

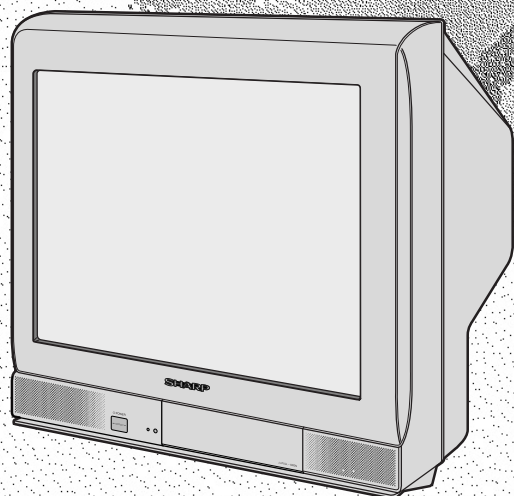
# SHARP®

COLOUR TELEVISION

MODEL









**CX51HF3**

■ OPERATION MANUAL ■



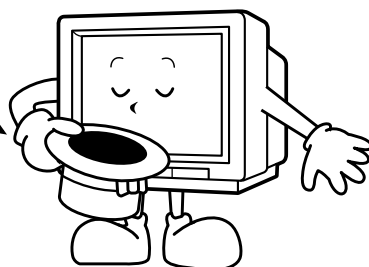
Please read this operation manual  
carefully before using the colour  
television.

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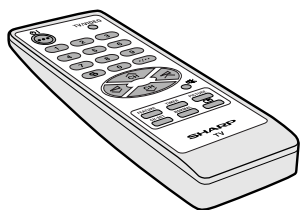
## Dear SHARP Customer

Thank you for buying SHARP's Colour Television. We hope you will have many years of enjoyment from this television set. To ensure proper operation, please read this manual carefully, and keep it in a safe place for future reference.

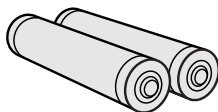


## Accessories

The following accessories are included with this television.



Remote control



Size-AA batteries



Operation manual

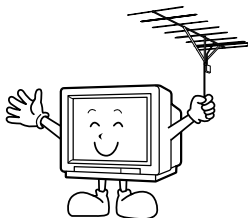


# Easy setup

To use your TV set, perform the easy setup procedure below.

The  mark indicates the page numbers with more detailed information.

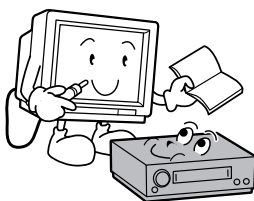
**1**





## Connect the antenna.

- See  to connect the antenna.

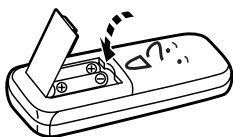
**2**




## Connect any video equipment.

- See  ,  to connect video equipment.
- See the operation manual of your video equipment when connecting to the TV set.

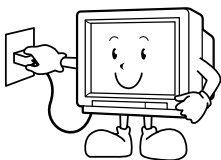
**3**



## Insert the batteries into the remote control.

- Use the two batteries included with the TV.
- See  .

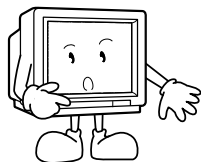
**4**





## Insert the AC plug to the power outlet.

- If you will not use the TV set for a considerable length of time, as a safety precaution, unplug the cord from the outlet.

**5**

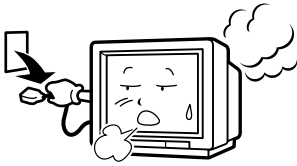


## Tune the channels.

- Use the buttons on the TV.
- See  ,  .

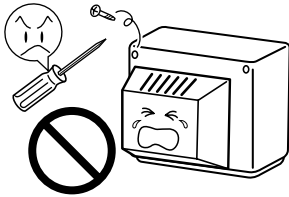


# Safety precautions



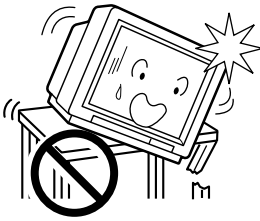
## Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.



## Servicing

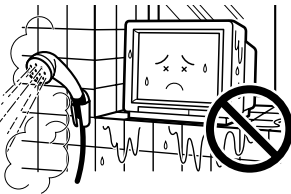
To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.



## Unstable surface and shocks

Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set.

Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.



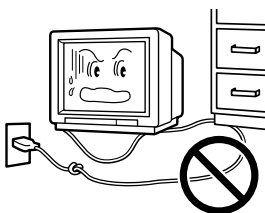
## Water

To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.



## Moisture

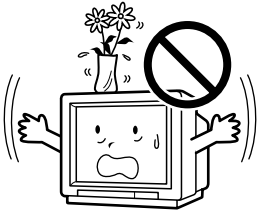
To prevent electrical shock, do not use the TV set in an excessively damp place.



## Power-cord protection

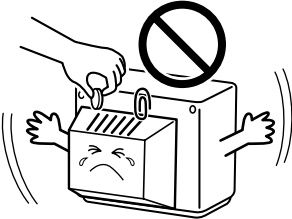
To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.

## Safety precautions



### Liquid entry

Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.



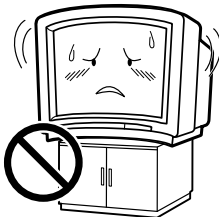
### Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.



### Ventilation

Do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.



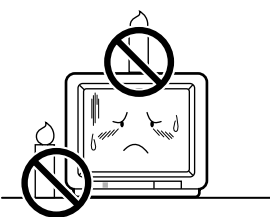
### TV Set position

Do place the TV set onto an even stand, table or track which size is bigger than the TV set. If the TV set is put onto a smaller size or uneven stand, table or track may cause the TV cabinet distort. Do not put or insert anything between TV set and the stand, table or track.



### Uneven surface and excessive force

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.




### Fire prevention

To prevent fire, never place any type of candle or naked flames on the top or near the TV set.



