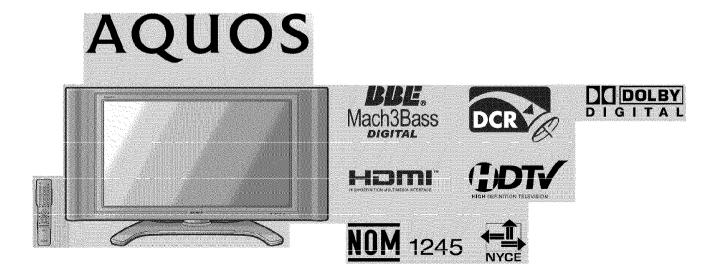




LC-37D4U LC-32D4U LC-26D4U

LIQUID CRYSTAL TELEVISION

OPERATION MANUAL



LC-37D4U LC-32D4U LC-26D4U

Besides the specifications, model name with "J" indicates the product specifically assembled in Japan.

LIQUID CRYSTAL TELEVISION

ENGLISH

OPERATION MANUAL

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- Menu items that are not selectable are grayed out.
- The examples used throughout this manual are based on the LC-32D4U model.

IMPORTANT:

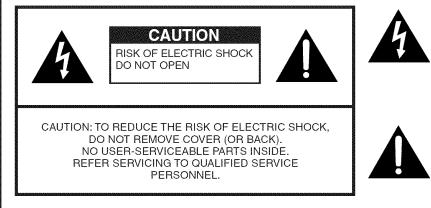
To aid reporting in case of loss or theft, please record the TV's model and serial numbers in the space provided. The numbers are located at the rear of the TV.

Model No.:

Serial No .:

IMPORTANT INFORMATION

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



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



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

IMPORTANT INFORMATION

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION:

DO NOT PLACE THIS PRODUCT ON AN UNSTABLE CART, STAND, TRIPOD, BRACKET, OR TABLE. THE PRODUCT MAY FALL CAUSING SERIOUS PERSONAL INJURY AND SERIOUS DAMAGE TO THE PRODUCT. USE ONLY WITH A CART, STAND, TRIPOD, BRACKET, OR TABLE RECOMMENDED BY THE MANUFACTURER OR SOLD WITH THE PRODUCT. FOLLOW THE MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING THE PRODUCT AND USE MOUNTING ACCESSORIES RECOMMENDED BY THE MANUFACTURER. A PRODUCT AND CART COMBINATION SHOULD BE MOVED WITH CARE. QUICK STOPS, EXCESSIVE FORCE, AND UNEVEN SURFACES MAY CAUSE THE PRODUCT AND CART COMBINATION TO OVERTURN.



WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

CAUTION:

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

DECLARATION OF CONFORMITY

SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-37D4U SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-32D4U SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-26D4U

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RESPONSIBLE PARTY:

SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

TEL: 1-800-BE-SHARP

For Business Customers: URL http://www.sharpusa.com

INFORMATION:

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

-Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code 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."

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

DEAR SHARP CUSTOMER

Thank you for your purchase of the Sharp Liquid Crystal Television. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Instructions carefully before using this product.

IMPORTANT SAFETY INSTRUCTIONS

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your Liquid Crystal Television, please read the following precautions carefully before using the product.

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



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

Additional Safety Information

- 15) Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 16) Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18) Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the AC cord or plug is damaged.
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance this indicates a need for service.
- 19) Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20) Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21) Wall or ceiling mounting When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

IMPORTANT SAFETY INSTRUCTIONS

- Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- Stand Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
- Selecting the location Select a place with no direct sunlight and good ventilation.
- Ventilation The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- The Liquid Crystal panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the panel breaks.
- Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
- The Liquid Crystal panel is a very high technology product with 3,147,264 thin film transistors, giving you fine picture details.

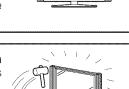
Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Precautions when transporting the TV

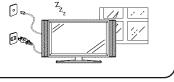
When transporting the TV, never carry it by holding onto the speaker. Be sure to always carry the TV by two people holding it with two hands-one hand on each side of the Display.

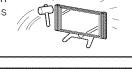
- Lightning For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.
- · Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

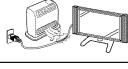


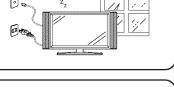




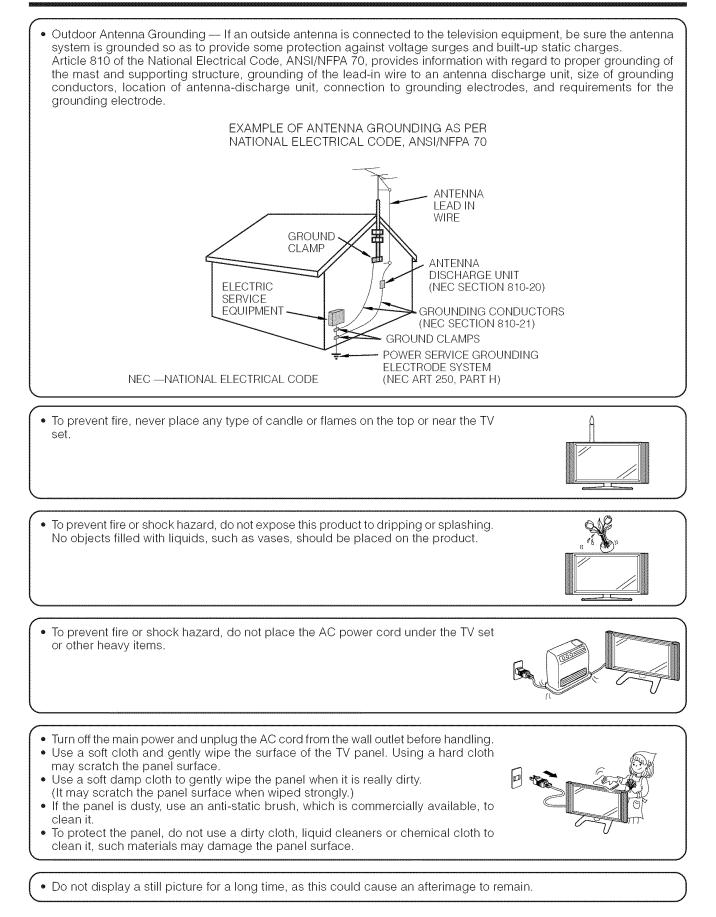








IMPORTANT SAFETY INSTRUCTIONS



QUICK REFERENCE

STOP! To safely remove the AQUOS television from the box

It's best to use 2 people to remove the AQUOS television for stability.

- **1.** Use the cardboard holders on either side of the AQUOS television to remove it from the box.
- **2.** Remove the cardboard; however, keep the wrapping on the AQUOS television to protect it while moving.
- 3. Lift onto installation location as the diagram illustrates.

Ventilation & Cleaning Tips

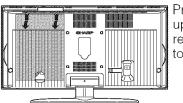
Keep your AQUOS television in a well ventilated area and make sure not to place it by a heat source or use near water. The AQUOS television is designed for AC use only and should be used with supplied AC cord.

Clean the screen by spraying a soft lint free cloth with water to lightly moisten. Gently wipe and avoid pressing on the screen. To clean the outer cabinet, use the same method. Do not use liquid or aerosol cleaners.

The screen is glass and can be scratched or broken when dropped or impacted.

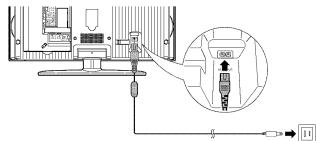
QUICK INSTALLATION TIPS

1. Facing the back of the AQUOS television, remove the terminal cover.

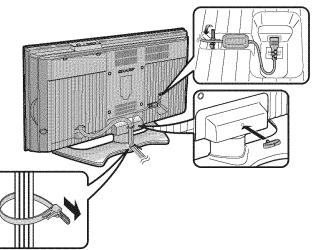


Press down the upper hooks to remove the cover toward you.

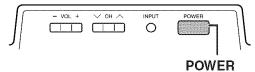
- **2.** Attach your antenna to the back of the TV. (See page 13.)
- **3.** Connect the AC plug for the AQUOS television into the wall outlet.



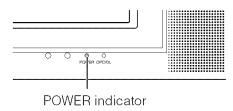
• TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED. **4.** Place the Ferrite core in the space indicated in the below figure and bundle the cords properly with a cable clamp and cable tie.



- 5. How to turn on the AQUOS television for the first time.
 - A) Press **POWER** on AQUOS television.



B) POWER indicator on the front of the AQUOS television lights blue.



NOTE)

- Speaker cannot be detached from the TV.
- TV angle cannot be adjusted.



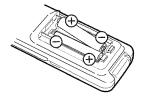


QUICK REFERENCE

If the remote control fails to operate TV functions, replace the batteries in the remote control unit.

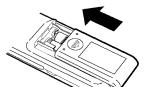
1 Open the battery cover.





2 Insert two "AAA" size batteries (supplied with the product).

• Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

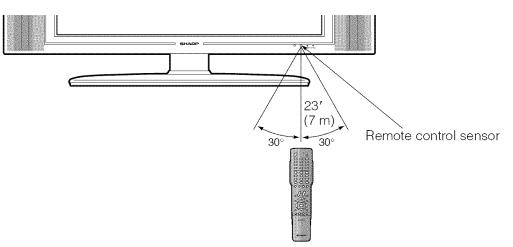


3 Close the battery cover.

A CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

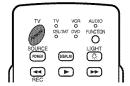
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove batteries from it.



IMPORTANT:

The POWER indicator on the AQUOS television should light blue indicating you have power to the AQUOS television.

If the POWER indicator on the AQUOS television still does not light up, press **TV POWER** on the remote control to turn the power on.



IMPORTANT:

IF THE UNIT DOES NOT POWER ON - UNPLUG THE AQUOS TELEVISION FROM THE OUTLET AND REPEAT THE INSTALLATION STEPS.

IF YOU STILL ENCOUNTER NO POWER, PLEASE CONTACT US AT 1-800-BE-SHARP.

Please refer to the BASIC ADJUSTMENT SETTINGS SECTION for EZ setup and basic channel setup functions and USING EXTERNAL EQUIPMENT SECTION for other device connections (DVD, VCR, AUDIO, etc) in your AQUOS operation manual.

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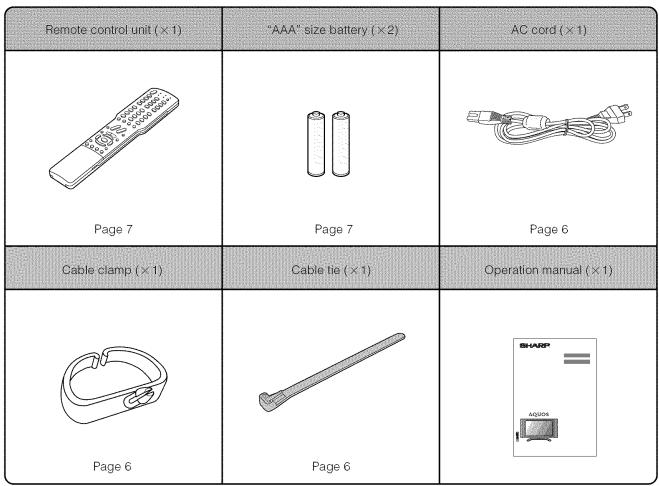
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- It is the intent of Sharp that this product be used in full compliance with the copyright laws of the United States and that prior permission be obtained from copyright owners whenever necessary.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited. U. S. Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 5,315,448; 6,381,747; and 6,516,132.
- This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as videoon-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

Make sure the following accessories are provided with the product.



NOTE)

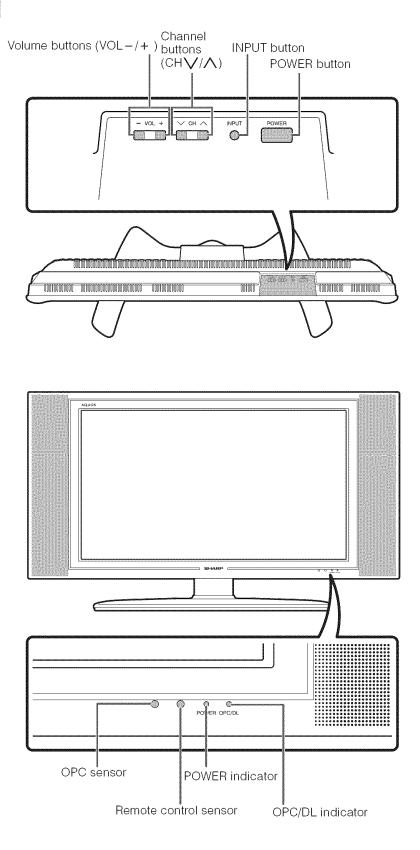
• Always use the AC cord supplied with the LCD-TV.

Trademarks

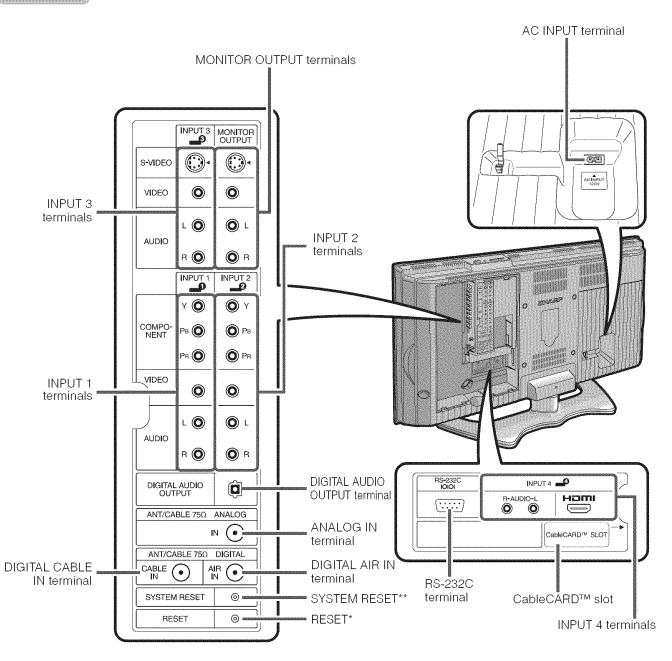
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."
- CableCARD[™] is a trademark of Cable Television Laboratories, Inc.
- Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
 BBE Mask2Base extends the base response of a given laudenacker and provides dash tight and musically accurate
- BBE Mach3Bass extends the bass response of a given loudspeaker and provides deep, tight and musically accurate bass frequencies.

