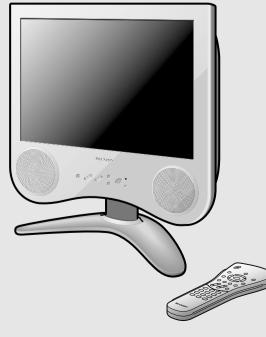




LCD COLOUR TELEVISION
LCD-FARBFERNSEHGERÄT
TÉLÉVISION COULEUR À ÉCRAN
À CRISTAUX LIQUIDES (LCD)
TELEVISORE A COLORI LCD
TELEVISIÓN EN COLOR LCD
LCD-FÄRG-TV
LCD-KLEURENTELEVISIE



OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
MANUAL DE MANEJO
BRUKSANVISNING
GEBRUIKSAANWIJZING

# **LC-15C2E**

# 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 can result in accidents.
- Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
- If you plan to use a 12-VDC 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.

## **Important Safety Precautions (Continued)**

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



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



■ Stand—Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.



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



■ Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



■ The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.



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



The LCD panel is a very high technology product with 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.

# **Supplied Accessories**

Make sure the following accessories are provided with the product.

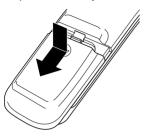
Operation manual (×1)	Wireless remote control (×1)
LCD COLOUR TELEVISION LCD-FARBFERNSEHGERÄT TÉLÉVISION COULEUR À ÉCRAN À CRISTAUX LOUIDES (LCD) TELEVISORE À COLORI LCD TELEVISORE À COLORI LCD TELEVISORE À COLORI LCD LCD-FARG-TV LCD-KLEURENTELEVISIE  OPERATION MANUAL BEDIENUNGSANLETIUNG MODE D'EMPI-CI) MANUALE DI ISTRUZIONI MANUALE DI ISTRUZIONI MANUAL DE MANEJO BRUKSAAMWIJZING GEBRUIKSAAMWIJZING	SHARP
AC adapter (×1)	AC cord (×1)
	* Product shape varies in some countries.
Size AAA dry battery (×2)	Cable clamp (×2)

## **Preparation**

## Installing Batteries in the Remote Control

Before using the LCD TV set for the first time, install the two AAA batteries supplied in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new AAA batteries.

1 Open the battery cover.



■ Raise the cover while pressing the  $(\nabla)$  part. 2 Insert two AAA batteries.



■ Position the positive and negative ends of the batteries as indicated in the compartment.

**3** Replace the battery cover.



■ Engaging the lower claw with the remote control, close the cover.

### **⚠** Caution!

#### **Precautions regarding batteries**

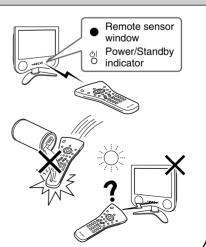
- Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the
  - Place batteries with their terminals corresponding to the (+) and (-) indications.
  - · Different types of batteries have different characteristics. Do not mix batteries of different types.
  - 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 depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off 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 to be used for an extended period of time, remove the batteries from the remote control.

## **Using Remote Control**

■ Use the remote control by pointing it towards the remote sensor window of the main unit. 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 it 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 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 (Continued)**

## **Power Connection** Connect to the DC input terminal of the product. Pull down the hook to open the cover. Household power outlet Plug into an AC outlet. AC cord\* AC adapter To POWER INPUT DC 12 V terminal \* Product shape varies in some countries.

## **Antenna Connection**

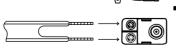
■ Unplug the AC adapter from the LCD TV set and power outlet when the LCD TV set is not to be used for a long

■ Always turn the MAIN POWER switch of the LCD TV set to OFF when connecting the AC adapter.

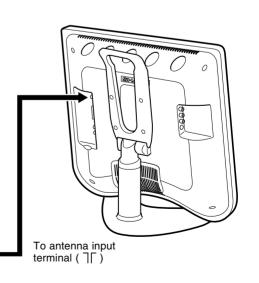
To enjoy a clearer picture, we recommend that you use an outdoor antenna. The following is a brief explanation of the types of connection that are used for coaxial and feeder cables:

- (1) If your outdoor antenna uses a 75-ohm coaxial cable, change this for a new standard DIN45325 (IEC169-2) plug and plug it into the antenna terminal at the back of TV set via the antenna cable (not supplied).
- (2) If your outdoor antenna uses a 300-ohm twin-lead flat feeder, change this for a 300-ohm to 75-ohm impedance converter and plug it into the antenna terminal at the back of TV set via the antenna cable (not supplied).

75-ohm coaxial cable (round cable)



300-ohm twin-lead flat feeder

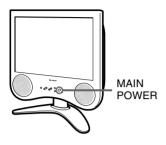


Notes:

period of time.

### **First Installation**

When you turn on the LCD TV set for the first time, the First Installation routine, which makes installation easier, is activated. Using this routine, you can select the on-screen display language, and automatically search for and store all the receivable channels.



- 1 Press the MAIN POWER switch. The "First installation" screen with a list of the languages for the on-screen display appears.
- Press A/V to select the desired language, and then press OK. The "Location of TV set" screen appears in the language selected.

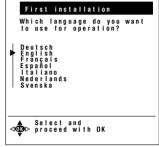


- You can change the on-screen display language after the First Installation routine by selecting "Language" on the TV menu (see pages 18 and 19).
- **3** Press **△/▼** to select the TV set location, and then press OK. The "Autom. programme search" screen appears.

