

TX-21/14S3TL Operating Instruction



Panasonic



TX-21S3TL

TX-14S3TL

CATS
Contrast Auto Tracking System



Please read these instructions completely before use and retain them for future reference.

Dear Panasonic Customer,

Welcome to the Panasonic family of customers. We hope that you have many years of enjoyment from your new colour television. The best way to understand the features of this television is to read this book thoroughly, before operating the set.



This television has a low power consumption making it very cost effective to run. To this end, the standby power consumption is merely 1 watt.

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WARNINGS AND PRECAUTIONS

- This T.V. is designed to operate on A.C. 220 – 240V, 50Hz and is capable of receiving the PAL I transmission standard.
- Do not expose this TV set to rain or excessive moisture.
- **WARNING: HIGH VOLTAGE !**
Do not remove the rear cover, there are no user serviceable parts inside.
- Avoid exposing the TV set to direct sunlight or other sources of heat.
- Remove the mains plug from the wall socket when the TV set is not to be used for a prolonged period of time. Do not pull the power cable to remove the mains plug from the socket, always remove it by the plug.
- **CABINET AND PICTURE TUBE CARE**
Remove the mains plug from the wall socket. The cabinet and picture tube can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum. TV sets can produce static electricity, care must be taken whenever touching the TV screen.
- Adequate ventilation is essential to prevent failure of electrical components. We recommend that a gap of at least 5cm is left all around this TV even when it is placed inside a cabinet or between shelves.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING CAREFULLY

This appliance is supplied with a fitted three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. If the fuse is replaced then the replacement fuse must be 5 amp rated and should be approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the fitted plug has a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

Replacement fuse covers can be purchased through your local Panasonic dealer.

The plug fitted to this appliance incorporates a mains filter circuit. If this is removed or replaced with a non-filtered mains plug this television will no longer meet the European standards for Electromagnetic Compatibility (EMC). If the fitted plug is unsuitable for the socket outlet in your home an appropriate adapter should be used.

Nonetheless, if the fitted plug is replaced, the fuse should be taken out and the cut-off plug disposed of safely. There is danger of severe electrical shock if the cut off plug is inserted into any 13amp socket.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

How to replace the fuse :

Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug.


IMPORTANT :- The wires in the mains lead of this appliance are coloured in accordance with the following code :-

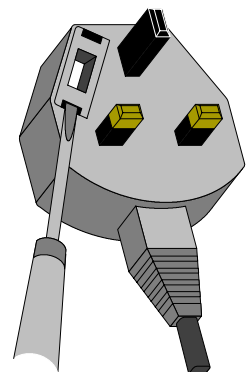
BLUE : NEUTRAL

BROWN : LIVE

As the colours of the wires in the mains lead of this appliance may not correspond to the markings identifying the terminals in your plug, proceed as follows :-

1. The **BLUE** wire must be connected to the terminal marked 'N' or coloured black.
2. The **BROWN** wire must be connected to the terminal marked 'L' or coloured red.

IMPORTANT NOTE: Under no circumstances should either of these wires be connected to the Earth terminal of the three pin plug, marked with the letter 'E' or the earth symbol ().



Important Note :
The layout of the mains plug used may differ from this illustration.

ACCESSORIES

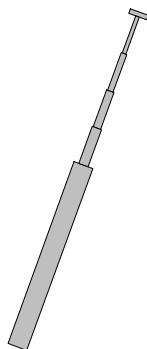
Check that you have the accessories and items shown



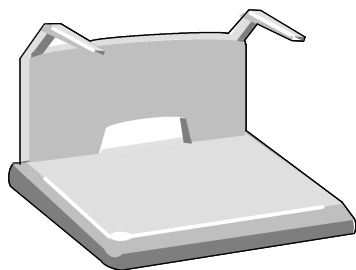
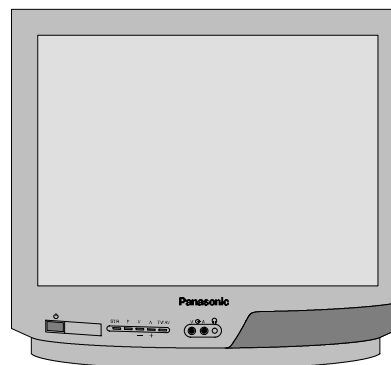
Operating Instruction book



