

COLOUR TELEVISIONS
KLEURTELEVISIES
TELEVISEUR COULEURS

AKAI

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Never attempt to repair a defective TV yourself; it should be performed only by professional Service Personnel.

1. SECTION: INSTALLATION AND PRECAUTIONS



- Position the television so that direct light does not fall on the screen. Excessive light will cause a washed out effect.



- Do not place the television near heat sources such as radiators, ovens, stoves, etc. Do not use the television near any apparatus that produces a magnetic field such as Hi-Fi speakers or electric motors otherwise colour purity may be affected.



- The heat built up in the set escapes through ventilation holes, so do not cover the set with drapes, clothes etc. that may block air circulation. Do not place the television on carpet or soft furnishings.



- Do not place objects filled with liquid such as vase or flower pot on the television top.
- Do not expose the TV to dripping or splashing of liquids.
- Do not place naked flame sources such as lighted candles on the TV set.



- Clean the TV Screen using a slightly damp cloth or chamois leather. Never use abrasive cleaning agents, and always remove the mains plug from the socket outlet while cleaning.



- If you wish to place the television on a shelf or in a wall unit to assist ventilation always ensure there is a minimum air gap of 8 cm around the top, sides and rear of the television.

230

- Your TV set is designed to operate with mains voltages 230V AC; 50Hz. Do not connect your TV set to power sources other than the mains supply.

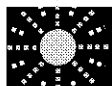
2. Technical Features:

CONTROL UNIT:

Front panels:



Power ON/OFF switch



Stand-by indicator



Programme / Volume decrease button.



Programme / Volume increase button.

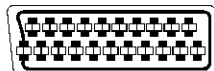


Programme / Volume selection button.

Rear panel:



Aerial Input



Scart socket

Specifications	14"	20"	21"
Screen size	37 cm	51 cm	55 cm
Visible screen size	335 mm	480 mm	508 mm
Aerial Input (Coaxial)	75 ohm	75 ohm	75 ohm
Operating Voltage	230 VAC, 50 Hz	230 VAC, 50 Hz	230 VAC, 50 Hz
Sound Output (Mono) (RMS 10% THD)	2 Watt (RMS %10 THD)	2.5 Watt (RMS %10 THD)	2.5 Watt (RMS %10 THD)
Power consumption	70 Watt	85 Watt	85 Watt
Speaker empedance	16 ohm	16 ohm	16 ohm

Receiving Channels

VHF BAND I Channels 2-4
VHF BAND III Channels 5-12
(CATV) Channels S1-S41
UHF BAND Channels 21-69

Receiving Colour and Sound System

PAL BG
PAL SECAM BG
PAL SECAM BG DK
PAL SECAM BG LL'
PAL I

NOTE: Your TV set is produced to receive "one" of this colour and sound systems, which can be changed depending to the countries broadcasting system.

SPECIAL FEATURES :

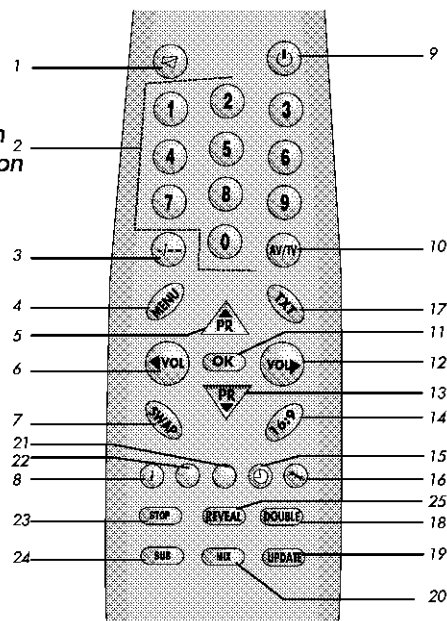
- Your TV set is equipped with an **"On-Screen Display"** system. This system enables the user to see the function on-screen and to control them efficiently.
- 100 Programme Memory.
- Your TV will automatically switch off if it's been programmed from 15 to 120 minutes, and it will automatically switch to Standby five minutes after a channel ceases to transmit.
- **Scart Socket** video cassette recorder, DVD player, VCD player, satellite receiver, video disc player, TV games or a home computer can be connected to this AV (Audio/Video) socket with an appropriate connecting cable.
- AVL
- NTSC video playback with tint control (NTSC 4,43 and 3,58 via scart).
- Infrared Remote control.
- Available for Cable Channels (a decoder maybe required).
- Normalisation system to recall the setting in memory after the colour, contrast, brightness and volume settings have been changed.
- Teletext programmes, national and international text programmes (dependant on model).
- 16:9 picture format selection.
- Menu with 17 languages.
- Swapping between two programmes with single key stroke (SWAP).

