TC-21/14S3RL Operating Instruction







Panasonic



TC-21S3RL TC-14S3RL





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

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

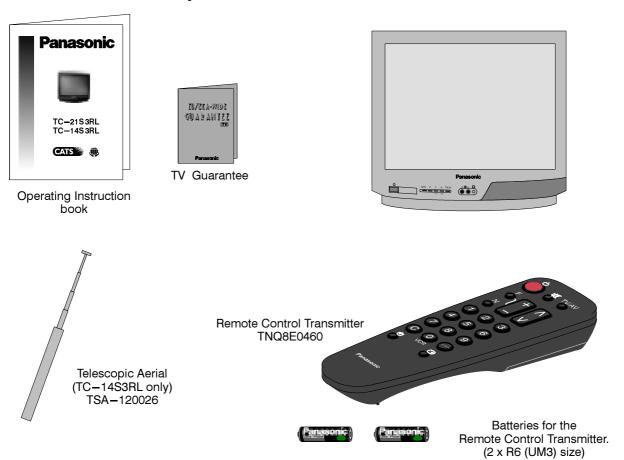
BLUE: NEUTRAL BROWN: LIVE

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: -

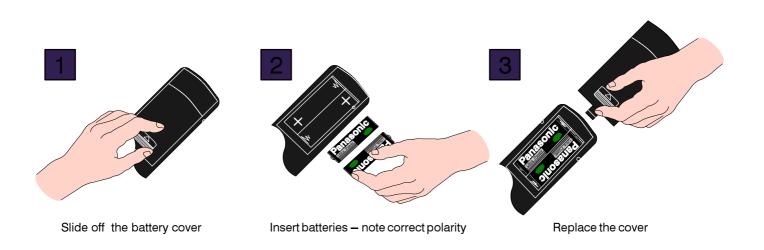
- 1. The **BLUE** wire must be connected to the terminal marked 'N' or coloured black.
- 2. The BROWN wire must be connected to the terminal marked 'L' or coloured red.

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 (\perp).

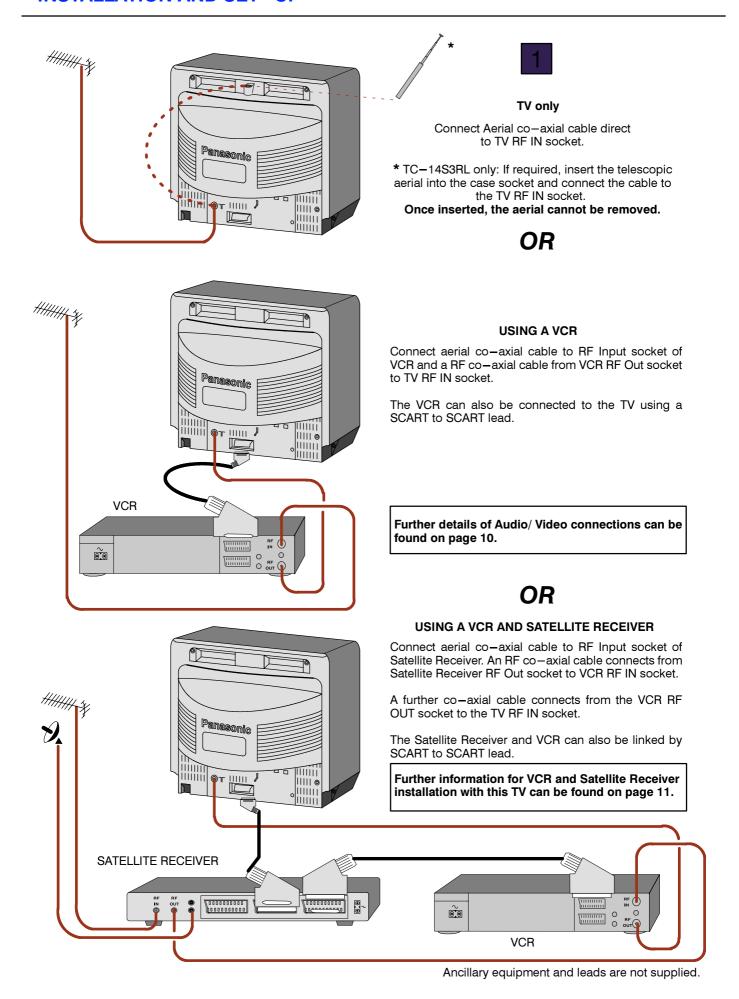
Check that you have the accessories and items shown



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

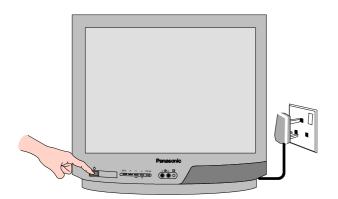


Switch ON your VCR. *1 Switch ON your Satellite Receiver.*2 Plug the TV into a mains socket and switch ON. Programmes will appear immediately if your dealer has programmed the TV for you.



