Panasonic

Colour Television TX-21T4M TX-21T4Z

Operating Instructions

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

TQB4G0059

.

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.

Contents

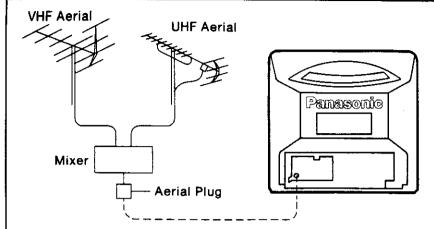
Contents

Basic Operation on the TV Set	2 6
General Operation on the Remote Controller 5 Basic Operation of Teletext 5 Teletext Operation	4
List Mode Access	6
Text Sub page Access	n
lext ALAHM Page Access	4
Reset/Mix/Hold/Reveal	
Operation for VCR)

Before operating this set

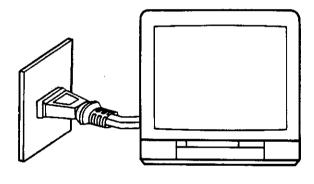
Preparations

Connect the Aerial Cable to the RF In Terminal



How to connect an AerialFor connection details refer to page 18.

Connect the Plug to the wall outlet



Connect the AC Plug to AC Outlet

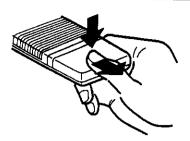
Note:

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

For Warnings and Cautions details, refer to page 70.

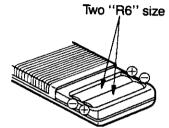
Battery Installation and Replacement

Batteries: Use two "R6" size alkaline batteries



Open the cover.

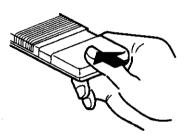
Push down stopper and remove the cover.



Replace the batteries.

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

3



Replace the cover.

Do not use rechargeable (Ni-Cd) batteries.

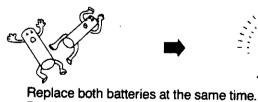
They are partially different in shape and performance and may fail to ensure the desired function.

Battery precautions

The 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 observed carefully.

Old Batteries

New Batteries









Don't mix battery types (alkaline with carbon zinc, etc.)

Don't



Dispose of them immediately.



Short-circuit



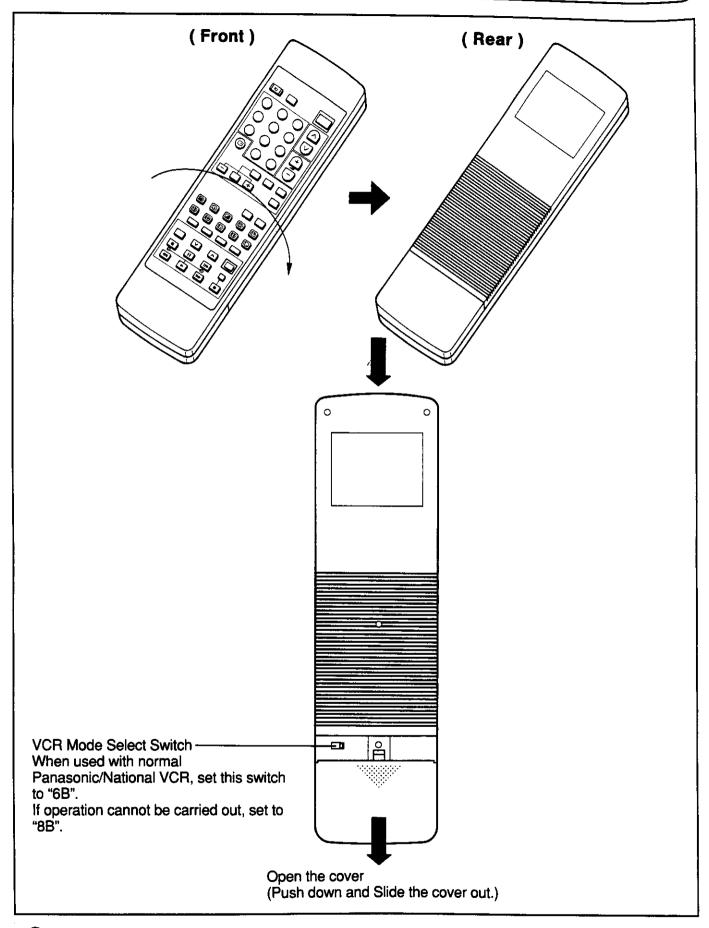
Disassemble



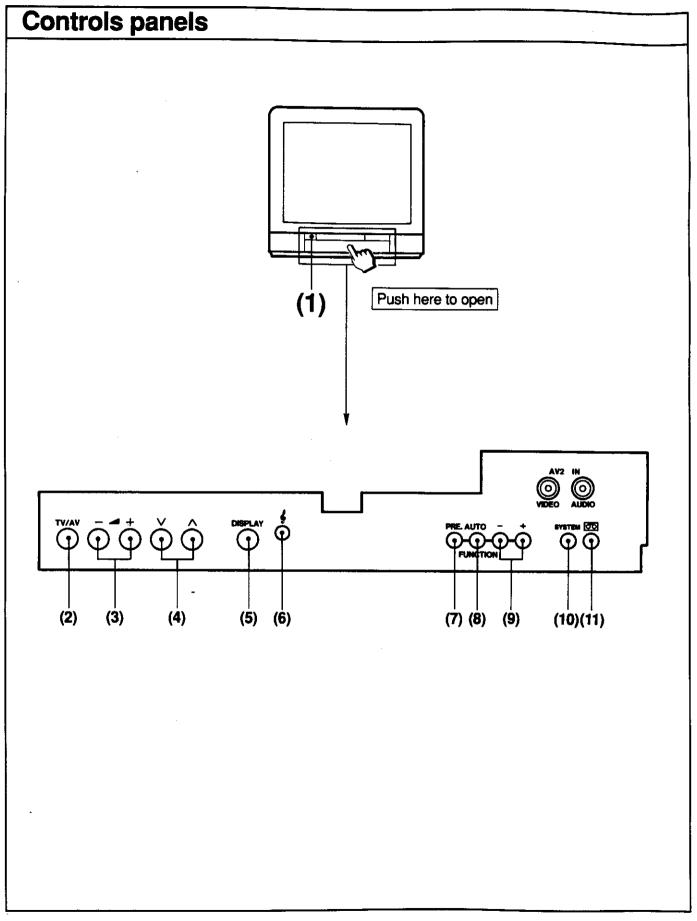


Heat or Burn

VCR Mode Selection

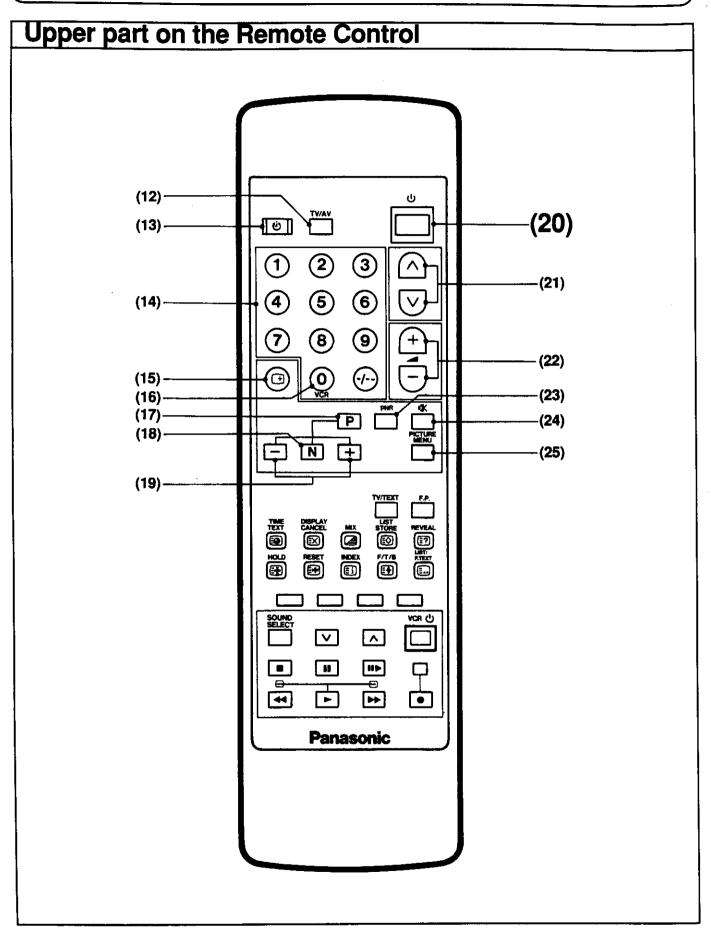


Location of Controls for TV set

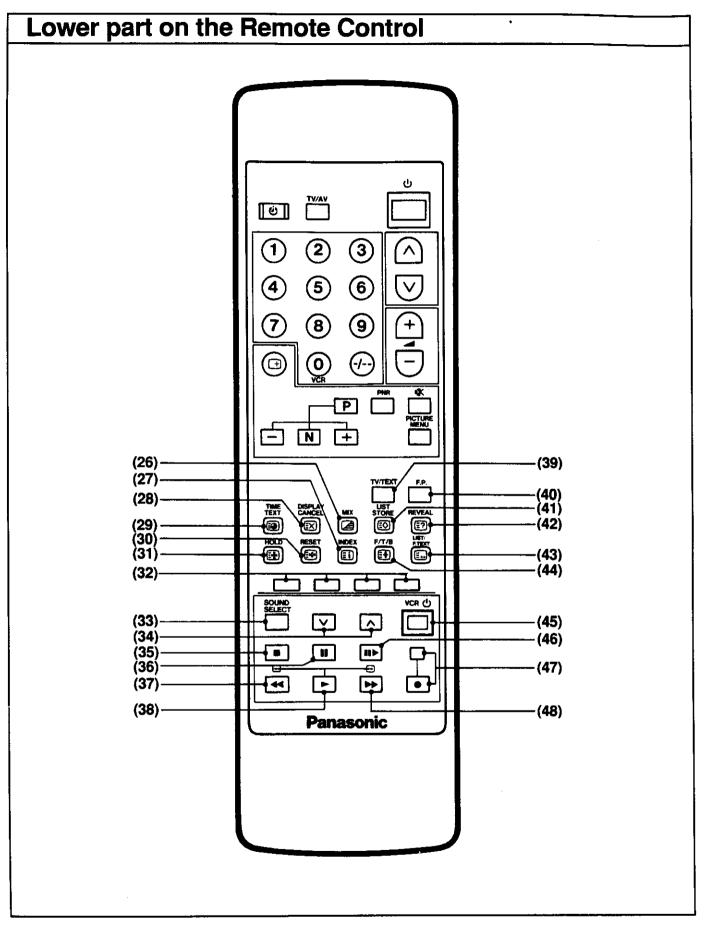


Location of Controls for TV set

No.	Description
_(1)	Power Switch
(2)	TV/AV Selection Button
(3)	Volume Up and Down Buttons
(4)	Programme Number Up and Down Buttons
(5)	Display Button
(6)	Tone Control
<u>(7)</u>	Preset Button
_(8)	Auto/Function Button
(9)	Level Adjust Buttons
(10)	System Selection Button
(11)	Game Position Button

