

PROJECTION COLOR TV

50UX57B 60UX57B

OPERATING GUIDE

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Follow all warnings and instructions marked on this projection television.



WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN



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.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PROJECTION TELEVISION TO RAIN OR MOISTURE.

NOTE:

• There are no user serviceable parts inside the television.

- Model and serial numbers are indicated on back side of the television.
 - This television is not intended for use in a computer room.

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 TV.

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 projection television is designed to operate on 120 volts 60Hz, AC current. Insert 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, (**CC** or **D**), in accordance with paragraph 15.119 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 shop.



IMPORTANT SAFEGUARDS

CAUTION:

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

FOR YOUR PERSONAL SAFETY

- This television set is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other.) This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- When the power cord or plug is damaged or frayed, unplug the television from the wall outlet and refer servicing to qualified service personnel.
- Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 4. Do not allow anything to rest on or roll over the power cord, and do not place the television where the power cord is subject to traffic or abuse. This may result in a shock or fire hazard.



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

service personnel.

5. Do not attempt to service the

television yourself as opening or

removing covers may expose you

to dangerous voltage or other

hazards. Refer all servicing to

qualified service personnel.

6. Never push objects of any kind into

the television's cabinet slots as they

may touch dangerous voltage points

or short out parts that could result in

a fire or electric shock. Never spill

liquid of any kind on the television.

If the television has been dropped or

the cabinet has been damaged,

unplug the television from the wall

outlet and refer servicing to qualified

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



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

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI PROJECTION TELEVISION

- 11-1. Do not place the television on an unstable cart, stand, or table. The television may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 11-2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.







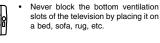
- PROTECTION AND LOCATION OF YOUR TELEVISION
- 12. Do not use the television near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- Never expose the television to rain or water. If the set has been exposed to rain or water, unplug television from wall outlet and refer to qualified service personnel.
- 13. Choose a place where light (artificial or sunlight) does not shine directly on the screen.



- Avoid dusty places. Accumulated dust inside the chassis may cause failure of the television when high humidity persists.
- 15. The television has slots or openings in the cabinet for ventilation purposes which provide reliable operation of the receiver and protect the television from overheating. These openings must not be blocked or covered.
- Never cover the slots or openings with cloth or other material.

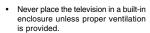








Never place the television near of over a radiator or heat register.







PROTECTION AND LOCATION OF YOUR TELEVISION

- 16-1. If an outside antenna is connected to the television, 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 Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit connection to grounding electrode, and requirements for the grounding electrode.
- 16-2. Note to CATV system installer: (Only for television with CATV reception). This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical

OPERATION OF YOUR TELEVISION

This television should be operat-19. ed only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your dealer or local power company. For televisions designed to operate from battery power, refer to the operating instructions.

IF THE TELEVISION DOES NOT OPERATE PROPERLY

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

FOR SERVICING AND MODIFICATION

- 25. Do not use attachments not recommended by the television manufacturer as they may cause hazards.
- 26. If replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- It is normal for some televisions to 24. make occasional snapping popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician
- 27. Upon completion of any service or repairs to the television, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.



PICTURE CAUTIONS **Picture Burn Prevention**

- 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 projection television receivers. Such "PATTERN BURNS" constitute misuse and are NOT COVERED by your HITACHI Factory Warranty.
- When using Picture-in-Picture function, the sub-picture should not be left permanently in one corner of the screen or a "PATTERN BURN" may develop over a long period of time.

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.

17. An outside antenna system should not be located in the vicinity of overhead power lines or other electrical lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. DISCHARGE UNIT NEC SECTION 810-20)

ANTENNA LEAD IN

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUNDING CONDUCTORS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250 PART H)

GROUND CLAMP

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL

If the television does not operate

normally by following the operating

instructions, unplug the television

from the wall outlet and refer

controls that are covered in the

instructions as improper adjustment

of other controls may result in

damage and will often require extensive work by a qualified service technician to restore the television to normal operation.

Whenever the television is

damaged or fails, or if there is a

distinct change in performance

that indicates a need for service,

unplug the television and have it

checked by a qualified service

servicing to

personnel.

technician.

qualified

Adjust only those

service

NEC NATIONAL ELECTRICAL CODE

CODE INSTRUCTIONS.

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23.



18. For added protection for the television during a lightning storm, or when it is unused for long periods of time, unplug it from the wall outlet and disconnect antenna. This will prevent damage due to lightning and power-line surges.



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

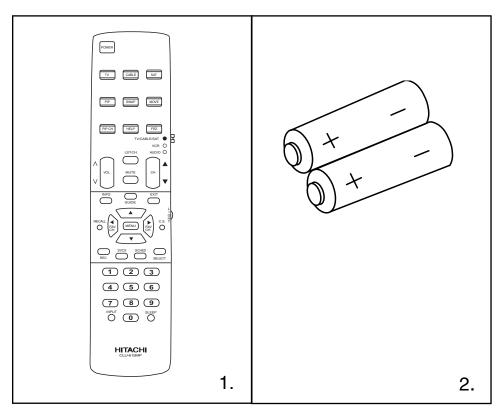




ACCESSORIES



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

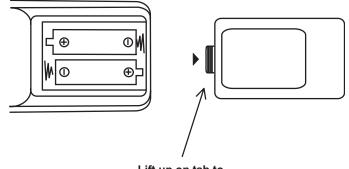


- 1. Remote Control Unit CLU-615MP (Part No. HL00715).
- 2. Two "AA" size, 1.5V batteries (For Remote Control Unit).

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.

BOTTOM VIEW



Lift up on tab to remove back cover.



ANTENNA

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

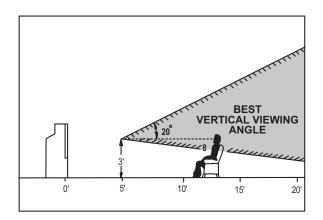
VIEWING

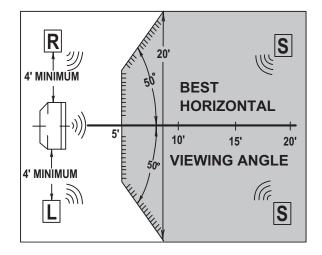
The major benefit of the HITACHI Projection Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

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.





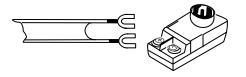


CAUTION: Magnetic fields, such as those of external speakers, may cause the picture to distort if they are placed too close to the television. Move the magnetic field source away from the television until there is no picture distortion.

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.



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



"F" Type 75-Ohm Coaxial Antenna Connector

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



Phono Connector

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



S-Video (Super Video) Connector

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

ANTENNA CONNECTIONS TO REAR JACK PANEL

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

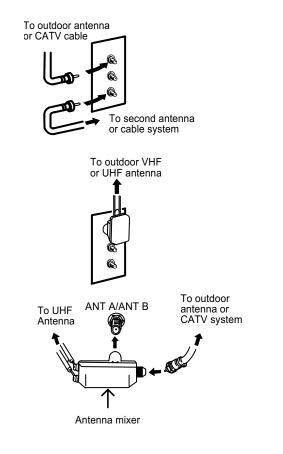
When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna or cable TV system, connect the coaxial cable to the ANT B terminal.

VHF (300-Ohm) antenna/UHF antenna

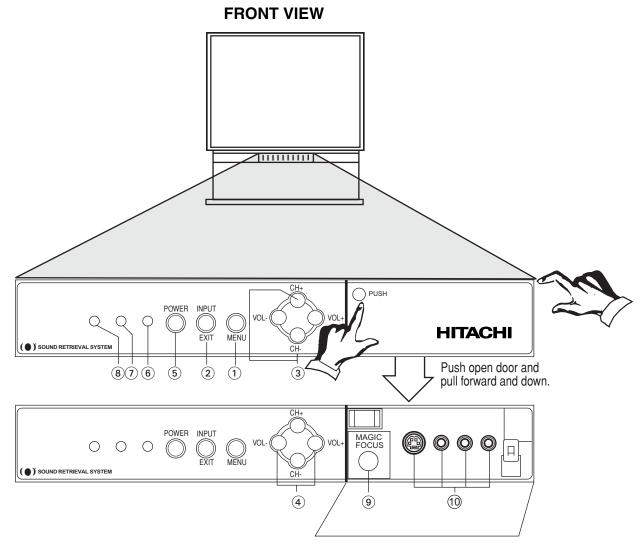
When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.

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.







① MENU button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote.

② INPUT/EXIT button

Press this button to select the current antenna source, VIDEO: 1, 2, 3, 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.

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 ($\mathbf{\nabla}$) and up ($\mathbf{\Delta}$) 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 (\triangleleft) and right (\triangleright) buttons when in MENU mode.

5 POWER button

Press this button to turn the TV on or off.

NOTE: Your HITACHI Projection TV will appear to be turned OFF if there is no video input when VIDEO: 1, 2, or 3 is selected. Check the Power Light to make sure the TV is turned off when not in use.

To see an auto-demonstration of the on-screen displays with HELP text displayed, press and hold the POWER button on the TV set for approximately five seconds. Press the POWER button on the TV again to end the auto-demonstration.



6 POWER light

You will see a red light when the TV is turned on.

(7) AI (Artificial Intelligence) sensor

The Artificial Intelligence sensor will make automatic picture adjustments depending on the amount of light in the room to give the best picture. (See page 50.)

8 REMOTE CONTROL sensor

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

9 MAGIC FOCUS

Use this button to adjust your picture quality to optimum performance. (See page 40.)

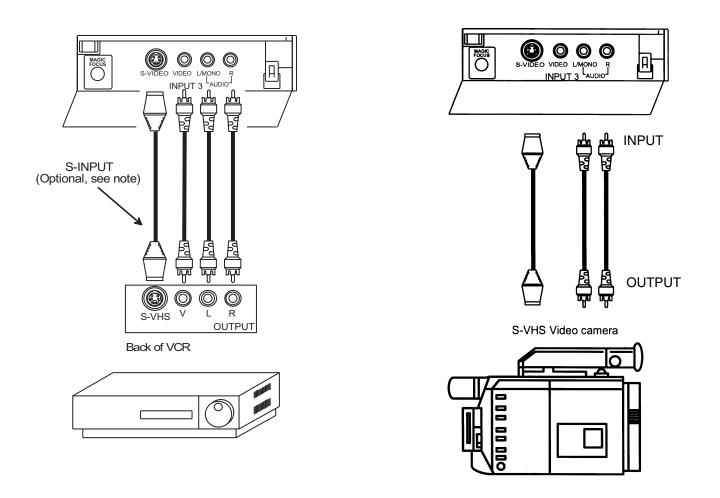
(10) FRONT INPUT JACKS (for VIDEO: 3)

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 button until VIDEO: 3 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left channel jack.



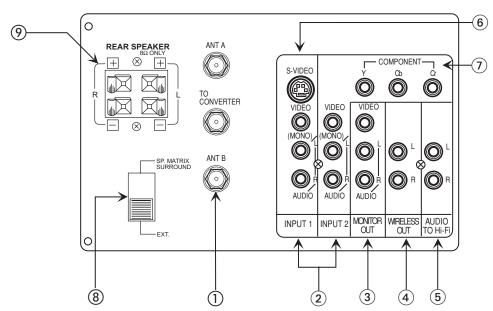
FRONT PANEL JACKS AND CONNECTIONS

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





) Antenna Input/Output

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture. (ANT B cannot be displayed as a sub-picture.) The antenna output labeled "TO CONVERTER" allows the ANT A connection to pass directly to a different source such as a cable box, when ANT B is displayed as a main picture.

(2) Audio/Video Inputs 1, 2

The INPUT button will step through each video source and antenna source input each time it is 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 channel jack.)

NOTE: You may use VIDEO, S-VIDEO, or COMPONENT: Y-C_bC_r inputs to connect to Input 2, but note that only one of these may be used at a time.

(3) Monitor Out

These jacks provide fixed audio and video signals which are used for recording.

(4) Wireless Out

These jacks provide variable audio output to a set of wireless speakers. They can also be used for another stereo system amplifier. With this connection, the audio can be controlled by the television's main volume and also by an independent volume feature found in the THEATER-WIRELESS SOUND menu.

(5) Audio to HI-FI

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.

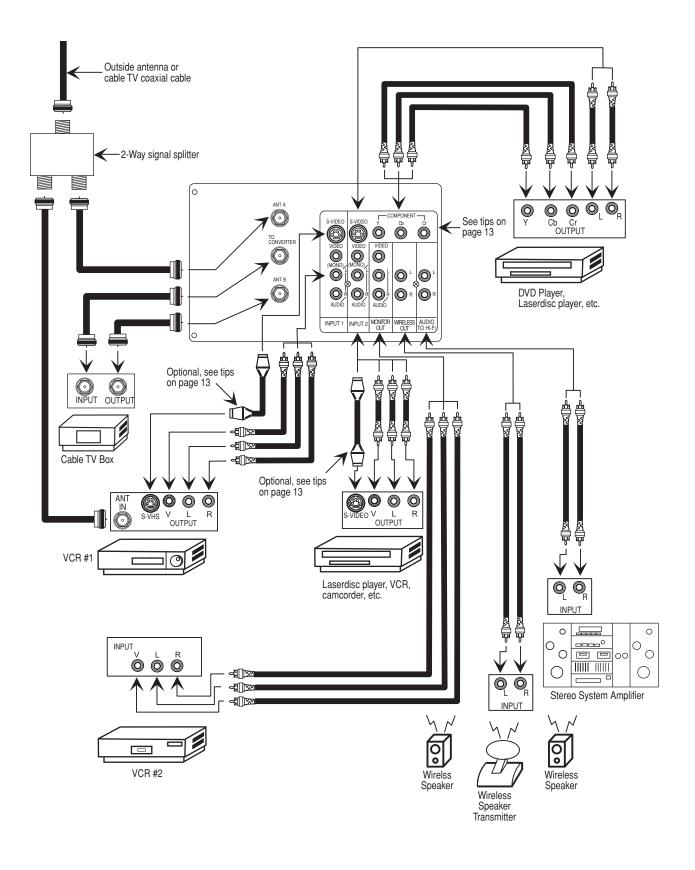
(6) S-Video Inputs 1 and 2

Inputs 1 and 2 provide S-Video (Super Video) jacks for connecting equipment with S-Video output capability.

(7) Component: Y-C_bC_r Input 2

Input 2 provides Y-C_bC_r jacks for connecting equipment with this capability, such as a DVD player.

NOTE:	DO NOT connect standard VIDEO or S-VIDEO to Input 2 when using Y-C $_{ m b}$ C $_{ m r}$ input.
	When using the Y-CbC _r input jacks, connect your components audio output to the TV's Input 2 Left and Right Audio input jacks.
	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 Cb input and the components R-Y output to the TV's Cr input.
	It may be nessary to adjust TINT or turn AUTO COLOR-ON to obtain optimum picture quality when using the Y-C _b C _r inputs. (See pages 49 and 50)
	To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-CbCr jacks.
	When using the Y-C _h C _r jacks, Input 2 will be viewed as a blank PIP sub-picture. (See page 24.)



Typical full feature setup. Follow connections that pertain to your personal entertainment system.

