

# TX-W32D2 Operating Instruction

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English

←  
BACK

EXIT

# Panasonic



## TX-W32D2

Colour Television

(U.K. Standard)

***100Hz***

**Quintrix**  
*WIDE*

**WIDE**  
**DIGITAL**  
P-L-U-S

King of Pictures

**GAOO**

Operating  
Instructions

Dear Panasonic Customer,  
Welcome to the Panasonic family of customers. We hope that you have many years of enjoyment from your new colour television. This is a very advanced television; however, the Quick Start Guide will allow you to use the TV as quickly as possible. You can then read the instructions completely and retain them for future reference.

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# WARNINGS and PRECAUTIONS

- This TV is designed to operate on A.C. 220 – 240V, 50Hz.
- This TV is capable of receiving the following transmission standard, PAL I.
- To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture.
- **WARNING : HIGH VOLTAGE !!!**  
Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
- Avoid exposing the TV set to direct sunlight and other sources of heat.
- Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time.



- **CABINET AND PICTURE TUBE CARE**

Remove the mains plug from the wall socket. The cabinet and picture tube can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum. TV sets can produce static electricity, care must be taken whenever touching the TV screen.

- Adequate ventilation is essential to prevent failure of electrical components. We recommend that a gap of at least 5cm is left all around this TV even when it is placed inside a cabinet or between shelves.

## FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a fitted three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. If the fuse is replaced then the replacement fuse must be 5 amp rated and should be approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the fitted plug has a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. Replacement fuse covers can be purchased through your local Panasonic dealer.

**The plug fitted to this appliance incorporates a mains filter circuit. If this is removed or replaced with a non-filtered plug this television will no longer meet the European standards for Electromagnetic Compatibility (EMC). If the fitted plug is unsuitable for the socket outlet in your home an appropriate adapter should be used.**

**Nonetheless, if the fitted plug is replaced, the fuse should be taken out and the cut-off plug disposed of safely. There is danger of severe electrical shock if the cut off plug is inserted into any 13 amp. socket.**

If a new plug is to be fitted please observe the wiring code as shown below.  
If in any doubt please consult a qualified electrician.

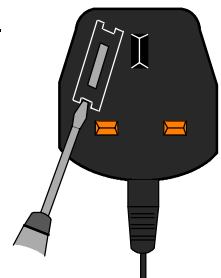
### How to replace the fuse (for plug type shown in example 1) :

Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug (See example 1).

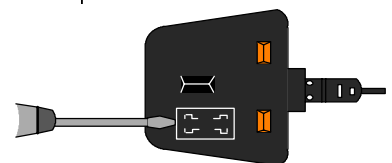
### How to replace the fuse (for plug type shown in example 2) :

Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse, then press the fuse cover down securely. (See example 2).

Example 1.



Example 2.




**IMPORTANT :-** The wires in the mains lead of this appliance are coloured in accordance with the following code :-

BLUE : NEUTRAL

BROWN : LIVE

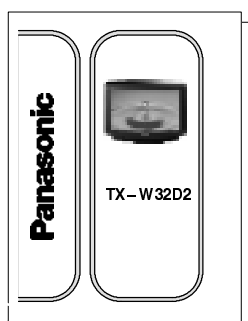
As the colours of the wires in the mains lead of this appliance may not correspond to the markings identifying the terminals in your plug, proceed as follows :-

1. The **BLUE** wire must be connected to the terminal marked 'N' or coloured black.
2. The **BROWN** wire must be connected to the terminal marked 'L' or coloured red.

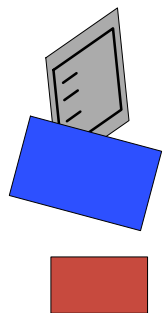
**IMPORTANT NOTE :** Under no circumstances should either of these wires be connected to the Earth terminal of the three pin plug, marked with the letter 'E' or the earth symbol. 

## ACCESSORIES

### Check that you have the accessories and items shown



Operating Instruction book  
TQB8E2688

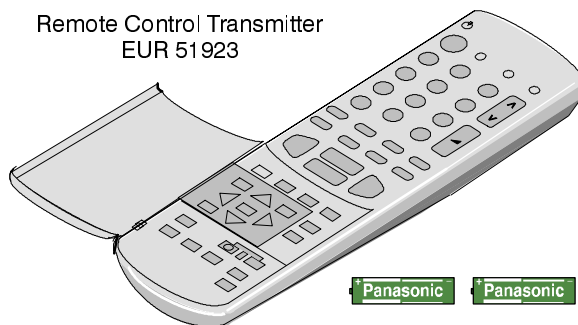


TV Guarantee

CRT Guarantee

Questionnaire

Remote Control Transmitter  
EUR 51923

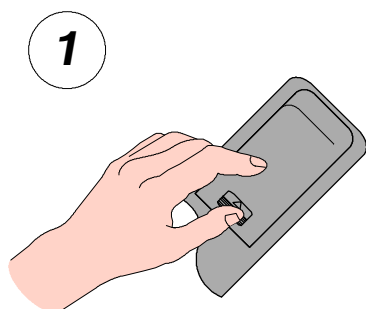


Batteries for the  
Remote Control Transmitter.  
(2 x R6 (UM3) size)

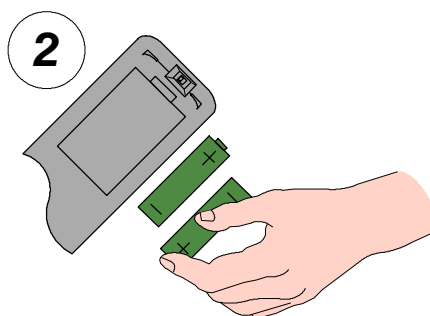


Video cabinet  
VS-WR4

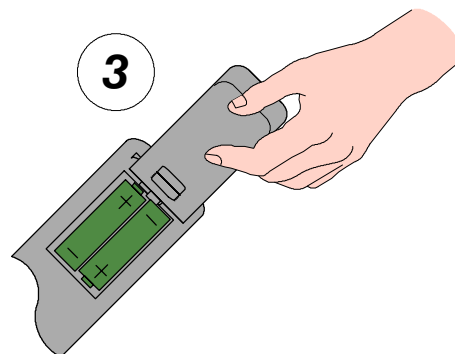
## INSERTING THE REMOTE CONTROL BATTERIES



Slide off the battery cover



Insert batteries – note correct polarity

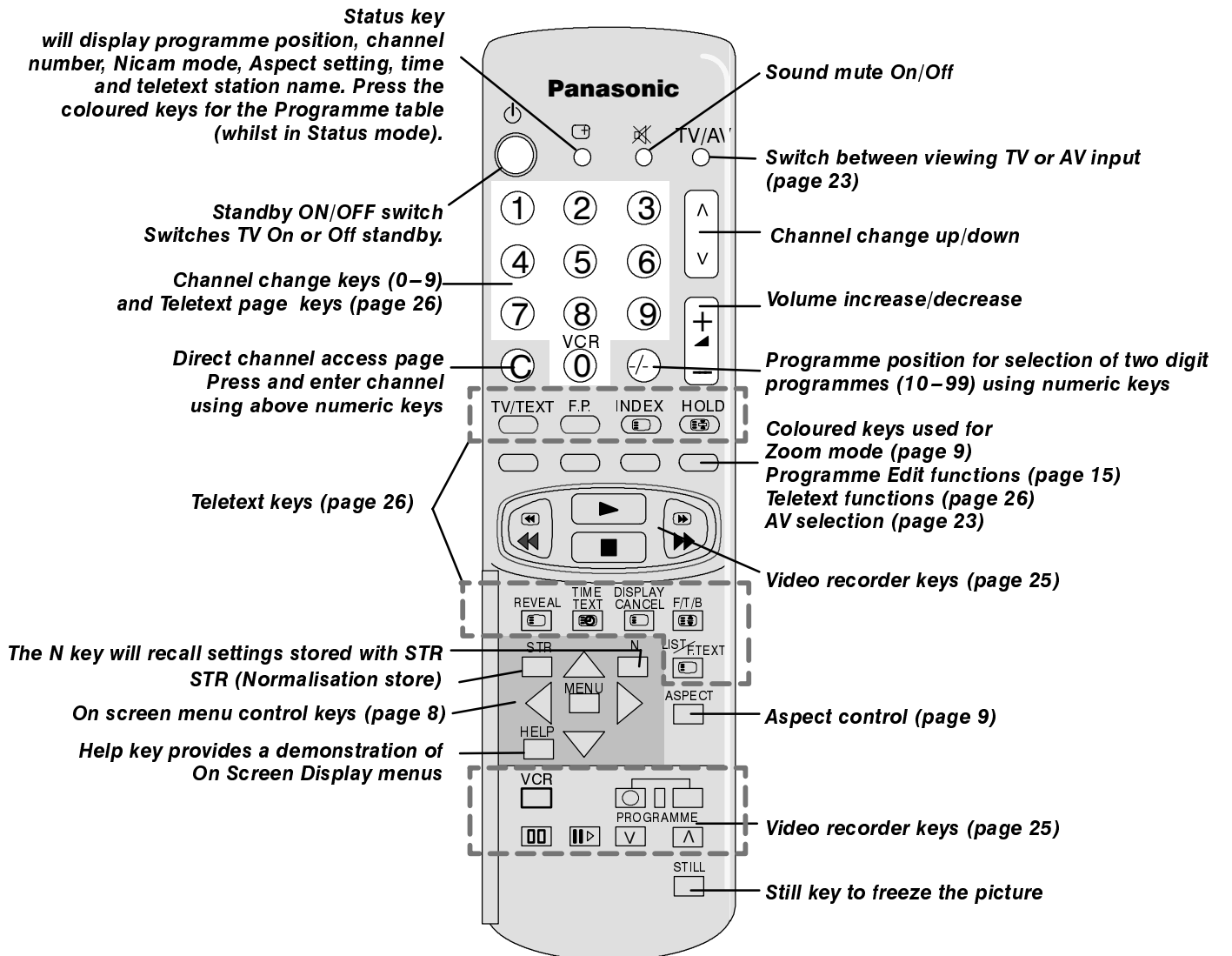
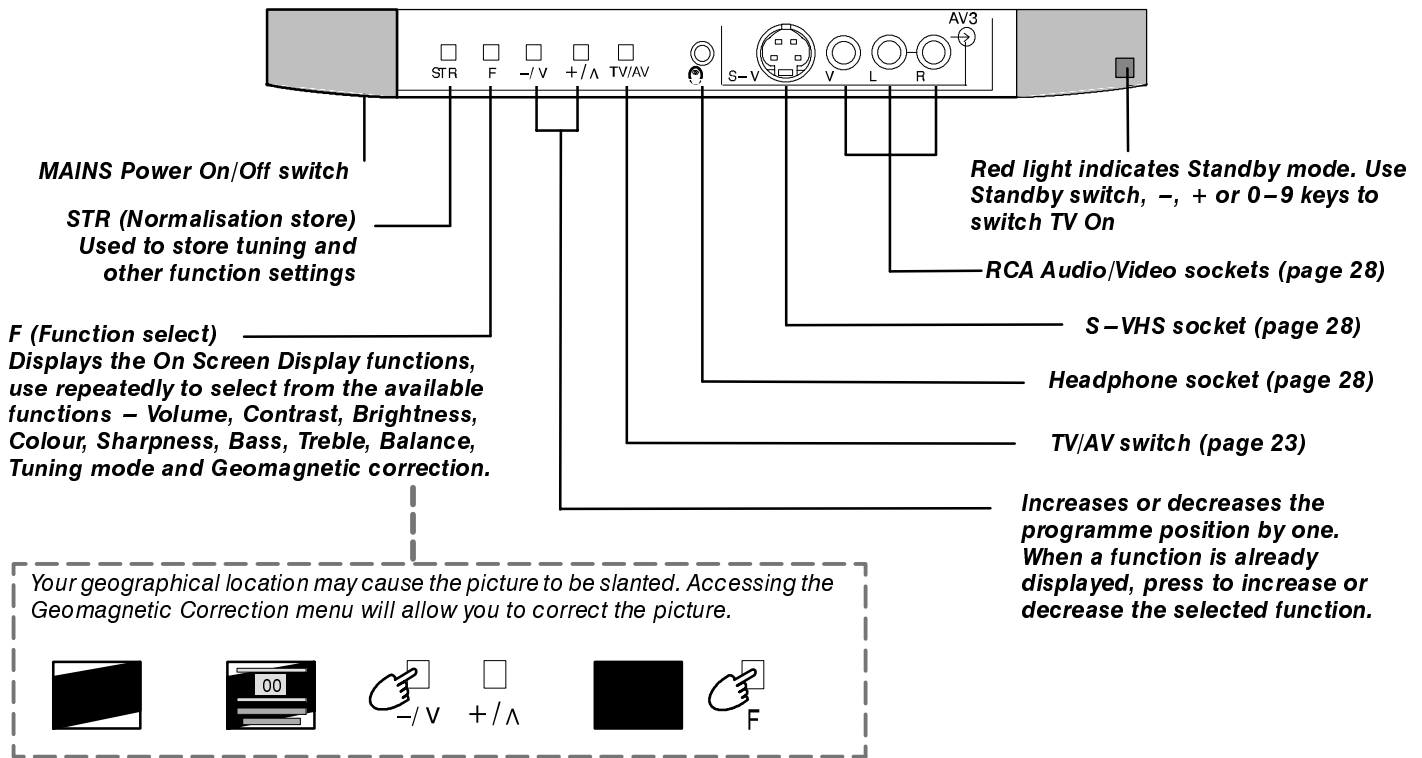


Replace the cover

### Notes:

- Make sure that the batteries are fitted the correct way round.
- Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.
- Do not mix different battery types, i.e. Alkaline and Manganese. Do not use rechargeable (Ni-Cad) batteries.