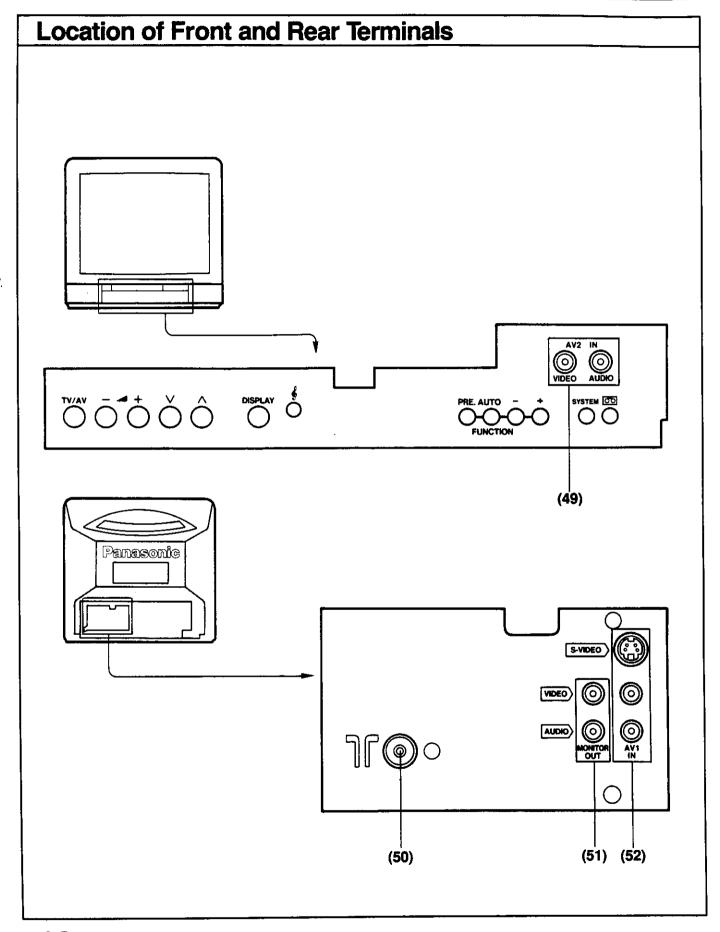


Description
TV/AV Selection Button
Off-Timer Button
Direct Programme Number Selection Buttons
Recall Button
O/VCR Button
Picture Function Button
Normalisation Button
Function level Up and Down Buttons
Power (Stand-by) Button
Programme Number Up and Down Buttons
Volume Up and Down Buttons
Picture Noise Reduction Button
Mute Button
Picture Menu Button



No.	Description
(26)	Mix Button
(27)	Index Button
(28)	Display Cancel Button
(29)	Time Text Button
(30)	Reset Button
(31)	Hold Button
(32)	Colour-coded Buttons
(33)	Sound Selection Button for VCR
_(34)	Programme Number Up and Down Buttons for VCR
(35)	Stop Button
(36)	Pause Still Button
(37)	Rewind/Review Button
(38)	Play Button
(39)	TV/TEXT Selection Button
(40)	Favorite Page Selection Button
_(41)	List Store Button
(42)	Reveal Button
(43)	List/F. TEXT Button
(44)	Full/Top/Bottom Button
(45)	VCR Power Button
(46)	Still Advance Button
(47)	Record Buttons
(48)	Fast Forward Button

Location of Terminals



Location of Terminals

No.	Description	
(49)	AV 2 Input Terminals	
(50)	Aerial Terminal	
(51)	Monitor Out Terminals	
(52)	AV 1 Input Terminals	

How to Connect an Aerial

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

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

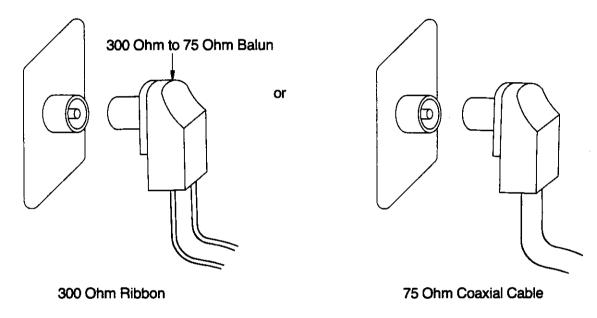
Your local Television Service Agent or Dealer may be able to assist you in obtaining the correct Aerial system for your particular area and any accessories required.

Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of the customer.

Note:

If your existing Aerial system uses 300 Ohm ribbon cable you will require to use a 300 Ohm to 75 Ohm Balun.

See below.



Automatic Turn-off Function

Noise Timer

If the set is not switched off when the TV station stops transmitting.

It will automatically go to stand-by condition after 30 minutes.

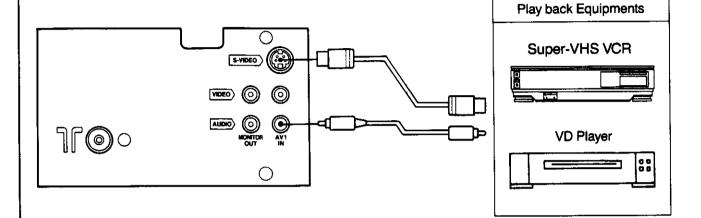
Note:

This function will not operate when the Television receiver is on AV mode.

Connection

Pattern 1: Via the "AV1" S-Video and Audio Terminals

Connect the "AV1" (S-Video and Audio) Terminals and Other Equipments as follows.

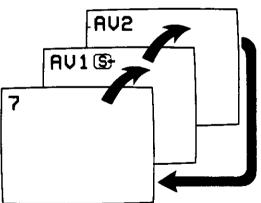


AV1 Select Operation on the TV set

1.



Select the "AV1" mode by pushing this button, you can sequentially select TV and two AV modes (AV1 and AV2), as shown below. Selecting mode will appear on the top left of the screen.



Note:

When the S-Video cable is connected to AV1 (S-Video) Terminal, the "S-Video" symbol will be displayed on the screen as shown left.

2.



Push the "PLAY" Button on the Connected Equipment.

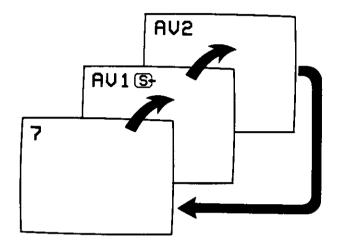
AV1 Select Operation on the Remote Controller

1.



Push the "TV/AV" Button on the Remote Controller. Then last selected AV mode will be displayed on the screen.

Select the "AV1" mode by pushing this button, you can sequentially select TV and two AV modes, as shown below.



Note:

When the S-Video cable is connected to AV1 (S-Video) Terminal, the "S-Video" symbol will be displayed on the screen as shown left.

2.



Push the "PLAY" Button on the Connected Equipment.

Helpful Hint

SYSTEM



System Button

On the AV mode, if the clear picture cannot be obtained even when the AV signal is received, push the System Button repeatedly until the optimum image can be produced.

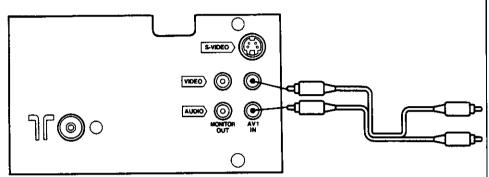
For operation details, refer to "System Select Operation" on page 41.

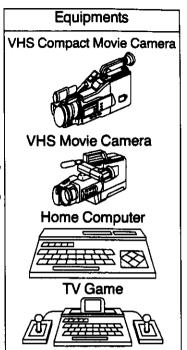
Note:

- (1) When AV mode (AV1 and AV2) is selected and the selected AV mode has no AV signal, the On-screen will be changed from Black out picture to Colour back picture.
- (2) When the played back picture may be unstable, then by pushing "Play" Button you can obtain the clear picture.
- (3) When the S-Video cable is connected to S-Video Terminal, Input Terminal will be changed from Video to S-Video Terminal.

Pattern 2: Via the "AV1" Video and Audio Terminals

Connect the "AV1" (Video and Audio) Terminals and Other Equipments as follows.





AV1 Select Operation on the TV set

1.



Select the "AV1" mode by pushing this button, you can sequentially select TV and two AV modes (AV1 and AV2), as shown below.

Selecting mode will appear on the top left of the screen.

AU2 AU1 7

2.



Push the "PLAY" Button on the Connected Equipment.

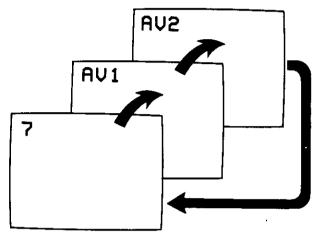
AV1 Select Operation on the Remote Controller

1.



Push the "TV/AV" Button on the Remote Controller. Then last selected AV mode will be displayed on the screen.

Select the "AV1" mode by pushing this button, you can sequentially select TV and two AV modes, as shown below.



2.



Push the "PLAY" Button on the Connected Equipment.

Helpful Hint

SYSTE

System Button

On the AV mode, if the clear picture cannot be obtained even when the AV signal is received, push the System Button repeatedly until the optimum image can be produced.

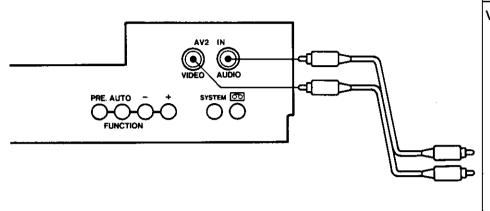
For operation details, refer to "System Select Operation" on page 41.

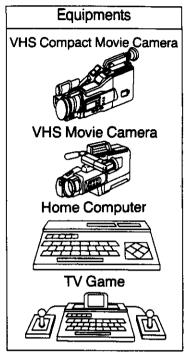
Note:

- (1) When AV mode (AV1 and AV2) is selected and the selected AV mode has no AV signal, the On-screen will be changed from Black out picture to Colour back picture.
- (2) When the played back picture may be unstable, then by pushing "Play" Button you can obtain the clear picture.
- (3) When the S-Video cable is connected to S-Video Terminal, Input Terminal will be changed from Video to S-Video Terminal.

Pattern 3: Via the "AV2" Video and Audio Terminals

Connect the "AV2" (Video and Audio) Terminals and Other Equipments as follows.



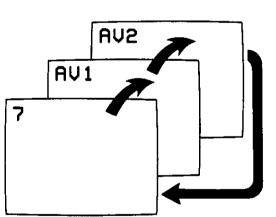


AV2 Select Operation on the TV set

1.



Select the "AV2" mode by pushing this button, you can sequentially select TV and two AV modes (AV1 and AV2), as shown below.



Selecting mode will appear on the top left of the screen.

2.



Push the "PLAY" Button on the Connected Equipment.

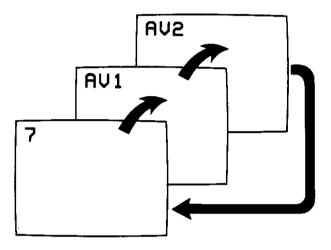
AV2 Select Operation on the Remote Controller

1.



Push the "TV/AV" Button on the Remote Controller. Then last selected AV mode will be displayed on the screen.

