

LC-22AA1M

LCD COLOUR TELEVISION 液晶彩色電視機 液晶彩色电视机

AQUOS

OPERATION MANUAL 使用説明書 使用说明书



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中文

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LC-22AA1M

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 troublefree 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.

- 1. Read instructions—All operating instructions must be read and understood before the product is operated.
- 2. Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- 3. Observe warnings—All warnings on the product and in the instructions must be observed closely.
- 4. Follow instructions—All operating instructions must be followed.
- 5. Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- 6. 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.
- 7. AC cord protection—The AC 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.
- 8. Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
- 9. 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.
- 10. 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.
- 11. Repair—If any of the following conditions occur, 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.
- 12. 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.
- 13. 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.
- 14. Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

Important Safety Precautions

• 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, laundry tub, swimming pool and in a wet basement.



• Stand—Do not place the product on an unstable cart, stand, tripod or table. Doing so 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.

stops, excessive force and

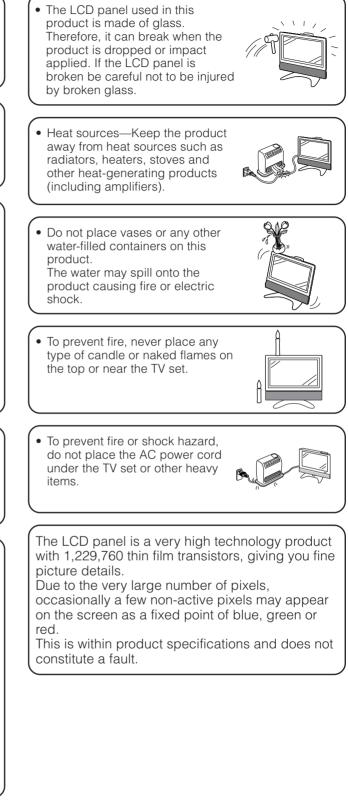
uneven floor surface can cause the product to fall from the cart.

mounting hardware recommended by the manufacturer. When relocating the product placed on a cart, it must be moved with utmost care. Sudden



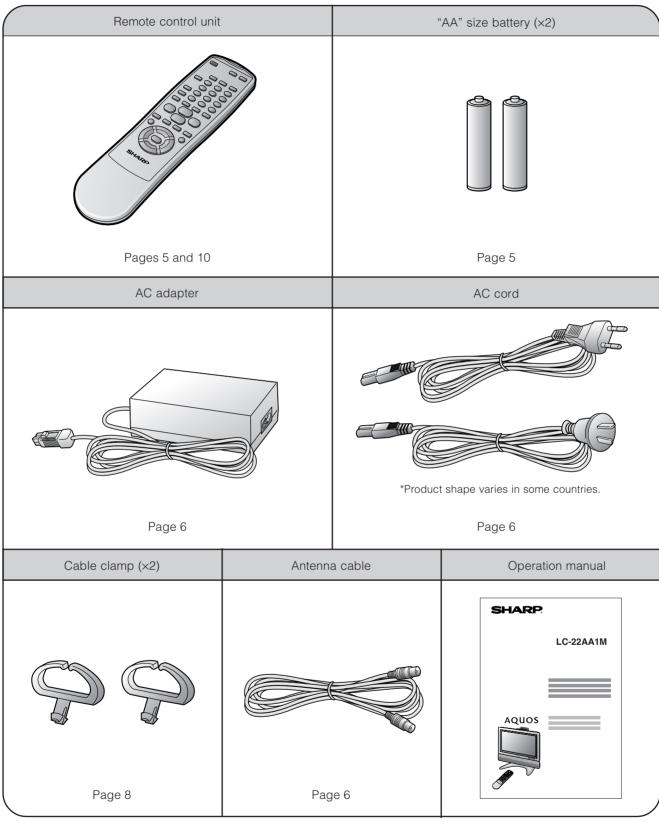
· Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since 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.





Supplied accessories

Make sure the following accessories are provided with the product.

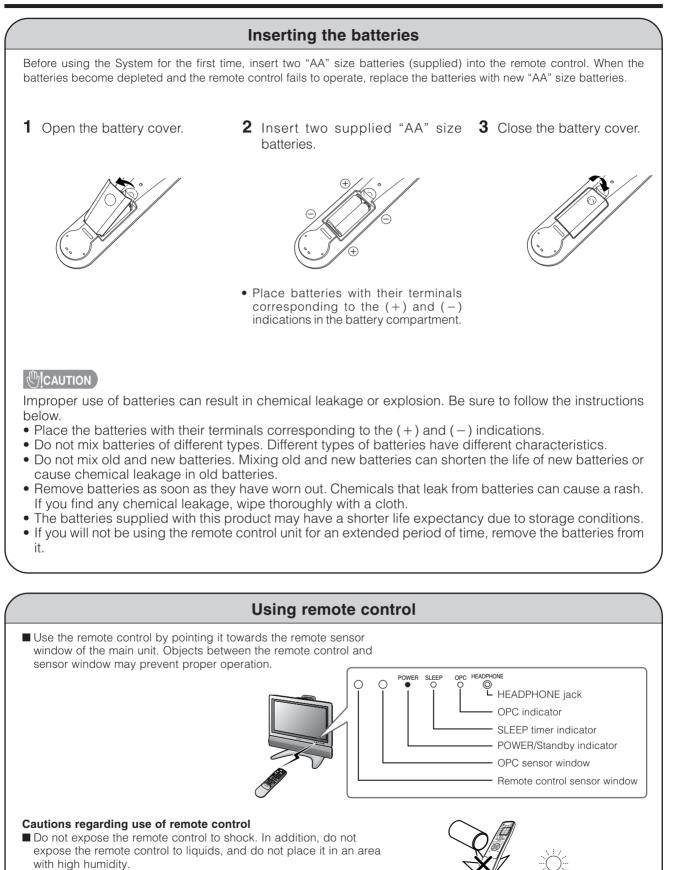


Trademarks

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

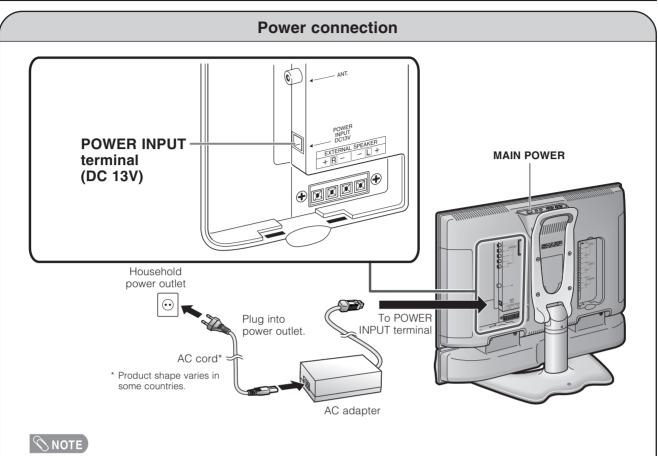
Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

Preparation

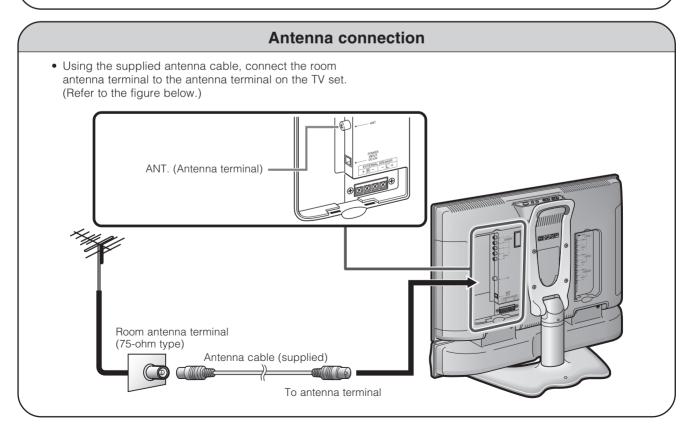


- Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
- The remote control may not work properly if the remote sensor window is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or main unit, or operate the remote control closer to the remote sensor window.

