

APPENDIX H
: USER'S MANUAL

Warning



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICE-ABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety Instructions

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories Carts and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization

This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

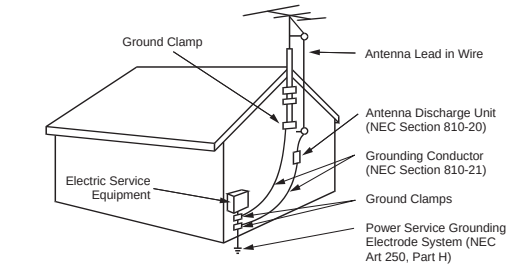
13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in

a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat

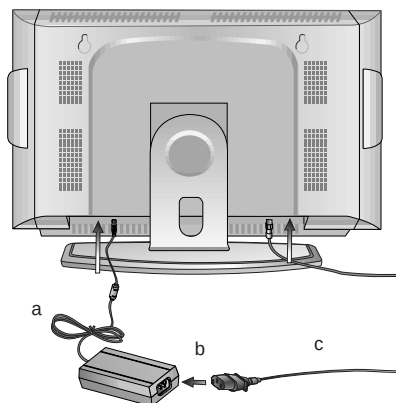
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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Installation

Power

This set operates on a DC supply provided by the AC adapter, and the voltage is as indicated on the label on the back of the set. Use only the AC adapter supplied with the set and never apply AC power to the set directly. The AC adapter operates on an AC power supply, and the voltage is as indicated on the label of the AC adapter.



- Connect the DC plug of the AC adapter to the 12V jack on the rear of the set.
- Connect the AC adapter and its power cord.
- Connect the power cord to an AC outlet.

In the event of thunderstorms or power outages, please pull out the power plug of the AC-DC adapter along with the cable or antenna connector. Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.

Warning

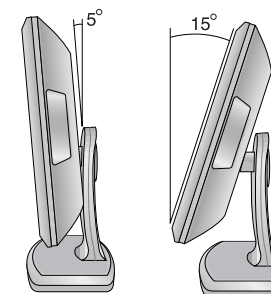
To prevent fire or shock hazard, do not expose the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may permanently scratch, mar, or damage the Active Matrix LCD.

Service

Never remove the back cover of the set as this can expose you to high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

Antenna or Cable Connection

Connect the incoming cable service or antenna cable to the socket marked 75 Ω on the back of the set. For the best reception, an outdoor antenna should be used.



Location

Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.

The standing angle can be adjusted as shown in pictures. If you wish to install the set on the wall, use the optional wall mounting bracket and secure it firmly to a wall stud, if possible. Do not mount the unit to a wall if its safety cannot be assured.

Cleaning

Unplug the set before cleaning the face of the LCD Screen. Dust the set by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners or aerosol cleaners.

Location and function of controls

Remote control handset

- All the functions can be controlled with the remote control handset.
- Some functions can also be adjusted with the buttons on the front panel of the set.

POWER
switches the set on from standby or off to standby.

NUMBER BUTTONS
switches the set on from standby and selects a program.

PSM (Picture Status Memory)
recalls your preferred picture setting.

FCR (Favorite Channels Setup)
selects a favorite program.

MENU
selects a menu.

ARC
select your desired picture format.

EXIT
exits from each mode.

CC
Select a closed caption: Off, EZ Mute, and On.

MUTE
switches the sound on or off.

SSM (Sound Status Memory)
recalls your preferred sound setting.

I/II
selects the language during dual language broadcast.
selects the sound output (option).

INPUT SELECT
Select TV, Video, S-video, Component or PC mode.

▲ / ▼ (Program Up/Down)
selects a programme or a menu item.
switches the set on from standby.

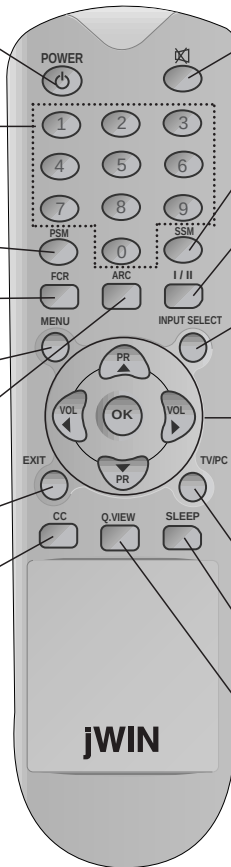
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.

OK
accepts your selection or displays the current mode.

TV/PC
selects TV or PC mode.

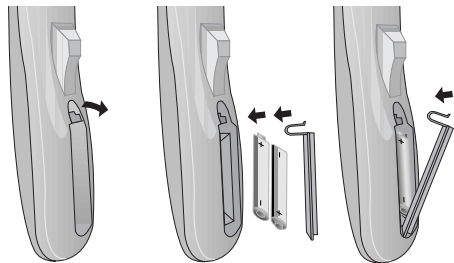
SLEEP
sets the sleep timer.

Q.VIEW
returns to the previously viewed program.
selects a favorite programme.



- Battery installation

The remote control handset is powered by two AAA/Alkaline type batteries.



- a : To insert batteries, turn the remote control handset over and remove the battery cover.
b : Put the two batteries into the compartment observing battery polarity.
c : Replace the cover.

