

SHARP®

LC-26DA5U LC-32DA5U

LIQUID CRYSTAL TELEVISION

TÉLÉVISEUR ACL

TELEVISOR CON PANTALLA DE CRISTAL LIQUIDO

TELEVISOR DE CRISTAL LÍQUIDO

OPERATION MANUAL

MODE D'EMPLOI

MANUAL DE OPERACIÓN

MANUAL DE OPERAÇÃO

AQUOS

NOM 1245



Products that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency.

Les produits agréés ENERGY STAR® sont conçus pour protéger l'environnement par un rendement énergétique supérieur.

BBE
Mach3Bass
DIGITAL

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

HIGH DEFINITION TELEVISION
HDTV
MONITOR

ENGLISH

FRANÇAIS

ESPAÑOL

PORTUGUÊS

LC-26DA5U LC-32DA5U

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-32DA5U 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.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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



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

IMPORTANT INFORMATION

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

CAUTION:

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



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

CAUTION:

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

DECLARATION OF CONFORMITY

SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-26DA5U

SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-32DA5U

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

RESPONSIBLE PARTY:

SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

TEL: 1-800-BE-SHARP

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

INFORMATION:

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

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

Trademarks

• "HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."

- Manufactured under license from BBE Sound, Inc.
Licensed by BBE Sound, Inc. under USP5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
- BBE Mach3Bass extends the bass response of a given loudspeaker and provides deep, tight and musically accurate bass frequencies.

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.

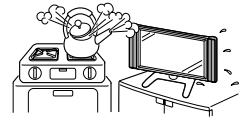


Additional Safety Information

- 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

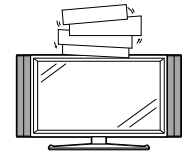
- **Water and Moisture** — Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.



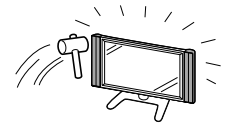
- **Stand** — Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer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



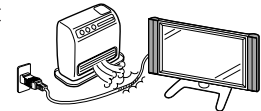
- **Ventilation** — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface,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



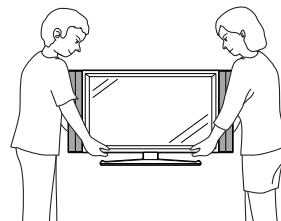
- **Heat** — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



- 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

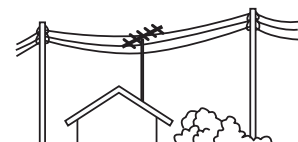
When transporting the TV, never carry it by holding onto the speaker. Be sure to always carry the TV by two people holding it with two hands—one hand on each side of the TV.



- **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.



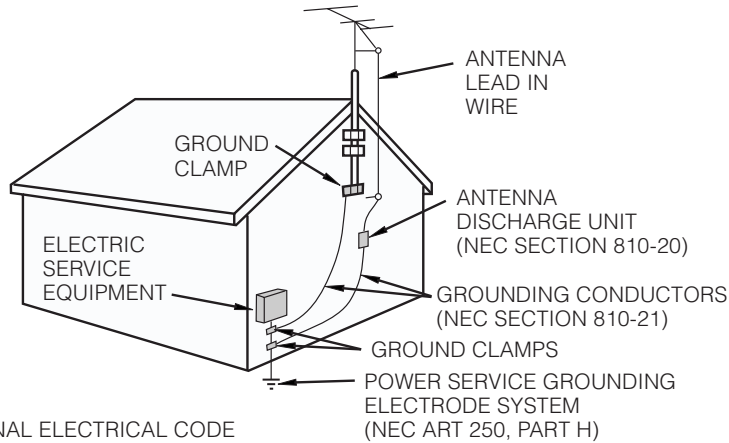
- **Power Lines** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching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



IMPORTANT SAFETY INSTRUCTIONS

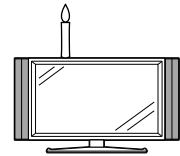
- Outdoor Antenna Grounding — If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with 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



NEC —NATIONAL ELECTRICAL CODE

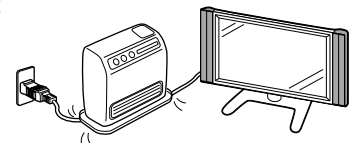
- To prevent fire, never place any type of candle or flames on the top or near the TV set.



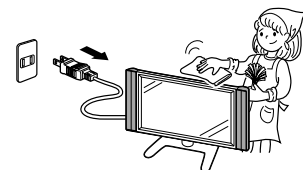
- To prevent fire or shock hazard, do not expose this product to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the product.



- 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 display 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.



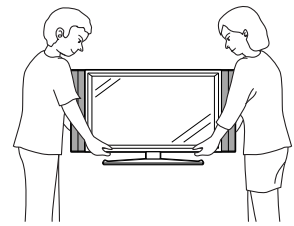
- Do not display a still picture for a long time, as this could cause an afterimage to remain.

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.

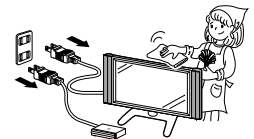
1. Use the cardboard holders on either side of the AQUOS television to remove it from the box.
2. Remove the cardboard; however, keep the wrapping on the AQUOS television to protect it while moving.
3. Lift onto installation location as the diagram illustrates.



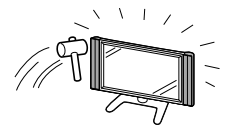
Ventilation & Cleaning Tips

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.

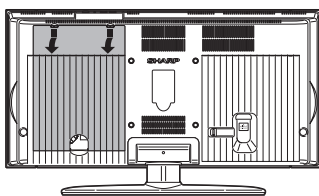


The screen is glass and can be scratched or broken when dropped or impacted.



QUICK INSTALLATION TIPS

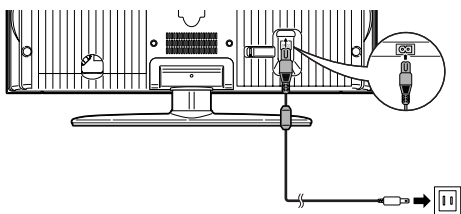
1. Facing the back of the AQUOS television, remove the terminal cover.



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

2. Attach your antenna to the back of the TV. (See page 12.)

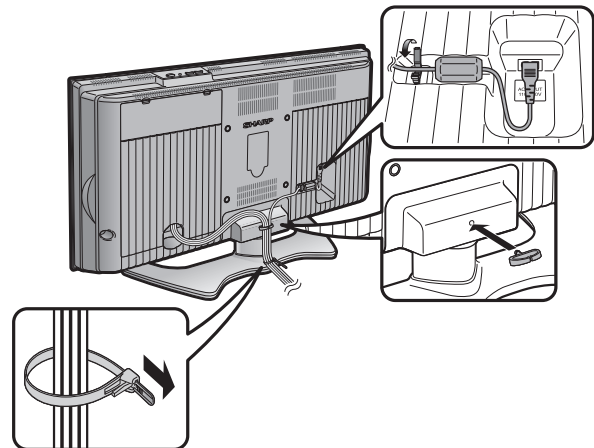
3. Connect the AC plug for the AQUOS television into the wall outlet.



CAUTION

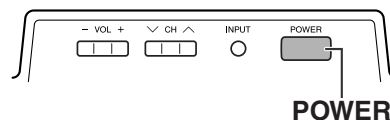
- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.

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.

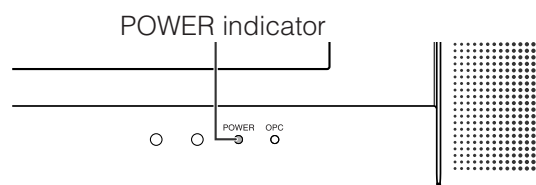


5. How to turn on the AQUOS television for the first time.

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



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



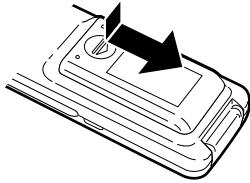
NOTE

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

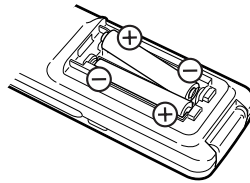
QUICK REFERENCE

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

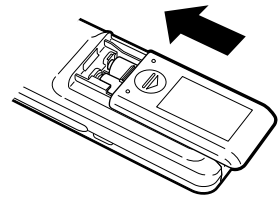
1 Open the battery cover.



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



3 Close the battery cover.

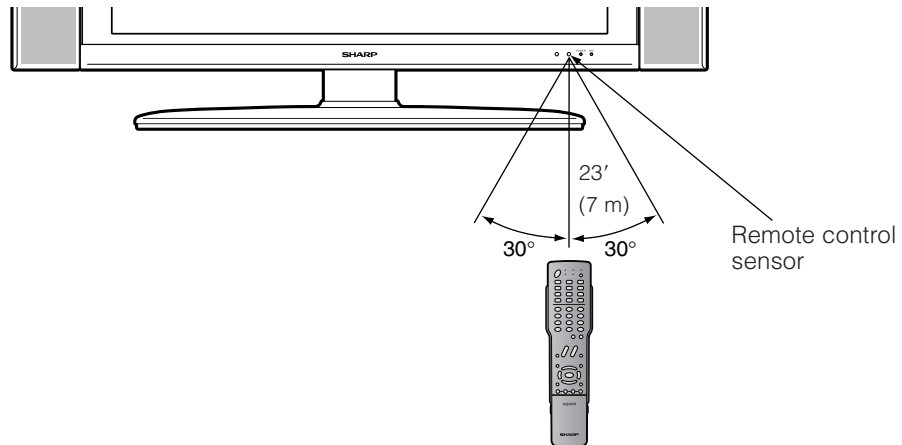


- Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

CAUTION

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

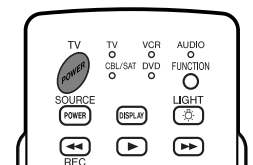
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals that leak from batteries 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 GREEN indicating you have power to the AQUOS television.

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



IMPORTANT:

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

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

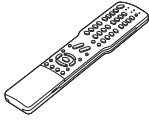

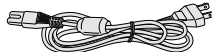

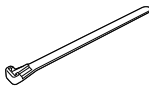

Please refer to the BASIC ADJUSTMENT SETTINGS SECTION for EZ setup and basic channel setup functions and USING EXTERNAL EQUIPMENT SECTION for other device connections (DVD, VCR, AUDIO, etc) in your AQUOS operation manual.

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Supplied accessories

Make sure the following accessories are provided with the product.