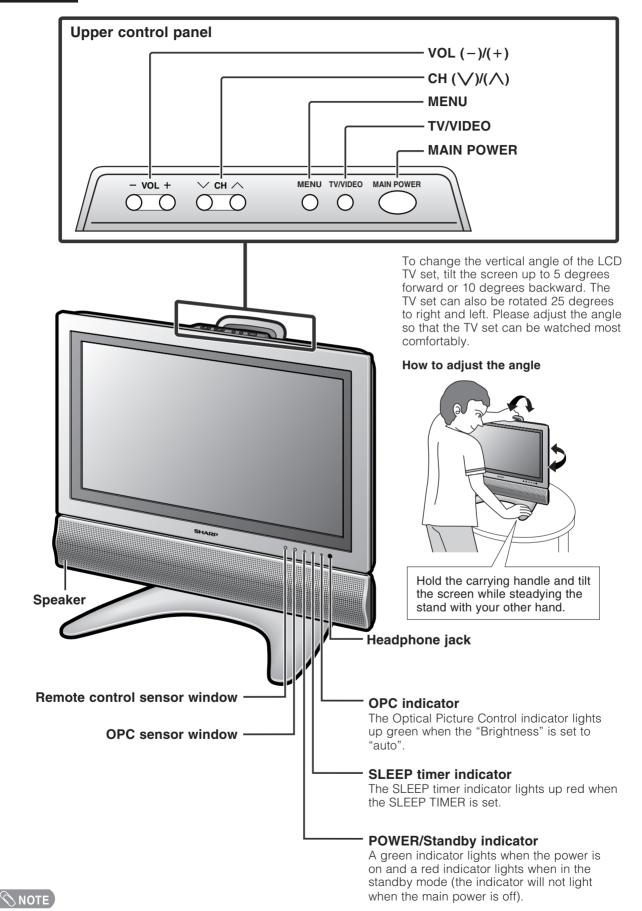
Preparation



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



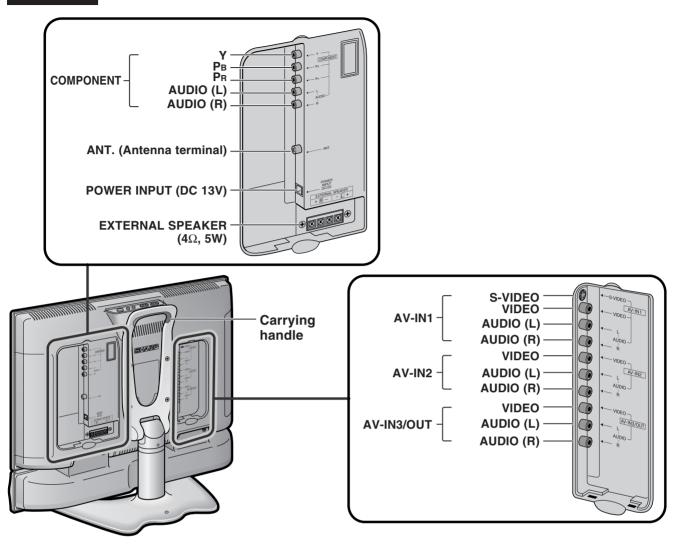
Controls



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

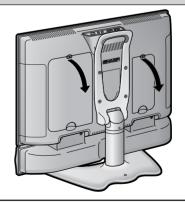
Part Names – Main Unit

Terminals



Removing the terminal covers

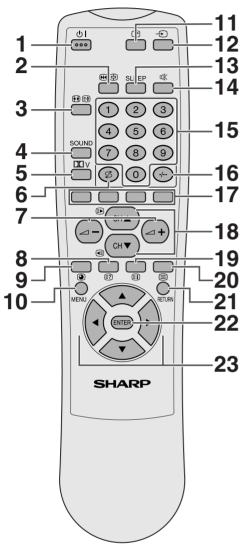
- Before connecting cables and cords into the rear terminals, remove the terminal covers. Push in the tabs and pull out the covers carefully.
- To mount the terminal cover, insert the 2 hooks on the bottom of the cover into the cabinet and press on the upper part of the cover until the tab locks in place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



How to fix the cables • Secure cables and cords with the supplied cable clamps so that they do not get caught when mounting the cover. Cable clamps

Part names – Remote control unit

Remote control unit



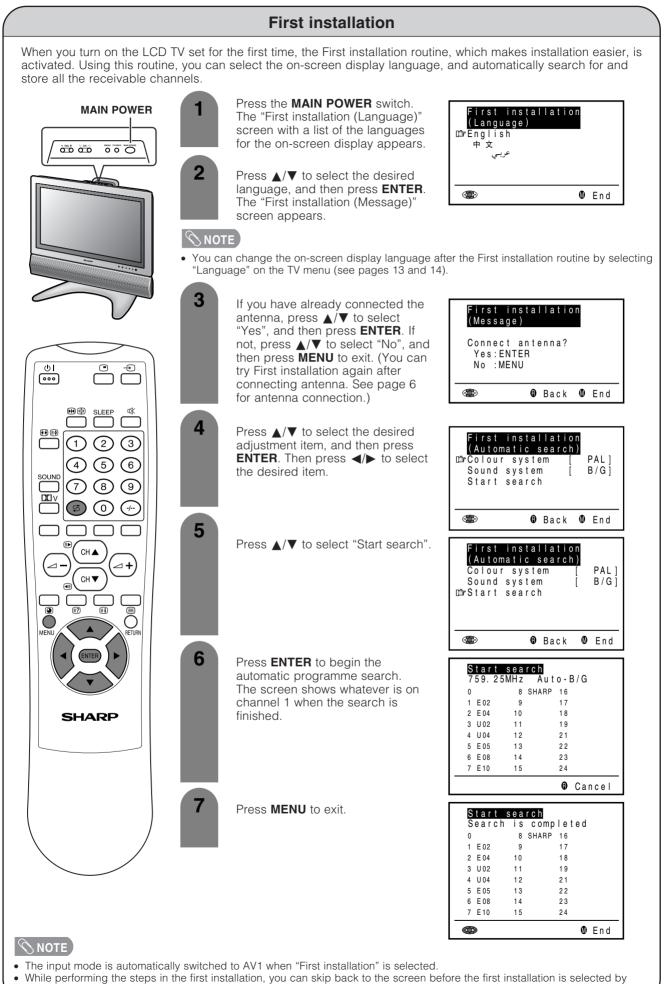
- When using the remote control unit, point it at the Display.

1 (¹) | (STANDBY/ON) To switch the power on and off. (See page 11.) 2 (FREEZE/HOLD for TELETEXT) TV/External input mode: Change the still image mode. TELETEXT mode: Freeze a multi-page on screen while other pages are automatically updated. Press (R) (=) again to return to the normal image. (See page 28.) (WIDE MODE/ T/B/F) 3 TV/External input mode: Change the wide image mode. (See page 23.) TELETEXT mode: Set the area of magnification. (full/upper half/ lower half) (See page 31.) 4 SOUND Select the sound multiplex mode. (See pages 29 and 30.) 5 Select Dolby Virtual Surround settings. (See page 18.) 6 (Flashback) Press to return to the previous channel in normal viewing mode. Press to return to the previous page in TELETEXT mode. 7 ___+ (VOL) Set the volume. (See page 12.) 8 (Reveal hidden for TELETEXT) TELETEXT mode: Display hidden characters. (See page 31.) () (SUBPAGE for TELETEXT) 9 TELETEXT mode: Change the picture mode for sub-page selecting. (See page 32.) 10 MENU Display the MENU screen. (CHANNEL INFORMATION) 11 Display the channel information. 12 → (INPUT SOURCE) Select an input source. (TV, AV1, AV2, AV3, COMPONENT) (See page 11.) 13 SLEEP Set the Sleep timer. (See page 15.) · (MUTE) 14 Mute the sound. (See page 12.) 15 0 - 9TV/External input mode: Set the channel. TELETEXT mode: Set the page. -/-- (Digit for channel select) 16 Change the digits of the selected TV channel. (See page 12.) 17 Colour (RED/GREEN/YELLOW/BLUE) TELETEXT mode: Select a page. (See page 31.) $CH_/CHV(D/C)$ 18 TV/External input mode: Select the channel. TELETEXT mode: Set the page. (See page 31.) (TOP Overview for TELETEXT) 19 TELETEXT mode: Display an index page for CEEFAX/FLOF information. TOP Overview for TOP programme. (See page 32.) 20 (TELETEXT) Select the TELETEXT mode. (all TV image, all TEXT image, TV/TEXT) image) (See pages 31 and 32.) RETURN 21 MENU mode: Return to the previous menu screen. 22 ENTER Execute a command. Return to the initial image position after moving with A/V/A/b. 23 $\land / \lor / \checkmark / \lor (Cursor)$ Select a desired item on the setting screen.

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Move the picture on the screen.

Basic operation



pressing **Flashback** (\$).

Basic operation

MAIN POWER



POWER/Standby indicator



Turning the main power on and off

Press the MAIN POWER switch. The POWER/ Standby indicator instantaneously changes from red to green and the main unit is turned on

- The On-screen indicator disappears after a few seconds
- To turn off the main power, press the MAIN POWER switch.

ON/OFF Standby

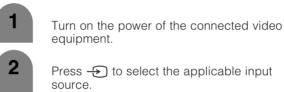
To turn off the LCD TV

Press (1) I. The POWER/Standby indicator will turn red.

To turn the LCD TV back on

Press 🕛 | again. The POWER/Standby indicator will turn green.

