

# JVC

ENGLISH

## LT-Z32S2 LT-Z26S2

WIDE LCD PANEL TV

INSTRUCTIONS



**D.I.S.T.**  
Digital Image Scaling Technology

**CINEMA  
SURROUND**

LCT1597-001A



Thank you for buying this JVC LCD flat television.  
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.  
("LCD" stands for Liquid Crystal Display.)

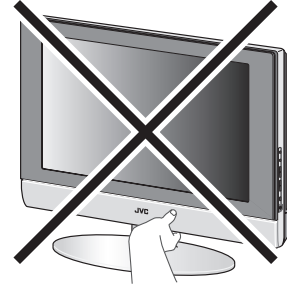
**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

**WARNING**

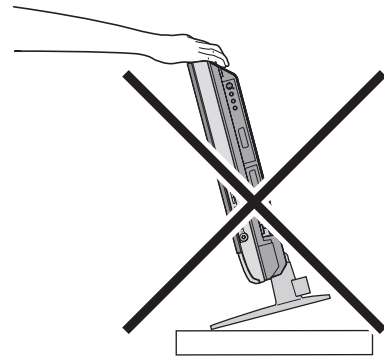
Always use the power cord which is supplied with the TV.

**WARNING**

- Fingers may be trapped under the TV causing injuries. Hold the TV at the bottom in the middle, and do not allow it to tilt up or down.

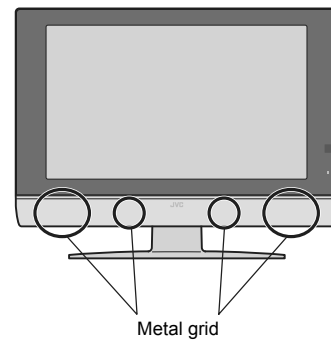


- The TV may fall causing injuries. Hold the bottom of the stand with your hand and tilt the TV up and down.
- Do not allow children to hang from the TV, place their elbows on the TV or lean against the TV. Doing so may cause the TV to fall over and lead to injuries.



**CAUTION**

Do not press hard on the speaker area at the bottom front panel of the TV.  
Doing so can cause a dent to occur on the metal grid.



### Point defects

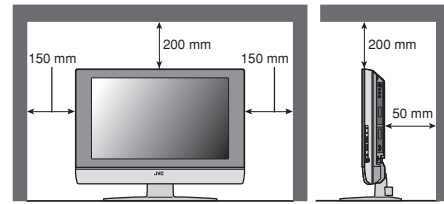
LCDs use collections of fine pixels to display images. While there is no problem with more than 99.99% of these pixels, please understand that a very small number of pixels may not light or may light all the time.

### Distance recommendations

Avoid improper installation and never position the unit where good ventilation is impossible.

When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture.

Keep to the minimum distance guidelines shown for safe operation.



### Failure to take the following precautions may cause damage to the television or remote control.

#### DO NOT block the TV's ventilation openings or holes.

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

#### DO NOT place anything on top of the TV.

(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)

#### DO NOT allow objects or liquid into the cabinet openings.

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

#### DO NOT place any naked flame sources, such as lighted candles, on the TV.

#### DO NOT subject the TV to direct sunlight.

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV.

Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully.

Never use any cleaner or detergent on it.

If there is a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

### ■ Cleaning the screen

The screen is coated with a special thin film to reduce reflection. If this film is damaged, uneven colors, discoloration, scratches, and other problems that can not be repaired may occur. Pay attention to the following when handling the screen.

- Do not use glue or adhesive tape on the screen.
- Do not write on the screen.
- Do not allow the screen to come in contact with any hard objects.
- Do not allow condensation to form on the screen.
- Do not use alcohol, thinner, benzene or other solvents on the screen.
- Do not rub the screen hard.

### CAUTION:

- Operate only from the power source specified (AC 110–240 V, 50/60 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.

### D.I.S.T. demonstration

To start the D.I.S.T. demonstration:

Press the **OK** button to display the MENU (main menu). Then press the yellow button.

A picture split in two (D.I.S.T. turned on and D.I.S.T. turned off) will appear on the screen.

To quit the D.I.S.T. demonstration:

Press the yellow button, **TV** button, **P**  $\vee/\wedge$  buttons or any of the number buttons.

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# Setting up your TV

- When you install the TV on the wall, only use a JVC wall mounting unit (optional) which is designed for this TV.
- Ensure that the TV is installed on the wall by a skilled installer.

## Installation

### Cautions for installation

- Install the TV in a corner on a wall or on the floor so as to keep cords out of the way.
- The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling. See “Distance recommendations” on page 2.

A protective sheet is affixed to the TV panel frame.

## Using the stand

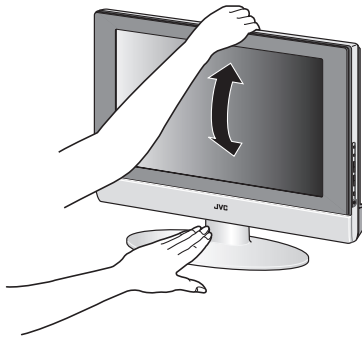
### This TV comes with a Table Top Stand already attached.

This stand can be used to adjust the direction of the TV screen 5° up, 10° down, and 20° to the left or right.

#### ■ Tilt the TV up and down:

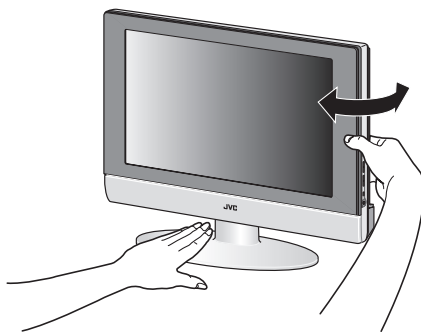
While holding the bottom of the stand with one hand, use your other hand to hold the middle of the top of the TV and slowly tilt the TV up and down.

- As a safety measure, the stand is constructed so that it requires a certain amount of force to tilt the TV.



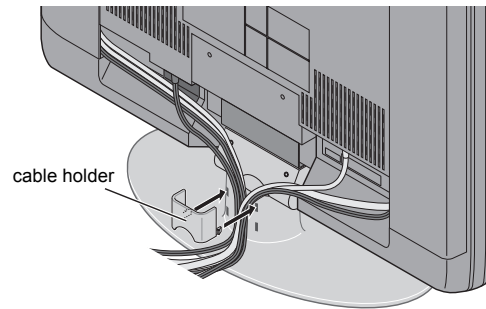
#### ■ Rotate the TV to the left and right:

While holding the bottom of the stand with one hand, use your other hand to hold the edge of the panel and slowly adjust the direction of the TV screen.



#### ■ Cable holder

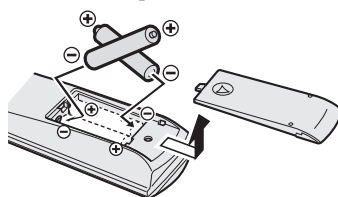
A cable holder which is used to keep the connection cables tidy is attached to the back of the stand. Gently squeeze the left and right of the cable holder and pull it to remove it from the stand. After putting the cables in the cable holder, attach it to the back of the stand again.



## Putting the batteries into the Remote control

Use two AA/R6 dry cell batteries.

Insert the batteries from the  $\ominus$  end, making sure the  $\oplus$  and  $\ominus$  polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on your frequency of use.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as necessary.
- If the remote control does not work properly, replace the batteries.

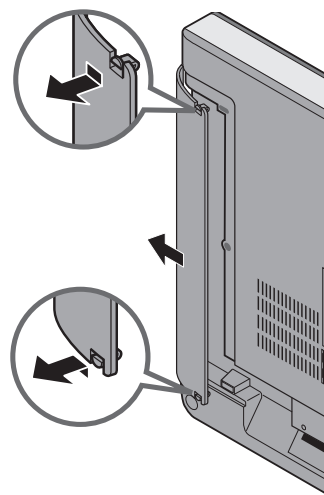
## Remove the terminal covers

There are connection terminals behind the covers on the left and right of the rear of the TV. Remove these two covers before connecting an antenna or VCR.

### For LT-Z32S2

Remove the covers by removing the hooks.

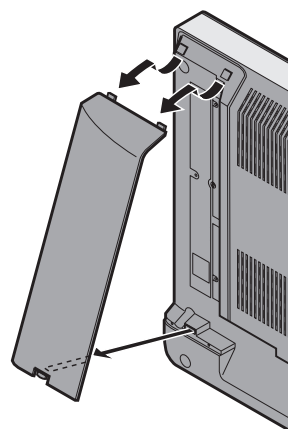
When replacing the covers, place the side of the covers against the TV and insert the hooks.



### For LT-Z26S2

The covers can be removed by removing the hook at the bottom and then pulling out while lifting slightly. To replace the covers, first connect the hook at the top of the cover to the TV and then insert the hook at the bottom.

- Leave these covers off when mounting the TV on a wall.



- Leave the covers off if they do not fit properly. Do not force to replace the covers. Doing so may cause damages of the connection cables and the covers.

## Connecting the aerial and VCR

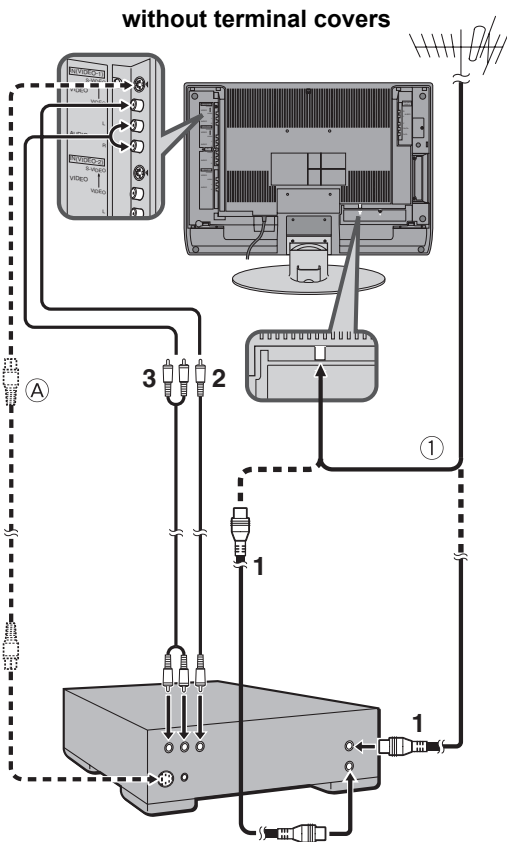
- Aerial cable is not supplied. Use a good quality 75-ohm coaxial cable.
- Read the manual that came with the VCR before connecting.