REMOTE CONTROL:

1. MUTE button
2. Ten Key Programme button
3. Two digit programme button (-/--)
4. Menu button
5. Programme Up button
6. Volume decrease button
7. Previous Programme selection button (SWAP)
8. Information button (I)
9. STAND-BY button
10. AV-TV Selection button
11. OK button
12. Volume Increase button
13. Programme down button
14. 16:9 picture format button
15. Sleep timer button
16. Normalization button
24. Clock button

For Teletext Functions

15. Yellow fasttext button
16. Blue fasttext button
17. Teletext/TV select button
18. Enlarge button
19. UPDATE button
20. MIX button
21. Green fasttext button
22. Red fasttext button
23. STOP button
24. SUB-PAGE button
25. REVEAL button



3. PREPARATIONS and CONNECTIONS

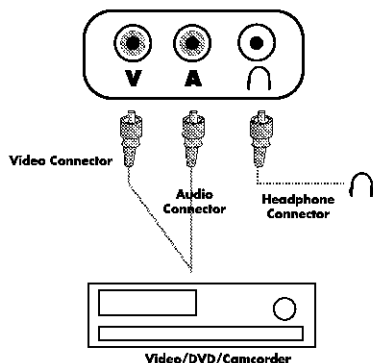
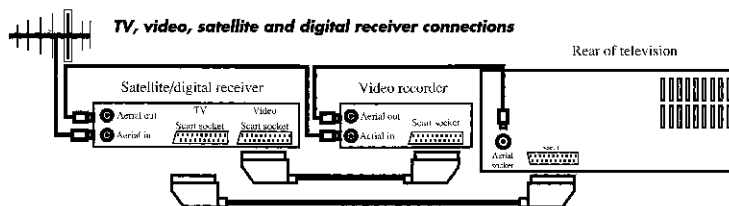


Connect the TV mains plug into your domestic mains socket outlet (230V 50Hz AC.)

To switch on press the TV on/off switch then any numbered button or **PR▲/PR▼** button on the remote handset or **P** button on the control panel.

AERIAL CONNECTION

Using a 75Ω aerial lead connect your TV to the aerial outlet in your home.



External equipment connection through the AV terminals (Optional)

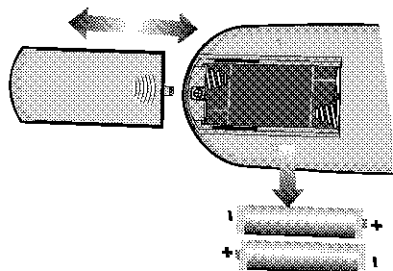
You can connect external equipments such as Video, DVD, Camcorder or Audio equipment through the RCA typ connectors to your TV. Connect the equipment to VIDEO Input and Audio Input for mono equipment as shown on the left side picture. Then push the "AV" button two times and select the "AV2" mode.

Headphone connection

Connect a headphone with a headphone socket, which has an impedance of between 8 and 600 Ohm and is of the 3,5 mm jack type. Insert the plug into the headphone socket.

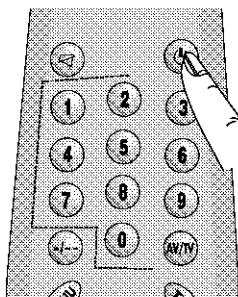
BATTERY FITTING

Remove the slide cover by pulling down from the lines. Install the two AAA size batteries observing the correct polarity and refit the cover.



