



TOSHIBA

**28ZT29B
32ZT29B
36ZT29B**

**integrated digital
terrestrial
colour television**

owner's manual



For quick reference please see the **INDEX** at the back of this manual.

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For your safety

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your 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 the TV from overheating and consequential possible damage to the TV. Dusty places should also be avoided.

Heat Damage...

Damage may occur if you leave the TV 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...

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T 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.

DON'T allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DON'T 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.

DON'T 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.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T 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.

DON'T 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.

Please see pages 41 and 42 for full details of the on-screen MENUS.

Your new television's remote control

To bring up on-screen information and for the teletext initial/index function

To display ANALOGUE text services

For On/Standby mode

Number buttons

Turns DIGITAL subtitles on and off

To select input from external sources

To display DIGITAL text services

To display the DIGITAL on-screen programme information

To access the DIGITAL operation menus

To display the DIGITAL on-screen programme guide

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

To change teletext pages
When using menus the arrows move the cursor on the screen up, down, left or right. **SELECT** to confirm your selection

To access the ANALOGUE and general operation menus

Teletext control buttons

To change programme positions up and down/Favourite DIGITAL up and down

To exit menus

Volume control

Select equipment operation. You can also operate a TOSHIBA VCR and DVD

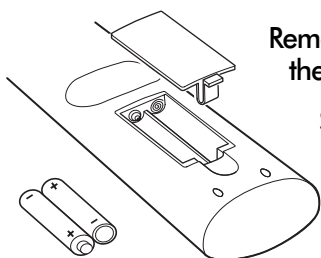
To mute the sound

When in VCR or DVD mode:
 press **||** to PAUSE
 press **▲** to EJECT
 press **◀◀** to SKIP-REWIND
 press **▶▶** to SKIP-FORWARD
 press **▶** to PLAY
 press **■** to STOP
 press **◀◀** to REWIND
 press **▶▶** to FAST FORWARD

To switch between ANALOGUE TV: ATV and DIGITAL TV: DTV press this button

When in TV mode:
 ▼ Still picture
 ATV/DTV Analogue/Digital mode
 ◀▶ Picture preferences
 ⏏ Widescreen viewing
When in Analogue Teletext mode:
 ☰ To reveal concealed text
 ☰ To hold a wanted page
 ☰ To enlarge teletext display size
 ☰/☒ To select a page whilst viewing a normal picture

The batteries... and the effective range...



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

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

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

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 the speakers

! WARNING: do not attempt to share external speakers with your Hi-Fi as serious damage may occur.

When connecting external speakers always make sure that the power is OFF.

In order to enjoy the full benefits of Surround Sound it is necessary to connect two rear surround speakers and two front extension speakers.

When connecting external front Hi-Fi speakers, they must be 8 ohm, 10W minimum and the rear Surround speakers must be 8 ohm, 10W minimum.

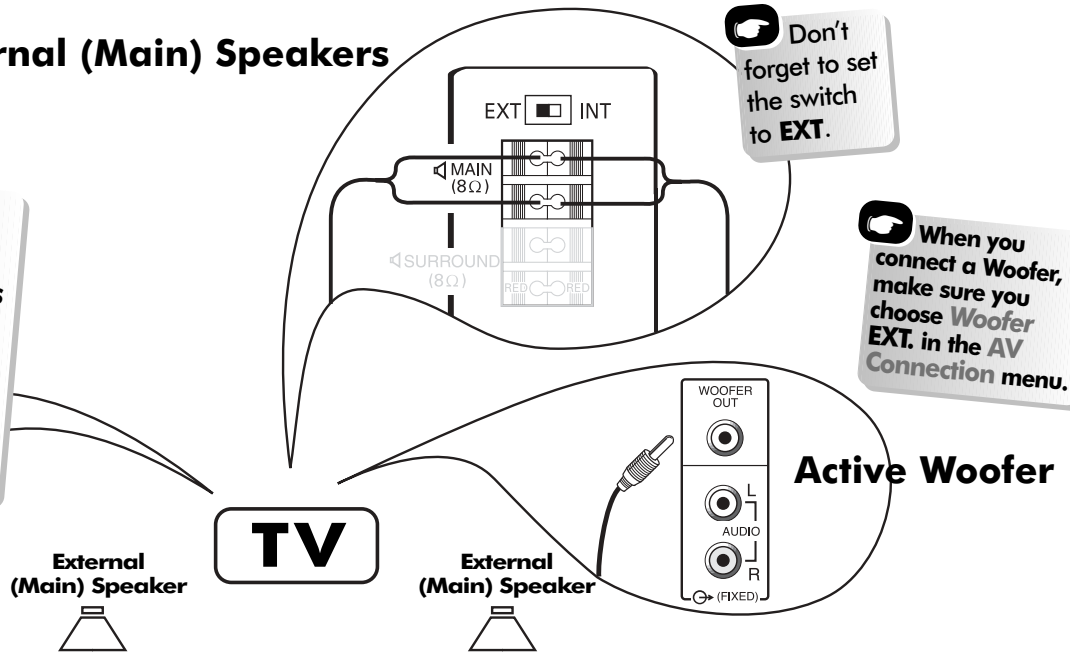
The front speakers should be positioned either side of the TV and will deliver the left and right sound. The internal speakers will then deliver the centre channel required to enjoy Dolby Digital.

External (Main) Speakers

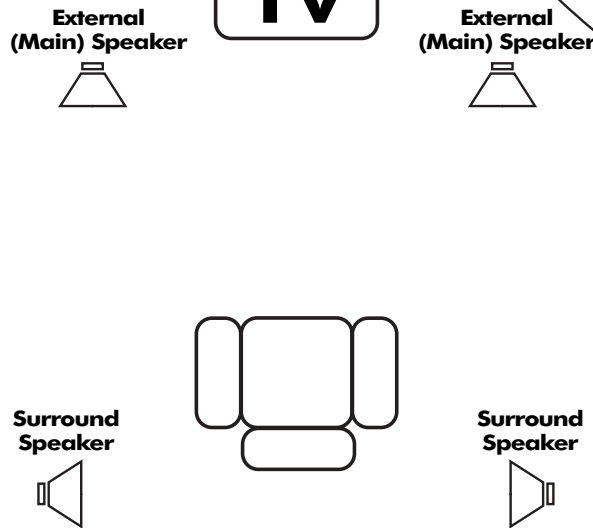
! Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

! Don't forget to set the switch to EXT.

! When you connect a Woofer, make sure you choose Woofer EXT. in the AV Connection menu.

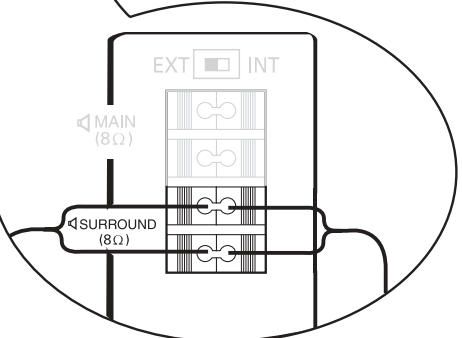


! These are suggested positions only. Place your speakers to suit and adjust the balance as necessary.



In order to enjoy the sensations of Surround Sound TV it is necessary to connect the two Surround Speakers. These speakers and cables are supplied and should be sited in line with the normal viewing position. To connect the Surround Speakers simply press the connector and insert the cable.

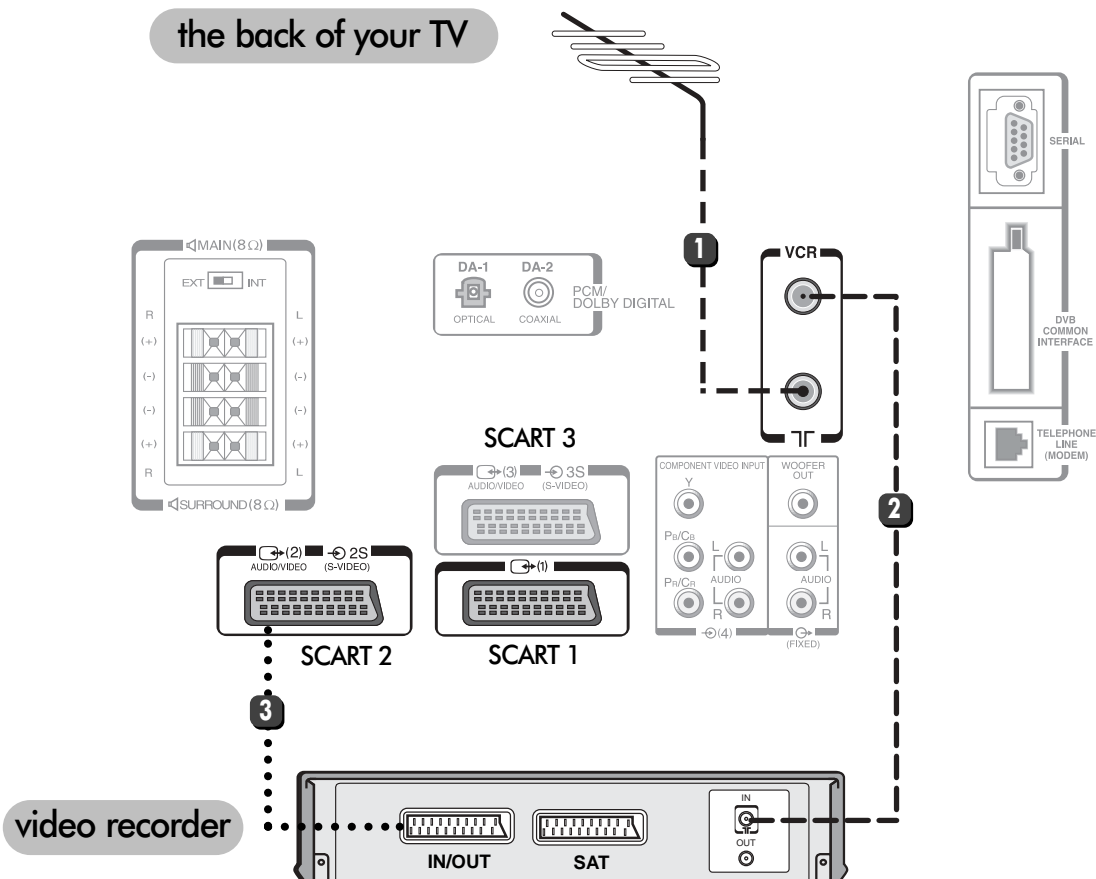
Surround Speakers



Connecting and turning on your new TV

To conserve energy it is best to turn your TV off, although remember to leave it in Standby if the *timer* has been set to record a digital broadcast.

The TV back connections...




Before connecting any external equipment always make sure that the power is OFF.

CONNECT THE AERIAL TO THE SOCKET ON THE BACK OF THE TELEVISION.

When connecting your video recorder you must use a full 21-pin SCART lead **AND** an aerial cable.

Before running *Auto Tune* put your video recorder to Standby.

- 1 The **AERIAL** *must* go into the socket marked  on the back of the TV.
- 2 **AERIAL CABLE** from the TV socket (marked VCR) to **AERIAL IN** on back of the VCR.
- 3 **SCART LEAD** from Scart 2 on the back of the TV to the **IN/OUT SCART** socket on the back of the VCR. *Without this, you will not be able to view videos or record digital programmes.*

! If you connect the VCR to either Scart 1 or 3 on the back of the TV, the VCR will not respond to any timer events.

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

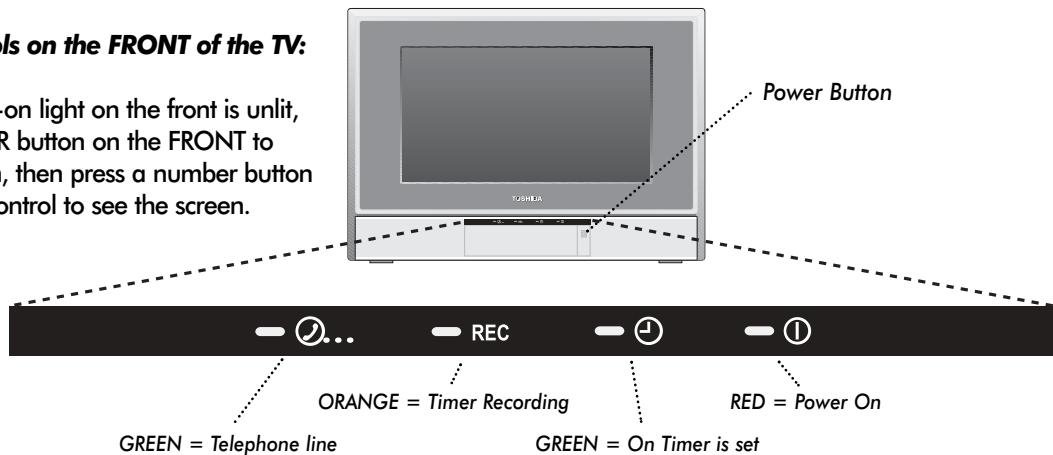
Connecting and turning on your new TV continued

...and switching your new TV on

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With the controls on the FRONT of the TV:

