

## ***LCD Color TV***

---

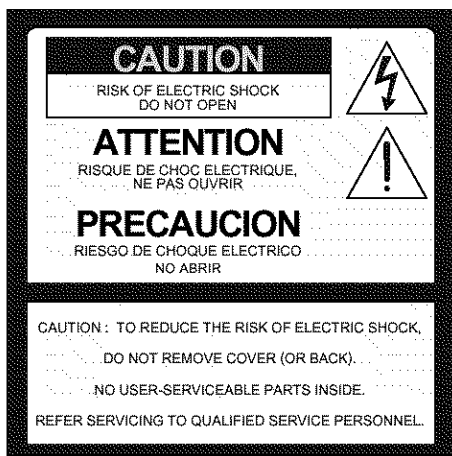
### **Operating Instructions**

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

# **KLV-15SR1**

# 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-HANGING RACK UNIT. Use with other WALL-HANGING RACK UNIT is capable of resulting in instability causing possible injury.

SONY APPLIANCE MODEL NO.  
KLV-15SR1

WALL-MOUNT UNIT MODEL NO.  
SU-W100  
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 reminder 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.



As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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

## 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. \_\_\_\_\_

# Important Safeguards

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

## WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

## Use

### Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

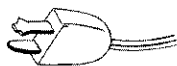


### Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

#### For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



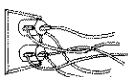
#### For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



## Overloading

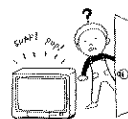
Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.

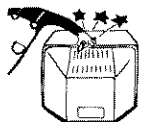


If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



## Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



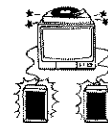
## Cleaning

- ☐ Be sure to unplug the TV unit before cleaning.
- ☐ Minimize contact with the LCD screen surface since the special coating applied may be affected. Use a dry soft cloth when removing dust from the screen.
- ☐ Do not use alcohol, benzene, thinner, etc., as it may damage the coating or cause LCD screen deterioration.
- ☐ Always use commercially available chemical fiber cleaning cloths in accordance with their supplied instructions.
- ☐ Do not allow the LCD screen to come in contact with volatile compounds, such as insecticide. Also, never let the LCD screen come in contact with rubber or plastic products for an extended period of time. This type of contact may damage the coating, or cause the LCD screen to deteriorate.



## Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



## Installation

### Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



### Corrosion

Use of this set near the seashore may subject the set to excessive salt, corrosion and internal damage and result in deterioration of the set's performance. If the set will be subjected to these conditions, steps should be taken to reduce the humidity and temperature of the area where the set is located.

### Accessories

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by Sony for the specific model of TV. No part of the TV set should overhang any edge of the TV cart or stand; any overhanging edge is a safety hazard. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



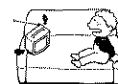
### Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- ☐ Never cover the slots and openings with a cloth or other materials.



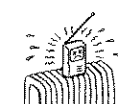
- ☐ Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.



- ☐ Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

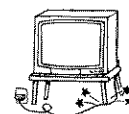


- ☐ Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



### Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



## Antennas

### Outdoor Antenna Grounding

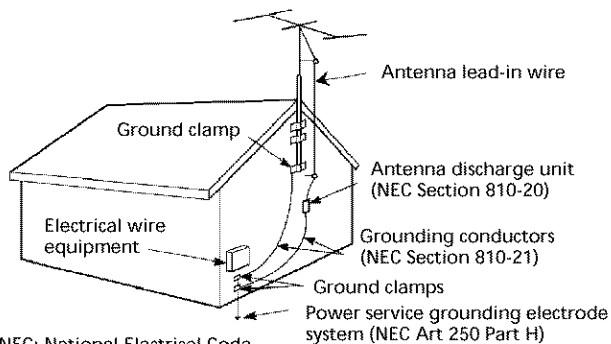
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



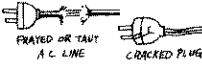
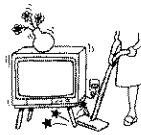




### Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

### Service

#### Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ☐ When the power cord or plug is damaged or frayed. 
- ☐ If liquid has been spilled into the set. 
- ☐ If the set has been exposed to rain or water. 
- ☐ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged. 
- ☐ If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation. 
- ☐ When the set exhibits a distinct change in performance, it indicates a need for service. 

### Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



### Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

### Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify.



When the set reaches the end of its useful life, improper disposal could result in an LCD panel implosion. Ask a qualified service technician to dispose of the set.



### Carrying the TV

When carrying the TV, hold it as shown in the diagram on the right. Do not hold only the rear cover. As the rear cover comes off easily, doing so may cause you to drop the TV, resulting in damage to the TV or injury.



### Optional Accessories

Be sure to follow the operating instructions supplied with your wall mount unit when installing the TV using a wall mount unit. If not, the TV may fall and cause serious injury.

### Oils

Do not install this TV in restaurants where oil vapors occur. Dust absorbing oil may enter into the TV and damage it.

### Ventilation holes

Do not insert anything in the ventilation holes. If metal or something flammable enters, it may result in fire or electric shock.



### AC power cord

Unplug the AC power cord when moving the TV. Do not move the TV with the AC power cord plugged in. It may damage the AC power cord and result in fire or electric shock.

### Protruding location


Do not install the TV in protruding locations. If you install the TV in the following locations, injury may result.

- ☐ Do not install the TV in a location where the TV protrudes, such as pillars.
- ☐ Do not install the TV in a location that may cause facial injury.

### Broken pieces

Do not throw anything at the TV. The screen glass may explode by the impact and cause serious injury.

## Important Safety Instruction

- 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.

# Table of Contents

## Installing and Connecting the TV

Unpacking .....	7
Inserting Batteries into the Remote Control...	7
Connector Types .....	7
Identifying Front and Rear Connectors .....	8
Basic Connections (Connecting Cable TV or an Antenna) .....	9
Removing the rear cover .....	9
Attaching the rear cover .....	9
Connecting directly to cable or an antenna .....	9
Cable box connections .....	9
Connecting the Power Cord .....	10
Bundling cords and cables .....	11
Adjusting the viewing angle of the TV ...	11
Carrying the TV .....	11
Connecting a VCR and Cable TV .....	12
Connecting a Satellite Receiver .....	13
Connecting a Satellite Receiver with a VCR ...	14
Connecting an Audio Receiver .....	15
Connecting a DVD Player with Component Video Connectors .....	16
Connecting a DVD Player with A/V Connectors .....	17
Connecting a Digital Satellite Receiver .....	18
Connecting a Digital TV Receiver .....	19
Setting the Channels .....	20
Selecting the On-screen Menu Language .....	22

## Watching the TV

Watching the TV .....	23
Watching with closed caption .....	24
Selecting the Picture Mode .....	24
Saving the Power Consumption .....	25
Using the 16:9 Enhanced Feature .....	26

Setting the Video Inputs .....	27
Operating Video Equipment with Your TV	
Remote Control .....	28
Programming the remote control .....	28
Operating optional equipment .....	30
Using Favorite Channels .....	31
Setting your favorite channels .....	31
Watching favorite channels .....	32

## Using Advanced Features

Using the Menu .....	33
Adjusting the Picture Quality .....	34
Adjusting the Sound Quality .....	35
Selecting Stereo or Bilingual Programs .....	37
Selecting stereo or bilingual programs using the menu .....	37
Using the Parental Control Feature .....	38
Activating the Parental Control feature ...	38
Selecting a Custom Rating .....	40
What the Ratings Mean .....	42
Ratings in the U.S.A. ....	42
Ratings in Canada .....	44
Turning Off the TV Automatically .....	46

## Additional Information

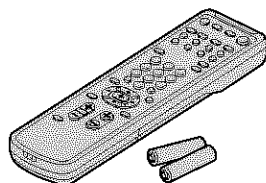
Troubleshooting .....	47
Self-diagnosis function .....	47
Trouble symptoms and remedies .....	47
Specifications .....	49
Index .....	50

# TV

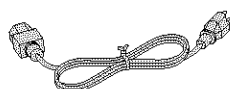
## Unpacking

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

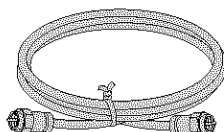
Remote control (1) and  
size AA batteries (2)



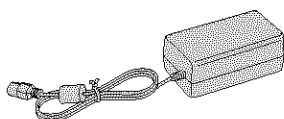
AC power cord (1)



75-ohm coaxial cable (1)



AC power adaptor (1)



Operating Instructions  
Warranty Card

## Supplied 75-ohm coaxial cable

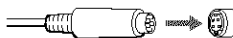
Screw-on type



Screw into connection.

## S VIDEO cable

High quality video cable for enhanced picture quality



Align guides and push into connection.

## AUDIO/VIDEO cable



Push into connection.

VIDEO - Yellow

AUDIO (Left) - White

AUDIO (Right) - Red

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

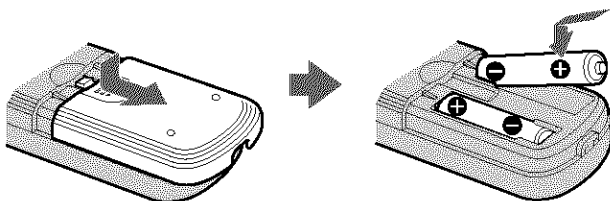
Y - Green

P<sub>B</sub> (C<sub>B</sub>, C<sub>b</sub> or B-Y) - Blue

P<sub>R</sub> (C<sub>R</sub>, C<sub>r</sub> 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.

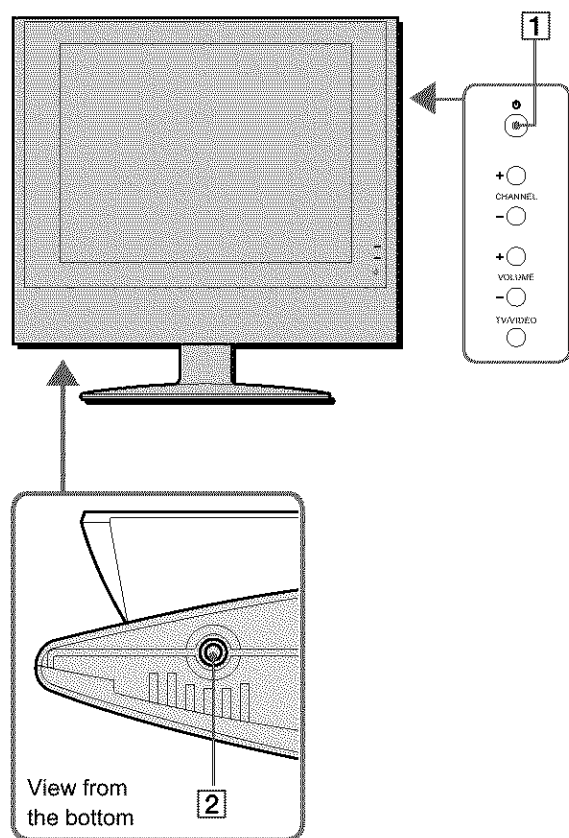


### Notes

- 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 28).

# 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).

#### Note

The headphones jack is disabled when you set the TV's speaker to off.

### 3 VHF/UHF (pages 9, 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

#### 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.

#### Y, Pb, Pr input jacks (pages 16, 18, 19)

Connects to the component video connectors (Y/Cb/Cr, Y/B-Y/R-Y, or Y/Pb/Pr) of your DVD player or other video equipment such as a Digital Satellite Receiver and Digital TV Receiver.

### 6 AUDIO OUT (page 15)

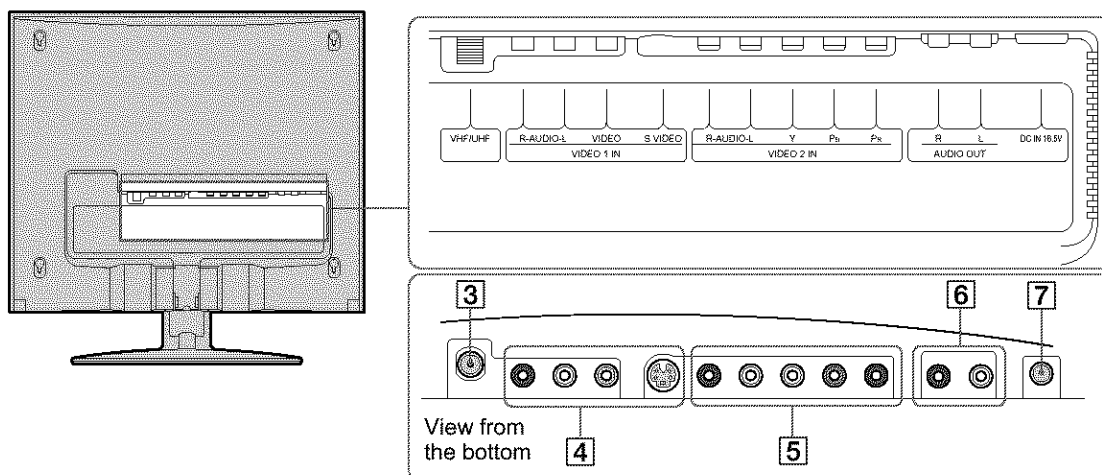
Connects to the input jacks of your audio equipment.

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

### 7 DC IN (page 10)

Connects the supplied AC power adaptor.

## Rear of TV



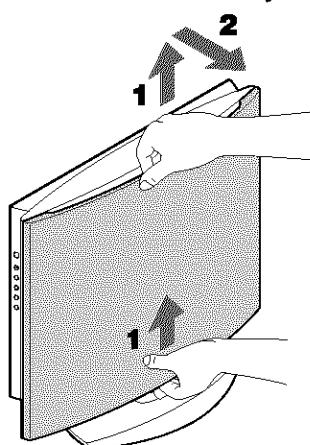


# Basic Connections (Connecting Cable TV or an Antenna)

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

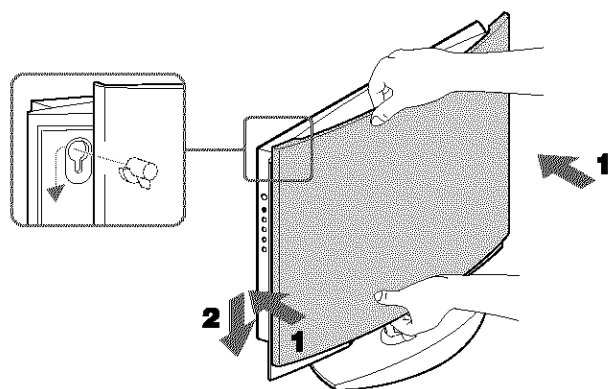
## Removing the rear cover

- 1** Slide the rear cover upward by approx. 1 cm ( $\frac{13}{32}$  inch) while holding it with both hands as shown in the diagram below.
- 2** Pull the rear cover towards you.



