

HITACHI

27" PC READY COLOR TV

27MM20B

OPERATING GUIDE

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IMPORTANT

Follow all warnings and instructions marked on this television receiver.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING 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 HAZARD, DO NOT EXPOSE THIS TELEVISION SYSTEM TO RAIN OR MOISTURE.

NOTE: There are no user serviceable parts inside the receiver.

Model and serial numbers are indicated on back side of the set.

POWER SOURCE

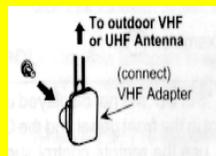
This HITACHI COLOR TV is designed to operate on 120 volts 60 Hz, AC household current.

Insert power cord into a 120 volt 60 Hz outlet.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE TELEVISION'S PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NEVER CONNECT THE TV TO 50 Hz, DIRECT CURRENT, OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

NOTE: This television receiver will display television closed captioning ( or ), in accordance with paragraph 15, 119 of the FCC rules.



CAUTION: Never remove the back cover of the set as this can expose you to very high voltages and other hazards. If the set does not operate properly, unplug the set and call your dealer or service shop.

IMPORTANT SAFEGUARDS

SAFETY POINTS YOU SHOULD KNOW ABOUT
YOUR HITACHI TELEVISION RECEIVER

CAUTION:

- Read all of these instructions.
- Save these instructions for later use.
- Follow all warnings and instructions marked on the television receiver.

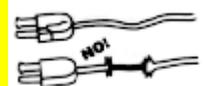
Our reputation has been built on the quality, performance, and ease of service of HITACHI television receivers. Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your HITACHI television receiver.

Please fill out your warranty card and mail it to HITACHI. This will enable HITACHI to notify you promptly in the improbable event that a safety problem should be discovered in your model of product.

FOR YOUR PERSONAL SAFETY



1 This television set is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



2 When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.



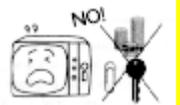
3 Do not overload wall outlets and extension cords as this can result in fire or electric shock.



4 Do not allow anything to rest on or roll over the power cord, and do not place the TV where the power cord is subject to traffic or abuse. This may result in a shock or fire hazard.



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



6 Never push objects of any kind into this television set through cabinet slots 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 television set.



7 If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.



8 If liquid has been spilled into this television set, unplug it from the wall outlet and refer service to qualified service personnel.



9 Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.



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



11-1 Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



11-2 An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PROTECTION AND LOCATION OF YOUR SET

12 Do not use this television set near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



- Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing personnel.

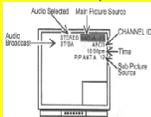


13 Choose a place where light (artificial or sunlight) does not shine directly on the screen.

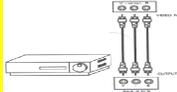


14 Avoid dusty places, since accumulated dust inside the chassis may cause failure of the set when high humidity persists.

15 The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, and to protect from overheating. These openings must not be blocked or covered.



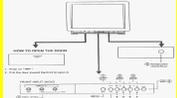
- Never cover the slots or openings with cloth or other material.



- Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.



- Never place the set near or over a radiator or heat register.



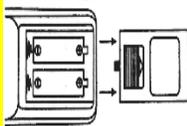
- Never place the set in a "built-in" enclosure, unless proper ventilation provided.

PROTECTION AND LOCATION OF YOUR SET

16-1 If an outside antenna is connected to the television set, be sure the antenna system is protected against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect 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 electrode, and requirements for the grounding electrode.

Click to see antenna grounding illustration.

16-2 **Note to CATV system installer:** (Only for the television set with CATV reception) This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that 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 cable entry as practical.



17 An outside antenna system should not be located in the vicinity of overhead power lines or other electrical lights 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.



18 For added protection for this television set 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. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET



19 This television set 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 at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.



20 If the television set does not operate normally by following the operating instructions, unplug this set television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.



