

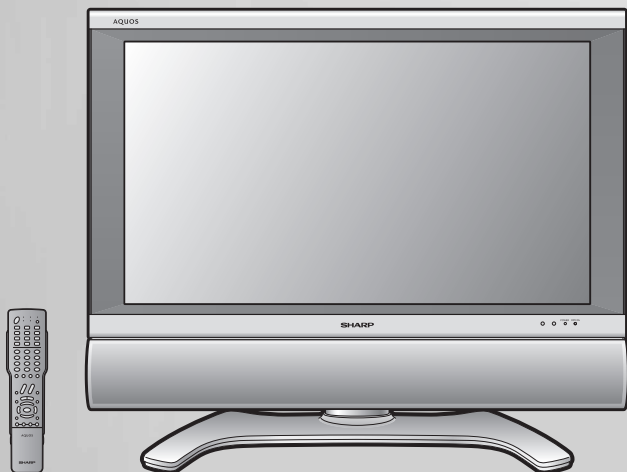
# SHARP®

## LC-37D6U LC-32D6U LC-26D6U

LIQUID CRYSTAL TELEVISION  
TÉLÉVISEUR ACL  
TELEVISOR CON PANTALLA DE CRISTAL LÍQUIDO

OPERATION MANUAL  
MODE D'EMPLOI  
MANUAL DE OPERACIÓN

# AQUOS



**BBE**  
Mach3Bass  
DIGITAL



**DOLBY**  
DIGITAL

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**HDTV**  
HIGH DEFINITION TELEVISION

**NOM** 1245



ENGLISH

FRANÇAIS

ESPAÑOL

# LC-37D6U LC-32D6U LC-26D6U

## 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-32D6U 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.**

|   |  |
|---|--|
|  <div data-bbox="359 1585 657 1697" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>CAUTION</b></p> <p style="text-align: center;">RISK OF ELECTRIC SHOCK<br/>DO NOT OPEN</p> </div>  |  <p>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.</p> |
| <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>  |  <p>The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.</p>  |

# 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-37D6U

SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-32D6U

SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-26D6U

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.sharppusa.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](http://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.

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

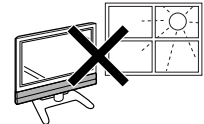
- **Water and Moisture** — Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.



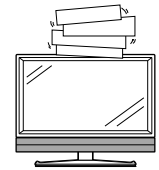
- **Stand** — Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer 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.



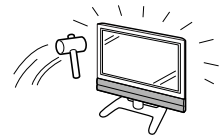
- **Selecting the location** — Select a place with no direct sunlight and good ventilation.



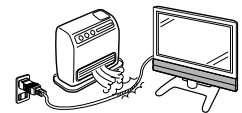
- **Ventilation** — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, 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.



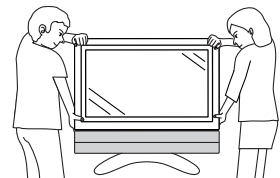
- **Heat** — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



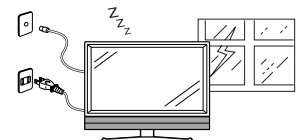
- The Liquid Crystal panel is a very high technology product with 3,147,264 thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

## Precautions when transporting the TV

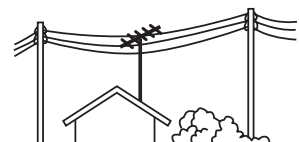
When transporting the TV, never carry it by holding onto the speaker. Be sure to always carry the TV by two people holding it with two hands—one hand on each side of the Display.



- **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.



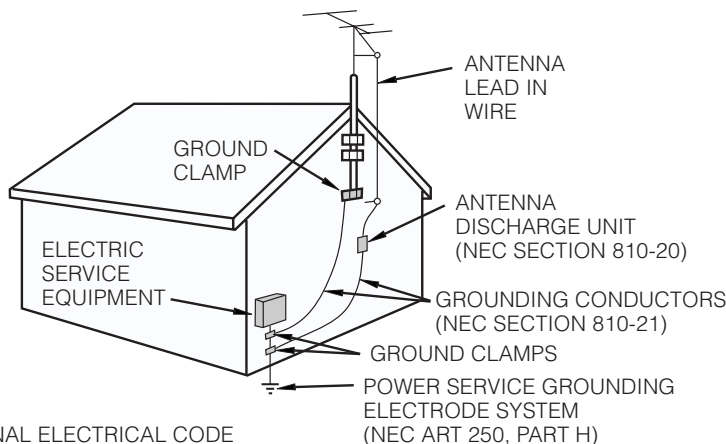
- **Power Lines** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching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



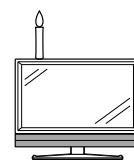
# IMPORTANT SAFETY INSTRUCTIONS

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

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



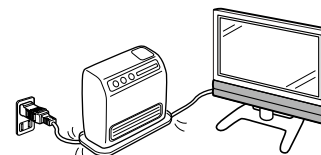
- To prevent fire, never place any type of candle or flames on the top or near the TV set.



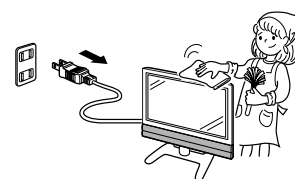
- To prevent fire or shock hazard, do not expose this product to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the product.



- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.



- Turn off the main power and unplug the AC cord from the wall outlet before handling.
- Use a soft cloth and gently wipe the surface of the TV panel. Using a hard cloth may scratch the panel surface.
- Use a soft damp cloth to gently wipe the panel when it is really dirty. (It may scratch the panel surface when wiped strongly.)
- If the panel is dusty, use an anti-static brush, which is commercially available, to clean it.
- To protect the panel, do not use a dirty cloth, liquid cleaners or chemical cloth to clean it, such materials may damage the panel surface.



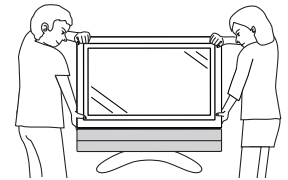
- Do not display a still picture for a long time, as this could cause an afterimage to remain.

# 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.

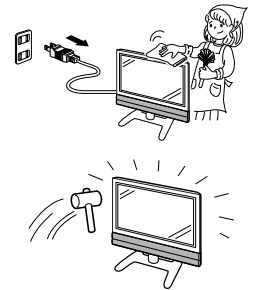


## Ventilation & Cleaning Tips

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.

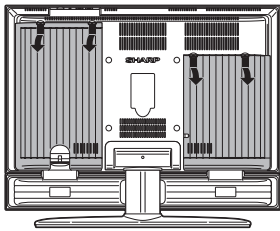
Clean the screen by spraying a soft lint free cloth with water to lightly moisten. Gently wipe and avoid pressing on the screen. To clean the outer cabinet, use the same method. Do not use liquid or aerosol cleaners.

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



## QUICK INSTALLATION TIPS

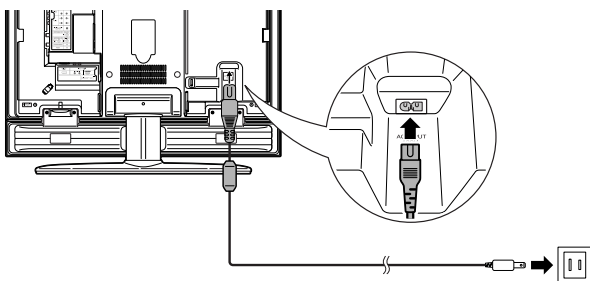
1. Facing the back of the AQUOS television, remove the terminal cover.



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

2. Attach your antenna to the back of the TV. (See page 13.)

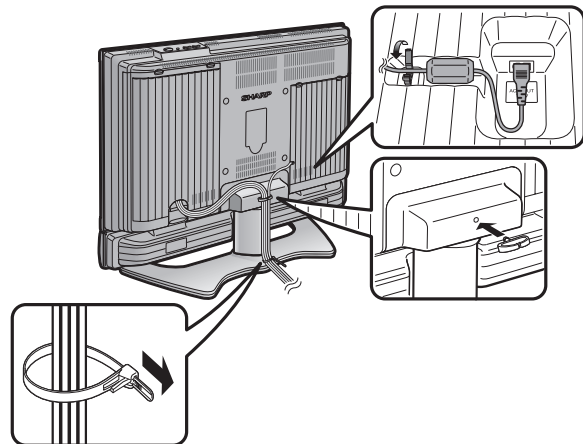
3. Connect the AC plug for the AQUOS television into the wall outlet.



### CAUTION

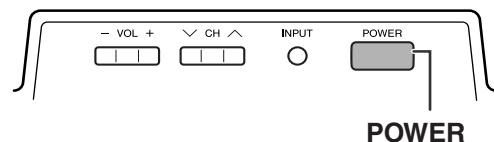
- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.

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.

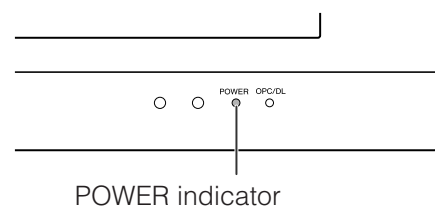


5. How to turn on the AQUOS television for the first time.

A) Press **POWER** on AQUOS television.



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



### NOTE

- The TV can be swiveled 25 degrees (26 inch model) or 10 degrees (32 and 37 inch model) right and left with TV stand attached.
- You cannot tilt the screen vertically.

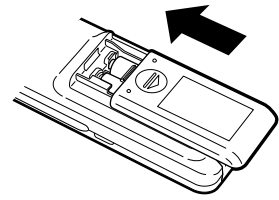
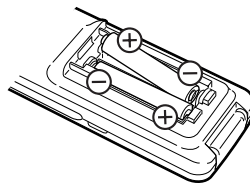
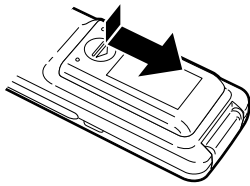
## QUICK REFERENCE

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).

**3** Close the battery cover.

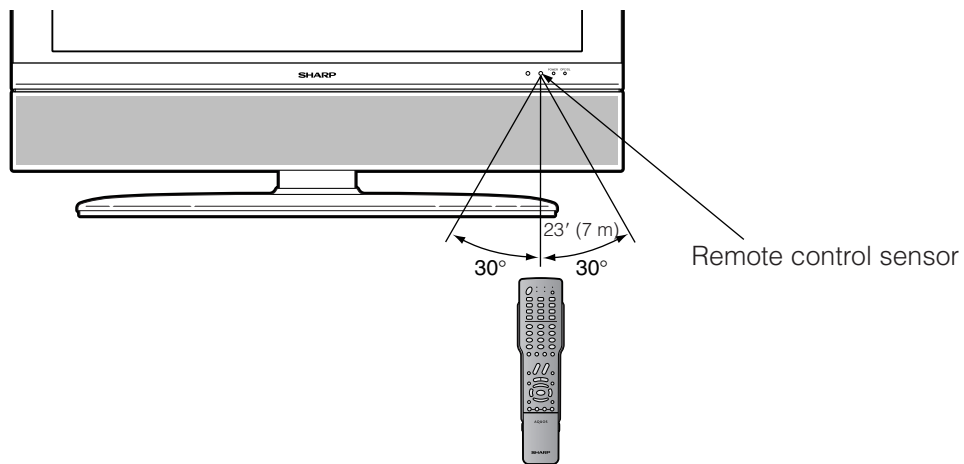


- Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

### CAUTION

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

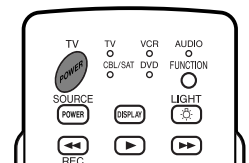
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals 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.



# Contents

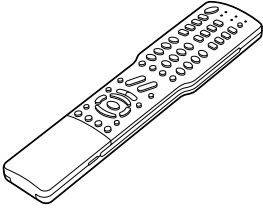

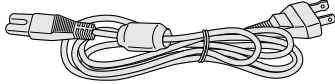
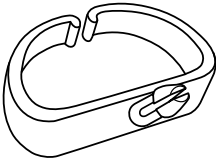
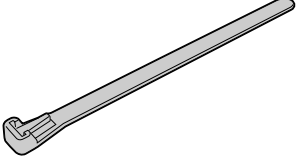
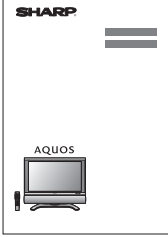
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| Sound adjustment .....                        | 27        | Specifications .....  | 56        |
| Surround .....                                | 27        | <b>Dimensional drawings</b> .....                                   | <b>57</b> |
| Power Control .....                           | 28        |   |           |
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| Audio Setup .....                             | 28        |   |           |

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- 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 video-on-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.

# Supplied accessories

Make sure the following accessories are provided with the product.

| Remote control unit (× 1)  | “AAA” size battery (× 2)   | AC cord (× 1)   |
|--|--|---|
|  <p data-bbox="316 674 395 701">Page 7</p>    |  <p data-bbox="759 674 839 701">Page 7</p>    |  <p data-bbox="1190 674 1270 701">Page 6</p> |
| Cable clamp (× 1)  | Cable tie (× 1)  | Operation manual (× 1)  |
|  <p data-bbox="316 1149 395 1176">Page 6</p> |  <p data-bbox="759 1149 839 1176">Page 6</p> |   |

## NOTE

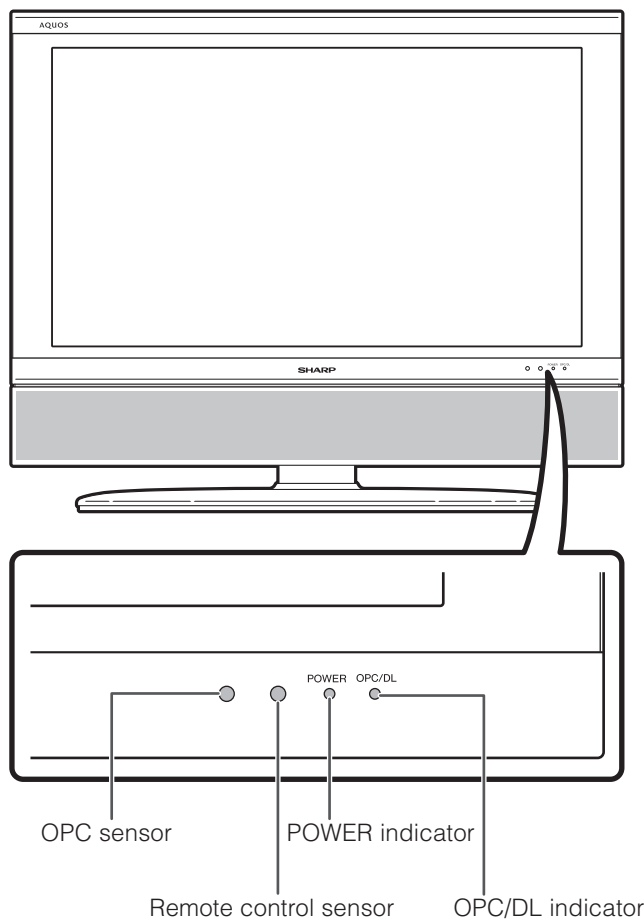
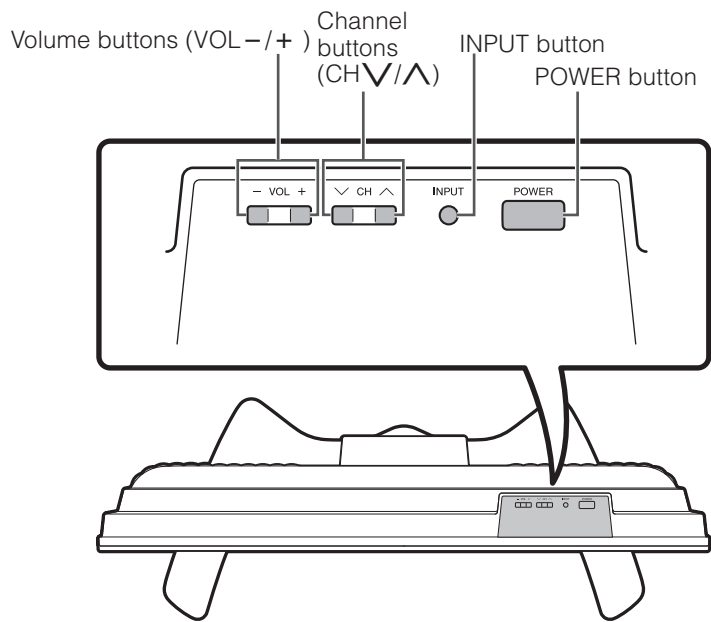
- Always use the AC cord supplied with the LCD-TV.