Remote control unit (× 1)  Page 7	"AAA" size battery (× 2)  Page 7	AC cord (× 1)  Page 6
Cable Clamp (× 1)  Page 6	Cable tie (× 1)  Page 6	Operation manual (× 1) 

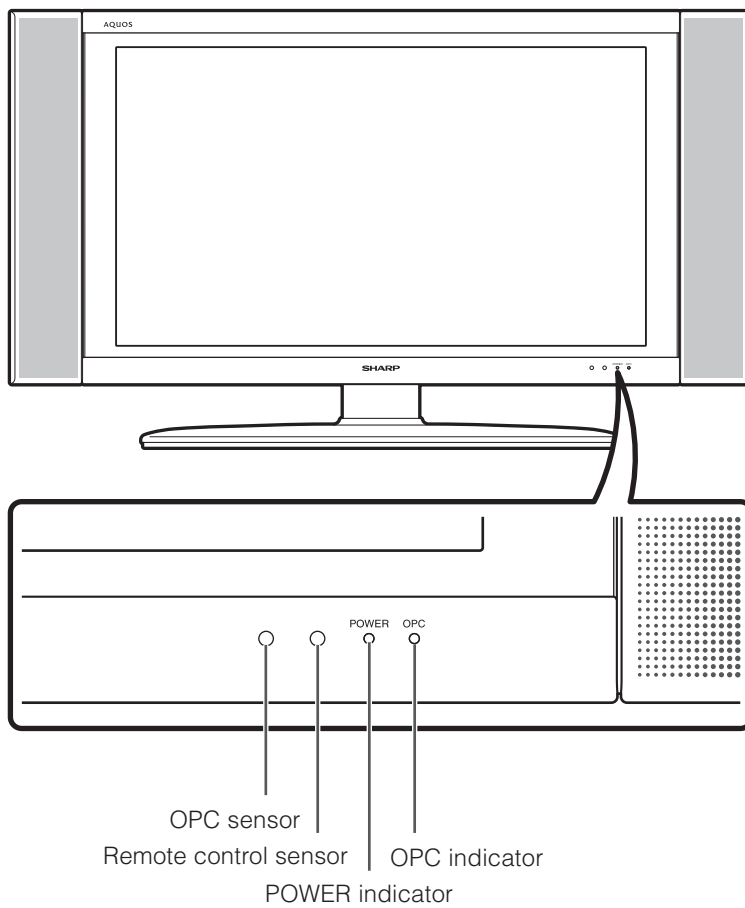
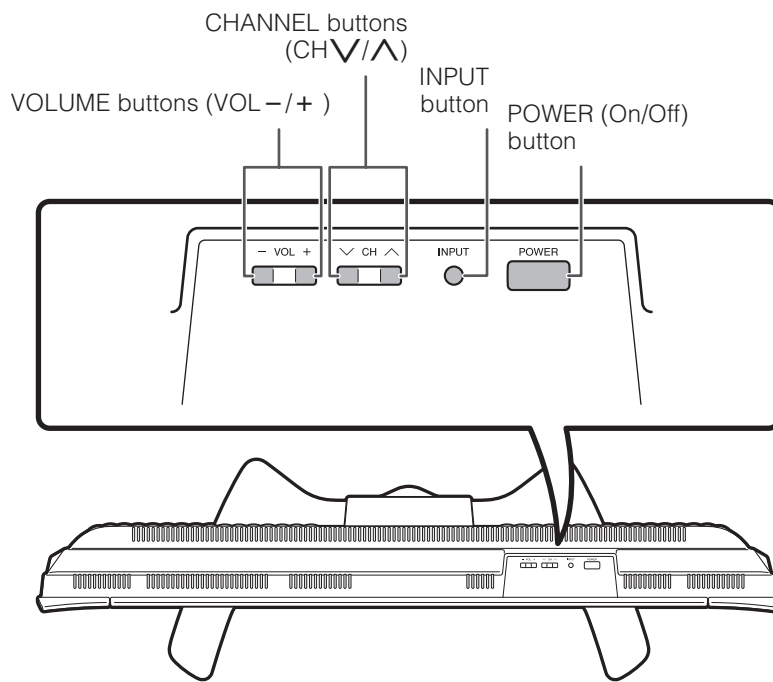
NOTE

- Always use the AC cord supplied with the TV.
- AC cord enclosed in this product is for 110-125V. In using it on the 125-240V AC, please consult to the following.

SHARP ELECTRONICS CORPORATION
6100 Blue Lagoon Drive, Suite 230, Miami, Florida 33126, U.S.A.

Part names

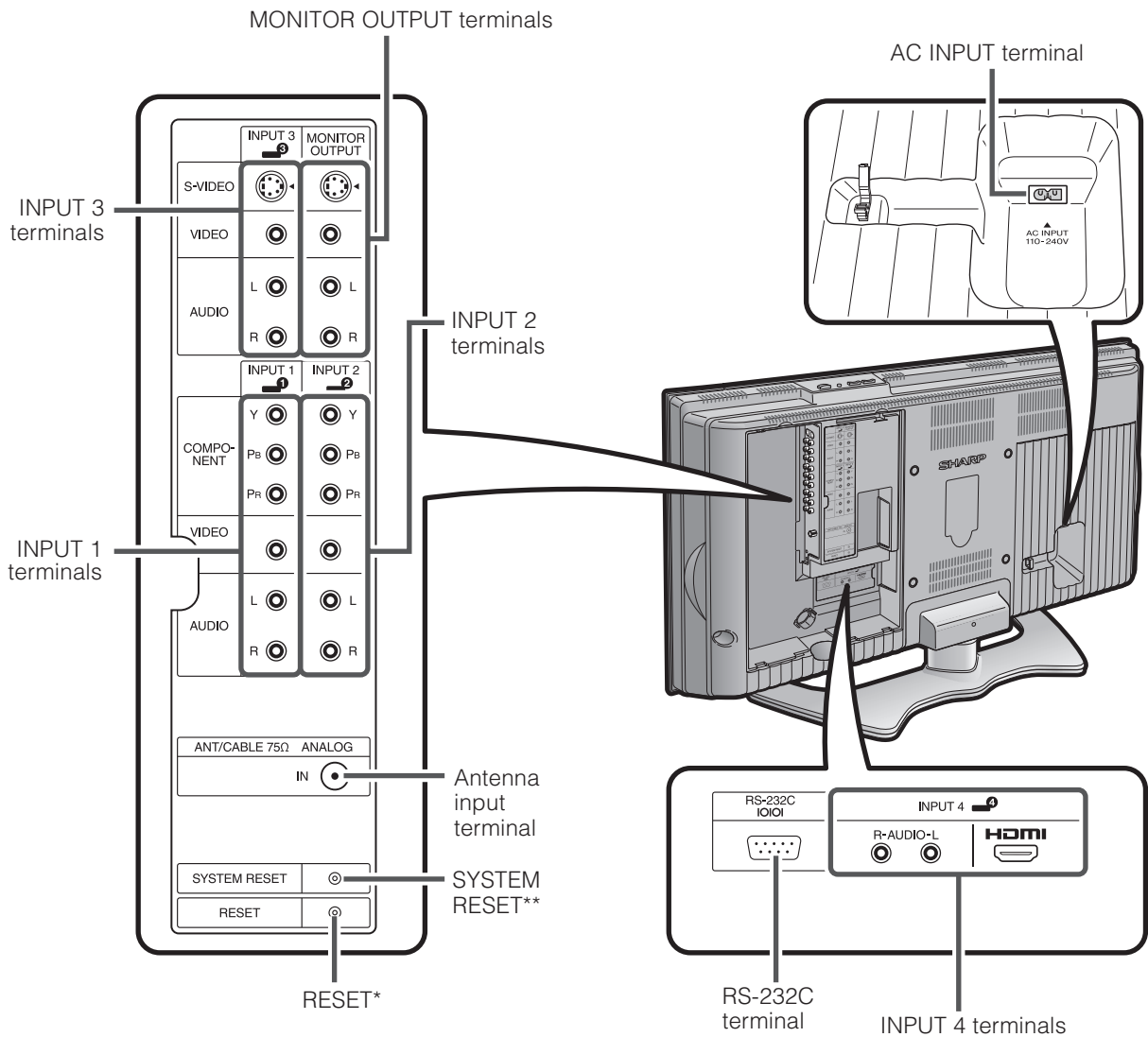
TV



*OPC: Optical Picture Control
(See page 21.)

Part names

TV



* 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 setting (Air: 2ch, Cable:1 or 2ch)
- Audio setting initializes
- Surround resets to Off
- Image position initializes

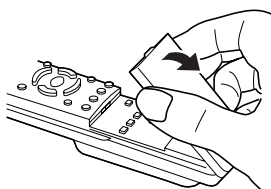
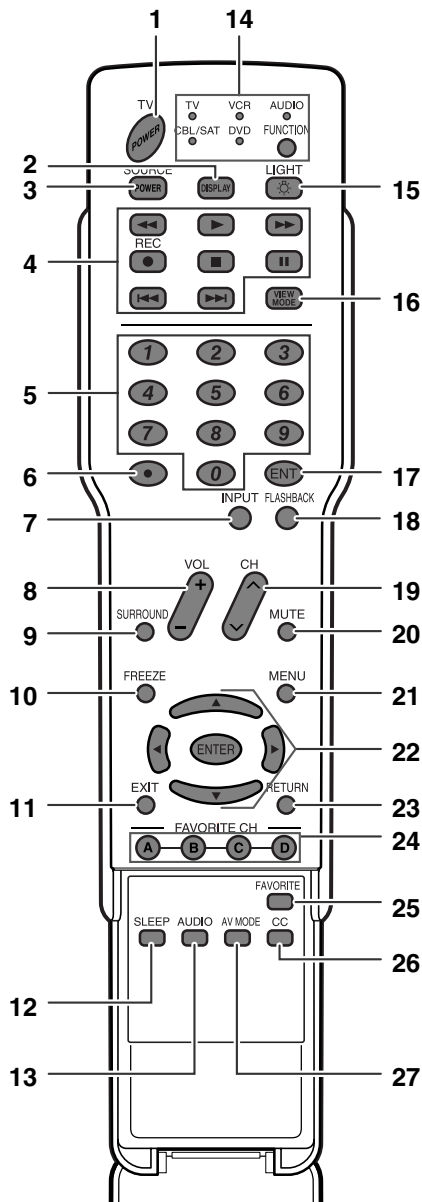
** Press **SYSTEM RESET** if the TV does not operate after starting up.

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 36 for clearing the secret number when you know it. See page 51 for initializing to the factory preset values when you forget your secret number.

