

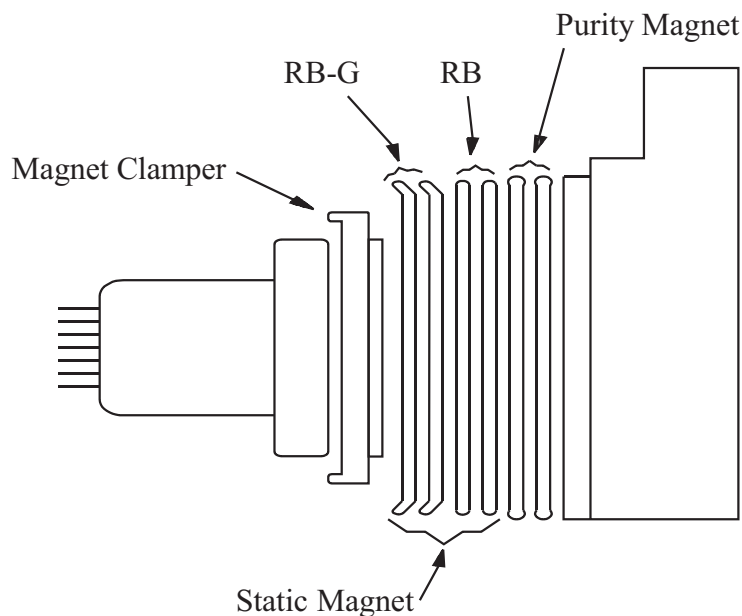
# Purity and Convergence Adjustment

## COLOR PURITY ADJUSTMENT

- (1) Before color purity adjustment, warm up the TV set over 15 minutes and fully degauss.
- (2) Receive pure white signal in AV status and set the TV receiver dynamic.
- (3) Go to factory mod MENU2. After write down the values of R-BIAS and B-BIAS, set the values of R-BIAS and B-BIAS zero.
- (4) Loosen the clamp screw of the deflection yoke and pull the deflection yoke towards color purity Magnetic loop.
- (5) Adjust color purity magnetic loop to make the green area at the center of CRT screen.
- (6) Slowly push the deflection yoke toward the front of CRT and set it where a uniform green field is Obtained. Tighten the clamp screw of the deflection yoke.
- (7) Restore the values of R-BIAS, G-BIAS AND B-BIAS.

## CONVERGENCE ADJUSTMENT

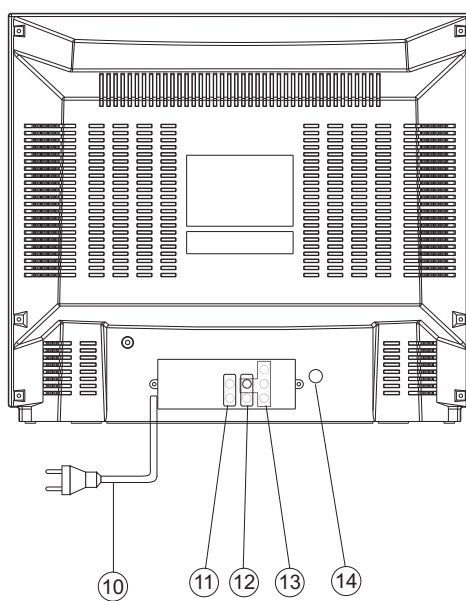
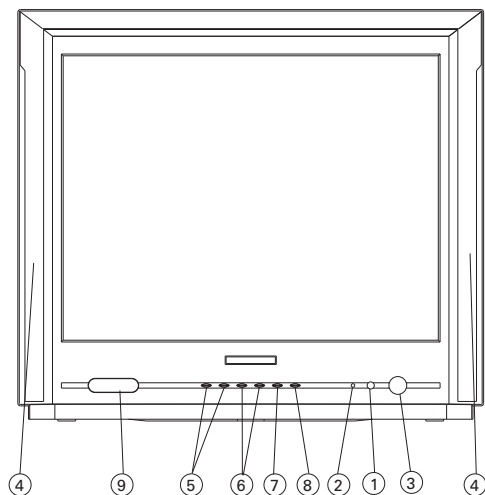
- (1) Receive a dotted pattern. Set the TV receiver dynamic.
- (2) Loose the convergence magnet clamperrrr and align red with blu dots at the center of the screen by rotating(R,B) static convergence magnets.
- (3) Align Red/Blue with green dots at the center of the screen by rotating(RB-G) static convergence magnet.
- (4) Remove the DY wedges and slightly tilt the deflection yoke horizontally and vertically to obtain the good



