



JVC

InteríArt

AV-32T4SA

T-V LINK

COLOUR TELEVISION

INSTRUCTIONS

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:

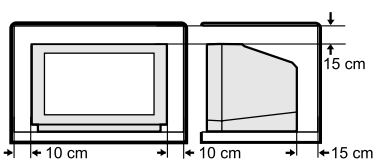
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.
- 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.

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.



Failure to heed the following precautions may result in damage to the TV or remote control.

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

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

DO NOT place anything on top of the TV.

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

DO NOT allow objects or liquid into the cabinet openings.

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

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

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.

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.

CONTENTS

Setting up your TV	3	SOUND menu	21
Connecting the aerial and VCR	3	STEREO / I • II	21
Connecting the power cord to the AC outlet.....	4	BASS.....	21
Putting the batteries into the Remote control.....	4	TREBLE	21
Initial settings	4	BALANCE	21
T-V LINK functions.....	7	HYPER SOUND.....	21
TV buttons and functions.....	8	FEATURES menu.....	22
Turn the Main power on.....	8	SLEEP TIMER	22
Turn the TV on from standby mode	8	BLUE BACK.....	22
Choose a TV channel	8	CHILD LOCK.....	22
Adjust the volume	8	SET UP menu	24
Remote control buttons and functions..	9	AUTO PROGRAM.....	24
Turn the TV on or off from standby mode..	9	EDIT/MANUAL	24
Choose a TV channel and watch images from external devices.....	10	LANGUAGE	28
Adjust the volume	11	DECODER (EXT-2).....	28
Information function	11	EXT SETTING.....	29
ZOOM function.....	11	PICTURE TILT	31
HYPER SOUND function.....	13	Additional preparation	32
Return to TV channel instantly.....	13	Connecting the external devices	32
Operating a JVC brand VCR or DVD player.....	13	CH/CC numbers	34
Teletext function	14	Troubleshooting	35
Basic operation	14	Specifications	37
Using the List Mode	14		
Hold.....	15		
Sub-page	15		
Reveal.....	15		
Size	15		
Index.....	15		
Cancel.....	16		
Using the TV's menu.....	17		
Basic operation	17		
PICTURE menu.....	18		
PICTURE MODE	18		
CONTRAST	18		
BRIGHT	18		
SHARP.....	18		
COLOUR.....	18		
HUE	18		
COLOUR TEMP.....	18		
FEATURES.....	19		

Setting up your TV

Caution

- Turn off all the equipment including the TV before connecting anything.

Connecting the aerial and VCR

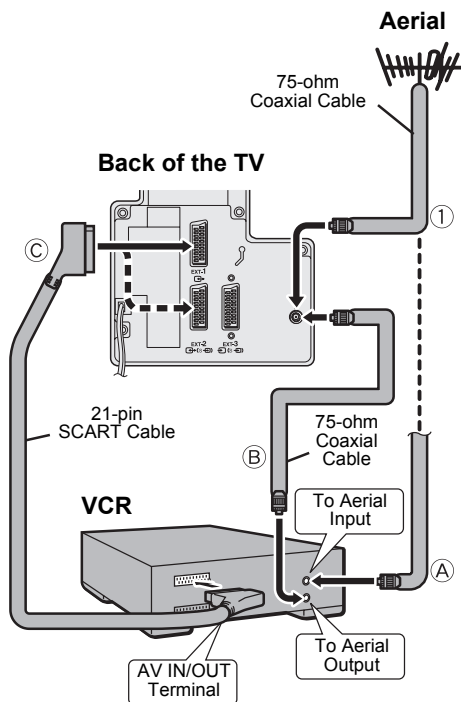
- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

■ If connecting a VCR, follow ① → ② → ③.

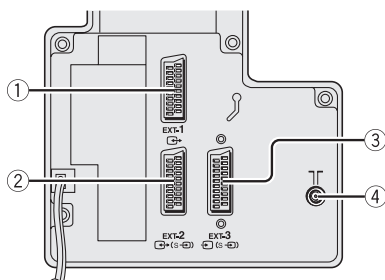
■ If not connecting a VCR, follow ①.

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 7.

- A video can be viewed from the VCR without performing ③. For details, refer to your VCR instruction manual.
- To connect additional external devices, please see “Connecting the external devices” on page 32.
- When a decoder is connected to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see “DECODER (EXT-2)” on page 28. Otherwise, you will not be able to view scrambled channels.