4. OPERATING YOUR TV

STANDBY

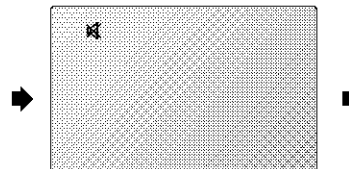
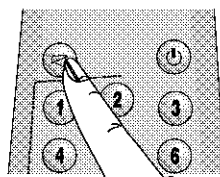


By pushing the red **STANDBY** button on the upper right hand side of your remote control, the television will switch into standby. To turn your TV on again you can press any of the programme buttons on the remote control.

ATTENTION!

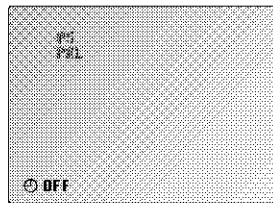
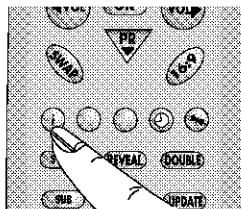
Always switch the television off by the TV ON/OFF switch when leaving the TV unattended.

MUTE



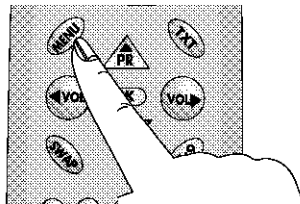
If you want to mute the sound of your TV press the "X" button. A red symbol "X" will appear on the screen. Pressing the "X" again will restore the sound. When your TV is in MUTE mode if you press the **◀VOL** button the volume will decrease without restoring the sound. But if you press the **VOL▶** button the sound will be restored and the volume will increase.

INFO BUTTON



By pressing the "WHITE (i)" button the programme number, colour system and sleep timer will appear on the screen. This will disappear automatically after a few seconds.

MAIN MENU

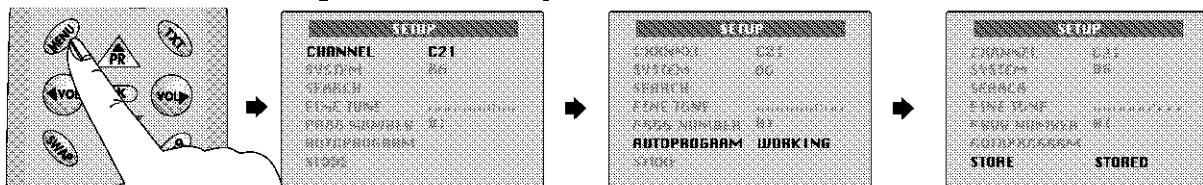


Press menu button the Main adjustments will appear. By pressing the menu button for the first time, PICTURE menu will appear. If you press the button a second time SETUP menu will appear. Pressing a third time FEATURES menu will appear.

TUNING and MEMORY

You can tune the TV either automatically or manually.

1. Automatic tuning and memory :



- Press the **"MENU"** button twice, SETUP menu will appear on the screen.
 - Select the AUTOPROGRAM by pressing **PR▼** button.
 - Press the **"OK"** button. Your TV will start to search for and store programmes. Meanwhile AUTOPROGRAM WORKING sign will flash on and off on the AUTOPROGRAM row.
 - You can follow the tuning progress on the band and search row.
 - After this process has been completed, SETUP menu will disappear and the first stored programme will appear on the screen.
- To optimise reception fine tuning may be required. If so, please refer to the MANUAL FINE TUNE section.
- NOTE:** To exit this mode press the **"MENU"** button on the remote control.

2. Manual tuning and memory:

- Press the **"MENU"** button twice, SETUP menu will appear on the screen.

A. If you know the channel number.

- Then using **PR▲/PR▼** and **◀VOL/VOL▶** buttons select S for cable channels and C for terrestrial broadcast.
- Press **VOL▶** button to select the channel row then enter the channel number using the numeric keys on the remote control.

