

TX-28/25LD4DP Operating Instruction

English

←
BACK

EXIT

Panasonic



TX-28LD4DP TX-25LD4DP

Colour Television

(U.K. Standard)



DIGITAL
8-BIT
Technology



Quintrix



Operating Instructions

Dolby, Pro Logic and the  are trademarks of Dolby Laboratories.

Manufactured under license from Dolby Laboratories Licensing Corporation

WELCOME

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.

CONTENTS



| | | | |
|---|-----------|--|-----------|
| Warnings and Precautions | 3 | Q-Link | 26 |
| Accessories | 4 | Dolby Pro Logic Surround Menu | 28 |
| Inserting the Remote Control Batteries | 4 | Pro Logic mode | 29 |
| Basic Controls | 5 | Simulated mode | 30 |
| Quick Start Guide | 6 | Speaker level setup | 30 |
| Using the On Screen Displays | 12 | VCR and Satellite Receiver Installation | 31 |
| Picture Menu | 13 | VCR/DVD Operation | 32 |
| Sound Menu | 14 | Teletext Operation | 33 |
| Setup Menu | 15 | Audio / Video (AV) Connections | 35 |
| Tuning Menu - overview | 16 | Via the front AV3 Audio / Video (RCA) and Headphone Sockets | 35 |
| Tuning Menu - Programme edit | 17 | Scart and S-Video Terminal Information | 35 |
| Tuning Menu - Auto setup | 21 | Via the rear AV1 / AV2 21 Pin (Scart) and RCA Audio Out terminals | 36 |
| Tuning Menu - Manual tuning | 22 | Using external amplifiers and speakers | 37 |
| Tuning Menu - Shipping condition | 23 | Trouble-shooting | 38 |
| Tuning Menu - Owner I.D. | 24 | For your guidance | 39 |
| AV Select and Setup | 25 | Specifications | 39 |

WARNINGS AND PRECAUTIONS

- This TV set is designed to operate on 220 - 240V, 50Hz A.C.
- 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.
- **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 television receiver 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.

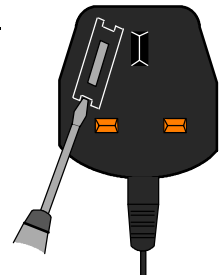
How to replace the fuse (for plug type shown in example 1) :

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

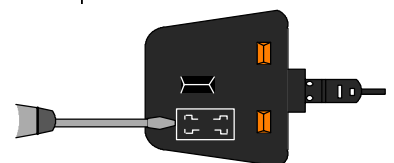
How to replace the fuse (for plug type shown in example 2) :

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. 

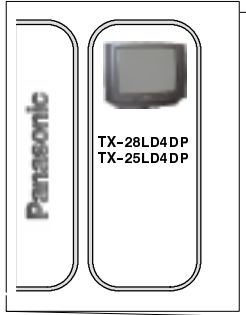
ACCESSORIES

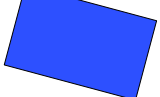
Check that you have the accessories and items shown 


Operating Instruction book
TQB8E2470

Remote Control Transmitter
EUR511200

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



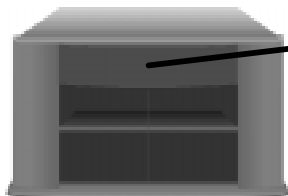
 CRT Guarantee

 TV Guarantee

 Questionnaire

TS-600DP (Video cabinet / Speaker pack), comprising :

VS-LD4DP Video cabinet



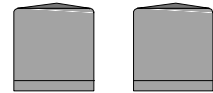
Centre speaker and 3D Subwoofer
- (Built in)

Important Note :
Centre speaker uses Grey cable
3D Subwoofer uses Black cable

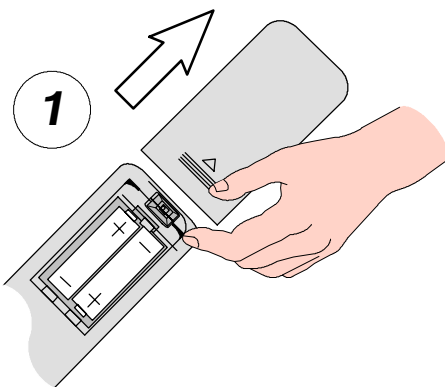
Speaker cables
(12 metres each)



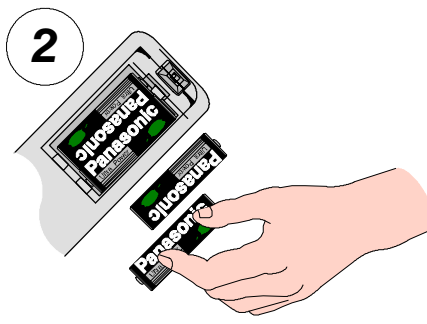
Rear surround speakers (x2)



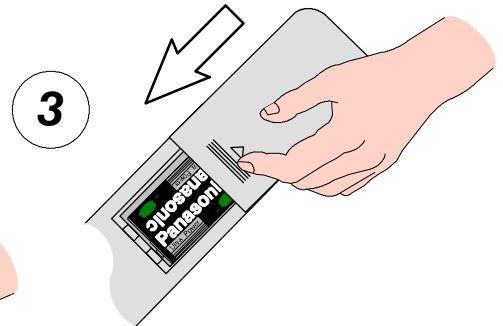
INSERTING THE REMOTE CONTROL BATTERIES



Slide off the battery cover



Insert batteries - note correct polarity
(+ and -)



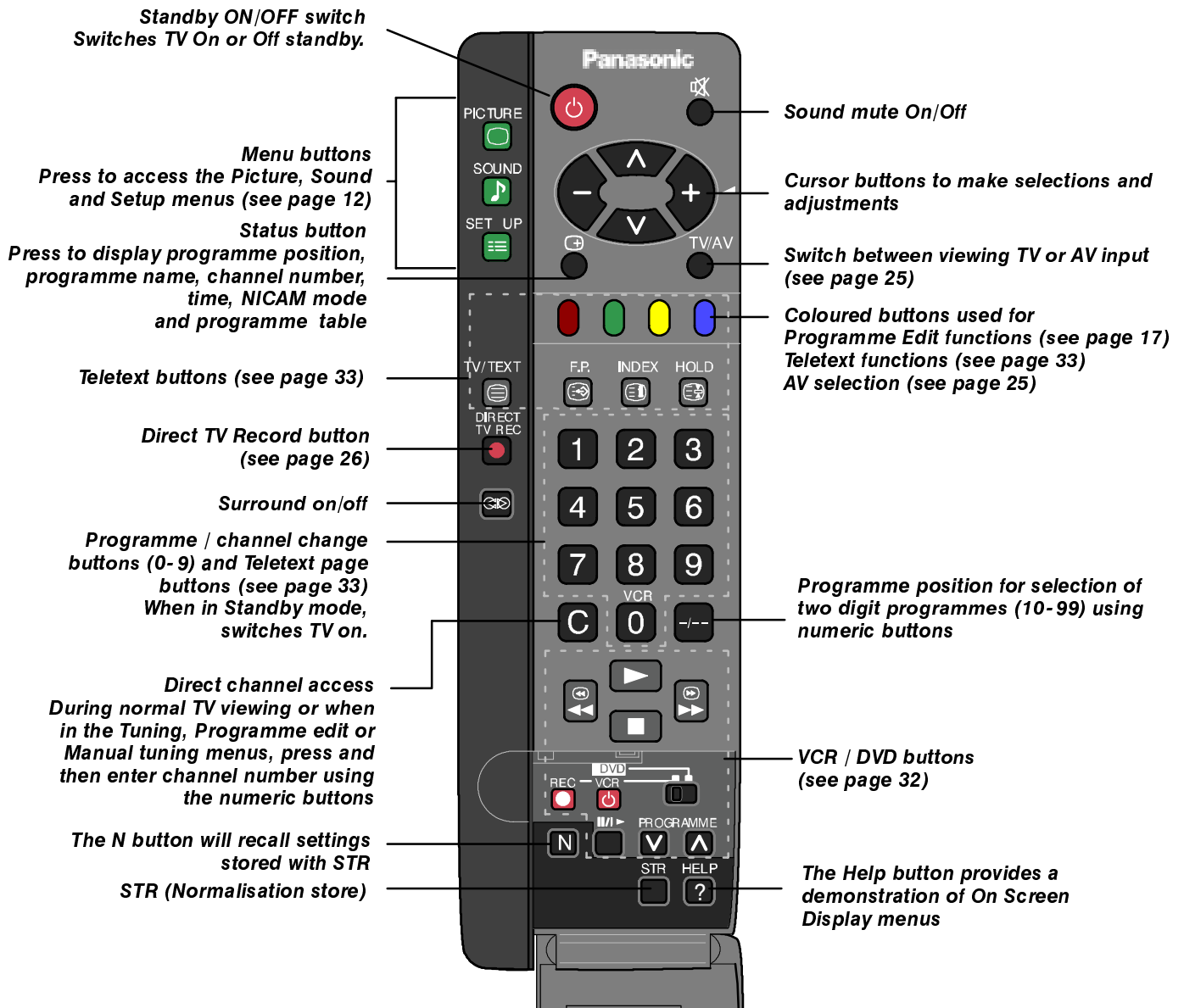
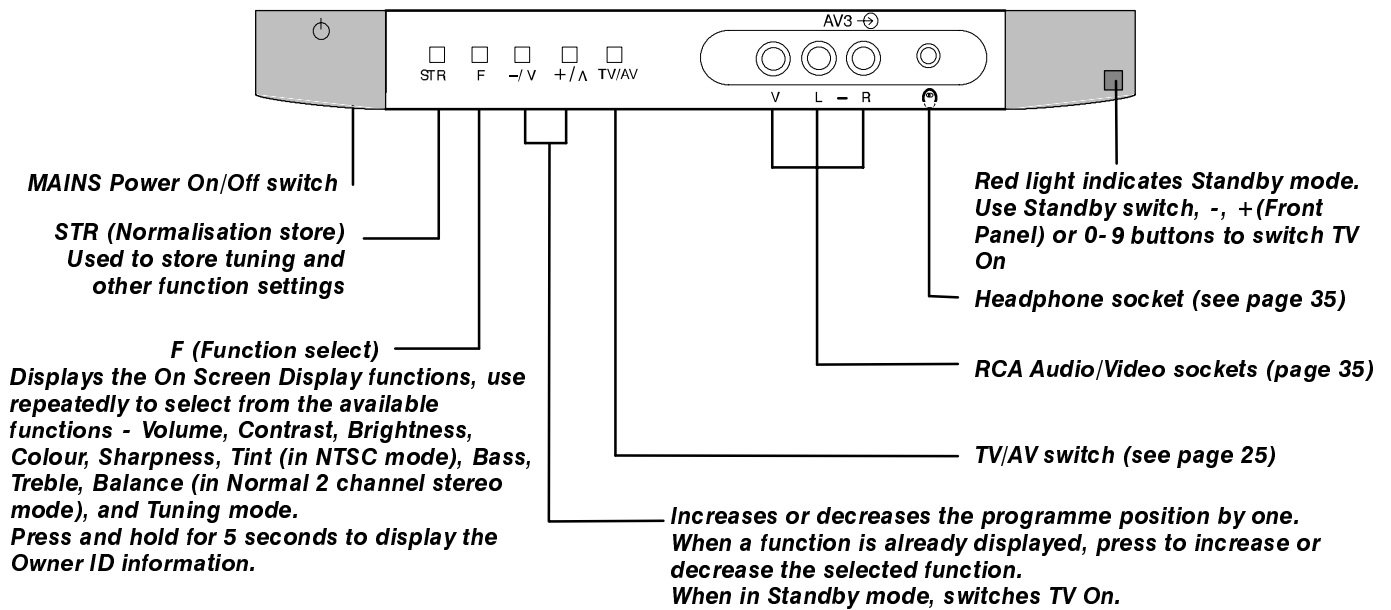
Replace the cover

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

Press here and open flap to expose TV controls, front AV3 and headphone terminals



QUICK START GUIDE


Connection and setting up options

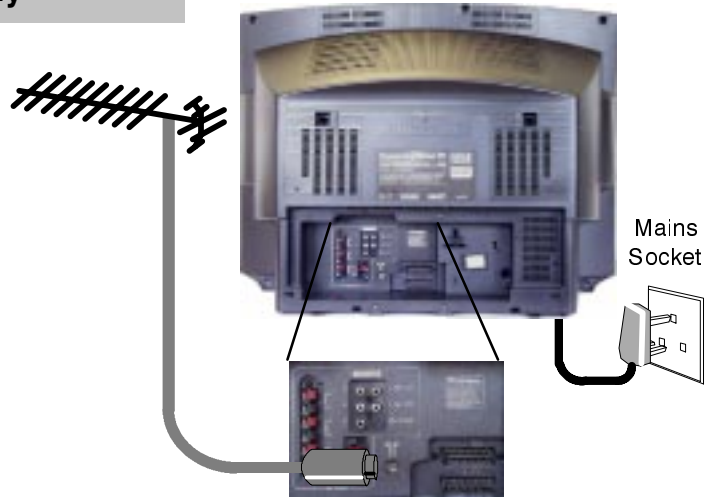
1. If connecting the TV using an RF cable only, proceed to option 1.
2. If connecting the TV using Scart and RF cables, proceed to option 2.
3. If connecting the TV to a Q-Link (or Q-Link compatible) VCR, proceed to option 3 on page 7.

What is Q-Link ?


Q-Link allows direct communication between the TV and a Q-Link (or Q-Link compatible) VCR, this will enable features such as downloading of tuning information from the TV to the VCR.

