

51S700  
57S700  
65S700

# OPERATING GUIDE



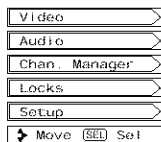
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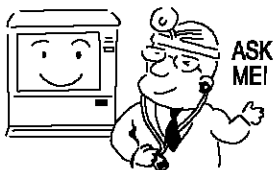
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As an ENERGY STAR® Partner, Hitachi, Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.





## SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI TELEVISION

Our reputation has been built on the quality, performance, and ease of service of HITACHI televisions.

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.

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 product model.

Follow all warnings and instructions marked on this television.

	<p><b>CAUTION</b></p> <p>RISK OF ELECTRIC SHOCK DO NOT OPEN</p>			<p>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 a sufficient magnitude to constitute a risk of electric shock to persons.</p>
<p>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.</p>				<p>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.</p>

**WARNING:**

- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TELEVISION TO RAIN OR MOISTURE.
- THE TELEVISION SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE TELEVISION.

**NOTE:**

- There are no user serviceable parts inside the television.
- Model and serial numbers are indicated on back side of the television.

**CAUTION:** Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by HITACHI could void the user's authority to operate the television.



**MODIFICATIONS:** The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. Home Electronics Division may void the user's authority to operate the equipment.


**POWER SOURCE**

**THIS TELEVISION IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE POWER CORD INTO A 120 VOLT 60Hz OUTLET.**

**TO PREVENT ELECTRIC SHOCK, DO NOT USE THE TELEVISION'S (POLARIZED) 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 TELEVISION TO 50Hz, 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 and 15.122 of the FCC rules.

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


# IMPORTANT



## Read before operating equipment

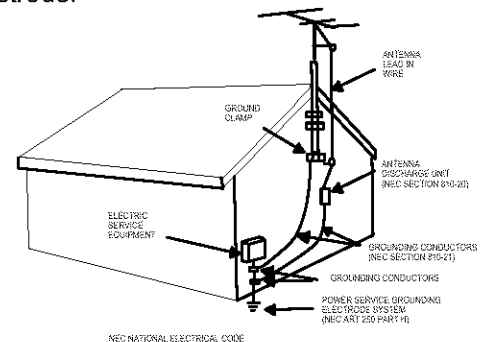
Follow all warnings and instructions marked on this television.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.

12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



Note to the CATV system installer: 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.

**Do not place any objects on the top of the television which may fall or cause a child to climb to retrieve the objects.**

**Disposal of this product may require specific instructions pertaining to your resident state. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org).**

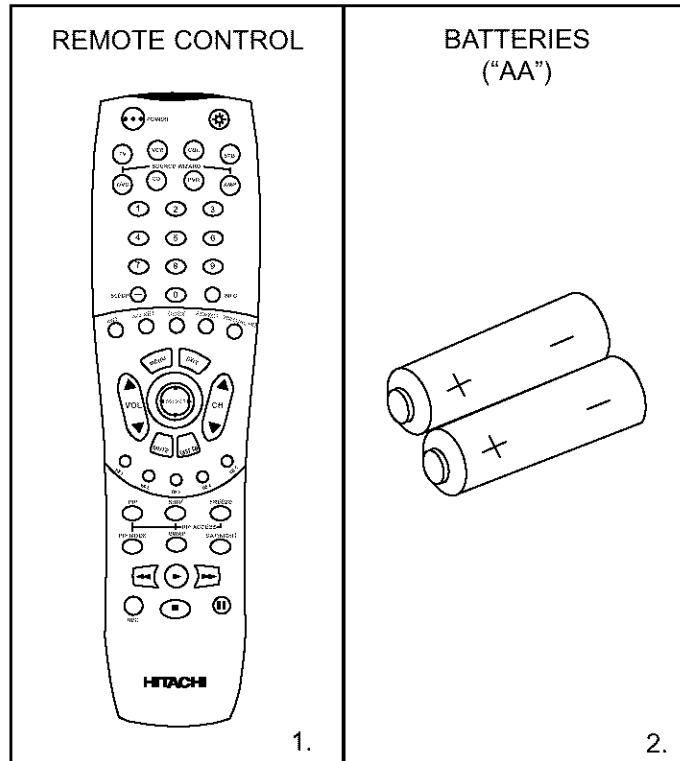
**Projection TV's are heavy and can mark or damage floor surfaces (especially wood flooring) if moved improperly. Do not slide or force TV into position. Always roll TV allowing casters at bottom of unit to help steer and position the TV.**

**PREVENTION OF SCREEN BURN**  
This Wide Screen TV is designed to display wide screen pictures. Images should be viewed mostly in wide screen format or zoomed to fill the screen with moving pictures. Use of side panels, top and bottom panels of standard picture formats should only be 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas. 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 television receivers. Such "SCREEN BURNS" constitute misuse and are **NOT COVERED** by your HITACHI Factory Warranty.

**PUBLIC VIEWING OF COPYRIGHTED MATERIAL**  
Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.



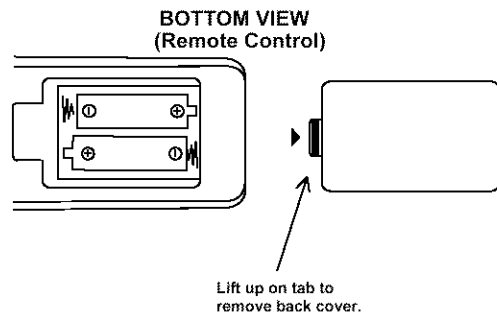
Check to make sure you have the following accessories before disposing of the packing material.



1. Remote Control Unit CLU-5724TSI (Part No. HL01824).
2. Two "AA" size, 1.5V batteries (For Remote Control Unit).

## 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 and pulling the cover off.
2. Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
3. Match the batteries to the (+) and (-) marks in the battery compartment.
4. Replace the cover.



**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace with the same or equivalent type.



# HOW TO SET UP YOUR NEW HITACHI PROJECTION TV

FIRST TIME USE

## ANTENNA

Unless your TV is connected to a cable TV system or to a centralized antenna system, a good outdoor TV antenna is recommended for 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 perforated 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.

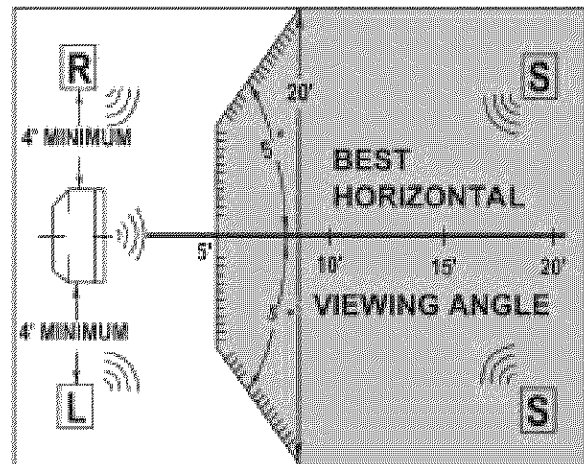
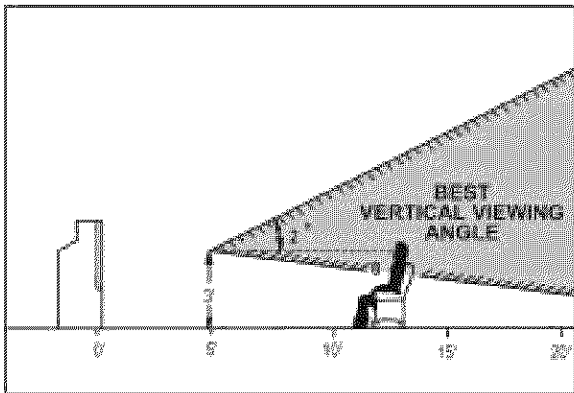
## VIEWING

The major benefit of the HITACHI Projection Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen. Picture brightness decreases as the viewer moves to the left and right of the receiver.

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 four 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.



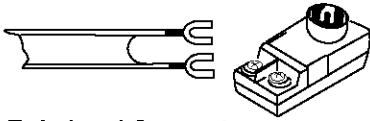
**CAUTION:** Magnetic fields, such as those of external speakers, may cause the picture to distort if they are placed too close to the television. Move the magnetic field source away from the television until there is no picture distortion.



# HOOK-UP CABLES AND CONNECTORS

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.

FIRST TIME USE



### 300-Ohm Twin Lead Connector

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).



### 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.



### IEEE1394 Cable

This cable is used to connect your digital television to external digital devices.



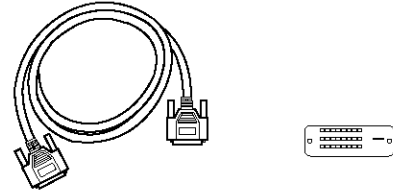
### "F" Type 75-Ohm Coaxial Antenna Connector

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.



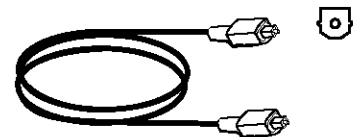
### S-Video (Super Video) Connector

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.



### Digital Visual Interface (DVI) Connection Cable

This cable is used to connect external devices with DVI-HDTV output capability.



### Optical Cable

This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.

## ANTENNA CONNECTIONS TO REAR JACK PANEL

### VHF (75-Ohm) antenna/CATV (Cable TV)

When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna or cable TV system, connect the coaxial cable to the ANT B terminal.

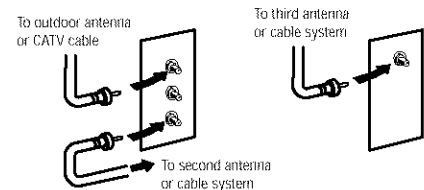
To receive HDTV programs via the outdoor antenna or an un-encrypted digital Cable connection, connect to ANT C (DTV).

### VHF (300-Ohm) antenna/UHF antenna

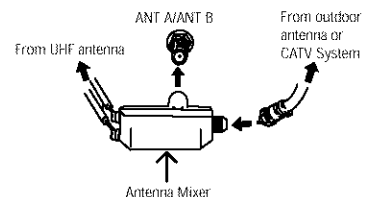
When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.

### When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.



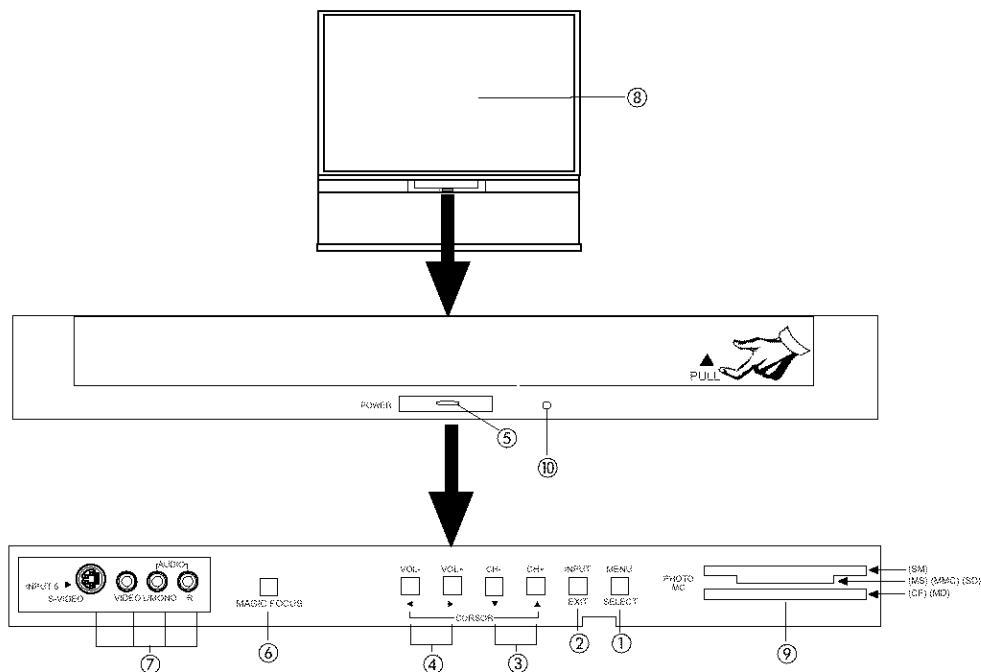
To outdoor VHF or UHF antenna





# FRONT PANEL CONTROLS

FIRST TIME USE



## ① MENU/SELECT button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

## ② INPUT/EXIT button

Press this button to select the current antenna source, VIDEO: 1, 2, 3, 4, 5 or alternate antenna source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

**NOTES:** Your remote control does not have an INPUT button. To change to video inputs, press VID1~VID5 buttons depending on your choice (see page 29).

## ③ CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

## ④ VOLUME level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode. When the TV power is turned OFF at a volume level 31 or greater, the volume level will default to 30 when the TV is turned ON. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

## ⑤ POWER button

Press this button to turn the TV on or off.

## ⑥ MAGIC FOCUS

Use this button to automatically adjust your picture quality to optimum performance (see page 63).

## ⑦ FRONT INPUT JACKS (INPUT 5)

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUT/EXIT button on the front control panel until VIDEO: 5 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

## ⑧ IR RECEIVER sensor

The screen area acts as the IR receiver (remote sensor). When using the remote control, point it towards the screen for best response.

## ⑨ PHOTO MC

Insert Photo memory card to view your digital still pictures (see page 24).

## ⑩ PHOTO MC LED Light Indicator

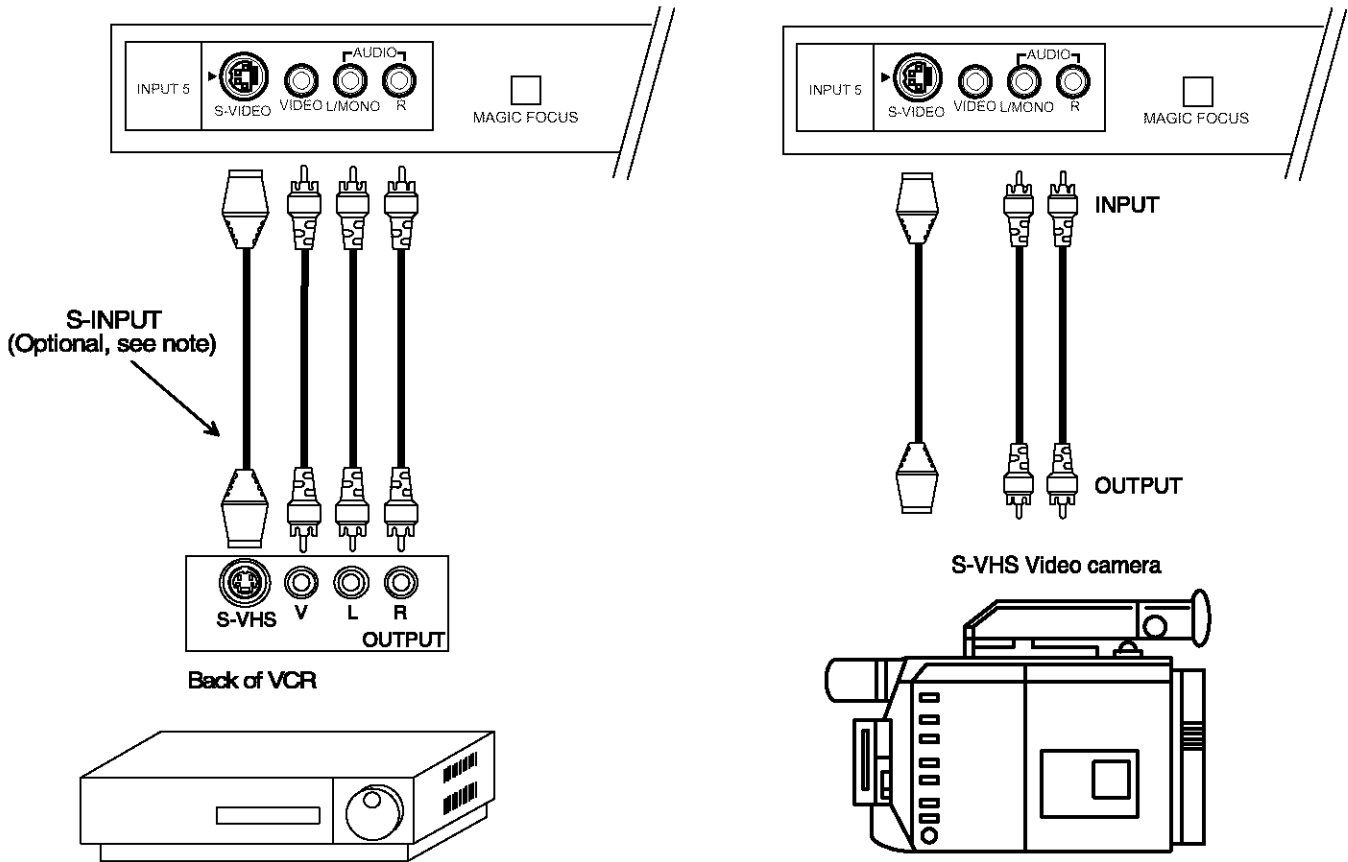
Shows the status of the memory card (see page 24).



# FRONT PANEL JACKS AND CONNECTORS

FIRST TIME USE

The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:



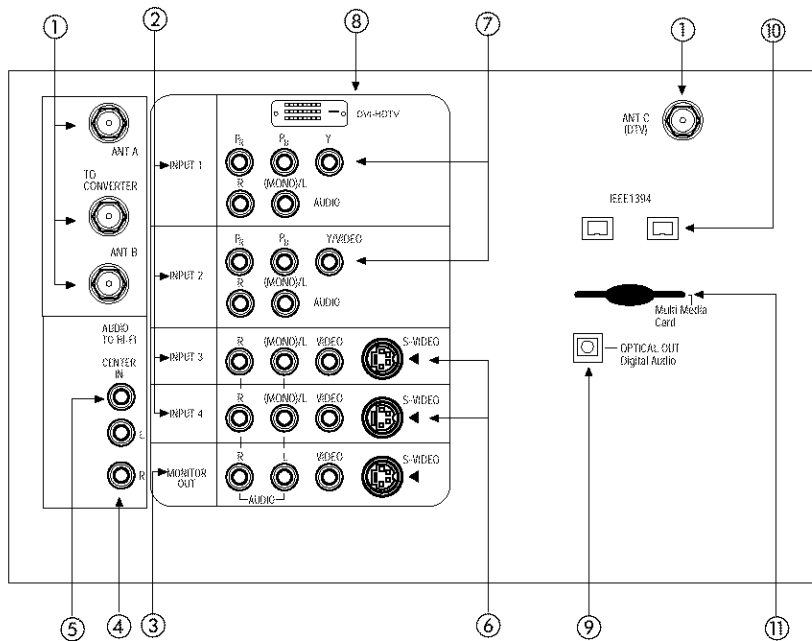
- NOTE:**
1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal.
  2. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.
  3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.





# REAR PANEL JACKS

FIRST TIME USE



## ① Antenna Input/Output

**ANT A-** A 75-Ohm RF antenna or CATV (Cable TV) input. ANT A can be displayed as a main picture or sub-picture.

**ANT B-** A 75-Ohm RF antenna or CATV (Cable TV) input. ANT B can only be displayed as a main picture. ANT B cannot be displayed as a sub-picture.

**TO CONVERTER-** This antenna output allows the ANT A connection to pass directly to a different source, such as a cable box, only when ANT B is displayed as a main picture.

**ANT C-** A 75-Ohm RF antenna or un-encrypted digital CATV (Cable TV) input. ANT C can be displayed as a main picture or sub-picture. ANT C is used to receive digital broadcast signals.

**NOTE:** You may ask your local cable company whether DTV services are available.

## ② Audio/Video Inputs 1, 2, 3 and 4

The VID1~VID4 buttons will select each video source each time they are pressed. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (If you have mono sound, insert the audio cable into the left audio jack.)

**NOTE:** You may use VIDEO or S-VIDEO inputs to connect to INPUT 3 and 4, but only one of these inputs may be used at a time.

## ③ MONITOR OUT

These jacks provide fixed audio and video signals which are used for recording. Use the S-VIDEO Output for high quality video output.

**NOTE:** Only ANT C source and the input of an S-VIDEO signal will output S-VIDEO.

## ④ AUDIO TO HI-FI Output

These jacks provide variable audio output to a separate stereo amplifier. With this connection, the audio to the stereo can be controlled by the television's main volume.

## ⑤ CENTER IN (Input)

This jack is for stereo amplifiers with center signal capability. This feature allows the TV speakers to be used as a center speaker. The TV must be set as a center channel by selecting "TV as Center" on the Internal Speakers Settings of the Audio Menu (see page 47).

## ⑥ S-VIDEO Inputs 3 and 4

Inputs 3 and 4 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.



## ⑦ Component: Y-P<sub>B</sub>P<sub>R</sub> Inputs

Inputs 1 and 2 provide Y-P<sub>B</sub>P<sub>R</sub> jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for INPUT:2.

- NOTES:**
1. Do not connect composite VIDEO and S-VIDEO to Input 3, 4 or 5 at the same time. S-VIDEO has priority over VIDEO input.
  2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P<sub>B</sub> input and the components R-Y output to the TV's P<sub>R</sub> input.
  3. Your component outputs may be labeled Y-C<sub>B</sub>C<sub>R</sub>. In this case, connect the component C<sub>B</sub> output to the TV's P<sub>B</sub> input and the component C<sub>R</sub> output to the TV's P<sub>R</sub> input.
  4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P<sub>B</sub>P<sub>R</sub> inputs (see page 44).
  5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P<sub>B</sub>P<sub>R</sub> jacks or ANT C.
  6. Input 2 (Y/VIDEO) can be used for composite video and component video input.

## ⑧ DVI-HDTV Input (Input 1)

Use this DVI-HDTV Input for your external devices with DVI-HDTV output such as a Set-Top-Box, high-band DTV decoders, DVD players with Digital Content Protection.

- NOTES:**
1. Only DTV format such as 1080i, 720p, 480i and 480p are available for DVI-HDTV input.
  2. When connecting a Set-Top-Box with a copy-protect digital out terminal, a high definition picture can be displayed on the screen in its digital form.

## ⑨ Optical Out (Digital Audio)

This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

## ⑩ IEEE1394

These jacks provide a digital interface for your external digital devices, such as a Digital VCR (D-VHS or Set-Top-Box) by means of a single cable (see page 26). When using IEEE1394 connections, you enable video and audio digital data exchange between a compatible device. This connection also enables you to control basic equipment functions (such as VCR play, rewind, fast forward, stop, etc.) from your TV On-Screen Display.

## ⑪ Multi Media Card Slot

This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

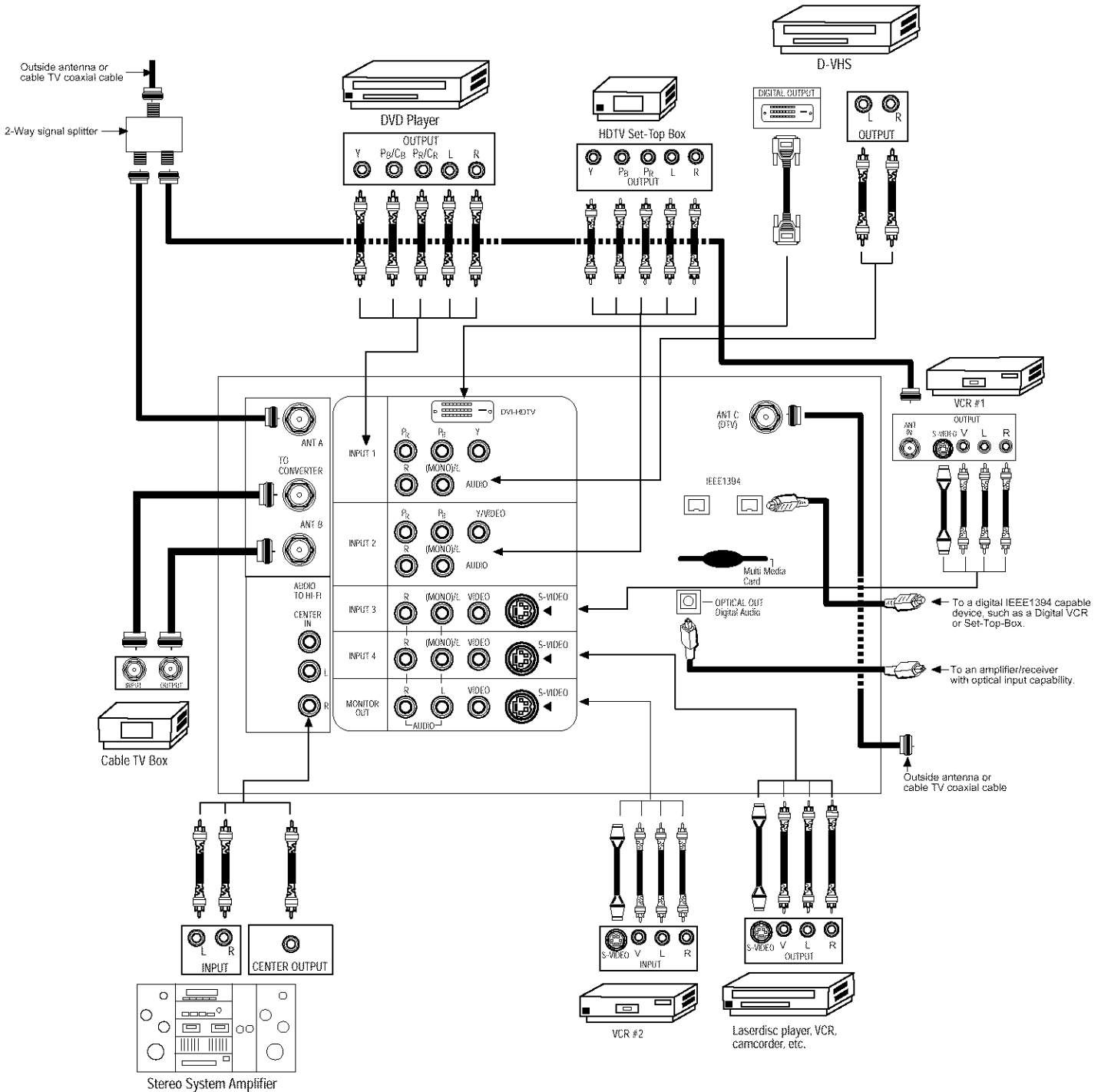
**NOTE:** \*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

# REAR PANEL CONNECTIONS



## TYPICAL FULL-FEATURE SETUP

FIRST TIME USE



- NOTES:**
1. Connect only 1 component to each input jack.
  2. Follow connections that pertain to your personal entertainment system.
  3. Composite video signal can be input to Input2~Input5.
  4. Cables are not included with the purchase of this TV, except when noted as "provided".



## TIPS ON REAR PANEL CONNECTIONS

### FIRST TIME USE

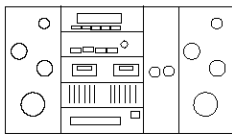
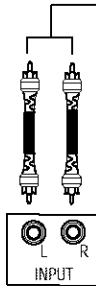
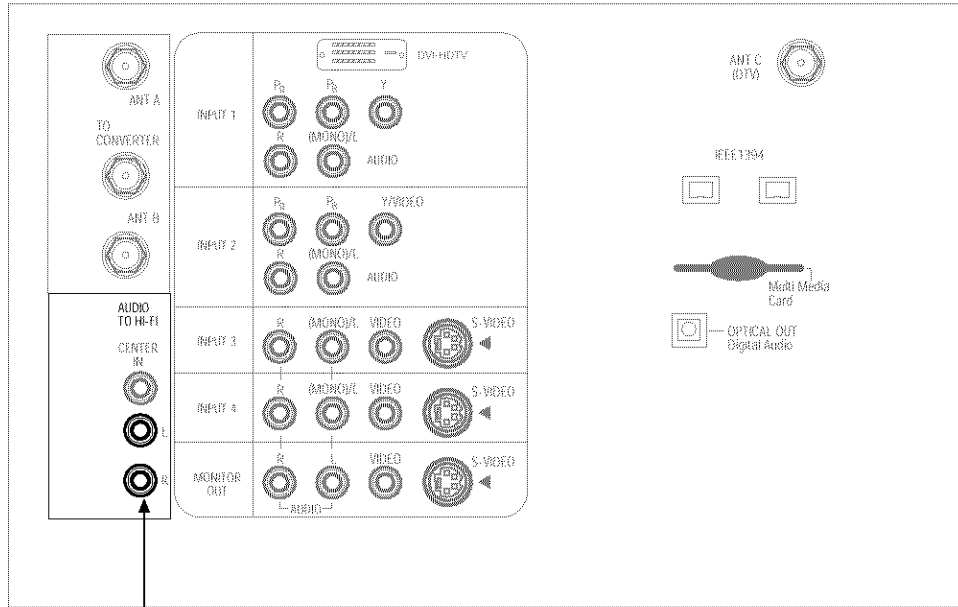
- S-VIDEO connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on the television.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 3 in the example on page 11). Refer to your VCR operating guide for more information on line input-output connections.
- You may use VIDEO or S-VIDEO inputs to connect to Input 3, Input 4 or Input 5, but only one of these may be used at a time.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-P<sub>B</sub>P<sub>R</sub> (Input 1 & 2) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature. Input 2 accepts both composite and component video signals.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P<sub>B</sub> input and the components R-Y output to the TV's P<sub>R</sub> input.
- Your component outputs may be labeled Y-C<sub>B</sub>C<sub>R</sub>. In this case, connect the components C<sub>B</sub> output to the TV's P<sub>B</sub> input and the components C<sub>R</sub> output to the TV's P<sub>R</sub> input.
- You may use composite video signal for Input 2~Input 5.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P<sub>B</sub>P<sub>R</sub> inputs (see page 44).
- To ensure no copyright infringement, the MONITOR OUT output may be abnormal, when using the Y-P<sub>B</sub>P<sub>R</sub> jacks and ANT C.
- When using IEEE1394 connections, you enable video and audio digital data exchange between a compatible device. This connection also enables you to control basic equipment functions (such as VCR play, rewind, fast forward, stop, etc.) from your TV On-Screen Display.
- The TV's IEEE1394 rear panel jacks are not compatible with DV-CAM (Digital Video Camera) IEEE1394 connections.
- Not all devices with IEEE1394 capability are compatible with this TV. Any compatibility problems with other manufacturers devices should be brought to the attention of those manufacturers.
- When using DVI input from a Set-Top-Box, it is recommended to use a 1080i or 720P input signal.