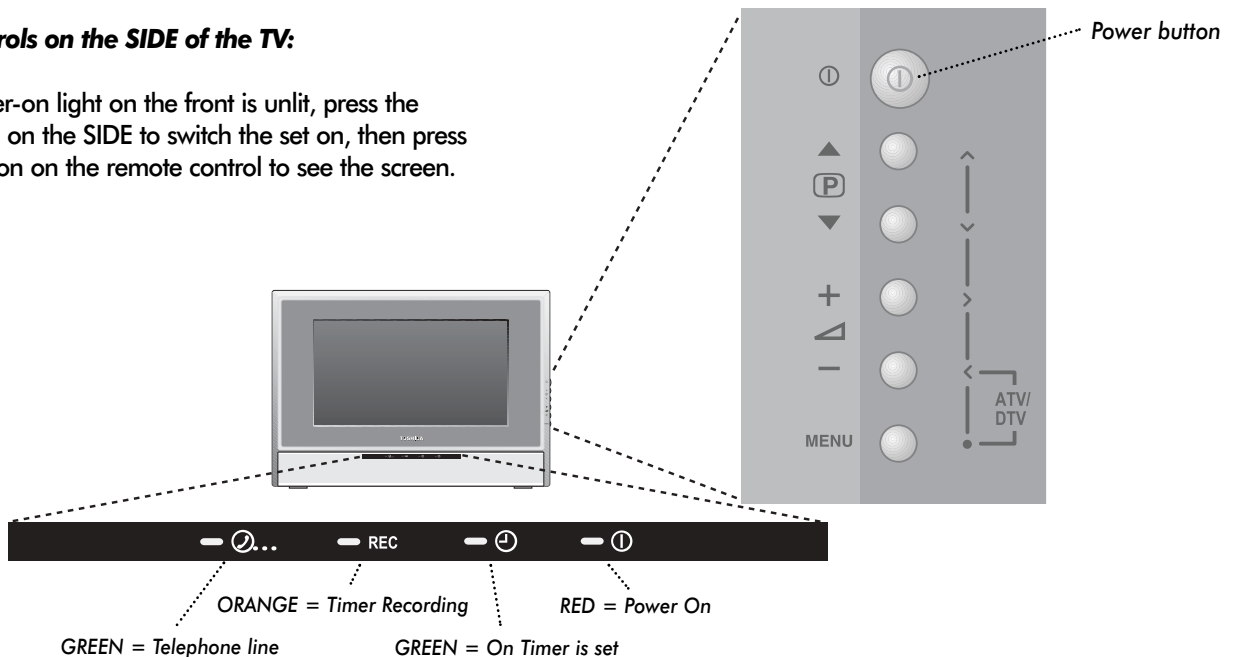
If the red power-on light on the front is unlit, press the POWER button on the FRONT to switch the set on, then press a number button on the remote control to see the screen.



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With the controls on the SIDE of the TV:

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



...and with the remote control:

Press the Standby Button 

This allows you to put the set into standby mode when leaving the TV unattended for short periods of time. To return to TV mode press the  button, or any of the numbered buttons on the remote control.

The picture may take a few seconds to appear.



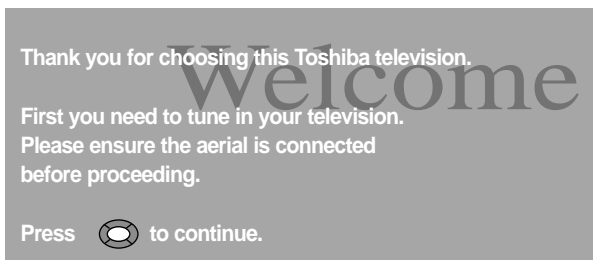
digital auto tune

The very first time you switch on your new **Digital TV** you will see a welcome screen. At all other 'power-on' times your TV will perform a comprehensive self test before displaying a picture. This may take up to 20 seconds and reduces the possibility of encountering errors while viewing the many **digital** programmes.

auto tuning the digital services



1 The very first time you turn on your Toshiba TV you will see the **welcome** screen...



2 It will remind you that the aerial must be connected.

3 Press **SELECT** on the remote control to begin tuning in the **digital** services.

4 The **REPLACE EXISTING SERVICES** screen will come up and the red progress bar will track the programmes being found.



! The list will show **ALL available programmes** - whether you have subscribed or not. However, you will not be able to view those needing subscription.

5 When the search is complete, the total number of services found will momentarily be displayed.



6 The screen will go blank for a few seconds before showing the **SERVICE LIST**. The programme highlighted in this list will be the one showing on the TV.



The menus will guide you as to which buttons on the remote control to press.

7 From the **SERVICE LIST** you can:
 Move **Up/Down** the list with the **↓** and **↑** buttons;
 Deselect/Select a **Favourite** with **←** or **→** buttons (see page 9);
Remove a programme by pressing the **RED** button;
Go To a programme by pressing the **SELECT** button.

If you remove a programme by mistake run **Add New Services**. See page 10.

Continued on the next page...

! Please note: If you get a poor picture, i.e. loss of definition and the picture appears to be made up of blocks, your aerial may need adjusting or upgrading.

digital favourites and re-ordering

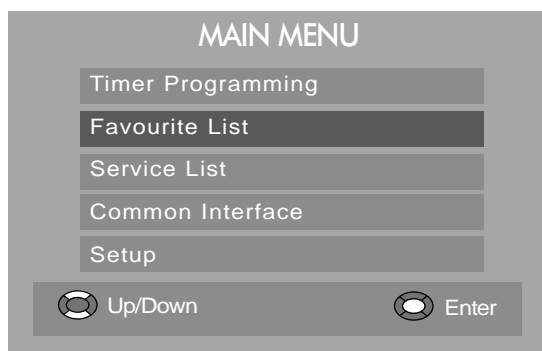
You can create a list of **digital** programmes that you favour to watch and then use the **▲ P ▼** buttons for quick access to them, skipping the programmes in between. You can also change the order of them.

selecting and re-ordering favourite **digital** programmes



In DTV mode, when you first tune-in digital, ALL the programmes will be selected as Favourites. You can edit the FAVOURITES LIST by removing those you won't watch regularly.

- 1 Press the **DTV MENU** button to bring up the **digital MAIN MENU**.



- 2 With the **▼** button, highlight **Favourite List**. Then press the **SELECT** button.

FAVOURITES LIST		
Programme		Service
001	BBC ONE	TV
002	BBC TWO	TV
003	ITV 1	TV
004	Channel 4	TV
005	Channel 5	TV
006	ITV 2	TV
007	BBC CHOICE	TV
009	Teletext	Data
010	BBC FOUR	TV
011	BBC NEWS 24	TV

Up/Down Remove
 Go To Re-order

- 3 In this **FAVOURITES LIST** use the **▼** or **▲** button to highlight a programme which you wish to remove.
- 4 Remove the programme by pressing the **RED** button.
- 5 Repeat until you are left with a list of your favourite programmes. Press the **EXIT** button when you have finished. Now, when using the **▲ P ▼** buttons on the remote control, only those in your list will be accessed.

If you remove a programme by accident, go to the **Service List** in the **MAIN MENU**. Highlight the programme and with the **<** or **>** button, turn **No** to **Yes**. The programme may be put back at the **end** of the **FAVOURITES LIST**. To re-order the list, see below.

re-ordering **digital** programmes

You can re-order the programmes in the **Favourite List** so that when you use the **▲ P ▼** buttons, the programmes come up in the order you wish.

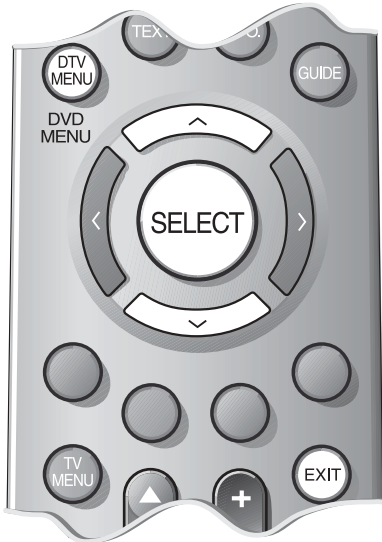
- 1 From the **Favourite List** use the **▼** and **▲** buttons to highlight the programme you wish to move.
- 2 Press the **YELLOW** button to **Re-order** and the wording will turn yellow.
- 3 Use the **▼** and **▲** buttons to move the programme to your preferred position.
- 4 And press **SELECT** to confirm the new position.
- 5 Repeat for any others and then press **EXIT**.

digital re-tuning



Digital re-tuning allows you to add new services that are broadcast or to completely re-tune; for instance, after moving house. To keep up-to-date with the latest free-to-view channels you must re-tune regularly.

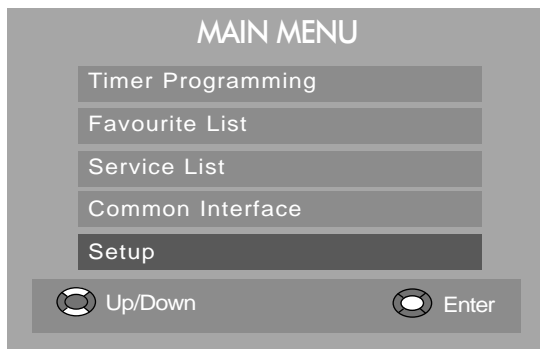
digital adding channels and re-running auto tune



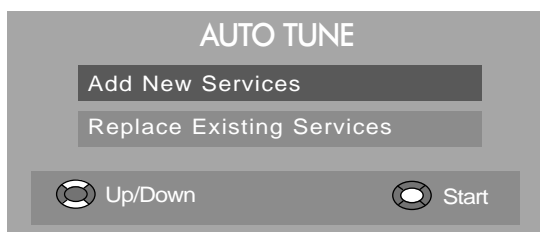
adding new services

This procedure will enable the TV to search for any new services available.

- 1 Press the **DTV MENU** button to bring up the **MAIN MENU**. With the **▼** button highlight **Setup**.



- 2 Now press the **SELECT** button.
- 3 With the **▼** or **▲** button highlight **Auto Tune** and press **SELECT** again.



- 4 With **Add New Services** highlighted press **SELECT**. Your existing list will come up and the TV will now search for any new services available.

The red bar will show the progress being made.



EXIT Exit

- 5 When the search is complete, the number found will be detailed at the bottom and any new services found will be added to the **SERVICE LIST**. From here you can add to your **Favourites** as previously detailed.

- 6 Press **EXIT** to finish.

If any station is **Locked** (see page 23) you will be asked for your **PIN** before you are able to re-tune.

re-running auto tune

When running Auto Tune all previous settings will be lost.

- 1 Press the **DTV MENU** button to bring up the **MAIN MENU**. Use the **▼** or **▲** button highlight **Setup**. Press **SELECT**.
- 2 And again, with the **▼** or **▲** button highlight **Auto Tune** and press **SELECT**. Highlight **Replacing Existing Services**.
- 3 Now press the **SELECT** button to start **Auto Tune**.
- 4 The search will commence for all available **digital** services.
- 5 When the search is complete, the screen will momentarily go blank before the **SERVICE LIST** appears and you can set **Favourites**. See pages 8/9.
- 6 Press **EXIT** when you have finished.

analogue auto tune and manual tune

! ...Remember... for ANALOGUE operation after DIGITAL operation, you must have pressed the ATV/DTV button

Auto tuning searches for all the available **analogue** stations. As an alternative to **auto tune**, you can tune-in your **analogue** stations manually.

tuning-in your **analogue** stations



Until you tune-in analogue channels, when you press the ATV/DTV button you will see the Auto Tuning prompt. You will need to run Auto Tune to be able to watch analogue programmes whilst recording digital TV.

Auto tuning

You have selected analogue TV for the first time.

Press **SELECT** to start the tuning for Analogue TV channels.

This will take 2 to 3 minutes

- 1 Press the **SELECT** button on the remote control to begin the search for available **analogue** stations.
▶▶▶▶▶ will flash and the bullet will move along the line as the search progresses.

Auto tuning

! ...allow the television to complete the search.



EXIT : To exit

- 2 When the search is complete the TV will automatically return to programme position 1.
- 3 If the picture is not clear you can change the station order, using **Programme sorting**, on page 14.

analogue manual tuning

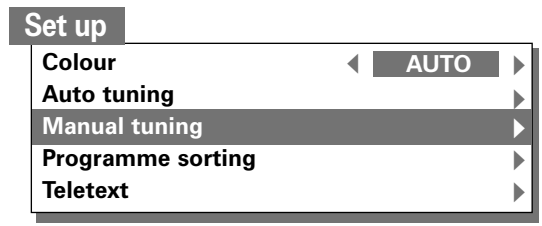
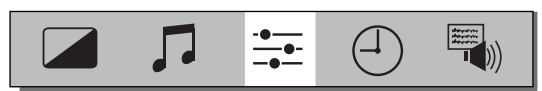
Several functions are included in the manual tuning menu and are covered on the next few pages.

These options will appear as you move across the screen:

Programme	System	Search	Programme skip/Channel	Manual fine tuning	Station
Programme:	System:	Search:	Programme skip:	Channel:	Manual fine tuning:
Station:					

The table provides detailed descriptions for each option, such as 'Programme: The number to be pressed on the remote control.' and 'Station: Station identification. You can use the ^ and v or < and > buttons to enter up to seven characters.'

- 1 Press the **TV MENU** button to display the **analogue** menu bar. Use the **<** or **>** button to highlight **Set up** from the top bar.
- 2 Now with the **^** or **v** button, highlight **Manual tuning** in the menu options and the **>** button to select.



EXIT : To exit

analogue manual tune continued

! ...Remember... for ANALOGUE operation after DIGITAL operation, you must have pressed the ATV/DTV button

analogue manual tuning



3 Using the **▲** or **▼** button, highlight the programme position you require e.g. we suggest **Prog. 6** for a local channel.