1. Connection of TV using an RF cable only

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



2. Connection of TV and VCR using Scart and RF cables

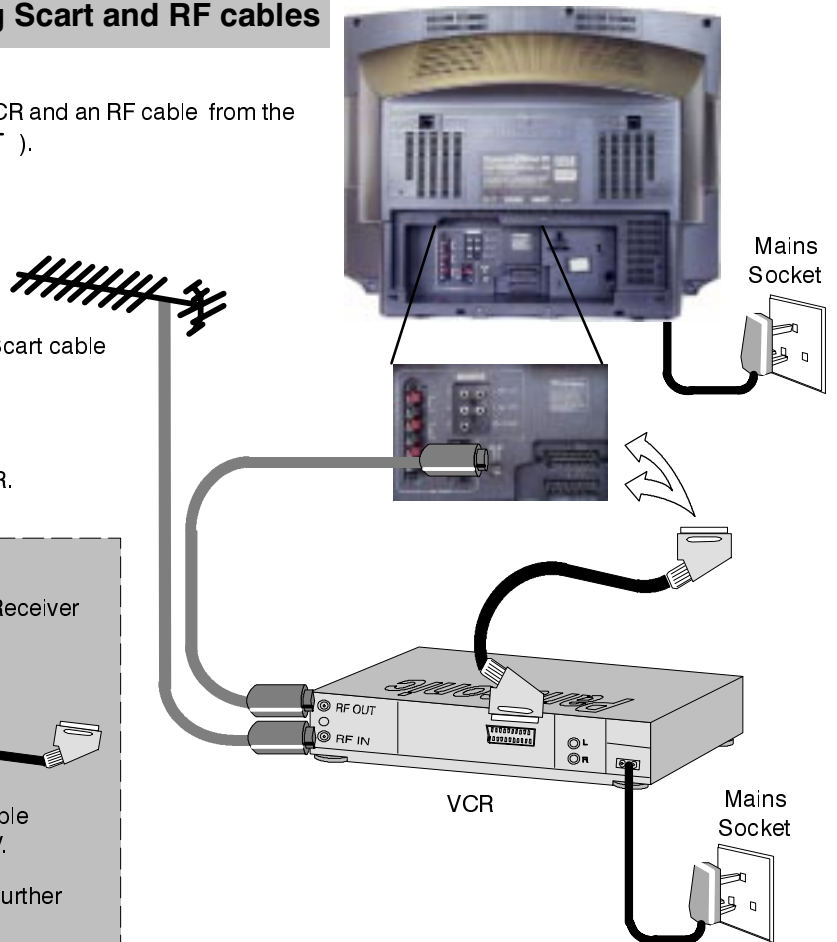
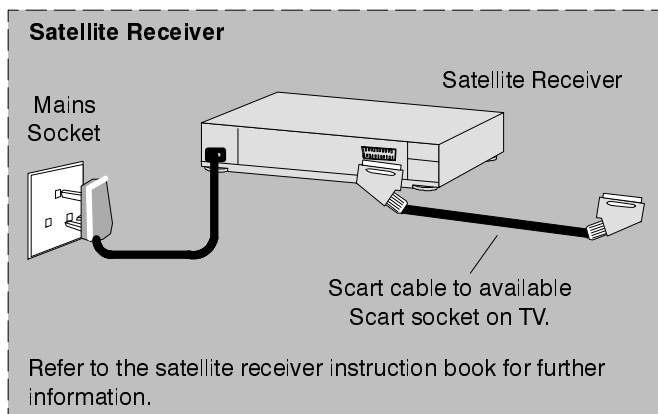
Connect the RF cable to the Aerial In socket of the VCR and an RF cable from the VCR Aerial Out socket to the TV Aerial socket ().

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 35 and 36.

QUICK START GUIDE

3. Q-Link connection of TV and VCR using Scart and RF cables

When using a "NEXTVIEWLINK" VCR the main features possible are the following :

- *Preset Download* - Downloading of tuning information from the TV to the VCR .
- *Direct TV Record* - For immediate recording of the current program (What You See Is What You Record).

When using a "Q-Link" VCR the main features possible are the following :

- *Preset Download* - Downloading of tuning information from the TV to the VCR .
- *Direct TV Record* - For immediate recording of the current program (What You See Is What You Record).
- *TV/VCR Auto Power On* - When the VCR plays a tape the TV will automatically switch On and select the AV2 input.
- *VCR Auto Power Standby* - When the TV is switched into Standby, the VCR will also switch into Standby.
- *VCR Image view On* - If the TV is in Standby mode and the VCR sends a menu to be displayed on the TV screen (e.g. Main menu), the TV will automatically switch On and the menu will be displayed.

This TV will also communicate with other VCR's that bear the following logo's :

- "DATA LOGIC" (a trademark of Metz Corporation).
- "Easy Link" (a trademark of Philips Corporation).
- "Megalogic" (a trademark of Grundig Corporation).
- "SMARTLINK" (a trademark of Sony Corporation).

These VCR's may support some or all of the above functions.

Refer to the VCR operating instruction book.

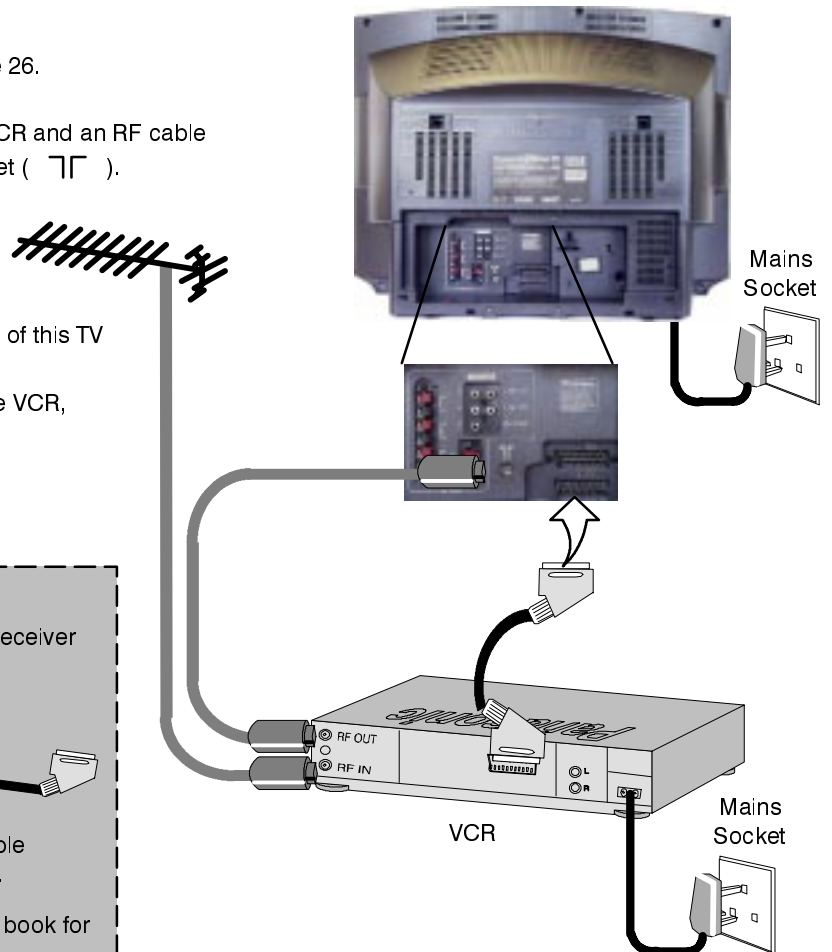
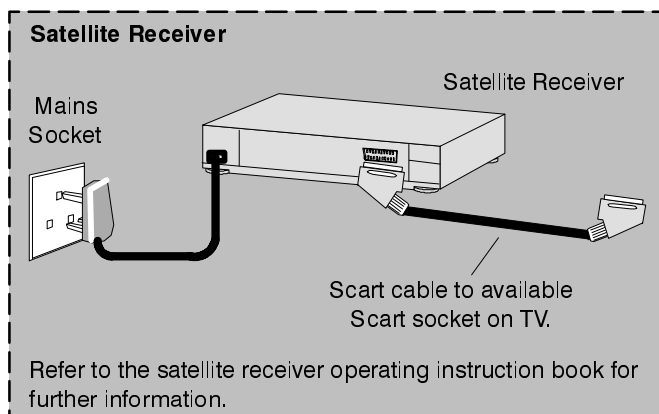
Further information on Q-Link can be found on page 26.

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 Connection

The VCR must be connected to the AV2 Scart socket of this TV using a 'fully wired' Scart cable.

For connection to the appropriate Scart socket on the VCR, refer to the VCR operating instruction book.



Notes :

Additional equipment and cables are not supplied.

Further details of Audio/ Video connections can be found on pages 35 and 36.

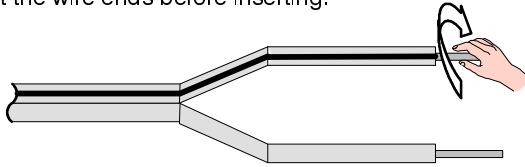
Further information for VCR and Satellite Receiver installation with this TV can be found on page 31.

QUICK START GUIDE

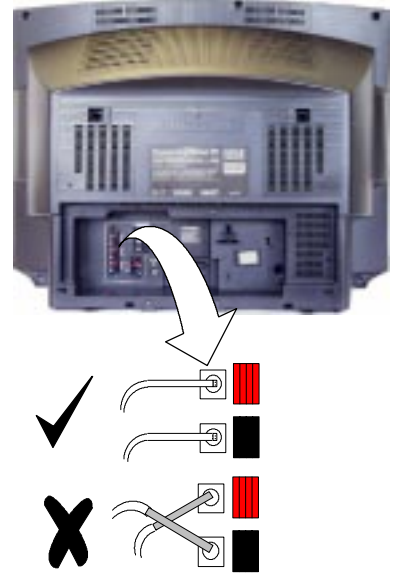
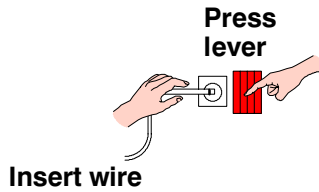
Connect the speakers

The TV must be switched Off.

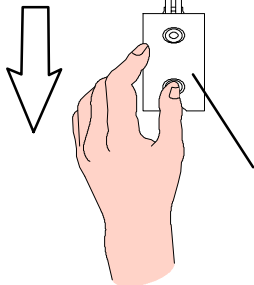
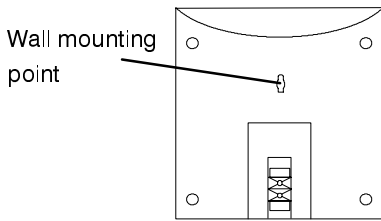
1. Twist the wire ends before inserting.



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



Rear Surround Speakers



Speaker stand mounting bracket, slide off to expose the speaker terminals.
(Speaker stands are not supplied)

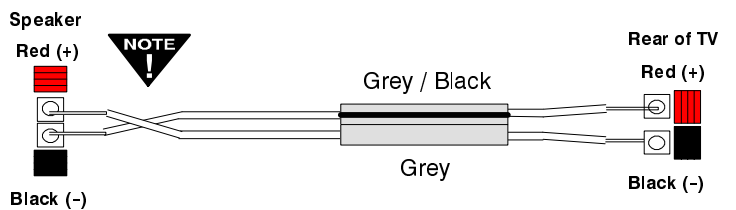
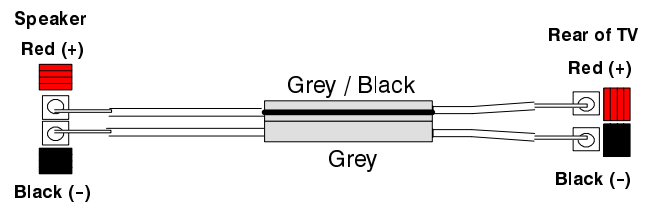
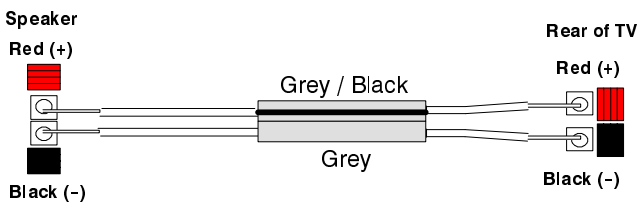
Rear Left +
Rear Left -
Rear Right +
Rear Right -



The REAR speakers can be connected in one of two ways A or B :

- A** With both speakers connected in the same way then the sound will be 'true' to the original sound signal.

- B** With the wiring to one speaker 'crossed over' then an additional, artificial ambience effect will be created.