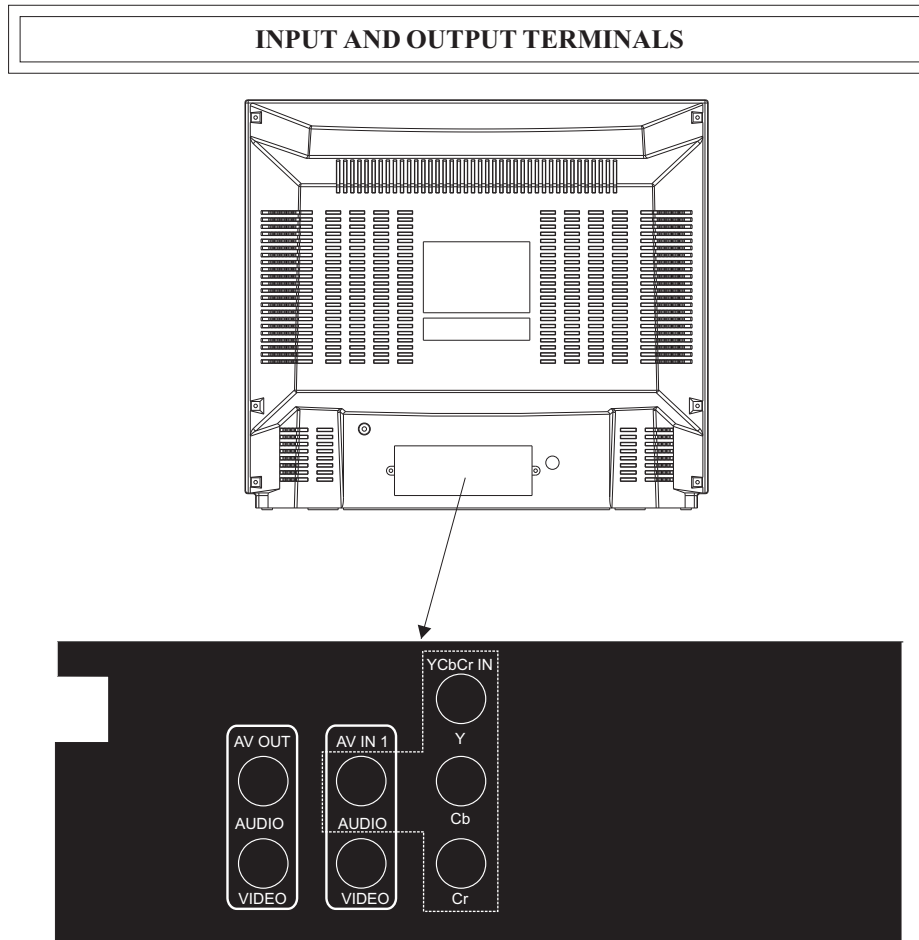
# Control Location

## CONTROL LOCATION

1. Remote Sensor
2. Power Indicator
3. Main Switch
4. Speakers
5. Program Down & Up Button
6. Volume Down & Up Button
7. Menu Button
8. AV/TV Button
9. Front AV In (Option)
10. AC Power Cord
11. AV Out
12. AV In1
13. YUV(Y, Cb, Cr) In
14. Antenna Input Socket (75 Ohm)



# Input and Output Terminals



## NOTE

For Australia only - Install an external aerial conforming to AS 1417.1 for safety purpose.

## Precautions when connecting to other equipment

When using external equipment with this TV set, please read the instruction manual for the external equipment.

Switch off all power supplies to the equipment and TV set before connection.


Always ensure that the input and output terminals are correctly connected.

