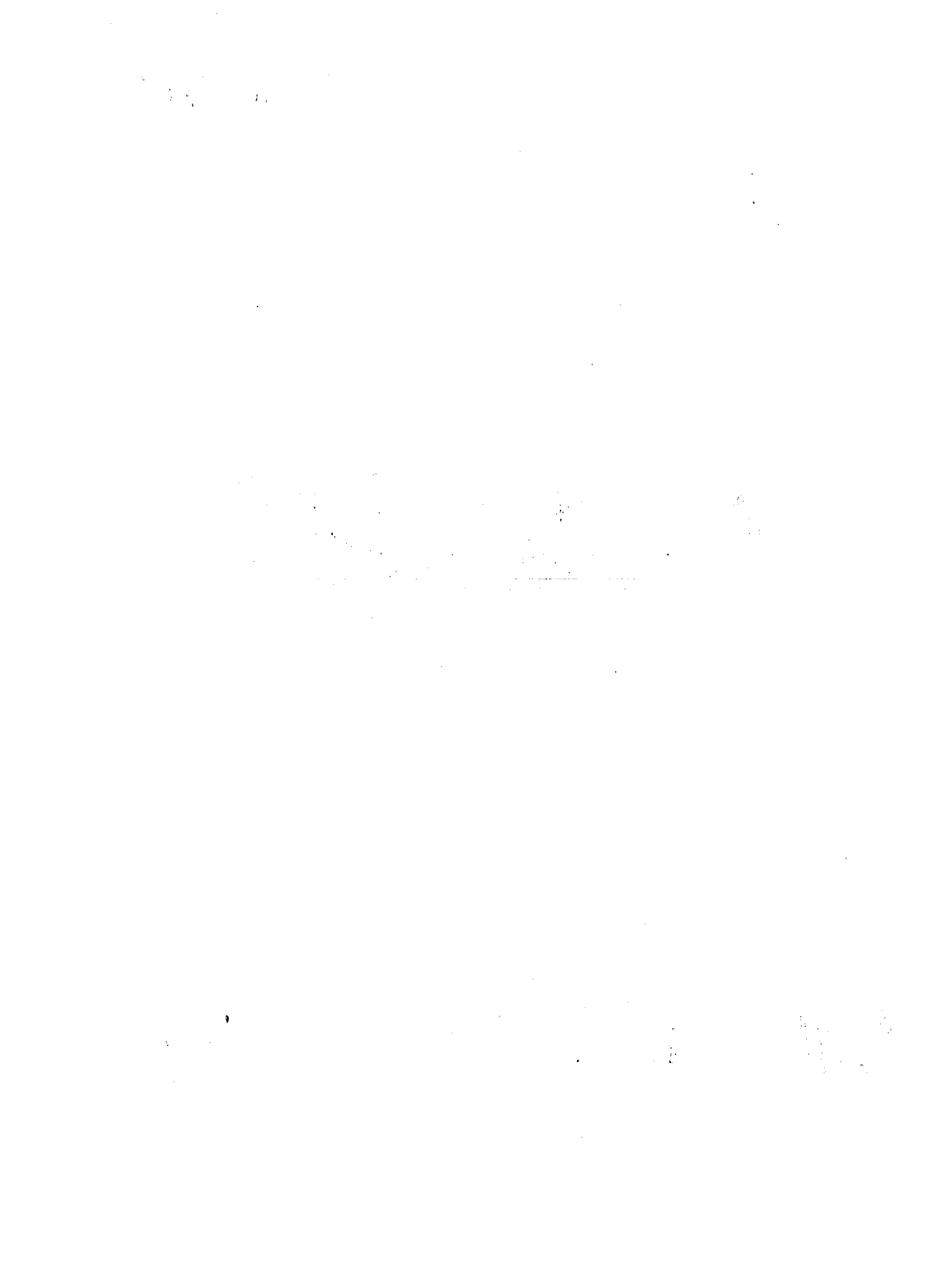


***SANWORLD***

**CTV - 200SW**

**USER'S MANUAL**



## Key Features

- \* 100 PROGRAMMES
- \* AUTO TUNING / INSTALL
- \* OSD (3 COLOUR)
- \* CATV CHANNELS (HYPER BAND)
- \* PICTURE SHARPNESS CONTROL
- \* AUTO/SEARCH/FINE TUNING THROUGH REMOTE CONTROL
- \* SKIP
- \* SWAP
- \* CHILD LOCK
- \* OFF-TIMER UPTO 120 MINUTES IN STEPS OF 15 MINUTES
- \* 24 HOURS ON TIMER
- \* AUDIO MUTE FACILITY
- \* AUTO SHUT OFF
- \* MUSIC MODE
- \* VOLUME LOCK
- \* TUNING LOCK
- \* AV INPUT

