals.

The phono sockets alongside the COMPONENT VIDEO INPUT sockets will accept L and R audio signals.

In addition there is a fixed external audio output which enables the connection to a suitable Hi-Fi unit.

A wide variety of external equipment can be connected to the back of the TV, therefore the relevant owners manuals for *all* additional equipment *must* be referred to.

We recommend *Scart 1* for a decoder, *Scart 2* for additional equipment (games console etc.) and *Scart 3* for a VCR.

If connecting S-VIDEO equipment, set the **INPUT** for **EXT3**. See page 16.

If the TV automatically switches over to monitor external equipment, return to normal TV by pressing the desired programme position button.

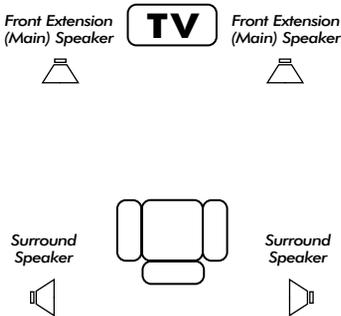
To recall external equipment, press  to select between **EXT1**, **EXT2**, **EXT3**, **EXT4** or **EXT5**.

*Note: If you are using component video and you have a 525P (Progressive) input (NTSC) on **EXT4**, certain functions will not work eg. **Still Picture**, **14:9** and **4:3** viewing formats. The **Colour** option in **Set Up** and the **Scan mode** and **DNR** in the **Picture** menu will not be present.*

Connecting the speakers

In order to enjoy the full benefits of Surround Sound/Dolby Digital it is necessary to connect two rear surround speakers and two front extension speakers. **External Hi-Fi speaker specifications must be 8 ohm, 10W minimum.**

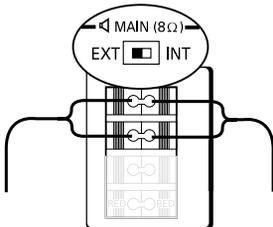
Positioning the speakers



When connecting external speakers always make sure that the power is OFF. **Do not attempt to SHARE external speakers with your Hi-Fi as serious damage may occur.**

The front speakers should be positioned either side of the TV and will deliver the left and right sound. The internal speakers will then deliver the centre channel when required. These are suggested positions only. Place the speakers to suit and adjust the balance as necessary.

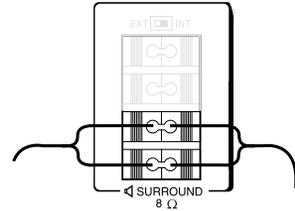
Extension front speaker connections



To connect extension front speakers press the connectors of the Main speaker terminals on the back of the TV and insert the cables. The switch must now be set to **EXT** as shown.

Make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

Surround speaker connections

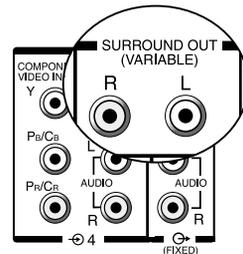


To connect surround speakers press the connectors of the Surround speaker terminals on the back of the TV and insert the cables.

These speakers should be sited in line with the normal viewing position.

Make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

Using an external amplifier



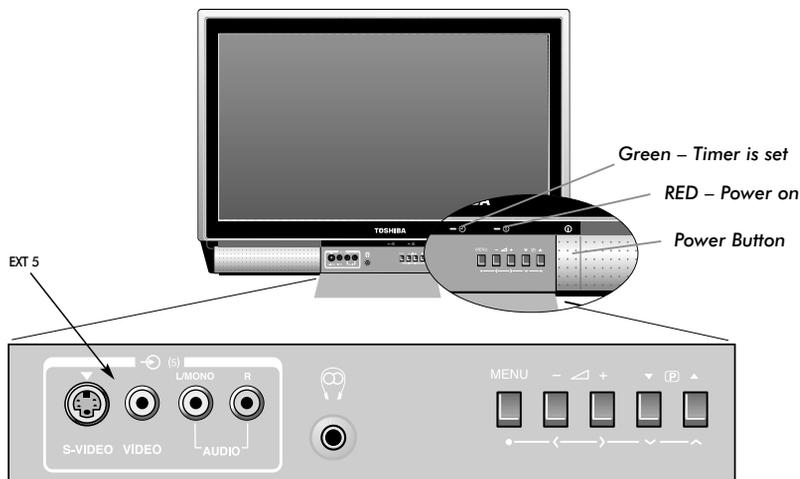
To use an external amplifier to power the surround speakers insert the phono plugs into the Surround out connections on the back of the TV.

No sound will come from the Surround Sound terminals if this option is chosen.

Front connections and controls

A wide variety of external equipment can be connected via the sockets located behind the flap on the TV. Do not use the S-Video and Video sockets at the same time. Press the centre of the flap to open it.

Whilst all the necessary adjustments and controls for the TV are made using the remote control, the buttons on the TV may be used for some functions.



Switching on

If the power-on light is unlit press the POWER button on the front of the TV to switch the set on, then press a number button on the remote control to see the screen.

To put the set into Standby press on the remote control. To view the TV press again or any of the number buttons. The picture may take a few seconds to appear. Standby should only be used for short periods of time.

To set up the TV you will now need to use the on-screen menus. Press the **MENU** button on the remote control to see the top menu bar.

This white menu bar will show five different topics shown in symbols. As each symbol is selected by pressing the or button on the remote control, its respective options will appear below.

