SHARP

LC-22SV2U

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

AQUOS

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





LC-22SV2U

LIQUID CRYSTAL TELEVISION

ENGLISH

OPERATION MANUAL

IMPORTANT:

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

Model No.:		
Serial No.:		

U.S.A. ONLY

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 arrowhead 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 (Continued)

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.

U.S.A. ONLY

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

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

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

DEAR SHARP CUSTOMER

Thank you for your purchase of the Sharp LCD Color TV product. To ensure safety and many years of trouble-free operation of your product, please read the Safety Precautions carefully before using this product.

IMPORTANT SAFETY PRECAUTIONS

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 LCD color TV product, please read the following precautions carefully before using the product.

- Read instructions—All operating instructions must be read and understood before the product is operated.
- Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- Observe warnings—All warnings on the product and in the instructions must be observed closely.
- Follow instructions—All operating instructions must be followed.
- Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
- If the AC adapter is misplaced or needs to be replaced, obtain the same type of adapter from a SHARP service center or your dealer.
- Overloading—Do not overload AC outlets or extension cords.
 Overloading can cause fire or electric shock.
- Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
- Repair—If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
 - a. When the power cord or plug is damaged.
 - b. When a liquid was spilled on the product or when objects have fallen into the product.
 - c. When the product has been exposed to rain or water.
 - d. When the product does not operate properly as described in the operating instructions. Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
 - e. When the product has been dropped or damaged.
 - f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
- Replacement parts—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
- Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
- 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.
- Polarization—This AC adapter may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

IMPORTANT SAFETY PRECAUTIONS (Continued)

Cleaning—Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.



Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.



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.



When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.



■ 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 LCD 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 LCD panel breaks.



Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



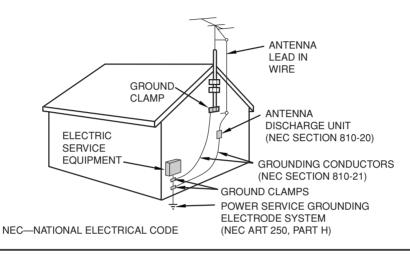
■ The LCD panel is a very high technology product with 1,229,760 thin film transistors, giving you fine picture details.

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.

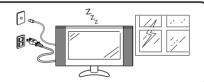
IMPORTANT SAFETY PRECAUTIONS (Continued)

■ 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. Section 810 of the National Electrical Code provides information with respect 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.

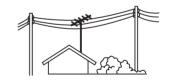
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



■ For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long period 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.



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.



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SUPPLIED ACCESSORIES

Make sure the following accessories are provided with the product.

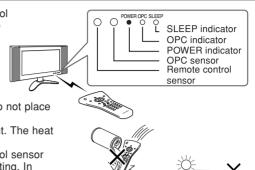
Remote Control	"AAA" size (UM/SUM-4) Di	ry Battery (×2)
**************************************	"AAA" size (UM/SUM-4) Dry Battery (×2)	
RRMCGA102WJSA	UBATU0038CE2	ZZ
Antenna Cable	AC Cord	
QCNWG0003CEPA	QACCD3097CE	→ III
AC Adapter	Operation Manual	Cable Clamp (×2)
	AQUOS NOM 1245	(See page 41)
UADP-0243CEPZ	TINS-A400WJN1	LHLDW0109CESA

Using the Remote Control

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

Cautions regarding use of the remote control

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



Batteries for the Remote Control

Before using the LCD TV set for the first time, install two ("AAA" size, UM/SUM-4) batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new ("AAA" size, UM/SUM-4) batteries.

1 Open the battery cover.



Slide the cover while pressing the (▼) part. 2 Insert two ("AAA" size, UM/ SUM-4) batteries.



■ Position the positive and negative ends of the batteries as indicated in the compartment 3 Close the battery cover.



■ Engage the claw on the cover into the battery housing and slide shut.

⚠ Caution!

Cautions regarding batteries

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

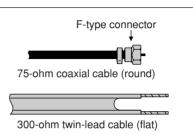
- Place batteries with their terminals corresponding to the (+) and (-) as indicated in the compartment.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new battery and/or cause the old battery to leak chemicals.
- Remove batteries when they become weak.
 Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth
- The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
- If the remote control will not be used for an extended period of time, remove the batteries from the remote control.

PREPARATION (Continued)

Antenna Connection

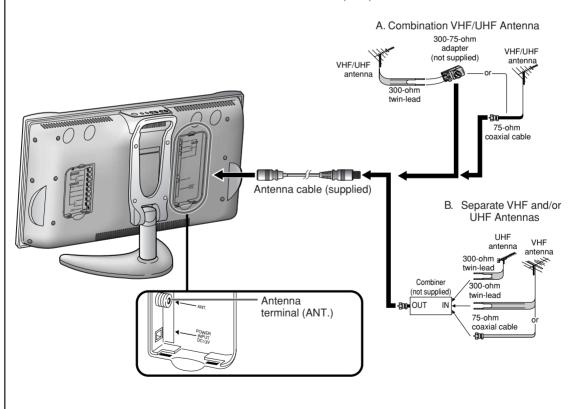
ANTENNAS

- The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended.
 The following is a brief explanation of the type of connections that are provided with the various antenna systems.
 - A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (not supplied).
 - 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 (not supplied).



OUTDOOR ANTENNA CONNECTION

- Use one of the following two diagrams if you connect an outdoor antenna.
 A: Using a VHF/UHF combination outdoor antenna
 - B: Using separate VHF and/or UHF outdoor antennas
- · Connect the outdoor antenna cable lead-in to the Antenna terminal (ANT.) on the rear of the TV set.



PREPARATION (Continued)

Antenna Connection (Continued)

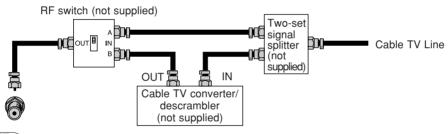
CABLE TV (CATV) CONNECTION

- A 75-ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75ohm coaxial cable to the set, screw the 75-ohm cable to the ANT. terminal.
- Some cable TV companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company. This converter/descrambler is necessary for normal viewing of the scrambled channels. (Set your TV to channel 3 or 4, typically one of these channels is used. If this is unknown, consult your cable TV company.) For more specific instructions on installing cable TV, consult your cable TV company. One possible method of utilizing the converter/descrambler provided by your cable TV company is explained below.

Please note: An RF switch provided with two inputs (A and B) is required (not supplied).

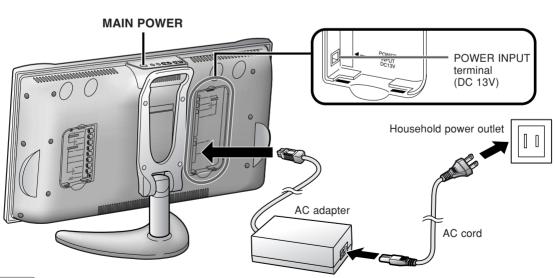
"A" position on the RF switch (not supplied): You can view all unscrambled channels by using the TV's channel keys.

"B" position on the RF switch (not supplied): You can view the scrambled channels via the converter/ descrambler by using the converter's channel keys.



Consult your SHARP Dealer or Service Center for the type of splitter, RF switch or combiner that might be required.

