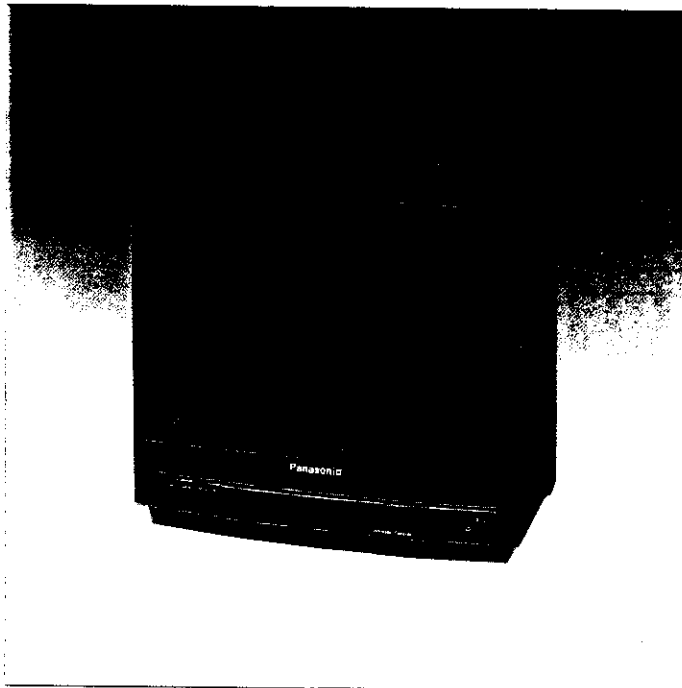


Panasonic

Colour Television

Model Nos. **TC-1480Z**
TC-1471ZR
TC-1471AR



Operating Instructions

Please read these instructions completely before operating this set.

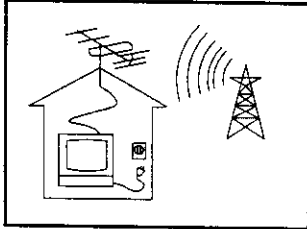
TQB620531-B

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 set.

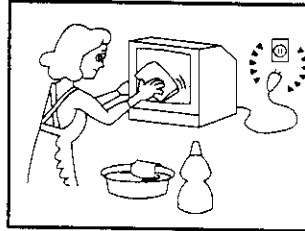
Warning and Cautions

Power Source and TV System

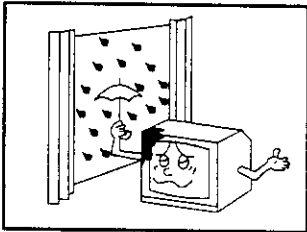


TC-1471AR:
This TV set can be operated on AC 240 V, 50 Hz. It is designed exclusively for broadcast systems PAL B & G.
TC-1480Z / 1471ZR:
AC 230 V, 50Hz.

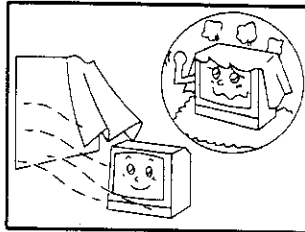
Cabinet and Picture Tube Care



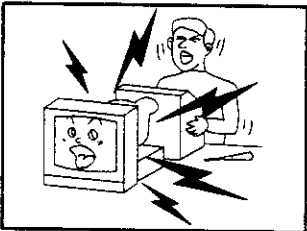
The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, turn the TV set off when cleaning it.



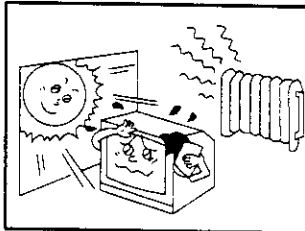
To prevent damage which may result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.



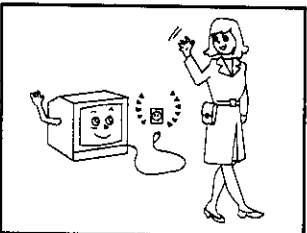
Adequate ventilation is essential to prevent failure of electrical components.