To use the options press the button on the remote control to move down through them and or to select the required choice. Follow the on screen instructions.

The functions of each menu are described in detail throughout the manual.

Using the controls and connections

To alter the volume press .

To alter the programme position press .

Press **MENU** and , , or to control the sound and picture options.

Press **EXIT** to finish.

When connecting mono sound equipment to **EXT 5**, connect the audio output of the equipment to the L/Mono socket on the TV.

To select the Input, press until the display shows **EXT5** as described on page 16. The TV will automatically sense the type of signal.

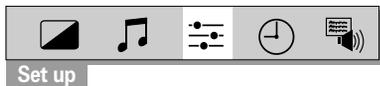
Please always refer to the owner's manual of the equipment to be connected for full details.

Please note: Inserting the headphone jack will mute the sound from all speakers.

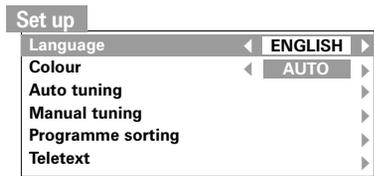
Selecting the language, Auto tune

Before running Auto tune put your decoder and video recorder to **Standby**. To set up the TV use the buttons on the remote control as detailed on page 4.

- 1 To choose the required language, press **MENU** and use **>** to select **Set up** from the top bar.

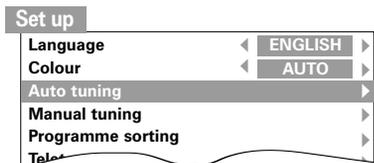


- 2 Press **∨** to highlight **Language**.



- 3 Press **<** or **>** to select.

- 4 Now press **∨** to highlight **Auto tuning**, then **>** to select.



- 5 Press **OK** to start.



- 6 The search will begin for all available stations. **▶▶▶▶** will flash and the bullet will move along the line as the search progresses.

You must allow the television to complete the search.



- 7 When the search is complete the TV will automatically return to programme position 1. This may not be a clear picture, so the station order may be changed by using **Programme sorting**, on page 11.

If the television cannot be connected to a video/decoder with a Scart lead use **Manual tuning** to allocate a programme position, see page 9.

Manual tune

As an alternative to **Auto tuning**, the TV can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a video/decoder with a Scart lead.

Use **<** and **>** to move across the screen and select any of these Manual Tune options.



Programme: The number to be pressed on the remote control.

System: Specific to certain areas. System I used in the UK.

Search: Search up and down for a signal.

Programme skip: * means nothing has been stored or the facility to *skip* the channel is ON. See page 10.

Channel: The channel number on which a station is being broadcast.

Manual fine tuning: Only used if interference/weak signal is experienced. See page 21.

Station: Station identification. Use the **^** or **v** and **<** or **>** buttons to enter up to seven characters.

To allocate a programme position on the television for a decoder and VCR: turn the decoder on, insert a pre-recorded tape in the video and press **PLAY**, then manually tune.

- 1** Select **Set up** from the top menu bar and with **v** highlight **Manual tuning**, press **>** to select.



Set up

Language	<	ENGLISH	>
Colour	<	AUTO	>
Auto tuning	>		
Manual tuning	>		
Programme sorting	>		
Teletext	>		

- 2** Use **^** or **v** to highlight the programme position required e.g. we suggest **Prog. 0** for a video.

Manual tuning

Prog.	Sys.	Channel	Station
0	I	60	VCR
1	I	22	BBC1
2	I	28	BBC2
3	I	25	ITV
4	I	32	CH4
5	I	* 69	

Different **Channel** numbers may be displayed

OK : To select **EXIT** : To exit

- 3** Press **OK** to select.

Manual tuning

System

0 I 60 0 VCR

OK : To store

EXIT : To exit

MENU : To return

The **System** will already have been selected. System I is used in the UK.

- 4** Press **>** to select **Search**.

- 5** Pressing **^** will begin the search. **Searching** will flash and the television will show the channel numbers.

Manual tuning

Searching

0 I >>> 32 0

OK : To store

EXIT : To exit

MENU : To return

Manual tune continued

Programme skip

- Each signal will show on the television, if it is not your VCR, press **^** again to restart the search.
- When your VCR signal is found, press **>** to move along to **Station**. With **^**, **v**, **<** and **>** put in the required characters, e.g. **VCR**.

Manual tuning

Station

0	I	39	0	VCR
---	---	----	---	-----

OK : To store EXIT : To exit

MENU : To return

- Press **OK** to store.
- Repeat for each **programme position** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.
- Press **EXIT** to finish.

PLEASE NOTE This TV has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in **Step 3**. Enter the **Programme number**, the **System**, then the **Channel** number. Press **OK** to store.

Programme skip

To prevent certain programmes from being viewed, the programme position can be skipped and the remote control removed. The television can then be watched as normal using the controls on the front, but the set will not show the skipped programme position.

- Select **Manual tuning** from the **Set up** menu.

Manual tuning

Prog.	Sys.	Channel	Station
0	I	60	VCR
1	I	22	BBC1
2	I	28	BBC2
3	I	25	ITV
4	I	32	CH4
5	I	* 69	

OK : To select EXIT : To exit

- Use **^** or **v** to highlight the programme position to be skipped and press **OK** to select.
- Press **>** to select **Programme skip**.
- Use **^** or **v** to turn **Programme skip : On**. Press **OK**.