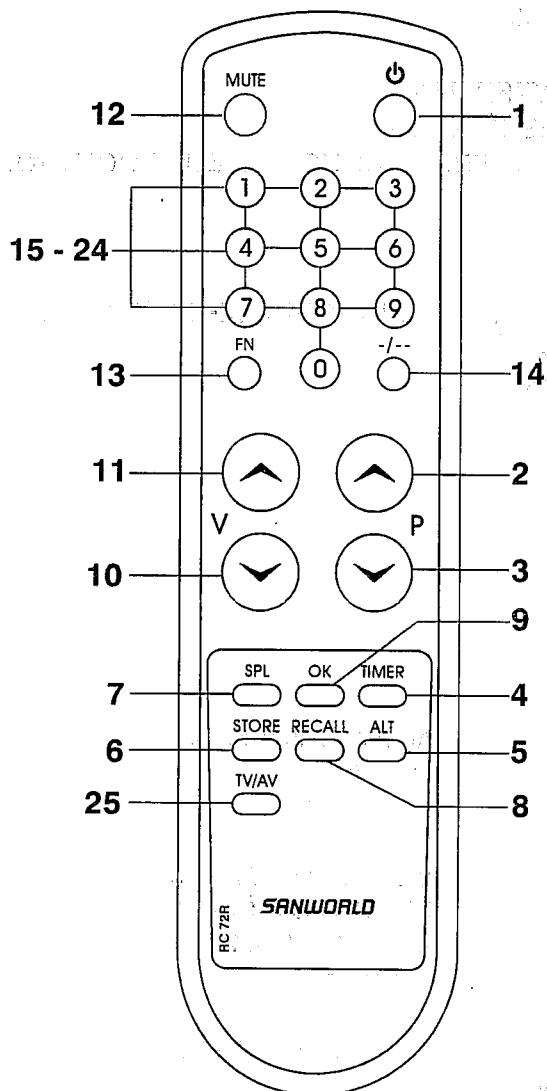
## Specifications

### **CTV - 200SW**

- |                            |  |
|----------------------------|--|
| 1. Power Source            | : AC 230 - 240 V, 50 Hz  |
| 2. Power Consumption       | : 46 Watts   |
| 3. Audio Output            | : 16 W PMPO  |
| 4. Programme number        | : 0 - 99   |
| 5. Channel Selection       | : VHF Channels E2 - E12<br>: UHF Channels 21 - 69<br>: X - Z + 2, S1 - S41 |
| 6. CATV Channels           | : Hyper Band   |
| 7. Aerial Input Impedance  | : 75 Ohms  |
| 8. Picture Tube            | : 36 cms Diagonal, 90 Degs.  |
| Picture Tube Viewable Area | : 34 cms   |
| 9. Television System       | : CCIR B/G   |
| 10. Colour System          | : PAL  |
| 11. Dimensions (W - H - D) | : 360(W) x 330(H) x 390(D)   |
| 12. Weight                 | : 11.0 Kgs Gross<br>: 9.5 Kgs Nett.  |
| 13. Terminal               | : AV IN  |

**Note : SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE**

## Remote control



### NOTE :

**MAINS ON/OFF SWITCH ON THE FRONT PANEL OF THE TV SET SHOULD BE "ON" FOR THE REMOTE CONTROL OPERATION.**

## Placing the TV

- \* Select a position for the TV near a power outlet and if possible, away from direct sunlight or intense room lighting which will tend to reduce the clarity of the picture.
- \* Place the TV on a solid base.
- \* Do not place your television receiver on an unstable cart, stand, shelf or table. Serious injury to an individual and damage to the TV set may result if the TV set falls. The set should not be exposed to dampness or a humid atmosphere as in a kitchen, near bathtub, or a wet basement, sink, etc.
- \* Leave sufficient gap around each side of the TV for proper ventilation.

## Power Connection

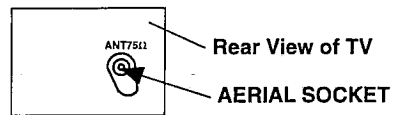
- \* The TV receiver is manufactured to utilize an AC voltage source of 230V, 50 Hz.
- \* Connect the TV set to the main supply socket.

### NOTE:

When the TV is not to be used for an extended period of time, it is advisable to disconnect the AC power cord from the main supply socket.