TV Guarantee



Telescopic Aerial
(TX-14S3TL only)
TSA-120026



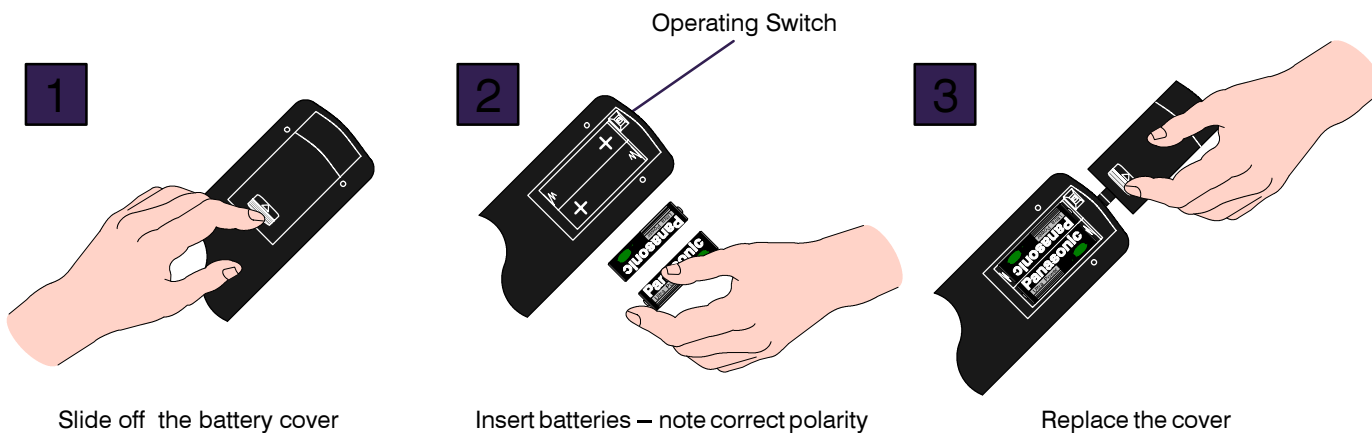
T.V. Stand
(TX-21S3TL only)
TS-2800S

Remote Control Transmitter
TNQ8E0461-2



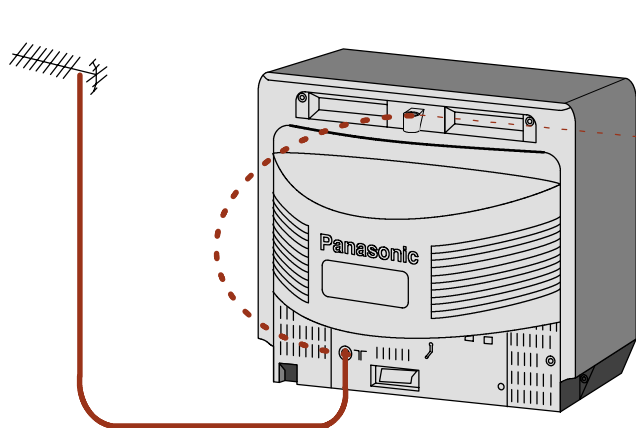
Batteries for the
Remote Control Transmitter.
(2 x R6 (UM3) size)

FITTING REMOTE CONTROL BATTERIES



- Make sure that the batteries are fitted the correct way round.
- Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.
- Do not mix different battery types, i.e. Alkaline and Manganese. Do not use rechargeable (Ni-Cad) batteries.

INSTALLATION AND SET-UP



1

TV only

Connect Aerial co-axial cable direct to TV RF IN socket.

* TX-14S3TL only: If required, insert the telescopic aerial into the case socket and connect the cable to the TV RF IN socket.

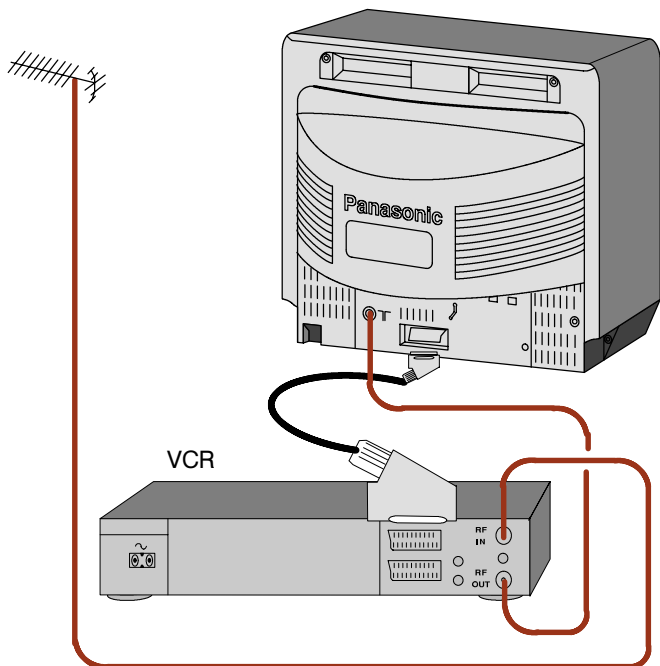
Once inserted, the aerial cannot be removed.

OR

USING A VCR

Connect aerial co-axial cable to RF Input socket of VCR and a RF co-axial cable from VCR RF Out socket to TV RF IN socket.

The VCR can also be connected to the TV using a SCART to SCART lead.



Further details of Audio/ Video connections can be found on page 11.

