

Operating Instructions

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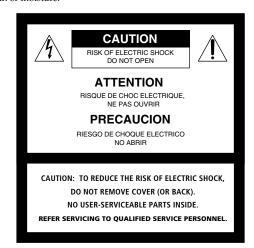




4-094-064-**21**

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

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 program 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 result of misuse.

Note on Caption Vision

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

Note on Cleaning the TV

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.

Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code (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 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.

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:

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 authority

Reorient or relocate the receiving antennas.

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.
- The AC power cord is attached to the rear of the TV with hooks. Do not attempt to remove the cord from these hooks. Doing so could cause damage to the TV.



to operate this equipment.

As an Energy Star® Partner, Sony has determined that this product or product models 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 provided on the front of this instruction manual and at the rear of the TV. Refer to them whenever you call upon your Sony dealer regarding this product.

Trademark Information

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Wega, FD Trinitron, Steady Sound, Digital Reality Creation, Caption Vision, CineMotion, Memory Stick, and Twin View are registered trademarks of Sony Corporation. ClearEdge VM and HD Detailer are trademarks of Sony Corporation.

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 should still fail 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.

Memory Stick

To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.

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 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.



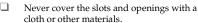


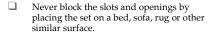
Disconnect all cables and cords from the set before attempting to move the set.

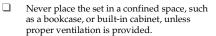
Do not allow children or pets to climb up onto, or push against, the set. The set may fall, causing serious injury.

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.







 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

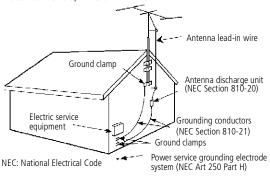
Outdoor Antenna Grounding

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 provide 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 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

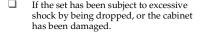
Damage Requiring Service

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



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Introducing the FD Trinitron Wega

Overview

This chapter describes the contents of the package in which the TV is shipped and provides an overview of the features of your Wega TV.

Presenting the FD Trinitron Wega

The FD Trinitron Wega (pronounced VAY-GAH) is characterized by outstanding contrast, uncompromising accuracy, and corner-to-corner detail.

You will recognize the superiority of Wega technology almost immediately. The first thing you will probably notice is minimal glare from the flat picture tube. This flat-screen technology improves picture detail without distortion, unlike conventional curved screens. The FD Trinitron delivers outstanding image detail not only at the screen center, but also at the corners — so you can enjoy a bright, clear picture from any location in a room.

Package Contents

Along with your new Trinitron TV, the packing box contains a remote control and two AA (R6) batteries. These items are all you need to set up and use the TV.

Features

Some of the features that you will enjoy with your new TV include:

- □ **Wide Screen Mode:** Watch conventional 4:3 aspect ratio broadcasts in wide screen (16:9) mode.
- □ **Super Fine Pitch CRT**: Created especially for displaying high resolution pictures, the new Super Fine Pitch CRT along with a new electron gun and high intensity luminescent phosphor improves image resolution, providing the highest picture quality reproduction from corner to corner.
- □ DRC[®] (Digital Reality Creation) Multifunction V1: Unlike conventional line doublers, the DRC Multifunction feature replaces the signal's NTSC waveform with the near-HD equivalent, while doubling the number of vertical and horizontal lines. This results in four times the density for quality sources, such as DVD, satellite, and digital camcorders. The Video Menu allows you to select interlaced, progressive, or CineMotion[™]

