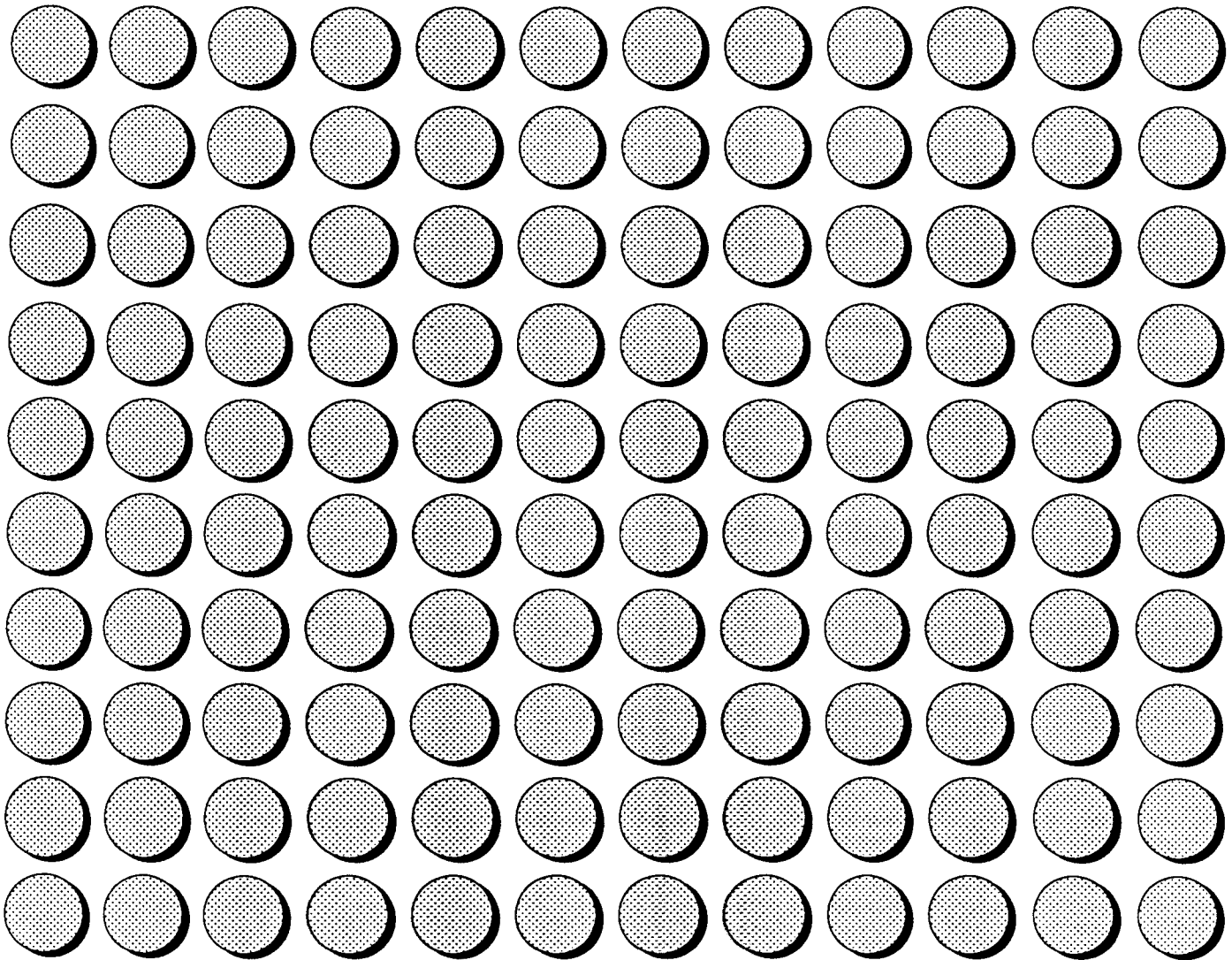




**INSTRUCTION MANUAL**

**Colour Television**

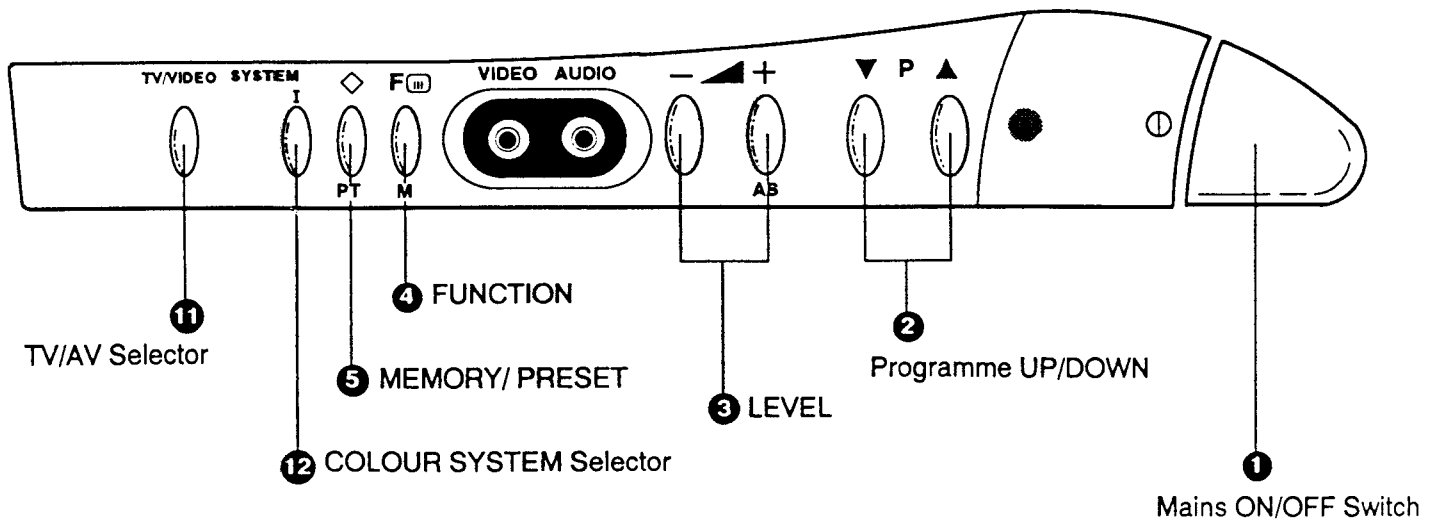
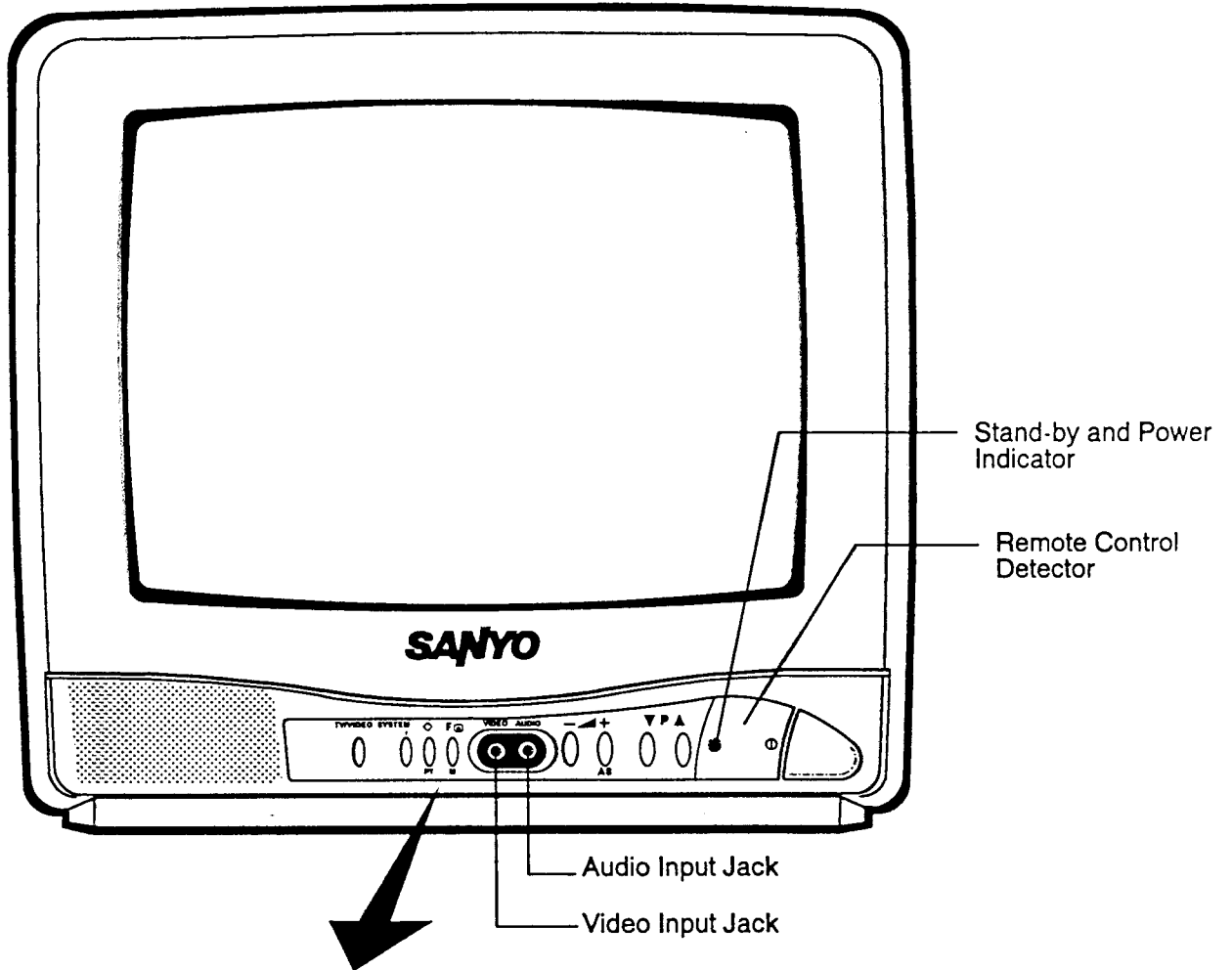
**C14PL81  
C20PV81  
C14PL81Z  
C20PV81Z**



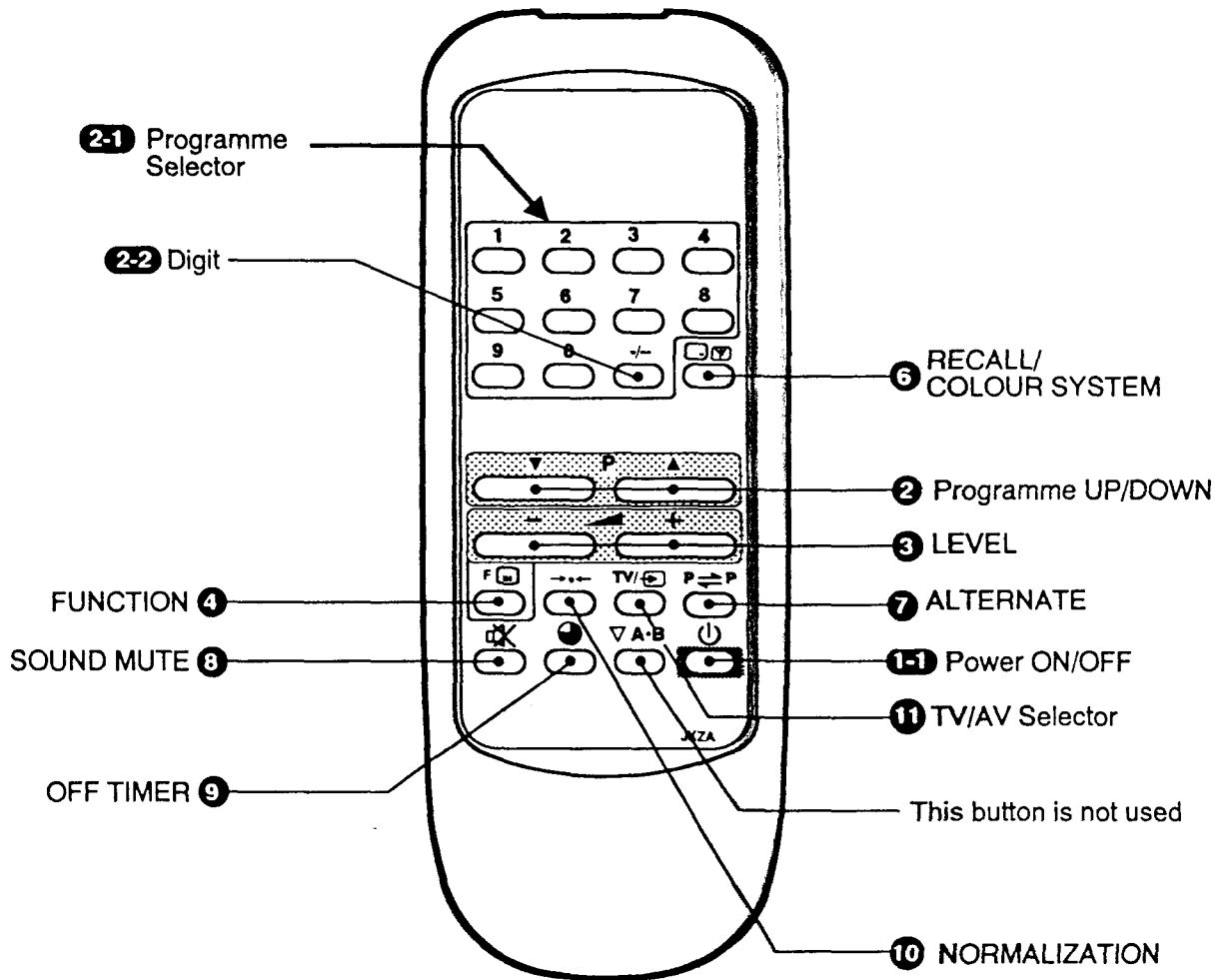
***PAL System  
Special Function  
AV Input & Output Terminal  
Video Multi Terminal (PAL/NTSC/NTSC4.43)***

# Controls

Each button listed in this section has the same function as it's corresponding button on the remote control transmitter.



