

Panasonic

Operating Instructions LCD TV

Model No. **TX-14LA1**
TX-17LA1
TX-20LA1



LCD TV shown above is model TX-20LA1.



Please read these instruction before operating your set and retain them for future reference.

English

Welcome

Dear Panasonic Customer,

We hope that you have many years of enjoyment from your new TV. The **Quick Start Guide** section at the beginning of this instruction book will allow you to use the TV as quickly as possible. We recommend that you then read the complete instruction book, and keep it to refer to as you explore the range of advanced features that this TV offers.

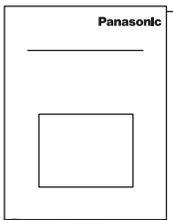
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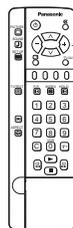
Accessories

Check that you have the accessories and items shown

Operating Instruction book
(TQBC0656)

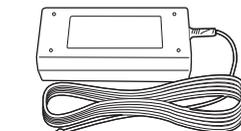


Remote Control Transmitter
(EUR511272)

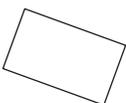


AC Adaptor & Mains Lead

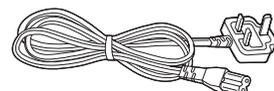
- AC Adaptor:
TX-14LA1: (N0JZHJ000001)
TX-17LA1: (N0JZHK000011)
TX-20LA1: (N0JZHK000011)
- Mains Lead: (K2CT3AA00002)



TV Guarantee



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



Warnings and Precautions

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT 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 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 13 amp 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.

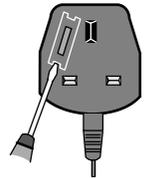
How to replace the fuse (for plug type shown in example 1):

Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug (see example 1).

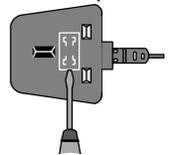
How to replace the fuse (for plug type shown in example 2):

Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse, then press the fuse cover down securely (see example 2).

Example 1



Example 2



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 :

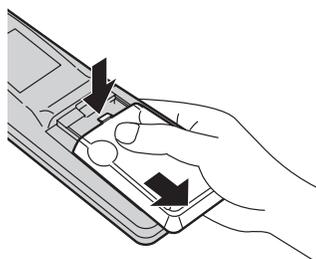
Under no circumstances should either of these wires be connected to the Earth terminal of the three pin plug, marked with the letter 'E' or the earth symbol .

Warnings and Precautions

- This TV set is designed to operate on DC 15V.
 - To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.
 - **WARNING : HIGH VOLTAGE!!!**
Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
 - **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 LCD panel damage, can be limited by observing the following points:
 - Reduce the brightness and contrast levels to a minimum viewing level.
 - Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the LCD TV screen.
 - Examples of still pictures include logos, video games, computer images, teletext and images displayed in 16:9 mode.
 - This type of LCD panel damage, is not an operating defect, and as such is not covered by the Panasonic warranty.
 - The **On/Off** switch on this model does not fully disconnect the TV from the mains supply. Remove the mains plug from the wall socket before connecting or disconnecting any leads, or if the TV set is not used for a prolonged period of time.
- Note:**
If the set is not switched off when the TV station stops transmitting, it will automatically go to stand-by mode after 30 minutes. This function will not operate when the TV is in AV mode.
- **Cabinet and LCD panel care**
Remove the mains plug from the wall socket. The cabinet and LCD panel can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum.
 - When ambient temperature is cool, the picture may take a short time to reach normal brightness, but this is not a malfunction. (After brief moment, the picture will have normal brightness.)
 - Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 10 cm is left all around this television receiver even when it is placed inside a cabinet or between shelves.
 - Avoid exposing the TV set to direct sunlight and other sources of heat. To prevent fire, never place any type of candle or naked flame on top or near the TV set.

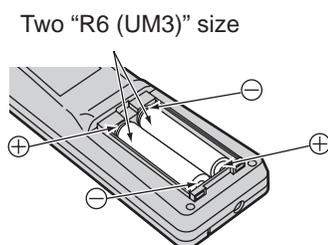
Fitting remote control batteries

1



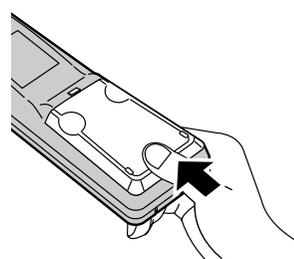
Slide off the battery cover

2



Insert batteries - note correct polarity (+ and -)

3



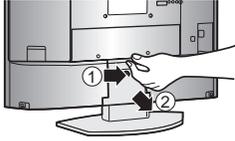
Replace the cover

- 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 or use rechargeable (Ni - Cad) batteries.

Antenna cover removal and fitting (TX-17LA1, TX-20LA1)

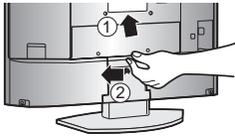
TX-17LA1

Removal



1. Grasp the cover at the bottom end and initially remove by pulling slightly toward yourself.
2. Slowly pull out in the downward direction.

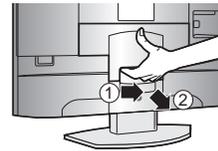
Fitting



1. Insert the claws (at 4 points) at the top end.
2. Push it until click.

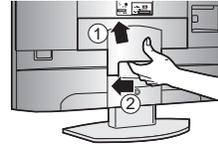
TX-20LA1

Removal



1. Grasp the opening and initially pull the cover slightly towards yourself to disengage the claws (at 2 points on both the left and right).
2. Slowly pull out in the downward direction.

Fitting



1. Insert the claws (at 4 points) at the top end.
2. Push it until click.

Cable cover removal and fitting (TX-17LA1, TX-20LA1)

Removal



1. Disengage the claws at the uppermost end.
2. Slowly pull out in the upward direction.

Fitting



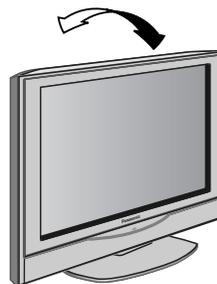
1. Insert the claws (at 2 points) at the bottom.
2. Push it until click.

Note:

Depending on the type of cable used it may not be possible to close the cover. In such cases the cable may be routed through the antenna cover.

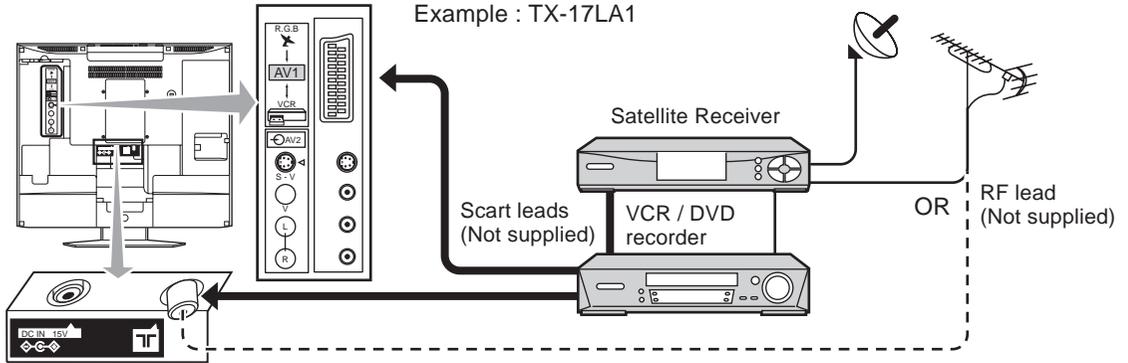
How to use the LCD stand

Adjust the stand to your desired angle. The stand angle can be adjusted between 5 ° forward to 15 ° backward.