Manual tuning

Programme skip : On

1	I	* 22	0	BBC1
---	---	------	---	------

* on the screen indicates a skipped programme position.

OK : To store EXIT : To exit

MENU : To return

- Press **MENU** and repeat from **Step 2** or press **EXIT**.

Each programme position has to be *individually* selected and set with **Programme skip On** or **Off**.

To turn **Programme skip off**, repeat the procedure for each position.

Skipped programme positions **cannot** be selected by **P▲** (**^**) and **P▼** (**v**) or by the controls on the front of the TV, but can still be accessed by the number buttons on the remote control.

Sorting programme positions, General and sound controls

Sorting programme positions

Programme sorting is an easy way of storing each channel on the programme position of your choice.

- 1 Select **Programme sorting** from the **Set up** menu.

Set up

Language	◀ ENGLISH ▶
Colour	◀ AUTO ▶
Auto tuning	▶
Manual tuning	▶
Programme sorting	▶
Teletext	▶

EXIT : To exit

- 2 The list of stations is now showing. With ∇ or \blacktriangle highlight the station you want to move and press **OK**.

The selected station will be moved to the right of the screen.

Programme sorting

Prog.	Channel	Station
1	◀ 22 ▶	BBC1
2	28	BBC2
3	25	ITV
4	32	CH4
5	* 69	
6	* 69	

OK : To set

EXIT : To exit

- 3 Use ∇ or \blacktriangle to move through the list to your preferred position. As you do so the other stations will move to make room.

- 4 Press **OK** to set your move.

- 5 Repeat as necessary, then press **EXIT**.

Selecting programme positions

To select a programme position use the numbered buttons on the remote control.

For programme positions below 10 use 0 and the required number e.g. 01 for programme position 1.

Programme positions can also be selected using **P▲** (\blacktriangle) and **P▼** (\blacktriangledown).

To revert to the previous programme position press \curvearrowright .

The programme position will be displayed on the screen with the Stereo/Mono indicator, described on page 15.

1
BBC1
Stereo

Sound controls

Volume

Press \blacktriangle (\blacktriangleleft) or \blacktriangledown (\blacktriangleright) to adjust the volume.

Volume 32

Sound Mute

Press \times once to turn the sound off and again to cancel.

Super Woofer – to enhance the depth of sound

Press \blacktriangle (\blacktriangleleft) then \blacktriangleleft or \blacktriangleright to adjust the effect. The difference will only be noticeable on sound with a strong bass. Press \blacktriangle (\blacktriangleleft) again to turn Super Woofer off.

Bass, Treble and Balance



Sound

Bass	+ 1	◀ ● ▶
Treble	0	◀ ● ▶
Balance	0	◀ ● ▶

EXIT : To exit

- 1 Press **MENU** and \blacktriangleleft or \blacktriangleright to select the **Sound** option from the top bar.

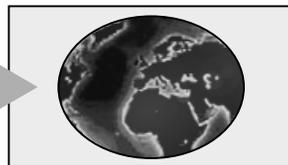
- 2 Press ∇ to highlight **Bass**, **Treble** or **Balance** and \blacktriangleleft or \blacktriangleright to change the setting.

Widescreen viewing

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats. Press the  button repeatedly to select between **Super live**, **Cinema**, **Subtitle**, **14:9**, **Wide** and **4:3**. Please note: Whenever the **MENU** button is pressed the picture size setting will change while the menus are ON the screen. This is to ensure that the menus do not overlap the edges of the viewable area.

SUPER LIVE

This setting will enlarge the image to fit the screen by stretching the image horizontally, holding the correct proportions at the centre of the image.



CINEMA

When watching 'letterbox format' films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.



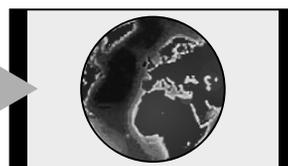
SUBTITLE

When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.



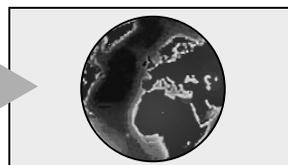
14:9

Use this setting when watching a 14:9 broadcast.



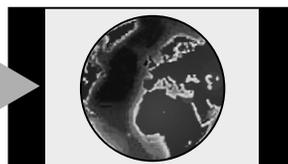
WIDE

Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) black bars may be visible on the top and bottom of the screen.



4:3

Use this setting to view a true 4:3 broadcast.



Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

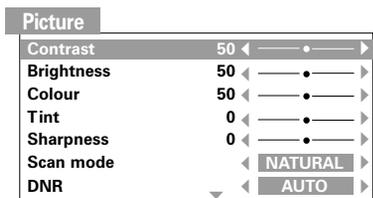
Picture controls

Picture preferences

This television offers the choice of personalising the picture style. Press   to view the different styles available:

Picture mode-1 to 3 are preset options and **Picture mode-M** stores your own settings:

- 1 Select **Picture** from the top menu bar.



EXIT : To exit

- 2 Use  or  to adjust the **Contrast**, **Brightness**, **Colour**, **Tint** and **Sharpness**.

The **Tint** can only be adjusted on a signal from an NTSC video recorder or DVD player when the television is in **AUTO** colour mode.

Scan mode

Scan mode has four options. **NATURAL**, **ACTIVE** and **100Hz** settings run at 100Hz and reduce background flicker. The **NATURAL** setting normally gives the better picture, but for programmes such as football matches **ACTIVE** or **100Hz** may give a smoother result.