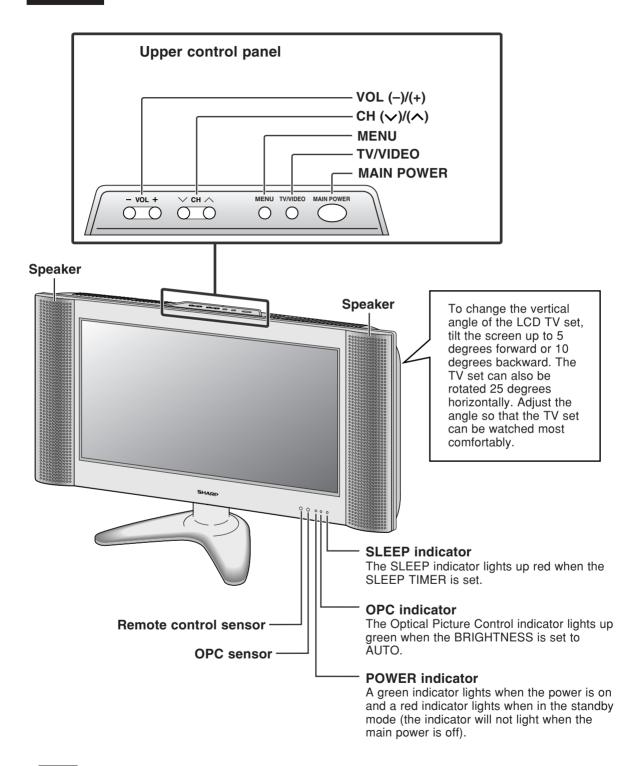
Power Connection



- Use a commercially available AC plug adapter, if necessary, depending on the design of the wall outlet.
- Always turn the MAIN POWER switch of the LCD TV set to off when connecting the AC adapter.
- Unplug the AC adapter from the product and power outlet when not using for a long period of time.

DISPLAY AND CONTROL OVERVIEW

Controls

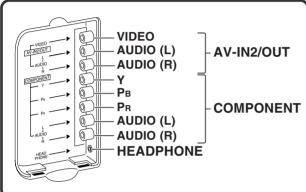


NOTE

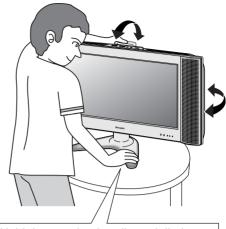
TV/VIDEO, CH (√)/(√), VOL (-)/(+), and MENU on the main unit have the same functions as the same buttons
on the remote control. Basically, this operation manual provides a description based on operation with the remote
control.

DISPLAY AND CONTROL OVERVIEW (Continued)

Terminals

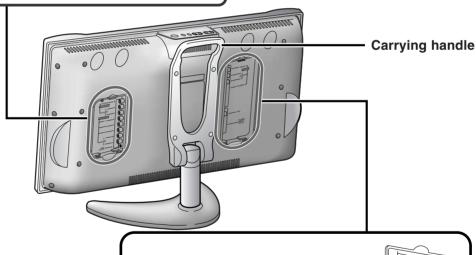


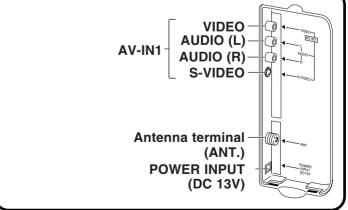
Adjusting the screen view angle



Hold the carrying handle and tilt the screen while steadying the stand with your other hand.

You can adjust the screen vertically up to 5 degrees forward or 10 degrees backward, or rotate 25 degrees horizontally.

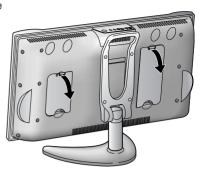




DISPLAY AND CONTROL OVERVIEW (Continued)

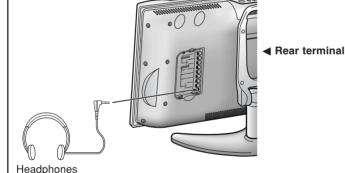
Removing the Back Cover

- Before connecting cables and cords into the rear terminals, remove the back covers. Push in the tabs and pull out the back covers carefully.
- To mount the cover, insert the 2 hooks on the bottom of the cover into the cabinet and press on the upper part of the back cover until the tab locks in place with a click.



Listening with Headphones

■ Plug the headphone mini-plug into the HEADPHONE jack located on the rear of the TV set.



▼ On-screen display

VOLUME 20 IIIIIIIIIII

Adjust the sound volume using VOL (+)/(-).

NOTE >

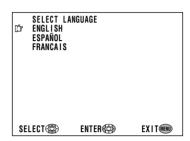
- Headphones are not included in the supplied accessories.
- No sound is heard from the main unit speakers when a headphone mini-plug is connected into the HEADPHONE jack.

EZ SETUP during the First Power On

Control section of main unit



- When you turn on the TV for the first time, it will automatically memorize the broadcasting channels.
 - Please perform the following instructions before you press **MAIN POWER**.
 - (1) Insert the batteries into the remote control. (See page 8.)
 - (2) Connect the antenna cable to the TV set. (See page 9.)
 - (3) Connect the AC adapter to the POWER INPUT terminal of the product and plug in the AC cord to the wall outlet. (See page 10.)
- Press MAIN POWER, located on the upper side of the main unit, to turn on the TV. The SELECT LANGUAGE mode will be displayed.
- 2 Press ▲/▼ to select "ENGLISH", "ESPAÑOL (SPANISH)" or "FRANCAIS (FRENCH)".
- 3 Press
 √ to access EZ SETUP mode.





1 2 3 4 5 6

7 8 9 MTS 0 100

SHARP

 $\triangle/\nabla/\blacktriangleleft/\triangleright$

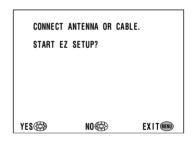
4 Press ▶.

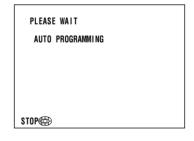
The tuner will automatically search for the broadcasting and cable TV channels. (The CH No. will automatically increase when it appears.)

If you want to stop the EZ SETUP process once it has started, press ◀ and it will be canceled. If you want to SET UP again, please refer to pages 29 and 30 on SET UP.

To cancel EZ SETUP

Press **◄**.





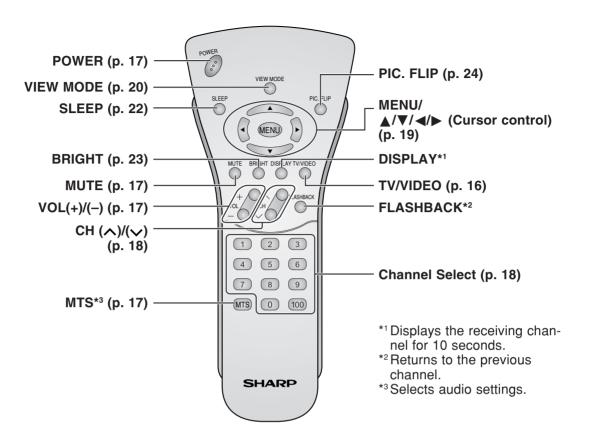
5 Once EZ SETUP is completed, the lowest channel number memorized will be displayed.

2

NOTE

- Do not let the EZ SETUP screen remain unattended for a long time.
- If EZ SETUP does not memorize all the channels in your region, please refer to pages 29 and 30 for more information on manually memorizing the channels using CHANNEL SETTING.
- It may be difficult to preset when the broadcasting signals are weak, the channel cycle frequency is incorrect or the frequency jamming is occurring around the area. Please refer to pages 29 and 30 for more information on manually memorizing channels using CHANNEL SETTING.

REMOTE CONTROL



BASIC OPERATION

This product is factory set to comply with the TV broadcasting system in the United States. For Brazil, Argentina and Uruguay, set the color system according to the country before using this product by following the table below.

Country	TV broadcasting	Factory setting	User setting	
Country	system	TV	Video	TV/Video
U.S.A.	Color: NTSC TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Not required or N/A
Canada, Mexico,	Color: NTSC	NTSC (N358)	NTSC (N358)	Not required or N/A
Latin America	TV ch: US ch	US ch	US ch	
Brazil	Color: PAL-M	NTSC (N358)	NTSC (N358)	Set color system to
	TV ch: US ch	US ch	US ch	PAL-M (see page 27)
Argentina,	Color: PAL-N	NTSC (N358)	NTSC (N358)	Set color system to PAL-N (see page 27)
Uruguay	TV ch: US ch	US ch	US ch	

NOTE >

[•] The 3 Dimensional Y/C separation circuit* only works when the color system is set to N358 in TV mode and Video mode.

^{*}The 3 Dimensional Y/C separation circuit is used to remove flickering and color bleeding.