# BASIC CONTROLS – FRONT PANEL AND REMOTE CONTROL



# QUICK START GUIDE

## Connection of TV using an RF cable only

Connect the RF cable into the TV Aerial socket ( ㄗ ).



## Connection of TV and VCR using Scart and RF cables

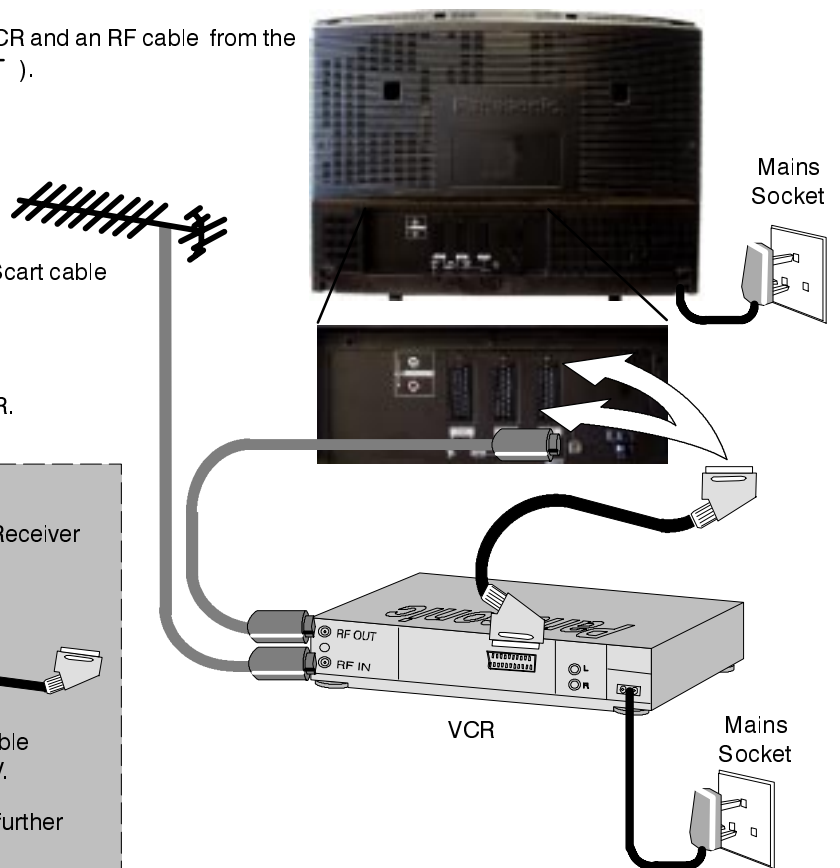
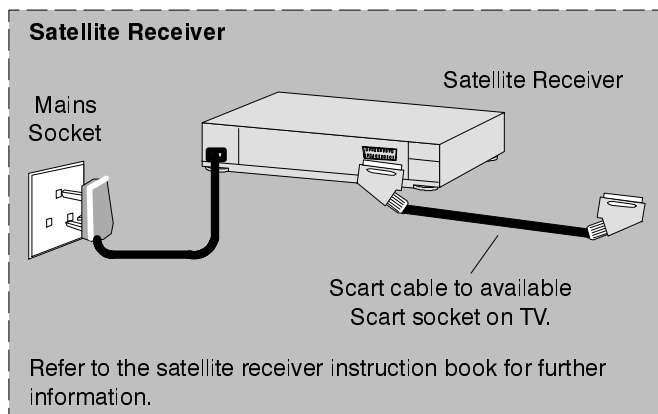
Connect the RF cable to the Aerial In socket of the VCR and an RF cable from the VCR Aerial Out socket to the TV Aerial socket ( ㄗ ).

### Scart Connections

The VCR can also be connected to the TV using a Scart cable if you are using a Scart equipped VCR.

Use the TV's AV1 Scart socket for a VCR.

Use the TV's AV2S Scart socket for an S-Video VCR.



### Notes :

Additional equipment and cables are not supplied.

Further details of Audio/ Video connections can be found on pages 28 and 29.

Further information for VCR and Satellite Receiver installation with this TV can be found on page 24.

# QUICK START GUIDE

1

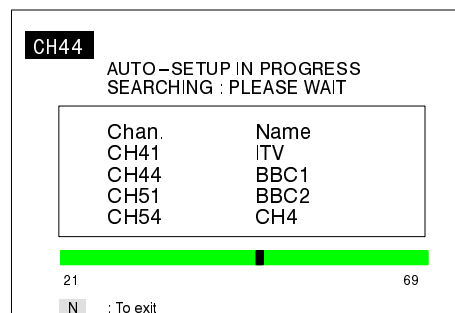
Switch ON your VCR \*1.  
Switch ON your Satellite Receiver\*2.  
Plug the TV into mains socket and switch on.  
Programmes will appear immediately if your dealer has programmed the TV for you.



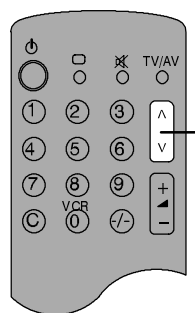
2

If the TV has not been programmed for you then **Auto setup** will begin. TV stations will be located, sorted into order and stored ready for use\*3.

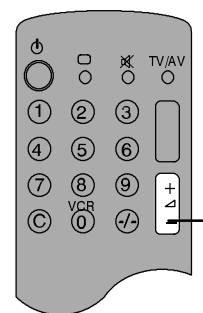
Switch the VCR Test Signal 'off'\*4.



## ... READY TO GO!



Change Channel



Adjust Volume

\*1. We recommend that you have the VCR's test signal 'on' – refer to your VCR instruction book to locate the VCR Test Signal switch (usually on the rear of the VCR).

\*2. The Satellite Receiver must be tuned to either SKY ONE or SKY NEWS before starting Auto Setup. When Auto Setup has finished, the satellite position that has been stored will be listed as 'SAT'.

\*3. The sorting order depends upon the TV signal, the broadcasting system, and reception conditions. If the order is not to your preference it can be rearranged. Refer to the Programme Edit menu – see page 15 for details.

Programme Position	All stations available	No CH5	No CH5 / S4C	No CH4 / CH5	No S4C	No CH4 / S4C	No CH4 / S4C / CH5
1	BBC1	BBC1	BBC1	BBC1	BBC1	BBC1	BBC1
2	BBC2	BBC2	BBC2	BBC2	BBC2	BBC2	BBC2
3	ITV	ITV	ITV	ITV	ITV	ITV	ITV
4	CH4	CH4	CH4	S4C	CH4	●	●
5	S4C	S4C	SAT	SAT	CH5	CH5	SAT
6	CH5	SAT	●	●	SAT	SAT	●
7	SAT	●	●	●	●	●	●

Note :

● The next available channel will appear, if no other stations are available then the Programme position will remain unused.

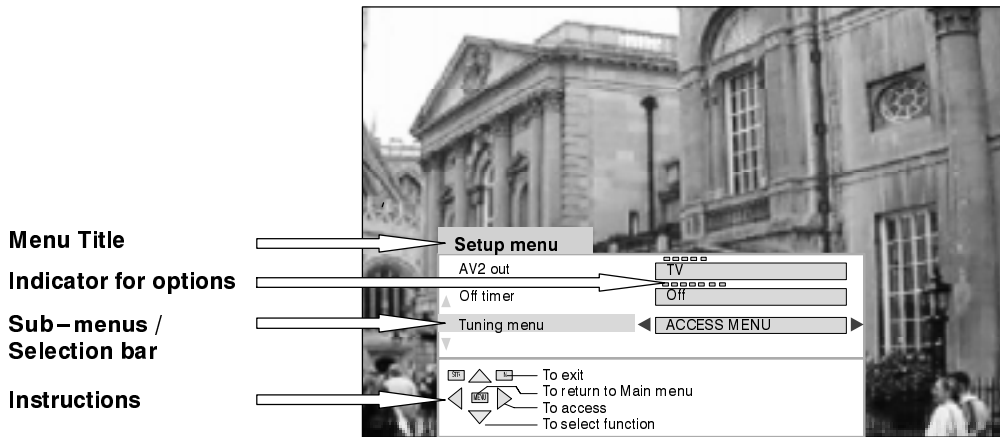
\*4. If your VCR Test Signal appears as a programme position it can be deleted using the Programme Edit menu.

**IT IS IMPORTANT THAT** you use only programme position '0' for your VCR. If your VCR does not appear to operate on programme position '0' (the VCR position), refer to page 24 for guidance.



# USING THE ON SCREEN MENUS

This TV has a comprehensive system of On Screen Display menus to access adjustments and options.



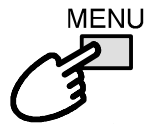
The following remote control keys are used to access and adjust settings for the On Screen Display menus.

Some selections, for example, **Contrast, Brightness, Colour** and **Sharpness** will allow you to increase or decrease their level.

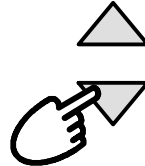
Some selections, for example, **Off timer**, allow a change of setting to be made.

Some selections, for example **Tuning menu**, will lead to a further menu.

The **'MENU'** key is used to open the Main menu and also to return to either the Main menu or a previous menu.



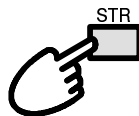
The **▲▼** keys are used to move the selector up or down the menus.



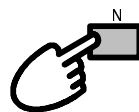
The **◀▶** keys are used to access menus, adjust levels or to select from a range of options.



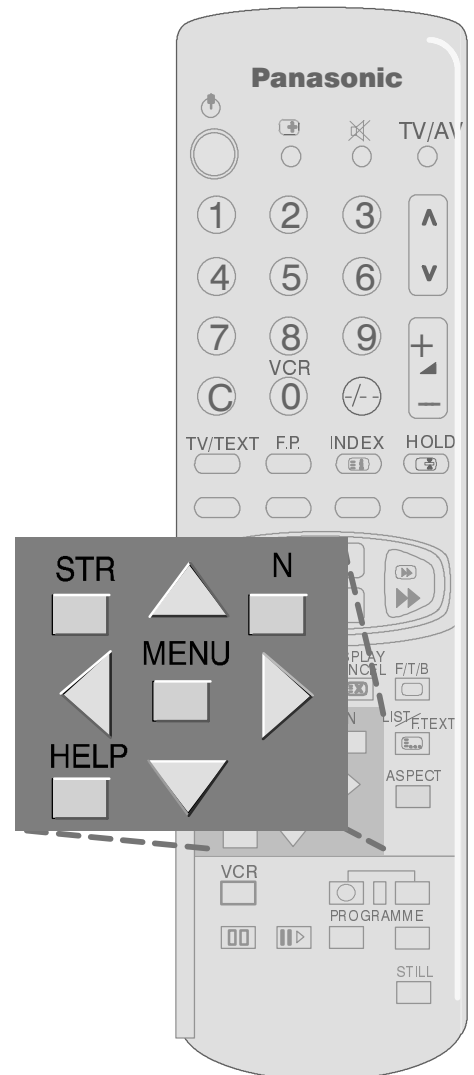
The **'STR'** key is used to store settings after your adjustment or choice has been made.



The **'N'** key is used to leave the menu system and return to the normal viewing screen.