## Antenna Connection

- \* Connect a cable with a BALUN from UHF (or VHF) aerial to the aerial socket on the cabinet back.
- \* For all aerial circuit problems please consult your local dealer.  
"SNOW" or a weak picture is a result of either a weak signal or an inefficient aerial. Reflection of signals from mountains or tall buildings will cause multiple images or "GHOSTS". These abnormal conditions can be reduced to a minimum by repositioning your aerial or by installing a new one suitable for your area.



## Battery Installation (Remote Control Transmitter)

- \* Remove the battery cover by pressing the latch and sliding in the direction of the arrow.
- \* Install two "AA" OR "AAA" (as indicated in compartment) 1.5 Volts batteries so that "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit.
- \* Close the battery cover.

### NOTE :

1. Replace with new batteries when the TV receiver begins to show the following symptoms.
  - \* Operation is unsteady or erratic.
  - \* TV receiver does not function with the transmitter.
2. Discharged batteries may leak and damage the transmitter.
3. The normal life of batteries should be from 9 – 10 months.
4. To avoid damage from possible battery leakage, remove the batteries for extended unused period.

## To turn on the TV

Press the main ON/OFF power button on the front panel. The power indicator (Red Light) starts glowing which indicates that the set is on.

Note : If the power indicator (Red Light) is already glowing and there is no picture & sound, it means the TV is in standby mode. Press Power key **1** on the remote control. The TV can also be turned 'ON' by pressing PROG+/- button on the TV set or key **2**, **3** / **15** – **24** on the Remote control.

## To turn off the TV

Press the main ON/OFF power button on the front panel. The power indicator (Red Light) stops glowing which indicates that the set is off.

### Note :

1. Press Power key **1** on the remote control to switch the TV to standby mode. However, to cut off the mains power supply completely, Press the mains ON / OFF power button.
2. If the power goes off while watching, please turn off the set using mains ON / OFF button if you are no longer going to watch the TV.

## Programme Selection

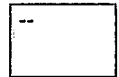
Press the right side (+) of the Programme selector in the TV set and the TV will step up to the next station i.e. 0, 1, 2, ..... 99, 0 ..... Press the left side (-) of the Programme selector in the TV set and the TV will step down to the previous station.

The required station can be selected using keys ② & ③ on the remote control.

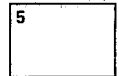
The program number will be displayed on the left top corner of the TV set.

## Direct Programme Selection

The key “-/-” ④ is used to select programme numbers 0 to 9/10 – 99. This key toggles between single and double digit selection.



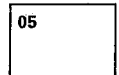
To select programme numbers 0 to 9 in single digit mode, press desired key (0 to 9).



For example to select programme number 5, press key 5.

To select programme numbers 0 to 9 in double digit mode, press key 0 and the desired programme number, within 10 seconds.

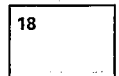
For example to select programme number 5, press key 0 and then press key 5.



To select programmes 10 to 99 always select double digit entry.

Enter the desired keys within 10 seconds.

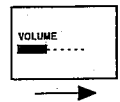
For example to select programme number 18, press key 1 and then press key 8.



## Volume Selection

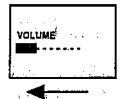
Press the VOL + button on the front panel of the TV set or on the remote control key ⑪ to increase the volume.

The display will be increasing as shown.



Press the VOL- button on the front panel of the TV set or on the remote control key ⑩ to decrease the volume.

The display will be decreasing as shown.



## Tuning

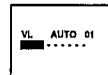
You can store up to 100 telecast stations in your reception area. There are 3 ways of presetting viz. Auto tuning, Search tuning & Manual tuning. Tuning can be done either through Remote control or through the front panel of the TV set.

### INSTALL (Auto Tuning)

All receivable channels are automatically tuned in and memorised in consecutive programme positions. After Auto Tuning the levels of Volume, Brightness, Colour, Contrast & Sharpness are automatically set to viewing level.

Press INS button on the front panel of the TV set.

The screen display will be as shown in the figure.  
The colour of 'AUTO' changes from red to green for every programme number tuned indicating that the programme is memorised.



The channels are preset in consecutive positions beginning from the programme position '1'. After all available channels have been preset, the unit returns to position 1.

#### Note :

Install may sometimes

(1) Skip the weak signals

(2) Tune to ghosts due to reflections from adjacent buildings and improper cable joints.

Manual Tuning is advised only under such conditions.

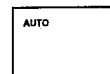
### Automatic Presetting

All receivable channels are automatically tuned and memorised in consecutive programme positions.

#### • Step 1

Press SPL button **7** once.

The screen display will be as shown in the figure

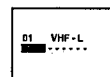


#### Note :

If no respective keys are pressed for more than 5 seconds, the set will come out of Tuning menu.