21 If your television set is to remain unused for a period of time, (such as when going on a holiday), turn the television set OFF and unplug it from the wall outlet.

IF THIS SET DOES NOT OPERATE PROPERLY



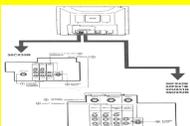
22 If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.

23 Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.



24 It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICING AND MODIFICATION



25 Do not use attachments not recommended by the television set manufacturer as they may cause hazards.

26 When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in

fire, electric shock, or other hazards.



27 Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

PICTURE CAUTIONS

WARNING

Continuous On-Screen Displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to Color Television Receivers. Such "PATTERN BURNS" constitute misuse and are NOT COVERED by your HITACHI Factory Warranty.

This color television receiver was intended mainly for the private viewing of programs broadcast by TV stations, cable companies, and programs from other video sources. Public viewing may require prior authorization from the broadcaster or owner of the video program.

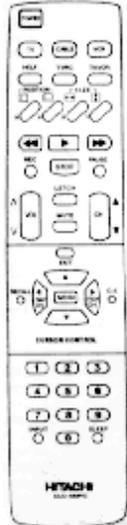
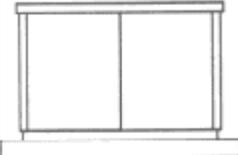
ACCESSORIES

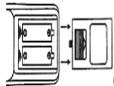
Check that you have the following accessories before disposing of the packing material.

1. Remote Control Unit (CLU-433PC)
2. Two "AA" size, 1.5 V batteries (For Remote Control Unit).

For information regarding how to obtain these accessories, please call TOLL FREE 1-800-448-2244 for your nearest HITACHI Authorized Parts Distributor in the continental United States. For Alaska and Hawaii, please contact your nearest HITACHI regional office.

PART NAME	PART NO.	ILLUSTRATION
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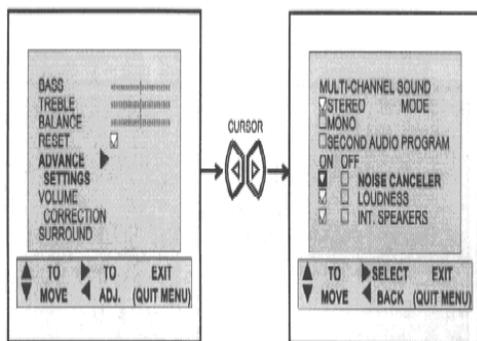
<p>27MM20B CLU-433PC REMOTE CONTROL</p>	<p>HL00723</p>	
<p>27V TELEVISION STAND SP271B (Not included, order separately)</p>	<p>H530021</p>	 <p>CUSTOM HITACHI TELEVISION STAND Excellent for VCR and videotape storage. Special features include curved smoke glass doors and an adjustable shelf. Available in Black.</p>



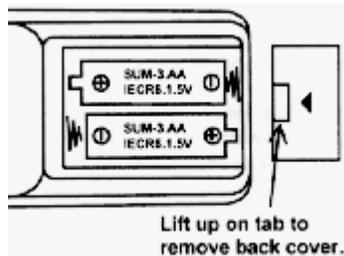
CAUTION: Television stand model SP271B is designed for use only with a 27 inch or smaller television set. Use with larger equipment may result in instability, causing possible injury.

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

1. Open the battery cover of the remote control by pushing the notched part of the cover with your fingers.
2. Insert two new "AA" size batteries in the remote. When replacing old batteries, push them towards the springs and lift them out.
3. Match the (+) and (-) marks in the battery compartment.
4. Replace the cover.



BOTTOM VIEW

**CAUTIONS**

1. If your television set is to remain unused for a long period of time, for instance when you go on vacation, unplug the television from the wall outlet.
2. Do not subject the remote control to shocks such as dropping it on the floor, etc. Precision parts may be damaged.
3. Do not allow the remote control to become wet and avoid placing it in areas of high humidity. Do not leave it on or near a heater. Excess heat or moisture may cause the unit to cease operation.
4. If the batteries become exhausted, remote control operation may become erratic or stop altogether. Replace the old batteries with new "AA" types.