PROGRESS. (Progressive) is 50Hz for PAL images and is also particularly suited to 60Hz NTSC images.

- 1 Select **Scan mode** from the **Picture** menu.
- 2 With  or  select **NATURAL**, **ACTIVE**, **100Hz** or **PROGRESS**. to choose the best picture – the difference may only be slight.

DNR – Digital Noise Reduction

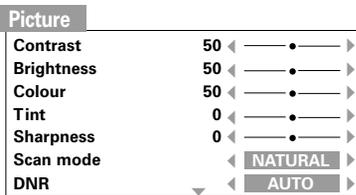
DNR enables you to 'soften' the screen representation of a weak signal.

- 1 Select **DNR** from the **Picture** menu. Select between **AUTO** and **OFF** to obtain the best picture. The differences may not always be noticeable.

Black Stretch

Black Stretch increases the strength of dark colours.

- 1 Select **Black Stretch** from the **Picture** menu by pressing  until the lower section of the screen appears.
- 2 Press  or  to select between **ON** and **OFF**. The effect depends on the broadcast and is most noticeable on dark colours.



EXIT : To exit

Colour Temperature

Colour Temp. increases the 'warmth' or 'coolness' of a picture by increasing the red or blue tint.

- 1 Select **Colour Temp.** from the **Picture** menu by pressing  until the lower section of the screen appears.
- 2 Press  or  to select between **NORMAL**, **WARM** and **COOL** to suit your preference.

Picture controls continued

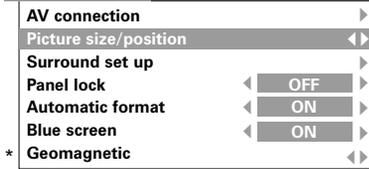
Picture size/position

The picture position may be adjusted to suit personal preference.

- 1 Select **Feature Menu** from the top menu bar, then using \blacktriangledown select **Picture size/position**.



Feature menu

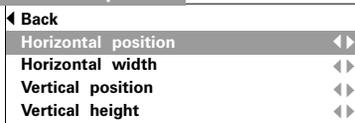


- 2 Press \blacktriangleright to view the options available for the picture format that has been selected.
- 3 Press \blacktriangle and \blacktriangledown to select an option, then \blacktriangleleft or \blacktriangleright to adjust the settings.

The options alter depending on the widescreen format chosen and when viewing connected equipment.

In **Cinema**:

Picture size/position



Automatic format (Widescreen)

When this TV receives a true Widescreen picture and **Automatic Format** is **ON**, it will automatically be displayed in Widescreen format, irrespective of the TV's previous setting.

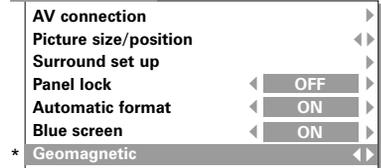
- 1 Select **Automatic format** from the **Feature menu**, then select **ON** or **OFF**.

Geomagnetic adjustment (*36" models only)

If the picture is not level it could be due to the earth's magnetic field.

- 1 Choose **Geomagnetic** from the **Feature menu**.

Feature menu



- 2 Press \blacktriangleleft or \blacktriangleright to rotate the picture to its best position.



Still picture

This television's 100Hz double scanning plus digital picture processing produces a flicker-reduced picture. In addition, a still image can be held on the screen.

- 1 Press \blacktriangledown to hold an image on the screen. Press \blacktriangledown again to cancel.

The timer, time display, panel lock and stereo/bilingual transmissions

The Timer

The TV can be set to turn itself **ON** or **OFF** after a certain time.

- 1 Select **Timer** from the top menu bar.



Timer

Off timer	00:00
On timer	01:30 P 2

0 - 9 : To set
EXIT : To exit

- 2 Press **✓** to select **On** or **Off timer**. Use the number buttons to set the required time. For example, to switch the TV off in one and a half hours enter 01:30.
- 3 If setting the **Off timer**, press **EXIT** to finish. If setting the **On timer**, enter the programme position number required, then press **⏻** to put the TV into Standby. The GREEN On timer indicator on the front of the TV will now be lit.

Any equipment connected with Scart leads must also be put into Standby to prevent them from being displayed when the timer switches on.

Once the **On timer** has been set the TV can be switched on at any time by pressing **⏻**. The Green On timer indicator will remain on until the set time period as passed when the TV will go to the chosen channel. This feature can help to avoid missing favourite programmes.

- 4 To cancel the **On timer**, enter zero in each position including the programme position.

The Time Display

The time display facility allows the current time to be seen on the TV screen.

Press **⌚/⌚** whilst watching a normal TV broadcast to see a time display from the broadcaster.

It will remain on screen for about 5 seconds.

Panel lock

Panel lock disables the buttons on the front of the TV. All buttons on the remote control can still be used.

- 1 From the **Feature** menu select **Panel lock** and choose **ON** or **OFF** using **◀** or **▶**.

Feature menu

AV connection	▶
Picture size/position	◀▶
Surround set up	▶
Panel lock	◀ OFF ▶
Automatic format	◀ ON ▶
Blue screen	◀ ON ▶
* Geomagnetic	◀▶

When **Panel lock** is **ON**, a reminder will appear when any of the front panel buttons are pressed. Once the set has been switched off it can **ONLY** be brought out of standby using the remote control.