Manual tuning

Prog.	Sys.	Channel ▲	Station
1	I	22	BBC1
2	I	28	BBC2
3	I	25	ITV
4	I	32	CH4
5	I	37	CH5
6	I	* 69	

SELECT : To select **EXIT** : To exit

4 Press **SELECT** to select.

Manual tuning

System
6 I * 69 0

SELECT : To store **EXIT** : To exit
MENU : To return

5 Press the **▶** button to select **System** and use **▲** or **▼** to ensure **I** is selected. (The system option will not need to be changed again for the UK.)

6 Now press the **▶** button again to select **Search**. Press the **▲** button to begin the search. **Searching** will flash and the television will show the channel numbers whilst the search is progressing.

Manual tuning

Searching
6 I >>> * 32 0

SELECT : To store **EXIT** : To exit
MENU : To return

7 On finding a signal it will show on the television, if it is not the channel you want, press the **▲** button again to restart the search.

8 When the required signal is found, press the **▶** button to move to **Programme skip**. Press the **▲** or **▼** button to turn **Programme skip Off**. Press the **▶** button to move along to **Station**. With the **▲**, **▼**, **◀** and **▶** buttons, put in the required characters to identify it. You can use up to seven characters.

Manual tuning

Station
6 I 39 0 LOCAL

SELECT : To store **EXIT** : To exit
MENU : To return

9 Now press **SELECT** to store.

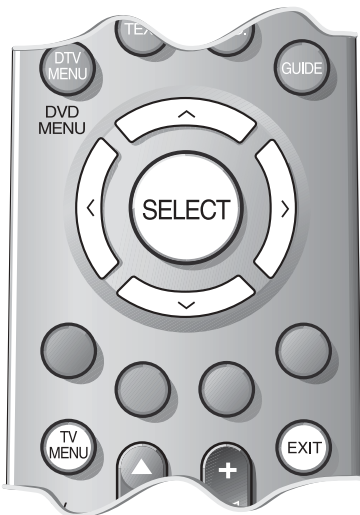
10 Repeat for each **programme position** you want to tune. Press the **▲** or **▼** button repeatedly to select the programme position, then repeat from **step 5**. Or, press **TV MENU** to return to the list of channels and select the next number to tune.

11 Press **EXIT** when you have finished tuning in.

PLEASE NOTE This TV has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in **Step 4**. Enter the **Programme number**, the **System**, then the **Channel** number. Press **SELECT** to store.

analogue programme skip

analogue programme skipping



To prevent certain programmes from being viewed, for example, a certain film by your children whilst you are out for the evening, you can skip the programme position and take the remote control with you. The television will still function as normal using the controls on the front of it, but the set will not show the skipped programme position.

- 1 Press the **TV MENU** button and from the top menu bar select **Set up**.
- 2 With the **▼** button highlight **Manual tuning**. And press the **➤** button to select the **Manual tuning** screen.

Manual tuning

Prog.	Sys.	Channel ▲	Station
1	I	22	BBC1
2	I	28	BBC2
3	I	25	ITV
4	I	32	CH4
5	I	37	CH5
6	I	39	LOCAL

SELECT : To select **EXIT** : To exit

- 3 Use the **▲** or **▼** button to highlight the programme position to be skipped and press **SELECT** to select.
- 4 With the **➤** button move along to **Programme skip**.
- 5 Use the **▲** or **▼** button to turn **Programme skip** : **On**. Press **SELECT** to store.

Manual tuning

Programme skip : On

2 I * 28 0 BBC2

* on the screen indicates a skipped programme position.

SELECT : To store **EXIT** : To exit
MENU : To return

- 6 Then press the **TV MENU** button and either repeat from **Step 3** or press **EXIT** to finish.

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

The **skipped** programme positions **cannot** now be selected by the **P▲** and **P▼** buttons or by the controls on the front of the TV, but can still be accessed by the number buttons on the remote control.

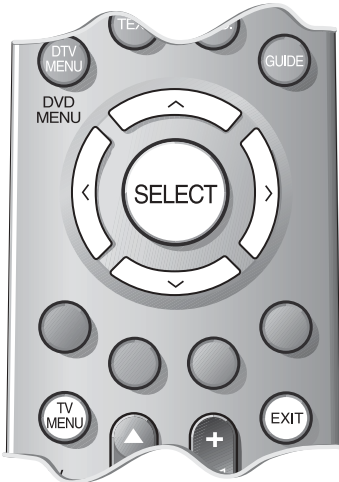
- 7 To turn **Programme skip OFF**, repeat the procedure on the chosen programme.

See page 22 for **Digital Parental Lock** functions

analogue manual fine tuning, programme sorting

After **analogue** tuning, if you want to change the position of certain programmes you can. **Programme sorting** is an easy way of storing each channel on the programme position of your choice.

analogue manual fine tuning



Manual fine tuning should not be required unless you experience interference or a weak signal.

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

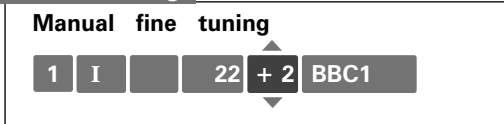
Manual tuning

Prog.	Sys.	Channel	Station
1	I	22	BBC1
2	I	28	BBC2
3	I	25	ITV
4	I	32	CH4
5	I	37	CH5
6	I	39	LOCAL

SELECT : To select **EXIT** : To exit

- 2 With the station highlighted, press **SELECT**.
- 3 Press the **right arrow** button repeatedly until the words **Manual fine tuning** are showing.

Manual tuning



SELECT : To store **EXIT** : To exit
MENU : To return

- 4 With the **up** or **down** button adjust to get the best picture and sound.
- 5 Press **SELECT** to store and then **EXIT**.

analogue programme sorting

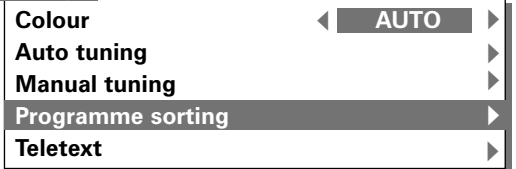
- 1 Press the **TV MENU** button and then the **left** or **right** button to select the **Set up** option from the top bar.



Set up

- 2 Press **down** to highlight **Programme sorting** and **right** to select.

Set up



EXIT : To exit

- 3 The list of stations is now showing. With the **down** or **up** button highlight the station you want to move and press **SELECT** to select.

As you do so 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	37	CH5
6	39	LOCAL

SELECT : To set **EXIT** : To exit

- 4 Use the **down** or **up** button to move through the list to your preferred position. As you do so the other stations will move to make room.
- 5 Now press the **SELECT** button to set your move.
- 6 Repeat as necessary and then press **EXIT**.

General controls

! Remember to press the **ATV/DTV** button to select between **DIGITAL** and **ANALOGUE** modes.

There are a number of ways to view and change programmes.

digital selecting and changing programmes **analogue**

Press the **ATV/DTV** button to select **digital** operation.

Then, use the number buttons on the remote control or...

...if **Favourites** have been chosen (see page 9) press the **▲ P ▼** buttons to enable you to view **only** your **favourite programmes** or...

...from the **DTV MAIN MENU** select the **Favourite List** or the **Service List** to view the programme list. Use the **▲** and **▼** buttons to highlight a programme and the **SELECT** button to go to that selected programme.



Press the **ATV/DTV** button again to view **analogue** broadcasts.

Press the **▲ P ▼** buttons or one of the numbered buttons.

A * on the screen indicates a **skipped** programme position. See page 13.

The programme position will be displayed on the screen with an indication of whether the broadcast is in Stereo/Mono.



The **CALL** button can be used to display or remove this at any time whilst watching the TV.



digital on-screen INFO

Pressing the **INFO** button whilst in digital mode will bring up on-screen information. Selecting **Next** will bring up the following programme's details. Selecting the **Now** option will bring up the current programme details.



digital on-screen GUIDE

Pressing the **GUIDE** button will bring up the TV GUIDE which has a picture preview and a **REMINDER** function.

! If you use the **▼ P ▲** buttons you will only see the programmes selected as **Favourites**, see page 9.



- 1** Press the **INFO** button once to bring up the basic details for the programme you are currently viewing. Press **INFO** again to bring up **More** information.
- 2** View the **Next** scheduled programme and its details by pressing the **▶** button. Pressing **◀▶** will take you back to the **Now** programme's details.
- 3** To view details of other programmes, use the **▼** and **▲** buttons and press **SELECT** to **Go To** that programme.
- 4** Press **INFO** to exit the on-screen guide.

- 1** Press the **GUIDE** button. Details of the programme you are watching, along with an audio/visual preview will come up.
- 2** Using **◀, ▶, ▼** and **▲** view **Next** and **Now** programme details from the list. Current programmes will show in the preview. Press **SELECT** to **Go To** the highlighted programme.
- 3** With a programme highlighted, press the **YELLOW** button to set a **Reminder** that will prompt you when the programme is about to start. Pressing **YELLOW** again will cancel it. You can only request one programme at a time. Then **EXIT**.
- 4** When the prompt appears, press **SELECT** to view it or **EXIT** to cancel.

Sound controls

! Remember to press the **ATV/DTV** button to select between **DIGITAL** and **ANALOGUE** modes.

Sound controls when in either **digital** or **analogue** mode.

analogue and digital sound controls



Sound menu

Volume:

- 1 Press the **+ / -** button to adjust the volume.

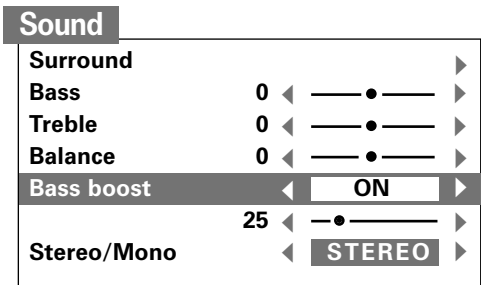


Sound Mute:

- 1 Press the **MUTE** button to turn the sound off.
- 2 Press it again and the sound will return.

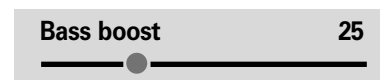
Bass Boost – to enhance the depth of sound

- 1 Press the **TV MENU** button and with the **<** or **>** button select the **Sound** option from the top bar.
- 2 Press the **▽** button to highlight **Bass boost** and with the **<** or **>** button turn it **ON** (or **OFF**).



- 3 Now, with the **▽** button highlight the adjustment bar on the line below and use the **<** and **>** buttons to alter then **EXIT**.

The difference will only be noticeable on sound with a strong bass.



When you connect a Woofer, make sure you choose **Woofer EXT.** from the second screen of the **AV connection** menu (see **Feature menu**), using the **▽** button. Then adjust as above.

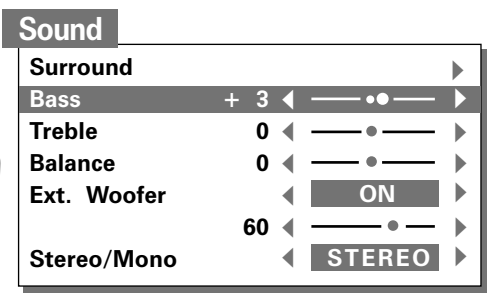


Bass, Treble and Balance adjustments

- 1 Select the **Sound** option.
- 2 Press the **▽** button to highlight **Bass**, **Treble** or **Balance**. Use the **<** and **>** buttons to alter the settings and **EXIT** when you have finished.

See pages 28-30 for the Surround options.

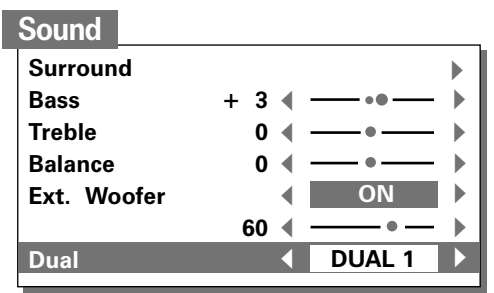
For analogue sound only, choose between **STEREO** and **MONO**.



Bilingual broadcasts

Bilingual transmissions are rare. If they are transmitted Dual will appear in the Sound menu.

- 1 Press the **▽** button to highlight **Dual**. Use the **<** and **>** buttons to select between **Dual 1**, **Dual 2** or **Mono**.



Picture controls

This television offers you the choice of personalising the picture style to suit your individual preferences when viewing in either **digital** or **analogue** mode.

Picture preferences, Scan mode, Digital Noise Reduction



The **Tint** may only be adjusted on a tape which has been recorded and played back on an NTSC video recorder, when in **AUTO** colour mode.

Within this Picture menu you have the options to adjust **Contrast, Brightness, Colour, Tint** or **Sharpness**.

- Using the **<** or **>** button alter to your taste.

Scan mode

Scan mode has four options. **NATURAL, ACTIVE** and **100Hz** settings run at 100Hz and reduce background flicker. The **NATURAL** setting will normally give the best pictures, but in programmes such as football matches, **ACTIVE** or **100Hz** may give a smoother result. **PROGRESS**. (Progressive) is 50Hz and is particularly suited to NTSC images.

- Select **Scan mode** from the **Picture** menu.
- With the **<** or **>** button select between **NATURAL, ACTIVE, 100Hz** and **PROGRESS**. to choose the picture you prefer – the difference may only be slight.

Picture preferences

This television offers you the choice of personalising the picture style to suit your own preferences. By pressing the **< button you can view the different picture styles available:**

Picture mode-1 to **3** for preset options and, **Picture mode-M** is for your own settings:

- So, to set your own, press the **TV MENU** button and select **Picture** from the top menu bar.



Picture

Contrast	50	< —•— >
Brightness	50	< —•— >
Colour	50	< —•— >
Tint	0	< —•— >
Sharpness	0	< —•— >
Scan mode		< NATURAL >
DNR		< AUTO >

EXIT : To exit

DNR – Digital Noise Reduction

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

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

Picture controls continued

Black Stretch, Picture size/position



Black Stretch

Black Stretch increases the strength of dark colours.

