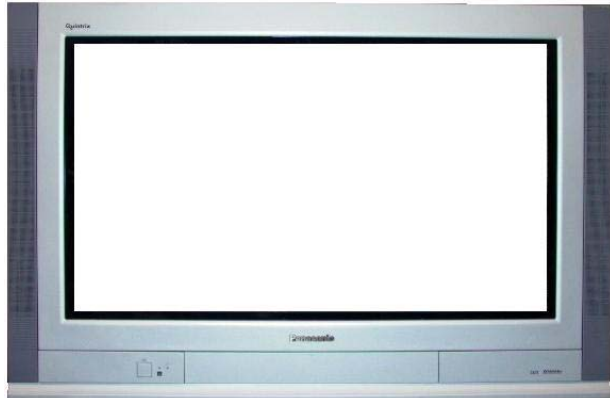# Panasonic

**Widescreen Stereo Colour Television
With Picture-in-picture andTeletext**

TX-86PW155A
TX-76PW155A

**Widescreen Stereo Colour Television
With Teletext**

TX-76PW60A
TX-66PW60A

Quintrix   **OWNER I.D.**   **100Hz**
                                              SUPER DIGITAL SCAN

T
[tau]
FLAT
DIGITAL

Operating Instructions

This instruction manual covers a range of
televisions. Your television may not have all
the functions described herein.
 Please read these operating instructions
completely before operating this set and
retain the booklet for future reference.

Panasonic
and the Environment

Reduce, reuse, recycle

Dear Panasonic Customer,

Welcome to the Panasonic family. We hope that you will have many years of enjoyment from your new Colour Television.

Thank you for choosing to buy this Panasonic Colour Television. It was assembled at our Panasonic Television factory in Penrith, Australia under an internationally accredited quality and environmental system. You can therefore be assured that you have purchased a quality product incorporating features to reduce environmental impacts.

As part of our commitment to conserving natural resources we provide the following information about the reuse, recycling and disposal of your packaging.

Cardboard

Cardboard comprises up to 75% of the packaging in your Panasonic TV and all of our cartons are manufactured with optimum levels of recycled fibre.

1.   Reuse
Cartons can be readily folded and packed flat for storage and made up when required for later use.

2.   Recycling
If you, or someone else has no further use for the carton, it can be flattened or cut up and placed into the recycle bin or service provided by your local council (applicable for most parts of Australia).
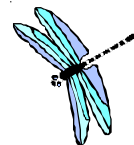
By recycling the cardboard you are benefiting the environment by reducing waste to landfill and reducing the dependence on virgin forest timbers for paper fibre.

Plastics

Panasonic is reducing the number of different plastics used in both the Television and its packaging.

Unfortunately you are unable to include the type of plastic used in Television packaging in the curbside-recycling program. Polystyrene foam and other plastic will need to be placed in your general waste bin.

About Panasonic
Panasonic Australia and Panasonic AVC Networks Australia Pty Ltd are signatories to the National Packaging Covenant. The Covenant is an agreement between Governments and member companies aimed at reducing the amount of waste going to landfill through Reducing, Reusing and Recycling. Panasonic and Panasonic AVC Networks Australia Pty Ltd contribute to the industry transitional funding arrangements to support curbside recycling in Australia.

Important Information

Warning

This television is very heavy (please see page 39). Most of the weight is at the front of the television. Although the television has been tilt tested and meets current Australian and International Standards, we recommend that great care be taken when positioning the television.
* Do not allow the front of the set to overhang the stand or cabinet.
* Make sure that the stand or cabinet is flat and does not lean forward.
* Do not allow anyone to climb or sit on the television.
* Do not place any heavy weights on the television.

Owner ID

This television lets you to prove ownership by letting you enter personal identification into it. The "Owner ID" function 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. Details of setting the Owner ID are on page 29.
Note: Do not record your PIN in this book.
As a further security precaution, please retain your proof of purchase along with these operating instructions. Space has been made available on page 36 of this instruction book for recording the Serial Number. The Serial Number can be found on the back cover of the set and on the packing carton.

"Progressive" Video Input

The TX-76PW60A and TX-66PW60A are designed for *"Interlaced"* signals only. Make sure that your Settop box, DVD player etc. is not switched to *"Progressive"*.
The TX-86PW155A and TX-76PW155A are designed to accept Interlaced and Progressive signals.

Programme Location Numbers

Throughout this booklet "Programme Location Numbers" are referred to. *These are memory locations into which you can tune television broadcast stations.* Any television station can be tuned into any Programme Location Number.

Picture Quality
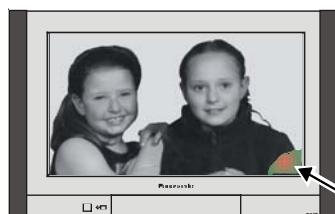
All televisions are affected by Magnetic Interference.
Magnetic interference may come from such things as unshielded motors, moving the TV while it is switched ON, turning off a vacuum cleaner too close to the TV, lightning strikes nearby or many other things.
The interference shows up as *coloured patches* which appear while the TV is switched ON.

A typical result may look like the picture shown.

* Your Panasonic Television is designed to overcome this with the inclusion of a demagnetising (degaussing) function.
* To activate this feature, simply switch your Television OFF, or into Standby for 30 minutes and then switch it back ON.
* If the television is to be left unattended for extended periods (several days or more), turn the power off to the unit. DO NOT leave in Standby mode.
* This will ensure that you enjoy the picture clarity as it was meant to be.
* Refer to page 17 for operating instructions for the GEOMAGNETIC feature.

CONTENTS

CONTENTS

Getting Started

Connect the Aerial

The RF (Aerial) Input impedance of this television is 75Ω. If your aerial lead is 300Ω ribbon (two wires separated by a flat plastic strip) you will require a 300Ω/75Ω Balun (not supplied) in order to connect your aerial to the television.
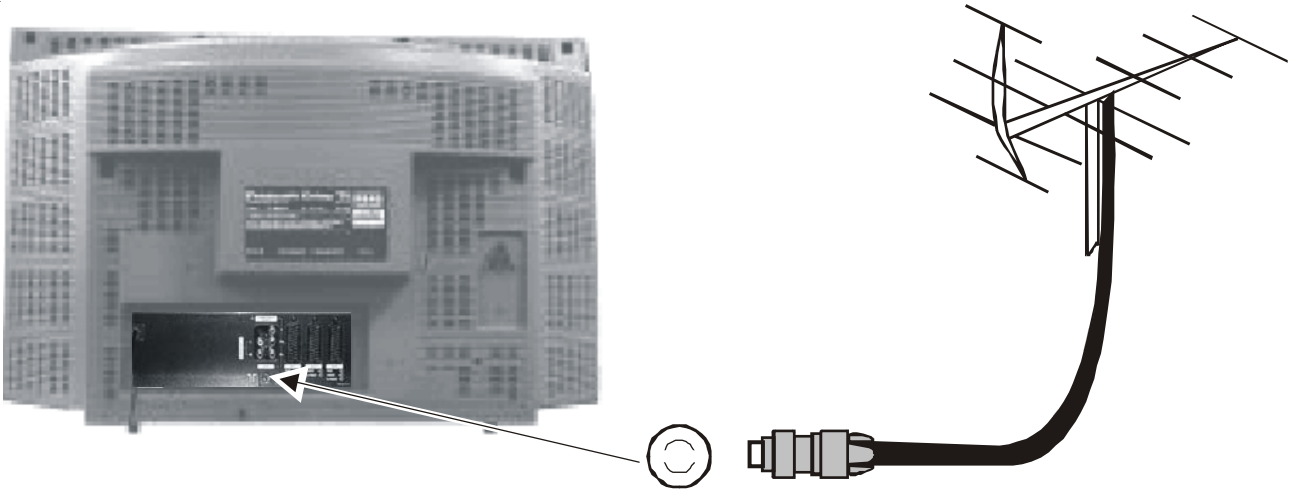
Note:
For your safety any external aerial should be installed by a reputable qualified installer and should comply with Australian Standard AS1417.1.
In New Zealand the installation should comply with International Standard IEC597-1.1.

Connect the Power Plug

The televisions are designed for the Australian Standard Mains Voltage of 240V 50Hz and the New Zealand Standard Mains Voltage of 230V 50Hz.

NOTE:
If the television is not going to be used for an extended period, remove the power plug from the wall outlet.

Turn on the Television

Push the Power Switch to turn the television ON. Sit back and enjoy your new Panasonic television.

Power Switch
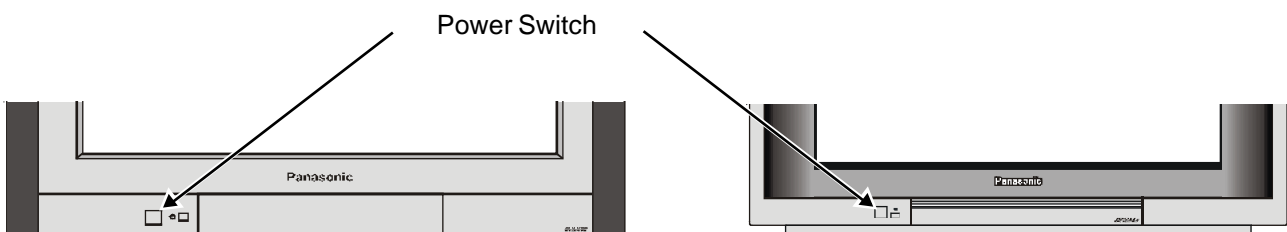
Open Battery Cover

Place your thumb on the battery cover triangle. Apply a slight downward pressure with the thumb and slide the cover back. This allows the cover to be removed.
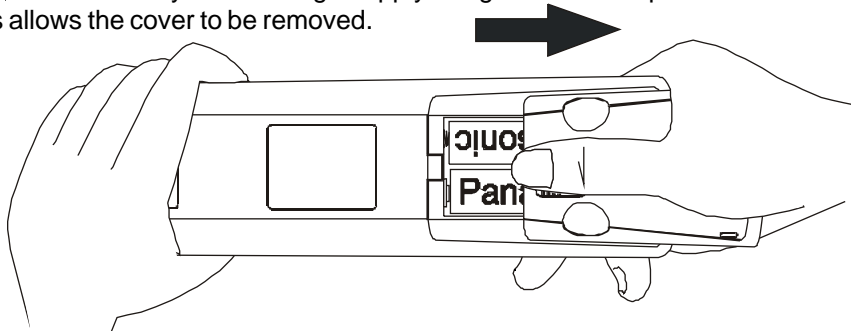
Insert Batteries

Insert the batteries ensuring the correct polarity. The polarity is identified by the " + " symbol on the battery and the " + " and " - " symbols on the battery compartment. The springs inside the battery compartment connect to the negative terminal of the battery.