output. The DRC Palette option lets you customize the level of detail (Reality) and smoothness (Clarity) to create up to three custom palettes.
Scrolling Index: Lets you select programs from a series of preview windows that scroll along the right side of the screen.
Twin View [™] : Using the Multi-Image Driver (MIDX), Twin View allows you to watch two programs side by side, with the ability to zoom in one picture. You can watch pictures from two different sources (1080i, 720p, 480p, and 480i) simultaneously. (Only the left Twin View window can display 1080i, 720p, and 480p sources.)
Favorite Channels : Allows you to preview and select from eight of your favorite channels.
ClearEdge VM [™] Velocity Modulation: Sharpens picture definition by enhancing vertical lines.
Steady Sound [®] : Equalizes volume levels so there is consistent output between programs and commercials.
Memory Stick Viewer: Lets you watch digital photo (JPEG) and movie (MPEG1) files that are stored on Memory Stick media.
Component Video Inputs: Offers the best video quality for DVD (480p, 480i), and digital set-top box (HD1080i, 720p) connections.
HD Detailer [™] : Wideband video amplifier has a high bandwidth frequency rating, which allows it to send more video information to the screen, resulting in finer picture quality, especially for HD sources.
CineMotion [™] : Reverse 3-2 pulldown processing provides optimal picture quality for film-based sources (media originally shot in 24 frames-per-second format).
Parental Control: V-Chip technology allows parents to block unsuitable programming from younger viewers.
Digital Visual Interface (DVI): Can accommodate a copyprotected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-

HDTV input terminal is compliant with the EIA-861 standard

and is not intended for use with personal computers.

16:9 is also referred to as widescreen format.

^{*}High-bandwidth Digital Content Protection

Setting Up the TV

Overview

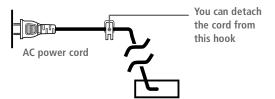
This chapter includes illustrated instructions for setting up your TV.

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About the AC Power Cord

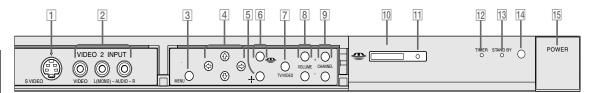
The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug upward to remove it from the hook. Once removed, the AC power plug should automatically disengage from its stored location.

Do not plug in the AC power cord until you have made all other connections.



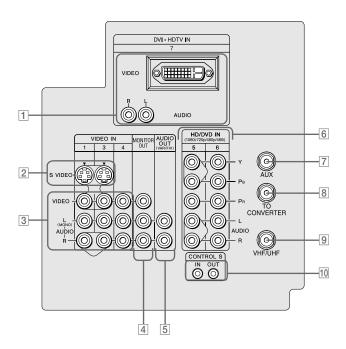
TV Controls and Connectors

Front Panel



14		Book folia
Item		Description
1	S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (2).
2	VIDEO/L(MONO)-AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.
3	MENU	Press to display the Menu. Press again to exit from the Menu. For details, see "Using the Menus" on page 77.
4	4+++	Press ♣♦ ♦ ♦ to move the TV's on-screen cursor.
5	- -	Press to select an item in the TV's menu.
6	*	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 61.
7	TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
8	-VOLUME +	Press to adjust the volume.
9	-CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
10	-	Memory Stick insertion slot. For details, see "Inserting and Removing a Memory Stick" on page 63.
11	Memory Stick LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
12	TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 91.
13	STAND BY LED	Blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service (see "Contacting Sony" on page 95).
14	Infrared Receiver (IR)	Receives IR signals from the TV's remote control.
15	POWER	Press to turn on and off the TV.

Rear Panel



Jack	Description
1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.
2 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video ($\boxed{3}$) or VHF/UHF ($\boxed{9}$) connections.
3 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. This video connection provides better picture quality than the VHF/UHF (9) connection.
4 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5 or 6).
5 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
6 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides better picture quality than 2, 3, or 9).
7 AUX	Auxiliary RF input that connects to your antenna, CATV cable, or cable box output jack. This is convenient if you are using two VHF/UHF sources (antenna, CATV cable, or cable box). For details, see pages 18 to 21.
8 TO CONVERTER	Connects to your cable box input jack. This VHF/UHF output jack lets you set up your TV to switch between scrambled channels (coming through a cable box) and unscrambled cable channels. Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels. For details, see pages 20 to 21.
9 VHF/UHF	Primary RF input that connects to your VHF/UHF antenna or cable.
10 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.

