

LC-22SV6U

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





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

NOM 1245





LC-22SV6U

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.



CALITION

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

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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 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 Liquid Crystal Television, 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 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 Liquid Crystal panel breaks.



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



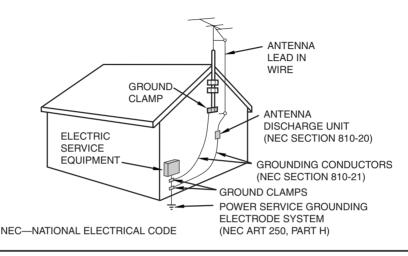
■ The Liquid Crystal panel is a very high technology product with 1,229,760 thin film transistors, giving you fine picture details.

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.

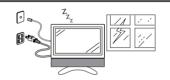
IMPORTANT SAFETY PRECAUTIONS (Continued)

■ 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



■ Lightning – 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.



■ 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.



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.

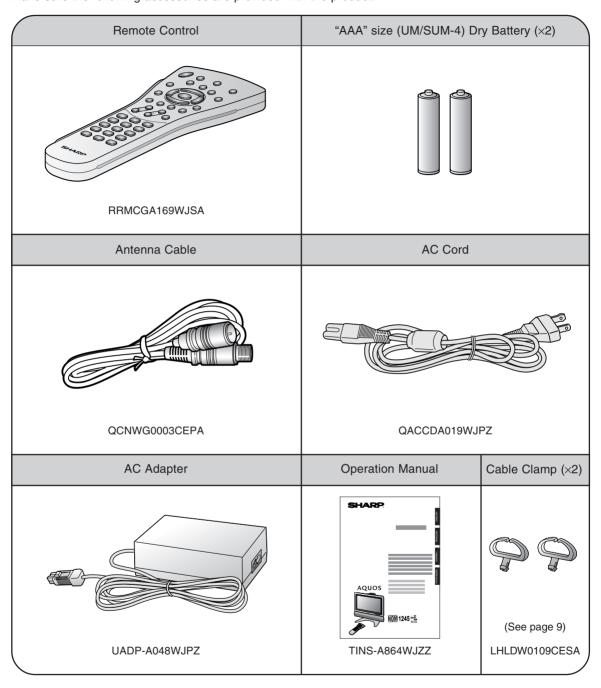


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SUPPLIED ACCESSORIES

Make sure the following accessories are provided with the product.



NOTE

 AC cord enclosed in this product is an object for 110-125V. In using it on the 125-240V AC, please consult to the following.

SHARP ELECTRONICS CORPORATION

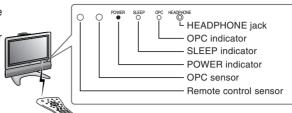
1300 Naperville Drive, Romeoville, Illinois 60446-1091, U.S.A. TEL: 630-226-2400

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

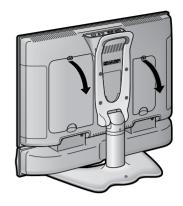
Improper use of batteries can result in chemical leakage and/or explosion. Be sure to follow the instructions below.

- 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)

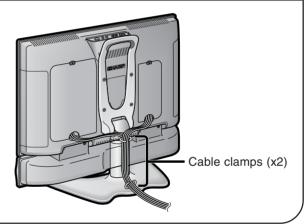
Removing the Terminal Covers

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



Bundling Cables with Clamps

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

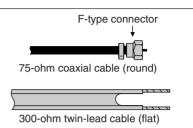


PREPARATION (Continued)

Antenna Connection

ANTENNAS

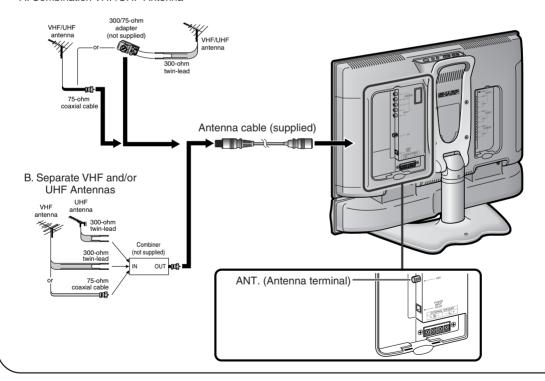
- The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended. The following is a brief explanation of the type of connections that are provided with the various antenna
 - 1. 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).
 - 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 (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 ANT. (Antenna terminal) on the rear of the TV set.

A. Combination VHF/UHF Antenna





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

(The breaking of internal circuit, etc.)

PREPARATION (Continued)

Antenna Connection (Continued)

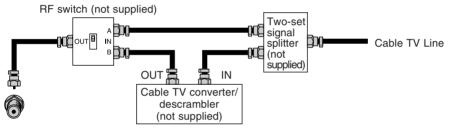
CABLE TV (CATV) CONNECTION

- A 75-ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75-ohm 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.

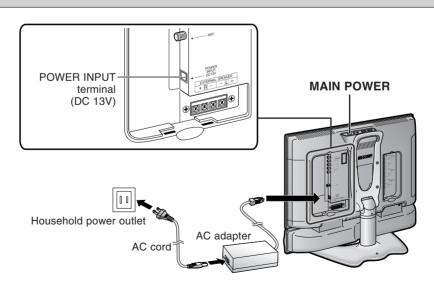
"B" position on the RF switch (not supplied): You can view the scrambled channels via the converter/descrambler by using the converter's channel keys.



NOTE

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

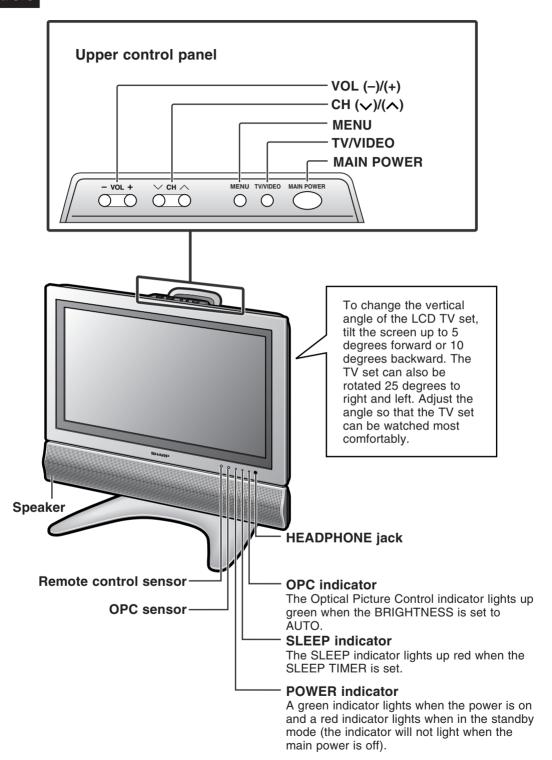
Power Connection



NOTE

- 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.

Controls

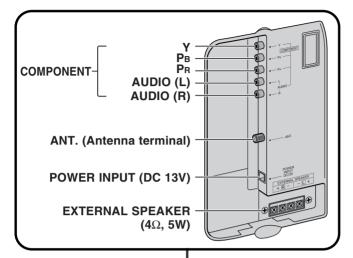


NOTE

• 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



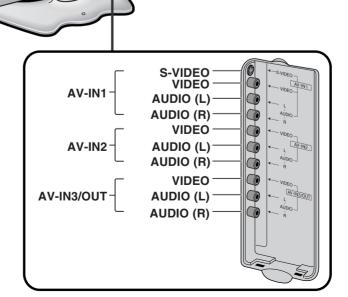
Adjusting the screen view angle



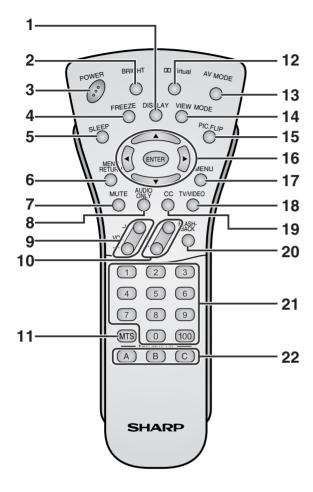
Hold the carrying handle and tilt the screen while steadying the stand with your other hand.

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





REMOTE CONTROL



* Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories

1 DISPLAY

Display the channel and time information. Display the receiving channel for 10 seconds.

2 BRIGHT (p. 28)

Adjust the brightness of the screen.

3 POWER (p. 21)

Switch the Liquid Crystal Television power on or off.

4 FREEZE (p. 55)

Freeze the screen image.

5 SLEEP (p. 27)

Set the sleep timer.

6 MENU RETURN (p. 24)

Return to the previous screen.