TIPS ON REAR PANEL CONNECTIONS

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: 1 in the example on page 12.) Refer to your VCR operating guide for more information on line input-output connections.

You may use VIDEO, S-VIDEO, or COMPONENT: Y-CbCr inputs to connect to Input 2, but note that only one of these may be used at a time.

Connect only 1 component to each input jack.

COMPONENT: Y-C_bC_r connections are provided for high performance components, such as DVD players. Use these connections in place of the standard video connection if your device has this feature.

When using the Y-CbCr input jacks, connect your components audio output to the TV's Input 2 Left and Right Audio input jacks.

Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y ouput to the TV's Cb input and the components R-Y output to the TV's Cr input.

It may be necessary to adjust TINT or turn AUTO COLOR-ON to obtain optimum picture quality when using the Y-CbCr inputs. (See pages 49 and 50.)

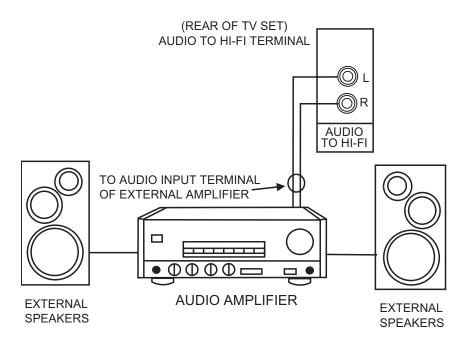
To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-CbCr jacks.

When using the Y-C_bC_r jacks, Input 2 will be viewed as a blank PIP sub-picture. (See page 24.)



CONNECTING EXTERNAL AUDIO AMPLIFIER

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



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

CONNECTING EXTERNAL VIDEO SOURCES

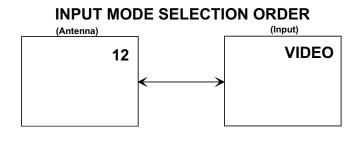


The exact arrangement you use to connect the VCR, camcorder, laserdisc player, and DVD player to your TV set is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

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

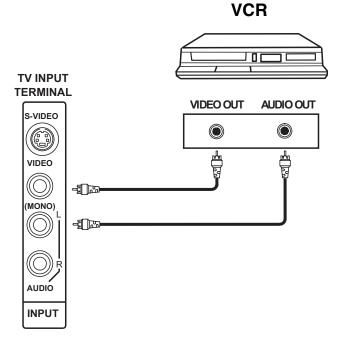
The input mode is changed every time the INPUT button is pressed as shown below. Connect an external source to the INPUT terminal, then press the INPUT button as necessary to view the input source. (See page 23.)



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

CONNECTING A MONAURAL AUDIO VCR OR LASERDISC PLAYER

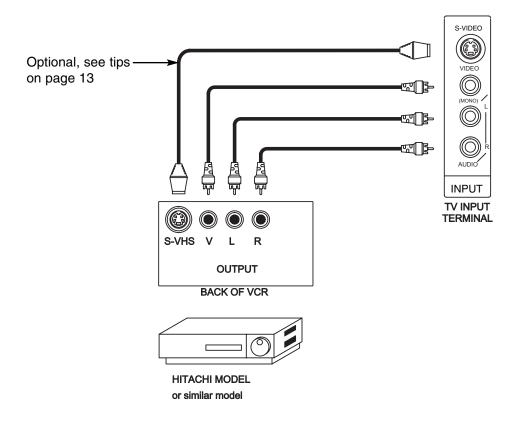
- 1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack on the TV set below.
- 2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- 3. Press the INPUT button to view the program from the VCR or the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





CONNECTING A STEREO VCR OR STEREO LASERDISC PLAYER

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



NOTE: Completely insert the connection cord plugs when connecting to rear panel jacks. The picture that is played back will be abnormal if the connection is loose.

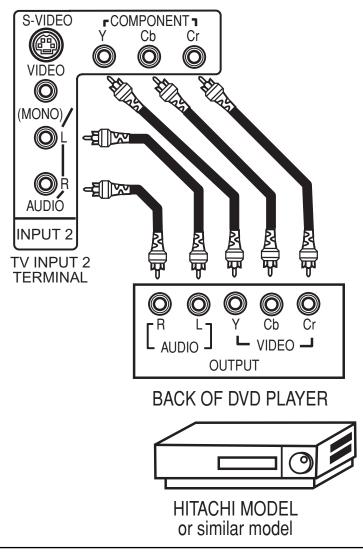
If you have an S-VHS VCR, use the S-INPUT cable in place of the standard video cable.

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: 1 in example on page 12.) Refer to your VCR operating guide for more information on line input-output connections.



CONNECTING A STEREO LASERDISC PLAYER OR DVD PLAYER TO INPUT 2.

- 1. Connect the cable from the Y OUT of the Laserdisc or the DVD player to the INPUT 2 (Y) jack as shown on the TV set below.
- 2. Connect the cable from the Cb OUT or B-Y OUT of the Laserdisc or the DVD player to the INPUT 2 (Cb) jack, as shown on the TV set below.
- 3. Connect the cable from the Cr OUT or R-Y OUT of the Laserdisc or the DVD player to the INPUT 2 (Cr) jack, as shown on the TV set below.
- 4. Connect the cable from the AUDIO OUT R of the Laserdisc or DVD player to the INPUT 2 (AUDIO/R) jack.
- 5. Connect the cable from the AUDIO OUT L of the Laserdisc or DVD player to the INPUT 2 (AUDIO/L) jack.
- 6. Press the INPUT button until VIDEO:2 appears, to view the program from the Laserdisc or DVD player. The mode VIDEO:2 disappears automatically after approximately eight seconds.
- 7. Press the INPUT button to return to the previous channel.



NOTE: Completely insert the connection cord plugs when connecting to rear panel jacks. The picture that is played back will be abnormal if the connection is loose.

See page 13 for tips on REAR PANEL CONNECTIONS.



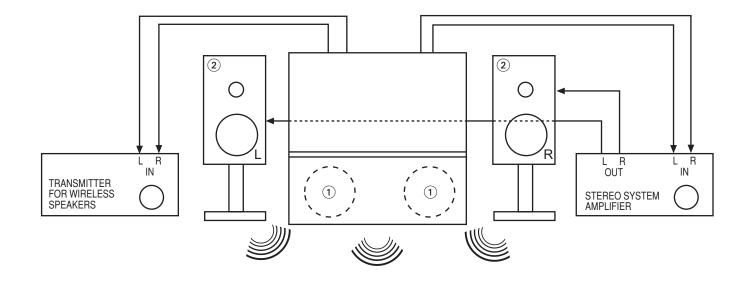
AUDIO SYSTEM SETUP

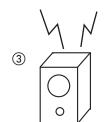
Match the numbers below to the diagrams for speaker placement. (See page 54 for SRS functions.)

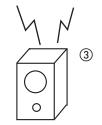
(1) The television's internal speakers.

(2) These speakers are connected to a separate audio amplifier. Use the AUDIO TO HI-FI output on the TV.

(3) These speakers are controlled by a wireless speaker transmitter. Use the WIRELESS OUT output on the TV.







SRS ()	REQUIRED	OPTIONAL	EFFECT
FEATURE	CONNECTION	CONNECTION	
			Exciting and realistic 3D sound experience
ON	1	23	from just two speakers.
OFF	1	23	Receive mono and stereo sound.

THE GENIUS REMOTE CONTROL (CLU-615MP)

In addition to controlling all the functions on your HITACHI Projection TV, the remote control is designed to operate different types of VCRs, CATV (cable TV)/satellite converters, and audio equipment with one touch. Basic operation keys are grouped together in one area. All other controls are separated from them and arranged in MULTI-PAGE sections, with a display that can be switched to cover any of the three pages. Functions are arranged and properly categorized into windows, making operation simple when multiple functions are to be controlled.

To operate your TV, slide the MULTI-PAGE select switch on the side of the remote to TV/CABLE/SAT mode. Press the TV button and the remote will now control your television.

To operate your cable box, slide the MULTI-PAGE select switch on the side of the remote to TV/CABLE/SAT mode. Press the CABLE button and the remote will now control your cable box. (See page 28 for instructions on how to program the remote to control your cable box.)

To operate your satellite box, slide the MULTI-PAGE select switch on the side of the remote to TV/CABLE/SAT mode. Press the SAT button and the remote will now control your satellite box. (See page 28 for instructions on how to program the remote to control your satellite box.)

To operate your VCR, slide the MULTI-PAGE select switch on the side of the remote to VCR mode. The remote will now control your VCR. (See page 27 for instructions on how to program the remote to control your VCR.)

To operate your audio equipment, slide the MULTI-PAGE select switch on the side of the remote to AUDIO mode. Press the button which corresponds to the component you would like to control (AMP, CD, TAPE). The remote will now control your audio equipment. (See page 29 for instructions on how to program the remote to control your audio equipment.)

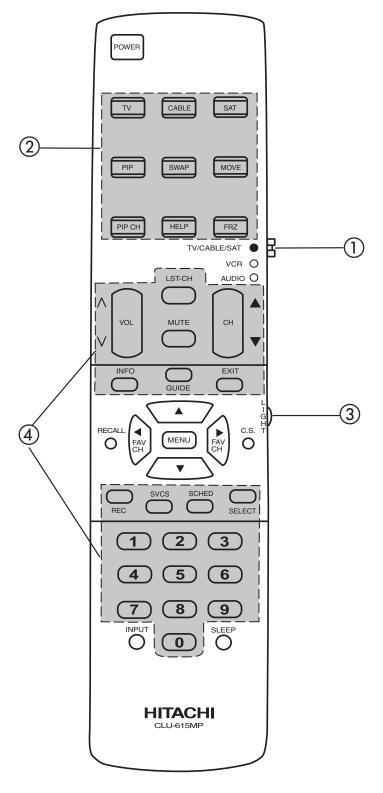
 MULTI-PAGE select switch This selects the button layout of the multi-page section of the remote control.

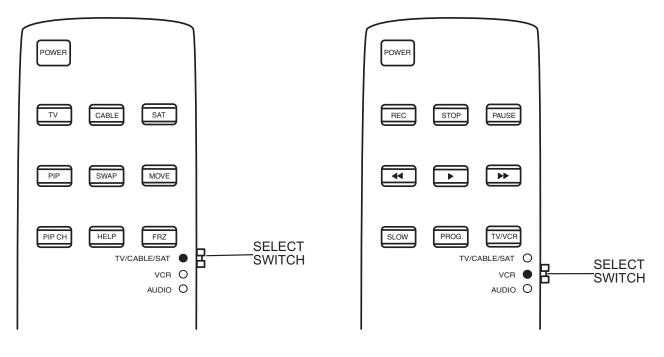
(2) MULTI-PAGE buttons

These buttons change functions as shown on page 20.

(3) LIGHT button

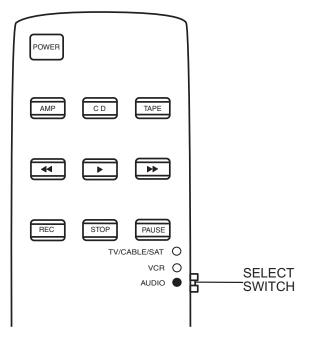
When you are in a dark room, press this button on the side of the remote to light up the buttons shown in ④. The light will stay on for about eight seconds if the light button is not pressed again. These buttons will not appear to light if the room is too bright.





When TV/CABLE/SAT is set.

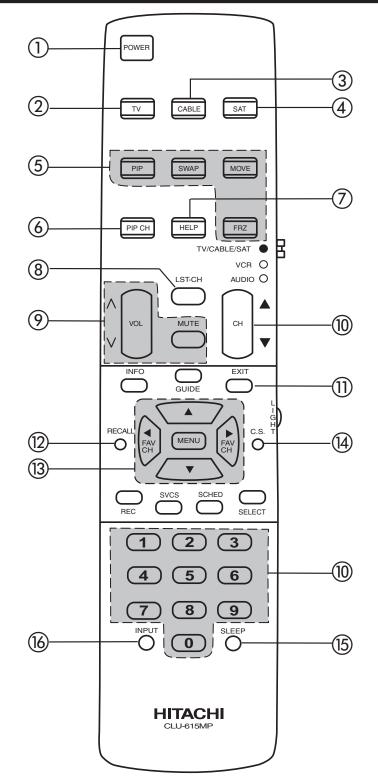
When VCR is set.



When AUDIO is set.

HOW TO USE THE GENIUS REMOTE TO CONTROL YOUR TV





(1) POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 19 for instructions on how to set the remote control to TV mode.) If a Special Event Reminder is set, it will be displayed when the TV is first turned on. (See page 56.)

2 TV button

Press this button to allow the remote to control your TV.

(3) CABLE button

Press this button to allow the remote to control your cable box. (See page 28.)

(4) SAT button

Press this button to allow the remote to control your satellite box. (See page 28.)



HOW TO USE THE GENIUS REMOTE TO CONTROL YOUR TV

5 PICTURE-IN-PICTURE buttons

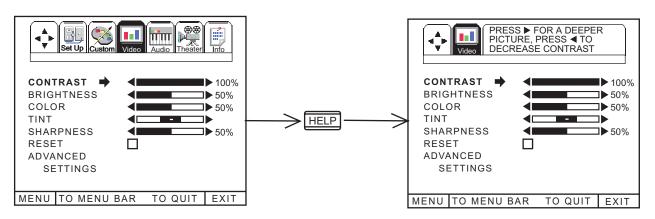
See separate section on page 24 for a description.

6 PIP CH button

Use the PIP CH button to select between main picture and sub-picture tuning. The channel number which is green indicates which channel is being controlled.

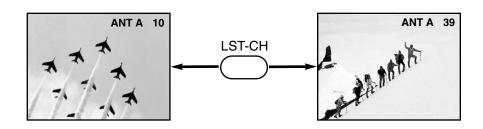
(7) HELP button

Press this button when a menu is displayed to view HELP text, which gives a description of the displayed menu. The HELP text will be displayed every time a MENU is displayed, until this button is pressed again or the AUTO HELP FUNCTION is set to OFF. (See page 58.)



8 LAST CHANNEL (LST-CH) button

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



9 VOLUME, MUTE buttons

Press the VOLUME up (Λ) or down (\vee) 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 (Λ) button.



(10) CHANNEL SELECTOR buttons

CHANNEL SELECTOR buttons are used to set Family Favorites, Channel Memory, etc.

Enter two or three numbers to select channels. Enter "0" first for channels 1 to 9. For channels 100 and above, press the "1" button, wait until another dash appears 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 (\blacktriangle) or down (∇).

NOTE: The TV may not receive some channels if you are not in the correct SIGNAL SOURCE mode. (See page 35.)

HOW TO USE THE REMOTE TO CONTROL YOUR TV

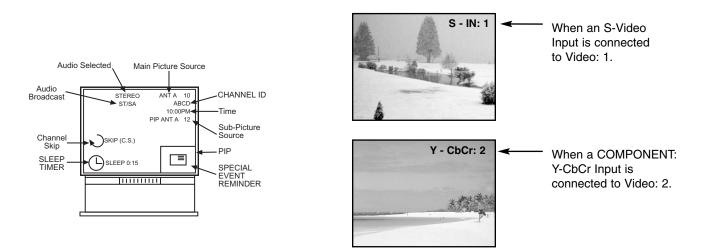


(11) EXIT button

When in MENU mode, this button will exit all On-Screen Displays.

