4-093-876-**21**

SONY®



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KV-27FV310 KV-32FV310 KV-36FV310

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WARNING

To reduce the risk of fire or electric shock, 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.

Note to the CATV Installer

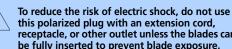
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

SAFETY PRECAUTIONS

- Operate the TV only on 120 V AC.
- One blade of the power plug is wider than the other for safety purposes and will fit into the power 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 falls into the TV, unplug it and have it checked by qualified personnel before operating it further.

CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same channel can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the results of misuse.



this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.

٤ı You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

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.

Protecting the TV

- To prevent internal heat build-up, 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.

Note on Caption Vision

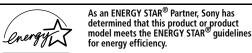
This television receiver provides display of television closed captioning in accordance with § 15.119 of the FCC rules. Use of this television for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster-cable company and/or program owner.

Owner's Record

The model and serial numbers are located on the front cover of this manual and at the rear of your TV.

Trademarks and Copyrights

ENERGY STAR[®] is a registered mark.



WEGA[®], FD Trinitron and Caption Vision are registered trademarks

of Sony Corporation. Licensed by BBE Sound, Inc. under USP 4638258.4482866. BBE and BBE symbol are trademarks of BBE Sound, Inc.

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.

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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

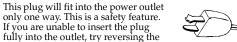


those sets designed to operate from battery power, refer to the operating instructions.

Grounding or Polarization

This set may be equipped with a polarized alternating current line plug (a plug having one blade wider than other). 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 replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

For the set with a polarized AC power cord plug



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. Alternate Warning

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 to be 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.

Do not disconnect the antenna or the power cord during a heavy storm. Lightning may strike while you are holding the cable or cord, causing serious injury. Turn off your TV and wait for the weather to improve.

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.

Attachments

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

Do not place any objects, especially heavy objects, on top of the set. The object may fall from the set, causing injury.

Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.

If a snapping or popping sound from a TV set If a shapping or popping sound non a 1's 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.

Installation

Always use two or more people to lift or move the set. The set is heavy and the bottom surface is flat. Serious injury can result from trying to move the set by yourself alone, or from unsteady handling.

Install the set on a stable, level surface.

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.

Accessories

Do not place the set on an unstable cart, stand, tripod, bracket. 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 the manufacturer for the specific model of TV. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 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

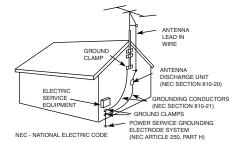
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

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

Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70.



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 or objects have fallen into the product.
- 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.

Servicing

Replacement Parts

shock, or other hazards.

Safety Check

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.

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.

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement

parts specified by the manufacturer that

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.

improper disposal could result in a picture

tube implosion. Ask a qualified service technician to dispose of the set.

have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric

Ð CRACKED PLUG

When the set exhibits a distinct change in performance — this indicates a need for service.



Upon completion of any service or repairs to When the set reaches the end of its useful life,





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Introduction

Congratulations on your purchase of the Sony FD Trinitron WEGA®.

Introducing the FD Trinitron WEGA[®] Features

Some of the features you will enjoy include:

- □ **High Voltage Regulator** Provides a significant improvement to picture quality by increasing the brightness and focus.
- □ **FD Trinitron Flat CRT** Delivers a picture with uncompromising accuracy and outstanding image detail via a technologically advanced tube.
- □ **Y**, **P**_B, **P**_R **Inputs** Provides component video inputs for superior picture quality (480i only).
- □ **WOW** Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is directly activated to further enhance the audio performance.
- **TruSurround** Produces a dynamic three dimensional sound for stereo audio signals.
- **BBE** Gives sound more impact by using audio technology to compensate for phase effects in speakers.
- Parental Control (V-Chip) Helps parents monitor what their children watch on TV by establishing rating limits.
- **ClearEdge VM** Sharpens picture definition to give objects a crisp, clean edge.
- **DynaBlack** Improves contrast and sharpens image detail.
- **Picture in Picture (PIP)** Allows you to view two programs simultaneously.
- **Favorite Channels** Provides instant access to your favorite channels with the touch of a button.
- □ **Info Banner** Displays the name and the remaining time of the current program viewed, if available.
- □ **Universal Remote Control** Operates your connected cable box, VCR, digital satellite receiver, or DVD player.
- **Energy Star**[®] Meets the Energy Star guidelines for energy efficiency.
- □ **Front Panel Controls** Allows access to the on-screen menus without the use of a remote control.
- □ **Front A/V Inputs** Lets you quickly connect video games, camcorders or stereo/mono equipment.

About this Manual

This manual provides instructions to help you enjoy your new TV. It shows you how to connect to an antenna or cable, cable box, VCR, DVD, satellite receiver, stereo system, or camcorder. Once your TV is connected, follow the instructions and use the remote control to access the on-screen menus.

Batteries for the Remote Control

Insert two AA (R6) batteries (supplied) into the remote control using the following illustration as a guide.



- Under normal conditions, batteries will last up to six months. If the remote control does not operate properly, the batteries might be worn out.
- If you will not be using the remote control for an extended period of time, remove the batteries to avoid possible damage from battery leakage.

Front Panel Menu Controls



The front Audio/Video panel controls allow you to access the menu without the remote control.

- $\Box \quad \text{Press} \stackrel{\text{MENU}}{\bigcirc} \text{ to display the on-screen menu.}$
- □ Use the ④ and ③ buttons on the front Audio/Video panel instead of your remote control.
- □ Use the ⊕ button on the front Audio/Video panel to navigate through the menus, then select an item. The front panel controls also allow you to change your channels (CH+/-), adjust the volume (VOL +/-), and change video inputs.

🖉 To navigate the menus with your remote control, see "Using the Menus" on page 29.

Using the Remote Control

Remote Control Description

			Button	Description
		1	MUTING	Press to turn off the sound. Press again or press
1				$\stackrel{\text{VOL}}{\textcircled{\bullet}}$ to restore sound.
1-	MUTING	2	SYSTEM OFF	Press to turn off the equipment programmed into the remote control. See "Programming the Remote Control" on page 5.
2- 3- 4-	OFF VCP/DVD SATICABLE TV TV/CR FREEZE SWAP PIP + O + POSITION AUDIO TV/VIDEC - O + O + O + O + O + O + O + O + O + O	_	TV/VCR	Press to switch between TV and VCR mode. If you have a non-Sony VCR, you will need to program the remote control to recognize your VCR. For details; see "Programming the Remote Control" on page 5.
5	MODE SLEEP MTS/SAP DISPLAY		ANT (antenna)	Press to switch between VHF/UHF input to the AUX input.
6		-0	PICTURE MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Movie and Pro. Also available in the Video menu. See "Using the Video Menu" on page 30 for details.
7 8		_	SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until Sleep Off appears. While the Sleep feature is set, press once to view the remaining time.
9		7	JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that you selected. JUMP will not work if any FUNCTION Mode (VCR/DVD, SAT/ CABLE, TV) is activated.
	CODE SET	8	TV/SAT	Press to switch between the TV and SAT (satellite) inputs when in SAT FUNCTION mode.
11-	SONY			Press for a direct selection of Effect settings (Simulated, WOW, TruSurround, Off) when the remote is in TV FUNCTION mode. See "Using the Audio Menu" on page 31 for details.
		9	RESET	Press to return to factory settings while in an on-screen menu.
		10	VOL (volume)	Press (+) or (-) to adjust the volume.
		11	CODE SET	Press to program your remote control to operate connected video equipment. See "Programming the Remote Control" on page 5.

