

# Panasonic



## TX - 47PT1F


### Projection Television



**100Hz**  
SUPER DIGITAL SCAN



## Operating Instructions

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Dolby Laboratories.  
Manufactured under license from Dolby Laboratories

# WELCOME

Dear Panasonic Customer,

Welcome to the Panasonic family of customers. We hope that you have many years of enjoyment from your new projection 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 set is designed to operate on A.C. 220 - 240V, 50Hz.
- 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.
- The On/Off switch on this model does not fully disconnect the TV from the mains supply. Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time.
- **SCREEN CARE**  
Clean the screen using the cloth which is provided with the screen.
- **CABINET CARE**  
Remove the mains plug from the wall socket. The cabinet 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, so 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 10cm is left all around this television receiver even when it is placed inside a cabinet or between shelves.
- Best watching Projection TV position to enjoy the dynamic picture and sound, please keep more than 2.5 meters between TV set and customer.

### Note:

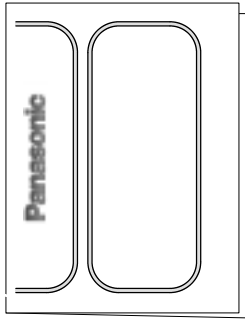
- (1) The long time (max. 2 hours) use of TV game on the set is not recommended since the signal from TV game may be the cause of damage on picture projection tubes on the set.
- (2) Do not allow any still picture or parts of picture that do not move on the screen for an extended length of time. These pictures can adversely affect your picture projection tubes.  
Some examples of still images are Television programming logos, Video games, Computers and Text programmes, etc. If still picture cannot be avoided, reduce the brightness and contrast levels of the picture to minimize any damage that might occur.
- (3) When changing the channel or selecting the input, the picture image will move around within a range of approximately 3 mm to prevent the image from burning into the picture tube.

# ACCESSORIES

Check that you have the accessories and items shown 



Operating Instruction book



TQBC0121



Remote Control Transmitter  
EUR511220



TV Guarantee



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



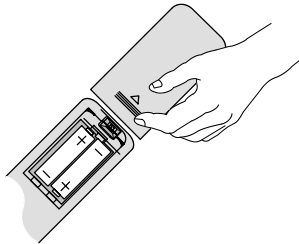
Caster stands (4)  
TBLB3008



Screen cleaning cloth  
TPEX007



## Remote control batteries



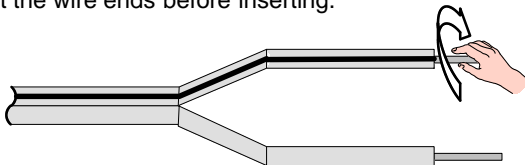
- Make sure that the batteries are fitted the correct way round.
- Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.
- Do not mix different battery types, i.e. Alkaline and Manganese or use rechargeable (Ni - Cad) batteries.

# QUICK START GUIDE

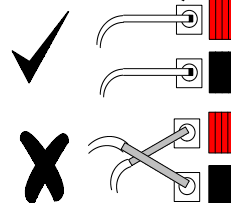
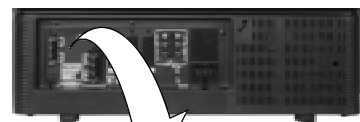
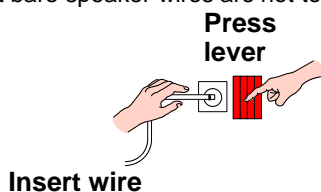
## Connecting Surround Speakers (OPTION)

The TV must be switched Off.

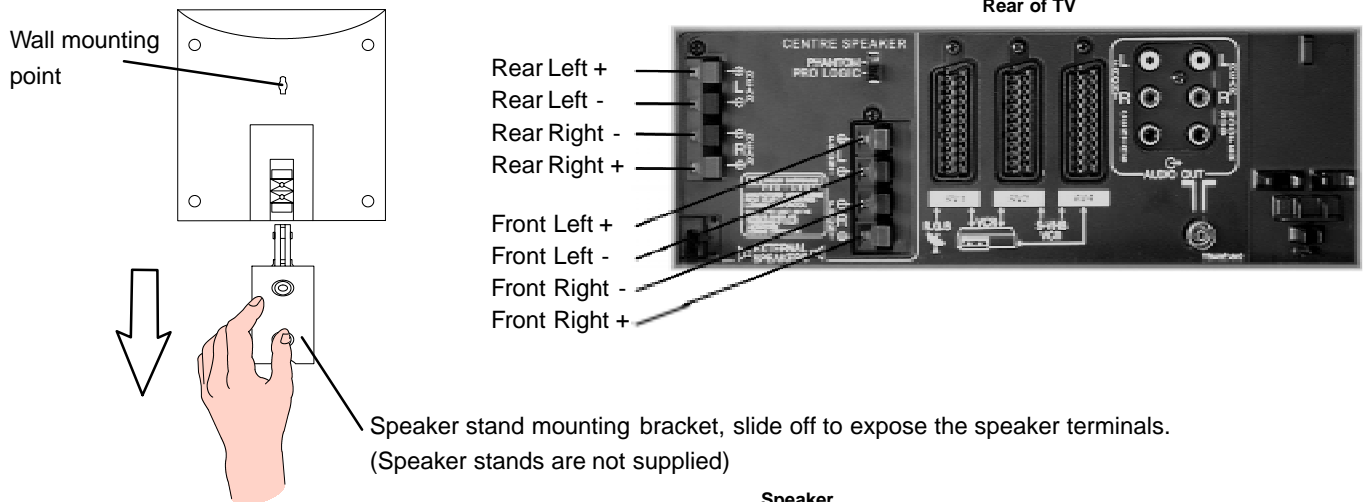
1. Twist the wire ends before inserting.



2. Insert into terminals.  
Ensure that bare speaker wires are not touching.

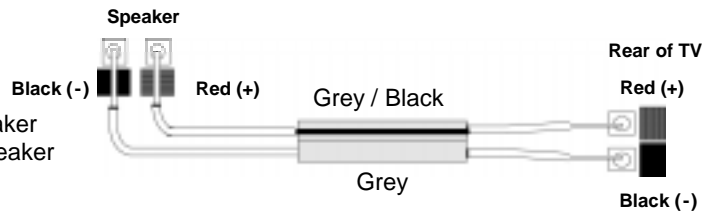


## Connecting Surround Speakers (OPTION)

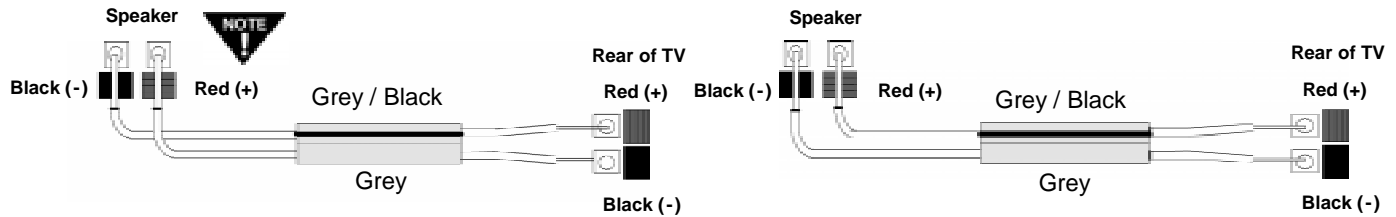


Connect the four speakers as shown:

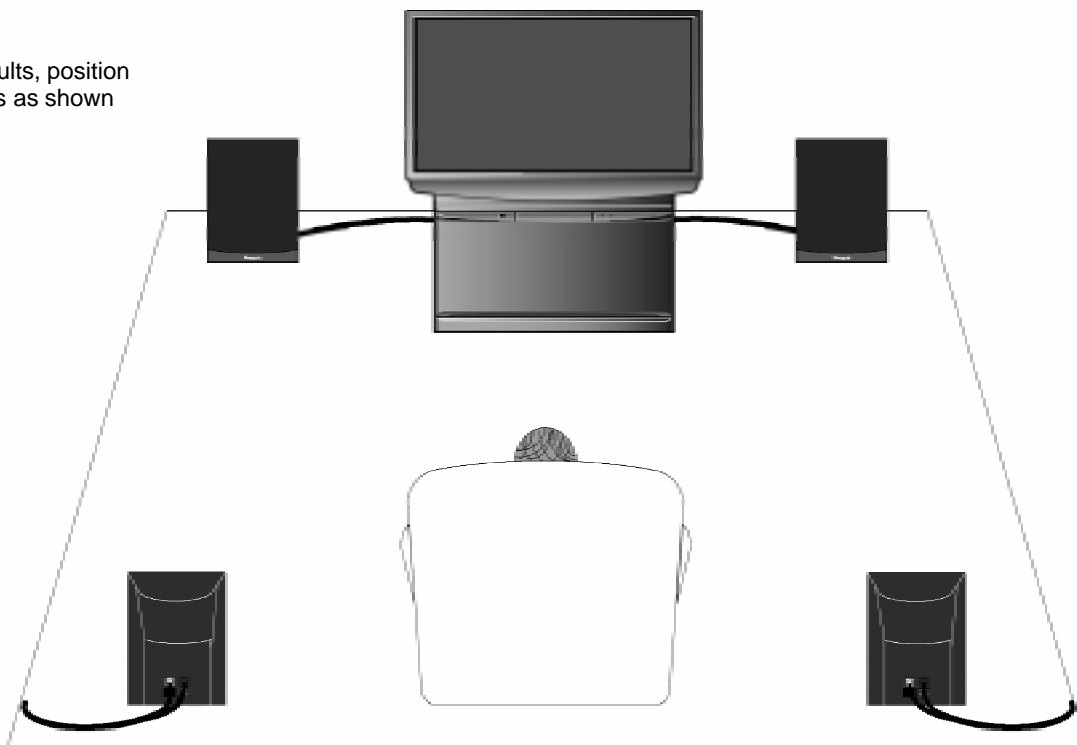
TV + (Red) terminal connected to + (Red) terminal on the speaker  
TV - (Black) terminal connected to - (Black) terminal on the speaker



To create an artificial ambience effect the REAR speakers can be connected with the wiring to one speaker 'crossed over' :

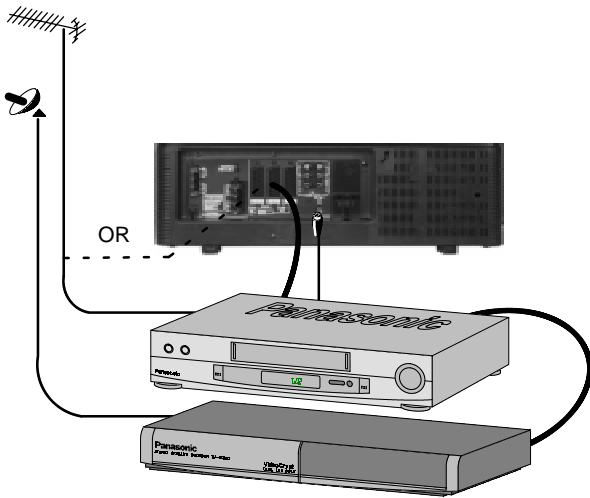


For best results, position the speakers as shown



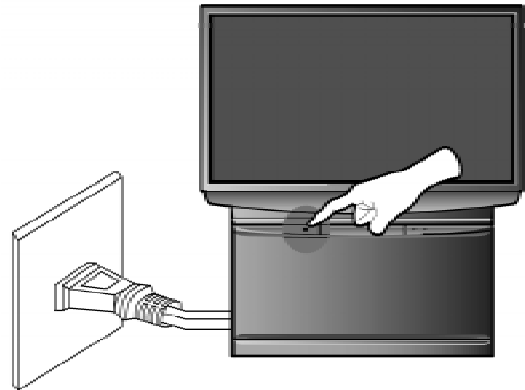
## Quick Start Guide

1



Plug in aerial and connect ancillary equipment

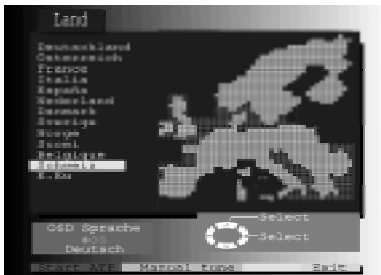
2



First, ensure that the **VCR is in Standby mode**

Plug in T.V. and switch on

3



Select your country For Switzerland and Belgium, select the desired language



Press the red button



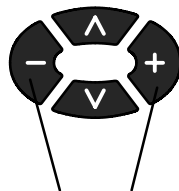
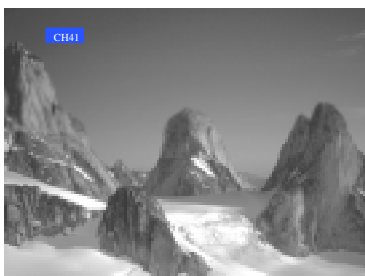
4



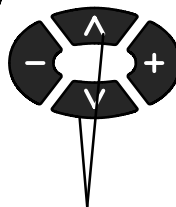
Auto setup will begin, your stations will be located and stored.

If a compatible VCR is connected to the AV2 socket, programme data will be downloaded to the VCR via Q - Link. See page 24.