Two "AA" size batteries
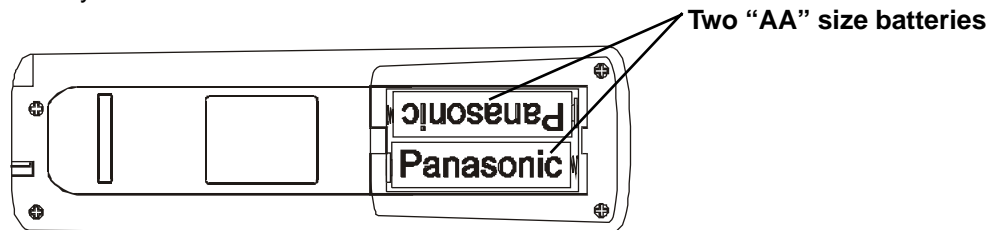
Replace Battery Cover

Fit the battery cover and slide it forward until it "clicks" into place.
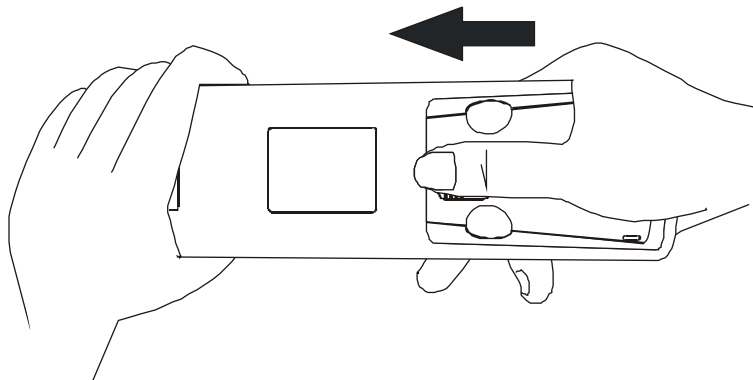
Battery Precautions

* **Do Not** use rechargeable batteries. Differences in size and performance may cause incorrect operation.
* **Do Not** mix battery types (Alkaline with zinc-carbon etc.)
* **Do Not** mix old and new batteries. Replace both batteries at the same time.
* **Do Not** attempt to recharge batteries.
* **Do Not** short circuit batteries.
* **Do Not** disassemble batteries.
* **Do Not** heat or burn batteries.

Using The On Screen Displays

Many features available on this TV can be accessed via the On Screen Display menu system. Use the remote control to access and adjust features as required.

PICTURE

Picture menu

Viewing mode	Dynamic
Contrast	
Brightness	
Colour	
Sharpness	
Colour balance	Normal
P-NR	Auto

SOUND

Sound menu

Volume	
Bass	
Treble	
Balance	
Headphone volume	
MPX	Stereo
Mode	Music
Ambience	On

SET UP

Setup menu

Av2 out	TV
Teletext	TOP
Off timer	Off
Flicker reduction	Off
Q-Link	On
Tuning menu	
Geomagnetic	
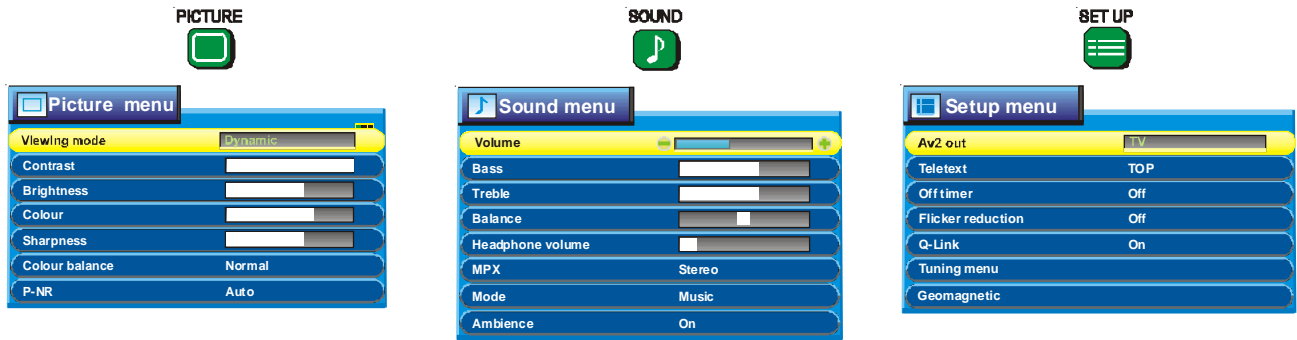
An on screen help box is displayed whenever a menu is displayed on the TV. This help box indicates which keys on the remote control are used to navigate the menu shown. See above for descriptions of button functions.

Note:
The help box is not shown in the menu pictures in this manual due to space limitations.

ON SCREEN HELP
Instruction box

1
CH44

Select
Access
Return
TV/AV — Exit
'STR' Button — Store

Picture menu

Viewing mode	Dynamic
Contrast	
Brightness	
Colour	
Sharpness	
Colour balance	Normal
P-NR	Auto
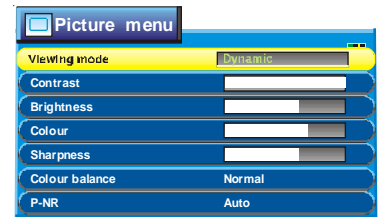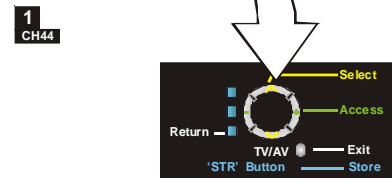
Help

Press the HELP (?) button

HELP
?

External connection
Select the External connection option.
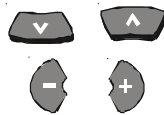
View connection information.

Menu demonstration
Select the Menu demo option.
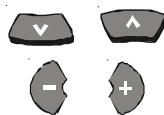
View the demonstration.

Help menu
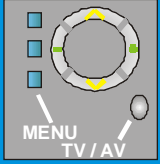
HOW TO USE THE MENUS

Press the MENU keys to open or close the menus

Use the ⌄⌄ keys on the remote to move between menu options

Use the ◁▷ keys to adjust the chosen option or to access the chosen menu

Press the TV/AV key to go back to watching TV

MENU
TV / AV

External Connection	Access
Menu demonstration	

Open the control panel door to gain access to the television Controls Push the door at the point marked △ to open. Push again to close.

STR   F   - / V   + / ∧ TV/AV

STR   F   - / V   + / ∧ TV/AV

Remote Control Buttons

Panasonic

Left labels	Right labels
Stand By	Mute
Picture	Programme Number Up
Sound	Volume Up
Set Up	Programme Number Down / Volume Down
Recall	TV / AV
	Coloured Buttons. Used for Aspect Functions, AV Selection Teletext Functions
Direct TV Rec	Still
Ambience	Direct Programme Numbers
Aspect	
Multi Window *	Two Digit Programme Numbers
Channel	
Normalisation	
Store	Help
Door	

PICTURE

SOUND

SET UP

TV/TEXT

DIRECT TV REC

ASPECT

MULTI WINDOW

F.P. INDEX HOLD

STILL

VCR

DVD

REC — VCR

STR HELP

* This button is not on the rmote control for the TX-76PW60A or the TX-66PW60A.
For details of TELETEXT Operation remote control operation, please refer to page 20.
For details of VCR and DVD player remote control operation, please refer to page 30.

Television Control Panel Buttons

BUTTON   WHAT IT DOES

TX-86PW155A   TX-76PW60A
TX-76PW155A   TX-66PW60A

STR
This button is used to store tuning information and other function settings. It is also used to start the menu demonstration.

F
The F button is used to select the on screen display functions. Press the button to select the following functions sequentially.

Volume → Contrast → Brightness → Colour → Sharpness → Tint → Bass → Treble → Balance → Tuning mode → Geomagnetic → (back to Volume)
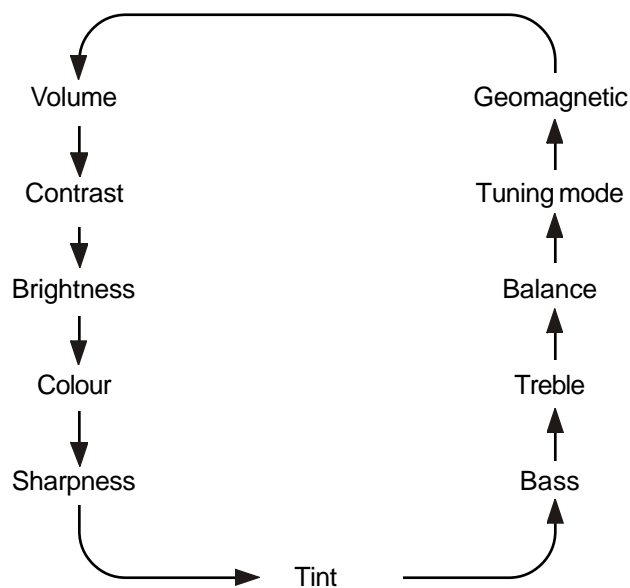
Notes:

Tint:	Only in AV Mode when receiving NTSC signals.
Tuning mode:	Not displayed when in AV mode.

- / V
This button is used to select the next lower programme number.
It is also used with the F button to adjust volume and other function settings.

+ / ∧
This button is used to select the next higher programme number.
It is also used with the F button to adjust volume and other function settings.

TV / AV
This button is used to switch between the TV mode and the four AV modes.

Please refer to drawing on Page 9 for location of Remote Control Buttons.

BUTTON   WHAT IT DOES

STANDBY

The remote control button is used to turn the television into Standby mode. When the television is in Stand-By it is possible to turn it back on by pressing this remote control Power Button, the Programme Number UP or DOWN Button (front panel or remote control) or any of the direct Programme Number Buttons.

PICTURE

This button is used to select the picture menu. Please refer to page 14 for detailed operating instructions.

SOUND

This button is used to select the sound menu. Please refer to page 15 for detailed operating instructions.

SET UP

This button is used to select the set up menu. Please refer to page 16 for detailed operating instructions.

RECALL

Pressing this button will display all current active functions. Pressing the button again cancels the recall function and removes the text being displayed on the screen. If the button is not pressed within about 2 seconds it automatically switches to display the Programme Number or the AV Number and the Off-Timer setting. Pressing the button again cancels the recall function and removes the text being displayed on the screen.

The recall button also allows you to change channel. The coloured buttons are used to select the channel range.

VCR - > 24	25 - > 49	50 - > 74	75 - > 99

Use the UP and DOWN buttons to highlight the channel you want and press the Blue button. The TV will switch to the selected channel. Use the Red and Green buttons to select a different range of channels.

Page -	Page +		OK

DIRECT TV RECORD

Allows immediate recording of the programme currently on the screen. (This function only works with a "Q-Link" compatible video recorder. See page 17.

AMBIENCE

This button switches the ambience (surround sound) on and off.

ASPECT

This button is used to move through the different aspect options of AUTO, 16:9, 14:9, 4:3, Zoom 1, Zoom 2, Zoom 3. Please refer to page 19.

C (DIRECT CHANNEL SELECTION)

To directly access broadcast channel numbers, press the C Button followed by the two digits required (e.g. C02, C28 etc).

Please refer to drawing on Page 9 for location of Remote Control Buttons.

Remote Control Television Operation

BUTTON	WHAT IT DOES

MULTI WINDOW (TX-86PW155A & TX-76PW155A only)

This option allows you to watch:
* 	a television picture and an AV picture at the same time, or
* 	two AV pictures at the same time.

Pressing this button will access the Picture in Picture options. You can choose between normal, PIP (Picture In Picture) or PAP (Picture And Picture).

The Multipip function does not operate when you are using a Progressive signal. If you are already in Multipip mode and you select an AV input with a Progressive signal the message "progressive input" will be displayed.

PIP (Picture In Picture) Mode
Allows a small picture to be viewed inside the main picture.
The red button allows you to place the small picture in any corner of the main picture.
PIP is only available in widescreen modes.
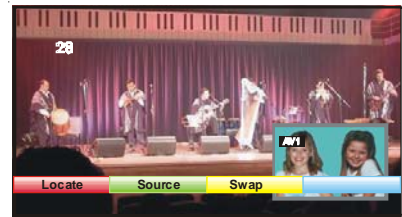
POP (Picture Out of Picture) Mode
Allows a small picture to be shown alongside the main picture.
POP is only available in 4:3 mode.
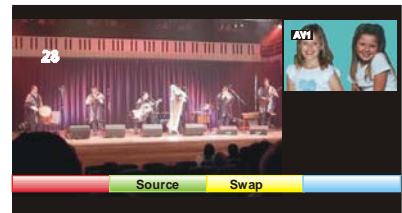
PAP (Picture And Picture) Mode
Allows two equal sized pictures to be viewed at the same time. The pictures will be shown side by side.
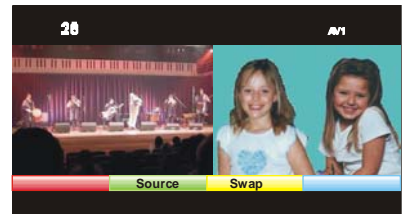
The green button allows you to change the sub picture.
The Yellow button lets you swap between the two pictures.