7 MUTE (p. 22)

Mute the sound.

8 AUDIO ONLY (p. 30)

Output audio without screen image.

9 VOL (+)/(-) (p. 22)

Set the volume.

10 CH (△)/(✓) (p. 23) Select channel.

Select channel

11 MTS (p. 22)

Select audio settings.

12 **D** Virtual* (p. 37)

Select VIRTUAL DOLBY SURROUND settings.

13 AV MODE (p. 55)

Select preferred AV MODE.

14 VIEW MODE (p. 25)

Select preferred screen image size.

15 PIC. FLIP (p. 29)

Set the orientation of the picture.

16 ENTER/▲/▼/◄/▶ (Cursor control)

Select a desired item on the screen.

17 MENU (p. 24)

Display the menu screen.

18 TV/VIDEO (p. 21)

Select a Liquid Crystal Television input source.

19 CC (p. 46)

Display Closed Caption subtitles.

20 FLASHBACK (p. 23)

Return to the previous channel.

21 Channel Select (p. 23)

Set the channel.

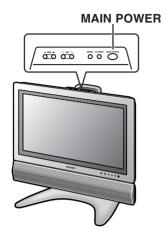
22 FAVORITE CH (p. 23 and 43)

Sets your favorite registered channels.

EZ SETUP (WITH AUTO CLOCK SETTING)

EZ SETUP during the First Power On

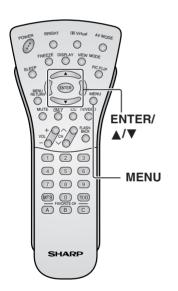
Control section of main unit



- When you turn on the TV for the first time, it will automatically memorize the broadcasting channels and clock.

 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 10.)
 - (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 11.)
- Press MAIN POWER, located on the upper side of the main unit, to turn on the TV. The SELECT LANGUAGE mode will be displayed.
- Press ▲/▼ to select "ENGLISH", "ESPAÑOL (SPANISH)" or "FRANCAIS (FRENCH)", and press ENTER.
- 3 Press ▲/▼ to select ON or OFF. When you select ON, the TV set will automatically memorize the broadcasting channels.

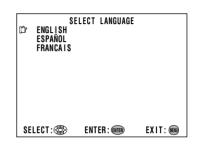
Press **ENTER** to access AUTO CLOCK mode.

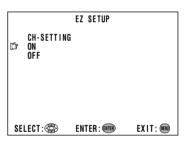


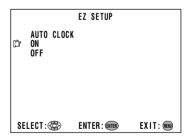


When you select ON, the TV set will automatically search the time signals (EDS signals), provided by some TV stations, to adjust the clock. The AUTO CLOCK setting may take from several minutes to an hour depending on the number of channels to receive and signal status. If you know the channel of the EDS signal carrier (PBS or other) in your area, select OFF and follow the procedure in AUTO CLOCK Setting. (See pages 17, 18)

5 Press ENTER to access EZ SETUP mode.





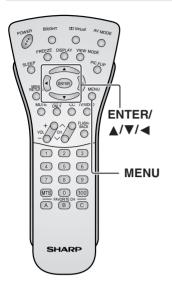


NOTE >

• If you select OFF in "EZ SETUP CH-SETTING", EZ SETUP will be canceled.

EZ SETUP (WITH AUTO CLOCK SETTING) (Continued)

EZ SETUP during the First Power On (Continued)



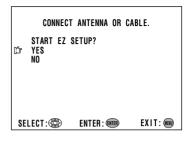
6 Press ▲/▼ to select YES, and press ENTER.

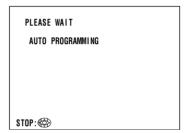
If you want to stop the EZ SETUP process once it has started, press ◀ and it will be canceled. If you want to SET UP again, please refer to pages 40 to 42 on SET UP.

To cancel EZ SETUP

Press $\blacktriangle/\blacktriangledown$ to select NO, and press **ENTER**.

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





The TV set will automatically search for EDS signals.

If EDS signals are received, the channel number and time will be displayed, and then the screen shown in step 7 appears.

PLEASE WAIT

NOW SEARCHING TIME

STOP:

STOP:

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



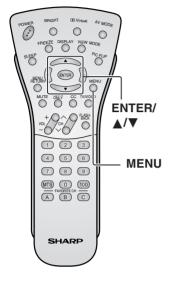
NOTE >

- 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 page 40 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 page 40 for more information on manually memorizing channels using CHANNEL SETTING.
- If there are no channels with EDS signals or the antenna signal is weak, the AUTO CLOCK Setting may not
 operate. In this case, an "EDS CH IS NOT AVAILABLE" message will display and the mode will change to
 MANUAL CLOCK Setting. Refer to page 19 to set the clock manually.

SETTING THE CLOCK

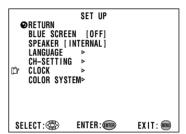
AUTO CLOCK Setting

There are two methods of setting the clock: AUTO CLOCK and MANUAL CLOCK. AUTO CLOCK uses EDS signals, which are provided by some TV stations, to automatically adjust the clock. MANUAL CLOCK set the clock manually in areas where no channel carries EDS signals.

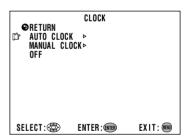


- 1 Press **MENU** to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SET UP, and press ENTER.
- 3 Press ▲/▼ to move the cursor to CLOCK, and press ENTER.





4 Press ▲/▼ to move the cursor to AUTO CLOCK, and press **ENTER**.



NOTE

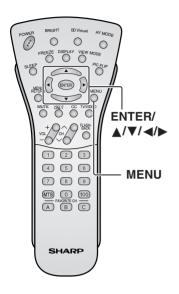
• The CLOCK can be stopped completely by setting CLOCK to "OFF".

Time reset for power outage, AC adapter disconnected

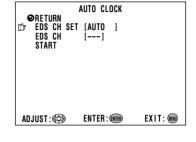
If the TV has a power outage or the AC adapter cord is disconnected, the time display will have to be reset. In that case, refer to SETTING THE CLOCK on pages 17 to 19.

SETTING THE CLOCK (Continued)

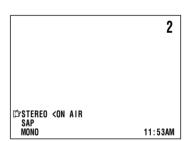
AUTO CLOCK Setting (Continued)



- Fress ▲/▼ to move the cursor to EDS CH SET, and press ENTER.
- 6 Press ◀/▶ to select AUTO or MANUAL, and press ENTER.
- 7 Press ▲/▼ to move the cursor to START, and press ENTER.







- If you do not know the channel that carries EDS signals in your area, select EDS CH SET to AUTO and select START. If you know the channel of the EDS signal carrier in your area, select EDS CH SET to MANUAL. Set the EDS CH and select START.
- When set to "AUTO CLOCK", the time is acquired automatically when MAIN POWER is turned OFF. (This function will not work when EDS CH is not set.)

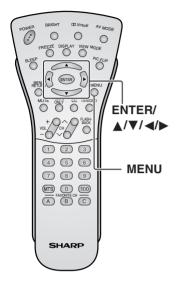
NOTE >

- CLOCK: The AUTO CLOCK Setting may take from several minutes to an hour depending on the number of channels to receive and signal status.
- If there are no channels with EDS signals or the antenna signal is weak, the AUTO CLOCK Setting may not operate. In this case, an "EDS CH IS NOT AVAILABLE" message will display, and the MANUAL CLOCK Setting screen appears. Refer to MANUAL CLOCK Setting on page 19 to set the clock manually.
- If you know the Channel of the EDS signal carrier in your area, set EDS CH SET to MANUAL and select START. In case, the message "EDS CH (XXX) EDS DATA IS NOT AVAILABLE" displays, set EDS CH SET to AUTO when the AUTO CLOCK Setting screen appears.
- If broadcasting channels are not memorized, EDS signals cannot be received even when the EDS CH SET is set to AUTO. In this case, try EZ SETUP again. (See page 40.)

SETTING THE CLOCK (Continued)

MANUAL CLOCK Setting

If there are no channels with EDS signals, set the clock manually using MANUAL CLOCK.



- 1 Press MENU to display the MENU screen
- Press ▲/▼ to move the cursor to SET UP, and press ENTER.
- Press ▲/▼ to move the cursor to CLOCK, and press ENTER.
- 4 Press ▲/▼ to move the cursor to MANUAL CLOCK, and press ENTER.

