LC-37G4U LC-32G4U TU-GA1U-S

LIQUID CRYSTAL TELEVISION ENGLISH

OPERATION MANUAL

18.4	RT/	١N٢	т.

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 and the AVC System.

Display	
Model No.:	
Serial No.:	
AVC System	
AVC System Model 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-37G4U (Display).

SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-32G4U (Display).

SHARP LIQUID CRYSTAL TELEVISION, MODEL TU-GA1U-S (AVC System).

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.

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 and 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.
- 19) Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20) Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21) Wall or ceiling mounting When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

IMPORTANT SAFETY INSTRUCTIONS

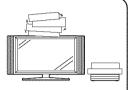
 Water and Moisture — Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.



Stand — Do not place the product on an unstable cart, stand, tripod or table. Placing the
product on an unstable base can cause the product to fall, resulting in serious personal
injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table
recommended by the manufacturer or sold with the product. When mounting the product on
a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware
recommended by the manufacturer.



Ventilation — The vents and other openings in the cabinet are designed for ventilation. Do
not cover or block these vents and openings since insufficient ventilation can cause
overheating and/or shorten the life of the product. Do not place the product on a bed, sofa,
rug or other similar surface, since they can block ventilation openings. This product is not
designed for built-in installation; do not place the product in an enclosed place such as a
bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are
followed.



• The Liquid Crystal panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the panel breaks.



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



• The Liquid Crystal panel is a very high technology product with 3,147,264 thin film transistors, giving you fine picture details.

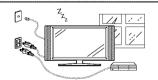
Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Precautions when transporting the Display

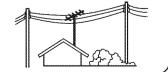
When transporting the Display, never carry it by holding onto the speaker. Be sure to always carry the Display by two people holding it with two hands—one hand on each side of the Display.



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



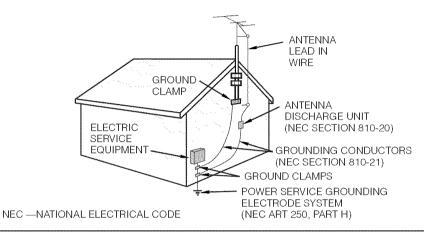
 Power Lines — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power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



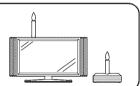
IMPORTANT SAFETY INSTRUCTIONS

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

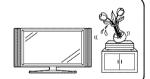
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



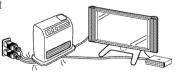
 To prevent fire, never place any type of candle or naked flames on the top or near the TV set.



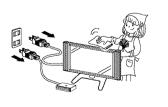
To prevent fire or shock hazard, do not expose this product to dripping or splashing.
 No objects filled with liquids, such as vases, should be placed on the product.



 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.



COPYRIGHT

It is the intent of Sharp that this product be used in full compliance with the copyright laws of the United States and that prior permission be obtained from copyright owners whenever necessary.

Contents

Trademarks XX Pre Record XX Probat Play XX Probat Play XX Propecting motion picture files XX Supplied accessories XX Supplied accessories XX Where to place the dystem XX String the Disce the dystem XX Setting the System XX Setting the System XX Setting the System XX Setting the AVC System with the stand XX Removing speakers XX Setting the AVC System with the stand XX Removing speakers XX Setting the Business of the System XX Setting the Display on the wall XX Cauditions regarding remote control unit XX Cauditions regarding remote control unit XX Cauditions regarding remote control unit XX Display XX AVC System XX XX Display XX AVC System XX XX Cauditions regarding remote control unit XX Remote control unit XX Cauditions regarding remote control unit XX Cauditions remote remote remote remote remote remote remote remote remote	IMPORTANT INFORMATION	XX	Rec. Mode	ХΧ
DEAR SHARP CUSTOMER WIRPORTANT SAFETY INSTRUCTIONS XX Contents XX Contents XX Supplied accessories XX Expegaration XX Attaching speakers XX Where to place the System XX Setting the System XX Removing speakers XX Removing speakers XX Removing the stand XX Setting the BVC System with the sland XX Removing the stand XX Setting the Display on the wall XX Inserting the batteries XX Using the remote control unit XX Display XX Display XX Display XX Displaying an external equipment image XX Connecting a VCR XX Conn				
MIMPORTANT SAFETY INSTRUCTIONS	DEAR SHARP CUSTOMER	XX	Repeat Play	ΧX
Supplied accessories YX Attaching speakers XX Attaching speakers XX Where to place the System Setting the System Setting the System with the stand XX Removing speakers XX Setting the AVC System with the stand XX Removing speakers XX Setting the Display on the wall XX Setting the Display on the wall XX Caulions regarding remote control unit XX Display XX Display XX AVC System XX Display XX AVC System XX AVC System XX Altennas XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Connecting a Display from HDMI equipment XX Display XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Cannesting a Displaying an image from HDMI equipment XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Cannesting a Displaying an image from HDMI equipment XX Cable converter/VCR connection XX Aution Quality Control XX AV MODE XX Esting MTS/SAP stereo mode XX AV MODE XX Esting MTS/SAP stereo mode XX AV input mode menu items XX Cable Connecting a potential speakers XX Displaying an image item at Speakers XX Displaying an image item and spea	IMPORTANT SAFETY INSTRUCTIONS	XX		
Supplied accessories YX Attaching speakers XX Attaching speakers XX Where to place the System Setting the System Setting the System with the stand XX Removing speakers XX Setting the AVC System with the stand XX Removing speakers XX Setting the Display on the wall XX Setting the Display on the wall XX Caulions regarding remote control unit XX Display XX Display XX AVC System XX Display XX AVC System XX AVC System XX Altennas XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Connecting a Display from HDMI equipment XX Display XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Cannesting a Displaying an image from HDMI equipment XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Cannesting a Displaying an image from HDMI equipment XX Cable converter/VCR connection XX Aution Quality Control XX AV MODE XX Esting MTS/SAP stereo mode XX AV MODE XX Esting MTS/SAP stereo mode XX AV input mode menu items XX Cable Connecting a potential speakers XX Displaying an image item at Speakers XX Displaying an image item and spea			Displaying a motion picture	XΧ
Attaching speakers Where to place the System Where to place the System Setting the System Setting the System XX Setting the System with the stand XX Removing speakers XX Removing speakers XX Removing the stand XX Setting the Display on the wall XX Setting the Display on the wall XX Cautions regarding remote control unit XX Part names XX Display ADISPLAY ADISPLAY AND System XX Display XX AND System XX AND System XX AND System XX Antennas XX Antenn	Supplied accessories	XX	Format	\times
Where to place the System XX Setting the System XX Setting the System XX Setting the System XX Setting the AVC System with the stand XX Removing speakers XX Connecting a DVD player XX Removing speakers XX Connecting a DVD player XX Removing the stand XX Connecting a game console or cameorder XX Inserting the bisplay on the wall XX Connecting a Digital TV STB XX Using the renote control unit XX Display XX Display XX Connecting a Digital TV STB XX Display XX Display XX Display XX Display XX Connecting a Digital TV STB XX AVC System XX Display XX Display XX AVC System XX XX Remote control unit XX Remote control unit XX Inserting the Connecting a PC XX AVC System XX XX Antennas XX Cable converter/VCR connection XX Antennas XX Cable converter/VCR connection XX Aution Quality Control XX Connecting a PC XX Avided Quality Control XX Aution Quality Control XX XX Aution Control XX XX Aut			Deleting a motion picture file	χ_{λ}
Setting the System with the stand XX Setting the AVC System with the stand XX Connecting a DVD player XX Removing speakers XX Connecting a game console XX Setting the Display on the wall XX Connecting a game console Or camcorder AvX Using the stand XX Using the platferies XX Using the remote control unit XX Countering a Digital TV STB XX Using the remote control unit XX Countering regarding remote control unit XX Countering regarding remote control unit XX Display XX Display XX Display XX Display XX Display XX Counceting a PC XX Antennas XX Connecting a PC XX Moving the picture on the screen XX Author Counceting systems XX Connecting systems XX Selecting speakers XX Author Counceting the AC cord XX Author Counceting Systems XX Input Select Input mode only) XX Input Input got the power XX Input Select Input mode only) XX Input Input got the power XX Input Select Input mode only) XX Input Input got the power XX Input Select Input mode only XX Setting MTS/SAP steree mode XX Input Select Input mode only XX Setting MTS/SAP steree mode XX Input Select Input mode only XX Displaying an insert real experiment PC input mode only XX Input Input got Input mode Input mode Input mode Input got In	Attaching speakers	XX	Deleting all motion picture files	χ_{λ}
Setting the AVC System with the stand XX Connecting a DVD player XX Removing speakers XX Connecting a QVCR XX Removing speakers XX Connecting a Quality Conn	Where to place the System	XX	Using external equipment	XX
Removing speakers Removing the stand Setting the Display on the wall Using the remote control unit Cautions regarding remote control unit XX Display XX Display XX Display XX Display XX Display XX AVC System XX Remote control unit XX Antennas XX Antennas XX Connecting a Digital TV STB XX Display XX Display XX Display XX Display XX Display XX AvC System XX Remote control unit XX Antennas XX Connecting a PC XY Displaying an image from HDMI Sequipment XX Connecting a PC XY Displaying an image from HDMI Sequipment XX Displaying an image from HDMI Sequipment XX Connecting a PC XY Displaying an image from HDMI Sequipment XX Displaying an image from HDMI Sequipment XX Displaying an image from HDMI Sequipment XX Connecting a PC XY Displaying an image from HDMI Sequipment XX Connecting a PC XY Displaying an image from HDMI Sequipment XX Connecting a PC XX Displaying an image from HDMI Sequipment XX Connecting a PC XX Displaying an image from HDMI Sequipment XX Connecting a PC XX Displaying an image from HDMI Sequipment XX Connecting a PC XX Displaying an image from HDMI Sequipment XX Connecting a PC XX Displaying an image image image from HDMI Sequipment XX Connecting a PC XX Displaying an image image image image setting XX Connecting a Yellow implement XX Connecting a PC XX Displaying an image im			Displaying an external equipment image	$\chi \chi$
Removing the stand XX connecting a game console Setting the Display on the wall XX connecting a Digital TV STB XX Using the remote control unit XX Connecting a Digital TV STB XX Connecting a PC XX XX AVG System XX XX AVG System XX XX AVG System XX XX Avd System XX XX Antennas XX Cable converter/VCR connection XX XX Antennas XX Cable converter/VCR connection XX Connecting a PC XX XX Antennas XX Cable converter/VCR connection XX Connecting the AC cord XX Ituring on the power XX Ituring of the power XX Ituring of the power XX Intring Of the power				
Setting the Display on the wall XX			Connecting a VCR	XX
Inserting the batteries			Connecting a game console	
Using the remote control unit XX Cautions regarding remote control unit XX Display APAT names XX Display XX AVC System XX Remote control unit XX Antennas XX Antennas XX Antennas XX Antennas XX Cable converter/VCR connection XX Antennas XX Connecting a PC Vseful adjustment settlings XX Antennas XX Condecting a settlings XX Antennas XX Condecting the AC cond XX Connecting external speakers XX Connecting external speakers XX Connecting the AC cond XX Auto Sync. adjustment (PC input mode only) XX Iruning on the power XX Iruning of the power XX Initial setup XX Simple button operations for changing channels XX Simple button operations for changing volume/sound XX Setting MTS/SAP stereo mode XX Basic adjustment settlings XX AV input mode menu items XX AV input mode menu items XX Connecting external speakers XX Audio Ouality Control XX Auto Sync. adjustment (PC input mode only) XX Iruning of the power XX Input Select XX Input Select XX Input Select XX Input Select XX Input signal (for PC input mode) XX Basic adjustment settlings XX XX Digital Noise Reduction XX Audio only XX Province channel setting XX Consecting XX Consecting XX Consecting XX Consecting XX Digital Noise Reduction XX Aution only XX Province channel setting XX Consecting XX Consectin	Setting the Display on the wall	XX		
Cautions regarding remote control unit XX Display XX Display XX AVC System XX Remote control unit XX Remote control unit XX Watching TV XX Antennas XX Cable converter/CR connection XX Cable converter/CR connection XX Cable converter/CR connection XX Cable converter/CR connection XX Connecting the AC cord XX Turning of the power XX Iturning off the power XX Injury Simple button operations AV Simple button operations AV for changing channels XX Setting MTS/SAP stereo mode XX AV input mode menu items XX Channel setting XX Correcting XX	Inserting the batteries	XX		
Part names				ХХ
Display AVC System AVC Matching TV XX Antennas XX Antennas XX Canhecting external speakers XX Cable converter/VCR connection XX Ado Quality Control XX Connecting systemal speakers XX Connecting systemal systems XX Auto Sync. adjustment (PC input mode only) XX Input Select XX AV MODE XX AV MODE XX AV MODE XX AV MODE XX Setting MTS/SAP stere mode XX XX Input signal (for PC input mode) XX			Displaying an image from HDIVII	\/\
AVC System Remote control unit Remote control unit Remote control unit XX Remote control unit XX Remote control unit XX Antennas XX Antennas XX Antennas XX Cable converter/VCR connection XX Cable converter/VCR connection XX Cable converter/VCR connection XX Cable converter/VCR connection XX Auto Quality Control XX Connecting the AC cord XX Auto Sync. adjustment (PC input mode only) XI Turning on the power XX Turning of the power XX Input label XX Simple button operations XX Simple button operations XX Simple button operations XX Sort changing volume/sound XX Setting MTS/SAP stereo mode XX AV input mode for 4:3 Programs XX XX AV input mode menu items XX AV input mode menu items XX AV input mode menu items XX Channel settup XX Channel setting XX Channel setting XX Channel setting XX Connecting external speakers XX Avi input mode menu items XX Cutput Select XX Cutput Select XX Closed caption XX Closed caption XX Connecting external speakers XX Avi input mode only) XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX Channel setting XX Cutput Select XX Cutput Select XX Cutput Select XX Closed caption XX Caption Size XX Connecting external speakers XX Closed caption XX Connecting external speakers XX Audio Quality Control XX Input mode (for PC input mode only) XX Connecting external speakers XX Cutput Select XX Cutput Select XX Connecting external speakers XX Connecting e			equipment	XX
Remote control unit Watching TV Antennas XX Antennas XX Antennas XX Antennas XX Antennas XX Cable converter/VCR connection XX Connecting external speakers XX Connecting the AC cord XX Auto Sync. adjustment (PC input mode only) XX Image position (AV input mode only) XX Connecting external speakers XX Auto Sync. adjustment (PC input mode only) XX Input speace Input label XX Input speace Input label XX Input speace XX Input label XX XX XX XX XX XX XX XX XX	Display	XX		
Watching TV XX Moving the picture on the screen XX Antennas XX Connecting external speakers XX Cable converter/VCR connection XX Selecting speakers XX Connecting the AC cord XX Audio Quality Control XX Turning on the power XX Audio Sync. adjustment (PC input mode only) XX Turning off the power XX Input Select XX Initial setup XX Input Iabel XX Simple button operations for changing volume/sound XX XX AV MODE XX Setting MTS/SAP stereo mode XX View mode for 4:3 Programs XX Yiew mode for PC input mode) XX Sasic adjustment settings XX XX View mode for PC input mode) XX Sasic adjustment settings XX XX View mode for PC input mode) XX Sasting MTS/SAP stereo mode XX View mode for PC input mode) XX Sasting MTS/SAP stereo mode XX Juput signal (for PC input mode) XX Sasting MTS/SAP stereo mo	AVC System	XX		
Antennas XX Connecting external speakers XX Outdoor antenna connection XX Selecting speakers XX Outdoor antenna connection XX Audio Quality Control XX Input Select Input mode only) XX Input select Input mode only XX AV MODE XX Input signal (for PC input mode) XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX AV Input mode menu items XX Audio only XX AV Input mode menu items XX Audio only XX AUDIO XX AV Input mode menu items XX Audio only XX AUDIO XX Ez setup XX Quality Select XX Quality Select XX Channel setting XX Quality Select XX Quality Select XX Channel setting XX Coption Size XX Coption XX Control Control XX Audio XX Foreground Color XX Background Color XX Background Color XX Audio XX Au			Moving the picture on the serson	
Cable converter/VCR connection XX Selecting speakers XX Outdoor antenna connection XX Audio Quality Control XX Connecting the AC cord XX Audio Sync. adjustment (PC input mode only) XX Turning of the power XX Fine Sync. adjustment (PC input mode only) XX Turning of the power XX Input Select XX Input Select XX Input label XX Simple button operations XX AV MODE XX Simple button operations XX AV MODE XX Simple button operations XX AV MODE XX Setting MTS/SAP stereo mode XX Setting MTS/SAP stereo mode XX Digital Noise Reduction XX Dig				
Outdoor antenna connection XX Audio Quality Control XX Turning on the power XX Turning on the power XX Input Select XX Input S				
Connecting the AC cord XX Fine Sync. adjustment (PC input mode only) X Turning off the power XX Fine Sync. adjustment (PC input mode only) X Input Select XX Input Iabel XX Iabel			Audio Quality Control	- // - //
Turning on the power Turning off the power Turning off the power Initial setup Simple button operations for changing channels Simple button operations for changing volume/sound Setting MTS/SAP stereo mode XX Basic adjustment settings XX AV MODE XX AV MODE XX Simple button operations for changing volume/sound XX Setting MTS/SAP stereo mode XX Basic adjustment settings XX AV input mode for PC input mode) XX AV input mode menu items XX AV input mode items XX AV input mode items XX AV input select XX AV input select XX AV input select XX Color management system) XX Color temperature XX Black XX B			Auto Sync, adjustment (PC input mode only)	XX
Turning off the power Initial setup XX Input label				
Initial setup				
Simple button operations for changing channels XX Simple button operations for changing volume/sound XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX AV input mode menu items XX AV input mode menu items XX AV input mode menu items XX Audio only XX AV input mode menu items XX Audio only XX AV input mode menu items XX Audio only XX AV input mode menu items XX Audio only XX AV input mode menu items XX Audio only XX AV input mode menu items XX Audio only XX AUDIG INFORMATION INFORM				
for changing channels XX Simple button operations View mode for 4:3 Programs XX for changing volume/sound XX View mode (for PC input mode) XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX AV input mode menu items XX Digital Noise Reduction XX Audio only XX AU input mode menu items XX Audio only XX Appendix XX Appendix XX Appendix XX Audio only XX Appendix Appendix XX Appendix XX Appendix XX Appendix Appendix Appendix Appendix XX Appendix XX Appendix XX Appendix Appendix Appendix XX Appendix Appendix Appendix Appendix XX Appendix				
Simple button operations for changing volume/sound XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX AV input mode menu items XX Audio only XX EZ setup XX Guiput mode menu items XX Quiput Select XX Sez setup XX Sez setup XX Seep timer XX Seep timer XX Candonel setting XX Caption Size XX Caption Size XX Caption Size XX Foreground Color XX EZ setup XX Foreground Color XX Caption Size XX Caption Size XX Caption Size XX Caption Size XX Secret number setting XX Foreground Opacity XX Secret number setting XX Secret number setting Size XX Secret number setting for parental control (AV input mode only) XX Power control for AV source XX Power control for PC source XX Secret number setting the temporarily release the V-CHIP BLOCK XX Power control for PC source XX Recording a still image XX Setting Slide Show XX Secret number setting the temporarily released XX Setting Slide Show XX Setting Slide Show XX Setting Slide Show XX Secret number setting the temporarily released XX Setting Slide Show XX Setting Slide Show XX Setting Slide Show XX Setting Still picture files XX Dieleting at still image XX Dieleting AX Dieleting AX Dieleting AX Diel	for changing channels	XX		
for changing volume/sound XX View mode (for PC input mode) XX Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX AV input mode menu items XX Digital Noise Reduction XX AV input mode menu items XX Output Select XX Channel setup XX Channel setup XX Sleep timer XX Sleep timer XX Language setting XX Copton Size XX Foreground Color XX Copton Size XX Foreground Color XX Secret number setting XX Secret number setting XX Secret number setting Size XX Sound adjustment XX Secret number setting for parental control (AV input mode only) XX Power control Size XX Secret number setting for parental Control Siz				
Setting MTS/SAP stereo mode XX Input signal (for PC input mode) XX Basic adjustment settings XX AV input mode menu items XX Audio only XX PC input mode menu items XX Audio only XX AU Output Select XX EZ setup XX Sleep timer XX Sleep timer XX Sleep timer XX Sleep timer XX Caption Size XX Caption Size XX Caption Size XX Pover cantrol for AV source XX Sleep timer XX Foreground Color XX Foreground Color XX Foreground Color XX Sleep timer XX Sleep timer XX Sleep timer XX Caption Size XX Caption Size XX Sleep timer XX Foreground Color XX Foreground Color XX Foreground Color XX Sleep timer X		XX	View mode (for PC input mode)	ΧX
AV input mode menu items			Input signal (for PC input mode)	XX
PC input mode menu items				
EZ setup XX Quick shoot XX Channel setup XX Sleep timer XX Sleep timer XX Language setting XX Closed caption XX Language setting XX Caption Size XX OPC setting XX Font Style XX Foreground Color XX Picture adjustments XX Foreground Color XX Color Management System) XX Foreground Color XX Color temperature XX Background Opacity XX Secret number setting for parental control Film mode (3:2 pull-down) XX Secret number setting for parental control (AV input mode only) XX I/P Setting XX Parental control (setting V-CHIP level) XX Sound adjustment XX Power control XX Reactivating the temporarily released The V-CHIP BLOCK XX Power control for PC source XX Protecting a still image XX Audio Select XX Secret number setting for parental control (setting V-CHIP level) XX Twin picture functions XX Twin picture functions XX Troubleshooting XX Presetting remote control function XX Presetting still image XX Appendix XX Troubleshooting XX Appendix XX Secret number subjustive functions XX Presetting for parental control (setting V-CHIP BLOCK XX Center Channel Input XX XX Twin picture functions XX Appendix XX Troubleshooting XX Appendix XX Appendix XX Protecting still picture files XX Deleting a still image XX Deleting a still				
Channel setup Favorite channel setting Language setting XX CoPC setting XX Picture adjustments XX Fon Style XX Foreground Color XX Black Color temperature XX Black 3D-Y/C XX Monochrome XX Sound adjustment XX Sound adjustment XX Sound adjustment XX Secret number setting for parental control Film mode (3:2 pull-down) XX Sound adjustment XX Power control Power control Power control for AV source Power control for PC source XX Card Setup mode menu items XX Setting Slide Show XX Audio Select XX Protecting still image XX Displaying a still image XX Audio Select XX Protecting still picture files XX Displaying a still image file				
Favorite channel setting XX Language setting XX Caption Size XX OPC setting XX Font Style XX Foreground Color XX Foreground Color XX Background Colo				
Language setting XX Caption Size XX OPC setting XX Font Style XX Font Style XX Picture adjustments XX Foreground Color XX C.M.S. (Color Management System) XX Foreground Opacity XX Color temperature XX Background Color XX Black XX Background Opacity XX ASD-Y/C XX Character Edge XX Monochrome XX Secret number setting for parental control Film mode (3:2 pull-down) XX Parental control (setting V-CHIP level) XX Sound adjustment XX Parental control (setting V-CHIP level) XX Power control XX Reactivating the temporarily release The V-CHIP BLOCK XX Power control for AV source XX Power control for PC source XX Card Setup mode menu items XX Displaying a still image XX Protecting still picture files XX Deleting a still image file XX Dimensional drawings XX Dimensional drawin				
OPC setting Picture adjustments C.M.S. (Color Management System) Color temperature XX Black Yound XX Character Edge XX Character Edge XX Black XX Character Edge XX Black XX Parental control (setting V-CHIP level) XX XX How to temporarily release the V-CHIP BLOCK XX Aleactivating the temporarily released the V-CHIP BLOCK XX Center Channel Input XX Center Channel Input XX Center Channel Input XX Center Channel Input XX XX Center Channel Input XX XX Center Channel Input XX XX XX Center Channel Input XX XX XX XX XX XX XX XX XX				
Picture adjustments XX Foreground Color XX C.M.S. (Color Management System) XX Foreground Opacity XX Color temperature XX Background Color XX Black XX Background Opacity XX SD-Y/C XX Character Edge XX Monochrome XX Secret number setting for parental control Film mode (3:2 pull-down) XX (AV input mode only) XX I/P Setting XX Parental control (setting V-CHIP level) XX Sound adjustment XX How to temporarily release Dolby virtual XX Power control XX Reactivating the temporarily released Yewer control for AV source XX Power control for PC source XX Center Channel Input XX Important notes on using memory card XX Recording a still image XX Presetting solven from XX Presetting remote control function XX Recording a still image XX Program XX Setting Slide Show XX Program XX Specifications XX Specificat				
C.M.S. (Color Management System) XX Color temperature XX Black XX Background Color XX Black XX Background Opacity XX 3D-Y/C XX Character Edge XX Monochrome XX Secret number setting for parental control Film mode (3:2 pull-down) XX (AV input mode only) XX I/P Setting XX Parental control (setting V-CHIP level) XX Sound adjustment XX How to temporarily release The V-CHIP BLOCK XX Power control For AV source XX Power control for AV source XX Power control for PC source XX Center Channel Input XX WIMPORTANT AUS APPENDING Still image XX Appendix XX Presetting Silde Show XX Appendix XX Protecting Still picture files XX Protecting a still image file XX Dimensional drawings XX Dimensional drawings XX Dimensional drawings XX Dimensional drawings				
Color temperature XX Background Color XX Black XX Black XX Background Opacity XX 3D-Y/C XX Character Edge XX Monochrome XX Secret number setting for parental control Film mode (3:2 pull-down) XX (AV input mode only) XX I/P Setting XX Parental control (setting V-CHIP level) XX Sound adjustment XX How to temporarily release Dolby virtual XX How to temporarily release YX Power control for AV source XX Reactivating the temporarily released The V-CHIP BLOCK YX Power control for PC source XX Center Channel Input XX Card Setup mode menu items XX Presetting remote control function XX Recording a still image XX Displaying a still image XX Pregram XX Presetting remote control function XX Appendix XX Program XX Program XX Program XX Specifications XX			Foreground Opacity	
Black XX Background Opacity XX 3D-Y/C XX Character Edge XX Monochrome XX Secret number setting for parental control (Film mode (3:2 pull-down) XX (AV input mode only) XX Parental control (setting V-CHIP level) XX Sound adjustment XX How to temporarily release Dolby virtual XX Power control XX Reactivating the temporarily released The V-CHIP BLOCK XX Power control for AV source XX Power control for PC source XX Card Setup mode menu items XX Recording a still image XX Displaying a still image XX Setting Slide Show XX Audio Select XX Protecting still picture files XX Dieleting a still image file XX Dimensional drawings XX XX XX Dimensional drawings XX				
3D-Y/C XX Character Edge XX Monochrome XX Secret number setting for parental control (AV input mode only) XX Parental control (setting V-CHIP level) XX Sound adjustment XX How to temporarily release Dolby virtual XX Power control for AV source XX Power control for PC source XX Power control for PC source XX Card Setup mode menu items XX Displaying a still image XX Displaying a still image XX Setting Slide Show XX Audio Select XX Protecting still picture files XX Dimensional drawings XX XX XX Dimensional drawings XX XX XX Dimensional drawings XX				
MonochromeXXSecret number setting for parental controlFilm mode (3:2 pull-down)XX(AV input mode only)XXI/P SettingXXParental control (setting V-CHIP level)XXSound adjustmentXXHow to temporarily releaseDolby virtualXXHow to temporarily releasePower controlXXReactivating the temporarily releasedPower control for AV sourceXXCenter Channel InputXXUsing memory cardXXOther viewing optionsXXImportant notes on using memory cardXXTwin picture functionsXXCard Setup mode menu itemsXXPresetting remote control functionXXRecording a still imageXXAppendixXXDisplaying a still imageXXFroubleshootingXXSetting Slide ShowXXPC compatibility chartXXAudio SelectXXSpecificationsXXProtecting still picture filesXXOptional accessoryXXDeleting a still image fileXXDimensional drawingsXX				
Film mode (3:2 pull-down) I/P Setting Sound adjustment Dolby virtual Power control Power control for AV source Power control for PC source Wising memory card Card Setup mode menu items Recording a still image Displaying a still image Setting Slide Show Audio Select Protecting still picture files XX Ava Ava Ava Ava Ava Ava Ava				, ,,
I/P SettingXXParental control (setting V-CHIP level)XXSound adjustmentXXHow to temporarily releaseDolby virtualXXthe V-CHIP BLOCKXXPower controlXXReactivating the temporarily releasedPower control for AV sourceXXthe V-CHIP BLOCKXXPower control for PC sourceXXCenter Channel InputXXUsing memory cardXXOther viewing optionsXXCard Setup mode menu itemsXXPresetting remote control functionXXRecording a still imageXXAppendixXXDisplaying a still imageXXTroubleshootingXXSetting Slide ShowXXPC compatibility chartXXMy ProgramXXRS-232C port specificationsXXAudio SelectXXSpecificationsXXProtecting still picture filesXXOptional accessoryXXDeleting a still image fileXXDimensional drawingsXX				ΧX
Sound adjustment XX Dolby virtual XX The V-CHIP BLOCK XX Power control XX Reactivating the temporarily released XX The V-CHIP BLOCK XX Center Channel Input XX Card Setup mode menu items XX Recording a still image XX Displaying a still image XX Setting Slide Show XX Audio Select XX Avaivable XX Deleting a still image file XX Dimensional drawings XX Dimensional drawings XX Dimensional drawings XX Dimensional drawings XX The V-CHIP BLOCK XX Center Channel Input XX Twin picture functions XX Twin picture functions XX Twin picture functions XX Presetting remote control function XX Appendix XX Septimage XX Troubleshooting XX Setting Slide Show XX PC compatibility chart XX Specifications X				
Dolby virtual XX the V-CHIP BLOCK XX Power control XX Reactivating the temporarily released				
Power control XX Reactivating the temporarily released Power control for AV source XX the V-CHIP BLOCK XX Power control for PC source XX Center Channel Input XX Using memory card XX Other viewing options XX Important notes on using memory card XX Twin picture functions XX Recording a still image XX Presetting remote control function XX Displaying a still image XX Appendix XX Setting Slide Show XX PC compatibility chart XX My Program XX RS-232C port specifications XX Audio Select XX Specifications XX Protecting still picture files XX Optional accessory XX Deleting a still image file XX Dimensional drawings				ΧX
Power control for AV source XX Power control for PC source XX Using memory card XX Important notes on using memory card XX Card Setup mode menu items XX Recording a still image XX Displaying a still image XX Setting Slide Show XX My Program XX Audio Select XX Protecting a still image XX Audio Select XX Protecting a still image XX Displaying a still image XX Displaying a still image XX Displaying Audio Select XX Displaying			Reactivating the temporarily released	
Using memory cardXXOther viewing optionsXXImportant notes on using memory cardXXTwin picture functionsXXCard Setup mode menu itemsXXPresetting remote control functionXXRecording a still imageXXAppendixXXDisplaying a still imageXXTroubleshootingXXSetting Slide ShowXXPC compatibility chartXXMy ProgramXXRS-232C port specificationsXXAudio SelectXXSpecificationsXXProtecting still picture filesXXOptional accessoryXXDeleting a still image fileXXDimensional drawingsXX			the V-CHIP BLOCK	ΧX
Important notes on using memory card XX Card Setup mode menu items XX Recording a still image XX Displaying a still image XX Setting Slide Show XX My Program XX Audio Select XX Protecting still picture files XX Deleting a still image Image XX Displaying a still image XX Setting Slide Show XX Displaying a still image XX Displaying a still image XX Setting Slide Show XX Specifications XX Specifications XX Specifications XX Specifications XX Dimensional drawings XX	Power control for PC source	XX		
Card Setup mode menu itemsXXPresetting remote control functionXXRecording a still imageXXAppendixXXDisplaying a still imageXXTroubleshootingXXSetting Slide ShowXXPC compatibility chartXXMy ProgramXXRS-232C port specificationsXXAudio SelectXXSpecificationsXXProtecting still picture filesXXOptional accessoryXXDeleting a still image fileXXDimensional drawingsXX				
Recording a still image XX Appendix XX Displaying a still image XX Troubleshooting XX Setting Slide Show XX PC compatibility chart XX My Program XX RS-232C port specifications XX Audio Select XX Specifications XX Protecting still picture files XX Optional accessory XX Deleting a still image file XX Dimensional drawings XX				
Displaying a still image XX Setting Slide Show XX My Program XX Audio Select XX Protecting still picture files XX Deleting a still image file XX Dimensional drawings XX Troubleshooting XX PC compatibility chart XX RS-232C port specifications XX Specifications XX Optional accessory XX				
Setting Slide Show XX PC compatibility chart XX My Program XX RS-232C port specifications XX Audio Select XX Specifications XX Protecting still picture files XX Optional accessory XX Deleting a still image file XX Dimensional drawings XX				
My ProgramXXRS-232C port specificationsXXAudio SelectXXSpecificationsXXProtecting still picture filesXXOptional accessoryXXDeleting a still image fileXXDimensional drawingsXX	Displaying a still image	XX		
Audio Select XX Specifications XX Protecting still picture files XX Optional accessory XX Deleting a still image file XX Dimensional drawings XX				
Protecting still picture files XX Optional accessory XX Deleting a still image file XX Dimensional drawings				
Deleting a still image fileXX Dimensional drawings				
			Dimonorula diawingo	<i>N</i> .N