OR

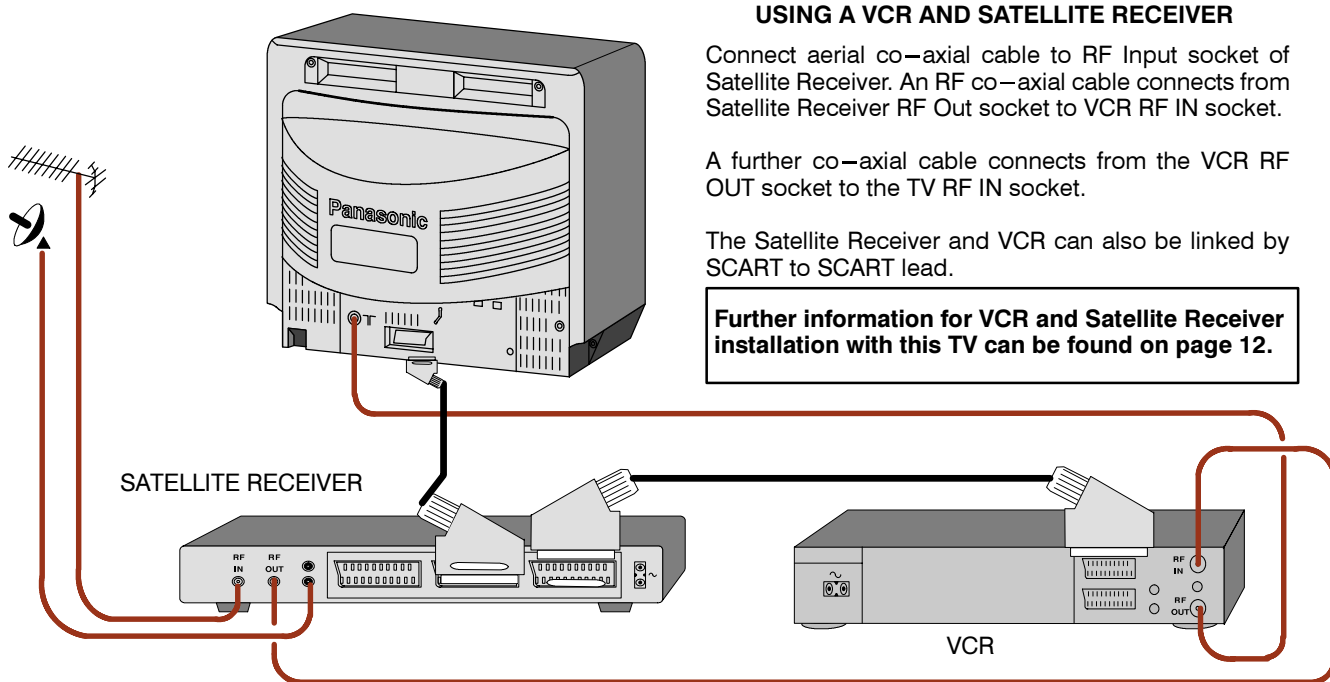
USING A VCR AND SATELLITE RECEIVER

Connect aerial co-axial cable to RF Input socket of Satellite Receiver. An RF co-axial cable connects from Satellite Receiver RF Out socket to VCR RF IN socket.

A further co-axial cable connects from the VCR RF OUT socket to the TV RF IN socket.

The Satellite Receiver and VCR can also be linked by SCART to SCART lead.

Further information for VCR and Satellite Receiver installation with this TV can be found on page 12.

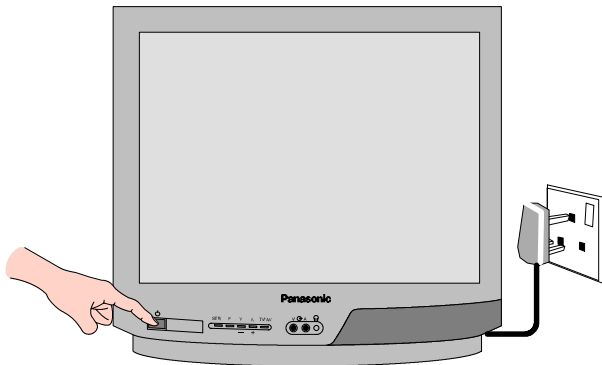


Ancillary equipment and leads are not supplied.

INSTALLATION AND SET-UP

2

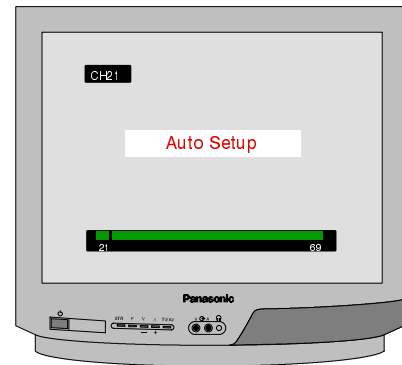
Switch ON your VCR. *1
Switch ON your Satellite Receiver.*2
Plug the TV into a mains socket and switch ON.
Programmes will appear immediately if your dealer has programmed the TV for you.



3

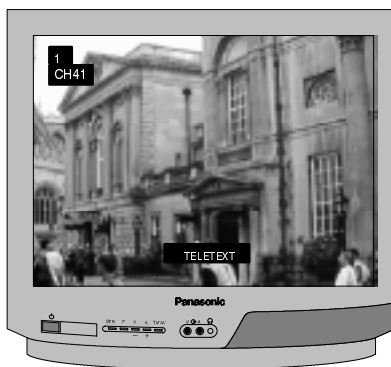
If the TV has not been programmed for you then **Auto setup** will begin. TV stations will be located and stored ready for use. *3

Switch the VCR Test Signal 'off'. *4



4

The first available channel will be displayed.



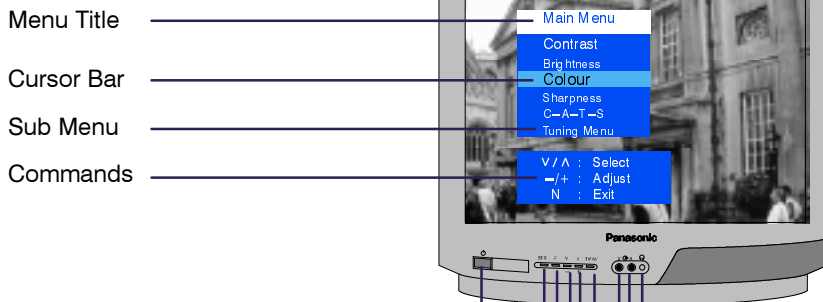
Volume adjust

Programme change

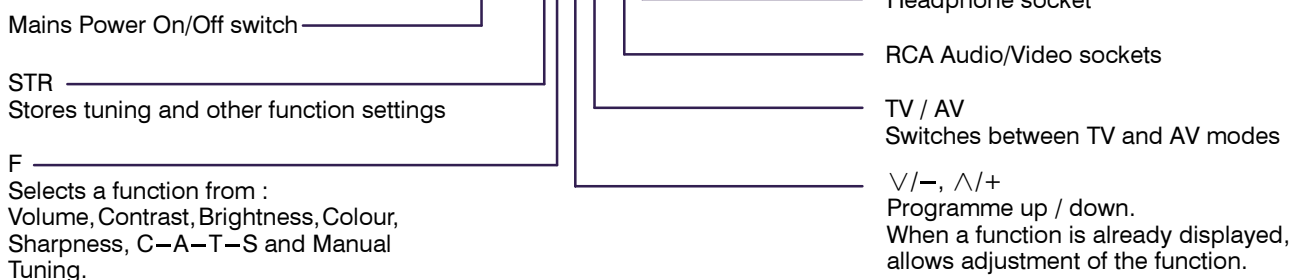
- *1. We recommend that you switch ON the VCR's test signal – refer to your VCR instruction book.
- *2. We recommend that your Satellite Receiver is set to either SKY ONE or SKY NEWS to ensure reliable tuning.
- *3. If the order in which the stations are stored is not to your preference it can be rearranged. Refer to the Tuning menu Swap feature – see page 9 for details.
- *4. **IT IS IMPORTANT** that you only use TV programme position '0' to view your VCR. If your VCR picture does not appear on programme position '0' (the VCR position), refer to page 12 for guidance.