■ Rear Panel



- ① EXT-1 terminal (pages 3, 29, 32)
- ② EXT-2 terminal (pages 3, 7, 29, 32)
- ③ EXT-3 terminal (pages 29, 32)
- ④ Aerial socket (page 3)

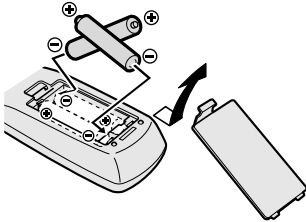
Connecting the power cord to the AC outlet

Caution

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

Putting the batteries into the Remote control

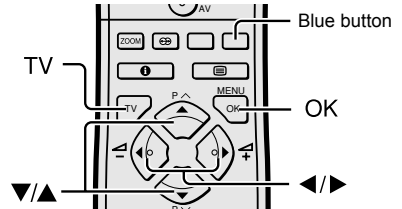
Use two AA/R6 dry cell batteries. Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



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

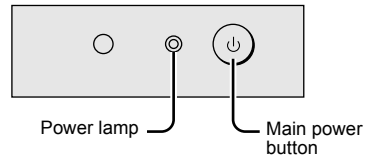
Initial settings

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

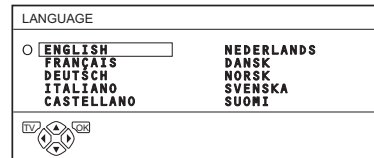
The Power lamp lights red and the JVC logo is displayed.



- The JVC logo appears only once when your TV has been turned on. In this case, use the “LANGUAGE” and “AUTO PROGRAM” functions to make the initial settings. For details, see “SET UP menu” on page 24.

2 Press the OK button

The LANGUAGE menu appears.

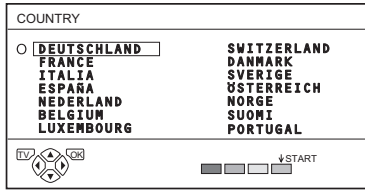


D0002(E)-EN

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:



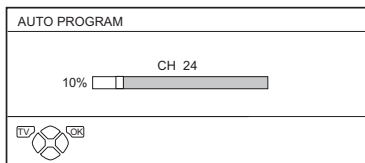
D0003-EN

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

- If you are located in Australia, we recommend you to choose DEUTSCHLAND.

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).

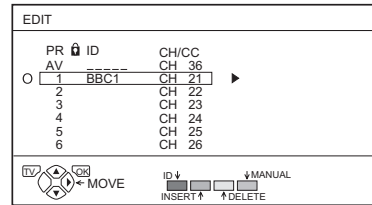


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- To cancel the AUTO PROGRAM function:
Press the **TV** button.



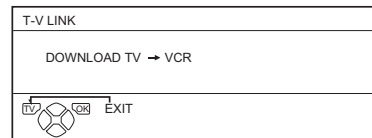
After the TV channels have been registered in the Programme numbers (PR), the EDIT menu appears



D0038-EN

- You can proceed to edit the Programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 24.
- If you do not need to use the EDIT/MANUAL function, go to the next step.

6 Press the OK button to display the T-V LINK menu



D0005-EN

If you do not have a T-V LINK compatible VCR connected:

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

The T-V LINK menu disappears.

If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:

Follow the operating procedure “Downloading the data to VCR” on page 6 to transmit the Programme number (PR) data.

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

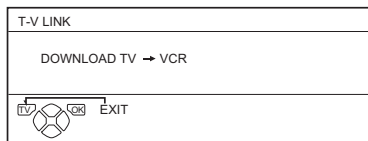
- When your TV can detect the TV channel name from the TV channel broadcast signal, it automatically registers the TV channel name (ID) to the Programme number (PR) in which the TV channel has been registered.
- If a TV channel you want to view is not set to a Programme number (PR), manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 24.
- 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 24.

■ Downloading the data to VCR

You can transmit 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.

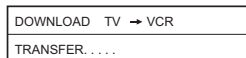


D0005-EN

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 TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

If “FEATURE NOT AVAILABLE” appears at the T-V LINK menu:

Check the following three items. Then press the ◀ 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?

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.

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.

- 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

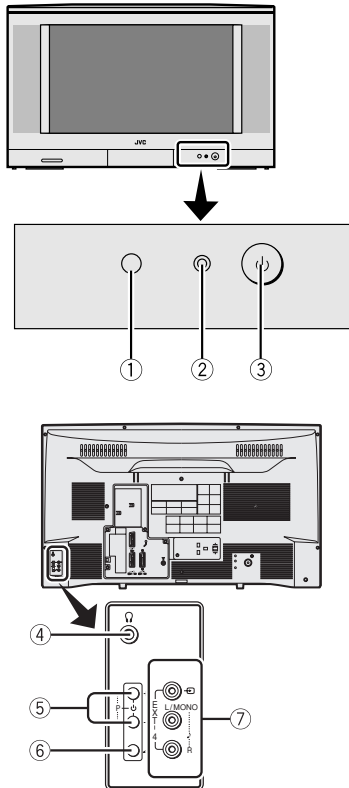
“What You See Is What You Record”

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.
- When the VCR is not ready (for example, when there is no tape inserted), “NO RECORDING” is displayed.
- 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 buttons and functions



Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (pages 4, 8)
- ③ Main power button (pages 4, 8)
- ④ Headphone jack (mini jack) (page 32)
- ⑤ P V/∧ buttons/ -/+ buttons (page 8)
- ⑥ \blacktriangleleft (Volume) button (page 8)
- ⑦ EXT-4 terminal (pages 29, 32)

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.