(12) RECALL button

Press this button when no menu is displayed 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, if the Channel Skip (C.S.) function is activated, if SPECIAL EVENT REMINDER is set, and if the SLEEP timer is set.



(13) MENU, CURSOR buttons

All the On-Screen Display features can be set or adjusted by using these buttons. The MENU button will start the On-Screen Display.

The CURSOR buttons will highlight functions or adjust and set different features.

(14) CHANNEL SKIP button

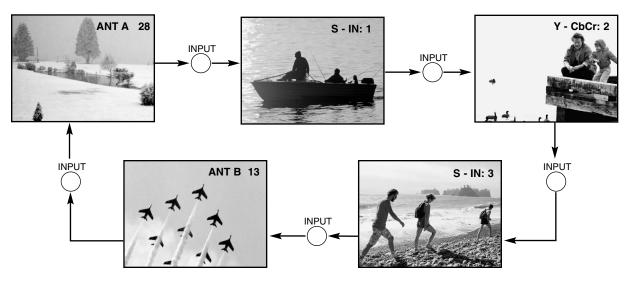
Press this button when no menu is displayed and the TV will tune to the last channel viewed. The user can change stations "SURF" to any station they wish, and after 90 seconds, tune back to the original channel.

(15) SLEEP button

Press this button to display the sleep timer in the lower left corner of the screen. Every subsequent press of this button will add 15 minutes to this timer, up to a maximum of three hours. Once set, use RECALL 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.

(16) INPUT button

The INPUT button will select between both antenna signals and the three sets of video input jacks each time the button is pressed. If the Picture-in-Picture is on, the INPUT button will select between the three sets of video input jacks and both antenna sources when main channel is chosen with the PIP CH button. If the sub-picture is chosen, the INPUT button will select between the three sets of video input jacks and the ANT A antenna source (ANT B source cannot be displayed as a PIP sub-picture and COMPO-NENT: Y-C_bC_r Input 2 source will be displayed as a blank PIP Sub picture.)

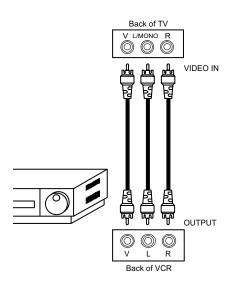


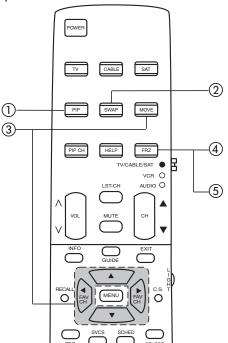


Your HITACHI Projection TV incorporates Dual Tuner technology designed for improved viewing enjoyment. This Dual Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each. The Dual Tuner can operate with only one input (ANT A only) or two inputs (ANT A and ANT B).

ANT A input can be viewed as both the main picture and the sub-picture simultaneously. ANT B and COMPONENT: $Y-C_bC_r$ input 2 sources can only be viewed as a main picture. To select between main picture and PIP sub-picture tuning, press the PIP CH button on the remote. The channel display in green color will move with every press of the PIP CH button. When the top channel display is in green color, channel tuning is for the main picture. When the lower channel display is in green color, channel tuning is for the PIP sub-picture. This method of picture tuning is the same for one antenna input (ANT A only) and two antenna inputs (ANT A and ANT B).

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 source or any of the video inputs.



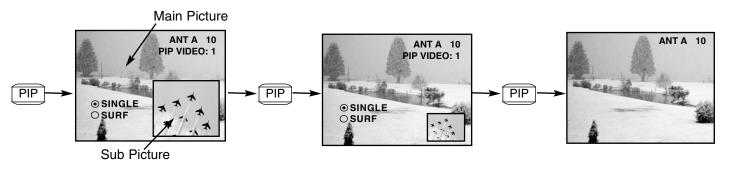


1 PIP button

Press the PIP button and a sub-picture will appear in one of the two different modes (SINGLE or SURF), depending on the last selection of the PIP mode. To change the PIP mode use the CURSOR \blacktriangle or \checkmark buttons and the new selection will appear the next time the PIP function is used.

SINGLE MODE PIP

Press the PIP button and a sub-picture appears in one corner of the screen. Press the button again to reduce the size of the sub-picture. Press the PIP button a third time to remove the sub-picture from the screen. Use the PIP CH button to select between main and sub-picture tuning control (indicated by a green channel display.) Press the INPUT button when sub-picture channel tuning is being controlled, to change between VIDEO: 1, VIDEO: 2, VIDEO: 3, and ANT A antenna source. (ANT B source cannot be viewed as a sub-picture and COMPONENT: Y-C_bC_r Input 2 source will be displayed as a blank sub-picture).



NOTE: Since ANT B source cannot be viewed as a sub-picture, only single PIP mode is possible when ANT B is selected as the main channel.

When the COMPONENT: Y-CbCr Input 2 is selected as PIP, it will appear as a blank sub-picture.



PICTURE-IN-PICTURE CONT.

SURF MODE PIP

This feature will automatically scan all active channel numbers (those set in memory) and display them as PIP sub-pictures, along the right edge of the screen. Press the PIP button a second time to remove the sub-pictures from the screen.



NOTE:

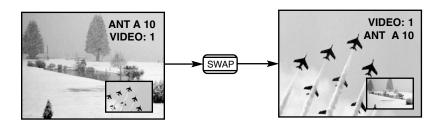
If no buttons are pressed when in SURF mode, auto-scanning will continuously scan.

2. If a channel is tuned during this SURF scanning, sub-pictures will be removed from the screen.

2 SWAP button

1.

If you wish to switch what is being shown on the main picture to the sub-picture, press the SWAP button.

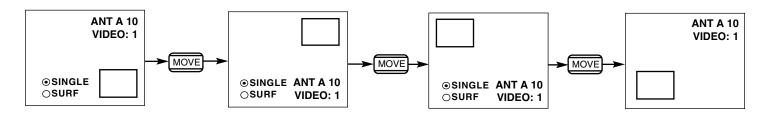


NOTE: 1. The SWAP button will only operate when SINGLE PIP mode is chosen.

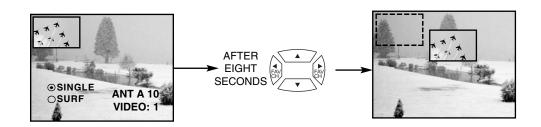
2. The SWAP function will not operate if ANT B input is set as the main channel (ANT B input cannot be displayed as a sub-picture.)

3 MOVE button

To move the sub-picture to another corner, press the MOVE button. The sub-picture moves one step counterclockwise every time the MOVE button is pressed. (Example below illustrates the MOVE operation for initial shipping conditions. If you have customized a PIP position, the MOVE operation may differ slightly from this example.)



It is also possible to customize the PIP position. To do this, wait until the On-Screen Display disappears (about eight seconds) and then use the CURSOR ▲, ▼, ▶, ◄ buttons.





4) FREEZE (FRZ) button (With PIP ON)

If you wish to freeze the sub-picture, press the FRZ 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 FRZ button again.

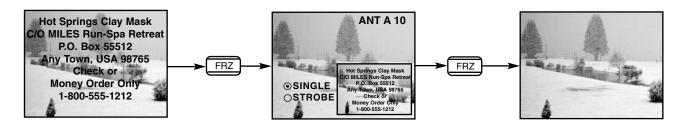
NOTE: The FREEZE function will only operate when SINGLE PIP mode is chosen.

(5) FREEZE (FRZ) button (With PIP OFF)

Press the FRZ button to freeze one or four frames of the picture, depending on the mode previously selected (SINGLE or STROBE). To change FREEZE modes, use cursor ▲ or ▼ to select which type of FREEZE mode you wish to view. The new selection will appear the next time the FREEZE function is used.

SINGLE FREEZE

Press the FRZ button to freeze one frame of the picture you are currently viewing. Press this button again or PIP to return to normal viewing.



STROBE FREEZE

Press the FRZ button to freeze four 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 golf swing.





DN: A pattern burn may develop if the sub-picture is left in the same corner permanently. If the PIP feature is used frequently, occasionally MOVE the sub-picture to a different corner. You may also vary its position using the CURSOR ◄, ▶, ▲, or ▼ buttons.

- **NOTE:** 1. Only sound from the main picture can be heard, unless you choose sub-picture audio from THEATER-WIRELESS SOUND mode and use the WIRELESS OUT outputs on the rear panel. (See page 55.)
 - 2. Each freeze frame is delayed about 0.1 (1/10) second.

3. The FREEZE function will display blank sub-pictures when the COMPONENT: $Y-C_bC_r$ Input 2 source is set as main channel.

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 30.)

- 1. Set the MULTI-PAGE select switch to VCR.
- 2. Turn ON your VCR.
- 3. Aim the remote control at the front of your VCR.
- 4. Hold down the PROG button on the remote, enter the two digit preset code that matches your VCR as shown on page 30. The remote will turn off your VCR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your VCR. If the VCR does not turn off after five seconds, try a different two digit preset code.
- 5. The remote will now control your VCR.

NOTES:

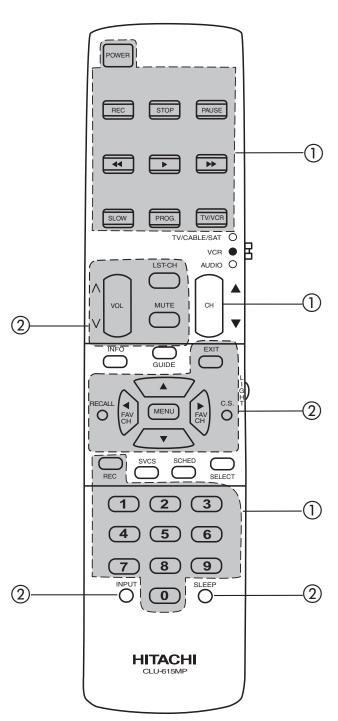
- 1. If your VCR cannot be operated after performing the above procedures, your VCR's code has not been precoded into the remote.
- In the unlikely event that your VCR cannot be operated after performing the above procedures, please consult your VCR operating guide.
- 3. The remote control will remember 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. If your VCR does not have a power function, the remote will issue the CHANNEL UP function.
- 5. The MENU button will act as the VCR MENU button for HITACHI VCRs.
- The LST-CH button will act as your VCR ENTER button if required.
- The SLEEP button will act as your VCR '100' button if required.
- 8. The REC button must be pressed two times to begin VCR recording. This button will also act as the VCR record button when the remote is in CABLE or SAT mode.

1 PRECODED VCR buttons

These buttons transmit the chosen precoded VCR codes.

(2) EXCLUSIVE TV buttons

These buttons are for operating the TV.





USING THE REMOTE TO CONTROL CABLE BOX/SATELLITE FUNCTIONS

Operating the precoded function for your cable/satellite box.

This remote is designed to operate different types of cable boxes and satellite systems. You must first program the remote to match the remote system of your cable/satellite box. (Refer to page 30.)

- 1. Set the MULTI-PAGE select switch to TV/CABLE/SAT.
- 2. Turn ON your cable/satellite box.
- 3. Press the CABLE button on the remote to switch to CABLE mode, or the SAT button to switch to SAT mode.
- 4. Aim the remote control at the front of your cable/satellite box.
- 5. Hold down the CABLE/SAT button on the remote, enter the two digit preset code that matches your cable/satellite box as shown on page 30. The remote will turn off your cable/satellite box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable/satellite box. If the cable/satellite box does not turn off after five seconds, try another two digit preset code.
- 6. The remote will now control your cable/satellite box.

NOTES:

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

1 PRECODED CABLE BOX buttons

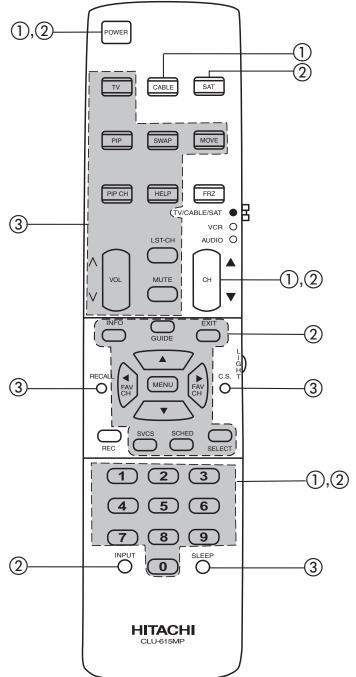
These buttons transmit the chosen precoded cable codes.

(2) PRECODED SATELLITE BOX buttons

These buttons transmit the chosen precoded satellite codes.

-

(3) EXCLUSIVE TV buttons These buttons are for operating the TV.



USING THE REMOTE TO CONTROL AUDIO EQUIPMENT FUNCTIONS



Operating the precoded function for your audio equipment.

This remote is designed to operate certain types of audio equipment. You must first program the remote to match the remote system of your audio equipment. (Refer to page 30.)

- 1. Set the MULTI-PAGE select switch to AUDIO.
- 2. Turn ON the audio component you wish to control with your remote control (AMP, CD, or TAPE).
- 3. Aim the remote control at the front of your audio equipment.
- 4. Hold down the button on the remote which corresponds with the component you wish to control (AMP, CD, or TAPE), enter the two digit preset code that matches your audio component as shown on page 30. 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 after five seconds, try a different two digit preset code.
- 5. The remote will now control your audio component.
- Repeat steps 2-5 until all audio equipment preset codes are programmed into the remote.

NOTES:

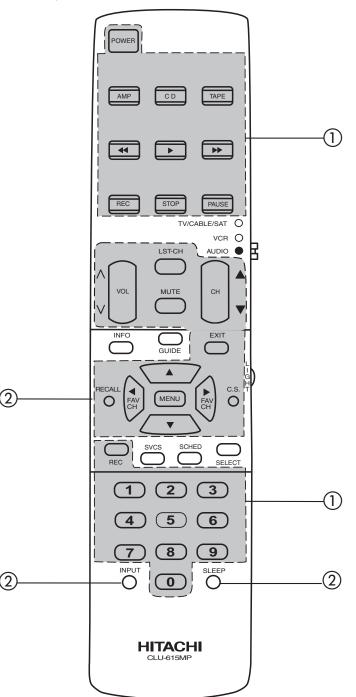
- 1. If your audio equipment cannot be operated after performing the above procedures, your audio component code has not been precoded into the remote.
- 2. In the unlikely event that your audio component cannot be operated after performing the above procedures, please consult your audio components operating 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. If your audio component does not have a power function, the remote will issue another obvious function that the audio component will respond to, such as CD open /close.
- 5. The default for AUDIO mode is AMP.
- 6. If you wish to control your receiver or miscellaneous audio equipment, you must follow the remote programming procedure shown above. You may use only the AMP button to program these codes, but note that this button may not be used for more than one component.
- 7. The LST-CH button will act as your audio component's ENTER button if required.
- 8. The SLEEP button will act as your audio components '100' button if required.

(1) PRECODED AMP, CD, or TAPE buttons

These buttons transmit the chosen precoded audio component codes.