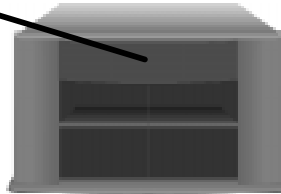
QUICK START GUIDE

Centre and 3D Subwoofer speakers (Built into Video cabinet)

Centre speaker and 3D Subwoofer - (Built in)

Important Note :

Centre speaker uses Grey cable
3D Subwoofer uses Black cable



Centre Speaker (Grey cable)

Connect Grey / Black to Red (+)
Connect Grey to Black (-)

3D Subwoofer (Black cable)

Connect Black / White to Red (+)
Connect Black to Black (-)

Grey / Black



Grey

Black / White

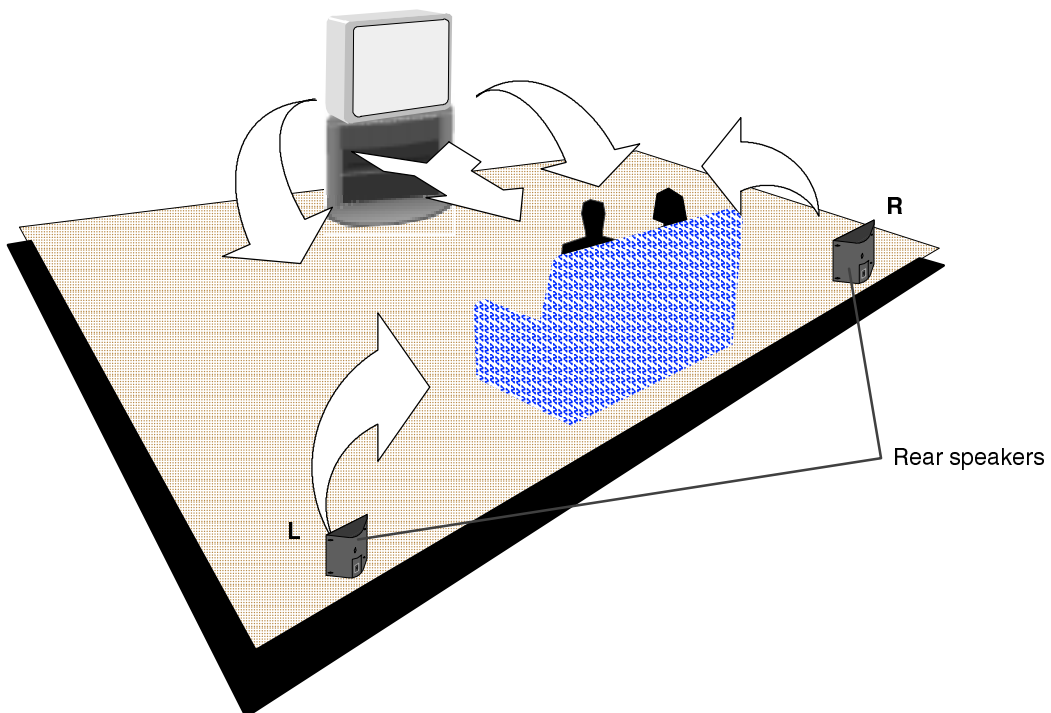


Black

Rear of TV



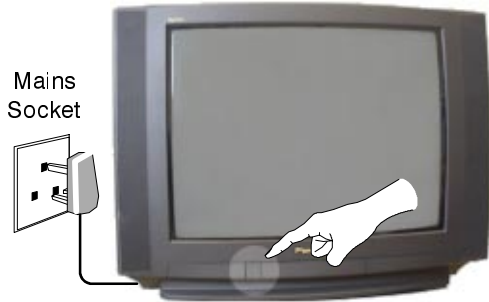
Position the speakers



QUICK START GUIDE

1 Ensure that the **VCR is in Standby mode**.
Switch ON your Satellite Receiver; to ensure reliable tuning select either SKY ONE or SKY NEWS.

Plug the TV into mains socket and switch ON.

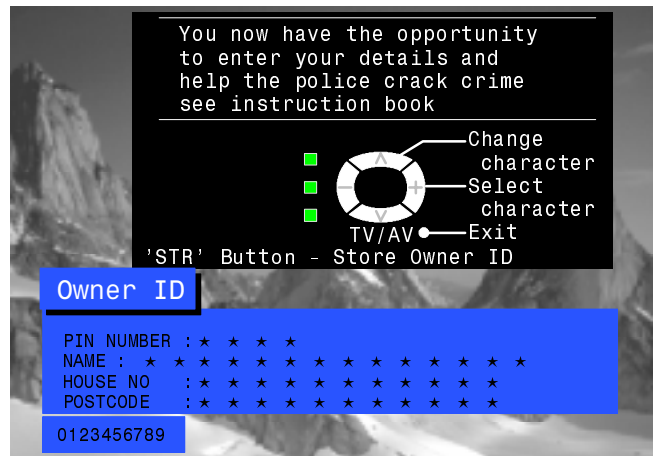
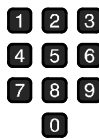


2 Programmes will appear immediately if your dealer has programmed the TV for you. If the TV has not been programmed for you then **Auto setup** will begin. TV stations will be located, sorted into order and stored ready for use.



3 Owner ID
As an added feature, this TV has the option of adding a security code (Owner ID) and personal details into its memory, so that in the unfortunate event of theft it will help the Police to trace the owner.

Enter required 4 digit Owner ID **PIN NUMBER**.
(using 0 to 9 on the remote control).



4 Enter **NAME, HOUSE NUMBER** and **POSTCODE**.

If a 4 digit **PIN NUMBER** was entered above, you will be taken automatically to the **NAME** line.

If not, move to the **NAME** line.

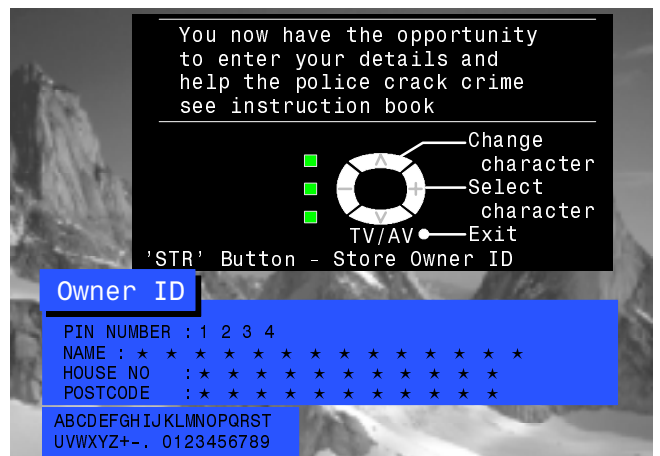
Change character.

Select character position.

Repeat above until **NAME, HOUSE NUMBER** and **POSTCODE** are entered.

Press **STR** to store the details.

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



For further information on Owner I.D., see page 24.

A space is provided on page 24 to write down the **PIN NUMBER** for future reference.

QUICK START GUIDE

5 TV to VCR Download

If a "Q-Link", "NEXTVIEWLINK" or compatible VCR has been connected to the AV2 socket before starting Step 1, programme information will be downloaded to the VCR.

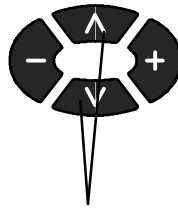
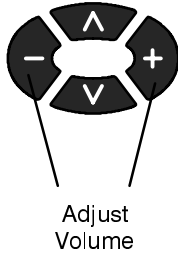
Downloaded tuning information will match the television's.

Not all VCRs support this download of programme information, some may require to be started manually. Refer to the VCR operating instruction book.

If a VCR other than those described above has been connected, then there will be no download operation, the TV is now ready for use :-



READY TO GO . . .



Notes :

If the VCR has not accepted download data from the TV, you may need to select the Download option from the VCR's menu system. Refer to the VCR operating instruction book.

If Q-Link is not operating correctly, check the following :

- The Scart cable is connected to the TV's AV2 Scart socket.
- The Scart cable is connected to the VCR's compatible (Q-Link, NEXTVIEWLINK or similar technology) Scart socket.
- The Scart cable is a "fully wired" type.

For further information on Q-Link and connecting equipment, see pages 26, 35 and 36.

- The sorted programme 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 17 for details.

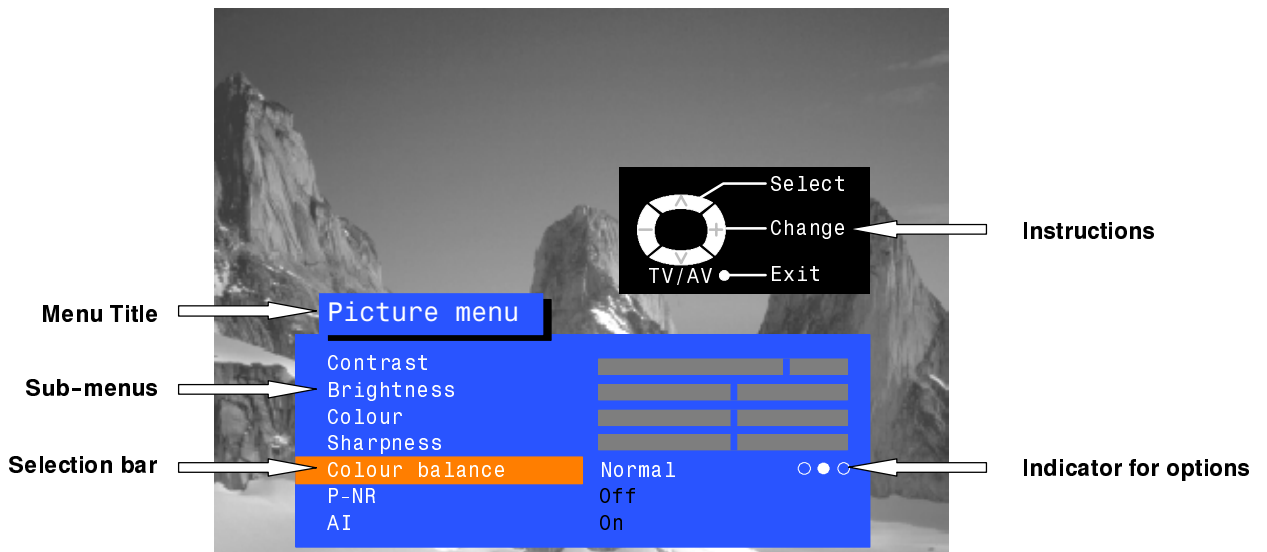
| Prog. Position | All channels | No CH5 | No CH5 / S4C | No CH4 / CH5 | No S4C | No CH4 / S4C | No CH4 / S4C / CH5 |
|----------------|--------------|--------|--------------|--------------|--------|--------------|--------------------|
| 1 | BBC1 | BBC1 | BBC1 | BBC1 | BBC1 | BBC1 | BBC1 |
| 2 | BBC2 | BBC2 | BBC2 | BBC2 | BBC2 | BBC2 | BBC2 |
| 3 | ITV | ITV | ITV | ITV | ITV | ITV | ITV |
| 4 | CH4 | CH4 | CH4 | S4C | CH4 | CH5 | SAT |
| 5 | S4C | S4C | SAT | SAT | CH5 | SAT | ● |
| 6 | CH5 | SAT | ● | ● | SAT | ● | ● |
| 7 | SAT | ● | ● | ● | ● | ● | ● |

Note :

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

USING THE ON SCREEN DISPLAYS

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



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 **PICTURE**, **SOUND** and **SET UP** buttons are used to open the main menus and also to return to the previous menu.

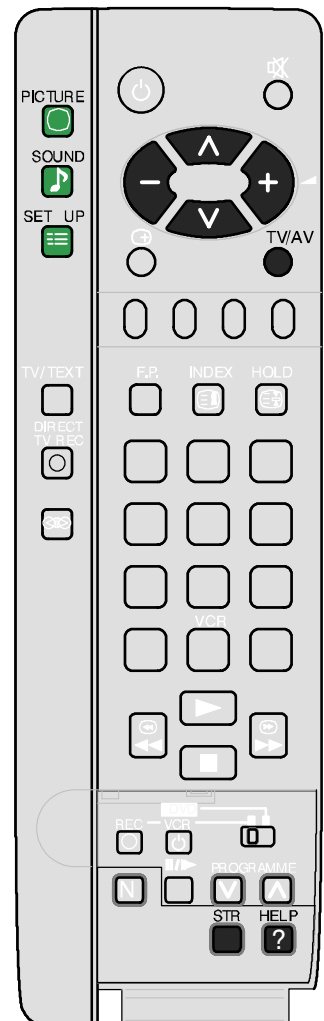
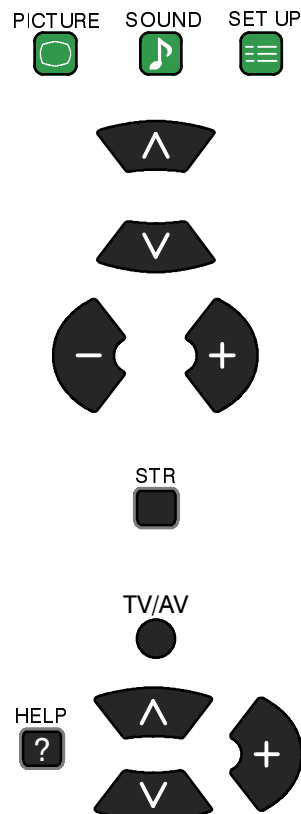
The up and down cursor buttons are used to move the cursor up and down the menus.

The left and right cursor buttons are used to access menus, adjust levels or to select from a range of options.

The **STR** button is used to store settings after adjustments have been made or options have been set.

The **TV/AV** button is used to exit the menu system and return to the normal viewing screen.

The **HELP** button will run a demonstration of the menus available. Press the **HELP** button and select one of the options.



PICTURE MENU

Open the Picture menu

PICTURE



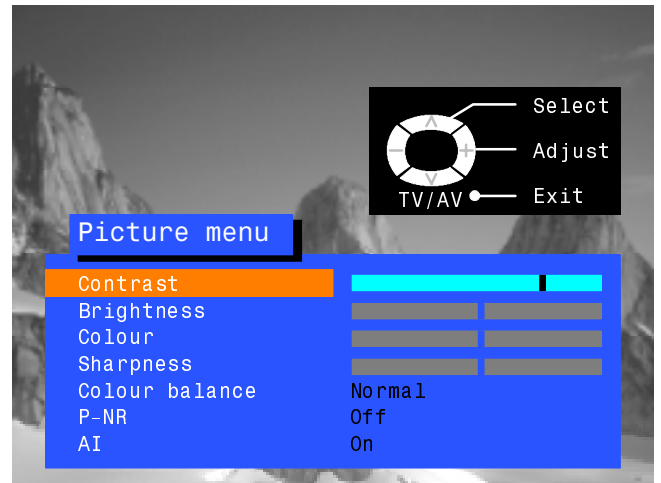
Move to your choice



Increase or decrease levels or set options



Press the TV/AV button to exit the Picture menu



Contrast

Brightness

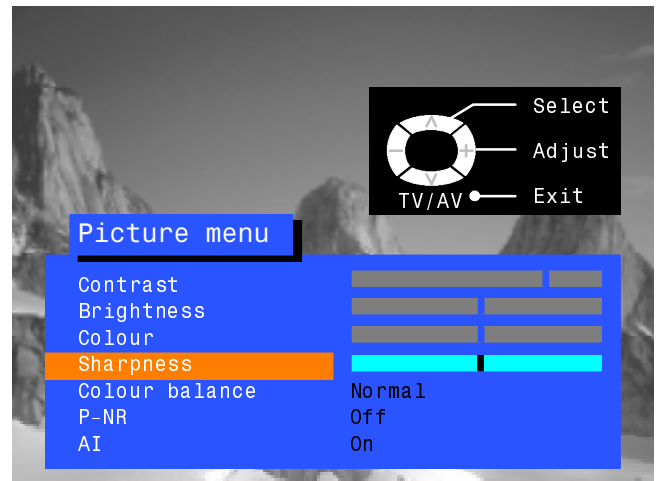
The Contrast, Brightness, Colour and Sharpness levels can be adjusted to suit your own preferences.