Stereo and Bilingual transmissions

If stereo or dual language broadcasts are transmitted the word **Stereo** or **Dual** will appear on the screen each time programme positions are changed, disappearing after a few seconds. If the broadcast is not in stereo the word **Mono** will appear.

Stereo... Press **⏻/⏻** to select **Stereo** or **Mono**.

Bilingual... Bilingual transmissions are rare. If they are transmitted the word **Dual** will display. Choose the required programme number and if the word **Dual** appears press **⏻/⏻** to select **Dual 1**, **Dual 2** or **Mono**.

Input selection and AV connections

Defining the INPUT and OUTPUT sockets so that the television recognises connected equipment. See page 5 for a clear view of the back connection recommendations.

Most VCRs and decoders send a signal through the Scart lead to switch the TV to the correct *Input* socket. Alternatively press the external source selection button  until the picture from connected equipment is shown. This button must be used to view equipment connected using the COMPONENT VIDEO INPUT (**EXT4**).

Digital Audio on the screen indicates that the external source has been set as a digital audio input. An **S** e.g. **EXT3S**, indicates the input is set for an S-Video signal.

Input selection – Digital Audio signal

This set is provided with 2 digital audio inputs – DA-1 and DA-2 – so that equipment can stay permanently connected.

For example: connect the video signal from a DVD to the Component Video Input (**EXT4**) and from a games console to Scart 2 (**EXT2**), connect the audio cables to the inputs on the back of the set. Match the two up as follows:

- 1 If DA-1 (optical) has been connected to the DVD player, select **AV connection** from the **Feature menu** and press  to highlight **Digital input-1**, then press  or  to select **EXT 4**.

AV connection

◀ Back	
Digital input-1	◀ EXT 4 ▶
Digital input-2	◀ EXT 2 ▶
EXT3 input	◀ AV ▶
EXT3 output	◀ EXT 1 ▶

- 2 For the second connection, press  to highlight **Digital input-2** (coaxial), then  or  to select **EXT 2** for the games console.

Input selection – Video signal

This specifies the type of signal going into Scart 3 (**EXT3**) on the back of the TV. Please refer to the manufacturers instructions for the connected equipment.

- 1 From the **Feature menu** select **AV connection** and with  or  select either **AV** or **S-VIDEO** as the required *input* for **EXT3**.

If the colour is missing try the alternative setting.

AV connection

◀ Back	
Digital input-1	◀ EXT 4 ▶
Digital input-2	◀ EXT 2 ▶
EXT3 input	◀ AV ▶
EXT3 output	◀ EXT 1 ▶

Output selection – signal for Scart 3

This enables selection of the source to *output* from Scart 3. For example, to record transmissions in stereo from a stereo decoder – connect a stereo decoder to Scart 1 and stereo VCR to Scart 3, then select **EXT 1** as the **EXT3 output**. The signal received through Scart 1 will output directly through Scart 3.

- 1 Select **AV connection**.

AV connection

◀ Back	
Digital input-1	◀ EXT 4 ▶
Digital input-2	◀ EXT 2 ▶
EXT3 input	◀ AV ▶
EXT3 output	◀ EXT 1 ▶

- 2 Use  or  to change the **EXT3 output** option to:

MONITOR = The picture on screen.

TV = The last television programme selection.

EXT 1 = The picture from equipment connected to Scart 1.

EXT 2 = The picture from equipment connected to Scart 2.

EXT 5 = The picture from equipment connected to the front input sockets.

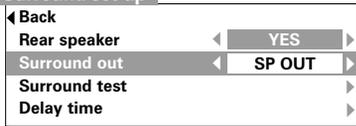
Dolby Digital

Dolby Digital is available from DVD players, some games console players, etc. These must be connected using a Scart or phono lead for the picture and an optical or a coaxial cable for the sound.

Arrange the speakers as shown on page 6 then set up the TV as follows:

- 1 Connect the DVD to the TV using phono leads to the COMPONENT VIDEO INPUT or a Scart lead to **EXT 2**, and an optical or coaxial cable to the optical/coaxial sockets, DA-1 or DA-2.
- 2 Set the **Digital input-1** in the **AV connection** menu (see page 16) to **EXT 2** if Scart 2 is used or **EXT 4** if the equipment is connected to COMPONENT VIDEO INPUT.
- 3 If external front speakers are connected the External speaker switch on the back of the TV must be set to **EXT** (see page 6). The centre channel will not be heard without external front speakers connected.
- 4 Make sure the rear speakers are connected, then in the **Feature Menu** press \checkmark to select **Surround set up**. Use \rightarrow to set the **Rear speaker** option in the **Surround set up** menu to **YES**.
- 5 Press \checkmark to select **Surround out** and set the option to **SP OUT** (Surround speakers out).

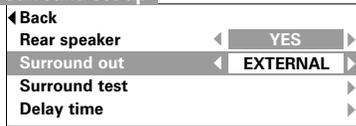
Surround set up



If an external amplifier is to be used to power the surround speakers set the **Surround out** option to **EXTERNAL**.

No sound will come from the surround sound terminals if this option is chosen.

Surround set up



If the **Rear speaker** option is set to **NO**, no sound will be heard from the rear speakers and the **Surround out** option will not be selectable.

Delay time

If the rear speakers and seating are a long way from the TV, the sound from the rear speakers will reach you before the sound from the front. A higher setting in the **Delay time** option can restore the correct balance.

