Panasonic
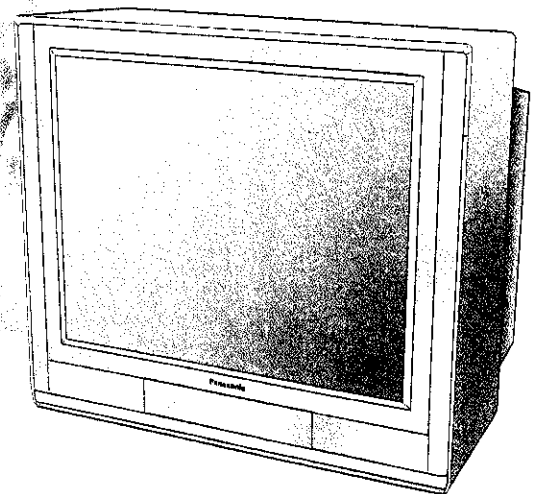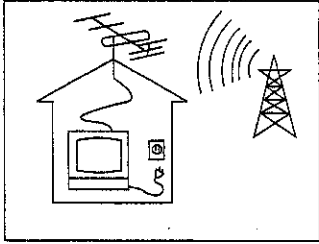
Operating Instruction

Colour Television
TX-68P82Z

Please read the operating instructions completely before operating this set.
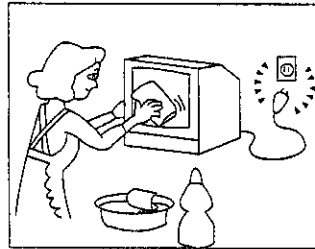
Dear Panasonic customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television.
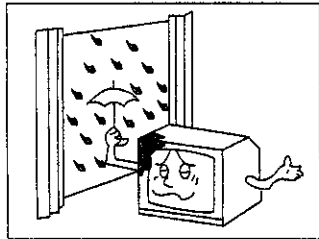
Safety Instructions

The TV set can be operated on AC SINGLE 230V, 50Hz.

The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.
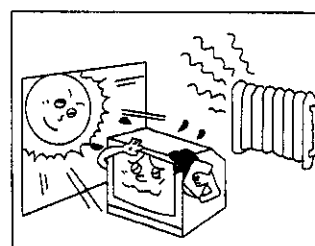
To prevent damage which may result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.
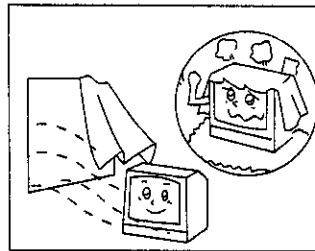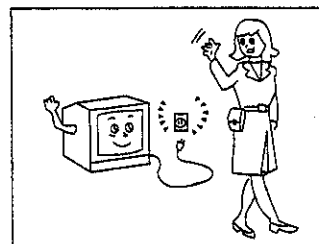
Adequate ventilation is essential to prevent failure of electrical components.
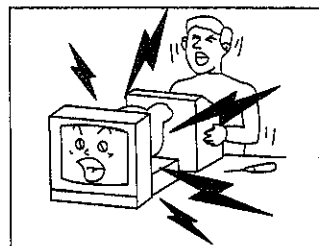
Do not remove the rear cover, as live parts are accessible when it is removed.

Avoid exposing the TV set to direct sunlight and other source of heat.

Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.
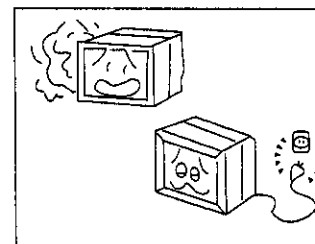
Do not use this set if abnormal operation occurs. EX: smoke, odd sounds or smells, turn the power switch off and disconnect the AC power if you notice any unusual operation.

Connect the Aerial Cable to the RF In Terminal

VHF Aerial

UHF Aerial

Mixer

RF In Terminal

75Ω
Coaxial
Cable

Coaxial Aerial plug
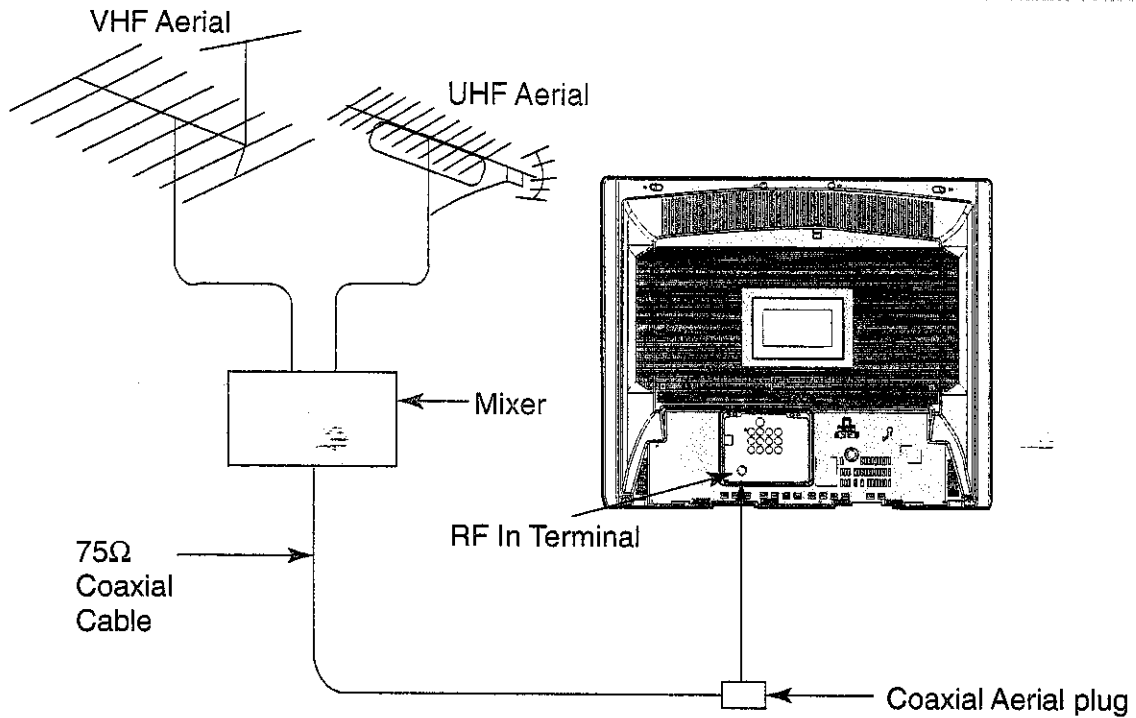
To obtain the best quality picture and sound, an external antenna, the correct cables (75 Ohm coaxial) and the correct terminating plug will be required.

If a communal antenna system is used, you may require the correct connection cable and plugs between the wall antenna socket and your television receiver.

Your local Television Service Dealer may be able to assist you in obtaining the correct antenna system for your particular area and accessories required.

Any matters about antenna installation, upgrading of existing systems or accessories required, and the cost incurred, are the responsibility of the customer.
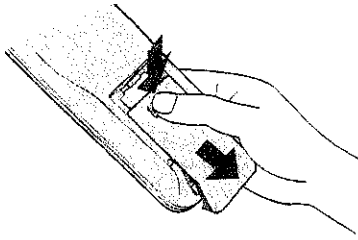
Note:
If your existing antenna system uses 300 Ohm to 75 Ohm Balun, see Below.

300 Ohm to 75 Ohm Balun
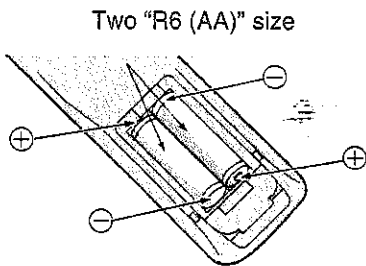
OR

300 Ohm
Ribbon

75 Ohm
Coaxial Cable
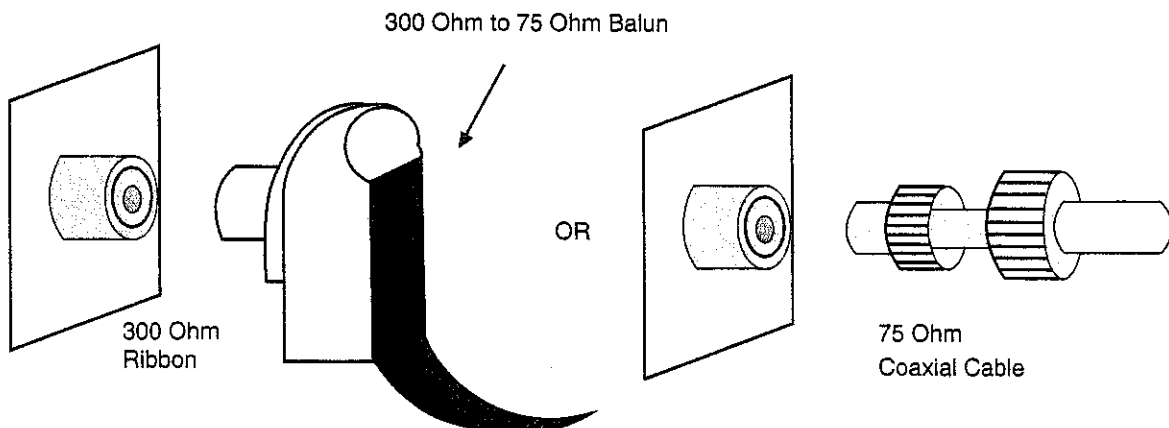
Battery Installation

1.

Open the cover.
Apply slight downward pressure while pulling towards the bottom.
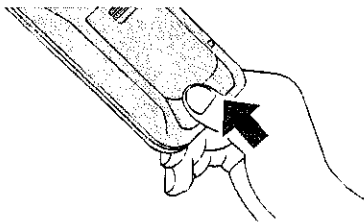
2.

Two "R6 (AA)" size

Batteries: Use two "R6 (AA)" size batteries.
Insert the batteries ensuring correct polarity.
This is identifiable by the "+" and "–" symbols on both the batteries and inside the battery compartment.
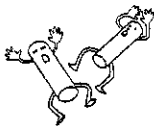
3.

Replace the cover.

Do not use rechargeable (Ni-Cd) batteries.
They are different in shape and performance and may fail to ensure correct operation.