#### • Step 2

Press OK button **9** for Auto tuning.



The channels are preset in consecutive positions beginning from the programme position '1'. After all available channels have been preset, the unit returns to position 1.

\*Note : Auto Tuning may sometimes

(1) Skip the weak signals

(2) Tune to ghosts due to reflections from adjacent buildings and improper cable joints.

Other way of presetting viz. Search tuning & Manual tuning (described in page no. 6 to 7) is advised only under such conditions.

## Search Tuning

- Step 1  
Press SPL button **7** twice.

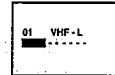
The screen display will be as shown in figure



- Step 2  
Press & Hold OK button **9** for 3 seconds to change the bands if required or go to step-3.

The set toggles between VHF-L, VHF-H & UHF bands. To select the required band, release the OK button.

The screen display will be as shown in the figure.

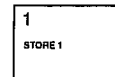


- Step 3  
Press OK button **9** for Search tuning.

After the station is tuned the TV set comes out of Search tuning mode.

- Step 4  
Press STORE button **6** to memorise the programme.

The screen display will be as shown in the figure  
STORE display will be in red colour.



Select the desired programme number where the programme is to be stored either through Remote control or from the front panel of the TV set.

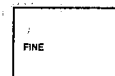
- Step 5  
Press STORE button **6** again to memorise the programme.

STORE display changes to green colour, indicating that the programme is memorised.

## Manual Tuning

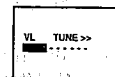
- Step 1  
Press SPL button **7** thrice to Manual tune.

The screen display will be as shown in the figure.



- Step 2  
Press OK button **9** to enter the Manual tuning mode.

The screen display will be as shown in the figure.

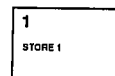


- Step 3  
Press & Hold VOL+ button **11** or VOL- button **10** till the desired station appears.

The direction of arrow on display indicates the direction of tuning.

- Step 4  
Press STORE button **6** to memorise the programme.

The screen display will be as shown in the figure.  
STORE will be in red colour.





Select the desired programme number where the programme is to be stored either through Remote control or from the front panel of the TV set.

- Step 5

Press STORE button **6** again to memorise the programme.

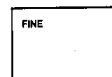
STORE display changes to green colour, indicating that the programme is memorised.

## Fine Tuning

Normally fine tuning is not required for the TV set. However in some cases (such as radio interference) picture may become more clear by de-tuning from the best tuned position.

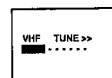
Select the station to be fine tuned press SPL button **7** thrice to Fine tune.

The screen display will be as shown in the figure.



Press OK button **9** to enter the Fine tuning mode.

The screen display will be as shown in the figure.



Press VOL + button **11** or VOL- button **10** intermittently till the station becomes clear. The direction of arrow on display indicates the direction of the tuning.

## Advanced set up

After the initial set up, the following description enumerates steps for activating some of the Functions.

### **Programme Skip**

This is resorted to :

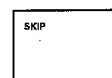
- (i) Skip the Untuned (Blank) Channel.
- (ii) Skip the Image of partially tuned Channels (if any)
- (iii) Skip certain tuned, but Unwanted Channels

Select the programme number to be skipped.

- Step 1

Press SPL button **7** repeatedly until SKIP is displayed.

The screen display will be as shown in figure.



- Step 2

Press OK button **9** till the display of the programme number changes red. This indicates that the programme is skipped.

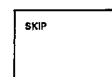
### **To release a skipped channel**

Select the programme number to be unskipped through remote control (Direct selection only)

- Step 1

Press SPL button **7** repeatedly until SKIP is displayed.

The screen display will be as shown in the figure.



- Step 2

Press OK button **9** till the display of the programme number changes green.

This indicates that the programme is skipped.

## Memory Copy

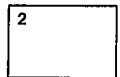
This feature allows you to copy channel (From one Programme number to another)

For example, if you wish to copy the channel in the programme position 2 into the programme position 6, follow these steps.

- Step 1

Select programme position 2 either from the remote control or from the TV set.

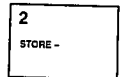
The screen display will be as shown in the figure.



- Step 2

Press STORE key **6**.

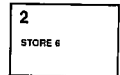
The screen display will be as shown in the figure.



- Step 3

Select programme position 6 either from the remote control or from the TV set.

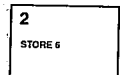
The screen display will be as shown in the figure.  
STORE is displayed in red colour.



- Step 4

Press STORE key **6** again.

The screen display will be as shown in the figure.  
The display of STORE will be changed to green indicating that the programme 2 is also copied in programme number 6.