## Trademarks

|   |
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# Part names

## TV (Front)



### NOTE

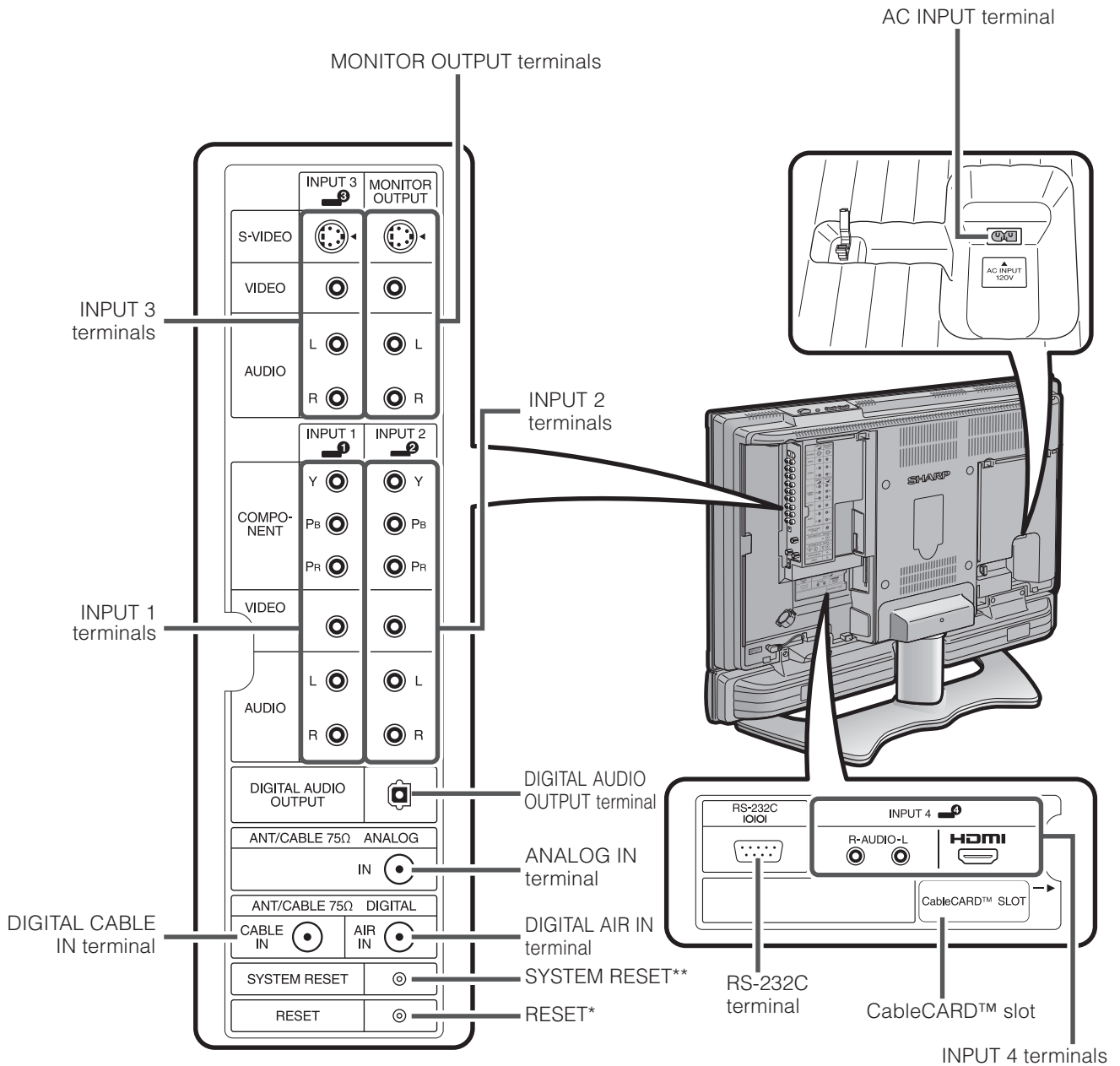
- See page 14 for status indicator.

\*OPC: Optical Picture Control  
(See page 25.)

\*DL: DownLoad

## Part names

### TV (Rear)



\* Press **RESET** if the TV cannot return to its original state after performing various operations.

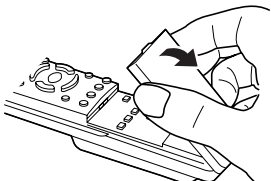
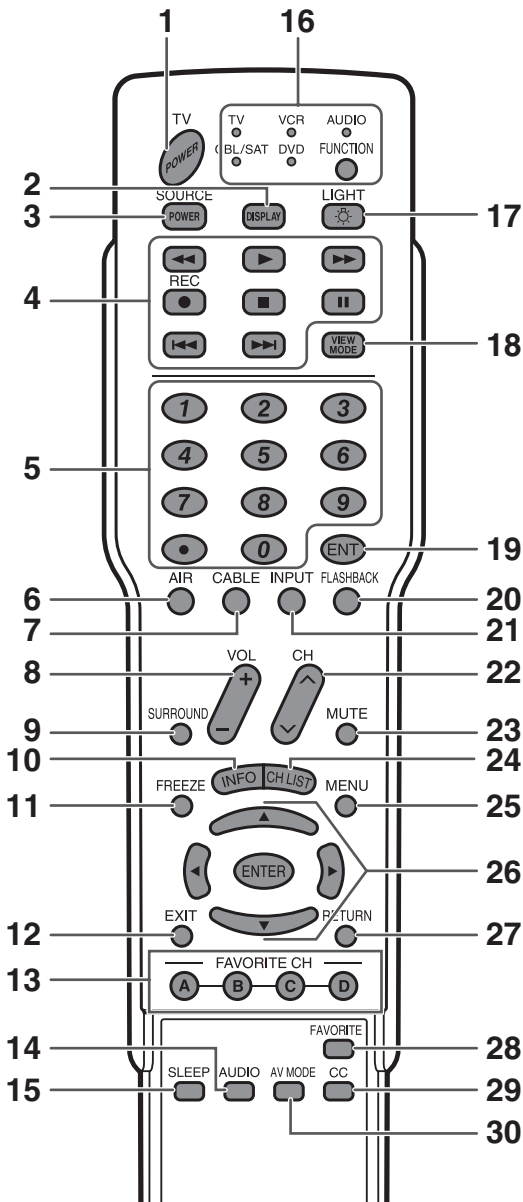
- AV MODE resets to DYNAMIC (Fixed)
- TV channel returns to initial channel (Air:2ch, Cable:1 or 2ch)
- Audio setting initializes
- Surround resets to off
- Image position initializes

\*\* 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

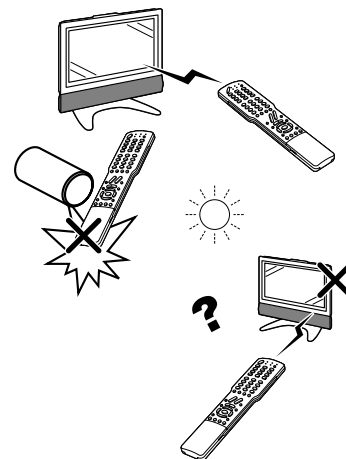


- 1 **TV POWER:** Switches the Liquid Crystal Television power on or enters Standby mode. (See page 14.)
- 2 **DISPLAY:** Displays the channel information.
- 3 **SOURCE POWER:** Turns the power of the external equipment on and off.
- 4 **External equipment operational buttons:** Operates the external 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.)
- 16 **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** ☼: 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  $\wedge/\vee$ :** 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  **$\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ /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.)

# Preparation

## 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.



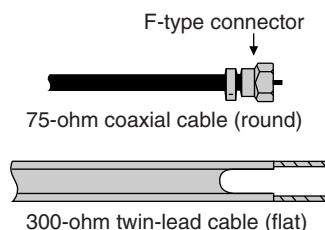
## Cautions regarding remote control unit

- 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

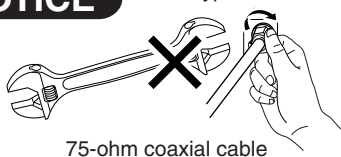
To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the TV set.

1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (Commercially available).
2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300/75-ohm adapter (Commercially available).



## NOTICE

F-type connector



75-ohm coaxial cable

**F-type connector should be finger-tightened only.**

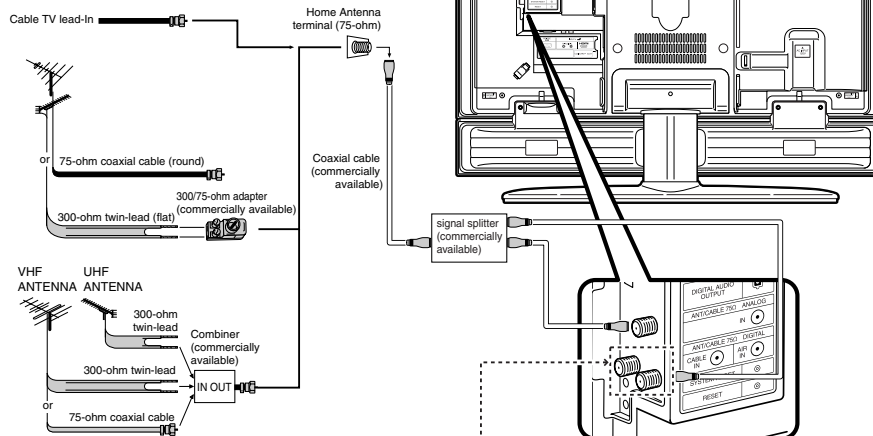
When connecting the RF cable to the TV set, do not tighten F-type connector with tools. If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.)

## Connecting Antenna Cable

Cable without a CATV converter

Combination VHF/UHF antenna

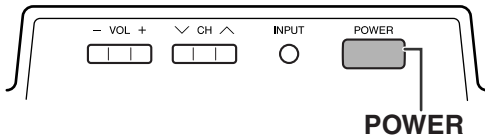
Separate VHF/UHF antenna



Depending on your reception environment, either CABLE IN or AIR IN may be used, or both CABLE IN and AIR IN may be used.

# Watching TV

Simple operations for watching a TV program



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

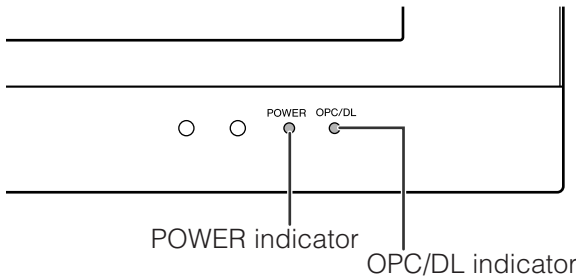
- The TV enters standby mode and the image on the screen disappears.
- The POWER indicator on the TV gradually turns off.

### NOTE

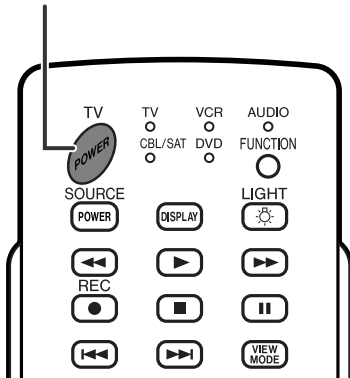
- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the power outlet.

### CAUTION

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



### TV POWER



### TV status indicator (POWER)

|             |                 |
|-------------|-----------------|
| ON          | Lighting (Blue) |
| OFF/Standby | Lights off      |

### 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.)

1

#### Language setting

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

Press **▲/▼** to select the desired language listed on the screen, and then press **ENTER**.

2

#### 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.

#### NOTE

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

3

#### 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.

4

#### Channel search

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

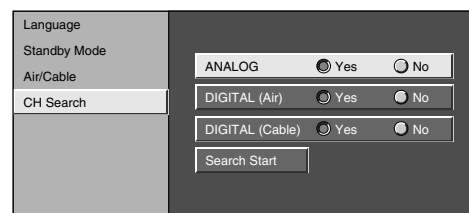
Press **◀/▶** to select "Yes" for ANALOG, then press **▼** to move down.

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

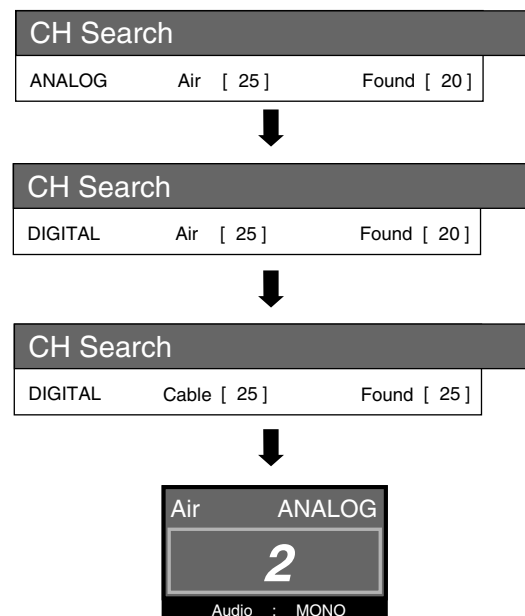
Press **◀/▶** to select "Yes" for DIGITAL (Cable), and press **▼** to move down.

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

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



#### Example



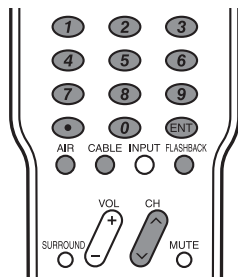
#### NOTE

- Make sure what kind of connection is made with your TV.
- 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**  $\wedge$  /  $\vee$  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

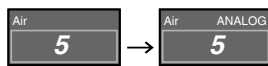
- **FLASHBACK** will not work if no channel has been changed after TV is turned on.

#### Method 3

Using remote control buttons **0-9**, **• (DOT)** to select channels for VHF/UHF/CATV/DIGITAL.