**If not connecting a VCR (follow ①):**  
**Connect an aerial cable to the aerial socket on this TV.**

**If connecting a VCR:**

- 1 Connect the aerial cable to the aerial input socket on the VCR, and connect the VCR and TV with another aerial cable**
- 2 Connect the VCR's VIDEO OUT (video output) terminal and the TV's VIDEO terminal with a video cable**  
 To connect a VCR to the TV with an S-VIDEO cable:  
 Connect the VCR's S-VIDEO OUT (S-VIDEO output) terminal and TV's S-VIDEO terminal with an S-VIDEO cable (A), instead of connecting with a video cable.  
 Note that the connection with a video cable will be ignored in case you connect a VCR to the TV with both video cable and S-VIDEO cable.
- 3 Connect the VCR's VIDEO OUT (audio L/R output) terminals and the TV's AUDIO terminals with an audio cable**

- To connect additional external devices, please see "Connecting the external devices" on page 29.



## Connecting the power cord to the AC outlet

Insert the AC plug on the power cord from the TV into AC outlet. The power lamp will light and the TV will enter standby mode.

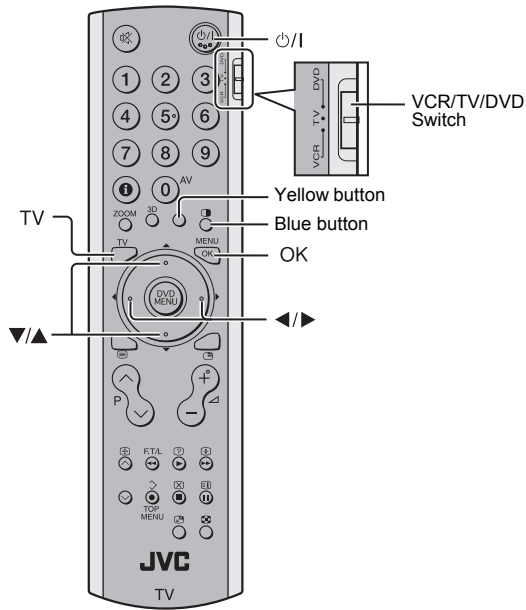
### Caution

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Remove the AC plug from the outlet to completely disconnect the TV from the power supply.



# Initial settings

When the TV is first turned on, it enters the initial setting mode, and the JVC logo is displayed. Follow the instructions on the on-screen display to make the initial settings.



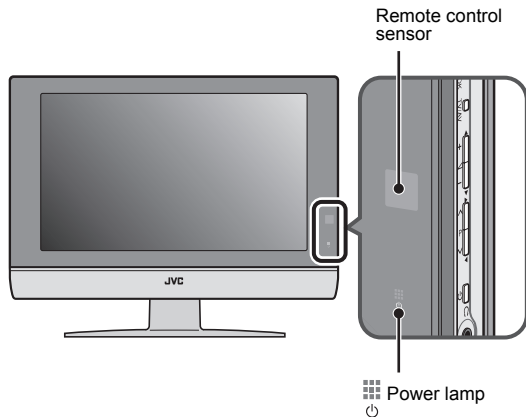
## 1 Make sure to set the VCR/TV/DVD switch to the TV position.

- You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

## 2 Press the P/I button on the remote control

The TV turns on from standby mode and the JVC logo is displayed.

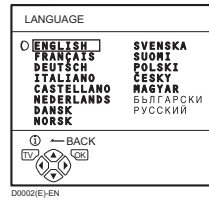
- Check that the AC plug on the power cord from the TV is connected to AC outlet.



- The JVC logo does not appear when your TV has been turned on once. In this case, use the "LANGUAGE" and "AUTO PROGRAM" functions to make the initial settings. For details, see "INSTALL" on page 25.

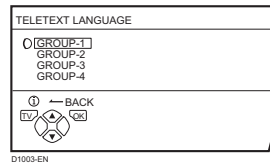
## 3 Press the OK button

The LANGUAGE menu appears.



## 4 Press the Left/Right and Up/Down buttons to choose ENGLISH. Then press the OK button

English is set for the on-screen display description. The TELETEXT LANGUAGE menu appears as a sub-menu of the AUTO PROGRAM function.



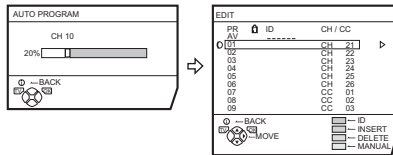
## 5 Press the Up/Down buttons to choose the teletext language group that corresponds to language of teletext programme that you want to watch

Group	Languages
GROUP-1	Turkish, Hungarian, English, German, French, Italian, Spanish, Portuguese, Greek, Swedish, Finnish
GROUP-2	Polish, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian, Hungarian, German, French, Italian, Swedish, Finnish
GROUP-3	Russian, Bulgarian, Lettish, Lithuanian, Estonian, Ukrainian, Serbian, Croatian, Slovenian, Czech, Slovak, English, German
GROUP-4	Arabic, Czech, Slovak, Hungarian, English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish

## 6 Press the blue button to start the AUTO PROGRAM function

The AUTO PROGRAM menu appears and received TV channels are automatically registered in the Programme numbers (PR).

- To cancel the AUTO PROGRAM function:  
Press the **TV** button.

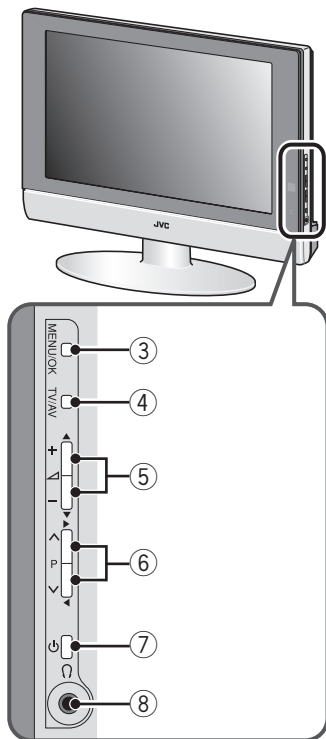
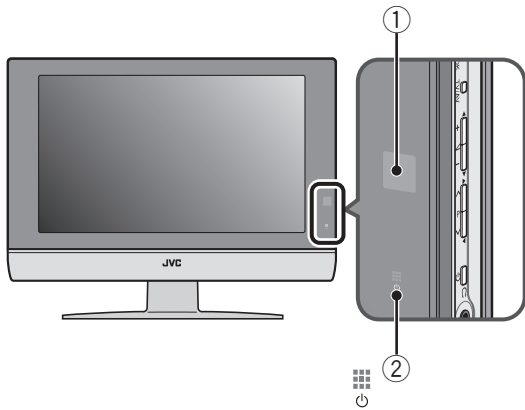


After the TV channels have been registered in the Programme numbers (PR), the EDIT menu appears

- You can proceed to edit the Programme numbers (PR) using the EDIT/MANUAL function. For details, see "EDIT/MANUAL" on page 25.
- If you do not need to use the EDIT/MANUAL function, go to the next step.

## 7 Press the OK button

# TV buttons and functions



Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (page 7)
- ③ MENU/OK button (pages 9, 17)
- ④ TV/AV button (page 9)
- ⑤  $\nabla/\Delta$  (Volume)  $-/+$  buttons (page 9)
- ⑥ P  $\nabla/\Delta$  buttons (page 9)
- ⑦  $\text{⏻}$  (Stand by) button (page 9)
- ⑧ Headphone jack (mini jack) (page 29)

## Turn the TV on from standby mode

Press the  $\text{⏻}$  button or P  $\nabla/\Delta$  buttons to turn the TV on from standby mode

When the TV is turned on, the power lamp dims slightly.

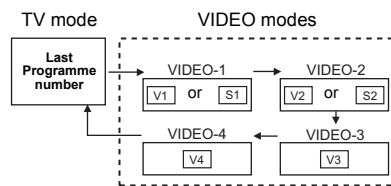
- Check that the AC plug on the power cord from the TV is connected to correctly AC outlet.

## Choose a TV channel

Press the P  $\nabla/\Delta$  buttons to choose a programme number (PR) or an VIDEO terminal

## Watch images from external devices

Press the TV/AV button to choose a VIDEO terminal



- The leading character is changed from V to S (e.g. V1 is changed to S1) when VIDEO-1 or VIDEO-2 is connected to the S terminal.

## Adjust the volume

Press the  $\nabla/\Delta$  buttons

The volume level indicator appears.

## Using the headphone

- The headphone volume is adjusted with the "HEADPHONE" menu (see page 22).

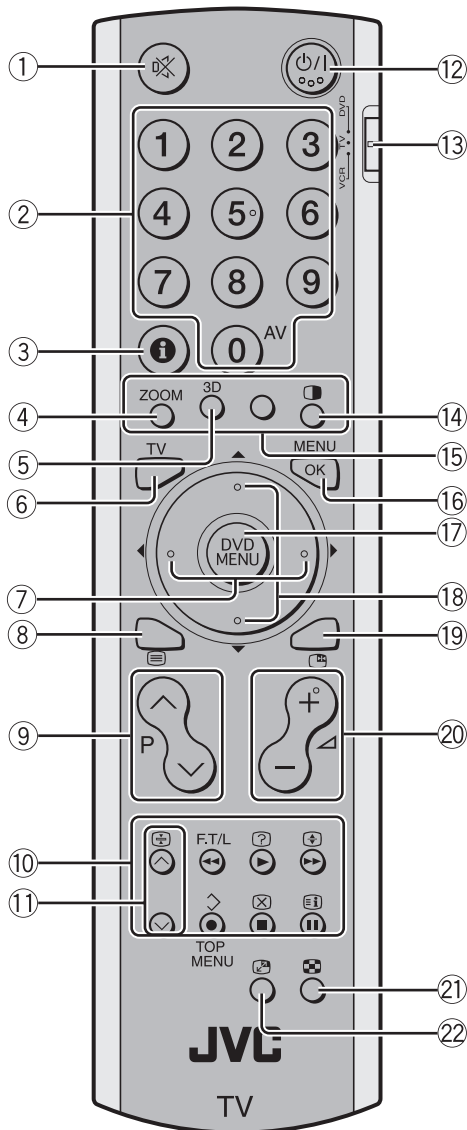
## Using the Menu

Use the MENU/OK button.

Refer to "Using the TV's menu" (see page 17) for details of using the menu.

# Remote control buttons and functions

ENGLISH



- ① Muting button
- ② Number buttons
- ③ Information button
- ④ **ZOOM** button
- ⑤ **3D** sound button
- ⑥ **TV** button
- ⑦ ◀▶ buttons
- ⑧ ☰ (Text) button
- ⑨ **P** ∨/∧ buttons
- ⑩ VCR/DVD/Teletext control buttons
- ⑪ ∨/∧ buttons
- ⑫ Standby button
- ⑬ VCR/TV/DVD switch
- ⑭ **M** button
- ⑮ Colour buttons
- ⑯ **OK** button
- ⑰ **DVD MENU** button
- ⑱ ▼/▲ buttons
- ⑲ 🏠 button
- ⑳ -/+ buttons
- ㉑ ⏏ button
- ㉒ ⏮ button

## Turn the TV on or off from standby mode

- 1 Make sure to set the VCR/TV/DVD switch to the TV position.**
  - You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.
- 2 Press the ⏻/⏼ (Standby) button to turn the TV on or off.**

When the TV is turned on, the power lamp dims slightly.