Select the "AV2" mode by pushing this button, you can sequentially select TV and two AV modes, as shown below.



2.



Push the "PLAY" Button on the Connected Equipment.

Helpful Hint

SYSTEM



System Button

On the AV mode, if the clear picture cannot be obtained even when the AV signal is received, push the System Button repeatedly until the optimum image can be produced.

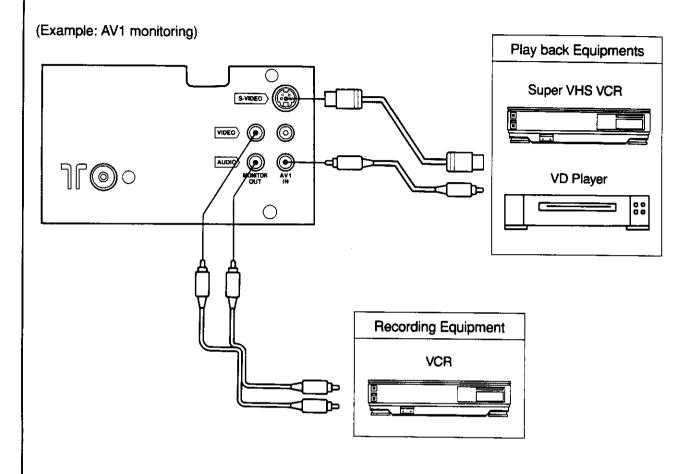
For operation details, refer to "System Select Operation" on page 41.

Note:

- (1) When AV mode (AV1 and AV2) is selected and the selected AV mode has no AV signal, the On-screen will be changed from Black out picture to Colour back picture.
- (2) When the played back picture may be unstable, then by pushing "Play" Button you can obtain the clear picture.

Pattern 4: Via the "Monitor Out" Terminals

Connect the "Playback" Equipment and "Recording" Equipment via the TV set as follows.



"Monitor Out" Terminals contain signals which are on the TV screen at that time, e.g. TV programmes or signals from AV1 or AV2 input.

Operation

- Select the desired AV mode. In this case, select the AV1 (S-VIDEO) mode. For Operation details refer to page 20 to 21.
- **2.** Push the "PLAY" Button on the Connected Equipment.

Note:

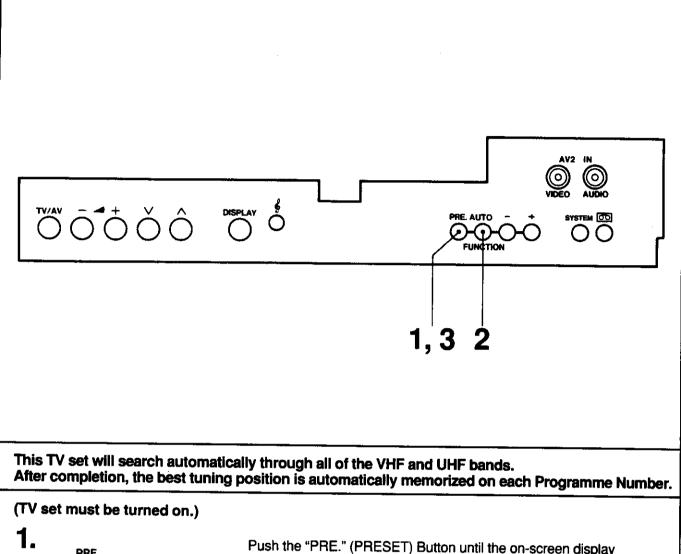
Never connect the same video recorder to both the VIDEO IN and VIDEO OUT Terminals on this TV set, as this would cause malfunction and could lead to accidents.

Helpful Hint

VCR Operation

If during the operation in "CUE" or "REVIEW" Mode, a Coloured Screen appears on the television, the "Picture Noise Reduction" Function needs to be set "On" (PNR ON) by pushing the "PNR" Button on the Remote Control Handset.

Tuning Procedure (Automatic Search)

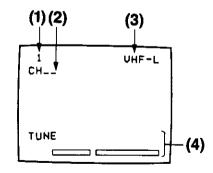




Push the "PRE." (PRESET) Button until the on-screen display appears as shown below.



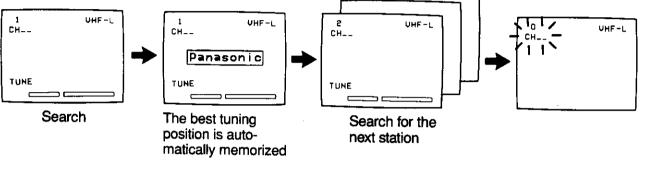
- (2) Name Write
- (3) Band
- (4) Tuning bar



Tuning Procedure (Automatic Search)

Push the "Auto Function" Button.

Push the "Auto Function" Button.



3.

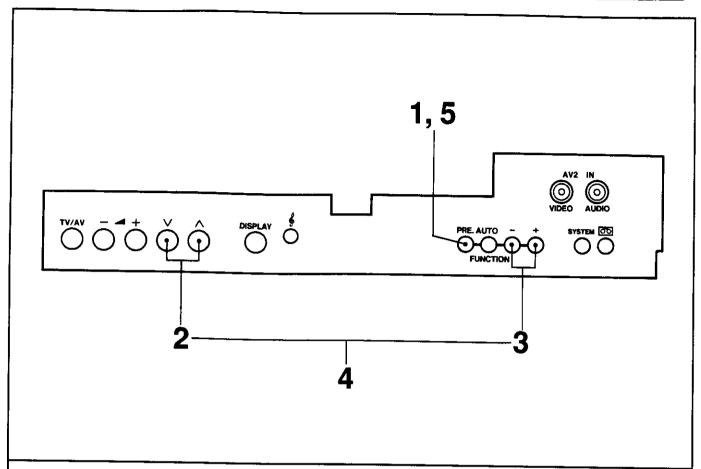


Return the TV set to the normal operation mode by pushing this button twice. A maximum of 30 channels can be programmed.

Helpful Hint

- (1) If you need the station name on the screen display together with programme position, for operation details, refer to the Name Writing operation on page 36 to 37.
- (2) After all stations are tuned, Push the Programme Number "Up" Button to confirm the tuning condition for each Programme Position, If Programme Position is undesired, it possible to skip the Programme Number, refer to the Programme Number skip operation on page 38 to 39.

Tuning Procedure (Manual Search)



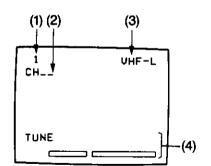
In case only few TV broadcastings can be received in your area, this Manual Search operation may be preferable.

(TV set must be turned on.)

1.



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



- (1) Programme Position Number
- (2) Name Write
- (3) Band
- (4) Tuning bar

Tuning Procedure (Manual Search)

2.



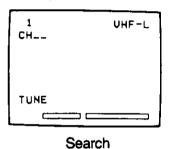
Push either the programme Number Up "\" or Down "\" Button to select the desired programme number on which you want to tune the TV station of your choice.

3.

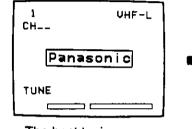


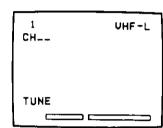
Push either the Level Adjust Up "+" or Down "-" Button, the TV station broadcasting on the next higher or lower frequency will be automatically tuned and memorized.

Upward Search



→





The best tuning position is automatically memorized

If an undesired TV station is received, push the same button again until the desired TV station is tuned.

4.

Repeat steps 2 and 3 to tune all the available TV stations on the remaining programme numbers.

Note:

Ensure that a new programme number is set (Step 2) before tuning the next station.

5.



Return the TV set to the normal operation mode by pushing this button 3 times.

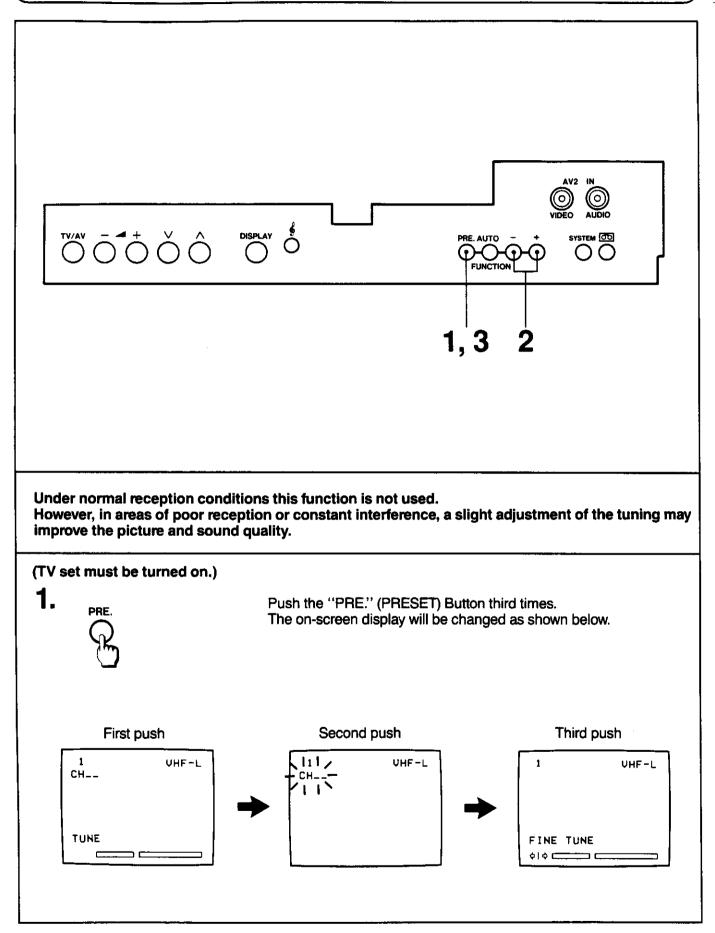
A maximum of 30 channels can be programmed.

Helpful Hint

(1) If you need the station name on the screen display together with programme position, for operation details, refer to the Name Writing operation on page 36 to 37.

(2) After all stations are tuned, Push the Programme Number "Up" Button to confirm the tuning condition for each Programme Position, If Programme Position is undesired, it possible to skip the Programme Number, refer to the Programme Number skip operation on page 38 to 39.

Fine Tuning Operation



Fine Tuning Operation

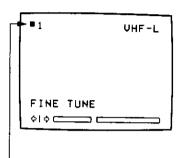
2.



Push and hold the Level Adjust Up "+" or Down "-" Button until picture and sound are improved.

When the above fine tuning operation has been performed, the AFC function is deactivated, so that the "■" symbol appears to the left of the Programme Number.

The on-screen display will be appeared as shown below.



AFC OFF symbol

3.



Return the TV set to the normal operation mode by pushing this button.

Fine Tuning cancel operation

Activating the AFC (Automatic Freguency Control) Function.

If you later want to reset this Programme Number to the automatically tuned condition with activated AFC function.