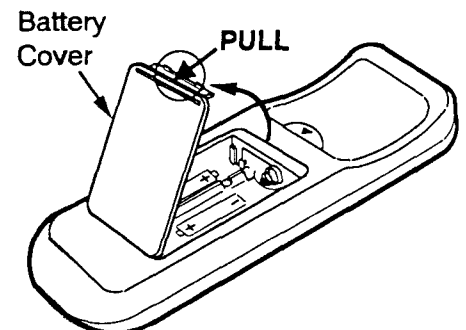
# Remote Control Transmitter



## Battery Installation of the Remote Control Transmitter

- 1 Remove the battery cover.
- 2 Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit.
- 3 Close the battery cover.

Note: Replace the batteries when the TV set is showing the following symptoms:  
 Operation is unsteady or erratic, sometimes the TV set does not work with transmitter.  
 Discharged batteries may leak and damage the unit.  
 The normal life of batteries should be from nine to ten months.



[ Battery cover removal ]

# General Operation

## Power ON/OFF

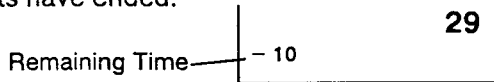
To switch the TV on, press the Mains ON/OFF button **1** on the front of the TV set.  
If no picture appears, press the Power ON/OFF button **15** on the remote control transmitter.

To turn the TV on from the standby condition, press any of the following buttons:

Power ON/OFF **15**, Programme UP/DOWN **2** or 1 to 9 and 0 button **25**.

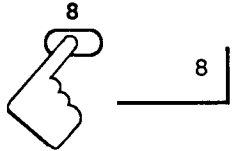
## AUTO SHUT OFF

This TV set incorporates the AUTO SHUT OFF function. Even if the TV is left on after you have gone to sleep, the TV set changes to the standby mode within 10 minutes after all broadcasts have ended.

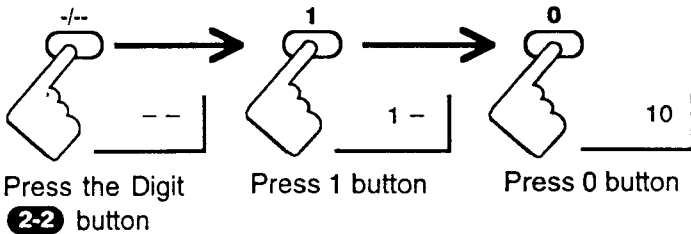


## Programme Selection (Direct Selection)

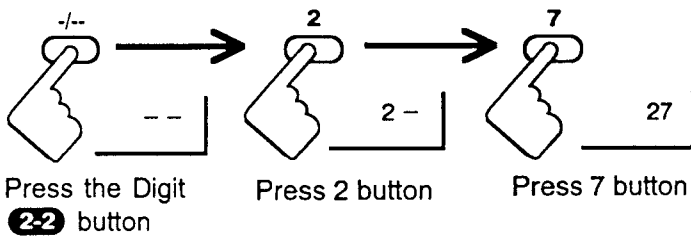
To select programme 8 directly, press 8 button of the Programme Selector **25** on the remote control.



To select programme 10



To select programme 27



## Programme Selection (Programme UP and DOWN)

You can step upwards to the next programme position by pressing the P ▲ button **2** on the remote control transmitter or the TV set. Or step downwards using the P ▼ button.

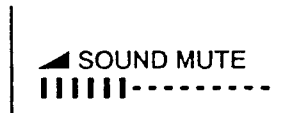
## Volume Control

Increase or decrease the Sound volume level by pressing the LEVEL (+ or -) buttons **3**.



## Sound Mute

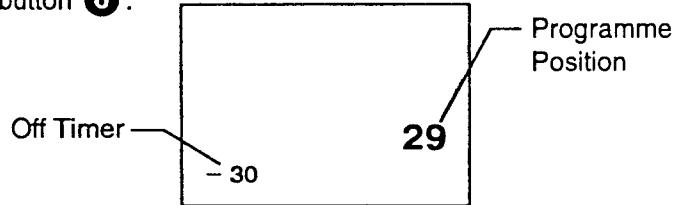
Should you wish to mute the sound (e.g. While talking on the telephone), press the SOUND MUTE **8** button



To switch the sound back on, press the SOUND MUTE button again.

## Recall

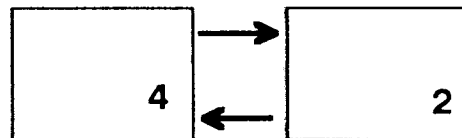
To display the on screen indications, press the RECALL button **6**.



Screen display disappears after about 5 seconds.

## Alternate

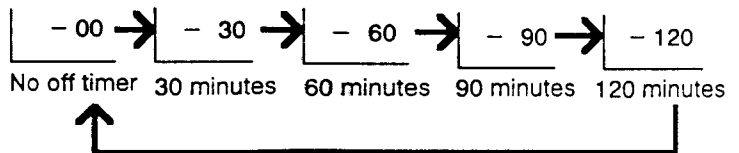
Press the ALTERNATE **7** button, and the programme position will alternately select the previous position and present position.



## Off Timer

Press the OFF TIMER **9** button.

The TV set will be turned off after about 30, 60, 90 or 120 minutes.



Just one minute before switching off the TV, " - 01" and channel number will be displayed on the screen.



