



JVC

ENGLISH 
DEUTSCH 
FRANÇAIS 
NEDERLANDS 
CASTELLANO 
ITALIANO 
PORTUGUÊS 

AV32Z10EU

COLOUR TELEVISION

INSTRUCTIONS

FARBFERNSEHGERÄT
TELEVISEUR COULEUR
KLEURENTELEVISIE
TELEVISOR A COLOR
TELEVISORE A COLORI
TELEVISOR A CORES

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI
INSTRUÇÕES

InteriArt

Natural Vision

T-V LINK



Thank you for buying this JVC colour television.

To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

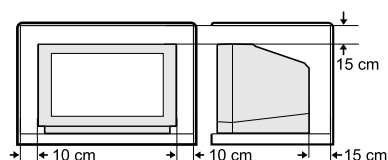
WARNING:

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

CAUTION:

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable. When installing this television, distance recommendations must be maintained between the floor and wall, as well as installation in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe operation.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.
6. 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.
7. The main power button on the TV does not fully isolate the TV from the AC supply. If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.



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PREPARATION

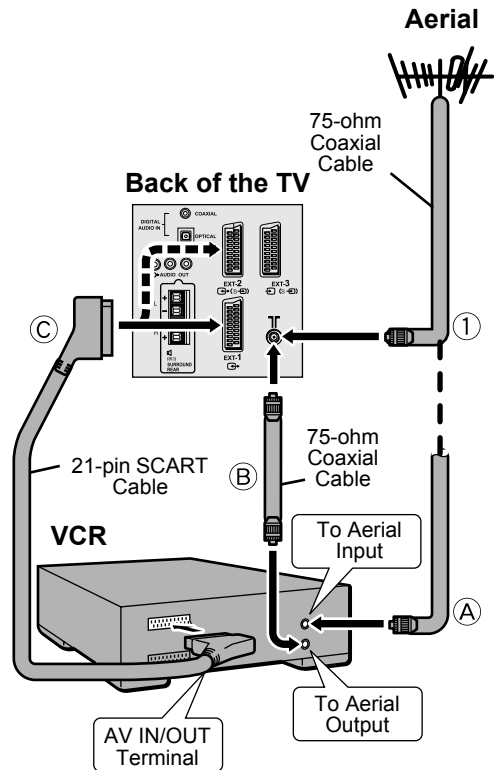
■ Connecting the Aerial and VCR

If connecting a VCR, follow (A) → (B) → (C).
If not connecting a VCR, follow ①.

To operate T-V LINK functions, a T-V LINK compatible VCR must be connected to the EXT-2 terminal on the TV. For details about T-V LINK functions, see "T-V LINK FUNCTIONS" on page 5.

Note:

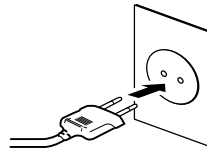
- For further details, refer to the manuals provided with the devices to be connected.
- The connecting cables are not provided.
- A video can be viewed from the VCR without performing (C). For details, refer to your VCR instruction manual.
- To connect additional external devices, see "Connecting the external devices" on page 35.
- To connect additional audio equipments, see "Using additional audio equipments" on page 37.
- To connect a device (such as DVD player) with the digital output terminal for Dolby Digital, see "Listening to Dolby Digital audio" on page 36.
- When a decoder is connected to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see "Using the DECODER (EXT-2) function" on page 34. Otherwise, you will not be able to view scrambled channels.



■ Connecting the power cord to the AC outlet

Caution:

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.



■ Putting Batteries into the Remote Control

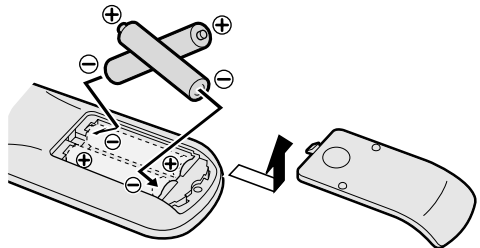
Use two AAA/R03 dry cell batteries.

Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.

To open the battery compartment, slide the door downwards and lift off. Replace the door by sliding it upwards until it is secure.

Note:

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



■ 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 Press the Main power button on the TV.

The Power lamp lights red (for power on), then green (for TV on) and the JVC logo is displayed.



D0001-EN

Note:

- If the power lamp stays red and does not change to green:
Your TV is in the standby mode. Press the (Standby) button on the remote control to turn your TV on.
- 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 27.

2 Press the OK button.

The LANGUAGE menu appears.

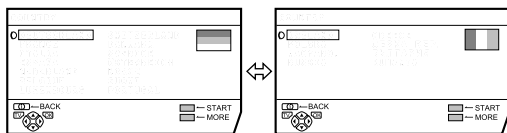


D0002(E)-EN

3 Press the /▶ and ▼/▲ buttons to choose ENGLISH. Then press the OK button.

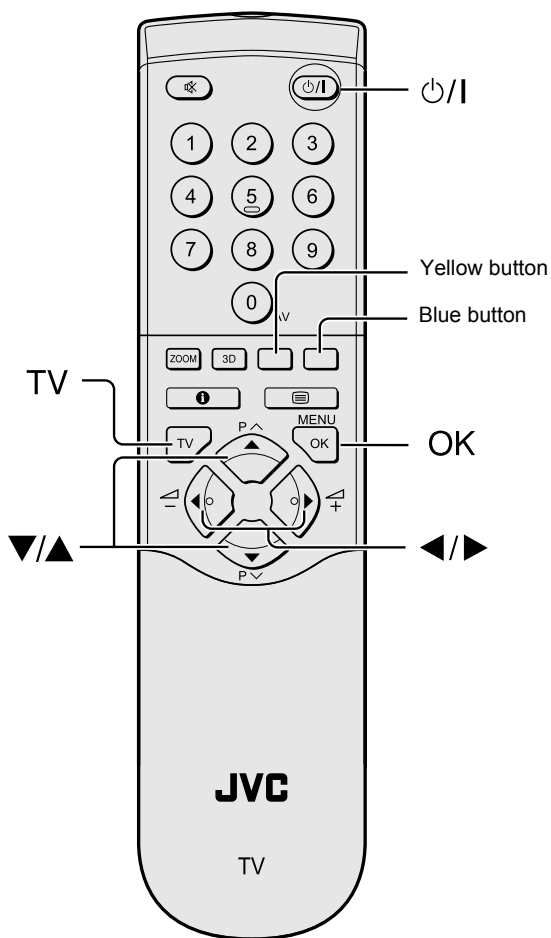
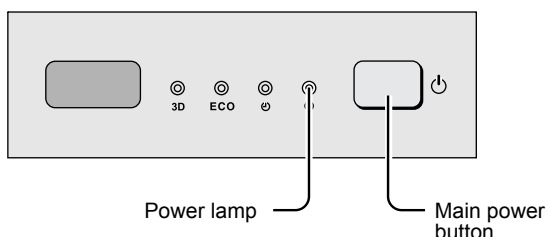
English is set for the on-screen display description. The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function.

There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:



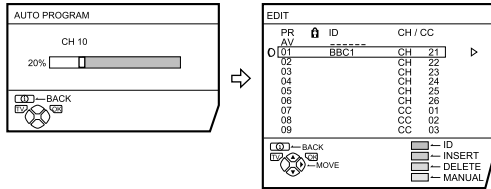
D0003-EN

4 Press the /▶ and ▼/▲ buttons to choose the country where you are now located.



5 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).



D0004-EN

If “ACI START/ACI SKIP” appears in the AUTO PROGRAM menu:

You can use the ACI (Automatic Channel Installation) function to decode the ACI data and complete the registration of all the TV channels in a short period of time. For details of the ACI function and how to use it, refer to “Using the ACI function” on page 33.

If you don't want to use the ACI function, press the **▼/▲** button to choose ACI SKIP and then press **OK**.

To cancel the AUTO PROGRAM function:

Press the **TV** button.

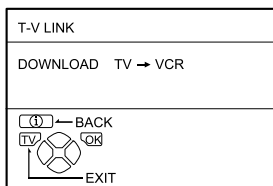
6 After the TV channels have been registered in the Programme numbers (PR), the EDIT menu appears.

You can proceed to edit the Programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 28.

When not using the EDIT/MANUAL function:

If you do not need to use the EDIT/MANUAL function, go to the next step.

7 Press the OK button to display the T-V LINK menu.



D0005-EN

8 Operate the T-V LINK menu according to the type of a VCR connected to the EXT-2 terminal.

When a T-V LINK compatible VCR is not connected:

Press the **TV** button to exit the T-V LINK menu. The T-V LINK menu disappears.

When a T-V LINK compatible VCR is connected:

Follow the operating procedure “Downloading the data to VCR” on page 33 to transmit the Programme number (PR) data.

9 Now, the initial settings are complete, and you can watch the TV.

Note:

- When your TV can detect the TV channel name from the TV channel broadcast signal, it automatically registers the TV channel name (ID) to the Programme number (PR) in which the TV channel has been registered.
- If a TV channel you want to view is not set to a Programme number (PR), manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 28.
- The TV channel is not registered in Programme number PR 0 (AV). When you want to register a TV channel to PR 0 (AV), manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 28.

T-V LINK FUNCTIONS

When a T-V LINK compatible VCR is connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

To use T-V LINK functions:

A T-V LINK compatible VCR is necessary.

The VCR must be connected to the EXT-2 terminal on the TV by a fully wired SCART cable.

Note:

- A "T-V LINK compatible VCR" means a JVC VCR with the T-V LINK logo or a VCR with one of the following logos. However, these VCRs may support some or all of the features described below. For details, refer to your VCR instruction manual.
 - "Q-LINK" (a trademark of Panasonic Corporation)
 - "Data Logic" (a trademark of Metz Corporation)
 - "Easy Link" (a trademark of Phillips Corporation)
 - "Megalogic" (a trademark of Grundig Corporation)
 - "SMARTLINK" (a trademark of Sony Corporation)

■ Pre-set Download

Download the registered data on the TV channels from the TV to the VCR.

The Preset Download function automatically begins when the initial setting is complete or whenever the AUTO PROGRAM or EDIT/MANUAL operations are performed.

Note:

- This function can be operated via VCR operation.

When "FEATURE NOT AVAILABLE" is displayed:

If "FEATURE NOT AVAILABLE" is displayed, the download was not performed correctly. Before trying to download again, ensure the following:

- The VCR power is turned on.
- The VCR is T-V LINK compatible.
- The VCR is connected to the EXT-2 terminal.
- The SCART cable is fully wired.

■ Direct Rec

"What You See Is What You Record"

You can record to VCR the images that you are currently viewing on TV by a simple operation.

For details, read the manual for your VCR.

Operate via the VCR. "VCR IS RECORDING" is displayed.

In the following conditions, the VCR will stop recording if the TV is turned off, if the TV channel or input is switched, or if the menu is displayed on the TV:

- When recording images from an external device connected to the TV.
- When recording a TV channel after it has been unscrambled on a decoder.
- When recording a TV channel by using the TV's output because that TV channel cannot be properly received on the VCR's tuner.

Note:

- Operation via the TV is not possible.
- Generally, the VCR cannot record a TV channel that cannot be received properly by the VCR's tuner, even though you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV's output if that channel can be viewed on the TV, even though the TV channel cannot be received properly by the VCR's tuner. For details, refer to your VCR instruction manual.

■ TV Auto Power On/VCR Image View

When the VCR starts playing, the TV automatically turns on and the images from EXT-2 terminal are displayed on the screen.

When the VCR menu is operated, the TV automatically turns on and the images from EXT-2 terminal are displayed on the screen.

Note:

- This function does not operate if your TV's main power is turned off. Set your TV's main power to on (standby mode).

BASIC OPERATION

■ Turn the Main power on

Press the Main power button on the TV.

The Power lamp lights red and your TV is in the standby mode.

Note:

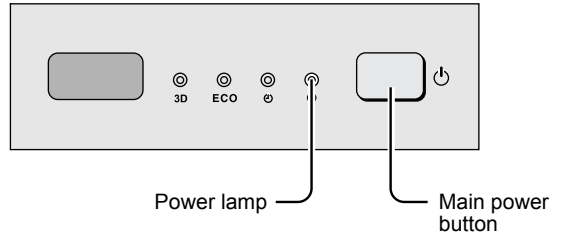
- If the Power lamp lights green, the TV is already on.

To turn the Main power off:

Press the Main power button again.
The Power lamp goes off.

Caution:

- The main power button on the TV does not fully isolate the TV from the AC supply. If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.



■ Turn the TV on from standby mode

Press the $\odot/|$ (Standby) button, the TV button, the ∇/\blacktriangle buttons or the Number buttons.

The Power lamp lights red to green and your TV will be turned on.

To turn the TV off:

Press the $\odot/|$ (standby) button again.
The Power lamp changes from green to red and the TV enters standby mode.

■ Choose a TV channel

Choose a Programme number (PR) in which the desired Programme TV channel has been set.

Use the ∇/\blacktriangle buttons:

Press the ∇/\blacktriangle buttons to choose the desired Programme number (PR).

Use the Number buttons:

Enter the desired Programme number (PR) with the Number buttons.

