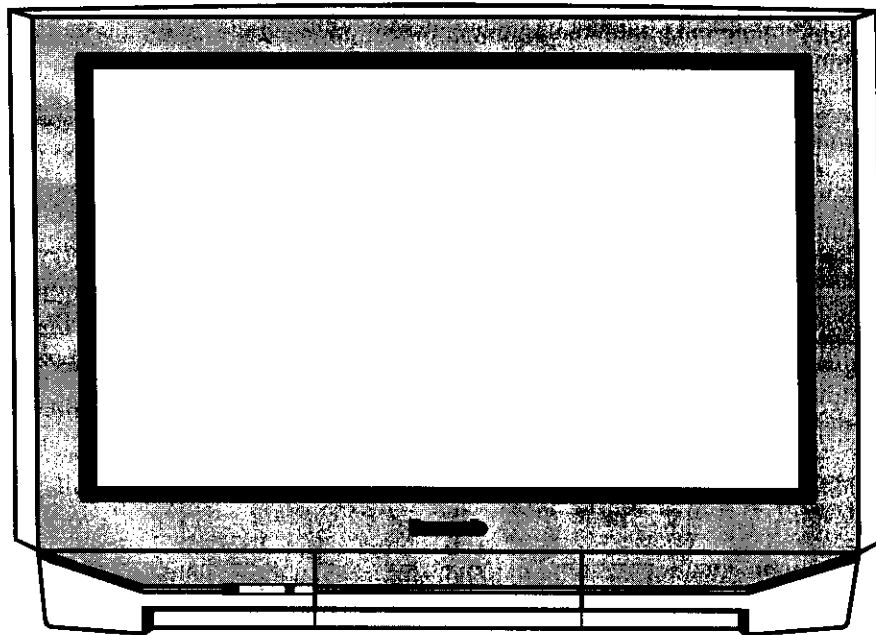# Panasonic

TX-76PW150A
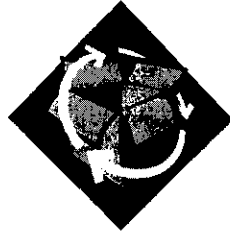# TX-66PW150A

Wide Screen Stereo Colour Television

Operating Instructions

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

TQB4A0159P

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 (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.

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* that 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 with the Power On/Off Switch (not with the remote control) 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 24 for operating instructions for the GEOMAGNETIC feature.

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 _____

Contents

Getting Started
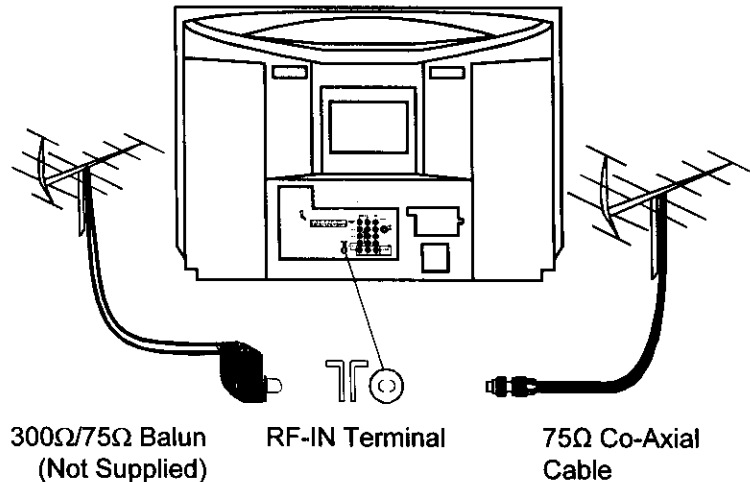## Connect the Aerial

For your safety any external aerial should be installed by a reputable qualified installer and should comply with Australian Standard AS1417.1. The RF (Aerial) Input impedance of this television is 75Ω. If your aerial lead is 300Ω ribbon (two wires separated by a flat plastic sheet) you will require a 300Ω/75Ω Balun in order to connect your aerial to the television.

If you are just using the television with no other equipment (VCR, DVD Player, Set Top Box etc) then connect the aerial as shown below. If you are connecting VCR then connect the aerial as shown on page 34.

| 300Ω/75Ω Balun | RF-IN Terminal | 75Ω Co-Axial |
| (Not Supplied) | | Cable |

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
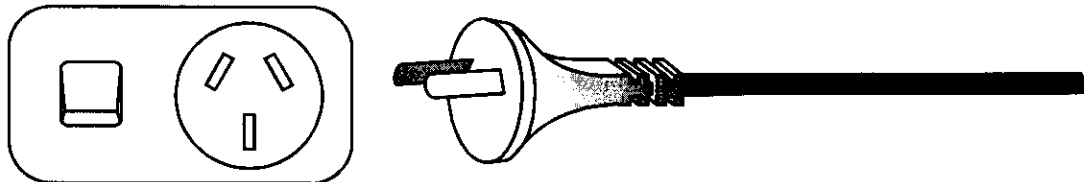
This television is designed for the Australian Standard Mains Voltage of 240V 50Hz and the New Zealand Standard Mains Voltage of 230V 50Hz.

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.
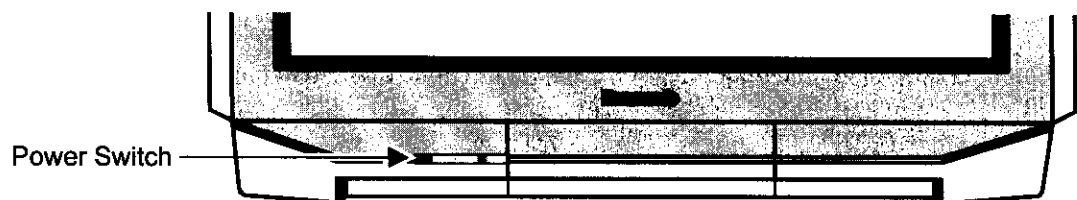
Power Switch

If the television is not going to be used for a while, turn it off with the power switch. This will reduce the amount of electricity used, reduce greenhouse emissions and save you money.

Getting Started

Battery Installation and Replacement

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

Insert the batteries ensuring the correct polarity. The polarity is identified by the " + " and " − " symbols 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
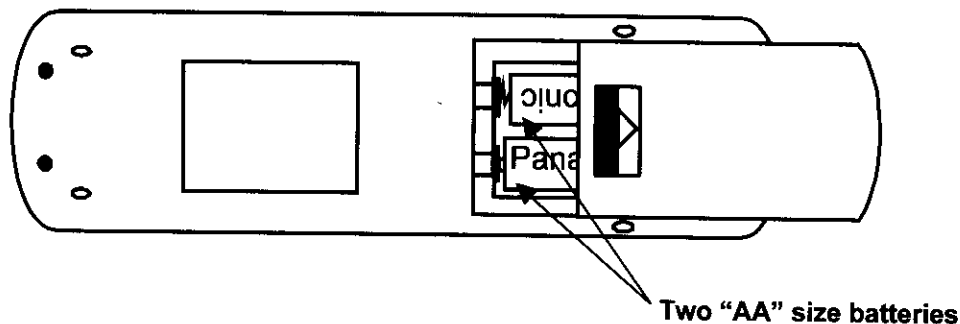
Fit the battery cover and slide it forward until it "clicks" into place.

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.

Caring for 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

Television Control Panel Buttons

Open the front panel door to gain access to the Television Controls, push the door at the point marked with a triangle

Push again to close

PRE.   TV/AV   - ◢ +   V   Λ
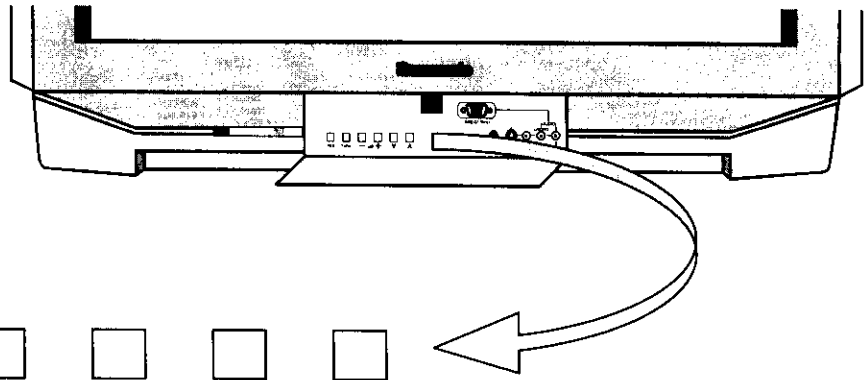
BUTTON   WHAT IT DOES
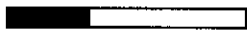
POWER
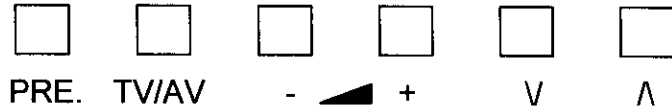This button is used to turn the television on and off. The Indicator light (red) will be on whenever the television is in Stand-By. The light will go out when the television is running or turned OFF using the power button.

PRE.

PRE. (Preset)
The button is used to select various functions. Push the button to select the following functions sequentially:

SYS Select   See page 21
Auto Tune   See page 22
Manual Tune   See page 23
POS. Setup   See page 27
Geomagnetic   See page 24

TV/AV

TV / AV
Pressing the TV/AV button will cycle between TV, AV1, AV2, AV3, AV4, RGB and back to TV. If the RGB Skip is turned on then RGB will not be selected. Please refer to page 17.

-

This button is used to decrease the volume. It is also used with the PRE. button to select, change or adjust function settings.

