SHARP_®

LC-13B4M LC-15B4M LC-20B4M

LCD COLOUR TELEVISION

液晶顯示彩色電視機 液晶显示彩色电视机



AQUOS

OPERATION MANUAL 使用説明書 使用说明书

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LC-13B4M LC-15B4M LC-20B4M

LCD COLOUR TELEVISION

ENGLISH

OPERATION MANUAL

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DEAR SHARP CUSTOMER

Thank you for your purchase of the Sharp LCD Colour TV product. 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 colour 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—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
 Dever seurce. This product must exercise an a power seurce exercised on the exercise label.
- 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 you plan to use a DC power supply unit other than the AC adapter supplied with the product, make sure the power supply unit provides stable voltage with minimum fluctuations. Unstable power supply can cause problems in the 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 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.

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IMPORTANT SAFETY PRECAUTIONS (Continued)

Cleaning—Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
■ Stand—Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
 When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
■ The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.
■ Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
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.
The LCD 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.

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SUPPLIED ACCESSORIES

Make sure the following accessories are provided with the product.

Wireless Remote Control (×1)	"AAA" size (UM/SUM-4) Di	ry Battery (×2)
Antenna Cable (×1)	AC Cord (×1))
	*Product shape varies in s	C→ ··· Ome countries.
AC Adapter (×1)	Operation Manual (×1)	Cable Clamp (×2)
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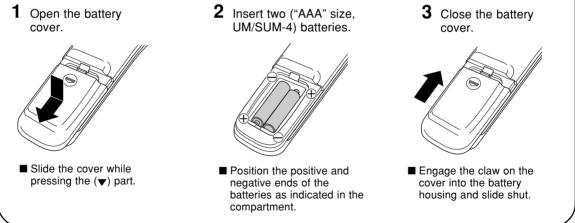
PREPARATION

Preparing and Using the Remote Control

- Use the remote control by pointing it towards the remote sensor window. Objects between the remote control and sensor window may prevent proper operation.
- Cautions regarding use of remote control
- Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, 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 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 sensor window.

Batteries for 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.



▲ Caution!

Cautions regarding batteries

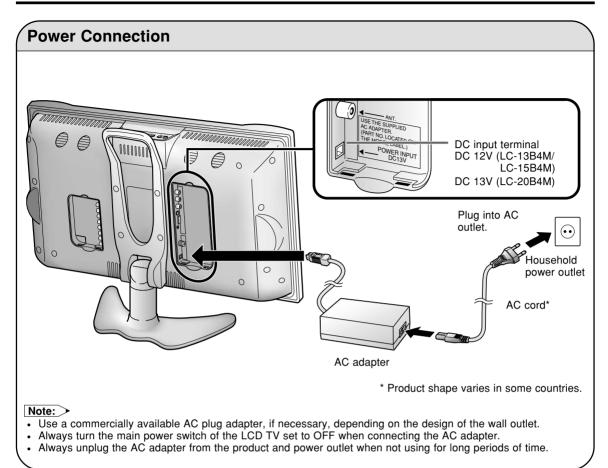
Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

- Place batteries with their terminals corresponding to the (+) and (-) indications.
- 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 batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are non-operable. 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 is not used for an extended period of time, remove batteries from the remote control.

O LSLEEP indicator

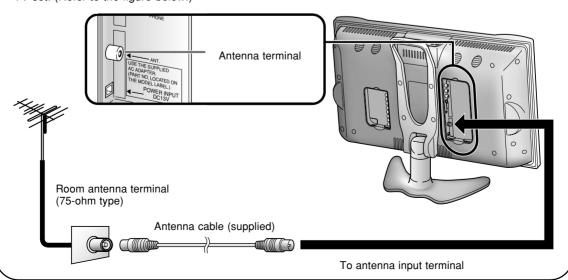
Power/Standby indicator Remote sensor window

PREPARATION (Continued)



Antenna Connection

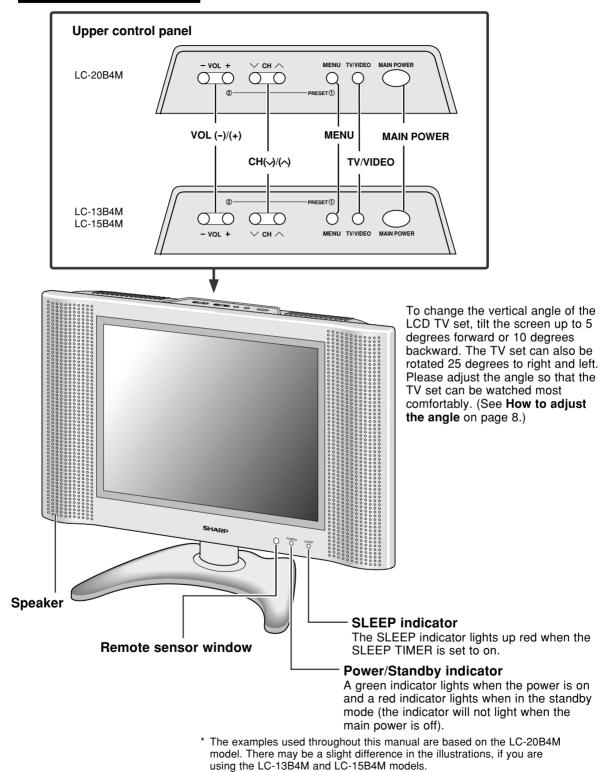
 Using the supplied antenna cable, connect the room antenna terminal to the antenna input terminal on the TV set. (Refer to the figure below.)



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LOCATION OF USERS CONTROL

Main unit (front view)



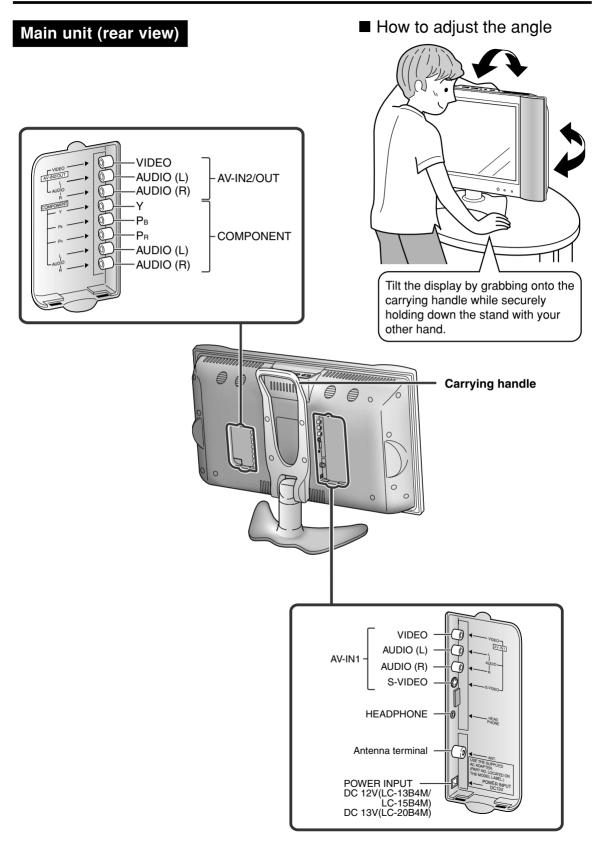
Note: >

TV/VIDEO, CH (\scale)/(\scale), and VOL (-)/(+) 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 with the remote control.