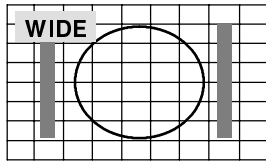
The **'HELP'** key will run a demonstration of the menus available.



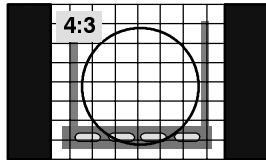
# ASPECT CONTROLS

The widescreen TV will allow you to enjoy viewing the picture at its maximum size, including widescreen 'cinema format' pictures.

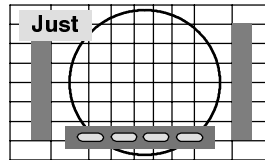
ASPECT  
WIDE /  
PANASONIC  
AUTO



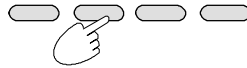
Some broadcasts are transmitted together with a wide screen identification signal (WSS). If the TV receives this signal then it will automatically switch to wide screen 16:9 mode, maximum display. The automatic widescreen switching depends upon reception conditions and the strength of the signal. If the signal is poor and therefore the WSS is weak then it is possible that the picture may not expand to full size and that the TV will display black areas around the edges.



A 4:3 picture set to 4:3

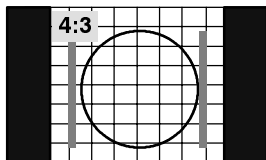


A 4:3 picture switched to Just mode



If the original source signal was a standard 4:3 aspect ratio then you might prefer to view in its original size; the red and green keys, that appear, will allow you to choose between viewing at standard 4:3 size or expanded in **Just** mode.

4:3

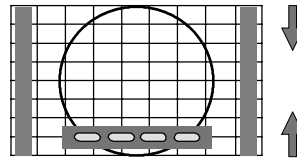
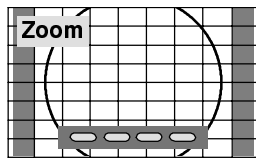


A 4:3 picture switched to its normal 4:3 viewing mode

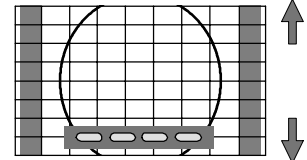
**4:3** will display a 4:3 picture at its standard 4:3 size and can be selected if you wish to view in this format.

# ASPECT CONTROLS

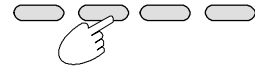
## Zoom



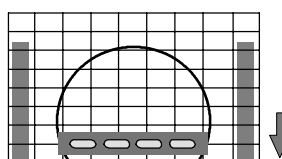
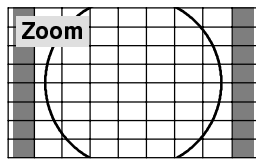
The red key will reduce the picture size vertically



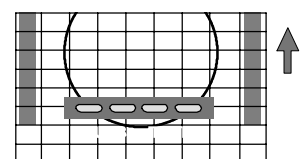
The green key will enlarge the picture vertically



In **Zoom** mode the size of the visible picture may vary according to the aspect ratio of the original picture. The red and green keys allow you to adjust the size.



The yellow key will move the picture vertically downwards

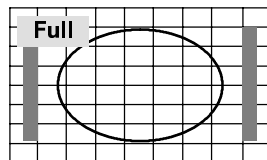


The blue key will move the picture vertically upwards



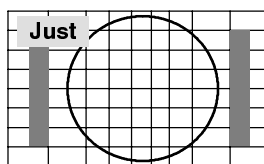
The picture can be moved vertically using the blue and yellow keys.

## Full



**Full** will display the picture at its maximum size but with slight elongation.

## Just



**Just** mode will display a 4:3 picture at maximum size but with aspect correction applied to the centre of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend upon the original signal.

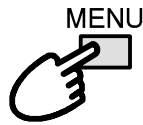
### NOTES:

- The on screen selector keys that appear for some aspect functions will clear after a few seconds. If you subsequently wish to select an operation then press the Aspect key once more for the keys to reappear.
- The widescreen aspect ratios of different films and programmes can vary. If these are wider than a standard 16:9 aspect picture then a black band may be visible at the top and bottom of the screen.
- If, in WIDE mode, you experience problems with the screen display size when playing back widescreen format recordings from your VCR then it is possible that the tracking control of your VCR requires adjustment (your VCR instruction book will contain adjustment details).

# MAIN MENU

All menus start from the Main menu (except AV select and Tuning procedure (Front panel)).  
You will also find the basic picture quality adjustments within this menu.

Open the Main menu



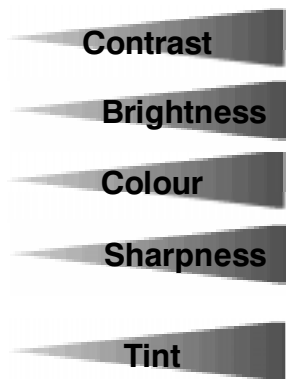
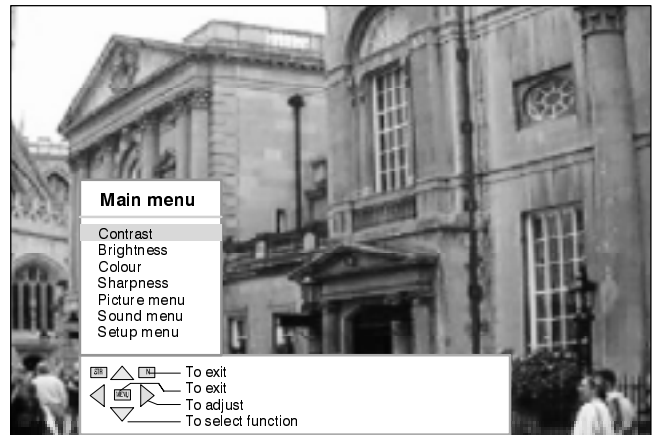
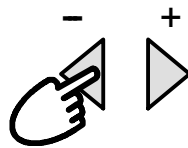
Move to your choice



Access your choice

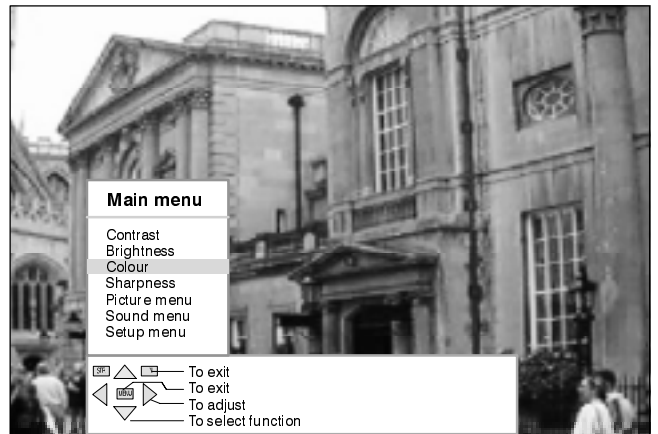


Increase or decrease levels or move to the Picture, Sound or Setup menus.



The Contrast, Brightness, Colour and Sharpness levels can be adjusted to suit your own preferences.

The Tint adjustment will only appear as a menu item if you have an NTSC signal connected to the TV and will allow adjustment of the hue.



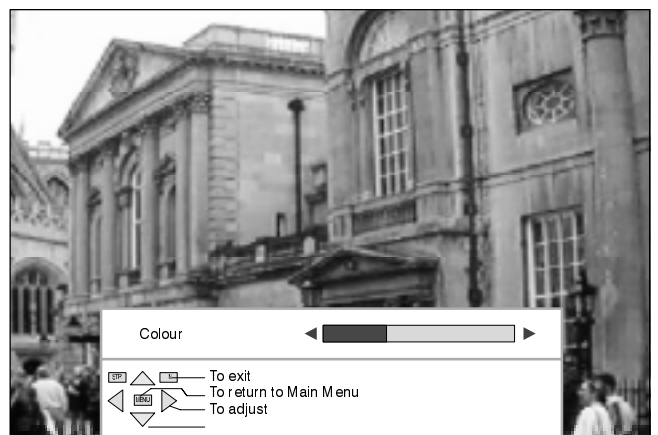
## Picture Menu

Choosing the Picture menu will take you to that menu and allow adjustments of the following three picture features :

A.I. automatically analyses the incoming picture and processes it to give improved contrast and optimum depth of field.

P-NR automatically reduces unwanted picture noise.

Flicker reduces picture flicker in the ON position. (Normally set to ON).

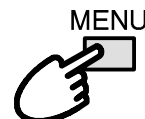


## Sound Menu

Choosing the Sound menu will take you to that menu and allow adjustments to the sound quality.

## Setup Menu

Choosing the Setup menu will lead to the Setup menu for various feature adjustments.



To close Main menu

# SOUND MENU

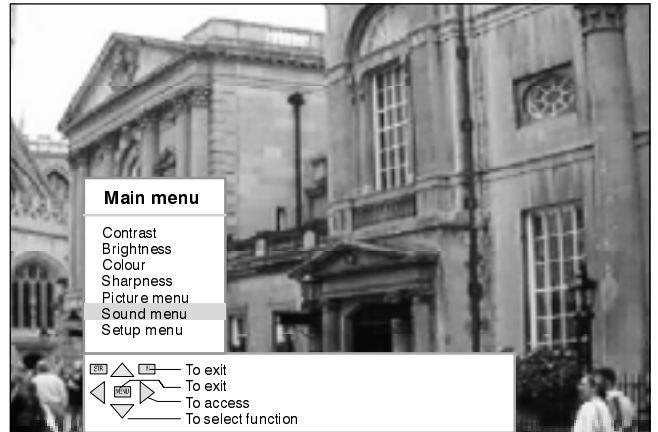
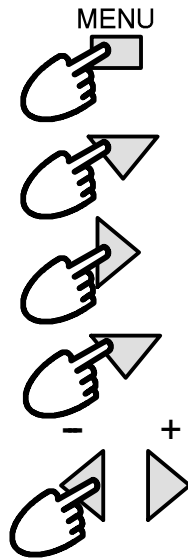
Open the Main menu

Move to Sound menu

Access Sound menu

Move to your choice

Increase or decrease levels or choose from options of Nicam, Mode or ambience.



Bass adjustment will emphasise the lower, deeper frequencies and can be increased or decreased.



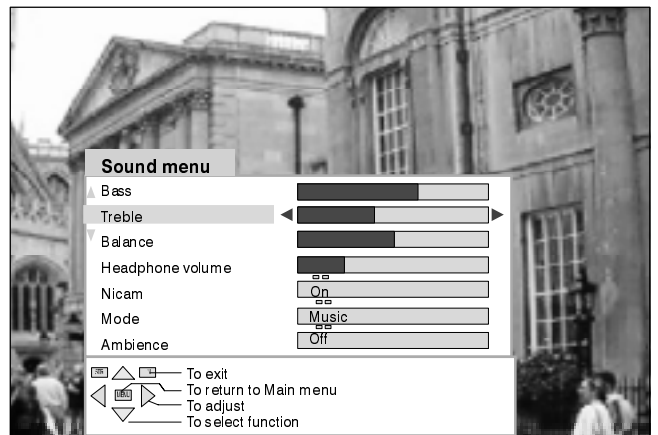
Treble adjustment will emphasise the sharper, higher frequencies and can be increased or decreased.



Balance affects the levels of sound between the left and right speakers. Adjustment can be made so that the level from the speakers will suit your listening position.



The headphone volume can be adjusted independently of the TV speakers so that everyone can enjoy listening at their own comfort level.



**Nicam**

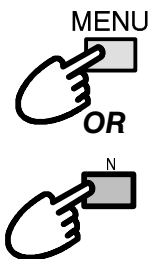
Select On to provide stereo sound reproduction. Select Off for FM Mono sound output. If Nicam Mono is being transmitted select either FM Mono (Off), Nicam Mono I (M1) or Nicam Mono II (M2). The options depend upon the signal being transmitted. If reception deteriorates it is advisable to switch to FM Mono (Off). When Nicam transmissions are not being received the sound will be FM Mono (Off) only.

**Mode**

The sound can be improved during Music or Speech mode by selecting the appropriate function.

**Ambience**

Ambience provides a dynamic enhancer to simulate improved spatial effects.



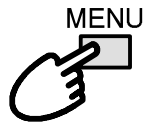
**Return to Main menu**

**To exit menu system**

# SETUP MENU

The Setup menu provides access to various advanced features and also to the Tuning menu

Open the Main menu



Move to Setup menu



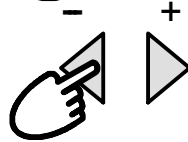
Access Setup menu



Move to your choice



Choose from options or access the Tuning menu.