2) EXCLUSIVE TV buttons

These buttons are for operating the TV.





AUDIO, CABLE/SATELLITE, AND VCR CODES

AMPLIFIER BRAND	CODE
Aiwa	.04, 05
Carver	
Clarinette	
Denon	09
Fisher	.07, 10
Hitachi	
JVC	
Kenwood13, 14, Lloyd's	
Magnavox	. 05. 08
Marantz	05, 15
MCS	
Modulaire	08
Onkyo	1/ 10
Panasonic	14, 15
Penney	08
Philips	.00, 05
Pioneer	, 20, 21
Quasar	
Realistic	
Sanyo	
Sharp	
Sony	04
Technics	, 23, 24
Victor	10.00
Yamaha	19,20
Yorx	
CABLE BRAND	CODE
ABC	18, 19,
Antronix	40
Archer	25.40
Belcor	33
Cable Star	33
Citizen	21 45
Comtronics	
Contec	
Dae Ryung	
Eastern	
Electricord	
Focus	
Garrard	12
GC Electronics	.33, 40
Gemini	44, 56
General Instrument	.00, 13
Hamlin	23 24
Hitachi	
Hytex	
Jasco	12
Jerrold00, 08, 13, 38, 53,	
Macom	
Memorex	02
Movie Time	32, 34
NSC	, 34, 39
Oak	
Panasonic	, 10, 49
Paragon	27.31.
	, 45, 47
Pioneer	, 11, 20
Popular Mechanics	57
Pulsar	
Realistic	
Recoton	57
Regal	23, 35
Regency	15
Rembrandt	
Runco Samsung	.11.26
Scientific Atlanta18, 21,	42, 48
Signal	.26, 56

	A				, U
Signature					
SI Marx	•••				
Sprucer					01.49
SL Marx Sprucer				.38.	53. 56
Stargate					26, 56
Stargate Starquest					56
Starsight	• •			· · · ·	58, 59
Sylvania Teleview	••		• • •		19
Teleview	• •	• • •	• • •		20
Texscan Tocom	•••	•••	• • •	07	28 55
Toshiba	••••	· · ·			02
Tusa					56
TV 86					30
Unika					12, 40
United Artists .	• •				37
United Cable .		 0E			
United Cable . Universal Videoway Viewstar	.12	, 25	, sz	, აა, ,	55, 40 51
Viewstar	• •		.16	29	30.41
Zenith				.02.	52.60
Zentek					57
TAPE BRAND Aiwa Hitachi					CODE
AIWA	• •		· · · ·		28, 59
Jerrold		• • •	.47	, 40, 4	+9, DU 60 61
					50, 01
Kenwood					52
Optimus					53
Panasonic					54
Pioneer	• •				53
Scientific Atlan Sony	ta		· <u>: :</u>		62
Sony		• • •	.55	, 56, 5	58, 59
Starcom Wards	• •	• • •	•••		
CD BRAND Adcom Aiwa					CODE
Adcom					26
Aiwa					27
Gaillonnia Audi	υLà	1 D			20
Carver	• •		• • •		27
Denon DKK	• •	• • •	• • •		29
Emerson	•••				00
Fisher					31
Genexxa Hitachi26, JVC Kenwood					32
Hitachi26,	32	, 33	, 34	, 35, 5	36, 37
JVC	• •				38
Kenwood Kroll	•••		• • •	.31, 3	39, 40
Krell Magnavox	• •		• • •		27
Marantz	•••	•••			27.28
MCS					28
Mission					28
NSM					27
Onkyo	• •				41
Optimus			· · ·	.30, 3	32, 42
Panasonic Philips					
Pioneer	•••	•••	• • •		32 42
Proton					
QED					27
QED Quasar					28
RCA					26, 33
Realistic	••				26
Rotel	• •		• • •		27
SAE Sansui	• •	• • •	•••		27
Scott	•••	• • •			27
Sony					30.44
Technics				.28, 4	45, 46
Victor					38
Aiwa Jerrold	• •		• • •		50, 59 60, 61
Scientific Atlan	ta.				
Sony					58, 59
Starcom					60

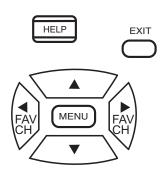
BECEIVER BRAND	CODE
RECEIVER BRAND	04. 05
Carver	.05, 06, 07
Casio	
Clarinette	
Denon	
JVC	
Kenwood13,	14, 16, 17
Lloyd's	
Magnavox	05, 08
MCS	
Modulaire	
Onkyo	18
Optimus	
Panasonic	
Penney	
Pioneer	19.20.21
Quasar	
Realistic	08
Sansui	
Sanyo	
Sharp	04
Technics	22, 23, 24
Victor	12
Wards	07, 19, 20
Yamaha	
Yorx	08
SAT BRAND	CODE
SAT BRAND Hitachi	
RCA	62
Sony	63
VCR BRAND Adventura	CODE
Aiko	
Aiwa	
Akai	.01, 48, 49
American High	22
Asha	
Beaumark	
Bell & Howell	
Brandt	43
Broksonic	
Canon	
Carver	
CCE	
Citizen	08, 23
Colt	30
Craig	23, 30, 45
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Daewoo	16. 38. 50
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Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sansky		2, 03, .00,	 , 04, , 17, .22, 	 35, 18, 23, 	 41, 19, 32, .16, .14,	.23 .23 47 20, 45 .21 .14 45 19
Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sanky Sanky Sanky Sanyo	02	2, 03,	· · · · , 04, 17, .22, · · · · · · · · · ·	· · · · 35, 18, 23, · · · · · · · · · · 18,	 41, 19, 32, .16, .14, .01, 32,	.23 47 20, 45 .21 .14 45 26 45
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Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sanky Sanky Sanyo Scott	02	2, 03 .00, 	 , 04, , 17, .22, .17, , 33,	 35, 18, 23, 18, 34,	 41, 19, 32, .16, .14, .01, 32, 37,	.23 .27 20, 45 .21 .14 19 26 45 42
Radio Shack Radix Randex Realistic Ricoh Runco Samsung Sanky Sansui Sanyo Scott Sears	02	2, 03 .00, 5, 16 .02,	, 04, 17, .22, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	 35, 18, 23, 18, 34, 17,	 41, 19, 32, .16, .14, .01, 32, 37, 18,	.23 .23 47 20, 45 .21 .14 45 19 26 45 42 20,
Radio Shack Radix Randex Realistic Ricoh Runco Samsung Sanky Sansui Sanyo Scott Sears		2, 03,	, 04, 17, .22, , , , 	 35, 18, 23, 18, 18, 34, 17, 23,	 41, 19, 32, .16, .14, 32, 37, 18, 32,	.23 .23 47 20, 45 .21 .14 45 20, 45 20, 46
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Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sansui Sansui Sanyo Scott Sharp Shintom		2, 03,,	, 04, 17, .22, , .22, ,,, ,, ,,, ,,,, ,,,	 35, 18, 23, 18, 34, 17, 23, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 	.23 .23 47 20, 45 .21 .14 45 20, 45 19 26 42 20, 46 .19 .30
Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sansui Sansui Sanyo Scott Sharp Shintom		2, 03,,	, 04, 17, .22, , .22, ,,, ,, ,,, ,,,, ,,,	 35, 18, 23, 18, 34, 17, 23, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 	.23 .23 47 20, 45 .21 .14 45 20, 45 19 26 42 20, 46 .19 .30
Radio Shack Radix Randex RCA Realistic Ricoh Sansung Sansui Sanyo Scott Sharp Shintom Shogun		2, 03, .00, 5, 16, .02,	, 04, 17, .22, ,,, ,,, ,,,, ,,,, ,,,, ,,,	 35, 18, 23, 18, 34, 17, 23, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 	.23 .23 47 20, 45 .21 .14 45 20, 45 19 26 42 20, 46 .19 .30 .45
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Radio Shack Radix Radix RCA Realistic Ricoh Sansug Sansug Sanky Sanyo Sanyo Sott Sharp Sharp Sharp Shogun Sony		2, 03, .00, 5, 16, .02,	, 04, 17, .22, , .22, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,,, ,,,,,,,, ,,	 35, 18, 23, 18, 34, 17, 23, 09,	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21,	.23 47 20, 45 .21 45 19 26 45 20, 45 .21 45 20, 46 .19 .30 .45 .30 22
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Radio Shack Radix Radix RCA Realistic Ricoh Sansug Sansug Sanky Sanyo Sanyo Sott Sharp Sharp Sharp Shogun Sony		2, 03, .00, 5, 16, .02,	, 04, 17, .22, , .22, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,,, ,,,,,,,, ,,	 35, 18, 23, 18, 34, 17, 23, 09,	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21,	.23 47 20, 45 .21 45 19 26 45 20, 45 .21 45 20, 46 .19 .30 .45 .30 22
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Radio Shack Radix Radix RcA Realistic Ricoh Samsung Sanky Sanky Sanyo Sanyo Sanyo Scott Sharp Sharp Sharp Shogun Shogun Sony STS Sylvania Symphonic	18	2, 03, .00, 5, 16, .02, 00,	, 04, , 22, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,, ,,, ,,,, ,,,, ,,	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 29, 	$\begin{array}{c} .23\\ .23\\ 47\\ 20, \\ 451\\ .14\\ 459\\ 26\\ 42\\ 20, \\ 46\\ .19\\ .30\\ 22\\ .02\\ 31\\ .00 \end{array}$
Radio Shack Radix Radix RcA Realistic Ricoh Samsung Sanky Sanky Sanyo Sanyo Sanyo Scott Sharp Sharp Sharp Shogun Shogun Sony STS Sylvania Symphonic	18	2, 03, .00, 5, 16, .02, 00,	, 04, , 22, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,, ,,, ,,,, ,,,, ,,	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 29, 	$\begin{array}{c} .23\\ .23\\ 47\\ 20, \\ 451\\ .14\\ 459\\ 26\\ 42\\ 20, \\ 46\\ .19\\ .30\\ 22\\ .02\\ 31\\ .00 \end{array}$
Radio Shack Radix Randex RCA Realistic Ricoh Sansui Sansui Sansui Sansui Socott Sharp Sharp Shintom Shintom Shintom Shintom Shy	.15	2, 03, .00,	, 04, 17, .22, , , , , , , 	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 29, 	$\begin{array}{c} .23\\ .23\\ 47\\ 20, \\ 45\\ .21\\ .45\\ 19\\ 26\\ 42\\ 20, \\ 6\\ .19\\ .30\\ 22\\ .02\\ .31\\ .00\\ .01 \end{array}$
Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sansui Sansui Sansui Sansu Socott Sharp Sharp Sharp Sharp Sharg Synphonic Tatung		2, 03, .00,	, 04, 17, .22, ,,, ,,	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 29, .00,	$\begin{array}{c} .23\\ .23\\ 47\\ .2, 45\\ .14\\ 45\\ 19\\ 26\\ 42\\ .46\\ .30\\ 22\\ .02\\ .00\\ .01\\ 01\\ \end{array}$
Radio Shack Radix Radix Realistic Ricoh Runco Sansug Sansug Sansy Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sony Sylvania Sylvania Teac Teac		2, 03, .00,	, 04, 17, .22, , .22, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 29, .00, .22,	$\begin{array}{c} .23\\ .23\\ 47\\ 20, \\ .24\\ .24\\ .20, \\ 45\\ .20, \\ 45\\ .30\\ .22\\ .02\\ .31\\ .00\\ .01\\ .39\end{array}$
Radio Shack Radix Radix Realistic Ricoh Runco Sansug Sansug Sansy Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sony Sylvania Sylvania Teac Teac		2, 03, .00,	, 04, 17, .22, , .22, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	 41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 29, .00, .22,	$\begin{array}{c} .23\\ .23\\ 47\\ 20, \\ .24\\ .24\\ .20, \\ 45\\ .30\\ .45\\ .30\\ .22\\ .02\\ .31\\ .00\\ .01\\ .39\end{array}$
Radio Shack Radix Radix RcA Realistic Ricoh Samsung Sansu Sansu Sansu Sanyo Sanyo Sanyo Sanyo Sanyo Sanyo Sanyo Sanyo Soott Sharp Sharp Shogun S	.15	2, 03, .00, 5, 16, .02, 00,	, 04, 17, .22, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,, ,,,, ,,,	 35, 18, 23, 18, 34, 17, 23, 09, 22, 	41, 19, 32, , .16, .14, .01, 32, 37, 18, 32, , 21, , 29, , .00, .22, 22,	$\begin{array}{c} .23\\ .23\\ 47\\ 20, 45\\ .14\\ 45\\ 19\\ 26\\ 42\\ 20, 46\\ .19\\ .30\\ .22\\ .01\\ 39\\ 23\\ \end{array}$
Radio Shack Radix Radix RcA Realistic Ricoh Samsung Sansu Sansu Sansu Sanyo Sanyo Sanyo Sanyo Sanyo Sanyo Soott Sharp Sharp Shogun Shogun Shogun Shogun Shogun Shogun Sharp Sta Sylvania Teachnics Technics Telefunken	.15	2, 03, .00,	, 04, 17, .22, , , , , , , 	 35, 18, 23, 	41, 19, 32, .16, .14, .01, 37, 18, 32, 21, 29, .00, .22, 22, 	$\begin{array}{c} .23\\ .23\\ 47\\ 20, 45\\ .14\\ 45\\ 19\\ 26\\ 42\\ 20, 46\\ .19\\ .30\\ .22\\ .02\\ 31\\ .00\\ .01\\ 39\\ 23\\ .43\end{array}$
Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sanky Sanky Sanky Sanyo Scott Sharp Star Star Star Star Star Star Synyhonic Tatung Teknika Telefunken TMK		2, 03, .00,	, 04, 17, .22, , .22, ,, , .17, .33, 04, .22, ,,, ,,, ,,, ,,,, ,,, ,,,, ,,,, ,,,, ,,,		, 41, 19, 32, , .16, .14, 32, , 37, 18, 32, , 21, , 22, , 22, , 22, , 22,	$\begin{array}{c} .23 \\ .23 \\ .47 \\ .20 \\ .45 \\ .14 \\ .45 \\ .26 \\ .42 \\ .46 \\ .30 \\ .30 \\ .20 \\ .30 \\ .00 \\ .01 \\ .30 \\ .30 \\ .00 \\ .01 \\ .30 \\ .45 \\ .45 \\ .45 \\ .20 \\ .30 \\ .01 \\ .30 \\ .30 \\ .45 \\ .45 \\ .30 \\$
Radio Shack Radix Randex RCA Realistic Ricoh Samsung Sanky Sanky Sanky Sanyo Scott Sharp Star Star Star Star Star Star Synyhonic Tatung Teknika Telefunken TMK		2, 03, .00,	, 04, 17, .22, , .22, ,, , .17, .33, 04, .22, ,,, ,,, ,,, ,,,, ,,, ,,,, ,,,, ,,,, ,,,		, 41, 19, 32, , .16, .14, 32, , 37, 18, 32, , 21, , 22, , 22, , 22, , 22,	$\begin{array}{c} .23 \\ .23 \\ .47 \\ .20 \\ .45 \\ .14 \\ .45 \\ .26 \\ .42 \\ .46 \\ .30 \\ .30 \\ .20 \\ .30 \\ .00 \\ .01 \\ .30 \\ .30 \\ .00 \\ .01 \\ .30 \\ .45 \\ .45 \\ .45 \\ .20 \\ .30 \\ .01 \\ .30 \\ .30 \\ .45 \\ .45 \\ .30 \\$
Radio Shack Radix Randex RCA Realistic Ricoh Sansu Sansu Sansu Sansu Sott Scott Sharp Synbhonic Tatung Technics Telefunken TMK Toshiba	02	2, 03, .00,	, 04, 17, .22, , .22, ,, , .17, .33, 04, .22, ,, , .07, , .07, , .15, , .15,		, 41, 19, 32, , .16, .14, .01, 327, 18, 327, 18, 327,, 29, , 22, , .22, , 22, , 22, , 22, , 22, , 22,	$\begin{array}{c} .23\\ .23\\ 47\\ 20, 45\\ .14\\ 45\\ 19\\ 26\\ 42\\ 20, 6\\ 19\\ .30\\ 20\\ 21\\ 30\\ 01\\ 32\\ 33\\ 45\\ 37\\ \end{array}$
Radio Shack Radix Radix RcA Realistic Sansung .		2, 03, .00, 5, 16, .02, 00,	, 04, 17, , 22, , 17, , 33, 04, , 17, , 33, 04, , 17, , 17, , 17, , 17, , 17, , 17, , 17, , 17, , 22, , 17, , 24, , 17, , 17, , 24, , 17, , 15, , 15,	35, 18, 23, 18, 34, 17, 23, 22, 	41, 19, 32, , .16, .01, 32, 37, 18, 32, , 21, , 22, .22, .22, .22, .22,	$\begin{array}{c} .23\\ .23\\ 47\\ .2\\ .45\\ .14\\ 45\\ 19\\ 24\\ 54\\ 22\\ .46\\ .19\\ .30\\ .45\\ .22\\ .02\\ 1\\ .00\\ 1\\ 32\\ .3\\ 45\\ .45\\ .45\\ .45\\ .45\\ .45\\ .45\\ .45\\$
Radio Shack Radix Radix RCA Realistic Ricoh Sansug Sharp Sony Sony Teknika Telefunken TMK Toshiba Unitech		2, 03, .00,	, 04, 17, , 22, , 17, , 33, 04, , 17, , 33, 04, , 15, , 15, , 15, , 15,	35, 18, 23, 18, 34, 17, 23, 22, 22, 16, 	41, 19, 32, , , , , , , ,	$\begin{array}{c} .23\\ .23\\ 47\\ .2\\ .45\\ .14\\ 49\\ 26\\ 54\\ 20\\ .49\\ .30\\ .45\\ .20\\ 20\\ .01\\ 39\\ 23\\ .45\\ .45\\ .45\\ \end{array}$
Radio Shack Radix Radix Realistic Ricoh Sumsung Samsung Sansu Sansu Sansu Sansu Sansu Sansu Sansu Sanyo Sott Sharp Sylvania Technics Teknika Totevision Unitech Vector		2, 03, .00,	, 04, 17,, 22, , 17, , 33, 04,, 33, 04,, 17, , 17,	35, 18, 23, 18, 34, 17, 23, 09, 22, 	41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 22, 22, 22, 22, 22, 22, 22, 22, 	$\begin{array}{c} .23 \\ .23 \\ .20 \\ .21 \\ .14 \\ .14 \\ .14 \\ .14 \\ .24 \\ .24 \\ .24 \\ .24 \\ .3. \\ .45 \\ .20 \\ .21 \\ .01 \\ .01 \\ .03 \\ .23 \\ .45 \\ .45 \\ .16 \\ \end{array}$
Radio Shack Radix Radix Realistic Ricoh Sumsung Samsung Sansu Sansu Sansu Sansu Sansu Sansu Sansu Sanyo Sott Sharp Sylvania Technics Teknika Totevision Unitech Vector		2, 03, .00,	, 04, 17,, 22, , 17, , 33, 04,, 33, 04,, 17, , 17,	35, 18, 23, 18, 34, 17, 23, 09, 22, 	41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 22, 22, 22, 22, 22, 22, 22, 22, 	$\begin{array}{c} .23 \\ .23 \\ .20 \\ .21 \\ .14 \\ .14 \\ .14 \\ .14 \\ .24 \\ .24 \\ .24 \\ .24 \\ .3. \\ .45 \\ .20 \\ .21 \\ .01 \\ .01 \\ .03 \\ .23 \\ .45 \\ .45 \\ .16 \\ \end{array}$
Radio Shack Radix Radix Realistic Ricoh Sumsung Samsung Sansu Sansu Sansu Sansu Sansu Sansu Sansu Sanyo Sott Sharp Sylvania Technics Teknika Totevision Unitech Vector		2, 03, .00,	, 04, 17,, 22, , 17, , 33, 04,, 33, 04,, 17, , 17,	35, 18, 23, 18, 34, 17, 23, 09, 22, 	41, 19, 32, .16, .14, .01, 32, 37, 18, 32, 21, 22, 22, 22, 22, 22, 22, 22, 22, 	$\begin{array}{c} .23 \\ .23 \\ .20 \\ .21 \\ .14 \\ .14 \\ .14 \\ .19 \\ .24 \\ .24 \\ .24 \\ .24 \\ .13 \\ .45 \\ .20 \\ .21 \\ .01 \\ .01 \\ .03 \\ .23 \\ .45 \\ .16 \\ .16 \\ \end{array}$
Radio Shack Radix Radix Realistic Ricoh Sansui Sansui Sansui Sanyo Scott Scott Sharp Synphonic Tatung Teknika Telefunken TMK Totevision Vector Resea Video Conce		2, 03, .00,	, 04, 17, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, ,	35, 18, 23, 23, 38, 23, 38, 31, 23, 34, 17, 23, 34, 17, 23, 34, 17, 23, 34, 17, 23, 34, 17, 23, 34, 17, 23, 34, 17, 23, 34, 17, 23, 34, 34, 34, 34, 34, 34, 34, 34, 34, 3	41, 19, 32,, 16, .14, .01, 32, 37, 18, 32,, 21, .29,, 221, 220,, 227, 200,, 227, 200,, 227, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	$\begin{array}{c} .23 \\ .23 \\ .24 \\ .24 \\ .24 \\ .24 \\ .24 \\ .24 \\ .24 \\ .24 \\ .20 \\ .30 \\ .20 \\ .30 \\ .20 \\ .30 \\ .00 \\ .01 \\ .32 \\ .44 \\ .37 \\ .45 \\ .45 \\ .45 \\ .45 \\ .44 \\ .48 \\$
Radio Shack Radix Radix RCA Realistic Ricoh Sansug		2, 03, .00,	, 04, , 17, , 33, 04, , 33, 04, , 17, , 15, ,	35, 18, 23, 18, 23, 34, 17, 23, 09, 22, 	41, 19, 32, .16, .14, .32, 21, 22, .00, .22, .22, .00, .22, .00, .22, .00, .22, .00, .22, .00, .22, .00, .16, 	$\begin{array}{c} .23 \\ .23 \\ .20 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\$
Radio Shack Radix Radix RCA Realistic Ricoh Sansug		2, 03, .00,	, 04, , 17, , 33, 04, , 33, 04, , 17, , 15, ,	35, 18, 23, 18, 23, 34, 17, 23, 09, 22, 	41, 19, 32, .16, .14, .32, 21, 22, .00, .22, .22, .00, .22, .00, .22, .00, .22, .00, .22, .00, .22, .00, .16, 	$\begin{array}{c} .23 \\ .23 \\ .20 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\ .41 \\ .21 \\$
Radio Shack Radix Radix Realistic Ricoh Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sansung Sharp Sony Sony Teachics Teknika Toshiba Vector Resea Video Conce Video Sonic Wards		2, 03, .00,	, 04, , 04, , 17, , 33, 04, , 22, , 17, , 33, , 17, , 17,	35, 18, 23, 18, 23, 18, 23, 18, 23, 18, 17, 23, 18, 17, 23, 14, 17, 23, 14, 17, 23, 14, 17, 23, 14, 17, 23, 18, 17, 23, 18, 18, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	41, 19, 32,, 16,, 14,, 337, 18, 32,, 21,, 29,, 21,, 22,, 27, 18, 32,, 21,, 29,, 27, 20,, 27, 16,, 19,	.23,247,20,451,451,264,420,661,930,450,202,2031,001,019,23,345,162,485,202,100,010,019,23,345,162,484,52,
Radio Shack Radix Radix RcA RcA Realistic Sansu Sharp		2, 03, .00,	, 04, , 04, , 17, .33, 04, , 17, .33, 04, , 17, .33, , 17, , 15, ,,,,,,,		41, 19, 32,, 16,, 14,, 32, 37, 18, 32,, 21,, 29,, 0, 2, 2,, 27, 20,, 27, 20,, 27, 20,, 16,, 19, 45,	$\begin{array}{c} .23 \\ .23 \\ .23 \\ .23 \\ .24 \\$
Radio Shack Radix Radix RcA RcA Realistic Sansu Sharp		2, 03,	, 04, , 17, , 33, 04, ,,, ,,,, ,,	35, 18, 23, 23, 23, 18, 34, 17, 23, 09, 22, 16, 16, 18, 37, .00,	41, 19, 32,, 16,, 14,, 32, 37, 18, 32,, 21,, 29,, 20,, 22,, 27, 20,, 23,, 19, 5, 22,, 27, 20,, 19, 5, 22,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 21,, 29,, 21,	$\begin{array}{c} .23 \\ .23 \\ .24 \\ .24 \\ .14 \\$
Radio Shack Radix Radix RcA RcA Realistic Sansu Sharp		2, 03,	, 04, , 17, , 33, 04, ,,, ,,,, ,,	35, 18, 23, 23, 23, 18, 34, 17, 23, 09, 22, 16, 16, 18, 37, .00,	41, 19, 32,, 16,, 14,, 32, 37, 18, 32,, 21,, 29,, 20,, 22,, 27, 20,, 23,, 19, 5, 22,, 27, 20,, 19, 5, 22,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 29,, 21,, 21,, 29,, 21,	$\begin{array}{c} .23 \\ .23 \\ .24 \\ .24 \\ .14 \\$
Radio Shack Radix Radix RcA RcA Realistic Sansu Sharp		2, 03, .00,	, 04, 17, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, 04, .22, , 17, .33, .04, .22, , 17, .33, .04, , 17, , 20, , 17, , 20, , 20	35, 18, 23, 23, 34, 17, 23, 09, 22, 18, 34, 17, 23, 18, 34, 17, 23, 18, 34, 17, 23, 18, 34, 17, 23, 18, 34, 18, 34, 17, 23, 17, 24, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	41, 19, 32,, .16, .14, .032, 37, 18, 32,, 29,, 29,, 29,, 29,, 20,, 27, 20,, 27, 20,, 19, 5, 22,, 19, 5, 22,, 19, 5, 22,, 19, 5, 22,, 20,, 19, 5, 22,, 20,,	$\begin{array}{c} .23 \\ .23 \\ .24 \\$

