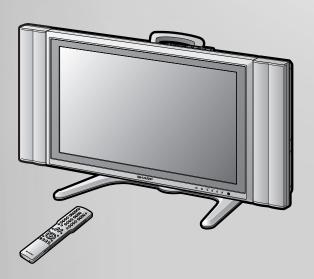
SHARP

LC-26GA4U

LIQUID CRYSTAL TELEVISION
TÉLÉVISEUR ACL
TELEVISOR CON PANTALLA DE CRISTAL LIQUIDO
TELEVISOR DE CRISTAL LÍQUIDO

AQUOS

OPERATION MANUAL
MODE D'EMPLOI
MANUAL DE OPERACIÓN
MANUAL DE OPERAÇÃO









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











LC-26GA4U

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.
- Some items may be grayed out. They are not selectable.

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-26GA4U

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

- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
- "HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."

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 Precautions 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.
- 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.
- 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

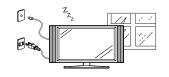
Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Precautions when transporting the TV

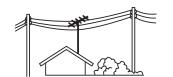
When transporting the TV, never carry it by holding onto the speaker. Be sure to always carry the TV by two people holding it with two hands—one hand on each side of the TV.



 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.



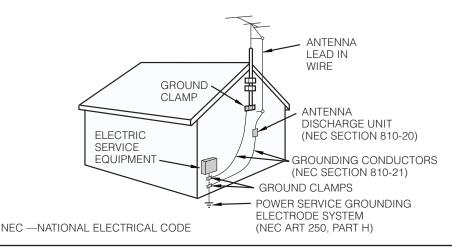
 Power Lines — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power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



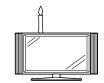
IMPORTANT SAFETY INSTRUCTIONS

 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



 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.



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Contents

IMPORTANT INFORMATION		Displaying a motion picture	41
Trademarks		Rec. Mode	
DEAR SHARP CUSTOMER		Pre Record	
IMPORTANT SAFETY INSTRUCTIONS		Repeat Play	
COPYRIGHT		Protecting/unprotecting motion picture files	
Contents		Deleting a motion picture file	
Supplied accessories Preparation		Deleting all motion picture files Format	
Setting the TV	ບ	Using external equipment	
Removing speakers	o	Displaying an external equipment image	
Removing the stand		Connecting a DVD player	
Setting the TV on the wall		Connecting a VCR	47
Inserting the batteries	11	Connecting a game console	
Using the remote control unit		or camcorder	
Cautions regarding remote control unit		Connecting a Digital TV STB	48
Part names		Connecting HDMI equipment	49
Display		Displaying an image from HDMI	
Remote control unit		equipment	49
Watching TV		Connecting a PC	
Antennas		Useful adjustment settings	
Cable converter/VCR connection		Image position (AV input mode only)	5
Outdoor antenna connection Turning on the power		Moving the picture on the screen	5
Turning off the power		Audio Quality Control	52
Initial setup		Auto Sync. adjustment (PC input mode only)	
Simple button operations	10	Fine Sync. adjustment (PC input mode only)	
for changing channels	20	Input Select	
Simple button operations		Input Label	
for changing volume/sound	21	Picture flip	56
Setting MTS/SAP stereo mode	22	AV MODĖ	57
Basic adjustment settings		View mode for 4:3 Programs	
AV input mode menu items	23	View mode (for PC input mode)	
PC input mode menu items		Input signal (for PC input mode)	59
EZ setup		Digital Noise Reduction	
Channel setup	25	Audio only	55
Favorite channel settingLanguage setting	21 27	Output Select	
Picture adjustments		Sleep timer	
OPC setting	29	Closed caption	
C.M.S. (Color Management System)		Caption Size	
Color temperature		Font Style	
Black		Foreground Color	
3D-Y/C		Foreground Opacity	63
Monochrome		Background Color	63
Film Mode (3:2 pull-down)		Background Opacity	64
I/P Setting		Character Edge	64
Sound adjustment		Secret number setting for parental control	
Dolby virtual		(AV input mode only)	
Power control		Parental control (setting V-CHIP level)	67
Power control for AV source Power control for PC source		How to temporarily release the V-CHIP BLOCK	7-
Using memory card		Reactivating the temporarily released	1
Important notes on using memory cards		V-CHIP BLOCK	7-
Card Setup mode menu items		Center Channel Input	
Recording a still image		Other viewing options	
Displaying a still image		Twin picture functions	
Displaying slide show		Presetting remote control function	
Setting Slide Show	39	Appendix	78
My Program		Troubleshooting	78
Audio Select		PC compatibility chart	79
Protecting/unprotecting still image files		RS-232C port specifications	80
Deleting a still image file	40	Specifications	82
Deleting all still image files		Optional accessory	82
Recording a motion picture	41	Dimensional drawings	83

Supplied accessories

Make sure the following accessories are provided with the product.

Remote control unit (×1)	"AAA" size battery (×2)	AC cord (×1)
00000000000000000000000000000000000000		
RRMCGA263WJSA Page 11	Page 11	QACCDA019WJPZ Page 8
RF cable (×1)	Operation manual (×1)	
QCNW-A342WJZZ Pages 16 and 17	LC-26GA4U AQUOS TINS-B242WJN1	

- Always use the AC cord supplied with the TV.
- AC cords enclosed in this product are for 110-125V. When using this product on the 220-240V, please order and use "QACCZA036WJPZ" as an option in this manual.

 SHARP ELECTRONICS CORPORATION

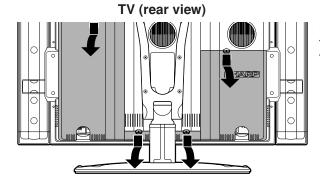
6100 Blue Lagoon Drive, Suite 230, Miami, Florida 33126, U.S.A.

Preparation

Setting the TV

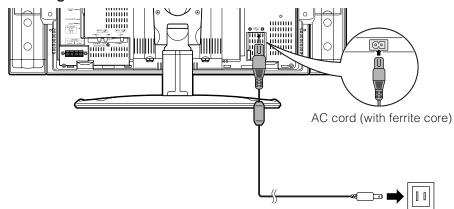
After putting the TV in place, connect the AC cord.

Removing the terminal cover

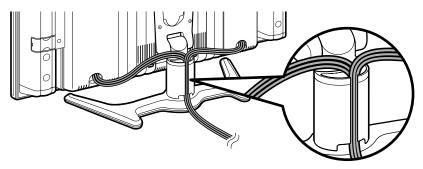


Press down the hooks to remove the cover toward you.

2 Connecting the AC cord to the TV



3 Bundling the cables



CAUTION

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



CAUTION

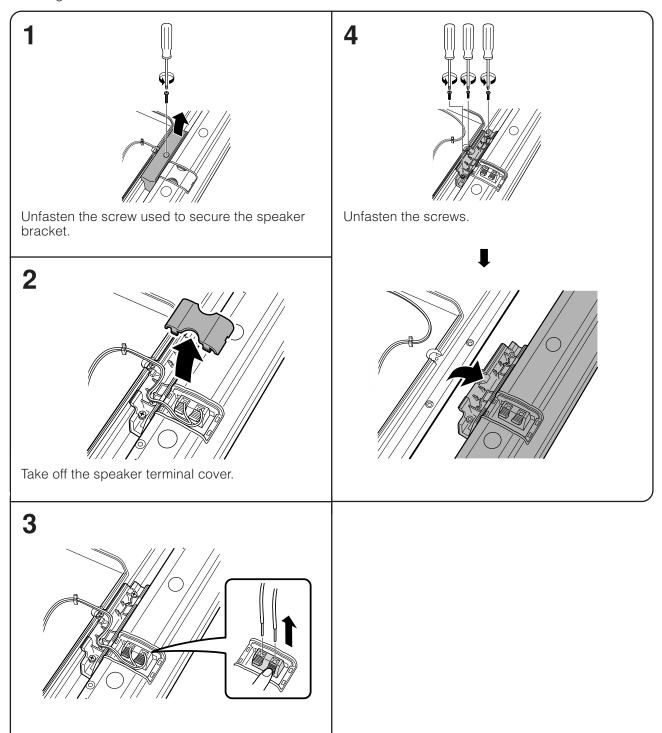
Adjust the screen with both hands. Put one hand on the Display and tilt the screen while steadying the stand with your other hand.

You can adjust the screen vertically up to 5 degrees forward or 10 degrees backward, or rotate 50 degrees horizontally.

Removing speakers

CAUTION

• Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.



CAUTION

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

⊘ NOTE

Disconnect the cable from the speaker.

Perform the same steps for right speaker.To attach the speakers, perform the steps in reverse order.

Removing the stand

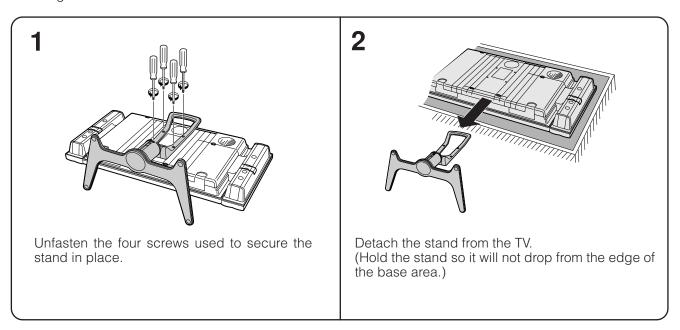
Before detaching (or attaching) stand, unplug the AC cord from the AC INPUT terminal.

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.



NOTE

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

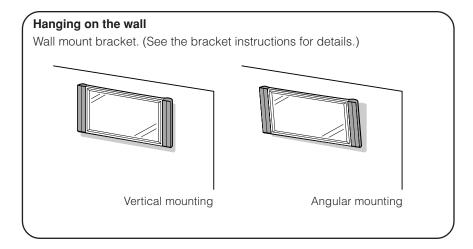
Setting the TV on the wall

(h) 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.



Inserting the batteries

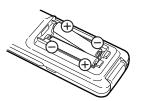
If the remote control fails to operate TV functions, replace the batteries in the remote control unit.

1 Open the battery cover.

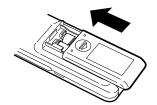


2 Insert two "AAA" size batteries (supplied with the product).

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.

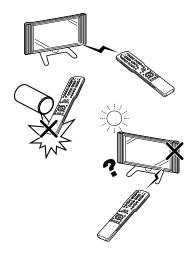
- Place the batteries with their terminals corresponding to the (+) and (-) indications.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause 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.

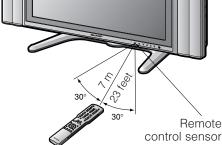
Using the remote control unit

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

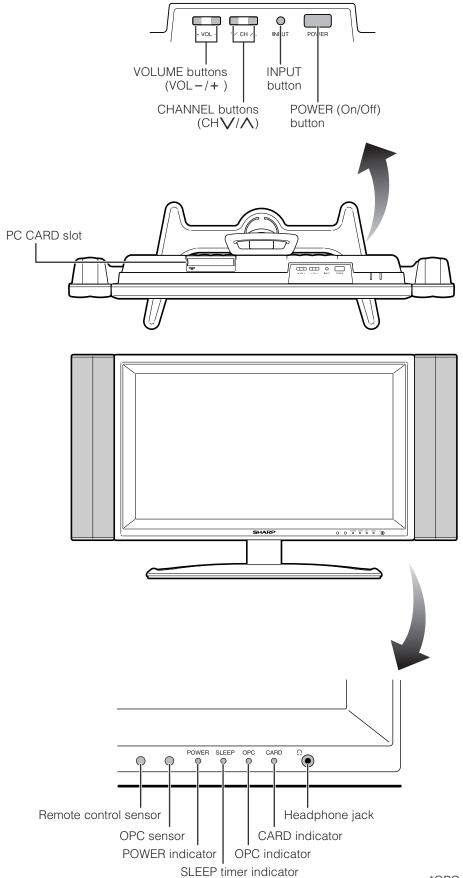
- Do not expose the remote control unit to shock.
 In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit.
- The remote 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.





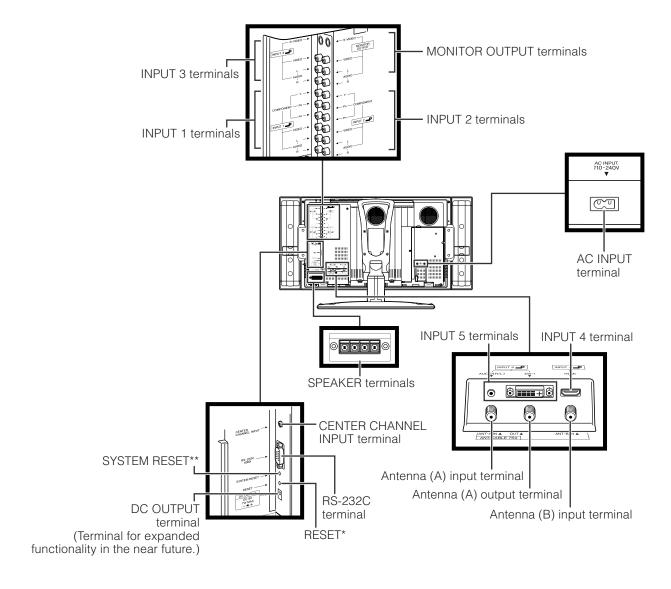
Part names

Display



*OPC: Optical Picture Control (See page 29.)

Display

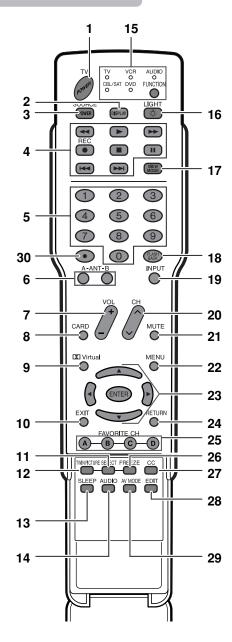


- * Press **RESET** if the TV cannot return to its original state after performing various operations.
 - AV MODE resets to DYNAMIC (Fixed)
 - TV channel returns to initial channel setting (Air:2ch, Cable:1 or 2ch)
 - Twin picture resets to normal
 - Audio setting initializes
 - Dolby virtual resets 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 (indicator lights red).
- Pressing RESET will not delete channel preset or secret number. See page 66 for clearing the secret number when you know it. See page 84 for initializing to the factory preset values when you forget your secret number.