(E)

7

LOCATION OF USERS CONTROL (Continued)

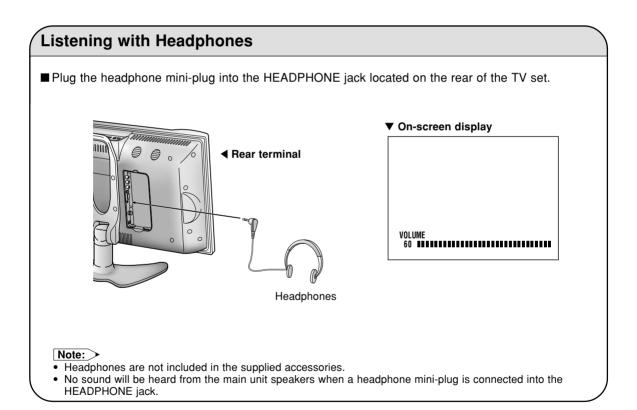


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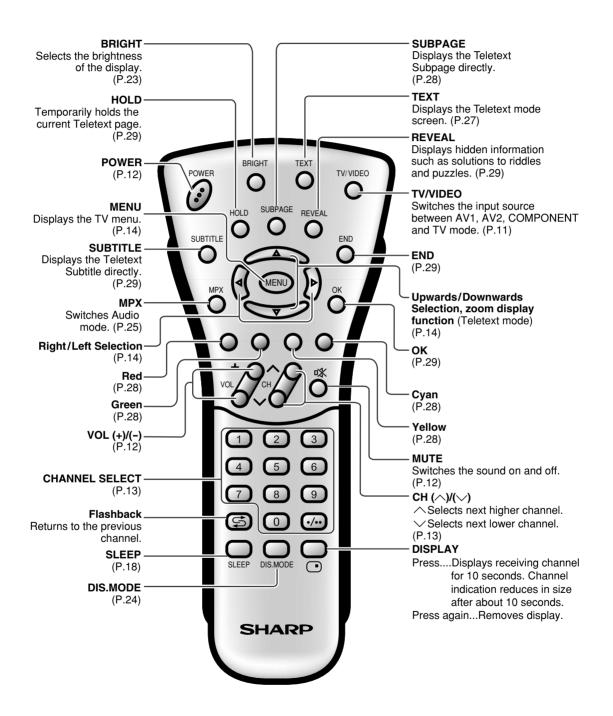
Removing the Back Cover

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



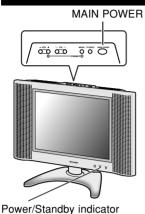
LOCATION OF USERS CONTROL (Continued)

Remote control



Turning on POWER

Control section of main unit



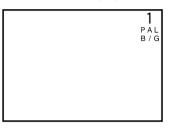
1 Press MAIN POWER, located on the upper part of the main unit to ON.

2 The Power/Standby indicator instantaneously changes from red to green and the main unit is turned on.

Note: >

Input mode indication disappears after several seconds.

▼ On-Screen Display

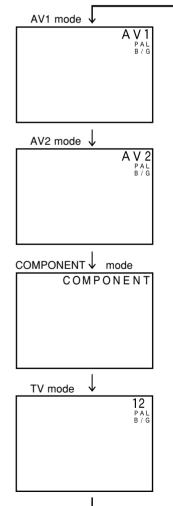


Switching TV/VIDEO AV1/AV2/COMPONENT/TV Mode

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

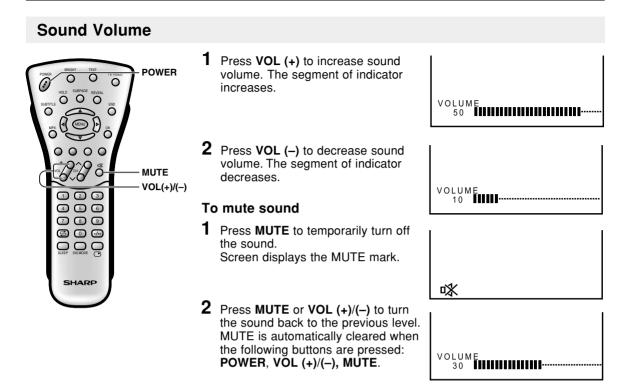
Note: >

- AV input mode indication remains for 5 seconds.
- AV1: Video equipment connected to the AV1 input terminals. An S-video input terminal is additionally provided for the AV1 input. If both S-video terminal and normal video terminals are connected with cables, the Svideo input terminal is selected as the high priority.
- AV2: AV2 mode is used to adjust the preset settings and IN or OUT can be selected. AV2 indication is not displayed when OUT is selected. (For details on setting AV-OUT, see page 22.)
- COMPONENT: Video equipment connected to the COMPONENT input terminals.

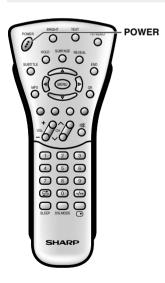




BASIC OPERATION (Continued)



ON/OFF Standby



12 E

To turn off the LCD TV

Press **POWER** on the remote control. The Power/Standby indicator will turn red. (Standby position)

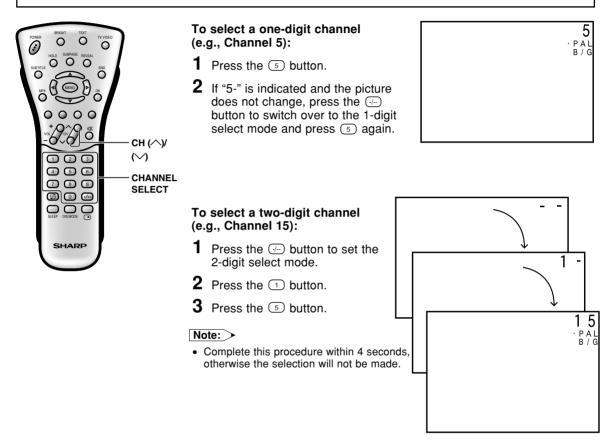
To turn the LCD TV back on

Press **POWER** again. The Power/Standby indicator will turn green.