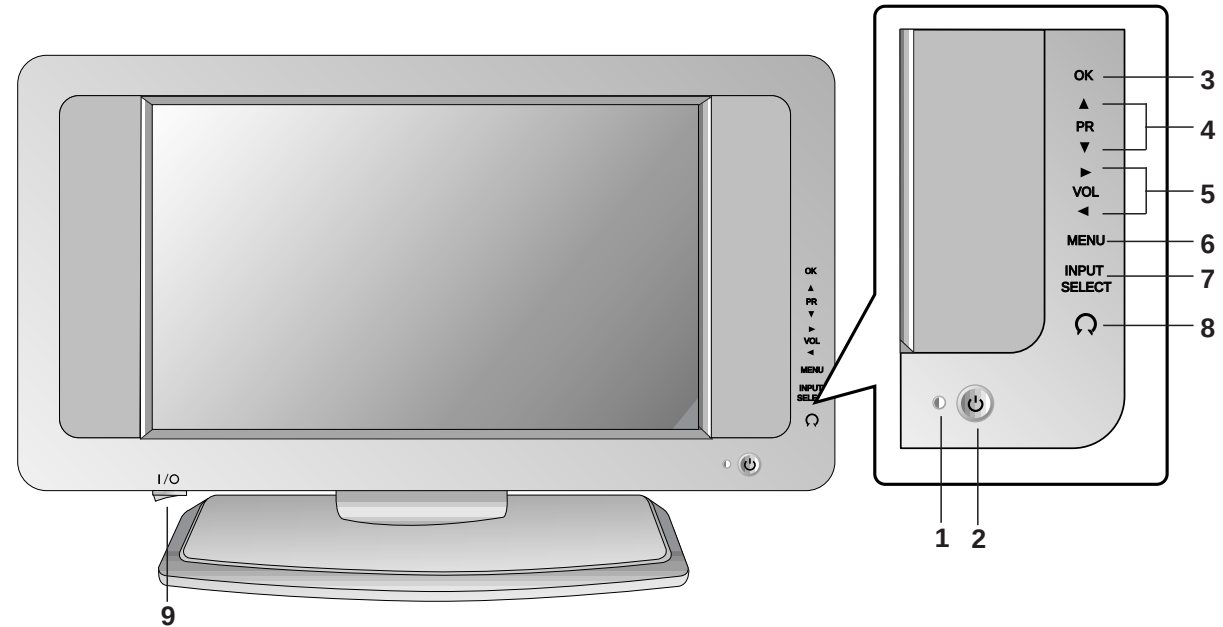
Note :

To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period time. Do not use batteries of differing age or type. Always discard of batteries safely.

You must install the batteries before you use the remote control handset.

Location and function of controls

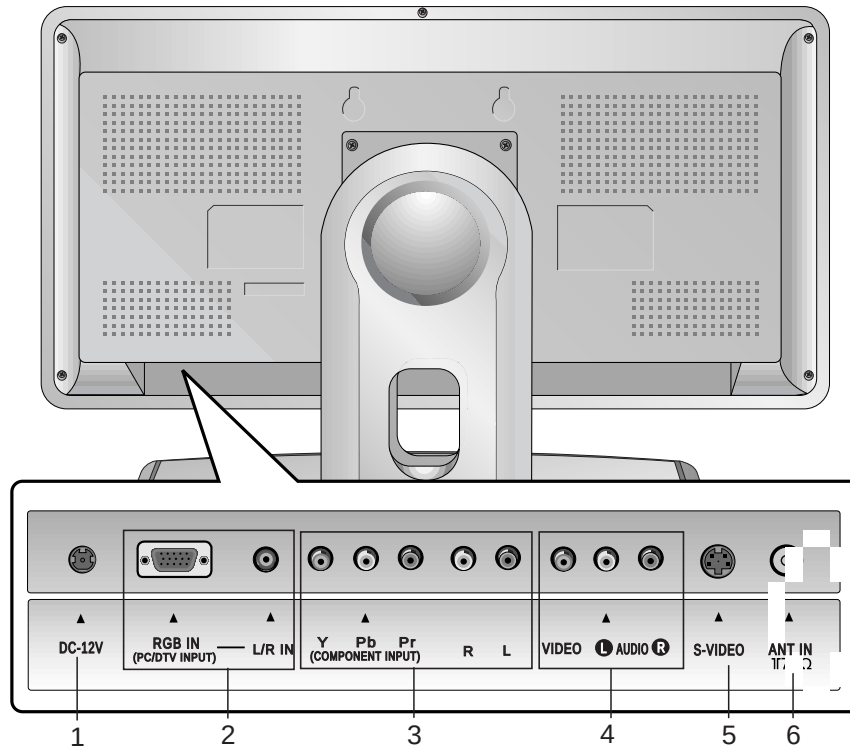
Front panel



1. **POWER/STANDBY INDICATOR (⦿)**
illuminates red in standby mode.
illuminates green when the set is switched on.
2. **ON/OFF (⦿)**
switches the set ON from standby or OFF to standby.
3. **INPUT SELECT**
select TV, Video, S-video, Component or PC mode.
4. **MENU**
selects a menu.
5. **◀ / ▶ (Volume Up/Down)**
adjusts the volume.
adjusts menu settings.
6. **▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
7. **HEADPHONE SOCKET**
Connect the headphone plug to this socket.
8. **MAIN POWER (I / O)**
switches the set on or off.

Location and function of controls

Back panel



1. POWER CORD SOCKET

2. RGB INPUT(PC/DTV INPUT) / L/R IN

Connect the set output socket of the PERSONAL COMPUTER to this socket.

3. COMPONENT INPUT (480i/480p/720p/1080i) / AUDIO INPUT

4. VIDEO/AUDIO INPUT

Connect the audio/video out sockets of the VCR to **AV** sockets of the set

5. S-VIDEO INPUT

connect video out from an S-VIDEO VCR to the S-VIDEO input.