LOCATION OF CONTROLS

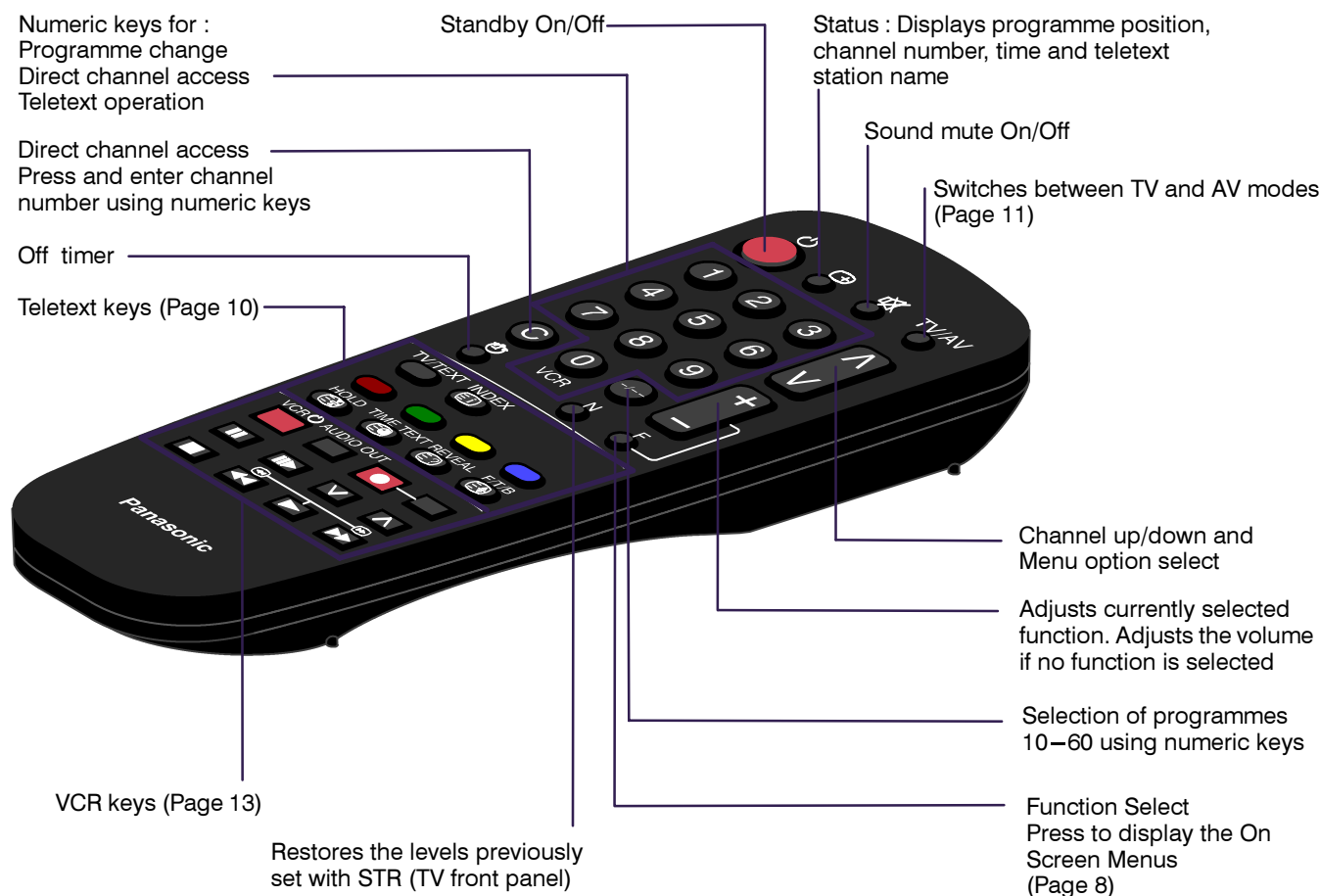
On Screen Displays



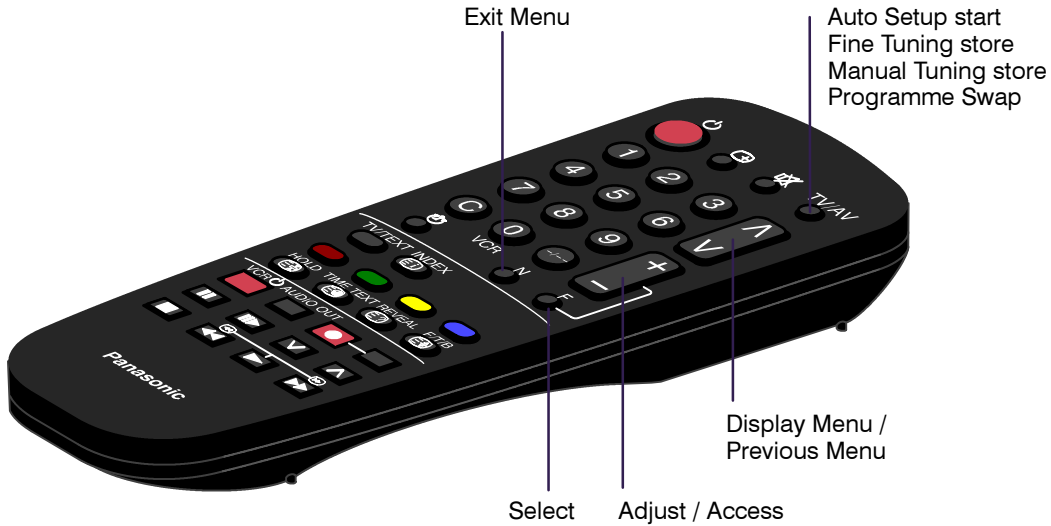
Front Panel Controls



Remote Control keys



MENU OPERATION



Main Menu

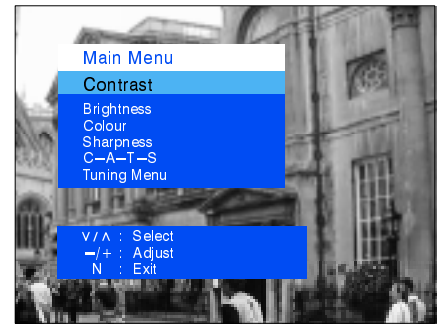
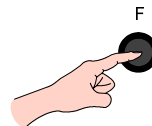
Contrast

Brightness

Colour

Sharpness

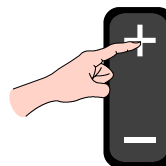
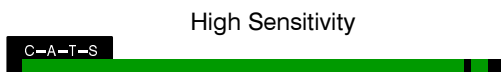
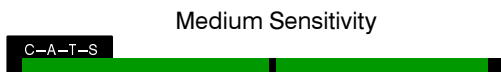
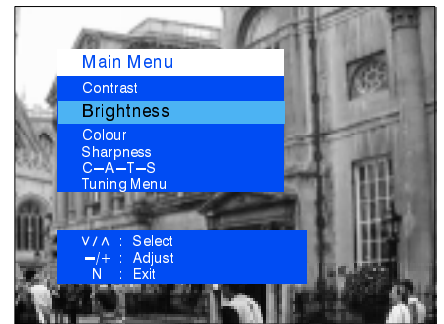
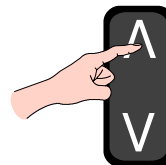
The Contrast, Brightness, Colour and Sharpness may be altered to suit the viewing conditions and personal preferences.



C-A-T-S : Contrast Auto Tracking System

Automatically adjusts the contrast setting to compensate for any changes in the ambient lighting of the surroundings.

To obtain best results first set the Contrast to maximum, to allow a greater operating range for C-A-T-S, then select one of the 3 settings as desired.