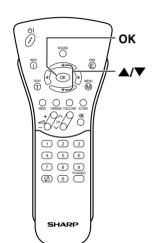


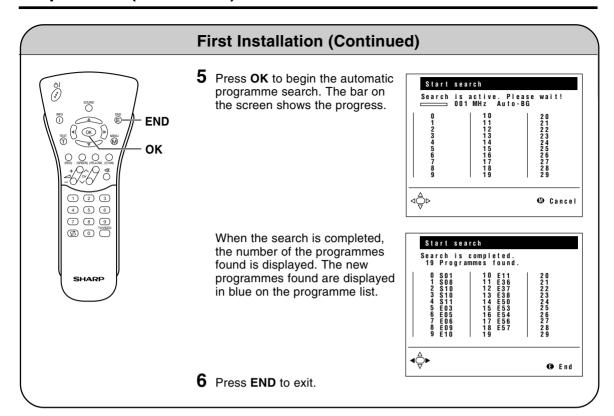
Select and proceed with OK







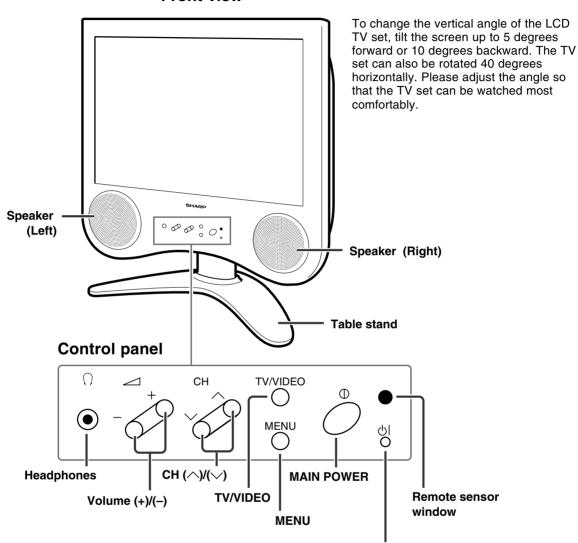




## **Part Names of Main Unit**

## **Controls**

### Front view



#### Power/Standby indicator

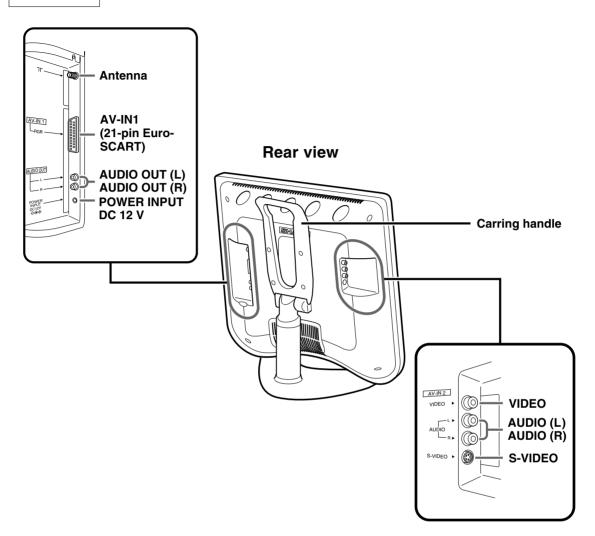
A green indicator lights when the power is on and a red indicator lights when in the standby mode (the indicator will not light when the main power is off).

#### Note:

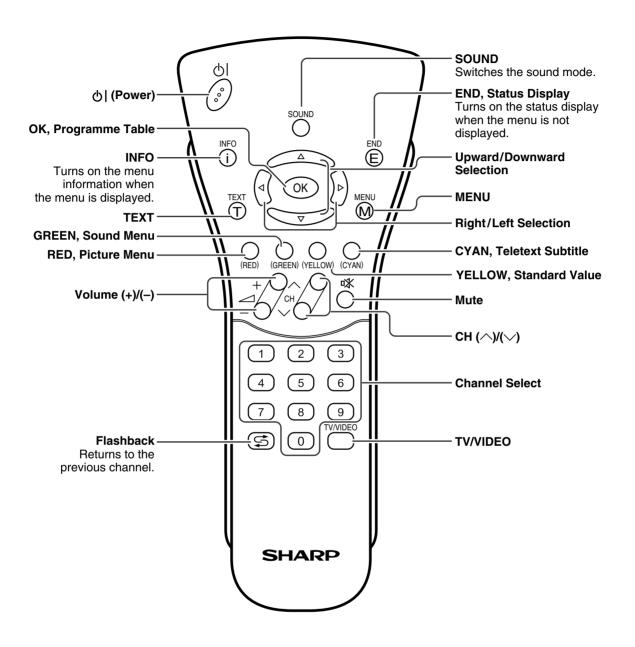
**TV/VIDEO**, CH( $\wedge$ )/( $\vee$ ), and Volume (+)/(–) on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.

## **Part Names of Main Unit (Continued)**

## **Terminals**

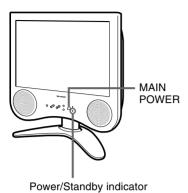


## **Part Names of Remote Control**



## **Basic Operation**

## **Turning On and Off the Main Power**



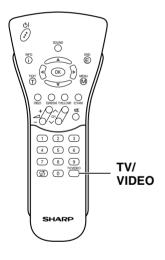
 Press the MAIN POWER switch. The power indicator instantaneously changes from red to green and the main unit is turned on.

#### Note:

- The display time of the on-screen indicators can be selected with "On-screen time" for the "On-screen display" menu item in the TV menu (see page 36).
- To turn off the main power, press the MAIN POWER switch.

On-screen display		
1 808		

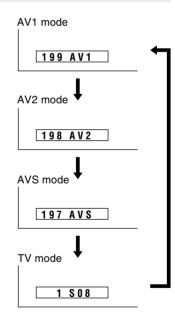
## Switching the TV/VIDEO (AV1/AV2/AVS/TV) Mode



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

#### Note:

- About the video modes
  - AV1: Select this when viewing the signals from the video equipment connected to the AV-IN1 terminal.
  - AV2: Select this when viewing the signals from the video equipment connected to the AV-IN2 terminals using the VIDEO terminal for video input.
  - AVS: Select this when viewing the signals from the video equipment connected to the AV-IN2 terminals using the S-VIDEO terminal for video input.



## **Basic Operation (Continued)**

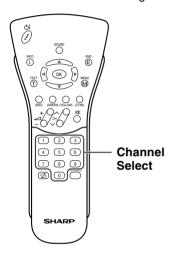
## **Changing Channels**

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

To handle the increasing number of channels available, this LCD TV set allows you to select up to 200 channels (0 to 199).

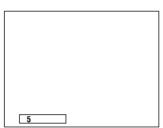
### **Using Channel Select**

When selecting the channel using Channel Select, finish inputting the channel number by holding down the button for the last digit for a moment.



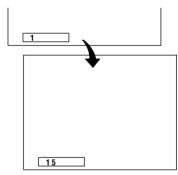
To select a one-digit channel (e.g. Channel 5):

1 Hold down the 5 button.



To select a two/three-digit channel (e.g. Channel 15):

- Press the (1) button.
- **2** Hold down the 5 button.



## Using CH ( $\wedge$ )/( $\vee$ )

Press **CH** ( $\wedge$ ) and the channels change in the order shown below:  $1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots \rightarrow 198 \rightarrow 199 \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots$ 

Press CH ( $\vee$ ) and the channels change in the order shown below:  $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow 199 \rightarrow 198 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$ 

#### Note:

■ Channel "0" is prepared for RF output of VCR.

## **Basic Operation (Continued)**

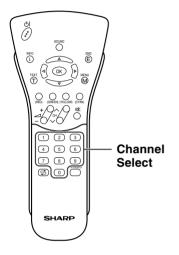
## **Changing Channels**

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

To handle the increasing number of channels available, this LCD TV set allows you to select up to 200 channels (0 to 199).

### **Using Channel Select**

When selecting the channel using Channel Select, finish inputting the channel number by holding down the button for the last digit for a moment.



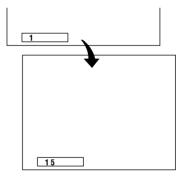
To select a one-digit channel (e.g. Channel 5):

1 Hold down the 5 button.



To select a two/three-digit channel (e.g. Channel 15):

- Press the (1) button.
- **2** Hold down the 5 button.



Using CH ( $\wedge$ )/( $\vee$ )

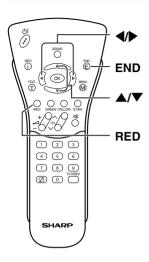
Press **CH** ( $\wedge$ ) and the channels change in the order shown below:  $1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots \rightarrow 198 \rightarrow 199 \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots$ 

Press CH ( $\vee$ ) and the channels change in the order shown below:

 $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow 199 \rightarrow 198 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$ 

## **Useful Features**

## **Adjusting Picture Settings**



1 Press **RED** to display the Picture menu.

#### Note:

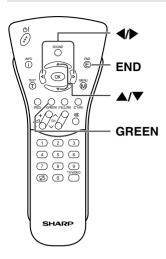
- The Picture menu can also be displayed by selecting "Picture" in the TV menu (see pages 18 and
- **2** Press **▲/▼** to select the desired adjustment item.
  - · Select "Other..." to display the other part of the Picture menu.
- **3** Press **√** to make the adjustment.
- 4 Press END to exit.