BASIC OPERATION (Continued)

Turning on POWER

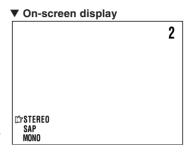
Control section of main unit



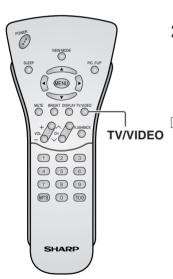
- 1 Press MAIN POWER, located on the upper side of the main unit, to on.
- 2 The POWER indicator instantaneously changes from red to green and the main unit is turned on.

NOTE

 The On-screen indicator disappears after a few seconds.



Switching TV/VIDEO [AV1/AV2/COMPONENT/TV] Modes

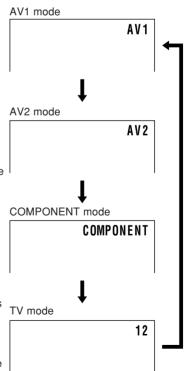


- 1 Turn on the power of the connected video equipment.
- Press TV/VIDEO and select the applicable input source. The screen displays AV1, AV2, COM-PONENT or TV mode each time TV/VIDEO is pressed.

NOTE >

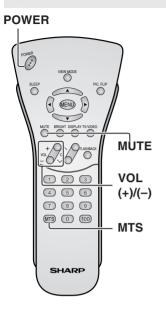
- The AV input mode indication remains for 3 seconds.
- AV1: Video equipment connected to the AV-IN1 input terminals.
 An S-video input terminal is additionally provided for the AV-IN1 input. If both the S-video terminal and normal video terminals are connected with cables, the S-video input terminal takes priority.
- AV2: AV2 mode is used to adjust the preset settings and IN or OUT can be selected. AV2 indication is not displayed when OUT is selected. (For details on setting AV2 IN/OUT, see page 28.)
- COMPONENT:

Video equipment connected to the COMPONENT input terminals.



BASIC OPERATION (Continued)

Sound Volume



- 1 Press VOL (+) to increase the sound volume. The bar indicator shifts right.
- 2 Press VOL (-) to decrease the sound volume. The bar indicator shifts left.

VOLUME 50	

VOLUME 10 IIIII	 	 	

To mute the sound

- 1 Press MUTE to temporarily turn off the sound.
 The MUTE mark x is displayed for 4 seconds.
- Press MUTE or VOL (+)/(-) to turn the sound back to the previous level. The mute function is automatically turned off when any of the following buttons are pressed: POWER, VOL (+)/(-) or MTS.

VOLUME

□%

To select MTS (Multichannel TV Sound)

- 1 Press MTS to display the MTS screen.
- 2 Press MTS to select the MTS settings.

STEREO: stereo audio

SAP: second audio program MONO: monophonic audio

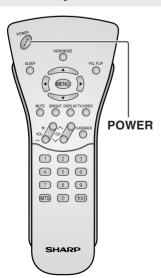
2

Destere of the same of the

NOTE >

 <ON AIR appears when a STEREO or SAP broadcast is being aired.

Standby



To turn off the LCD TV

Press **POWER** on the remote control. The POWER indicator turns red.

To turn the LCD TV back on

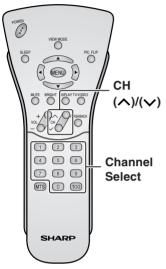
Press **POWER** again. The POWER indicator turns green.

BASIC OPERATION (Continued)

Changing Channels

Changing channels by using Channel Select on the remote control

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



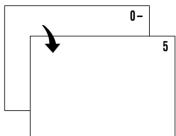
To select a 1- or 2-digit channel number (e.g., Channel 5):

Complete the following procedure within 4 seconds.

- 1 Press the @ button.
- 2 Press the ⑤ button.

NOTE >

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



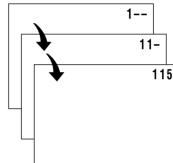
To select a 3-digit channel number (e.g., Channel 115):

Complete the following procedure within 4 seconds.

- **1** Press the @ button.
- 2 Press the ① button.
- **3** Press the ⑤ button.

NOTE >

 The 3-digit channel number can be selected only when the receiving mode is set to CABLE in CH-SETTING. (For details on setting the receiving mode, see page 29.)



Changing channels with CH $(\land)/(\checkmark)$ on the remote control

Air Press **CH** (^) and the channels change in the order shown below:

$$2 \rightarrow 3 \rightarrow \ldots \rightarrow 68 \rightarrow 69 \rightarrow 2 \rightarrow 3 \rightarrow \ldots$$

Press **CH** (**∨**) and the channels change in the order shown below:

$$3 \rightarrow 2 \rightarrow 69 \rightarrow 68 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow \ldots$$

Cable Press CH (^) and the channels change in the order shown below:

$$1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots \rightarrow 125 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots$$

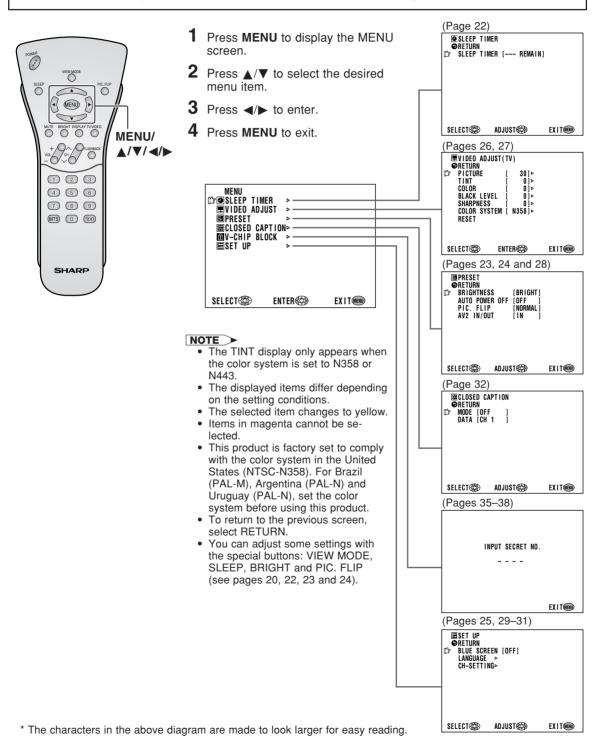
Press **CH** (\checkmark) and the channels change in the order shown below:

$$3 \rightarrow 2 \rightarrow 1 \rightarrow 125 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$$

SELECTING MENU ITEMS

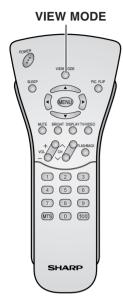
Selecting Menu Items

 This LCD TV set allows you to adjust the various settings using the menu screen. Select the desired menu item by following the steps below and then refer to the indicated page for details.



Adjusting VIEW MODE Settings

You can directly change the size of the picture by pressing VIEW MODE on the remote control.

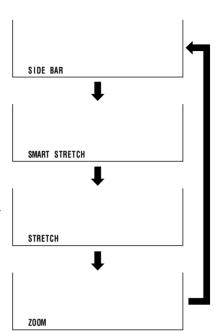


- 1 Press VIEW MODE to display the VIEW MODE screen.
- 2 Press VIEW MODE to change the setting. Change the setting as shown below.

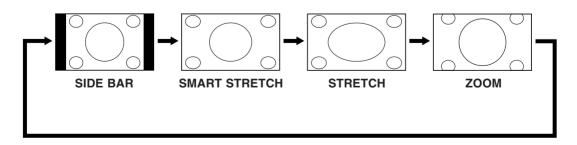
SIDE BAR→SMART STRETCH—ZOOM←—STRETCH←

NOTE

 The VIEW MODE screen automatically disappears in 3 seconds.



Selected item	Description
SIDE BAR	Suitable for viewing conventional 4:3 programs in their normal format.
SMART STRETCH	Suitable for stretching 4:3 programs to fill the 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.
ZOOM	Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.

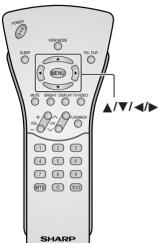


NOTE

CAPTION or TEXT cannot be displayed while ZOOM is selected in VIEW MODE.
 Selecting ZOOM in VIEW MODE while CLOSED CAPTION is set to CAPTION or TEXT will display "CC CANNOT BE USED IN ZOOM MODE PLEASE SELECT ANOTHER VIEW TO SEE CC". In this case, select another view.