^{*} High-bandwidth Digital Content Protection

Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If Y	f You Are Connecting See Page			
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Cak	ole and Antenna Only No cable box or VCR	18		
Cal	ole Box and Cable Only Cable box unscrambles only some channels (usually premium channels) No VCR	20		
Cak	ole Box Only Cable box unscrambles all channels No VCR	22		

If you are connecting a VCR

□ See the connections described on pages 24 and 26.

Cable or Antenna Only

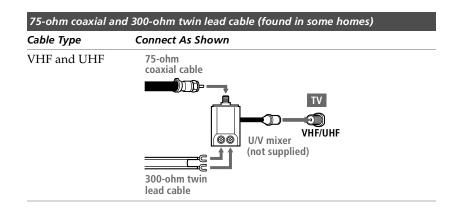
For best results, use one of the following connections if you are connecting a cable or an antenna and you:

- Do not need a cable box to unscramble channels. (If you have a cable box, see pages 20-22.)
- □ Do not intend to connect a VCR. (If you have a VCR, see pages 24 and 26.)

The connection you choose depends on the cable type you have in your home, as described below.

75-ohm coaxial cable (usually found in newer homes)			
Cable Type	Connect As Shown		
VHF Only or combined VHF/UHF or Cable	75-ohm coaxial cable VHF/UHF		

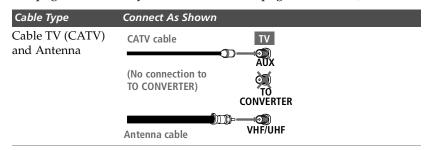
300-ohm twin lead cable (usually found in older homes)	
Cable Type	Connect As Shown
VHF Only or UHF Only or combined VHF/UHF	300-ohm twin lead cable TV WHF/UHF Antenna connector (not supplied)



Cable and Antenna Only

For best results, use this connection if you:

- Have a cable and an antenna.
 - (This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)
- □ Do not have a cable box or VCR. (If you have a cable box, see pages 20 to 22. If you have a VCR, see pages 24 and 26.)



About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you cannot view CATV channels in the right dual picture window.

To Do This	Do This
Switch the TV's input between the cable and antenna	Press ANT to switch back and forth between the TV's VHF/UHF and AUX inputs.
Receive channels using an antenna, instead of the cable	 Press ANT to switch to the AUX input. Set the Cable option to Off. For details, see "Selecting Channel Options" on page 84. Run the Auto Setup program, as described in "Using Auto Program" on page 41.

Cable Box and Cable Only

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

For best results, use this connection if:

- ☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ☐ You do not have a VCR. (If you have a VCR, see pages 24 and 26.)

With this connection you can:

- ☐ Use the TV remote control to change channels coming through the cable box to the TV's AUX input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 47.)
- □ Use the TV remote control to change channels coming directly into the TV's VHF/UHF input. (The TV's tuner provides a better signal than the cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

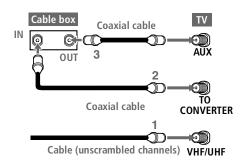
With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV's VHF/UHF input jack.

However, you can use only some of the dual picture features for channels coming through the cable box to the TV's AUX input jack. For example, when you switch the TV's input to AUX — to select the cable box input — the picture displays only in the left window. For example, if you turn on Twin View, you can watch cable channels coming into the VHF/UHF jack in the right window, but you cannot swap the pictures between the left and right windows.

To connect the cable box and cable

- 1 Connect the cable from your cable company to the TV's VHF/UHF jack.
- 2 Use a coaxial cable to connect the TV's TO CONVERTER jack to the cable box's input jack. (The TV's internal converter lets you switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.)
- **3** Use a coaxial cable to connect the cable box's output jack to the TV's AUX jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.