Supplied accessories

Make sure the following accessories are provided with the product.

AVC System: TU-GA1U-S

AVC System: 10-GA10-5		
Remote control unit (×1)	"AAA" size battery (×2)	System cable (×1)
RRMCGA263WJSA Page XX	Page XX	QCNW-B856WJZZ Page XX
Stand unit (for AVC System) (×1)	AC cord (×1)	RF cable (×1)
GDAI-A104WJSB		
PSPAHA314WJZZ	QACCDA019WJPZ Page XX	QCNW-A342WJZZ Pages XX and XX
GLEGGA013WJZZ	Operation manual (×1)	
XBPSN50P16JS0	LC-37G4U LC-32G4U TU-GA1U-S	
Stand (\times 1) Stand spacer (\times 4) Stand cushion (\times 4) Stand screw (\times 2)	Aquos	
Page XX	TINS-B116WJZZ	

X No⊤≡

- Always use the AC cord supplied with the Liquid Crystal Television and the one supplied with the AVC System for each respective unit.
- 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.

Supplied accessories

Make sure the following accessories are provided with the product.

Display: LC-37G4U

AC cord (×1)	Cable clamp (× 1)	Bracket unit (× 1)
QACCDA019WJPZ Page XX	LHLDW0110CEZZ Page XX	CHLDZA331WJ02 Page XX
Speaker	unit (× 1)	
Left speaker DSP-ZA053UJ03 Page XX	Right speaker DSP-ZA053UJ04 Page XX	

Display: LC-32G4U

AC cord (×1)	Cable clamp (×1)
QACCDA019WJPZ Page XX	LHLDW0110CEZZ Page XX

Preparation

Attaching speakers

LC-37G4U

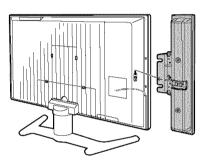
Peel off the tape holding the ends of the cables, and move cables towards behind the display.

5

Fasten the speaker cable with the holder.

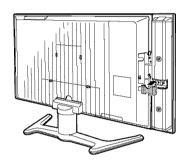
• Connect the ends of the cables to the speaker terminals as shown in the illustration.

2



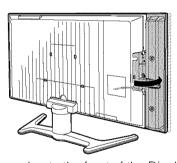
Hook the \Diamond hole of the speaker to the screw of the Display.

6

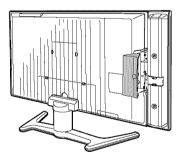


Fix the speaker terminal cover.

3

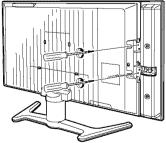


Turn the speaker to the front of the Display (direction of the arrow) and fit it to the screw hole. 7



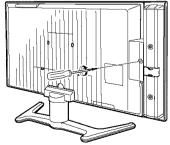
Align the nub of the bracket into the groove and fasten it.

4



Fasten the screws.

8



Fasten the bracket with the screw.

NOTE

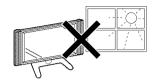
- Perform the same steps for right speaker.
- To remove the speakers, perform the steps in reverse order.

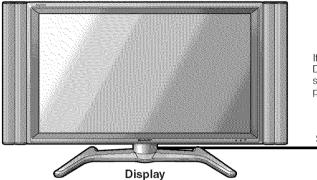
Where to place the System

"System" means the Display and AVC System. First select the location where to place the System.

Selecting the location of the System

- Select a place with no direct sunlight and good ventilation.
- The Display and the AVC System are connected by the system cable. (See page XX for details.)