ULTRATEC OSD



- 1. Press MENU on the remote control to display the different features on your HITACHI Projection TV.
- 2. Press the CURSOR buttons to highlight a different feature.
- 3. Press EXIT on the remote control to quickly exit from a menu.
- 4. Press HELP on the remote control when a menu is displayed, and text will appear giving a description of that menu.



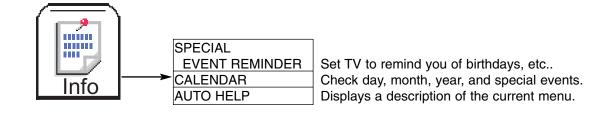
This part of the screen shows what selections are available.	
	_
V- SET UP CUSTOM VIDEO AUDIO THEATER INFO	
MENU LANGUAGE PLUG & PLAY	
SIGNAL SOURCE AUTO CHANNEL SET CHANNEL MEMORY	
CHANNEL LIST CLOCK SET MAGIC FOCUS	
	This part of the screen shows which remote control buttons to use.
0000000	



ULTRATEC OSD

Set Up	MENU LANGUAGE PLUG & PLAY SIGNAL SOURCE AUTO CHANNEL SET CHANNEL MEMORY CHANNEL LIST CLOCK SET MAGIC FOCUS	Choose English, French, or Spanish text. Optimum hook up for your system. Select Antenna or Cable TV. First time set up for channel buttons. Channel buttons, add, skip. Check channel name, scan, and child lock. Set before using timer features. Automatically match red, green, and blue colors to make white.
Custom	CHANNEL ID. VIDEO ID. FAMILY FAVORITES CHILD LOCK 4 EVENT PROGRAM AUTO LINK CLOSED CAPTION MENU BACKGROUND FIRST TIME TOUR	Label channels PAY1, ABC, etc. Label video inputs VCR1, DVD1, etc. Allows you to set and view favorite channels. Block channel picture and sound. Turn TV on and off once, daily, or weekly. Automatically turn TV on with any VIDEO input. Feature to display dialogue/text. Select from three types of backgrounds. Introduces you to basic TV functions.
Video	CONTRAST BRIGHTNESS COLOR TINT SHARPNESS RESET ADVANCED SETTINGS	Adjust contrast. Adjust brightness. Adjust color. Adjust tint. Adjust sharpness. Set VIDEO settings to factory preset. Improve picture performance.
Audio	BASS TREBLE BALANCE RESET ADVANCED SETTINGS	Adjust bass. Adjust treble. Adjust balance. Set AUDIO settings to factory preset. Improve sound performance.

	 THEATER MODES SRS WIRELESS SOUND	Picture and sound are automatically set. Produces 3-D sound using the TV's speakers. Select from two types of audio for wireless output.
Theater	WIRELESS SOUND	Select from two types of audio for wireless output.

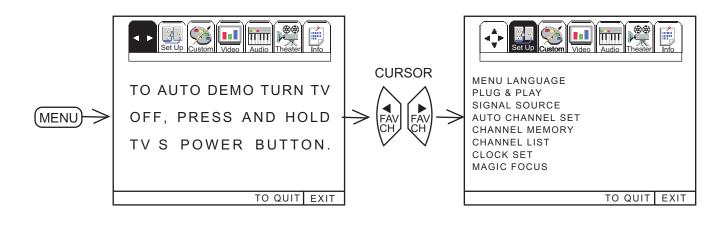


SET UP





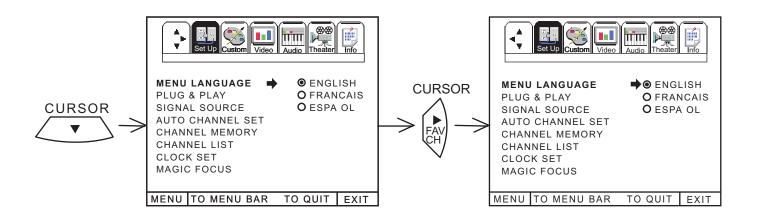
Select INITIAL SETUP when setting your TV up for the first time. Use the CURSOR \blacktriangle or \lor on the remote to highlight the function desired.



NOTE: To see an auto-demonstration of the on-screen displays with HELP text displayed, press and hold the POWER button on the TV set for approximately five seconds. Press the POWER button on the TV again to end the auto-demonstration.