Part names

Remote control unit



- 1 **TV POWER:** Switch the TV power on or standby. (See page 13.)
- 2 **DISPLAY:** Display the channel information.
- 3 **SOURCE POWER:** Turns the power of the external equipment on and off.
- 4 **External equipment operational buttons:** Operate the external equipment.
- 5 **0 – 9:** Set the channel. (See page 15.)
- 6 **• (DOT)** (See page 43.)
- 7 **INPUT:** Select a TV input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4) (See pages 25 and 29.)
- 8 **VOL +/-:** Set the volume. (See page 16.)
- 9 **SURROUND:** Select Surround settings. (See page 16.)
- 10 **FREEZE:** Set the still image. Press again to return to normal screen. (See page 41.)
- 11 **EXIT:** Turn off the menu screen.
- 12 **SLEEP:** Set the sleep timer. (See page 33.)
- 13 **AUDIO:** Select the MTS/SAP. (See page 17.)
- 14 **FUNCTION:** Switches the remote control for TV, CBL/SAT, VCR, DVD and AUDIO operation. Indicator lights up for the current mode. (See pages 41 to 44 for details.)
* To enter the code registration mode, you need to press **FUNCTION** and **DISPLAY** at the same time.
- 15 **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 dark places.
- 16 **VIEW MODE:** Select the screen size. (See page 31.)
- 17 **ENT:** Enters a channel selection when choosing with the 0-9 buttons.
- 18 **FLASHBACK:** Return to the previous channel or input external mode. (See page 15.)
- 19 **CH \wedge/\vee :** Select the channel. (See page 15.)
- 20 **MUTE:** Mute the sound. (See page 16.)
- 21 **MENU:** Display the menu screen.
- 22 **$\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ /ENTER:** Select a desired item on the screen.
- 23 **RETURN:** Return to the previous menu screen.
- 24 **FAVORITE CH**
A, B, C, D: Select four preset favorite channels in four different categories. (See page 20 for details.)

While watching, you can toggle the selected channels by pressing A, B, C and D.
- 25 **FAVORITE:** Register favorite channel. (See page 20.)
- 26 **CC:** Display captions during closed-caption source. (See page 34.)
- 27 **AV MODE:** Select an audio or video setting. (STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC.) (See page 31.)

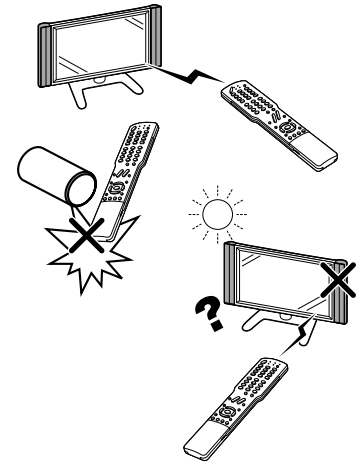
NOTE

- When using the remote control unit, point it at the TV.

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

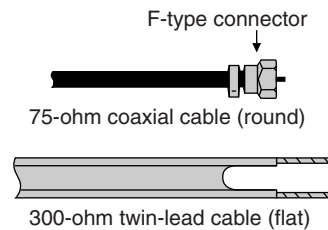
To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the TV set.

NOTE

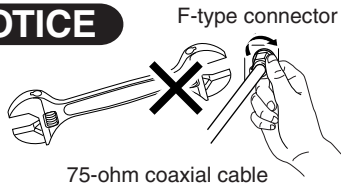
- The antenna and the cable converter cannot be connected at the same time.

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

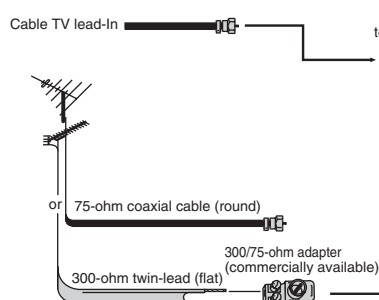


F-type connector should be finger-tightened only.

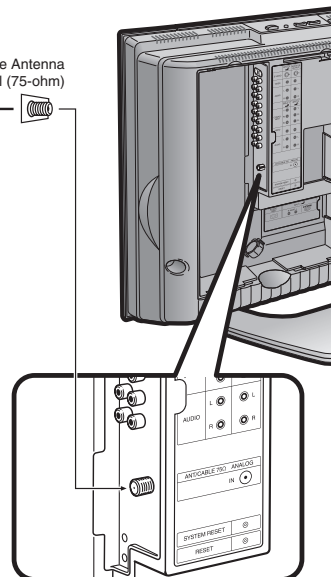
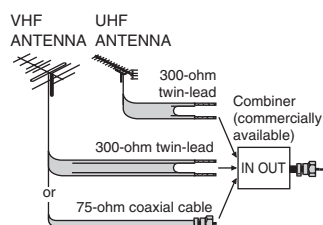
When connecting the RF cable to the TV set, do not tighten F-type connector with tools. If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.)

Connecting Antenna Cable

Cable without a CATV converter
Combination VHF/UHF antenna

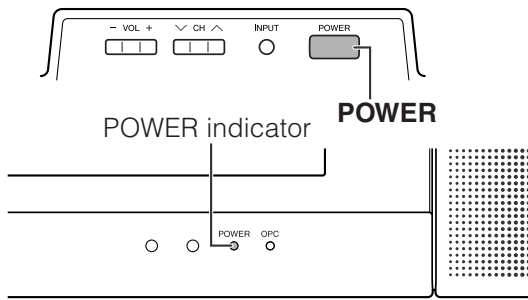


Separate VHF/UHF antenna



Watching TV

Simple operations for watching a TV program



Turning on the power

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

- **POWER** indicator (Green): 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 initial setup will not be invoked. See page 19 to try EZ setup from the Setup menu.

Turning off the power

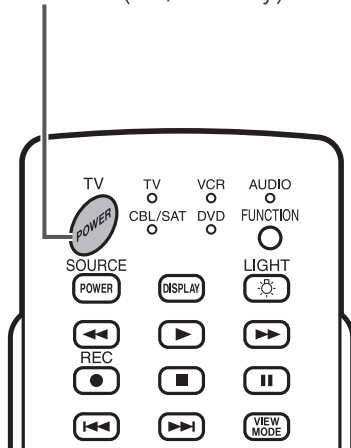
Press **POWER** on the TV, or **TV POWER** on the remote control.

- 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.
- Weak electric power is still consumed even when **POWER** is turned off.

TV POWER (On/Standby)



Display status indicator

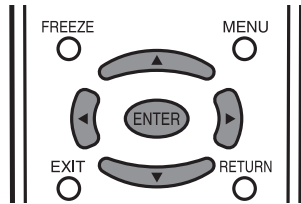
Off	Power off/standby
Green	The TV is on.

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 6.)
3. Plug in the AC cord to the AC outlet. (See page 6.)



Language setting

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

1

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



Antenna setting

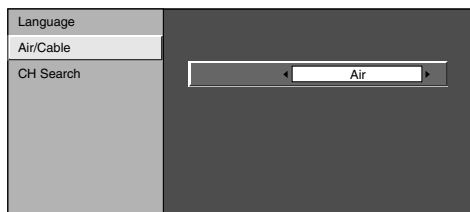
Make sure what kind of connection is made with your TV when selecting “Air” or “Cable”.

2

Press ◀/▶ to select “Air” or “Cable”, and then press **ENTER**.

- There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your TV. Select Auto when you do not know which one to select.

Example



Channel search

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

3

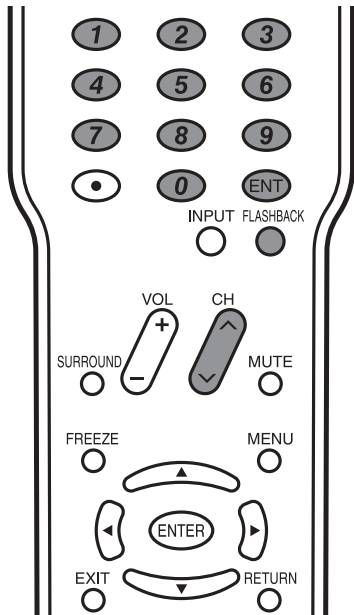
Press **ENTER**.

NOTE

- If no channel is found, make sure what kind of connection is made with your TV and try EZ setup again (see page 19).

Simple button operations for changing channels

You can change channels in several ways.

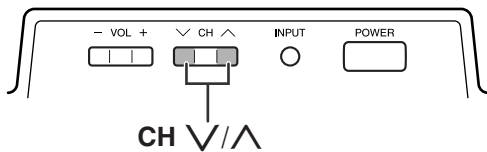


Using CH \wedge / \vee on the remote control unit

- Press **CH \wedge** to increase the channel number.
- Press **CH \vee** to decrease the channel number.

NOTE

- **CH \vee / \wedge** on the TV operates the same as **CH \wedge / \vee** on the remote control unit.



Changing channels with CH \wedge / \vee on the remote control unit or CH \vee / \wedge on the TV

Air: Press **CH \wedge** and the channel change in the order shown below:

2→3→...→68→69→2→3...

Press **CH \vee** and the channel change in the order shown below:

3→2→69→68→...→3→2...

Cable: Press **CH \wedge** and the channel change in the order shown below:

1→2→3→...→125→1→2→3...

Press **CH \vee** and the channel change in the order shown below:

3→2→1→125→...→3→2→1→...

Using 0 – 9 on the remote control unit

Select the channels directly by pressing buttons **0** to **9**.

- The TV allows you to select up to 125 channels (1 to 125). To select a channel, enter a 2 or 3-digit number.

EXAMPLE

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

Complete the following steps within 3 seconds.

- 1 Press the **0** button.
 - Complete the step 2 within 3 seconds after the step 1.
- 2 Press the **5** button.
- 3 Press **ENT** to enter the setting.
 - Channel selection will be made if there is no operations for 3 seconds.

NOTE

- When selecting a 1-digit channel number, do not fail to press the **0** button.

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

Complete the following steps within 3 seconds.

- 1 Press the **1** button.
 - Complete the step 2 within 3 seconds after the step 1.
- 2 Press the **1** button again.
 - Complete the step 3 within 3 seconds after the step 2.
- 3 Press the **5** button.

Using FLASHBACK on the remote control unit

Press **FLASHBACK** to switch the currently tuned channel to the previously tuned channel.

Press **FLASHBACK** again to switch back to the currently tuned channel.

Press **FLASHBACK** to toggle between the currently selected input source and the previously selected one.

NOTE

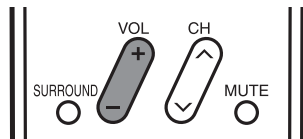
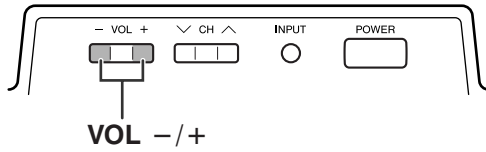
- **FLASHBACK** will not work if no channel has been changed after the TV is turned on.