5



Adjust Volume



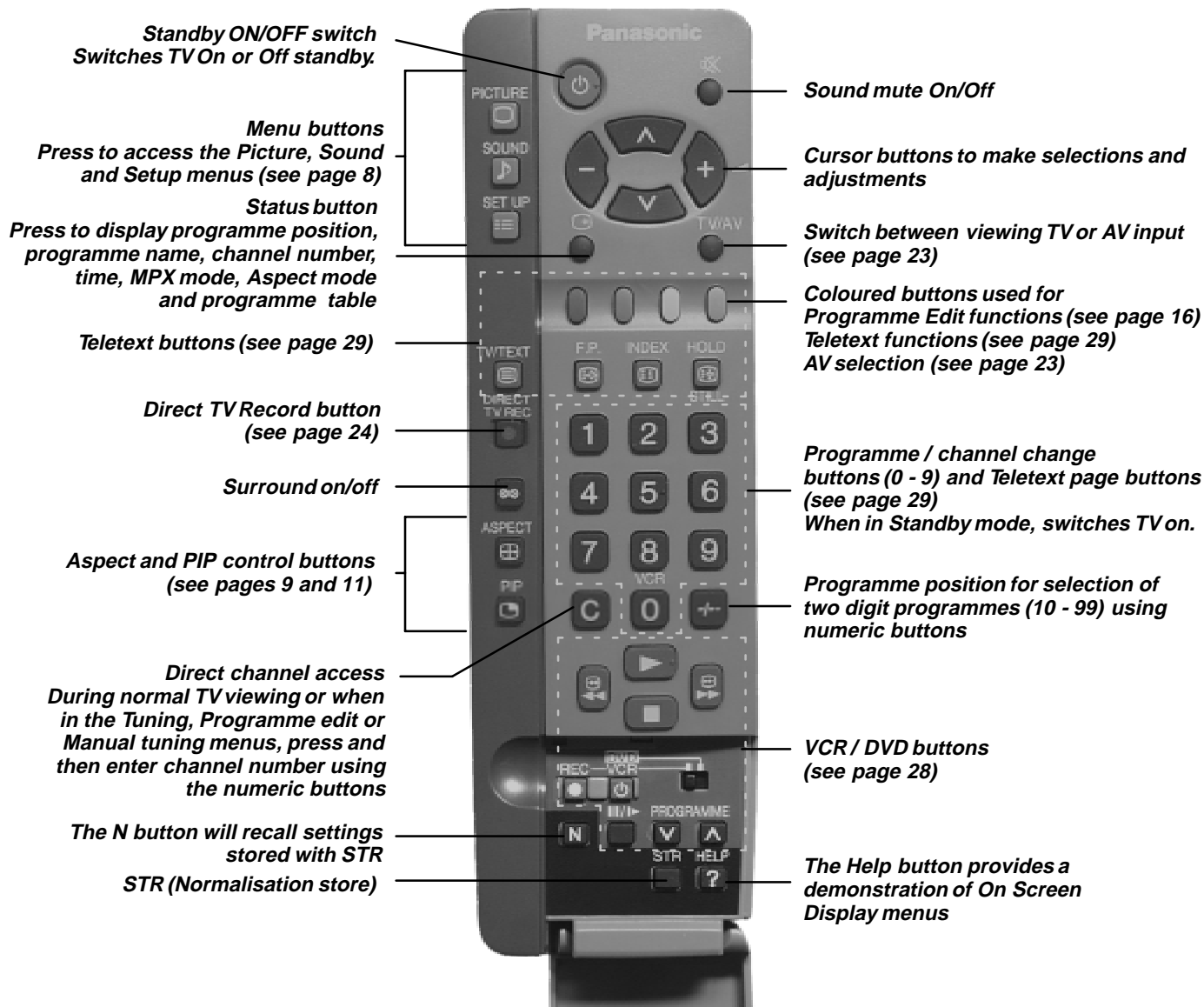
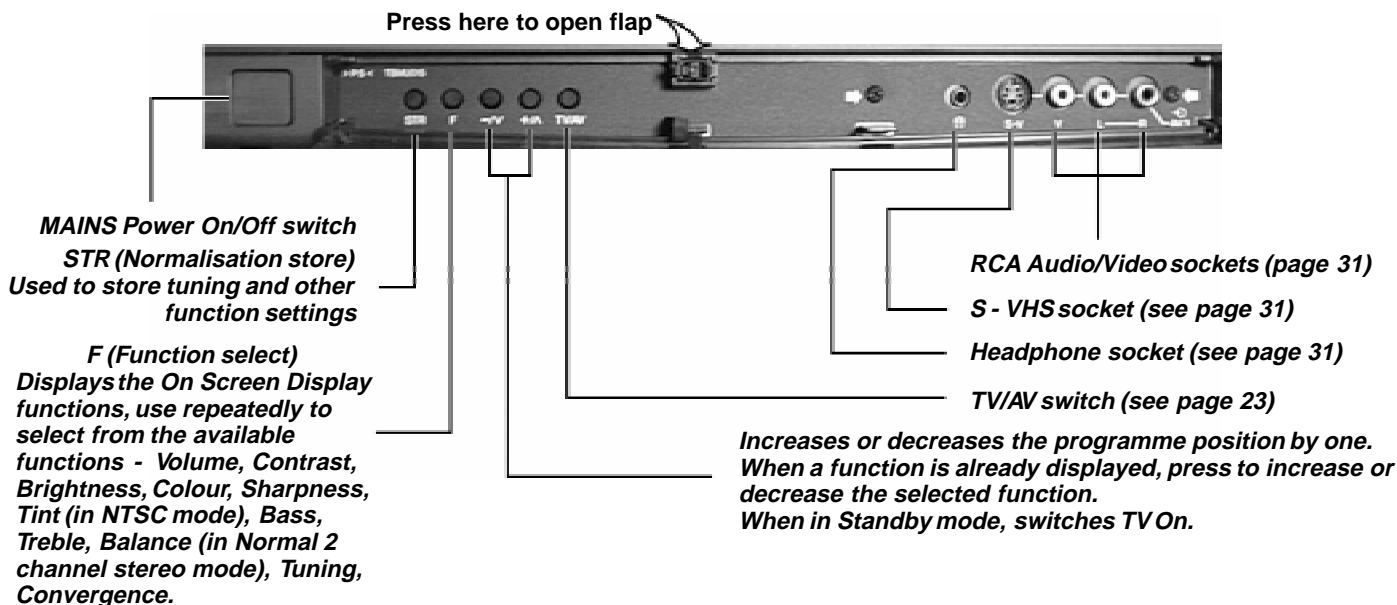
Change Channel

If you are installing a new Q - Link compatible VCR, you can now switch it ON. Downloaded tuning data will match the television's.

If you are installing a new NEXTVIEWLINK compatible VCR, you will need to initiate download manually. See the VCR handbook for details.

- If the VCR has not accepted download data from the TV, you may need to select the Download option from the VCR's menu.
- If Q - Link is not operating correctly, check it is connected to the television's AV2 socket, the SCART lead is a "full function" type, and the VCR is compatible with Q - Link, NEXTVIEWLINK or similar technologies. Ask your dealer for further details.
- For further information on Q - Link and connecting equipment, see pages 24, 31 and 32.

# BASIC CONTROLS : FRONT PANEL AND REMOTE CONTROL







# ASPECT CONTROLS

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

Press the **ASPECT** button to move through the six aspect options: **Panasonic Auto**, **4:3**, **Zoom**, **S - Zoom**, **16:9** and **Just**

ASPECT

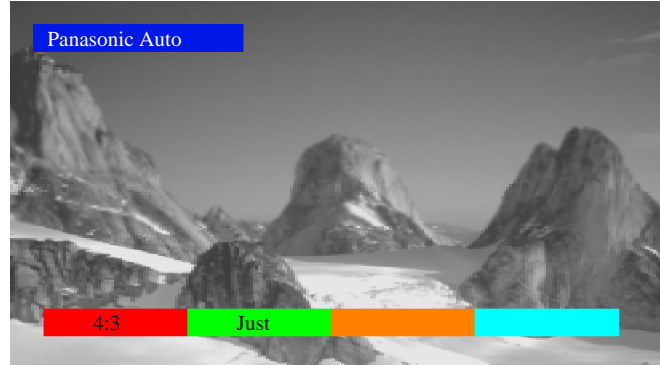


## Panasonic Auto

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.

If the original source signal was a standard 4:3 aspect ratio then you might prefer to view it 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.



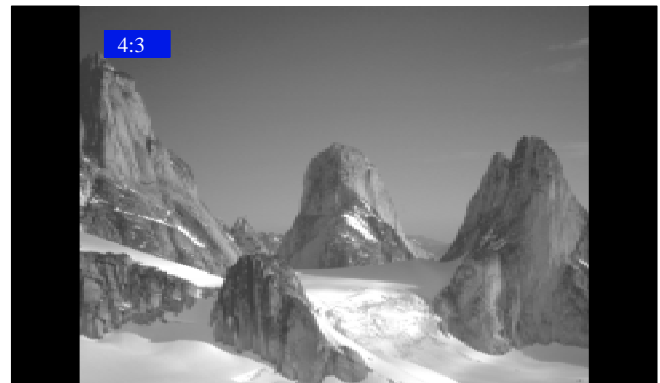
Panasonic Auto

## 4:3

**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.

NOTE:

- After setting this mode, turn the power off and back on again to activate the Just mode setting.

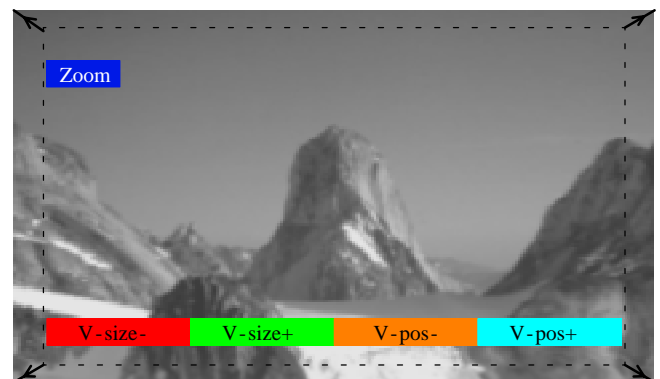


4:3

## Zoom

**Zoom** mode magnifies the central section of the picture.

The picture can be moved and enlarged vertically using the coloured keys. The former adjustment is useful for viewing any sub - titles which may appear outside the picture.



Zoom

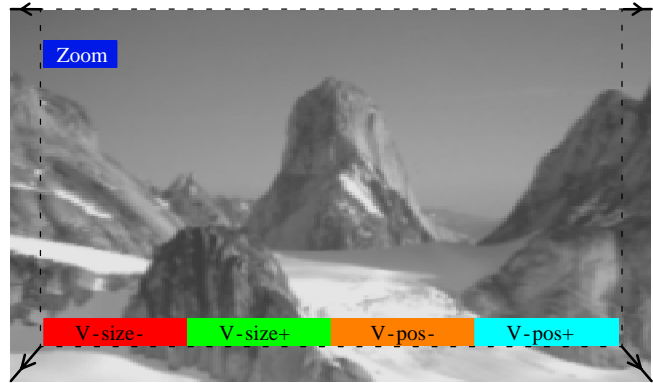
# ASPECT CONTROLS

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.

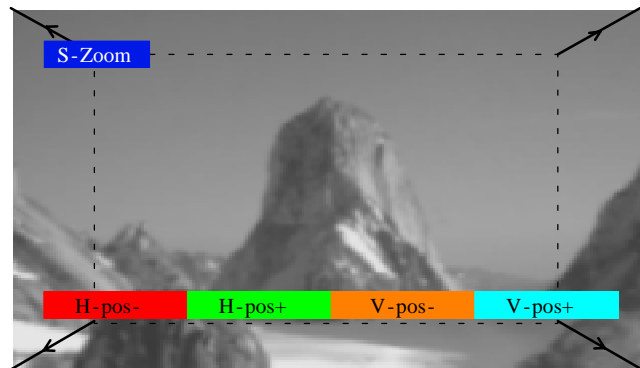
If, in Panasonic Auto mode, you experience problems with the screen display size when playing back widescreen format recordings from your VCR then it is possible that the tracking control of your VCR requires adjustment (your VCR instruction book will contain adjustment details).



Blue key has been pressed to move picture upwards

## S - Zoom

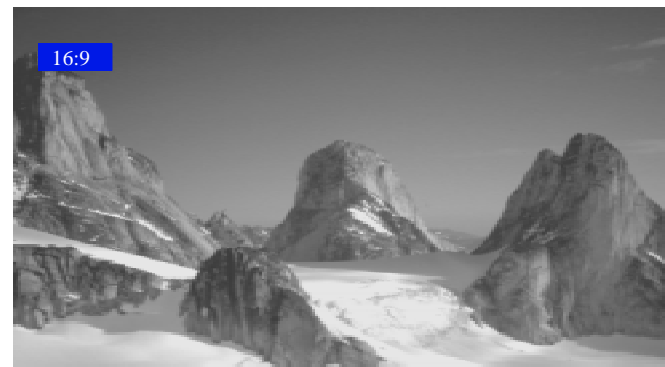
**S - Zoom** allows increased magnification and the ability to move the picture horizontally and vertically.



Increased magnification with **S - Zoom**

## 16:9

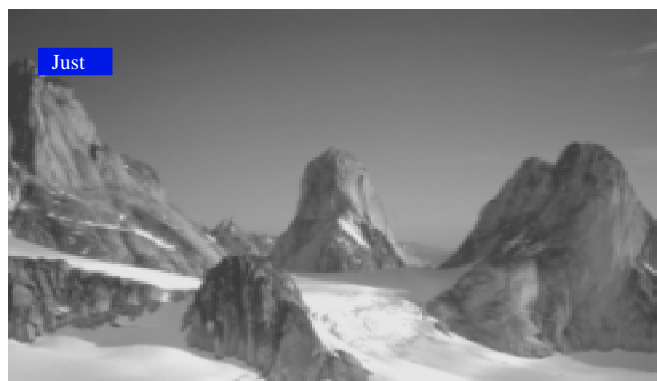
**16:9** will display the picture at its maximum size but with slight elongation.



16:9

## 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 on the original signal.



Just

## PICTURE - IN - PICTURE (PIP) CONTROLS

PIP allows two pictures to be viewed at the same time.  
The PIP key will switch the PIP function On and Off.



The red key (Locate) will allow you to select the position of the PIP picture.