Part names

TV (Front)



*OPC: Optical Picture Control (See page 25.) *DL: DownLoad TV (Rear)



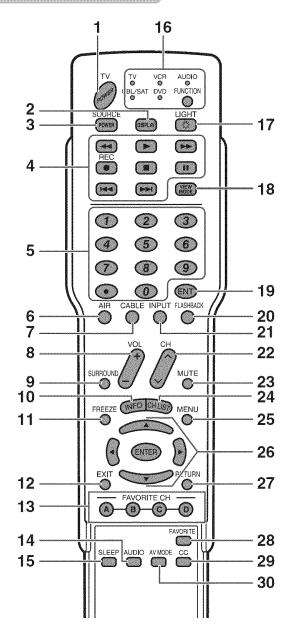
- * Press **RESET** if the TV cannot return to its original state after performing various operations.
 - AV MODE resets to DYNAMIC (Fixed)
 - TV channel returns to initial channel (Air:2ch, Cable:1 or 2ch)
 - · Audio setting initializes
 - Surround resets to off
- Image position initializes

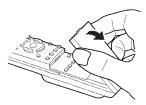
** Press SYSTEM RESET if the TV does not operate after starting up.

NOTE.

- Pressing **RESET** will not work if the TV is in standby mode.
- Pressing **RESET** will not delete channel preset or secret number. See page 41 for clearing the secret number when you know it. See page 58 for initializing to the factory preset values when you forget your secret number.

Remote control unit





- **1 TV POWER:** Switches the Liquid Crystal Television power on or enters Standby mode. (See page 14.)
- 2 **DISPLAY:** Displays the channel information.
- **3 SOURCE POWER:** Turns the power of the external equipment on and off.
- 4 **External equipment operational buttons:** Operates the external equipment.
- 5 0 9/• (DOT): Sets the channel. (See page 16.)
- 6 AIR: Receives air signal.
- 7 CABLE: Receives cable signal.
- 8 VOL +/-: Sets the volume. (See page 17.)
- 9 SURROUND: Selects Surround settings. (See page 17.)
- **10 INFO:** Displays the program information screen. (See page 46.)
- **11 FREEZE:** Sets the still image. Press again to return to normal screen. (See page 47.)
- 12 EXIT: Turns off the menu screen.
- 13 FAVORITE CH

A, **B**, **C**, **D**: Selects four preset favorite channels in four different categories. (See page 24 for details.) While watching, you can toggle the selected channels by pressing A, B, C and D.

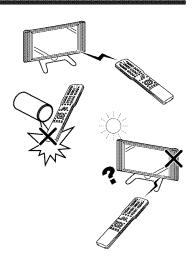
- **14 AUDIO:** Selects the MTS/SAP or the audio mode during multi-channel audio broadcasts. (See page 18.)
- 15 SLEEP: Sets the sleep timer. (See page 37.)
- **FUNCTION:** Switches the remote control for TV, CBL/SAT, VCR, DVD and AUDIO operation. Indicator lights up for the current mode. (See pages 47 to 50 for details.)
 * To enter the code registration mode, you need to press **FUNCTION** and **DISPLAY** at the same time.
- **17 LIGHT A:** When pressed all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in low-light situations.
- 18 VIEW MODE: Selects the screen size. (See page 35.)
- **19 ENT:** Enters a channel selection when choosing with the **0-9** buttons.
- 20 FLASHBACK: Returns to the previous channel or external input mode. (See page 16.)
- **21 INPUT:** Selects a Liquid Crystal Television input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4) (See pages 29 and 33.)
- 22 CH Λ/V : Selects the channel. (See page 16.)
- **23 MUTE:** Mutes the sound. (See page 17.)
- 24 CH LIST: Displays the channel list screen.
- 25 MENU: Displays the menu screen.
- 26 ▲/▼/ ◄/ ►/ENTER: Selects a desired item on the screen.
- 27 RETURN: Returns to the previous menu screen.
- 28 FAVORITE: Registers favorite channel. (See page 24.)
- **29 CC:** Displays captions when receiving closed-caption signals. (See page 38.)
- **30 AV MODE:** Selects an audio or video setting. (STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC) (See page 35.)

Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor on the TV. Objects between the remote control unit and the remote control sensor may prevent proper operation.

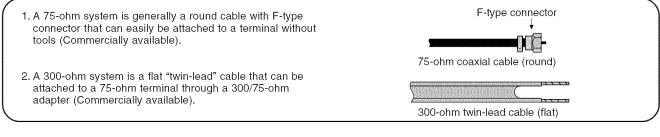
Cautions regarding remote control unit

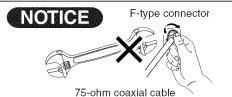
- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
 Do not install or place the remote control unit under direct sunlight.
- The heat may cause deformation of the remote control unit.
- The remote control unit may not work properly if the remote control sensor on the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the TV, or operate the remote control unit closer to the remote control sensor.



Antennas

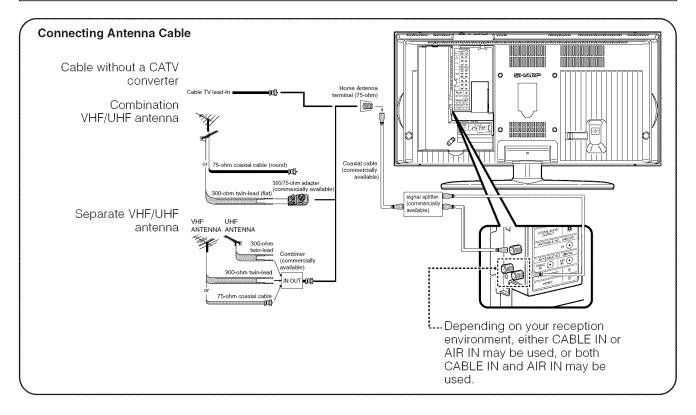
To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the TV set.





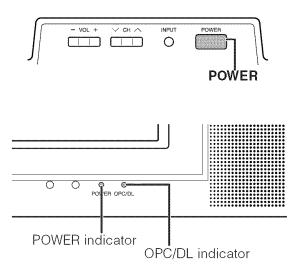
F-type connector should be finger-tightened only.

When connecting the RF cable to the TV set, do not tighten F-type connector with tools. If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.)

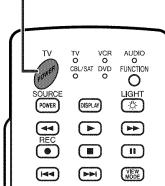


Watching TV

Simple operations for watching a TV program







TV status indicator (POWER)

ON	Lighting (Blue)
OFF/Standby	Lights off

Turning on the power

Press **POWER** on the TV or press **TV POWER** on the remote control.

• POWER indicator (Blue): The TV is on. (After a few seconds, a window appears with sound.)

🔨 NOTE]

• The initial setup starts when the TV powers on for the first time. If the TV has been turned on before, the EZ setup will not be invoked. See page 21 for performing EZ setup from the Setup menu.

Turning off the power

Press $\ensuremath{\textbf{POWER}}$ on the TV or press $\ensuremath{\textbf{TV}}\xspace$ POWER on the remote control.

- The TV enters standby mode and the image on the screen disappears.
- The POWER indicator on the TV gradually turns off.

(SNOTE)

• If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the power outlet.

(M)CAUTION

• Please do not unplug the AC cord when the OPC/DL indicator is red.

TV status indicator (OPC/DL)

"Off" is selected in OPC setting	Lights off
"On" or "On: Display" is selected in OPC setting	Lighting (Green)
CableCARD security module is downloading data	Lighting (Red)

*OPC: Optical Picture Control

*DL: DownLoad

Watching TV

Initial setup

When you turn on the TV for the first time, it will automatically memorize the broadcasting channels where you live. Perform the following steps before you press **TV POWER** on the remote control unit.

- 1. Insert the batteries into the remote control unit. (See page 7.)
- 2. Connect the antenna cable to the TV. (See page 13.)
- 3. Plug in the AC cord to the AC outlet. (See page 6.)



Language setting

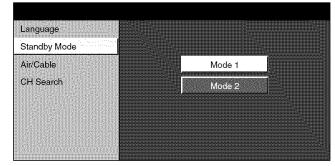
Select from among 3 languages: English, French and Spanish.

Press \blacktriangle/∇ to select the desired language listed on the screen, and then press **ENTER**.



Standby Mode setting

Select the standby setting. (See page 24.)



Mode 1: Starting TV is quick from standby.

Mode 2: Power consumption is small at the standby.

SNOTE .

• When the CableCARD security module is inserted, power consumption will be higher.



Antenna setting

Make sure what kind of connection is made with your TV.

Press **∢**/**▶** to select "Air", "Cable" for ANALOG, then press **▼** to move down.

Press ◀/▶ to select "Standard", "HRC" or "IRC" for DIGITAL (Cable).

Press ENTER to enter the setting.

• There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one that matches to your TV.

NOTE)

• DIGITAL(Cable) setting cannot be selected when a proper CableCARD security module is inserted.



Channel search Channel auto search makes the TV look for

all channels viewable in the set area.

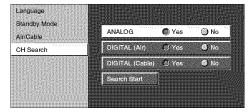
Press $\triangleleft/\triangleright$ to select "Yes" for ANALOG, then press \forall to move down.

Press ◀/▶ to select "Yes" for DIGITAL (Air), then press ▼ to move down.

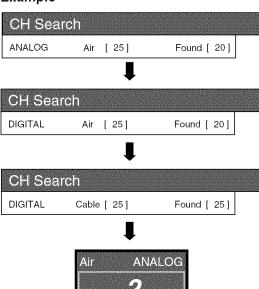
Press ◀/▶ to select "Yes" for DIGITAL (Cable), and press ▼ to move down.

Select "Search Start", and then press ENTER.

• This operation makes the TV search for both ANALOG, DIGITAL (Air) and DIGITAL (Cable) channels.



Example



NOTE

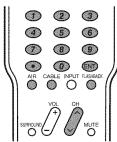
• Make sure what kind of connection is made with your TV.

MONG

• If no channel is found, make sure what kind of connection is made with your TV and try EZ setup again. (See page 21.)

Changing channels-Air/Cable

You can change channels in several ways by pressing **AIR** or **CABLE** to select the antenna and then following one of the methods below .



Method 1

Using $CH \land / V$ on the remote control unit or on the TV.

Method 2

- 1. Press **FLASHBACK** to switch to the previously tuned channel.
- 2. Press **FLASHBACK** again to switch back to the currently tuned channel.

NOTE.

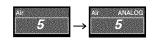
• FLASHBACK will not work if no channel has been changed after TV is turned on.

Method 3

Using remote control buttons $\textbf{0-9}, \bullet$ (DOT) to select channels for VHF/UHF/CATV/DIGITAL.

To select a 1 or 2-digit channel number (e. g., Channel 5):

Press $5 \rightarrow ENT$



NOTE

- When selecting a 1-digit channel number, it is not necessary to press **0** before the number.
- When you enter **0–9** only, channel selection will be made if there is no operation for a few seconds.

To select a 3-digit channel number (e. g., Channel 115):

Press $1 \rightarrow 1 \rightarrow 5$



To select a 4-digit channel number (e. g., Channel 22.1):

Press 2 \rightarrow 2 \rightarrow • (DOT) \rightarrow 1 \rightarrow ENT

Ar 2	\rightarrow	Air	\rightarrow	AC 22.	\rightarrow	au 22.1	\rightarrow	AH DIGITAL 22.1	
---------	---------------	-----	---------------	--------	---------------	------------	---------------	--------------------	--

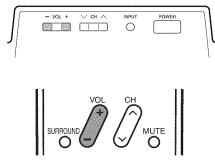
(NOTE)

- When you enter **0–9** only, channel selection will be made if there is no operation for a few seconds.
- If you push "0" by itself, nothing will happen.
- Complete the above steps within a few seconds.
- When you enter **0–9** and (DOT), channel selection will be made if there is no operation for a few seconds.

Changing volume/sound

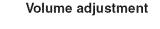
Changing the volume

You can change the volume on the TV or on the remote control unit.



Using VOL +/-

- To increase the volume, press VOL +.
- To decrease the volume, press VOL -.





SNOTE.

• VOL -/+ on the TV operates the same as VOL +/- on the remote control unit.

Audio status

	Output Select		
Output device	Fixed	Variable	
Speaker	Variable sound	Mute	
MONITOR OUT	Constant as specified	Variable sound	

* When "Output Select" is set to "Variable", the indicator on the screen changes as shown below.

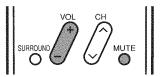


S NOTE

• See page 36 for details on the output select function.

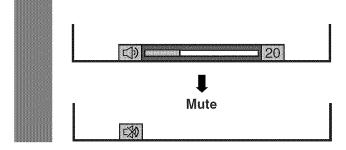
Using MUTE on the remote control unit

Mutes the current sound output.



Press **MUTE**.

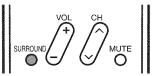
"to" will be displayed on the screen for 30 minutes, and the sound is silenced.



NOTE .

- Within 30 minutes of pressing MUTE, mute can be canceled by using one of the methods below.
 Mute will cancel if you press VOL -/+ or MUTE.
- Mute will be canceled after 30 minutes have passed. However, the TV will not suddenly output a loud sound as the volume level is set to 0 automatically.

Using SURROUND on the remote control unit



SURROUND produces Surround effect from the speakers. Each time you press **SURROUND**, the mode changes between On and Off.

Surround sound options

- On: Makes it possible to enjoy natural, realistic surround sound.
- Off: Outputs the normal sound.



NOTE)

• You can have the same settings by choosing "Surround" on the menu items. (See page 27.)

Setting MTS/SAP stereo mode

The TV has a feature that allows reception of sound other than the main audio for the program. This feature is called Multi-channel Television Sound (MTS). The TV with MTS can receive mono sound, stereo sound and Secondary Audio Programs (SAP). The SAP feature allows a TV station to broadcast other information, which could be audio in another language or something completely different like weather information.