- 1 Select **Surround set up** from the **Feature menu**.
- 2 Select the **Delay time** option, use \leftarrow or \rightarrow to adjust the setting to a suitable value.
- 3 Press **EXIT** to finish.

Sound adjustment

- 1 Set the volume and balance of the front speakers.
- 2 Play a Dolby Digital film and press Dolby on the remote control. The **Surround** menu will appear giving an indication of the channels available e.g. **Dolby Digital 3/2** (see the table).
- 3 Press \wedge and \vee to select the speakers, then use \leftarrow or \rightarrow to adjust. The number of adjustable speakers will depend upon the signal received from the DVD player.
- 4 Press **EXIT** to finish. Alternatively select **Surround test** in the **Surround set up** menu.

In order to get full Dolby Digital the DVD player must be connected using the coaxial or optical links.

Dolby Digital

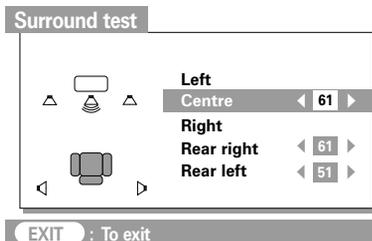
- 1/0 = Centre speaker only.
- 2/0 = Front Left and Front Right only.
- 2/1 = Front Left and Front Right + Rear Left and Rear Right combined.
- 2/2 = Front Left and Front Right + Independent Rear Left and Independent Rear Right.
- 3/0 = Front Left and Front Right and Centre. No Rear Speakers.
- 3/1 = Front Left and Front Right and Centre + Rear Left and Rear Right combined.
- 3/2 = Front Left and Front Right and Centre + Independent Rear Left and Independent Rear Right.

Dolby Pro Logic, Digital Surround Processor

Dolby Pro Logic – Surround test mode

Dolby Pro Logic is available on many TV broadcasts as well as video tapes and some DVDs. It uses a combination of 4 speaker channels – front-left, centre, front-right and two rear. If external front speakers are not connected, the left and right front channels will be delivered through the speakers in the TV and a centre channel will not be heard.

- 1 Select **Surround set up** from the **Feature menu**.
- 2 Set the **Rear speaker** option to **YES**. The **Surround test** will only function if **YES** is selected.
- 3 Press **▷◁** and select **Dolby Pro Logic** from the **Surround** menu. Press **EXIT**.
- 4 From the **Feature menu** select **Surround set up** and choose the **Surround test** option.
- 5 The Test will play 'white noise' through each speaker in turn. As the display highlights a speaker use **◀** and **▶** to adjust the sound.



If you cannot connect rear speakers try selecting **Dolby 3 Stereo** in Step 3, but you must have external front speakers connected and the External speaker switch set to **EXT**.

Digital Surround Processor

This TV is equipped with a Digital surround processor which can produce a variety of surround sound modes from within the set. The modes are only available on a stereo signal except **Pseudo surround** which works on both mono and stereo signals. All of the modes are individually adjustable.

- 1 Press **▷◁** and use **^** or **v** to select the mode which best suits the type of broadcast.
- 2 Press **▶** to access the speaker screen then adjust the levels as required.

Surround sound modes

Hall

Reproduces surround effects similar to those experienced in a large concert hall. Ideal for TV programmes or music video tapes.

Theatre

Reproduces surround effects similar to those experienced in a movie theatre filled with a rich warm sound. Ideal for movies with stereo sound.

Disco

Creates the atmosphere of a room full of music that seems to engulf the listener. An ideal sound mode for listening to pop videos.

Stadium

Reproduces surround effects similar to those experienced in a large football or baseball stadium packed for a live game.

Pseudo surround

Creates a synthetic sound effect for movies and TV shows recorded in mono.

Off

Uses only the front left and right speakers. This mode can be selected for watching news and similar broadcasts which require no special sound features.

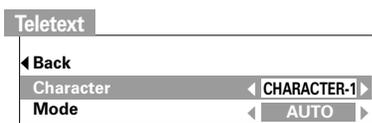
Teletext – setting up, general information, Auto and List modes

This TV has a multi-page teletext memory, which takes a few moments to load. It offers two **Modes** of viewing text – **AUTO** will display **FASTTEXT**, if available. **LIST** will store your four favourite pages.

Characters and Modes

Before using teletext choose the correct alphabet (**Character**) and whether to view in **LIST** or **AUTO** mode.

- 1 Select **Teletext** from the **Set up** menu.
- 2 Highlight **Character**, press **➤** to select the required character set.



Use **CHARACTER-1** for the UK

- 3 Select **Mode** and with **◀** or **▶** choose **AUTO** or **LIST** then press **EXIT**.

Teletext information

The / button:

To view teletext press / . Press again to superimpose the teletext over a normal broadcast picture and again to return to normal viewing. Programmes cannot be changed until teletext is cancelled.

The first text page shown will be the *initial* page.

In **AUTO** mode this displays the main subjects available and their relevant page numbers.

In **LIST** mode this displays whichever page number is currently stored on the **RED** button.

In either mode any teletext page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing **P ▲** (▲) to advance to the next page and **P ▼** (▼) to go back to the previous page.

Sub-pages

If there are sub-pages they will automatically load into memory without changing the page on screen.

Arrows will appear alongside the page number, indicating sub-pages have loaded.

To access the sub-pages press  (◀) then use **◀** and **▶** to view them. An indicator will show on the bottom left of the screen.

To alter the volume sub-pages must be cancelled by pressing  (◀).