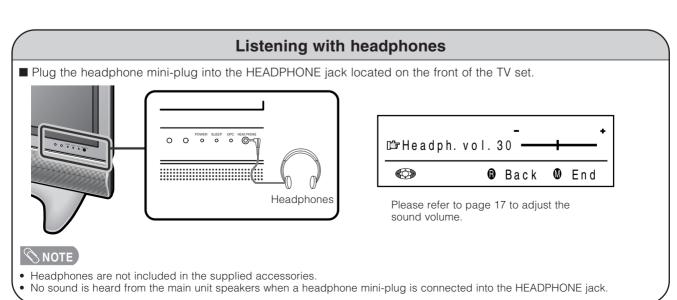
Switching the TV/VIDEO (TV/AV1/AV2/AV3/COMPONENT) mode



Press \rightarrow to select the applicable input

The screen displays AV1, AV2, AV3, COMPONENT or TV mode each time \rightarrow is pressed.

- The AV input mode indication remains for 6 seconds.
 - AV1: Video equipment connected to the AV-IN1 input terminals An S-video input terminal is additionally provided for the AV-IN1 input. If both the S-video terminal and normal video terminals are connected with
- cables, the S-video input terminal takes priority. • AV2: Video equipment connected to the AV-IN2 input
- terminals • AV3: AV3 mode is used to adjust the preset settings
 - and IN3 or OUT can be selected. AV3 indication is not displayed when OUT is selected. (See page 19.)
- COMPONENT: Video equipment connected to the COMPONENT input terminals.



On-screen display

TV mode

AV1 mode

AV1

AV2 mode

A V 2

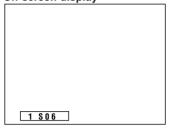
AV3 mode

A V 3

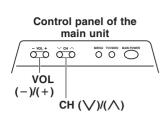
COMPONENT mode

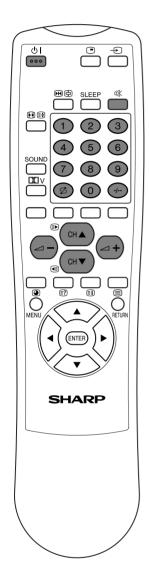
COMPONENT

1 S06



Basic operation





Sound volume

To adjust the volume

- Press *+* to increase the sound volume. The bar indicator shifts right.
- Press _____ to decrease the sound volume. The bar indicator shifts left.

To mute the sound

- Press 🕸 (Mute) to temporarily turn off the sound. "Sound off" is displayed.
- Press X (Mute) to turn off the Mute function. "Sound on" is displayed.

ΝΟΤΕ

- When \frown (+/-) is pressed in the Mute mode, the sound turns on and the volume indicator is displayed.
- The Mute function is cancelled when **U** is pressed.

Changing channels

You can select channels using 0 - 9 or CH \blacktriangle/∇ .

 To handle the increasing number of channels available, this LCD TV set allows you to select up to 100 channels (0 to 99).

Using 0 – 9 on the remote control unit

Select the channels directly by pressing buttons **0 – 9**.

EXAMPLE 🛛 🤫

- Press 2. If "2" is indicated and the picture does not change, press -/-- to switch over to the 1-digit select mode and press 2 again.
- To select a 2-digit channel (e.g. channel 12): • Press -/-- to set the 2-digit select mode. Press 1, followed by 2.

Using CH ▲/▼

Press $CH \blacktriangle$ 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: $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow 99 \rightarrow 98 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$

- · Channel "0" is reserved for RF output of VCR.
- Complete this procedure within 3 seconds, otherwise the selection will not be made on the 2digit channel mode.

When viewing Teletext information

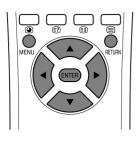
View a page directly which is 3-digit page number from 100 to 899 by pressing buttons 0 - 9. With Teletext, you do not use -/--. (See page 31).

Using Flashback (₲) on the remote control unit

Press 🗲 to switch the currently tuned channel to the previously tuned channel. Press 😴 again to switch back to the currently tuned channel.

	Volume 42 ***** ****
	Volume 5 IIIII
S o u	nd off

Sound on



Selecting menu items

• The menus can be used to adjust the various settings of your LCD TV set. Select the desired menu item by following the steps below.

Using TV Menus

1

2

3

2

3

4

5

Press **MENU** on the remote control to display the TV menu.

- Press ▲/▼ to select the desired menu item.
 The cursor moves up or down.
- The cursor indicates the selected menu item.

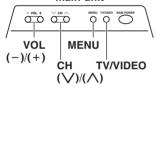
Press **ENTER** to display the setting screen for the selected menu item.

Press ENTER again to adjust the selected item.
See the next page for a table of the setting screens.

Press \triangleleft b to adjust the selected item.

Press **RETURN** to return to the previous screen or **MENU** to return to the normal screen.

Control panel of the main unit



Using Direct Control Menu

Press **MENU** on the main unit to display the TV menu.

Press **CH** (\bigvee)/(\land) to select the desired menu item.

- The cursor moves up or down.
- The cursor indicates the selected menu item.

Press **TV/VIDEO** to display the setting screen for the selected menu item. • Press **TV/VIDEO** again to adjust the selected

Press TV/VIDEO again to adjust the selected item.

Press VOL (-)/(+) to make the adjustment.

Press MENU to return to the previous screen.
Each time MENU is pressed, you will return to the previous 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.



TV menu

r≌⊒Picture

Audio

ch Preset

🖾 Features

Elanguage

AV connections

First installation

🛙 Back

»

»

»

»

»

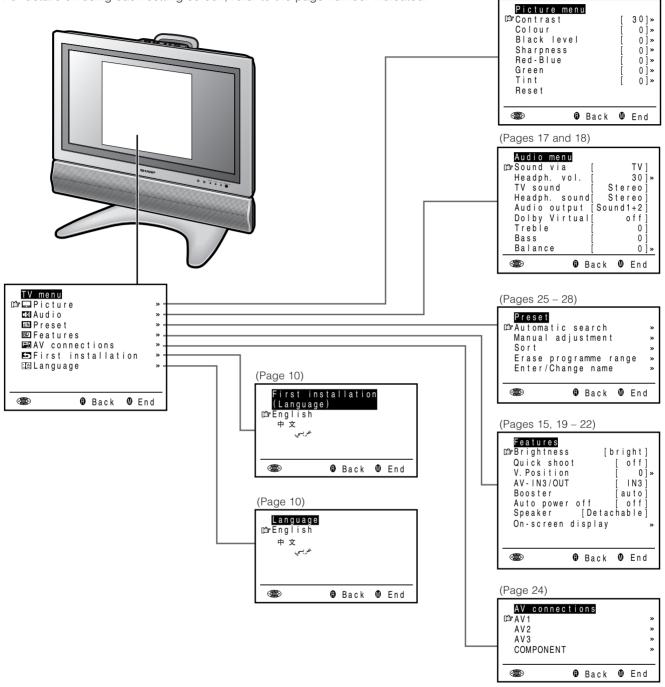
»

🛛 End

Selecting menu items (Continued)

TV Menu Setting Screens

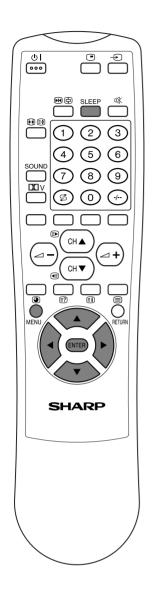
For details on using each setting screen, refer to the page number indicated.



(Page 16)

NOTE

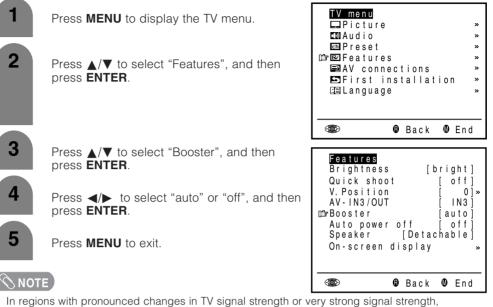
• The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual operations.



Booster

When set to "auto", picture noise is reduced for TV broadcast signal strength from moderate regions.

Automatically sets to "off" for a strong electrolytic signal that has a constant level.



In regions with pronounced changes in TV signal strength or very strong signal strength, the effect is negligible and may produce instability. In such case, turn the setting "off". The built-in TV booster cannot handle regions with extremely weak signal strength. After consulting with the store of purchase, please attach an external booster antenna.

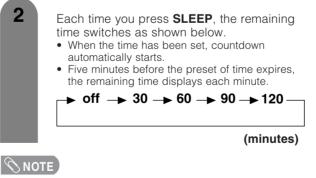
Sleep timer

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

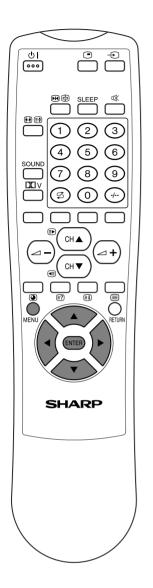
Press SLEEP.

Remaining time displays when sleep timer has been set.