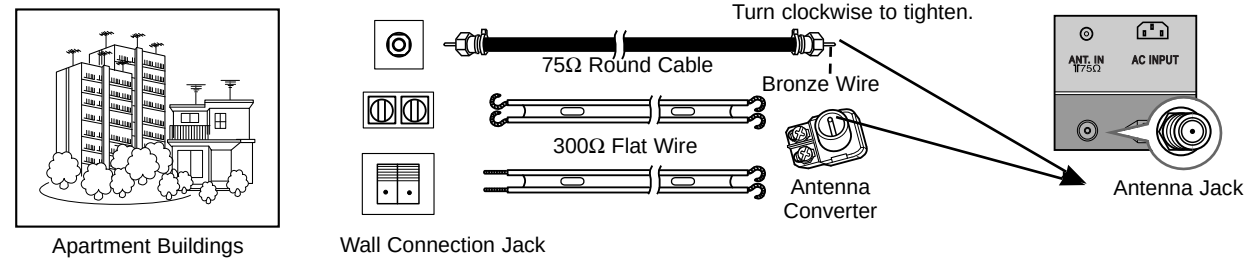
6. ANTENNA SOCKET

connect the RF socket of the VCR to the aerial sockets.

Connection to External equipment

Connecting to an Inside Antenna Setup

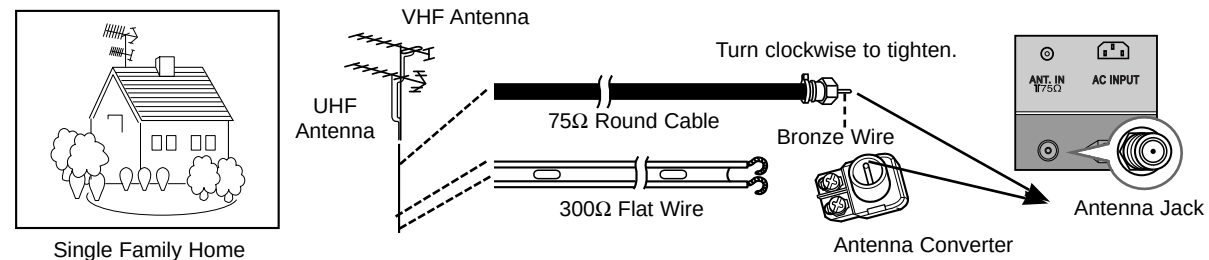
- Typical wall antenna jack used in apartment buildings, connect the antenna cable as shown below. (Use the correct type of antenna cable for the type of wall antenna jack.)



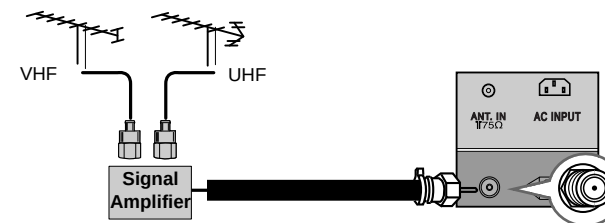
- If you have a 75Ω round cable, insert the bronze wire and then tighten the connection nut. If you have a 300Ω flat wire, connect the twisted wire to the antenna converter and then connect the converter to the antenna jack on the TV.
- If using 75Ω round cable, do not bend the bronze wire. It may cause poor picture quality.

Connecting to an Outdoor Antenna Setup

- This type of antenna is commonly used in single family dwellings.



- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



Connection to External equipment

You can connect additional equipment, such as VCRs, camcorders etc. to your set. Examples are shown below.

Watching VCR

- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved ; compared to connecting a regular VCR to the Video input.

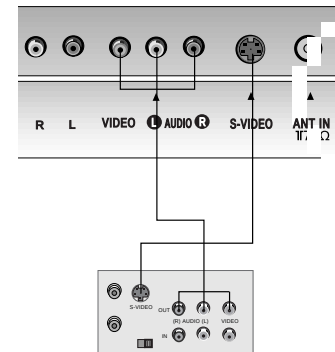
If a 4:3 picture format is used;the fixed image may remain visible on the screen.

- To avoid picture noise (interference), leave an adequate distance between the VCR and set.

1. Use the **INPUT SELECT** button on the remote control to select **Video**.

(If connected to **S-VIDEO**, select the **S-VIDEO** external input source.)

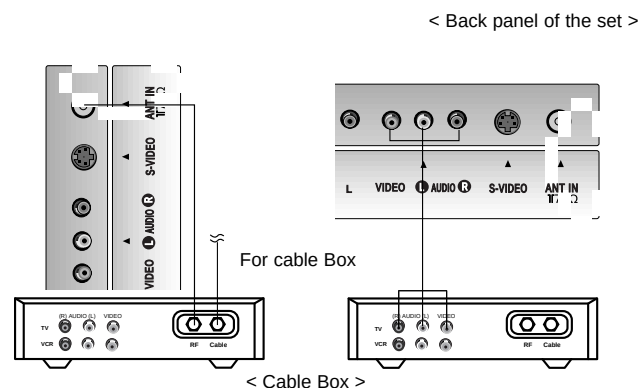
2. Insert a video tape into the VCR and press the **PLAY** button on the VCR.
(See VCR owner's manual)



< Back panel of the VCR >

Connection to External equipment

Watching Cable TV



After subscribing for a local cable TV station and installing a converter you can watch cable TV.
For further information of cable TV, contact the local TV station.

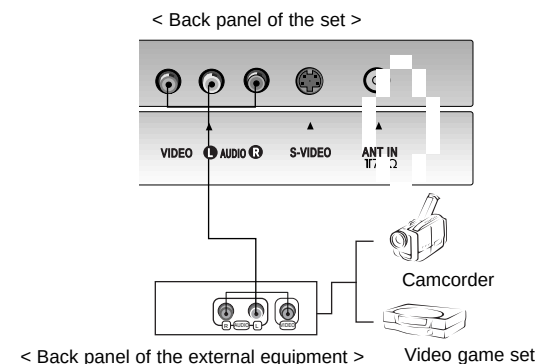
In using connection 1

1. Select program number in programme switch of cable box.
2. Match the set programme with selected programme of cable box.
3. Select your desired programme with the remote control for cable box.

In using connection 2

1. Use the **INPUT SELECT** button on the remote control and select **Video**.
2. Tune to cable service provided channels using the cable box.