After a short time of inactivity the indicator will disappear. To access the sub-pages again press  (◀). These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

Navigating pages using Auto

If **FASTTEXT** is available four coloured titles will appear at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control.

For further information on your particular text system(s), see the broadcast teletext index page or, consult your local Toshiba dealer.

Navigating pages using List

The four coloured choices at the bottom of the screen are numbers – 100, 200, 300 and 400, which have been programmed into the TV's memory. To view these pages press the relevant coloured buttons.

To *change* these stored pages press the relevant coloured button and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Press **OK** to store. The bars at the bottom of the screen will flash white. **Whenever OK is pressed all four page numbers showing at the bottom will be stored and the previous ones will be lost.**

If **OK** is not pressed the selection will be forgotten when teletext is cancelled.

Other pages may be viewed by entering the 3 digit page number – but **DO NOT** press **OK** or these pages will be stored.

Teletext continued

– control buttons

Below is a guide to the functions of the remote control teletext buttons.



To display an index/initial page:

AUTO

Press  to access index pages. The one displayed is dependant on the broadcaster.

LIST

Press  to return to the page currently stored on the **RED** button.



To display a page of teletext:

Press  to display teletext. Press again to superimpose teletext over a normal broadcast picture. Press again to return to normal TV viewing. Programmes cannot be changed until you return to normal TV.



To access sub-pages:

For use with  and  to view sub-pages when available.



To reveal concealed text:

To discover the solutions on quiz and joke pages press the  button.



To hold a wanted page:

At times it is convenient to hold a page of text. Press  and  will appear in the top left of the screen. The page will be held on screen until the button is pressed again.



To enlarge the teletext display size:

Press  once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.



To select a page whilst viewing a normal page:

Enter the page number then press , a normal picture will be displayed. The TV will indicate when the page is present by displaying the page number at the top of the screen. Press  to view the page.

To display news flashes:

Select the news flash page for the chosen teletext service (see the index page of teletext service). Press . The news flashes will be displayed as and when they are broadcast. Press  again to cancel the display.

The news flash page must be cancelled before changing programmes.



Remember to cancel teletext before changing channels – press the  button twice.

For quick reference to topics, see the **INDEX** at the back of this manual.

Questions and Answers

Remember...

For television operation queries, please ring the helpline...



Below are the answers to some of the most common queries.

Q Why is there no sound or picture?

A Check the mains switch is on and check all connections.
Check the TV is not in standby mode.

Q There IS a picture, but why is there little or no colour?

A When using an **external** source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The colour is factory set to **AUTO** to automatically display the best colour system.

To check that you have the best colour:

- 1 Select **Colour** from the **Set up** menu.



EXIT : To exit

- 2 With **<** or **>** choose between **AUTO**, **PAL**, **SECAM**, **NTSC 4. 43** or **3. 58**.

Q Why doesn't the video/DVD being played show on screen?

A Make sure the VCR or DVD player is connected to the TV as shown on page 5, then select the correct input by pressing **↻**.

Q Why is there a good video picture but no sound?

A Check the Scart lead connection.

Q Why is there a picture but no sound?

A Check the volume has not been turned down or that sound mute has not been selected.

Q Why is the video/DVD connected through EXT3, in black and white?

A Check the correct **input** has been chosen, **S-VIDEO** or **AV**. See **AV connections**.

Q What else can cause a poor picture?

A Interference or a weak signal. Try a different TV station. Ensure System I has been chosen, see **Manual Tune**. **Manual fine tuning** may help.

- 1 Select the **Manual tuning** menu. Highlight the station and press **OK**, then press **>** to select **Manual fine tuning**.

- 2 Using **^** or **v** adjust to get the best picture and sound. Press **OK** and then **EXIT**.

Manual tuning

Manual fine tuning

1 I 22 + 2 BBC1

OK : To store

EXIT : To exit

MENU : To return

Q Why doesn't the remote control work?

A Check the side switch on the remote control is in TV mode.
Check the batteries aren't dead or inserted incorrectly.

Q Why don't the controls on the front of the TV work?

A Check that **Panel lock** is not **ON**.

Q Why has the screen turned blue?

A **Blue screen** in the **Feature** menu is **ON**. When no signal is being received, the TV will turn off the sound and switch the TV screen to blue. After 20 minutes the TV will switch to Standby mode.

Questions and Answers continued

Q Why are there problems with teletext?

A Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the Text is unreadable or garbled, check the aerial. Go to the *main index* page of the teletext service and look for the *User Guide*. This will explain the basic operation of teletext in some detail. If further information is needed on how to use text see the *teletext* section.

Q Why are there no teletext sub-pages?

A There are none broadcast or they have not yet loaded. Press the  button to access. (See *teletext* section).

Q Why are the colours wrong when an NTSC source is played?

A Connect the source via a Scart lead and play. Select the **Set up** menu.

Set up

Language	◀ ENGLISH ▶
Colour	◀ AUTO ▶
Teletext	▶

EXIT : To exit

- 1 Set the Colour to **AUTO** and exit.
- 2 Go to the **Picture** menu and adjust the tint.

Q Why is there no sound from external equipment?

A Check the Scart lead connections. Check the **AV Connections**. Make sure Digital Input has not been selected.

Q Why is there a message permanently on the screen?

A Remove it by pressing **CALL**.

Q Why is there sound but no picture from external equipment?

A Check the Scart lead connections.

Q Why is there no Dolby Surround?

