

LCD Color TV

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model and serial numbers are located at the rear of the TV, on the backside of the rear cover, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

LCD
WEGA

KLV-21SR2

WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION

The following SONY appliance for use only with the following WALL-MOUNT BRACKET. Use with other WALL-MOUNT BRACKET is capable of resulting in instability causing possible injury.

SONY APPLIANCE MODEL NO.
KLV-21SR2

WALL-MOUNT BRACKET MODEL NO.
SU-W210

SONY Corp.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note to CATV system installer

This note is provided to call the CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF, VHF, transmitted by cable companies or satellite for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

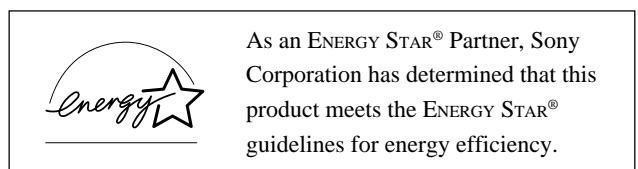
- Reorient or relocate the receiving antennas.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and your authority to operate this equipment.

Safety

- Operate the TV only on 120 V AC.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.



ENERGY STAR® is a U.S. registered mark.

WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

Important Safety Instructions

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Handling the LCD screen

- Do not leave the LCD screen facing the sun as it can damage the LCD screen. Take care when you place the TV by a window.
- Do not push on or scratch the LCD screen. Do not place a heavy object on the LCD screen. This may cause the screen to lose uniformity or cause LCD panel malfunctions.
- If the TV is used in a cold place, a smear may appear on the screen. This is not a malfunction. The screen returns to normal as the temperature rises to a normal operating level.
- If a still picture is displayed for a long time, a ghosting may occur for a while. The ghosting will eventually disappear.
- The LCD panel becomes warm during operation. This is not a malfunction.

Note on the LCD (Liquid Crystal Display)

Please note that the LCD screen is made with high-precision technology. However, black points or bright points of light (red, blue, or green) may appear constantly on the LCD screen, and irregular colored stripes or brightness may appear on the LCD screen. This is not a malfunction. (Effective dots: more than 99.99%)

Handling of Broken Glass and Liquid Crystal Leakage

If the LCD panel gets damaged, crystalline liquid leakage may occur, or scattered broken glass may result. Do not touch broken glass or crystalline liquid (which is toxic), with bare hands as cuts or poisoning/skin irritation may occur. Also, do not let glass fragments or leaked crystalline liquid get into your eyes or mouth. Should either contact your eyes or mouth, rinse the contacted area thoroughly with water and consult your doctor.

Fluorescent Lamp

This TV uses a special fluorescent lamp as its light source. If the screen image becomes dark, flickers or does not appear, the fluorescent lamp has run down and should be replaced. For replacement, consult qualified service personnel.

Disposal of the TV

- Do not dispose of the TV with general household waste.
- The LCD contains a small amount of liquid crystal and mercury. The fluorescent lamp used in this TV also contains mercury. Follow your local ordinances and regulations for disposal.

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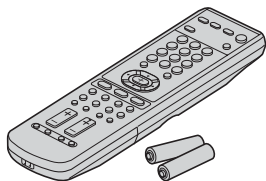
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Installing and Connecting the TV

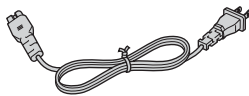
Unpacking

When you unpack this unit, make sure it includes the following:

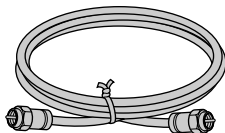
Remote control (1) and size AA batteries (2)



AC power cord (1)



75-ohm coaxial cable (1)



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Connector Types

You may find it necessary to use some of the following connector types during set up.

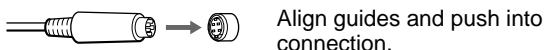
Supplied 75-ohm coaxial cable

Screw-on type



S VIDEO cable

High quality video cable for enhanced picture quality



AUDIO/VIDEO cable



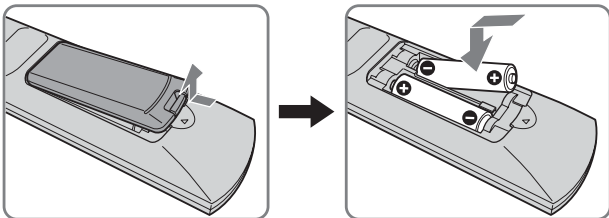
VIDEO - Yellow
AUDIO (Left) - White
AUDIO (Right) - Red

Some DVD players are equipped with the following three video connectors:

Y - Green
P_B (C_B, C_b or B-Y) - Blue
P_R (C_R, C_r or R-Y) - Red

Inserting Batteries into the Remote Control

Insert two size AA batteries (supplied) by matching the + and - on the batteries to the diagram inside the remote control's battery compartment.

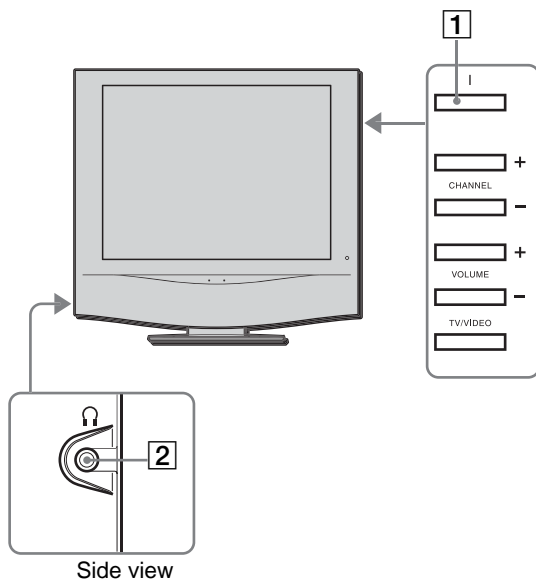


Notes

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment (See "Operating Video Equipment with Your TV Remote Control" on page 30).

Identifying Front and Rear Connectors

TV front panel



1 POWER button (page 20)

2 Headphones jack

Connects to your headphones.

If your headphones do not match the jack, use a suitable plug adaptor (not supplied).

3 VHF/UHF (pages 8, 12 - 14)

Connects to your VHF/UHF antenna or cable.

4 VIDEO 1 IN (pages 12 - 14, 17)

Connects to the output jacks of your VCR or other video equipment.

5 VIDEO 2 IN (page 12 - 14, 17)

Connects to the output jacks of your VCR or other video equipment.

6 AC IN (page 9)

Connects the supplied AC power cord.

7 AUDIO OUT (page 15)

Connects to the input jacks of your audio equipment.

Audio output through the AUDIO OUT jacks is available only when the TV's speaker is off (See page 15).

8 VIDEO 3 IN

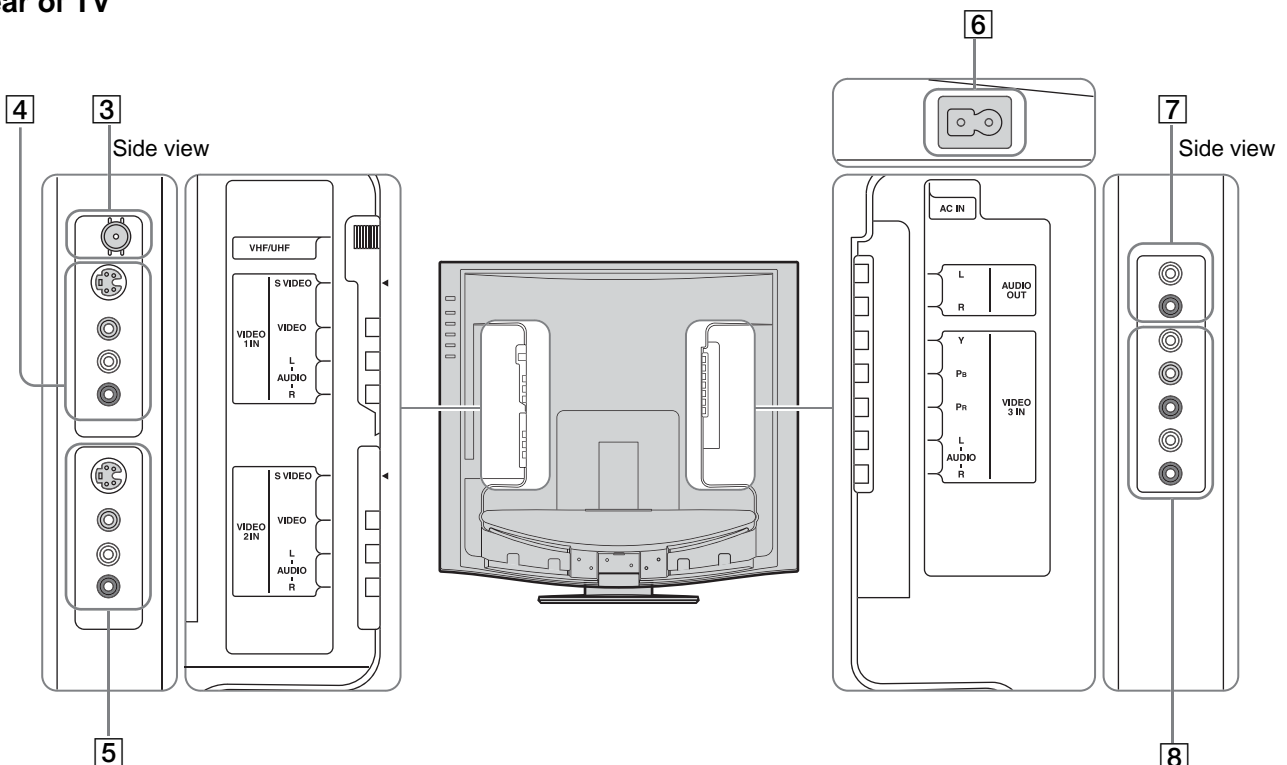
Y, P_B, P_R input jacks (pages 16, 18, 19)

Connects to the component video connectors (Y/C_B/C_R, Y/B-Y/R-Y, or Y/P_B/P_R) of your DVD player or other video equipment such as a Digital Satellite Receiver and Digital TV Receiver.

AUDIO (L/R) input jacks (pages 16, 18, 19)

Connects to the audio output jacks of your DVD player or other video equipment such as a Digital Satellite Receiver and Digital TV Receiver.

Rear of TV

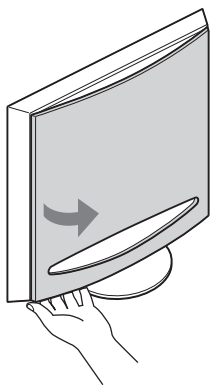


Basic Connections (Connecting Cable TV or an Antenna)

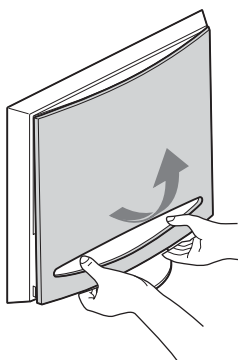
When connecting an antenna or cables, remove the rear cover of the TV beforehand.

Removing the rear cover

- 1 Hold the lower right (or left) corner of the back cover as illustrated below and pull it towards you. Do the same to the remaining left (or right) corner.

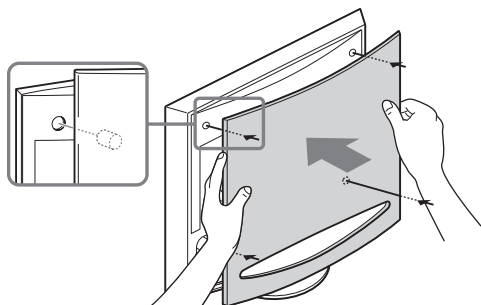


- 2 Hold the bottom edge of the cover with both hands as illustrated and lift upwards.



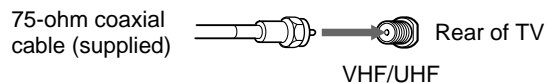
Attaching the rear cover

Hold the rear cover as illustrated below, fitting the four pegs on the rear cover into the corresponding holes on the TV, then push the rear cover back onto the TV.



Connecting directly to cable or an antenna

VHF only or VHF/UHF or cable



Note

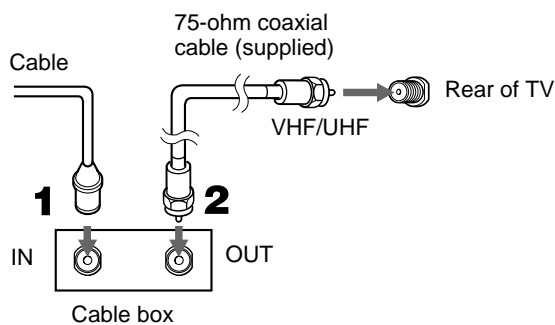
It is strongly recommended to connect the antenna using a 75-ohm coaxial cable to get optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it away as far as possible from the TV.


Cable box connections

Use this hookup if:

- You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- You do not intend to hook up any other audio or video equipment to your TV.

- 1 Connect the coaxial connector from your cable service to the cable box's IN jack.
- 2 Using the supplied 75-ohm coaxial cable, connect the cable box's OUT jack to the TV's VHF/UHF jack.



Also, set "Cable" to "On" in the  (Channel) menu (See page 20).

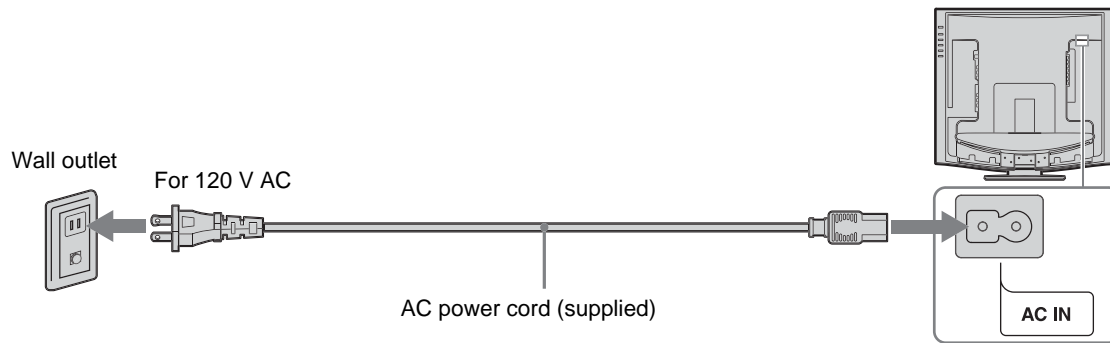
Tips

- Your Sony remote control can be programmed to operate your cable box (See "Programming the remote control" on page 30).
- To change channels using the cable box, set your TV to channel 3 or 4 depending on the cable box channel output.
- If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your TV to channel 3 or 4 (See page 21).

Connecting the Power Cord

Complete other connections prior to connecting the power cord.

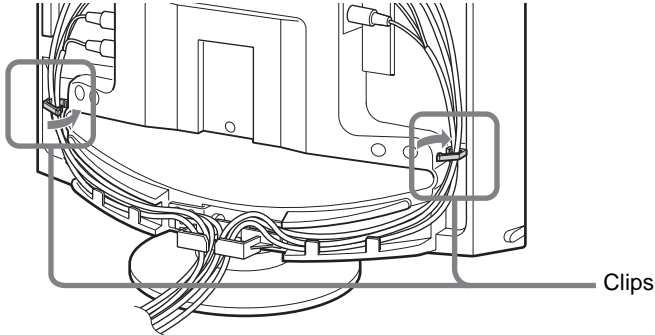
- 1** Connect the power cord to the AC IN connector of the TV.
- 2** Connect the other plug of the power cord to a wall outlet.



Bundling cords and cables

You can organize the cables in the back of the TV.

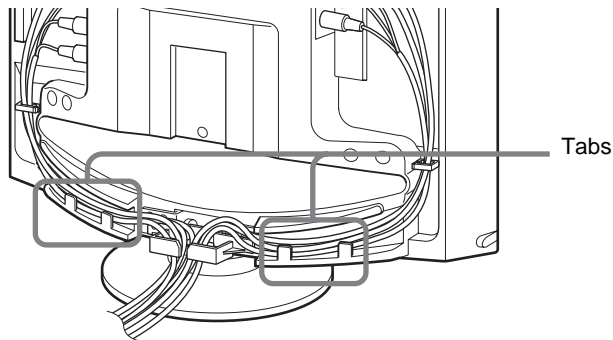
- 1 Bundle the cables and secure them with the clips on both sides of the TV.



Note

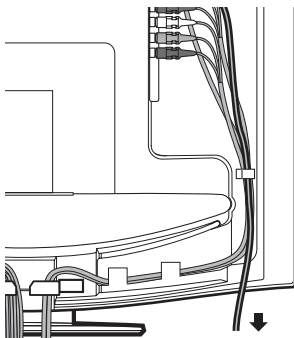
It may not be possible to fasten with clips if cables are too thick.

- 2 Pass the cables through the grooves. Be sure to place the cables inside the tabs at the bottom of the TV.

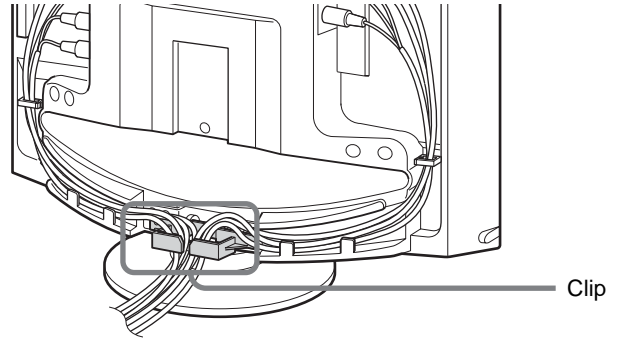


Note

If all the cables cannot be stored inside, you may leave some of them hanging down on both sides of the TV.



- 3 Gather the cables from both sides together and secure them with the clip at the bottom.

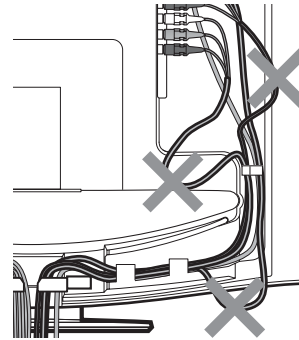


Note

It may not be possible to fasten with clips if cables are too thick.

Note

If the cables are not neatly stored in the grooves, you may not be able to attach the rear cover.

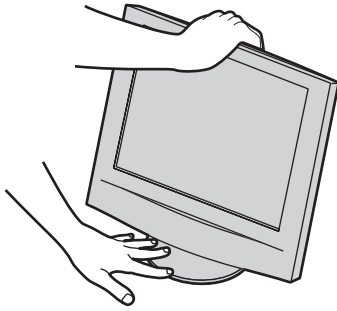


Adjusting the viewing angle of the TV

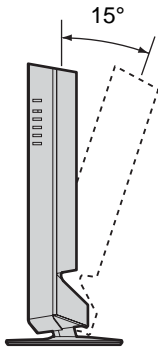
You can adjust the angle to avoid the reflection of light and get a better view of the TV.

Note

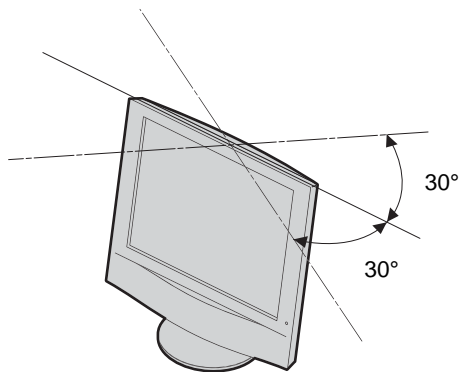
When adjusting the angle, steady the base of the stand with your hand to prevent the TV from becoming separated from the stand. Be careful not to get your fingers caught between the TV and the stand.



Backward direction



Horizontal direction



Carrying the TV

When carrying the TV, hold it as shown in the diagram below. Do not hold only by the rear cover. As the rear cover is designed to come off, doing so may cause you to drop the TV, resulting in damage to the TV or cause injury.