□□□□□□  
**AV2 out**

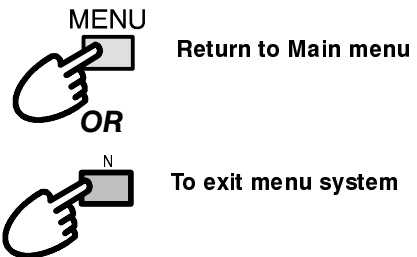
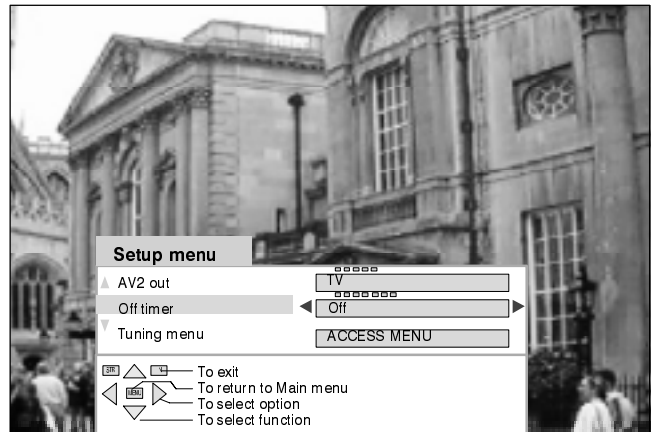
AV2 offers you a choice of signals to send to the AV2 SCART socket. You can choose from the current TV programme position, the signal entering AV1/AV3/AV4 or **Monitor** – the picture displayed on screen.

□□□□□□□□  
**Off timer**

Off timer will switch the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

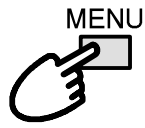
**Tuning menu**

The Tuning menu provides an entry to many other features including Programme edit and Auto setup. See pages 14 to 22.



# TUNING MENU

Open the Main menu



Move to Setup menu



Access Setup menu



Move to Tuning menu



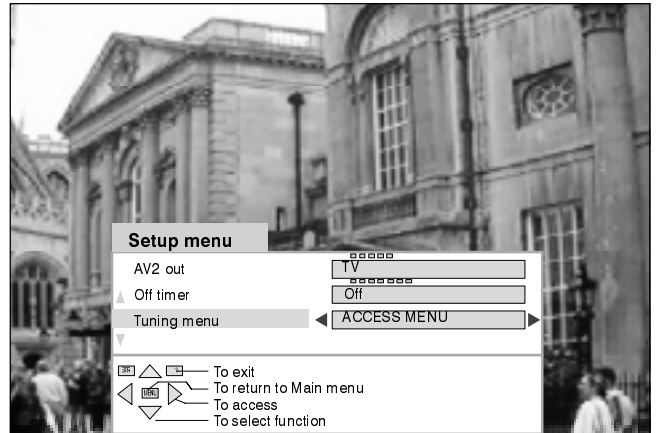
Access Tuning menu



Move to your choice



Access required menu



## Programme Edit

Accessing the Programme edit menu will allow stations to be moved, added, deleted, named or locked. See page 15.

## Auto setup

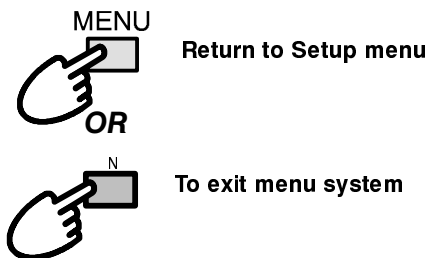
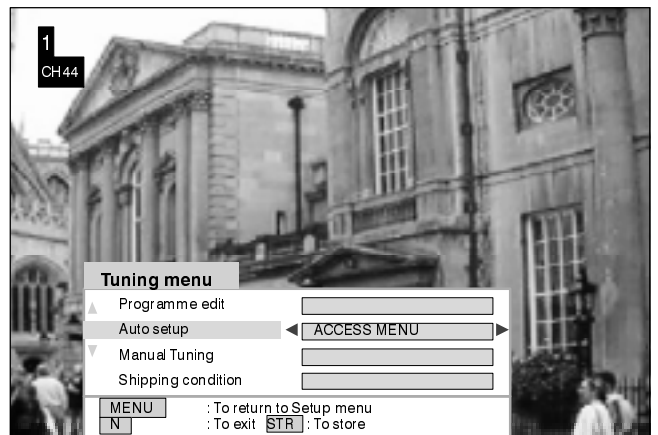
The Auto setup menu allows you to automatically retune the TV. See page 20.

## Manual Tuning

The Manual tuning menu allows individual programme positions to be tuned manually. See page 21.

## Shipping condition

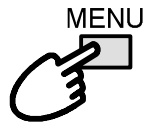
Allows you to clear all tuning information and reset all control levels back to factory settings. See page 22.



# TUNING MENU – Programme edit

The Programme edit menu allows you to delete, add, move, retune, name and lock channels.

Open the Main menu



Move to Setup menu



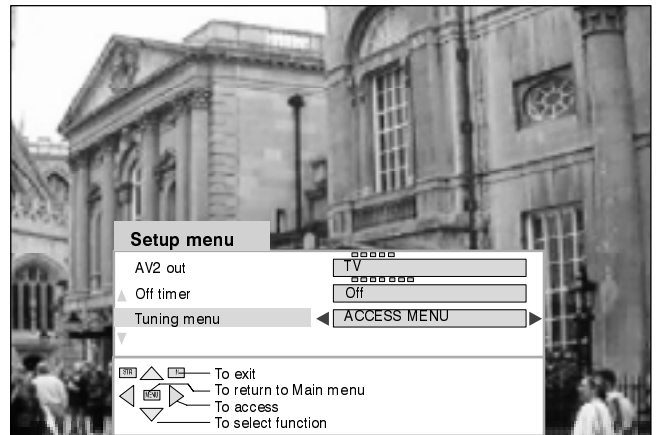
Access Setup menu



Move to Tuning menu



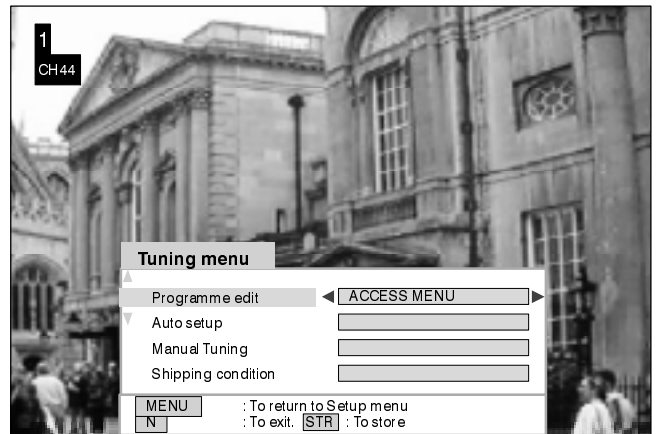
Access Tuning menu



Move to Programme edit



Access Programme edit



## To delete an unwanted programme position

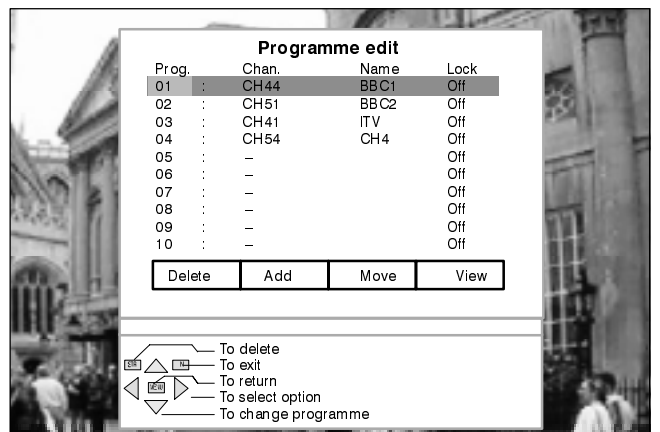
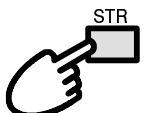
Choose the programme position



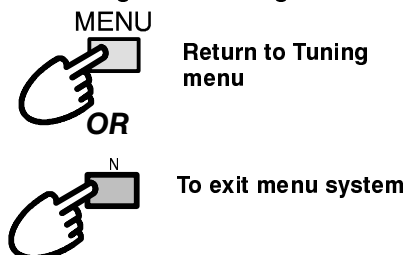
Press the red key on remote control



Press STR to delete



If you have completed changes to the Programme edit menu then





# TUNING MENU – Programme edit

## To add a programme position

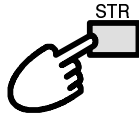
Choose the programme position



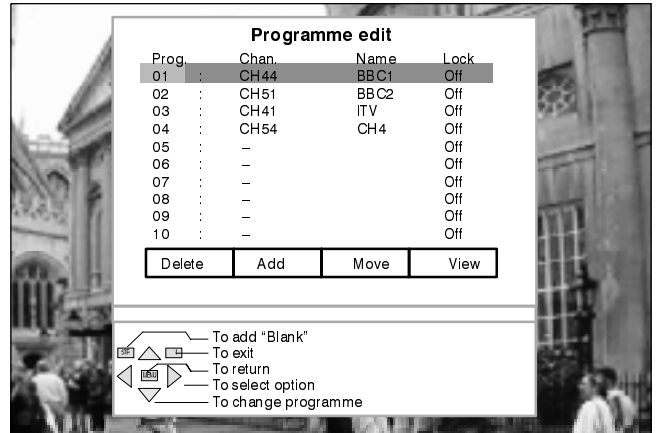
Press the green key



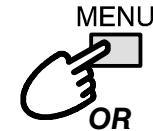
Press STR to add



This blank programme can then be tuned, named, locked, moved or viewed.

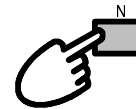


If you have completed changes to the Programme edit menu then



Return to Tuning menu

OR



To exit menu system

## To move a programme to another position

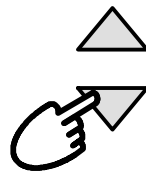
Choose the programme position



Press the yellow key on remote control



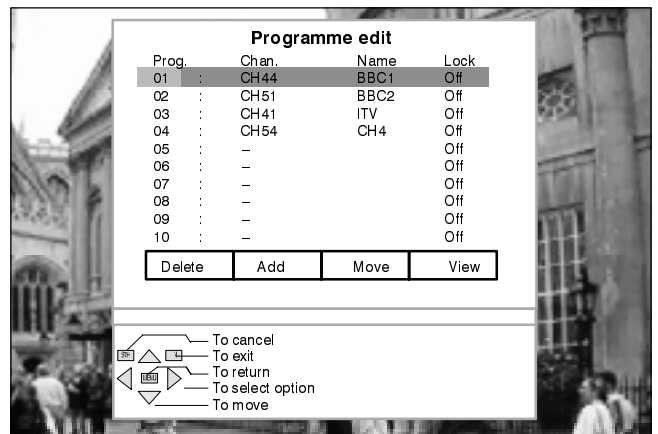
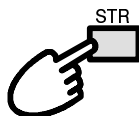
Choose new position