If you have a digital cable box, you cannot use this connection because the TO CONVERTER jack is not compatible with digital cable boxes.



Notes on Using This Connection

Notes on osing this connection	
To Do This	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 84.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (unscrambled channels) and AUX (scrambled) inputs.

Cable Box Only

For best results, use this connection if:

- ☐ Your cable company scrambles all channels, which requires you to use a cable box.
- ☐ You do not have a VCR. (If you have a VCR, see pages 24 and 26.)

With this connection you can:

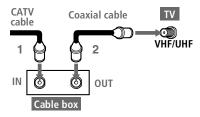
☐ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features.. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 20 instead.

To connect the cable box

- 1 Connect the CATV cable to the cable box's input jack.
- **2** Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.



Notes on Using This Connection

notes on osing this connection	
To Do This	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 84.

Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

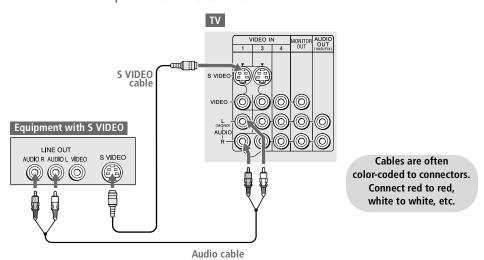
If You Are Connecting	See Page
VCR and Cable	24
VCR and Cable Box	26
Two VCRs for Tape Editing	28
Satellite Receiver	30
Satellite Receiver and VCR	32
DVD Player with Component Video Connectors	34
DVD Player with S VIDEO and Audio Connectors	36
DVI-Equipped Device	37
Camcorder	38
Audio Receiver	39

About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection



VCR and Cable

For best results, use this connection if:

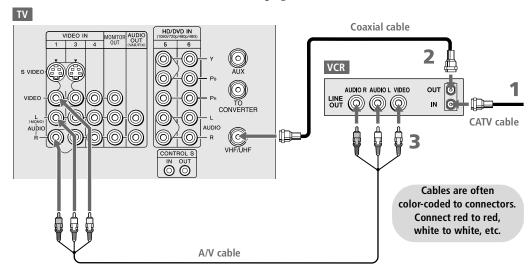
☐ Your cable company does not require you to use a cable box.

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

To connect the VCR and cable

- 1 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
- **3** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.





Notes on Using This Connection

To Do This	Do This
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (VHF/UHF in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the TV remote control to operate the VCR	Open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 58.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

VCR and Cable Box

For best results, use this connection if:

☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

With this connection you can:

- ☐ Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 47.)
- ☐ Use the TV remote control to change channels coming directly into the TV's VHF/UHF jack. (The TV's tuner provides a better signal than the cable box.)
- □ Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.

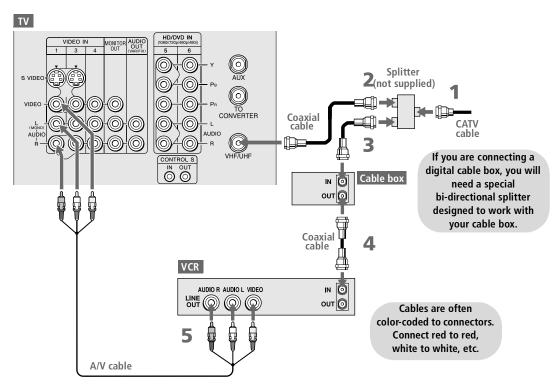
DIGITAL CABLE BOX USERS: If you are connecting a digital cable box, you will need a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.

- □ Three coaxial cables.
- \Box One A/V cable or one S VIDEO cable with audio cables.

To connect the VCR and cable box

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use a coaxial cable to connect one of the splitter's two output jacks to the TV's VHF/UHF jack.
- 3 Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.
- 4 Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.
- 5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.