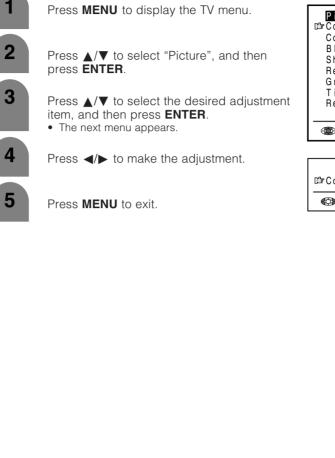
Sleep Timer 30



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



Picture

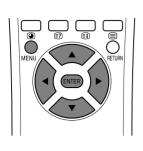


Picture menu C⊅rContrast Colour Black level Sharpness Red-Blue Green Tint Reset	[[[[30]» 0]» 0]» 0]» 0]» 0]» 0]»
🍩 🕄 Back	0	End

C⊡rContrast	30	+t
0	9 Back	🛛 End

Adjustment item	Press Left (◀)	Choice/Value range	Press Right (▶)	
Contrast	Decrease contrast	060	Increase contrast	
Colour	Lower colour intensity	-30+30	Higher colour intensity	
Black level	Less brightness	-309+30	More brightness	
Sharpness	Soft picture	-30+30	Sharp picture	
Red-Blue	More red	-309+30	More blue	
Green	Less green	-309+30	More green	
Tint *	Towards purple	-309+30	Towards green	
Reset	Reset value (Press ENTER.)			

* "Tint" is only visible when "N358" or "N443" signal has been input into the unit.



Audio

Δ

Press MENU to display the TV menu.
 Press ▲/▼ to select "Audio", and then press ENTER.
 Press ▲/▼ to select the desired adjustment item, and then press ENTER.

Each item can now be selected or the next menu appears.

Press $\triangleleft/\triangleright$ to make the adjustment.

Press **MENU** to exit.

Audio menu D≆Sound via Headph. vol. TV sound Headph. sound Audio output Dolby Virtual	[Sound1+2]
Treble Bass	
Balance ® B	[∪]» ack Ø End

	-	•
≌Headph.	vol. 30 —	+
	🛙 Back	🛛 End

Adjustment item	Press Left (◀)	Choice/Value range	Press Right (▶)
Sound via	_	TV↔Hi-fi	_
Headph. vol. (*1)	Decrease headphones volume	060	Increase headphones volume
TV sound		Stereo↔Mono/Sound1↔ Sound2⇔Sound1+2↔Mono Nicam↔Mono/Mono	
Headph. sound (*1)	_	(* The choices differ depending on whether or not a NICAM or A2 stereo signal is received.) See pages 29 and 30.	_
Audio output	_	Sound1↔Sound2↔Sound1+2	_
Dolby Virtual (*1)		off↔on	
Treble (*1)	For weaker treble	-309+30	For stronger treble
Bass (*1)	For weaker bass	-309+30	For stronger bass
Balance (*1), (*2)	Increase the volume of the left speaker	-30+30	Increase the volume of the right speaker

(*1) These items are not displayed when the "Sound via" item is set to "Hi-fi".

2

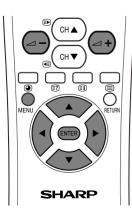
3

Δ

5

(*2) "Balance" is not selectable when "Dolby Virtual" is set to "on".

• In the "Audio output" item, mono-video recorders should select "Sound1" or "Sound2". Stereo-video recorders should select "Sound1+2" so that the desired sound can be selected when playing back the video.



Hi-fi sound

This function allows you to enjoy higher sound quality when connecting AV-IN3/ $\ensuremath{\mathsf{OUT}}$ terminals to an external amplifier.

To use this function, set "AV-IN3/OUT" setting to "OUT" in the Features menu (see page 19).

Select "Hi-fi" for "Sound via" item in the Audio menu.

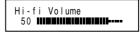
• The sound from the built-in speakers will be turned off.

Press \blacktriangle/∇ to select the desired adjustment item, and then press **ENTER**.

Press **◄/**► to select the Audio mode.

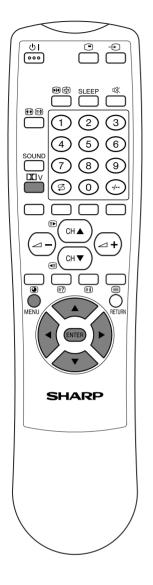
Press MENU to exit.





 Pressing (+/-) will display the volume indicator shown above. You can adjust the volume by pressing (+) or (-) on the same button.

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Dolby Virtual

You can enjoy the Surround 2ch stereo with Dolby Pro Logic II technology.

Virtual Dolby Surround is a technology certified by Dolby Laboratories that creates a virtualised surround sound experience from two speakers using Dolby Pro Logic or Dolby Pro Logic II.

Virtual Dolby Surround retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

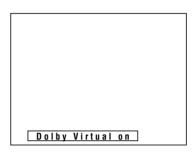
Directly setting the Virtual Dolby Surround



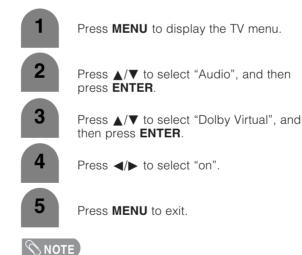
Press **DOV** to display the Dolby Virtual screen.



Press DC V to select "on".
Pressing DC V will turn on and off the Dolby Virtual function.



Setting the Virtual Dolby Surround on the menu screen



🖆 🗊 Audio » 🗈 Preset » 🖾 Features » AV connections » EFFIrst installation » 🔳 Language 🛙 Back 🛛 End Audio menu TV 1 Sound via Headph. vol. 30 İ » TV sound Stereo Headph. sound[Stereo Audio output [Sound1+2 PDolby Virtual] on on Treble 0 Bass 0 Balance 0

🛙 Back

🛛 End

<mark>TV menu</mark> ⊑⊒Picture

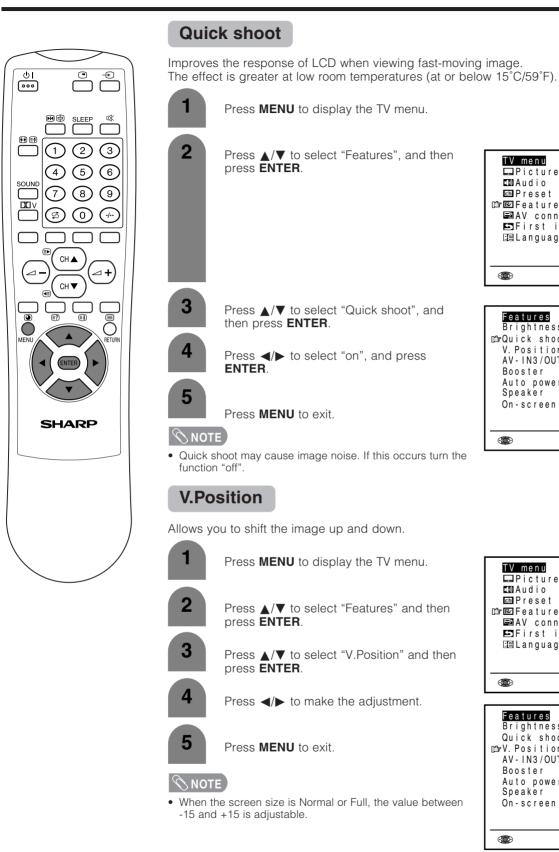
from the headphones.When "on" is selected in the Dolby Virtual setting, you cannot adjust "Balance".

Virtual Dolby Surround does not work when sound is output

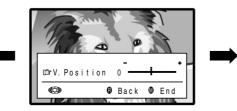
 For some discs, setup may be required on your DVD. In this case, please refer to the operation manual of your DVD player.

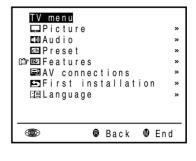
	Feat	tures	
	The Feat	ures items can be set by the user.	
MENU RETURN	1	Press MENU to display the TV menu.	TV menu ⊑Picture » ©DAudio »
	2	Press ▲/▼ to select "Features", and then press ENTER.	Im Preset » Im Im Features » Im AV connections » Im First installation » Im Language »
			🐨 🎯 Back 🐠 End
	3	Press ▲/▼ to select the desired adjustment item, and then press ENTER . Press ◄/ ► to make the adjustment. (Except	Features DomBrightness [bright] Quick shoot [off] V.Position [0]» AV-IN3/OUT [IN3]
	5	"On-screen display" menu item) Press MENU to exit.	Booster [auto] Auto power off [off] Speaker [Detachable] On-screen display »

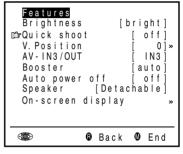
Selected item	Factory setting		Adjustable item/range	
Brightness	[bright]	Maximum brightness	[normal] [dark] [auto]	Brightness 60% \rightarrow Suitable for viewing in well-lit areas. Saves energy. Brightness 20% \rightarrow Sufficiently bright when viewing in dim areas. Screen brightness adjusts according to the ambient light of the room to conserve power consumption. When setting to "auto", make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.
Quick shoot	[off]	This feature is inactive.	[on]	Improves LCD response when viewing fast-moving images. The effect is greater at low room temperatures (at or below 15°C/59°F).
V.Position	[0]	Normal image	Image shifts When scree	en size is Zoom 14:9, Panorama or Cinema 16:9: s down. $-30 \xrightarrow{i} \longrightarrow 30$ Image shifts up. en size is Normal or Full: s down. $-15 \xrightarrow{i} \longrightarrow 15$ Image shifts up.
AV-IN3/OUT	[IN3]	AV-IN3 terminals are selected as input terminals.	[OUT]	Line Output is selected. AV-OUT is available.
Booster	[auto]	Picture noise is reduced for TV broadcast signal strength from moderate regions.	[off]	This feature is inactive.
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.
Speaker	[Detach Select tł speaker	nis when using internal	[External]	Select this when using external speaker.