High Voltage :
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 sources of heat.



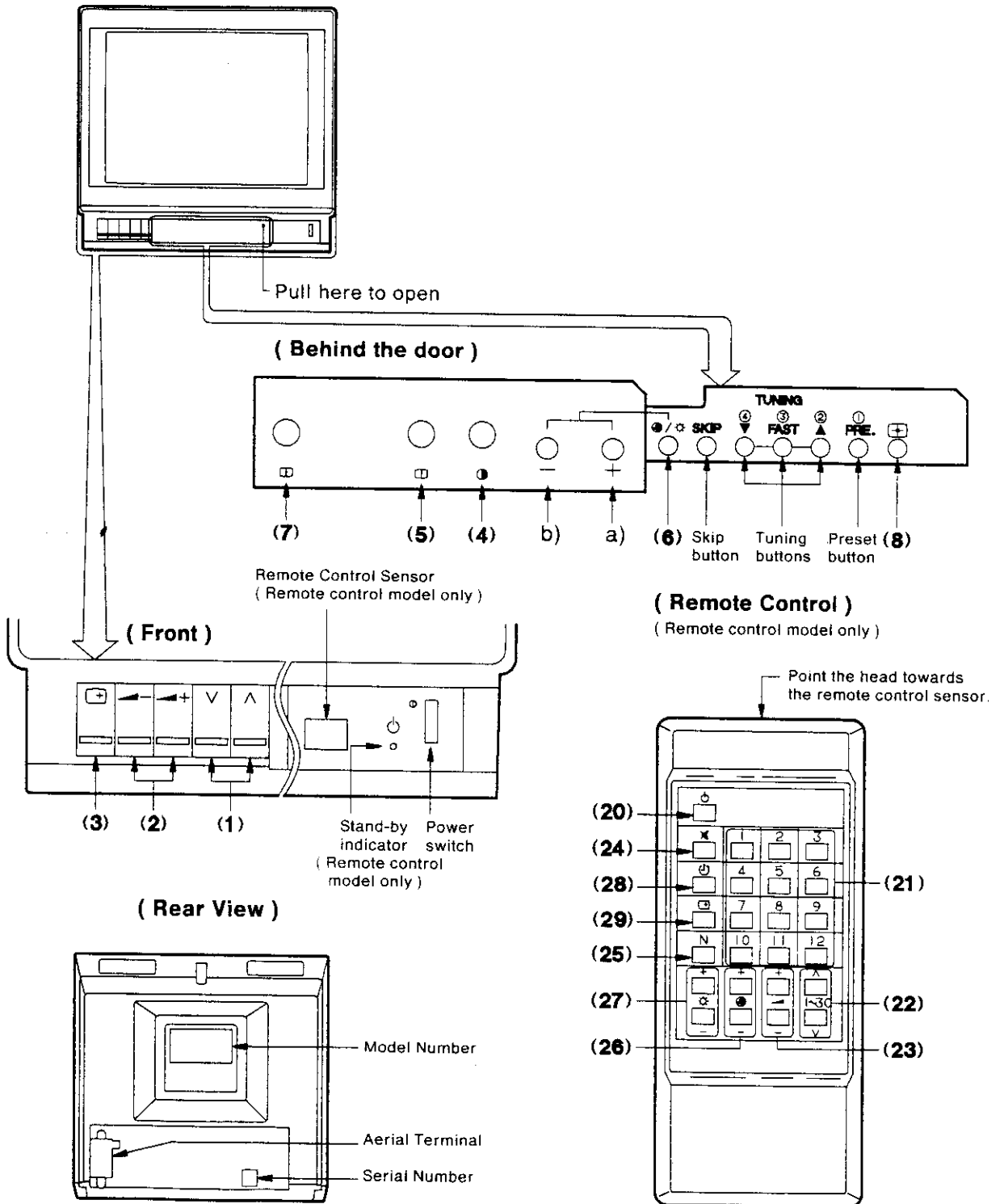
Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.