Notes on Using This Connection	
To Do This	Do This
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (UHF/VHF in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the VCR.
Control specific cable box and VCR functions with the TV remote control	See "Operating a Cable Box" on page 59 and "Operating a VCR" on page 58.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

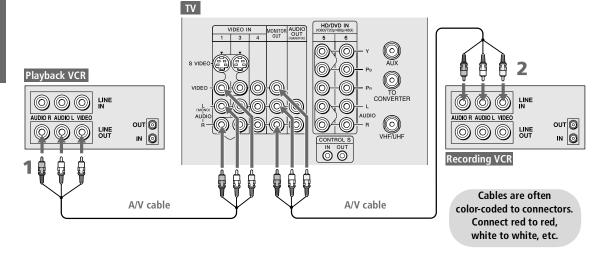
Two VCRs for Tape Editing



Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

To connect two VCRs for tape editing

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.
- 2 Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.



Notes on Using This Connection

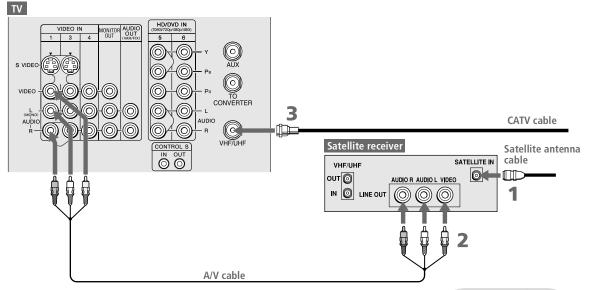
To Do This	Do This
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the TV remote control to operate the VCR(s)	Open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 58.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

Satellite Receiver



To connect a satellite receiver

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
- **3** Connect a CATV cable from your cable or antenna to the TV's VHF/UHF jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

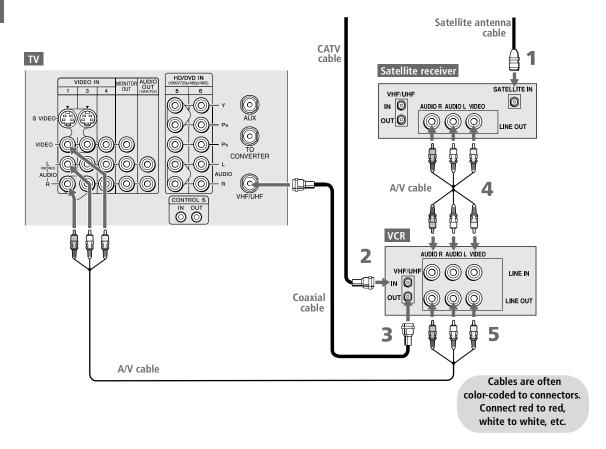
To Do This	Do This
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 58.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

Satellite Receiver and VCR



To connect a satellite receiver and VCR

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 3 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
- 4 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.
- **5** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



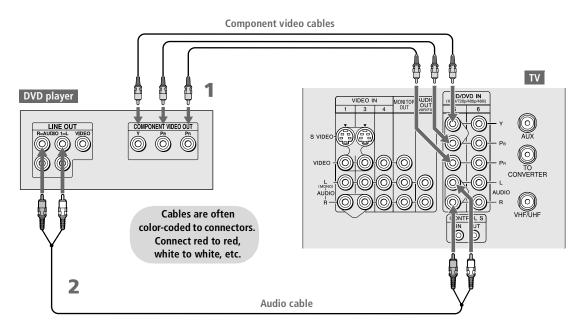
Notes on using This Connection	
To Do This	Do This
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
	The VCR must be turned on and set to the satellite receiver's line input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the VCR.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 58 and "Operating a VCR" on page 58.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

DVD Player with Component Video Connectors

For best results, use this connection if your DVD player has component video (Y, PB, PR) jacks.

To connect a DVD player with component video connectors

- 1 Use three separate component video cables to connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks (VIDEO 5) on the TV.
 - The Y, PB and PR jacks 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.
- 2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.