Changing the Channels

Changing channels using CHANNEL SELECT on the remote control.

 To handle the increasing number of channels available, this LCD TV set allows you to select up to 100 positions (Channels 0 to 99). One-digit and two-digit methods of selection can be used. Follow the procedure shown below to select channels.



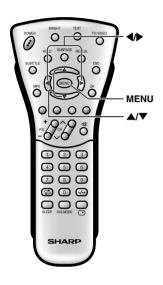
Changing channels with CH (\land)/(\checkmark) on the remote control.

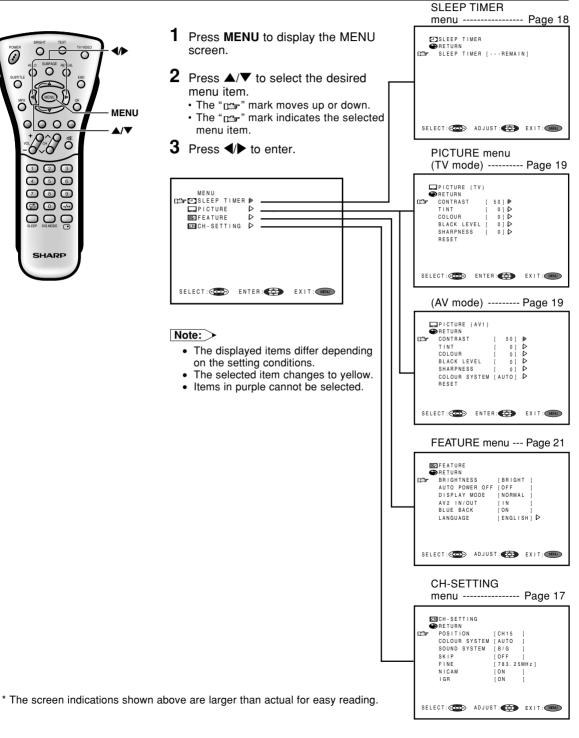
Press **CH** (\land) and the channels change in the order shown below: $1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots \rightarrow 98 \rightarrow 99 \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots$ Press **CH** (\checkmark) and the channels change in the order shown below: $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow 99 \rightarrow 98 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$

SELECTING THE MENU ITEMS

Selecting a Menu Item

. This LCD TV set allows you to adjust the picture and sound, and set the channels and other features using the On-Screen Display. Select the desired menu item by following the steps below and then refer to the indicated page for details.

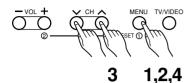




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On-Screen Display Language Selection

Upper control panel



* In this example, the LC-20B4M model is used. Refer to page 7 if you are using the LC-13B4M and LC-15B4M models.

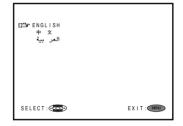
- MENU on the LCD TV set can also be used to select the language.
- 1 Press MENU (PRESET-①) on the upper part of the LCD TV set for more than 2 seconds to display the PRESET mode screen.
- 2 Press MENU (PRESET-①) twice to display the LANGUAGE select mode screen. Press MENU (PRESET-①) again to change the PRESET mode as shown below.

 $\textbf{AUTO} \rightarrow \textbf{MANUAL} \rightarrow \textbf{LANGUAGE} \rightarrow \begin{matrix} \textbf{NORMAL} \\ \textbf{SCREEN} \end{matrix}$

Note: >

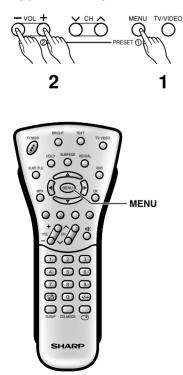
- Instead of pressing MENU for more than 2 seconds, you can display the LANGUAGE select mode by selecting
 Image: FEATURE → LANGUAGE on the Menu screen.
- **3** Press CH $(\checkmark)/(\land)$ to select the language you wish to display.
- 4 Press MENU (PRESET-①) to return to the normal screen.

AUTO(B/G) VHF 1 48.25MHz



Presetting the Channels (AUTO)

Upper control panel



- Automatically tunes in and presets receivable TV stations. Make sure the antenna cable is properly connected.
- 1 Press MENU (PRESET-①) on the upper part of the LCD TV set for more than two seconds. The AUTO mode screen appears.
- 2 Press VOL (-)/(+) (PRESET-②) on the upper part of the LCD TV set.
 All the TV stations in your area

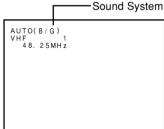
All the TV stations in your area that can be received by the LCD TV set are automatically preset.

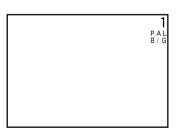
3 The screen shows whatever is on channel 1 when full auto channel preset is finished.

Note: >

- When starting PRESET after setting the SOUND SYSTEM with MENU of the Remote Control, the SOUND SYSTEM for all channels are stored into memory.
- Unused channels are automatically skipped.
- The Preset mode is only available in the TV mode and cannot be operated in the AV mode.

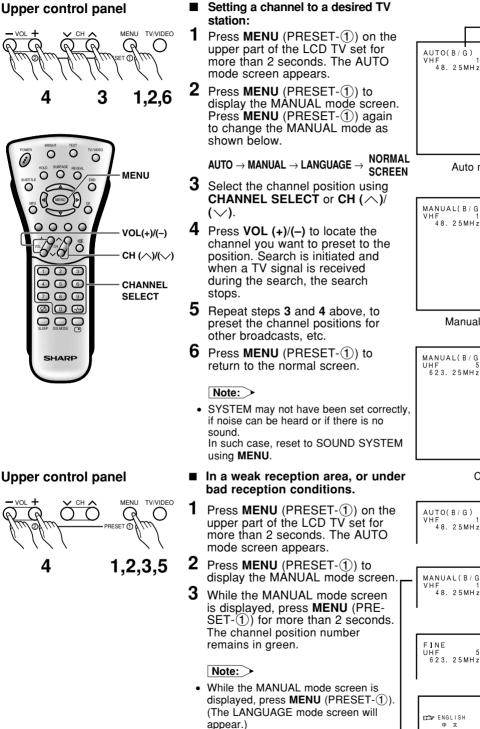
(Auto mode screen)



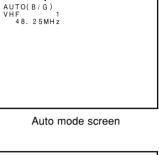


Presetting the Channels (MANUAL)

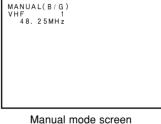
Upper control panel

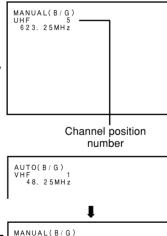


- 4 Adjust for good reception using VOL (+)/(-).
- 5 After finishing the adjustment, press MENU (PRESÉT-(1)) to continue channel presetting.