Contents

Location of controls	2
Operating Instructions (Tuning Procedure)	3-4
General Operation	5
Remote Control Operation (TC-1471AR/ZR only)	6
Battery Replacement and Installation (TC-1471AR/ZR only)	7
Troubleshooting	8
Specifications	9

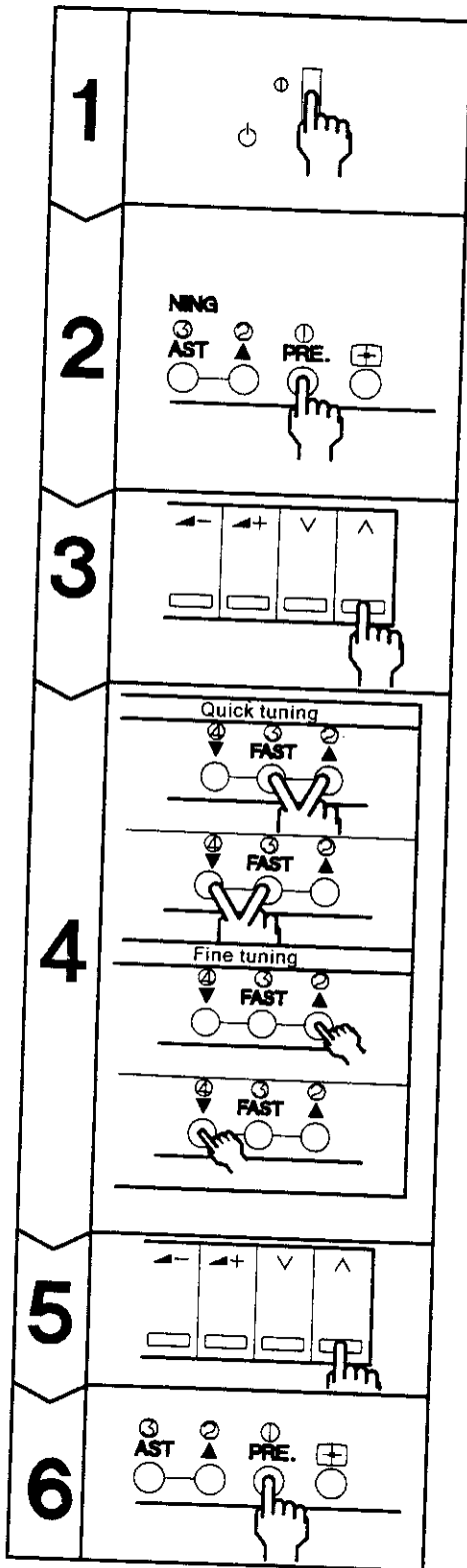
Location of Controls

(The numbers on this page are explained on pages 5 and 6.)
 (Front View)



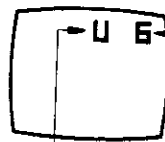
Tuning Procedure

Operation Steps



Push the Power Switch on the TV set to turn it on.

Push the "PRE." (PRESET) Button until the on-screen display appears as shown below.



Programme number (1 ~ 30)

Band Indicator

(VL : VHF Low Band, VH : VHF High Band, U : UHF Band)

Push either the Programme Number Up " ^ " or Down " v " Button to select the desired programme number on which you want to tune the TV Station of your choice.

Quick Tuning – Fast Selection

Push and hold either the Tuning Up " ^ " / Down " v " Button together with the "FAST" Button until the picture of the desired station appears on the screen. When tuning, the TV will search automatically through all of the VHF and UHF band.

Fine Tuning

Push either the Tuning Up " ^ " or Down " v " Button until the picture and sound quality are at their best. When the tuning button is released, this tuning position is automatically memorized.