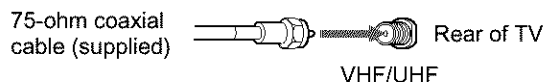
## Attaching the rear cover

- 1** Hold the rear cover with both hands, then fit the four detents on the rear cover into the corresponding keyholes on the TV while keeping the rear cover approx. 1 cm ( $\frac{13}{32}$  inch) higher than the TV as shown in the diagram below.
- 2** Slide the rear cover downward while keeping it pressed against the TV.



## Connecting directly to cable or an antenna

### VHF only or VHF/UHF or cable



#### Note

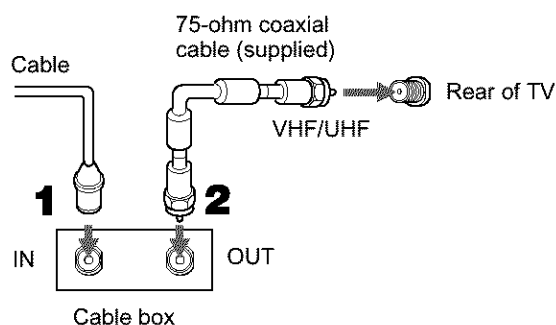
It is strongly recommended to connect the antenna using a 75-ohm coaxial cable to get optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it away as far as possible from the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

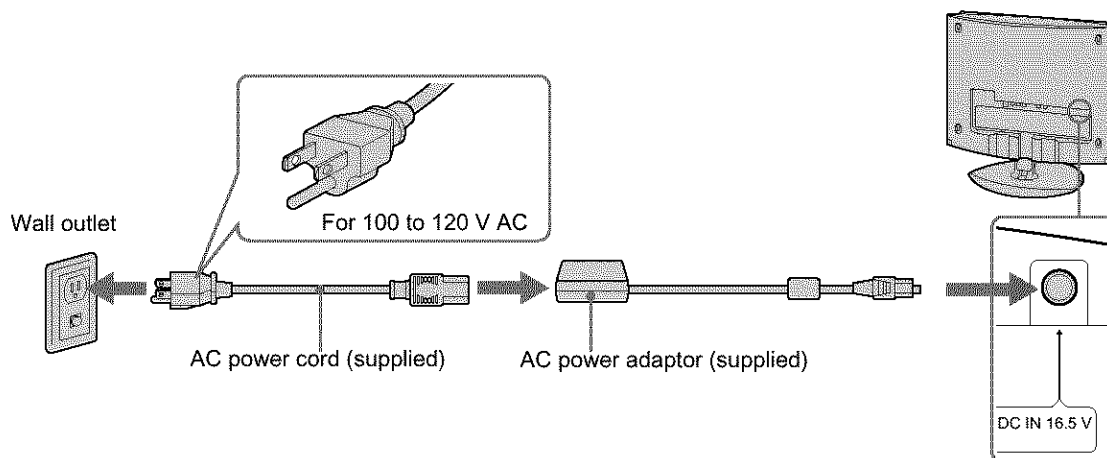
#### Tips

- Your Sony remote control can be programmed to operate your cable box (See "Programming the remote control" on page 28).
- 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

**Connect the power cord after you have finished all other connections.**

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

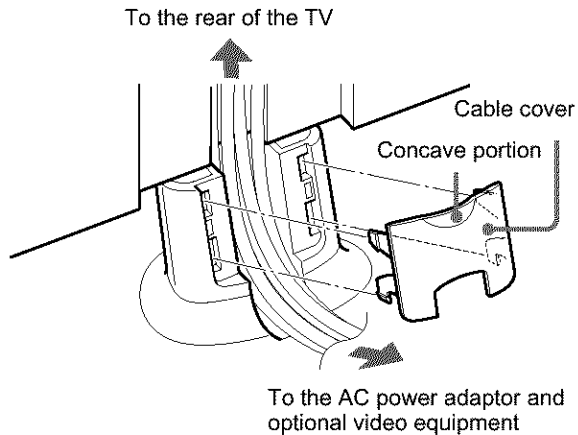


**Note**

The supplied AC power adaptor is designed for use only with this TV.  
Do not use this adaptor with other equipment.

## Bundling cords and cables

This TV allows you to bundle the cords and cables inside of the stand.



To remove the cable cover, put your fingers in the concave portion on the top of the cover, then pull the cover downwards.

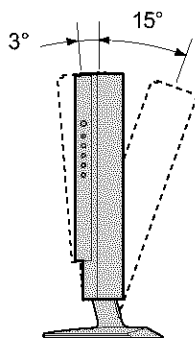
To attach the cable cover, fit the four detents on the cover into the corresponding holes on the stand, then push the cover.

### Tip

If you cannot bundle all of the cords and cables inside the stand, leave them hanging down outside the stand.

## Adjusting the viewing angle of the TV

This TV can be adjusted within the angles shown in the diagram below.

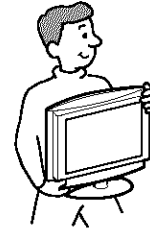


### Note

Be sure to hold the stand of the TV to prevent an upset of the TV when you adjust the viewing angle of the TV.

## Carrying the TV

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



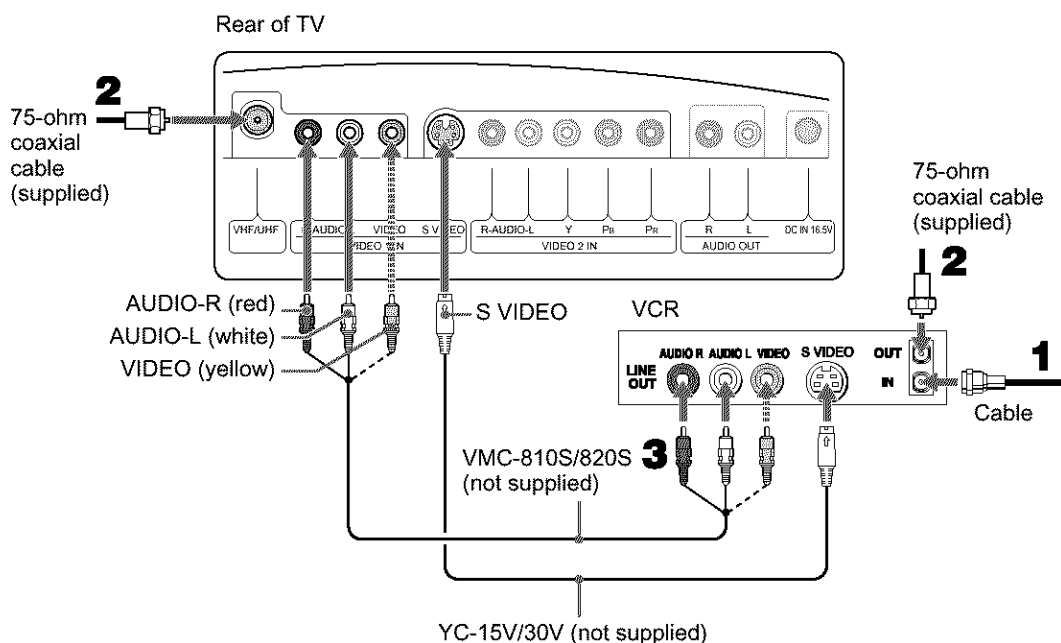
# Connecting a VCR and Cable TV

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).

## Tip

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

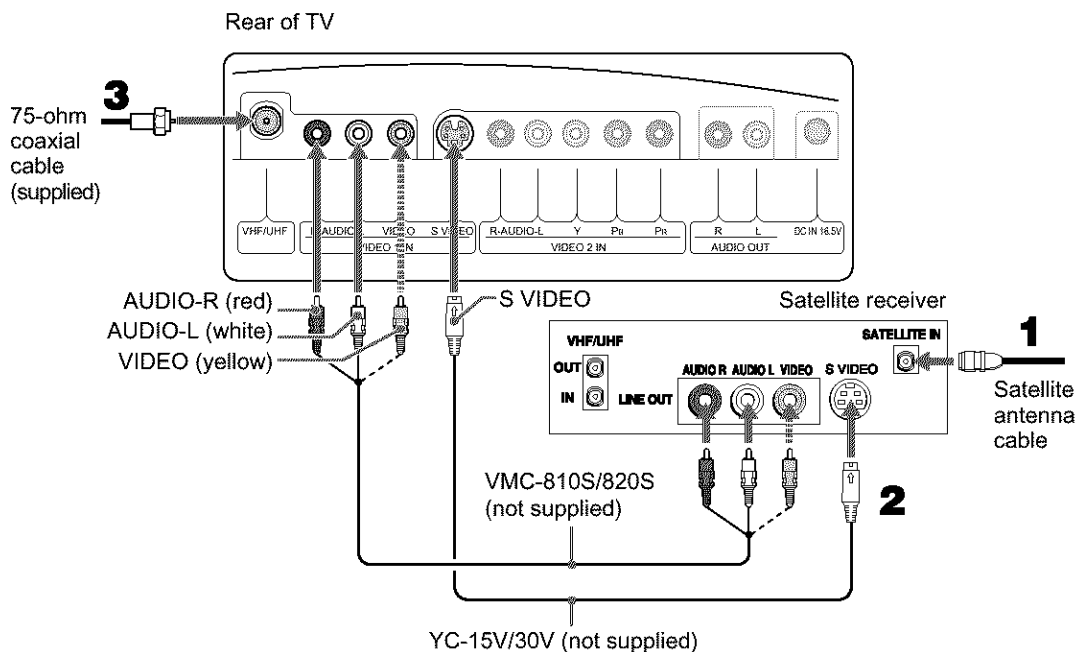
You can select which jack the TV receives the input signal from on the menu screen. The TV is factory set to receive S VIDEO input signals.

- 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).

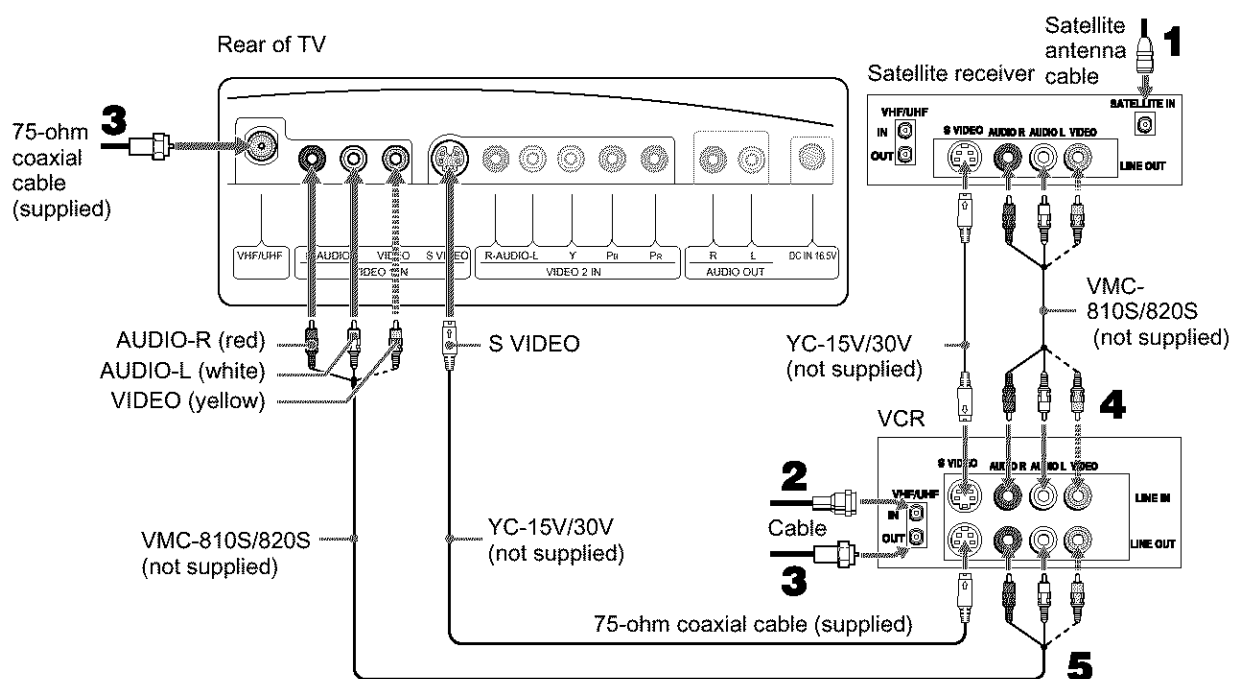
## Tip

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

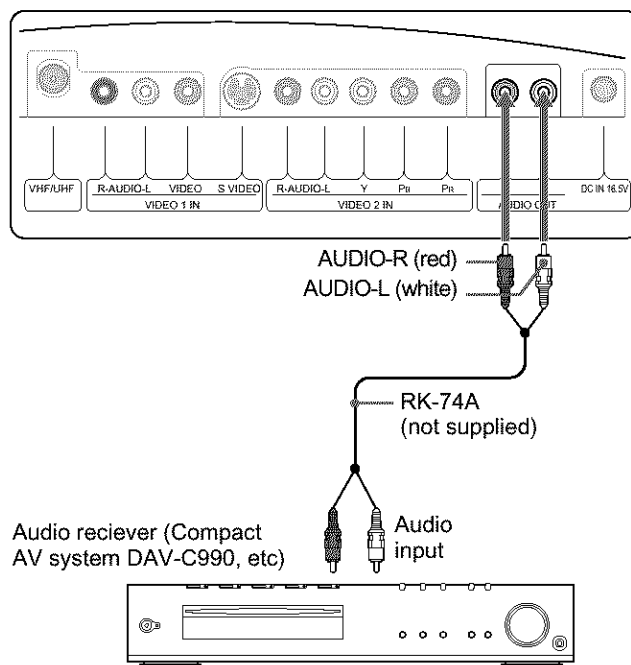
- Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
- Use TV/VIDEO on the remote control to select VIDEO 1 IN to watch satellite TV or to watch a tape on the VCR (your VCR must be turned on).
- If your VCR or satellite receiver is not equipped with 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.

Rear of TV



## 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."

### Note

The video signal is not output through the AUDIO OUT jacks.