Changing channels in MULTI WINDOW mode
When the On-Screen display (coloured boxes) is ON, the sub picture can be changed. Use the Green button to switch between each of the 4 AV inputs and the RF input.
When the On-Screen display (coloured boxes) is OFF, the main picture can be changed. Use the normal programme or AV select buttons.

NORMALISATION
The Normalisation Button is used to reset the television picture and sound settings to factory set levels. Make sure that the Picture and Sound Menus not displayed when the N Button is pressed.

STR
The STR (Store) button is used with a number of features to store settings after adjustments have been made or options have been set. It is also used in TELETEXT and tuning functions.

Please refer to drawing on Page 9 for location of Remote Control Buttons.

BUTTON   WHAT IT DOES

HELP
Pressing this button displays on screen instructions on how to adjust various settings and how to connect external equipment. Press the HELP button and select one of the options. Please refer to page 13.

SOUND MUTE
Pressing this button reduces the sound from the television to nil. Pressing the button again returns the sound to the original setting. Pressing the Volume Up (+) or Down (-) will also restore the volume level setting.

PROGRAMME NUMBER UP AND DOWN
Pressing this button selects the next higher (∧) or lower (∨) Programme Number in sequence.

VOLUME DOWN AND UP
This button is used to increase (+) or decrease (-) the volume output level from the television.

TV / AV
Pressing the TV/AV Button will cycle between TV, the current AV Input and back to TV. While the AV indicator is still on screen the different AV inputs can be selected using the coloured buttons.

COLOURED BUTTONS
These buttons are used for:
-    selecting different aspect ratios
-    selecting different AV inputs
-    teletext functions

STILL
Press this button to freeze the picture on the screen. Press it again to return to normal viewing.
If Multi Pip has been selected, pressing the Still button once will freeze the main picture while the sub picture remains normal. Pressing the Still button again will freeze the sub picture while the main picture returns to normal. Pressing the Still button for a third time will return both pictures to normal.

DIRECT PROGRAMME NUMBER SELECTION
Single Digit Programme Numbers (0 to 9) can be accessed directly by pressing the corresponding number on the Remote Control Transmitter.

TWO DIGIT PROGRAMME NUMBER SELECTION
To directly access Programme Numbers 10 to 99, press the "- / - -" Button followed by the two digits required. For example, to select Programme Number 12:
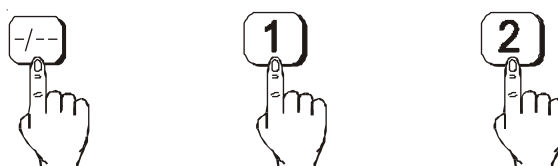
Please refer to drawing on Page 9 for location of Remote Control Buttons.

Picture Menu
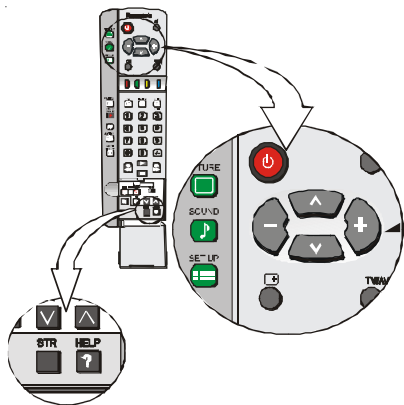
Push the PICTURE button.

Select the option.

Adjust the chosen option.

Push the TV/AV at any time to return to watching TV.

Pushing the STR button after making an adjustment will store the new setting as the default value, replacing the factory setting.

Picture menu

Viewing mode	Dynamic
Contrast	
Brightness	
Colour	
Sharpness	
Colour balance	Normal
P-NR	Auto
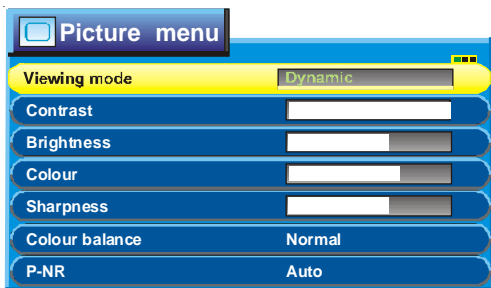
Viewing mode

The Viewing mode control allows you to change the Picture setting between Dynamic, Normal and Cinema.

Dynamic   For viewing in brightly lit rooms. This menu selects higher than normal levels of Brightness and Contrast.

Normal   For viewing in normal (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.

Cinema   For viewing in a dark room. This menu selects reduced levels of Brightness and Contrast.

Contrast
Brightness
Colour
Sharpness
Tint (AV only)

Contrast

Increase or decrease the level of these options to suit your personal preference.

Colour Balance

The Colour balance control allows you to change the White balance setting between Standard, Warm and Cool.

P-NR

The P-NR (Picture Noise Reduction) system is designed to reduce picture noise during poor quality reception conditions. Pushing the left or right buttons will change the setting between Off, Strong, Weak and Auto.

Notes:
1. You can change the level for each function (Contrast, Brightness, Colour, Sharpness and Tint) for each picture menu option.
2. Picture menu levels can be set for TV, AV1, AV2, AV3 and AV4 modes.
3. TINT only appears when the TV is receiving NTSC signals and the television is in the AV mode.
4. In TELETEXT mode, only the CONTRAST will be displayed.

Normalisation N

Pressing the Normal (N) Button on the remote control, will return all picture settings to the factory preset levels. This is called "Normalisation".
Normalisation *will only* occur if the Picture Menu is not displayed when the Normal (N) Button is pressed.

14
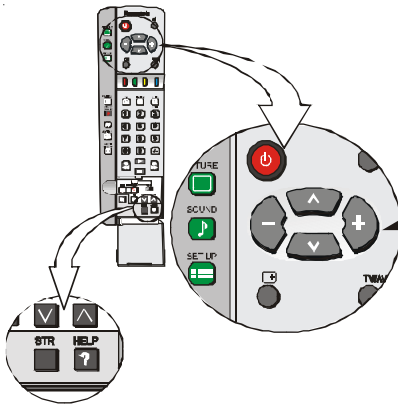
Push the SOUND button

Move to the option

Adjust the chosen option

Push TV/AV at any time to return to watching TV.

Push the STR button after making an adjustment will store the new setting as the default value, replacing the factory setting.

| ♪ Sound menu	
Volume	
Bass	
Treble	
Balance	
Headphone volume	
MPX	Stereo
Mode	Music
Ambience	On

Volume	Adjusts the output volume.
Bass	Used to boost or cut low frequency sounds.
Treble	Used to boost or cut high frequency sounds.
Balance	Adjusts the sound balance between the left and right speakers.
Headphone Volume	Adjust for output volume for the headphones. This volume is independant of the television speakers so that everyone can enjoy listening at a level comfortable for them. When in PiP, the sound corresponds to the main picture.
MPX (RF Mode only)	Switches between Stereo and Mono. During times of poor reception it is recommended that the MPX be switched to mono.
Mode	Switches between MUSIC and SPEECH settings. MUSIC Amplifies the low frequencies and outputs optimum sound. Used for music programmes, video clips, action movies etc. SPEECH Human voices (middle pitch sounds) will be more clear. Used for News broadcasts etc.
Ambience	Turns the ambience (surround sound) On or Off.
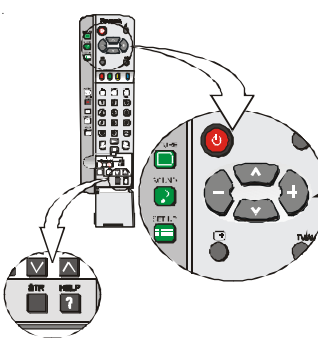
Notes:
1. You can change the level for each function (Bass and Treble) for each sound mode option.
2. Sound menu levels can be set for TV, AV1, AV2, AV3 and AV4 modes.

Normalisation [N]

Pressing the Normal ([N]) Button on the remote control, will return all sound settings to the factory preset levels. This is called "Normalisation".
Normalisation *will only* occur if the Sound Menu is not displayed when the Normal ([N]) Button is pressed.

Set Up Menu

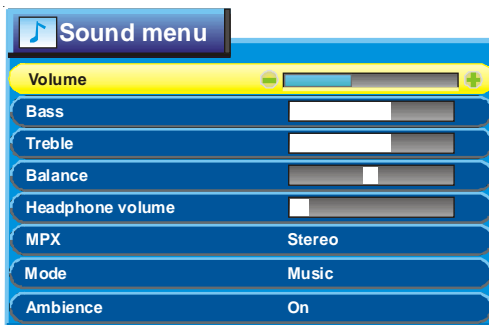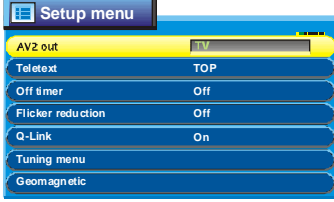Push the SETUP button
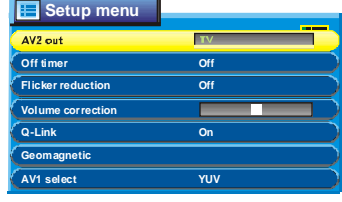
Move to the option

Adjust the chosen option

Push TV/AV at any time to return to watching TV.

Setup menu

AV2 out	TV
Teletext	TOP
Off timer	Off
Flicker reduction	Off
Q-Link	On
Tuning menu	
Geomagnetic	

RF Mode

Setup menu

AV2 out	TV
Off timer	Off
Flicker reduction	Off
Volume correction	
Q-Link	On
Geomagnetic	
AV1 select	YUV

AV Mode

AV2 out

AV2 out   TV

Allows you to select which audio / video source will be sent to the AV2 Scart output. You can choose between TV (current selected programme), AV1, AV3, AV4 or Monitor (whatever programme is being shown on the screen). YUV pictures are not available on AV2 out.

Teletext (RF Mode only)

Teletext   TOP

This control allows you to change between TOP (or FLOF) and List modes. TOP mode is the current preferred method in Australia.
FLOF mode is the current preferred method in New Zealand. FLOF is also known as FASTEXT.

Off timer

Off timer   Off

The Off-Timer turns the television off after a period of time chosen by you. The timer settings (in minutes) are OFF, 15, 30, 45, 60, 75, 90.

Flicker reduction

Flicker reduction   On

This activates motion compensation to smooth the image and get rid of unwanted picture movement.

Volume correction (AV Mode only)

Volume correction

This feature allows you to adjust the input level from your DVD player etc. to match the sound level of normal TV reception. You can set the input level for each AV input.

Q-Link

Q-Link   On

Allows you to turn the Q-Link system On or Off. Please refer to page 17.

Tuning menu (RF Mode only)

Tuning menu   Access

This provides access to many other features including tuning options and Owner ID. Please refer to page 23.

Geomagnetic

Geomagnetic   Access

If you notice a slight tilt in the picture or if there are coloured patches at the corners of the screen, use this feature to eliminate them.
Refer to page 18 for instructions on using the geomagnetic correction adjustment.

AV1 select (AV Mode only)

AV1 select   YUV

Allows you to select which video source to apply to the AV1 input. You can switch between Component Video (YUV) and RGB.

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

For Q-Link communication to work, the TV must be connected to a "Q-Link" compatible VCR 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 your VCR operating instruction book.

In order to make use of Q-Link, ensure that the Q-Link option is set to On in the SETUP menu:

Press the SETUP menu button

Move to Q-Link option

Confirm Q-Link option is set to On

Press the TV/AV button at any time to go back to watching TV.