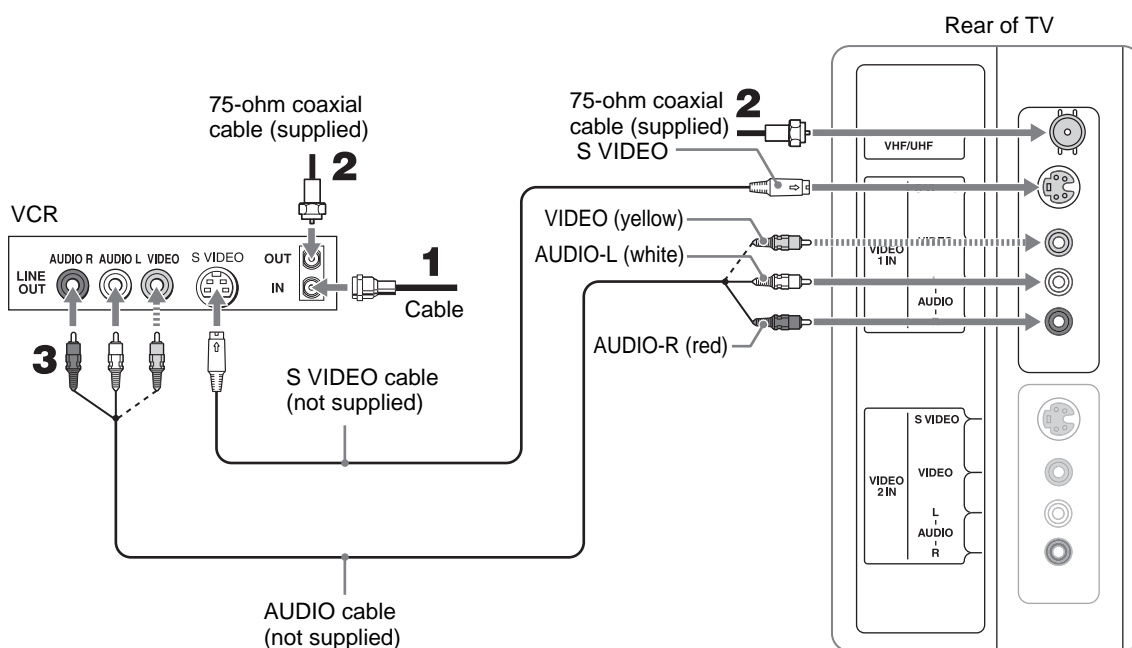
Connecting a VCR and Cable TV

Use this hookup if:


- You have cable TV that does not require a cable box.

Disconnect all power sources before making any connections.

- 1** Connect the CATV cable to the VCR's IN jack.
- 2** Using the supplied 75-ohm coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.
- 3** Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.



Note










To watch the pictures input from the S VIDEO input jack, set "Auto YC" to "On" in the  (Setup) menu (See below).

Tips

- You can also use the VIDEO 2 IN jacks to connect your VCR.
- If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

When connecting both VIDEO OUT and S VIDEO OUT

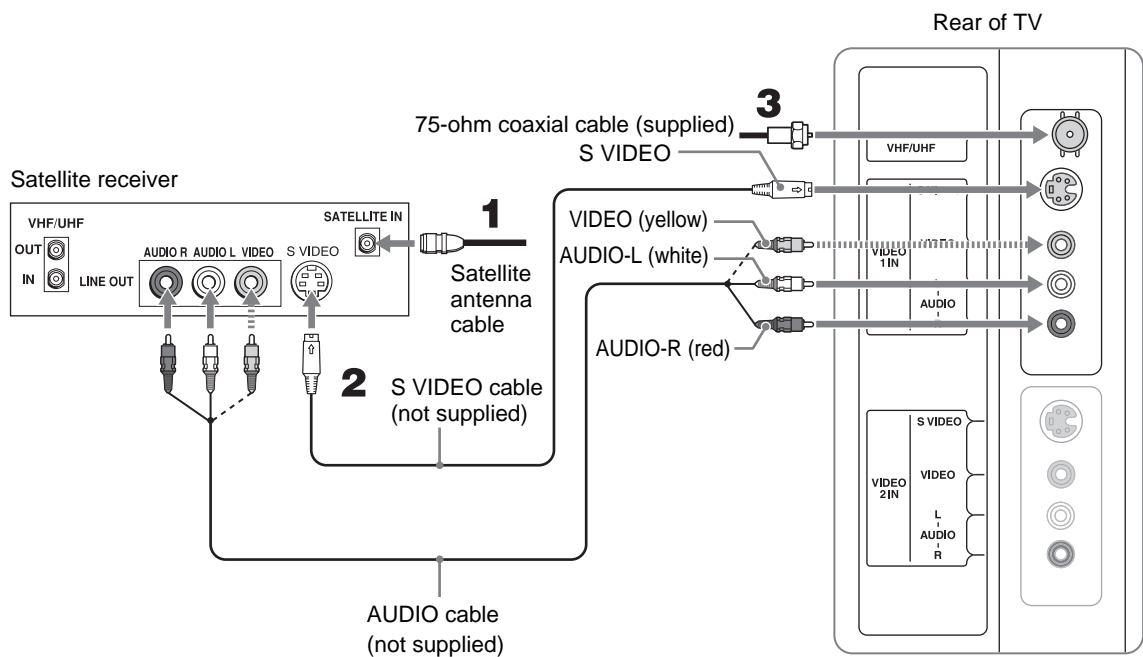
You can select the jack the TV receives the input signal from on the menu screen. The TV is factory set to receive S VIDEO input signals.

- 1** Press TV/VIDEO repeatedly to select VIDEO 1 IN.
- 2** Press MENU.
- 3** Press  to select  (Setup), then press .
- 4** Press  to select "Auto YC," then press .
- 5** To watch the pictures input from the S VIDEO input jack: Press  to select "On," then press .
To watch the pictures input from the VIDEO input jack: Press  to select "Off," then press .
- 6** Press MENU to exit the menu screen.


Connecting a Satellite Receiver

Disconnect all power sources before making any connections.

- 1** Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2** Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.
- 3** Connect the supplied 75-ohm coaxial cable from your cable or antenna to the TV's VHF/UHF jack.



Note

To watch the pictures input from the S VIDEO input jack, set "Auto YC" to "On" in the  (Setup) menu (See page 12).

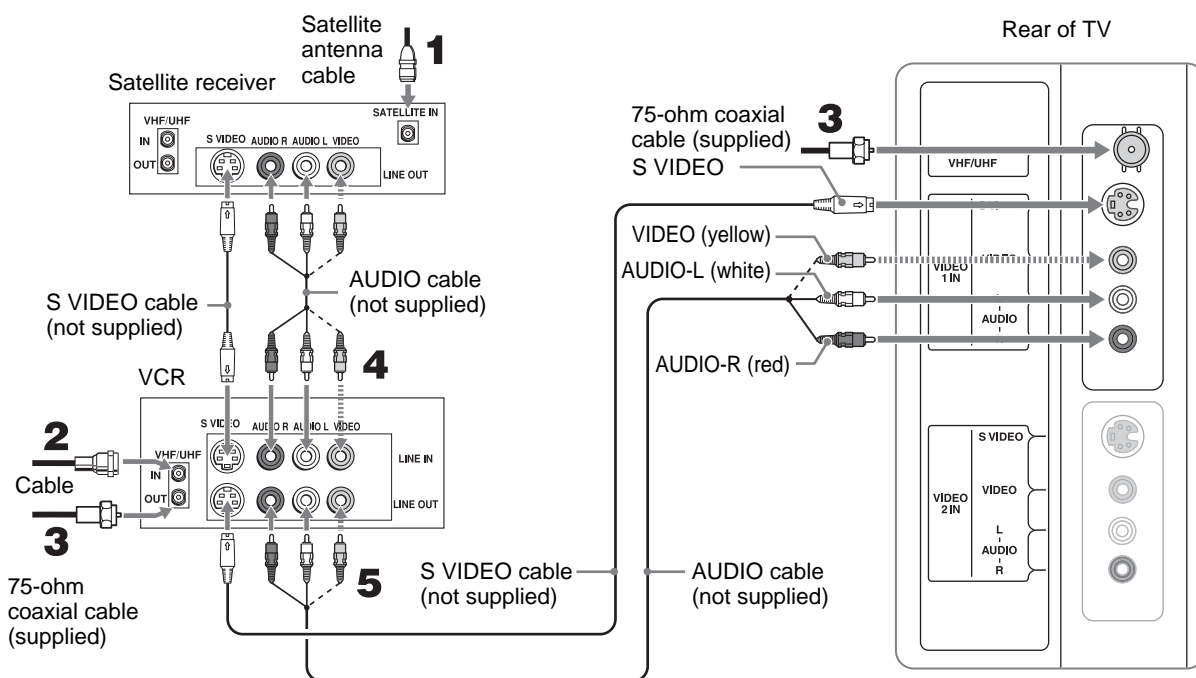
Tips

- You can also use the VIDEO 2 IN jacks to connect your satellite receiver.
- If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.


Connecting a Satellite Receiver with a VCR

Disconnect all power sources before making any connections.

- 1** Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2** Connect the CATV cable to the VCR's VHF/UHF IN jack.
- 3** Using the supplied 75-ohm coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.
- 4** Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the VCR's AUDIO and S VIDEO IN jacks.
- 5** Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.



Note

To watch the pictures input from the S VIDEO input jack, set "Auto YC" to "On" in the  (Setup) menu (See page 12).

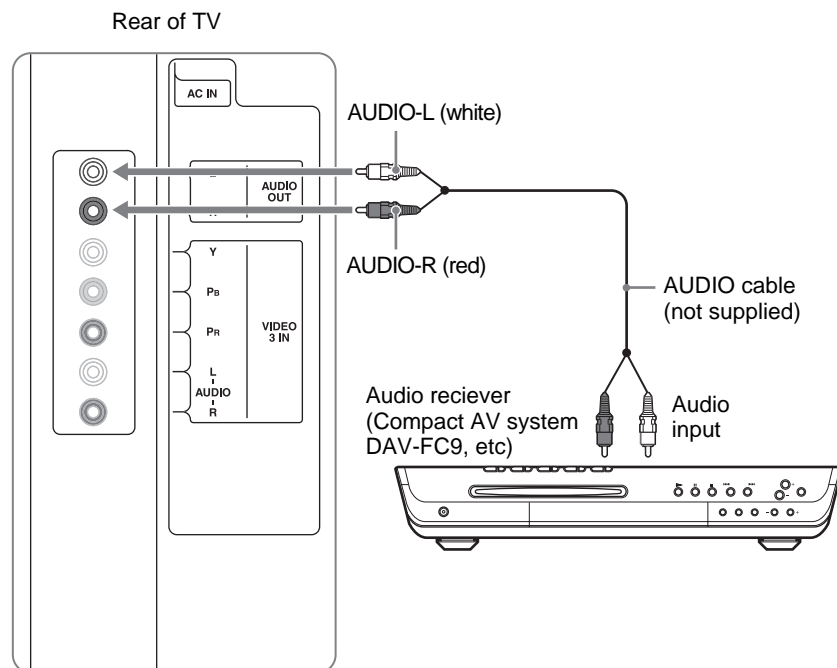
Tips

- You can also use the VIDEO 2 IN jacks to connect your VCR.
- Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
- Use TV/VIDEO on the remote control to select VIDEO 1 IN to watch satellite TV or to watch a tape on the VCR (your VCR must be turned on).
- If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



Connecting an Audio Receiver

Disconnect all power sources before making any connections.

Using an AUDIO cable, connect the TV's AUDIO OUT jacks to the audio receiver's AUDIO IN jacks.




When using your audio system speakers

Set "Speaker" to "Off" in the  (Audio) menu. The TV's sound is not output from the AUDIO OUT jacks when the TV's speaker is set to on. You can still control the volume output from your audio system using the TV's remote control, by setting "Audio Out" in the  (Audio) menu to "Variable."

If you want to adjust the volume through your audio system, set "Audio Out" to "Fixed."

Notes

- The video signal is not output through the AUDIO OUT jacks.
- When "Audio Out" in the  (Audio) menu is set to "Variable," "Speaker" is to "Off," check if the speaker volume is moderate before switching "Speaker" from "Off" to "On." Otherwise, the speaker volume may get too loud.

Connecting a DVD Player with Component Video Connectors

This is the preferred hookup to use if:

- Your DVD player has component (Y, B-Y, R-Y) jacks.

Disconnect all power sources before making any connections.

- 1** Using a component video cable, connect the DVD player's Y, B-Y and R-Y jacks to the Y, P_B and P_R jacks on the TV. Use the VIDEO 3 IN connections.

Note

This TV supports only the 480i and 480p signal format. If the TV receives a signal other than 480i or 480p, "Non Supported Video Format" appears on the screen.

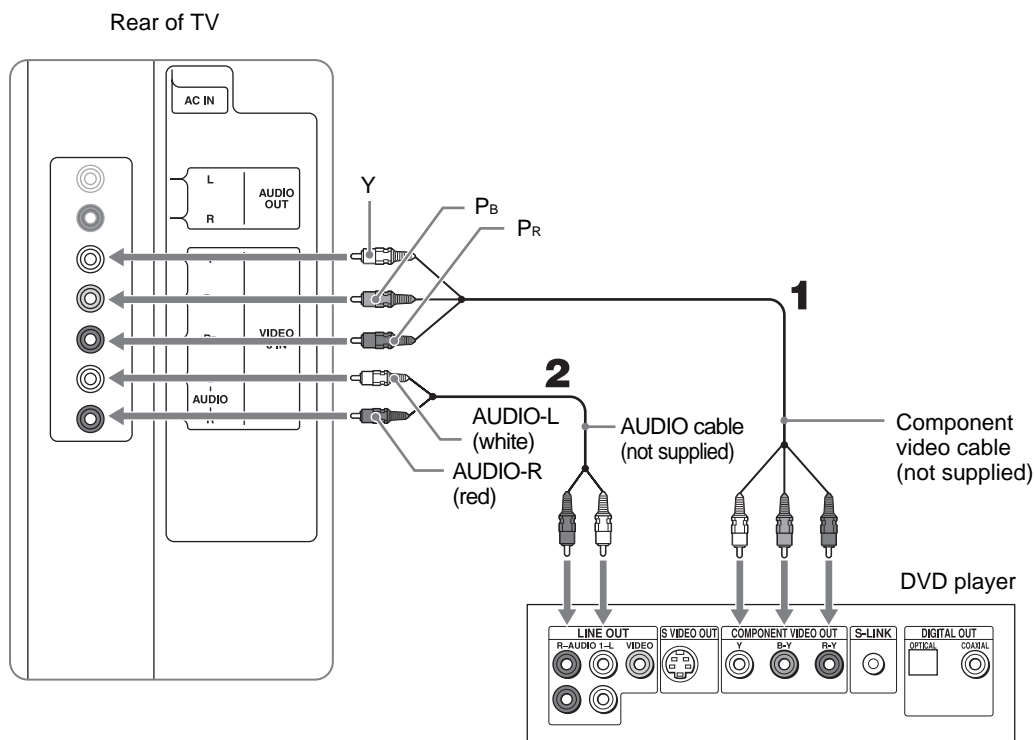
Tip

The Y, B-Y and R-Y jacks on your DVD player are sometimes labeled as Y, C_B and C_R, or Y, P_B and P_R. If so, connect the cables to the matching colors.

- 2** Using an AUDIO cable, connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks.

Note

The Y, B-Y and R-Y jacks do not provide audio, so audio cables must be connected to provide sound.



Tips

- To take advantage of the Wide Screen Modes, set the TV's aspect ratio to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.
- Some DVD players are equipped with the three component video connectors: Y-Green, P_B (C_B, C_b or B-Y) -Blue and P_R (C_R, C_r or R-Y) -Red.

Connecting a DVD Player with A/V Connectors

Use this hookup if:

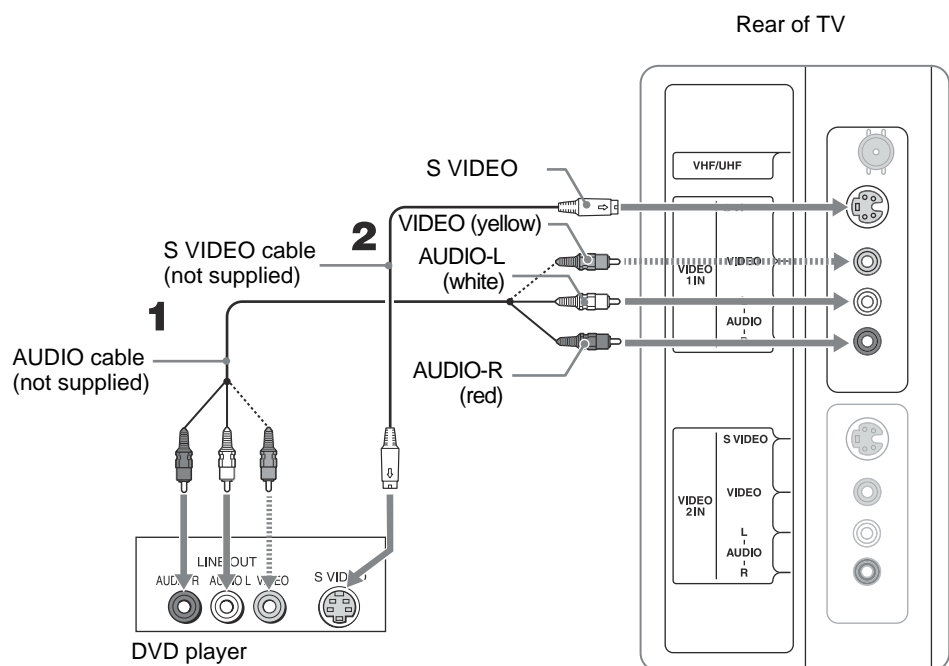
- Your DVD player does not have component (Y, P_B, P_R) jacks.

Tip


If your DVD player has component video output connectors, for best picture quality, use the connection described on page 16.

Disconnect all power sources before making any connections.

- 1** Using an AUDIO cable, connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks.
- 2** Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



Note

To watch the pictures input from the S VIDEO input jack, set "Auto YC" to "On" in the  (Setup) menu (See page 12).

Tips

- You can also use the VIDEO 2 IN jacks to connect your DVD player.
- To take advantage of the Wide Screen Modes, set the TV's aspect ratio to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.
- Use TV/VIDEO on the remote control to switch to the DVD player input.
- If your DVD player is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Connecting a Digital Satellite Receiver

Disconnect all power sources before making any connections.

- Using a component video cable, connect the Digital Satellite Receiver's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the VIDEO 3 IN connections.

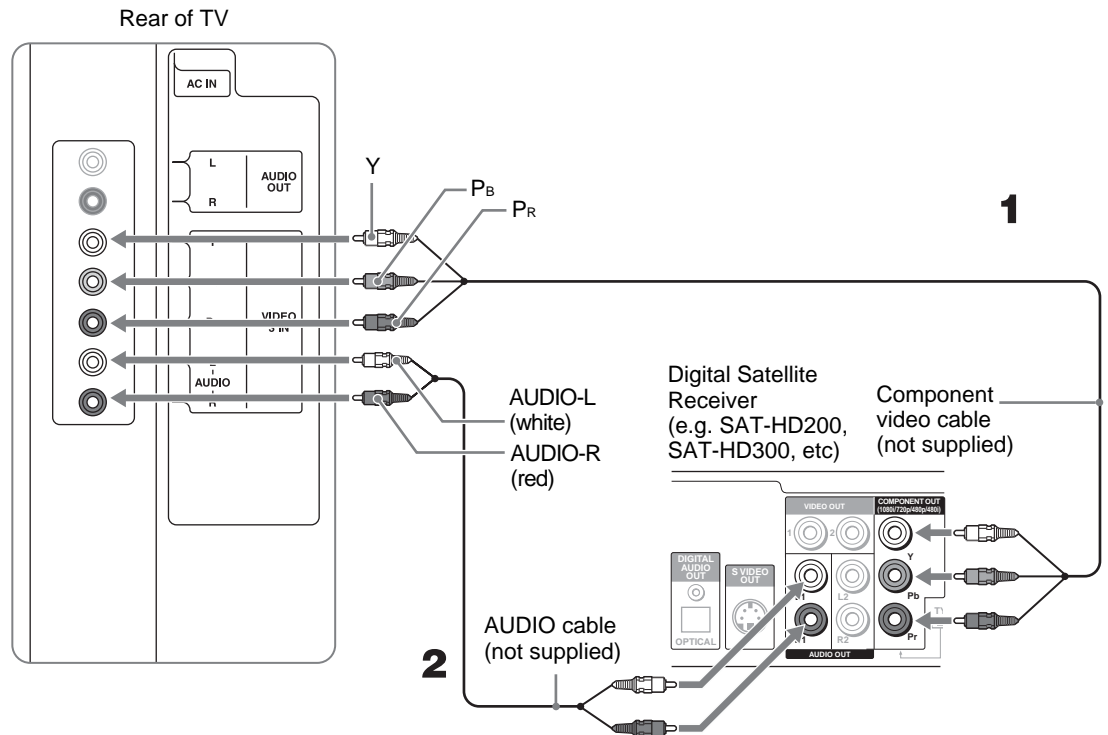
Note

This TV supports only the 480i and 480p signal format. If the TV receives a signal other than 480i or 480p, "Non Supported Video Format" appears on the screen.