⚠ Battery Cautions

The incorrect use of batteries can cause electrolyte leakage which will corrode the Remote Control or cause the batteries to burst. —
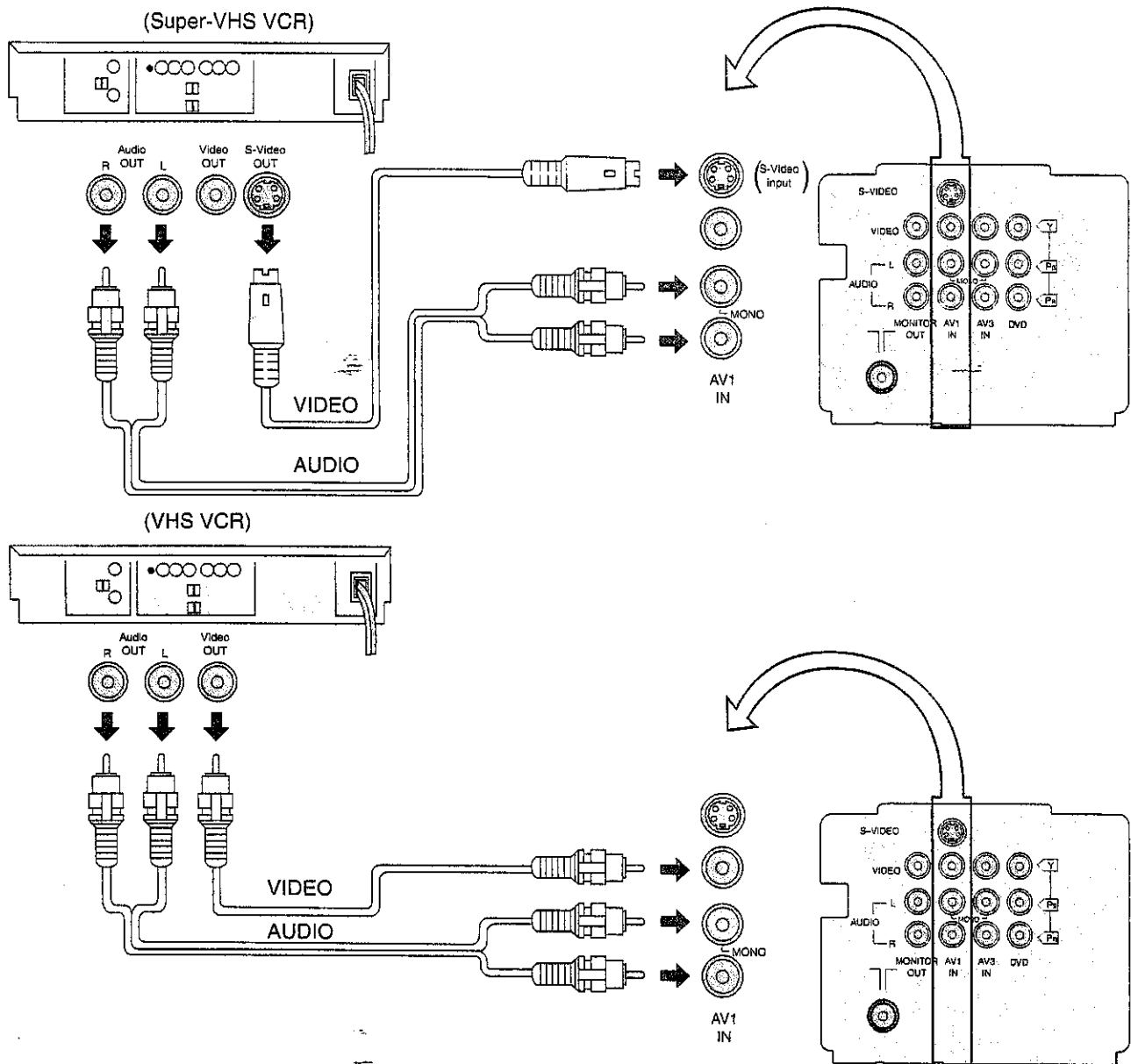
Old Batteries   New Batteries

Replacement both batteries at the same time.   Don't mix battery types   Don't Recharge.
(alkaline with carbon zinc. etc.)

Connections

How to connect the "AV1, AV2 or AV3" Input Terminals

(Super-VHS VCR)

(VHS VCR)

Note:

(1) When AV1, AV2 or AV3 is selected, and that AV mode has no input picture signal, the background Colour of the TV screen will change (This only occur if the Blue-Back function is set to the ON condition).

(2) When an S-Video cable is connected to the S-Video terminal, the Video input will be automatically switched off for the AV mode.

(3) When a Monaural VCR is used, connect the Monaural Audio cable to the Audio "L" (Left) terminal.

(4) Similar connections are available at the AV1, AV2 and AV3 input terminals. Select the desired AV input position by pressing the "TV/AV" button.

(5) The AV3 audio input terminals serves as the audio input terminal for both the video input and for the DVD input.

Connections

How to connect the DVD Input Terminals

DVD Player
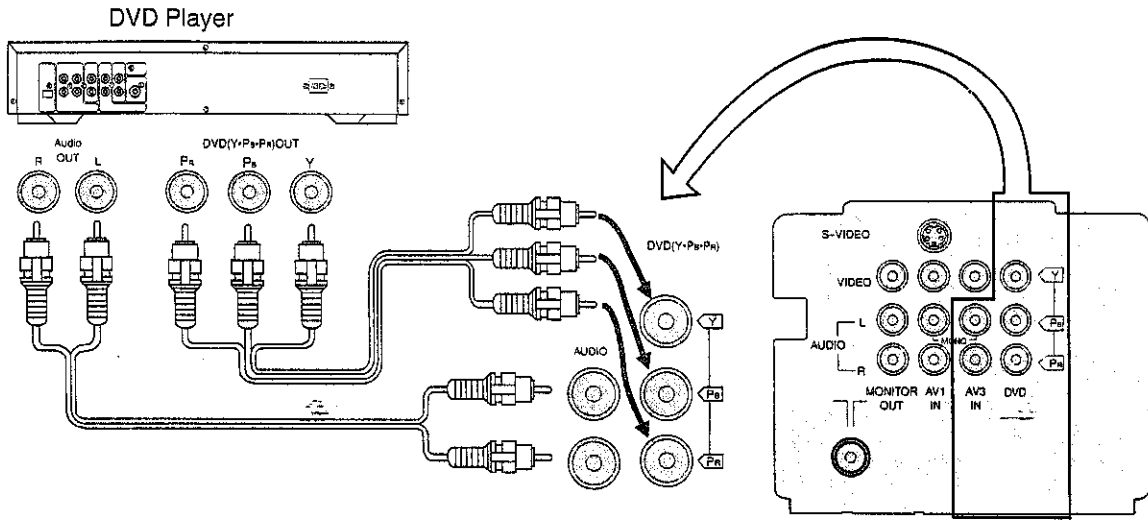
How to connect the AV Monitor Output Terminals to other Equipment
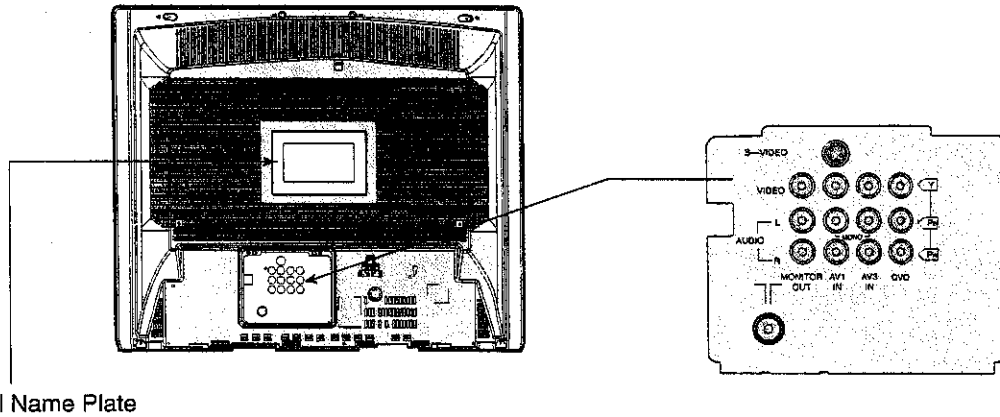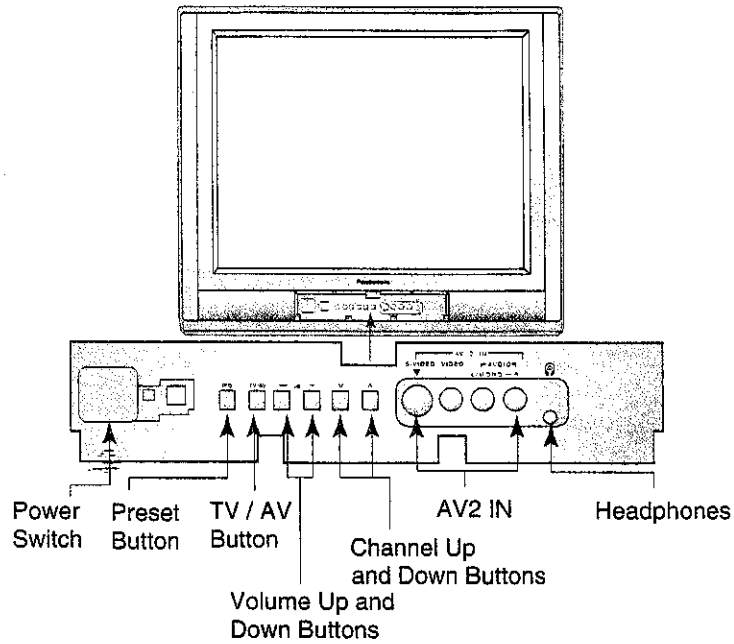
The "Monitor Out" terminal output the same signals as main picture on the TV screen and sound from the speaker at that time. e.g. TV programmes or signals from AV1, AV2 or AV3 input.

Recording Equipment
(VHS VCR)
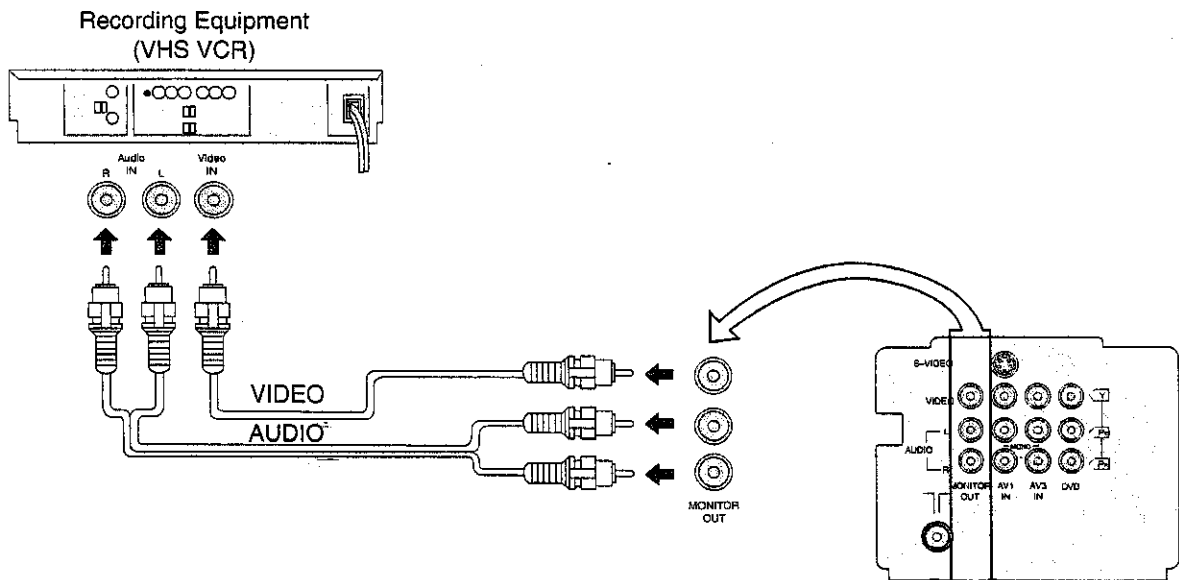
Note:

(1) Never connect the same video recorder with both the VIDEO IN and MONITOR OUT terminals on this TV set, as this could cause incorrect operation.