Notes on Using This Connection

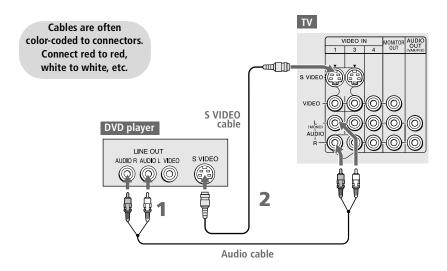
To Do This	Do This
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control	If you have a non-Sony DVD player, you must program the remote control.
to operate the DVD player	See "Programming the Remote Control" on pages 47-48.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

To connect a DVD player with A/V connectors

- 1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.
- 2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



Notes on Using This Connection

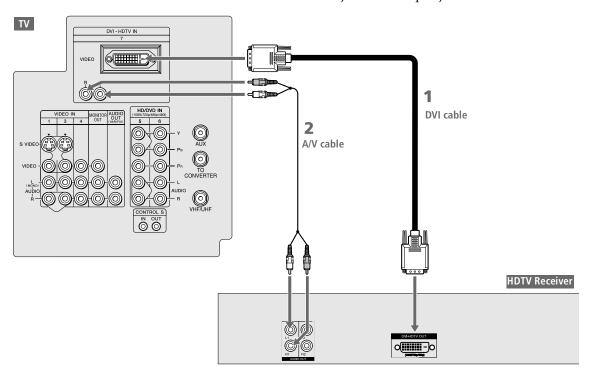
Notes on osing this connection	
To Do This	Do This
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 47-48.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

DVI-Equipped Device

If you have a device, such as an HDTV receiver, that has a DVI-HDTV OUT jack, use the following connection.

To connect a device that has DVI-HDTV OUT:

- 1 Use the DVI cable that came with your device to connect the device's DVI-HDTV OUT jack to the TV's DVI-HDTV IN jack.
- **2** Use an audio cable to connect the device's audio output jacks to the TV's DVI-HDTV IN jack audio input jacks.



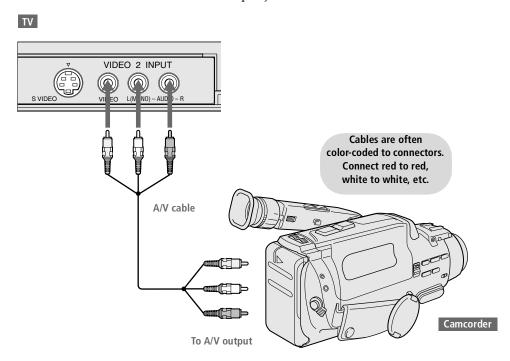
Camcorder



For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

To connect a camcorder

1 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.



If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

Notes on Using This Connection

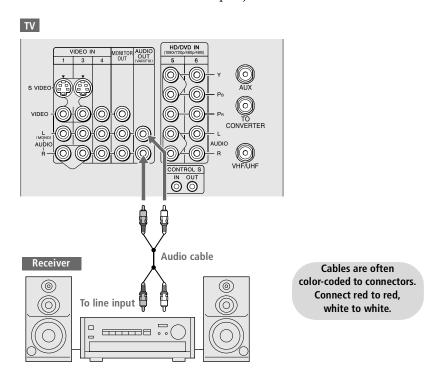
To Do This	Do This
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

To connect an audio system

1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.



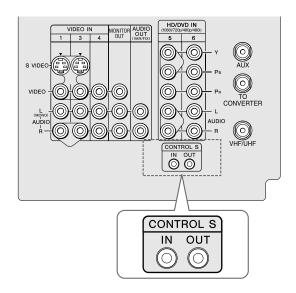
- 2 Using the TV's Audio Menu, set the Speaker option to Off. Then set the Audio Out option to Fixed or Variable, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 80.
- 3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.