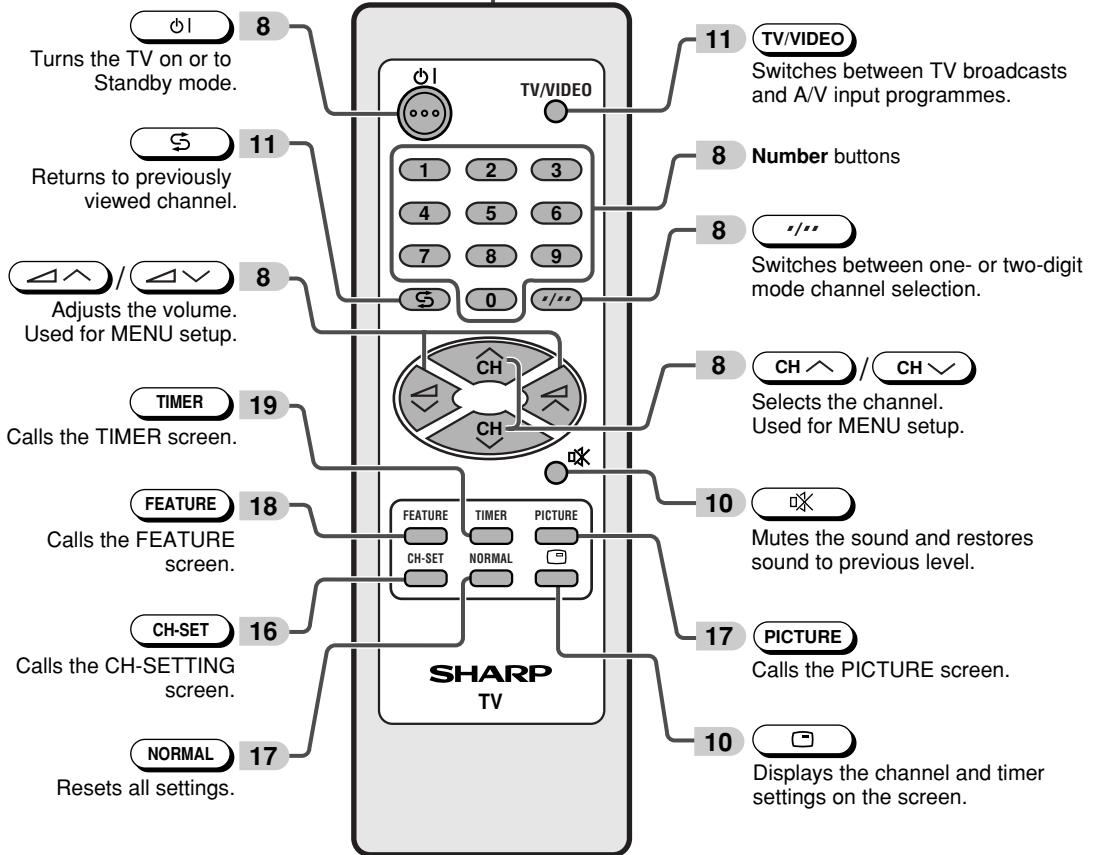
# Part names

The  mark indicates the page numbers with more detailed information.

## Remote control

### Infrared transmitter window

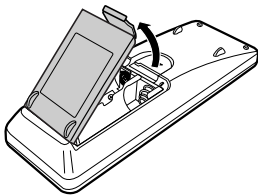
Aim this window at the infrared sensor window on your TV set.



## Installing batteries in the remote control unit

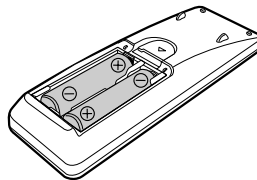
**1**

With your thumbnail, pull up at the slit to open the battery cover.



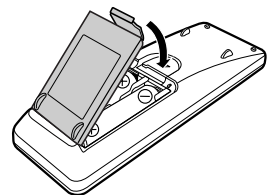
**2**

Insert two batteries (size AA).



**3**

Replace the battery cover.

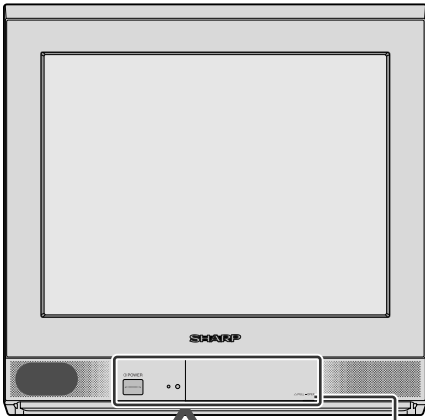


### NOTE

- Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the compartment.
- Remove the batteries if weak or if the unit is not in use for long periods.
- Do not mix old and new batteries.
- Incorrect installation of the batteries may damage the remote control.

## Part names

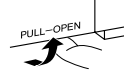
### TV set



Door

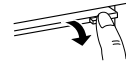
#### To open the door

Using the projection located under the "PULL-OPEN" indication, pull and lift the door open.



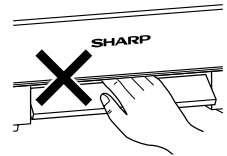
#### To close the door

Using the projection, lower the door until closed.



#### Caution:

- When opening or closing the door, do not insert your fingers into the gap between the door and front panel. This may result in an injury.



### Bottom

8 ①POWER

#### ① POWER switch

Turns on and off the main power.

8 Power indicator

Power can be turned on by the remote control when the indicator is dimly.

6 Infrared sensor window

Receives the infrared wave from the remote control.



MENU/PRESET 12

#### MENU/PRESET button

Tunes the channels.  
Used for MENU setup.



#### Volume up/down buttons

Adjusts the volume.  
Makes adjustments in PRESET.



#### Channel up/down buttons

Selects the channels.  
Tunes or sets the channels.

9 Headphone jack

Use to listen to the audio with headphone.

23 Audio input terminal (AV-2)

Connects to a camcorder, video game, etc.

23 Video input terminal (AV-2)

Connects to a camcorder, video game, etc.

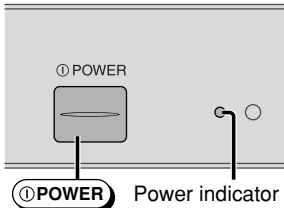
**NOTE** • When using headphone, see 9 .