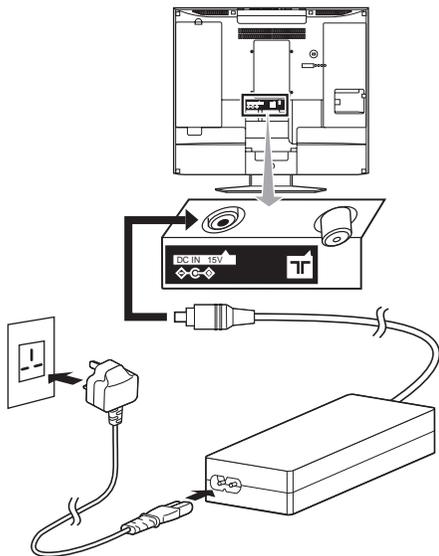
Quick Start Guide

1



Plug in aerial and connect ancillary equipment

2

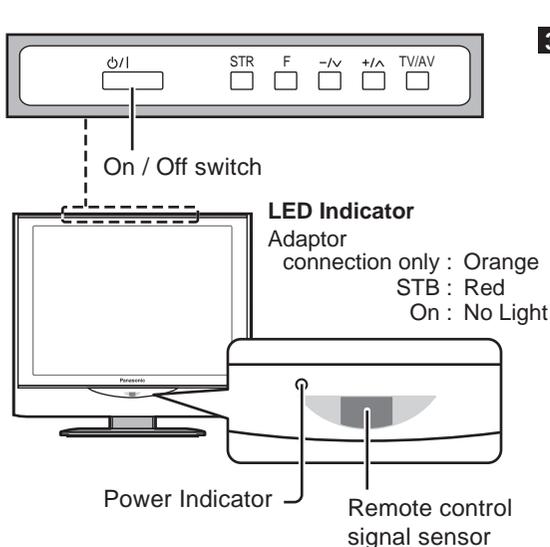


1 Connect the external equipments, if required, as shown above.

2 Connect the AC Adaptor DC plug to the DC IN socket. Plug into household mains socket.

- Be sure to use the mains lead and AC adaptor included in the accessories.
- Do not use the AC adaptor for other than the specified equipment.
- Unplug the AC adaptor if it is not used for long time.
- Do not place any objects on the AC adaptor.
- Do not use the AC adaptor outdoors.
- Do not attempt to repair the AC adaptor if it is broken or malfunctioning. Refer the servicing to the service representative.
- Do not try to open the AC adaptor.
- Do not use water or wet cloth for cleaning the AC adaptor.

3



3 Press the ϕ/I switch on the LCD TV to turn the set on.

IMPORTANT NOTES

There are two ways to switch the TV set to stand-by mode.

(A) Press the ϕ/I switch on the LCD TV and the amber LED is lit.

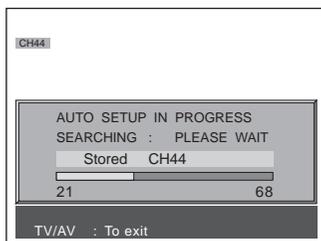
OR

(B) Press the \odot Stand-by button on the remote control and the Red LED is lit.

The TV set can be switched on by the remote control, only if it was switched to stand-by using method (B).

Quick Start Guide

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First, ensure that the recording device is in Standby mode. If the TV has not been programmed for you then **Auto setup** will begin, your stations will be located, sorted into order and stored ready for use (refer to page 17).

TV to VCR /DVD recorder download

If the recording device has not accepted download data from the TV, you may need to select the Download option from the device's menu system.

Refer to the recording device's operating instruction book.

- The sorted programme order depends upon the TV signal, the broadcasting system, and reception conditions.
If the order is not to your preference it can be rearranged. Refer to the Programme edit menu - see page 15 for details.
- If you have a digital satellite receiver, you can start Auto setup with the receiver set to any channel. You will then have to manually name the 'SAT' position after Auto setup is complete. Refer to the Programme edit - see page 16 for details.

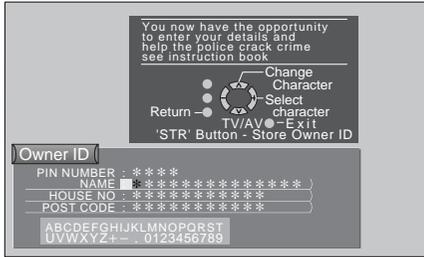
Prog. Position	All channels	No CH5	No CH5/S4C	No CH4/CH5	No S4C	No CH4/S4C	No CH4/S4C/CH5
1	BBC1	BBC1	BBC1	BBC1	BBC1	BBC1	BBC1
2	BBC2	BBC2	BBC2	BBC2	BBC2	BBC2	BBC2
3	ITV	ITV	ITV	ITV	ITV	ITV	ITV
4	CH4	CH4	CH4	S4C	CH4	CH5	SAT
5	S4C	S4C	SAT	SAT	CH5	SAT	*
6	CH5	SAT	*	*	SAT	*	
7	SAT	*	*	*	*	*	*

Note:

* The next available channel will appear, If no other stations are available then the Programme position will remain nused.

Quick Start Guide

5



As an added feature, this TV has the option of entering a security code (Owner ID) and personal details into its memory, so that in the unfortunate event of theft it will help the police to trace the owner.

Enter required 4 digit Owner ID **PIN NUMBER** (using 0 to 9 on the remote control)

Press the **TV/AV** button at any time to exit the Owner ID feature without saving any information you may have entered.

Enter NAME, HOUSE NUMBER and POSTCODE

If a 4 digit **PIN NUMBER** was entered above, you will be taken automatically to the NAME line.

If not, move to the **NAME** line.

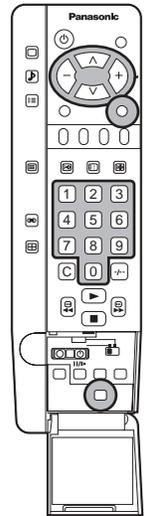
Change character.

Select character position.
Repeat above until **NAME, HOUSE NUMBER** and **POSTCODE** are entered.

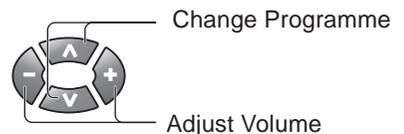
Press **STR** to store the details
Press **STR** again, when you are asked "Are you sure?"
For further information on Owner ID, including how to view the details you have stored, see page 20.
A space is provided on page 20 to write down your **PIN NUMBER** for future reference.