NOTES:

1. The CHANNEL NO., VOLUME, and OFF TIMER indicators are not displayed simultaneously.
2. To operate your TV, point the remote control at the remote sensor of the TV.

HOW TO SET UP YOUR NEW HITACHI COLOR TV**ANTENNA**

Unless your TV is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for the best performance. However, if you are located in an exceptionally good signal area that is free from interference, and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the back cover of the set.

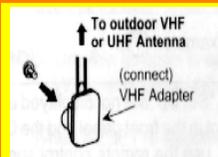
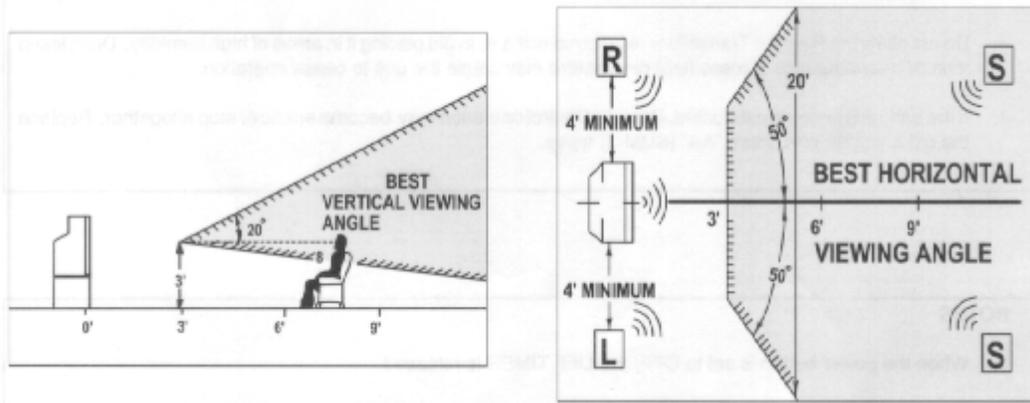
To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.

VIEWING

To view the television screen at its best, test various locations in the room. The drawings below show several suggestion.

The best picture is seen by sitting directly in front of the TV and about 6 to 9 feet from the screen. During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

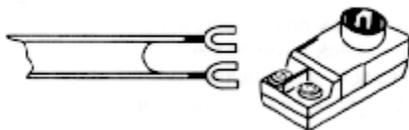
If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least 4 feet from the side of the TV. Place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.



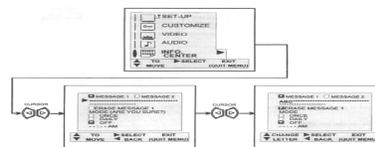
CAUTION: The magnetic field of external speakers may cause the picture to distort if the speakers are placed too close to the television. Move the speakers away from the TV until there is no picture distortion.

HOOKUP CABLES

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.



300-Ohm Twin Lead Connector
This outdoor antenna cable must be connected to an antenna adaptor (300-Ohm to 75-Ohm).



"F" Type 75-Ohm Coaxial Antenna Connector
For connecting RF signals (antenna or cable TV) to the antenna jack on the television.



Phono Connector
Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and front control panel.



S-Video (Super Video) Connector
This connector is used on camcorders, VCRs, and laser disc players with an S-Video feature in place of the standard video cable to produce a high-quality picture.



D-SUB MINI 5-Pin Cable (provided)
 This cable is to connect a computer VGA output to the D-SUB input located on the rear panel.



Mouse Connector Cable (provided)
 This cable is used to connect the computer mouse port to the TV/monitor mouse output for remote control mouse operation.