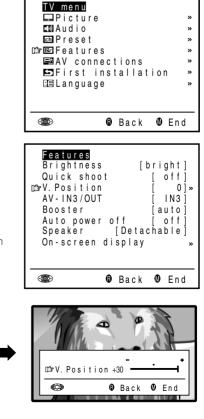








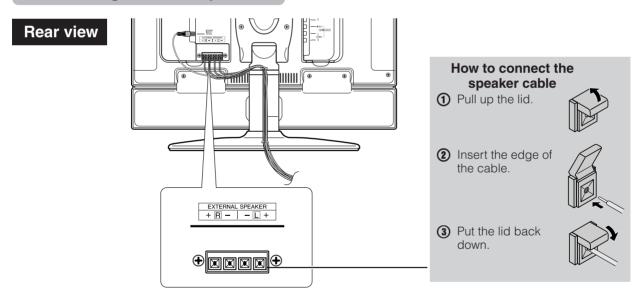




GB -20

Sele	cting speakers	
You can ers.	output audio using the supplied speakers (deta	achable) or other external speak-
1	Press MENU to display the TV menu.	<mark>TV menu</mark> ⊑⊐Picture »
2	Press ▲/▼ to select "Features", and then press ENTER .	DIAudio » DPreset » DEFeatures » DEAV connections » DEFirst installation » DELanguage »
3	Press ▲/▼ to select "Speaker", and then press ENTER .	Eeatures
4	Press ◄/ ► to select "Detachable" or "External", and then press ENTER .	Brightness [bright] Quick shoot [off] V.Position [0]» AV-IN3/OUT [IN3] Booster [auto] Auto power off [off]
5	Press MENU to exit.	©rSpeaker [Detachable] On-screen display »

Connecting external speakers



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

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

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

- The speaker jacks have plus (+) and minus (-) polarity.
- Plus is red and minus is black.
- The cables are also divided into plus and minus.
- When connecting the left/right speakers, be sure to connect the plus/minus jacks with the correct cables.

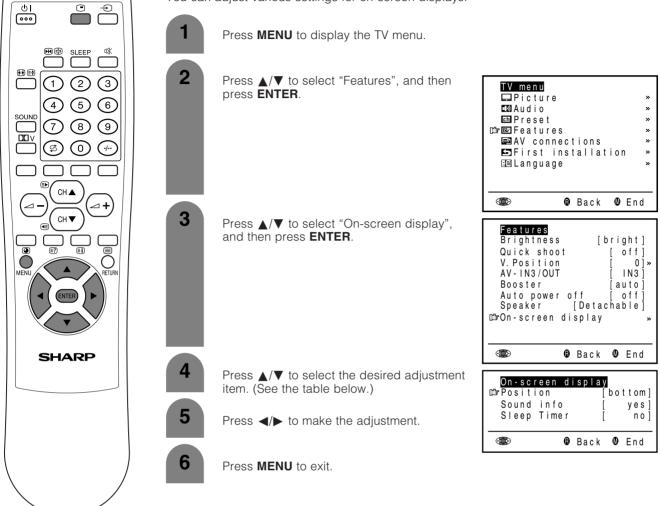
🚫 NOTE

- See page 8 for bundling the cables of the external speakers.
- Unplug the AC cord from the AC outlet before installing the speakers.
- When using the TV with the supplied stand attached, do not remove the speaker. Doing so may disturb the balance leading to product damage or personal injury.

🖲 Back 🗶 End

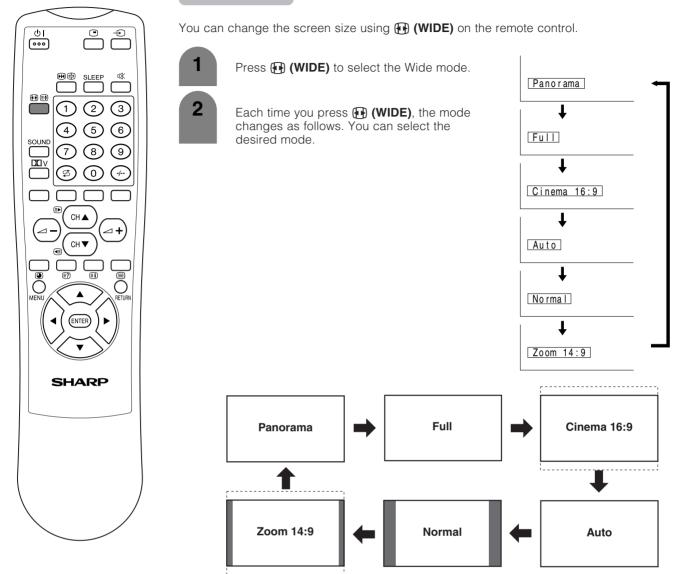
On-screen display

You can adjust various settings for on-screen displays.



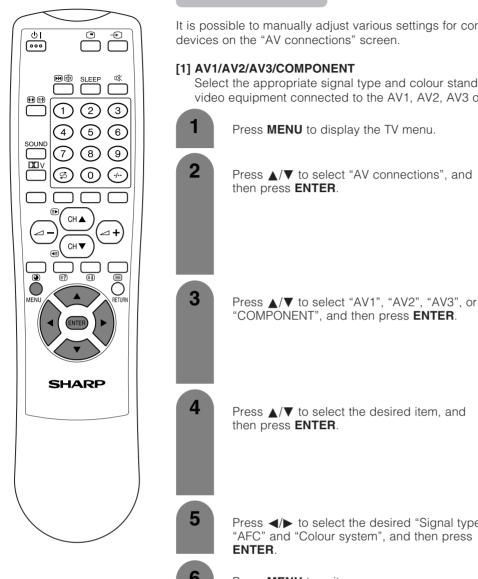
Adjustment item	Choice/Value range	Description
Position	bottom ↔ top	To select the position of the On-screen display.
Sound info	und info yes ↔ no To select whether or not sound information is to be displayed, channel has been selected.	
Sleep Timer	no ↔ yes	To select information to be displayed in the On-screen display. To activate the On-screen display, use the <a>D button.

Wide mode



Selected item	Description
Panorama	In this mode the picture is progressively stretched toward each side of the screen.
Full	For 16:9 squeeze pictures.
Cinema 16:9	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Auto	The Wide mode is switched automatically based on WSS (Wide Screen Signalling) informa- tion
Normal	For 4:3 "standard" pictures. A side bar appears on each side.
Zoom 14:9	For 14:9 letterbox pictures. A thin side bar appears on each side, and you may also see bars on the top and bottom with some programmes.

- WSS (Wide Screen Signalling) information refers to the original wide mode information sent from the broadcasting station.
- When Auto is selected, the Panorama mode is selected automatically in the case WSS information indicates the 4:3 mode.
- Try to set Wide mode if an image does not switch to the correct screen format. When the broadcast signal contains no WSS information, the function will not work even if enabled.
- The Wide mode screen will disappear automatically after 4 seconds.



AV connections

It is possible to manually adjust various settings for connections with external devices on the "AV connections" screen.

[1] AV1/AV2/AV3/COMPONENT

Select the appropriate signal type and colour standard for the signals from the video equipment connected to the AV1. AV2. AV3 or COMPONENT terminal.



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			»
			»
			»
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		tions G Back	

6 Back

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🛛 End

4	Press ▲/▼ to select the desired item, and then press ENTER.	Exam	ple when A selected:	V1 is
		AV1 ≌Signal AFC Colour		[CVBS] [Mode1] [Auto]
		٩	8 Back	🛛 End
5	Press ◄/▶ to select the desired "Signal type", "AFC" and "Colour system", and then press	Exam	ple when A selected:	V2 is
	ENTER.	AV2		
6	Press MENU to exit.	AFC D≌Colour	system	[Mode1] [Auto]

Adjustment item	Choice/Input value	Description
Signal type(*1)	Auto, CVBS, Y/C	To select the signal type of external equipment.
AFC	Mode1, Mode2	To select frequency control modes. Mode1 is suitable for DVD players or decoders, and Mode2 is suitable for VCRs or Camcorders.
Colour system(*2)	Auto, PAL, SECAM, N358 (NTSC 3.58), N443 (NTSC 4.43), PAL60	Colour norm

(*1) "Signal type" is only visible when the AV1 is selected.

(*2) You can only select "Auto", "PAL", "N358", "N443" in "Colour system" when COMPONENT is selected.