- Using an AUDIO cable, connect the Digital Satellite Receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks.

Note

The Y, P_B and P_R jacks do not provide audio, so audio cables must be connected to provide sound.



Connecting a Digital TV Receiver

Disconnect all power sources before making any connections.

- 1** Using a component video cable, connect the Digital TV receiver's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the VIDEO 3 IN connections.

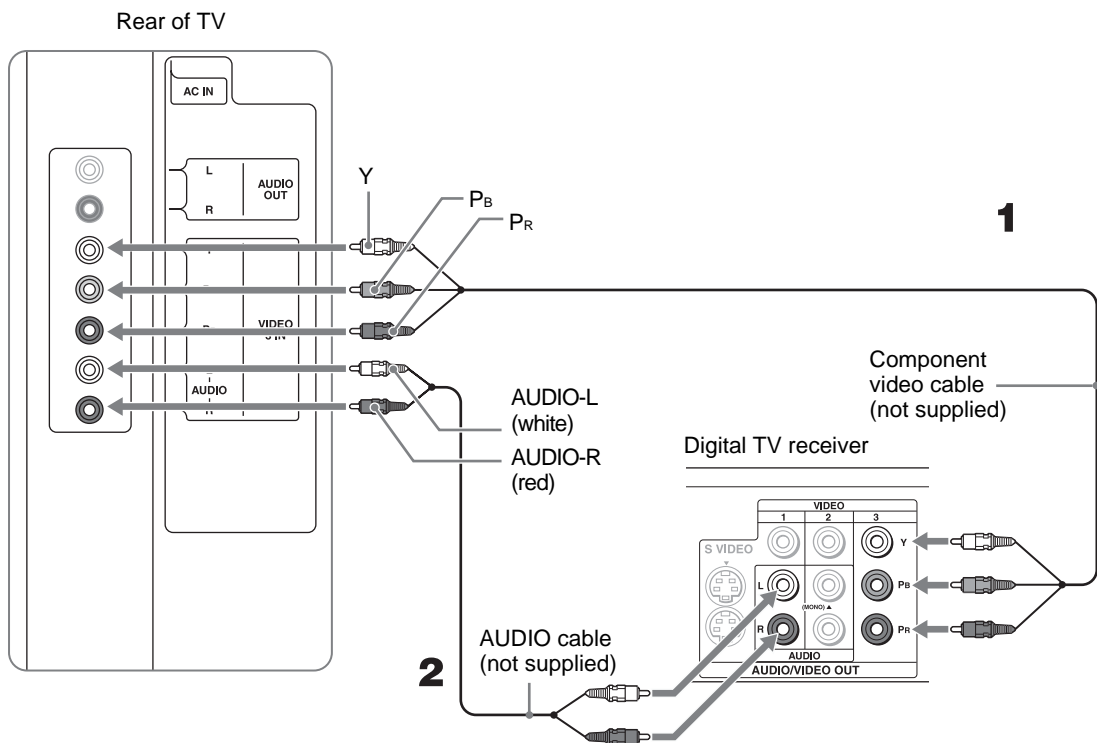
Note

This TV supports only the 480i and 480p signal format. If the TV receives a signal other than 480i or 480p, "Non Supported Video Format" appears on the screen.

- 2** Using an AUDIO cable, connect the Digital TV receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks.

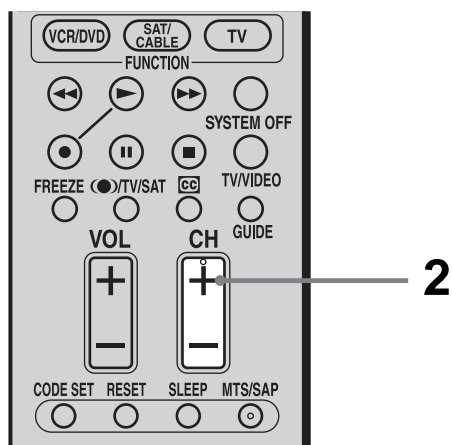
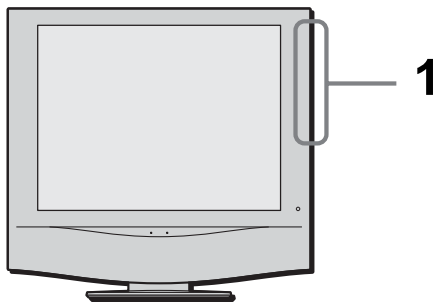
Note

The Y, P_B and P_R jacks do not provide audio, so audio cables must be connected to provide sound.



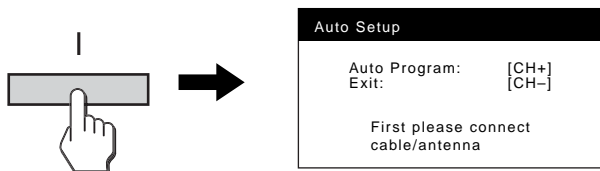
Setting the Channels

After you finish connecting your TV, you can run Auto Program to set up your channels. The Auto Program screen appears when you turn your TV on for the first time after installing it. To skip channels, see page 21.



- 1 Press I (power) on the TV. The Auto Setup menu appears.

The Auto Setup menu automatically appears on the screen when you turn on the TV for the first time.



- 2 Press CH+ on the remote control or on the side panel of your TV to perform Auto Program.

When all the receivable channels are stored, the “Channel Skip/Add” menu appears.

Auto Program is set to scan cable TV channels by default. To watch UHF channels with an antenna, see “To watch UHF channels with an antenna” below.

To perform Auto Program again

- 1 Press MENU.
- 2 Press \uparrow/\downarrow to select (Channel), then press \oplus .
- 3 Press \uparrow/\downarrow to select “Auto Program,” then press \oplus .
- 4 Press “OK.”
“Auto Program” appears and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, the “Channel Skip/Add” menu appears. Using this menu, you can start skipping unwanted channels (See “To skip channels” on page 21).
- 5 Press MENU to exit the menu screen.

To cancel Auto Program

While “Auto Program” is displayed in step 3, press MENU on the remote control.

Note

To watch cable TV channels, you have to subscribe to a cable TV company. Note that cable TV cannot be received in some areas. This TV receives 1-125 cable TV channels. For details on cable TV subscription, consult your nearest cable TV company.

To watch UHF channels with an antenna

- 1 Press MENU.
- 2 Press \uparrow/\downarrow to select (Channel), then press \oplus .
- 3 Press \uparrow/\downarrow to select “Cable,” then press \oplus .
- 4 Press \uparrow/\downarrow to select “Off,” then press \oplus .
- 5 Perform step 3 in “To perform Auto Program again” above.

Note




You cannot receive and set the cable TV channels and UHF channels at the same time.

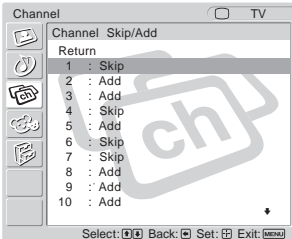
Tip


When you have a cable box or satellite receiver connected, the Channel Fix feature is useful. For details, see page 21.

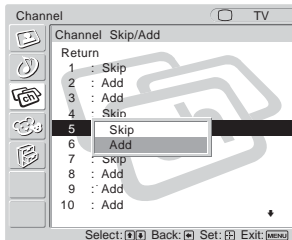
To skip channels

You can skip unnecessary channels when selecting channels using the CH +/- buttons.

- 1 Press MENU.
- 2 Press \uparrow/\downarrow to select  (Channel), then press .
- 3 Press \uparrow/\downarrow to select "Channel Skip/Add," then press .




- 4 Press \uparrow/\downarrow to select the channel you want to skip, then press .

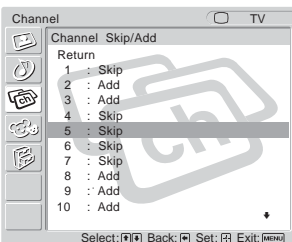


Example: Select this to skip channel 5.

Tip

To scroll through the list, press and hold \uparrow/\downarrow .

- 5 Press \uparrow/\downarrow to select "Skip," then press .






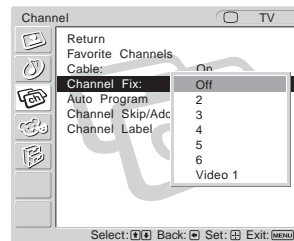
If you want to re-enter the skipped channel, select "Add."


- 6 Press MENU to exit the menu screen.

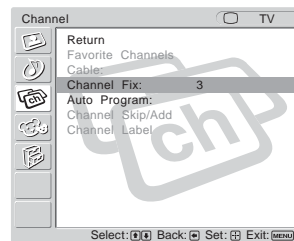
To lock in a TV channel

If you have connected a cable box or satellite receiver to your TV, and do not intend to connect any other audio or video equipment, it is recommended that you lock in a TV channel. Doing so will ensure no accidental channel switch when using your TV.

- 1 Press MENU.
- 2 Press \uparrow/\downarrow to select  (Channel), then press .
- 3 Press \uparrow/\downarrow to select "Channel Fix," then press .



- 4 Press \uparrow/\downarrow to select the channel you want to set, then press .



Option	Description
2-6	Select one of these settings if you have connected the equipment to the VHF/UHF jack.
Video 1	Select this if you have connected the equipment to the AUDIO and VIDEO IN jacks.
Off	Select this to turn off the Channel Fix feature.

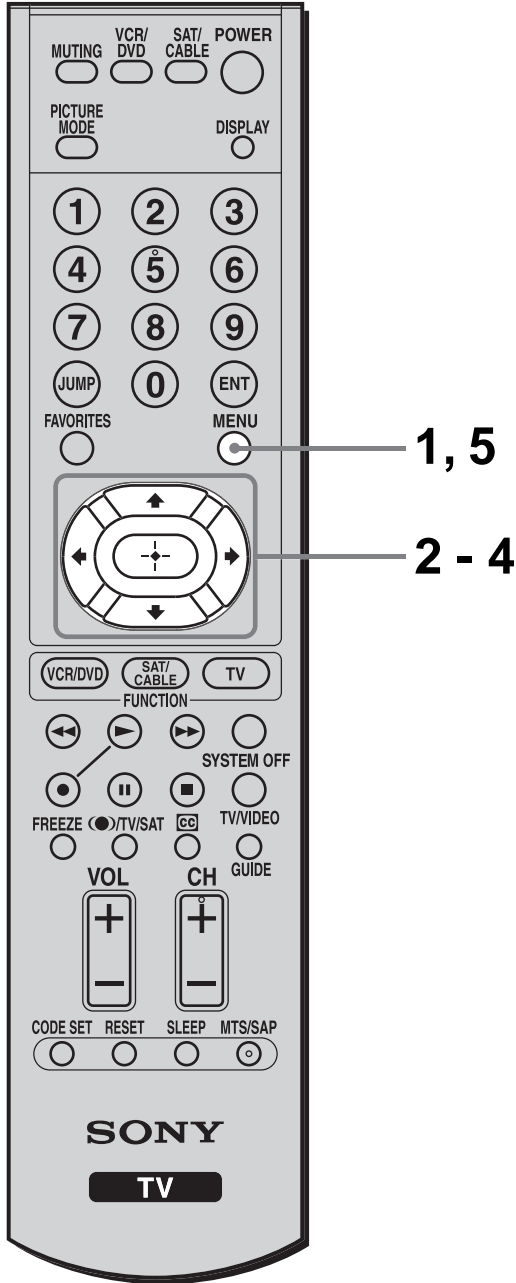
- 5 Press MENU to exit the menu screen.

Notes

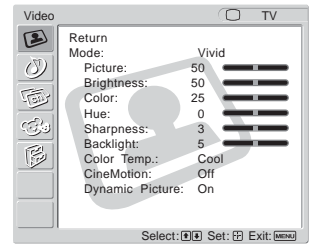
- When you lock in a TV channel, the Favorite Channel feature cannot be used.
- When you lock in a TV channel, you cannot select "Channel Skip/Add" in the menu. To use it, set "Channel Fix" to "Off."

Selecting the On-screen Menu Language

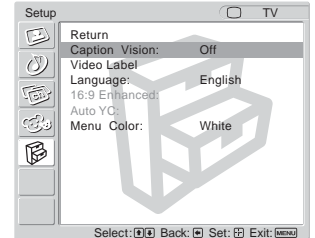
You can select the language to be displayed in all menus.



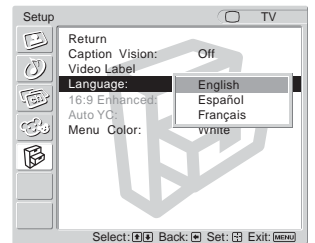
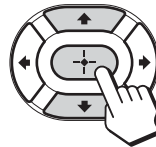
1 Press MENU.



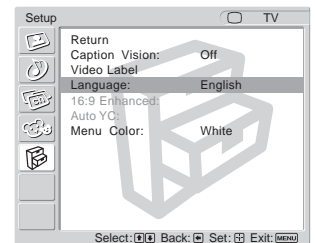
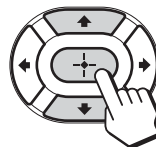
2 Press \uparrow/\downarrow to select  (Setup), then press \oplus .



3 Press \uparrow/\downarrow to select "Language," then press \oplus .



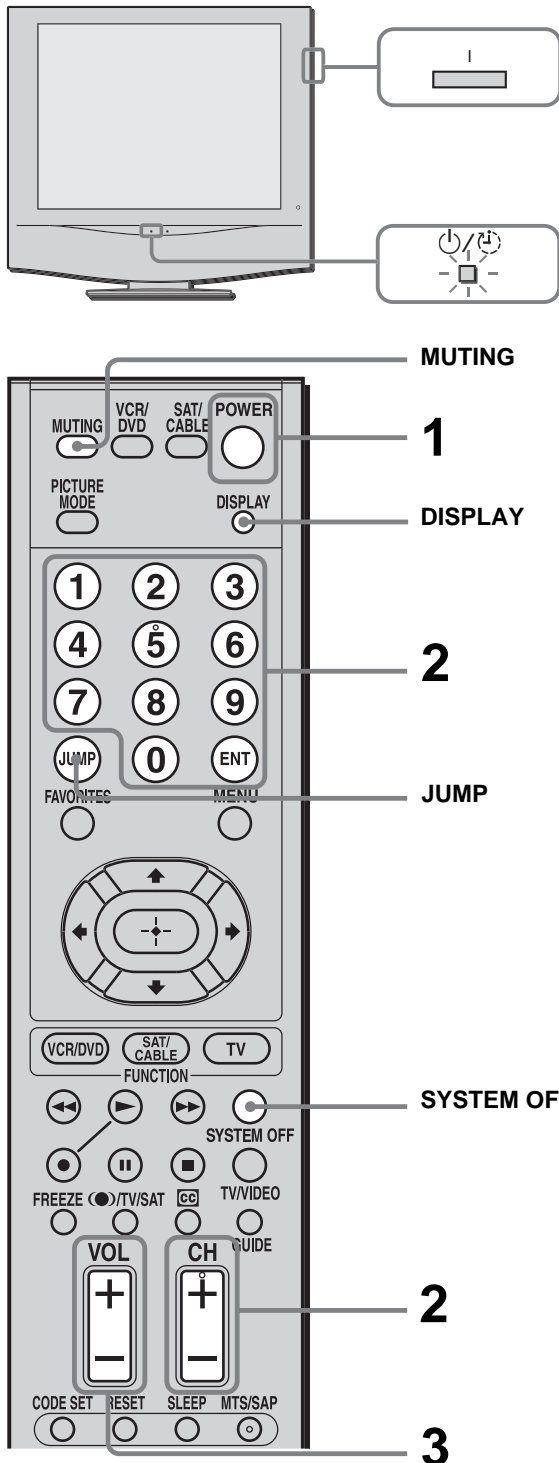
4 Press \uparrow/\downarrow to select your preferred language, then press \oplus .



5 Press MENU to exit the menu screen.

Watching the TV

Watching the TV

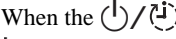



- 1 Press **POWER** on the remote control.

POWER



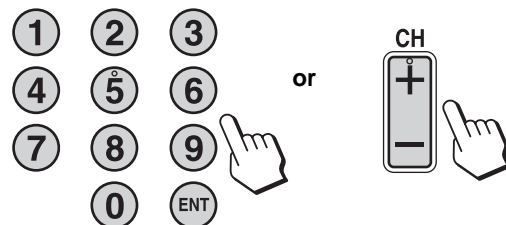
Tip

When the  (Standby/Sleep) indicator goes off, press  on the TV.

- 2 Select the desired channel using the 0-9 and **ENT** (enter) buttons.

Press 0-9 to select a channel. The channel changes after 2 seconds. Press **ENT** (enter) to select immediately.

Use the **CH +/-** buttons to scan through the channels.



Tip

When you press and hold **CH +** or **-**, the channel number will change rapidly.

- 3 Adjust the volume using the **VOL +/-** buttons.



Other button operations

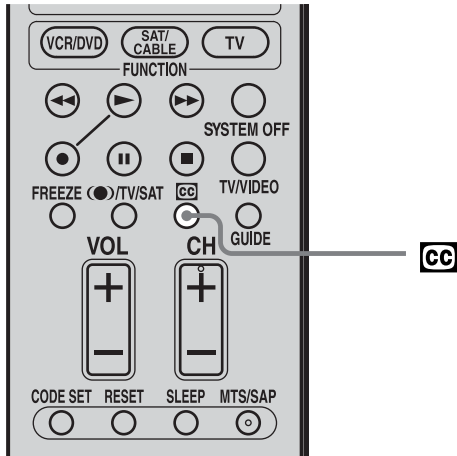
Press	To
MUTING	Mute the sound. Press again or press VOL + to restore sound.
SYSTEM OFF	Turn off the TV and all other Sony equipment.
DISPLAY	Display the current channel number. When the channel display is turned on, the current channel number remains displayed. Press again to turn the display off.
JUMP	Jump back and forth between two channels. The TV alternates between the current channel and the last channel selected using the 0-9 buttons.

Tip

You can adjust the volume by referring to the value beside the volume indicator (on screen).

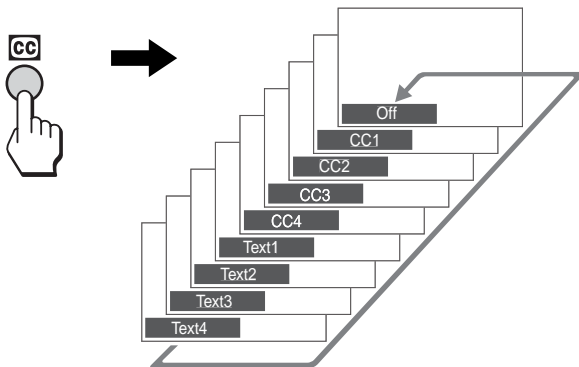
Watching with closed caption

You can display Caption Vision if the broadcaster offers this service.




Press **CC** repeatedly until the desired Caption Vision appears.

Each time you press the button, Caption Vision changes as follows:



Select	To
Off	Turn off Caption Vision.
CC1, CC2, CC3, CC4	Display a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.)
Text1, Text2, Text3, Text4	Display network/station information presented using either half or the whole screen.