Watching external AV source

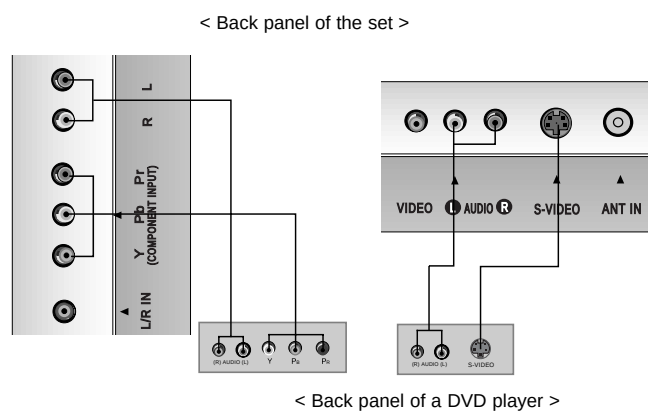


When connecting the set to an external source, match the colours of AUDIO/VIDEO input jacks on the set with the output jacks on the audio/video equipment : Video = yellow, Audio(Left) = white, Audio (Right) = red.

1. Use the **INPUT SELECT** button on the remote control to select **Video**.
2. Operate the corresponding external equipment.
See external equipment operating guide.

Connection to External equipment

Watching DVD



- **Component Input ports**
You can get better picture quality if you connect DVD player with component input ports as below.

Component ports of the set	Y	P _B	P _R
Video output ports of DVD player	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	PB	PR

How to connect

Connect DVD video inputs to Y, PB, PR of COMPONENT (DVD INPUT) and audio inputs to Audio sockets of AUDIO INPUT.

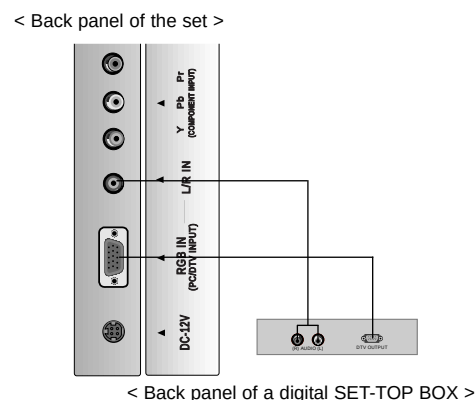
How to use

Turn on the DVD player, and insert a DVD.

Use **INPUT SELECT** button on the remote control to select **Component**. Refer to the DVD player's manual for operating instructions.

Connection to External equipment

Watching DTV



- To watch digitally broadcast programs, purchase and connect a digital set-top box.

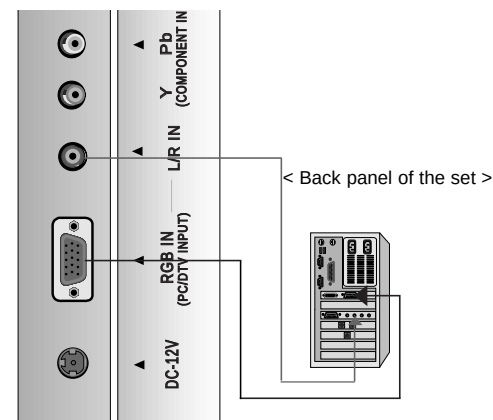
Connections

Connect the digital set-top box video outputs to the COMPONENT (Y, PB, PR) jacks and connect the digital set-top box audio outputs to the AUDIO jacks.

Viewing Setup

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use the **INPUT SELECT** button on the remote control to select **PC**.

Connecting PC



1. Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the **RGB INPUT (PC/DTV INPUT)** socket of the set.
2. Connect the audio cable from the PC to the **L/R IN** sockets of the set.
3. Press the **INPUT SELECT** button to select **PC**.
4. Switch on the PC, and the PC screen appears on the set.

Basic operation

1

On and Off

Press the **POWER**, **▲ / ▼**, **INPUT SELECT** or **NUMBER** buttons to switch it on fully.

Press the **POWER** button. The set reverts to standby mode.

Pull out the AC plugs to switch the set off.

Note : If, while the set is switched on, the AC plug is disconnected the set will switch to the standby mode, or power on once the AC plug is replaced in the power outlet.

2

Program selection

You can select a program number with the **▲ / ▼** or **NUMBER** buttons.

3

Volume adjustment

Press the **◀ / ▶** button to adjust the volume.

4

Quick view

Press the **Q.VIEW** button to view the last program you were watching.

Note : This function works only when **Favorite program** is set to **Off**. Otherwise each press of this button will select a stored favorite programme.

5

Mute function

Press the **MUTE** button. The sound is switched off and the display  appears.

You can cancel it by pressing the **MUTE**, **◀ / ▶**, **SSM**, **|||** button.

6

On screen language selection (option)

The menu can be displayed on the screen in your desired language. First select your language.

Repeatedly press the **MENU** button to select the Special menu.

Press the **▲ / ▼** button to select **Language**.

Press the **◀ / ▶** button to select your desired language.

Press the **OK** button.

All the on screen displays will appear in the selected language.

Repeatedly press the **MENU** button to return to normal TV viewing.

On screen menus

Menu selection

The dialogue between you and your set takes place on screen with an operator menu.
The buttons required for the operating steps are also displayed.

1

Repeatedly press the **MENU** button to display each menu.

2

Press the **▲ / ▼** button to select a menu item.

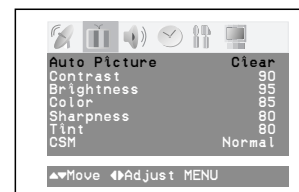
The selected menu item changes from white to red.

3

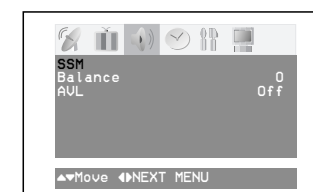
Press the **◀ / ▶** button to change the setting of a menu item or **OK** button to display the sub menu.