Sound System





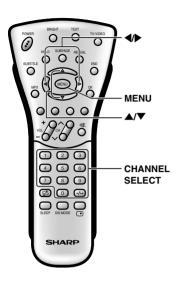
623.25MHz ♦ ★
العر بية SELECT: EXIT: MENU

(E) 16

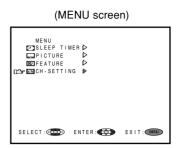
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PRESET (Continued)

Channel Setting



- 1 Press **MENU** to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to CH-SETTING.
- 3 Press **√** to display CH-SETTING screen.
- 4 Press ▲/▼ to select the desired function mode.
- 5 Each time you press ◄/▶, the setting for individual items is as mentioned under Selected item:
- 6 Press MENU to return to the normal screen.



(CH-SETTING screen)

	CH-SETTING RETURN	
съ- Т	POSITION	[CH15]
	COLOUR SYSTEM	[AUTO]
	SOUND SYSTEM	[B/G]
	SKIP	[OFF]
	FINE	[783.25MHz]
	NICAM	[ON]
	IGR	[ON]
SELE	ECT: 🐨 ADJU	ST: 🚱 EXIT: 💷

(E)

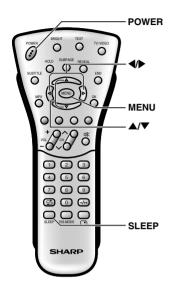
17

Selected item		
POSITION	The channel position changes to the upper or lower number.	
COLOUR SYSTEM	The mode changes in the following order: $AUTO \leftrightarrow PAL \leftrightarrow SECAM$ \uparrow N443 \leftrightarrow N358	
SOUND SYSTEM	The mode changes in the following order: $B/G \leftrightarrow I \leftrightarrow D/K \leftrightarrow M$	
SKIP	The mode changes in the following order: $ON \leftrightarrow OFF$ Channel numbers with a " \bullet (RED)" mark on the left are set to SKIP. To turn off SKIP, press CHANNEL SELECT to select the desired channel, and then set the SKIP mode on the CH-SETTING menu to "OFF".	
FINE	The frequency changes to allow fine tuning.	
NICAM	The broadcast sound system changes in the following order: ON (NICAM sound) \leftrightarrow OFF (Monaural TV sound)	
IGR	Stereo system changes in the following order: ON (IGR sound) \longleftrightarrow OFF (Monaural TV sound)	

Note:

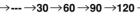
- Switching COLOUR SYSTEM
- Set the system to AUTO for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the LCD TV set. When the picture or sound is not stable, switching to an appropriate system may improve the picture or sound quality.
- When using FINE tuning, the channel number changes from green to yellow.
- To return the channel to its original frequency setting, follow the manual channel preset procedure. (Please see page 16 "Presetting the Channels (MANUAL)" for details.)
- In AV mode, items in purple cannot be selected.

Adjusting the SLEEP TIMER Setting



To use Direct Key function

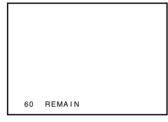
- 1 Press SLEEP to display the SLEEP TIMER screen.
- **2** Press **SLEEP** to set the sleep timer (in minutes).
 - Each time you press **SLEEP**, the timer changes as follows:



The setting is turned off when --- is displayed.

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





SELECT: COD ENTER: COD EXIT: MEN

RETURN SLEEP TIMER [120 REMAIN]

SELECT: ADJUST: 🚱 EXIT: 🎟

MENU

CC SLEEP TIMER ► DICTURE ► CONFEATURE ► CONFEATURE ► CONFEATURE ►

SLEEP TIMER

n^-

To use MENU item

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

The setting can be set in increment of 30 minutes and in the range between 30 and 120 minutes.

The setting is turned off when --- is displayed.

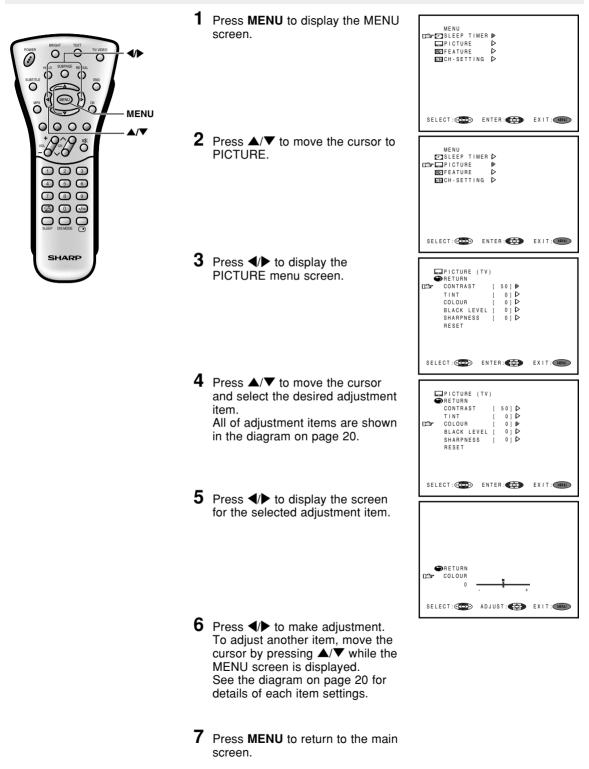
5 Press MENU to return to the main screen.

Note:

- When you set the SLEEP TIMER, the SLEEP indicator lights.
- After you set the SLEEP TIMER, if you turn off the **MAIN POWER** on the TV set or press **POWER** on the remote control, the SLEEP TIMER setting is cancelled 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.

ADJUSTMENT (Continued)

Adjusting the PICTURE Settings



ADJUSTMENT (Continued)

Selected item	Press 4 .		Press ▶.
CONTRAST	Decrease contrast	<u>←</u> → - +	Increase contrast
TINT	Toward purple		Toward green
COLOUR	Lower colour intensity	<u> </u>	Higher colour intensity
BLACK LEVEL	Less bright	<u> </u>	More bright
SHARPNESS	Soft picture	<u> </u>	Hard picture
COLOUR SYSTEM (AV1/AV2) (COMPONENT)	Press \blacktriangleright to select COLOUR SYSTEM. \rightarrow AUTO \rightarrow PAL \rightarrow SECAM \rightarrow N358 \rightarrow N443 \rightarrow PAL60 $_$ \rightarrow AUTO \rightarrow PAL \rightarrow NTSC $_$		

Note: >

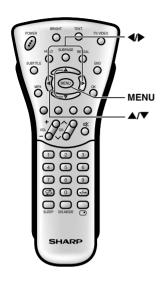
• COLOUR SYSTEM is displayed only in the AV mode.