Press the DIRECT TV REC button
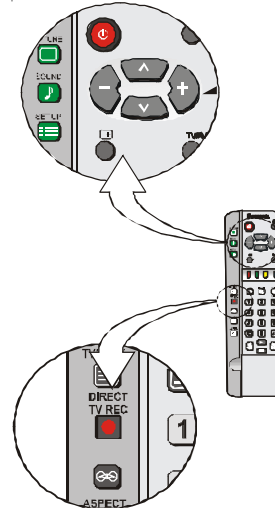
Notes:
If the VCR is off, it will automatically switch on when you press the DIRECT TV REC button.
To ensure correct recordings are made, the television and VCR should share tuning information.
Whenever the Auto setup function is used, tuning data will be downloaded to the VCR.
If at any time you wish to turn off the Q -Link feature, follow the above procedure to get to the Q-Link menu option, then set the option to Off.

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

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

This TV will also communicate with other VCRs that bear the following logos:
"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 your VCR operating instruction book.

Setup menu - Geomagnetic Correction

Magnetic interference may come from such things as unshielded motors, moving the TV while it is switched ON, turning off a vacuum cleaner too close to the TV, lightning strikes nearby or many other things. If geomagnetic changes cause colour patches on the screen switch your Television OFF for 30 minutes and then switch it back ON.

Slight tilting of the picture may be noticeable or coloured patches may sometimes appear at the corners of the screen (colour purity).

The Geomagnetic Correction feature can be used to eliminate some interference problems.

Adjustment for geomagnetic should be performed every time the location of the TV is changed.

In some cases colour patches will not be completely eliminated even after adjustment, particularly in ferroconcrete buildings and other structures susceptible to geomagnetic effects. In these cases the TV location will have to be changed.

Using the Front Panel

Push the F button repeatedly to access the Geomagnetic Correction Menu.

000

Geomagnetic correction

- ¦ +   : **Adjust tilt**
   F   : **To exit**

STR   F   - / V   + / ^   TV/AV
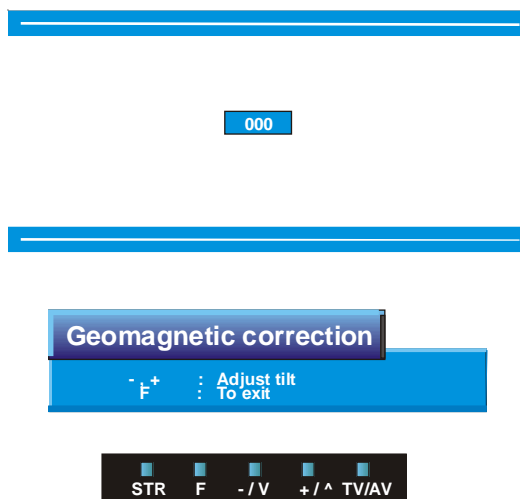
Push - / ∨ or + / ∧ to adjust the picture tilt or coloured patches as necessary. (The adjustment range is from -16 to +16).

Push the F button to return to normal viewing.

Using the Remote Control

Push the SET UP button.

Select the Geomagnetic Correction Menu.

Access the Geomagnetic Correction.
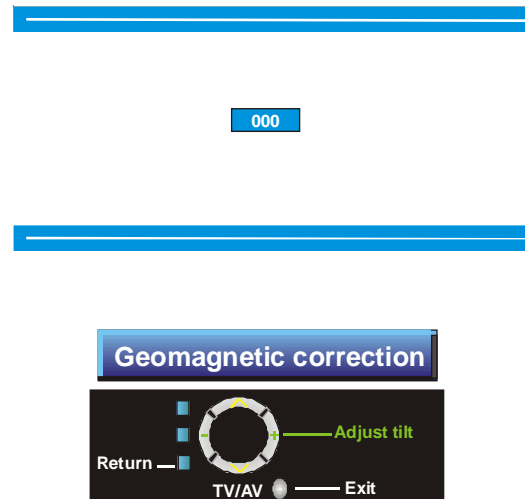
000

Geomagnetic correction

Adjust tilt

Return

TV/AV   Exit

Adjust the picture tilt or coloured patches as necessary. (The adjustment range is from -16 to +16).

Push the TV/AV button to return to normal viewing,

or

Push the SET UP button to return the TV to the Set Up Menu.
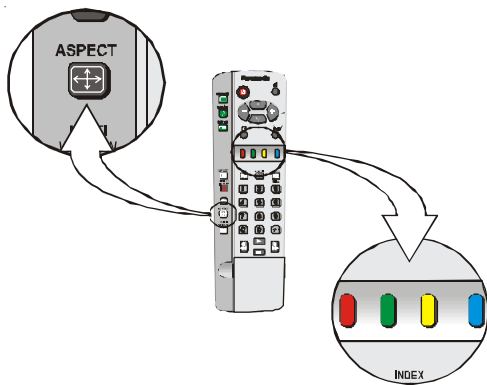
Press the Aspect button

Press Aspect button again

or

Press red or green
to change aspects.

Panasonic Auto
This option determines the best aspect ratio to use to fill your screen. If Auto detects a widescreen signal it switches into the appropriate 16:9 or 14:9 widescreen mode. A 4:3 picture will be stretched at the edges to fill the whole screen.

16:9
This option will display a true 16:9 (anamorphic) picture with no aspect distortion.

14:9
This option will display a 14:9 letterbox or 4:3 picture with no aspect distortion.
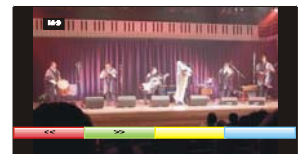
4:3
This option will display a standard 4:3 picture with no aspect distortion.
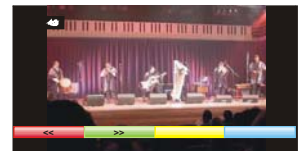
Zoom 1
This option will display 16:9 letterbox or 4:3 pictures with no aspect distortion.

Zoom 2
This option will display 16:9 anamorphic letterbox pictures as a full screen display with no aspect distortion.
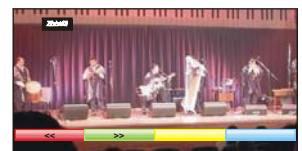
Zoom 3
This option will display 21:9 letterbox pictures as a full screen display with no aspect distortion.
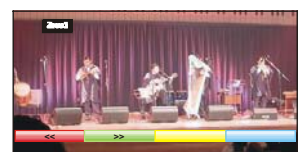
Notes:
- If, in Auto mode, you experience problems with the screen display size when playing back widescreen format recordings from your VCR then it is possible that the tracking control of your VCR requires adjustment (your VCR instruction book will contain adjustment details).
- The widescreen aspect 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.

Teletext Operation

Teletext is only available on certain broadcast channels. The time taken to display the pages and sub-pages is set by the teletext transmitter and not by the television.
Teletext is also used for Closed Captioning of television programmes. Captions are used by people who are deaf, hearing impaired, learning English or viewing in a noisy environment.
Captions differ from foreign language subtitles in that they are coloured and positioned to indicate who is speaking, and provide information on music and sound effects which may be crucial to the understanding of the program. Closed captions can be found on Teletext Page 801.

TOP (Table Of Pages) mode
In TOPTEXT mode, the red button moves to the previous page number and the green button moves to the next page number. The yellow and blue buttons correspond to different subjects. These subjects can be accessed by Pushing the coloured button. This is the current preferred method of operation in Australia.

FLOF (Full Level One Features) mode
In FLOF mode, four differently coloured subjects are displayed at the bottom of the screen. To access more information about one of these subjects, push the corresponding colour coded button on the remote control. This is the current preferred method of operation in New Zealand.

List mode
In List mode, four different coloured page numbers are shown at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. These coloured page numbers correspond to the colour coded buttons on the remote control.

Please refer to page 16 for instructions on how to change modes between TOP, FLOF and List.
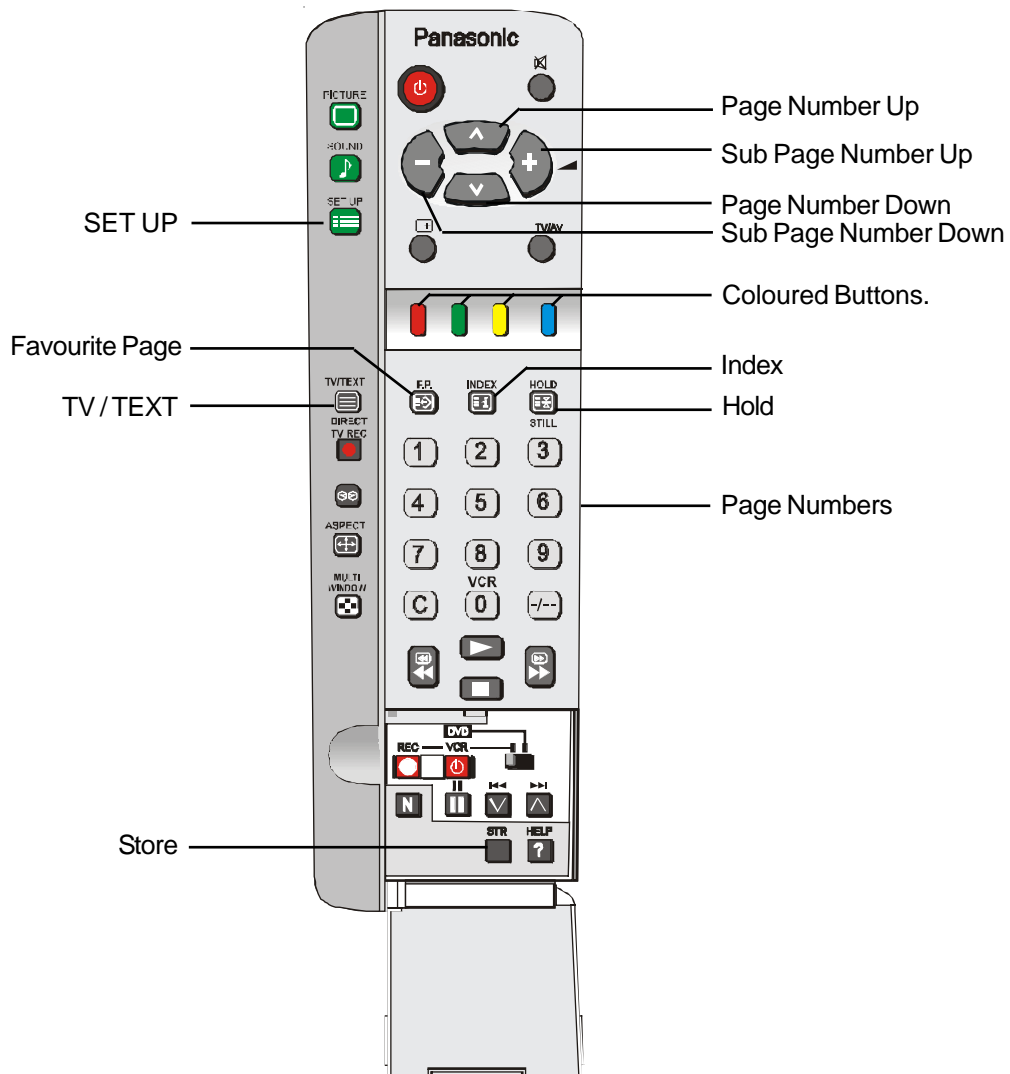
BUTTON   WHAT IT DOES

F.P. (FAVOURITE PAGE)

This feature will store a favourite page in the TV memory.
1.   The TV must be in the LIST mode, receiving a teletext broadcast and the programme number must be between 1 and 25.
2.   Push the Blue button.
3.   Select the page number.
4.   Push and hold the STR button.
5.   The page number is now stored.
Push F.P. to recall this page.

SET UP

Used with the Coloured buttons to access the Reveal, Full / Top / Bottom, Display Cancel and Time Text functions.
Push the TV/TEXT Button 📄 to return to normal television viewing.