TV/AV



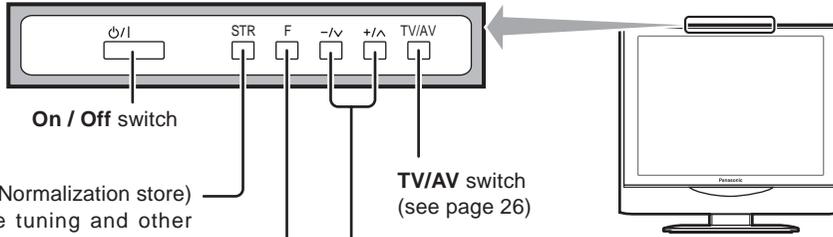
STR



6

You are now ready to begin viewing programmes
The cursor controls provide the two basic functions:

Basic controls: top panel and remote control



On / Off switch

STR (Normalization store)
Used to store tuning and other function settings

F (Function select)
Displays the On Screen Display functions, use repeatedly to select from the available functions - **Volume, Backlight, Contrast, Brightness, Colour, Sharpness, Tint** (in NTSC mode), **Bass, Treble, Balance** and **Tuning**.

TV/AV switch
(see page 26)

Increases or decreases the programme position by one. When a function is already displayed, press to increase or decrease the selected function. When in **Standby** mode, switches TV **On**

Stand-by On / Off switch
Switches TV **On** or **Off** (stand-by)

Menu buttons
Press to access the **PICTURE, SOUND** and **SETUP** menus (see page 10 - 13)

Status button
Press to display programme position, programme name, channel number, time, **NICAM** mode, **ASPECT** mode and programme table

Teletext buttons (see page 23 - 25)

Ambience On / Off (see page 12)

ASPECT control button
(see page 21)

Direct channel access
During normal TV viewing or when in the **Tuning** or **Manual tuning** menus, press and then enter channel number using the numeric buttons

N (Normalize) button
Resets all settings to their default levels



Sound mute **On / Off**

Cursor buttons to make selections and adjustments

Switch between viewing TV or AV input
(see page 26)

Coloured buttons used for **Programme edit** functions (see page 15)
Teletext functions (see page 23)
AV selection (see page 26)

Programme / channel change buttons (0-9) and Teletext page buttons (see page 23).
When in **Standby** mode, switches TV **On**

Programme position for selection of two digit programmes (10-99) using numeric buttons

VCR / DVD buttons
(see page 22)

STR (Normalization store)
Stores some current settings as the normalized settings in **SOUND** menu.
Stores some settings in **Tuning** and **Programme edit** menus.

Using the On Screen Displays

Many features available on this TV can be accessed via the On Screen Display menu system. Use the remote control as shown below to access and adjust features as desired.

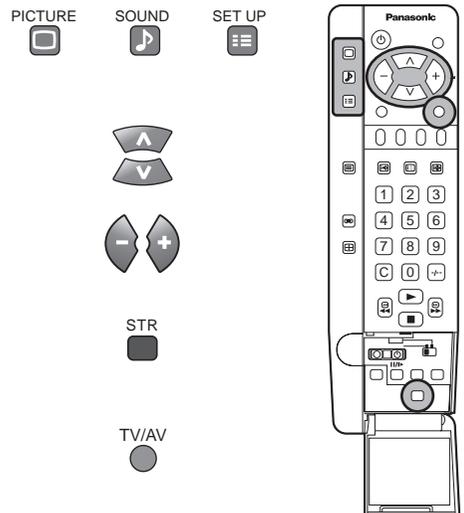
The **PICTURE**, **SOUND** and **SET UP** buttons are used to open the main menus and also to return to the previous menu

The up and down cursor buttons are used to move the cursor up and down the menus

The left and right cursor buttons are used to access menus, adjust levels or to select from a range of options

The **STR** button is used with a number of features to store settings after adjustments have been made or options have been set

The **TV/AV** button is used to exit the menu system and return to the normal viewing screen

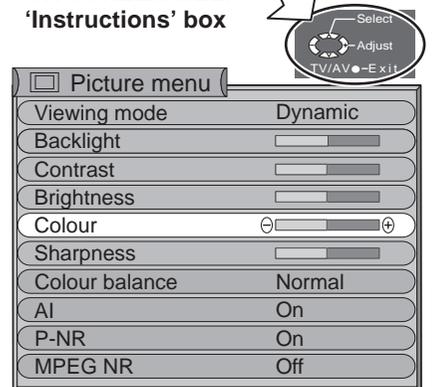


An On Screen Help box is displayed whenever a menu is displayed on the TV. This Help box indicates which keys on the remote control are used to navigate the menu shown, see above for descriptions of button functions.

Note:

The Help box is not shown in the menu pictures in this instruction book due to space limitations.

ON SCREEN HELP 'Instructions' box





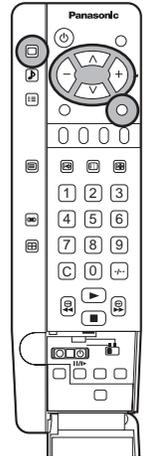
Picture menu

Press the **PICTURE** menu button

Move to choose menu option

Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV



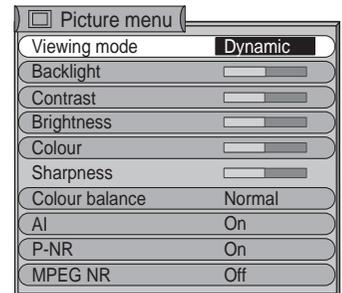
Viewing Mode

The Viewing mode menu allows you to select three different screen settings - Dynamic, Normal and Cinema.

In each Viewing mode setting, Backlight, Contrast, Brightness, Tint (in NTSC only), Colour, Sharpness, Colour balance, AI, P-NR and MPEG NR can be adjusted and stored to suit your particular viewing requirement (for example, you may require different settings for viewing sport, films, news etc.)

Viewing mode offers you up to maximum of three separate settings for each signal source: RF, AV1 (including RGB) and AV2. Changes will be stored automatically.

By analysing and processing the incoming picture, all three modes feature automatic enhancement.



Backlight Contrast Brightness Colour Sharpness

Increase or decrease the levels of these options according to your personal preference.

Tint

With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste.

Colour balance

Allows you to set the overall colour tone of the picture. Choose from **Cool**, **Normal** and **Warm**.

AI

Automatically analyses the incoming picture and processes it to give improved contrast and optimum depth of field.

P-NR

Automatically reduces unwanted picture noise, when viewing analogue TV broadcast.

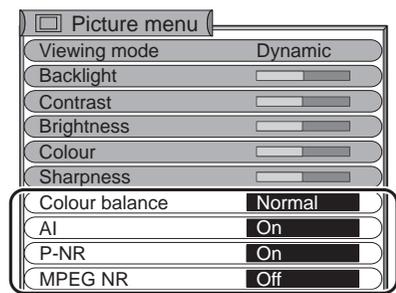
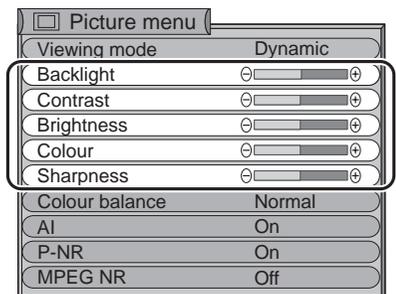
MPEG NR

Reduces MPEG noise.