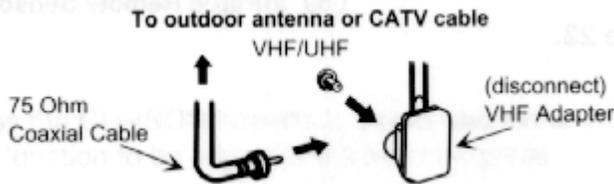
HOOKUP CABLES AND CONNECTORS

ANTENNA CONNECTIONS

These sets are equipped with one VHF/UHF antenna terminal. The VHF/UHF terminal can be used for normal TV, cable TV (CATV), a TV game, etc.

1. VHF (75 Ohm) antenna/CATV

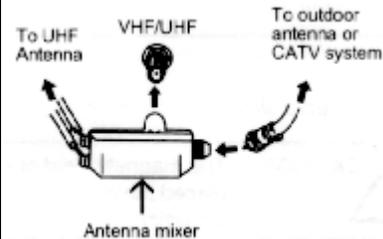
When using a 75 Ohm coaxial cable system, disconnect the VHF adaptor from the 75-Ohm receptacle and connect the outdoor antenna or CATV cable to a VHF 75 ohm



receptacle.

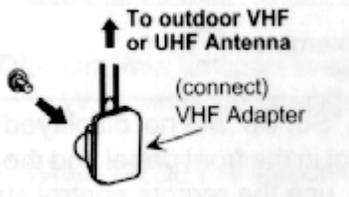
3. When both VHF and UHF antennas are connected

Attach an optional ANTENNA MIXER to the TV antenna terminal and connect the cables to the ANTENNA MIXER.



2. VHF (300 Ohm) antenna/UHF antenna

When using a 300-Ohm twin lead from an outdoor antenna disconnect the (VHF or UHF) indoor antenna leads from screws of the (VHF or UHF) adaptor, and connect outdoor (VHF or UHF) antenna leads to these screws of a (VHF or UHF) adaptor.



Notes:

1. If an outdoor antenna/CATV is used, disconnect the indoor antenna. Ghosting and poor reception may result if both the indoor and outdoor antennas/CATV are connected at the same time
2. Consult your dealer or service store for the ANTENNA MIXER and (VHF or UHF) adaptor.
3. The special converter (decoder) will be supplied by the cable company.

FRONT PANEL CONTROLS

FRONT VIEW

Front Panel Illustration

See page 20 for MENU, CURSOR, and EXIT button operations.

A detailed explanation of the circled numbers is on page 12.

1 INPUT Selector

Press this button to select the current antenna source or VIDEO. Your selection is shown at the top right corner of the screen.

2 VOLUME Level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen.

3 CHANNEL Selector

Press these buttons until the desired channel appears at the top right corner of the TV screen.

4 POWER Button

Press this button to turn the TV on or off.

NOTE: Your HITACHI TV will appear to be turned OFF if there is no video input when VIDEO is selected. If you have no input to VIDEO, press the INPUT button until the normal broadcast picture appears. If the picture does not appear, the power is OFF.

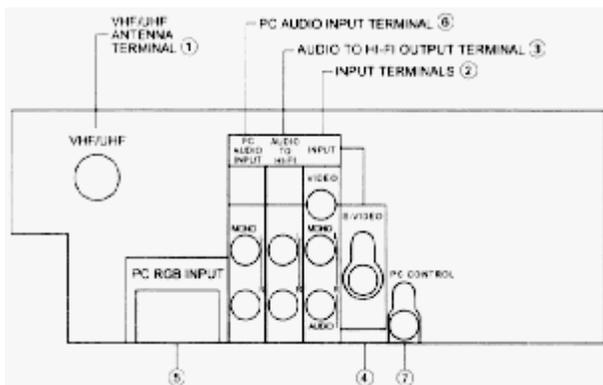
5 REMOTE CONTROL INFRARED Sensor

Point your remote control at this area when selecting channels, adjusting volume, etc.

NOTE: Front panel control CURSOR operation will not operate the FAMILY FAVORITES channel function.