(2) The monitor output emits the main picture normal video and audio signals.

(3) Teletext display on screen will not be output at the MONITOR OUT terminals.

(4) The DVD signal (Y•P$_B$•P$_R$) is not output at the MONITOR OUT terminals.

(5) The DVD signal input terminal takes priority over the AV3 video input terminal.

Location of Control (TV)

Power Switch   Preset Button   TV / AV Button   Channel Up and Down Buttons   Volume Up and Down Buttons   AV2 IN   Headphones

Model Name Plate

Connecting Headphones

When a headphones plug is inserted into the Headphones socket all speakers will be automatically disconnected; only the Headphones will function.

(Optional)
(not supplied)

7
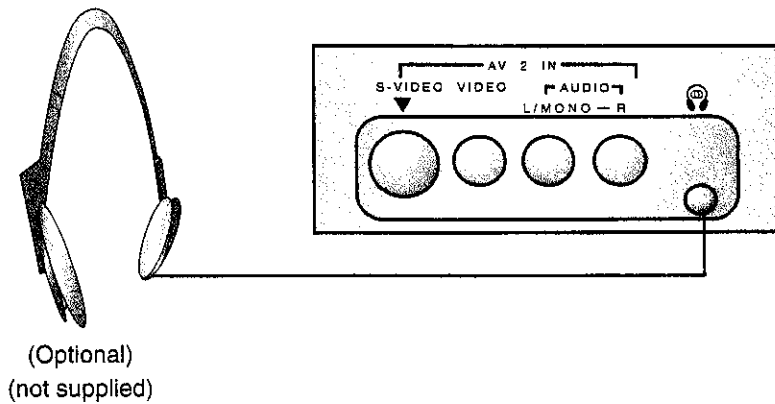
Flow Chart of Main Menu

When the "MAIN MENU" button is pressed at the main menu screen, the screen display will return to the normal viewing condition. When the "MAIN MENU" button is pressed at each MENU screen (Picture, Sound, Features, Language, Preset), the screen display will return to the Main Menu screen.

| Press	MAIN MENU ▭				
Select	◁▯▷				
Symbol Mark	🖵	🔊	☞	🌐	📶
On-Screen Indication	PICTURE	SOUND	FEATURES	LANGUAGE ENGLISH 中文 РУССКИЙ العربية	PRESET
Press	▽	▽	▽	▽	▽
On-Screen Indication (example)	DYNAMIC ■32 COLOUR 32 NTSC-TINT 32 BRIGHTNESS 63 CONTRAST 32 SHARPNESS STD COLOUR TEMP.	SPEECH 32 BASS 35 TREBLE 32 BALANCE OFF BASS BOOST OFF LOUDNESS ON AVL	BLUE BACK ON CH COLOUR SET STD CHILD LOCK OFF VCR/GAME OFF FAVORITE CH OFF	ENGLISH 中文 РУССКИЙ العربية	88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8
	DYNAMIC 32 COLOUR 32 NTSC-TINT 32 BRIGHTNESS 63 CONTRAST 32 SHARPNESS STD COLOUR TEMP.	SPEECH 32 BASS 35 TREBLE 32 BALANCE OFF BASS BOOST OFF LOUDNESS ON AVL	BLUE BACK ON CH COLOUR SET STD CHILD LOCK OFF VCR/GAME OFF FAVORITE CH OFF	ЯЗЫК ENGLISH 中文 РУССКИЙ العربية	88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8
	DYNAMIC 32 COLOUR 32 NTSC-TINT 32 BRIGHTNESS 63 CONTRAST 32 SHARPNESS STD COLOUR TEMP.	SPEECH 32 BASS 35 TREBLE 32 BALANCE OFF BASS BOOST OFF LOUDNESS ON AVL	BLUE BACK ON CH COLOUR SET STD CHILD LOCK OFF VCR/GAME OFF FAVORITE CH OFF	اللغة ENGLISH 中文 РУССКИЙ العربية	88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8
	DYNAMIC 32 COLOUR 32 NTSC-TINT 32 BRIGHTNESS 63 CONTRAST 32 SHARPNESS STD COLOUR TEMP.	SPEECH 32 BASS 35 TREBLE 32 BALANCE OFF BASS BOOST OFF LOUDNESS ON AVL	BLUE BACK ON CH COLOUR SET STD CHILD LOCK OFF VCR/GAME OFF FAVORITE CH OFF		88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8
	DYNAMIC 32 COLOUR 32 NTSC-TINT 32 BRIGHTNESS 63 CONTRAST 32 SHARPNESS STD COLOUR TEMP.	SPEECH 32 BASS 35 TREBLE 32 BALANCE OFF BASS BOOST OFF LOUDNESS ON AVL	BLUE BACK ON CH COLOUR SET STD CHILD LOCK OFF VCR/GAME OFF FAVORITE CH OFF		88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8
	DYNAMIC 32 COLOUR 32 NTSC-TINT 32 BRIGHTNESS 63 CONTRAST 32 SHARPNESS STD COLOUR TEMP.	SPEECH 32 BASS 35 TREBLE 32 BALANCE OFF BASS BOOST OFF LOUDNESS ON AVL			88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8
					88 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 88 GEOMAGNETIC 8

Note:

(i) The menu screen function of Brightness, Contrast, Bass, Treble, Balance, Bass Boost, Loudness, AVL, Blue Back, CH Colour Set, VCR/Game, Language, Fine Tune and Geomagnetic are applicable in teletext mode.

(ii) Favorite CH is applicable in Preset mode when it's set in features mode. SKIP OSD will not be displayed.
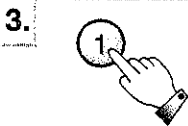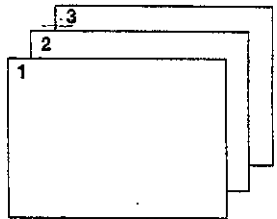
6 5 2
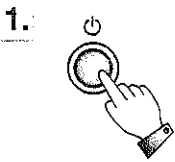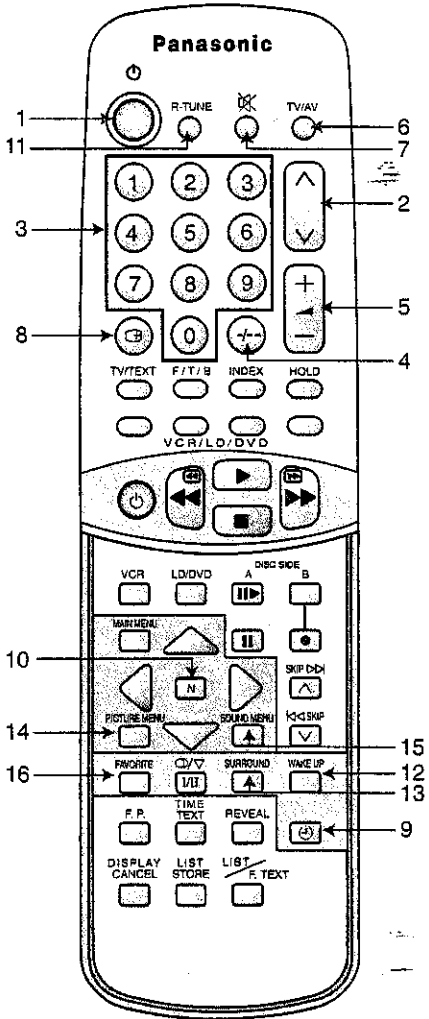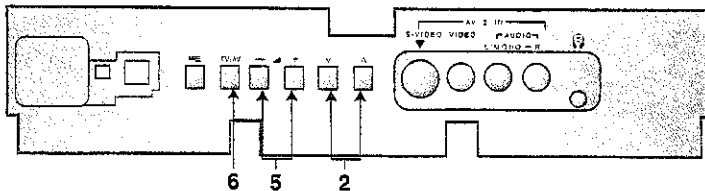
1. To Switch Power on/off

The TV set must be switched on at the wall outlet and at the Main power switch.
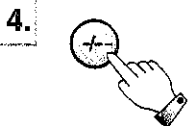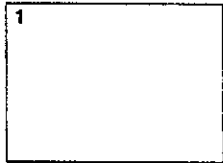Press this button to turn the TV set ON, from stand-by mode. Press it again to turn off.
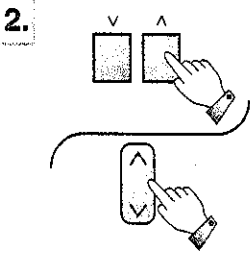
2. Programme Number Selection

Press the programme number Up "∧" or down "∨" button to select the next higher or lower programme number.

3. Direct Programme Number Selection (0 – 9)
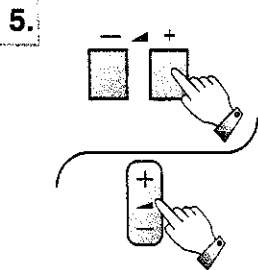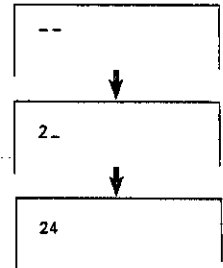
e.g. To select programme number "1", press the "1" button.

4. Two Digit Programme Number Selection

e.g. To select Programme Number "24".

Press the (+/-) button.

Press the (2) button.

Press the (4) button.

| Setting range | 0 ~ 99 |

--

2_

24

5. Volume Adjustment

Press the Volume Up or Down button to increase or decrease the sound volume level.
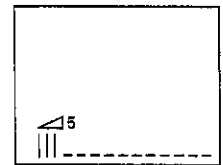
Note:
The on screen display will indicate both numerically and graphically the volume level. Numeric levels start at "0" for zero or no sound, and will increase up to 63 which is the maximum sound level.
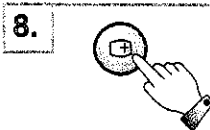
6. TV/AV
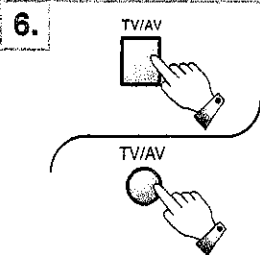
TV / AV Selection

Press the "TV/AV" button to select TV, AV1, AV2 and AV3 input signal modes sequentially.
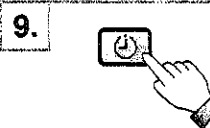
7.
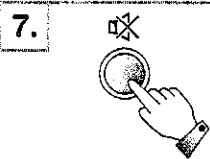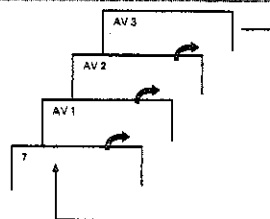
Sound Mute Button

Press this button to mute the Sound completely.
Press the button once again to restore the previous sound level, and cancel the mute.
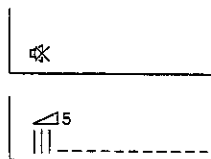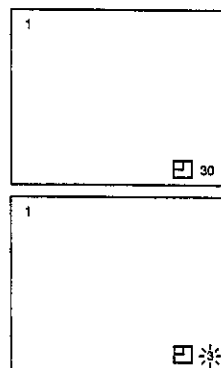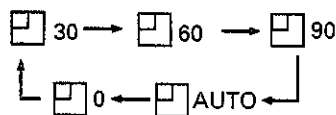
The "Mute" symbol will appear.
(Colour changes to Red)

8.