B. If you don't know the channel number.

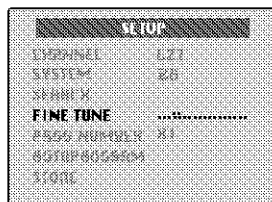
- Select the **"SEARCH"** row by pressing **PR▼** button.
 - Start the searching function by pressing **VOL▶** or **◀VOL** button.
- The searching will stop when a programme has been found. If the quality of the display or the channel is not the one required continue to search by pressing **VOL▶** button

- If you want to store this programme, select the PROG NUMBER row by pressing **PR▼** button.
- Enter the desired programme number by using the TEN key programme buttons or ;
- You can select the programme number by using the **VOL▶** or **◀VOL** buttons.
- Select STORE using the **PR▼** button. Press OK to store. "STORED" will appear on the screen.
- The channel will be stored with the programme number you desired.
- Repeat the above steps until all programmes are restored.

To optimise reception fine tuning may be required. If so, please refer to the MANUAL FINE TUNE section.

NOTE: To exit this mode press the **"MENU"** button on the remote control.

Manual Fine Tune:



It may now be necessary to fine tune your TV to optimise reception if so proceed as follows

- In the SETUP menu select FINE TUNE using **PR▼** button.
- Use the **◀VOL/VOL▶** buttons to obtain the best optimum setting.
- Select STORE using the **PR▼** button.
- Press OK to store. "STORED" will appear on the screen.

Programme Recall:

You can recall any programme by pressing the **PR▲/PR▼** buttons or numeric key pad. When the desired programme has two digits first press **-/--** button and then the two digits of the programme number required.

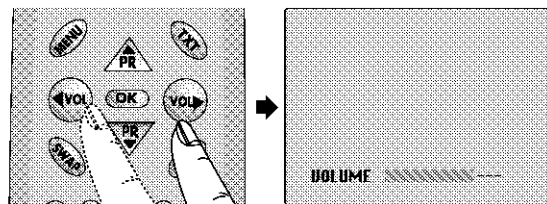
SWAP Function:

You can swap between two programmes with a single key stroke by using the "SWAP" button on the remote control.

This function enables you to select the previous programme number viewed.

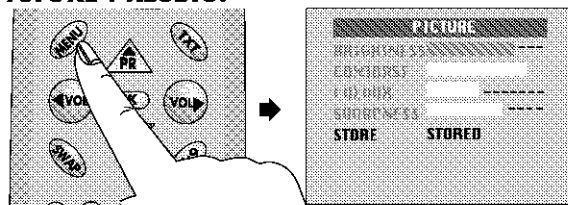
PR 01 ➡ **SWAP** **PR 11** ➡ **SWAP** **PR 01**

SOUND PRESETS



- By pressing the **◀VOL** and **VOL▶** buttons once on your remote or by using the volume + and volume - on the front panel you can change the volume level of your TV.
- NOTE:** The last volume level listened to can be stored with STORE function in PICTURE menu.

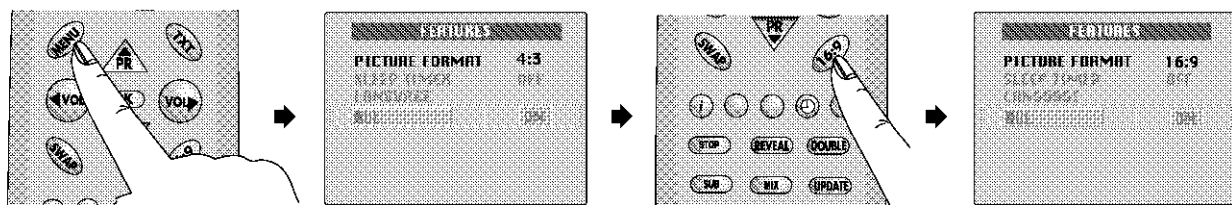
PICTURE PRESETS:



- Press the "MENU" button once on the remote control to access picture presets.
- Select the desired adjustment (BRIGHTNESS, CONTRAST, COLOUR, SHARPNESS) using **PR▲/PR▼** buttons.
- Press the **◀VOL** and **VOL▶** buttons to adjust the setting to your desired level.
- To store the adjustments select the STORE row by using **PR▼** button.
- Press OK button to store. STORED will appear on the screen for a while.