- MENU

 ②SLEEP TIMER ▷

 ②AV ADJUST ▷

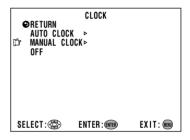
 ③PRESET ▷

 ③CLOSED CAPTION▷

 ③1-CHIP BLOCK ▷

 □FESET UP ▷
- SET UP

 PRETURN
 BLUE SCREEN [OFF]
 SPEAKER [INTERNAL]
 LANGUAGE >
 CH-SETTING >
 CH-SETTING >
 COLOCK >
 COLOCK >



- MANUAL CLOCK

 PRETURN

 TIME [12:00AM]

 DST [0FF]

 ADJUST: PROPER PROPERTY OF THE PROPERTY OF T
- **5** Press ▲/▼ to move the cursor to TIME, and press **ENTER**.
- 6 Press ◀/▶ to set the time, and press ENTER.

```
>12:00AM ← ·····→11:59AM ← 
→11:59PM ← ····→12:00PM ←
```

NOTE >

- Make sure to press ENTER after adjusting the time. Otherwise, the time will not be set.
- When DST is set to ON, the time entered is forwarded by 1 hour.
- 7 Press MENU to return to the main screen.

Daylight Saving-Time (DST) Adjustment

The Daylight Saving-Time changes as shown below, set the DST to ON to forward the clock by 1 hour. To rewind the clock by 1 hour, set the DST to OFF.

(Autumn)

(Spring) On the first Sund

On the first Sunday in April D.S.T. starts.

1:00AM 2:00AM Advances 1 hour. 3:00AM 4:00AM On the last Sunday in October D.S.T. finishes.



TV signals in your region

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, Latin America	Color: NTSC TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Not required or N/A
Brazil	Color: PAL-M TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Set color system to PAL-M (see page 42)
Argentina, Uruguay	Color: PAL-N TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Set color system to PAL-N (see page 42)

NOTE >

Turning on POWER

Control section of main unit



- 1 Press MAIN POWER, located on the upper side of the main unit, to on.
- 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.

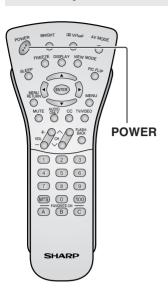
▼ On-screen display 2 ©STEREO SAP MONO

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)

Standby



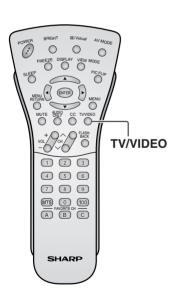
To turn off the LCD TV

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.

Switching TV/VIDEO [AV1/AV2/AV3/COMPONENT/TV] Modes

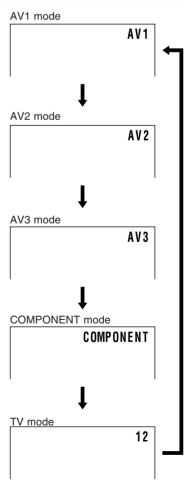


- 1 Turn on the power of the connected video equipment.
- Press TV/VIDEO and select the applicable input source. The screen displays AV1, AV2, AV3, COMPONENT or TV mode each time TV/VIDEO is pressed.

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 Svideo terminal and normal video terminals are connected with cables, the S-video input terminal takes priority.
- AV2: Video equipment connected to the AV-IN2 input terminals.
- AV3: AV3 mode is used to adjust the preset settings and IN or OUT can be selected. AV3 indication is not displayed when OUT is selected. (For details on setting AV3 IN/OUT, see pages 38 and 39.)
- COMPONENT:

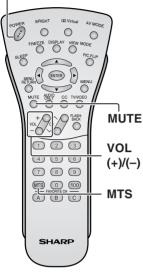
Video equipment connected to the COMPONENT input terminals



BASIC OPERATION (Continued)

Sound Volume

POWER



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.

To mute the sound

- 1 Press MUTE to temporarily turn off the sound. The MUTE mark is displayed for 4 seconds.
- 2 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.

哗			

VOL		 	
30	111111	111111111111111111111111111111111111111	

To select MTS (Multichannel TV Sound)

- 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

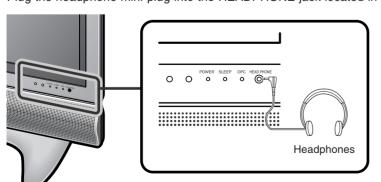
☐STEREO <ON AIR

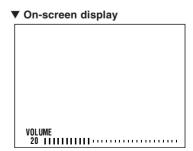
NOTE >

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

Listening with Headphones

Plug the headphone mini-plug into the HEADPHONE jack located in front of the TV set.





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

NOTE

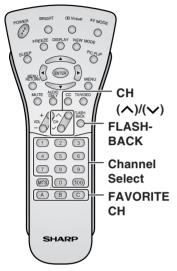
- Headphones are not included in the supplied accessories.
- No sound is heard from the main unit speakers when a headphone mini-plug is connected into the HEADPHONE jack.

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.



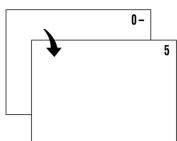
To select a 1- or 2-digit channel number (e.g., Channel 5):

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.



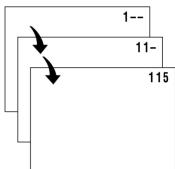
To select a 3-digit channel number (e.g., Channel 115):

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 40.)
- Press FLASHBACK to show the previous channel.



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

Air Press **CH** (\wedge) 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 $CH(\checkmark)$ 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:

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

FAVORITE CH

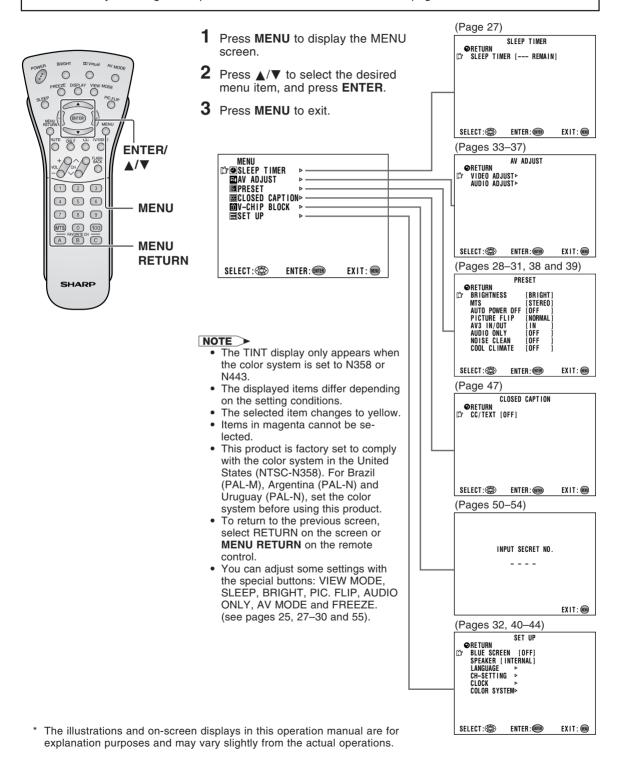
A, B, C: Select any of four preset channels. (See page 43 for details.)

While watching, you can toggle the selected channels by pressing A, B, and C.

SELECTING MENU ITEMS

Selecting Menu Items

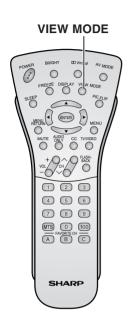
• This LCD TV set allows you to adjust the various settings using the menu screen. Select the desired menu item by following the steps below and then refer to the indicated page for details.



ADJUSTMENTS

Adjusting VIEW MODE Settings

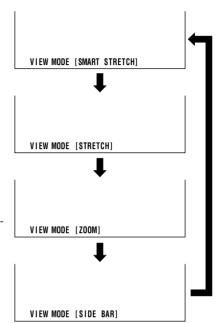
You can directly change the size of the picture by pressing VIEW MODE on the remote control.



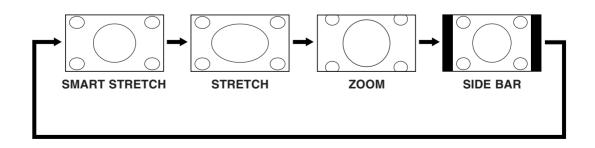
- 1 Press VIEW MODE to display the VIEW MODE screen.
- 2 Press VIEW MODE to change the setting. Change the setting as shown below.
 - SMART STRETCH→STRETCH—
 SIDE BAR ← ZOOM ←

NOTE >

 The VIEW MODE screen automatically disappears in 3 seconds.

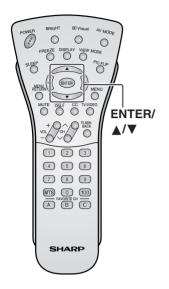


Selected item	Description
SMART STRETCH	Suitable for stretching 4:3 programs to fill the screen.
STRETCH	This mode is useful for 1.78:1 DVDs. When viewing 1.85:1 DVDs, stretch mode will still show very thin black bands at the top and bottom of the screen.
ZOOM	Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.
SIDE BAR	Suitable for viewing conventional 4:3 programs in their normal format.