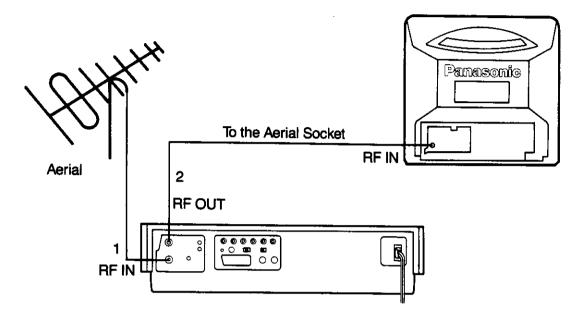
(1) Select the programme position conditioned on the AFC off position.

(2) Operate the Tuning procedure (Manual Search), refer to page 30 to 31.

Tuning the TV set to the VCR

Connection

- 1. Connect the external aerial to the RF Input Socket on the VCR.
- 2. Connect the aerial terminal on the TV set to the RF Output Socket on the VCR with the supplied DIN-DIN Coaxial Cable.



The adjustments described on this page are not necessary, if the VCR is connected to the TV set via the Video/Audio output sockets.

1.

PRE.

(1)(2)

CH_

TUNE

(3)

VHF-L

Push the "PRE." (PRESET) Button on the TV set until the onscreen display appears as shown below.

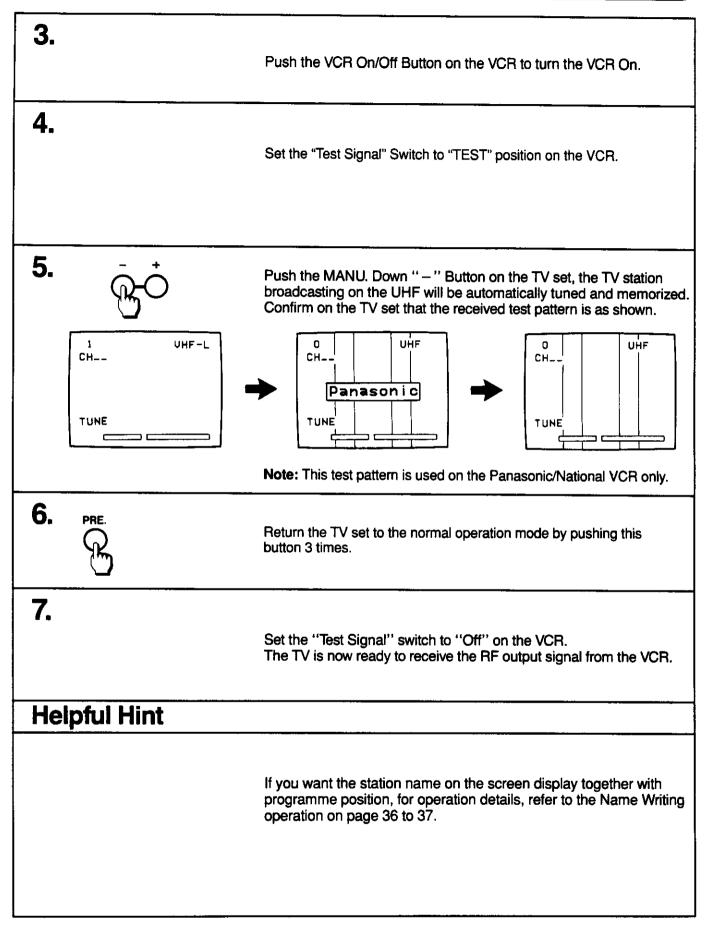
- (1) Programme Position Number
 - (2) Name Write
 - (3) Band
 - (4) Tuning bar

2.

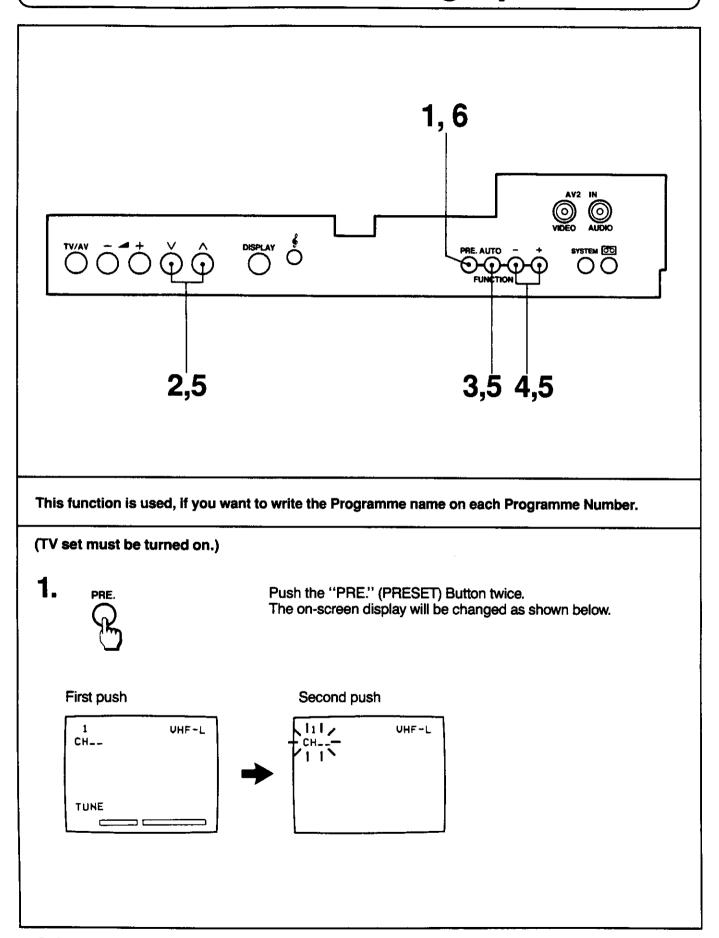


Select the "VCR" position by using "0/VCR" Button on the Remote Controller.

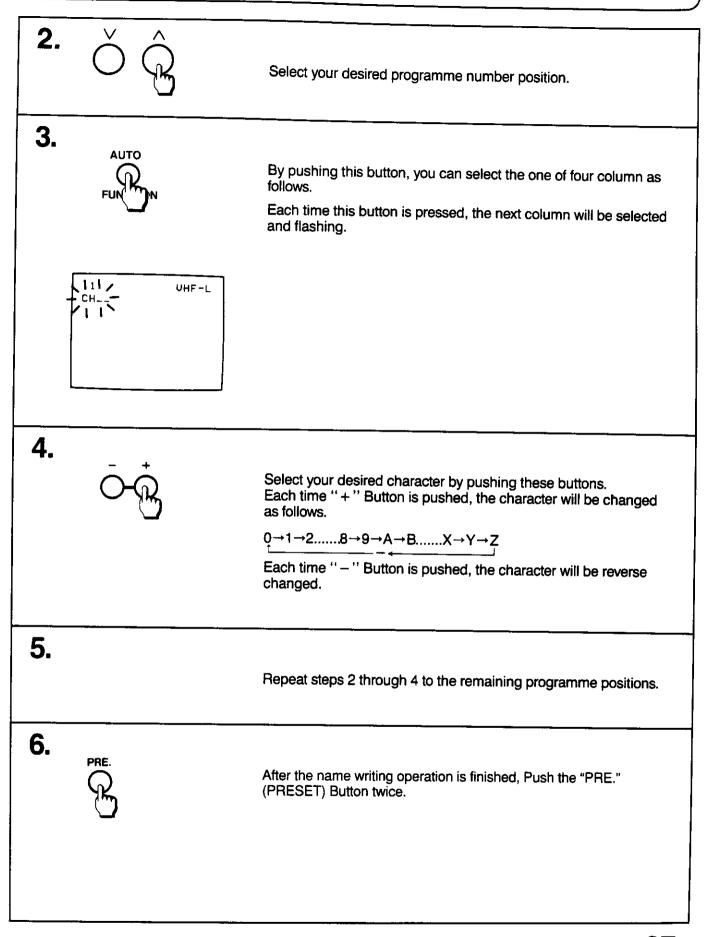
Tuning the TV set to the VCR



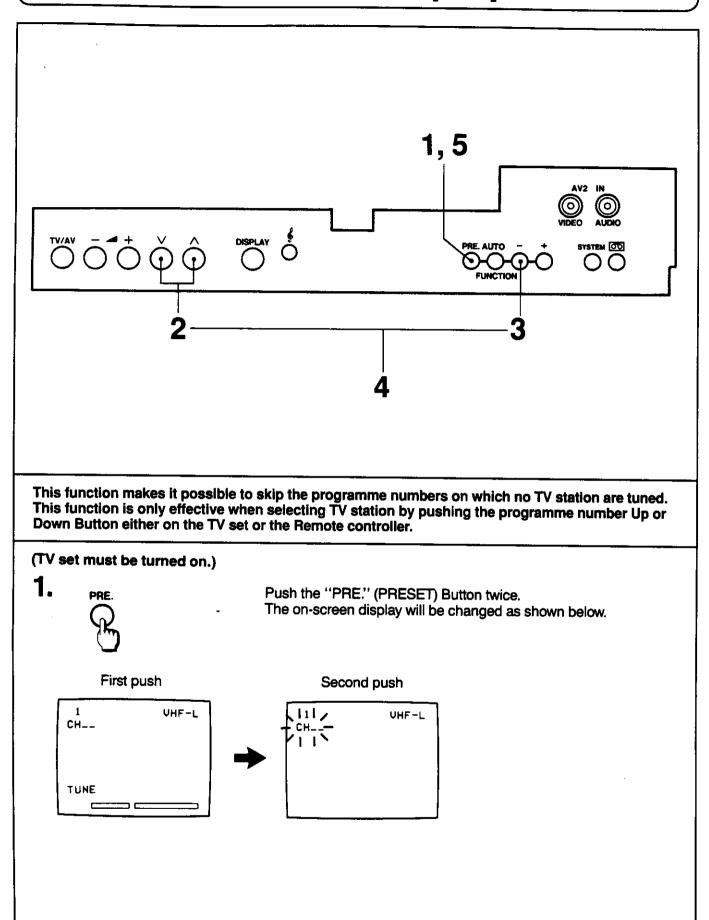
Programme Name Writing Operation



Programme Name Writing Operation



Programme Number Skip Operation



Programme Number Skip Operation

2.



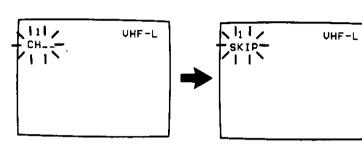
Select a programme number you want to skip.

3.



Push the "-" Button.

The on-screen display will be changed as shown below.



The "SKIP" Indicator will be appeared. Then Skip function is set on a programme position.

4.

Repeat steps 2 and 3 to remaining undesired programme position.

5.



After the skip operation is finished, push the "PRE." (PRESET) Button twice.

How to cancel the skip function.