Recall Button

Press the RECALL button to display the current system status. Press this button until display is cancelled.

9.

Off-Timer Button

The TV set may be preset to switch to stand-by after a fixed period.
By pressing "Off-Timer" button, you can select the preset time either 30, 60, or 90 minutes.

30 → 60 → 90

0 ← AUTO ←

When the off-timer reaches its last 3 minutes, it starts blinking before going to stand-by condition.

Note:
Setting Off-Timer to AUTO mode. If the set is not switched off, when the TV station ends broadcasting, it will automatically go to the stand-by condition after 5 minutes. This AUTO mode will not operate when the TV receiver is in AV mode.

How to cancel the OFF-Timer setting:
1. Set the preset time condition to "0" mode by pressing the Off-Timer button.
2. Turning the TV set off.

10. N
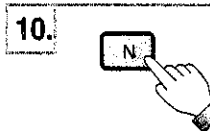
Normal (N) Button

By pressing the Normal "N" button on the Remote Control while Picture or Sound Control Function is displayed, the selected function will be changed to the Normal Mode. Normalization will not occur if the function is not displayed when the "N" button is pressed. The Normal mode is the factory preset condition. Returning to this original condition is called "Normalization".

11. R-TUNE
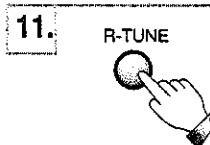
Rapid Tune Button

Press the button to access previously viewed channel.

PRESENT CHANNEL
BEING VIEWED

LAST VIEWED
CHANNEL
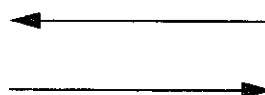
12. WAKE UP

Wake Up Timer Button

1. Press the "WAKE UP TIMER" button.

2. Press the position left or right button to select the wake up timer.
   (Wake up timer will increase or decrease by 10 minutes when left or right button is pressed.)

   **Note:**
   Wake up time can be set up to 12 hours.

3. After setting the wake up timer, switch the TV set to stand-by mode.
   (LED light will blink ON and OFF during stand-by mode)

4. When the time Wake Up timer has elapsed in the set will automatically switch on. (Press any button to cancel the Wake Up timer on screen display.)

   Note:
   i)   After the Wake Up time is set and the TV mode is still not switched off, the Wake Up timer will continue to count down until the timer is off.
   ii) When Wake Up timer switch ON the TV set, the off timer is set to 90 minutes mode automatically. Press any button to cancel the off-timer. If no button is pressed, the TV set will switch off automatically after 90 minutes.

5. To cancel the Wake Up timer. You can choose any of the following:
   i)   Switch off the main power.
   ii) Press the position left or right button, until OFF is reached.
   iii) Press the Normalize button when Wake Up timer OSD is displayed.

| 99 | WAKE UP TIMER | OFF |

| 99 | WAKE UP TIMER | 00:10 |

| WAKE UP TIMER |
| 90 |
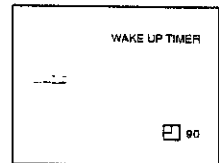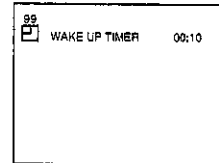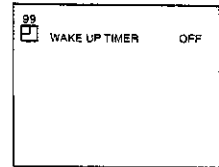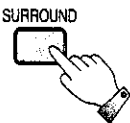
13. SURROUND

Surround Sound Operation

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

The surround effect does operate without external surround speakers, but is enhanced when they are connected. Such near surround speakers should not be sited in direct proximity to the listeners.
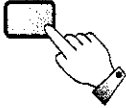
On-screen display during surround mode.

|	Type of broadcast	ON-Screen display
TV mode	MONO	MONO SURROUND ↕ SURROUND OFF
TV mode	STEREO	STEREO SURROUND ↕ SURROUND OFF
AV mode	Select AV mode	STEREO SURROUND ← ↓ MONO SURROUND ↓ SURROUND OFF →

14. PICTURE MENU

Picture Menu Operation

By pressing the PICTURE MENU button, you can sequentially select the Picture menus as shown below:

On-screen	Function
DYNAMIC	For watching in brighter environments. This menu selects a higher than normal level of contrast.
STANDARD	For watching in normal (evening) environments. This menu selects normal level of contrast.
SOFT	For watching in dark environments. This menu selects reduced level of contrast.

15. SOUND MENU
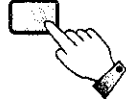
Sound Menu Operation

By pressing the SOUND MENU button, you can sequentially select the Sound menus as shown below:

On-screen	Function
MUSIC	For music programme for example.
SPEECH	For News programme for example.
MOVIE	For movie programme for example.

16. FAVORITE

Favorite Channel

Refer to page 22.

Tuning Procedure

Automatic Tune

Step	Action	Screen	Result

1.

PRE.
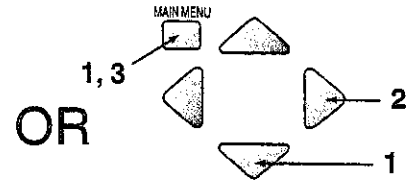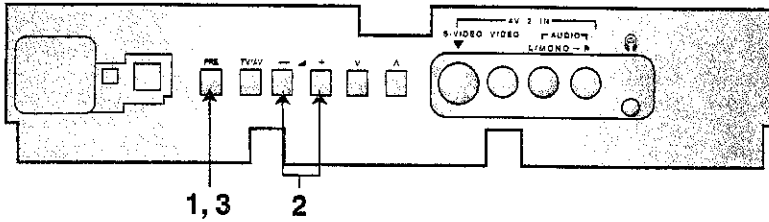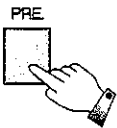
Press the "PRE." (PRESET) button, until "AUTO TUNE" function is selected.

MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until "AUTO TUNE" function is selected.

```
1        PRESET
AUTO  TUNE
MANUAL  TUNE

COLOUR  SYS   AUTO
FINE  TUNE
SKIP          OFF
POS. CHANGE    1
GEOMAGNETIC    8
```
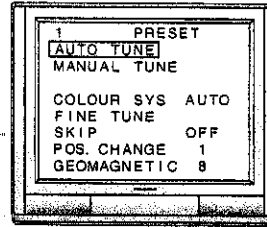
Channel Number Automatic Tune condition.

2.
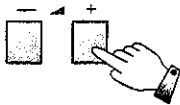
Press the Volume Up "+" button.

```
1



AUTO TUNE
─┼─ ─ ─ ─ ─ ─ ─ ─
```
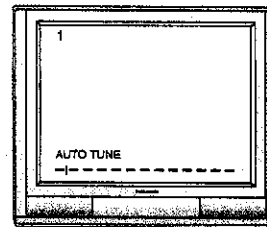
Search start.
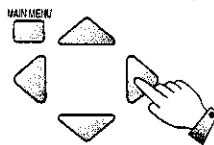
MAIN MENU

Press the Position Right button.

```
1        PRESET
AUTO  TUNE
MANUAL  TUNE

COLOUR  SYS   AUTO
FINE  TUNE
SKIP          OFF
POS. CHANGE    1
GEOMAGNETIC    8
```
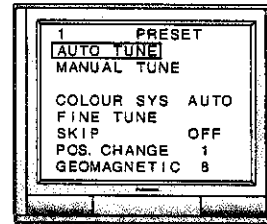
The best tuning position is automatically memorized.

3.

PRE.

Press the "PRE." (PRESET) button 7 times.
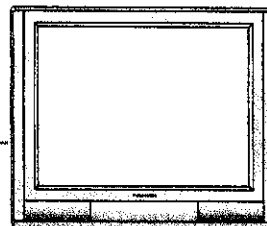
This returns the set to the normal viewing condition.

MAIN MENU

After all stations are tuned, press the "MAIN MENU" button twice.
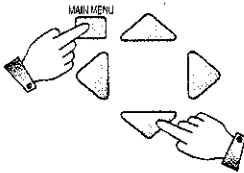
13
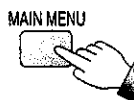
Tuning Procedure

Manual Tune
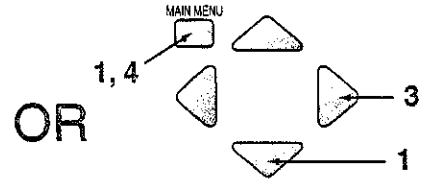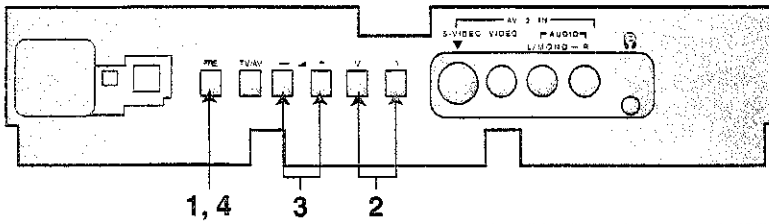
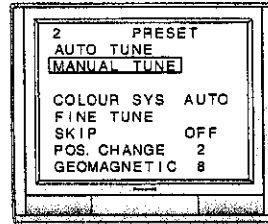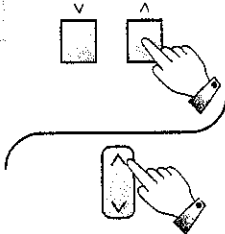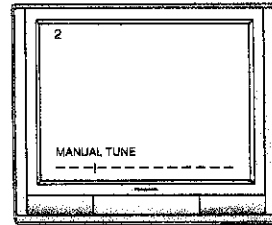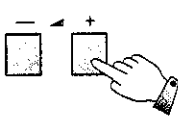|			
1. PRE.	Press the "PRE." (PRESET) button twice, setting the Manual Tune mode.	1 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 1 GEOMAGNETIC 8	Channel Number Manual Tune condition.
MAIN MENU	Press the "MAIN MENU" and "Position" buttons, until "MANUAL TUNE" function is selected.		
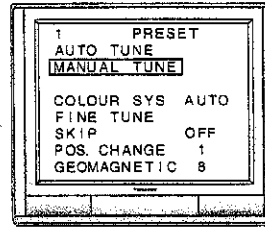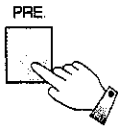
2. ∨ ∧	Press either the Channel Up or Down button.	2 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 2 GEOMAGNETIC 8	Select the desired Channel Number.

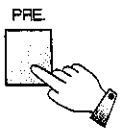|			
3. − +	Press the Volume Up "+" or Down "−" button. Volume "+" : Next higher Channel. Volume "−" : Next lower Channel.	2 MANUAL TUNE −−−−−−−−−−−−−−	Search start.
MAIN MENU	Press the Position Left or Right button. Position left : Next lower Channel. Position right : Next higher Channel.	2 PRESET AUTO TUNE MANUAL TUNE COLOUR SYS AUTO FINE TUNE SKIP OFF POS. CHANGE 2 GEOMAGNETIC 8	The best tuning position is automatically memorized.
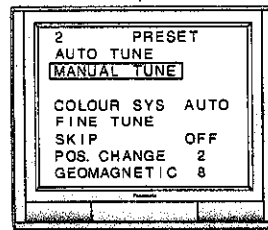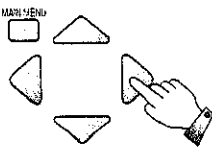
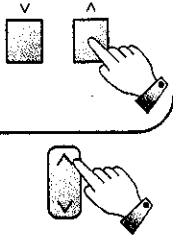|			
4. PRE.	Press the "PRE." (PRESET) button 6 times.		This returns the set to the normal viewing condition.
MAIN MENU	Press the "MAIN MENU" button twice.		