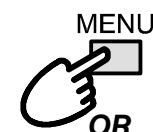
To action new position



Press STR to store



If you have completed changes to the Programme edit menu then



Return to Tuning menu

OR



To exit menu system

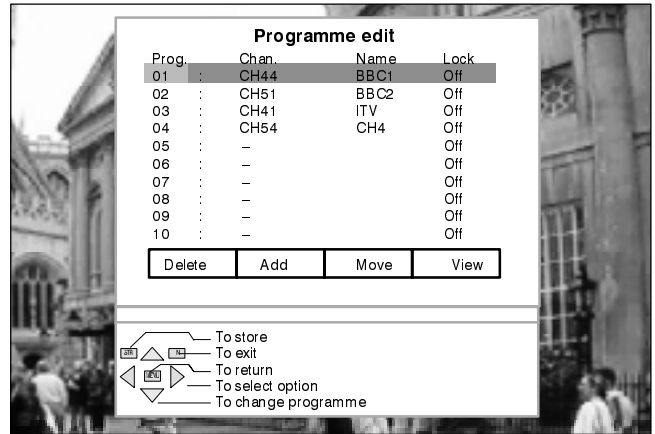
# TUNING MENU – Programme edit

To view a programme position

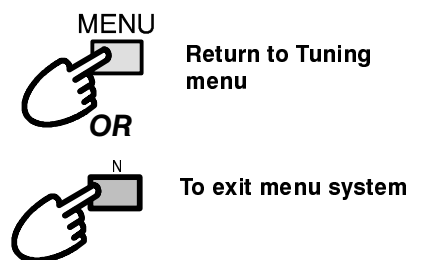
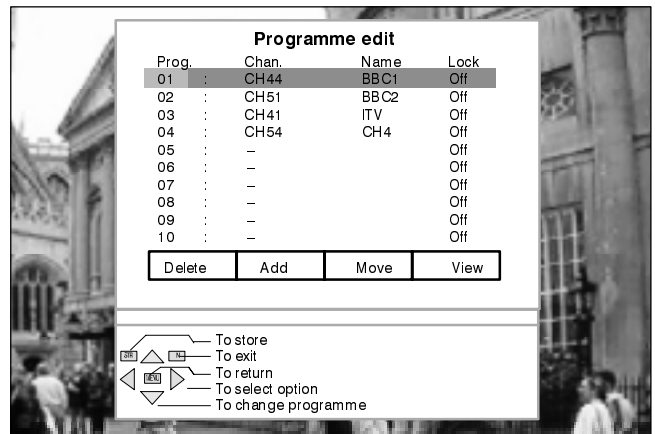
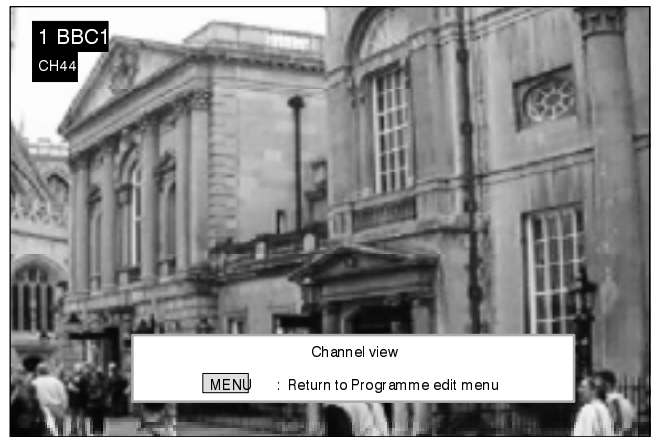
Choose the programme position



Press the blue key on remote control



The screen will return to Programme edit after a few seconds



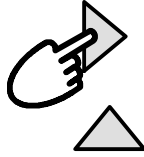
# TUNING MENU – Programme edit

## To tune a programme position

Choose the programme position



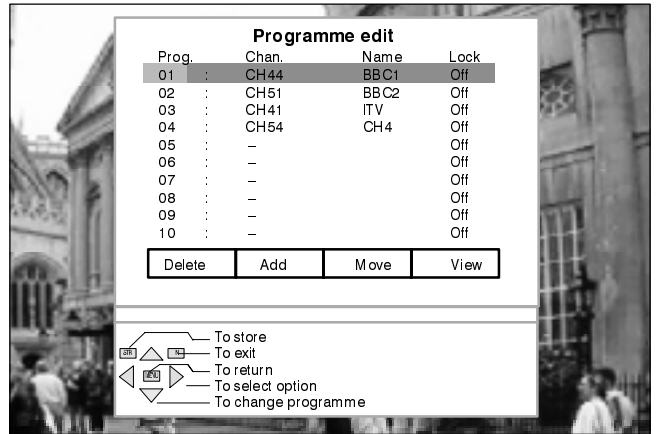
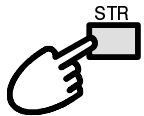
Move to the channel setting



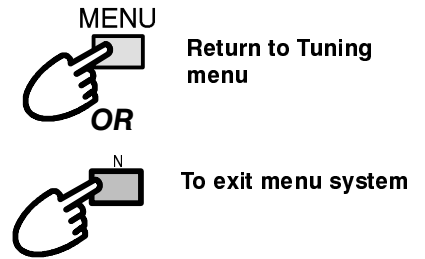
Increase or decrease channel number



Press STR to store



If you have completed changes to the Programme edit menu then



## To rename a programme position

Choose the programme position



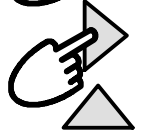
Move to the Name position



Choose the new character



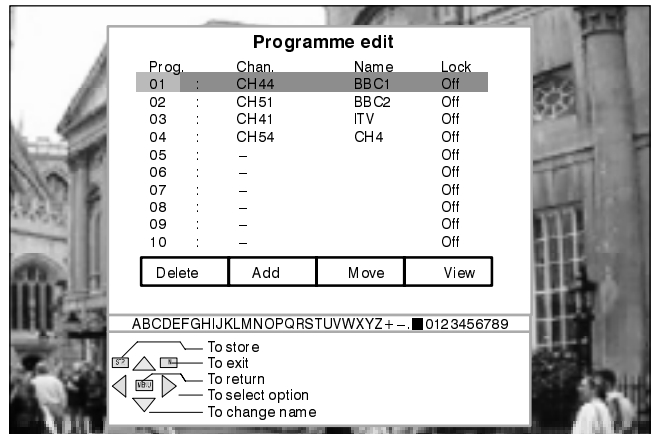
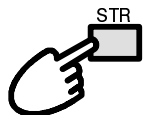
Move to the next character position



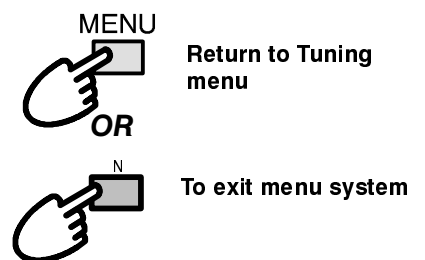
Continue until renaming is completed



Press STR to store



If you have completed changes to the Programme edit menu then



# TUNING MENU – Programme edit

## To lock a programme position to prevent access

Choose the programme position



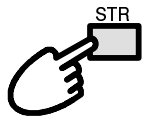
Move to the lock position



Choose between lock on or lock off

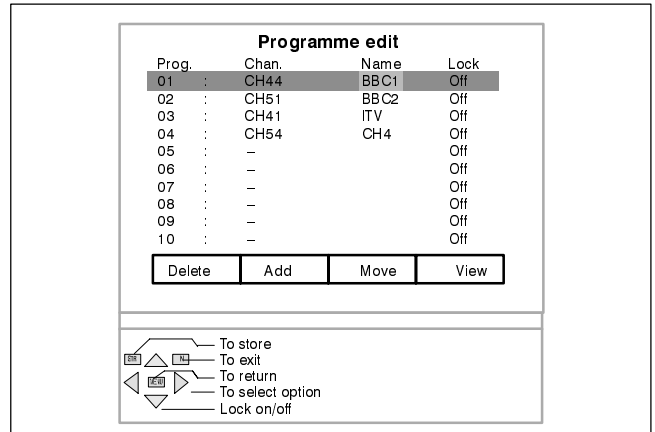


Press STR to store

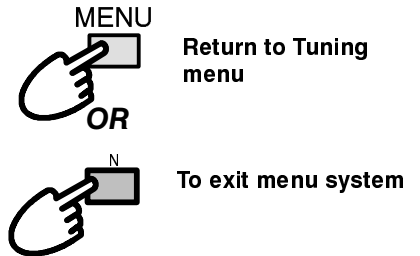


Access to the locked programme position is prevented.

When a programme position is locked, Direct Channel Access using the 'C' and numeric keys on the remote control is not available.



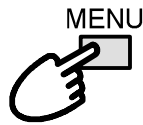
If you have completed changes to the Programme edit menu then



# TUNING MENU – Auto setup

The Auto setup menu will allow you to automatically retune the TV to your local stations. It is useful if you move to a different region.

Open the Main menu



Move to Setup menu



Access Setup menu



Move to Tuning menu



Access Tuning menu



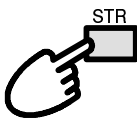
Move to Auto setup



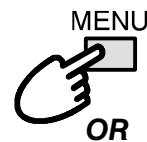
Access Auto setup menu



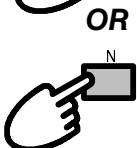
Press to start Auto setup



The TV will search for, locate and order your local stations.

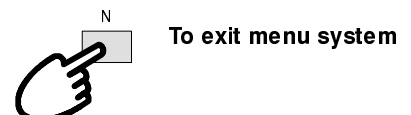
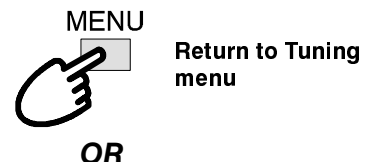
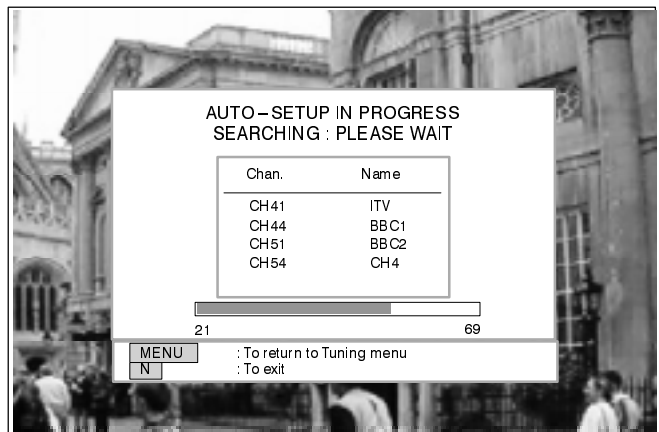
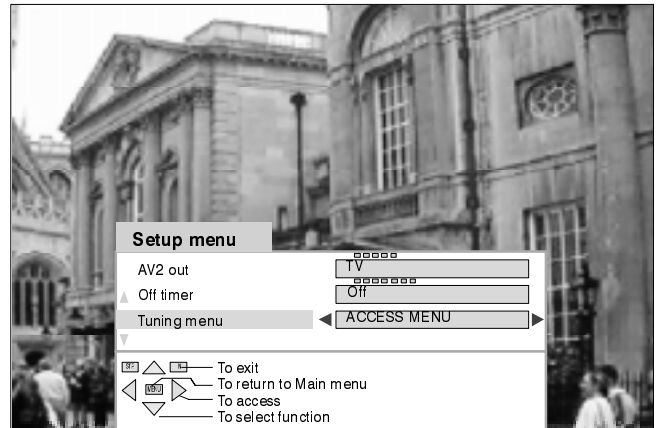


Once this operation is completed the TV will display programme position 1.



Note :

The sorting order depends upon the TV signal, the broadcasting system, and reception conditions. If the order is not to your preference it can be rearranged. Refer to the Programme Edit menu – see page 15 for details.



# TUNING MENU – Manual tuning

Manual tuning of the Programme positions is available either from the on screen display menu or from the front panel controls