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

Press 5 → **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 → 1 → 5



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

Press 2 → 2 → **• (DOT)** → 1 → **ENT**



#### NOTE

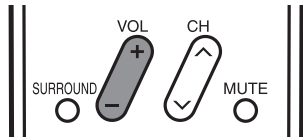
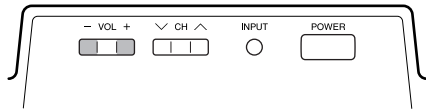
- When you enter **0-9** only, channel selection will be made if there is no operation for a few seconds.
- If you push "0" by itself, nothing will happen.
- Complete the above steps within a few seconds.
- When you enter **0-9** and **• (DOT)**, channel selection will be made if there is no operation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

## Watching TV

### 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 -**.

#### Volume adjustment



#### NOTE

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

#### Audio status

| Output device | Output Select         |                |
|---------------|-----------------------|----------------|
|               | 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.

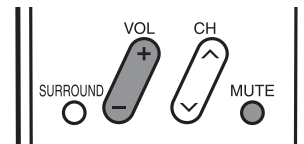


#### NOTE

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

#### ■ Using MUTE on the remote control unit

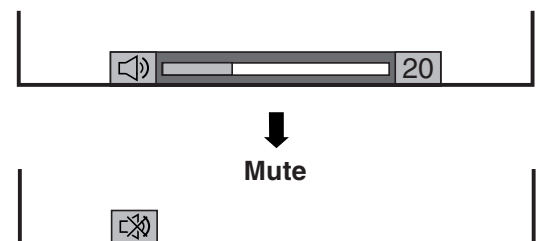
Mutes the current sound output.



1

Press **MUTE**.

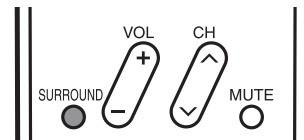
- "MUTE" will be displayed on the screen for 30 minutes, and the sound is silenced.



#### 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.**

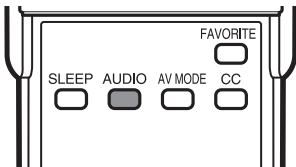
- **Stereo broadcasts**  
View programs like live sporting events, shows and concerts in dynamic stereo sound.
- **SAP broadcasts**  
Receive TV broadcasts in either MAIN or SAP sound.  
MAIN sound: The normal program soundtrack (either in mono or stereo).  
SAP sound: Listen to second language, supplementary 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.

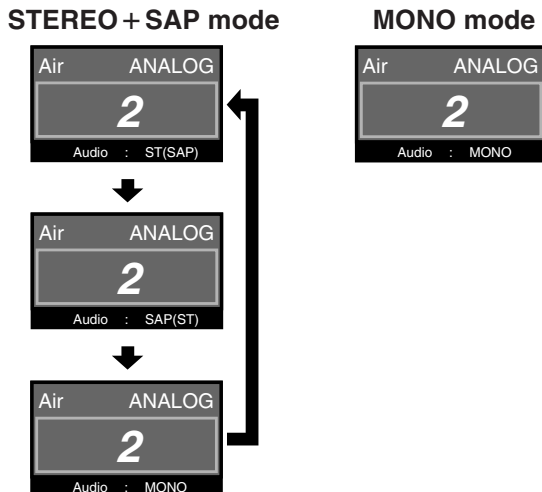
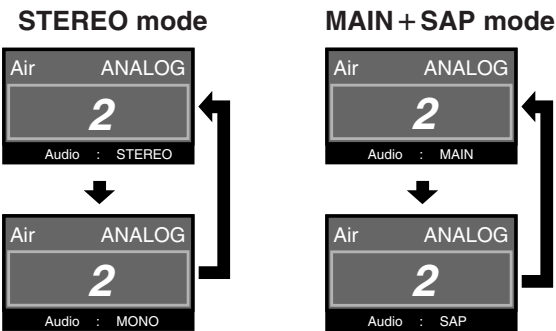
**NOTE**

- MTS only operates while in TV mode.



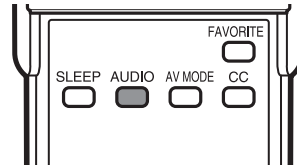
You can change MTS as shown below to match the television broadcast signal.

### Examples: when receiving MTS and SAP



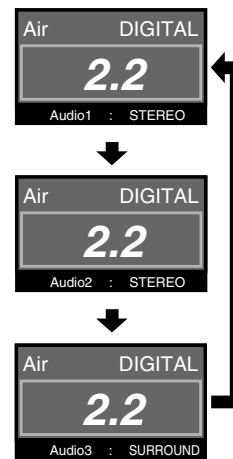
### Setting Digital broadcasting audio mode

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 set-top box via component video in order to receive HDTV programs. (See page 30.)
- When you change your address (See page 50.)
- About EAS (Emergency Alert System) (See page 50.)

**1** Turn on the power of the TV.

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

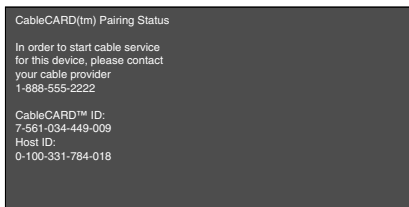
#### NOTE

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

**3** 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.

**4** 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.



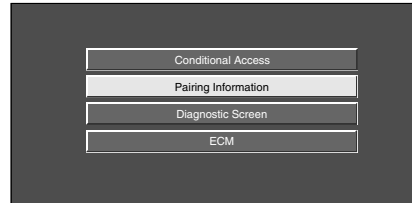
#### NOTE

- 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.

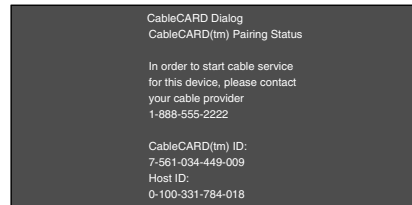
**1** Press **MENU** and the MENU screen displays.

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

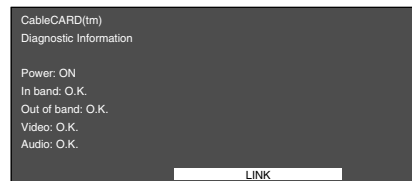


- The words “Pairing Information” may be replaced by a different expression depending on the manufacturer of the CableCARD security module.

**3** 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.
- ② Check that the CableCARD security module upgrade screen is not displayed. If it is displayed, wait until it disappears.
- ③ Disconnect the cable antenna.


# Basic adjustment settings

## Menu items

List of menu items to help you with operations

 Picture


|                  |         |
|------------------|---------|
| OPC .....        | Page 25 |
| Backlight .....  | Page 25 |
| Contrast .....   | Page 25 |
| Brightness ..... | Page 25 |
| Color .....      | Page 25 |
| Tint .....       | Page 25 |
| Sharpness .....  | Page 25 |
| Advanced         |         |
| Color Temp. .... | Page 26 |
| Black .....      | Page 26 |
| 3D-Y/C .....     | Page 26 |
| Monochrome ..... | Page 26 |
| Film Mode .....  | Page 26 |

 Option


|                               |         |
|-------------------------------|---------|
| Audio Only .....              | Page 36 |
| Digital Noise Reduction ..... | Page 36 |
| 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 |

 Audio

|                |         |
|----------------|---------|
| Treble .....   | Page 27 |
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 Power Control

|                        |         |
|------------------------|---------|
| No Signal Off .....    | Page 28 |
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 Setup

|                             |              |
|-----------------------------|--------------|
| EZ Setup .....              | Page 21      |
| CH Setup .....              | Pages 21, 22 |
| Antenna Setup-DIGITAL ..... | Page 22      |
| Input Label .....           | Page 34      |
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| Position .....              | Page 32      |
| Picture Flip .....          | Page 34      |
| Standby Mode .....          | Page 24      |
| Language .....              | Page 24      |

## Basic adjustment settings

### 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.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Setup".
- 3 Press ▲/▼ 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.
- 4 Input the 4-digit secret number by using 0 – 9.
- 5 Press ▲/▼ 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).

- 6 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.

- 7 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

- 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

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Setup".
- 3 Press ▲/▼ to select "CH Setup", and then press **ENTER**.
  - If you already set the Secret No., input the 4-digit secret number here. See page 40 for setting a secret number.
- 4 Press ▲/▼ to select "Air/Cable", and then press **ENTER**.
- 5 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.

#### NOTE

- 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.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Setup".
- 3 Press ▲/▼ to select "CH Setup", and then press **ENTER**.
  - If you already set the Secret No., input the 4-digit secret number here. See page 40 for setting a secret number.
- 4 Press ▲/▼ to select "CH Search", and then press **ENTER**.
- 5 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

- Make sure what kind of connection is made with your TV.  -21

## Basic adjustment settings

### Channel memory setting

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "CH Setup", and then press **ENTER**.
  - If you already set the Secret No., input the 4-digit secret number here. See page 40 for setting a secret number.
- 4 Press **▲/▼** to select "CH Memory", and then press **ENTER**.
- 5 Press **▲/▼** to select ANALOG, DIGITAL (Air), DIGITAL (Cable) and CableCARD, and then press **ENTER**.
- 6 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:**
  - ① Press **▲/▼**, and then press **◀/▶** to select the channel to skip or not.
  - ② Press **▲/▼** to select "Skip", and then press **◀/▶** to select "On" or "Off".**When viewing DIGITAL broadcasts:**
  - ① Press **▲/▼** to select the channel to skip or not, and then press **◀/▶** to select "On" or "Off".

- On: Skips channels. (Channel selection disabled using **CH▲/▼**.)
- Off: Does not skip channels. (Channel selection enabled using **CH▲/▼**.)

#### NOTE

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

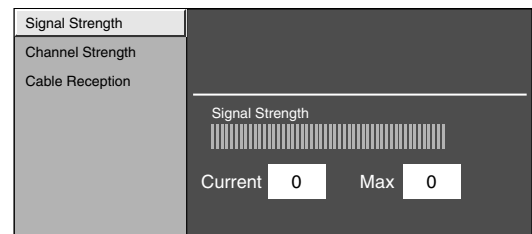
### Antenna Setup – DIGITAL

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

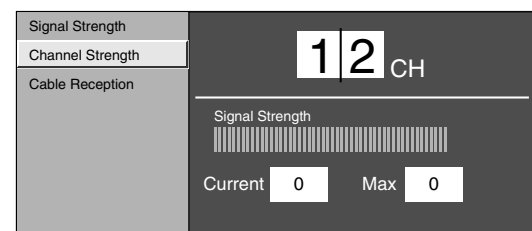
- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "Antenna Setup - DIGITAL", and then press **ENTER**.
  - If you already set the Secret No., input the 4-digit secret number here. See page 40 for setting a secret number.
- 4 Press **▲/▼** 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.

- 1 Repeat steps 1 to 3 in Signal Strength in **Antenna Setup - DIGITAL**.
- 2 Press **▲/▼** to select "Channel Strength", and then press **ENTER**.
- 3 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.

## Basic adjustment settings

---

### 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.

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

**2** Press ◀▶ to select "Setup".

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

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

**4** 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.



## Basic adjustment settings

### Standby Mode

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

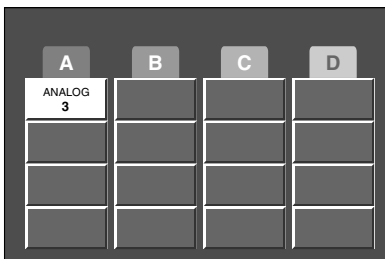
- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "Standby Mode", and then press **ENTER**.
- 4 Press **▲/▼** to select "Mode1" or "Mode2", and then press **ENTER**.

| 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.

- 1 Select the channel you want to register as a favorite channel.
- 2 Press **FAVORITE**.
- 3 Press **▲/▼** to select "Register", and then press **ENTER**.
- 4 Press **▲/▼/◀/▶** to select the position in the area, and then press **ENTER** to register.

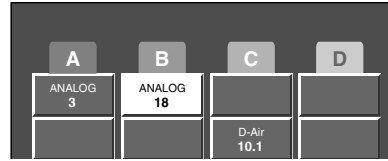


### Deleting favorite channel

- 1 Press **FAVORITE** and the favorite channel screen displays.
- 2 Press **▲/▼** to select "1 Data Clear", and then press **ENTER**.

3

Press **▲/▼/◀/▶** to select the channel you want to delete, and then press **ENTER**.



4

Press **◀/▶** to select "Yes", and then press **ENTER**.



#### 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.

1

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

2

Press **◀/▶** to select "Setup".

3

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

4

Press **▲/▼** to select the desired language listed on the screen, and then press **ENTER**.

## Basic adjustment settings

### Picture adjustments

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

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

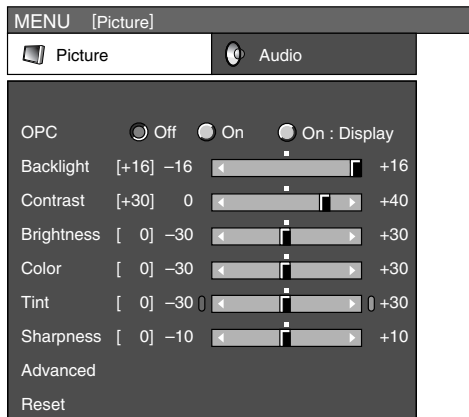
**2** Press **◀/▶** to select "Picture".

**3** Press **▲/▼** to select a specific adjustment item.

**4** 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**.



| Selected item     | ◀ button                   | ▶ button                   |
|-------------------|----------------------------|----------------------------|
| <b>Backlight</b>  | The screen dims            | The screen brightens       |
| <b>Contrast</b>   | For less contrast          | For more contrast          |
| <b>Brightness</b> | For less brightness        | For more brightness        |
| <b>Color</b>      | For less color intensity   | For more color intensity   |
| <b>Tint</b>       | Skin tones become purplish | Skin tones become greenish |
| <b>Sharpness</b>  | 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

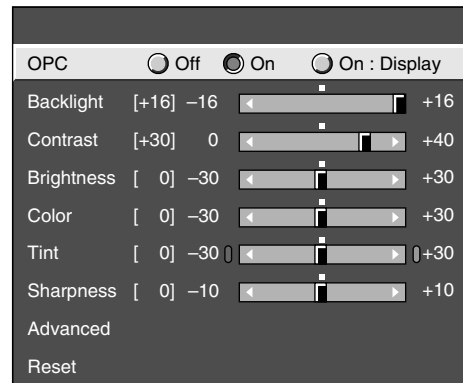
Automatically adjusts the brightness of the screen.

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

**2** Press **◀/▶** to select "Picture".

**3** Press **▲/▼** to select "OPC".

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



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

#### NOTE

- 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.