Remote control unit





NOTE

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

- TV POWER: Switch the TV power on or standby. (See page 18.)
- **DISPLAY:** Display the channel information. 2
- SOURCE POWER: Turns the power of the external equipment on and off.
- External equipment operational buttons: Operate the external equipment.
- 5 **0** – **9:** Set the channel.
- ANT-A/B: Select between ANT-A and B to watch 6 broadcasts via the two tuners.
- 7 **VOL** +/-: Set the volume. (See page 21.)
- 8 CARD: Switch to card mode.
- Virtual: Select Virtual Dolby Surround settings. (See 9 page 21.)
- 10 EXIT: Turn off the menu screen.
- **11 SELECT:** Select the active screen. (See page 73.)
- 12 TWIN PICTURE: Set the twin picture mode. Press again to return to normal screen. (See page
- **13 SLEEP:** Set the sleep timer. (See page 60.)
- 14 AUDIO: Select the MTS/SAP. (See page 22.)
- 15 FUNCTION: Switches the remote control for TV, CBL/ SAT, VCR, DVD and AUDIO operation. Indicator lights up for the current mode. (See page 74 to 77 for details.)
- 16 : 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.
- 17 VIEW MODE: Select the screen size. (See pages 57 and 58.)
- 18 FLASHBACK: Return to the previous channel or input external mode. (See page 20.)
- 19 INPUT: Select a TV input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, Card) (See pages 45 and 55.)
- 20 CH **∧**/**∨**: Select the channel.
- 21 MUTE: Mute the sound. (See page 21.)
- 22 MENU: Display the menu screen.
- 23 $\triangle/\nabla/\triangle/\triangle$ /ENTER: Select a desired item on the screen.
- 24 RETURN: Return to the previous menu screen.
- 25 FAVORITE CH
 - A, B, C, D: Select four preset favorite channels in four different categories. (See page 27 for details.)
 - While watching, you can toggle the selected channels by pressing A, B, C and D.
- 26 FREEZE: Set the still image. Press again to return to normal screen. (See page 73.)
- 27 CC: Display captions during closed-caption source. (See page 61.)
- **28 EDIT:** Register favorite channel.
- 29 AV MODE: Select an audio or video setting. (See page 57.) (AV mode: STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC. PC mode: STANDARD, USER.)
- **30** (DOT) (See page 76.)

Watching TV

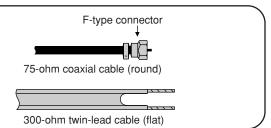
Simple operations for watching a TV program

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.

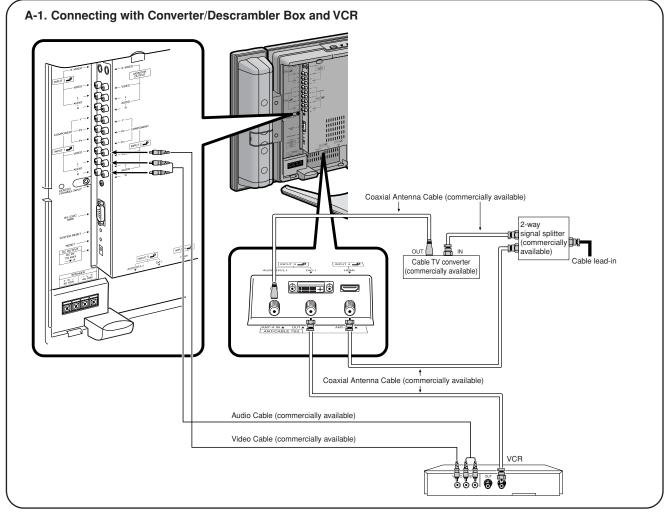
NOTE)

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



Cable converter/VCR connection

- · Be sure to connect the antenna or the cable converter as follows. Signal reception may fail if improperly connected.
- Be sure to remember what kind of connection is made with your TV.
- The connection type will determine whether to select "Air" or "Cable" for both ANT-A and B when configuring "Air/Cable" settings.

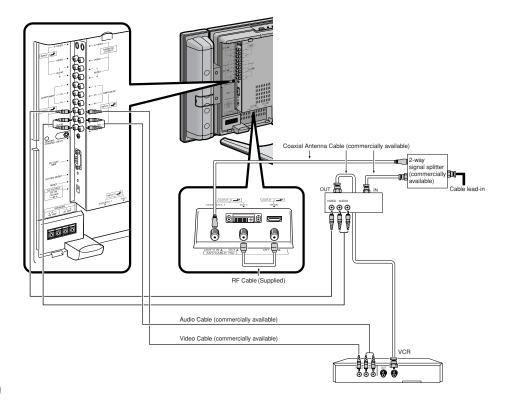


⊘ NOTE

- Be sure to remember what kind of connection is made with your TV.
- Shown here is the preferred method of connecting a VCR and CATV Converter to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position of the VCR's TV/VCR switch and you can enjoy stereo tape playback from a stereo VCR.
- While in STANDBY, no signal outputs from ANT-A OUT.

Cable converter/VCR connection (continued)

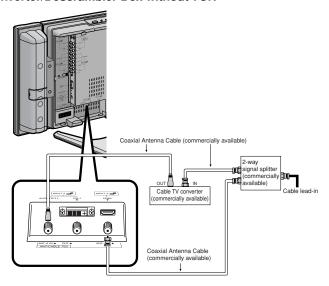
A-2. Connecting with cable converter using AUX terminals for audio and video output. (If your cable TV converter has both RF OUTPUT and AUX terminals, it is recommended to connect it as shown in example A-1.)



NOTE

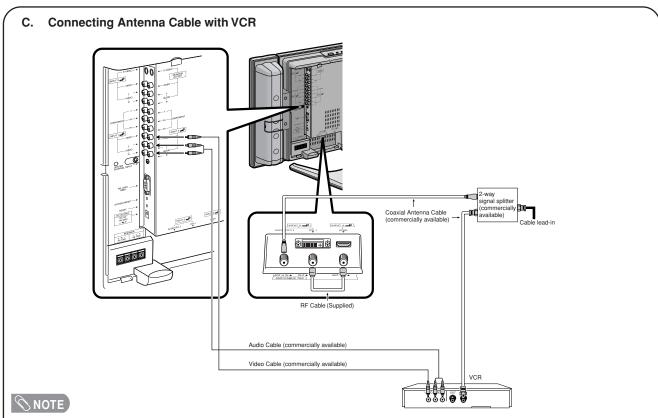
- Be sure to remember what kind of connection is made with your TV.
- Shown here is the preferred method of connecting a VCR and CATV Converter to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position of the VCR's TV/VCR switch and you can enjoy stereo tape playback from a stereo VCR.

B. Connecting with Converter/Descrambler Box without VCR



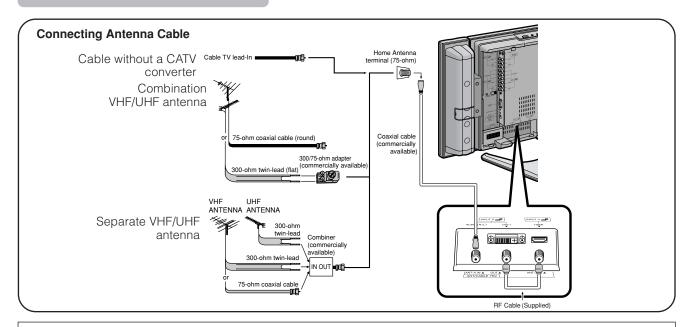
NOTE

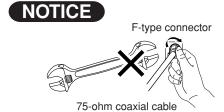
- Be sure to remember what kind of connection is made with your TV.
- Switching between Antenna-A and Antenna-B is possible by pressing the ANT-A/B button on the remote control.
- A good color picture depends on a good TV signal. So does good multi-channel sound. Ask your dealer for advice on how to install your outdoor antenna to receive the best possible signal.
- If you subscribe to Cable TV or have a central antenna for your building, you may not need an outdoor antenna.



- Be sure to remember what kind of connection is made with your TV.
- Shown here is the preferred method of connecting a VCR to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position of the VCR's TV/VCR switch and you can enjoy stereo tape playback from stereo VCR.
- If your lead cable is a 300-ohm twin-lead cable or UHF/VHF separate cable, use a 300/75-ohm adapter or combiner (output side is 75-ohm coaxial) to connect to the TV (see below).

Outdoor antenna connection



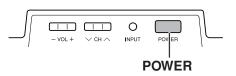


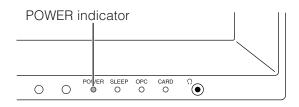
F-type connector should be finger-tightened only.

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.)

Display





NOTE)

The initial setup starts when the TV powers on for the first time. If the TV has been turned on before, the EZ setup will not be invoked. See page 24 to try EZ setup from the Setup menu.

• POWER indicator (Green): The TV is on. (After a few seconds, a window

• POWER indicator (Red): The TV is in standby. Press TV POWER on the

Turning off the power

Turning on the power

Press **POWER** on the Display.

appears with sound.)

remote control.

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

- The TV enters standby mode and the image on the screen disappears.
- The POWER indicator on the Display changes from green to red.

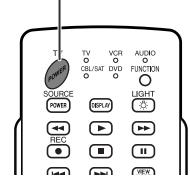
Press **POWER** on the Display.

- The POWER indicator on the Display gradually turns off.
- When the TV is turned off by POWER, you cannot turn on the power by pressing TV POWER on the remote control.

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
Red	The TV is in standby mode.
Green	The TV is on.

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 11.)
- 2. Connect the antenna cable to the TV. (See pages 15 to 17.)
- **3.** Plug in the AC cord to the AC outlet. (See page 8.)

Language setting

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



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



Antenna setting

Make sure what kind of connection is made with your TV when selecting "Air" or "Cable" for both ANT-A and B.

2

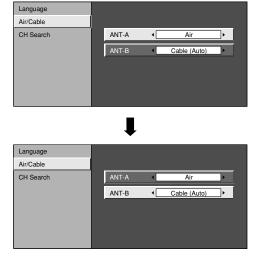
Press **◄/**▶ to select "Air" or "Cable" for ANT-A, then press **▲/**▼ to move down.

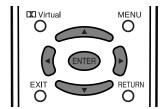
Press **◄**/**▶** to select "Air" or "Cable" for ANT-B.

Press **ENTER** to enter the setting.

- This operation makes the TV search for both ANT-A and B.
- 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



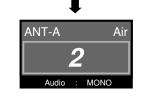


Channel search

3

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

Press **◄/▶** to select "Yes" for ANT-A, then press ▲/▼ to move down. Press **◄/▶** to select "Yes" for ANT-B, then press ▲/▼ to move down to select "Search Start", and press ENTER. Language Air/Cable CH Search Yes O No ANT-B O Yes Search Start **Example** CH Search ANT-A [25] Air Found [20] CH Search ANT-B Cable [25] Found [20]



NOTE

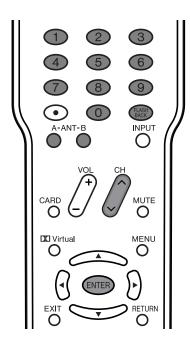
- Make sure what kind of connection is made with your TV when selecting "Air" or "Cable" for both ANT-A and B.
- If no channel is found, make sure what kind of connection is made with your TV and try EZ setup again (see page 24).

Simple button operations for changing channels

You can change channels in several ways.

NOTE)

• While watching a broadcast, press ANT-A/B to view the image received from the other tuner.



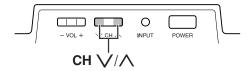
■ Using CH \(\forall \setminus \) on the remote control unit

- Press **CH** to increase the channel number.
- Press CHV to decrease the channel number.

NOTE

• CH \bigvee / \bigwedge on the Display operates the same as CH $\bigwedge /$ V on the remote control unit.

Display



\blacksquare Changing channels with CH $\land \land \lor \lor$ on the remote control unit or CH \bigvee / \bigwedge on the **Display**

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

 $2 \rightarrow 3 \rightarrow \dots \rightarrow 68 \rightarrow 69 \rightarrow 2 \rightarrow 3\dots$

Press $\mathbf{CH}\ \mathbf{V}$ and the channel change in the order shown below:

 $3 \rightarrow 2 \rightarrow 69 \rightarrow 68 \rightarrow \dots \rightarrow 3 \rightarrow 2\dots$

Cable: Press CH ∧ and the channel change in the order shown below:

 $1 \rightarrow 2 \rightarrow 3 \rightarrow ... \rightarrow 125 \rightarrow 1 \rightarrow 2 \rightarrow 3...$ Press **CH** \bigvee and the channel change in the order shown below:

 $3\rightarrow2\rightarrow1\rightarrow125\rightarrow...\rightarrow3\rightarrow2\rightarrow1\rightarrow...$

■ 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.

■ 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.



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

Complete the following steps within 3 seconds.



Press the **0** button.

• Complete the step 2 within 3 seconds after the step 1.



Press the 5 button.





Press **ENTER** 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.



Press the **1** button.

• Complete the step 2 within 3 seconds after the step 1.

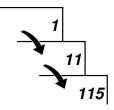


Press the 1 button again.

• Complete the step 3 within 3 seconds after the step 2.



Press the 5 button.





Press **ENTER** to enter the setting.

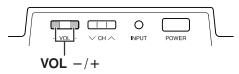
• Channel selection will be made if there is no operations for 3 seconds.

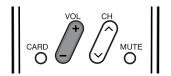
Simple button operations for changing volume/sound

■ Changing the volume

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

Display





■ Using VOL +/-

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

Volume adjustment



⊘NOTE

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

Audio status

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

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

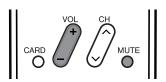


NOTE

• See page 60 for details on the output select function.

■ Using MUTE on the remote control unit

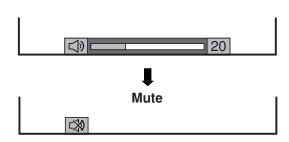
Mutes the current sound output.



1

Press MUTE.

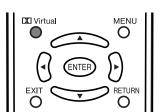
• "🖎" has been displayed on the screen for 30 minutes, and the sound is silenced.



⊘ 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.

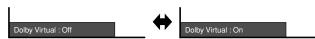
■ Using □□ Virtual on the remote control unit



Virtual produces Dolby virtual effect from the speakers. Each time you press UVirtual, the mode changes between On and Off.

Dolby Virtual 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 "Dolby Virtual" on the menu items. (See page 32.)

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).

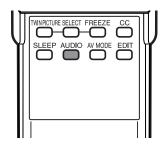
SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

If stereo sound is difficult to hear.

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

NOTE

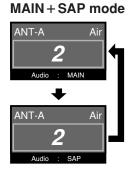
• MTS only operates while in TV mode.