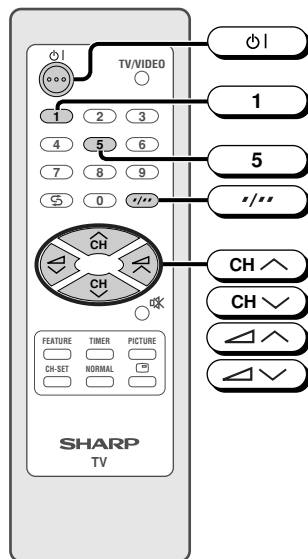
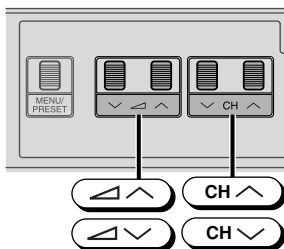


# Watching TV

## TV Set



## Behind the door



## Watching a TV programme

### Simple operations for watching a TV programme

#### 1 Turn on power.

- When the power indicator is off, press **POWER**.
- When the power indicator lights up dimly, press **⏻** on the remote control. The power indicator changes to bright and a picture appears.

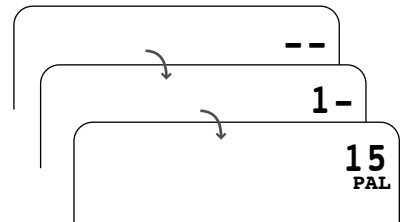
#### 2 Select channel.

With **CH ^** / **CH v**

- Press **CH ^** and channels change as shown below.  
1 → 2 → ... → 98 → 99 → AV1 → AV2 → 0 → 1 → 2 ...
- Press **CH v** and channels change as shown below.  
1 → 0 → AV2 → AV1 → 99 → 98 → ... → 2 → 1 → 0 ...

With the number buttons (on remote control)

- To select a one-digit channel, such as 5, press **5**.  
If "5-" is indicated, press **\*/\*\*** to select one-digit input, and then press **5** again.
- To select a two-digit channel, such as 15, press **\*/\*\*** to select the two-digit input. Press **1**, and then press **5**.



#### 3 Adjust volume using **▲** / **▼**.

- The number of oval blocks "█" indicates the volume level.  
The volume bar disappears approximately three seconds after the volume has been adjusted.



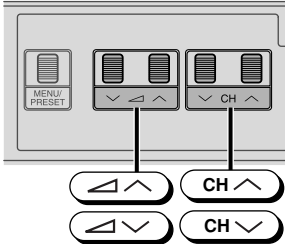
### NOTE

- When the power indicator lights up dimly, either **CH ^** / **CH v** on the TV can be pressed to turn on the power.
- The channel number is displayed in green for channels tuned by auto tuning and displayed in yellow for channels tuned using fine tuning.
- When the power indicator lights up dimly, the TV is in Standby mode and power is still supplied to the TV. If you will not watch TV for a while, turn off the main power by pressing **POWER** on the TV set. Also, if you will not be at home for a considerable length of time, unplug the cord from the outlet.
- The AV1 and AV2 input channels cannot be selected using **CH ^** / **CH v** on the remote control. Use **TV/VIDEO** to select these channel.
- Channels that have been skipped cannot be selected by **CH ^** / **CH v**. See **16**.
- The on-screen displays in this manual may differ from their actual appearance.

## Operating the TV buttons

### Simple operation of the TV set

#### Behind the door



Using /

Press to increase volume.

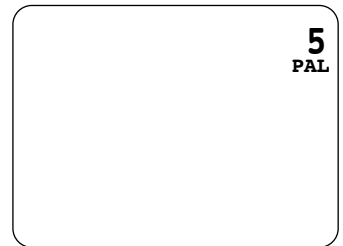
Press to decrease volume.



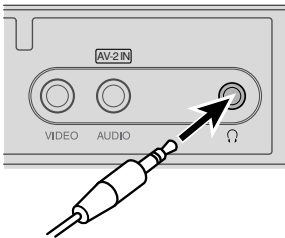
Using /

Press to increase channel number.

Press to decrease channel number.



#### Behind the door



### Using headphone

Insert headphone plug into headphone jack to listen to audio with headphone.

- The audio from the speakers is turned off.

#### NOTE

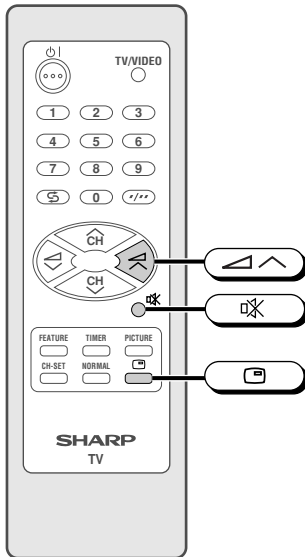
- Select an appropriate volume so as not to injure your hearing.
- To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.
- The proper impedance for the headphone is 32 ohms.
- Remove the headphone plug from the jack when not using the headphone.




# Useful features

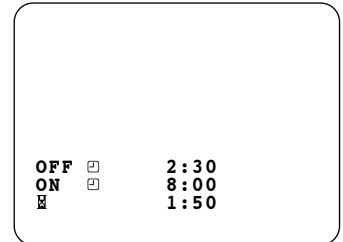
## Channel/Timer display

Displays the current channel number, the timer, and other settings on the screen.



### 1 Press .

- The time remaining on the Off timer, On timer, and Reminder appears on the screen.
- When no timer is set, the channel number and colour system appear on the screen. Press  again to clear these current settings display on the screen.



### 2 Press again.

- The channel number and colour system appear on the screen.




### 3 Press once again.

- The display disappears.

## Mute

Silences the sound.

### 1 Press .


- “” appears on the screen, and the sound is silenced.



### 2 Press again.

- The volume returns to its previous level.