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 P V/∧ buttons to turn the TV on from standby mode

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

Choose a TV channel

Press the P V/∧ buttons to choose a programme number (PR) or an EXT terminal

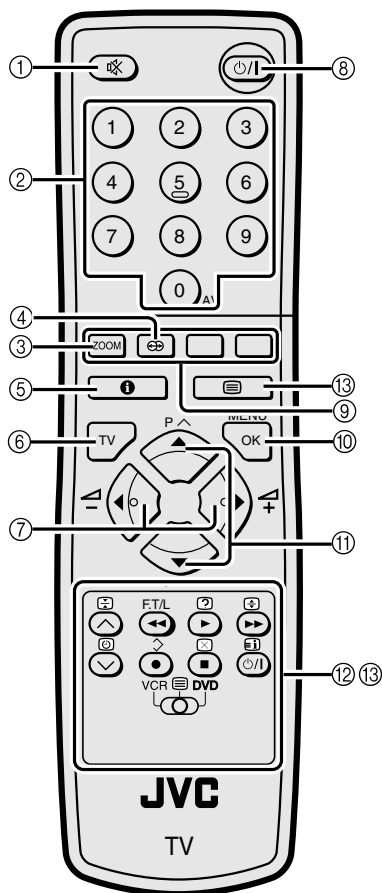
Adjust the volume

1 Press the \blacktriangleleft (Volume) button

The volume level indicator appears.

2 Press the -/+ buttons while the volume level indicator is displayed

Remote control buttons and functions



- ① Muting button
- ② Number buttons
- ③ **ZOOM** button
- ④ (hyper sound) button
- ⑤ Information button
- ⑥ **TV** button
- ⑦ ◀▶ buttons
- ⑧ ⏻/⏼ (standby) button
- ⑨ Colour buttons
- ⑩ **OK** button
- ⑪ ▼▲ buttons
- ⑫ VCR/DVD/Teletext control button
- ⑬ VCR ≡ DVD switch ≡ (text) button

Turn the TV on or off from standby mode

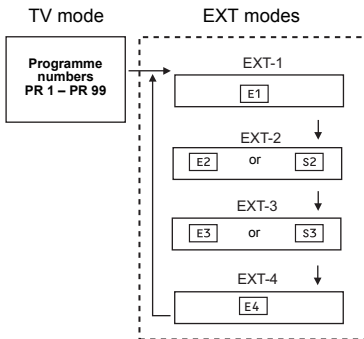
Press the ⏻/⏼ (standby) button to turn the TV on or off.

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

- The power can be turned on by pressing the **TV** button, ▼▲ buttons or number buttons.

Choose a TV channel and watch images from external devices

- If the picture is tilted, correct it. See “PICTURE TILT” on page 31.
- **Use the number buttons:**
Enter the programme number (PR) of the channel using the number buttons.
 Example:
 - PR 6 → press **6**
 - PR 12 → press **1** and **2**
- **Use the ▼/▲ buttons:**
Press the ▼/▲ buttons to choose the programme number (PR) you want or an EXT terminal.
- **Use the 0 (AV) button:**
Press the 0 (AV) button to choose an EXT terminal.



- 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 (S-VIDEO input)” on page 29.
- If you do not have a clear picture or no colour appears, change the colour system manually. See “COLOUR SYSTEM” on page 19.
- If you choose 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 this function.)

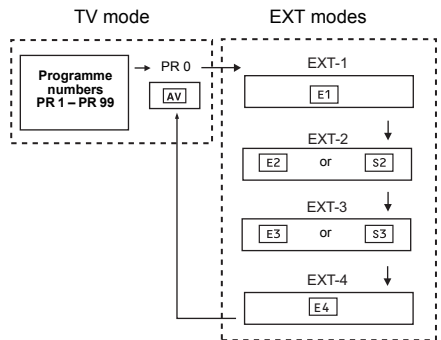
To return to a TV channel:

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 24.

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



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

Adjust the volume

Press the ◀/▶ buttons to adjust the volume.

The Volume indicator appears and the volume changes as you press the ◀/▶ buttons.

■ Muting the sound

Press the 🔇 (muting) button to turn off the sound.

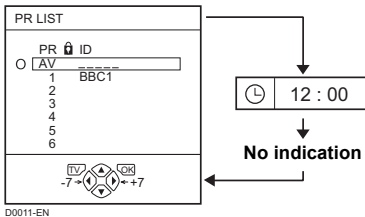
Pressing the 🔇 (muting) button again restores the previous volume level.

Information function

You can see the current time or the PR LIST. From the PR LIST, you can choose a channel or EXT terminal.

Press the ⓘ (Information) button to display the information you want to see.

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



Time display:

The current time of the teletext data is displayed.

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.

- An incorrect current time is sometimes displayed when watching videos.

PR LIST:

The programme number (PR) and EXT terminal list is displayed.

Pressing the OK button after choosing the programme number (PR) or EXT terminal with the ◀/▶/▼/▲ buttons will display the chosen programme or EXT terminal.

- For programme numbers (PR) for which the CHILD LOCK function is set, the Ⓜ (CHILD LOCK) mark is displayed. For details see “CHILD LOCK” on page 22.

ZOOM function

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

AUTO:

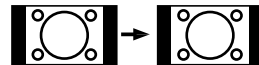
When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.