TV / TEXT

Pressing this button switches the screen between:
-    TELETEXT
-    Television picture on the left of the screen and the TELETEXT on the right of the screen.
-    Normal television viewing.
When TEXT is on, the sound from the broadcast channel is still audible. To adjust the volume press the Sound 🎵 button or the ⊟F button to display the volume indicator. The volume can then be adjusted normally.

STR

This button is used to store page numbers into the coloured buttons or the Favourite Page button. The STR button is located behind the remote control door.

PAGE NUMBERS UP AND DOWN

These buttons are used to move to higher or lower page numbers.

SUB PAGE NUMBERS DOWN AND UP

These buttons are used to move to higher or lower sub page numbers.

COLOURED BUTTONS

These buttons refer to different page numbers in LIST mode and different subjects in TOP mode.

INDEX

Pressing this button returns you to the main index page.

HOLD

Some TELETEXT pages contain multi-page information. Use this button to stop the page changing. Push it again to release the hold.

Please refer to drawing on Page 20 for location of Teletext Control Buttons.

TELETEXT Operation

⓪ ~ ⑨ | **PAGE NUMBER BUTTONS**
These buttons allow you to directly enter the page number that you want to view.

REVEAL
Some Text pages contain concealed information, e.g. the solution to a puzzle. To reveal this information Push the Set Up ▣ button followed by the Red button. To hide the information, Push the Red button again.

F/T/B
(FULL / TOP / BOTTOM)
This button is used when difficulty is experienced in reading text on the screen. To operate the F/T/B Push the Set Up ▣ button followed by the Green button. Operating the F/T/B expands and displays the upper half of the screen. Operating the F/T/B Button again expands and displays the lower half of the screen. Operating the F/T/B Button a third time returns the display to normal condition.

DISPLAY CANCEL
If you wish to watch the television while you are waiting for a page to be transmitted you can use the DISPLAY CANCEL function.

This function is not available (or necessary) when the picture and the TELETEXT are both being displayed side by side.

Push the Set Up ▣ button followed by the Yellow button to view the TV picture while waiting for a teletext page to be transmitted. When found, the page number will be displayed at the top left of the screen.

News Flash or Other Updates
When a news flash page (or another page which provides regular updates) has been selected Push the Set Up ▣ button followed by the Yellow button to view the TV picture. When a news flash is received the page number will be displayed on the screen. Push the Yellow button to display the news flash.

TIME TEXT *
When a Page has more than one screen (sub-page) of information, you may have to wait for some time before the sub-page you require becomes available. With this function it is possible to enter the number of the desired sub-page.
1. Select Text Mode and choose a page.
2. Push the Set Up ▣ button followed by the Blue button. T**** will be displayed at the top left of the screen.
3. Enter the sub page number before the T**** disappears. The sub-page number must be entered as a four digit number e.g. sub-page 3 would be entered as 0003. (If in LIST mode, a "T" will appear in the current box at the bottom).
4. Push the Yellow button to view the TV picture while waiting for the subpage to be found. (This function is not necessary when the picture and the TELETEXT are both being displayed side by side).
5. When found, Push the Yellow button

To clear the page perform one of the following:
- Push the Set Up ▣ button.
- Select a new page number.
- Push the TV/TEXT Button ▤ to return to normal television viewing.

* Note: TIME TEXT is not currently available in Australia.

Push the SETUP button
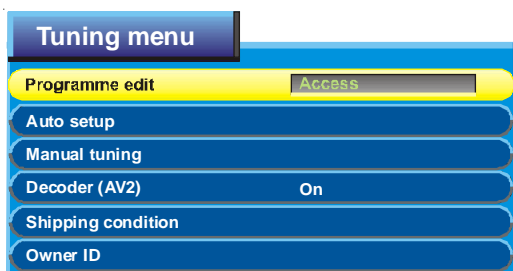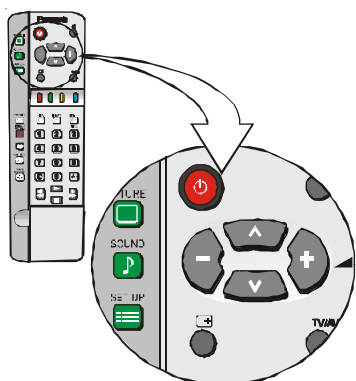
Move to the tuning option

Access the tuning option

Move to the required option

Choose the selected option

Adjust or access the selected option

Push TV/AV at any time to return to watching TV.

Tuning menu

Programme edit	Access
Auto setup	
Manual tuning	
Decoder (AV2)	On
Shipping condition	
Owner ID	

Programme edit

Programme edit   Access

This option allows you to add, delete, tune, move and name your programmes. Please refer to page 24.

Auto setup

Auto setup   Access

This television has been factory tuned. Use the automatic tuning procedure only if you wish to reset ALL Programme Location Numbers. Please refer to page 26.

Manual tuning

Manual tuning   Access

If you only want to retune one or two Programme Location Numbers. Please refer to "Manual tuning" on page 27.

Decoder (AV2)

Decoder (AV2)   On

This option is used when a decoder is connected via AV2. Store the setting as On so that every time this programme position is selected, the TV software is set to handle the decoded information (this is important if your decoder unit is connected to AV2 via a Q-LinkVCR).

Shipping condition

Shipping condition   Access

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. Please refer to page 28.

Owner ID

Owner ID   Access

Owner ID 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. Please refer to page 29.

Tuning Menu - Programme edit

Press the SETUP menu button

SET UP

Move to Tuning menu option

Access Tuning menu

Move to Programme edit option

Access Programme edit

Move to chosen programme position.
Make required change.

Programme edit

Prog.	Chan.	Name	Lock
1 :	--		Off
2 :	CH02	ABC	Off
3 :	--		Off
4 :	--		Off
5 :	--		Off

Delete	Add	Move	Download

ABCDEFGHIJKLMNOPQRST
UVWXYZ + - . 0123456789

Press the TV/AV button at any time to go back to watching TV

TV/AV

Pressing the STR button after making an adjustment stores any changes made.

STR

Adding / deleting a programme channel

Make sure the cursor is in the Prog. column

Press the green button to add a programme channel to
the programme position, or the red button to delete one

Programme edit

Prog.	Chan.	Name	Lock
1 :	--		Off
2 :	CH02	ABC	Off
3 :	--		Off
4 :	--		Off
5 :	--		Off

Press the same button again to confirm your decision

Moving a programme channel

Make sure the cursor is in the Prog. column

Press the yellow button

Choose the new position for the programme channel

Press the yellow button again to confirm your decision

Tuning a programme channel

Move to the Chan. column

Increase or decrease the programme channel number (you will see the TV retune to the new number as you change it) or use the C button for Direct Channel Access (see page 11)

Press STR to store this change

Renaming a programme channel

Move to the Name column

Choose the new character. The box at the bottom of the screen shows the character currently selected.

Move to the next character position

Continue until renaming is done

Press STR to store this change

Locking a programme channel

You may wish to lock a channel to prevent access to it.

Move to the Lock column

Choose between Lock On or Lock Off

Press STR to store this change

Note: When a programme number is locked direct channel access using the C and number buttons on the remote control is disabled.

Tuning Menu - Auto setup

This television has been factory tuned to all Australian major city channels. Use the automatic tuning procedure only if you wish to reset ALL Programme Location Numbers. Refer to "Manual tuning" on page 27 if you only want to retune one or two Programme Location Numbers.

Push the Set Up button.

Move to the Tuning Menu.

Access the Tuning Menu.

Move to Auto setup.

Access Auto setup.

Confirm Auto setup.

NOTE: If you procede with the next step all tuning data will be erased (all stations and their positions stored in your TV's memory will be wiped out so that the new settings can be stored.
If you exit the procedure after this point and before Auto setup is complete, no station information will be stored. You will have to restart and complete the Auto setup so that the TV can be retuned.
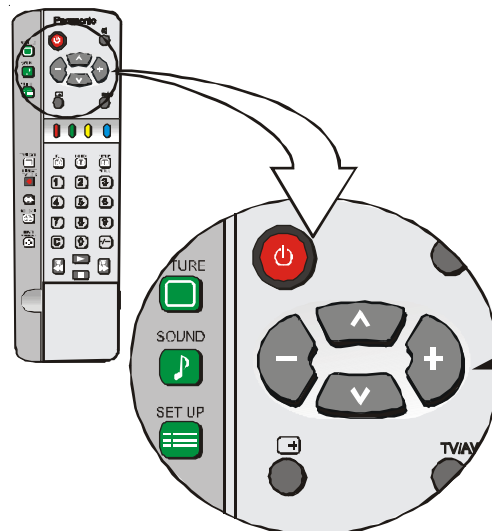
WARNING

All current tuning
Data will be erased

STR	:	**Start Auto Setup**
TV / AV	:	**To exit**
SETUP	:	**Return to tuning menu**

Start the Auto setup
(or exit the Auto Setup Menu)

The television will search for, locate, store and sort into order your local stations.

AUTO SETUP IN PROGRESS

SEARCHING : *PLEASE WAIT*

Stored CH28 SBS

| 02 | 78.01 | 41 |

SETUP	:	**Return to tuning menu**
TV/AV	:	**To exit**
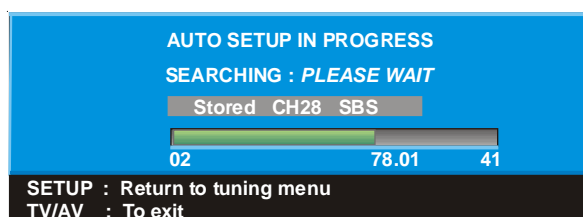
If a compatible VCR is connected via the AV2 socket programme data will be sent to the VCR via the Q-Link. Please refer to page 17

Once this operation is completed the TV will display the programme stored in programme location 1.

Pushing the ⬡ button at any time will stop the Auto setup and return you to normal viewing (Please read the **Note** in the above procedure).

If the television is unable to find any channels the following message will be displayed.

No stations found
Please insert the aerial

Tuning Menu - Manual tuning

This Television has been factory tuned to all the Australian major city channels. Use this tuning procedure only if you wish to reset individual Programme Numbers. The television should be switched ON and the TV/AV Switch set to TV.

Using the Remote Control

Push the Set Up button.

Move to the Tuning Menu.

Access the Tuning Menu.

Move to Manual tuning.

Access Manual tuning.

Select the programme location number to tune.

Start the search. The television will automatically search for the next broadcast signal. As each station is found the search will stop. If you do not want this station restart the search.

Store the selected station. The programme location number will flash.

Push TV/AV button to return the television to normal operation.

Using the Front Panel

Press the "F" button and move to the Tuning Menu.

Press the "- / ∨" or "+ / ∧" button to access Manual tuning.

Press the TV/AV button to switch to Change programme.

Press the "- / ∨" or "+ / ∧" button to select the programme location number to tune.

Press the "TV/AV" button to switch to Search.

Press the "- / ∨" or "+ / ∧" button to start the search. The television will automatically search for the next broadcast signal. As each station is found the search will stop. If you do not want this station restart the search.

Press the "STR" button to store the selected station. The programme location number will flash.

Push the "F" button to return the television to normal operation.

Tuning the Television to a VCR

Turn the VCR On and either start a known tape playing or set the VCR Test Signal, if fitted, to On (refer to the VCR operating instructions).
Follow the Manual tuning procedure above. The television will treat the VCR as if it was a normal television broadcast station.

NOTES:
The antenna lead must be connected to the VCR and the VCR RF-Out must be connected to the TV RF-In. Please refer to page 33.
The picture and sound quality are usually much better if the VCR is connected using the AV Terminals. Please refer to page 33 or 34.

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.

The Shipping condition menu will reset all data, clearing all tuning information and resetting all control levels back to factory settings.