If you want to keep a longer distance between the Display and AVC System, please purchase the optional system cable AN-07SC2 (about 23 feet/7 meters). (See page XX.)

System cable AVC System

2 Setting the System in place Handling the Display

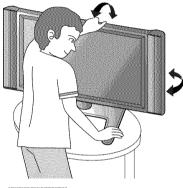
CAUTION

- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.
- Keep enough space above and behind the Display.
- The Display weighs about XX kg (LC-37G4U) and XX kg (LC-32G4U). Move it with two or more people.
- When you move the Display, hold the portion of the Display, not the speaker.

Handling the AVC System

A CAUTION

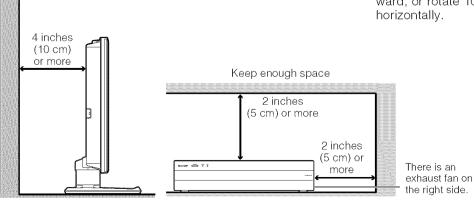
- Do not put a VCR or other device on the AVC System.
- Keep enough space above and on the sides of the AVC System.
- Do not block the ventilation openings on the top and left side, and the exhaust fan on the right side.
- Do not spread a thick cloth beneath the AVC System, or cover it with one, as this can cause overheating and result in malfunction.



O'II GAUTION

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 2 degrees forward or 6 degrees backward, or rotate 10 degrees horizontally.



Setting the System

After putting the Display and the AVC System in place, connect the system cables and AC cords. Use the cable clamps for bundling the cables.

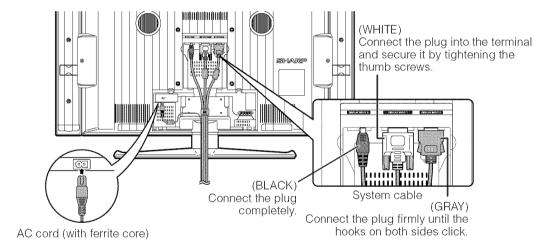
Removing the terminal cover

Display (rear view)

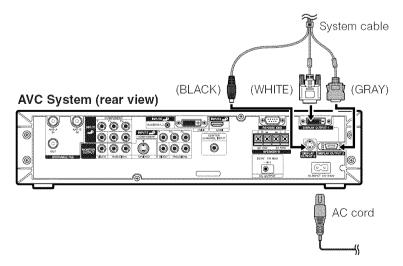
Press the two hooks toward the center of the Display and remove the cover toward you.

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

2 Connecting the system cable and the AC cord to the Display



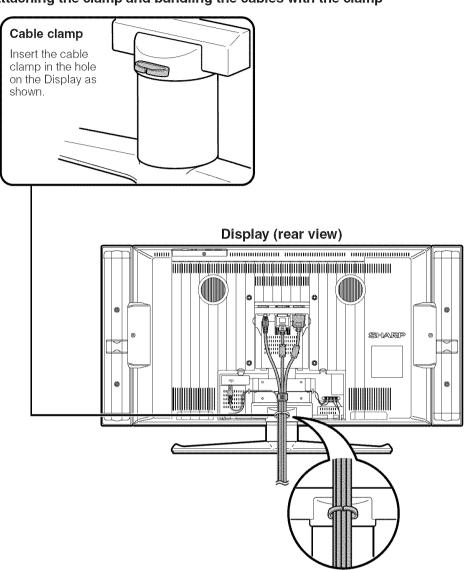
3 Connecting the system cable and the AC cord to the AVC System



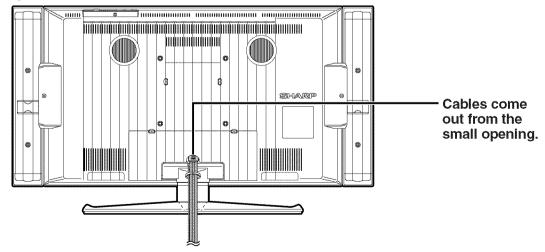
(MCAUTION)

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

4 Attaching the clamp and bundling the cables with the clamp



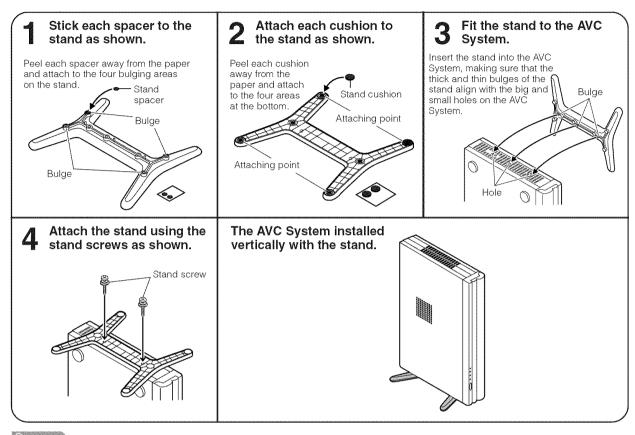
5 Closing the terminal cover



Setting the AVC System with the stand

How to install the AVC System vertically using the stand unit.

• Use the supplied stand unit for installing the AVC System vertically in an upright position.

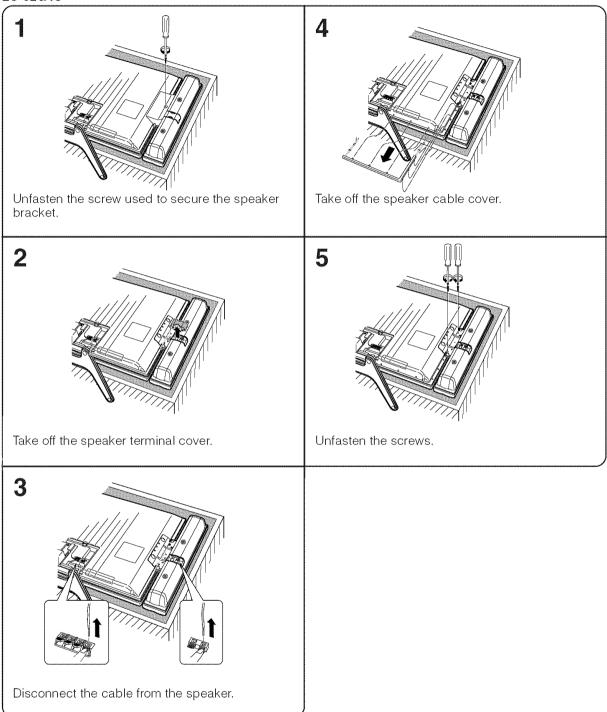


SMOTE

• When mounting the AVC System vertically, always use the supplied stand. Be careful not to block vent holes when standing up directly on the floor or a flat surface as this can result in equipment failure.

Removing speakers

LC-32G4U



(U) CAUTTON

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

Note

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

Removing the stand

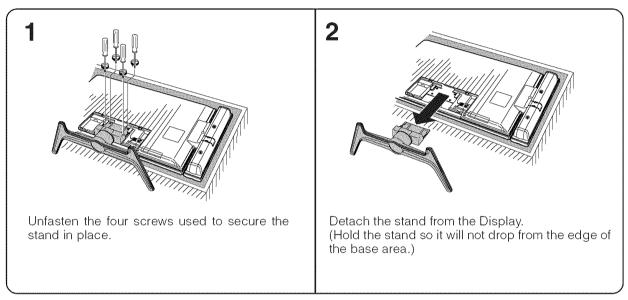
Before detaching (or attaching) stand, unplug the AC cord from the AC input and the system cable from the Display.

CAUTION

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

Before attaching/detaching stand

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



Micaution

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

NOTE

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

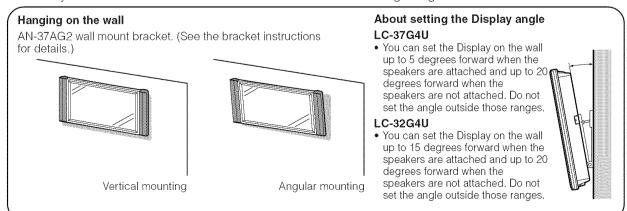
Setting the Display on the wall

CAUTION

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

Using an optional bracket to mount the Display

- You can ask a qualified service personnel about using an optional AN-37AG2 bracket to mount the Display 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 Liquid Crystal Television functions, replace the batteries in the remote control unit.

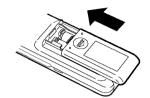
Open the battery cover.



- 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.



DICAUTION

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

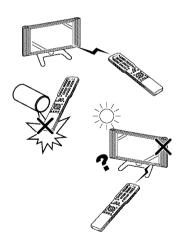
- Place the batteries with their terminals corresponding to the (+) and (-) indications.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause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

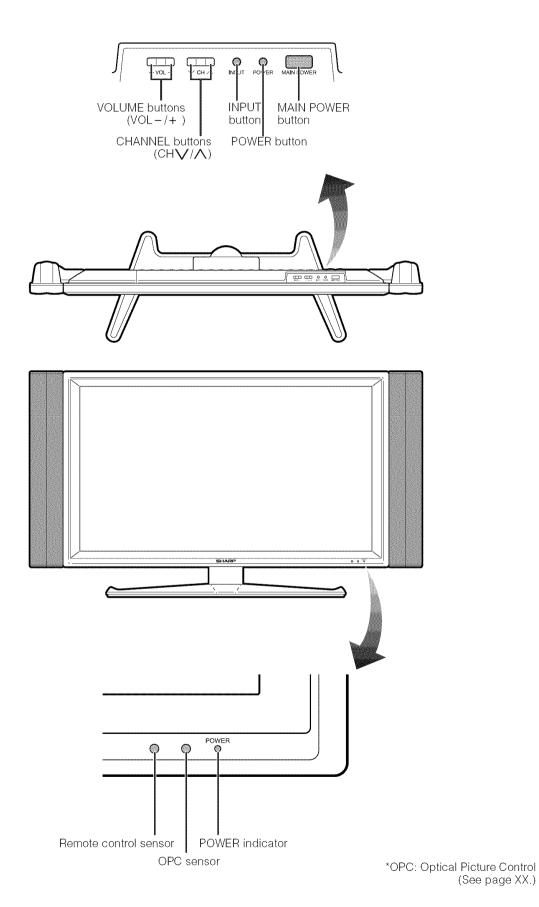
Use the remote control unit by pointing it towards the remote control sensor on the Display. Objects between the remote control unit and the remote control sensor may prevent proper operation.

Cautions regarding remote control unit

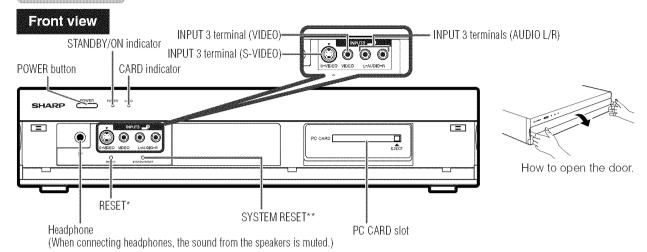
- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit.
- The remote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



Display



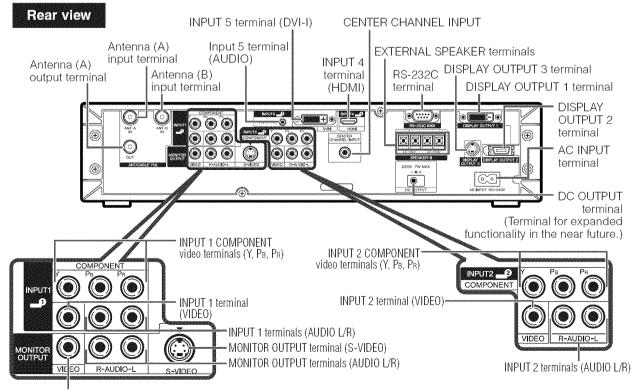
AVC System



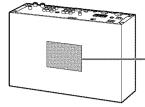
- * If the AVC System is switched on but it does not appear to be operating correctly, it may need resetting. In this case, press **RESET**, shown in the diagram, lightly with the end of a ballpoint pen or other pointed object. This will reset the System as shown below.
 - AV MODE resets to STANDARD
 - 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
- ** The product may not function when receiving strong noise (e.g. excessive static electricity, power surge or abnormal voltage due to lightning) or if operations are performed incorrectly. In such case, press SYSTEM RESET and try operating again.

NOTE

- Pressing **RESET** will not work if the System is in standby mode (indicator lights red).
- Pressing RESET will not delete channel preset or secret number. See page XX for clearing the secret number when you
 know it. See page XX for initializing to the factory preset values when you forget your secret number.

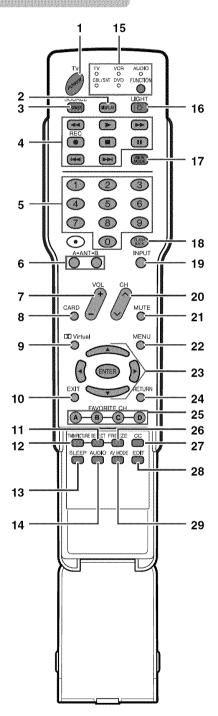


Bottom view



The name plate is attached on the bottom of the AVC System. Confirm it if necessary.

Remote control unit



- NOTE
- When using the remote control unit, point it at the Liquid Crystal Television.

- 1 TV POWER: Switch the Liquid Crystal Television power on or off. (See page XX.)
- 2 **DISPLAY:** Display the channel information.
- 3 SOURSE POWER: Turns the power of the external equipment on and off.
- 4 External equipment operational buttons: Operate the external equipment.
- 5 0 9: Set the channel.
- **6 ANT-A/B:** Select between ANT-A and B to watch broadcasts via the two tuners.
- 7 VOL +/-: Set the volume. (See page XX.)
- 8 CARD: Switch to card mode.
- 9 DI Virtual: Select Virtual Dolby Surround settings. (See page XX.)
- 10 EXIT: Turn off the menu screen.
- 11 SELECT: Select the active screen. (See page XX.)
- 12 TWIN PICTURE: Set the twin picture mode. Press again to return to normal screen. (See page XX)
- 13 SLEEP: Set the sleep timer. (See page XX.)
- 14 AUDIO: Select the MTS/SAP. (See page XX.)
- 15 FUNCTION: Switches the remote control for TV, VCR, AUDIO, CBL/SAT and DVD operation. Indicator lights up for the current mode. (See page XX to XX 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 XX and XX.)
- **18 FLASHBACK:** Return to the previous channel or input external mode. (See page XX.)
- 19 INPUT: Select a Liquid Crystal Television input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, Card) (See pages XX–XX and XX.)
- 20 CH ∧/V: Select the channel.
- 21 MUTE: Mute the sound. (See page XX.)
- 22 MENU: Display the menu screen.
- 23 ▲/▼/◄/▶: 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 XX for details.) You can preset up to 32 favorite channels in advance.

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 XX.)
- **27 CC:** Display captions during closed-caption source. (See page XX.)
- 28 EDIT: Register favorite channel.
- 29 AV MODE: Select an audio or video setting. (See page XX.) (AV mode: STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC. PC mode: STANDARD, USER.)

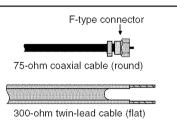
Watching TV

Simple operations for watching a TV program

Antennas

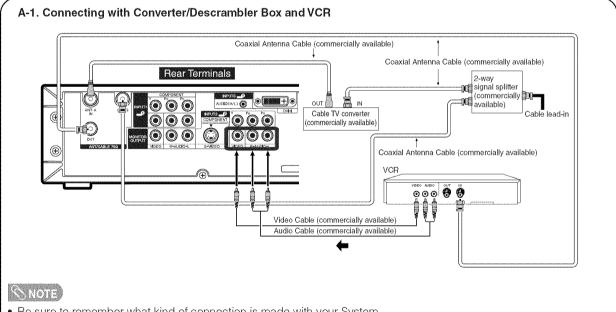
To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the AVC System.

- The antenna and the cable converter cannot be connected at the same time
 - 1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (Commercially available).
 - 2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300/75-ohm adapter (Commercially available).



Cable converter/VCR connection

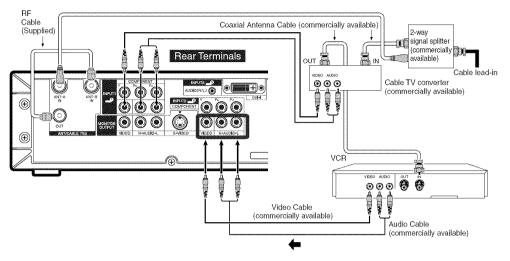
- · Be sure to connect the antenna or the cable converter as follows. Signal reception may fail if improperly connected.
- Be sure to remember what kind of connection is made with your System.
- The connection type will determine whether to select "Air" or "Cable" for both ANT-A and B when configuring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



- Be sure to remember what kind of connection is made with your System.
- 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.

Cable converter/VCR connection (continued)

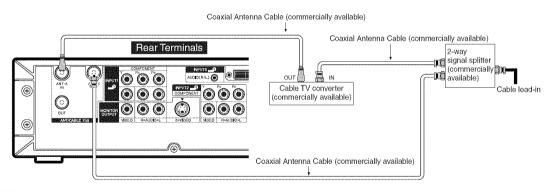
A-2. Connecting with cable converter using AUX terminals for audio and video output. (If your cable TV converter has both RF OUTPUT and AUX terminals, it is recommended to connect it as shown in example A-1.)



☼ NOTE

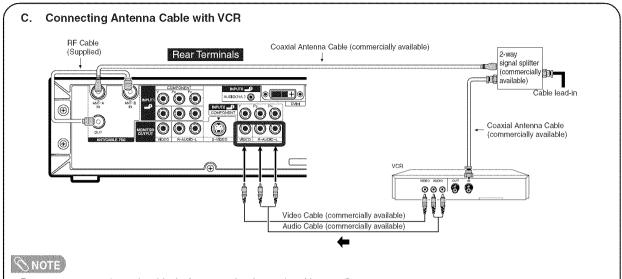
- Be sure to remember what kind of connection is made with your System.
- Shown here is the preferred method of connecting a VCR and CATV Converter to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position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



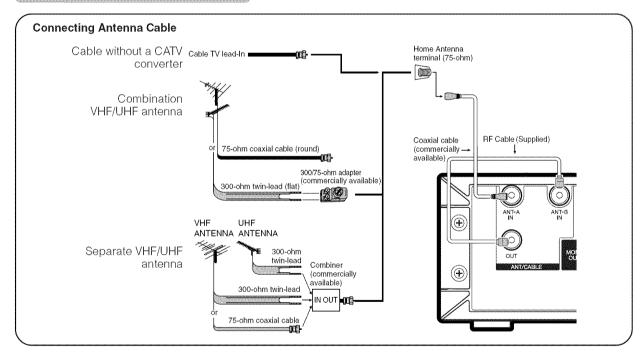
Note

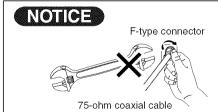
- Be sure to remember what kind of connection is made with your System.
- Switching between Antenna-A and Antenna-B is possible by pressing the ANT-A/B button on the remote control.
- A good color picture depends on a good TV signal. So does good multi-channel sound. Ask your dealer for advice on how 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 System.
- 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.