## Basic adjustment settings

### Advanced picture adjustments

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

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

**2** Press **◀/▶** to select "Picture".

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

**4** Press **▲/▼** to select a specific adjustment item.


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

**5** Press **▲/▼** (or **◀/▶**) 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   |
|-----------------|---|
| <b>High</b>     | White with Bluish tone  |
| <b>Mid-High</b> |  |
| <b>Middle</b>   |   |
| <b>Mid-Low</b>  |   |
| <b>Low</b>      | 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                       |
|---------------|-----------------------------------|
| <b>Off</b>    | No adjustment                     |
| <b>On</b>     | For high detail in black portions |

### 3D-Y/C

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

| Selected item   | Description       |
|-----------------|-------------------|
| <b>Standard</b> | Normal adjustment |
| <b>Fast</b>     | For movie image   |
| <b>Slow</b>     | 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               |
|---------------|---------------------------|
| <b>Off</b>    | Normal color              |
| <b>On</b>     | 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                             |
|---------------|---|
| <b>Off</b>    | Normal viewing mode                     |
| <b>On</b>     | Detects, analyzes, converts film source |

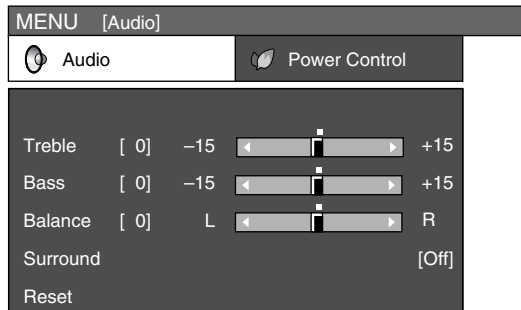
## Basic adjustment settings

### Sound adjustment

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

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

**2** Press ◀/▶ to select "Audio".



**3** Press ▲/▼ to select a specific adjustment item.

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

| Selected item  | ◀button                               | ▶button                              |
|----------------|---------------------------------------|--------------------------------------|
| <b>Treble</b>  | For weaker treble                     | For stronger treble                  |
| <b>Bass</b>    | For weaker bass                       | For stronger bass                    |
| <b>Balance</b> | 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**.

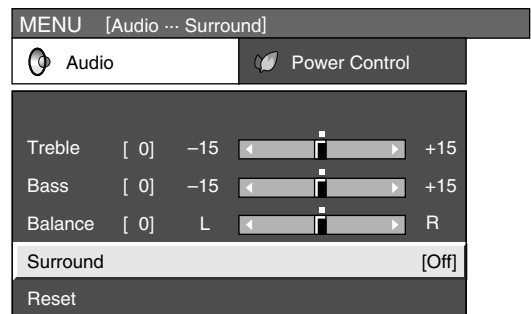
### Surround

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

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

**2** Press ◀/▶ to select "Audio".

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



**4** 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.

## Basic adjustment settings

### Power Control

Power control setting allows you to save energy.

#### No signal off

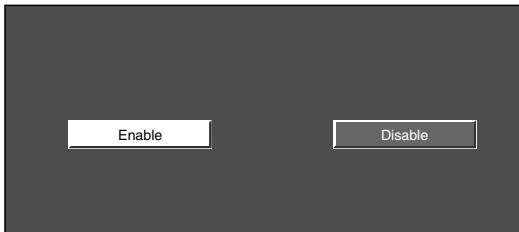
When set to "Enable", the power will automatically shut down if no signal inputs for 15 minutes.

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

**2** Press **◀/▶** to select "Power Control".

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

**4** 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.

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

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

**3** 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

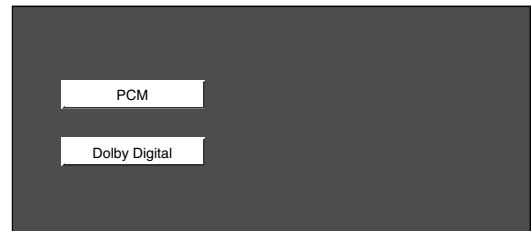
You can output digital audio to an AV amplifier or similar device whose DIGITAL AUDIO INPUT terminal is connected to the DIGITAL AUDIO OUTPUT terminal on the TV (see page 30). Please select an audio output format compatible with the audio format of the program you are watching and the equipment connected.

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

**2** Press **◀/▶** to select "Digital Setup".

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

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



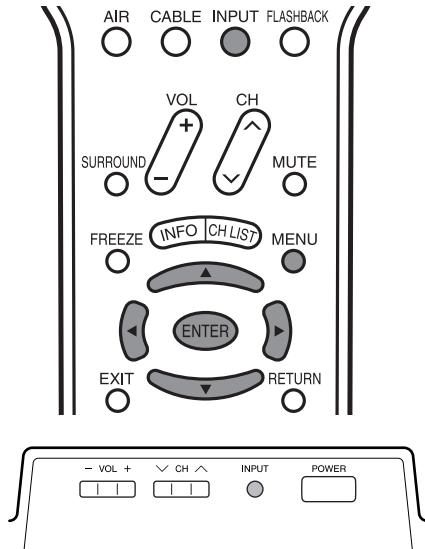
| Selected item        | Description  |
|----------------------|--|
| <b>PCM</b>           | The optical output terminal outputs audio signal by PCM form. If your digital audio system does not support Dolby Digital, select "PCM". |
| <b>Dolby Digital</b> | The optical output terminal outputs audio signal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

# Using external equipment

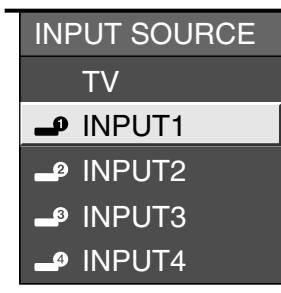
You can connect many types of external equipment to your TV, like a DVD player, VCR, Digital TV tuner, HDMI equipment, game console and camcorder. To view external source images, select the input source from **INPUT** on the remote control unit or on the TV.

## 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

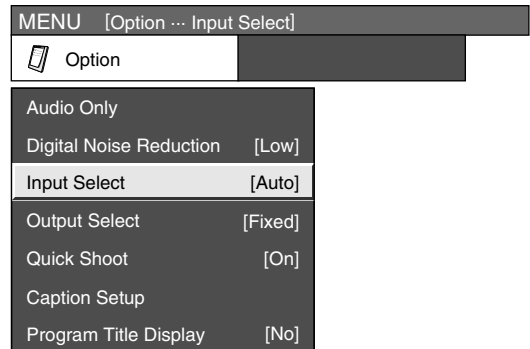
- If the image does not come in clearly, you may need to change the input signal type setting on the "Input Select" menu.

## Selecting the INPUT signal

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

**2** Press ◀▶ to select "Option".

**3** Press ▲/▼ to select "Input Select", and then press **ENTER**.



**4** Select the desired signal type.

### For INPUT1 signal



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

### CAUTION

- 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

- 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.

## Using external equipment

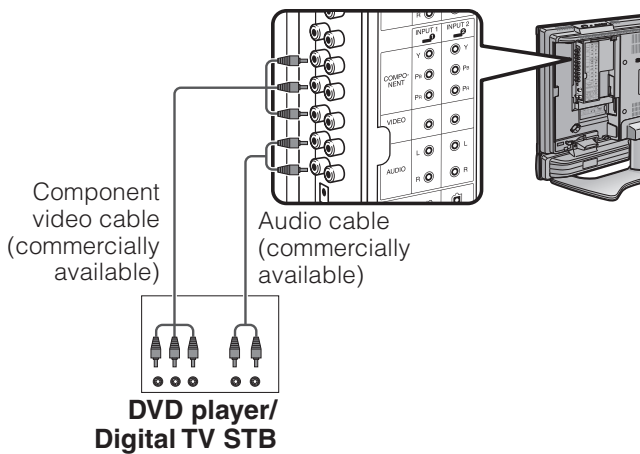
### Connecting a DVD player or a Digital TV STB (Air or Cable)

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.

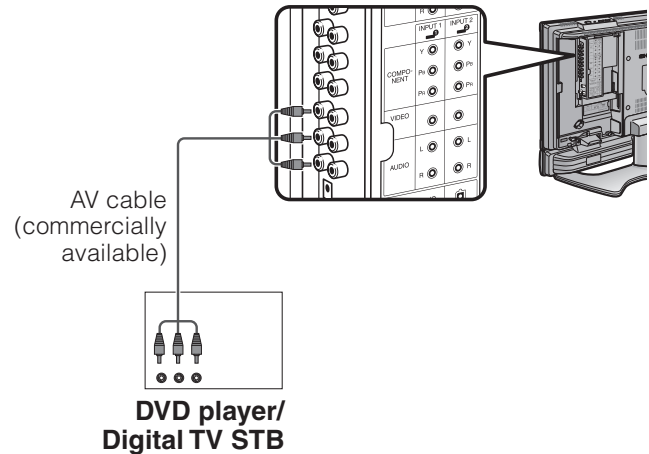
#### NOTE

- 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.)

#### When using component cable. (INPUT 1 or 2)



#### When using composite cable. (INPUT 1, 2 or 3)



#### NOTE

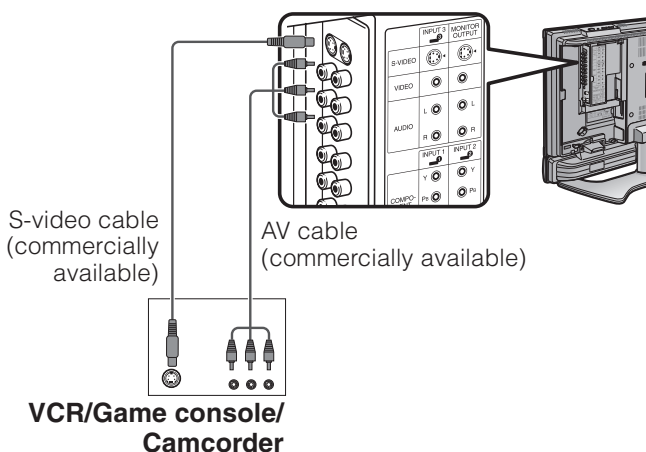
- See page 31 for connecting a DVD player or a Digital TV STB to HDMI terminal.

### 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.

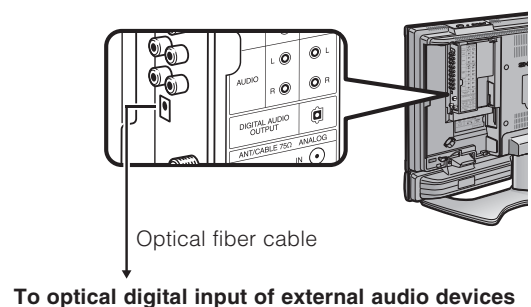
#### NOTE

- 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.



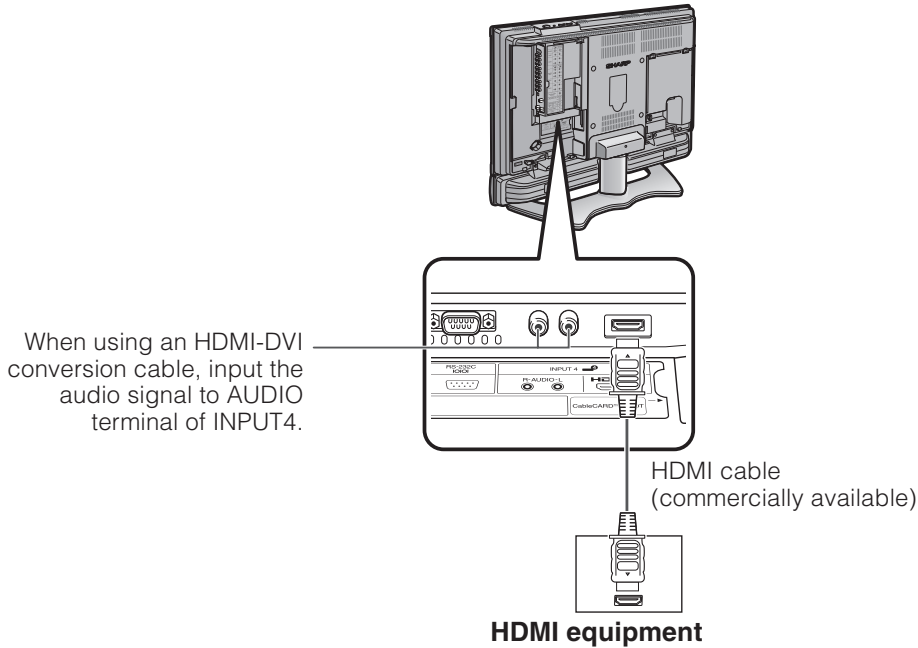
#### NOTE

- 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.

## Using external equipment

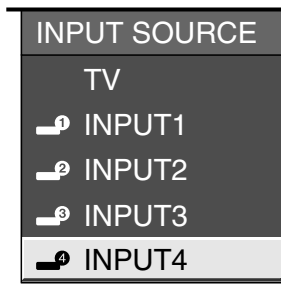
### Connecting HDMI equipment

Please use the INPUT 4 terminal when connecting HDMI equipment.



### Displaying an image from HDMI equipment

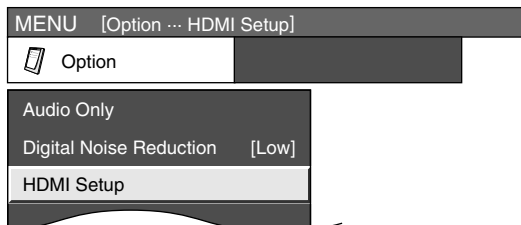
- 1** To watch an HDMI equipment image, select "INPUT4" from "INPUT SOURCE" menu using **INPUT** on the remote control unit or on the TV. (See page 33.)



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

- 3** Press **◀/▶** to select "Option".

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



- 5** Press **▲/▼** to select the desired item and press **ENTER**.

- 6** Press **▲/▼/◀/▶** to select the desired setting and press **ENTER**.

| HDMI Setup items     | Selectable items                | Description  |
|----------------------|---------------------------------|--|
| <b>Signal Type</b>   | RGB/YCbCr 4:4:4/<br>YCbCr 4:2:2 | Select the video signal type from the HDMI terminal.   |
| <b>Color Matrix</b>  | ITU601/ITU709                   | Select the internal color space conversion method when an RGB signal is input.   |
| <b>Dynamic Range</b> | Standard/<br>Out of standard    | Select the signal amplitude range. Usually, select "Standard".   |
| <b>Auto View</b>     | Enable/Disable                  | Set whether or not to use VIEW MODE based on signal recognition, including an HDMI signal.                             |
| <b>Audio Select</b>  | Digital/Analog                  | Select "Digital" for audio signal via the HDMI terminal. Select "Analog" for audio signal via the R-AUDIO -L terminal. |

#### NOTE

- Refer to your external equipment operation manual for the signal type.



# Useful adjustment settings

## Image position

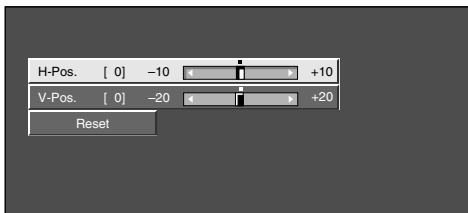
For adjusting a picture's horizontal and vertical position.

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

**2** Press **◀/▶** to select "Setup".

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

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



| Selected item | Description  |
|---------------|--|
| <b>H-Pos.</b> | Centers the image by moving it to the left or right. |
| <b>V-Pos.</b> | Centers the image by moving it up or down.           |

**5** Press **◀/▶** 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.

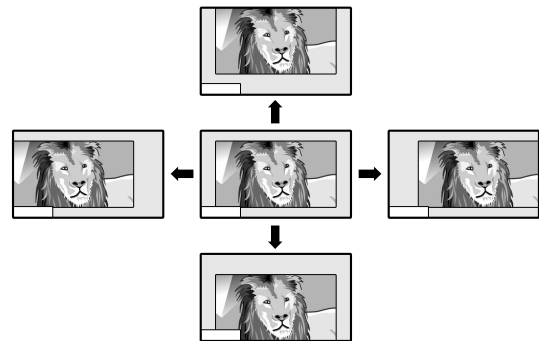
## Moving the picture on the screen

You can move the picture around on the screen.