Moving the Picture on the Screen

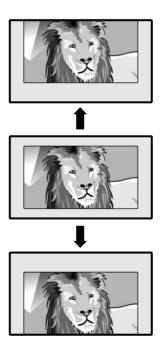
You can move the picture upwards or downwards on the screen.



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

NOTE

 This setting cannot be stored. Once the LCD TV shuts down or enters standby mode, the setting is erased. To move the picture upwards or downwards on the screen again, you must perform the above procedure again.



Adjusting SLEEP TIMER Settings

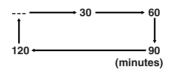
You can set the SLEEP TIMER to automatically turn off the TV.

MENU F **SLEEP** (3) 4 5 6 7 8 9 MTS 0 (100)

SHARP

Directly setting the SLEEP TIMER

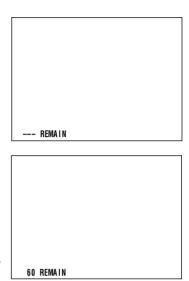
- Press **SLEEP** to display the SLEEP TIMER screen.
- 2 Press **SLEEP** to set the sleep timer (in minutes).

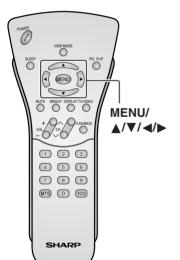


The SLEEP TIMER is turned off when --- is displayed.

NOTE >

 The SLEEP TIMER screen automatically disappears in 3 seconds.





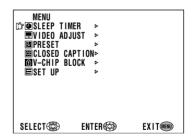
Setting the SLEEP TIMER on the MENU screen

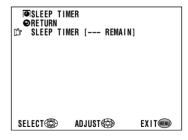
- Press MENU to display the MENU
- 2 Press ▲/▼ to move the cursor to SLEEP TIMER.
- 3 Press **◄/▶** to display the SLEEP TIMER screen.
- 4 Press
 √ to set the sleep timer (in minutes).

The time can be set in increments of 30 minutes and in the range between 30 and 120 minutes.

The SLEEP TIMER is turned off when --- is displayed.

Press MENU to return to the main screen.



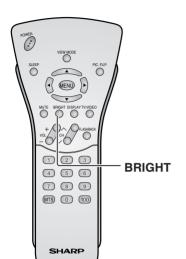


NOTE >

- When you set the SLEEP TIMER, the SLEEP indicator lights up red.
- · After you set the SLEEP TIMER, turning off MAIN POWER on the TV set or pressing POWER on the remote control will cancel the SLEEP TIMER setting and the SLEEP indicator goes out.
- 5 minutes before the SLEEP TIMER turns off the TV, 5 REMAIN is displayed on the screen for 4 seconds. The SLEEP TIMER counts down and shows a similar 4-second display for each remaining minute until the timer turns off the TV.

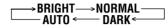
Adjusting BRIGHTNESS Settings

You can set the brightness of the screen.



Directly setting the BRIGHTNESS

- 1 Press BRIGHT to display the BRIGHTNESS screen.
- 2 Press BRIGHT to change the setting.



BRIGHTNESS [BRIGHT]

NOTE >

- The BRIGHTNESS screen automatically disappears in 3 seconds.
- [BRIGHT]: maximum brightness
- [NORMAL]: 60% brightness (Suitable for

viewing in a well-lit area. Saves energy.)

[DARK]: 10% brightness (Sufficiently

bright when viewing in dim

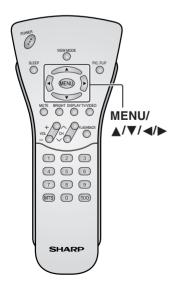
areas.)

[AUTO]: Screen brightness adjusts according to the ambient light

of the room to conserve power consumption. OPC indicator

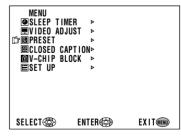
lights up green.

 When set to "AUTO", make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.



Setting the BRIGHTNESS on the MENU screen

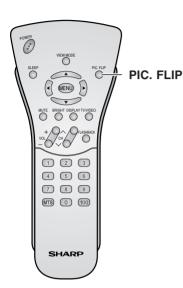
- Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to PRESET.
- **3** Press **◄/▶** to enter.
- Press ▲/▼ to move the cursor to BRIGHTNESS.
- **5** Press **◄**/**▶** to select the desired brightness setting.
- 6 Press MENU to return to the main screen.





Adjusting PICTURE FLIP Settings

You can set the orientation of the picture.

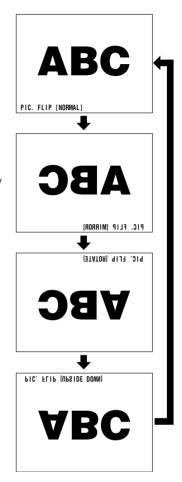


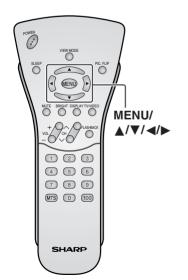
Directly setting the PICTURE FLIP

- 1 Press PIC. FLIP to display the PICTURE FLIP screen.
- 2 Press PIC. FLIP to change the setting.
- → NORMAL → MIRROR → ROTATE Upside down ←

NOTE

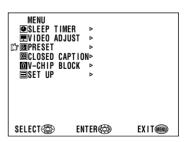
- The PICTURE FLIP screen automatically disappears in 3 seconds.
- [NORMAL]: normal image
 [MIRROR]: mirror image
 [ROTATE]: rotated image
 [UPSIDE DOWN]: upside down image

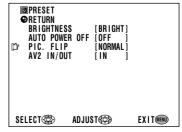




Setting the PICTURE FLIP on the MENU screen

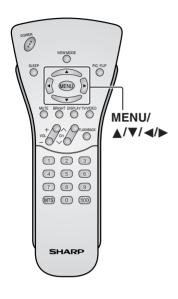
- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to PRESET.
- **3** Press **◄/▶** to enter.
- 4 Press ▲/▼ to move the cursor to PIC. FLIP.
- 5 Press ◄/► to select the desired picture flip setting.
- 6 Press MENU to return to the main screen.





Adjusting LANGUAGE Settings

The language for the On-Screen Display can be ENGLISH, SPANISH or FRENCH.



1 Press **MENU** to display the MENU screen.

MENU

DEPOSEEP TIMER >
DEVIDED ADJUST >
DEVIDED CAPTION>

MENU

☑PRESET ▷
☑CLOSED CAPTION▷

□ SET UP

SELECT (2)

SLEEP TIMER

■VIDEO ADJUST

1 V-CHIP BLOCK ▶

- 2 Press ▲/▼ to move the cursor to SET UP.
- **3** Press **◄/▶** to enter.
- **4** Press ▲/▼ to move the cursor to LANGUAGE.
- **5** Press **◄/▶** to enter.
- ■SET UP
 ●RETURN
 BLUE SCREEN [OFF]
 □ LANGUAGE >
 CH-SETTING>

 SELECT ENTER ⊕ EXIT

ENTER

EX I T MENU

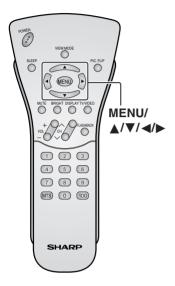
- 6 Press **▲**/**▼** to select the language.
- **7** Press **MENU** to return to the main screen.



Adjusting VIDEO ADJUST Settings

Video adjustments have different selection items depending on TV mode or AV mode (signal from an external device). (See page 27.)

1 Press MENU to display the MENU screen.

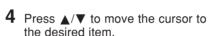


SELECT ENTER EXIT

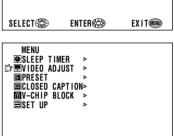
SLEEP TIMER
UIDEO ADJUST

SELECT 🚳

- Press ▲/▼ to move the cursor to VIDEO ADJUST.
- **3** Press **◄/▶** to enter.







ENTER

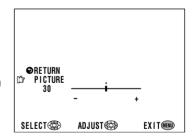
EXITMENU



6 Press **◄/▶** to change the setting.

NOTE

- · See page 27 for the settings.
- 7 Press MENU to return to the main screen.