Station menu



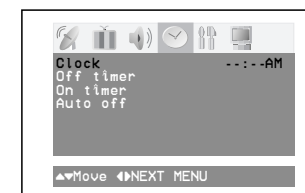
Picture menu



Sound menu



Special menu



Time menu

Setting up TV stations

Memorizing the Channels with Auto programme

- For Auto to work, the programming source must be connected to the TV and the TV must be receiving programming signals either over-the-air or from a cable-type service provider.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Auto program**.
3. Press the **►** button to begin the channel search.
 - Wait for auto program to complete the channel search cycle before choosing a channel. The TV scans for over-the-air channels and then channels provided by a cable service.

NOTES

- When the channel search is complete, use the **▲ / ▼** buttons to review the memorized channels.
- If you press the **OK** button in Auto, the function will stop and only channels programming up to that time will remain.
- Auto function can memorize only the channels which are being received at that time.



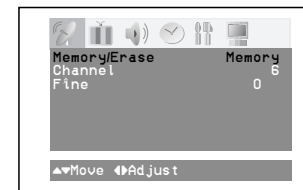
Add/Delete Channels with Manual program

- You can manually include or erase individual channels.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Manual program**.
3. Press the **▲ / ▼** button to select a channel you want to add to memory or erase.
4. Press the **◀ / ▶** button to select **Memory** (add) or **Erase** (delete).
5. Press the **▲ / ▼** button to select **Channel**. Select the desired programme number (0 to 99) with the **◀ / ▶** button or **NUMBER** buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
6. Press the **EXIT** button to save and return to TV viewing.

The current channel is added to Memory or Erased from the channel list.

The display **Stored** will appear.

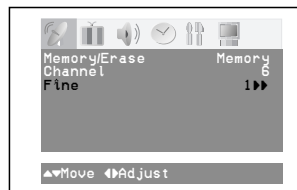


Setting up TV stations

Fine Tuning Adjustment

- This function adjusts the pictures stability and condition when it is poor.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Manual program**.
3. Press the **▲ / ▼** button to select **Fine**.
4. Use the **◀ / ▶** button to adjust the picture to your preference.
5. Press the **EXIT** button to save and return to TV viewing.

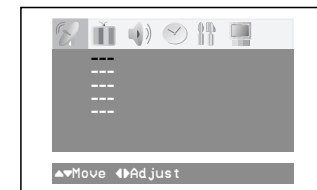


Favorite Channels Setup

- Favorite Channel lets you quickly tune in up to 5 channels of your choice without having to wait for the TV to scan through all the in-between channels.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Favorite ch.**.
3. Press the **OK** button to display the **Favorite programme** menu.
4. Press the **▲ / ▼** button to select the first favorite channel position.
5. Use the **◀ / ▶** button to set the desired channel number for first favorite channel.
6. Repeat steps 4 to 5 to memorize other channels. You can store up to 5 programmes.
7. Press the **OK** button to save.

Repeatedly press the **FCR** button to select stored favorite programmes.

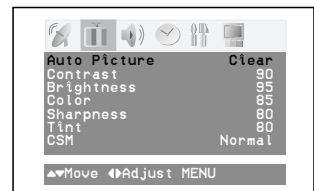
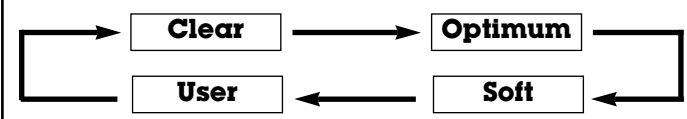


Picture Menu

PSM (Picture Status Memory)

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the **▲ / ▼** button to select **Auto picture**.
3. Press the **◀ / ▶** button to make appropriate adjustments.
4. Press the **EXIT** button to save and return to TV viewing.

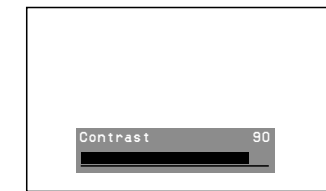
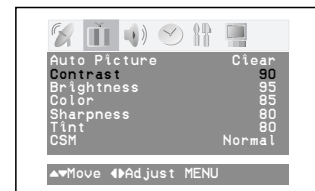
You can also recall a desired picture (**Clear**, **Optimum**, **Soft** or **User**) with **PSM** button on the remote control. The picture **Clear**, **Optimum** and **Soft** are programmed for good picture reproduction at the factory and cannot be changed.



Manual Picture Control

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the **▲ / ▼** button to select the desired picture item.
3. Press the **◀ / ▶** button to make appropriate adjustments.
4. Press the **OK** button to store it for the picture **User**. The display **Stored** appears.
5. Press the **EXIT** button to save and return to TV viewing.

You can adjust picture contrast, brightness, color, sharpness and tint to the levels you prefer.

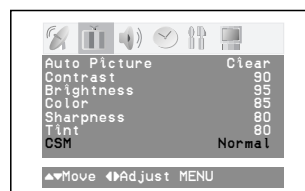
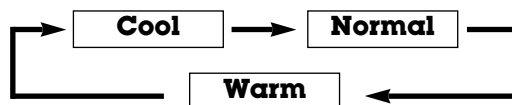


Picture Menu

CSM (Color Status Memory)

To initialize values (reset to default settings), select the **Normal** option. When adjusting color temperature options (red, green or blue) manually, CSM is automatically changed to **User**.

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the **▲ / ▼** button to select **CSM**.
3. Press the **◀ / ▶** button to select the desired color temperature.
4. Press the **EXIT** button to save and return to TV viewing.



Picture format

You can watch TV in various picture formats; 16:9, 14:9, 4:3, Zoom 1, Zoom 2.