Watching TV

Simple button operations for 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
MONITOR OUTPUT	Constant as specified	Variable sound

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

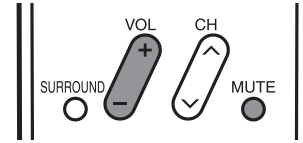


NOTE

- See page 33 for details on the output select function.

■ Using MUTE on the remote control unit

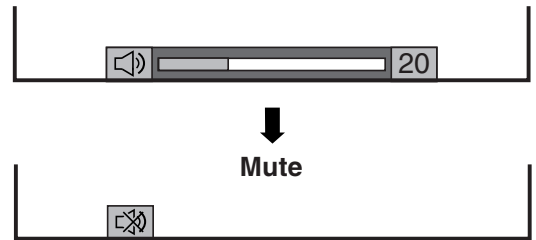
Mutes the current sound output.



1

Press **MUTE**.

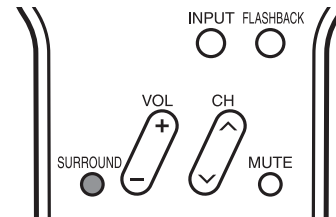
- "⊘" has been displayed on the screen for 30 minutes, and the sound is silenced.



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 23.)

Watching TV

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).

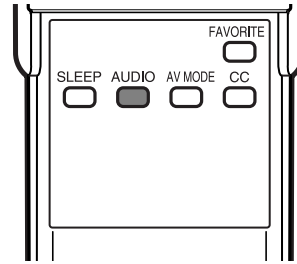
SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

If stereo sound is difficult to hear.

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

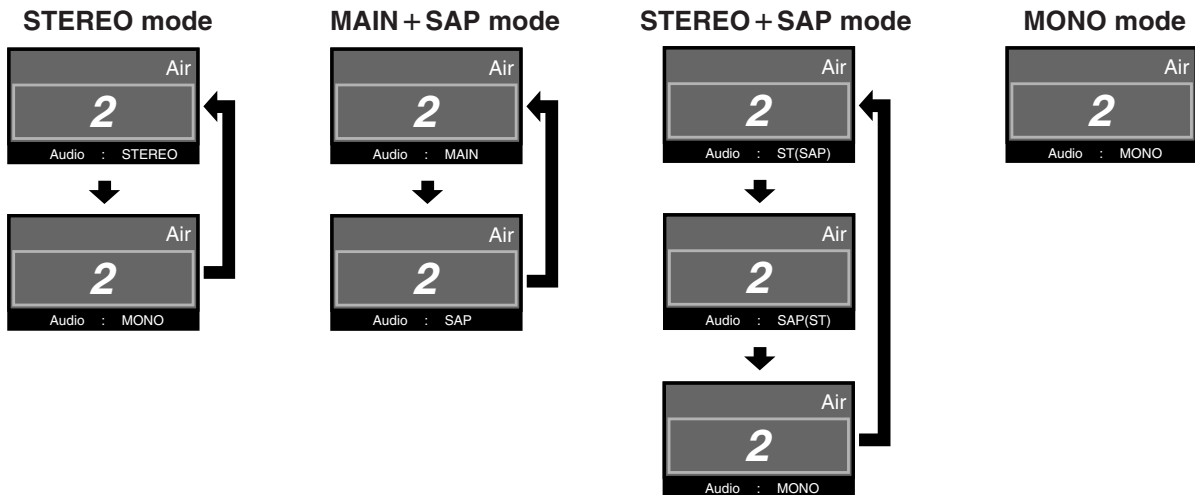
NOTE

- 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



Basic adjustment settings

Menu items

List of menu items to help you with operations

Picture

OPC	Page 21
Backlight	Page 21
Contrast	Page 21
Brightness	Page 21
Color	Page 21
Tint	Page 21
Sharpness	Page 21
Advanced	
Color Temp.	Page 22
Black	Page 22
3D-Y/C	Page 22
Monochrome	Page 22
Film Mode	Page 22

Audio

Treble	Page 23
Bass	Page 23
Balance	Page 23
Surround	Page 23

Power Control

No Signal Off	Page 24
No Operation Off	Page 24

Setup

EZ Setup	Page 19
CH Setup	Pages 19-20
Input Label	Page 30
Parental CTRL	Pages 35-40
Position	Page 28
Picture Flip	Page 30
Language	Page 20

Option

Audio Only	Page 32
Digital Noise Reduction	Page 32
HDMI Setup	Page 27
Input Select	Page 29
Output Select	Page 33
Quick Shoot	Page 33
Color System	Page 33

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.

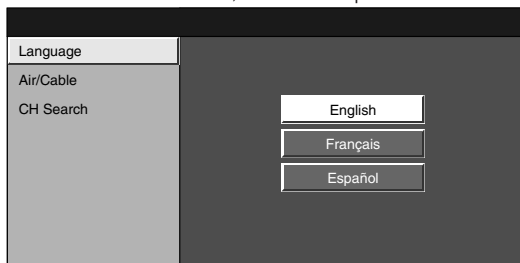
2 Press **◀/▶** to select "Setup".

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".

6 Press **◀/▶** to select "Air" or "Cable", and then press **ENTER**.

- There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your TV. Select Auto when you do not know which one to select.

Channel search

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

7 Press **ENTER**.

NOTE

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

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 35 for setting a secret number.

4 Press **▲/▼** to select "Air/Cable", and then press **ENTER**.

5 Press **◀/▶** to select "Air" or "Cable", and then press **ENTER**.

Channel search

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

1 Repeat steps 1 to 3 in Antenna setting in **Channel setup**.

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

3 Press **ENTER** to search.

NOTE

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

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 35 for setting a secret number.
- 4 Press ▲/▼ to select "CH Memory", and then press **ENTER**.
- 5 Press ▲/▼ and press ◀/▶ to select the channel you want to skip or not.
- 6 Press ▲/▼ to select "Skip", and 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.

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.

Delete 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" at step 2 in **Delete 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.

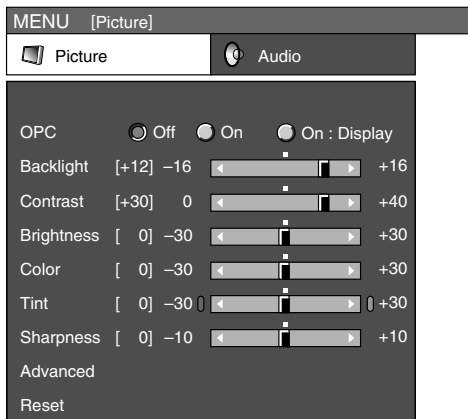
2 Press **◀/▶** to select "Picture".

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**.



OPC setting

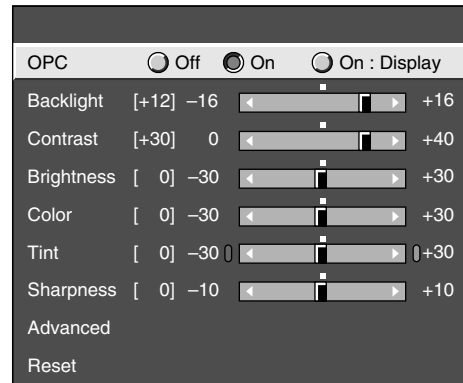
Automatically adjusts the brightness of the screen.

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

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

NOTE

- Select "Advanced" and then press **ENTER** to set "Color Temp.", "Black", "3D-Y/C", "Monochrome" or "Film Mode". See page 22.

NOTE

- When set to "On", 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
High	White with Bluish tone  White with Reddish tone
Mid-High	
Middle	
Mid-Low	
Low	

Black

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

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

3D-Y/C

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

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

NOTE

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

Monochrome

For viewing a video in monochrome.

Selected item	Description
Off	Normal color
On	For viewing in monochrome

Film Mode (3:2 pull-down)

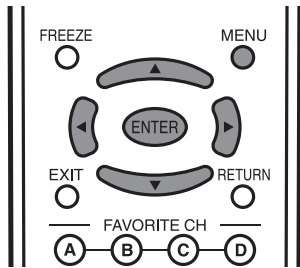
Automatically detects a film-based source (originally encoded at 24 frames/second), analyzes it then recreates each still film frame for high-definition picture quality.

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

Basic adjustment settings

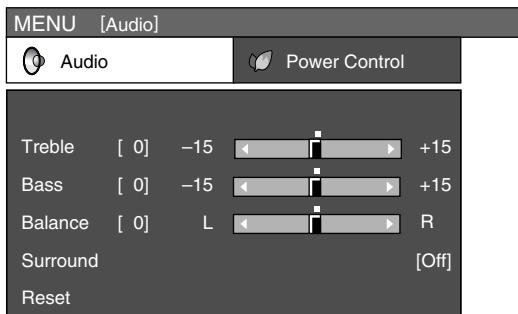
Sound adjustment

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
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decrease audio from the right speaker	Decrease audio from the left speaker

NOTE

- Audio menu is grayed out when Output Select is set to “Variable”.
- For resetting all adjustment items to factory preset values, press **▲/▼** to select “Reset”, press **ENTER**, press **◀/▶** to select “Yes”, and then press **ENTER**.

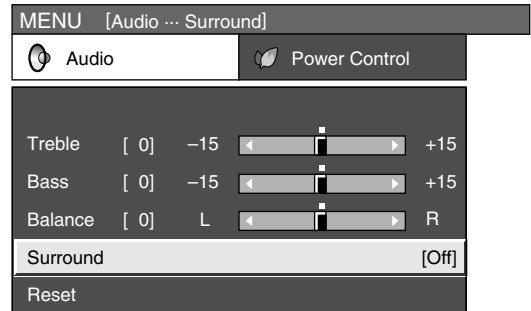
Surround

Surround effects can be set using the “Audio” menu.

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

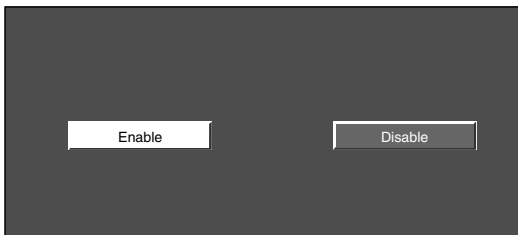
When set to "Enable", the power will automatically shut down if no signal inputs for 15 minutes.