- To select **Black Stretch** from the **Picture** menu press the ∇ button until the lower section of the screen appears.
- Press the \leftarrow or \rightarrow buttons to select between **ON** and **OFF**. The effect depends on the broadcast and is most noticeable on dark colours.

Picture

Contrast	50	\leftarrow \rightarrow
Brightness	50	\leftarrow \rightarrow
Colour	50	\leftarrow \rightarrow
Tint	0	\leftarrow \rightarrow
Sharpness	0	\leftarrow \rightarrow
Scan mode		\leftarrow NATURAL \rightarrow
DNR		\leftarrow AUTO \rightarrow

Black Stretch \leftarrow ON \rightarrow

EXIT : To exit

Picture size/position

Adjustment to the position of the picture may be made to suit your viewing preferences.

- Press the **TV MENU** button and from the **Feature** menu highlight **Picture size/position**.



Feature menu

AV connection	\rightarrow
Picture size/position	\rightarrow
Surround set up	\rightarrow
Panel lock	\leftarrow OFF \rightarrow
Automatic format	\leftarrow ON \rightarrow
Blue screen	\leftarrow ON \rightarrow
* Geomagnetic	\leftarrow \rightarrow

EXIT : To exit

- Press the \rightarrow button to view the options available for the picture format you have selected (see page 20).
- With the ∇ and \wedge buttons, highlight an option and with the \leftarrow or \rightarrow button adjust the settings.
- Press **EXIT** when you have finished.

! The options available to you when in the **Picture size/position** screen will vary depending upon the widescreen format you have chosen, as detailed on page 20, and when viewing connected equipment.

In **Cinema**:

Picture size/position

\leftarrow Back	
Horizontal position	\leftarrow \rightarrow
Horizontal width	\leftarrow \rightarrow
Vertical position	\leftarrow \rightarrow
Vertical height	\leftarrow \rightarrow

EXIT : To exit

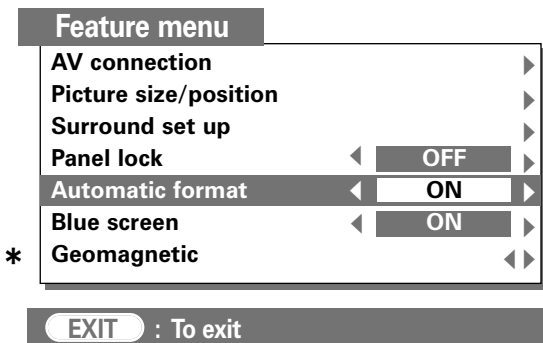
Picture controls continued

Automatic format, Blue screen, Geomagnetic adjustment, Still picture

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 settings.

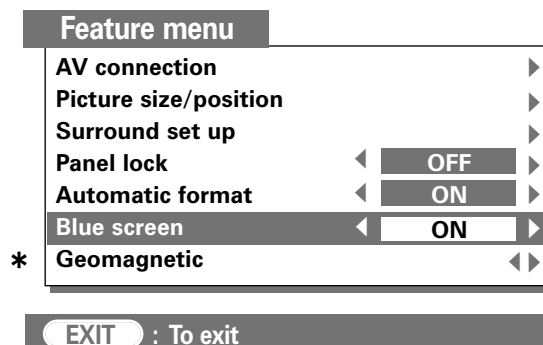
- 1 Press the **TV MENU** button and from the **Feature menu** highlight **Automatic format**.
- 2 Use the **<** or **>** button to turn **Automatic format** **ON** or **OFF**.



Blue screen

With **Blue Screen** set to **ON**, when no signal is being received, the TV will turn off the sound and switch the screen to blue. After 20 minutes the TV will switch to **Standby mode**.

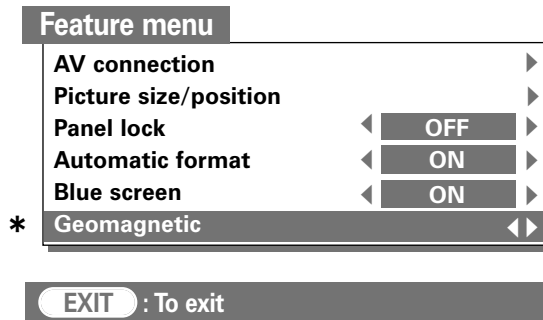
- 1 Press the **TV MENU** button and from the **Feature menu** highlight **Blue screen**.
- 2 Use the **<** and **>** buttons to select **ON** or **OFF**.



Geomagnetic adjustment (36ZT29B only)

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

- 1 Choose **Geomagnetic** from the **Feature menu**.
- 2 Press the **<** or **>** button to rotate the picture to its best position.



Still picture

Using the latest technology this television's **100Hz double scanning plus digital picture processing** produces a flicker-reduced picture. In addition, a still – similar to freeze frame on a VCR – can be held on the screen.

- 1 Pressing the **⏏** button will hold an image on the screen. Press **⏏** again to return to TV mode.

digital and analogue Widescreen viewing

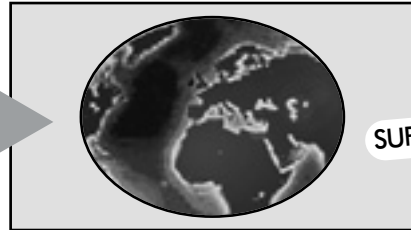
This set is capable of showing broadcasts in a number of formats. Depending on the type of broadcast being transmitted you may select between *Super live*, *Cinema*, *Subtitle*, *14:9*, *Wide* and *4:3*.



Press the  button repeatedly to view the options available.

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.

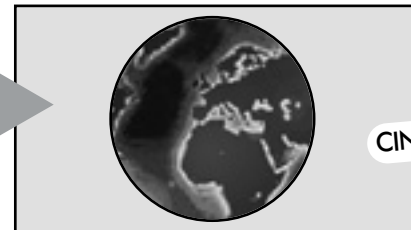


SUPER LIVE

Experiment with them all until you find a style that suits you...

CINEMA

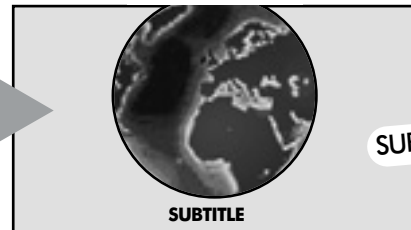
When watching 'letterbox format' films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.



CINEMA

SUBTITLE

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

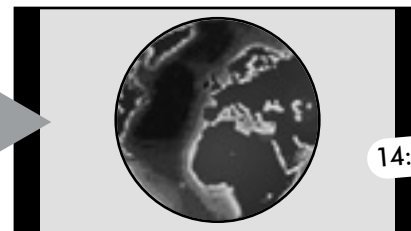


SUBTITLE

! Whenever the TV MENU button is pressed the picture size setting will change while the menus are ON the screen. This is to ensure the menus do not overlap the edges of the viewable area.

14:9

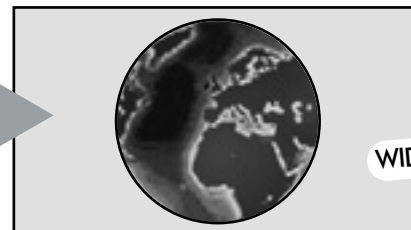
Use this setting when watching a 14:9 broadcast.



14:9

WIDE

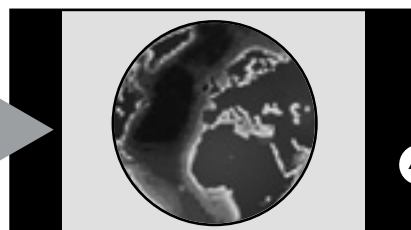
Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) you may see black bars on the top and bottom of the screen.



WIDE

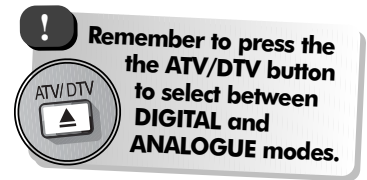
4:3

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



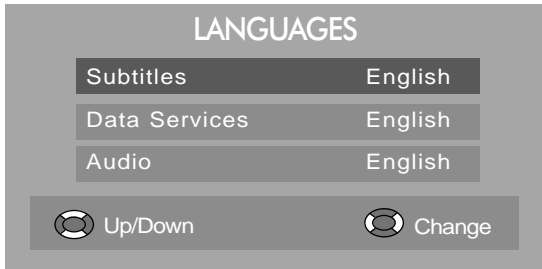
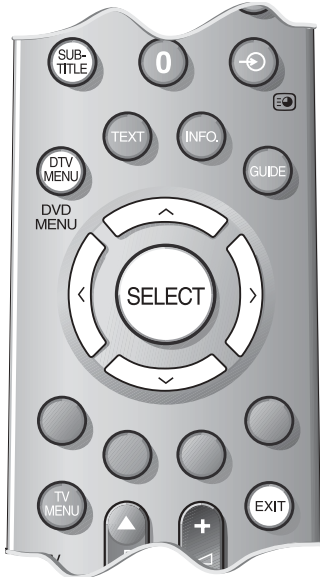
4:3

digital settings



You can set up your own viewing preferences in the following menus...

digital preferences



Languages

Choosing your preferred language for Subtitles, Data Services and Audio.

- 1 Press the **DTV MENU** button.
- 2 Using **▼** or **▲** highlight **Setup** and press **SELECT**.

- 3 With **Languages** highlighted, press **SELECT** again.
- 4 Using the **▲** or **▼** button, highlight **Subtitles**, **Data Services** or **Audio**.
- 5 Using the **◀** or **▶** buttons choose your preferred language. For **Subtitles** a **+** sign beside the language indicates extra descriptions, e.g. a door slamming.
- 6 Press **EXIT** when finished.

If your preferred language is not available, English will normally be the default. If there is loss of sound choose English for Audio and EXIT.

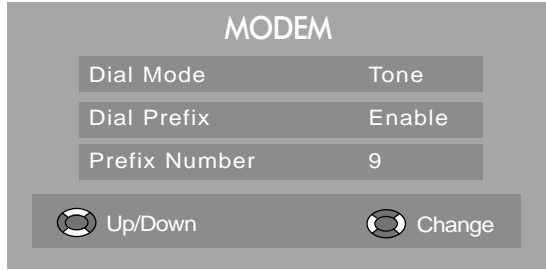
Subtitles

If you have chosen a language for subtitles, as above, each time you turn on your TV, subtitles will appear if broadcast. You can turn them off, or on again, by pressing the **SUBTITLE** button on the remote control.

If you have chosen **Off** for subtitles, each time you turn on your TV, subtitles will **not** appear. However, you can turn them on, or off again, by pressing the **SUBTITLE** button on the remote control.

Modem

- 1 From the **SETUP MENU** choose **Modem**.



Within this menu you can choose to **Enable Dial Prefix** for use in conjunction with a PABX system then set the necessary **Prefix Number**. For most homes, the **Dial Prefix** should be set to **Disable**.

- 2 Using the **▲**, **▼**, **◀** and **▶** buttons set your preferences and then press **EXIT**.

All items of telephone equipment have a Ringer Equivalence Number - REN - which is used to calculate the number of items which may be connected to any one telephone line. This TV has a nominal REN of 1. A total of 4 is allowed. If 4 is exceeded, then telephones and other equipment may not ring.

Parental control

By setting a security code, a **PIN**, you can use the **Censorship** and **Locked Services** options to prevent the viewing of certificated **digital** films and **digital** programmes.

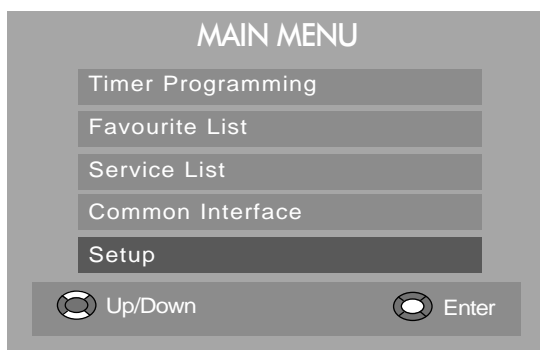
digital Parental Lock



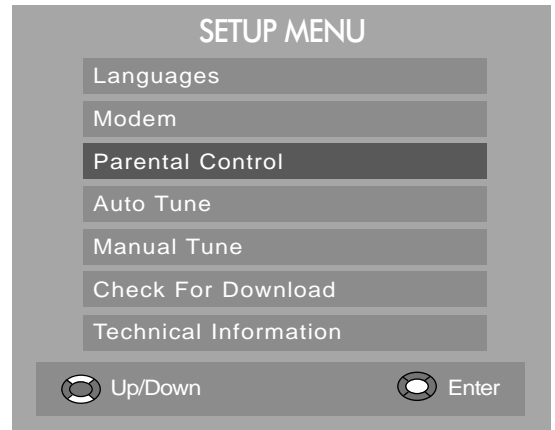
Setting up Parental Lock

To enable the **Parental Control** options, you need to first set up a security code, a **PIN**.

- 1 Press the **DTV MENU** button to bring up the **digital MAIN MENU**.
- 2 Highlight **Setup** and **SELECT**.

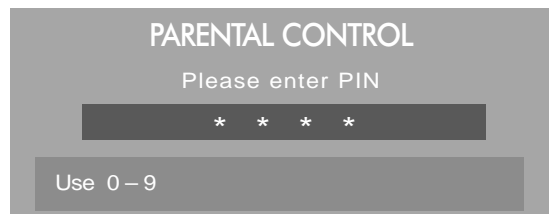


- 3 With the **^** or **v** button highlight **Parental Control**.