Repeat steps 3 and 4 to tune all the available TV stations on the remaining programme numbers. (Ensure that a new programme number is set before tuning each station.)

After all station are tuned, push the "PRE." (PRESET) Button to return the TV set to the normal operation mode.

Tuning Procedure

Programme Number Skip Function

This function makes it possible to skip the programme numbers on which no TV stations are tuned. This function is only effective when the Programme Number Up “^” or Down “v” Button is pushed (either on the TV set or the Remote Control).

How to set

1. Select a programme number you want to skip.
2. Push the “PRE.” (PRESET) Button until the on-screen display appears.
3. Push the “SKIP” Button until the programme number and the “SKIP” indication appear.



4. Push the “PRE.” (PRESET) Button again.

How to cancel

1. Push and hold the “PRE.” (PRESET) Button until the on-screen display appears.
2. Select the desired programme number with the Programme Number Up “^” or Down “v” Button.
3. Push and hold the “SKIP” Button until the “SKIP” indication disappears.
4. Push the “PRE.” (PRESET) Button again.

General Operation

(Refer to diagram on page 2)

(1) Programme Number Up and Down Buttons

Push the Programme Number Up “^” Button to select the higher programme numbers.
Push the Programme Number Down “v” Button to select the lower programme numbers.

(2) Volume Up “+” and Down “-” Buttons

Push the Volume Up “+” Button to increase the sound level.
Push the Volume Down “-” Button to decrease the sound level.

(3) Recall Button

Push the Recall Button to activate the on-screen display.
The current programme number will be displayed.

(4) Contrast Control

Adjust for proper contrast level.

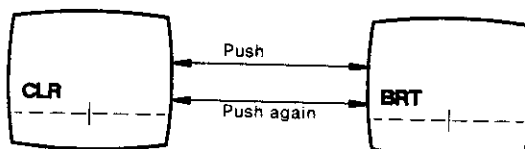
(5) Sharpness Control

Adjust for sharpness of the picture.

(6) Colour / Brightness Selection Button

Push the Colour / Brightness Button.
The “CLR” or “BRT” indication will appear on the screen. Push either the Up “+” or the Down “-” Button to change the level of the selected function as shown below.

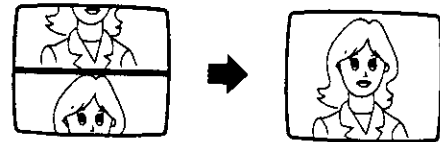
Colour function **Brightness function**



- a) Push the “+” Button to increase the level of selected function level.
- b) Push the “-” Button to decrease the level of selected function level.

(7) Vertical-Hold Control

Adjust this control if the picture rolls either up or down.



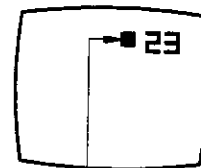
(8) AFC Button

Under normal reception conditions, the AFC Button is not used.

However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

How to set

1. Push the “PRE.” (PRESET) Button until the on-screen display appears.
2. Push either the Tuning UP “▲” or Down “▼” Button for slight adjustment.
3. Push the AFC Button. The “■” symbol appears at the left side of the programme number on the screen.



AFC OFF symbol appears

4. Push the “PRE.” (PRESET) Button again.

Remote Control Operation

(Refer to diagram on page 2.)

The Remote control can only be used when the "Power" Switch on TV set is in the ON position.

(20) Power (Stand-by) Button

Push this button to turn the TV set off.
(The Stand-by Indicator will light up.)
Push it again to turn the TV set on.

Note :

Do not leave the TV set in the stand-by condition for long periods of time.
It is better to switch it off when you are away for extended periods of time.

(21) Direct Programme Selection Buttons

Push one of the 12 Programme Selection Buttons, to select one of the programme numbers 1 ~ 12 directly.
The programme numbers 13 ~ 30 can be selected with the Programme Number Up " ^ " or Down " v " Button.