# Operation Instructions

## OPERATION INSTRUCTIONS

WARNING: The main power switch (No.1 of the control location page ) is the manually operated mechanical switch . The remote control can not cut off power supply to the TV set. For safety purpose, push main switch to the OFF position and make sure the power indicator go out when not use for long time. Push the power "ON/OFF" switch to the ON position, and then power indicator will light up, the picture(or blue screen) will appear within a few seconds.

### MENU BUTTON

1.Press this button to select PICTURE 



2.After entering into each menu, you can select submenu which you will adjust with PROG. +/- Buttons or (GREEN)/BLUE buttons. Then you can adjust it with VOL. +/- Buttons or the +(RED)/-(YELLOW).

### **Picture Button**

PICTURE	
BRIGHTNESS	25
CONTRAST	25
COLOUR	25
SHARPNESS	25
HUE	0
BLACK STRETCH	OFF

1.You can select the CONTRAST.BRIGHTNESS.COLOUR.SHARPNESS.HUE. BLACK STRETCH item by pressing PROG+/- buttons or (GREEN) / (BLUE) buttons.

2.You can adjust the CONTRAST.BRIGHTNESS.COLOUR.SHARPNESS.HUE. item by press VOL +/- buttons or (RED) / (YELLOW) buttons.

3.You can set the BLACK STRETCH.COMB FILTER item ON or OFF by pressing VOL +/- buttons or (RED) / (YELLOW) buttons.

\*HUE is displayed only for NTSC system.

# Operation Instructions

## OPERATION INSTRUCTIONS

### TIMERS

TIME	
CLOCK	--:--
ON TIME	--:--
ON PROG	1
OFF TIME	--:--
SLEEP TIMER	20
REMIND TIME	--:--
REMIND PROG	1

#### 1.CLOCK

Select hour or minute with PROG +/- buttons or (GREEN) / (BLUE) buttons

Adjust CLOCK time with VOL +/- buttons or (RED) / (YELLOW) buttons  
You can press CLOCK buttons to display currently clock time.

#### 2.ON TIME

Select hour or minute with PROG +/- buttons or (GREEN) / (BLUE) buttons.

Adjust ON TIME with Vol +/- buttons (RED) / (YELLOW) buttons.

#### 3.ON PROG.

Select ON PROGRAM with VOL+ or (RED) buttons.

#### 4.OFF TIMER

Select hour or minute with PROG +/- buttons or (GREEN) / (BLUE) buttons.

Adjust REMIND time with VOL +/- buttons or (RED) / (YELLOW) buttons.

#### 5.SLEEP TIMER

Set SLEEP TIME with VOL +/- buttons or (RED) / (YELLOW) buttons.

#### 6.REMINDER TIMER

Select hour or minute with PROG +/- buttons or (GREEN) / (BLUE) buttons.

Adjust REMIND TIME with VOL +/- buttons or (RED) / (YELLOW) buttons.

#### 7.REMIND PROG

Select REMIND PROGRAM with VOL +/- buttons or (RED) / (YELLOW) buttons.

\* Timer function need resetting when you switch off the TV set by the main power switch or unplugging the power cord, and which runs normally when by remote control.

### SETUP Button

SETUP	
LANG.	ENGLISH
BACK GROUND	ON
CHILD LOCK	OFF

# Operation Instructions

## OPERATION INSTRUCTIONS

### **TUNE MENU**

TUNE	
COLOUR SYS	AUTO
SOUND SYS	M
BAND	VHF-L
SKIP	OFF
PROGRAM	2
SEARCH	
FINE TUNE	
AUTO SEARCH	

You can select the item by press the PROG+/- buttons or the (GREEN) / (BLUE) buttons, move to the menu you select and then do as follows.

#### 1.COLOUR SYS

Press VOL +/- buttons or (RED) / (YELLOW) buttons to set the colour system.

#### 2.SOUND SYS

Press VOL +/- buttons or (RED) / (YELLOW) buttons to set the sound system.

#### 3.BAND

Press VOL +/- buttons or (RED)/ (YELLOW) buttons. You can select the Band VHF-L, VHF-H or UHF.

▶VHF-L—VHF-H—UHF

#### 4.SKIP

Press VOL +/- buttons or (RED) / (YELLOW) buttons to set skip on or off, when you set skip on, this program will be hidden.