Colour

Sharpness

Tint

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.



SOUND MENU

Open the Sound menu



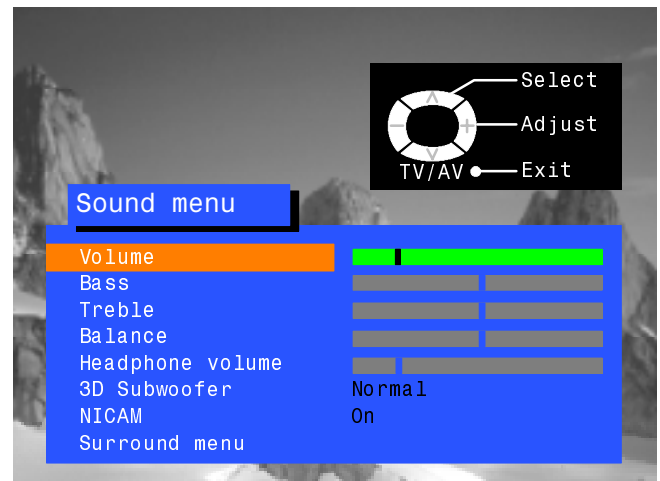
Move to your choice



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 29). 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.

3D Subwoofer



To add additional bass response the 3D subwoofer has three options :
 Off - Switched Off.
 Normal - Medium bass response.
 Full - Super deep bass response.

NICAM

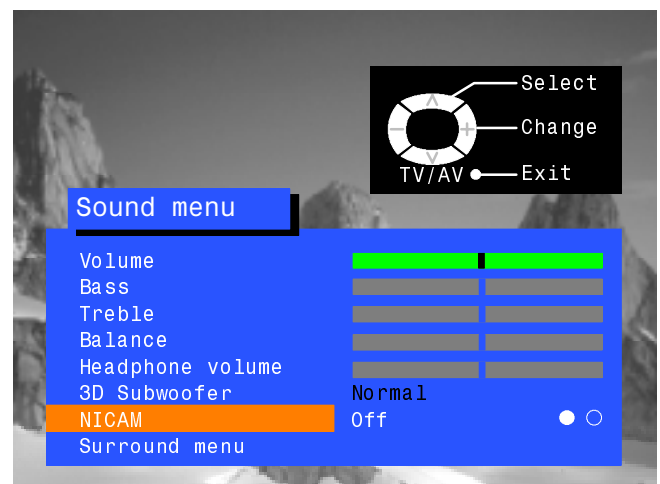
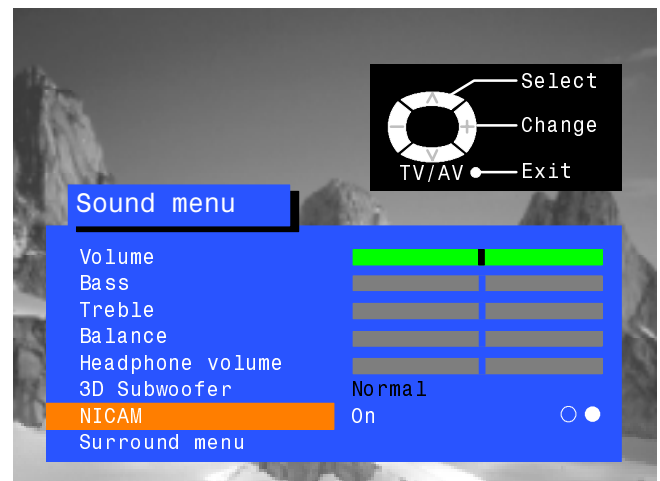


Select On to provide stereo sound reproduction. Select Off for FM Mono sound output.

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.



Surround menu

Leads to the Surround menu for Dolby Pro Logic and simulated modes of operation, as described on pages 28 to 30.

SETUP MENU

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

Open the Setup menu



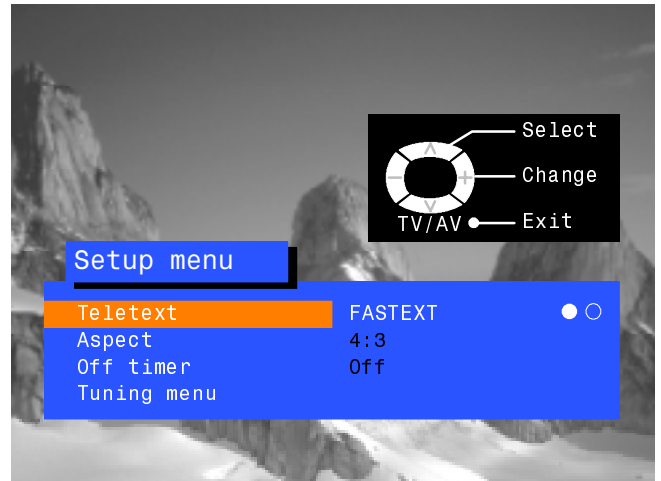
Move to your choice



Increase or decrease levels, set options or access further menus



Press the TV/AV button to exit the Setup menu



● ○
Teletext

The Teletext option allows you to choose between FASTEXT or LIST mode. See page 33.

● ○
Aspect

Aspect allows you to view widescreen programme material with the correct aspect ratio (16:9).

● ○ ○ ○ ○ ○ ○ ○
Off timer

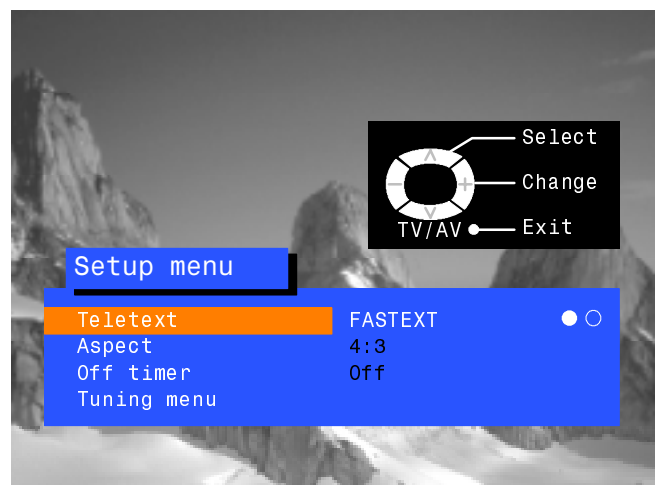
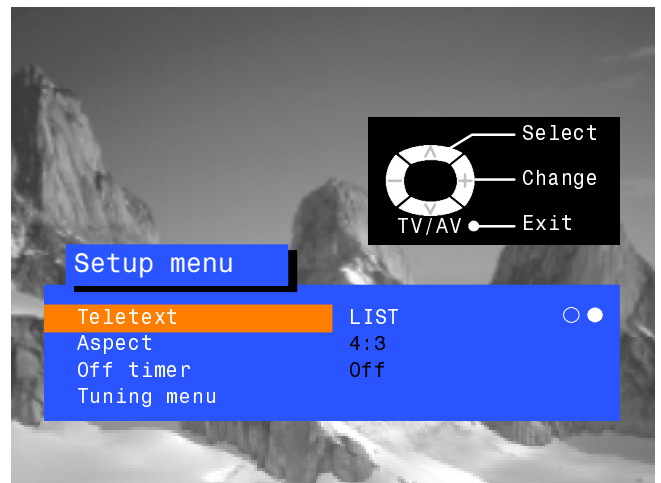
Off timer will switch the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

Tuning menu

The Tuning menu provides an entry to many other features including Programme edit and Auto setup. See page 16.

Volume correction

Volume correction (in AV mode only) allows you to adjust the volume level of individual stations.



TUNING MENU - overview

Open the Setup menu



Move to Tuning menu



Access Tuning menu



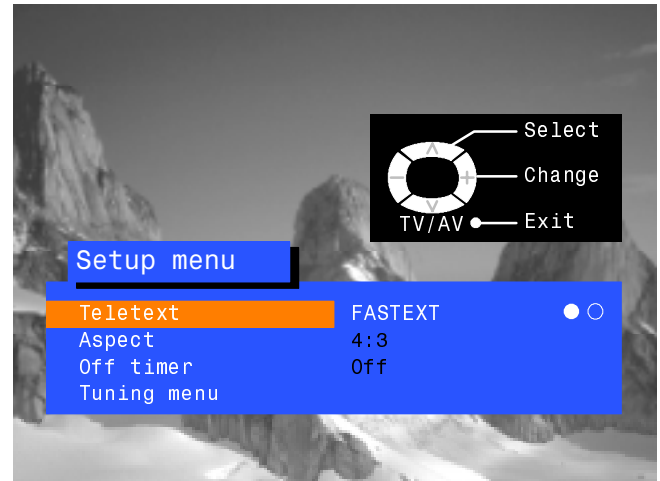
Move to your choice



Increase or decrease levels, set options or access further menus

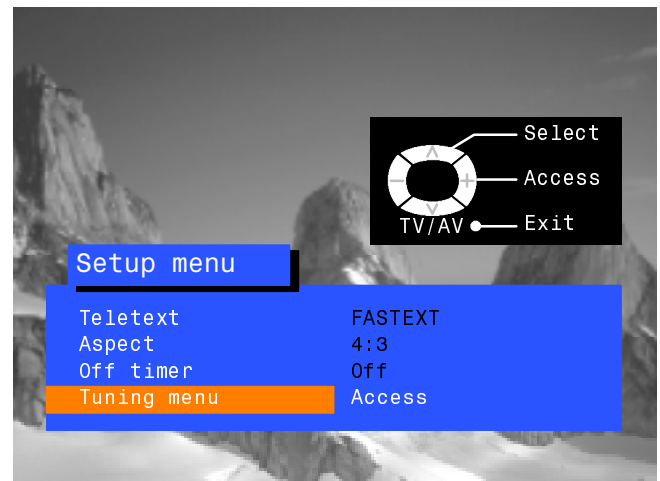


Press the TV/AV button to exit



Programme edit

Accessing the Programme edit menu will allow stations to be moved, added, deleted, named or locked. See page 17.



Auto setup

The Auto setup menu allows you to automatically retune the TV. See page 21.

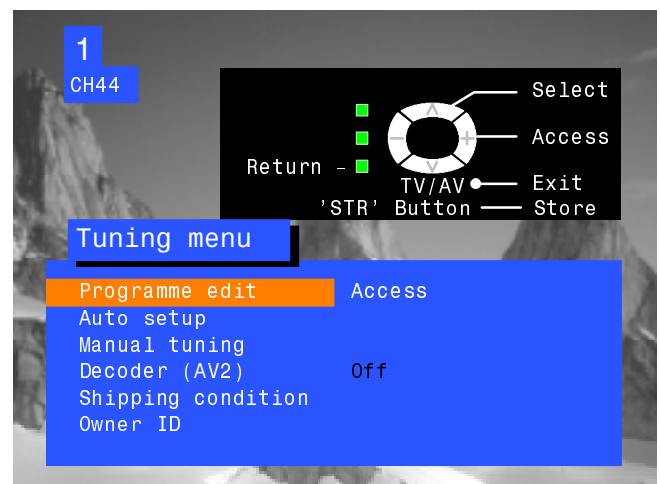
Manual tuning

The Manual tuning menu allows individual programme positions to be tuned manually. See page 22.

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.



Shipping condition

Allows you to clear all tuning information and reset all control levels back to factory settings. See page 23.

Owner ID

Allows you to enter a security code and address information. See page 24.