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	Button	Description
12	POWER buttons	Press to turn on and off the TV and other audio/ video equipment you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 5.
13	FUNCTION buttons	Press to select the equipment (VCR/DVD, SAT/ CABLE, TV) that you want to operate with the remote control. The indicator (LED) lights up momentarily when pressed to show which device the remote control is operating.
14	PIP (Picture in Picture)	Press to operate PIP feature. See "Using Picture in Picture (PIP)" on page 26.
	VCR (operating)	Press to operate your VCR. The VCR must be programmed into the remote control. For instructions, see "Programming the Remote Control" on page 5.
	● and ► (to record)	Press the ● button and the ► button at the same time to record programs with your VCR. The remote control must be programmed before you can use REC.
	44	Rewind.
	••	Fast-forward.
		Play.
		Stop.
	11	Pause. Press again to resume normal playback.
15	TV/VIDEO	Press to cycle through available video inputs.
16	DISPLAY	Press once to display the current time (if set) and the program status such as channel number, Channel Label (if set), video input, and Video Label (if set). Press again to turn off the display.
17	MTS/SAP	Press to cycle through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP (Second Audio Programming), and Mono.
18	0-9 and ENTER	Press to change channels. The channel changes after two seconds.
19	GUIDE	Press to display the program guide of your satellite antenna.
20		Press the arrow buttons to move the cursor in the on-screen menus. Press the center button to select an option.
21	MENU	Press to display the on-screen menu. Press again to exit the menu at any time.
22	CH (channel)	Press to change channels. To scan rapidly through the channels, press and hold down the CH+ or CH- button.

🖉 For information on Picture in Picture (PIP) operation buttons, see page 27.

🖉 If you lose your remote control, see page 46.

Programming the Remote Control

In order to use your remote control with other equipment, you need to program your remote control. Use the following procedure to program the remote control.

- 1 Check the list of "Manufacturer's Codes" on page 6 and find the three-digit code number for the manufacturer of your component. If more than one code number is listed, use the number listed first.
- **2** Press $\bigcirc^{\text{CODE SET}}$.

3 Press or button to indicate the type of component you want to program with the remote control.

Kan You must do step 4 within 10 seconds of step 3, or you must redo steps 2 and 3.

- **4** Use the **()**-**()** buttons to enter the three-digit manufacturer's code number.
- **5** Press \bigcirc^{ENTER} .
- **6** To check if the code number works, aim the TV's remote control at the component and press on the green POWER button that corresponds with that component. If it responds, you are done. If not, try using another code listed for that manufacturer.
 - 🖾 If you have problems programming your remote control, see "Troubleshooting" on page 45.

Manufacturer's Codes

VCRs

9

VCNS	
Manufacturer	Code
Sony	301, 302, 303
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
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

Manufacturer	Code
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
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
Fatung	314, 336, 337
Геас	314, 336, 338, 337
Technics	309, 308
[oshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Laserdisc Players

Code
701
704,710
702

DVD Players

Manufacturer	Code
Sony	751
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA	755
Samsung	758
Toshiba	754
Zenith	760

Cable Boxes

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

Satellite Receivers

Manufacturer	Code	
Sony	801	
DIRECT TV	809	
Dish Network	810	
Echostar	810	
General Electric	802	
Hitachi	805	
Hughes	804	
Mitsubishi	809	
Panasonic	803	
RCA/ PROSCAN	802, 808	
Toshiba	806, 807	

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Using your TV Remote Control with Other Equipment

Operating a VCR	
Press	То
VCR/DVD	Power on the VCR (VCR/DVD green button)
0-9	Select a channel
CH CH	Change channels
•	Play video tape
	Stop
I or III	Search forward or backward
II	Pause
• and ►	Record
TV/VCR	Switch between VCR and TV inputs

Operating a DVD Player

Press	То
	Power on the DVD (VCR/DVD green button)
0-9	Select chapters
	Search chapters forward or backward
	Play DVD
	Stop
11	Pause
MENU	Display the DVD menu
	Use the arrow buttons to move the cursor in the menu, and the center button to select an option

Operating a Laser Disc Player

Press	То
VCR/DVD	Power on the laser disc (VCR/DVD green button)
CH CH	Search chapters forward or backward
	Play disc
	Stop
11	Pause

Operating a Satellite Receiver

То
Power on the satellite receiver (SAT/CABLE green button)
Select a channel
Change channels
Back to previous channel
Display channel number
Display SAT GUIDE
Display SAT Menu
Use the arrow buttons to move the cursor in the menu, and the center button to select an option

Operating a Cable Box

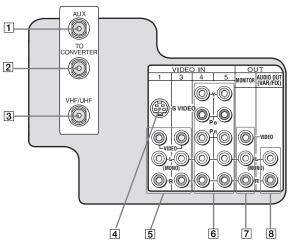
Press	То
SAT/CABLE	Power on the cable box (SAT/CABLE green button)
0-9	Select a channel
	Change channels
JUMP	Change back to previous channel

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Connecting Your TV

Read this section before setting up your TV for the first time. This section explains how to make the basic connections and how to connect optional equipment.

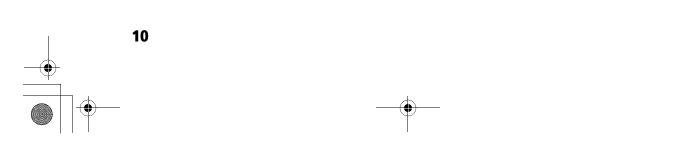
TV Rear Panel



Jack	Description
1 AUX	This input allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels by pressing ANT on the remote control. Devices connected to the AUX input cannot be viewed in PIP.
2 TO CONVERTER	This is a VHF/UHF out jack that lets you set up your TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels.
3 VHF/UHF	This input connects to your VHF/UHF antenna or cable.
4 S VIDEO	This input connects to the S VIDEO OUT jack on your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than the VHF/UHF jacks or the video input jack. S VIDEO does not provide sound, so you still must connect the audio cables.



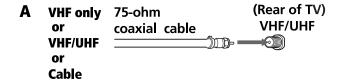
Jack	Description
5 AUDIO L(MONO), R/ VIDEO	This input connects to the AUDIO/VIDEO output jacks on your VCR or other video equipment. A third video input jack (VIDEO 2) is located on the front panel of the TV. These AUDIO/VIDEO input jacks provide better picture quality than the VHF/UHF jack.
6 Y, P _в , P _R / L(MONO), R	These inputs (Video 4-5) connect to the component video Y, P_B , P_R , and AUDIO L(MONO), R jacks on your DVD player or digital set-top box (480i only).
7 MONITOR OUT	This output lets you record the program you are watching to a VCR. When two VCRs are connected (see "Connecting Two VCRs for Tape Editing" on page 21), you can use your TV as a monitor for tape-to-tape editing.
8 AUDIO OUT (VAR/FIX) L(MONO), R	This jack connects to the Audio input jacks on your audio equipment. You can listen to your TV's audio through your stereo system.



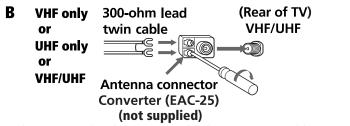
Basic Connections

TV with Cable, Indoor, or Outdoor Antenna

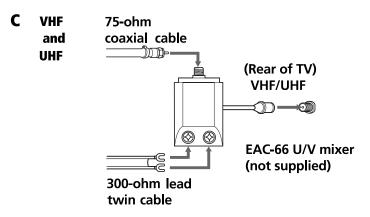
Depending on the cable system available in your home, choose one of the connections below:



Use this to connect the TV to a cable system or an antenna with a 75-ohm cable (usually built in to newer homes).



Use this to connect the TV to a dipole antenna, also known as a "rabbit ears antenna" (usually found in older homes).



This allows you to connect your TV to both a cable system and a dipole antenna, in order to view both cable and local channels.

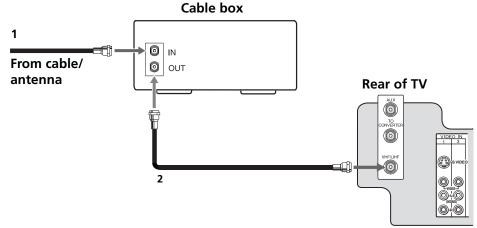
If you are connecting to an indoor or outdoor antenna, you may need to adjust the orientation of the antenna for the best reception.



Cable Box Connections

Some cable TV systems use scrambled or encoded signals that require a cable box to view all channels. If you subscribe to that kind of cable service, use this connection. Scrambled signals coming in to the TV through the cable box cannot be viewed in PIP. If some, but not all, of your channels are scrambled, consider using the cable box and cable connection.

TV and Cable Box



- 1 Connect the coaxial cable from your cable service to the IN jack on your cable box.
- **2** Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the VHF/UHF jack on your TV.

Using your TV with this connection

This connection allows you to do the following:

- □ Program your Sony remote control to operate your cable box (see page 5).
- □ To activate your remote press ^{SAT/CABLE} to operate your cable box and then use the **()**-**()** buttons or CH+/- buttons to change the channels. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 33).

