# Panasonic

Widescreen
Stereo Colour Television
With Teletext
Operating Instructions

# TX-86PW300A TX-76PW300A











# **Operating Instructions**

Please read these operating instructions completely before operating this set and retain the booklet for future reference.



### Panasonic and the Environment





Dear Panasonic Customer

Thank you for choosing to buy a Panasonic colour television. This product was assembled at our Panasonic Television Factory in Penrith, New South Wales, Australia under an internationally accredited Quality and Environmental Management System. You can therefore be assured that you have purchased a quality product incorporating environmentally friendly features, such as lead free soldering, to reduced potential 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.



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.

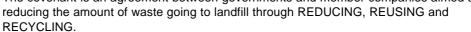
#### **Plastics**

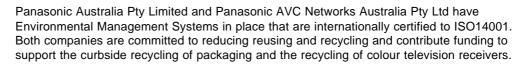
Panasonic is reducing the number of different plastics used in both the television and its packaging.

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 Pty Limited 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





Panasonic Australia Pty Limited and Panasonic AVC Networks Australia Pty Ltd are active participants in CESA (Consumer Electronics Supplier Association). This group is currently working on how to manage end-of-life disposal of manufactured products in an environmentally responsible manner and are collaborating with government, industry and other stakeholders in striving for best practice in Product Stewardship.



Panasonic AVC Networks Australia Pty. Ltd.

P.O. Box 326 Penrith NSW 2751

ABN: 25 000 611 389

Certified to International Quality Standard AS/NZS ISO9001

Certified to International Environmental Standard AS/NZS ISO14001



# **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.
- bo 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 20.

**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.

# Programme Location Numbers

This television comes to you "factory tuned" to all the major capital city broadcast stations. Adjustments to the tuning should not be necessary. However, if you have to make adjustments, please read these instructions carefully first. 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 19 for operating instructions for the GEOMAGNETIC feature.

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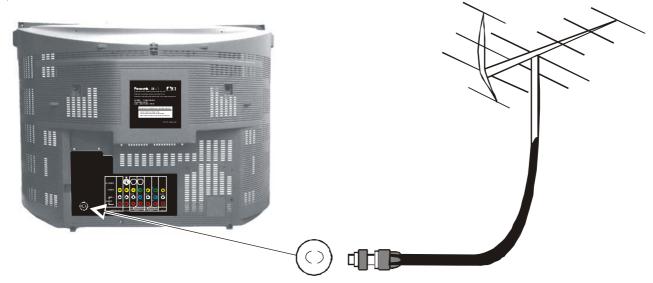
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# **Getting Started**

# **Connect the Aerial**

The RF (Aerial) Input impedance of this television is  $75\Omega$ . If your aerial lead is  $300\Omega$  ribbon (two wires separated by a flat plastic strip) you will require a  $300\Omega/75\Omega$  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**

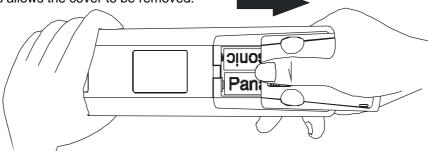
Push the Power Switch to turn the television ON.
Sit back and enjoy your new Panasonic television.

Power Switch

# **Battery Installation and Replacement**

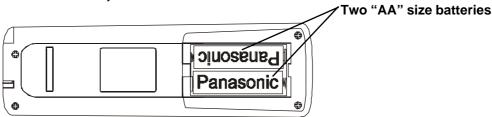
# **Open Battery Cover**

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.



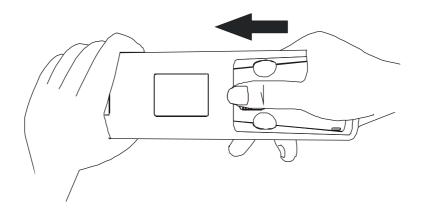
# **Insert Batteries**

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.



# **Replace Battery Cover**

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

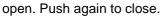


# **Battery Precautions**

- \* **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.

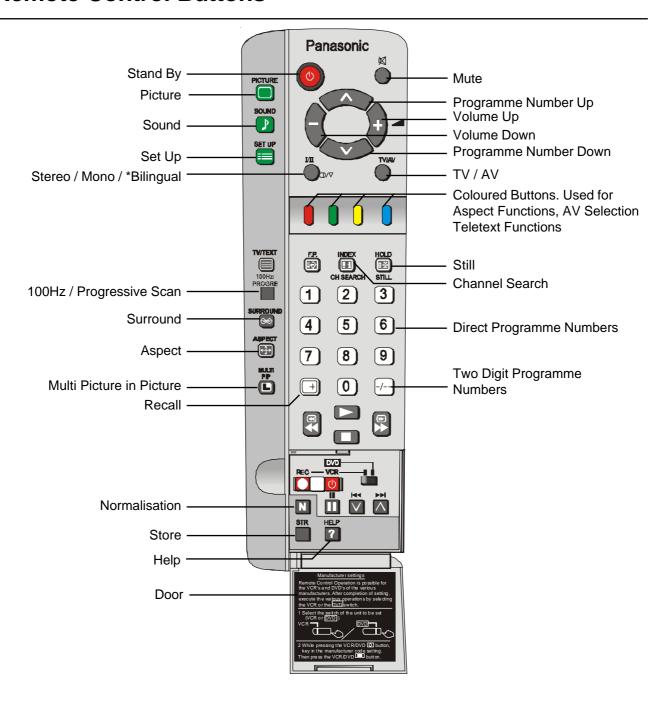
# **Control Panel Buttons**

Open the control panel door to gain access to the television Controls Push the door at the point marked  $\Delta$  to





# **Remote Control Buttons**



For details of TELETEXT Operation remote control operation, please refer to page 22. For details of VCR and DVD player remote control operation, please refer to page 30.

<sup>\*</sup> Bilingual broadcasting is not currently available in Australia or New Zealand.

# **Television Control Panel Buttons**

# **BUTTON**

# WHAT IT DOES

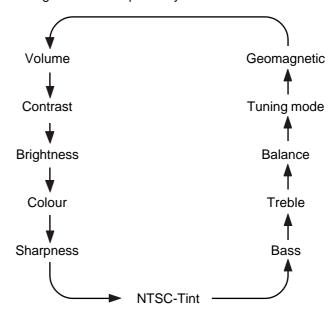
STR

**STR** 

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

Е

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



Notes:

NTSC-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 function settings.