To cancel the OFF TIMER:

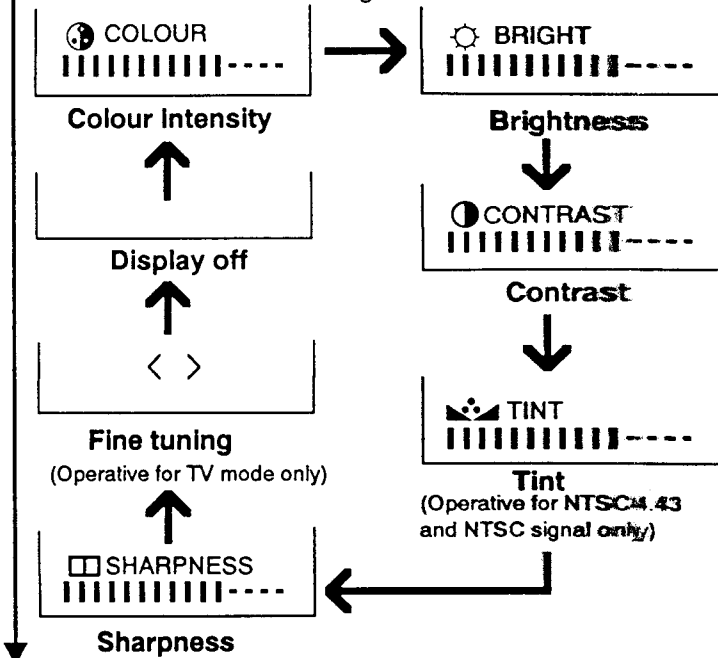
Press the OFF TIMER button until " - 00 " appears.

# General Operation

## Picture Adjustment

- 1 Press the FUNCTION ④ button repeatedly to select the following functions.

■ Each time the FUNCTION button is pressed, function choice will change as follows;



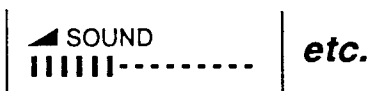
- 2 Increase or decrease the level of the chosen function by pressing the LEVEL ③ + or - button.

## Memory

This function lets you store the settings (for colour, brightness, contrast, tint, sharpness, sound volume) in the memory for both picture and sound, and these setting levels can be recalled by pressing the NORMALIZATION ⑩ button of the remote control transmitter.

To store the picture and sound settings

- 1 Set the picture and sound to the desirable levels.



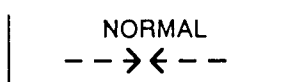
- 2 Press the MEMORY/PRESET ⑤ button while the control function display is still visible on the screen.



NOTE: The control settings will not be saved if the MEMORY button is pressed after the control function display has left the screen.

## Normalization

Press the NORMALIZATION button ⑩. And the colour, brightness, contrast, tint, sharpness and sound volume settings which you stored using the MEMORY button are recalled.

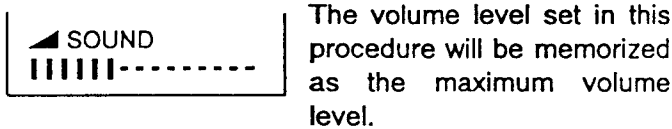


## Maximum volume level setting and suppression of channel tuning

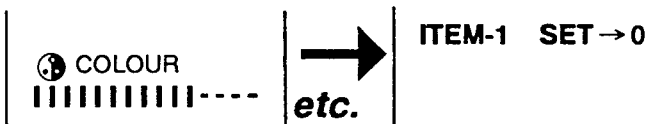
It is possible to set the maximum sound volume at your preference and suppresses the channel tuning function, so that even if the MEMORY/PRESET button is pressed, the channel tuning mode (preset mode) will remain inactive.

### Setting procedure

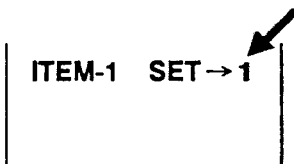
- 1 Set the desirable volume level using the LEVEL **3** button.



- 2 Press and hold the FUNCTION **4** button on the front control panel of the TV set, then press the RECALL/COLOUR SYSTEM **6** button on the remote control transmitter.



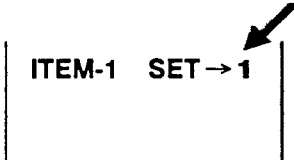
- 3 Select "1", by pressing LEVEL (+ or -) **3** button.



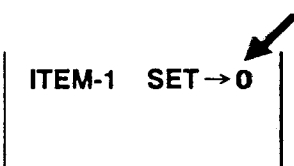
- 4 Press the RECALL/COLOUR SYSTEM **6** button to return to the normal TV mode.

### Cancelling procedure

- 1 Press and hold the FUNCTION **4** button on the front control panel of the TV set, then press the RECALL/COLOUR SYSTEM **6** button on the remote control transmitter.



- 2 Select "0", by pressing LEVEL (+ or -) **3** button.



- 3 Press the RECALL/COLOUR SYSTEM **6** button to return to the normal TV mode.

## Setting of the start up condition for TV programme position

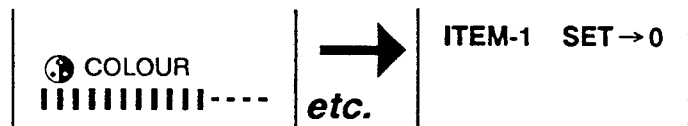
This function can be used to change the start up condition of the TV set. When "SET - 1" is selected in "ITEM - 2", AV position is always selected when the TV is turned on.



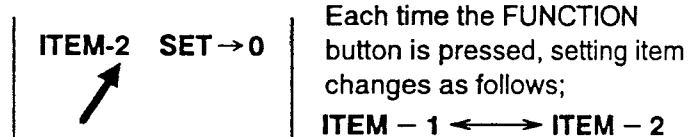
When the TV set is turned on, AV position is always selected.

### Setting procedure

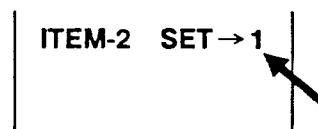
- 1 Press and hold the FUNCTION **4** button on the front control panel of the TV set, then press the RECALL/COLOUR SYSTEM **6** button on the remote control transmitter.



- 2 Select "ITEM - 2" by pressing the FUNCTION **4** button.



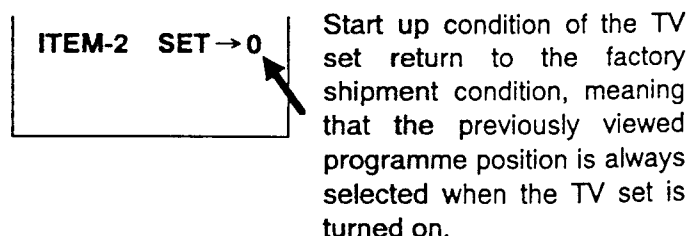
- 3 Select "SET - 1" by pressing the LEVEL (+ or -) **3** button of the remote control transmitter or the TV set.



- 4 Press the RECALL/COLOUR SYSTEM **6** button to return to the normal TV mode.

### Cancelling procedure

Enter to the setting mode with above procedure → Select "ITEM - 2" by pressing the FUNCTION button → Change "SET -> 1" to "SET -> 0" by pressing the LEVEL (+ or -) button → Press the RECALL/COLOUR SYSTEM **6** button to return to normal TV mode.