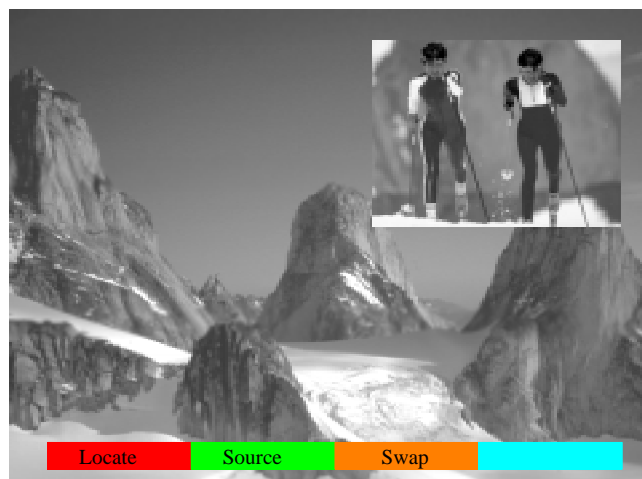
The green key (Source) will allow you to select the current TV screen or the input to AV1, AV2, AV3 or AV4 as the PIP picture.

The yellow key (Swap) will allow you to swap the PIP picture with the main picture and vice - versa.

Pressing the PIP button a second time while the Locate, Source and Swap reminder is displayed will turn off PIP mode. The options available on the reminder bar depend upon the current aspect mode selected.



Pressing the PIP key will display the PIP picture



Above, the PIP picture has been moved to an alternative position by pressing the red key.

## STILL CONTROL

### STILL Control

The STILL key allows you to freeze the picture at any time.



When using the STILL key with the PIP function press to freeze the main picture, press again to release the main picture and freeze the PIP picture, press again to release the PIP picture.



# PICTURE MENU

Open the Picture menu

PICTURE



Move to your choice

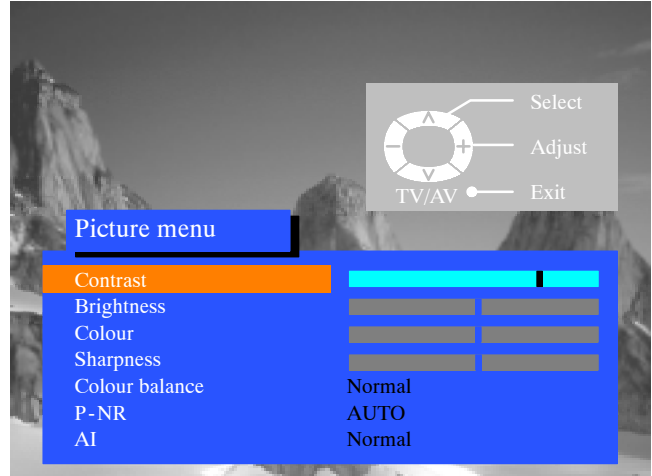


Increase or decrease levels or set options



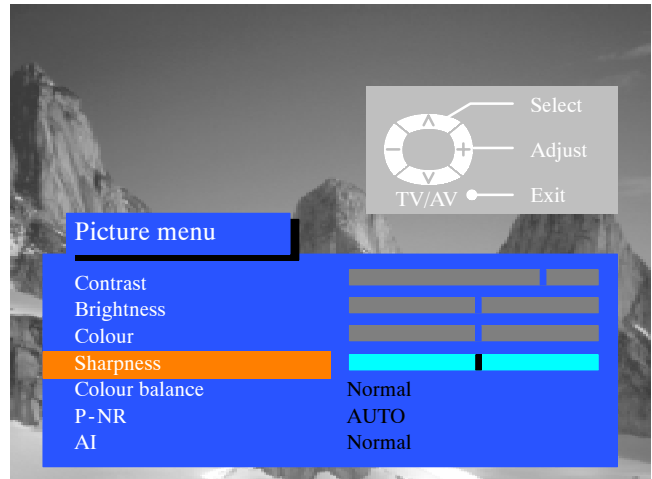
Press the TV/AV button to exit the Picture menu

TV/AV



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 source connected to the TV and will allow adjustment of the hue.



## Colour balance



The Colour balance setting allows you to set the overall colour tone of the picture.

## P - NR



P - NR will automatically reduce unwanted picture noise.

## AI



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



Open the Sound menu



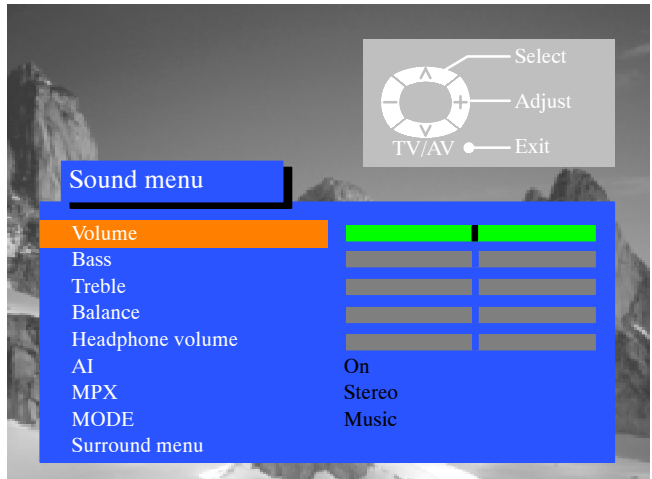
Move to your choice



Increase or decrease levels or set options



Press the TV/AV button to exit the Sound menu



## Volume

The Volume adjustment sets the overall output volume.

## Bass

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

## Treble

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

## Balance

(This function will only operate with the Surround feature switched Off - See page 25). 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.

## AI



(This function will only operate with the Surround feature switched Off - See page 26). The AI setting automatically analyses the incoming sound signal and processes it to give lower noise and optimum tone for the programme material.

## MPX



MPX will usually be set to Stereo to provide the best reproduction, however if reception deteriorates or if the service is not available then it is advisable to switch to Mono. Mono (M1) and (M2) can also be selected if signals are being transmitted.

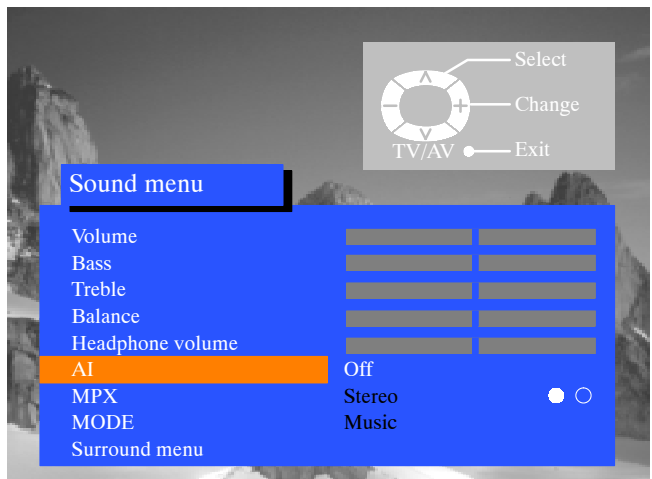
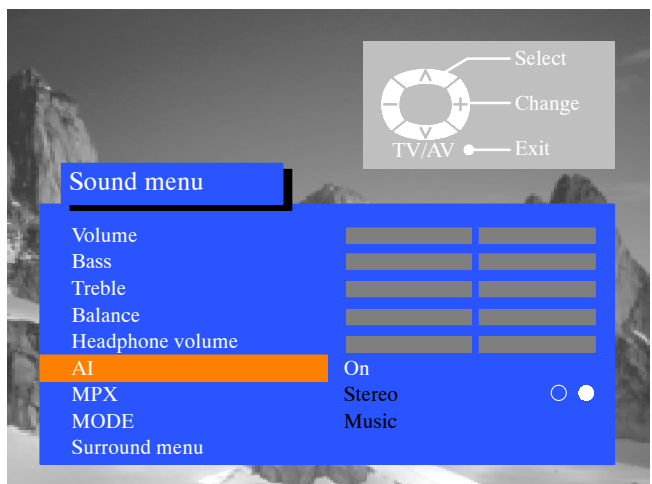
## MODE



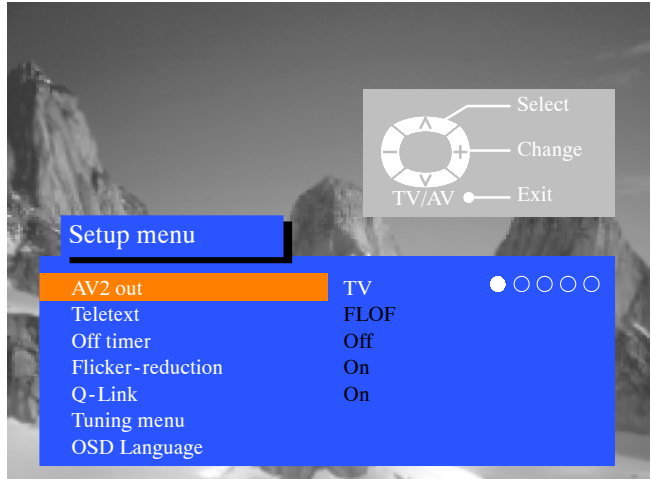
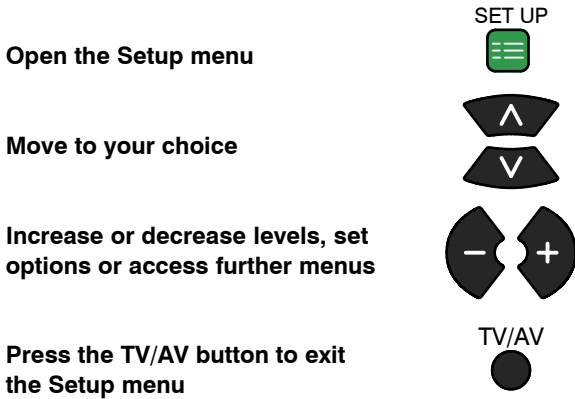
Bass and Treble are set to the optimum levels for music or speech.

## Surround menu

Leads to the Surround menu for Dolby Pro Logic and simulated modes of operation, as described on pages 25 to 27.



The Setup menu provides access to various advanced features and also to 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.

● ○  
**Teletext**

The Teletext option allows you to choose between FLOF/TOP or LIST mode. See page 29.

● ○ ○ ○ ○ ○ ○ ○ ○ ○  
**Off timer**

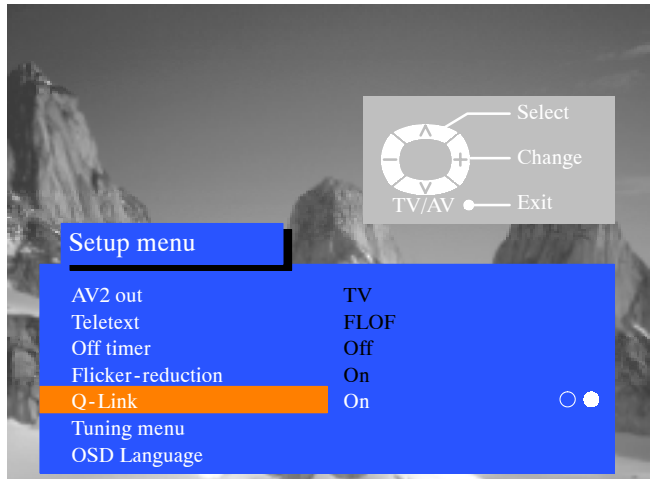
Off timer will switch the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

● ○  
**Flicker - reduction**

You will normally find that Flicker - reduction is best set to On to reduce any slight picture movement. However, it is possible that some occasional broadcasts may benefit by selecting the Off position.

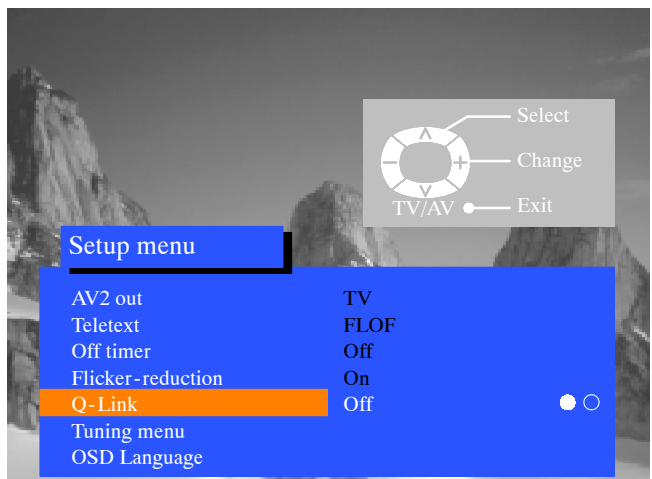
○ ●  
**Q - Link**

Q - Link allows you to enable or disable data communication when a VCR compatible with Q - Link, NEXTVIEWLINK or similar technology is connected. See page 24.



**Tuning menu**

The Tuning menu provides an entry to many other features including Programme edit and Auto setup. See page 15.



**OSD Language**

OSD Language allows you to select the language used for On Screen Displays. See page 22.

Open the Setup menu



Move to Tuning menu



Access Tuning menu



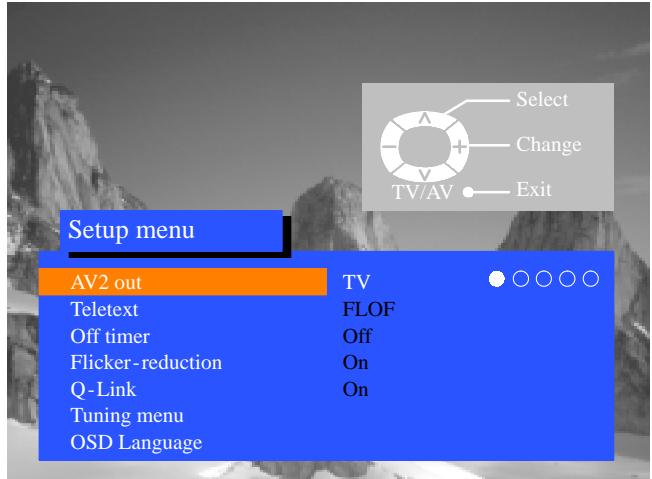
Move to your choice



Increase or decrease levels, set options or access further menus



Press the TV/AV button to exit



## Programme edit

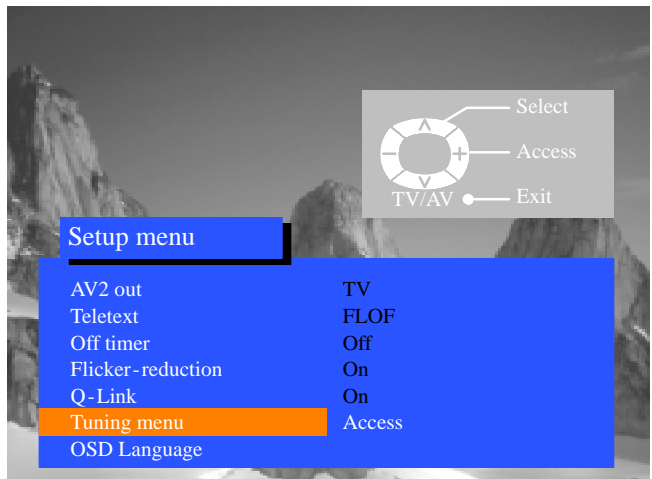
Accessing the Programme edit menu will allow stations to be moved, added, deleted, named or locked. See page 16.