  - The power can be turned on by pressing the **TV** button, **P** ∨/∧ buttons or Number buttons.
  - Check that the AC plug on the power cord from the TV is connected to AC outlet.

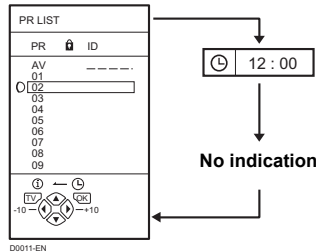
## Choose a TV channel

- **Use the number buttons:**  
**Enter the programme number (PR) of the channel using the number buttons.**  
 Example:
  - PR 6 → press **6**
  - PR 12 → press **1** and **2**
- **Use the P ∨/∧ buttons:**  
**Press the P ∨/∧ buttons to choose the programme number (PR) you want.**

## ■ Use the PR LIST:

### 1 Press the **i** (Information) button to display the PR LIST

Pressing the **i** (Information) button changes the display as follows:



### 2 Press the **◀/▶** and **▼/▲** buttons to choose a Programme number (PR). Then press the **OK** button

- For Programme numbers (PR) with the CHANNEL GUARD function set, the **Ⓜ** (CHANNEL GUARD) mark is displayed next to the Programme number (PR) in the PR LIST.
  - You cannot use the **▼/▲** buttons to choose a Programme number (PR) with the CHANNEL GUARD function set.
  - Even if you try to choose a Programme number (PR) with the CHANNEL GUARD function set, the **Ⓜ** (CHANNEL GUARD) mark will appear, and you cannot watch the TV channel. To watch the TV channel, see “CHANNEL GUARD” on page 23.
- 
- If you do not have a clear picture or no colour appears, follow the operation procedure “COLOUR SYSTEM” (see page 20).
  - The sound system is chosen automatically. However, if you cannot hear the sound normally even when the picture appears normally, choose the sound system manually. Refer to the MANUAL on the “INSTALL” menu (see page 25) for details of choosing the sound system.

## Adjust the volume

### Press the **◀ -/+** buttons to adjust the volume.

The Volume indicator appears and the volume changes as you press the **◀ -/+** buttons.

- The headphone volume is adjusted with the “HEADPHONE” menu (see page 22).

## ■ Muting the sound

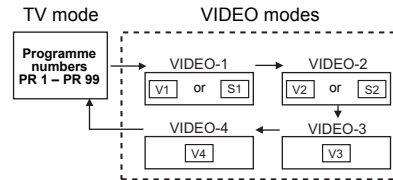
### Press the **Ⓜ** (muting) button to turn off the sound.

Pressing the **Ⓜ** (muting) button again restores the previous volume level.

## Watch images from external devices

### ■ Use the **0 (AV)** button:

#### Press the **0 (AV)** button to choose a VIDEO terminal.



- The leading character is changed from V to S (eg V1 is changed to S1) when VIDEO-1 or VIDEO-2 is connected to the S terminal.

### ■ Use the **P V/Λ** buttons:

#### Press the **P V/Λ** buttons to choose a VIDEO terminal.

### ■ Use the PR LIST:

#### 1 Press the **i** (Information) button to display the PR LIST

#### 2 Press the **◀/▶** and **▼/▲** buttons to choose a VIDEO terminal. Then press the **OK** button

- The VIDEO terminals are registered after the Programme number PR 99.
- If you do not have a clear picture or no colour appears, change the colour system manually. See “COLOUR SYSTEM” on page 20.

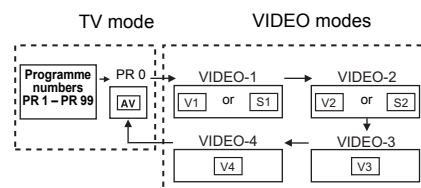
#### To return to a TV channel:

Press the **TV** button or the Number buttons.

#### To use the Programme number PR 0 (AV):

When the TV and VCR are connected only by the Aerial cable, choosing the Programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the Programme number PR 0 (AV) manually. For details, see “EDIT/MANUAL” on page 25.

Pressing the **0 (AV)** button changes the choice as follows:



- The VCR RF channel is sent as the RF signal from the VCR.
- Also refer to your VCR instruction manual.

## ZOOM function

You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

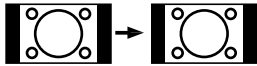
### AUTO:

When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal. If a WSS signal is not included, the picture is displayed in accordance with the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see “4:3 AUTO ASPECT” on page 20.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.

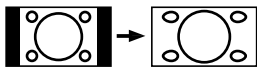
### REGULAR:

Use to view a normal picture (4:3 aspect ratio) as its original size is.



### PANORAMIC:

This mode stretches the left and right sides of a normal picture (4:3 Aspect Ratio) to fill the screen, without making the picture appear unnatural.



- The top and bottom of the picture are slightly cut off.

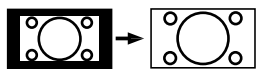
### 14:9 ZOOM:

This mode zooms up the Wide Picture (14:9 Aspect Ratio) to the upper and lower limits of the screen.



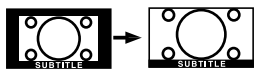
### 16:9 ZOOM:

This mode zooms up the Wide Picture (16:9 Aspect Ratio) to the full screen.



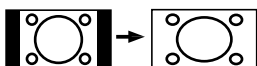
### 16:9 ZOOM SUBTITLE:

This mode zooms up the Wide Picture (16:9 Aspect Ratio) with subtitles to the full screen.



### FULL:

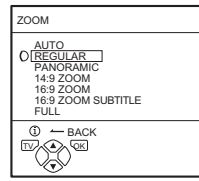
This mode uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), you can restore their original dimensions.

## Choose the ZOOM mode

### 1 Press the **ZOOM** button to display the ZOOM menu



- The **ZOOM** button does not work in the twin pictures mode.

### 2 Press the **▼/▲** buttons to choose a ZOOM mode. Then press the **OK** button

The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

## Adjusting the visible area of the picture

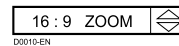
If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

### 1 Press the **ZOOM** button

The ZOOM menu appears.

### 2 Press the **OK** button to display the ZOOM mode indication

Indicator is displayed.



### 3 While it is displayed, press the **▼/▲** buttons to adjust the visible area vertically

- You cannot adjust the visible area in REGULAR or FULL mode.

## CINEMA SURROUND function

You can enjoy sounds with a wider ambience.

### Press the **3D** button to turn the CINEMA SURROUND function on or off

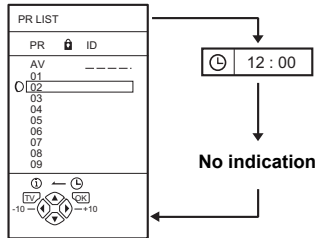
- The CINEMA SURROUND function does not work properly with mono sound.
- The CINEMA SURROUND function can be also turned on or off by using the SOUND SETTING menu. For details, see “CINEMA SURROUND” on page 21.

## Displaying the current time

You can display the Current Time on the screen.

### Press the **i** (Information) button to display the current time

Pressing the **i** (Information) button changes the display as follows:



- This TV uses teletext data to set the current time. If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To view the current time, choose a TV channel that has teletext programmes.
- When watching videos, an incorrect current time is sometimes displayed.

## Return to TV channel instantly

You can return to a TV channel instantly.

### Press the **TV** button

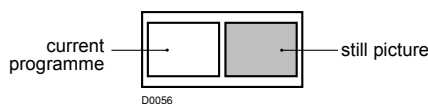
The TV returns to the TV mode and a TV channel appears.

## Using the FREEZE function

You can view the current programme as a still picture.

### 1 Press the **Freeze** button

The still picture of the current picture will appear.



#### To cancel the FREEZE function:

Press the **Freeze** button, the **P**  $\nabla/\wedge$  buttons or the number buttons.

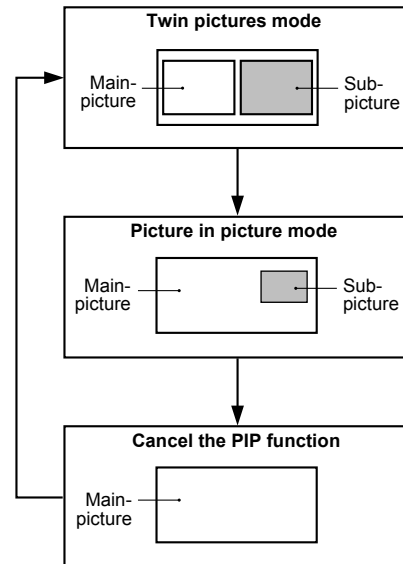
- The FREEZE function does not work while a sub-picture is displayed.
- The still picture cannot be output from the TV.
- The FREEZE function is cleared if no operation is performed for approximately one minute.

## Using the PIP function

You can view two pictures (Main-picture and sub-picture). A TV programme and a video programme from an external device can be watched at the same time.

### 1 Press the **PIP** button

Pressing the **PIP** button changes the PIP mode as follows:



### 2 Press the $\nabla/\wedge$ buttons to change the sub-picture to the picture from another TV channel or another VIDEO terminal

#### Listening to the sound of the sub-picture:

You can listen to the sound of the sub-picture with the headphones while listening to the sound of the main-picture from the TV speakers.

For details, see "HEADPHONE" on page 22.

- The sub-picture sound is monaural.

#### Changing the position of the sub-picture:

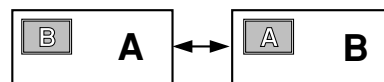
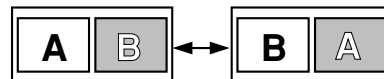
You can choose one of four positions.

For details, see "PIP" on page 20.

#### Swapping the main-picture and sub-picture:


Press the **Swap** button.




The main-picture and sub-picture will be swapped.



D0051


**Cancelling the PIP function:**

Press the  button or **TV** button.

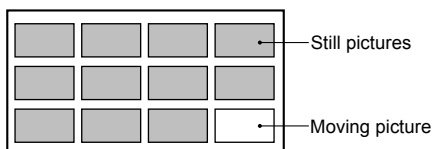
- If the main-picture signal is poor, the quality of the sub-picture may also be poor.
- If the pictures have different standards, the top and bottom of one of them may be missing.
- If an external device is operated, the sub-picture may disappear. If this happens, press the  button again to redisplay the sub-picture.
- You cannot view a scrambled channel in the sub-picture. If the  button is pressed when viewing a scrambled channel in the main-picture using an external decoder, the channel you have been viewing in the sub-picture will appear in both the main-picture and sub-picture.
- The ZOOM function does not work in the twin-picture mode.
- Do not press the  button while you are recording the TV output on the VCR. If you do, the TV output signal will change.
- The BLUE BACK function does not work in the twin picture mode or the picture-in-picture mode.
- PIP function does not work for a picture of 1125i signal. See "VIDEO-4 terminal" on page 34 for more information on this type of signal.
- A picture of 625p or 525p signal cannot be displayed as the sub-picture. See "VIDEO-4 terminal" on page 34 for more information on this type of signal. Pay attention to the following.
  - When the VIDEO-4 picture is a picture of 625p or 525p signal, you cannot choose VIDEO-4 with the  $\vee/\wedge$  buttons.
  - When the VIDEO-4 picture signal is changed to 625p, 525p or 1125i signal while the VIDEO-4 picture is displayed as the sub-picture, the PIP function is cancelled.
  - The pictures cannot be swapped when a picture of 625p or 525p signal from VIDEO-4 is being displayed as the main picture.
- The sub-picture cannot be output from the TV.