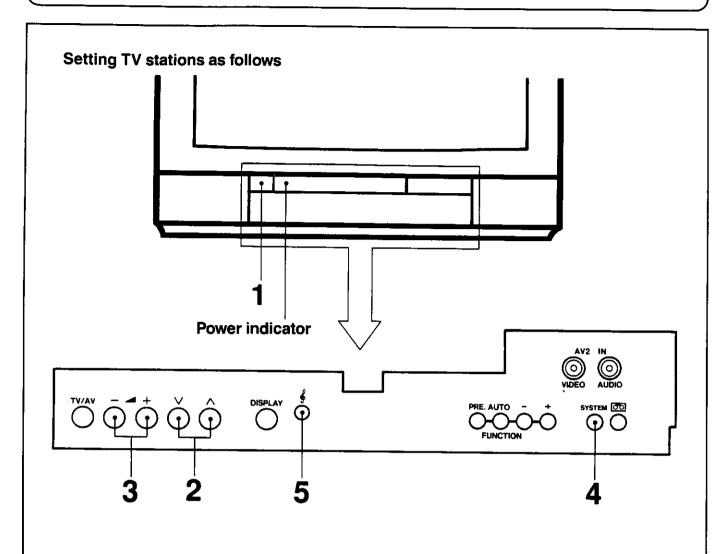
Method:

- 1. Push the "PRE." (PRESET) Button twice. Refer to Step 1 on page 38.
- 2. Select the skipped programme number by using programme number "Up" or "Down" Buttons. Refer to Step 2 on this page.
- 3. Push the "-" Button.

The on-screen indicator will be changed from "SKIP" to "- - - ". Then skip function will be canceled.

- 4. Repeat steps 2 and 3.
- 5. Push the "PRE." (PRESET) Button twice.

Basic Operation on the TV Set



1.

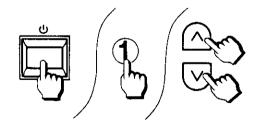


Power on/off operation

= ① Push the "Power Switch" to turn the TV set on.
Power indicator will light up.

If the on-screen display does not appear, then push the Programme Number "Up" or "Down" Button on the TV set.

Push the "Power Switch" again to turn the TV set off.



Note:

In the stand-by condition, it is able to turn the TV set on by pushing the "Power (Stand-by)" Button, digit. "Direct Programme Number Selection" Buttons (0—9) and Programme Number Up and Down Buttons on the remote controller.

Basic Operation on the TV Set

2.



Programme Number Up/Down Operation

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

Push the Programme Number Down "V" Button to select the lower programmes.

3.



Volume Up/Down Operation

The sound level can be adjusted in steps.

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

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

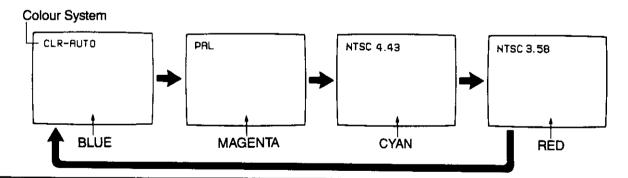
On-screen display will appeared as shown left.

4.



System Select Button

This Button is used only AV mode. Normally, the System Switch is automatically set to the Auto Mode on the AV mode. If the clear picture cannot be obtained even when the AV signal is received, push the "System" Button repeatedly until the optimum image can be produced. The Colour Back will be changed as shown below.



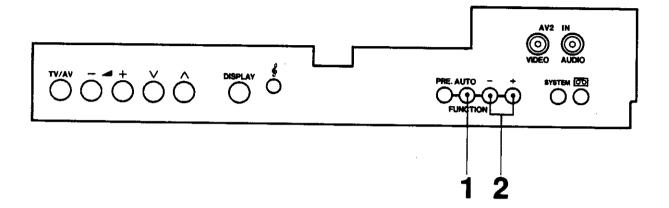
5.



Tone Control

Turn this control to adjust for the desired sound tonal quality of the sound.

Picture Control



Picture have been set according to a factory-preset levels.

You can change these setting according to your desired level.

However you can change only last function menu on before standby enabled. When you want to set the other menu, use the "Picture Menu" Button on the remote controller.

1.

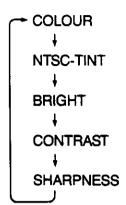


By pushing the "Auto Function" Button, the on-screen display will appear.



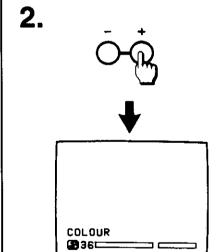
By pushing the "Auto Function" Button sequentially, the onscreen display will be changed as shown left.

Select the desired function.



Note:

NTSC-TINT indicator when the system button on AV mode to select the "NTSC 4.43" or "NTSC 3.58", "NTSC-TINT" indication will be displayed on the screen.



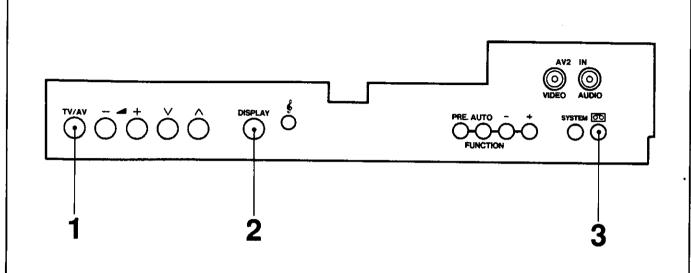
(e.g. Selecting the "COLOUR" function)

By using the Level Adjust Up "+" or Down "-" Button, the on-screen display will be changed the level indicator as shown left.

Push the "+" Button to increase the level of selected function. Push the "-" Button to decrease the level of selected function.

3.

Repeat steps 1 through 2 to the remaining functions.

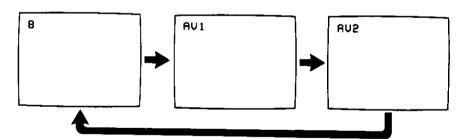


1. TV/AV

AV modes (AV1 and AV2) Select Operation

Push the "TV/AV" Button to select the TV and two AV modes (AV1 and AV2).

By pushing this Button, on-screen will be changed as shown below.

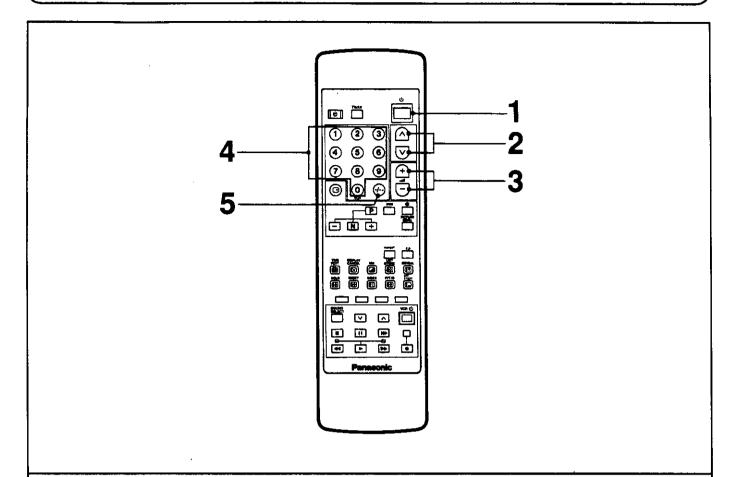


Note:

- (1) When AV mode (AV1 and AV2) is selected and the selected AV mode has no AV signal, the On-screen will be changed from Black out picture to Colour back picture.
- (2) When TV mode is selected, the last programme number on before standby will appear on the screen.

2. DISPLAY **Display Button** Push the "Display" Button, the on-screen display will appear as shown below. Programme Position Number Actual Channel CH12 Note: PAL When this button is pushed, the Colour System Picture menu will change to Picture 2. WHAT A GREAT WAY And each level of Picture 2 will be TO WATCH TU!! WITH changed to the Normal mode. Panasonic For Picture menu details, refer to Picture Operation on page 48 through 49. Push again the "Display" Button, the on-screen display will disappear. 3. **Game Position Button** By pushing the "Game Position" Button, reproduction of irregular signals such as certain TV games and rental video tapes will be This function is effective when the RF IN Terminal is connected. The "Game Position" indicator will be appeared as shown below. 1 00

Basic Operation on the Remote Controller



The Remote Control can only be used when the "Power" Button is in the on condition. (The Power indicator on the TV set light up)

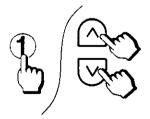
1.



Power (Stand-By) Button

Push this button to turn the TV set on.

Push it again to turn the TV set off.



It is able to turn the TV set on by pushing the digit, "Direct Programme Number Selection" buttons (0-9) and the "Programme Number Up and Down" Buttons.

Note:

Do not leave the TV set in the stand-by condition for a long period of time.

It is better to switch it off when you are away for extended period of time.

Basic Operation on the Remote Controller

2.





Programme Number Up/Down Button

Push the Programme Number Up "A" Button to select the higher programme numbers.

Push the Programme Number Down "V" Button to select the lower programme numbers.

3.





Volume Up/Down Button

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

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

4.



Direct Programme Number Selection Buttons

One digit programme number (Programme numbers 0-9) You can select the numbers 0 to 9 directly.

e.g. Selecting number "7" Push the "7" Button.

5.

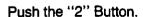


Two digit programme number

(Programme numbers 10-29) e.g. Selecting number "24"

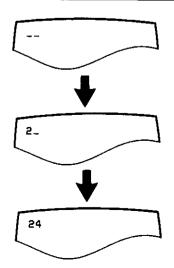
Push the "-/--" Button.
The on-screen will be displayed as follows.



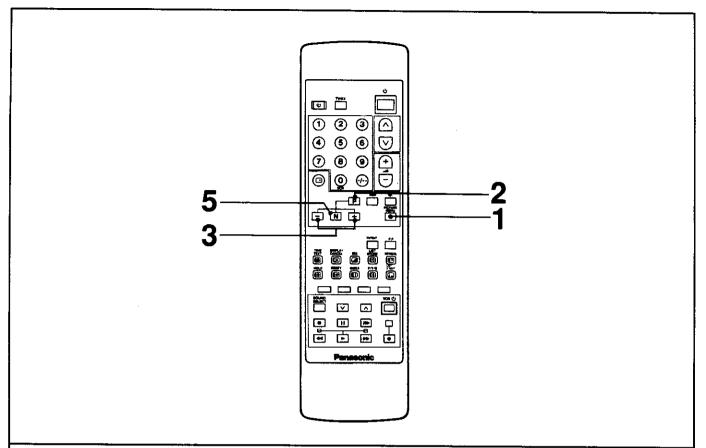




Push the "4" Button.



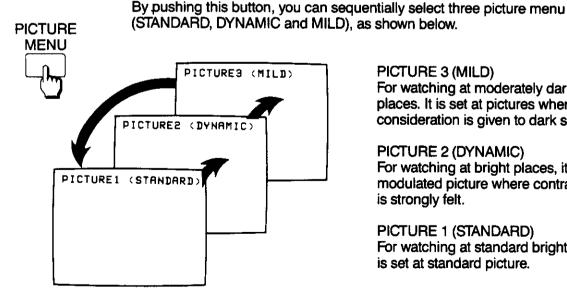
Picture Menu Operation



3 menues can be selected to match the TV with the watching environments and/or the visual softwares.

"COLOUR", "NTSC-TINT", "CONTRAST", "BRIGHTNESS" and "SHARPNESS" are memorized into each menu; letting you tailor the visual effect of your favorite picture. (The level is preset at the factory.)

Menu select operation



PICTURE 3 (MILD) For watching at moderately dark places. It is set at pictures where consideration is given to dark scenes.

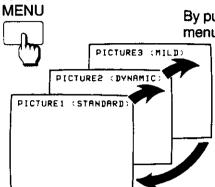
PICTURE 2 (DYNAMIC) For watching at bright places, it is set at modulated picture where contrast effect is strongly felt.

