

TOSHIBA

20VL43

Owner's manual



stasia

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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...

The cold cathode fluorescent lamp in the LCD panel contains a small amount of mercury, 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.

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 110-240v AC 50Hz. An AC Adaptor is supplied with it and should be used for this equipment only. 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 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 by withdrawing the plug, 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 or hit the screen, push anything into holes, slots or any other openings in the case.

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.

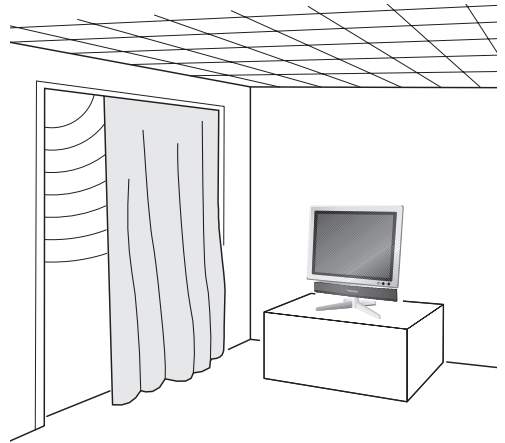
Installation and important information

Where to install

Locate the television away from direct sunlight and strong lights. Soft, indirect lighting is recommended for comfortable viewing. Place the TV on a sturdy platform, the mounting surface should be flat and steady. Use curtains or blinds to prevent direct sunlight falling on the screen.

The LCD panel can be inclined up to 5 degrees forward or 15 degrees backward for a more comfortable viewing angle. Alternatively a bracket is available to enable the screen to be wall-mounted.

The LCD display panels are manufactured using an extremely high level of precision technology, however sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.



Please take note

EXCLUSION CLAUSE

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

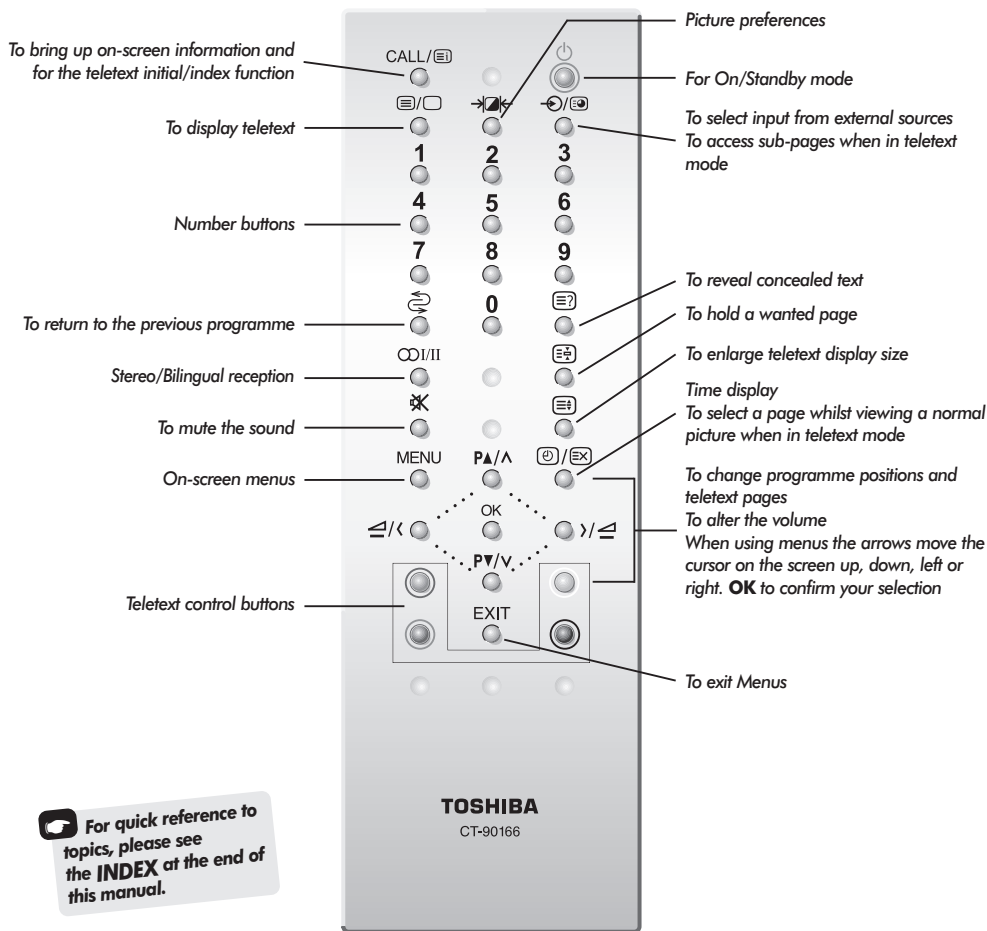
- i) fire;
- ii) earthquake;
- iii) accidental damage;
- iv) intentional misuse of the product;
- v) use of the product in improper conditions;
- vi) loss and/or damage caused to the product whilst in the possession of a third party;
- vii) any damage or loss caused as a result of the owner's failure 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.