Adjusting VIDEO ADJUST Settings (Continued)

TV mode

Selected item	Press ◀		Press ►
PICTURE	Decrease contrast	_	Increase contrast
TINT	Toward purple	■	Toward green
COLOR	Lower color intensity	<u>-</u>	Higher color intensity
BLACK LEVEL	Less brightness	<u>-</u>	More brightness
SHARPNESS	Soft picture	<u>-</u>	Sharp picture
COLOR SYSTEM	→ N358 ↔ PAL-M ↔ PA	L-N ←	

AV mode

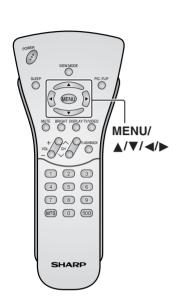
Selected item	Press ◀		Press ▶
PICTURE	Decrease contrast	_	Increase contrast
TINT	Toward purple		Toward green
COLOR	Lower color intensity	_	Higher color intensity
BLACK LEVEL	Less brightness		More brightness
SHARPNESS	Soft picture	_	Sharp picture
RED-BLUE	Stronger red		Stronger blue
GREEN	Weaker green	_	Stronger green
COLOR SYSTEM	Press ◀/▶ to select the (→ N358 ↔ N443 ↔ PAL ↔ ■ When the COMPONEN' → NTSC ↔ PAL ←	PAL-M ↔ PAL-N ↔ S	SECAM ↔ PAL60 ←

NOTE >

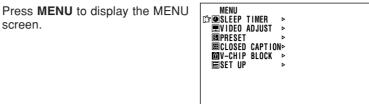
- TINT is displayed only when N358 or N443 is selected.
- In BLUE SCREEN, VIDEO ADJUST settings displayed in magenta cannot be selected.
- Selecting RESET will return all settings to the factory settings. (See page 26.)
- TV mode

This product is factory set to comply with the color system in the United States (NTSC-N358). For Brazil (PAL-M), Argentina (PAL-N) or Uruguay (PAL-N), adjust the color system before using this product.

Adjusting PRESET Settings

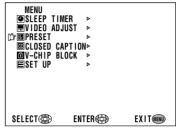


1 Press **MENU** to display the MENU



SELECT (\$\frac{1}{2})

- **2** Press $\blacktriangle/\blacktriangledown$ to move the cursor to PRESET.
- **3** Press **◄/**▶ to enter.



ENTER

EXITMENU

- **4** Press **▲**/**▼** to move the cursor to the desired item.
- **5** Press **◄**/**▶** to change the setting.
- 6 Press MENU to return to the main screen.

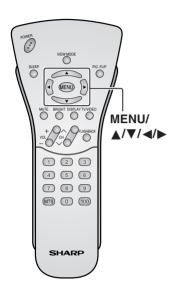


Selected item	Factory setting	Setting options
BRIGHTNESS	[BRIGHT] Maximum brightness	[NORMAL] Brightness 60% → Suitable for viewing in a well-lit area. Saves energy. [DARK] Brightness 10% → Sufficiently bright when viewing in dim areas. [AUTO] Screen brightness adjusts according to the ambient light of the room.
AUTO POWER OFF (only TV mode)	[OFF] This feature is inactive.	[ON] The power of the LCD TV set is turned off when there is no signal for 5 minutes.
PIC. FLIP	[NORMAL] Normal image orientation	[MIRROR] Mirror image → To display mirror images for special uses. [ROTATE] Rotated image → To display rotated images for special uses. [UPSIDE DOWN] Upside down image → To display images upside down for special uses.
AV2 IN/OUT	[IN] AV-IN2 terminals selected as input terminals	[OUT □] Line Output is selected, Output volume is fixed, Speaker output is available. [OUT □] Line Output is selected, Output volume is variable, Speaker output is Mute.

SET UP

■ CHANNEL SETTING

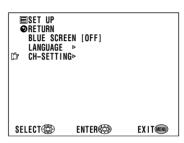
It is necessary to set the receiving mode to AIR or CABLE channels to receive locally broadcast TV programs.



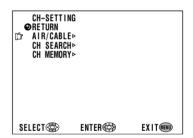
- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SET UP.
- **3** Press **◄/▶** to enter.



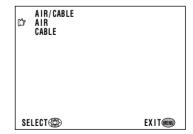
- Press ▲/▼ to move the cursor to CH-SETTING.
- **5** Press **◄/▶** to enter.



- 6 Press ▲/▼ to move the cursor to AIR/CABLE.
- **7** Press **◄/▶** to enter.



- 8 Press ▲/▼ to move the cursor to the desired mode.
- **9** Press **MENU** to return to the main screen.



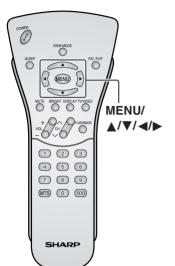
NOTE)

Receivable channels of your TV set are:
 AIR channels:

VHF: 2 through 13 UHF: 14 through 69 CABLE channels: 1 (HRC and IRC mode only) 2 through 125 (STD, HRC and IRC)

SET UP (Continued)

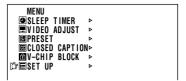
Saving broadcast TV channels in the memory



- 1 Press MENU to display the MENU screen, press ▲/▼ to move the cursor to SET UP, and press ◄/► to enter.
- 2 Press ▲/▼ to move the cursor to CH-SETTING, and press ◄/► to enter.
- 3 Press ▲/▼ to move the cursor to CH SEARCH, and press ◄/► to enter.
- 4 Press . The tuner will search through all available channels in your area and add them to the TV memory.

NOTE >

- To interrupt CH SEARCH, press
 CH SEARCH will stop at the current channel and will not add any higher channels.
- **5** Press **MENU** to exit.

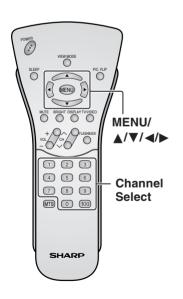


■SET UP
◆RETURN
BLUE SCREEN [OFF]
LANGUAGE ▷
□ CH-SETTING▷

CH-SETTING ◆PRETURN AIR/CABLE > CH SEARCH > CH MEMORY >



■ Adding weak or additional channels or erasing unwanted channels from TV memory

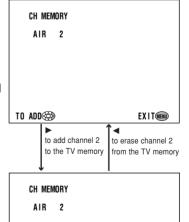


- Press MENU to display the MENU screen, press ▲/▼ to move the cursor to SET UP, and press ◄/► to enter.
- 2 Press ▲/▼ to move the cursor to CH-SETTING, and press ◀/▶ to enter
- 3 Press ▲/▼ to move the cursor to CH MEMORY, and press ◀/▶ to enter.
- 4 Use ▲/▼ or Channel Select to select each desired channel to add or erase.
- 6 Press MENU to exit.

NOTE

 If CH SEARCH is performed again, the previously memorized channels will be lost.

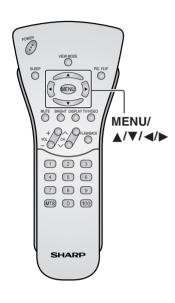
CH-SETTING
●RETURN
AIR/CABLE>
CH SEARCH>
□ CH MEMORY>



Adjusting BLUE SCREEN Settings

■ BLUE SCREEN

Automatically turns the screen blue if no broadcast signal is received.



- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SET UP.
- **3** Press **◄/▶** to enter.
- 4 Press ▲/▼ to move the cursor to BLUE SCREEN.



ADJUST 💮

EXITMENU

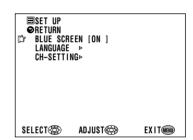
MENU ●SLEEP TIMER ■VIDEO ADJUST ■PRESET

□ SET UP

SELECT (\$\frac{1}{2})

©CLOSED CAPTION⊳

- **5** Press **◄/▶** to select ON or OFF.
- 6 Press MENU to return to the main screen.



NOTE >

- When received signals are weak or interfered with by some other signals, the BLUE SCREEN function may be activated. To watch the TV under such conditions, set BLUE SCREEN to OFF.
- The BLUE SCREEN function is activated when AV1, AV2 or COMPONENT input mode is selected with no signal being input.