Open the Setup menu	**SET UP**
Move to Tuning menu	∨ ∧
Access Tuning menu	− +
Move to Shipping condition	∨ ∧
Access Shipping condition	− + **Shipping condition**　　　　**Access**

NOTE: If you procede with the next step all tuning data will be erased (all stations and their positions stored in your TV's memory will be wiped out so that the new settings can be stored. All picture and sound levels will be returned to factory settings. If you exit the procedure after this point and before Shipping condition is complete, no station information will be stored. You will have to restart and complete the Auto setup so that the TV can be retuned. You can exit the Shipping condition setting at any time by pressing TV/AV to exit or SETUP to return to the tuning menu.*

Press STR to start

STR

Shipping condition

All tuning data will be erased

You will be given a warning message followed by two chances to change your mind.

Each time that you are asked, "Are you sure?",

Are you sure ?

press STR to confirm,
(or exit the Shipping condition)

STR

There is a short delay before the operation starts.
"OK" will be displayed on the screen.

OK

You will be taken to the Auto setup option. (See page 26). You can either start the Auto setup or change the country code.
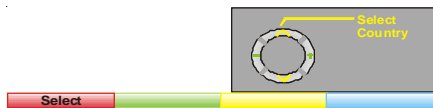
Country select

If you turn the television off and then back on instead of starting the Auto setup, you will be given the opportunity to change the country code.

Select the country. You can choose between Australia and New Zealand.

∨ ∧

Country
Australia
New Zealand

Apply the country select

Select

Select

You will be taken to the Auto setup option. (See page 26).

Owner ID 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.

Open the Setup menu
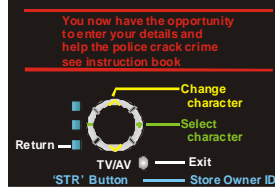
Move to Tuning menu
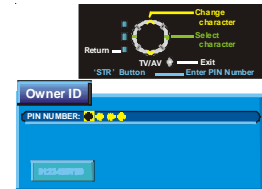
Access Tuning menu

Move to Owner ID

Access Owner ID

This is the message you will see if you have not already set your ID details.

This is the message you will see if you have already set your ID details.

If the Owner ID has previously been set, enter your PIN followed by 'STR' to proceed, this will take you to the NAME option.

If your Owner ID has not been set you can enter a PIN (using 0 to 9 on the remote control) or the Up / Down buttons.

You will be taken automatically to the NAME line. If not, move to the NAME line.

Enter your name. Use the left and right buttons to move from character to character.

Use the Up and Down buttons to change the character.

Move to HOUSE NO.

Enter your House Number (or other identification). Use the left and right buttons to move from character to character.

Use the Up and Down buttons to change the character.

Move to POSTCODE.

Enter your Postcode. Use the left and right buttons to move from character to character.

Use the Up and Down buttons to change the character.

Press STR to store your details.

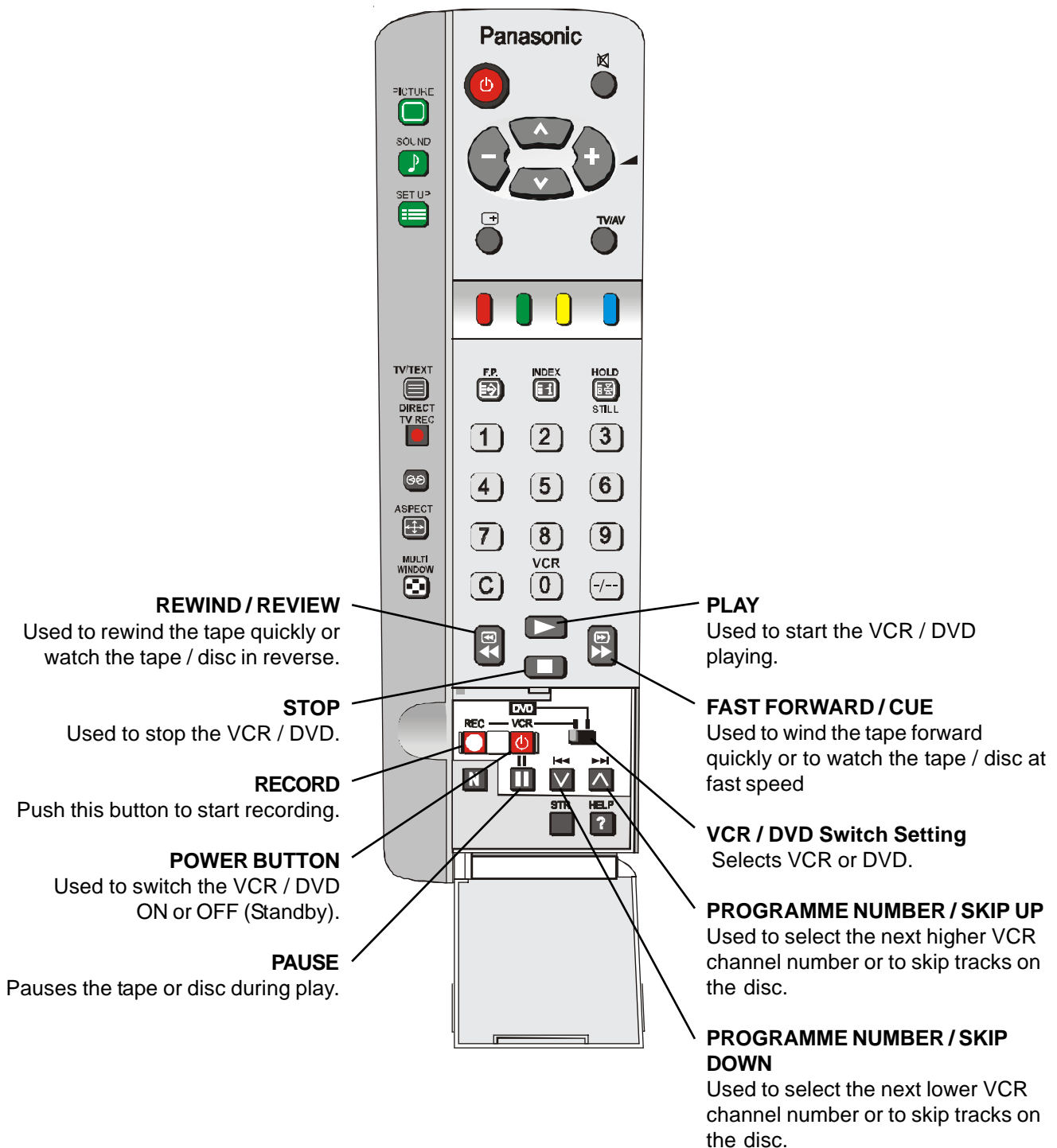You will be asked "Are you sure?"
Press STR to confirm the details.

Note: Pushing the TV/AV button at any time will return you to normal viewing without saving any of the changes you have made.

Remote Control VCR/DVD Operation

This remote control has been designed to work with a variety of Panasonic VCRs and DVD players.

REWIND / REVIEW
Used to rewind the tape quickly or watch the tape / disc in reverse.

STOP
Used to stop the VCR / DVD.

RECORD
Push this button to start recording.

POWER BUTTON
Used to switch the VCR / DVD ON or OFF (Standby).

PAUSE
Pauses the tape or disc during play.

PLAY
Used to start the VCR / DVD playing.

FAST FORWARD / CUE
Used to wind the tape forward quickly or to watch the tape / disc at fast speed

VCR / DVD Switch Setting
Selects VCR or DVD.

PROGRAMME NUMBER / SKIP UP
Used to select the next higher VCR channel number or to skip tracks on the disc.

PROGRAMME NUMBER / SKIP DOWN
Used to select the next lower VCR channel number or to skip tracks on the disc.

---

* WARNING:
Unauthorised recording of material from Television Broadcasts or from other video and/or audio sources may contravene copyright laws.

Front Panel Connections

Headphones

Use stereo headphones with 3.5mm Plug (Not included).

When a headphone plug is inserted into the headphone socket the internal speakers will still operate.

If someone has trouble hearing the television they can use the headphones and set the volume to a level they are comfortable with.

Headphones can also be used to listen in private and not disturb other people in the house. (When using the headphones for this purpose you must remember to turn the television volume down.)

Please refer to page 15 for headphone volume adjustment.

The normal television sound controls (volume, bass, treble, balance or sound mode) have no effect on the headphone sound.

AV Equipment

VCRs, cameras, games and other video sources can be connected to the television through the front AV input terminals.

The front panels are particularly useful for temporary connections. For permanent connections we recommend that you use the rear inputs.
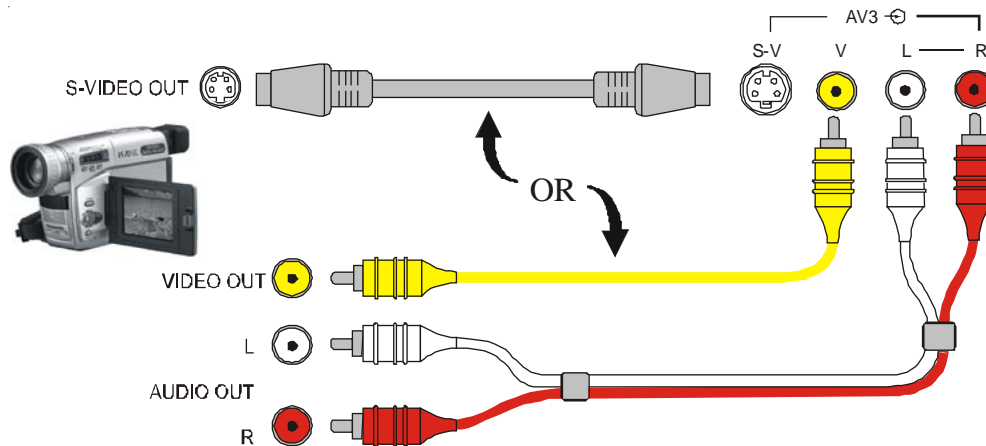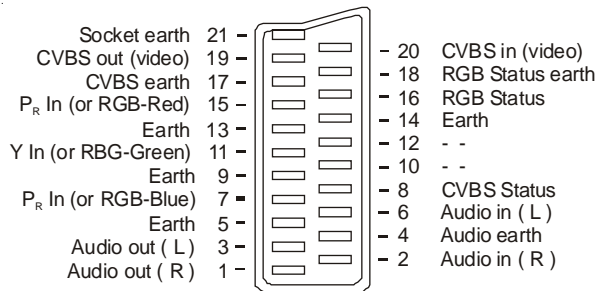

*** NOTE ***
Headphones and connecting cables for Antennas, VCRs, LDs DVDs, and Amplifiers etc. are not supplied with this television See page 39 for accessories supplied.
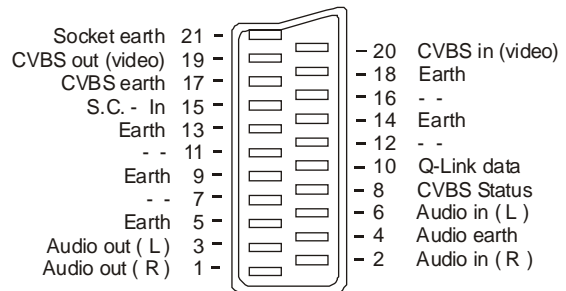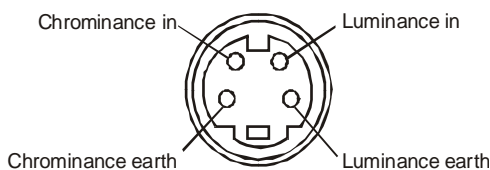
Connectors

AV1 / AV4 Scart Socket

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

Use AV1 or AV4 for YP_RP_B (YUV) inputs.