You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.

Stereo broadcasts

View programs like live sporting events, shows and concerts in dynamic stereo sound.

SAP broadcasts

Receive TV broadcasts in either MAIN or SAP sound. MAIN sound: The normal program soundtrack (either in mono or stereo).

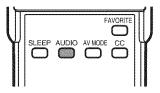
SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

If stereo sound is difficult to hear.

• Obtain a clearer sound by manually switching to fixed mono-sound mode.

NOTE)

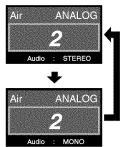
• MTS only operates while in TV mode.



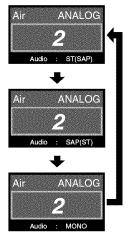
You can change MTS as shown below to match the television broadcast signal.

Examples: when receiving MTS and SAP

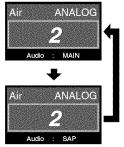
STEREO mode



STEREO + SAP mode



MAIN + SAP mode

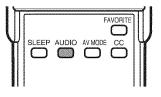


MONO mode



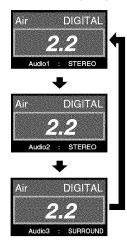
Setting Digital broadcasting audio mode

The types of audio transmitted in a digital broadcast include SURROUND as well as MONO and STEREO. In addition, it is possible for multiple audio tracks to accompany a single video track.



Press **AUDIO** to toggle between audio modes.

Examples: when receiving Digital broadcasting



Watching TV

Connecting Digital Cable Module

Digital Cable Module is called CableCARD[™]. By attaching the CableCARD security module, you can receive various digital services provided by your Cable Company. To obtain and use a CableCARD security module you need to first submit an application.

Please contact your cable company to discuss receiving an application.

🔨 NOTE)

- If your cable company does not have CableCARD security module available, you must connect to the cable-TV settop box via component video in order to receive HDTV programs. (See page 30.)
- When you change your address (See page 51.)
- About EAS (Emergency Alert System) (See page 51.)



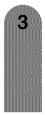
Turn on the power of the TV.



Connect the antenna cables to both **ANALOG IN** and **DIGITAL CABLE IN** terminals.

SNOTE)

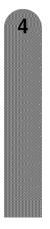
• Use a signal splitter (commercially available) for this type of connection. (See page 13.)



Insert the CableCARD security module (lower side facing right) into the **CableCARD** slot.

 When the CableCARD security module is inserted, a message appears, asking you to confirm the cable connections.

Press **RETURN** to cancel the message, or wait until the screen in step 4 appears.



A message will appear on the screen. (It might take a couple of minutes before the message appears.) Call the number on the screen and tell the operator the CableCARD security module ID and Host ID numbers displayed on the screen.

	930
CableCARD(tm) Pairing Str	500S
In order to start cable service	90
for this device, please conta	19
your cable provider	
1-688-555-2222	
1-900-000-2225	
CableCARD™ ID:	
7-561-034-449-009	
Host ID:	
0-100-331-784-018	
0-100-001-70-010	

🔨 NOTE

- Do not insert any PCMCIA card other than CableCARD security module into the CableCARD slot.
- Please do not pull the AC cord out while the CableCARD security module is inserted.
- After inserting the CableCARD security module, it may take several minutes before video output from the selected channel appears on screen.

If the above procedure does not work, please follow the following steps instead.



 $\mathbf{2}$

6

Press **MENU** and the MENU screen displays.

Press ◀/▶ to select "Digital Setup", ▲/▼ to select "CableCARD Menu", ▲/▼ to select "Pairing Information", and then press **ENTER**.

Conditional Access	
Pairing Information	
Diagnostic Screen	
ECM	

• The words "Pairing Information" may be replaced by a different expression depending on the manufacturer of the CableCARD security module.

A message will appear on the screen. Call the number on the screen and tell the operator the CableCARD security module ID and Host ID numbers displayed on the screen.



- If there is a white triangle at the right side of the screen, the screen is not showing the entire message. Press ▲/♥ on your remote control to display the rest of the message.
- When there is a "LINK" button on the screen, there is a link to the next page. Press **ENTER** to go to the next page.



Removing CableCARD security module

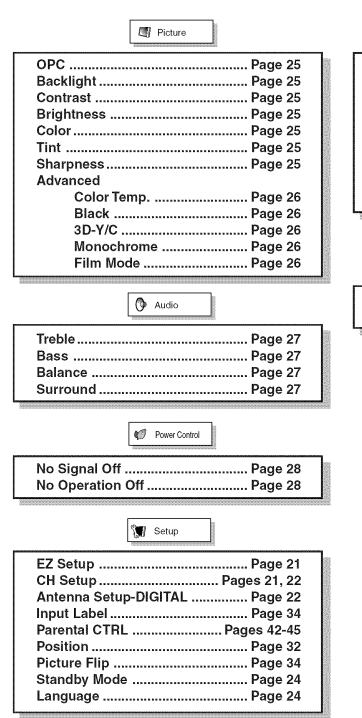
- 1) Turn on the power of the TV.
- ② Check that the CableCARD security module upgrade screen is not displayed. If it is displayed, wait until it disappears.
- ③ Remove the CableCARD security module.

Disconnecting the cable antenna

- 1) Turn on the power of the TV.
- Check that the CableCARD security module upgrade screen is not displayed. If it is displayed, wait until it disappears.
- ③ Disconnect the cable antenna.

Menu items

List of menu items to help you with operations



0ption

Audio Only	Page	36
Digital Noise Reduction	-	
HDMI Setup	Page	31
Input Select	Page	33
Output Select	Page	36
Quick Shoot	Page	36
Caption Setup	Page	39
Program Title Display	Page	37
Color System	Page	37

🗱 Digital Setup

CableCARD Menu	Page	19
Audio Setup	Page	28

EZ Setup

You can run EZ Setup again, even after setting up the preset channels.

Language setting

Select from among 3 languages: English, French and Spanish.



Press **MENU** and the MENU screen displays.



Press **∢**/**▶** to select "Setup".



Press \blacktriangle/∇ to select "EZ Setup", and then press **ENTER**.

• If you already set the Secret No., go to step 4. If not, skip to step 5.



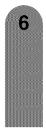
Input the 4-digit secret number by using 0 – 9.



Press \blacktriangle/∇ to select the desired language listed on the screen, and then press **ENTER**.

Antenna setting

Make sure what kind of connection is made with your TV when selecting "Air" or "Cable" for ANALOG and DIGITAL (Cable).

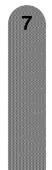


Press ◀/▶ to select "Air", "Cable", for ANALOG, then press ▼ to move down. Press ◀/▶ to select "Standard", "HRC", "IRC" for DIGITAL (Cable).

- Press **ENTER** to enter the setting.
- There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your TV.

Channel search

Channel auto search makes the TV look for all channels viewable in the set area.



Press **∢**/**▶** to select "Yes" for ANALOG, then press **▼** to move down.

Press **∢**/**▶** to select "Yes" for DIGITAL (Air), then press **▼** to move down.

Press **∢**/**▶** to select "Yes" for DIGITAL (Cable), and press **▼** to move down.

Select "Search Start", and then press **ENTER**.

• This operation makes the TV search for both ANALOG, DIGITAL (Air) and DIGITAL (Cable) channels.

NOTE NOTE

- If no channel is found, make sure what kind of connection is made with your TV and try EZ Setup again.
- Make sure what kind of connection is made with your TV.

Channel Setup

If initial setup does not memorize all the channels in your region, follow the instructions below to manually memorize the channels.

Antenna setting



Press **MENU** and the MENU screen displays.



Press **∢**/▶ to select "Setup".



Press ▲/▼ to select "CH Setup", and then press **ENTER**.

• If you already set the Secret No., input the 4digit secret number here. See page 40 for setting a secret number.



Press \blacktriangle/V to select "Air/Cable", and then press **ENTER**.



Press ◀/► to select "Air", "Cable", for ANALOG, then press ▼ to move down. Press ◀/► to select, "Standard", "HRC", "IRC" for DIGITAL (Cable). Press **ENTER** to enter the setting.

SNOTE)

- Make sure what kind of connection is made with your TV.
- There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your TV.

Channel search

Channel auto search makes the TV look for all channels viewable in the set area.



Press **MENU** and the MENU screen displays.



Press ◀/▶ to select "Setup".



Press ▲/▼ to select "CH Setup", and then press **ENTER**.

• If you already set the Secret No., input the 4digit secret number here. See page 40 for setting a secret number.



Press ▲/▼ to select "CH Search", and then press **ENTER**.



Press ◀/▶ to select "Yes" for ANALOG, then press ▼ to move down. Press ◀/▶ to select "Yes" for DIGITAL (Air), then press ▼ to move down. Press ◀/▶ to select "Yes" for DIGITAL (Cable), and press ▼ to move down. Select "Search Start", and then press ENTER.

NOTE NOTE

Channel memory setting



Press **MENU** and the MENU screen displays.



Press **∢**/**▶** to select "Setup".



Press \blacktriangle/ ∇ to select "CH Setup", and then press **ENTER**.

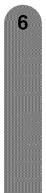
• If you already set the Secret No., input the 4digit secret number here. See page 40 for setting a secret number.



Press \blacktriangle/∇ to select "CH Memory", and then press **ENTER**.



Press ▲/▼ to select ANALOG, DIGITAL (Air), DIGITAL (Cable) and CableCARD, and then press **ENTER**.



Perform the following steps after confirming the type of antenna connection made with your TV, and the channel type selected in Step 5.

When viewing ANALOG broadcasts:

- Press ▲/♥, and then press ◀/▶ to select
 the channel to skip or not.
- (2) Press ▲/▼ to select "Skip", and then press

 (2) Press ▲/▼ to select "On" or "Off".

When viewing DIGITAL broadcasts:

- Press ▲/▼ to select the channel to skip or not, and then press ◄/► to select "On" or "Off".
- On: Skips channels. (Channel selection disabled using CHA/V.)
- Off: Does not skip channels. (Channel selection enabled using CH//V.)

🔇 NOTE)

• Make sure what kind of connection is made with your TV.

Antenna Setup – DIGITAL

In order to receive digital air broadcasts, you need a digital broadcast antenna. You can confirm the antenna configuration through the "Antenna Setup - DIGITAL" screen.

If necessary, adjust the direction of the antenna to obtain the maximum signal strength.

Signal Strength



Press MENU and the MENU screen displays.



Press **∢**/**▶** to select "Setup".



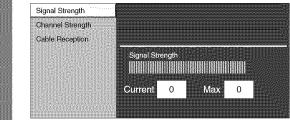
14

Press ▲/▼ to select "Antenna Setup - DIGITAL", and then press **ENTER**.

• If you already set the Secret No., input the 4digit secret number here. See page 40 for setting a secret number.

Press \blacktriangle/ ∇ to select "Signal Strength".

• The signal strength of the DIGITAL (Air) antenna is displayed. The signal information is based on the current channel.



Channel Strength

• The channel signal strength can also be checked separately.



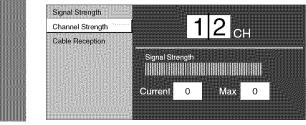
Repeat steps 1 to 3 in Signal Strength in **Antenna Setup - DIGITAL**.



Press \blacktriangle / \forall to select "Channel Strength", and then press **ENTER**.

Input the 2-digit channel number to check the signal strength of the selected channel.

• Make sure the appropriate signal strength of each channel received is obtained.



NOTE)

• This function is available for DIGITAL (Air) only.

Cable Reception

 This menu provides useful technical information for when the CableCARD security module is installed by cable service personnel. The following information may vary depending on your cable service provider.



Press MENU and the MENU screen displays.



Press **∢**/**▶** to select "Setup".



Press \blacktriangle/Ψ to select "Antenna Setup - DIGITAL", and then press **ENTER**.

• If you already set the Secret No., input the 4digit secret number here. See page 40 for setting a secret number.

Press ▲/▼ to select "Cable Reception".

Technical information displays.

FAT (Forward Applications Transport) information:

- FAT denotes a TV program channel that your digital cable service provides. Digital cable reception information such as signal lock status and frequency is provided.
- Status: When the TV is tuned to a program channel, it shows "LOCK". Otherwise "UNLOCK" is displayed.
- Modulation: Shows modulation system of the digital cable service either in 64QAM or in 256QAM.

Frequency: Shows the signal frequency.

Strength: Shows the strength of the reception signal. The strength value varies from 0 to 99. To enjoy a clear picture without noise, the value should exceed 60.

FDC (Forward Data Channel) information:

- FDC denotes a data channel for CableCARD security module operation. When the CableCARD security module is inserted, data channel reception information such as signal lock status and frequency is displayed.
- Status: When the TV is tuned to a data channel, it shows "LOCK". Otherwise "UNLOCK" is displayed.
- Rate: Shows the data channel transmission rate.
- Frequency: Shows the data channel frequency.
- Strength: Shows the strength of the reception signal. The strength value varies from 0 to 99. To ensure stable operation, the value should exceed 60.

Standby Mode

Standby Mode may be set to either start the TV quickly from standby or conserve energy while on standby.



Press **MENU** and the MENU screen displays.



Press ◀/▶ to select "Setup".



Press ▲/▼ to select "Standby Mode", and then press **ENTER**.



Press ▲/▼ to select "Mode1" or "Mode2", and then press **ENTER**.

Selected item	Description
Mode1	Starting TV is quick from standby.
Mode2	Power consumption is small at the standby.

Favorite channel setting

This function allows you to program 4 favorite channels, in 4 different categories. By setting the favorite channels in advance, you can select your favorite channels easily.



Select the channel you want to register as a favorite channel.



Press FAVORITE.



Press ▲/▼ to select "Register", and then press ENTER.



Press $\mathbf{A}/\mathbf{V}/\mathbf{A}/\mathbf{F}$ to select the position in the

area, and then press ENTER to register.

A	e.	D
ANALOG 3		

Deleting favorite channel



Press **FAVORITE** and the favorite channel screen displays.



Press \blacktriangle / \triangledown to select "1 Data Clear", and then press **ENTER**.