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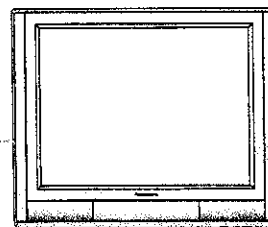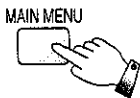
Tuning Procedure
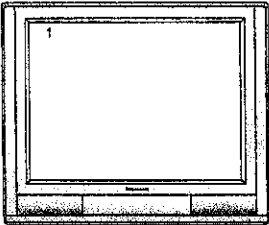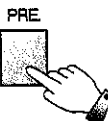
Fine Tune
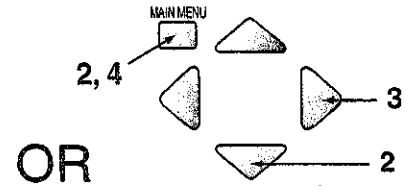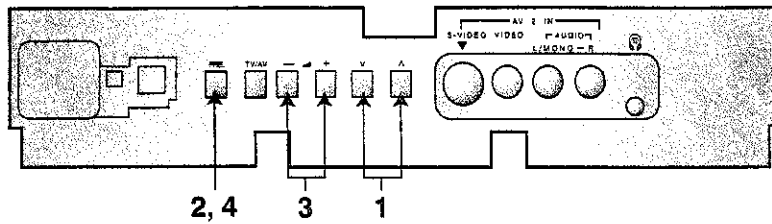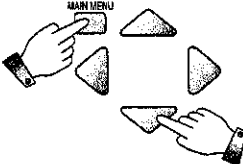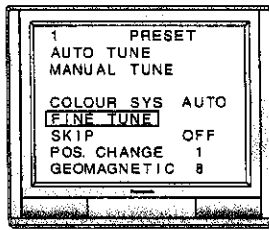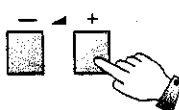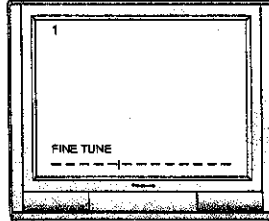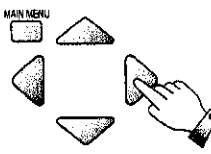

Under normal reception condition, this function is not used. However, in areas of poor reception or constant interference, a slight adjustment on the fine tuning can improve the picture and sound quality.
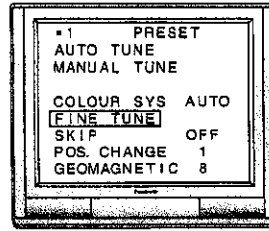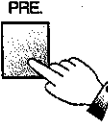
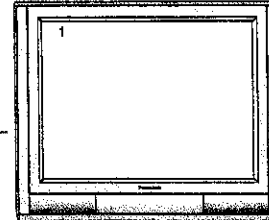|			
1.	Select the channel which you want to try to improve, using the Channel Up or Down button.		Select the desired Channel Number.
2.	Press the "PRE." (PRESET) button 4 times, setting the Preset Menu to "Fine Tune".		Fine Tune condition.
	Press the "MAIN MENU" and "Position" buttons, until "FINE TUNE" is selected.		
3.	Press the Volume Up "+" or Down "–" button until the clear picture is received.		Fine Tune Start.
	Press the Position Left or Right button until the clear picture is received.		The AFC (Automatic Frequency Control) function is deactivated. The "∎" symbol appears to the left of the Channel Number.
4.	Press the "PRE." (PRESET) button 4 times.		This returns the set to the normal viewing condition.
	After all stations are tuned, press the "MAIN MENU" button twice.		

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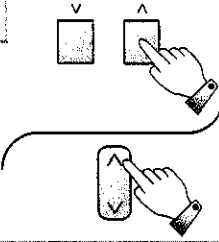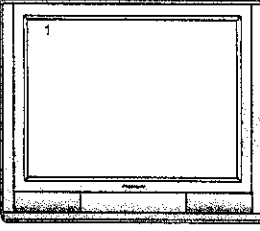
Tuning Procedure

How to cancel the Fine Tuning
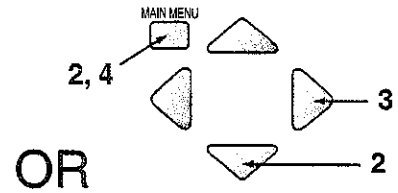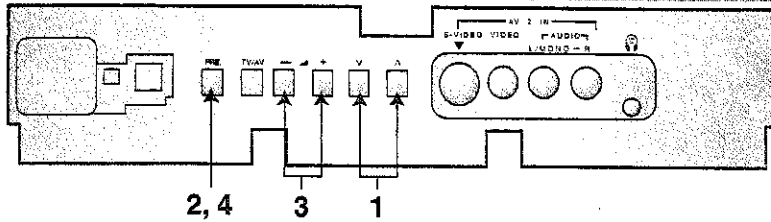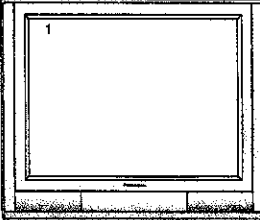
Cancelling previously adjusted (manually) fine tuning, means reactivating the AFC (Automatic Frequency Control) Function, also known as AFT (Automatic Frequency Tuning). Reactivating the Automatic Frequency Tuning means allowing the set to automatically tune optimum tuning position, for that Channel Number.

1. Select the "AFC OFF" Channel Number which you want to return to Automatic Frequency Control (Cancel the manual fine tuning).

"AFC OFF" Channel Numbers are indicated to you by the "■" symbol to the left of the Channel Number.

2. Press the "PRE." (PRESET) button twice, setting the Preset Menu to "MANUAL TUNE" mode.

Manual Tune condition.

Press the "MAIN MENU" and "Position" buttons, until "MANUAL TUNE" function is selected.

3. Press the Volume Up "+" or Down "–" button briefly.

The best tuning position is automatically memorized.

Press the Position Left or Right button briefly.

4. Press the "PRE." (PRESET) button 6 times.
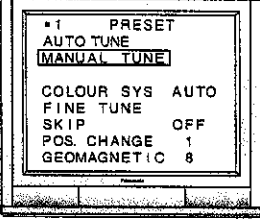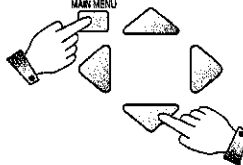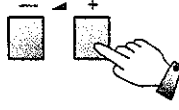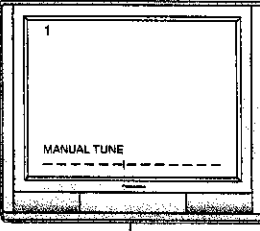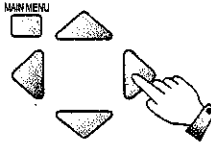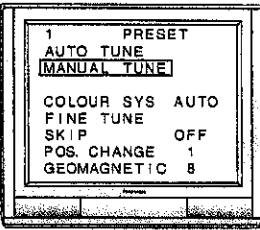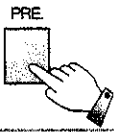
This returns the set to the normal viewing condition.

Press the "MAIN MENU" button twice.

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Tuning Procedure

How to Skip Programme Number

1,4 **3** **2**

OR

1,4 **3** **1**

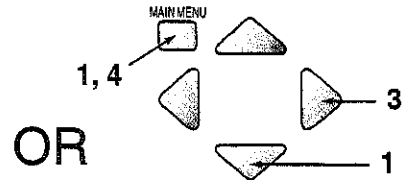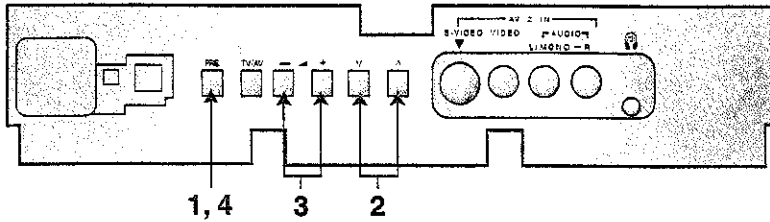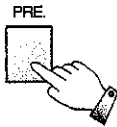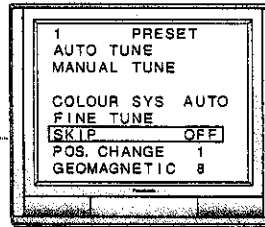
1.

PRE.

Press the "PRE." (PRESET) button 5 times, setting the Preset Menu to "SKIP".

```
1        PRESET
AUTO TUNE
MANUAL TUNE

COLOUR SYS   AUTO
FINE TUNE
SKIP              OFF
POS. CHANGE       1
GEOMAGNETIC       8
```

Channel Skip condition.
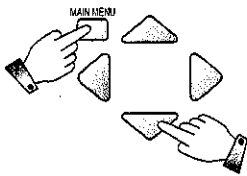
MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until the Preset Menu to "SKIP".

2.

v ∧
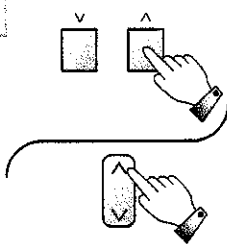
Select a Programme Number you want to skip, by pressing the Channel number Up or Down buttons.

```
2        PRESET
AUTO TUNE
MANUAL TUNE

COLOUR SYS   AUTO
FINE TUNE
SKIP              OFF
POS. CHANGE       2
GEOMAGNETIC       8
```

3.

− ◄ +

Press the Volume Up "+" or Down "−" button.

```
2        PRESET
AUTO TUNE
MANUAL TUNE

COLOUR SYS   AUTO
FINE TUNE
SKIP              ON
POS. CHANGE       2
GEOMAGNETIC       8
```
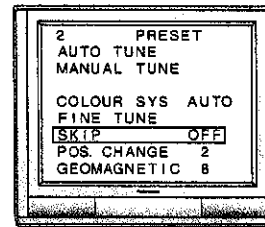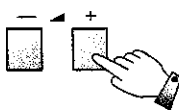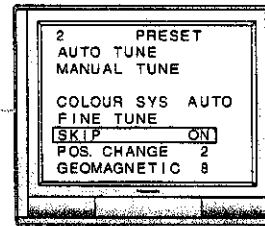
The displayed "OFF" condition changes to "ON".
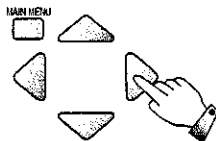
MAIN MENU

Press the Position Left or Right button.

4.

PRE.
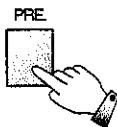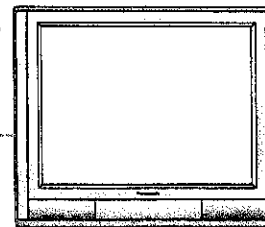
Press the "PRE." (PRESET) button 3 times.