MENU LANGUAGE

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



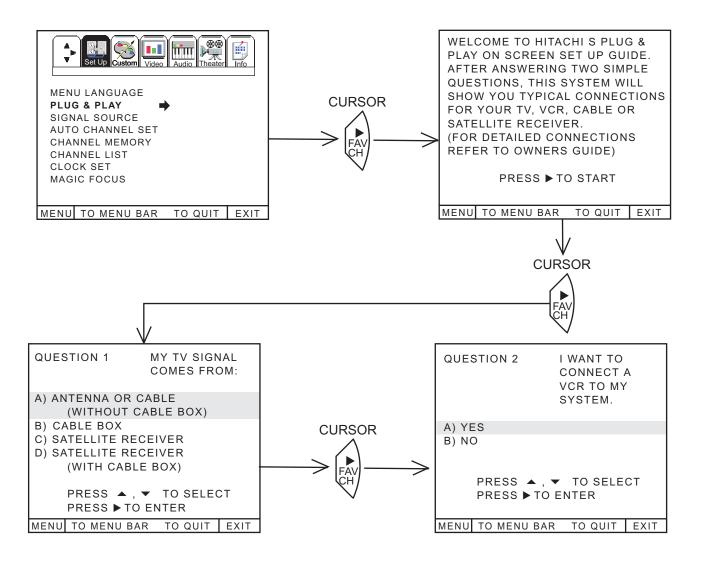
Use CURSOR \blacktriangle or \triangledown to select the MENU LANGUAGE of your choice.

Press EXIT to quit menu or CURSOR ◀ to return to previous menu.



PLUG & PLAY

This graphic guide function will help you to properly set up your TV or Home Theater System. Simply answer two questions and a graphic will be displayed, showing you the optimum setup for your personalized system.

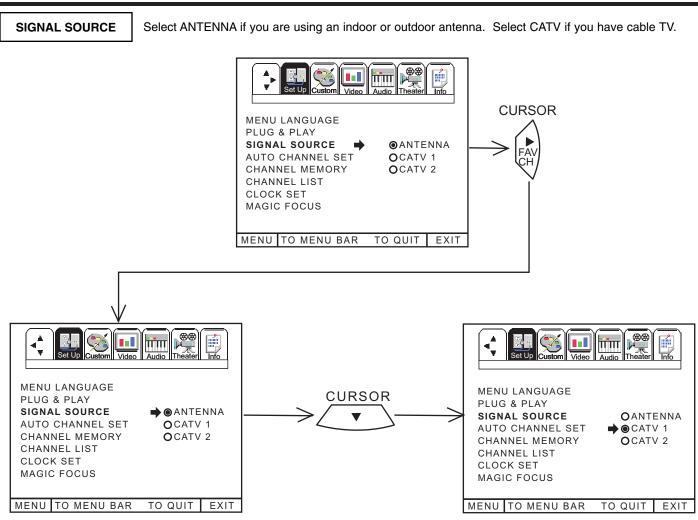


Press CURSOR ▲ or ▼ to highlight the correct answers to both questions. Press CURSOR ► to display the graphic guide.

Press EXIT to quit menu or CURSOR ► to begin AUTO CHANNEL SET. (See page 36.)

SET UP





Press CURSOR \blacktriangle or \checkmark to highlight and select the correct SIGNAL SOURCE mode. Press EXIT to quit MENU or CURSOR \triangleleft to return to previous menu.

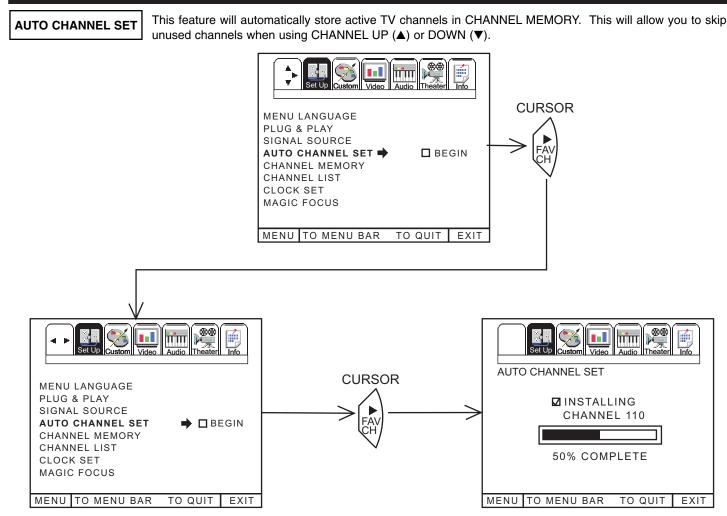
RECEPTION BAND					
	CATV 1 OR CATV 2				
AIR	CATV CHANNEL	Indicated on			
		the screen			
	VHF 2~13	2 ~ 13			
	Mid band A~1	14 ~ 22			
VHF 2 ~ 13ch	A-5 ~ A-1	95 ~ 99			
UHF 14 ~ 69ch	Super band J~W	23 ~ 36			
	Hyper band	37 ~ 64			
	W + 1 ~ W + 28				
	Ultraband	65 ~ 125			
	W + 29 ~ W + 84				

Reception channels for each mode are shown at the left.

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

If certain CATV channels are poor or not possible in CATV1 mode, set SIGNAL SOURCE to CATV2.



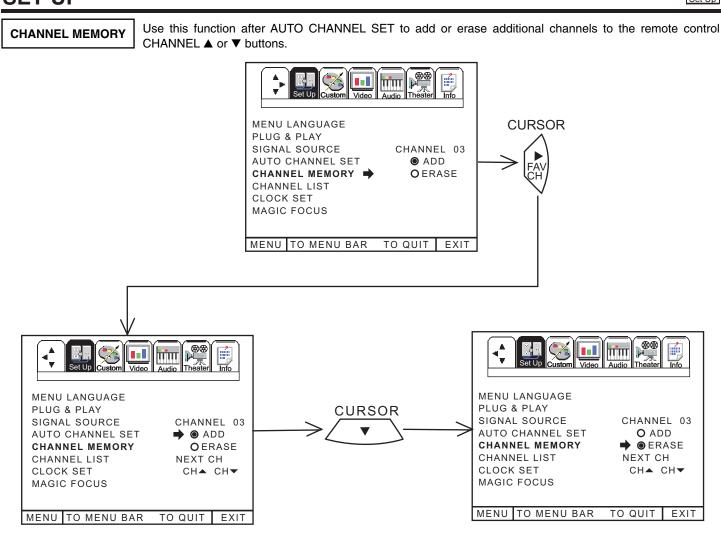


If the EXIT button is pressed while the AUTO CHANNEL SET function is engaged, programming will stop. If two antennas are connected, switch antenna inputs with the INPUT button and repeat AUTO CHANNEL SET for the second antenna input.

Remember to select the correct SIGNAL SOURCE mode before using AUTO CHANNEL SET for the second antenna input. See CHANNEL MEMORY to add or erase additional channels.

SET UP

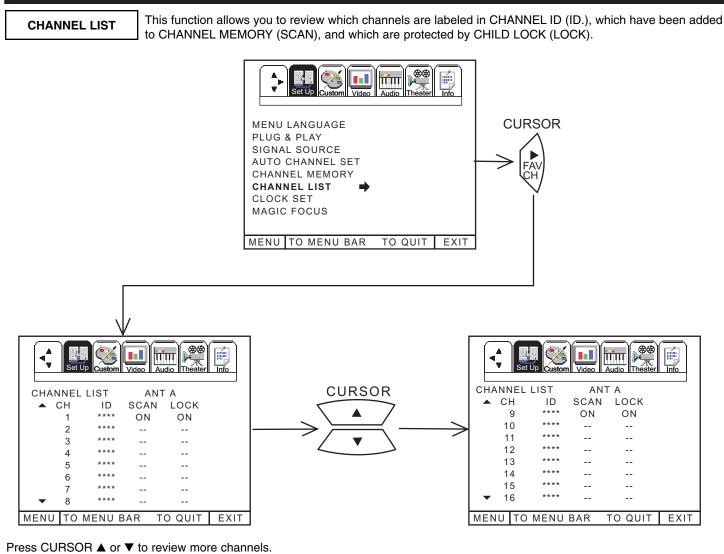




Add or erase additional channels while still in CHANNEL MEMORY using CHANNEL ▲ or ▼ or the number buttons to change the channel.

Press EXIT to quit menu or CURSOR ◀ to return to previous menu.



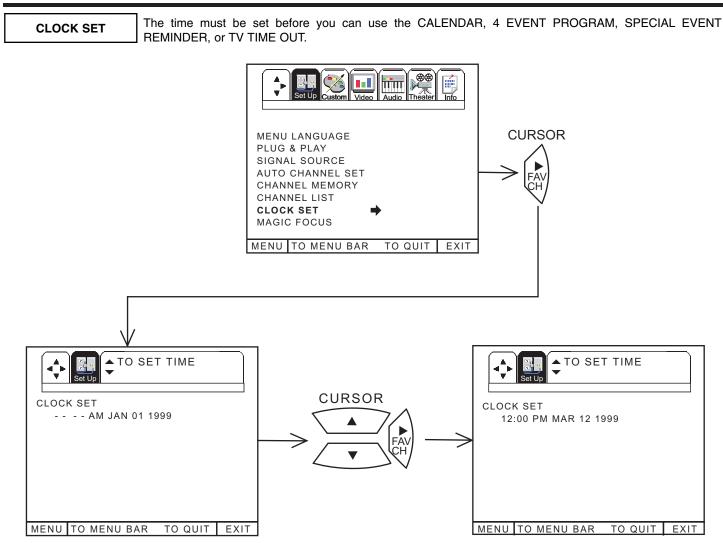


Press EXIT to quit menu or CURSOR ◀ to return to previous menu.

NOTE: Each touch of CURSOR \blacktriangle or \checkmark will display the next eight channels.

SET UP





Use CURSOR \blacktriangle or \blacktriangledown to set the time, date, and year.

Press CURSOR \triangleleft or \blacktriangleright to change position.

Press EXIT to quit menu or CURSOR ◄ to return to previous menu when the CURSOR is in the first position.



MAGIC FOCUS

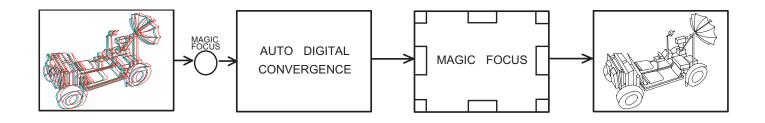
Your HITACHI Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that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

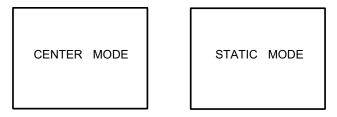
To simplify convergence, HITACHI incorporates a function called MAGIC FOCUS, which allows the TV to self-adjust. This process will take approximately 90 seconds. If this button is pressed during this 90 second period, no change in picture quality will occur. After this 90 second self-adjust period, picture quality will be optimum. (Do not move the TV during self-adjust.)

To enter this self-adjust mode, you may also select MAGIC FOCUS from the SETUP Menu. However, this will display a message prompting you to press the front panel MAGIC FOCUS button.



NOTE: Only a momentary press of the MAGIC FOCUS button is necessary to start AUTO DIGITAL CONVERGENCE. At anytime during this convergence correction process, you may press the MAGIC FOCUS button to exit the MAGIC FOCUS mode.

Do not press the MAGIC FOCUS button for more than three seconds. This is only for extreme cases of misconvergence and requires assistance from service. If one of the pictures shown below appears on the television screen, press the MAGIC FOCUS button a second time to exit this manual set up mode.



CUSTOM

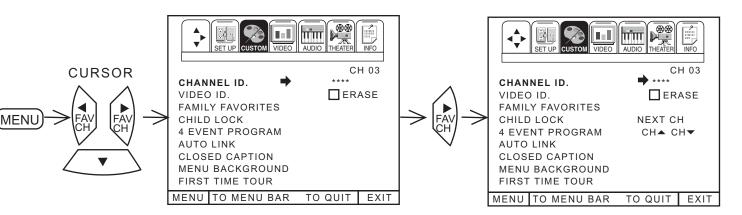




This selection contains advanced features which will make TV viewing easier and more enjoyable.

CHANNEL ID.

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 CATV1 signal source is selected.



Press CURSOR \blacktriangle or \blacktriangledown to select letters.

Press CURSOR \triangleleft or \blacktriangleright to change character position.

Press CHANNEL ▲ or ▼ and the number buttons to select and label additional channels. The CHANNEL ID will now appear in the top right corner of the screen.

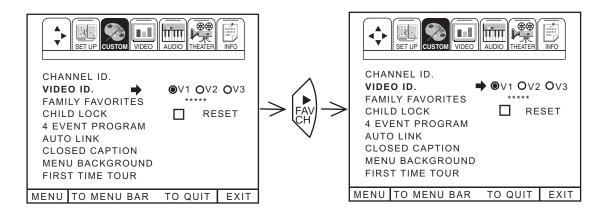
Press EXIT to quit menu or CURSOR ◀ to return to previous menu when the CURSOR is in the first position.

(*) represents a blank space. Select ERASE ID to erase a CHANNEL ID.

NOTE: If ANT A and ANT B are in the same SIGNAL SOURCE mode (see page 35), the CHANNEL ID for both antenna inputs will be the same. CHANNEL ID will be displayed only when channel is displayed as main picture.

VIDEO ID.

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



Press CURSOR ► to select the video input to be named.

Press CURSOR ▲ or ▼ to select letters.

Press CURSOR \blacktriangleright or \blacktriangleleft to change position.

Press EXIT to quit menu or CURSOR ◀ to return to previous menu when the CURSOR is in the first position.

(*) represents a blank space.

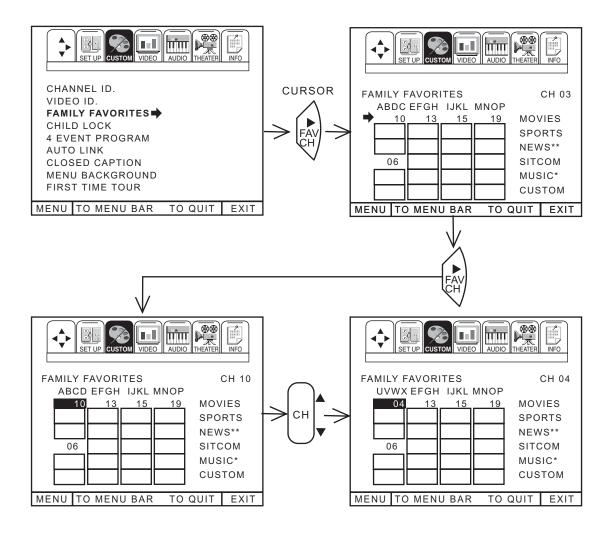
Select RESET to set VIDEO ID to original condition.

NOTE: VIDEO ID will be displayed only when VIDEO input is displayed as main picture.





This function allows you to group your favorite channels into six personalized categories that you can rename. A total of 24 channels can be stored in the FAMILY FAVORITES function.