If a WSS signal is not included, the picture is displayed in accordance with the ZOOM mode set with the 4:3 AUTO ASPECT function.

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

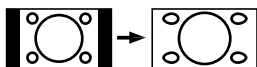
REGULAR:

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



PANORAMIC:

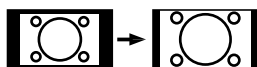
This mode stretches the left and right sides of a normal picture (4:3 Aspect Ratio) to fill the screen, without making the picture appear unnatural.



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

14:9 ZOOM:

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



16:9 ZOOM:

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



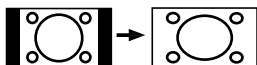
16:9 ZOOM SUBTITLE:

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



FULL:

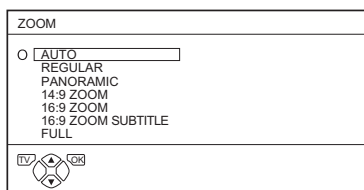
This mode uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



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

■ Choose the ZOOM mode

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



D0009-EN

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

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

The picture expands and the chosen ZOOM mode is displayed in about 3 seconds.

- 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

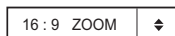
If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

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

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

HYPER SOUND function

You can enjoy sounds with a wider ambience.

Press the  (hyper sound) button to turn the HYPER SOUND function on or off

- The HYPER SOUND function does not work properly with mono sound.
- The HYPER SOUND function can be also turned on or off by using the SOUND menu. For details, see “HYPER SOUND” on page 21.
- The HYPER SOUND function works only for the audio signal output from TV channels. It cannot work for the audio signal input from EXT sources.
- The HYPER SOUND function affects the audio signal output from the EXT-1 and EXT-2 terminals. If you want to output the normal audio signal from the EXT terminals, turn the HYPER SOUND function off.

Return to TV channel instantly

You can return to a TV channel instantly.

Press the TV button

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

Operating a JVC brand VCR or DVD player

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

1 Set the VCR  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

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

■ To call up a stored page:

- 1 Press the **F.T/L** button to enter the List mode
- 2 Press a colour button having a stored page



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
 - 2 Press the Number buttons to enter a sub-page number

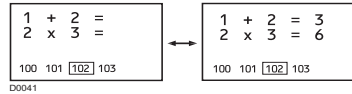
Example:

 - 3rd sub-page → press **0, 0, 0** and **3**.
- 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.

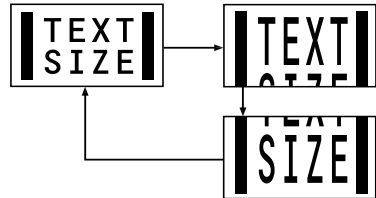
Each time you press the (Reveal) button, text is hidden or revealed



Size

You can double the height of the teletext display.

Press the (Size) button



Index

You can return to the index page instantly.

Press the (Index) button


Returns to page 100 or a previously specified page.

Cancel


You can search for a teletext page while watching TV.


1 Press the number button to enter a page number, or press a colour button

The TV searches for a teletext page.

2 Press  (Cancel) button

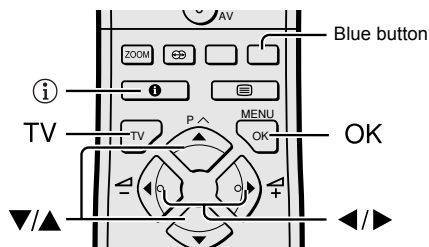
The TV programme appears.

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

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

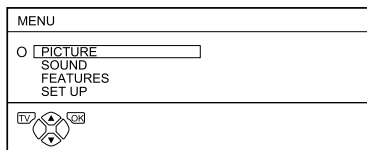
Using the TV's menu

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



Basic operation

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



D0060-EN

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

The menu appears.

To return to the previous menu:

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

To exit a menu instantly:

Press the **TV** button.

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

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

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

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



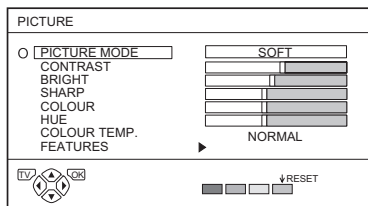
TV button OK button

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

The menu disappears.

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

PICTURE menu



D0014-EN

- While the PICTURE menu is displayed, pressing the blue button will set the CONTRAST, BRIGHT, SHARP, COLOUR, HUE settings to their default settings.

PICTURE MODE

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

BRIGHT:

Heightens contrast and sharpness.

STANDARD:

Standardizes picture adjustment.

SOFT:

Softens contrast and sharpness.

CONTRAST

You can adjust the picture contrast.

- ◀ : lower
- ▶ : higher

BRIGHT

You can adjust the picture brightness.

- ◀ : darker
- ▶ : brighter

SHARP

You can adjust the picture sharpness.

- ◀ : softer
- ▶ : sharper

COLOUR

You can adjust the picture colour.

- ◀ : lighter
- ▶ : deeper

HUE

You can adjust the picture tint.

- ◀ : reddish
- ▶ : greenish
- You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, or NTSC 4.43.

COLOUR TEMP.