PICTURE 1 (STANDARD) For watching at standard brightness, it is set at standard picture.

Picture menu operation

To Adjust the Picture menu

1. PICTURE



By pushing this button, you can sequentially select three picture menu as shown below.

For each picture menu, the function levels shown below can be adjusted.

2.



PICTURE1 (STANDARD)

S 32 COLOUR

1332 NTSC-TINT

1332 BRIGHT

1340 CONTRAST

132 SHARPNESS

(e.g. Selecting the "PICTURE 1" menu)

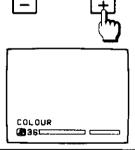
Select your desired function, By pushing the "P" Button sequentially, the on-screen display appears as shown below.

Note:

NTSC-TINT indicator.

When the system button on AV mode to select the "NTSC 4.43" or "NTSC 3.58", NTSC-TINT" indication will be displayed on the screen.

3.



(e.g. Selecting the "COLOUR" function)

By pushing the "+" Button or "-" Button, the on-screen display will be changed the level indicator as shown left.

Push the "+" Button to increase the level of selected function. Push the "-" Button to decrease the level of selected function.

4.

Repeat steps 1 through 3 to the remaining picture menu.

Helpful Hint

5.



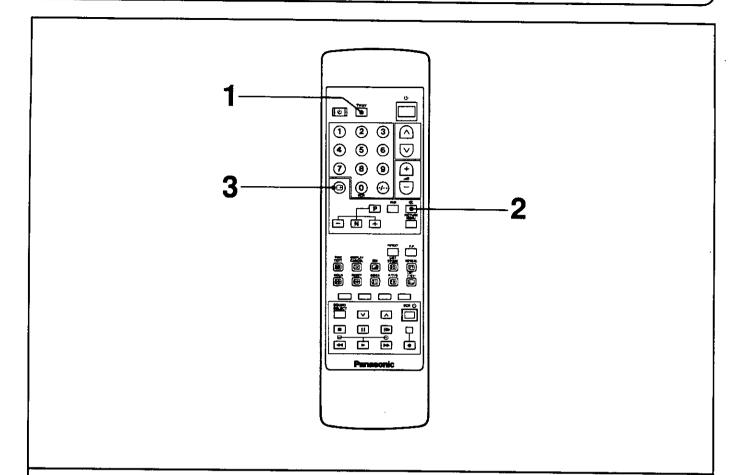
PICTURE1 (STANDARD)

- 332 COLOUR
- THIT-DETM SEED
- \$32 BRIGHT
- ☐ 47 CONTRAST
 ☐ 32 SHARPNESS

NORMAL

By pushing this button, the selected menu will be changed to the Normal mode.

The on-screen will appears as shown below.

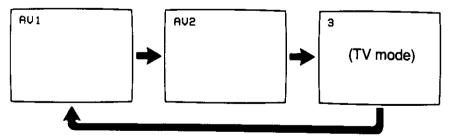


1.



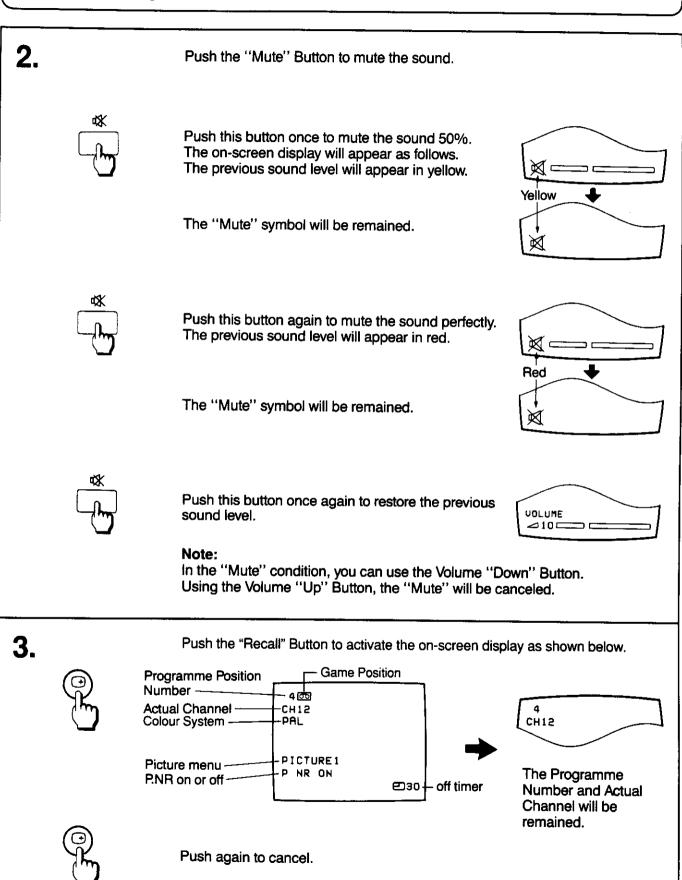
Push the "TV/AV" Button on the Remote Controller. Then last selected AV mode will be displayed on the screen.

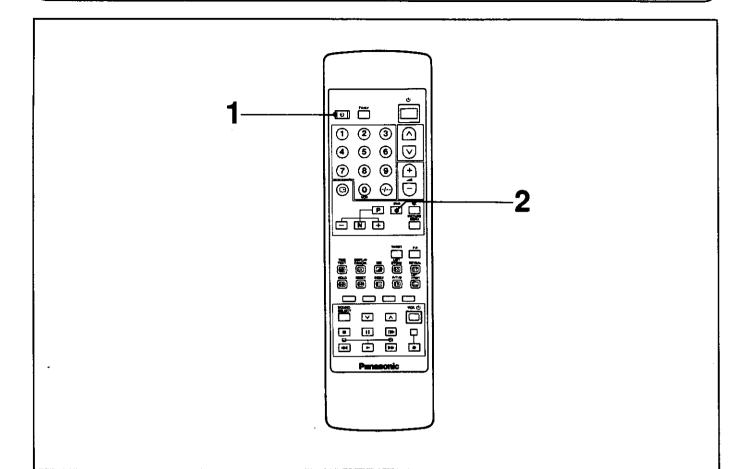
By pushing this button, you can sequentially select TV and two AV modes as shown below.



Note:

When AV mode (AV1 and AV2) is selected and the selected AV mode has no AV signal, the on-screen will be changed from Black out picture to Colour back picture.





1.

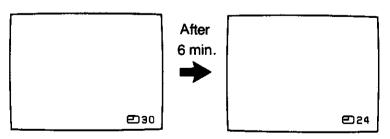


Off Timer Button

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. To set 60 minutes, push this button again, and again for 90 minutes. Pushing this button once more will return the Pre-set time to zero.

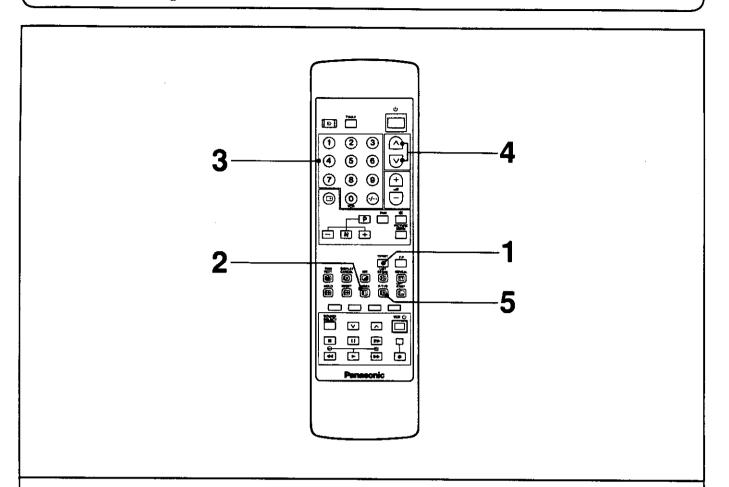
When a time for switch off has been set, the pre-set time will be displayed as follows. (e.g. setting for 30 min)

The on-screen display will disappear automatically. To confirm the rest time, push the "Recall" Button and the rest time is displayed on-screen.



No	te: Pre-set time may be ca	ncelled in the following ways.
		 Set the Pre-set Time condition to "0" using the "Off timer" Button. Turning the TV set off, using the "Power" Button on the Remote Controller or the "Power" Button on the TV set. When it will be 3 minutes before the time for switch off, the display or rest time will begin to flash.
		·
2.	PNR	Picture Noise Reduction Button. The Picture Noise Reduction system is a system designed to effectively reduce the Picture Noise. The on-screen display will be appeared as follows.
	P-NR ON	The Picture Noise Reduction is ON condition. The Picture Noise will be soft.
	P-NR OFF	The Picture Noise Reduction is OFF condition. The Picture Noise will be sharp. On the channel of the weak broadcasting signal or no signal, the onscreen will be Blue back picture and the noise will be muted automatically.
		Note: When you want to watch the weak broadcasting in spite of the disturbance, turn the Picture Noise Reduction to ON condition. Then the TV will be able to receive the weak broadcasting.

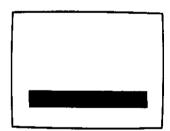
Basic Operation of Teletext



A black bar briefly appears to indicate Teletext availability, when a channel with Teletext is selected. If the station broadcasting Teletext has its own title transmitted in the Teletext signal for inclusion in this position, then this title will appear inside the black bar.

For example:





1.



TV/TEXT Selection Button

Push this button to select the "TEXT" mode.

TV/TEXT

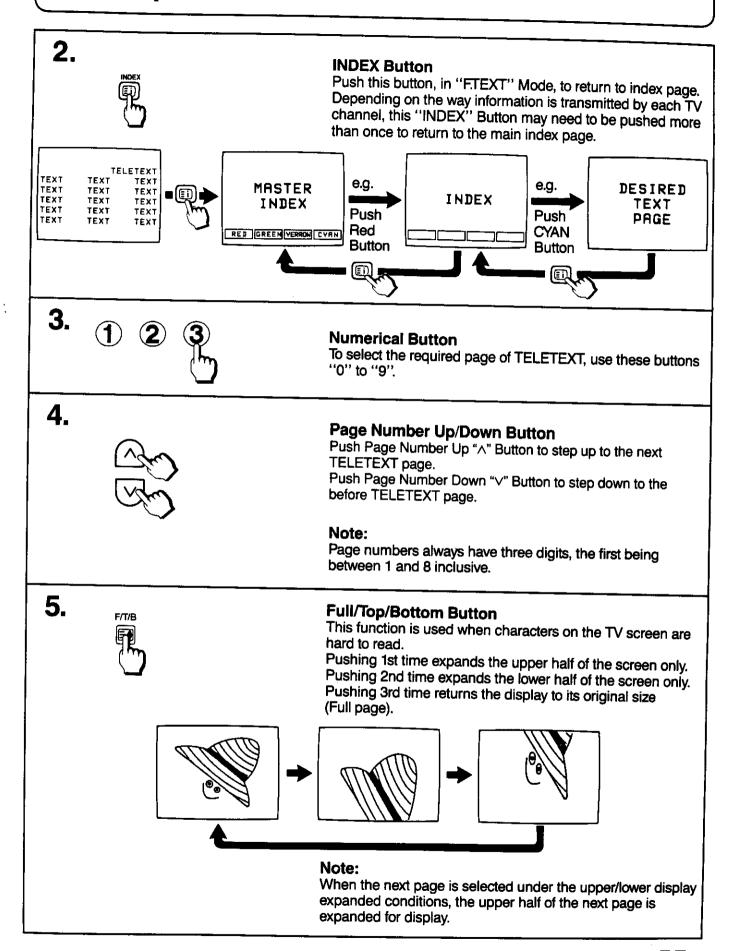
Back to the TV mode.