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

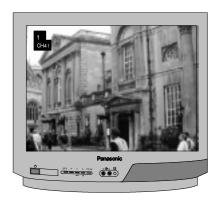
Switch the VCR Test Signal 'off'. *4

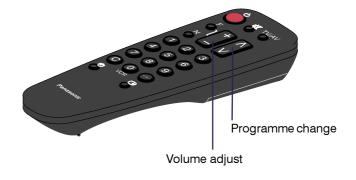




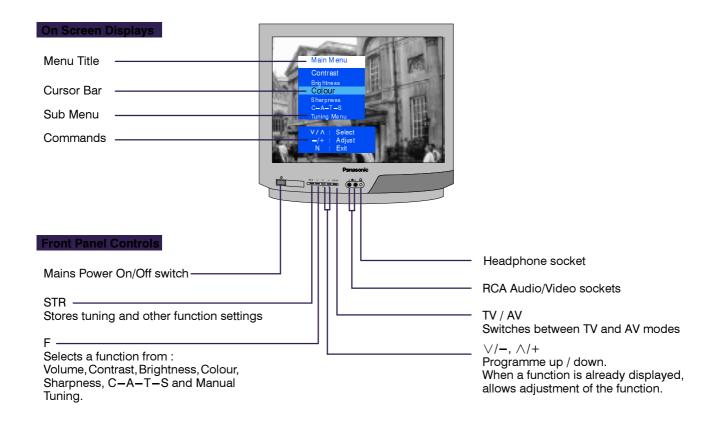
4

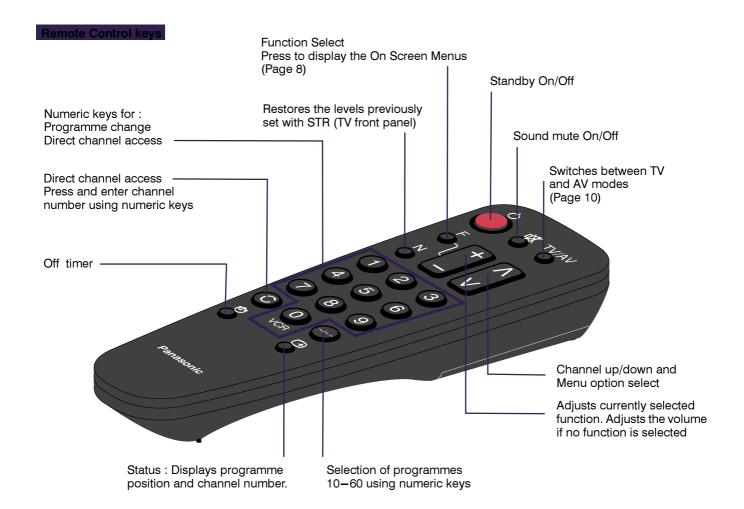
The first available channel will be displayed.

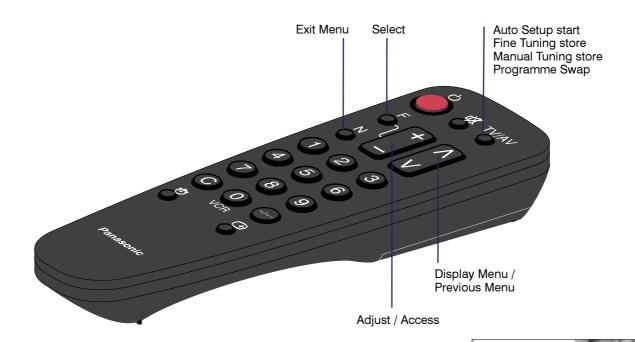




- *1. We recommend that you switch ON the VCR's test signal refer to your VCR instruction book.
- *2. We recommend that your Satellite Receiver is set to either SKY ONE or SKY NEWS to ensure reliable tuning.
- *3. If the order in which the stations are stored is not to your preference it can be rearranged. 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 11 for guidance.