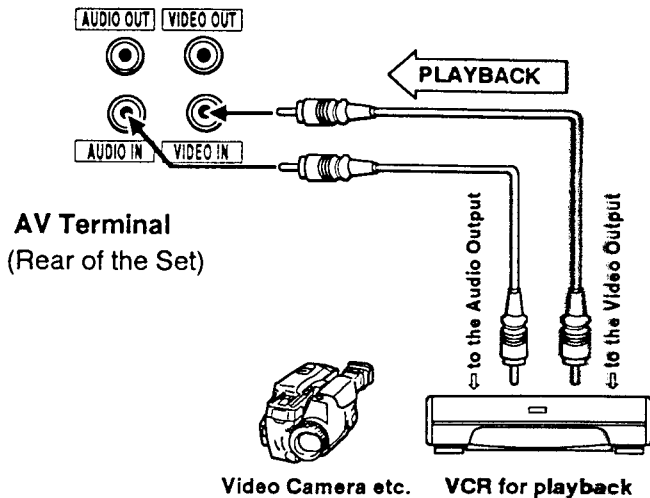


# Connecting other Equipment

## Connecting to the AV Input Jacks

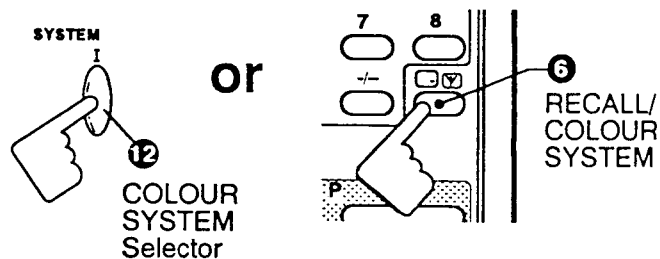
Connect the video and audio outputs of a VCR, video disc player, etc. to the input jacks of this TV set. Tapes and discs can be played back.

### Connecting to the Rear AV Input Jacks

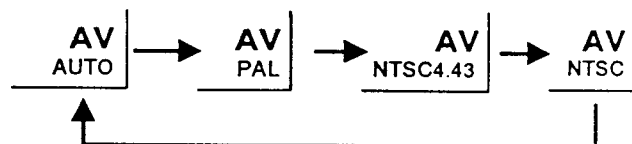


If necessary, select the colour system to match the appropriate AV equipment.

Normally, set the colour system to "AUTO" position, if the clear picture cannot be obtained even when the AV signal is received, press the RECALL/COLOUR SYSTEM button **6** or the COLOUR SYSTEM Selector **12** repeatedly until the optimum image can be produced.



Each time the **6** or **12** button is pressed, the colour system changes as follows;



Colour system setting for AV mode is automatically stored in the memory.

**2** Set the VCR to playback mode.

To return to the TV mode;

Press the TV/AV Selector again.

Note: Pressing either of the Programme UP/DOWN buttons on the remote control or the TV will return the TV to the TV mode.

You can select the TV programme while watching a playback from a VCR

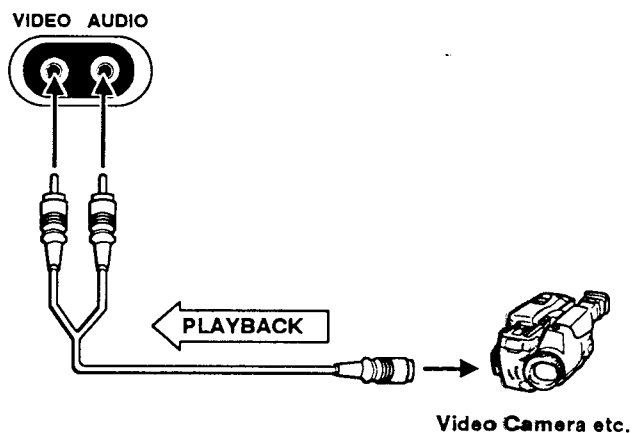
For example:

- To select the programme position "9" while watching a playback from external VCR, press button "9" of the remote control. The TV set returns to the TV mode and programme "9" will be selected.

- To select the programme position "26", press "-- / -" button, "2" then "6" button. The TV set returns to the TV mode and programme "26" will be selected.

### Connecting to the Front AV Input Jacks

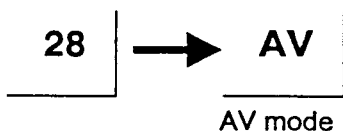
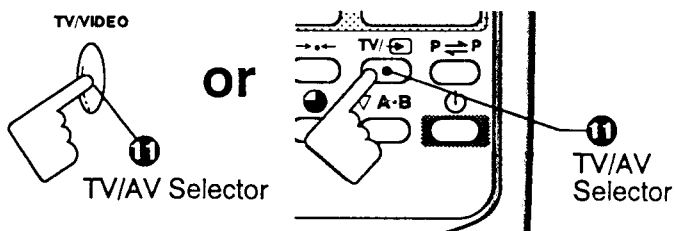
It is convenient to use the Front AV Input jacks for equipment that is often connected and disconnected.



Note: When signals are input both to the Front AV Input jacks and to the Rear AV Input jacks, the signal input to the Front AV Input jacks takes priority.