**Using the MULTI-PICTURE function**

You can display multi-pictures that enable you to easily find a program you want to view.

**1 Press the  button to display multi-pictures**

The channels are displayed in the channel number order. The multi-pictures will appear in multi-picture mode.

**12-pictures multi:**

D0058-EN

**2 Press the  $\vee/\wedge$  buttons to choose the screen you want to see**

The chosen picture changes to a moving picture.

**3 Press the OK button**

The multi-pictures disappear and the chosen picture appears.

**Cancelling the multi-pictures:**

Press the **TV** button, the number buttons or the **OK** button.

- Pictures from external devices cannot be displayed in the 12-pictures multi mode.

**Operating a JVC brand VCR or DVD player**

You can operate a JVC brand VCR or DVD player. Pressing the button having the same appearance as the original remote control button of a device makes the function work in the same way as the original remote control.

**1 Set the VCR/TV/DVD Switch to the VCR or DVD position****VCR:**

When you are operating the VCR, set the switch to the VCR position. You can turn the VCR on or off with the  $\odot/I$  (Standby) button.

**DVD:**

When you are operating the DVD player, set the switch to the DVD position. You can turn the DVD player on or off with the  $\odot/I$  (Standby) button.

**2 Press the VCR/DVD Control Button to control your VCR or DVD player**

- If your device is not made by JVC, these buttons cannot be used.
- Even if your device is made by JVC, some of these buttons or any one of the buttons may not work, depending on the device.
- You can use the  $\vee/\wedge$  buttons to choose a TV channel. The VCR will receive or choose the chapter the DVD player plays back.
- Some DVD player models use the  $\vee/\wedge$  buttons for both operating of Fast forward/backward functions and choosing the chapter. In this case, the  $\blacktriangleleft/\blacktriangleright$  buttons do not work.
- Set the VCR/TV/DVD switch to the TV position when you turn the TV on or off.

**■ To use DVD MENU button**

Some DVDs allow you to select the disc contents using the menu. When you playback these DVDs, you can select the subtitle language and sound-track language, etc. by using the DVD menu.

**1 Press DVD MENU button during play back**

The DVD menu appears on the screen.

- Press **DVD MENU** button again to resume playback at the scene when you pressed the button.

**2 Press  $\nabla/\blacktriangle$  or  $\blacktriangleleft/\blacktriangleright$  buttons to select the desired item****3 Press OK button**

The menu continues to another screen.

Repeat steps 2 and 3 to set additional items if any.



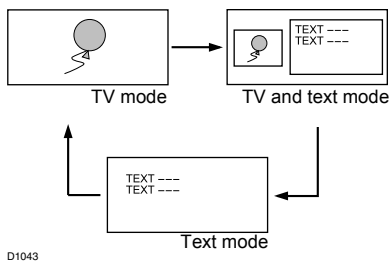
# Teletext function

## Basic operation

- 1 Choose a TV channel with a teletext broadcast
- 2 Make sure to set the VCR/TV/DVD switch to the TV position.



- 3 Press **TEXT** button to display the teletext  
Pressing **TEXT** (Text) button changes the mode as follows:



- 4 Choose a teletext page by pressing the **P**  $\nabla/\wedge$  buttons, **Number buttons** or **Colour buttons**

### To return to the TV mode:

Press the **TV** button or **TEXT** (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not operate in the TV and text mode or Text mode.
- No menu operations are possible when viewing a teletext programme.
- Language display depends on the country which was set on the TELETEXT LANGUAGE menu. If characters on a Teletext programme do not appear properly, change the TELETEXT LANGUAGE Setting to other country's. For detail, "Changing the TELETEXT LANGUAGE setting" on page 28.

## Using the List Mode

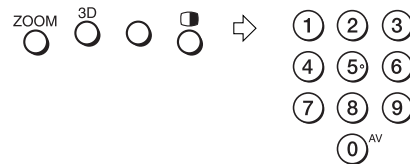
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

### To store the page numbers:

- 1 Press **F.T/L** button to engage the List mode

The stored page numbers are displayed at the bottom of the screen.

- 2 Press a **Colour button** to choose a position. Then press the **Number buttons** to enter the page number



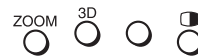
- 3 Press and hold down **Store** button

The four page numbers blink white to indicate that they are stored in memory.

### To call up a stored page:

- 1 Press the **F.T/L** button to engage the List mode

- 2 Press a **colour button** to which a page has been assigned



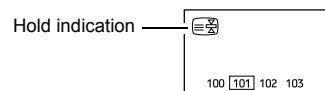
### To exit the List mode:

Press the **F.T/L** button again.

## Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

### Press the **Hold** button



### To cancel the Hold function:

Press **Hold** (Hold) button again.

---

## Sub-page

---

Some teletext pages include sub-pages that are automatically displayed.

### 1 Choose a teletext page that includes sub-pages

Sub-page numbers that can be viewed are automatically displayed at the top of the screen.

### 2 Press the ◀/▶ buttons to choose a sub-page number


---

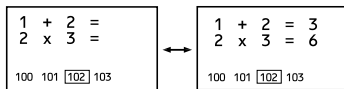
## Reveal

---

Some teletext pages include hidden text (such as answers to a quiz).

You can display the hidden text.

Each time you press the  (Reveal) button, text is hidden or revealed




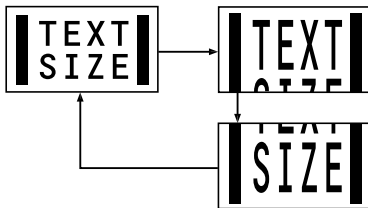

---

## Size

---

You can double the height of the teletext display.

Press the  (Size) button.




---

## Index

---

You can return to the index page instantly.

Press  (Index) button

Returns to page 100 or a previously specified page.

---

## Cancel

---

You can search for a teletext page while watching TV.


### 1 Press the Number button to enter a page number, or press a Colour button

The TV searches for a teletext page.

### 2 Press (Cancel) button

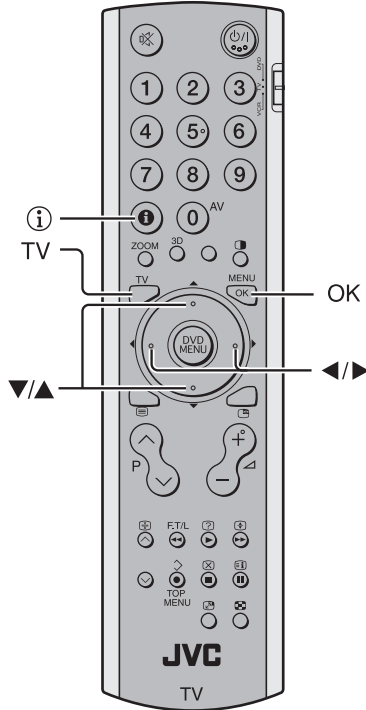
The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

### 3 Press (Cancel) button to return to a teletext page when the page number is on the screen

- The TV mode cannot be resumed even by pressing the  (Cancel) button. A TV programme is temporarily displayed instead of the teletext programme.

# Using the TV's menu

This TV has a number of functions you can operate using menus. To fully utilize all your TV's functions, you need to understand the basic menu operating techniques fully.



### 3 Press the **▼/▲** buttons to choose a function

- For details of the functions in the menus, see the following pages.

### 4 Press the **◀/▶** buttons to choose the setting of that function

- If you want to operate a function which appears only with its name, follow the descriptions of that function on the following pages.
- The display appearing at the bottom of a menu shows you a button on the remote control that you can use when you operate a chosen function.

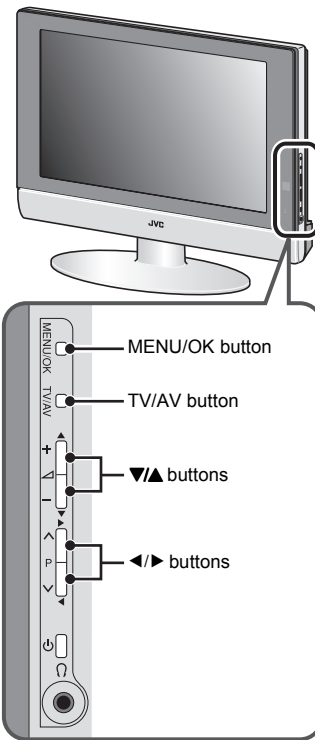
### 5 Press the **OK** button to complete the setting

The menu disappears.

- When watching the television with the NTSC system, the menus are displayed at about half of their normal vertical size.
- The menu will disappear if you press the **P** **▼/▲** buttons while the menu is displayed.

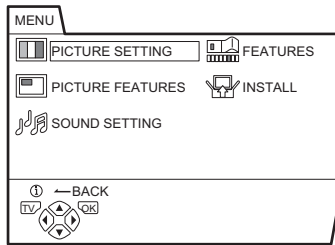
### Operation with the buttons on the TV

You can also operate the menus using the buttons on the front panel of the TV.

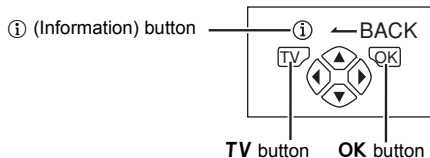


## Basic operation

### 1 Press the **OK** button to display the MENU (main menu)



- Press the **OK** button twice while watching the MULTI-PICTURE mode.
- The display appearing at the bottom of a menu indicates buttons on the remote control you can use when you operate a chosen function.



### 2 Press the **◀/▶** and **▼/▲** buttons to choose a menu title, and press the **OK** button

The menu appears.

**To return to the previous menu:**

Press the **i** (information) button.

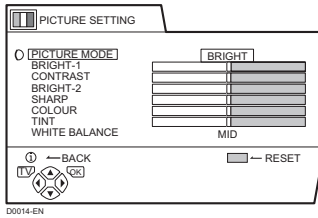
**To exit a menu instantly:**

Press the **TV** button.

The menu will disappear if no operation is performed for approximately one minute.

# PICTURE SETTING

Refer to “Using the TV’s menu” (see page 17) for details of displaying the menu.



## PICTURE MODE

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

### **BRIGHT:**

Heightens contrast and sharpness.

### **STANDARD:**

Standardizes picture adjustment.

### **SOFT:**

Softens contrast and sharpness.

## Picture Adjustment

You can change the picture settings of each PICTURE MODE mode as you like.

### **BRIGHT-1:**

You can adjust the back light.

◀ : darker

▶ : brighter

### **CONTRAST:**

You can adjust the picture contrast.