Moving the Picture on the Screen

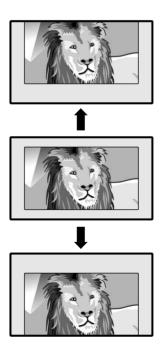
You can move the picture upwards or downwards on the screen.



Press \triangle/∇ to move an image on the screen to the desired position. Press **ENTER** 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

SLEEP

0 0 0

(2) (3)

4 5 6

7 8 9 MTS 0 100

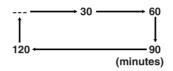
A B C

SHARP

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

Directly setting the SLEEP TIMER

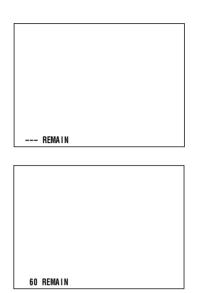
- 1 Press **SLEEP** to display the SLEEP TIMER screen.
- 2 Press SLEEP to set the sleep timer (in minutes).

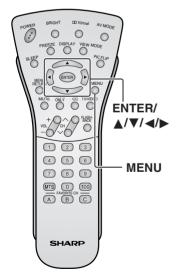


The SLEEP TIMER is turned off when --- is displayed.

NOTE

 The SLEEP TIMER screen automatically disappears in 3 seconds.





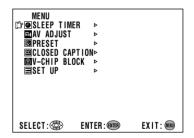
Setting the SLEEP TIMER on the MENU screen

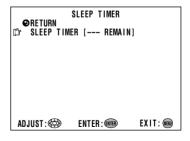
- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SLEEP TIMER.
- 3 Press ENTER to display the SLEEP TIMER screen, and press ENTER.
- 4 Press **◄/▶** to set the sleep timer (in minutes), and press **ENTER**.

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.

5 Press **MENU** to return to the main screen.



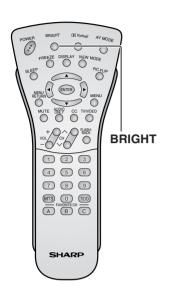


NOTE >

- 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.

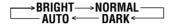
Adjusting BRIGHTNESS Settings

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.



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.)

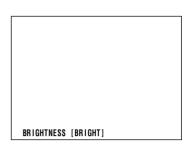
[DARK]: 10% brightness (Sufficiently bright when

viewing in dim areas.)

[AUTO]: Screen brightness

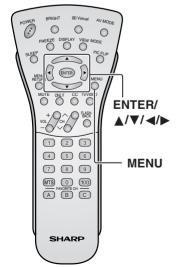
adjusts according to the ambient light of the room to conserve power consumption. OPC indicator lights up green.

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

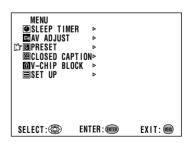




- 1 Press **MENU** to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to PRESET, and press ENTER.



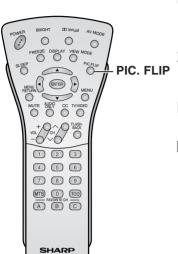
- 3 Press ▲/▼ to move the cursor to BRIGHTNESS, and press ENTER.
- 4 Press ◀/▶ to select the desired brightness setting, and press ENTER.
- 5 Press MENU to return to the main screen.



		ESET	
<u>C</u>	●RETURN BRIGHTNESS MTS AUTO POWER OFF PICTURE FILP AV3 IN/OUT AUDIO ONLY NOISE CLEAN COOL CLIMATE	[BRIGHT] [STEREO] [OFF] [NORMAL] [IN] [OFF] [OFF]	
A	DJUST: @ ENTI	ER: (NTER)	EXIT:

Adjusting PICTURE FLIP Settings

You can set the orientation of the picture.

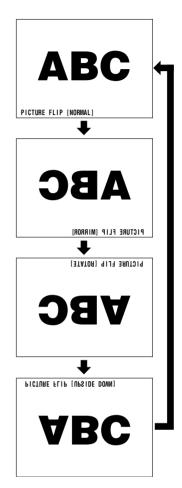


Directly setting the PICTURE FLIP

- 1 Press PIC. FLIP to display the PICTURE FLIP screen.
- Press PIC. FLIP to change the setting.
- → NORMAL → MIRROR → ROTATE UPSIDE DOWN ←

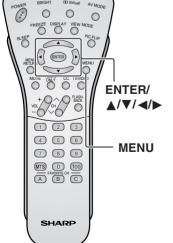
NOTE

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

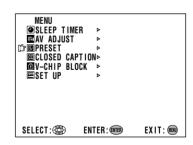




- 1 Press MENU to display the MENU screen.
- Press ▲/▼ to move the cursor to PRESET, and press ENTER.



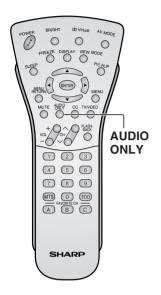
- 3 Press ▲/▼ to move the cursor to PICTURE FLIP, and press ENTER.
- 4 Press ◀/▶ to select the desired picture flip setting, and press ENTER.
- **5** Press **MENU** to return to the main screen.



PRI	ESET	
●RETURN BRIGHTNESS MTS AUTO POWER OFF IF PICTURE FLIP AV3 IN/OUT AUDIO ONLY NOISE CLEAN COOL CLIMATE	[BRIGHT] [STEREO] [OFF] [NORMAL] [IN] [OFF] [OFF]	
ADJUST: ENTI	ER: (ENTER)	EXIT: (III)

Adjusting AUDIO ONLY Settings

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



Directly setting the AUDIO ONLY

- 1 Press AUDIO ONLY. "PRESS "AUDIO ONLY" FOR VIDEO OFF" displays.
- 2 Press AUDIO ONLY again and the screen image will disappear.
- 3 Press AUDIO ONLY again and the screen image will reappear.

NOTE

- The AUDIO ONLY screen automatically disappears in 10 seconds.
- Image screen will reappear by pressing any key, except VOL +/-, DI Virtual, MUTE or MTS.

[OFF]: Both screen images and audio are output.

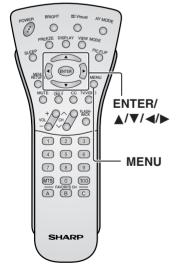
[ON]: Audio is output without screen image.





Setting the AUDIO ONLY on the MENU screen

- 1 Press **MENU** to display the MENU screen.
- Press ▲/▼ to move the cursor to PRESET, and press ENTER.



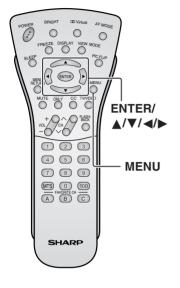
- 3 Press ▲/▼ to move the cursor to AUDIO ONLY, and press ENTER.
- 4 Press ◀/▶ to select ON, and press ENTER.
- 5 Press MENU to return to the main screen.



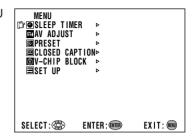


Adjusting COOL CLIMATE Settings

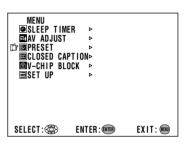
Improves the response of Liquid Crystal Panel when viewing fast-moving image. The effect is greater at low room temperatures (at or below 15°C/59°F).



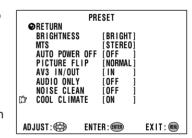
1 Press MENU to display the MENU screen.



2 Press ▲/▼ to move the cursor to PRESET, and press ENTER.



- 3 Press ▲/▼ to move the cursor to COOL CLIMATE, and press ENTER.
- **4** Press **◄**/**▶** to select ON, and press **ENTER**.
- **5** Press **MENU** to return to the main screen.

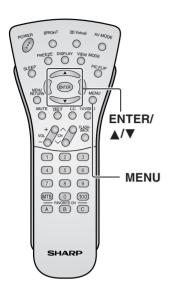


NOTE

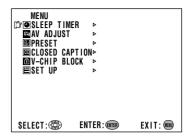
· Cool climate may cause image noise. If this occurs turn the function OFF.

Adjusting LANGUAGE Settings

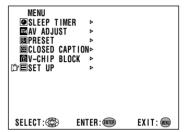
The language for the On-Screen Display can be ENGLISH, SPANISH or FRENCH.



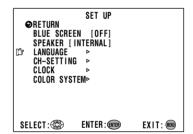
1 Press **MENU** to display the MENU screen.



Press ▲/▼ to move the cursor to SET UP, and press ENTER.