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

COOL:

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

NORMAL:

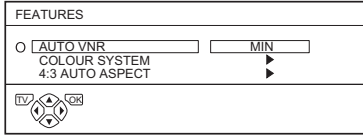
The normal white colour.

WARM:

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

FEATURES

Choose **FEATURES** and press the **OK** or **▶** button to display the sub-menu.



D1015-EN

■ AUTO VNR

VNR stands for “video noise reduction”.

AUTO:

This mode reduces any “noise” (interference or snowing) in the current picture. The function also adjusts the optimum sharpness of the picture (SHARP).

OFF:

The AUTO VNR function is cancelled. If you set the mode to AUTO but feel that the sharpness of the original picture has not been reproduced fully, change the mode to OFF. However, any noise remaining in the original picture may be emphasized.

MIN:

This mode reduces any noise irrespective of state of the picture. If you set the mode to AUTO but feel that the sharpness of the original picture has not been reproduced, change the mode MIN. However, any noise remaining in the original picture may be emphasized a little. And this may reduce the sharpness of the picture a little.

MAX:

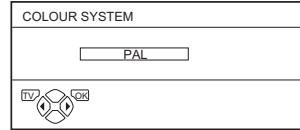
This mode always reduces any noise as much as possible, irrespective of state of the picture. When you set the mode to AUTO but still notice some noise, change the mode to MAX. However, this may reduce the sharpness of the picture.

■ COLOUR SYSTEM

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

1 Choose **COLOUR SYSTEM**. Then press the **OK** or **▶** button

The sub-menu of the COLOUR SYSTEM function appears.



D0016-EN

2 Press the **◀/▶** buttons to choose the appropriate colour system. Then press the **OK** button

PAL:

PAL system

SECAM:

SECAM system

NTSC 3.58:

NTSC 3.58 MHz system

NTSC 4.43:

NTSC 4.43 MHz system

AUTO:

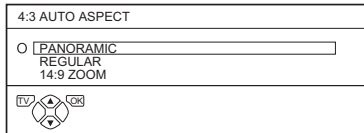
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- 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).

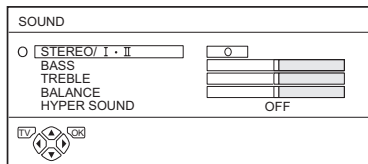
-
- 1 Choose 4:3 AUTO ASPECT then press the OK button**



D0017-EN

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

SOUND menu



STEREO / I • II

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

⊙: Stereo sound

○: mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes.

BASS

You can adjust the low tone of the sound.

- ◀: weaker
- ▶: strong

TREBLE

You can adjust the high tone of the sound.

- ◀: weaker
- ▶: strong

BALANCE

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

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

HYPER SOUND

You can enjoy sounds with a wider ambience.

ON:

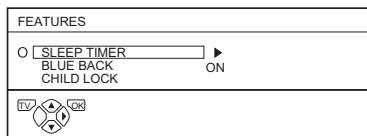
This function is turned on.

OFF:

This function is turned off. The menu disappears.

- The HYPER SOUND function does not work properly with mono sound.
- You can turn on or off the HYPER SOUND function with a single press. For details, see "HYPER SOUND function" on page 13.
- The HYPER SOUND function works only for the audio signal output from TV channels. It cannot work for the audio signal input from EXT sources.
- The HYPER SOUND function affects the audio signal output from the EXT-1 and EXT-2 terminals. If you want to output the normal audio signal from the EXT terminals, turn the HYPER SOUND function off.

FEATURES menu



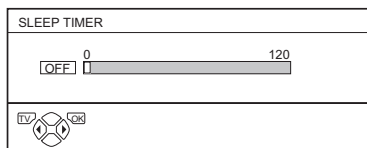
D0023-EN

SLEEP TIMER

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

1 Choose SLEEP TIMER. Then press the OK or ► button

A Sub-menu of the SLEEP TIMER function appears.



D0024-EN

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

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

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

To cancel the SLEEP TIMER function:

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

BLUE BACK

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


ON:

This function is turned on.

OFF:

This function is turned off.

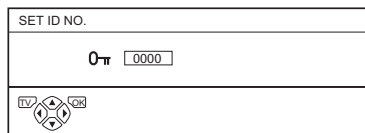
CHILD LOCK

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 Choose CHILD LOCK, then press the 0 button

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



D0025-EN

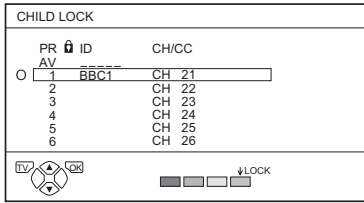
2 Set the ID number to your liking

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. Then press the **OK** button

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

To reset the CHILD LOCK function:
Press the blue button again.

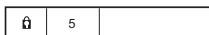
🔒 (CHILD LOCK) disappears.

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.

■ To view a locked TV channel

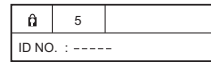
1 Choose a Programme number (PR) in which a TV channel locked with the Number buttons or PR LIST

The screen changes to blue and the **🔒** (CHILD LOCK) appears. You cannot view the TV channel.