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	CVBS Status
- -	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 – VHS / VIDEO switching

S-Video 4 Pin socket

Chrominance in   Luminance in
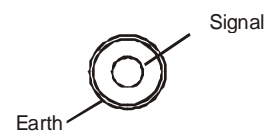
Chrominance earth   Luminance earth

RF Socket

RF Signal

Earth

RCA Socket

Signal

Earth
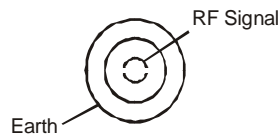
Connecting Equipment to the TV - Rear Panel

Most DVD players and Set Top Boxes have both a composite video and YP_BP_R (YUV) video outputs. The YP_BP_R system produces a better picture and we recommend that you use this output. If your DVD player or STB does not have YP_BP_R output, use the Video Out terminal. The supplied Scart to 6 RCA cable can be connected to either output. If your DVD player or STB has different type connectors please refer to your instruction book for details.

Device	AV1	AV2*	AV3	AV4
DVD Player (Component video)	Yes	No	No	Yes*
DVD Player (S-Video)	No	Yes	Yes	Yes
DVD Player (Composite video)	Yes	Yes	Yes	Yes
STB (Component video)	Yes	No	No	Yes*
STB (S-Video)	No	Yes	Yes	Yes
STB (Composite video)	Yes	Yes	Yes	Yes
VCR (S-Video)	No	Yes	Yes	Yes
VCR (Standard)	Yes	Yes	Yes	Yes
VCR (Q-Link)	No	Yes	No	No
Camcorder (S-Video)	No	Yes	Yes	Yes
Camcorder (Composite video)	Yes	Yes	Yes	Yes
Games Console (RGB) *	Yes	No	No	Yes
Computer (RGB) *	Yes	No	No	Yes

* Notes:
1. The AV2 Scart socket can output selectable Audio/Video signals to other equipment. Refer to AV2 Out set up on page 15.
2. AV1 and AV4 can supply Monitor out signals using a Scart cable or a Scart adaptor switched to "OUT"
3. You can connect YP_BP_R video to AV4 using the RCA sockets only, the audio for AV4 can only be connected through the Scart socket.
4. Do not connect a computer or games console with TTL output (5V) to this television.
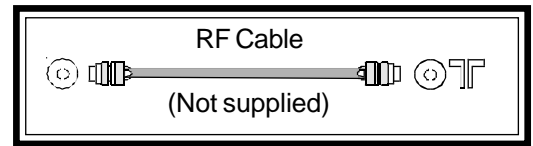
Connecting a VCR

When using a VCR with the television *always* connect the Aerial to the VCR and connect an RF Cable (not supplied) between the VCR RF-Out and the television RF-In.

You can watch videos by either tuning the television to the VCR (see page 30) or by connecting the VCR to the rear AV terminals.

Note: When connecting a mono VCR through the RF-In, please switch the TV to mono.

Connecting a standard VCR

Most standard Videocassette Recorders use RCA type video and audio connectors. If your VCR has different type connectors please refer to the VCR instruction book for details. Use the supplied Scart adaptor. Make sure that the Scart adaptor is switched to IN. Use RCA cables (not supplied) to connect the VCR to the Scart adaptor.
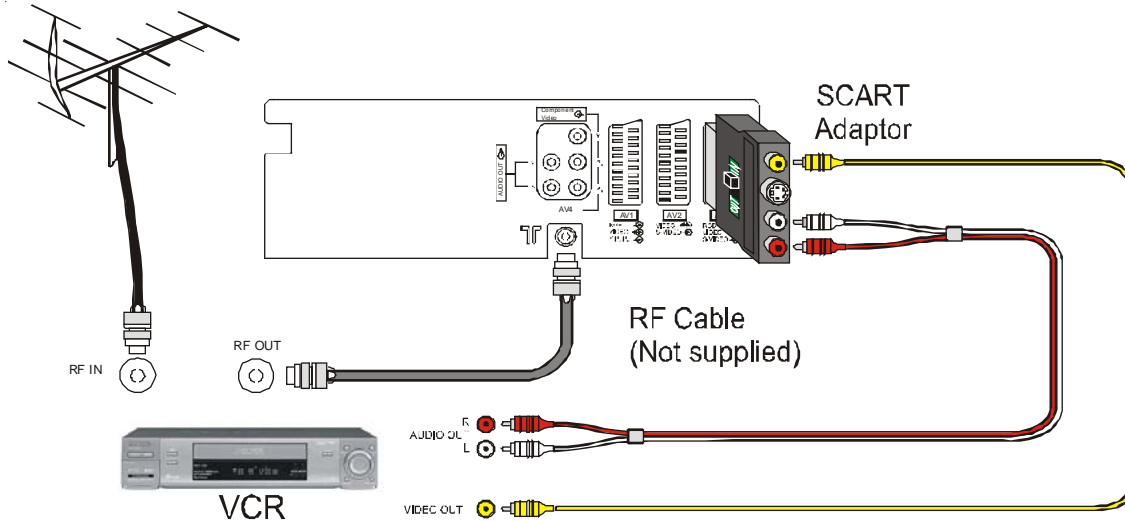
Connecting S-Video Equipment

S-Video equipment uses a 4Pin Mini Din (Male) plug for the video and RCA plugs for the audio.
Use the supplied Scart adaptor. Make sure that the Scart adaptor is switched to IN. Use the S-Video cable (not supplied) and RCA cables (not supplied) to connect the VCR to the Scart adaptor.
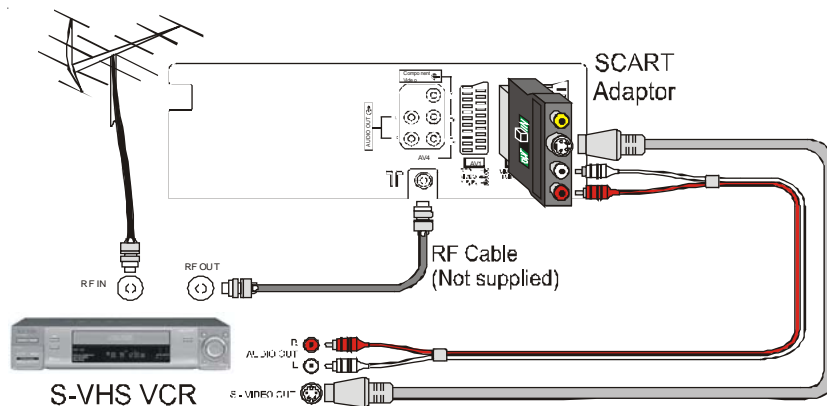
Note:
When an S-Video cable is connected to an S-Video input terminal, the RCA video terminal for that AV position will be disconnected.

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Connecting Equipment to the TV - Rear Panel
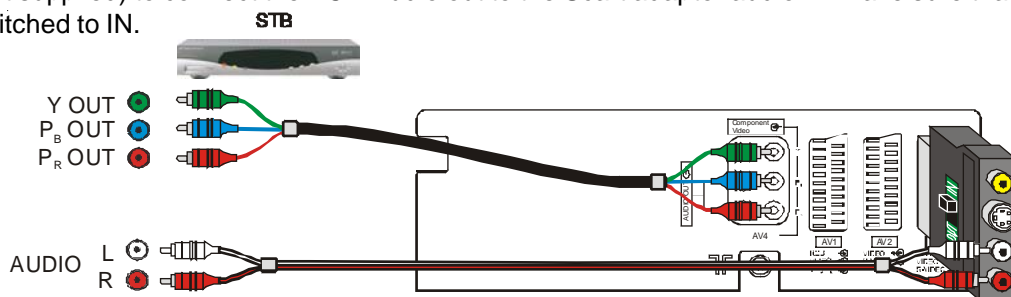
Connecting a DVD player or Set-top Box

Connecting component video to AV1.
Use the supplied Scart to RCA cable.
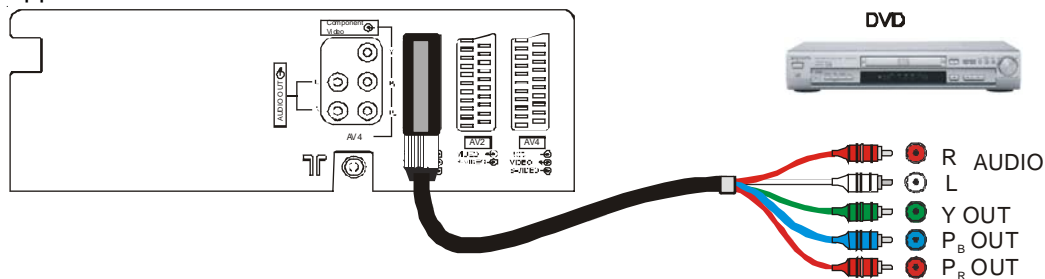
Connecting component video to AV4.
Use the supplied Scart adaptor. Use RCA cables (not supplied) to connect the VCR YUV out to the TV YUV in. Use RCA cables (not supplied) to connect the VCR Audio out to the Scart adaptor audio In. Make sure that the Scart adaptor is switched to IN.

Special note for TX-76PW60A and TX-66PW60A
Make sure that the DVD player or set-top box is set for "Interlaced" out put. "Progressive" signals can cause erratic operation of these televisions.

Monitor Out and Audio Out

The AV2 socket is also the monitor output. Connect the Monitor out from this television to the AV Input of a second television, VCR or DVD recorder. See page 16 to set up the signal source for AV2 out. Use the supplied Scart adaptor. Make sure that the Scart adaptor is switched to OUT. Use RCA cables (not supplied) to connect the external equipment to the Scart adaptor.

If a video recorder is connected to the Monitor Out and video sources (VCR, video disc, camera etc.) are connected to one of the other AV Inputs, the television becomes a visual display for editing or copying. *

The audio output can be connected to a stereo amplifier or recorder. *
The audio output corresponds to the programme being shown on screen.
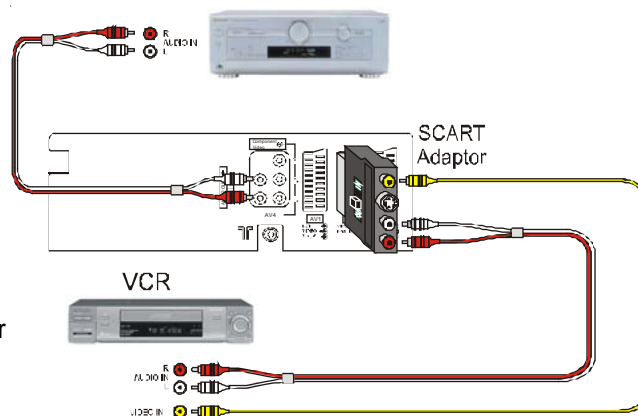
NOTE:
Never connect the same video recorder or other device to both the VIDEO IN and MONITOR OUT terminals of this television as this could cause incorrect operation.
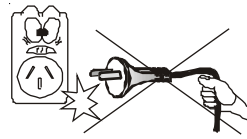
---

* WARNING
Unauthorised recording of material from Television Broadcasts or from other video
and/or audio sources may contravene copyright laws.

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Customer Information - Warnings and cautions

To keep your Panasonic Television in good working order please observe the following warnings and cautions. Please be careful with this television. Like all electrical equipment it can cause serious injury or damage if it is mistreated.
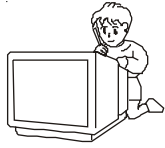
Danger
Do not insert foreign objects. (Keep metal or easily inflammable objects out of this television).
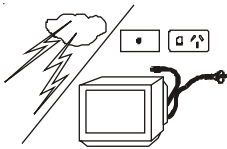
Danger: High Voltage
Do not remove the rear cover, as High Voltage components will be exposed.