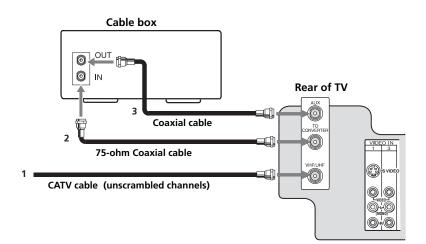
Cable Box and Cable

Use this connection if you subscribe to a cable system that scrambles some channels (pay channels) but not all of them. This setup allows you to use the remote control to:

- **c** change channels through your cable box when you are receiving a scrambled signal
- □ change channels through your TV

This connection also allows you to use the PIP feature when you are viewing unscrambled channels coming directly into your TV from your cable. Scrambled signals coming through the cable box cannot be viewed in PIP. For more information on the PIP feature, see page 26.

DIGITAL CABLE BOX USERS: Do not use this connection. The TO CONVERTER jack is not compatible with digital boxes.



- 1 Connect the coaxial cable from your cable service to the VHF/UHF jack on your TV.
- **2** Using a coaxial cable (not supplied), connect the IN jack on your cable box to the TO CONVERTER jack on your TV.
- **3** Using a coaxial cable (not supplied), connect the OUT jack on your cable box to the AUX jack on your TV.

Using your TV with this connection

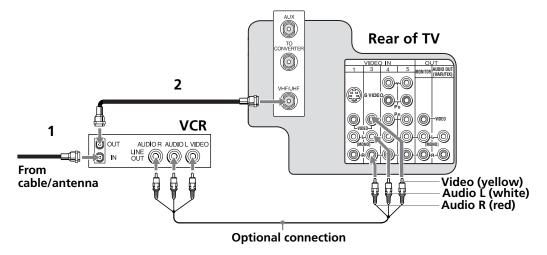
This connection allows you to do the following:

- □ Program your Sony remote control to operate your cable box (see page 5).
- □ To activate your remote, press → to operate your cable box and then use the ①-③ buttons or CH+/- buttons to change the channels. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 33).
- □ Press → to switch back and forth between VHF/UHF (local channels or unscrambled) and AUX (cable system or pay channels).



Connecting Additional Equipment

Connecting a TV and VCR



- 1 Connect the coaxial cable from your TV antenna or cable service to the IN jack on your VCR.
- **2** Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF jack on the TV.

Optional connection

- □ If your VCR is equipped with video outputs, you can get better picture quality by connecting audio/video cables (not supplied) from AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.
- □ For better picture quality, use S VIDEO instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.

Using your TV with this connection

This connection allows you to do the following:

- □ Program your Sony remote control to operate your VCR (see page 5).
- □ To activate your remote, press ^{VCR/DVD} to operate your VCR. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 33).



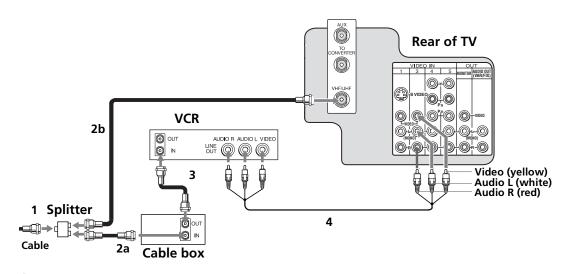
Connecting a TV, VCR, and Cable Box

DIGITAL CABLE BOX USERS: If you are connecting a digital cable box, you will need a special bidirectional splitter that is designed to work with your digital cable box.

Use this connection if you subscribe to a cable system that scrambles some channels (pay channels), but not all of them. This setup allows you to use the remote control to:

- change channels through your cable box or VCR when you are receiving a scrambled signal
- □ change channels through your TV

This connection also allows you to use the PIP feature when you are viewing unscrambled channels coming directly into your TV from your cable. Scrambled signals coming through the cable box cannot be viewed in PIP. For more information on the PIP feature, see page 26.



- 1 Connect the single input jack of the splitter to your incoming cable connection.
- **2** Using coaxial cables (not supplied), connect the two output jacks of the splitter to:
 - **a)** the IN jack on your cable box
 - **b)** the VHF/UHF jack on the TV
- **3** Using a coaxial cable (not supplied), connect the OUT jack on your cable box to the IN jack on your VCR.
- **4** If your VCR is equipped with video outputs, you can get better picture quality by connecting audio/video cables (not supplied) from AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.

(continued) **15**

DIGITAL CABLE BOX USERS: Do not use this connection. The TO CONVERTER jack is not compatible with digital boxes.

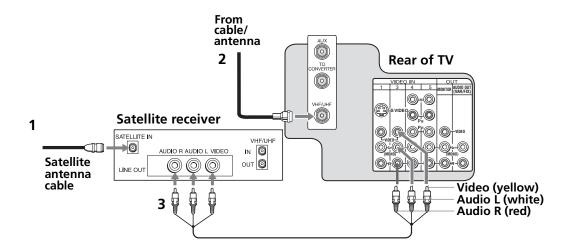
Optional connection

□ For better picture quality, use S VIDEO instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.

Using your TV with this connection

- □ Program your Sony remote control to operate your VCR or cable box (see page 5).
- To activate your remote, press vorvoo to operate your VCR or saturable to operate your cable box. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 33).
- □ Press → repeatedly to switch between VCR input (VIDEO input), VHF/UHF (local channels or unscrambled), or cable box (cable system or scrambled channels).

Connecting a TV and Satellite Receiver



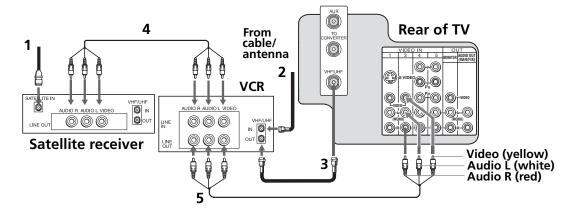
- 1 Connect the cable from your satellite antenna to SATELLITE IN on your satellite receiver.
- **2** Connect the coaxial cable from your cable service or antenna to the VHF/UHF jack on your TV.
- **3** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to AUDIO/VIDEO IN on your TV.

Using your TV with this connection

This connection allows you to do the following:

- □ Program your Sony remote control to operate your satellite receiver (see page 5).
- □ To activate your remote, press to operate your satellite receiver. See page 7 on how to operate other functions.
- □ Press crepeatedly to switch to satellite receiver input (VIDEO input).

Connecting a TV, VCR, and Satellite Receiver



- **1** Connect the coaxial cable from your satellite antenna to SATELLITE IN on the satellite receiver.
- **2** Connect the coaxial cable from your cable service or antenna to the IN jack on your VCR.
- **3** Using a coaxial cable (not supplied), connect the OUT jack on your VCR to the VHF/UHF jack on your TV.
- **4** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to AUDIO/VIDEO IN on your VCR.
- **5** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.

To view from the satellite receiver or VCR, select the video input to which your satellite receiver or VCR is connected by pressing to the remote control.

Using your TV with this connection

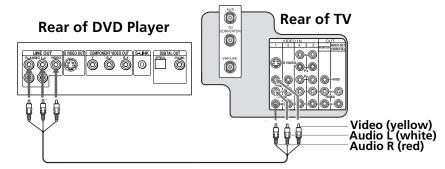
This connection allows you to do the following:

- □ Program your Sony remote control to operate your VCR or satellite receiver (see page 5).
- **u** Turn on your VCR to enable your satellite receiver to work with this connection.
- □ To activate your remote, press ^{VOR/DVD} to operate your VCR or ^{SATICABLE} to operate your satellite receiver.
- □ Press ^{™MDEO} repeatedly to switch between VCR input (VIDEO input), VHF/UHF (local channels or unscrambled), or your cable box (cable system or scrambled channels).



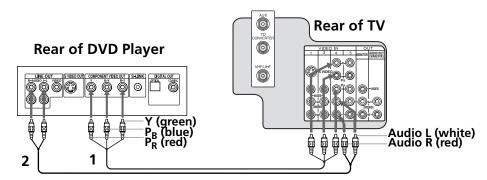
Connecting a DVD Player

Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your DVD player to AUDIO/VIDEO IN on your TV.