D0027-EN

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



D0028-EN

3 Press the Number buttons to enter the ID number

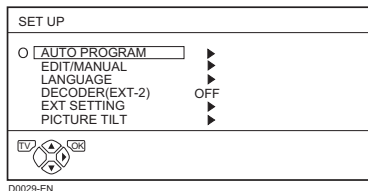
The lock is temporarily released so you can view the TV channel.

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.

- 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 **i** (Information) button.

SET UP menu

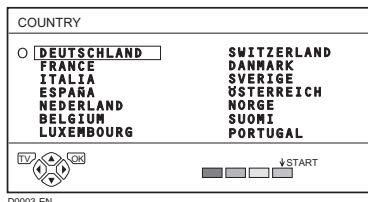


AUTO PROGRAM

The AUTO PROGRAM function TV channel automatic registration which was performed in the “Initial settings” (page 4) can be preformed again.

1 Choose **AUTO PROGRAM**, then press the **OK** or **▶** 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:



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

- If you are located in Australia, we recommend you to choose DEUTSCHLAND.

3 Perform steps 5 and 6 of the “Initial settings” (page 5)

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.

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

DELETE:

This function deletes an unnecessary TV channel.

MANUAL:

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

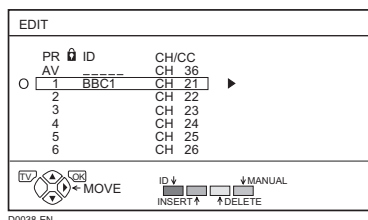
Caution

- 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.

■ Basic operation

1 Choose EDIT/MANUAL, then press the OK or ► button

The EDIT menu appears.

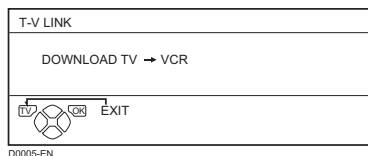


D0038-EN

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

If you do not have a T-V LINK compatible VCR connected:

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

The T-V LINK menu disappears.

If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:

Follow the operating procedure “Downloading the data to VCR” on page 6 to transmit the Programme number (PR) data.

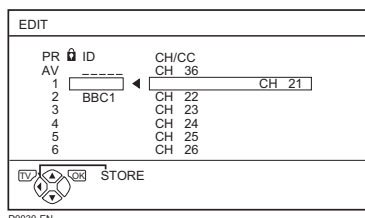
- For Programme number PR 0, “AV” appears in the Programme numbers (PR) list.
- An EXT terminal number does not appear in the Programme numbers (PR) list.
- The CH/CC number is a number unique to the TV and corresponding to the Channel number of a TV channel. For the relationship of a Channel number and a CH/CC number, see “CH/CC numbers” on page 34.

■ 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 ◀ button to change the Programme number (PR) of a TV channel to a new Programme number (PR)

■ 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

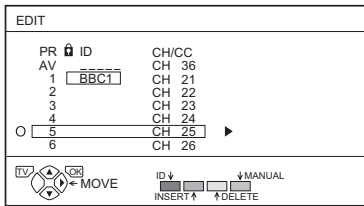
The TV channel is deleted from the Programme numbers (PR) list.

ID

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

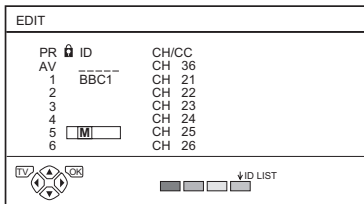
Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

2 Press the red button to start the ID function



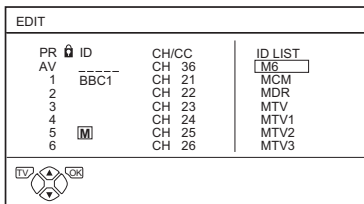
D0031-EN

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



D0032-EN

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



D0033-EN

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

- 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

Before performing INSERT operation

- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table “CH/CC numbers” on page 34 based on the Channel number of the TV channel.

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

2 Press the green button and start the INSERT function

EDIT		
PR	Ⓜ ID	CH/CC
AV	-----	CH 36
1	BBC1	CH 21
2		CH 22
3		CH 23
4		CH 24
5		CH 25
6		CH --
		0-9
CH/CC		

D0034-EN

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

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

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

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

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

■ MANUAL

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

2 Press the blue button to activate the MANUAL function

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

MANUAL		
PR	Ⓜ ID	CH/CC
AV	-----	CH 36
1	BBC1	CH 21
2		CH 22
3		CH 23
4		CH 24
5		CH 25 (B / G)
6		CH 26
SEARCH+ ↓ SYSTEM		↓ FINE- SEARCH- ↑ FINE+

D0035-EN

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

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.

- 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.

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

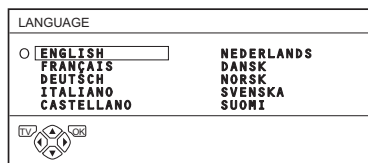
The normal EDIT menu is resumed.

LANGUAGE

The LANGUAGE setting which was performed in the “Initial settings” (page 4) can be changed.

- Choose LANGUAGE, then press the OK or ► button

A sub-menu of the LANGUAGE function appears.