# 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 three separate component video cables, connect the DVD player's Y, B-Y and R-Y jacks to the Y, P<sub>B</sub> and P<sub>R</sub> jacks on the TV. Use the VIDEO 2 IN connections.

## Note

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

## Tip

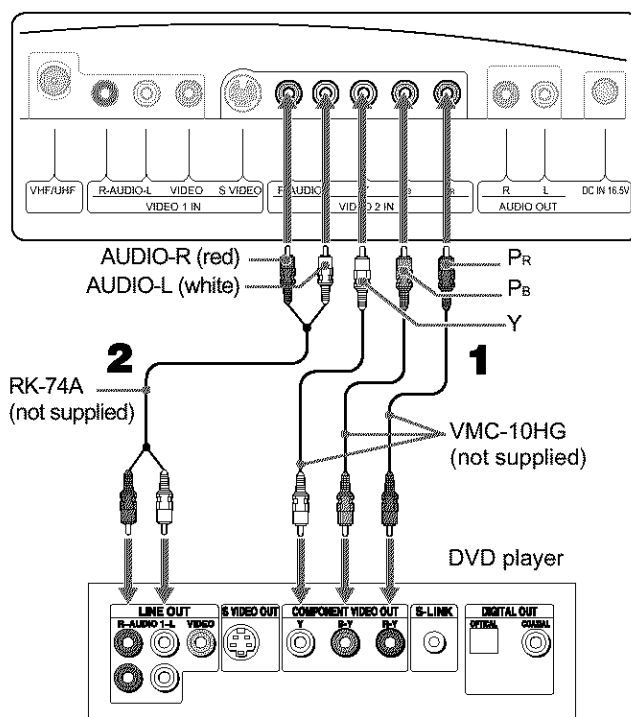
The Y, B-Y and R-Y jacks on your DVD player are sometimes labeled as Y, C<sub>B</sub> and C<sub>R</sub>, or Y, P<sub>B</sub> and P<sub>R</sub>. If so, connect the cables to the matching colors.

- 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.

Rear of TV



## 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<sub>B</sub> (C<sub>B</sub>, C<sub>b</sub> or B-Y) -Blue and P<sub>R</sub> (C<sub>R</sub>, C<sub>r</sub> or R-Y) -Red.



# Connecting a DVD Player with A/V Connectors

Use this hookup if:

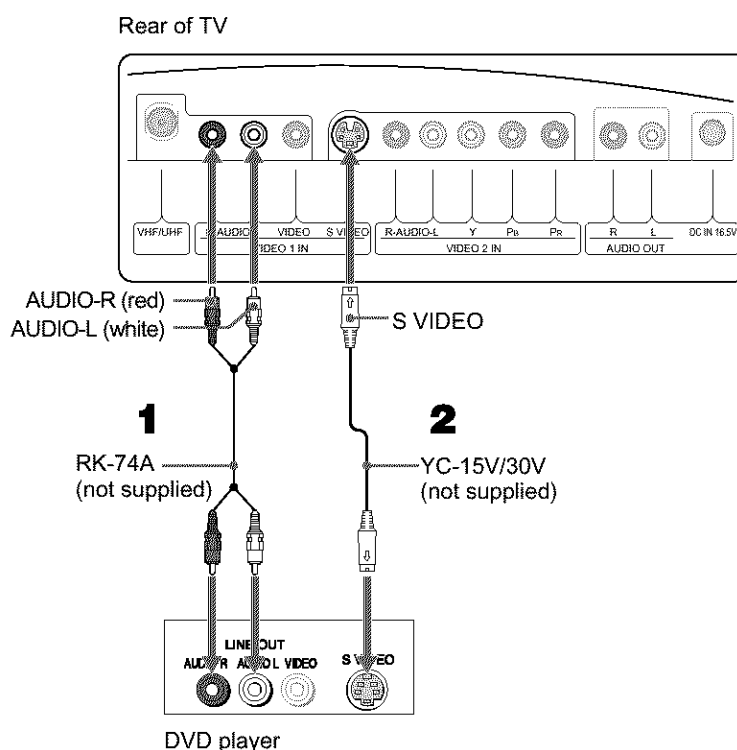
- Your DVD player does not have component (Y, P<sub>B</sub>, P<sub>R</sub>) jacks.

## 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

- 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.**

- 1 Using three separate component video cables, connect the Digital Satellite Receiver's Y, P<sub>B</sub> and P<sub>R</sub> jacks to the Y, P<sub>B</sub> and P<sub>R</sub> jacks on the TV. Use the VIDEO 2 IN connections.

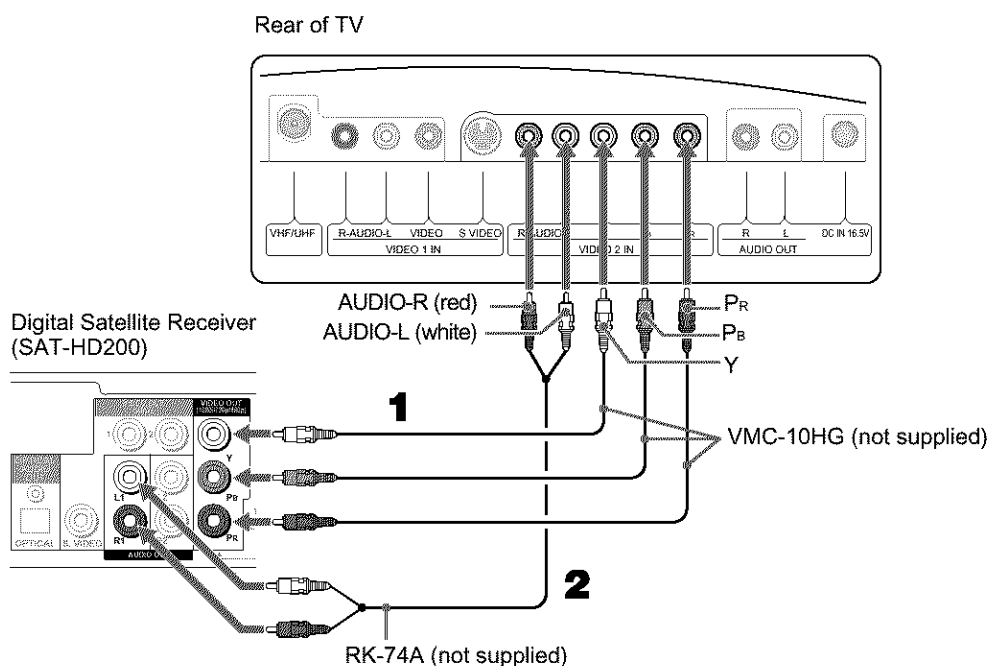
**Note**

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

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

**Note**

The Y, P<sub>B</sub> and P<sub>R</sub> 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 three separate component video cables, connect the Digital TV Set-top box's Y, P<sub>B</sub> and P<sub>R</sub> jacks to the Y, P<sub>B</sub> and P<sub>R</sub> jacks on the TV. Use the VIDEO 2 IN connections.

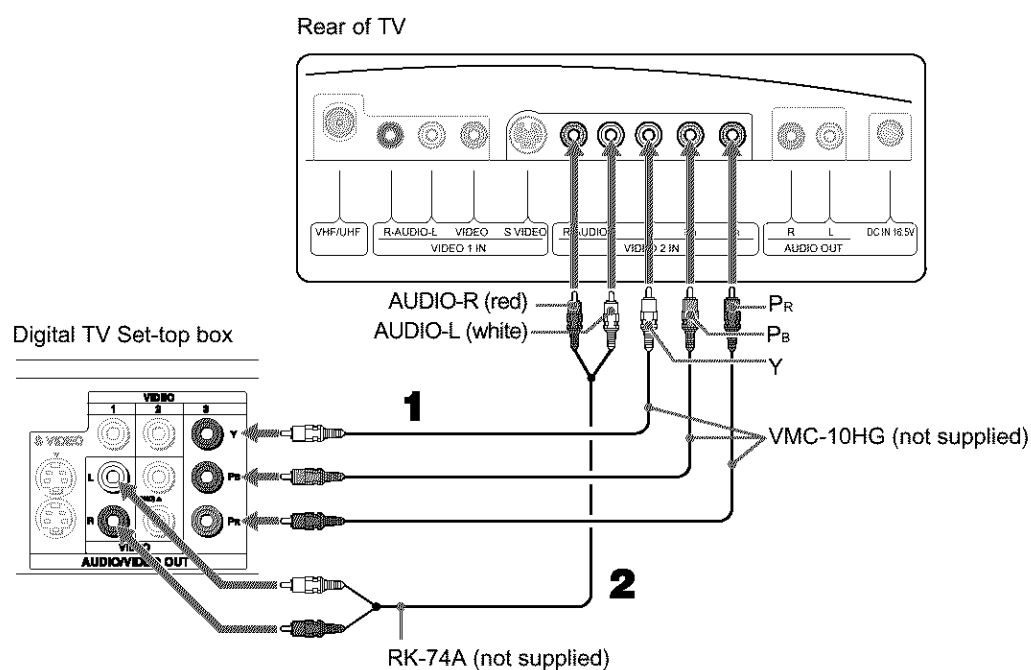
**Note**

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

- 2 Using an AUDIO cable, connect the Digital TV Set-top box's AUDIO OUT jacks to the TV's AUDIO IN jacks.

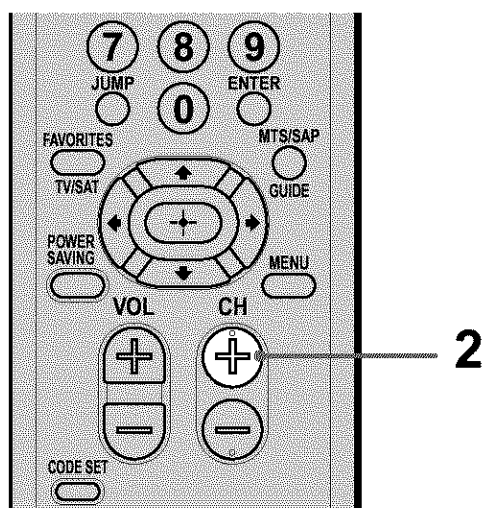
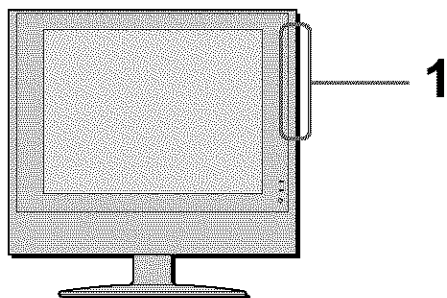
**Note**

The Y, P<sub>B</sub> and P<sub>R</sub> jacks do not provide audio, so audio cables must be connected to provide sound.

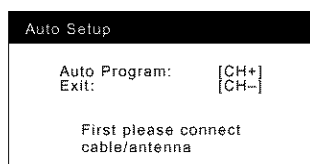
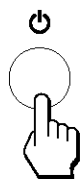


# Setting the Channels

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 POWER on the TV. The Auto Setup menu appears.



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

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).

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  $\oplus$ .

“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).

- 4** 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.

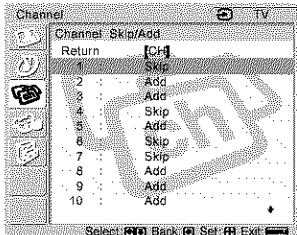
## When you have a cable box or satellite receiver connected

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

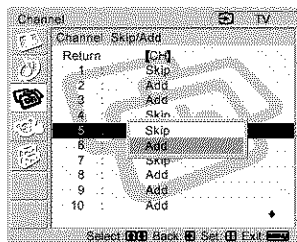
## To skip channels

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

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



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

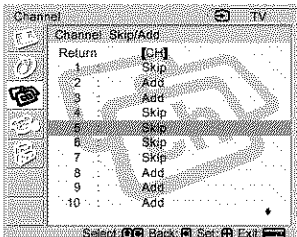


Example: Select this to skip channel 5.

### Tip

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

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




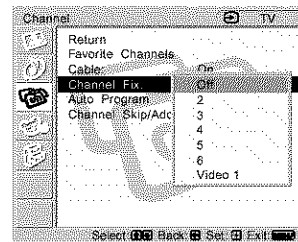
If you want to re-enter the skipped channel, select "Add."

- 6 Press MENU to exit the menu screen.

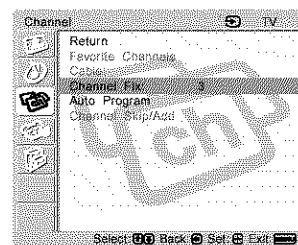
## To lock in a TV channel

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 ensures that you do not accidentally switch channels when using your TV.

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



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



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.

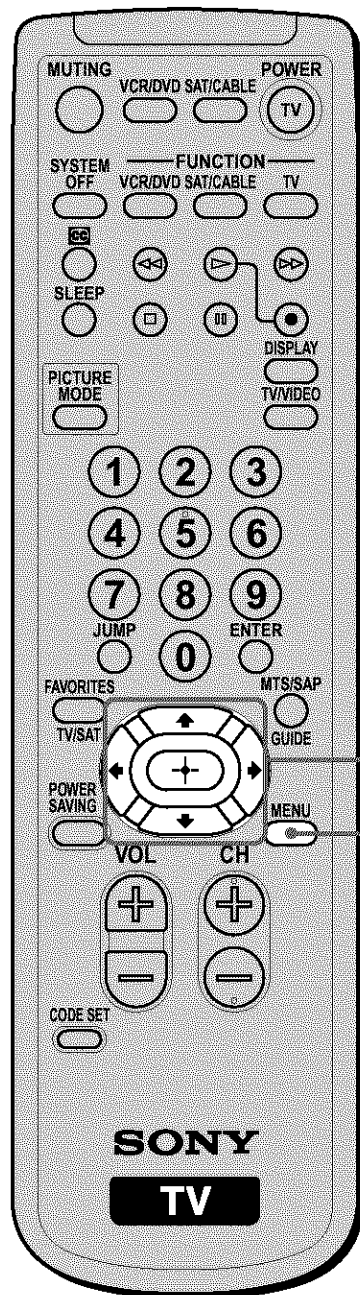
- 5 Press MENU to exit the menu screen.

### Notes

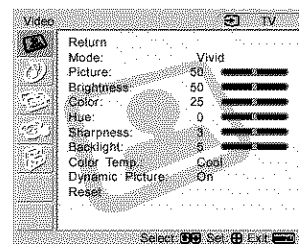
- When you lock in a TV channel, the Favorite Channel feature cannot be used.
- When you lock in a TV channel, you cannot select "Channel Skip/Add" in the menu. To use it, set "Channel Fix" to "Off."