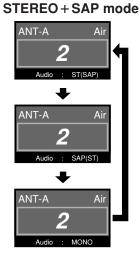


You can change MTS as shown below to match the television broadcast signal.

Examples: when receiving MTS and SAP

ANT-A Air Audio: STEREO ANT-A Air ANT-A Air ANT-A Air







AV input mode menu items

List of AV menu items to help you with operations



	_
OPC	Page 29
Backlight	Page 28
Contrast	Page 28
Brightness	Page 28
Color	Page 28
Tint	Page 28
Sharpness	Page 28
Advanced	•
C.M.S	Page 29
Color Temp	Page 30
Black	Page 30
3D-Y/C	Page 30
Monochrome	Page 31
Film Mode	Page 31
I/P Setting	Page 31

PC input mode menu items

List of PC menu items to help you with operations



OPC	Page 29
Backlight	Page 28
Contrast	Page 28
Brightness	Page 28
Red	Page 28
Green	Page 28
Blue	Page 28
Advanced	
C.M.S	Page 29



Treble	Page 32
Bass	Page 32
Balance	Page 32
Dolby Virtual	Page 32



No Signal Off	Page	33
No Operation Off	Page	33



EZ Setup	Page 24
CH Setup	Pages 25-26
Speaker Setup	Page 53
Input Label	Page 56
Parental CTRL	Pages 65-71
Position	Page 51
Picture Flip	Page 56
Language	Page 27

Option

Audio Only	Page 59
Digital Noise Reduction	Page 59
HDMI Setup	Page 49
Input Select	Page 55
Output Select	Page 60
Quick Shoot	Page 60
Center Channel Input	Page 72
Caption Setup	Pages 62-64



Treble	Page 32
Bass	Page 32
Balance	Page 32
Dolby Virtual	Page 32



Power	Management	Page 33
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Setup

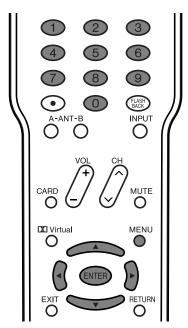
Speaker Setup	Page 53
Input Signal	Page 59
Auto Sync	Page 54
Input Label	Page 56
Fine Sync	Page 54
Picture Flip	Page 56
Language	Page 27

Option

Audio Only	Page 59
Input Select	Page 55
Output Select	Page 60
Quick Shoot	Page 60
Center Channel Input	Page 72

EZ setup

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



Language setting

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



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



Press **◄/▶** to select "Setup".



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

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

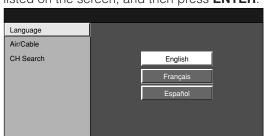


Input the 4-digit secret number by using **0** – **9**.





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



Antenna setting

Make sure what kind of connection is made with your TV when selecting "Air" or "Cable" for both ANT-A and B.

6

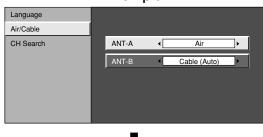
Press $\blacktriangleleft/\blacktriangleright$ to select "Air" or "Cable" for ANT-A, then press $\blacktriangle/\blacktriangledown$ to move down.

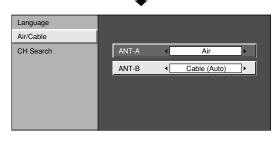
Press **◄/▶** to select "Air" or "Cable" for ANT-B

Press **ENTER** to enter the setting.

- This operation makes the TV search for both ANT-A and B.
- 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.

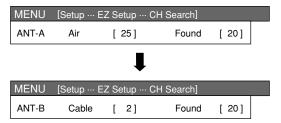
7

Press $\blacktriangleleft/\blacktriangleright$ to select "Yes" for ANT-A, then press $\blacktriangle/\blacktriangledown$ to move down.

Press ◀/▶ to select "Yes" for ANT-B, then press ▲/▼ to move down to select "Search Start", and press **ENTER**.



Searching TV channels Example

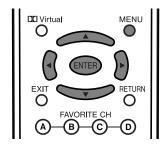


⊘ NOTE

- If no channel is found, make sure what kind of connection is made with your TV and try EZ setup again.
- Make sure what kind of connection is made with your TV when selecting "Air" or "Cable" for both ANT-A and B.

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 $\blacktriangle/\blacktriangledown$ to select "CH Setup", and then press **ENTER**.

 If you already set the Secret No., input the 4digit secret number here. See page 65 for setting a secret number.



4

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

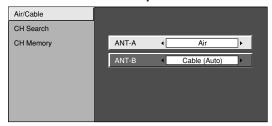
5

Press $\blacktriangleleft/\blacktriangleright$ to select "Air" or "Cable" for ANT-A, then press $\blacktriangle/\blacktriangledown$ to move down.

Press $\blacktriangleleft/\blacktriangleright$ to select "Air" or "Cable" for ANT-

Press **ENTER** to enter the setting.

Example



NOTE

- Make sure what kind of connection is made with your TV when selecting "Air" or "Cable" for both ANT-A and B.
- 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.



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



Press **◄/▶** to select "Setup".



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

 If you already set the Secret No., input the 4digit secret number here. See page 65 for setting a secret number.

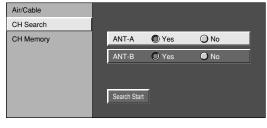


Press $\blacktriangle/\blacktriangledown$ to select "CH Search", and then press **ENTER**.

5

Press $\blacktriangleleft/\blacktriangleright$ to select "Yes" for ANT-A, then press $\blacktriangle/\blacktriangledown$ to move down.

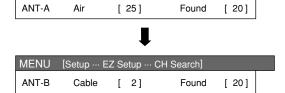
Press $\blacktriangleleft/\blacktriangleright$ to select "Yes" for ANT-B, then press $\blacktriangle/\blacktriangledown$ to move down to select "Search Start", and press **ENTER**.





Example: CH Search

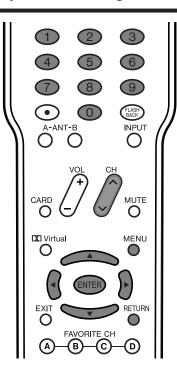
[Setup ··· EZ Setup ··· CH Search]



⊘ NOTE

MENU

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





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.

Channel memory setting



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

Press **◄/▶** to select "Setup".

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

- If you already set the Secret No., input the 4digit secret number here. See page 65 for setting a secret number.
- 4 Press ▲/▼ to select "CH Memory", and then press **ENTER**.

Example

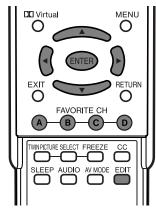


Press **◄/▶** to select ANT-A or B.

Press ▲/▼ and press ◄/► to select the channel you want to skip or not.

Favorite channel setting

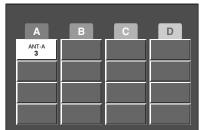
This function allows you to program 4 favorite channels, in 4 different categories. By setting the favorite channels in advance, you can select your favorite channels easily.



- Select the channel you want to register as a favorite channel.
- 2 Press EDIT.
 - Press ▲/▼ to select "Register", and then press ENTER.



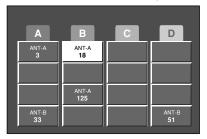
Press ▲/▼/◄/▶ to select the position in the area, and then press **ENTER** to register.



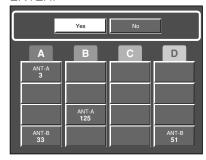
Delete favorite channel

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

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



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

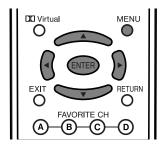
You can also select a language from the Setup menu. Select from among 3 languages: English, French and Spanish.

- 1 Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Setup".
- Press ▲/▼ to select "Language", and then press ENTER.
 - Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.



Picture adjustments

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



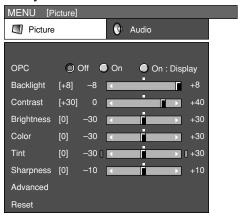
Press **MENU** and the MENU screen displays.

- Press **◄/▶** to select "Picture".
- Press ▲/▼ to select a specific adjustment
 - Press **◄/▶** to adjust the item to your desired position.

\bigcirc NOTE

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

Adjustments items for AV source

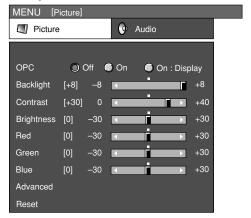


Selected item	⊲ button	▶ button
Backlight	The screen dims	The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For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

NOTE

Select "Advanced" and then press ENTER to set "C.M.S-Hue", "C.M.S-Saturation", "C.M.S-Value", "Color Temp." "Black", "3D-Y/C", "Monochrome", "Film Mode" or "I/P Setting". See pages 29 to 31.

Adjustments items for PC source



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
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

NOTE)

• Select "Advanced" and then press ENTER to set "C.M.S-Hue", "C.M.S-Saturation" and "C.M.S-Value".

OPC setting

Automatically adjusts the brightness of the screen.

1

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

2

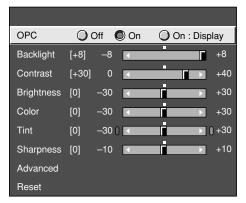
Press **◄/▶** to select "Picture".

3

Press ▲/▼ to select "OPC".

4

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



Selected item	Description
Off	No adjustment
On	Automatically adjusts
On: Display	Displays the OPC effect on the screen while adjusting the brightness of the screen.

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.

C.M.S. (Color Management System)

Color tone is managed using the six-color adjustment setting.

1

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

2

Press **◄/▶** to select "Picture".

3

Press $\blacktriangle/\blacktriangledown$ to select "Advanced", and then press **ENTER**.

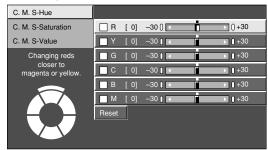
4

Press $\blacktriangle/\blacktriangledown$ to select "C.M.S-Hue", and then press **ENTER**.

• You can select "C.M.S-Saturation" or "C.M.S-Value" here instead of selecting "C.M.S-Hue".

5

Press $\blacktriangle/\blacktriangledown$ to select a specific adjustment item. Press $\blacktriangleleft/\blacktriangleright$ to adjust the item to your desired position.



Selected item	Description
C.M.S-Hue	This is a standard to adjust the color either more reddish or more bluish in tone.
C.M.S-Saturation	Increases or decreases the saturation of a selected color.
C.M.S-Value	A higher value makes the image brighter. A lower value makes the image darker.

⊘ NOTE

 For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Color temperature

For a better white balance, use color temperature correction.



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

2

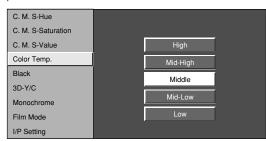
Press **◄/▶** to select "Picture".

3

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

4

Press $\blacktriangle/\blacktriangledown$ to select "Color Temp.", and then press **ENTER**.



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

Selected item	Description
High	White with Bluish tone
Mid-High	_
Middle	
Mid-Low	·
Low	White with Reddish tone

Black

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



Repeat steps 1 to 3 in Color temperature.



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



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

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.



Repeat steps 1 to 3 in Color temperature.



Press ▲/▼ to select "3D-Y/C", and then press **ENTER**.



Press $\blacktriangle/\blacktriangledown$ to select the desired level, and then press **ENTER**.

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

⊘NOTE

 3D-Y/C is not available for S-video, Component, DVI, HDMI, or CARD inputs.

Monochrome

For viewing a video in monochrome.



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 "Monochrome", and then press **ENTER**.





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

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.



Repeat steps 1 to 3 in **Monochrome**.

2

Press $\blacktriangle/\blacktriangledown$ to select "Film Mode", and then press **ENTER**.

3

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

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

I/P Setting

Adjusting the image and input signal can give you a more beautiful picture.



Repeat steps 1 to 3 in Monochrome.

2

Press ▲/▼ to select "I/P Setting", and then press **ENTER**.

3

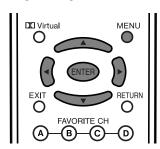
Press **◄/▶** to select "Interlace" or "Progressive", and then press **ENTER**.

⊘ NOTE

- I/P Setting is set to Progressive when Film Mode is "On".
- "I/P Setting" is not selectable when channel display shows an input resolution of 480P, 720P or 1080I.

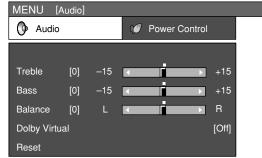
Sound adjustment

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



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

Press **◄/▶** to select "Audio". MENU [Audio] Audio



Press ▲/▼ to select a specific adjustment item.

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" or when headphones are in use.
- Balance and Audio Quality Control are grayed out when Dolby Virtual is set to "On"
- For resetting all adjustment items to factory preset values. press ▲/▼ to select "Reset", press ENTER, press ◀/▶ to select "Yes", and then press **ENTER**.

Dolby virtual

You can enjoy the SURROUND 2ch stereo with Dolby Pro Logic II technology.

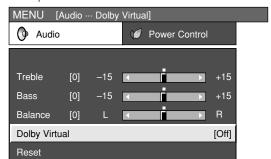
VIRTUAL DOLBY SURROUND is a technology certified by Dolby Laboratories that creates a virtualized surround sound experience from two speakers using Dolby Pro Logic or Dolby Pro Logic II.

VIRTUAL DOLBY SURROUND retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

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

Press **◄/▶** to select "Audio".

3 Press ▲/▼ to select "Dolby Virtual", and then press ENTER.



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

NOTE)

- You can choose Dolby Virtual by pressing Da Virtual on the remote control unit. See page 21 for Dolby Virtual.
- Audio menu is grayed out when Output Select is set to "Variable" or when headphones are in use.
- Balance and Audio Quality Control are grayed out when Dolby Virtual is set to "On"
- For some discs, setup may be required on your DVD. In this case, please refer to the operation manual of your DVD player.
- You may not get the Dolby Virtual Surround effect if you adjust "Treble" or "Bass" setting.

Power control

Power control setting allows you to save energy.

Power control for AV source

No signal off

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



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



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



Press $\blacktriangle/\blacktriangledown$ to select "No Signal Off", and then press **ENTER**.



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



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

NOTE)

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

No operation off

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



Repeat steps 1 and 2 in No signal off.



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



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

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

NOTE

• "Disable" is factory preset value.

Power control for PC source

Power control setting allows you to save energy.

Power management

When set, the power will automatically shut down.



Repeat steps 1 and 2 in No signal off.



Press $\blacktriangle/\blacktriangledown$ to select "Power Management", and then press **ENTER**.



Press $\blacktriangle/\blacktriangledown$ to select "Mode1" or "Mode2", and then press **ENTER**.