REAR PANEL JACKS

REAR VIEW



1 Antenna Inputs

The VHF/UHF terminal can be used for normal TV, cable TV (CATV), a video game, etc.

2 Audio/Video Input

Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, video games, etc.

3 Audio to Hi-Fi

These jacks provide variable audio output to a separate stereo system amplifier. With this connection, the audio to the stereo can be controlled by the television's remote control. (see pages 15)

4 S-Video

Input 1 provides S-Video (Super Video) jacks for connecting equipment with S-Video output capability.

5 PC RGB Input

Use this 15-pin D-SUB Input for your PC connection. (see page 43)

6 PC Audio Input

Connect external devices for audio in PC mode. (see page 46)

7 PC Mouse Control

Use this input for remote control mouse operation (see page46)

TIPS ON REAR PANEL CONNECTIONS

IMPORTANT: TURN POWER OFF ON THE TV/PC MONITOR AND THE PC BEFORE CONNECTING OR DISCONNECTING ANY CABLES.

The S-Video connection is provided for high performance laserdisc players, VCRs etc., that have this feature. Use this connection in place of the standard video connection if your device has this feature.

If your device has only one audio output (mono sound), connect it to the left audio jack on the TV.

Refer to the operating guide of your other electronic equipment for additional information on connecting your hookup cables.

TV REAR PANEL CONNECTIONS

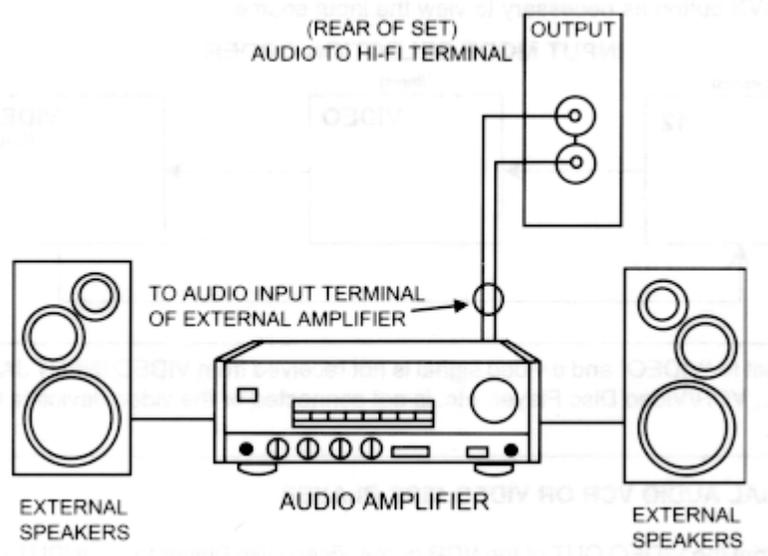
Rear Panel Connections Illustration

Typical full feature set-up. Follow connections that pertain to your to personal entertainment system.

EXTERNAL CONNECTIONS

CONNECTING EXTERNAL AUDIO AMPLIFIER

To control the audio level of an external audio amplifier with the remote control, connect the system as shown below.



NOTE: To prevent damage to the speaker and distort sound, set the volume control of the audio amplifier lower and adjust the sound using the remote control of the TV set.

CONNECTING EXTERNAL VIDEO SOURCES

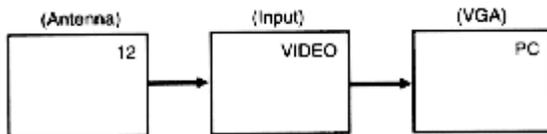
The exact arrangement you use to connect the VCR, camcorder, and laserdisc player to your TV set is dependent on the model and features of each component. Check the owners manual of each component for the location of video and audio inputs and outputs.

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

Before Operating External Video Source

The input mode is changed everytime the INPUT button is pressed as shown below. Connect external source to the INPUT terminal, then press the INPUT button as necessary to view the input source (see page 21).