3 Press ▲/▼ to move the cursor to LANGUAGE, and press **ENTER**.



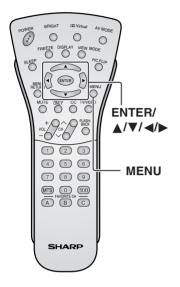
- 4 Press ▲/▼ to select the language, and press ENTER.
- **5** Press **MENU** to return to the main screen.



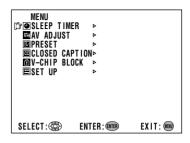
Adjusting VIDEO ADJUST Settings

Video adjustments have different selection items depending on TV mode or AV mode (signal from an external device). (See page 34.)

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



2 Press ▲/▼ to move the cursor to AV ADJUST, and press ENTER.

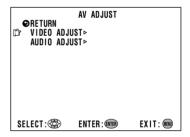


```
MENU

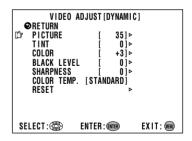
SILEEP TIMER >
SILEP TIMER >
SILEECT:

SIPRESET >
SILECT:
SIPRESET SIPRES
```

3 Press ▲/▼ to move the cursor to VIDEO ADJUST, and press ENTER.



4 Press ▲/▼ to move the cursor to the desired item, and press ENTER.



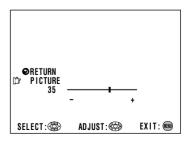
5 Press **◄/▶** to change the setting.

NOTE >

- · See page 34 for the settings.
- 6 Press MENU to return to the main screen.

NOTE

 When AV MODE is set to DYNAMIC (FIXED), "NO AV ADJUST AVAIL-ABLE" displays and VIDEO ADJUST does not work.



Adjusting VIDEO ADJUST Settings (Continued)

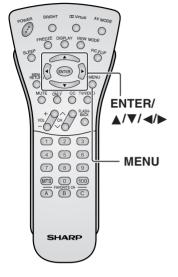
TV/AV/COMPONENT mode

Selected item	Press ◄		Press ▶
PICTURE	Decrease contrast	<u>-</u>	Increase contrast
TINT	Toward purple	□ <u></u> → □	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 TEMP.	HIGH: White MID:		white balance.
Selected item	Press A		Press ▼
RESET	YES ↔ NO ← YES: Each adjustment value and the previoous on-screen displayed.	us on-screen display le will remain the sar	will show.

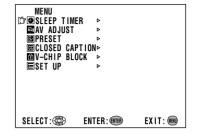
- TINT is displayed only when N358 or N443 is selected.
 - In BLUE SCREEN, VIDEO ADJUST settings displayed in magenta cannot be selected.

Adjusting AUDIO ADJUST Settings

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



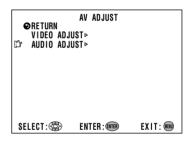
1 Press **MENU** to display the MENU screen.



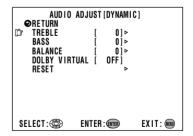
2 Press ▲/▼ to move the cursor to AV ADJUST, and press ENTER.



3 Press ▲/▼ to move the cursor to AUDIO ADJUST, and press ENTER.



Press ▲/▼ to move the cursor to the desired item, and press ENTER.



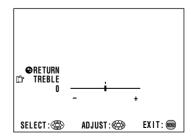
5 Press **◄/▶** to change the setting.

NOTE >

- See page 36 for the settings.
- **6** Press **MENU** to return to the main screen.

NOTE

 When AV MODE is set to DYNAMIC (FIXED), "NO AV ADJUST AVAIL-ABLE" displays and AUDIO ADJUST does not work.



Adjusting AUDIO ADJUST Settings (Continued)

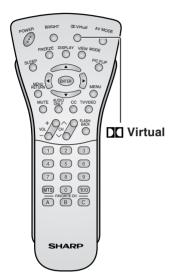
Selected item	Press ◀		Press ►
TREBLE	For weaker treble	_	For stronger treble
BASS	For weaker bass	<u>-</u>	For stronger bass
BALANCE	Decrease audio from the right speaker	 	Decrease audio from the left speaker
DOLBY VIRTUAL	→ON←→OFF←		
Selected item	Press A		Press ▼
RESET	YES ↔ NO ← YES: Each adjustment value previous on-screen dis NO: Each adjustment value screen display will show	splay will show. will remain the sar	, ,

Adjusting VIRTUAL DOLBY SURROUND Settings

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.

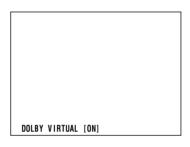
VIRTUAL DOLBY SURROUND retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.



Directly setting the VIRTUAL DOLBY SURROUND

- 1 Press DD Virtual to display the DOLBY VIRTUAL screen.
- 2 Press D Virtual to select ON.

 \rightarrow ON \Longleftrightarrow OFF \Longleftrightarrow



Setting the VIRTUAL DOLBY SURROUND on the MENU screen

- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to AV ADJUST, and press ENTER.
- MENU

 SELEEP TIMER >

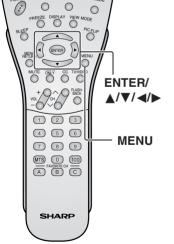
 SELECT: ENTER: MENUMENT >

 CLOSED CAPTION>

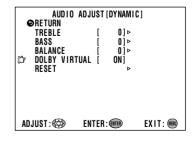
 CONTROL >

 ESET UP >

 SELECT: ENTER: MENUMENT SEXIT:

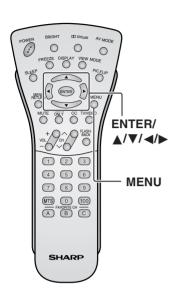


- Press ▲/▼ to move the cursor to AUDIO ADJUST, and press ENTER.
- 4 Press ▲/▼ to move the cursor to DOLBY VIRTUAL, and press ENTER.
- **5** Press **◄/▶** to select ON.
- 6 Pres MENU to return to the main screen.

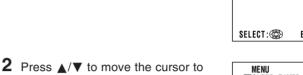


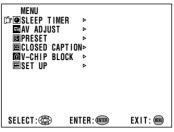
- VIRTUAL DOLBY SURROUND does not work when sound is output from the headphones.
- When OUT is selected in AV3 IN/OUT setting, VIRTUAL DOLBY SURROUND does not work.
- When ON is selected in the DOLBY VIRTUAL setting, you cannot adjust BALANCE.
- For some discs, setup may be required on your DVD. In this case, please refer to the operation manual of your DVD player.

Adjusting PRESET Settings



1 Press MENU to display the MENU screen.





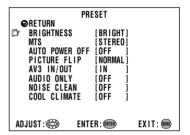


3 Press ▲/▼ to move the cursor to the desired item, and press ENTER.

PRESET, and press ENTER.

4 Press **◄/▶** to change the setting, and press **ENTER**.

- See page 39 for the settings.
- **5** Press **MENU** to return to the main screen.



Adjusting PRESET Settings (Continued)

Selected item	Factory setting	Setting options
BRIGHTNESS	[BRIGHT] Maximum 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.
MTS*	[STEREO] Stereo audio	[STEREO] Stereo audio [SAP] Secondary audio program [MONO] Monophonic audio
AUTO POWER OFF (only TV mode)	[OFF] This feature is inactive.	[OFF] This feature is inactive. [ON] The power of the LCD TV set is turned off when there is no signal for 5 minutes.
PICTURE FLIP	[NORMAL] Normal image orientation	[NORMAL] Normal image orientation ABC [MIRROR] Mirror image → To display mirror images for special uses.
		ABC
		[ROTATE] Rotated image → To display rotated images for special uses.
		[UPSIDE DOWN] Upside down image → To display images upside down for special uses.
AV3 IN/OUT	[IN] AV-IN3 terminals are selected as input terminals.	[IN] AV-IN3 terminals are 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.
AUDIO ONLY	[OFF] This feature is inactive.	[OFF] Both screen images and audio are output. [ON] Audio is output without screen image.
NOISE CLEAN	[OFF] This feature is inactive.	[OFF] Normal viewing mode. [LOW] For weaker noise clean. [HIGH] For stronger noise clean.
COOL CLIMATE	[OFF] This feature is inactive.	[OFF] Normal viewing mode. [ON] Improve the response of Liquid Crystal Panel when viewing fast-moving image.

 $^{^{\}star}\,$ In AV1, AV2, AV3 or COMPONENT mode, MTS displayed in magenta cannot be selected.

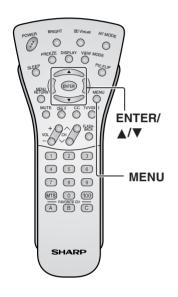
SET UP

■ EZ SETUP

When you move to an area with different broadcasting signals the set will automatically memorize the channel number and time by executing EZ SETUP again. Follow steps 1-3 below, select EZ SETUP, and then go to step 3 on page 15.