Selected item	Description
Off	No power managementFactory preset value.
Mode1	 If no signal inputs for 8 minutes, the power shuts down. Even if you start using the PC and the signal inputs again, the TV stays off. The TV turns on again by pressing TV POWER on the remote control unit. (See page 18).
Mode2	 If no signal inputs for 8 seconds, the TV enters standby mode. When you start using the PC and the signal inputs again, the TV turns on.

⊘ NOTE

- When using a digital PC and setting "Mode2" in Power management, the power may not turn back on automatically even if the signal inputs again.
- If you turn off the power by disconnecting AC cord when setting "Mode2" in power management, the TV may not function properly after turning the power on again. In such case, press **TV POWER** on the remote control unit.

Using memory card

Important notes on using memory cards

- We will not be liable for misuse of the TV set, any troubles during use, or other problems, or any damages arising out of the use of the TV set, except for the cases for which we are liable by statute.
- If you or other people misuse the TV set, or the TV set is affected by static electricity or electrical noise, the recorded data may be in danger of being changed or lost.
- If you are making a record of importance, run a test in advance to ensure that the recording would be performed correctly in terms of picture or sound quality.
- We do not capture responsibility nor compensate even if pictures or sound could not be recorded correctly because of troubles.

Copyright

Duplicating images and music by copying and/or editing from videocassettes and/or TV programs that are subject to copyrights is only permitted when the edited or copied versions are used for personal pleasure. With the exception of cases when the user personally is the owner of the copyrights of the object in question or when specific and written permission has been obtained from the owner(s) of the object in question, the user is not permitted to make copies and/or duplications and/or edited versions as this constitutes a violation of the copyright laws, possible exposing the user to demands for compensation for damages. Therefore, strictly adhere to the existing copyright laws.

In addition when using image data that includes third parties, the use without prior permission of these images may constitute an intrusion on the privacy of third parties, so strictly refrain from such usage.

The recording formats

Still picture	Recording/Playback file format	JPEG (DCF compliant)	
Still picture	Size of a captured still picture	640×480 dots	
Recording file format		SP/LP ASF (Motion Picture: MPEG-4 compliant, Sound: WMA-compliant) EP ASF (Motion Picture: MPEG-4 compliant, Sound: G.726-compliant)	
picture/numb	Size of a recorded motion picture/number of frames	SP Size: 320×240 dots, Frame: approx. 30 frames/sec LP Size: 320×240 dots, Frame: approx. 30 frames/sec EP Size: 320×240 dots, Frame: approx. 15 frames/sec	
	Playback file format	ASF (Motion Picture: MPEG-4 compliant, Sound: WMA-compliant) ASF (Motion Picture: MPEG-4 compliant, Sound: G.726-compliant)	

Approximate number of recordable pictures/time

Still Pictures

	Picture size	Memory card		
		32MB	128MB	
Still picture	640×480	Approx. 300 pictures	Approx. 1000 pictures	

^{*} Recordable numbers may vary depending on the receiving condition of the TV set and/or content of images.

Motion pictures

	Picture size	Recording mode	Memory card capacity	
Picture si	Ficture Size		256MB	5GB
Recordable time	320×240	SP	Approx. 10 min.	Approx. 4h.
	320×240	LP	Approx. 30 min.	Approx. 10h.
	320×240	EP	Approx. 1h.	Approx. 25h.

- Recordable time may vary depending on receiving condition of the TV set or content of images.
- The maximum amount of data you can record on a memory card is 1,024 pictures in total including still and motion pictures.

Using memory card

You can use memory cards (commercially available) for recording and playing back pictures.

- Please use an appropriate PC card adapter (commercially available) for each memory card.
- Following memory cards are available. (Note that names for memory cards vary depending on manufacturers.)

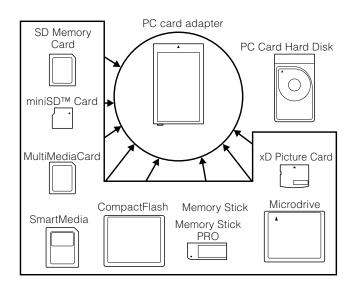
Memory card name	Storage capacity
SD Memory Card	512 MB or less
mini SD™ Card	32 MB or less
CompactFlash	2 GB or less
MultiMediaCard	128 MB or less
SmartMedia	128 MB or less
Memory Stick	128 MB or less
Memory Stick PRO	1 GB or less
Microdrive	2 GB or less
xD Picture Card	128 MB or less
PC Card Hard Disk	5 GB or less

- * Each memory card name is a trademark.
- *The capacity of memory card is approximate. The capacity varies depending on the manufacturer.
- To read picture files recorded with digital cameras, use the PC card adapter recommended by the corresponding manufacturer. (The names for PC card adapters vary depending on manufacturers.)
- For directions for use of digital cameras or PC card adapters, please refer to the operation manual provided for each product.

You can playback DCF compliant JPEG pictures captured with other devices in the card playback mode.

- DCF (Design rule for Camera File system) is a standard of the Japan Electronics and Information Technology Industries Association (JEITA). This standard specifies the image file format used for images shot with a digital camera.
- Some motion pictures recorded with other devices may not be played back correctly.

Commercially available memory cards



• Please use an appropriate PC card adapter (commercially available) for each memory card.

Preparing a memory card

Insert a memory card (commercially available) into a PC card adapter (commercially available).

Example:

Inserting the SD memory card into a PC card adapter.

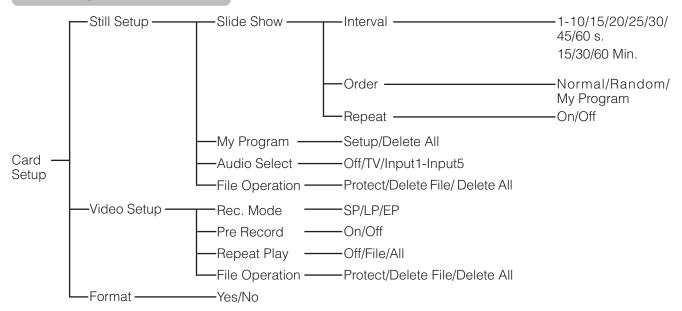


Notes on using memory cards and PC card adapter

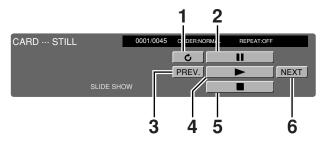
Please note the following when using memory cards and PC card adapters to avoid corruption of data or malfunction of the TV set.

- If you use memory cards other than those shown above, recording or playing back pictures are not guaranteed.
- Some PC card adapters have restrictions of memory card capacity. Refer to the relevant operation manual for such restrictions.
- Some pictures which have been created, modified, or copied on your PC may not be played back.
- Do not bend, drop or apply a shock to memory cards or PC card adapters.
- Keep memory cards or PC card adapters away from heat, water or direct sunlight.
- Do not dismantle or modify memory cards or PC card adapters.
- Refer to the appropriate operation manuals for details on using or keeping memory cards or PC card adapters.
- Do not turn the TV set off while a memory card is in operation (e.g. playing back, recording or displaying a slideshow).

Card Setup mode menu items

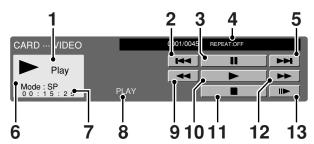


Slide show operation panel



- 1 Rotate the image
- 2 Pause
- **3** Go to previous image
- 4 Start slide show
- 5 Stop slide show
- 6 Go to next image

Motion picture operation panel



- 1 Action
- 2 Go back to the beginning of the file
- 3 Pause
- 4 Repeat playback setting
- **5** Go to the beginning of the next file
- 6 Recording mode
- **7** Counter
- 8 Current action
- 9 Reverse
- 10 Playback
- **11** Stop
- 12 Fast forward
- 13 Slow playback

Precautions when playing back PC image data on the TV

Recording formats of image data:

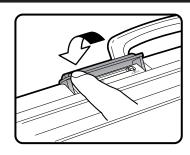
When recording image data on the TV, the recording formats are as follows.

- When recording motion pictures: The SD_VIDEO folder is created and the data is stored in. When playing the card, the SD_VIDEO recording format is recognized.
- When recording still pictures: The DCIM folder is created and the data is stored in. When playing the card, the DCIM recording format is recognized.

When playing the card, record PC data in a recording format the TV can recognize.

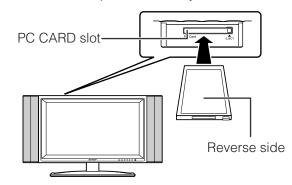
- 1. When copying motion pictures from a PC to a card recorded with the TV, only play these pictures after placing them in the SD_VIDEO folder.
- 2. When copying still pictures from a PC to a card recorded with the TV, only play these pictures after placing them in the DCIM folder.
- 3. When using a new card for copying motion pictures, first format the card and create an SD_VIDEO folder before placing the data in the folder for playback.
- 4. When using a new card for copying still pictures, first format the card and create a DCIM folder before placing the data in the folder for playback.

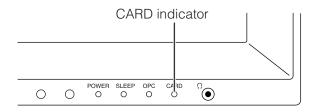
When creating, revising, or copying images using your PC, the edited images may not playback correctly.



Inserting a PC card adapter

- Press in the EJECT button if it is popped out.
- Insert a memory card to a PC card adapter beforehand. (See page 35.)
- Insert the PC adapter card slowly.





 CARD indicator lights up green when the card is inserted.

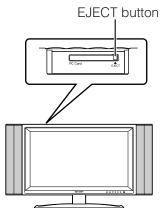
Ejecting the card

• Make sure the card indicator lights up green.



Press **EJECT** button.

• EJECT button is popped up.



2

Press **EJECT** button again.

NOTE

- When "Please insert a PC card" is displayed, eject the PC card adapter, and then insert the PC card adapter slowly all the way to the end.
- When over a thousand files are in a card, it takes several minutes to load. (approx. 5 minutes.)
- Even if the green light is on, you can not record on a card right after you inserted it.
- Make sure the CARD indicator lights green when you take out a card. Never take out a card when the CARD indicator lights red. This may damage the card.

Selecting Still and Video mode



Press **CARD** and the card mode screen displays.

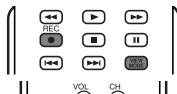


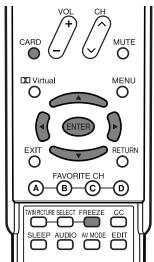
Press **◄/▶** to select "Still" or "Video", and then press **ENTER**.

 When in CARD mode, press 0-9 or INPUT to switch either TV or AV input mode.

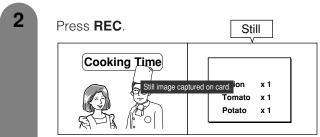
Recording a still image

You can record a still image on the card.





Press FREEZE. Still Cooking Time Onion x 1 Tomato x 1 Potato x 1



"Still image captured on card" displays.

3 Press **ENTER** to update the still image. Still Cooking Time

The list of broadcasting type or input signal not available for recording:

- 1 COMPONENT input 2 HDMI input 3 DVI-I input

- 4 Card picture5 Copy guarde Copy guarded signal
- 6 V-chip blocked program

Displaying a still image

- Press CARD and the card mode screen displays.
- Press **◄/▶** to select "Still", and then press ENTER.
- 3 Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select a file you want to display, and then press ENTER.



- · To display the files that are in the previous or next page, select **◄/▶** on the index screen and press ENTER.
- When viewing a still image, by pressing VIEW **MODE** the image size changes. Normal – Full. This function does not work when displaying the index screen.

Displaying slide show

Repeat steps 1 to 3 in Displaying a still image above.

The operation panel displays.



- Press $\triangle/\nabla/\blacktriangleleft/\triangleright$ to select \triangleright , and then press ENTER.
 - Slide show starts.
 - Operate slide show with the operation panel appears on the screen.
 - To turn off the operation panel, press CARD on the remote control.

NOTE

2

- See page 36 for operation panel function.
- You can not rotate the image during slide show. Stop slide show to rotate the image.

Setting Slide Show

You can adjust the interval, order and repeat settings.

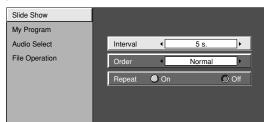


2 Press **MENU** and the MENU screen displays.

3 Press **◄/▶** to select "Card Setup".

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

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



Press ▲/▼/◄/▶ to select the desired slide show setting, and then press **ENTER**.

Selected item	Description
Interval	Set the frame interval for a slideshow.
Order	Set the frame order for a slideshow. See the right column for My Program setting.
Repeat	If set to On, the slideshow will play again after showing the last frame.

My Program

You can select up to thirty-two pictures and specify the order for displaying in slide show.

- 1 Repeat steps 1 to 4 in Setting Slide Show.
- Press ▲/▼ to select "My Program", and then press ENTER.
- Press **◄/▶** to select "Setup", and then press **ENTER**.
- Press ▲/▼/◄/▶ to select the files, and then press ENTER.
- Repeats the operation in step 4. (You can select up to 32 files.)
- After selecting all the files you want, press **RETURN** to return to MENU.

To cancel My Program setting

- Performs step 1 and 2 in My Program.
- Press **◄/▶** to select "Delete All", and then press **ENTER**.
- Press ◀/▶ to select "Yes", and then press ENTER.
 All the registered numbers are cleared.

Audio Select

You can enjoy the audio from TV or other external equipment during the still image playback.

- 1 Repeat steps 1 to 4 in Setting Slide Show.
- Press ▲/▼ to select "Audio Select", and then press ENTER.
- Press ▲/▼/◄/▶ to select the desired sound output, and then press ENTER.

Protecting/unprotecting still image files

You can protect any file you do not want to delete.



Repeat steps 1 to 4 in **Setting Slide show**.

2

Press $\blacktriangle/\blacktriangledown$ to select "File Operation", and then press **ENTER**.



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

4

Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select the file you want to protect, and then press **ENTER**.

- Select the file with a protect mark and press ENTER to unprotect it.
- **5** Repeats the operation in step 4.
- After setting the files you want to protect, press **RETURN** to return to MENU.

NOTE

You cannot delete a protected file on the card.

Deleting a still image file

- Repeat steps 1 to 2 in Protecting/ unprotecting still image files.
- Press ▲/▼ to select "Delete File", and then press ENTER.
- Press ▲/▼/◄/► to select the file you want to delete, and then press ENTER.
- Press **◄/▶** to select "Yes", and then press **ENTER**.
- Repeat the operations in steps 3 and 4 above.
- After deleting the images you no longer need, press **RETURN** to return to MENU.