Adjustment item	Press Volume (-)	Choice/Value range	Press Volume (+)
Contrast	Decrease contrast	0 – 60	Increase contrast
Colour	Lower colour intensity	-30 – 30	Higher colour intensity
Black level	Less bright	-30 – 30	More bright
Sharpness	Soft picture	0 – 5	Sharp picture
Green colouring	Less green	-5 – 5	More green
Red-blue colouring	More red	-5 – 5	More blue
Tint	Toward purple	-15 – 15	Toward green
Brightness	_	dark←medium←bright	_
Rotate horizontally	_	off←→on	_
Rotate vertically	_	off←→on	_

## **Adjusting Sound Settings**



1 Press GREEN to display the Sound menu.

#### Note:

- The Sound menu can also be displayed by selecting "Sound" in the TV menu (see pages 18 and
- 2 Press ▲/▼ to select the desired adjustment item.
  - Select "Other..." to display the other part of the Sound menu.
- **3** Press **√/>** to make the adjustment.
- 4 Press END to exit.





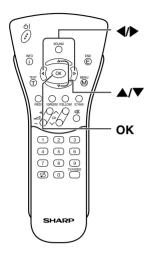
Adjustment item	Press Volume (-)	Choice/Value range	Press Volume (+)
Sound via	_	TV←→Hi-fi	_
Headph. vol.*	Decrease head- phones volume	0 – 60	Increase head- phones volume
Loudsp. sound	_	Mono←Mono!/Sound1←→ Sound2←→Sound1+2←→Mono!/ Stereo←→Mono!/Nicam←→Mono!	_
Headph. sound*		(*The choices differ depending on whether or not a NICAM or IGR signal is received.)	
AV audio sig.	_	Sound1←→Sound2←→Sound1+2	_
Maximum volume*	Decrease maximum volume	10 – 60	Increase maximum volume
Sound wide*	_	off←→on	_
Balance*	Increase the volume of the left speaker	-15 – 15	Increase the volume of the right speaker

<sup>\*</sup> These items are not displayed when the "Sound via" item is set to "Hi-fi".

■ In the "AV audio sig." 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.

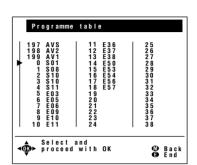
## **Using Programme Table**

The Programme table shows a list of all receivable programmes. They are located in channels 0 to 199. The currently selected programme is displayed in blue, and the child-locked programmes are displayed in red.



#### To select the desired programme

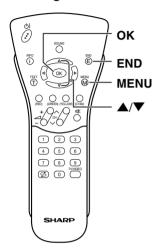
- Press OK to display the Programme table.
- 2 Press ▲/▼ and/or ◀/▶ to select the desired programme.
  - To display the next or previous list of the Programme table, press ▲/▼ when the cursor is at a programme in the lower-right or upper-left position, or press **√/**▶ when the cursor is at a programme in the right or left column.
- **3** Press **OK** to display the selected programme.



## **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



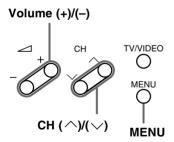
- 1 Press **MENU** on the remote control to display the TV menu.
- 2 Press **△/**▼ to select the desired menu item.
  - The cursor moves up or down.
  - · The cursor indicates the selected menu item.
  - · Select "Other..." to display the other part of the menu.
- **3** Press **OK** to display the setting screen for the selected menu item.
  - · See the next page for a table of the setting screens.
- 4 Press **MENU** to return to the previous screen or END to return to the normal screen.



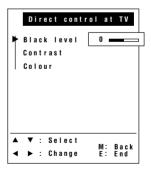


#### ■ Using Direct Control Menu

Control panel of the main unit



- Press MENU on the main unit to display the Direct Control menu.
- **2** Press **CH** ( $\wedge$ )/( $\vee$ ) to select the desired menu item.
  - The cursor moves up or down.
  - · The cursor indicates the selected menu item.
- 3 Press Volume (+)/(-) to make the adjustment.
  - · See page 15 for details on the use of each item.
- Press MENU to turn off the Direct Control menu.



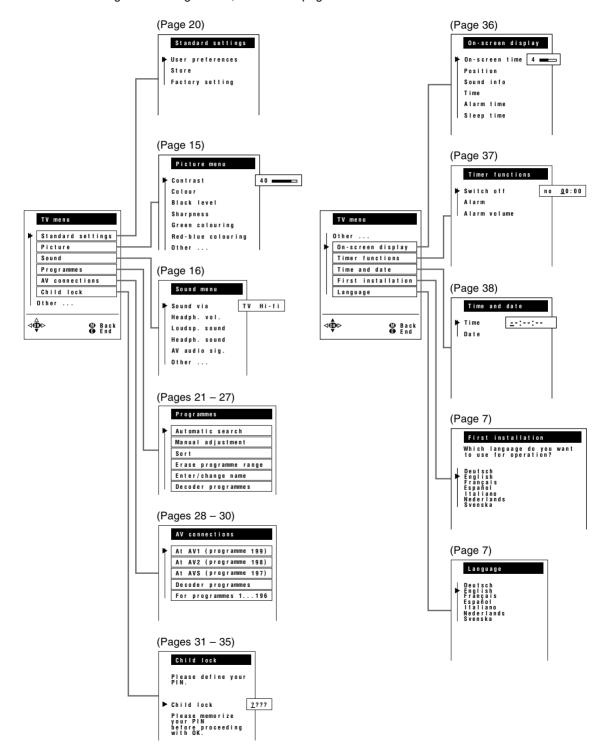
#### Notes:

- The items displayed differ depending on the setting conditions.
- The item selected is displayed in blue.
- The adjustment values and settings which were changed before the screen is restored are saved as is in the memory.

## **Selecting Menu Items (Continued)**

### ■ TV Menu Setting Screens

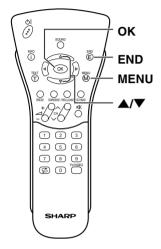
For details on using each setting screen, refer to the page number indicated.



## Standard Settings

You can optionally set the standard settings for the following adjustments. You can also easily call up those standard settings or factory-preset settings.

- Picture menu item: Contrast, Colour, Sharpness, Tint, Brightness
- Sound menu item: Volume, Hi-fi volume, Headph. vol., Balance



- 1 Press **MENU** to display the TV menu.
- 2 Press **▲/▼** to select "Standard settings", and then press OK to display the "Standard settings" screen.



- 3 Press ▲/▼ to select the desired function.
  - User preferences: The standard settings are retrieved.
  - Store: The currently selected settings are stored as the standard settings.
  - Factory setting: The factory-preset settings are retrieved.



- 4 Press **OK** to execute the selected function.
- **5** Press **END** to exit.



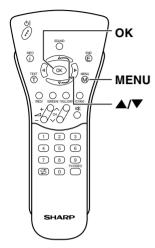
#### Note:

■ You can also call up the standard settings by pressing YELLOW with the normal screen displayed.

## **Programmes**

#### [1] Automatic search

Perform the procedure below to search for and store new programmes after the First Installation routine.



- 1 Press MENU to display the TV menu.
- 2 Press **△/**▼ to select "Programmes", and then press **OK** to display the "Programmes" screen.
- **3** Press **△/**▼ to select "Automatic search", and then press **OK** to display the "Autom. programme search" screen.