# Selecting the On-screen Menu Language

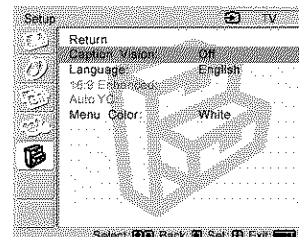
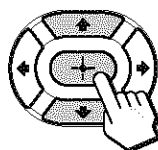
You can select the language to be displayed in all menus.



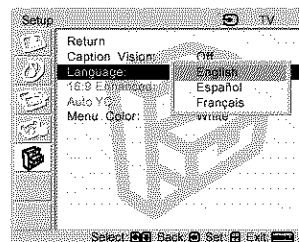
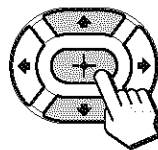
1 Press MENU.



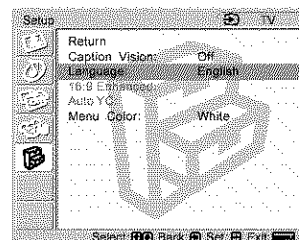
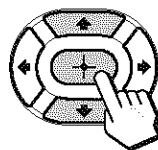
2 Press  $\uparrow/\downarrow$  to select  (Setup), then press  $\oplus$ .



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

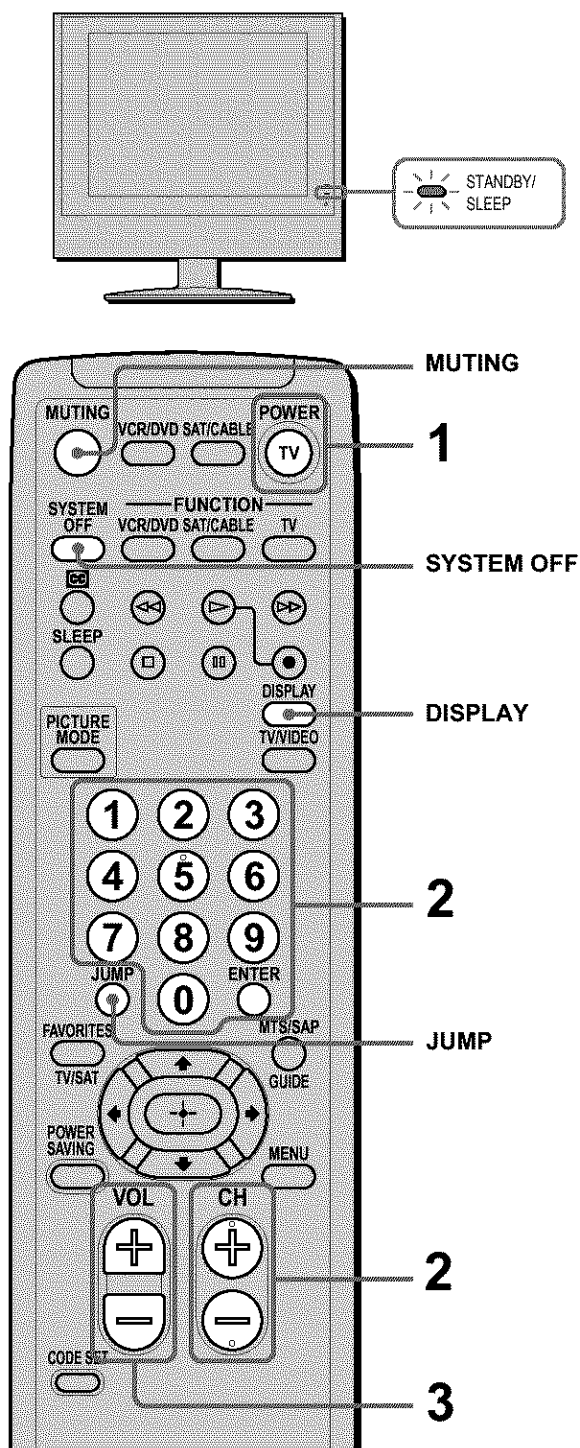


4 Press  $\uparrow/\downarrow$  to select your preferred language, then press  $\oplus$ .



5 Press MENU to exit the menu screen.

# Watching the TV



## POWER



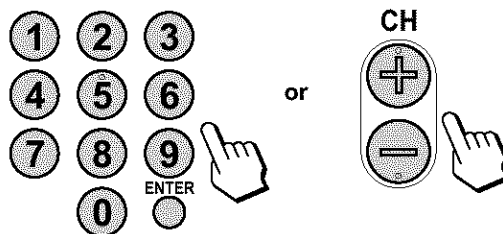
### Tip

When the STANDBY/SLEEP indicator goes off, press POWER on the TV.

- 2 Select the desired channel using the 0-9 and ENTER buttons.

Press 0-9 to select a channel. The channel changes after 2 seconds. Press 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.

## VOL



## 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.

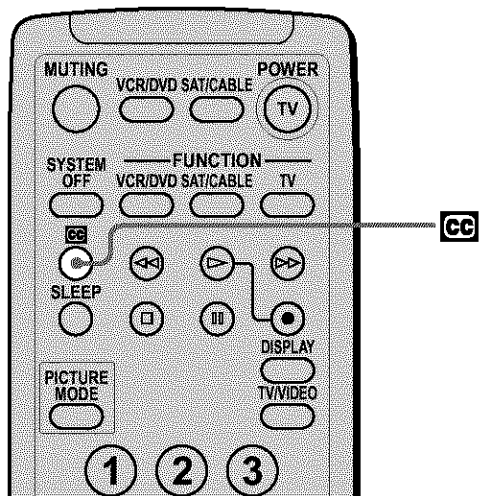
### Tip

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

(Continued)

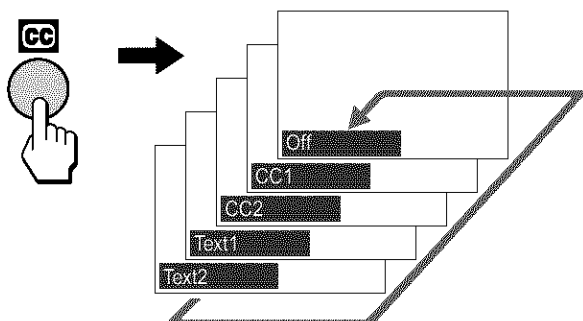
## Watching with closed caption

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 (Capture 1), CC2 (Capture 2)	Display a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 (Capture 1) for most programs.)
Text1, Text2	Display network/station information presented using either half or the whole screen.

### Tip

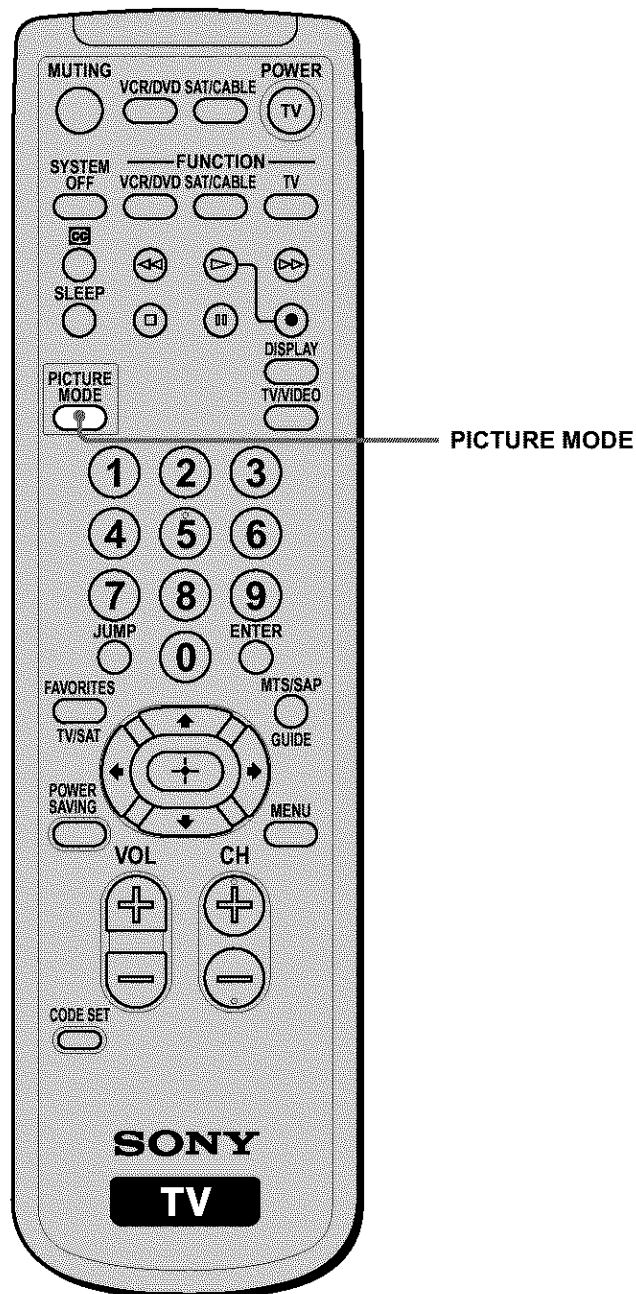
You can select Caption Vision on the menu screen. Select "Caption Vision" in the  (Setup) menu, then select the desired Caption Vision.

## 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 34, 35).

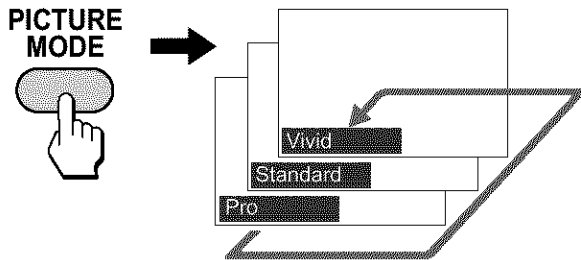
You can set a different Picture Mode for each video input that can be selected using the TV/VIDEO button, and store it in memory.





Press PICTURE MODE repeatedly until the desired mode appears.

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



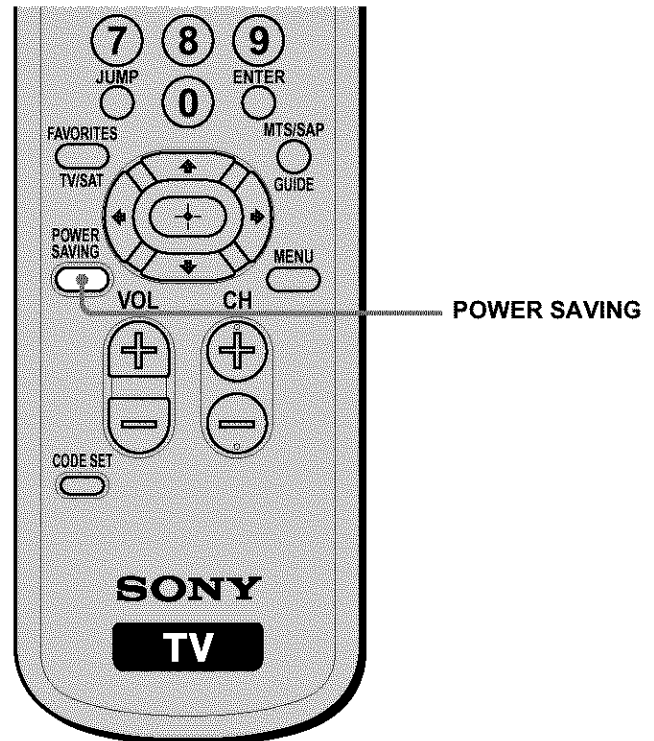
Picture Mode	Description
Vivid	Select for enhanced picture contrast and sharpness.
Standard	Select to display a picture with contrast to suit your room's lighting conditions. This mode is recommended for normal viewing conditions.
Pro	Select for professional monitor-like appearance.

#### Tip

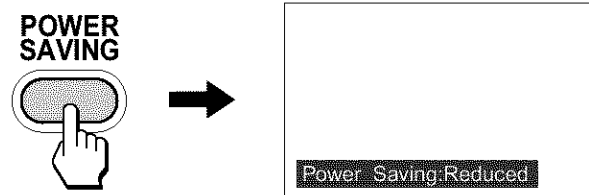
You can adjust the picture quality options, such as "Picture," "Brightness," and "Color," for each Picture Mode (See pages 34, 35).

## Saving the Power Consumption

You can save the power consumption of the TV.



Press POWER SAVING.



### To cancel the Power Saving mode

Press POWER SAVING again.  
"Power Saving:Standard" appears.

#### Tips

- If you turn off the TV while the Power Saving mode is on, the mode stays on next time you turn on the TV.
- You can adjust picture quality options, such as "Picture" and "Brightness," even if the Power Saving mode is active (See page 34). Note that if you increase "Picture" or "Brightness," power consumption is not reduced.

## 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.

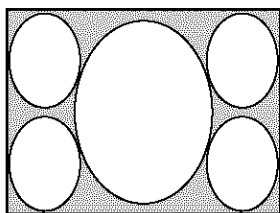
### Note

The 16:9 Enhanced feature is available only when the TV is set to Video 1 or Video 2, which you can do by pressing the TV/VIDEO button (See page 27).

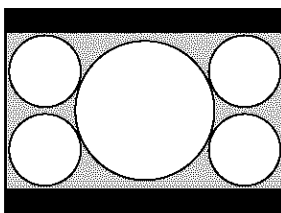
### Tip

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

Original Picture



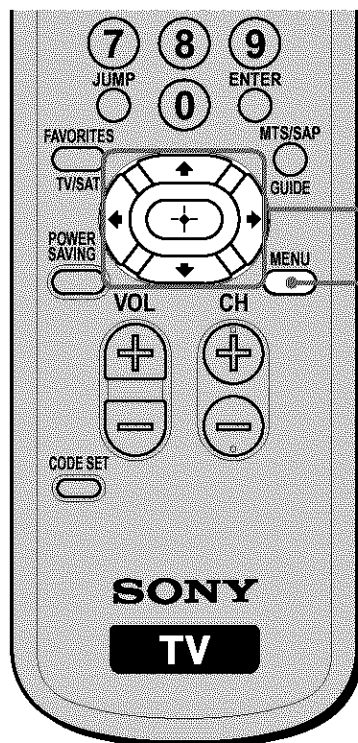
16:9 Enhanced Picture



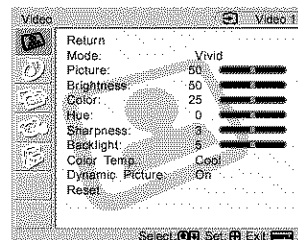
- Wide screen video camera or DVD picture
- DTV 16:9 aspect ratio picture

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

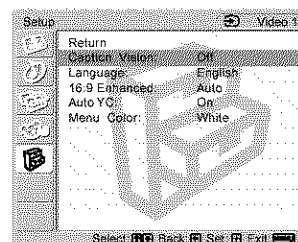
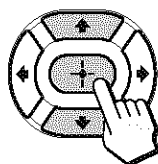
However, black bands appear at the top and bottom of the picture.