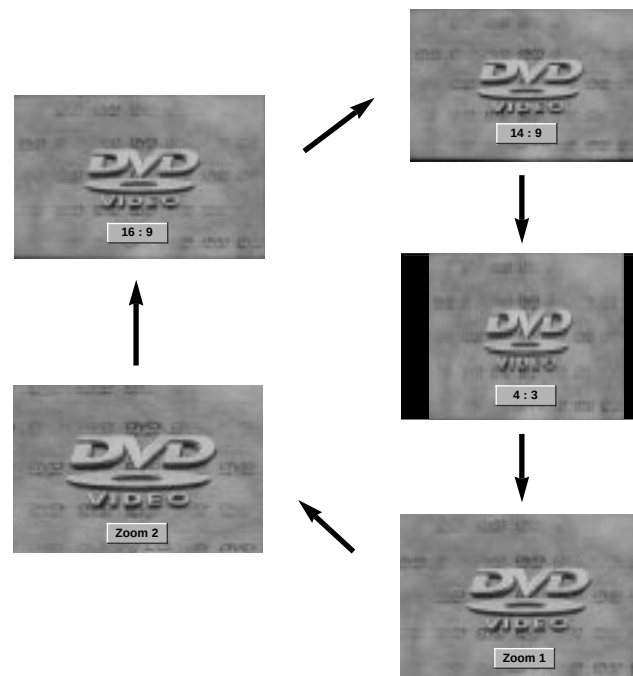
Repeatedly press the **ARC** button to select your desired picture format.

1. Press the **ARC** button to select a desired picture format.

- Each press of **ARC** button changes the screen display as shown below.
- You can also select **16:9**, **14:9**, **4:3**, **Zoom 1**, **Zoom 2** in the SCREEN menu.

Note :

- 16:9** and **4:3** are available in PC, Component mode only.
- If 4:3 is on the screen for a long time, that fixed image may remain visible.



SSM (Sound Status Memory)

You can select your preferred sound setting; Flat, Music, Movie or Speech and you can also adjust the sound frequency of equalizer, balance. If you switch AVL to on, the set automatically keeps on an equal volume level even if you change programmes.

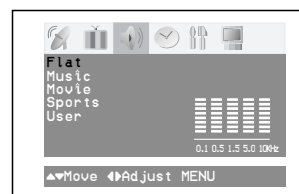
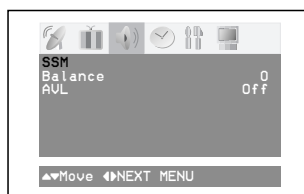
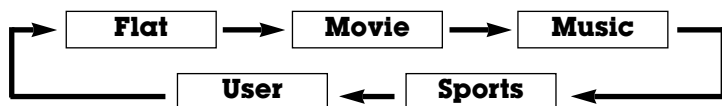
1. Repeatedly press the **MENU** button to select the **SOUND** menu.
2. Press the **▲ / ▼** button to select **SSM**.
3. Press the **OK** button to display the **SSM** menu.
4. Press the **▲ / ▼** button to make appropriate adjustments.
5. Press the **EXIT** button to save and return to TV viewing.

Sound Frequency Adjustment

- a. Press the **►** button in **User**.
- b. Select a sound band by pressing the **◀ / ▶** button.
- c. Make appropriate sound level with the **▲ / ▼** button.
- d. Press the **OK** button to store it for the sound **User**.

The display **Stored** will appear.

You can also recall a desired sound (**Flat**, **Movie**, **Music**, **Sports** or **User**) with **SSM** button on the remote control. The sound **Flat**, **Speech**, **Movie** and **Music** are programmed for good sound reproduction at the factory and cannot be changed.



Sound Menu

Balance

1. Repeatedly press the **MENU** button to select the SOUND menu.
2. Press the **▲ / ▼** button to select **Balance**.
3. Press the **◀ / ▶** button to make appropriate adjustments.
4. Press the **EXIT** button to save and return to TV viewing.



AVL (Auto Volume Leveler)

1. Repeatedly press the **MENU** button to select the SOUND menu.
2. Press the **▲ / ▼** button to select **AVL**.
3. Press the **▲ / ▼** button to select **On** or **Off**.
4. Press the **EXIT** button to save and return to TV viewing.

This feature maintains an equal volume level; even if you change channels.



Stereo/SAP Broadcasts Setup

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program, if the broadcaster transmits an additional sound signal as well as the original one.
- Mono: The primary language is heard from left and right speakers. Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers. Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers.



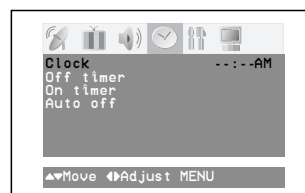
1. Press the **I/II** button repeatedly.
 - Select mono sound mode if the signal is not clear or in poor signal reception areas.
 - **Stereo, SAP** mode are available only if included on the broadcast signal.

Time Menu

Clock

You must set the time correctly before using on/off time function.

1. Repeatedly press the **MENU** button to select the TIME menu.
2. Press the ▲ / ▼ button to select **Clock**.
3. Press the ► button and then ▲ / ▼ button to adjust the hour.
4. Press the ► button and then ▲ / ▼ button to adjust the minute.
5. Press the **EXIT** button to save and return to TV viewing.



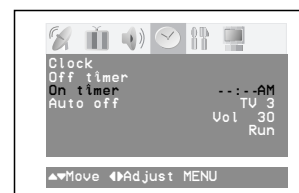
On/Off Time

The off timer automatically switches the set to standby at the preset time.

1. Repeatedly press the **MENU** button to select the TIME menu.
2. Press the ▲ / ▼ button to select **Off Time** or **On Time**.
3. Press the ► button and then ▲ / ▼ button to select **Run**.
4. To cancel **Off/On Time** function, press the ▲ / ▼ button to select **Hold**.
5. Press the ► button and then ▲ / ▼ button to adjust the hour.
6. Press the ► button and then ▲ / ▼ button to adjust the minute.
7. **Only On time function** ; Press the ▲ / ▼ button to adjust volume level and programme number.
8. Press the **EXIT** button to save and return to TV viewing.