♦ NOTE

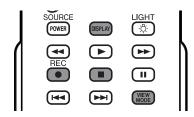
- You cannot delete a protected file on the card.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

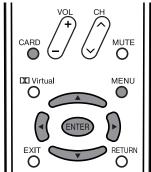
Deleting all still image files

- Repeat steps 1 to 2 in Protecting/ unprotecting still image files.
- Press ▲/▼ to select "Delete All", and then press ENTER.
- 3 Press **◄/▶** to select "Yes", and then press **ENTER**.

NOTE)

- You cannot delete a protected file on the card.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.





Recording a motion picture

Use this setting to record images you are currently

Record with the settings made in "Rec. Mode" and "Pre Record".



Press **REC** to start recording.

- CARD indicator lights up red.
- Recording information displays in the lower right corner of the screen.



Press to stop recording.

NOTE

The list of broadcasting type or input signal not available for recording:

- 1 COMPONENT input 2 HDMI input
- 3 DVI-I input
- (4) Card picture
- (5) Copy guarded signal
- 6 V-chip blocked program

To display the remaining record time.

Press **DISPLAY** while not recording.

• Remaining record time displays in the lower right corner of the screen.

NOTE)

- Do not press **POWER** on the display while recording. Recording cannot finish properly and may damage the
- Recording stops if you press **POWER** on the remote control while recording.
- When card has no capacity for recording, "Card is full" displays and stops recording.
- You cannot change the channel or switch the input source while recording.

Displaying a motion picture

Press CARD and the card mode screen displays.

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

Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select the file you want to play, and then press **ENTER**.

Video playback starts.

4

Press **CARD** again to display the operation

- See page 36 for the operation panel information.
- When viewing a motion picture, by pressing VIEW MODE the picture size changes. Small - Medium - Large.

Rec. Mode

Use this setting for recording images you are currently watching. You can select the recording mode (picture quality) for a motion picture.

Press **CARD** and the card mode screen displays.

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

Press **◄/▶** to select "Card Setup".

Press ▲/▼ to select "Video Setup" and then press ENTER.

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



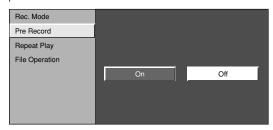
Press ▲/▼ to select the desired mode, and then press **ENTER**.

Pre Record

You can record the picture slightly before the point where you pressed the record button, enabling you to record just the scene you wanted.

1 Repeat steps 1 to 4 in Rec. Mode.

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



Press </br>
The to select "On", and then pressent the pressent that the pressent the pressent that the pressent the pressent that the pressent that the pressent that the

Repeat Play

You can specify one file or all files to replay repeatedly.

1 Repeat steps 1 to 4 in Rec. Mode.

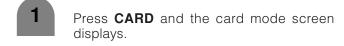
Press ▲/▼ to select "Repeat Play", and then press ENTER.

Press ▲/▼ to select desired setting, and then press **ENTER**.

Selected item	Description
Off	No playback or repeat.
File	Plays back and repeats one file.
All	Plays back all movie files on the card then repeats.

Protecting/unprotecting motion picture files

You can protect any file you do not want to delete.



- 2 Press **MENU** and the MENU screen displays.
- **3** Press **◄/▶** to select "Card Setup".
- Press ▲/▼ to select "Video Setup", and then press ENTER.
- Press ▲/▼ to select "File Operation", and then press **ENTER**.
- Press ▲/▼ to select "Protect", and then press ENTER.
- Press ▲/▼/◄/► to select the file you want to protect, and then press ENTER.
 - Protect mark () displays.
 - Select the file with a protect mark and press ENTER to unprotect it.
- Repeat the operation in step 7.
- After setting the files you want to protect, press **RETURN** to return to MENU.

Deleting a motion picture file

- Repeat step 1 to 5 in Protecting/ unprotecting motion picture files.
- Press ▲/▼ to select "Delete File", and then press ENTER.
- Press ▲/▼/◄/▶ to select the file you want to delete, and then press **ENTER**.
- Press **◄/▶** to select "Yes", and then press **ENTER**.
- Repeat the operations in steps 3 and 4 above.
- After deleting the images you no longer need, press **RETURN** to return to MENU.

NOTE

- You cannot delete a protected file on the card.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Deleting all motion picture files

- Repeat step 1 to 5 in Protecting/ unprotecting motion picture files.
- Press ▲/▼ to select "Delete All", and then press ENTER.
- Press </br>
 ↑ to select "Yes", and then press ENTER.

NOTE)

- You cannot delete a protected file on the card.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Format

1

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

2

Press **◄/▶** to select "Card Setup".

3

Press $\blacktriangle/\blacktriangledown$ to select "Format" and then press ENTER.

4

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



NOTE

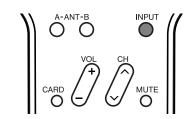
• Formatting a card deletes all files including the ones which set to protect.

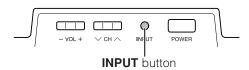
Using external equipment

You can connect many types of external equipment to your TV, like a DVD player, VCR, Digital TV tuner, PC, 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 Display.

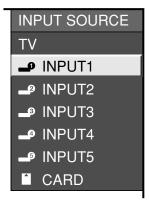
Displaying an external equipment image

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 Display. (See page 55.)



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

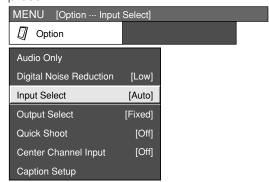
Press **MENU** and the MENU screen displays.

2

Press **◄/▶** to select "Option".

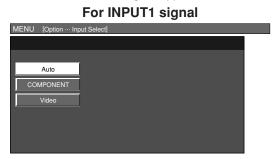
3

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



4

Select the desired signal type.



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

CAUTION

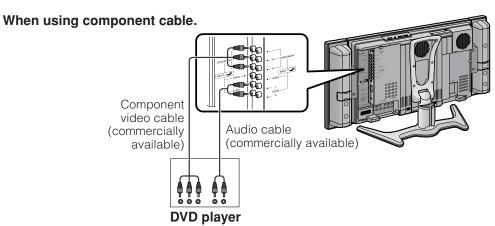
 To protect all equipment, always turn off the TV before connecting to a DVD player, VCR, Digital TV tuner, PC, HDMI equipment, game console, camcorder or other external equipment.

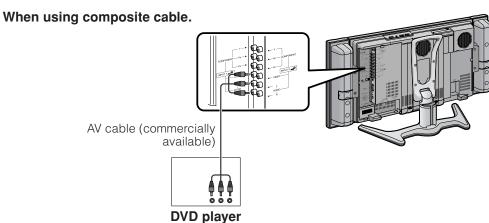
NOTE

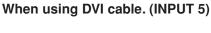
- See pages 46 to 50 for external equipment connection.
- Please refer to the relevant operation manual (DVD player, PC, etc.) carefully before making connections.
- Each time **INPUT** is pressed, the input source toggles.
- Refer to your external equipment operation manual for the signal type.

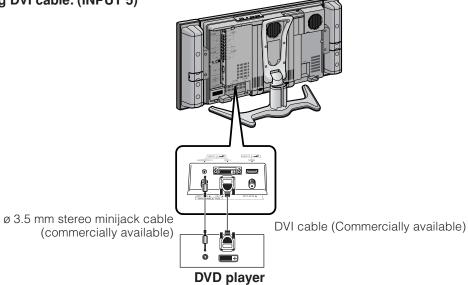
Connecting a DVD player

You can use the INPUT 1, INPUT 2, INPUT 4 or INPUT 5 terminals when connecting to a DVD player and other audiovisual equipment.









⊘ NOTE

• See page 49 for connecting a DVD player to HDMI terminal.

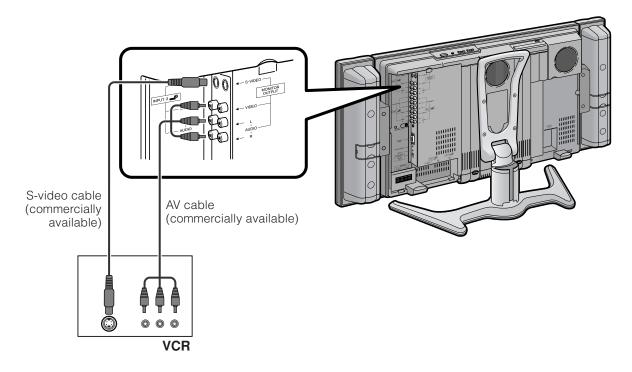
Using external equipment

Connecting a VCR

You can use the INPUT 3 terminal when connecting a VCR and other audiovisual equipment.

⊘NOTE

• The S-video terminal has priority over the video terminals.

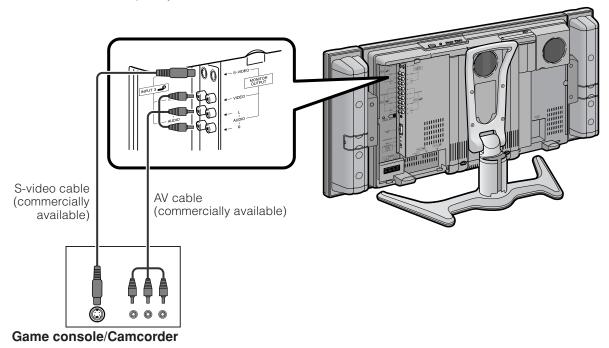


Connecting a game console or camcorder

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

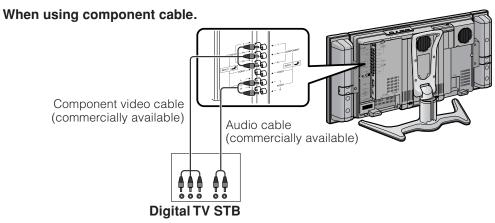
⊘ NOTE

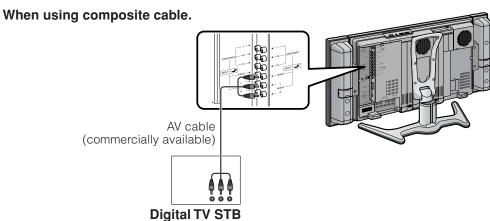
• The S-video terminal has priority over the video terminals.



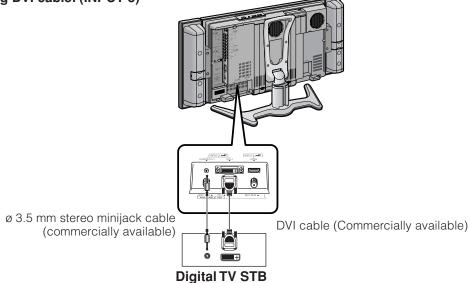
Connecting a Digital TV STB

You can use the INPUT 1, INPUT 2, INPUT 4 or INPUT 5 terminals when connecting a Digital TV STB and other audiovisual equipment.





When using DVI cable. (INPUT 5)

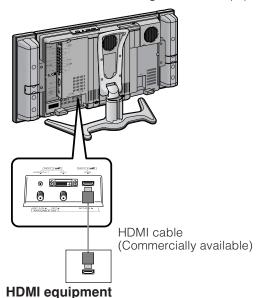


⊘NOTE

• See page 49 for connecting a Digital TV STB to HDMI terminal.

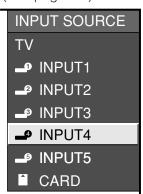
Connecting HDMI equipment

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 55.)



- 2 Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Option".

Output Select

Quick Shoot

Center Channel Input

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

MENU [Option ··· HDMI Setup]

☐ Option

Audio Only

Digital Noise Reduction [Low]

HDMI Setup

[Fixed]

[Off]

[Off]

- 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	Auto/RGB/YCbCr 4:4:4/YCbCr 4:2:2	Select the signal type from an HDMI terminal. Unless the image quality looks obviously poor, select Auto.
Color Matrix	Auto/ITU601/ ITU709	Select the internal color space conversion method when an RGB signal is input. Normally, select Auto.
Dynamic Range	Standard/ Out of standard	Select the signal amplitude range. Normally, select Standard.
Auto View	Enable/Disable	Set whether or not to use VIEW MODE based on signal recognition, including an HDMI signal.

NOTE)

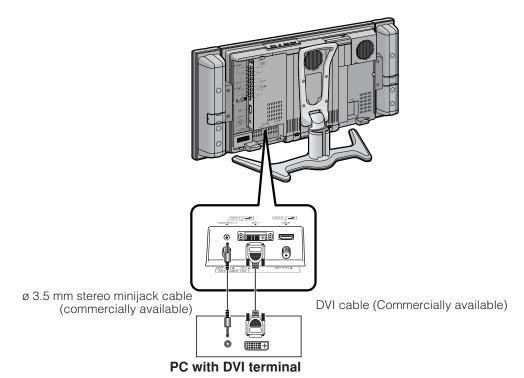
 Refer to your external equipment operation manual for the signal type.

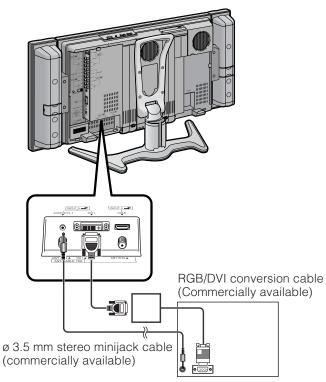
Connecting a PC

Use the INPUT 5 terminal to connect a PC.

⊘ NOTE

• Refer to page 79 for a list of PC signals compatible with the TV.

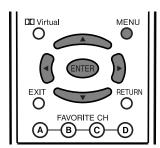




PC with analog RGB terminal

Image position (AV input mode only)

For adjusting a picture's horizontal and vertical position.



1 Press MENU and the MENU screen displays.

Press **◄/▶** to select "Setup".

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

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.

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.

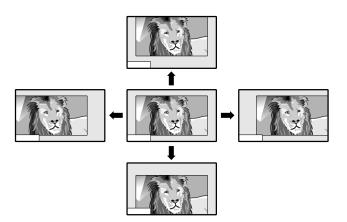
Moving the picture on the screen

You can move the picture around on the screen.

Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to move an image on the screen to the desired position. Press **ENTER** to return to the original image position.