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



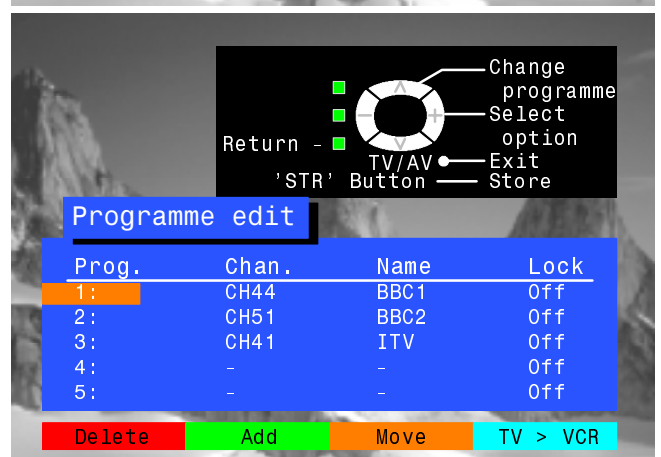
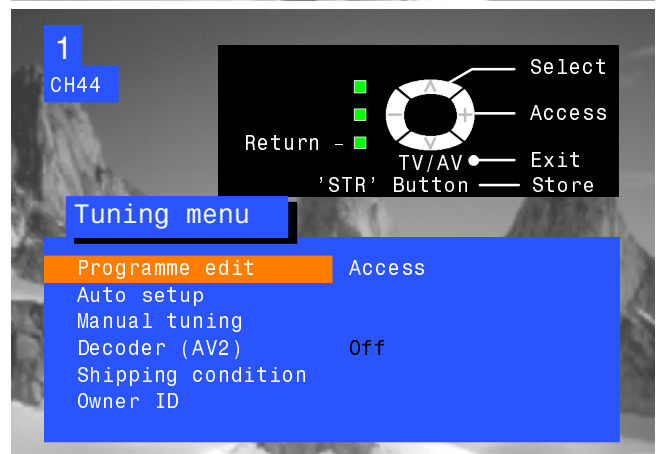
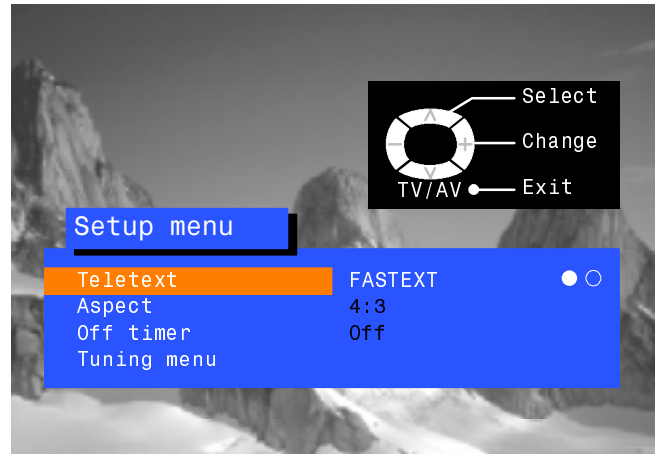
Press the Red button on remote control



Press the Red button again to confirm



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



TUNING MENU - PROGRAMME EDIT

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

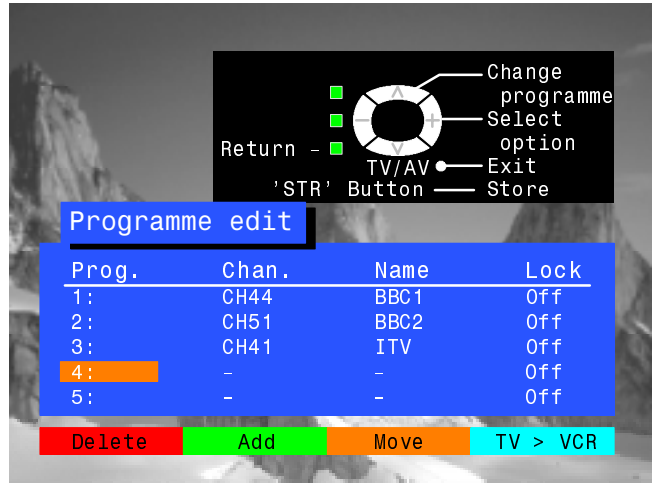


This blank programme can then be tuned, named or locked.

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



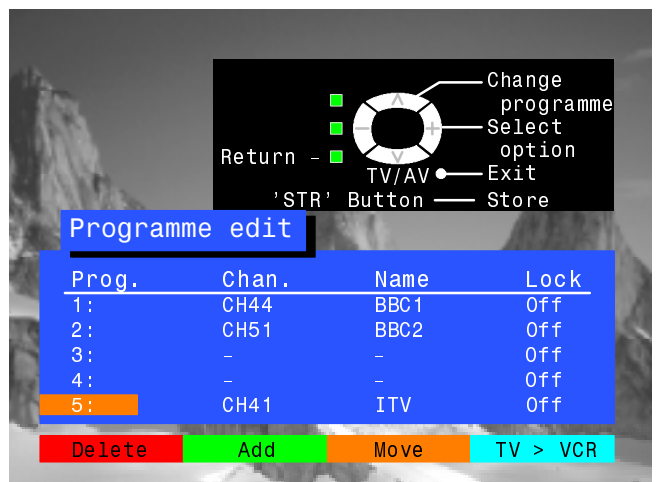
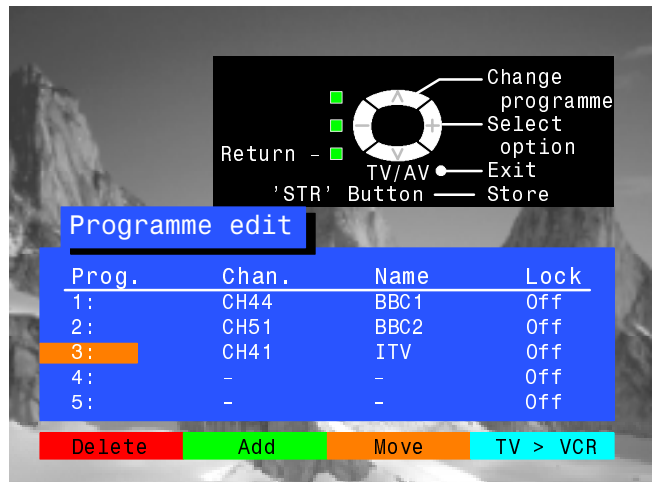
Choose new position



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 rename a programme position

Choose the programme position



Move to the Name column



Choose the new character



Move to the next character position

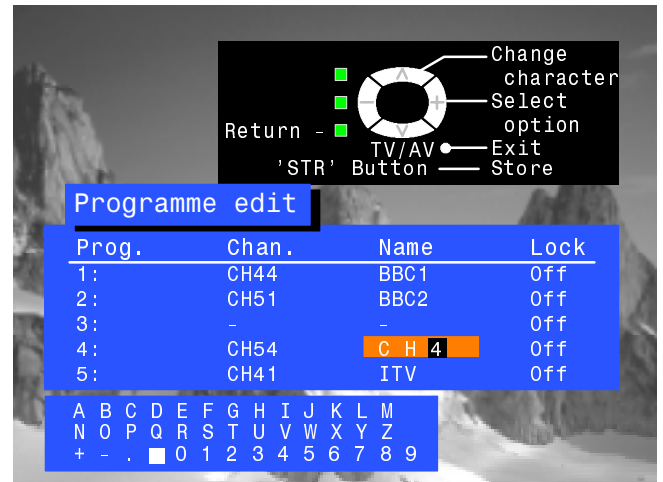


Continue until renaming is done

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

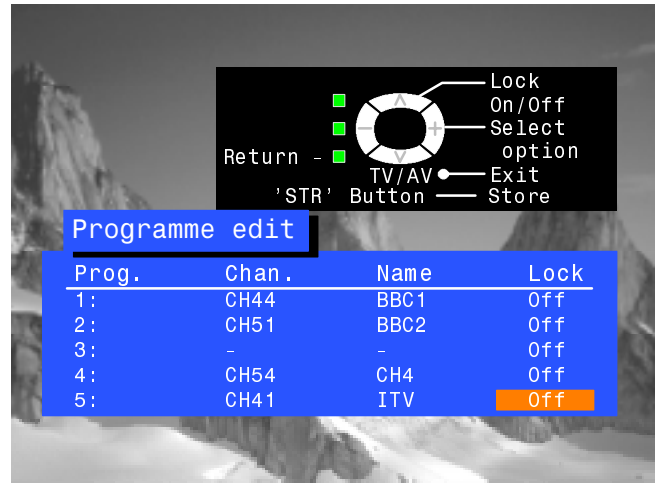


If you have finished in the Programme edit menu, press the TV/AV button to exit



Note :

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



To 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 while, 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

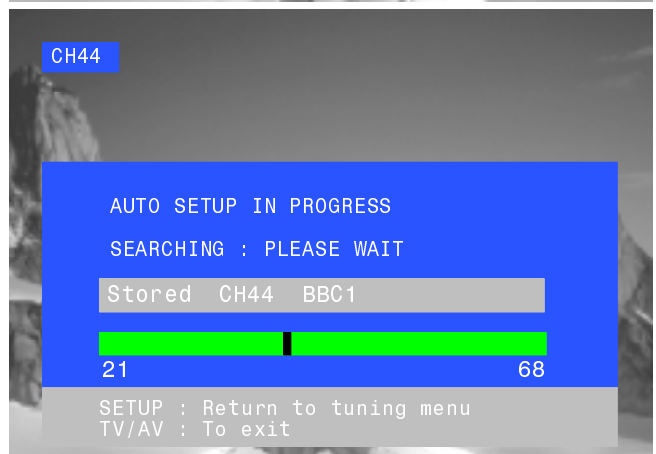
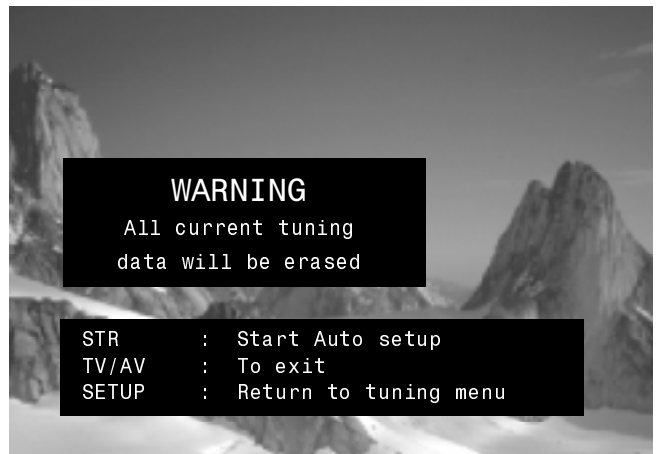
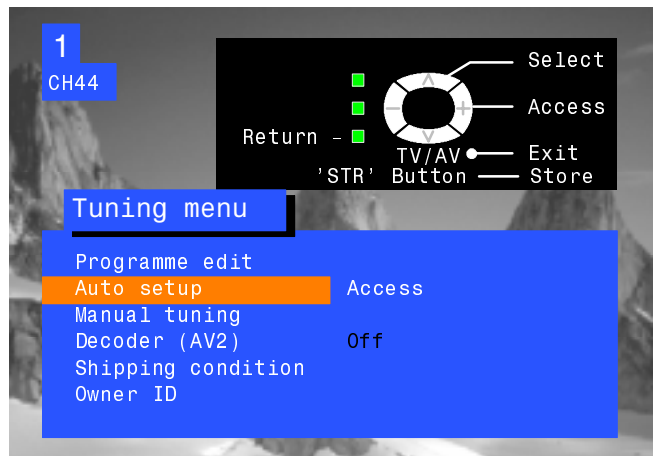
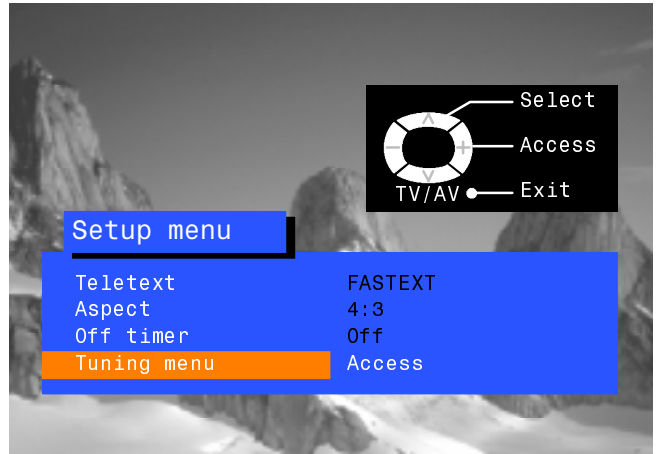


Press STR to start Auto setup



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 26).

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

SET UP



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

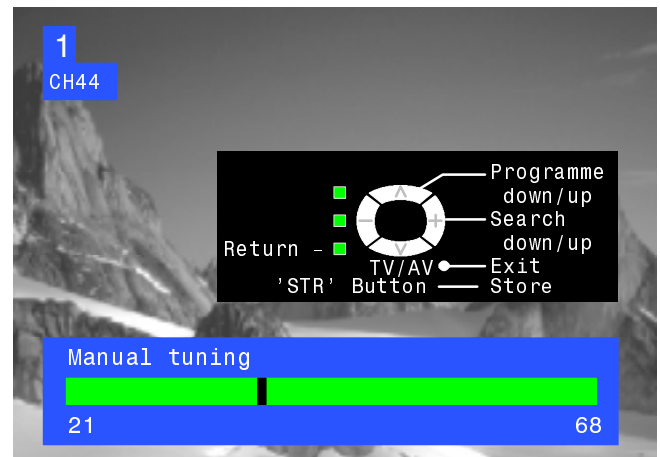
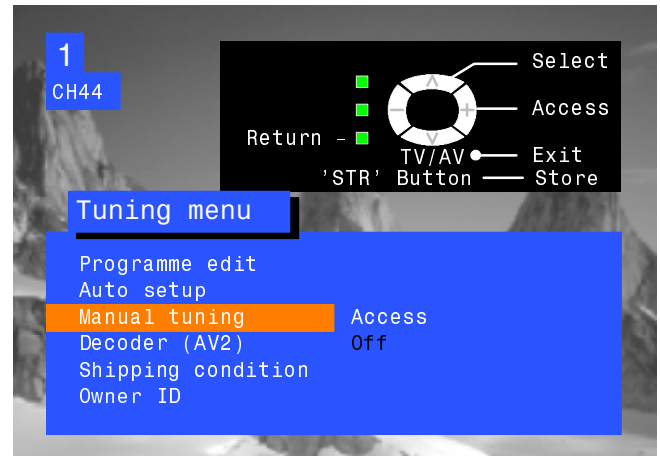


When the desired station is found, press STR to store.



The programme position will flash

Press the TV/AV button to exit.



Important note :

On passing channel 68, tuning will restart at channel 21.