◀ : lower

▶ : higher

### **BRIGHT-2:**

You can adjust the picture brightness.

◀ : darker

▶ : brighter

### **SHARP:**

You can adjust the picture sharpness.

◀ : softer

▶ : sharper

### **COLOUR:**

You can adjust the picture colour.

◀ : lighter

▶ : deeper

### **TINT:**

You can adjust the picture tint.

◀ : reddish

▶ : greenish

- You can change the TINT setting (picture hue) when the colour system is NTSC 3.58, NTSC 4.43 or a signal from the VIDEO-4 terminal. However, operation is not possible when the PIP function main picture is set to VIDEO-4.

### **To return to the default settings in each PICTURE MODE:**

Press the blue button.

- This returns the picture settings in the PICTURE MODE mode you have chosen to the default settings, and stores them in the PICTURE MODE mode.

## WHITE BALANCE

You can select one of three WHITE BALANCE modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the WHITE BALANCE mode affects the appearance of all the other colours on the screen.

### **COOL:**

A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

### **MID:**

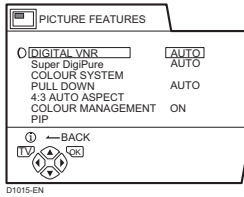
The normal white colour.

### **WARM:**

A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

# PICTURE FEATURES

Refer to “Using the TV’s menu” (see page 17) for details of displaying the menu.



## DIGITAL VNR

The DIGITAL VNR function cuts down the amount of noise in the original picture.

You can choose from the three DIGITAL VNR function settings of AUTO, MIN and MAX.

### AUTO:

The TV will automatically adjust the level of the DIGITAL VNR effect to match the amount of noise in the picture, giving you the best possible picture.

- If you set the DIGITAL VNR effect too high it can make the picture less sharp. It is recommended to use the AUTO setting if you can.
- AUTO cannot be chosen when you are watching the VIDEO-4 picture.

### MIN:

The level of the DIGITAL VNR effect is set to the minimum. If you set the DIGITAL VNR function to AUTO but feel that the sharpness of the original picture has not been reproduced fully, change the setting from AUTO to MIN.

- The MIN setting is not suitable for low-quality pictures which contain a lot of noise.

### MAX:

The level of the DIGITAL VNR effect is set to the maximum. If you set the DIGITAL VNR function to AUTO but still notice some noise, change the setting from AUTO to MAX.

- The MAX setting is not suitable for high-quality pictures which contain very little noise.
- When a picture of 625p, 525p, or 1125i signal is being displayed, the AUTO setting cannot be chosen with the DIGITAL VNR function.
- See “VIDEO-4 terminal” on page 34 for more information on this type of signal.

## Super DigiPure

The Super DigiPure function uses the latest in digital technology to give you a natural-looking picture. The Super DigiPure function includes the following two functions.

### DigiPure function:

This function helps to create a natural-looking picture by eliminating unnecessary edges from high-contrast and crisp images. For images with low-contrast, edges are added to produce a sharper, more detailed picture.

You can choose from the three DigiPure function settings of AUTO, MIN and MAX.

- If you set the DigiPure effect too high on a low-quality picture that contains a lot of noise, this may actually make the noise worse. We recommend you use the AUTO setting if you can.

### Picture motion compensation function:

This function displays fast-moving pictures (for example, the players or ball in a football game) more smoothly and naturally on the screen.

- The effect level of the picture motion compensation function cannot be changed. The effect level is the same no matter which of the AUTO, MIN or MAX settings is used.

### 1 Choose Super DigiPure

### 2 Press the ◀/▶ buttons to choose a setting. Then press the OK button

#### AUTO:

The TV will automatically adjust the level of the DigiPure effect to match the amount of noise in the picture, giving the best possible picture.

- AUTO cannot be chosen when you are watching the VIDEO-4 picture.

#### MIN:

The level of DigiPure effect is set to the minimum. When you set the Super DigiPure function to AUTO and notice some noise, change the setting from AUTO to MIN.

- The MIN setting is not suitable for high-quality pictures which contain very little noise.

#### MAX:

The level of DigiPure effect is set to the maximum. If you set the Super DigiPure function to AUTO but feel that the original picture quality has not been reproduced fully, change the setting from AUTO to MAX.

- The MAX setting is not suitable for low-quality pictures which contain a lot of noise.

#### OFF:

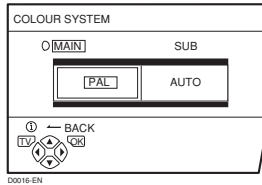
The Super DigiPure function is turned off.

## COLOUR SYSTEM

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

### 1 Choose COLOUR SYSTEM. Then press the OK button

The sub-menu of the COLOUR SYSTEM function appears.



### 2 Press the ◀/▶ buttons to choose MAIN or SUB

#### MAIN:

You can change the colour system of the main-picture.

#### SUB:

You can change the colour system of the sub-picture.

- Choose MAIN when a sub-picture is not displayed.

### 3 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button

#### AUTO:

This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or a VIDEO terminal.

Refer to the following table for the various international colour systems.

#### Colour system

Area	Country or region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	PAL
	China, Vietnam, etc	PAL
	Hong Kong, etc	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc	NTSC
Europe	Russia, etc	SECAM
	Czech Republic, Poland, etc	PAL
	Germany, Holland, Belgium, etc	PAL
	UK, etc	PAL
Oceania	Australia, New Zealand, etc	PAL
Africa	Republic of South Africa, etc	PAL
	Nigeria, etc	PAL
	Egypt, Morocco, etc	SECAM

- The AUTO function may not function properly if you have poor signal quality. If the picture is abnormal in the AUTO function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.

## PULL DOWN

The PULL DOWN function displays a cinema film picture more smoothly and naturally on the screen.

#### AUTO:

The television automatically recognizes the type of signal and turns the function on and off.

#### ON:

This function is turned on.

#### OFF:

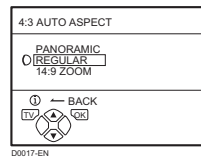
This function is turned off.

- The motion may appear unnatural when viewing images with the NTSC colour system. When the PULL DOWN function is set to AUTO or ON, the motion may appear unnatural when viewing images with the NTSC colour system.
- You cannot select this function in the twin pictures mode or the picture in picture mode.

## 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

### 1 Choose 4:3 AUTO ASPECT then press the OK button



### 2 Press the ▼/▲ buttons to choose a ZOOM mode. Then press the OK button

## COLOUR MANAGEMENT

This TV supports the COLOUR MANAGEMENT function to ensure dull colours are compensated to produce natural hues.

The COLOUR MANAGEMENT function is on by default.

#### ON:

COLOUR MANAGEMENT function is turned on.

#### OFF:

COLOUR MANAGEMENT function is turned off.

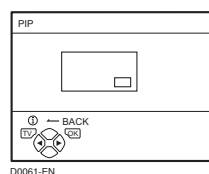
- Set this function to ON under normal conditions.

## PIP

You can choose one of four positions for the sub-picture.

### 1 Press the ▼/▲ buttons to choose PIP. Then press the OK button

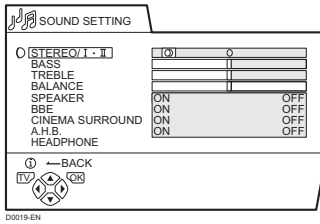
The PIP menu appears.



### 2 Press the ◀/▶ buttons to choose the position. Then press the OK button

# SOUND SETTING

Refer to “Using the TV’s menu” (see page 17) for details of displaying the menu.



## STEREO / I • II

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). When the stereo broadcasting is received poorly, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

∞ : Stereo sound

○ : mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the VIDEO modes. And this function does not appear in the SOUND SETTING menu.

## Sound Adjustment

You can adjust the sound to your liking.

### BASS:

You can adjust the low tone of the sound.

◀ : weaker

▶ : strong

### TREBLE:

You can adjust the high tone of the sound.

◀ : weaker

▶ : strong

### BALANCE:

You can adjust the volume balance between the left and right speaker.

◀ : turn the left speaker's volume level up.

▶ : turn the right speaker's volume level up.

## SPEAKER

You can turn off the sound from the TV speakers; but you should only do this if an audio system is connected to the TV as a substitute for the TV speakers.

### ON:

The TV speakers issue sound.

### OFF:

The TV speakers does not issue sound.

## BBE

You can use the BBE function to enjoy easy-to-listen sound that is faithful to the original sound recorded.

### ON:

This function is turned on.

### OFF:

This function is turned off.

- Licensed by BBE Sound, Inc. BBE is a registered trademark of BBE Sound, Inc.

## CINEMA SURROUND

You can enjoy Surround sound with a “live” effect by using the CINEMA SURROUND function.

### ON:

CINEMA SURROUND function is turned on.

### OFF:

CINEMA SURROUND function is turned off.

## A.H.B. (Active Hyper Bass)

Used when you want to emphasize the bass sound.

### ON:

This function is turned on.

### OFF:

This function is turned off.

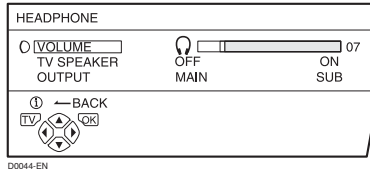
## HEADPHONE

You need to use the HEADPHONE menu to adjust the volume of the headphones.

The HEADPHONE menu can also be used to set whether or not sound comes from the TV speakers when the headphones are being used and to perform the settings for the sound coming from the headphones.

### 1 Press the ▼/▲ buttons to choose HEADPHONE. Then press the OK button

The sub-menu of the HEADPHONE function appears.



### 2 Press the ▼/▲ buttons to choose a function. Then press the ◀/▶ buttons to change the setting

#### VOLUME:

You can change the volume of the headphones.

#### TV SPEAKER:

You can turn the TV's speakers on or off.

#### ON:

The sound comes from the TV's speakers when using the headphones.

#### OFF:

The sound does not come from the TV's speakers when using the headphones.

#### OUTPUT:

You can choose the sound output to the headphones.

#### MAIN:

You can listen to the sound of the main-picture with your headphones.

#### SUB:

You can listen to the sound of the sub-picture with your headphones.

- When the sub-picture is a television programme, the sound becomes monaural.

### 3 Press the OK button

#### Hint:

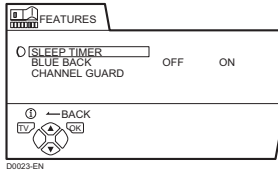
When a sub-picture is displayed, the sound of the sub-picture can be listened to with the headphones while listening to the sound of the main-picture with the TV speakers. To do this, set TV SPEAKER to ON and OUTPUT to SUB.

- Headphones do not work with sound adjusted for BASS and TREBLE, BBE effect sound, A.H.B. effect sound, and CINEMA SURROUND effect sound.



# FEATURES

Refer to “Using the TV’s menu” (see page 17) for details of displaying the menu.

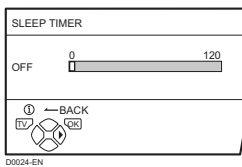


## SLEEP TIMER

You can set the TV to automatically turn off after a specified period of time.