Adjusting CLOSED CAPTION Settings

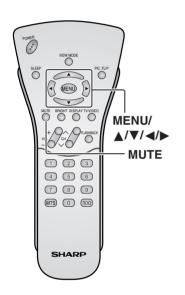
■ SETTING CLOSED CAPTION

- This TV set is equipped with an internal Closed Caption decoder. "Closed Caption" is a system which allows conversations, narration, and sound effects in TV programs and home videos to be viewed as captions on the TV screen (see the illustration).
- Not all programs and videos will offer closed captioning. Please look for the "©" symbol to ensure that captions will be shown.
- The Closed Caption broadcasts can be viewed in two modes: CAPTION and TEXT.
 For each mode, two channels are available: CH1 and CH2.

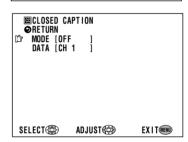
The CAPTION mode shows subscripts of dialogs and commentaries of TV dramas and news programs while allowing a clear view of the picture.

The TEXT mode displays various information over the picture (such as TV program schedules and weather forecasts, etc.) that is independent of the TV programs.





- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to CLOSED CAPTION.
- **3** Press **◄/▶** to enter.
- 4 Press ▲/▼ to move the cursor to MODF or DATA.



5 Press
/▶ to change the CLOSED CAPTION setting.

MODE:



DATA:



©CLOSED CAPTION

◆RETURN

MODE [CAPTION]

□ DATA [CH 2]

■CLOSED CAPTION

MODE [OFF Data [CH 1

ORFTURN

6 Press MENU to return to the main screen.

NOTE

- If a broadcast contains Closed Caption data and MUTE is pressed, the set enters CAPTION mode automatically.
 Pressing MUTE again will return the set to its previous condition.
- Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are
 problems at the broadcast source. This does not necessarily indicate a problem with your set.
- If any button is pressed to call up the On-Screen Display while viewing a Closed Caption broadcast, the closed captions will disappear momentarily.
- If no TEXT broadcast is being received while viewing in the TEXT mode, the screen may become dark and blank for some programs. Should this occur, switch the Closed Caption mode to OFF.
- CAPTION or TEXT cannot be displayed while ZOOM is selected in VIEW MODE.
 Using CAPTION or TEXT mode while ZOOM is selected will display "CC CANNOT BE USED IN ZOOM MODE PLEASE SELECT ANOTHER VIEW TO SEE CC". In this case, select another view.

Adjusting V-CHIP Settings

■ V-CHIP

- This function allows TV programs to be restricted and TV usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful.
- Restriction of TV programs includes two ratings that contain information about the program: the MPAA rating and the TV Parental Guidelines. The MPAA rating is restricted by age. TV Parental Guidelines are restricted by age and content.
- Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

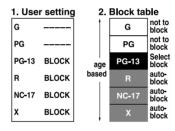
[1] MPAA RATING

RATI	NG	
	G GENERAL AUDIENCES. All ages admitted.	
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
age	PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
based	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	Х	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.

MPAA RATING

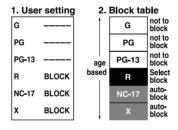
Example 1:

PG-13 in the age-based rating is blocked, this will also automatically block the higher ratings R, NC-17 and X.



Example 2:

R in the age-based rating is blocked, this will also automatically block the higher ratings NC-17 and X.



NOTE >

The MPAA rating is only age-based.

Adjusting V-CHIP Settings (Continued)

[2] TV PARENTAL GUIDELINES

RATING		FV (Fantasy Violence)	V (Violence)	S (Sexual Situation)	L (Adult Language)	D (Sexually Suggestive Dialog)
↑ age based	TV-Y (All children)	×	×	×	×	×
	TV-Y7 (Directed to Older Children)	×	×	×	×	×
	TV-G (General Audience)		×	×	×	×
	TV-PG (Parental Guidance Suggested)		×	×	×	×
	TV-14 (Parents Strongly Cautioned)		×	×	×	×
	TV-MA (Mature Audience Only)		×	×	×	

X: The content rating can be set.

TV PARENTAL GUIDELINES

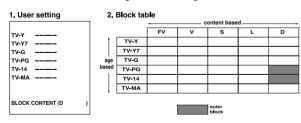
Example 1:

When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-G, TV-PG, TV-14 and TV-MA. In addition, D, L, S, V and FV in CONTENT are automatically blocked unless you manually set BLOCK CONTENT.

1. User setting TV-Y TV-Y7 BLOCK TV-G BLOCK TV-HA BLOCK BLOCK CONTENT (D L S V FV) TV-Y7 Select block Block

Example 2:

When no item in the age-based rating is blocked, D in the content-based rating will be automatically blocked.



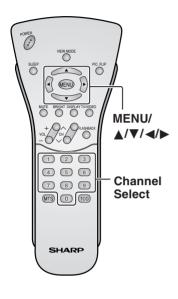
NOTE >

- Age-based ratings can be modified by the content-based ratings, but only in the combinations indicated by an X in the table above.
- · Choosing a lower age-based rating blocks the higher age-based ratings regardless of content rating settings.
- If you set TV-Y and TV-Y7 to BLOCK, CONTENT will display all items.

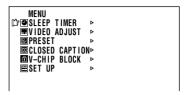
Adjusting V-CHIP Settings (Continued)

■ SETTING V-CHIP

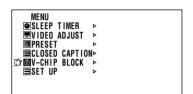
[1] MPAA RATING



1 Press **MENU** to display the MENU screen.



Press ▲/▼ to move the cursor to V-CHIP BLOCK, and press ◀/▶ to enter.

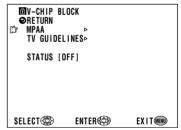


3 INPUT SECRET NO. will display. Input a 4-digit secret number by using Channel Select.

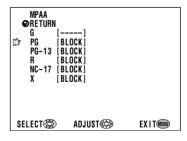
NOTE >

- When you input the secret number for the first time, press MENU to register. Otherwise, continue to step 4.
- 4 Press ▲/▼ to move the cursor to MPAA, and press ◄/► to enter.





Fress ▲/▼ to move the cursor to PG, and then press ◄/► to select BLOCK. If you set PG to BLOCK, PG-13, R, NC-17 and X are automatically blocked.



6 Press MENU to return to the main screen.

NOTE >

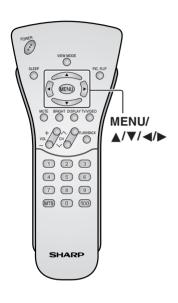
- If you set G to BLOCK, all ratings are automatically blocked.
- If you set X to BLOCK, G, PG, PG-13, R and NC-17 are not blocked.

ADJUSTMENTS (Continued)

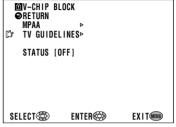
Adjusting V-CHIP Settings (Continued)

[2] TV GUIDELINES

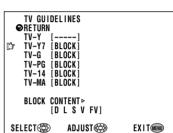
Setting TV GUIDELINES



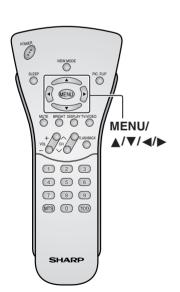
- Repeat steps 1 to 3 of [1] MPAA RATING. (See page 35.)
- 2 Press ▲/▼ to move the cursor to TV GUIDELINES.
- **3** Press **◄/▶** to enter.



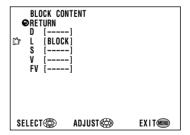
- 4 Press ▲/▼ to move the cursor to TV-Y7, and press **◄/**▶ to select BLOCK. If you set TV-Y7 to BLOCK, TV-G, TV-PG, TV-14 and TV-MA are automatically blocked. In addition, D, L, S, V and FV in CONTENT are automatically blocked.
- Press **MENU** to return to the main screen.