**NOTE** • Mute will be cancelled if the  is pressed at any time.

### Channel recall

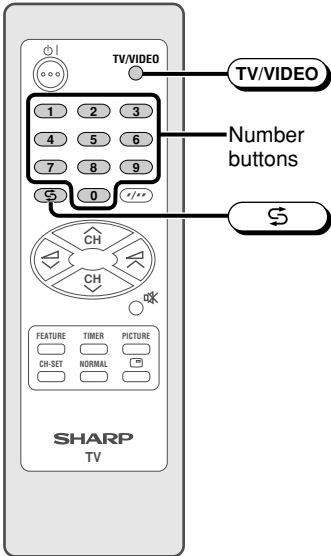
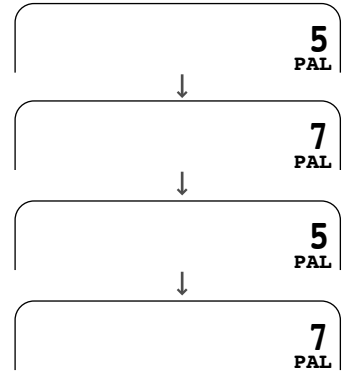
Switches back to the channel you were watching just before the current channel.

Press **↩**.

- The channel previously viewed returns to the screen.

**Example:**

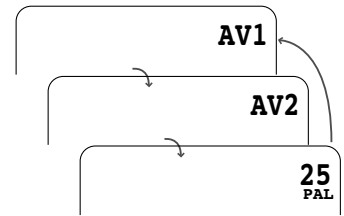
After switching from channel 5 to channel 7, **↩** is pressed, the channel will change to channel 5. Press **↩** again to return to channel 7.



### TV/Video selection

Switches between TV broadcasts and AV input programmes.

Each time you press the **TV/VIDEO**, the input switches between AV1, AV2 and TV programme.

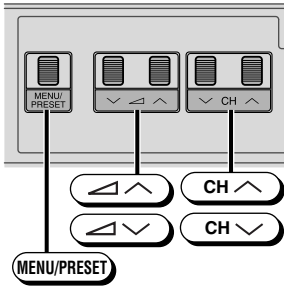




# Selecting menu items

This TV set allows you to adjust the picture and sound, and set the channels and other features using the On-screen display with the remote control or from the TV set. Select the desired menu item by following the steps below and then refer to the indicated page for details.

## Behind the door



## Selecting a menu item

**1** Press **MENU/PRESET** on the TV set to call MENU screen.

```
MENU
◆PICTURE
FEATURE
TIMER
CH-SETTING
```

**2** Press **CH ^** / **CH v** to select desired menu item.  
• The selected item is highlighted in yellow.

```
MENU
PICTURE
FEATURE
◆TIMER
CH-SETTING
```

**3** Press **△** / **▽** to enter.

```
TIMER
◆OFF □ ---:--
ON □ ---:--
POSITION
VOLUME ---:--
H
```

**4** Press **MENU/PRESET** on the TV set until normal screen appears.

**PICTURE menu** ..... 17

```
PICTURE
◆CONTRAST          60
COLOUR             0
BRIGHTNESS         0
TINT
SHARPNESS          0
WHITE TEMP        ◆|-----|◆
vCH^: SELECT
vCHv: ADJUST
```

**FEATURE menu** ..... 18

```
FEATURE
◆BLUE BACK        OFF
vCHv: ADJUST
```

**TIMER menu** ..... 19 - 21

```
TIMER
◆OFF □ ---:--
ON □ ---:--
POSITION
VOLUME ---:--
H
vCH^: SELECT
vCHv: ADJUST
```

**CH-SETTING menu** ..... 16

```
CH-SETTING
◆POSITION          CH27
COLOUR            AUTO
SKIP              OFF
FINE              168.25MHz
vCH^: SELECT
vCHv: ADJUST
```

Operating guide

### NOTE

- If you press **MENU/PRESET** on the TV set for more than two seconds, the LANGUAGE mode screen will appear instead of the MENU screen. To display the MENU screen, press **MENU/PRESET** until the normal screen appears, then press the button again.
- The procedures for setting and selecting the menu items on the following pages are described using the buttons on the remote control. These procedures can also be performed using the corresponding buttons on the TV set.

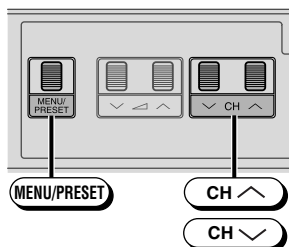


# Settings and adjustments

## On-screen display language selection

The on-screen display language can be set to English, Chinese, French, Malay or Arabic.

### Behind the door



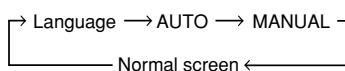
### TV set

- 1** Press **MENU/PRESET** on the TV set for more than two seconds.

- The language select mode appear.

- 2** Press **CH ^** / **CH v** to select desired language.

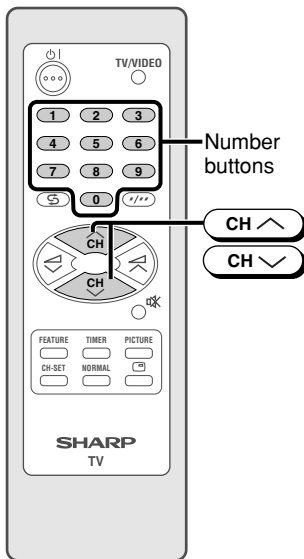
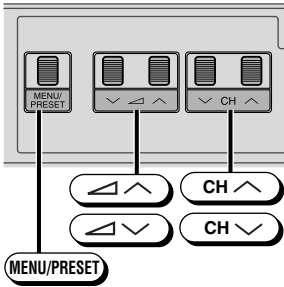
- Pressing **MENU/PRESET** changes the screen as shown below.



- 3** Press **MENU/PRESET** on the TV set until normal screen appears.

◆ENGLISH  
中文  
FRANCAIS  
BAHASA MELAYU  
العربية

## Behind the door



## Manual channel tuning

Enables manual channel tuning to a desired TV station (e.g. tuning the TV to a VCR, tuning in an additional TV station).

**NOTE:** This TV is already tuned into 2, 7, 9, 10 and 28.

- 1 Press **MENU/PRESET** on the TV set for more than two seconds.

- The language select mode appear.

◆ENGLISH  
# 文  
FRANCAIS  
BAHASA MELAYU  
العربية

- 2 Press **MENU/PRESET** on the TV set twice to display MANUAL mode screen.