+

This button is used to increase the volume. It is also used with the PRE. button to select, change or adjust function settings.

V

V
This button is used to select the next lower programme number.

Λ

Λ
This button is used to select the next higher programme number.

Note:
When the television is in Stand-By it is possible to turn it back on by pressing the Programme Number UP or DOWN button.

Television Remote Control Buttons

Panasonic

Television Remote Control Buttons

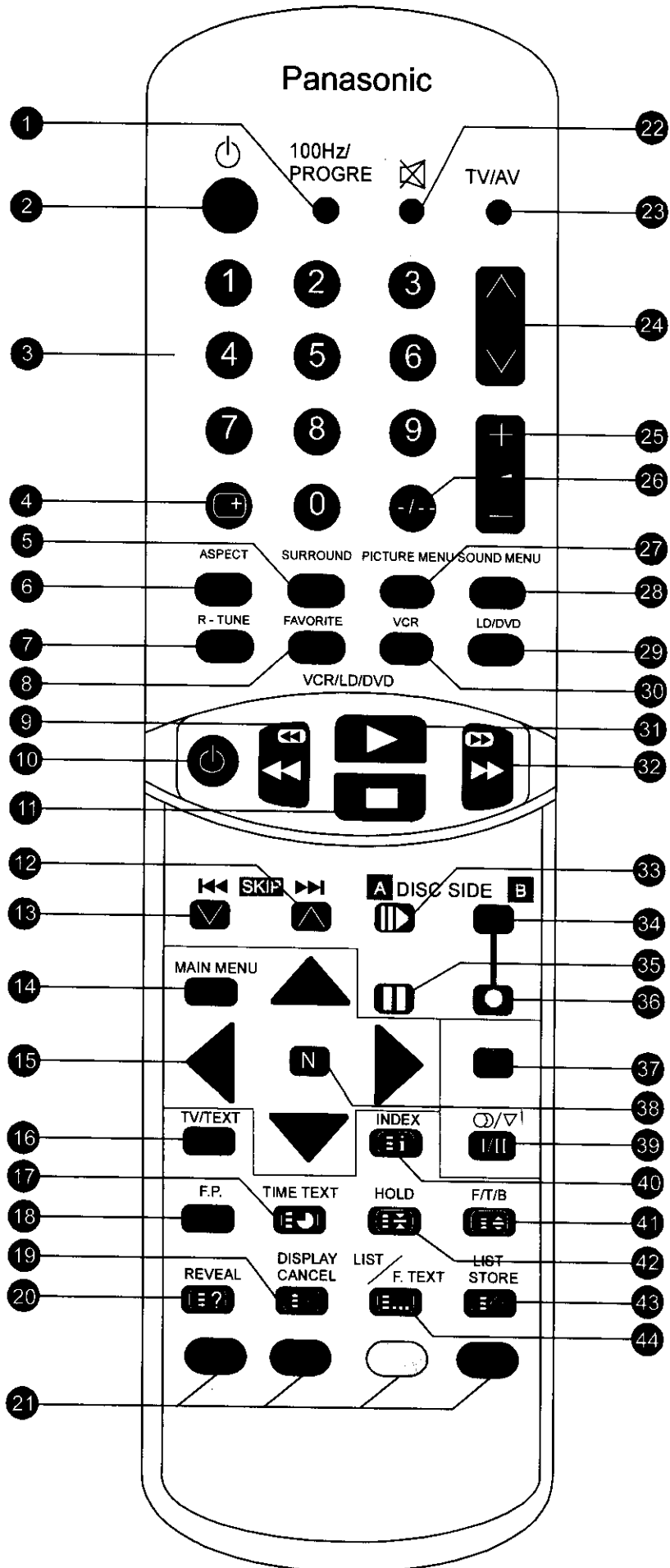| Item No.	Function	Refer to Page
1	100Hz / Progressive	10
2	Power Standby	10
3	Direct Programme Number	10
4	Recall	10
5	Surround	10
6	Aspect	10
7	Rapid Tune	10
8	Favorite	10
9	VCR/LD/DVD Rewind/Review	31
10	VCR/LD/DVD Stand-by	31
11	VCR/LD/DVD Stop	31
12	Programme Number Up (VCR) / Skip Forward (LD/DVD)	31
13	Programme Number Down (VCR) / Skip Back (LD/DVD)	31
14	Main Menu	11
15	Position button	11
16	TV/TEXT	29
17	Time TEXT	29
18	Favourite Page	29
19	Display Cancel	30
20	Reveal	30
21	Colour Coded buttons	30
22	Sound Mute	11

Item No.	Function	Refer to Page
23	TV/AV Mode Selection	11
24	Programme Number Up/Down	11
25	Volume Up/Down	11
26	Two Digit Programme Number Selection	11
27	Picture Menu	11
28	Sound Menu	12
29	LD/DVD Select	31
30	VCR Select	31
31	VCR/LD/DVD Play	31
32	VCR/LD/DVD Fast Forward/Cue	31
33	Still / Advance (VCR) / Disc Side A Selection (LD/DVD)	31
34	Disc Side B Selection (LD/DVD)	31
35	Pause / Still	31
36	Record	31
37	Off Timer	12
38	Normalisation	12
39	Stereo / Mono	12
40	Index	30
41	Full/Top/Bottom	30
42	Hold	30
43	List/Store	30
44	List/Fast Text (Top Text)	30

Television Remote Control Buttons

100Hz/PROGRE

100Hz / Progressive
This button allows you to change the Picture refresh setting between AUTO, 100Hz MODE and PROGRESSIVE.

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.

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.

RECALL
This button operates in three stages.

Stage 1 - Pressing this button will display all current active functions. The functions that can be displayed include Stereo or Mono, Scan Setting, Aspect Ratio, AV Number, Programme Number, Sound Option, Picture Option, and Off-Timer setting. After about 2 seconds it automatically switches to stage 2.

Stage 2 - Pressing the button again displays the Programme Number or the AV Number and the Off-Timer setting.

Stage 3 - Pressing for the third time cancels the recall function and **removes the text being displayed on the screen.**

SURROUND

SURROUND
Surround sound is designed to recreate the spatial effect of a movie theatre or concert hall. It brings added depth to the sound from your television.

Pressing this button switches between OFF, VIRTUAL and SPATIAL. Please refer to page 16

ASPECT

ASPECT
This button is used to move through the different aspect ratios. The Aspect ratios available are AUTO, 16:9, 14:9, JUST, 4:3, ZOOM1 and ZOOM 2. Please refer to page 28.

R-TUNE

R – TUNE (Rapid Tune)
This button is used to swap between the channel you are now watching and the last channel you were watching. This function does not work with AV.

FAVORITE

FAVORITE
This button allows you to access your favourite channels. Please refer to page 19 for more information.

Remote Control Television Operation
BUTTON   WHAT IT DOES

MAIN MENU

MAIN MENU
Pushing this button allows you to access the following options: -

PICTURE	see page 14
SOUND	see page 15
FEATURES	see page 17
PRESET	see page 21
LANGUAGE	see page 18

▲ ▼ ◄ ►

Position Buttons
These buttons (Up, Down, Left and Right) are used to select menu options and change levels of selected functions.

Sound MUTE
Pressing this button reduces the sound from the television to nil. The mute symbol will appear on the screen.
Pressing the button again returns the sound to the original setting. Pressing the Volume Up (+) will also restore the volume level setting.

TV/AV

TV / AV
Pressing the TV/AV button will cycle between TV, AV1, AV2, AV3, AV4, RGB and back to TV. If the RGB Skip is turned on then RGB will not be selected. Please refer to page 17.

Programme Number UP and DOWN
Pressing this button selects the next higher (∧) or lower (∨) Programme Number in sequence. Programme Numbers which have been "Skipped" (See page 27) will be bypassed when this button is used.

Volume UP and DOWN
This button is used to increase (+) or decrease (-) the volume output level from the television. The volume level is shown on the screen as a green indicator and as a number (0 ~ 100).

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:
Press the "- / - -" button, followed by the "1" and the "2".

PICTURE MENU

PICTURE MENU
The Picture Menu button allows you to select one of three different picture modes (Dynamic, Standard, and Soft).

DYNAMIC	For viewing in brightly lit rooms. This menu selects higher than normal levels of Brightness and Contrast.
STANDARD	For viewing in normal (evening lighting) environments. This menu selects normal levels of Brightness and Contrast.
SOFT	For viewing in a dark room. This menu selects reduced levels of Brightness and Contrast.

Television Remote Control Buttons

SOUND MENU

SOUND MENU
The Sound Menu button allows you to choose between three different sound modes (Dynamic, Standard and Soft).

DYNAMIC: Used where music and speech are fairly evenly spread.

STANDARD: Used where music is more common than speech such as musicals, video clips etc.

SOFT: Used where speech is more common than music such as talk shows, news broadcasts etc.

OFF-TIMER
Pressing the Off-Timer allows the television to be preset to turn off after a period of time. The timer settings (in minutes) are: 30, 60 and 90.

Setting the Off-Timer to AUTO will cause the television to go into Standby five minutes after the television broadcast station you are tuned to stops transmitting.

Setting the OFF-TIMER to 0 cancels the timer operation.