Tip

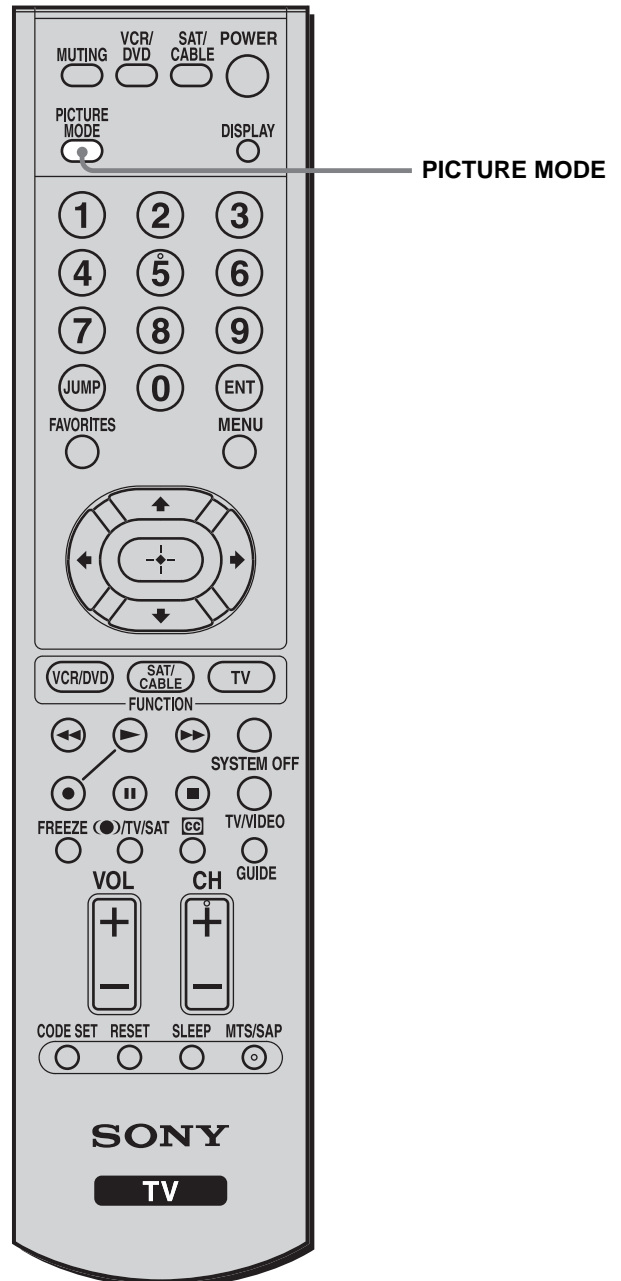
You can select Caption Vision on the menu screen. Select "Caption Vision" in the  (Setup) menu, then select the desired Caption Vision.

Selecting the Picture Mode

You can select one of three different Picture Modes that best suits the program you are watching.

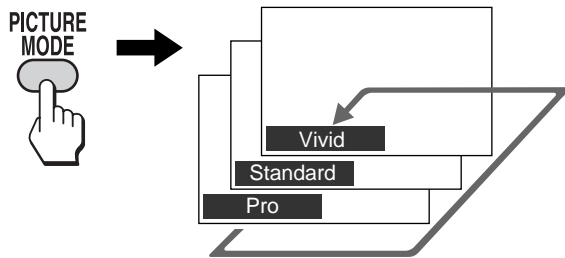
Furthermore, you can adjust the picture quality for each Picture Mode (See pages 37, 38).

You can set a different Picture Mode for each video input that can be selected using the TV/VIDEO button, and store it in memory.



Press PICTURE MODE repeatedly until the desired mode appears.

Each time you press the button, the Picture Mode changes as follows:



Picture Mode	Description
Vivid	Select for enhanced picture contrast and sharpness.
Standard	Select to display a picture with contrast to suit your room's lighting conditions. This mode is recommended for normal viewing conditions.
Pro	Select for professional monitor-like appearance.

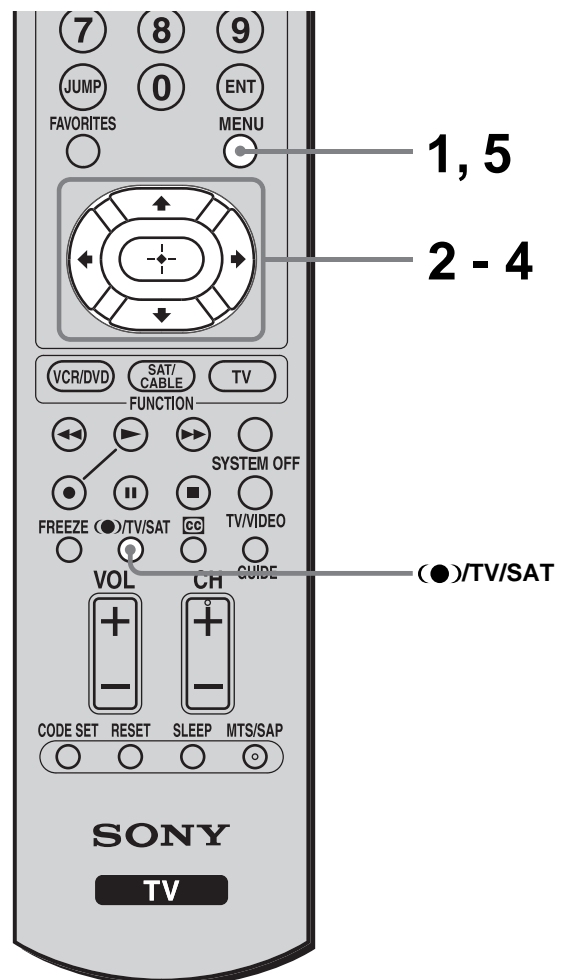
Tip

You can adjust the picture quality options, such as "Picture," "Brightness," and "Color," for each Picture Mode (See pages 37, 38).

Selecting the Effect Mode

"SRS WOW"* creates a panoramic stereo audio image by producing deep and rich bass tones and clear treble tones, enabling you to enjoy powerful sounds effects like those in a movie theater. You can set the Effect mode for each video input that can be selected using the TV/VIDEO button, and store it in memory.

* "SRS WOW" increases the sound quality of a diverse range of audio sources dramatically based on proprietary state-of-the-art technologies from SRS Labs, Inc. WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.



Notes

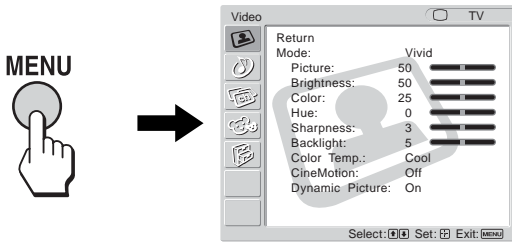
- You cannot select the Effect mode if the TV's speaker is set to off.
- The Effect mode is valid only on the TV's speakers. So you cannot enjoy sound effects of SRS WOW when you listen to a program through the AUDIO OUT jacks or on headphones.
- SRS WOW may be restricted in the effects it produces when you listen to a program in monaural.

(Continued)

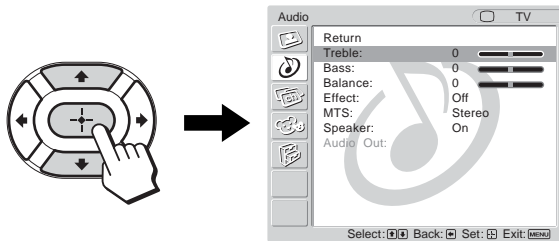
Tip

You can adjust other sound quality options. For details, see “Adjusting the Sound Quality” on page 39.

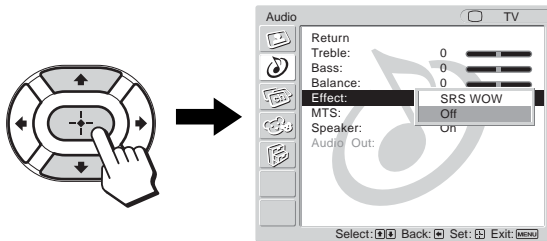
1 Press MENU.



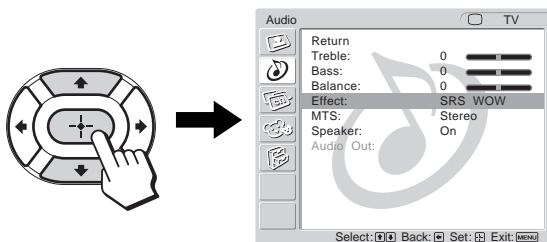
2 Press \uparrow/\downarrow to select (Audio), then press \leftarrow .



3 Press \uparrow/\downarrow to select “Effect,” then press \leftarrow .



4 Press \uparrow/\downarrow to select “SRS WOW,” then press \leftarrow .



5 Press MENU to exit the menu screen.

Tip

Pressing the /TV/SAT button also lets you select “SRS WOW” and “Off.”

Using the 16:9 Enhanced Feature

The 16:9 Enhanced feature provides enhanced picture resolution, which allows you to watch widescreen pictures that have been stretched in the vertical direction, such as certain DVD titles, at their original 16:9 aspect ratio.

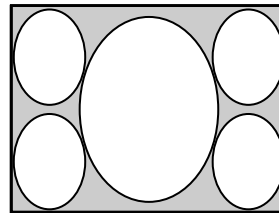
Note

The 16:9 Enhanced feature is available only when the TV is set to Video 1, Video 2 or Video 3, which you can do by pressing the TV/VIDEO button (See page 28).

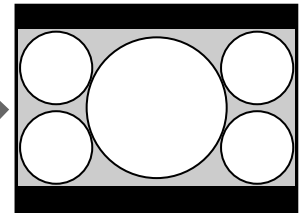
Tip

The “aspect ratio” is the ratio of width to height of the screen. 16:9 is also referred to as widescreen format.

Original Picture



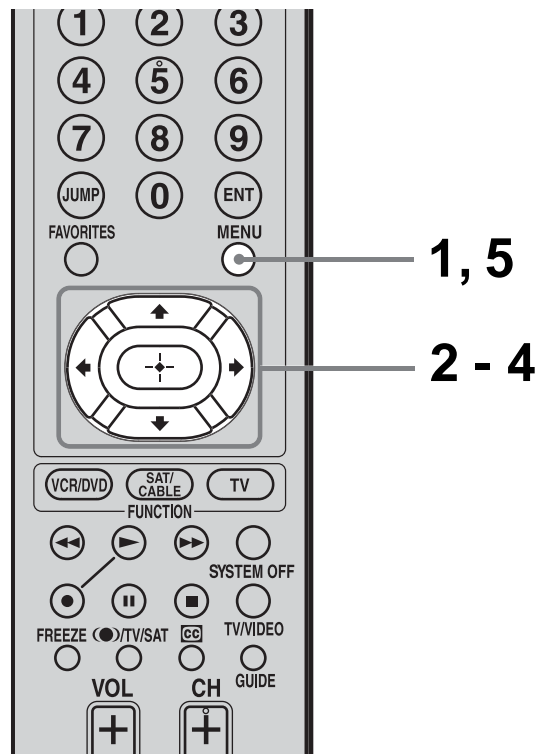
16:9 Enhanced Picture



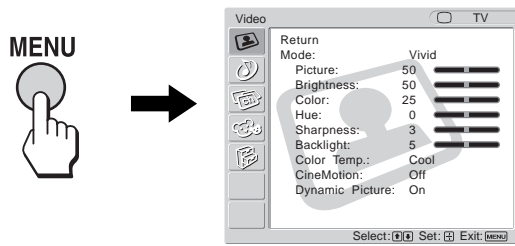
- Wide screen video camera or DVD picture
- DTV 16:9 aspect ratio picture

Compressed vertically and displayed on the screen at its original 16:9 aspect ratio.

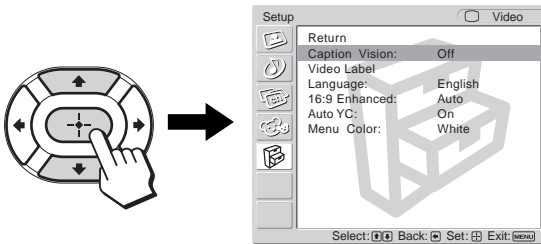
However, black bands appear at the top and bottom of the picture.




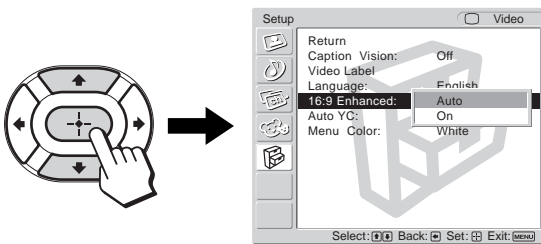
1 Press MENU.




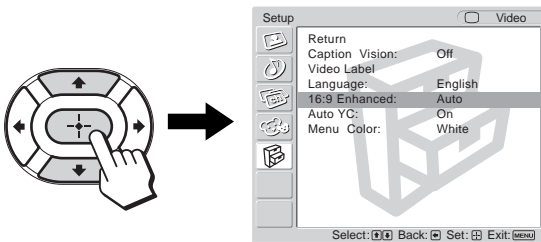
2 Press \uparrow/\downarrow to select  (Setup), then press .



3 Press \uparrow/\downarrow to select “16:9 Enhanced,” then press .



4 Press \uparrow/\downarrow to select “Auto,” then press .



Option	Description
On	Activates the 16:9 Enhanced feature. This setting returns to “Auto” automatically when you change the video input.
Auto	Activates the 16:9 Enhanced feature automatically when a 16:9 aspect ratio signal is received.

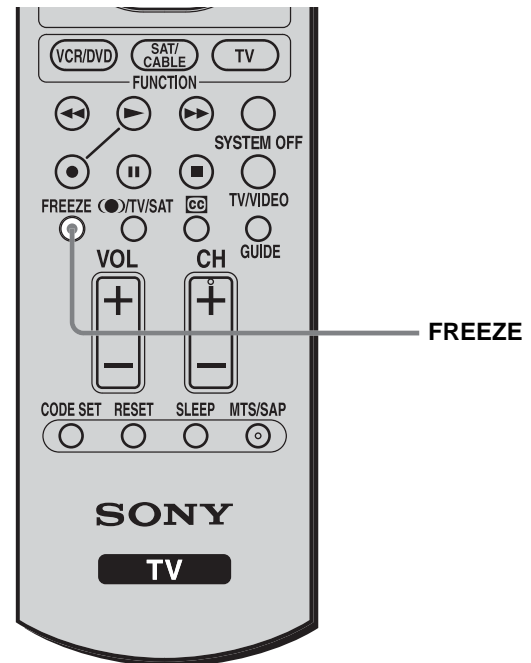
Tips

- If the TV does not automatically detect the 16:9 aspect ratio signal when “16:9 Enhanced” is set to “Auto,” select “On” to turn on the 16:9 Enhanced feature.
- To use the 16:9 Enhanced feature with widescreen DVDs, set the TV’s aspect ratio to 16:9 on your DVD player.

5 Press MENU to exit the menu screen.

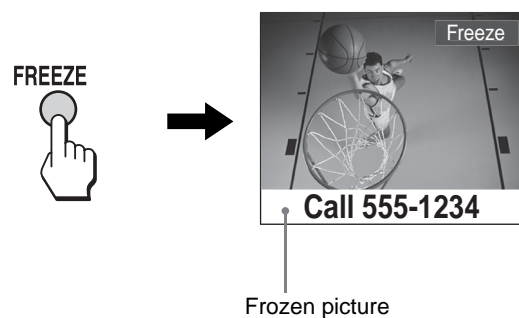
Using the Freeze Function

You can use this feature to write down information such as phone numbers, recipes, etc.



When the program information you want to capture is displayed, press FREEZE.

The picture freezes. Press FREEZE again, and the frozen picture is released, and the picture begins to move again.

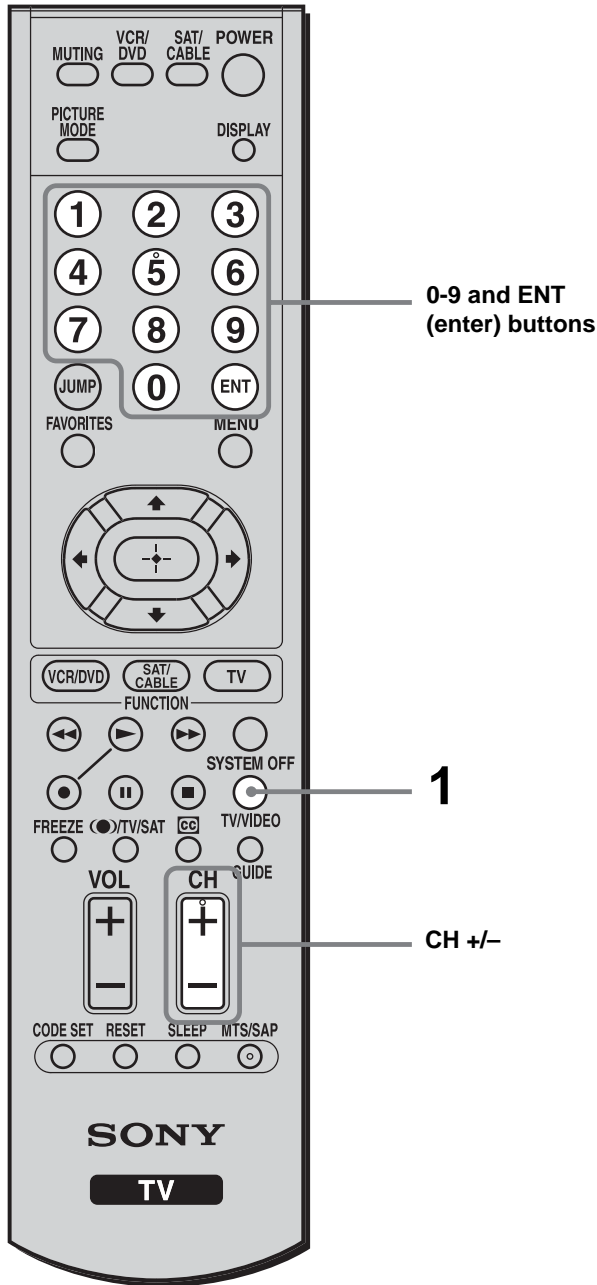


Tip

While the picture is frozen, the sound continues to be output normally.

Setting the Video Inputs


You can enjoy images (and sound) from optional video equipment connected to this unit by selecting the appropriate input. For details on connection, see pages 8 through 19.



1 Press TV/VIDEO repeatedly until the desired video input appears.


Each time you press TV/VIDEO, the input changes as follows:

Select	Display indication
• TV	TV
• VIDEO 1 IN	Video 1*
• VIDEO 2 IN	Video 2*
• VIDEO 3 IN	Video 3**

* "S Video 1" or "S Video 2" will appear instead if you use S VIDEO input and if "Auto YC" in the  (Setup) menu is set to "On" (page 12).

** The type of picture signal (480i or 480p) appears under "Video 3."

Tips

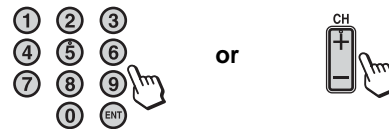
- You can also select the inputs by using the TV/VIDEO button on the TV.
- When you have preset a label for each video input using "Video Label" in the  (Setup) menu, the label will be displayed (see page 29).

2 Operate the selected optional equipment.

For details, see "Operating Video Equipment with Your TV Remote Control" on page 30, or refer to the instructions supplied with each equipment.

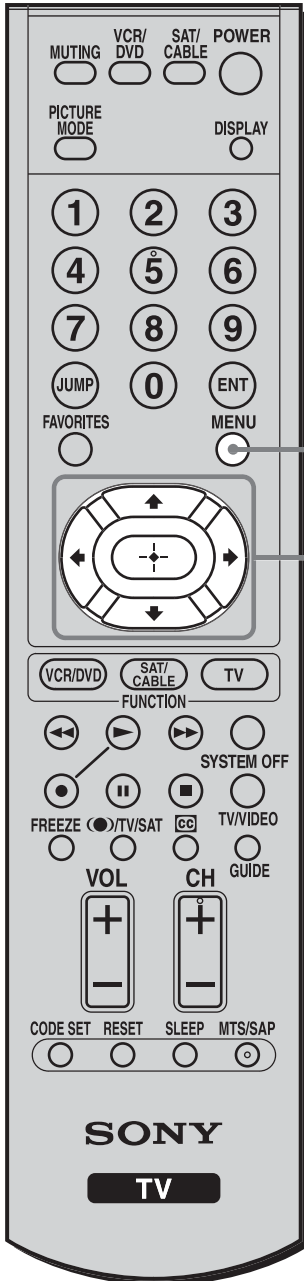
To return to watch the TV

Press the 0-9 and ENT (enter) buttons or CH +/-.