This function is effective in reducing the picture noise when viewing DVD, VCD or digital broadcasting. The effect will be changed based on the scene and image.

Note:

MPEG Compression technology of the image signal adopted by DVD, VCD or digital broadcasting.



Sound menu

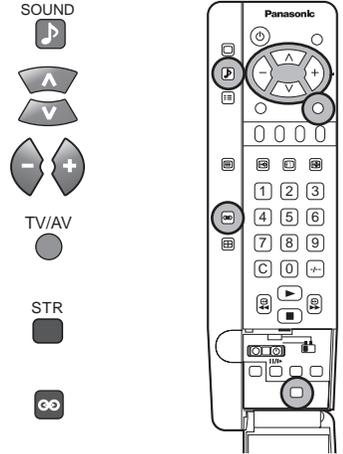
Press the **SOUND** menu button

Move to choose menu option

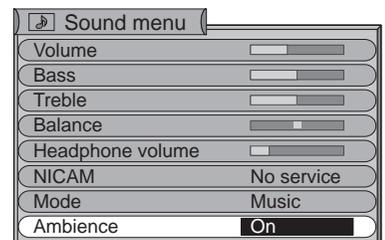
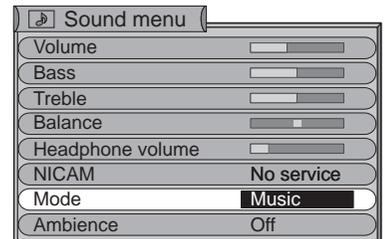
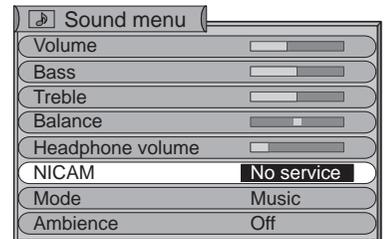
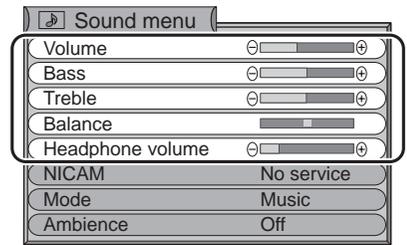
Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV

Pressing the **STR** button after having adjusted a feature will store the setting as the default (replacing the factory setting).



- Volume** Lets you set the overall output volume.
- Bass** Increase or decrease level to enhance or minimise lower, deeper sound output.
- Treble** Increase or decrease level to enhance or minimise sharper, higher sound output.
- Balance** The levels of sound between the left and right speakers can be adjusted to suit your listening position.
- Headphone volume** Can be adjusted independently of the TV speakers so that everyone can enjoy listening at a level comfortable for them.
- NICAM** Usually set to **On** to receive a stereo signal, but if reception deteriorates or if the service is not available then switch to **Mono. Mono (M1)** and **(M2)** can also be selected if a mono signal is being transmitted.
- Mode** Sound quality can be improved when watching music scene or drama by selecting the appropriate **Music** or **Speech** mode.
- Ambience** To enjoy a concert hall effect, turn Ambience On. Switching is also possible by pressing the **Ambience** button.
The benefits of Ambience sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema. The Ambience effect can be obtained without the use of external Ambience speakers.

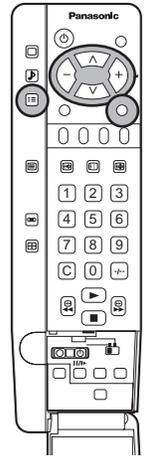


Press the **SETUP** menu button

Move to choose menu option

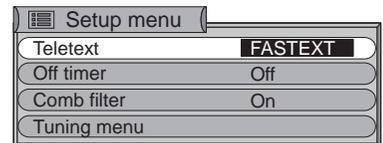
Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV



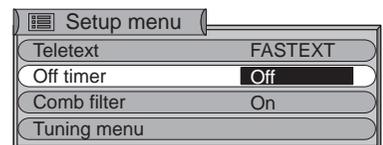
Teletext

Allows you to choose between **FASTEXT** or **LIST** mode. See page 23.



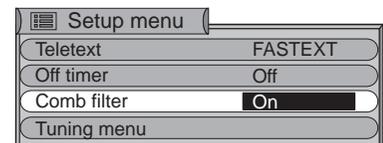
Off timer

Switches the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.



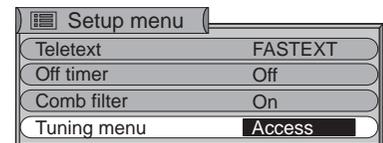
Comb filter

Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen. Set Comb filter to **On** to display sharper and more accurate colours.



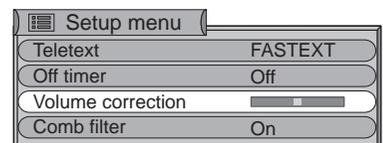
Tuning menu

Provides access to many other features including **Programme edit** and **Auto setup**. See page 15-17.



Volume correction

During **AV** mode, Volume correction is displayed. You can adjust volume level of each AV mode. Volume level is memorised.



Tuning menu – overview

Press the **SETUP** menu button

Move to **Tuning menu** option

Access **Tuning menu**

Move to choose menu option

Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV

Pressing the **STR** button after having adjusted some features will store the setting as the default (replacing the factory setting).

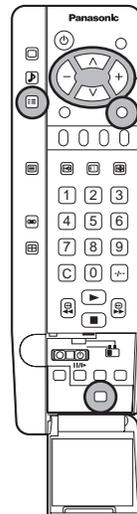
SET UP



TV/AV



STR



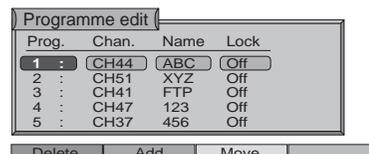
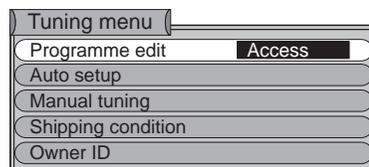
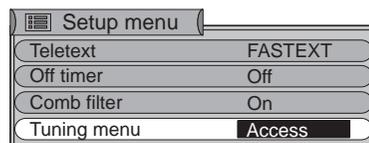
Programme edit Access in order to customize your programme settings (eg: adding or deleting a programme position) See page 15.

Auto setup Allows you to automatically retune the TV. Useful if you move house and wish to retune your TV to the local stations. See page 17.

Manual tuning Allows individual programme positions to be tuned manually. See page 18.

Shipping condition Allows you to clear all tuning information and reset all control levels back to factory settings. See page 19.

Owner ID Allows you to enter a security code and address information. See page 20.