This returns the set to the normal viewing condition.

MAIN MENU

Press the "MAIN MENU" button twice.

17
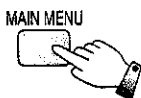
How to Cancel the Skip Function
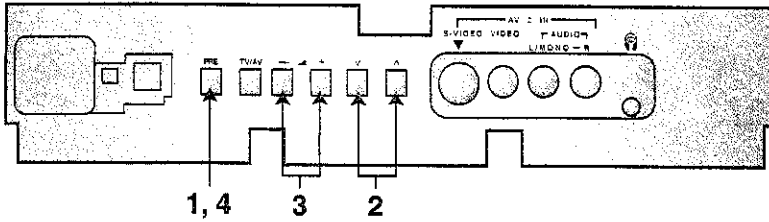
1.   PRE.

Press the "PRE." (PRESET) button 5 times, setting the Preset Menu to "SKIP".

```
1        PRESET
AUTO TUNE
MANUAL TUNE

COLOUR SYS   AUTO
FINE TUNE
SKIP              OFF
POS. CHANGE    1
GEOMAGNETIC    8
```
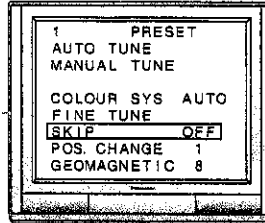
Channel Skip condition.
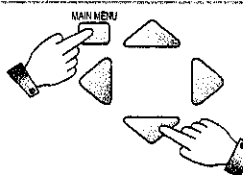
MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until "SKIP" is selected.

2.   v   ^
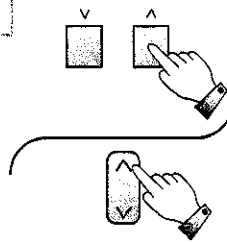
Select the skipped Programme Number, by pressing the Channel Number Up or Down buttons.

```
2        PRESET
AUTO TUNE
MANUAL TUNE

COLOUR SYS   AUTO
FINE TUNE
SKIP              ON
POS. CHANGE    2
GEOMAGNETIC    8
```
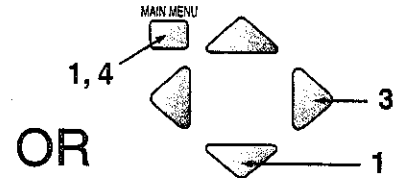
3.   − +

Press the Volume Up "+" or Down "−" button.

```
2        PRESET
AUTO TUNE
MANUAL TUNE

COLOUR SYS   AUTO
FINE TUNE
SKIP              OFF
POS. CHANGE    2
GEOMAGNETIC    8
```
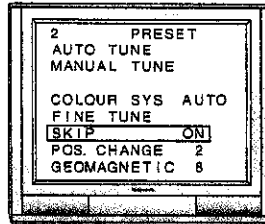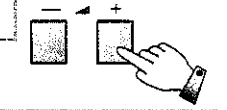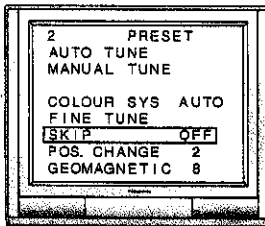
The displayed "ON" condition changes to "OFF".

MAIN MENU
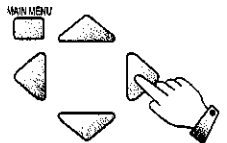
Press the Position Left or Right button.

Repeat step 2 and 3, if you wish to cancel the Skip function on any other programme number.

4.   PRE.
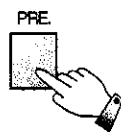
After the Skip Cancel operation is completed, press the "PRE." (PRESET) button 3 times.
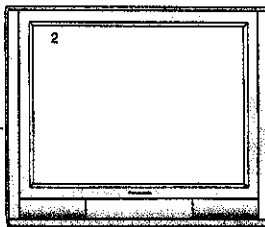
```
2
```

This returns the set to the normal viewing condition.

MAIN MENU

After the Skip Cancel Operation is completed, press the "MAIN MENU" button twice.

18
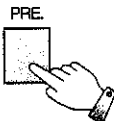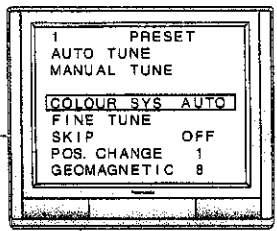
Tuning Procedure

Colour System Selection
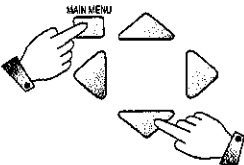
Use this function if a clear picture with weak colour is obtained when a Broadcast or AV signal is received.

1. Press the "PRE." (PRESET) button 3 times.

Press the "MAIN MENU" and "Position" buttons, until "COLOUR SYS" is selected.

```
1        PRESET
AUTO TUNE
MANUAL  TUNE

COLOUR  SYS    AUTO
FINE  TUNE
SKIP           OFF
POS. CHANGE    1
GEOMAGNETIC    8
```
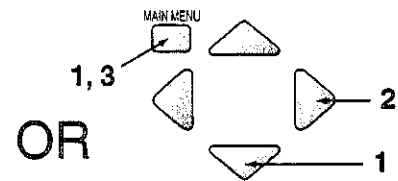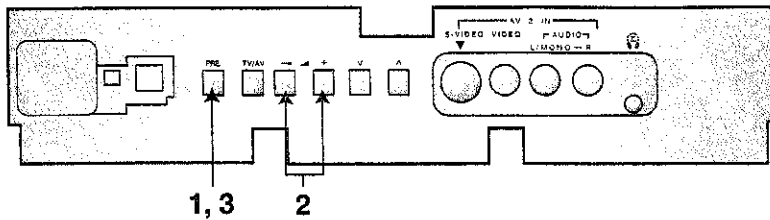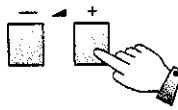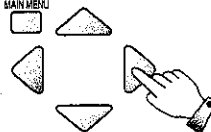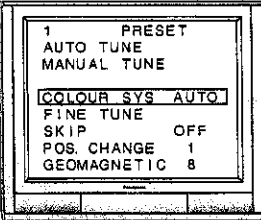
Colour System condition.
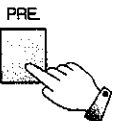
2. Press the Volume Up "+" or Down "–" button repeatedly until the optimum image is produced.

Press the Position Left or Right button repeatedly until the optimum image is obtained.

```
1        PRESET
AUTO TUNE
MANUAL  TUNE

COLOUR  SYS    AUTO
FINE  TUNE
SKIP           OFF
POS. CHANGE    1
GEOMAGNETIC    8
```

The Colour system will change as shown:
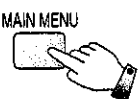
AUTO ⟷ PAL

NTSC 3.58 ⟷ NTSC 4.43

3. Press the "PRE." (PRESET) button 5 times.
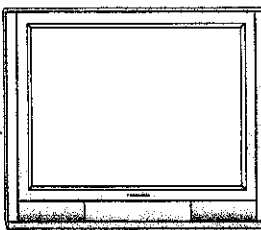
Press the "MAIN MENU" button twice.

This returns the set to the normal viewing condition.

This selected Colour System is automatically memorized.

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Pos. Change

This feature will enable the user to swap (Exchange) channel memory of 2 selected channels. The position change function allows one to shift from the present channel to any programme number without any tuning process.

1.   PRE.

Press the "PRE." (PRESET) button 6 times.
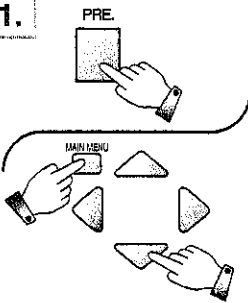
Press the "MAIN MENU" and "Position" buttons, until "POS. CHANGE" is selected.

MAIN MENU

```
1        PRESET
AUTO  TUNE
MANUAL  TUNE

COLOUR  SYS    AUTO
FINE  TUNE
SKIP              OFF
POS. CHANGE       1
GEOMAGNETIC    6
```
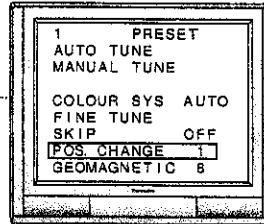
2.

Select a Programme number you want to change by pressing either Channel Up or Down button, two digit programme selection or Direct Programme number selection on the remote control.
(Position change will only exist in preset mode).

```
1        PRESET
AUTO  TUNE
MANUAL  TUNE

COLOUR  SYS    AUTO
FINE  TUNE
SKIP              OFF
POS. CHANGE    1 2
GEOMAGNETIC    6
```
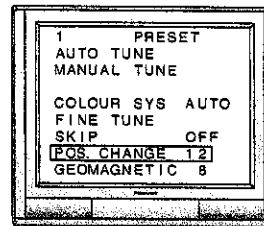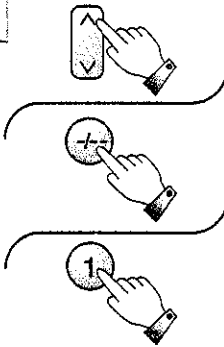
Note:
Position change also can operated using panel key. Use PRESET key to enter POSITION CHANGE, then, use volume up/down to change the channel to be swapped to. Use TV/ AV to confirm.

3.   TV/AV

Press the "TV/AV" button to confirm.
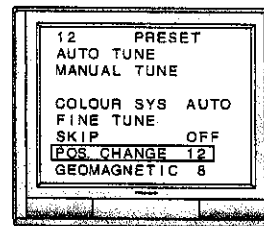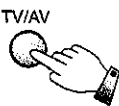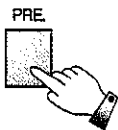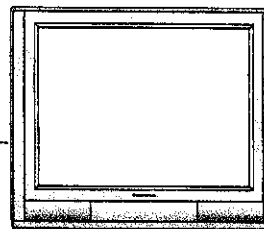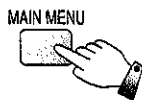
```
12        PRESET
AUTO  TUNE
MANUAL  TUNE

COLOUR  SYS    AUTO
FINE  TUNE
SKIP              OFF
POS. CHANGE    12
GEOMAGNETIC    6
```

4.   PRE.

Press the "PRE." (PRESET) button twice.

MAIN MENU

Press the "MAIN MENU" button twice.

This returns the set to the normal viewing condition.

Picture Menu Operation

Picture Menu

Press	Item	Effect	Indicator
⬦ Select	COLOUR	◁ ▷ Less More	▣ 32 ----┼------ COLOUR
⬦ Select	NTSC-TINT	◁ ▷ Reddish Greenish	▨ 32 ------┼---- N T S C - T I N T
⬦ Select	BRIGHTNESS	◁ ▷ Darker Brighter	☼ 32 --------┤------ B R I G H T N E S S
⬦ Select	CONTRAST	◁ ▷ Less More	◑ 63 ----------------┤ CONTRAST
⬦ Select	SHARPNESS	◁ ▷ Less More	▥ 32 --------┼------ S H A R P N E S S
⬦ Select	COLOUR TEMP.	┌→ STD ◄──── COOL ◄┐ └──→ WARM ◄──┘	COLOUR TEMP.