4 Press ▲/▼ to select "Change settings", and then press **OK** to display the "Extent of search" screen.

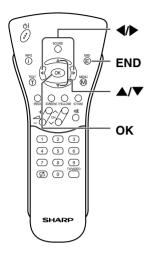


**5** Press **△/**▼ to select the extent of the programmes to be searched, and then press **OK** to display the "Store progr. from" screen.



## **Programmes (Continued)**

#### [1] Automatic search (Continued)



6 Press **△/**▼ and/or **√/**▶ to select the programme position from which the programmes are to be stored, and then press **OK** to display the "Location of TV set" screen.



- **7** Press **△/**▼ to select the TV set location.
  - · Select "Other..." to display the other part of the country list.



- **8** Press **OK**. The selected settings are displayed.
- **9** Press **△/**▼ to select "Start search", and then press **OK** to begin the automatic programme search.

#### Note:

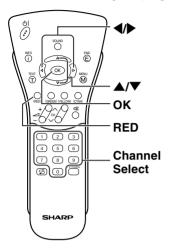
- See pages 7 and 8 for details of the search process.
- **10** After the search is completed, press END to exit.



## **Programmes (Continued)**

### [2] Manual adjustment

Individual settings of programmes can be adjusted.



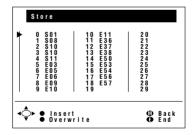
- 1 Perform steps 1 and 2 in [1] Automatic search to display the "Programmes" screen.
- 2 Press ▲/▼ to select "Manual adjustment", and then press OK to display the "Manual adjustment" screen.



- **3** Press **△/**▼ to select the item, and then press **√/>** to make the adjustment. (See the table on the next page for details.)
  - You can also use Channel Select to adjust the "Channel" and "Frequency" items.
  - To adjust "Name", first press OK to activate the text input mode. Press 1/2 to select the input position and press ▲/▼ to select the desired character. When you finish inputting, press **OK** to set the name.



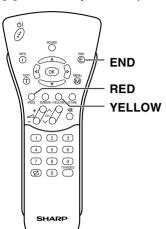
4 Press RED to store the adjusted channel. The "Store" screen appears.



5 Press ▲/▼ and/or ◀/▶ to select the desired programme position to insert the channel.

## **Programmes (Continued)**

### [2] Manual adjustment (Continued)



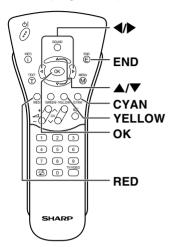
- **6** Press **YELLOW** to insert a free programme position for the channel, or press RED to overwrite the existing channel on the marked programme position.
  - If you press YELLOW, all subsequent programmes including the marked one move one programme position back.
- 7 Press END to exit.

Adjustment item	Choice/Value range	Description
Range	VHF, UHF, Cable	Receivable ranges depending on TV norm and installation site
Channel	E02 – E12 (VHF, B/G) E21 – E69 (UHF) S01 – S41 (Cable, B/G) A – K (VHF, I), etc.	Receivable channels depending on TV norm, installation site, and range
Frequency	044 – 859 (MHz)	Receivable frequencies depending on TV norm, installation site, and range
Name	A – Z, +, -, ., !, /, 0 – 9	Programme name (up to five characters)
TV stand.	B/G, I, L, D/K, M, N	TV norm
Col. st.	Autom., PAL, SECAM, NTSC-V, PAL-V NTSC, PAL(Norm → M), etc.	Colour norm

## **Programmes (Continued)**

#### [3] Sort

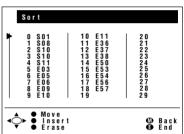
The programme positions for individual programmes can be freely changed.



- 1 Perform steps 1 and 2 in [1] Automatic search to display the "Programmes" screen.
- 2 Press ▲/▼ to select "Sort," and then press **OK** to display the "Sort" screen.



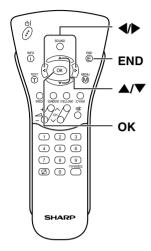
- 3 Press ▲/▼ and/or ◀/▶ to select the desired programme, and then press YELLOW, RED, or CYAN to sort.
  - When YELLOW is pressed, a free programme position is inserted at the current cursor position. All subsequent programmes including the marked one move one programme position back.
  - When RED is pressed, the currently marked programme is erased. All subsequent programmes move one programme position up.
  - When CYAN is pressed, the Move mode is activated. Press ▲/▼ to move the currently marked programme to the desired programme position. The marked programme is swapped with the programme at the selected programme position. Press CYAN to leave the Move mode.
- 4 Press END to exit.



## **Programmes (Continued)**

#### [4] Erase programme range

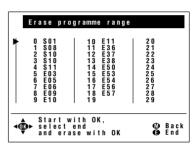
The individual programmes or programmes in a connected range can be erased.



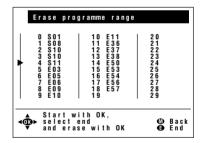
1 Perform steps 1 and 2 in [1] Automatic search to display the "Programmes" screen.



- 2 Press ▲/▼ to select "Erase programme range," and then press **OK** to display the "Erase programme range" screen.
- **3** Press **△/**▼ and/or **◄/**▶ to select the programme to be erased, and then press OK. The selected programme is shown in blue.
  - If you want to erase programmes in a connected range, select the programme at the beginning of the desired range.



4 If you are erasing programmes in a connected range, press ▲/▼ and/or **√/>** to select the programme at the end of the range. The selected programmes are shown in blue.



- **5** Press **OK** to erase the selected programme(s). All the subsequent programmes move up.
- 6 Press END to exit.



TV menu

Sort

Programmes

Automatic search

Manual adjustment

Enter/change name

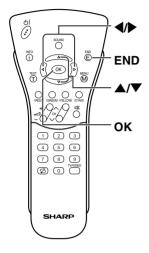
Decoder programmes

Erase programme range

## **Programmes (Continued)**

#### [5] Enter/change name

The name of an individual programme can be entered or changed.



- 1 Perform steps 1 and 2 in [1]
  Automatic search to display the
  "Programmes" screen.
- 2 Press ▲/▼ to select "Enter/ change name," and then press **OK** to display the "Enter/change name" screen.
- 3 Press ▲/▼ and/or ◀/▶ to select the desired programme, and then press OK. An underscore and question marks are displayed as an input prompt.

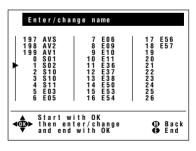


Back
 Bend
 Ben

4 Press **√**/**▶** to select the input position, and then press **▲**/**▼** to select the desired character.



Press OK to accept the name entered, and then press END to exit.



#### Note:

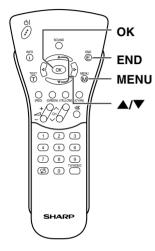
■ See page 29 for information on how to use the "Decoder programmes" item.

#### **AV Connections**

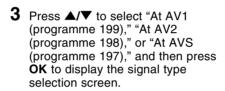
It is possible to manually adjust various settings for connections with external devices on the AV connections screen.

#### [1] At AV1 (programme 199)/AV2 (programme 198)/AVS (programme 197)

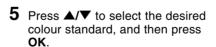
Select the appropriate signal type and colour standard for the signals from the video equipment connected to the AV1, AV2, or AVS terminal.



- 1 Press **MENU** to display the TV menu.
- 2 Press **▲/▼** to select "AV connections," and then press OK to display the "AV connections" screen.