Example:

- PR 12 \rightarrow press **1** and **2**.
- PR 6 \rightarrow press **6**.

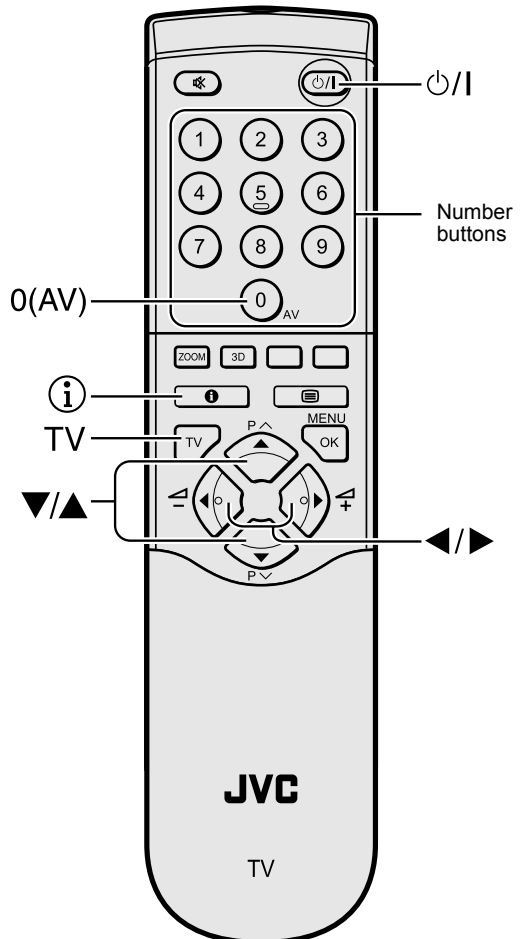
Use the PR LIST:

- 1 Press the i (Information) button to display the PR LIST.

PR LIST	
PR	ID
AV	
01	BBC1
02	
03	
04	
05	
06	
07	
08	
09	



Below the table are icons for the TV, a power button, and a directional pad with 'TV' and 'OK' labels. At the bottom left is '-10' and at the bottom right is '+10'.

D0006-EN



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

Note:

- For Programme numbers (PR) with the CHILD LOCK function set, the  (CHILD LOCK) 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 CHILD LOCK function set.
- Even if you try to choose a Programme number (PR) with the CHILD LOCK function set, the  (CHILD LOCK) mark will appear, and you cannot watch the TV channel. To watch the TV channel, see "CHILD LOCK" on page 25.
- If you do not have a clear picture or no colour appears, change the colour system manually. See "COLOUR SYSTEM" on page 17.
- If the picture is tilted, correct it. See "PICTURE TILT" on page 17.

■ Adjust the volume

Press the ◀/▶ buttons to adjust the volume.

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

To listen to the sound using headphones:

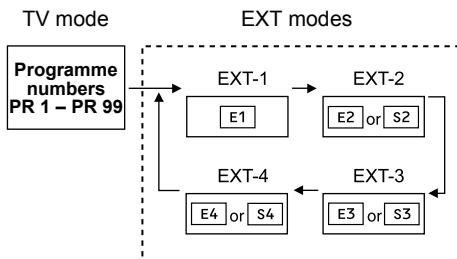
See "HEADPHONE" on page 19.

■ Watch images from external devices

Choose an EXT terminal to which the desired external device has been connected.

Use the 0 (AV) button:


Press the 0 (AV) button to choose an EXT terminal. Pressing the 0 (AV) button changes the choice as follows:



Use the ▼/▲ buttons:

Press the ▼/▲ buttons to choose an EXT terminal.

Use the PR LIST:

- 1 Press the  (Information) button to display the PR LIST.**
- 2 Press the ◀/▶ and ▼/▲ buttons to choose an EXT terminal. Then press the OK button.**

Note:

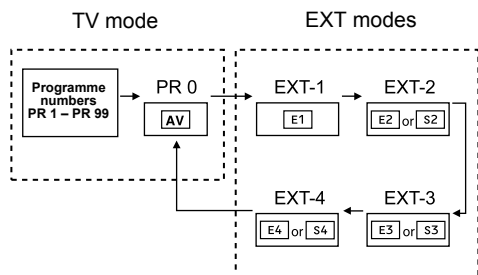
- The EXT terminals are registered after the Programme number PR 99.
- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see "S-IN (S-VIDEO input)" on page 23.
- When listening to Dolby Digital audio, see "Listening to Dolby Digital audio" on page 36.
- If you do not have a clear picture or no colour appears, change the colour system manually. See "COLOUR SYSTEM" on page 17.
- When choosing an EXT terminal with no input signal, the EXT terminal number becomes fixed on the screen.
- This TV set has a function which can automatically change over the input according to a special signal output from an external device. (The EXT-4 terminal does not support it.)

To return to a TV channel:

Press the TV button, the ▼/▲ buttons 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 28. Pressing the 0 (AV) button changes the choice as follows:



Note:

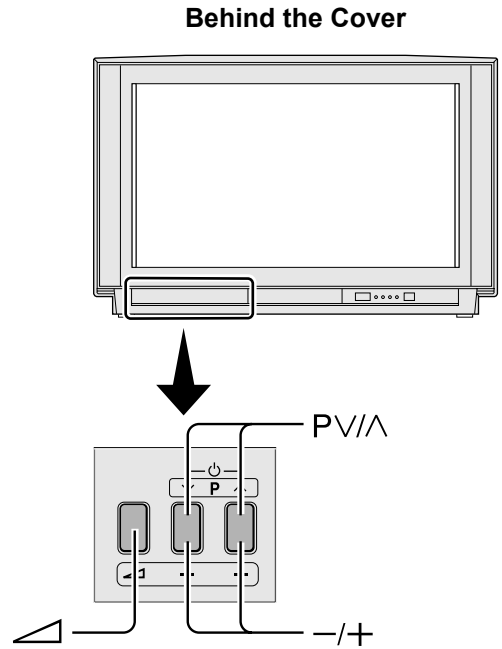
- The VCR RF channel is sent as the RF signal from the VCR.
- Also refer to your VCR instruction manual.

■ **Operating with the buttons on the TV**

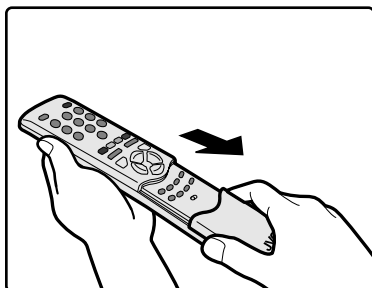
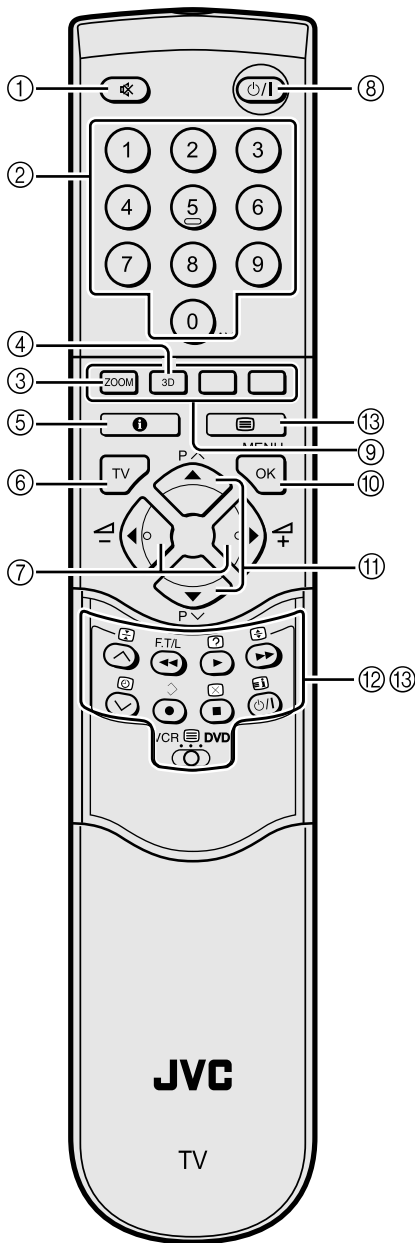
- 1** Press the **P ∇/∧** buttons to turn the TV on from standby mode.
- 2** Press the **P ∇/∧** buttons to choose a Programme number (PR) or an EXT terminal.
- 3** Press the **∇** (Volume) button and the **-/+** buttons to adjust the volume.
 - 1** Press the **∇** (Volume) button.
The volume level indicator appears.
 - 2** Press the **-/+** buttons while the volume level indicator is displayed.

Note:

- The buttons on the TV cannot be used to adjust the volume of the headphones.





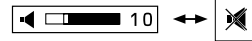
REMOTE CONTROL BUTTONS AND FUNCTIONS



① Muting Button

You can turn the volume off instantly.

Press the  (Muting) button to turn off the Volume. Pressing the  (Muting) button again resumes the previous Volume level.



② Number Buttons

You can choose a Programme number (PR) by entering the Programme number.

Example:

- PR 12 → press **1** and **2**.
- PR 6 → press **6**.

You can also press the **0 (AV)** button repeatedly to choose an EXT terminal.

③ ZOOM Button

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

AUTO:

For any picture format except Normal Picture (4:3 Aspect Ratio), the picture will be automatically displayed in the optimum screen size.

For Normal Picture (4:3 Aspect Ratio), the picture displayed in accordance with the ZOOM mode set on the 4:3 AUTO ASPECT menu. For details, see "4:3 AUTO ASPECT" on page 17.

Note:

- AUTO may not function properly with poor signal quality. In this case, choose an optimum ZOOM mode manually.
- This TV supports WSS (wide-screen signals). When broadcasts with WSS are received with the ZOOM mode set at AUTO, the most suitable ZOOM mode is automatically chosen according to the WSS received.

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.



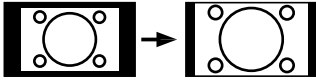
Note:

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

REMOTE CONTROL BUTTONS AND FUNCTIONS

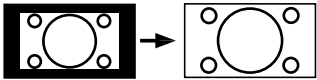
14:9 ZOOM:

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



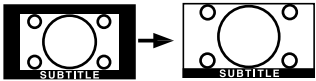
16:9 ZOOM:

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



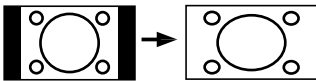
16:9 ZOOM SUBTITLE:

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.

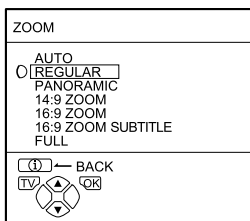


Note:

- 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.



D0009-EN

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.

Note:

- The ZOOM mode may be automatically changed due to the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

Adjusting the visible area of the picture

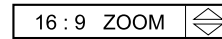
If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

1 Press the ZOOM button.

The ZOOM menu appears.

2 Press the OK button to display the ZOOM mode indication.

Indicator is displayed.



D0010-EN

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

Note:

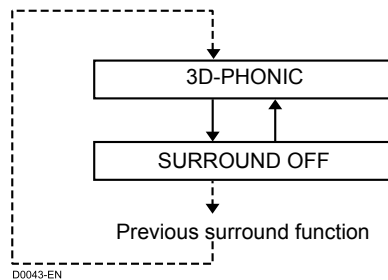
- You cannot adjust the visible area in REGULAR or FULL mode.

④ 3D Button

You can turn the 3D-PHONIC function on or off by one-touch operation.

Press the 3D button.

Pressing the 3D button changes the function as follows:



D0043-EN


Note:

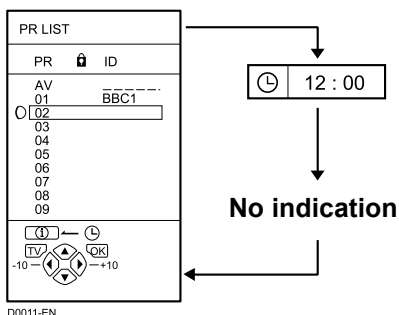
- For details, see "3D-PHONIC" on page 20.
- If another surround function is activated before you press the 3D button, you can return to that surround function.
- The 3D button does not work while the headphones are connected to the TV.

⑤ Information Button


You can display the PR LIST or the Current Time on the screen.

Press the  (Information) button.

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



Note:

- You can choose Programme numbers (PR) or EXT terminals with the PR LIST. For details, see "Use the PR LIST:" on page 6.
- 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. The time will still be displayed as long as you do not turn off the TV, even if you choose other TV channels.
- When watching videos, an incorrect current time is sometimes displayed.
- The  (Information) button is also used to operate menus. For details, see "MENU OPERATION" on page 14.


⑥ TV Button

You can return to a TV channel instantly.

Press the  button.

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

Note:


- The  button is also used to operate menus. For details, see "MENU OPERATION" on page 14.

⑦ Buttons


You can adjust the volume.

Press the  buttons to adjust the sound.

Note:


- The  buttons are also used to operate menus. For details, see "MENU OPERATION" on page 14.

⑧ Standby Button

Press the  (Standby) button to turn the TV on or off.