# CONNECTING EXTERNAL AUDIO DEVICES

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

## REAR PANEL OF TELEVISION



Stereo System Amplifier

FIRST TIME USE

- NOTES:**
1. To prevent damage to the speaker and distorted sound, set the volume control of the audio amplifier lower and adjust the sound using the remote control of the TV set.
  2. Follow connections that pertain to your personal entertainment system.
  3. See Internal Speakers on page 47.



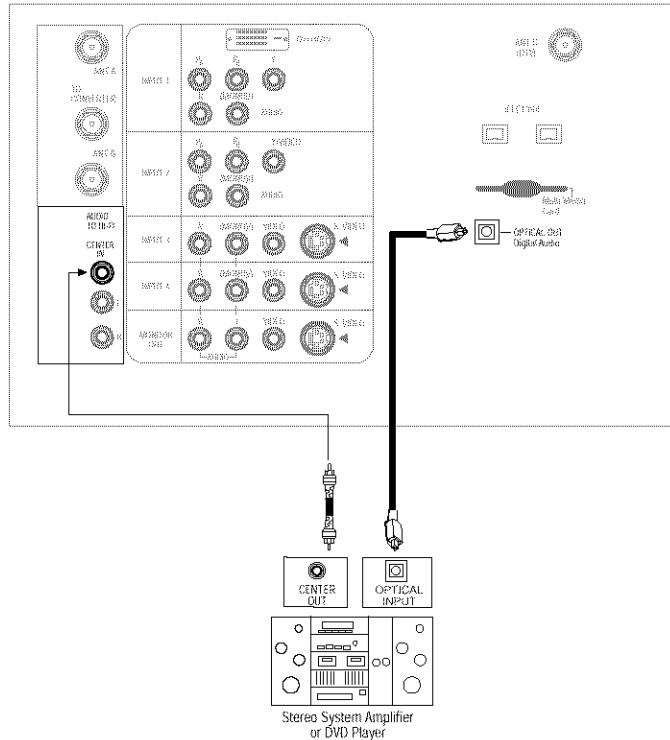
# CONNECTING EXTERNAL AUDIO SOURCES

FIRST TIME USE

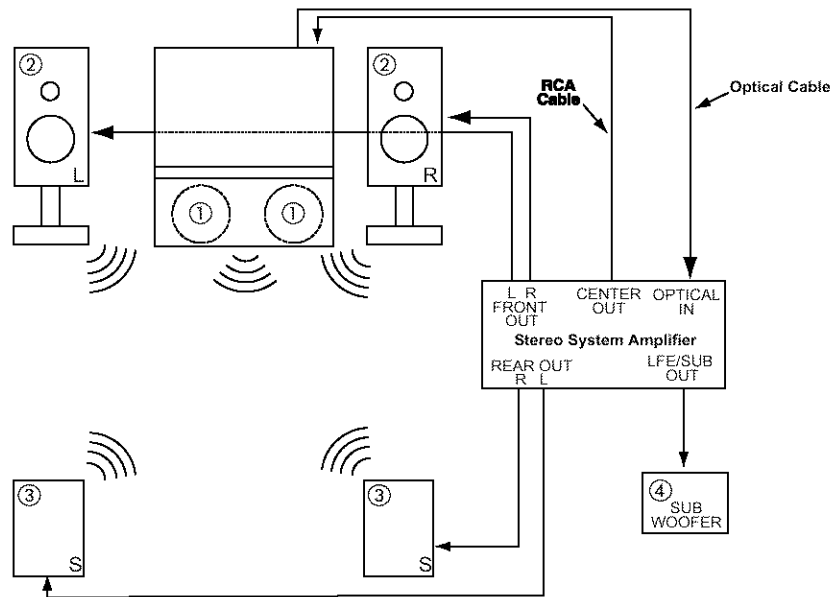
Match the numbers below to the diagram for speaker placement.

- ① The television's internal speakers will act as center speaker (select Audio-Internal Speakers-TV as Center).
- ② These FRONT left and right speakers are connected to the FRONT output of a separate audio amplifier.
- ③ These REAR left and right speakers are connected to the REAR output of a separate audio amplifier.
- ④ This subwoofer is connected to the LFE/Sub Out output of a separate audio amplifier.

## REAR PANEL OF TELEVISION



## TYPICAL STEREO SYSTEM SETUP



- NOTES:**
- 1. The Optical Out (Digital Audio) provides a fixed digital audio output to your external component such as an A/V receiver with optical input capability. The audio level can only be controlled through the volume control of the external audio amplifier.
  - 2. See page 49 for AUDIO-Digital Output.



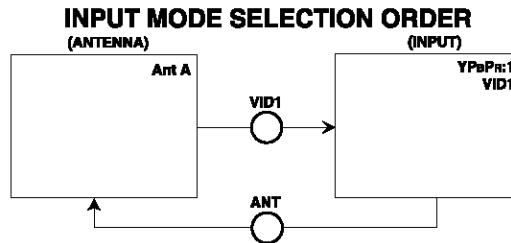
# CONNECTING EXTERNAL VIDEO SOURCES

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your TV set is dependent on the model and features of each component. Check the owner's 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 every time the VID1~VID5 button is pressed as shown below. Connect an external source to the INPUT terminal, then press the VID1~VID5 button as necessary to view the input source (see page 29).

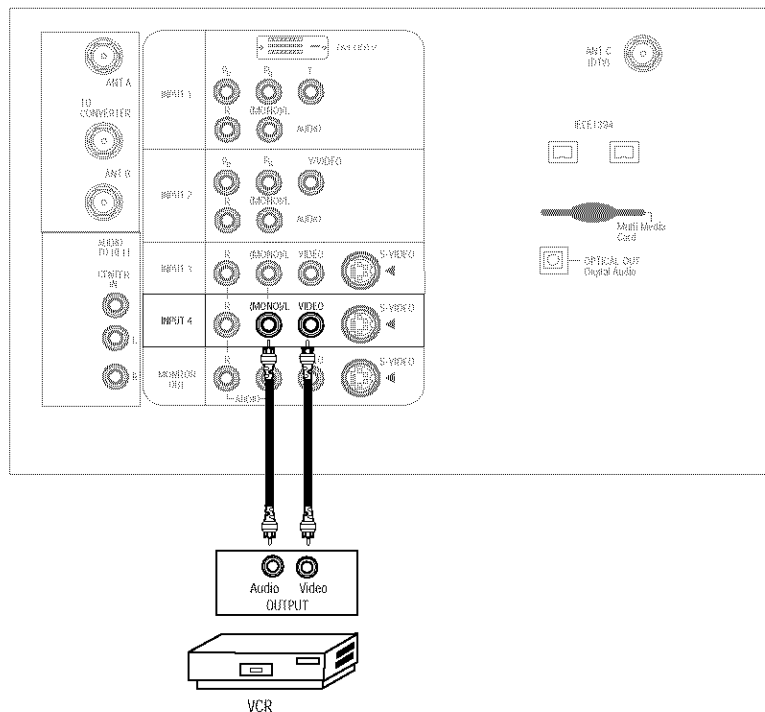


**NOTE:**

1. When the TV is set to VIDEO and a video signal is not received from the VIDEO INPUT JACK on the back panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the set will appear to be OFF.
2. You may select other Input sources by IEEE 1394 (see page 26).

## CONNECTING A MONAURAL AUDIO SOURCE TO INPUT2~INPUT5

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown 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 VID2~VID5 button to view the program from the VCR or the laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
4. Press the ANT button to return to the previous channel.



FIRST TIME USE

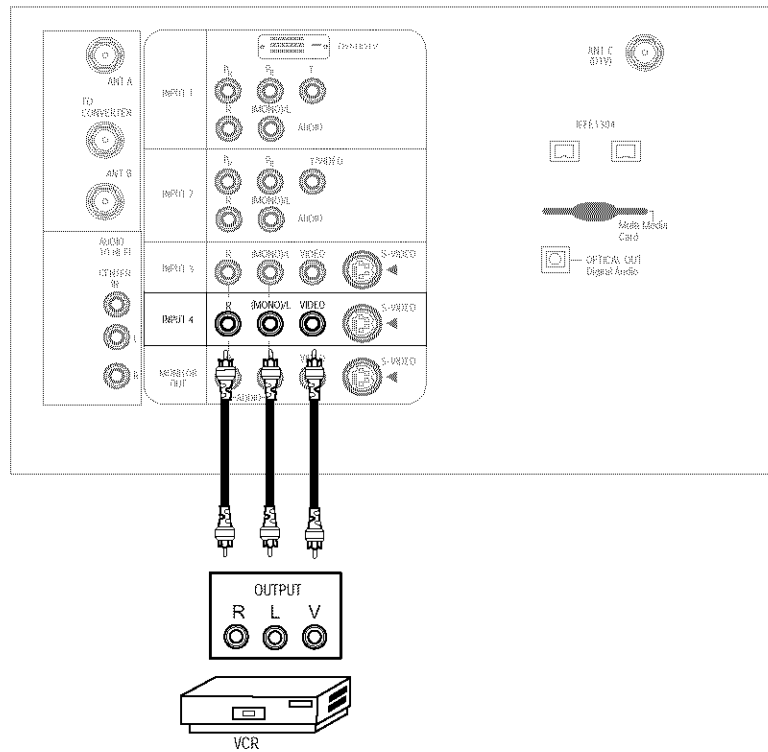


# CONNECTING EXTERNAL VIDEO SOURCES

FIRST TIME USE

## CONNECTING A STEREO SOURCE TO INPUT2~INPUT5

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set below.
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 VID2~VID5 button to view the program from the VCR or laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
5. Press the ANT button to return to the previous channel.



- NOTES:**
1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
  2. A single VCR can be used for VCR #1 and VCR #2 (see page 11), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.



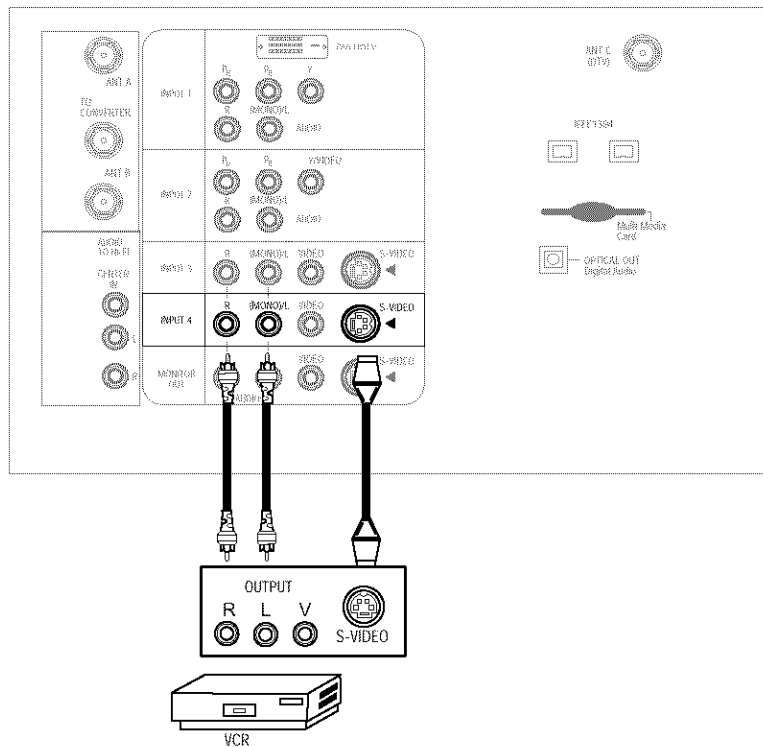


# CONNECTING EXTERNAL VIDEO SOURCES

FIRST TIME USE

## CONNECTING AN S-VIDEO SOURCE TO INPUT 3, 4 AND 5

1. Connect the cable from the S-VIDEO OUT of the VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the TV set below.
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 VID3~VID5 button to view the program from the VCR or laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
5. Press the ANT button to return to the previous channel.



**NOTES:**

1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
2. A single VCR can be used for VCR #1 and VCR #2 (see page 11), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.

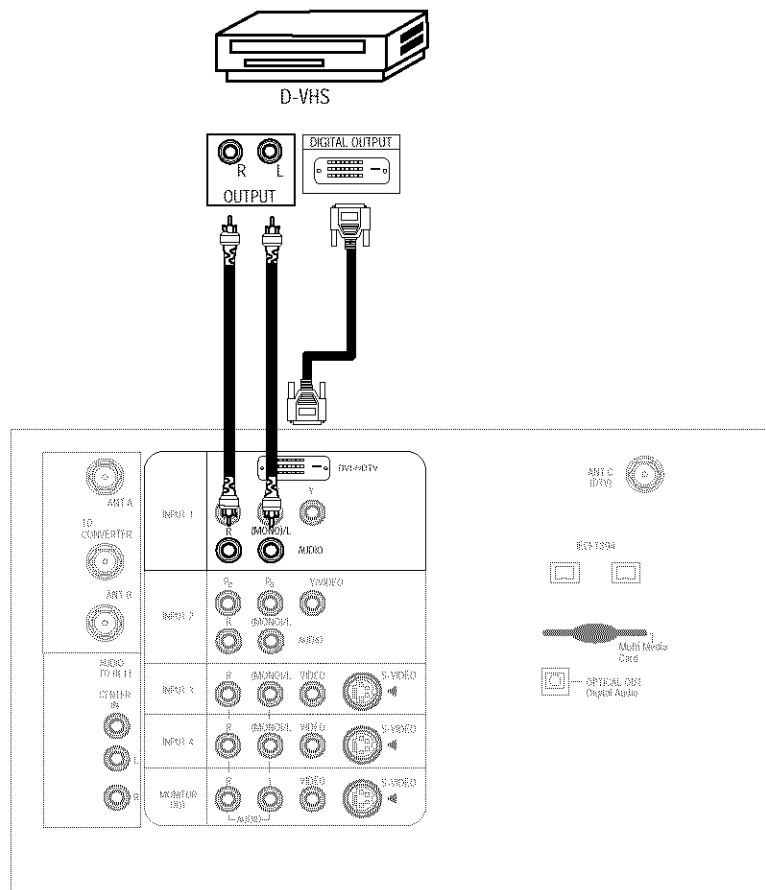


# CONNECTING EXTERNAL VIDEO SOURCES

FIRST TIME USE

## CONNECTING A COMPONENT SOURCE WITH DVI-HDTV CAPABILITY TO INPUT 1

1. Connect the DVI connection cable from the output of the HDTV set top box or DVD player to the DVI-HDTV input as shown on the TV set below.
2. Connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack.
3. Connect the cable from the AUDIO OUT L of the HDTV set top box or DVD player to the INPUT (AUDIO/L) jack.
4. Press the VID1 button to view the program from the HDTV set top box or DVD player. The VIDEO OSD label disappears automatically after approximately four seconds.
5. Press the ANT button to return to the previous channel.



- NOTES:**
1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
  2. The DVI-HDTV input on INPUT 1 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using DVI connections to prevent illegal copying of video contents.
  3. DVI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.
  4. The connected digital output device controls the DVI interface so proper set-up of device user settings determines final video appearance.

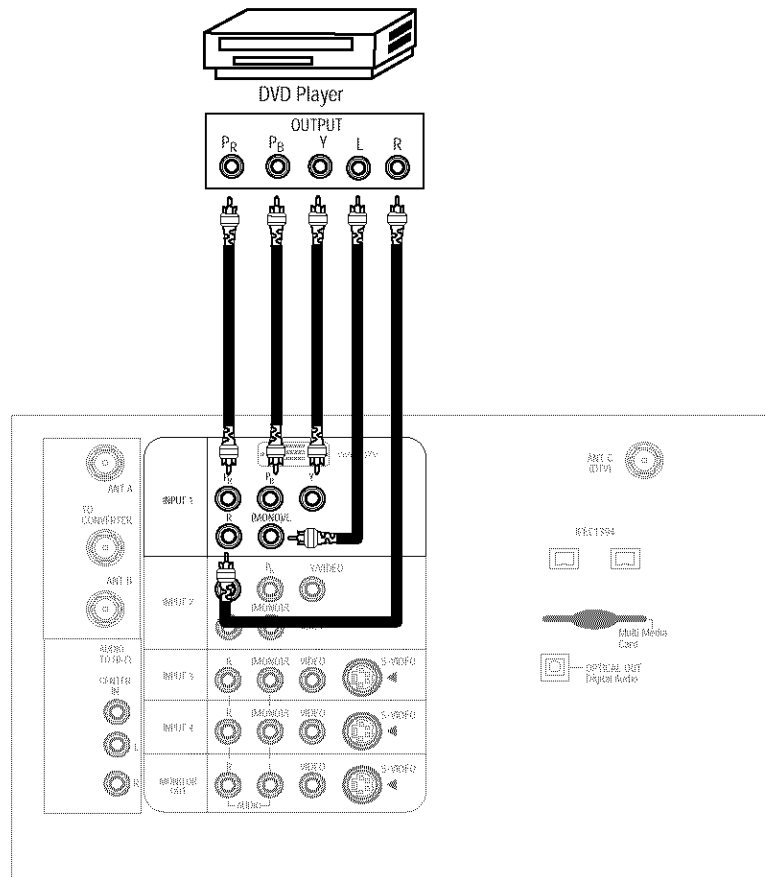


# CONNECTING EXTERNAL VIDEO SOURCES

FIRST TIME USE

## CONNECTING A COMPONENT SOURCE TO INPUT 1 OR 2: Y-P<sub>B</sub>P<sub>R</sub>.

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set below.
2. Connect the cable from the C<sub>B</sub>/P<sub>B</sub> OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>B</sub>) jack.
3. Connect the cable from the C<sub>R</sub>/P<sub>R</sub> OUT or R-Y OUT of the laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>R</sub>) jack.
4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
6. Press the VID1 or VID2 button, to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO OSD label disappears automatically after approximately four seconds.
7. Press the ANT button to return to the previous channel.



**NOTES:**

1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
2. See page 12 for tips on REAR PANEL CONNECTIONS.

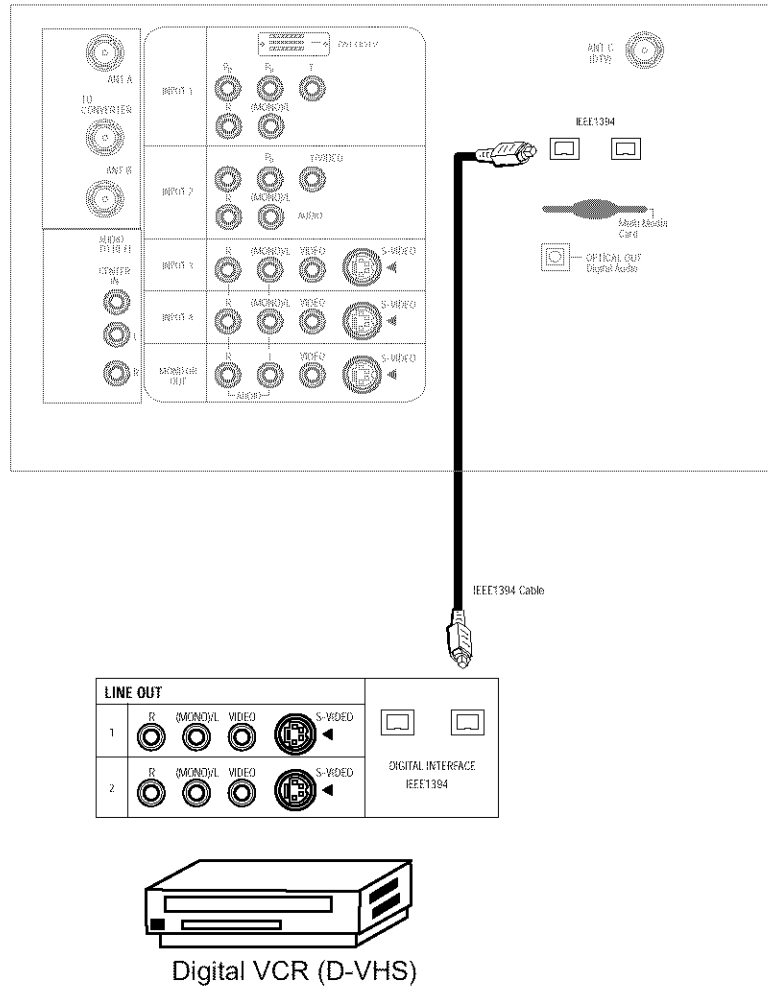


# CONNECTING EXTERNAL VIDEO SOURCES

FIRST TIME USE

## CONNECTING A COMPONENT SOURCE WITH DIGITAL INTERFACE CAPABILITY TO IEEE1394 TERMINALS

1. Connect the IEEE1394 cable from the output of the component with IEEE1394 capability, such as a Set-Top-Box or Digital VCR, to the IEEE1394 input terminals shown on the TV set below. IEEE 1394 allows the television and the external device to communicate with one another. When using IEEE1394 connections, you enable video and audio digital data exchange between a compatible device. This connection also enables you to control basic equipment functions (such as VCR play, rewind, fast forward, stop, etc.) from your TV On-Screen Display.
2. Press the AV NET button on the Remote Control.
3. Select chosen IEEE1394 device (see page 26).



- NOTES:**
1. To quickly enter IEEE1394 menu, press the AV NET button on the remote control and then select the IEEE1394 device.
  2. This TV's IEEE1394 connection is not compatible with a DV camcorder (Digital Video camcorder) and a PC.
  3. With IEEE1394 connection, video and audio will be received by the TV. It will enable you to control the D-VHS from the TV IEEE1394 menu (see page 26).
  4. The IEEE1394 interface contains the copy protection standard called 5C or Digital Transmission Content Protection (DTCP).
  5. This TV does not support full network control of several IEEE1394 devices simultaneously (the IEEE1394 will disconnect from 1st device when making connection to 2nd device).
  6. See page 12 for tips on Rear Panel Connections.



# THE REMOTE CONTROL

In addition to controlling all the functions on your HITACHI Projection TV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-box, satellite receiver, DVD players, and other audio/video equipment with one touch. Basic operation keys are grouped together in one area.

To operate your TV, point the remote control at the screen of the TV and press the TV button. The TV button will blink, indicating that the remote will now control your television.

To operate your VCR, point the remote at the remote sensor of the VCR and press the VCR button. The VCR button will blink, indicating that the remote will now control your VCR (see page 34 for instructions on how to program the remote to control your VCR).

To operate your cable box, point the remote at the remote sensor of the cable box and press the CABLE (CBL) button. The CBL button will blink, indicating that the remote will now control your cable box (see page 35 for instructions on how to program the remote to control your cable box).

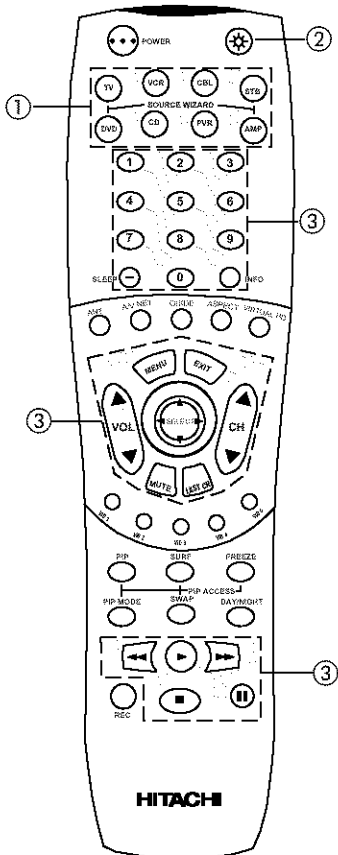
To operate your set-top-box or satellite receiver point the remote at the remote sensor of the set-top-box and press the SET-TOP-BOX (STB) button. The STB button will blink, indicating that the remote will now control your set-top-box. If you have a satellite receiver, use this button to program your satellite receiver (see page 36 for instructions on how to program the remote to control your set-top-box).

To operate your DVD player, point the remote at the remote sensor of the DVD player and press the DVD button. The DVD button will blink, indicating that the remote will now control your DVD player (see page 37 for instruction on how to program the remote to control your DVD player).

To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and press the PVR button. The PVR button will blink, indicating that the remote will now control your PVR (see page 38 for instruction on how to program the remote to control your PVR).

To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and press the CD or AMP button. This button will blink, indicating that the remote will now control the desired component (see page 39 for instructions on how to program the remote to control additional Audio/Video equipment).

THE REMOTE CONTROL



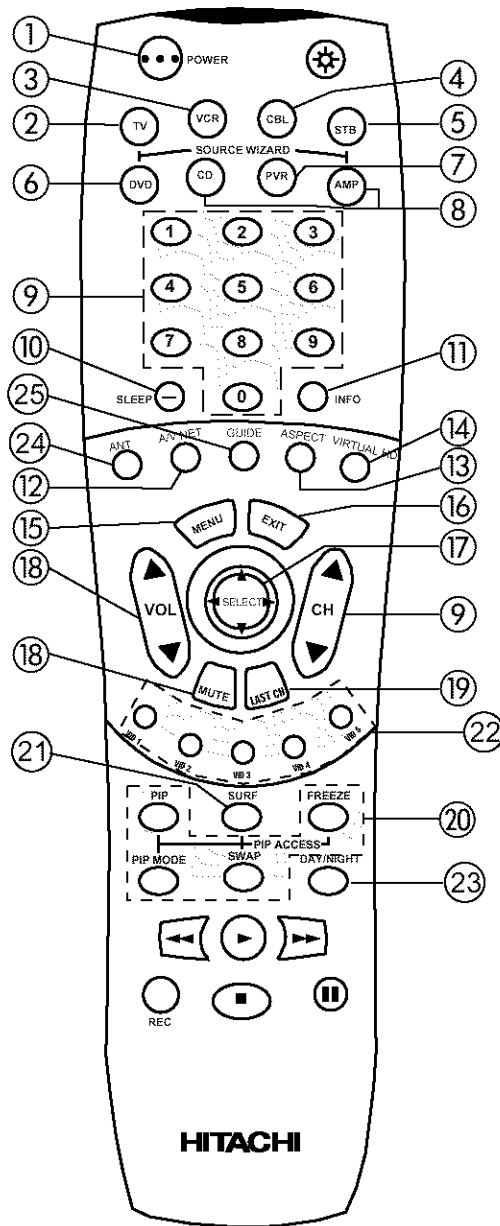
① These buttons allow the remote to control your TV, VCR, cable box, satellite receiver, DVD player, or other Audio/Video equipment depending on which mode is chosen, as explained above.

②,③ LIGHT BUTTON  
When you are in a dark room, press the light button ② on the remote to light up the buttons shown in ③ and the source button will blink. The light will stay on for about 8 seconds if the light button is not pressed again. These buttons will not appear to light if the room is too bright.



# HOW TO USE THE REMOTE TO CONTROL YOUR TV

THE REMOTE CONTROL



- ① **POWER button**  
Press this button to turn the TV set on or off when the remote is in TV mode. (See page 21 for instructions on how to set the remote control to TV mode.)
- ② **TV button**  
When the TV button is pressed, it will blink, to indicate the remote is in TV mode.
- ③ **VCR button**  
When the VCR button is pressed, it will blink to indicate the remote is in VCR mode (see page 34).
- ④ **CABLE (CBL)**  
When the CABLE button is pressed, it will blink to indicate the remote is in CABLE mode (see page 35).
- ⑤ **SET-TOP-BOX (STB)**  
When the STB button is pressed, it will blink to indicate the remote is in STB mode (see page 36).  
If you have a Satellite receiver, use this button to program your Satellite receiver (see page 36).
- ⑥ **DVD button**  
When the DVD button is pressed, it will blink to indicate the remote is in DVD mode (see page 37).
- ⑦ **PVR (Personal Video Recorder) button**  
When pressed, this button will blink to indicate the remote is in PVR mode (see page 38).

# HOW TO USE THE REMOTE TO CONTROL YOUR TV



## 8 CD, AMP buttons

When pressed, each of these buttons will blink to indicate the remote is in Audio mode (see page 39).

## 9 CHANNEL selector buttons

CHANNEL selector buttons are used to select channels, lock access code, etc.

Enter one, two, or three numbers to select channels. Enter "0" first for channels 1 to 9, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. For channels 100 and above, press the "1" button, wait until two dashes appear next to the channel display on your TV, then enter the remaining two numbers using the number buttons. Channel selection may also be performed by pressing CH up (▲) or down (▼).

When in ANT C, digital channels are indicated by the use of a (-) DASH in the subchannel number (for example "15-1"). Press buttons [0], [1], [5], [1] to tune to subchannel 15-1 or buttons [0], [1], [5], [0], [0], [1].