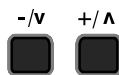


Manual tuning (Front panel)

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



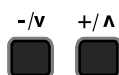
Press the - or + button to access Tuning mode



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



Press the - or + button to change programme position or start search

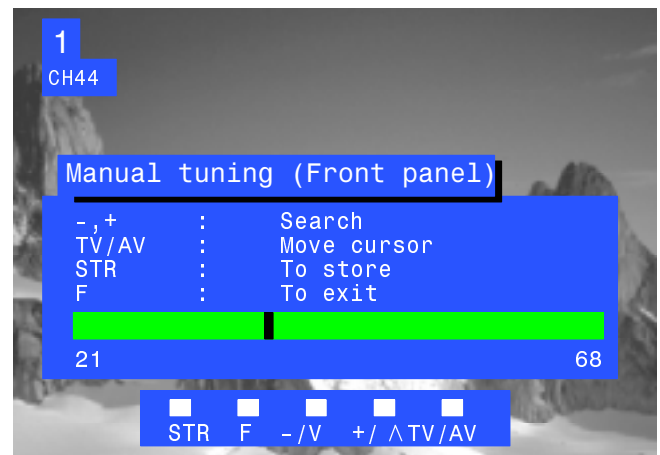


When the desired station is found, press STR to store.



The programme position will flash

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



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 when 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 31.

Open the Setup menu



Move to Tuning menu



Access Tuning menu



Move to Shipping condition



Access Shipping condition



Press STR to start



Press again, to confirm, each time that you are asked, "Are you sure ?"

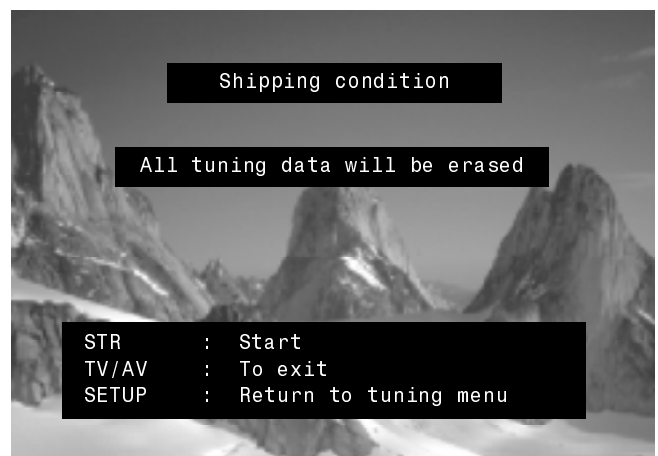
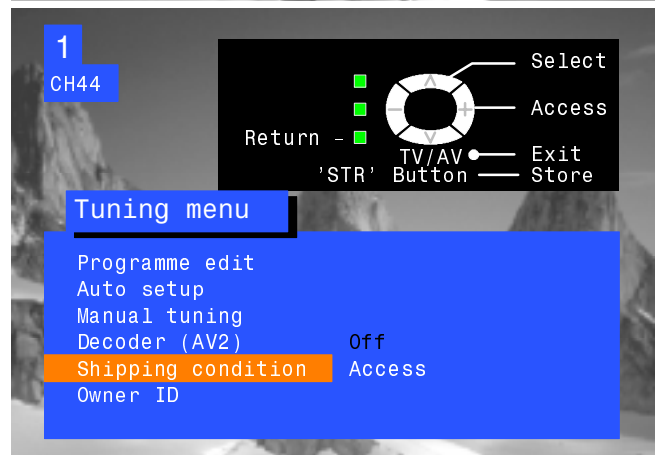


Switch TV off and wait for a few seconds.

Switch TV on again.

Auto setup will begin, stations will be located, sorted and stored ready for use.










See page 21.

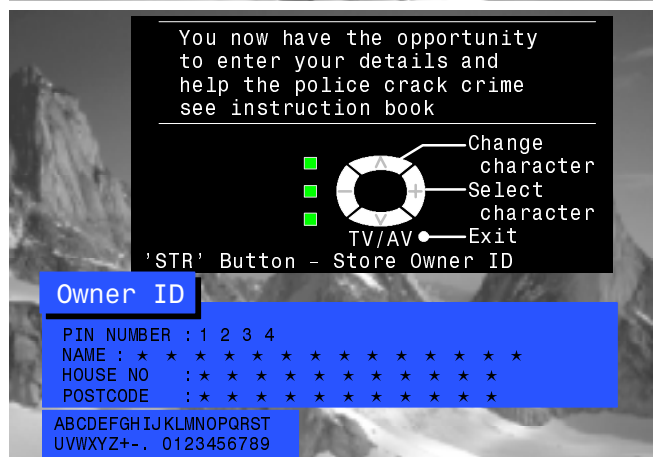
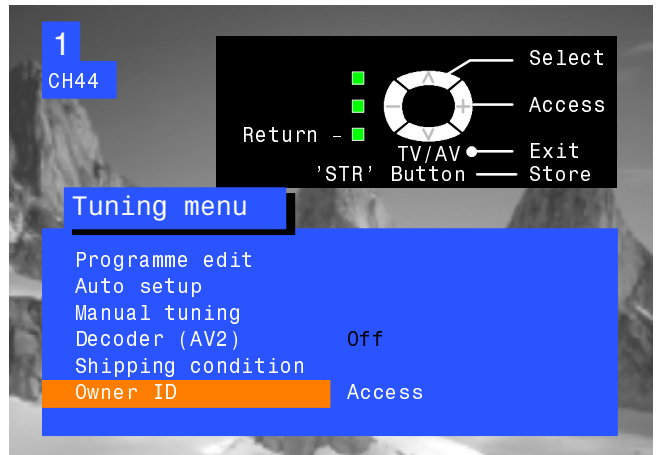
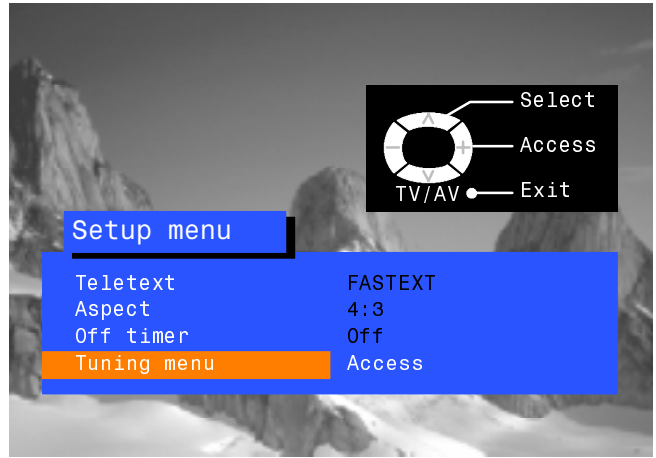
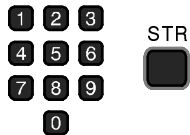


TUNING MENU - OWNER I.D.

Owner I.D. allows you to enter a security code and address information so that in the unfortunate event of theft it will help the Police to determine the owner.

If the Owner I.D. information was not entered after Auto setup or it is necessary to alter some of the I.D. information it can be re-accessed via the Tuning menu.

- Open the Setup menu 
 - Move to Tuning menu  
 - Access Tuning menu  
 - Move to Owner I.D.  
 - Access Owner I.D.  
- If the Owner I.D. has previously been set, enter the **PIN NUMBER** (using 0 to 9 on the remote control) followed by **STR** to proceed, this will take you to the **NAME** option.
- If no Owner I.D. has previously been set, enter the required 4 digit Owner I.D. **PIN NUMBER** (using 0 to 9 on the remote control).
- If a 4 digit **PIN NUMBER** was entered above, you will be taken automatically to the **NAME** line.
- If not, move to the **NAME** line.
- Change character.**
- Select character position.**
- Repeat above until **NAME**, **HOUSE NUMBER** and **POSTCODE** are entered.
- Press STR to store the details. Press again, to confirm, when asked, "Are you sure ?"**
- The Tuning menu will be displayed.**
- Press the TV/AV button to exit**



For future reference,
write your PIN Number here :

AV SELECT AND SETUP

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

Press the TV/AV button

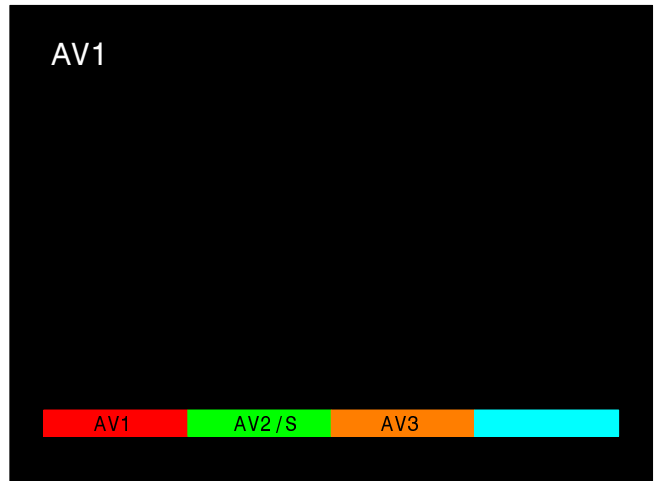


Press the appropriate coloured remote control button (whilst the options remain on screen)



The options will disappear

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



Setup menu

Open the Setup menu



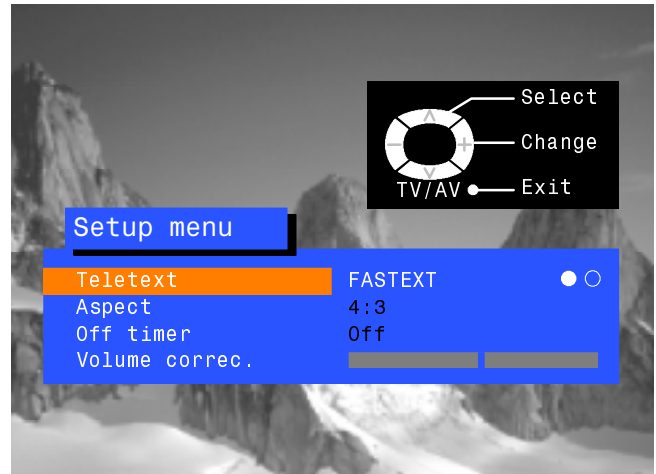
Move to your choice



Access adjustments or options



Press the TV/AV button to exit



Sound menu

Open the Sound menu



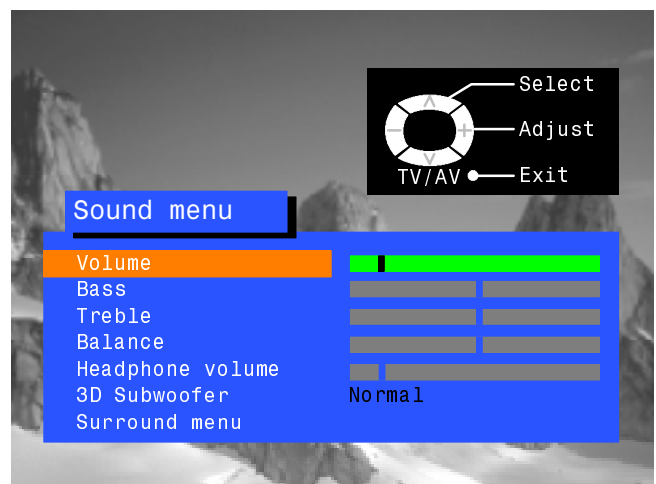
Move to your choice



Access adjustments or options



Press the TV/AV button to exit



Q-Link allows the television to communicate with a compatible VCR

For Q-Link communication to work, the TV must be connected to a VCR with the "Q-Link", "NEXTVIEWLINK", "DATA LOGIC", "Easy Link", "Megalogic" or "SMARTLINK" logo using a 'fully wired' Scart cable between the AV2 socket of the television and the appropriate socket on your VCR.

For connection to the appropriate Scart socket on the VCR, refer to the VCR operating instruction book.

When using a "NEXTVIEWLINK" VCR the main features possible are the following :

- *Preset Download* - Downloading of tuning information from the TV to the VCR .
- *Direct TV Record* - For immediate recording of the current program (What You See Is What You Record).

When using a "Q-Link" VCR the main features possible are the following :

- *Preset Download* - Downloading of tuning information from the TV to the VCR .
- *Direct TV Record* - For immediate recording of the current program (What You See Is What You Record).
- *TV/VCR Auto Power On* - When the VCR plays a tape the TV will automatically switch On and select the AV2 input.
- *VCR Auto Power Standby* - When the TV is switched into Standby, the VCR will also switch into Standby.
- *VCR Image view* - When the VCR plays a tape the TV will automatically switch On and select the AV2 input.

This TV will also communicate with other VCR's that bear the following logo's :

- "DATA LOGIC" (a trademark of Metz Corporation).
- "Easy Link" (a trademark of Philips Corporation).
- "Megalogic" (a trademark of Grundig Corporation).
- "SMARTLINK" (a trademark of Sony Corporation).

These VCR's may support some or all of the above functions.

Refer to the VCR operating instruction book.

Preset Download

This allows the programme order from the TV to be downloaded to the VCR, this helps to ensure that correct recordings are made, there are several ways to perform this operation :

1. During installation as explained in the 'Quick Start Guide' beginning on page 6.
2. When Auto setup is started from within the Tuning menu, see page 21.
3. When TV to VCR manual download is started from within 'Programme edit', see page 20.
4. Preset download started from the VCR, refer to the VCR operating instruction book.

Important Note:

Not all VCRs support this type of data communication system. Some may support certain features, but not others. Refer to the VCR operating instruction book.

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

What You See Is What You Record (DIRECT TV RECORDING)

This will allow the immediate recording of the program currently shown on the Television.

Press the DIRECT TV REC button on the remote control 

If the VCR is in Standby mode with a useable tape inserted, it will automatically switch on when you press the DIRECT TV REC button.

If a "Q-Link" VCR is connected a message will appear on the TV screen showing what is being recorded, or if it is not possible to record. Some "Q-Link" compatible VCR's will only display the message when on the VCR programme position(0) or in AV mode. Refer to the VCR operating instruction book.