#### 5.PROGRAM

Press VOL +/- buttons or (RED)/ (YELLOW) buttons to set the PROGRAM number.

#### 6.FINE TUNE

For better quality with VOL +/- buttons or (RED) / (YELLOW) buttons.

#### 7.SEARCH

Press VOL +/- buttons or (RED) / (YELLOW) buttons to search for next or previous available program, the set will automatically stop while the signal is received.

#### 8.AUTO SEARCH

Press VOL +/- buttons or (RED)/ (YELLOW) buttons, the TV set will automatically search in 3 bands and store every program.

\*In AV mode, only COLOUR SYS displayed under this menu.

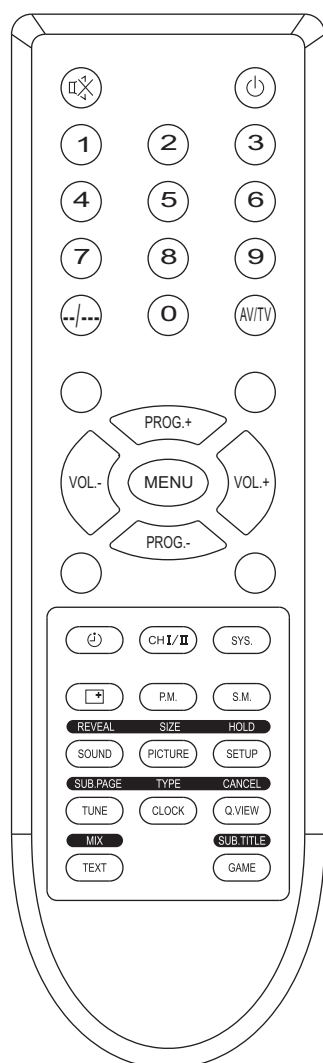
\*After fine tune. The colour of program number will change from GREEN to YELLOW.

### **EXCHANGE MENU**

EXCHANGE	
PROGRAM	1
PROGRAM	1
EXCHANGE	

# Operation Instructions

## LOCATION OF CONTROL (REMOTE HANDSET UNIT)



### STANDBY BUTTON( )

Press this button to turn the TV on/off. Press any Number Button or Program Up/Down Button, picture and sound will appear on within a few seconds.

### SLEEP BUTTON( )

This key is used to set the sleep timer from in 10 minutes step up to three hours. When the preset time runs to 0, the TV set will go into stand by mode.

\*If no program received, the TV set will switch to stand by automatically in 5 minutes.

### SOUND SYSTEM BUTTON (SYS.)

When the sound system is incorrect, press this button to select the correct sound system.

### STEREO/MONO DUAL (CH I/II)

No use.

### PROGRAM UP/DOWN BUTTON (PROG. +/-)

Press the Program Up Button to select the program forwards.

Press the Program Down Button to select the program backwards.

(Use this button for Page Up/Down to increase/decrease page number in TELETEXT mode.)

# Operation Instructions

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## LOCATION OF CONTROL (REMOTE HANDSET UNIT)

### VOLUME UP/DOWN BUTTONS (VOL. +/-)

Press Volume Up/Down Buttons to adjust sound level.

### PROGRAM SELECTION BUTTONS(0-9)

Push the number for your desired program and the program indicator will be displayed on the screen.

Press number key 0-199 for program selection.

Press the number keys to select teletext pages in teletext mode.

### MUTE BUTTON( )

Press once to mute the sound, press again to return to previously set sound level.

### MENU RECALL BUTTON( )

Press this button sequential to recall for the program number, system, logo etc on the screen..

### S.M. BUTTON

No use.

### PICTURE MODE BUTTON(PM.)

Press this button to select the desired picture mode,RICH.USER.SOFT and STANDARD can be selected cyclically.

### DIGIT BUTTON(--/--)

Press this button to select program between 0-199 program.

To select a one-digit number: press "--/--" button to display "--",then press 0-9 to select a number 0-9,or press the number 0-9 directly.

To select a two-digit number: press "--/--" button to display "--".then press 0-9 to select a number 10-99.

To select a three-digit number: press "--/--" button to display "1--".then press 0-9 to select a number 100-199.