S NOTE

- If no (colour) image displays, try to change to a different signal type.
- Depending on the compatibility with the various types of equipment, the picture may become skewed. In this case, select the "AFC" (Automatic Frequency Control) mode that will improve the picture.
- Switching between AV input signals may be slow, depending on the settings in "Colour system". If you want to speed up signal switching, switch "Auto" in "Colour System" to the current reception colour system.

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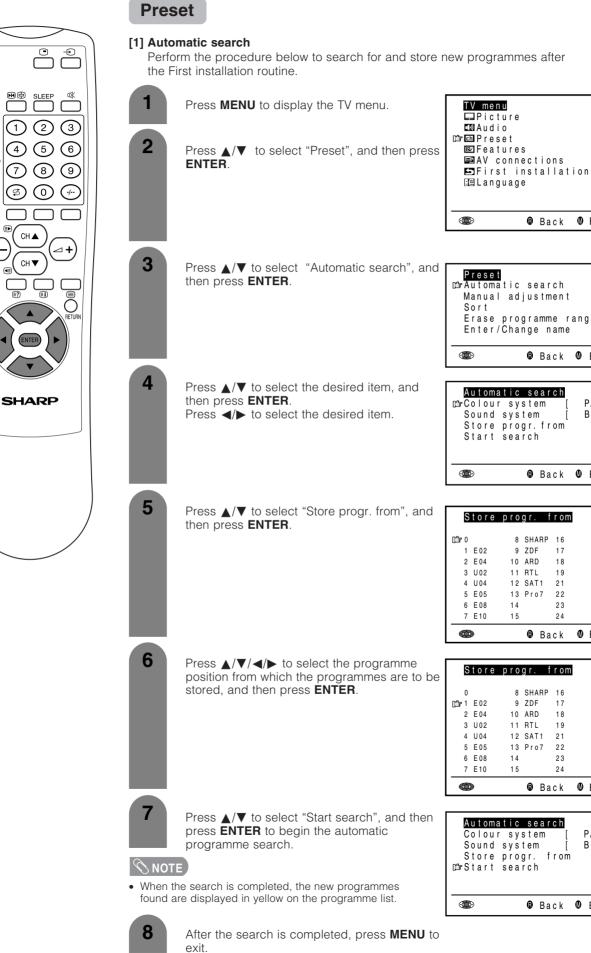
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<mark>Preset</mark> ⊯Automatic search Manual adjustment Sort Erase programme range Enter/Change name

🛙 Back

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🛛 End

Automatic search r∰ Colour system PAL Sound system B/Gj Store progr. from Start search 🛙 Back End

S	tore	pro	gr.f	rom	
[0		8	SHARP	16	
1	E 0 2	9	ZDF	17	
2	E04	10	ARD	18	
3	U 0 2	11	RTL	19	
4	U04	12	SAT1	21	
5	E05	13	Pro7	22	
6	E 0 8	14		23	
7	E10	15		24	
0	>		₿ Ba	ck	Ø) End

Store progr. from 8 SHARP 16 🗂 1 E 02 9 ZDF 17 2 E04 10 ARD 18 3 U 0 2 11 RTL 19 4 1104 12 SAT1 21 5 E 0 5 13 Pro7 22 6 E 0 8 14 23 7 E10 15 24 🛭 Back 🛛 End

Colour Sound	progr. from	PAL] B/G] »
۲	8 Back	Ø End

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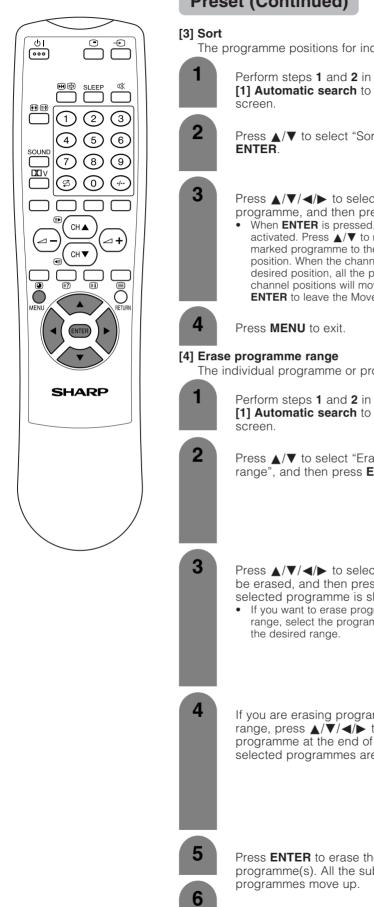
	Preset (Continued)
	2] Manual adjustment Individual settings of programmes can be adjusted.
	Perform steps 1 and 2 in [1] Automatic search to display the "Preset" screen.
 1 2 3 4 5 6 SOUND 7 8 9 Equation (2) /ul>	2 Press ▲/▼ to select "Manual adjustment", and then press ENTER. ^{Preset} Automatic search » ^{C™} Manual adjustment » Sort » Erase programme range » Enter/Change name »
	 3 Press ▲/▼ to select the item, and then press
	 A/▶ to select the itern, and then press A/▶ to make the adjustment. (See the table below for details.) You can also use 0 - 9 to adjust the "Frequency" items. To adjust "Name", first press ENTER to activate the text input mode. Press A/▶ to select the desired character. When you finish inputting,
SHARP	press ENTER to set the name.
	4 Press MENU to exit.

Adjustment item	Choice/Value range	Description
Channel	0–99	The channel changes to the higher or lower channel.
Frequency	044 – 859 (MHz) 041.10 – 871.10	Receivable frequencies depending on TV norm, installation site, and range.
Name	A – Z, 0 – 9, +, -, ., /, !, _	Programme name (up to five characters).
Colour system	Auto, PAL, SECAM N358, N443, PAL60	Colour norm
Sound system	B/G, I, D/K, M, Auto*	TV norm
Skip	off↔on	Channel numbers with a "(•) (RED)" mark on the left are set to Skip.

* You can select "Auto" in sound system only during first installation and automatic search.

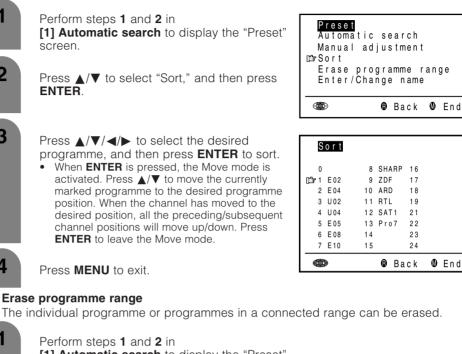
NOTE

• Depending on the settings in the colour system of the channels, switching between channels may be slow. If you want to speed up channel switching, switch "Auto" in "Colour system" to the current reception system (PAL, SECAM, N358, N443 or PAL60).



Preset (Continued)

The programme positions for individual programmes can be freely changed.



Perform steps 1 and 2 in [1] Automatic search to display the "Preset"

Press \blacktriangle/∇ to select "Erase programme range", and then press ENTER.

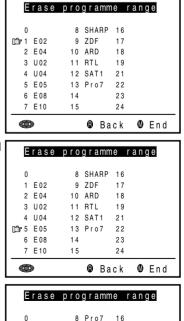
Press A/V/A/b to select the programme to be erased, and then press ENTER. The selected programme is shown in yellow.

 If you want to erase programmes in a connected range, select the programme at the beginning of the desired range.

If you are erasing programmes in a connected range, press $\mathbf{A}/\mathbf{V}/\mathbf{A}/\mathbf{b}$ to select the programme at the end of the range. The selected programmes are shown in yellow.

Press ENTER to erase the selected programme(s). All the subsequent programmes move up.

Press MENU to exit.



Preset

Sort

1 E 08

2 E10

4 ZDF

SAT1

D″⊒ 5 ARD

6 RTL

7

3 SHARP 9

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15

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19 21

22

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🛙 Back

Automatic search Manual adjustment

□ Erase programme range

Enter/Change name

»

»

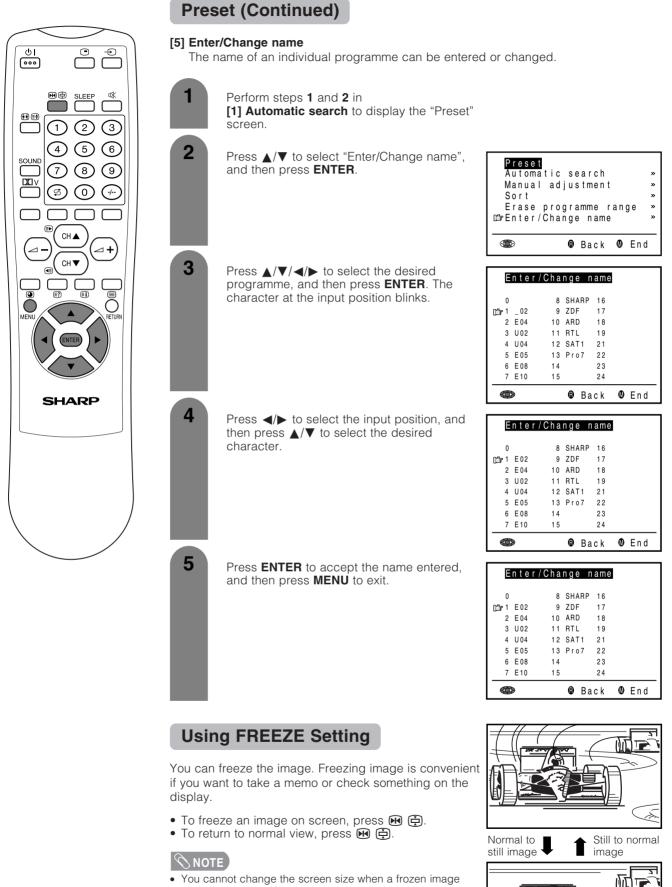
»

End

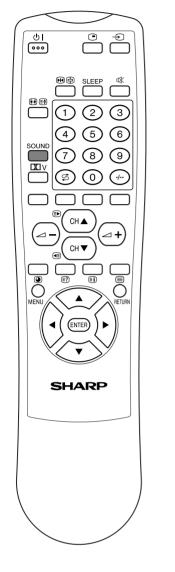
»

»

🖲 Back 🔍 End



- displays.
- Do not let the Freeze screen unattended for a long time.