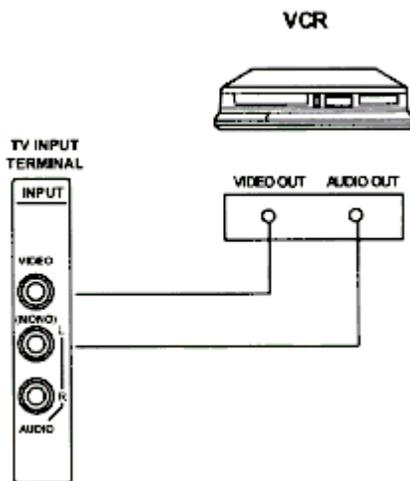
INPUT MODE SELECTION ORDER



NOTE: When the TV is set to VIDEO and video signal is not received from VIDEO INPUT JACK on the jack panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the screen will be gray-blue.

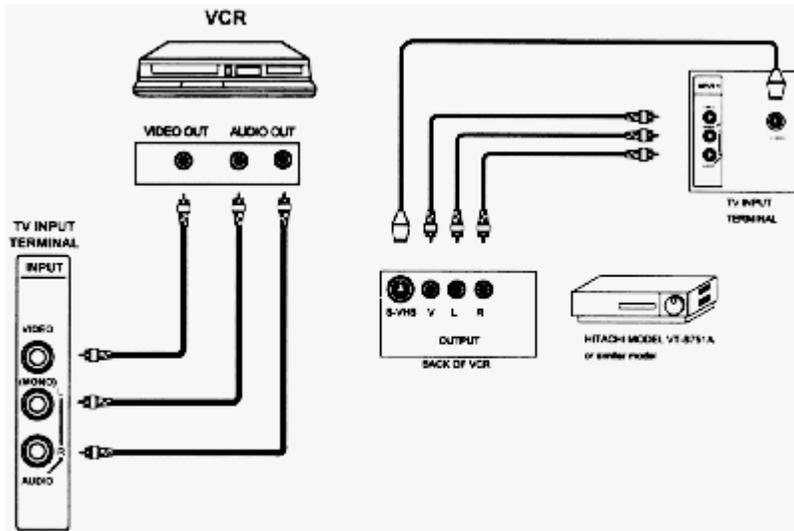
CONNECTING MONAURAL AUDIO VCR OR VIDEO DISC PLAYER

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack on the TV set below.
2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
3. Press the INPUT button to view the program from the VCR or laserdisc player. The VIDEO mode disappears automatically after approximately eight seconds.
4. Press the INPUT button to return to the previous channel.



CONNECTING STEREO VCR OR STEREO LASERDISC PLAYER

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack on the TV.
2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
4. Press the INPUT button to view the program from the VCR or laserdisc player. The mode VIDEO disappears automatically after approximately eight seconds.
5. Press the INPUT button to return to the previous channel.



NOTE: Completely insert the connection cord plugs when connecting to rear panel jacks. The picture that is played back will be abnormal if the connection is loose. If you have an S-VHS VCR, you can use the S-INPUT cable in place of the standard video cable.

HOW TO USE THE REMOTE TO CONTROL YOUR TV

A detailed explanation of the circled numbers follows on page 19 to 21.

Remote Control Illustration

1 TV POWER Button

Press this button to turn the TV set on or off.

2 TV/CABLE/VCR Button

Press these buttons to control your TV, cable/satellite or VCR. See remote control programming section for detailed explanation.

3 HELP Button

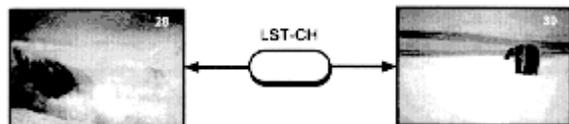
Press to display On-Screen Display help messages.

4 TV/PC Button

Press this button to toggle back and forth between TV and PC mode.

5 LAST CHANNEL (LST-CH) Button

Use this button to select between the last two channels viewed. (Good for watching two sporting events, etc.)