CD/∇

I/II

Stereo / Mono
Pushing the button changes the mode from Stereo to Mono 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 on one signal. Switching between the Main (I) and (II) selects the desired language.
* **Note:** Bilingual sound is not currently available.
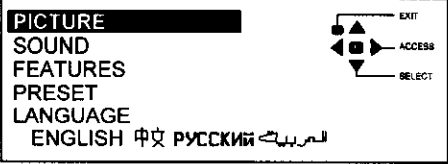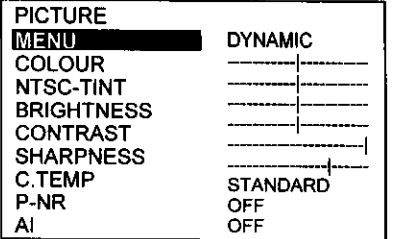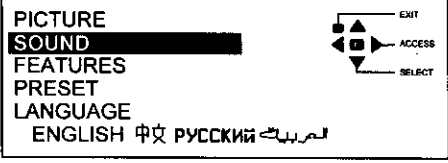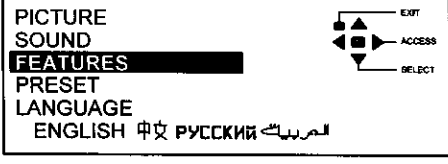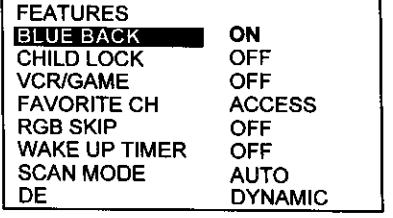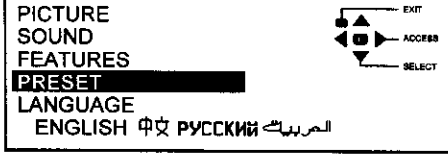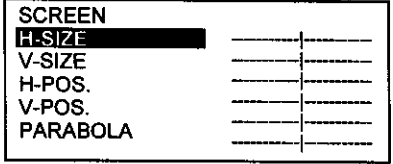
N
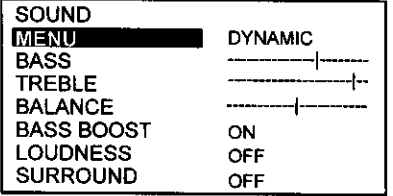
Normalisation
The Normalisation button is used to reset the television to factory set levels. Colour, Sharpness, Contrast, Brightness, Treble, Bass and Balance will be reset. The button will only operate if the menu is displayed on the screen.

Main Menu

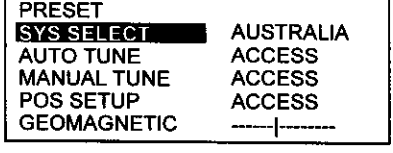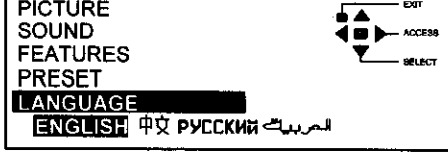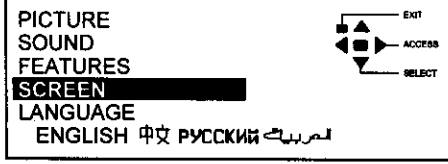| Menu	On Screen Indication
Picture See Page 14.	**PICTURE** SOUND FEATURES PRESET LANGUAGE ENGLISH 中文 РУССКИЙ العربية EXIT ACCESS SELECT * Only when an NTSC signal is received. * PICTURE **MENU** DYNAMIC COLOUR NTSC-TINT BRIGHTNESS CONTRAST SHARPNESS C.TEMP STANDARD P-NR OFF AI OFF
Sound See Page 15.	PICTURE **SOUND** FEATURES PRESET LANGUAGE ENGLISH 中文 РУССКИЙ العربية EXIT ACCESS SELECT SOUND **MENU** DYNAMIC BASS TREBLE BALANCE BASS BOOST ON LOUDNESS OFF SURROUND OFF
Features See Page 17.	PICTURE SOUND **FEATURES** PRESET LANGUAGE ENGLISH 中文 РУССКИЙ العربية EXIT ACCESS SELECT FEATURES **BLUE BACK** ON CHILD LOCK OFF VCR/GAME OFF FAVORITE CH ACCESS RGB SKIP OFF WAKE UP TIMER OFF SCAN MODE AUTO DE DYNAMIC
Preset See Page 21.	PICTURE SOUND FEATURES **PRESET** LANGUAGE ENGLISH 中文 РУССКИЙ العربية EXIT ACCESS SELECT PRESET **SYS SELECT** AUSTRALIA AUTO TUNE ACCESS MANUAL TUNE ACCESS POS SETUP ACCESS GEOMAGNETIC
Language See Page 18.	PICTURE SOUND FEATURES PRESET **LANGUAGE** **ENGLISH** 中文 РУССКИЙ العربية EXIT ACCESS SELECT
RGB Mode See Page 18.	PICTURE SOUND FEATURES **SCREEN** LANGUAGE ENGLISH 中文 РУССКИЙ العربية EXIT ACCESS SELECT SCREEN **H-SIZE** V-SIZE H-POS. V-POS. PARABOLA

Main Menu - Picture

EXIT

ACCESS

SELECT

1. Push the MAIN MENU button.
2. Move to the PICTURE Menu using the Up (▲) or Down (▼) button.
3. Choose the PICTURE Menu by using the Left (◄) or Right (►) buttons.
4. Choose the function to change using the Up (▲) or Down (▼) button.
5. Adjust the setting of the function using the Left (◄) or Right (►) buttons.
6. Push the MAIN MENU button repeatedly until you return to normal viewing.

Picture Menu	Function
DYNAMIC	For viewing in brightly lit rooms. This menu selects higher than normal levels of Brightness and Contrast.
STANDARD	For viewing in normal (evening lighting) environments. This menu selects normal levels of Brightness and Contrast.
SOFT	For viewing in a dark room. This menu selects reduced levels of Brightness and Contrast.

Notes:

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

2. NTSC-Tint adjustment is possible only if an NTSC picture is being viewed.

Item	Effect		Indicator
COLOUR	◄ Less	► More	COLOUR ------|---- 55
NTSC-TINT	◄ Reddish	► Greenish	NTSC-TINT -----|----- 50
BRIGHT	◄ Darker	► Brighter	BRIGHTNESS -----|----- 50
CONTRAST	◄ Less	► More	CONTRAST -------|--- 70
SHARPNESS	◄ Softer	► Sharper	SHARPNESS ---|-------- 24
COLOUR TEMP	◄ Change ►		Standard ► Cool ► Warm
P – NR	◄ Change ►		ON ► OFF
AI	◄ Change ►		ON ► OFF

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

P - NR
The Picture Noise Reduction system is designed to reduce picture noise during poor quality reception conditions. Pushing the left or right buttons will change the PNR setting between OFF and ON.

AI
When the AI (Artificial Intelligence) is turned on it continually and precisely detects fine differences in the picture signal. It also detects differences in the brightness, black level and contrast level.
This function automatically adjusts the picture to the best possible quality for the scene and reproduces images that provide a sense of depth.

Normalisation N

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

Main Menu - Sound

EXIT

ACCESS

SELECT
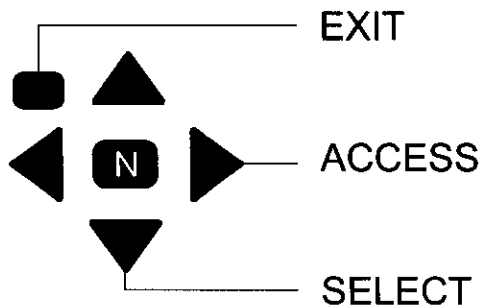
1. Push the MAIN MENU button.
2. Move to the SOUND Menu using the Up (▲) or Down (▼) button.
3. Choose the SOUND Menu by using the Left (◄) or Right (►) buttons.
4. Choose the function to change using the Up (▲) or Down (▼) button.
5. Adjust the setting of the function using the Left (◄) or Right (►) buttons.
6. Push the MAIN MENU repeatedly until you return to normal viewing.

Sound Menu	Function
DYNAMIC	Amplifies the Low Frequencies and outputs optimum sound. Used where music is more common than speech such as musicals, video clips etc.
STANDARD	Used where speech is more common than music such as talk shows, news etc.
SOFT	Used where music and speech are fairly evenly spread.

Note: Sound menu levels can be set for TV, AV1, AV2, AV3, AV4 and RGB modes.

Item	Effect		Indicator / Operation
BASS	◄ Less	► More	BASS ------|----- 12 Not adjustable in VIRTUAL Mode.
TREBLE	◄ Less	► More	TREBLE --------|--- 18 Not adjustable in VIRTUAL Mode.
BALANCE	◄ Left	► Right	BALANCE ------|----- 32
BASS BOOST	◄ Off	► On	Used to increase the Bass level.
LOUDNESS	◄ Off	► On	Used to increase the Bass level at low volume settings.
SURROUND	◄	► Change	Please refer to page 16

Normalisation N

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

Main Menu - Sound
Surround Sound Operation

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround effect operates without external surround speakers

Surround Sound is available if you are tuned to a television station or are using the AV inputs.

The Surround Sound can be switched between OFF, VIRTUAL and SPACIAL.

OFF

Switching the Surround Sound to OFF gives you normal television sound.

VIRTUAL ▢◖

A Virtual 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 center signal equally between the left and right speakers to achieve a Phantom Center 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.