3	Press ▲/ want to d				you
	ANALOG 3	B ANALOG 18	C D-Air 10.1	D	



Press $\triangleleft/\triangleright$ to select "Yes", and then press **ENTER**.

	Yes		Vo
A	12 C		D
ANALOG			
<u></u>			
		10.1	

NOTE .

• You can delete all the favorite channels by selecting "All Data Clear" in step 2 in **Deleting favorite channel**.

Language setting

You can also select a language from the Setup menu. Select from among 3 languages: English, French and Spanish.



Press MENU and the MENU screen displays.



Press **∢**/**▶** to select "Setup".



Press ▲/▼ to select "Language", and then press **ENTER**.



Press \blacktriangle/Ψ to select the desired language listed on the screen, and then press **ENTER**.

Picture adjustments

Adjusts the picture to your preference with the following picture settings.



Press **MENU** and the MENU screen displays.



Press **∢**/**▶** to select "Picture".



Press \blacktriangle/Ψ to select a specific adjustment item.



Press **◄/**▶ to adjust the item to your desired position.

NOTE

 For resetting all adjustment items to factory preset values, press ▲/♥ to select "Reset", press ENTER, press ◀/▶ to select "Yes", and then press ENTER.

MENU (P	icture]	
Dicture Picture	<u> </u>	Audio
OPC	🔘 Off 🚭 On	🕘 On : Display
Backlight	[+16] –16	-
Contrast	[+30] 0 2	-
Brightness	[0] —30	+30
Color	[0] -30	 +30
Tint	[0] -30]	1 +30
Sharpness	[0] —10	- +10
Advanced		
Reset		

Selected item	dutton	▶button	
Backlight	The screen dims	The screen brightens	
Contrast	For less contrast	For more contrast	
Brightness	For less brightness	For more brightness	
Color	For less color intensity	For more color intensity	
Tint	Skin tones become purplish	Skin tones become greenish	
Sharpness	For less sharpness	For more sharpness	

(NOTE)

• Select "Advanced" and then press **ENTER** to set "Color Temp.", "Black", "3D-Y/C", "Monochrome" or "Film Mode". See page 26.

OPC setting

Automatically adjusts the brightness of the screen.



Press **MENU** and the MENU screen displays.



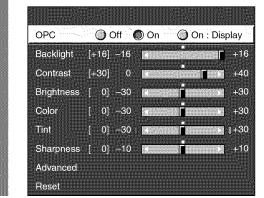
Press **∢**/**▶** to select "Picture".



4

Press ▲/▼ to select "OPC".

Press ◀/▶ to select "On" or "On: Display".



Selected item	Description
Off	The brightness is fixed at the value set in "Backlight".
On Automatically adjusts	
On: Display	Displays the OPC effect on the screen while adjusting the brightness of the screen.

SNOTE.

- When set to "On", the OPC senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.
- When set to "On: Display", OPC effect displays on the screen while OPC is adjusting the screen brightness.

Advanced picture adjustments

This TV provides various advanced functions for optimizing the picture quality.



Press **MENU** and the MENU screen displays.



Press ◀/▶ to select "Picture".



Press ▲/▼ to select "Advanced", and then press ENTER.

Press ▲/▼ to select a specific adjustment item.

 You can select "Color Temp.", "Black", "3D-Y/C", "Monochrome" or "Film Mode".



Press \mathbf{A}/\mathbf{V} (or \mathbf{A}/\mathbf{b}) to select the desired parameter.

• See the table for the selectable parameters.

Color temperature

For a better white balance, use color temperature correction.

Selected item	Description
High	White with Bluish tone
Mid-High	
Middle	Î
Mid-Low	•
Low	White with Reddish tone

Black

For easier viewing, change the viewing depth by selecting a level for automatically adjusting the dark portion of an image.

Selected item	Description
Off	No adjustment
On	For high detail in black portions

3D-Y/C

Provides high quality images with minimal dot crawl and cross color noise.

Selected item	Description
Standard	Normal adjustment
Fast	For movie image
Slow	For still image

NOTE)

• 3D-Y/C is available for input signal from Composite Video and ANALOG IN.

Monochrome

For viewing a video in monochrome.

Selected item	Description
Off	Normal color
On	For viewing in monochrome

Film Mode (3:2 pull-down)

Automatically detects a film-based source (originally encoded at 24 frames/second), analyzes it then recreates each still film frame for high-definition picture quality.

Selected item	Description
Off	Normal viewing mode
On	Detects, analyzes, converts film source

Sound adjustment

You can adjust the sound quality to your preference with the following settings.



Press **MENU** and the MENU screen displays.



Press **∢**/**▶** to select "Audio".

					-
Treble	[0]	-15			+15
Bass	[0]	-15	1	Ē	+15
Balance	[0]	Ł		Γ	R
Surround					[Off]



Press \blacktriangle/Ψ to select a specific adjustment item.



Press $\triangleleft/\triangleright$ to adjust the item to your desired position.

Selected item	dutton	▶ button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decrease audio from the right speaker	Decrease audio from the left speaker

(NOTE)

- Audio menu is grayed out when Output Select is set to "Variable".
- For resetting all adjustment items to factory preset values, press ▲/♥ to select "Reset", press ENTER, press ◄/► to select "Yes", and then press ENTER.

Surround

Surround effects can be set using the "Audio" menu.



Press **MENU** and the MENU screen displays.



3

Press **∢**/**▶** to select "Audio".

Press \blacktriangle/Ψ to select "Surround", and then press **ENTER**.

Treble	[0]	-15		+15
Bass	[0]	-15		+1
Balance	[0]	L		R



Press **∢**/▶ to select "On", and then press **ENTER**.

🔨 NOTE

- You can choose Surround by pressing **SURROUND** on the remote control unit.
- Audio menu is grayed out when Output Select is set to "Variable".
- For some discs, setup may be required on your DVD. In this case, please refer to the operation manual of your DVD player.

Power Control

Power control setting allows you to save energy.

No signal off

When set to "Enable", the power will automatically shut down if no signal inputs for 15 minutes.



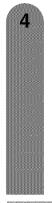
Press MENU and the MENU screen displays.



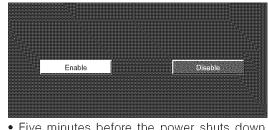
Press **∢**/**▶** to select "Power Control".



Press ▲/▼ to select "No Signal Off", and then press **ENTER**.



Press **∢**/**▶** to select "Enable", and then press **ENTER**.



• Five minutes before the power shuts down, remaining time displays every minute.

🔨 NOTE

- "Disable" is factory preset value.
- When a TV program finishes, this function may not operate.

No operation off

When set to "Enable", the power will automatically shut down if there is no operation for 3 hours.



Repeat steps 1 and 2 in **No signal off**.



Press \blacktriangle/Ψ to select "No Operation Off", and then press **ENTER**.



Press **∢**/**▶** to select "Enable", and then press **ENTER**.

• Five minutes before the power shuts down, remaining time displays every minute.

🔨 NOTE

• "Disable" is factory preset value.

Digital Setup

This setting allows you to optimize the settings of Digital broadcasting.

Audio Setup

You can output digital audio to an AV amplifier or similar device whose DIGITAL AUDIO INPUT terminal is connected to the DIGITAL AUDIO OUTPUT terminal on the TV (see page 30). Please select an audio output format compatible with the audio format of the program you are watching and the equipment connected.



Press $\ensuremath{\textbf{MENU}}$ and the MENU screen displays.



Press **∢**/**▶** to select "Digital Setup".



Press $\blacktriangle/ \mathbf{V}$ to select "Audio Setup", and then press **ENTER**.



Press ▲/▼ to select "PCM" or "Dolby Digital", and then press **ENTER**.

PCM Dolby Digital

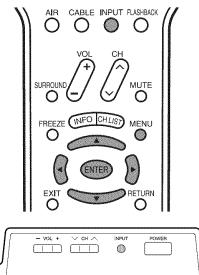
Selected item	Description
РСМ	The optical output terminal outputs audio signal by PCM form. If your digital audio system does not support Dolby Digital, select "PCM".
Dolby Digital	The optical output terminal outputs audio signal by Dolby Digital form. It reproduces sound from surround program of digital.

Using external equipment

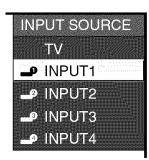
You can connect many types of external equipment to your TV, like a DVD player, VCR, Digital TV tuner, HDMI equipment, game console and camcorder. To view external source images, select the input source from **INPUT** on the remote control unit or on the TV.

Displaying an external equipment image

Explanation here is for the setting when connecting DVD to INPUT1 terminal.



To watch a DVD image, select "INPUT1" from "INPUT SOURCE" menu using **INPUT** on the remote control unit or on the TV. (See page 33.)



NOTE

• If the image does not come in clearly, you may need to change the input signal type setting on the "Input Select" menu.

Selecting the INPUT signal

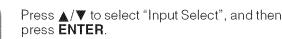


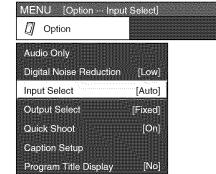
Press **MENU** and the MENU screen displays.



e

Press **∢/**▶ to select "Option".







Select the desired signal type. For INPUT1 signal



The setting is stored and can be selected on the "INPUT SOURCE" menu.

• To protect all equipment, always turn off the TV before connecting to a DVD player, VCR, Digital TV tuner, HDMI equipment, game console, camcorder or other external equipment.

NOTE NOTE

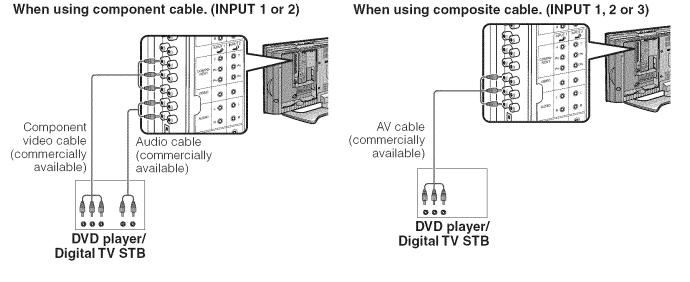
- See pages 30 to 31 for external equipment connection.
- Please refer to the relevant operation manual (DVD player, etc.) carefully before making connections.
- Each time INPUT is pressed, the input source toggles.
- Refer to your external equipment operation manual for the signal type.

Connecting a DVD player or a Digital TV STB (Air or Cable)

You can use the INPUT 1, INPUT 2 or INPUT 3 terminals when connecting to a DVD player, a Digital TV STB (Air or Cable) and other audiovisual equipment.

NOTE

• If your cable-TV company has CableCARD security module available, you can also use the CableCARD security module to receive HDTV programs. (See page 19.)



NOTE

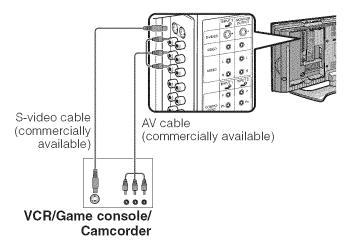
• See page 31 for connecting a DVD player or a Digital TV STB to HDMI terminal.

Connecting a VCR, game console or camcorder

A VCR, game console, camcorder and some other audiovisual equipment are conveniently connected using the INPUT 1 to 3 terminals.

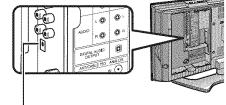
NOTE

• The S-video terminal has priority over the video terminals. (INPUT 3 only)



Using Digital Audio Output

It is possible to output audio through the DIGITAL AUDIO OUTPUT terminal. (See page 28 for details.) PCM audio outputs from the terminal.

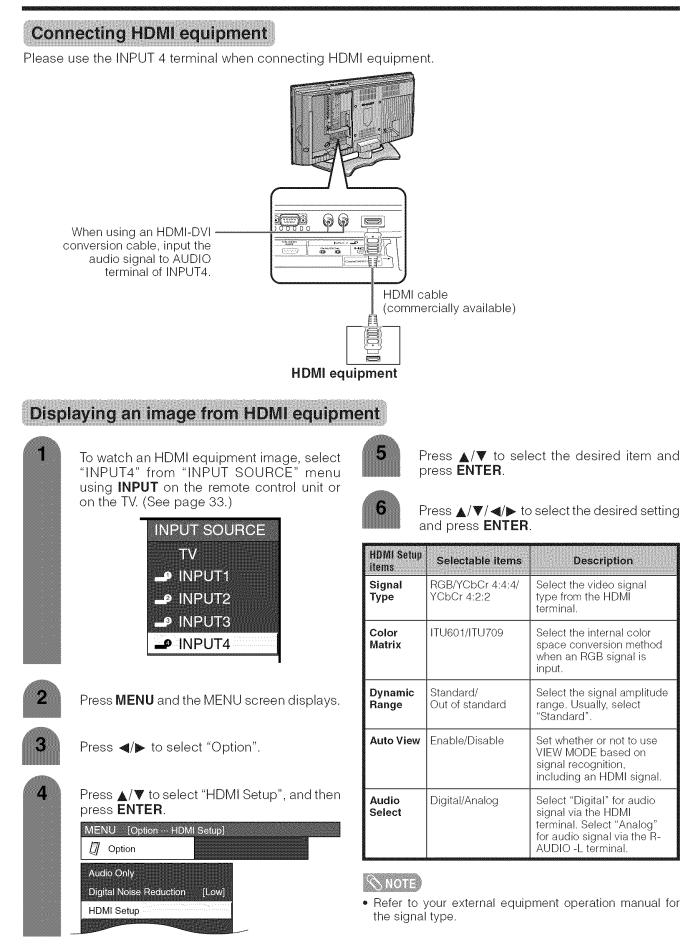


Optical fiber cable

To optical digital input of external audio devices

NOTE NOTE

• When attempting to record copy protected material on a VCR or other recording device, the copy protection will activate and the protected material will not be recorded correctly. In addition, attempting to display copy protected material on a monitor connected via a VCR, whether for the purpose of viewing or not, will cause an inferior quality picture to be displayed. This is not a fault of the equipment. Please view copy protected material by connecting the product directly to the monitor.



Useful adjustment settings

Image position

For adjusting a picture's horizontal and vertical position.



Press **MENU** and the MENU screen displays.