### COLOUR BUTTONS(RED/YELLOW/GREEN/BLUE)

In TV mode, the (GREEN)/ (BLUE) buttons has the same function as PROG+/- buttons; the (RED) / (YELLOW) buttons has the same function as VOL +/--button.

In TELETXT mode, press these colour buttons, the color of page no of teletext will change to the same colour as that of the buttons.

\*Picture mode "RICH, SOFT , STANDARD" are fixed by factory all the change of these settings will be saved into the "USER" mode automatically.



# Operation Instructions

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## LOCATION OF CONTROL (REMOTE HANDSET UNIT)(TELETEXT OPTION)

### MENU BUTTON(MENU/INDEX)

In TV mode, this button is used as MENU command; in TELETEXT mode, used as INDEX key.

MENU: To use MENU button for the turning procedure, please refer to page 7-10 for the details.

INDEX: Press INDEX button to obtain the index page.

### AV MODE BUTTON (AV/TV /LANG.)

In TV mode, used as AV command; in TELETEXT mode, used as LANG. key.

AV/TV: Press this button to display external video signal such as VCR or CD video player.

LANG. :Press this button to switch the teletext LANGUAGE such as English or Russian.

### SOUND MENU BUTTON(SOUND/RECALL)

In TV mode, no use; In TELETEXT mode, used as REVEAL key.

RECALL :Sometimes the answers of quizzes, jokes etc are hidden. Press REVEAL button to reveal the hidden information.

### PICTURE MENU BUTTON(PIC./SIZE)

In TV mode, used as PICTURE menu command; in TELETEXT mode, used as SIZE key.

PIC.:Press this button to enter into the PICTURE menu directly.

SIZE: The top or botton half of any page can be enlarged by pressing this button.

### SETUP MENU BUTTON(SETUP/HOLD)

In TV mode, used as SETUP menu command; In TELETEXT mode, used as HOLD key.

SETUP: Press SETUP button to enter into the setup menu directly.

HOLD: Sub-pages will scroll automatically. Press HOLD button a hold a sub-page. To release the page. press HOLD again.

### TUNE MENU BUTTON(TUNE/SUB.PAGE)

In TV mode, used as TUNE menu command; In TELETEXT mode, used as SUB.PAGE key.

TUNE: Press this button to enter into the TUNE menu directly.

SUB.PAGE: Some pages attach sub-page,Page number may contain several subpages which are automatically paged by the TV station. Press this button once.0001 will be displayed on screen, use number key(0-9) to look for other sub-pages if available. If there is no sub-page,\*\*\*\* will be displayed. To cancel this, press this button again.

# Operation Instructions

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## LOCATION OF CONTROL (REMOTE HANDSET UNIT)(TELETEXT OPTION)

### GAME BUTTON(GAME/SUB.TITLE)

In TV mode, used as GAME command; In TELETEXT mode, used as SUB.TITLE key.

GAME: You can play the game on TV. To speed up with PRGO-, transform with PRGO+. Shift left with VOL-, shift right with VOL+.

SUB.TITLE: Press SUB.TITLE button to view the sub-titles.

### CLOCK BUTTON(CLOCK/TYPE)

In TV mode, used as CLOCK command; In TELETEXT mode, used as TYPE key.

CLOCK: Display the time on the top right corner of the screen.

TYPE: Press this button to switch the teletext TYPE such as west/east type.

### TEXT/BUTON(ON/MIX/OFF)

Press this button to display TELETEXT signal, mix TELETEXT page with TV signal and return to TV.

Note: To avoid mixing of External R.G.B while viewing Teletext. Disconnect scart plug or switch off external R.G.B source.

### Q.VIEW BUTTON(Q.VIEW/CANCEL)

In TV mode, used as Q.VIEW command; In TELETEXT mode, used as CANCEL key.

Q.VIEW: Press this button to return to the previously viewed program.

CANCEL: If you want to watch TV but not cancel the TELETEXT mode completely. Press the CANCEL button. When the last selected page is updated, the page number will be appeared at the top of the TV screen. Press the CANNEL button again to reveal the page.