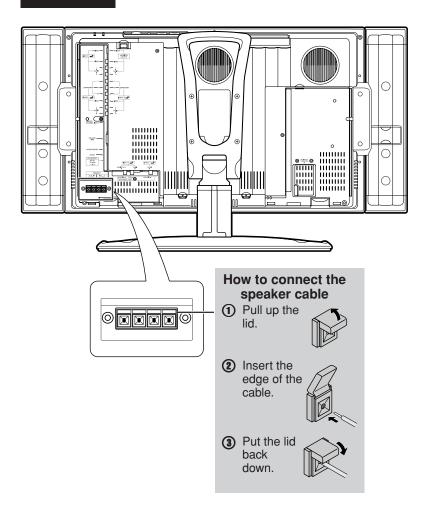
⊘ NOTE

- 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", "INPUT4" and "INPUT5" can each adjust the image position setting on this page. The same for view modes.
- An on-screen image from PC and card cannot be moved around.
- Even when the image fills the screen, its position can be adjusted with this function.
- Press **ENTER** to reset the image to original positions.



Connecting external speakers

Rear view



Make sure to disconnect the connected speaker cables in advance when connecting external speakers.

Make sure to connect the speaker terminal and cable polarity (+, -) properly

- The speaker terminals have plus (+) and minus (-) polarity.
- Plus is red and minus is black.
- The cables are also divided into plus and minus.
- When connecting the left/right speakers, be sure to connect the plus/minus terminals with the correct cables.

⊘ NOTE

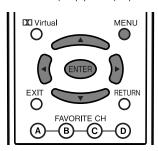
• Unplug the AC cord from the AC outlet before installing the speakers.

(CAUTION

- Make sure external speakers have 4 ohm and 10 watt specifications.
- Connect the plus/minus terminals with the correct cables.
 Incorrect connection may cause a short.

Audio Quality Control

Audio Quality Control automatically optimizes the audio quality to suit internal (supplied) speakers.



- 1 Press MENU and the MENU screen displays.
- Press **◄/**▶ to select "Setup".
- Press ▲/▼ to select "Speaker Setup", and then press ENTER.
- Press ▲/▼ to select "Audio Quality Control", and then press **ENTER**.
- Press **◄/▶** to select "Equalizer" or "Flat", and then press **ENTER**.

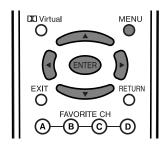
Selected item	Description
Equalizer	Sets the optimum Audio Quality Control for the attached speakers.
Flat	When you are using your own speakers, output the original sound without using Audio Quality Control.

⊘ NOTE

• When DOLBY Virtual is on, Audio Quality Control automatically sets to Flat.

Auto Sync. adjustment (PC input mode only)

For automatically adjusting the PC image.



- Press MENU and the MENU screen displays.
- Press **◄/▶** to select "Setup".
- Press ▲/▼ to select "Auto Sync.", and then press ENTER.
- Press **◄/▶** to select "Yes", and then press ENTER.
 - · Auto Sync. starts and "Now adjusting the image" displays.





NOTE

- When Auto Sync. is successful, "Auto Sync completed successfully" displays. If not, Auto Sync. failed.
- Auto Sync. may fail even if "Auto Sync completed successfully" displays.
- Auto Sync. may fail if the computer image has low resolution, has unclear (black) edges, or is moved while executing Auto Sync.
- Be sure to connect the PC to the TV and switch it on before starting Auto Sync.

Fine Sync. adjustment (PC input mode only)

Ordinarily you can easily adjust the picture as necessary to change image position using Auto Sync. In some cases, however, manual adjustment is needed to optimize the image.

- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Setup".
- Press ▲/▼ to select "Fine Sync.", and then press **ENTER**.
- 4 Press ▲/▼ to select the specific adjustment item.



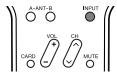
Press **◄/▶** to adjust the item to your desired position.

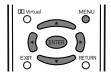
NOTE

For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

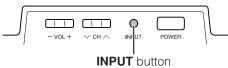
Selected item	Description
H-Pos.	Centers the image by moving it to the left or right.
V-Pos.	Centers the image by moving it up or down.
Clock	Adjust when the image flickers with vertical stripes.
Phase	Adjust when characters have low contrast or when the image flickers.

Input Select





Display



Selecting input source

Use this menu to select the input source.



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, Input 2 or 5 terminals.



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

2

Press **◄/▶** to select "Option".

3

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

4

Press $\blacktriangle/\blacktriangledown$ 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)

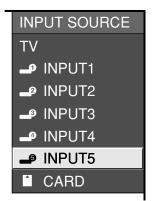
- If you set INPUT1 and INPUT2 to Auto, the TV will automatically select the input signal.
- Check the operation manual of the external equipment for the signal type.
- Setting INPUT 1 and INPUT 2 signal selection to "Auto" when other equipment is connected will result in the following connectivity priority.

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

DVI input signal setting

1

Press **INPUT** to select INPUT5.

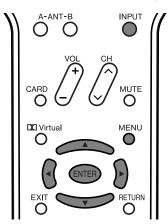


- 2 Press **MENU** and the MENU screen displays.
- **3** Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Input Select", and then press ENTER.
- Press ▲/▼ to select the equipment connected to INPUT 5 terminal, and then press **ENTER**.



Input Label

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



- 1 Press **INPUT** to select INPUT1.
- 2 Press **MENU** and the MENU screen displays.
- **3** Press **◄/▶** to select "Setup".
- Press ▲/▼ to select "Input Label", and then press ENTER.
- Press ▲/▼/◄/▶ to select the new name for the channel, and then press **ENTER**.



(Example)

⊘ NOTE

 You cannot change labels if the INPUT SOURCE is TV or CARD.

Picture flip

You can set the orientation of the picture.

- 1 Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Setup".
- Press ▲/▼ to select "Picture Flip", and then press ENTER.
- Press ▲/▼ to select the desired mode, and then press **ENTER**.

[Standard]: normal image.



[Mirror]: mirror image.



[Upside Down]: upside down image.

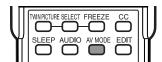


[Rotate]: rotated image.



AV MODE

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





Press AV MODE.

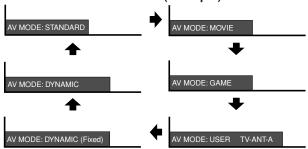
• Present AV MODE displays.



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

• The mode changes as shown below.

Mode selection for TV, INPUT 1 to 5 terminals and CARD mode (Example)



Mode selection for the PC terminal (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



Press VIEW MODE.

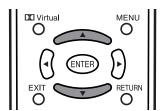
- The View mode menu displays.
- The menu lists the view mode options selectable for the type of video signal currently received.



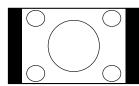
Press **VIEW MODE** or **▲**/**▼** while the View mode menu is still on the screen.

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



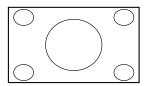






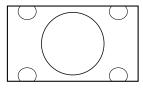
Side Bar:

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



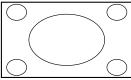
S.Stretch: (Smart stretch)

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



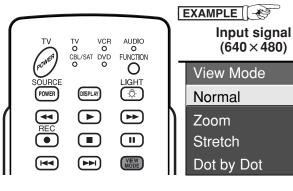
Zoom:

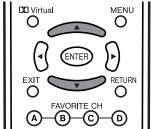
Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.



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.





Input signal (1024×768)

View Mode Zoom Stretch Dot by Dot

View mode (for PC input mode)

You can select the screen size.

NOTE)

- Connect the PC before making adjustments. (See page
- Selectable screen size may vary with input signal type.



Press VIEW MODE.

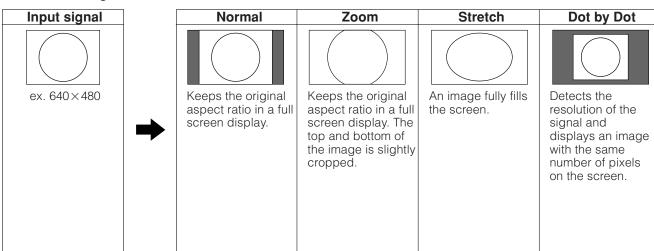
• The View mode menu displays.

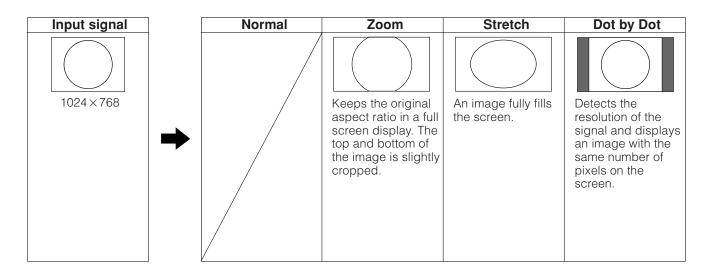


Press VIEW MODE or ▲/▼ to select a desired item on the menu.



Screen size images.





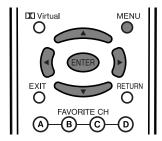
Input signal (for PC input mode)

- Some input signals may have to be registered manually to display properly.
- The pairs of input signals (resolutions) in the list below are not distinguishable when received. In such case, you have to set the correct signal manually. After setting once, it will display when the same signal (resolution) is input again.

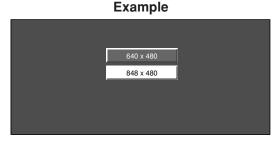
640×400	720×400
640×480	848×480
1024×768	1280×768

NOTE

 You can only select the "Input Signal" on the Setup menu when receiving one of the 6 input signals listed above.

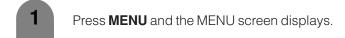


- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Setup".
- Press ▲/▼ to select "Input Signal" and then press **ENTER**.
- Press ▲/▼ to select the desired input signal on the display.



Digital Noise Reduction

Produces a clearer video image.



- Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Digital Noise Reduction", and then press **ENTER**.
- Press ▲/▼ to select the desired level, and then press ENTER.

Audio only

4

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

- Repeat steps 1 and 2 in Digital Noise Reduction.
- Press ▲/▼ to select "Audio Only", and then press ENTER.
- Press <a>/▶ to select "On", and then press ENTER.

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

Output Select

Allows you to select what controls the audio output.



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



Press **◄/▶** to select "Option".



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



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

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

Quick shoot

Use Quick Shoot Operation to record action video more clearly.



Repeat steps 1 and 2 in Output Select.



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



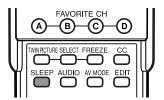
Press **◄/▶** to select "On", and then press ENTER.

NOTE

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

Sleep timer

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



Press **SLEEP**.

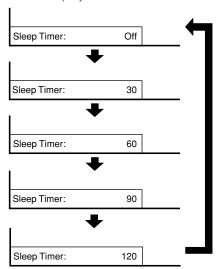
• Remaining time displays when sleep timer has been set.





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

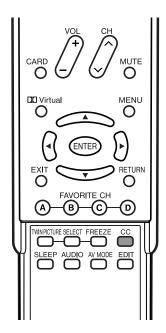
- When set, the time automatically starts counting
- If you want to adjust the sleep timer, you can press SLEEP twice then change the time
- Five minutes before time expires, the remaining time displays each minute.



- Select "Off" by pressing **SLEEP** to cancel the sleep timer.
- If the sleep timer is activated when set to zero, the TV will enter STANDBY mode.

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
 Display.
- 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.

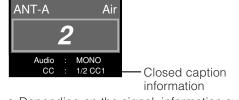


Press CC.
• Present CC mode displays.

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

The Closed Caption toggles.

ANT-A Air



 Depending on the signal, information such as 1/4 or 1/2 will appear.
 1/2 shows the first of two services.

1/2 shows the first of two services. Example:

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



NOTE

- See page 62 to 64 for the detailed closed caption settings.
- When using Twin Picture functions (see page 73), Closed Caption on the program of the active screen is displayed.
- When using Twin Picture functions, the right screen (still image) cannot display Closed Caption.
- 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.

Caption Size

Select a caption size.



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

2

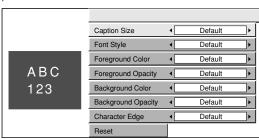
Press **◄/▶** to select "Option".

3

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

4

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





Press **◄/▶** to select the desired size, and then press **ENTER**.

⊘ NOTE

- Default: The caption size specified by broadcasting station or default size.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Font Style

Select a font style.



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



Press **◄/▶** to select "Option".



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



Press $\blacktriangle/\blacktriangledown$ to select "Font Style", and then press **ENTER**.



Press $\blacktriangleleft/\blacktriangleright$ to select the desired style, and then press **ENTER**.

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

NOTE

 For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Foreground Color

Select a character foreground color.

1

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

2

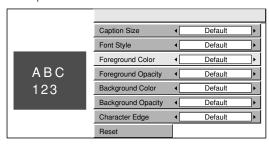
Press **◄/▶** to select "Option".

3

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

4

Press \triangle/∇ to select "Foreground Color", and then press **ENTER**.



5

Press **◄/▶** to select the desired color, and then press **ENTER**.

⊘ NOTE

- Default: The foreground color specified by broadcasting station or default color.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Foreground Opacity

Select a foreground opacity value.



Repeat steps 1 to 3 in **Foreground Color**.



Press \triangle/∇ to select "Foreground Opacity", and then press **ENTER**.



Press **◄/▶** to select the desired value, and then press **ENTER**.

⊘ NOTE

- Default: The foreground opacity value specified by broadcasting station or default opacity value.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Background Color

Select a character background color.



Repeat steps 1 to 3 in Foreground Color.

2

Press $\blacktriangle/\blacktriangledown$ to select "Background Color", and then press **ENTER**.

3

Press $\blacktriangleleft/\blacktriangleright$ to select the desired color, and then press **ENTER**.

⊘ NOTE

- Default: The background color specified by broadcasting station or default color.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Background Opacity

Select a background opacity value.



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



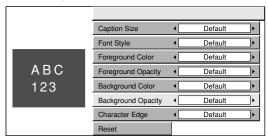
Press **◄/▶** to select "Option".



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



Press $\blacktriangle/\blacktriangledown$ to select "Background Opacity", and then press **ENTER**.





Press **◄/▶** to select the desired value, and then press **ENTER**.

⊘ NOTE

- Default: The background opacity value specified by broadcasting station or default opacity value.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

Character Edge

Select a character edge.



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

2

Press **◄/▶** to select "Option".

3

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

4

Press $\blacktriangle/\blacktriangledown$ to select "Character Edge", and then press **ENTER**.

5

Press **◄/▶** to select the desired setting, and then press **ENTER**.

⊘NOTE

- Default: The character edge specified by broadcasting station or default edge.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

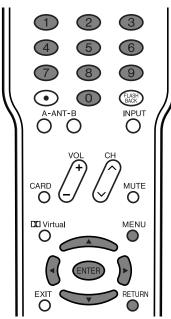
Secret number setting for parental control (AV input mode only)

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 67 to 71):

- 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.

Press **◄/▶** to select "Setup".