Phantom Centre Speaker

Left Front
Speaker

Right Front
Speaker

Virtual Surround
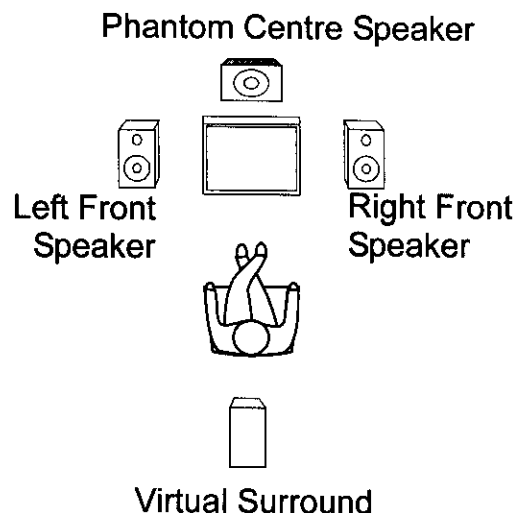
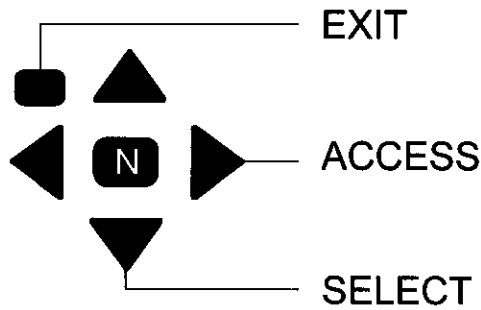Dolby, and the ▢◖ symbol are trademarks of Dolby Laboratories.

SPATIAL

Spatial Surround modes allow various types of surround effects to be produced by mimicking both the direct sound, as heard by the audience, and the sound reflected back from the surroundings.

Main Menu - Features

EXIT

ACCESS

SELECT

1. Push the MAIN MENU button.
2. Move to the FEATURES Menu using the Up (▲) or Down (▼) button.
3. Choose the FEATURES Menu by using the Left (◄) or Right (►) buttons.
4. Choose the function to change using the Up (▲) or Down (▼) button.
5. Adjust the setting of the function using the Left (◄) or Right (►) buttons.
6. Push the MAIN MENU button repeatedly until you return to normal viewing.

BLUEBACK

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 BLUEBACK off when watching a videotape when CUE or REVIEW has been selected.

CHILD LOCK

This allows you to "lock out" a channel to prevent a child from watching a particular programme. Select the channel to be locked before pressing the Main Menu button. Use the Left (◄) or Right (►) button to switch CHILD LOCK ON and OFF.

VCR/GAME

Reproduction of irregular signals such as certain video games or some rental videotapes may be improved by turning the VCR/GAME feature On. Use the Left (◄) or Right (►) button to switch VCR/GAME ON and OFF.

FAVORITE CH

This feature allows you to store up to nine programmes in preferred channel positions. Please refer to Page 19.

RGB SKIP

With this feature turned ON RGB will not be an option when you cycle through the AV inputs. Turn the RGB SKIP ON or OFF using the Left (◄) or Right (►) buttons.

WAKE UP TIMER

This feature allows you to preprogram the television to turn ON after a period of time. Please refer to Page 20.

SCAN MODE

This feature lets you change the screen refresh method. Please refer to Page 20.

DE

Detail Enhancement.
This function changes the apparent sharpness of the picture and enhances details in the picture. Use the Left (◄) or Right (►) button to switch the DE between DYNAMIC, STANDARD and SOFT.

Main Menu - Language

This feature allows you to change the language used for the On-Screen display. You can choose between English, Chinese, Russian and Arabic.

EXIT

ACCESS

SELECT
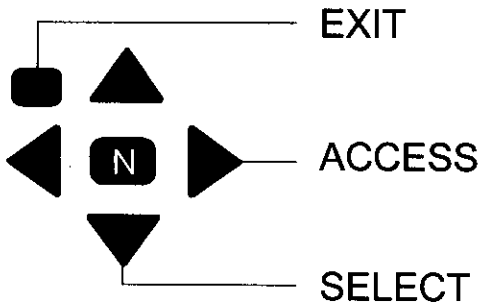
1. Push the MAIN MENU button.
2. Move to the LANGUAGE Menu using the Up (▲) or Down (▼) button.
3. Change the LANGUAGE by using the Left (◄) or Right (►) buttons.
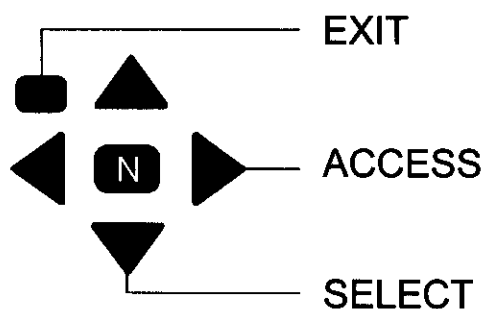4. Push the MAIN MENU button to return to normal viewing.

Main Menu - Screen

This option is only available in RGB mode. It allows you to adjust the screen settings when the television is used as a computer monitor.

Function	◄	►
H – SIZE		
V – SIZE		
H – POS		
V – POS		
PARABOLA		

Main Menu – Features
How to set FAVORITE CH Mode

EXIT

ACCESS

SELECT

1.   Push the MAIN MENU button.

2.   Move to the FEATURES Menu using the Up (▲) or Down (▼) button.

3.   Choose the FEATURES Menu by using the Left (◄) or Right (►) buttons.

4.   Move to the FAVORITE CH function using the Up (▲) or Down (▼) button.

5.   Move to the Channel position using the Left (◄) or Right (►) buttons.

6.   Key in your preferred channel number. You can use the direct access numbers (0 ~ 9) on the remote control, the position Up and Down buttons on the remote control or the Channel Up or Down buttons on the front panel.

FAVORITE CH		
1: - -	2: - -	3: - -
4: - -	5: - -	6: - -
7: - -	8: - -	9: - -

7.   Press the Main Menu button repeatedly to return to normal viewing.

How to use FAVORITE CH

1.   Press the FAVORITE button on the remote control.

2.   Use the Programme Number Up (∧) or Down (∨) buttons or press the direct Programme Number (0-9) to select any of the preferred channels that have been stored.

How to Cancel Favorite CH

1.   Push the MAIN MENU button.

2.   Move to the FEATURES Menu using the Up (▲) or Down (▼) button.

3.   Choose the FEATURES Menu by using the Left (◄) or Right (►) buttons.

4.   Choose the FAVORITE CH function using the Up (▲) or Down (▼) button.

5.   Move to the number to be cancelled using the Left (◄) or Right (►) buttons.

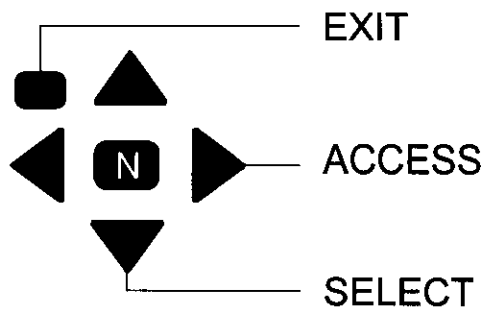6.   Press the Normal (N) button to cancel the setting.

Notes:

FAVORITE CH is not available in text mode.

All FAVORITE CH entries will be reset after Auto Tune (Please refer to page 22).

Features Menu – Wake Up Timer

The television can be programmed to turn itself ON after a period of time.

EXIT

ACCESS

SELECT

1. Push the MAIN MENU button.
2. Move to the FEATURES Menu using the Up (▲) or Down (▼) button.
3. Choose the FEATURES Menu by using the Left (◄) or Right (►) buttons.
4. Move to the WAKE UP TIMER function using the Up (▲) or Down (▼) button.
5. Press the Left (◄) or Right (►) buttons to set the time delay.
6. The Left button will decrease the time by ten minutes each time you press it. The Right button will increase the time by ten minutes each time you press it.

7. 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.
8. When the Wake Up time has elapsed, the television will turn ON.
9. 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).

Notes:
1. The wake up timer can be set for up to 12 hours.
2. 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.
3. 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.

Features Menu – SCAN MODE

This feature lets you change the screen refresh method.
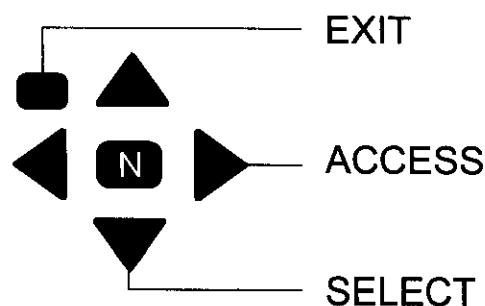
EXIT

ACCESS

SELECT

1. Push the MAIN MENU button.
2. Move to the FEATURES Menu using the Up (▲) or Down (▼) button.
3. Choose the FEATURES Menu by using the Left (◄) or Right (►) buttons.
4. Move to the SCAN MODE function using the Up (▲) or Down (▼) button.
5. Press the Left (◄) or Right (►) buttons to set the mode.
6. You can change between AUTO, 100Hz, and PROGRESSIVE.
7. This change can also be carried out using the 100Hz/PROGRE button on the remote control.

Notes:

We recommend that you set Scan Mode to Progressive when viewing NTSC transmission.

When viewing a PAL transmission (other than PAL 60) with Scan Mode set to Progressive, the screen will flicker, this is not a fault.

When viewing a TV program with moving characters, to avoid "shaking / jagged" effect, the best choice is to select a progressive scan.

Main Menu - Preset

Using the Remote Control

1. Push the MAIN MENU button.
2. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
3. Choose the PRESET Menu by using the Left (◄) or Right (►) buttons.
4. Choose the function to change using the Up (▲) or Down (▼) button.
5. Adjust the setting of the function using the Left (◄) or Right (►) buttons.
6. Push the MAIN MENU button repeatedly until you return to normal viewing.

