

LC-15B8U

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



AQUOS







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

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

ESPAÑOL

FRANÇAIS

LC-15B8U OPERATION MANUAL ENGLISH

IMPORTANT:

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

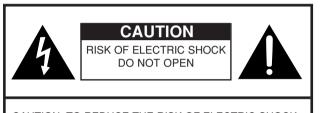
Model No.:

Serial No.:

U.S.A. ONLY

IMPORTANT INFORMATION

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



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



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



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

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

CAUTION:

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



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

U.S.A. ONLY

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

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

DEAR SHARP CUSTOMER

Thank you for your purchase of the Sharp 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 LCD color TV product, please read the following precautions carefully before using the product.

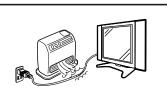
- Read instructions—All operating instructions must be read and understood before the product is operated.
- Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- Observe warnings—All warnings on the product and in the instructions must be observed closely.
- Follow instructions—All operating instructions must be followed.
- Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- AC cord protection—The AC cord must be routed properly to prevent people from stepping on it or objects from resting on it. Check the cord at the plugs and product.
- 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 AC cord from the AC outlet, and request a qualified service person to perform repairs.
 - a. When the AC 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 cord 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)

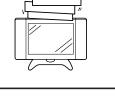
- Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a 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 921,600 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.



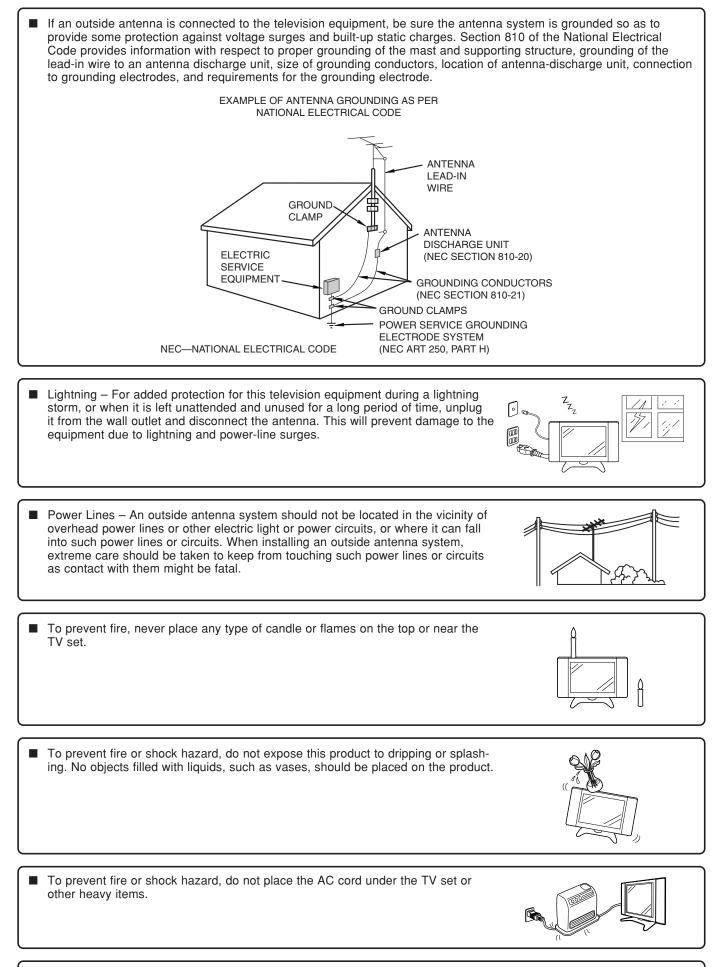








IMPORTANT SAFETY PRECAUTIONS (Continued)



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

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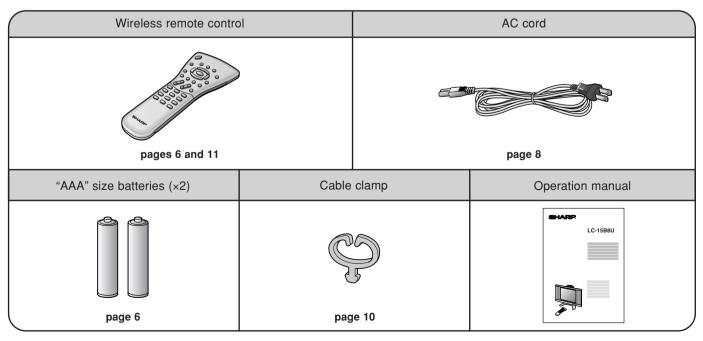
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Dimensional Drawings

• The dimensional drawings for the LCD TV set are shown on the inside back cover.

Supplied Accessories

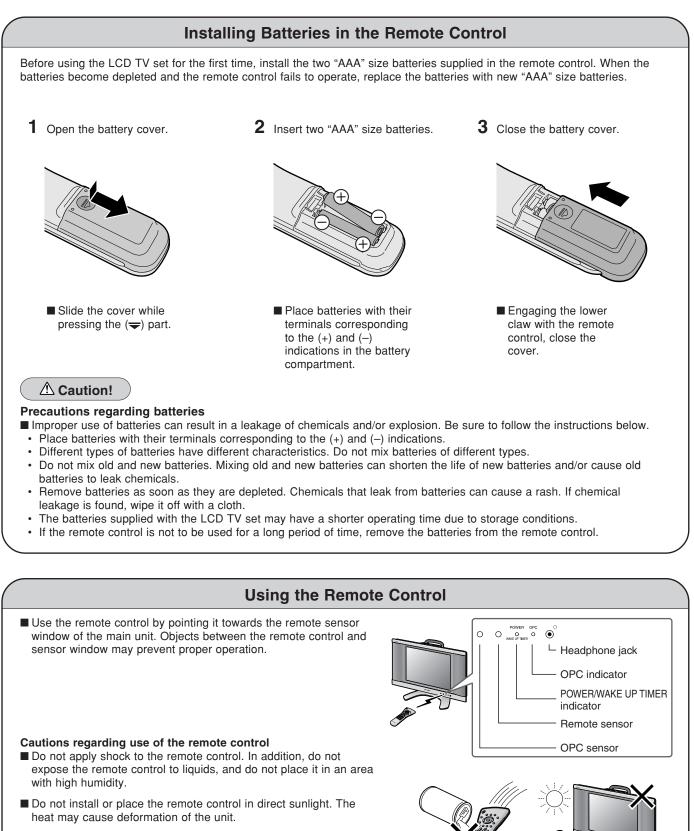
Make sure the following accessories are provided with the LCD TV set.



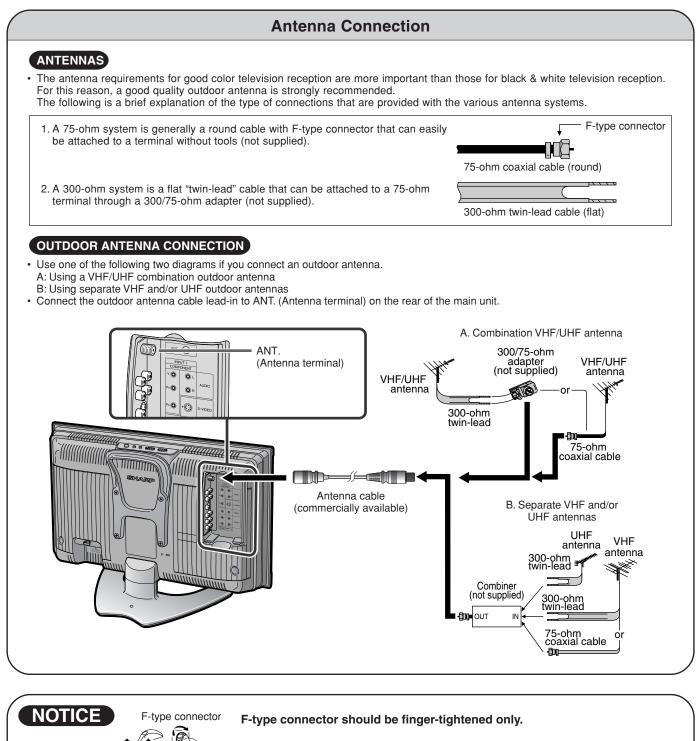
NOTE

• The AC cord enclosed in this product is for 110-125V. For using it on the 125-240V AC, please consult the following. SHARP ELECTRONICS CORPORATION 6100 Blue Lagoon Drive, Suite 230, Miami, Florida 33126, U.S.A.