## Manual tuning menu

Open the Main menu

Move to Setup menu

Access Setup menu

Move to Tuning menu

Access Tuning menu

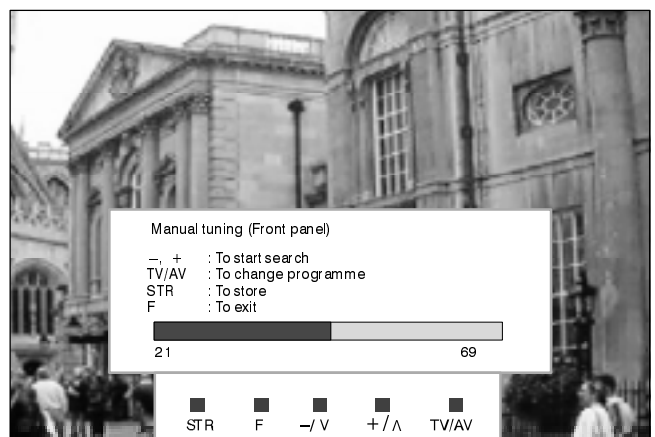
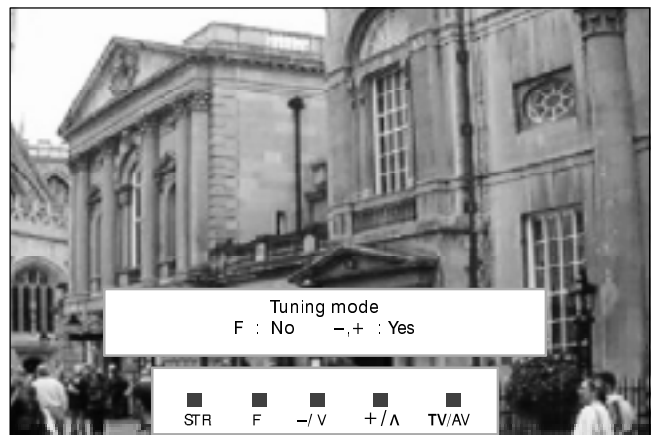
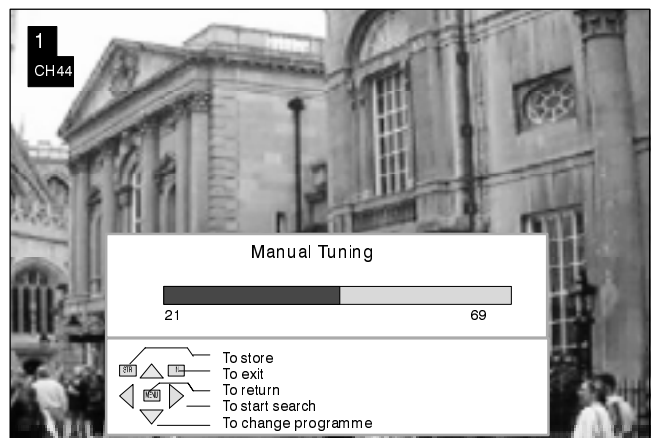
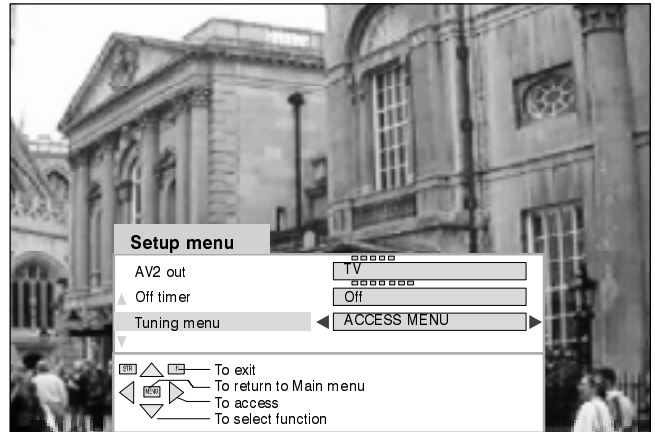
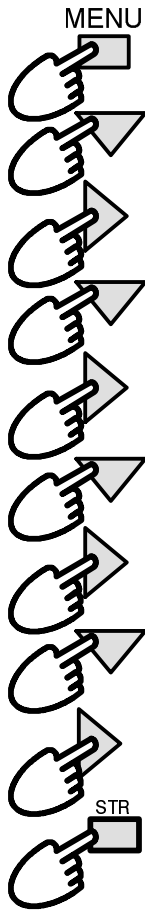
Move to Manual tuning

Access Manual tuning

Select the programme position

Start tuning

Press STR to store



## Manual tuning (Front panel)

Press the F button (Front panel) until the 'Tuning mode' is reached

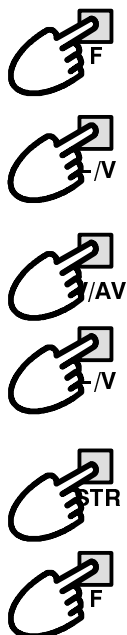
Press the - or + button to access 'Tuning mode'.

Press the TV/AV button to change to the required programme position

Press the - or + button to start the tuning search

Press STR to store changes

Press the F button to exit



# TUNING MENU – Shipping condition

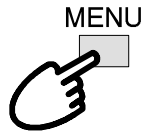
**Shipping condition allows you to reset the TV to its original condition, i.e. no channels tuned in.**

This is useful for example, if you move to a different area then you will probably want the TV to tune itself to your new local stations.

This can be done either through the **Shipping Condition** menu or through the **Auto setup** menu.

The **Shipping condition** menu will reset all data, clearing all tuning information and resetting all control levels back to factory settings. You may need to adjust your VCR or programme position '0' VCR after operating the **Shipping Condition** menu – refer to page 24.

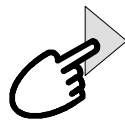
**Open the Main menu**



**Move to Setup menu**



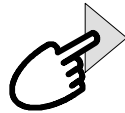
**Access Setup menu**



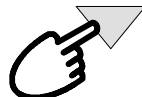
**Move to Tuning menu**



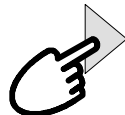
**Access Tuning menu**



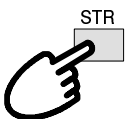
**Move to Shipping condition**



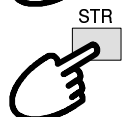
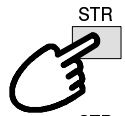
**Access Shipping condition**



**Press STR to start**



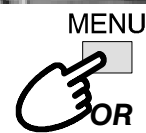
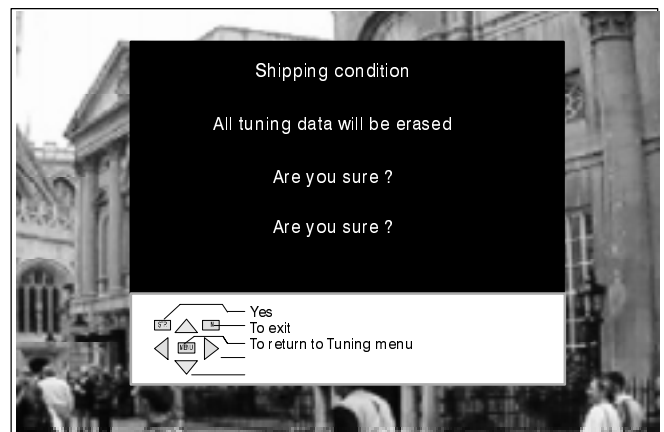
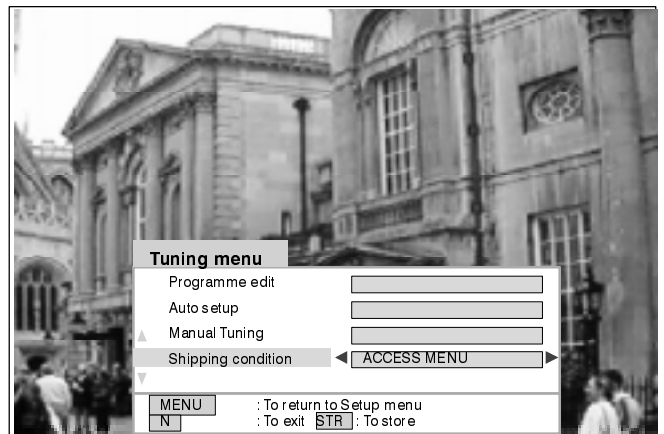
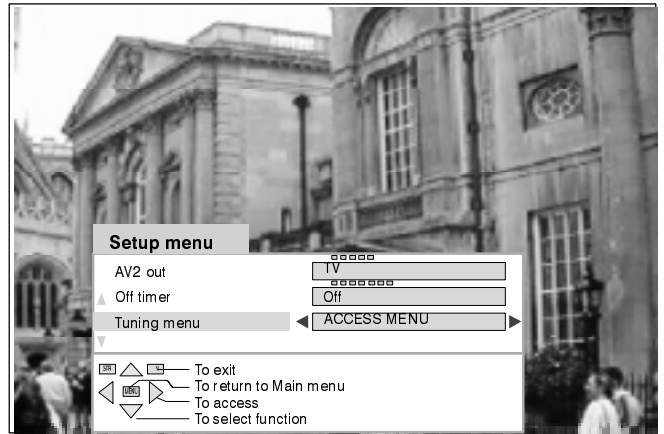
**Press again, to confirm, when you are asked, "Are you sure?"**



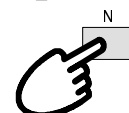
**Switch TV off and wait for a few seconds.**

**Switch TV on again.**

**Auto setup tuning will begin, stations will be located, sorted and stored ready for use. See Page 20 for details.**



**Return to Tuning menu**

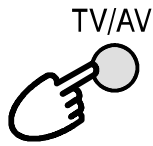


**To exit menu system**

# AV SELECT and SETUP

The AV Select menu will allow you to choose which AV source to view.

Press the TV/AV key  
(remote control or TV)

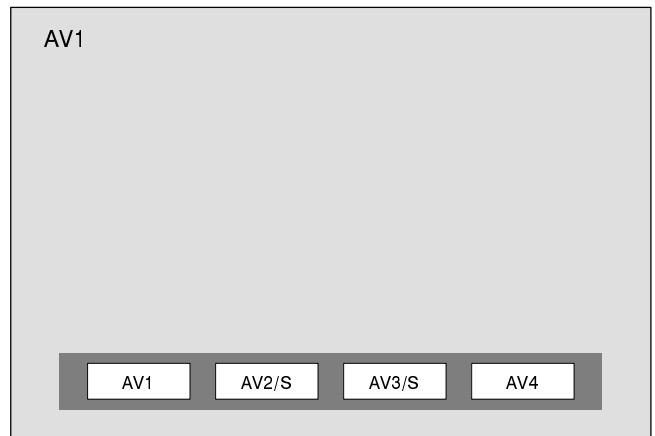


Press the appropriate coloured  
key of remote control (whilst the  
options remain on screen)



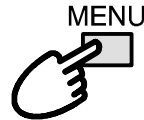
Press the green or yellow keys  
again to select S-Video input

You may wish to make  
adjustments to the Setup or Sound  
menus



## Setup Menu

Open the Main menu



Move to Setup menu



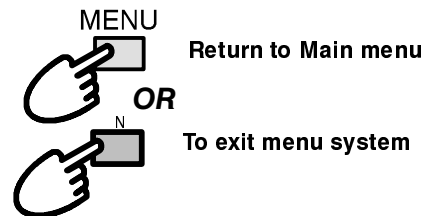
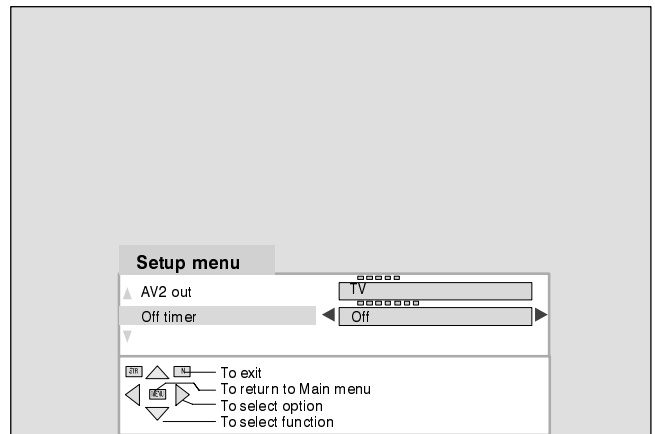
Access Setup menu



Move to your choice

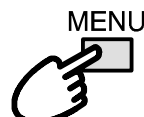


Choose from options



## Sound Menu

Open the Main menu



Move to Sound menu



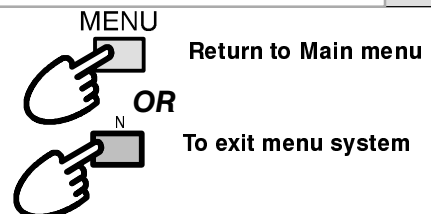
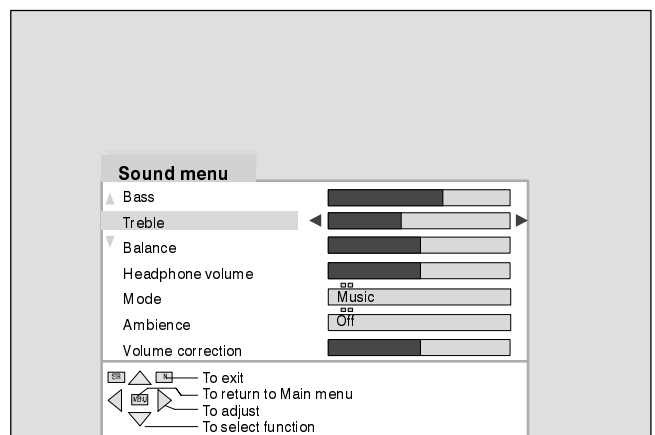
Access Sound menu



Move to your choice



Access adjustments or options





# VCR AND SATELLITE RECEIVER INSTALLATION

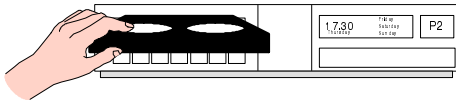
Your new TV is supplied with programme position '0' set to receive an RF signal from your VCR, although a Scart connection is preferable if the VCR is so equipped.