When the TV is turned on, the power lamp changes from red to green.

⑨ Colour Buttons


The colour buttons are used for the teletext operations or the menu operations. For details, see "⑬ Teletext Control Buttons and VCR  DVD Switch" on page 12 or "MENU OPERATION" on page 14.


⑩ OK Button

The **OK** button is used to operate menus. For details, see "MENU OPERATION" on page 14.

⑪ Buttons

You can choose a Programme number (PR) or an EXT terminal.

Press the  buttons to choose an Programme number (PR) or an EXT terminal.

The  buttons are also used to operate menus. For details, see "MENU OPERATION" on page 14.

⑫ VCR/DVD Control Buttons and VCR DVD Switch

These buttons can be used to 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 DVD Switch to the VCR or DVD position.

VCR:




When you are operating the VCR, set the switch to the VCR position.

DVD:

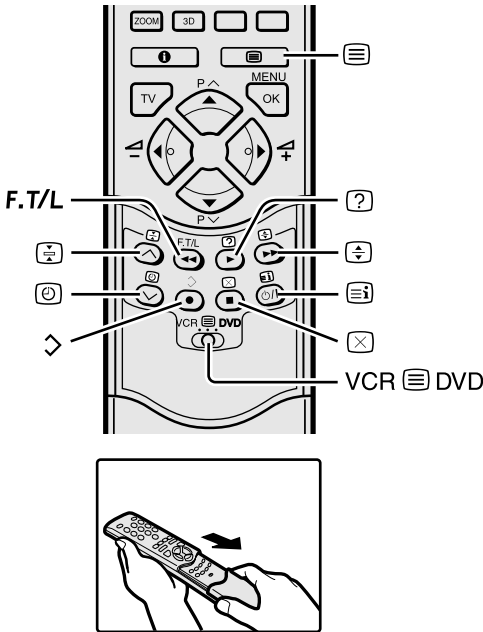
When you are operating the DVD player, set the switch to the DVD position.

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

Note:

- 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  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  buttons for both operating of Fast forward/backward functions and choosing the chapter. In this case, the  the buttons do not work.

13 Teletext Control Buttons and VCR DVD Switch



Basic operation

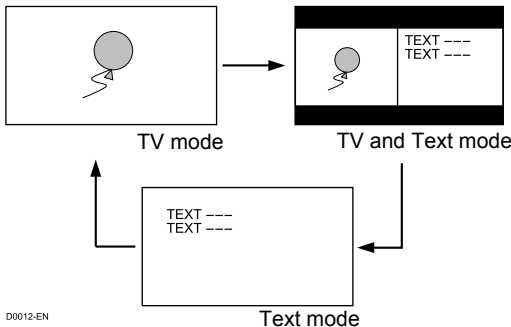
You can view three types of teletext broadcasts on the TV: FLOF (Fastext), TOP and WST.

- 1 Choose a TV channel with a teletext broadcast.
- 2 Set the VCR DVD switch to the (Text) position.



- 3 Press (Text) button to display the teletext.

Pressing (Text) button changes the mode as follows:



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- 4 Choose a teletext page by pressing the ▼/▲ buttons, Number buttons or Colour buttons.

To return to the TV mode:

Press the TV button or (Text) button.

Note:

- 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 COUNTRY menu. If characters on a Teletext programme do not appear properly, change the COUNTRY Setting to other country's. For detail, "Changing the COUNTRY setting" on page 33.

Using the List Mode

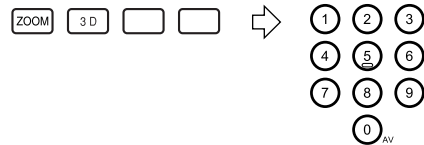
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

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.




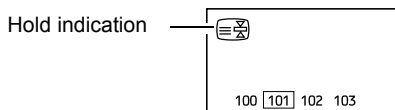
To exit the List mode:

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) button again.

Sub-page

Some teletext pages include sub-pages that are automatically displayed. You can hold any sub-page, or view it at any time.

- 1 Press the  (Sub-page) button to operate the Sub-page function.


Sub-page numbers are displayed at the left of the screen.

Colour*	Meaning of sub-page number
Yellow	Currently being displayed.
White	Can be displayed.
Blue or Red	Cannot be displayed and it is not sent.

*: Background color of the sub-page number.


- 2 Press the / buttons to choose a sub-page number.

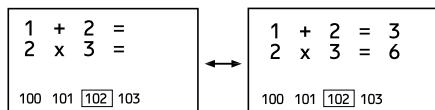
To cancel the Sub-page function:

Press the  (Sub-page) button again.

Reveal


Some teletext pages include hidden text (such as answers to a quiz). You can display the hidden text.

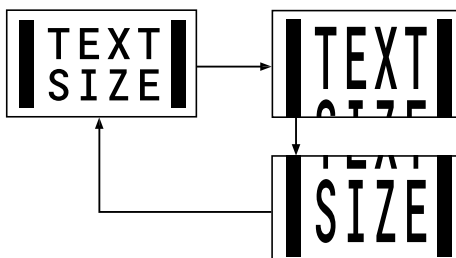
Each time you press the  (Reveal) button, text is hidden or revealed.



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.

FLOF (Fasttext)/TOP/WST:

Returns to page 100 or a previously specified page.

List mode:

Returns to the page number displayed in the lower left area of the screen.

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.

Note:

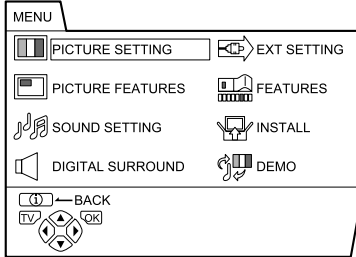
- The TV mode cannot be resumed even by pressing the  (Cancel) button. A TV programme is temporarily displayed instead of the teletext programme.

MENU OPERATION

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.

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

The MENU (main menu) appears. In it, the titles of the menus are displayed.



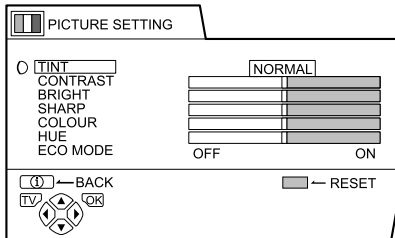
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Note:

- The title of the DIGITAL SURROUND menu is not displayed while the headphones are connected to the TV.

2 Press the ▼/▲ buttons to choose a menu title, and press the OK button.

The menu appears.



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3 Operate the menus according to the operation description of each function.

Note:

- For details, refer to the operation descriptions of each function described for each menu which follows this "MENU OPERATION".
- The display appearing at the bottom of a menu indicates a button on the remote controller you can use when you operate a chosen function.

4 Press OK button to complete the setting.

The menu disappears.

To return to the previous menu:

Press **ⓘ** (information) button.

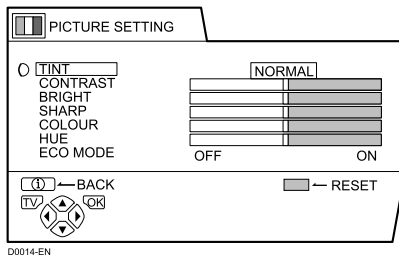
To exit a menu instantly:

Press the **TV** button.

Note:

- When watching the television with the NTSC system, the menus are displayed at about half of their normal vertical size.

PICTURE SETTING



To display the **PICTURE SETTING** menu:

- 1 Press the **OK** button to display **MENU** (main menu).
- 2 Press the **▼/▲** button to choose **PICTURE SETTING**, and press the **OK** button.

■ TINT

You can select one of three TINT modes (three kinds of picture settings) to adjust the picture settings automatically.

- 1 Press the **▼/▲** buttons to choose **TINT**.
- 2 Press **◀/▶** buttons to choose a mode.

COOL:

A cool white colour base with a boost in the colour and contrast levels that creates a more vivid picture.

WARM:

A warm orange/red colour base that creates the appropriate colour and contrast levels for watching films.

NORMAL:

A normal white colour base with normal colour and contrast levels.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

■ Picture Adjustment

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

The picture settings changed are stored in the TINT mode.

- 1 Press the **▼/▲** buttons to choose an item.
- 2 Press the **◀/▶** buttons to change the setting.

◀	Item	▶
Lower	CONTRAST (picture contrast)	Higher
Darker	BRIGHT (picture brightness)	Brighter
Softer	SHARP (picture sharpness)	Sharper
Lighter	COLOUR (picture colour)	Deeper
Reddish	HUE (picture hue)	Greenish

Note:

- You can change the HUE setting (picture hue) only when the colour system is NTSC 3.58 or NTSC 4.43.

To return to the default settings in each TINT mode:

Press the blue button.

Returns the picture settings in the currently chosen TINT mode to the default settings, and stores them in the TINT mode again.

- 3 Press the **OK** button to complete the settings.

The menu disappears.

■ ECO MODE

When you set the ECO MODE function to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room. This reduces eye strain for you and the power consumption of the TV.

- 1 Press **▼/▲** buttons to choose **ECO MODE**.
- 2 Press **◀/▶** buttons to choose **ON**.

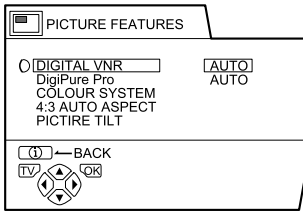
To cancel the ECO MODE function:

Press **◀/▶** buttons to choose **OFF**.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

PICTURE FEATURES



To display the **PICTURE FEATURES** menu:

- 1 Press the **OK** button to display **MENU** (main menu).
- 2 Press the **▼/▲** button to choose **PICTURE FEATURES**, and press the **OK** button.

■ 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**.

Note:

- 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.

- 1 Press the **▼/▲** buttons to choose **DIGITAL VNR**.
- 2 Press the **◀/▶** buttons to choose a setting.

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.

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.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

■ DigiPure Pro

The **DigiPure Pro** function uses the latest in digital technology to give you a natural looking picture. The **DigiPure Pro** 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. Conversely, 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**.

Note:

- 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. It is recommended to 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.

Note:

- 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 Press the **▼/▲** buttons to choose **DigiPure Pro**.
- 2 Press the **◀/▶** buttons to choose a setting.

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.

MIN:

The level of **DigiPure** effect is set to the minimum. When you set the **DigiPure Pro** 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 **DigiPure Pro** 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 **DigiPure Pro** function is turned off.

- 3 Press the **OK** button to complete the setting.

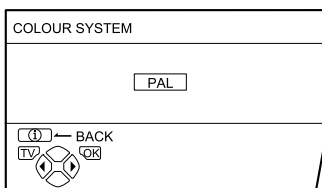
The menu disappears.

■ 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 Press the ▼/▲ buttons to choose **COLOUR SYSTEM**. Then press the **OK** button.

The Sub-menu of the COLOUR SYSTEM function appears.



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- 2 Press the ◀/▶ buttons to choose the appropriate colour system.

PAL:

PAL system

SECAM:

SECAM system

NTSC 3.58:

NTSC 3.58 MHz system

NTSC 4.43:

NTSC 4.43 MHz system

AUTO:

This function detects a colour system from the input signal. Only when you are viewing a picture from Programme number PR 0 (AV), or EXT terminal, you can choose using the AUTO function.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

Note:

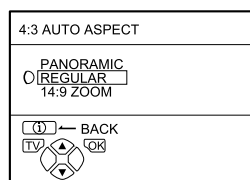
- The AUTO function may not function properly if you have poor signal quality. If the picture is abnormal in the AUTO function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.

■ 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 Press the ▼/▲ buttons to choose **4:3 AUTO ASPECT**. Then press the **OK** button.

The Sub-menu of the 4:3 AUTO ASPECT function appears.



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- 2 Press the ▼/▲ buttons to choose a ZOOM mode.

- 3 Press the **OK** button to complete the settings.

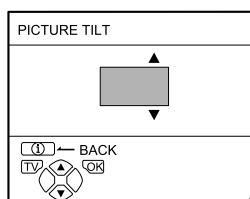
The menu disappears.

■ PICTURE TILT

There are cases where the Earth's magnetic force may make the picture tilt. If this happens, you can correct the picture tilt.

- 1 Press the ▼/▲ buttons to choose **PICTURE TILT**. Then press the **OK** button.

The Sub-menu of the PICTURE TILT function appears.



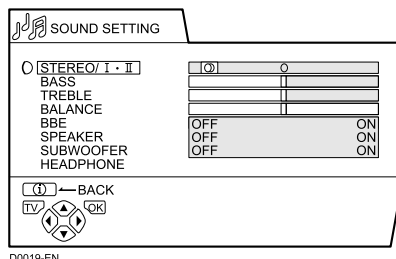
D0018-EN

- 2 Press the ▼/▲ buttons until the picture becomes level.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

SOUND SETTING



D0019-EN

To display the **SOUND SETTING** menu:

- 1 Press the **OK** button to display **MENU** (main menu).
- 2 Press the **▼/▲** button to choose **SOUND SETTING**. Then press the **OK** button.

■ 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.