NOTE: Also volume level is stored.

PICTURE FORMAT:



- The picture format of your TV set is 4:3. But some broadcasters supply 16:9 format broadcasts through the satellites. To be able to watch these broadcast in 16:9 Format;

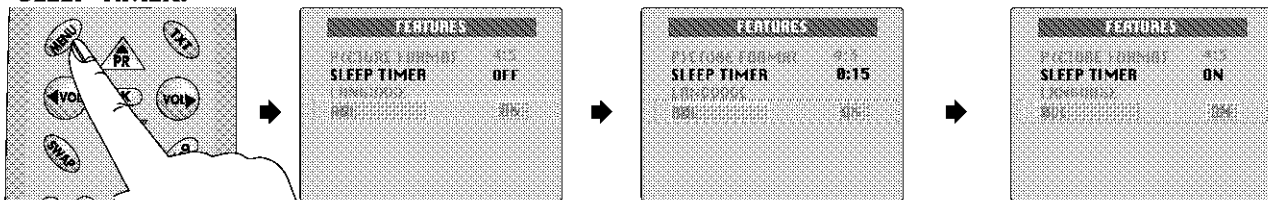
- Select PICTURE FORMAT in the FEATURES menu by pressing **PR** button.

- Choose the desired picture format by using the **◀VOL** or **VOL▶** buttons.

NOTE: You can also use the Picture Format (16:9) button on your remote control to change the format from 4:3 to 16:9 directly.

- "16:9" sign will appear on the lower right side of the screen for a short while.

SLEEP TIMER:



- The sleep timer automatically switches the set to stand-by after the preset time has elapsed. You can select the time from 15 to 120 minutes with 15 minutes steps.


- Press menu button three times to select FEATURES menu.

- Select the SLEEP TIMER in the FEATURES menu by pressing **PR** button.

- Select required time by using **◀VOL** or **VOL▶** buttons.

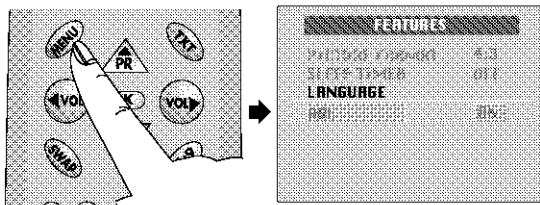
NOTES:

1. The last 30 seconds of the desired switch off time will appear on the upper centre of the screen and begin counting from 29 to zero. When this time interval has elapsed the set will switch to STAND-BY.

2. You can also use the YELLOW () button on your remote control to realise this function. You can increase the switch off time interval by pressing this button repeatedly.

3. To view the remaining sleep time, press WHITE (I) button. To cancel the sleep time select OFF in SLEEP TIMER.

MENU LANGUAGE:



- Press menu button three times to select FEATURES menu.
- Press **PR** button to select LANGUAGE in the FEATURES menu.
- Press OK button. To enter the LANGUAGE menu.
- Select your desired language by using the **PR** / **PR** or **◀VOL/VOL▶** buttons.
- Press OK button again. All the on screen displays will appear in the selected language.
- Press the AV/TV button to return to normal TV viewing.

AVL

(Automatic Volume Limiting) :

- In the SOUND menu, select AVL by using **PR** button. TV transmitters have different sound modulation. When switching from one programme to another some annoying sound level differences can be noticed.
- To avoid this, select ON by pressing **◀VOL** or **VOL▶** button.

NORMALIZATION:

- Whilst watching TV you may change the picture settings. To restore the original picture and volume settings press the **"PP"** button on the remote control.