Preparation

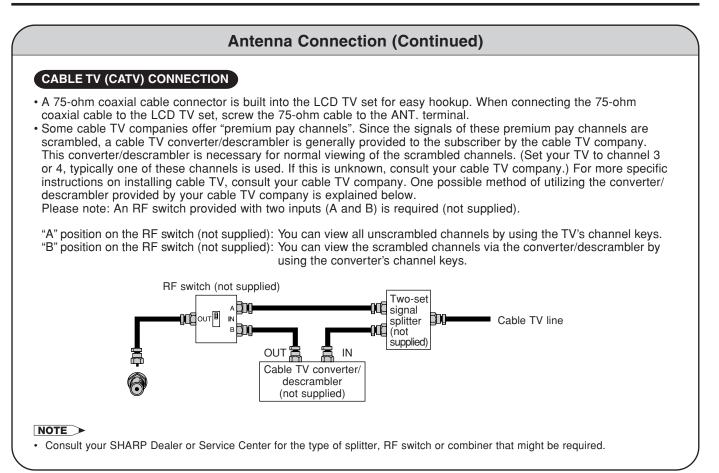


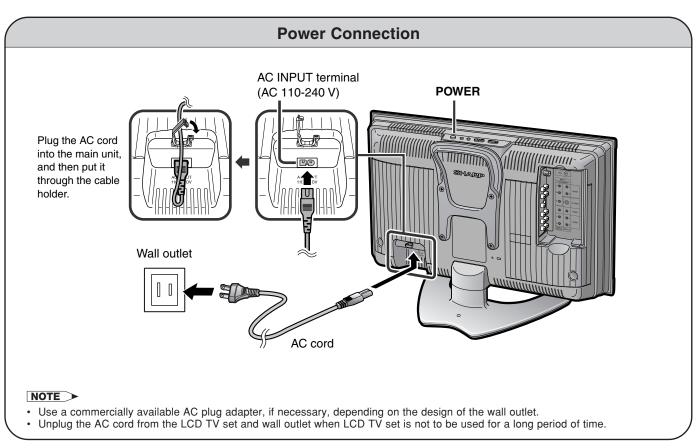
The remote control may not work properly if the remote sensor window is in direct sunlight or strong lighting. In such a case, change the angle of the lighting or main unit, or operate the remote control closer to the remote sensor window.



75-ohm coaxial cable

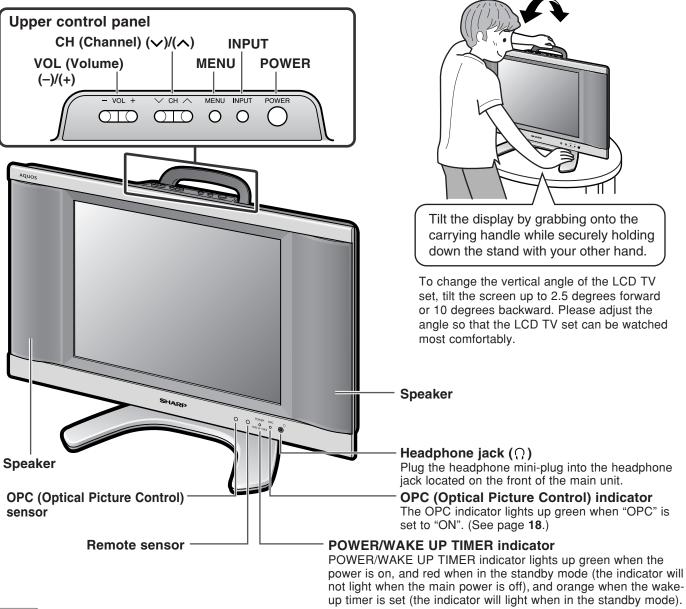
When connecting the RF cable to the LCD TV set, do not tighten F-type connector with tools. If tools are used, it may cause damage to your LCD TV set. (breaking of internal circuit, etc.)





Part Names of the Main Unit

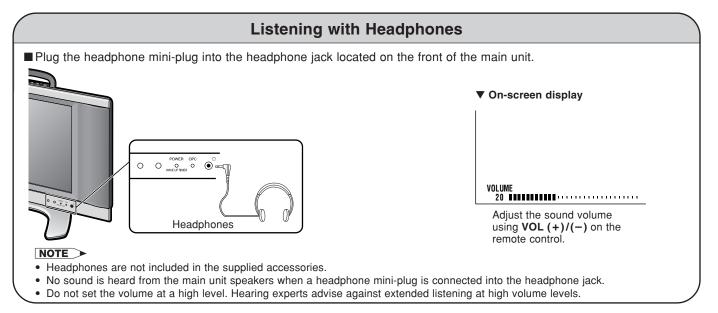
Controls

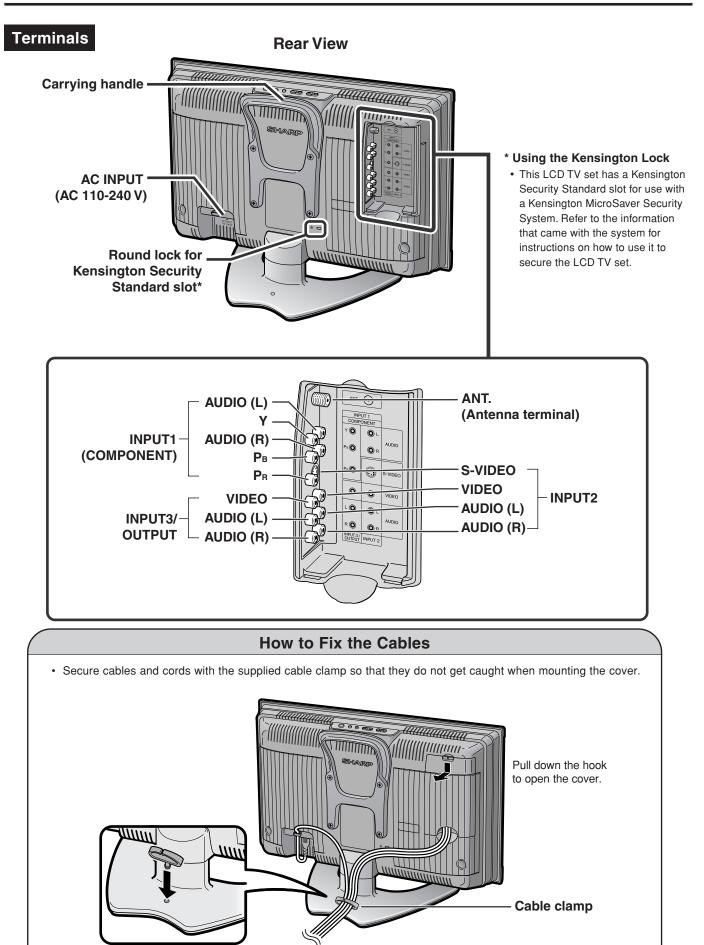


How to adjust the angle

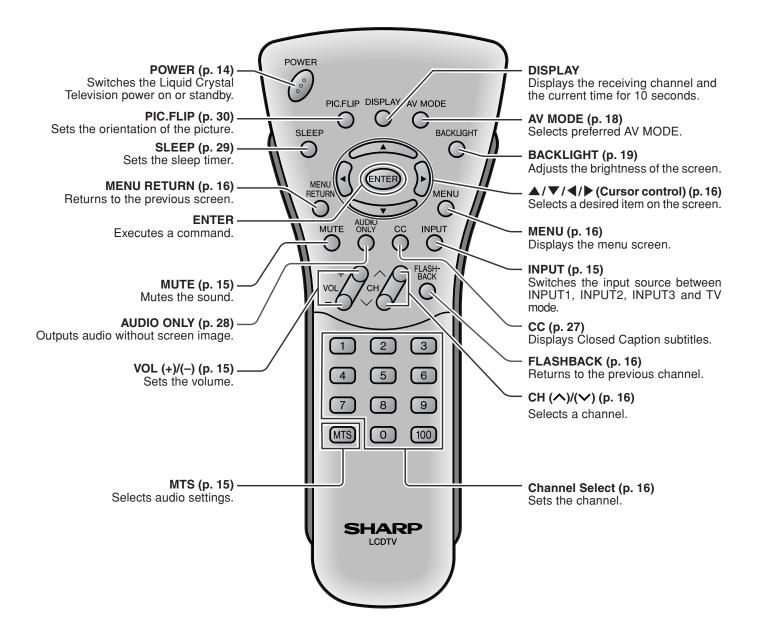
NOTE

• INPUT, CH (\>)/(\), VOL (-)/(+) and MENU on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.





Part Names of the Remote Control



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.

The VIDEO INPUT	mode is compatible	with color systems	worldwide and is auto	omatically set.

Country	TV broadcasting	Factory setting of	of color system	User setting
Country	system	TV	Video	TV
U.S.A.	Color: NTSC TV ch: US ch	NTSC (N358) US ch	World Multi Auto System	Not required or N/A
Canada, Mexico,	Color: NTSC	NTSC (N358)	World Multi	Not required or N/A
Latin America	TV ch: US ch	US ch	Auto System	
Brazil	Color: PAL-M	NTSC (N358)	World Multi	Set color system to
	TV ch: US ch	US ch	Auto System	PAL-M (see page 22)
Argentina,	Color: PAL-N	NTSC (N358)	World Multi	Set color system to
Uruguay	TV ch: US ch	US ch	Auto System	PAL-N (see page 22)

The World Multi Auto System is compatible with all color systems indicated below.