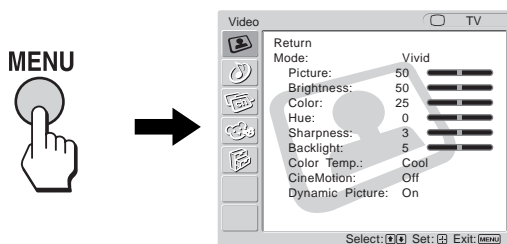


Using the Video Label Feature

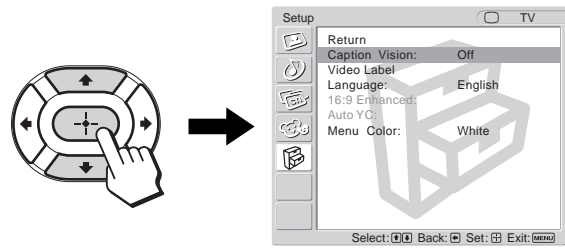
You can make settings for each video input by choosing the label displayed on the screen.



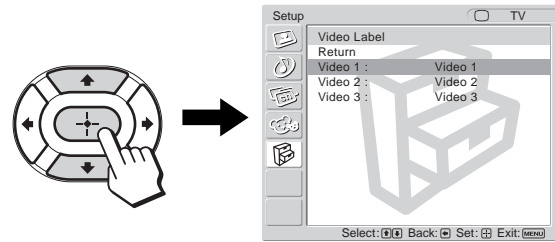
1 Press MENU.



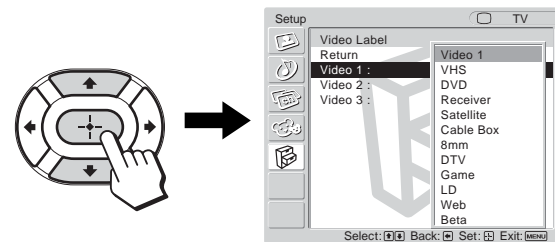
2 Press \uparrow/\downarrow to select (Setup), then press \leftarrow/\rightarrow .



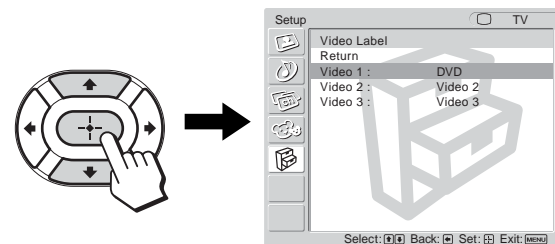
3 Press \uparrow/\downarrow to select "Video Label," then press \leftarrow/\rightarrow .



4 Press \uparrow/\downarrow to select the video input (Video 1-3) you want to assign a label, then press \leftarrow/\rightarrow .



5 Press \uparrow/\downarrow to select the label, then press \leftarrow/\rightarrow .



6 Repeat steps 4 and 5 to assign labels to more video inputs.

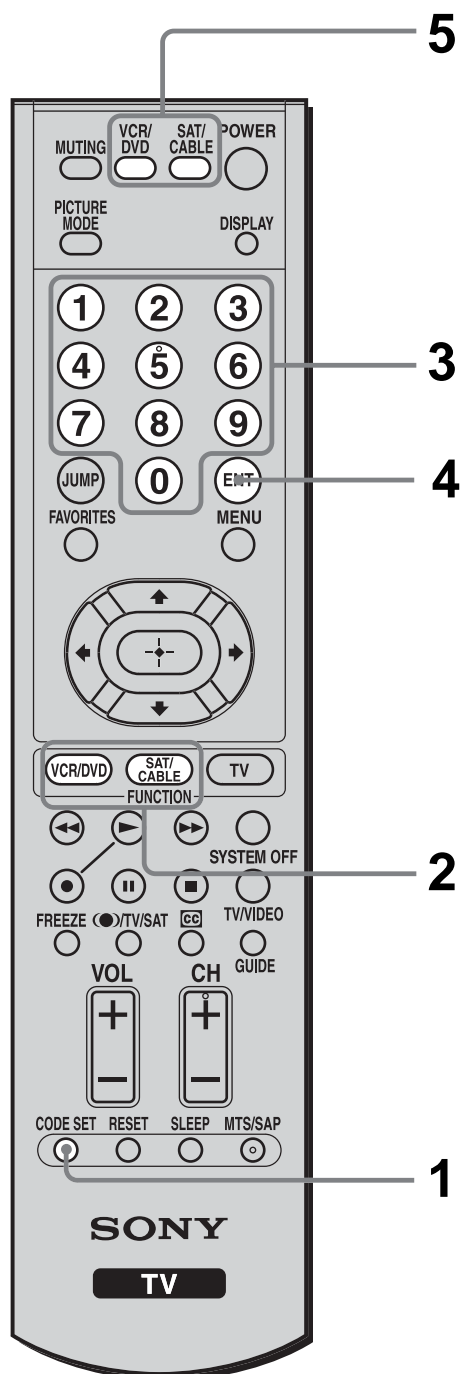
You can select from the following labels for each input.

Video 1, 2	VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Web, Beta
Video 3	DVD, Satellite, Cable Box

7 Press MENU to exit the menu screen.

Operating Video Equipment with Your TV Remote Control

Programming the remote control



The remote control is preset to operate Sony video equipment.

Sony equipment	Programmable code number
Beta, ED Beta VCRs	303
8mm VCR	302
VHS VCR	301
DV VCR	348
DVD player	751

If you have video equipment other than Sony video equipment that you want to control with the TV's remote control, use the following procedures to program the remote control.

Note

The equipment must have infrared (IR) remote capability in order to be used with this remote control.

From the "Manufacturer's codes" listed on page 31, select the three-digit code number for the manufacturer's code of your equipment. If more than one code number is listed, start with the number listed first. Use the code number to complete the following procedure.

- 1 Press CODE SET.
- 2 Press the function button you want to program.
To program a cable box or a satellite receiver
 Press SAT/CABLE (FUNCTION).
To program video equipment
 Press VCR/DVD (FUNCTION).
- 3 Enter the three-digit manufacturer's code number using the 0-9 buttons.
- 4 Press ENT (enter).
- 5 To check if the code number works, aim the TV's remote control at the equipment and press the VCR/DVD and/or SAT/CABLE (POWER) button that corresponds with that equipment. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

Tips

- If more than one number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the Sony remote control. In this case, use the equipment's own remote control unit.

Manufacturer's codes**VCRs**

Manufacturer	Code
Sony	301
Admiral (M. Ward)	327
Aiwa *	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
LG	332
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307

Manufacturer	Code
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

DVD Players

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Cable Boxes

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

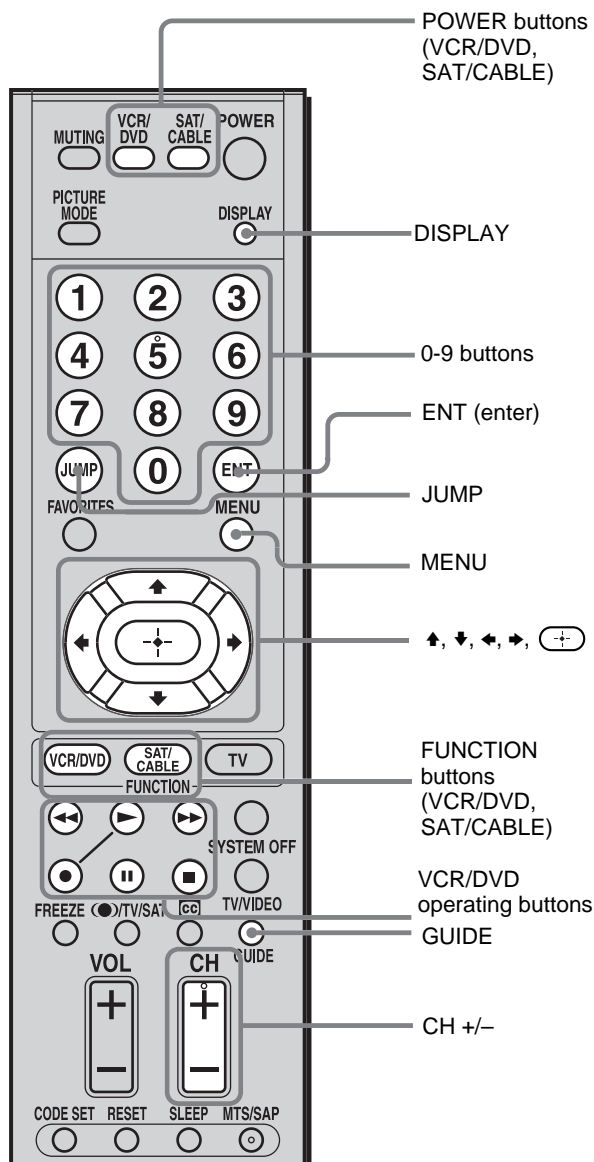
Satellite Receivers

Manufacturer	Code
Sony	801
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

* If an AIWA VCR does not work even though you enter the code for AIWA, enter the code for Sony instead.

(Continued)

Operating optional equipment



Operating a VCR

To	Press
Turn on/off	VCR/DVD (POWER)
Control a VCR	VCR/DVD (FUNCTION)
Change channels	CH +/-
Record	▷ and ○ simultaneously
Play	▷
Stop	□
Fast forward	▷▷
Rewind	◁◁
Pause	▢▢ (press again to resume normal playback)
Search the picture forward or backward	▷▷ or ◁◁ during playback (release to resume normal playback)

Operating a DVD player

To	Press
Turn on/off	VCR/DVD (POWER)
Control a DVD player	VCR/DVD (FUNCTION)
Play	▷
Stop	□
Pause	▢▢ (press again to resume normal playback)
Step through different tracks of an audio disc	▷▷ to step forward or ◁◁ to step backward
Step through different chapters of a video disc	CH + to step forward or CH - to step backward
Select a track directly	0-9 buttons
Display the menu (Setup)	MENU
Operate the DVD menu	↑, ↓, ←, →, (+)

Operating a cable box

To	Press
Turn on/off	SAT/CABLE (POWER)
Control a cable box	SAT/CABLE (FUNCTION)
Select a channel	0-9 buttons, ENT (enter)
Change channels	CH +/-
Go to the previous channel	JUMP

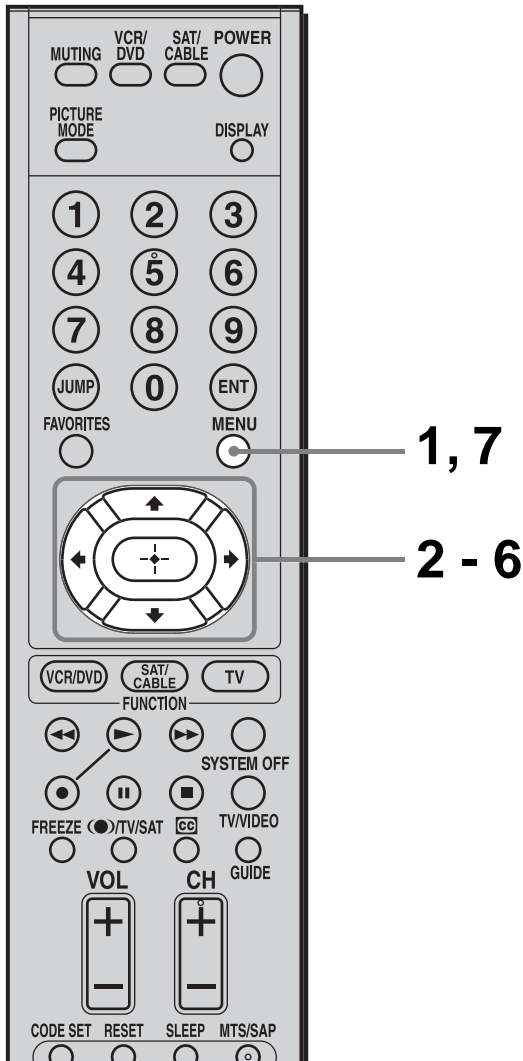
Operating a satellite receiver

To	Press
Turn on/off	SAT/CABLE (POWER)
Control a satellite receiver	SAT/CABLE (FUNCTION)
Select a channel	0-9 buttons, ENT (enter)
Change channels	CH +/-
Go to the previous channel	JUMP
Display the channel number	DISPLAY
Display the DBS guide	GUIDE
Display the DBS menu	MENU
Move the highlight (cursor)	↑, ↓, ←, →
Select the item	(+)

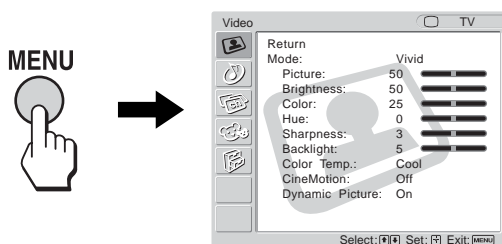
Using Favorite Channels

You can select programs from a list of favorite channels that you preset.

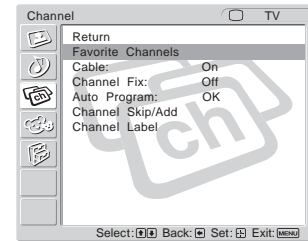
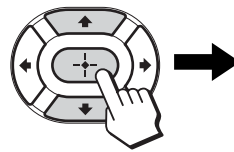
Setting your favorite channels




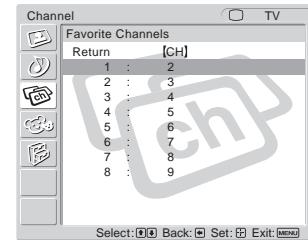
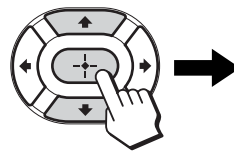
- 1** Press MENU.



- 2** Press \uparrow/\downarrow to select  (Channel), then press .




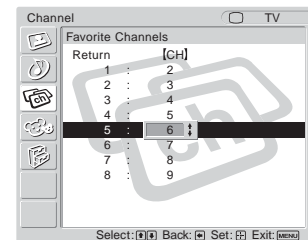
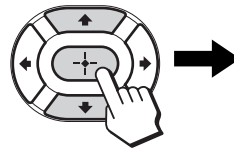
- 3** Press \uparrow/\downarrow to select "Favorite Channels," then press .




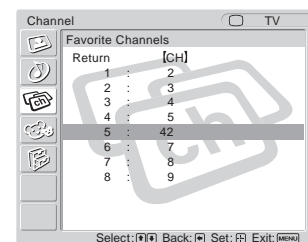
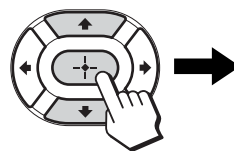
Tip

If you cannot select "Favorite Channels," change the input to TV by pressing the TV/VIDEO button.

- 4** Press \uparrow/\downarrow to select the position you want to change, then press .



- 5** Press \uparrow/\downarrow to scroll through the channels until you find the desired channel, then press .

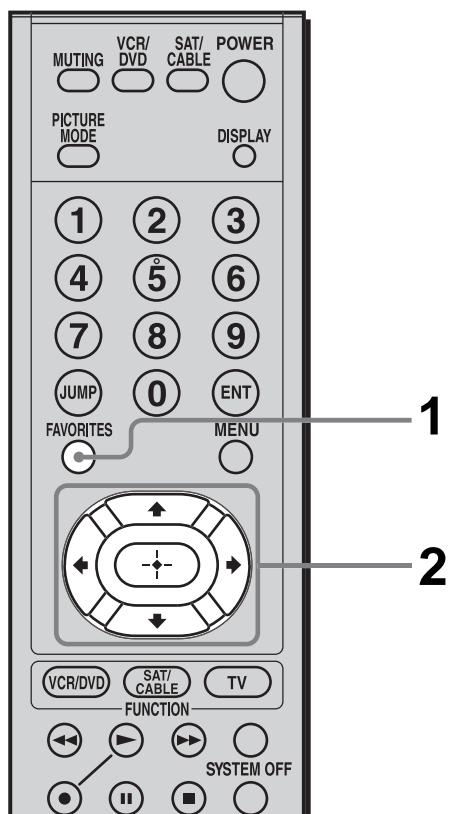


- 6** Repeat steps 4 and 5 to program other favorite channels.

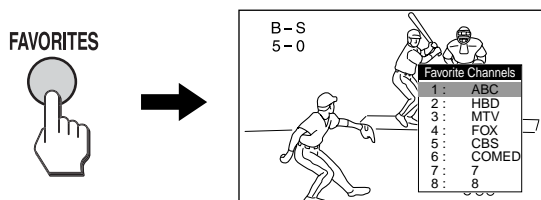
- 7** Press MENU to exit the menu screen.

(Continued)

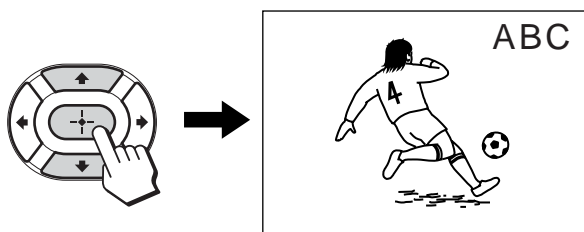
Watching favorite channels




- 1 Press FAVORITES.
The Favorite Channels options appear.



- 2 Press \uparrow/\downarrow to select the desired channel, then press $\left[\begin{smallmatrix} + \\ - \end{smallmatrix} \right]$.
The selected channel will be displayed.

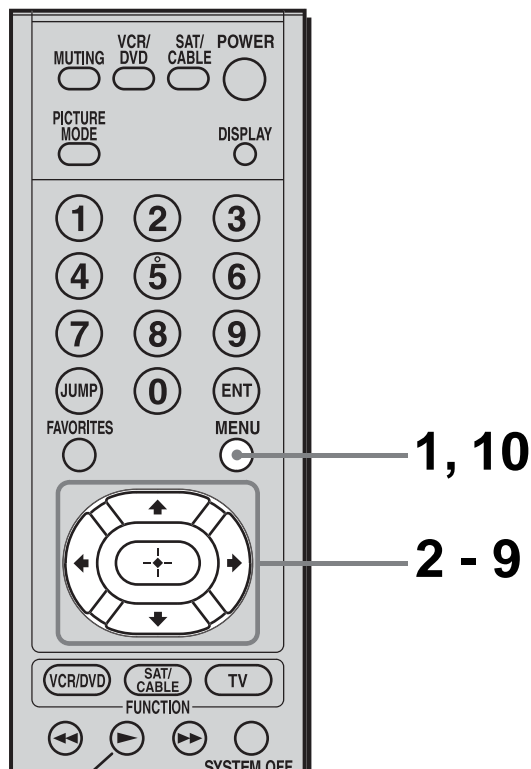


Tip

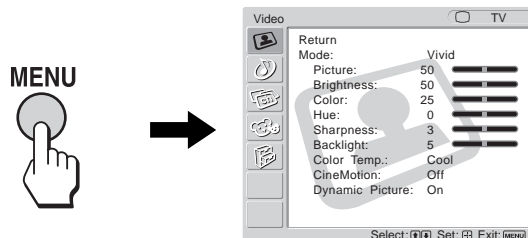
If you make an optional label using "Channel Label" in the  (Channel) menu, that label will be displayed on the screen.

Using the Channel Label Feature

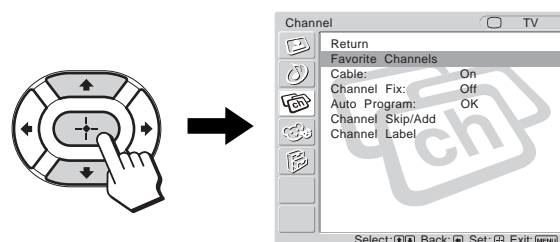
If you have set an optional label for the channel display or for Favorite Channels, you can have that label displayed on the screen.



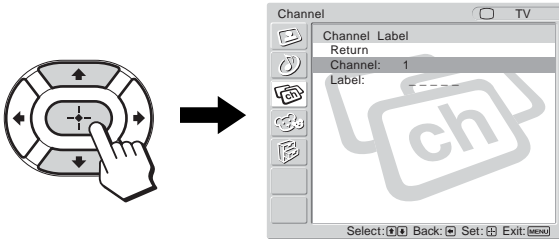
- 1 Press MENU.