MENU OPERATION

Tuning Menu

The Tuning menu provides access to both manual and automatic tuning menus.

Auto Setup

The Auto Setup menu allows you to automatically retune the TV, particularly useful if you move to an area that is served by a different transmitter.

Manual Tuning

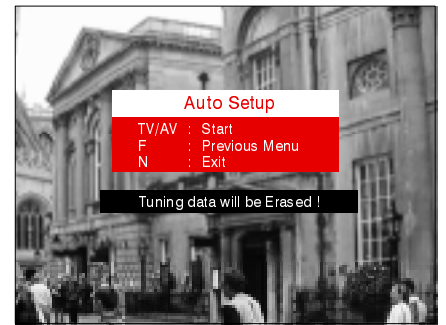
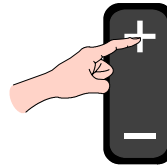
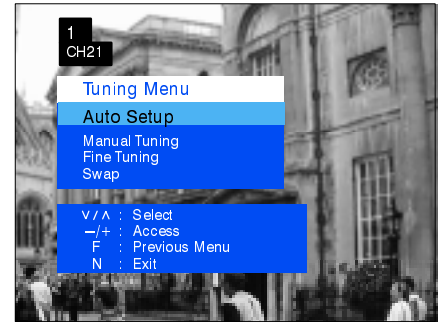
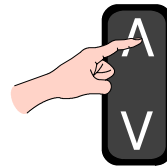
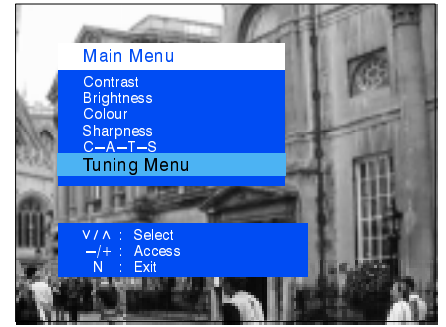
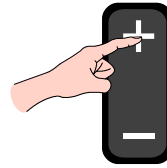
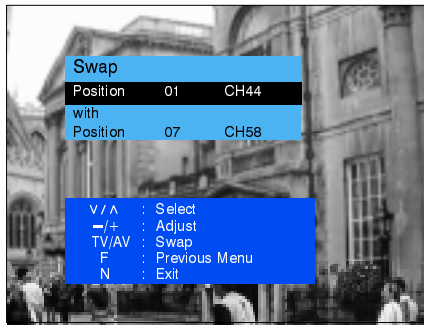
The Manual tuning menu allows individual programme positions to be tuned manually.

Fine Tuning

Stations can be finely tuned using the Fine Tuning adjustment.

Swap

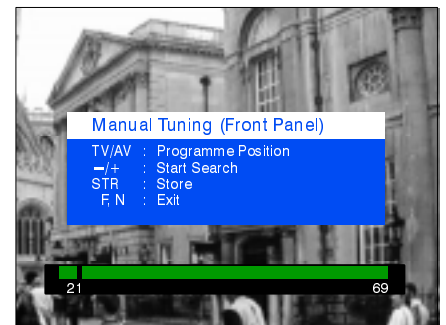
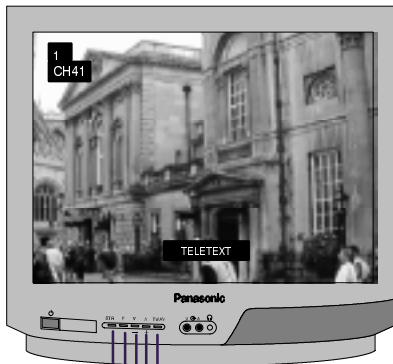
If the programme order after Auto Setup is not to your preference you can swap programmes between positions.