Press **▲/▼/◀/▶** to move an image on the screen to the desired position. Press **ENTER** to return to the initial image position.

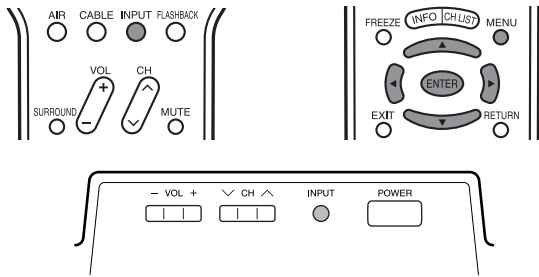
### NOTE

- 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.



## Useful adjustment settings

### Input Select



### Selecting input source

Use this menu to select the input source.

1

Press **INPUT**.

- A list of selectable sources appears.

2

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.

1

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

2

Press **◀/▶** to select "Option".

3

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

4

Press **▲/▼** 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

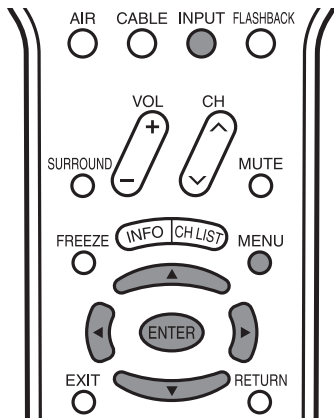
1. COMPONENT VIDEO

2. VIDEO

## Useful adjustment settings

### Input Label

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



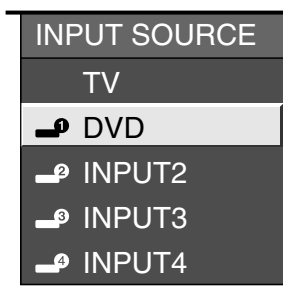
**1** Press **INPUT** to select the desired input mode.

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

**3** Press **◀▶** to select "Setup".

**4** Press **▲/▼** to select "Input Label", and then press **ENTER**.

**5** Press **▲/▼/◀▶** 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.

**1** Repeat steps 1 and 2 in **Input Label**.

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

**3** Press **▲/▼** to select the desired mode, and then press **ENTER**.

[Standard]: normal image.



[Mirror]: mirror image.



[Upside Down]: upside down image.



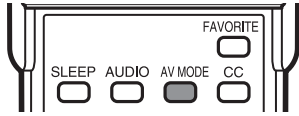
[Rotate]: rotated image.



## Useful adjustment settings

### 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.



1

Press **AV MODE**.

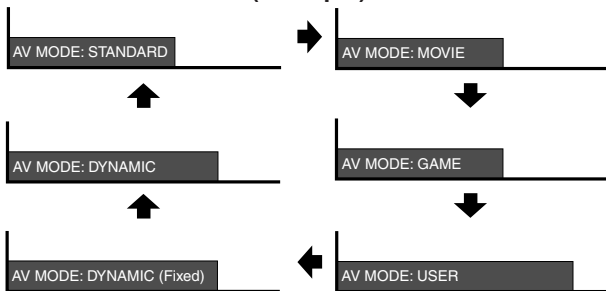
- Present AV MODE displays.

2

Press **AV MODE** again before the mode displayed on the screen disappears.

- The mode changes as shown below.

#### Mode selection for TV and INPUT 1 to 4 mode (Example)



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

1

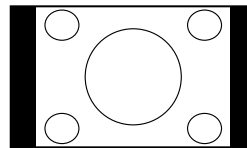
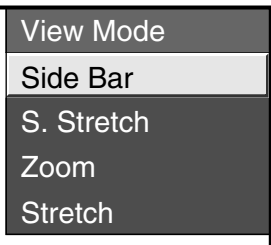
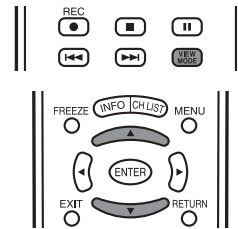
Press **VIEW MODE**.

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

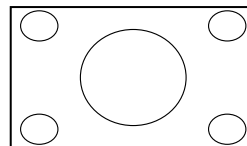
2

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

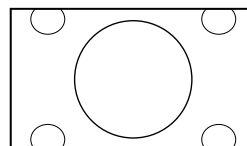
- You can sequentially select a view mode that has its own aspect ratio.



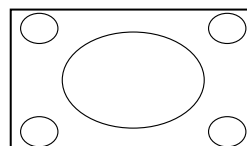
**Side Bar:** Suitable for viewing conventional 4:3 programs in their normal format.



**S.Stretch (Smart stretch):** Suitable for stretching 4:3 programs to fill the screen.



**Zoom:** Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.



**Stretch:** 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 (Smart stretch):** Suitable for stretching 4:3 programs to fill the screen.

**Zoom:** Suitable for viewing wide-screen 2.35:1 aspect-ratio programs in full screen.

**Stretch:** Suitable for viewing wide-screen 1.78:1 aspect-ratio 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.

## Useful adjustment settings

### Digital Noise Reduction

Produces a clearer video image.

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

**2** Press **◀/▶** to select "Option".

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

**4** Press **▲/▼** to select the desired level, and then press **ENTER**.



### Audio Only

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

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

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

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

| Selected item | Description                              |
|---------------|--|
| <b>On</b>     | Audio is output without screen image.    |
| <b>Off</b>    | Both screen images and audio are output. |

### Output Select

Allows you to select what controls the audio output.

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

**2** Press **▲/▼** to select "Output Select", and then press **ENTER**.

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

| Selected item   | Description  |
|-----------------|--|
| <b>Fixed</b>    | <ul style="list-style-type: none"> <li>• Sound via speaker is adjusted with <b>VOL +/-</b> on the remote control unit or <b>VOL -/+</b> on the TV.</li> <li>• Sound via the MONITOR OUTPUT terminal is not adjustable and constantly outputs.</li> </ul> |
| <b>Variable</b> | <ul style="list-style-type: none"> <li>• Sound via the MONITOR OUTPUT terminal is adjusted with <b>VOL +/-</b> on the remote control unit or <b>VOL -/+</b> on the TV.</li> <li>• Sound via speaker is muted.</li> </ul>                                 |

### Quick Shoot

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

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

**2** Press **▲/▼** to select "Quick Shoot", and then press **ENTER**.

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

#### NOTE

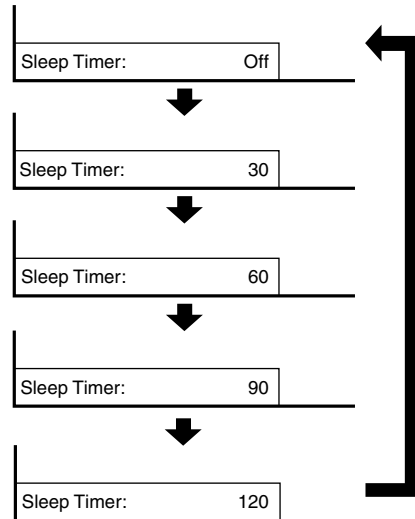
- If video noise occurs, turn the function "Off".

## Useful adjustment settings

### Color System

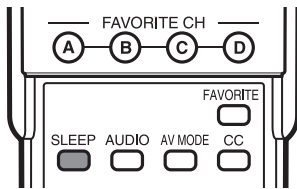
Select the optimum color systems to receive. (Auto, NTSC, PAL-M, PAL-N)

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "Color System", and then press **ENTER**.
- 4 Press **▲/▼** to select a compatible video signal system of your equipment, and then press **ENTER**.

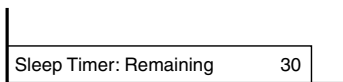


### Sleep Timer

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



- 1 Press **SLEEP**.
  - Remaining time displays when sleep timer has been set.



- 2 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

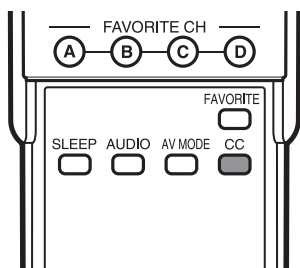
Select the CH display when changing channels for digital broadcasting.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "Program Title Display", and then press **ENTER**.
- 4 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.



1

Press **CC**.

- This will present the Closed Caption information display.

2

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** → **2/3 CC1** → **3/3 Text1** → **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.

## Useful adjustment settings

### Caption Setup

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

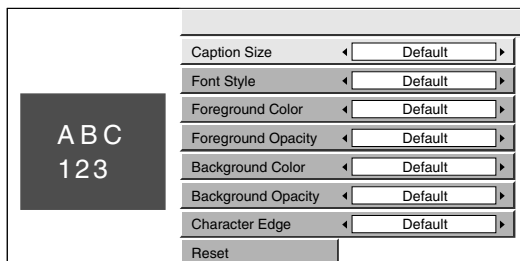
**1** Press **MENU** and the MENU screen displays.

**2** Press ◀/▶ to select "Option".

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

**4** 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".



**5** Press ◀/▶ 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   |
|----------------|---|
| <b>Default</b> | The font specified by broadcasting station or default font. |
| <b>Type 0</b>  | Proportional font used in the MENU screen.                  |
| <b>Type 1</b>  | Monospaced with serifs.                                     |
| <b>Type 2</b>  | Proportionally spaced with serifs.                          |
| <b>Type 3</b>  | Monospaced without serifs.                                  |
| <b>Type 4</b>  | Proportionally spaced without serifs.                       |
| <b>Type 5</b>  | Casual font type.   |
| <b>Type 6</b>  | Cursive font type.  |
| <b>Type 7</b>  | Small capitals.   |



## Useful adjustment settings

### Secret number setting for parental control

Allows you to use a secret number to protect certain settings from being accidentally changed.

#### IMPORTANT:

Three conditions must be met to enable V-Chip (see pages 40 to 45):

- ① Secret No. is registered.
- ② V-Chip settings have been made.
- ③ "Status" is set to "On".

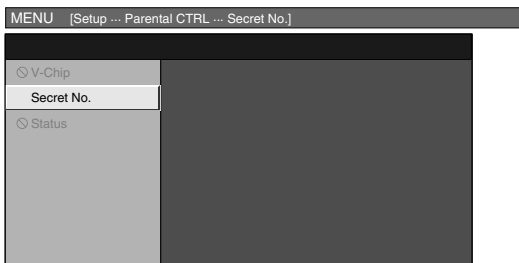
### Setting a secret number

**1** Press **MENU** and MENU screen displays.

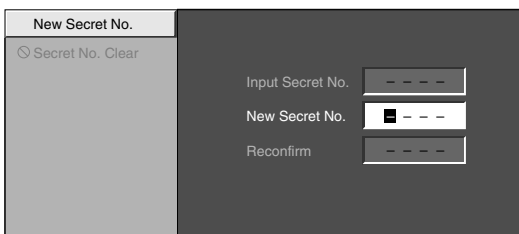
**2** Press **◀/▶** to select "Setup".

**3** Press **▲/▼** to select "Parental CTRL", and then press **ENTER**.

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

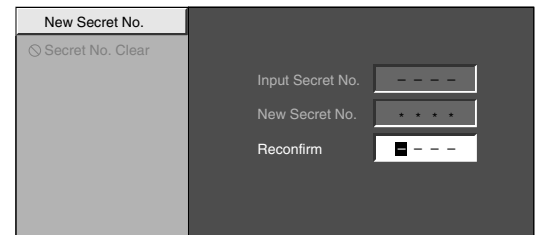


**5** Select "New Secret No.", and then press **ENTER**.  
Input the new 4-digit secret number by using **0 – 9**.



**6**

Input the same 4-digit number on the "Reconfirm" screen as in step 5 to confirm.



**7**

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.

**1**

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

- Secret number setting menu displays.

**2**

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

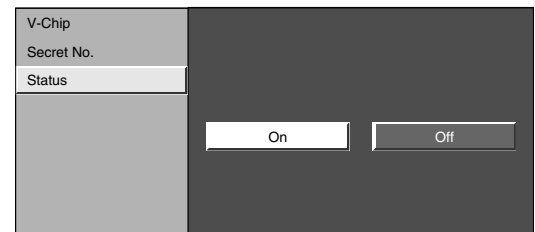
**3**

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

**4**

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

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



#### NOTE

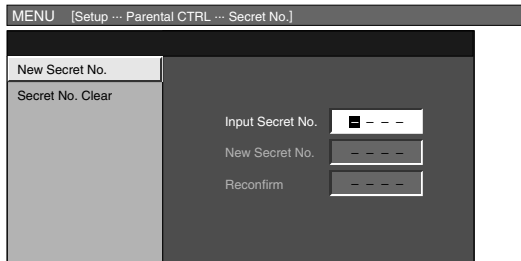
- You can skip step 1 and 2 above while in Parental CTRL screen.

## Useful adjustment settings

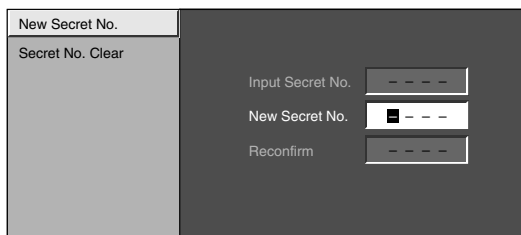
### Changing the secret number

Allows you to change your current secret number.

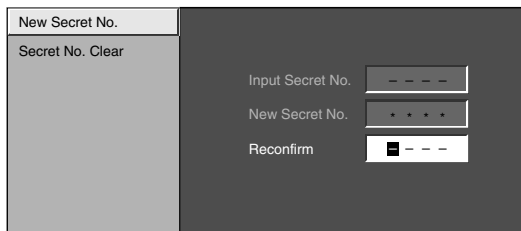
- 1 Repeat steps 1 to 3 in **Setting a secret number**.
  - Secret number setting menu displays.
- 2 Input the 4-digit secret number by using **0 – 9**.
- 3 Press **▲/▼** to select “Secret No.”, and then press **ENTER**.
- 4 Press **▲/▼** to select “New Secret No.”, and then press **ENTER**.
- 5 Input the old 4-digit number you have set using **0 – 9**.



- 6 Input the new 4-digit number using **0 – 9**.



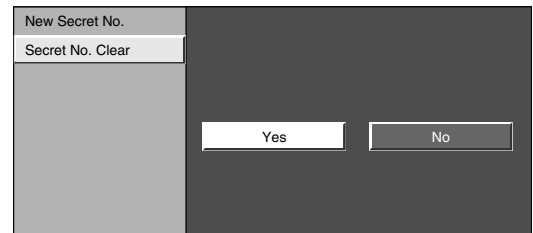
- 7 Input the same 4-digit number on the “Reconfirm” screen as in step 6 to confirm.



### Clearing the secret number

Allows you to clear your secret number.

- 1 Repeat steps 1 to 3 in **Setting a secret number**.
  - Secret number setting menu displays.
- 2 Input the 4-digit secret number by using **0 – 9**.
- 3 Press **▲/▼** to select “Secret No.”, and then press **ENTER**.
- 4 Press **▲/▼** to select “Secret No. Clear”, and then press **ENTER**.
- 5 Press **◀/▶** to select “Yes”, and then press **ENTER**.
  - Your secret number is cleared.



#### NOTE

- 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.