Note :

- a. In the event of power interruption (disconnection or power failure), the clock must be reset.
- b. Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
- c. Once the on or off time is set, these functions operate daily at the preset time.
- d. The Off Timer function overrides the On Timer function if they are set to the same time.
- e. The set must be in standby mode for the On Timer to work.



Auto off

If you select **On** on the **Auto off** menu, the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

1. Repeatedly press the **MENU** button to select the TIME menu.
2. Press the **▲ / ▼** button to select **Auto off**.
3. Press the **◀ / ▶** button to select **On** or **Off**.
4. Press the **EXIT** button to save and return to TV viewing.



Sleep timer

You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time has elapsed. Press the **SLEEP** button to select the number of minutes. The display 'Sleep 0 ◀▶' will appear on the screen, followed by **10, 20, 30, 60, 90, 120, 180** and **240**. The timer begins to count down from the number of minutes selected.

Note :

- a. To view the remaining sleep time, press the **SLEEP** button once.
- b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display 'Sleep 0 ◀▶' appears.
- c. When you switch the set off, the set releases the preset sleep time.

Special Menu

Caption

Use the **cc** button repeatedly to select Captions.

EZ Mute shows the selected captions option (if available on program) when the TV sound is muted.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the **▲ / ▼** button to select **Captions**.
3. Press the **◀ / ▶** button to select **Off**, **On** or **Ez Mute**.
4. Press the **EXIT** button to save and return to TV viewing.

Note : It's not available in Component and RGB-PC modes.



Captions/Text

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the **▲ / ▼** button to select **Captions/Text**.
3. Use the **◀ / ▶** button to select your caption selection. Your choices are: **CC1**, **CC2**, **CC3**, **CC4**, **Text 1**, **Text 2**, **Text3** and **Text4**.
4. Press the **EXIT** button to save and return to TV viewing.



Lock Menu Options

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcast station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be set :

1. Ratings and categories to be blocked.
2. Set a password
3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

For Movies previously shown in theaters :

Movie Ratings :

- Unblocked
- G and Above (general audience)
- PG and Above (parental guidance suggested)
- PG-13 and Above (13 years and older)
- NC-17 and Above (18 years and older)
- X (adult)

If you set PG-13 and Above : G and PG movies will be available , PG-13, NC-17 and X will be blocked.

For Television programs including made-for-TV movies:

General TV Ratings:

- Unblocked
- TV-G and Above (general audience) (individual categories do not apply)
- TV-PG and Above (parental guidance suggested)
- TV-14 and Above (14 years and older)
- TV-MA (mature audience)

Children TV Ratings:

- Unblocked
- TV-Y and Above (youth) (individual content categories do not apply)
- TV-Y7 (youth, 7 years and older)

Content Categories:

- Dialog - sexual dialogue (applies to TV-PG and Above, TV-14, Unblocked)
- Language - adult language (applies to TV-PG and Above,

- Sex scenes - sexual situations (TV-14 and Above, TV-MA, Unblocked)
(applies to TV-PG and Above, TV-14 and Above, TV-MA, Unblocked)
- Violence (applies to TV-PG and Above, TV-14 and Above, TV-MA, Unblocked)
- F Violence - fantasy violence (applies to TV-PG and Above, TV-14 and Above, TV-MA, Unblocked)

For Canadian English/French language rating system:

Canadian English language rating system:

- C and Above (Children)
- C8+ and Above (8 years and up)
- G and Above (General programming. Suitable for all audiences.)
- PG and Above (Parental guidance suggested)
- 14+and Above (Viewers 14 years and older)
- 18+ (Adult programming)
- Unblocked

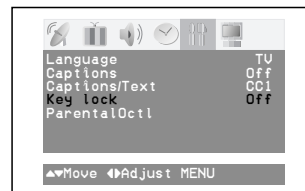
Canadian French language rating system:

- G (General)
- 8 ans+ (8 years and older)
- 13 ans+ (13 years and older)
- 16 ans+ (16 years and older)
- 18 ans+ (Adults only)
- Unblocked

Special Menu

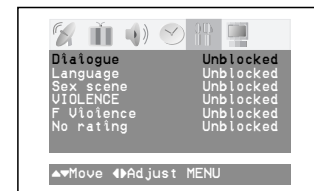
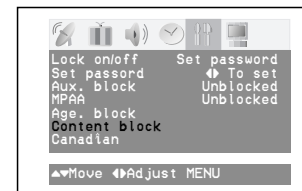
Key lock

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the **▲ / ▼** button to select **Key lock**.
3. Press the **◀ / ▶** button to select **on** or **off**.
4. Press the **EXIT** button to save and return to TV viewing.



Lock Menu Setup

1. Repeatedly press the **MENU** button to select the Special menu. Then, press the **►** button.
 - If **Lock** is already set, enter the password requested.
 - The TV is set with the initial password "0-0-0-0".
2. **Set password:**
Press the **▲ / ▼** button to select **Set password**.
Press the **►** button and then enter a four digit password. Enter it again when requested.
3. **Setting Lock on/off:**
Press the **▲ / ▼** button to select **Lock on/off**.
Use the **◀ / ▶** button to select **on** or **off**.
4. Press the **▲ / ▼** button to select type of blocking to be set .
5. Press the **◀ / ▶** button to select type of ratings to block .
6. **Only Age block, Content block, and Canadian function** ; Press the **►** button and then use **▲ / ▼** button to select type of ratings to block .
7. Press the **EXIT** button to save and return to TV viewing.



PC in socket (D-Sub jack)

1. Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the PC input socket of the set.
2. Connect the audio cable from the PC to the **PC SOUND** sockets of the set.
3. Press the **INPUT SELECT** button to select **PC**.
4. Switch on the PC, and the PC screen appears on the set.

The set can be operated as the PC monitor.