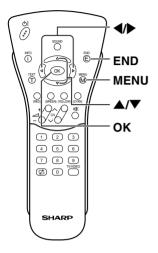




## **AV Connections (Continued)**

#### [2] Decoder programmes

When connecting a video device to the AV1 terminal, you need to adjust the decoder programme settings.

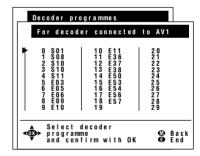


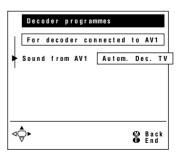
- 1 Perform steps 1 and 2 in [1] At AV1 (programme 199)/AV2 (programme 198)/AVS (programme 197) to display the "AV connections" screen.
- 2 Press **△/▼** to select "Decoder programmes," and then press OK to display the "Decoder programmes" screen.
- 3 Press ▲/▼ to select "For decoder connected to AV1," and then press **OK** to display the decoder programme selection screen.





- 4 Press ▲/▼ and/or ◀/▶ to select the programme for the decoder, and then press OK. Repeat the same procedure if you want to specify other decoder programmes.
- **5** Press **MENU** to return to the "Decoder programmes" screen.
- 6 Press ▲/▼ to select "Sound from AV1", and then press **√/** to select the desired sound source.
- 7 Press END to exit.

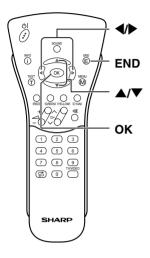




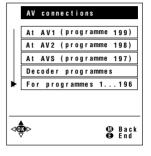
## **AV Connections (Continued)**

#### [3] For programmes 1...196

The influence of the AV control voltage and of fast blank at programme positions from 1 to 196 can be set.



- 1 Perform steps 1 and 2 in [1] At AV1 (programme 199)/AV2 (programme 198)/AVS (programme 197) to display the "AV connections" screen.
- 2 Press **▲/▼** to select "For programmes 1...196," and then press **OK** to display the "For programmes 1...196" screen.



- 3 Press **△/**▼ to select the desired item.
- **4** Press **√** to select "ves" or "no."

#### Notes:

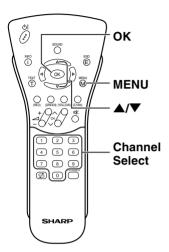
- If the item concerned is set to "yes", the appropriate picture is through-connected at all programme positions from 1 to 196 when a control voltage/an RGB signal is applied.
- When you use RGB mode (SCART). In on screen menu AV connections, selection For Programmes 1...196. Set "AV control voltage" to "yes", and "RGB on-screen display" to "yes". If "AV control voltage" is set to "no", the function will not work correctly.
- **5** Press **END** to exit.



### **Child Lock**

The Child Lock function blocks the viewing of any channel for which the child lock has been set. To use the Child Lock function, you first need to define your PIN (Personal Identification Number).

#### [1] Defining a PIN



- 1 Press **MENU** to display the TV menu.
- 2 Press ▲/▼ to select "Child lock."



3 Press OK to display the PIN input



4 Input the desired four-digit PIN (e.g. 1234) with Channel Select.

#### Notes:

- Be sure to make a note of your PIN before pressing OK.
- The PIN will not be set if MENU or **END** is pressed before the fourth digit has been input.
- **5** Press **OK** to accept the entered PIN.



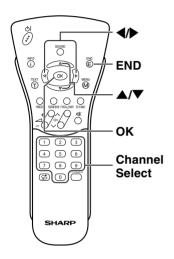
## Child Lock (Continued)

#### [3] Setting Child Lock

There are four different ways of activating a child lock:

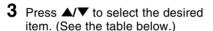
- 1. General child lock for all programmes immediately
- 2. General child lock for all programmes with daily time limit
- 3. General child lock for all programmes with single time limit
- 4. Programme-position related child lock without time limit

The Child Lock comes into effect only after the LCD TV set has entered the standby mode and is then turned on again.



#### To set a Child Lock for all programmes with a time limit

- 1 Perform steps 1 to 3 in [2] Changing/Cancelling a PIN to display the "Child lock" screen.
- 2 Press **△/**▼ to select "For all programmes," and then press OK to display the "For all programmes" screen.



- **4** Press **√/**▶ to select the desired choice, and, if required, input digits with Channel Select.
- **5** Press **END** to exit.

#### Notes:

- If the current clock time is within the time limit, the Child Lock is activated immediately after the LCD TV set is turned off and on again. For example, if the current clock time is 9:00 and the time limit is specified from 22:00 to 14:00, the lock is effective from 9:00 to 14:00.
- When a Child Lock is set for all programmes with a time limit, the "Time and date" item is not displayed in the TV menu and cannot be selected.





Adjustment item	Choice/Input value	Description
Immediately	no↔yes	Select "yes" to activate the Child Lock immediately (after the LCD TV set has been turned off and on again). The lock remains effective until "no" is selected.
Daily	no ←→HH:MM-HH:MM	Input the start and end time for a daily-recurring Child Lock. The lock is activated everyday unless "no" is selected.
Once	no←→HH:MM-HH:MM	Input the start and end time for a once-only Child Lock. The length of the period should be up to 24 hours.

#### Warning:

The timer takes its clock information from the Teletext broadcast. The teletext broadcast may be different time zone and therefore childlock timer may not activate as expected. Concerning this detail, please refer to page 38.

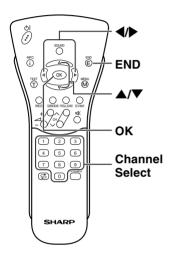
## **Child Lock (Continued)**

#### [3] Setting Child Lock

There are four different ways of activating a child lock:

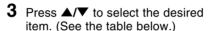
- 1. General child lock for all programmes immediately
- 2. General child lock for all programmes with daily time limit
- 3. General child lock for all programmes with single time limit
- 4. Programme-position related child lock without time limit

The Child Lock comes into effect only after the LCD TV set has entered the standby mode and is then turned on again.



#### To set a Child Lock for all programmes with a time limit

- 1 Perform steps 1 to 3 in [2] Changing/Cancelling a PIN to display the "Child lock" screen.
- 2 Press **▲/▼** to select "For all programmes," and then press **OK** to display the "For all programmes" screen.



- **4** Press **√** to select the desired choice, and, if required, input digits with Channel Select.
- **5** Press **END** to exit.

#### Notes:

- If the current clock time is within the time limit, the Child Lock is activated immediately after the LCD TV set is turned off and on again. For example, if the current clock time is 9:00 and the time limit is specified from 22:00 to 14:00, the lock is effective from 9:00 to 14:00.
- When a Child Lock is set for all programmes with a time limit, the "Time and date" item is not displayed in the TV menu and cannot be selected.

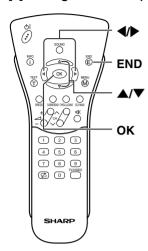




Adjustment item	Choice/Input value	Description
Immediately	no↔yes	Select "yes" to activate the Child Lock immediately (after the LCD TV set has been turned off and on again). The lock remains effective until "no" is selected.
Daily	no ←→HH:MM-HH:MM	Input the start and end time for a daily-recurring Child Lock. The lock is activated everyday unless "no" is selected.
Once	no←→HH:MM-HH:MM	Input the start and end time for a once-only Child Lock. The length of the period should be up to 24 hours.