+//

This button is used to select the next higher programme number. It is also used with the F button to adjust function settings.



TV / AV

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

# **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 15 for detailed operating instructions.



#### SOUND

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



#### **SET UP**

This button is used to select the set up menu. Please refer to page 17 for detailed operating instructions.



#### STEREO / MONO

Pushing the button changes the mode from Stereo (  $\bigcirc$  ) to Mono (  $\nabla$  ) and back again. Normally the television will detect whether the broadcast signal is Mono or Stereo and will set the mode accordingly. If the Stereo signal is weak or if the receiving conditions are not the best, it is recommended that the Mono mode be manually selected.

#### **BILINGUAL** \*

This system allows two languages to be transmitted for one broadcast. Switching between the Main (I) and Sub (II) positions selects the desired language.

\* Note: Bilingual sound is not currently available in Australia or New Zealand.



#### 100Hz / PROGRE

This button allows you to change the Picture refresh setting between 75/883i, 100Hz and Progressive. Please refer to Scan mode on page 15.



#### SURROUND

This button switches the Dolby Virtual surround on and off. Please refer to page 16.



#### **ASPECT**

This button is used to move through the different aspect options of AUTO, 16:9, 14:9, Just, 4:3, Zoom 1, Zoom 2, Zoom 3. Please refer to page 21. The aspect function does not work with Multi Pip.



#### **MULTI PIP**

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), PAP (Picture And Picture) and POP (Picture Out Of Picture).

The Multipip function does not operate when you are using a 1080i or 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.

### **BUTTON**

### WHAT IT DOES

PIP (Picture In Picture) Mode

Allows a small picture to be viewed inside the main picture.

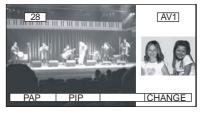
Pressing the Red button will switch to the PIP. The Yellow button will switch to the PAP mode. The Blue button swaps the position of the two pictures.



POP (Picture Out Of Picture) Mode

Allows two pictures to be viewed at the same time. The pictures will be shown side by side. The main picture is larger

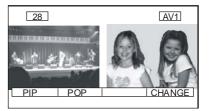
Pressing the Red button will switch to the PAP. The Yellow button will switch to the PIP mode. The Blue button swaps the position of the two pictures.



#### 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.

Pressing the Red button will switch to the PIP. The Yellow button will switch to the POP mode. The Blue button swaps the position of the two pictures.



#### Changing channels in MULTI PIP mode

When the On-Screen display (coloured boxes) is ON, the sub picture can be changed. Use the normal TV/AV button to switch between each of the 5 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.



#### RECALL

Pressing this button will display all current active functions. The functions that can be displayed include AV Number, Programme Number, Colour system, Sound Option, Picture Option, Stereo or Mono and Off-Timer setting. 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.



#### NORMALISATION

The Normalisation Button is used to reset the television to factory set levels. Colour, Sharpness, Contrast, Brightness, Treble, Bass and Balance will be reset. The button will only operate if the menu is displayed on the screen.



#### **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.

# **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 14.



#### **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 ( $\Lambda$ ) or lower (V) Programme Number in sequence. Programme Numbers which have been "Skipped" (See page 29) will be bypassed when this button is used.





#### **VOLUME DOWN AND UP**

This button is used to increase (+) or decrease (-) the volume output level from the television. The volume control has a range from 0 to 100.



#### 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.

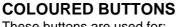












These buttons are used for:

- 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.

# **BUTTON**

# WHAT IT DOES

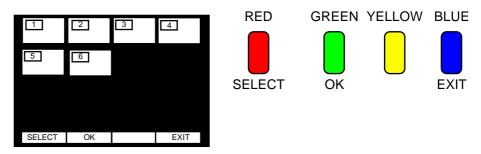


#### **CH SEARCH**

This option is used to show freeze frames of the programmes being broadcast on all the stored channels. The images are displayed clockwise around the edge of the screen starting from the top left corner. The current programme is displayed in the centre of the screen. When the display gets back to the top left corner it will overwrite the first picture with the next one in series.

The display will continue to change until any button is pressed

The Red button is used to select each programme in turn. The green button is used to swap the main display between the current programme and the one selected by the red button. The Blue button returns to normal viewing.



**Notes:** Skipped channels are not shown.

When all the programmed channels have been displayed, the television will restart the display starting from the top left corner.



#### 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.

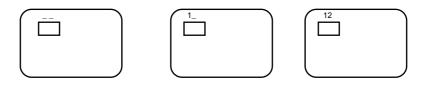


#### TWO DIGIT PROGRAMME NUMBER SELECTION

To directly access Programme Numbers 10 to 99, press the "- / - -" Button followed by the two digits required. For example, to select Programme Number 12:

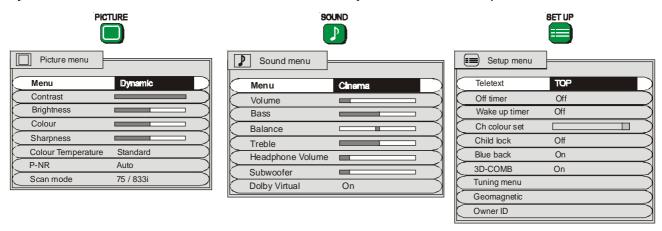


The On-Screen display will be as shown:



# **Using The On Screen Displays**

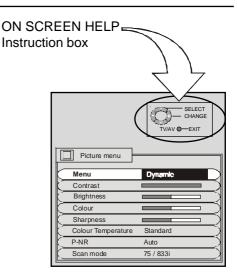
Many features available on this TV can be accessed via the On Screen Display menu system. Use the remote control to access and adjust features as required.



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.



Pressing the HELP (?) button displays on screen instructions on how to adjust various settings and how to connect external equipment.

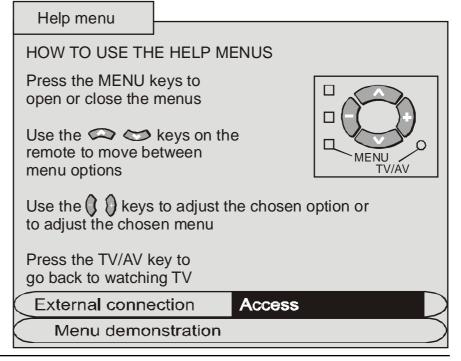
#### **External connection**

Press the or button to select the External connection option. Use the or button to view information on how to connect external equipment.