1	N358
2	N443
3	PAL
D.	

PAL-M
 PAL-N

SECAM

7 PAL-60

EZ SETUP (With AUTO CLOCK Setting)

Ο

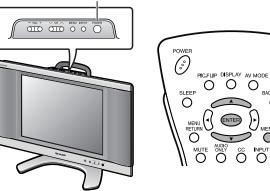
 \bigcirc

EZ SETUP during the First Power On

- When you turn on the LCD TV set for the first time, it will automatically memorize the broadcasting channels and clock.
 - Please perform the following instructions before you press POWER.
 - (1) Insert the batteries into the remote control. (See page 6.)

 - Connect the antenna cable to the LCD TV set. (See page 6.) Connect the AC cord to the AC INPUT terminal of the LCD TV set and plug in the AC cord to the wall outlet. (3) (See page 8.)





Press **POWER** on the upper side of the main unit, to turn on the TV. The SELECT LANGUAGE screen will be displayed.

Press ▲/▼ to select "ENGLISH", "ESPAÑOL" (Spanish) or "FRANÇAIS" (French).



- 2 Press ENTER to access CH-SETTING mode. Press ▲/▼ to select "ON" or "OFF". When you select "ON", the LCD TV set will automatically memorize the broadcasting channels.
 - O N OFF

NOTE >

- · If you select "OFF", EZ SETUP will be canceled.
- 3 Press ENTER to access AUTO CLOCK mode. Press ▲/▼ to select "ON" or "OFF".

When you select "ON", the LCD TV set will automatically adjust the clock to search time-signals (EDS signals), which are provided by some TV stations. 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 page 13.)



4 Press ENTER to access START EZ SETUP mode. Press \blacktriangle/∇ to select "YES", and press **ENTER**.

NOTE >

· If you want to stop the EZ SETUP process once it has started, press MENU and it will be canceled. If you want to set up again, please refer to CH-SETTING on page 21.



The tuner will automatically search for the broadcasting and cable TV channels. (The channel number will automatically increase when it appears.)

```
PLEASE WAIT
AUTO PROGRAMMING
```

The LCD TV set will automatically switch to searching for EDS signals.

If EDS signals are received, the channel number and time will be displayed, and then the screen shown in step 5 appears.

```
PLEASE WAIT
NOW SEARCHING TIME
```

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

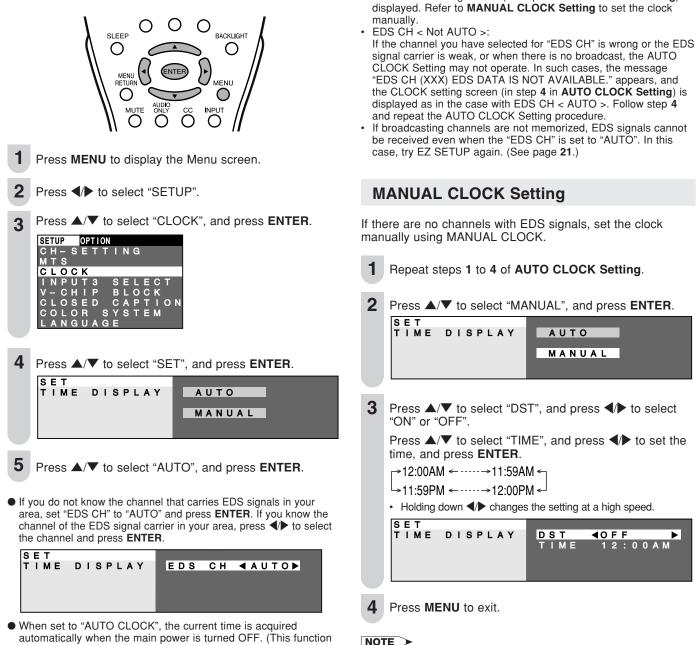


NOTE >

- 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 21 for more information on manually memorizing the channels using CH-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 21 for more information on manually memorizing channels using CH-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, the "EDS CH IS NOT AVAILABLE." message will appear and the mode will change to MANUAL CLOCK setting. Refer to page **13** to set the clock manually.

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 sets the clock manually in areas where no channel carries EDS signals.



NOTE >

· CLOCK:

EDS CH < AUTO >:

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

case, the message "EDS CH IS NOT AVAILABLE." appears, and

the CLOCK setting screen (in step 4 in AUTO CLOCK Setting) is

weak, the AUTO CLOCK Setting may not operate. In such a

will not work when EDS CH is not set.)

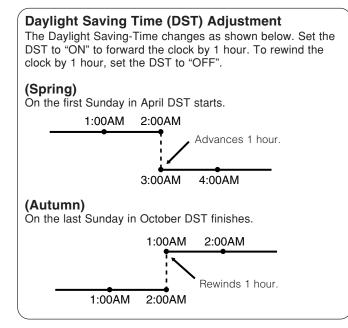
Backup

The clock function is maintained for about 5 minutes even when the AC cord has been shut off due to a power outage or when moving the LCD TV set. (Since about 30 minutes are required to charge the backup power supply, it may not be possible to maintain the clock function if the charging time is excessively short.)

If the clock setting has been reset, repeat the procedures on this page.

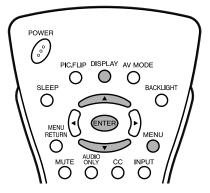
NOTE >

- 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.
- Please be sure to set "DST" before setting "TIME".



TIME DISPLAY

You can display the current time on the screen.



- 1 Repeat steps 1 to 3 of AUTO CLOCK Setting on page 13.
- **2** Press $\blacktriangle/\blacksquare$ to select "TIME DISPLAY", and press **ENTER**.



3 Press \blacktriangle/ ∇ to select "ON" or "OFF", and press ENTER.

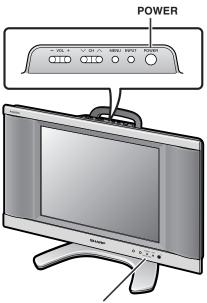
Selected item	Description
ON	Displays the current time on the screen.
OFF	No display

4 Press MENU to exit.

NOTE

• When you press **DISPLAY**, the current time is displayed for about 10 seconds.

Turning On and Off the Main Power



POWER/WAKE UP TIMER indicator

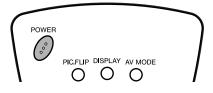
 Press POWER. The POWER/WAKE UP TIMER indicator instantly changes from red to green and the LCD TV set is turned on.

On-screen	display
STEREO SAP MONO	

NOTE

- The on-screen display disappears in a few seconds.
- To turn off the main power, press **POWER** again.

Standby



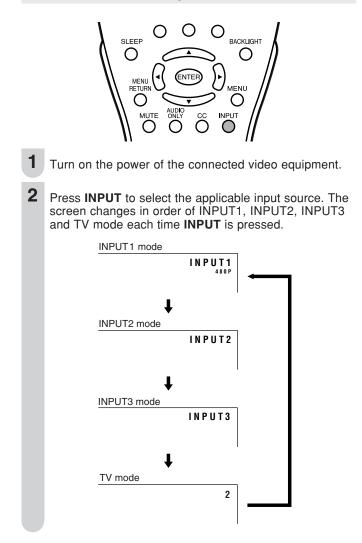
To turn off the LCD TV set

Press **POWER**. The POWER/WAKE UP TIMER indicator will turn red.

To turn the LCD TV set back on

Press **POWER** again. The POWER/WAKE UP TIMER indicator will turn green.

Switching the Input Modes (INPUT1/ INPUT2/INPUT3/TV)



NOTE

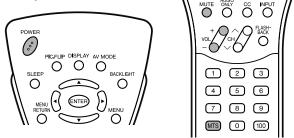
- INPUT1:
- Used for video equipment connected to the COMPONENT input terminals. • INPUT2:
 - Used for video equipment connected to the INPUT2 terminals.

The S-video input terminal is additionally provided for the INPUT2 terminal. If both the S-video terminal and normal video terminals are connected with cables, the S-video input terminal takes priority.

- INPUT3/OUTPUT:
 - INPUT3 mode is used to adjust the preset settings and IN or OUT can be selected. INPUT3 indication is not displayed when OUT is selected. (For details on setting INPUT3 SELECT, see page **22**.)

Sound Volume

■ To adjust the volume



• Press VOL (+) to increase the sound volume. The bar indicator shifts right.

Press VOL (-) to decrease the sound volume. The bar indicator shifts left.

VOLUME 10 1111111111

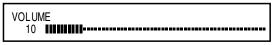
To mute the sound

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



Press MUTE or VOL (+)/(-) to turn the sound back to the previous level. The mute function is automatically turned off when any of

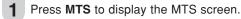
the following buttons are pressed: **POWER**, **MUTE**, **VOL** (+)/(–) or **MTS**.



NOTE

- When VOL (+)/(-) is pressed in the Mute mode, the sound turns on and the volume indicator is displayed.
- The Mute function is canceled when POWER is pressed.