Sound Menu Operation

Sound Menu

Press	Item	Effect	Indicator
⬦ Select	BASS	◁ ▷ Less More	♪ 32 -------┼------ BASS
⬦ Select	TREBLE	◁ ▷ Less More	♪ 35 --------┼------ TREBLE
⬦ Select	BALANCE	◁ ▷ Left SP. Right SP.	▨ 32 --------┼---- B A L A N C E
⬦ Select	BASS BOOST	◁ ▷ ON ◄─► OFF	BASS BOOST
⬦ Select	LOUDNESS	◁ ▷ ON ◄─► OFF	LOUDNESS
⬦ Select	AVL	◁ ▷ ON ◄─► OFF	AVL

AVL (Auto Volume Limiter)

The AVL function will limit the volume output for music, speech and movie at preset level when it is on.

Features Menu Operation
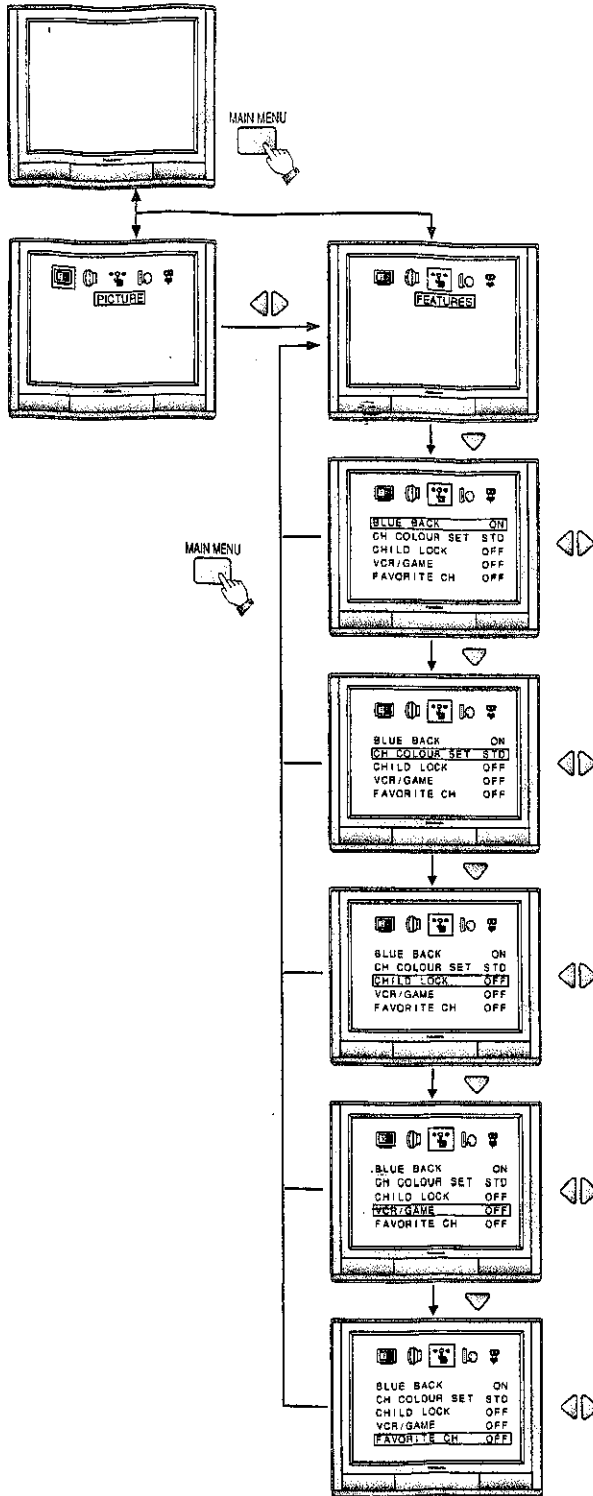
BLUE BACK Mode

When no picture signal is received, or the signal is weak, the screen reverts to a blue background colour and the sound is muted.

Disable this features to continue watching very weak signals.
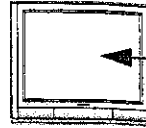
Blue background colour if no input picture signal or input signal is weak.

Note:

If BLUE BACK Mode is set on while a VCR signal is being viewed, selecting CUE or REVIEW may cause the screen to revert to the blue background colour. Disable this feature to view correctly.

CH (Channel) COLOUR SET mode

Colour density varying between broadcast channels can be adjusted to three levels for each reception channel as follows :

STD ←→ HIGH ←→ LOW

CHILD LOCK mode

To child lock any channel, press the position left or right button.
1) When channel is "LOCK", sound is muted and screen becomes blue colour.
2) If any of the channels is CHILD LOCK, then preset key at any panel will not work. If preset key (Panel) is pressed, message "CHILD LOCK ON" will appear.
3) Main power ON in child locked channel will display "CHILD LOCK ON" on screen to remind user that the Child lock is On and is in Child locked channel.
4) Each channel has its own memory for channels to be child locked.
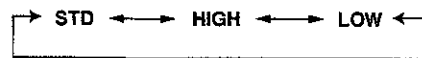
VCR/Game mode

Reproduction of irregular signals, such as TV games and rental video tapes, may be improved.
The VCR/GAME mode will change as shown.

ON ←→ OFF

FAVORITE CH mode

After auto search, this feature allows to store programme in preferred channel position without re-searching again.
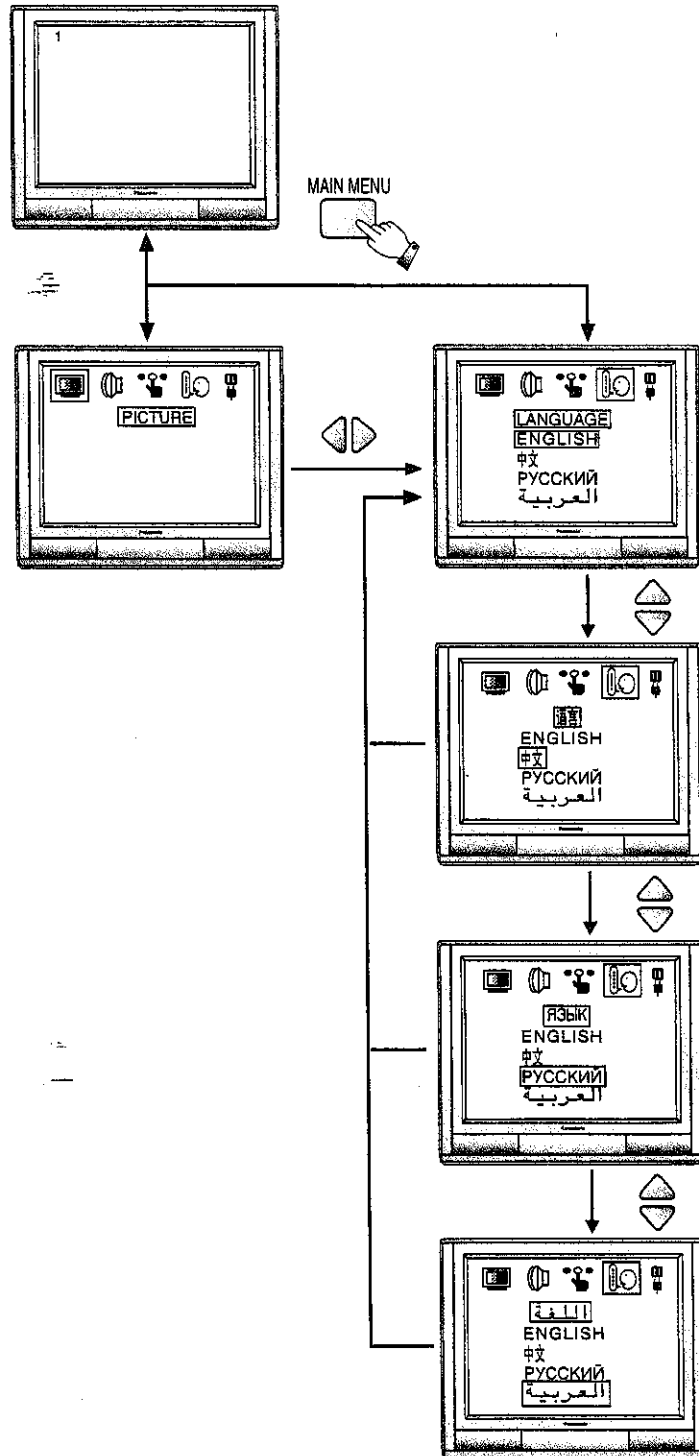1. In feature mode, option off, option 1 or 2 can be selected.
2. If option 1 or 2 is selected, go to preset mode.
3. In preset mode, you can set favorite channel on/off. Then set the position you want in position change function mode.

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Language Menu Operation

Language Menu

Press the "Position Up or Down" button. The on-screen language display will change as follows :

Preset Menu Operation

Geomagnetism Correction

Since a large picture tube has been used, blurring of colours and strange discolouration patches may occur depending on the direction the television faces. This is caused by a geomagnetic effect. For optimum viewing, it is necessary to adjust the TV placement.

1. The Power should be off when determining the installation location and direction.
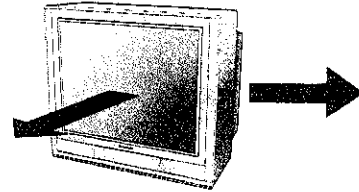
2. Press the "Main Power Switch".
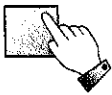
3. Press the "MAIN MENU" button.
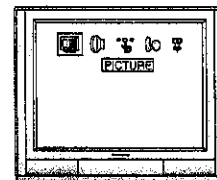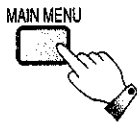
MAIN MENU

"Main Menu" condition.

4. Select the Preset Menu by using the Position Left or Right button.

MAIN MENU
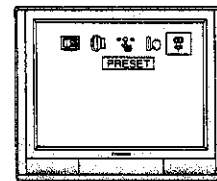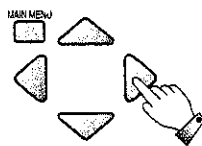
5. Select the Geomagnetic Mode by using the "Position" button.

MAIN MENU
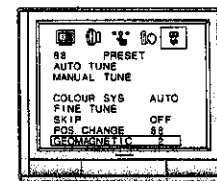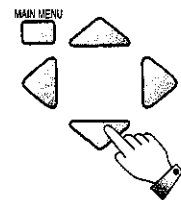
6. Press the Position Left or Right button to adjust the Geomagnetic level so that the colour patches in the four corners of the screen do not appear. —

MAIN MENU
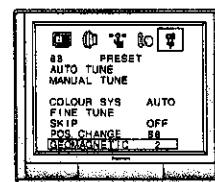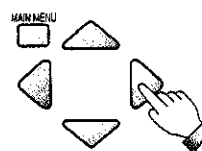
Helpful Hint

(1) If Geomagnetic changes still cause colour patches on the screen even after the TV is installed, turn the power off and turn back on again after about 30 minutes.

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

(3) In some cases colour patches will not be completely eliminated even after adjustment, particularly in ferro-concrete building and other structures susceptible to geomagnetic. In these cases adjust by changing the installation location.

Stereo Reception

Stereo/Bilingual Sound Selection Button

Sound output modes can be selected by pressing the "Sound Selection" Button.

STEREO, BILINGUAL (if transmitted) and MONO modes can be selected using this button.