## 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.



## Fine tuning

Small adjustments to tuning can be made using the Fine tuning function.

## Colour system

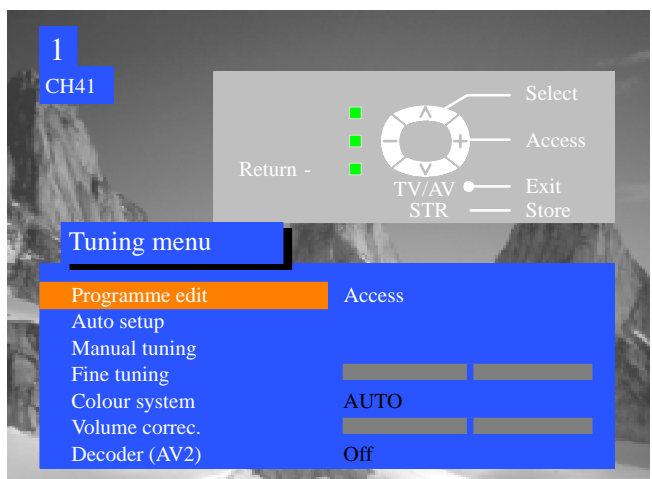
The Colour system menu allows you to decide the correct choice of transmission standard.

## Volume correction

Volume correction allows you to adjust the volume level of individual stations.

## Decoder (AV2)

This option is used when a decoder is connected via AV2. Set to On if a scrambled signal is to be processed by the decoder. Set to Off after use.



# TUNING MENU - PROGRAMME EDIT

The Programme edit menu allows you to edit the programme position settings

Open the Setup menu



Move to Tuning menu



Access Tuning menu



Move to Programme edit menu



Access Programme edit menu

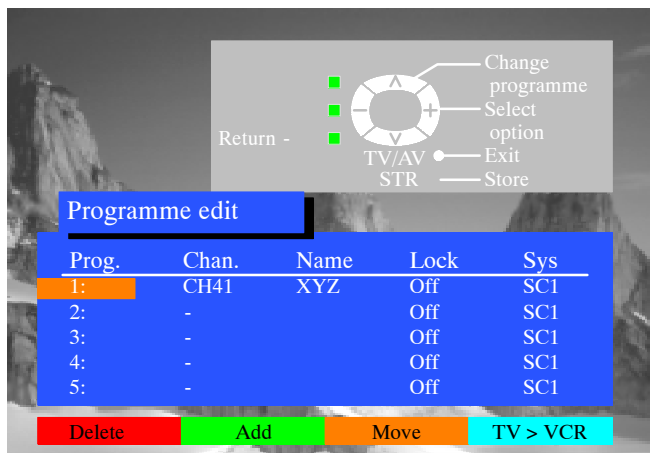
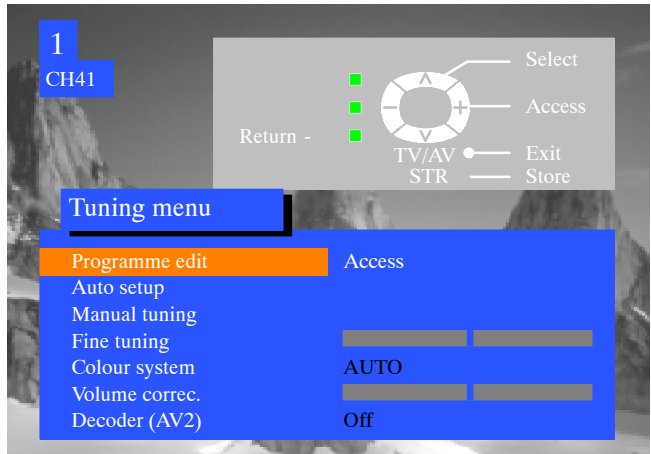
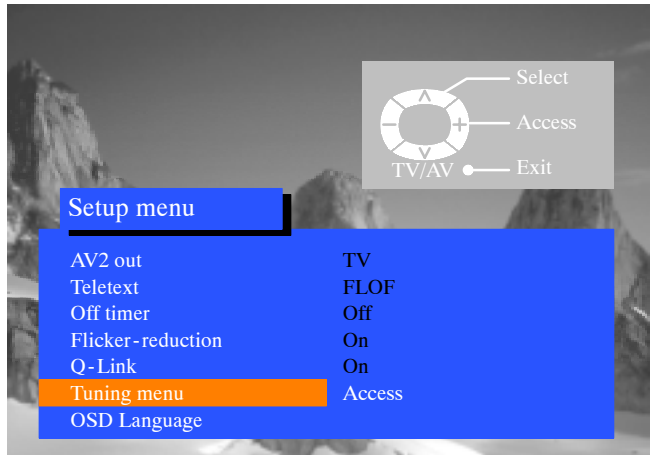
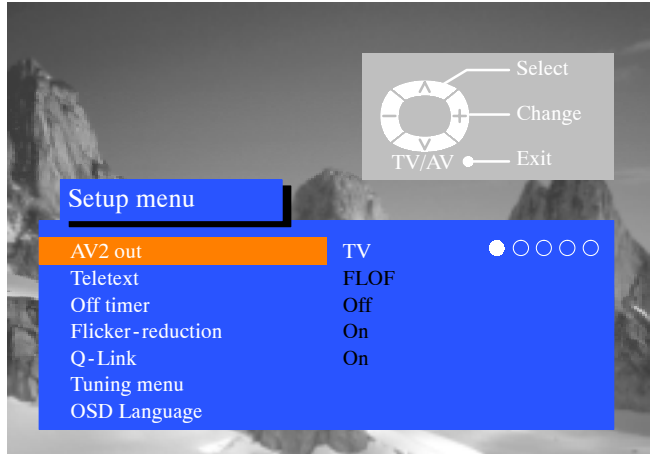


Make required changes  
(see sections below)

Press STR button to store changes



If you have finished in the Programme edit menu, press the TV/AV button to exit



## To delete an unwanted programme position

Ensure that the cursor is in the Prog. Column

Choose the programme position



Press the Red button on remote control



Press the Red button again to confirm



If you have finished in the Programme edit menu, press the TV/AV button to exit





## To add a programme position

Choose the programme position where the new programme is to be inserted



Press the Green button



Press the Green button again to confirm

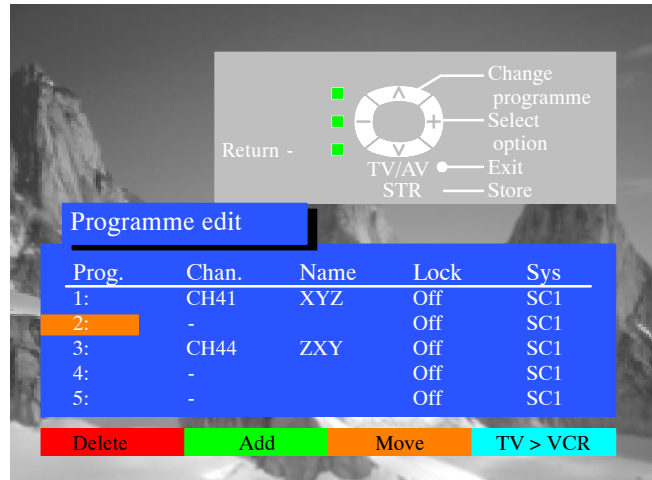


This blank programme can then be tuned, named or locked.

Press STR to store



If you have finished in the Programme edit menu, press the TV/AV button to exit



## To move a programme to another position

Choose the programme position to be moved



Press the Yellow button on remote control



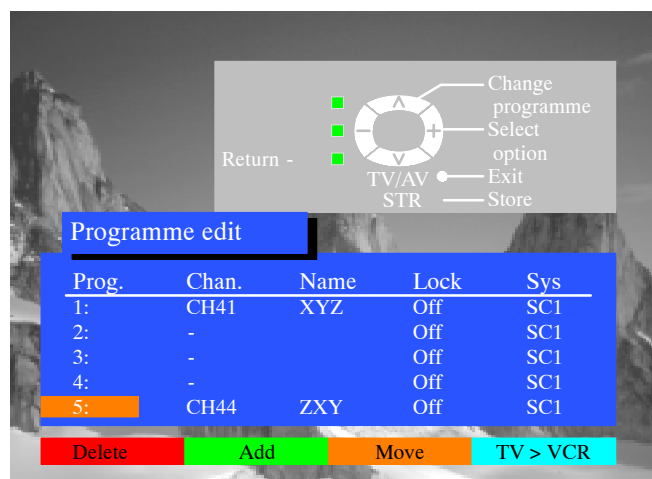
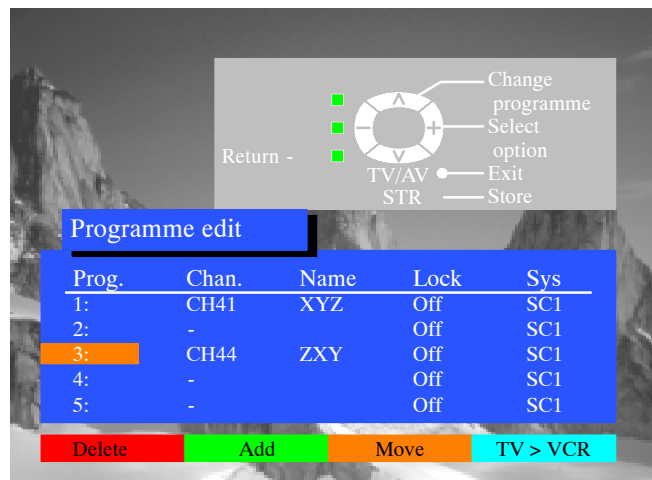
Choose new position



Press the Yellow button again to confirm



If you have finished in the Programme edit menu, press the TV/AV button to exit



# TUNING MENU - PROGRAMME EDIT

## To tune a programme position

Choose the programme position



Move to the channel column



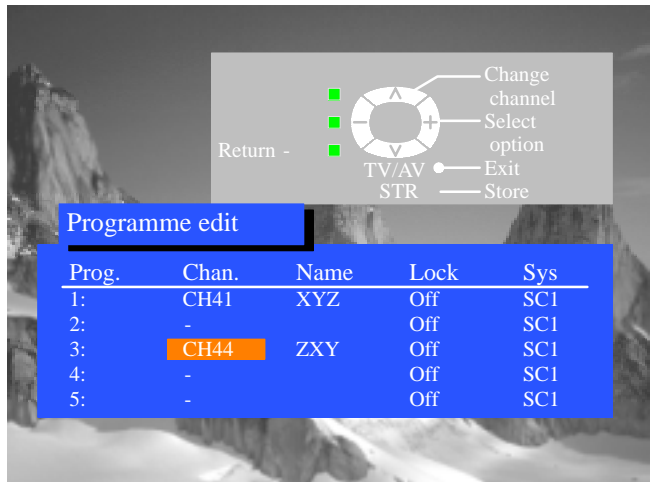
Increase or decrease channel number or use the 'C' key for Direct Channel Access (see page 7)



Press STR to store



If you have finished in the Programme edit menu, press the TV/AV button to exit



## To rename a programme position

Choose the programme position



Move to the Name column



Choose the new character



Move to the next character position

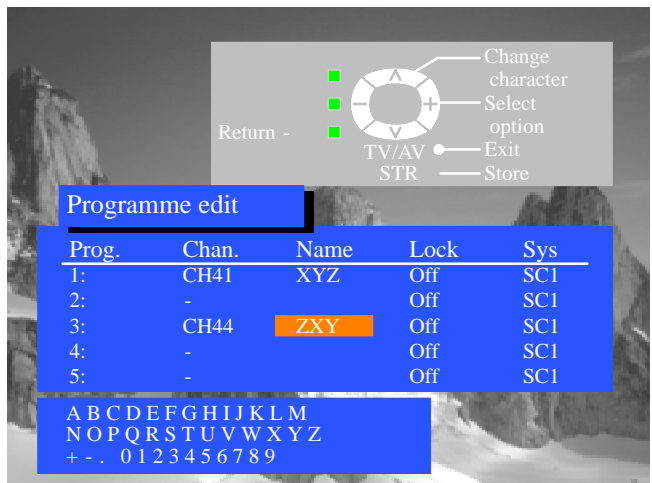


Continue until renaming is done

Press STR to store



If you have finished in the Programme edit menu, press the TV/AV button to exit



# TUNING MENU - PROGRAMME EDIT

## To lock a programme position to prevent access

Choose the programme position



Move to the lock column



Choose between lock On or lock Off



Press STR to store

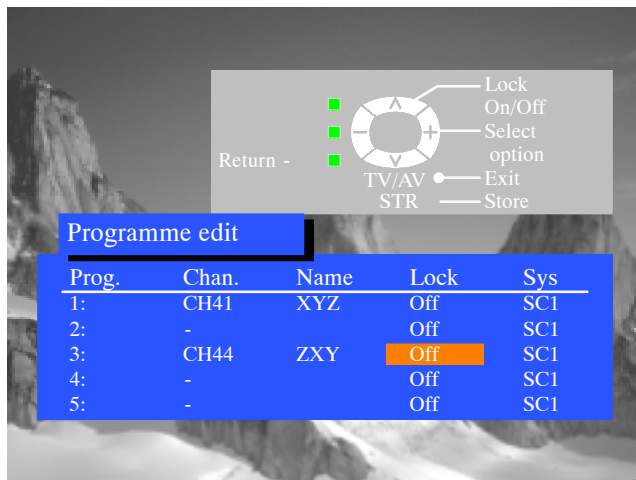


If you have finished in the Programme edit menu, press the TV/AV button to exit



**Note :**

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



## To change the TV - system for a programme position

Choose the programme position



Move to the Sys column



Choose the required sound system:

SC1 : PAL B, G, H / SECAM B, G

SC2 : PAL I

SC3 : PAL D, K / SECAM D, K

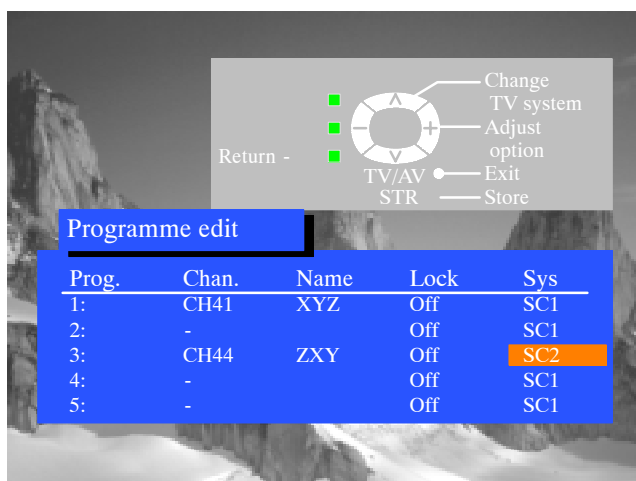
F : SECAM L/L'



Press STR to store



If you have finished in the Programme edit menu, press the TV/AV button to exit



## To copy programme information to a compatible VCR connected to AV2

Move to the Prog. column

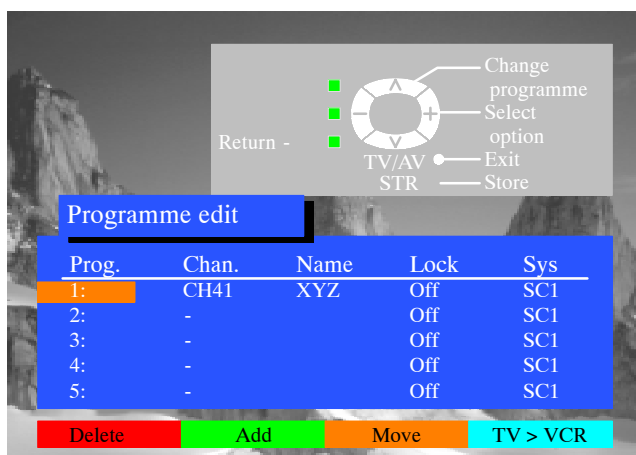


Press the Blue button on the remote control.

Programme data will now be sent to the VCR. This might take a few seconds, depending on the number of stations stored.



If you have finished in the Programme edit menu, press the TV/AV button to exit



# 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 Setup menu



Move to Tuning menu



Access Tuning menu



Move to Auto setup



Access Auto setup



Access Start Auto setup



Select your country

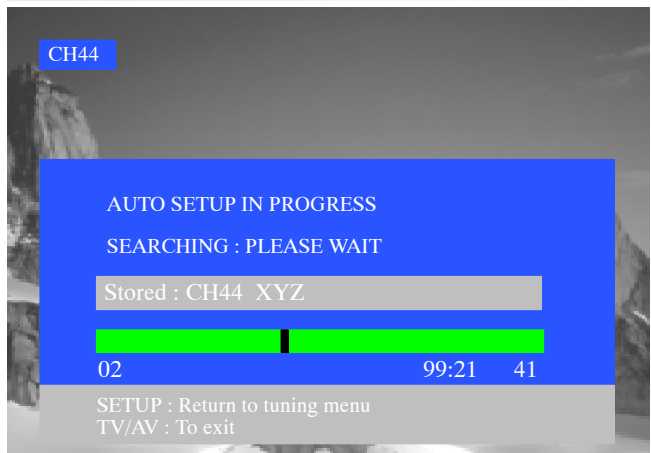
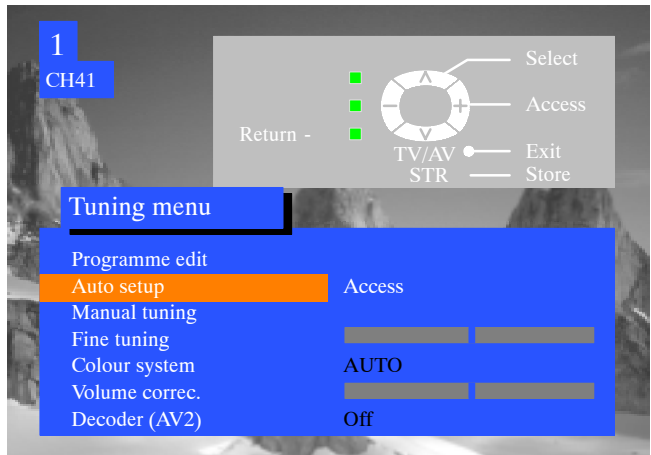


Access Start Auto setup



The TV will search for, locate and sort into order your local stations. If a compatible VCR is connected via the AV2 socket, programme data will be sent to the VCR via Q - Link (see page 24).

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



# 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 Setup menu



Move to Tuning menu



Access Tuning menu



Move to Manual tuning



Access Manual tuning



Select the programme position to be tuned



Press repeatedly until required station is found

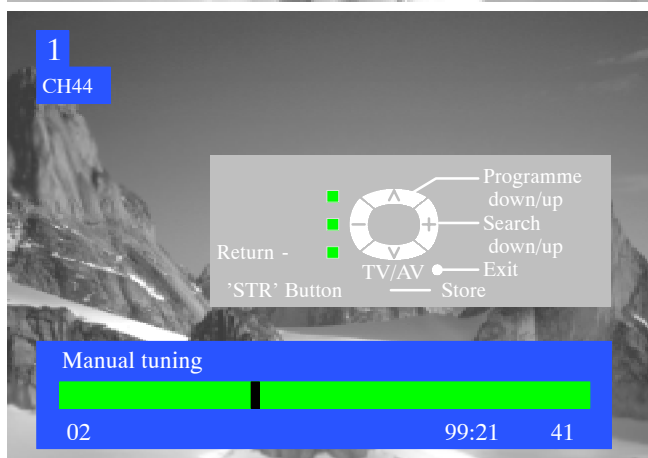
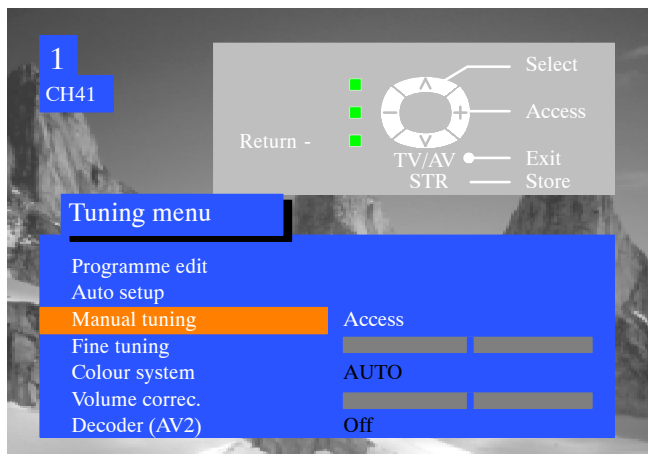


When the desired station is found, press STR to store.



The programme position will flash

Press the TV/AV button to exit.

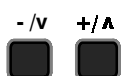


## Manual tuning (Front panel)

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



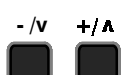
Press the - or + button to access Tuning mode



Press the TV/AV button to move between "Change programme", "Search" and "Change TV system"



Press the - or + button to change the programme position, start searching or Change TV system

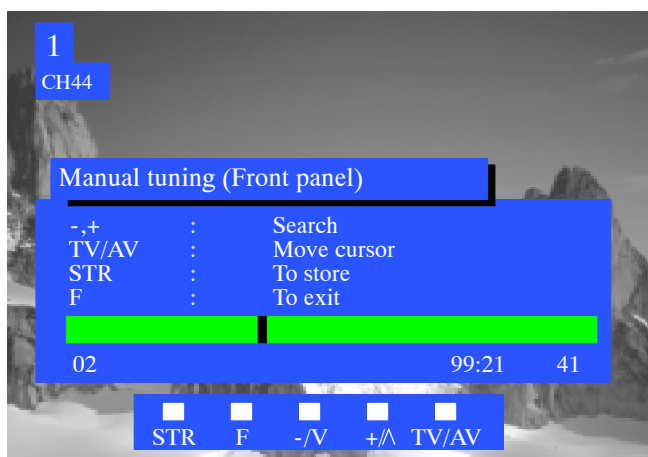


When the desired station is found, press STR to store.



The programme position will flash

Repeat above procedure to tune additional programmes or press the F button to exit



# OSD LANGUAGE

When you first installed the TV the On Screen Display language was set according to your choice of country. If you wish to use a different language then it can be chosen from the OSD language menu

Open the Setup menu



Move to the OSD language menu



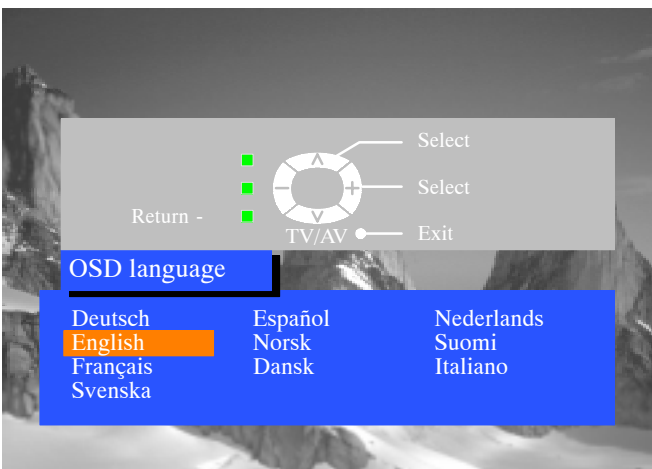
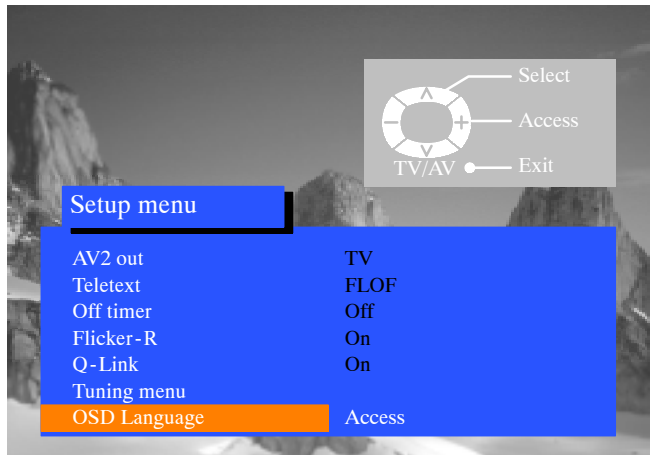
Access the OSD language menu



Move to your choice



Press the TV/AV button to select and exit



# AV SELECT AND SETUP

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

Press the TV/AV button

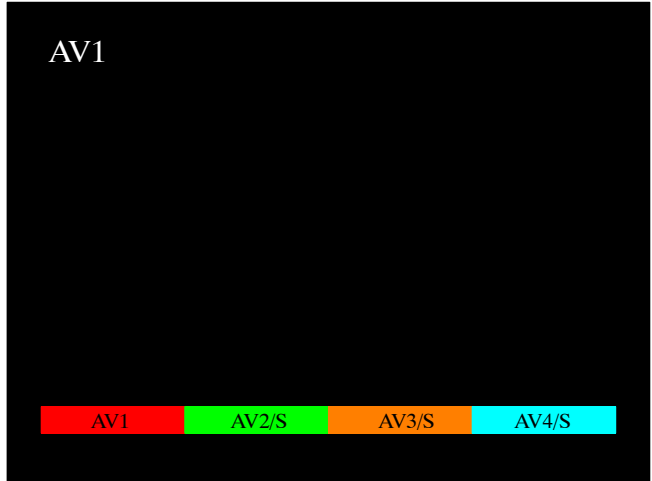


Press the appropriate coloured remote control button (whilst the options remain on screen)