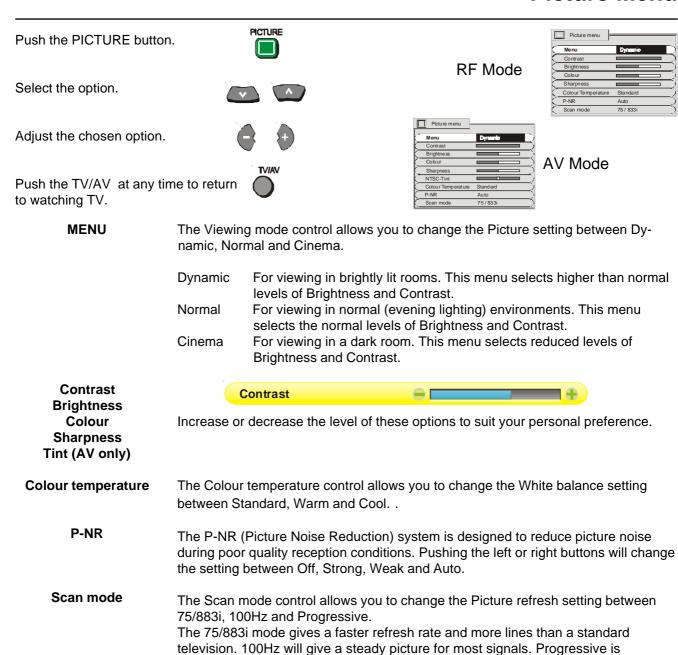
#### Menu demo

Press the or button to select the Menu demo option.

Use the or button to view the demonstration.



# **Picture Menu**



#### Notes:

1. You can change the level for each function (Contrast, Brightness, Colour, Sharpness and NTSC-Tint) for each picture menu option.

NOTE: The scan mode function is not available when Picture in Picture is being

recommended when receiving NTSC signals.

- 2. Picture menu levels can be set for TV, AV1, AV2, AV3, AV4 and AV5 modes.
- 3. NTSC-TINT only appears when the TV is receiving NTSC signals and the television is in the AV mode.
- 4. Only CONTRAST will be displayed in TELETEXT mode.

used.

- 5. We recommend that you set the Scan mode to Progressive when viewing a PAL 60 or NTSC transmission. When viewing a PAL transmission (other than PAL 60) with the Scan mode set to Progressive, the screen will flicker. This is not a fault.
- 6. The Multipip function will not operate when a Progressive signal is used.

# Normalisation N

Pressing the Normal ( ) 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.

# **Sound Menu**

Sound menu Push the SOUND button Menu Cinema Move to the option Volume Bass Balance Adjust the chosen option Treble Headphone Volume Subwoofer Push TV/AV at any time to return to Dolby Virtual On watching TV.

MENU The MENU control allows you to change the Sound setting between Music, News

and Cinema.

Music Amplifies the low frequencies and outputs optimum sound. Used for

music programmes.

News Human voices (middle pitch sounds) will be more clear. Used for

News broadcasts etc.

Cinema For movie and drama programmes.

**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 independent 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.

**Subwoofer** Adjusts the subwoofer output volume.

**Notes:** 1. You can change the level for each function (Bass and Treble) for each sound menu option.

2. Sound menu levels can be set for TV, AV1, AV2, AV3, AV4 and AV5 modes.

# Normalisation **N**

Pressing the Normal ( \bigcup ) 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 ( ) Button is pressed.

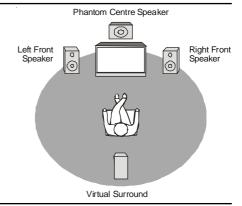
# Dolby Virtual

A Virtual Dolby Surround System attempts to create the same surround effect produced by a multi-channel system using only the left and right speakers.

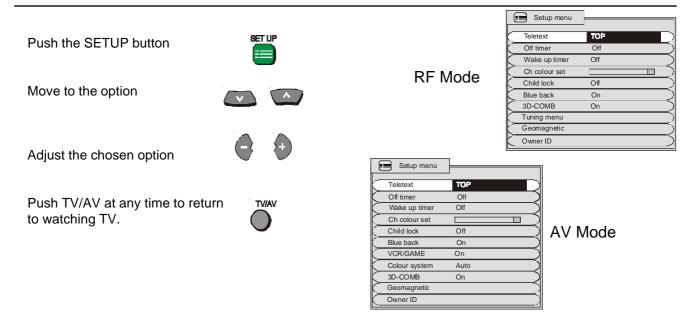
The general conceptual model of a Virtual Dolby Surround System divides the centre signal equally between the left and right speakers to achieve a Phantom Centre Image. It also processes the Virtual surround signal before sending it to the left and right speakers, creating a virtual image around the listener.

The virtual effect is stronger with Dolby Surround encoded movies. Switching the Dolby virtual to OFF gives you normal television sound.

Dolby, and the Dolby symbol are trademarks of Dolby Laboratories.



# Set Up Menu



**Teletext** 

This control allows you to change between TOP (or FASTEXT) and List modes.

TOP mode is the current preferred method in Australia.

FASTEXT mode is the current preferred method in New Zealand. FASTEXT is also known as FLOF.

Off timer

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.

#### Wake up timer

Switches the TV on after a preset time. The wake up timer can be set for up to 12 hours

The Left button will decrease the time by 15 minutes each time you press it. The Right button will increase the time by 15 minutes each time you press it.

After setting the Wake Up Timer, switch the television to Stand-By. The power indicator will blink if the Wake Up Timer has been set correctly.

When the Wake Up time has elapsed, the television will turn ON and the Off-Timer will be set to 90 minutes.

"WAKE UP TIMER" and the Off-Timer will be displayed at the top of the screen. (Press any button to cancel the display).

When the Wake Up Timer turns the set on, the Off-Timer will automatically switch it off again after 90 minutes, unless it is cancelled. Press any button to cancel the Off-Timer.

The Wake Up Timer can be cancelled by:

- switching the main power off, or
- setting the timer to OFF using the Left and Right buttons, or
- pressing the Normalise button while the wake up timer On-Screen display is showing.