6, 12 CHANNEL SELECTOR Buttons

Enter two or three numbers to select channels. Enter 0 first for channels 1 to 9. For channels 100 and above, press the "1" button and wait for two seconds before pressing the last two digits of channel.

Channel selection may also be performed by pressing CH up (▲) or down (▼).

You may also use these buttons for channel scanning. Press and hold the CH up (▲) or down (▼) buttons and the TV will start quickly scanning through the channels. Release the CH up (▲) or down (▼) buttons when the TV scans to the channel you wish to watch and the TV will tune to that channel.

7, 8 VOLUME, MUTE Buttons

Press the VOLUME up (▲) or down (▼) button until you obtain the desired sound level.

To turn the sound off instantly to answer the telephone, etc., press the MUTE button. Press the MUTE button again or press the VOLUME up (▲) button to restore the sound.

9 COMMERCIAL SKIP (CS) Button

Press to activate 90-second commercial skip timer. You may change channel(s) and after the 90 seconds has lapsed, the TV will automatically tune back to your original channel.

NOTE: CS will be cancelled if you use the LST-CH or use Setup and Custom menus

10 MENU, EXIT and CURSOR buttons

All On-Screen Display features can be set or adjusted by using these buttons.

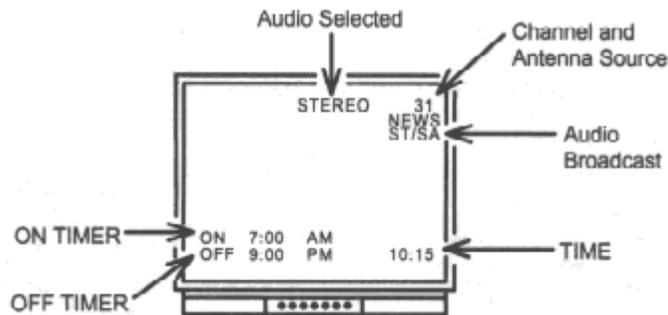
The MENU button will start the On-Screen Display.

The EXIT button will quit the On-Screen Display.

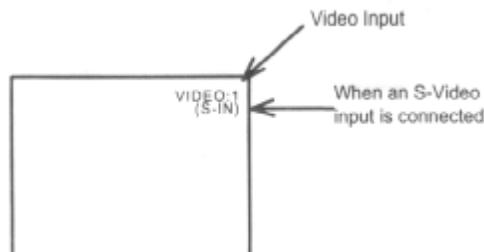
The CURSOR button will highlight functions or adjust and set different features. Pressing the cursor buttons will give you access to the FAMILY FAVORITES CHANNELS On-Screen Display.

11 RECALL BUTTON

Press this button to display audio selected, current channel, antenna source, audio broadcast, time and on/off time.



If a video input is used:

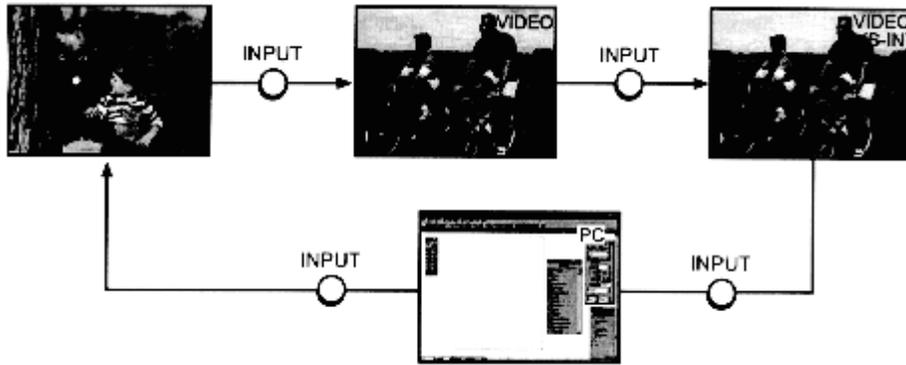


NOTE: You can also use the RECALL button to quickly clear many of the other On-Screen Displays.