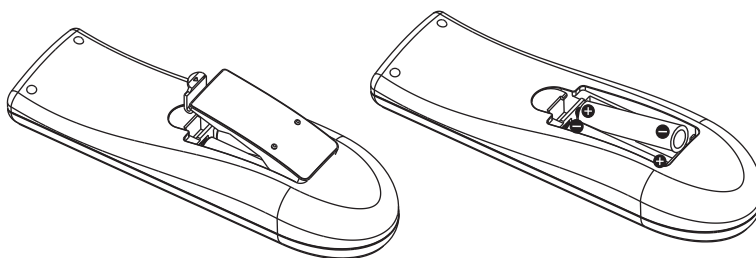
# Operation Instructions

## BATTERY INSTALLATION (REMOTE CONTROL UNIT)

1. Remove the battery cover.
2. Insert the 2 UM4 - AAA 1.5V batteries making sure the polarity (+ or -) of the batteries matches the polarity marks inside the unit.
3. Replace the battery cover.

Replace with new batteries when the TV set begins to show the following symptoms:

Operation is unsteady or erratic. Sometimes the TV set does not function with Remote Control Unit.



Remark:

- 1) Alkaline Batterie Recommended
- 2) Remove batteries when they are exhausted or if the remote control is not to be used for a long time.

## THE CAUSES OF INTERFERENCE

Incorporated in your TV receiver are the most up-to-date devices to eliminate interference. Local radiation however, can create disturbances which visibly affect your picture. Proper installation, a good aerial are your best safe-guards against these disturbances.

### RF INTERFERENCE

Moving ripples across the screen are caused by nearby transmitting or receiving-short-wave radio equipment.

### DIATHERMY

Herringbone pattern and partial picture loss can result from the operation of diathermy equipment from a nearby doctor's surgery or hospital.

### SNOW

Weak TV signals from long distant stations result in an instead picture and give the effect of falling snow. An antenna adjustment or antenna amplifier may be needed.

### GHOST

Multiple image caused by TV signals reflected back from surrounding buildings, hills, aircraft, etc. is minimized by correct aerial positioning.

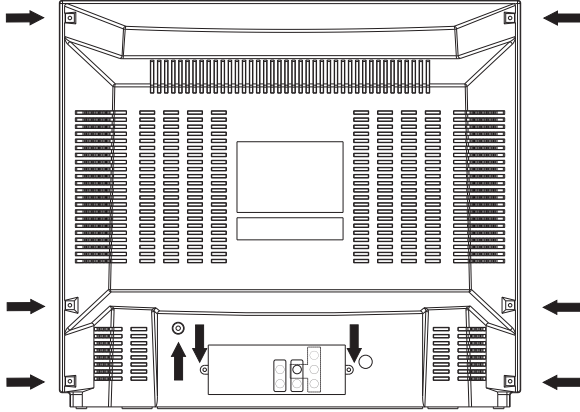
### CAR IGNITION

Nearby cars and electrical motors can cause small streaks across the picture or make the picture roll.

# Mechanical Disassemblies

## CABINET BACK REMOVAL

1. Refer to Figure 1, remove 10 screws.
2. Pull off cabinet back and remove.



## CHASSIS REMOVAL

1. Remove cabinet back.
2. Discharge the picture tube anode (2nd anode lead) to the dag coating (picture tube grounding lead).
3. Disconnect Degaussing coil socket (KE), Picture tube socket, Deflection yoke connector (KDY), Speaker connectors (KL and KR), and 2nd anode lead.
4. Remove chassis completely by sliding it straight back.

## PICTURE TUBE REMOVAL

**CAUTION:** Do not disturb the deflection yoke or magnet assembly on the picture tube Neck. Care must be taken to keep these assemblies intact, unless picture tube is being replaced. Discharge the picture tube to the coating before handling the Tube.

1. Remove chassis, referring to Chassis Removal instructions.
2. Place cabinet front face down on the soft surface.
3. Remove the screw on each corner of the picture tube and GENTLY lift the picture tube out of the cabinet.
4. Install a replacement picture tube in reverse order. Properly install the degaussing coil and picture tube grounding lead on the picture tube. See Figure 2.

*Note: If the Picture Tube is being replaced, mount the Degaussing Coil on the picture tube. See following..*