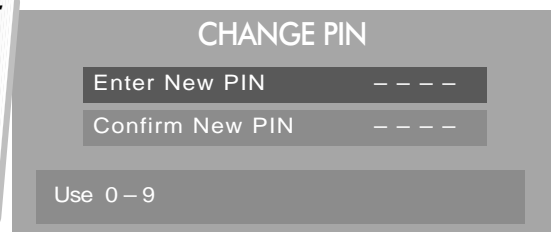
- 4 And press the **SELECT** button.

- 5 The factory setting is **1234**. You must enter this number first using the numbers on the remote control before proceeding.



- 6 You will now be able to choose your own **PIN**. In the **Parental Control** menu use the **v** button to highlight **Change PIN**. Press **SELECT**.

Remember to make a note of your number. You will need it if you want to change your PIN.



- 7 Now with the number buttons on the remote control, put in four numbers that you choose to be your **PIN**. You need to enter the same four numbers to **Confirm New PIN** and you will then see the options available for **Parental Control**.

YOU WILL NEED YOUR PIN IF YOU WISH TO UNLOCK A PROGRAMME OR TO RUN AUTO TUNE AGAIN.

Parental control continued

You can stop the viewing of **digital** films and other programmes.

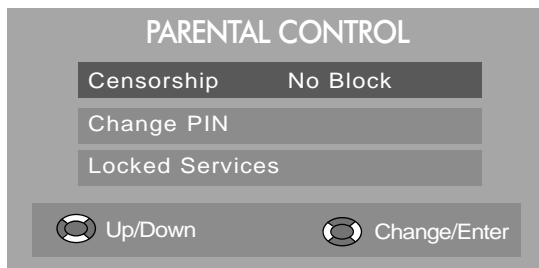
Using Censorship and Locked Services

Censorship

You can now censor the viewing of certificated films in digital mode. When the remote control or the buttons on the front of the TV are used, viewing can only take place if the PIN is known.

Within the **PARENTAL CONTROL** screen you can set the age at which you wish **Censorship** to start on **digital** broadcasts.

- Using the \blacktriangledown or \blacktriangle button highlight **Censorship**.



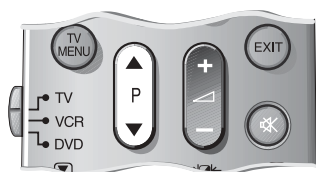
- With the \blacktriangleleft and \blacktriangleright buttons choose between **No Block, Age 5, Age 10, Age 15, Age 18** or **Total Block**.

The censorship will take effect.

So, for example, if you choose **Age 15**, and try to view a **digital Certificate 18** film the **CENSORSHIP ENABLED** screen will come up and the **PIN** will have to be entered for further viewing.

If the user *does not* have the **PIN**, the programme will not be viewable. Switching the TV off and then on again will *not* reset it.

To go to an *uncensored* programme use the \blacktriangle **P** \blacktriangledown or number buttons.

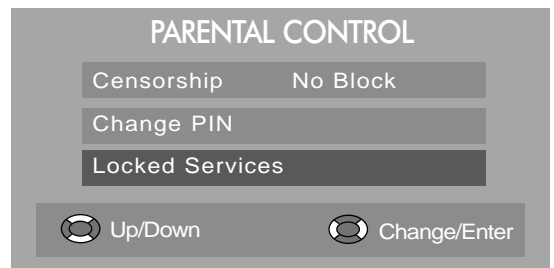


Locked Services

You can also stop the viewing of digital programmes

Also in the **PARENTAL CONTROL** screen, you can **Lock** programmes.

- Using the \blacktriangledown or \blacktriangle button highlight **Locked Services**.



- Press **SELECT** and the **LOCK / UNLOCK SERVICES** list will come up.



- With the \blacktriangledown and \blacktriangle buttons, highlight the programme(s) you wish to **Lock** and press **SELECT** to **Lock** them. (To unlock, highlight again and press **SELECT**.)

- Press **EXIT** and put the TV into standby to activate the lock.

If you want to view a locked programme the **PIN** will have to be entered again.

The timer, panel lock and time display

All these functions are for use in both **digital** and **analogue** mode.

The ON/OFF timer

You can tell the TV to turn itself ON or OFF after a certain time.

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



Timer

Off timer	00:30
On timer	00:00

0-9 : To set
EXIT : To exit

- 2 Select the **On timer** (or the **Off timer**). If, for example, you want the TV to turn ON (or OFF) in one and a half hours time, enter 01:30 using the numbered buttons on the remote control.

The TV will switch back on to the last programme position viewed.

- 3 If setting the **Off timer** press **EXIT**. If setting the **On timer** you must put the set into Standby mode by pressing the **⏻** button.

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

When the **On timer** has been set, the GREEN On timer indicator on the front of the TV will be lit (see page 7).

*If the **On timer** has been set, you do not have to wait to watch the television. You can bring the set back to life by pressing the **⏻** button. However, the GREEN timer light will stay on until the set time period has passed.*

Panel lock

Panel lock allows you to disable the buttons on the front of the TV. You can though, still use all of the buttons on the remote control.

- 1 From the **Feature** menu select **Panel lock** and then choose **ON** or **OFF** with the **<** or **>** buttons.



Feature menu

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

EXIT : To exit

*When **Panel lock** is ON, you will be reminded on the screen when you press any of the front panel buttons. Once the set has been switched off it can **ONLY** be brought out of standby using the remote control.*

Time display



The time display facility allows you to see the current time on the TV screen.

If you press the **⏻** **EXIT** button on the remote control whilst watching the TV you will see a time display from the broadcaster.

It will remain on the screen for about 5 seconds.

AV connections and input selection

Please see page 37 for a clear view of the back connection recommendations...

Defining your INPUT and OUTPUT sockets so that your television recognises connected equipment.



Most video recorders 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 repeatedly until you see the picture from your equipment. You must use this button to view equipment connected using the COMPONENT VIDEO INPUT (**EXT 4**).

Digital Audio on the screen indicates that the external source has been set as a digital audio input, see below. An S e.g. **EXT2S**, indicates the input is set for an S-Video signal.

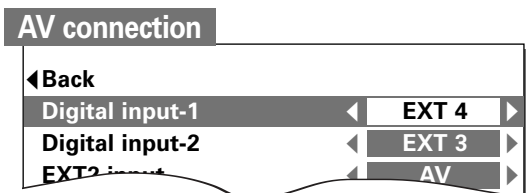
Input Selection

SELECTING THE DIGITAL AUDIO SIGNAL

This set is provided with 2 digital audio inputs – DA-1 and DA-2 – so that, for example, a DVD player and a games console can stay permanently connected.

Having connected the video signal from your DVD to, say, COMPONENT VIDEO INPUT (**EXT4**) and from your games console to Scart 3 (**EXT3**) you will now need to connect the audio cables to the inputs on the back of the set, then match the two up.

- 1 If you have connected to **DA-1** (optical), select **AV connection** from the **Feature menu** and press the button to highlight **Digital input-1** then with the or buttons, select the appropriate video input, for example **EXT 4** for the DVD player.



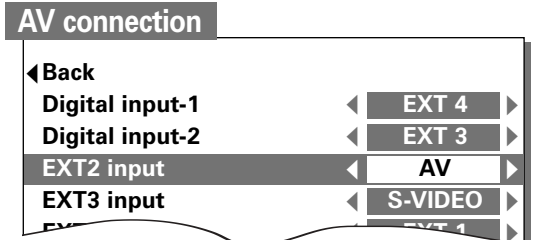
- 2 Then for the 2nd connection, press the button to highlight **Digital input-2** (coaxial) then with the or buttons, select the appropriate video input, for example, **EXT 3** for the games console.

Selecting the INPUT signal

This feature allows you to specify the type of signal going into Scarts 2 (**EXT 2**) or 3 (**EXT 3**) on the back of the television and the sockets on the front (which are also **EXT 3**). Please refer to the manufacturers' instructions for the connected equipment.

- 1 From the **Feature menu** select **AV connection** and with the or button select either **AV** or **S-VIDEO** as the required *input* for **EXT2** and **EXT3**.

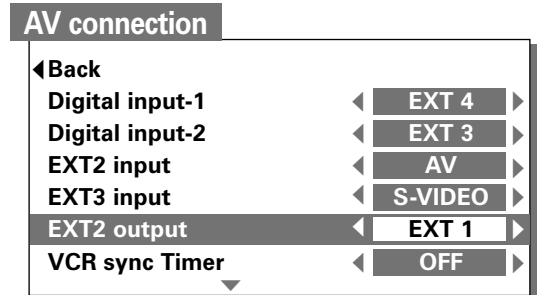
If the colour is missing try the alternative setting.



Selecting the OUTPUT signal for Scart 2

This feature enables you to select the source to *output* from Scart 2. e.g. If you connect a stereo decoder to Scart 1 and a stereo video recorder to Scart 2, and select **EXT 1** as the **EXT2** output (i.e. you will output the signal received through Scart 1 directly out to Scart 2), you will be able to record the stereo decoder transmission in stereo.

- 1 Again, from the **Feature menu** select **AV connection**.



- 2 With or change the **EXT2 output** option to:

- Monitor** = The picture on screen.
- TV** = The *last* television programme selected – **digital** or **analogue**.
- DTV** = The most recent **digital** programme selected.
- ATV** = The most recent **analogue** programme selected.
- EXT 1** = The picture from equipment connected to Scart 1.
- EXT 3** = The picture from equipment connected to Scart 3 or the front input sockets.

Recording digital broadcasts

In order to record digital broadcasts you must connect your video recorder to your television using a Full (21-pin) Scart lead. This Scart lead is connected to the Scart 2 socket on the back of the television and into the IN/OUT Scart socket on the back of the VCR. See page 7 for Connections.

setting up to record digital broadcasts

If you do not have a **NEXTVIEW** compatible VCR you cannot use this feature and you must programme your VCR as usual.



Remember to press the **ATV/DTV** button to select between **DIGITAL** and **ANALOGUE** modes.

2 With the \checkmark button, highlight **AV connection**.

Feature menu

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

EXIT : To exit

3 Press the \rightarrow button and with the \checkmark button highlight **VCR sync Timer** and press the \rightarrow button to turn it **ON** and then press the **EXIT** button.

AV connection

Back	
Digital input-1	EXT 4
Digital input-2	EXT 3
EXT2 input	AV
EXT3 input	AV
EXT2 output	DTV
VCR sync Timer	ON

EXIT : To exit

This will allow a **NEXTVIEW** compatible VCR to respond to the television's Timer events. Now, set your **NEXTVIEW** compatible video...

on your NEXTVIEW compatible VCR...

You will not need to programme your video as this TV can control **NEXTVIEW** compatible VCRs when recording digital broadcasts.

First, on your TV remote control, press the \rightarrow button until **EXT2** shows on TV the screen, enabling the VCR menus to be seen.

Now, set your video to recognise that the signal is coming from the TV (nextViewLink setting).

See your VCR owner's handbook for details.

Now, set up your recordings... see the next page...

Many TOSHIBA video recorders are NEXTVIEW compatible... your dealer will be happy to advise you of the current models available.

...when recording widescreen broadcasts, your VCR should be set so that on playback it will automatically switch the TV to the 'wide' setting.

Some of the settings on this page are made on your **NEXTVIEW** compatible VCR. Please refer to the VCR Owner's Manual for details of how to do this on your model.

Timer sync

1 Press the **TV MENU** button on the TV remote control and the \rightarrow button to highlight **Feature menu**.

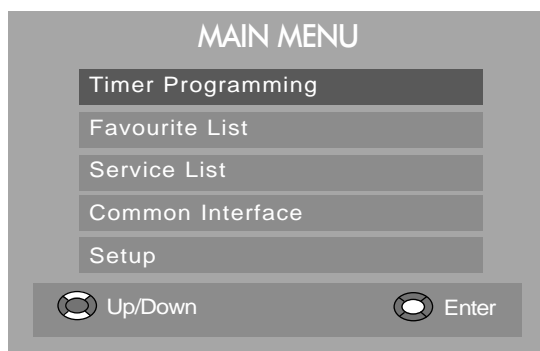
Recording continued

IF YOU HAVE A NEXTVIEW COMPATIBLE VCR, YOU DO NOT HAVE TO PROGRAMME YOUR VIDEO just set it to record from the TV as described on the previous page. Once you have turned **VCR sync Timer** to **ON** you can set the digital timer.

setting up a timed **digital** recording

Please note, if you are viewing a DIGITAL programme at the same time as recording it, you must NOT change to another DIGITAL programme or access any on-screen menus – the new programme will be recorded and so will the menus. You can, however, view an ANALOGUE programme whilst the digital recording is taking place but if you change from ANALOGUE to DIGITAL the digital programme display will be recorded.

- 1 Press the **DTV MENU** button on the TV remote control and highlight **Timer Programming**.



- 2 Press **SELECT** and the screen will show the available recording slots.
- 3 Use the **▼** button to highlight an available slot or one you want to change and press the **SELECT** button again.



- 4 The **ENTER DETAILS** screen will now come up. Use the **<**, **>**, **^**, **v** and number buttons on the remote control to enter your settings. The timer uses the 24 hour clock.

Use the **RED** button if you wish to cancel/remove any entries.
- 5 Once you are happy with your settings, you must press **SELECT** to **Store Entry**. This will take you back to choose another time slot.
- 6 Repeat for any more programmes you wish to record and then press the **EXIT** button.

You can enter up to ten timed recordings.