**NOTE:** The TV may not receive some channels if you are not in the correct ANTENNA/CABLE mode (see page 51).

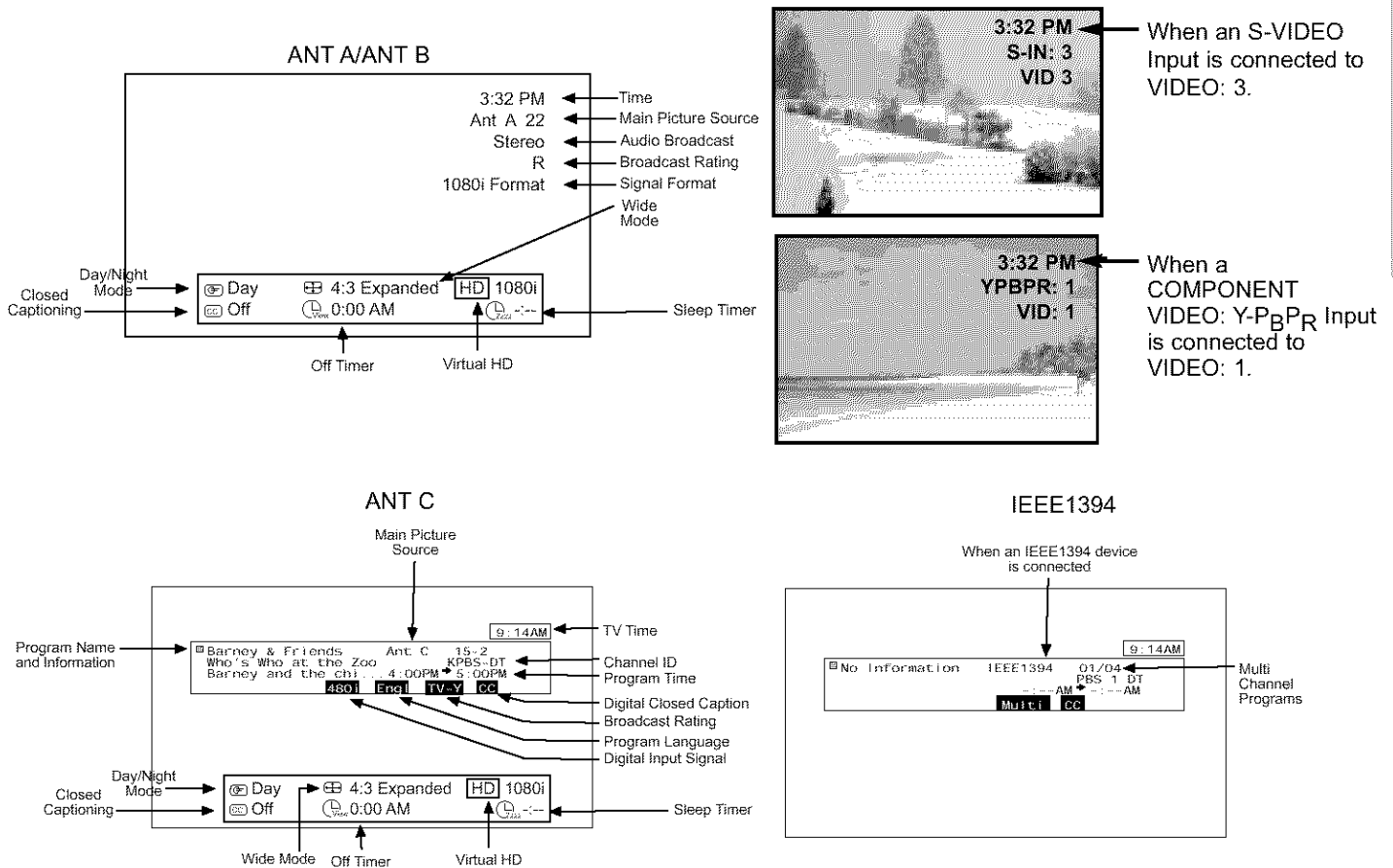
## 10 SLEEP and (-) DASH button

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 this timer, up to a maximum of three hours. Once set, use INFO when you want to view time remaining. If the SLEEP button is pressed while the timer is set, it will reset to the original condition.

When in ANT C, Digital channels are indicated by the use of a (-) DASH in the subchannel number (for example "15-1"). Press buttons [1], [5], [-], [1] to tune to subchannel 15-1.

## 11 INFO button

Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the TIMER is set.



**NOTES:**

- When an IEEE1394 device is connected, press CH ▲, CH ▼ buttons to change Multi Channel programs.
- When in ANT C or a 1394 device, press the INFO button twice (2x) to see detailed program information when available.

THE REMOTE CONTROL



# HOW TO USE THE REMOTE TO CONTROL YOUR TV

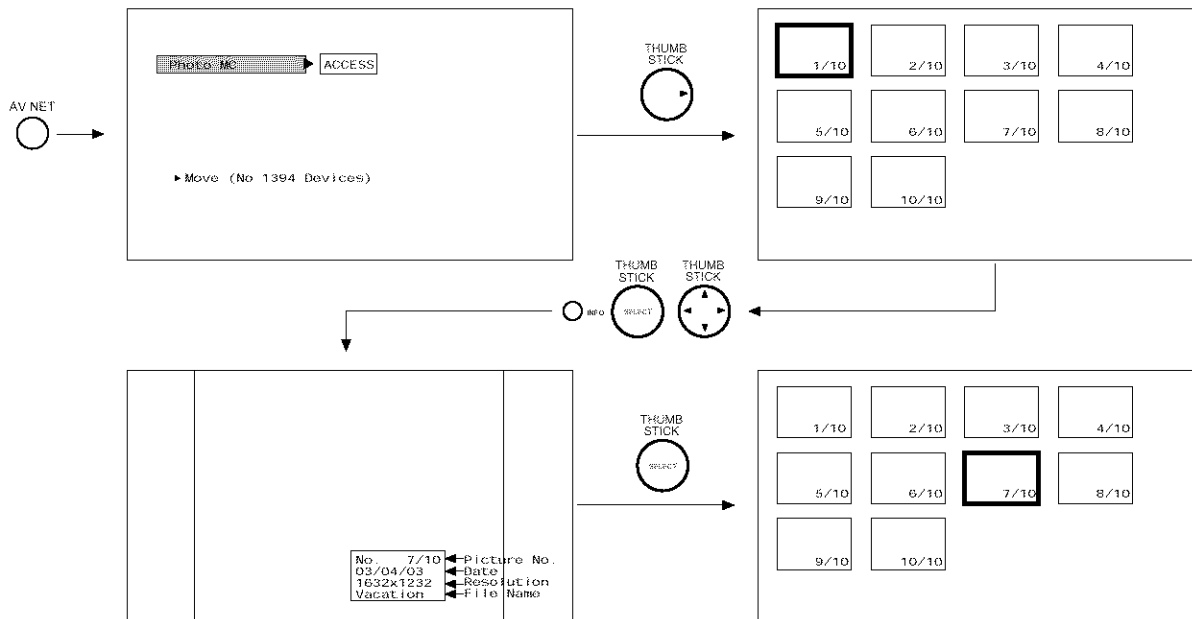
## 12 AV NET button

Press this button once to access the PHOTO MC menu. This feature is useful for viewing digital still pictures from your digital camera using a memory card and displaying them on the TV screen. Insert Photo MC (memory card) to be viewed to the PHOTO MC slot in the control panel [(SD) Secure Digital, (MMC) Multimedia Card, (CF) Compact Flash, (MD) Micro Drive, (MS) Memory Stick, (SM) Smart Media].

Press the AV NET button to access the PHOTO MC.  
Press THUMBSTICK ► to view the digital photos in THUMBNAIL view.  
Use THUMBSTICK ◀, ▶, ▲, ▼ to select individual photos.  
Press SELECT to view and enlarge individual photos.  
Press SELECT once again to switch enlarged photo back to THUMBNAIL view.  
Press MENU to access the PHOTO MC menu.  
Press THUMBSTICK ▲, ▼ to highlight menu item.  
Press SELECT to choose the menu item. Press EXIT to quit menu.

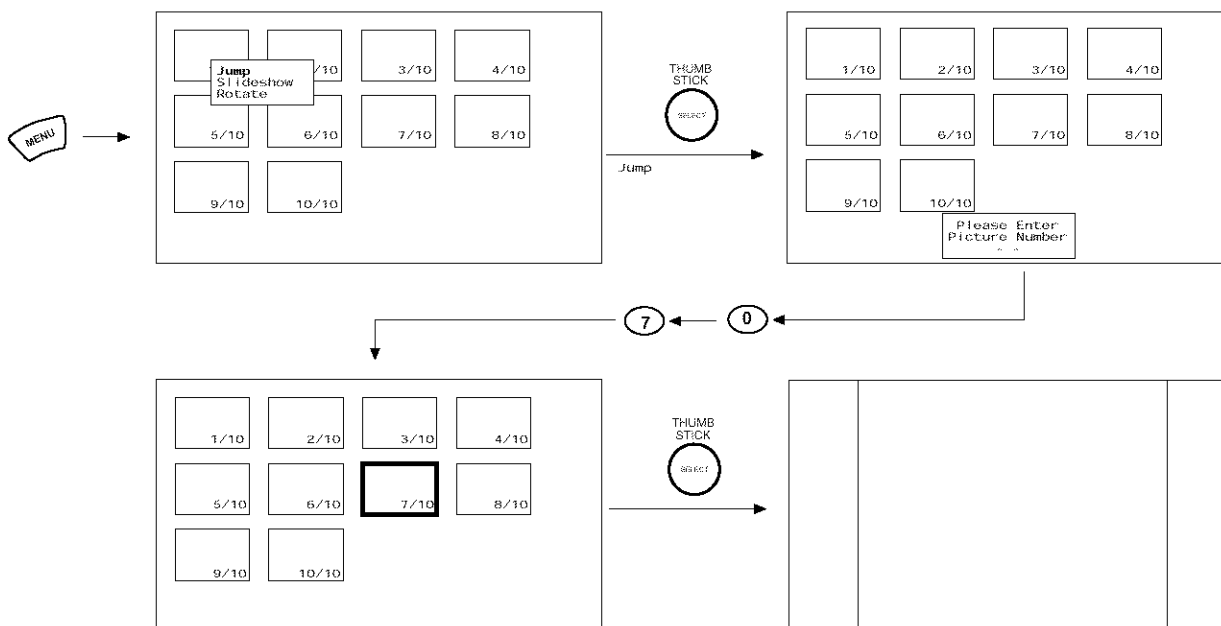
### LED Light and OSD Indicator

Memory Card	Detail Information (OSD and LED)
Accessing	LED always On
Normal	LED always On
Card not inserted	"No Memory Card"
Not available format	"Memory Card is not available"
Abnormal	"Memory Card is not available"
No File	"No Memory Card"



### JUMP

Select this menu item to view the chosen picture number.



- NOTE:**
1. Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than 3 minutes.
  2. The maximum number of digital Photos that can be displayed is 999.

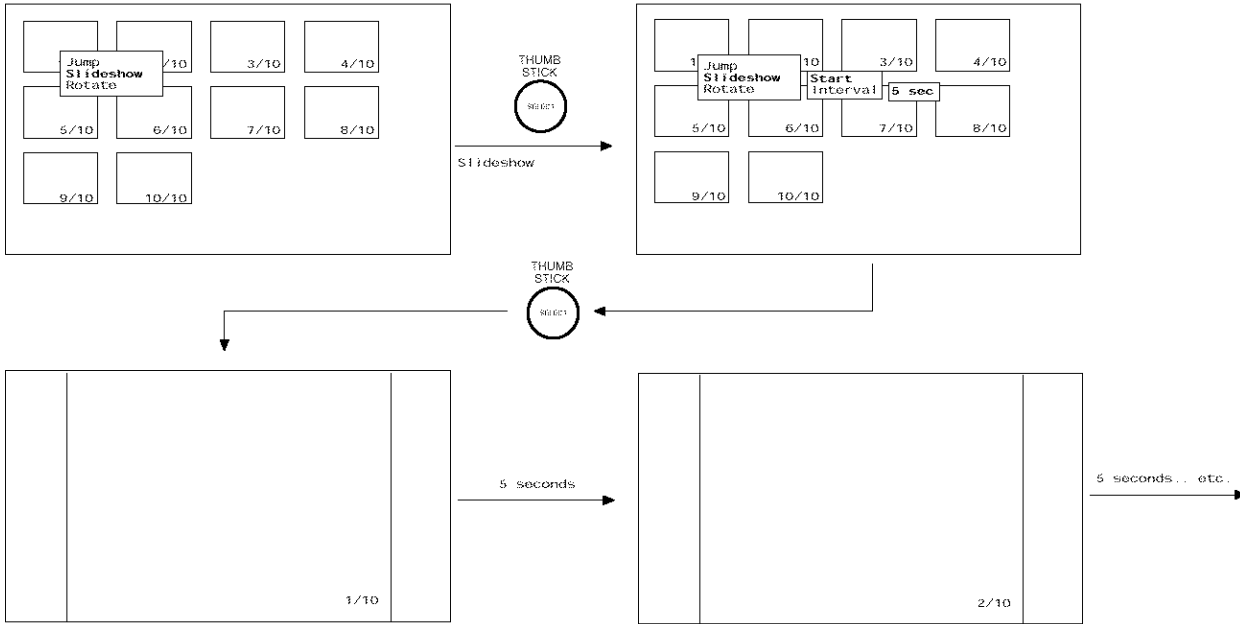


# HOW TO USE THE REMOTE TO CONTROL YOUR TV



## SLIDESHOW

Select this menu item to start a slideshow of the Photos in the memory card. Time interval selections can be set from 5, 10 and 30 seconds.



Use THUMBSTICK ▲, ▼ to highlight Slideshow item.

While interval is highlighted, press SELECT to change interval time from 5, 10 and 30 seconds. Each press will change interval time from the three mentioned choices.

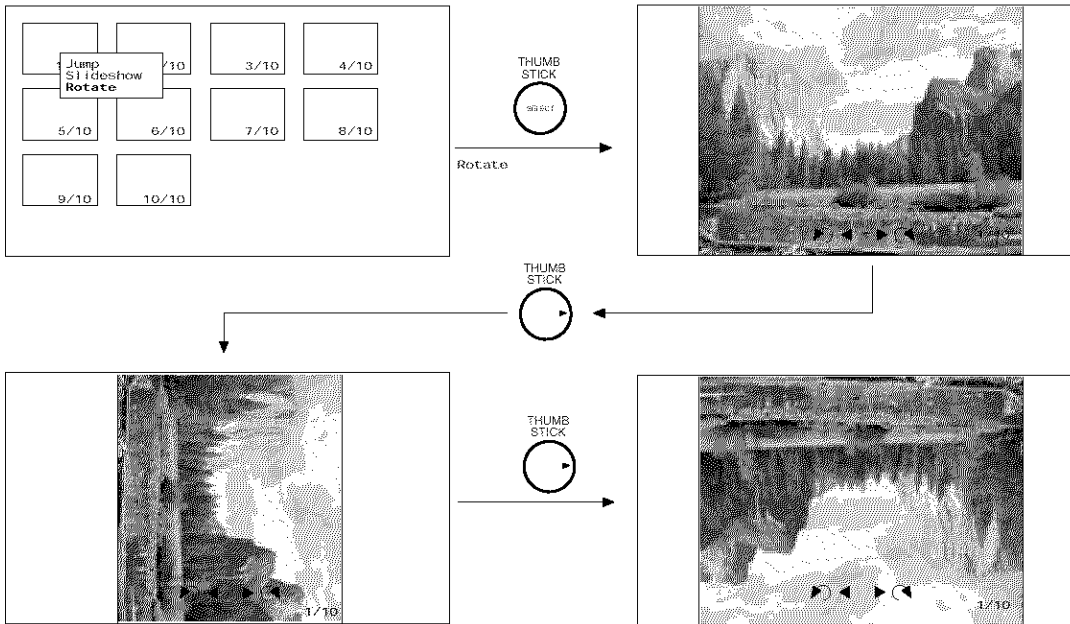
Press SELECT to stop on a chosen picture of the slideshow. After 30 seconds, the slideshow will resume, or press SELECT again to continue the slideshow.

Press EXIT to exit the slideshow.

## ROTATE

Select this menu item to rotate selected photos either clockwise (THUMBSTICK ►) and counterclockwise (THUMBSTICK ◄).

Rotate menu item is also available in THUMBNAIL view.



- NOTES:**
1. Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters; 2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a sub directory name with 8 characters (Ex. 123ABCDE). 1st to 3rd: number; 4th to 8th: letters. The sub directory then should be placed on a main directory with a "dcim" file name format.
  2. Supported image types are up to 3072 x 2304; JPEG format should conform with DCF Standard (Design rule for Camera File System).
  3. This TV set displays only digital pictures from digital cameras which meet DCF Standard. Pictures that were copied, edited or modified on a computer may not be displayed on the TV set.

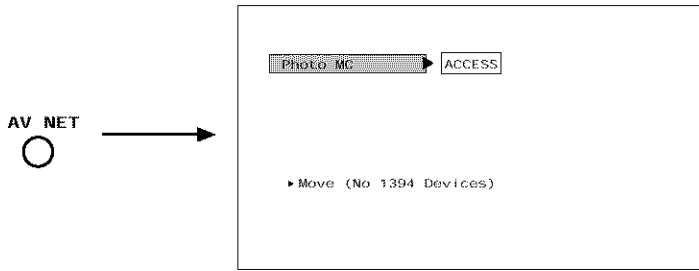
THE REMOTE CONTROL



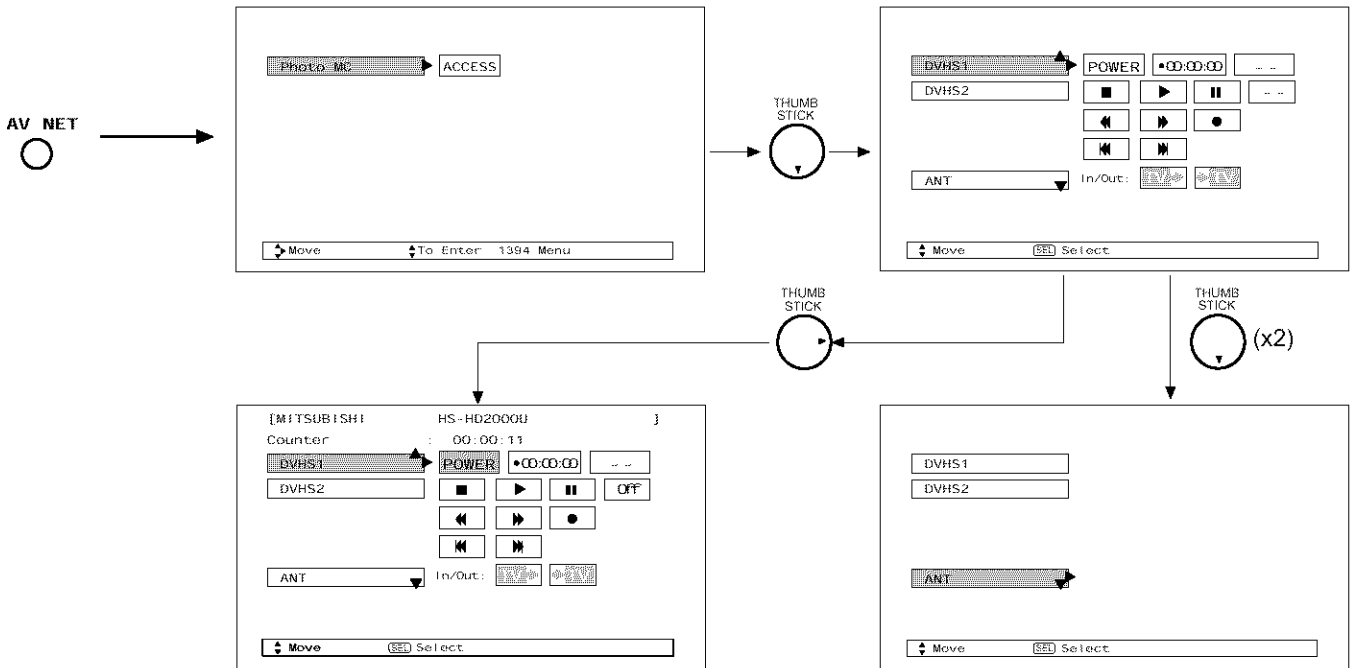
# HOW TO USE THE REMOTE TO CONTROL YOUR TV

**IEEE1394** Use this function to control your devices with digital interface capability. Press the AV NET button to confirm if your 1394 device is connected.

(When an IEEE1394 device is not connected)



(When an IEEE1394 device is connected)



Press down on THUMB STICK to select ANT C/A/B.

- Use THUMB STICK ▲, ▼ to highlight connected device (example D-VHS1).
- Use THUMB STICK ► to select connected device (example D-VHS1).
- Use THUMB STICK cursors to highlight POWER.
- Press down on THUMB STICK to power on the device.
- Use THUMB STICK cursors to select D-VHS operation.
- Press down on the THUMB STICK to enable the selected operation.
- Use THUMB STICK cursors to highlight the TV IN/OUT operation.
- Press down on THUMB STICK to select: TV IN is DVHS  
TV OUT is ANT C

- NOTES:**
1. The digital device will be automatically recognized if properly connected.
  2. Four (4) IEEE1394 devices can be listed on the menu, but only 1 device at a time can be used. If a fifth device is connected, it will replace the first device on the menu list.
  3. This TV's IEEE1394 connection is not compatible with a DV camcorder (Digital Video Camcorder) or a PC.
  4. The On-Screen-Display will not disappear until the EXIT button is pressed.
  5. Not all devices with IEEE1394 capability are compatible with this TV. Any compatibility problems with other manufacturers devices should be brought to the attention of those manufacturers.
  6. TV IN/OUT functions are not available when DVHS is in playback or recording.

THE REMOTE CONTROL

# HOW TO USE THE REMOTE TO CONTROL YOUR TV



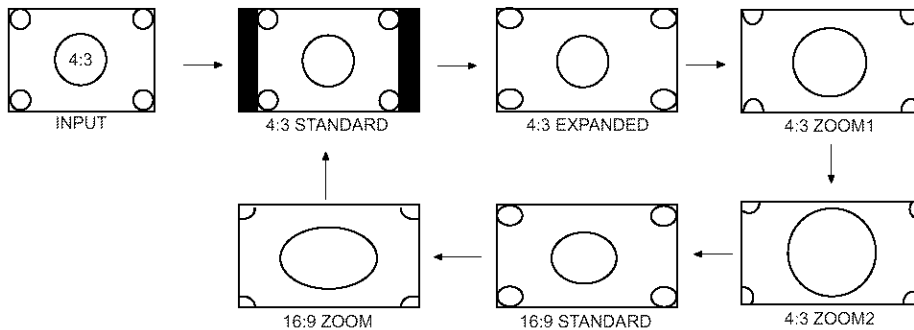
## 13 ASPECT button

Press this button to quickly change the picture format ASPECT ratio.

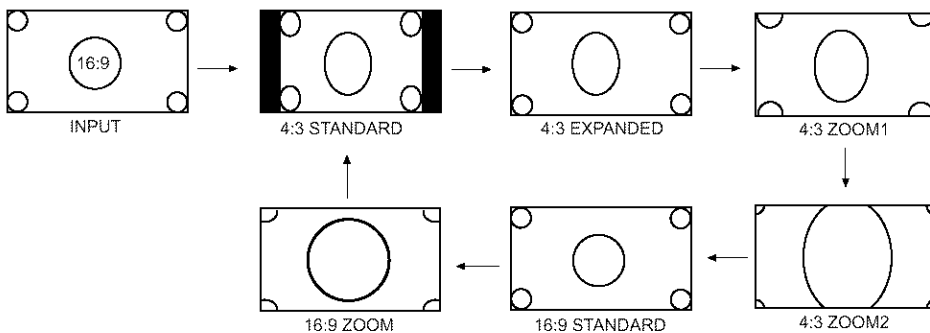
Depending on the input signal format received, the picture format ratio allows you to adjust the images through the following options.

- 4:3 STANDARD Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the left and right of the image to preserve the original aspect ratio of the source. Note: Use this mode for only 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas.
- 4:3 EXPANDED Use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from the center towards the edges of the display area in order to fill it.
- 4:3 Zoom1/Zoom2 Use these aspect modes to zoom in on conventional (4:3) sources.
- 16:9 STANDARD Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio.
- 16:9 Zoom Use this aspect to Zoom-in once while in 16:9 aspect.

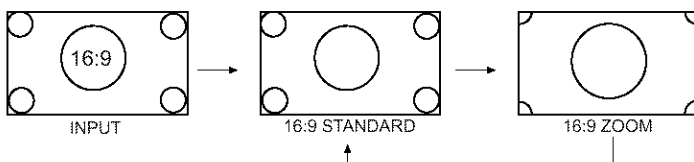
### (1) NTSC/480i/480P Input



### (2) 480i/480P Input



### (3) 720P/1080i Input



**NOTES:** 1. The Aspect Style setting you select for an ANT input will automatically be set for the other ANT inputs. However, all five video inputs have independent Aspect Style settings.  
 2. When in ANT C, signal format is dependent on broadcaster.

THE REMOTE CONTROL



# HOW TO USE THE REMOTE TO CONTROL YOUR TV

## 14 VIRTUAL HD button

Press this button to toggle between 1080i and 540p (This feature is not available while in ANT C mode). 540p and 1080i represent two ways to display the TV signal.

- Progressive: The “p” in 540p tells you that the display is showing you the picture in the progressive format. With the progressive format the complete picture is created by drawing lines across the screen from left to right which fill the screen from the top to the bottom. If you look very closely at the screen there will be a very small space between each line. The progressive format is good for displaying fast moving programs such as a sporting event.
- Interlaced: The “i” in 1080i tells you that the display is showing you the picture in the interlaced format. With the interlaced format the picture is created by drawing lines across the screen from left to right which fill the screen from top to bottom, and then returning to the top and drawing another set of lines in between the first set. The TV draws the lines so fast that our eyes can’t see them. If you look very closely at the screen you will notice a smoother image than with the progressive format. The interlaced format is good for displaying detailed images like feature films.
- You can compare the progressive and interlaced formats by toggling the “VIRTUAL HD” button on the remote control. Some people like the crisp picture from 540p and some people like the smooth and detailed 1080i. Hitachi offers you the choice.

**NOTE:** The VIRTUAL HD button will not change the picture with a 1080i HDTV input. HDTV signals bypass the VIRTUAL HD circuitry and are shown in their native 1080i format.

## 15 MENU button

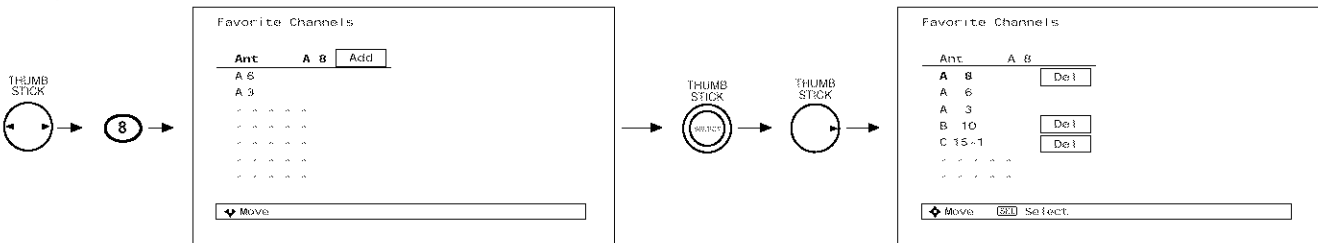
The MENU button will start the On-Screen Display.

## 16 EXIT button

This button will exit all On-Screen Displays.

## 17 THUMB STICK/SELECT button

All the On-Screen Display features can be set or adjusted by using the THUMB STICK, except for numeric entries. The THUMB STICK will highlight functions or adjust and set different features. Press the THUMB STICK toward desired direction and press down to SELECT.



When no on-screen displays are on the TV screen, use THUMB STICK ◀ or ▶ to access the Favorite Channels feature.

To add channels to Favorite Channels, use the number keys to enter the channel number. Use THUMB STICK ▶ to highlight “Add”, then press SELECT to store the channel to the Favorite Channel feature.

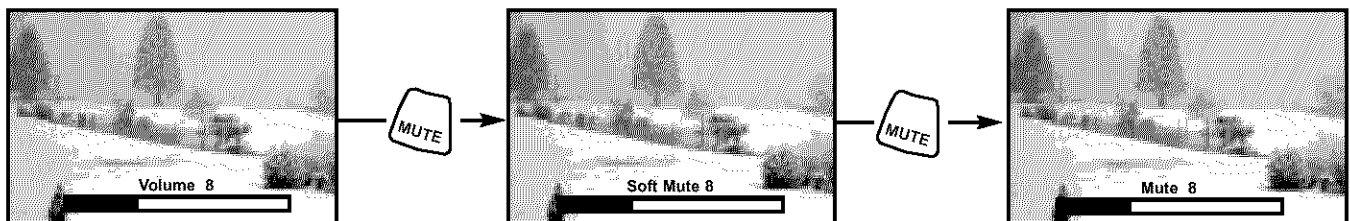
To delete (Del) the channel from the Favorite Channel, use THUMB STICK ▲, ▼ to highlight the channel, then THUMB STICK ▶ to highlight Delete (Del) and press SELECT to delete.

To view a Favorite Channel use THUMB STICK ▲, ▼ to highlight the channel and press SELECT to view.

## 18 VOLUME, MUTE button

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

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (▲) button.



Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 70).

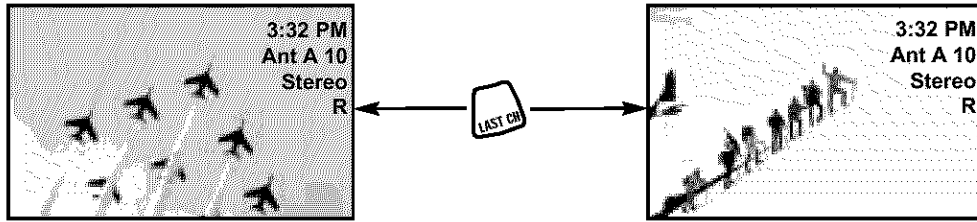
When the TV power is turned off at a volume level 31 or greater, the volume level will default to 30 when the TV is turned on. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

# HOW TO USE THE REMOTE TO CONTROL YOUR TV



## 19 LAST CHANNEL (LAST CH) button

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



## 20 PICTURE-IN-PICTURE buttons

See separate section on pages 31-33 for a description.