The options will disappear

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



## Setup menu

Open the Setup menu



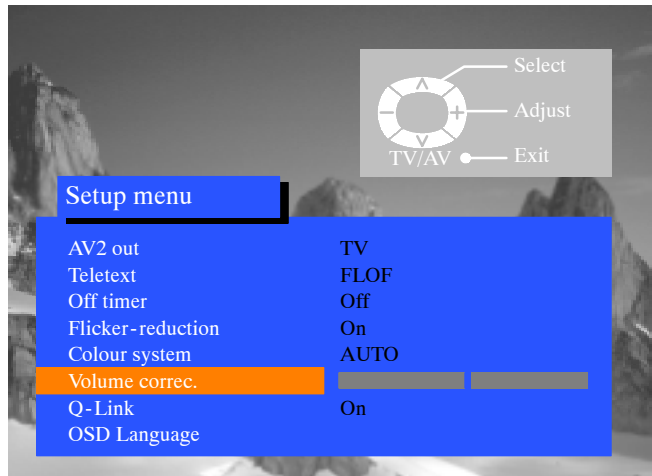
Move to your choice



Access adjustments or options



Press the TV/AV button to exit



## Sound menu

Open the Sound menu



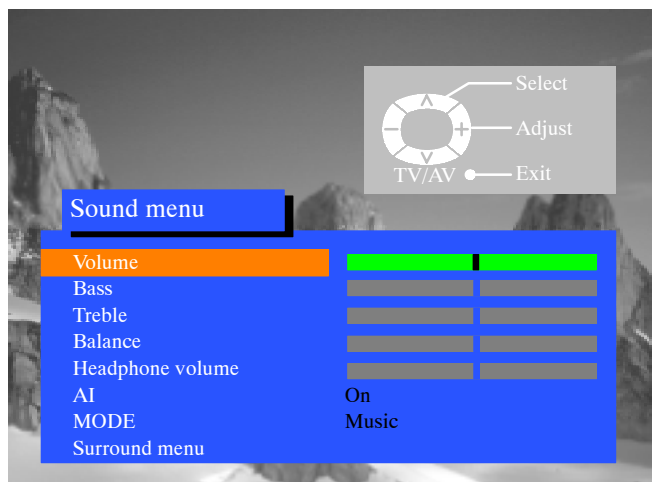
Move to your choice



Access adjustments or options



Press the TV/AV button to exit

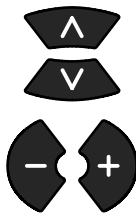


## Q - Link allows the television to communicate with your VCR

Open the Setup menu



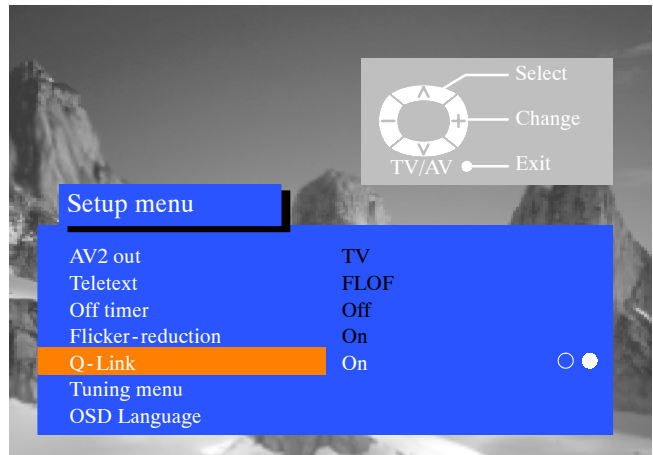
Move to Q - Link



Confirm Q - Link is set to "On"



Press the TV/AV button to exit



The VCR must be connected with a SCART lead (full function type) attached between the AV2 socket of the television and the appropriate socket on your VCR. See the VCR handbook for further information. Q - Link, NEXTVIEWLINK or similar technology allows the television to instruct a **compatible VCR** to record the programme that is currently being displayed on screen, regardless of the programme position set on the VCR, thus simplifying the process of recording programmes.

### To record the programme you are currently watching



Press the DIRECT TV REC button on the remote control

If the VCR is off, it will automatically switch on when you press the DIRECT TV REC button.

A message, sent from the VCR, will appear on screen showing what is being recorded, or if it is not possible to record:

VCR recording preset prog

VCR recording own tuner

VCR is recording the programme signal from its own tuner. If you wish you can switch off the TV and leave the VCR recording in the normal way.

VCR recording TV source

VCR is recording the programme signal from the television. You must not change programme position or switch off the TV: if you do, the VCR will automatically stop recording and switch off.

No recording TAPE IS PROTECTED

The write protection tab on the back of the cassette has been removed.

Examples of other messages that might be displayed are:

No recording NO TAPE

No recording VCR IS PLAYING

VCR Recording VCR external

No recording VCR ALREADY RECORDING

No recording TAPE MAY BE DAMAGED

No recording NO SOURCE AVAILABLE

### To share tuning information

To ensure correct recordings are made, the television and VCR should share tuning information - see page 20.

- Whenever the Auto setup (ATP) function is used, tuning data will be downloaded to the VCR.

### Auto Power functions

With Panasonic Q - Link VCRs these additional features are available:

- If you insert a tape in your VCR and press the Play button, the television will automatically switch on and select the AV2 input so you can view the tape.
- If you switch off the television whilst the VCR is in Stop, Fast Forward or Rewind modes, the VCR will switch off automatically.

### To turn off Q - Link communication

If you do not wish to use the Q - Link feature, go to the Setup menu and set the Q - Link option to "Off". See page 14.

#### Important Note:

Not all VCRs support this type of data communication system. Some may support certain features, but not others. See the VCR handbook for further information.

If Q - Link is inoperative, first confirm that your SCART lead is a full function type. Ask your dealer for further details.



# SURROUND MENU

Normally stereo reproduction uses left and right speakers, but **Dolby Pro Logic Surround** also uses a centre channel and a rear channel. The centre channel sharpens sound perspective and dialogue clarity whilst the rear channel is used to immerse the viewer in ambience and special effects.

To use **Dolby Pro Logic Surround** when receiving television programmes that have been encoded with **Dolby Surround** information, you must be able to receive Stereo transmissions. If Stereo transmissions are not transmitted in your area then the **Dolby Surround** information will not be present and Pro Logic decoding will produce a centre channel only output (unless you are playing back from a stereo VCR, Digital Versatile Disc etc.).

**Dolby Pro Logic Surround** operates best with videos, laserdiscs and TV programmes that bear the **Dolby Surround** logo, but can also be used to good effect with stereo sources not encoded in Dolby Surround and mono sources, affording compatibility with any source.

Ensure that the "Surround" feature is switched On



Open the Sound menu



Move to Surround menu



Access Surround menu



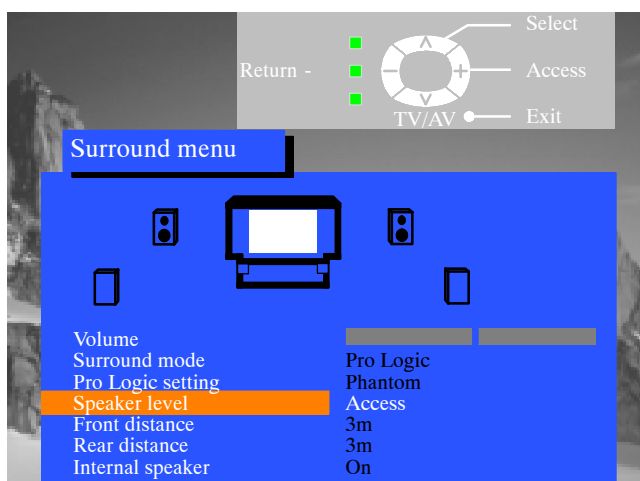
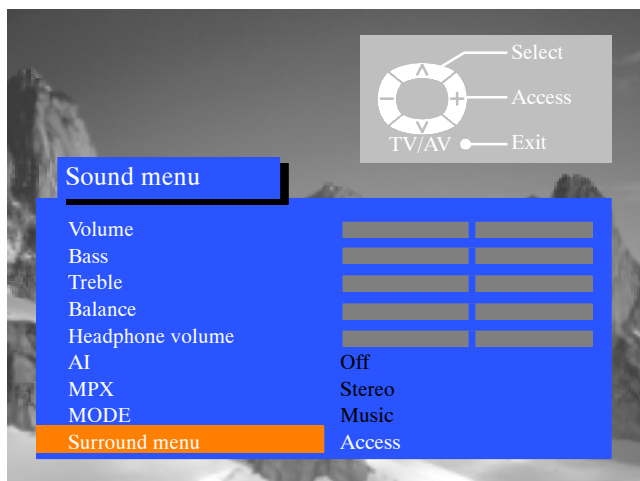
Move to your choice



Increase or decrease levels, set options or access further menus



Press the TV/AV button to exit



## Volume

The volume adjustment sets the overall Surround output volume.

## Surround mode



Choosing Pro Logic allows selection of Normal, Phantom or 3 Stereo modes, as described on page 26.

## Surround setting



Choosing Simulated allows selection of Disco, Movie or Stadium modes, as described on page 27.

## Speaker level

Allows adjustment of the output levels for each channel, as described on page 27.

## Front distance



Allows setting of the distance from the listening position to the front speakers.

## Rear distance



Allows setting of the distance from the listening position to the rear speakers. If the rear surround speakers are closer to you than the centre speaker, you may hear dialogue "leakage" from the rear surround speakers. It may be necessary to reduce the output level of the rear channel to rectify this phenomenon.

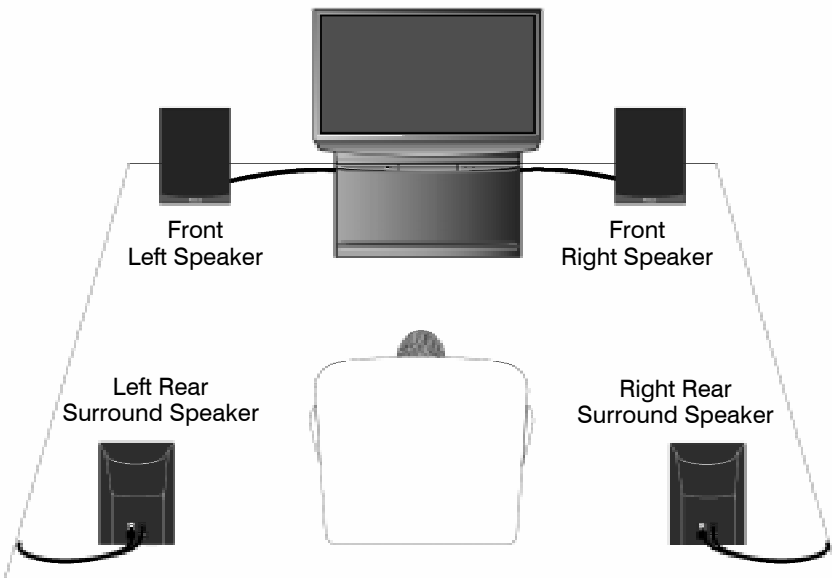
## Internal speaker



Normally set to **On**, but, when separate external amplified front speakers are connected, then the internal speakers can be switched **Off**. See page 33 for connection details.

Choosing Surround Pro Logic mode allows three possible modes of operation : **Normal, Phantom** or **3 Stereo**.

## Dolby Pro Logic Normal Centre mode



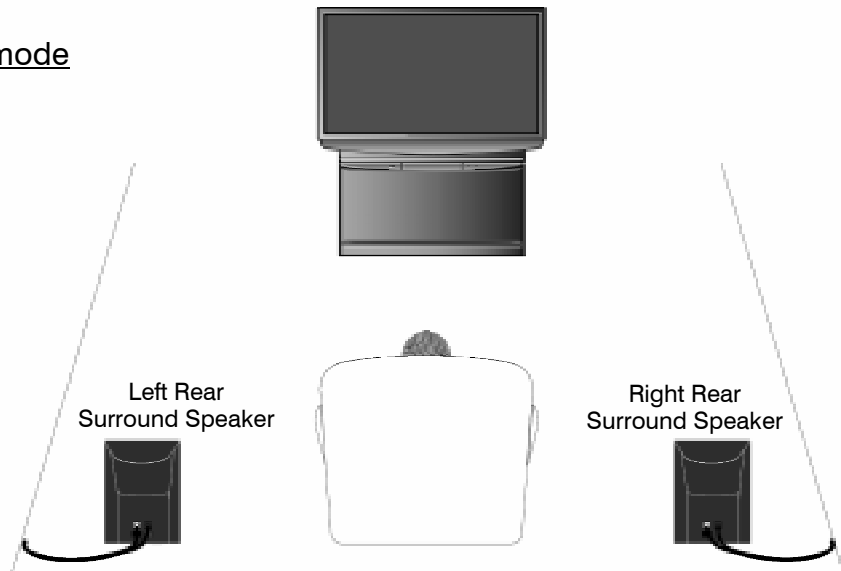
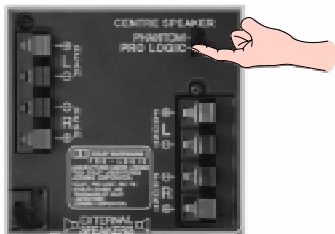
**NOTE**

Pressing the Surround switch will switch the surround mode into 2 channel stereo only (and vice - versa).

When the Surround function is switched to the Off position, it will allow a Balance control as an extra option in the sound menu.

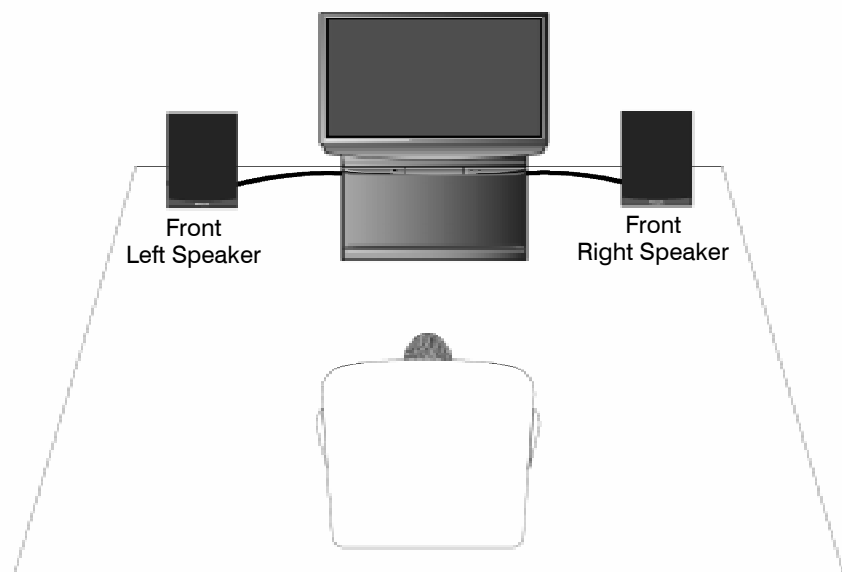
## Dolby Pro Logic Phantom Centre mode

If front left and right speakers are not connected, use Phantom mode. Left, right, and centre information will now be produced by the TV speakers. Ensure that the Normal/Phantom switch on the rear of the TV is set to the Phantom position.