## Useful adjustment settings

### Parental control (setting V-CHIP level)

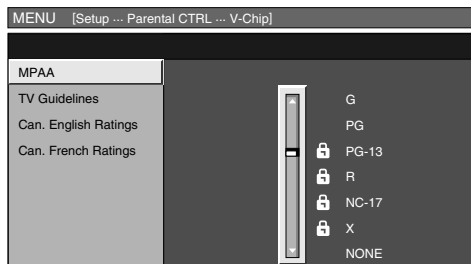
V-CHIP is an electronic filtering device built into your TV. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you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

| Rating |       | Description   |
|--------|-------|---|
| Age    | 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.                   |
|        | R     | Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions). |
|        | NC-17 | No one 17 and under admitted.   |
|        | X     | 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”.

#### NOTE

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

### TV Parental Guidelines

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

X: Content rating can be set.

## Useful adjustment settings

### Voluntary movie rating system (MPAA)

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

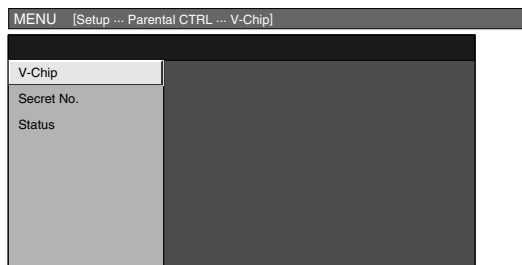
**2** Press **◀/▶** to select "Setup".

**3** Press **▲/▼** 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.)

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

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

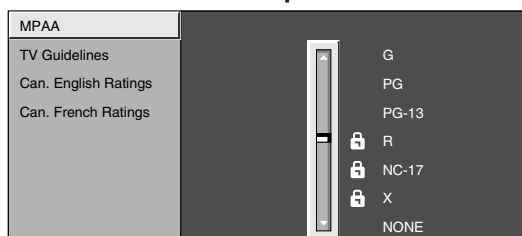


**6** Press **▲/▼** to select "MPAA", and then press **ENTER**.

**7** Press **▲/▼** to adjust the item to your desired position. "🔒" indicates the item is blocked. Press **RETURN**.

- 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



### TV Parental Guidelines (TV Guidelines)

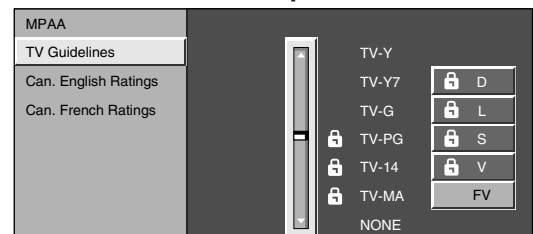
**1** Repeat steps 1 to 5 in **Voluntary movie rating system (MPAA)**.

**2** Press **▲/▼** to select "TV Guidelines", and then press **ENTER**.

**3** 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.

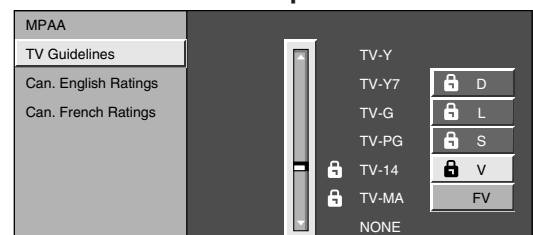
#### Example



When setting an individual content-based rating item, do as follows:

- ① Press **▶** to access block content items from the currently selected age-based rating item.
- ② Press **▲/▼** to select an individual item, and then press **ENTER** to unblock ("🔒" is removed). Repeat the same steps for other items.
- ③ Press **◀** or **RETURN** to register after all individual content rating items are set.

#### Example



- If Status is not set to "On" the configuration settings will not work. (See page 40.)

## Useful adjustment settings

### 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   |
|--------|-----|---|
| Age    | E   | Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.  |
|        | C   | 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.  |
|        | 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. |

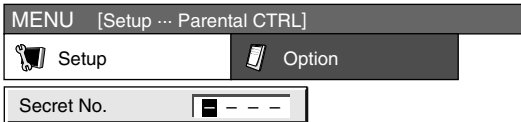
### Canadian French ratings

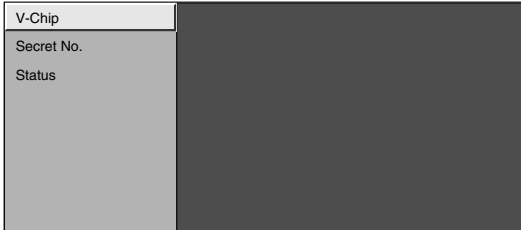
| Rating |        | Description   |
|--------|--------|---|
| Age    | E      | Exempt programming.   |
|        | G      | General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.  |
|        | 8ans+  | General but inadvisable 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.  |

## Useful adjustment settings

### Canadian English ratings

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** 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.)

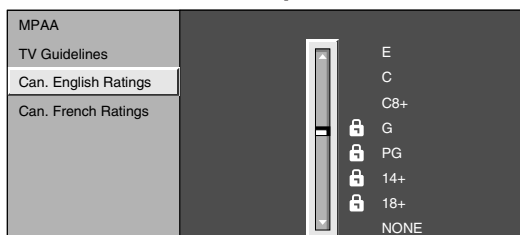
- 4 Input the 4-digit secret number by using **0 – 9**.
 

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

- 6 Press **▲/▼** to select "Can. English Ratings", and then press **ENTER**.

- 7 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

- 1 Repeat steps 1 to 5 in **Canadian English ratings**.
- 2 Press **▲/▼** to select "Can. French Ratings", and then press **ENTER**.
- 3 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



### How to temporarily release the V-CHIP BLOCK

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

- 1 Press **ENTER** while the V-CHIP is working and then the secret number setting menu displays.
- 2 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.

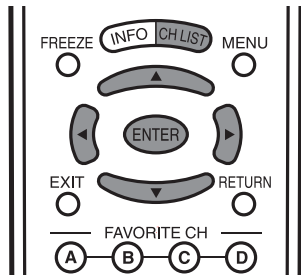
#### NOTE

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

# Other viewing options

## Viewing a list of channels

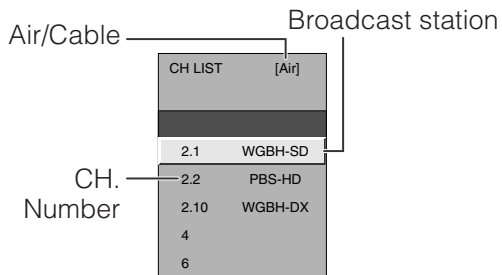
You can view a list of all currently available broadcast channels.



1

Press **CH LIST**.

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



(Example) Channel List Screen for Air Broadcasts

2

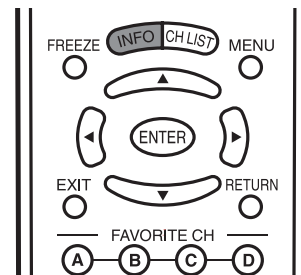
Press **▲/▼** to select the channel you want to watch, and then press **ENTER** to display the selected channel.

3

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

## Viewing information of the program

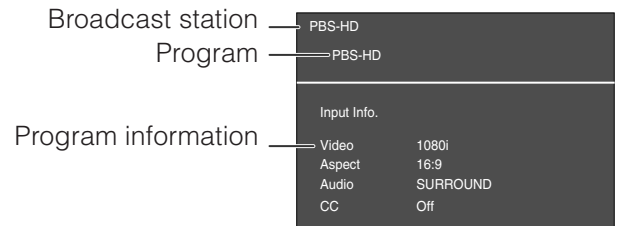
You can view information about a digital program you are currently watching.



1

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

- Information of the current program will be displayed.



Sample program information

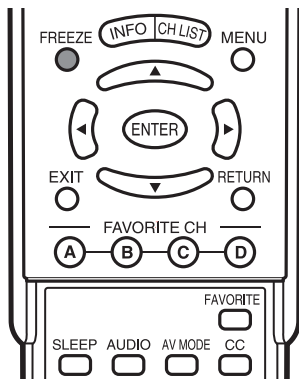
### NOTE

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

## Other viewing options

### Freezing images

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



- 1 Press **FREEZE**.
  - A moving image is captured.

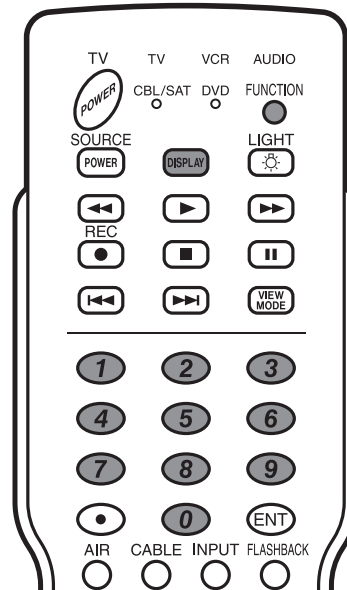
- 2 Press **FREEZE** again to cancel the function.

#### 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

- 1 Press **FUNCTION** until the LED for your device lights up.
- 2 After the LED for your device lights up, if you press **FUNCTION** and **DISPLAY** and enter the code registration mode, the LED will blink.
- 3 Press **0 – 9** to enter the manufacturer code. (See page 48.)
  - Preset mode is finished once the LED no longer lights up.
- 4 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.)



## Other viewing options

### Manufacturer codes

| VCR BRAND       | REMOTE CONTROL CODE NUMBER |
|-----------------|----------------------------|
| 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                     |
| Multitech       | 29                         |
| NEC             | 15, 22, 30                 |
| Panasonic       | 44, 45                     |
| Pentax          | 05, 06                     |
| Philco          | 05                         |
| Philips         | 05, 08                     |
| RCA             | 06, 07, 33, 51             |
| Realistic       | 01, 02, 10, 24             |
| Samsung         | 23, 31                     |
| Sanyo           | 10, 14, 52                 |
| Scott           | 20                         |
| Sears           | 06, 11, 24                 |
| Sharp           | 01, 02, 03                 |
| Shintom         | 36                         |
| Sony            | 12, 13, 38                 |
| Sound Design    | 29                         |
| Sylvania        | 05, 08                     |
| Symphonic       | 29                         |
| Tatung          | 15                         |
| Teac            | 15, 29                     |
| Teknika         | 27, 29                     |
| Thomas          | 29                         |
| TMK             | 21                         |
| Toshiba         | 19, 20                     |
| Video Concepts  | 30                         |
| Yamaha          | 15, 29, 30                 |
| Zenith          | 16                         |

| DVD/LD BRAND | REMOTE CONTROL CODE NUMBER |
|--------------|----------------------------|
| Denon        | 02                         |
| JVC          | 09, 13                     |
| Kenwood      | 21                         |
| Magnavox     | 04                         |
| Marantz      | 04                         |
| Mitsubishi   | 06                         |
| Panasonic    | 02, 22                     |
| Philips      | 04, 23                     |
| Pioneer      | 08, 11, 20                 |
| Proscan      | 03                         |
| RCA          | 03, 24                     |
| Samsung      | 07, 12                     |
| Sharp        | 01, 10                     |
| Sony         | 05, 25                     |
| Toshiba      | 04                         |
| Yamaha       | 02                         |
| Zenith       | 04                         |

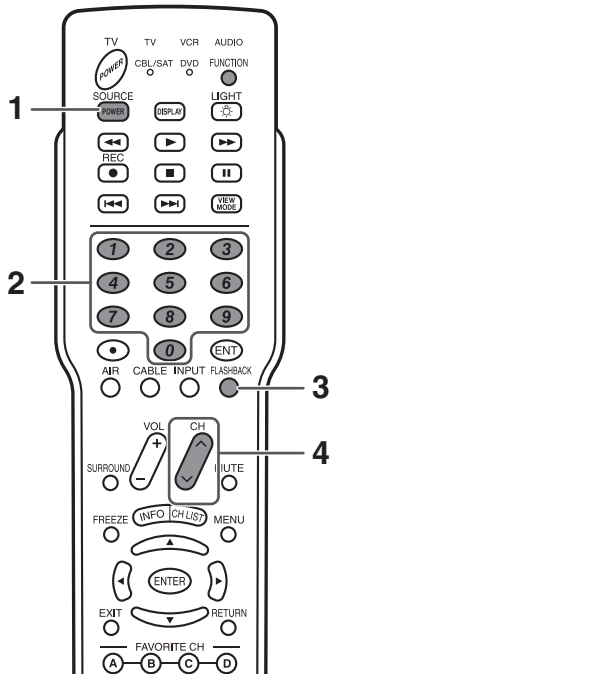
| CATV/SAT BRAND     | REMOTE CONTROL CODE NUMBER   |
|--------------------|--|
| Anvision           | 04, 05   |
| Cable Star         | 04, 05   |
| Eagle              | 05   |
| General Instrument | 02, 03, 07, 12, 13, 14, 19, 22   |
| Jerrold            | 02, 03, 07, 12, 13, 14, 19, 22, 31, 32, 33,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

#### NOTE

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

| AUDIO BRAND | REMOTE CONTROL CODE NUMBER |
|-------------|----------------------------|
| Sharp       | 01                         |

## Other viewing options



### Cable control buttons

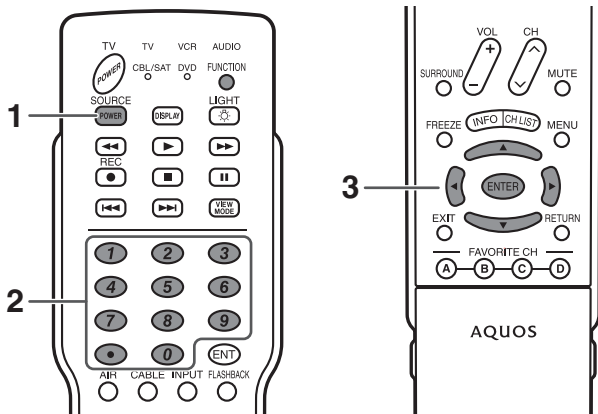
When the **FUNCTION** is set to CBL/SAT the cable converter connected to the TV can operate using **1** to **4**.

- 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 ^/V**  
Press **CH ^** or **CH V** to tune in a higher or lower channel.

\* Some manufacturers do not preset **FLASHBACK**.

#### NOTE

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

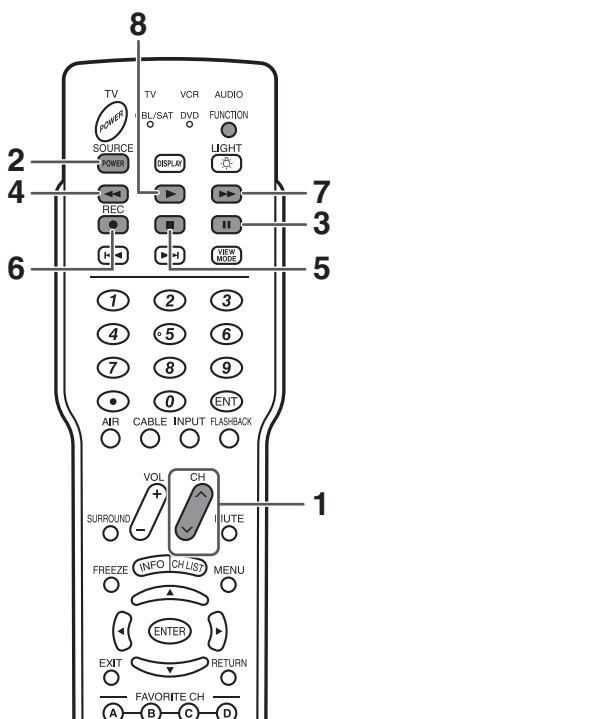


### SAT control buttons

- 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.