Tuning menu – Programme edit

Press the **SETUP** menu button

Move to **Tuning menu** option

Access **Tuning menu**

Move to **Programme edit** option

Access **Programme edit**

Move to choose programme position (eg: Prog. 3)

Make required change, eg: moving a programme channel (see the relevant procedure below)

Press the **TV/AV** button at any time to go back to watching TV

Pressing the **STR** button after having adjusted some features stores the change made

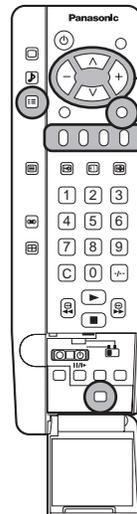
SET UP



TV/AV



STR



Adding / deleting a programme channel

Make sure the cursor is in the **Prog.** column



Press the green button to add a programme channel to the programme position, or the red button to delete one



Press the same button again to confirm your decision



Programme edit			
Prog.	Chan.	Name	Lock
1	CH44	ABC	Off
2	CH51	XYZ	Off
3	CH41	FTP	Off
4	CH47	123	Off
5	CH37	456	Off

Add Cancel

Moving a programme channel

Make sure the cursor is in the **Prog.** column



Press the yellow button



Choose the new position for the programme channel



Press the yellow on screen selector key again to confirm your decision



Programme edit			
Prog.	Chan.	Name	Lock
1	CH44	ABC	Off
2	CH51	XYZ	Off
3	CH41	FTP	Off
4	CH47	123	Off
5	CH37	456	Off

Confirm Cancel

Tuning menu – Programme edit

Renaming a programme channel

Move to the **Name** column



Choose the new character. The box at the bottom of the screen shows the character currently selected.



Move to the next character position



Continue until renaming is done

Press **STR** to store the new name



Programme edit			
Prog.	Chan.	Name	Lock
1	: CH44	ABC	Off
2	: CH51	XYZ	Off
3	: CH41	FTP	Off
4	: CH47	123	Off
5	: CH37	456	Off

ABCDEFGHIJKLMNORST
UVWXYZ+- . 0123456789

Locking a programme channel

You may wish to lock a programme channel to prevent access to it.

Move to the **Lock** column



Choose between Lock **On** or Lock **Off**



Press **STR** to store the new setting



Programme edit			
Prog.	Chan.	Name	Lock
1	: CH44	ABC	Off
2	: CH51	XYZ	Off
3	: CH41	FTP	Off
4	: CH47	123	Off
5	: CH37	456	Off

Note:

When a programme position is locked, Direct Channel Access using the **C** and numeric buttons on the remote control is not available.

Tuning menu – Auto setup

Auto setup automatically retunes your TV. This feature is useful if, for example, you move house and wish to retune your TV to receive the local stations.

➔ Press the **SETUP** menu button

Move to **Tuning menu** option

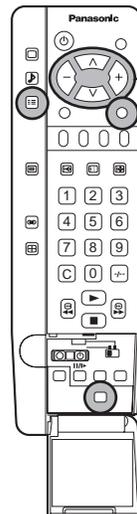
Access **Tuning menu**

Move to **Auto setup**

Access **Auto setup**

Press to confirm start

SET UP



Note:

If you proceed with the next step all tuning data will be erased (all stations and their programme positions stored in your TV's memory will be wiped out so the new settings can be stored).

If you exit the procedure after this point and before **Auto setup** is complete, no station information will be stored. Restart and complete the Auto setup procedure so that the TV is retuned.

WARNING
All current tuning data will be erased

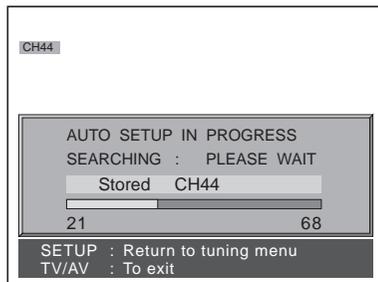
STR : Start Auto Setup
TV/AV : To exit
SETUP : Return to tuning menu

Press **STR** to start **Auto setup**

The TV will search for, locate, store and then sort into order your local stations.

Once this operation is completed the TV will display the programme now stored on programme position 1.

STR



Press the **TV/AV** button at any time to go back to watching TV (please read the **Note** in the above procedure)

TV/AV



Tuning menu – Manual tuning

It is possible to retune individual programme positions:

Press the **SETUP** menu button



Move to **Tuning menu** option



Access **Tuning menu**



Move to **Manual tuning**



Access **Manual tuning**



Select the programme position to be tuned



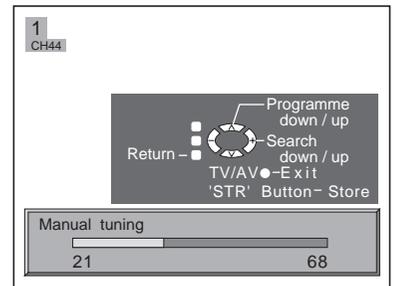
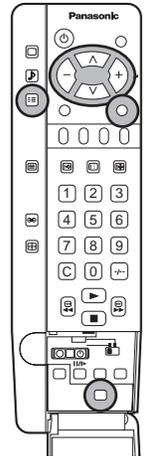
Press repeatedly until required station is found



When the desired station is found, press **STR** to store.
The programme position will flash



Press the **TV/AV** button at any time to go back to watching TV



Manual tuning (via Top panel)

It is also possible to use the control panel buttons on the Top of your LCD TV to tune individual programme positions:

Press the **F** button (Top panel) until **Tuning mode** is reached



Press the **-** or **+** button to access **Tuning mode**



Press the **TV/AV** button to move between **Change programme** and **Search**



Press the **-** or **+** button to change programme position or start search

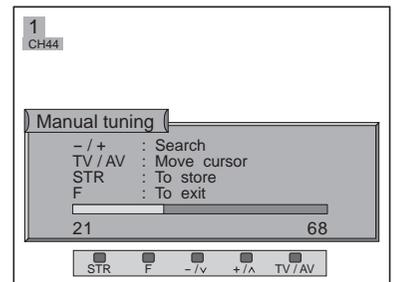
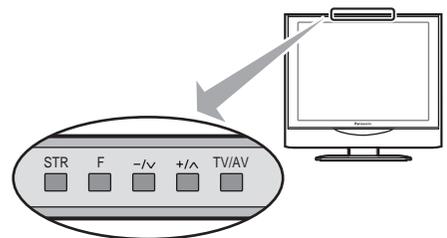


When the desired station is found, press **STR** to store.
The programme position will flash



Repeat above procedure to tune additional programme positions

Press the **F** button at any time to go back to watching TV



Shipping condition

Shipping condition allows you to reset the TV to its original condition, i.e. no channels tuned in. This is useful, for example, if you move to a different area when you will probably want the TV to tune itself to your new local stations.

This can be done either through the **Shipping condition** menu or through the **Auto setup** menu.

The **Shipping condition** menu will reset all data, clearing all tuning information and resetting all control levels back to factory settings.

You may need to adjust your VCR or programme position '0' VCR after operating the **Shipping condition** menu.

Press the **SETUP** menu button



Move to **Tuning menu** option



Access **Tuning menu**



Move to **Shipping condition**



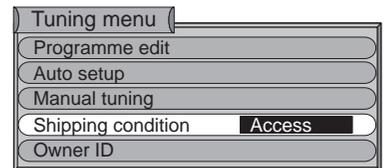
Access **Shipping condition**



Press **STR** to start



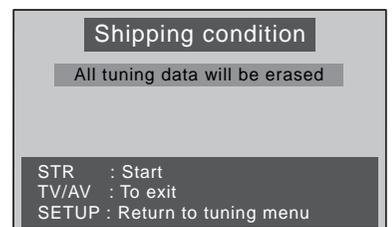
Press again, to confirm, each time that you are asked, "Are you sure?"