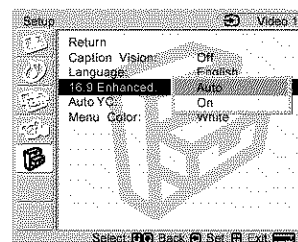
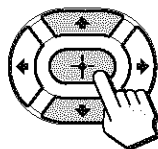
1 Press MENU.



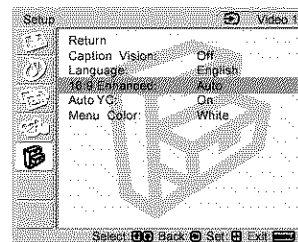
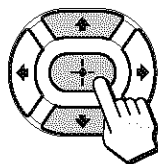
2 Press  $\uparrow/\downarrow$  to select , then press  $\oplus$ .



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



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



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.

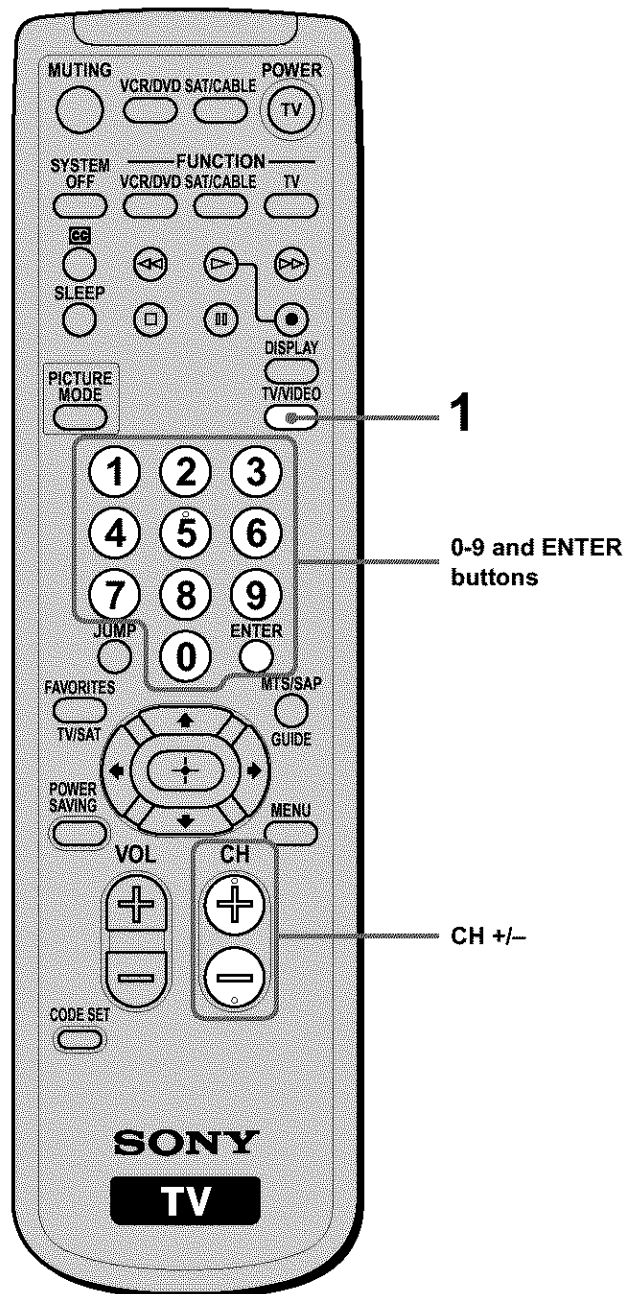
### Tips

- 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.

# 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 9 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

\* If a piece of video equipment is connected to the S VIDEO input and "Auto YC" in the  (Setup) menu is set to "On" (page 12), "S Video" appears.

## Tip

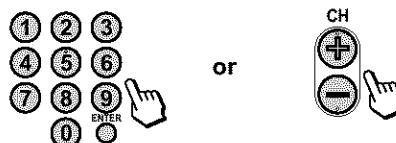
You can also select the inputs by using the TV/VIDEO button on the TV.

- 2 Operate the selected optional equipment.

For details, see "Operating Video Equipment with Your TV Remote Control" on page 28, or refer to the instructions supplied with each equipment.

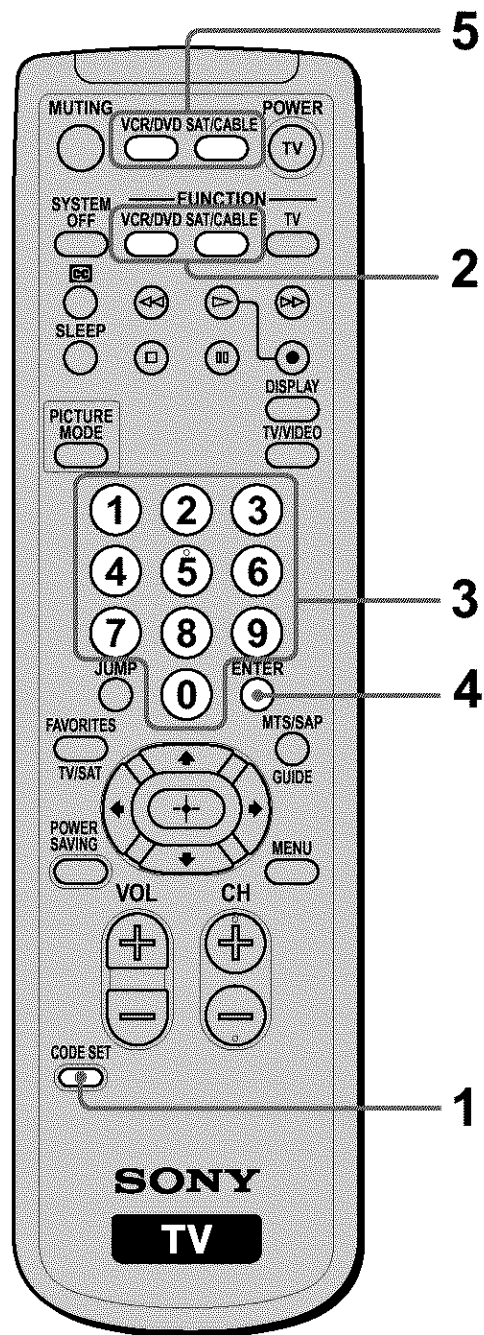
## To watch the TV

Press the 0-9 and ENTER buttons or CH +/-.



# 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 29, 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 **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**

<b>Manufacturer</b>	<b>Code</b>
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

<b>Manufacturer</b>	<b>Code</b>
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**

<b>Manufacturer</b>	<b>Code</b>
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

**Cable Boxes**

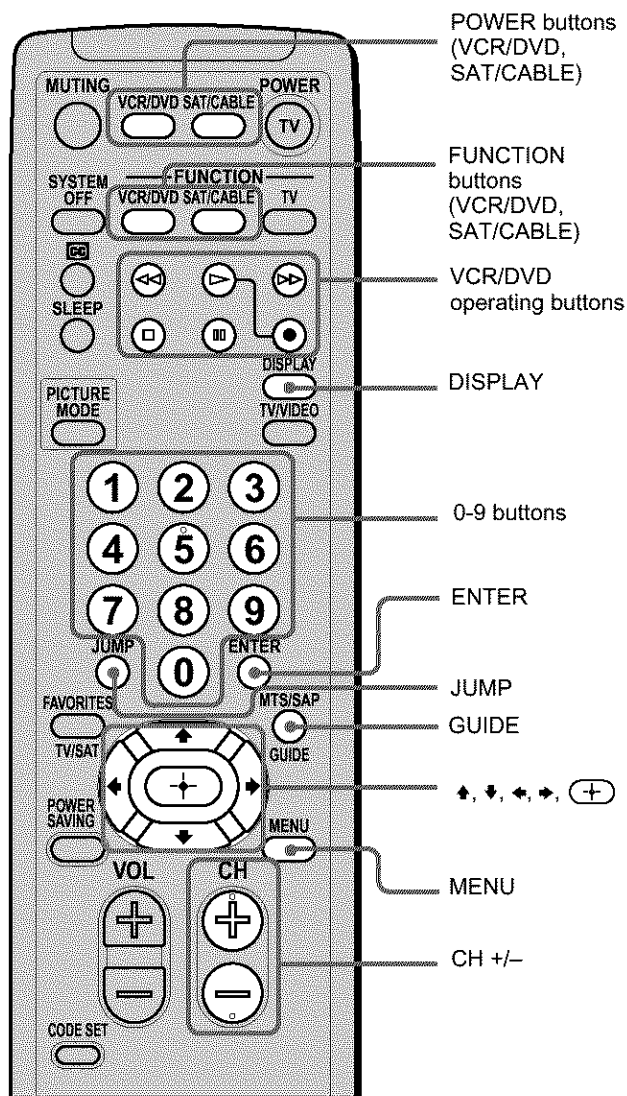
<b>Manufacturer</b>	<b>Code</b>
Sony	230
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

**Satellite Receivers**

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

(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, ENTER
Change channels	CH +/-
Go to the previous channel	JUMP

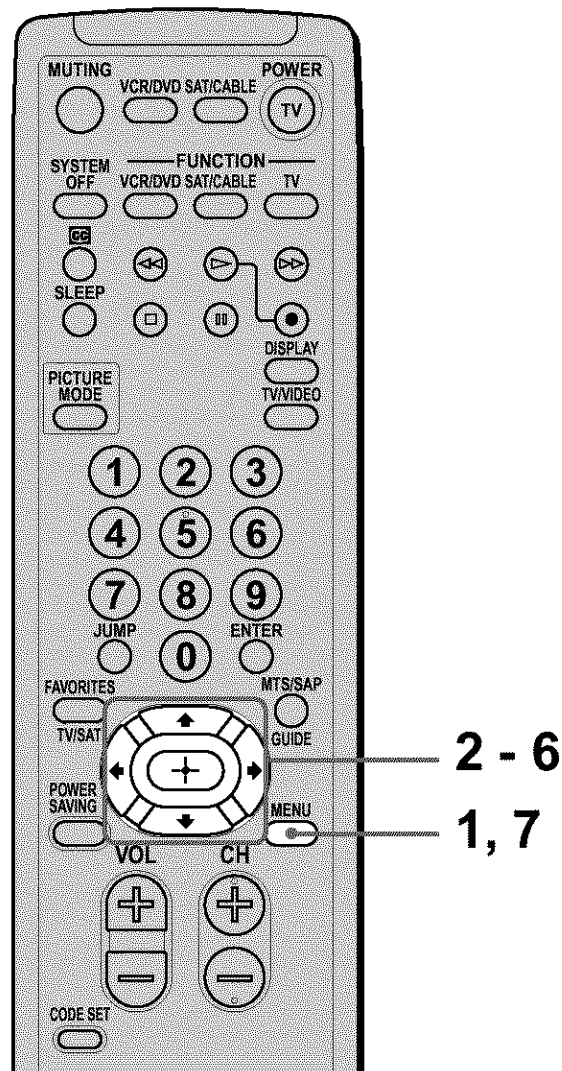
### Operating a satellite receiver

To	Press
Turn on/off	SAT/CABLE (POWER)
Control a satellite receiver	SAT/CABLE (FUNCTION)
Select a channel	0-9 buttons, 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	(+)

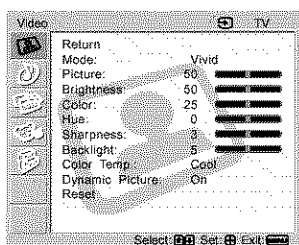
# Using Favorite Channels



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

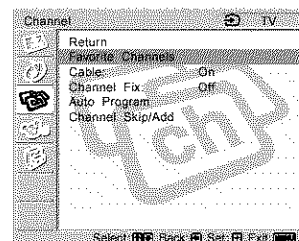
## Setting your favorite channels




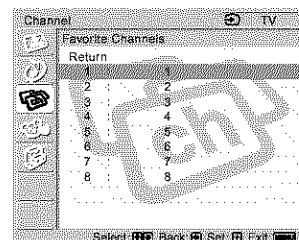
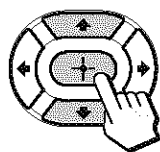
- 1** Press MENU.



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




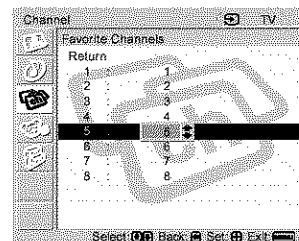
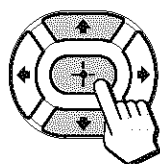
- 3** Press  $\uparrow/\downarrow$  to select "Favorite Channels," then press .




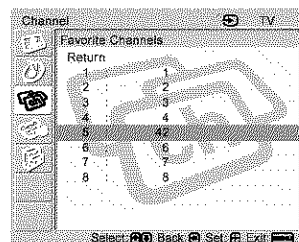
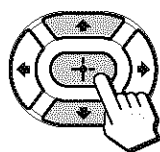
### Tip

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 .

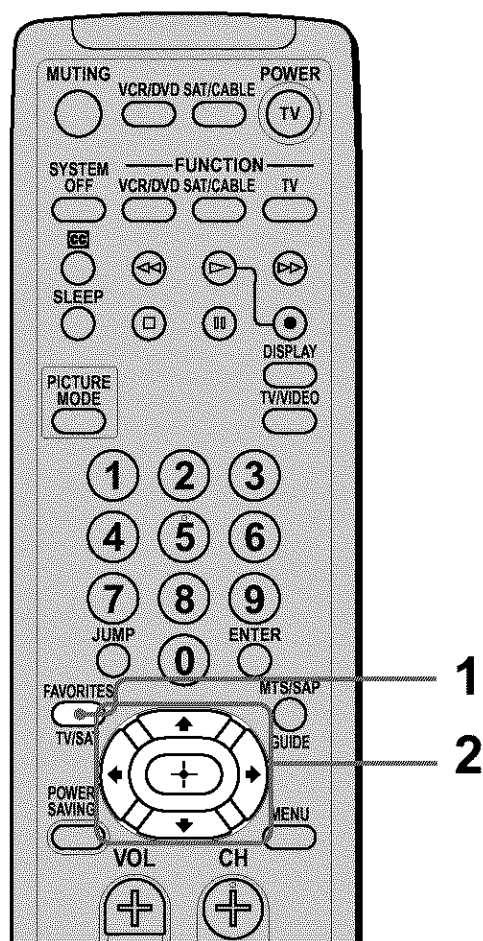


- 6** Repeat steps 4 and 5 to program other favorite channels.