Using the Front Panel Controls

1. Open the front door.
2. Press the PRE. button once. The PRESET Menu will be displayed.
2. Choose the function to change using the PRE. button.
3. Adjust the setting of the function using the Volume Up (+) or Down (-) buttons.
4. Push the PRE. button repeatedly until you return to normal viewing.

SYS SELECT

The television has two system modes: Australian and New Zealand / Indonesian.
Use the Left (◄) or Right (►) buttons to switch between AUSTRALIA and NZ/INDONES.

AUTO TUNE

Used to automatically retune all programme location numbers.
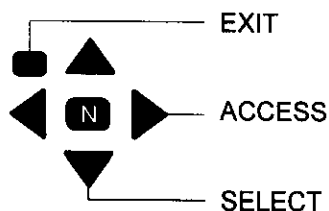Please refer to page 22.

MANUAL TUNE

Used to manually retune individual programme location numbers.
Please refer to page 23.

POS. SETUP

This option opens a new menu giving access to COLOUR SYS, FINE TUNE, SKIP, AVL and CH COLOUR SET.
Please refer to page 26.

```
            ┌──── EXIT
        ● ▲
    ◄ [N] ►──── ACCESS
        ▼
            └──── SELECT
```

```
┌─────────────────────────────────────┐
│ POS. SETUP                           │
│ COLOUR SYS          AUTO             │
│ FINE TUNE           ACCESS           │
│ SKIP                OFF              │
│ AVL                 ON               │
│ CH COLOUR SET       ----------|----------  │
└─────────────────────────────────────┘
```

GEOMAGNETIC

All televisions, particularly large screen televisions, are affected by the earth's Magnetic Field. The symptom may show up as blurring of colours or strange discoloured patches. The location and direction of the television can add to the interference problem. The Geomagnetic Correction option can be used to overcome some of these effects.
Please refer to page 24.
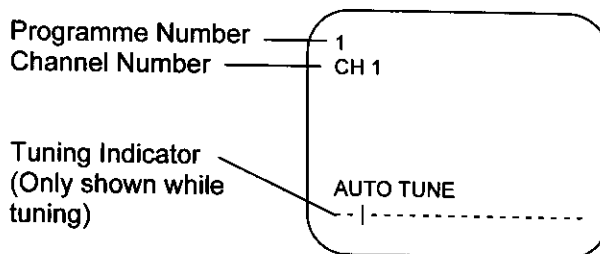
Main Menu – Preset
AUTO TUNE

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 Tune" on page 23 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 starting with location 1.

Auto Tuning Using the Front Panel Controls

1. Open the front panel door.

2. Push the PRE. button repeatedly until AUTO TUNE is highlighted.

3. Press the Volume Up (+) button to start the Auto Tune. Auto Tune will automatically allocate each received broadcast signal to a sequential Programme Number. The operation will cease when all available channels have been tuned.

```
Programme Number ───────┌─ 1
Channel Number   ───────┼─ CH 1


Tuning Indicator ╲
(Only shown while        AUTO TUNE
tuning)                  ─ | ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
```

4. Push the PRE. button repeatedly until you return to normal viewing.

Auto Tuning Using the Remote Control

```
PRESET
SYS SELECT       AUSTRALIA
AUTO TUNE        ACCESS
MANUAL           ACCESS
POS              ACCESS
GEOMAGNETIC      ───────|───────
```

1. Push the MAIN MENU button.
2. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
3. Choose the PRESET Menu by using the Left (◄) or Right (►) buttons.
4. Push the Up (▲) or Down (▼) button to access the AUTO TUNE option.
5. Press the Right (►) button to start the Auto Tune. Auto Tune will automatically allocate each received broadcast signal to a sequential Programme Number. The operation will cease when all available channels have been tuned.
6. Push the MAIN MENU button repeatedly until you return to normal viewing.

After you have finished with the automatic tuning and returned to normal viewing, push the Programme Number Up (▲) button to confirm the tuning condition for each Programme Number. If a Programme Number is unwanted, it is possible to "SKIP" or bypass that Programme Number. Please refer to "SKIP" setting details on page 27.

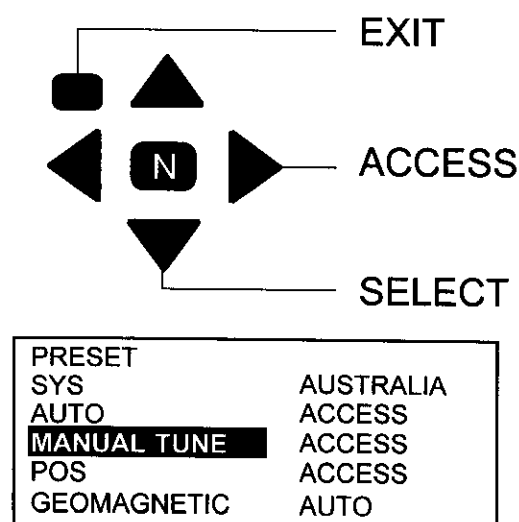## Main Menu – Preset
MANUAL TUNE

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.

Manual Tuning Using the Front Panel Controls

1. Open the front panel door.
2. Use the front panel Programme Number Up (Λ) or Down (V) buttons to select the Programme Location Number you want to tune.
3. Push the PRE. button repeatedly until MANUAL TUNE is highlighted.
4. Press the Volume Up (+) or Volume Down (-) button to start the Manual Tune.
5. If you do not want to save this broadcast station in this programme location number, repeat step 4.
6. When you are satisfied with your selection push the PRE. button repeatedly until you return to normal viewing.

Manual Tuning Using the Remote Control

EXIT

ACCESS

SELECT

PRESET	
SYS	AUSTRALIA
AUTO	ACCESS
MANUAL TUNE	ACCESS
POS	ACCESS
GEOMAGNETIC	AUTO

1. Use the front panel or remote control Programme Number Up (Λ) or Down (V) buttons to select the Programme Location Number you want to tune.
2. Push the MAIN MENU button.
3. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
4. Choose the PRESET Menu by using the Left (◄) or Right (►) buttons.
5. Push the Up (▲) or Down (▼) button to access the MANUAL TUNE option.
6. Push the Left (◄) or Right (►) button to start the Manual Tune.
7. If you do not want to save this broadcast station in this programme location number, repeat step 6.
8. Push the MAIN MENU button repeatedly until you return 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 it has one, to On (refer to your VCR operating instructions).
2. Use the Manual Tuning procedure above. The television will treat the VCR as if it was a normal television broadcast station.

NOTES:
1. 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 34.
2. The picture and sound quality are usually much better if the VCR is connected using the AV Terminals. Please refer to page 34.

Main Menu – Preset
GEOMAGNETIC

All televisions, particularly large screen televisions, are affected by the earth's Magnetic Field. The symptom may show up as blurring of colours or strange discoloured patches. The location and direction of the television can add to the interference problem.
The Geomagnetic Correction option can be used to overcome some of these effects.

Geomagnetic Correction Using Front Panel Controls

1. Open the front panel door.
2. Push the PRE. button until GEOMAGNETIC is highlighted.
3. Use the front panel Volume Up (+) or Down (-) buttons to adjust for best picture. Pay special attention to the four corners of the picture. The Geomagnetic Correction has a range of -8 to +8.
4. Push the PRE. button repeatedly until you return to normal viewing.

Geomagnetic Correction Using the Remote Control

```
PRESET
SYS             AUSTRALIA
AUTO            ACCESS
MANUAL          ACCESS
POS             ACCESS
GEOMAGNETIC     -------|-------
```

1. Push the MAIN MENU button.
2. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
3. Choose the PRESET Menu by using the Left (◄) or Right (►) buttons.
4. Push the Up (▲) or Down (▼) button to access the GEOMAGNETIC option.
5. Use the Remote Control Programme Left (◄) or Right (►) button to adjust the picture for best colour. Pay special attention to the four corners of the picture. The Geomagnetic Correction has a range of -8 to +8.
6. Push the MAIN MENU button repeatedly until you return to normal viewing.

Special Note

1. If the adjustment still allows coloured patches on the screen, turn the mains power off for about 30 minutes.
2. In some cases the geomagnetic adjustment will not completely eliminate the interference. In this situation it will be necessary to relocate the television.

Main Menu - Preset
POS. Setup

Using the Remote Control

1. Push the MAIN MENU button.
2. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
3. Choose the PRESET Menu by using the Left (◄) or Right (►) buttons.
4. Move to the POS Setup menu using the Up (▲) or Down (▼) button.
5. Choose the POS Setup menu using the Left (◄) or Right (►) buttons.
6. Choose the function to change using the Up (▲) or Down (▼) button.
7. Adjust the setting of the function using the Left (◄) or Right (►) buttons.
8. Push the MAIN MENU button repeatedly until you return to normal viewing.

Using the Front Panel Controls

1. Open the front door.
2. Press the PRE. until the POS.SETUP Menu is highlighted.
3. Choose the POS.SETUP Menu by using the Volume Up (+) or Down (-) buttons.
4. Choose the function to change using the PRE. button.
5. Adjust the setting of the function using the Volume Up (+) or Down (-) buttons.
6. Push the PRE. button repeatedly until you return to normal viewing.

```
POS. SETUP
COLOUR SYS        AUTO
FINE TUNE         ACCESS
SKIP              OFF
AVL               ON
CH COLOUR SET     ----------|----------
```

COLOUR SYS

If a clear picture with correct colours cannot be obtained, a change to the Colour System may improve the picture. The Colour SYS is normally set to AUTO and generally does not need to be changed.
Please refer to page 26.