- Pressing **MENU/PRESET** changes the screen as shown below.

→ Language → AUTO → MANUAL  
← Normal screen ←

MANUAL  
VHF 1  
48.25MHz

- 3 Press **CH ^** / **CH v** or number buttons to select channel position.

- 4 Press **▲** / **▼** on TV set to locate channel you wish to preset to current channel position.

- Search is initiated and when a TV signal is received during the search, the search stops.

MANUAL  
VHF 5  
107.50MHz

Channel position

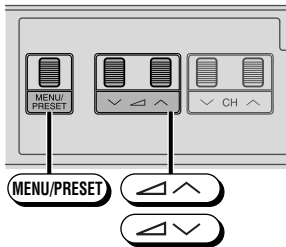
- 5 Repeat steps 3 and 4 above, to preset channel positions for other broadcasts.

- 6 Press **MENU/PRESET** on the TV set again to display normal screen.

## Auto channel tuning

Automatically tunes in and presets receivable TV stations, using consecutive channels number (e.g. 2, 7, 9, 10 will be stored as 1, 2, 3, 4).

### Behind the door



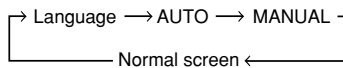
**1** Press **MENU/PRESET** on the TV set for more than two seconds.

- The language select mode appears.

◆ENGLISH  
中文  
FRANCAIS  
BAHASA MELAYU  
العربية

**2** Press **MENU/PRESET** on the TV set again to display AUTO mode screen.

- Pressing **MENU/PRESET** changes the screen as shown below.



AUTO  
VHF 1  
48.25MHz

**3** Press **Left-Up** / **Left-Down** on TV set.

- All the TV stations in your area that can be received by the TV set are automatically preset between channels 1 to 99.
- The screen shows whatever is on channel 1 when auto channel preset is finished.

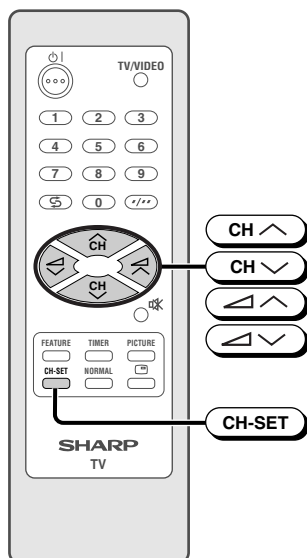
**1**  
PAL

- NOTE**
- AUTO PRESET stores all receivable channels including those which may be very weak and not clearly visible. To preset only those channels designated for the local viewing region, use MANUAL PRESET. See **14**.
  - Unused channels are automatically skipped.



## Channel setting

Enables individual channel setting.



- 1** Press **CH-SET** to call **CH-SETTING** screen.
- 2** Press **CH ^** / **CH v** to select desired setting.
- 3** Each time you press **CH ^** / **CH v**, setting for individual items changes as follows:

CH-SETTING	
◆POSITION	CH27
COLOUR	AUTO
SKIP	OFF
FINE	168.25MHz
vCH^: SELECT	
vCHv: ADJUST	

- **POSITION**  
The channel position changes to the higher or lower number.
- **COLOUR**  
AUTO ↔ PAL
- **SKIP**  
ON ↔ OFF  
Channel numbers with a "■" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".
- **FINE**  
The frequency changes to allow fine tuning.

- 4** Press **CH-SET** to return to **normal screen**.

- When you select AV1 or AV2 for the channel position, the CH-SETTING screen changes as shown on the right and the colour mode changes in the following order:

CH-SETTING	
◆POSITION	AV1
COLOUR	AUTO
vCH^: SELECT	
vCHv: ADJUST	

→ AUTO ↔ PAL ↔ N443 ↔ N358 ←

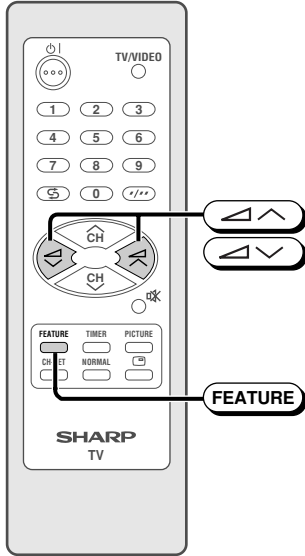
### NOTE

- Switching COLOUR system:  
Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- In a weak reception area, or under bad reception conditions, you can change the frequency by fine tuning.
- When using FINE, the channel number changes from green to yellow.
- To return the channel to its original frequency setting, follow the manual channel tuning procedure.  
See **14**.

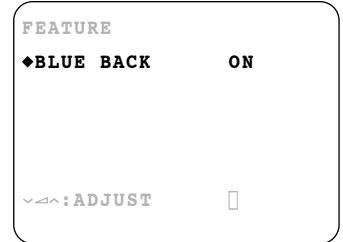


## Blue screen

Automatically turns the screen blue if a broadcast signal is not received.



- 1** Press **FEATURE** to call FEATURE screen.
- 2** Press **▲** / **▼** to select "BLUE BACK" to "ON" or "OFF".
- 3** Press **FEATURE** to return to normal screen.



When BLUE BACK is set to "ON"

No signal



after 5 seconds

Blue screen



after 15 minutes

TV off



Standby mode

(Indicator)



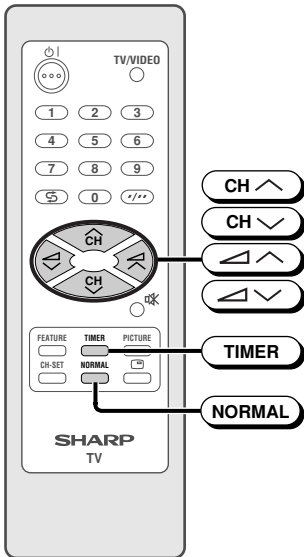
Power indicator lights up dimly

### NOTE

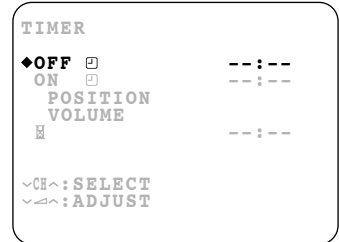
- Poor reception due to weak signals and too much noise may activate BLUE BACK, despite the presence of a broadcast signal. To continue watching TV under these conditions, switch "BLUE BACK" to "OFF".
- When Off timer is set, the OFF TIMER setting has priority over BLUE BACK.