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

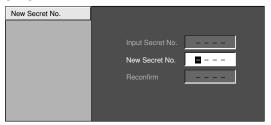
Press ▲/▼ to select "Secret No.", and then press ENTER.

MENU [Setup --- Parental CTRL]

Secret No.

Select "New Secret No.", and then press ENTER.

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



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



Press **RETURN** to start configuring V-Chip settings. (See pages 68 and 70 for details.)

Setting parental control status

Used to enable or disable the parental control function.

Repeat steps 1 to 3 in Setting a secret number.

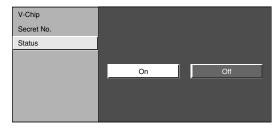
• Secret number setting menu displays.

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

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

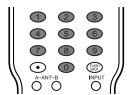
Press **◄/▶** to select "On" or "Off", and then press **ENTER**.

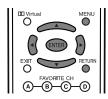
 Select "On" to enable and "Off" to disable Parental CTRL.



NOTE

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





Changing the secret number

Allows you to change your current secret number.



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

• Secret number setting menu displays.



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



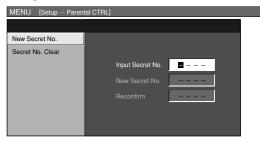
Press ▲/▼ to select "Secret No.", and then press **ENTER**.



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

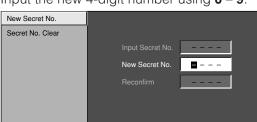
5

Input the old 4-digit number you have set using $\mathbf{0} - \mathbf{9}$.



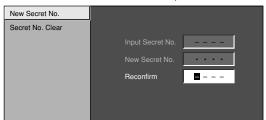
6

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.



Repeat steps 1 to 3 in **Setting a Secret Number**.

• Secret number setting menu displays.



Input the 4-digit secret number by using $\mathbf{0} - \mathbf{q}$



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

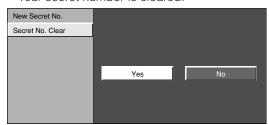


Press \triangle/∇ to select "Secret No. Clear", and then press **ENTER**.



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

Your secret number is cleared.



NOTE

- See page 65 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 84.)
- If the secret number is cleared the Status setting automatically sets to "Off". "V-Chip" and "Status" will not be selectable from the menu.

Parental control (setting V-CHIP level)

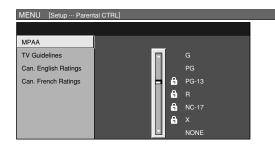
V-CHIP is an electronic filtering device built into your TV. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you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

"V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 65 for Secret number setting for parental control.)

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

Voluntary movie rating system (MPAA)

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





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

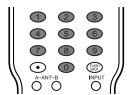
⊘ NOTE

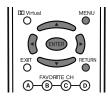
• Voluntary movie rating system only uses an age-based rating.

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)	Χ				
	TV-G (General audience)					
	TV-PG (Parental Guidance suggested)		Х	Χ	Х	Х
	TV-14 (Parents strongly cautioned)		X	Χ	X	Х
	TV-MA (Mature audience only)		Х	Χ	Х	

X: Content rating can be set.





Voluntary movie rating system (MPAA)

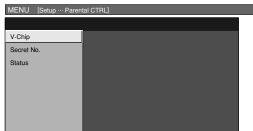
Press **MENU** and the MENU screen displays.

Press **◄/▶** to select "Setup".

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

- Secret number setting menu displays only when "Secret No." is set. (See page 65.)
- "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 65.)
- Input the 4-digit secret number by using 0 -

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



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

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 65.)

Example



TV Parental Guidelines (TV Guidelines)

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

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

3

Press ▲/▼ to adjust the item to your desired position. "a" indicates the item is blocked.

 The setting automatically enters "Block" for any ratings below your selection.

Example



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

- ① Press ▶ to access block content items from the currently selected age-based rating item.
- ② Press ▲/▼ to select an individual item, and then press ENTER to unblock ("6" 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 65.)

Canadian Rating Systems

- The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.
- While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.

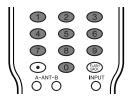
 • When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the
- Canadian French ratings.

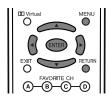
Canadian English ratings

Rating		Description		
	E	Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.		
	С	Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.		
Age	C8+	Children over 8 years old: Contains no portrayal of violence as the preferred, acceptate 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	Е	Exempt programming.		
	G	General: All ages and children, contains minimal direct violence, but may be integrate into the plot in a humorous or unrealistic manner.		
	8ans+	General but inadvisable for young children: May be viewed by a wide public audience 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.		





Canadian English ratings

1

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

2

Press **◄/▶** to select "Setup".

3

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

- Secret number setting menu displays only when "Secret No." is set. (See page 65.)
- "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page 65.)





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

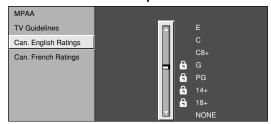


Press ▲/▼ to select "Can. English Ratings", and then press **ENTER**.

Press ▲/▼ to adjust the item to your desired position. "❸" 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 65.)

Example



Canadian French ratings

Repeat steps 1 to 5 in Canadian English ratings.

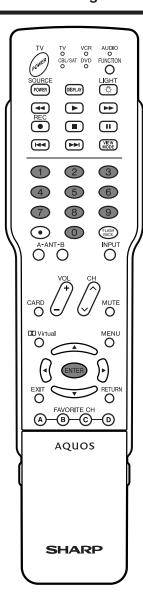
Press ▲/▼ to select "Can. French Ratings", and then press **ENTER**.

Press ▲/▼ to adjust the item to your desired position. "♣" indicates the item is blocked.

- The setting automatically enters "Block" for any ratings below your selection.
- If Status is not set to "On" the configuration settings will not work. (See page 65.)

Example





How to temporarily release the V-CHIP BLOCK

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



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



Enter your 4-digit secret number with $\mathbf{0} - \mathbf{9}$ 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 65.

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 68 and 70.

Method 3:

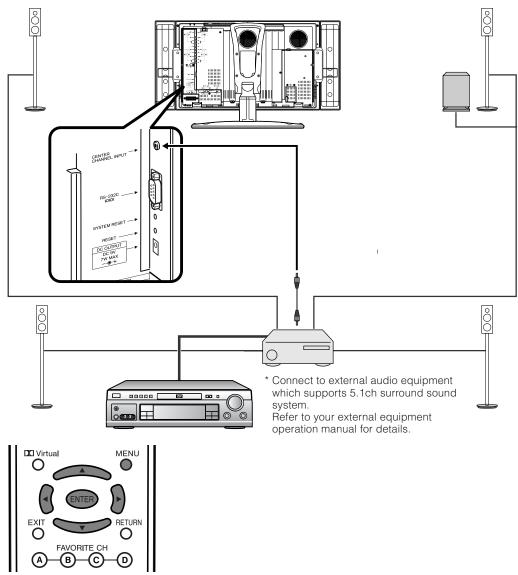
Switch off the TV power.

NOTE

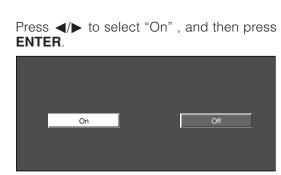
 Performing any of the three above will activate the V-CHIP BLOCK.

Center Channel Input

You can use the speakers as center speaker when using 5.1ch surrounding sound system.



- 1 Press **MENU** and the MENU screen displays.
- Press ◀/▶ to select "Option", and then press ENTER.
- Press ▲/▼ to select "Center Channel Input", and then press ENTER.



⊘ NOTE

4

• Sound from Center Channel Input terminal is output from the speakers.

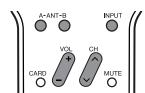
Other viewing options

Twin picture functions

Allows you to display two pictures on the screen at one time.

Twin picture in all cases

You can display two same-sized pictures except when inputting from INPUT 4 (HDMI) and INPUT 5 (DVI-I) terminals and CARD.

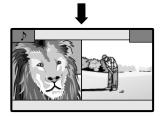




1 Press TWIN PICTURE.

• Twin picture displays and a selected input source image displays.





Press **SELECT** to set either screen to be active.

• " ">" displays on the active screen, which has sound output.



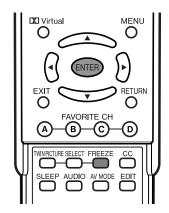
Press **TWIN PICTURE** to exit twin picture.

NOTE

- This function does not work under the following input conditions:
 - 1 INPUT 4 (HDMI),
 - (Ž) INPŪT 5 (DVI-I),
 - (3) CARD.
 - Two pictures from the same source (e.g. INPUT 1 and INPUT 1),
 - (5) An image will appear on the right side only if it is a 480i signal.
 - * An SDTV image has a 480p signal, so it will not appear either
- When this function is not available, "No dual screen display available" will display.
- Pressing ANT-A/B while viewing in Twin Picture mode (TV image and video image) with TV selected will display the TV image of the other tuner.
- A message "Cannot switch screens" will appear.

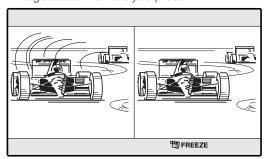
Picture and still image

You can display two same-sized pictures – one moving and one still.



Press FREEZE.

 A moving image displays on the left screen and a still image displays on the right screen. The still image is one frame captured from a moving image at the moment you press FREEZE.



Update the still image by pressing **ENTER**.

- Each time you press ENTER, the image on the right screen updates.
- If a PC card with enough capacity is inserted in the card slot, a message will appear on the screen asking you whether to save the image.
 Press REC on the remote control if you want to save.
- Press **FREEZE** to exit still image.

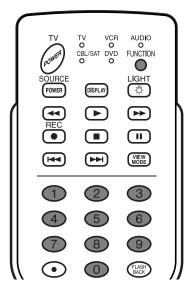
NOTE

3

- This function does not work in INPUT 4 (HDMI), INPUT 5 (DVI-I) and CARD.
- When this function is not available, "No still image display available." will display.
- Another image can be saved if a PC card with enough capacity is inserted in the card slot.
- The still image automatically goes out after 30 minutes.
- If you are using FREEZE and a broadcast activates the V-CHIP BLOCK, FREEZE will cancel and a block message will appear.

Presetting remote control function

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



Presetting manufacturer codes



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

2

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

3

Press $\mathbf{0} - \mathbf{9}$ to enter the manufacturer code. (See page 75.)

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



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

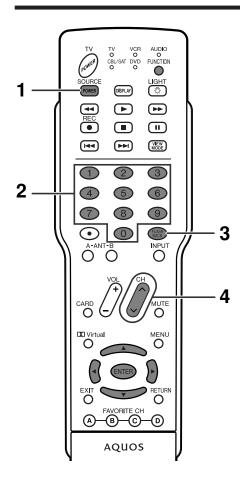
Manufacturer codes

VCR BRAND	REMOTE CONTROL CODE NUMBER
AL :	
Akai	25, 26, 37
Audio Broksonic	15, 22, 30 32
Canon	04
Capehart	34
Craig	10, 31
Curtis Mathis	04
Daewoo	34
DBX	15, 22, 30
Dynatech	29
Emerson	21, 32, 35
Fisher Funai	09, 10, 11 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 31
Magnin 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 Philco	05, 06 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 Sony	36 12, 13, 38
Sound Design	29
Sylvania	05, 08
Symphonic	29
Tatung	15
Teac	15, 29
Teknika	27, 29
Thomas	29
TMK Toshiba	21 19, 20
Video Concepts	30
Yamaha	15, 29, 30
Zenith	16

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

CATV CONVERTER BRAND	REMOTE CONTROL CODE NUMBER
Anvision	04, 05
Cable Star	04, 05
Eagle	05
General Instrument	02, 03, 07, 12, 13, 14,
Jerrold	19, 22 02, 03, 07, 12, 13, 14,
Jerroid	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,
Pioneer	20, 21, 24, 25 08, 10, 29, 30, 46
Randtek	04, 05
RCA	16, 27, 44, 45
Scientific Atlanta	01, 26
Sony	28
Viewstar	04, 05, 09, 15, 17, 18,
Zonith	20, 21, 24, 25
Zenith	06, 14

AUDIO BRAND	REMOTE CONTROL CODE NUMBER
Sharp	01



Cable control buttons

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

1 SOURCE POWER

Turns the cable converter power on and off.

20 - 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 ▲/▼

Press $\mathbf{CH} \ \ \ \, \mathbf{\Delta}$ or $\mathbf{CH} \ \ \, \mathbf{V}$ to tune in a higher or lower channel.

* Some manufacturers do not preset FLASHBACK.



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



1 SOURCE POWER

Turns the Satellite broadcast tuner power on and off.

2 0 − **9**, • (DOT)

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

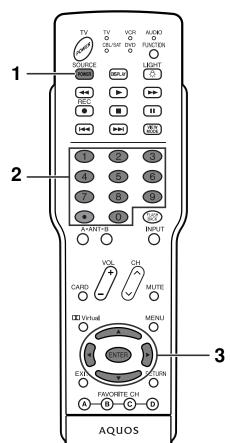
3 ENTER, **▲**/▼/**◄**/▶

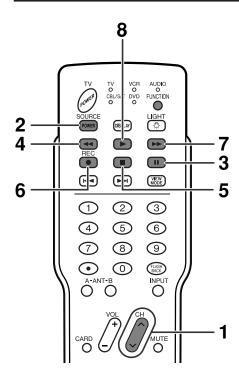
ENTER: Press to activate the selected function.

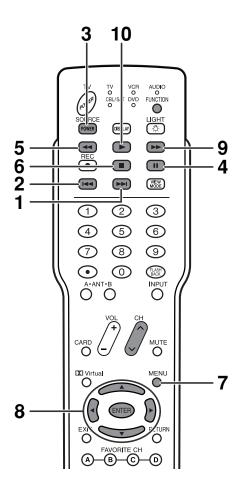
▲/▼/◀/▶: Press the button to select items on the SAT GUIDE screen or SAT MENU screen.



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







VCR control buttons

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

• When the input selector button having the same number as the input terminal connecting the VCR is pressed, the VCR can operate using 1 to 8.

1 CH ▲/▼

Press to select the channel of the TV tuner on the VCR.

2 SOURCE POWER

Turns the power of the VCR on and off.

3

Sets pauses and still pictures.

4

Rewinds the tape and allows picture search.

5

Stops the tape transport.

6 REC

Starts recording.

7

Rapidly advances the tape and allows picture search.

8

Starts playback.

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.

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.