- 1 Press the **▼/▲** buttons to choose **STEREO / I • II**.
- 2 Press the **◀/▶** buttons to choose a sound mode.
 - ∞ : Stereo sound
 - : mono sound
 - I : Bilingual I (sub I)
 - II : Bilingual II (sub II)
- 3 Press the **OK** button to complete the setting.

The menu disappears.

Note:

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

■ Sound Adjustment

You can adjust the sound to your liking.

- 1 Press the **▼/▲** buttons to choose an item.
- 2 Press the **◀/▶** buttons to adjust it.

◀	Item	▶
Weaker	BASS	Stronger
Weaker	TREBLE	Stronger
Left	BALANCE	Right

- 3 Press the **OK** button to complete the setting.

The menu disappears.

Note:

- When the 3D-PHONIC function or DOLBY DIGITAL function is operating, the "BALANCE" item does not appear.

■ BBE

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

- 1 Press the **▼/▲** buttons to choose **BBE**.
- 2 Press the **◀/▶** buttons to choose **ON**.

To cancel the BBE function:

Press the **◀/▶** buttons to choose **OFF**.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

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

■ SPEAKER

- Set the **SPEAKER** function to **OFF** when external front speakers are connected to the TV. If the **SPEAKER** function is set to **OFF**, no sound is emitted from the TV speakers.

- 1 Press the **▼/▲** buttons to choose **SPEAKER**.
- 2 Press the **◀/▶** buttons to choose **ON** or **OFF**.
- 3 Press the **OK** button to complete the setting.

The menu disappears.

Note:

- To emit the sound from the TV speakers, set the **SPEAKER** function to **ON**.
- The "SPEAKER" item is not displayed when the 3D-PHONIC function or DOLBY DIGITAL function are operating.

■ SUBWOOFER

Set the SUBWOOFER function to ON when the subwoofer is connected to the TV.

- 1 Press the ▼/▲ buttons to choose **SUBWOOFER**.
- 2 Press the ◀/▶ buttons to choose **ON** or **OFF**.
- 3 Press the **OK** button to complete the setting.

The menu disappears.

Note:

- Set the SUBWOOFER function to OFF when the subwoofer is not connected to the TV.
- When the 3D-PHONIC function or DOLBY DIGITAL function is operating, the "SUBWOOFER" item does not appear.

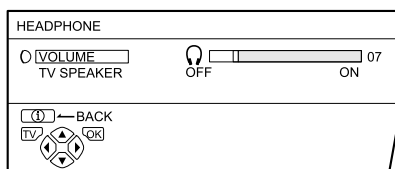
■ HEADPHONE

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

Use of the HEADPHONE menu also makes it possible to select whether or not sound is emitted from the TV speakers when using the headphones.

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

The sub-menu of the HEADPHONE function appears.



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- 2 Change the setting.

To adjust the volume of the headphones:

Use the ▼/▲ buttons to choose VOLUME and use the ◀/▶ buttons to adjust the volume.

To prevent the sound from being emitted from the TV speakers when the headphones are in use:

Use the ▼/▲ buttons to choose TV SPEAKER and use the ◀/▶ buttons to select OFF.

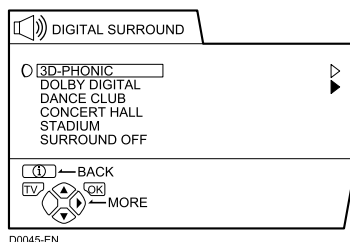
Note:

- The sound will be emitted from the TV speakers even when listening with the headphones if the TV SPEAKER is turned ON.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

DIGITAL SURROUND



You can enjoy the surround sound with any of the five surround functions.

- 1 Press the OK button to display MENU (main menu).**
- 2 Press the ▼/▲ buttons to choose DIGITAL SURROUND. Then press the OK button.**
 - The DIGITAL SURROUND menu is not displayed while the headphones are connected to the TV. Disconnect the headphones from the TV.
- 3 Press the ▼/▲ buttons to choose the function you want to use.**

To cancel a surround function:
Press the ▼/▲ buttons to choose SURROUND OFF.
- 4 Press the OK button to complete the setting.**

The menu disappears.

■ 3D-PHONIC

Dolby Surround Pro Logic surround sound and Dolby Digital surround sound can be easily enjoyed without additional surround speakers.

Using rear surround signals of Dolby Surround encoded programmes or Dolby Digital programmes, this function will create the surround sound as if surround speakers were located to your right and left.

When viewing a programme from the EXT terminal which has been set to DIGITAL-IN:

You can enjoy the atmosphere of the surround sound of Dolby Digital programmes.

If the programme source has 5.1-channel Dolby Digital soundtracks, you can enjoy the atmosphere of the 5.1-channel Dolby Digital surround.

When viewing Dolby Surround encoded programmes, you can enjoy the atmosphere of Dolby Surround Pro Logic surround sound.

When viewing a programme from the EXT terminal which has not been set to DIGITAL-IN, or when viewing a TV broadcasting programme:

When viewing Dolby Surround encoded programmes, you can enjoy the atmosphere of Dolby Surround Pro Logic surround sound.

- You can turn this function on or off with a single press. For details, see “④ 3D Button” on page 10.
- For details of how to adjust the surround effect level, adjust the volume balance of the speakers, and perform the setting necessary when adding a front speaker system or subwoofer system, refer to “3D-PHONIC setting” on page 21.

- This function does not work properly except for Dolby Surround encoded programmes and Dolby Digital programmes.

■ DOLBY DIGITAL

You can enjoy the surround sound of Dolby* Digital programmes and Dolby Surround encoded programmes.

When viewing a programme from the EXT terminal which has been set to DIGITAL-IN:

You can enjoy the surround sound of Dolby Digital programmes.

If the programme source has 5.1-channel Dolby Digital soundtracks, you can enjoy the 5.1-channel Dolby Digital surround sound.

When viewing the Dolby Surround encoded programmes, you can enjoy the Dolby Surround Pro Logic surround sound.

When viewing a programme from the EXT terminal which has not been set to DIGITAL-IN, or when viewing a TV broadcasting programme:

When viewing the Dolby Surround encoded programmes, you can enjoy the Dolby Surround Pro Logic surround sound.

- Additional surround speakers are necessary in order to use this function to enjoy surround sound. Although you can listen to Dolby Digital audio without surround speakers, you cannot enjoy surround sound such as 5.1-channel Dolby Digital surround sound.
- Before using this function, correctly set each of the items in the DOLBY DIGITAL menu in accordance with “DOLBY DIGITAL setting” on page 21.
- Dolby Digital soundtracks can provide anything from mono to full 5.1-channel Dolby Digital surround sound. When a Dolby Digital audio signal is received, the number of front channels and rear channels included in the signal are displayed on the screen for a few seconds as “DOLBY D (number of front channels) / (number of rear channels)”. If LFE (low frequency effects) are included in the signal, “.1” is displayed after the number of rear channels. For example, “DOLBY D 3/2.1” is displayed when a 5.1-channel Dolby Digital signal is received.
- This function does not work properly except for Dolby Surround encoded programmes and Dolby Digital programmes.

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Note:

- Dolby Digital is an advanced form of digital audio coding. Dolby Digital audio is available from programme sources (such as DVD-video discs) which are usually identified with a Dolby Digital logo.
- When you connect the subwoofer system to the TV, you can enjoy the powerful low frequency effects (LFE) of 5.1-channel Dolby Digital more effectively.
- This TV does not work with digital audio signals other than Dolby Digital audio. If no sound is emitted from the speakers, cancel the DIGITAL-IN setting and change to normal analog sounds.

■ Other surround functions

DANCE CLUB:

This function creates a dance club atmosphere.

CONCERT HALL:

This function creates a concert hall atmosphere.

STADIUM:

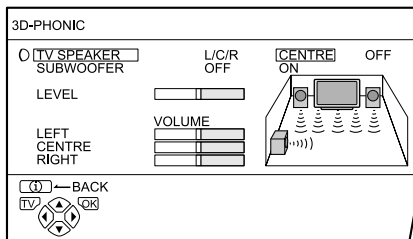
This function creates a stadium atmosphere.

- The above function does not appear in the DIGITAL SURROUND menu when viewing a programme from the EXT terminal which has been set to DIGITAL-IN.
- The above function does not work properly for the Dolby Surround encoded programmes or mono sound programmes.

3D-PHONIC setting

- 1 Press the ∇/\blacktriangle buttons to choose 3D-PHONIC. Then press the \blacktriangleright button.

The sub-menu of the 3D-PHONIC function appears.



D0046-EN

- 2 Press the ∇/\blacktriangle buttons to choose an item. Then press the $\blacktriangle/\blacktriangleleft$ buttons to change the setting.

TV SPEAKER:

Only set to CENTRE when the front speakers are connected to the TV. Otherwise set to L/C/R.

SUBWOOFER:

Set SUBWOOFER to ON when the subwoofer system is connected to the TV. Otherwise, set to OFF.

LEVEL:

You can control the effect level of the 3D-PHONIC function as you like.

VOLUME (LEFT/CENTRE/RIGHT):

You can adjust the sound level of each speaker individually. LEFT/RIGHT denotes left and right of the front speakers and CENTRE denotes the centre speaker.

- 3 Press the OK button to complete the setting.

The menu disappears.

Note:

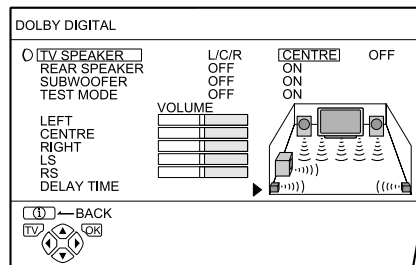
- When a speaker system is not connected to the TV, set TV SPEAKER to L/C/R and SUBWOOFER to OFF. Otherwise the sound will not be emitted correctly.
- When you do not want to emit sound from the TV speakers, set TV SPEAKER to OFF.

DOLBY DIGITAL setting

Correctly set the items in the sub-menu of the DOLBY DIGITAL function, and use the test signal to control the volume level of the speakers so that you can listen to the sounds from them uniformly. Be sure to perform this operation before using the DOLBY DIGITAL function.

- 1 Press the ∇/\blacktriangle buttons to choose DOLBY DIGITAL. Then press the \blacktriangleright button.

The sub-menu of the DOLBY DIGITAL function appears.



D0047-EN

- 2 Press the ∇/\blacktriangle buttons to choose an item. Then press the $\blacktriangle/\blacktriangleleft$ buttons to change the setting.

TV SPEAKER:

Only set to CENTRE when the front speakers are connected to the TV. Otherwise set to L/C/R.

REAR SPEAKER:

Set to ON when the rear speaker is connected to the TV. Otherwise set to OFF. However, you cannot enjoy surround sound when it is set to OFF.

SUBWOOFER:

Set SUBWOOFER to ON when the subwoofer system is connected to the TV. Otherwise, set to OFF.

TEST MODE/VOLUME (LEFT/CENTRE/RIGHT/LS/RS):

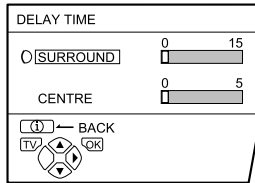
Set the volume balance of the speakers so that the correct surround effect can be achieved.

When the other settings have been completed, adjust in accordance with "Adjusting the volume balance with the TEST MODE" on page 22.

DELAY TIME:

A delay can be applied to SURROUND (surround sound) and CENTRE (centre sound) depending on the arrangement of the speakers.

Select DELAY TIME and press the ► button to display the DELAY TIME menu. The DELAY TIME is changed in 1ms steps every time the ◀/▶ buttons are pressed.



3 Press the OK button to complete the setting.

The menu disappears.

Note:

- When a speaker system is not connected to the TV, set TV SPEAKER to L/C/R and SUBWOOFER to OFF. Otherwise the sound will not be emitted correctly.
- When you do not want to emit sound from the TV speakers, set TV SPEAKER to OFF.
- The CENTRE (centre sound) DELAY TIME cannot be adjusted when the TV SPEAKER is set to L/C/R.

Adjusting the volume balance with the TEST MODE

Use the test signal to adjust the volume level of each speaker so that they are all the same.

Preparation:

- The TV volume cannot be adjusted after the menu is displayed. Increase to the TV volume level to about 10 before displaying the menu.

1 Display the sub-menu of the DOLBY DIGITAL function.

2 Press the ▼/▲ buttons to choose TEST MODE. Then press the ◀/▶ buttons to choose ON.

Test signals are output from each of the speakers in turn.

When using the front speaker system and/or subwoofer system with the TV:

Turn on the power of each amplifier, slowly increase the amplifier's volumes until the sound emitted from each speaker connected to the system is about the same as that of the sound emitted from the TV speakers. Note that increasing the amplifier volume too high may damage the speakers.

Stopping the test signal:

Press the ▼/▲ buttons to choose TEST MODE and press the ◀/▶ buttons to choose OFF.

3 Press the ▼/▲ buttons to adjust the sound volume of each of the speakers.

Adjust the sound volumes so that you can listen to the sounds at the same volume when you are sitting where you would normally sit to watch the TV.

LEFT/RIGHT:

The left or right of the front speakers

CENTRE:

The centre speaker

LS/RS:

The left or right of the surround speakers

If REAR SPEAKER is set to OFF, LS and RS are not displayed.