(22) Programme Number Up and Down Buttons

Push the Programme Number Up " ^ " Button to select the higher programmes.
Push the Programme Number Down " v " Button to select the lower programmes.

(23) Volume Up " + " and Down " - " Buttons

Push the Volume Up " + " Button to increase the sound level.
Push the Volume Down " - " Button to decrease the sound level.

(24) Sound Mute Button

Push this button once to mute the sound.
The on-screen display of the previous sound level will appear in red.
Push the button once again or push the Volume "Up" or "Down" Button to restore the previous sound level.

(25) Normalization Button

When this button is pushed, the colour and brightness are automatically reset to the factory-preset levels.

(26) Colour Up and Down Buttons

Push the Colour Up " + " Button to increase the colour (saturation) level.
Push the Colour Down " - " Button to decrease the colour (saturation) level.

(27) Brightness Up and Down Buttons

Push the Brightness Up " + " Button to increase the brightness level.
Push the Brightness Down " - " Button to decrease the brightness level.

(28) Off-Timer Button

The TV set may be pre-set to switch off after a fixed period. Pushing the Off Timer button will set the TV for 30 minutes, push again to set 60 minutes and again for 90 minutes.

Pushing the button once more will return the Off Timer to zero.



When a time for switch off has been set, the pre-set time will be displayed on the screen in the bottom right hand corner until the preset time expires or is cancelled.

Off Timer may be cancelled in the following ways :

1. Set the Off Timer condition to "00" using the Off Timer button.

Note :

- This only cancels the Off Timer command but does not switch off the TV set.
2. Turning the TV set off, using the "Power" button on the Remote Control or the "Power" switch on the TV set.

(29) Recall Button

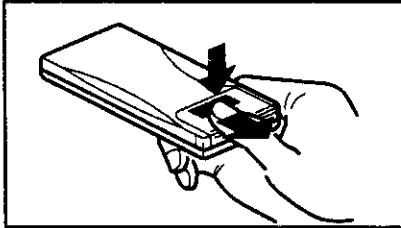
Push the Recall Button to activate the on-screen display.

The current Programme Number will be displayed.

Battery Installation and Replacement

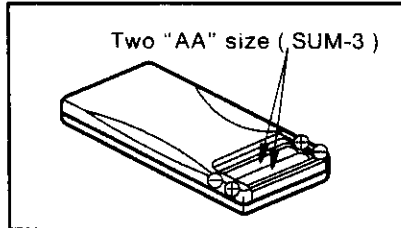
(Remote control model only)

Batteries : Use two "AA" size (SUM-3) dry cells.



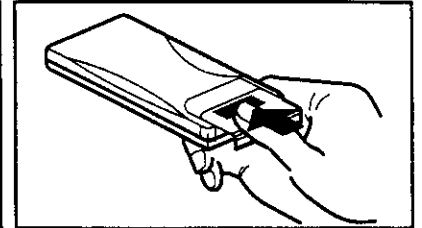
1. Open the cover.

(Press down and slide the cover out.)



2. Replace the batteries.

(Insert the batteries with the correct polarity as indicated by the (+) and (-) symbols.)

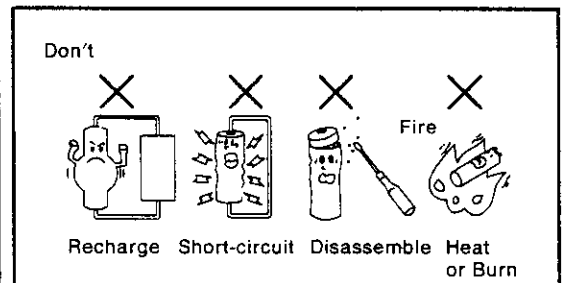
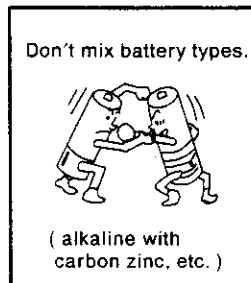
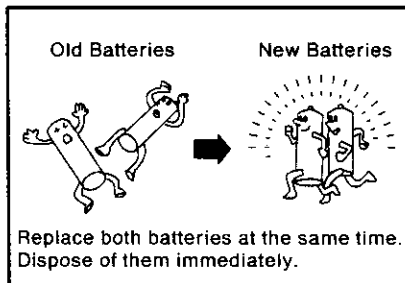


3. Replace the cover.

(A snap-lock holds the cover in place.)