## **Child Lock (Continued)**

#### [3] Setting Child Lock (Continued)



To set a Child Lock for individual programmes without time limit

- Perform steps 1 to 3 in [2] Changing/Cancelling a PIN to display the "Child lock" screen.
- 2 Press ▲/▼ to select "For individual progr. only," and then press **OK** to display the "For individual progr. only" screen.



- **3** Press **△/**▼ and/or **◄/**▶ to select the desired programme.
- **4** Press **OK** to lock the programme. The locked programme is displayed in red.

### Notes:

- To unlock the programme, select the programme and press **OK**.
- The Child Lock remains effective until it is cancelled.
- For individual progr. only 7 E06 8 E09 9 E10 10 E11 11 E36 12 E38 14 E50 15 E53 16 E54 AVS AV2 AV1 S01 S08 S10 S10 197 198 199 0 1 2 3 4 5 E56 E57 Select programme and lock or unlock with OK ⊕ Back
   ⊕ End
- **5** Press **END** to exit.

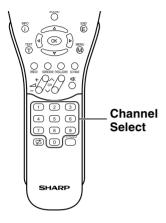
#### Note:

■ When a Child Lock is activated, the "Programmes" item is not displayed in the TV menu and cannot be selected.

## **Child Lock (Continued)**

### [4] Temporarily cancelling the Child Lock setting

You can view a programme for which a Child Lock has been set by temporarily cancelling the Child Lock setting. Perform the procedure below to input your PIN and cancel the Child Lock if you are prompted to do so.



When the PIN input screen appears, input your PIN with Channel Select. The normal screen appears when the PIN is correctly entered.

#### Note:

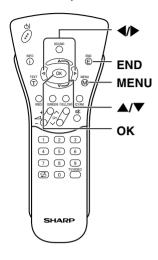
■ If the PIN has been input incorrectly, "Wrong PIN!" is displayed.



# **Useful Features (Continued)**

# **On-screen Display**

You can adjust various settings for on-screen displays.



- 1 Press MENU to display the TV
- 2 Press ▲/▼ to select "On-screen display," and then press OK to display the "On-screen display" screen.



- **3** Press **△/▼** to select the desired adjustment item. (See the table below.)
- 4 Press **√** to make the adjustment.
- **5** Press **END** to exit.



⊕ Back
 ⊕ End
 □

Alarm time Sleep time

TV menu

Other ...

On-screen display

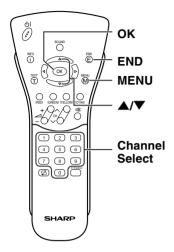
Timer functions

Adjustment item	Choice/Value range	Description	
On-screen time	2 – 9	To select display time in seconds for the information windows (TV status, programme identification, volume, etc.), Direct Control menu, and certain messages.	
Position	bottom ← top	To select display position of information windows.	
Sound info	no ←→ yes		
Time	no ←→ yes	To select information displays is selected to be turned	
Alarm time	no ←→ yes	on or off in the TV status window.	
Sleep time	no ←→ yes		

# **Useful Features (Continued)**

# **Setting Time and Date (Manual)**

The time and the date can be manually set if the LCD TV set is unable to get these from the Teletext function.



- 1 Press MENU to display the TV menu.
- 2 Press **▲/▼** to select "Time and date," and then press OK to display the "Time and date" screen.



4 Input the current time (HH:MM:SS) with Channel

Select.

- **5** Press **△/**▼ to select "Date."
- 6 Input the current date (DD:MM:YYYY) with Channel Select.
- 7 Press END to exit.







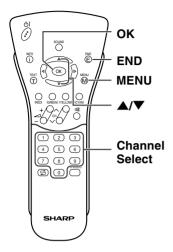
### Note:

■ When the LCD TV set receives Teletext signals from broadcasting of other countries, sometimes the time on the display may be wrong.

# **Useful Features (Continued)**

# **Setting Time and Date (Manual)**

The time and the date can be manually set if the LCD TV set is unable to get these from the Teletext function.



- 1 Press MENU to display the TV menu.
- 2 Press **▲/▼** to select "Time and date," and then press OK to display the "Time and date" screen.



- **3** Press **△/**▼ to select "Time."
- 4 Input the current time (HH:MM:SS) with Channel Select.



TV menu

Other ...

On-screen display

⊕ Back
 ⊕ End

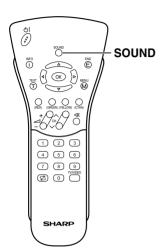
Timer functions

- **5** Press **△/**▼ to select "Date."
- 6 Input the current date (DD:MM:YYYY) with Channel Select.
- **7** Press **END** to exit.



# **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.



### Sterec

The LCD TV set is receiving a stereo broadcast.

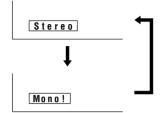
- Each time you press SOUND, the mode changes between "Stereo" and "Mono!."
- When "Mono!" is selected, the TV sound is output monaurally.

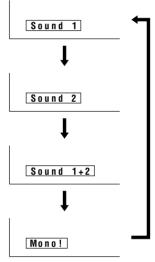
### Bilingual

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  $\rightarrow$  Sound 2  $\rightarrow$  Sound 1+2  $\rightarrow$  Mono!

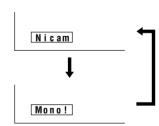






The LCD TV set is receiving a monaural broadcast.

 Each time you press SOUND, the mode changes between "Nicam" and "Monol."



### Notes:

- 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 NICAM mode by setting the "Loudsp. sound" item to "Mono!" in the Sound screen, which is displayed when you press GREEN (see page 16).

# **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

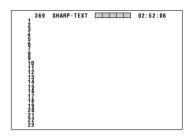
Teletext is activated with **TEXT** on the remote control and is also closed with it. The LCD TV set can be controlled in Teletext mode directly by inputting commands with the remote control and indirectly through the on-screen display (menu system).

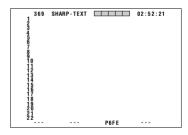
# ■ Operating instructions in Teletext mode

Only lines 0 to 23 (one transmitted Teletext page) can be displayed on the screen simultaneously. When you turn on a control line holding the operating instructions for TOP text or subpages, it is superimposed on line 23. Only one control line can be displayed at one time.

The function executed with a control line displayed is not implemented additionally. This means specifically:

- If FLOF Teletext is broadcast, a control line is transmitted as
  the 24th line, which cannot be displayed on the screen, so it
  is superimposed on line 23. To prevent constant loss of
  information on line 23, the control line is turned off.
  The appear time is depend on "On-screen time". (refer to
  page 36.)
- The FLOF system for teletext is transmits in UK currently.
- The TOP system for teletext is transmits in Germany currently.
- If TOP Teletext is broadcast, a control line, 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 23.





### Note:

■ The subtitles page may differ according to the country of operation and therefore must be set accordingly (e.g. page No. 150 in Germany, page No. 888 in UK.). And please confirm page 51.

# **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).

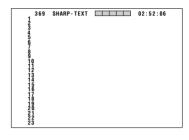
### ■ Operating instructions in Teletext mode

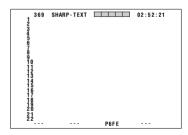
Only lines 0 to 23 (one transmitted Teletext page) can be displayed on the screen simultaneously. When you turn on a control line holding the operating instructions for TOP text or subpages, it is superimposed on line 23. Only one control line can be displayed at one time.