#### Ch colour set

Colour density varying between broadcast channels can be adjusted to three levels for each channel received.

# Set Up menu

#### Child lock

allows you to "lock out" a channel to prevent a child from watching or hearing a particular programme. Select the channel or AV to be locked before pressing the SET UP button.

#### Blue back

When no picture is received or when the signal is very weak, the screen reverts to a blue background and the sound is muted. This feature can be turned Off to continue watching weak signals. It may be necessary to turn the Blue back off when watching a videotape when CUE or REVIEW has been selected.

#### 3D-COMB

If the 3D-COMB function is On, dot interference or cross colour will be reduced. Note: This function is not available for component input.

# Flicker reduction (100Hz Mode only)

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

Note: This function is only available in 100Hz mode.

# Tuning menu (RF Mode only)

This provides access to many other features including system select and tuning options.

#### Geomagnetic

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 19 for instructions on using the geomagnetic correction adjustment.

#### **Owner ID**

This television lets you to prove ownership by letting you enter personal identification into it. The "Owner I.D" 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.

Refer to page 20 for instructions on how to set the Owner I.D.

# VCR/GAME (AV Mode only)

Reproduction of irregular signals such as certain video (AV Mode only) games or some rental video tapes may be improved by turning the VCR/GAME feature On.

# Colour system (AV Mode only)

This option is only available in AV mode. It allows you to select the correct colour system for the signal being received. If a clear picture with correct colours cannot be obtained, a change to the Colour System may improve the picture. The settings are AUTO, PAL, NTSC4.43 and NTSC3.58. The Australian and New Zealand colour system is PAL.

Note: PAL and NTSC3.58 are different colour signal broadcast transmission systems applicable to differing countries. NTSC4.43 is a system used in special VCRs to playback NTSC recorded tapes on a PAL television.

# **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.

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

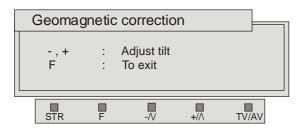
The Geomagnetic Correction feature can be used to eliminate some interference problems.

Quite often simply switching your Television OFF with the Power On/Off Switch (not with the remote control) for 30 minutes and then switching it back ON will cure the problem.

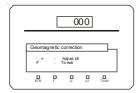
Geomagnetic corrections can be made from the remote control or from the TV set.

# **Using the Front Panel**

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



2. Push - / V or + / ∧ to adjust the picture tilt or coloured patches as necessary.

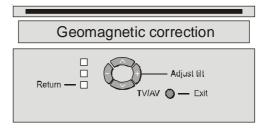


The adjustment range is from -8 to +8.

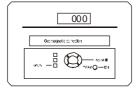
3. Push the F button to return to normal viewing.

# **Using the Remote Control**

- 1. Push the SET UP button == .
- 2. Select the Geomagnetic Correction Menu by Pushing or ...
- 3. Push or to access the Geomagnetic Correction.



4. Push or to adjust the picture tilt or coloured patches as necessary.



The adjustment range is from -16 to +16.

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

OR

6. Push the TV/AV button to return to normal viewing.



# **Helpful Hint**

- 1. If geomagnetic changes cause colour patches on the screen switch your Television OFF with the Power On/Off Switch (not with the remote control) for 30 minutes and then switch it back ON.
- 2. 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.

# Setup menu - Owner ID

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.

Press the SETUP Button

Move to Owner ID Option or buttons.

Access the Owner ID ( or ) buttons

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

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



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



Owner ID

PIN NUMBER: ★ \* \*

POSTCODE: \* 0123456789

PIN NUMBER:

Owner ID

POSTCODE: \* \* \* \* \*

PIN NUMBER: 1 1 1 1 NAME: PANASON HOUSE NO: 1 \* \* \* \* \* \* \* POSTCODE: \* \* \* \* \* \* \*

ABCDEFGHIJKLMNOPQRST UVWXYZ+- 0123456789

ABCDEFGHIJKLMNOPQRST UVWXYZ+- 0123456789

NAME: \* \* \* \* \* HOUSE NO: \* \* \* \* \*

PANASONIC \* \* \* \*

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.

1 2 3

456

789

0

1 2 3 456

789

0

Move to HOUSE NO. Enter your House Number (or other identification). Use the left and right buttons to move from character to

Use the Up and Down buttons to change the character.

Move to POSTCODE.

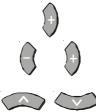
character.

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.







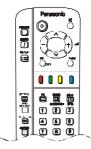


Owner ID





# **Aspect control**



This button is used to move through the different aspect ratios. The aspect options are Auto, 16:9, 14:9, JUST, 4:3, Zoom1, Zoom2 and Zoom3.

#### 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.

#### 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.



#### **JUST**

This option gives you a "best fit" option when showing 4:3 on wide screen. The centre of the picture is not affected but there is some stretching at the edges.



#### 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.

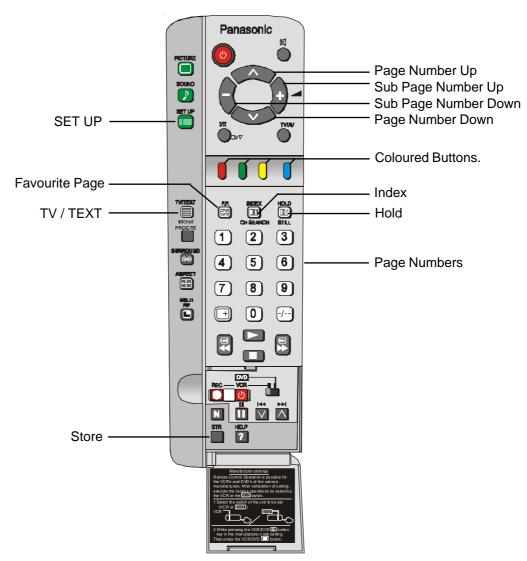
#### FASTEXT or FLOF (Full Level One Features) mode

In FASTEXT 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 19 for instructions on how to change modes between TOP or FASTEXT 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.
- 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  $\square$  button or the  $\square$  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.



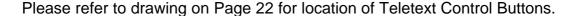
#### **INDEX**

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.



# **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.

<sup>\*</sup> Note: TIME TEXT is not currently available in Australia.