Note : If you have an Apple macintosh, connect the VGA desktop block (not supplied) from the 3 row 15 pin to 2 row 15 pin with the signal cable and connect the VGA desktop block to the Macintosh.

Displayable Monitor Specification

Proposed	Resolution	H-freq(KHZ)	V-freq(HZ)	Pixel clock(MHZ)
DOS	720x400	37.9KHz	70Hz	35.50MHz
VESA(VGA)	640x480	31.5KHz	60Hz	25.17MHz
VESA(VGA)	640x480	37.9KHz	72Hz	31.50MHz
VESA(VGA)	640x480	37.5KHz	75Hz	31.50MHz
VESA(SVGA)	800x600	35.1KHz	56Hz	36.00MHz
VESA(SVGA)	800x600	37.9KHz	60Hz	40.00MHz
VESA(SVGA)	800x600	48.1KHz	72Hz	50.00MHz
VESA(SVGA)	800x600	46.9KHz	75Hz	49.50MHz
VESA(XGA)	1024x768	48.4KHz	60Hz	65.00MHz
VESA(XGA)	1024x768	56.5KHz	70Hz	75.00MHz
VESA(XGA)	1024x768	60.0KHz	75Hz	78.75MHz
VESA(SXGA)	1152x864	67.5KHz	75Hz	108.00MHz
VESA(WXGA)	1280x768	47.7KHz	60Hz	80.136MHz

(Synchronization input form : separate)

Note :

- a. If the set is cold, there may be a small "flicker" when the set is switched on. This is normal, there is nothing wrong with the set.
- b. If possible, use the VESA 1,024x768@60Hz video mode to obtain the best image quality for your LCD monitor. If used under the other resolutions, some scaled or processed pictures may appear on the screen. If used to PC vertical frequency 85Hz, some noise can be seen when PIP is on. In this case, set the PC vertical frequency to 60Hz. The set has been pre-adjusted to the mode VESA 1,024x768@60Hz.
- c. Some dot defects may appear on the screen, like Red, Green or Blue spots. However, this will have no impact or effect on the monitor performance.
- d. Do not press the LCD screen with your finger for a long time as this may produce some temporary distortion effects on the screen.
- e. When the PC screen appears on the set, a message may appear on the screen, and the message will differ according to the Window system version (Win98, 2000). If a message appears click "Next" until the message finishes.
- f. If the message "**out of Range**" appears on the screen, adjust the PC as in the 'Displayable Monitor Specification' section.

Connection of PC

Picture adjustment

You can adjust picture contrast, brightness, horizontal/vertical position, clock, clock phase, auto-configure and reset as you prefer.

1. Repeatedly press the **INPUT SELECT** button to select the PC monitor mode.
2. Repeatedly press the **MENU** button to select the Special menu.
3. Press the **▲ / ▼** button to select the desired picture item.
4. Press the **◀ / ▶** button to make appropriate adjustments.

H-Position / V-Position

This function is to adjust picture to left/right and up/down as you prefer.

Clock

This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

Clock Phase

This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

Auto-configure

This function is for the automatic adjustment of the screen position, clock and clock phase. The displayed image will disappear for a few seconds while the Auto-configuration is in progress.

Note : *Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, clock and clock phase manually.*

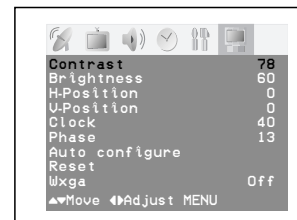
Reset

This function allows you to return to the good picture reproduction programmed at the factory and cannot be changed.

Wxga

To see a normal picture, match the resolution of RGB mode and selection of Wxga(1280x768) mode.

5. Press the **OK** button to store it for the PC monitor picture.
The display **Stored** appears.
6. Press the **MENU** button to return to PC mode.

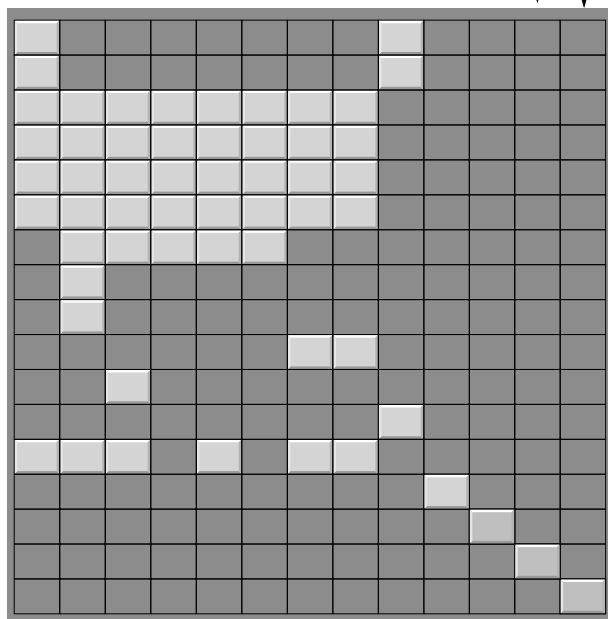


Troubleshooting Checklist

Symptoms

No picture, no sound
 Sound OK, poor picture
 Picture OK, poor sound
 Picture blurred
 Lines or streaks in picture
 Poor reception on some channels
 No color
 Poor color
 Remote control does not work
 Incorrect position
 Vertical bars or stripes on background
 Horizontal noise
 Signal Cable message appears

Check these items and try to adjust these



The mains plug-(plugged in and switched on)
 Is the TV switched on
 Try another channel (weak signal)
 Check aerial (plugged into TV?)
 Check aerial (broken lead?)
 Check aerial
 Check for local interference
 Adjust contrast
 Adjust brightness
 Adjust color
 Adjust volume
 Check the batteries in remote control
 Check Audio/Video sockets (VCR only)
 Auto-configure or adjust the H/V position
 Auto-configure or adjust Clock
 Auto-configure or adjust Clock Phase
 Is the Signal Cable connected or loose