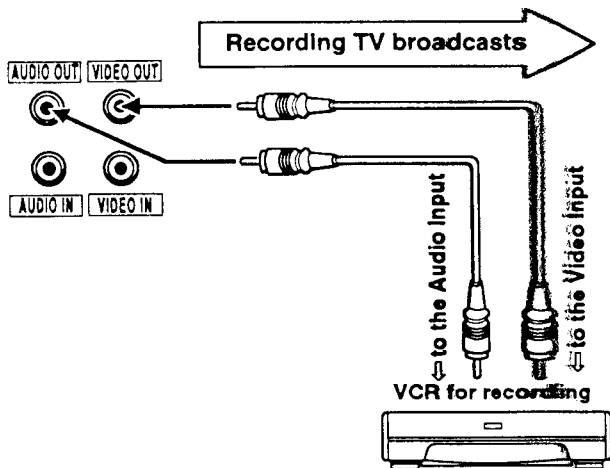
To watch the video input picture

**1** Press the TV/AV Selector **11** to select the AV mode.



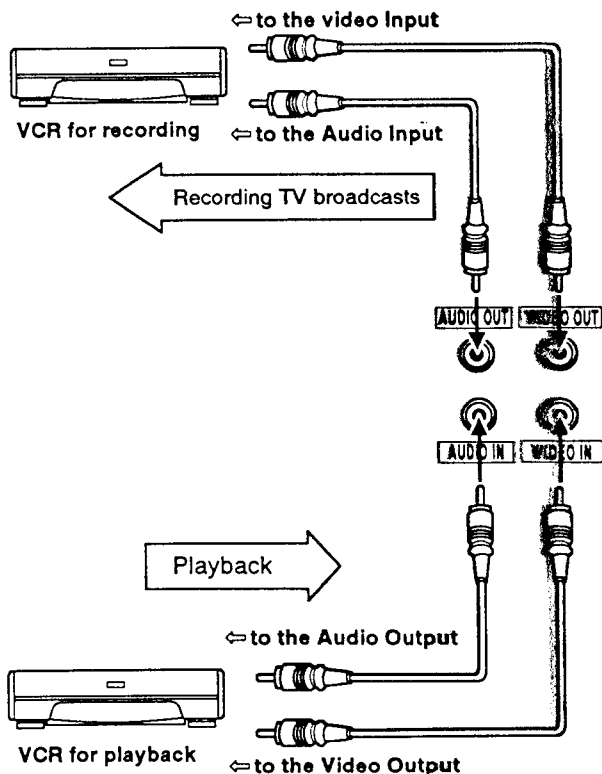
# Connecting other Equipment

## Connecting to the AV Output Jacks



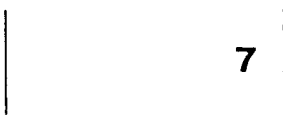
The AV output terminal provides audio and video output for TV broadcasts being received. They are used to record TV broadcasts.

## To record a TV broadcast while watching the playback from a VCR



Example: To record a TV broadcast of programme position "7" while watching the playback from a VCR.

- (1) Select programme position "7".



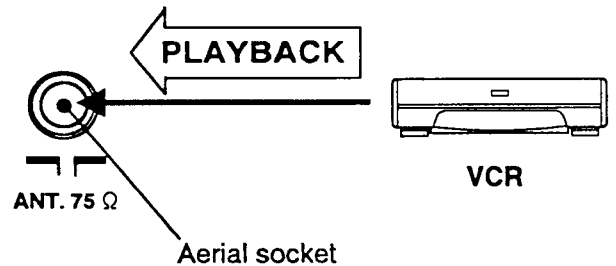
- (2) Set the TV receiver to the AV mode to watch the playback from a VCR.



- (3) Set the VCR for recording to the recording mode.

## AV connection to the Aerial Socket

The AV apparatus can also be connected to the aerial socket of your TV receiver.

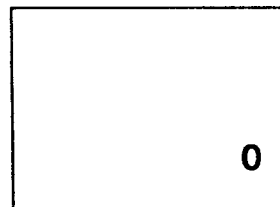


### Presetting to watch the video

- (1) Playback the VCR.
- (2) Tune a channel in programme position 0 (See Semi-auto tuning or Manual tuning on page 8 or 9).

### Watching the video input

Select programme position 0.



For further details concerning this connection and adjustment, refer to the operating instructions for the AV equipment.



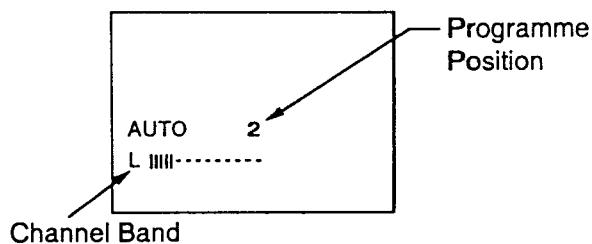
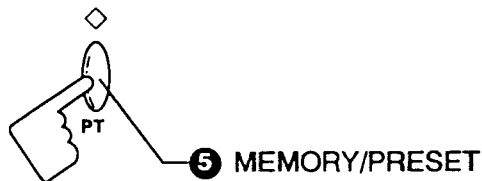
# Tuning of the Channels

Up to 60 broadcast stations in your reception area can be stored in the electronic memory.

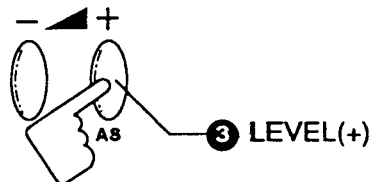
## Automatic Tuning (The basic way)

All receivable channels are automatically tuned in and memorized consecutive programme positions.

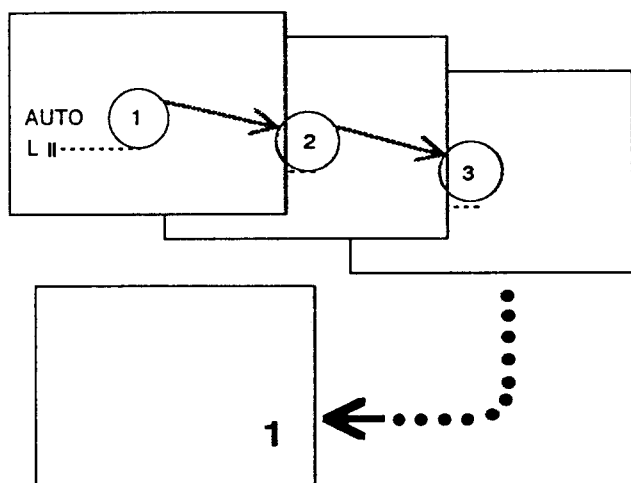
- 1 Press and hold the MEMORY/PRESET button ⑤ for more than 1 second.



- 2 Press the LEVEL(+) ③ button of the TV set.



The channels are preset in consecutive positions beginning from the programme position "1". After all available channels have been preset, the unit returns to the position "1".



Note: To cancel automatic tuning midway, press the MEMORY/PRESET ⑤ or the Power ON/OFF ①-1 button.

## Semi-Auto Tuning

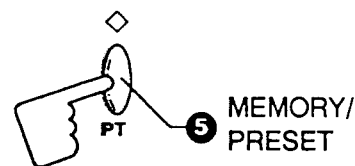
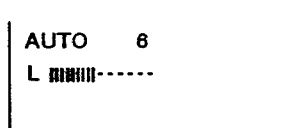
Use to preset a receivable channel in any desired programme position, e.g. the position with same number as the channel.

**Example: To preset a channel in programme position 6.**

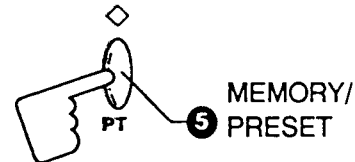
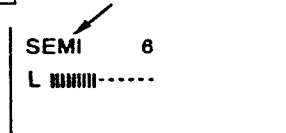
- 1 Select programme position 6 using programme selector ②-1.