Manual Tuning (front panel of the television)

The stations may also be manually tuned using the controls on the front of the television.

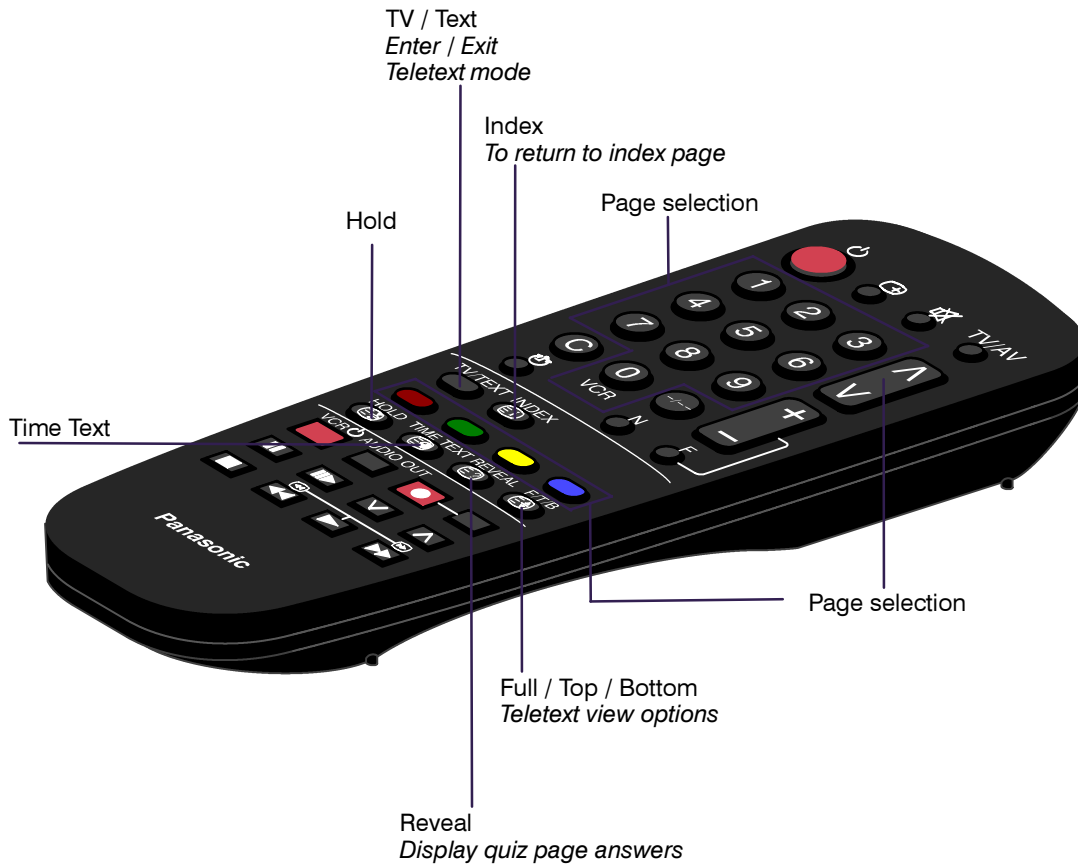
Press the F key (Front panel) until "Manual Tuning" is reached. Press - or + to access "Manual Tuning".



TELETEXT OPERATION

Teletext is the broadcasting of pages of information on your T.V. screen containing various subjects, the order and availability of which is dependant upon the Broadcasting Companies.

If the Function Select key (F) is pressed whilst in Teletext operation, only the Contrast can be adjusted.



FASTEXT / Normal Automatic Selection

On switching to Teletext, normal mode will be displayed whilst a search is performed for FASTEXT transmissions, if one is found, the boxes at the bottom of the screen will change to show the available subjects.

If a FASTEXT signal is not found then the TV will operate in Normal mode whereby the :

- Red key moves one page down.
- Green key moves one page up.
- Yellow key moves up in blocks of ten pages.
- Blue key moves up in blocks of 100 pages.

Index

In FASTEXT mode, returns to the relevant index page. Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.

Red / Green / Yellow / Blue keys

Correspond to the FASTEXT or Normal mode coloured boxes.

Sub Page Access (Time Text key)

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 the required sub page and skip the pages in between.

Select the required page number using keys 0 – 9.

Press **TIME TEXT**.