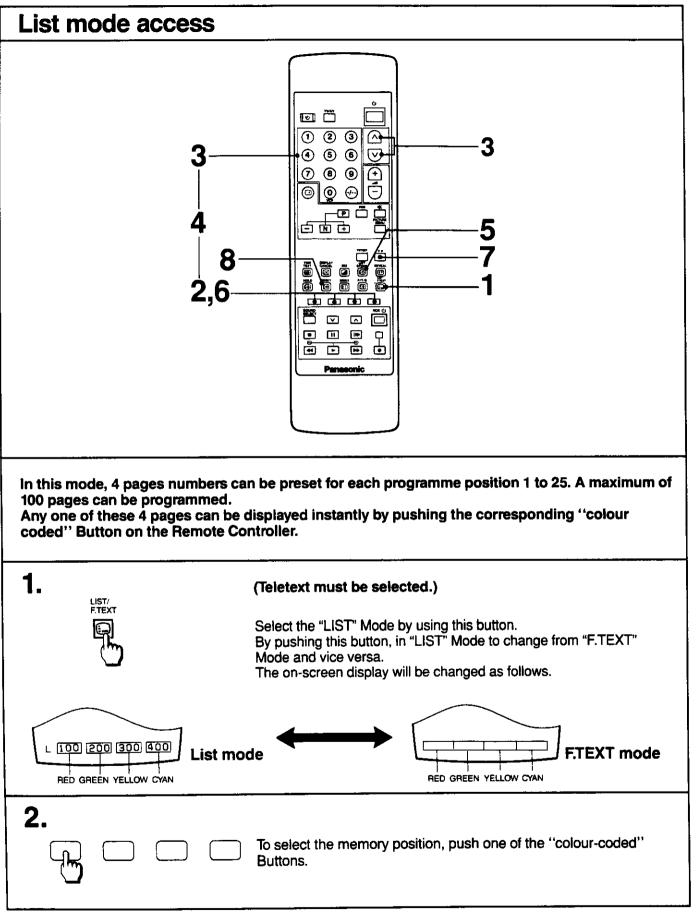
Push the "TV/TEXT Selection" Button.

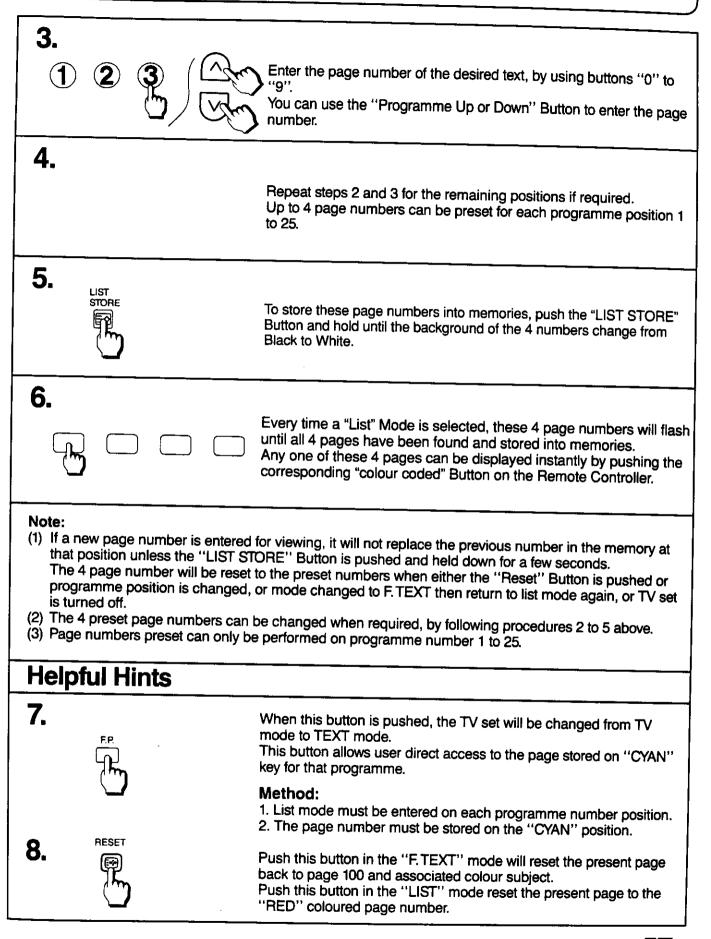
Note:

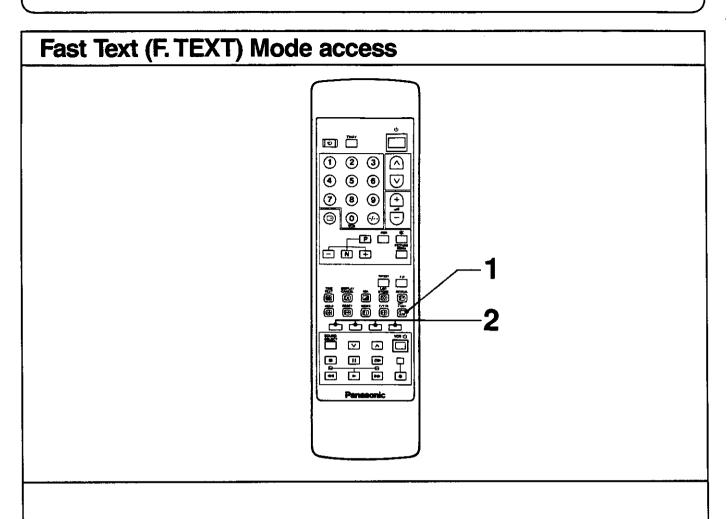
The first time that TELETEXT is selected after the TV is switched ON, the first page displayed is that stored in the red position in LIST mode.

Basic Operation of Teletext

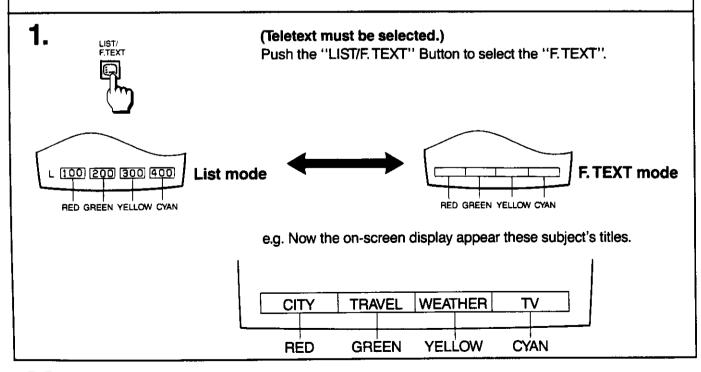




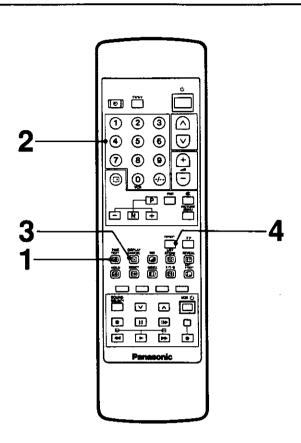




In "F. TEXT" mode, select the desired teletext information by pushing one of the "colour-coded" Buttons on the remote controller which corresponds with the coloured subject's title on the screen.



2.	e.g
	Push "Yellow" Button on remote controller to view a "Weather" page.
3.	Follow similar procedure to access other pages of teletext.
Note:	Subject's titles and their sequence for access are set-up by TV broadcast channels, they are not user's definable with the Remote Controller. It is a convenient way of accessing some Teletext pages without the need to enter page numbers.



Text Sub page access

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.

٦.

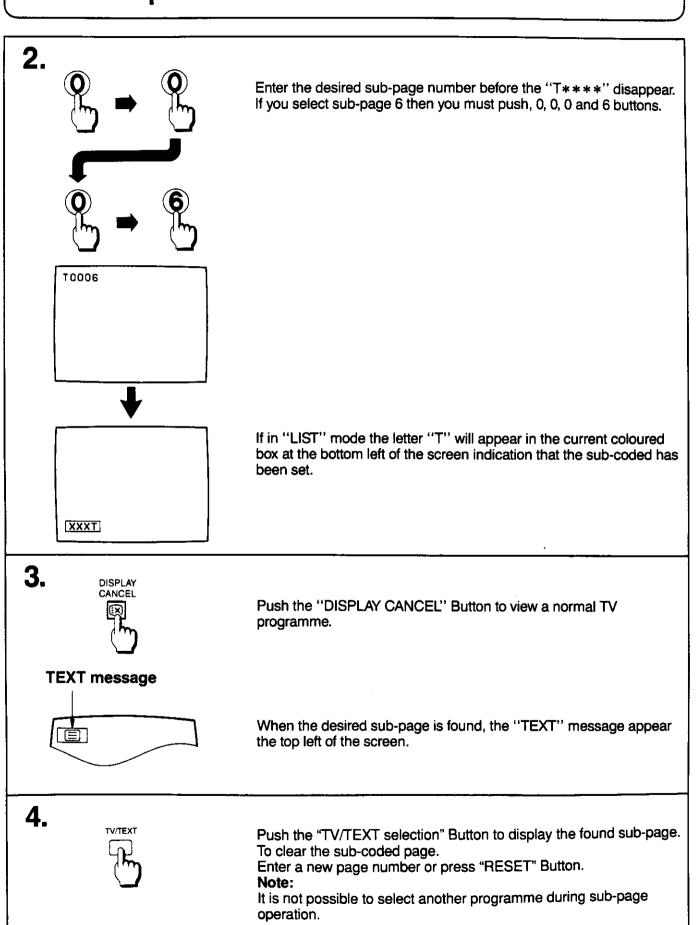


Required Teletext page must be selected.

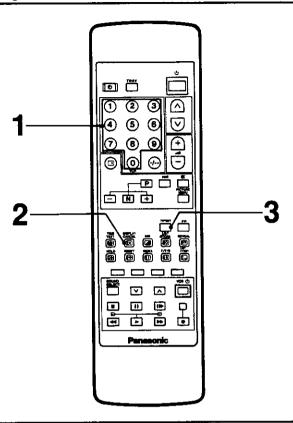
Push the "TIME TEXT" Button.

T****

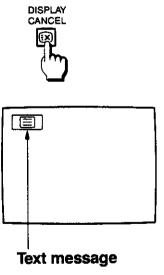
At that time, "T****" will be displayed at the top left of the screen.



Display Cancel Operation



(Teletext must be selected.)



While a selected page is being searched for, TV picture can be viewed by pushing this button.

When that page is found, the "TEXT" message will be displayed at the top left corner of the screen.

Then push the "TV/TEXT Selection" Button.