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

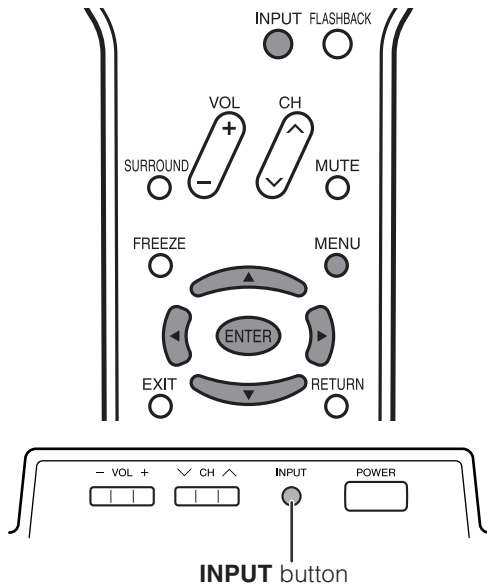
- "Disable" is factory preset value.

Using external equipment

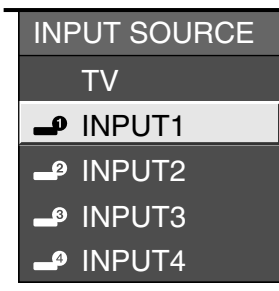
You can connect many types of external equipment to your TV, like a DVD player, VCR, Digital TV tuner, HDMI equipment, game console and camcorder. To view external source images, select the input source from **INPUT** on the remote control unit or on the TV.

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 29.)



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

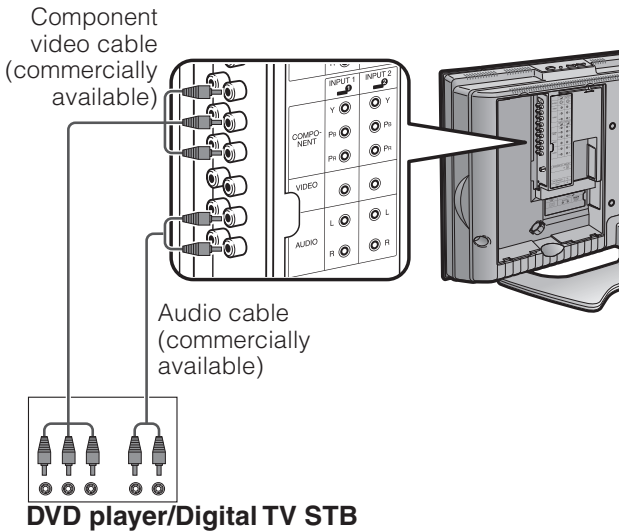
- See pages 26 to 27 for external equipment connection.
- Please refer to the relevant operation manual (DVD player, etc.) carefully before making connections.
- Each time **INPUT** is pressed, the input source toggles.
- Refer to your external equipment operation manual for the signal type.

Using external equipment

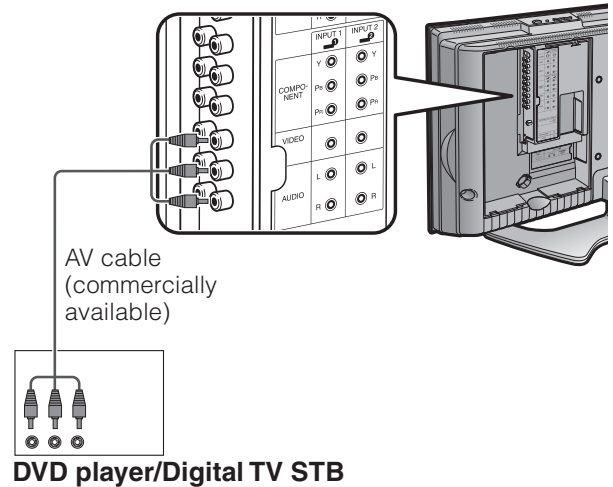
Connecting a DVD player or Digital TV STB

You can use the INPUT 1 to INPUT 4 terminals when connecting to a DVD player, Digital TV STB and other audiovisual equipment.

When using component cable. (INPUT 1 or 2)



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



NOTE

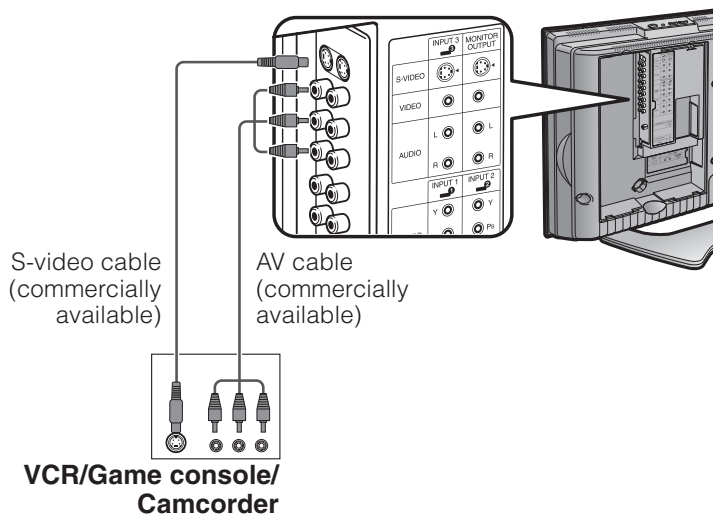
- See page 27 for connecting a DVD player or Digital TV STB to HDMI terminal.

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)



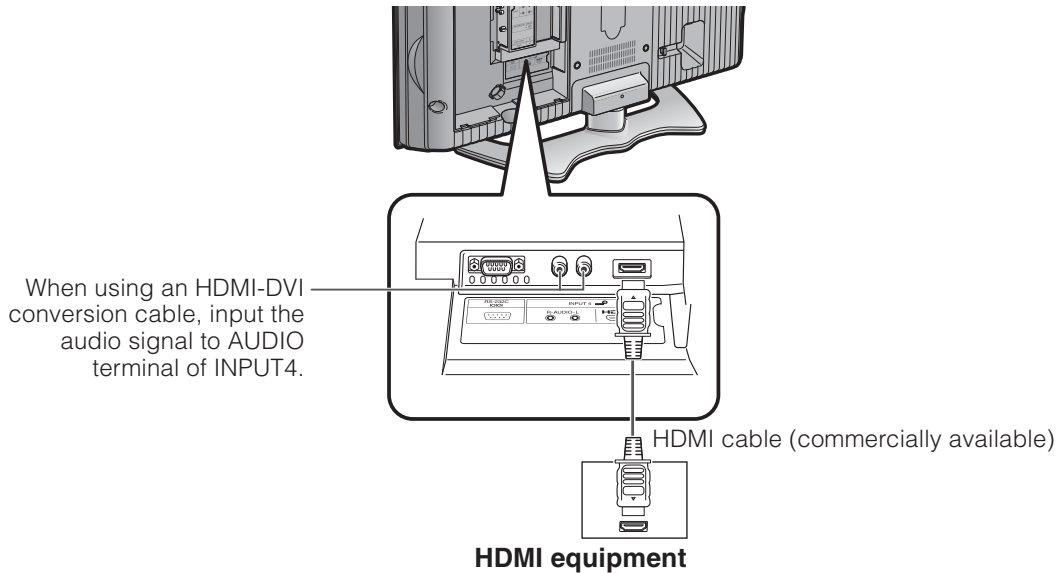
NOTE

- 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

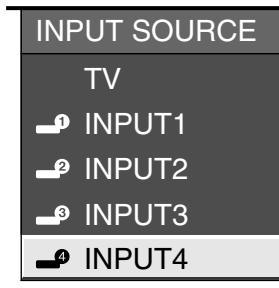
Connecting HDMI equipment

You can use the INPUT 4 terminal when connecting an HDMI equipment.



Displaying an image from HDMI equipment

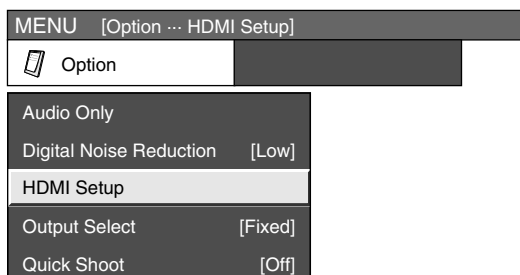
- To watch an HDMI equipment image, select "INPUT4" from "INPUT SOURCE" menu using **INPUT** on the remote control unit or on the TV. (See page 29.)



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

- Press **◀/▶** to select "Option".

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



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

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

HDMI Setup items	Selectable items	Description
Signal Type	RGB/YCbCr 4:4:4/ YCbCr 4:2:2	Select the video signal type from the HDMI terminal.
Color Matrix	ITU601/ITU709	Select the internal color space conversion method when an RGB signal is input.
Dynamic Range	Standard/ Out of standard	Select the signal amplitude range. Usually, select "Standard".
Auto View	Enable/Disable	Set whether or not to use VIEW MODE based on signal recognition, including an HDMI signal.
Audio Select	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
H-Pos.	Centers the image by moving it to the left or right.
V-Pos.	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.

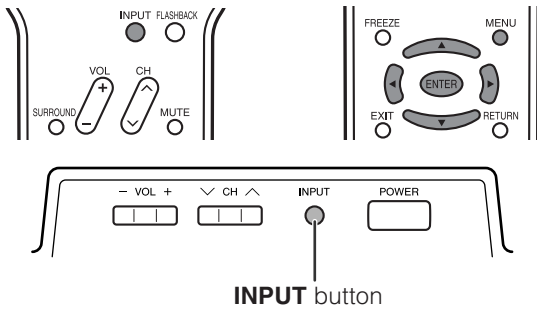
Press **▲/▼/◀/▶** to move an image on the screen to the desired position. Press **ENTER** to return to the original image position.

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 or 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, an image does not display or no color image displays.

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

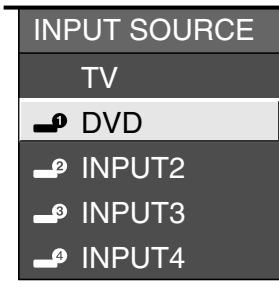
2. VIDEO

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 source.
- 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 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "Picture Flip", and then press **ENTER**.
- 4 Press **▲/▼** to select the desired mode, and then press **ENTER**.

[Standard]: normal image.



[Mirror]: mirror image.



[Upside Down]: upside down image.



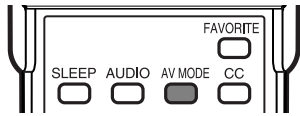
[Rotate]: rotated image.



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**.

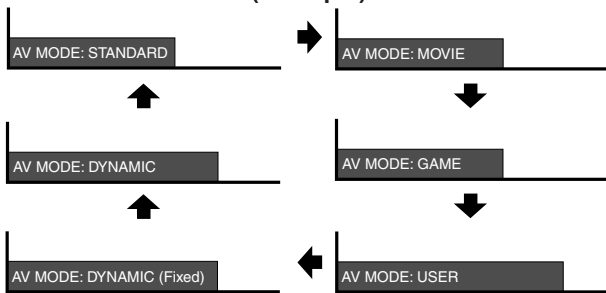
- Present AV MODE displays.