TELETEXT (Optional)

Teletext is an information and news service available on several programme channels. It enables you to get up to the minute information on such diverse subjects as international events, holidays, shopping or even the local weather for your area. The signal for teletext is combined with the transmitted signal which provides you with your programmes. To get best results for both, we would recommend that an out door aerial is used. Poor reception will cause errors in the text displayed on the screen, ie words missing from sentences or letters missing from words. Even with good reception some errors can occur, however, these should correct themselves within a few seconds. Such errors or word corruptions usually indicate a reception fault rather than a fault with your television. If the channel has no Teletext "NO TEXT" sign will appear on the screen and will disappear automatically after 5 seconds.

Using the TELETEXT function

Press the **TEXT** button on the handset. This will change the picture mode to TELETEXT. Ensure that the channel you are on broadcast Teletext. When the **TEXT** button is pressed it will revert back to picture mode.

Page Selection

Enter the three digit page number of your choice using the programme key buttons. The selected page number will appear in the top left of the header page. If you want to select the next page use the **PR** button. To select the previous page use the **PR** button.

MIX

With Teletext displayed press this button once to mix the text and picture information, press again to return to full teletext page. While you are using the "**MIX**" function, you can return to the TV mode only by pressing the "**TEXT**" button.

UPDATE

While the TV is searching for the selected page press this button once to enter update mode. This allows you to clear the text and return to a TV programme. When the page is located the TV will display the page number it is searching for. When the page is located press the **UPDATE** button again to return to the page you required.

Whenever an updated newflash is available, the updated news item will appear over the normal TV programme. Press the **UPDATE** button twice to make the news information disappear.

To return to the normal TV picture press the **TEXT** button.

SUB (Sub page button)

Some text pages have extension or sub-pages containing additional information. You can press **SUB** button to select the sub-pages; on the lowest line sub - page number will appear next to main page number.

These can be viewed by keying in the four digit number using the numeric keypad. Press the **SUB** button to return to the main-page.

Clock function

A real time clock is transmitted constantly whilst the channel is being broadcast which can be displayed. You can press the **SUB** button to see the real time in the top right of the header page, while watching the TV channel.

DOUBLE (Enlarge button)

This will expand the top and bottom of the page to double height when repeatedly pressed. If you press the **DOUBLE** button for the third time you can return to normal page size.

Reveal button

Sometimes a teletext page contains concealed information, for example, in a quiz or puzzle. To Display the concealed information press this button.

HOLD (Stop button)

This button allows you to "**HOLD**" certain pages of Teletext information if a teletext page consists of 2 or more sub pages and shows them in a circle. Press again to cancel "**HOLD**" and to proceed to the next page.

Fastext

Colour coded buttons are employed for **FASTEXT**. When teletext is selected several subject titles will appear at the bottom of the screen in coloured form. By pressing one of the four colour coded buttons you will go directly to that particular page without having to select the page using the numeric pad.

5. SERVICE TIPS

BEFORE CALLING FOR SERVICE
HAVE YOU CHECKED (✓) THE
FOLLOWING CHART ON SYMPTOMS
AND SOLUTIONS?

Symptoms	Solutions										
	Check if on/off switch is "on"	Try a different channel, if OK, probably station trouble	Check aerial connections on back of set	Check aerial for broken wires	Re orientate aerial	Probably local interference, such as an appliance	Adjust fine tuning control	Adjust brightness control	Adjust contrast control	Check if station is broadcasting colour	Adjust colour control
No picture, no sound	✓	✓	✓	✓		✓					
Poor sound, picture OK		✓		✓		✓					
Poor Picture, sound OK		✓	✓	✓	✓	✓	✓				
Weak picture		✓	✓	✓	✓	✓					
Blurred picture		✓		✓		✓					
Double image		✓	✓	✓		✓					
Lines in picture		✓		✓	✓	✓					
Distorted picture		✓		✓	✓	✓					
Weak reception on some channels		✓	✓	✓	✓	✓					
Horizontal bars			✓	✓	✓	✓					
Picture rolls vertically		✓		✓	✓						
Poor colour		✓	✓	✓	✓	✓	✓	✓		✓	
No colour		✓	✓	✓	✓	✓			✓	✓	
Remote control not working											✓
TV does not accept any command											✓
Teletext rolling up/down											✓