## 21 SURF button

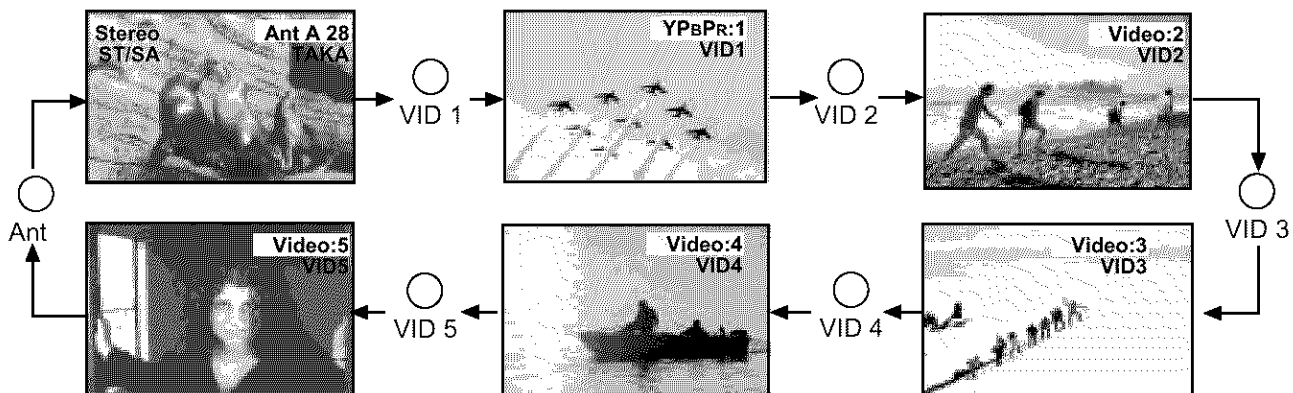
Press the SURF button to automatically scan all active channel numbers (those set in memory) and display them as PIP sub-pictures. Press the SURF button a second time to remove the sub-pictures from the screen.



- NOTES:**
1. If no buttons are pressed when in SURF mode, auto-scanning will continuously scan channels in memory (see page 55).
  2. If a channel is changed during this SURF scanning, sub-pictures will be removed from the screen.
  3. If MOVIE/TV RATINGS LOCK setting is ON, PIP SURF mode will be deactivated.
  4. CLOSED CAPTION will not appear when PIP SURF mode is on.
  5. While in SURF scanning mode, press SELECT on the remote control to stop on a chosen channel. Press SELECT again to resume SURF scanning.

## 22 VID1 ~ VID5

When the remote control is in TV mode, press these buttons to directly select the video input sources between the five video inputs.



## 23 DAY/NIGHT button

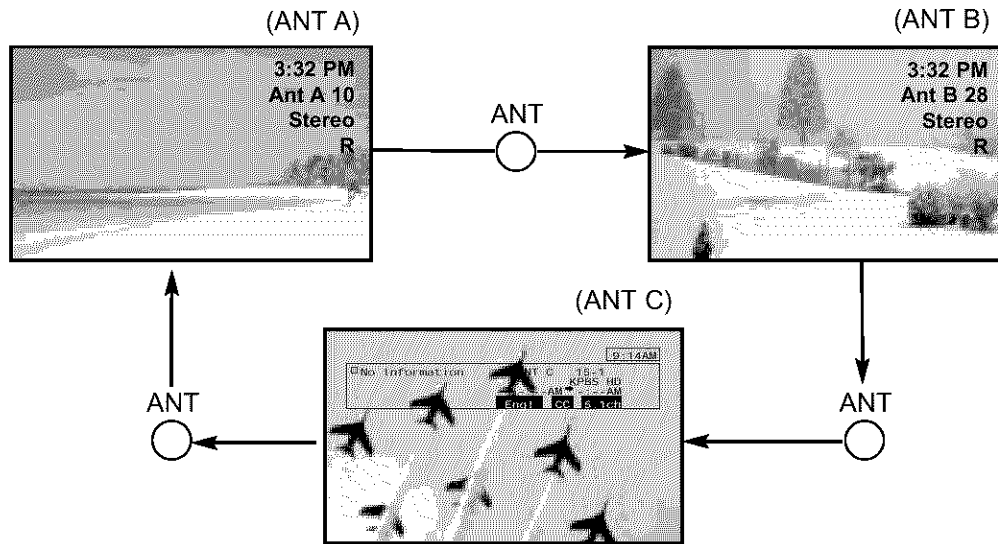
Press this button to toggle between Day and Night picture mode settings. Select Day for day time viewing with more brightness and contrast to compete with room light. Select Night for night time viewing with less brightness and contrast for a more detailed picture (see page 43 for settings changes).



# HOW TO USE THE REMOTE TO CONTROL YOUR TV

## 24 ANTENNA button

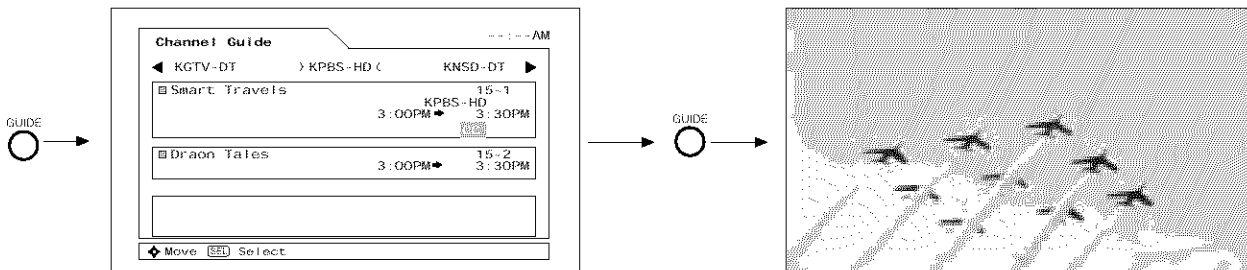
The ANT button will select between Antenna A, Antenna B and Antenna C each time the button is pressed.



## 25 GUIDE button

The GUIDE button only works while in ANT C mode (DTV). Press this button to access the Channel Guide for ANT C. Press the GUIDE button again to return to normal viewing.

Select CHANNEL GUIDE to display available digital programs. Only scanned programs that are available at the present time will show in the Channel Guide (see Auto Channel Scan on page 53).



Use THUMB STICK ▲, ▼, ◀, ▶ to highlight the channel of choice (example: KPBS-HD). Press THUMB STICK ▲, ▼, to highlight the subchannel of choice (example: 15-1). Press down on THUMBSTICK to tune the subchannel of choice.

**NOTE:** If a channel has over 3 sub-channels (15-1, 15-2, 15-3, 15-4), you can scroll by using the up (▲) and down (▼) buttons.

THE REMOTE CONTROL

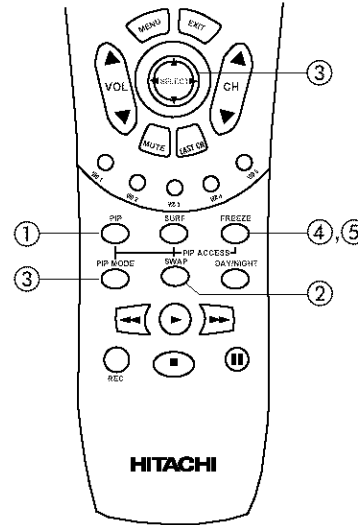
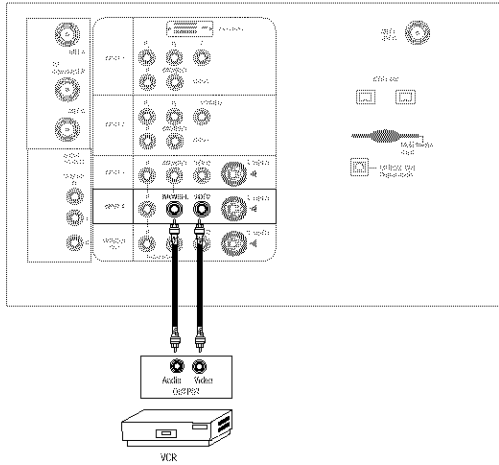
# PICTURE-IN-PICTURE (PIP)



Your HITACHI Projection TV incorporates Three Tuner technology designed for improved viewing enjoyment. This Three Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each.

ANT A and ANT C input can be viewed as both the main picture and the sub-picture simultaneously. ANT B can only be viewed as a main picture. To select between main picture and PIP sub-picture tuning, press the SWAP button on the remote. The green highlighted channel display will move with every press of the SWAP button.

The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from the ANT A/C source or any of the video inputs.



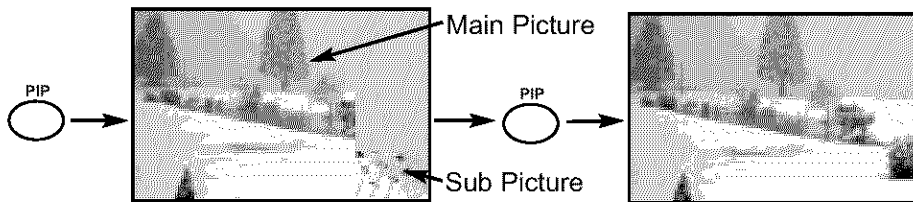
Use above connection to view VCR program as a sub-picture while viewing another program as main picture (ANT A, ANT B, ANT C, V:1, V:2, V:3, V:4, or V:5). You may also view the VCR program as a main picture while viewing another program as a sub-picture (ANT A, ANT C, V:1, V:2, V:3, or V:5).

## ① PIP button

Press the PIP button and a sub-picture will appear in one of the four different modes (POP, PIP, SPLIT or SURF), depending on the last selection of the PIP mode. To change the PIP mode, use the PIP MODE button to cycle through the four different modes.

### POP MODE PICTURE-IN-PICTURE

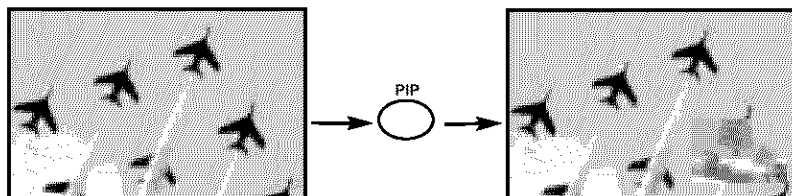
Press the PIP button and a sub-picture appears in one of the four different modes (POP, PIP, SPLIT or SURF), depending on the last selection of the PIP mode. Press the PIP button again to remove the sub-picture from the screen. Use the PIP CH button to select between main and sub-picture tuning control (indicated by green highlighted channel display.) Press the VID1, VID2, VID3, VID4 or VID5 button when sub-picture channel tuning is being controlled, to change between VIDEO: 1, VIDEO: 2, VIDEO: 3, VIDEO:4 and VIDEO:5 and ANT:A source. (ANT B source cannot be viewed as a sub-picture.)



- NOTES:**
1. When ANT B is selected as the main channel, the SWAP feature is disabled.
  2. In POP mode, THUMBSTICK ▲, ▼ will move the sub-picture up/down.
  3. Only sound from the main picture can be heard.

**PIP MODE PICTURE-IN-PICTURE** This feature is only available with a 1080i component input or ANT C signal. For ANT C, this feature is available with a 1080i, 720p and 480p input signal)

To prevent a pattern burn, occasionally move the sub-picture using the THUMBSTICK.





# PICTURE-IN-PICTURE (PIP)

## SPLIT MODE PICTURE-IN-PICTURE

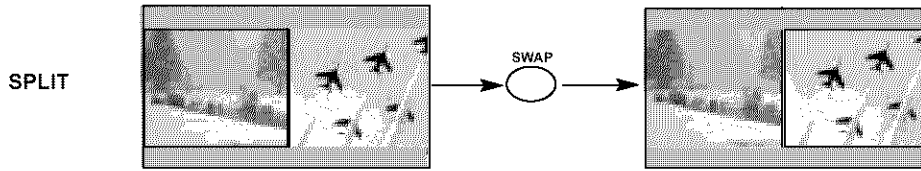
Split Mode PIP displays the main picture and sub-picture evenly on the screen.



**NOTE:** When in PIP SPLIT mode, if main picture and sub picture are in ANT C, the picture will always be the same.

### ② SWAP button (with PIP ON)

Press this button to toggle between the Main and Sub picture which is highlighted with a green border around the picture. Picture sound and channel can be controlled when it is highlighted.

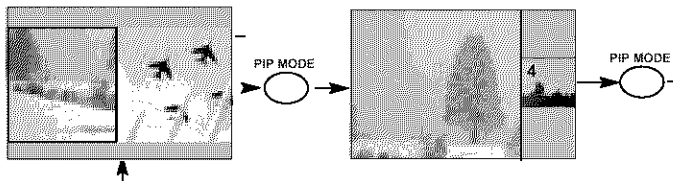


**NOTE:** The SWAP button will only operate in POP, PIP, and SPLIT PIP mode.

### ③ PIP MODE button

To change between the available PIP modes (moving picture - SPLIT, POP or PIP; freeze picture - SPLIT, STROBE, MAIN and SUB) press the PIP MODE button when PIP is ON. Each press of this button will change PIP to a different mode. Pressing this button two times will cycle through both PIP modes.

#### a) Moving Picture

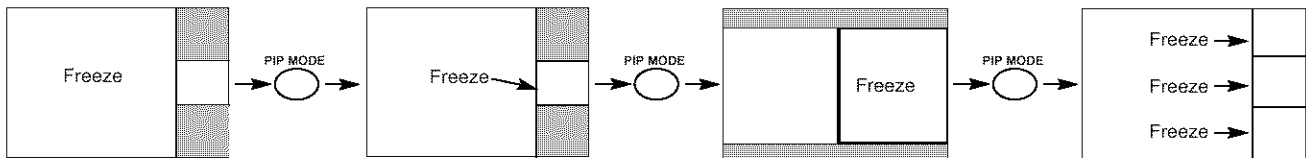


PICTURE-IN-PICTURE (PIP) MODES

	POP	PIP	SPLIT
NTSC (ANT A/B)	YES	x	YES
480i	YES	x	YES
480p	x	x	YES
720p	x	x	YES
1080i	x	YES	YES
Ant C (DTV) 16:9	x	YES	YES
Ant C (DTV) 4:3	YES	X	YES

**NOTE:** PIP modes will depend on the type of signal format received.

#### b) Freeze Picture



FREEZE MODES

	POP	PIP	SPLIT	STROBE
NTSC (ANT A/B)	YES	x	YES	YES
480i	YES	x	YES	YES
480p	x	x	YES	X
720p	x	x	YES	X
1080i	x	YES	YES	X
Ant C (DTV) 16x9	x	YES	YES	YES
Ant C (DTV) 4:3	YES	x	YES	YES

**NOTE:** Freeze modes will depend on the type of signal format received.

THE REMOTE CONTROL





# PICTURE-IN-PICTURE (PIP)

## ④ FREEZE button (With PIP ON)

If you wish to freeze the sub-picture, press the FREEZE button. This is convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the FREEZE button again.

**NOTE:** When PIP is on, the FREEZE function will only operate when POP/PIP/SPLIT mode is chosen.

## ⑤ FREEZE button (with PIP OFF)

Press the FREEZE button to freeze the picture, depending on the PIP mode selected (POP Main Freeze, POP Sub Freeze, SPLIT or STROBE). To change FREEZE modes, use the PIP MODE button to cycle through the four different modes.

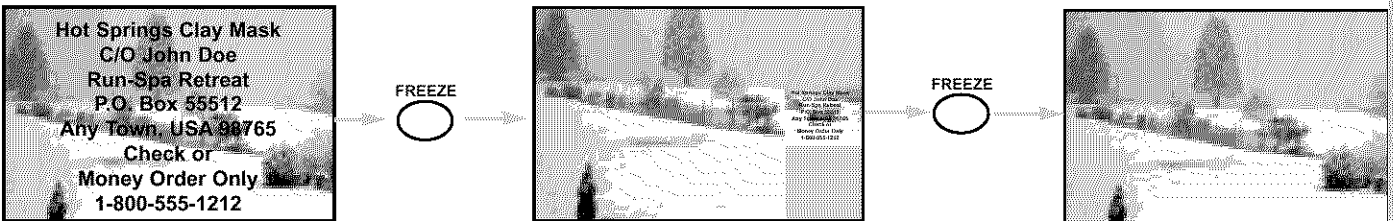
### POP MAIN FREEZE (with PIP OFF)

PIP FREEZE should be in POP Main mode. Press the FREEZE button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press this button again or PIP to return to normal viewing. This feature is useful for freezing a picture frame with addresses.



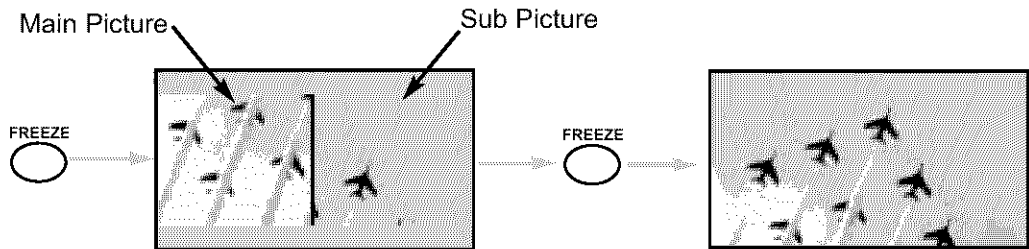
### POP SUB FREEZE (with PIP OFF)

PIP FREEZE should be in POP Sub mode. Press the FREEZE button to freeze the sub-picture. Press the FREEZE button again or the PIP button to return to normal viewing.



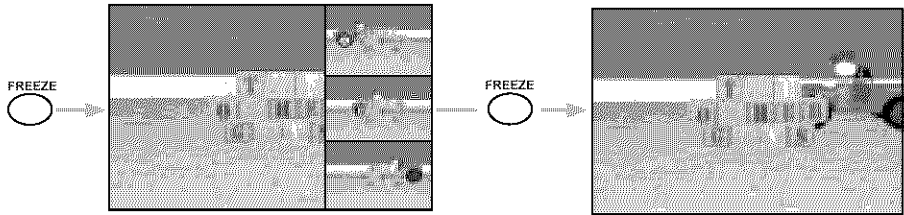
### SPLIT FREEZE(with PIP OFF)

PIP FREEZE should be in SPLIT mode. Press the FREEZE button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the FREEZE button again or the PIP button to return to normal viewing.



### STROBE FREEZE(with PIP OFF)

PIP FREEZE should be in STROBE mode. Press the FREEZE button to freeze three frames of the picture you are currently viewing. Press this button again or PIP to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.



**NOTES:** Each freeze frame is delayed about 0.1 (1/10) second.

THE REMOTE CONTROL



# USING THE REMOTE TO CONTROL 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 40 for pre-codes).

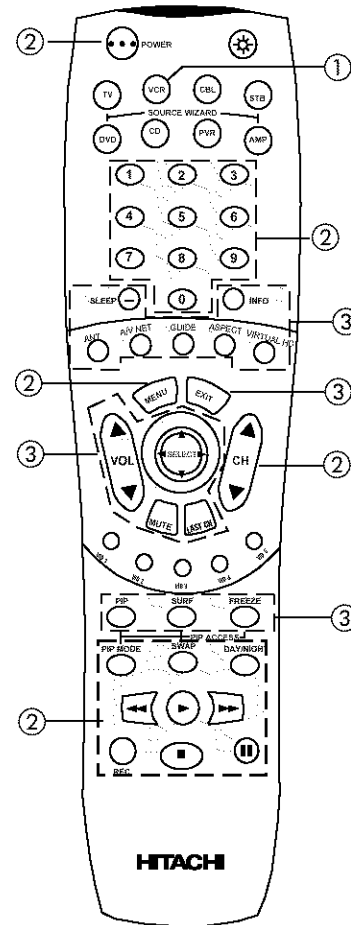
1. Turn ON your VCR.
2. Aim the remote control at the front of your VCR.
3. Press and release the VCR button to switch to VCR pre-coded mode.
4. Hold down the VCR button on the remote and enter the two digit preset code that matches your VCR, as shown on page 40. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the VCR and press the POWER button. 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, try a different two digit preset code.
6. The remote will now control your VCR.

THE REMOTE CONTROL

### NOTES:

1. If your VCR cannot be operated after performing the above procedures, your VCR's 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 until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
4. The MENU button will act as the VCR MENU button for HITACHI VCRs.
5. The LAST CH button will act as your VCR ENTER button if required.
6. The SLEEP button will act as your VCR '100' button if required.

- ① **VCR Button**  
This button 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. For some VCRs, you must press the RECORD button twice to record a program.
- ③ **EXCLUSIVE TV Buttons**  
These buttons are for operating the TV.



MY VCR CODE IS: \_\_\_\_\_

**NOTE:** Refer to instruction manual of the VCR for operation of the buttons exclusively for the VCR.

# USING THE REMOTE TO CONTROL CABLE BOX FUNCTIONS



## Operating the precoded function for your cable box.

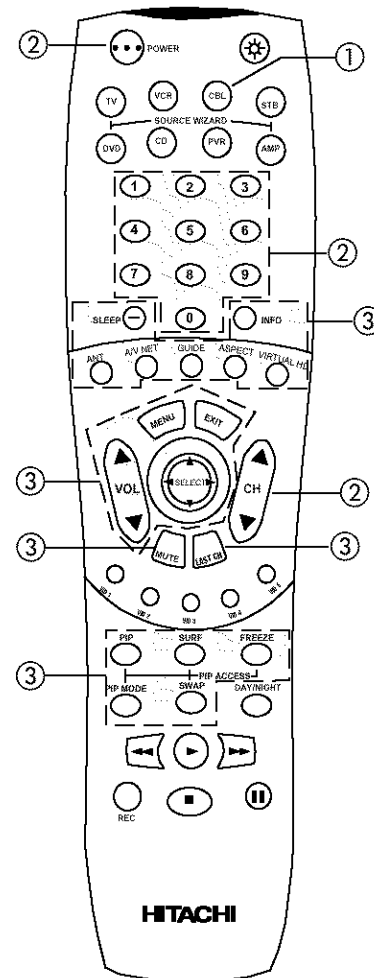
This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer to page 40).

1. Turn ON your cable box.
2. Aim the remote control at the front of your cable box.
3. Press and release the Cable (CBL) button to switch to Cable pre-coded mode.
4. Hold down the CBL button on the remote and enter the two digit preset code that matches your cable box as shown on page 40. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable box. If the cable box does not turn off, try a different two digit preset code.
6. The remote will now control your Cable box.

### NOTES:

1. If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
2. In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
4. The LAST CH button will act as the cable box ENTER button if required.
5. The SLEEP button will act as your cable box '100' button if required.
6. The ANT button will act as the TV/STB button when in STB mode.

- ① **CABLE (CBL) button**  
This button allows the remote to control your cable box by setting it to CABLE mode.
- ② **PRECODED CABLE BOX buttons**  
These buttons transmit the chosen precoded cable codes.
- ③ **EXCLUSIVE TV buttons**  
These buttons are for operating the TV.



THE REMOTE CONTROL

MY CABLE BOX CODE IS: \_\_\_\_\_

**NOTE:** Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.



# USING THE REMOTE TO CONTROL SET-TOP-BOX/SATELLITE RECEIVER FUNCTIONS

## Operating the precoded function for your set-top-box/satellite receiver.

This remote is designed to operate different types of set-top-box/satellite systems. You must first program the remote to match the remote system of your set-top-box/satellite systems (refer to page 40).

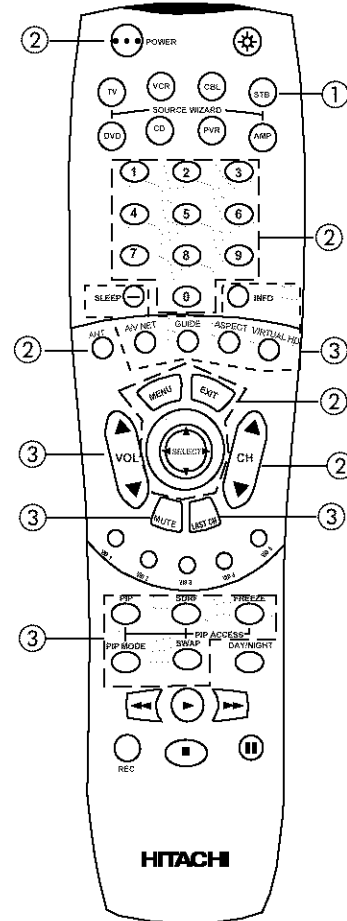
1. Turn ON your set-top-box/satellite systems.
2. Aim the remote control at the front of your set-top-box/satellite systems.
3. Press and release the SET-TOP-BOX (STB) button to switch to set-top-box/satellite pre-coded mode.
4. Hold down the STB button on the remote and enter the two digit preset code that matches your set-top-box/satellite receiver as shown on page 40. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the set-top-box/satellite receiver and press the POWER button. The remote will turn off your set-top-box/satellite receiver when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your set-top-box/satellite receiver. If the set-top-box/satellite receiver does not turn off, try a different two digit preset code.
6. The remote will now control your set-top-box/satellite receiver.

THE REMOTE CONTROL

### NOTES:

1. If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-top-box/satellite receiver code has not been precoded into the remote.
2. In the unlikely event that your set-top-box/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
4. The ANT button will act as the TV/STB button when in STB mode.

- ① **SET-TOP-BOX (STB) button**  
This button allows the remote to control your satellite receiver by setting it to SET-TOP-BOX/SATELLITE mode.
- ② **PRE-CODED SET-TOP-BOX/SATELLITE RECEIVER buttons**  
These buttons transmit the chosen pre-coded set-top-box/satellite codes.
- ③ **EXCLUSIVE TV buttons**  
These buttons are for operating the TV.



MY SATELLITE RECEIVER/STB CODE IS: \_\_\_\_\_

**NOTE:** Refer to instruction manual of the set-top-box/satellite receiver for operation of the buttons exclusively for the set-top-box/satellite receiver.

# USING THE REMOTE TO CONTROL DVD FUNCTIONS



## Operating the precoded function for your DVD player.

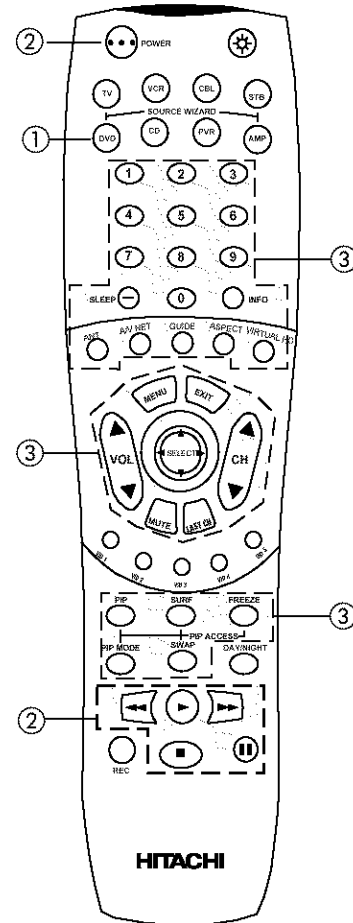
This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer to page 40 for pre-codes).

1. Turn ON your DVD player.
2. Aim the remote control at the front of your DVD player.
3. Press and release the DVD button to switch to DVD pre-coded mode.
4. Hold down the DVD button on the remote and enter the two digit preset code that matches your DVD player, as shown on page 40. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different two digit preset code.
6. The remote will now control your DVD player.
7. You will need to set the display type of your DVD player to 16:9 widescreen.

### NOTES:

1. If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote.
2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

- ① DVD Button**  
This button allows the remote to control your DVD player by setting it to DVD mode.
- ② PRECODED DVD Buttons**  
These buttons transmit the chosen precoded DVD codes.
- ③ EXCLUSIVE TV Buttons**  
These buttons are for operating the TV.



THE REMOTE CONTROL

MY DVD PLAYER CODE IS: \_\_\_\_\_

**NOTE:** Refer to instruction manual of the DVD player for operation of the buttons exclusively for the DVD player.



# USING YOUR REMOTE TO CONTROL PVR FUNCTIONS

## Operating the precoded function for your PVR (Personal Video Recorder).

This remote is designed to operate different types of PVRs. You must first program the remote to match the remote system of your PVR (refer to page 40 for pre-codes).

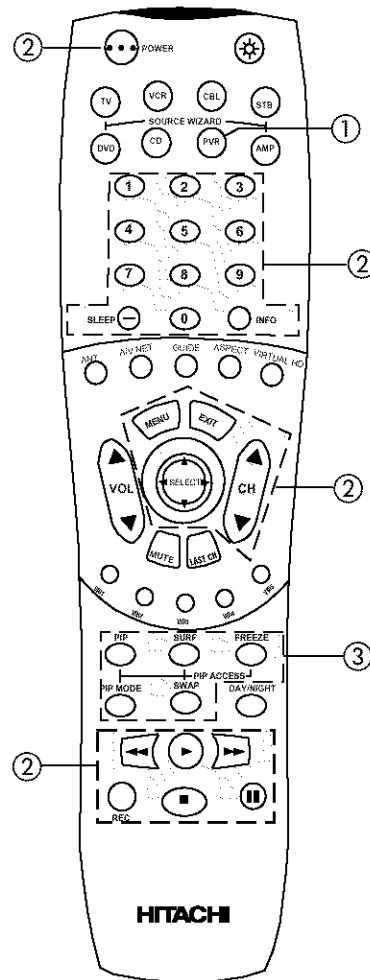
1. Turn ON your PVR.
2. Aim the remote control at the front of your PVR.
3. Press and release the PVR button to switch to PVR pre-coded mode.
4. Hold down the PVR button on the remote and enter the two digit preset code that matches your PVR, as shown on page 40. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the PVR and press the POWER button. The remote will turn off your PVR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your PVR. If the PVR does not turn off, try a different two digit preset code.
6. The remote will now control your PVR.

THE REMOTE CONTROL

### NOTES:

1. If your PVR cannot be operated after performing the above procedures, your PVR's code has not been precoded into the remote.
2. In the unlikely event that your PVR cannot be operated after performing the above procedures, please consult your PVR operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

- ① **PVR Button**  
This button allows the remote to control your PVR by setting it to PVR mode.
- ② **PRECODED PVR Buttons**  
These buttons transmit the chosen precoded PVR codes.
- ③ **EXCLUSIVE TV Buttons**  
These buttons are for operating the TV.