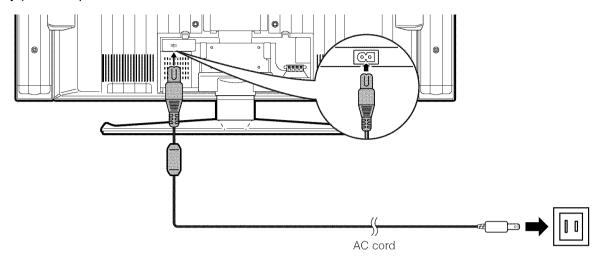
When connecting the RF cable to the TV set, do not tighten F-type connector with tools.

If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.)

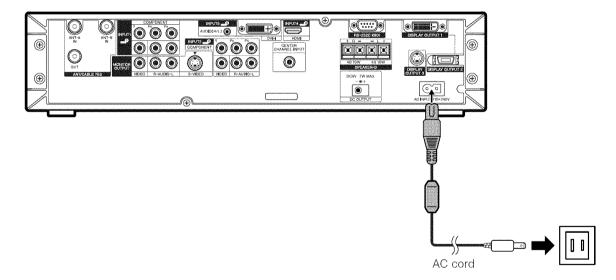
Connecting the AC cord

Connect the AC cords after all component connections have been completed.

Display (rear view)

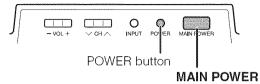


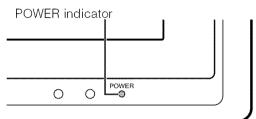
AVC System (rear view)



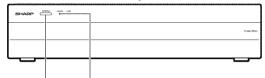
- Always turn off the main power of the Display when connecting the AC cords.
 Disconnect the AC cords from the AC outlet, Display and AVC System when the System is not going to be used for a long period of time.

Display

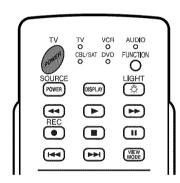




AVC System



POWER STANDBY/ON indicator



Turning on the power

Make sure that the system cable is connected before turning on the power.



Press MAIN POWER on the Display.

• The POWER indicator on the Display lights up red.



Press **POWER** on the AVC System.

- The System turns the power on.
- The POWER indicator on the Display lights up green and the STANDBY/ON indicator on the AVC System lights up green.

 If the STANDBY/ON indicator on the AVC System and the POWER
- indicator on the Display still light up red, press TV POWER on the remote control unit or POWER on the AVC System to turn the System on.

S Note:

• The initial setup starts when the System powers on for the first time. If the System has been turned on before, the EZ setup will not be invoked. See page 27 to try EZ setup from the Setup menu.

Turning off the power

Press TV POWER on the remote control unit or POWER button on the Display.

- The System enters standby mode and the image on the screen disappears.
 Both the STANDBY/ON indicator on the AVC System and the POWER indicator on the Display change from green to red.

Press MAIN POWER on the Display.

• The POWER indicator on the Display gradually turns off.



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

Display status indicator

Off	Power off
Red	The System is in standby mode.
Green	The System is on.

AVC System status indicator

Off	Power off
Red	The System is in standby mode.
Green	The System is on or only the AVC System is on.

NOTE:

Check if the system cable is connected properly when display indicator flashes red.

Initial setup

When you turn on the System 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.

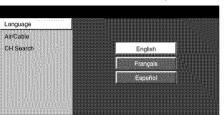
- 1. Insert the batteries into the remote control unit. (See page XX.)
- 2. Connect the antenna cable to the AVC System. (See pages XX to XX.)
- 3. Plug in the AC cord to the AC outlet. (See page XX.)

Language setting

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



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



Antenna setting

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

2

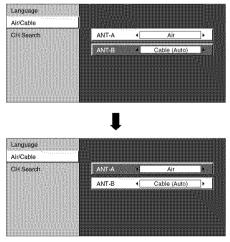
Press **◄/▶** to select "Air" or "Cable" for ANT-A, then press **▲/▼** to move down.

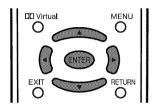
Press ◀/▶ to select "Air" or "Cable" for ANT-B

Press **ENTER** to enter the setting.

- This operation makes the System 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 system. Select Auto when you do not know which one to select.

Example





Channel search

Channel auto search makes the System 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. Air/Cable CH Search CH Memory Yes (No 100 Example OH Search [20] ANT-A [25] CH Search ANT-B Cable [25] Found [20] ANT-A Air

NOTE

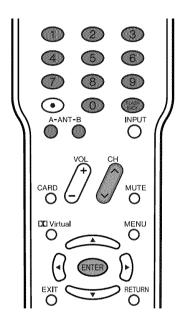
- Make sure what kind of connection is made with your System when selecting "Air" or "Cable" for both ANT-A and B.
- If no channel is found, make sure what kind of connection is made with your System and try EZ setup again (see page XX).
- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.

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.



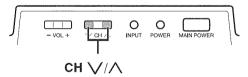
■ Using CH / / / on the remote control unit

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

NOTE

 CH V/∧ on the Display operates the same as CH∧/ V on the remote control unit.

Display



■ Changing channels with CH // on the remote control unit or CH // on the Display

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

 $2\rightarrow 3\rightarrow ...\rightarrow 68\rightarrow 69\rightarrow 2\rightarrow 3...$

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

 $3\rightarrow2\rightarrow69\rightarrow68\rightarrow...\rightarrow3\rightarrow2...$

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

 $3 \rightarrow 2 \rightarrow 1 \rightarrow 125 \rightarrow ... \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow ...$

■ 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.

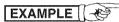
Note

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

■ Using 0 – 9 on the remote control unit

Select the channels directly by pressing buttons 0 to 9

 The System 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.

C 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.

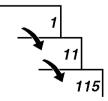


Press the 1 button again.

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



Press the 5 button.





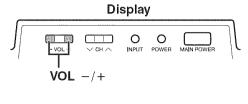
Press **ENTER** to enter the setting.

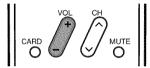
 Channel selection will be made if there is no operations for 3 seconds.

Simple button operations for changing volume/sound

■ Changing the volume

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





■ Using VOL +/- on the remote control unit

- 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

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

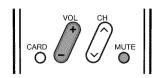
* When "Output Select" is set to "Variable", the indicator on the screen changes as shown below.



• See page XX for details on the audio out function.

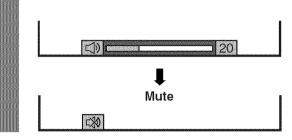
■ Using MUTE on the remote control unit

Mutes the current sound output.



Press **MUTE**. • "ជ¾" has be

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



NOTE

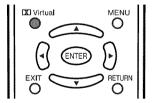
- Within 30 minutes of pressing **MUTE**, mute can be canceled by using one of the methods below.
 - Pressing VOL —/+ on the Display or VOL +/-, MTS or MUTE on the remote control unit can also cancel the mute
- Mute will be canceled after 30 minutes have passed. However, the System will not suddenly output a loud sound as the volume level is set to 0 automatically.



Within 30 minutes, press **MUTE** again to cancel the mute.

- Before 30 minutes, the volume level returns to the previous setting.
- After 30 minutes, increase the volume level by pressing VOL +.

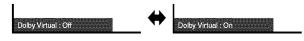
■ Using 🔯 Virtual on the remote control unit



DI Virtual produces Dolby virtual effect from the speakers. Each time you press **DI** Virtual, 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.



SHOTE

 You can have the same settings by choosing "Dolby Virtual" on the menu items. (See page XX.)

Setting MTS/SAP stereo mode

The System 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 System 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).

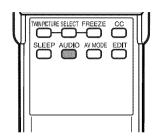
SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

If stereo sound is difficult to hear.

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

NOTE

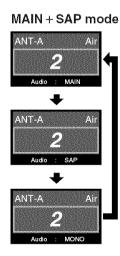
- Once "MONO" mode is selected, the sound remains mone even if the System receives a stereo broadcast. You must switch the mode back to "STEREO" if you want to hear stereo sound again.
- Selecting MTS while in the input mode does not change the type of sound. In this case, sound is determined by the video source.

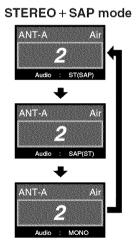


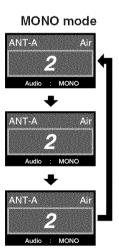
Each time you press **AUDIO**, MTS toggles as shown below.

Examples: when receiving MTS and SAP

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







Basic adjustment settings

AV input mode menu items

List of AV menu items to help you with operations



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

PC input mode menu items

List of PC menu items to help you with operations



OPC Pa	ge XX
Backlight Pag	ge XX
Contrast Pag	ge XX
Brightness Pag	ge XX
Red Pag	ge XX
Green Pag	ge XX
Blue Pa	ge XX
Advanced	
C.M.S Pa	ge XX



Treble	Page	XX
Bass	Page	XX
Balance	Page	XX
Dolby Virtual	Page	XX



No Signal Off		Page	XX
No Operation	Off	Page	XX



EZ Setup	Page XX
CH Setup	Pages XX-XX
Speaker	Page XX
Input Label	Page XX
Input Signal	Page XX
Parental CTRL	Pages XX-XX
Position	Page XX
Picture Flip	Page XX
Language	Page XX

Option

Audio Only	Page	XX
Digital Noise Reduction	Page	XX
Input Select	Page	XX
Output Select	Page	XX
Quick Shoot	Page	XX
Center Channel Input	Page	XX
Caption Setup	Page	XX



Treble	Page	XX
Bass		
Balance	Page	XX
Dolby Virtual	Page	XX



Power	[.] Management		Page XX	(
-------	-------------------------	--	---------	---

Setup

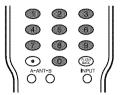
Speaker	Page	XX
Input Signal	Page	XX
Auto Sync	Page	XX
Fine Sync	Page	XX
Picture Flip	Page	XX
Language	Page	XX

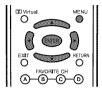
Option

Audio Only	Page	XX
Output Select	Page	XX
Quick Shoot	Page	XX

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.

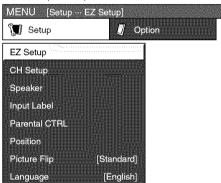


Press **◄/▶** to select "Setup".

3

Press \blacktriangle/Ψ 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 ▲/▼ 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 System when selecting "Air" or "Cable" for both ANT-A and B.



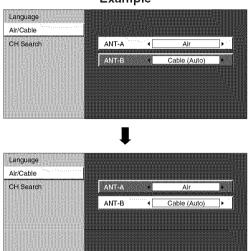
Press **◄/▶** to select "Air" or "Cable" for ANT-A, then press **▲/▼** to move down.

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

Press ENTER to enter the setting.

- This operation makes the System 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 system. Select Auto when you do not know which one to select.

Example



Channel search

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

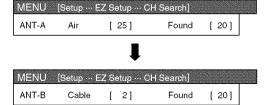


Press **◄/▶** to select "Yes" for ANT-A, then press **▲/▼** to move down.

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



Searching TV channels Example

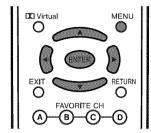


NOTE

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

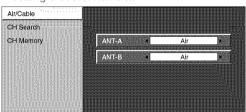
2

Press **◄/▶** to select "Setup".

3

Press \triangle/V to select "CH Setup", and then press **ENTER**.

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



4

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

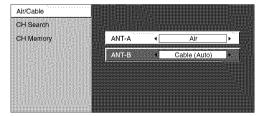


Press $\blacktriangleleft/\triangleright$ to select "Air" or "Cable" for ANT-A, then press $\blacktriangle/\blacktriangledown$ to move down.

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

Press ENTER to enter the setting.

Example



CONOTE

- Make sure what kind of connection is made with your System 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 system.
 Select Auto when you do not know which one to select.

Channel search

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



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



Press **◄/▶** to select "Setup".



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

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

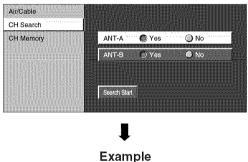


Press ▲/▼ to select "CH Search", and then press **ENTER**.

Press or press or press or press or Start",

Press $\blacktriangleleft/\triangleright$ 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**.

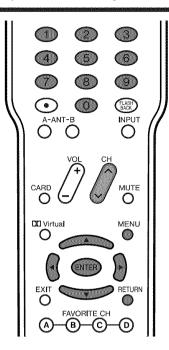


					•
	1.000	ra			
ı	V	[petrib	157.42 DE	Helen	- Search for ANT-A
ı					
ı	ANT-A	Air	[21	
ı			٠	-,	

NOTE

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

Basic adjustment settings





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 ▲/▼.)

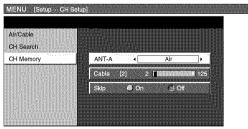
None

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

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 XX for setting a secret number.
- Press ▲/▼ to select "CH Memory", and then press ENTER.

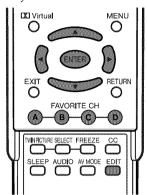
Example



- **5** Press **◄/▶** to select ANT-A or B.
- 6 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.

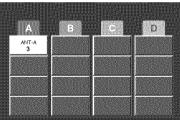


- Select the channel you want to register as a favorite channel.
- 2 Press EDIT.





Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select the position in the area, and then press **ENTER** to register.



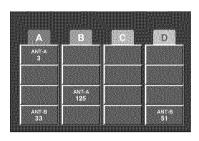
Delete favorite channel

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.

A B C D D ANT-A 18 ANT-A 18 51

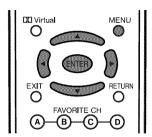


CTE

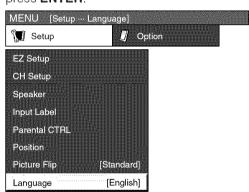
• You can delete all the favorite channels by selecting "All Data Clear" at step 2 in Delete favorite channel.

Language setting

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



- 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.

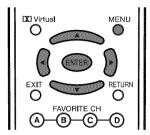
English

Français

Español

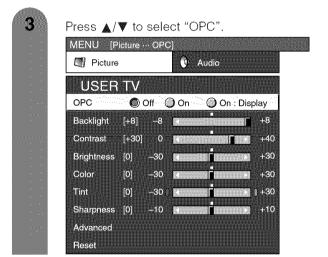
OPC setting

Automatically adjusts the brightness of the screen.

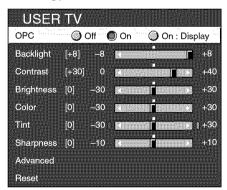


AV input mode

- Press **MENU** and the MENU screen displays.
- Press **∢**/**▶** to select "Picture".



Press **√/** to select "On".



SHOTE

 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.

PC input mode

1

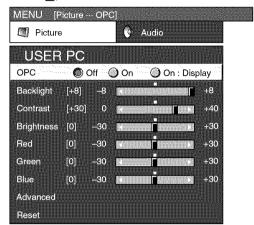
Press **MENU** and the MENU screen displays.



Press **◄/▶** to select "Picture".

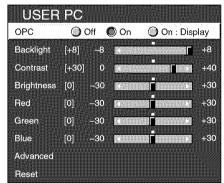


Press ▲/▼ to select "OPC".





Press **◄/>** to select "On".



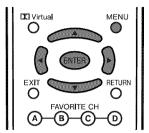
Selected item	Description	
Off	No adjustment	
On	Automatically adjusts	
On: Display	Displays the OPC effect on the screen while adjusting the brightness of the screen.	



• When set to "On: Dispaly", OPC effect displays on the screen while OPC is adjusting the screen brightness.

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 item.

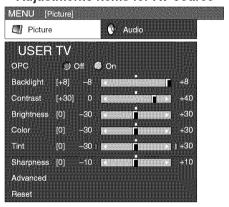


Press ◀/▶ to adjust the item to your desired position.

NOTE

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

Adjustments items for AV source

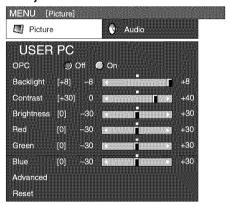


Selected item	∢ button	▶button
Backlight The screen dims		The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For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

SHOTE

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 XX to XX.

Adjustments items for PC source



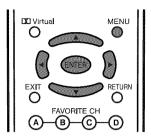
Selected item	∢ button	▶ button
Backlight	The screen dims	The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

NOTE

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

C.M.S. (Color Management System)

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

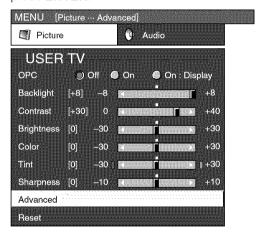


AV input mode

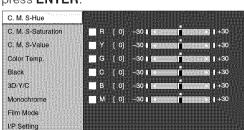
Press **MENU** and the MENU screen displays.

2 Press **◄/▶** to select "Picture".

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

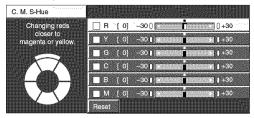


Press ▲/▼ to select "C.M.S-Hue", and then press **ENTER**.



5

Press $\blacktriangle/\blacktriangledown$ to select a specific adjustment item. Press $\blacktriangleleft/\blacktriangleright$ 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.
- To perform "C.M.S-Saturation" or "C.M.S-Value", select the one you like to adjust in step 4 above and follow the step 5 to adjust the items.

PC input mode

1

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

2

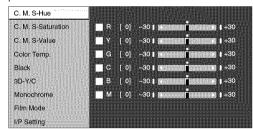
Press **◄/▶** to select "Picture".

3

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

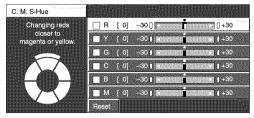
4

Press ▲/▼ to select "C.M.S-Hue", and then press **ENTER**.



5

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

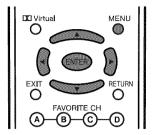


I CONTE

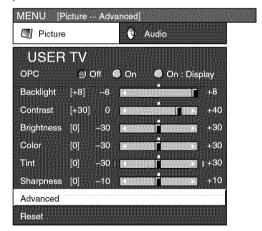
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.
- To perform "C.M.S-Saturation" or "C.M.S-Value", select the one you like to adjust in step 4 above and follow the step 5 to adjust the items.