Switching the COLOUR SYSTEM

Set the system to AUTO for normal reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the set.

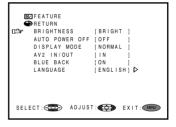
When the picture or sound is not stable, switching to an appropriate system may improve the picture or sound quality.

Adjusting the FEATURE Settings



- The FEATURE items can be set by the user.
- 1 Press MENU to display the MENU screen.
- **2** Press $\blacktriangle/\blacksquare$ to move the cursor to FEATURE.
- 3 Press **√** to display FEATURE screen.
- 4 Check the factory setting of each item on the FEATURE screen. The user can change the settings by using ▲/▼ and ◀/▶. See the diagram on page 22 for details of each item settings.
- 5 Press MENU to return to the main screen.

MENU C⊐ C SLEEP TIMER ► I PICTURE ► I C FFATURE ► I C FFATURE ► I C FFATURE ►	
SELECT: CO ENTER: CO	EXIT:
MENU SLEEP TIMER ▷ □PICTURE ▷ ICTT INF INF EDICH-SETTING ▷	



ADJUSTMENT (Continued)

Selected item	Factory setting	Setting change
BRIGHTNESS	[BRIGHT] Maximum brightness	 [NORMAL] Brightness 60% → Suitable for viewing in well-lit areas. Saves energy. [DARK] Brightness 20% → Sufficiently bright when viewing in dim areas.
AUTO POWER OFF (only TV mode)	[OFF] This feature is inactive.	[ON] The power of the LCD TV set is turned off when there is no signal for 5 minutes.
DISPLAY MODE	[NORMAL] Normal image orientation	[MIRROR] Mirror image → To display mirror images for special uses. [UPSIDE DOWN] Upside down image → To display upside down images for special uses. [REVERSE + INVERT] Reversed and inverted image → To display images reversed and inverted for special uses.
AV2 IN/OUT	[IN]	 [OUT
BLUE BACK	[ON] The screen is turned blue when there is no signal.	[OFF] This feature is inactive.
LANGUAGE	[ENGLISH]	[申文] [العربية]

■ In BLUE BACK, PICTURE setting displayed in purple cannot be selected.

AV2 IN/OUT cannot be selected in AV2 mode. Also, AV2 mode cannot be selected, when selecting AV2 OUT.

Adjusting the BRIGHTNESS Settings

BRIGHT

You can set the brightness of the screen.

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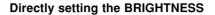
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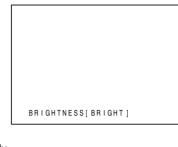
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- 1 Press **BRIGHT** to display the BRIGHTNESS screen.
- 2 Press **BRIGHT** to change the setting.

 \rightarrow BRIGHT \rightarrow NORMAL \rightarrow DARK-





- The BRIGHTNESS screen automatically disappears in 3 seconds.
- [BRIGHT]: maximum brightness
 [NORMAL]: 60% brightness (suitable for viewing in a well-lit area and saves energy)
 [DARK]: 20% brightness (sufficiently bright when viewing in a dimly lit area)

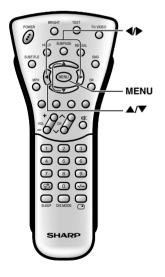
Setting the BRIGHTNESS on the MENU screen

- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to FEATURE.
- 3 Press **√** to display FEATURE screen.

MENU SLEEP TIN POFEATURE COFEATURE COFEATURE		
SELECT:	ENTER: 😨	EXIT:

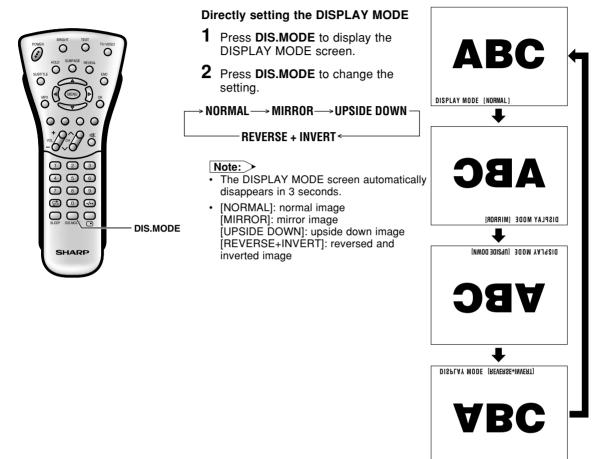
- 4 Press ▲/▼ to move the cursor to BRIGHTNESS.
- **5** Press \triangleleft to set the brightness.
- 6 Press MENU to return to the main screen.

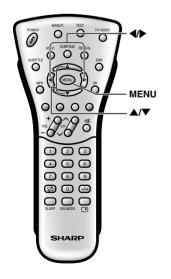
]FEATURE PRETURN BRIGHTNESS AUTO POWER OFF	
	DISPLAY MODE AV2 IN/OUT BLUE BACK LANGUAGE	[NORMAL] [IN] [ON] [ENGLISH] ▷
SELE	CT: CT: ADJUS	T: 🛟 EXIT: ฒ



Adjusting the DISPLAY MODE Settings

You can set the orientation of the picture.



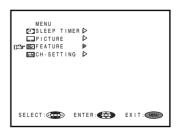


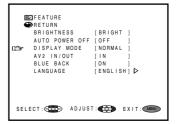
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Setting the DISPLAY MODE on the MENU screen

- 1 Press **MENU** to display the MENU screen.
- 2 Press ▲/▼ to move the cursor to FEATURE.
- 3 Press **√** to display FEATURE screen.
- 4 Press ▲/▼ to move the cursor to DISPLAY MODE.
- 5 Press ◀/► to set the DISPLAY MODE.
- 6 Press MENU to return to the main screen.

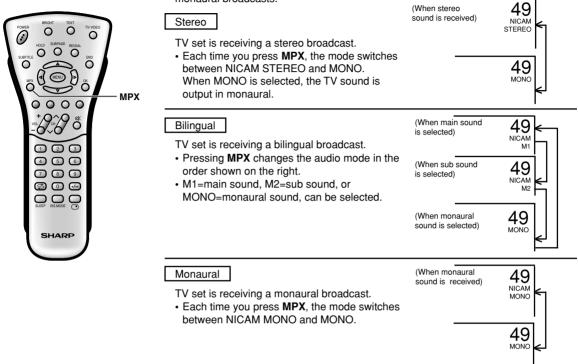




NICAM BROADCASTS SELECTION

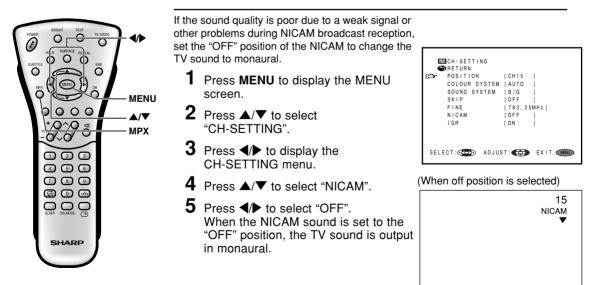
Enables selection of reception mode when receiving a NICAM signal.