MY PVR CODE IS: \_\_\_\_\_

**NOTE:** Refer to instruction manual of the PVR for operation of the buttons exclusively for the PVR.

# USING YOUR REMOTE TO CONTROL ADDITIONAL AUDIO EQUIPMENT



## Operating the precoded function for your Audio component.

This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to page 40 for pre-codes).

1. Turn ON your Audio component you wish to control with the Remote.
2. Aim the remote control at the front of your Audio component.
3. Press and release the CD or AMP button (Audio buttons) to switch to Audio component pre-coded mode.
4. Hold down the CD or AMP button on the remote and enter the two digit preset code that matches your Audio component, as shown on page 40. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the Audio component and press the POWER button. The remote will turn off your Audio component when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different two digit preset code.
6. The remote will now control your Audio component.
7. Repeat steps 1 - 6 if you wish to program the remote to control another Audio component. Be sure to use a different Audio button on the remote, since only one component can be programmed per button.

### NOTES:

1. If your Audio component cannot be operated after performing the above procedures, your Audio component's code has not been precoded into the remote.
2. In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio equipment operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

### ① CD and AMP Buttons

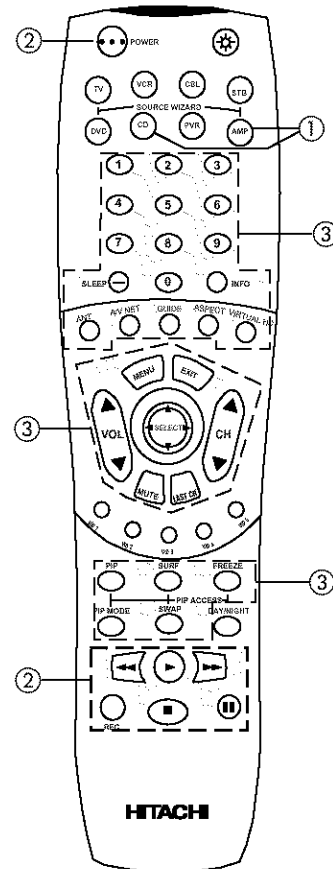
These buttons allow the remote to control your Audio equipment by setting it to Audio mode.

### ② PRECODED AUDIO Buttons

These buttons transmit the chosen precoded Audio component codes.

### ③ EXCLUSIVE TV Buttons

These buttons are for operating the TV.



THE REMOTE CONTROL

MY AUDIO EQUIPMENT CODE IS:

CD \_\_\_\_\_  
AMP/RCVR \_\_\_\_\_

**NOTE:** Refer to instruction manual of the Audio equipment for operation of the buttons exclusively for the Audio equipment.



# VCR, CABLE, SATELLITE, DVD and AUDIO CODES FOR REMOTE CONTROL

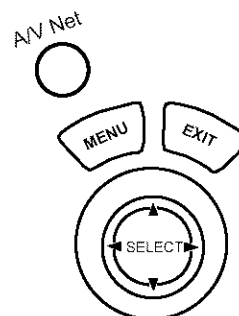
THE REMOTE CONTROL

<b>VCR BRAND.....</b>	<b>CODE</b>	Quarter.....	18	Dae Ryung.....	20	<b>AMPLIFIER BRAND.....</b>	<b>CODE</b>
Adventura.....	01	Quartz.....	18	Eastern.....	14	Aiwa.....	05, 06
Aiko.....	09	Quasar.....	23	Electricord.....	31	Carver.....	01, 06, 08
Aiwa.....	01	Radio Shack.....	01, 24	Everquest.....	51	Denon.....	10
Akai.....	02, 47, 48	Radix.....	24	Focus.....	52	Fisher.....	08, 11
American High.....	23	Randex.....	24	Garrard.....	11	Hitachi.....	12
Asha.....	44	RCA.....	03, 04, 05, 35, 40, 46	GC Electronics.....	32, 39	JVC.....	13
Audiovox.....	24	Realistic.....	01, 18, 19, 20, 21, 23, 24, 32, 44	Gemini.....	05, 38, 43, 51	Kenwood.....	14, 15, 17, 18
Beaumarck.....	44	Ricoh.....	22	General Instrument.....	01, 12	Magnavox.....	01, 06
Bell & Howell.....	32	Runco.....	15	Goldstar.....	10, 25	Marantz.....	01, 06, 16
Broksonic.....	33, 34, 41	Samsung.....	17, 44	Hamlin.....	04, 13, 22, 23	MCS.....	16
Calix.....	24	Sanky.....	15, 20	Hitachi.....	01	Optimus.....	03, 04, 11, 15, 20
Canon.....	23	Sansui.....	02, 26	Hytex.....	36	Panasonic.....	16
Carver.....	31	Sanyo.....	18, 19, 32, 44	Jasco.....	11	Philips.....	01, 06
CCE.....	09	Scott.....	16, 17, 33, 34, 36, 41	Jerrold.....	01, 08, 12, 37, 49, 50, 51	Pioneer.....	03, 04, 20, 21, 22
Citizen.....	09, 24	Sears.....	21, 23, 24, 32	Macom.....	35	Quasar.....	16
Craig.....	19, 24, 44	Sharp.....	20	Magnavox.....	15	Sansui.....	06
Curtis Mathes.....	02, 23, 46	Shintom.....	30	Memorex.....	03	Sanyo.....	11
Cybernex.....	44	Shogun.....	44	Movie Time.....	29, 31, 33	Sharp.....	15
Daewoo.....	09, 17	Sony.....	08, 10, 22, 23	NSC.....	29, 33, 38	Sony.....	05
Dynatech.....	01	STS.....	03	Oak.....	21, 36, 46	Technics.....	02, 16, 23, 24, 25
Electrohome.....	24	Sylvania.....	01, 16, 23, 31	Panasonic.....	02, 03, 09	Victor.....	13
Electrosonic.....	24	Symphonic.....	01	Paragon.....	03	Wards.....	03, 05, 06, 08, 20, 21
Emerex.....	08	Tatung.....	02	Phillips.....	11, 15, 16, 26, 30, 42, 43, 44	Yamaha.....	15, 26
Emerson.....	01, 09, 13, 16, 24, 27, 28, 33, 34, 36, 41, 47	Teac.....	01, 02	Pioneer.....	06, 10, 19, 55		
Fisher.....	19, 21, 32	Technics.....	23, 38	Popular Mechanics.....	52	<b>CD BRAND.....</b>	<b>CODE</b>
Fuji.....	10, 23	Teknika.....	01, 23, 24	Pulsar.....	03	Adcom.....	01
Funai.....	01	TMK.....	27, 44	RCA.....	02	Aiwa.....	02
Garrard.....	01	Toshiba.....	16, 17, 21, 36	Realistic.....	39	California Audio Lab.....	03
GE.....	04, 23, 40, 46	Totvision.....	24, 44	Recoton.....	52	Carver.....	02
Goldstar.....	24, 25, 43	Unitech.....	44	Regal.....	04, 22, 34	Denon.....	04
Gradiente.....	01	Vector.....	17	Regency.....	14	DKK.....	05
Harley Davidson.....	01	Vector Research.....	25	Rembrandt.....	01, 38	Emerson.....	01
Harmon/Kardon.....	25	Video Concepts.....	17, 47	Samsung.....	10, 25	Fisher.....	06
Headquarter.....	18	Videosonic.....	44	Scientific Atlanta.....	17, 20, 41, 45, 55	Genexxa.....	07
Hi-Q.....	19	Wards.....	01, 03, 19, 20, 23, 35, 36, 44, 46	Signal.....	25, 51	Hitachi.....	01, 07, 08, 09, 10, 11, 12
Hitachi.....	01, 02, 03, 04, 05	XR-1000.....	01, 23	Signature.....	01	JVC.....	13
Jensen.....	02	Yamaha.....	25	SL Marx.....	25	Kenwood.....	06, 14, 15
JVC.....	02, 14, 26	Zenith.....	10, 15, 22	Sprucer.....	02	Krell.....	02
KEC.....	09, 24			Starcom.....	37, 49, 51	Magnavox.....	02
Kenwood.....	02, 25, 26			Stargate.....	25, 51	Marantz.....	02, 03
KLH.....	30	<b>DVD BRAND.....</b>	<b>CODE</b>	Starquest.....	51	MCS.....	03
Kodak.....	23, 24	APEX.....	15	Starsight.....	53, 54	Mission.....	03
Lloyd.....	01	Denon.....	04	Sylvania.....	18	NSM.....	02
Lloyd's.....	27	Go Video.....	14	Televue.....	25	Onkyo.....	16
LXI.....	24	Hitachi.....	07, 12, 13	Texscan.....	18	Optimus.....	05, 07, 17
Magnavox.....	15, 23, 31, 35	JVC.....	01	Tocom.....	07, 27, 50	Panasonic.....	03
Magnin.....	44	Kenwood.....	04, 16	Toshiba.....	03	Philips.....	02
Marantz.....	23, 31	Magnavox.....	05	Tusa.....	51	Pioneer.....	07, 17
Marta.....	24	Mitsubishi.....	10	TV 86.....	29	Proton.....	02
Matsushita.....	23	Panasonic.....	04	Unika.....	11, 39	QED.....	02
MEI.....	23	Phillips.....	06	United Artists.....	36	Quasar.....	03
Memorex.....	01, 15, 18, 19, 20, 23, 24, 32, 44	Pioneer.....	03	Universal Cable.....	49	RCA.....	01, 21
MGA.....	16, 47	RCA (Proscan).....	09, 17	Videoway.....	47	Realistic.....	01
MGN Technology.....	44	Samsung.....	12	Viewstar.....	15, 28, 29, 40	Rotel.....	02
Mioita.....	03, 05	Sanyo.....	13	Zenith.....	03, 48	SAE.....	02
Mitsubishi.....	16, 26, 39, 47, 48	Sony.....	02	Zentek.....	52	Sansui.....	02
Motorola.....	20, 23	Toshiba.....	05			Scott.....	01
MTC.....	01, 44	Yamaha.....	08			Sony.....	05, 18
Multitech.....	01	Zenith.....	05, 11	<b>SATELLITE BRAND.....</b>	<b>CODE</b>	Technics.....	03, 19, 20
NEC.....	02, 25, 26, 32			Echostar.....	04	Victor.....	13
Nikko.....	24	<b>CABLE BRAND.....</b>	<b>CODE</b>	Hitachi.....	01		
Noblex.....	44	ABC.....	01, 07, 08, 17, 18, 20, 36, 37, 49	Hughes.....	05	<b>PERSONAL VIDEO</b>	
Olympus.....	12, 23	Antronix.....	39	RCA.....	02	<b>RECORDER BRAND.....</b>	<b>CODE</b>
Optimus.....	20, 24, 32	Archer.....	11, 24, 39	Sony.....	03	Tivo.....	01
Panasonic.....	11, 12, 23, 38	Belcor.....	32			Replay.....	02
Penney.....	03, 23, 24, 25, 44	Cable Star.....	32	<b>SET-TOP-BOX.....</b>	<b>CODE</b>		
Pentax.....	03, 04, 05	Century.....	11	Panasonic.....	06		
Philco.....	23	Citizen.....	11	RCA.....	07		
Phillips.....	23, 31	Colour Voice.....	30, 42	Samsung.....	08		
Pilot.....	24	Comtronics.....	25, 28	Zenith.....	09		
Pioneer.....	26	Contec.....	21				
Pulsar.....	15						

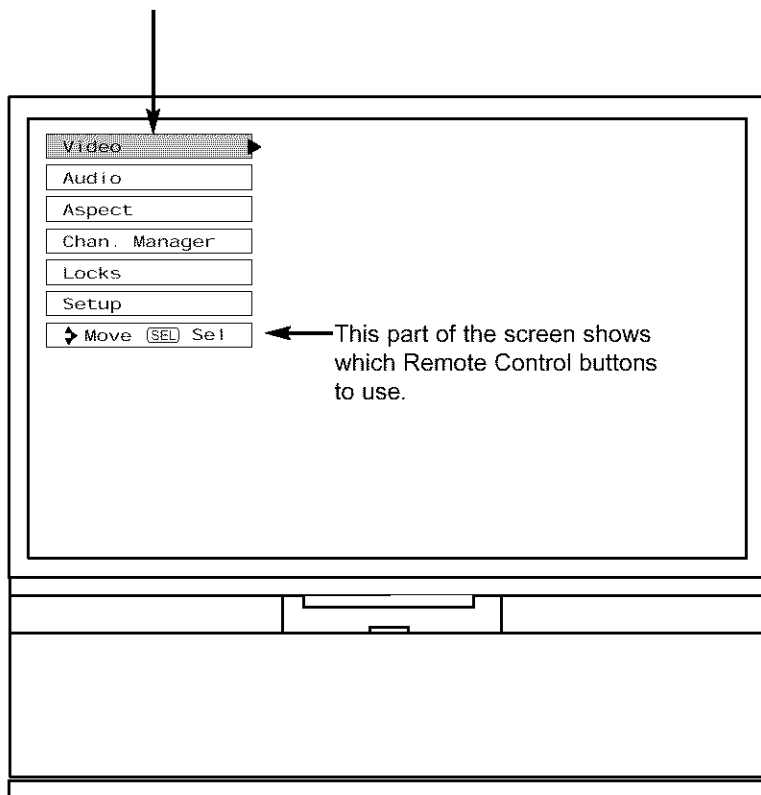


# ON-SCREEN DISPLAY (OSD)

1. Press MENU on the remote control to display the different features on your HITACHI Projection TV.
2. Press the THUMB STICK to highlight a different feature.
3. Press EXIT on the remote control to quickly exit from a menu.
4. Press AV Net on the remote control to access the PHOTO MC menu.
5. Press THUMB STICK ◀ or ▶ to access Favorite Channels menu.



This part of the screen shows which selections are available.



This part of the screen shows which Remote Control buttons to use.

# ON-SCREEN DISPLAY (OSD)

Video	Picture Mode	Select between the two picture modes; Day and Night.
	Contrast	Adjust contrast.
	Brightness	Adjust brightness.
	Color	Adjust color.
	Tint	Adjust tint.
	Sharpness	Adjust sharpness.
	Color Temperature	Set this to High for less intense color with more blue, set to Medium for natural color, set to Standard for standard colors or Black and White for more reddish color.
	Black Enhancement	Adjust shadow detail in dark screens.
	Edge Enhancement	Automatically enhances the edges between light and dark areas.
	Reset Video Settings	Choose the Reset Video settings.
	Color Management	Adjust and balance individual colors to make either deeper or more pure according to preference.
	Color Decoding	Adjust the percentage of Red, Green and Color according to preference.
	Auto Color	The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.
Noise Reduction	Reduces conspicuous noise in the picture.	
Auto Movie Mode	Turn ON/OFF the 3:2 Pulldown detection feature.	
Audio	Treble	Adjust the treble.
	Bass	Adjust the bass.
	Balance	Adjust the balance.
	Sound Enhancement	Select SRS and BBE settings.
	Audio Source	Select between three Audio Sources.
	Internal Speakers	Select internal or external speakers.
	Auto Noise Cancel	Eliminates the noise between stations.
	Perfect Volume	Adjust volume in fixed setting.
	Loudness	Adjust Loudness.
	Language	Select Language options if available.
	Digital Output	Select Optical Output options.
DRC	Select Dynamic Range Compression to ON or OFF.	
Aspect	Mode	Choose the picture format aspect ratio.
Channel Manager	Ant A (NTSC)	View/edit Channel ID, Scan, and Lock settings in antenna A.
	Ant B (NTSC)	View/edit Channel ID, Scan, and Lock settings in antenna B.
	Ant C (DTV)	View/edit Channel ID, Scan, and Lock settings in antenna C.
Locks	Change Access Code	Change Lock access code.
	Engage Lock	Choose to lock channel, video input, and front panel.
	TV Time Lock	Set specific time to Lock TV.
	Movie Ratings	Block various types of movies and video types based on motion picture ratings.
	TV Ratings	Block various types of movies and television programming based on a parental guide ratings.
	Canadian Ratings (ENG)	Block various types of movies and television programming based on the Canadian ratings system.
Canadian Ratings (FRN)	Block various types of movies and television programming based on the Canadian French ratings system.	
Setup	Magic Focus Tune Up	Automatic and manual alignment of the red, green and blue colors to make white.
	Menu Preference	Choose English, French, or Spanish text.
	Set The Clock	Set the TV clock. It must be set before using the Lock feature.
	Set The Inputs	Label Video Inputs , VCR, DVD, etc.
	Set The Color System	Set tint and color coordinates for DTV programs.
	Set Virtual HD	Select between 1080i and 540p signal.
	Set Black Side Panel	Set the gray side bars on/off when watching 4:3 signals in standard mode.
	Set Event Timer	Set viewing reservation for TV programs.
	Set Closed Captions	Feature to display dialogue/text.
	About Your TV	Information display for this TV.
	Set Timer Recording	Set Timer Recording for IEEE 1394 devices.
	Set Monitor Out	Set Monitor Out source.
	Upgrades	Software information for ANT C only.
	Set Stand-By Mode	Set the IEEE 1394 function in standby.

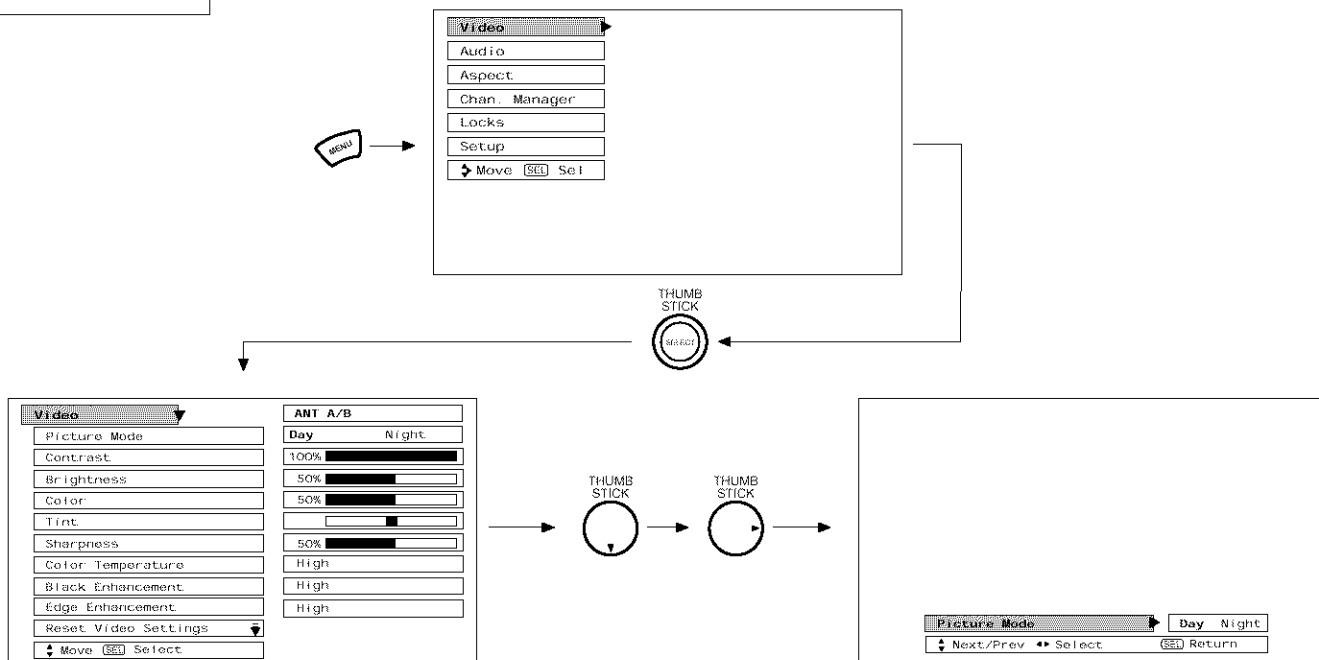
# VIDEO

## Video

Select VIDEO to adjust picture settings and improve picture quality. You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. If RESET is selected, only the selected mode will reset to initial conditions.

## Picture Mode

Use this function to choose from automatic picture settings to optimize your TV's performance.



Use THUMB STICK ◀ or ▶ to highlight and select Picture Mode settings.

Function	Day	Night	Reset
Contrast	100%	50%	Reset the video menu settings on current input to the Day or Night conditions depending on the selected VIDEO mode.
Brightness	50%	50%	
Color	50%	45%	
Tint	Center	Center	
Sharpness	50%	50%	
Color Temperature	High	Standard	
Black Enhancement	Middle	Low	
Edge Enhancement	High	Low	
Auto Color	Off	Off	
Noise Reduction	Off	Off	
Color Management (Set User Colors)	Off	Off	
Auto Movie Mode (TV/Cinema Detection)	Off	Off	

Press EXIT to quit menu or select PICTURE MODE to return to previous menu.

Use the THUMB STICK ▲ or ▼ to highlight the function to be adjusted.  
 Press the THUMB STICK ◀ or ▶ to adjust the function. Press down on THUMB STICK to select the function settings.  
 Press MENU to return to main menu or select PICTURE MODE to return to previous menu.  
 Press EXIT to quit menu.

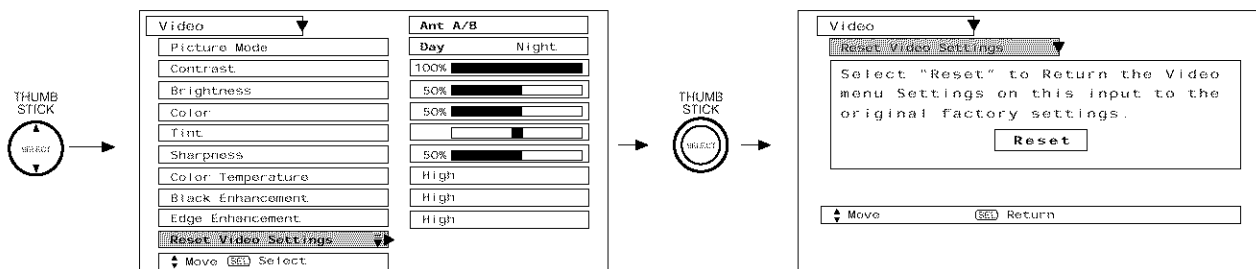
<b>Contrast</b>	Use this function to change the contrast between black and white levels in the picture.
<b>Brightness</b>	Use this function to adjust overall picture brightness.
<b>Color</b>	Use this function to adjust the level of color in the picture.
<b>Tint</b>	Use this function to adjust flesh tones so they appear natural.
<b>Sharpness</b>	Use this function to adjust the amount of fine detail in the picture. Sharpness function will be disabled when Noise Reduction is on.
<b>Color Temperature</b>	Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.
<b>Black Enhancement</b>	Use this function to enhance the shadow detail in dark scenes using the settings off, low, middle and high.
<b>Edge Enhancement</b>	Use this function to automatically enhance the edges between light and dark areas using the settings Off, Low, Middle and High.

- NOTES:**
1. If CONTRAST is selected, you are adjusting CONTRAST. The additional menu items BRIGHTNESS, COLOR, TINT, and SHARPNESS can be selected and adjusted in the same manner.
  2. Contrast will decrease automatically if stationary images such as digital photos are left on the screen for more than 3 minutes.
  3. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT VIDEO Y-P<sub>B</sub>P<sub>R</sub> input jacks.
  4. If you are using the COMPONENT VIDEO input jacks (Y-P<sub>B</sub>P<sub>R</sub>) and notice that the TINT and COLOR are abnormal, check to make sure that the VIDEO-Color System is set properly.
  5. ANT A/ANT B and ANT C have different Video settings. Also, each of the video inputs have their own settings.
  6. If CONTRAST is set to minimum level, the On-Screen Display (OSD) will be difficult to see.

# VIDEO

## Reset Video Settings

This function allows you to Reset the Video Menu Settings of the present input and return it to the Day VIDEO mode.

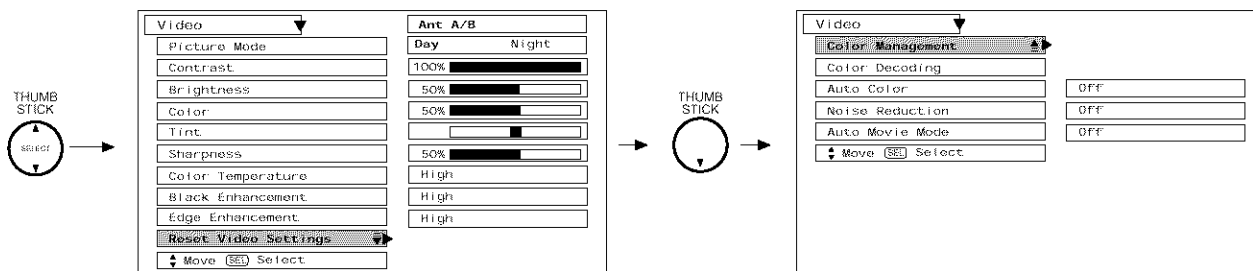


Use THUMB STICK to highlight functions.  
Press down on THUMB STICK to select Reset Video Settings.

Use THUMBSTICK ▼ to access other video settings.

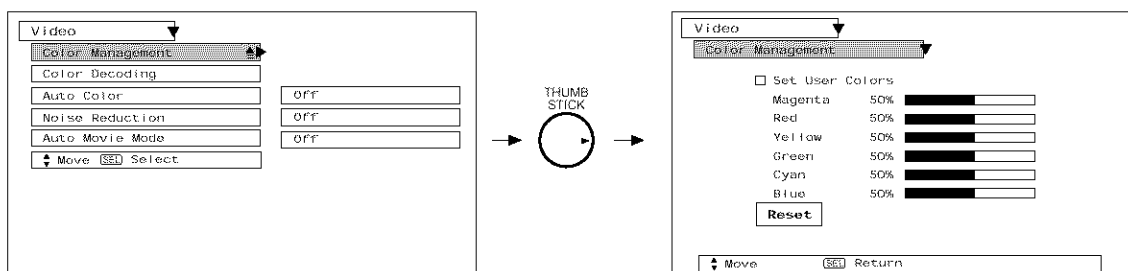
You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If RESET is selected, only the selected mode will reset to the initial conditions as explained above.

If RESET is selected in Video:1 mode, only Video:1 mode will return to factory conditions.



## Color Management

Use this function to adjust and balance the listed individual colors to make them either deeper or more pure depending on the user's preference.

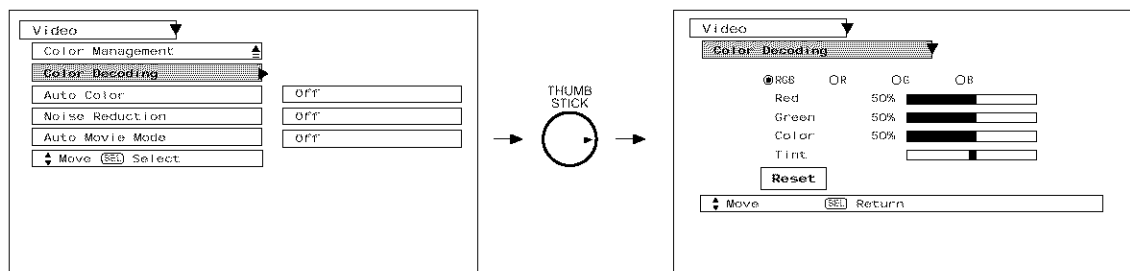


Use THUMBSTICK to highlight function.  
Press down to select the User Colors setting. When the function has a "✓" in the box, it is ON.  
Press THUMBSTICK ◀, ▶, ▼, ▲, to highlight and adjust individual colors.  
Use THUMBSTICK to highlight and select "Reset" to return all colors to default settings.

**NOTE:** When the Set User Colors box is not checked off, the listed colors will be grayed out.

## Color Decoding

Use this function to adjust the percentage of Red, Green and Color according to the user's preference. Use TINT to adjust flesh tones so they appear natural.



Use THUMBSTICK to highlight function.

Press down to select from 4 menu items.

Press THUMBSTICK ◀, ▶, ▼, ▲, to highlight and adjust Red, Green, Color and Tint.

Use THUMBSTICK to highlight and select "Reset" to return all settings to default.

**NOTE:** Color Decoding settings are independently stored in each of the 4 Color Temperature settings.

## Auto Color

The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.

- NOTES:**
1. When using Component or DVI-HDTV input, Auto Color will not be available (grayed out).
  2. When in ANT C, Auto Color will not be available (grayed out).

## Noise Reduction

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality. Set NOISE REDUCTION to OFF if the TV experiences picture blocking. When Noise Reduction is ON, Sharpness function is disabled (grayed out).

## Auto Movie Mode

The Auto Movie Mode function turns ON or OFF the 3:2 PULLDOWN DETECTION SPECIAL FEATURE. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pulldown.

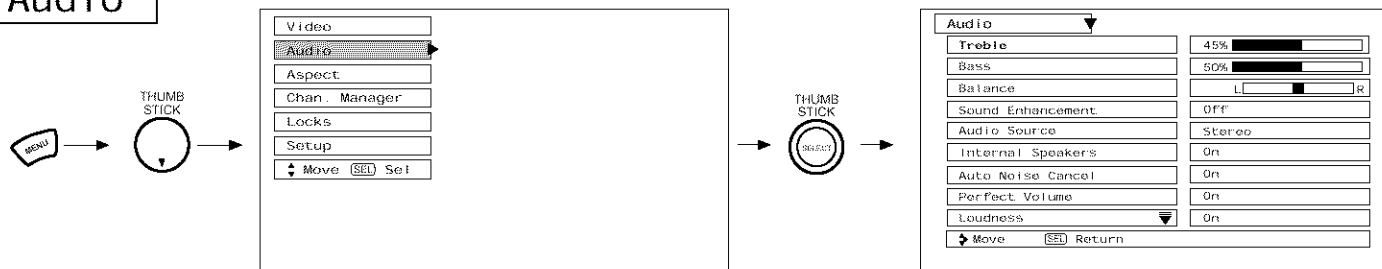
When Auto Movie Mode is turned ON from the VIDEO menu, your Hitachi Projection Television will activate the circuitry for this special feature to improve video performance when watching film based sources.