■ To select MTS (Multichannel TV Sound)



2 Press MTS to select the MTS settings.

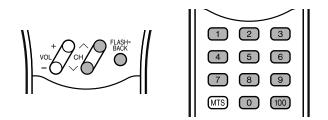
STEREO: stereo audio SAP: secondary audio program MONO: monophonic audio



NOTE

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

Changing Channels



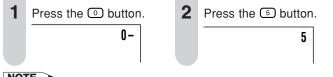
You can select channels using **Channel Select** or **CH** $(\land)/(\checkmark)$.

• 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.

Using Channel Select

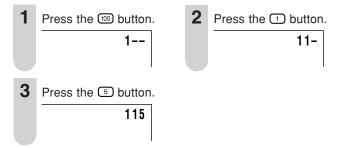
When selecting the channel using **Channel Select**, complete input of the channel number by holding down the button for the last digit for a moment.

To select a 1- or 2-digit channel number (e.g., Channel 5): Complete the following procedure within 4 seconds.



NOTE

To select a 3-digit channel number (e.g., Channel 115): Complete the following procedure within 4 seconds.



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 **21**.)

Changing channels with CH (\land)/(\checkmark) on the remote control Air: Press CH (\land) 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 (\land) 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: $3 \rightarrow 2 \rightarrow 1 \rightarrow 125 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$

Using FLASHBACK

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

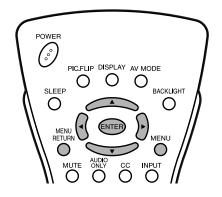
Selecting Menu Items

The menus can be used to adjust the various settings of the LCD TV set. Select the desired menu item by following the steps below. See the next page for each Menu screen.

NOTE

- · The items displayed differ depending on the setting conditions.
- The item selected is displayed in yellow.
- · Settings most recently adjusted will be saved in memory.

Using the remote control



- Press **MENU** on the remote control to display the Menu screen.
- 2 Press </br>

 Press
 - The cursor moves left or right.
 - The cursor indicates the selected menu item.
- 3 Press ▲/▼ to select the desired item, and press ◀/▶ to adjust the selected item.
 For "AV MODE", "OPC", "ADVANCED" and "RESET", press ENTER to display the setting screen.

PICTURE AUDIO	SETUP OPTION
AV MODE	[DYNAMIC]
ОРС	[OFF]
BACKLIGHT	[BRIGHT]
CONTRAST	[40]
BRIGHTNES	s i o j – – – – +
COLOR	[+ 5]+
TINT	[0] ∎ ———∎
SHARPNESS	[0]+
ADVANCED	
RESET	

Press **MENU RETURN** to return to the previous screen, or press **MENU** to exit.

Using the control panel of the main unit

You can also operate the menu with the control panel of the main unit.

Button operations on the control panel correspond to the ones on the remote control as shown below.

Control panel of the main unit



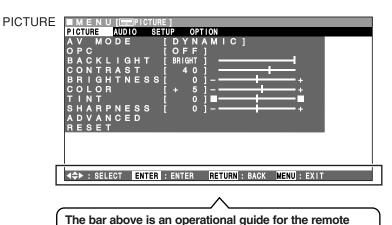
VOL (-)/(+): Cursor ◀/▷ on the remote control CH (√)/(^): Cursor ▼/▲ on the remote control MENU: MENU on the remote control INPUT: ENTER on the remote control

Menu setting screens

For details on setting each menu item, refer to the page number indicated below.

NOTE

- The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual appearance.
- Depending on the setting condition, such as an input mode, it may not be possible to adjust or set some items. In such cases, a message will be displayed on the menu setting screen.



 Page

 AV MODE
 18

 OPC
 18

 BACKLIGHT
 19

 CONTRAST
 19

 BRIGHTNESS
 19

 COLOR
 19

 TINT
 19

 SHARPNESS
 19

 ADVANCED
 20

 RESET
 19

control. The bar will change in accordance with each menu setting screen.

MEN	U [II]AUD	10]		
PICTURE	AUDIO	SETUP	OPTION	
	TREB	LE	[0]+	
	BASS		[0]+	
	BALA	NCE	[0]L————————————————————————————————————	
	RESE	т		

	Page
TREBLE	
BASS	20
BALANCE	20
RESET	

SETUP	■MENU	
	PICTURE	

AUDIO

IMENU (ESSETUP)				
ICTURE AUDIO	SETUP OPTION			
	CH-SETTING			
	мтѕ			
	CLOCK			
	INPUT3 SELECT			
	V-CHIP BLOCK			
	CLOSED CAPTION			
	COLOR SYSTEM			

CH-SETTING	
MTS	
CLOCK	
INPUT3 SELECT	22
V-CHIP BLOCK	23-26
CLOSED CAPTION	27
COLOR SYSTEM	11, 22
LANGUAGE	12, 22

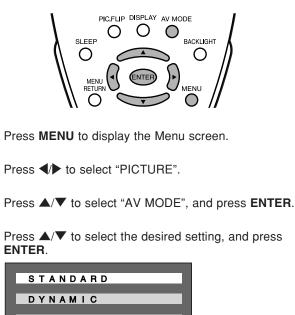
OPTION	■ M E N	U [💷 0P'	TION]	
	PICTURE	AUDIO	SETUP	OPTION
				VIEW MODE
				AUDIO ONLY
				BLUE SCREEN
				SLEEP TIMER
				WAKE-UP TIMER
				NO SIGNAL OFF
				NO OPERATION OFF
				PICTURE FLIP

	Page
VIEW MODE	
AUDIO ONLY	
BLUE SCREEN	28
SLEEP TIMER	29
WAKE-UP TIMER	29
NO SIGNAL OFF	30
NO OPERATION OFF	30
PICTURE FLIP	30

Basic Adjustment Settings

AV MODE

AV MODE gives you preset options to choose from, to best match the image based on room-brightness and playback software used.



DYNAMIC (FIXED) MOVIE GAME

5 Press MENU to exit.

NOTE

2

3

4

- You can select a different AV MODE item for each input mode. (For example, select "STANDARD" for TV input and "DYNAMIC" for VIDEO input.)
- When "AV MODE" is set to "DYNAMIC (FIXED)", "NO PICTURE ADJUSTMENTS AVAILABLE IN [DYNAMIC (FIXED)]." is displayed and the items in the PICTURE screen (except "OPC" and "ADVANCED") cannot be set.

Directly setting the AV MODE

1 Press AV MODE.

- 2 Before the AV MODE display disappears, press AV MODE again and select your desired setting.
 - Each time you press AV MODE, the mode changes as shown below.

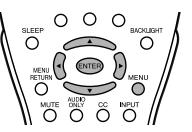
AV MODE [STANDARD] AV MODE [DYNAMIC]

AV MODE [GAME] 🔶 AV MODE [MOVIE] 🔶 AV MODE [DYNAMIC (FIXED)] 🗲

Selected item	Description
STANDARD	Changing image settings to standard values.
DYNAMIC	For a clear-cut image emphasizing high contrast for sports viewing.
DYNAMIC (FIXED)	Changing image settings to factory preset values. No adjustments are allowed.
MOVIE	Controlling the contrast to enable easier viewing of dark images.
GAME	Controlling the brightness of video games and other images for easier viewing.

OPC

Automatically adjusts the brightness of the screen.



- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "PICTURE".
- **3** Press $\blacktriangle/\blacksquare$ to select "OPC", and press ENTER.
- 4 Press \blacktriangle/∇ to select "ON" or "OFF", and press ENTER.



Selected item	Description	
ON	Automatically adjusts the brightness	
OFF	No adjustment	

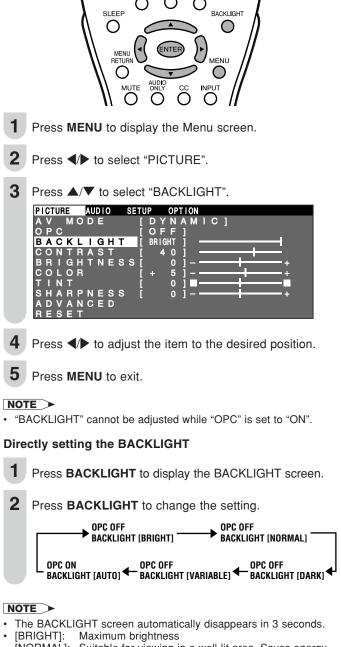
5 Press MENU to exit.

NOTE

When setting to "ON", the OPC indicator lights up green, senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

BACKLIGHT

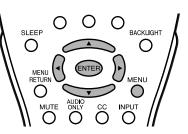
You can adjust the brightness of the picture.



- [NORMAL]: Suitable for viewing in a well-lit area. Saves energy. [DARK]: Sufficiently bright when viewing in dim areas.
- [VARIABLE]: The brightness can be adjusted to suit your preference using .
- [AUTO]: Screen brightness adjusts according to the ambient light of the room to conserve power consumption. The 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.

PICTURE Adjustments

You can adjust the picture to your preference with the following picture settings.



- 1 Press MENU to display the Menu screen.
- 2 Press ◀/► to select "PICTURE".
- Press \blacktriangle/ ∇ to select a specific adjustment item.