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

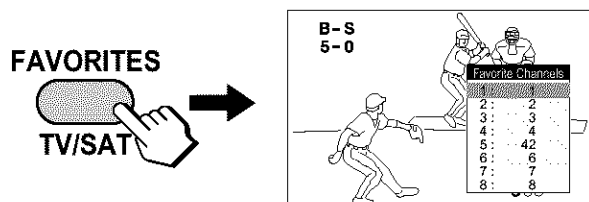
(Continued)

## Watching favorite channels



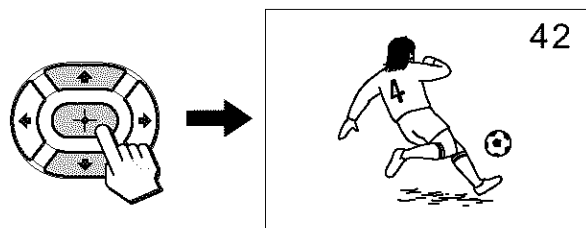
### 1 Press FAVORITES.

The Favorite Channels options appear.



### 2 Press $\uparrow/\downarrow$ to select the desired channel, then press $\left(\oplus\right)$ .

The selected channel will be displayed.



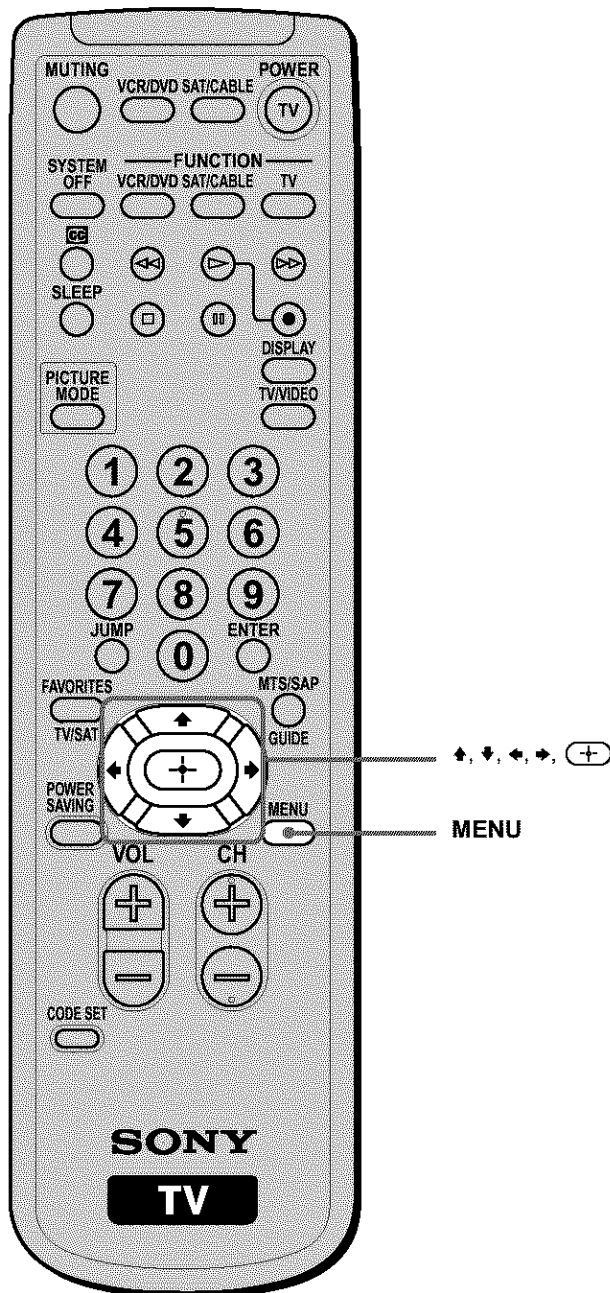


# Using Advanced Features

## 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

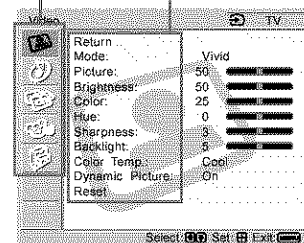


Press MENU to open the menu screen.

Press  $\uparrow/\downarrow$  to select the desired category, then press  $\leftarrow$ .

To exit the menu screen, press MENU again.

Menu category Menu option

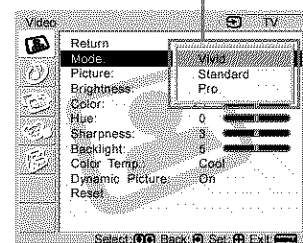


Setting option



Press  $\uparrow/\downarrow$  to select the option, then press  $\rightarrow$  or  $\leftarrow$ .

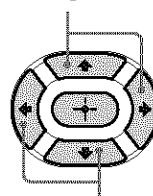
(The  $\rightarrow$  button cannot be used on some menus.)



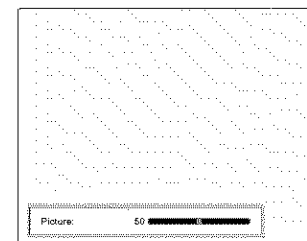
(Example: when selecting "Mode" in the (Video) menu)

### To adjust the setting

Maximize the setting value



Minimize the setting value



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

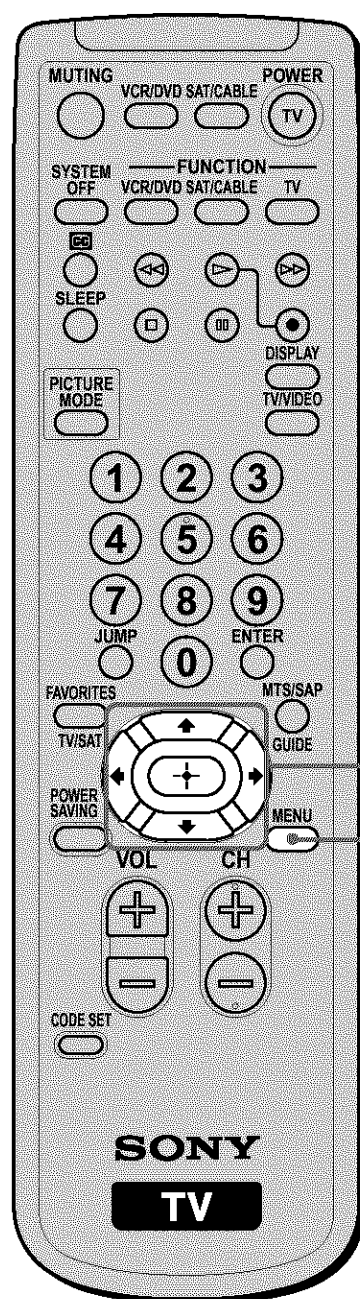
### Changing the menu color

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

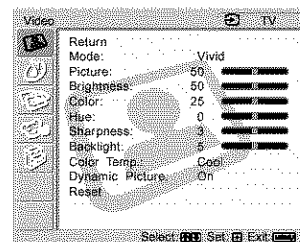
# Adjusting the Picture Quality

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

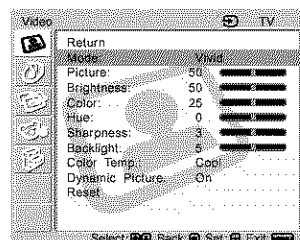
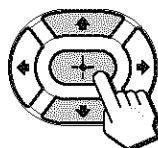
You can adjust the picture quality differently for each video input that can be selected using the TV/VIDEO button, and store it in memory.



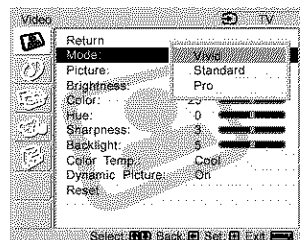
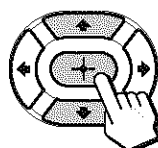
1 Press MENU.



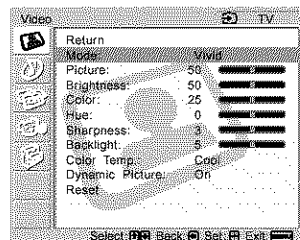
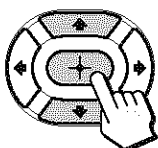
2 Press  $\uparrow/\downarrow$  to select  (Video), then press  $\oplus$ .



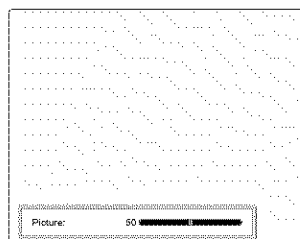
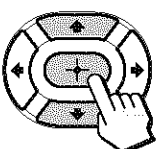
3 Press  $\uparrow/\downarrow$  to select "Mode," then press  $\oplus$ .



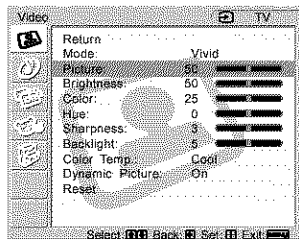
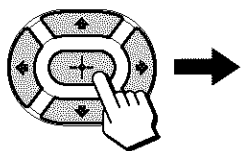
4 Press  $\uparrow/\downarrow$  to select the Picture Mode you want to adjust, then press  $\oplus$ .



5 Press  $\uparrow/\downarrow$  to select "Picture," then press  $\oplus$ .



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



### 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.

### 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/Neutral/Warm
Dynamic Picture	Select to enhance the picture contrast.	On/Off

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

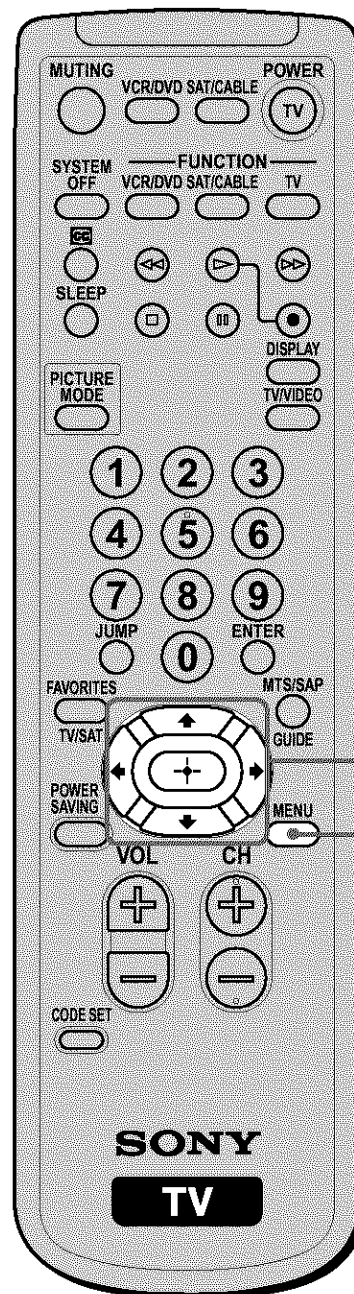
- 8 Press MENU to exit the menu screen.

### To reset to the factory settings

Select "Reset" in step 5, then select "OK" and press  $\oplus$ .

## Adjusting the Sound Quality

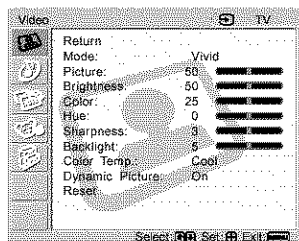
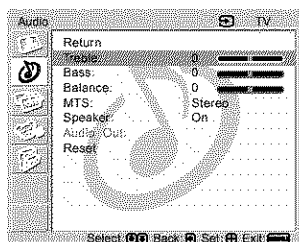
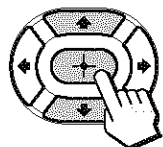
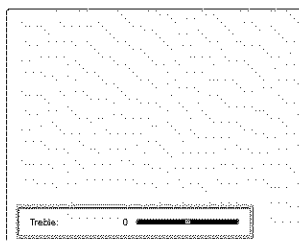
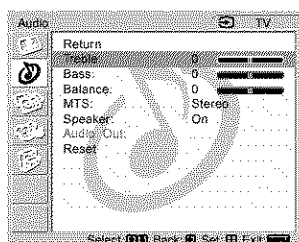
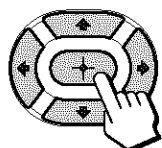
You can adjust the sound quality differently for each video input that can be selected using the TV/VIDEO button, and store it in memory.



2 - 5

1, 6

(Continued)

**1** Press MENU.**2** Press  $\uparrow/\downarrow$  to select (Audio), then press  $\oplus$ .**3** Press  $\uparrow/\downarrow$  to select the option you want to adjust, then press  $\oplus$ .**4** Press  $\uparrow/\downarrow/\leftarrow/\rightarrow$  to make the desired adjustment, then press  $\oplus$ .

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.

\* You cannot select these options if the TV's speaker is off and "Audio Out" in the (Audio) menu is set to "Fixed."