■ CHANNEL SETTING

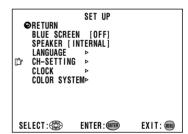
It is necessary to set the receiving mode to AIR or CABLE channels to receive locally broadcast TV programs.



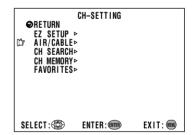
- 1 Press **MENU** to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SET UP, and press ENTER.



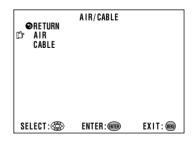
3 Press ▲/▼ to move the cursor to CH-SETTING, and press ENTER.



4 Press ▲/▼ to move the cursor to AIR/CABLE, and press **ENTER**.



- Fress ▲/▼ to move the cursor to the desired mode, and press ENTER.
- 6 Press MENU to return to the main screen.



NOTE >

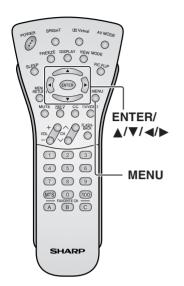
 Receivable channels of your TV set are: AIR channels:

> 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)

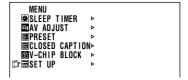
Saving broadcast TV channels in the memory



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

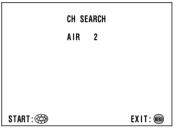
NOTE

To interrupt CH SEARCH, press
 CH SEARCH will stop at the current channel and will not add any higher channels.

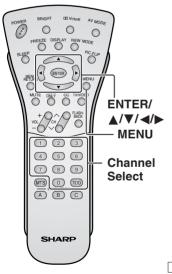








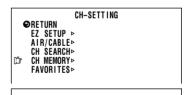
■ Adding weak or additional channels or erasing unwanted channels from TV memory



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

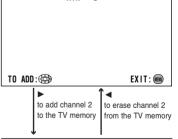
NOTE >

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



CH MEMORY

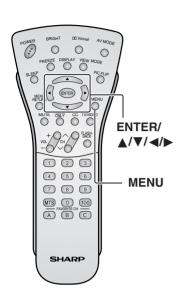
AIR 2





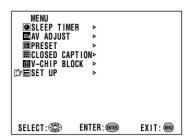
SET UP (Continued)

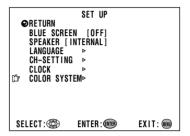
■ Adjusting COLOR SYSTEM



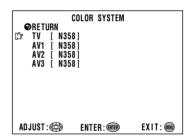
1 Press MENU to display the MENU screen, press ▲/▼ to move the cursor to SET UP, and press ENTER.

Press ▲/▼ to move the cursor to COLOR SYSTEM, and press ENTER.





- 3 Press ▲/▼ to move the cursor to the desired item, and press EN-TER.
- 5 Press MENU to return to the main screen.



TV mode

Selected item	Press ◀	Press ▶
TV	→ N358 ↔ PAL-M ↔ PAL-N ←	

AV mode

Selected item	Press ◀	Press ▶
AV1 AV2	Press ◄ / ▶ to select the COL → N358 ↔ N443 ↔ PAL ↔ PAI	.OR SYSTEM. L-M ↔ PAL-N ↔ SECAM ↔ PAL60←
AV3	■ When the COMPONENT m No display	ode is selected:

NOTE >

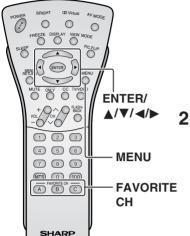
TV mode

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 FAVORITE CHANNEL Settings

This function allows you to program 4 favorite channels in each of 3 different categories (a total of 12 channels). By setting the favorite channels in advance, you can select your favorite channels easily.

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



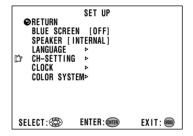
2 Press ▲/▼ to move the cursor to SET UP, and press ENTER.

3 Press ▲/▼ to move the cursor to CH-SETTING, and press ENTER.



MFNII

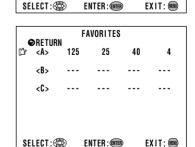




CH-SETTING

●RETURN
EZ SETUP ▷
AIR/CABLE▷
CH SEARCH▷
CH MEMORY▷
『字 FAVORITES▷

- 4 Press ▲/▼ to move the cursor to FAVORITES, and press ENTER.
- Press ▲/▼ to select the desired memory area (A to C), and press ENTER.
- **7** Press **MENU** to return to the main screen.



NOTE

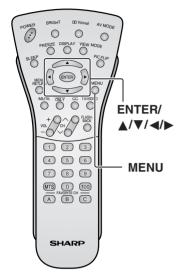
- If the channels are memorized as shown, you can toggle the assigned channels by pressing FAVORITE CH A.
- The same channel cannot be registered more than once in the same category.

Example: Cable125 → 25 → 40 → 4

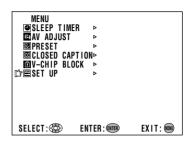
Adjusting BLUE SCREEN Settings

■ BLUE SCREEN

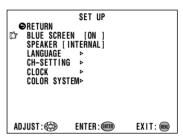
Automatically turns the screen blue if no broadcast signal is received.



- Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SET UP, and press ENTER.



- **3** Press **▲**/**▼** to move the cursor to BLUE SCREEN, and press ENTER.
- 4 Press **◄/**▶ to select ON or OFF, and press ENTER.
- Press **MENU** to return to the main screen.

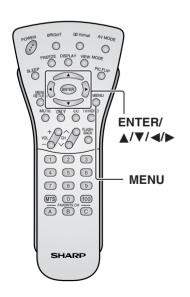


NOTE >

- 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, AV3 or COMPONENT input mode is selected with no signal being input.

Selecting Speakers

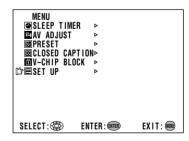
You can output audio using the supplied speakers (internal) or other external speakers.



- Press **MENU** to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to SET UP, and press ENTER.
- 3 Press ▲/▼ to move the cursor to SPEAKER, and press ENTER.
- 4 Press
 √ to select EXTERNAL or INTERNAL, and press ENTER.
- Press **MENU** to return to the main screen.

NOTE >

 See page 45 to connect external speakers.

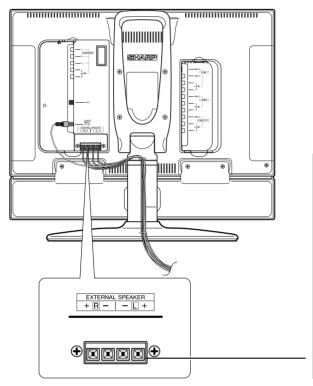




Connecting External Speakers

■ Connecting external speakers

Rear view



When using external speakers

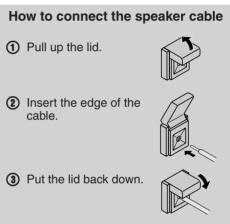
 Change the speaker setting to external speakers. (See page 44.)

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

- The speaker jacks 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 jacks with the correct cables.

NOTE >

- See page 9 for bundling the cables of the external speakers.
- Unplug the AC cord from the AC outlet before installing the speakers.
- When using the TV with the supplied stand attached, do not remove the speaker. Doing so may disturb the balance leading to product damage or personal injury.



 Bundle the cables of the external speakers with clamps as shown above.

CAUTION

- Make sure external speakers have 4 ohm and 5 watt specifications.
- Connect the plus/minus jacks with the correct cables.
 Incorrect connection may cause a short.

Adjusting CLOSED CAPTION Settings

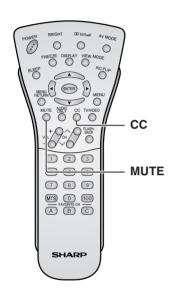
■ SETTING CLOSED CAPTION

- 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 "CC" 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.





Directly setting the CLOSED CAPTION

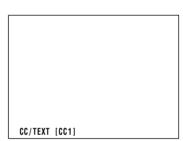
- Press CC to display the CC/TEXT screen.
- 2 Press CC to change the setting.

$$\longrightarrow \mathsf{OFF} \longrightarrow \mathsf{CC} \ \mathsf{1} \longrightarrow \mathsf{CC} \ \mathsf{2} \longrightarrow \mathsf{T1} \longrightarrow \mathsf{T2} -$$

NOTE

 CC1: CAPTION mode for CH1 data CC2: CAPTION mode for CH2 data TEXT mode for CH1 data

TEXT mode for CH2 data

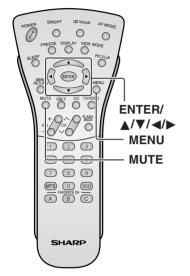


- If a broadcast contains Closed Caption data and MUTE is pressed, the set enters CAPTION mode automatically. Pressing MUTE again will return the set to its previous condition.
- · Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems 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 blank for some programs. Should this occur, switch the Closed Caption mode to OFF.