## Off timer

Automatically turns power off after a set length of time has passed.

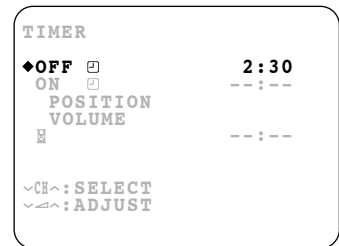


**1** Press **TIMER** to call **TIMER** screen.



**2** Press **CH ^** / **CH v** to select "OFF □".

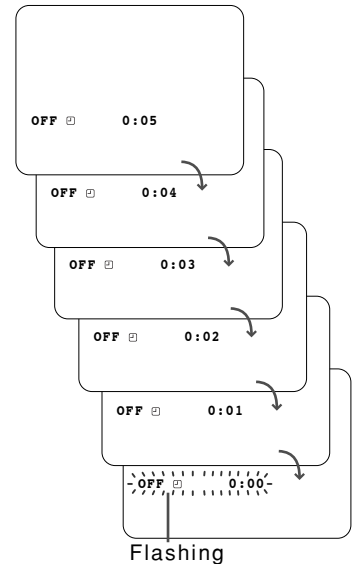
**3** Press **▲** / **▼** to set time for TV to turn off.



- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.

**4** Press **TIMER** to return to normal screen.

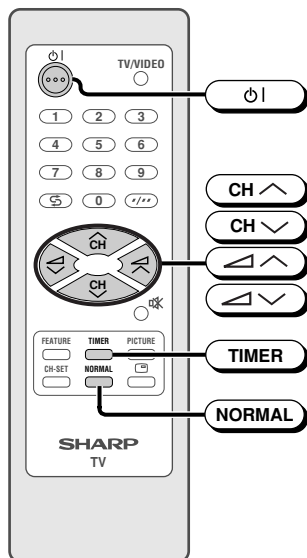
- Five minutes before the preset length of time expires (in the example, after two hours and 25 minutes), the remaining time appears on the screen for several seconds.
- A flashing display of the remaining time appears during the last few seconds.
- When the preset length of time has passed, the TV set enters the Standby mode.



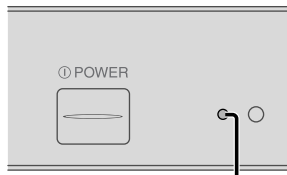
- NOTE**
- To cancel the timer setting, press **NORMAL** when "◆" is displayed on the left of "OFF □" so as to set the timer to "--:--".
  - The timer can be set in ten-minute intervals.
  - The Off timer is cancelled if the power is turned off or set to the Standby mode using **⏻** on the remote control or **ⓂPOWER** on the TV set, or if the power is otherwise interrupted.

## On timer

Automatically turns power on after a set length of time has passed.

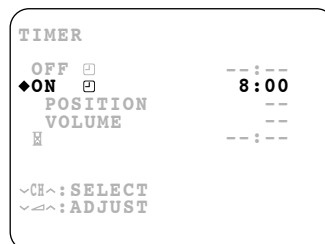


### TV Set

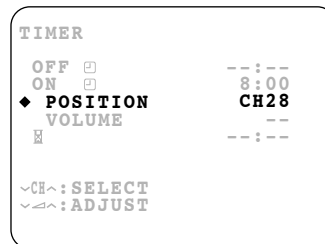


Power indicator (Flashing)

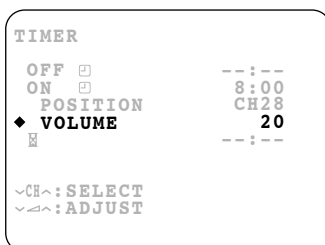
- 1 Press **TIMER** to call **TIMER** screen.
- 2 Press **CH ^** / **CH v** to select "ON".
- 3 Press **▲▲** / **▼▼** to set time for TV to turn on.
  - Maximum time that can be preset is 12 hours and 50 minutes.
  - As soon as the time is entered, the timer starts to count down.



- 4 Press **CH ^** / **CH v** to select "POSITION".
- 5 Press **▲▲** / **▼▼** to set the channel.



- 6 Press **CH ^** / **CH v** to select "VOLUME".
- 7 Press **▲▲** / **▼▼** to set volume.
- 8 Press **TIMER** to return to normal screen.
- 9 Press **Power** to put TV set into Standby mode.

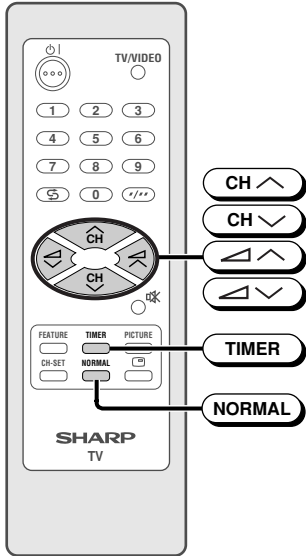


- Power indicator will flash to indicate On Timer is set.
- When the preset length of time (in the above example, eight hours) has passed, the power turns on and a picture appears on the screen.
- The On Timer speaker volume gradually increases from zero to the preset volume.

- NOTE**
- To cancel the timer setting, press **NORMAL** when "♦" is displayed on the left of "ON" so as to set the timer to "--:--".
  - The timer can be set in ten-minute intervals.
  - The On Timer is cancelled if the power is turned off using **Power** on the TV set.
  - If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

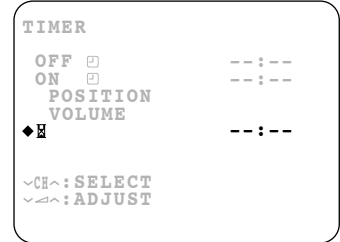
## Reminder on-screen timer

Lets you know when a preset length of time has passed by displaying a countdown timer on the screen. This is useful for timer cooking while you watch TV.