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 conspicuous, it is always advisable to reduce both the brightness and contrast settings.

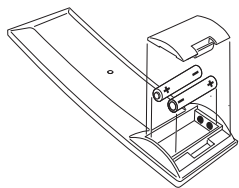
The remote control

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



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

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.

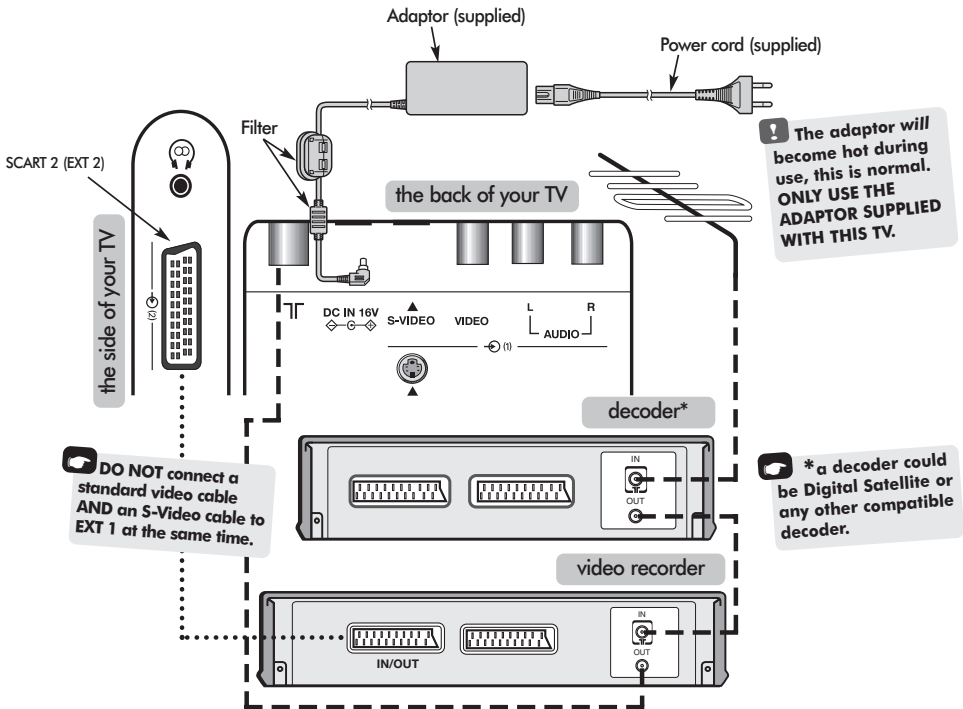
Suitable battery types for this remote are UM-4, AAA, IEC R03 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. 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. If the operating range becomes reduced the batteries may need replacing.