PICTURE AUDIO	SETUP OPTION
AV MODE	[DYNAMIC]
OPC	[OFF]
BACKLIGHT	[BRIGHT]
CONTRAST	[40]
BRIGHTNES	<u>S</u> [0]+
COLOR	[+ 5]+
TINT	[0]∎∎
SHARPNESS	[0]+
ADVANCED	
RESET	



- Press 4/ to adjust the item to the desired position.
- 5 Press **MENU** to exit.

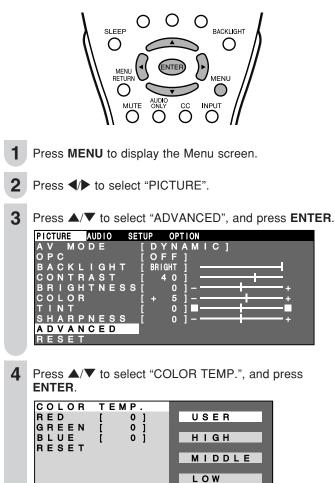
Selected item	button	▶ button
BACKLIGHT	The screen dims	The screen brightens
CONTRAST	For less contrast	For more contrast
BRIGHTNESS	For less brightness	For more brightness
COLOR	For less color intensity	For more color intensity
TINT	Skin tones become purplish	Skin tones become greenish
SHARPNESS	For less sharpness	For more sharpness

NOTE

- Select "ADVANCED", and press **ENTER** to set "COLOR TEMP.". See page **20**.
- When resetting all adjustment items (except for the items on the "AV MODE", "OPC" and "ADVANCED" menus) to factory preset values, perform the following procedure.
- Press ▲/▼ to select "RESET" in the PICTURE screen, and press ENTER.
- ② Press ▲/▼ to select "YES", and press ENTER.

COLOR TEMPERATURE

You can adjust the color temperature to give a better white balance.



- **5** Press $\blacktriangle/\checkmark$ to select the desired item, and press **ENTER**.
- 6 Press MENU to exit.

Selected item	Description	
USER	Can set your desired color*	
HIGH MIDDLE	White with bluish tone	
LOW	White with reddish tone	

* When you select "USER", the following items are adjustable.

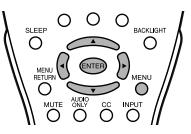
Selected item	◀ button	▶ button
RED	Weaker red	Stronger red
GREEN	Weaker green	Stronger green
BLUE	Weaker blue	Stronger blue

NOTE

- When resetting the items in the "USER" setting to factory preset values, perform the following procedure.
 - Press ▲/▼ to select "RESET" in the ADVANCED screen, and press ENTER.
 - ② Press ▲/▼ to select "YES", and press **ENTER**.

AUDIO Adjustments

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



- **1** Press **MENU** to display the Menu screen.
- 2 Press **√** to select "AUDIO".
- **3** Press \blacktriangle/ ∇ to select a specific adjustment item.

AUDIO	SETUP	OPTION
TREI	BLE	[0]
BASS	S	oj – ———————————————————————————————————
BAL	ANCE	[0]L
RESI	ЕТ	

- 4 Press **√** to adjust the item to the desired position.
- 5 Press MENU to exit.

Selected item	button	▶ button
TREBLE	For weaker treble	For stronger treble
BASS	For weaker bass	For stronger bass
BALANCE	Decrease audio from the right speaker	Decrease audio from the left speaker

NOTE

- The items on the AUDIO menu cannot be set when headphones are not used and "INPUT3 SELECT" is set to "OUT not variable" VAO".
- When resetting all adjustment items to factory preset values, perform the following procedure.
- ① Press ▲/▼ to select "RESET" in the AUDIO screen, and press ENTER.
- ② Press ▲/▼ to select "YES", and press ENTER.

CH-SETTING

■ EZ SETUP

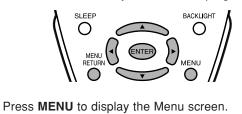
When you move to an area with different broadcasting signals, you may have to set the channel numbers and the time with the EZ SETUP function. To activate EZ SETUP, perform the following procedure.

- ① Press ▲/▼ to select "CH-SETTING" in the SETUP screen (see page 17), and press ENTER. ② Press ▲/▼ to select "EZ SETUP", and press ENTER.
- 3 Press \blacktriangle/ ∇ to select "YES", and press ENTER.

Refer to page 12 for more information on EZ SETUP.

Setting the AIR/CABLE

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





- 3 Press \blacktriangle/∇ to select "CH-SETTING", and press ENTER.
- Press \blacktriangle / \bigtriangledown to select "AIR/CABLE", and press ENTER. Δ Press \blacktriangle/∇ to select the desired setting, and press ENTER.



Press MENU to exit. 5

NOTE >

1

Receivable channels of the LCD TV set are: CABLE channels: AIR channels: VHF: 2 through 13. 1 (HRC and IRC) 2 through 125 (STD, HRC and IRC) UHF: 14 through 69.

Saving broadcast TV channels in the memory

- 1 Press MENU to display the Menu screen.
- 2 Press ◀/▶ to select "SETUP".
- 3 Press \blacktriangle/∇ to select "CH-SETTING", and press ENTER.
- 4 Press \blacktriangle/∇ to select "CH SEARCH", and press ENTER.



5 Press ENTER. The tuner will search through all available channels in your area and add them to the TV memory.

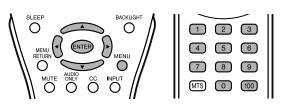
	2
▶STEREO	
S A P MONO	

NOTE >

To interrupt CH SEARCH, press MENU RETURN. 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

Individual settings of programs can be adjusted.



- 1 Repeat steps 1 to 3 of Saving broadcast TV channels in the memory.
- 2 Press ▲/▼ to select "CH MEMORY", and press ENTER.



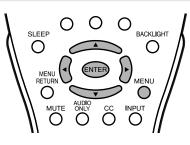
- 3 Press \blacktriangle/∇ to move the cursor to "CHANNEL", and use ✓ or Channel Select to select the desired channel to be added or erased.
- 4 Press $\blacktriangle/\blacksquare$ to move the cursor to "SKIP", and use \checkmark/\blacksquare to select "ON" or "OFF".
- 5 Press MENU to exit.

NOTE >

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

Useful Features (Continued)

SETUP





- Press **◀/**▶ to select "SETUP". 2
- 3 Press \blacktriangle/∇ to select the desired item, and press ENTER.

SETU					ON							
СН	-	S	Е	Т	Т		Ν	G				
ΜТ												
СL												
I N										С	Т	
V –								0				
СL											0	Ν
СО							S	Т	Ε	М		
LA	Ν	G	U	Α	G	E						

4 Press \blacktriangle/∇ to change the setting, and press **ENTER**.

5 Press MENU to exit.

Selected item	Factory setting	Setting options			
MTS	[STEREO] Stereo audio	[SAP] Secondary audio program			
		[MONO] Monophonic audio			
INPUT3 SELECT*	[IN] INPUT3/OUTPUT terminals selected as input terminals	[OUT 🗹 FAO] Line output is selected, output volume is fixed, speaker output is available.			
		[OUT IX VAO] Line output is selected, output volume is variable, speaker output is mute.			
COLOR SYSTEM	TV mode: N358/PAL-M/PAL-N				
	INPUT mode (INPUT2/INPUT3): N358/N443/PAL/P	PAL-M/PAL-N/SECAM/PAL60/AUTO			
	• When the INPUT1 (COMPONENT) mode is selected	le is selected, this function cannot be set.			
LANGUAGE	[ENGLISH]	[ESPAÑOL]			
		[FRANÇAIS]			

* "INPUT3 SELECT" cannot be set when "INPUT3" is selected in "WAKE-UP TIMER" in the OPTION menu.

NOTE >

- · For details about the following items, refer to each indicated page.
 - CH-SETTING Page 21
 - CLOCK Pages 13 and 14 V-CHIP BLOCK Pages 23 to 26

 - CLOSED CAPTION Page 27

• TV mode:

The LCD TV set 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 the LCD TV set.

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 (Motion Picture Association of America) 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.

MPAA rating

Rati	ing	Description	
	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.	
1	NC-17	NO ONE 17 AND UNDER ADMITTED.	
V ↓	X X is an older rating that is unified with NC-17 but may be encoded in the data of olde		

MPAA rating

Example 1:

1. Use	r setting	j 2.	Block ta	ble
G			G	Not to block
PG			PG	Not to block
PG-13	BLOCK	age-	PG-13	Select block
R	BLOCK	based	R	Auto- block
NC-17	BLOCK		NC-17	Auto- block
x	BLOCK		х	Auto- block

Example 2:

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

1. Use	r setting	2.	Block ta	ble
G		t	G	Not to block
PG			PG	Not to block
PG-13		age-	PG-13	Not to block
R	BLOCK	based	R	Select block
NC-17	BLOCK		NC-17	Auto- block
x	BLOCK	ļ	х	Auto- block

NOTE >

The MPAA rating is only age-based.

PG-13 in the age-based rating is

automatically block the higher

blocked, this will also

ratings R, NC-17 and X.