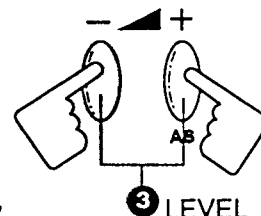
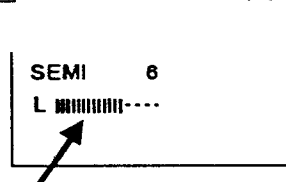
- 2 Press and hold the MEMORY/PRESET ⑤ button for more than 1 second.



- 3 Press the MEMORY/PRESET ⑤ button again.

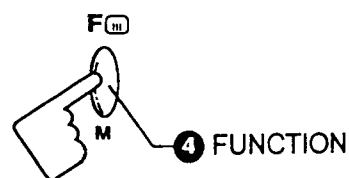
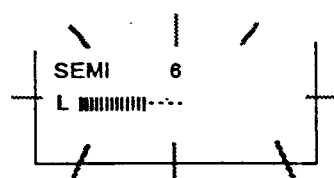


- 4 Press the LEVEL (+) or (-) ③ button of the TV set.

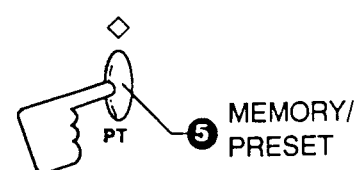


When the station is found, searching stops automatically.

- 5 Press the FUNCTION button ④.



- 6 Press the MEMORY/PRESET button ⑤ twice.



This completes the presetting.

Repeat steps 1 to 6 for other desired channels.

# Tuning of the Channels

## Manual Tuning

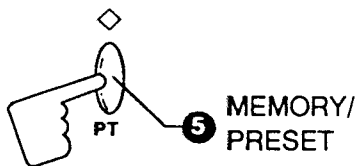
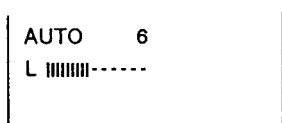
Manually tune a channel if it cannot be automatically tuned, such as when the signal is poor.

**Example: To preset a channel in programme position 6.**

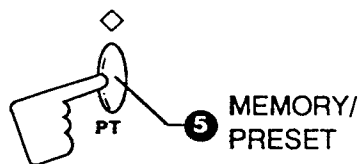
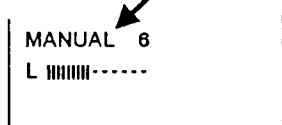
- 1 Select programme position 6 using Programme selector **2-1**.



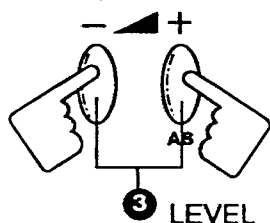
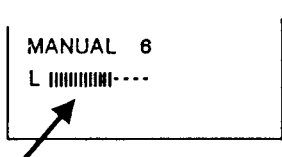
- 2 Press and hold the MEMORY/PRESET button **5** for more than 1 second.



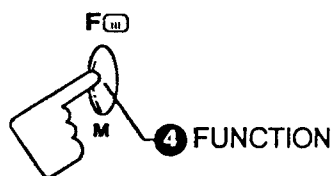
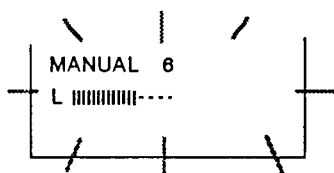
- 3 Press the MEMORY/PRESET button **5** twice.



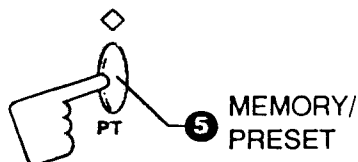
- 4 Press and hold the LEVEL (+) or (-) **3** button of the TV set until the TV station is found.



- 5 Press the FUNCTION button **4**.



- 6 Press the MEMORY/PRESET button **5**.



This completes the presetting.

Repeat steps 1 to 6 for other desired channels.

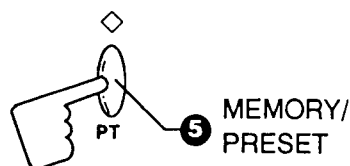
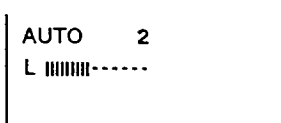
## Channel Copy

**Example: To copy the TV channel in programme position 2 into programme position 6 ;**

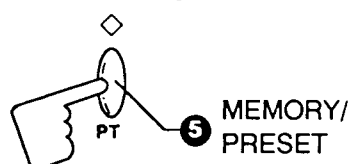
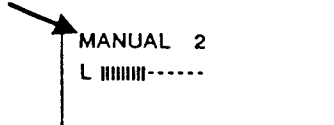
- 1 Select programme position 2 using Programme selector **2-1**.



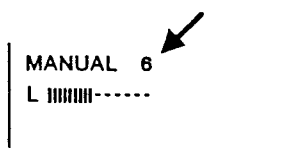
- 2 Press and hold the MEMORY/PRESET button **5** for more than 1 second.



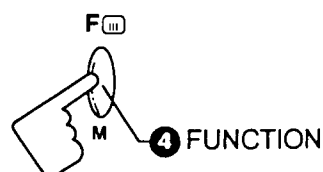
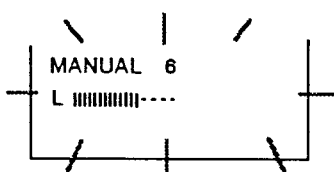
- 3 Press the MEMORY/PRESET button **5** twice.



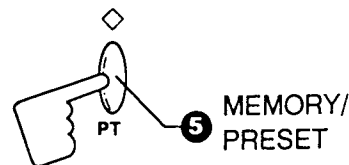
- 4 Select programme position 6 using Programme UP/DOWN **2** button on the TV set or the remote control.



- 5 Press the FUNCTION button **4**.

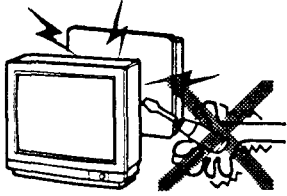


- 6 Press the MEMORY/PRESET button **5**.



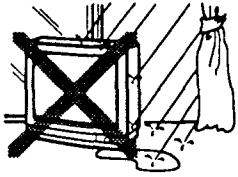
This completes the channel copy.

## Warnings and Cautions



### Warning

High voltages are used in the operation of this television receiver. Do not remove the cabinet back from your set. Refer servicing to qualified service personnel.



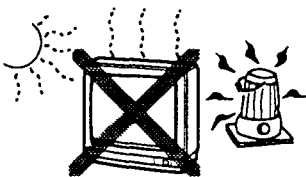
### Warning

To prevent fire or electrical shock hazard, do not expose the television receiver to rain or moisture.



### Warning

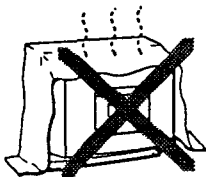
Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.