Optional connection

- □ For better picture quality, use S VIDEO instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.
- □ If your DVD player is equipped with component video outputs (Y, P_B, P_R), you can improve the picture quality by using component video cables (480i only). This connection can be done on VIDEO 4 or 5 (both Y, P_B, P_R).
- PIP feature is not compatible with VIDEO 4-5, you can use VIDEO 1or 3. These inputs are compatible with PIP.



- **1** Using component video cables (not supplied), connect the Y, P_B, P_R OUT on your DVD player to Y, P_B, P_R IN on your TV.
- 2 Connect AUDIO OUT on your DVD player to AUDIO IN on your TV.
- The Y, PB, PR outputs on your DVD player are sometimes labeled Y, CB, and CR or Y, B-Y, and R-Y. If so, connect the cables to like colors.

Using your TV with this connection

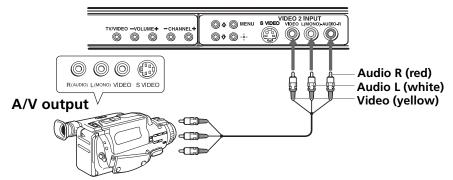
This connection allows you to do the following:

- □ Program your Sony remote control to operate your DVD (see page 5).
- **\Box** To activate your remote, press $\bigcirc^{VCR/DVD}$ to operate your DVD.
- □ Press repeatedly to switch to the DVD player's input (VIDEO input).

Connecting a Camcorder

To connect your camcorder, you can use the Audio/Video inputs on either the front or rear panel of the TV. Using the audio/video cables (not supplied), connect the AUDIO/VIDEO OUT on your camcorder to the AUDIO/VIDEO IN on your TV.



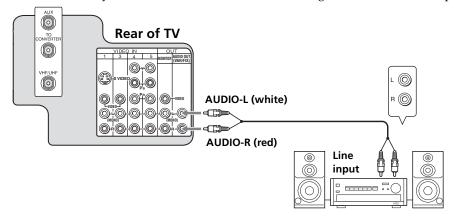


Optional connection

□ For better picture quality, use S VIDEO instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.

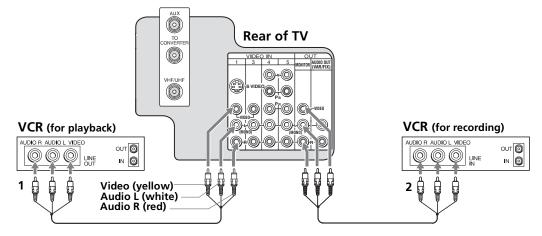
Connecting an Audio System

- **1** Using audio/video cables (not supplied), connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE2) on your stereo.
- **2** Set the Speaker option to Off. For more instructions, see "Using the Audio Menu" on page 31.
- **3** Open the Audio Out option on the Audio Menu and select Fixed to control the volume through the connected audio system. For more instructions, see "Using the Audio Menu" on page 32.



Connecting Two VCRs for Tape Editing

You can connect two VCRs together to edit video tapes. You can also connect both VCRs to your TV to view the program being recorded.



- 1 Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your first VCR to AUDIO/VIDEO IN on your TV.
- **2** Using audio/video cables (not supplied), connect AUDIO/VIDEO IN on the second VCR to the MONITOR AUDIO/VIDEO OUT on your TV.

Using your TV with this connection

This connection allows you to do the following:

- □ Program your Sony remote control to operate your VCR (see page 5).
- □ To activate your remote press ^{VOR/DVD} to operate your VCR, see page 7 on how to operate other functions.
- □ Press ^{TVVIDEO} repeatedly to switch DVD input (VIDEO inputs).

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Using Basic Functions

Setting Up the TV

After you have finished connecting your TV, you can use Auto Program to set up your channels. During Auto Program, the TV will automatically search for available channels and program receivable channels.

🖉 When you start Auto Program wait until it is finished; otherwise it will skip over channels that are available. Perform Auto Program again to program receivable channels.

- **1** Press \bigcirc^{POWER} to turn on the TV. The Initial Setup screen appears.

SONY
Initial Setup
Auto Program: [CH+] Exit: [CH–]
First please connect cable/antenna

2 Press $\underbrace{4}$ on the remote control or on the TV front panel to start Auto Program, or press to exit.

🖄 The Initial Setup screen appears each time you turn on the TV until you perform Auto Program.

To perform Auto Program again

- 1 Press \bigcirc^{MENU} .
- 2 Press ⇔ to highlight Channel Menu.
- 3 Press \clubsuit to highlight Cable. Press to select.
- Press ☆ or ∜ to highlight On or Off according to how you connected your TV. Press 👁 to 4 select.
- 5 Press \triangledown to highlight Auto Program. Press to search for channels.
- 6 After Auto Program finishes, press \bigcirc^{MENU} to exit.

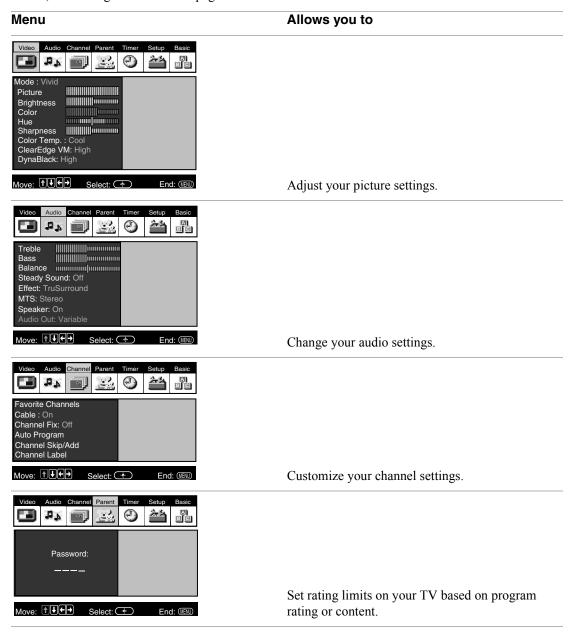
To reset the TV to factory settings

- 1 Turn the TV on.
- Hold down $\stackrel{\text{RESET}}{\frown}$ on the remote control. 2
- 3 Press and release the POWER button on the TV front panel. The TV will turn itself off, then back on.
- Release \bigcap^{RESET} . 4

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Quick Start to the Menus

The following settings are available in your on-screen menus. For more details on how to use the menus, see "Using the Menus" on page 29.



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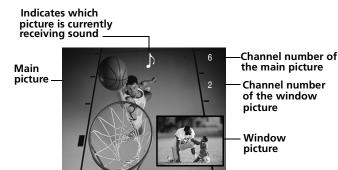
Using Basic Functions

Menu	Allows you to
Video Audio Channel Parent Timer Setup Basic Image: Im	
Timer 1 : Off Timer 2 : Off Current Time	
Move: TIT Select: (F) End: (IEN)	Set the clock on your TV and program scheduled viewing using Timer 1 and Timer 2.
Video Audio Channel Parent Timer Setup Basic Image: Setup Image:	
Caption Vision: Off Video Label Tilt Correction: 0 Language: English 16:9 Enhanced: Auto Demo	Select closed captioning options, label video inputs, adjust tilt correction, enhance your DVD picture resolution (16:9 Enhanced), select menu
Move: TUD Select: (+) End: (MEND)	language, or run a demo of the menus.
Video Audio Channel Parent Timer Setup Basic	
Press 🔶 to enter Basic Menu	
Move: T. Select: T End: (UEN)	
Basic Menu Picture Caption Vision: Off Effect: TruSurround Advanced Menu Picture white level	
Move: 1 Select: 🔶 End: WEW	Access the most commonly used menu settings.

Using Picture in Picture (PIP)

The Picture-in-Picture (PIP) feature allows you to view two programs simultaneously, one in the full size "main" picture and one in a small "window" picture.

Displaying Picture in Picture



To use PIP

- **1** Press the TV button to control PIP with the yellow buttons. Tune your TV to a channel that you know is currently airing programming.
- **2** Press \bigcirc to display the window picture.
- **3** Use the yellow PIP (CH +/-) buttons to change the channel in the PIP window picture.