- NOTES:**
1. When using Progressive Scan Component or DVI-HDTV input (Ex. 480p, 720p, 1080i), Auto Movie Mode will not be available (grayed out).
  2. When in ANT C, Auto Movie Mode will not be available (grayed out).
  3. All Video settings are independent of each other based on it's input (ANT A/B/C, Input 1~5).

# AUDIO

## Audio

Select AUDIO to adjust the TV to your preference and to improve the sound quality.



Press THUMB STICK ▲, ▼, to select menu item.  
 Press THUMB STICK ◀ or ▶ to adjust the function.  
 Press EXIT to quit the MENU, or select Audio to return to the main menu.

**NOTE:** If TREBLE is selected you are adjusting treble. The additional menu items Bass and Balance can be selected and adjusted in the same manner.

### Treble

This function controls the high frequency audio to all speakers.

### Bass

This function controls the low frequency audio to all speakers.

### Balance

This function will control the left to right balance of the Projection TV internal speakers.

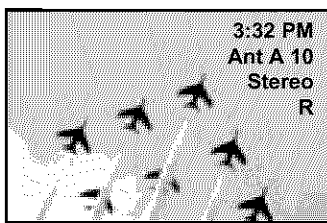
### Sound Enhancement

See page 48.

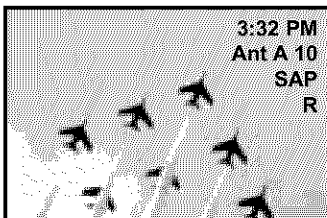
### Audio Source

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or 2nd Audio Prog (SAP) which may be a secondary language, weather report, etc. The sources received will be displayed at the top right edge of the TV. The source you select will be displayed above the sources received. See example below for each selection when both stereo and second audio are received (monaural is always received).

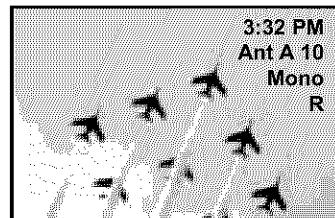
STEREO SELECTED



SAP SELECTED



MONO SELECTED



### Internal Speakers

This function is useful when setting up the external speakers.  
 ON - Select this feature if using the internal speakers only.  
 TV as Center - Select this feature when setting up external speakers from a separate stereo system. The TV's speakers will work as the center speaker.  
 OFF - Select this feature if you prefer to use only speakers from a separate stereo system.

### Auto Noise Cancel

This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

### Perfect Volume

This function will automatically adjust volume so each channel and input has the same average volume level.

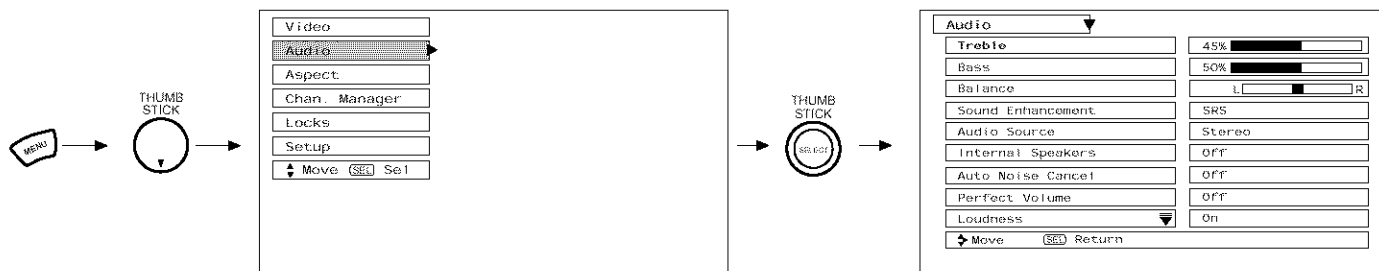
### Loudness

This function turns loudness ON or OFF. It will improve the quality of both low and high frequency sounds when listening at low volume levels.

ON-SCREEN DISPLAY

## Sound Enhancement

The following surround settings will reproduce the “live” sound you would hear in concert halls, sports stadiums, movie theaters, etc. with only two speakers.



To enter SOUND ENHANCEMENT, use THUMB STICK ▲ or ▼ to highlight then press THUMB STICK ► to select SOUND ENHANCEMENT of your choice (Off, SRS, BBE and SRS and BBE).

Use the THUMB STICK to highlight your sound enhancement choice, and press SELECT to select your choice.



Based on the principles of the human hearing system, SRS technology delivers an exciting and realistic 3D Sound experience from just two external speakers (or) the two internal speakers of your HITACHI Television. If your HITACHI Television is connected to an external audio system, SRS will also create an incredible 3D sound experience from two speakers and even enhance a complete multi-speaker surround sound system.

**NOTES:** \*SRS and the symbol are registered trademarks of SRS Labs, Inc. SRS technology is incorporated under license from SRS Labs, Inc.

## BBE Technology

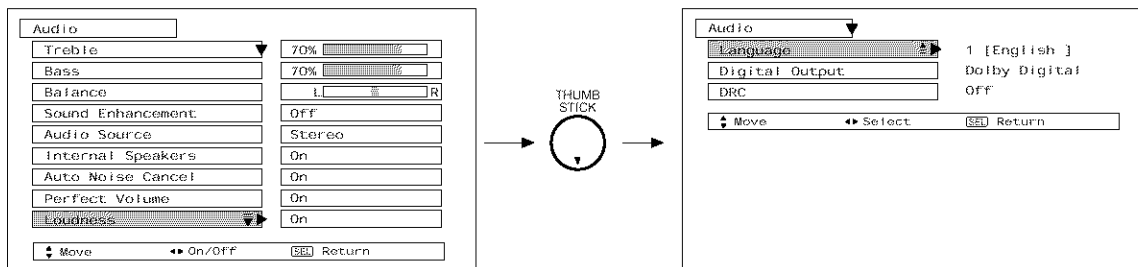
Sound reproduction quality enhancement system. The BBE technology produces sound that is natural and crisp from just two speakers (or) the two internal speakers of your HITACHI television. If your HITACHI television is connected to an external audio system, BBE will also create an incredible crisp sound experience from two speakers and even more complete and accurate reproduction of the original performance. BBE brings to the listener's ear a more complete and accurate reproduction of the original performance. Each voice, speaking or singing, each instrument or sound effect is presented with its attendant harmonics or partials more clearly audible. The ear can then more easily recognize the unique tonal colors of each sound as though the sound was being produced live.

**NOTES:** Licensed by BBE Sound, Inc. under USP4638258 and 4482866. BBE and BBE symbol are registered trademarks of BBE Sound, Inc. Manufactured under license from BBE Sound, Inc.



# AUDIO

Use the functions below if your TV is connected to an amplifier/receiver with optical digital input with Dolby Digital or PCM decoder capabilities. These functions are only available in Ant C.



## Language

Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 4 language options (if available). This function is only available in ANT C.

## Digital Output

This function allows you to select between Dolby® Digital and PCM.

Dolby® Digital - Select this feature if the TV is connected to an amplifier/receiver with a Dolby® Digital only decoder; it will provide six independent soundtrack channels through the optical output jack (Digital Audio).

PCM - Select this feature if the TV is connected to an amplifier/receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical output jack (Digital Audio).

## DRC

Dynamic Range Compression - Use this function to compress the range of sound volume. The default setting is ON. Use THUMB STICK ◀, ▶ to select the chosen options.

**NOTE:** \*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

## Aspect Mode

Use this function to select the Picture Format Aspect Ratio.

### Auto Aspect

Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.

Press THUMB STICK ▲, ▼, ◀, ▶ to select menu item.

Press down on THUMBSTICK to select. A "√" in the box indicates that the feature is ON.

- NOTES:**
1. The Auto Aspect function is recommended on an input signal with VIDEO ID.
  2. The Auto Aspect function is best used on composite video, S-Video, and 480i component signals.
  3. See page 27 for Aspect Mode availability.

### Vertical Position

This function allows you to select when aspect style is either 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM. Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480P signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).

Press THUMB STICK ▲, ▼, to select menu item.

Press THUMB STICK ◀ or ▶ to adjust the function.

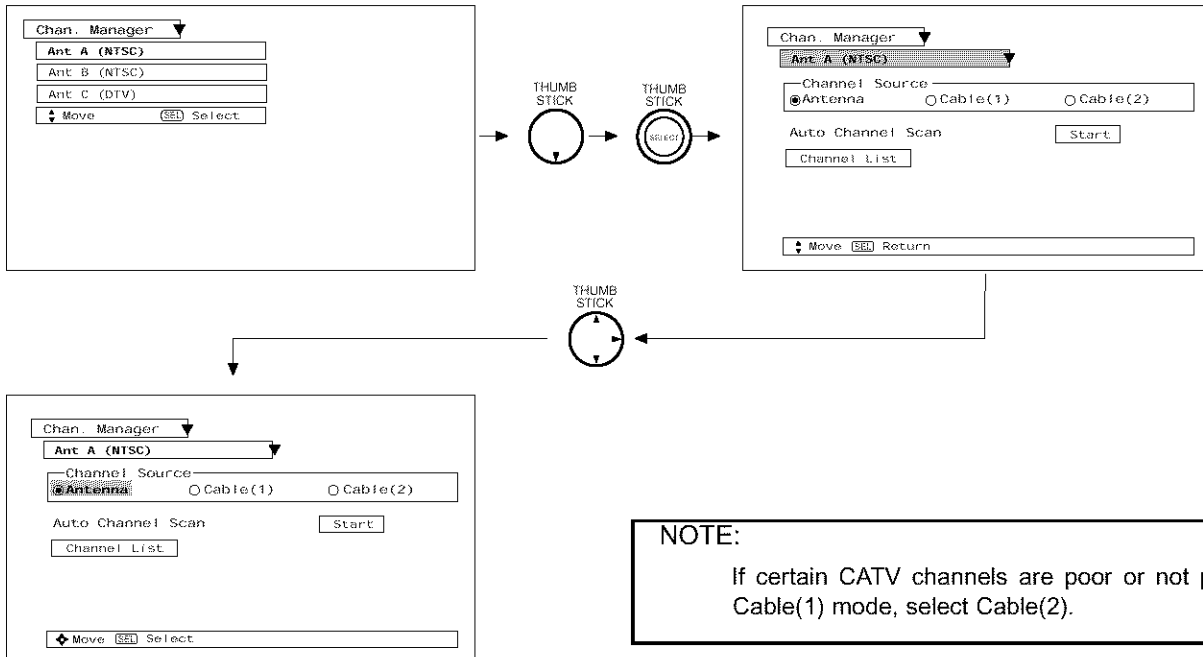
Press EXIT to quit the MENU, or select Aspect to return to the main menu.

**NOTE:** Vertical Position will not be available in 4:3 Standard and 16:9 Standard modes.

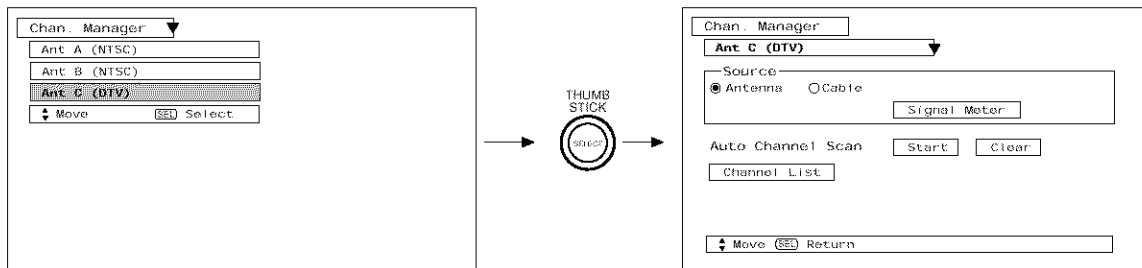
# CHANNEL MANAGER

## Chan. Manager

Select ANTENNA if you are using an indoor or outdoor antenna. Select Cable if you have cable TV.



Choose ANT C for digital signals. Select Antenna if you are using an indoor or outdoor antenna to receive your digital signals or select cable if you have digital cable.



Use THUMB STICK ◀, ▶ to highlight the correct signal source.  
 Press down on THUMB STICK to select highlighted signal source.  
 Press EXIT to quit MENU or select ANT A, ANT B or ANT C to return to previous menu.

# CHANNEL MANAGER

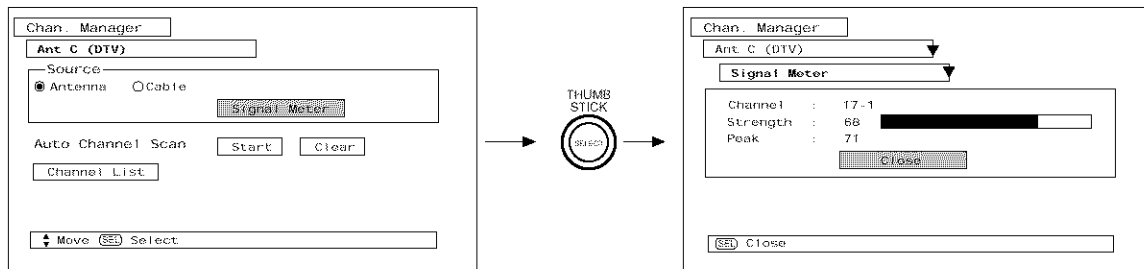
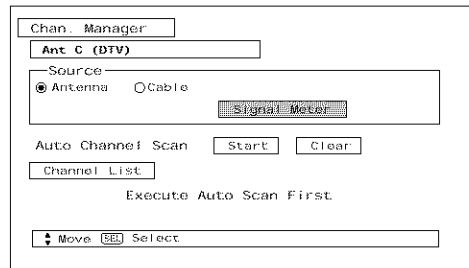
RECEPTION BAND	
AIR	CATV1 or CATV2
VHF 2~13ch UHF 14-69ch	1~125

Reception channels are shown at the left.

Refer to your cable or TV guide for channel identification standards.

## Signal Meter

When in ANT C, select Signal Meter when using an indoor or outdoor antenna. This feature will show the signal strength and peak values of the Antenna signal to help you adjust your antenna to optimize signal reception. If Auto Channel Scan is not performed first, you cannot use this feature and the screen below will appear (see page 55).



Press down on THUMB STICK to Close or press Exit to quit MENU.

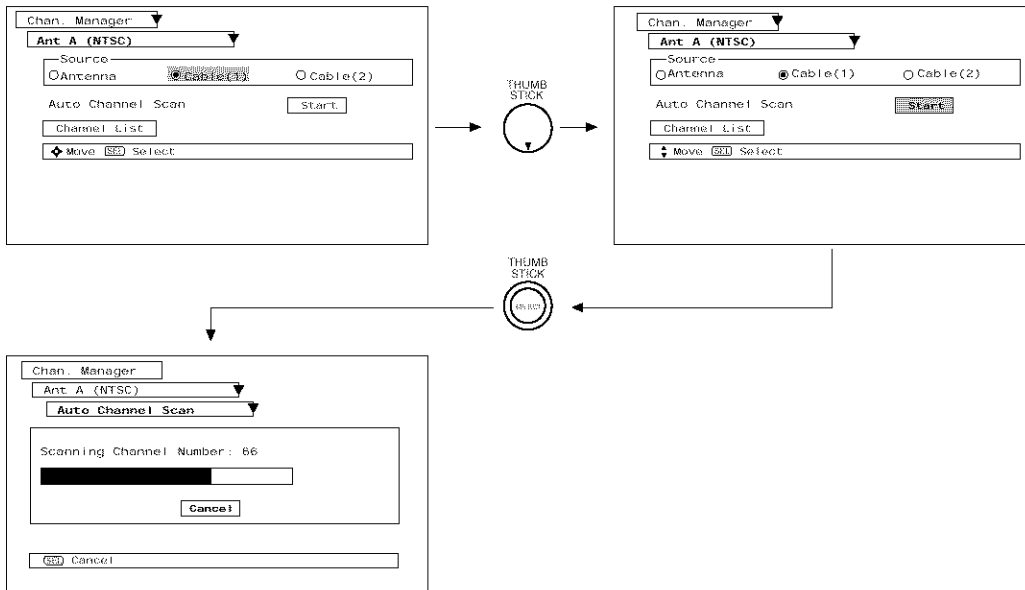
- NOTES:**
1. The signal meter menu will automatically disappear after 30 seconds.
  2. Weak signals will display a black screen (no video, no audio).
  3. Antenna positioning must be accurate for best signal reception.

# CHANNEL MANAGER

## Auto Channel Scan

This feature will automatically store active TV channels in Auto Channel Scan. This will allow you to skip unused channels when using CHANNEL UP (▲) or DOWN (▼).

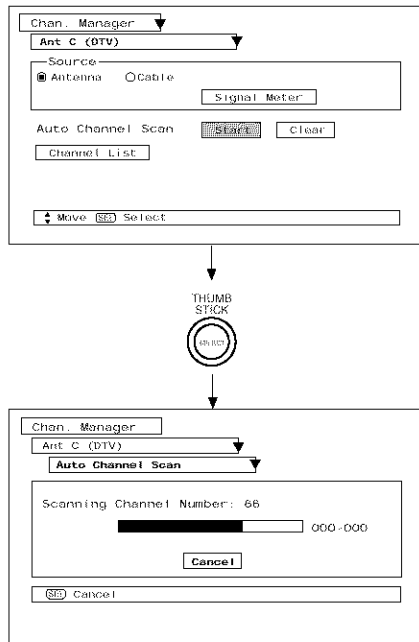
### ANT A/ANT B



If the EXIT button is pressed while AUTO CHANNEL SCAN function is engaged, programming will stop. If two antenna are connected, switch antenna inputs with the ANT button and repeat AUTO CHANNEL SCAN for the second antenna input.

Remember to select the correct ANTENNA/CABLE mode before using AUTO CHANNEL SCAN. See CHANNEL LIST - SCAN to add or to delete additional channels (see page 55).

### ANT C



Press down on THUMB STICK to cancel Auto Channel Scan.  
 Use THUMBSTICK to highlight Clear, then press down on THUMBSTICK to clear the Channel List.  
 Repeat Auto Channel Scan - Start.  
 Press EXIT to quit menu.

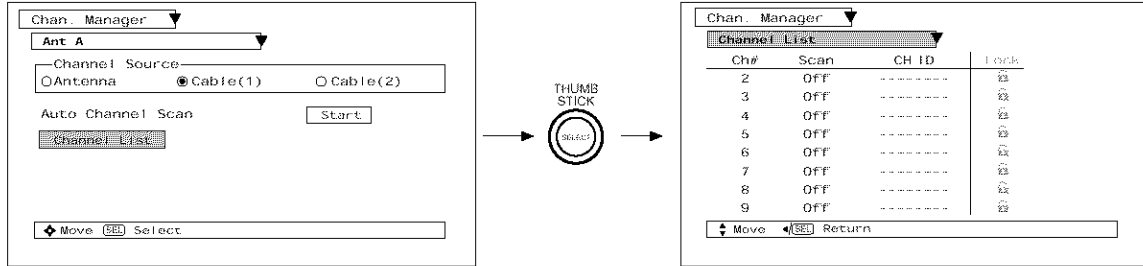
ON-SCREEN DISPLAY

- NOTES:**
1. Auto Channel Scan must be performed first when using ANT C for the first time.
  2. When in ANT C, only channels stored in Channel List during Auto Channel Scan can be tuned using the number buttons on the remote control (see pages 55-56).
  3. When Source-Cable is selected, performing Auto Channel Scan in ANT C will also store scrambled channels in its memory. These channels will be shown as blank on the screen when the channel selector buttons on the remote control are used. Please use CHANNEL LIST menu to skip (Scan - Off) these scrambled channels (see page 55).
  4. Turning the power off while executing Auto Channel Scan will only store channels scanned before the power interruption.
  5. If your ANT C source is an antenna, repeat Auto Channel Scan everytime antenna position/direction is changed.
  6. Channel availability in ANT C depends on the broadcaster. Certain channels that are available during the day may not be available at night.

# CHANNEL MANAGER

## Channel List

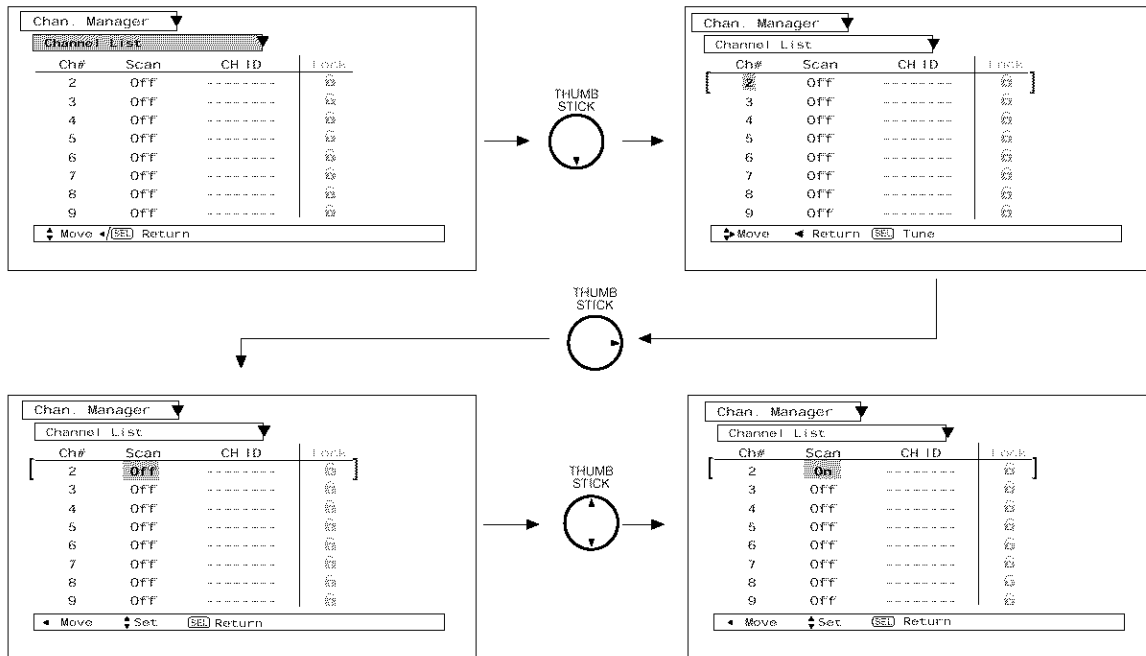
This function allows you to review which channels are labeled (CH ID), which have been added to Channel Memory (SCAN), and which are protected by LOCK.



Press THUMB STICK ▲ or ▼ to review more channels.  
Press EXIT to quit the menu.

## Scan

Use this feature after Auto Channel Scan is completed to add (On) or skip (Off) additional channels to the remote control channel ▲ or ▼ buttons.



To add (Scan-On) or skip (Scan-Off) additional channels while in Channel List, THUMB STICK ◀ to highlight the channel number, then THUMB STICK ▲ or ▼ to highlight other channels. Once the desired channel is highlighted, THUMB STICK ▶ to scan column, then THUMB STICK ▲ or ▼ to select ON or OFF.

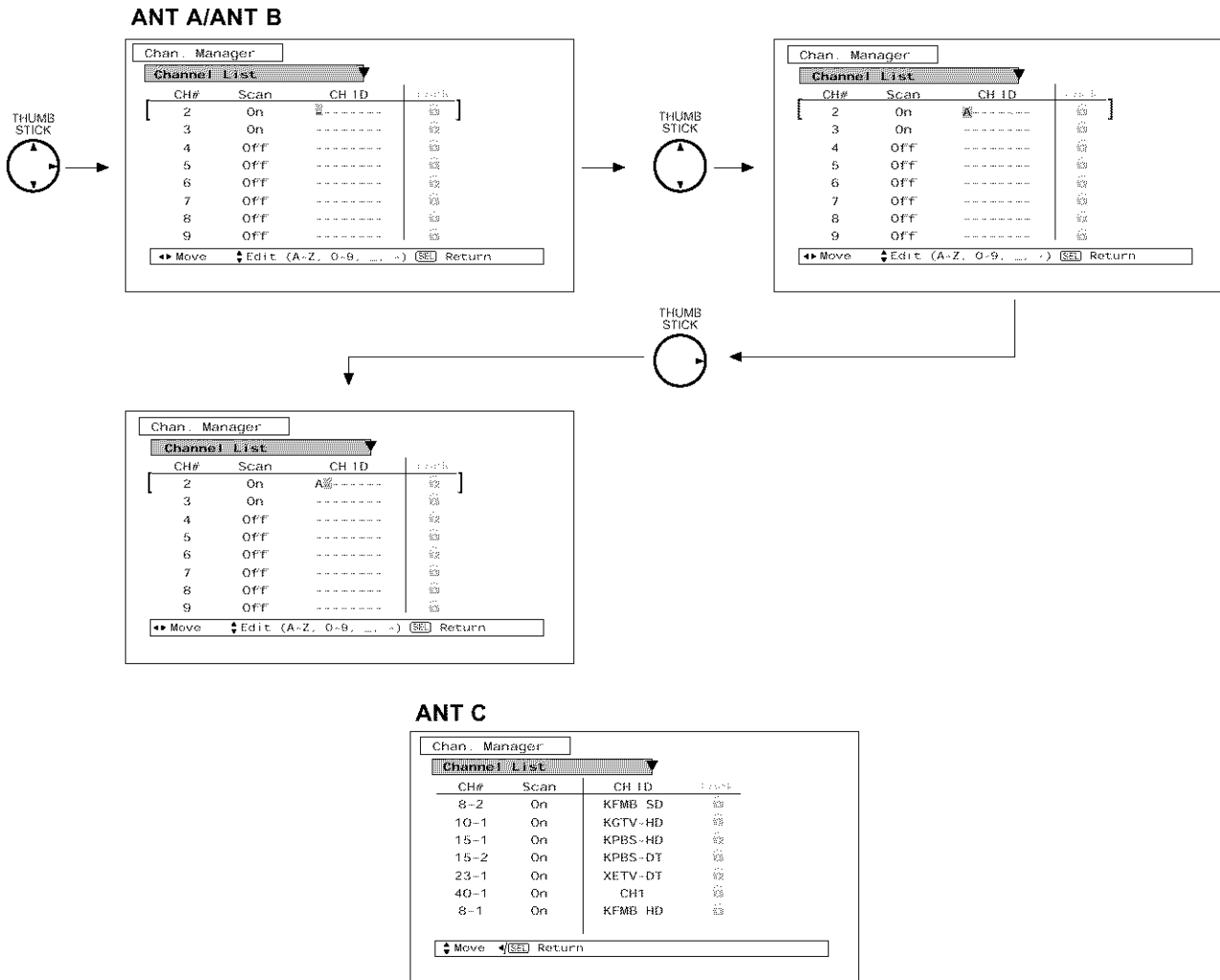
**NOTE:** Lock feature cannot be selected or set in CHANNEL LIST.

ON-SCREEN DISPLAY

# CHANNEL MANAGER

## Channel ID

This selection contains advanced features which will make TV viewing easier and more enjoyable. Use this feature to give up to 20 channels a name when ANTENNA signal source is selected and up to 60 channels a name when CATV signal source is selected.



- NOTES:**
1. CHANNEL ID will be displayed only when channel is displayed as main picture.
  2. CHANNEL ID in ANT C are automatically set by the channel broadcaster and cannot be changed to your preference.
  3. To get CHANNEL ID in ANT C, Auto Channel Scan must be done first.
  4. ANT C will have no channel listing if there are no available channels.
  5. CHANNEL ID in ANT C will not be displayed when PIP is on.

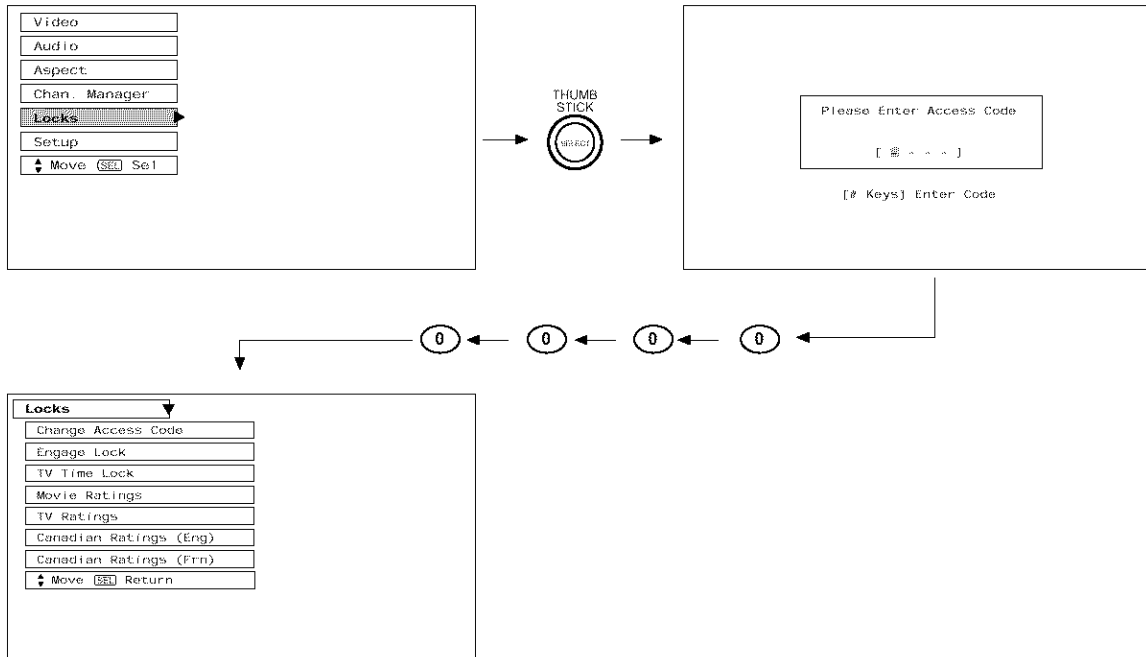


# LOCKS

## Locks

This function will block out the picture and sound of the selected channel or video input. It can also be used to keep the TV from being viewed for a scheduled time period that you set.