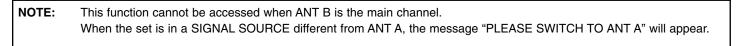
To enter a channel into a category, highlight to the left of the category title.

Press CHANNEL \blacktriangle or \lor or the number buttons to enter the desired channel. Repeat until category has been set with your favorite channels. The channel to be added is displayed in the top right corner of the screen. Enter channel 00 to erase a favorite channel.

To rename the categories, use the CURSOR buttons to highlight the category you would like to rename. Use CURSOR \blacktriangle or \triangledown to change a letter and CURSOR \blacktriangleright to select the next character to change.

To reset categories and channels back to original factory preset, press RECALL while you are renaming a category.

If a CHANNEL ID is set for the channel at the top of each column, it will be displayed above that column.

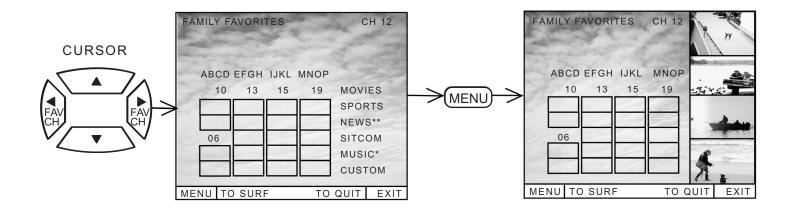


CUSTOM



FAMILY FAVORITES (OPERATION)

Use this function to display FAMILY FAVORITES selections as sub-pictures or to tune the main picture to a desired favorite channel.



Select a category using CURSOR \blacktriangle or \triangledown buttons.

Press MENU and the category will be displayed as sub-pictures at the right edge of the screen. This is useful for previewing a category. Use CURSOR \triangleleft , \triangleright , \blacktriangle or \forall buttons to highlight a favorite channel and the TV will automatically tune to that channel. Press EXIT to remove FAMILY FAVORITES OSD from the screen.

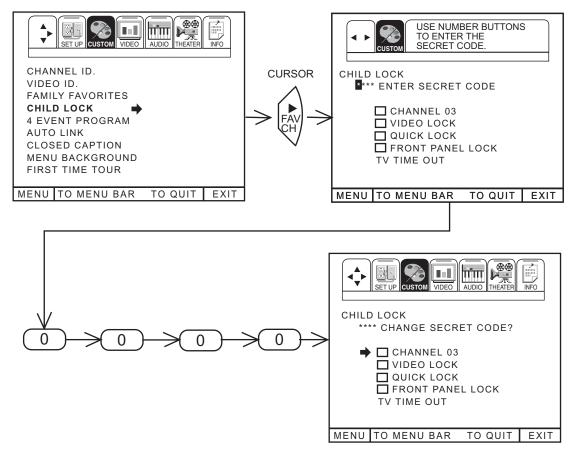
NOTE: If a category has some blank channel entries, these channels will appear as black sub-pictures.



CHILD LOCK

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 amount of time that you set.

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



Use CURSOR ▲ or ▼ to highlight function and the CURSOR ► button to set ON or OFF.

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

When VIDEO LOCK is turned on, the picture and sound for all video inputs will be blocked out. To lock the video inputs, you must be tuned to any video input.

When QUICK LOCK is turned on, the picture and sound for channels 3, 4 on both ANT A/B and all video inputs 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 OUT is turned on, you can set the BEGIN and END times and the TV cannot be viewed during that time period. (Set clock first.) Use CURSOR \blacktriangle or \lor 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) or OFF (to disable this function) and then press cursor \blacktriangleright to select your choice.

To change the secret code number, select CHANGE SECRET CODE. Enter a new four digit key number you prefer.

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 menu or cursor ◀ to return to previous menu.

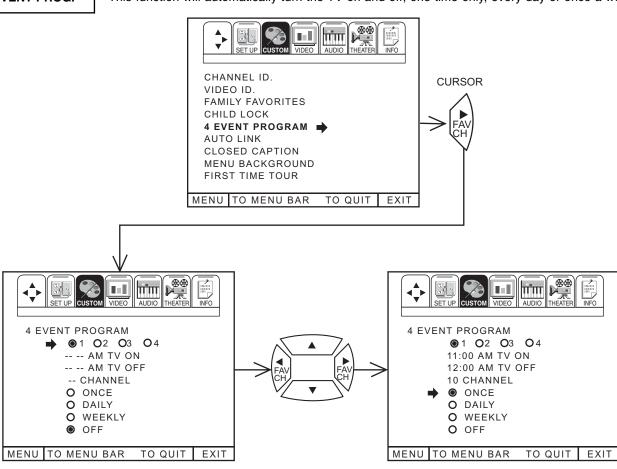
- **NOTE:** 1. If ANT A and ANT B are in the same SIGNAL SOURCE mode (see page 35), when a channel is locked, it is locked on both antenna inputs.
 - 2. When using TV TIME OUT make sure the clock is set (see page 39).
 - 3. When the recall button is pressed, a special icon appears on the screen and indicates that CHILD LOCK is activated.

CUSTOM



4 EVENT PROG.

This function will automatically turn the TV on and off, one time only, every day or once a week.



Press CURSOR ► to select PROGRAM 1, 2, 3, or 4.

Press CURSOR \blacktriangle or \blacktriangledown to select the time the TV will turn on and off.

Use CURSOR ► to change position.

Press CURSOR \blacktriangle or \checkmark to highlight then CURSOR \blacktriangleright to select MODE: ONCE (TV will turn on/off one time only) or MODE: DAILY (TV will turn on/off at the same time every day), or MODE: WEEKLY (TV will turn on/off at same time every week) and MODE: OFF (to disable this function).

Press CURSOR \blacktriangle or \bigtriangledown , CHANNEL (\blacklozenge) or (\bigtriangledown), or number buttons to set the channel the TV will tune to when it automatically turns on. Press EXIT to quit menu or cursor \triangleleft to return to previous menu.

If the clock is not set, you can not use this function and the screen below will appear.



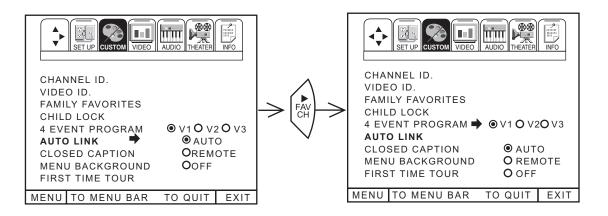
NOTE: 1. The OFF Timer will only activate if the TV was turned on or tuned with the ON Timer and no channel selection was made after this time. If you change the channel after the ON Timer has been activated, the OFF Timer will deactivate.
2. If no remote control button is pressed after ON Timer is activated, the TV will automatically turn off after three hours.

DN: 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.



AUTO LINK

Use this function to automatically turn the TV on and tune to VIDEO: 1, 2, or 3, when it detects a VIDEO input.



Use CURSOR ► to select Video Input. Use CURSOR ▲ or ▼, then CURSOR ► , to change AUTO LINK setting.

When AUTO is selected, the TV will turn on and tune to VIDEO: 1, 2, or 3 automatically, when a VIDEO: 1, 2, or 3 input device is detected. 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 tune to VIDEO: 1, 2, or 3 automatically, when a VIDEO: 1, 2, or 3 input device is detected 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 or CURSOR ◀ to return to previous menu.

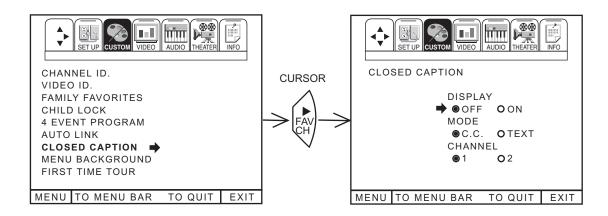
- **NOTE:** 1. Once the TV has been turned on using the AUTO LINK feature, it must be reset before AUTO LINK is used again. To do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described above.
 - 2. When using REMOTE mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.

CUSTOM



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 **C**.



DISPLAY: ON/OFF will turn the **CC** display on or off.

MODE: C.C. (Closed Caption) 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.

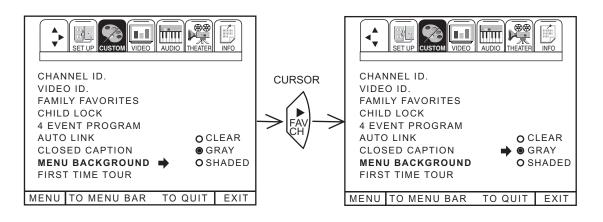
CHANNEL: 1 is used for the primary language (usually English).2 is sometimes used for a second language (may vary by region).

Use CURSOR \blacktriangle or \checkmark to highlight the function to change then press CURSOR \triangleright to change the function. Press EXIT to quit menu or CURSOR \triangleleft to return to previous menu.

NOTE: If you do not have sound, make sure MUTE is not set.

MENU BACKGROUND

This function allows you to choose from three menu backgrounds.



Use CURSOR ▲ or ▼ to change MENU BACKGROUND setting.

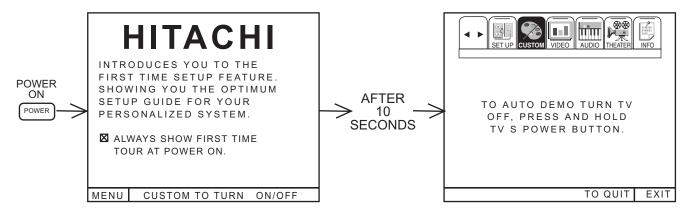
Press EXIT to quit menu or CURSOR ◀ to return to previous menu.

Select CLEAR and no background is visible, select GRAY and a gray background is visible (no picture can be seen behind menu screen), select SHADED and a light background is visible.



FIRST TIME TOUR

This function introduces you to the First Time Tour Setup Feature, showing you basic TV functions as well as helping you set up your TV or Home Theater System. This feature will be displayed every time your TV is turned on, unless you set FIRST TIME TOUR to OFF.



To disable this function, press the MENU button at any time during the tour, and the following screen will appear.



Use CURSOR \blacktriangle or \checkmark then CURSOR \triangleright to select ON or OFF. Press EXIT to quit Menu or CURSOR \triangleleft to return to previous menu.

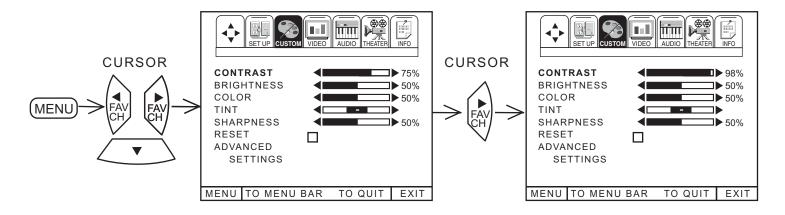
NOTE: 1. When TV set is turned on, the First Time Tour will always appear if it is set to ON.
 2. To exit during the First Time Tour, press the MENU button.

VIDEO





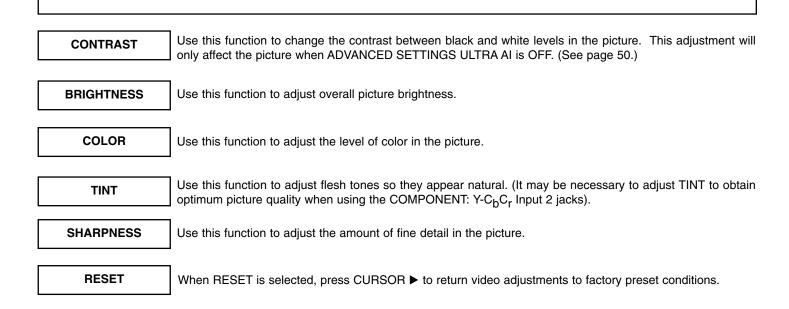
Select VIDEO to adjust picture settings and improve picture quality.



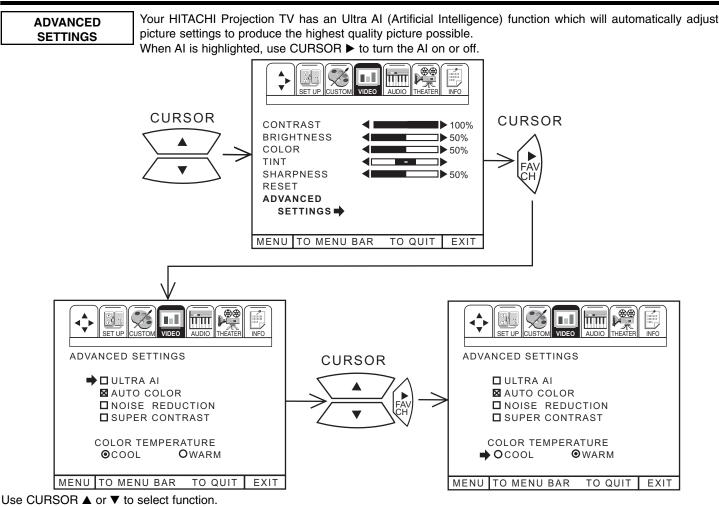
Use the CURSOR \blacktriangle or \bigtriangledown buttons to highlight the function to be adjusted. Press the CURSOR \triangleleft or \triangleright buttons to adjust the function. Press EXIT to quit menu.

NOTE: • 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.

• Contrast and Brightness adjustments will affect only the main picture. These adjustments will not affect the sub-picture.







Use CURSOR ► to change the function setting. When the function has an "X" in the box, it is ON. Press EXIT to quit menu or CURSOR ◄ to return to previous menu.

ULTRA AI (ARTIFICIAL INTELLIGENCE)

When the AI function is on, the TVs' internal computer will perform the following:

- 1. Automatically monitor and adjust contrast depending on room lighting (sensor is located in the front panel) to produce a more natural picture.
- 2. Automatically monitor and adjust color levels and maintain natural flesh tones.
- 3. Automatically compensate for weak or strong TV signals to produce a clear picture.

Turn the AI function off to control other PREFERENCE 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. (This function will automatically set to on and cannot be turned off when the ULTRA AI function is ON.)

NOTE: It may be necessary to set AUTO COLOR-ON to obtain optimum picture quality when using the COMPONENT: Y-C_bC_r Input 2 jacks.

NOISE REDUCTION

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality. (This function will automatically set to on and cannot be turned off when the ULTRA AI function is ON.)

SUPER CONTRAST

Turn on SUPER CONTRAST to improve picture detail in areas of high brightness.

COLOR TEMPERATURE

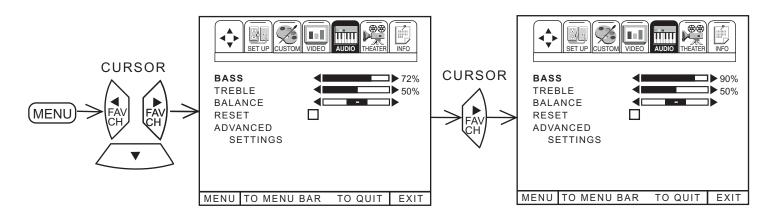
Set this to WARM for hotter colors with more red, or set to COOL for less intense colors with more blue.