To let you enjoy NICAM broadcasting, this LCD TV receives NICAM system stereo, bilingual, and monaural broadcasts.



Note: >

- If approximately 3 seconds pass without a button being pressed, the mode setting is automatically terminated and the TV set returns to normal mode.
- The setting can be selected individually for each channel position.

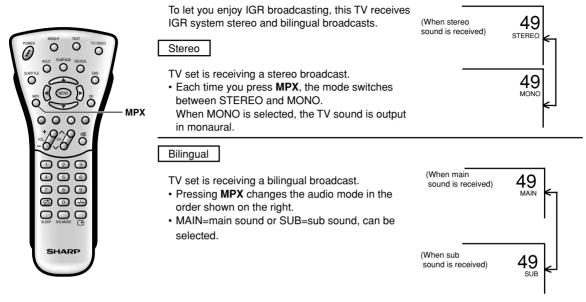


Note: >

• When the NICAM sound is set to the "OFF" position, **MPX** cannot be used to change the audio mode (stereo and bilingual settings).

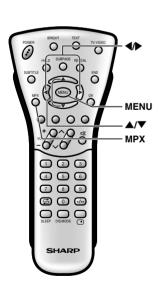
IGR (German stereo system) BROADCASTS

Enables selection of reception mode when receiving an IGR Stereo signal.



Note: >

- If approximately 3 seconds pass without a button being pressed, the mode setting is automatically terminated and the TV set returns to normal mode.
- The setting can be selected individually for each channel position.



If the sound quality is poor due to a weak signal or other problems during IGR broadcast reception, set the "OFF" position of the IGR to change the TV sound to monaural.

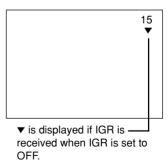
- 1 Press MENU to display the MENU screen.
- 2 Press ▲/▼ to select "CH-SETTING".
- **3** Press **√** to display the CH-SETTING menu.
- 4 Press ▲/▼ to select "IGR".
- 5 Press **√** to select "OFF".

When the IGR sound is set to the "OFF" position, the TV sound is output in monaural.

(CH-SETTING menu)



(When off position is selected)



Note: >

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• When the IGR sound is set to the "OFF" position, **MPX** cannot be used to change the audio mode (stereo and bilingual settings).

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Teletext

What is Teletext?

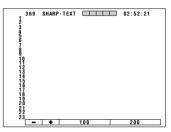
Teletext is an information service organized like a magazine, which is provided by some TV stations in addition to regular television broadcasting. Your LCD TV set receives special Teletext signals broadcast by a TV station, processes the information and displays it graphically on the screen. News, weather and sports information, stock exchange prices, programme reviews and closed captioning for the deaf are among the many services available through Teletext.

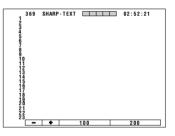
Teletext mode

Teletext is activated with **TEXT** on the remote control and is also closed with it. The LCD TV set can be controlled in Teletext mode directly by inputting commands with the remote control and indirectly through the on-screen display (menu system).

Operating instructions in Teletext mode

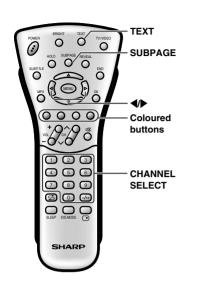
- The FLOF system for teletext is transmitted in Singapore currently.
- The TOP system for teletext is transmitted in Australia currently.
- If TOP Teletext is broadcast, a control line and TOP line can be displayed on the screen. The TOP line involves the operating instructions associated with all of the coloured buttons if TOP text is transmitted, or the operating instructions for only **Red** and **Green** if TOP text is not being transmitted.
- If there are subpages, a control line holding the operating instructions for subpages can be displayed on line 24.







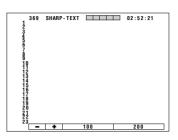
Teletext (Continued)

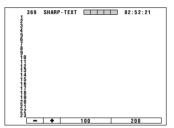


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[1] Turning on and off Teletext mode

- Select a TV channel that is broadcasting the Teletext programme.
- 2 Press **TEXT**. The Teletext screen appears.
- To turn off the Teletext mode, press **TEXT** again.
- [2] Using the TOP line When TOP Teletext is being broadcast, you can display the TOP line, which contains the operating instructions on the screen.
- **1** Use the **Coloured buttons** to operate the Teletext screen.
 - Press **Red** to display the previous page and **Green** to display the next page. **Yellow** and **Cyan** are as indicated on the TOP line.





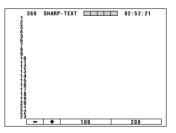
Note: >

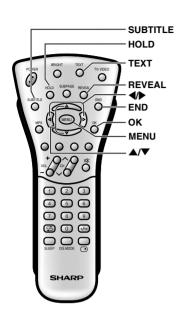
• By using the **Red** button the previously selected page will appear down to the first page which showed up directly after switching on the video text. Therefore the **Red** button has no function directly after switching on the video text.

[3] Changing subpages

If a page has been selected from among several subpages, you can display a control line which contains the subpage numbers.

- 1 Press **SUBPAGE**. The control line with the subpage numbers is displayed on line 24, and the number of the currently selected subpage is displayed in blue.
- 2 Press ◀/ ► to select the desired subpage number. The selected subpage is displayed.
 - You can also use **CHANNEL SELECT** to select the desired subpage.
- **3** Press **SUBPAGE** to turn off the control line with the subpage numbers.





[4] Using the TOP table

When TOP Teletext is being broadcast, you can display the TOP table with the current programme data if one exists.

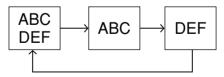
- 1 Press **OK** to display the TOP table. The Teletext page is temporarily turned off.
- 2 Press ▲/▼ to select the desired item. Press ◀/▶ to select topics (column 1) or subtopics (column 2) if they exist.
- **3** Press **OK**. A page associated with the selected item is displayed.
- 4 Press END to exit.

[5] Using Teletext menu To select the character set

- 1 Press MENU to display the "CHARACTER SET" screen.
- 2 Press ▲/▼ to select the desired character set.
 - The colour of the letters will turn to yellow. When selecting the character set, pressing ◄/▶ will change the letters to magenta for an instant and then return them back to yellow.
- **3** Press **MENU** to exit.