Setting BLOCK CONTENT



- Press ▲/▼ to move the cursor to BLOCK CONTENT, and press √ to enter.
- 2 Press ▲/▼ to move the cursor to the desired item, and press to select BLOCK or ---- (unblock).
- TV GUIDELINES **⊕**RETURN TV-Y ŤŸ-Ÿ7 TV-G TV-PG TV-14 TV-MA BLOCK CONTENT ► **EXIT**MENU SELECT (2) **ENTER**



3 Press MENU to return to the main screen.

NOTE >

 If you set TV-14 to BLOCK, TV-MA is automatically blocked. Contents D, L, S and V are automatically blocked by X in the table on page 34.

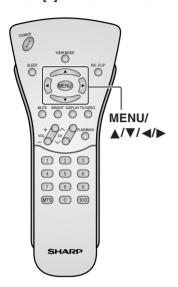
ADJUSTMENTS (Continued)

Adjusting V-CHIP Settings (Continued)

[3] ACTIVATING V-CHIP BLOCK

Setting STATUS

You can activate V-CHIP BLOCK after setting [1] MPAA RATING and/ or [2] TV GUIDELINES.



- 1 Repeat steps 1 to 3 of [1] MPAA RATING.
- 2 Press ▲/▼ to move the cursor to STATUS.
- **3** Press **◄/▶** to set STATUS to ON.
- ©V-CHIP BLOCK

 RETURN

 MPAA

 TV GUIDELINES>

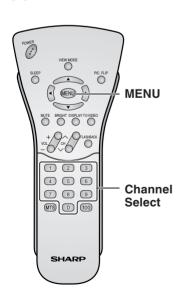
 □ STATUS [ON]

 SELECT ENTER EXIT

NOTE >

- If STATUS is set to OFF, V-CHIP BLOCK will not be activated.
- 4 Press MENU to return to the main screen.

[4] CANCELING THE V-CHIP BLOCK SCREEN WHILE V-CHIP BLOCK IS ACTIVATED

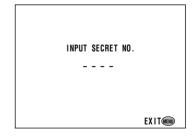


1 V-CHIP HAS BEEN ACTIVATED appears if you watch a program with the same Program Rating data you configured.

NOTE >

- V-CHIP HAS BEEN ACTIVATED will not be displayed if STATUS is not configured to ON.
- 2 Press MENU to display INPUT SECRET NO..
- 3 Input the 4-digit secret number by using Channel Select; V-CHIP BLOCK is temporarily canceled. If you input an incorrect secret number, SECRET NO. IS INCORRECT is displayed. In this case, input the correct secret number.





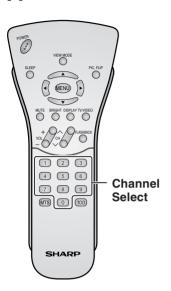
NOTE

- If you turn the power on from off, V-CHIP BLOCK will be activated again.
- If you select V-CHIP BLOCK again by using MENU, V-CHIP BLOCK will be turned on again.

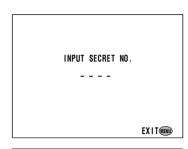
ADJUSTMENTS (Continued)

Adjusting V-CHIP Settings (Continued)

[5] CHANGING V-CHIP BLOCK SETTINGS



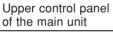
- 1 Repeat steps 1 to 2 of [1] MPAA RATING, then INPUT SECRET NO. will be displayed.
- 2 Input the 4-digit secret number by using Channel Select; the V-CHIP select mode will be displayed. Set V-CHIP BLOCK again.

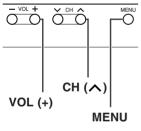




[6] CHANGING OR CLEARING THE SECRET NUMBER

If you forget the secret number, clear the secret number as follows.





- 1 Repeat steps 1 to 2 of [1] MPAA RATING, or 1 to 2 of [4] CANCELING THE V-CHIP BLOCK SCREEN WHILE V-CHIP BLOCK IS ACTIVATED, then INPUT SECRET NO. will be displayed.
- Press and hold both CH (^) and VOL (+) on the TV set simultaneously until the message INPUT SECRET NO. blinks.
- 3 Press MENU to exit.

CONNECTING EXTERNAL DEVICES

You can enjoy picture and sound by connecting a VCR or a home video game system to the terminals located on the rear of the TV set.

When connecting an external device, turn off the power of the main unit first to prevent any possible damage.

Example of external devices that can be connected

To AV-IN2 terminal

<Example>

- VCR
- · Laser disc player



To AV-IN1 terminal

- <Example>
- Video camera
- · Home video game system





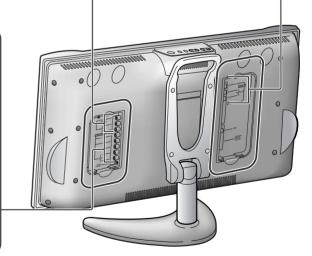
 If your external device has an S-video terminal, S-VIDEO connection is recommended.

To COMPONENT terminal

- <Example>
- · DVD Player, etc.



* If your external device has a component terminal, COMPONENT connection is recommended (you can view high-quality pictures).

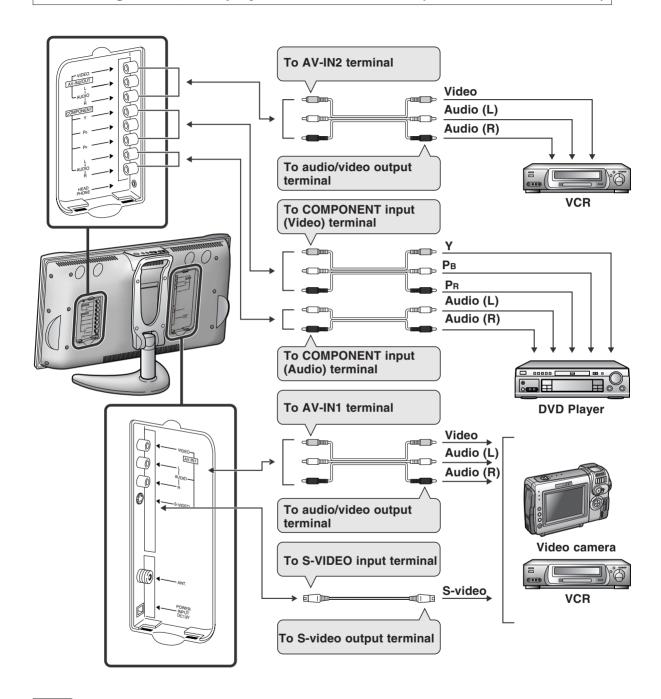


NOTE >

- PC connection is not possible.
- For the cable, use a commercially available audio/video cable.
- Only connect audio/video signals to AV-IN1 and 2 terminals. Connecting other signals may result in a malfunction.
- AV-IN1 has 2 video input terminals: VIDEO and S-VIDEO. When you connect external devices to both terminals (and if you select AV-IN1), you can only view pictures from the S-VIDEO terminal. To view the picture from the VIDEO terminal, do not connect any external device to the S-VIDEO terminal.
- · For more information about external device connections, see the manuals of your external devices.

CONNECTING EXTERNAL DEVICES (Continued)

Connecting a VCR, DVD player or a video camera (AV-IN1/2/COMPONENT)



NOTE

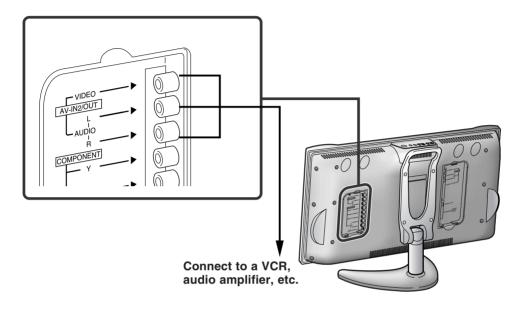
- If your VCR (or other external devices) has an S-video terminal, S-VIDEO connection is recommended. (Use an S-video cable.)
- When you connect external devices to both S-VIDEO and VIDEO terminals (and if you select AV-IN1), you can only view pictures from the S-VIDEO terminal.
- You cannot view multiple or synthesized pictures by connecting two or more external devices. When connecting
 an external device, use care to connect the video and audio cables to the corresponding terminals.