NICAM broadcast selection

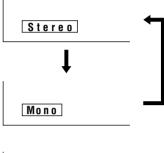
This enables the selection of the reception mode when receiving a NICAM-I or NICAM-B/G signal. To let you enjoy NICAM broadcasting, this LCD TV set receives NICAM system stereo, bilingual, and monaural broadcasts.

Stereo

The LCD TV set is receiving a stereo broadcast.

- Each time you press SOUND, the mode changes between "Stereo" and "Mono".
- When "Mono" is selected, the TV sound is output monaurally.

→ Stereo →	Mono —
------------	--------



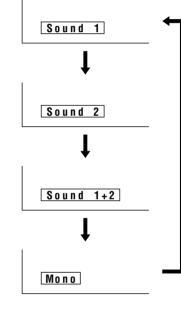
Bilingual

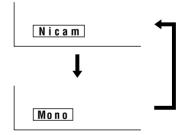
When the LCD TV set is receiving a bilingual programme, the "Sound 1" mode is automatically selected.

• Each time you press **SOUND**, the mode changes as follows:

Sound 1 → Sound 2 → Sound 1+2 → Mono

The LCD TV set is receiving a monaural broadcast.





• Each time you press **SOUND**, the mode changes between "Nicam" and "Mono".

Monaural

r → Nicam → Mono	

- If approximately 3 seconds pass without a button being pressed, the mode setting is automatically terminated and the LCD TV set returns to the normal mode.
- The setting can be individually selected for each channel number.
- You can also turn off the NICÁM mode by setting the "TV sound" item to "Mono" in the Audio screen (see page 17).

<u>୯</u>୮ • Ð SLEFE • (3) 2) (4)(5) (6)SOUNE 9 8 \$ 0 CH 🔺 4 СН 🔻 (ENTER) SHARP

A2 stereo broadcasts

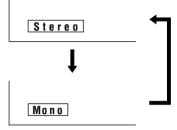
This enables the selection of the reception mode when receiving an A2 stereo signal. To let you enjoy A2 stereo broadcasting, this LCD TV set receives A2 stereo system stereo and bilingual broadcasts.

Stereo

The LCD TV set is receiving a stereo broadcast.

- Each time you press **SOUND**, the mode changes between "Stereo" and "Mono".
- When "Mono" is selected, the TV sound is output monaurally.

→ Stereo —	► Mono —
------------	----------

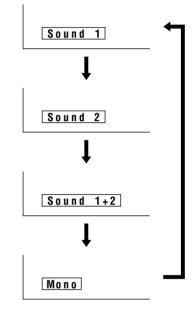


Bilingual

When the LCD TV set is receiving a bilingual programme, the "Sound 1" mode is automatically selected.

• Each time you press **SOUND**, the mode changes as follows:

Sound 1 → Sound 2 → Sound 1+2 → Mono-





- If approximately 3 seconds pass without a button being pressed, the mode setting is automatically terminated and the LCD TV set returns to normal mode setting.
- The setting can be selected individually for each channel number.
- You can also turn off the A2 stereo mode by setting the "TV sound" item to "Mono" in the Audio screen (see page 17).

Teletext

Teletext function

What is Teletext?

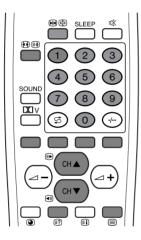
Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your System receives Teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme previews are among the many services available.

NOTE

• Teletext is broadcast in Europe and Asia, excluding regions that use Arabic characters.

Teletext mode

Teletext is turned on/off with (a) on the remote control unit. You can operate your System in Teletext mode directly by inputting commands with the remote control unit.



■ Turning on and off Teletext



Select a TV channel or external input source providing the Teletext programme.

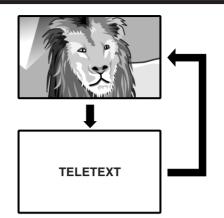


3

Press 🗐 to display the Teletext.

Press () to return to normal screen.

- Each time you press), the screen switches as shown upper right.
- If you select a programme with no Teletext signal, "No Teletext available." displays.



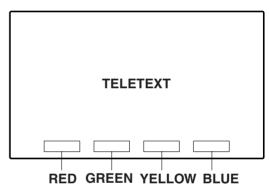
When viewing the Teletext information

- Press CHA ()) to increase the page number.
- Press CH▼ (<) to decrease the page number.

Button functions

Colour (RED/GREEN/YELLOW/BLUE):

You can select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding **Colour (RED/GREEN/ YELLOW/BLUE**) on the remote control unit.

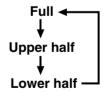


0 - 9:

Directly select any page from 100 to 899 by using $\mathbf{0} - \mathbf{9}$.

(≣♦):

Each time you press (=), the TELETEXT image switches as shown below.



(≣?):

To reveal hidden information such as an answer to a quiz, press (2).

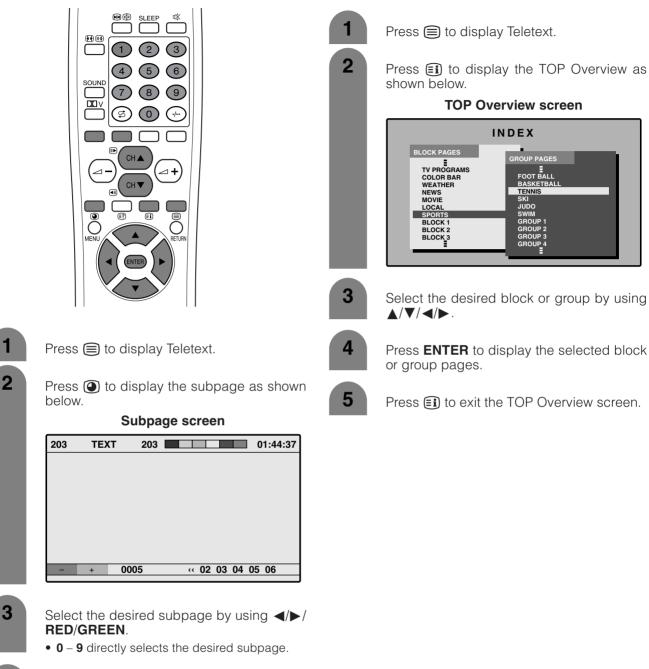
• Press ? again to hide the information.

(غ):

- To stop updating Teletext pages automatically, press 🖨.
- Press again to release the hold mode.

Displaying Subpages

You can display several subpages as they are transmitted.



Displaying TOP Overview

overview.

When receiving TOP Teletext, you can read a TOP text

Press () to exit the subpage screen.

 If you press ⇒/((CH▲/CH▼), the present page will change to the next/previous page and simultaneously exit the subpage screen.

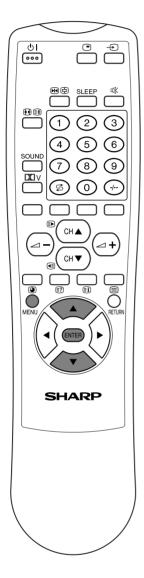
4

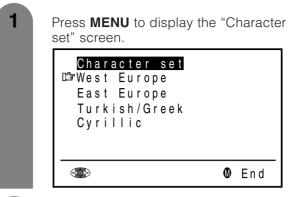
Teletext language setting

If Teletext information does not display correctly, perform the setting procedure below.

Select from among 4 kinds of language tables: West Europe, East Europe, Turkish/Greek, Cyrillic.

Each table is compatible with the Teletext languages listed below.