To check your PIP

- Press the TV button to control PIP with the yellow buttons. Tune your TV to a channel, which you know is currently airing programming.
- **2** Press $\textcircled{PP}{ }$ to turn PIP on, then press $\textcircled{SWAP}{ }$. The channel from the main window should now appear in the window picture.
- **3** Use the (CH +/-) buttons on the bottom of your remote control to select the same channel in the main picture.
- **4** Use the yellow PIP (CH +/-) buttons to change the channel in the PIP window picture.
- 5 Press the yellow PIP button to switch the PIP window to the video inputs for other equipment that is connected to any of the VIDEO IN jacks of your TV (connected equipment to VIDEO 4-5 are not visible in PIP). You should see a different picture in your PIP window for each piece of connected video equipment. Make sure the connected equipment is turned on and working when you perform this test.

If you're having problems with PIP, refer to "Connections that affect your ability to use PIP" on page 28 or see "Troubleshooting" on page 45 for possible solutions.



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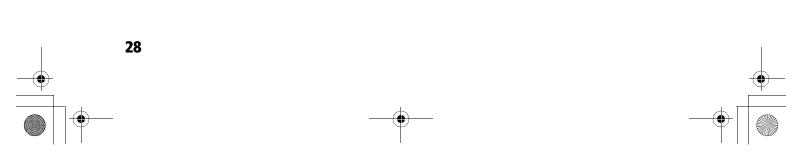
Yellow PIP button	Description
	Press to turn the PIP feature on and off. Press repeatedly to change the window size $(1/9, 1/16, Off)$.
TV/MDEO	Press to cycle through the available video equipment you have connected to the TV in the PIP window picture. The connected equipment in VIDEO 4-5 (Y, Pb, Pr) is not visible in PIP.
	Press to alternate sound between the main picture and the PIP window picture. The sound symbol ♪ appears for three seconds, indicating whether you are hearing the sound from the main or PIP window picture.
TV/VCR + O CH - O	Press to change the channel in the PIP window picture. To change the channel in the main window, use the main (CH $+/-$) buttons at the bottom of the remote control.
	Press to move the location of the window picture to any of the four corners of the screen.
FREEZE	Press to freeze the window picture. Press again to restore the picture. The main window continues to play as usual.
SWAP	Press to switch the main picture with the PIP window picture. Press again to switch back.

To change channels/programs in the PIP window

- **\Box** Use the yellow PIP (CH +/-) button to scroll through TV channels.
- □ Use the yellow TV/VIDEO button to cycle through other video equipment connected to the TV, such as your VCR, DVD player, or satellite receiver.

Connections that affect your ability to use PIP

- □ Any video equipment you have connected to the AUX input cannot be viewed in the PIP window.
- □ If you are viewing all channels through a cable box, the PIP feature will not work. The cable box only unscrambles one signal at a time, so the window picture will be the same as the main picture. See page 15 for more information on how to connect your cable box and use your PIP feature.
- □ Connected equipment in VIDEO 4-5 (Y, P_b, P_r) is not visible in PIP.



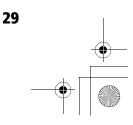
Using the Menus

This section shows the options available for setting up and adjusting the TV.

How to Access Menus

To Access Menus

- **1** Press $\stackrel{\text{MENU}}{\longrightarrow}$ to display the on-screen menu.
- **2** Use the \Leftrightarrow or \Rightarrow buttons to highlight the desired menu icon. Press \bigcirc to select it.
- **3** Use the ☆ or ∜ buttons to scroll up and down through the features.
- **4** Follow the instructions on the screen.
- **5** For instructions on using a specific menu, see the page in this section that talks about that menu.
- **6** Press \bigcirc^{MENU} to exit the menu.
- Press $\stackrel{\text{MENU}}{\bigcirc}$ once to display the on-screen menu, and press again to return to normal viewing. If no buttons are pressed, the menu closes automatically after about 90 seconds.



Using the Video 🛅 Menu

To access the Video menu, use the following steps:

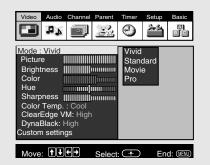
To Display

4

To Select







Press \clubsuit to highlight an option; then press \clubsuit .

Mode	Use the \triangle or \heartsuit buttons to highlight one of the following options, then press $$				
Customized	to select it.	to select it.			
picture viewing	Vivid:	Select for enhanced picture contrast and sharpness.			
	Standard:	Standard: Select for a standard picture.			
	Movie:	Select for a finely detailed picture.			
	Pro:	Select for natural picture and sharpness.			
		· ·			

Press Press	on the remote control for direct access to the picture modes (Vivid, Standard, Movie, Pro).		
Picture	Press ⇔ to decrease the contrast. Press ⇔ to increase the contrast.		
Brightness	Press ⇔ to darken the picture. Press ⇔ to brighten the picture.		
Color	Press ⇔ to decrease color saturation. Press ⇔ to increase color saturation.		
Hue	Press \Leftrightarrow to increase the red tones. Press \Rightarrow to increase the green tones.		
Sharpness	Press ⇐ to soften the picture. Press ⇔ to sharpen the picture.		
Color Temp. <i>White tint</i> <i>adjustment</i>	Use the ☆ or ♥ buttons to highlight one of the following options, then press ↔ to select it. Cool: Gives white colors a blue tint. Neutral: Gives white colors a neutral tint. Warm: Gives white colors a red tint.		
ClearEdge VM	Sharpens picture definition to give objects a crisp, clean edge. Use the \triangle or \bigtriangledown buttons to highlight one of the following options: High , Low , Off , then press $$ to select it.		
DynaBlack	Improves contrast and sharpens image detail. Use the \triangle or ∇ buttons to highlight one of the following options: High , Low , Off , then press \bigcirc to select it.		

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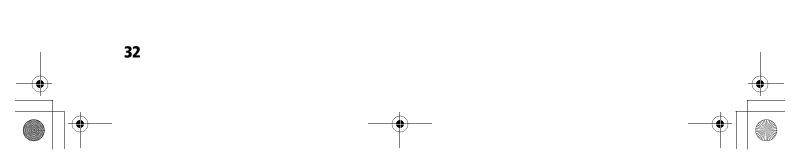
Using the Menus



Treble	Press ⇔ to decrease the higher pitched sounds. Press ⇔ to increase the higher pitched sounds.				
Bass	Press ⇐ to decrease the lower pitched sounds. Press ⇐ to increase the lower pitched sounds.				
Balance	Press ⇔ to empha	Press ⇔ to emphasize the left speaker. Press ⇔ to emphasize the right speaker.			
Steady Sound	Use the \triangle or \heartsuit buttons to highlight one of the following options, then press $$ to select it.				
	On: Off:	Select to stabilize the volume when changing the channels. Select to turn Steady Sound Off.			
Effect	Use the ☆ or ♥ I to select it. Simulated:	buttons to highlight one of the following options, then press (F) Simulates theater quality sound for mono programs.			
	WOW:	Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is activated to further enhance the audio performance.			
	TruSurround:	Produces a dynamic three-dimensional sound for stereo audio signals.			
🖉 Press 🙆 to	Off: Provides normal stereo or mono reception. o directly select Effect settings (Simulated, WOW, TruSurround, Off).				
MTS Multi-Channel TV Sound	Use the ☆ or ∜ buttons to highlight one of the following options, then press ↔ to select it. Stereo: Select when viewing a broadcast in stereo. Auto SAP: Select to have the TV automatically switch to a Second Audio Program (SAP) when a signal is received. Mono: Select to reduce noise in areas of poor reception.				
Press MTS/SAP		/ITS settings (Stereo, Auto SAP, Mono).			
If your TV is set to Auto SAP, some programs may be muted or distorted. If your TV does not output sound, change your Audio MTS setting to Stereo or Mono.					

Speaker <i>Custom</i>	Use the \triangle or \heartsuit buttons to highlight one of the following options, then pr to select it.		
selection of audio output	On:	Select to listen to the sound from the TV speakers with or without a separate stereo system.	
source	Off:	Select to turn off the TV speakers and listen to the TV's sound only through external audio system speakers.	
Audio Out Use to control	Use the 谷 o to select it.	r \checkmark buttons to highlight one of the following options, then press \bigcirc	
the TV's volume through a stereo	Variable: Fixed:	Adjust the volume through your TV. Adjust the volume through a connected stereo.	

🖄 You can only set Audio Out settings when you have set Speaker to Off.