AUDIO



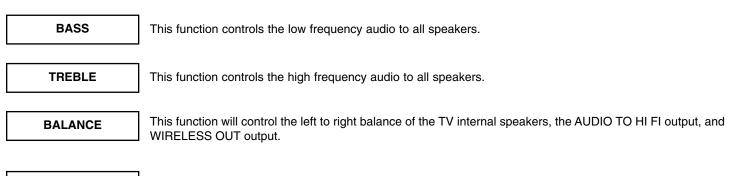


Select AUDIO SETTINGS to adjust the TV to your preference and to improve the sound quality.



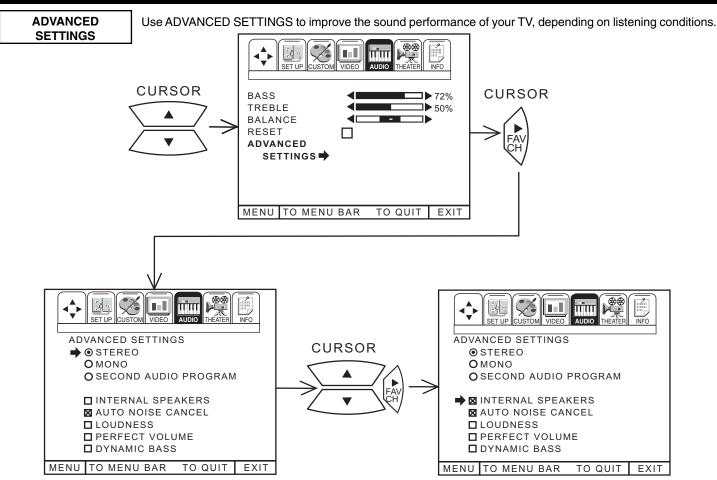
Use CURSOR \blacktriangle or \blacktriangledown to highlight the function to be adjusted. Press CURSOR \blacktriangleleft or \triangleright to adjust the function. Press EXIT to quit menu.

NOTE: If BASS is selected you are adjusting BASS. The additional menu items TREBLE and BALANCE can be selected and adjusted in the same manner.



RESET

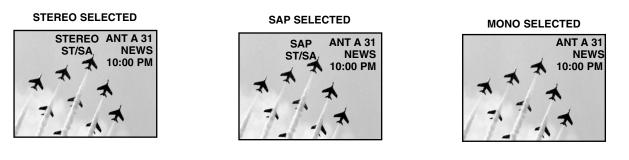
When RESET is selected, press CURSOR ► to return audio adjustments to factory preset conditions.



Press CURSOR \blacktriangle or \checkmark to highlight a function. Press CURSOR \blacktriangleright to change the function setting. When the function has an "X" in the box, it is ON.

MTS MODE

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or SAP (second audio program) which may be a secondary language, weather report, etc. The sources received will be displayed at the top center 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).



INTERNAL SPEAKERS

This function is useful when first setting up the external speakers, or 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.

LOUDNESS

This function will improve the quality of both low and high frequency sounds when listening at low volume levels.

PERFECT VOLUME

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

DYNAMIC BASS

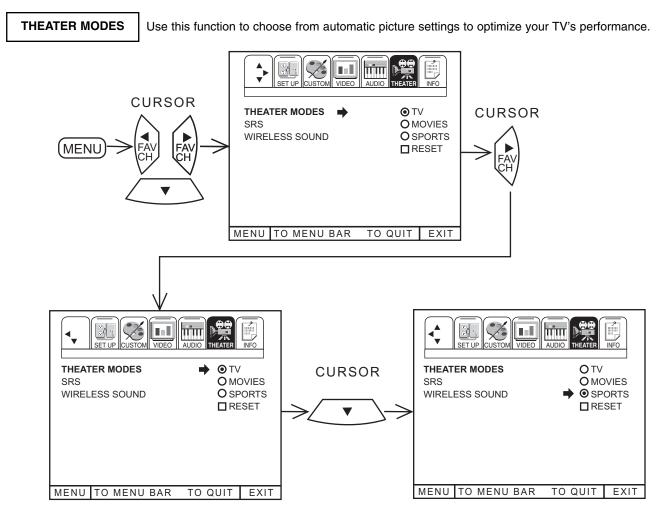
This function allows you to enjoy spectacular bass sound that would normally be heard only with expensive home speaker systems.

THEATER





Use this function to choose picture settings for a true home THEATER experience.



Use CURSOR \blacktriangle or \checkmark to change THEATER MODES settings.

- When TV mode is chosen, the following are automatically set: Contrast almost maximum, Super Contrast-OFF, Color Temp.-Cool, Loudness-ON, Perfect Volume-ON, Dynamic Bass-ON.
- When MOVIE mode is chosen, the following are automatically set: Contrast almost center, Super Contrast-OFF, Color Temp.-Warm, Loudness-OFF, Perfect Volume-OFF, Dynamic Bass-OFF.
- When SPORTS mode is chosen, the following are automatically set: Contrast-Maximum, Super Contrast-ON, Color Temp.-Cool, Loudness-OFF, Perfect Volume-OFF, Dynamic Bass-OFF.

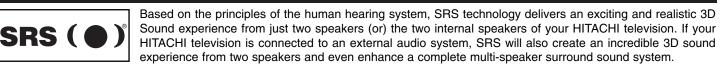
You can customize each of the above modes (TV, MOVIE, and SPORTS) to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. However, if RESET is selected, all modes will reset to the initial conditions as explained above.

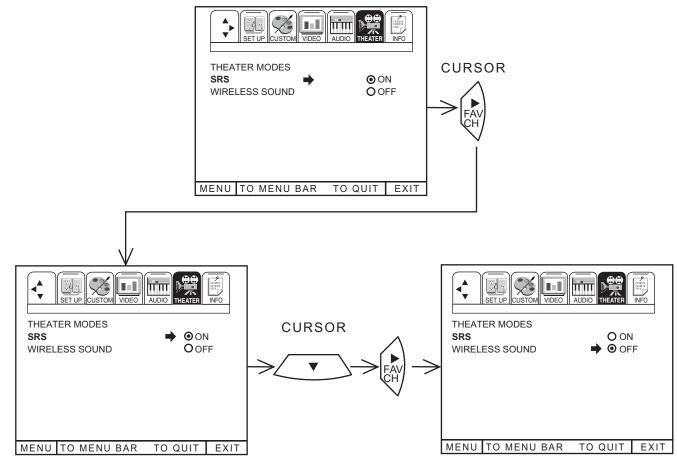
When RESET is selected, it will take approximately two seconds to return to factory conditions (SPORTS mode).

Press EXIT to quit menu or CURSOR ◀ to return to previous menu.



THEATER





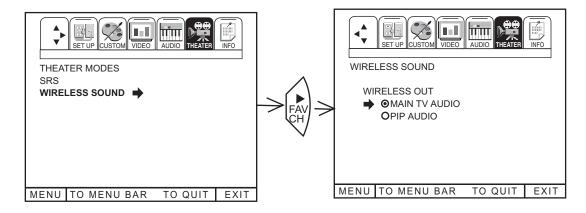
Use CURSOR \blacktriangle or \blacktriangledown , then CURSOR \triangleright to set SRS ON or OFF. Press EXIT to quit menu or CURSOR \triangleleft to return to previous menu.

NOTE: SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the U.S. and selected countries. SRS Technology is manufactured under license from SRS Labs, Inc. and is protected by USA patents 4,748,669 and 4,841,572 and additional patents worldwide.

THEATER



WIRELESS SOUND This feature allows you to choose between two possible variable audio outputs for a separate set of wireless speakers or another stereo amplifier. The audio output may be either MAIN TV AUDIO or PIP AUDIO.



Press CURSOR \blacktriangle or \triangledown to highlight a function.

Press CURSOR \blacktriangleright to select the function.

Press EXIT to quit menu or CURSOR ◀ to return to previous menu.

MAIN TV AUDIO

When set to MAIN TV AUDIO mode, your wireless speakers will play the same audio program as played on your TV. The volume of your wireless speakers will be controlled by the TV volume control.

PIP AUDIO

When set to PIP AUDIO mode, your wireless speakers will play the PIP sub-picture audio program. The volume of your wireless speakers will now be controlled by the PIP VOLUME control, which may be varied from 0 (min.) to 100 (max.). If no sub-picture is displayed, the wireless speakers will play the main channel audio program with the volume being controlled by the TV volume control.

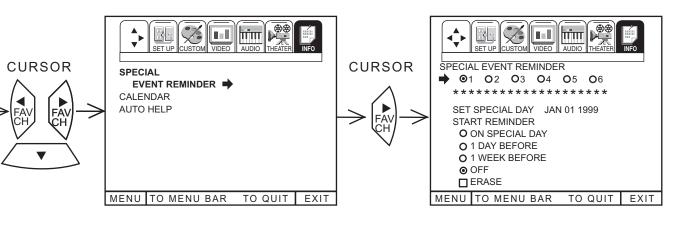


MENU



This function allows your TV to assist you with your busy day-to-day schedule.

SPECIAL EVENT REMINDER Use this function to set up to six special events into memory. These events can then be viewed in CALENDAR mode.



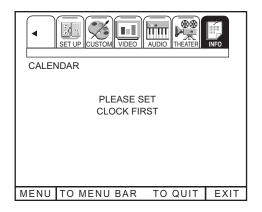
Press CURSOR \blacktriangleright to select EVENT 1 to 6. Press CURSOR \blacktriangle or \triangledown to select a letter.

Press CURSOR \blacktriangleright or \checkmark to select a letter Press CURSOR \triangleright to change position.

Set Special Day of reminder using cursor buttons.

Highlight the day of Start Reminder using CURSOR buttons, then press CURSOR ► to select. To erase SPECIAL EVENT, select ERASE EVENT then press CURSOR ►. Press EXIT to quit menu or CURSOR ◄ to return to previous menu.

If the clock is not set, you can not use this function and the next screen will appear.



- **NOTE:** 1. When the TV is turned on, the SPECIAL EVENT REMINDER message will automatically appear at the selected time. 2. Each special event message can be a maximum of 20 characters.
 - When the RECALL button is pressed, a special icon appears on the right bottom side of the screen and indicates a SPECIAL EVENT REMINDER message. Press the RECALL button again to display the SPECIAL EVENT REMINDER message.

INFO

MENU TO MENU BAR

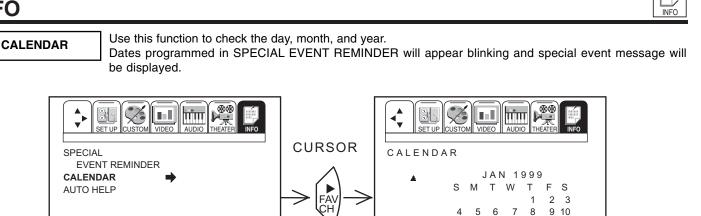
Press EXIT to quit menu or CURSOR ◀ to return to previous menu.

Press CURSOR \blacktriangle or \triangledown to change the month.

TO QUIT

If the clock is not set, you can not use this function and the next screen will appear.

EXIT



11 12 13

25

MENU TO MENU BAR

14 15 16 17

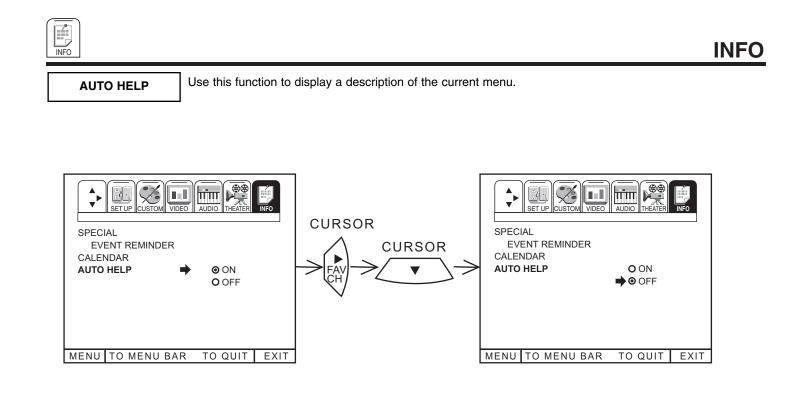
18 19 20 21 22 23 24

26 27 28 29 30 31

TO QUIT EXIT

CALENDAR PLEASE SET CLOCK FIRST MENU TO MENU BAR TO QUIT EXIT

NOTE: 1. Dates of SPECIAL EVENT REMINDER will appear blinking. Special event message will be displayed only if current date is within the day of Start Reminder Specifications as chosen in SPECIAL EVENT REMINDER. (See page 56).
2. A special icon appears next to "CALENDAR" when a Special Event Reminder is set.



Press CURSOR ▲,▼ to select ON or OFF. Press EXIT to quit menu or CURSOR ◀ to return to previous menu.

NOTE: You can also turn this function ON and OFF by pressing the HELP button on the remote control.

CARE OF YOUR HITACHI PROJECTION TV 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 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.

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

• IGNITION NOISE: 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.
• GHOSTS: 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.
• SNOW: 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.
• RADIO FREQUENCY INTERFERENCE: The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

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.



SYMPTOMS	BOST THESE ISE IS	Be Sur even AD LEWS	Be Site Downer Connection is	Ty at N's Swips Dugged in	Check Channel OW	Chest antenna co. (Station tro	Chessentenna for in out of	Check Outside and Douten leads of Ty	Adjuss	40 Contrast Cord	Adjuct Adjuct	Adjust Color control	40juci Tini control	nor loume 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
- 1000 Line Horizontal Resolution
- Pure Green and Red Filter Lenses
- Artificial Intelligence System
- · Remote (Controls many VCR brands, cable boxes, satellite boxes, and other audio equipment.)
- High Definition On-Screen Display (UltraTEC BIT-MAP)
- ON SCREEN PLUG and PLAY guide
- Full Set of Input Jacks, including S-Video
- COMPONENT: Y/Cb/Cr Input Jacks
- Closed Caption Decoder
- High Resolution Picture-In-Picture with Freeze
- Tuned Port Bass Reflex Speakers
- Magic Focus (Auto Digital Convergence)
- Dual Antenna Inputs
- Auto Link
- SRS (●)

Inputs:

٠	Power Input	AC 120V, 6	30Hz
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- Video1.0Vp-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 (Cb,Cr)0.7Vp-p, 75 Ohm

Outputs:

٠	Video			1.0Vp-p. 75Ohm
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Dimensions:

		50UX57B	60UX57B
•	Height (in.)	51 ¹⁵ / ₁₆	60 ⁷ / ₁₆
•	Width (in.)	43 ⁹ / ₁₆	51 ¹¹ / ₁₆
•	Depth (in.)	24 ³ / ₄	27 ¹ / ₁₆
•	Weight (lbs.)	190	308

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

USEFUL INFO



HITACHI To locate an authorized HITACHI service facility in the continental U.S.A. and Canada. DIAL TOLL FREE V days a week, 24 hours a day COOD CLOCACCEUC (1-800-448-2244)

Hitachi America, LTD. Home Electronics Division

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 1855 Dornoch Court San Diego, CA 92173

In Canada, please contact: 1-800-HITACHI (1-800-448-2244)

> HITACHI (HSC) Canada Inc. 6740 Campobello Road Mississauga, Ont. L5N 2L8

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