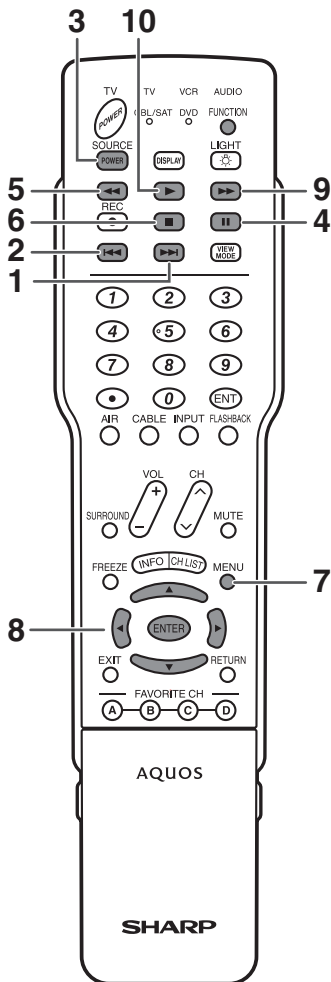
### VCR control buttons

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 ^/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.
- 4 ◀◀**  
Rewinds the tape and allows picture search.
- 5 ■**  
Stops the tape transport.
- 6 REC**  
Starts recording.
- 7 ▶▶**  
Rapidly advances the tape and allows picture search.
- 8 ▶**  
Starts playback.

## Other viewing options



## 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.

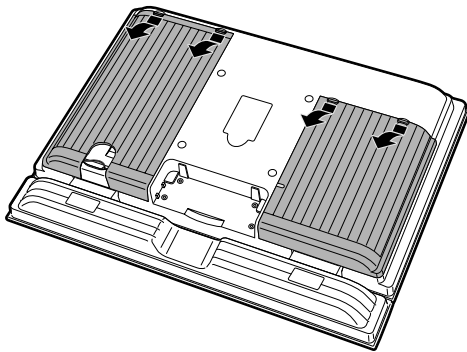
### NOTE

- 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

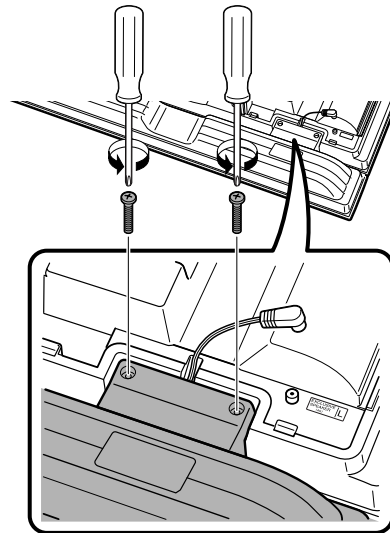
## Removing speakers

1



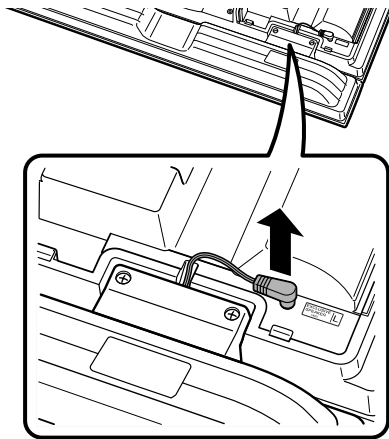
Remove the terminal cover.  
Perform the same steps for both sides.

3



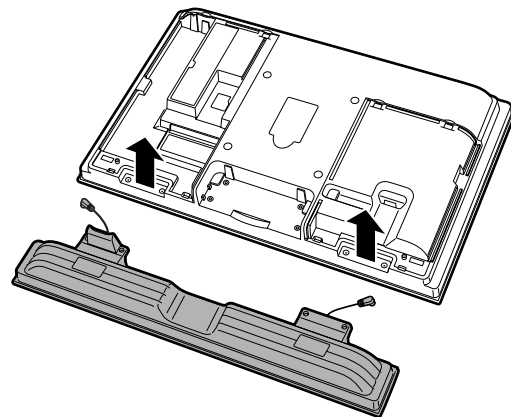
Unfasten the screws.  
Perform the same steps for both sides.

2



Unplug the speaker cable.  
Perform the same steps for both sides.

4



Lift, then remove the speaker box from the TV.

### CAUTION

- Do not remove the stand and speaker from the TV unless using an optional bracket to mount it.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

### NOTE

- To attach the speakers, perform the steps in reverse order.

## Appendix

### Removing the stand

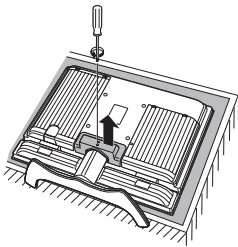
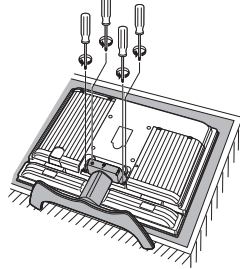
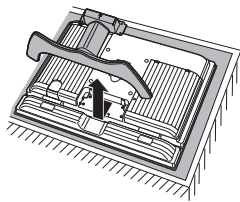
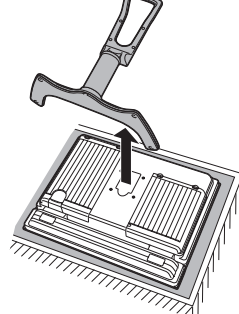
Before detaching (or attaching) stand, unplug the AC cord from the AC input terminal.

#### 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.

|  |  |   |  |
|--|--|---|--|
| <b>1</b><br><br>Unfasten the screw used to secure the bracket in place.<br>Start from step 2 for the 26 inch model to unfasten the screws. Note that the shape of each stand differs. | <b>2</b><br><br>Unfasten the four screws used to secure the stand in place. | <b>3</b> (LC-37/32D6U)<br><br>Detach the stand from the TV.<br>(Hold the stand so it will not drop from the edge of the base area.) | (LC-26D6U)<br><br>Detach the stand from the TV.<br>(Hold the stand so it will not drop from the edge of the base area.) |
|--|--|---|--|

#### 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.

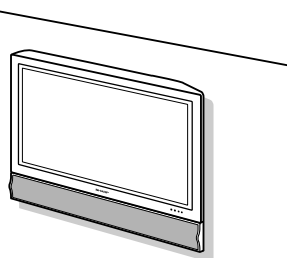
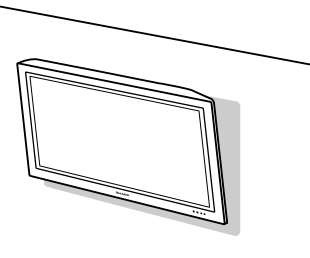
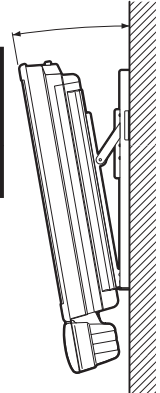
### Setting the TV on the wall

#### CAUTION

- 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.

| <b>Hanging on the wall</b><br>Wall mount bracket. (See the bracket instructions for details.)<br><br>Vertical mounting | <br>Angular mounting | <b>About setting the TV angle</b><br><table border="1"> <thead> <tr> <th></th> <th>Angle of TV</th> </tr> </thead> <tbody> <tr> <td>LC-37D6U</td> <td>5°</td> </tr> <tr> <td>LC-32D6U</td> <td>10°</td> </tr> </tbody> </table>  |  | Angle of TV | LC-37D6U | 5° | LC-32D6U | 10° |
|---|---|---|--|-------------|----------|----|----------|-----|
|   | Angle of TV   |   |  |             |          |    |          |     |
| LC-37D6U  | 5°  |   |  |             |          |    |          |     |
| LC-32D6U  | 10°   |   |  |             |          |    |          |     |

**Troubleshooting**

| Problem   | Possible Solution   |
|---|---|
| <ul style="list-style-type: none"> <li>No power</li> </ul>  | <ul style="list-style-type: none"> <li>Check if you pressed <b>TV POWER</b> on the remote control unit. (See page 14.)<br/>If the indicator on the TV is off, press <b>POWER</b> on the TV.</li> <li>Is the AC cord disconnected? (See page 6.)</li> </ul>  |
| <ul style="list-style-type: none"> <li>Unit cannot be operated.</li> </ul>                          | <ul style="list-style-type: none"> <li>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.</li> </ul>   |
| <ul style="list-style-type: none"> <li>Remote control unit does not operate.</li> </ul>             | <ul style="list-style-type: none"> <li>Is the <b>FUNCTION</b> set correctly? Set it to the TV setting position.</li> <li>Are batteries inserted with polarity (+, -) aligned? (See page 7.)</li> <li>Are batteries worn out? (Replace with new batteries.)</li> <li>Are you using it under strong or fluorescent lighting?</li> <li>Is a fluorescent light illuminated near the remote control sensor?</li> </ul>   |
| <ul style="list-style-type: none"> <li>Picture is cut off/with sidebar screen.</li> </ul>           | <ul style="list-style-type: none"> <li>Is the image position correct? (See page 32.)</li> <li>Are screen mode adjustments such as picture size made correctly? (See page 35.)</li> </ul>  |
| <ul style="list-style-type: none"> <li>Strange color, light color, or color misalignment</li> </ul> | <ul style="list-style-type: none"> <li>Adjust the picture tone. (See pages 25 to 26.)</li> <li>Is the room too bright? The picture may look dark in a room that is too bright.</li> </ul>   |
| <ul style="list-style-type: none"> <li>Power is suddenly turned off.</li> </ul>                     | <ul style="list-style-type: none"> <li>Is the sleep timer set? (See page 37.)</li> <li>Check the power control settings. (See page 28.)</li> <li>The unit's internal temperature has increased.<br/>Remove any objects blocking vent or clean the vent.</li> </ul>  |
| <ul style="list-style-type: none"> <li>No picture</li> </ul>  | <ul style="list-style-type: none"> <li>Is connection to other components correct? (See pages 30 to 31.)</li> <li>Is correct input signal source selected after connection? (See page 33.)</li> <li>Is the correct input selected? (See page 33.)</li> <li>Is picture adjustment correct? (See pages 25 to 26.)</li> <li>Is "On" selected in "Audio Only"? (See page 36.)</li> <li>If, after inserting the CableCARD security module, you are unable to receive broadcast service, remove the CableCARD security module and reinsert.</li> </ul> |
| <ul style="list-style-type: none"> <li>No sound</li> </ul>  | <ul style="list-style-type: none"> <li>Is the volume too low? (See page 17.)</li> <li>Is "Variable" selected in "Output Select"? (See page 36.)</li> </ul>  |
| <ul style="list-style-type: none"> <li>Upgrade is displayed continuously.</li> </ul>                | <ul style="list-style-type: none"> <li>Verify your antenna cable is connected properly.</li> <li>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.</li> </ul>  |

**Troubleshooting-Digital broadcasting**

■ The error message about reception of broadcast

| The example of an error message displayed on a screen                          | Error code  | Possible Solution   |
|--|-------------|---|
| <ul style="list-style-type: none"> <li>Failed to receive broadcast.</li> </ul> | <b>E202</b> | <ul style="list-style-type: none"> <li>Check the antenna cable. Check that the antenna is correctly setup.</li> </ul> |
| <ul style="list-style-type: none"> <li>No broadcast now.</li> </ul>            | <b>E203</b> | <ul style="list-style-type: none"> <li>Check the broadcast time in the program guide.</li> </ul>                      |

**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.

**NOTE**

- 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:

|                      |           |
|----------------------|-----------|
| <b>Baud rate:</b>    | 9,600 bps |
| <b>Data length:</b>  | 8 bits    |
| <b>Parity bit:</b>   | None      |
| <b>Stop bit:</b>     | 1 bit     |
| <b>Flow control:</b> | 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**

Eight ASCII codes + CR



**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.

|   |   |   |   |
|---|---|---|---|
| ? |   |   |   |
| ? | ? | ? | ? |

## Appendix

### Response code format

Normal response



Return code (ODH)

Problem response (communication error or incorrect command)



Return code (ODH)

### Command table

- Commands not indicated here are not guaranteed to operate.