Switch TV off and wait for a few seconds

Switch TV on again

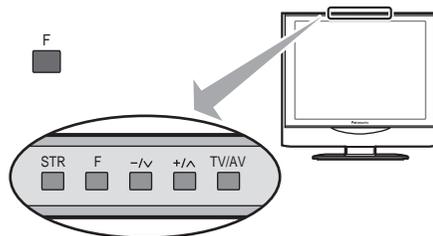
Auto setup will begin, stations will be located, sorted and stored ready for use. See page 17.



Owner ID

Owner ID allows you to enter a security code(Owner ID) and personal details into its memory, so that in the unfortunate event of theft it will help the police to trace the owner.

If you wish to check the personal details already entered into the TV, press the **F** button(Top panel) and hold for 6 seconds(initially the volume level function will appear, as you continue to hold down the **F** button it will disappear again, and the Owner ID information will appear). The details already entered are displayed on screen.



If **Owner ID** information was not entered when you switched on your TV for the first time or it is necessary to alter some of the information, **Owner ID** can be re-accessed via the **Tuning menu**.

Press the **SETUP** menu button

Move to **Tuning menu** option

Access **Tuning menu**

Move to **Owner ID**

Access **Owner ID**

If the **Owner ID** has previously been set, enter the **PIN NUMBER**(using 0 to 9 on the remote control) followed by **STR** to proceed, this will take you to the **NAME** option

If no **Owner ID** has previously been set, enter the required 4 digit **Owner ID PIN NUMBER**(using 0 to 9 on the remote control)

If a 4 digit **PIN NUMBER** was entered above, you will be taken automatically to the **NAME** line

If not, move to the **NAME** line

Change character

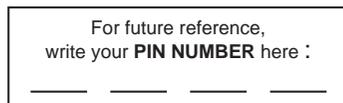
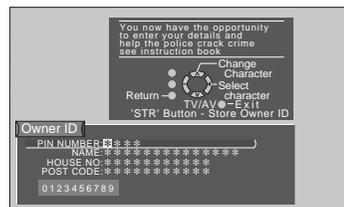
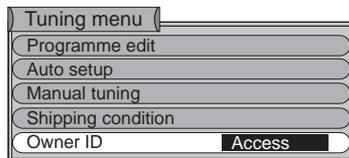
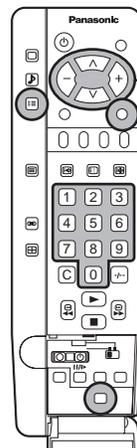
Select character position

Repeat above until **NAME**, **HOUSE NUMBER** and **POSTCODE** are entered

Press **STR** to store the details.
Press again when you are asked, "Are you sure?"

The **Tuning menu** will be displayed

Press the **TV/AV** button to exit



Aspect Controls

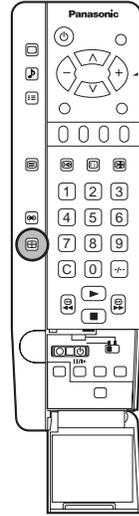
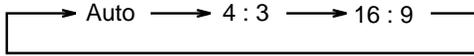
The TV will allow you to enjoy viewing the picture at its optimum size and aspect.

ASPECT



ASPECT button

The aspect mode changes each time the ASPECT button is pressed.



Mode	Picture	Explanation
4 : 3		4:3 will display a 4:3 picture at its standard 4:3 size and can be selected if you wish to view in this format.
16 : 9		16:9 will display a 16:9 picture at its standard 16:9 size and can be selected if you wish to view in this format.
Auto	 4:3 Signal 16:9 Signal	Selecting AUTO mode of this TV will automatically cause the TV to display any incoming picture at its correct format, i.e. 16:9 or 4:3.

VCR / DVD operation

The Remote Control is capable of operating some functions of selected Panasonic VCRs and DVD (Digital Versatile Disc) equipment. Some VCR and DVD equipment have different functions, so to ensure compatibility please refer to the equipment's instruction book or consult your dealer for details.



	<p>Standby Press to switch the VCR, DVD or DVD recorder to standby mode. Press again to switch back on.</p>
	<p>VCR / DVD switch Use this switch to select whether controls operate DVD equipment or your VCR.</p>
	<p>Play Press to playback the tape or DVD.</p>
	<p>Stop Press to stop the tape or DVD.</p>
	<p>Skip / Fast Forward / Cue VCR: Press to fast forward the tape. In Play mode, press to view the picture rapidly forward (Cue). DVD: Press once to skip to the next track.</p>
	<p>Skip / Rewind / Review VCR: Press to rewind the tape. In Play mode, press to view the picture rapidly in reverse (Review). DVD: Press once to skip to the previous track.</p>
	<p>Pause / Still (VCR only) Press in playback mode, the picture will pause. Press again to restart play.</p>
<p>PROGRAMME</p> 	<p>Programme Up / Down (VCR only) Press to increase or decrease the programme position by one.</p>
	<p>Record (VCR only) Press this button to start recording.</p>

Teletext operation

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- Pressing the Picture button whilst in Teletext operation will display the backlight function with a white bar and the contrast function with a cyan bar, press  to alter the setting as required.
- Pressing the Setup button whilst in Teletext operation will display special function options at the bottom of the screen.
- Pressing the Sound button whilst in Teletext operation will display the volume function with a green bar, press  to alter the setting as required.

What is LIST mode ?

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.



TV / Teletext mode

Press the **TV/TEXT** button to switch between the current programme and teletext.



Page Selection

Pages can be selected in two ways :

- a. Press the Up / Down buttons to increase or decrease the page number by one.
- b. By entering the page number, using 0 - 9 on the remote control.



Full / Top / Bottom

Press the **SET UP** button to display special functions, followed by the **Green** button. Press the **Green** button again to expand the BOTTOM half. Press again to return to normal (FULL) size.



Reveal

Press the **SET UP** button to display special functions, followed by the **Red** button to reveal hidden words e.g. quiz page answers. Press again to hide.



Red / Green / Yellow / Blue buttons

In FASTEXT mode these correspond to the differently coloured subjects. In LIST mode they correspond to the differently coloured page numbers.



List Store

In LIST mode the four page numbers can be altered (programme positions 1 - 25 only).

To do this, press one of the four coloured buttons and enter the new page number. Press and hold **STR**, the page numbers will change to white indicating that the page is stored.

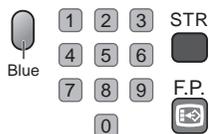


HOLD

To hold the Teletext page when viewing multi-page information. Press again to return to automatic page update.

Teletext operation

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access operation.



Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, and the programme position must be from 1 - 25.

Press the **Blue** button, select the page number, then press and hold the **STR** button. The page number is now stored.

Press **F.P.** to recall this page.