DO NOT touch the aerial cable and metal parts of the television when there is lightning around. During storms switch the television off. **DO NOT** leave in standby. Remove the plug from the wall socket.
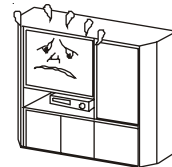
Do not place any containers of water or other liquids on or near this television.
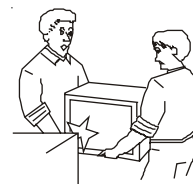
Do not place the TV in humid or dusty locations, or areas exposed to smoke or steam. Avoid exposing the television to direct sunlight or any other sources of direct heat.
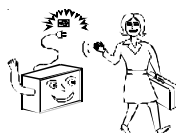
Do not stand or place heavy objects on top of the television.

Remove the Power Plug from the wall socket when the Television is not going to be used for an extended period of time.

Safety First

In the event of unusual operation (e.g. odd sounds, smoke or aromas), turn the television Off and remove the power cord from the wall socket. Then call the Television Service Centre: this may reduce the possibility of expensive repair costs.

Danger
Always pull the plug out of the wall outlet by holding the plug itself.
Do not pull the plug by the power cord.

Danger
Do not alter the power cord.
Do not use if the power cord or plug is damaged or if the plug does not fit tightly into the socket.

Do not allow the power cord to come into contact with flame or hot surfaces.

Do not place heavy objects on the power cord.

Adequate ventilation is essential. Allow a gap of at least 10cm around the TV, even in a cabinet or between shelves.

Do not subject the TV to any physical shocks. Always remove any connector cables when moving the TV. When moving the TV from one place to another wrap it in something protective.
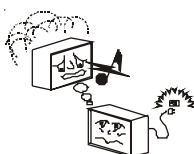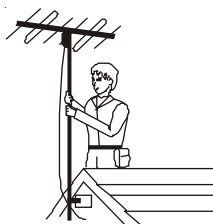
Turn the power OFF before connecting other electrical equipment.

Any external aerial should be installed by a reputable qualified installer and should comply with Australian Standard AS1417.1 or International Standard IEC597-1.1.
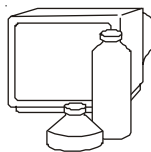
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Customer Information

Cleaning the Television

Cabinet and Picture Tube Care
The cabinet and picture tube can be kept in good condition by wiping with a clean, lint free cloth moistened with mild detergent and water. For safety, remove the plug from the power outlet when cleaning.

This television contains many plastic parts. For this reason **Do Not** use benzene, thinners or any solutions containing petroleum or other chemicals.
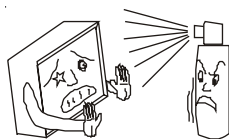
Do not spray insecticide or volatile solvent on the TV. **Do not** allow rubber and vinyl products to stay in contact with the TV for long periods of time. They may cause changes in paint quality.

Remove dirt and soiling by wiping with a soft cloth. Even if the television is heavily soiled do not apply cleaner directly to the unit. Soak a cloth in a solution of neutral cleanser thinned with water. Wring out the cloth, wipe the television clean and finish by wiping with a dry cloth.

Cleaning the Remote Control

The lens of the Remote Control should be kept clean and free of dirt and grease. Use a soft cloth moistened with water and a mild detergent to keep the lens clean.

Lens

Remote Control
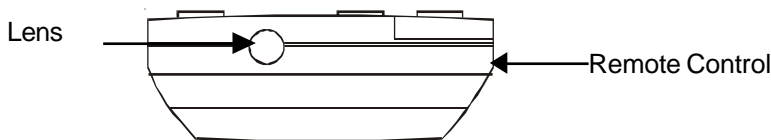
Customer's Record

The serial number of this product can be found on its rear cover and on the carton. It is recommended that you note the serial number and other details in the space provided and retain this booklet in a safe place as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model No. _____

Serial No. PA - _____

Purchase Date _____

Purchased From _____

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Frequently Asked Questions

Some minor problems can be corrected very quickly and easily without the cost of a service call. Panasonic has a Customer Care Centre which can answer most questions over the phone. Before you contact the Customer Care Centre with your question we have included the most commonly asked questions.

Question: **How do I get Channel 10?**
Answer: You have five methods of selecting Channel 10
1. You can use the two digit channel selector on the remote control (- / - -). Press this button followed by the number 1 button, then the 0 button.
2. You can use the direct channel selector on the remote control (C). Press this button followed by the number 1 button, then the 0 button.
3. You can press the 9 button followed by the channel up button (∧).
4. You can tune channel 10 into another position.
5. Press the Recall button. Press the Red Button (VCR - > 24). Use the UP and DOWN buttons to highlight channel 10 and press the Blue button.

Question: **My channel number is still on the screen. How do I turn it off?**
Answer: If the channel number is a small number on the top left of the screen, press the recall button (🖾) on the remote control. Any other channel number is one being broadcast by the television station. There is no way to turn this off.

Question: **How do I tune my stations?**
Answer: The instructions for tuning the stations are on page 26 for automatic tuning and on page 27 for tuning individual stations.

Question: **I have done an "Auto setup" because the book told me to. If I should only do manual tuning, why is automatic tuning first in the book?**
Answer: The Automatic setup and the manual tuning each have specific uses. The reason for each is clearly described in the book. The reason that Auto setup is described first is because this is the first option on the screen.

Question: **I have started the auto tuning by accident. How do I stop it?**
Answer: Pushing the remote control TV/AV button at any time will stop the Auto tuning. However, if you stop the Auto setup before it is finished no station information will be stored. You will have to restart and complete the Auto setup or manually tune each station.

Question: **Why doesn't the channel change when I press the channel button?**
Answer: The television might be switched to Teletext mode. If it has been switched to text mode for closed captions and they are not being transmitted there may not be any indication on the screen to let you know that you are in Text mode. See pages 20, 21 and 22.
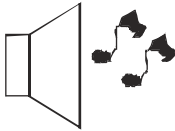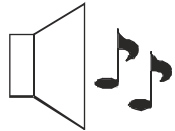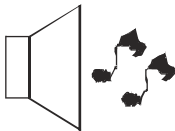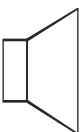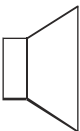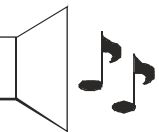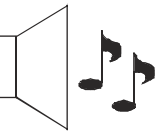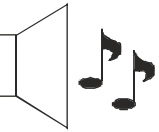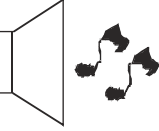
Question: **Why do I get two small images when I switch the TV to AV mode? (TX-76PW60A and TX-66PW60A)**
Answer: Your Settop box or DVD player may be switched to "Progressive" or "576p". This television is designed for use with "Interlaced" signals. Switch the output to interlaced (625i or 525i).

If the answer to your problem is not in this list, determine the symptoms and make a few simple checks as shown on the next page. The location of the nearest service centre can be obtained from the Panasonic Customer Care Centre on 132600.

Troubleshooting

Before calling for service, determine the symptoms and make a few simple checks as shown below.

Picture	Sound	Check
Snowy Picture	Noisy Sound	Aerial Location, Direction or Connections. If you are watching a tape playback check the state of the Video heads – they may need to be cleaned or replaced. The tape may be old. Check the tracking.
Multiple Image	Normal Sound	Aerial Location, Direction or Connections.
Interference	Noisy Sound	Electrical Appliances, Motorcycles, Cars or Fluorescent Lamps.
Normal Picture	No Sound	Volume (Check the Mute function)
No Picture	No Sound	Not plugged in, switched OFF or Set to Stand By. Check volume, brightness, and contrast levels. Various internal safety devices may have been triggered. Switch the TV off for a few minutes and try again.
No Colour	Normal Sound	Colour Control. If the picture is from a tape playback, try adjusting the tracking.
Scrambled	Normal or Weak Sound	Retune the Television. Refer to page 26.
Colour Patches	Normal Sound	Magnetic Interference from unshielded equipment or the television may have been moved while it was switched ON. (Switch the television OFF, or into Standby and leave it OFF for about 30 minutes). Refer to page 18.
Rolling Picture	Noisy Sound	Picture Menu (Refer to page 14). Sound Menu (Refer to page 15).

Tuning System	Frequency synthesized 100 Position (0 to 99).
RF Channels	VHF 0 to 12 PAL B
	UHF 21 to 69 PAL G
	S'1 to S'3 HYPER TUNER
	S1 to S41
Receiving Systems	PAL B/G
	Reception of Off air broadcasts / Playback from Video Tape Recorders
	NTSC 4.43, NTSC 3.58 PAL 60Hz
	Playback from Special Video Tape Recorders and Special Video Disc Players (Via the AV Sockets) only.
Aerial Impedance	75Ω Unbalanced coaxial
Power Requirements	220 ~ 240Volts ± 10% 50Hz
Power Consumption	**TX-86PW155A** 112W Max 0.6W Stand-By
	TX-76PW155A 100W Max 0.6W Stand-By
	TX-76PW60A 100W Max 0.6W Stand-By
	TX-66PW60A 95W Max 0.6W Stand-By
Chassis	EURO9S
Picture Tube	**TX-86PW155A** Fine pitch 86cm Viewable (Measured diagonally)
	TX-76PW155A Fine pitch 76cm Viewable (Measured diagonally)
	TX-76PW60A Fine pitch 76cm Viewable (Measured diagonally)
	TX-66PW60A 66cm Viewable (Measured diagonally)
Audio Output	Two Speakers (10W + 10W)
Headphone Socket	3.5mm Stereo 8Ω
Picture In Picture	**TX-86PW155A & TX-76PW155A**
	1 Tuner plus AV Picture in Picture, Picture and Picture, Picture out of Picture.
Teletext	TOP/FASTEXT 1500 Pages
Component Video	**TX-86PW155A & TX-76PW155A** 576P, 480P, 625i and 525i
	TX-76PW60A & TX-66PW60A 625i and 525i
Audio / Video Terminals	AV1 (Rear) : Video or Y/P_B/P_R, Audio L/R (Scart connector)
	AV2 (Rear) : S-Video, Video, Audio L/R IN / OUT (Scart connector)
	AV3 (Front) : S-Video, Video, Audio L/R (RCA connectors)
	AV4 (Rear) : S-Video, Video or Y/P_B/P_R, Audio L/R (Scart and RCA connectors)
Audio / Video Input	S-Video Y : 1.0Vp-p 75Ω C: 0.3Vp-p 75Ω
	Video in 1.0Vp-p, 75Ω
	Audio in Approx. 500mVrms 1kΩ
Audio / Video Output	Video Out 1.0Vp-p, 75Ω
	Audio Out Approx. 500mVrms 10kΩ
Accessories Supplied	Remote Control EUR511268 **TX-86PW155A & TX-76PW155A**
	EUR511212A **TX-76PW60A & TX-66PW60A**
	2 Scart to RCA / S-VHS Adaptor CW-30410
	Scart to 6 RCA Cable ME-60108
	2 Type 'AA' Batteries
	Instruction Manual TQB4A0165

Dimensions	width	depth	height	Weight
TX-86PW155A	950mm	582mm	623mm	80kg
TX-76PW155A	849mm	551mm	560mm	63kg
TX-76PW60A	902mm	549mm	566mm	55kg
TX-66PW60A	766mm	529mm	512mm	40kg

Note:
Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

AUSTRALIA

Panasonic
Customer
care
centre
132600

www.panasonic.com.au

NEW ZEALAND

Distributed in New Zealand by
Panasonic New Zealand Limited
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East Tamaki, Auckland
Customer Care Center
Ph: 0800 726 276
Email: Customerservice@panasonicnz.co.nz
www.panasonic.co.nz

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ABN: 25 000 611 389
Certified to International Quality Standard AS/NZS ISO9001
Certified to International Environmental Standard AS/NZS ISO14001

QUALITY
MANAGEMENT
SYSTEM
ISO 9001 NATA CERTIFIED

ENVIRONMENTAL
MANAGEMENT
SYSTEM
ISO 14001 NATA CERTIFIED