[6] Useful Features for Teletext

- The **HOLD** on the remote control can be used to hold the current teletext page. Press the button again to cancel the hold mode.
- ▲/▼ can be used to zoom the current teletext page as below.



- The screen displays each mode each time ▲/▼ is pressed.
- The SUBTITLE can be used to quickly activate subtitles.
- * Press **TEXT** to deactivate subtitles.
- The **REVEAL** can be used to display hidden information such as solutions to riddles and puzzles.
 Press the button again to hide the information.



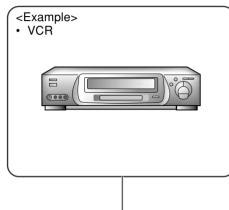
CONNECTING WITH EXTERNAL DEVICES

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.

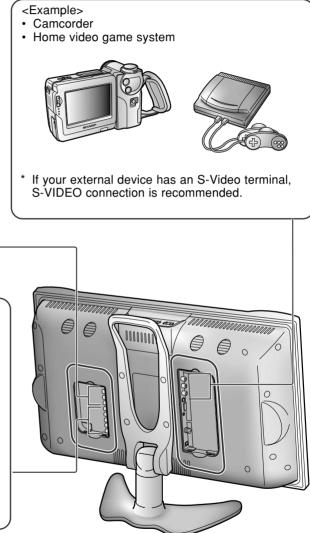
When connecting an external device, turn off the power of the main unit first to prevent any possible damage.

Example of external devices that can be connected

External devices that can be connected to AV-IN2 terminal



External devices that can be connected to AV-IN1 terminal



External devices that can be connected to COMPONENT terminal

<example> • DVD, etc.</example>	
* If your external device has a component terminal, COMPONENT connection is recommended (you can view high-quality pictures).	

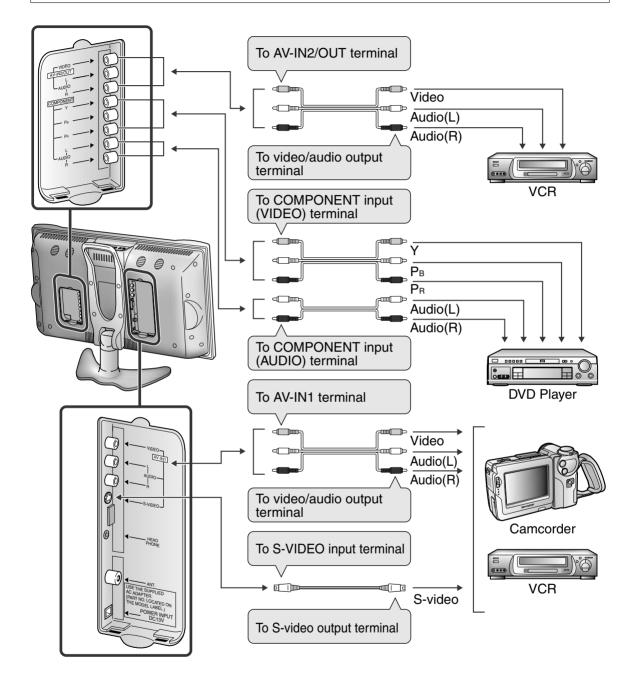
Note: >

- For the cable, use a commercially available audio/video cord.
- Only connect audio/video signals to AV-IN1 and AV-IN2/OUT 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 devices to the S-VIDEO terminal.
- For more information about external device connections, see the manuals of your external devices.



CONNECTING WITH EXTERNAL DEVICES (Continued)

Connecting a VCR, DVD player or a Camcorder (AV-IN1/AV-IN2/OUT/COMPONENT)



Note: >

- If your VCR (or other external devices) has an S-Video terminal, S-VIDEO connection is recommended. (Use an S-video cord.)
- 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.
- When a monaural audio source is connected to only one of the AUDIO input terminals, sound will be heard not from both speakers but from only one speaker.

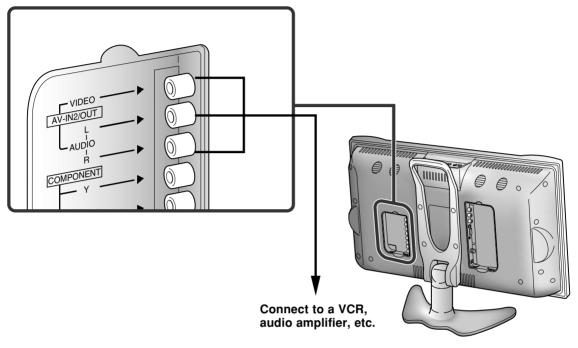
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CONNECTING WITH EXTERNAL DEVICES (Continued)

Outputting video and audio (video output)

You can output video and audio data from the TV set through the AV output terminals (AV-OUT). • When using as an OUTPUT terminal, select FEATURE in the MENU and set AV2 IN/OUT to OUT.

- (See page 21.)
- The factory setting for AV2 IN/OUT is IN.



Note:

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- AV2 has 2 OUT modes (see page 22).
- 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.
- When using the COMPONENT input, no video output will be made to the AV output terminal, but audio output will be made for connection to external audio systems.

How to Fix the Cables

- Fix cables and cords with the attached cable clamps so that they do not get caught when mounting the cover.
- Connect the cables and cords after fixing the cable clamps.

Cable clamps

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TROUBLESHOOTING

Before calling for repair service, check the following items for possible remedies to the encountered symptoms.

Problem	Problem Check item	
Sound Picture 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. 	6 - 11 11
Picture Picture Picture There is no picture from AV-IN 1.	 Make sure the BLACK LEVEL is properly adjusted. Fluorescent lamp may have reached the end of service life. Make sure the S-Video terminal is free of connections. 	19, 20 35 31
There is no sound.	 Make sure the volume is not set to minimum. Make sure the sound is not set to mute. 	12 12
There is no picture or sound, just noise.	 Make sure the antenna cable is properly connected. Bad reception can be considered. 	6
Picture is not clear.	 Make sure the antenna cable is properly connected. Bad reception can be considered. 	6
Picture is light or improperly tinted.	Check colour adjustment. (NTSC mode)	19, 20
The picture is too dark.	 Check if BRIGHTNESS is set to DARK. Check CONTRAST and BLACK LEVEL adjustment. Fluorescent lamp may have reached the end of service life. 	21, 23 19, 20 35
Remote control does not work.	 Check if batteries in the remote control have sufficient power. Make sure the remote sensor window is not under strong fluorescent lighting. 	5 5

TROUBLESHOOTING (Continued)