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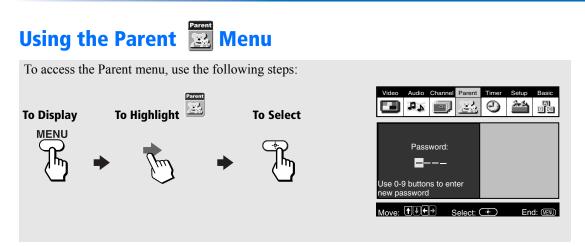
Using the Menus

To access the C	Channel menu, u	se the following steps:	
To Display	To Highlight	To Select	Video Aucio Channel Parent Timer Setup Basic
	J.		Favorite Channels Program Cable : On Channel Fix: Off Auto Program Channel Skip/Add Channel Label Program favorite
Press ♥ to high	nlight an option;	then press (*).	channels Move: 100 Select: - End: (IEII)
Favorite			the position (1-8) where you want to set a
Channels Quick access to favorite	2 Use the		hannel you want to add to your favorite
channels		✤ to select the channel. The	TV will automatically change to the
		l channel. to return to the Channel me	nu or press $\stackrel{\text{MENU}}{\frown}$ to exit.
	4 Press ⇐	to return to the Channel me	nu or press to exit. Press ☆ or ऺ to move the cursor to the
	4 Press ⇐ orite Channels, ∉ annel number ar	to return to the Channel meters exit all menus and press $$.	
desired ch	4 Press < orite Channels, e annel number ar Use the ☆ o	a to return to the Channel mer exit all menus and press ↔. I nd press ↔. r ♣ buttons to highlight one c	Press \triangle or \heartsuit to move the cursor to the of the following options, then press $$ to cable channels with a CATV cable.
desired ch Cable After char	4 Press < orite Channels, e annel number ar Use the ☆ o select it. On: Off:	 to return to the Channel merezit all menus and press . nd press . r ♦ buttons to highlight one of Select if you are receiving a TV settings, you will need to performed.	Press \triangle or \heartsuit to move the cursor to the of the following options, then press $$ to cable channels with a CATV cable.
desired ch Cable After char Program a	4 Press ↔ orite Channels, e annel number ar Use the ☆ o select it. On: Off: nging your cable again" on page 2	 to return to the Channel meters exit all menus and press →. ind press →. in buttons to highlight one of Select if you are receiving a TV settings, you will need to performed. 	Press \triangle or \heartsuit to move the cursor to the of the following options, then press $$ to cable channels with a CATV cable. V antenna.
desired ch Cable After char Program a	4 Press < orite Channels, e annel number ar Use the ☆ o select it. On: Off: nging your cable gain″ on page 2 Use the ☆ o	 to return to the Channel meters exit all menus and press →. ind press →. in buttons to highlight one of Select if you are receiving a TV settings, you will need to performed. 	Press \triangle or \bigtriangledown to move the cursor to the of the following options, then press $$ to cable channels with a CATV cable. V antenna.
desired ch Cable	4 Press < orite Channels, e annel number ar Use the ☆ o select it. On: Off: nging your cable igain" on page 2 Use the ☆ o to select it.	 to return to the Channel merezet all menus and press . and press . buttons to highlight one of Select if you are receiving a TV settings, you will need to perform the settings, you will need to perform the settings. and buttons to highlight one of the settings is not set. Channel Fix is not set. Select when you want to co box or VCR. Select the approximation of the setting of the setting of the set of the se	Press \triangle or \bigtriangledown to move the cursor to the of the following options, then press $$ to cable channels with a CATV cable. V antenna.
desired ch Cable After char Program a	4 Press < orite Channels, e annel number ar Use the ☆ o select it. On: Off: nging your cable igain" on page 2 Use the ☆ o to select it. Off:	 to return to the Channel meteric all menus and press . and press . buttons to highlight one of Select if you are receiving a TV settings, you will need to perfect the settings. and buttons to highlight one of Select when you want to co box or VCR. Select the app the cable box's or VCR's results and the setting instead of Select this setting instead of the set in the setting instead of the set in the set	Press ☆ or ♥ to move the cursor to the of the following options, then press ↔ to cable channels with a CATV cable. ✓ antenna. Form Auto Program. See "To perform Auto of the following options, then press ↔ ntrol all channel selection through a cable propriate channel (usually 3 or 4) and use

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Auto Program	Perform Auto Program whenever setting up your TV.			
	Auto Program will search for available channels and program receivable channels			
Channel	Use this feature after you run Auto Program to skip unwanted channels or add new ones.			
Skip/Add				
	1 Use the \triangle or $\sqrt[n]{}$ buttons to highlight the position of the desired channel, then press \bigcirc .			
	2 Use the \triangle or \heartsuit buttons to highlight Skip or Add , then press $$.			
	3 Press \Leftrightarrow to return to the Channel menu or press $\stackrel{\text{MENU}}{\frown}$ to exit.			
	or CH - to skip over channels that have been skipped. You can still use the $\textcircled{0}$ - $\textcircled{9}$ buttons une to skipped channels.			
Channel Label	1 Press ↔, then use the ☆ or ♡ buttons until you reach the desired channel number.			
Label up to 40 channels with	2 Press $$ to activate the channel.			
their call letters	B Press \mathcal{D} to highlight Label , then press $$. Use the \mathcal{D} or \mathcal{D} buttons to display			
	the first call letter or number of the label. Press $$ to select. Repeat this process until you finish selecting all the call letters.			
	4 When finished, press ⊕ to activate.			
	5 Press \Leftrightarrow to return to the Channel menu or press $\stackrel{\text{MENU}}{\frown}$ to exit.			
	E D rage Δ to return to the Channel many or proof to exit			

34



The Parental Control feature helps parents monitor what their children watch on television.

To use the Parent Menu

When you select the Parent menu, you are prompted to set a 4-digit password. You cannot access the Parent menu settings without this password.

- **1** Use the **0**-**9** buttons to enter a 4-digit password.
- **2** Confirm your password by entering it again.
- Keep this manual in a safe place. You need your password for any future access to the Parent menu. If you forget your password, see page 45.



Parental Control

Setting the Rating

You can change the Rating by selecting one of the Parental Lock options.

Video	Audio	Channel	Parent	e C)	Setup	Basic E
Change	Parental Lock: Off Change Password Country: U.S.A. Off Youth Young Adult Custom						
Press 🛧 to change settings							
Move: 1 € € Select: (*) End: (MERU)							

1 Press \checkmark to highlight **Parental Lock;** then press $\textcircled{\bullet}$.

If you are not familiar with Parental Guideline rating system, use one of the following preset categories to simplify the rating selection: Child, Youth, Young Adult.

2 Use the \triangle or \heartsuit to highlight the desired rating and press .

Rating	TV will allow a maximum rating of			
Off	No rating limit			
Child	TV-Y, TV-G, G (U.S.), G, C (Canada)			
Youth	TV-PG, PG (U.S.), 8 ans + (Canada)			
Young Adult	TV-14, PG-13 (U.S.), 14+ (Canada)			
Custom	Select to set more restrictive ratings (see next section)			

Changing your Password

- **1** Use the \triangle or \heartsuit buttons to highlight **Change Password** and press $\textcircled{$.
- **2** Follow steps 1 and 2 for "Using the Parent Menu" on page 35.

Select a Country

Select U.S.A. to use US ratings (see pages 38-39) or select Canada to use Canadian ratings (see page 40). If you select a Country (U.S.A. or Canada) that is not where you live, the rating you select will not be activated.

- **1** Press \oint to highlight **Country**, then press $\textcircled{\bullet}$.
- **2** Use the \triangle or \bigtriangledown to highlight the desired country and press .



Information for Parents

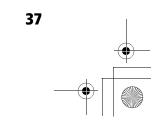
To view a program that exceeds the TV rating

- $\square Press \stackrel{\text{ENTER}}{\bigcirc}, \text{ then use the } \textcircled{0-9} \text{ buttons to enter your password.}$
- Entering your password to view a blocked program will temporarily turn **Parental Lock** to Off. To reactivate your Lock settings, turn the TV off then back on; the TV will return to the settings that you have selected.

Using the Custom Menu

Follow the instructions on the screen to make your custom settings. Select the country desired for your TV's rating limit. See page 38 for U.S. models and page 40 for Canadian models for more information.

nce you have blocked a rating or content, all higher ratings or content will be automatically blocked.