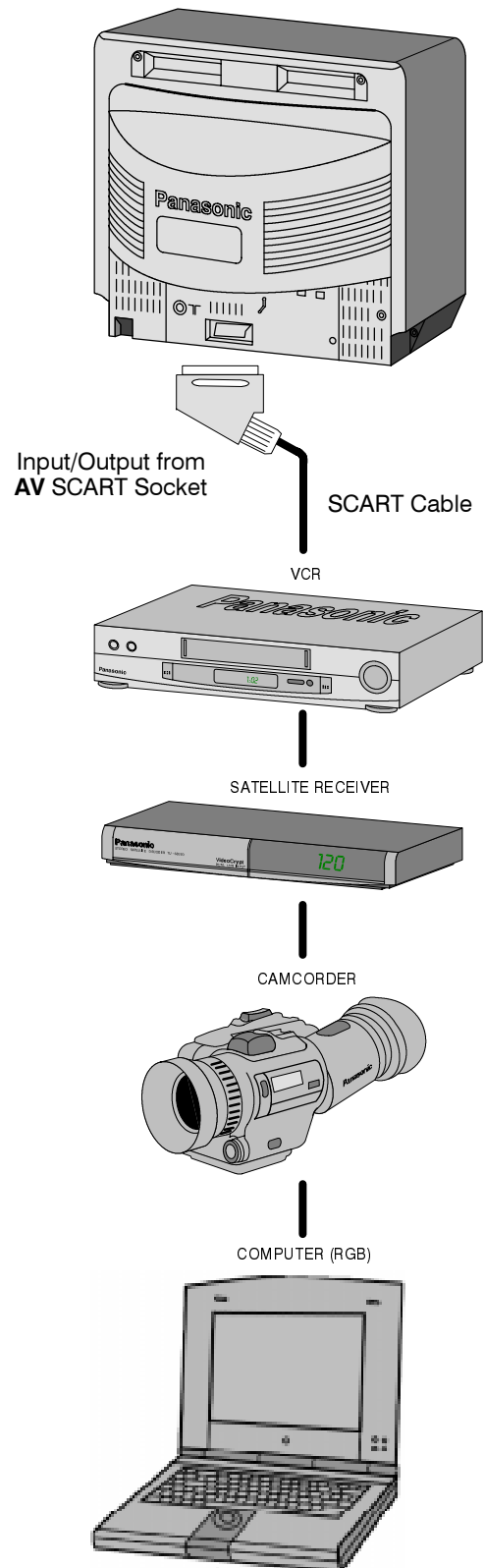
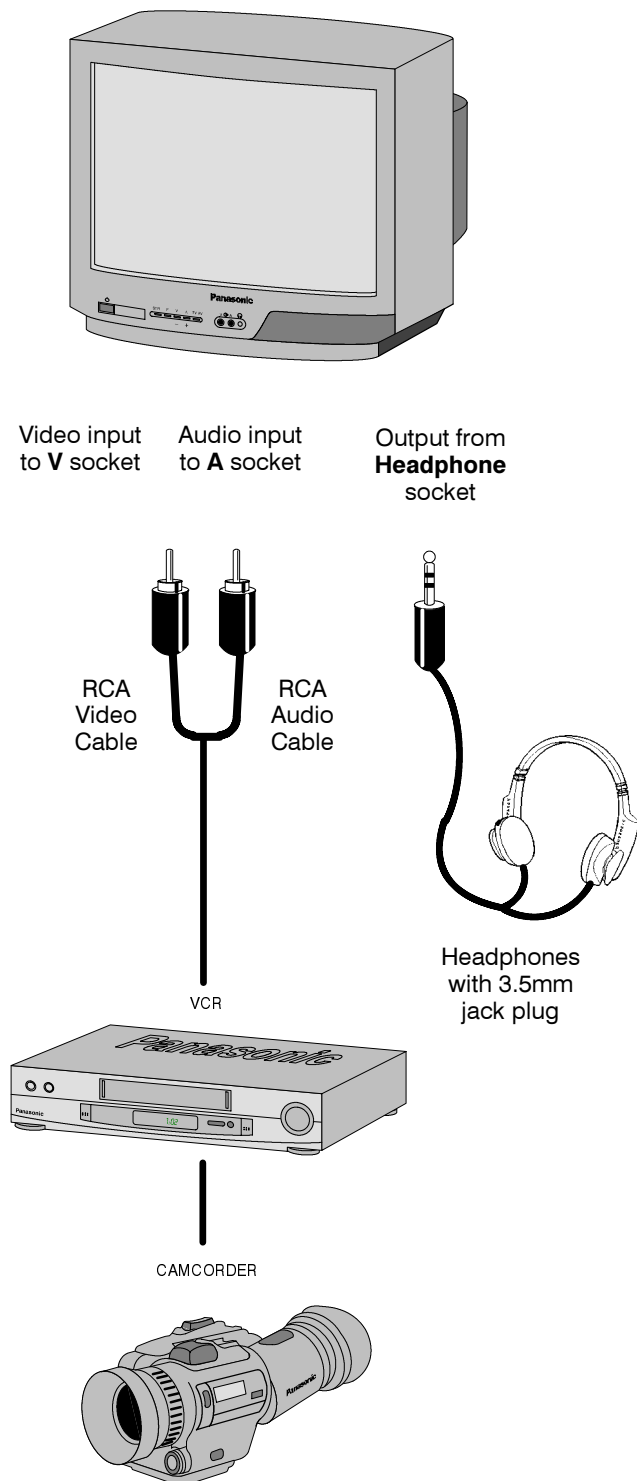
Press **RED (-)** or **GREEN (+)** to select the required sub page.

When the page is found, it will be displayed.

Press **TV/TEXT** to exit Teletext operation.

AUDIO / VIDEO CONNECTIONS (FRONT OR REAR)

AV (Audio / Video) is a dedicated input for VCR's, Satellite Receivers and other Audio / Video equipment. This TV is capable of switching to AV operation automatically if the equipment connected provides a switching signal to the SCART socket. In this condition the display will show EC and it is possible to change the programme position of the TV without changing the displayed picture (this is not possible when using the front AV connections).



Ancillary equipment and cables shown are not supplied with this TV set.

Do not connect a computer with TTL output (5V) to this TV set.

The TV's speaker will be automatically disconnected whilst the headphones are connected.

Do not connect front and rear AV inputs simultaneously, as the sound and pictures will be mixed.

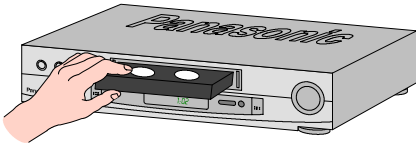
VCR INSTALLATION

Your new TV is supplied with programme position '0' designed specifically to receive an RF signal from a VCR.

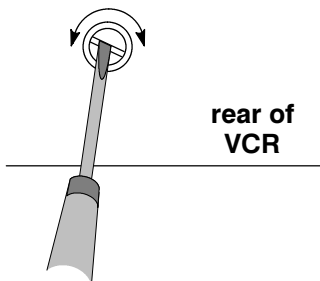
However, depending on the VCR's setting you may not receive any picture or sound from the VCR on programme position '0' of the TV. It will be necessary to either adjust the RF channel of the VCR or to adjust the tuning of the TV's programme position '0' or both until the RF output channel of the VCR is received.