2

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

- The mode changes as shown below.

Mode selection for TV, INPUT 1 to 4 terminals (Example)



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

NOTE

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

View mode for 4:3 Programs

1

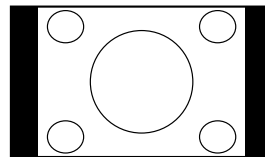
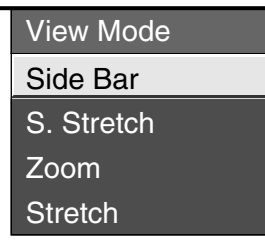
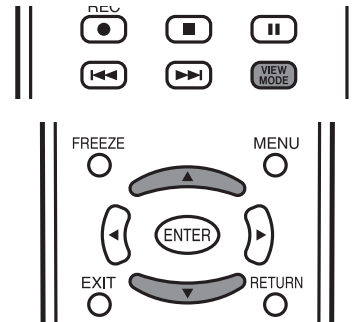
Press **VIEW MODE**.

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

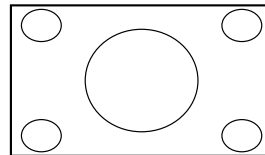
2

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

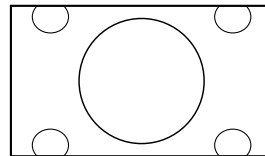
- You can sequentially select a view mode that has its own aspect ratio.



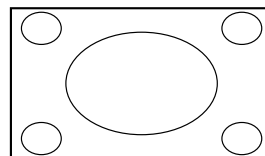
Side Bar: Suitable for viewing conventional 4:3 programs in their normal format.



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.

Useful adjustment settings

Digital Noise Reduction

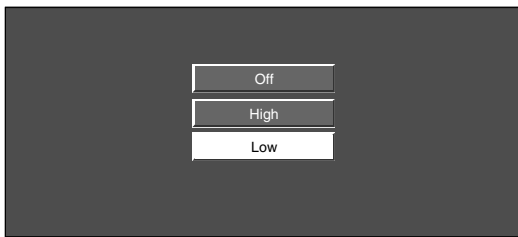
Produces a clearer video image.

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

Useful adjustment settings

Output Select

Allows you to select what controls the audio output.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "Output Select", and then press **ENTER**.
- 4 Press **◀/▶** to select "Fixed" or "Variable", and then press **ENTER**.

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

Quick shoot

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

- 1 Repeat steps 1 and 2 in **Output Select**.
- 2 Press **▲/▼** to select "Quick Shoot", and then press **ENTER**.
- 3 Press **◀/▶** to select "On", and then press **ENTER**.

NOTE

- Quick Shoot may cause image noise. If this occurs turn the function "Off".

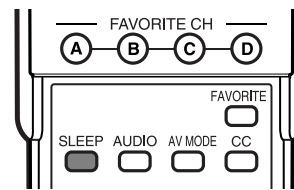
Color System

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

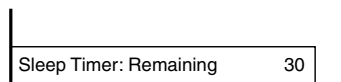
- 1 Repeat steps 1 and 2 in **Output Select**.
- 2 Press **▲/▼** to select "Color System", and then press **ENTER**.
- 3 Press **▲/▼** to select a compatible video signal system of your equipment, and then press **ENTER**.

Sleep timer

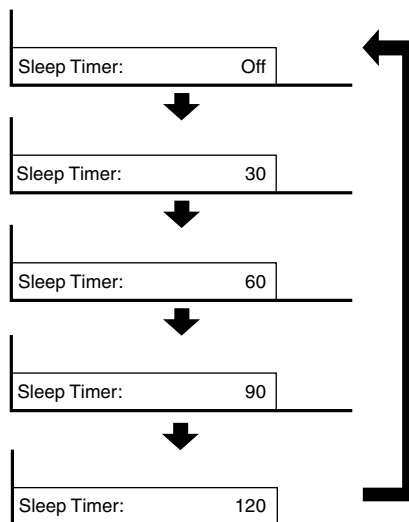
Allows you to set a time when the TV automatically switches to standby.



- 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.

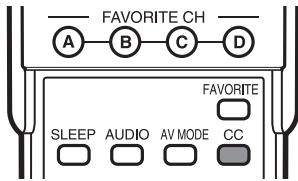
Useful adjustment settings

Closed caption

- Your TV is equipped with an internal closed caption decoder. Closed caption is the system which allows you to view conversations, narration, and sound effects in TV programs and home videos as subtitles on your TV.
- Not all programs and videos offer closed caption. Please look for the “**CC**” symbol to ensure that captions will be shown.
- “CC1” or “CC2” displays subtitles of TV dramas and news programs while allowing a full view of the picture.
- “Text1” or “Text2” superimposes on the picture other information (e.g. TV guide, weather) that is independent of the TV in progress.

NOTE

- When the program contains no closed caption, “ – – ” displays in the closed caption information.
- Four kinds of closed caption information is available. However, selectable item depends on the information program contains.



1

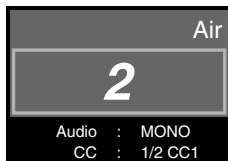
Press **CC**.

- Present CC mode displays.

2

Press **CC** again before the mode displayed on the screen displays.

- The Closed Caption toggles.



- Depending on the signal, information such as 1/4 or 1/2 will appear.

1/2 shows the first of two services.

Example:

If a program has two services (CC1 and Text 1), closed caption toggles like below.

1/2 CC1 → 2/2 Text1 → OFF

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 35 to 40):

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

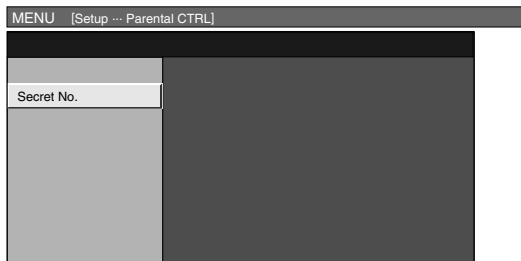
Setting a secret number

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

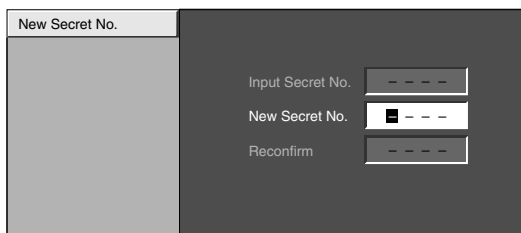
2 Press **◀/▶** to select "Setup".

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

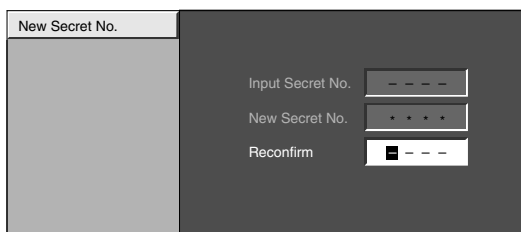
4 Press **▲/▼** to select "Secret No.", and then press **ENTER**.



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 37 and 39 for details.)

Setting parental control status

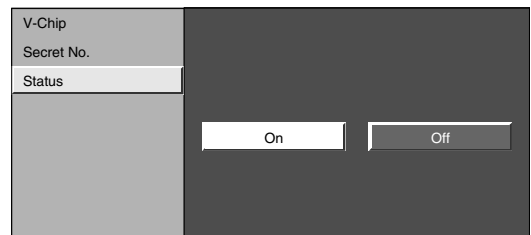
Used to enable or disable the parental control function.

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**.

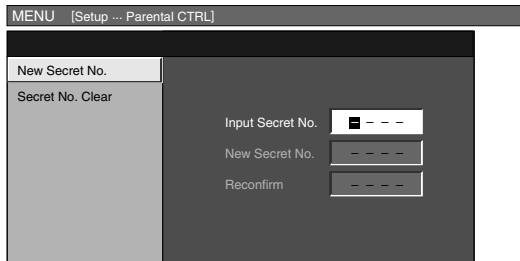
- Secret number setting menu displays.

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

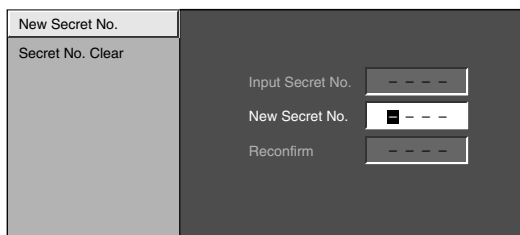
3 Press **▲/▼** to select “Secret No.”, and then press **ENTER**.

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

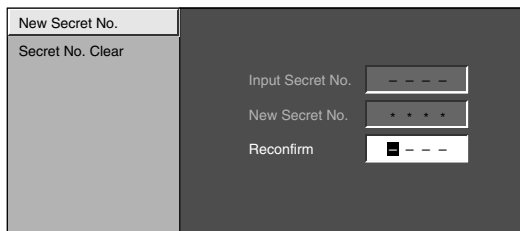
5 Input the old 4-digit number you have set using **0 – 9**.



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 35 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 TV to return all settings except for the TV channel settings to factory preset values. (See page 51.)**
- 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)

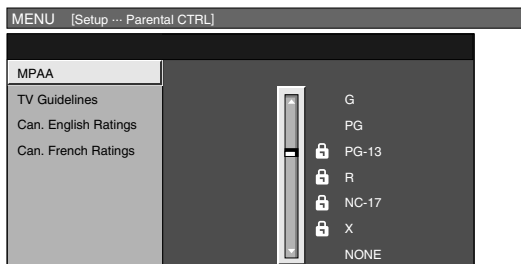
V-CHIP is an electronic filtering device built into your TV. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you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

“V-Chip” and “Status” will not be selectable from the menu if you do not first configure your secret number. (See page 35 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 (Fantasy violence)	V (Violence)	S (Sexual situation)	L (Adult language)	D (Sexually suggestive dialog)
Suggested 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.

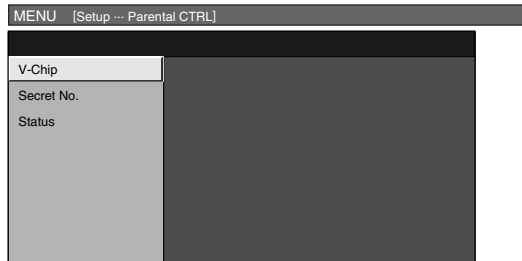
2 Press **◀/▶** to select "Setup".