FINE TUNE

In areas of poor reception or constant interference a slight adjustment to the tuning may improve the picture quality.
Please refer to 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 pressed. The use of the remote control Direct Programme Number buttons overrides the Skip function.
Please refer to page 27.

AVL

The AVL function is used to prevent sudden increases in volume such as explosions etc. in movies. You can adjust the volume to a level where you can hear whispers on the television and all other sounds are at the same volume level. This feature is very useful when watching late at night and you do not want to disturb anyone else in the house.
Use the (◄) or Right (►) buttons to switch the AVL On or Off.

CH COLOUR SET

Colour density can vary between broadcast channels. These variations can be compensated for by adjusting the CH COLOUR SET. You can adjust the colour density for each channel received. Use the Left (◄) or Right (►) buttons to choose the best option from three settings.

POS. Setup
COLOUR SYS

If a clear picture with correct colours cannot be obtained, a change to the Colour System may improve the picture. The COLOUR SYS options are AUTO, PAL, NTSC 4.43 and NTSC 3.58. The OLOUR SYS is normally set to AUTO and generally does not need to be changed.

Using the Remote Control

1. Push the MAIN MENU button.
   Move to the PRESET Menu using the Up (▲) or Down (▼) button.
2. Choose the PRESET Menu by using the Left (◄) or Right (►) buttons.
3. Move to the POS Setup menu using the Up (▲) or Down (▼) button.
4. Choose the POS Setup menu using the Left (◄) or Right (►) buttons.
5. Use the Up (▲) or Down (▼) button to Choose the COLOR SYS option.
6. Use the Left (◄) or Right (►) buttons to change the COLOUR SYS option.
7. Push the MAIN MENU button repeatedly until you return to normal viewing.

Using the Front Panel Controls

1. Open the front door.
2. Press the PRE. button repeatedly until POS.SETUP is highlighted.
3. Choose the POS.SETUP Menu by using the Volume Up (+) or Down (-) buttons.
4. The COLOR SYS option will be highlighted
5. Use the Volume Up (+) or Down (-) buttons to change the COLOUR SYS option.
6. Push the PRE. button repeatedly until you return to normal viewing.

```
PRESET
SYS SELECT      AUSTRALIA
AUTO TUNE       ACCESS
MANUAL TUNE     ACCESS
POS SETUP       ACCESS
TEXT SELECT     ENGLISH
GEOMAGNETIC     --------|-------
```

RF (Normal television) MODE

```
POS. SETUP
COLOUR SYS      AUTO
FINE TUNE       ACCESS
SKIP            OFF
AVL             ON
CH COLOUR SET   ----------|----------
```

AV (Audio / Video) MODE

```
PRESET SETUP
COLOUR SYS      AUTO
AVL             ON
CH COLOUR SET   ----------|----------
GEOMAGNETIC     ----------|----------
```

POS. Setup
FINE TUNE

In areas of poor reception or constant interference a slight adjustment to the tuning may improve the picture quality. The television should be turned ON and the TV/AV switch set to TV.

Using the Remote Control

1. Push the MAIN MENU button.
2. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
3. Use the Left (◄) or Right (►) buttons to choose the PRESET Menu.
4. Move to the POS Setup menu using the Up (▲) or Down (▼) button.
5. Choose the POS Setup menu using the Left (◄) or Right (►) buttons.
6. Use the Up (▲) or Down (▼) button to choose the FINE TUNE option.
7. Use the Left (◄) or Right (►) buttons to start the fine tuning.
8. The fine tuning symbol (■) will appear to the left of the Programme Location Number indicator.
9. Push the MAIN MENU button repeatedly until you return to normal viewing.

Using the Front Panel Controls

1. Open the front door.
2. Press the PRE. button repeatedly until POS.SETUP is highlighted.
3. Use the Volume Up (+) or Down (-) buttons to choose the POS.SETUP Menu.
4. Use the PRE. button to choose the FINE TUNE option.
5. Use the Volume Up (+) or Down (-) buttons to start the FINE Tuning.
6. The fine tuning symbol (■) will appear to the left of the Programme Location Number indicator.
7. Push the PRE. button repeatedly until you return to normal viewing.

Canceling the FINE TUNE

Follow the Manual Tune procedure on page 23 to cancel the Fine Tuning.

SKIP (On and Off)

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 pressed. The use of the remote control Direct Programme Number Buttons overrides the Skip function.

Using the Remote Control

1. Select the programme number to be skipped.
2. Push the MAIN MENU button.
3. Move to the PRESET Menu using the Up (▲) or Down (▼) button.
4. Use the Left (◄) or Right (►) buttons to choose the PRESET Menu.
5. Move to the POS Setup menu using the Up (▲) or Down (▼) button.
6. Choose the POS Setup menu using the Left (◄) or Right (►) buttons.
7. Use the Up (▲) or Down (▼) button to choose the SKIP option.
8. Use the Left (◄) or Right (►) buttons to turn the SKIP On or Off.
9. Push the MAIN MENU button repeatedly until you return to normal viewing.

Using the Front Panel Controls

1. Select the programme number to be skipped.
2. Open the front door.
3. Press the PRE. button repeatedly until POS.SETUP is highlighted.
4. Use the Volume Up (+) or Down (-) buttons to choose the POS.SETUP Menu.
5. Use the PRE. button to choose the SKIP option.
6. Use the Volume Up (+) or Down (-) buttons to turn the SKIP On or Off.
8. Push the PRE. button repeatedly until you return to normal viewing.
9.

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 and Zoom2.

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 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 4:3picture with no aspect distortion.

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

Zoom 2
This option will display a 16:9 letterbox picture as a full screen display with no aspect distortion.

Note:
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 news and entertainment services are 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 this television.

Teletext is also used for Closed Captioning of television programmes for the hearing impaired. Closed captions can be found on Teletext Page 801.

Not all broadcast stations transmit closed captions or teletext in the same way. Some, but not all, of the methods are listed below:
1. *A teletext screen appears and the closed captions are accessed like any other teletext page.*
2. *The picture remains on the screen while you type in 801.*
3. *The picture disappears while you type in 801. The picture stays black until the page is reached.*
4. *The picture disappears while you type in 801. The picture stays black until a programme containing closed captions is broadcast.*

Some broadcast stations will have a message on the screen to tell you that closed captions are not available for this programme. Some broadcast stations give you no indication at all.

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. Pushing the coloured button can access these subjects. This is the current preferred method of operation in Australia.

FASTEXT 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.

BUTTON WHAT IT DOES

0 ~ 9

PAGE NUMBERS
These buttons allow you to directly enter the page number that you want to view.

TV/TEXT

TV / TEXT
Pressing this button switches the screen between TV and TELETEXT.

F.P.

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.
Press LIST/F TEXT button to change TELETEXT modes (see page 30).
2. Push the Blue button.
3. Select the page number.
4. Push and hold the LIST STORE button.
5. The page number is now stored.
Push F.P. to recall this page.

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.

Please refer to drawing on pages 8 and 9 for location of Teletext Control buttons.

TELETEXT Operation

1. Select Text Mode and choose a page.
2. Push the TIME TEXT 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.
4. Push the Display Cancel button to view the TV picture while waiting for the sub-page to be found.
5. When found, the page number will be displayed the at the top left of the screen. Press the TV/TEXT button twice to display the page.

To clear the page perform one of the following:
- 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.

REVEAL
Some Text pages contain concealed information, e.g. the solution to a puzzle. To reveal this information Push the REVEAL. To hide the information, push the REVEAL button again.

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.

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

PAGE NUMBERS UP AND DOWN
These buttons are used to move to higher or lower page numbers.

INDEX
Pressing this button returns you to the main index page.

F/T/B (FULL / TOP / BOTTOM)
This button is used when difficulty is experienced in reading text on the screen. 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.

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

LIST STORE
In LIST mode the page numbers stored in the four coloured buttons can be changed for each teletext channel. Push a coloured button, enter the page number and push the List Store button to store the page. Keep the button pressed until the coloured numbers at the bottom of the screen change colour.

LIST/ F TEXT
Push the List / F Text button to switch between the List mode and Top of Page mode.

Please refer to drawing on pages 8 and 9 for location of Teletext Control buttons.

Remote Control VCR / LD/DVD Operation

Button	Function	
	VCR	**LD/DVD**
◄◄	**Rewind / Review** Used to rewind the tape. Press during playback to watch the picture in reverse at high speed.	**Rewind / Review** Used to play the disc in reverse while watching the picture.
⏻	**Standby** Used to switch the VCR ON or OFF (Standby).	**Standby** Used to switch the LD/DVD ON or OFF (Standby).
☐	**Stop** Used to stop the VCR.	**Stop** Used to stop the LD/DVD.
⋀	**Programme Up** Used to select the next higher programme number on the VCR.	**Skip Forward** Press once to skip to the next track.
⋁	**Programme Down** Used to select the next lower programme number on the VCR.	**Skip Back** Press once to skip to the previous track.
VCR ⬤ LD/DVD ⬤	**VCR** Selects VCR Control.	**LD/DVD** Selects LD/DVD Control.
▶	**Play** Starts the VCR playing.	**Play** Starts the DVD playing.
▶▶	**Fast Forward / Cue** Press to fast-forward the tape. Press during playback to watch the picture at fast speed.	**Fast Forward / Cue** Used to watch the disc at fast speed.
A ⟮▶	**Still Advance** Used to advance the tape one frame at a time. Used with the Pause button.	**Disc Side A Selection** Used to select the A-side of the disc.
B ⬤		**Disc Side B Selection** Used to select the B-side of the disc.
⬤	**Record** Used to start the VCR recording.	
�II	**Pause** Press once to pause the tape during play. Press again to restart.	**Pause** Press once to pause the disc during play. Press again to restart.