However, if for some reason your VCR is tuned to a different RF channel then you will not receive any picture or sound from your VCR on programme position '0' of the TV. It will be necessary to either adjust the RF channel of your VCR (some VCR's allow adjustment of their RF channel via their remote control unit) or to adjust the tuning of the TV's programme position '0' or both until it receives the RF output channel of your VCR.

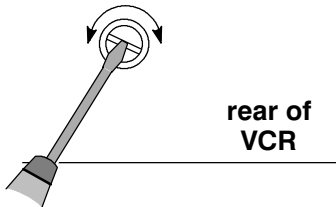
It is intended that this advice is used in conjunction with the instruction books for your additional equipment. Use the AV1 or AV4 Scart terminal for a VCR.

Use the AV2S Scart terminal for an S-Video VCR.

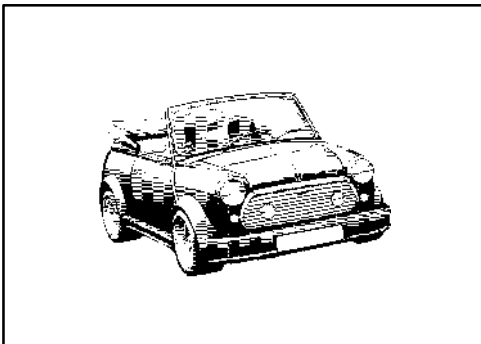
## TO TUNE YOUR VCR TO THE TV



### RF CHANNEL ADJUST



**Note :**  
Some VCR's are capable of adjusting their RF channel via their remote control unit.



**Insert recorded tape and select playback**

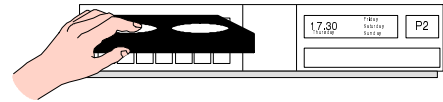
**Set TV to programme position '0' VCR**

**Adjust tuning**

**Operation completed**

**See below for installation of VCR and Satellite Receiver**

## TO TUNE YOUR TV TO THE VCR

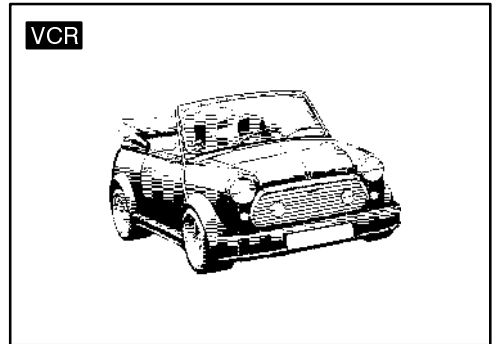
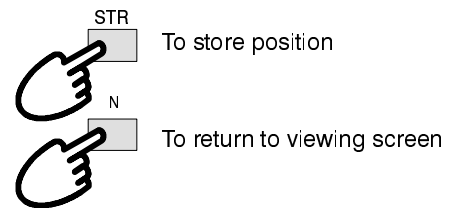
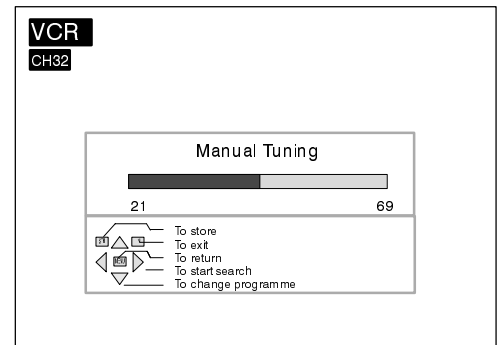


**Access the Manual tuning menu as detailed on page 21.**

▼ ▲ To select programme position '0'

◀ ▶ To start search for VCR playback

Programme position and current channel are displayed top left of screen



### Notes :

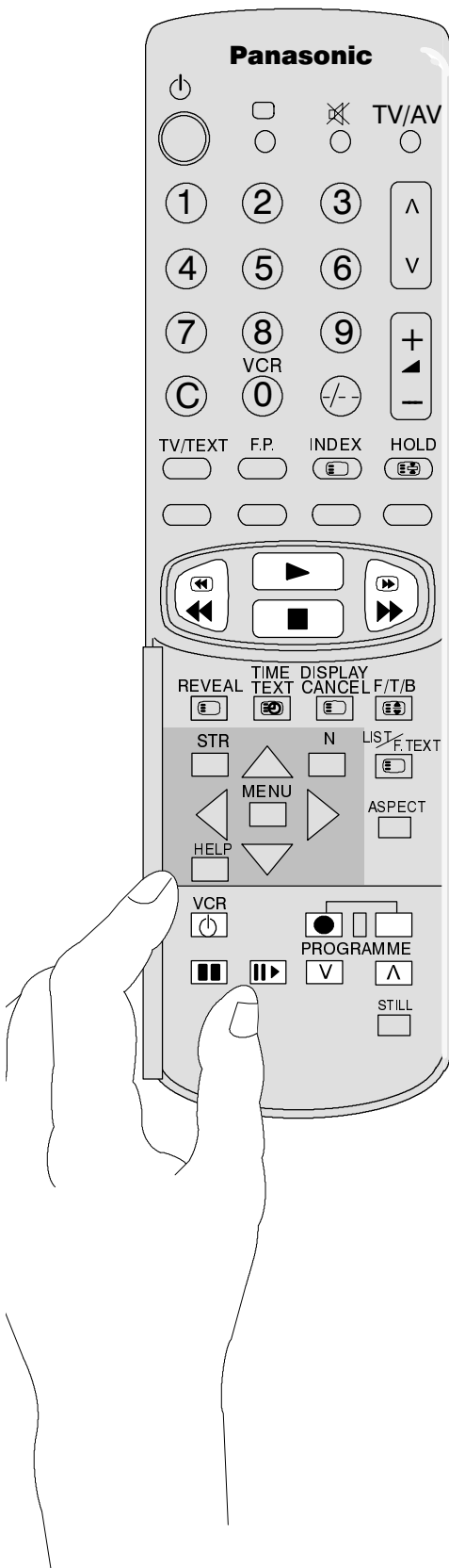
If picture patterning occurs on programme position '0' it may be necessary to adjust the RF output channel of the VCR, refer to the VCR instruction book.








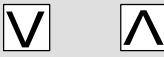

If a Satellite Receiver and a VCR are going to be used with RF cable connections **it is important** to avoid both units being set on the same channel.

Refer to the Satellite Receiver and VCR instruction books for precise tuning information.

# VCR CONTROL

The Remote Control is capable of operating some functions of selected Panasonic VCRs, please consult your dealer for details. Some VCR have different functions, so to ensure compatibility, please refer to the VCR's instruction book.



<p><b>VCR</b></p> 	<p><b>Standby</b></p> <p>Press to switch the VCR to standby mode. Press again to switch back on.</p>
	<p><b>Play</b></p> <p>Press to playback the tape.</p>
	<p><b>Stop</b></p> <p>Press to stop the tape.</p>
	<p><b>Fast Forward / Cue</b></p> <p>Press to fast forward the tape. In Play mode, press to view the picture rapidly forward (Cue).</p>
	<p><b>Rewind / Review</b></p> <p>Press to rewind the tape. In Play mode, press to view the picture rapidly in reverse (Review).</p>
	<p><b>Pause / Still</b></p> <p>Press in playback mode, the picture will pause. Press again to restart play.</p>
	<p><b>Still Advance</b></p> <p>While in PAUSE / STILL mode, press to advance the picture one frame at a time.</p>
	<p><b>Programme Up / Down</b></p> <p>Press to increase or decrease the VCR programme position by one.</p>
	<p><b>Record</b></p> <p>Press these together to record.</p>

# TELETEXT OPERATION

---

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- This TV set is capable of receiving German TOP Teletext transmissions, it will automatically switch to them if they are being received. This will be indicated in the display area at the bottom of the screen.
- Pressing the **MENU** key whilst in Teletext operation will display the contrast function with a cyan bar, press ◀ ▶ to alter the setting as required.
- When in teletext mode, the volume may still be altered to the desired listening level.

## What is LIST mode?

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

## What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information of the subjects shown.

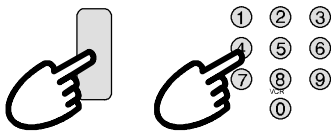
---



### TV / Teletext mode

Press the **TV/TEXT** key.  
The screen will display the Teletext page.  
Press again when you wish to return to TV. mode.

---



### Page Selection

Pages can be selected in two ways :

- Press the Up / Down keys to increase or decrease the page number by one.
- By entering the page number, using 0 – 9 on the remote control.

---



### Red / Green / Yellow / Blue keys

In FASTEXT mode these correspond to the differently coloured subjects.  
In LIST mode they correspond to the differently coloured page numbers.

---



### List / F.text

#### When in List / Fastext operation

Press to change from FASTEXT mode to LIST mode and vice versa.  
In FASTEXT mode four differently coloured subjects are displayed at the bottom of the page. Press the appropriate coloured key to access more information about one of these subjects.

---



### List Store

In LIST mode the four page numbers can be altered for channel positions 1 – 25 only.  
To do this, press one of the coloured keys and enter the new page number.  
Press and hold **STR**, the page numbers will change colour.

---



### Index

#### When in FASTEXT operation

Press **INDEX** to return to the main index page.  
Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.

---



### Full / Top / Bottom

Press to expand the TOP half of the page.  
Press again to expand the BOTTOM half.  
Press again to return to normal (FULL) size.

---



### Reveal

Press to reveal hidden words e.g. quiz page answers.  
Press again to hide.

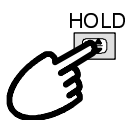
---

# TELETEXT OPERATION

---

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access operation.

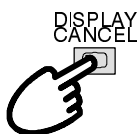
---



## Hold

To hold the Teletext page when viewing multipage information.  
Press again to return to automatic page update.

---



## Display Cancel

Press **DISPLAY CANCEL** to view the TV picture whilst searching for a Teletext page.  
When found, the screen will display the page number at the top left.  
Press **DISPLAY CANCEL** to view the page.  
Press **TV / TEXT** to return to normal TV operation.

### News Flash

When a news flash page has been selected, press **DISPLAY CANCEL** to view the TV picture, when an update is received, it will be displayed on screen.  
Press **DISPLAY CANCEL** to remove updated news.  
Press **TV / TEXT** to return to normal TV operation.

### Update

Press **DISPLAY CANCEL** to see the update of information on certain pages.  
When an update is received, the page number will be displayed at the top left of the screen.  
Press **DISPLAY CANCEL** to view the page.  
Press **TV / TEXT** to return to normal TV operation.

---

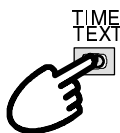


## Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, and the programme position must be from 1 – 25. Press the **BLUE** key, select the page number, then press **STR**. The page number is now stored.  
Press **F.P.** to recall this page.

Depending on the transmission sequence, when the F.P. key is pressed, the contents of the favourite page may take some time to appear. Only the page number is stored, not it's contents.

---



## Sub Coded Page Access

When teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found.

Select the required page number using keys 0 – 9.

Press **TIME TEXT**, \*\*\*\* will be displayed (top right of the screen).

Enter desired sub page number before the \*\*\*\* disappears.  
To select page 6 enter 0, 0, 0 and 6.

If in LIST mode, a 'T' will appear in the current box at the bottom.

Press **DISPLAY CANCEL** to view a normal TV programme.

When the page is available, press **DISPLAY CANCEL** to view the page.