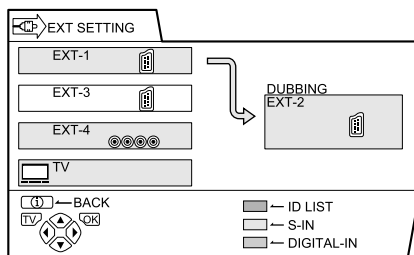
4 Press the OK button to complete the settings.

The menu disappears.

Note:

- When using the front speaker system or subwoofer system with the TV, it is recommend that this TEST MODE is used to adjust the speaker volume levels each time the system is used.

EXT SETTING



D0020-EN

To display EXT SETTING menu:

- 1 Press the **OK** button to display **MENU** (main menu).
- 2 Press the **▼/▲** button to choose **EXT SETTING**. Then press the **OK** button.

■ S-IN (S-VIDEO input)

When connecting a device (such as S-VHS VCR) which enables an S-VIDEO signal (Y/C signal) to be output, you can enjoy high-quality picture of the S-VIDEO signal (Y/C signal).

Preparation:

- At first, read the Device Instruction Manual and "ADDITIONAL PREPARATION" on page 35 to connect the device to the TV properly. Second, follow the Device Instruction Manual to set the device so that a S-VIDEO signal (Y/C signal) can be output to the TV.
- Do not set S-IN (S-VIDEO input) to the EXT terminal connected to a device which cannot output a S-VIDEO (Y/C signal). If it is set wrongly, a picture cannot appear.

1 Press the ▼/▲ buttons or ◀/▶ buttons to choose an EXT terminal.

2 Press the yellow button and set the S-IN (S-VIDEO input).

A **S** (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

To cancel the S-IN (S-VIDEO input) setting:

Press the yellow button and turn off **S** (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

3 Press the OK button to complete the setting.

The menu disappears.

Note:

- The EXT-1 terminal does not support S-VIDEO signal (Y/C signal) and you cannot set S-IN (S-VIDEO input) in the EXT-1 terminal.
- Setting S-IN (S-VIDEO input) changes the head character from "E" to "S". For example, "E2" is changed to "S2".
- Even an device which enables the S-VIDEO signal (Y/C signal) to be output may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because S-IN (S-VIDEO input) setting has been made, read the device Instruction Manual carefully again to check for the device settings.

■ DIGITAL-IN

When connecting a device (such as DVD player) which enables Dolby Digital audio signal to be putput, you can listen to Dolby Digital audio.


Preparation:


- In order to listen to Dolby Digital audio, correctly connect a device to the TV in accordance with "Listening to Dolby Digital audio" on page 36.
- If DIGITAL-IN is set by mistake when no device is connected to the DIGITAL AUDIO IN terminal, no sound is emitted.

1 Press the ▼/▲ buttons or ◀/▶ buttons to choose an EXT terminal.

2 Press the green button to set the DIGITAL-IN.

Pressing the green button repeatedly until the mark which is the same as the type of cable connected to the DIGITAL AUDIO IN terminal is selected.

 : Select this mark when connected with coaxial cable.

 : Select this mark when connected with optical cable.

To cancel the DIGITAL-IN setting:

Press the green button to turn off the mark of DIGITAL-IN.

3 Press the OK button to complete the setting.

The menu disappears.

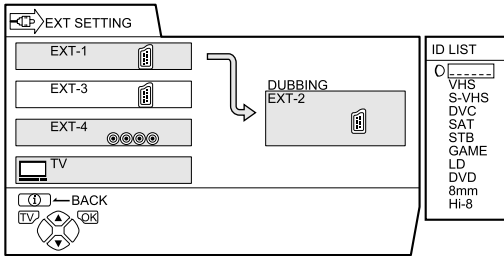
Note:

- DIGITAL-IN cannot be set for the TV and EXT-4 terminal.
- This TV does not work with digital audio signals other than Dolby Digital audio. If no sound is emitted from the speakers, cancel the DIGITAL-IN setting and change to normal analog sounds.

■ ID LIST

You can have a name corresponding to the devices connected for each EXT terminal. Giving a name to an EXT terminal makes the EXT terminal number appear on the screen, together with the name.

- 1 Press the **▼/▲** buttons or **◀/▶** buttons to choose an EXT terminal.
- 2 Press the blue button to display the name list (ID LIST).



D0021-EN

- 3 Press the **▼/▲** buttons to choose a name. Then press the **OK** button.

The ID LIST disappears and the name is assigned to the EXT terminal.

To erase a name assigned to the EXT terminal:

Choose a blank space.

- 4 Press the **OK** button to complete the setting.

The menu disappears.

Note:

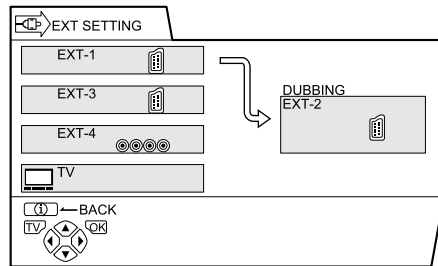
- You cannot assign an EXT terminal name not found in the name list (ID LIST).

■ DUBBING

You can choose a signal source to be output from an EXT-2 terminal.

You can choose any one of the output signal of the device connected to the EXT terminal and the picture and sound from a TV channel you are currently viewing to output it to the EXT-2 terminal.

- 1 Press the **◀/▶** buttons to choose the arrow from the menu.



D0022-EN

- 2 Press the **▼/▲** buttons to choose an EXT terminal or TV.

The arrow in the menu represents a signal flow. The left side of the arrow denotes a signal source output from the EXT-2 terminal.

EXT-1/EXT-3/EXT-4:

The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

TV:

The picture and sound of the TV channel you are currently viewing are output from the EXT-2 terminal.

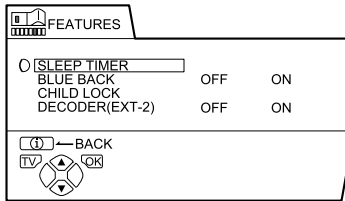
- 3 Press the **OK** button to complete the setting.

The menu disappears.

Note:

- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
- When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
- The RGB signals from the TV games cannot be output. Teletext programmes cannot be output.
- The sound from the EXT terminal set to DIGITAL-IN is not output from the EXT-2 terminal.

FEATURES



D0023-EN

To display the **FEATURES** menu:

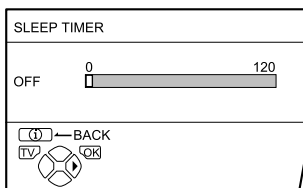
- 1 Press the **OK** button to display **MENU** (main menu).
- 2 Press the **▼/▲** button to choose **FEATURES**. Then press the **OK** button.

■ SLEEP TIMER

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

- 1 Press the **▼/▲** buttons to choose **SLEEP TIMER**. Then press the **OK** button.

A Sub-menu of the **SLEEP TIMER** function appears.



D0024-EN

- 2 Press the **◀/▶** buttons to set the period of time.

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

To cancel the SLEEP TIMER function:

Press the **◀** button to set a period of time to "OFF."

- 3 Press the **OK** button to complete the settings.

The menu disappears.

Note:

- 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.

■ 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.

- 1 Press the **▼/▲** buttons to choose **BLUE BACK**.
- 2 Press the **◀/▶** buttons to choose **ON**.

To cancel the BLUE BACK function:

Press the **◀/▶** buttons to choose **OFF**.

- 3 Press the **OK** button to complete the setting.

The menu disappears.

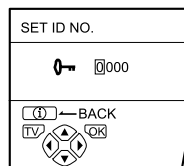
■ CHILD LOCK

When there is a TV channel you wish your children not to watch, you can use the **CHILD LOCK** 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 **⏸** (**CHILD LOCK**) 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 **CHILD LOCK** function

- 1 Press the **▼/▲** buttons to choose **CHILD LOCK**. Then press the **0 (AV)** button.

"SET ID NO." (ID number setting screen) appears.



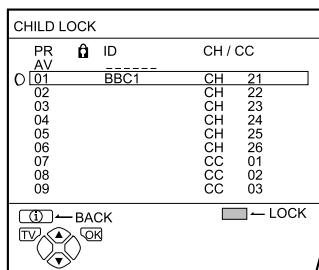
D0025-EN

- 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 **CHILD LOCK** appears.



D0026-EN

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 CHILD LOCK function.

🔒 (CHILD LOCK) appears and the TV channel is locked.

To reset the CHILD LOCK function:

Press the blue button again.

🔒 (CHILD LOCK) disappears.

6 Press the OK button to complete the setting.

The menu disappears.

Note:

- To disable easy resetting of the CHILD LOCK function, the menu disappears by choosing the CHILD LOCK function and pressing the **OK** button as in the ordinary menu operation.

Note:

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK 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 CHILD LOCK function, you must perform the operation "To set the CHILD LOCK 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.

■ DECODER (EXT-2)

Only when connecting a Decoder with a T-V LINK compatible VCR connected to the EXT-2 terminal, you can use this function. To operate this function, see "Using the DECODER (EXT-2) function" on page 34.

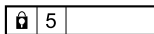
Caution:

- If you have not connected a Decoder with a T-V LINK compatible VCR connected to the EXT-2 terminal, setting this function to "ON" by mistake causes the picture/sound of a TV channel you are currently viewing not to be issued.

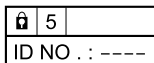
To view a locked TV channel

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 🔒 (CHILD LOCK) appears. You cannot view the TV channel.



2 Press the ⓘ (Information) button to display "ID NO." (ID NO. input screen).



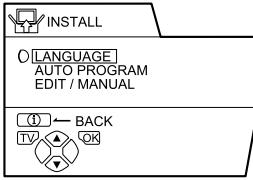
3 Press the Number buttons to enter the ID number.

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 CHILD LOCK function". After confirming the ID number, press the **TV** button to exit the menu.

INSTALL



D0029-EN

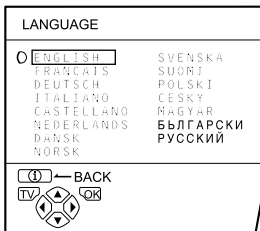
To display the **INSTALL** menu:

- 1 Press the **OK** button to display **MENU** (main menu).
- 2 Press the **▼/▲** button to choose the **INSTALL** menu. Then press the **OK** button.

LANGUAGE

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

- 1 Press the **▼/▲** buttons to choose **LANGUAGE**. Then press the **OK** button. A sub-menu of the LANGUAGE function appears.



D0002(E)-EN

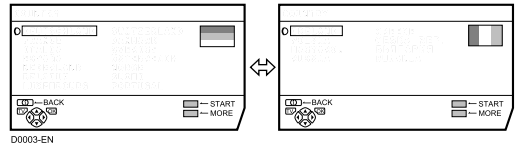
- 2 Press the **◀/▶** and **▼/▲** buttons to choose a language.
- 3 Press the **OK** button to complete the setting. The menu disappears.

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

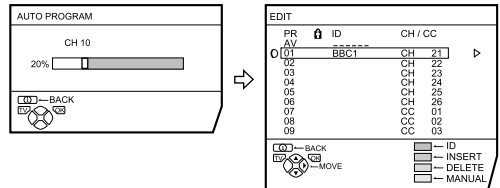
The **COUNTRY** menu appears as a sub-menu of the **AUTO PROGRAM** function. There are two **COUNTRY** menus. Pressing the yellow button changes the **COUNTRY** menu as follows:



D0003-EN

- 2 Press the **◀/▶** and **▼/▲** buttons to choose the country where you are now located.
- 3 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).



D0004-EN

If "ACI START/ACI SKIP" appears in the AUTO PROGRAM menu:

You can use the **ACI** (Automatic Channel Installation) function to decode the **ACI** data and complete the registration of all the TV channels in a short period of time. For details of the **ACI** function and how to use it, refer to "Using the **ACI** function" on page 33. If you don't want to use the **ACI** function, press the **▼/▲** buttons to choose **ACI SKIP** and then press **OK**.

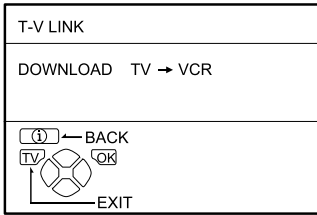
To cancel the AUTO PROGRAM function: Press the **TV** button.

- 4 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 28.

When not using the EDIT/MANUAL function: If you do not need to use the **EDIT/MANUAL** function, go to the next step.

5 Press the OK button to display the T-V LINK menu.



D0005-EN

6 Operate the T-V LINK menu according to the type of VCR connected to the EXT-2 terminal.

When a T-V LINK compatible VCR is not connected:

Press the **TV** button to exit the T-V LINK menu. The T-V LINK menu disappears, and all the settings are completed.

When a T-V LINK compatible VCR is connected:

Follow the operating procedure “Downloading the data to VCR” on page 33 to transmit the Programme number (PR) data to the VCR.