The code to enter the Locks feature is a four digit secret code number. The factory preset code is 0000. Use the number buttons to select secret code.



Use THUMB STICK ▲ or ▼ to highlight function and then press SELECT button. To change the secret code number, select Change Access Code. Enter a new four digit key number you prefer.

Select CHANGE ACCESS CODE to change the factory preset code (0000) to your preference.

When ENGAGE LOCK is selected, SET CHANNEL LOCK, SET INPUT LOCK, and SET FRONT PANEL LOCK can be set individually.

When SET CHANNEL LOCK is turned on, the picture and sound for the chosen channel will be blocked out.

When SET INPUT LOCK is turned on, the picture and sound for all video inputs and the picture and sound for channels 3, 4 will be blocked out.

When FRONT PANEL LOCK is turned on, all buttons on the Front Panel will be deactivated, except the Power button.

When TV TIME LOCK is turned on (☑ TIME LOCK) you can set the BEGIN and END times (THUMB STICK ►) and the TV cannot be viewed during that time period (Set clock first). Use CURSOR ▲ or ▼ to highlight ONCE (TV will time out one time only), DAILY (TV will time out every day), WEEKLY (TV will time out one time a week).

When MOVIE RATINGS is selected, you can block various types of movies and video tapes based on motion picture ratings. Picture-in-Picture will also be blocked automatically (see page 58).

When TV RATINGS is selected, various types of television programming based on a parental guide ratings will be blocked. Picture-in-Picture will also be blocked automatically (see page 59).

Use CANADIAN RATINGS to block various types of movies and television programs based on the two rating systems used in Canada that you feel may be inappropriate due to its content (see pages 60-61).

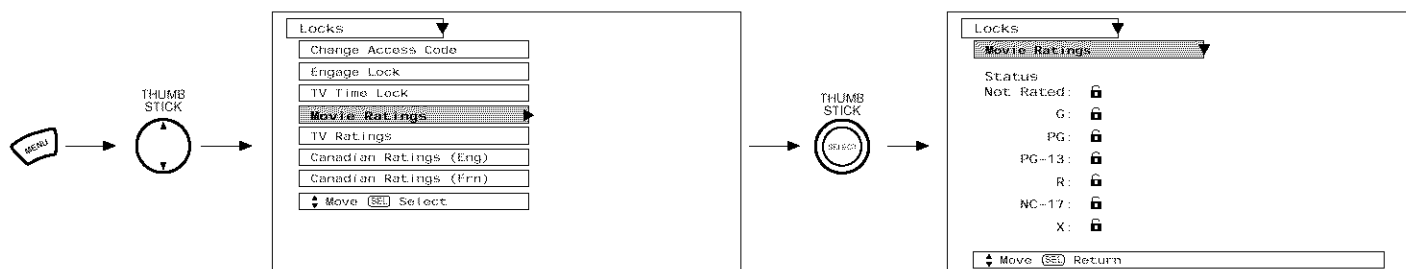
If you forget your secret code, use the factory code 7777 to erase your key number. This will reset the secret code number back to the factory preset 0000.

Press EXIT to quit the menu.

- NOTE:**
1. If ANT A and ANT B are in the same channel source mode (see page 51), when a channel is locked, it is locked on both antenna inputs.
  2. When using TV TIME LOCK make sure the clock is set (see page 66).
  3. Text appears on the screen to indicate that TV TIME LOCK is activated.
  4. If MOVIE/TV Ratings Lock function settings are ON, SURF will be deactivated.

## Movie Ratings

Use MOVIE RATINGS to prevent viewing of any movie that you feel may be inappropriate due to its content.



Use THUMB STICK ▲ or ▼ to select the MOVIE RATING category that you want to block. Press SELECT to block the MOVIE RATING that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17, and X) will be blocked. Press EXIT to quit the menu or select MOVIE RATING to return to the previous menu.

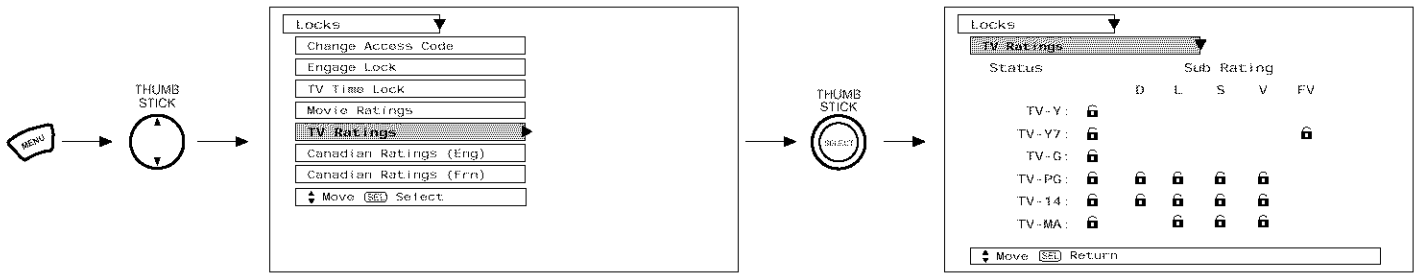
## Motion Picture Ratings Chart

G	<b>General audiences.</b> All ages admitted.
PG	<b>Parental guidance suggested.</b> Some material may not be suitable for children.
PG-13	<b>Parents strongly cautioned.</b> Some material may be inappropriate for children under 13.
R	<b>Restricted.</b> Under 17 requires accompanying parent or adult guardian.
NC-17	<b>No one 17 and under admitted.</b>
X	<b>Adults only</b>
NOT RATED (NR)	<b>Contains no rating. Not Rated (NR) and Not Applicable (NA) programs.</b> Movie has not been rated or ratings do not apply.

# LOCKS

## TV Ratings

Use TV RATINGS to prevent the viewing of any TV program that you feel may be inappropriate due to its content.



Use THUMB STICK ▲ or ▼ to highlight the category that you want to block.  
 Press select to block the TV RATINGS that you have selected.  
 Press EXIT to quit the menu or select TV RATINGS to return to the previous menu.

## TV Parental Guide Ratings Chart

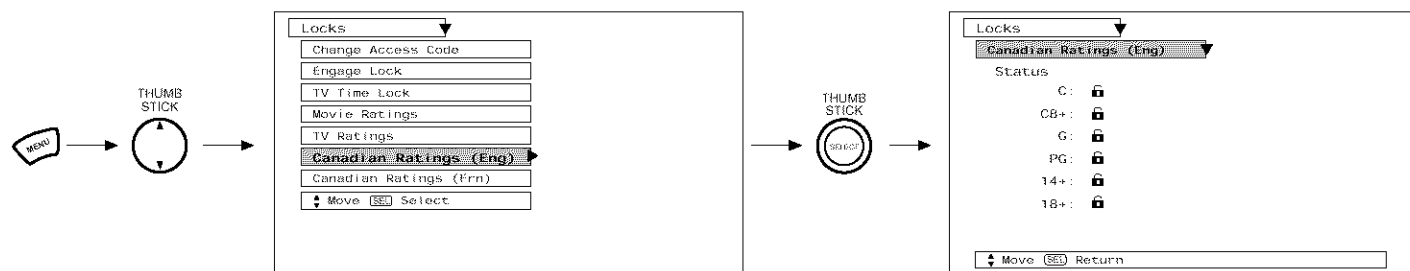
N/A	None.
TV-Y	<b>All children.</b> The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	<b>Directed to older children.</b> Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	<b>General audience.</b> It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	<b>Parental guidance suggested.</b> The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	<b>Parents strongly cautioned.</b> This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	<b>Mature audiences only.</b> This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.
FV	<b>Fantasy Violence</b>
V	<b>Violence</b>
S	<b>Sexual Situation</b>
L	<b>Adult Language</b>
D	<b>Sexually Suggestive Dialogue.</b>

### NOTE:

If you Block TV-14D, you will still permit TV MA programs; If you block TV-14DV, you will automatically block TV-MAV programs, but you will still permit TV-MALS programs. This means that the TV will block violence in TV-14 and higher (TV-MA), but not language and sex.

## Canadian Ratings (Eng)

Use Canadian Ratings (Eng) to block any type of movie and television program in Canada that you feel might be inappropriate in its content.



Use THUMB STICK ▲ or ▼ to select the CANADIAN RATINGS (Eng) category that you want to block. Press SELECT to set the CANADIAN RATINGS (Eng) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked automatically. Press EXIT to quit menu.

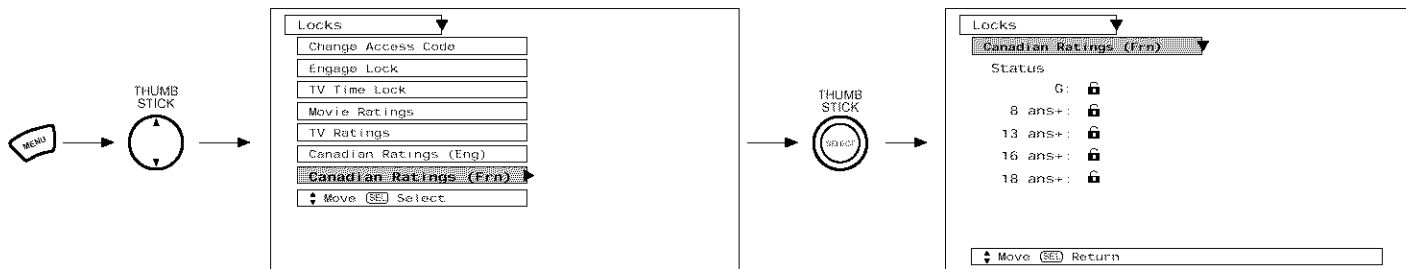
## Canadian Ratings English Chart

C	<b>Programming intended for children under age 8</b> - Violence Guidelines; Careful attention is paid to themes, which could threaten children's sense of security and well-being. There will be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	<b>Programming generally considered acceptable for children 8 years and over to watch on their own</b> - Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.
G	<b>General Audience</b> - Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.
PG	<b>Parental Guidance</b> - Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.
14+	<b>Programming contains themes or content which may not be suitable for viewers under the age of 14</b> - Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
18+	<b>Adult</b> - Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

# LOCKS

## Canadian Ratings (Frn)

Use CANADIAN RATINGS (FRN) to block Canadian French programs according to various program ratings that you feel might be inappropriate in its content.



Use THUMB STICK ▲ or ▼ to highlight the category that you want to block.

Press SELECT to set the CANADIAN RATINGS (FRN) that you have selected.

Once rating is selected, for example 8 ans+, all movies and television programs rated 8 ans+ and higher will be automatically blocked.

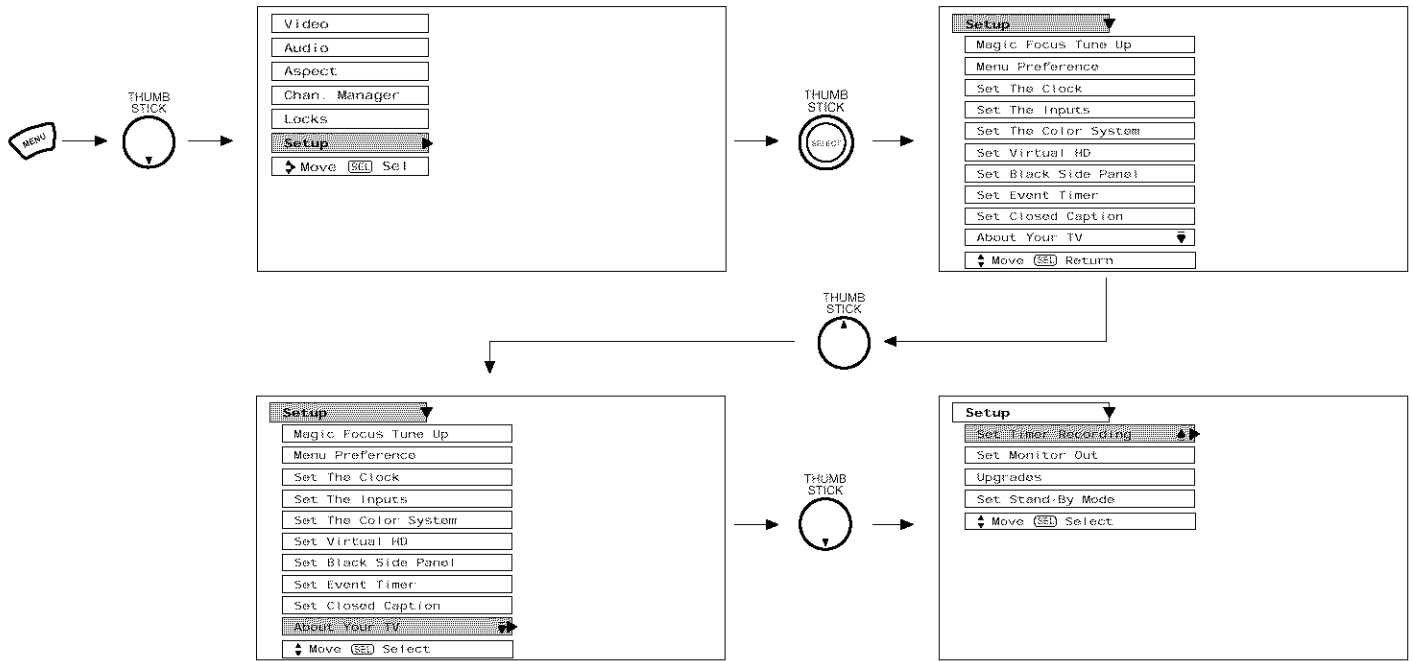
Press EXIT to quit menu or select THUMB STICK ◀ to return to the previous menu.

## Canadian Ratings French Chart

G	<b>General</b> - Programming intended for audiences of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans +	<b>8 + General - Not recommended for young children</b> - Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is therefore recommended for young children (under the age of 8) who cannot differentiate between real and imaginary portrayals.
13 ans +	<b>Programming may not be suitable for children under the age of 13</b> - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an adult is therefore strongly recommended for children under 13.
16 ans +	<b>Programming is not suitable for children under the age of 16</b> - Contains frequent scenes of violence or intense violence.
18 ans +	<b>Programming restricted to adults</b> - Contains constant violence or scenes of extreme violence.

## Setup

Select SETUP when setting your TV up for the first time. Use the THUMB STICK ▲ or ▼ on the remote to highlight the function desired.



Use THUMB STICK ▲, ▼, ◀, ▶ to highlight the sub-menu of your choice. Press down on THUMBSTICK to select.

# SETUP

## Magic Focus Tune Up

### Auto Digital Convergence Adjustment

Please turn ON your television for at least 20 minutes before using this feature.

The Magic Focus button on control panel will not work when adjustment mode is set to Manual (see page 64).

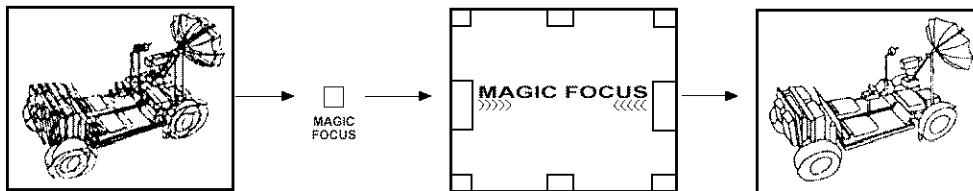
Your HITACHI Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called "convergence".

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

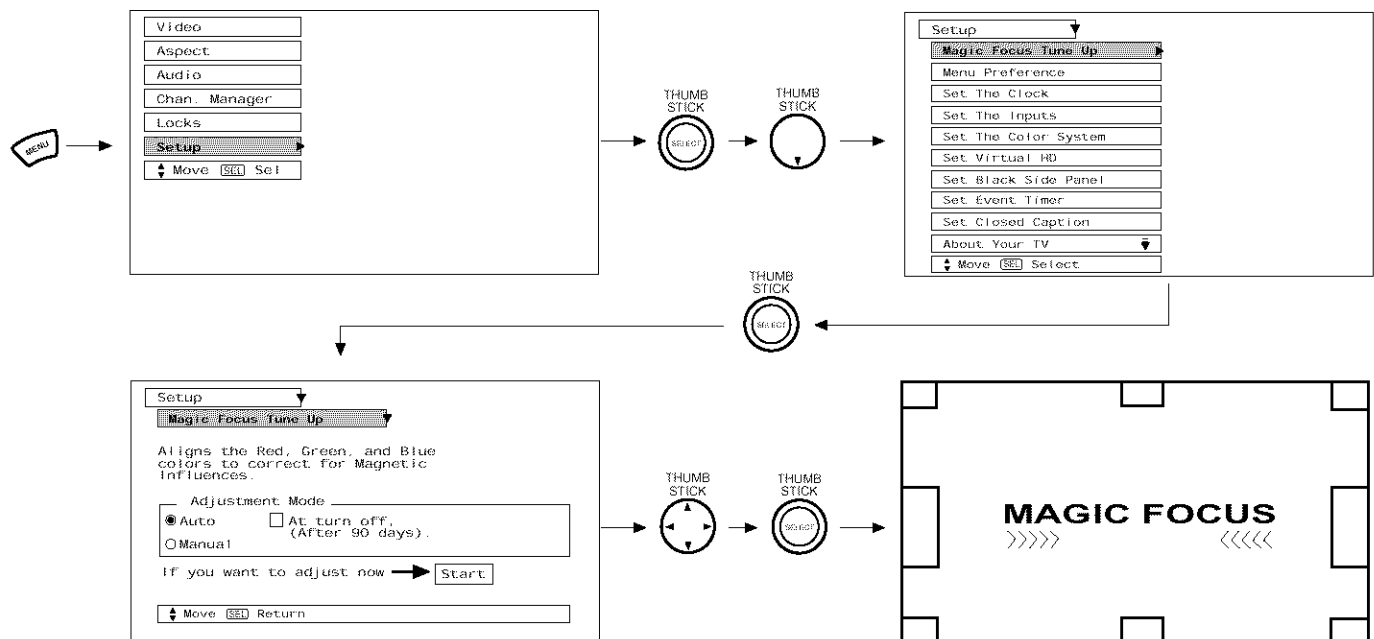
Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.

To simplify convergence, HITACHI incorporates a function called MAGIC FOCUS located on the front control panel, which allows the TV to self-adjust. Press this MAGIC FOCUS button and the convergence self adjustment will start and this process will take approximately 20 seconds. If this button is pressed during this process, no change in picture quality will occur. After this 20 second self-adjust period, picture quality will be optimum (do not move the TV during self-adjust).

You may also select MAGIC FOCUS TUNE UP from the Setup Menu.



**NOTES:** Only a momentary press of the MAGIC FOCUS button is necessary to start AUTO DIGITAL CONVERGENCE. At any time during this convergence correction process, you may press the MAGIC FOCUS button to exit the MAGIC FOCUS mode. However, the convergence correction process needs to be completed to SAVE the new corrected convergence data.



ON-SCREEN DISPLAY

## Manual Convergence Adjustment Mode

- NOTES:**
1. Please turn ON your television for at least 20 minutes before using this feature.
  2. Auto Adjustment Mode is recommended. If convergence is still not acceptable, use the Manual Adjustment Mode. DO NOT press MAGIC FOCUS or use Auto Adjustment Mode after using Manual Adjustment Mode.

Using the Remote Control, select SETUP-MAGIC FOCUS TUNE UP-MANUAL ADJUSTMENT MODE-START to access convergence crosshatch pattern. The adjustment point is indicated by the Adjustment Point Cursor.

### To Move Adjustment Point

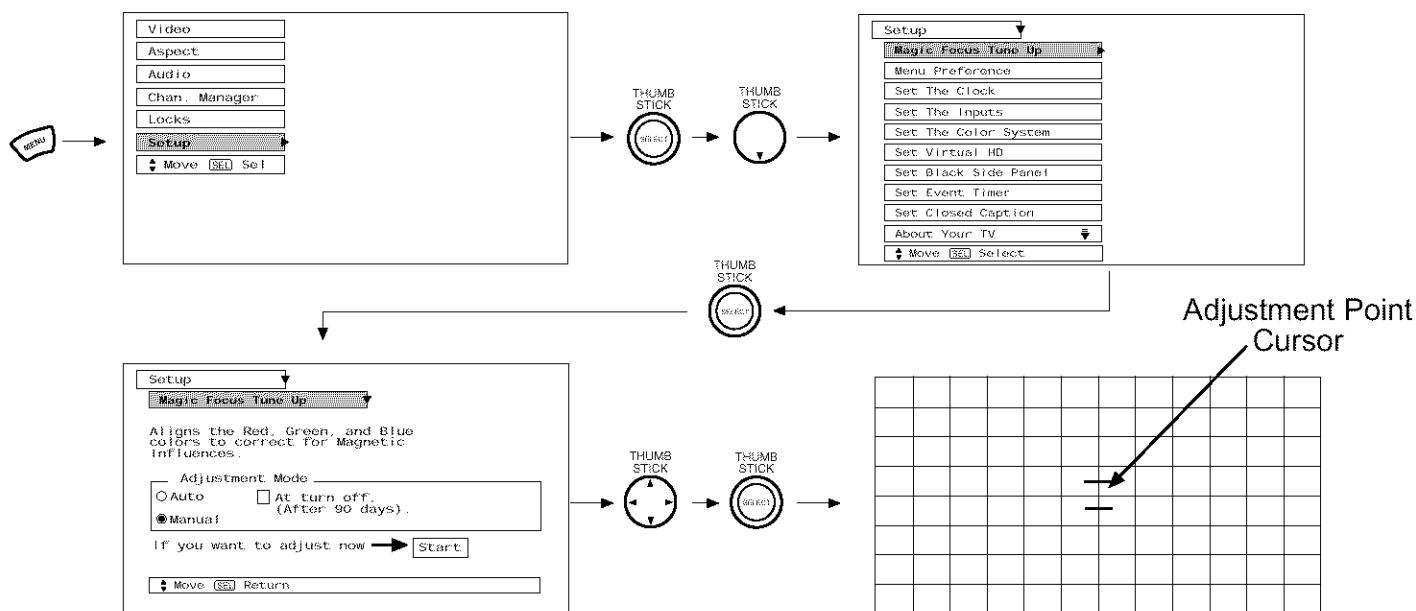
To move the adjustment point cursor using the THUMBSTICK, the Adjustment Cursor must be WHITE. Another way to move the Adjustment Point Cursor is to press the following buttons: [2] up, [4] left, [5] down, [6] right. If you use the number buttons while the adjustment point is WHITE, it will change to RED.

### To Change the Color of Adjustment Point

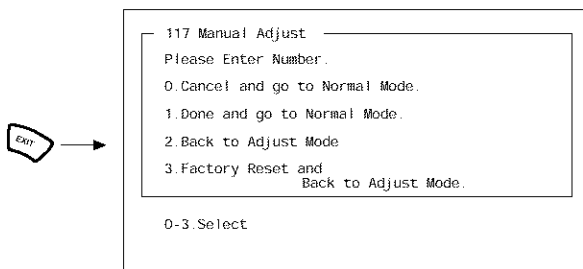
Press the SELECT button repeatedly (WHITE-RED-BLUE-WHITE...). Green color is fixed and cannot be adjusted.

### To Adjust the Convergence

Move the Adjustment Cursor to the point to be adjusted. Use the THUMB STICK to match the RED and BLUE colors to GREEN (reference color). Properly aligned, all three colors should appear white.



If convergence is acceptable after Manual Convergence adjustment, press EXIT button to access menu mode.



Press the [0] button on the remote control to CANCEL adjusted data and return to main picture.

Press the [1] button on the remote control to SAVE adjusted data and return to main picture.

Press the [2] button on the remote control to return to the manual convergence adjustment mode (crosshatch pattern).

Press the [3] button on the remote control to recall the factory pre-set convergence data.

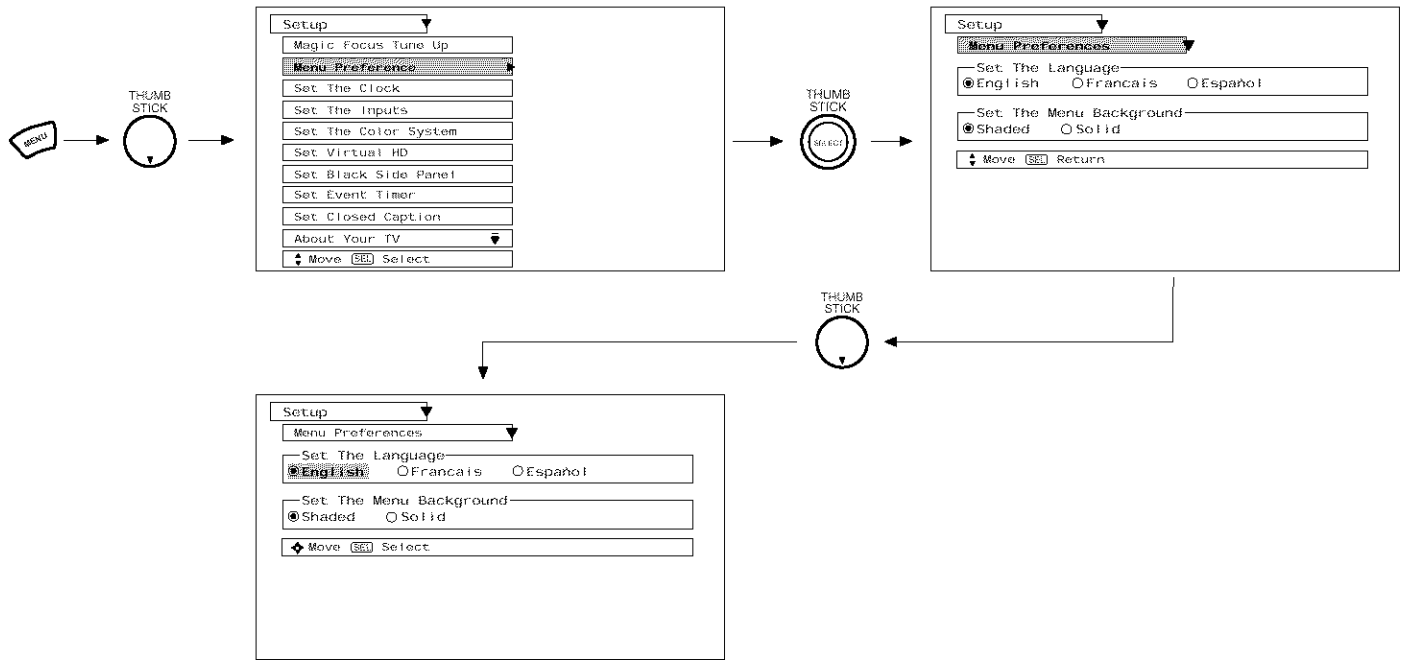
Press the [9] button on the remote control to read the SAVED adjusted data. If there is no saved data, pressing the [9] button will recall the factory pre-set data.



# SETUP

## Menu Preference

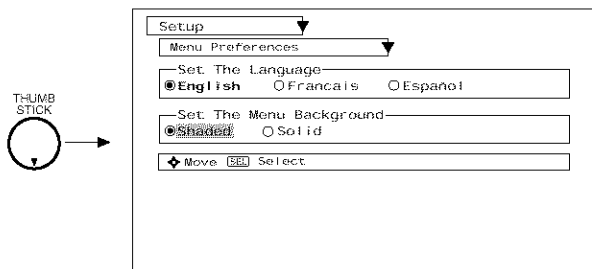
This feature will allow you to select any one of three different languages for all on-screen displays.



Use THUMB STICK ◀, ▶ to highlight the language of your choice.  
Press SELECT to select the highlighted language.  
Press EXIT to quit menu or select MENU PREFERENCE to return to previous menu.

## Menu Background

This function allows you to choose from two menu backgrounds.



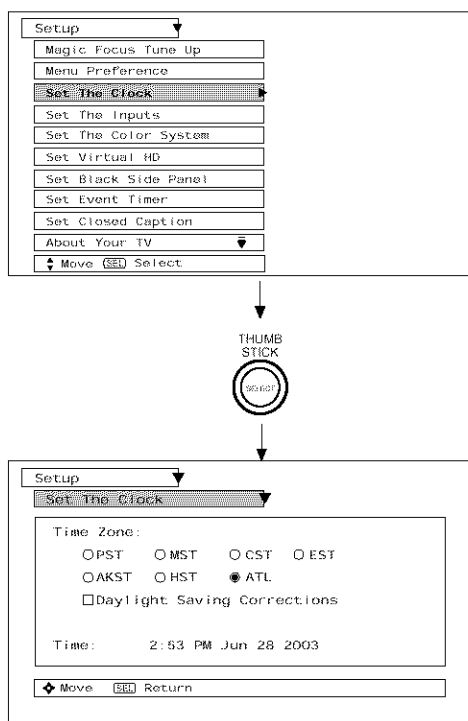
Use THUMB STICK ◀, ▶ to highlight SET THE MENU BACKGROUND (shaded or solid), and press down on THUMB STICK to select setting.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

Select SOLID for a black background (no picture can be seen behind menu screen), or select SHADED for a light background.

## Set The Clock

The clock must be adjusted before you can use the "Set Event Timer" or "TV Time Out" features.



Use THUMBSTICK ▲, ▼, ◀, ▶ to highlight the chosen Time Zone settings.

Press down on THUMBSTICK to select.

If you observe daylight savings, use THUMBSTICK to highlight "Daylight Saving Correction" and press down on THUMBSTICK to select.

Use THUMBSTICK ▲, ▼, ◀, ▶ to highlight the current time (hour and minute), AM or PM, Month, Day, and Year.

Use THUMBSTICK ▲, ▼ to adjust settings.

Press down on THUMBSTICK to set the Time and Date.