Please refer to drawing on pages 8 and 9 for location of VCR Control buttons.

Remote Control VCR/LD/DVD Operation
Manufacturers' Code Settings

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

1. To set a VCR, press the VCR button.

   To set a LD or DVD, press the LD/DVD button.

2. Push the remote control VCR - LD/DVD Power button and keep it Pushed.

3. Enter the Manufacturer's two-digit code number using the remote control Number buttons (The codes are shown below).

4. Push the STOP button.

5. Release the remote control VCR or LD/DVD Power button.

6. Check the operation of the VCR, LD 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	10, 11, 12, 13	NEC	40, 41, 42, 43
		ORION	45, 46
AIWA	15, 16	Philips	50
FUJITSU	20	SANYO	55, 56, 57, 58
HITACHI	25, 26, 27	SHARP	60, 61
JVC	30, 31, 32	SONY	65, 66, 67
MITSUBISHI	35, 36	TOSHIBA	70, 71

LD CODES

Manufacturer	Code	Manufacturer	Code
Panasonic	10, 11, 12, 13	SAMSUNG	30
KENWOOD	15, 16	SHARP	35
PHILIPS	20	SONY	40, 41, 42, 43
PIONEER	25		

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.

Please refer to drawing on pages 8 and 9 for location of VCR Control buttons.

Front Panel Connections
Headphones

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

When a headphone plug is inserted into the headphone socket the internal speakers will not operate.

RBG Input

Computers and other RGB video sources can be connected to the television through the front AV terminals.
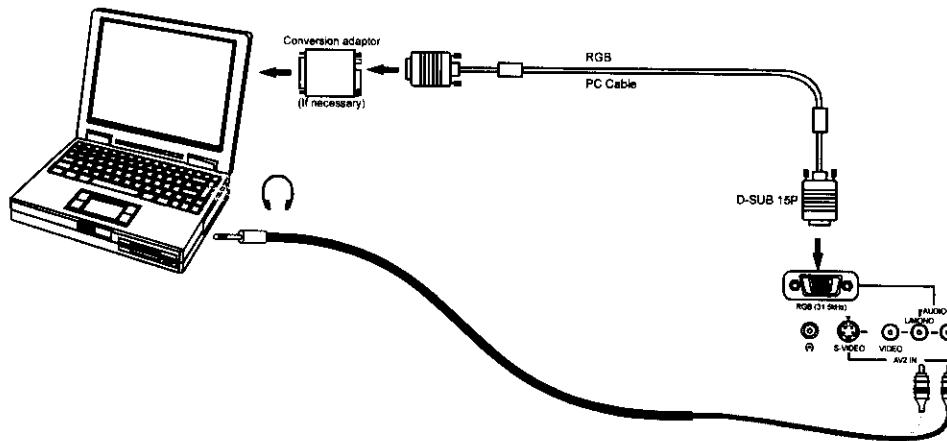
- Personal computers (PC) with 640 x 480 (31.5kHz / 60Hz) or 640 x 400 (31.5kHz / 70Hz) resolution can be connected to this television.
  Note: the display will prompt you to set the resolution to 640 x 480.
- The computer must be set to High Colour (16 bit).
- In some cases other PCs may not work with this TV set.
- There is no audio signal in RGB mode.
- Connect the sound cables to the AV2 Audio Input terminals.
- Some computers such as PC-98 and Macintosh require a commercially sold adapter between the RGB cable (D-Sub 15P) and the computer.
- There is no need for an adapter when using computers with a DOS/V compatible D-Sub 15P terminal.
- With some computers it may be necessary to press Function F4 twice to give a display on the television.
- There are no computer connection cables included with this television.
- The picture's size and position can be adjusted to suit your computer output. Please refer to page 18.

Signal names for D-Sub 15P Connector
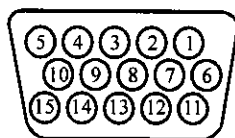
Pin layout for RGB Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND	11	GND
2	G	7	GND	12	NC
3	B	8	GND	13	HD/SYNC
4	GND	9	NC	14	VD
5	GND	10	GND	15	NC

GND is Ground   NC is Not connected

Front Panel Connections
Front AV Inputs

VCRs, cameras, games and other video sources can be connected to the television through the front AV input terminals. When an S-Video cable is connected to an S-Video input terminal, the RCA video terminal for that AV position will be disconnected.

The front panels are particularly useful for temporary connections. For permanent connections we recommend that you use the rear inputs.
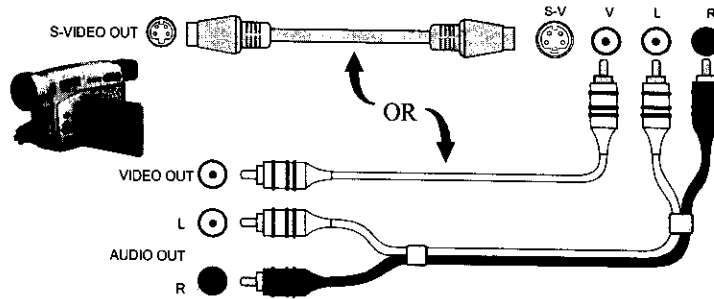
Rear Panel Connections
Connecting a Standard VCR to the Television

Most standard Video Cassette Recorders use RCA type video and audio connectors. If your VCR has different type connectors please refer to your VCR instruction book for details.
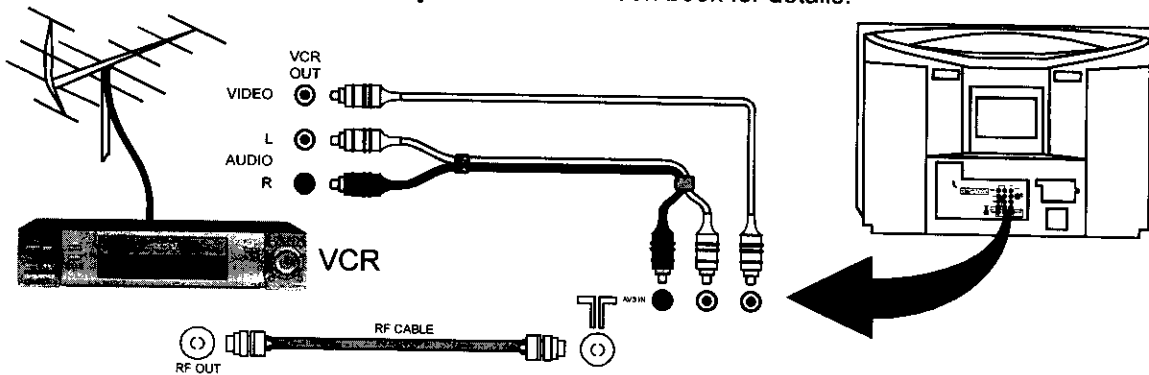
NOTE: A mono VCR can be connected to this television. Connect the VCR Audio out to the Left Audio input on the television. The sound will automatically be directed to both speakers

NOTE: The RF Cable (not supplied) must still be connected.

Connecting an S-Video VCR to the Television

S-Video equipment uses a 4Pin Mini Din (Male) plug for the video and RCA plugs for the audio. When an S-Video cable is connected to an S-Video input terminal, the RCA video terminal for that AV position will be disconnected.

NOTE: The RF Cable (not supplied) must still be connected.

34
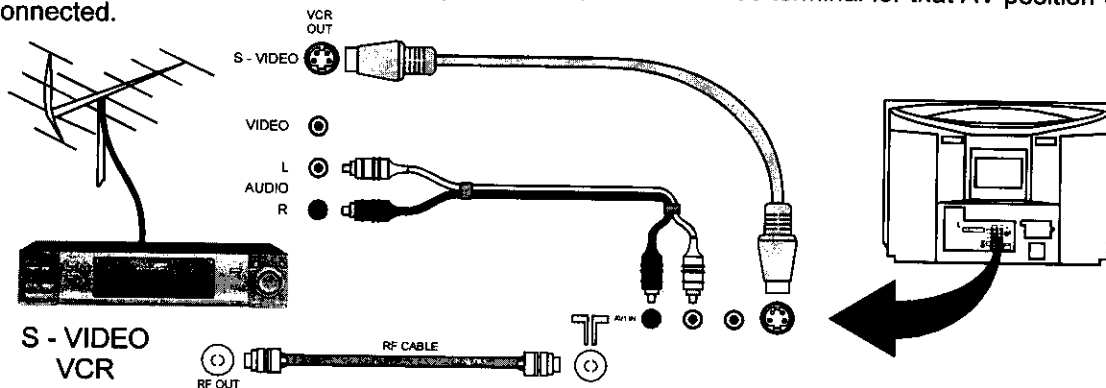
Rear Panel Connections

Connecting a DVD Player to the Television

Most DVD players have both a composite video and YP_BP_R video outputs. The YP_BP_R system produces a better picture and we recommend that you use this output. If your DVD player does not have YP_BP_R output, the next most desirable option is the S-Video Out terminal. Finally, if YP_BP_R and S-Video are not available, use the normal video output.