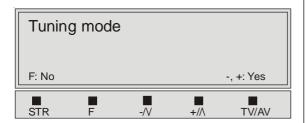
# **SYS Select**

This option allows you to switch the television system between the Australian and the New Zealand / Indonesian system.

# **Using the Front Panel**

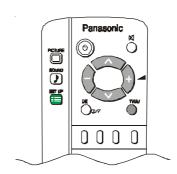


 Push the F button repeatedly until the Tuning Mode is reached.



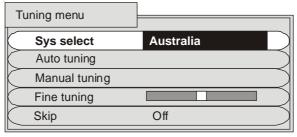
2. Push the -/√ or +//\ Button to access the Tuning Menu.

# **Using the Remote Control**



- 1. Push the Set Up ( button.
- 2. Push the or button to access the Tuning Menu.

3. Push the or button to select the Tuning Menu.



- 3. Push the F button to select Sys select.
- Push the -/√ or +// Button to switch between Australia and NZ/INDONES.
- To return the television to normal operation push the TV/AV button on the remote control or repeatedly push the F button until the volume display appears.
- 4. Push the or button to select the Sys select.
- 5. Push the or Button to switch between Australia and NZ/INDONES.
- 6. Push the button to return the television to normal operation.

**Note:** Pushing the button at any time will return you to normal viewing.

# **Tuning Menu**

# **Auto Tuning**

This television has been factory tuned to all 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.

The television should be switched ON and the TV/AV Switch set to TV.

When you start the automatic search, the television will automatically search for television broadcasts through both VHF bands and the UHF band. During this process all of the available television broadcast channels will be automatically allocated to sequential Programme Number locations.

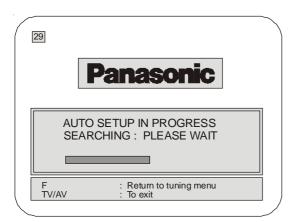
# **Using the Front Panel**

- 1. Push the F button repeatedly until the Tuning Menu is reached.
- 2. Push the -N or +/N Button to access the Tuning Menu.
- 3. Push the F button to access Auto tuning.
- 4. Push the -// or +// Button to start the search.

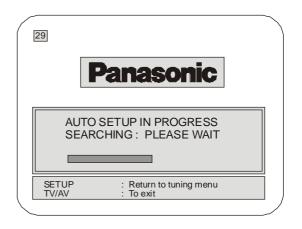
# **Using the Remote Control**

- 1. Push the Set Up ( ) button.
- 2. Push the or button to select the Tuning Menu.
- 3. Push the or button to access the Tuning Menu.
- 4. Push the or button to select the Auto tuning.
- 5. Push the or button to start the Auto tuning.

The television will automatically allocate each received broadcast signal to a Programme Number, starting at position number 1. "PLEASE WAIT" will flash during the tuning operation. The operation will cease when all available channels have been tuned.



5. Push the TV/AV button on the front panel to return the television to normal operation.



6. Push the button on the remote control to return the television to normal operation.

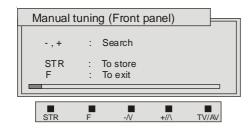
Note: Pushing the button at any time will stop the Auto tuning and return you to normal viewing.

# **Manual Tuning**

This Television has been factory tuned to all the 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 Front Panel**

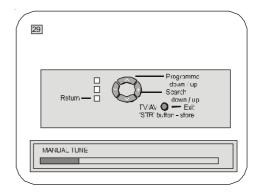
- 1. Push the F button repeatedly until the Tuning Menu is reached.
- 2. Push the -/√ or +// Button to access the Tuning Menu.
- 3. Push the F button to access the Manual Tune.
- Push the -/√ or +/√ button to select the Manual Tune.



- 5. Push the TV/AV button to switch to "Change Programme".
- 6. Use the -/√ or +// buttons to select the programme location number to tune.
- 7. Push the TV/AV button to switch to "Search".
- 8. Push the -N or +/N Button to start the search.
- 9. 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.
- 10. Push the STR to store the selected station.
- 11. Push the F button to return the television to the Tuning Menu.
- To return the television to normal operation push the TV/AV button on the remote control or repeatedly push the F button until the volume display appears.

# **Using the Remote Control**

- 1. Push the Set Up ( ) button.
- Push the or button to select the Tuning Menu.
- 3. Push the or button to access the Tuning Menu.
- 4. Push the or button to select the Manual Tune.



- 5. Push the or button to access the Manual Tune.
- 6. Push the or button to select the programme location number to tune.
- 7. Push the a or button to start the search.
- 8. 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.
- 9. Push the to store the selected station.
- 10. Push the Set Up ( ) button to return the television to the Tuning menu.
- 11. Push the button to return the television to normal operation.

**Note:** Pushing the button at any time will stop the Manual tuning and return you to normal viewing.

# Tuning the Television to a VCR

- 1. 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).
- 2. Repeat steps 2, 3 and 4 of 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 37.
- 2. The picture and sound quality are usually much better if the VCR is connected using the AV Terminals. Please refer to page 37 or 38.

# **Tuning Menu**

# **Fine Tuning**

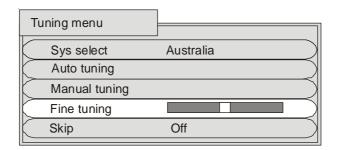
In areas of poor reception or constant interference a slight adjustment to the tuning may improve the picture quality.

# **Using the Front Panel**

- Select the Programme location number you want to fine tune.
- 2. Push the F button repeatedly until the Tuning Mode is reached.
- 3. Push the -N or +/N Button to access the Tuning Menu.
- 4. Push the F button to access Fine Tune.

# **Using the Remote Control**

- 1. Select the Programme location number you want to fine tune.
- 2. Push the Set Up ( button.
- 3. Push the or button to select the Tuning Menu.
- Push the or button to access the Tuning Menu.
- 5. Push the or button to select the Fine Tune.



- 5. Push the -/\/ or +//\ Button to fine tune the station.
- 6. The television will fine tune in the direction chosen by you.
- 7. Push the STR to store the selected station.
- 8. Push the F button to return the television to the Tuning Menu.
- To return the television to normal operation
  push the button on the remote control or
  repeatedly push the F button until the volume
  display appears.
- 10. The on screen display will disappear after a few seconds.
- Push the TV/AV button on the front panel to return the television to normal operation.