Press **∢/**▶ to select "Setup".

-10

[0]



Press \blacktriangle/V to select "Position", and then press **ENTER**.

+10



H-Pos.

Press ▲/▼ to select "H-Pos." or "V-Pos.".

 V-Pos.
 0
 -20

 Resol
 Person

 Selected item
 Description

Selected Item	Description
H-Pos.	Centers the image by moving it to the left or right.
V-Pos.	Centers the image by moving it up or down.



Press $\triangleleft/\triangleright$ to adjust the item to your desired position.

🔨 NOTE

- For resetting all adjustment items to the factory preset values, press ▲/♥ to select "Reset", and then press **ENTER**.
- Adjustments are stored separately according to input source.
- You can easily move the image position as shown on this page, but when the power is switched off the image will return to the previously memorized position.

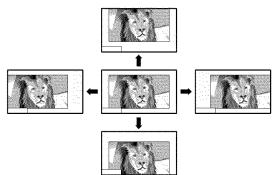
Moving the picture on the screen

You can move the picture around on the screen.

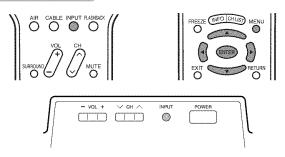
Press A/V/A/A to move an image on the screen to the desired position. Press **ENTER** to return to the initial image position.

S NOTE

- While pressing ▲/▼/◀/▶, an on-screen image, "Adjusting Position" displays to the desired position.
- This setting cannot be stored. Once the TV shuts down or enters standby mode, the setting is erased. To move the picture around the screen again, you must perform the above procedure again.
- The image position setting using the steps on this page can be stored. Select either according to your objectives.
- "TV", "INPUT1", "INPUT2", "INPUT3" and "INPUT4" can each adjust the image position setting on this page. The same for view modes.
- Even when the image fills the screen, its position can be adjusted with this function.
- Press ENTER to reset the image to original positions.



Input Select



Selecting input source

Use this menu to select the input source.



Press INPUT.

• A list of selectable sources appears.



Press **INPUT** again to select the input source.

- An image from the selected source automatically displays.
- You can also select the input source by pressing ▲/▼.
- If the corresponding input is not plugged in, you cannot change the input. Be sure to connect the equipment beforehand.

Selecting input signal type

For setting the signal type of external equipment connected to INPUT 1 and INPUT 2 terminals.



Press **MENU** and the MENU screen displays.



Press **∢**/**▶** to select "Option".



Press \blacktriangle / \blacksquare to select "Input Select", and then press **ENTER**.



Press \blacktriangle/Ψ to select a signal type you want to set, and then press **ENTER**.

• If the selected signal type is incorrect, images are not displayed or displayed without any color.

NOTE.

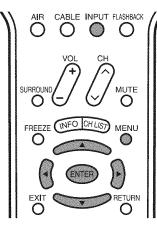
- If you set INPUT1 and INPUT2 to Auto, the TV will automatically select the input signal.
- Check the operation manual of the external equipment for the signal type.
- Setting INPUT 1 and INPUT 2 signal selection to "Auto" when other equipment is connected will result in the following connectivity priority.

INPUT 1 and INPUT 2 1. COMPONENT VIDEO 2. VIDEO

Useful adjustment settings

Input Label

Lets you set the input terminal displayed using the INPUT SOURCE menu or channel display.





Press **INPUT** to select the desired input mode.



Press **MENU** and the MENU screen displays.



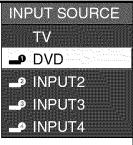
Press **∢**/**▶** to select "Setup".



Press \blacktriangle / ∇ to select "Input Label", and then press **ENTER**.



Press $\blacktriangle/\forall/\triangleleft/\triangleright$ to select the new name for the input mode, and then press **ENTER**.



(Example)

```
NOTE
```

• You cannot change labels if the INPUT SOURCE is TV.

Picture Flip

You can set the orientation of the picture.



Repeat steps 1 and 2 in Input Label.



Press ▲/▼ to select "Picture Flip", and then press **ENTER**.

3

Press \blacktriangle/Ψ to select the desired mode, and then press **ENTER**.

[Standard]: normal image.



[Mirror]: mirror image.



[Upside Down]: upside down image.

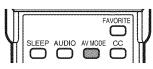


[Rotate]: rotated image.



AV MODE

AV MODE gives you six viewing options to choose from to best match environment of the TV, which can vary due to factors like room brightness, type of program watched or the type of image input from external equipment.



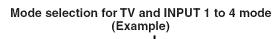


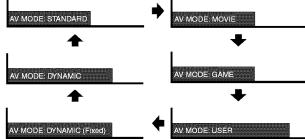
Press AV MODE.

• Present AV MODE displays.



Press **AV MODE** again before the mode displayed on the screen disappears. • The mode changes as shown below.





Selected item	Description
STANDARD	For a highly defined image in a normally bright room
MOVIE	For a movie
GAME	Lowers image brightness for easier viewing
USER	Allows the user to customize settings as desired. You can set the mode for each input source.
DYNAMIC (Fixed)	Changing image and sound settings to factory preset values. No adjustments are allowed.
DYNAMIC	For a clear-cut image emphasizing high contrast for sports viewing

NOTE

• You can select a different AV MODE item for each input mode. (For example, select STANDARD for TV input and DYNAMIC for VIDEO input.)

View mode for 4:3 Programs

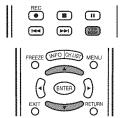
Press VIEW MODE.

- The View mode menu displays.
- The menu lists the view mode options selectable for the type of video signal currently received.

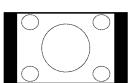


Press **VIEW MODE** or ▲/▼ while the View mode menu is still on the screen.

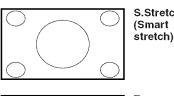
• You can sequentially select a view mode that has its own aspect ratio.





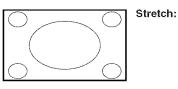


Side Bar: Suitable for viewing conventional 4:3 programs in their normal format.



S.Stretch: Suitable for stretching 4:3 programs to fill the screen.





This mode is useful for 1.78:1 DVDs. When viewing 1.85:1 DVDs, stretch mode will still show very thin black bands at the top and bottom of the screen.

View mode for HD Programs

The following modes are available for HD programs. **S.Stretch:** Suitable for stretching 4:3 programs to fill the screen. **stretch**

- **Zoom:** Suitable for viewing wide-screen 2.35:1 aspectratio programs in full screen.
- Stretch: Suitable for viewing wide-screen 1.78:1 aspectratio programs. When viewing 1.85:1 programs, stretch mode will still show very thin black bands at the top and bottom of the screen.
- **Dot by Dot:** Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

NOTE.

• When using Dot by Dot, it is possible to see noise or bars around different outer portions of the screen. Please change view mode to correct this.

Digital Noise Reduction

Produces a clearer video image.



Press **MENU** and the MENU screen displays.

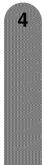


Press **∢**/**▶** to select "Option".



Press ▲/▼ to select "Digital Noise Reduction", and then press **ENTER**.

Press \blacktriangle/Ψ to select the desired level, and



then press ENT	ER.	
	Off	
	High	
	Low	

Audio Only

When listening to music from a music program, you can set the Liquid Crystal display off and enjoy audio only.



Repeat steps 1 and 2 in **Digital Noise Reduction**.



Press ▲/▼ to select "Audio Only", and then press **ENTER**.



Press **◄**/**▶** to select "On", and then press **ENTER**.

Selected item	Description
On	Audio is output without screen image.
Off	Both screen images and audio are output.

Output Select

Allows you to select what controls the audio output.



Repeat steps 1 and 2 in **Digital Noise** Reduction.



Press \blacktriangle/ ∇ to select "Output Select", and then press **ENTER**.



Press **∢**/**▶** to select "Fixed" or "Variable", and then press **ENTER**.

Selected item	Description
Fixed	 Sound via speaker is adjusted with VOL +/- on the remote control unit or VOL -/ + on the TV. Sound via the MONITOR OUTPUT terminal is not adjustable and constantly outputs.
Variable	 Sound via the MONITOR OUTPUT terminal is adjusted with VOL +/- on the remote control unit or VOL -/+ on the TV. Sound via speaker is muted.

Quick Shoot

Use Quick Shoot to view fast-action video more clearly.



Repeat steps 1 and 2 in **Digital Noise Reduction**.



Press $\blacktriangle/ \blacksquare$ to select "Quick Shoot", and then press **ENTER**.



Press **∢**/▶ to select "On", and then press **ENTER**.

Note:

• If video noise occurs, turn the function "Off".

Color System

Select the optimum color systems to receive. (Auto, NTSC, PAL-M, PAL-N)



Press **MENU** and the MENU screen displays.



Press **∢/**▶ to select "Option".



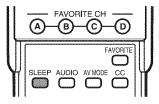
Press ▲/▼ to select "Color System", and then press **ENTER**.



Press ▲/▼ to select a compatible video signal system of your equipment, and then press **ENTER**.

Sleep Timer

Allows you to set a time when the TV automatically switches to standby.





Press SLEEP.

• Remaining time displays when sleep timer has been set.

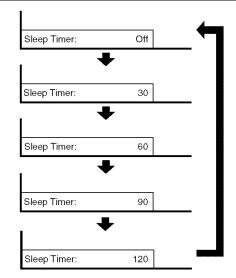
30





Each time you press **SLEEP**, the remaining time switches as shown below.

- When set, the time automatically starts counting down.
- If you want to adjust the sleep timer, you can press **SLEEP** twice then change the time setting.
- Five minutes before time expires, the remaining time displays each minute.



NOTE.

- Select "Off" by pressing SLEEP to cancel the sleep timer.
- The TV will enter the standby mode when the remaining time reaches zero.

Program Title Display

Select the CH display when changing channels for digital broadcasting.



Press **MENU** and the MENU screen displays.



Press **∢/**▶ to select "Option".



Press \blacktriangle / \blacksquare to select "Program Title Display", and then press **ENTER**.

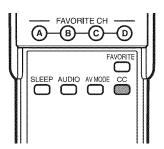


Press **◄/▶** to select "Yes" or "No", and then press **ENTER**.

Selected item	Description
Yes	"Program Info." displays
No	"Program Info." does not display

Closed Captions and Digital Closed Captions

- Your TV is equipped with an internal Closed Caption decoder. It allows you to view conversations, narration and sound effects as subtitles on your TV. Closed Captions are available on some TV programs, and on some VHS home video tapes, at the election of the program provider.
- Digital Closed Caption service is a new caption service available only on digital TV programs (also at the election of the service provider). It is a more flexible system than the original Closed Caption system, because it allows a variety of caption sizes and font styles. When the Digital Closed Caption service is in use, it will be indicated by appearance of a 3-letter abbreviation that also indicates the language of the Digital Closed Captions: ENG (English) or SPA (Spanish) or FRA (French), or other language codes.
- Not all programs and VHS videotapes offer closed caption. Please look for the "**(CC)**" symbol to ensure that captions will be shown.
- In the Closed Caption system, there can be more than one caption service provided. Each is identified by its own number. The "CC1" and "CC2" services display subtitles of TV programs superimposed over the program's picture.
- In the Closed Caption system, the "Text1" or "Text2" services display text that is unrelated to the program being viewed (e.g., weather or news). These services are also superimposed over the program currently being viewed.



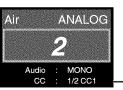
Press CC.

2

• This will present the Closed Caption information display.

Press **CC** while the Closed Caption information is still on the screen.

• Press repeatedly until you select a closed caption service which you prefer.



Closed Caption information

• Depending on the number of caption services in the signal being received, you will see information such as 1/2 or 1/4 displayed. 1/2 means "the first of two services". Example:

If a program has three services (Digital CC(ENG), CC1 and Text1), the closed caption display will toggle in this sequence:

1/3 ENG \rightarrow 2/3 CC1 \rightarrow 3/3 Text1 \rightarrow OFF

• The CC button keeps a record of the last service selected in its memory.

If the last closed caption mode (e.g. 1/3ENG) you selected is not available for the next program, or on another channel, the closed caption service that is available is automatically selected, and this service appears in parentheses, e.g. 1/3(CC1).

Closed caption services that appear in parentheses will not be recorded in the CC button's memory as your last selected service. Only services that you have selected with the CC button are recorded.

Examples:

In a case where there are two closed caption services provided, for instance, Digital CC(ENG) and CC1), and Digital CC(ENG) is displayed as your current selection, if Digital CC(ENG) is not broadcast for the next program, the other closed caption service, CC1, will be displayed in parentheses.

A closed caption service appears in parentheses because the service you selected is not available and a different service is displayed on your screen. "1/1(CC1)" is displayed instead of "1/2/ ENG".

NOTE.

- See page 39 for detailed closed caption settings.
- When the program contains no closed caption, "--" displays in the closed caption information.
- If the language code, e.g. "ENG", is not found on Digital TV programs, "--" will be shown.
- Four kinds of closed caption service (CC1, CC2, Text1, Text2) are potentially available, but a broadcast may contain none, or only some of these services, at the election of the program provider.

Caption Setup

This function allows you to adjust the closed caption screen appearance to suit your preference.



Press MENU and the MENU screen displays.



Press **∢**/**▶** to select "Option".

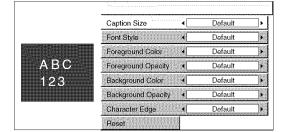


Press \blacktriangle/∇ to select "Caption Setup", and then press **ENTER**.



Press ▲/▼ to select a specific adjustment item.

- You can choose 7 items here; they are,
 - (1) "Caption Size",
 - 2 "Font Style",
 - (3) "Foreground Color",
 - (4) "Foreground Opacity",
 - (5) "Background Color",
 - 6 "Background Opacity" and
 - ⑦ "Character Edge".