- Press \blacktriangle/∇ to select the desired character set.
 - The colour of the letters will turn to yellow. When selecting the character set, pressing ENTER will change the letters to magenta for an instant and then return them back to yellow.
 - West Europe English, French, Scandinavian, Czech, German, Spanish, Italian
 - East Europe Polish, French, Scandinavian, Czech, German, Slovenian/Croatian, Italian, Rumanian
 - Turkish/Greek English, French, Scandinavian, Turkish, German, Spanish, Italian, Greek
 - Cyrillic English, Russian, Estonian, Czech, German, Spanish, Ukrainian, Lettish

NOTE

2

• Teletext can display only when it is sent by a network. Not used to convert between languages.



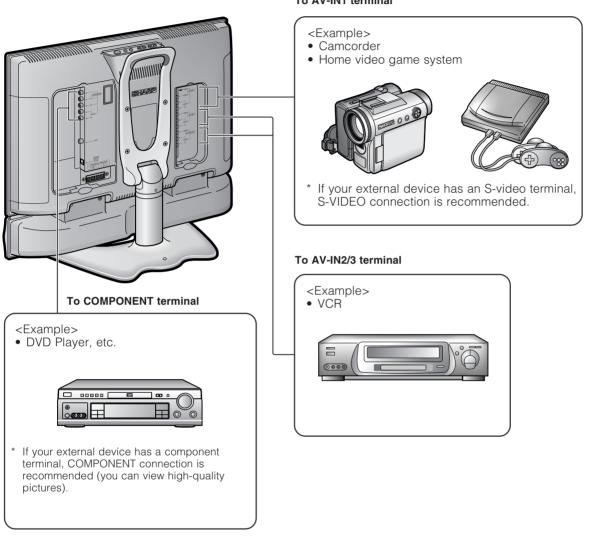
Press MENU to exit.

Connecting external devices

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

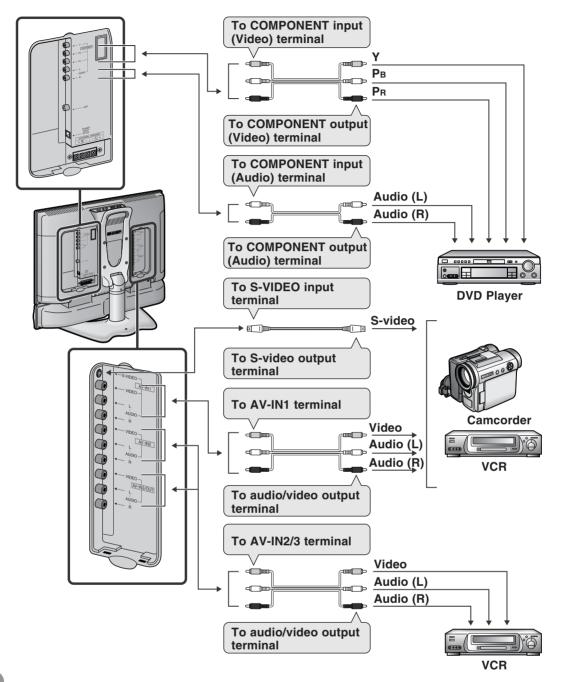
When connecting an external device, turn off the power of the main unit first to prevent any possible damage.

Examples of external devices that can be connected



- PC connection is not possible.
- For the cable, use a commercially available audio/video cable.
- Only connect audio/video signals to AV-IN1, 2 and 3 terminals. Connecting other signals may result in a malfunction.
- AV-IN1 has 2 video input terminals: VIDEO and S-VIDEO. When you connect external devices to both terminals (and if you select AV-IN1), you can only view pictures from the S-VIDEO terminal. To view the picture from the VIDEO terminal, do not connect any external device to the S-VIDEO terminal.
- For more information about external device connections, see the manuals of your external devices.

Connecting a VCR, DVD player or a camcorder (AV-IN1/2/3/COMPONENT)



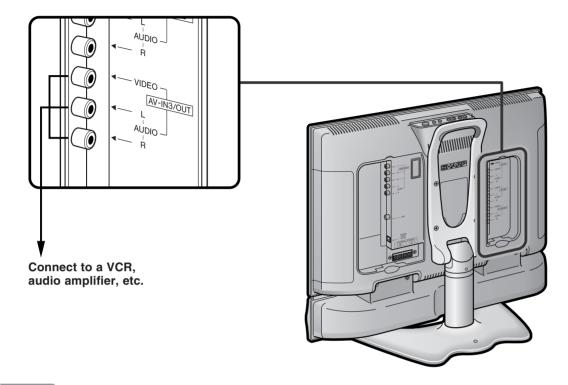
NOTE

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

Outputting video and audio (video output)

You can output video and audio signals from the TV set through the AV output terminals (AV-IN3/OUT).

- When using AV3 as an output terminal, select "Features" in the menu and set "AV-IN3/OUT" to "OUT". (See page 19.)
 The factory setting for "AV_IN3/OUT" is "IN3"
- The factory setting for "AV-IN3/OUT" is "IN3".



NOTE

• When using the Y, PB and PR input for COMPONENT, no video output will be made to the AV output terminal, but audio will be made for connection to external audio systems.

Troubleshooting

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

TV set

Problem	Check item	Reference Pages	
Sound Picture There is no picture or sound.	 Make sure the AC adapter is properly inserted in the power outlet. Reception other than those of broadcasting stations can be considered. Make sure the input mode is set to TV. Make sure the MAIN POWER switch of the main unit is on. 	6 - 11 11	
Picture Picture There is no picture. There is no picture from AV-IN 1/2.	 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. 	16 39 35	
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)	16	
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. 	19 16 39	
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	
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 the LCD TV unit, or unplugging the AC cord and re- plugging it in after 1 or 2 minutes.	_	

Troubleshooting

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.

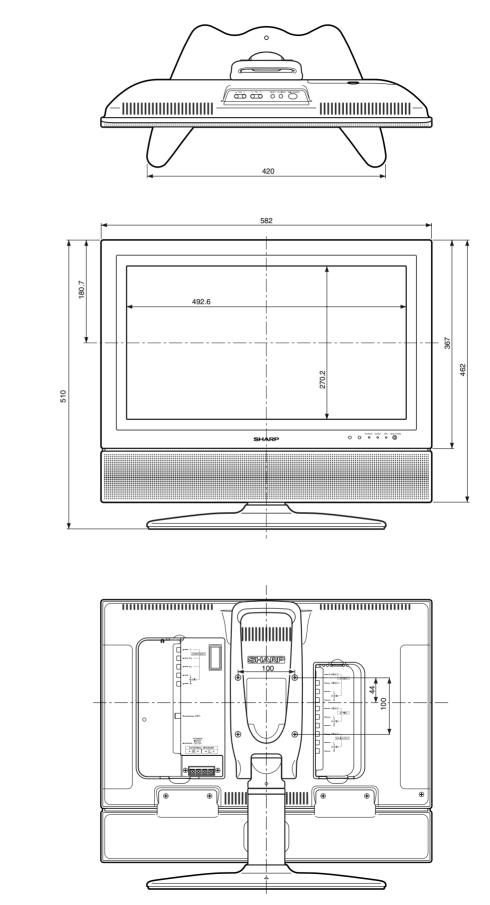
 Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. (Storage temperature: -20°C to +60°C)

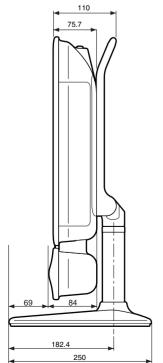
Specifications

Item			22" LCD COLOUR TV, Model: LC-22AA1M
LCD panel			22" Advanced Super View & BLACK TFT LCD
Number of dots			1,229,760 dots (854 × 480 × 3 dots)
Video colour system			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	TV-Standard		CCIR (PAL: B/G, D/K, I SECAM: B/G, D/K NTSC: M)
	Received	UHF	431.25 MHz - 863.25MHz
	Freq. range	VHF	45.25 MHz - 140.25MHz, 147.25MHz - 423.25MHz
	TV-Tuning System		Auto Preset 99 ch, Auto Label, Auto Sort
	STEREO/BILINGUAL		NICAM/A2 stereo
Brightness			430 cd/m ²
Lamp life			60,000 hours
Viewing angles			H: 170° V: 170°
Audio amplifier			5.0 W × 2
Speakers			ø 6 cm 2 pcs, ø 2.5 cm 2 pcs
Terminals	Rear	ANTENNA IN	UHF/VHF 75 Ω Din type
		AV-IN 1	Composite video, S-video, Audio
		AV-IN 2	Composite video, Audio
		AV-IN 3/OUT	Composite video, Audio IN/Composite Video, Audio OUT
		COMPONENT	Y, Pb, Pr/Audio
		SP OUTPUT	External speaker (L and R)
	Front	Headphones	ø 3.5 mm jack (Front)
OSD language		•	English/Chinese/Arabic
Power requirement			DC 13 V, AC 110 V – 240 V, (50/60 Hz)
Power Consumption			59 W (1.4 W at Standby) : AC 110 – 240 V (with AC Adapter)
			47 W : DC 13 V
Weight			10.0 kg w/o accessories
Accessories			Operation manual, Remote control, Battery (\times 2), AC adapter, AC cord, Cable clamps (\times 2), 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.

Unit: mm





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