United States: Selecting Custom Rating Options

For the United States, the Custom Rating menu includes the following options: Movie Rating, TV Rating and Unrated. (For Canada, see page 40.)

Movie Rating

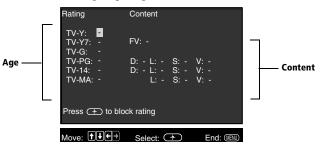
This system defines the rating levels of movies shown in theaters and on prime cable channels.

Rating	Defined as	Cu
G	General audience	T
PG	Parental guidance suggested	- u
PG-13	Parents strongly cautioned	
R	Restricted	
NC-17	No one 17 and under admitted	Pi ra
Х	Adult audience only	
		Mo



TV Rating

The TV rating is divided into two groups: age-based and content-based.



Age	Defined as	Content	Defined as
TV-Y	All children	FV	Fantasy violence
TV-Y7	Directed to older children	D	Suggestive dialogue
TV-G	General audience	L	Strong language
TV-PG	Parental guidance suggested	S	Sexual situations
TV-14	Parents strongly cautioned	V	Violence
TV-MA	Mature audience only		

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain intense violence.



Allow Block

End: (MENU)

allow unrated

Select:

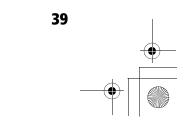
Unrated

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You have the option of blocking TV programs or movies that are not rated.

Allow	Allows all unrated programs	Custom Rating Movie Rating
Block	Blocks all unrated programs	TV Rating Unrated: Allow
		—
		Block or allow une programs
		Move: 1++

🖄 If you choose to block unrated TV programs, please be aware that the following programs may be blocked: emergency broadcasts, political programs, pro, news, public service announcements, religious programs, and weather.



Canada: Selecting Custom Rating Options

For Canada, the Custom Rating menu includes the following options: English Rating, French Rating, and U.S.A. Rating.

English Rating

These ratings are for Canadian programs that are broadcast in English.

Rating	Defined as	Custom Rating - C
С	Children	French Rating - C8+ U.S.A. Rating - G
C8+	Children 8 years and older	- PG - 14+
G	General programming	- 18+
PG	Parental guidance	
14+	Viewers 14 and older	Press 🔶 to set English rating
18+	Adult programming	Move: 🚺 🗲 Select: 🔶 End: 🛲

French Rating

These ratings are for Canadian programs that are broadcast in French.

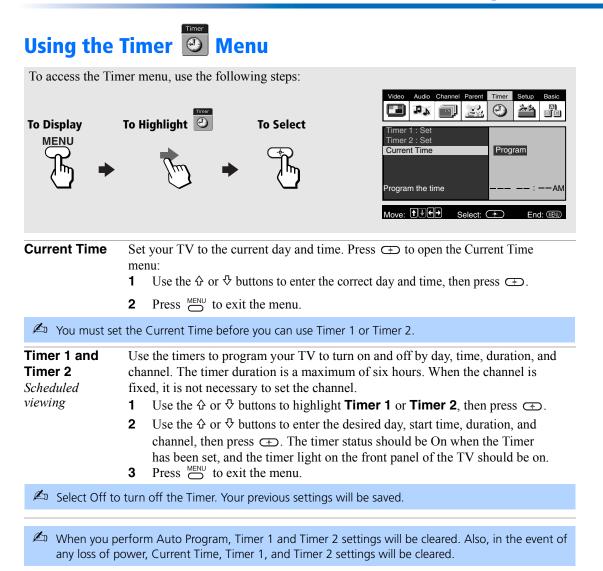
Rating	Defined as	Custom Rating
G	General	English Rating French Rating
8 ans+	Not recommended for younger children	U.S.A. Rating - 8 ans+ - 13 ans+ - 16 ans+ - 18 ans+
13 ans+	Not recommended for children under age 13	
16 ans+	Not recommended for ages under 16	Press to set French rating Move: TIP Select: End: @RU
18 ans+	This program is restricted to adults	

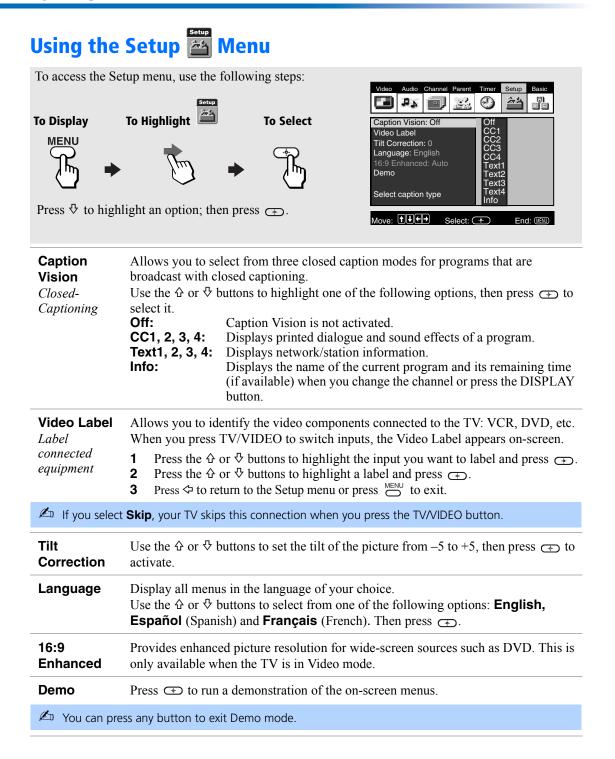
U.S.A. Rating

For programs from the United States, see "TV Rating" on page 38.



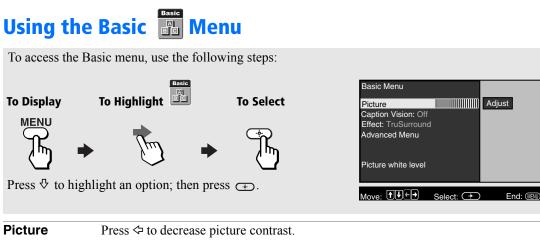
Using the Menus







Using the Menus



	riess vie decrease pretare contrast.	
Picture contrast	Press ⇔ to increase picture contrast.	

Caption Vision Closed- Captioning	The Basic menu	displays the current Caption Vision setting. By default, this is Off.			
Effect	Use the \triangle or \bigtriangledown buttons to highlight one of the following options, then press $$ to select it.				
	Simulated:	Simulates theater quality sound for mono programs.			
	WOW:	Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is activated to further enhance the audio performance.			
	TruSurround:	Produces a dynamic three-dimensional sound for stereo audio signals.			
	Off:	Normal stereo or mono reception.			
Advanced Menu	Press 💮 to retu	Irn to the advanced menus.			

If you use the button to close the Basic menu, only the Basic menu appears when you press again. To access the other menus, press v to highlight Advanced Menu, then press v.

Other Information

Troubleshooting

If you have a problem with your TV, try the suggestions below. If the problem persists, see "Contacting Sony" at the end of this section.

General

Problem	Ро	ssible Remedies
I want to reset the TV to the factory settings		Turn on the TV. While holding down the RESET button on the remote control, press POWER button on the TV front panel. The TV will turn itself off, then back on again. Release the RESET button.
I cannot access other menus when I am in the Basic menu		If you use the $\overset{\text{MENU}}{\longrightarrow}$ to close the Basic menu, only the Basic menu appears when you press $\overset{\text{MENU}}{\longrightarrow}$ again. To access the other menus, select the advanced menu option (page 43).
The TV is dirty		Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.
I lost the parental control password		In the password screen, enter the following master password: 4357. After using the master password, you must create a new password. You cannot use the master to unlock currently blocked channels.
There is a black box on the screen		You have selected a text option in the Setup menu (page 42) and no text is available. To turn off this feature, select Off in the Caption Vision option. If you were trying to select closed captioning, select CC1-4 instead of Text1-4.
There was a blackout or power outage, and now the TV won't turn on and the timer LED is flashing		Press the POWER button on your remote control or on the TV front panel.
Digital cable box does not work		Be sure that you have not connected the digital cable box to the TV's TO CONVERTER jack. This jack is not compatible with digital cable boxes. If you are connecting a VCR and digital cable box using a splitter, as described in pages 15-16, you must use a special bi-directional
		splitter that is designed to work with your digital cable box.