Battery precautions

Incorrect use of batteries can cause electrolyte leakage which will corrode the remote control transmitter or cause the batteries to burst. The following precautions must be carefully observed.



Specifications

Power Source :	AC 230 V, 50 Hz (TC-1480Z,TC-1471ZR) AC 240 V, 50 Hz (TC-1471AR)												
Power Consumption :	65 W Stand-by 7W (Remote control model only)												
Receiving System :	PAL System B & G												
Receiving Channels:	<table> <tr> <td></td> <td>(TC-1480Z)</td> <td>(TC-1471ZR)</td> <td>(TC-1471AR)</td> </tr> <tr> <td>VHF</td> <td>1 - 11</td> <td></td> <td>0 - 11</td> </tr> <tr> <td>UHF</td> <td>21 - 69</td> <td></td> <td>28 - 34, 39 - 63</td> </tr> </table>		(TC-1480Z)	(TC-1471ZR)	(TC-1471AR)	VHF	1 - 11		0 - 11	UHF	21 - 69		28 - 34, 39 - 63
	(TC-1480Z)	(TC-1471ZR)	(TC-1471AR)										
VHF	1 - 11		0 - 11										
UHF	21 - 69		28 - 34, 39 - 63										
Picture Tube :	<table> <tr> <td>(TC-1480Z, TC-1471ZR)</td> <td>(TC-1471AR)</td> </tr> <tr> <td>36 cm (14 inches)</td> <td>34 cm (14 inches)</td> </tr> <tr> <td>measured diagonally,</td> <td>measured diagonally,</td> </tr> <tr> <td>90° deflection</td> <td>90° deflection</td> </tr> </table>	(TC-1480Z, TC-1471ZR)	(TC-1471AR)	36 cm (14 inches)	34 cm (14 inches)	measured diagonally,	measured diagonally,	90° deflection	90° deflection				
(TC-1480Z, TC-1471ZR)	(TC-1471AR)												
36 cm (14 inches)	34 cm (14 inches)												
measured diagonally,	measured diagonally,												
90° deflection	90° deflection												
Audio Output :	2.5 W (Max.)												
Dimensions (W x D x H) :	362 x 379 x 349 mm												
Mass (Weight) :	9.7kg (Net) (TC-1480Z) 10.0kg (Net) (TC-1471AR/ZR)												

Customer's Record

The serial number of this product can be found on its rear cover. You should note the serial number of this unit in the space provided below and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number _____

Serial Number _____

TV Games and Home Computers (TC-1471AR only)

The extended use of TV Games and Home Computers with any television set can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programmes in the form of the stationary TV Game and Home Computer objects. This type of irreversible damage to the picture tube that TV Games and Home Computers cause, can be limited by observing the following steps.

1. Reduce the brightness/contrast setting to a minimum viewing level during TV Game and Home Computer operation.
2. Do not operate the television set with TV Games and Home Computers continuously for extended periods of time.
3. Be sure to turn the television set off when not actually using it.

The permanent shadow image on the picture tube resulting from excessive TV Game and Home Computer use is not an operation defect and is as such not covered by Panasonic (Aust.) Pty. Limited. Warranty. Television sets are not designed to display TV Game and Home Computer patterns continuously for extended periods of time.

Matsushita Electric Industrial Co., Ltd.

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Printed in Japan
S0887