### Caution

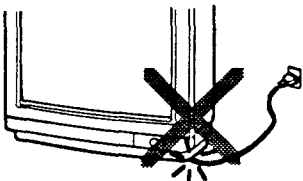
Avoid exposing the television receiver to direct sunlight and other sources of heat.

Do not stand the television receiver directly on other products which give off heat. E.g. video cassette players, audio amplifiers.



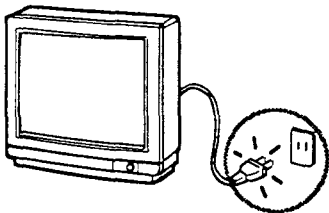
### Caution

Do not block the ventilation holes in the back cover. Adequate ventilation is essential to prevent of electrical components.



### Caution

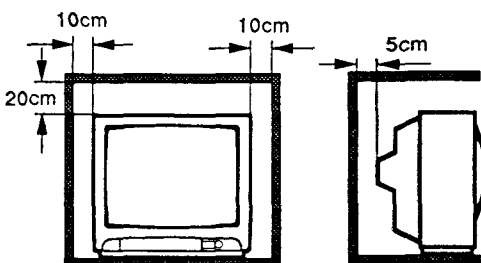
Do not squash power supply cord under the television receiver.



### Caution

When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.

### Minimum distances

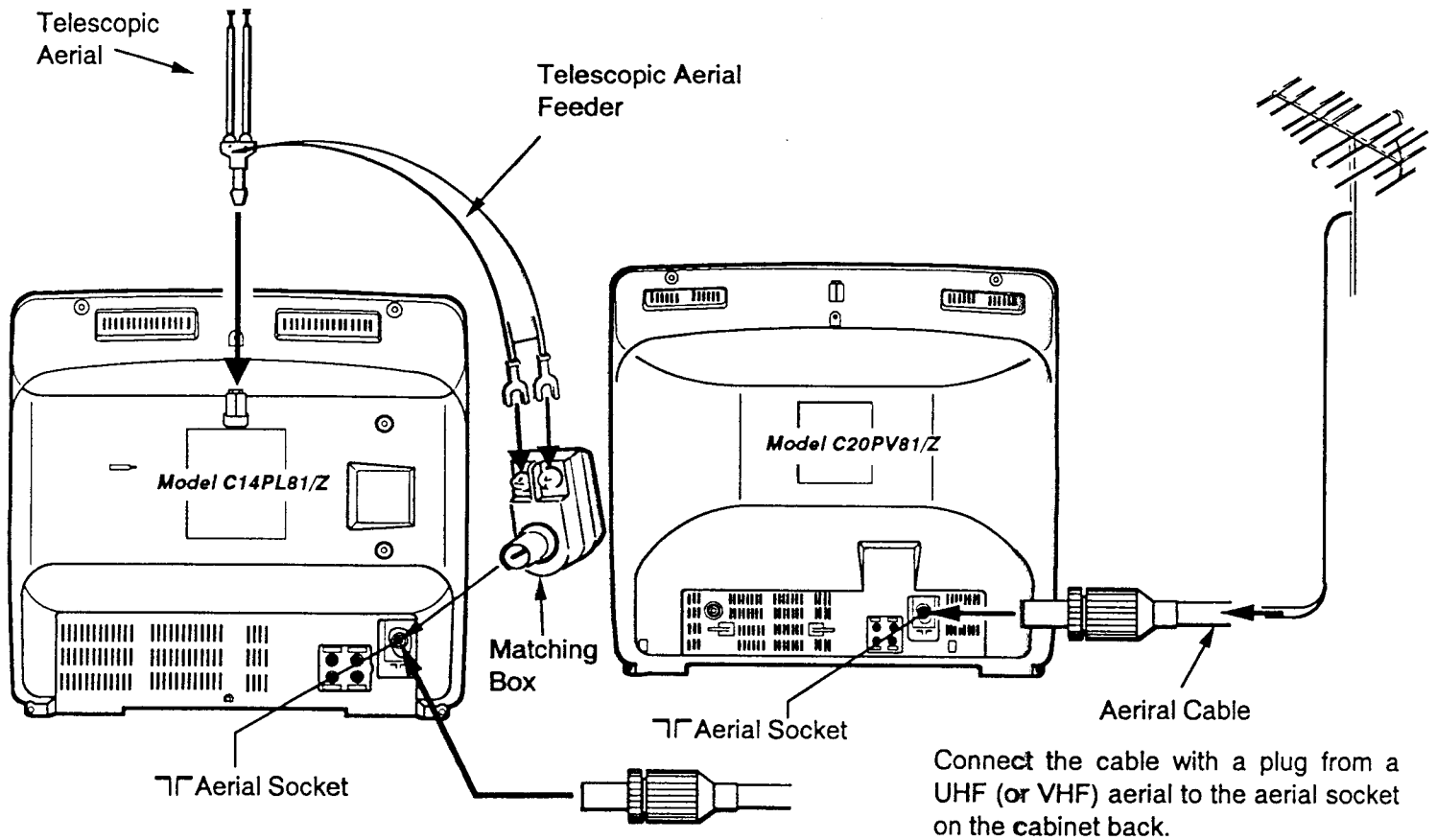


### Caution

If the television is to be built into a compartment or similarly enclosed, the minimum distances must be maintained.

Heat build-up can reduce the service life of your television, and can also be dangerous.

## Aerial Connection



For all aerial circuit problems please consult your local dealer.

## Specification

<b>Power source</b>	AC220-240Volts, 50Hz.
<b>Receiving system</b>	PAL-B/G (AV input: PAL/NTSC/NTSC4.43/ PAL-60Hz)
<b>Channel Coverage</b>	Australian Channels VHF : 0-5, 5A, 6-11 UHF : 28-69  New Zealand Channels VHF : 1-11 UHF : 21-69

<b>Video outputs</b>	Phono Jack x 1 (1.0Vp-p, impedance 75 Ω)
<b>Audio outputs</b>	Phono Jack x 1 (436mVrms, impedance less than 600 Ω)

<b>Dimensions</b>	Model C14PL81, C14PL81Z: 380(W) x 359(H) x 383(D)mm Model C20PV81, C20PV81Z : 496(W) x 465(H) x 479.5(D)mm
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**Aerial input impedance** 75 Ω

**Audio output (Music)** Model C14PL81, C14PL81Z : 3.0W  
Model C20PV81, C20PV81Z : 3.5W

**Ext. terminals** Video Inputs : Phono Jack x 2  
(1.0Vp-p, impedance 75 Ω)  
Audio Inputs : Phono Jack x 2  
(436mVrms, impedance more  
than 40K Ω)

Specifications subject to change without notice.

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