The function executed with a control line displayed is not implemented additionally. This means specifically:

- If FLOF Teletext is broadcast, a control line is transmitted as the 24th line, which cannot be displayed on the screen, so it is superimposed on line 23. To prevent constant loss of information on line 23. The appear time is depend on "Onscreen time". (refer to page 36.)
- The FLOF system for teletext is transmits in UK currently.
- The TOP system for teletext is transmits in Germany currently.
- If TOP Teletext is broadcast, a control line, 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 23.
- A page is entered very slowly depend on a contents of text broadcast.

And even if there is no entired page, sometimes the page is continued to search.



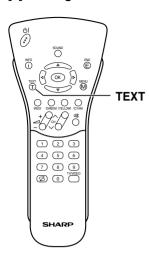


### Note:

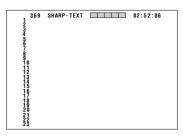
■ The subtitles page may differ according to the country of operation and therefore must be set accordingly.

# **Teletext (Continued)**

## [1] Turning on and off Teletext mode

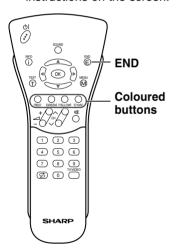


- 1 Select a TV channel that is broadcasting the Teletext programme.
- **2** Press **TEXT**. The Teletext screen appears.
- To turn off Teletext mode, press TEXT again.

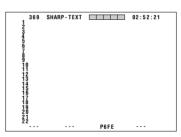


# [2] Using the TOP line

When TOP Teletext is being broadcast, you can display the TOP line, which contains the operating instructions on the screen.

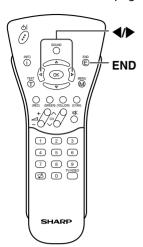


- 1 Press any Coloured button to display the TOP line.
- 2 Use the Coloured buttons to operate the Teletext screen.
  - Press **RED** to display the previous page and GREEN to display the next page. YELLOW and CYAN are as indicated on the TOP line.
- 3 Press END to turn off the TOP line.



# [3] Changing subpages

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



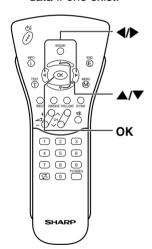
Press **1/**. The control line with the subpage numbers is superimposed on line 23, and the number of the currently selected subpage is displayed in blue.

### Note:

- Page numbers can be displayed for up to eight subpages simultaneously. If there are more than eight subpages attached to a page, the existing subpages are repeatedly overwritten.
- **2** Press **√** to select the desired subpage number. The selected subpage is displayed.
- 3 Press END to turn off the control line.

### [4] Using the TOP table

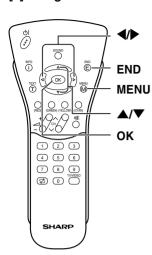
When TOP Teletext is being broadcast, you can display the TOP table with the current programme data if one exist.



- 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.

# **Teletext (Continued)**

# [5] Using Teletext menu

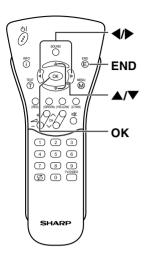


- 1 Press MENU in Teletext mode to display the Teletext menu.
- 2 Press ▲/▼ to select the desired item.
- **3** Perform the required operation for the item. (See the table below.)
- 4 Press MENU or END to exit.



Item	Description	
Newsflash	You can activate Newsflash mode by pressing <b>OK</b> . To turn off Newsflash mode, press <b>OK</b> or <b>MENU</b> .	
Reveal	You can reveal hidden information (application e.g. in puzzle solutions or VPS times). Press ◀/▶ to select "yes," and then press <b>OK</b> . The last Teletext page is displayed with the Reveal function activated. The Reveal function applies to this page only once.	
Subpage	You can display the desired subpage by directly inputting a four-digit subpage number with number keys.	
Character set	Press <b>OK</b> to display the "Character set" screen.	
Sub-title pages	Press <b>OK</b> to display the "Sub-title pages" screen.	

# [5] Using Teletext menu (Continued)



### To select the character set

- With the "Character set" screen displayed, press ▲/▼ to select the desired character set, and then press OK.
- 2 Press END to exit.



# To use the Sub-title pages screen

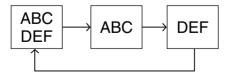
- 1 With the Sub-title pages screen displayed, press **△/**▼ and/or **√/**▶ to select the desired programme.
- 2 Press END to exit.

### Notes:

- To obtain the correct sub-title in other countries (page 150 default), it is necessary to input the transmittingstation-dependent numbers for these pages beforehand.
- Moving the programme position in the Programme table also moves the subtitle page.

# [6] Useful Features for Teletext

- **1** The "0" key on the remote control can be used to hold the current teletext page.
- **2** The "9" key on the remote control can be used to zoom the current teletext page as below.

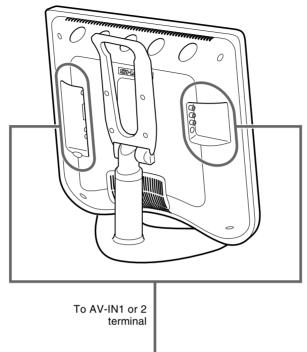


\* The screen displays each mode each time "9" is pressed.

# **Connecting External Devices**

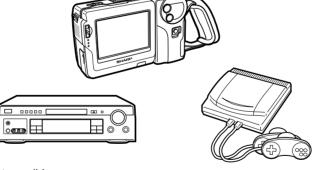
It is possible to enjoy video and sound by connecting a VCR and home video game system to the terminals located on the rear of the main unit.

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



# Examples of external devices that can be connected

- Video camera
- · Home video game system
- VCR
- · Laser disc player
- DVD

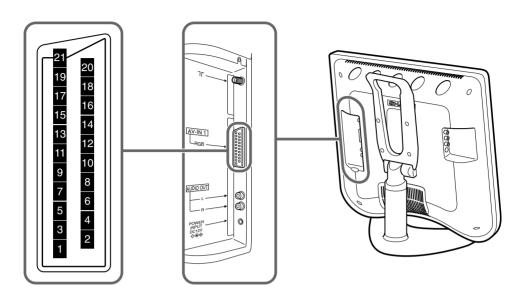


\* PC connection is not possible.

### Notes:

- Use a commercially available audio/video cord for the cable.
- Only connect audio/video signals to AV-IN1 and 2 terminals. Connecting other signals may result in a malfunction.
- The VIDEO input terminal and the S-VIDEO input terminal on the AV-IN2 side are shared connections with priority given to the S-VIDEO terminal. If both terminals are connected, the video signals from the S-VIDEO input terminal are selected for the AV-IN2 input.
  - When viewing video from the VIDEO input terminal, do not connect anything to the S-VIDEO input terminal.
- For details concerning usage and connection of external devices, see the respective instruction manuals.