VCR recording preset prog

Recording this programme now

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

TV / VCR Auto Power On

(With a Panasonic Q-Link VCR connected, this additional feature is available).

- If you insert a tape in the VCR and press the Play button, the TV will automatically switch On and select the AV2 input so that you can view the tape.

Some other VCR's may support this feature. Refer to the VCR operating instruction book.

VCR Auto Power Standby

(With a Panasonic Q-Link VCR connected, this additional feature is available).

When the TV is switched into 'Standby mode', the VCR will also switch into 'Standby mode' providing that the VCR is in 'Rewind' or 'Stop' mode, or there is no tape currently in the VCR.

- If the 'Auto Power Standby' command is received by the VCR whilst a tape is rewinding, the VCR will not switch into 'Standby mode' until after rewinding has finished.

Some other VCR's may support this feature. Refer to the VCR operating instruction book.

VCR Image View On

(With a Panasonic Q-Link VCR connected, this additional feature is available).

If the TV is in Standby mode and the VCR sends a menu to be displayed on the TV screen (e.g. Main menu), the TV will automatically switch On and the menu will be displayed.

Some other VCR's may support this feature. Refer to the VCR operating instruction book.

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 NICAM Stereo transmissions. If NICAM Stereo transmissions are not transmitted in your area then the **Dolby Surround** information will not be present and it will not be possible to use Pro Logic operation (unless you are playing back from a stereo VCR, Digital Versatile Disc etc.).

Dolby Pro Logic Surround will operate with videos, laser discs and TV programmes that bear the **Dolby Surround** logo :

Ensure that the "Surround" feature is switched On



Open the Sound menu



Move to Surround menu



Access Surround menu



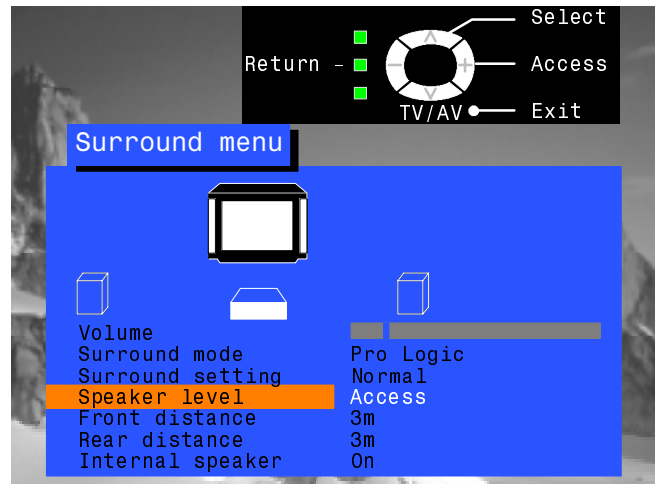
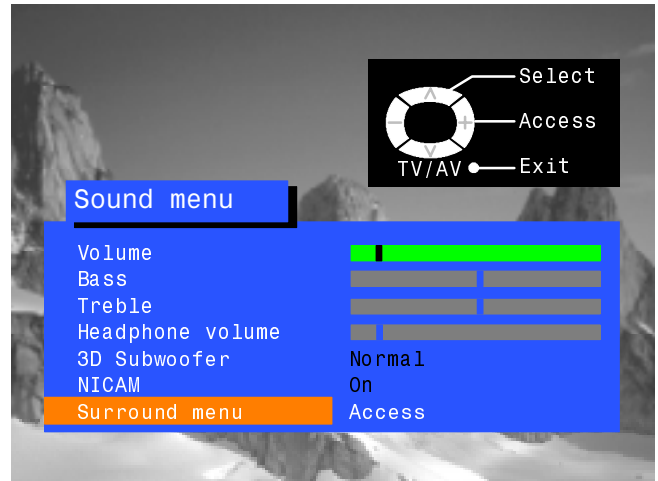
Move to your choice



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 29.

Surround setting



Choosing Simulated allows selection of Disco, Movie or Stadium modes, as described on page 30.

Speaker level

Allows adjustment of the output levels for each channel, as described on page 30.

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



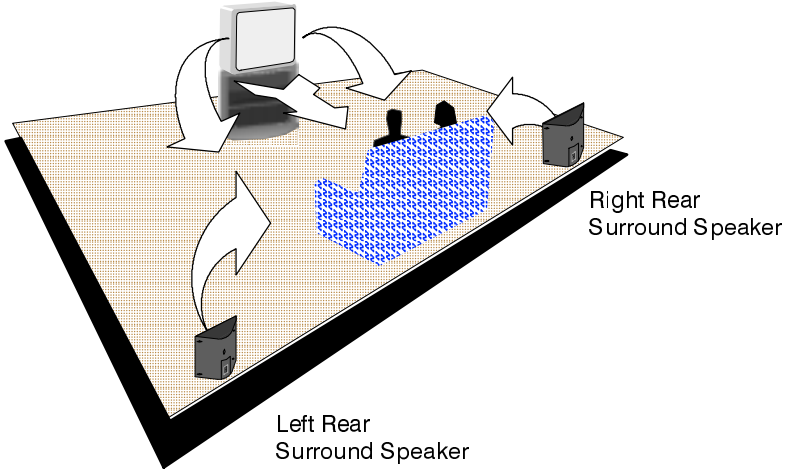
Normally set to **On**, but, when separate external amplified front speakers are connected, then the internal speakers can be switched **Off**. See page 37 for connection details.

PRO LOGIC MODE

Choosing Surround Pro Logic mode allows three possible modes of operation :

Normal, Phantom or 3 Stereo.

Dolby Pro Logic Normal mode

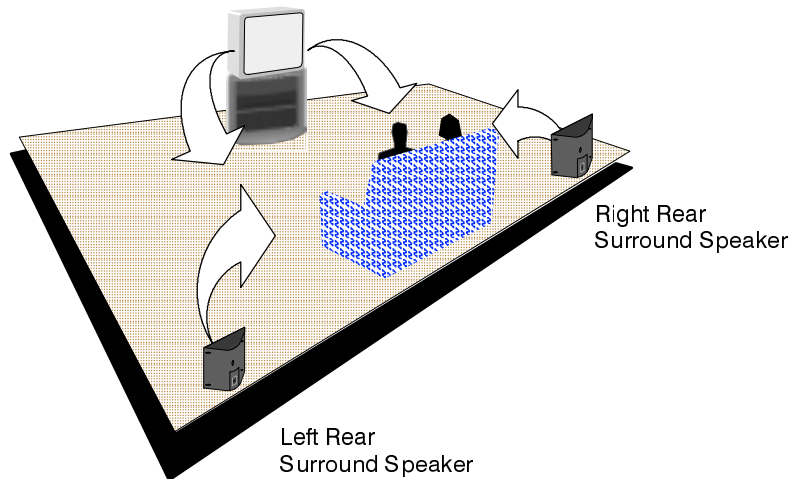


NOTE

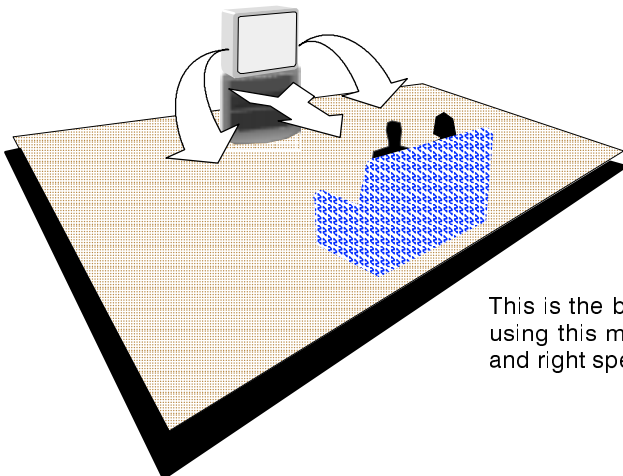
Pressing the Surround switch will switch the surround mode into 2 channel stereo only (and vice-versa)

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 mode



Dolby Pro Logic 3 Stereo mode



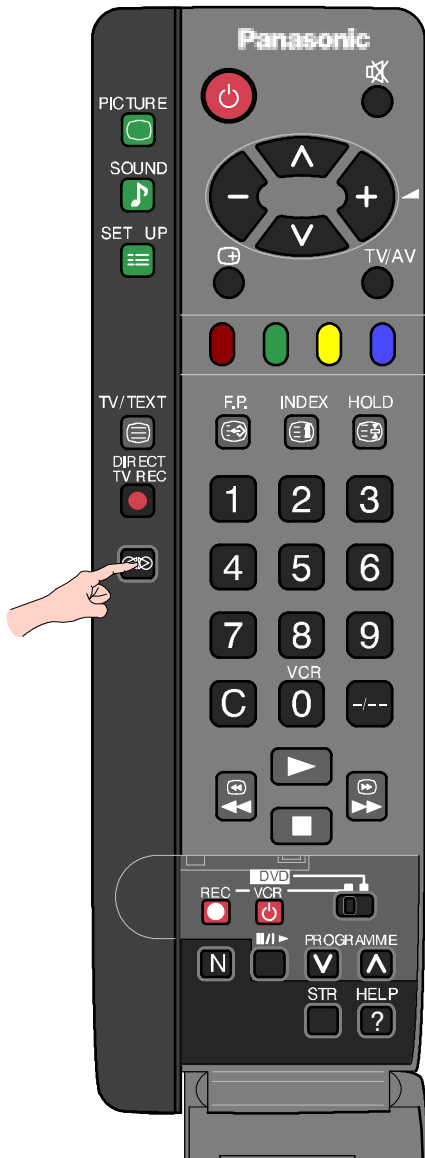
This is the best mode to use if rear speakers are not connected. When using this mode, the surround information is redirected to the front left and right speakers.

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. |

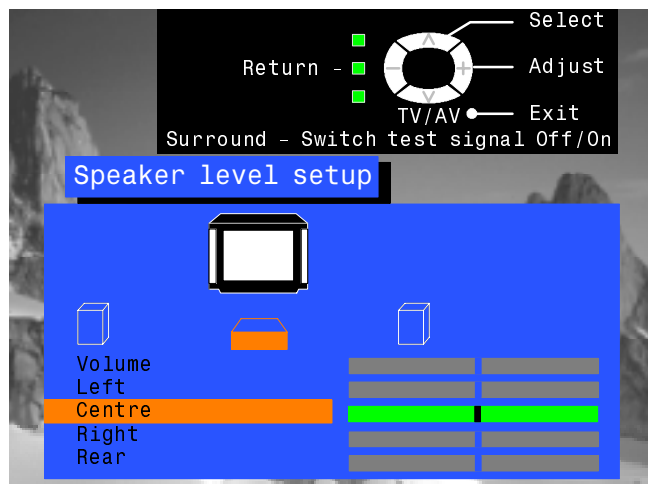
SPEAKER LEVEL SETUP



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 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.

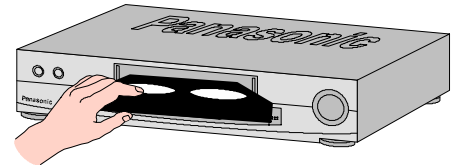
However, if for some reason your VCR is tuned to a different RF channel then you will not receive any picture or sound from your VCR on programme position '0' of the TV. It will be necessary to either adjust the RF channel of your VCR (some VCR's allow adjustment of their RF channel via their remote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

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

Use the AV2S Scart terminal for a Q-Link, NEXTVIEWLINK or compatible VCR.



To tune your TV to the VCR

Switch on the VCR, insert and play a pre-recorded tape with known content

Open the Setup menu



Move to Tuning menu



Access Tuning menu



Move to Manual tuning



Access Manual tuning



Select programme position '0' VCR



Start searching for the VCR playback of the known content tape



When the VCR playback is found, press STR to store



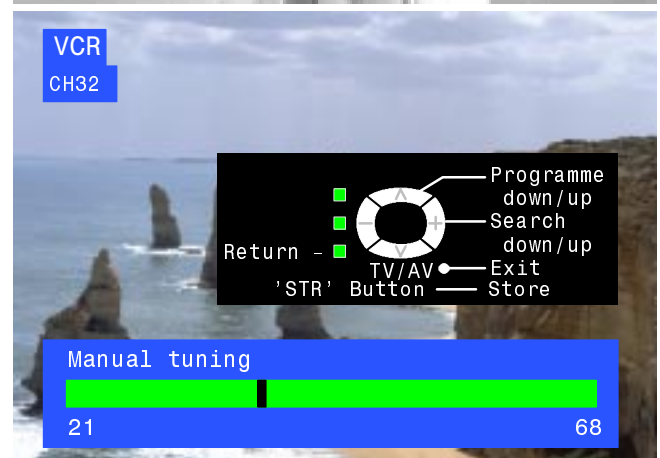
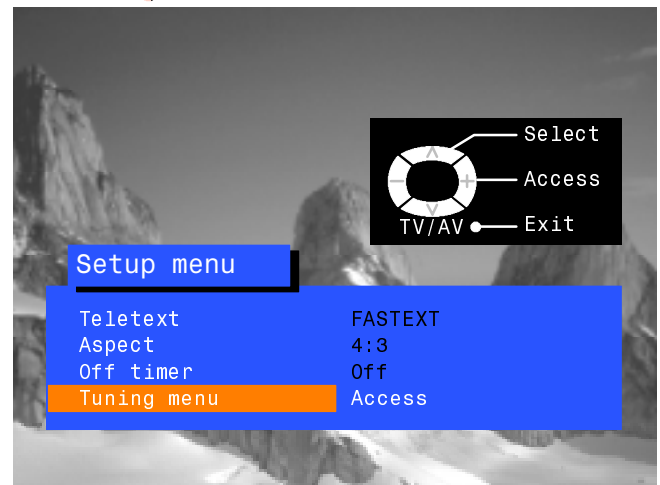
Press the TV/AV button to exit.



See below for installation of VCR and Satellite Receiver.

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 / 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.