Note:

- When your TV can detect the TV channel name from the TV channel broadcast signal, it automatically registers the TV channel name (ID) to the Programme number (PR) in which the TV channel has been registered.
- If a TV channel you want to view is not set to a Programme number (PR), manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 28.
- The TV channel is not registered in Programme number PR 0 (AV). When you want to register a TV channel to PR 0 (AV) manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 28.

■ 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:

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.

DELETE:

This function deletes a unnecessary TV channel.

MANUAL:

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

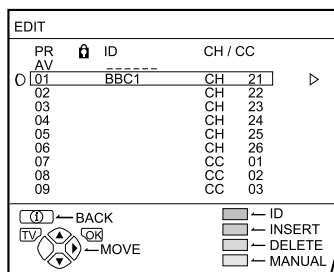
Caution:

- 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 CHILD LOCK function has been set cancels the CHILD LOCK function for the TV channel.
- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for the TV channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes the TV channel.

Note:

- For Programme number PR 0, “AV” appears in the Programme numbers (PR) list.
- An EXT 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 NUMBER” on page 39.
- 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).

1 Press the ▼/▲ buttons to choose EDIT/MANUAL. Then press the OK button.

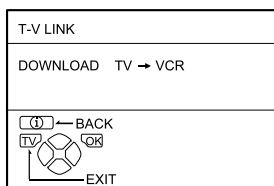


D0038-EN

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

3 Press the **OK** button to complete the settings.

The T-V LINK menu appears.



D0005-EN

4 Operate the T-V LINK menu according to the type of VCR connected to the EXT-2 terminal.

When a T-V LINK compatible VCR is not connected:

Press the **TV** button to exit the T-V LINK menu.

The T-V LINK menu disappears and all the settings are completed.

When a T-V LINK compatible VCR is connected:

Follow the operating procedure "Downloading the data to VCR" on page 33 to transmit the Programme number (PR) data to the VCR.

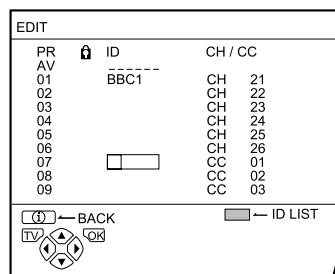
4 Press the **◀** button to change the Programme number (PR) of a TV channel to a new Programme number (PR).

ID

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

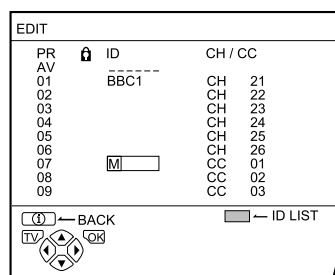
Every time you press the **▼/▲** buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

2 Press the red button to start the ID function.



D0031-EN

3 Press the **▼/▲** buttons to choose the first character of a Channel name (ID) you want to attach to the TV channel.



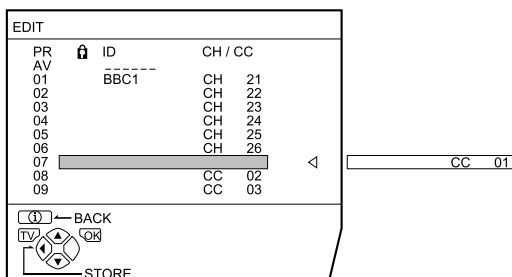
D0032-EN

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.



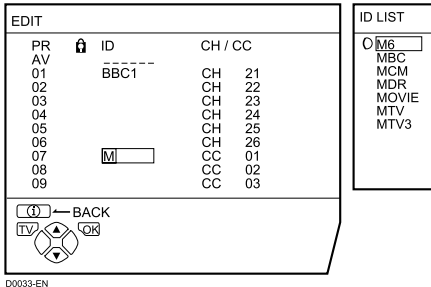
D0030-EN

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

To cancel the MOVE function:

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

4 Press the blue button to display the ID LIST (channel name list).



5 Press the ▼/▲ buttons to choose the Channel name (ID).

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

6 Press the OK button to register a Channel name (ID) to a TV channel.

Note:

- You can register your unique Channel name (ID) to the TV channel. When step 3 is completed, do not go to step 4, but press the ◀/▶ buttons to move the cursor and the ▼/▲ buttons to choose a character for completing the Channel name (ID). Then press the **OK** button to register the Channel name (ID) to the TV channel.

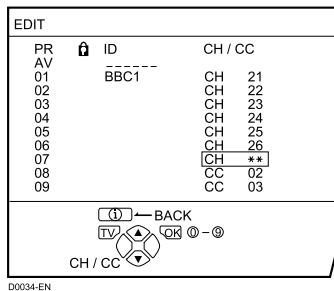
INSERT

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 NUMBER" on page 39 based on the Channel number of the TV channel.
- When the COUNTRY setting is not FRANCE, use a two-digit CH/CC number. When the COUNTRY setting is FRANCE, use a three-digit CH/CC number.
- Only when you add a TV channel (SECAM-L system) from a French station, be sure to set COUNTRY to FRANCE. If the COUNTRY setting is not FRANCE, follow the description "Changing the COUNTRY setting" on page 33 to change the COUNTRY setting to FRANCE, then start the INSERT function.

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.

When the COUNTRY setting is FRANCE:
Choose "CH1", "CH2", "CC1" or "CC2".

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.

Note:

- 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

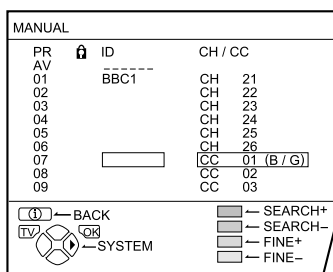
Preparation:

- As long as you register the TV channel (SECAM-L system) from a French station, be sure to set the COUNTRY setting to FRANCE. If the COUNTRY setting is not FRANCE, follow the description "Changing the COUNTRY setting" on page 33 to change the COUNTRY setting to FRANCE, then start the MANUAL function.

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.



To cancel the MANUAL function:

Press the ⓘ (Information) button.

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

TV channel (SECAM-L system) from a French station:

Set the SYSTEM to "L". If it is set to one other than "L", you cannot receive the TV channel of the SECAM-L system.

Other TV channels:

If you do not know the correct broadcasting system, set the SYSTEM to "B/G". If "B/G" is not correct, it results in the fact that you will not hear the sound normally when the TV detects a TV channel. In this case, retry to set the SYSTEM again correctly so that no problem arises.

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.

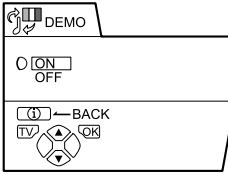
If you cannot hear the normal sound even when the picture of the TV channel appears normally:

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.

DEMO



D0036-EN

To display the DEMO menu:

- 1 Press the OK button to display MENU (main menu).**
- 2 Press the ▼/▲ button to choose DEMO. Then press the OK button.**

The DEMO function automatically demonstrates some of the TV functions.

- 1 Press the ▼/▲ buttons to choose ON.**
- 2 Press the OK button to complete the settings.**

The DEMO function is set to ON, and the demonstration will start.

To stop the demonstration:

Press one of the buttons on the remote control.

When the DEMO function is set to ON:

Each time the TV is turned on, the demonstration starts automatically. If you do not want that to happen, perform the following operations to cancel the DEMO function:

- 1 Display the DEMO menu again.**
- 2 Press the ▼/▲ buttons to choose OFF.**
- 3 Press the OK button to cancel the DEMO function.**

ADDITIONAL MENU OPERATIONS

■ Using the ACI function

This TV has an ACI function which decodes the ACI (automatic Channel Installation) data. Using the ACI function allows all TV channels transmitted from the cable TV station to be properly registered quickly according to the data from the cable TV station.

Caution:

- If your cable TV station broadcasts ACI data and if "ACI START/ACI SKIP" appears in the AUTO PROGRAM menu, the ACI function is enabled. In all other cases, it is disabled.

- 1 Press the ▼/▲ button to choose ACI START. Then press the OK button to start the ACI function.

When you don't want to use the ACI function:

Press the ▼/▲ button to choose ACI SKIP and then press the OK button.

If the AUTO PROGRAM menu changes to another menu:

Depending on your cable TV station, there may be a broadcast selection menu set up by the cable TV station.

Follow the menu indications and use the ◀/▶ and ▼/▲ buttons to operate the menu. After you have made the setting, press the OK button.

If "ACI ERROR" is displayed in the AUTO PROGRAM menu:

"ACI ERROR" denotes that the ACI function is not working properly. Press the OK button to start the ACI function again.

If "ACI ERROR" still appears even after you have tried to start the ACI function several times, press the ▶ button to start the AUTO PROGRAM function. It does not cause any problem because all the TV channels are registered to the Programme numbers (PR) by the AUTO PROGRAM function.

- 2 When the settings are completed, the EDIT menu is displayed. Return to the instructions that you were reading before, and continue the operation.

When the "Initial Settings" has been made:

Return to step 6 of "Initial Settings" on page 4.

When the "AUTO PROGRAM" has been made:

Return to step 4 of "AUTO PROGRAM" on page 27.

Note:

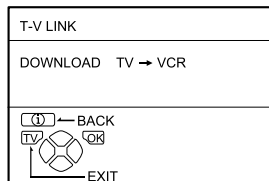
- If you have any questions about the items in the Broadcast Selection menu or how to operate the menu, please contact your cable TV station.
- When the cable TV broadcast reception is poor, the ACI function will not work properly.
- If there is an error in the ACI data itself, the TV channel cannot be registered properly. If this happens, turn the ACI function off (ACI SKIP) and use the AUTO PROGRAM function. Alternatively, use the EDIT/MANUAL function to correct the Programme number (PR) setting.

■ Downloading the data to VCR

You can transmit to the latest Programme numbers (PR) data to the VCR with the T-V LINK function.

Caution:

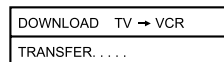
- Only when the T-V LINK compatible VCR is connected to the EXT-2 terminal, this operation is enabled.
- Only when the T-V LINK menu is being displayed, this operation is enabled.



D0005-EN

- 1 Turn on the VCR.
- 2 Press the OK button.

The data transmission begins.



D0037-EN

The T-V LINK menu disappears once the data transmission ends.

When the T-V LINK menu is changed over to another menu:

The menu operation at the TV side is completed and it is shifted to the menu operation at the VCR side. Refer to the VCR Instruction Manual and operate the VCR.

Note:

- If "FEATURE NOT AVAILABLE" appears at the T-V LINK menu, ensure the following three items are correct; then press the OK button to retry data transmission.
 - Has the T-V LINK compatible VCR been connected to the EXT-2 terminal?
 - Has the VCR power been turned on?
 - Does the SCART cable that is connected to the EXT-2 terminal to T-V LINK compatible VCR have all proper connections?

■ Changing the COUNTRY setting

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

When registering the TV channels for French broadcast stations (SECAM-L system), perform this operation to change the country.

- 1 Display the INSTALL menu.

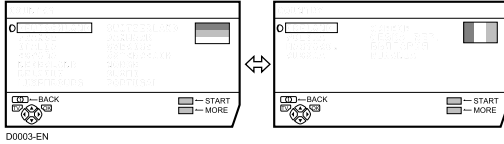
When the EDIT menu is currently being displayed:

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

ADDITIONAL MENU OPERATIONS

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

A COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY as follows:



3 Press the ◀/▶ and the ▼/▲ buttons to choose a country.

4 Press the OK button to complete the setting.

The menu disappears.

To return to the INSTALL menu from the COUNTRY menu:

Press the **i** (Information) button instead of the OK button.

■ Using the DECODER (EXT-2) function

When connecting a Decoder with a T-V LINK compatible VCR connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

1 Turn on the Decoder power.

2 Display the TV channel capable of being unscrambled with the Decoder on the TV.

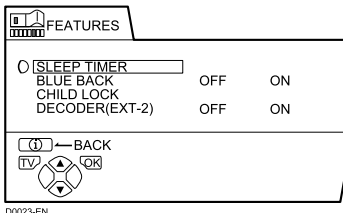
Even if the Decoder is functioning, a scrambled picture appears at this time.

3 Press the OK button to display the MENU.

The MENU (main menu) appears.

4 Press the ▼/▲ buttons to choose FEATURES. Then press the OK button.

The FEATURES menu appears.



5 Press the ▼/▲ buttons to choose DECODER (EXT-2). Then press the ◀/▶ buttons to choose ON.

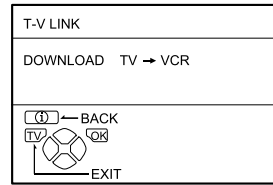
An unscrambled picture appears.

To cancel the DECODER (EXT-2) function:

Press the ◀/▶ buttons to choose OFF.

6 Press the OK button to complete the setting.

The T-V LINK menu appears.



7 Follow the operating procedure “Downloading the data to VCR” on page 33 to transmit the Programme number (PR) data to the VCR.

8 If you have another TV channel capable of being unscrambled with a Decoder, repeat steps 2 through 7.

Note:

- If for some reason the DECODER (EXT-2) function has been set to “ON” but the TV channel cannot be unscrambled, check the following:
 - Has the Decoder been connected to the VCR properly according to the VCR and Decoder Instruction Manuals?
 - Has the Decoder power been turned on?
 - Can the TV channel be unscrambled with a Decoder?
 - Is it necessary to change the VCR settings in order to connect the Decoder? Confirm that the VCR is set properly by rechecking the VCR Instruction Manual.