### 1 Choose SLEEP TIMER, then press the OK button

A Sub-menu of the SLEEP TIMER function appears.



### 2 Press the ◀/▶ buttons to set the period of time. Then press the OK button

You can set the period of time a maximum of 120 minutes (2 hours) in 10 minute increments.

- One minute before the SLEEP TIMER function turns off the TV, “GOOD NIGHT!” appears.
- The SLEEP TIMER function cannot be used to turn off the TV’s main power.
- When the SLEEP TIMER function is on, you can display the Sub-menu of the SLEEP TIMER function again to confirm and/or change the remaining period of time of the SLEEP TIMER function. Press the OK button to exit the menu after confirming and / or changing the remaining time.

#### To cancel the SLEEP TIMER function:

Press the ◀ button to set a period of time to “OFF”.

## BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.


#### ON:

This function is turned on.

#### OFF:

This function is turned off.

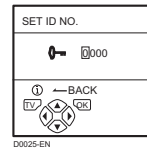
## CHANNEL GUARD

When there is a TV channel you wish your children not to watch, you can use the CHANNEL GUARD function to lock out the TV channel. Even when a child chooses a Programme number (PR) in which a locked TV channel has been registered, the screen will change to blue and displays  (CHANNEL GUARD) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel programmes.

## ■ To set the CHANNEL GUARD function

### 1 Choose CHANNEL GUARD, then press the 0 (AV) button

“SET ID NO.” (ID number setting screen) appears.

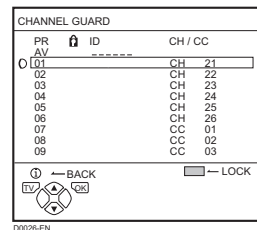


### 2 Set the ID number to your liking

- 1 Press the ▼/▲ buttons to choose a number.
- 2 Press the ◀/▶ buttons to move the cursor.

### 3 Press the OK button


The Sub-menu of CHANNEL GUARD appears.



### 4 Press the ▼/▲ buttons to choose a TV channel


Every time you press the ▼/▲ buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

### 5 Press the blue button and set the CHANNEL GUARD function. Then press the OK button

 (CHANNEL GUARD) appears and the TV channel is locked.

#### To reset the CHANNEL GUARD function:


Press the blue button again.

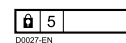
 (CHANNEL GUARD) disappears.

To disable easy resetting of the CHANNEL GUARD function, the menu disappears by choosing the CHANNEL GUARD function and pressing the OK button as in the ordinary menu operation.

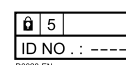
## ■ To view a locked TV channel

### 1 Choose a Programme number (PR) in which a TV channel locked with the Number buttons or PR LIST

The screen changes to blue and the  (CHANNEL GUARD) appears. You cannot view the TV channel.



### 2 Press the ⓘ (Information) button to display “ID NO.” (ID NO. input screen)



---

**3 Press the Number buttons to enter the ID number**

The lock is temporarily released so you can view the TV channel.

**If you have forgotten the ID number:**

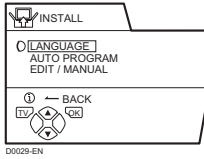
Perform step 1 of “To set the CHANNEL GUARD function”. After confirming the ID number, press the **TV** button to exit the menu.

---

- Even if you reset the lock temporarily, it does not mean that the CHANNEL GUARD function set for the TV channel is cancelled. The next time anyone attempts to view the TV channel, it will be locked again.
  - When you would like to cancel the CHANNEL GUARD function, you must perform the operation “To set the CHANNEL GUARD function” again.
  - To disable easy choosing of a Programme number (PR) in which a locked TV channel has been registered, the Programme number (PR) has been set that it cannot be chosen by the ▼/▲ buttons or the operation buttons at the TV.
  - To disable easy resetting of the lock, “ID NO.” (ID NO. input screen) is set so that it cannot appear unless you press the ⓘ (Information) button.
-

# INSTALL

Refer to “Using the TV’s menu” (see page 17) for details of displaying the menu.



## LANGUAGE

You can choose the language you want to use for the on-screen display from the language list in a menu.

### 1 Choose LANGUAGE, then press the OK button

A sub-menu of the LANGUAGE function appears.



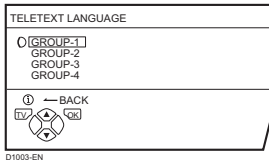
### 2 Press the ◀/▶ and ▼/▲ buttons to choose a language. Then press the OK button

## AUTO PROGRAM

You can automatically register the TV channels which can be received well at your residence in the TV’s Programme numbers (PR) by performing the following.

### 1 Choose AUTO PROGRAM. Then press the OK button

The TELETEXT LANGUAGE menu appears as a sub-menu of the AUTO PROGRAM function.



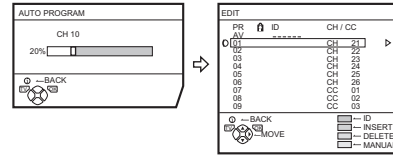
### 2 Press the ▼/▲ buttons to choose the teletext language group that corresponds to the language of teletext programme that you want to watch

Group	Languages
GROUP-1	Turkish, Hungarian, English, German, French, Italian, Spanish, Portuguese, Greek, Swedish, Finnish
GROUP-2	Polish, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian, Hungarian, German, French, Italian, Swedish, Finnish
GROUP-3	Russian, Bulgarian, Lettish, Lithuanian, Estonian, Ukrainian, Serbian, Croatian, Slovenian, Czech, Slovak, English, German
GROUP-4	Arabic, Czech, Slovak, Hungarian, English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish

### 3 Press the OK button to start the AUTO PROGRAM function

The AUTO PROGRAM menu appears and received TV channels are automatically registered in the Programme numbers (PR).

- To cancel the AUTO PROGRAM function, press the TV button.



After the TV channels have been registered in the Programme numbers (PR), the EDIT menu appears.

- You can proceed to edit the Programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 25.
- If you do not need to use the EDIT/MANUAL function, go to the next step.

### 4 Press the OK button

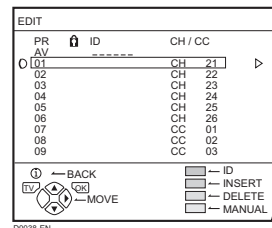
## EDIT/MANUAL

The EDIT/MANUAL functions are divided into two types: editing of the current Programme numbers (PR) (EDIT functions) and manual registration of a TV channel you want to view to the Programme number (PR) (MANUAL function). The details about these functions are as follows:

### Caution

- Using the MOVE, DELETE or INSERT function rewrites the current Programme numbers (PR) list. Resultingly, the Programme number (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHANNEL GUARD function has been set cancels the CHANNEL GUARD function for the TV channel.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes the TV channel.

### 1 Choose EDIT/MANUAL, then press the OK button



- For Programme number PR 0, “AV” appears in the Programme numbers (PR) list.
- A VIDEO terminal number does not appear in the Programme numbers (PR) list.
- The CH/CC number is a number unique to the TV and corresponding to the Channel number of a TV channel. For the relationship of a Channel number and a CH/CC number, see “CH/CC numbers” on page 31.

**2 Follow the operation description of a function you want to use and operate the function**

**MOVE:**

This function changes a Programme number (PR) of a TV channel.

**ID:**

This function registers a Channel name (ID) to a TV channel.

**INSERT:**

This function adds a new TV channel in the current Programme numbers (PR) list by using the CH/CC number.

- You cannot use the INSERT function if you do not know a Channel number of a TV channel. Use the MANUAL function to register a TV channel in the Programme number (PR).

**DELETE:**

This function deletes an unnecessary TV channel.

**MANUAL:**

This function manually registers a new TV channel in a Programme number (PR).

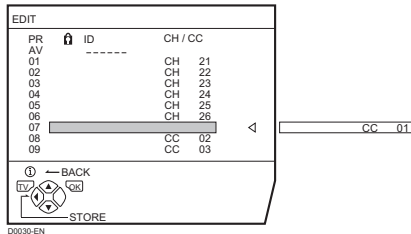
**3 Press the OK button**

■ **MOVE**

**1 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

**2 Press the ► button to start the MOVE function**



**3 Press the ▼/▲ buttons to choose a new Programme number (PR)**

**To cancel the MOVE function:**  
Press the (i) (Information) button.

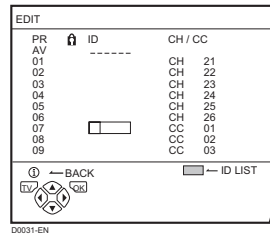
**4 Press the ◀ button to change the Programme number (PR) of a TV channel to a new Programme number (PR)**

■ **ID**

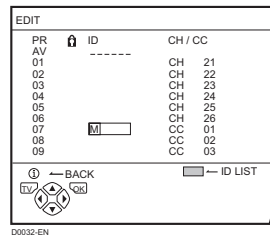
**1 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

**2 Press the red button to start the ID function**



**3 Enter a channel name (ID). Press the ▼/▲ buttons to choose a character. Press the ◀/▶ buttons to move the cursor.**



**To cancel the ID function:**  
Press the (i) (Information) button.

**4 Press the OK button to register a Channel name (ID) to a TV channel**

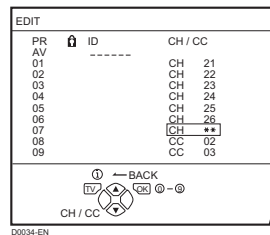
■ **INSERT**

**Preparation:**

- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table "CH/CC numbers" on page 31 based on the Channel number of the TV channel.

**1 Press the ▼/▲ buttons to choose a Programme number (PR) for which you will register a new TV channel**

**2 Press the green button and start the INSERT function**



**3 Press the ▼/▲ buttons to choose "CC" or "CH" according to the CH/CC number of the TV channel**

**To cancel the INSERT function:**  
Press the (i) (Information) button.

**4 Press the Number buttons to enter the remaining CH/CC number**

The TV shifts to registration mode. When the registration is completed, the picture of the TV channel appears on the screen.

- The CH/CC number is a number indicating the broadcast frequency to the TV. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH/CC number, a picture in the no-signal state appears.

**■ DELETE**

**1 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

**2 Press the yellow button to delete the TV channel**

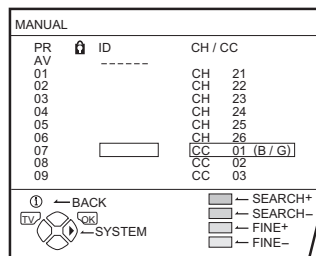
The TV channel is deleted from the Programme numbers (PR) list.

**■ MANUAL**

**1 Press the ▼/▲ buttons to choose a Programme number (PR) to which you want to register a new TV channel**

**2 Press the blue button to activate the MANUAL function**

At the right side following the CH/CC number, the SYSTEM (broadcasting system) of the TV channel appears.



D0035-EN

**To cancel the MANUAL function:**  
Press the ⓘ (Information) button.

**3 Press the ► button to choose the SYSTEM (sound system) for a TV channel you want to register**

Refer to the following table for the various international sound systems.