Standby

Press to switch the VCR or DVD to standby mode. Press again to switch back on.



VCR / DVD switch

Use this switch to select whether controls operate DVD equipment or your VCR.



Play

Press to playback the tape or DVD.



Stop

Press to stop the tape or DVD.



Skip / Fast Forward / Cue

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.



Skip / Rewind / Review

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.



Pause / Still

Press in playback mode, the picture will pause. Press again to restart play.



Programme Up / Down

Press to increase or decrease the VCR programme position by one.



Record

Press this button to start recording.

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 operation will display the contrast function with a cyan 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 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 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 :

- Press the Up / Down buttons to increase or decrease the page number by one.
- 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



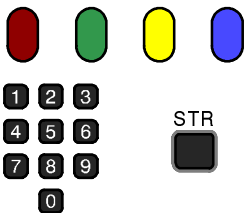
Reveal

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 FASTEXT 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

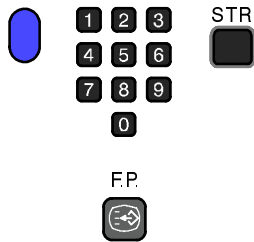


Hold

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

TELETEXT OPERATION

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 FASTEXT operation

Press **INDEX** to return to the main index page.

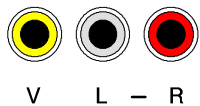
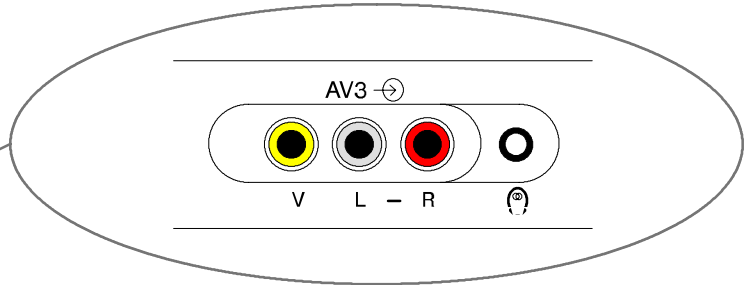
Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.

AUDIO / VIDEO CONNECTIONS

Front AV3 RCA Audio / Video and Headphones Sockets



Press and release to open



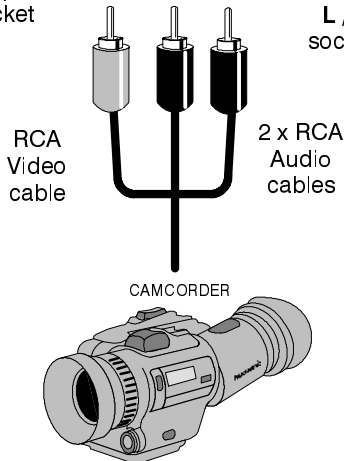
V L - R



Output from
Headphones
socket

Video input to
V socket

Audio input to
L / R
sockets

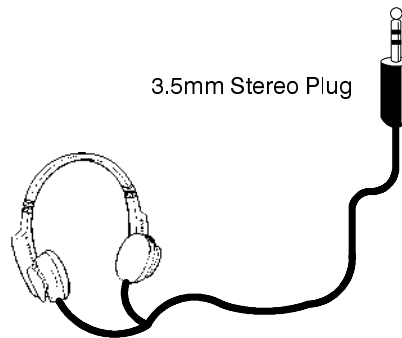


RCA
Video
cable

2 x RCA
Audio
cables

CAMCORDER

3.5mm Stereo Plug



STEREO HEADPHONES
with 3.5mm Plug

Note :

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

■ Scart socket information

AV1 Scart socket

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

Suitable inputs for **AV1** include RGB (Red/Green/Blue).

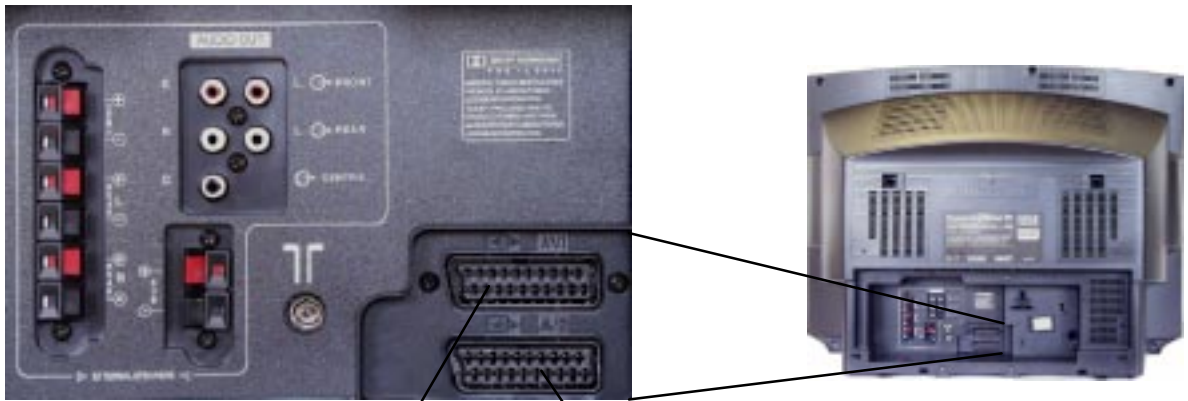
AV2 Scart socket (S-Video, Q-Link)

| | | | | |
|------------------|------|--|------|-----------------|
| 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 - | Q-Link data |
| 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 - | | | |

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

AUDIO / VIDEO CONNECTIONS

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



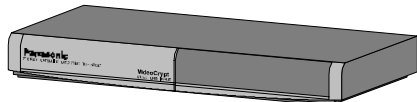
Input/Output from
AV1 Scart Socket

Scart cable

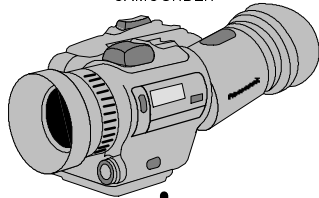
VCR



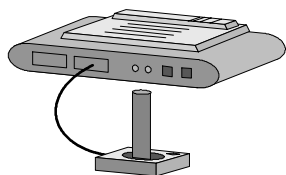
SATELLITE RECEIVER



CAMCORDER



GAMES CONSOLE / COMPUTER (RGB)



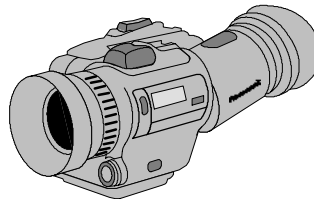
Input/Output from
AV2 Scart Socket
Q-Link data

Scart cable

VCR
S-VIDEO VCR
Q-LINK COMPATIBLE VCR



S-VIDEO CAMCORDER



Notes:

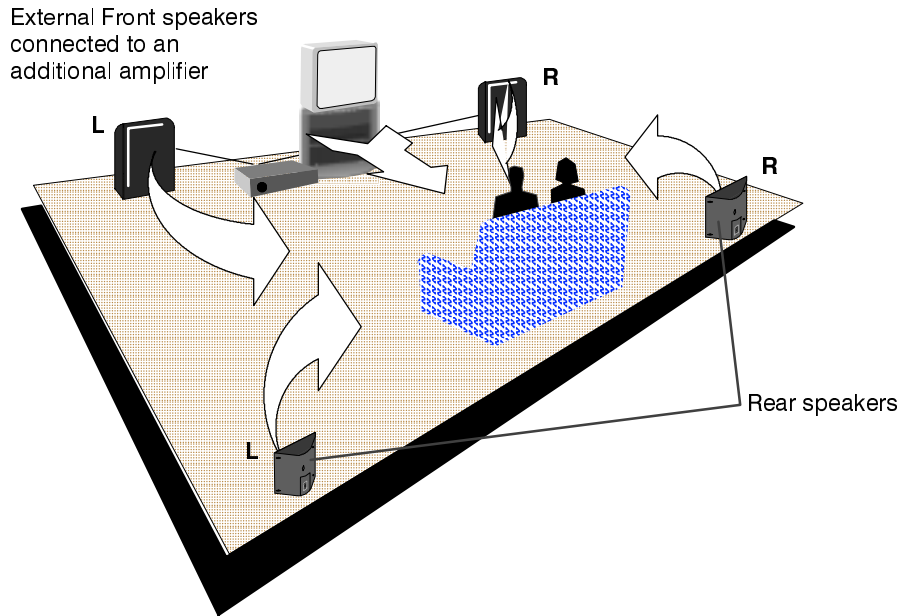
Additional equipment and cables shown are not supplied with this TV set.
Do not connect a computer with TTL output (5V) to this set.

Audio out using external amplifiers and speakers

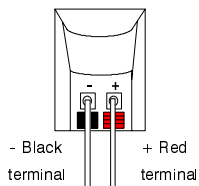
The **Audio Out** sockets on the rear of the TV allow you to create your own custom sound output system using additional external amplifiers and speakers. You may decide, for example, to use an external amplifier and speakers for the Front surround output.

Utilising an existing stereo hi-fi system comprising one amplifier, connected to the **FRONT DOLBY SURROUND OUT** sockets and two speakers to allow separate front left and right channels.

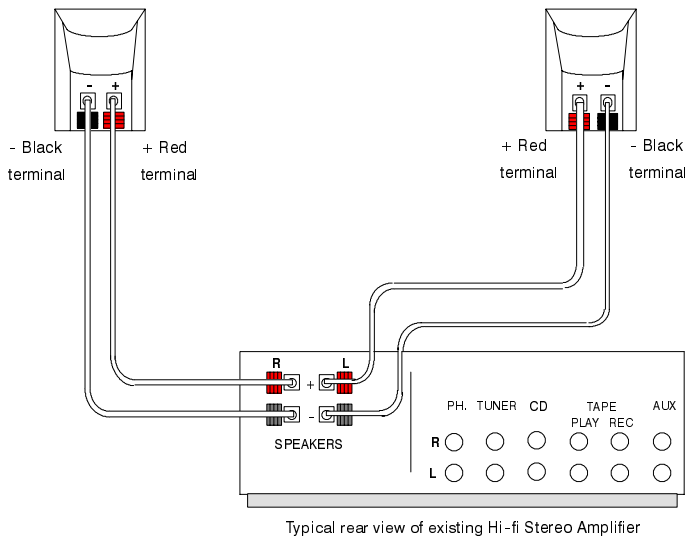
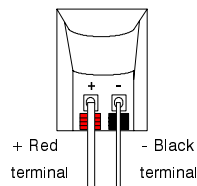
The internal speaker can be switched off in the Surround menu.



Existing hi-fi speaker used as front right surround speaker

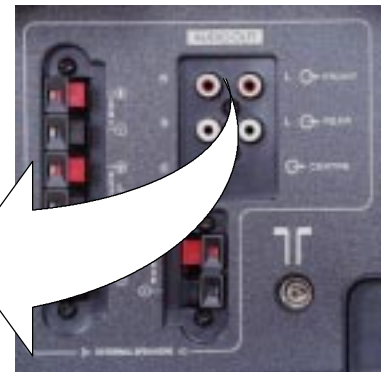


Existing hi-fi speaker used as front left surround speaker


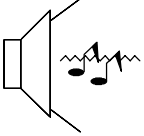
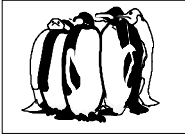
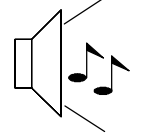
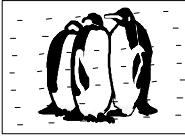
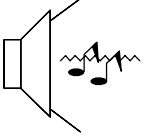
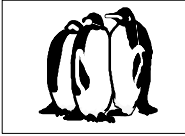
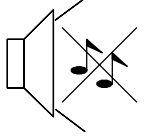

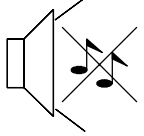

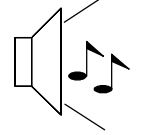

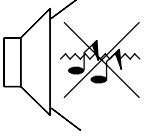

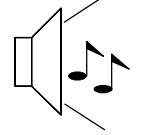

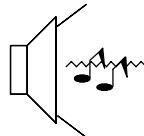


Output from the **FRONT AUDIO OUT** Sockets

Connect (R) Right to Right input (R) of AUX.
Connect (L) Left to Left input (L) of AUX.



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.

■ 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) |
| Headphone volume | Volume correction (in AV mode only) |
| AV Position | Contrast |
| Volume | Sharpness |
| NICAM | Aspect |
| Bass | Standby |
| Treble | Artificial Intelligence (AI) |
| Balance | Colour |
| Colour Balance | Brightness |
| Status | P-NR |
| Teletext mode | Decoder (AV2) |
| Surround mode | Speaker level setting |
| Speaker distance | |


■ 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.

SPECIFICATIONS

| | | TX-28LD4DP | TX-25LD4DP |
|---|---|---|---|
| Power Source | | 220 - 240V 50Hz A.C. | |
| Power Consumption | | 116W | 116W |
| Standby Consumption | | 1.8W | |
| Picture Tube Visible Diagonal | | 66 cm | 59 cm |
| Audio Output Music Power | | Front Left / Right 20W x 2, External Centre 20W, External Bass (3D subwoofer) 26W, Surround 15W x 2 | |
| Dimensions | H | 596.5 mm | 550.5 mm |
| | W | 778.0 mm | 730.0 mm |
| | D | 481.0 mm | 478.5 mm |
| Weight (Kg) | | 33 | 27 |
| Receiving Systems/ Band name | | PAL I PAL 525/60 M.NTSC NTSC (AV input only) | UHF E21-68 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, Q-Link | |
| Dolby Surround Out - Rear | | 5 x Dolby Surround Out RCA External Speaker connections - 2 x Rear, 1 x Centre, 1 x 3D subwoofer | |
| AV - Front | | AV3 - 2 x RCA Audio in, 1 x RCA Video in. | |

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

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