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)	X	X	X	X	×					
	TV-Y7 (Direct to Older Children)	×	X	X	X	\boxtimes					
age-	TV-G (General Audience)		X	X	X	×					
based	TV-PG (Parental Guidance Suggested)		×	×	×	×					
↓	TV-14 (Parents Strongly Cautioned)		×	×	×	×					
	TV-MA (Mature Audience Only)		×	×	×						

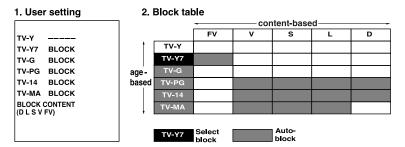
It is not normally broadcast by TV stations.

X: The content rating can be set.

TV parental guidelines

Example:

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



NOTE

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

Canadian Rating Systems

- The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programing.
- While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.
- When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

Canadian English ratings

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

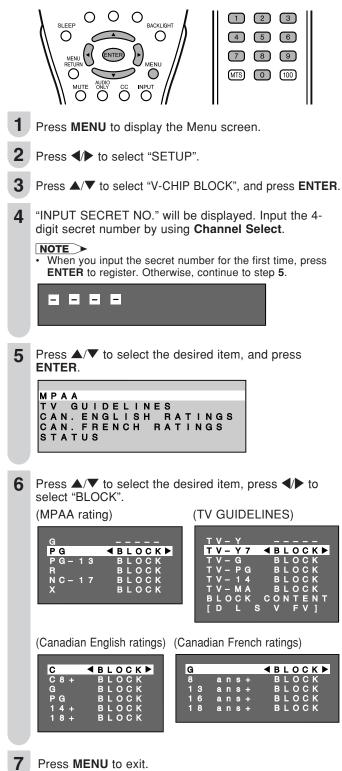
Canadian French ratings

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

V-CHIP Settings (Continued)

V-CHIP settings allow you to set MPAA rating, TV GUIDE-LINES, Canadian English ratings and Canadian French ratings.

Setting V-CHIP



NOTE

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

- Setting BLOCK CONTENT (TV GUIDELINES)
- 1 Repeat steps 1 to 4 of Setting V-CHIP.
- **2** Press \blacktriangle/∇ to select "TV GUIDELINES", and press ENTER.
- **3** Press ▲/▼ to select "BLOCK CONTENT", and press ENTER.

т v –			ΒL				
T V – T V –	G		B L B L	Ō	Ċ	κ	
T V – T V –	14		BL				
TV- BLO			BL	_	_	_	т
[D	L	S	۷	F	۷	1	

4 Press ▲/▼ to select the desired item, and press ◀/► to select "BLOCK" or "----" (unblock).

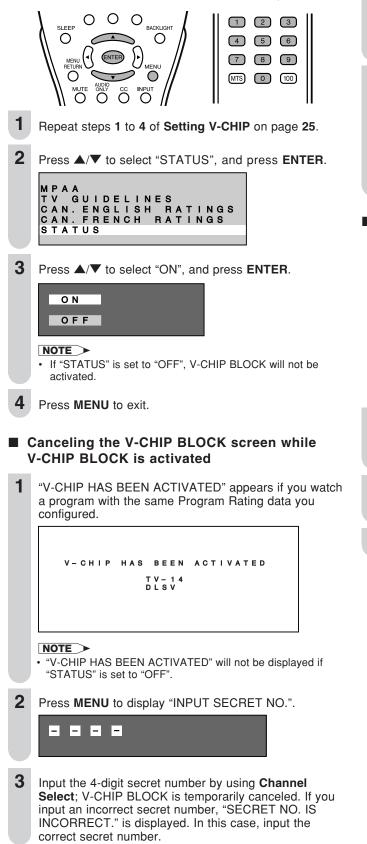
D	▲BLOCK►
L	BLOCK
S	BLOCK
V	BLOCK
FV	BLOCK

5 Press MENU to exit.

■ Activating V-CHIP BLOCK

Setting STATUS

You can activate V-CHIP BLOCK after setting V-CHIP.



Changing V-CHIP BLOCK settings

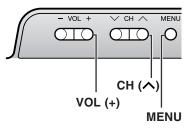
1 Repeat steps 1 to 3 of Setting V-CHIP on page 25, then "INPUT SECRET NO." will be displayed.





Changing or clearing the SECRET NUMBER If you forget the secret number, clear the secret number as follows.

Upper control panel of the main unit



- 1 Repeat steps 1 to 3 of Setting V-CHIP on page 25, or 1 and 2 of Canceling the V-CHIP BLOCK screen while V-CHIP BLOCK is activated, then "INPUT SECRET NO." will be displayed.
- 2 Press and hold both CH (^) and VOL (+) on the main unit simultaneously until the message "INPUT SECRET NO." blinks.



CLOSED CAPTION

Setting CLOSED CAPTION

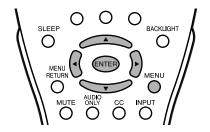
- This LCD TV set is equipped with an internal Closed Caption decoder. "Closed Caption" is a system which allows conversations, narration, and sound effects in TV programs and home videos to be viewed as captions on the TV screen (see the illustration).
- Not all programs and videos will offer closed 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

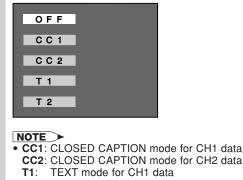
programs while allowing a clear view of the picture.

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.





- **1** Press **MENU** to display the Menu screen.
- **2** Press **√** to select "SETUP".
- **3** Press \blacktriangle / \bigtriangledown to select "CLOSED CAPTION ", and press ENTER.
- **4** Press $\blacktriangle/ \bigtriangledown$ to change the CLOSED CAPTION setting, and press **ENTER**.

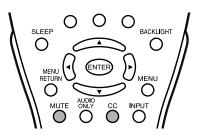


T2: TEXT mode for CH2 data

Press MENU to exit.

5

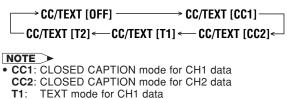
Directly setting the CLOSED CAPTION



1 Press CC to display the CC/TEXT screen.

CC/TEXT[OFF]

2 Press CC to change the setting.



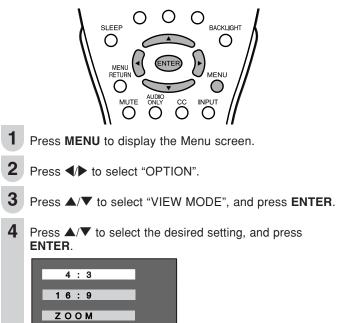
T2: TEXT mode for CH1 data

NOTE

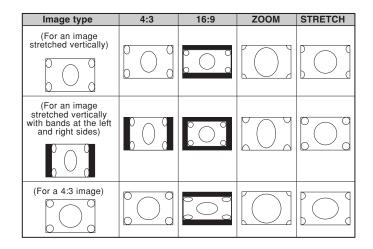
- If a broadcast contains Closed Caption data and MUTE is pressed, the LCD TV set enters CLOSED CAPTION mode automatically. Pressing MUTE again will return the LCD TV set to its previous condition.
- Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems at the broadcast source. This does not necessarily indicate a problem with the LCD TV 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".
- If you select "CC1", "CC2", "T1" or "T2" (or MUTE is pressed) while "VIEW MODE" is set to "ZOOM" or "STRETCH", "VIEW MODE" will be changed to "4:3" or "16:9" automatically.

VIEW MODE

You can select the picture display size for the playback image of the DVD player from the following four modes: "4:3", "16:9", "ZOOM" and "STRETCH".



Selected item	Description
4:3	Displays the image in a 4:3 size.
16:9	Stretches the image horizontally to display it in a 16:9 size.
ZOOM	Displays the center part of the image by enlarging it in the horizontal and vertical directions.
STRETCH	Stretches the image horizontally.



5 Press MENU to exit.

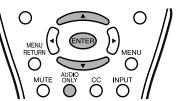
STRETCH

NOTE

- The 4:3 image will be distorted on the screen when the "VIEW MODE" is set to "16:9".
- When "CLOSED CAPTION" is set to "CC1", "CC2", "T1" or "T2", "ZOOM" and "STRETCH" cannot be set for "VIEW MODE".
- You can select a different VIEW MODE item for each input mode (INPUT1, INPUT2, INPUT3 and TV).

AUDIO ONLY

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



Setting the AUDIO ONLY on the Menu screen

- 1 Repeat steps 1 and 2 of VIEW MODE.
- **2** Press \blacktriangle / ∇ to select "AUDIO ONLY", and press ENTER.
 - Press \blacktriangle/∇ to select "ON", and press ENTER.



3

Selected item	Selected item Description	
ON Audio is output without screen image.		
OFF Both screen images and audio are output.		

Directly setting the AUDIO ONLY

1 Press AUDIO ONLY. 'PRESS "AUDIO ONLY" FOR VIDEO OFF' is displayed on the screen.

```
AUDIO ONLY [OFF]
PRESS'AUDIO ONLY'FOR VIDEO OFF
```

- 2 Press AUDIO ONLY again. The screen image will disappear.
- **3** Press **AUDIO ONLY** again. The screen image will be displayed again.