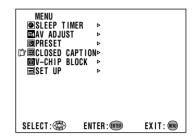
Adjusting CLOSED CAPTION Settings (Continued)

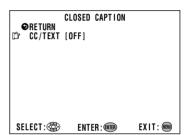
■ SETTING CLOSED CAPTION

Setting the CLOSED CAPTION on the MENU screen



- 1 Press MENU to display the MENU screen
- 2 Press ▲/▼ to move the cursor to CLOSED CAPTION, and press ENTER.
- 3 Press ENTER to change the CLOSED CAPTION setting.





4 Press **◄/▶** to change the CLOSED CAPTION setting, and press **ENTER**.

$$\longrightarrow$$
 OFF \longrightarrow CC 1 \longrightarrow CC 2 \longrightarrow T1 \longrightarrow T2 \longrightarrow

- CC1: CAPTION mode for CH1 data
 CC2: CAPTION mode for CH2 data
 T1: TEXT mode for CH1 data
 T2: TEXT mode for CH2 data
- **5** Press **MENU** to return to the main screen.



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.

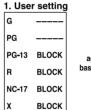
[1] MPAA RATING

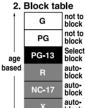
RATI	NG	
	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
age	PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
based	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	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:

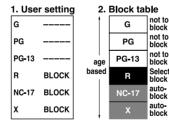
PG-13 in the age-based rating is blocked, this will also automatically block the higher ratings R, NC-17 and X.





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

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

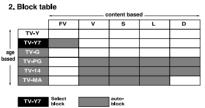
- ☑: The content rating can be set, but this rating is not normally broadcast by TV stations.
- X: The content rating can be set.

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.





Example 2:

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

TV-Y	
TV-Y7	
TV-G	
TV-PG	
TV-14	
TV-MA	

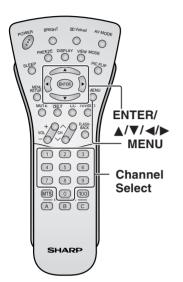
		-		content base	d	
		FV	V	s	L	D
1	TV-Y					
	TV-Y7					
age based	TV-G					
	TV-PG					
	TV-14					
	TV-MA					
				auto- block		

- 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



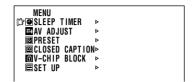
- 1 Press MENU to display the MENU screen.
- Press ▲/▼ to move the cursor to V-CHIP BLOCK, and press ENTER.
- 3 INPUT SECRET NO. will be displayed. Input the 4-digit secret number by using Channel Select, and press ENTER.

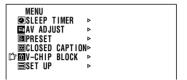
NOTE >

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

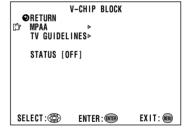
5 Press ▲/▼ to move the cursor to PG, and press ENTER.

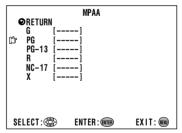
- 6 Press ◀/▶ to select BLOCK, and press ENTER. If you set PG to BLOCK, PG-13, R, NC-17 and X are automatically blocked.
- 7 Press MENU to return to the main screen.

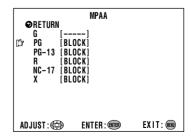












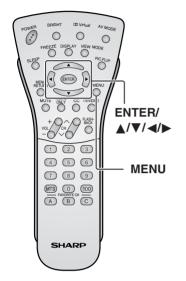
NOTE

- 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.

Adjusting V-CHIP Settings (Continued)

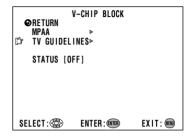
[2] TV GUIDELINES

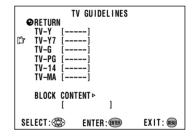
Setting TV GUIDELINES



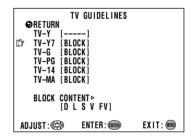
- 1 Repeat steps 1 to 3 of [1] MPAA RATING. (See page 50.)
- Press ▲/▼ to move the cursor to TV GUIDELINES, and press ENTER.





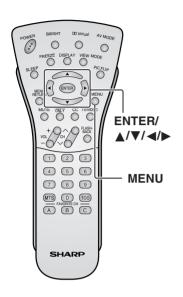


- 4 Press
 /> to select BLOCK, and press ENTER. If you set TV-Y7 to BLOCK, TV-G, TV-PG, TV-14 and TV-MA are automatically blocked. In addition, D, L, S, V and FV in CONTENT are automatically blocked.
- **5** Press **MENU** to return to the main screen.

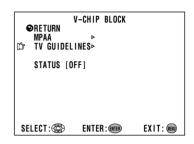


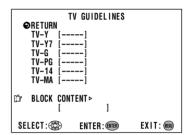
Adjusting V-CHIP Settings (Continued)

■ Setting BLOCK CONTENT

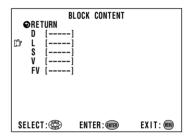


- 1 Repeat steps 1 to 3 of [1] MPAA RATING. (See page 50.)
- Press ▲/▼ to move the cursor to TV GUIDELINES, and press ENTER.
- 3 Press ▲/▼ to move the cursor to BLOCK CONTENT, and press ENTER.

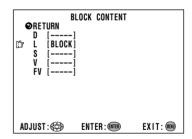




4 Press ▲/▼ to move the cursor to the desired item, and press ENTER.



- **5** Press **◄/▶** to select BLOCK or ----- (unblock), and press **ENTER**.
- 6 Press MENU to return to the main screen.



NOTE

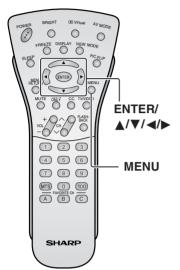
 If you set TV-14 to BLOCK, TV-MA is automatically blocked. Contents D, L, S and V are automatically blocked by X in the table on page 49.

Adjusting V-CHIP Settings (Continued)

[3] ACTIVATING V-CHIP BLOCK

Setting STATUS

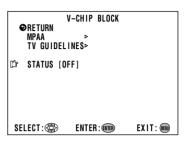
You can activate V-CHIP BLOCK after setting [1] MPAA RATING and/ or [2] TV GUIDELINES.

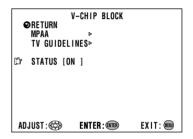


- 1 Repeat steps 1 to 3 of [1] MPAA RATING. (See page 50.)
- 2 Press ▲/▼ to move the cursor to STATUS, and press ENTER.
- **3** Press **◄/▶** to set STATUS to ON, and press **ENTER**.

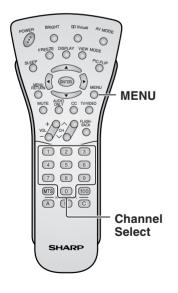
NOTE >

- 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.
- 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 INCOR-RECT is displayed. In this case, input the correct secret number.



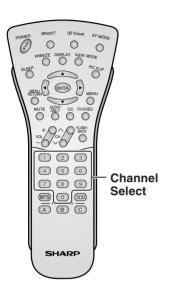


NOTE

- 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.

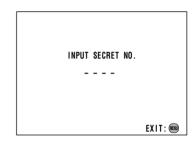
Adjusting V-CHIP Settings (Continued)

[5] CHANGING V-CHIP BLOCK SETTINGS



1 Repeat steps 1 to 2 of [1] MPAA RATING, then INPUT SECRET NO. will be displayed.

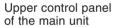
2 Input the 4-digit secret number by using **Channel Select**; the V-CHIP select mode will be displayed. Set V-CHIP BLOCK again.

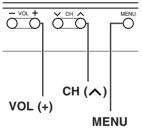




[6] CHANGING OR CLEARING THE SECRET NUMBER

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





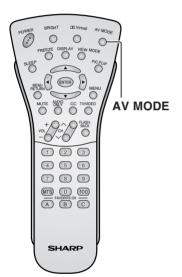
- 1 Repeat steps 1 to 2 of [1] MPAA RATING, or 1 to 2 of [4] CANCELING THE V-CHIP BLOCK SCREEN WHILE V-CHIP BLOCK IS ACTIVATED, then INPUT SECRET NO. will be displayed.
- Press and hold both CH (^) and VOL (+) on the TV set simultaneously until the message INPUT SECRET NO. blinks.
- 3 Press MENU to exit.

Adjusting AV MODE Settings

■ Adjusting AV MODE Settings

AV MODE gives you preset options to choose from to best match the image and sound based on roombrightness and playback software used.

Selected item	Description
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.
STANDARD	Changing image and sound settings to standard values.
MOVIE	Controlling the contrast to enable easier viewing of dark images.
GAME	Controlling the brightness of video games and other images for easier viewing.