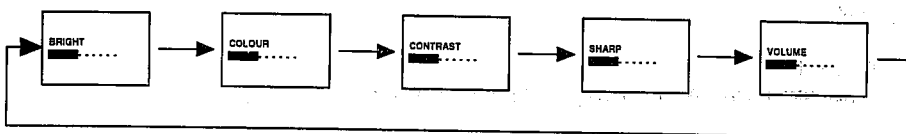


## Picture and Sound Adjustments

- Step 1

Select the desired function by pressing FN key **13** on the Remote control or press FN button on the front panel of the TV set.

Everytime this key is pressed, the Functions change sequentially as shown in the figure.



**Bright** : This control is used to vary the brightness of the picture.

**Colour** : This control is used to vary colour of the picture.

**Contrast** : This control is used to vary contrast of the picture.

**Sharp** : This control is used to vary sharpness of the picture.

**Volume** : This control is used to vary the level of sound.

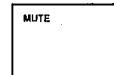
• Step 2

To increase or decrease the levels of the selected function, press VOL+ button or VOL- button on the front panel of the TV set or on the Remote control (Keys 11 & 10).

## Sound Mute

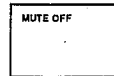
If you want to mute the sound (i.e. While talking on the telephone) Press MUTE key 12 on the Remote control.

The screen display will be as shown in the figure.



Press MUTE key 12 again to come out of mute condition (see note).

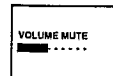
The screen display will be as shown in the figure.



Note :

VOL + key 11 can also be pressed to come out of mute. The volume will increase from minimum level. However, if VOL- key 10 is pressed in mute condition, the volume setting will decrease, but the set will not come out of mute.

The screen display will be as shown in the figure.



## Special functions

### **Child Lock**

This Function is used to restrict the Viewing of Programme Positions that you do not want others to watch.

\* Any programme Position can be Locked.

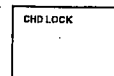
### **To Lock a Programme Position**

Select the desired Programme number to be locked from viewing from Remote control or PROG +/- buttons on the front panel of the TV set.

• Step 1

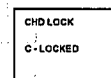
Press SPL button 7 continuously until "CHDLOCK" appears on the screen.

The screen display will be as shown in figure.

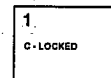


- Step 2  
Press OK button **9** to lock the Programme.

The screen display will be as shown in figure



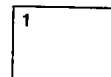
The locking procedure is now completed. Whenever the locked programme number is selected, the screen display will be as shown in the figure.



**To unlock a Programme Position**

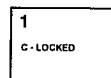
Select the locked Programme number by pressing buttons from Remote control or PROG +/- buttons on the front panel of the TV set.

The screen display will be as shown in figure.



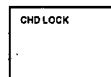
- Step 1  
Press SPL button **7** continuously until "CHD LOCK" appears on the screen.

The screen display be as shown in figure.

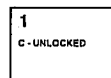


- Step 2  
Press OK button **9** to unlock the Programme.

The screen display will be as shown in figure.



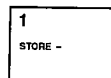
The programme can be viewed now although it is not completely unlocked. But when the Programme Position is changed, it again goes into Child lock mode. To unlock completely, follow steps 3 & 4.



- Step 3  
Press STORE button **6**

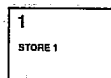
The screen display will be as shown in figure.

STORE will be in Red colour.



- Step 4  
Select locked program no. from the remote control or on the TV set.

The screen display will be as shown in figure.

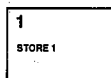


- Step 5  
Press STORE button **6** again.

The screen display will be as shown in figure.

STORE will be in Green colour.

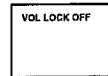
Now the Programme position is unlocked completely.



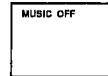
## Music Mode

In this mode video is blanked from program 91-0 and only audio is enabled. To enable this mode :

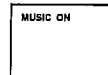
1. Press "STORE" key **6** continuously until the display changes to as shown in figure.



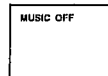
2. Press "FN" key **13** until the display changes to as shown in figure.



3. Press "OK" key **9** to enable music mode. The screen display will be as shown in the figure.



To disable Music Mode the above procedure has to be repeated. The display changes to as shown in the figure.

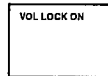
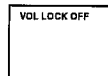


## Volume Lock

The maximum level of volume variation can be set by this Lock.

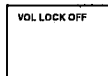
To enable Volume Lock :

1. Vary volume to desired level.
2. Press "STORE" key **6** continuously until the display changes to as shown in figure.
3. Press "OK" key **9** to enable volume lock. The screen display changes as shown in the figure.