One minute before the **Start time** is reached, the orange indicator on the front of the TV will flash and you will be prompted on the TV screen. Press **SELECT** to go to that programme or **EXIT** to **cancel** the timer programming. The orange indicator stays on during recording.

If you are watching another digital programme and ignore the prompt, the television will automatically switch to the programme to be recorded. This may cause the programme display to be recorded.

You will not be able to watch another **digital** programme whilst recording is taking place. If you do select another **digital** programme, you will be warned on the TV screen. You can however, view an **analogue** programme. Press the **ATV/DTV** button then choose an **analogue** programme.


If your VCR is not NEXTVIEW compatible you must program your video. See your video manual.

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 see page 37.

Dolby Digital

Arrange the speakers around your normal viewing positions (as shown on page 6) and then make sure that the TV is set up as follows:

- 1** The DVD/Games console is connected to the TV using phono leads to the COMPONENT VIDEO INPUT or a Scart lead to Scart 3, **and** an optical or coaxial cable to the optical/coaxial sockets, DA-1 or DA-2.
- 2** The **Digital input-1** (optical)/ **Digital input-2** (coaxial) in the **AV connection** menu (see page 25) is set to **EXT 3** if Scart 3 is used or **EXT 4** if the equipment is connected to COMPONENT VIDEO INPUT.
- 3** If external front speakers are connected the external switch (found on the back of the TV) is set to **EXT**. You will not hear the centre channel without external front speakers connected. 
- 4** Rear speakers are connected and the **Rear speaker** option in the **Surround set up** menu is set to **YES**. (See next page.)

DELAY TIME...

If you sit a long way from the TV and close to the rear speakers the sound from the rear will reach you before the sound from the front. You can use a higher setting in the Delay time option to restore the correct balance.

- 1** Press the **TV MENU** button and from the **Feature** menu select **Surround set up**.
- 2** With **Delay time** highlighted, use the **<** or **>** button to change the setting to a value that suits you.
- 3** Press **EXIT** when you have finished.

! *If rear speakers are NOT selected in the Surround set up menu, you will not hear any sound from your rear speakers.*

Adjustments



- 1** Set the **volume** and **balance** of the front speakers to your preference. Play a Dolby Digital source and press the **TV MENU** button on the TV's remote control. Select the **Sound** menu.
- 2** Press the **∨** button to highlight **Surround** and press **>**. Highlight the title, e.g. **Dolby Digital 3/2**, which is an indication of the channels available from your current sound source, see the table below.
- 3** Then press the **>** button and adjust the levels using the **∧** or **∨** button to select the centre and two rear speakers in turn. Press either the **<** or **>** button to adjust. The number of adjustable speakers will depend upon the signal received from the DVD player. To cancel the test press the **EXIT** button.

! **Alternatively, use the Test mode in the Surround set up menu, see page 29.**

If the DVD playing is recorded in Dolby Pro Logic, i.e. 4 channel stereo (front left, front right, centre and rear) the TV will detect the 4 channels.

In this instance, when the **Surround test** is run the TV will cycle through the four channels in use.

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

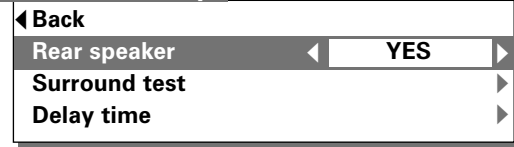
Dolby Digital

- 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

Dolby Pro Logic – available on many TV broadcasts in addition to video tapes. 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 you will not hear a centre channel.

Surround set up



EXIT : To exit

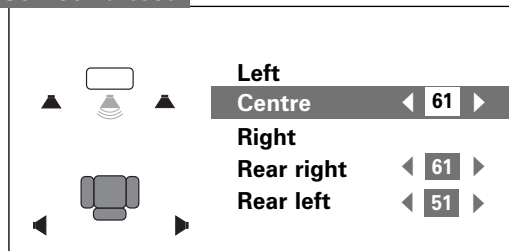
- 1 Press the **TV MENU** button and from the **Feature menu** select **Surround set up**.
- 2 Using the **<** or **>** buttons turn **Rear speaker** to **YES**.

! **YES** in the **Rear speaker** option must be chosen for the **Test Mode** below to function...

Surround Test Mode

- 1 Set the **volume** and **balance** of the front speakers to your preference.
- 2 Press the **TV MENU** button to bring up the **Sound** menu. With **Surround** highlighted, press **>**. With **Dolby Pro Logic** selected, press **EXIT** and go to the **Feature menu** to select the **Surround test** from the **Surround set up** menu.

Surround test



EXIT : To exit

- 3 Use the **<** and **>** buttons to adjust.

! **The test will play a 'white noise' through each speaker in turn. The display will show you which speaker is in play, adjustments may be made whilst it is highlighted. The Centre channel will only be adjustable once the external switch has been set to EXT.**

! If you cannot connect rear speakers try selecting **Dolby 3 Stereo** in Step 2, but you must have external front speakers connected and the external switch set to **EXT**.



! Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal. There are no Dolby Digital or Surround effects available when using headphones.

Digital Surround Processor

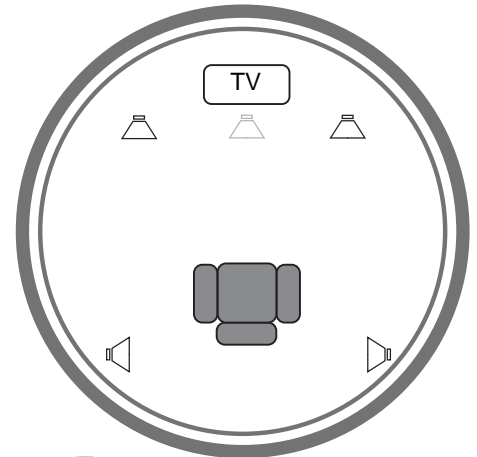
The effects described below are generated within the television and are not part of the signal from the digital broadcaster.

Please note: **Hall, Theatre, Disco, and Stadium** effects are only available on a stereo signal. **Pseudo surround** works on both mono and stereo signals. All of the Digital surround modes are adjustable, the method of adjustment being described below, is the same for all the Digital Surround effects.

- 1** Press the **TV MENU** and select the **Sound** menu.
- 2** Press the **▼** button to highlight **Surround** and the **▶** button.
- 3** Now highlight the digital mode which best suits the type of broadcast.
- 4** And with the **▶** button to access the adjustments screen and with the **▲, ▼, ◀** and **▶** buttons, adjust the levels as required.

SURROUND SOUND uses a combination of 4 speakers – front-left, front-right and two rear speakers.

...if you choose to adjust one Digital surround mode, you will not effect the others.



Surround Sound: Hall

To reproduce in the living room the surround effects similar to those experienced in a large concert hall. *Ideal for TV programmes or music video tapes.*



Surround Sound: Pseudo

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



Surround Sound: Theatre

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



Surround Sound: Stadium

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



Surround Sound: Disco

To create the atmosphere of a room so full of music that it seems to engulf the listener. *An ideal sound mode for listening to pop videos.*



Surround Sound: Off

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

Remember to press the the ATV/DTV button to select DIGITAL mode.

TELETEXT

digital text

The **digital text** service is a new way of viewing and using the new information services. It has a modern, computer-style format, incorporating pictures, photographs and interactive views.

digital text



Text is not available for all digital stations and is dependant on the broadcaster.

To make sure that all the text appears within the viewing area choose AUTO mode from the Teletext options on page 32.

Digital text is a huge leap forward in the world of text, offering high quality on-screen images with multi-colour, photographic still images. With its advanced text and graphics and user-friendly screen usage, this free, text service is available to anyone with a digital television.

Unlike analogue teletext, you don't have to remember page numbers. You can simply use the coloured buttons on the remote control and the **^**, **v**, **<** and **>** buttons and use the pull-down menus and move around – navigate – quickly and easily. And, because it's a digital service, as with the TV pictures, there will be no problems with 'ghosting', or interrupted reception that misses and cuts out words.

Digital text is fast, simple to use and full of information for you and help is always at hand at the touch of a button on the remote control.

There are even pop-up menus on the screen to help you find your way around!

At the touch of a button you can access **News, Sport, Weather, What's On, Entertainment, Travel, Finance...** and more, depending on which programme you are on.

...News, Sport, Weather, What's On, Entertainment, Travel, Finance...

...Digital text puts YOU in control...

no more waiting for pages to 'flip over', YOU can move through the key pages, backwards, forwards, at YOUR own speed. And, whichever page you choose to look at, you can access a helpful pop-up menu to take you to an index of all the sections, simply by pressing the **BLUE** button on the remote control. In addition to offering greater control over pages, digital text will be faster to use, with quicker page access and navigation.

If you press the DTV MENU button whilst watching text, you will cancel the text service.

moving around digital text

- 1** To access **digital text**, press the **TEXT** button. You may need to wait a few seconds while the text service loads. If you press the **TEXT** button whilst viewing digital text, you will cancel it.
- 2** Press the **BLUE** button to access the index.
- 3** With the **v** and **^** buttons, highlight your chosen subject and then press **SELECT**.
- 4** Use the coloured buttons as instructed.
- 5** Press either the **TEXT** or the **EXIT** button to return to normal TV.

analogue teletext – setting up




This TV has a multi-page teletext memory, which takes a few moments to load and it offers two ways of viewing text – **AUTO** and **LIST** which are explained on the next page.

Selecting the character set and viewing mode and general information



About teletext



The button:

Pressing the  button once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change programmes.

When you first press the  button to access the text service, the first page you see will be the *initial* page.




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


In **LIST** mode you will see whichever page number is currently stored on the **RED** button.

To access any teletext page, enter the 3 digit page number, using the numbered buttons on the remote control, e.g. 430, or to advance to the next page press the **P ▲** (or ) button, to go back to the previous page press the **P ▼** (or ) button.

Sub-pages

Once in this chosen page, if there are *sub-pages* they will automatically load into memory **without changing the one you are reading**. Arrows will appear along side the page number, indicating *sub-pages* which have loaded to the left or right of the one on the screen. If there are many *sub-pages* it will take a long time for them all to load and this will depend on the speed with which the broadcaster transmits them.

To access the sub-pages in memory press the  button, then use the  and  buttons to view them.





Whilst in *sub-pages* mode an indicator will show in the bottom left of the screen. After a short time of inactivity the indicator will disappear. To access the *sub-pages* again press the  button.

These *sub-pages* will remain available to view until you choose another page or, in normal TV mode, you change programme.

See page 34 for details on the remote control's teletext buttons...




Selecting characters and modes

Before using teletext you can choose the correct alphabet (**Character**) and whether to view in **LIST** or **AUTO** mode, (explained on the next page).

- 1 Press the **TV MENU** button and from the **Set up** menu, use the  or  button to highlight **Teletext** and then the  button to select.
- 2 With **Character** highlighted, use the  button to select **CHARACTER-1**.

Teletext

◀ Back	
Character	◀ CHARACTER-1 ▶
Mode	◀ AUTO ▶

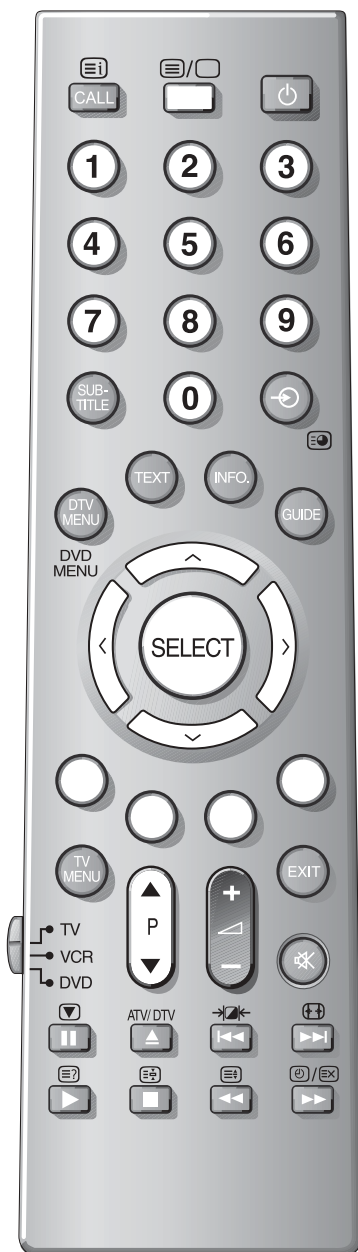
- 3 To select the **Mode**, with the  button highlight **Mode**.
- 4 With the  or  button choose **AUTO** or **LIST**.
- 5 Press **EXIT** to finish.

Teletext continued

– auto and list modes

Moving around the teletext pages in **AUTO** and **LIST** modes and selecting favourite pages.

Moving around



There are two **Modes**: **AUTO** will display **FASTTEXT**, if available. **LIST** will display your four favourite pages. In either mode, as an alternative to the coloured buttons you can access a page by entering a 3-digit number, using the buttons on the remote control, or to advance to the next page press the **P ▲** (or **▲**) button, to go back to the previous page press the **P ▼** (or **▼**) button.

Auto

Press the button to access teletext.

In **AUTO** mode, if **FASTTEXT**, is available, you will see four coloured titles at the base of the screen.

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

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

List

In **LIST** mode, the four choices at the bottom of the screen are now numbers – 100, 200, 300 and 400, which have been programmed into the TV's memory.

To view these pages use the coloured prompt buttons e.g. press the **GREEN** button to view page 200.

If you want to *change* these stored pages press the coloured button for the colour you want to change, e.g. **GREEN** and enter the 3 digit number.


This number will change in the top left of the screen and in the coloured highlight.