**Tip**

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

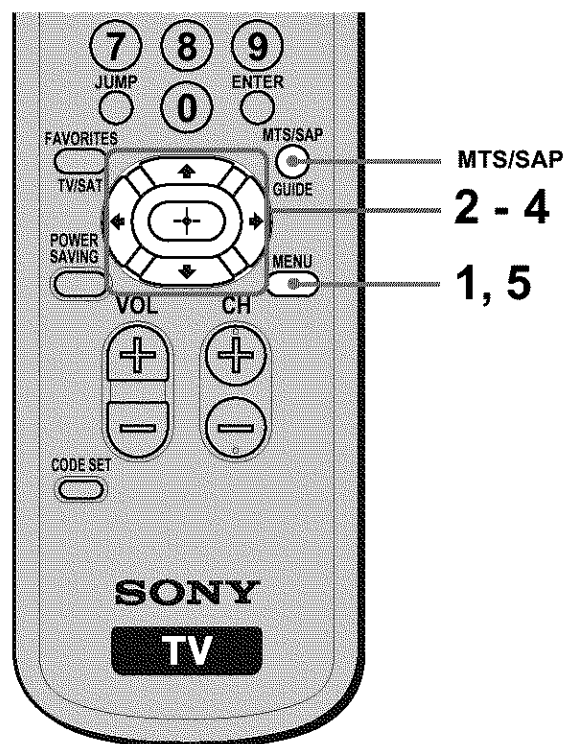
**5** Repeat steps 3 and 4 to adjust other options.**6** Press MENU to exit the menu screen.**To reset to the factory settings**

Select "Reset" in step 3, then select "OK" and press



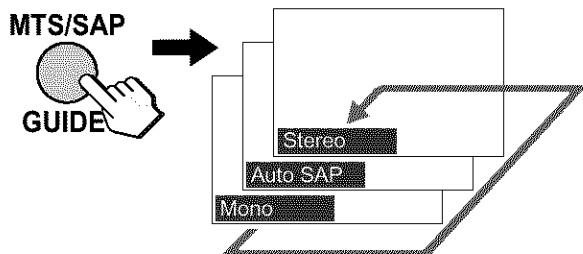
# Selecting Stereo or Bilingual Programs

You can enjoy stereo, bilingual and mono programs.



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

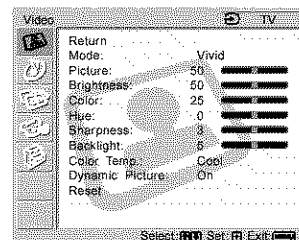
Each time you press the button, the sound indication changes as follows:



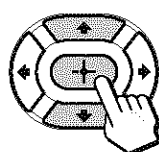
Sound indication	Description
Stereo	Select for stereo reception when viewing a program broadcast in stereo.
Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)
Mono	Select for mono reception.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

## Selecting stereo or bilingual programs using the menu

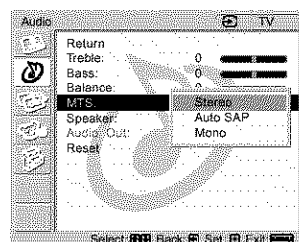
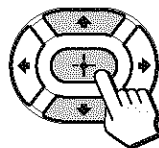
1 Press MENU.



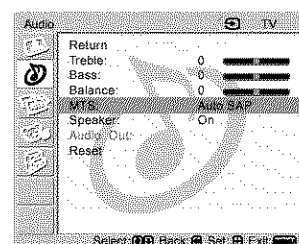
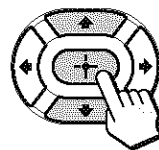
2 Press  $\uparrow/\downarrow$  to select (Audio), then press  $\oplus$ .



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



4 Press  $\uparrow/\downarrow$  to select the desired reception, then press  $\oplus$ .



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.

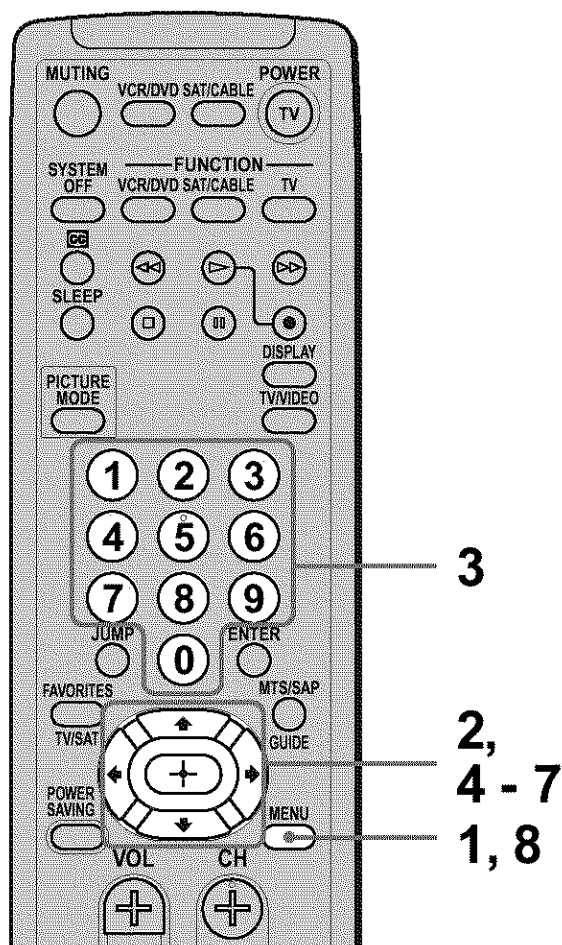
**In U.S.A.:** U.S. Television Parental Guidelines to rate television programs (U.S. TV ratings), and Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings).

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

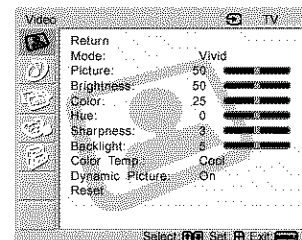
To block programs you feel unsuitable for your children, you need to set the TV for the desired rating systems. Sony's predetermined ratings are also available. See page 42 for a description of the ratings.

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

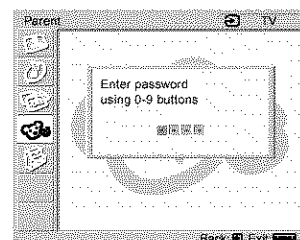
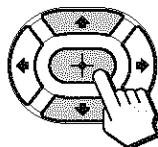
## Activating the Parental Control feature



**1** Press MENU.

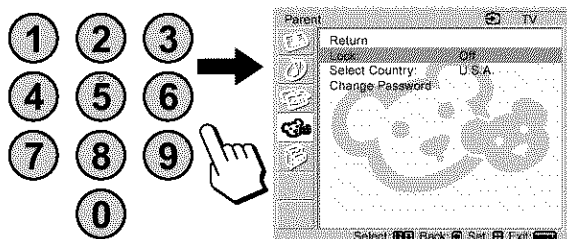


**2** Press  $\uparrow/\downarrow$  to select  (Parent), then press .

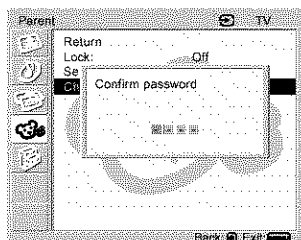


- 3** Enter a four-digit password using the 0-9 buttons.

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.



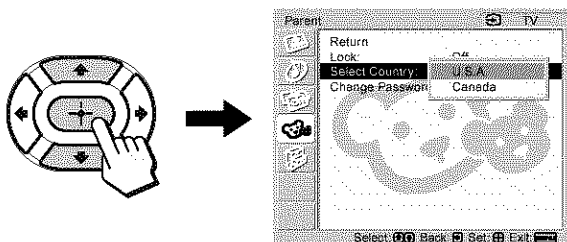
#### Note

Do not enter "4357" corresponding to "HELP" on a phone number pad (See page 40).

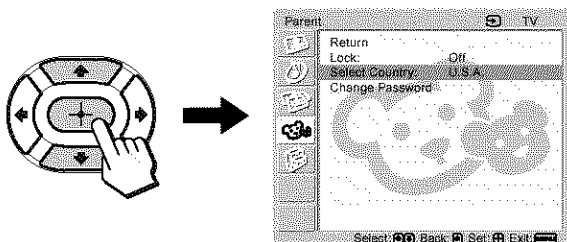
#### Tips

- You need to enter the password here for any further access into the Parent menu. If you lose your password, see "Tip" on page 40.
- If you want to change the password, see page 40.

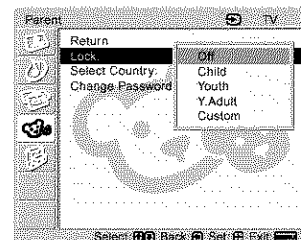
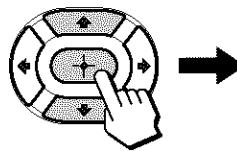
- 4** Press  $\uparrow/\downarrow$  to select "Select Country," then press  $\oplus$ .



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

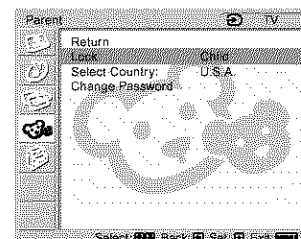
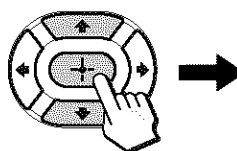


- 6** Press  $\uparrow/\downarrow$  to select "Lock," then press  $\oplus$ .



- 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 40).

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


### Viewing blocked programs

You can view blocked programs by entering the password.

- 1 Press 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, then press  $\oplus$ .
- 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 the first time, you cannot store a new password (See step 3 of "Activating the Parental Control feature" on page 39).
- 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 39).

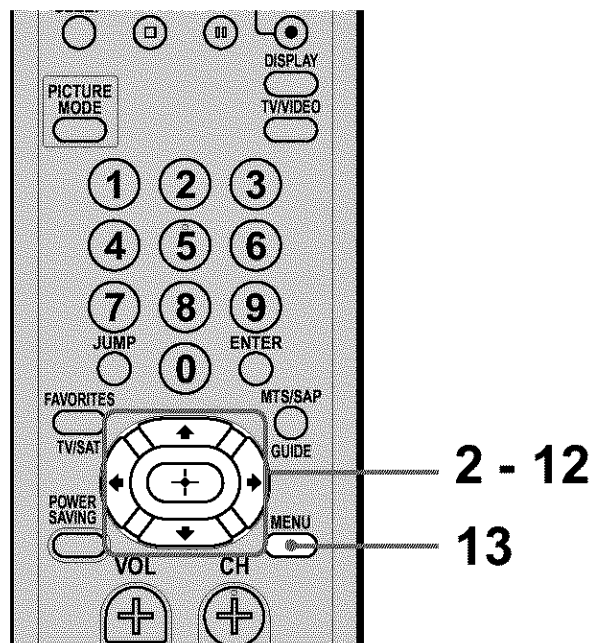
## Selecting a Custom Rating

If you want to select the ratings to be blocked from "Custom" once you have activated the Parental Control feature (page 38), follow the procedure below.

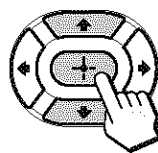
For a detailed description of each rating, see "What the Ratings Mean" on page 42.

### Note

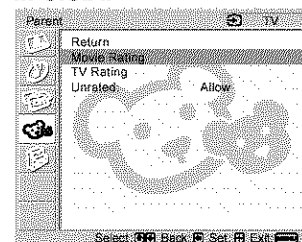
In the steps for selecting  or "-" in the following procedure, your selection takes effect once you select  or "-", without pressing  $\oplus$ .



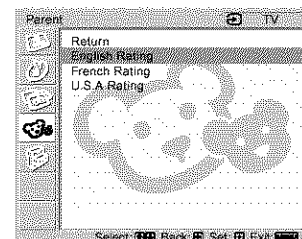
- 1 Perform steps 1 to 7 in "Activating the Parental Control feature" on page 38 to display the Lock options.
- 2 Press  $\uparrow/\downarrow$  to select "Custom," then press  $\oplus$ .



### In U.S.A.



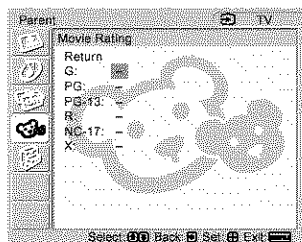
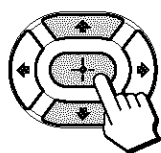
### In Canada



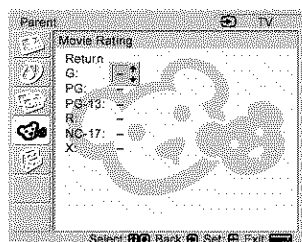
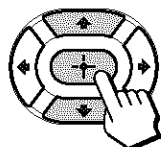
To select a rating in Canada, go to step 7.




- 3** Press  $\uparrow/\downarrow$  to select “Movie Rating,” then press  $\oplus$ .

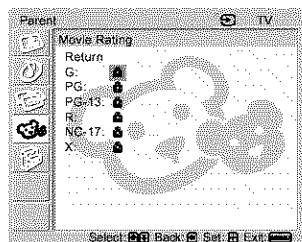
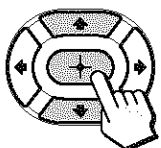



- 4** Press  $\uparrow/\downarrow$  to select the rating to be blocked, then press  $\oplus$ .




- 5** Press  $\uparrow/\downarrow$  to select  then press  $\oplus$ .

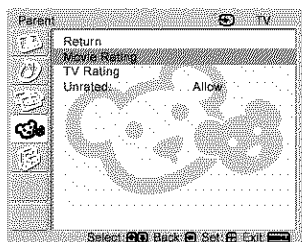
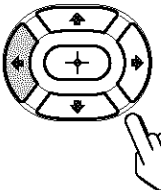
The  indication automatically appears beside the selected rating and all ratings below it, indicating that the programs that match the ratings will be blocked.



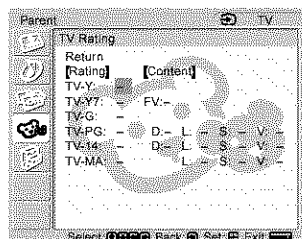
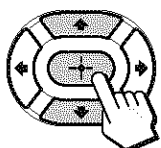
To unlock a rating, select , then press  $\oplus$ . Then press  $\uparrow/\downarrow$  to select “—.”

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

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

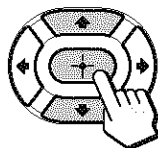


- 7** To select a TV rating in U.S.A.:  
Press  $\uparrow/\downarrow$  to select “TV Rating,” then press  $\oplus$ .

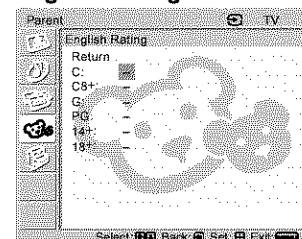


To select a TV rating in Canada:

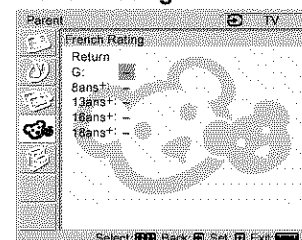
Press  $\uparrow/\downarrow$  to select “English Rating,” “French Rating,” or “U.S.A. Rating,” then press  $\oplus$ .