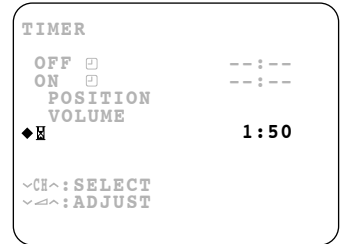
**1** Press **TIMER** to call **TIMER** screen.

**2** Press **CH** / **CH** to select “**◆**”.



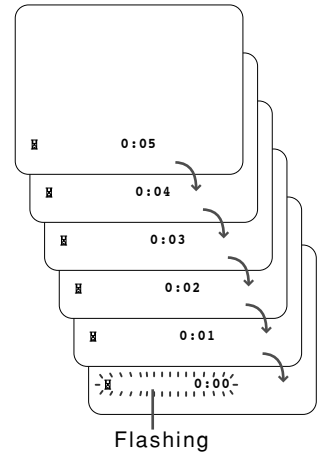
**3** Press **CH** / **CH** to set time.

- Maximum time that can be preset is 12 hours and 50 minutes.
- The right example shows that the Reminder will be activated after one hour 50 minutes.



**4** Press **TIMER** to return to normal screen.

- Five minutes before the preset length of time expires (in the example, after one hour and 45 minutes) and each minute thereafter, the remaining time appears on the screen for several seconds.
- When the preset length of time has passed, “**◆** 0:00” flashes in red.



**NOTE**

- This function also works in the Standby mode. Power is automatically turned on five minutes before the preset length of time expires. The TV set automatically returns to the Standby mode approximately 1 minute after the timer expired if no buttons are pressed on the TV set or remote control.
- The Reminder is cancelled if **POWER** on the TV set is pressed or if the power is otherwise interrupted.
- The timer can be set in ten-minute intervals.
- To cancel the timer setting, press **NORMAL** when “**◆**” is displayed on the left of “**◆**” so as to set the timer to “--:--”.



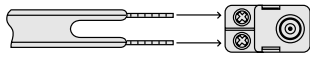
# Connections

## Connecting to an antenna

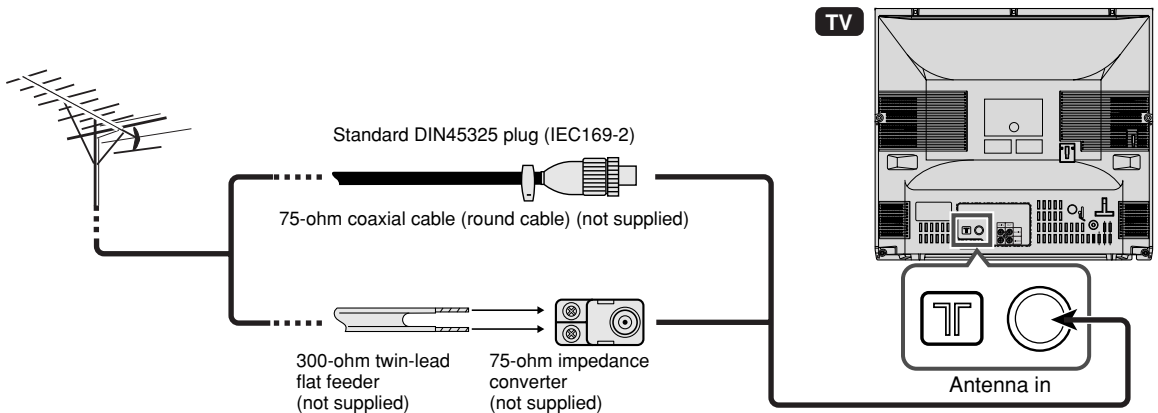
To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial and feeder cables.



If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the antenna jack at the rear of the set.

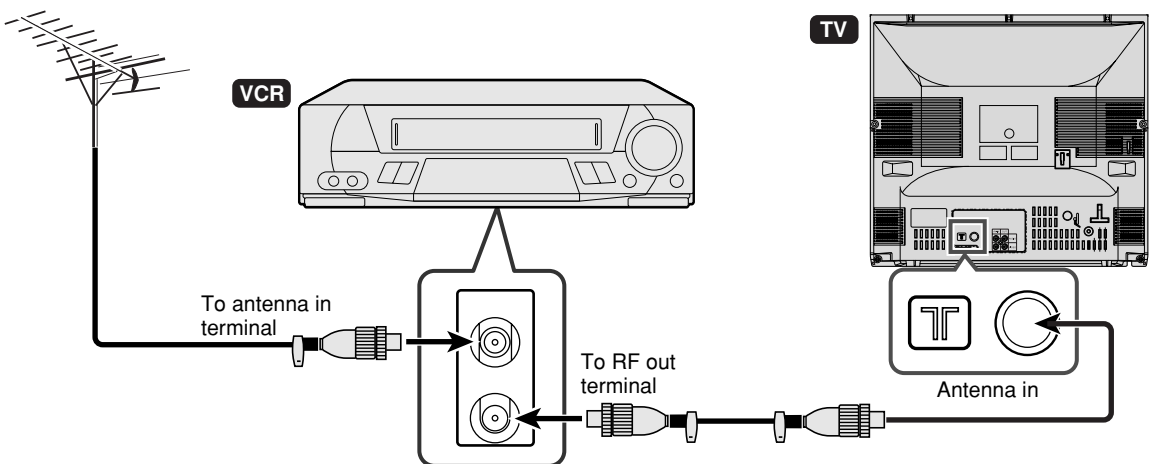


If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.



## Connecting to an antenna via a VCR

You can also connect the TV set to the tuner on a VCR using the connection shown below.