Now the maximum level of volume variation is set. The level of volume cannot be increased beyond this level but the level can be decreased. The display colour changes to Red when the maximum level is reached.

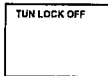
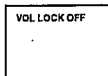
To disable "VOL LOCK" repeat step 2 & 3. The display changes to as shown in Figure.



## Tuning Lock

In this mode, tuning operation is disabled, any unauthorised tuning can be controlled. To enable this mode

1. Press "STORE" key **6** continuously until the display changes to as shown in figure.
2. Press "FN" key **13** until "TUN LOCK OFF" is displayed on the screen.



3. Press "OK" key **9** to enable TUNING LOCK



Now, Auto, Search, Fine and install tuning are disabled:

To disable Tuning Lock – repeat the above steps. The display changes to as shown in Figure.



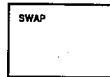
## Swap

If automatic tuning is used, the TV stations stored under the programme numbers may not be of your preference. You can make use of 'SWAP' feature to rearrange the TV stations according to your preference.

For example if programmes 5 & 7 have to be swapped, select programme number 5.

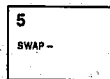
- Step 1  
Press SPL button **7** repeatedly until SWAP is displayed.

The screen display will be as shown in the figure



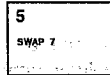
- Step 2  
Press OK button **9**

The screen display will be as shown in figure



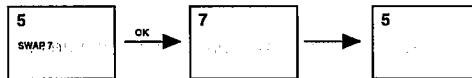
- Step 3  
Enter programme number '07' either from Remote or from the front panel of the TV set.

The screen display will be as shown in figure.



- Step 4  
Press OK button **9** again.

The screen display changes sequentially as follows :



The swapping operation is now completed. Now the programme 7 can be viewed at programme 5 and vice versa.

### Note :

Locked programmes cannot be swapped.

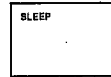
# Timer Functions

## Timer Settings

### SLEEP – Timer setting :

After a fixed time has elapsed, the set goes to the Stand-by mode. The Sleep-Timer setting can be done for a maximum of 120 minutes in steps of 15 minutes.

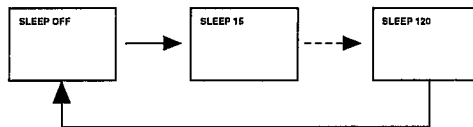
- Step 1  
Press button 4 to enter sleep mode.



The Screen Display will be as shown in the figure.

- Step 2  
Press OK button 9 to set the Sleep-Time. Everytime this button is pressed, the Sleep-Time changes in steps of 15 minutes.

The screen display will be as shown below :



### Note :

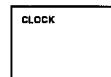
1. The setting will be cancelled if the power is switched off by using Power button on the TV set or in case of power failure.
2. If sleep timer is already enabled, then when you press SLEEP button, first it will show the remaining time.

### Real Time Clock

24 Hours Clock can be set.

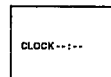
- Step 1  
Press button 4 twice to enter clock mode.

The screen display will be as shown in the figure.



- Step 2  
Press OK button 9 to set the Clock.

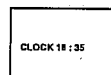
The screen display will be as shown in the figure.



- Step 3  
Enter the time using direct keys 0–9 on Remote.  
For example : To set time at 18:35

Enter 1, 8, 3 & 5 continuously only from Remote.

The screen display will be as shown in figure.  
Now the clock is set at 18:35.



**Note :**

1. The CLOCK will be reset each time the TV is switched OFF. It has to be set when the TV is switched ON.
2. CLOCK setting will be cancelled if the mains power is switched OFF or in the case of power failure.
3. The CLOCK counting is approximate for long periods of time.

**On-Timer setting**

This function enables to set the On time of the TV to any programme position. On-Timer setting has to be attempted after setting the real time clock.

• Step 1

Press button 4 thrice to enter on-timer mode.

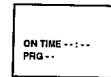
The screen display will be as shown in the figure.



• Step 2

Press OK button 9 to set the on-time.

The screen display will be as shown in the figure.



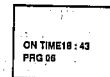
• Step 3

Enter the time and programme number using direct keys 0-9 on Remote control.

For example : To set on-time to 18:43 to programme number 6.

Enter 1, 8, 4, 3, 0 & 6 continuously from Remote.

The screen display will be as shown the figure.



Now the on-time is set to 18:43 for programme position 6.