	Types of Broadcast	On-screen Indication	Remarks
NICAM Digital Stereo	Regular Broadcast (Standard Audio)		Normal use
	Regular + NICAM MONO I [MAIN <I>]	MAIN <I> ←→ MONO	You can select either the "MAIN <I>" or "MONO" audio signal
	NICAM STEREO	STEREO ←→ MONO	You select either the "STEREO" or "MONO" mode.
	NICAM DUAL MONO MAIN <I> / SUB <II>	MONO / SUB <II> / MAIN <I>	You can select either the "MAIN <I>", "SUB <II>" or "MONO".
A2 (German) Stereo	Regular Broadcast (Standard Audio)		Normal use
	BILINGUAL or DUAL MONO MAIN <I> / SUB <II>	MAIN <I> ←→ SUB <II>	You can select either the "MAIN <I>" or "SUB <II>" audio signal.
	STEREO	STEREO ←→ MONO	You can select either the "STEREO" or "MONO" mode.

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Teletext Operation

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- When in teletext mode, the volume may still be altered to the desired listening level.

What is LIST mode?

In LIST mode, four different coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information of the subjects shown.

What is the advantages?

- Page selection at the touch of a Colour-coded Button.
- Easy to use step-by-step selection of the topics subject.
- Reduction of waiting time.
- Page status line at bottom of screen so you always know which button will take you to the desired information.
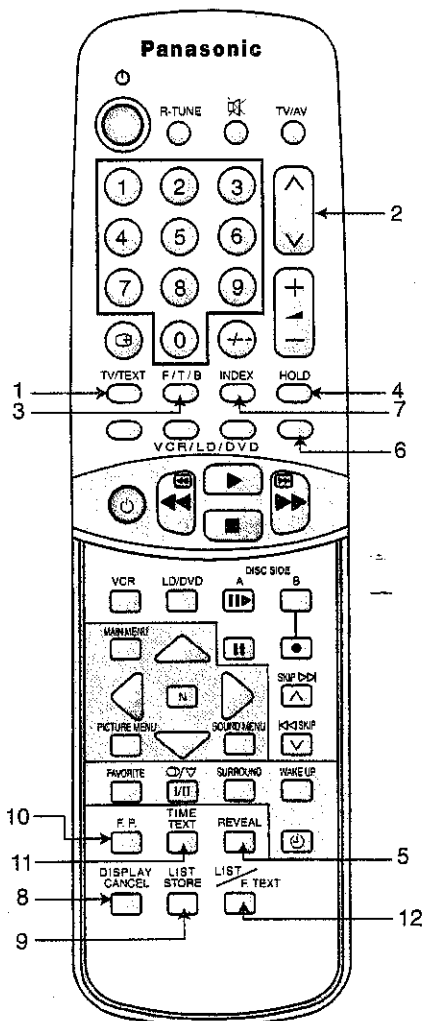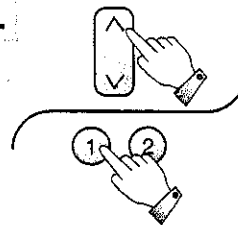

1. TV/TEXT
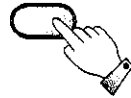
TV/Teletext mode

By pressing the TV/TEXT button, to change the TV/Teletext mode as follows:
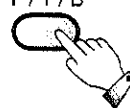
TV ———— TEXT

2.

Page Selection

Page can be selected in two ways:
a) Press the Up/Down Buttons to increase or decrease the page number by one.
b) By entering the page number, using 0 ~ 9 on the remote control.

3. F / T / B

Full/Top/Bottom

Press to expand the Top of the page.
Press again to expand the Bottom half.
Press again to return to normal (Full) size.

4. HOLD
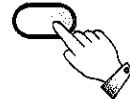
Hold

Press to hold the current page.
Press again to cancel the hold.

5. REVEAL

Reveal

Press to reveal hidden words.
e.g. quiz page answer.
Press again to hide.

6. Red Green Yellow Blue Light
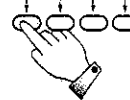
Colour-coded buttons

In Fastext mode these correspond to the differently coloured subjects.
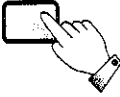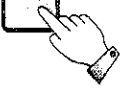
7. INDEX

Index

Press INDEX to return to the main index page.

Teletext Operation

8. DISPLAY CANCEL

Display Cancel
Press the "DISPLAY CANCEL" button to view the normal TV programme. When the desired sub-page is received, the "TEXT" message appears at the top left of the screen.
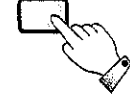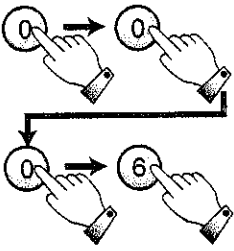
9. LIST STORE

List Store
In LIST mode, the four page numbers can be altered for channel position. To do this, press one of the colour-coded buttons and enter the new page number. Press and hold list store, the page number will change colour.

10. F. P.

Favourite Page (F.P.)
Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, press the Light Blue button, select the page number, then press List Store. The page number is now stored. Press F.P. button to recall this page.

Sub Coded Page Access

The TEXT Menu will be displayed in TEXT mode. When teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found. Select the required page number using buttons 0–9.

11. TIME TEXT

Press the TIME TEXT button.

Enter desired sub page number.
To select page 6 enter 0, 0, 0 and 6.

DISPLAY CANCEL

Press the DISPLAY CANCEL button to view a normal TV programme.

TV/TEXT

When the page is available, press the TV/TEXT button twice to view the sub page.

12. LIST / F. TEXT

List/F.Text
Press to change from FASTEXT mode to LIST mode and vice versa. In FASTEXT mode four differently coloured subjects are displayed at the bottom of the page.
Press the appropriate coloured button to access more information about one of these subjects.

Manufacturer setting

Remote Control Operation is possible for the VCR's, LD's and DVD's of the various manufacturers.

After completion of setting, execute the various operations after pressing the VCR or the LD/DVD button.
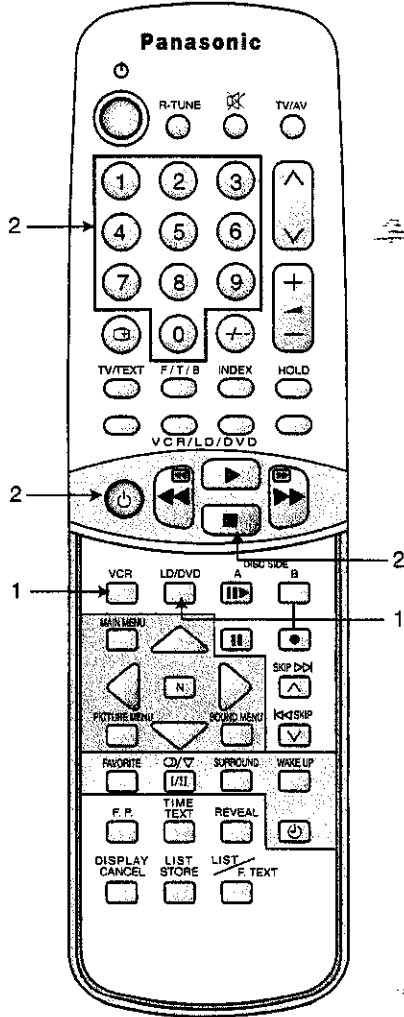
1. VCR / LD/DVD — Press the button of the unit to be set (VCR or LD/DVD).

2. While pressing the VCR/LD/DVD Power button, press the manufacturer code setting (enter the two digit code), and press the VCR/LD/DVD Stop button.

VCR

Manufacturer	Code	Manufacturer	Code
Panasonic/ National	10,11,12,13	NEC ORION	40, 41, 42, 43 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

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

Manufacturer	Code
Panasonic	70

Note:

After setting, execute operation confirmation.

If there is no operation, set a different code.

Helpful Hint

(1) The respective VCR/LD/DVD manufacturer code is cancelled when battery has been exchanged. Please set it again.

(2) Depending on the model, operation of VCR's, LD's or DVD's of the manufacturers listed above may not be possible.

(3) In some cases, new products may not be operative.

(4) It will not operate with other than the above manufactures.

Execute the various operations after pressing the VCR or LD/DVD button.

Button		Function	
		VCR	LD/DVD
1	◀◀	Rew (Rewind)/ Review Button	Rew (Rewind)/ Review Button
2	⏻	VCR Power	LD/DVD Power Button
3	■	Stop Button	Stop Button
4	‖▶	Still Advance Button	DISC SIDE A Selection Button
5	▶	Play Button	Play Button
6	▶▶	FF (Fast Forward)/ Cue Button	FF (Fast Forward)/ Cue Button
7	B ●	Rec (Record) Button	DISC SIDE B Selection Button
8	‖	Pause/Still Button	Pause/Still Button
9	SKIP ▷▷‖ / ‖◁◁ SKIP	Programme Number Up and Down Buttons for VCR	Programme Skip Button

Troubleshooting

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

Symptoms		Checks
Picture	**Sound**	
Snowy Picture	Noisy Sound	Aerial location, direction connection
Multiple Image	Normal Sound	Aerial location, direction connection
Interference	Noisy Sound	Electrical appliances Cars / Motorcycles Fluorescent lamps
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)
No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness / Volume Setting (Check by pressing the Power Switch or Stand-by Button on the Remote Control.)
No Colour	Normal Sound	Colour control
Scrambled	Weak Sound	Re-tune channels
Colour Patches	Normal Sound	Magnetic interference from unshielded equipment. Receiver moved while "ON"
No Colour	Noisy Sound	System Button

Specifications

Power Source : AC SINGLE 230V, 50Hz
Power Consumption : 158 W
Receiving System : 4 SYSTEMS

	SYSTEMS	FUNCTION
1.	PAL B,G	Reception of broadcast transmissions and playback from video cassette tape recorders.
2. 3.	NTSC 4.43 NTSC 3.58	Playback from special VCR only.
4.	PAL 60Hz	Playback from special Disc player and VCR only.

Receiving Channels :

VHF BAND	UHF BAND	CATV
0 – 12 PAL B (AUST.)	21 – 69 PAL G 28 – 69 PAL B (AUST.)	S21 – S41 (HYPER)

Tuning System : Frequency synthesizer Auto search tuning: 100 position.
Picture Tube : 68 cm, measured diagonally, 104° deflection.
Audio Output : 8 W × 2 (Speaker)
Aerial Impedance : 75 Ω Unbalanced coaxial.

Video/audio terminal :	AV 1,2	S-Video In	Y: 1 Vp-p, 75 Ω C: 0.3 Vp-p, 75 Ω
	DVD	Y P_B P_R	1.0 Vp-p, 75 Ω 0.7 Vp-p, 75 Ω 0.7 Vp-p, 75 Ω
	AV 1,2,3	Video In Audio In	1 Vp-p, 75 Ω Approx. 0.5V, 47 kΩ
	Monitor Out	Video Out Audio Out	1 Vp-p, 75 Ω Approx. 0.5V, 1 kΩ

Remote Control Transmitter : EUR511044
Battery : R6 (AA) × 2
Dimension (W × D × H) : 699 × 509 × 584 mm
Weight (Net) : 45.6 kg

Note :
Design and Specifications are subject to change without notice.

Customer's Record

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

Model Number

Serial Number