Connecting the power supply and external equipment

Before connecting any external equipment, turn off all main power switches. Make sure that all external equipment is connected to the TV BEFORE attaching the power supply.



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.


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

The phono sockets will accept video and audio L and R signals.

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 the Scart for a decoder and **EXT1** for a VCR.

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

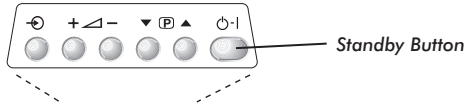
To recall external equipment, press  to select between **EXT1** or **EXT2**.

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

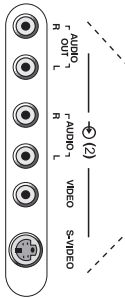
Connections and controls

A wide variety of external equipment can be connected via the sockets located on the side of the TV.

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.



Standby Button



DO NOT connect a standard video cable AND an S-Video cable to EXT 2 at the same time.



! DO NOT connect equipment to both the side  2 terminals at the same time.





RED - Standby
Green - On




Switching on

If the power-on light is unlit check the adaptor is connected and the power switched on.

To put the set into Standby press  on the remote control. To view the TV press  again. 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 menus.

The menu bar at the top of the screens 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 or adjust a setting. 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  .

When connecting mono sound equipment to **EXT2**, connect the audio output of the equipment to the L(Mono) socket on the TV.

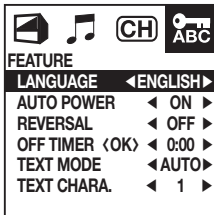
To select the Input, press  until the display shows **EXT1** as described on page 10. The TV will automatically sense the type of signal.

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

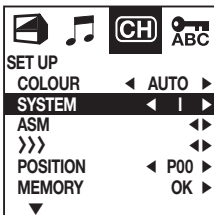
Choosing the language and system, tuning the TV with Automatic Search Memory (ASM)

Before switching on the TV put your decoder and video recorder to **Standby**. To set up the TV use the buttons on the remote control as detailed on page 5.

- 1 Press the '1' button to put the television into programme position 1.
- 2 Choose your language by pressing the **MENU** button then using < or > select the **FEATURE** menu.
- 3 Press ∇ or \blacktriangle to highlight **LANGUAGE**.

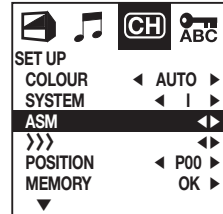


- 4 Using < or > select your **LANGUAGE** and press **MENU**.
- 5 Using < or > select the **SET UP** menu. Use ∇ or \blacktriangle to highlight **SYSTEM** then < or > to select your country's system.



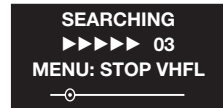
B/G – Continental Europe, **I** – UK
D/K – Eastern Europe, **L** – France

- 6 Press ∇ to highlight **ASM**, then < or > to start the **Automatic Search Memory (ASM)**.



- 7 The search will begin for all available stations. $\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ will flash and the bullet will move along the line as the search progresses.

You must allow the television to complete the search.



All active channels will preset automatically.

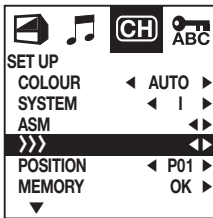
When the search is complete the TV will automatically select programme position 1. This may not be a clear picture or the signal may be weak, so the station order may be changed using Manual Tune (>>>).

Tuning the TV manually (>>>), programme skip

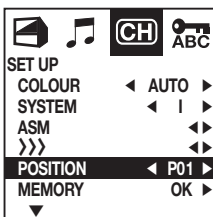
The TV can be tuned-in manually using >>>. The >>> function can be used to store channels that cannot be preset with ASM or to store channels one by one to specific position numbers.