Now press **SELECT** to store your choice. The bars at the bottom of the screen will flash white. **Whenever you press SELECT all four page numbers showing along the bottom will be stored and the previous ones will be lost.**

If you do not press **SELECT** to confirm your change, you will not have stored your choice and it will be forgotten when you leave the teletext screen.

You may view other pages by simply entering the 3 digit page number – but **DO NOT** press **SELECT** or you will lose the favourite already stored.

Teletext continued over the page...


Remember to cancel text before changing programmes – press the  button twice.

analogue teletext – the controls


Now you have set up teletext, below is a guide to the remote control teletext buttons and their functions.

Using the buttons on the remote control





1  To display an index/initial page:

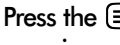
In **AUTO**-mode

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


In **LIST**-mode


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

2  To display a page of teletext:


Press the  button to display teletext. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You cannot change programmes until you return to normal TV.


3  To reveal concealed text:


Some pages cover topics such as quizzes and jokes. To discover the solutions press the  button.


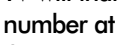
4  To hold a wanted page:

This feature is included as it is part of the broadcast teletext system but you will not need it as this TV allows you to control the display of sub-pages.

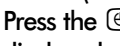

5  To enlarge the teletext display size:

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

6  To select a page whilst viewing a normal picture:

When in teletext mode, if a page selection is made and then the  button is pressed, 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 the  button to view the page.

To display news flashes:

To view news flashes as they are broadcast, select the news flash page for the particular teletext service (see the index page of teletext service). Press the  button. The news flashes will be displayed as and when they are broadcast. Press the  button to cancel the display.

You must cancel the news flash page before changing programmes.

The technical bits...

digital Manual Tuning, Downloads, Technical Information and Common Interface



You can watch an ANALOGUE programme whilst a download is taking place...

Manual Tune

This option gives details of channel numbers, frequencies and other technical information.

- 1** Press the **DTV MENU** button. With the ∇ or \wedge button highlight **Setup Menu** and press **SELECT**.
- 2** With the ∇ or \wedge button highlight **Manual Tune** and press **SELECT**.
- 3** If you know the channel numbers of the digital services in your area, you can select them in turn using the \langle and \rangle buttons and add services this way, as an alternative to **Add New Services** from the **digital AUTO TUNE** option.

Downloads

This option will cause the TV to search for a software update on the digital broadcast signals and keep up to date with any new functions and features that may be available to you. If, whilst you are watching DTV and a download is available, a screen prompt will appear. You can choose to download YES or NO.

If you choose NO you will be reminded of the outstanding download each time you switch on the TV. If you choose to download, and you are recording, all the subsequent screen displays will be recorded too.

- 1** If you want to check if a download is available, press the **DTV MENU** button.
- 2** Using the ∇ or \wedge button highlight **Setup** and press **SELECT**.

- 3** With **Check For Download** highlighted, press **SELECT** again. If a download is available you will be prompted **NOW** or **LATER**. If you choose **NOW**, a progress bar will show whilst downloading. If you choose **LATER**, set a time and leave the TV in Standby.

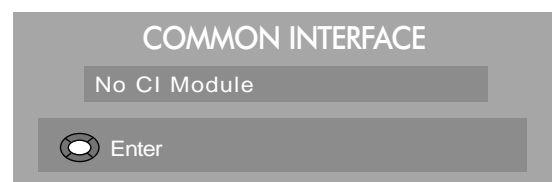
Technical Information

This function can be used to check the version of hardware and software currently installed.

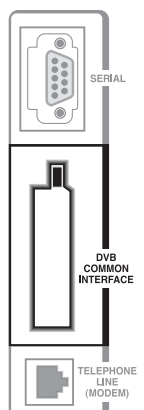
- 1** Press the **DTV MENU** button.
- 2** Using the ∇ or \wedge button highlight **Setup** and press **SELECT**.
- 3** With **Technical Information** highlighted, press **SELECT** again for **Hardware** and **Software Version** information.

Common Interface

The Common Interface slot enables the insertion of a CAM (Conditional Access Module) to allow you to view additional broadcasts.



- 1** Take off the cover of your DVB Common Interface Slot. This is on the back of your TV.
- 2** Insert your CAM with its card into this slot.
- 3** Then follow the on-screen displays.



Connections and controls

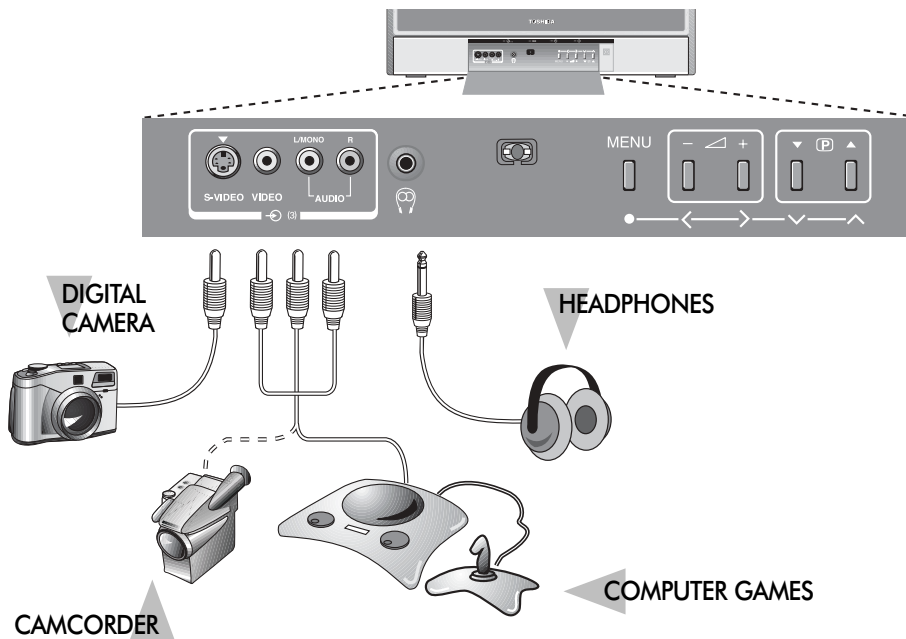
! When plugging accessories into ANY socket on the TV, it is imperative to turn the TV OFF.

! When connecting equipment always refer to the relevant owner's manual for full details.

You can connect a wide variety of external equipment via the sockets located behind the flap on the TV. Press the centre of the flap to open it.

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

28ZT29B – front connections and controls



To bring up the TV menu press the **MENU** button. Press the **MENU** button twice to **EXIT**.

To control the TV's volume and to move left and right through the menus press the + ▸ – buttons.

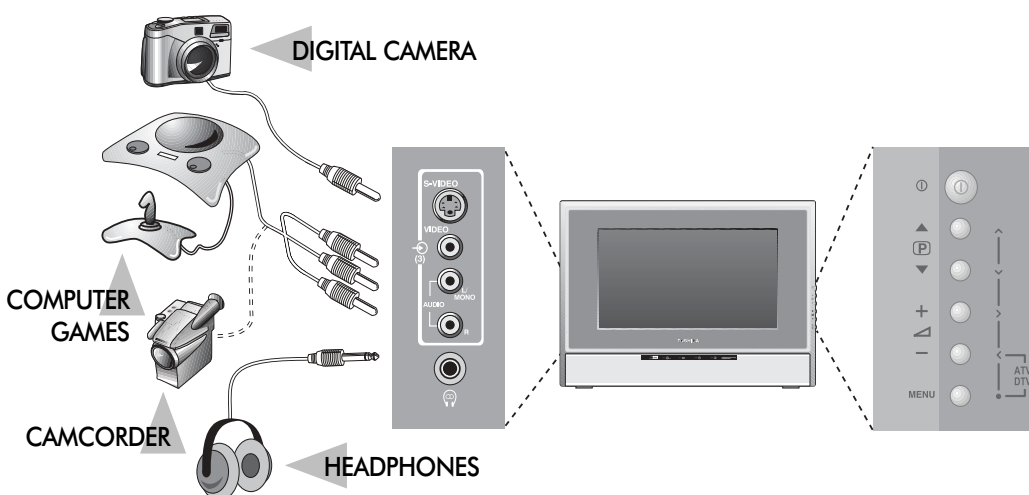
To change programmes and to move through the menu press the ▲ P ▼ buttons.

Press **MENU** and – together to swap to **ATV/DTV** mode.

! **DO NOT** connect equipment to both the front/side and rear 3 terminals at the same time.

! The panel lock function must be off.

32ZT29B and 36ZT29B – side connections and controls



To bring up the TV menu press the **MENU** button. Press the **MENU** button twice to **EXIT**.

To control the TV's volume and to move left and right through the menu press the + ▸ – buttons.

To change programmes and to move through the menu press the ▲ P ▼ buttons.

Press **MENU** and – together to swap to **ATV/DTV** mode.

If you connect mono sound equipment, connect the audio output of the equipment to the L/Mono socket on the TV.

To select the Inputs, press the button until the display shows **EXT3** or **EXT3S** as described on page 25.

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

Please note: Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal.

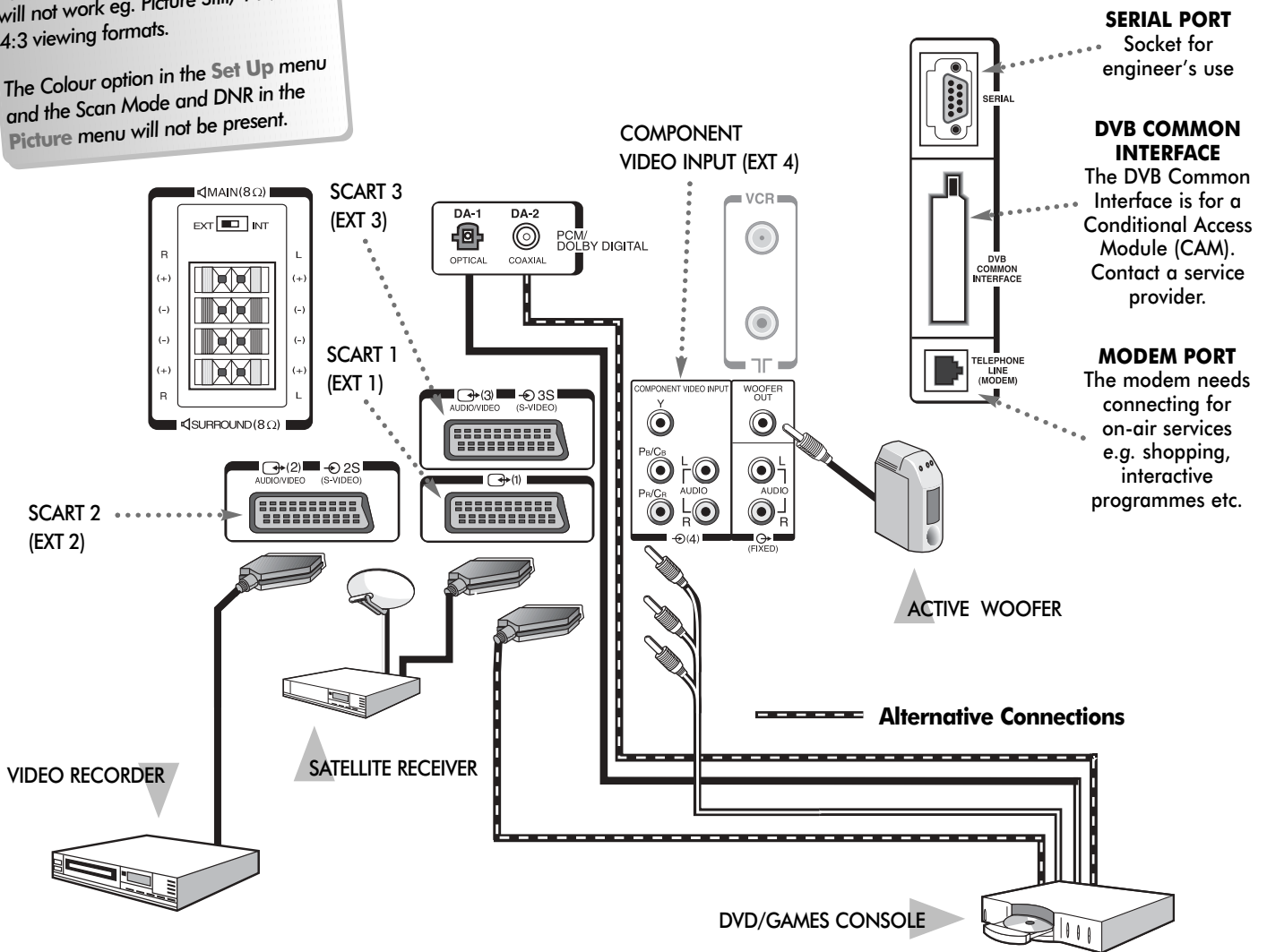
Back connections

We recommend, as illustrated here, Scart 1 for a Satellite Receiver and Scart 3 for additional equipment, such as a DVD. But you **MUST** connect your video recorder to Scart 2 to enable timer recording.

Note: If you are using component video and you have a 525P (Progressive) input (NTSC) on **EXT4**, certain functions will not work eg. Picture Still, 14:9 and 4:3 viewing formats.

The Colour option in the **Set Up** menu and the Scan Mode and DNR in the **Picture** menu will not be present.

...and back connections



SERIAL PORT
Socket for engineer's use

DVB COMMON INTERFACE
The DVB Common Interface is for a Conditional Access Module (CAM). Contact a service provider.

MODEM PORT
The modem needs connecting for on-air services e.g. shopping, interactive programmes etc.