BLUE SCREEN

This function automatically turns the screen blue if no broadcast signal or no input signal is received.

- 1 Repeat steps 1 and 2 of VIEW MODE.
- 2 Press ▲/▼ to select "BLUE SCREEN", and press ENTER.
- 3 Press ▲/▼ to select "ON", and press ENTER.



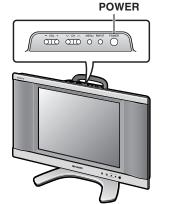
4 Press **MENU** to exit.

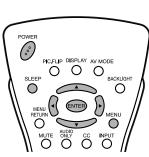
NOTE

 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".

SLEEP TIMER

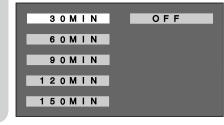
You can set the SLEEP TIMER to automatically turn off the TV.





Setting the SLEEP TIMER on the Menu screen

- 1 Press MENU to display the Menu screen.
- 2 Press **√** to select "OPTION".
- 3 Press ▲/▼ to select "SLEEP TIMER", and press ENTER.
- 4 Press ▲/▼/◀/▶ to select "30MIN", "60MIN", "90MIN", "120MIN", "150MIN" or "OFF", and press ENTER.

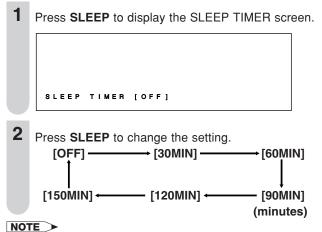


5 Press MENU to exit.

NOTE >

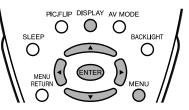
- After you set the SLEEP TIMER, pressing **POWER** on the main unit or POWER on the remote control will cancel the SLEEP TIMER setting.
- 5 minutes before the SLEEP TIMER turns off the LCD TV set, "5MIN REMAINING" is displayed on the screen for 4 seconds. The SLEEP TIMER counts down and shows a similar 4-second display for each remaining minute until the timer turns off the LCD TV set.

Directly setting the SLEEP TIMER



WAKE-UP TIMER

You can set the WAKE-UP TIMER to automatically turn on the TV.



- 1 Repeat steps 1 and 2 of SLEEP TIMER.
- 2 Press ▲/▼ to select "WAKE-UP TIMER", and press ENTER.
- 3 Press \blacktriangle/∇ to select the items, and press $\checkmark/\triangleright$ to adjust them.

•

Selected item	Description	
TIMER	To activate the WAKE-UP TIMER, set this item to "ON".	
TIME	Set the time at which you want to turn on the TV.	
CHANNEL	Set the TV channel or input mode when the TV is turned on.	
VOLUME	Set the volume when the TV is turned on.	

Press MENU to exit.

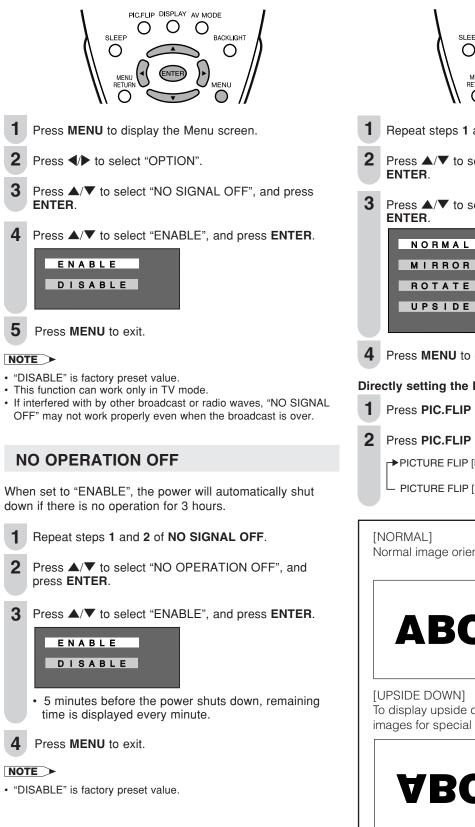
- 5 Make sure to turn off the LCD TV set with the remote control.
 - · The WAKE-UP TIMER will not be activated if the LCD TV is turned off with **POWER** on the main unit.

NOTE >

- When you set "WAKE-UP TIMER", the POWER/WAKE UP TIMER indicator lights up orange while in the standby mode.
- · Be sure to adjust the clock with "CLOCK" in "SETUP" before setting "SLEEP TIMER" and "WAKE-UP TIMER".
- You can output the picture and sound of the external device with the WAKE-UP TIMER function. Make sure that the external device turns on at the time you specified.
- The CHANNEL setting for "WAKE-UP TIMER" changes in the following order: INPUT1→INPUT2→INPUT3→TV (AIR or CABLE)* The skipped channels cannot be selected.
- When not using LCD TV set for a long period of time, either turn the main power off or set "WAKE-UP TIMER" to "OFF".
 When "WAKE-UP TIMER" has been set to "ON", the TV is turned
- on at the set time every day until it is set to "OFF"
- After the TV has been turned "ON" by "WAKE-UP TIMER", "SLEEP TIMER" is automatically set to 120 minutes for safety reason.
- · The time that is currently set can be checked on the screen by pressing **DISPLAY**.
- When the time set for "WAKE-UP TIMER" is reached when the power is on, the TV changes to the set channel. The volume does not change at this time.

NO SIGNAL OFF

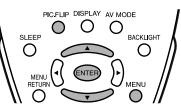
The NO SIGNAL OFF function allows you to save energy. When set to "ENABLE", the power will automatically shut down if no signal inputs for 5 minutes.



PICTURE FLIP

You can set the orientation of the picture.

Setting the PICTURE FLIP on the MENU screen



- Repeat steps 1 and 2 of NO SIGNAL OFF.
- Press \blacktriangle/∇ to select "PICTURE FLIP", and press
- Press \blacktriangle/∇ to select the desired mode, and press

I	ΝО	RM	AL	
1	N I	RR	OR	
	RO	ΤА	ΤE	
	UΡ	S I	DE	DOWN

Press MENU to exit.

Directly setting the PICTURE FLIP

- Press **PIC.FLIP** to display the PICTURE FLIP screen.
- Press **PIC.FLIP** to change the setting.
 - ► PICTURE FLIP [NORMAL] -----> PICTURE FLIP [MIRROR] -
 - └─ PICTURE FLIP [UPSIDE DOWN] ← PICTURE FLIP [ROTATE] ◀

Normal image orientation.

[MIRROR] To display mirror images for special uses.



To display upside down images for special uses.





To display rotated images

[ROTATE]

for special uses.

Connecting External Devices

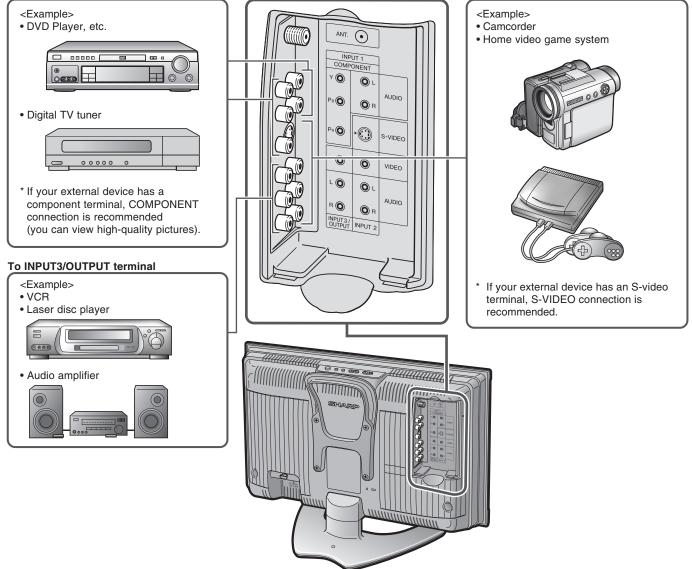
You can enjoy picture and sound by connecting a VCR or a home video game system to the terminals located on the rear of the main unit.

To INPUT2 terminal

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

Example of External Devices that can be Connected

To INPUT1 terminal



NOTE

- For the cable, use a commercially available audio/video cable.
- Only connect audio/video signals to INPUT2 and INPUT3/OUTPUT terminals. Connecting other signals may result in a malfunction.
 INPUT2 has 2 video input terminals: VIDEO and S-VIDEO. When you connect external devices to both terminals (and if you select INPUT2), 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.