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

Troubleshooting

Problem	Possible Solution
No power	 Check if you pressed TV POWER on the remote control unit. (See page 18.) If the indicator on the Display lights up red, press TV POWER on the remote control unit. Is the AC cord disconnected? (See page 8.)
	Has the power been turned on? (See page 18.)
Unit cannot be operated.	 External influences such as lightning, static electricity, may cause improper operation. In this case, operate the unit after first turning on the power of the Display or unplugging the AC cord and replugging it in after 1 or 2 minutes.
Remote control unit does not operate.	 Is the FUNCTION set correctly? Set it to the TV setting position. Are batteries inserted with polarity (+, -) aligned? (See page 11.) Are batteries worn out? (Replace with new batteries.) Are you using it under strong or fluorescent lighting? Is a fluorescent light illuminated near the remote control sensor?
Picture is cut off/with sidebar screen.	 Is the image position correct? (See page 51.) Are screen mode adjustments such as picture size made correctly? (See pages 57 and 58)
When playing back video in card mode, a part of the image is missing or the image is out of position.	The video playback setting has been affected as a result of moving the image position when playing back a still image in card mode. It is recommended not to move the image position when playing back images from a card.
Strange color, light color, or color misalignment	 Adjust the picture tone. (See pages 28 to 31.) Is the room too bright? The picture may look dark in a room that is too bright. Check the input signal setting. (See page 59.)
Power is suddenly turned off.	 Is the sleep timer set? (See page 60.) Check the power control settings. (See page 33.) The unit's internal temperature has increased. Remove any objects blocking vent or clean.
No picture	 Is connection to other components correct? (See pages 46 to 50.) Is correct input signal source selected after connection? (See page 55.) Is the correct input selected? (See page 55.) Is a non-compatible signal being input? (See page 79.) Is picture adjustment correct? (See pages 28 to 31.) Is "On" selected in "Audio Only"? (See page 59.)
No sound	 Is the volume too low? (See page 21.) Is "Variable" selected in "Output Select"? (See page 60.) Is "On" selected in "Center Channel Input"? (See page 72.)

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)

PC compatibility chart

PC/MAC	Res	solution	olution Horizontal Frequency Vertical Frequency		VESA Standard
PC		640 x 400	31.5 kHz	60 Hz	
		040 X 400	37.9 kHz	85 Hz	0
		720 x 400	31.5 kHz	60 Hz	
	VGA	720 x 400	37.9 kHz	85 Hz	0
	VGA		31.5 kHz	60 Hz	0
		640 x 480	37.9 kHz	72 Hz	0
		040 x 400	37.5 kHz	75 Hz	0
			43.3 kHz	85 Hz	0
	WVGA	848 x 480	31.5 kHz	60 Hz	
	SVGA		35.1 kHz	56 Hz	0
			37.9 kHz	60 Hz	0
		800 x 600	48.1 kHz	72 Hz	0
			46.9 kHz	75 Hz	0
			53.7 kHz	85 Hz	0
			48.4 kHz	60 Hz	0
	XGA	1024 x 768	56.5 kHz	70 Hz	0
	AGA	1024 x 700	60.0 kHz	75 Hz	0
			68.7 kHz	85 Hz	0
	WXGA	1280 x 720	45.0 kHz	60 Hz	
	WAGA	1280 x 768	48.1 kHz	60 Hz	
	SXGA	1280 x 1024	64.0 kHz	60 Hz	0
MAC13"	VGA	640 x 480	34.9 kHz	67 Hz	
MAC16"	SVGA	832 x 624	49.7 kHz	75 Hz	
MAC19"	XGA	1024 x 768	60.2 kHz	75 Hz	

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DDC is a registered trademark of Video Electronics

Standards Association.
Power Management is a registered trademark of Sun Microsystems, Inc.
VGA and XGA are registered trademarks of International Business Machines Co., Inc.

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 display'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

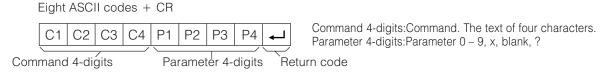
Communication procedure

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.

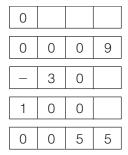
Command format



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".) No problem to input any numerical value for "x" on the table.



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

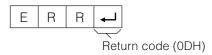
?			
?	?	?	?

Appendix

Response code format

Normal response Return code (0DH)

Problem response (communication error or incorrect command)



Command table

• About the command except being indicated here, it is outside the guarantee range of operation.

CONTROL IT	EM	C	OM	ΛΛΔ	ND	Тр	ΔR	ME	TER	aТ		CONTROL CONTENTS
POWER SETTING	LIVI				/ R		1	i	T	1		It shifts to standby.
INPUT SELECTION A	TOGGLE	-		-	D	_	- -	+	÷	1	Toggle)	It input-switches by the toggle. (It is the same as an input change key)
IN OT SELECTION A	TV				D			+-	÷	- \	roggie)	It input-switches by the toggie: (It is the same as an input change key)
	INPUT1-5				D			+	÷	-	nput terminal number (1-5)	It input-switches to INPUT1~INPUT5.
	CARD				D		+-	+-	÷	+"	iput terriiriai riuribei (1–3)	It shifts to CARD mode.
INPUT SELECTION B	INPUT 1				1			+-	÷	-	NUTO	An input change is also included.
IN OT SELECTION B	IIVI OT T	l '		Ι'.	1'	1	_	+-	÷		/IDEO	An input change is also included.
						2		+-	+-		COMPONENT	
	INPUT 2	h	NI	<u>.</u>	2		-	+-	÷		AUTO	
	IINI OI Z	l '	IN	١,	-		t	+-	÷	_	/IDEO	
							+	+-	÷		COMPONENT	
	INPUT 5	-	NI	-	5			÷	÷		DIGITAL PC	
	IIVI OI 3	l '	IN	١,	1	6	_	┿	+-		NALOG PC	
						7		+-	÷	_	DIGITAL AV	
							÷	÷	÷		NALOG AV	
AV MODE SELECTION	1	_			ı D	-		+-	÷		Toggle)	Although it can abase now it is togeth anacetian in incide
AV MODE SELECTION		A	٧.	iv	יוו	-	+-	+-	÷		Toggle) STANDARD	Although it can choose now, it is toggle operation in inside.
							+	÷	+-		MOVIE	
						_		+-	÷			
						3		+-	÷		GAME JSER	
						4		+-	÷			
						5		+-	÷		DYNAMIC (Fixed)	
1/01 11/15			-	! .	+	6	-	+-	÷	_	DYNAMIC	
VOLUME	LUBOOITION				M	_	,	_:_	+-		/olume (0–60)	
POSITION	POSITION H-POSITION		Р		18	Ĥ	+	i.	÷		V mode. (±10)	
	V BOOLEJON		-	-	+	Ŧ.	+	1	+-		PC mode. (0–180)	
	V-POSITION	l۷	P	ι0	¦S		,		÷		V mode. (±20)	
_			+-	L	СК	_	-:-	_:_	÷		PC mode. (0–100)	
	CLOCK					_	,	*	-		Only PC mode. (0–180)	
	PHASE				E		1	*	+-		Only PC mode. (0-40)	
VIEWMODE		lw		D	E	_		+-	÷		Toggle) [AV]	Although it can choose now, it is toggle operation in inside.
						1			÷		ide Bar [AV]	
						2		-	+-		S.Stretch [AV]	
						3	÷	-	÷		Zoom [AV]	
						4			+-		Stretch [AV]	
						5	+-		-		lormal [PC]	
						6		4-	-		Yoom [PC]	
						7		- -	+-		Stretch [PC]	
			<u> </u>	_	1	8		4-	-		Oot by Dot [PC]	
MUTE		M	U	Т	Ε	-		4-	-		Toggle)	
						1		4-	-		On	
5 U 10 U				1	+	2		-	-	_	Off	
Dolby Virtual		Α	С	D	V	-		-	-		Toggle)	
						_	-	- -	-		On	
		_		1	1	2		4-	1-		Off	
AUDIO SELECTION					ΙA			<u>. _</u>	-		Toggle)	
SLEEP TIMER		0	F	T	М	0	1.	. _	1.	_)FF	
						1			1-		OFF TIMER – 30 MIN.	
						2		. _	1		OFF TIMER – 60 MIN.	
						3					OFF TIMER – 90 MIN.	
		L				4	1.				OFF TIMER – 120 MIN.	
CHANNEL	DIRECT	D	С	C	Н	*	1	*		_ [1	he channel number of TV	An input change is included if it is not TV display.
	CHANNEL									(1–125)	In Air, 2–69ch is effective.
	1				1		1		1	Ι,		In Cable, 1–125ch is effective.
	CH UP	С	Н	U	Р	X	1		1	. 1	he channel number of TV + 1	If it is not TV display, it will input-switch to TV.
	CH DOWN	-	_	_	W	-		T.	T			If it is not TV display, it will input-switch to TV.
ANT-A/B	•				S				T		Toggle)	Change toggle operation of tuner A/B.
CC					P			Τ	T		Toggle)	Toggle operation of a closed caption.
1	1		-			1				- 1 (- / ·	1 00 1 00 0 00 00 00 00 00 00 00 00 00 0

⊘NOTE

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.
 As long as that from which the parameter (×) in the table is a numerical value, it may write anything.

Specifications

Item				26" LIQUID CRYSTAL TELEVISION, Model: LC-26GA4U		
LCD panel				26" Advanced Super View & BLACK TFT LCD		
Number of	dots			3,147,264 dots (1366 × 768 × 3 dots)		
TV	TV-st	tandarc	d (CCIR)	American TV Standard NTSC System		
Function		eiving	VHF/UHF	VHF 2-13ch, UHF 14-69ch		
	Char	nnei	CATV	1-125ch		
	Audi	o multi	olex	BTSC System		
Brightness				450 cd/m ²		
Backlight				60,000 hours (at Backlight Standard position)		
Viewing an	gles			H: 170° V: 170°		
Audio amp	lifier			10W × 2		
Speakers				Ø 8cm 2pcs, Ø 2.5cm 2pcs		
Terminals	Rear	INPUT 1		AV in, COMPONENT in		
		INPUT 2		AV in, COMPONENT in		
		INPUT 3		S-VIDEO in, AV in		
		INPUT 4 INPUT 5 ANTENNA MONITOR OUTPUT SPEAKER		INPUT 4		HDMI in
				INPUT 5		Audio in, DVI-I in
				75 Ω Unbalance, F Type for VHF/UHF/CATV in $ imes$ 2, out $ imes$ 1		
				S-VIDEO out, AV out		
				4 Ω 10W (L/R)		
		CENT CHAN	ER INEL INPUT	RCA pin		
	Front	Headphones		Ø 3.5mm jack		
OSD langu	age			English/French/Spanish		
Power Rec	er Requirement			AC 120 V, 60 Hz (FOR NORTH AMERICA) AC 110-240 V, 50/60 Hz(FOR OTHERS)		
Power Con	Consumption			139W (0.4W Standby with AC 120 V)		
Weight				26.5 lbs./12 kg (Display only), 34.2 lbs./15.5 kg (with Display and speaker), 40.8 lbs./18.5 kg (with Display, speaker and stand)		
Accessorie	ccessories			Operation manual (\times 1), Remote control unit (\times 1), AC cord (\times 1), "AAA" size battery (\times 2), RF cable (\times 1)		

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.

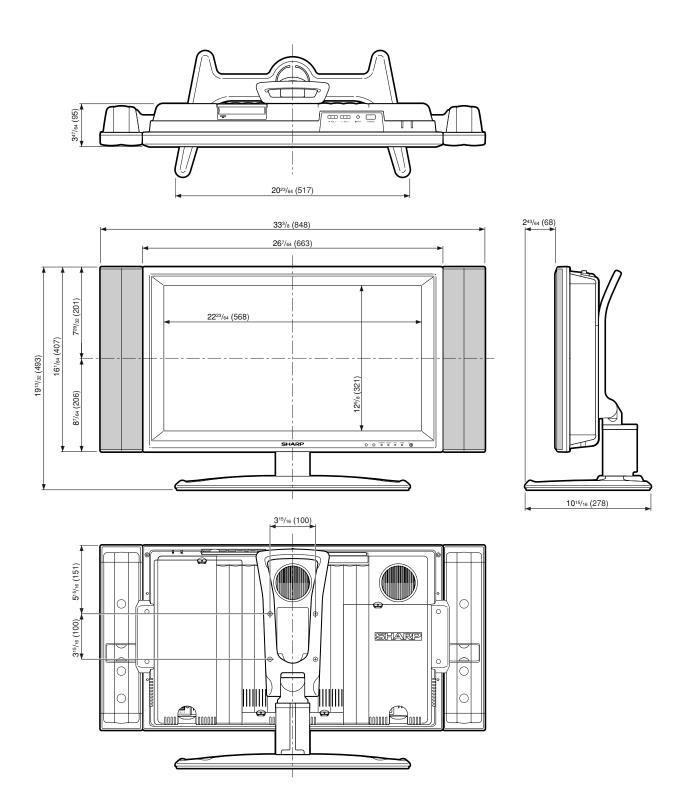
Optional accessory

The listed optional accessory is available for the TV. Please purchase it at your nearest shop.

 Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part name	Part number
1	AC cord	QACCZA036WJPZ

DisplayUnit: inch/(mm)



HOW TO SET THE FACTORY PRESETS Turn off the TV by pressing POWER. Press and hold down RESET and press POWER on the Display to turn 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 Display. 2 Press MENU. (Make sure the menu screen displays.) 3 Press ◀/▶ to select "Setup". 4 Press ▲/▼ to select "EZ Setup". 5 Press ENTER. NOTE • If the secret number setting screen displays, you need to enter your secret number. • If you forget your secret number, refer to HOW TO SET THE FACTORY PRESETS above.
The secret number is NOTE • As a precautionary measure, make a note of your secret number above, scissor it from this manual, and keep it in a familiar place.

Calling for Service

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

LIMITED WARRANTY

CONSUMER LIMITED WARRANTY

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

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

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

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

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

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

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

Model Specific Section

Your Product Model Number & Description: LC-26GA4U 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):

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: 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.sharpusa.com



SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

SHARP CORPORATION

SHARP

LIMITED WARRANTY

Consumer Electronics Products

Congratulations on your purchase!

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

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

This warranty shall not apply to:

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

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

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

WARRANTY PERIODS:

Audio Products Camcorder DVD Products Projector

LCD & Plasma Display TV

Microwave Oven
Television Products
VCR Products
Vacuum Cleaner

Parts & Labour (exceptions noted)

1 year 1 year 1 year

1 year (lamp 90 days)

1 year

1 year (magnetron component-4 additional years)
1 year (picture tube component-1 additional year)

1 year 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

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