It is intended that this advice is used in conjunction with the instruction books for your ancillary equipment.

TO TUNE YOUR VCR TO THE TV



RF CHANNEL ADJUST



Note :
Some VCR's are capable of adjusting their RF channel via their remote control unit.



Insert
recorded tape
and select
playback

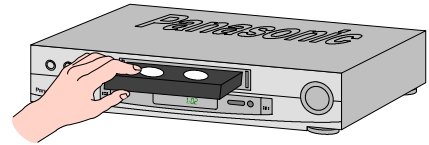
Set TV to
programme
position '0'
VCR

Adjust
tuning

Operation
completed

See below for
installation of VCR
and
Satellite Receiver

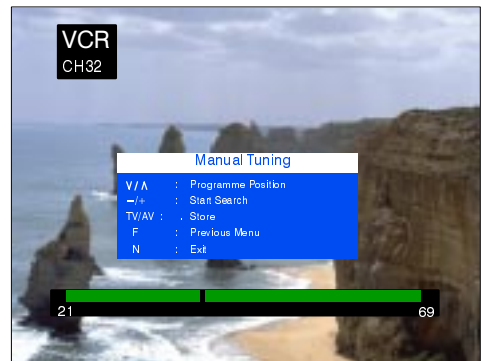
TO TUNE YOUR TV TO THE VCR



Access the Manual tuning menu as detailed on page 9.

Programme position and current channel are displayed top left of screen

∇ ∆ To select programme position '0'
- + To start search for VCR playback



TV/AV To store position

N To return to viewing screen



If you are going to use a Satellite Receiver and a VCR, it is important, to avoid tuning problems, that they are both tuned to output their signals on different channels. For example, if your VCR is tuned to output channel 32, your Satellite Receiver could be set to output channel 34. Refer to your Satellite Receiver and VCR instruction books for precise tuning information.

VCR OPERATION

The Remote Control is capable of operating some functions of selected Panasonic VCR's, please consult your dealer for details. Some VCR's have different functions, so to ensure compatibility please refer to the VCR's instruction book.



VCR Standby



Still Advance
frame by frame when in
PAUSE / STILL mode.



Pause / Still



Stop



Rewind / Review



Play



Fast Forward / Cue

AUDIO OUT



If a Stereo Hi-Fi VCR is connected to this TV, press this key to select the sound output required.



Record
Press together



VCR programme up / down

VCR Operating switch

If any difficulty is encountered when using this remote control with Panasonic VCR's please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two (for details of the location of this switch please refer to Battery Installation and Replacement on page 4).

TROUBLE–SHOOTING

Before calling for service, determine the symptoms and make a few simple checks as shown below. For service please contact your local Panasonic dealer quoting the model number and serial number (both are located at the rear of the TV).

Symptoms		Checks
Picture	Sound	
Snowy Picture or Multiple Images	Noisy Sound or Normal Sound	Aerial location, direction or connection
Interference	Noisy Sound	Electrical appliances, vehicles, fluorescent lights
Normal Picture	Noisy or No Sound	Volume level or sound muted
No Picture	No Sound	Not plugged into A.C. outlet, not switched on picture / sound controls set at minimum levels
No Colour	Normal Sound	Colour controls set at minimum levels
Scrambled	Normal or Weak Sound	Retune channel(s)

GENERAL INFORMATION

Sleep Feature

If the set is not switched off when the TV station stops transmitting, it will automatically go to standby mode after 30 minutes. This function will not operate when in AV mode.

Last Position Memory

Certain functions have a last position memory, i.e. the setting at the time of switch off will be the setting used when the receiver is switched on again:

Programme position	Colour	Volume
Contrast	Brightness	Standby
Sharpness	Status	C–A–T–S

TV Games / Home Computers

Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible picture tube damage can be limited by observing the following points :

- Reduce the brightness and contrast levels to a minimum viewing level.
- Do not operate the television set for a continuous period of time while using TV games or home computers.

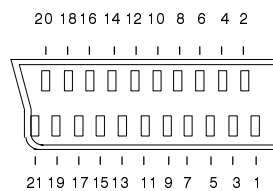
This type of picture tube damage is not an operating defect and as such is not covered by the Panasonic warranty.

SPECIFICATIONS

Model Number:	TX-21S3TL	TX-14S3TL
Power Source:	220-240V 50Hz A.C.	
Power Consumption:	50W	33W
Standby Power Consumption:	1W	
Picture Tube:	51cm visible diagonal	34cm visible diagonal
Audio Output (music)	6W, 8Ω impedance, mono	
Dimensions:	480 (H) x 520 (W) x 485 (D) mm	364 (H) x 389 (W) x 384 (D) mm
Weight:	20 kg	10 kg
Receiving Systems:	PAL I UHF E21-69, VHF A1-S20, S21-41 (Hyperband) PAL 525/60 Playback of NTSC tape from PAL Video recorders (VCR)	
Aerial (rear):	UHF / VHF	
Headphones (front):	3,5mm, 8Ω impedance, mono	
AV - Rear:	21 pin terminal - Audio/Video in/out, RGB in	
AV - Front:	RCA Audio in/RCA Video in	

Design and specifications are subject to change without notice.
Weight and dimensions shown are approximate.

SCART TERMINAL INFORMATION



1. Audio out (R)
2. Audio in (R)
3. Audio out (L)
4. Audio earth
5. Blue earth
6. Audio in (L)
7. Blue in
8. Status CVBS
9. Green earth
10. - -
11. Green in
12. - -
13. Red earth
14. Ground
15. Red in
16. Status RGB
17. CVBS earth
18. RGB Status earth
19. CVBS out (video)
20. CVBS in (video)
21. Socket earth

Panasonic Ireland Ltd
Burton Hall Road,
Sandyford Industrial Estate,
Dublin 18