- 6. Push the or button to start the fine tune.
- 7. The television will fine tune in the direction chosen by you.
- 8. To store the selected station, push the ......
- 9. Push the Set Up (□) button twice to return the television to the Set Up menu.
- 10. Push the button to return the television to normal operation.

Note: Pushing the button at any time will stop the Fine tuning and return you to normal viewing.

# **Canceling the Fine Tuning**

To cancel the Fine Tuning follow the Manual tuning procedure on page 27.

# Skip

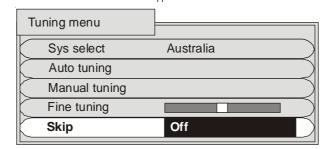
This option allows you to "Skip" (bypass) the unused or undesired Programme Numbers. The Function is only applicable when the Programme Number Up or down buttons are Pushed. The use of the remote control Direct Programme Number Buttons overrides the Skip function.

# **Using the Front Panel**

- Select the Programme location number you want to "Skip"
- 2. Push the F button repeatedly until the Tuning Mode is reached.
- 3. Push the -/√ or +// Button to access the Tuning Menu.
- 4. Push the F button to select Skip.

# **Using the Remote Control**

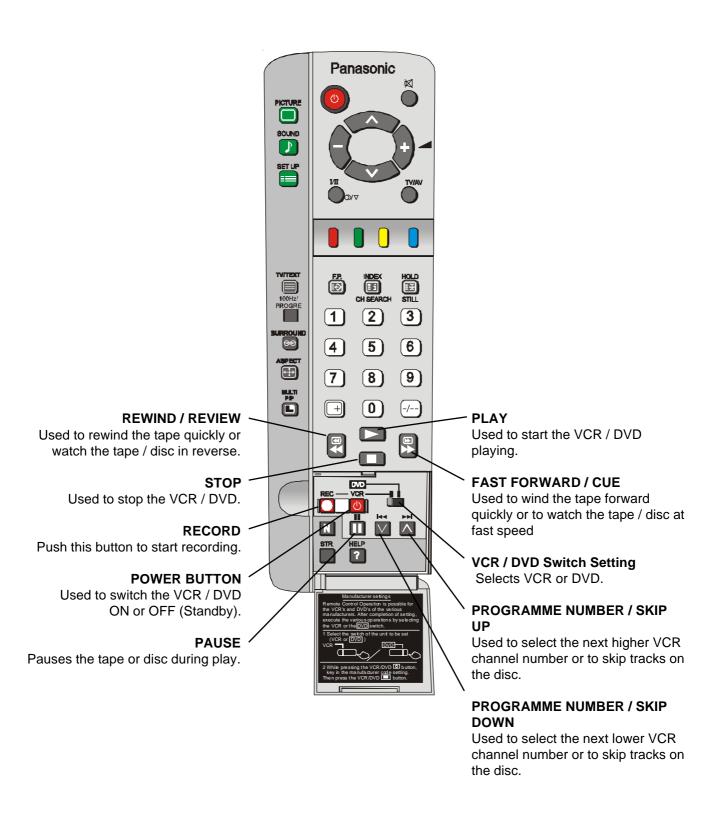
- 1. Select the Programme location number you want to "Skip".
- 2. Push the Set Up ( ) button.
- 3. Push the or button to access the Tuning Menu.
- 4. Push the or button to select the Tuning Menu.
- 5. Push the or button to select the Skip.



- Push the -/√ or +// Button to turn the Skip on or off.
- 6. To store the Skip setting, push the F button.
- To return the television to normal operation push the TV/AV button on the front panel or repeatedly push the F button until the volume display appears.
- 8. The on screen display will disappear after a few seconds.
- 6. Push the or button to turn Skip on or off.
- 7. To store the Skip setting, push the button.
- 8. Push the button to return the television to normal operation.

# **Remote Control VCR/DVD Operation**

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



#### \* WARNING:

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

# **Remote Control VCR/DVD Operation**

# **Manufacturers' Code Settings**

This remote control has been designed to work with a variety of VCRs and DVD players. In order for this to occur, the setting for the VCR or DVD must be programmed into the Remote Control.

- To set a VCR, slide the remote control VCR-DVD switch to VCR.
   To set a DVD, slide the remote control VCR-DVD switch to DVD.
- 2. Push the remote control VCR-DVD Power Button 0 and keep it Pushed.
- 3. Enter the Manufacturer's two-digit code number using the remote control Number Buttons (1) ~ (9) (The codes are shown below).
- 4. Push the STOP button .
- 5. Release the remote control VCR or DVD Power Button .
- 6. Check the operation of the VCR or DVD. If it does not operate correctly, repeat steps 1 to 5 and use an alternate code (if there is one).

#### **VCR CODES**

Manufacturer	Code	Manufacturer	Code
Panasonic / National AIWA FUJITSU HITACHI JVC MITSUBISHI	10, 11, 12, 13 15, 16 20 25, 26, 27 30, 31, 32 35, 36	NEC ORION Philips SANYO SHARP SONY TOSHIBA	40, 41, 42, 43 45, 46 50 55, 56, 57, 58 60, 61 65, 66, 67 70, 71

#### **DVD CODES**

Manufacturer	Code	
Panasonic	70	

#### **NOTES:**

- 1. If the batteries are removed from the remote control the Manufacturer's codes are lost and must be reprogrammed.
- 2. The list of manufacturer's codes is given as a guideline only. Panasonic cannot guarantee that any other manufacturer's product will work with this remote control.

# **Connecting Equipment to the TV**

### **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.)



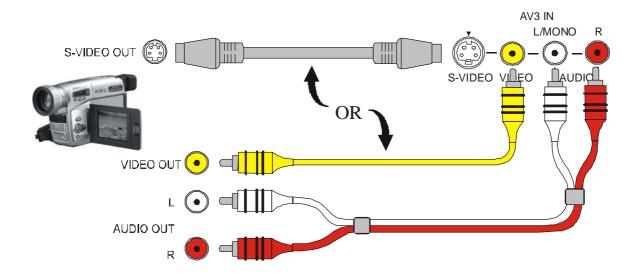
The normal television sound controls (volume, bass, treble, balance or sound mode) have no effect on the headphone sound.



# **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.

# Connecting Equipment to the TV

# **Rear Panel Connections**

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 27) or by connecting the VCR to the rear AV terminals.