**Sound system**

Area	Country or region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	B/G
	China, Vietnam, etc.	D/K
	Hong Kong, etc.	I
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	B/G
	Philippines, Taiwan, Myanmar, etc	M
Europe	Russia, etc.	D/K
	Czech Republic, Poland, etc.	D/K
	Germany, Holland, Belgium, etc.	B/G
	UK, etc.	I
Oceania	Australia, New Zealand, etc.	B/G
Africa	Republic of South Africa, etc.	I
	Nigeria, etc.	B/G
	Egypt, Morocco, etc.	B/G

**4 Press the green or red button to search for a TV channel**

Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

**5 Press the green or red button repeatedly until the TV channel you want appears**

**If the TV channel reception is poor:**

Press the blue or yellow button to fine-tune the TV channel.

**If you cannot hear the normal sound even when the picture of the TV channel appears normally:**

The SYSTEM setting is wrong. Press the ► button and choose a SYSTEM that has normal sound.

**6 Press the OK button and register the TV channel to a Programme number (PR)**

The normal EDIT menu is resumed.

## Changing the TELETEXT LANGUAGE setting

After the AUTO PROGRAM function is completed, you can change the country you have already set by using the AUTO PROGRAM function.

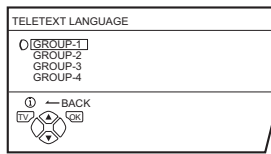
### 1 Display the INSTALL menu

**When the EDIT menu is currently being displayed:**

Press the **i** (Information) to return to the INSTALL menu.

### 2 Press the ▼/▲ buttons to choose AUTO PROGRAM. Then press the OK button

A TELETEXT LANGUAGE menu appears as a sub-menu of the AUTO PROGRAM function.



D1003-EN

Group	Languages
GROUP-1	Turkish, Hungarian, English, German, French, Italian, Spanish, Portuguese, Greek, Swedish, Finnish
GROUP-2	Polish, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian, Hungarian, German, French, Italian, Swedish, Finnish
GROUP-3	Russian, Bulgarian, Lettish, Lithuanian, Estonian, Ukrainian, Serbian, Croatian, Slovenian, Czech, Slovak, English, German
GROUP-4	Arabic, Czech, Slovak, Hungarian, English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish

### 3 Press the ▼/▲ buttons to choose a group

### 4 Press the TV button to complete the setting

The menu disappears.

# Additional preparation

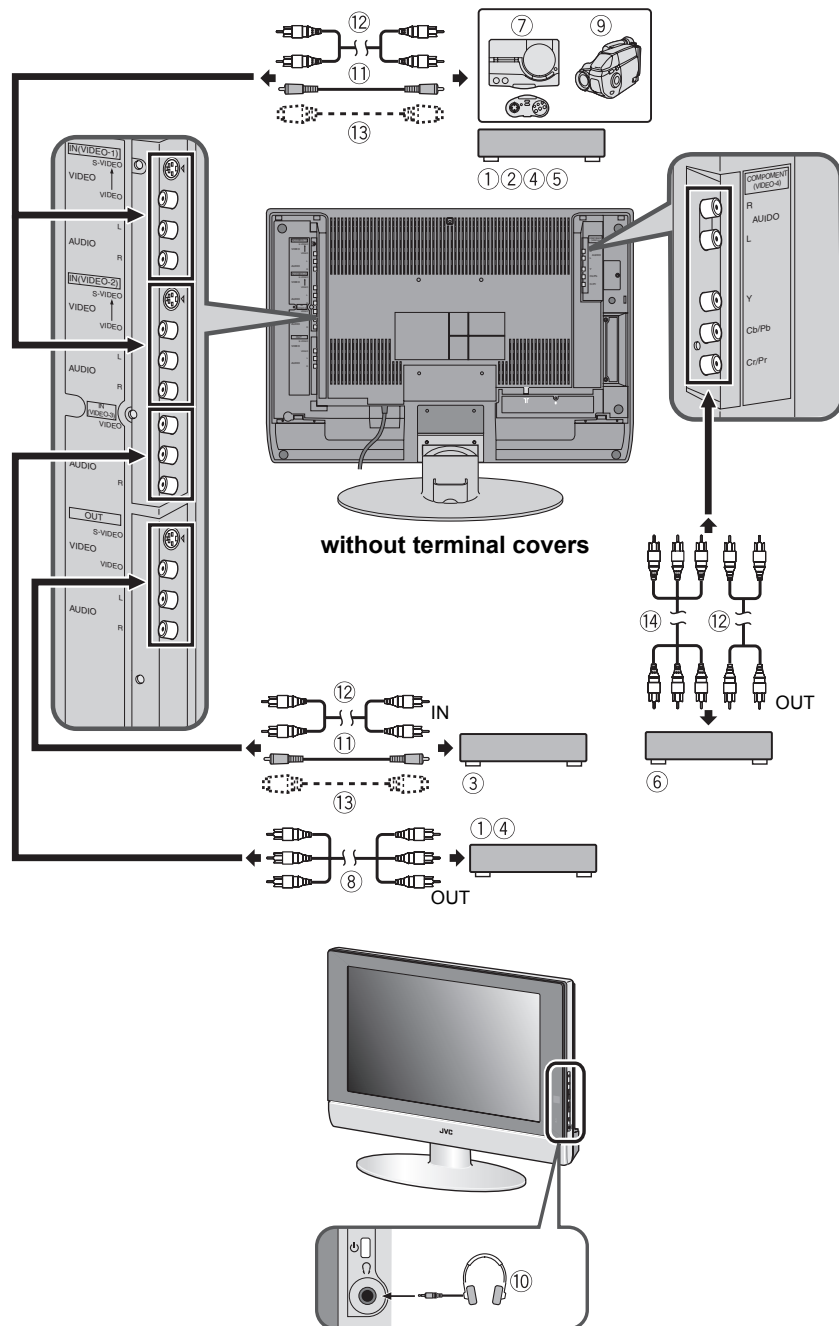
## Connecting the external devices

Connect the devices to the TV, paying attention to the following connection diagram.

### Before connecting anything:

- Read the manuals provided with the devices. Depending on the devices, the connection method may differ from the figure. In addition, the device settings may be changed depending on the connection method to secure proper operation.
- Turn off all the devices including the TV.
- The “Specifications” on page 34 contains the details of the VIDEO terminals. If you are connecting a device not listed in the following connection diagram, see the table to choose the best VIDEO terminal.
- Note that connecting cables are not supplied.

- ① VCR (composite signal)
- ② VCR (S-VIDEO signal; Y/C)
- ③ VCR for recording (composite signal)
- ④ DVD player (composite signal)
- ⑤ DVD player (S-VIDEO signal; Y/C)
- ⑥ DVD player (component video signals; Pr/Pb/Y)
- ⑦ TV game (composite signal/S-VIDEO signal; Y/C)
- ⑧ Audio/Video cable
- ⑨ Camcorder (composite signal/S-VIDEO signal; Y/C)
- ⑩ Headphones
- ⑪ Video cable
- ⑫ Audio cable
- ⑬ S-VIDEO cable
- ⑭ Component cable



■ **Connecting devices to the OUT terminal**

The signals of the images and sound you are currently viewing with this TV are output through the OUT terminal. By connecting a VCR to the OUT terminal, you can record the currently shown image and sound to that VCR. To do this, connect the VCR and OUT terminal following the steps below.

**1 Connect the VIDEO or S-VIDEO in the OUT terminals and the VCR's VIDEO IN (video input) terminal with a video cable or an S-VIDEO cable**

- No signal will output through the S-VIDEO terminal when you are not viewing images coming from the S-VIDEO input. In this case, use the VIDEO terminal instead of the S-VIDEO terminal.

**2 Connect the AUDIO (L and R) in the OUT terminals and the VCR's AUDIO IN (audio L/R input) terminals with an audio cable**

- When you turn off the TV, the signals from the OUT terminal are also turned off.
- No signal is output when VIDEO-4 is chosen.

■ **Connecting headphones**

Connect the headphones with a stereo mini-jack (of 3.5 mm in diameter) to the headphone jack at the TV.

- The headphone volume is adjusted with the "HEADPHONE" menu (see page 22).

■ **Connecting Speakers/Amplifier**

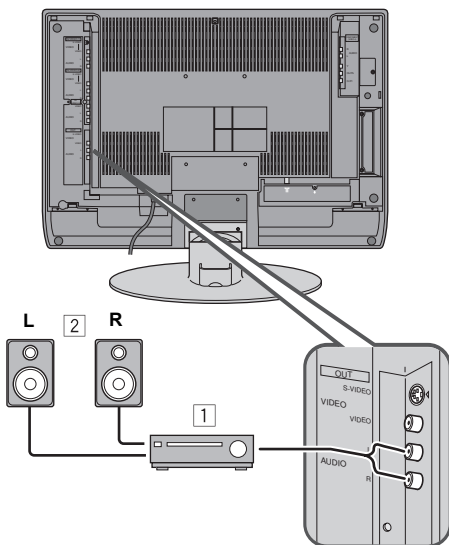
See the Audio equipment connection diagram, then connect the audio equipment you desire to the TV.

You can use external front speakers to listen to the TV sound instead of the TV speakers.

**Before connecting anything:**

- Read the manuals provided with the amplifier and speakers.
- Turn the TV and amplifier off.
- To prevent magnetism from the speakers adversely affecting the TV screen, use magnetically-shielded speakers for the front speakers.
- Note that connecting cables are not supplied.

without terminal covers



- 1 Amplifier
- 2 External speakers (Magnetic-shielded type)

- The output from the AUDIO OUT terminal is not interrupted by headphone connection to the TV. You cannot cut the sound from the front speaker even if you connect a headphone to the TV.
- Adjust the volume of the external speakers with the amplifier.



# CH/CC numbers

When you want to use the INSERT function on page 26, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

- US: The US channel numbers are the channel numbers used in the United States, Philippines, etc.  
 CCIR: The CCIR channel numbers are the channel numbers used in the Middle East, Southeast Asia, etc.  
 OIRT: The OIRT channel numbers are the channel numbers used in Eastern Europe, Russia, Vietnam, etc.  
 AUSTRALIA: The AUSTRALIA channel numbers are the channel numbers used in Australia, etc.