1 Press AV MODE.

- Present AV MODE displays on the lower-left corner of the screen.
- 2 Before the AV MODE display disappears, press AV MODE again and select your desired settings.
 - Every time you press AV MODE, the mode changes as shown below.

→DYNAMIC (FIXED) → DYNAMIC → —GAME ← MOVIE ← STANDARD ←

NOTE >

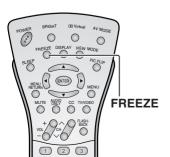
 You can select a different AV MODE item for each input mode. (For example, select STANDARD for TV input and DYNAMIC for VIDEO input.)

AV MODE [STANDARD]

 When AV MODE is set to DYNAMIC (FIXED), "NO AV ADJUST AVAIL-ABLE" displays and AV ADJUST does not work.

Using FREEZE Setting

You can freeze the image. Freezing image is convenient if you want to take a memo or check something on the display.



Freezing an image on screen

Press FREEZE.

Returning to normal view

Press FREEZE again.

NOTE >

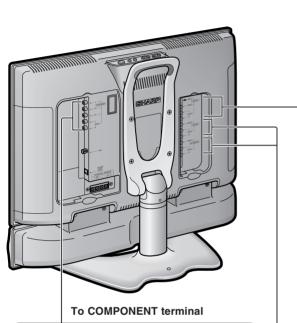
• You cannot change the screen size when a frozen image displays.

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



<Example>

DVD Player, etc.



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

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 AV-IN2/3 terminal

<Example>

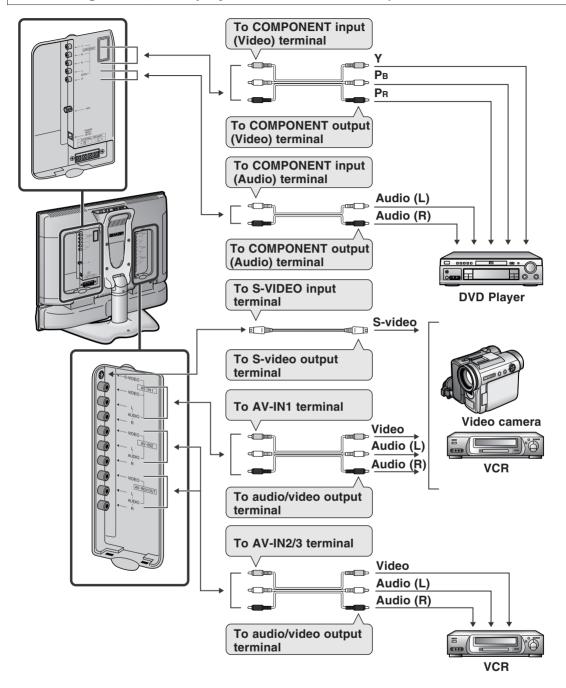
- VCR
- · Laser disc player



- PC connection is not possible.
- For the cable, use a commercially available audio/video cable.
- Only connect audio/video signals to AV-IN1, 2 and 3 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-IN1/2/3/COMPONENT)



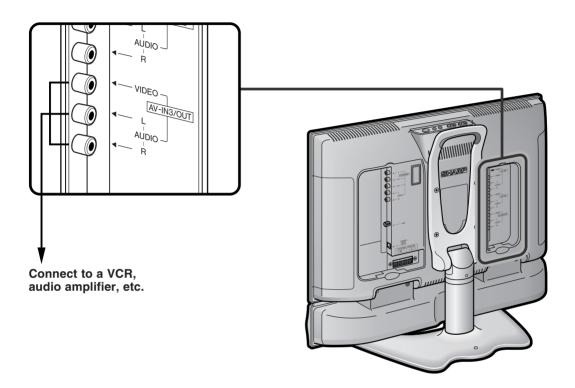
- If your VCR (or other external devices) has an S-video terminal, S-VIDEO connection is recommended. (Use an S-video cable.)
- When you connect external devices to both S-VIDEO and VIDEO terminals (and if you select AV-IN1), you can only view pictures from the S-VIDEO terminal.
- You cannot view multiple 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 AV3 as an output terminal, select PRESET in the MENU and set AV3 IN/OUT to OUT. (See pages 38 and 39.)
- The factory setting for AV3 IN/OUT is IN.



NOTE

- AV3 has 2 OUT modes (see pages 38 and 39).
- 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.

TROUBLESHOOTING

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

TV set

Problem	Check item	Reference Pages
Sound Picture 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. 	11 - 21 20
There is no picture. There is no picture is no picture from AV-IN1/2/3.	 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. Make sure the AUDIO ONLY is not set to ON. 	33, 34 61 57 30
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. Make sure that the appropriate item is selected in SPEAKER setting. 	22 22 22 24
There is no picture or sound, just noise.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	10 -
Picture is not clear.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	10 -
Picture is light or improperly tinted.	Check color adjustment. Check COLOR SYSTEM setting.	33, 34 42
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. 	28 33, 34 61
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
The clock (AUTO CLOCK) cannot be set.	 The broadcasted EDS signal may be weak. Check the antenna. Carry out EZ SETUP, SETTING THE CLOCK again. If EDS signal is not sent, set the clock using MANUAL CLOCK Setting. 	- 17–19, 40 19

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.

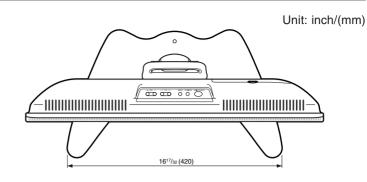
■ Cautions regarding use in high and low temperature environments

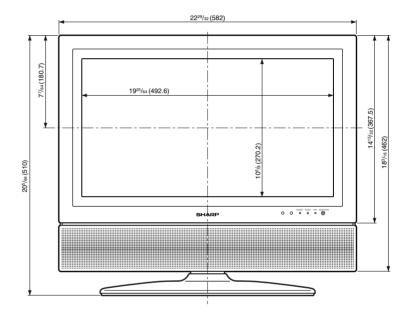
- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in 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)

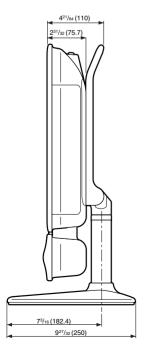
SPECIFICATIONS

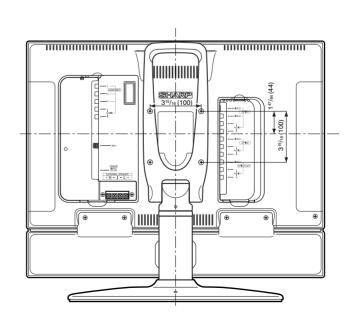
Items	Model	LC-22SV6U
LCD panel		22" Advanced Super View & BLACK TFT LCD
Number of dots 1,229,760		1,229,760 dots WVGA
Video color systems N358, N443, PAL, PAL-M, PAL-N,		N358, N443, PAL, PAL-M, PAL-N, SECAM, PAL-60
	TV Standard (CCIR)	NTSC/PAL-M/PAL-N
TV from ation	TV Tuning System	PLL 181 ch.
TV function	STEREO	MTS+SAP
	CATV	125 ch.
3 Dimensiona	al 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 amplifi	er	5 W × 2
Speakers		ø2.36 in. (6 cm), 2 pcs, Tweeter ø1 in. (2.5 cm), 2 pcs.
	AV-IN1	AV-IN1, S-VIDEO-IN
	AV-IN2	AV-IN2
	AV-IN3	AV-IN3/AV-OUT
Terminals	COMPONENT	COMPONENT-IN, AUDIO-IN
	Antenna	F-Type
	Headphone	Mini-jack for stereo (ø 3.5 mm)
	EXTERNAL SPEAKER	R (+,-), L (+,-)
OSD languag	ge	English/French/Spanish
Power supply	/	DC 13 V, AC 110-240 V, 50/60 Hz
Power consu	mption	69 W (0.9 W Standby): AC 120 V (with AC adapter)
		61W: DC 13 V
Weight		22 lbs. (10 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.









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-22SV6U 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 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



LIMITED WARRANTY

Consumer Flectronics 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.
- 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
- (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
- (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 vear Camcorder 1 year **DVD Products** 1 year Projector 1 year (lamp 90 days) LCD & Plasma Display TV 1 year Microwave Oven 1 year (magnetron component-4 additional years) **Television Products** 1 year (picture tube component-1 additional year) VCR Products 1 year Vacuum Cleaner 1 year

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

For more information on this Warranty, Sharp Extended Warranty Offers, Sharp Canada Products, Accessory Sales, Dealer or Service Locations, please call (905) 568-7140 Visit our Web site: www.sharp.ca





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