Color temperature

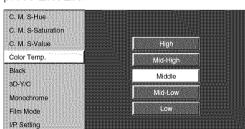
Adjusts the color temperature to give a better white balance.



- Press **MENU** and the MENU screen displays.
- Press **∢**/**▶** to select "Picture".
- Press ▲/▼ to select "Advanced", and then press ENTER.



Press ▲/▼ 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
High Mid-High Middle	_
Middle	1
Mid-Low	Ť
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.



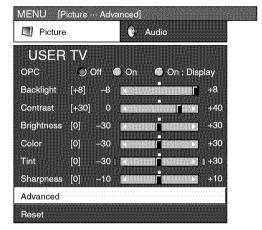
Press **MENU** and the MENU screen displays.



Press **◄/▶** to select "Picture".

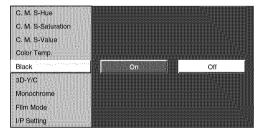


Press ▲/▼ to select "Advanced", and then press **ENTER**.



4

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



5

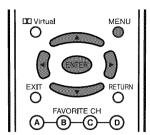
Press **◄/▶** to select "On", and then press **ENTER**.

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

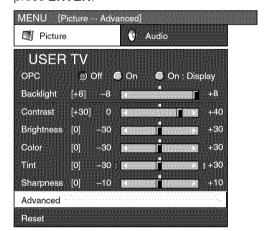
Basic adjustment settings

3D-Y/C

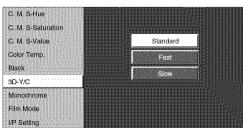
Provides high quality images with minimal dot crawl and cross color noise.



- Press **MENU** and the MENU screen displays.
- 2 Press **◄/▶** to select "Picture".
- Press ▲/▼ to select "Advanced", and then press **ENTER**.



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



Press ▲/▼ 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 selectable when receiving images from DVI or component video terminals.

Monochrome

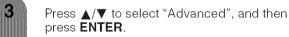
For viewing a video in monochrome.

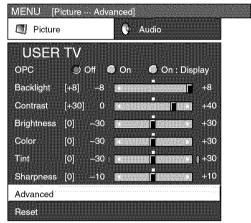


Press **MENU** and the MENU screen displays.

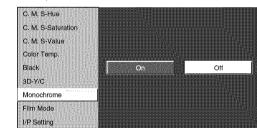


Press **◄/▶** to select "Picture".





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

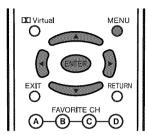


Press **◄/▶** to select "On", and then press **ENTER**.

Selected item	Description	
Off	Normal color	
On	For viewing in monochrome	

Film mode (3:2 pull-down)

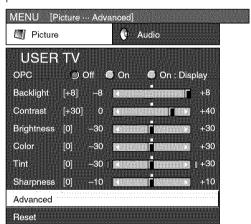
Automatically detects a film-based source (originally encoded at 24 frames/second), analyzes it then recreates each still film frame for high-definition picture quality.



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

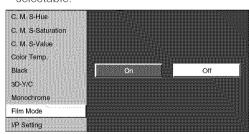
Press **◄/▶** to select "Picture".

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



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

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

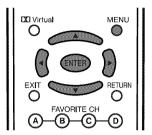


Press **◄/▶** to select "On", and then press **ENTER**.

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

I/P Setting

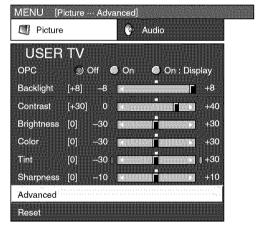
Adjusting the image and input signal can give you a more beautiful picture.



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

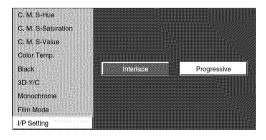
Press **◄/▶** to select "Picture".

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



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

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



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

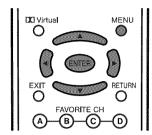
Note

- 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.



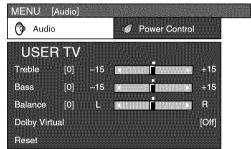
Sound adjustment

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



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





Press ▲/▼ to select a specific adjustment item.

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

Selected item		▶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:

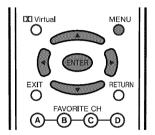
- Audio menu is grayed out when Output Select is set to "Variable" or when headphones are in use.
- Balance and Audio Quality Control are grayed out when Dolby Virtual is set to "On".
- For resetting all adjustment items to factory preset values, press ▲/▼ to select "Reset", press OK, press ◀/▶ to select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

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.

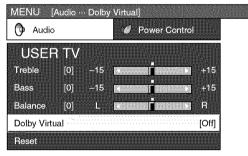
VIRTUAL DOLBY SURROUND retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.



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



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



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

N NOTE:

- You can choose Dolby Virtual by pressing Da Virtual on the remote control unit. See page XX 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.

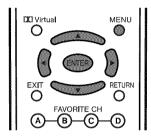
Power control

Power control setting allows you to save energy.

Power control for AV source

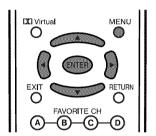
No signal off

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



No operation off

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



- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Power Control".





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

S NOTE

- "Disable" is factory preset value.
- When a TV program finishes, and the AVC System receives signal input, this function may not operate.



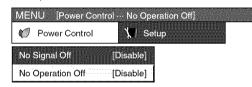
Press **MENU** and the MENU screen displays.



Press ✓/ to select "Power Control".

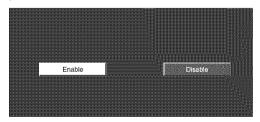


Press ▲/▼ to select "No Operation Off", and then press **ENTER**.





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



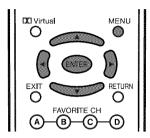
• Five minutes before the power shuts down, remaining time displays every minute.

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.



Press MENU and the MENU screen displays.



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

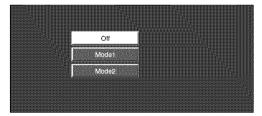


Press $\blacktriangle/\blacktriangledown$ to select "Power Management", and then press **ENTER**.





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



Selected item	Description	
Off	No power management Factory 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 System stays off. The System turns on again by pressing POWER button on the Display or TV POWER on the remote control unit. (See page XX). 	
Mode2	 If no signal inputs for 8 seconds, the power shuts down. When you start using the PC and the signal inputs again, the System turns on. 	

Using memory card

Important notes on using memory cards

- We will not be liable for misuse of the LCD TV set, any troubles during use, or other problems, or any damages arising out of the use of the LCD TV set, except for the cases for which we are liable by statute.
- If you or other people misuse the LCD TV set, or the LCD 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.

Copyriaht

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)
1014 14 14 14 14 19 14 14 14 14 14 14 14 14 14 14 14 14 14	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

	Dioturo pizo	Picture size Memory card		ry card
	Ficture size	32MB	256MB	
Still picture	640×480	Approx. 328 pictures	Approx. 1000 pictures	

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

Motion pictures

	Picture size	Recording mode	Memory card capacity	
			256MB	5GB
	320×240	SP	Approx. 10 min.	Approx. 4h 20 min.
Recordable time	320×240	LP	Approx. 30 min.	Approx. 10h 30 min.
	320×240	EP	Approx. 1h.	Approx. 25h 40 min.

- Recordable time may vary depending on receiving condition of the LCD 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.
- In the FIT mode, pictures will be recorded in SP, LP or EP mode, in accordance with the remaining space in the memory card.

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.)

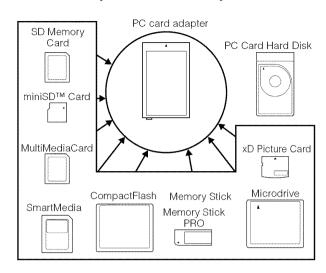
Memory card name	Storage capacity
SD Memory Card	128 MB or less
mini SD™ Card	32 MB or less
CompactFlash	512 MB or less
MultiMediaCard	64 MB or less
SmartMedia	128 MB or less
Memory Stick	128 MB or less
Memory Stick PRO	1 GB or less
Microdrive	2 GB or less
xD Picture Card	128 MB or less
PC Card Hard 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.

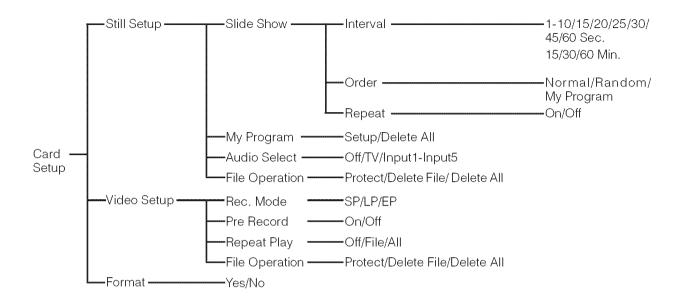


Notes on using memory cards and PC card adapter

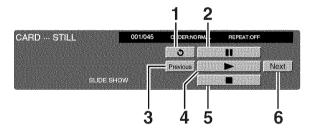
Please note the following when using memory cards and PC card adapters to avoid corruption of data or malfunction of the LCD TV set.

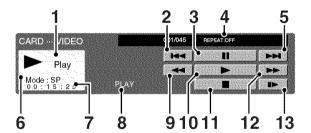
- If you use memory cards other than those shown above, recording or playing back pictures are not guaranteed.
- Some PC card adapters have restrictions of memory card capacity. Refer to the relevant operation manual for such restrictions.
- Some pictures which have been created, modified, or copied on your PC may not be played back.
- Please be sure to turn off the LCD TV set when you insert or remove a PC card adapter.
- 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 LCD 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





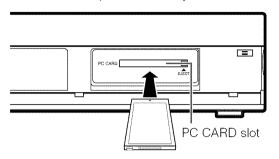
Motion picture operation panel

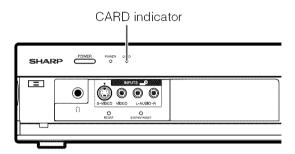
- 1 Rotate the image
- 2 Pause
- 3 Go to previous image
- 4 Start slide show
- 5 Stop slide show
- 6 Go to next image

- 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

Inserting a PC card adapter

- Insert a memory card to a PC card adapter beforehand. (See page XX.)
- Insert the PC adapter card slowly.





• CARD indicator lights up green when the card is inserted.

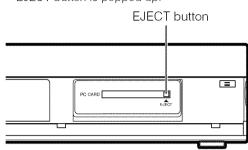
Ejecting the card

• Make sure the card indicator lights up green.



Press **EJECT** button.

• EJECT button is popped up.





Press **EJECT** button again.

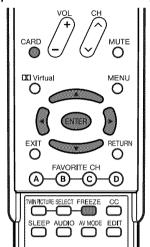
- When "Card is not inserted" is displayed, eject the PC card adapter, and then insert the PC card adapter slowly all the way to the end.
- When over a thousand files are in a card, it takes several minutes to load. (Appox. 5 minutes.)

 • Even 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 damege the card.

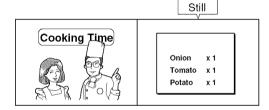
Recording a still image

You can record a still image on the card.

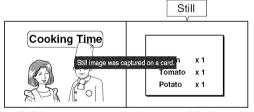




Press FREEZE.

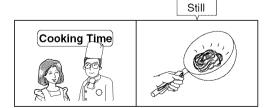


Press REC.



"Still image was captured on a card." displays.

3 Press **ENTER** to update the still image.



NOTE

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

- ① DTV broadcasting ② COMPONENT income COMPONENT input
- RGB input
 Copyguarded signal

⑤ DVI-I input

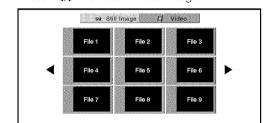
Displaying a still image



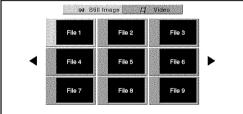
Press CARD and the card mode screen displays.



Press **◄/▶** to select "Still Image".



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.
- To enlarge the still image while displaying, press VIEW MODE.

Displaying slide show



Repeat steps 1 and 2 in Displaying a still image above.



Press CARD.

• The operation panel displays.





Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select \blacktriangleright , and then press ENTER.

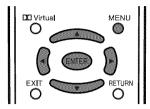
- · Slide show starts.
- Operate slide show with the operation panel appears on the screen.

NOTE:

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

Setting Slide Show

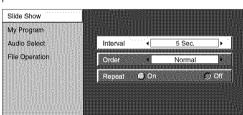
You can adjust the interval, order and repeat settings.



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

Selected item	Selectable item	
Interval	1-10/15/20/25/30/45/60 Sec. 15/30/60 Min.	
Order	Normal, Random, My Program	
Repeat	On, Off	

My Program

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



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



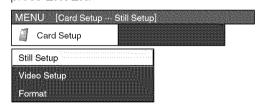
Press **MENU** and the MENU screen displays.



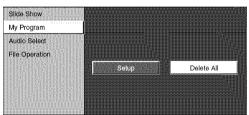
Press **◄/▶** to select "Card Setup".



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



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





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



Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select the files, and then press **ENTER**.

To cancel My Program setting



Select "Delete All" at step 5 in "My Program", and then press **ENTER**.



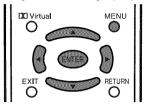
Press **◄/▶** to select "Yes", and then press **ENTER**.

None

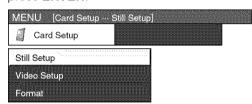
• All the registered numbers are cleared.

Audio Select

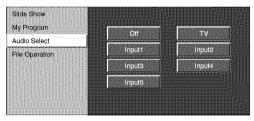
You can enjoy the audio from TV or other external equipment during the still image playback.



- Press **CARD** and the card mode screen displays.
- 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 "Audio Select", and then press ENTER.



Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select the desired sound output, and then press **ENTER**.

Protecting still picture files

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



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

2

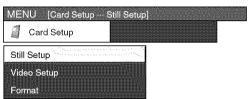
Press **MENU** and the MENU screen displays.

3

Press **◄/▶** to select "Card Setup".

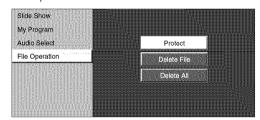


Press ▲/▼ to select "Still Setup", and then press ENTER.



5

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



- 6
- Press **◄/▶** to select "Protect", and then press **ENTER**.

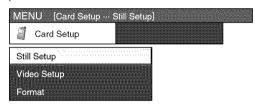


Press $\triangle/\nabla/ </ri>
To select the file you want to protect, and then press ENTER.$

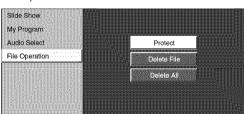
- Protect mark displays.
- Select the file with a protect mark and press ENTER to cancel file protect.

Deleting a still image file

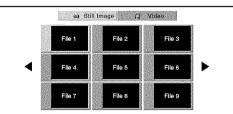
- Press **CARD** and the card mode screen displays.
- Press **MENU** and the MENU screen displays.
- 3 Press **◄/▶** to select "Card Setup".
- Press ▲/▼ to select "Still Setup", and then press ENTER.



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



- 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**.

S NoTE

- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Deleting all still image files



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



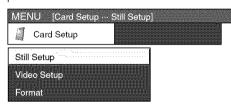
Press **MENU** and the MENU screen displays.



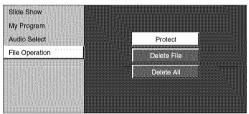
Press
√> to select "Card Setup".



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



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



6

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



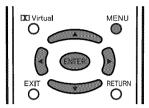
Press **◄**/**▶** to select "Yes", and then press **ENTER**.

SMOTE

- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Rec. Mode

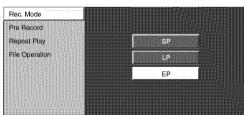
Use this setting for recording images you are currently watching. You can select the recording mode (picture quality) for a motion picture.



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



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



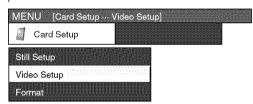
Press **MENU** and the MENU screen displays.



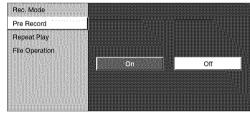
Press **◄/▶** to select "Card Setup".



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



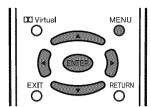
Press ▲/▼ to select "Pre Record", and then press ENTER.

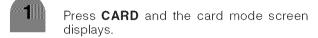


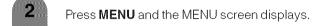


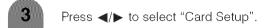
Repeat Play

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





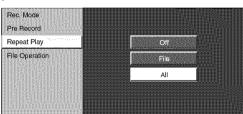








Press ▲/▼ to select "Repeat Play", and then press **ENTER**.



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

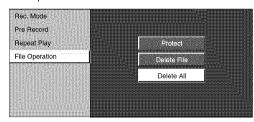
Protecting motion picture files

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

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



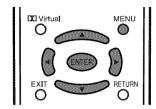


Press ▲/▼ to select "Protect", and then press **ENTER**.

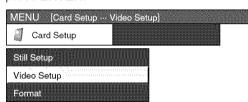


Press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to select the file you want to protect, and then press **ENTER**.

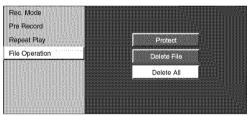
Deleteing a motion picture file



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



- 6 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**.

SINOTE

- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Deleteing all motion picture files



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



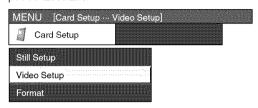
Press **MENU** and the MENU screen displays.



Press
√ to select "Card Setup".

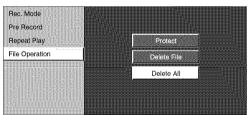


Press ▲/▼ to select "Video Setup", and then press ENTER.





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





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



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

СМОТЕ

- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Recording a motion picture

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.

SMOTE

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

- ① DTV broadcasting ② COMPONENT input
- (3) RGB input
- Copyguarded signal
- (5) DVİ-İ input

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 MAIN POWER on the display while recording. Recording cannot finish properly and may damage the file.
- 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 ▲/▼/◄/▶ to select the file you want to play, and then press ENTER.

Video playback starts.



Press **CARD** again to display the operation panel.

See XX for the operation panel information.

Format



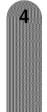
Press **MENU** and the MENU screen displays.



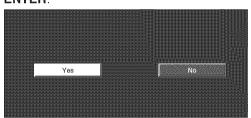
Press <a>/▶ to select "Card Setup".



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



Press <a>/▶ to select "Yes", and then press ENTER.