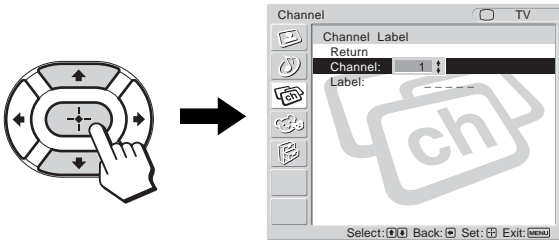
- 2 Press \uparrow/\downarrow to select  (Channel), then press $\left[\begin{smallmatrix} + \\ - \end{smallmatrix} \right]$.



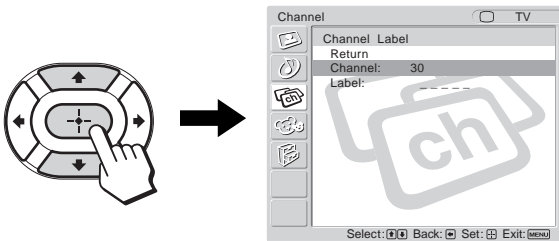
- 3** Press \uparrow/\downarrow to select “Channel Label,” then press \ominus .



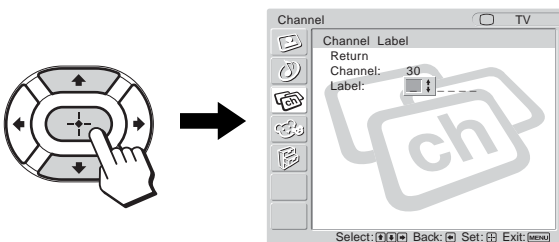
- 4** Press \uparrow/\downarrow to select “Channel”, then press \ominus .



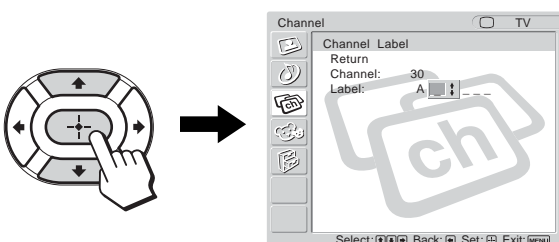
- 5** Press \uparrow/\downarrow to scroll through the channel numbers you want to assign a label, then press \ominus .



- 6** Press \uparrow/\downarrow to select the “Label,” then press \ominus .



- 7** Press \uparrow/\downarrow to scroll through the label characters (A-Z, 0-9, etc.), then press \ominus .



- 8** Repeat to add up to 5 characters to the label.

- 9** Repeat steps 4 - 8 to assign labels to more channels.

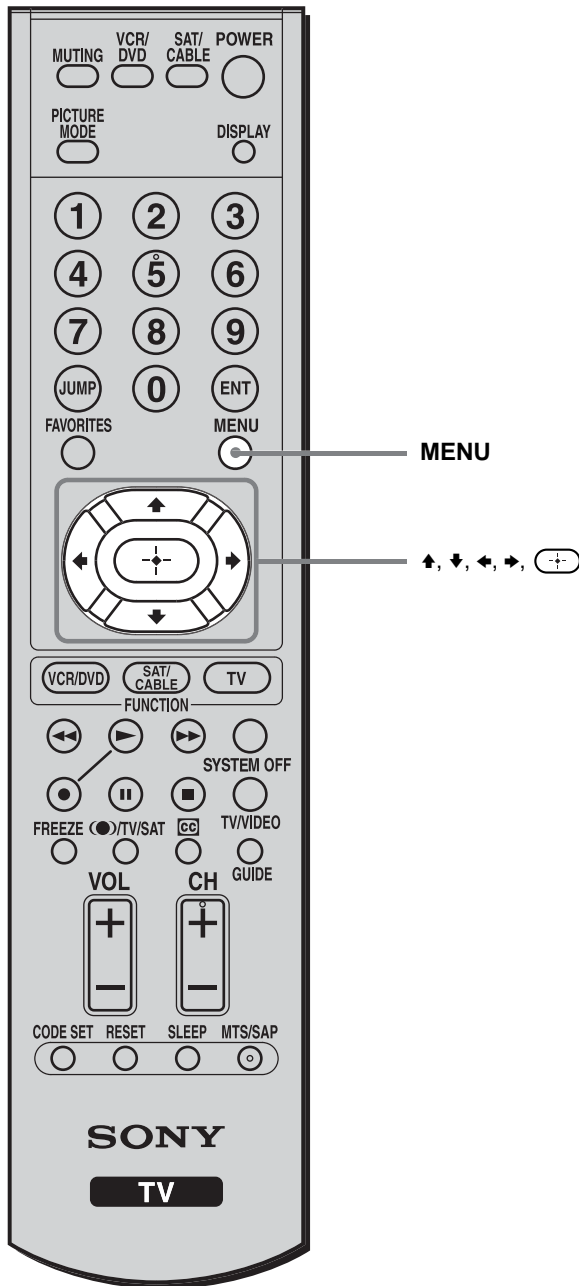
- 10** Press MENU to exit the menu screen.

Using Advanced Features

Using the Menu

Most of advanced settings and adjustments are performed using the menu screen. Basic operations to navigate through menus are described below.

- Items which appear in yellow are selected.
- You cannot select items which appear in pale color.

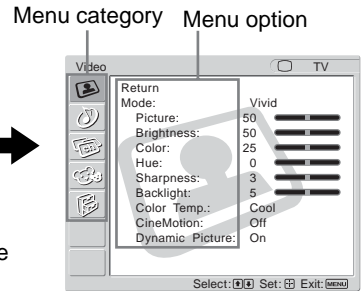


To open the menu screen and select the option

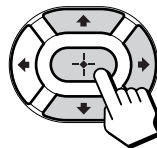


Press MENU to open the menu screen.

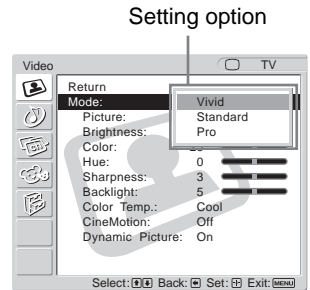
Press ↑/↓ to select the desired category, then press (+/-).



To exit the menu screen, press MENU again.



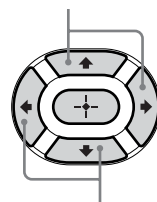
Press ↑/↓ to select the option, then press → or (+/-). (The → button cannot be used on some menus.)



(Example: when selecting "Mode" in the (Video) menu)

To adjust the setting

Maximize the setting value



Minimize the setting value



(Example: when selecting "Picture" in the (Video) menu)

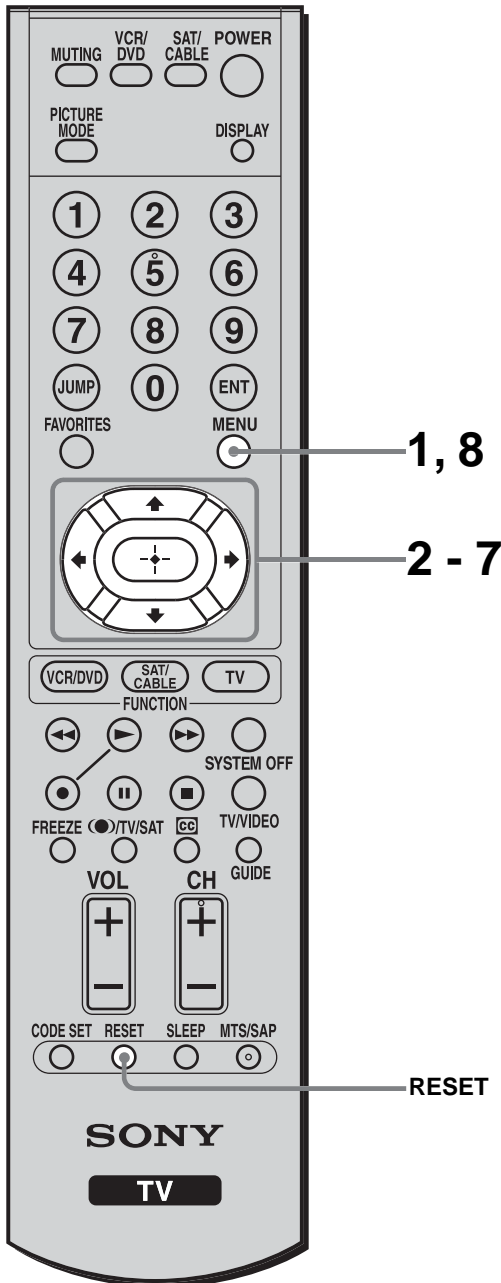
To change the menu color

You can choose the menu color from two types by selecting "Menu Color" in the (Setup) menu, then selecting "White" or "Black."

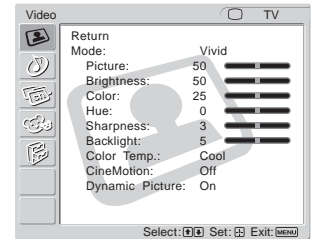
Adjusting the Picture Quality

You can adjust the picture quality for each Picture Mode (“Vivid,” “Standard,” or “Pro”).

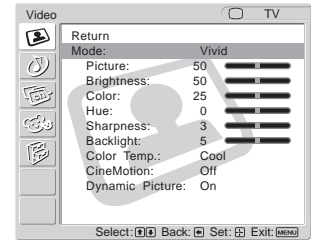
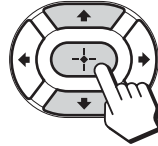
You can adjust the picture quality differently for each video input which can be selected using the TV/VIDEO button, and store it in memory.



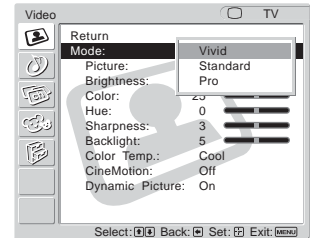
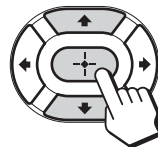
1 Press MENU.



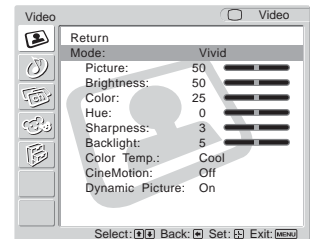
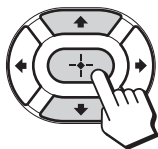
2 Press \uparrow/\downarrow to select  (Video), then press \leftarrow .



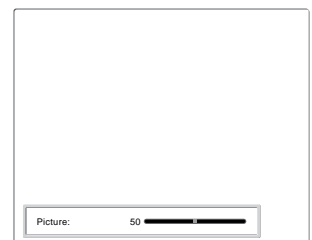
3 Press \uparrow/\downarrow to select “Mode,” then press \leftarrow .



4 Press \uparrow/\downarrow to select the Picture Mode you want to adjust, then press \leftarrow .

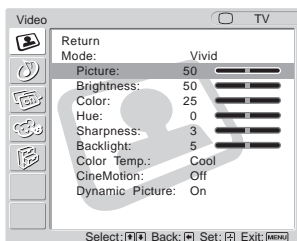
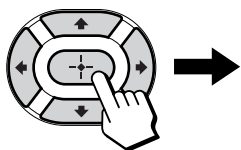


5 Press \uparrow/\downarrow to select “Picture,” then press \leftarrow .



(Continued)

- 6 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to make the desired adjustment, then press \ominus .



Adjustable options

Option	Press \downarrow/\leftarrow	Press \uparrow/\rightarrow
Picture	To reduce picture contrast.	To enhance picture contrast.
Brightness	To darken the picture.	To brighten the picture.
Color	To decrease color intensity.	To increase color intensity.
Hue*	To decrease the green tones.	To increase the green tones.
Sharpness	To soften the picture.	To sharpen the picture.
Backlight	To darken the screen.	To brighten the screen.

* The adjustment is not available for the 480i, 480p, 1080i and 720p signals input to VIDEO 3 IN.

Tip

You can adjust each option by referring to the value beside each option indicator.

Selective options

Option	Description	Setting
Color Temp. (Color Temperature)	Select to give bright colors a red tint.	Cool/Normal/ Warm
CineMotion	Select to provide an optimized display by automatically detecting film content. Moving pictures will become clearer and more natural. When the super imposed text on the film content appears corrupted, please turn CineMotion off.	On/Off
Dynamic Picture	Select to enhance the picture contrast.	On/Off

- 7 Repeat steps 5 and 6 to adjust other options.

- 8 Press MENU to exit the menu screen.

To reset to the factory settings

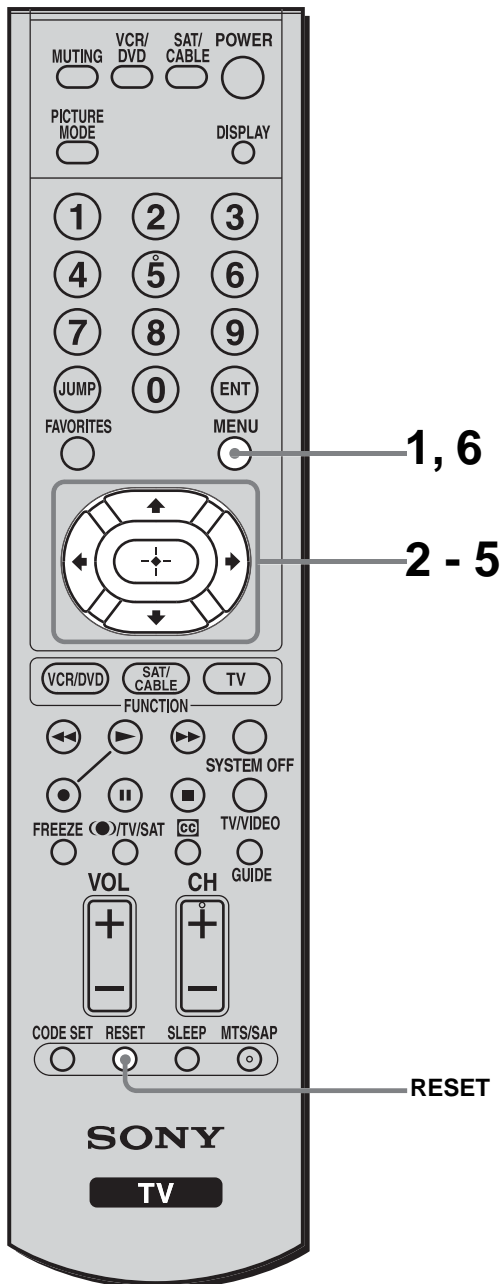
Press RESET while the menu is on the screen and the cursor is located on the right side of any menu item.

RESET

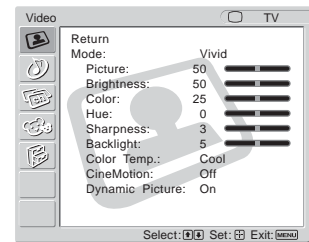


Adjusting the Sound Quality

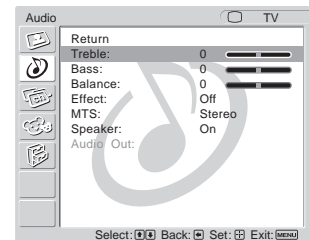
You can adjust the sound quality differently for each video input which can be selected using the TV/VIDEO button, and store it in memory. For details on the Effect mode, see pages 25 and 26.



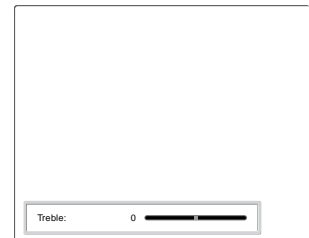
1 Press MENU.



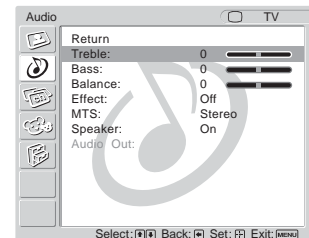
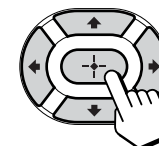
2 Press \uparrow/\downarrow to select (Audio), then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



3 Press \uparrow/\downarrow to select the option you want to adjust, then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



4 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to make the desired adjustment, then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



Option	Press \downarrow/\leftarrow	Press \uparrow/\rightarrow
Treble*	To decrease higher-pitched sounds.	To increase higher-pitched sounds.
Bass*	To decrease lower-pitched sounds.	To increase lower-pitched sounds.
Balance*	To emphasize the left speaker.	To emphasize the right speaker.
Effect**	See page 25.	

* To adjust any of these options, set "Speaker" in the (AUDIO) menu to "ON," or "Audio Out" to "Variable" first.

** To adjust the option, set "Speaker" in the (AUDIO) menu to "ON" first.

Tip

You can adjust each option by referring to the value beside each option indicator.

5 Repeat steps 3 and 4 to adjust other options.

6 Press MENU to exit the menu screen.

To reset to the factory settings

Press RESET while the menu is on the screen and the cursor is located on the right side of any menu item.

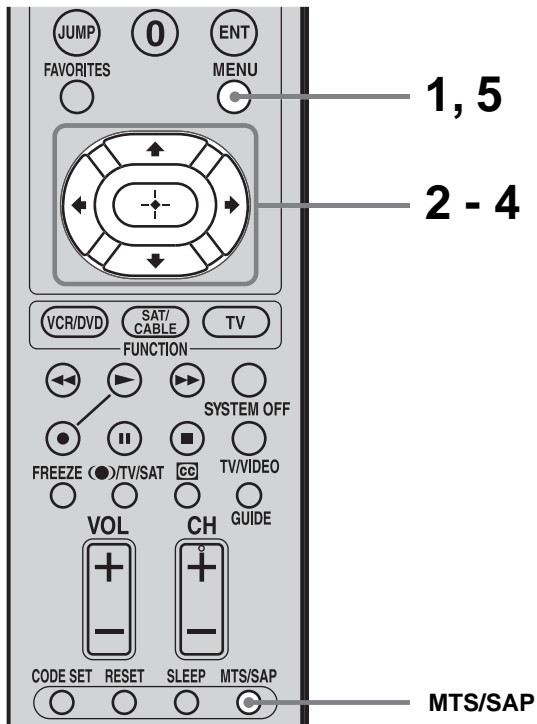


Note

Resetting the unit to the factory settings resets only Treble, Bass and Balance.

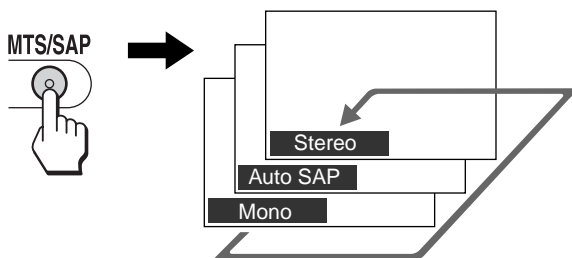
Selecting Stereo or Bilingual Programs

You can enjoy stereo, bilingual and mono programs.



Press MTS/SAP repeatedly until the desired sound indication appears.

Each time you press the button, the sound indication changes as follows:

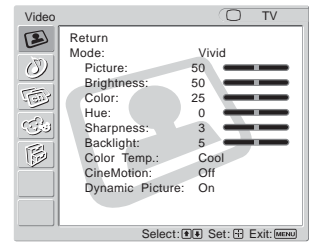


Sound indication*	Description
Stereo	Select for stereo reception when viewing a program broadcast in stereo.
Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)
Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)

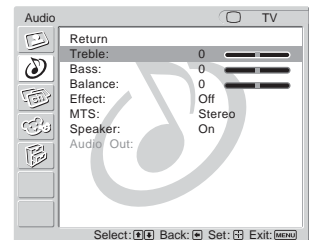
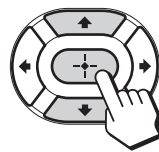
* This is available only for TV broadcasting.

Selecting stereo or bilingual programs using the menu

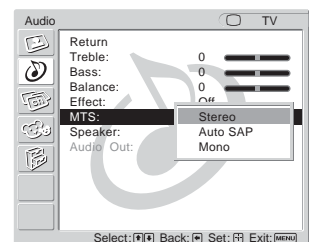
1 Press MENU.