Antenna

Problem	Check item
The picture is not sharp.	 The reception may be weak. The state of the broadcast may also be bad. Make sure the antenna is facing the right direction. Make sure the outside antenna is not disconnected.
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 power cable. Try positioning them further apart.
There are stripes on the screen or colours fade.	 Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations or 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: -20°C to +60°C)

LCD COLOUR TV COMPARISON

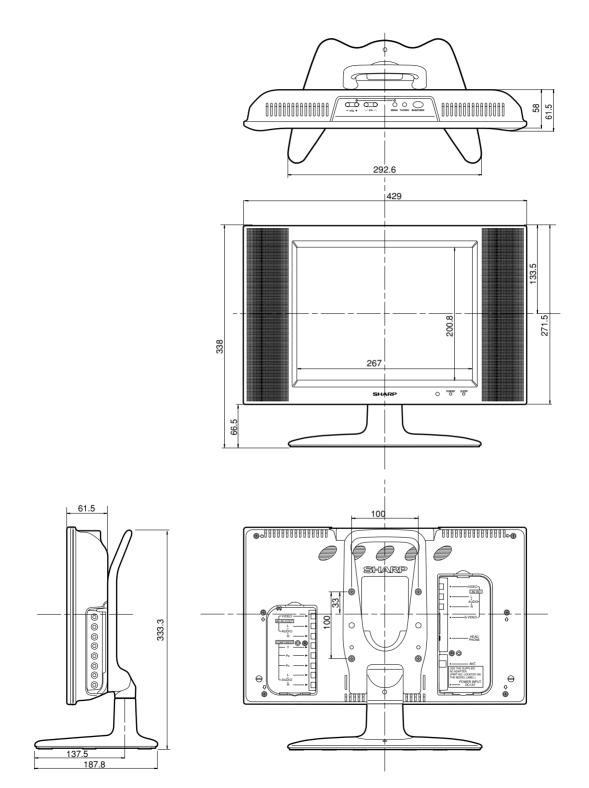
ITEMS	MODEL	LC-13B4M	LC-15B4M	LC-20B4M	
		13" (33 cm) Advanced Super View & BLACK TFT LCD	15" (38 cm) Advanced Super View & BLACK TFT LCD	19.7" (50 cm) Advanced Super View & BLACK TFT LCD	
Number of dots		921,600 dots VGA			
Video colour systems		World multi system			
TV FUNCTION	TV Standard	I/DK/M/BG			
	TV Tuning System	Auto preset tuning			
	STEREO/BILINGUAL	NICAM-BG, I, DK/IGR-BG			
	Universal R/C for TV only	Yes			
	AUTO PRESET	Yes			
	CATV	S1~S41 ch. Hyper Band			
4-LINE DIGITAL COMB FILTER		Yes			
Brightness		430 cd/m ²			
Lamp life		60,000 Hours			
Viewing angles		H: 170° V: 170°			
Audio output		2.1W×2		2.5W×2	
Speakers		4×7 cm Oval, 2 pcs		5 cm ø, 2 pcs	
	AV1	Composite Video, S-Video,	Audio		
Terminals	AV2 IN/OUT	Composite Video/Audio			
	Component	Y, Pв, Pr/Audio			
Headphone	jack	3.5 mm ø jack (Rear)			
OSD LANGUAGE		English/Chinese/Arabic			
Power requirement		DC 12 V, AC110-240 V, 50/60Hz		DC 13V, AC110-240 V, 50/60Hz	
Weight		4.4 kg w/o accessories	5.2 kg w/o accessories	8.7 kg w/o accessories	
Accessories		Wireless Remote Contorol, Batteries, Cable clamps, AC adapter, AC cord, Operation manual, Antenna cable			

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

DIMENSIONAL DRAWINGS

LC-13B4M

Unit: mm

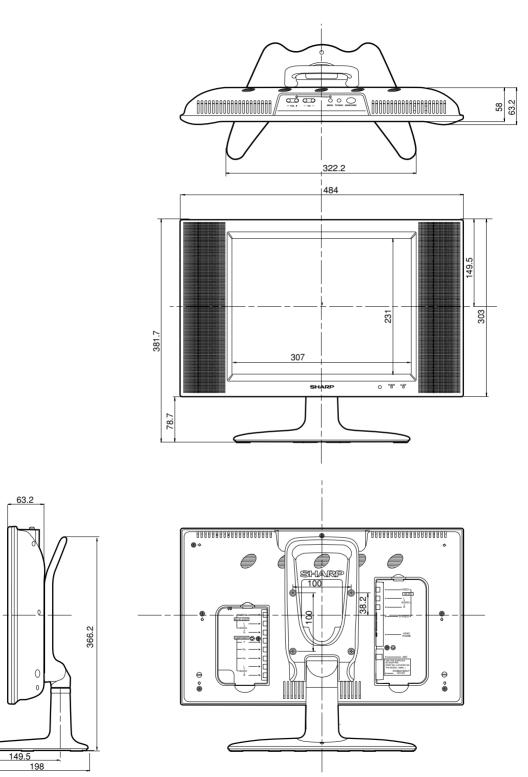


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DIMENSIONAL DRAWINGS (Continued)

LC-15B4M

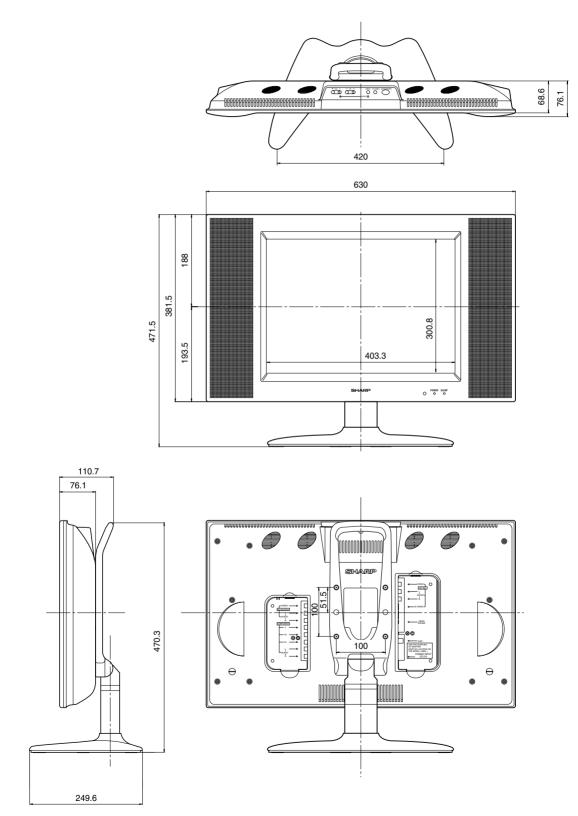
Unit: mm



DIMENSIONAL DRAWINGS (Continued)

LC-20B4M

Unit: mm





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