Manual tune (>>>)

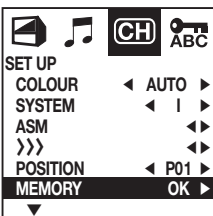
- 1 Press **MENU** and using < or > select the **SET UP** menu.
- 2 Press > to highlight >>>, then press < or >.



- 3 Press < or > until the required channel is found.
- 4 Use > highlight **POSITION** then using < or > select the position number required.



- 5 Use > to highlight **MEMORY**, then > or **OK** to store the channel.

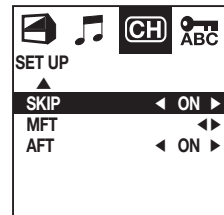


- 6 Repeat as necessary then press **EXIT**.

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 top, but the set will not show the skipped programme position.

- 1 View the the programme position to be skipped by selecting with the **P▲** (▲) and **P▼** (▼) buttons.
- 2 Press **MENU** and select the **SET UP** menu. Use ▲ or ▼ to highlight **SKIP**, then < or > to select **ON**.
- 3 Press **EXIT**.



Each programme position has to be *individually* selected. To turn **SKIP** off, repeat the procedure for each position.

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

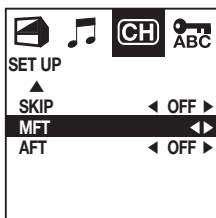
Manual and Automatic Fine Tuning (MFT/AFT), general controls, input selection

Manual Fine Tuning (MFT)

Manual Fine Tuning (MFT) should not be required unless interference is experienced or the signal is weak.

- 1 View the the programme position to be fine tuned using the **P▲** (▲) and **P▼** (▼) buttons.

Press **MENU** and select the **SET UP** menu. Use ▲ or ▼ to highlight **MFT**.



- 2 Press ◀ or ▶ and hold until the best picture and sound are obtained. While the TV is fine tuning ◀ or ▶ will flash. Press **EXIT**.

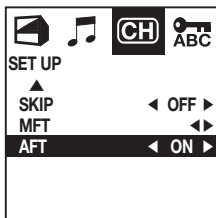
PLEASE NOTE: Automatic Fine Tuning (AFT) is automatically set to OFF whilst the TV is manually fine tuning.

Automatic Fine Tuning (AFT)

Automatic Fine Tuning (AFT) automatically corrects slight fluctuations in the broadcast signal.

- 1 View the the programme position to be fine tuned by selecting with the **P▲** (▲) and **P▼** (▼) buttons.

Press **MENU** and select the **SET UP** menu. Use ▲ or ▼ to highlight **AFT**.



- 2 Press ◀ or ▶ to select **ON**. 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▲** (▲) and **P▼** (▼).

To revert to the previous programme position press **↶**.

To display on-screen information i.e. programme position, input mode or stereo/mono signal, press **CALL**.

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 **◻**/I/II 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 **◻**/I/II to select **DUAL 1**, **DUAL 2** or **MONO**.

Input selection

Use the Input Selection to view connected equipment if the TV does not switch over automatically.

- 1 Press **↶** to select **EXT1** or **EXT2**.

EXT1: **↶1** displays equipment connected to the terminals on the back of the TV.

EXT2: **↶2** displays equipment connected to the terminals on the sides of the TV.

- 2 To return to TV mode press **↶** again or one of the numbered buttons.

Sound controls, WOW surround the timer, time display

Sound controls

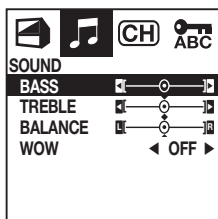
Volume

Press - () or + () to adjust the volume.

Sound Mute

Press once to turn the sound off. To restore the sound press again or press either - () or + ()

Bass, Treble and Balance

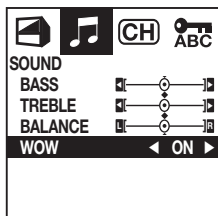


- 1 Press **MENU** and or to select **SOUND**.
- 2 Press to highlight **BASS**, **TREBLE** or **BALANCE** and or to change the setting.