## Dolby Pro Logic 3 Stereo mode

This is the best mode to use if rear speakers are not connected. When using this mode, the surround information is redirected to the front left and right speakers.



## SIMULATED MODE

Simulated surround modes allow various types of surround effects to be produced by mimicking both the direct sound, as heard by the audience, and the sound reflected back from the surrounding walls e.g. ceiling and floor space in a space such as a Disco. There are three different effects to choose from, each reflecting a different atmosphere.

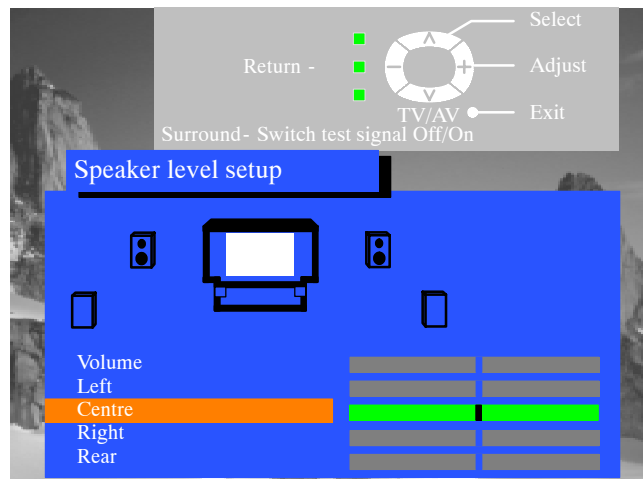
Setting	Effect	Appropriate sources
Disco	A room so full of music that it seems to engulf the listener.	Disco, Dance or Jazz music.
Movie	Playback of software (films) not encoded with Dolby Surround.	All movies or music software recorded without Dolby Surround.
Stadium	A large sports stadium packed for a live game.	Any live sports occasion.

## SPEAKER LEVEL SETUP

The speaker output levels from the different options, e.g. Left, Centre, Right and Rear should be adjusted, from your usual listening position, to obtain the best results. The level can be set using either the TV sound or the provided test signal.

When using external stereo equipment, it is advisable to set the speaker levels to the midpoint position.

Speaker level setup shown in Pro Logic Normal mode, the adjustments available will vary according to the current mode chosen.












The adjustments available will vary according to the mode chosen.

## VCR / DVD OPERATION

The Remote Control is capable of operating some functions of selected Panasonic VCRs and DVD (Digital Versatile Disc) equipment. Some VCR and DVD equipment have different functions, so to ensure compatibility please refer to the equipment's instruction book or consult your dealer for details.



	<p><b>Standby</b> Press to switch the VCR or DVD to standby mode. Press again to switch back on.</p>
	<p><b>VCR / DVD switch</b> Use this switch to select whether controls operate DVD equipment or your VCR.</p>
	<p><b>Play</b> Press to playback the tape or DVD.</p>
	<p><b>Stop</b> Press to stop the tape or DVD.</p>
	<p><b>Skip / Fast Forward / Cue</b> VCR: Press to fast forward the tape. In Play mode, press to view the picture rapidly forward (Cue). DVD: Press once to skip to the next track. In play mode press and hold to view the picture rapidly forward.</p>
	<p><b>Skip / Rewind / Review</b> VCR: Press to rewind the tape. In Play mode, press to view the picture rapidly in reverse (Review). DVD: Press once to skip to the previous track. In play mode press and hold to view the picture rapidly in reverse.</p>
	<p><b>Pause / Still</b> Press in playback mode, the picture will pause. Press again to restart play.</p>
	<p><b>Programme Up / Down</b> Press to increase or decrease the VCR programme position by one.</p>
	<p><b>Record</b> Press this button to start recording.</p>

# TELETEXT OPERATION

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- Pressing the Picture button whilst in Teletext mode will display the brightness function with a white bar. Press ◀ ▶ to alter the setting as required.  
Pressing the Setup button whilst in Teletext operation will display special function options at the bottom of the screen.
- 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 FLOF?

In FLOF 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 on the subjects shown.

TV/TEXT



### TV / Teletext mode

Press the **TV/TEXT** button.  
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 :

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

SET UP



### Full / Top / Bottom

Press the **SET UP** button to display special functions, followed by the **Green** button.  
Press the **Green** button again to expand the BOTTOM half.  
Press again to return to normal (FULL) size.

SET UP



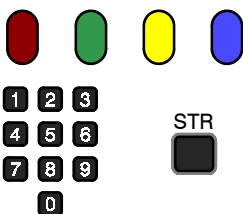
### Reveal

Press the **SET UP** button to display special functions, followed by the **Red** button to reveal hidden words e.g. quiz page answers. Press again to hide.



### Red / Green / Yellow / Blue buttons

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



### List Store

In LIST mode the four page numbers can be altered (programme positions 1 - 25 only).  
To do this, press one of the four coloured buttons and enter the new page number.  
Press and hold **STR**, the page numbers will change to white indicating that the page is stored.

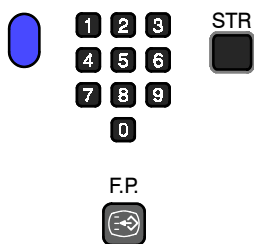
HOLD



### Hold

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

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access 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** button, select the page number, then press and hold the **STR** button. The page number is now stored.

Press **F.P.** to recall this page.

## Update Display

Press the **SET UP** button to display special functions, followed by the **Yellow** button 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 the **Yellow** button to view the page. Press **TV / TEXT** again to return to normal TV operation.



### News Flash

When a news flash page has been selected, press **SET UP, Yellow**, to view the TV picture. When an update is received, the page number will be displayed on screen. Press the **Yellow** button to display the News Flash. Press **TV / TEXT** to return to normal TV. operation.

### Update

Press **SET UP, Yellow** 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 the **Yellow** button to view the page. Press **TV / TEXT** to return to normal TV. operation.

## 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 buttons 0 - 9.

Press the **SET UP** button followed by the **Blue** button; T\*\*\*\* will be displayed at the top right of the screen.

Enter desired sub page number before the T\*\*\*\* 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 the **Yellow** button to view a normal TV programme. (Press **SET UP, Yellow** in LIST mode).

When the page is available, press the **Yellow** button to view the page. To clear the page perform one of the following :

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

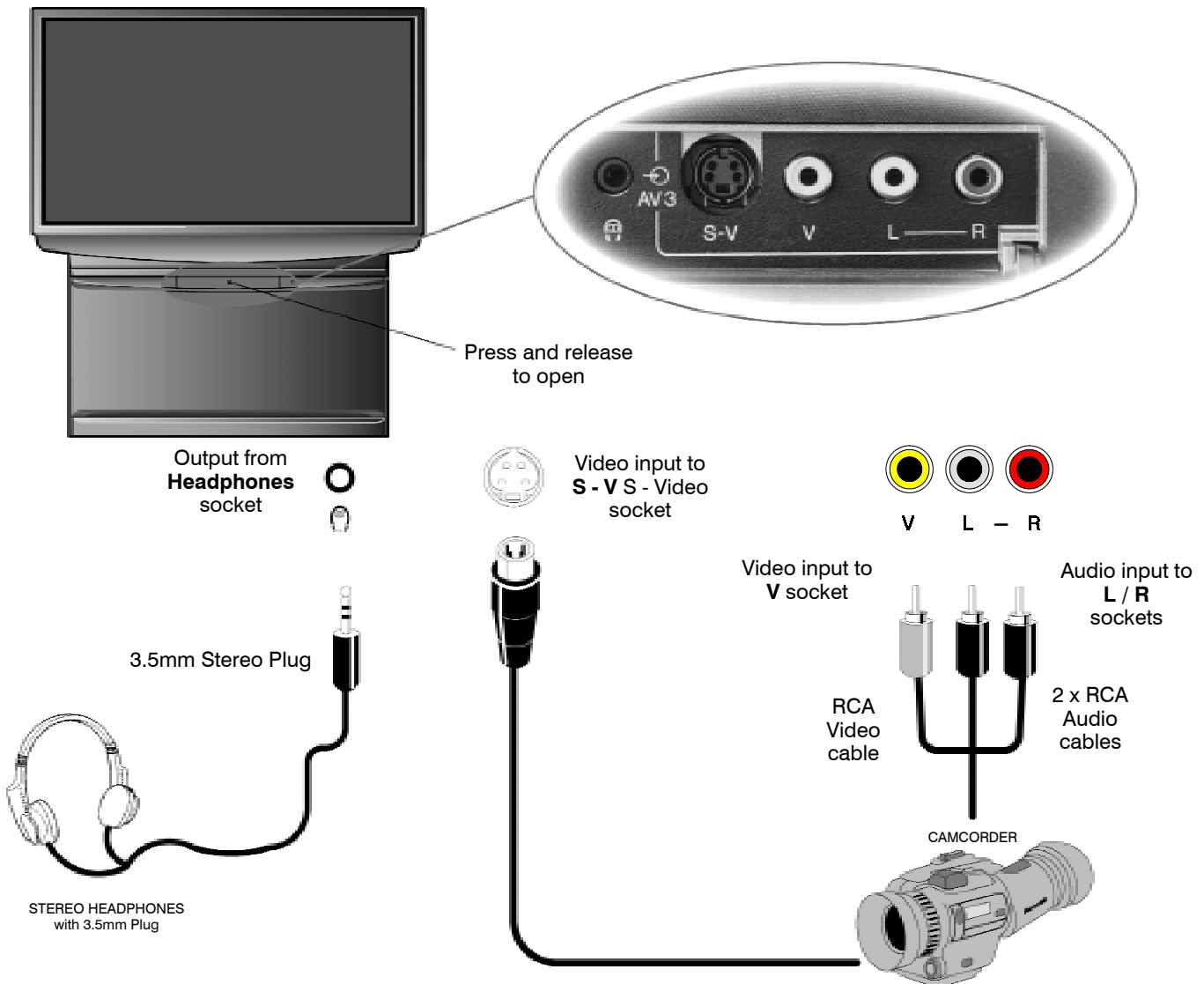


## Index

### When in FLOF 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.

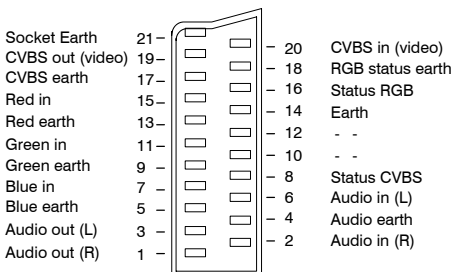
## Front AV3 4 pin S - Video, RCA Audio / Video and Headphone Sockets



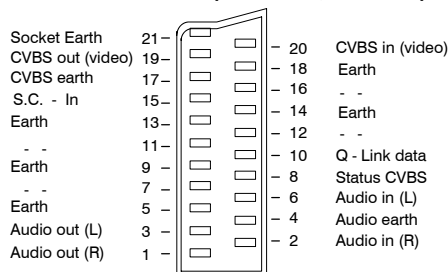
**Note :**  
Additional equipment and cables shown are not supplied with this TV set.

### ■ Scart and S - video socket information

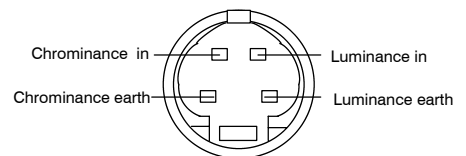
#### AV1 and AV4 Scart sockets



#### AV2 Scart socket (S - Video, Q - Link)



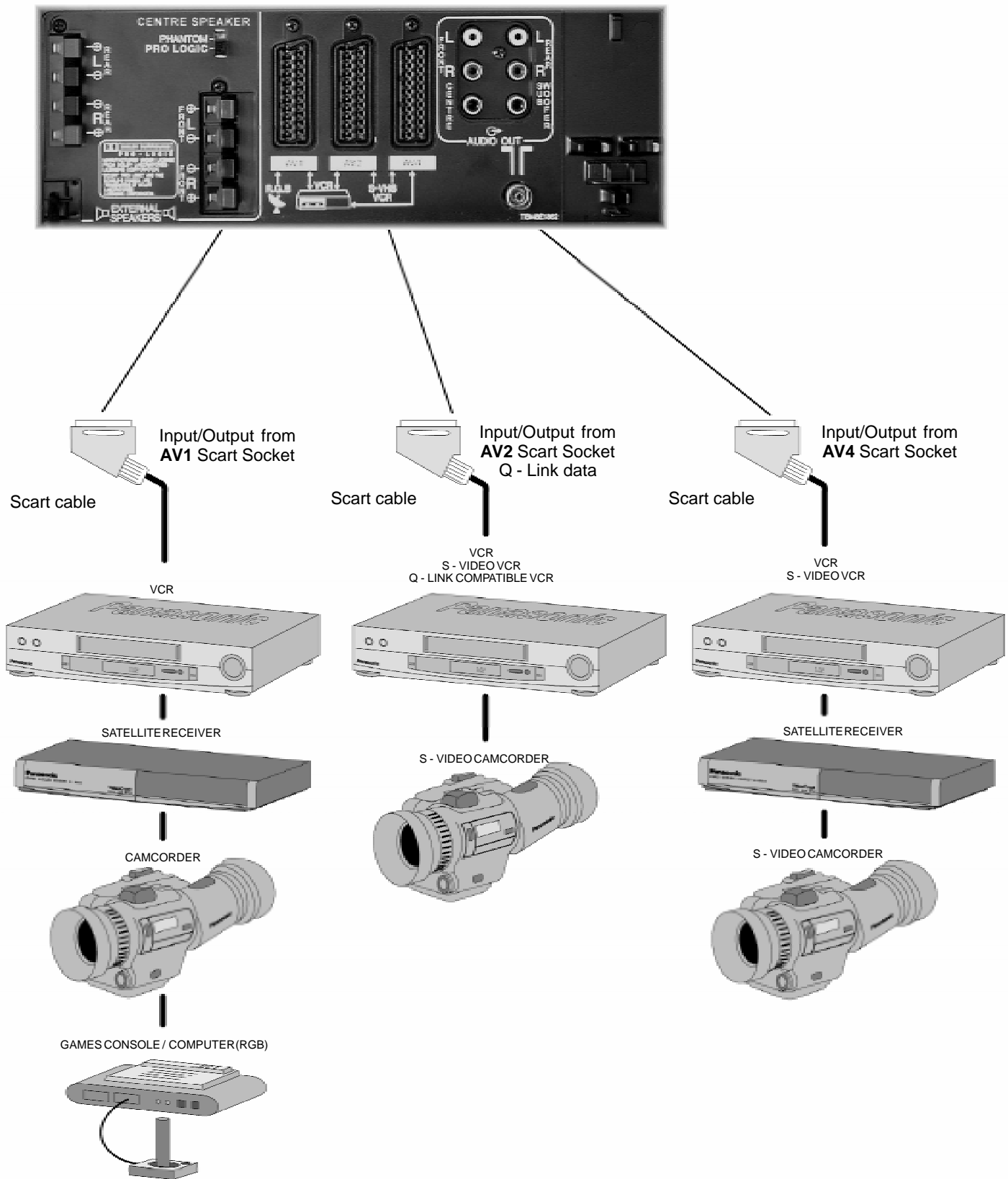
#### S - Video 4 pin socket



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.