Remote Control

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Problem	Possible Remedies		
I cannot operate the	Press TV (FUNCTION) when operating your TV.		
remote control	Check the orientation of the batteries.		
	□ Batteries could be weak. Replace them (page 2).		
	□ Move the TV three to four feet away from fluorescent lights.		
I cannot change channels with the remote control	□ Make sure you have not inadvertently switched your TV from the channel 3 or 4 setting if you are using another device to change channels.		
	□ If you are using another device to control channels, be sure that you have pressed the FUNCTION button for that device. For example, if you are using your VCR to control channels, be sure to press the VCR/DVD FUNCTION button (page 4).		
I lost the remote control	 You can use the front panel controls to access your menus, change channels, adjust the volume, or change video inputs (page 2). Contact your nearest Sony Dealer to order a replacement, please call our Sony Direct Accessory and Part Center at 1-800-488-7669 (U.S. residents only). 		

Programming The Remote Control

Problem	Possible Remedies			
More than one code is listed	Try entering them one by one until you come to the correct code for your component.			
I entered the wrong code number	□ If you enter a new code number, the code number you previously entered at that setting is erased.			
I cannot operate a component with the remote control	Use the component's own remote control.			
When I changed the batteries, the code numbers changed back to the factory settings	You must reprogram the remote control.			

Video

Problem	Possible Remedies		
No picture, no		Make sure the power cord is plugged in.	
sound		If a red light is flashing on the front of your TV for more than a few minutes, disconnect and reconnect the power cord. If the problem continues, call your local service center.	
		Check the TV/VIDEO setting: when watching TV, set it to TV; when watching video equipment, set it to VIDEO 1, 2, 3, 4 or 5 (page 4).	
		Make sure you have inserted the batteries correctly into the remote control (page 2).	
		Try another channel to rule out station trouble.	
Poor or no picture,		Adjust the Picture setting in the Video menu (page 30).	
good sound		Adjust the Brightness setting in the Video menu (page 30).	
		Check the antenna and/or cable connections (page 11).	
No color		Adjust the Color setting in the Video menu (page 30).	
Only snow appears		Check the Cable setting in the Channel menu (page 33).	
on the screen		Check the antenna and/or cable connections (page 11).	
		Make sure the channel selected is currently broadcasting.	
Dotted lines or		Adjust the antenna.	
stripes		Move the TV away from other electronic equipment. Some	
		electronic equipment creates electrical noise, which can interfere with TV reception.	
Double images or ghosts		Check your outdoor antenna or call your cable service.	

Audio

Problem	Possible Remedies		
Good picture, no		Press othat Muting disappears from the screen (page 3).	
sound		Check your Audio settings. Your TV may be set to Auto SAP in	
		the MTS feature (page 31).	
		Make sure the speaker option is set to On in the Audio Menu.	
		Press $\stackrel{\scriptscriptstyle{\scriptstyle{\bigvee L}}}{=}$ to adjust your TV's volume.	

Channels

9

Problem		Possible Remedies		
l cannot receive higher number channels (UHF) when using an antenna		Make sure Cable is set to Off in the Channel menu (page 33). Perform Auto Program to add channels that are not presently in the memory (page 23).		
Cable stations don't seem to work		Make sure Cable is set to On in the Channel menu (page 33). Perform Auto Program to add channels that are not presently in the memory (page 23).		
l cannot get anything but TV		Be sure that you did not set the video in the Setup menu (page 42) to skip your video inputs. If a video input has been set to Skip , it will be skipped when you press the TV/Video buttons for either the main or PIP pictures.		

Picture in Picture (PIP)

Problem	Possible Remedies	
The remote control doesn't work in PIP mode		Press the TV FUNCTION button. You may have inadvertently pressed the VCR/DVD FUNCTION button, which changes the PIP buttons to VCR mode (page 26).
There is no window picture or it is just static		Be sure your PIP window picture is set to a video source/channel that has a program airing. You may be tuned to a video input with nothing connected to it. Try cycling through your video inputs using the yellow PIP TV/ VIDEO button with the red dot (page 26).
I get the same program in the window picture as in the main picture		Both may be set to the same channel. Try changing channels in either the main picture or the window picture (page 26). Your TV may be set up to select all your channels through a cable box. The cable box will only unscramble one signal at a time, so you cannot use the PIP feature. If possible, run a direct cable to the VHF/UHF jack on your TV. This will only work if your cable system provides an unscrambled signal (page 13).
l cannot see VIDEO 4-5 (Y, P _b , P _r) in PIP		Connected equipment in VIDEO 4-5 (Y, P_b , P_r) is not visible in PIP.

Contacting Sony

Before calling our Customer Information Services Center, reset the TV to factory settings (see page 23). Please have your TV serial number ready. The number is located on the rear of your TV and on the front cover of this manual.

Our Customer Information Services Center phone number is 1-800-222-SONY (7669) (US residents only) or (416) 499-SONY (7669) (Canadian residents only).



Other Information

Specifications

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For all models (except as noted)

Television system	American TV standard/NTSC			
Channel coverage	VHF: 2-13/UHF: 14-69/CATV: 1-125			
Antenna	75-ohm external antenna terminal for VHF/UHF			
Picture tube	FD Trinitron [®] tube			
Power requirements	120V, 60 Hz			
Supplied accessories	Size AA (R6) batteries (2) Remote Control RM-Y181 (1)			
Inputs/outputs	Inputs 1 video, 1 audio (front) Outputs 2 video, 2 audio (rear) 1 AUDIO OUT 2 S VIDEO (1 front, 1 rear) 1 MONITOR OUT 2 RF 2 Y, PB, PR, 2 audio			
Optional accessories	TV Stand: SU-27F1 for KV-27FV310 SU-32F1 for KV-32FV310 SU-36F1 for KV-36FV310			
KV-27FV310				
Screen size	Visible screen size: 679 mm (27 inches) measured diagonally Actual screen size: 736.6 mm (29 inches) measured diagonally			
Speaker output	7.5 W x 2, 15 W subwoofer			
Power consumption	215 W in use 1 W in standby			
Dimensions (W/H/D)	$784 \times 601.5 \times 520 \text{ mm} (30^{7}/_{8} \times 23^{11}/_{16} \times 20^{1}/_{2} \text{ inches})$			
Mass	50.4 kg (111 lbs. 1.7 oz)			
KV-32FV310				
Screen size	Visible screen size: 803 mm (32 inches) measured diagonally Actual screen size: 863.6 mm (34 inches) measured diagonally			
Speaker output	7.5 W x 2, 15 W subwoofer			
Power consumption	235 W in use 1 W in standby			
Dimensions (W/H/D)	898 x 682 x 584 mm (35 ³ / ₈ x 26 ⁷ / ₈ x 23 inches)			
Mass	79.1 kg (174.4 lbs)			
KV-36FV310				
Screen size	Visible screen size: 911mm (36 inches) measured diagonally Actual screen size: 965.2 mm (38 inches) measured diagonally			
Speaker output	7.5 W x 2, 15 W subwoofer			
Power consumption	235 W in use 1 W in standby			
Dimensions (W/H/D)	1020 x 760 x 640 mm (40 ¹ /4 x 30 x 25 ¹ /4 inches)			
Mass	103.4 kg (228 lbs)			

Design and specifications are subject to change without notice.

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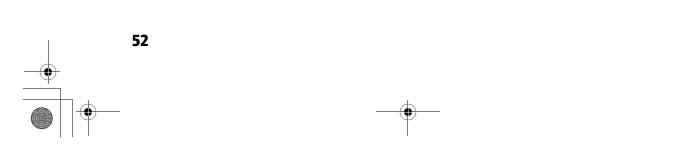
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SONY

LIMITED WARRANTY

This warranty is applicable to U.S. residents only. If you are a Canadian resident, see the separately enclosed warranty for your product.

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship, subject to any conditions set forth as follows:

- 1. LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
- 2. PARTS: In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year (color picture tube- two (2) years). After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.
- 3. ACCESSORIES: Parts and labor for all accessories are for one (1) year.

In-home diagnostic warranty service is provided during the initial 90 day period for 19" (measured diagonally), or larger screen size through a Sony authorized service facility.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree or protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allows limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

Sony Customer Information Service Center

1-(800)-222-7669

Or visit the Sony Web Site: www.sony.com

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY(7669)

Sony Corporation

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http://tv.somanuals.com