WOW (sound effect)

WOW surround widens and deepens the sound from the TV speakers, using stereo signals from the TV broadcast or video input.

- 1 Press **MENU** and select the **SOUND** menu.
Use or to highlight **WOW** then press or to select **ON** or **OFF**.



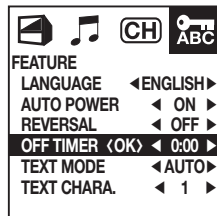
NOTE: SRS, WOW, SRS and (●)® symbol are trademarks of SRS Labs. Inc.

SRS WOW technology is incorporated under license from SRS Labs. Inc.

The Timer

The TV can be set to turn itself **Off** after a certain time.

- 1 Press **MENU** and or to select the **FEATURE** menu.



- 2 Press or to select **OFF TIMER**, then use or to select the time.

Each press of the button will increase/decrease the time in steps of 30 minutes, up to 3 hours.

- 3 Press **OK**.

To cancel the **OFF TIMER**, select 0:00 then press **OK**.

The Timer Display

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

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

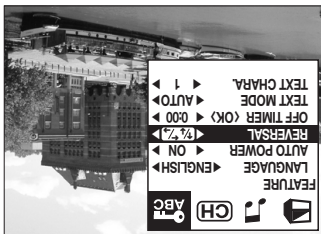
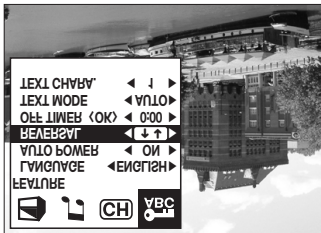
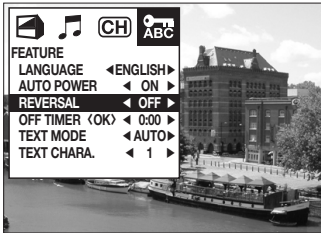
It will remain on screen for about 5 seconds.

Picture controls

Reversal

The **REVERSAL** feature reverses and/or inverts the on-screen menu and screen image.

- 1 In the **FEATURE** menu press \wedge or \vee to highlight **REVERSAL**.
- 2 Press \leftarrow or \rightarrow continuously for the required position.

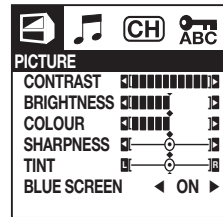


Picture preferences

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

\rightarrow 01 \leftarrow to \rightarrow 03 \leftarrow are preset options and \rightarrow 0M \leftarrow stores your own settings:

- 1 Select the **PICTURE** menu.



- 2 Press \wedge or \vee , then \leftarrow or \rightarrow to select and adjust the **CONTRAST**, **BRIGHTNESS**, **COLOUR**, **SHARPNESS** and **TINT**.

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

Blue screen

When **BLUE SCREEN** is selected the screen will turn blue and the sound will be muted when no signal is received.

- 1 In the **PICTURE** menu press \wedge or \vee to highlight **BLUE SCREEN**.
- 2 Press \leftarrow or \rightarrow to select **ON** or **OFF**.

Auto Power

If **AUTO POWER** is selected the TV will automatically switch to standby after a period of approximately 15 minutes, when a station has finished transmitting or if tuned to a vacant channel.

- 1 In the **FEATURE** menu press \wedge or \vee to highlight **AUTO POWER**.
- 2 Press \leftarrow or \rightarrow to select **ON** or **OFF**.

PLEASE NOTE: this feature does not work in **VIDEO** mode.

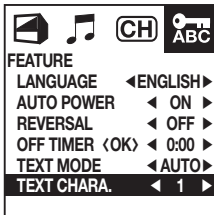
Teletext – setting up, general information, AUTO and LIST modes

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.