**Note :**

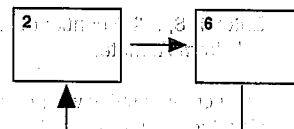
1. If any tuned programme is being watched, and on-time is set as in step-3. After the on time reaches 18:43, the set goes to programme 6.
2. If the set is in stand-by mode & the on-time is set as in step-3. After the on time reaches 18:43, the set switches on to programme 6 directly.
3. The setting will be cancelled if the power is switched off by using power button on the TV set and during power failure.
4. The setting gets cancelled after one cycle of On-timer operation.

## **Other Functions**

### **Alt (Alternate)**

This button is used to select the previous channel and the present channel.

- \* For example, you are watching channel 6 and your previous channel was channel 2, by pressing ALT button 5 the screen changes to channel 2. Pressing ALT button 5 again, screen will change to channel 6.

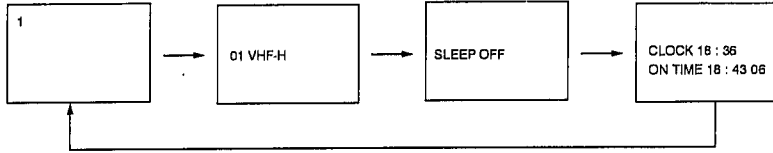




## Recall

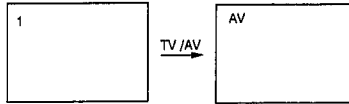
This button can be used to indicate the present status of the TV set, like band, sleep-timer, clock & on time & Programme on screen.

- \* By pressing RECALL button **8** on the Remote control, the screen changes sequentially as shown.



## TV / AV Selector

The TV can be set to AUDIO / VIDEO mode by pressing button **25** and you can enjoy playback from a VCR or other AV equipment.



## Connection of AV Equipment

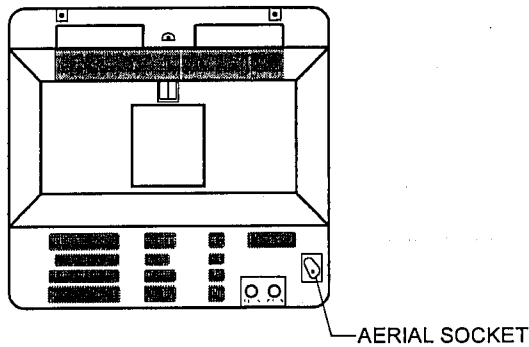
### Video In / Audio In

- \* Connect the Video and Audio outputs of a VCR to the AV input jacks of the set.
- \* If the audio signal from the VCR is stereo, be sure to connect the left side to the AUDIO IN terminal.
- \* To watch the VIDEO IN picture select AV mode by pressing the button **25**
- \* Video input signal should be 1 V ( peak to peak)



## VCR Connection

- \* Connect RF out of VCR to Aerial Socket of TV. Tune TV to RF Channel frequency of VCR.



## GENERAL INFORMATION

This unit has been engineered and manufactured to assure your personal safety and also will provide quality picture and sound for your enjoyment. In order not to defeat the safeguards incorporated in this receiver, please observe the following basic rules for its installation, operation and maintenance.

**IMPORTANT : Switch off your TV overnight via the power ON / OFF button; energy can be saved and the picture tube will be demagnetized for supporting good picture quality.**

**Do not shift or move the TV set around, when the set is in on condition. There are chances of developing unevenness in colour, in some portion of the screen.**

**Disconnect mains plug and antenna when there is a lightning storm.**

### Safety Precaution :

When the TV receiver is not to be used for extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.

### Warning :

- \* To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- \* High voltages are used in this TV set.
- \* **Do not remove the back cover of your TV set. High voltage & Mains voltage are present. Please refer servicing to qualified service personnel.**