### NOTE

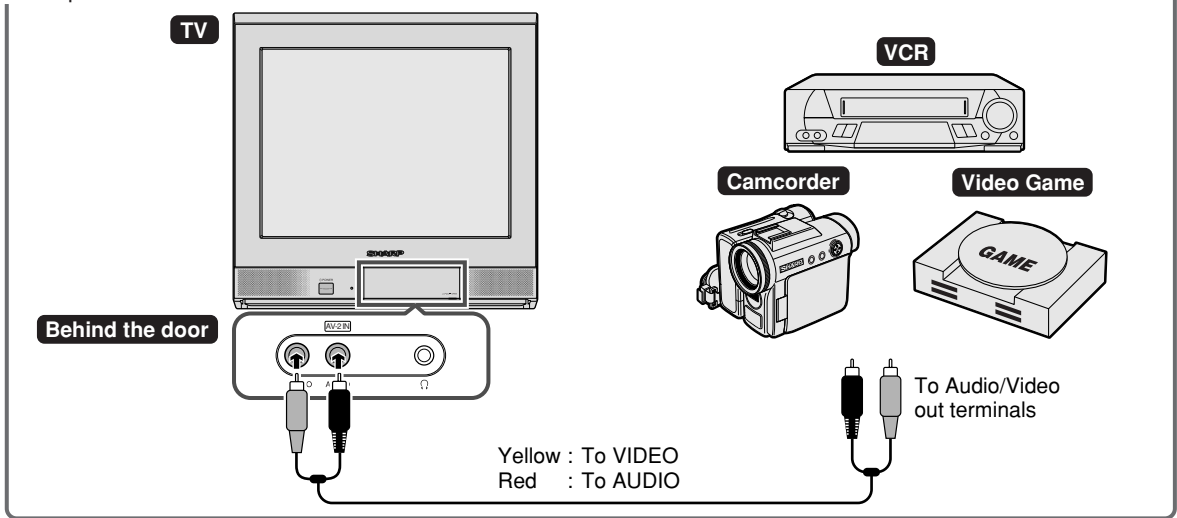
- When using the RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.
- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- See the operation manual of your VCR for connection details.

## Connections

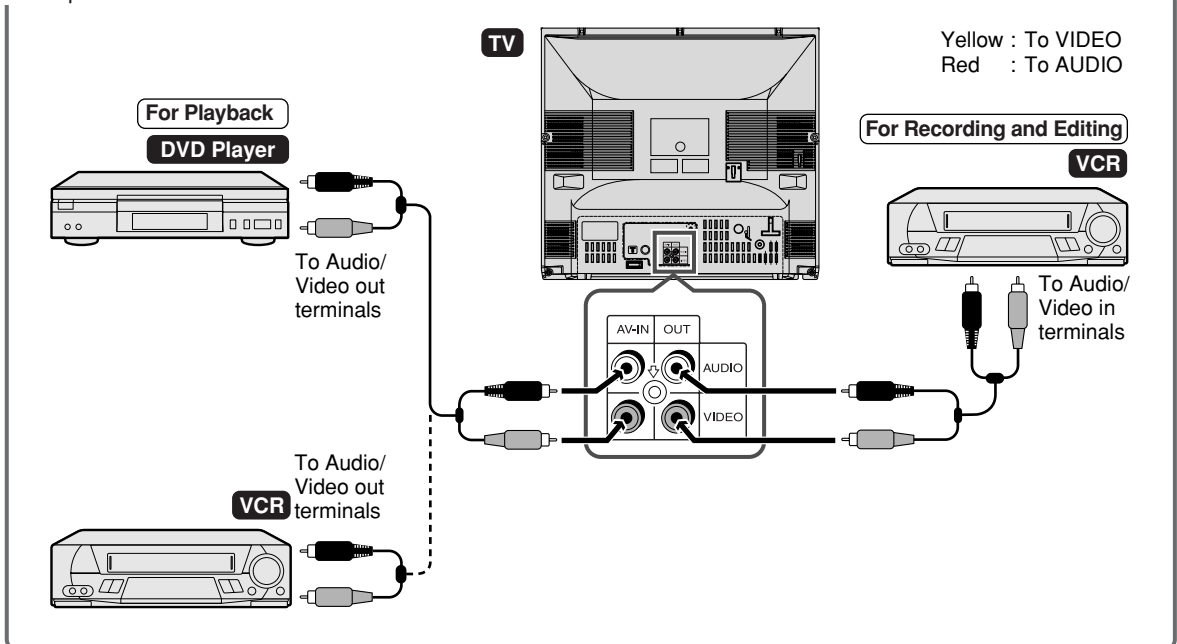
### Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals



Example use of rear terminals



#### NOTE

- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
- The above recording and editing connections are for intended solely for personal use and not for the illegal copying of audiovisual material protected by copyright laws.





# Troubleshooting

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.

If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List	Problems												
	Remote control does not work.	Bars on screen	Picture distorted.	Picture rolls vertically.	No colour	Poor reception on some channels	Picture weak.	Picture lines or streaks	Picture ghosting	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound
Possible Causes/Remedies													
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
① <b>POWER</b> switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the ① <b>POWER</b> switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the <b>NORMAL</b> button on the remote control to correct.											●		●
Increase the volume.												●	●

**NOTE** • This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.



# Specifications

MODEL		CX51HF3
Receiving System		
TV Broadcasts/ VCR Playback		PAL-B/G
VCR Playback (Using Video-in terminals)		PAL 60 Hz NTSC 3.58 MHz NTSC 4.43 MHz
Laserdisc Player Playback (Using RF-in terminals)		PAL 5.5 MHz/60 Hz
Reception Channels		
PAL-B/G	VHF	AU0-AU12 ch, NZ1-NZ11 ch, E2-E12 ch
	UHF	E21-E69 ch
CATV		S1-S20 ch, S21-S41 ch (Hyper)
Receiving Frequency		44.25 MHz – 863.25 MHz
Channel Tuning		100-Channel Electronic Tuner with Full Auto Tuning System
Picture Tube		51 cm Flat CRT
Terminals		Audio/video input × 2 (Front × 1, Rear × 1), Audio/video output × 1 (Rear) Headphone jack (Front × 1)
Sound Output		3 W (RMS) × 1
Power Source		Rated AC 220 – 240V, 50 Hz
Power Consumption		90 W
Dimensions		502 (W) × 487 (H) × 481.5 (D) mm
Weight		21.5 kg (Approx.)

**NOTE** ▶

- Design and specifications are subject to change without notice.
- Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.
- Reception channels: Some examples of the main receivable channels are shown above.

# Notes

# SHARP®

## WARRANTY

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If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

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