CH	Channel			
	US	CCIR	OIRT	AUSTRALIA
CH02	US-2	E2	R1	AU-0
CH03	US-3	E3		AU-1
CH04	US-4	E4	R2	AU-2
CH05	US-5	E5	R6	AU-6
CH06	US-6	E6	R7	AU-7
CH07	US-7	E7	R8	AU-8
CH08	US-8	E8	R9	AU-9
CH09	US-9	E9		
CH10	US-10	E10	R10	AU-10
CH11	US-11	E11	R11	AU-11
CH12	US-12	E12	R12	
CH13	US-13			
CH14	US-14, W+29			
CH15	US-15, W+30			
CH16	US-16, W+31			
CH17	US-17, W+32			
CH18	US-18, W+33			
CH19	US-19, W+34			
CH20	US-20, W+35			
CH21	US-21, W+36	E21		
CH22	US-22, W+37	E22		
CH23	US-23, W+38	E23		
CH24	US-24, W+39	E24		
CH25	US-25, W+40	E25		
CH26	US-26, W+41	E26		
CH27	US-27, W+42	E27		
CH28	US-28, W+43	E28		
CH29	US-29, W+44	E29		
CH30	US-30, W+45	E30		
CH31	US-31, W+46	E31		
CH32	US-32, W+47	E32		
CH33	US-33, W+48	E33		
CH34	US-34, W+49	E34		
CH35	US-35, W+50	E35		
CH36	US-36, W+51	E36		
CH37	US-37, W+52	E37		
CH38	US-38, W+53	E38		
CH39	US-39, W+54	E39		
CH40	US-40, W+55	E40		
CH41	US-41, W+56	E41		
CH42	US-42, W+57	E42		
CH43	US-43, W+58	E43		
CH44	US-44, W+59	E44		
CH45	US-45, W+60	E45		
CH46	US-46, W+61	E46		
CH47	US-47, W+62	E47		
CH48	US-48, W+63	E48		
CH49	US-49, W+64	E49		
CH50	US-50, W+65	E50		
CH51	US-51, W+66	E51		
CH52	US-52, W+67	E52		
CH53	US-53, W+68	E53		
CH54	US-54, W+69	E54		
CH55	US-55, W+70	E55		
CH56	US-56, W+71	E56		
CH57	US-57, W+72	E57		
CH58	US-58, W+73	E58		
CH59	US-59, W+74	E59		
CH60	US-60, W+75	E60		
CH61	US-61, W+76	E61		
CH62	US-62, W+77	E62		
CH63	US-63, W+78	E63		
CH64	US-64, W+79	E64		
CH65	US-65, W+80	E65		
CH66	US-66, W+81	E66		
CH67	US-67, W+82	E67		
CH68	US-68, W+83	E68		
CH69	US-69, W+84	E69		

CC	Channel			
	US	CCIR	OIRT	AUSTRALIA
CC01		S-1		AU-5
CC02		S-2		
CC03		S-3		
CC04		S-4		
CC05		S-5		
CC06		S-6		AU-5A
CC07		S-7		
CC08		S-8		
CC09		S-9		
CC10		S-10		
CC11		S-11		
CC12		S-12		
CC13		S-13		
CC14	A	S-14		
CC15	B	S-15		
CC16	C	S-16		
CC17	D	S-17		
CC18	E	S-18		
CC19	F	S-19		
CC20	G	S-20		
CC21	H	S-21		
CC22	I	S-22		
CC23	J	S-23		
CC24	K	S-24		
CC25	L	S-25		
CC26	M	S-26		
CC27	N	S-27		
CC28	O	S-28		
CC29	P	S-29		
CC30	Q	S-30		
CC31	R	S-31		
CC32	S	S-32		
CC33	T	S-33		
CC34	U	S-34		
CC35	V	S-35		
CC36	W	S-36		
CC37	W+1	S-37		
CC38	W+2	S-38		
CC39	W+3	S-39		
CC40	W+4	S-40		
CC41	W+5	S-41		
CC42	W+6			
CC43	W+7			
CC44	W+8			
CC45	W+9			
CC46	W+10			
CC47	W+11			
CC48	W+12			
CC49	W+13			
CC50	W+14			
CC51	W+15			
CC52	W+16			
CC53	W+17			
CC54	W+18			
CC55	W+19			
CC56	W+20			
CC57	W+21			
CC58	W+22			
CC59	W+23			
CC60	W+24			
CC61	W+25			
CC62	W+26			
CC63	W+27			
CC64	W+28			
CC75		X		
CC76		Y	R3	
CC77		Z	R4	AU-3
CC78		Z+1	R5	
CC79		Z+2		AU-4
CC95	A-5			
CC96	A-4			
CC97	A-3			
CC98	A-2			
CC99	A-1			

# Troubleshooting

If a problem arises while you are using the TV, please read this “Troubleshooting” well before you request having the TV repaired. You may be able to fix it easily by yourself. For example, if the AC plug is disconnected from the AC outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

## Important:

- This Troubleshooting guide only covers problems whose cause are not easy to determine. If a question arise when you are operating a function, read the page(s) corresponding to the operation of the function well, not this Troubleshooting guide.
- After you have followed the Troubleshooting description or the operating description of the functions concerned without any success, remove the AC plug from the AC outlet and request a repair of your TV. Do not attempt to repair the TV by yourself or remove the rear cover of the TV.

## ■ If you cannot turn on the TV

- Is the AC plug on the power cord from the TV connected to an AC outlet?
- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ If you cannot turn off the TV

- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ No picture/No sound

- Have you chosen a TV channel whose reception is extremely bad? In this case, the BLUE BACK function will be activated, the entire screen becomes blue, and the sound is muted. In spite of this, if you want to view the TV channel, follow the description “BLUE BACK” on page 23 to try to change the BLUE BACK function setting to OFF.
- Have you set the SPEAKER function to OFF? Follow the description “SPEAKER” on page 21 to confirm the SPEAKER function setting to try to solve the problem.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL” on page 25 to use the MANUAL function to try to change the SYSTEM setting.

## ■ Poor picture

- If noise totally obscures the picture (snow), the aerial or aerial cable may have trouble. Check the following to try to solve the trouble:
  - Has the TV and aerial been connected properly?
  - Has the aerial cable been damaged?
  - Is the aerial pointed to the right direction?
  - Is the aerial itself faulty?
- If the TV or aerial receives interference from the other devices, stripes or noise may appear in the picture. Move such devices as an amplifier, personal computer, or a hair drier that can cause interference away from your TV, or try changing its location. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV receives interference from signal reflecting from mountains or building, double-pictures (ghosting) will occur. Try to change the aerial’s direction or replace the antenna with the one with better directionality.
- Are your COLOUR SYSTEM settings for the TV channels correct? Follow the description “COLOUR SYSTEM” on page 20 to try to solve the trouble.
- Has COLOUR or BRIGHT been controlled properly? Follow the description “Picture Adjustment” on page 18 to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.

- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal, and not because of malfunction.




## ■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description “Sound Adjustment” on page 21 to try to adjust them properly.
- When the TV channel reception is poor, it can be hard to hear the stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 21 to hear the sound more easily by changing it to a mono sound.

## ■ Operation disabled

- Have the batteries of the remote control become exhausted? Follow the description “Putting the batteries into the Remote control” on page 5 and replace them with new batteries to try to solve the problem.
- Have you attempted to use the remote control at the sides or rear of the TV or at a location more than seven meters apart from the TV location? Operate the remote control in the front of your TV or a location less than seven meters from your TV to try to solve the problem.
- When you are viewing a teletext programme, you cannot operate the menus. Press the **TV** button to return the teletext programme to the ordinary TV programme to try operating the menus.
- If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect them to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure.

## ■ Other concerns

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV is turned off suddenly, try to press the  (Standby) button to turn on the TV once again. At this time, if the TV resumes a normal state, there is no problem.
- When a WSS signal is included in the broadcast signal or the signal from an external device, or when the TV is receiving a control signal from an external device, the ZOOM mode will change automatically. When you want to return to the previous ZOOM mode, press the **ZOOM** button to choose the ZOOM mode again.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a malfunction. This is the time required for the image to stabilize before it can be displayed.
- The TV may emit a crackling sound due to a sudden change in temperature. It does not matter if a picture or sound does not show any abnormality. If you hear crackling sounds frequently while you are viewing the TV, other causes may be assumed. For precautionary purposes, request your service technician to inspect it.
- In the twin pictures mode the sub-picture may disappear when the external device is operated. If this happens, press the  button and display the sub-picture again.
- The headphone volume is adjusted with the “HEADPHONE” menu. It cannot be adjusted with the  (volume)  $-/+$  buttons.
- When TV SPEAKER in the “HEADPHONE” menu is ON, even if the headphones are connected, sound is emitted from the TV speaker. When you do not want to emit sound from the TV speaker, turn the setting OFF.
- The top of the TV and the screen may become hot during use but this has no effect on the performance of the TV. Make sure that the ventilation holes are not blocked.
- When the picture is unstable, the screen may become white for a moment. This happens when the signal which drives the liquid crystal is missing. This is not a fault.
- When a still image has been displayed for a long period, a faint residual image may remain on the screen for a short time after the power has been turned off or when another image is displayed. This is not a fault and the image will eventually disappear.

# Specifications

Item	Model	LT-Z32S2	LT-Z26S2
Broadcasting systems		B, G, I, D, K, K1, M	
Colour systems		PAL, SECAM, NTSC 3.58/4.43 MHz	
Channels and frequencies		VHF low channel (VL) =46.25 to 168.25 MHz VHF high channel (VH) =175.25 to 463.25 MHz UHF channel (U) =471.25 to 855.25 MHz • Receives cable channels in mid band (X to Z+2, S1 to S10), super band (S11 to S20) and hyper band (S21 to S41).	
Sound-multiplex systems		A2 (B/G, D/K), NICAM (B/G, I, D/K) system	
Teletext systems		FLOF (Fastext), TOP, WST (World Standard System)	
Languages displayed by teletext		Please see the table in the description "Changing the TELETEXT LANGUAGE setting" on page 28.	
Power requirements		AC 110 to 240 V, 50/60 Hz	
Power consumption		177 W, Standby: 2.3 W	148 W, Standby: 2.8 W
Screen size		Viewable area 80.2 cm (measured diagonally)	Viewable area 66 cm (measured diagonally)
Display resolution		1280 × 768 (W-XGA)	
Audio output		Rated Power output: 10 W + 10 W	
Speakers		6.6 cm round × 2	
VIDEO-1 terminal		RCA connectors × 3, S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.	
VIDEO-2 terminal		RCA connectors × 3, S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.	
VIDEO-3 terminal		RCA connectors × 3 • Video input and Audio L/R inputs are available.	
VIDEO-4 terminal		RCA connectors × 5 • Component video (Pr, Pb, Y) inputs (625p, 525p, 1125i) and Audio L/R inputs are available. • 525p and 625p are progressive scanning signals. Some DVD players can output these signals. • 1125i is one of the new high-definition signals.	
OUT terminal		RCA connectors × 3, S-VIDEO connector × 1 • Video output, S-VIDEO (Y/C) output and Audio L/R outputs are available.	
Headphone jack		Stereo mini-jack (3.5 mm in diameter)	
Dimensions (W × H × D)		833 mm × 638 mm × 260 mm 833 mm × 569 mm × 97 mm (TV only)	703 mm × 560 mm × 260 mm 703 mm × 491 mm × 94 mm (TV only)
Weight		22 kg 19.2 kg (TV only)	19.0 kg 18.3 kg (TV only)
Accessories		Remote control unit × 1 (RM-C1808) AA/R6 dry cell battery × 2	

**Design and specifications subject to change without notice.**

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.