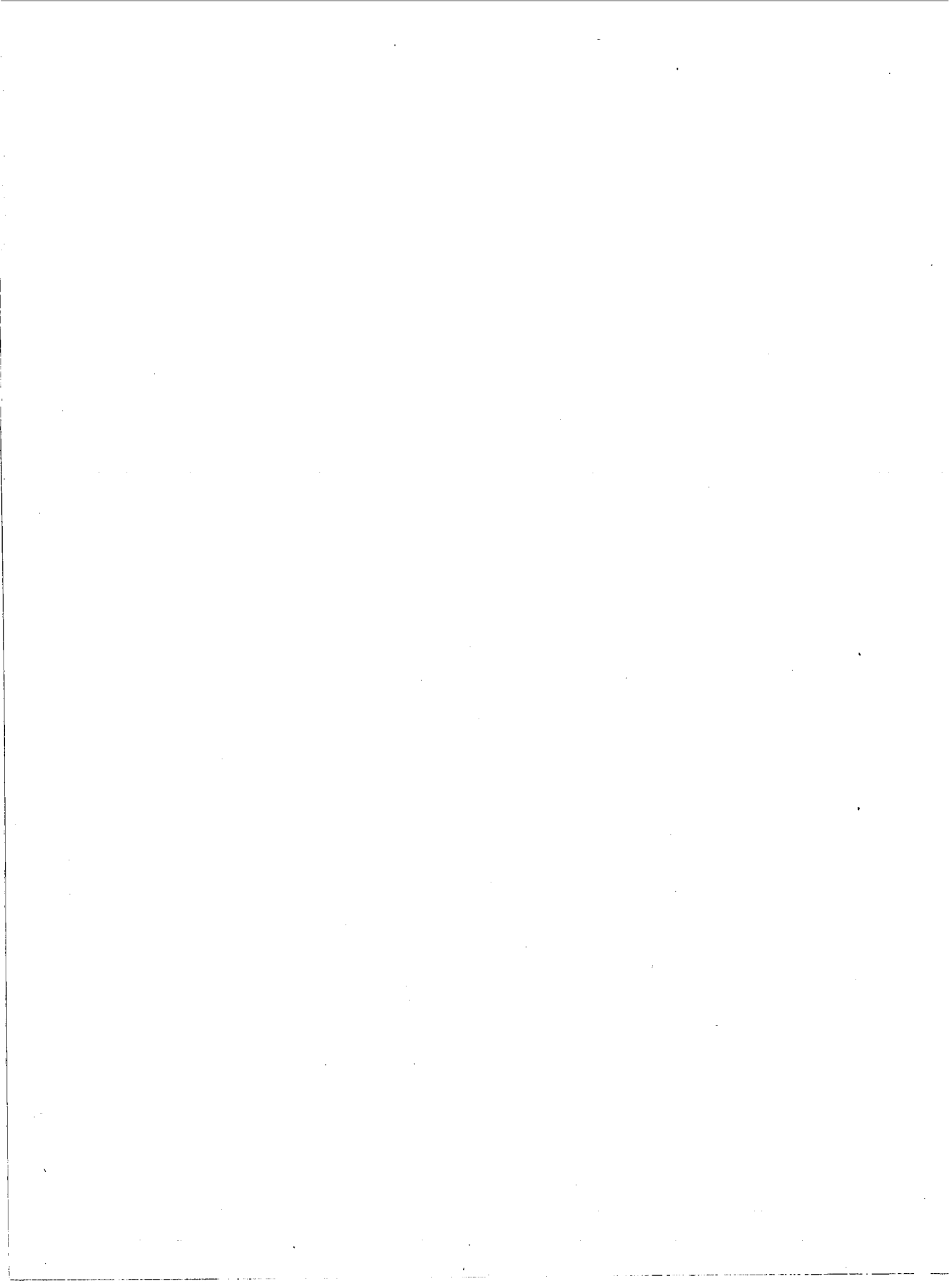
### **Preliminary Trouble Shooting**

Before initiating a service call, please check the receiver as per the following chart.

- \* No power
  - Check if TV is plugged in power socket.
  - Power is on or available at the outlet.
- \* No Picture
  - Check antenna connection at the rear of the TV.
  - Possible TV station trouble. Try another channel.
  - Increase the contrast setting first and then the brightness setting.
- \* Poor Picture, Sound OK
  - Adjust picture controls.
- \* No Colour, Picture OK
  - Adjust colour control.
  - Check whether the programme is in colour.
- \* Weak Picture
  - Check antenna connections.
  - Check antenna cable for broken wires.
  - Re-orient antenna.
- \* TV not responding to Remote Control
  - Check whether the batteries are flat. Replace batteries if necessary.
  - Clean the Remote Control sensor lens on the TV set.
  - Check whether any obstruction between TV and Remote Control handset.
  - Check whether distance between the TV set and Remote Control is OK. (Distance should not be more than 6 metres.)
- \* Colour Patch (Unevenness)
  - Switch off TV by the mains power button. Wait for 20 minutes before Switching on again.

*The following faults are not caused by the receivers*

- \* GHOSTS
  - Reflections of signals from mountains or high buildings will cause multiple images called "GHOSTS". These abnormal conditions can be minimized by repositioning the aerial or by installing a new one suitable to your area.
- \* INTERFERENCE
  - Interference may be caused by electrical appliances, car ignition system etc. This will normally be a temporary condition but should this interference persist, contact your dealer or the main authorised service centre.
- \* DOMING
  - If a still picture is viewed at high brightness for sometime, uneven colour patches can develop in some portions of the screen. This is not a defect and will disappear in a few minutes after moving pictures resume.



ZXPMANUBC8-11C  
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