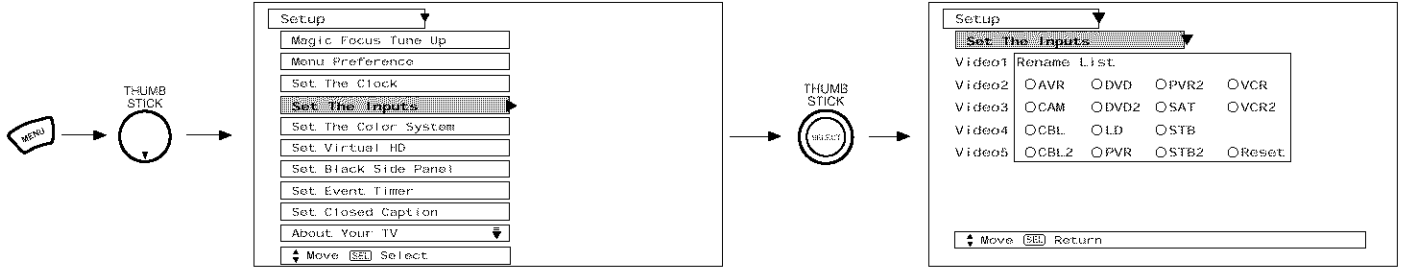
Press EXIT to quit menu.

**NOTES:** When "Daylight Saving Correction" is checked "✓", the TV will automatically calculate the clock adjustment for Daylight Saving.

# SETUP

## Set The Inputs

Use this feature to give a name to any of the five video inputs.

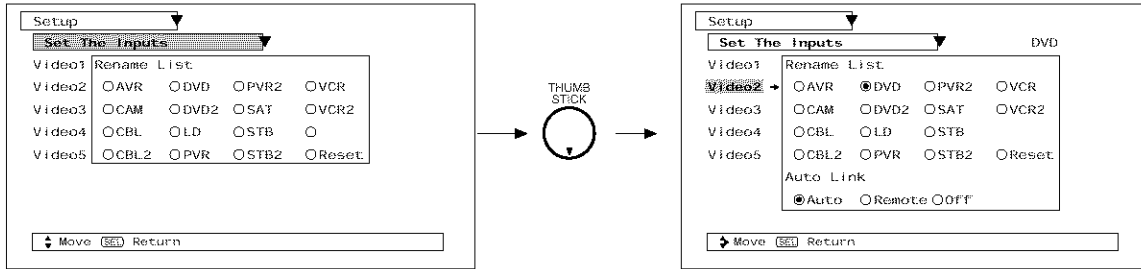


Press THUMB STICK **▲**, **▼**, **◀**, **▶**, to highlight the name of the video inputs.  
Press down on THUMB STICK to select desired input name.

Select RESET to set video names to original factory preset condition.

## Video 2 Auto Link

Use this function to automatically turn the TV on and tune to Video2 when it detects a video signal to input 2.



Use THUMB STICK **◀**, **▶**, **▲** or **▼**, then press down on THUMB STICK to change AUTO LINK setting.

When AUTO is selected, the TV will turn on and tune to Video2 automatically, when the Video2 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player, or DVD player.

When REMOTE is selected, the TV will turn on and switch to Video2 automatically when the Video2 input device is turned on and the VCR, laserdisc, or DVD play button on your remote control is pressed.

This is convenient when you want to record a movie with your VCR and watch it later.

Select Off to disable this function.

Press EXIT to quit menu.

- NOTES:**
1. Once the TV has been turned on using the AUTO LINK feature, it must be reset before AUTO LINK is used again. To do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described above.
  2. When using REMOTE mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.
  3. If no remote control button is pressed after the TV is turned on by AUTO LINK, the TV will automatically turn off after three hours.

## Set The Color System

This function allows you to automatically change tint and color coordinates for DTV programs.  
HDTV - High Definition Television - Use for High Vision Signal Y-P<sub>B</sub>P<sub>R</sub> from HDTV Set-Top Box.  
SDTV/DVD - Standard Definition Television or DVD (Digital Versatile Disc Player) Y-C<sub>B</sub>C<sub>R</sub>.

- NOTES:**
1. If Color System is set improperly (does not match actual input signal), the color and tint of the main picture will be abnormal.
  2. You must be tuned to VIDEO: 1 or 2 inputs and have a component hooked up to the Y-P<sub>B</sub>P<sub>R</sub> input jacks to access this color system.
  3. All component color type settings will affect only color component input you are currently viewing. If you are using both sets of component input jacks, be sure to set the color system feature for both inputs.

## Set Virtual HD

Use this feature to select between 1080i and 540p (see page 28).

**NOTE:** Set Virtual HD is not available (grayed out) in ANT C.

## Set Black Side Panel

The BLACK SIDE PANEL function turns the gray side bars on/off when watching 4:3 signals in Standard mode. The top/bottom gray bar will appear in SPLIT MODE PIP and SPLIT FREEZE.

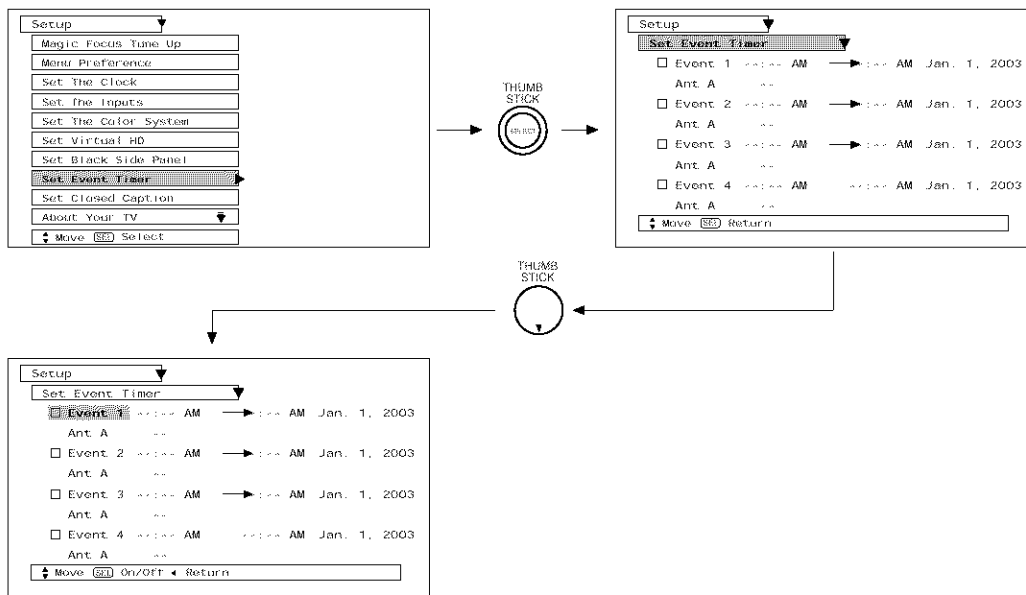
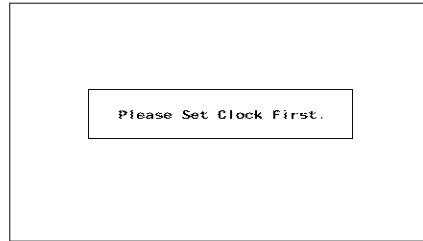
**NOTE:** To maximize operating life of the TV's picture tubes when watching 4:3 signal, Black Side Panel is cancelled at Power OFF. It is recommended to watch 4:3 signal with gray side bar.

# SETUP

## Set Event Timer

This function will automatically operate the Projection TV viewing reservation of a program.

If the clock is not set, you can not use this function and the screen below will appear. The message on the screen will disappear after 3 seconds, then the screen automatically goes to the clock setup mode (see page 66).



- Use THUMBSTICK ▲, ▼ to highlight Event 1, Event 2, Event 3 and then press THUMBSTICK to select.
- Use THUMBSTICK ►, ▲, ▼ to highlight and select START TIME Hour/Minute.
- Use THUMBSTICK ►, ▲, ▼ to highlight and select START TIME AM/PM.
- Use THUMBSTICK ►, ▲, ▼ to highlight and select FINISH TIME Hour/Minute.
- Use THUMBSTICK ►, ▲, ▼ to highlight and select FINISH TIME AM/PM.
- Use THUMBSTICK ► to highlight the MONTH.
- Use THUMBSTICK ▲ to select a MONTH or THUMBSTICK ▼ to select Daily, Weekly - Sunday to Monday. Use THUMBSTICK ◀ to return to MONTH.
- Use THUMBSTICK ►, ▲, ▼ to highlight and select the DAY of the MONTH.
- Use THUMBSTICK ►, ▲, ▼ to highlight and select the YEAR.
- Press down on THUMBSTICK to return and highlight Record 1.
- A "√" in the box means it is enabled.

**NOTE:**

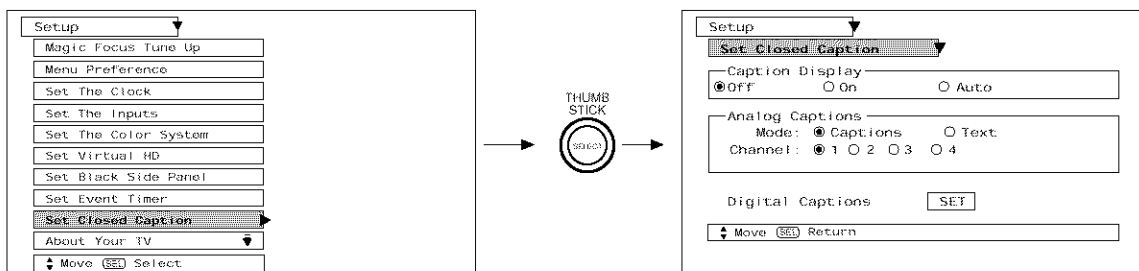
1. When the INFO button is pressed, the Event Timer Icon will only display the current date ON/OFF timer.
2. The Off Timer will only activate if the TV was turned on by the On Timer and no channel selection was made after this time. If you change the channel after the On Timer has been activated, the Off Timer will deactivate.
3. If no remote control button is pressed after viewing reservation is activated, the TV will automatically turn off after three hours. Therefore, do not Set Event Timer for more than three hours if you do not plan to control your television with the remote control.

**CAUTION:** Do not use your TV as a deterrent when away from home by using the On and Off Timers. For safety, the TV should be turned off when you are away from home.

ON-SCREEN DISPLAY

## Set Closed Caption

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as **CC** or



**Caption Display:** On/Off will turn the **CC** display on or off.

**Auto** will turn the **CC** display on when Mute/Soft Mute is on.

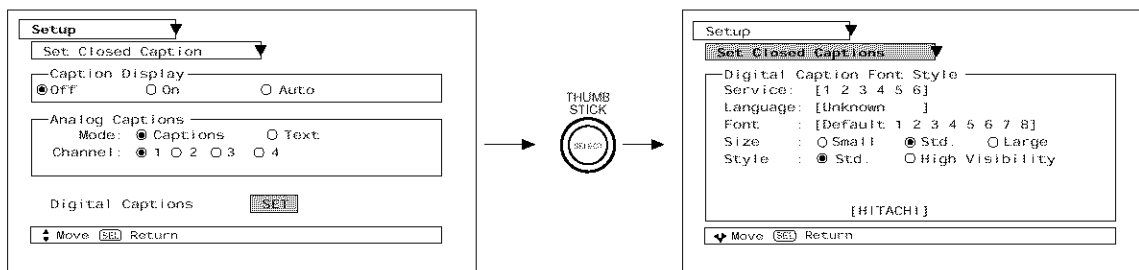
**Caption Mode:** **Captions** is for the program you are viewing.

**Text** is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every **CC** program.

- CHANNEL:**
- 1 is used for the primary language (usually English).
  - 2 is sometimes used for a second language (may vary by region).
  - 3 is sometimes used for a third language (may vary by region).
  - 4 is sometimes used for a fourth language (may vary by region).

Use THUMB STICK ▲, ▼, ◀, ▶ to highlight the function to change then press down on THUMB STICK to select the function. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

**Digital Captions:** This feature is only available in ANT C. Set captions for digital programs. This function will help choose and set available language, font, size and style of digital captions.



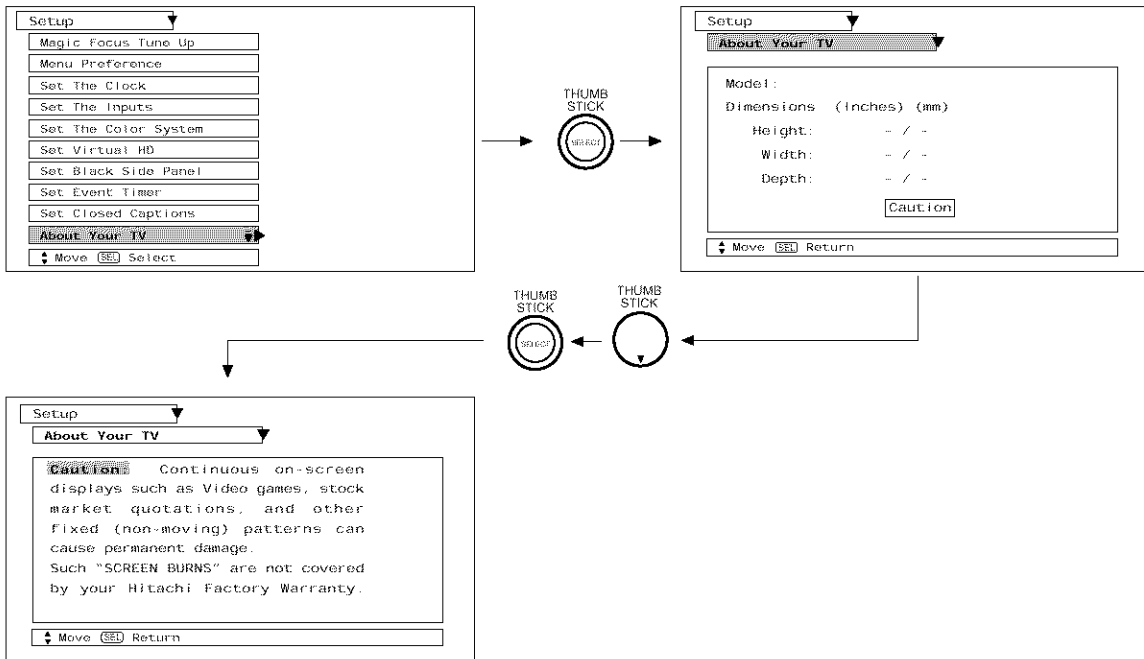
Use THUMB STICK ▲, ▼, ◀, ▶ to highlight desired Digital Captions feature. Press down on THUMBSTICK to select desired feature. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

- NOTES:**
1. Some types of digital closed captions will not work with this TV.
  2. CAPTION DISPLAY will not work when viewing a 480p, 720p, or 1080i input via the COMPONENT: Y-P<sub>B</sub>P<sub>R</sub> inputs.
  3. When PIP Surf is on, Closed Caption will not work.
  4. Digital Captions are sometimes different from original style.
  5. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed Caption is available when Closed Caption icon is highlighted (see page 23).

# SETUP

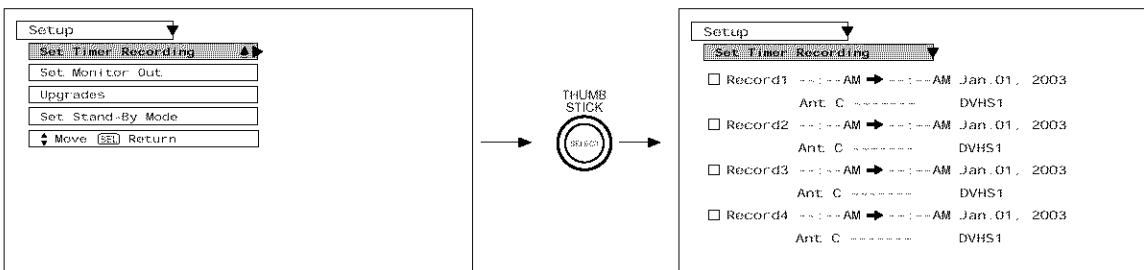
## About Your TV

The TV model name and dimensions will be displayed on the TV screen. The dimensions of each TV model are listed on page 76.



## Set Timer Recording

Select this feature to set and record digital channels from ANT C.



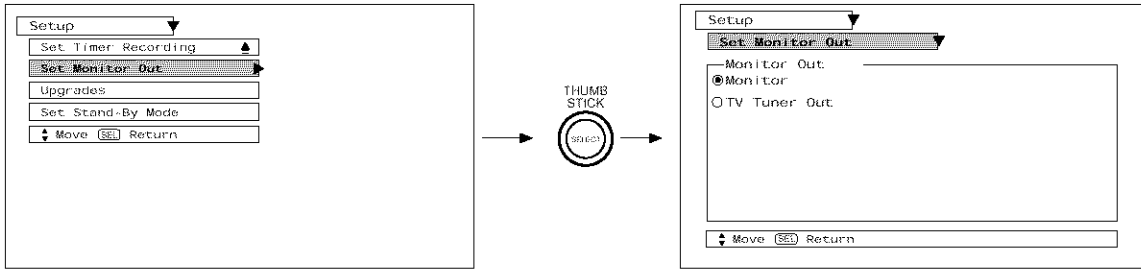
- Use THUMBSTICK ▲, ▼ to highlight Record 1, Record 2, Record 3 and then press THUMBSTICK to select.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select START TIME Hour/Minute.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select START TIME AM/PM.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select FINISH TIME Hour/Minute.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select FINISH TIME AM/PM.
  - Use THUMBSTICK ► to highlight the MONTH.
  - Use THUMBSTICK ▲ to select a MONTH or THUMBSTICK ▼ to select Daily, Weekly - Sunday to Monday. Use THUMBSTICK ◀ to return to MONTH.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select the DAY of the MONTH.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select the YEAR.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select ANT C channel # to be recorded.
  - Use THUMBSTICK ►, ▲, ▼ to highlight and select 1394 Device to be used.
  - Press down on THUMBSTICK to return and highlight Record 1.
- A "√" in the box means it is enabled.

**NOTE:** Set the Time and connect the IEEE1394 devices before using this feature.

ON-SCREEN DISPLAY

## Set Monitor Out

This feature will select the source of the Monitor Output.



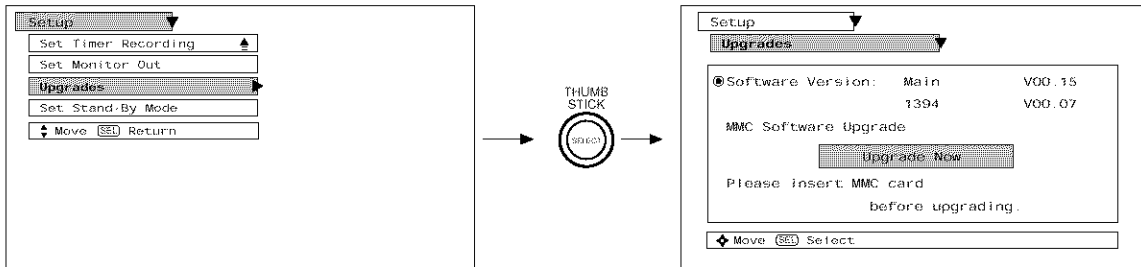
**Monitor-** Select Monitor to output the audio and video signals of the chosen input source (ANT A, ANT B, VID3-VID5) to a VCR or other A/V device. It will also send digital audio and video signals from ANT C - DTV and IEEE1394 devices that are not copy protected.

**TV Tuner Out-** Select TV Tuner Out to output the audio and video signals of the last watched Antenna Source (ANT A, AN T B, ANT C).

Use THUMB STICK ▲, ▼ to highlight the function to change then press down on THUMB STICK to select the function. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

## Upgrades

This function only works in ANT C (Digital Signal). It shows software information and easy upgrade procedure. This function allows the TV software to be upgraded by using a flash card (MMC Card). If a future software upgrade is required for your TV, Hitachi will notify and provide you with a flash card. In order to receive written notification and the flash card, please complete and return the warranty card.

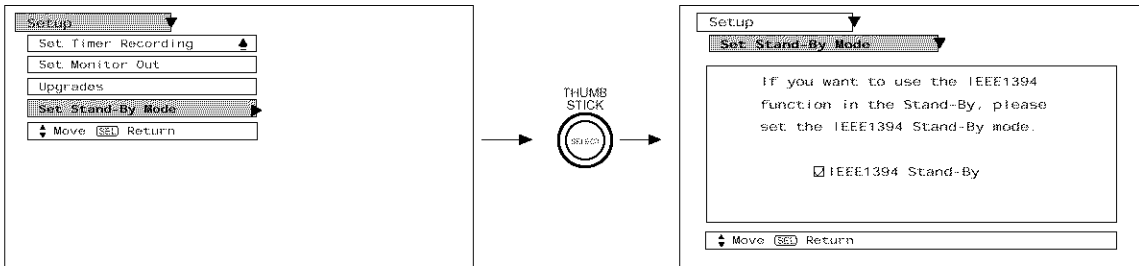


Insert MMC card, then press THUMB STICK ▲, ▼ to highlight "Upgrade Now". Press down on THUMBSTICK to select and start upgrading.

**NOTE:** Any power interruption during the upgrade process will cancel the upgrade. When this happens, repeat the upgrade procedure.

## Set Stand-By Mode

This function sets the IEEE1394 in Stand-By Mode.





# CARE OF YOUR HITACHI TELEVISION AND YOUR REMOTE CONTROL



## DO

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Place your Television away from extreme heat, humidity, and extremely dusty places.

Remove the plug from the wall outlet if your Television will not be used for a long period of time, for instances, when you go on vacation.

## DO NOT

Do not clean your screen or cabinet with strong cleaners, polishes or a chemically treated cloth.

Do not place rubber or vinyl products or cellophane tape on your Television.

Do not touch the screen too often.

Do not subject the remote control to shocks such as dropping it on the floor, etc. Physical damage to the precision parts may result.

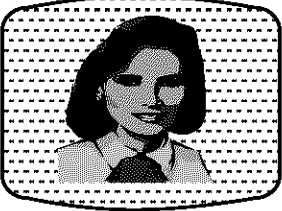



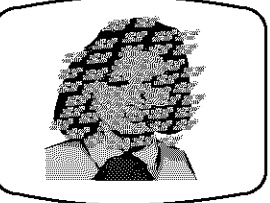
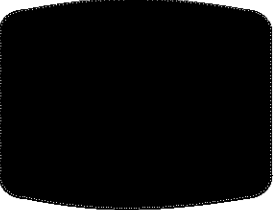
Avoid placing the remote control or the Simple Remote Control in a high humidity place or getting it wet. Do not leave it on or near a heater. Excessive heat or moisture may cause the unit to cease operation.

When the batteries run down, remote control operation will become erratic or possibly stop altogether. Replace the old batteries with two new "AA" size batteries as soon as possible to preserve the remote control precodes that were set for the devices. Pressing a remote control button with a "DEAD" battery might erase all precodes in memory. Do not use an old battery with a new battery.

Exposure of the viewing screen to prolonged direct sunlight or heat may cause the screen to permanently warp, resulting in a distorted picture.



# RECEPTION PROBLEMS

	<ul style="list-style-type: none"><li>• <b>IGNITION NOISE:</b> Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.</li></ul>
	<ul style="list-style-type: none"><li>• <b>GHOSTS:</b> Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.</li></ul>
	<ul style="list-style-type: none"><li>• <b>SNOW:</b> If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.</li></ul>
	<ul style="list-style-type: none"><li>• <b>RADIO FREQUENCY INTERFERENCE:</b> The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.</li></ul>
	<ul style="list-style-type: none"><li>• <b>BLOCK NOISE (Ant C Input):</b> Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and weak signals.</li></ul>
	<ul style="list-style-type: none"><li>• <b>BLACK SCREEN (ANT C Input):</b> When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.</li></ul>

**NOTE:** The TV set can generate sound distortion in external devices such as a radio. Please separate radio equipment from the TV set to a considerable distance.

# USEFUL INFO



SYMPTOMS	CHECK THESE ITEMS AND TRY THESE ADJUSTMENTS											
	Be sure external connection is correct	Be sure power cord is plugged in	Be sure TV is switched "ON"	Try another channel (station trouble)	Check antenna connections (back of TV)	Check antenna for broken lead-in wire	Check for local interference	Adjust Contrast control	Adjust Brightness control	Adjust Color control	Adjust Tint control	Adjust Volume control
No Picture, no sound	●	●	●	●	●	●	●					
Sound OK, picture poor	●			●	●	●	●	●	●			
Picture OK, sound poor	●			●	●	●	●	●				●
Picture blurred	●			●	●	●	●	●				
Lines or streaks in picture				●	●	●	●	●				
Poor reception on some channels				●	●	●	●	●				
Picture rolls vertically				●				●				
No color	●			●	●	●	●			●		
Poor color	●			●	●	●	●			●	●	

HITACHI Projection Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.


IF YOUR TELEVISION SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

1. Press the power switch (ON/OFF switch) once.
2. If there is still no power, wait 30 seconds and press the power switch again.
3. If there is still no power, unplug the power cord from the wall. Wait 30 seconds and plug the power cord back in. Press the power switch again.

This protective technology should provide for years of lasting entertainment from your HITACHI Projection Television.



## Features:

- Superfine Picture Quality  
1280 Line Horizontal Resolution
  - Remote (Controls many VCR brands, cable boxes, satellite boxes, and other audio equipment.)
  - New Easy-to-Use (3-Language) On-Screen Menu
  - Full Set of Input Jacks, including S-VIDEO
  - COMPONENT VIDEO: Y-P<sub>B</sub>/P<sub>R</sub>
  - Velocity Modulation
  - Six Aspect Modes
  - Closed Caption Decoder
  - 3-Tuner Picture in Picture
  - Magic Focus (Auto Digital Convergence and Manual Adjustment)
  - 3 Antenna Inputs (2-NTSC; 1-DTV)
  - Video Input Sensor
  - 2 IEEE1394/5C Interface
  - Digital Audio Output (Dolby® Digital and PCM)
  - 3 Dimensional Y/C Comb Filter
  - Full 1080i HDTV capable.
  - DVI with HDCP (High bandwidth Digital Content Protection V1.0 compatible).
  - PHOTO MC (View digital photos from 6 types of media cards).
  - **BBE** Technology.
  - **SRS** Technology.
  - **DOLBY DIGITAL** Technology.
- \*SRS and the  symbol are registered trademarks of SRS Labs, Inc. SRS technology is incorporated under license from SRS Labs, Inc.
- \*Licensed by BBE Sound, Inc. under USP4638258 and 4482866. BBE and BBE symbol are registered trademarks of BBE Sound, Inc. Manufactured under license from BBE Sound, Inc.
- \*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

## Inputs:

- Power Input . . . . . AC 120V, 60Hz
- Stand-by Power . . . . . 0.4W
- Power Consumption  
- Refer to rear panel at the back of the T.V.
- Antenna input impedance . . . . . 75 Ohm
- Channel coverage . . . . . 181ch.  
VHF-Band . . . . . 2 ~ 13  
UHF-Band . . . . . 14 ~ 69  
CATV Mid Band . . . . . A-5 ~ A-1  
. . . . . A-I  
Super Band . . . . . J-W  
Hyper Band . . . . . W+1 - W+28  
Ultra Band . . . . . W+29 - W+84
- Video . . . . . 1.0Vp-p, 75 Ohm
- S-Video  
Luminance (Y) . . . . . 1.0Vp-p, 75 Ohm  
Chrominance (C) . . . . . 0.286Vp-p, 75 Ohm
- Component Video  
Luminance (Y) . . . . . 1.0Vp-p, 75 Ohm  
Chrominance (P<sub>B</sub>/P<sub>R</sub>) . . . . . 0.7Vp-p, 75 Ohm
- Audio input Impedance . . . . . 47k Ohm
- Average input level . . . . . 470mVrms
- DVI - HDTV . . . . . DVI 25pin
- IEEE1394 . . . . . 4 pin

## Outputs:

- Video . . . . . 1.0Vp-p, 75 Ohm
- Audio (Fixed) . . . . . 470mVrms, 1k Ohm
- S-Video  
Luminance (Y) . . . . . 1.0Vp-p, 75 Ohm  
Chrominance (C) . . . . . 0.286Vp-p, 75 Ohm
- Optical Out (Digital Audio) . . . . .  
. . . . . 1 optical connector

## Dimensions:

	51S700	57S700	65S700
• Height (in.)	50 1/4	54 3/16	59 7/8
(mm)	1,275.0	1,376.2	1,520.7
• Width (in.)	48 3/4	54	61
(mm)	1,239.0	1,372.0	1,549.0
• Depth (in.)	25 1/16	25 1/2	28 3/16
(mm)	636.0	647.9	716.0
• Weight (lbs.)	238	265	324

**NOTE:** Due to improvements, specifications in this operating guide are subject to change without notice.



# HITACHI

*Service  
hotline*

To locate an authorized  
HITACHI service facility  
in the continental U.S.A.  
and Canada,

**DIAL TOLL FREE**

7 days a week, 24 hours a day

**800 HITACHI**

**(1-800-448-2244)**

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Hitachi has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service hotline operator will direct you to the Hitachi Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility, and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

***Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:***

**Hitachi America, LTD.  
Home Electronics Division  
900 Hitachi Way  
Chula Vista, CA 91914-3556**



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**Hitachi Canada, LTD.  
Digital Media Division**

---

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1-800-HITACHI  
(1-800-448-2244)**

**Monday - Friday EST 9:00am - 7:00pm  
Saturday EST 9:00am - 5:00pm**

*Look for your French Manual on the outside of the box.  
If the manual is missing, call*

**1-800-HITACHI  
(1-800-448-2244)**

*for a copy.*

---

*Pour de plus amples renseignements sur le service durant la période couverte par la garantie, sur le fonctionnement ou pour de l'assistance technique communiquez avec:*

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Samedi L'EST 9:00am - 5:00pm**

*La version français de votre manual se trouve a l'exterieur de la boîte.  
Si le manuel est manquant, coposez le*

**1-800-HITACHI  
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*pour obtenir votre copie.*

**HITACHI CANADA, LTD.  
6740 Campobello Road  
Mississauga, ON L5N 2L8**



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