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



**Notes:**

Additional 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; see page 14 for details.

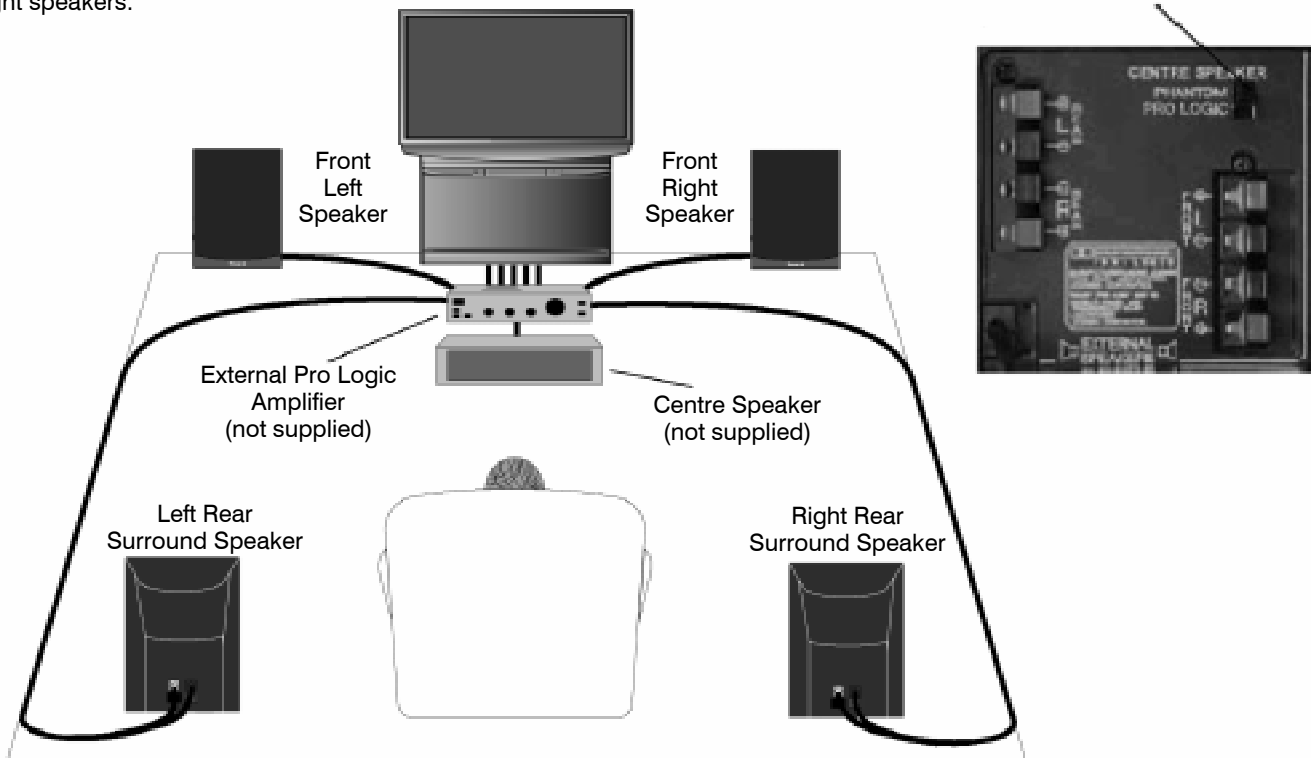


## Audio out using external amplifiers and speakers

The **Audio Out** sockets on the rear of the TV allow you to create your own custom sound output system using additional external amplifiers and speakers. You may decide, for example, to use an external Pro Logic amplifier for the front speakers, rear surround speakers and centre speaker.

### Centre Speaker switch:

When using external left and right front speakers, set this switch to the "Normal" position. Centre channel information will be reproduced by the TV's left and right speakers. If your installation does not include external left and right front speakers, set the switch to the "Phantom" position; left, right and centre speaker information will now be reproduced by the TV's left and right speakers.

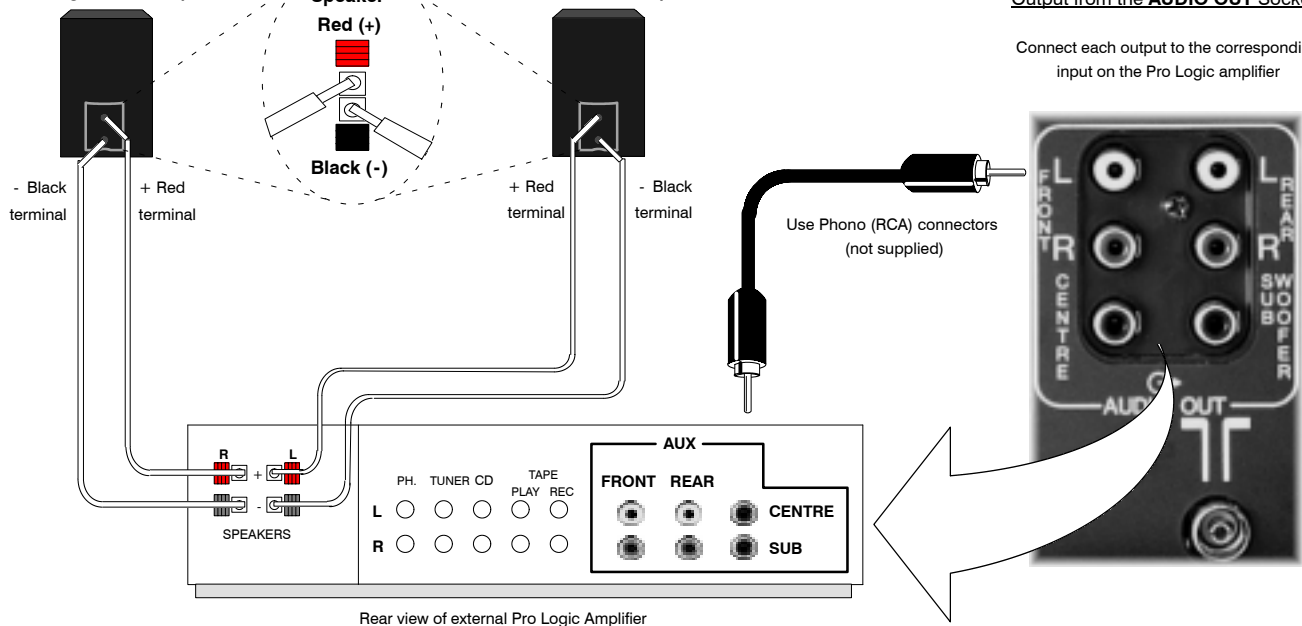


Existing hi-fi speaker used as front right surround speaker

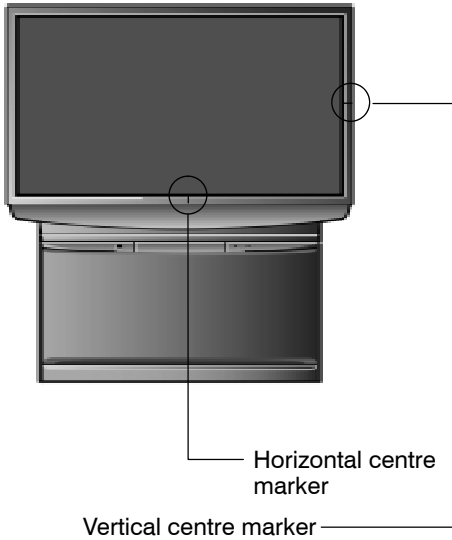
Existing hi-fi speaker used as front left surround speaker

### Output from the AUDIO OUT Sockets

Connect each output to the corresponding input on the Pro Logic amplifier

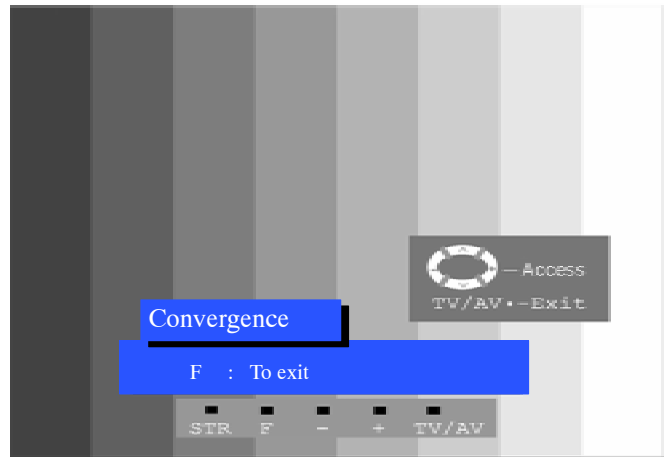


# CONVERGENCE ADJUSTMENT

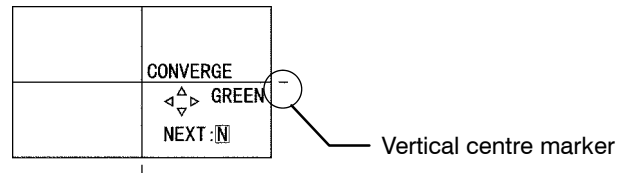


Prior to Adjustment, tune the broadcast signal or input a Video signal and operate the set for more than 60 minutes.  
 If the set location or direction is changed or moved, the set may be affected by terrestrial magnetic fields, causing the colours displayed to be out of alignment.  
 If it is needed, carry out the following procedure and following have to be carried out once with PAL signal and with NTSC signal.

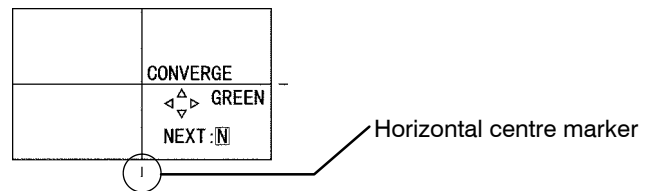
Press the F button (Front panel) until "Convergence mode" is reached.  
 Access Convergence menu.



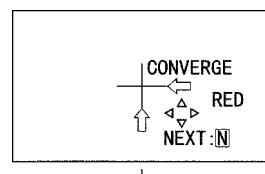
Use the Position Up, Down buttons of the remote control to align the Horizontal Green line and Vertical centre marker.



Use the position Right, Left buttons of the remote control to align the vertical Green line and Horizontal centre marker.

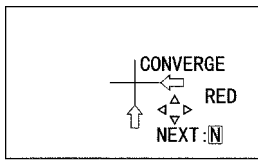
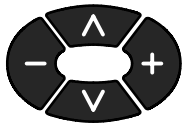


Push the "N" button of the remote control to set the Red Adjustment mode. (store Green)

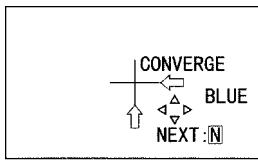


# CONVERGENCE ADJUSTMENT

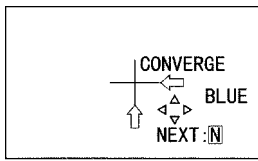
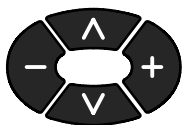
Use the Position Up, Down, Right and Left buttons of the remote control to align the Red and Green lines. (become Yellow line)



Push the "N" button of the remote control to set the Blue adjustment mode. (store Red)



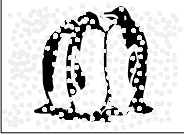
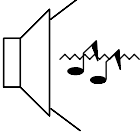

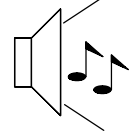
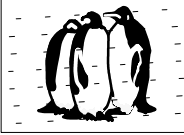
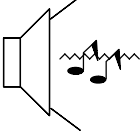
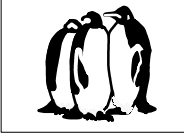
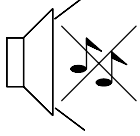

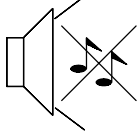
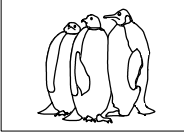
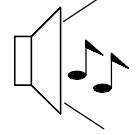

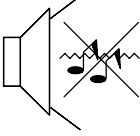
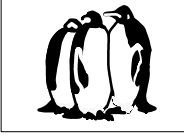
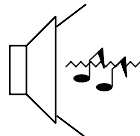
Use the Position Up, Down Right and Left buttons of the remote control to align the Blue and Yellow lines. (become White line)



Push the "N" button of the remote control to return to the original screen. (store Blue)



If you wish to view a video with a different colour system (PAL, SECAM, NTSC), repeat steps written above while the picture is being displayed.

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)
 Normal Picture	 Weak or distorted sound	Sound reception may have deteriorated. Switch MPX setting (Sound menu) to Off until reception improves.



**Customer's Record**

The model number and serial number of this product can be found on its rear cover. You should note this serial number in the space provided below and retain this book plus your purchase receipt as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

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