Update Display

Press the **SET UP** button to display special functions, followed by the **Yellow** button to view the TV picture whilst searching for a Teletext page. When found, the screen will display the page number at the top left. Press the **Yellow** button to view the page. Press **TV/TEXT** again to return to normal TV operation.

News Flash

When a news flash page has been selected, press **SET UP, Yellow**, to view the TV picture. When an update is received, the page number will be displayed on screen.

Press the **Yellow** button to display the News Flash

Press **TV/TEXT** to return to normal TV operation.

Update

Press **SET UP, Yellow** to see the update of information on certain pages.

When an update is received, the page number will be displayed at the top left of the screen.

Press the **Yellow** button to view the page.

Press **TV/TEXT** to return to normal TV operation.



Accessing sub pages

When Teletext information exceeds one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. As each sub page is found its number is displayed at the top of the page so that you may select it; as more sub pages are picked up, the display at the top of the page changes, so that you are always offered the most recently transmitted selection of sub pages.

In Teletext operation, use the following procedure to access sub pages:

If the sub page you want to look at is not yet available, press the **SET UP** button (to display special functions) followed by the **Yellow** button to view the TV picture whilst waiting for more sub pages to be found. The sub pages found will be displayed across the top of the screen.



When the sub page you are waiting for is available press the **Yellow** button to return to viewing the Teletext pages, then use the left and right cursor buttons to select the sub page of your choice.

Notes:

- If you do not want the four coloured special function keys to be displayed on the TV picture whilst waiting for a sub page to be found, press either the **PICTURE, SOUND** or **SETUP** menu button to clear the keys from the screen. Press the **SET UP** button once more to redisplay the keys.
- If you have cleared the special function keys from the screen and then used the left and right cursor buttons to select a sub page, whilst still viewing the TV picture, you must press the **SET UP** button then the **Yellow** button to display the Teletext page again.

Teletext operation



Blue

- If the top of the page indicates that sub pages are being transmitted but the page displayed never changes, then the 'sub page number' is there to show the page contents have been updated, there are no sub pages.

Alternatively, if you know which sub page you require, press the **SET UP** button (to display special functions) followed by the **Blue** button; T**** will be displayed where the page number is normally found.

Enter desired sub page number before the T**** disappears.

For example, to select page 6 enter 0, 0, 0 and 6.

Press the **Yellow** button to view the TV picture whilst waiting for more sub pages to be found. The sub pages found will be displayed across the top of the screen.

When the page is available, press the **Yellow** button to view the page. Regardless of how many pages are found, pressing the Yellow button will take you to the sub page which you requested.

Press **TV/TEXT** to return to normal TV operation.

INDEX



Index

When in FASTEXT operation

Press **INDEX** to return to the main 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.

Audio / video connections

It is possible to connect a variety of additional equipment to this TV. The following pages detail how to connect external equipment to the rear of the TV.

Once your equipment is connected, use the following procedure to view the input:

Press the **TV/AV** menu button

Press the relevant on screen selector key to select the AV source you wish to view.

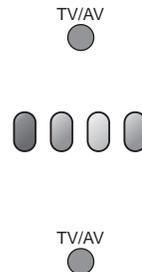
Red: AV1 Scart socket

Green: AV2/S

The on screen selector keys will disappear after a few seconds. To make them reappear press one of the colour keys on the remote control.

Notes:

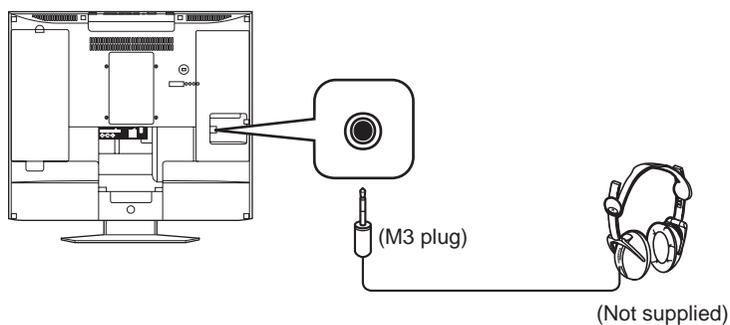
- You can also select an AV source using the **TV/AV** button on the control panel on the top of your TV. Press the **TV/AV** button repeatedly until you reach the AV source you wish to view.
- When in **AV mode** a reduced number of options are available in the **SOUND** and **SETUP** menus (eg: in the Setup menu there is no **Tuning menu** option).



Connecting Headphones / Earphones

Connect headphones / earphones as follows.

Example : TX-17LA1



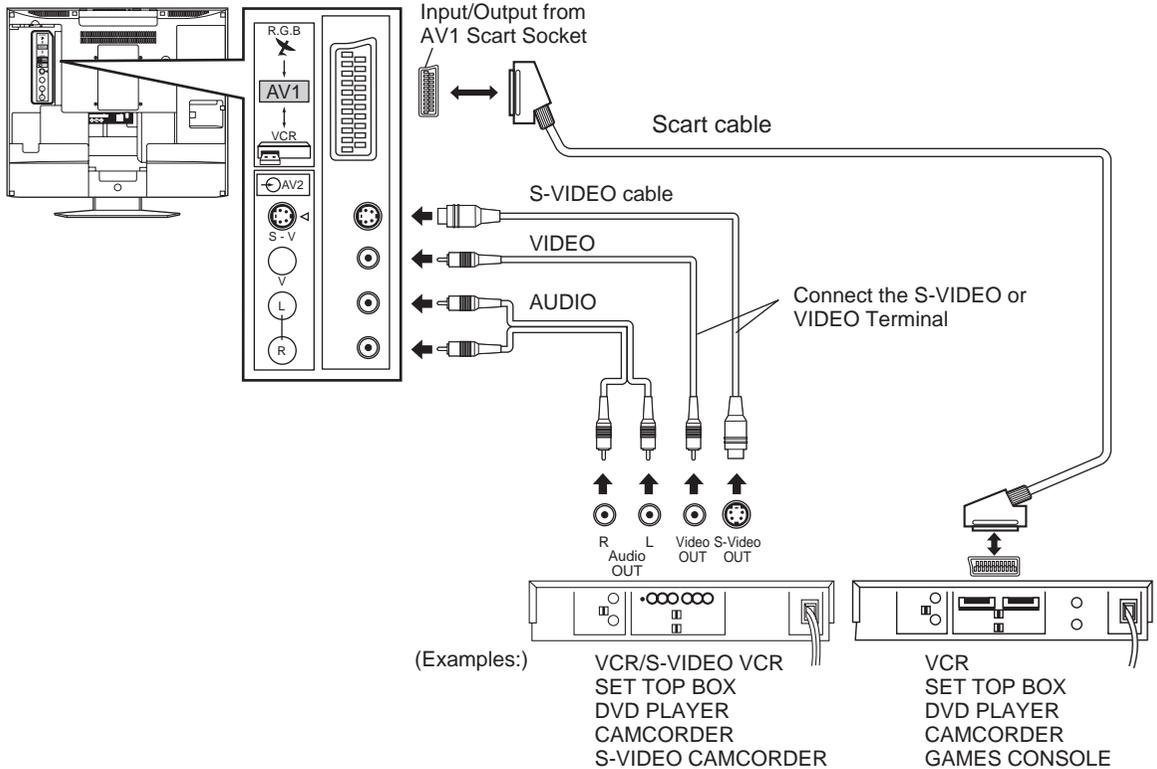
Notes:

- The volume level of the headphones can be adjusted by selecting "Headphone volume" from the Sound menu.
- Additional equipment and cables shown are not supplied with this TV set.