ADDITIONAL PREPARATION

■ Connecting the external devices

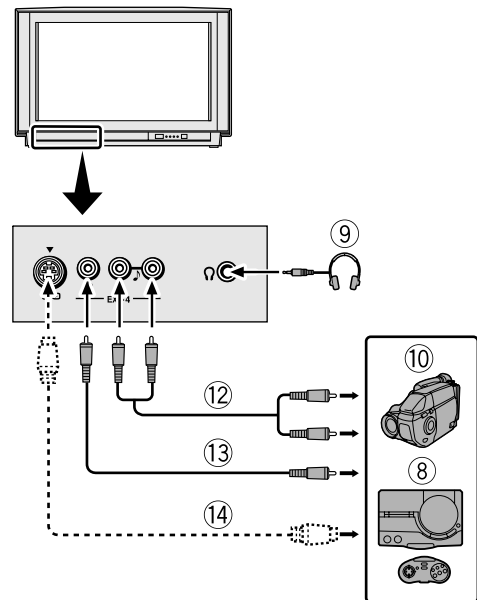
Connect the devices to the TV, paying attention to the following connection diagram.

Before connecting anything:

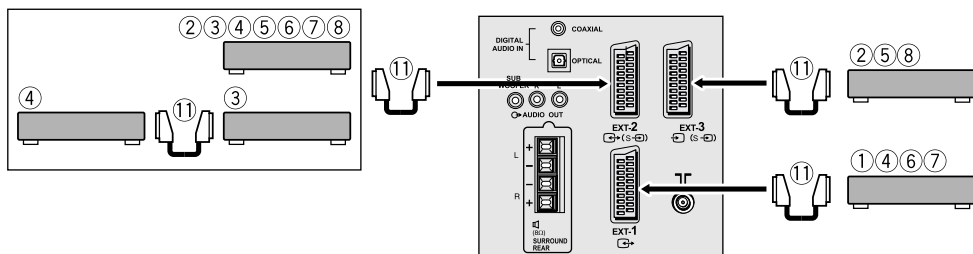
- Read the manuals provided with the devices. Depending on the devices, the connection method may differ from the figure. In addition, the device settings may be changed depending on the connection method to secure proper operation.
- Turn off all the devices including the TV.
- The "SPECIFICATIONS" on page 43 contains the details of the EXT terminals. If you are connecting a device not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Note that connecting cables are not supplied.

- ① VCR (composite signal)
- ② VCR (composite signal/S-VIDEO signal)
- ③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
- ④ Decoder
- ⑤ DVD player (composite signal/S-VIDEO signal)
- ⑥ DVD player (composite signal/RGB signal)
- ⑦ TV game (composite signal/RGB signal)
- ⑧ TV game (composite signal/S-VIDEO signal)
- ⑨ Headphones
- ⑩ Camcorder (composite signal/S-VIDEO signal)
- ⑪ SCART cable
- ⑫ Audio cable
- ⑬ Video cable
- ⑭ S-VIDEO cable

Behind the Cover



Back of the TV



Devices which can output the S-VIDEO signal (Y/C signal) such as a S-VHS VCR

Connect the device to an EXT terminal other than the EXT-1 terminal.

You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details of how to operate the device, see "S-IN (S-VIDEO input)" on page 23.

T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the EXT-2 terminal. If not, the T-V LINK function will not work properly.

Note:

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the Decoder to the VCR. If not, the T-V LINK function may not work properly. After you have registered TV channels to the Programme numbers (PR), set the DECODER (EXT-2) function for the Programme number (PR) to ON in order to unscramble a scrambled TV channel. For details of operation, see "Using the DECODER (EXT-2) function" on page 34.

Connecting headphones

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

Video/sound signal output from the EXT-2 terminal

You can arbitrarily change over the output of the video/sound signal from the EXT-2 terminal. It is useful when you want to dub the video/sound from another device on the VCR connected to the EXT-2 terminal. For details on how to do this operation, see "DUBBING" on page 24.

TV output from the EXT-1 terminal

The output of video/sound signal of a TV channel you are currently viewing is always output from the EXT-1 terminal.

Note:

- Changing over a Programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

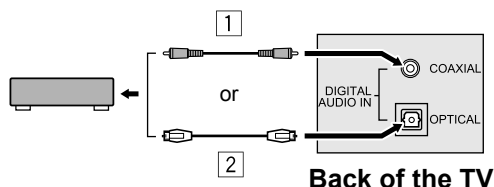
■ Listening to Dolby Digital audio

In order to listen to Dolby Digital audio which is recorded as a Dolby Digital programme source (such as a DVD-video disc), connect the device and set the DIGITAL-IN as described below.

Preparation:

- A device (such as DVD player) with a digital output terminal (coaxial or optical) for Dolby Digital is necessary.
- A coaxial cable or optical cable is necessary to make the connections. (Not supplied with the TV)
- In accordance with the instruction manual which is supplied with the device, correctly connect a coaxial cable or optical cable to the device's DIGITAL OUT (digital output) terminal and set the device so that the Dolby Digital audio signal is output.
- Correctly connect the device to the EXT terminal in accordance with "Connecting the external devices" on page 35. However, since the EXT-4 terminal does not work with Dolby Digital audio, it cannot be used.

1 Connect the device to the DIGITAL AUDIO IN terminal with a coaxial cable 1 or optical cable 2.



2 Connect the device and set the EXT terminal to DIGITAL-IN in accordance with "DIGITAL-IN" on page 23.

This completes the preparation.

Note:

- When an optical input and coaxial input are input simultaneously, the optical input takes precedence.
- When the headphones are used, the sound becomes normal stereo.
- This TV does not work with digital audio signals other than Dolby Digital audio. If no sound is emitted from the speakers, cancel the DIGITAL-IN setting and change to normal analog sound.
- The sound from the EXT terminal set to DIGITAL-IN is not output from the EXT-2 terminal.

■ Using additional audio equipments

After correctly connecting audio equipments to the TV, use the TV menu to correctly set the functions of the audio equipments.

1 Connect the audio equipments to the TV.

Before connecting anything:

- Read the manuals that came with the audio equipment.
- Do not turn the power of the TV or audio equipments on until the connections have been completed.
- If the additional speakers are placed immediately next to the TV, use magnetic-shielded speakers in order to prevent magnetism from the speakers adversely effecting the TV.

Note:

- Connecting cables are not supplied.
- The audio signal output from the AUDIO OUT terminal cannot be stopped. When you want to stop the sound from being emitted from the additional speaker systems, turn the amplifier's power off.

Surround speakers 1:

Connect surround speakers to the TV when you want to use the DOLBY DIGITAL function to enjoy surround sound.

- Even without surround speakers, you can easily enjoy surround sound by using the 3D-PHONIC function.
- Use impedance 8-ohm type.
- Pay attention to the positive (+) and negative (-) polarities when connecting surround speakers to your TV.
- For the best effect, position the surround speakers at least 1 metre above the heads of seated viewers.

Front speaker system

(Front L/R speakers 2 and amplifier 3):

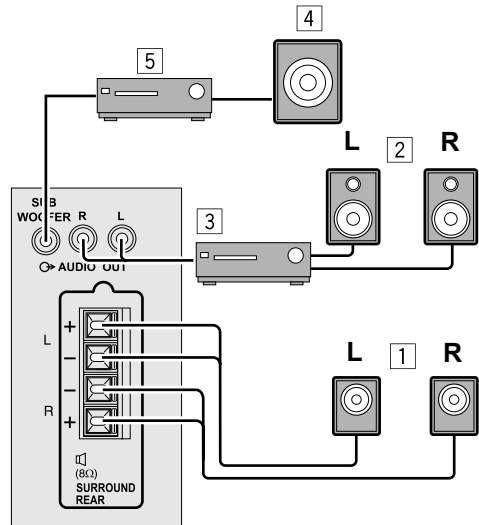
You can use your hi-fi audio system speakers instead of the TV speakers.

Subwoofer system

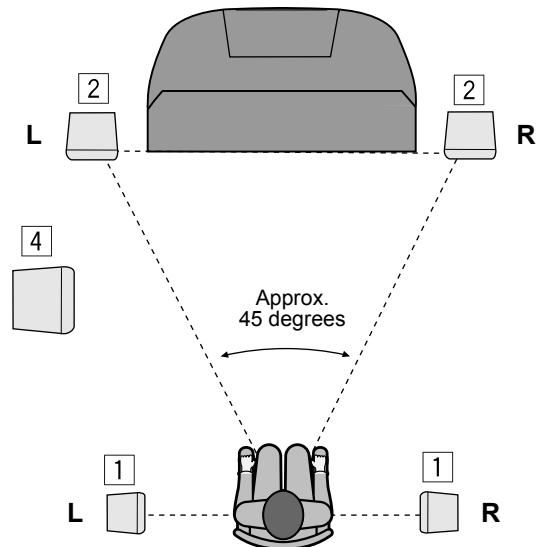
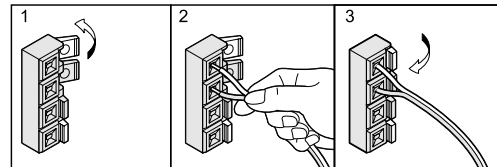
(Subwoofer 4 and amplifier 5):

Using the subwoofer system improves the playing performance of the low sounds.

- It is particularly effective with the low frequency effects (LFE) included in 5.1-channel Dolby Digital surround sound.



Back of the TV



Positioning of speakers

ADDITIONAL PREPARATION

2 Set the following functions (A to D) correctly depending on the speakers you want to use.

A: **SPEAKER function**

Stop the sound from being emitted from the TV speakers.

Correctly perform the settings in accordance with "SPEAKER" on page 18.

B: **TV SPEAKER function**

When using the 3D-PHONIC function or DOLBY DIGITAL function, all the TV speakers work as centre speakers.

Correctly perform the settings in accordance with "3D-PHONIC setting" on page 21 and "DOLBY DIGITAL setting" on page 21.

- Note that the function explained here is different to the TV SPEAKER function in the HEADPHONE menu.
- When the TV SPEAKER function in either one of the 3D-PHONIC menu or DOLBY DIGITAL menu is set, the other is automatically set.

C: **SUBWOOFER function**

When using the 3D-PHONIC function or the DOLBY DIGITAL function, the SUBWOOFER function makes the low frequency effects (LFE) included in 5.1-channel Dolby Digital surround sound more effective.

Correctly perform the settings in accordance with "SUBWOOFER" on page 19, "3D-PHONIC setting" on page 21 and "DOLBY DIGITAL setting" on page 21.

- When the SUBWOOFER function in any one of the SOUND SETTING menu, 3D-PHONIC menu or DOLBY DIGITAL menu is set, the others are automatically set.

D: **REAR SPEAKER function**

When the DOLBY DIGITAL function is used Dolby Digital programme surround sound is emitted from the surround speakers.

Correctly perform the settings in accordance with "DOLBY DIGITAL setting" on page 21.

- Note that you cannot use the DOLBY DIGITAL function to enjoy surround sound if the REAR SPEAKER function is turned OFF.

Do you use the front speaker system?

	A	B
Yes	OFF	CENTRE
No	ON	L/C/R

- In cases where you do not want to emit sound from the TV speakers set B (TV SPEAKER) to OFF.

Do you use the subwoofer system?

	C
Yes	ON
No	OFF

Do you use the surround speakers?

	D
Yes	ON
No	OFF

Note:

- By using the ◀/▶ buttons on the TV remote control or the buttons on the TV, the volume of all the speakers including those of the additional audio equipments can be adjusted simultaneously.
- If the volume of the TV speakers is different to the volume of the front speaker system or subwoofer system, adjust the volumes of each amplifier's to match that of the TV speakers.