♠ NOTE

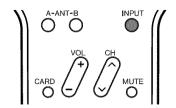
• Formatting a card deletes all files including the ones which set to protect.

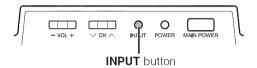
Using external equipment

You can connect many types of external equipment to your System, 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 protect all equipment, always turn off the AVC System before connecting to a DVD player, VCR, Digital TV tuner, PC, HDMI equipment, game console, camcorder or other external equipment.

S NOTE

- See pages X/X to X/X 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.
- If the image does not come in clearly, you may need to change the input signal type setting on the "Input Select" menu
- Refer to your external equipment operation manual for the signal type.

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

INPUT SOURCE

TV

INPUT1

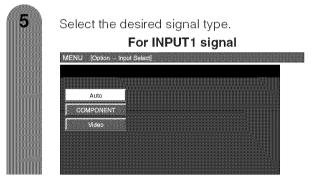
INPUT2

INPUT3

INPUT4

INPUT5

CARD



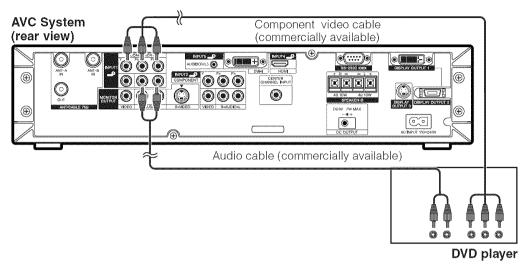
The setting is stored and can be selected on the "INPUT SOURCE" menu.

- Press **MENU** and the MENU screen displays.
- Press **⋖/▶** to select "Option".
- Press ▲/▼ to select "Input Select", and then press ENTER. MENU [Option - Input Select] Card Setup Option Audio Only Digital Noise Reduction [Auto] Input Select Audio Out [Fixed] [Off] Quick Shoot [0ff] Center Channel Input Caption Setup

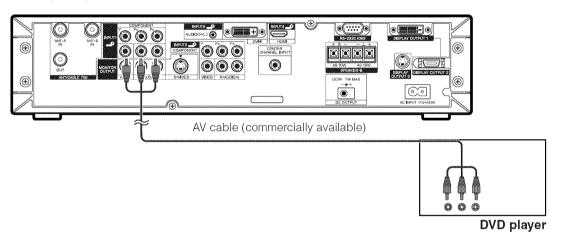
Connecting a DVD player

You can use the INPUT 1 terminal when connecting to a DVD player and other audiovisual equipment.

When using component cable.



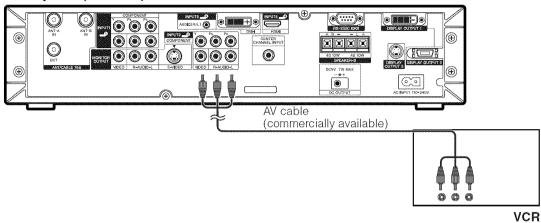
When using composite cable.



Connecting a VCR

You can use the INPUT 2 terminal when connecting a VCR and other audiovisual equipment.

AVC System (rear view)



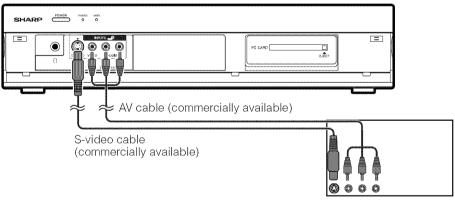
Connecting a game console or camcorder

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.

AVC System (front view)

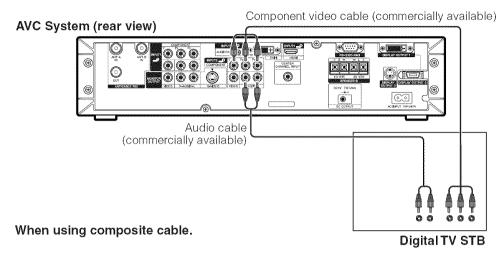


Game console/Camcorder

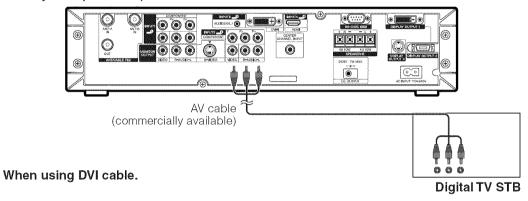
Connecting a Digital TV STB

You can use the INPUT 2 terminal when connecting a Digital TV STB and other audiovisual equipment.

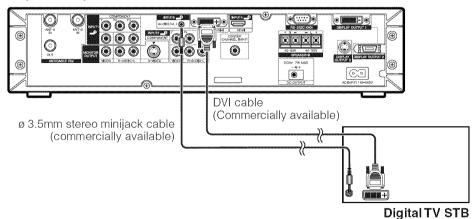
When using component cable.



AVC System (rear view)

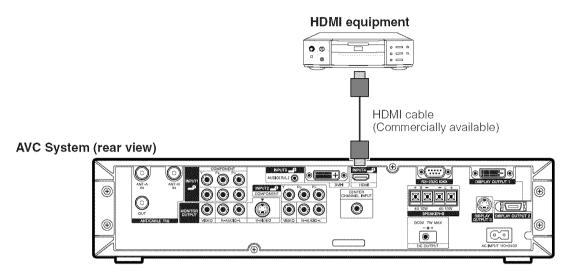


AVC System (rear view)



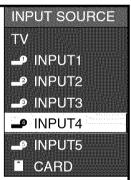
Connecting HDMI equipment

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 Display. (See page XX.)





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



Press $\triangle/\nabla/\triangle/\triangleright$ to select the desired setting and press **ENTER**.

NOTE

- Refer to your external equipment operation manual for the signal type.
- Unless you have a troble viewing the image, select "Auto" or "Standard".
- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Option".

Caption Setup

Press ▲/▼ to select "HDMI Setup", and then press ENTER. MENU [Option -- HDMI Setup] Option Card Setup Audio Only DNR [Low] HDMI Setup [Auto] Input Select [ANALOG PC] Output Select [Fixed] Quick Shoot [Off] Center Channel Input [Off]

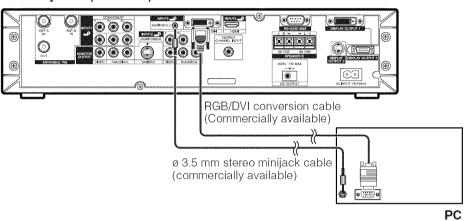
Connecting a PC

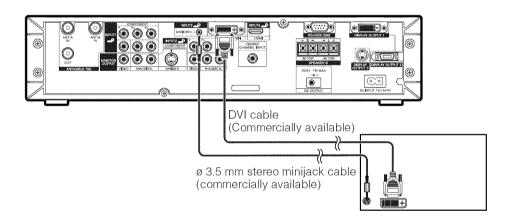
Use the INPUT 5 terminal to connect a PC.

NOTE:

• Refer to page XX for a list of PC signals compatible with the System.

AVC System (rear view)

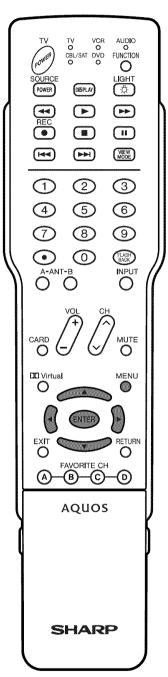




Useful adjustment settings

Image position (AV input mode only)

For adjusting a picture's horizontal and vertical position.





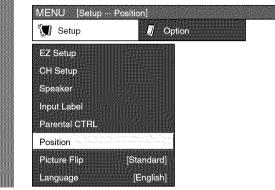
Press **MENU** and the MENU screen displays.



Press **◄/>** to select "Setup".

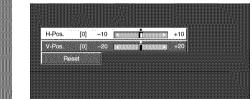


Press ▲/▼ to select "Position", and then press ENTER.





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





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

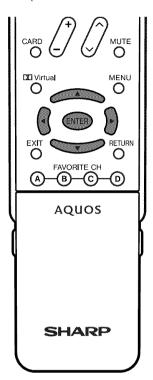
NOTE

- 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 page XX, 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.

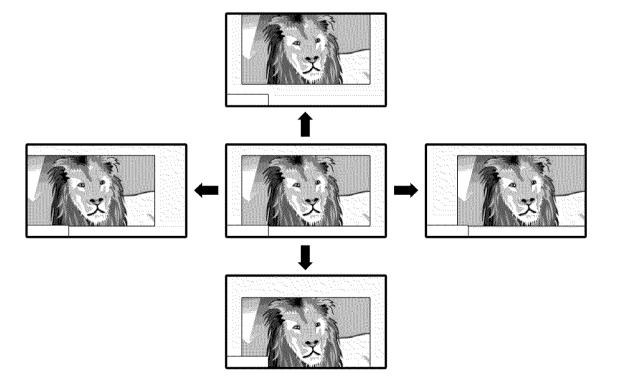


Press ▲/▼/◄/▶ to move an image on the screen to the desired position. Press ENTER to return to the initial image position.

♦ NOTE

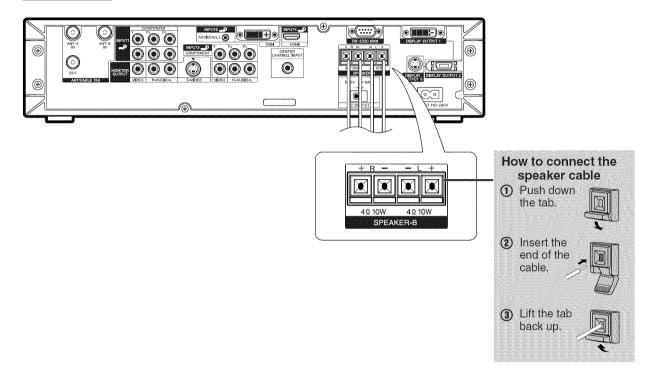
- While pressing ▲/▼/◄/▶, an on-screen image, "Adjusting Position" displays to the desired position.
- This setting cannot be stored. Once the System shuts down or enters standby mode, the setting is erased. To move the picture around the screen again, you must perform the above procedure again.
- The image position setting using the steps on page XX
- can be stored. Select either according to your objectives.

 "TV", "INPUT1", "INPUT2", "INPUT3", "INPUT4" and "INPU5" 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.
- Initialize the image position by pressing ENTER.



Connecting external speakers

Rear view



When using external speakers

 Change the speaker setting to external speakers. (See page XX.)

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

- 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.

Corre

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

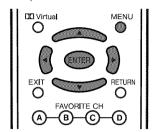
CAUTION

- 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.

Useful adjustment settings

Selecting speakers

You can output audio using the supplied speakers or other external speakers.

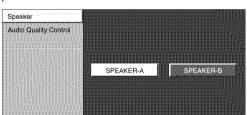


Press **MENU** and the MENU screen displays.

Press **◄/▶** to select "Setup".

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

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



Press **◄/▶** to select "SPEAKER-A" or "SPEAKER-B", and then press **ENTER**.

Selected item	Description	
SPEAKER-A	R-A Speakers connected to the Display.	
SPEAKER-B	Speakers connected to the AVC System.	

Audio Quality Control

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



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



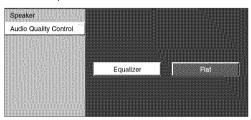
Press **◄/▶** to select "Setup".



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



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

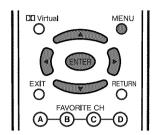




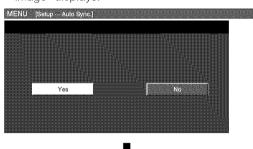
Press **◄/▶** to select "Equalizer" or "Flat", and then press **ENTER**.

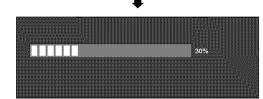
Auto Sync. adjustment (PC input mode only)

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





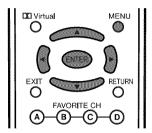
SNOTE

- 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 with a PC image composed of similar patterns or monochrome. If not successful, change the PC image and try again.
- Be sure to connect the PC to the AVC System 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.



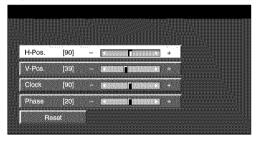
Press **◄/▶** to select "Setup".



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



Press ▲/▼ to select the specific adjustment item.



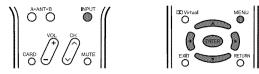


Press
√> to adjust the item to your desired position.

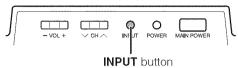
• For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press ENTER.

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	Adjusts the clock frequency.	
Phase	Adjusts the clock phase.	

Input Select



Display



Selecting input source

Can use for selecting the input source.



Press **INPUT** on the remote control unit or on the Display.



Press **INPUT** on the remote control unit or on the Display to select the input source.

- An image from the selected source automatically displays.
- You can also select the input source by pressing ▲/▼.

NOTE

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

Selecting input signal type

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



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



Press **◄/▶** to select "Option".



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



Press ▲/▼ to select a signal type you want to set, and then press **ENTER**.

 If the selected signal type is incorrect, an image does not display or no color image displays.

1075

- The System automatically sets input signals from "INPUT1" and "INPUT2".
- If no (color) image displays, try to change the signal type.
- 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.

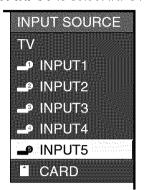
INPUT 1 and INPUT 2	INPUT 5
1. COMPONENT VIDEO	1. DIGITAL PC
2. VIDEO	2. ANALOG PC
	3. DIGITAL AV
	4. ANALOG AV

DVI input signal setting

1

5

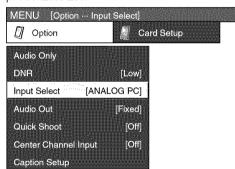
Press **INPUT** to select INPUT5.



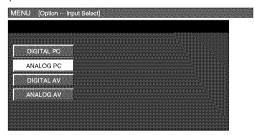
Press **MENU** and the MENU screen displays.



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

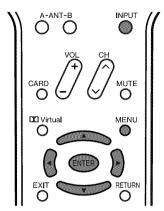


Press ▲/▼ to select the equipment connected to INPUT 5 terminal, and then press **ENTER**.



Input Label

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



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

Parental CTRL
Position
Picture Flip

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

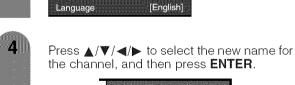
MENU [Setup ... Input Label]

Setup

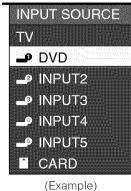
CH Setup

Speaker

Input Label

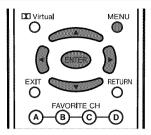


[Standard]



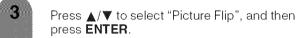
Picture flip

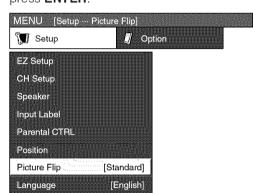
You can set the orientation of the picture.



AV input mode

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





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



[Standard]: normal image.



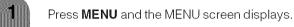
[Mirror]: mirror image.



[Upside Down]: upside

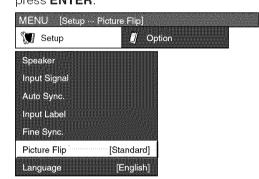
down image.

PC input mode





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



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

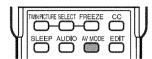


[Rotate]: rotated image.

ABC

AV MODE

AV MODE gives you six viewing options to choose from to best match environment of the System, 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.

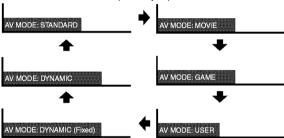
Present AV MODE displays.



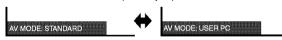
Press AV MODE again before the mode displayed on the screen disappears.

• The mode changes as shown below.

Mode selection for the INPUT 1 to 5 terminals (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	

SINCTE

- You can select a different AV MODE item for each input mode. (For example, select STANDARD for TV input and DYNAMIC for VIDEO input.)
- When AV MODE is set to DYNAMIC (Fixed), "No picture adjustments available in Dynamic (Fixed) mode" displays.

View mode for 4:3 Programs



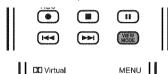
Press VIEW MODE.

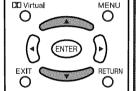
- The View mode menu displays.
- The menu lists the view mode options selectable for the type of video signal currently received.



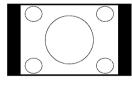
Press VIEW MODE or ▲/▼ while the View mode menu is still on the screen.

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



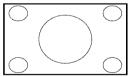






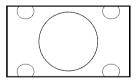
Side Bar:

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



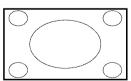
(Smart stretch)

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



Zoom:

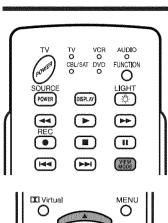
Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.



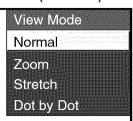
Stretch:

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

Useful adjustment settings



Input signal (640×480)



View mode (for PC input mode)

You can select the screen size.

C Nome

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

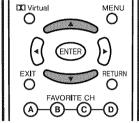


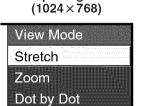
Press VIEW MODE.

• The View mode menu displays.



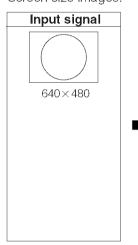
Press **VIEW MODE** or **△**/▼ to select a desired item on the menu.

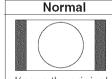


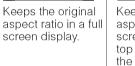


Input signal







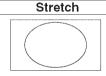


Normal

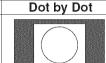


Keeps the original aspect ratio in a full screen display. The top and bottom of the image is slightly cropped.

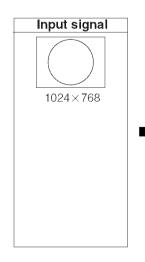
Zoom



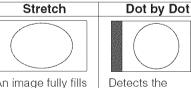
An image fully fills the screen.



Detects the resolution of the signal and displays an image with the same number of pixels on the screen.



Keeps the original aspect ratio in a full screen display. The top and bottom of the image is slightly cropped.	An image futhe screen.



Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

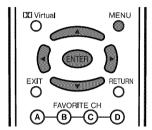
Input signal (for PC input mode)

- 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

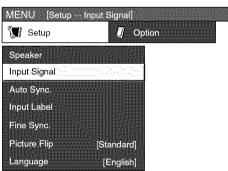
LOTE

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

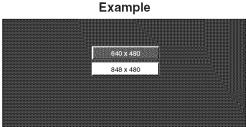


- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Setup".