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

- Secret number setting menu displays only when "Secret No." is set. (See page 35.)
- "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 35.)

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

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

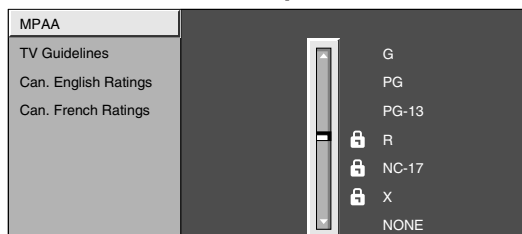


6 Press **▲/▼** to select "MPAA", and then press **ENTER**.

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 35.)

Example



TV Parental Guidelines (TV Guidelines)

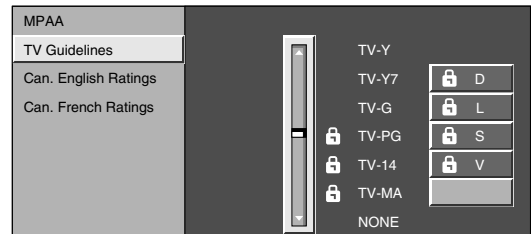
1 Repeat steps 1 to 5 in **Voluntary movie rating system (MPAA)**.

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.

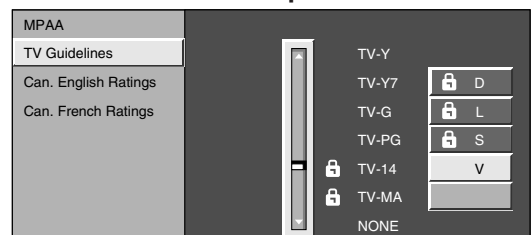
Example



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

- ① Press **▶** or **ENTER** 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 35.)

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 scenes of 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 35.)
- "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 35.)

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 35.)

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 35.)

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** and then press **ENTER**. 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 35.

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 38 and 40.

Method 3:

Switch off the TV power.

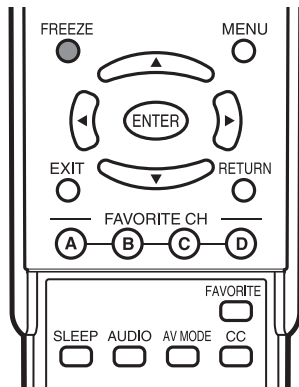
NOTE

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

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

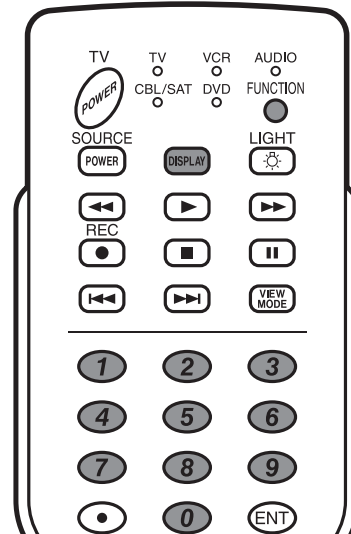
Press **FREEZE** again to cancel the function.

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 42.)

- 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

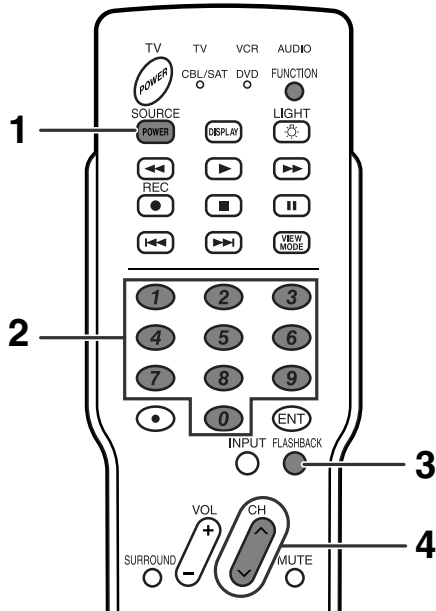
CATV/SAT BRAND	REMOTE CONTROL CODE NUMBER
Anvision	04, 05
Cable Star	04, 05
Eagle	05
General Instrument	02, 03, 07, 12, 13, 14, 19, 22
Jerrold	02, 03, 07, 12, 13, 14, 19, 22, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40
Magnavox	04, 05, 09, 14, 17, 18, 20, 21, 24, 25
Oak Sigma	8
Panasonic	16, 23
Philips	04, 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

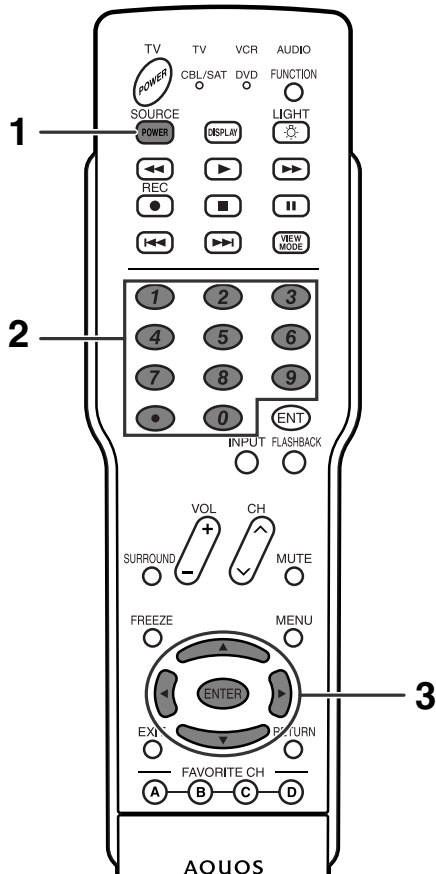
When the **FUNCTION** is set to CBL/SAT the cable converter connected to the TV can be operated using 1 to 4.

- 1 **SOURCE POWER**
Turns the cable converter power on and off.
- 2 **0 - 9**
Press a button (or buttons) that corresponds to the channel that you wish to watch.
- 3 **FLASHBACK ***
Press to switch between the current channel and the channel you were watching immediately before.
- 4 **CH \wedge / \vee**
Press **CH \wedge** or **CH \vee** to tune in a higher or lower channel.

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

NOTE

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



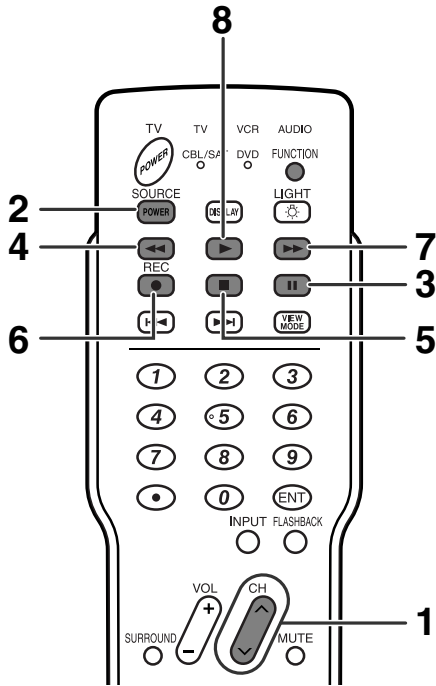
SAT control buttons

- 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, \blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright**
ENTER: Press to activate the selected function.
 \blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright : 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.

Other viewing options

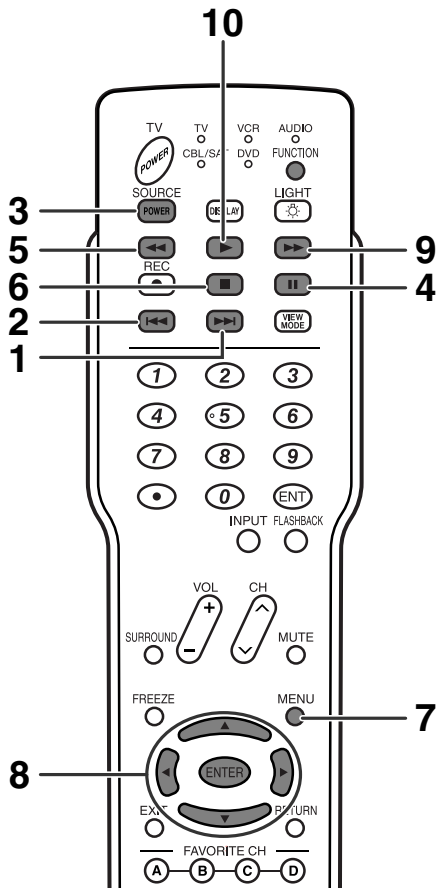


VCR control buttons

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 ^/∇**
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 II**
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.



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 II**
Set 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.

Appendix

Removing the stand

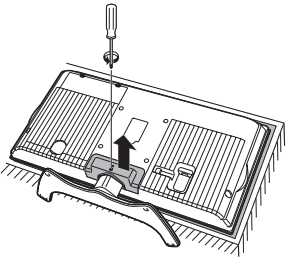
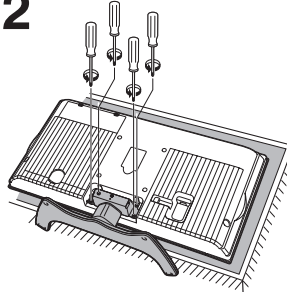
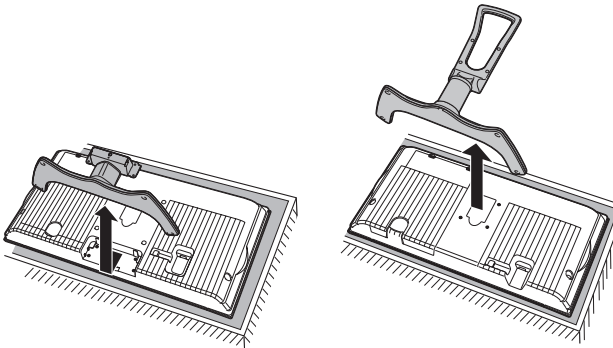
Before detaching (or attaching) stand, unplug the AC cord from the AC INPUT terminal.

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.

<p>1</p>  <p>Unfasten the screw used to secure the bracket in place.</p>	<p>2</p>  <p>Unfasten the four screws used to secure the stand in place.</p>	<p>3 (LC-32DA5U) (LC-26DA5U)</p>  <p>Detach the stand from the TV. (Hold the stand so it will not drop from the edge of the base area.)</p>
<p>* Start from step 2 for the 26 inch model to unfasten the screws. Note that the shape of each stand differs.</p>		

NOTE

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

Setting the TV on the wall

CAUTION

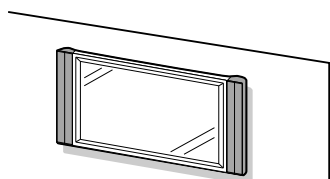
- Installing the TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

Using an optional bracket to mount the TV

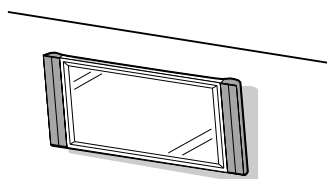
- You can ask a qualified service personnel about using an optional bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

Hanging on the wall

Wall mount bracket. (See the bracket instructions for details.)