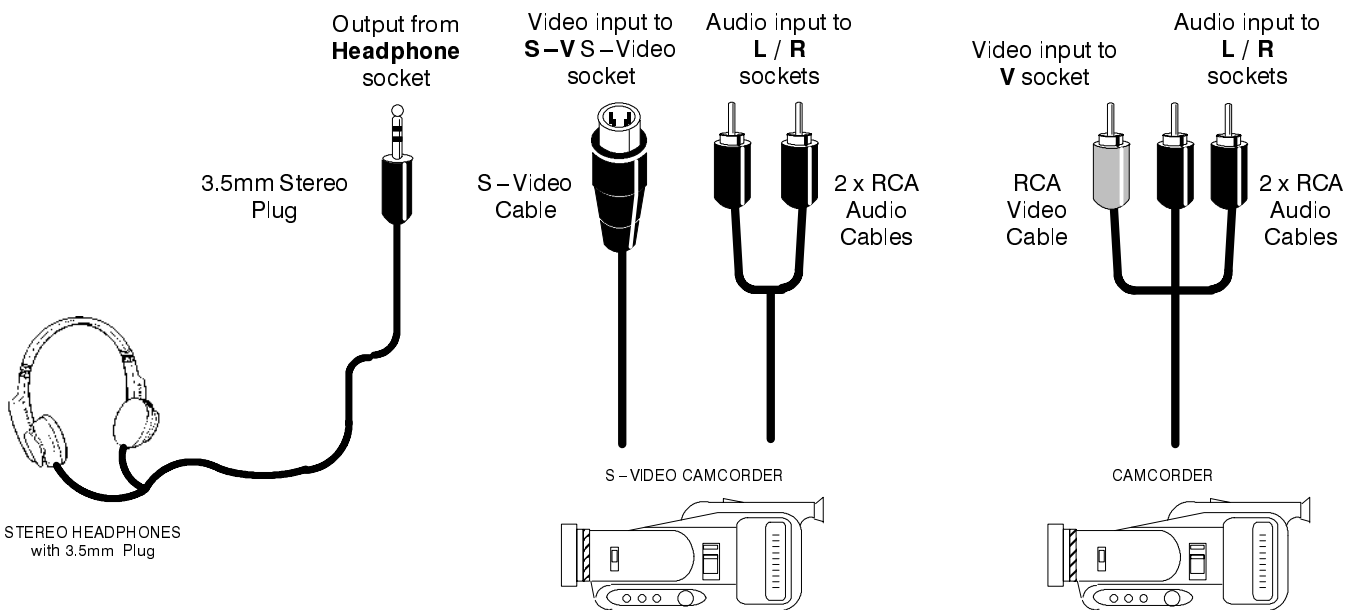
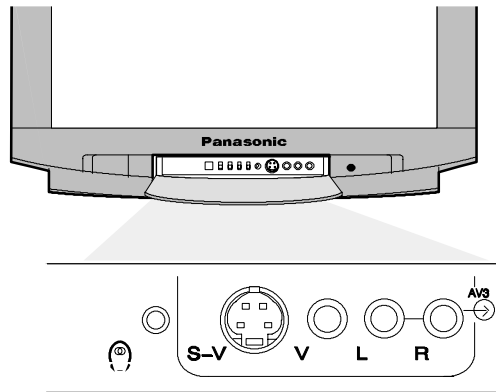
To clear the page perform one of the following :

- Select a new page number.
  - Press **TV/TEXT** to return to normal TV operation.
- 

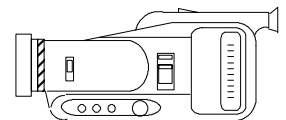
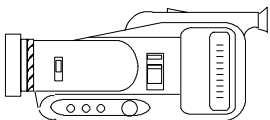


# AUDIO/VIDEO CONNECTIONS

## Front AV3 4 Pin S-Video, RCA Audio /Video and Headphone Sockets



STEREO HEADPHONES with 3.5mm Plug



**Note :**  
Ancillary equipment and cables shown are not supplied with this TV set.

## ■ SCART and S-Video Terminal Information

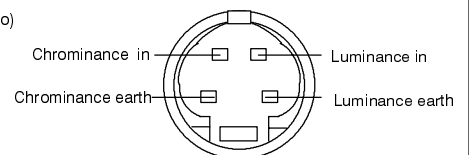
### AV1 and AV4 21 pin SCART terminals

Socket Earth	21	20	CVBS in (video)
CVBS out (video)	19	18	RGB status earth
CVBS earth	17	16	Status RGB - AV1
Red in - AV1	15	14	Earth
Red earth - AV1	13	12	--
Green in - AV1	11	10	--
Green earth - AV1	9	8	Status CVBS
Blue in - AV1	7	6	Audio in (L)
Blue earth - AV1	5	4	Audio earth
Audio out (L)	3	2	Audio in (R)
Audio out (R)	1		

### AV2 21 pin SCART terminal

Socket Earth	21	20	CVBS in (video)
CVBS out (video)	19	18	Earth
CVBS earth	17	16	--
S.C. - In	15	14	Earth
Earth	13	12	--
--	11	10	--
Earth	9	8	Status CVBS
--	7	6	Audio in (L)
Earth	5	4	Audio earth
Audio out (L)	3	2	Audio in (R)
Audio out (R)	1		

### S-Video 4 pin terminal

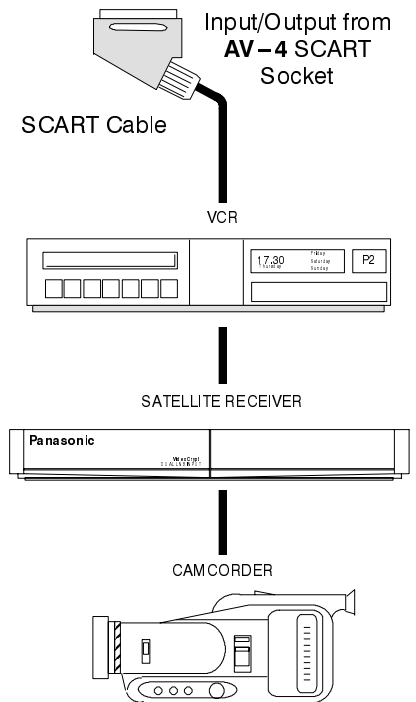
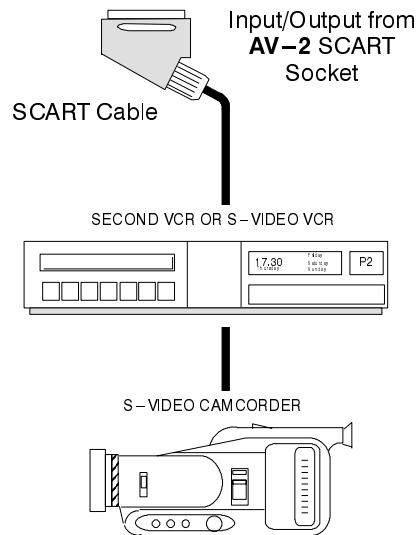
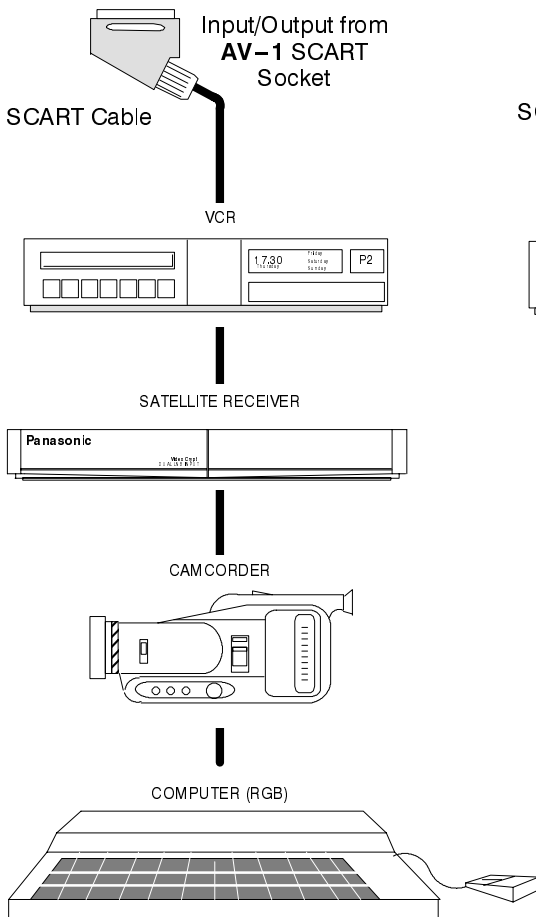
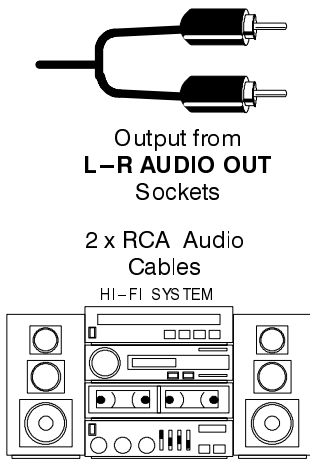


Suitable inputs for **AV1** include RGB (Red/ Green/Blue).  
**AV4** does not have RGB input capability.

**AV2** - Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.

# AUDIO/VIDEO CONNECTIONS

## Rear AV1 / AV2(S) / AV4 21 Pin SCART and RCA Audio Out Terminals




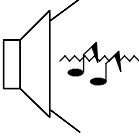

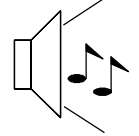

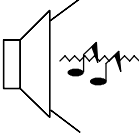

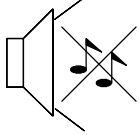

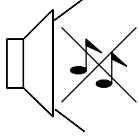

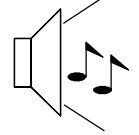
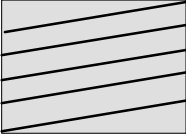
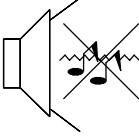

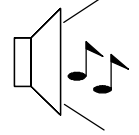

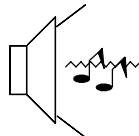
### NOTES:

Ancillary equipment and cables shown are not supplied with this TV set.

Do not connect a computer with TTL output (5V) to this set.

The AV2 21 pin terminal can also be used as an Output to Audio / Video Equipment (refer to page 13 for details).

# TROUBLE-SHOOTING

Symptoms		Checks
Picture	Sound	
 Snowy Picture	 Noisy Sound	Aerial location, direction or connection
 Multiple Images	 Normal Sound	Aerial location, direction or connection
 Interference	 Noisy Sound	Electrical appliances Cars / Motorcycles Fluorescent lights
 Normal Picture	 No Sound	Volume level Sound mute switched on
 No Picture	 No Sound	TV set to AV mode Not plugged into A.C. outlet Not switched on Picture / Sound controls set at minimum levels Check if in standby mode
 No Colour	 Normal Sound	Colour controls set at minimum levels
 Poor or Distorted Picture	 Weak or No Sound	Retune Channel(s)
 Coloured Patches	 Normal Sound	Magnetic Interference from unshielded equipment Receiver moved while switched ON, switch TV off for 30 minutes.
 Normal Picture	 Weak or distorted sound	Sound reception may have deteriorated. Switch Nicam setting (Sound menu) to Off until reception improves.

## FOR YOUR GUIDANCE

### ■ Service

Before requesting service, please refer to the trouble-shooting guide on previous page to determine the symptoms. To obtain service please contact your local Panasonic dealer quoting the model number and serial number (both are located at the rear of the TV).

### ■ TV Games / Home Computers

Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible picture tube damage, can be limited by observing the following points:

- Reduce the brightness and contrast levels to a minimum viewing level.
- Do not operate the television set for a continuous period of time while using TV games or home computers.
- This type of picture tube damage, is not an operating defect, and as such is not covered by the Panasonic warranty.

### ■ Sleep Feature


If the set is not switched off when the TV station stops transmitting, it will automatically go to standby mode after 30 minutes. This function will not operate when the TV is in AV mode.

### ■ Last Position Memory

Certain functions have a last position memory, i.e. the setting at the time of switch-off will be the setting used when the receiver is switched on again: –

Programme	Tint (M.NTSC / NTSC only)
Ambience	Contrast
AV Position	Sharpness
Volume	Aspect
Nicam	Standby
Bass	Colour
Treble	Brightness
Balance	Headphone volume
AV2 OUT selection	Colour system
Status	Mode
Volume correction (AV mode only)	

## SPECIFICATIONS

		TX-W32D2	
Power Source		220 – 240V 50Hz A.C.	
Power consumption		151W	
Standby consumption		1W	
Picture Tube		76cm visible diagonal	
Audio Output (Music)		2 x 20W, 8Ω impedance	
Dimensions	H W D	555 mm 862 mm 553 mm	
Weight (Kg)		51	
Receiving Systems/ Band name	PAL I PAL 525/60 M.NTSC NTSC (AV input only)	UHF E21 – 69 Playback of NTSC tape from some PAL Video recorders (VCR) Playback from M.NTSC Videorecorders (VCR) Playback from NTSC Videorecorders (VCR)	
Aerial – Rear		UHF	
Headphones – Front		3,5mm, 8Ω impedance	
AV – Rear		AV1 – 21 pin terminal – Audio / Video in / out, RGB in. AV2 – 21 pin terminal – Audio / Video in / out, S-Video in, Selectable output. AV4 – 21 pin terminal – Audio / Video in / out 2 x RCA Audio Monitor Out	
AV – Front		AV3 – S-Video in, 2 x RCA Audio in, 1 x RCA Video in	

Specifications are subject to change without notice. Weight and dimensions shown are approximate.