A If surround sound effects are unavailable from the rear speakers whilst playing a Dolby Surround video tape, check that the VCR is a stereo unit and is connected by a Scart lead. Then check the **Surround set up** in the **Feature menu**.

Q Why is there no Dolby Digital?

A If full Dolby Digital is unavailable, check that the **Rear speaker** option in **Surround set up** is set to **YES**, that the equipment is connected by optical or coaxial cable as well as through a Scart socket or COMPONENT VIDEO OUTPUT. Also check that **EXT2** or **EXT4** is selected in **AV connections**.

If external front speakers are connected the External speaker switch must be set to **EXT** to get the full benefit of Dolby Digital. If the switch is set to **INT** the external speakers will not function. **Turn the TV off before changing the position of the switch.**

Q Why is there no sound from the external front speakers?

A Check that the External speaker switch has been set to **EXT**.

Q Why is there no sound from the external rear speakers?

A Check that the **Rear speaker** option in **Surround set up** is set to **YES** and the **Surround out** option is set to **SP OUT**.

Q Why is there no sound from the connected external amplifier?

A Check that the **Rear speaker** option in **Surround set up** is set to **YES** and the **Surround out** option is set to **EXTERNAL**.

Important Information

Please take note

EXCLUSION CLAUSE

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- i) fire;
- ii) earthquake;
- iii) accidental damage;
- iv) intentional misuse of the product;
- v) use of the product in improper conditions;
- vi) loss and/or damage caused to the product whilst in the possession of a third party;
- vii) any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
- viii) any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

WARNING! NEVER LEAVE A STATIONARY IMAGE ON THE SCREEN

If stationary images generated by TELETEXT, CHANNEL IDENTIFICATION LOGOS, COMPUTER DISPLAYS, VIDEO GAMES, ON SCREEN MENUS, etc. are left on the TV screen for any length of time, they could become permanently ingrained.

If you use your television to display completely still images, or moving pictures which have a permanent still image superimposed e.g. broadcast network logos, it is always advisable to reduce BOTH the brightness and contrast settings.

Care and disposal

Cleaning the screen and cabinet...

*Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.*

Disposal...

When the set reaches the end of its useful life please dispose of it in accordance with Local Government Regulations or at a recycling centre.

Subject	INDEX	Page	Subject	INDEX	Page
Auto tuning.....		8	Picture size/position.....		14
Automatic format (Widescreen).....		14	Programme selection.....		11
AV connections.....		16	Programme skip.....		10
Balance.....		11	Programme sorting.....		11
Bass.....		11	Questions and Answers.....		21
Bilingual broadcast.....		15	Remote control.....		4
Black stretch.....		13	Scan mode.....		13
Blue screen.....		21	Scart.....		5
Brightness.....		13	Sharpness.....		13
Broadcast system.....		9	Sound mute.....		11
Colour.....		13	Standby.....		7
Colour system.....		21	Stereo.....		15
Colour temperature.....		13	Still picture.....		14
Connecting the speakers.....		6	Super woofer.....		11
Connections – front.....		7	Surround sound – Dolby Digital.....		17
Connections – back.....		5	Surround sound – Dolby Pro Logic.....		18
Contrast.....		13	Surround sound – Digital Surround Processor.....		18
Controls.....		7	Switch on TV.....		7
Digital Noise Reduction.....		13	Teletext.....		19
Direct entry of channels.....		10	Time display.....		15
Geomagnetic adjustment.....		14	Timer.....		15
Input selection.....		16	Tint.....		13
Language.....		8	Treble.....		11
Manual fine tuning.....		21	Tuning a programme position for your VCR.....		9
Manual tuning.....		9	Tuning – Auto.....		8
Mono.....		15	Tuning – Manual.....		9
Panel lock.....		15	Volume.....		11
Picture preferences.....		13	Widescreen viewing.....		12

Specifications and accessories

Broadcast systems/channels

PAL-I	UHF UK21-UK69
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
SECAM-D/K	UHF R21-R69 VHF R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin Scart	RGB, A/V
EXT2	Input	21-pin Scart	RGB, A/V
EXT3	Input/Output	21-pin Scart	A/V, S-video, Selectable output
EXT4	Input	Phono jacks Phono jacks	Y, P _B /C _B , P _R /C _R Audio L + R
EXT5	Input (front)	4-pin Phono jack Phono jacks	S-video Video Audio L + R
Digital Audio Input	DA-1 DA-2	Optical Coaxial	
Fixed Output	Phono jacks	Audio L + R	
Surround Out Variable	Phono jacks	Audio L + R	

Programme Positions

100

Stereo

Nicam
2 carrier system

Visible Screen Size (approx.)

32ins 76cm
36ins 86cm

Display

16:9 aspect ratio

Sound output (at 10% distortion)

Main 10W + 10W
Centre 10W
Woofer 13W
Surround 10W + 10W

Power consumption

as specified in EN60107-1 : 1997

32ins 145W
36ins 155W

Standby

32ins <2.5W
36ins <2.5W

Dimensions

(approx.) 32ins 55cm (H) 76cm (W) 56cm (D)
36ins 63cm (H) 86cm (W) 60cm (D)

Weight (approx.)

32ins 52kg
36ins 72kg

Headphone socket

3.5mm stereo

Accessories

Remote control
2 batteries
(UM-4, AAA, IEC R03 1.5V)
Surround speakers

Manufactured under license from Dolby Laboratories.

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