13 INPUT Button

The INPUT button will select between the antenna signal and the video input jacks each time the button is pressed.

USING THE REMOTE TO CONTROL YOUR VCR FUNCTIONS- 16 -



14 SLEEP Button

Press this button to display the SLEEP TIMER in the lower left corner of the screen. Every subsequent press of this button will add 15 minutes to the timer, up to a maximum of three hours.

USING THE REMOTE TO CONTROL YOUR VCR FUNCTIONS

Operating the precoded function for your VCR

This remote is designed to operate different types of VCRs. You must first program the remote to match the remote system of your VCR. (Refer to page 26.)

1. Turn on your VCR.
2. Aim the remote control at the front of your VCR.
3. Press the VCR button to switch to the VCR precoded mode.
4. While holding down the VCR button on the remote, enter the two digit preset code that matches your VCR as shown on page 26. The remote will turn off your VCR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your VCR. If the VCR does not turn off after five seconds, try a different two digit preset code.
5. The remote will now control your VCR.

NOTES:

1. If your VCR cannot be operated after performing the above procedures, your VCR code has not been precoded into the remote.
2. In the unlikely event that your VCR cannot be operated after performing the above procedures, please consult your VCR operating guide.
3. The remote control will remember the codes you have programmed in until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure stated above.
4. If your VCR does not have a power function, the remote will issue the CHANNEL UP () function.

1 VCR Button

This allows the remote to control your VCR by setting it to VCR mode.

2 PRECODED VCR Buttons

These buttons transmit the chosen precoded VCR codes.

3 EXCLUSIVE TV Buttons

These buttons are for operating the TV.

If your VCR is a Hitachi brand, the MENU button will start your VCR on-screen display.

4 LST-CH Button

If your VCR has an "ENTER" function, this button will send the chosen VCR "+ ENTER" code.

5 SLEEP Button

If your VCR has a "+100" function, this button will send the chosen VCR "+100" code.

NOTE: To use VCR RECORD, press the REC button twice.

USING THE REMOTE TO CONTROL CABLE/SATELLITE BOX FUNCTIONS

A detailed explanation of the circled numbers follows page 25.

Remote Control Illustration

Operating the precoded function for your cable/satellite box.

This remote is designed to operate different types of cable boxes and digital satellite systems. You must first program the remote to match the remote system in your cable/satellite box. (Refer to page 26.)

1. Turn on your cable/satellite box.
2. Aim the remote control at the front of your cable/satellite box.
3. Press the CABLE button to switch to cable/satellite box mode.
4. While holding down the CABLE button, enter the two digit preset code that matches your cable/satellite box as shown on page 26. The remote will turn off your cable/satellite box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable/satellite box. If the cable/satellite box does not turn off after five seconds, try another two digit preset code.
5. The remote will now control your cable/satellite box.

NOTES:

1. If your cable/satellite box cannot be operated after performing the above procedures, your cable/satellite box code has not been precoded into the remote.
2. In the unlikely event that your cable/satellite box cannot be operated after performing the above procedures, please consult your cable/satellite box operating guide.
3. The remote control will remember the codes you have programmed in until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure stated above.
4. If your cable/satellite box does not have a power function, the remote will issue the CHANNEL UP () function.

1 CABLE Button

This button allows the remote to control your cable/satellite box by setting it to CABLE/SATELLITE mode.

2 PRECODED CABLE/SATELLITE BOX Buttons

These buttons transmit the chosen precoded CATV and satellite codes.

3 EXCLUSIVE TV Buttons

These buttons are for operating the TV.

4 LST-CH Button

If your cable/satellite box has an enter function, this button will send the cable/satellite box enter code.

5 SLEEP Button

If your cable/satellite box has a "+100" function, this button will send the cable/satellite "+100" code.