# Connecting a Decorder through the 21-pin Euro-SCART (AV-IN1/RGB)

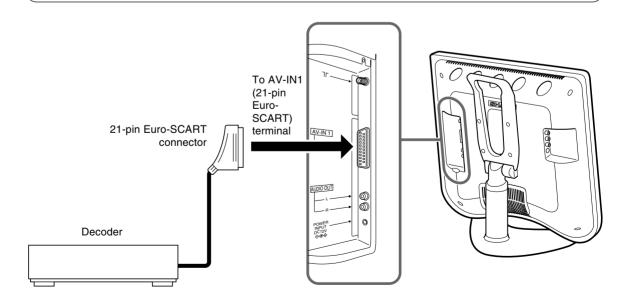


# 21-pin Euro-SCART (RGB)

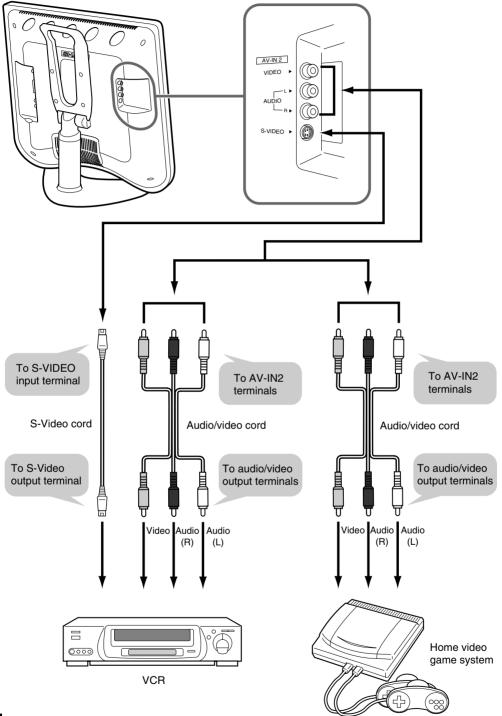
- 1. Audio right output
- 2. Audio right input
- 3. Audio left output
- 4. Common earth for audio
- 5. Earth for blue
- 6. Audio left input
- 7. BLUE input

- 8. Audio-video control
- 9. Earth for green
- 10. Not used
- 11. GREEN input
- 12. Not used
- 13. Earth for red
- 14. Not used

- 15. RED input
- 16. RED/GREEN/BLUE control
- 17. Earth for video
- 18. Earth for RED/GREEN/BLUE control
- 19. Video output
- 20. Video input (PAL/SECAM/NTSC)
- 21. Plug shield



# Connecting a VCR or a home video game system (AV-IN2)

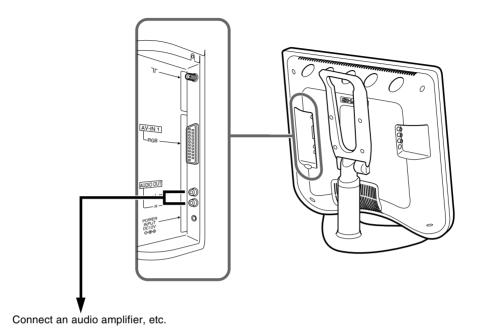


■ When connecting to both the VIDEO input and S-VIDEO input terminals for AV-IN2, priority is given to the S-VIDEO input terminal.

# **Connecting External Devices (Continued)**

# **Outputting audio (AUDIO OUT)**

It is possible to output audio from the LCD TV set through the AUDIO OUT terminals.



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

# **Troubleshooting**

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

# **LCD TV set**

Problem		Check item	Reference page
	here is no icture or sound.	<ul> <li>Make sure the AC adapter is properly inserted in the power outlet.</li> <li>Reception other than that of broadcasting stations can be considered.</li> <li>Make sure the input mode is set to TV.</li> <li>Make sure the main power switch of the main unit is on.</li> </ul>	6 12 12
pi TI pi	here is no icture. here is no icture from AV- N2.	<ul> <li>Make sure Picture adjustment is properly adjusted.</li> <li>The fluorescent lamp may have reached the end of its service life.</li> <li>Make sure the S-Video terminal has nothing connected.</li> </ul>	15 - 48
1 1 1077 11 1	here is no ound.	<ul> <li>Make sure the volume is not set to minimum.</li> <li>Make sure the sound is not set to mute.</li> <li>Make sure the headphones are not connected.</li> </ul>	13 13 9
pi	here is no icture or sound, ist noise.	Make sure the antenna cable is properly connected.     Bad reception should be considered.	6 -
	icture is not lear.	<ul> <li>Make sure the antenna cable is properly connected.</li> <li>Bad reception can be considered.</li> </ul>	6 -
liç	icture is too ght or nproperly nted.	Check the colour adjustment. (NTSC mode)	15
0 3811	he picture is oo dark.	<ul> <li>Check if "Brightness" is set to "dark."</li> <li>Check "Contrast" and "Black level."</li> <li>The fluorescent lamp may have reached the end of its service life.</li> </ul>	15 15 –
Remote control does not work.		<ul> <li>Check if batteries in the remote control have sufficient power.</li> <li>Make sure the remote sensor window is not under strong lighting.</li> </ul>	5 5

# LCD TV set

On-screen message	Check item	Reference page
No subtitles available!	<ul> <li>Referring to the "Sub-title pages" screen of the Teletext menu check if the channel for the sub-title is set for your country.</li> <li>Check if a programme having sub-titles is received.</li> </ul>	45 -

# Antenna

Problem		Check item
	The picture is not sharp.	The reception may be weak. The quality of the broadcast may also be bad. Make sure the antenna is facing the correct direction. Make sure the outside antenna has not been disconnected.
	The picture shakes.	
	The picture has ghosts.	Make sure the antenna is facing the correct direction.     Broadcast waves may be reflected from adjacent 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.	<ul> <li>Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations and transmission antennas of amateur radios and cellular phones may also cause interference.</li> <li>Use the unit as far apart as possible from devices that may cause possible interference.</li> </ul>

# **Specifications**

Items		15" LCD COLOUR TV, Model: LC-15C2E
LCD panel		15" BLACK TFT LCD
Number of pixels		921,600 dots
Video colour system		PAL/SECAM/NTSC
TV	TV-Standard (CCIR)	BG/L/DK, I, M, N
Function	TV-Tuning System	Auto preset 197 ch.
	STEREO/BILINGUAL	NICAM, IGR
	AUTO PRESET	Yes
	CATV	~Hyper Band
Brightness		430 cd/m <sup>2</sup>
Lamp life		60,000 hours
Viewing angles		H: 160° V: 160°
Audio amplifier		2.1 W × 2
Speakers		5 cm ø 2 pcs.
Terminals	AV-IN1	RGB
	AV-IN2	S-VIDEO, VIDEO, AUDIO
	OUT	AUDIO
	Antenna	DIN
	Headphones	3.5 mm ø jack (Front)
OSD language		English/German/French/Spanish/Italian/Swedish/Dutch
Power requirement		DC 12 V, AC 110 – 240 V, 50/60 Hz
Weight		4.7 kg, incl. stand, excl. accessories
Accessories		Remote Control, Batteries, AC adapter, AC cord, Cable clamp

<sup>■</sup> Design and specifications are subject to change without notice.

# **Dimensional Drawings**

149.5 198

Unit: mm 369 301.6 305.3 307 231 294.3 SHARP 431.6

### IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK

If you have forgotten your personal code number and cannot disengage ADVANCED CHILD LOCK, follow the procedure below.

- 1. Press **MENU** to display the TV menu.
- 2. Press ▲/▼ to select "Child lock," then press **OK**.
- 3. The PIN input menu appears.
- 4. Input "3001" with Channel Select.

The Child lock setting menu appears and the PIN is cleared.

A new PIN can now be input.

ADVANCED CHILD LOCK will now be disengaged.

We suggest that you remove this instruction from the manual to prevent children from reading it. Keep it in a safe space for future reference.





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