Audio / video connections

How to connect the input terminals

Example : TX-17LA1

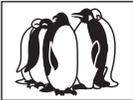
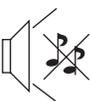
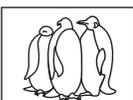


Notes:

- Additional equipment and cables shown are not supplied with this TV set.
- Do not connect a computer with TTL output (5V) to this set.
- For Scart socket wiring information see page 29.

Troubleshooting

If there is a problem with your TV please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).

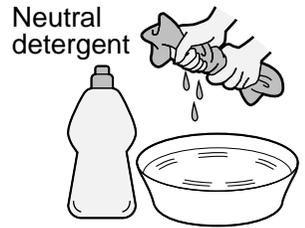
Symptoms		Checks
Picture	Sound	
 Snowy Picture	 Noisy Sound	Aerial location, direction or connection
 Multiple Images	 Normal Sound	Aerial location, direction or connection
 Interference	 Noisy Sound	Electrical appliances Cars / Motorcycles Fluorescent lights Switch on P-NR in Picture menu to reduce picture noise
 Normal Picture	 No Sound	Volume level Sound mute switched on
 No Picture	 No Sound	TV set to AV mode Not plugged into A.C. outlet Not switched on Picture / Sound controls set at minimum levels Check if in standby mode
 No Colour	 Normal Sound	Colour controls set at minimum levels
 Poor or Distorted Picture	 Weak or No Sound	Retune Channel (s)
 Normal Picture	 Weak or Distorted Sound	Sound reception may have deteriorated. Switch NICAM setting (Sound menu) to Off until reception improves.
There may be red spots, blue spots and green spots on the screen	 Normal Sound	This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green, or red. Please note this does not affect the performance of your LCD.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

If the surfaces are extremely dirty, use a soft cloth dipped in soap-and-water solution or a weak detergent solution.

- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.
- Do not wipe the LCD with water.



Wipe the cabinet with a soft cloth

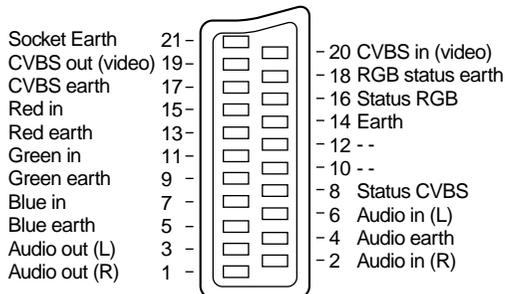
If the cabinet is heavily soiled, wipe with a well-wrung soft cloth dipped in kitchen cleanser (neutral) diluted with water.

CAUTION:

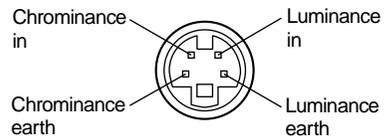
If water or similar substances get inside the monitor via the liquid crystal panel surface, a malfunction may result.

Scart and S-video socket information

AV1 Scart socket



AV2 S-Video 4 pin socket



Specifications

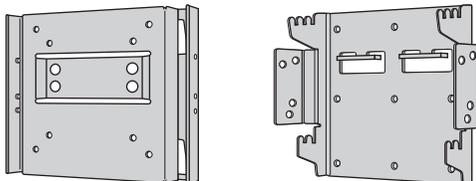
	TX-14LA1	TX-17LA1	TX-20LA1
Power Source	AC 100 - 240 V, 50 / 60 Hz		
Power Consumption	Average use : 46 W Stand-by condition : 1.8 W TV set DC 15 V, 2.6 A max.	Average use : 56 W Stand-by condition : 1.8 W TV set DC 15 V, 3.2 A max.	Average use : 60 W Stand-by condition : 1.8 W TV set DC 15 V, 3.4 A max.
LCD	14-inch (360 mm) 4 : 3 aspect ratio LCD panel	17-inch (432 mm) 4 : 3 aspect ratio LCD panel	20-inch (510mm) 4 : 3 aspect ratio LCD panel
Screen Size	285.1 mm (W) × 213.8 mm (H)	343.7 mm (W) × 261.6 mm (H)	408.0 mm (W) × 306.0 mm (H)
Channel Capability-100	UHF: 21-68		
Sound			
Speaker	φ 4 cm, 2 pcs, 16 Ω		
Audio Output	4.0 W (2.0 W + 2.0 W), 10 % THD	6.0 W (3.0 W + 3.0 W), 10 % THD	
Headphones	M3 (3.5 mm) Jack × 1		
Receiving Systems/ Band name	PAL I PAL 525/60 M.NTSC NTSC (AV input only)	UHF E21 - 68 Playback of NTSC tape from some PAL video recorders (VCR) Playback from M.NTSC Videorecorders (VCR) Playback from NTSC Videorecorders (VCR)	
Aerial - Rear	UHF		
Operating Conditions	Temperature : 5 °C - 35 °C Humidity : 5 % - 90 % RH (non-condensing)		
Connection Terminals			
AV1 (Scart connector)	21 Pin socket (Audio / Video in , TV out , RGB in)		
AV2	S Video in, 1 × RCA Video in, 2 × RCA Audio in		
Dimensions (W × H × D)			
Including TV Stand	365 mm × 364 mm × 215 mm	424 mm × 415 mm × 215 mm	494 mm × 461 mm × 255 mm
TV Set Only	365 mm × 331 mm × 64 mm	424 mm × 382 mm × 64 mm	494 mm × 422 mm × 82 mm
Mass (Weight)	4.6 kg Net	5.4 kg Net	7.4 kg Net

Note:

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

Optional Accessory

- Wall-Hanging Bracket
TY-WK15TA2U
(For use with TX-17LA1 and TX-20LA1 only)



Panasonic

Sales and Support Information

Customer Care Centre

- For UK customers: **08705 357357**
- For Republic of Ireland customers: **01 289 8333**
- Visit our website for product information
- E-mail: **customer.care@panasonic.co.uk**

Cookery Advice (For UK and R.O.I customers): 01344 862108

- Provide guidance on queries relating to your oven or recipes
- Staffed by home economists
- Monday – Friday 9:30am – 5:00pm (Excluding public holidays)

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday – Friday 9:00am – 5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at **www.panasonic.co.uk**.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Exclusive to Plasma / DVD Ram / LCD Television / LCD Projector product:

*Interested in purchasing an extended guarantee? Please contact your dealer or our Customer Support Department on 01344 476540 or **customer.care@panasonic.co.uk** for more details.*

Customer' Record

The model number and serial number of this product can be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

Panasonic (U. K.) Ltd.

Willoughby Road, Bracknell, Berks RG12 8FP

Web Site <http://www.panasonic.co.uk>

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