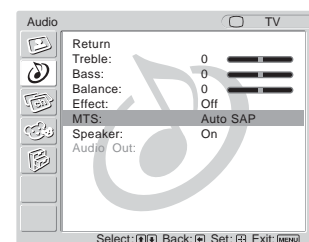
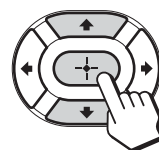
2 Press \uparrow/\downarrow to select  (Audio), then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



3 Press \uparrow/\downarrow to select "MTS," then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



4 Press \uparrow/\downarrow to select the desired reception, then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



5 Press MENU to exit the menu screen.

Using the Parental Control Feature

The TV programs and movies shown on TV are given a rating signal based on the following rating systems.

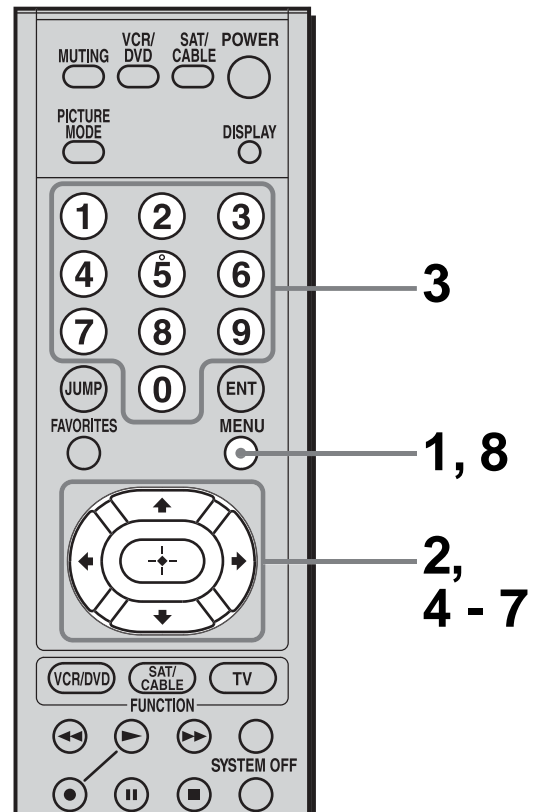
In U.S.A.: U.S. Television Parental Guidelines to rate television programs (U.S. TV ratings), and Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings).

In Canada: Canadian English Language ratings to rate television programs in English, and Canadian French Language ratings to rate those in French.

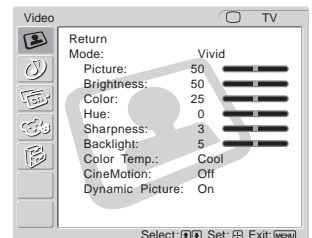
To block programs you feel unsuitable for your children, you need to set the TV for the desired rating systems. Sony's predetermined ratings are also available. See page 46 for a description of the ratings.

The TV's Parental Control feature functions by receiving the rating signal from your local broadcasting station or cable service provider.

Activating the Parental Control feature



1 Press MENU.

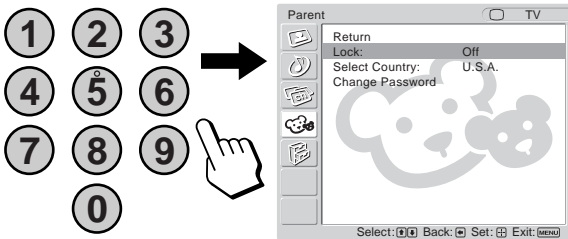


2 Press \uparrow/\downarrow to select  (Parent), then press .

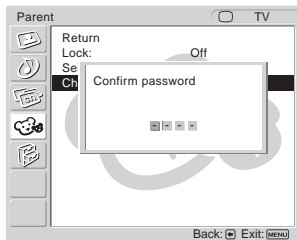


- 3** Enter a four-digit password using the 0-9 buttons.

The Parent menu options appear.



If you access the Parent menu for the first time, you are requested to enter the password again for confirmation.



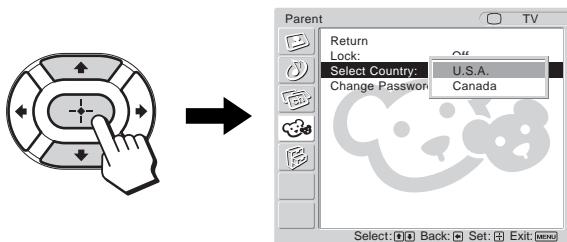
Note

Do not enter "4357" corresponding to "HELP" on a phone number pad (See page 44).

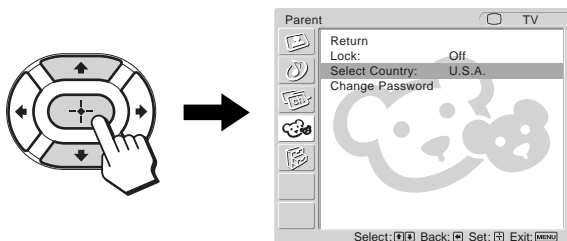
Tips

- You need to enter the password here for any further access into the Parent menu. If you lose your password, see "Tip" on page 44.
- If you want to change the password, see page 44.

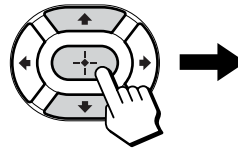
- 4** Press \uparrow/\downarrow to select "Select Country," then press \oplus .



- 5** Press \uparrow/\downarrow to select your country/region (U.S.A. or Canada), then press \oplus .

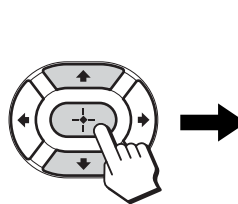


- 6** Press \uparrow/\downarrow to select "Lock," then press \oplus .



- 7** Press \uparrow/\downarrow to select a desired rating, then press \oplus .

If you select "Child," "Youth," or "Y.Adult" (Young Adult), the Parental Control is activated automatically.



Tip

If you are not familiar with the Parental Guideline rating system, you should select "Child," "Youth," or "Y.Adult" to help simplify the rating selection. To set more restrictive ratings, select "Custom" (See "Selecting a Custom Rating" on page 44).

- 8** Press MENU to exit the menu screen.


Viewing blocked programs

You can view blocked programs by entering the password.

- 1 Press ENT (enter) when tuned to a blocked program.
- 2 Enter your password using the 0-9 buttons.


The Parental Control feature will be canceled temporarily until you turn the TV off.

To deactivate the Parental Control feature

Set "Lock" to "Off" in the  (Parent) menu.

(Continued)


To change the password

- 1 Press MENU.
- 2 Press \uparrow/\downarrow to select  (Parent), then press \oplus .
- 3 Enter your four-digit password using the 0-9 buttons.
The Parent menu options appear.
- 4 Press \uparrow/\downarrow to select "Change Password," then press \oplus .
- 5 Enter a new four-digit password using 0-9 buttons.
- 6 Enter the password set in step 5 again to confirm.
- 7 Press MENU to exit the menu screen.

Tip

If you have forgotten your password, enter the master password "4357" (corresponding to "HELP" on a phone number pad) in step 3. You can then store a new password.

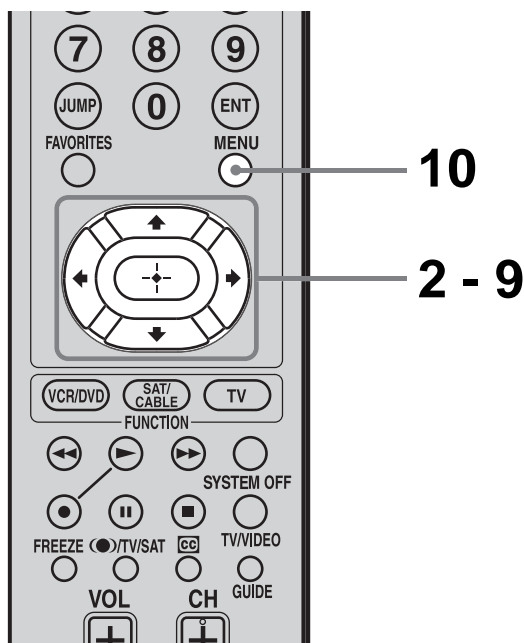
Notes

- If you entered "4357" as your password for the first time, you cannot store a new password (See step 3 of "Activating the Parental Control feature" on page 42).
- When you select a Parental Control program and the  indicator is displayed on the screen, you cannot view that program even if you enter "4357" (See "Viewing blocked programs" on page 43).

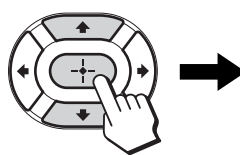
Selecting a Custom Rating

If you want to select the ratings to be blocked from "Custom" once you have activated the Parental Control feature (page 42), follow the procedure below.

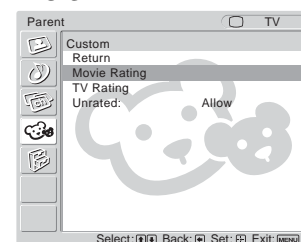
For a detailed description of each rating, see "What the Ratings Mean" on page 46.



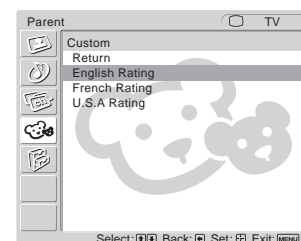
- 1 Perform steps 1 to 6 in "Activating the Parental Control feature" on page 42 to display the Lock options.
- 2 Press \uparrow/\downarrow to select "Custom," then press \oplus .



In U.S.A.

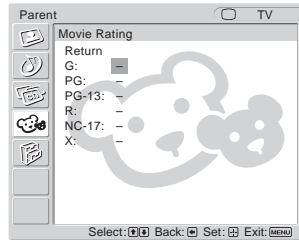
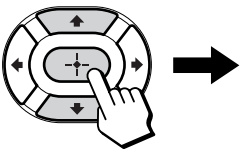


In Canada

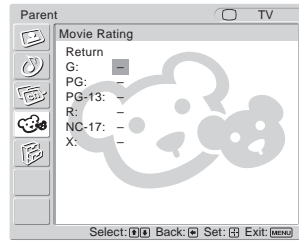
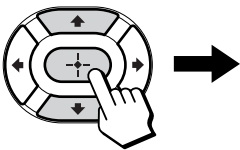



To select a rating in Canada, go to step 6.

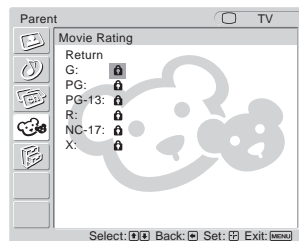
- 3** Press \uparrow/\downarrow to select “Movie Rating,” then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.





- 4** Press \uparrow/\downarrow to select the rating to be blocked, then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



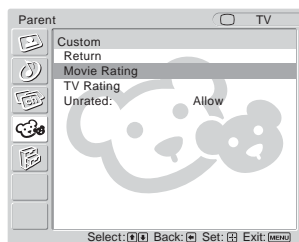
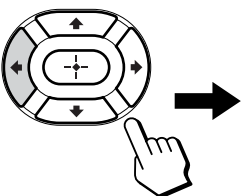
The  indication automatically appears beside the selected rating and all ratings below it, indicating that the programs that match the ratings will be blocked.



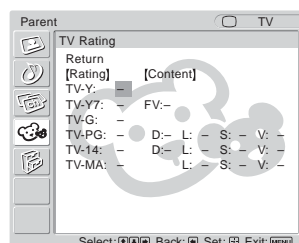
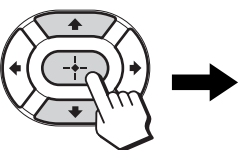
To unlock a rating, select , then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.

The  indication changes into “-” and all ratings above it are unlocked.

- 5** Press \leftarrow to return to the “Custom” menu.

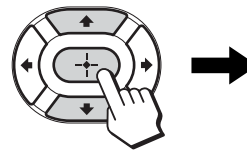


- 6** To select a TV rating in U.S.A.:
Press \uparrow/\downarrow to select “TV Rating,” then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.

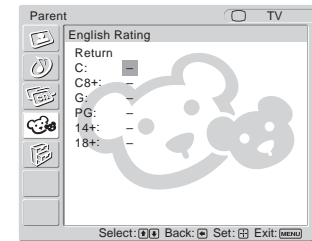


To select a TV rating in Canada:

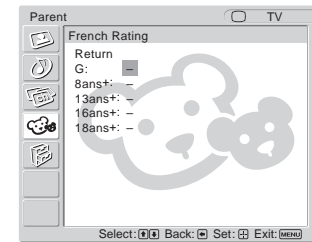
Press \uparrow/\downarrow to select “English Rating,” “French Rating,” or “U.S.A. Rating,” then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.



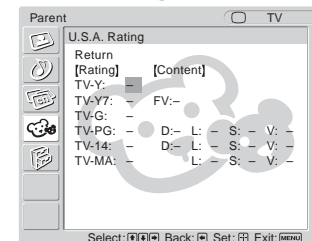
English Rating




French Rating



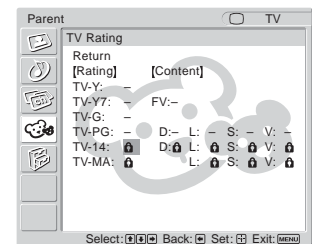
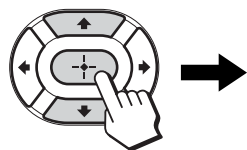
U.S.A. Rating




- 7** Press \uparrow/\downarrow to select the TV rating to be blocked, then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.

The  indication automatically appears beside the selected rating and all ratings below it, indicating that the programs that match the ratings will be blocked.

Example: TV rating in U.S.A.



To unlock a rating, select , then press $\left(\begin{smallmatrix} + \\ - \end{smallmatrix}\right)$.

The  indication changes into “-” and all ratings above it are unlocked.

Some U.S. TV ratings have additional content ratings called “extenders.”

The extenders are defined as follows:
D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence).

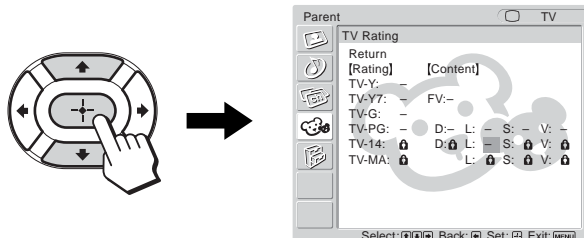
By setting the extenders, you can define additional viewing limits.

For more details of extenders, see page 48.

All of the extenders included in the selected ratings will be blocked. If you want to allow any of them to be viewed, go to step 8. Otherwise, go to step 10.

- 8** Press \leftarrow/\rightarrow to select the extender to be viewed, then press \oplus .

“-” appears beside the selected extender, indicating that the programs that match the extender can be viewed.



To relock the canceled extender, select \mathbb{L} .

The \mathbb{L} indication appears to show that the programs that match the extender will be blocked again.

- 9** Repeat step 8 for other extenders.

All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

- 10** Press MENU to exit the menu screen.

To block programs or movies broadcast without a rating

The unrated option allows you to block programs or movies that are broadcast without a rating.

The unrated option is available only when you have selected U.S.A. as your country/region.

- 1** Perform steps 1 and 2 of “Selecting a Custom Rating” on page 44.
- 2** Press \uparrow/\downarrow to select “Unrated,” then press \oplus .
- 3** Press \uparrow/\downarrow to select “Block,” then press \oplus .

Option	Description
Allow	Allows programs and movies that are broadcast without a rating.
Block	Blocks all programs and movies that are broadcast without a rating.

- 4** Press MENU to exit the menu screen.

Note

If you choose to block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country/region, emergency broadcasts, political programs, sports, news, public service announcements, religious programs, and weather.

What the Ratings Mean

Ratings in the U.S.A.

Sony's predetermined ratings

These are original ratings that Sony has predetermined according to the viewer's age. Each rating allows for viewing of certain programs, as follows:

Option	Description
Child	Suitable for children under the age of 7. Viewable U.S. movie ratings: G, NR, and N/A Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR
Youth	Suitable for children aged 7 and older. Viewable U.S. movie ratings: G, PG, NR, and N/A Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR
Y.Adult (Young Adult)	Suitable for children aged 13 and older. Viewable U.S. movie ratings: G, PG, PG-13, NR, and N/A Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

For descriptions of Child, Youth, and Y.Adult (Young Adult) ratings, see the following custom rating options.

U.S. movie ratings

U.S. movie ratings are for movies (including those shown on TV) rated according to the Motion Picture Association of America (MPAA) Guidelines.

Option	Description
G (General Audiences — All Ages Admitted)	In G-rated films no strong words are used, the violence is at a minimum, nudity and sex scenes are not present, nor is there any drug use.
PG (Parental Guidance Suggested — Some Material May Not Be Suitable For Children)	This is a film which may need to be monitored first by parents.
PG-13 (Parents Strongly Cautioned — Some Material May Be Inappropriate For Children Under 13)	Parents are alerted to be very careful about the attendance of their under-teenage children when viewing.
R (Restricted — Under 17 Requires Accompanying Parent Or Adult Guardian)	This film includes hard language, tough violence, nudity, drug abuse or other elements of concern.
NC-17 or X (No One 17 And Under Admitted)	This is a film that most parents would consider not suitable for children aged 17 and under. There may be violence, sex, abhorrent behavior, drug abuse or other elements of concern.

U.S. TV ratings

U.S. TV ratings are for TV programs rated according to the U.S. Television Parental Guidelines.

Option	Description
TV-Y (All Children)	This program is designed for young children aged 2 - 6 and is appropriate for all children.
TV-Y7 (Directed to Older Children)	This program is designed for children aged 7 and older. Themes and elements in this program may include mild fantasy violence or slapstick violence, or may frighten children under the age of 7.
TV-G (General Audience)	Most parents would find this program suitable for all ages. It contains little or no violence, no strong language and little or no sexual dialog or situations.
TV-PG (Parental Guidance Suggested)	This program contains some material that parents may find unsuitable for younger children.
TV-14 (Parents Strongly Cautioned)	This program contains some material that many parents would find unsuitable for children under the age of 14.
TV-MA (Mature Audience Only)	This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under the age of 17.

(Continued)

About the extenders of U.S. TV ratings

TV-Y7, TV-PG, TV-14 and TV-MA ratings have additional content ratings called “extenders” to define additional viewing limits. The extenders are defined as follows:

Option	Description
FV (Fantasy Violence)	Programs containing cartoon violence occurring in TV-Y7 programs only.
D (sexually suggestive Dialog)	Programs containing suggestive dialog, or sexual innuendo.
L (coarse Language)	Programs containing coarse language.
S (Sexual situations)	Programs containing sexual content.
V (Violence)	Programs containing violence. There may be some profanity, violence or brief nudity in these programs.

Ratings in Canada

Sony’s predetermined ratings

These are original ratings that Sony has predetermined according to the viewer’s age. Each rating allows you to view the certain programs, as follows:

Option	Description
Child	Suitable for children under the age of 8. Viewable Canadian English Language ratings: C and G Viewable Canadian French Language ratings: G Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR
Youth	Suitable for children aged 8 and older. Viewable Canadian English Language ratings: C, G, C8+, and PG Viewable Canadian French Language ratings: G and 8 ans+ Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR
Y.Adult (Young Adult)	Suitable for children aged 14 and older. Viewable Canadian English Language ratings: C, G, C8+, PG, and 14+ Viewable Canadian French Language ratings: G, 8 ans+, and 13 ans+ Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

For descriptions of Child, Youth, and Y.Adult (Young Adult) ratings, see the following custom rating options.

Canadian English Language ratings

The Canadian English Language ratings are for TV programs in English broadcast in Canada.

Option	Description
C (Programming intended for children under the age of 8)	There will be no realistic scenes of violence or no offensive language, nudity or sexual content. Careful attention is paid to themes, which could threaten children's sense of security and well-being.
C8+ (Programming generally considered acceptable for children aged 8 and older to watch on their own)	Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. There will be no profanity, nudity or sexual content.
G (General Audience)	Will contain very little violence, either physical or verbal or emotional. There may be some inoffensive slang, no profanity and no nudity.
PG (Parental Guidance)	Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children aged 8 - 13.
14+ (Programming contains themes or content which may not be suitable for viewers under the age of 14)	Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+ (Adult)	May contain violence integral to the development of the plot, character or theme, intended for adult audiences. May contain graphic language and explicit portrayals of nudity and/or sex.