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

On the back of the TV are 3 Scart sockets and a selection of other sockets, all of which will enable you to connect a variety of external equipment.

If connecting S-VIDEO equipment, set the **INPUT** for **EXT2** or **EXT3** accordingly. See page 25.

In addition there is a fixed external audio output which enables the connection to a suitable Hi-Fi unit and a phono socket to enable an active Woofer to be connected. **When you connect a Woofer, make sure you choose Woofer EXT. from the AV connection option in the Feature menu.**


If your TV automatically switches over to monitor the external equipment you can return to normal TV simply by pressing the desired programme position button. To recall the external equipment, press the **↺** button repeatedly to select between **EXT1**, **EXT2**, **EXT3** or **EXT4**.

Questions and Answers...





If you experience what seem like problems operating your TV, we recommend you read through the simple checks below and on pages 39 and 40 before calling the helpline.

Q Why is there no sound or picture?

A Check that the mains switch is on and check all the connections. Press the Standby button  on the remote control to make sure that the TV is not in Standby mode. Press a number button on the remote control to cancel any **Timer off** setting.

Q Why am I not receiving a clear digital picture?

A Check the signal level.
Press the **DTV MENU** button then with the  or  button highlight **Setup** and press **SELECT**. Then highlight **Manual Tune** and press **SELECT**.

As long as the signal level bar is green the signal is good. If the bar is yellow/red the signal is poor and you should contact your aerial technician.

Q Why does the picture and sound breakup 'mosaic' or the image freeze?

A Check the signal level in **Manual Tune**.
Check the aerial. You may have to contact your aerial technician to re-position the aerial.
Check the connections and cables. The cables may be defective and require replacement.

Q Why can't I see the DTV MAIN MENU

A You are in **analogue** mode. Press the **ATV/DTV** button.

Q Why can't the digital text service be seen?

A The **digital** programme you are on is not broadcasting digital text. Try another **digital** programme.

Q Why does the LOCKED CHANNEL display come up?

A You have chosen to **Lock** the programme. See the **Parental control** pages.

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

A Check the **Scart lead** connection.

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

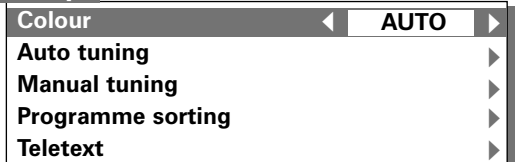
A When using an external source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The television is factory set to **AUTO** in the **Set up** menu to automatically display the best colour system.

To check that you have the best colour...

1 From the **Set up** menu select **Colour**.



Set up



EXIT : To exit

2 With the  or  button, choose between **AUTO**, **PAL**, **SECAM**, **NTSC 4. 43** or **3. 58**.

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.

Q Why is the video recorder/DVD picture in black and white?

A Check that the correct **input** has been chosen. See **AV connections**.

Q Why can't I see the video tape/DVD I am playing?

A Make sure you have connected the VCR/DVD player using a **Scart lead** and see page 37 for connections.

Q Can anything else cause a poor picture?

A Yes. You must ensure that the **aerial lead** is connected **directly to the TV** and not the VCR.

Questions and Answers... continued

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

Q *I have a picture, but why have I no sound?*

A Press the volume button + - or the sound mute button.

Check the **Languages** option in the **SET UP MENU**.
Choose **English Audio**.

Q *Why am I not receiving a clear analogue picture?*

A You may be experiencing interference or a weak signal. First, try a different station and check your aerial connections. Then you can fine tune, press the **TV MENU** button and select **Set up**. From the **Manual tuning** screen highlight the channel and press **SELECT**. Use the or buttons to select **Manual fine tuning** and adjust/optimize the picture with the and buttons.

Q *Why are the colours wrong when I play an NTSC source?*

A Connect the source via a **Scart lead** and play.

1 From the **Set up** menu select **Colour**. With the or button choose **AUTO** and then **EXIT**.

2 Now, go to the **Picture** menu and with the or button, adjust the **Tint**.

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

A Check that **Panel lock** is not **ON**: using the remote control select **Panel lock** from the **Feature menu**.

With the or buttons turn **Panel lock OFF**.

Q *Why don't the P buttons work?*

A You have no programmes chosen as **Favourites**. From the **digital MAIN MENU** select **Service List**. Highlight the programme(s) and with the and buttons turn **Favourite** to **Yes**.

You have **Programme skip : On** in the **Manual tuning TV MENU**.

Q *Why doesn't the remote control work?*

A Check that the switch on the side of the remote control is set to **TV** mode.

Check that the batteries aren't dead and that they are inserted correctly.

Q *Why is there no sound coming from the front speakers?*

A Change the setting of the speaker switch on the back of the TV.

Q *Why is there no Dolby Surround?*

A If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and that it is connected to the TV by means of one of the 21-pin **Scart** sockets.

Also check that **Rear speaker** option in the **Surround set up** menu is set to **YES** and check you have the correct Dolby mode.

Run the **Surround test** mode as described in the **Dolby Pro Logic** section of this manual.

Q *Why is the analogue teletext not very good?*

A Good text performance depends on a strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable, check your aerial. Also, go to the *main index* page of teletext and look for the *User Guide*. This will give you details of basic teletext operation. If you need further help, see the **analogue teletext** section in this manual.

Q *Why do I not have any analogue teletext sub-pages?*

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

Q *Why is there no digital teletext?*

A There is none broadcast at this time, try later or use **analogue** text in the meantime.

Questions and Answers... continued

Remember...

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



Q *I have forgotten my PIN.*

A Use **2846** and then change it to a PIN of your choice. **Make a note of your new number!**

To ensure that no one else can change the PIN block out this number using a black felt pen.

Q *Why is there a message permanently displayed on the screen?*

A Remove it by pressing the **CALL** button.

Q *Having selected digital subtitles ON, why can't I see them on the TV?*

A Subtitles are not currently being transmitted by the broadcaster.

Q *Why can't I see some of the digital stations?*

A You will need to upgrade your subscription. Contact your service provider for details.

Cleaning the screen and cabinet...

After turning 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.

digital screen menus



Press the **DTV MENU** button on the remote control to access the main menu. To access the options press the **▼** and **▲** button on the remote control to move you down through them.

The functions of each menu are described in detail throughout this Manual.

MAIN MENU

- Timer Programming
- Favourite List
- Service List
- Common Interface
- Setup

Up/Down Enter

MANUAL TUNE – DIGITAL TERRESTIAL

Channel	21
Frequency (kHz)	47400
Tx Mode	2K
Guard Interval	1/32

Network ID	3018	Services found	9
Transport ID	4000	Services added	0
Provider	Carlton Digital		

Level Bit Error 8

EXIT Exit Channel change

SETUP MENU

- Languages
- Modem
- Parental Control
- Auto Tune
- Manual Tune
- Check For Download
- Technical Information

Up/Down Enter

TIMER PROGRAMMING 12:24 21/03/2002

Programme	Date	Start	Stop	Repeat	Sub
-----	---/---/---	---:--	---:--	-----	---
-----	---/---/---	---:--	---:--	-----	---
-----	---/---/---	---:--	---:--	-----	---
-----	---/---/---	---:--	---:--	-----	---
-----	---/---/---	---:--	---:--	-----	---

Up/Down Edit entry Remove

SERVICE LIST

Programme	Service	Favourite
001 BBC ONE	TV	Yes
002 BBC TWO	TV	Yes
003 ITV 1	TV	Yes
004 Channel 4	TV	Yes
005 Channel 5	TV	Yes
006 ITV 2	TV	Yes
007 BBC CHOICE	TV	Yes
009 Teletext	Data	Yes
010 BBC FOUR	TV	Yes
011 BBC NEWS 24	TV	Yes

Up/Down Remove Favourite Go To

LANGUAGES

- Subtitles English
- Data Services English
- Audio English

Up/Down Change

MODEM

- Dial Mode Tone
- Dial Prefix Enable
- Prefix Number 9

Up/Down Change

AUTO TUNE

- Add New Services
- Replace Existing Services

Up/Down Start

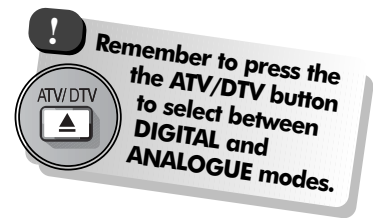
PARENTAL CONTROL

Please enter PIN

— — — —

Use 0 – 9

Screen menus



Press the **TV MENU** button on the remote control to see your top menu bar. This white menu bar will show five different topics in symbols. As you select each symbol by pressing the **<** or **>** button, its respective options will appear below. To access the options press the **✓** button on the remote control to move you down through them.

The functions of each menu are described in detail throughout this Manual.

Note: The options marked with † can **only** be used when in **ATV** mode. * 36ZT29B only.

The PICTURE Menu



Picture

Contrast	50	◀	◉	▶
Brightness	50	◀	◉	▶
Colour	50	◀	◉	▶
Tint	0	◀	◉	▶
Sharpness	0	◀	◉	▶
Scan mode		◀	NATURAL	▶
DNR		◀	AUTO	▶

EXIT : To exit

Press the **✓** button to access the second part of the Picture menu.

Picture

Black Stretch	◀	ON	▶
---------------	---	----	---

EXIT : To exit

The SOUND Menu



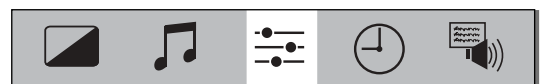
Sound

Surround		◀		▶
Bass	0	◀	◉	▶
Treble	0	◀	◉	▶
Balance	0	◀	◉	▶
Bass boost		◀	ON	▶
† Stereo/Mono	25	◀	◉	▶
		◀	STEREO	▶

EXIT : To exit

! The options available to you when in the Picture size/position screen will vary depending upon the widescreen format you have chosen, as detailed on page 20, and when viewing connected equipment.

The analogue SET UP Menu



Set up

Colour	◀	AUTO	▶
† Auto tuning			▶
† Manual tuning			▶
† Programme sorting			▶
Teletext			▶

EXIT : To exit

The TIMER Menu



Timer

Off timer	00:00
On timer	00:00

0-9 : To set

EXIT : To exit

The FEATURE Menu



Feature menu

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

EXIT : To exit

Notes...

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Subject	Page	Subject	Page
Adding digital services	10	Menus – general	42
Audio output	37	Modem – digital	21
Auto tune – digital	8	On-screen TV guide – digital	15
Auto tune – analogue	11	Panel Lock	24
Automatic Format (Widescreen)	19	Parental Control – digital	22
AV connections	25	PIN – digital	22
Balance	16	Picture Preferences	17
Bass	16	Picture size/position	18
Bass Boost	16	Programme Skip – analogue	13
Bilingual Broadcast	16	Programme Sorting – analogue	14
Black Stretch	18	Questions and Answers	38
Blue Screen	19	Recording digital broadcasts	26
Brightness	17	Remote control	4
Conditional Access Module (CAM)	35	Re-ordering digital programmes	9
Censorship – digital	23	Scart	37
Changing Programmes	15	Scan mode	17
Colour	17	Sharpness	17
Colour system	39	Controls	36
Common Interface – digital	35	Sound mute	16
Connections – back	37	Standby	7
Connections – initial	6	Stereo/mono	16
Connections – front/side	36	Still Picture	19
Connections – speakers	5	Subtitles – digital	21
Contrast	17	Surround set up – Digital Surround Processor	30
digital re-tuning	10	Surround set up – Dolby Digital	28
DNR – Digital Noise reduction	17	Surround set up – Dolby Pro Logic	29
Downloads – digital	35	System – analogue	12
Favourite digital programmes	9	Technical information – digital	35
Geomagnetic adjustment (36ZT29B only)	19	Teletext – digital	31
Headphone socket	36	Teletext – analogue	32
Indicator lights	7	Time Display	24
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Languages – digital	21	Tint	17
Locked services – digital	23	Treble	16
Manual fine tuning – analogue	14	Volume	16
Manual tune – analogue	11	Widescreen viewing	20
Manual tune – digital	35	Woofers	16
Menus – digital	41		

Specifications and accessories of your integrated digital TV...

Broadcast systems/channels

DIGITAL	UHF UK21-UK69
ANALOGUE 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, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin Scart	RGB, A/V
EXT2	Input/Output	21-pin Scart	A/V, S-video, Selectable output
EXT3	Input (back) Input (front/side)	21-pin Scart 4-pin Phono jack Phono jacks	A/V, S-video S-video Video Audio L + R
EXT4	Input	Phono jacks Phono jacks	Y, P _B /C _B , P _R /C _R Audio L + R
Digital Audio Input		Optical or Coaxial	
Fixed Output		Phono jacks	Audio L + R
Output to Active Woofer		Phono socket	
Telephone Modem		RJ11 jack	
Common Interface		Modules	

Modem Type V22bis DTMF
REN (ringer equivalent number) 1

Programme Positions 100

Visible Screen Size

28ZT29B	66cm
32ZT29B	76cm
36ZT29B	86cm

Display 16:9 aspect ratio

Sound output (at 10% distortion)

Main	10W + 10W rms
Centre	10W
Surround	10W + 10W

Power consumption (approx.)

28ZT29B	180W
32ZT29B	155W
36ZT29B	165W

Dimensions (approx.)

28ZT29B	110cm (W)	120cm (H)	42cm (D)
32ZT29B	118cm (W)	130cm (H)	56cm (D)
36ZT29B	135cm (W)	140cm (H)	60cm (D)

Weight (approx.) 28ZT29B 42kg 32ZT29B 53kg 36ZT29B 74kg

Headphone Socket 3.5mm stereo

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

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