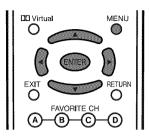


Press $\blacktriangle/\blacktriangledown$ to select the desired input signal on the display.



Digital Noise Reduction

Produces a clearer video image.



1

Press MENU and the MENU screen displays.

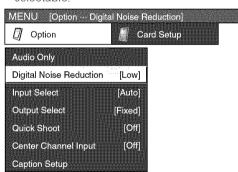


Press **◄/>** to select "Option".

3

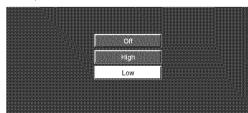
Press $\blacktriangle/\blacktriangledown$ to select "Digital Noise Reduction", and then press **ENTER**.

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



4

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



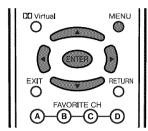
Ŝ\ NOTE

• "Digital Noise Reduction" is not selectable when channel display shows an input resolution of 720P or 1080I.

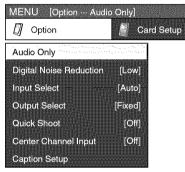
4

Audio only

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



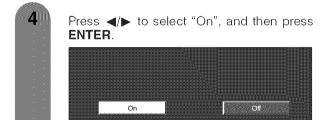
- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Audio Only", and then press ENTER.



(On-screen display for AV input mode.)



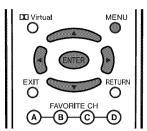
(On-screen display for PC input mode.)



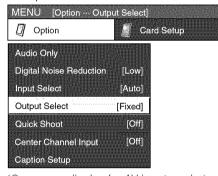
Selected item	Description
On	Audio is output without screen image.
Off	Both screen images and audio are output.

Output Select

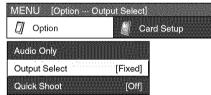
Allows you to select what controls the audio output.



- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Output Select", and then press ENTER.

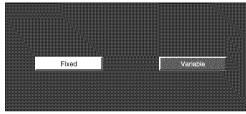


(On-screen display for AV input mode.)



(On-screen display for PC input mode.)

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

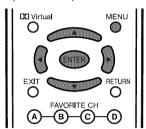


(On-screen display for AV input mode.)

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.		

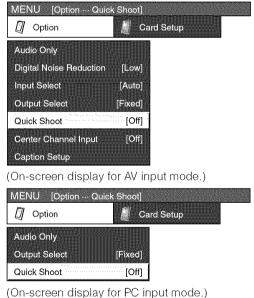
Quick shoot

Improves the response of Liquid Crystal Panel when viewing fast-moving images. The effect is greater at low room temperatures (at or below 59°F/15°C).



- Press **MENU** and the MENU screen displays.
- Press **∢**/**▶** to select "Option".
- Press ▲/▼ to select "Quick Shoot", and then press ENTER.

 MENU [Option ... Quick Shoot]



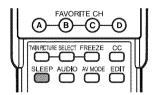
Press
to select "On", and then press ENTER.

NOTE

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

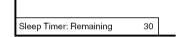
Sleep timer

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



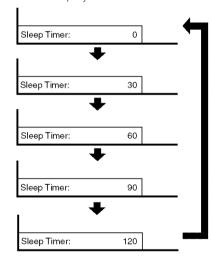
Press **SLEEP**.

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

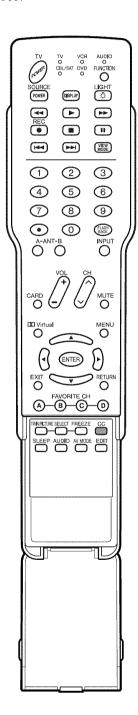


○ NOTE

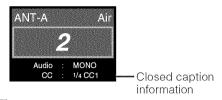
- Select "0" by pressing **SLEEP** to cancel the sleep timer.
- When the sleep timer is working, its indicator on the Display lights red.

Closed caption

- Your System 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.
- "T1" or "T2" superimposes on the picture other information (e.g. TV guide, weather) that is independent of the TV in progress.



Each time you press CC, the closed caption toggles.

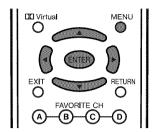


CONOTE

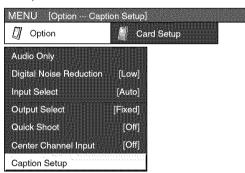
- See page XX to XX for the detailed closed caption settings.
- When using Twin Picture (see page XX) and Still Image (see page XX) functions, the right screen cannot display closed caption data.
- When the program contains no closed caption, "—" displays in the closed caption information.
- Four kinds of closed caption information is available.
 However, selectable item depends on the information program contains.

Caption Size

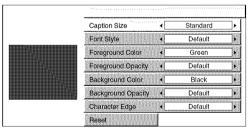
Select a caption size.



- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Caption Setup", and then press ENTER.



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



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

NAME :

4

 Default: The size specified by broadcasting station or default size.

Font Style

Select a font style.



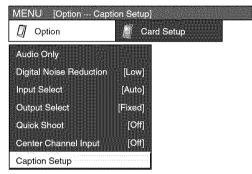
Press MENU and the MENU screen displays.



Press **◄/▶** to select "Option".

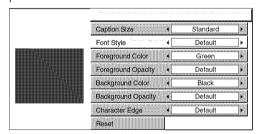


Press ▲/▼ to select "Caption Setup", and then press **ENTER**.





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



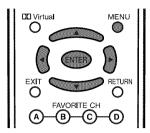


Press **◄/▶** to select the desired style, and then press **ENTER**.

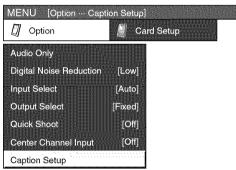
Selected item	Description
Default	The font specified by broadcasting station or default font.
Type 0	Proportional font used in the MENU screen.
Type 1	Monospaced with serifs.
Type 2	Proportionally spaced with serifs.
Type 3	Monospaced without serifs.
Type 4	Proportionally spaced without serifs.
Type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

Foreground Color

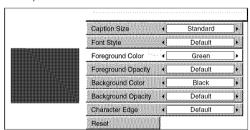
Select a character foreground color.



- Press **MENU** and the MENU screen displays.
- Press **√**/**▶** to select "Option".
- Press ▲/▼ to select "Caption Setup", and then press **ENTER**.



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



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

NOTE:

 Default: The color specified by broadcasting station or default color.

Foreground Opacity

Select a foreground opacity value.



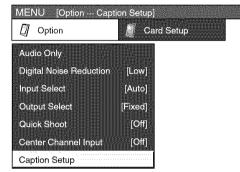
Press **MENU** and the MENU screen displays.



Press **◄/▶** to select "Option".

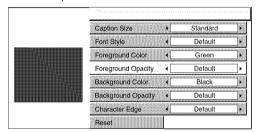


Press ▲/▼ to select "Caption Setup", and then press **ENTER**.





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





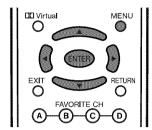
Press **◄/▶** to select the desired level, and then press **ENTER**.

NOTE

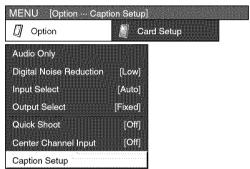
• Default: The opacity value specified by broadcasting station or default opacity value.

Background Color

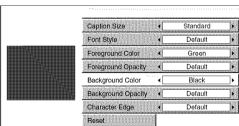
Select a character background color.



- Press **MENU** and the MENU screen displays.
- 2 Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Caption Setup", and then press **ENTER**.



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



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

1075

 Default: The color specified by broadcasting station or default color.

Background Opacity

Select a background opacity value.

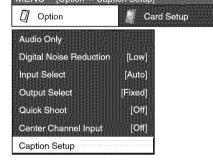


Press **MENU** and the MENU screen displays.



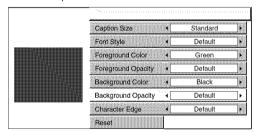
Press **◄/▶** to select "Option".





4

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





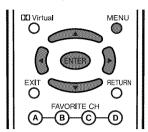
Press **◄/▶** to select the desired value, and then press **ENTER**.

NOTE

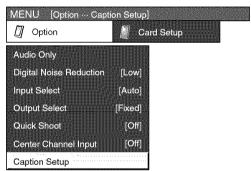
• Default: The opacity value specified by broadcasting station or default opacity value.

Character Edge

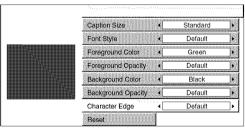
Select a character edge.



- Press **MENU** and the MENU screen displays.
- Press **◄/▶** to select "Option".
- Press ▲/▼ to select "Caption Setup", and then press ENTER.



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



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

NOTE

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

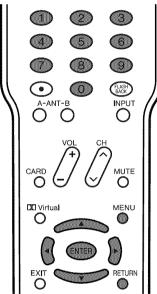
Secret number setting for parental control (AV input mode only)

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 XX to XX):

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



Setting a secret number

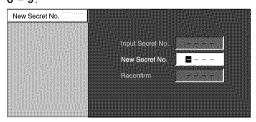




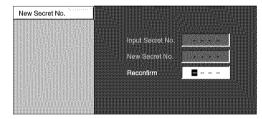




Select "New Secret No.", and then press ENTER. Input the new 4-digit secret number by using 0 - 9.



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 XX and XX for details.)

Setting parental control status

Used to enable or disable the parental control function.

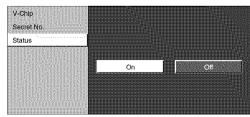
Repeat steps 1 to 3 in Setting a secret number. • Secret number setting menu displays.

Input the 4-digit secret number by using 0 -

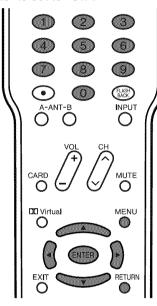
Press ▲/▼ to select "Status", and then press ENTER.

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

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



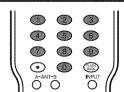
• You can skip step 1 and 2 above while in Parental CTRL screen.







Useful adjustment settings





Changing the secret number

Allows you to change your current secret number.



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

Secret number setting menu displays.



Input the 4-digit secret number by using $\mathbf{0} - \mathbf{9}$.



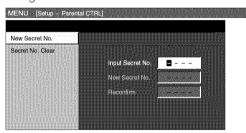
Press ▲/▼ to select "Secret No.", and then press **ENTER**.



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

5

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



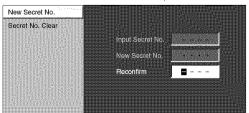
6

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 **0** – **9**



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

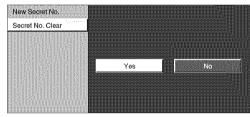


Press ▲/▼ to select "Secret No. Clear", and then press **ENTER**.



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

· Your secret number is cleared.



NOTE

- See page XX for re-registering with a new secret number after being cleared.
- As a precautionary measure, make a note of your secret number and keep it in a familiar place. If you lose or forget your secret number, initialize the Liquid Crystal Television to return all settings except for the TV channel settings to factory preset values. (See page XX.)
- 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)

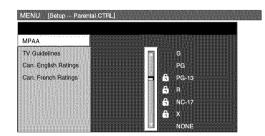
V-CHIP is an electronic filtering device built into your System. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once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

"V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page XX 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	ng	Description
	G	General audiences. All ages admitted.
	PG	Parental guidance suggested. Some material may not be suitable for children.
	PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
Age	R	Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions).
	NC-17	No one 17 and under admitted.
	Х	A rating that has now been superseded by NC-17.





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

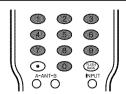
NOTE:

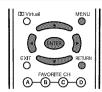
Voluntary movie rating system only uses an age-based rating.

TV Parental Guidelines

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

X: Content rating can be set.





Voluntary movie rating system (MPAA)

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

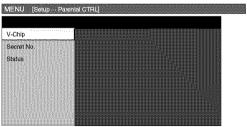
Press **◄/▶** to select "Setup".

3

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

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



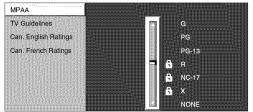


Press ▲/▼ to select "MPAA", and then press ENTER.

Press ▲/▼ to adjust the item to your desired position. "a" 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 XX.)

Example



TV Parental Guidelines (TV Guidelines)



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

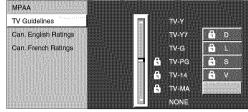


Press ▲/▼ to select "TV Guidelines", and then press ENTER.

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.

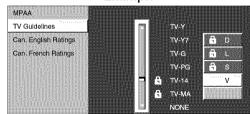
Example



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.
- Press ▲/▼ to select an individual item, and then press ENTER to unblock ("B" 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 XX.)

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
- while violence is the most important content 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.

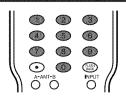
Canadian English ratings

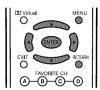
Rat	ing	Description
	E	Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.
	С	Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and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

Canadian French ratings

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

Useful adjustment settings





Canadian English ratings



Press MENU and the MENU screen displays.



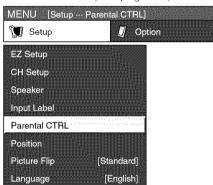
Press ✓/➤ to select "Setup".

3

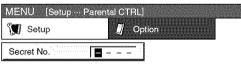
5

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

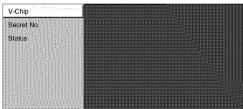
- Secret number setting menu displays only when "Secret No." is set. (See page XX.)
- "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number. (See page XX.)



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



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



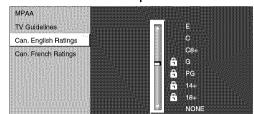
Press ▲/▼ to select "Can. English Ratings", and then press **ENTER**.

Press ▲/▼ to adjust the item to your desired position. "♣" 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 XX.)

Example



Canadian French ratings



Repeat steps 1 to 5 in Canadian English ratings.



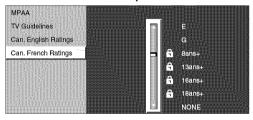
Press ▲/▼ to select "Can. French Ratings", and then press **ENTER**.

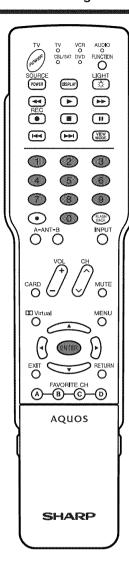


Press ▲/▼ to adjust the item to your desired position. "♣" indicates the item is blocked.

- 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 XX.)

Example





How to temporarily release the V-CHIP BLOCK

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



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



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

Reactivating the temporarily released the 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 XX.

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 XX and XX.

Method 3:

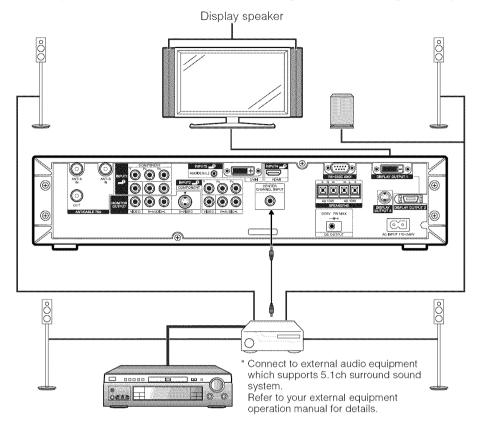
Switch off the AVC System power.

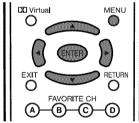
1 0 T in

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

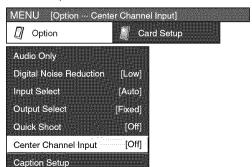
Center Channel Input

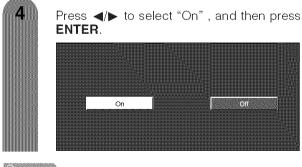
You can use the display speakers as center speaker when using 5.1ch surrounding sound system.





- 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**.





No.

 Sound from Centre Channel Input terminal is output from the display speaker.

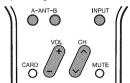
Other viewing options

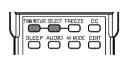
Twin picture functions

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 5 terminal and card.



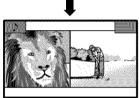




Press TWIN PICTURE.

 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.



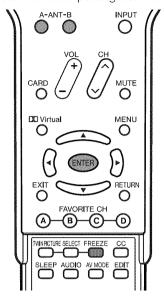
Press **TWIN PICTURE** to exit twin picture.

S NOTE

- This function does not work under the following input conditions:
 1) PC INPUT mode,
 - (2) CARD mode.
 - ③ Two pictures from the same source (e.g. INPUT 1 and INPUT 1),
 ④ HDTV signal source is input on the right side screen display.
- 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.
- Pressing ANT-A/B while viewing Twin Picture with video selected will not change the image displayed.
- Pressing ANT-A/B while viewing Twin Picture with two TV images displayed will not have any effect.
- Pressing ANT-A/B while viewing Twin Picture with two video images displayed will switch the selected screen to a TV image.

Picture and still image

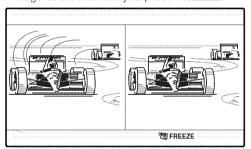
You can display two same-sized pictures – one moving and one still – when inputting from an AV source.





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.



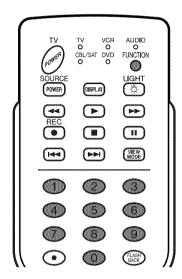
Press **RETURN** to exit still image.

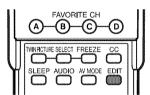
♠ NOTE

- This function does not work in PC and Card mode.
- When this function is not available, "No still image display available." will display.
- The still image automatically goes out after 30 minutes.

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** to match the device to which you want to preset the remote control code.



Press **EDIT** and **1** at the same time.

· LED flashes continuously.



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

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

SNOTE

- To stop the EDIT mode in the middle, press **EDIT** once more.
- If **FUNCTION** is pressed while in EDIT mode, EDIT mode will be canceled.
- If there is no operation for over 1 minute running, exit this mode.
- When you enter a code that is not listed, LED flashes quickly.
- The initial mode is "00".