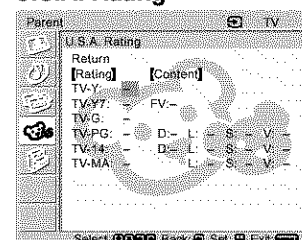
### English Rating




### French Rating




### U.S.A. Rating

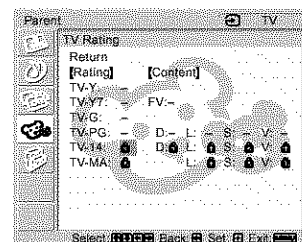
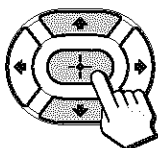



- 8** Press  $\uparrow/\downarrow$  to select the TV rating to be blocked, then press  $\oplus$ .


- 9** Press  $\uparrow/\downarrow$  to select , then press  $\oplus$ .

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  $\oplus$ . Then press  $\uparrow/\downarrow$  to select “—.”

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.

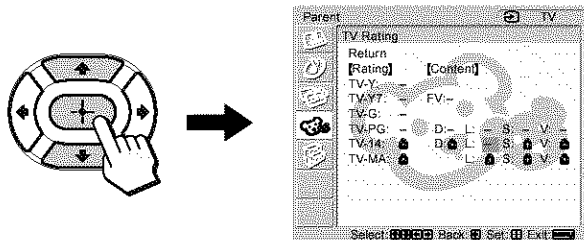
(Continued) 41

For more details of extenders, see page 44.

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 10. Otherwise, go to step 13.

- 10** Press  $\blacktriangleleft/\blacktriangleright$  to select the extender to be viewed, then press  $\oplus$ .

- 11** Press  $\blacktriangleup/\blacktriangledown$  to select “-,” 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  $\mathfrak{L}$ .

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

- 12** Repeat steps 10 and 11 for other extenders.

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

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

### Blocking 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.

- 1** Perform steps 1 and 2 of “Selecting a Custom Rating” on page 40.
- 2** Press  $\blacktriangleup/\blacktriangledown$  to select “Unrated,” then press  $\oplus$ .
- 3** Press  $\blacktriangleup/\blacktriangledown$  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, 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 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.

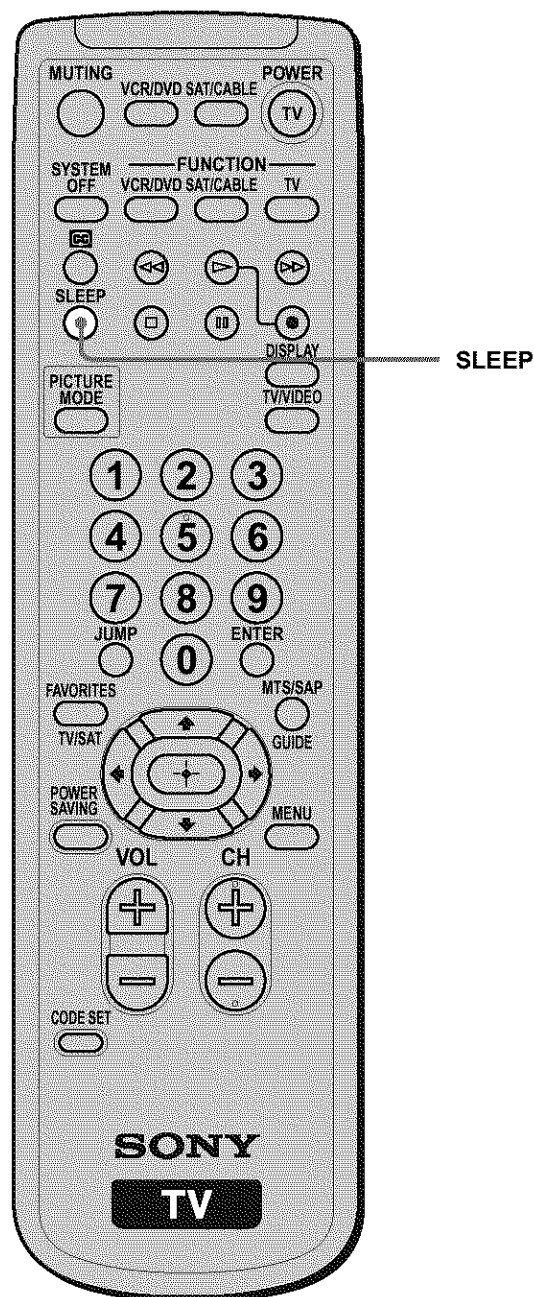
## Canadian French Language ratings

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.

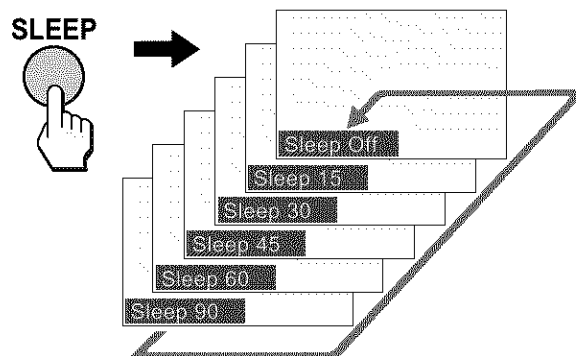
## Turning Off the TV Automatically

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 STANDBY/SLEEP 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.

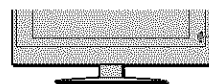
## Troubleshooting

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)




The TV is equipped with a self-diagnosis function. If there is a problem with your TV, the STANDBY/SLEEP indicator on the front panel will flash in orange repeatedly. Writing down the duration of flashes and interval between flashes helps you inform qualified Sony personnel of the TV's condition.






STANDBY/SLEEP indicator  
(flashing in orange)

- 1** Measure how long the STANDBY/SLEEP 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 POWER on the TV to turn it off, and disconnect the AC power adaptor and 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
<b>No picture.</b>	
Cannot receive any channels.	<ul style="list-style-type: none"> <li>• Make sure the power cord is connected securely.</li> <li>• Turn on the power of the TV.</li> <li>• Check antenna/cable connections.</li> </ul>
Cannot receive upper channels (UHF) when using an antenna.	<ul style="list-style-type: none"> <li>• Set "Cable" to "Off" in the  (Channel) menu (page 20).</li> <li>• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20).</li> </ul>
TV is locked to one channel.	<ul style="list-style-type: none"> <li>• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20).</li> <li>• Check your Channel Fix setting (page 21).</li> </ul>
Cannot receive any channels when using cable TV.	<ul style="list-style-type: none"> <li>• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20).</li> <li>• Make sure "Cable" in the  (Channel) menu is set to "On" (page 20).</li> </ul>
Cannot receive or select channels.	<ul style="list-style-type: none"> <li>• Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 20).</li> </ul>
The TV turns off automatically. (The TV enters the standby mode.)	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Check that the Sleep timer is activated (page 46).</li> </ul>
Some video sources do not appear.	<ul style="list-style-type: none"> <li>• Check the connection between the optional video equipment and the TV.</li> <li>• Press TV/VIDEO on the remote control (page 27).</li> <li>• 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).</li> <li>• This TV supports only the 480i signal format. If you connect the video equipment to the TV through the VIDEO 2 IN jacks, check that the equipment is set to output 480i signals.</li> </ul>

Problem	Possible remedies
<b>Poor picture.</b>	
Double images or ghosts.	<ul style="list-style-type: none"> <li>• Check antenna/cable connections.</li> <li>• Check the antenna location and direction.</li> </ul>
Only snow and noise appear on the screen.	<ul style="list-style-type: none"> <li>• Check if the antenna is broken or bent.</li> <li>• Check if the antenna has reached the end of its serviceable life (3-5 years in normal use, 1-2 years at the seaside).</li> </ul>
Dotted lines or stripes.	<ul style="list-style-type: none"> <li>• Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers.</li> </ul>
No color.	<ul style="list-style-type: none"> <li>• Press PICTURE MODE to select the desired Picture Mode (page 24).</li> </ul>
Color is not correct.	<ul style="list-style-type: none"> <li>• Adjust the Picture Mode options in the  (Video) menu (page 34).</li> </ul>
Dark picture.	<ul style="list-style-type: none"> <li>• If you set the Power Saving function to “Reduced,” the picture may become dimmer (page 25).</li> </ul>
The picture is too bright.	<ul style="list-style-type: none"> <li>• Press PICTURE MODE to select the desired Picture Mode (page 24).</li> </ul>
Picture (stripe) noise.	<ul style="list-style-type: none"> <li>• Make sure that the antenna is connected using the supplied 75-ohm coaxial cable.</li> <li>• Keep the antenna cable away from other connecting cords.</li> <li>• Do not use 300-ohm twin lead cables as interference may occur.</li> </ul>
<b>No sound./Noisy sound.</b>	
Good picture, no sound.	<ul style="list-style-type: none"> <li>• Check the volume control.</li> <li>• Press MUTING or VOL + so that “Muting” disappears from the screen (page 23).</li> <li>• Disconnect your headphones.</li> <li>• 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.</li> </ul>
Audio noise.	<ul style="list-style-type: none"> <li>• Make sure that the antenna is connected using the supplied 75-ohm coaxial cable.</li> <li>• Keep the antenna cable away from other connecting cords.</li> <li>• Do not use 300-ohm twin lead cables as interference may occur.</li> <li>• Press MTS/SAP to select “Mono” (page 37).</li> </ul>
<b>Cannot operate the menu.</b>	<ul style="list-style-type: none"> <li>• If the item you want to select appears in a pale color, you cannot select it.</li> </ul>
<b>Screen Mode changes automatically with the “16:9 Enhanced” option set to “Auto.”</b>	<ul style="list-style-type: none"> <li>• The TV automatically detects the aspect ratio signal transmitted with the picture signal and displays the picture at its original aspect ratio (page 26).</li> </ul>
<b>The picture looks distorted, with people appearing unnaturally tall and thin, with the “16:9 Enhanced” option set to “On.”</b>	<ul style="list-style-type: none"> <li>• 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 26).</li> </ul>
<b>Remote control does not operate.</b>	<ul style="list-style-type: none"> <li>• The batteries could be weak. Replace the batteries.</li> <li>• Check the polarity of the batteries.</li> <li>• If the STANDBY/SLEEP indicator on the TV does not light in red, press POWER on the TV.</li> <li>• Point the remote control at the remote control sensor of the TV.</li> <li>• Install the TV away from fluorescent lights.</li> </ul>
<b>Cannot change channels with the remote control.</b>	<ul style="list-style-type: none"> <li>• Be sure you have not inadvertently switched your TV from channel 3 or 4 setting if you are using another device to change channels.</li> <li>• 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 28).</li> </ul>
<b>Lost password.</b>	<ul style="list-style-type: none"> <li>• 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 40).</li> </ul>



# 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):

15 inches

## Panel System:

a-Si TFT Active Matrix LCD panel

(Effective dots: more than 99.99%)

## Display resolution:

1024 dots (horizontal) × 768 lines (vertical)

## VIDEO 1 IN:

S VIDEO IN (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 2 IN:

COMPONENT VIDEO (Y, P<sub>B</sub>, P<sub>R</sub>) IN:

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

P<sub>B</sub>: 0.7 Vp-p, 75 ohms

P<sub>R</sub>: 0.7 Vp-p, 75 ohms

Signal format: 480i

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:

50 × 90 mm (2 × 3 <sup>5</sup>/<sub>8</sub> inches) oval speaker (2)

## Speaker output:

3 W × 2, 16 ohms

## Power requirement:

120 V AC, 60 Hz

## DC input:

16.5 V DC

## Power consumption:

In use (Max.): 39 W

In standby: 1.9 W

## Dimensions (W/H/D):

Including TV stand: 406 × 405 × 184 mm  
(16 × 16 × 7 <sup>1</sup>/<sub>4</sub> inches)

Without TV stand: 406 × 348 × 69 mm  
(16 × 13 <sup>3</sup>/<sub>4</sub> × 2 <sup>3</sup>/<sub>4</sub> inches)

## Mass:

Including TV stand: 5.3 kg (11 lb 11 oz)

Without TV stand: 4.5 kg (9 lb 15 oz)

## Supplied accessories:

Remote control RM-917Y (1)

Batteries size AA (2)

75-ohm coaxial cable (1)

AC power cord (1)

AC power adaptor AC-FD001B (1)

Operating Instructions

Warranty Card

## Optional accessories:

Note that some optional accessories may be out of stock.

Headphones plug adaptor

Connecting cables

VMC-810S/820S, YC-15V/30V,  
RK-74A, VMC-10HG, SMF-403

Wall-Mount Bracket

SU-W100

Design and specifications are subject to change  
without notice.

# Index

16:9 Enhanced ..... 26

## A

### Adjusting

picture quality ..... 34  
 sound quality ..... 35  
 viewing angle of the TV ..... 11  
 volume ..... 23

Audio Out ..... 15

Auto Program ..... 20

Auto SAP ..... 37

Auto YC ..... 12

## C

Cable TV ..... 20

Channel setting ..... 20

Channel Fix ..... 21

Channel Skip/Add ..... 21

Closed caption ..... 24

Component Video connectors .. 16, 18, 19

Connecting ..... 7

antenna ..... 9

audio receiver ..... 15

cable box ..... 9

digital satellite receiver ..... 18

digital TV receiver ..... 19

DVD player ..... 16, 17

power cord ..... 10

satellite receiver ..... 13, 14

VCR ..... 12

## D

Display ..... 23

## F

Favorite channels ..... 31

Front and rear connectors ..... 8

## I

Input select ..... 27

## J

Jump ..... 23

## L

Language selection ..... 22

## M

Menu ..... 33

Mono ..... 37

MTS ..... 37

Muting ..... 23

## O

Optional equipment ..... 28

## P

Parent ..... 38

password ..... 40

ratings ..... 42

Picture Mode ..... 24

Power on/off ..... 23

Power Saving ..... 25

Pro ..... 25

## R

Remote control ..... 7

battery installation ..... 7

operating optional equipment ..... 30

programming ..... 28

## S

S Video Input jack ..... 12

Self-diagnosis function ..... 47

Sleep timer ..... 46

Speaker ..... 15

Specifications ..... 49

Standard ..... 25

Stereo ..... 37

System off ..... 23

## T

Troubleshooting ..... 47

## U

UHF channels ..... 20

Unpacking ..... 7

## V

Vivid ..... 25

Volume ..... 23

<http://www.sony.net/>



Printed on 100% recycled paper using VOC  
(Volatile Organic Compound)-free vegetable oil  
based ink.

Printed in Japan