Method (To watch a newsflash page)

1.



In text mode, select a newsflash page. e.g. Page No. 155







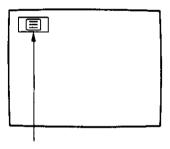


2.



Push the "Display Cancel" Button.

The TV switches from the Text page screen to TV picture. Every time an update newsflash information is available, the newsflash information will be displayed at the bottom of the screen. When that page is found, a message will be displayed at the Top left corner of the screen.

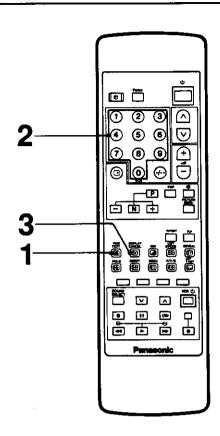


TEXT message

3.



Push the "TV/TEXT Selection" Button twice.



Text ALARM Page access



This function is used for selected pages only. e.g. The Teletext ALARM page. Refer to the subject index page for page location.

Method

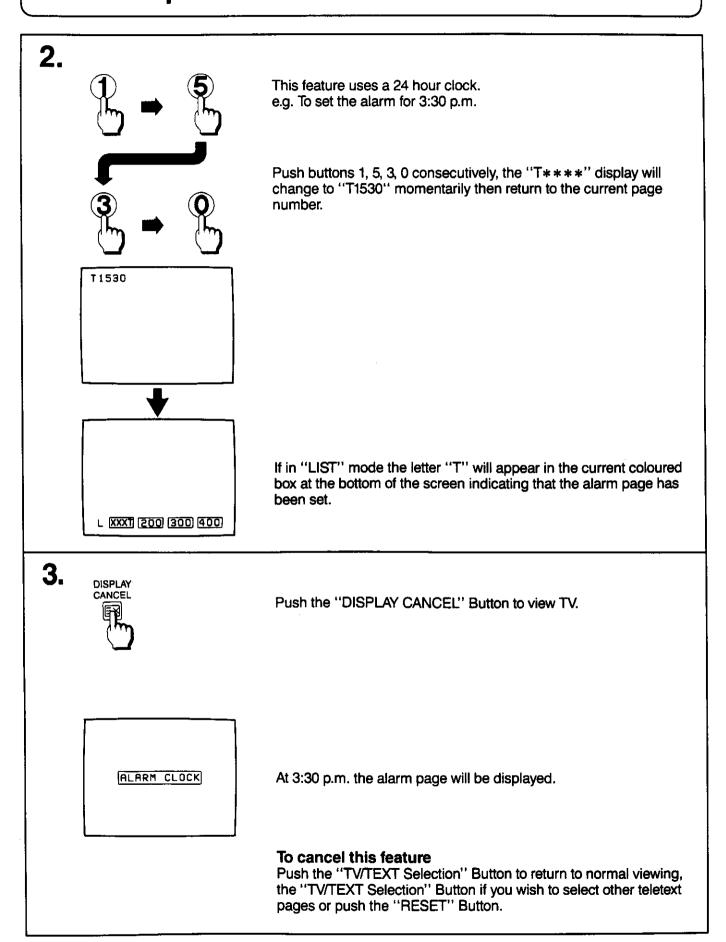
1.

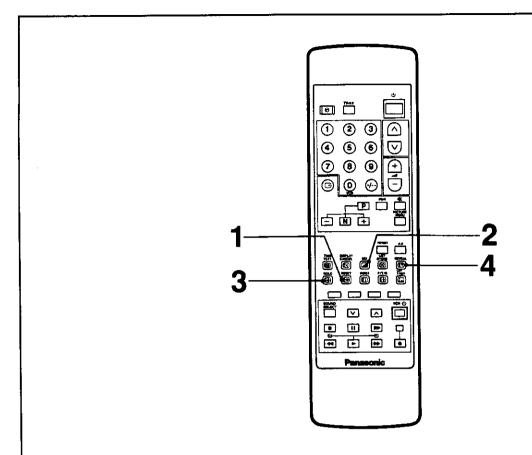


Text ALARM Page must be selected. Push the "TIME TEXT" Button.



At that time, "T****" will be displayed at the top left of the screen; now enter the time at which this alarm page should be displayed using buttons 0 to 9 on the remote control.





These functions can be used in all 2 types Teletext systems

1.



Reset Button

Push this button in the "F.TEXT" mode will reset the present page back to page 100 and associated colour subject. Push this button in the "LIST" mode reset the present page to the

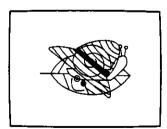
Push this button in the "LIST" mode reset the present page to the "RED" coloured page number.

2.



Mix Button

Push this button, the Teletext page appears over the TV programme.

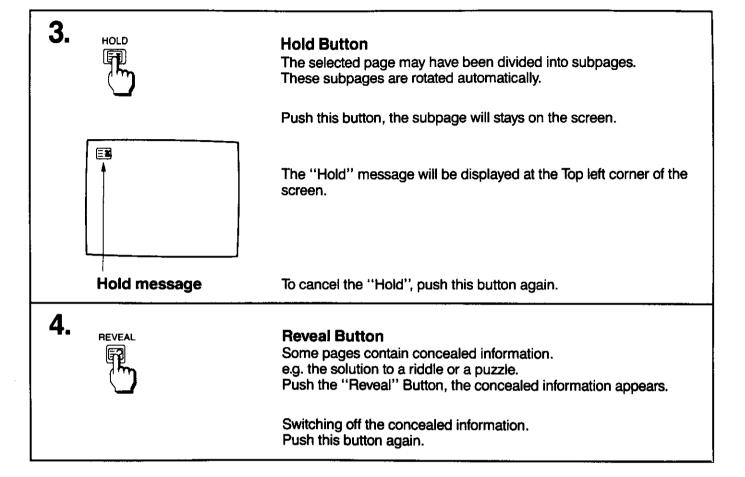


TV/TEXT



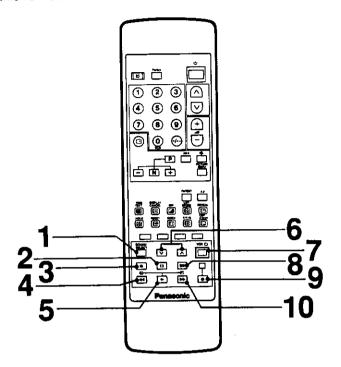
Back to the TV mode.

Push the "TV/TEXT Selection" Button.



Operation for VCR

This infrared remote control is designed specifically to be used with selected Panasonic/National VCRs. Some model VCRs have different functions, so please refer to the individual instruction booklet to ensure compatibility when using this remote control with Panasonic/National VCRs, consult your dealer for details.



1. sol



Sound select Button for VCR

You can select the Sound mode (Stereo or Bilingual), by pushing this button.

Sound select operation details, refer to operating instructions of the VCR.

2.



Pause/Still Button

Push to stop the tape temporarily during playback. A still-picture will be shown.

3.



Stop Button

Push this button to stop the tape.

4.



Rew (Rewind)/Review Button

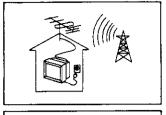
Push this button to rewind the tape.

During the playback mode, holding this button down will allow you to view the picture in reverse rapidly. (Review)

Operation for VCR

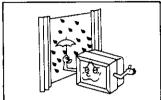
5. **Play Button** Push this button to playback the tape. 6. Programme Number Up and Down Buttons for VCR Push the Programme Number "Up" or "Down" Button to select a programme position which you want to tune to a TV station. 7. **VCR Power Button** Push this button to turn the VCR on. Push again to turn off. 8. Still Advance Button While in the still mode, push this button to advance the picture one frame at a time. 9. Rec (Record) Buttons Recording is started by pushing these 2 buttons at the same time. 10. FF (Fast Forward)/Cue Button Push this button to fast forward the tape. During the playback mode, holding this button down will allow you to view the picture in the forward direction rapidly. (Cue)

Warnings and Cautions



Power Source and TV System

This TV set can be operated on AC 230V, 50 Hz. It is designed exclusively for broadcast systems PAL B.G.

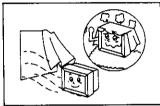


To prevent damage which may result in fire or electrical shock hazard, do not expose the TV set to rain or excessive moisture.

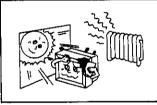


High Voltage:

Do not remove the rear cover as live parts are accessible when it rear cover is removed.



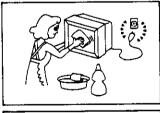
Adequate ventilation is essential to prevent failure of electrical components.



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

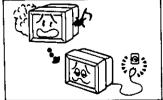


Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.



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, remove the plug from the wall outlet.



Do not used this set if abnormal operation occurs.

Ex: Smoke, odd sounds, or smells Turn the power switch off and disconnect the AC plug, if you notice any unusual operation.

Troubleshooting

Before you call 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 or Connections				
Multiple Image	Normal Sound	Aerial Location, direction or Connections				
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 pushing the Power Switch or Stand-by Button on the Remote Control.)				
No Colour	Normal Sound	Colour Control				
Scrambled	Normal or Weak Sound	Retune Channels				
Coloured Patches	Normal Sound	Magnetic interference from unshielded equipment Receiver moved while "ON" (Power switch off for 10 mins.)				
No Colour Rolling Picture H-Line	Noisy Sound	System Button				

Specifications

Power Source

TX-21T4M AC 220-240V, 50Hz TX-21T4Z AC 230V, 50Hz

Power Consumption

TX-21T4M 130W TX-21T4Z 130W

Stand-by condition 9W

Stand-by condition 9W

Receiving System

4 Sy	stems	Function
1	PAL B, G	Reception of broadcasts and Playback from Video Tape Recorders
2	NTSC 4.43/5.5MHz NTSC 3.58/5.5MHz	Playback from Special Video Tape Recorders
4	PAL 60 Hz	

Receiving Channels

Regular TV VI

VHF BAND 2-12 (SINGAPORE)

1-11 (NEW ZEALAND)

UHF BAND 21-69

Specifications

Tuning System

Voltage synthesized

Picture Tube

Type 21 (54 cm) Overall Picture tube measured diagonally (51 cm) Viewable Picture tube measured diagonally 90° deflection

Audio Output

Internal Speaker 2.5W (10% distortion), 3W (Max.)

Aerial Impedance

75Ω Unbalanced coaxial

Video/Audio Terminals

AV1	S-Video In	Y: 1.0 Vp-p, 75Ω C: 0.3 Vp-p, 75Ω 1 Vp-p, 75Ω		
	Video In			
	Audio In	Approx. 400mV		
AV2	Video In	1 Vp-p, 75Ω		
	Audio In	Approx. 400mV		
Monitor Out	Video Out	1 Vp-p, 75Ω		
	Audio Out	Approx. 400mV		

Accessories Supplied

Remote controller \times 1 R6 Battery \times 2

Dimensions (W \times D \times H)

 $510 \text{ mm} \times 487 \text{ mm} \times 475 \text{ mm}$

Mass (Weight)

22.5 kg (Net)

Note:

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

. .

.

,

.

•	٠.		_	~	_	r's		^	^	ml
1		181				- 50	-	- (-		ıu

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 TX-21T4M / TX-21T4Z

Serial Number