Vertical mounting



Angular mounting

Troubleshooting

Problem	Possible Solution
<ul style="list-style-type: none"> No power 	<ul style="list-style-type: none"> Check if you pressed TV POWER on the remote control unit. (See page 13.) If the indicator on the TV does not light up, press TV POWER on the remote control unit. Is the AC cord disconnected? (See page 6.) Has the power been turned on? (See page 13.)
<ul style="list-style-type: none"> Unit cannot be operated. 	<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> Remote control unit does not operate. 	<ul style="list-style-type: none"> Is the FUNCTION set correctly? Set it to the TV setting position. Are batteries inserted with polarity (+, -) aligned? (See page 7.) Are batteries worn out? (Replace with new batteries.) Are you using it under strong or fluorescent lighting? Is a fluorescent light illuminated near the remote control sensor?
<ul style="list-style-type: none"> Picture is cut off/with sidebar screen. 	<ul style="list-style-type: none"> Is the image position correct? (See page 28.) Are screen mode adjustments such as picture size made correctly? (See page 31)
<ul style="list-style-type: none"> Strange color, light color, or color misalignment 	<ul style="list-style-type: none"> Adjust the picture tone. (See pages 21 to 22.) Is the room too bright? The picture may look dark in a room that is too bright.
<ul style="list-style-type: none"> Power is suddenly turned off. 	<ul style="list-style-type: none"> Is the sleep timer set? (See page 33.) Check the power control settings. (See page 24.) The unit's internal temperature has increased. Remove any objects blocking vent or clean.
<ul style="list-style-type: none"> No picture 	<ul style="list-style-type: none"> Is connection to other components correct? (See pages 26 to 27.) Is correct input signal source selected after connection? (See page 29.) Is the correct input selected? (See page 29.) Is picture adjustment correct? (See pages 21 to 22.) Is "On" selected in "Audio Only"? (See page 32.)
<ul style="list-style-type: none"> No sound 	<ul style="list-style-type: none"> Is the volume too low? (See page 16.) Is "Variable" selected in "Output Select"? (See page 33.)

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:

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

Communication procedure

Send the control commands from the PC via the RS-232C connector. The TV operates according to the received command and sends a response message to the PC. Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

Command format

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

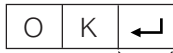
When "?" is input for some commands, the present setting value responds.

?			
?	?	?	?

Appendix

Response code format

Normal response



Return code (0DH)

Problem response (communication error or incorrect command)



Return code (0DH)

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	0 _ _ _ _	It input-switches to TV. (A channel remains as it is. (Last memory))	
	INPUT1-4	I : A : V : D	* _ _ _ _	Input terminal number (1-4)	
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)	Although it can choose now, it is toggle operation in inside.	
			1 _ _ _ _	Side Bar	
			2 _ _ _ _	S.Stretch	
			3 _ _ _ _	Zoom	
			4 _ _ _ _	Stretch	
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	D : C : C : H	* * * _ _	The channel number of TV (1-125)	An input change is included if it is not TV display. In Air, 2-69ch is effective. In Cable, 1-125ch is effective.
	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.
	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.
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

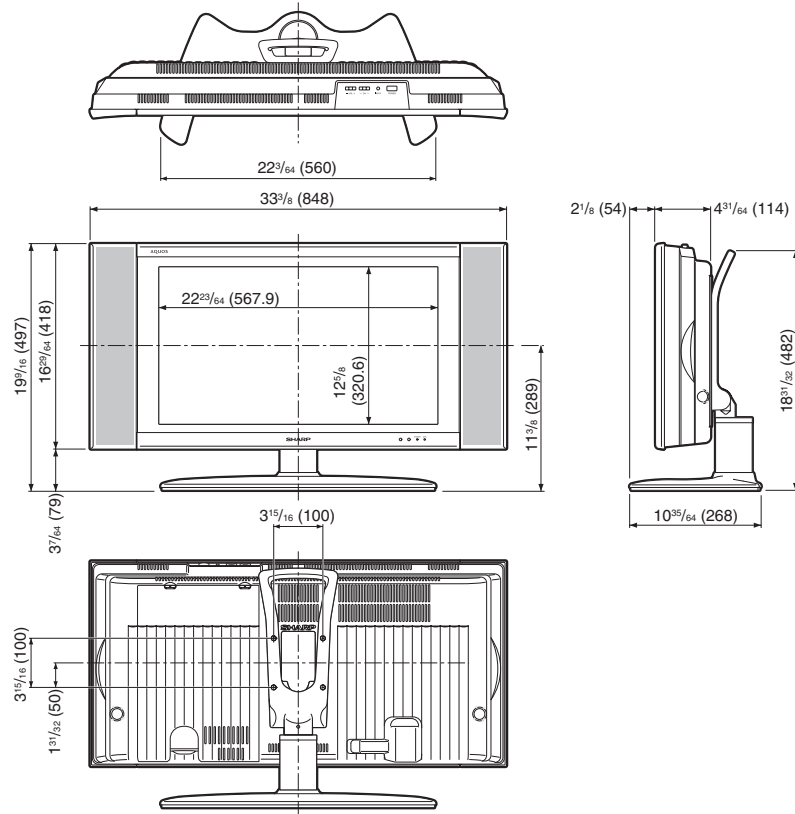
Item		26" LIQUID CRYSTAL TELEVISION, Model: LC-26DA5U	32" LIQUID CRYSTAL TELEVISION, Model: LC-32DA5U
LCD panel		26" Advanced Super View & BLACK TFT LCD	32" Advanced Super View & BLACK TFT LCD
Number of dots		3,147,264 dots (1366 × 768 × 3 dots)	
TV Function	TV-standard (CCIR)	American TV Standard NTSC System	
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch
		CATV	1-125ch
	Audio multiplex	BTSC System	
Brightness		450 cd/m ²	
Backlight		60,000 hours (at Backlight Standard position)	
Viewing angles		H : 170° V : 170°	
Audio amplifier		10W × 2	
Speakers		Ø 8cm 2pcs	
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
		ANTENNA	75 Ω Unbalance, F Type for VHF/UHF/CATV in × 1
		MONITOR OUTPUT	S-VIDEO out, AV out
OSD language		English/French/Spanish	
Power Requirement		AC 120 V, 60 Hz (FOR NORTH AMERICA) AC 110-240 V, 50/60 Hz(FOR OTHERS)	
Power Consumption		115 W (0.7 W Standby with AC 120 V)	140 W (0.7 W Standby with AC 120 V)
Weight		27.6 lbs./12.5 kg (w/o stand), 35.3 lbs./16.0 kg (with stand)	36.4 lbs./16.5 kg (w/o stand), 44.1 lbs./20.0 kg (with stand)
Dimension (W × H × D)		33 ³ / ₈ × 16 ²⁹ / ₆₄ × 4 ³¹ / ₆₄ inch (w/o stand), 33 ³ / ₈ × 19 ⁹ / ₁₆ × 10 ³⁵ / ₆₄ inch (with stand)	38 ³⁷ / ₆₄ × 19 ¹³ / ₃₂ × 4 ³¹ / ₆₄ inch (w/o stand), 38 ³⁷ / ₆₄ × 22 ³ / ₄ × 11 ³ / ₈ inch (with stand)
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.

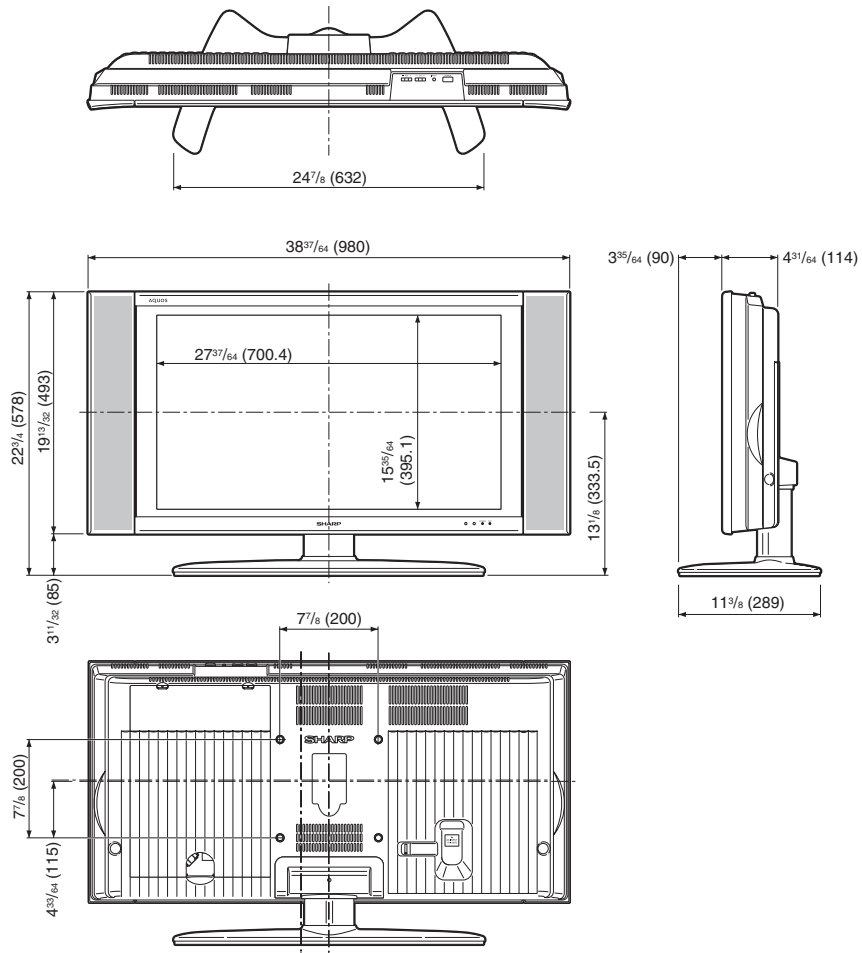
Dimensional drawings

Unit: inch/(mm)

LC-26DA5U



LC-32DA5U



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

				.
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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-26DA5U LCD Color Television
LC-32DA5U 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:

LC-32DA5U

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-26DA5U

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.sharpsusa.com

SHARP®

SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

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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