| CONTROL ITEM      |                          | COMMAND       | PARAMETER                    | CONTROL CONTENTS  |   |   |
|-------------------|--------------------------|---------------|------------------------------|---|---|---|
| POWER SETTING     |                          | P : O : W : R | 0 _ _ _                      | It shifts to standby.   |   |   |
| INPUT SELECTION A | TOGGLE                   | I : T : G : D | x _ _ _ (Toggle)             | It input-switches by the toggle. (It is the same as an input change key)    |   |   |
|                   | TV                       | I : T : V : D | x _ _ _                      | It input-switches to TV. (A channel remains as it is. (Last memory))        |   |   |
|                   | INPUT1-4                 | I : A : V : D | * _ _ _                      | It input-switches to INPUT1~INPUT4.   |   |   |
| INPUT SELECTION B | INPUT 1                  | I : N : P : 1 | 0 _ _ _                      | AUTO  | An input change is also included.   |   |
|                   |                          |               | 1 _ _ _                      | VIDEO   |   |   |
|                   |                          |               | 2 _ _ _                      | COMPONENT   |   |   |
|                   | INPUT 2                  | I : N : P : 2 | 0 _ _ _                      | AUTO  |   |   |
|                   |                          |               | 1 _ _ _                      | VIDEO   |   |   |
|                   |                          |               | 2 _ _ _                      | COMPONENT   |   |   |
| AV MODE SELECTION |                          | A : V : M : D | 0 _ _ _ (Toggle)             | Although it can choose now, it is toggle operation in inside.               |   |   |
|                   |                          |               | 1 _ _ _                      | STANDARD  |   |   |
|                   |                          |               | 2 _ _ _                      | MOVIE   |   |   |
|                   |                          |               | 3 _ _ _                      | GAME  |   |   |
|                   |                          |               | 4 _ _ _                      | USER  |   |   |
|                   |                          |               | 5 _ _ _                      | DYNAMIC (Fixed)   |   |   |
|                   |                          |               | 6 _ _ _                      | DYNAMIC   |   |   |
| VOLUME            |                          | V : O : L : M | * * _ _                      | Volume (0-60)   |   |   |
| POSITION          | H-POSITION               | H : P : O : S | * * * _                      | AV mode. (± 10)   |   |   |
|                   | V-POSITION               | V : P : O : S | * * * _                      | AV mode. (± 20)   |   |   |
| VIEWMODE          |                          | W : I : D : E | 0 _ _ _ (Toggle) [AV]        | Although it can choose now, it is toggle operation in inside.               |   |   |
|                   |                          |               | 1 _ _ _                      | Side Bar [AV]   |   |   |
|                   |                          |               | 2 _ _ _                      | S.Stretch [AV]  |   |   |
|                   |                          |               | 3 _ _ _                      | Zoom [AV]   |   |   |
|                   |                          |               | 4 _ _ _                      | Stretch [AV]  |   |   |
| MUTE              |                          | M : U : T : E | 0 _ _ _ (Toggle)             |   |   |   |
|                   |                          |               | 1 _ _ _                      | On  |   |   |
|                   |                          |               | 2 _ _ _                      | Off   |   |   |
| SURROUND          |                          | A : C : S : U | 0 _ _ _ (Toggle)             |   |   |   |
|                   |                          |               | 1 _ _ _                      | On  |   |   |
|                   |                          |               | 2 _ _ _                      | Off   |   |   |
| AUDIO SELECTION   |                          | A : C : H : A | x _ _ _ (Toggle)             |   |   |   |
| SLEEP TIMER       |                          | O : F : T : M | 0 _ _ _ OFF                  |   |   |   |
|                   |                          |               | 1 _ _ _                      | OFF TIMER – 30 MIN.   |   |   |
|                   |                          |               | 2 _ _ _                      | OFF TIMER – 60 MIN.   |   |   |
|                   |                          |               | 3 _ _ _                      | OFF TIMER – 90 MIN.   |   |   |
|                   |                          |               | 4 _ _ _                      | OFF TIMER – 120 MIN.  |   |   |
| CHANNEL           | DIRECT CHANNEL (ANALOG)  | D : C : C : H | * * * _                      | The channel number of TV (1-125)  | An input change is included if it is not TV display.<br>In Air, 2-69ch is effective.<br>In Cable, 1-125ch is effective. |   |
|                   |                          |               | (0101-9999)                  | DIGITAL Air (Two-Part numbers, 2-digit plus 2-digit)                        |   |   |
|                   | DIRECT CHANNEL (DIGITAL) | D : C : 2 : U | * * * _                      | (0-999)   |   | DIGITAL Cable (Two-Part numbers, 3-digit plus 3-digit)            |
|                   |                          |               | * * * _                      | (0-999)   |   | Front half of DIGITAL CABLE CHANNEL NO. (Designate major channel) |
|                   |                          |               | * * * _                      | (0-999)   |   | DIGITAL Cable (Two-Part numbers, 3-digit plus 3-digit)            |
|                   |                          |               | * * * _                      | (0-999)   |   | Rear half of DIGITAL CABLE CHANNEL NO. (Designate minor channel)  |
|                   |                          | D : C : 1 : 0 | * * * _                      | (0-9999)  |   | DIGITAL Cable (One-Part numbers, 5-digit, less than 10,000)       |
|                   | D : C : 1 : 1            | * * * _       | (0-6383)                     | DIGITAL Cable (One-Part numbers, 5-digit, more than 10,000)                 |   |   |
| CH UP             | C : H : U : P            | x _ _ _       | The channel number of TV + 1 | If it is not TV display, it will input-switch to TV. (same function as CH▲) |   |   |
| CH DOWN           | C : H : D : W            | x _ _ _       | The channel number of TV - 1 | If it is not TV display, it will input-switch to TV. (same function as CH▼) |   |   |
| Air/Cable SELECT  |                          | A : C : S : L | 0 _ _ _ (Toggle)             | AIR → CABLE → AIR   |   |   |
|                   |                          |               | 1 _ _ _                      | AIR   |   |   |
|                   |                          |               | 2 _ _ _                      | CABLE   |   |   |
| CC                |                          | C : L : C : P | x _ _ _ (Toggle)             | Toggle operation of a closed caption.                                       |   |   |

### 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 (x) in the table is a numerical value, it may write anything.



## Appendix

### Specifications

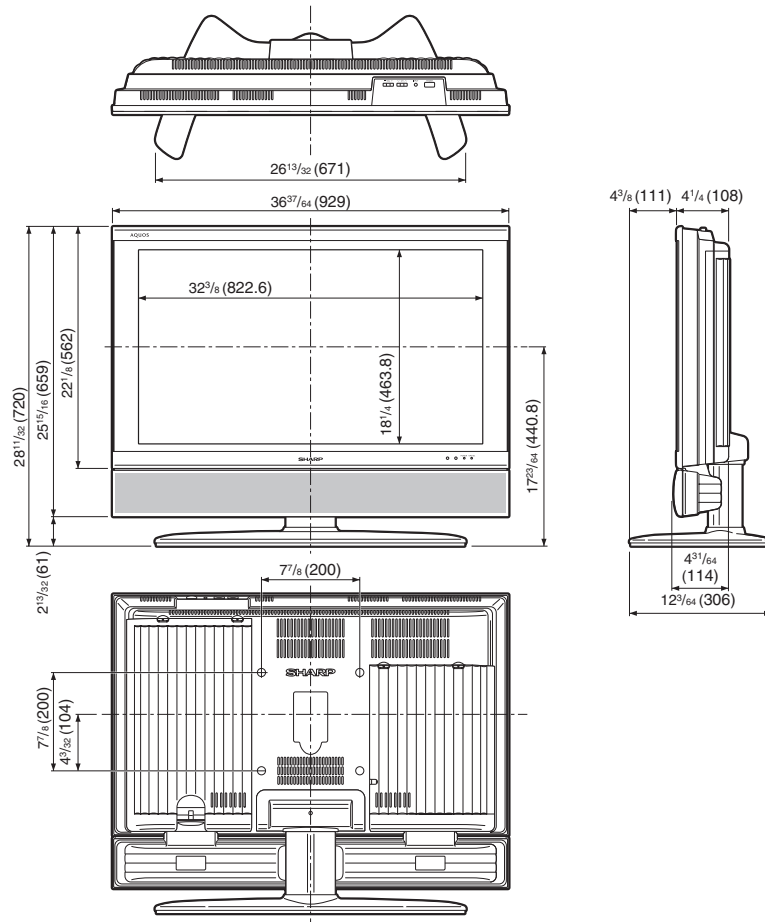
| Item                              |                      | Model: LC-37D6U  | Model: LC-32D6U   | Model: LC-26D6U   |
|-----------------------------------|----------------------|--|---|---|
| LCD panel                         |                      | 37" Advanced Super View & BLACK TFT LCD  | 32" Advanced Super View & BLACK TFT LCD                               | 26" Advanced Super View & BLACK TFT LCD                         |
| Number of dots                    |                      | 3,147,264 dots (1366 × 768 × 3 dots)   |   |   |
| TV Function                       | TV-standard (CCIR)   | American TV Standard ATSC/NTSC System  |   |   |
|                                   | Receiving Channel    | VHF/UHF  | VHF 2-13ch, UHF 14-69ch   |   |
|                                   |                      | CATV   | 1-125ch   |   |
|                                   |                      | Digital Terrestrial Broadcast (8VSB)   | 2-69ch  |   |
|                                   |                      | Digital cable (64/256 QAM)   | 1-135ch   |   |
| Audio multiplex                   |                      | BTSC System  |   |   |
| Brightness                        |                      | 450 cd/m <sup>2</sup>  |   |   |
| Backlight Life                    |                      | 60,000 hours (at Backlight Standard position)  |   |   |
| Viewing angles                    |                      | H : 170° V : 170°  |   |   |
| Audio out                         |                      | 10W × 2  |   |   |
| Terminals                         | Rear                 | INPUT 1  | AV in, COMPONENT in   |   |
|                                   |                      | INPUT 2  | AV in, COMPONENT in   |   |
|                                   |                      | INPUT 3  | S-VIDEO in, AV in   |   |
|                                   |                      | INPUT 4  | Audio in, HDMI in with HDCP   |   |
|                                   |                      | ANALOG ANTENNA   | 75 Ω Unbalance, F Type for VHF/UHF/CATV in × 1                        |   |
|                                   |                      | DIGITAL ANTENNA  | 75 Ω Unbalance, F Type × 2 (for Digital Air × 1/Digital Cable in × 1) |   |
|                                   |                      | MONITOR OUTPUT   | S-VIDEO out, AV out   |   |
|                                   |                      | DIGITAL AUDIO OUTPUT   | Optical Digital audio output × 1 (PCM/Dolby Digital)                  |   |
|                                   |                      | CableCARD slot   | 68 pin PCMCIA × 1   |   |
| OSD language                      |                      | English/French/Spanish   |   |   |
| Power Requirement                 |                      | AC 120 V, 60 Hz  |   |   |
| Power Consumption                 |                      | 188 W  | 146 W   | 124 W   |
| Weight                            | TV only              | 48.5 lbs./22.0 kg  | 38.6 lbs./17.5 kg   | 29.3 lbs./13.3 kg   |
|                                   | Stand                | 12.1 lbs./5.5 kg   | 8.8 lbs./4.0 kg   | 8.2 lbs./3.7 kg   |
|                                   | TV with stand        | 60.6 lbs./27.5 kg  | 47.4 lbs./21.5 kg   | 37.5 lbs./17.0 kg   |
| Dimension (W × H × D) (in inches) | TV + stand + speaker | 36 <sup>37/64</sup> × 28 <sup>11/32</sup> × 12 <sup>3/64</sup>   | 31 <sup>49/64</sup> × 25 <sup>21/32</sup> × 11 <sup>3/8</sup>         | 26 <sup>17/32</sup> × 22 <sup>21/64</sup> × 10 <sup>35/64</sup> |
|                                   | TV + stand           | 36 <sup>37/64</sup> × 28 <sup>11/32</sup> × 12 <sup>3/64</sup>   | 31 <sup>49/64</sup> × 25 <sup>21/32</sup> × 11 <sup>3/8</sup>         | 26 <sup>17/32</sup> × 22 <sup>21/64</sup> × 10 <sup>35/64</sup> |
|                                   | TV + speaker         | 36 <sup>37/64</sup> × 25 <sup>15/16</sup> × 4 <sup>31/64</sup>   | 31 <sup>49/64</sup> × 23 <sup>7/32</sup> × 4 <sup>31/64</sup>         | 26 <sup>17/32</sup> × 20 <sup>5/16</sup> × 4 <sup>31/64</sup>   |
|                                   | TV only              | 36 <sup>37/64</sup> × 22 <sup>1/8</sup> × 4 <sup>1/4</sup>   | 31 <sup>49/64</sup> × 19 <sup>13/32</sup> × 4 <sup>1/4</sup>          | 26 <sup>17/32</sup> × 16 <sup>29/64</sup> × 4 <sup>1/4</sup>    |
| Accessories                       |                      | Operation manual (× 1), Remote control unit (× 1), AC cord (× 1), "AAA" size battery (× 2), Cable clamp (× 1), Cable tie (× 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.

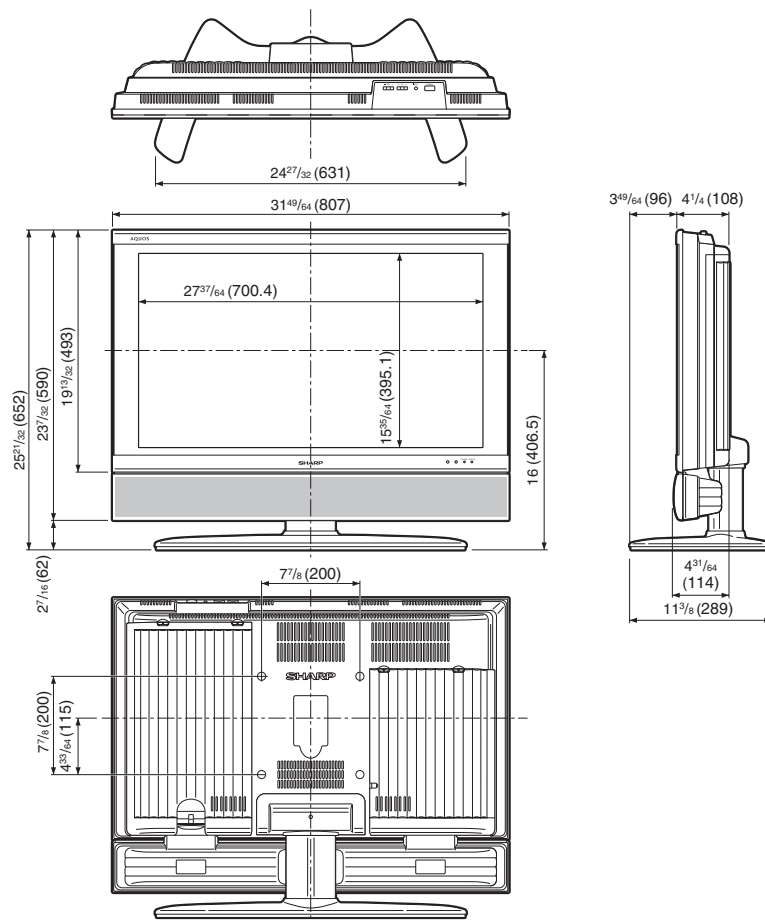
# Dimensional drawings

LC-37D6U

Unit: inch/(mm)



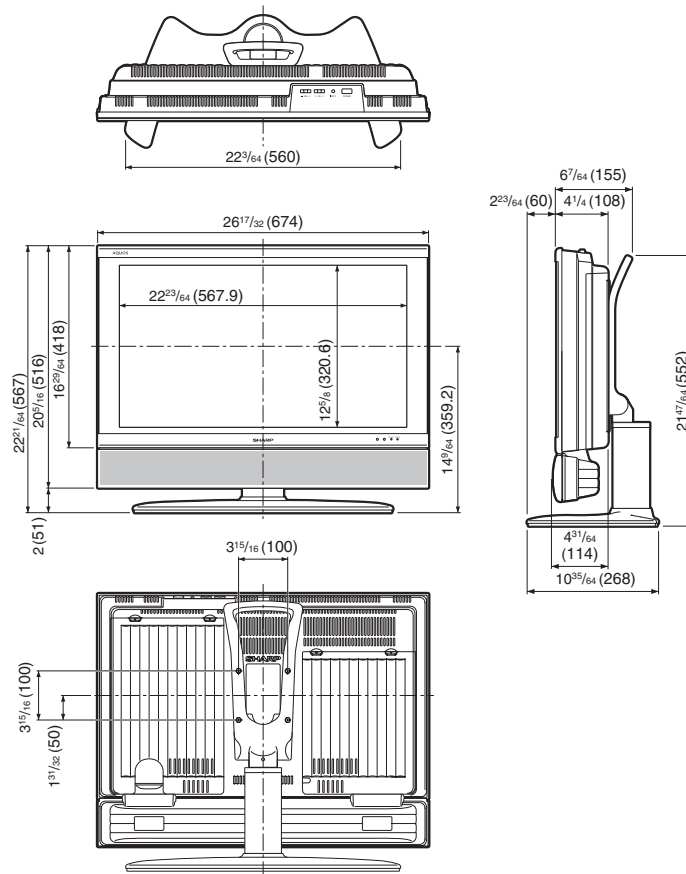
LC-32D6U



## Dimensional drawings

LC-26D6U

Unit: inch/(mm)



### 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.

#### 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.

The secret number is

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

#### 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-37D6U • LC-32D6U • LC-26D6U 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.

**Additional Item(s) Excluded from Warranty Coverage (if any):**

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: LC37D6U/LC-32D6U**

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-26D6U**

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, CALL 1-800-BE-SHARP OR VISIT [www.sharppusa.com](http://www.sharppusa.com)

# SHARP®

## SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

### SHARP CORPORATION

# 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.
- (b) 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.
- (c) Damage caused or repairs required as a result of the use with items not specified or approved by Sharp, including but not limited to head cleaning tapes and chemical cleaning agents.
- (d) 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.
- (e) Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.
- (f) Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
- (g) Any product received without appropriate model, serial number and CSA/cUL markings.
- (h) Any products used for rental or commercial purposes.
- (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.

**WARRANTY 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](http://www.sharp.ca)