RF Cable

(Not supplied)

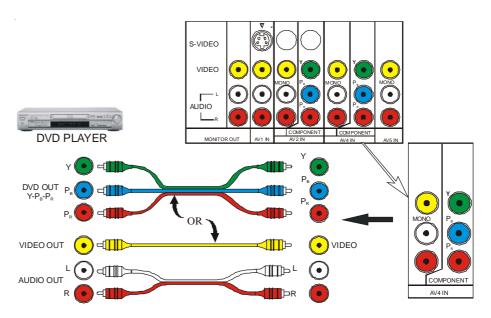
Note: When connecting a mono VCR through the RF-In, please switch the TV to mono.

# Connecting a DVD player or Set-top Box to the AV Input

The audio and video inputs on the television are RCA type connectors. Connect the Y,  $P_{R}$  and  $P_{R}$  outputs from the DVD to the *AV1* DVD Inputs on the television, as shown below.

Connect the "AUDIO OUT" to the *AV1 IN* AUDIO terminals on the television.

You can also use the *AV4 IN* for DVD or Set Top Box connections.



#### Note:

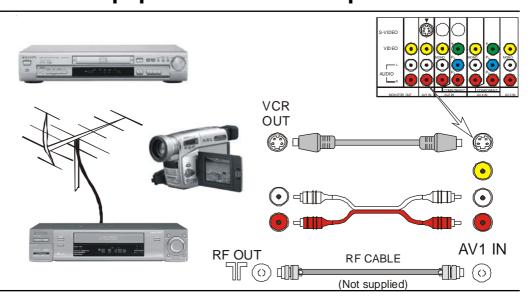
Some DVD players and set-top boxes only have an RCA "VIDEO OUT" terminal. This can be connected to any of the VIDEO Inputs on the television. Connect the "AUDIO OUT" to the corresponding AUDIO terminals on the television.

# **Connecting S-Video Equipment to the AV Input**

S-Video equipment uses a 4Pin Mini Din (Male) plug for the video and RCA plugs for the audio.

#### Note:

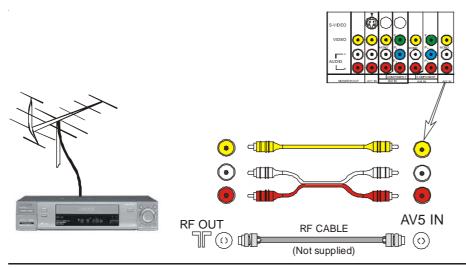
When an S-Video cable is connected to an S-Video input terminal, the RCA video terminal for that AV position will be disconnected.



# **Connecting Equipment to the TV**

# Connecting a Standard VCR to the AV Input

Most standard Video Cassette Recorders use RCA type video and audio connectors. If your VCR has different type connectors please refer to the VCR instruction book for details. VCRs can be connected to any of the AV inputs but we recommend that you use AV5 leaving the other inputs free for S-VHS, DVD or settop box connections. If you only have one VCR, we recommend that you use AV1.



NOTE: A mono VCR can be connected to this television. Connect the VCR Audio out to the Left Audio input on the television. The sound will Automatically be directed to both speakers.

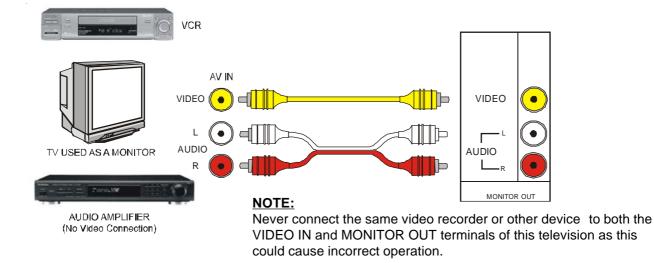
# **Monitor Out**

The Monitor Out terminals reproduce the signals currently on the television screen. The on-screen signals could be a television programme or signals connected to one of the AV inputs.

The Monitor Out facility can be used to allow one video source (videotape, video disc etc.) to be connected to more than one television. Connect the Monitor out from this television to the AV Input of the second television.

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

The Monitor Out Audio can also be connected to a stereo amplifier or other hi-fi equipment.



#### \* WARNING

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

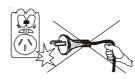
# **Customer Information - Warnings and cautions**

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**

Always pull the plug out of the wall outlet by holding the plug itself.

**Do not** pull the plug by the power cord.



#### **Danger: High Voltage**

**Do not** remove the rear cover, as High Voltage components will be exposed.



#### **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 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** allow the power cord to come into contact with flame or hot surfaces.



**Do not** place any containers of water or other liquids on or near this television.



**Do not** place heavy objects on the power cord.



**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.



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



**Do not** stand or place heavy objects on top of the television.



**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.



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



Turn the power OFF before connecting other electrical equipment.





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.



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.

# **Customer Information**

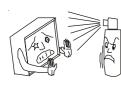
# Cleaning the Television



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.



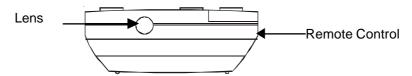
**Do not** spray insecticide or volatile solvent on the TV. **Do not** allow rubber and vinyl products to stay in contact with the TV for long periods of time. They may cause changes in paint quality.



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.



# **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		

# **Customer Information**

# **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: Why are my channels on 1,2,3,4,5?

Answer: Someone has performed an Auto tuning of your television. You will have to retune each channel

individually using the Manual tuning Instructions on page 27.

Question: How do I get Channel 10?

Answer: You have three 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 press the 9 button followed by the channel up button ( $\Lambda$ ).

3. You can tune channel 10 into another position such as programme location 0.

Question: My channel number is still on the screen. How do I turn it off?

Answer: If the channel number is a small green 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 tuning" because the book told me to. If I am only to do manual tuning, why

is automatic search first in the book?

Answer: The automatic tuning and the manual tuning each have specific uses. The reason for each is clearly

described in the book. The reason that automatic tuning 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 and return you to

normal viewing.

Question: Why does the screen turn blue?

Answer: The television has been designed so that the screen turns blue when the signal strength is very weak or

non existent. The reasons may be:

1. The television station may have stopped transmitting.

2. You may have selected a programme number which has not yet been tuned.

3. You may have been watching a videotape or DVD and it has stopped playing.

4. Your aerial connection may have come loose.

Question: When I skip a station why is a picture still coming up when I press the number that the channel is

on?