Selecting Modes and Characters

Before using teletext select the correct alphabet and choose which mode, **AUTO** or **LIST**, to view in.



- 1 Select **TEXT MODE** from the **FEATURE** menu.
- 2 With **<** or **>** choose **AUTO** or **LIST**.
- 3 Press **▼** to highlight **TEXT CHARA.**, then **<** or **>** to select the required character set.



CHARACTER-1 for Western European countries and Turkey
CHARACTER-2 for Eastern European countries

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 can be chosen without changing the page on screen. Press , **S****** will appear in the top left of the screen, enter the number required i.e. S0002, it may take some time to display.

The sub-page will remain in 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

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.

To store the pages press the **RED** button once, then press and hold until the pages flash white. **All four page numbers showing at the bottom will be stored and the previous ones will be lost.**

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

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:

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



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

Q Why is there no sound or picture?

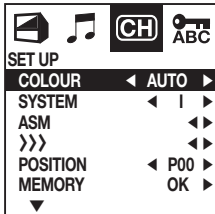
A Check the mains switch is on and check all connections.
Check the TV is not in standby mode.

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 With the external source playing, select **COLOUR** from the **SET UP** menu.



- 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 correctly, 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 What else can cause a poor picture?

A Interference or a weak signal. Try a different TV station. **MANUAL FINE TUNING (MFT)** may help.

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

A Connect the source via a Scart lead and play. Select **COLOUR** from the **SET UP** menu.

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

Q Why doesn't the remote control work?

A Check the batteries aren't dead or inserted incorrectly.

Q Why is there a message permanently on the screen?

A Remove it by pressing **CALL**.

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).

Subject	INDEX	Page	Subject	INDEX	Page
Auto Power		12	Picture preferences		12
Automatic Fine Tuning (AFT).....		10	Programme selection.....		10
Automatic Search Memory (ASM).....		8	Programme skip.....		9
Balance		11	Questions and Answers.....		15
Bass.....		11	Remote control.....		5
Bilingual broadcast		10	Reversal.....		12
Blue screen.....		12	Scart		8
Brightness.....		12	Sharpness.....		12
Broadcast system.....		8	Sound mute.....		11
Colour.....		12	Standby.....		7
Colour system		15	Stereo.....		10
Connections – side		7	Switch on TV		7
Connections – back		6	Teletext.....		13
Contrast		12	Time display		11
Controls.....		7	Timer		11
Headphone socket		6	Tint.....		12
Input selection		10	Treble.....		11
Installation		4	Tuning – Automatic Search Memory (ASM).....		8
Language		8	Tuning – Manual tuning (▶▶▶).....		9
Manual fine tuning (MFT)		10	Volume.....		11
Manual tuning (▶▶▶)		9	WOW		11
Mono.....		10			

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, 4.43, 3.58

External connections

EXT1	Input	Phono jacks	S-video Audio L + R
EXT2	Input/Output (Right side) Input (Left side)	21-pin Scart Phono jacks	RGB, A/V S-video Video + Audio L + R
Fixed Output		Phono jacks	Audio L + R

Programme Positions

Programme Positions	100
Stereo	Nicam 2 carrier system
Sound output (at 10% distortion)	Main 2.5W + 2.5W
Visible Screen Size (approx.)	20ins
Display	TFT Active Matrix LCD VGA: 640(H) dots x 480 (V) dots
Adaptor rated voltage	100V-240V AC 50/60Hz.
Power consumption as specified in EN61017-1 : 1997	60W
Standby	1.6W
Dimensions (approx.)	53cm (H) 50cm (W) 20cm (D)
Weight (approx.)	6.4kg
Headphone socket	3.5mm stereo
Accessories	Remote control 2 batteries (UM-4, AAA, IEC R03 1.5V) Power cord AC Adaptor (only for use with this TV)

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Specification is subject to change without notice.

Originated by Kensa Creative Solutions, Saltash, Cornwall.

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