CONNECTING EXTERNAL DEVICES (Continued)

Outputting video and audio (video output)

You can output video and audio signals from the TV set through the AV output terminals (AV-OUT).

- When using AV2 as an output terminal, select PRESET in the MENU and set AV2 IN/OUT to OUT. (See page 28.)
- The factory setting for AV2 IN/OUT is IN.

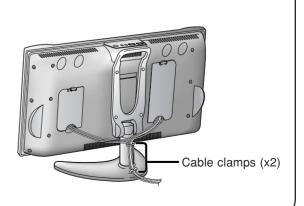


NOTE

- AV2 has 2 OUT modes (see page 28).
- When using the S-video input for AV-IN1, no video output will be made to the AV output terminal, but audio output will be made for connection to external audio systems.

Bundling Cables with Clamps

 Secure cables and cords with the supplied cable clamps so that they do not get caught when mounting the covers.



TROUBLESHOOTING

■ Before calling for repair services, make the following checks for possible remedies to the encountered symptoms.

TV set

Problem	Check item	Reference Pages
There is no picture or sound.	 Make sure the AC adapter is properly inserted in the power outlet. Reception other than those of broadcasting stations can be considered. Make sure the input mode is set to TV. Make sure the MAIN POWER switch of the main unit is on. 	10 - 16 16
There is no picture. There is no picture from AV-IN1.	 Make sure the BLACK LEVEL is properly adjusted. Fluorescent lamp may have reached the end of service life. Make sure the S-Video terminal has nothing connected. 	26, 27 44 40
There is no sound.	 Make sure the volume is not set to minimum. Make sure the sound is not set to mute. Make sure that headphones are not connected. 	17 17 13
There is no picture or sound, just noise.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	9 -
Picture is not clear.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	9 -
Picture is light or improperly tinted.	Check color adjustment. Check color system setting.	26, 27 26, 27
The picture is too dark.	 Press the BRIGHT button or set the BRIGHTNESS settings. Check PICTURE and BLACK LEVEL adjustment. Fluorescent lamp may have reached the end of service life. 	23 26, 27 44
Remote control does not work.	Check the batteries of the remote control. Make sure the remote sensor window is not under strong lighting.	8 8

TROUBLESHOOTING (Continued)

Antenna

Problem Check item	
The picture is not sharp.	 The reception may be weak. The quality of the broadcast may also be bad. Make sure the antenna is facing the right direction. Make sure the outside antenna is connected.
The picture moves.	
The picture is doubled or tripled.	Make sure the antenna is facing the right direction. There may be reflected electric waves from mountains or buildings.
The picture is spotted.	 There may be interference from automobiles, trains, high voltage lines, neon lights, etc. There may be interference between the antenna cable and AC cord. Try positioning them further apart.
There are stripes on the screen or colors fade.	 Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations, transmission antennas of amateur radios and cellular phones may also cause interference. Use the unit as far apart as possible from devices that may cause possible interference.

■ Cautions regarding use in high and low temperature environments

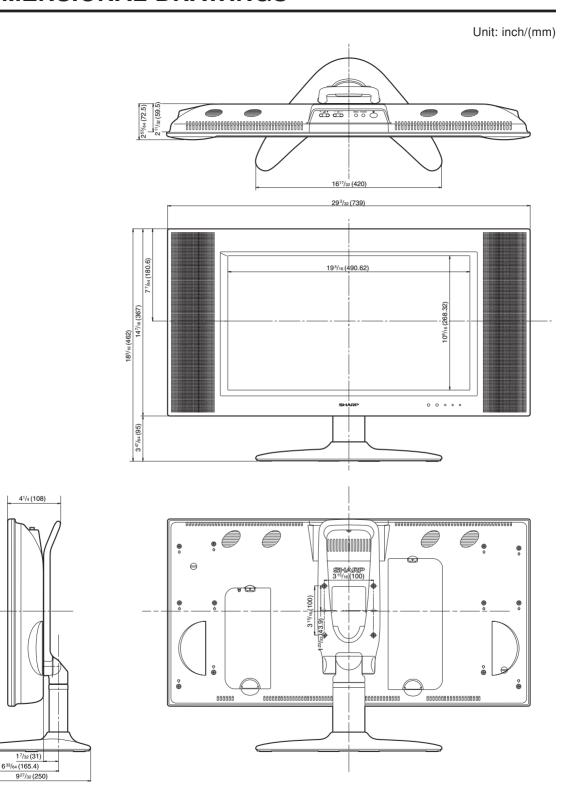
- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
 Storage temperature: -4°F to +140°F (-20°C to +60°C)

SPECIFICATIONS

Items	Mod	el LC-22SV2U	
LCD panel		22" Advanced Super View & BLACK TFT LCD	
Number of dots		1,229,760 dots WVGA	
Video color systems		N358, N443, PAL, PAL-M, PAL-N, SECAM, PAL-60	
TV function	Destination	USA/Latin America/Taiwan	
	TV Standard (CCIR)	NTSC/PAL-M/PAL-N	
	TV Tuning System	PLL 181 ch.	
	STEREO	MTS+SAP	
	CATV	125 ch.	
3 Dimensional Y/C separation circuit		Yes (N358 only)	
Digital comb filter		Yes	
Brightness		430 cd/m ²	
Lamp life		60,000 hours	
Viewing angles		H: 170° V: 170°	
Audio amplifier		2.5 W × 2	
Speakers		ø2 in. (5 cm), 2 pcs.	
Terminals	AV-IN1	AV-IN1, S-VIDEO-IN	
	AV-IN2	AV-IN2/AV-OUT	
	COMPONENT	COMPONENT-IN, AUDIO-IN	
	Antenna	F-Type	
	Headphone	Mini-jack for stereo (ø 3.5 mm)	
OSD language	e	English/French/Spanish	
Power supply		DC 13 V, AC 110-240 V, 50/60 Hz	
Power consumption		62 W (0.8 W Standby): AC 120 V (with AC adapter)	
		55W: DC 13 V	
Weight		20.5 lbs. (9.3 kg), w/o accessories	
Accessories		Remote control, Batteries (x2), Antenna cable, AC adapter, AC cord, Cable clamps (x2), Operation Manual	

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

DIMENSIONAL DRAWINGS



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

END-USER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first end user 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.

To the extent permitted by applicable state law, the warranties set forth herein are in lieu of, and exclusive of, all other warranties, express or implied. Specifically, ALL OTHER WARRANTIES OTHER THAN THOSE SET FORTH ABOVE ARE EXCLUDED. ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY. FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. If, under applicable state law, implied warranties may not validly be disclaimed or excluded, the duration of such implied warranties is limited to the period(s) from the date of purchase set forth below.

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 limits on warranties or on remedies for breach in certain transactions; in such states, the limits herein may not apply.

Model Specific Section

Your Product Model Number & Description: LC-22SV2U LCD Color Television

(Be sure to have this information available when you need service for

vour Product.)

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

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

Where to Obtain Service:

None

From a Sharp Authorized Servicer located in the United States.

To find the location of the nearest Sharp Authorized Servicer, call

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

What to do to Obtain Service: Ship prepaid or carry in your Product to a Sharp Authorized Servicer.

Be sure to have **Proof of Purchase** available. If you ship the Product,

be sure it is insured and packaged securely.

TO OBTAIN PRODUCT INFORMATION, CALL 1-888-LCD-SHARP OR VISIT www.sharpusa.com



SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

SHARP CORPORATION



LIMITED WARRANTY

Consumer Electronics Products

Congratulations on your purchase!

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

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

This warranty shall not apply to:

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

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

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

WARRANTY PERIODS:

Parts & Labour (exceptions noted) **Audio Products** 1 year Camcorder 1 year **DVD Products** 1 year LCD Projector (lamp 90 days) 1 year LCD TV 1 year Microwave Oven 2 years (magnetron component-3 additional years) 1 year Television Products (picture tube component-1 additional year) VCR Product 1 year Vacuum Cleaner 1 year

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

For more information on this Warranty, Sharp Extended Warranty Offers, Sharp Canada Products, Accessory Sales, Dealer or Service Locations, please call (905) 568-7140

Visit our Web site: www.sharp.ca





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