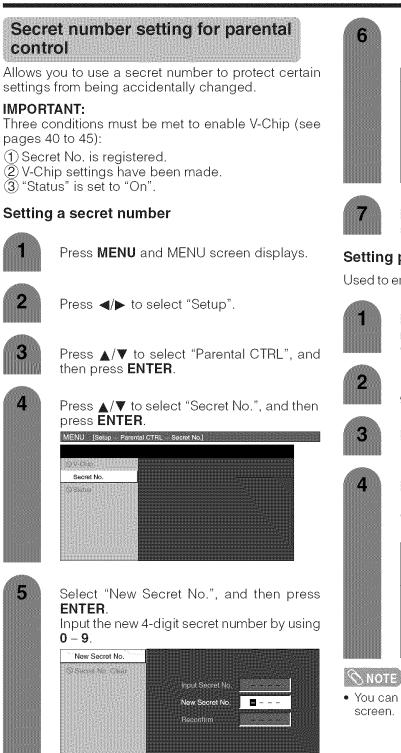
Press \triangleleft /> to select the desired parameter.

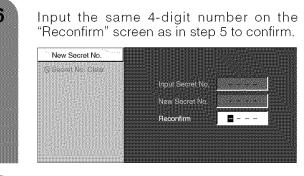
NOTE

- For resetting all adjustment items to the factory preset values, press ▲/♥ to select "Reset", and then press ENTER.
- Each default value is specified by broadcasting station where available.

Selectable items available for "Font Style".

Selected item	Description	
Default	The font specified by broadcasting station or default font.	
Туре 0	Proportional font used in the MENU screen.	
Type 1	Monospaced with serifs.	
Туре 2	Proportionally spaced with serifs.	
Туре 3	Monospaced without serifs.	
Туре 4	Proportionally spaced without serifs.	
Туре 5	Casual font type.	
Туре 6	Cursive font type.	
Туре 7	Small capitals.	





Press **RETURN** to start configuring V-Chip settings. (See pages 43 and 45 for details.)

Setting parental control status

Used to enable or disable the parental control function.

Repeat steps 1 to 3 in **Setting a secret number**.

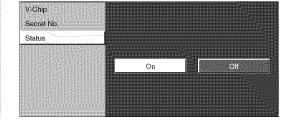
• Secret number setting menu displays.

Input the 4-digit secret number by using **0** – **9**.

Press \blacktriangle / \triangledown to select "Status", and then press **ENTER**.

Press **∢**/**▶** to select "On" or "Off", and then press **ENTER**.

 Select "On" to enable and "Off" to disable Parental CTRL.



• You can skip step 1 and 2 above while in Parental CTRL screen.

Changing the secret number

using 0 - 9.

New Secret No Secret No. Clear

MENU [Setup - Parental CTRL - Secret No.]

Allows you to change your current secret number.



Repeat steps 1 to 3 in Setting a secret number. · Secret number setting menu displays.



Input the 4-digit secret number by using 0 -9



Press ▲/▼ to select "Secret No.", and then press ENTER.



Press ▲/▼ to select "New Secret No.", and then press ENTER.

Input the old 4-digit number you have set

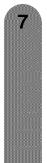
. .





Input the new 4-digit number using 0 - 9.

New Secret No.	
Secret No. Clear	
	input Secret No.
	New Secret No.
	Reconfirm



Input the same 4-digit number on the "Reconfirm" screen as in step 6 to confirm.

New Secret No.	
Secret No. Clear	
	Input Secret No:
	New Secret No.
	Reconfirm

Clearing the secret number

Allows you to clear your secret number.



Repeat steps 1 to 3 in Setting a secret number.

Secret number setting menu displays.



Input the 4-digit secret number by using 0 -9.



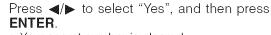
Press ▲/▼ to select "Secret No.", and then press ENTER.



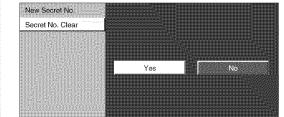
5

Press ▲/▼ to select "Secret No. Clear", and then press ENTER.





Your secret number is cleared.



SNOTE.

- See page 40 for re-registering with a new secret number after being cleared.
- As a precautionary measure, make a note of your secret number and keep it in a familiar place. If you lose or forget your secret number, initialize the Liquid Crystal Television to return all settings except for the TV channel settings to factory preset values. (See page 58.)
- If the secret number is cleared the Status setting automatically sets to "Off". "V-Chip" and "Status" will not be selectable from the menu.

Parental control (setting V-CHIP level)

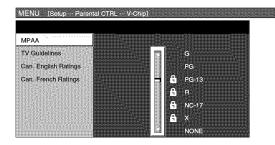
V-CHIP is an electronic filtering device built into your TV. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you activate the V-CHIP feature in your Liquid Crystal Television.

"V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 40 for Secret number setting for parental control.)

- The U.S. has two rating systems for viewing content: TV Parental Guidelines and movie ratings.
- The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television shows from their children.
- Movie ratings are used for original movies rated by the Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

Voluntary movie rating system (MPAA)

Rati	ing	Description
	G	General audiences. All ages admitted.
	PG	Parental guidance suggested. Some material may not be suitable for children.
	PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
Age	R	Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions).
	NC-17	No one 17 and under admitted.
	Х	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.



EXAMPLE

 If you select "PG-13", this will automatically block the higher ratings "R", "NC-17" and "X".

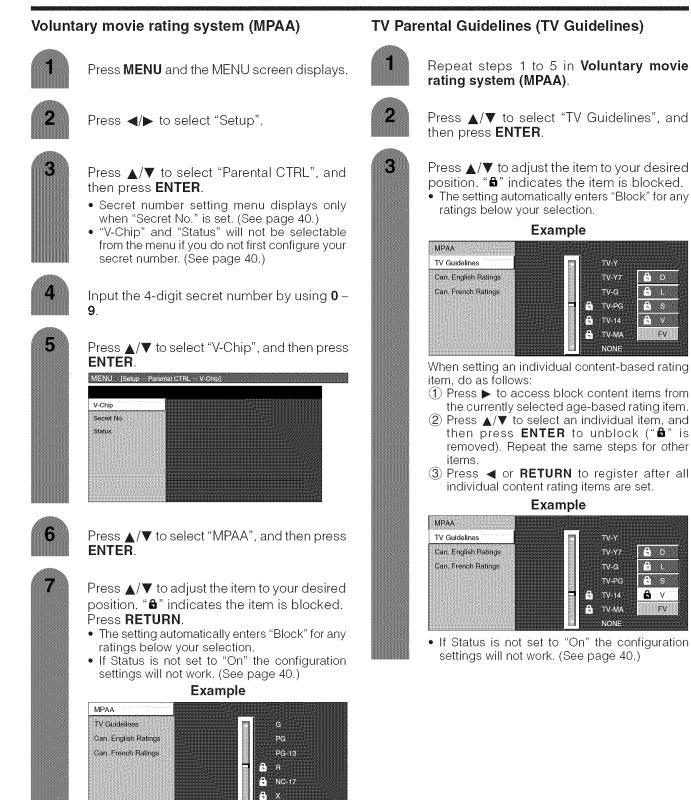


Voluntary movie rating system only uses an age-based rating.

TV Parental Guidelines

			,	Content		
	Rating	FV (Fantasy violence)	V (Violence)	S (Sexual situation)	L (Adult language)	D (Sexually suggestive dialog)
	TV-Y (All children)					
	TV-Y7 (Directed to older children)	Х				
Suggested	TV-G (General audience)					
age	TV-PG (Parental Guidance suggested)		Х	Х	Х	Х
	TV-14 (Parents strongly cautioned)		Х	Х	Х	Х
	TV-MA (Mature audience only)		Х	Х	Х	

X: Content rating can be set.



NONE

Canadian Rating Systems

- The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.
- While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.
- When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

Canadian English ratings

Rating		Description	
	E	Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.	
	С	Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.	
	C8+	Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.	
Age	G	General: Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.	
	PG	Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.	
	14 +	Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme.	
	18+	Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of sex and nudity.	

Canadian French ratings

Rat	ing	Description
	E	Exempt programming.
	G	General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
Age	8ans+	General but inadvisable for young children: May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations. Recommended for viewing with parent.
	13ans +	Over 13 years: Could contain frequent violent scenes and therefore recommended for viewing with parent.
	16ans +	Over 16 years: Could contain frequent violent scenes and intense violence.
	18ans +	Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.

Canadian English ratings



Press **MENU** and the MENU screen displays.



Press **∢**/**▶** to select "Setup".



Press \blacktriangle/ ∇ to select "Parental CTRL", and then press **ENTER**.

- Secret number setting menu displays only when "Secret No." is set. (See page 40.)
- "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 40.)

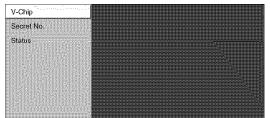


Input the 4-digit secret number by using **0** – **9**.

💓 Setup	Deption
Secret No.	



Press ▲/♥ to select "V-Chip", and then press **ENTER**.





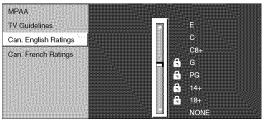
Press \blacktriangle/Ψ to select "Can. English Ratings", and then press **ENTER**.



Press ▲/▼ to adjust the item to your desired position. "♣" indicates the item is blocked. • The setting automatically enters "Block" for any

ratings below your selection.If Status is not set to "On" the configuration settings will not work. (See page 40.)

Example



Canadian French ratings



Repeat steps 1 to 5 in **Canadian English** ratings.



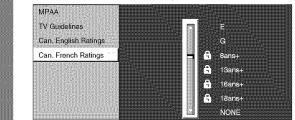
3

Press \blacktriangle/Ψ to select "Can. French Ratings", and then press **ENTER**.

Press \blacktriangle / \forall to adjust the item to your desired position. "⊕" indicates the item is blocked.

- The setting automatically enters "Block" for any ratings below your selection.
- If Status is not set to "On" the configuration settings will not work. (See page 40.)

Example



How to temporarily release the V-CHIP BLOCK

 The V-CHIP BLOCK is working and censors a broadcast, "V-CHIP HAS BEEN ACTIVATED." displays.



Press **ENTER** while the V-CHIP is working and then the secret number setting menu displays.



Enter your 4-digit secret number with **0** – **9**. At this time V-CHIP BLOCK temporarily releases.

Reactivating the temporarily released V-CHIP BLOCK

• You can reactivate the temporarily released V-CHIP BLOCK as shown below.

Method 1:

Select "Status" setting from the Parental CTRL menu to reactivate BLOCK. (See page 40.)

Method 2:

Select "V-Chip" setting ("MPAA", "TV Guidelines", "Can. English Ratings" or "Can. French Ratings") from the Parental CTRL to reactivate BLOCK. (See pages 43 and 45.)

Method 3:

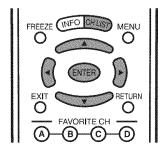
Switch off the TV power.

🔨 NOTE

• Performing any of the three above will activate the V-CHIP BLOCK.

Viewing a list of channels

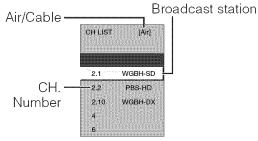
You can view a list of all currently available broadcast channels.





Press CH LIST.

• A list of all channels (Air or Cable) currently available will be displayed.



(Example) Channel List Screen for Air Broadcasts



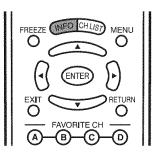
Press \blacktriangle/∇ to select the channel you want to watch, and then press **ENTER** to display the selected channel.



Press ◀/▶ to scroll between pages of the Channel List.

Viewing information of the program

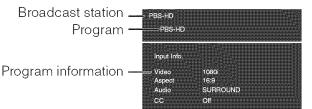
You can view information about a digital program you are currently watching.





Press **INFO** while watching a digital broadcast.

• Information of the current program will be displayed.



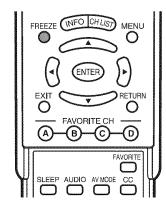
Sample program information

NOTE)

• Sometimes the name of the program is not broadcast. In that case, the program name will not be displayed.

Freezing images

Allows you to capture and freeze an image from a moving image that you are watching.





Press FREEZE.

• A moving image is captured.



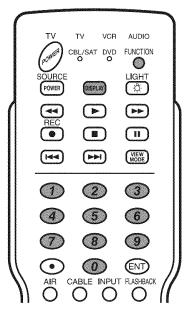
Press FREEZE again to cancel the function.

NOTE NOTE

- This function does not work in INPUT 4 (HDMI).
- When this function is not available, "No displaying still image available" will display.
- The still image is automatically erased after 30 minutes.
 If you are using freeze function and a broadcast activates the V-CHIP BLOCK, freeze function will be cancelled and a V-CHIP BLOCK message will appear.

Presetting remote control function

You can operate the connected AV products (AV Receiver, Cable Box, SAT tuner, DTV, VCR, DVD, LD) using the presetting manufacturer function for your remote control unit.



Presetting manufacturer codes



Press **FUNCTION** until the LED for your device lights up.



After the LED for your device lights up, if you press **FUNCTION** and **DISPLAY** and enter the code registration mode, the LED will blink.



Press **0** – **9** to enter the manufacturer code. (See page 48.)

• Preset mode is finished once the LED no longer lights up.



After registering the code, the LED will stop blinking then turn off after one second. (If you perform an incorrect operation, the LED will blink quickly then turn off.)