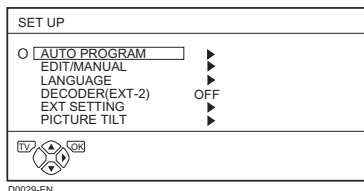


- Press the ◀/▶ and ▼/▲ buttons to choose a language. Then press the OK button

DECODER (EXT-2)

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.

- Turn on the Decoder power
- 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.
- Display the SET UP menu and choose DECODER (EXT-2)



- Press the ◀/▶ buttons to choose ON

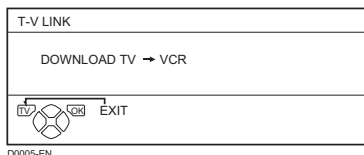
An unscrambled picture appears.

To cancel the DECODER (EXT-2) function:

Press the ◀/▶ buttons to choose OFF.

- Press the OK button to complete the setting

The T-V LINK menu appears.



You can send the programme numbers data to a VCR with the T-V LINK function.

6 Turn on the VCR, and then press the OK button to transmit the data to VCR

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

7 If you have another TV channel capable of being unscrambled with a Decoder, repeat steps 2 through 6

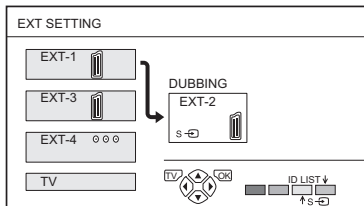
If for some reason the DECODER (EXT-2) function has been set to "ON" but the TV channel cannot be unscrambled, check the following:

- 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.

EXT SETTING

1 Choose EXT SETTING, then press the OK or ► button

The EXT SETTING menu appears.



D0020-EN

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

S (S-VIDEO):

You can enjoy high-quality picture of the 2 S-VIDEO signal (Y/C signal).

ID LIST:

You can have a name corresponding to the devices connected for each EXT terminal.

DUBBING:

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

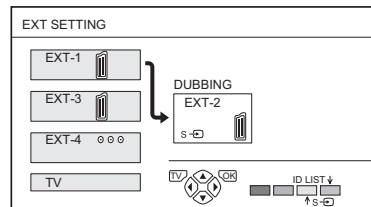
■ S (S-VIDEO input)

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 32 to connect the device to the TV properly. Second, follow the Device Instruction Manual to set the device so that an S-VIDEO signal (Y/C signal) can be output to the TV.
- Do not set S (S-VIDEO input) to the EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal). If it is set wrongly, a picture cannot appear.

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



D0020-EN

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

Then press the OK button

An **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** (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.

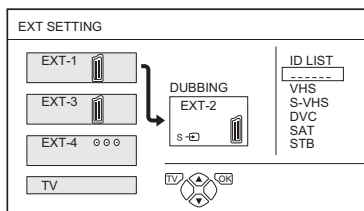
- The EXT-1 terminal does not support S-VIDEO signal (Y/C signal) and you cannot set **S** (S-VIDEO input) in the EXT-1 terminal.
- Setting **S** (S-VIDEO input) changes the head character from “E” to “S”. For example, “E2” is changed to “S2”.
- Even a device which enables the S-VIDEO signal (Y/C signal)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

■ 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 ◀/▶ 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.

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

To erase a name assigned to the EXT terminal:

Choose a blank space.

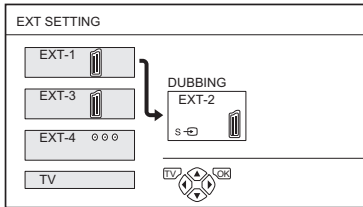
4 Press the OK button to complete the setting

■ 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. Then press the OK button

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.

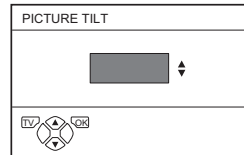
- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
- When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal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

PICTURE TILT

There are cases where the Earth's magnetic force may make the picture tilt or make unnatural colours appear in the corner of the screen. If this happens, you can correct it.

1 Choose PICTURE TILT, then press the OK or ▶ button

The sub-menu of the PICTURE TILT function appears.



D0018-EN

2 Press the ▼/▲ buttons until the picture becomes level. Then press the OK button

Additional preparation

Connecting the external devices

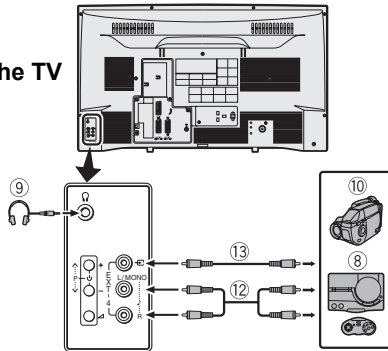
Connect the devices to the TV, paying attention to the following connection diagram.