Outputting Video and Audio (Video Output)

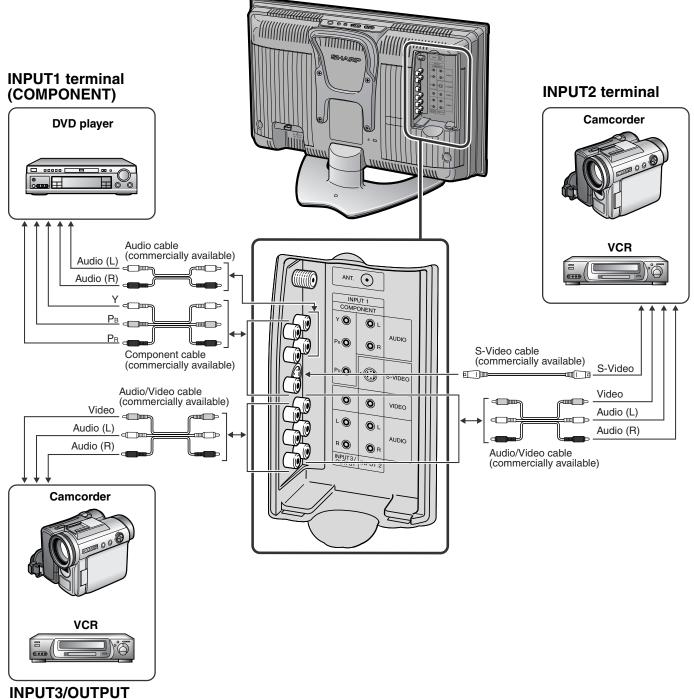
You can output video and audio signals from the LCD TV set through the INPUT3/OUTPUT terminal.

- When using INPUT3/OUTPUT as an output terminal, select "SETUP" in the Menu screen and set "INPUT3 SELECT" to "OUT". (See page 22.)
- · The factory setting for "INPUT3 SELECT" is "IN".

NOTE

• When using the S-VIDEO input for INPUT2, or COMPONENT input for INPUT1, no video signal will be made to the INPUT3/OUTPUT terminal, but audio signal will be made for connection to external audio systems.

Connecting to the INPUT1/2/3 Terminals



terminal

NOTE

- · If your VCR (or other external devices) has an S-video terminal, S-VIDEO connection is recommended. (Use an S-video cable.)
- When you connect external devices to both S-VIDEO and VIDEO terminals (and if you select INPUT2), 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.
- Only when 480I, 480P, 576I, 576P, 720P or 1080I signal is received, picture can be displayed.

Troubleshooting

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



Problem		Check item	Reference page
pic	There is no picture or	 Make sure the AC cord is properly inserted in the power outlet. Reception other than those of broadcasting stations can be considered. 	8
	sound.	Make sure the input mode is set to TV.Make sure the POWER switch of the main unit is on.	15 14
Picture	There is no picture. There is no picture from	 Make sure the BRIGHTNESS is properly adjusted. Fluorescent lamp may have reached the end of service life. Make sure the S-VIDEO terminal has nothing connected. 	19 34 32
	INPUT1/2/3.	 Make sure the AUDIO ONLY is not set to ON. 	28
?	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. 	15 15 9
	There is no picture or sound, just noise.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	7, 8
	Picture is not clear.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	7, 8
	Picture is light or improperly tinted.	 Check color adjustment. Check COLOR SYSTEM setting. 	19, 20 22
	The picture is too dark.	 Press the BACKLIGHT button or set the BACKLIGHT or BRIGHTNESS settings. Check CONTRAST and BRIGHTNESS adjustment. Fluorescent lamp may have reached the end of service life. 	19 19 34
Remote control does not work.		 Check the batteries of the remote control. Make sure the remote sensor window is not in strong lighting. 	6 6
The clock (AUTO CLOCK) cannot be set.		 The broadcasted EDS signal may be weak. Check the antenna. Carry out EZ SETUP or Setting the CLOCK again. If EDS signal is not sent, set the clock using MANUAL CLOCK Setting. 	– 12, 13, 21 13
Unit cannot be operated.		• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in 1 or 2 minutes.	-

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

Antenna

Problem	Check item	
The picture is not sharp. The picture moves.	 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 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 to normal.

Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
 Storage temperature: -4°F to +140°F (-20°C to +60°C)

Specifications

Items	Model	LC-15B8U	
LCD panel		15" Advanced Super View & BLACK TFT LCD	
Number of dot	ts	921,600 dots VGA	
Video color sy	stems	N358, N443, PAL, PAL-M, PAL-N, SECAM, PAL-60	
	TV Standard (CCIR)	NTSC/PAL-M/PAL-N	
	TV Tuning System	PLL 181 ch.	
TV function	STEREO	MTS+SAP	
	CATV	125 ch.	
Y/C FILTER		3-LINE COMB FILTER	
Brightness		430 cd/m ²	
Lamp life (Fluorescent lamp)		60,000 hours*	
Viewing angles		H: 170° V: 170°	
Audio amplifier		2.1 W × 2	
Speakers		$1 \frac{37}{64} \times 2 \frac{3}{4}$ in. (4 × 7 cm), 2 pcs.	
	INPUT1	AUDIO-IN, COMPONENT-IN	
	INPUT2	AUDIO-IN, VIDEO-IN, S-VIDEO-IN	
Terminals	INPUT3/OUTPUT	AUDIO-IN, VIDEO-IN/AUDIO-OUT, VIDEO-OUT	
	Antenna	F-Туре	
	Headphone	Mini-jack for stereo (ø3.5 mm)	
OSD language		English/Spanish/French	
Power supply		AC 110-240V, 50/60Hz	
Power consumption		54 W (0.5 W standby): AC 120V	
Woight	Display only	9.0 lbs./4.1 kg	
Weight	With Display and stand	10.6 lbs./4.8 kg	

* Typical time for power output decrease of about one-half assuming continuous use in a room with normal lighting, normal brightness and temperature at 77°F/25°C

Dimensional Drawings

• The dimensional drawings are shown on the inside back cover.

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for the LCD TV set 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-15B8U 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:	Ship prepaid or carry in your Product to a Sharp Authorized Servicer. Be sure to have Proof of Purchase available. If you ship the Product, be sure it is insured and packaged securely.

TO OBTAIN PRODUCT INFORMATION, CALL 1-800-BE-SHARP OR VISIT www.sharpusa.com



Sharp Plaza, Mahwah, New Jersey 07430-2135

SHARP CORPORATION

VALID IN CANADA ONLY



LIMITED WARRANTY

Consumer Electronics Products

Congratulations on your purchase!

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

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

This warranty shall not apply to:

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

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

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

WARRANTY PERIODS:

Camcorder DVD Products Projector LCD & Plasma Display TV Microwave Oven Television Products VCR Products Vacuum Cleaner

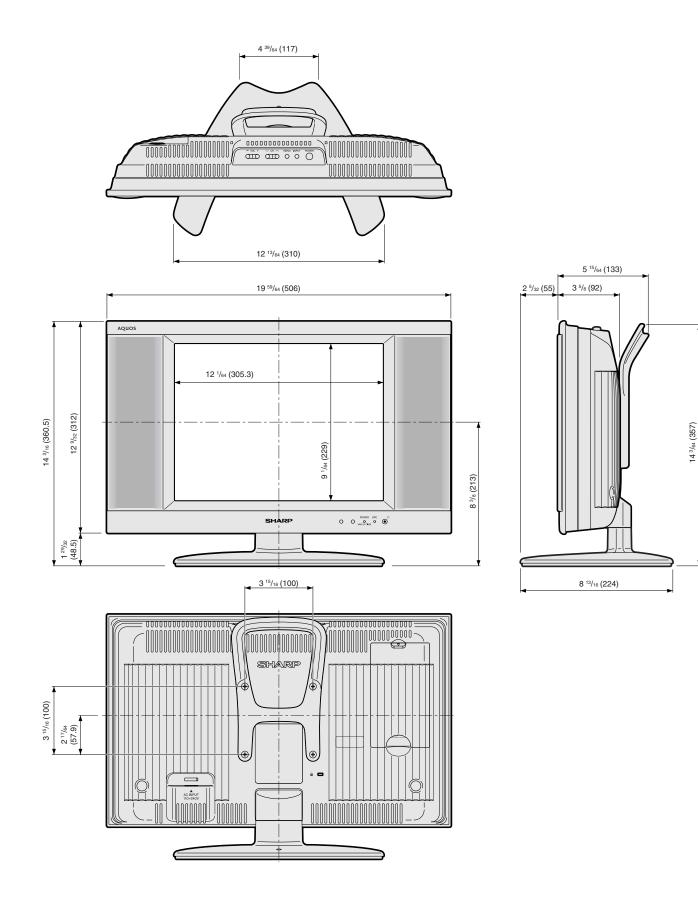
Audio Products

Parts & Labour (exceptions noted) 1 year 1 year 1 year 1 year (lamp 90 days) 1 year 1 year (magnetron component-4 additional years) 1 year (picture tube component-1 additional year) 1 year

To obtain the name and address of the nearest Authorized Sharp Service Centre or Dealer, please contact: SHARP ELECTRONICS OF CANADA LTD. 335 Britannia Road East, Mississauga, Ontario L4Z 1W9 For more information on this Warranty, Sharp Extended Warranty Offers, Sharp Canada Products, Accessory Sales, Dealer or Service Locations, please call (905) 568-7140 Visit our Web site: www.sharp.ca

Revision 04/22/03

Unit: inch (mm)





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