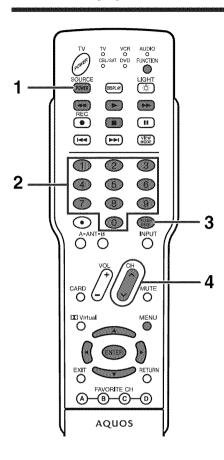
Manufacturer codes

VCR BRAND	REMOTE CONTROL CODE NUMBER
Akai Audio Broksonic Canon Capehart Craig Curtis Mathis Daewoo DBX Dynatech Emerson Fisher Funai G.E. Goldstar Hitachi Instant Replay JC Penney JVC Kenwood Lloyds Magnavox Magnin Marantz Memorex Minolta Mitsubishi Montgomery Ward Multitech NEC Panasonic Pentax Philco Philips RCA Realistic Samsung Sanyo Scott Sears Sharp Shintom Sony Sound Design Sylvania Symphonic Tatung Teac Teknika Thomas TMK Toshiba Video Concepts Yamaha Zenith	25, 26, 37 15, 22, 30 32 04 34 10, 31 04 34 15, 22, 30 29 21, 32, 35 09, 10, 11 28, 29 04 24 06, 47 04 04, 06, 24, 30 15, 41, 42, 53 14, 15 29 04, 05, 08 31 30 04, 10, 24, 29 06 17, 18, 39, 40 02, 43 29 15, 22, 30 44, 45 05, 06 05 05, 08 06, 07, 33, 51 01, 02, 10, 24 23, 31 10, 14, 52 20 06, 11, 24 01, 02, 03 36 12, 13, 38 29 15, 29 27, 29 29 21 19, 20 30 15, 29, 30 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,
	19, 22
Jerrold	02, 03, 07, 12, 13, 14,
	19, 22, 31, 32, 33, 34,
	35, 36, 37, 38, 39, 40
Magnavox	04, 05, 09, 14, 17, 18,
	20, 21, 24, 25
Oak Sigma	8
Panasonic	16, 23
Philips	04, 05, 09, 15, 17, 18,
<u></u>	20, 21, 24, 25
Pioneer	08, 10, 29, 30, 46
Randtek	04, 05
RCA	16, 27, 44, 45
Scientific Atlanta	01, 26 28
Sony	
Viewstar	04, 05, 09, 15, 17, 18,
Zenith	20, 21, 24, 25 06, 14

AUDIO BRAND	REMOTE CONTROL CODE NUMBER
Sharp	01



TV TV VCR AUDIO OCAUSAT DVO FUNCTON OCAUSAT DV

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.

2 0 - 9

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

3 FLASHBACK *

Press to switch between the current channel and the channel you were watching immediately before.

4 CH A/W

Press CH ▲ or CH ▼ to tune in a higher or lower channel.

* Some manufacturers do not preset FLASHBACK.

CHOTE

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

SAT control buttons

1 SOURCE POWER

Turns the Satellite broadcast tuner power on and off.

2 - 0 - 9

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

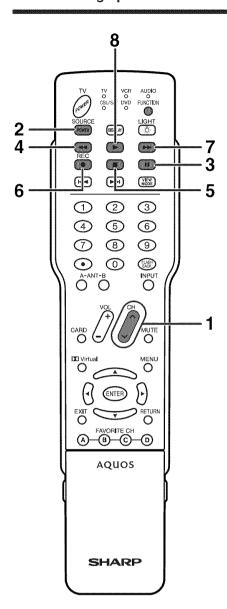
3 ENTER, **▲**/▼/◀/▶

ENTER: Press to activate the selected function.

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

NOTE

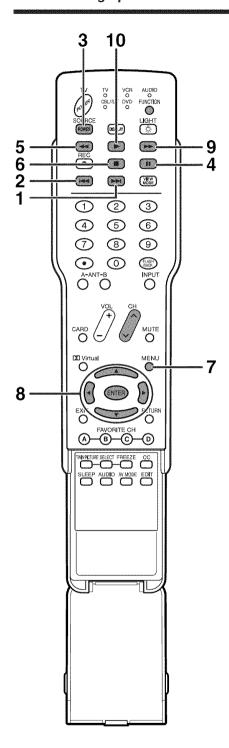
• CABLE and SAT cannot be selected at the same time.



VCR control buttons

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

- When the input selector button having the same number as the input terminal connecting the VCR is pressed, the VCR can operate using 1 to 8.
- 1 CH ▲/▼ 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 Start 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 11. (7 to 9 are for DVD players only.)

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

2

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

3 SOURCE POWER

Turns the power of the DVD player on and off.

4

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 DVD 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	 Make sure the Display and the AVC System are connected correctly. (See page XX.) Check if you pressed TV POWER on the remote control unit. (See page XX.) If the indicator on the Display lights up red, press POWER on the Display. Is the AC cord disconnected? (See page XX.) Has the main power been turned on? (See page XX.)
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 and the AVC System, or unplugging the AC cord and replugging it in after 1 or 2 minutes.
Remote control unit does not operate.	 Is the Mode switch set correctly? Slide it to the TV setting position. Are batteries inserted with polarity (+, -) aligned? (See page XX.) 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 pages XX and XX.) Are screen mode adjustments such as picture size made correctly? (See pages XX and XX)
Strange color, light color, or color misalignment	 Adjust the picture tone. (See pages XX to XX.) Is the room too bright? The picture may look dark in a room that is too bright. Check the input signal setting. (See page XX.)
Power is suddenly turned off.	 Is the sleep timer set? (See page XX.) Check the power control settings. (See pages XX and XX.) The unit's internal temperature has increased. Remove any objects blocking vent or clean.
No picture	 Is connection to other components correct? (See pages XX to XX.) Is correct input signal source selected after connection? (See page XX.) Is the correct input selected? (See page XX.) Is a non-compatible signal being input? (See page XX.) Is picture adjustment correct? (See pages XX to XX.) Is "On" selected in "Audio Only"? (See page XX.)
No sound	 Is the volume too low? (See page XX.) Is "Variable" selected in "Output Select"? (See page XX.) Is correct speaker output ("Speaker-A" or "Speaker-B") selected in "Speaker"? (See pages XX and XX.) Is "On" selected in "Center Channel Input"? (See page XX.)

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	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 460	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
XG.		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
	NOA	1024 7 700	60.0 kHz	75 Hz	0
			68.7 kHz	85 Hz	0
WXGA		1280 x 720	45.0 kHz	60 Hz	
		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	

Apple and Macintosh are registered trademarks of Apple Computer, Inc.
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 System

- When a program is set, the Display 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 Display'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 display operates according to the received command and sends a response message to the PC. Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

Command format

Eight ASCII codes + CR

C1 C2 C3 C4 P1 P2 P3 P4 Command 4-digits:Command. The text of four characters. Parameter 4-digits:Parameter 0 – 9, x, blank, ?

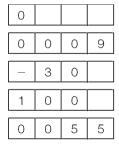
Command 4-digits

Parameter 4-digits Return code

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.



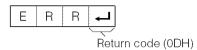
When "?" is input for some commands, the present setting value responds.



Response code format

Normal response 0 Κ 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 ITEM		C	MC	MΑ	ND	PΑ	RAI	ИЕТ	ER		CONTROL CONTENTS	
POWER SETTING					R						It shifts to standby.	
INPUT SELECTION A TOGGLE		I	Т	G	D	D x (Toggle) It input-switches by the toggle, (It is the same as an		It input-switches by the toggle. (It is the same as an input change key)				
	TV	Т	Т	V	D	0	1	_	_	. 33 /	It input-switches to TV. (A channel remains as it is. (Last memory))	
	INPUT1-5	ī	Α	V	D	-	1	-	_	Input terminal number (1-5)	It input-switches to INPUT1~INPUT5.	
	CARD	Ť	С	R	D	х	-	_	_		It shifts to CARD mode.	
INPUT SELECTION B	INPUT 1		Ν			0		_	_	AUTO	An input change is also included.	
		ľ		1		1		-	_	VIDEO	y with pat of ange to allow monadous	
						2		-	-	COMPONENT		
	INPUT 2	1	N	P	2			-	-	AUTO		
	012		ļ'``	ľ	-	1	-	-	_	VIDEO		
						2	<u>: -</u>	-	-	COMPONENT		
	INPUT 5		Ν	D	- 6	5		-	-	DIGITAL PC		
	1141 01 3	l '	14	ľ	1	6		-	-	ANALOG PC		
						7		-	-	DIGITAL AV		
						8		-	-	ANALOG AV		
AV MODE SELECTION		Α.	٧	B. A	<u> </u>	0		-	-	(Toggle)	Although it can choose now, it is toggle operation in inside.	
AV WODE SELECTION		^	٧.	IVI	10	1	+-	-	-	STANDARD	Attrioughtic carrieriouse now, it is toggie operation in inside.	
					1	2	-	-	-	MOVIE		
						3		-	-	GAME		
			1			4	+-	-	-	USER		
					1	5	+-	-	-	DYNAMIC (Fixed)		
						6	-	-	-	DYNAMIC (FIXEU)		
VOLUME		M	0	1	10.0		-	-	-	Volume (0–60)		
POSITION	H-POSITION							_	-	AV mode. (±10)		
FOOTHON	n-FOSITION	11	1'	10	13	4	-	-	-	PC mode. (0-180)		
	V-POSITION	M	D		10	*	*	*	-	AV mode. (±20)		
	V-I COITICIV	٧	ſ	٢	3		1	-	-	PC mode. (0-100)		
	CLOCK	_	-		К				-	Only PC mode. (0–180)		
	PHASE				E			_	-	Only PC mode. (0-40)		
VIEWMODE	FFIAOL				E			 	-	(Toggle) [AV]	Although it can choose now, it is toggle operation in inside.	
V.EODE			l '	0	1-	1		-	-	Side Bar [AV]	Anthough it can choose now, it is toggic operation in inside.	
						2		-	_	S.Stretch [AV]		
						3		-	-	Zoom [AV]		
						4	+-	Ι-	_	Stretch [AV]		
						5		-	_	Normal [PC]		
						6		-	-	Zoom [PC]		
						7	-	-	-	Stretch [PC]		
					1	8	+-	Η-	-	Dot by Dot [PC]		
MUTE		M	U	T	F	0		-	_	(Toggle)		
		.,,	ĭ	ļ `	-	1	+-	-	-	On		
						2		-	-	Off		
Dolby Virtual		Δ	С	n	l _V	0		Η-	-	(Toggle)		
0000, 10000		,	ľ	ľ	"	1	-	-	_	On .		
						2	-	_	-	Off		
AUDIO SELECTION		Α	С	Н	Δ	X	+-	-	-	(Toggle)		
SLEEP TIMER					М			-	-	OFF .		
OCCE THYLET		ľ	ľ	Ι΄		1		_	-	OFF TIMER – 30 MIN.		
						2		-	-	OFF TIMER - 60 MIN.		
						3	-	-	-	OFF TIMER - 90 MIN.		
						4		_	-	OFF TIMER - 120 MIN.		
CHANNEL	DIRECT	n	С	С	Н		-	4	-	The channel number of TV	An input change is included if it is not TV display.	
	CHANNEL		0	-	1.,	1			-	(1–125)	In Air, 2–69ch is effective.	
						1					In Cable, 1–125ch is effective.	
	CH UP		Н	11	P	×	t			The channel number of TV + 1	If it is not TV display, it will input-switch to TV.	
	CH DOWN				W			-	-		If it is not TV display, it will input-switch to TV.	
ANT-A/B					S		_	-	-	(Toggle)	Change toggle operation of tuner A/B.	
CC					Р		+-	1-	-	(Toggle)	Toggle operation of a closed caption.	
<u> </u>		Ľ	<u></u>		• •	-	-	_	_	1	1 - 20 1	

Synore:

- 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

ltem				32" LIQUID CRYSTAL TELEVISION, Model: LC-32G4U (Display) TU-GA1U-S (AVC System)	37" LIQUID CRYSTAL TELEVISION, Model: LC-37G4U (Display) TU-GA1U-S (AVC System)													
LCD panel				32" Advanced Super View & BLACK TFT LCD	37" Advanced Super View & BLACK TFT LCD													
Number of dots				3,147,264 dots (1366 × 768 × 3dots)														
TV	TV-sta	ındard	(CCIR)	American TV Standard NTSC System														
Function	Receiving VHF/UHF Channel			VHF 2-13ch, UHF 14-69ch														
	Chanr	nel [CATV	1-125ch														
	Audio	multip	lex	BTSC System														
Brightness				450 cd/m²														
Backlight				60,000 hours (at Backlight Standard po	sition)													
Viewing and	gles			H : 170° V : 170°														
Audio ampl	ifier			10W × 2														
Speakers				Ø 8cm 2pcs, Ø 2.5cm 2pcs														
Terminals	AVC	Rear	INPUT 1	AV in, COMPONENT in														
	System		INPUT 2	AV in, COMPONENT in														
			INPUT 4	HDMI in Audio in, DVI-I in														
			INPUT 5															
			ANTENNA	75 Ω Unbalance, F Type for VHF/UHF/CATV in × 2, out × 1														
			Monitor Out	S-VIDEO out, AV out														
			SPEAKER-B	4 Ω 10W (L/R)														
CENTER CHANNEL INPUT Front INPUT 3 Headphones																CHANNEL	RCA pin	
		Front	INPUT 3	S-VIDEO in, AV in														
		Headphones	Ø 3.5mm jack															
OSD langua	age			English/French/Spanish														
Power Req	uiremer	nt		AC 110-240 V, 50/60 Hz														
Power		AVC System		48W (0.4W Standby with AC 120 V)														
Consumption Display			127W (0.2W Standby with AC 120 V) 168W (0.2W Standby with AC 120 V)															
Weight AVC System			14.8 lbs./6.7 kg (w/o stand), 15.2 lbs./6.9 kg (with stand)															
	Display			28.7 lbs./13 kg (Display only), 38.6 lbs./17.5 kg (with Display and speaker), 48.5 lbs./22 kg (with Display, speaker and stand)	30.9 lbs./14 kg (Display only), 43 lbs./ 19.5 kg (with Display and speaker), 52.9 lbs./24 kg (with Display, speaker and stand)													
Accessories				Operation manual (×1), Remote control unit (×1), System cable (×1), AC cord (×2), "AAA" size battery (×2), AVC system stand unit (×1), Cable clamp (×1), RF cable (×1)	Operation manual (×1), Remote control unit (×1), System cable (×1), AC cord (×2), "AAA" size battery (×2), AVC system stand unit (×1), Cable clamp (×1), RF cable (×1), Bracket unit (×1), Speaker unit (×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 Liquid Crystal Television. Please purchase it at your nearest shop.

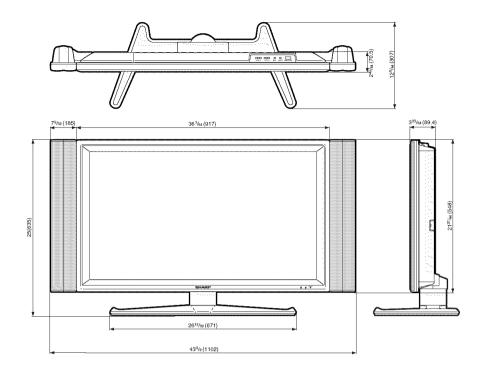
 Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

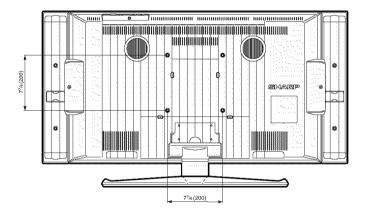
Part name	Part number
Wall mount bracket	AN-37AG2

Display

LC-37G4U

Unit: inch/(mm)

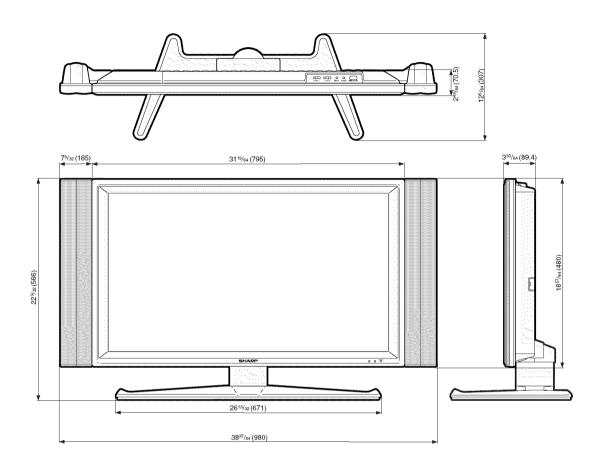


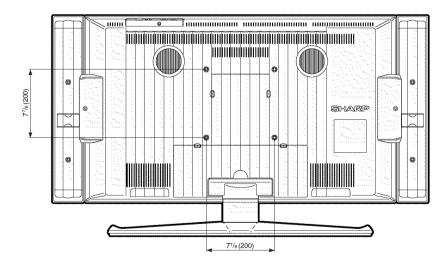


Display

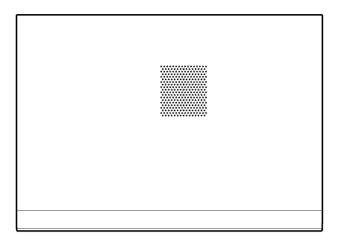
LC-32G4U

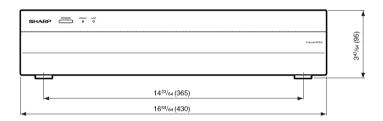
Unit: inch/(mm)

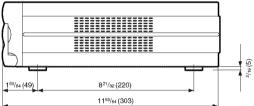




AVC System
Unit: inch/(mm)









Press and hold down **RESET** on the AVC System while it is in standby mode. Then press **POWER** button on the Display or **TV POWER** on the remote control unit to turn the System on.
All setting items (except TV channel) return to the factory presetting.

• 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 and the AVC System.
- **2** Press **MENU**. (Make sure the menu screen displays.)
- **3** Press **◄/▶** to select "Setup".
- 4 Press ▲/▼ to select "EZ Setup".
- 5 Press ENTER.

O 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				
----------------------	--	--	--	--

SINOTE

• 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-37G4U LCD Color Television

LC-32G4U LCD Color Television TU-GA1U-S LCD Color Television

(Be sure to have this information available when you need

service for your Product.)

Warranty Period for this Product: One (1) year parts and labor from the date of purchase.

Additional Item(s) Excluded from

Warranty Coverage (if any):

Non-rechargeable batteries.

Where to Obtain Service: From a Sharp Authorized Servicer located in the United States.

To find the location of the nearest Sharp Authorized Servicer,

call Sharp toll free at 1-800-BE-SHARP.

What to do to Obtain Service:

Contact your Sharp Authorized Servicer to obtain in-home service for this Product. The Servicer will come to your home

service for this Product. The Servicer will come to your home and if it is necessary to remove the Product, the Servicer will reinstall it. Be sure to have **Proof of Purchase** available.

TO OBTAIN PRODUCT INFORMATION, CALL 1-888-LCD-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 vear

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

Visit our Web site: www.sharp.ca



Revision 04/22/03