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.

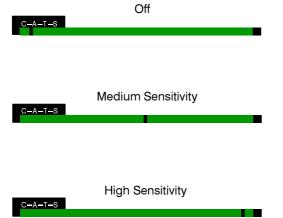
To obtain best results first set the Contrast to maximum, to allow a greater operating range for C-A-T-S, then select one of the 3 settings as desired.





Main Menu

Contrast











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.

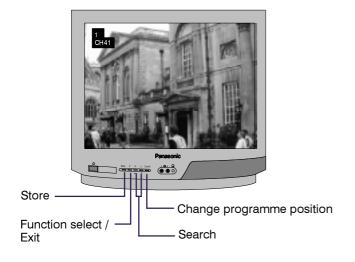




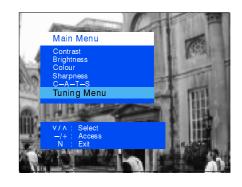
Manual Tuning (front panel of the television)

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".

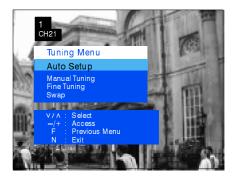






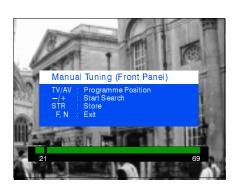








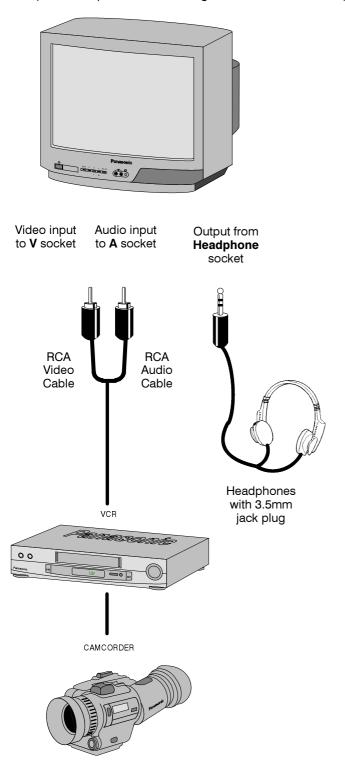


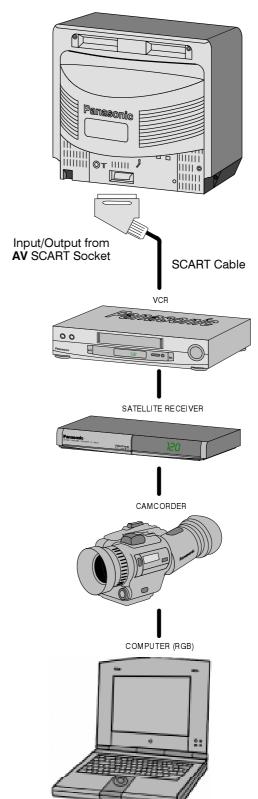


AUDIO / VIDEO CONNECTIONS (FRONT OR REAR)

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





Adjust tuning

Operation completed

See below for installation of VCR and Satellite Receiver

TO TUNE YOUR TV TO THE VCR



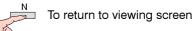
Access the Manual tuning menu as detailed on page 9.

Programme position and current channel are displayed top left of screen

- \lor \land To select programme position '0'
- + To start search for VCR playback









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.

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).

Symp	toms	Obselia	
Picture	Sound	Checks	
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 positionColourVolumeContrastBrightnessStandbySharpnessStatusC-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.

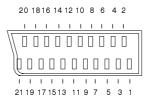
This type of picture tube damage is not an operating defect and as such is not covered by the Panasonic warranty.

SPECIFICATIONS

Model Number:	TC-21S3	RL	TC-14S3RL	
Power Source:	220-240V 50Hz A.C.			
Power Consumption:	50W		33W	
Power Consumption: Standby Power Consumption:	1W			
Picture Tube:	51cm visible diagonal		34cm visible diagonal	
Audio Output (music)	6W, 8 Ω 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	AL I UHF E21-69, VHF A1-S20, S21-41 (Hyperband)		
	PAL 525/60	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

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