Answer: The Skip operation only works when you use the Channel Up (  $\Lambda$  ) or Down ( V ) Buttons.

Question: When I use the channel up or channel down why don't I get all the channels?

Answer: Some of the channels may be "Skipped". See page 29.

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 22, 23 and 24.

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.

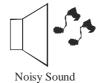
# **Picture**

#### Sound

# Check



Snowy Picture

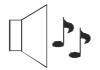


Aerial Location, Direction or Connections.

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

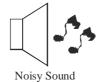


Normal Sound

Aerial Location, Direction or Connections.



Interference



Electrical Appliances, Motorcycles, Cars or Fluorescent Lamps.



Normal Picture



Volume (Check the Mute function)



No Picture



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



No Sound

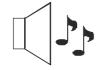
Colour Control.

If the picture is from a tape playback, try adjusting the

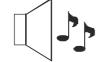
Check the colour system. Refer to page 18.



Scrambled



Normal or Weak Sound



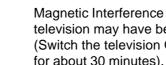
Retune the Television. Refer to page 26.



Colour Patches



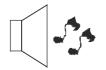
Normal Sound



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 19.



Rolling Picture



Noisy Sound

Picture Menu (Refer to page 15). Sound Menu (Refer to page 16).

# **Specifications**

Frequency synthesized 100 Position (0 to 99). **Tuning System 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** 1. PAL B/G Reception of Off air broadcasts Playback from Video Tape Recorders 2. NTSC 4.43 Playback from Special Video Tape 3. NTSC 3.58 Recorders and Special Video Disc Players (Via the AV Sockets) only. 4. PAL 60Hz **Power Requirements** 220 ~ 240Volts + 10% 50Hz **Power Consumption** TX-86PW300A 179W Max < 0.5W Stand-By TX-76PW300A < 0.5W Stand-By 169W Max Chassis GP1E **Picture Tube TX-86PW300A** 86cm Viewable (Measured diagonally) **TX-76PW300A** 76cm Viewable (Measured diagonally) **Audio Output** Two Way Four Speakers Plus Woofer (10W + 10W + 12W) **Headphone Socket** 3.5mm Stereo  $8\Omega$ 75 $\Omega$  Unbalanced coaxial Aerial Impedance **Picture In Picture** 1 Tuner plus AV Picture in Picture, Picture and Picture, Picture out of Picture. **Teletext** TOP/FLOF 2000 page. Sub text memory 100 page **Component Video** 1080i, 576P and 480P **Video / Audio Terminals** AV1 IN (Rear) S-Video, Video, Audio L/R Terminals AV2 IN (Rear) Video or Y/P<sub>R</sub>/P<sub>P</sub>, Audio L/R Terminals AV3 IN (Front) S-Video, Video, Audio L/R Terminals Video or Y/P<sub>B</sub>/P<sub>R</sub>, Audio L/R Terminals
 Video, Audio L/R Terminals AV4 IN (Rear) AV5 IN (Rear) **Video / Audio Input** S-Video Y : 1.0Vp-p 75ΩC: 0.3Vp-p 75Ω Video in  $1.0Vp-p, 75\Omega$ Audio in Approx. 400mVrms  $1k\Omega$ **Monitor Out** Video Out  $1.0Vp-p, 75\Omega$ Audio Out Approx. 400mVrms  $1k\Omega$ **Accessories Supplied** Remote Control EUR511267 2 Type 'AA' Batteries Instruction Manual TQB4A0167 **Dimensions** TX-86PW300A TX-76PW300A Width 89.7cm 79.9cm Depth 58.8cm 53.5cm Height 64.4cm 57.9cm

Weight

Note:

80kg (Net)

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

65kg (Net)

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#### **WARRANTY** - Australia only

- The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or it's
  Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of
  Panasonic, the product is found to be found to be faulty within the warranty period.
- 2. This warranty only applies to products sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
- 3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). This warranty covers normal office use on office related products and normal domestic use on other products (but not rentals use) and does not cover damage, malfunction or failure resulting from use of incorrect voltages, accident, misuse, neglect, build-up of dirt or dust, abuse, misadjustment of customer controls, main supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
- 4. If warranty service is required you should:
  - Telephone Panasonic's Customer Care Centre on 132600 for the name/address of the nearest Authorised Service Centre.
  - Provide a copy of your purchase receipt as proof of date of purchase.
  - Send or bring the product to a Panasonic Authorised Service Centre. Please note that freight to and / or from your nearest Authorised Service Centre must be arranged by you.
  - Note that in-home or pick-up/delivery service is available for Television Receivers (screen size greater than 39 cm) in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
- The warranties hereby conferred do not extend to any costs associated with the delivery, handling, freighting, or transportation of the product or any part thereof or replacement of and do not extend to any damage or loss occurring during, or associated with, transit

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600.

Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the Trade Practices Act 1974 and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations and liabilities.

THIS WARRANTY AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

#### **WARRANTY - New Zealand only**

WE WARRANT that the Panasonic Television that you have purchased is free from defects in material and workmanship under normal home use and service.

Accordingly, we undertake to repair, or at our option, replace without cost to the owner, either for material or labour, any part which within 12 months from the date of delivery is found to be defective, provided that the appliance has been used for domestic purposes only and in accordance with the instructions given in the Instruction Book and not been subjected to misuse, neglect or installed, dismantled, repaired or serviced by any other than an authorised Panasonic New Zealand Dealer or Panasonic New Zealand Authorised Service Centre.

#### NOTE

- Before reporting a fault, please ensure that you read the item "Troubleshooting" in the information section of your Panasonic Instruction Book.
- It is important to retain your proof of purchase as this will be required by the serviceman or retailer as proof of purchase date, should service be required.
- In the event of service being required, contact your Panasonic New Zealand retailer or Panasonic New Zealand Authorised Service Centre.

#### **IMPORTANT**

Any request for warranty service must be through an Authorised Panasonic New Zealand Service Centre who during the period of the warranty, undertakes to make any necessary adjustment and fit any replacement part supplied by the manufacturer, during normal working hours, or alternatively will arrange for such service to be provided by some other Panasonic New Zealand Authorised Service Centre

#### **AUSTRALIA**



www.panasonic.com.au

#### NEW ZEALAND

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