Manufacturer codes

Akai 25, 26, 37 Audio 15, 22, 30 Broksonic 32 Canon 04 Capehart 34 Craig 10, 31 Curtis Mathis 04 Daewoo 34 DBX 15, 22, 30 Dynatech 29 Emerson 21, 32, 35 Fisher 09, 10, 11 Funai 28, 29 G.E. 04 Goldstar 24 Hitachi 06, 47 Instant Replay 04 JC Penney 04, 06, 24, 30 JVC 15, 41, 42, 53 Kenwood 14, 15 Lloyds 29 Magnavox 04, 05, 08 Magnin 31 Marantz 30 Memorex 04, 10, 24, 29 Minolta 06 Mitsubishi 17, 18, 39, 40 Montgomery Ward 02, 43 Pentax 05, 06 Philco 05	VCR BRAND	REMOTE CONTROL CODE NUMBER
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Zenith 16	Zenith	16

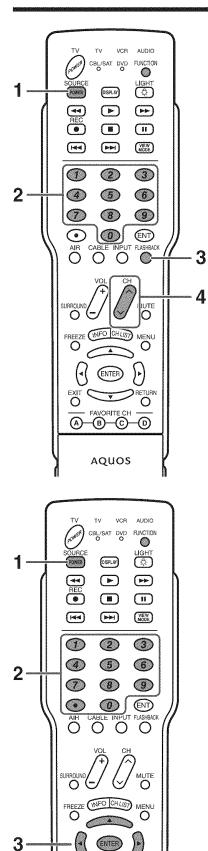
DVD/LD BRAND	REMOTE CONTROL CODE NUMBER
Denon JVC Kenwood Magnavox Marantz Mitsubishi Panasonic Philips Pioneer Proscan RCA Samsung Sharp Sony Toshiba Yamaha Zenith	02 09, 13 21 04 04 06 02, 22 04, 23 08, 11, 20 03 03, 24 07, 12 01, 10 05, 25 04 02 04
CATV/SAT BRAND	REMOTE CONTROL CODE NUMBER
Anvision Cable Star Eagle General Instrument Jerrold	04, 05 04, 05 05 02, 03, 07, 12, 13, 14, 19, 22 02, 03, 07, 12, 13, 14, 19, 22, 31, 32, 33, 34, 25, 26, 27, 28, 20, 40
Magnavox Oak Sigma Panasonic Philips	35, 36, 37, 38, 39, 40 04, 05, 09, 14, 17, 18, 20, 21, 24, 25 8 16, 23 04, 05, 09, 15, 17, 18,
Pioneer Randtek RCA Scientific Atlanta Sony Viewstar Zenith	20, 21, 24, 25 08, 10, 29, 30, 43*, 46 04, 05 16, 27, 44*, 45* 01, 26 28 04, 05, 09, 15, 17, 18, 20, 21, 24, 25 06, 14

NOTE NOTE

• Numbers marked with * are SAT codes, all others are CATV codes.

AUDIO BRAND	REMOTE CONTROL CODE NUMBER
Sharp	01

Other viewing options



EXIT O

FAVORITE CH

AQUOS

Cable control buttons

When the **FUNCTION** is set to CBL/SAT the cable converter connected to the TV can operate using **1** to **4**.

1 SOURCE POWER

Turns the cable converter power on and off.

2 0 - 9

Press a button (or buttons) that corresponds to the channel that you wish to watch.

- **3 FLASHBACK** * Press to switch between the current channel and the channel you were watching immediately before.
- 4 CH \wedge/\vee Press CH \wedge or CH \vee to tune in a higher or lower channel.
- * Some manufacturers do not preset FLASHBACK.

SNOTE)

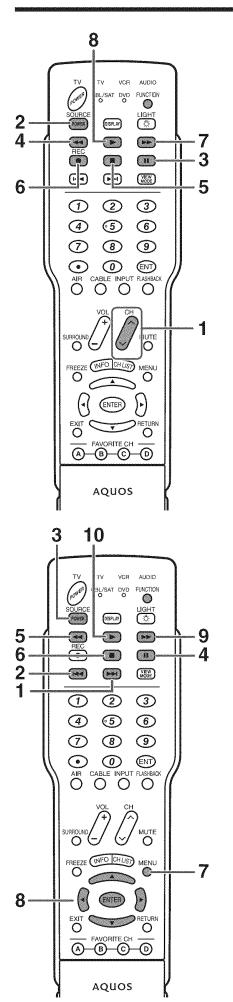
• CABLE and SAT cannot be selected at the same time.

SAT control buttons

- 1 **SOURCE POWER** Turns the Satellite broadcast tuner power on and off.
- 2 0 9, (DOT)
 Press a button (or buttons) that corresponds to the channel that you wish to watch.
- 3 ENTER, ▲/▼/◀/►
 ENTER: Press to activate the selected function.
 ▲/▼/◀/►: Press the button to select items on the SAT GUIDE screen or SAT MENU screen.

NOTE.

• CABLE and SAT cannot be selected at the same time.



VCR control buttons

The remote control unit button will function as follows when the **FUNCTION** of the remote control unit is set to VCR.

- When the input selector button having the same number as the input terminal connecting the VCR is pressed, the VCR can operate using **1** to **8**.
- 1 $CH \wedge / V$ Press to select the channel of the TV tuner on the VCR.
- 2 **SOURCE POWER** Turns the power of the VCR on and off.

3

Sets pauses and still pictures.

Rewinds the tape and allows picture search.

-

4

5

Stops the tape transport.

- 6 REC
 - Starts recording.
- 7

Rapidly advances the tape and allows picture search.

8 🕨

Starts playback.

DVD control buttons

The remote control unit button will function as follows when the **FUNCTION** of the remote control unit is set to DVD.

- When the input selector button having the same number as the input terminal connecting a DVD player is pressed, these players can operate using **1** to **10**.
- 1

Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter.

2

Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter.

3 SOURCE POWER

Turns the power of the DVD player on and off.

4

Sets pauses and still pictures.

5

Continue pressing to go backward.

6

Playback stops when pressing once. With some DVD players, pressing the button twice may open the disc tray.

7 MENU

When this button is pressed, the DVD menu will display.

8 ENTER, ▲/♥/◀/▶

ENTER: Press to activate the selected function.
 ▲/▼/◀/►: Press the button to select items on the DVD MENU screen.

9

Continue pressing for fast forward.

10

Starts playback.

Notice

- When you change your address
- If you change your address, please return the CableCARD security module to your Cable Provider Company.
- You will need to request a new CableCARD security module from the cable provider at your new location.

About EAS (Emergency Alert System)

- In the case of a national emergency, natural disaster, or other emergency situation, Cable MSO will broadcast an Emergency Alert Message (EAS message). When this unit receives an EAS message, if the level of emergency is comparatively low, an alert text message will be displayed on screen. If the level of emergency is high, the receiver will be force tuned to a details channel.
- Alert text messages will be displayed, and force tuning will occur, even during paid programming. Even when force tuning is active, the user can still change the channel.
- If the unit is force tuned to a channel that has been blocked by Parental Control, the Parental Control setting will be given priority.

Note:

- If you have a digital cable antenna connected, you can receive EAS messages whether CableCARD security module is inserted or not.
- EAS messages may be broadcast not only via digital cable, but also via Analog Cable or over-the-air Analog transmission.
- When force tuning occurs, Video output from the MONITOR OUTPUT terminal will also be switched to the details channel.
- An alert text message does not output from MONITOR OUTPUT terminal.

Appendix

Removing the stand

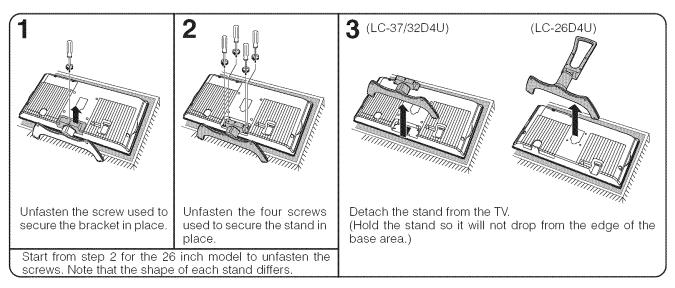
Before detaching (or attaching) stand, unplug the AC cord from the AC input terminal.

(^{III)}CAUTION

• Do not remove the stand from the TV unless using an optional wall mount bracket to mount it.

Before attaching/detaching stand

- Before performing work make sure to turn off the TV.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.



(^(II)CAUTION

• Do not remove the stand from the TV unless using an optional bracket to mount it.

NOTE)

• To attach the stand, perform the above steps in reverse order.

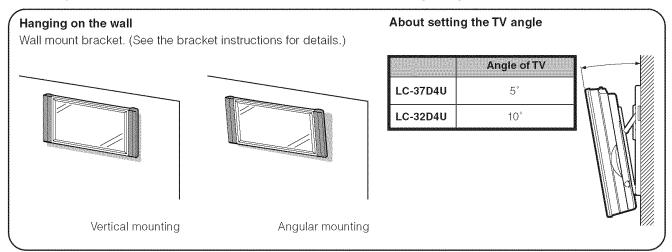
Setting the TV on the wall

^{(你}/ICAUTION

• Installing the Liquid Crystal Television requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

Using an optional bracket to mount the TV

- You can ask a qualified service professional about using an optional bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.



Troubleshooting

Problem	Possible Solution
• No power	 Check if you pressed TV POWER on the remote control unit. (See page 14.) If the indicator on the TV is off, press POWER on the TV. Is the AC cord disconnected? (See page 6.)
• Unit cannot be operated.	• External influences such as lightning, static electricity, may cause improper operation. In this case, operate the unit after first turning on the power of the TV or unplugging the AC cord and replugging it in after 1 or 2 minutes.
 Remote control unit does not operate. 	 Is the FUNCTION set correctly? Set it to the TV setting position. Are batteries inserted with polarity (+, -) aligned? (See page 7.) Are batteries worn out? (Replace with new batteries.) Are you using it under strong or fluorescent lighting? Is a fluorescent light illuminated near the remote control sensor?
• Picture is cut off/with sidebar screen.	 Is the image position correct? (See page 32.) Are screen mode adjustments such as picture size made correctly? (See page 35.)
Strange color, light color, or color misalignment	Adjust the picture tone. (See pages 25 to 26.)Is the room too bright? The picture may look dark in a room that is too bright.
 Power is suddenly turned off. 	 Is the sleep timer set? (See page 37.) Check the power control settings. (See page 28.) The unit's internal temperature has increased. Remove any objects blocking vent or clean the vent.
• No picture	 Is connection to other components correct? (See pages 30 to 31.) Is correct input signal source selected after connection? (See page 33.) Is the correct input selected? (See page 33.) Is picture adjustment correct? (See pages 25 to 26.) Is "On" selected in "Audio Only"? (See page 36.) If, after inserting the CableCARD security module, you are unable to receive broadcast service, remove the CableCARD security module and reinsert.
• No sound	 Is the volume too low? (See page 17.) Is "Variable" selected in "Output Select"? (See page 36.)
Upgrade is displayed continuously.	 Verify your antenna cable is connected property. Reinsert the CableCARD security module. If the trouble still exists after reinserting the CableCARD security module and verifying the antenna cable, please contact your Cable Provider Company.

Troubleshooting-Digital broadcasting

The error message about reception of broadcast

The example of an error message displayed on a screen	Error code	Possible Solution
Failed to receive broadcast.	E202	Check the antenna cable. Check that the antenna is correctly setup.
No broadcast now.	E203	Check the broadcast time in the program guide.

Cautions regarding use in high and low temperature environments • When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.

• Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the Liquid Crystal panel to malfunction. Storage temperature: -4°F to +140°F (-20°C to +60°C)

RS-232C port specifications

PC Control of the TV

- When a program is set, the TV can be controlled from the PC using the RS-232C terminal. The input signal (PC/AV) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing.
- Attach an RS-232C cable cross-type (commercially available) to the supplied Din/D-Sub RS-232C for the connections.

SNOTE.

• This operation system should be used by a person who is accustomed to using computers.

Communication conditions

Set the RS-232C communications settings on the PC to match the TV's communications conditions. The TV's communications settings are as follows:

Baud rate:	9,600 bps
Data length:	8 bits
Parity bit:	None
Stop bit:	1 bit
Flow control:	None

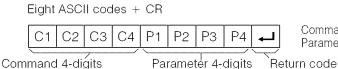
Communication procedure

Send the control commands from the PC via the RS-232C connector.

The TV operates according to the received command and sends a response message to the PC.

Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

Command format



Command 4-digits:Command. The text of four characters. Parameter 4-digits:Parameter 0 – 9, x, blank, ?

Parameter

Input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that 4 values are input for the parameter.)

When the input parameter is not within an adjustable range, "ERR" returns. (Refer to "Response code format".) Any numerical value can replace the "x" on the table.

0			
0	0	0	9
_	3	0	
1	0	0	
0	0	5	5

When "?" is input for some commands, the present setting value responds.

?			
?	?	?	?

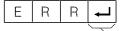
Response code format





Return code (0DH)

Problem response (communication error or incorrect command)



Return code (0DH)

Command table

• Commands not indicated here are not guaranteed to operate.