Before connecting anything:

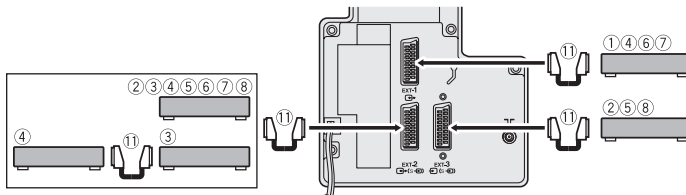
- Read the manuals provided with the devices. Depending on the devices, the connection method may differ from the figure. In addition, the device settings may be changed depending on the connection method to secure proper operation.
- Turn off all the devices including the TV.
- The “Specifications” on page 37 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)
- ⑨ Headphones
- ⑩ Camcorder (composite signal/S-VIDEO signal)
- ⑪ SCART cable
- ⑫ Audio cable
- ⑬ Video cable

Back of the TV



Back of the TV



■ Devices which can output the S-VIDEO signal (Y/C signal) such as an 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** (S-VIDEO input)” on page 29.

■ 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.

-
- 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 “DECODER (EXT-2)” on page 28.
-

■ Connecting headphones

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

- No sound comes out from the TV speakers when the headphones are connected.

■ 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 31.

■ 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.

-
- 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.
-

CH/CC numbers

When you want to use the INSERT function on page 27, 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	E2	CH 40	E40	CC 01	S1, AU5	CC 31	S31
CH 03	E3, ITALY A, AU1	CH 41	E41	CC 02	S2	CC 32	S32
CH 04	E4, ITALY B, AU2	CH 42	E42	CC 03	S3	CC 33	S33
CH 05	E5, ITALY D, AU6	CH 43	E43	CC 04	S4	CC 34	S34
CH 06	E6, ITALY E, AU7	CH 44	E44	CC 05	S5	CC 35	S35
CH 07	E7, ITALY F, AU8	CH 45	E45	CC 06	S6, AU5A	CC 36	S36
CH 08	E8, AU9	CH 46	E46	CC 07	S7	CC 37	S37
CH 09	E9, ITALY G	CH 47	E47	CC 08	S8	CC 38	S38
CH 10	E10, ITALY H, AU10	CH 48	E48	CC 09	S9	CC 39	S39
CH 11	E11, ITALY H+1, AU11	CH 49	E49	CC 10	S10	CC 40	S40
CH 12	E12, ITALY H+2	CH 50	E50	CC 11	S11	CC 41	S41
CH 21	E21	CH 51	E51	CC 12	S12	CC 75	X
CH 22	E22	CH 52	E52	CC 13	S13	CC 76	Y
CH 23	E23	CH 53	E53	CC 14	S14	CC 77	Z, ITALY C, AU3
CH 24	E24	CH 54	E54	CC 15	S15	CC 78	Z+1
CH 25	E25	CH 55	E55	CC 16	S16	CC 79	Z+2, AU4
CH 26	E26	CH 56	E56	CC 17	S17		
CH 27	E27	CH 57	E57	CC 18	S18		
CH 28	E28	CH 58	E58	CC 19	S19		
CH 29	E29	CH 59	E59	CC 20	S20		
CH 30	E30	CH 60	E60	CC 21	S21		
CH 31	E31	CH 61	E61	CC 22	S22		
CH 32	E32	CH 62	E62	CC 23	S23		
CH 33	E33	CH 63	E63	CC 24	S24		
CH 34	E34	CH 64	E64	CC 25	S25		
CH 35	E35	CH 65	E65	CC 26	S26		
CH 36	E36	CH 66	E66	CC 27	S27		
CH 37	E37	CH 67	E67	CC 28	S28		
CH 38	E38	CH 68	E68	CC 29	S29		
CH 39	E39	CH 69	E69	CC 30	S30		

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.
- Flashing of the power lamp indicates a malfunction.
Unplug the mains plug and ask for your TV to be repaired.

■ If you cannot turn on the TV

- Is the AC plug connected to the AC outlet?

■ 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 22 to try to change the BLUE BACK function setting to OFF.
- 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 24 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 19 to try to solve the trouble.
- Has COLOUR or BRIGHT been controlled properly? Follow the description “BRIGHT” or “COLOUR” on page 18 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 “BASS” or “TREBLE” on page 21 to try to adjust them properly.
- When the TV channel reception is poor, it can be hard to hear the stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 21 to hear the sound more easily by changing it to a mono sound.

■ Operation disabled

- Have the batteries of the remote control become exhausted? Follow the description “Putting the batteries into the Remote control” on page 4 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.

■ 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 colours 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 31 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	AV-32T4SA
Broadcasting systems		CCIR B/G, I
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, AU1-AU11
Sound-multiplex systems		A2 (B/G), NICAM (B/G, I) system
Teletext systems		FLOF (Fastext), TOP, WST (World Standard System)
Power requirements		220 - 240 V AC, 50 Hz
Power consumption		110 W, Standby: 2.7 W
Picture tube size		Viewable area 76 cm (measured diagonally)
Audio output		Rated Power output: 10 W + 10 W
Speakers		(13 cm × 6.5 cm) oval × 2
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 • Video input and Audio L/R inputs are available.
Headphone jack		Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)		948 mm × 562 mm × 550 mm
Weight		53.0 kg
Accessories		Remote control unit × 1 (RM-C1502) AA/R6 dry cell battery × 2

Design and specifications subject to change without notice.

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



JVC