DVD Connection using S-Video Out

DVD Connection using YP_BP_R

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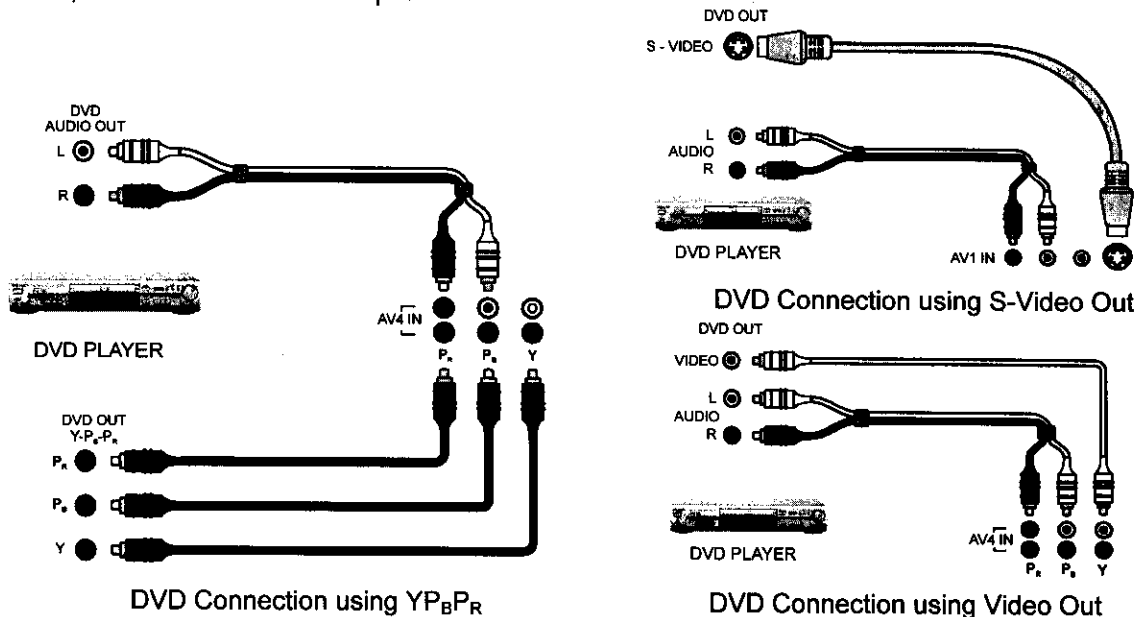
The Monitor Out terminals reproduce the signals currently on the television screen. The on-screen signals could be a television programme or signals connected to one of the AV inputs.

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

Monitor Out

If a video recorder is connected to the Monitor Out and video sources are connected to one or more of the AV inputs, the television becomes a visual display for tape editing or copying.

TV used as a Monitor

VCR

AUDIO AMPLIFIER
(No Video Connection)
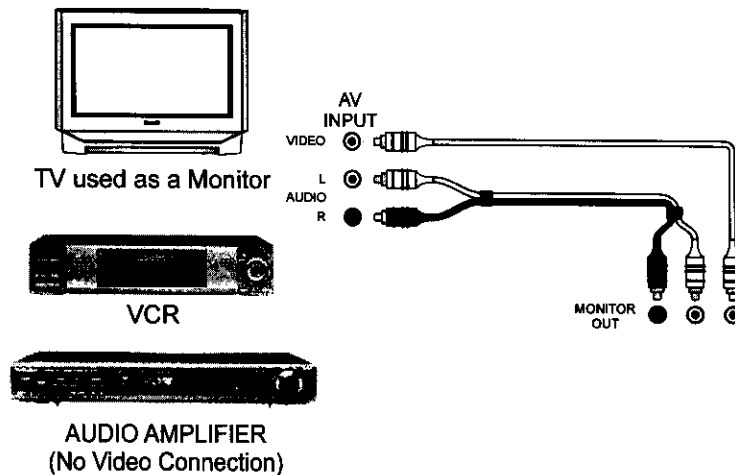
NOTE:
Never connect the same video recorder or other device to both the VIDEO IN and MONITOR OUT terminals of this television as this could cause incorrect operation.

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

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
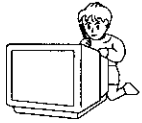
Danger
Do not insert foreign objects. (Keep metal or easily flammable objects out of this television).
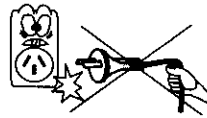
Danger
Always pull the plug out of the wall outlet by holding the plug itself.
Do not pull the plug by the power cord.

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.
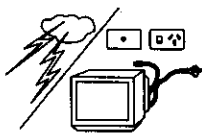
DO NOT touch the aerial cable and metal parts of the television when there is lightning around.
During storms switch the television off. **DO NOT** leave in standby.
Remove the plug from the wall socket.

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.
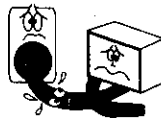
Do not place heavy objects on the power cord.
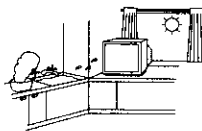
Do not place the TV in humid or dusty locations, or areas exposed to smoke or steam.
Avoid exposing the television to direct sunlight or any other sources of direct heat.
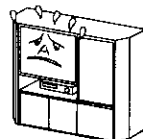
Adequate ventilation is essential.
Allow a gap of at least 10cm around the TV, even in a cabinet or between shelves.

Do not stand or place heavy objects on top of the television.
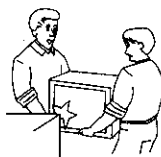
Do not subject the TV to any physical shocks. Always remove any connector cables when moving the TV. When moving the TV from one place to another wrap it in something protective.

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.

Safety First

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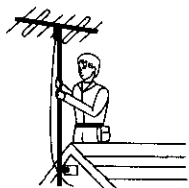
Any external aerial should be installed by a reputable qualified installer and should comply with Australian Standard AS1417.1 or International Standard IEC597-1.1.

Customer Information
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 that 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: **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 22 for automatic tuning and on page 23 for tuning individual stations.

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 page 29.

Question: **I turned my television to Standby with the remote control and then I turned it off with the power switch. I turned the TV back on with the power switch but it's still in Standby and I can't find my remote control. How can I turn the TV back on?**
Answer: Press the front panel Up (Λ) or Down (V) button. See page 7.

Question: **I have done an auto tune because the book told me to. If I am only to do manual search why is automatic search first in the book?**
Answer: The automatic search and the manual search each have specific uses. The reason for each is clearly described in the book. The reason that automatic search is described first is because this is the first option on the screen.

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 nonexistent. The reasons may be:
1. The television station may have stopped transmitting.
2. You may have selected a programme number that 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?**
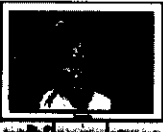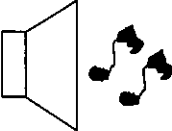**Answer:** The Skip operation only works when you use the Channel Up (Λ) or Down (V) buttons.

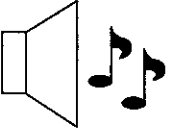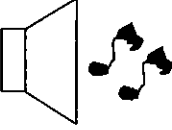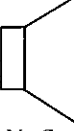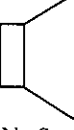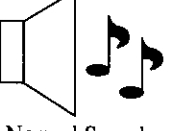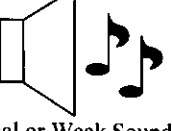**Question:** **When I use the channel up or channel down why don't I get all the channels?**
Answer: Some of the channels may be "Skipped". See page 27.

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.

Customer Information
Troubleshooting

Picture	Sound	Check
Snowy Picture	Noisy Sound	Check 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	Check aerial location, direction or connections.
Interference	Noisy Sound	Can be caused by electrical appliances, motorcycles, cars or fluorescent lamps.
Normal Picture	No Sound	Volume (Check the Mute function) Check the Colour System Mode. Refer to page 26.
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. Check the Colour System Mode. Refer to page 26. If the picture is from a tape playback, try adjusting the tracking.
Scrambled	Normal or Weak Sound	Retune the Television. Refer to pages 22 and 23.
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 with the main power switch and leave it OFF for about 30 minutes. Refer to pages 3 and 24.

Specifications

Receiving Systems	PAL B	Ch1 to Ch69
	PAL 50/60	Playback from Video Tape Recorders.
	M.NTSC	Playback from M.NTSC Video recorders
	NTSC (AV Input only)	Playback from NTSC Video recorders

Power Requirements 220 ~ 240Volts ±10% 50Hz

Power Consumption

	Normal	Standby
TX-76PW150A	173W Max	10W Max
TX-66PW150A	165W Max	9W Max

Chassis MD3W

Tuning System Frequency synthesized.

Picture Tube
TX-76PW150A 76cm Viewable (Measured diagonally)
TX-66PW150A 66 cm Viewable (Measured diagonally)

Audio Output
TX-76PW150A
2 Full Range Speakers plus 3D Woofer 8W + 8W + 8W
TX-66PW150A
2 Full Range Speakers 8W + 8W

Headphone Socket 3.5mm Stereo 8Ω

Aerial Impedance 75Ω Unbalanced coaxial

Video / Audio
S-Video Y: 1.0Vp-p 75Ω C: 0.3Vp-p 75Ω
Video in: 1.0Vp-p, 75Ω Audio in: Approx. 400mV 47kΩ

Monitor Out Video Out: 1.0Vp-p, 75Ω Audio Out: Approx. 400mV 1kΩ

RGB Terminals High-DENSITY D-Sub 15pin

RGB Input 31.5kHz / 60Hz (640 x 480 dot) and 31.5kHz / 70Hz (640 x 400 dot) High Colour (16 Bit)

Accessories Supplied
Remote Control EUR511049
2 Batteries Type 'AA'
Instruction Manual TQB4A0159P

Dimensions
TX-76PW150A	w = 82.7cm	d = 53.5cm	h = 57.9cm
TX-66PW150A	w = 74.5cm	d = 48.6cm	h = 54.3cm

Weight
TX-76PW150A	66kg (Net)
TX-66PW150A	47kg (Net)

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

TQB4A0159P