CONTROL IT	ГЕМ	C	MC	MA	ND	P.	ARA	MET	ER		CONTROL CONTENTS
POWER SETTING					R			1			It shifts to standby.
INPUT SELECTION A	TOGGLE				D			<u> </u>	-	(Toggle)	It input-switches by the toggle. (It is the same as an input change key)
	TV				D			-	-	(It input-switches to TV. (A channel remains as it is. (Last memory))
	INPUT1-4	-	-	-	D	-		1	-	Input terminal number (1-4)	It input-switches to INPUT1~INPUT4.
INPUT SELECTION B	INPUT 1				1		1			AUTO	An input change is also included.
		<u> </u>				1		1	-	VIDEO	
						2		1-	-	COMPONENT	1
	INPUT 2	1	N	P	2					AUTO	1
		Ľ	<u> </u>		1	1	100			VIDEO	1
						2	1	-	-	COMPONENT	1
AV MODE SELECTION		Α	V	M	D			<u> </u>	-	(Toggle)	Although it can choose now, it is toggle operation in inside.
		Ľ.	Ľ	1		1		1	-	STANDARD	
						2				MOVIE	
						3		-	-	GAME	
						4				USER	
		1	1			5		1	-	DYNAMIC (Fixed)	
						6	+	1		DYNAMIC	
VOLUME		V	0	π	M		*	1	-	Volume (0-60)	
POSITION	H-POSITION						*	*	-	AV mode. (±10)	
	V-POSITION	_		-		_	*	*	-	AV mode. (±20)	
VIEWMODE					E		1	!	-	(Toggle) [AV]	Although it can choose now, it is toggle operation in inside.
		<u> </u>		-	-	1	+-	-	-	Side Bar [AV]	
						2	-	-		S.Stretch [AV]	
						3			-	Zoom [AV]	
						4	1	-	-	Stretch [AV]	
MUTE		М	ίu	Т	E	0	1	-	-	(Toggle)	
					-	1				On	
						2				Off	
SURROUND		A	lc.	Is	U	0	1	1	-	(Toggle)	
		<u> </u>	-	-		1	-i	-	-	On	
						2	1	1-	-	Off	
AUDIO SELECTION		A	1c	İΗ	A	×	1	17	-	(Toggle)	
SLEEP TIMER					М			1	-	OFF	
		ľ	Ľ	Ľ		1			-	OFF TIMER - 30 MIN.	
			1			$\frac{1}{2}$				OFF TIMER - 60 MIN.	
						3		-	-	OFF TIMER - 90 MIN.	
						4	_	-	-	OFF TIMER - 120 MIN.	
CHANNEL	DIRECT	D	С	c	н		*	*		The channel number of TV	An input change is included if it is not TV display.
	CHANNEL	[Ĩ	ľ	1				-	(1-125)	In Air, 2–69ch is effective.
	(ANALOG)										In Cable, 1–125ch is effective.
	DIRECT	D	A	2	Р	*	*	×	×	(0101-9999)	DIGITAL Air (Two-Part numbers, 2-digit plus 2-digit)
	CHANNEL				U		*	*		(0-999)	DIGITAL Cable (Two-Part numbers, 3-digit plus 3-digit)
	(DIGITAL)	1Ē.	1	1					-	[· · · · ·	Front half of DIGITAL CABLE CHANNEL NO. (Designate major channel)
		D	lc	12	L	*	*	*	1	(0-999)	DIGITAL Cable (Two-Part numbers, 3-digit plus 3-digit)
									-		Rear half of DIGITAL CABLE CHANNEL NO. (Designate minor channel)
		D	С	1	0	*	*	*	×	(0-9999)	DIGITAL Cable (One-Part numbers, 5-digit, less than 10,000)
					1		*	<u>.</u>		(0-6383)	DIGITAL Cable (One-Part numbers, 5-digit, more than 10,000)
	CH UP				Р		1_	_	<u> </u>		If it is not TV display, it will input-switch to TV. (same function as $CH\Lambda$)
	CH DOWN	С	Н	D	W	X	1				I If it is not TV display, it will input-switch to TV. (same function as CHV)
		-	-	+	-	+	_		+		
Air/Cable SELECT		A	C	S	L	0	1.	1_	I _	(Toggle)	AIR> CABLE> AIR
Air/Cable SELECT		A	С	s	L	0	-i		_	(Toggle) AIR	AIR> CABLE> AIR
Air/Cable SELECT		A	С	S	L		-	-	-		AIR → CABLE → AIR

NOTE

If an underbar (_) appears in the parameter column, enter a space.
If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.

• As long as that from which the parameter (×) in the table is a numerical value, it may write anything.

Specifications

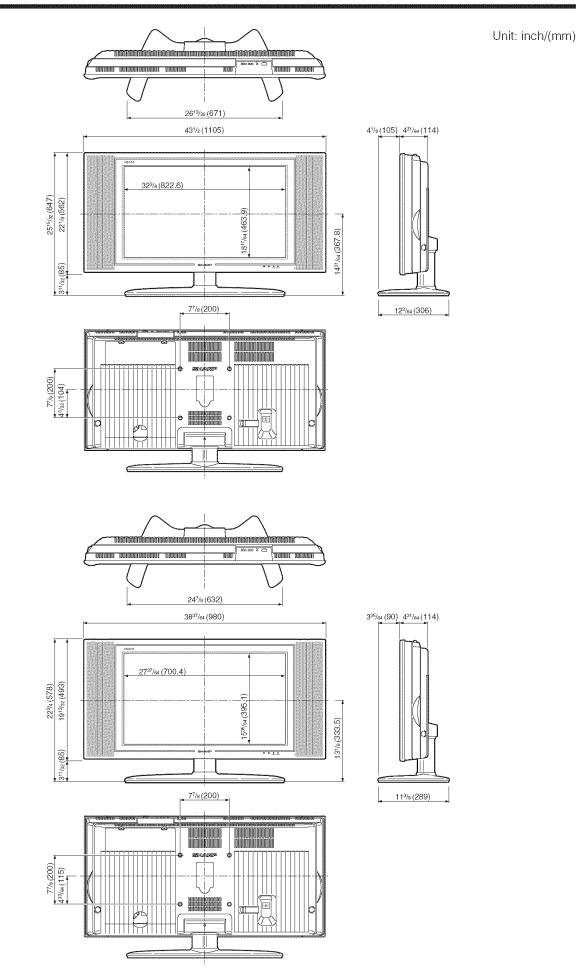
Item				Model: LC-37D4U Model: LC-32D4U Model: LC-26D4U						
LCD panel	CD panel			37" Advanced Super32" Advanced Super26" Advanced SuperView & BLACK TFT LCDView & BLACK TFT LCDView & BLACK TFT LCD						
Number of dots				3,147,264 dots (1366 × 7	768 × 3 dots)					
TV	TV-s	tandard	d (CCIR)	American TV Standard AT	SC/NTSC System					
Function	1	eiving	VHF/UHF	VHF 2-13ch, UHF 14-69ch						
	Char	nnel	CATV	1-125ch						
			Digital Terrestrial Broadcast (8VSB)	2-69ch						
			Digital cable (64/256 QAM)	1-135ch						
	Audi	o multi	plex	BTSC System						
Brightness	,			450 cd/m ²						
Backlight L	ife			60,000 hours (at Backligh	t Standard position)					
Viewing an	gles			H:170°V:170°						
Audio out				10W × 2						
Terminals	Rear	INPU ⁻	Γ1	AV in, COMPONENT in						
	INPUT 2			AV in, COMPONENT in						
		INPU	ГЗ	S-VIDEO in, AV in						
		INPU		Audio in, HDMI in with HDCP						
)g antenna	75 Ω Unbalance, F Type for VHF/UHF/CATV in $ imes$ 1						
			L ANTENNA	75 Ω Unbalance, F Type $ imes$ 2 (for Digital Air $ imes$ 1/Digital Cable in $ imes$ 1)						
			OR OUTPUT	S-VIDEO out, AV out						
DIGITAL AUDIO OUTPUT				Optical Digital audio output × 1 (PCM/Dolby Digital)						
0000	CableCARD slot			68 pin PCMCIA × 1						
OSD langu	<u> </u>			English/French/Spanish						
Power Req				AC 120 V, 60 Hz						
Power Con				188 W	146 W	124 W				
Weight	TV on	ly		46.3 lbs./21.0 kg	37.5 lbs./17.0 kg	28.7 lbs./13.0 kg				
	Stanc			11.0 lbs./5.0 kg	6.6 lbs./3.0 kg	7.7 lbs./3.5 kg				
	TV with stand			57.3 lbs./26.0 kg 44.1 lbs./20.0 kg 36.4 lbs./16.5 kg						
Dimension (W \times H \times D)))	$43^{1/2} \times 22^{1/8} \times 4^{31/64}$ inch (w/o stand), $43^{1/2} \times 25^{15/32} \times 12^{3/64}$ inch (with stand)	$\begin{array}{c} 38^{37}/_{64} \times 19^{13}/_{32} \times 4^{31}/_{64} \\ \text{inch (w/o stand),} \\ 38^{37}/_{64} \times 22^{3}/_{4} \times 11^{3}/_{8} \\ \text{inch (with stand)} \end{array}$	$33^{3}/_{8} \times 16^{29}/_{64} \times 4^{31}/_{64}$ inch (w/o stand), $33^{3}/_{8} \times 19^{9}/_{16} \times 10^{35}/_{64}$ inch (with stand)				
Accessorie	IS			Operation manual (\times 1), Remote control unit (\times 1), AC cord (\times 1), "AAA" size battery (\times 2), Cable clamp (\times 1), Cable tie (\times 1)						
Operating temperature				+32°F to +104°F (0°C to	+40°C)					

• As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Dimensional drawings

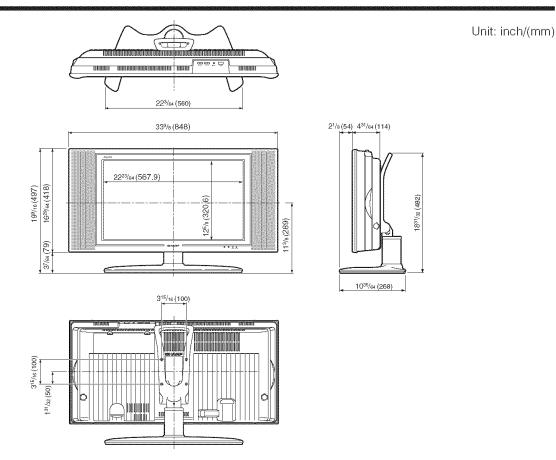
LC-37D4U

LC-32D4U



Dimensional drawings

LC-26D4U



HOW TO SET THE FACTORY PRESETS

Check that the power indicator is not on.

Remove the AC cord and switch off the power.

Press and hold down **RESET** at the same time as you re-insert the AC Cord into the outlet and switch on the TV. All setting items (except TV channel) return to the factory presetting.

S NOTE

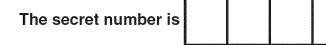
• Running the factory presetting operation also clears the secret number.

You can run the EZ Setup again by using the following steps.

- **1** Turn on the power of the TV.
- 2 Press MENU. (Make sure the menu screen displays.)
- **3** Press **∢**/**▶** to select "Setup".
- 4 Press ▲/▼ to select "EZ Setup".
- 5 Press ENTER.

🔊 NOTE

- If the secret number setting screen displays, you need to enter your secret number.
- If you forget your secret number, refer to HOW TO SET THE FACTORY PRESETS above.



NOTE.

 As a precautionary measure, make a note of your secret number above, scissor it from this manual, and keep it in a familiar place.

Calling for Service

For location of the nearest Sharp Authorized Service, or to obtain product literature, accessories, supplies, or customer assistance, please call 1-800-BE-SHARP.

LIMITED WARRANTY

CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Model Specific Section

Your Product Model Number & Description:	LC-37D4U • LC-32D4U • LC-26D4U LCD Color Television (Be sure to have this information available when you need service for your Product.)
Warranty Period for this Product:	One (1) year parts and labor from the date of purchase.
<u>Additional Item(s) Excluded from</u> <u>Warranty Coverage (if any)</u> :	Non-rechargeable batteries.
Where to Obtain Service:	From a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.
What to do to Obtain Service: LC37D4U/LC-32D4U	Contact your Sharp Authorized Servicer to obtain in-home service for this Product. The Servicer will come to your home and if it is necessary to remove the Product, the Servicer will reinstall it. Be sure to have Proof of Purchase available.
LC-26D4U	Ship prepaid or carry in your Product to a Sharp Authorized Servicer. Be sure to have Proof of Purchase available. If you ship the Product, be sure it is insured and packaged securely.
TO OBTAIN PRODUCT INFORMATION, CAL	L 1-800-BE-SHARP OR VISIT www.sharpusa.com
<u>โลกสาสสารณ์สารสารสารสารสารสารสารสารสารสารสารสารสารส</u>	

SHARP[®]

SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

SHARP CORPORATION

VALID IN CANADA ONLY

SHARP LIMITED WARRANTY

Consumer Electronics Products

Congratulations on your purchase!

Sharp Electronics of Canada Ltd. (hereinafter called "Sharp") gives the following express warranty to the first consumer purchaser for this Sharp brand product, when shipped in its original container and sold or distributed in Canada by Sharp or by an Authorized Sharp Dealer:

Sharp warrants that this product is free, under normal use and maintenance, from any defects in material and workmanship. If any such defects should be found in this product within the applicable warranty period, Sharp shall, at its option, repair or replace the product as specified herein.

This warranty shall not apply to:

- (a) Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner's manual.
- Any Sharp product tampered with, modified, adjusted or repaired by any party other than Sharp, Sharp's Authorized Service Centres or Sharp's Authorized Servicing Dealers.
- Damage caused or repairs required as a result of the use with items not specified or approved by Sharp, including but not limited to (c)head cleaning tapes and chemical cleaning agents.
- Any replacement of accessories, glassware, consumable or peripheral items required through normal use of the product including but not limited to earphones, remote controls, AC adapters, batteries, temperature probe, stylus, trays, filters, belts, ribbons, cables and paper.
- Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear. (e)
- Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid (f) spillage.
- Any product received without appropriate model, serial number and CSA/cUL markings. (q)
- Any products used for rental or commercial purposes. (h)
- (i) Any installation, setup and/or programming charges.

Should this Sharp product fail to operate during the warranty period, warranty service may be obtained upon delivery of the Sharp product together with proof of purchase and a copy of this LIMITED WARRANTY statement to an Authorized Sharp Service Centre or an Authorized Sharp Servicing Dealer. In home warranty service may be provided at Sharp's discretion on any Sharp television with the screen size of 27" or larger and on any Sharp Over-the-Range Microwave Oven.

This warranty constitutes the entire express warranty granted by Sharp and no other dealer, service centre or their agent or employee is authorized to extend, enlarge or transfer this warranty on behalf of Sharp. To the extent the law permits, Sharp disclaims any and all liability for direct or indirect damages or losses or for any incidental, special or consequential damages or loss of profits resulting from a defect in material or workmanship relating to the product, including damages for the loss of time or use of this Sharp product or the loss of information. The purchaser will be responsible for any removal, reinstallation, transportation and insurance costs incurred. Correction of defects, in the manner and period of time described herein, constitute complete fulfillment of all obligations and responsibilities of Sharp to the purchaser with respect to the product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise.

WARRA

ANTY PERIODS:		Parts & Labour (exceptions noted)
	Audio Products	1 year
	Camcorder	1 year
	DVD Products	1 year
	Projector	1 year (lamp 90 days)
	LCD & Plasma Display TV	1 year
	Microwave Oven	1 year (magnetron component-4 additional years)
	Television Products	1 year (picture tube component-1 additional year)
	VCR Products	1 year
	Vacuum Cleaner	1 year

To obtain the name and address of the nearest Authorized Sharp Service Centre or Dealer, please contact: SHARP ELECTRONICS OF CANADA LTD. 335 Britannia Road East, Mississauga, Ontario L4Z 1W9

For more information on this Warranty, Sharp Extended Warranty Offers, Sharp Canada Products, Accessory Sales, Dealer or Service Locations, please call (905) 568-7140 Visit our Web site: www.sharp.ca



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