CH/CC NUMBER

When you want to use the INSERT function on page 30, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

CH	Channel	CH	Channel	CC	Channel	CC	Channel
CH 02 / CH 202	E2, R1	CH 40 / CH 240	E40, R40	CC 01 / CC 201	S1	CC 31 / CC 231	S31
CH 03 / CH 203	E3, ITALY A	CH 41 / CH 241	E41, R41	CC 02 / CC 202	S2	CC 32 / CC 232	S32
CH 04 / CH 204	E4, ITALY B, R2	CH 42 / CH 242	E42, R42	CC 03 / CC 203	S3	CC 33 / CC 233	S33
CH 05 / CH 205	E5, ITALY D, R6	CH 43 / CH 243	E43, R43	CC 04 / CC 204	S4	CC 34 / CC 234	S34
CH 06 / CH 206	E6, ITALY E, R7	CH 44 / CH 244	E44, R44	CC 05 / CC 205	S5	CC 35 / CC 235	S35
CH 07 / CH 207	E7, ITALY F, R8	CH 45 / CH 245	E45, R45	CC 06 / CC 206	S6	CC 36 / CC 236	S36
CH 08 / CH 208	E8, R9	CH 46 / CH 246	E46, R46	CC 07 / CC 207	S7	CC 37 / CC 237	S37
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47, R47	CC 08 / CC 208	S8	CC 38 / CC 238	S38
CH 10 / CH 210	E10, ITALY H, R10	CH 48 / CH 248	E48, R48	CC 09 / CC 209	S9	CC 39 / CC 239	S39
CH 11 / CH 211	E11, ITALY H+1, R11	CH 49 / CH 249	E49, R49	CC 10 / CC 210	S10	CC 40 / CC 240	S40
CH 12 / CH 212	E12, ITALY H+2, R12	CH 50 / CH 250	E50, R50	CC 11 / CC 211	S11	CC 41 / CC 241	S41
CH 21 / CH 221	E21, R21	CH 51 / CH 251	E51, R51	CC 12 / CC 212	S12	CC 75 / CC 275	X
CH 22 / CH 222	E22, R22	CH 52 / CH 252	E52, R52	CC 13 / CC 213	S13	CC 76 / CC 276	Y, R3
CH 23 / CH 223	E23, R23	CH 53 / CH 253	E53, R53	CC 14 / CC 214	S14	CC 77 / CC 277	Z, ITALY C, R4
CH 24 / CH 224	E24, R24	CH 54 / CH 254	E54, R54	CC 15 / CC 215	S15	CC 78 / CC 278	Z+1, R5
CH 25 / CH 225	E25, R25	CH 55 / CH 255	E55, R55	CC 16 / CC 216	S16	CC 79 / CC 279	Z+2
CH 26 / CH 226	E26, R26	CH 56 / CH 256	E56, R56	CC 17 / CC 217	S17		
CH 27 / CH 227	E27, R27	CH 57 / CH 257	E57, R57	CC 18 / CC 218	S18		
CH 28 / CH 228	E28, R28	CH 58 / CH 258	E58, R58	CC 19 / CC 219	S19		
CH 29 / CH 229	E29, R29	CH 59 / CH 259	E59, R59	CC 20 / CC 220	S20		
CH 30 / CH 230	E30, R30	CH 60 / CH 260	E60, R60	CC 21 / CC 221	S21		
CH 31 / CH 231	E31, R31	CH 61 / CH 261	E61, R61	CC 22 / CC 222	S22		
CH 32 / CH 232	E32, R32	CH 62 / CH 262	E62, R62	CC 23 / CC 223	S23		
CH 33 / CH 233	E33, R33	CH 63 / CH 263	E63, R63	CC 24 / CC 224	S24		
CH 34 / CH 234	E34, R34	CH 64 / CH 264	E64, R64	CC 25 / CC 225	S25		
CH 35 / CH 235	E35, R35	CH 65 / CH 265	E65, R65	CC 26 / CC 226	S26		
CH 36 / CH 236	E36, R36	CH 66 / CH 266	E66, R66	CC 27 / CC 227	S27		
CH 37 / CH 237	E37, R37	CH 67 / CH 267	E67, R67	CC 28 / CC 228	S28		
CH 38 / CH 238	E38, R38	CH 68 / CH 268	E68, R68	CC 29 / CC 229	S29		
CH 39 / CH 239	E39, R39	CH 69 / CH 269	E69, R69	CC 30 / CC 230	S30		

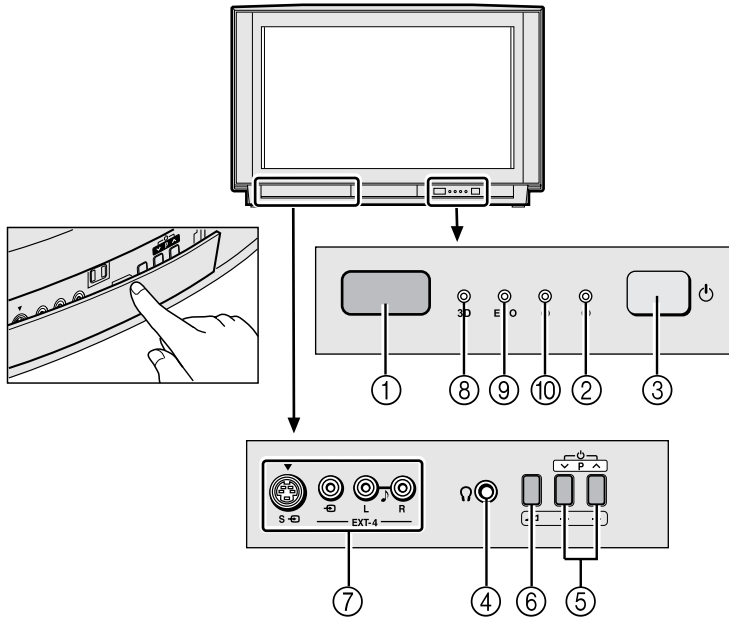
CH	Channel	CH	Channel	CC	Frequency (MHz)	CC	Frequency (MHz)
CH 102	F2	CH 141	F41	CC 110	116 - 124	CC 152	391 - 399
CH 103	F3	CH 142	F42	CC 111	124 - 132	CC 153	399 - 407
CH 104	F4	CH 143	F43	CC 112	132 - 140	CC 154	407 - 415
CH 105	F5	CH 144	F44	CC 113	140 - 148	CC 155	415 - 423
CH 106	F6	CH 145	F45	CC 114	148 - 156	CC 156	423 - 431
CH 107	F7	CH 146	F46	CC 115	156 - 164	CC 157	431 - 439
CH 108	F8	CH 147	F47	CC 116	164 - 172	CC 158	439 - 447
CH 109	F9	CH 148	F48	CC 123	220 - 228	CC 159	447 - 455
CH 110	F10	CH 149	F49	CC 124	228 - 236	CC 160	455 - 463
CH 121	F21	CH 150	F50	CC 125	236 - 244	CC 161	463 - 469
CH 122	F22	CH 151	F51	CC 126	244 - 252		
CH 123	F23	CH 152	F52	CC 127	252 - 260		
CH 124	F24	CH 153	F53	CC 128	260 - 268		
CH 125	F25	CH 154	F54	CC 129	268 - 276		
CH 126	F26	CH 155	F55	CC 130	276 - 284		
CH 127	F27	CH 156	F56	CC 131	284 - 292		
CH 128	F28	CH 157	F57	CC 132	292 - 300		
CH 129	F29	CH 158	F58	CC 133	300 - 306		
CH 130	F30	CH 159	F59	CC 141	306 - 311		
CH 131	F31	CH 160	F60	CC 142	311 - 319		
CH 132	F32	CH 161	F61	CC 143	319 - 327		
CH 133	F33	CH 162	F62	CC 144	327 - 335		
CH 134	F34	CH 163	F63	CC 145	335 - 343		
CH 135	F35	CH 164	F64	CC 146	343 - 351		
CH 136	F36	CH 165	F65	CC 147	351 - 359		
CH 137	F37	CH 166	F66	CC 148	359 - 367		
CH 138	F38	CH 167	F67	CC 149	367 - 375		
CH 139	F39	CH 168	F68	CC 150	375 - 383		
CH 140	F40	CH 169	F69	CC 151	383 - 391		

Note:

- When two CH/CC numbers correspond to one Channel number, choose either one according to the current COUNTRY setting. When the COUNTRY setting is other than FRANCE, choose a two-digit CH/CC number. When the COUNTRY setting is FRANCE, choose a three-digit CH/CC number.
- Find the CH/CC number (CC110 to CC161) corresponding to the TV channel (SECAM-L system) from a French cable TV station, based on the broadcast frequency of the TV channel. When you do not know the broadcast frequency, please contact the cable TV station.
- The CH/CC numbers of CH102-CH169 and CC110-CC161 correspond to the TV channels being broadcast by a SECAM-L system. The other CH/CC numbers correspond to the TV channels being broadcast by a method other than a SECAM-L system.

TV BUTTONS AND PARTS

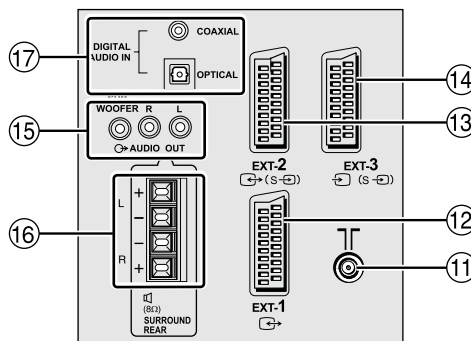
■ Front Panel



- ① Remote control sensor and ECO sensor
- ② Power lamp pages 3 and 6
- ③ Main power button pages 3 and 6
- ④ Headphone jack (mini jack) page 35
- ⑤ P V/∧ Buttons / -/+ buttons page 8

- ⑥ (Volume) button page 8
- ⑦ EXT-4 terminal pages 23 and 35
- ⑧ 3D lamp
The 3D lamp lights while the 3D-PHONIC function is in use.
- ⑨ ECO lamp
If you set the ECO MODE function to ON, the ECO lamp lights.
- ⑩ SLEEP TIMER lamp
The SLEEP TIMER lamp lights while the SLEEP TIMER function is operating.

■ Rear Panel



- ⑪ Aerial socket page 2
- ⑫ EXT-1 terminal pages 2, 23 and 35
- ⑬ EXT-2 terminal pages 2, 5, 23 and 35
- ⑭ EXT-3 terminal pages 23 and 35

- ⑮ AUDIO OUT terminal page 37
- ⑯ SURROUND REAR terminal page 37
- ⑰ DIGITAL AUDIO IN terminal page 36

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 connected to the AC outlet?
- Is the Power lamp lit? If not, press the Main power button.

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 25 to try to change the BLUE BACK function setting to OFF.
- Have you connected the headphones to the TV? Connecting the headphones to the TV causes sounds not to be issued from the TV speakers.
- Have you set the SPEAKER function to OFF? Follow the description "SPEAKER" on page 18 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 28 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 17 to try to solve the trouble.
- Has COLOUR or BRIGHT been controlled properly? Follow the description "Picture Adjustment" on page 15 to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.

- When a white and bright still image (such as a white dress) is displayed on the screen, the white part may look as if it were coloured. It is a phenomenon unavoidable due to the nature of the picture tube itself, and not due to a TV failure. When the picture disappears from the screen, the unnatural colours will also disappear.
- 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 18 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 18 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 Batteries into the Remote Control" on page 2 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 operation becomes disabled suddenly, press the Main power button on the TV and turn off the main power. Try to press the Main power button again to turn on the main power. If the TV returns to a normal state, it is not a failure.
- Use the HEADPHONE function to adjust the volume of the headphones. For details, refer to "HEADPHONE" on page 19.

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.*
- *If you bring a magnetised device such as a speaker near to your TV, a picture may be warped or unnatural colors appear at the corners of the screen. In this case, keep the device apart from your TV. If the speakers causes such phenomena, use the magnetic-shielded speakers instead.*
- *A picture may be tilted due to the influence of the earth's magnetism. In this case, use the "PICTURE TILT" on page 17 to complete the tilt.*
- *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.*
- *Touching the screen may cause you feel a slight electric shock due to its static electricity. It is an unavoidable phenomenon due to the construction of the picture tube. It is not a problem with the TV. You can rest assured that this static discharge does not have harmful influence over the human body.*

SPECIFICATIONS

Item	Model	AV32Z10EU*
Broadcasting systems		CCIR B/G, I, D/K, L
Colour systems		PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies		• E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, ITALY A-H, ITALY H+1, ITALY H+2, F2-F10, F21-F69, R1-R12, R21-R69 • French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz
Sound-multiplex systems		A2 (B/G, D/K), NICAM (B/G, I, D/K, L) system
Teletext systems		FLOF (Fastext), TOP, WST (World Standard System)
Power requirements		220 - 240 V AC, 50 Hz
Power consumption		Maximum: 293 W, Average: 153 W, Standby: 2.8 W
Picture tube size		Viewable area 76 cm (measured diagonally)
Audio output		Rated Power output: 20 W + 20 W + 5 W
Speakers		10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm) oval × 1
EXT-1 terminal		Euroconnector (21-pin, SCART) • Video input, Audio L/R inputs and RGB inputs are available. • TV broadcast outputs (Video and Audio L/R) are available.
EXT-2 terminal		Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.
EXT-3 terminal		Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
EXT-4 terminal		RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
AUDIO OUT terminal		RCA connectors × 3 • Variable audio L/R outputs and subwoofer output are available. • Variable out 0-1 Vrms, low impedance
SURROUND REAR terminal		Speaker terminals for external for surround speakers. • Surround rear sounds are output to the speakers. • For impedance 8-ohm speakers only. • Rated power output: 7.5 W + 7.5 W
DIGITAL AUDIO IN terminal		Coaxial connector × 1 Optical connector × 1 • Dolby Digital is available.
Headphone jack		Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)		855 mm × 550 mm × 568 mm
Weight		56.9 kg
Accessories		Remote control unit × 1 (RM-C58 (Silver) or RM-C52 (Black) is supplied.) AAA/R03 dry cell battery × 2

* A basic model number. The actual model number may have characters added (such as "S" denoting silver) indicating the colour of the TV set.

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.