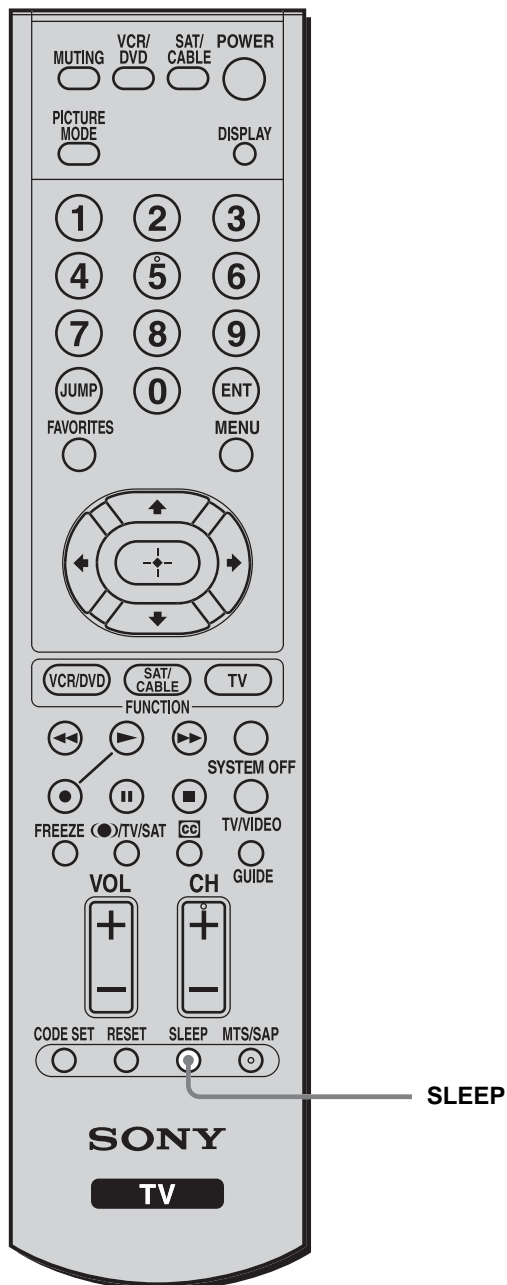
Canadian French Language ratings

The Canadian French Language ratings are for TV programs in French broadcast in Canada.

Option	Description
G (General)	Programming intended for audience of all ages. Contains no violence, or the violence it contains is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans+ (8+ General — Not recommended for young children)	Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is recommended for young children (under the age of 8).
13 ans+ (Programming may not be suitable for children under the age of 13)	Viewing with an adult is strongly recommended for children under the age of 13.
16 ans+ (Programming is not suitable for children under the age of 16)	Contains frequent scenes of violence or intense violence.
18 ans+ (Programming restricted to adults)	Contains constant violence or scenes of extreme violence.

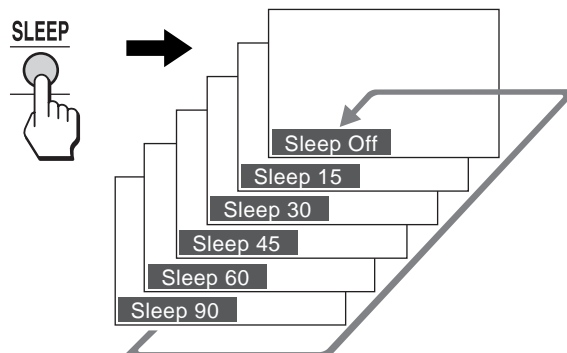
Turning Off the TV Automatically


You can set the TV to turn off automatically after a predetermined period of time (15, 30, 45, 60, or 90 minutes).



Press SLEEP repeatedly until the desired period of time appears.

Each time you press the button, the period of time changes as follows:



While the Sleep timer is activated, the  indicator on the TV lights up in red.

To cancel the Sleep timer

Press SLEEP repeatedly until “Sleep Off” appears.

Tips

- If you turn the TV off, and then turn it on again, the Sleep timer returns to “Off.”
- “TV will turn off soon” appears one minute before the TV shuts off. This message may not appear if you perform any operation with the menu opened.

Additional Information


Troubleshooting

If, after reading the following instructions, you have additional questions related to the use of your Sony TV, please call one of the following numbers.

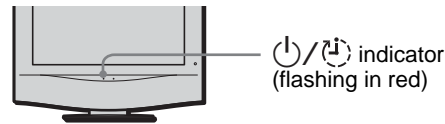
Customers in the continental United States contact the Direct Response Center at:
1-800-222-SONY (7669)


Customers in Canada contact the Customer Relations Center at:
1-877-899-SONY (7669)

Self-diagnosis function

The TV is equipped with a self-diagnosis function. If there is a problem with your TV, the  indicator on the front panel will flash repeatedly in red.

Writing down the duration of flashes and interval between flashes helps you inform qualified Sony personnel of the TV's condition.










- 1 Measure how long the  indicator flashes and stops flashing.

For example, the indicator flashes for 2 seconds, stops flashing for 1 second, and flashes for 2 seconds.

- 2 Press | on the TV to turn it off, and disconnect the power cord, then inform qualified Sony personnel or the Direct Response Center/ Customer Relations Center of how the indicator flashes (duration and interval).

Trouble symptoms and remedies

Problem	Possible remedies
No picture. Cannot receive any channels.	<ul style="list-style-type: none"> • Make sure the power cord is connected securely. • Turn on the power of the TV. • Check antenna/cable connections.
Cannot receive upper channels (UHF) when using an antenna.	<ul style="list-style-type: none"> • Set "Cable" to "Off" in the  (Channel) menu (page 20). • Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20).
TV is locked to one channel.	<ul style="list-style-type: none"> • Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20). • Check your Channel Fix setting (page 21).
Cannot receive any channels when using cable TV.	<ul style="list-style-type: none"> • Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20). • Make sure "Cable" in the  (Channel) menu is set to "On" (page 20).
Cannot receive or select channels.	<ul style="list-style-type: none"> • Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20).
The TV turns off automatically. (The TV enters the standby mode.)	<ul style="list-style-type: none"> • This TV automatically changes to the standby mode after displaying the message "TV will turn off soon" if it receives no broadcast or input signal through the connected equipment for 10 minutes. • Check that the Sleep timer is activated (page 50).
Some video sources do not appear.	<ul style="list-style-type: none"> • Check the connection between the optional video equipment and the TV. • Press TV/VIDEO on the remote control (page 28). • If you connect the video equipment to the S VIDEO input of the TV, set "Auto YC" to "On" in the  (Setup) menu (page 12). • This TV supports only the 480i and 480p signal format. If you connect the video equipment to the TV through the VIDEO 3 IN jacks, check that the equipment is set to output 480i or 480p signals.

Problem	Possible remedies
Poor picture.	
Double images or ghosts.	<ul style="list-style-type: none"> • Check antenna/cable connections. • Check the antenna location and direction.
Only snow and noise appear on the screen.	<ul style="list-style-type: none"> • Check if the antenna is broken or bent. • Check if the antenna has reached the end of its serviceable life (3-5 years in normal use, 1-2 years at the seaside).
Dotted lines or stripes.	<ul style="list-style-type: none"> • Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers.
No color. Color is not correct. Dark picture.	<ul style="list-style-type: none"> • Press PICTURE MODE to select the desired Picture Mode (page 24). • Adjust the Picture Mode options in the  (Video) menu (page 37).
The picture is too bright.	<ul style="list-style-type: none"> • Press PICTURE MODE to select the desired Picture Mode (page 24).
Picture (stripe) noise.	<ul style="list-style-type: none"> • Make sure that the antenna is connected using the supplied 75-ohm coaxial cable. • Keep the antenna cable away from other connecting cords. • Do not use 300-ohm twin lead cables as interference may occur.
No sound./Noisy sound.	
Good picture, no sound.	<ul style="list-style-type: none"> • Check the volume control. • Press MUTING or VOL + so that “Muting” disappears from the screen (page 23). • Disconnect your headphones. • Set “Speaker” to “On” in the  (Audio) menu (page 15). If it is set to “Off,” sound is not output from the TV’s speakers regardless of the TV’s volume control.
Audio noise.	<ul style="list-style-type: none"> • Make sure that the antenna is connected using the supplied 75-ohm coaxial cable. • Keep the antenna cable away from other connecting cords. • Do not use 300-ohm twin lead cables as interference may occur. • Press MTS/SAP to select “Mono” (page 41).
Cannot operate the menu.	<ul style="list-style-type: none"> • If the item you want to select appears in a pale color, you cannot select it.
Screen Mode changes automatically with the “16:9 Enhanced” option set to “Auto.”	<ul style="list-style-type: none"> • The TV automatically detects the aspect ratio signal transmitted with the picture signal and displays the picture at its original aspect ratio (page 27).
The picture looks distorted, with people appearing unnaturally tall and thin, with the “16:9 Enhanced” option set to “On.”	<ul style="list-style-type: none"> • If you set the “16:9 Enhanced” option to “On,” the picture is forcibly compressed vertically regardless of its aspect ratio signal. Therefore, a picture in the 4:3 aspect ratio, such as a normal 4:3 broadcast, looks unnatural because of compression. This problem is more serious for a Letterbox movie because the entire picture, including its upper and lower black bands, is compressed. You can watch these pictures at their original aspect ratio by setting the “16:9 Enhanced” option to “Auto” (page 27).
Remote control does not operate.	<ul style="list-style-type: none"> • The batteries could be weak. Replace the batteries. • Check the polarity of the batteries. • If the  indicator on the TV does not light in red, press on the TV. • Point the remote control at the remote control sensor of the TV. • Install the TV away from fluorescent lights.
Cannot change channels with the remote control.	<ul style="list-style-type: none"> • Be sure you have not inadvertently switched your TV from channel 3 or 4 setting if you are using another device to change channels. • If you are using another device to control channels, be sure the FUNCTION button for that device has been pressed. For example, if you are using your cable box to control channels, be sure to press SAT/CABLE (page 30).
Lost password.	<ul style="list-style-type: none"> • Select the  (Parent) menu on the menu screen, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password (page 44).

Specifications

Television system:

American TV standard

Channel coverage:

VHF: 2-13/UHF: 14-69/CATV: 1-125

Antenna:

75 ohm external terminal for VHF/UHF

Screen size (measured diagonally):

21 inches

Panel System:

a-Si TFT Active Matrix LCD panel
(Effective dots: more than 99.99%)

Display resolution:

1,024 dots (horizontal) × 768 lines (vertical)

VIDEO 1/2 IN:

S VIDEO (4-pin mini DIN):

Y: 1 Vp-p, 75-ohms unbalanced,
sync negative

C: 0.286 Vp-p (Burst signal),
75 ohms

VIDEO: 1 Vp-p, 75-ohms unbalanced,
sync negative

AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

VIDEO 3 IN:

Y, P_B, P_R (Component Video):

Y: 1.0 Vp-p, 75 ohms
unbalanced, sync negative

P_B: 0.7 Vp-p, 75 ohms

P_R: 0.7 Vp-p, 75 ohms

Signal format: 480i, 480p

AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

AUDIO OUT:

500 mVrms (100% modulation)

More than 500 mVrms at the maximum volume setting
(Variable)

More than 500 mVrms (Fixed)

Headphones:

Stereo minijack

Impedance: 16 ohms

Speaker:

Full range: ø5.0 cm (1³¹/₃₂ inches) (2)

Woofer: ø5.5 cm (2⁵/₃₂ inches) (2)

Speaker output:

2.0 W + 2.0 W + 3.8 W

Power requirement:

120 V AC, 60 Hz

Power consumption:

In use (Max.): 118 W

In standby: Less than 1 W

Dimensions (W/H/D):

Including TV stand: 528 × 516 × 230 mm
(20²⁵/₃₂ × 20⁵/₁₆ × 9¹/₁₆ inches)

Without TV stand: 528 × 491 × 118 mm
(20²⁵/₃₂ × 19¹¹/₃₂ × 4²¹/₃₂ inches)

Mass:

Including TV stand: 10.6 kg (23 lb 6 oz)

Without TV stand: 9.4 kg (20 lb 12 oz)

Supplied accessories:

Remote control RM-Y1104 (1)

Batteries size AA (2)

75-ohm coaxial cable (1)

AC power cord (1)

Operating Instructions

Warranty Card

Product Registration

Optional accessories:

Note that some optional accessories may be out of stock.

Headphones plug adaptor

Connecting cables

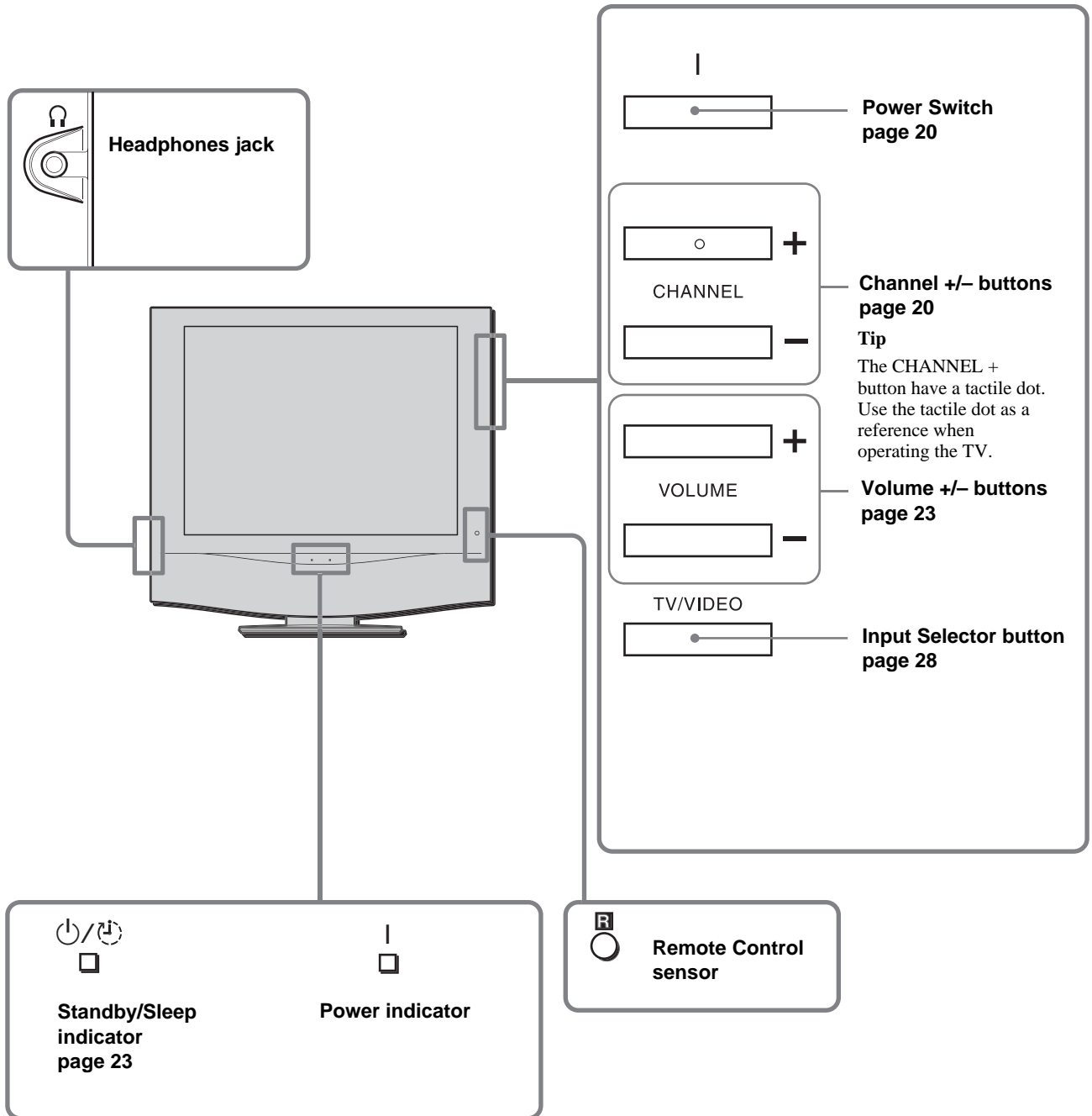
Wall-Mount Bracket

SU-W210

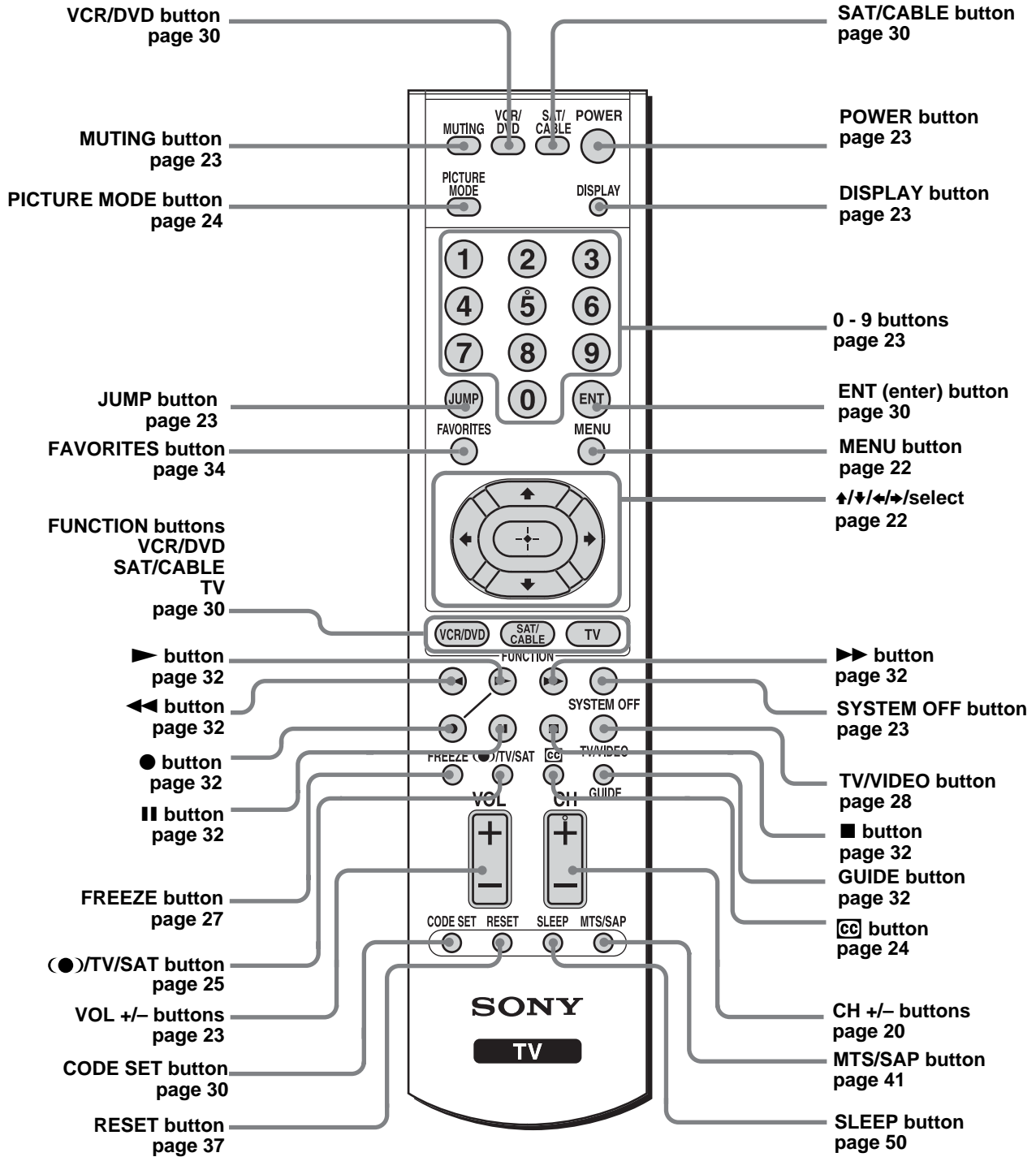
Design and specifications are subject to change without notice.

Index to parts and controls

TV Front Panel



Remote Control



Tip

The MTS/SAP button, the number 5 button and the CH + button have a tactile dot. Use the tactile dot as a reference when operating the TV.

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