Setting Up the Channel List

After you finish connecting your TV, you need to run Auto Setup to set up your channels. The Auto Program screens appear when you turn on your TV for the first time after hooking it up.

Using Auto Program

To exit the Tilt Correction

press the MENU button.

and Vertical Correction screens,

For more details on using

Auto Program, see page 84.

For more details on using Tilt Correction and Vertical

Correction, see pages 89-90.

To run Auto Program the first time you turn on your TV

- 1 Press POWER to turn on the TV. The Initial Setup screen appears.
- Using the joystick on the remote control, move the highlight to the desired language, then press 🕀 to select that language.
- 3 The next screen instructs you to connect your cable/antenna. Check that you've connected your signal source as described on pages 16 to 22.

To start Auto Program, move the joystick to highlight Yes and then press 🕀.

Auto Program automatically creates a list of receivable channels.

When Auto Program is finished, the Tilt Correction screen appears.

- Move the joystick ◆ → to correct any tilt of the picture. You can choose a correction between +7 and -7.
 - When finished, press ①. The Vertical Correction screen appears.
- Move the joystick \uparrow to make a vertical correction to the picture. You can choose a correction between +5 and -5. When finished, press 🕀.

The lowest numbered channel is displayed.

To reset the TV to factory settings

- Press POWER to turn on the TV.
- Hold down RESET on the remote control.
- Press TV POWER on the TV. (The TV will turn itself off, then back on.)
- Release RESET.

Using the Remote Control

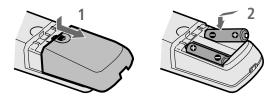
Overview

This chapter describes how to set up, program, and use the TV's remote control.

Торіс	Page
Inserting Batteries	43
Button Descriptions	
Outside Panel	44
Inside Panel	46
Programming the Remote Control	47

Inserting Batteries

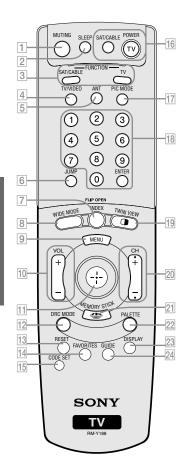
- 1 Remove the battery cover from the remote control.
- 2 Insert two size AA (R6) batteries (supplied) by matching the **⊕** and **⊕** terminals on the batteries to the diagram inside the battery compartment.
- 3 Replace the battery cover.



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, placing it in direct sunlight, near a heater, or where the humidity is high.

Button Descriptions

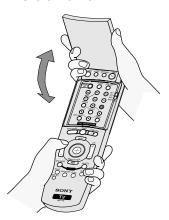
Outside Panel

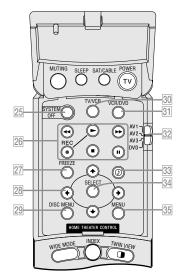


Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL+ to restore the sound.
2 SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. To cancel press until Sleep Off appears. While the Sleep feature is set, press once to display the remaining time.
3 FUNCTION Buttons	The indicator lights up momentarily when pressed to show which equipment the remote control is operating:
	SAT/CABLE: Press to have the remote control operate the satellite receiver or cable box.
	TV: Press to have the remote control operate the TV.
4 TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
5 ANT	Press to switch between the sources connected to the TV's VHF/UHF and AUX inputs.
6 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
7 INDEX	Press to display the Scrolling Index. For details, see page 51.
8 WIDE MODE	Press repeatedly to step through the Wide Mode settings: Wide Zoom, Normal, Full, Zoom. Also available in the Screen menu. For details, see page 82.
9 MENU	Press to display the Menu. Press again to exit from the Menu. For details, see "Using the Menus" on page 77.
10 VOL +/-	Press to adjust the volume.
11	Move the joystick $\spadesuit \clubsuit \spadesuit$ to move the on-screen cursor. To select an item, press the center of the joystick $(\textcircled{+})$.
12 DRC MODE	Press repeatedly to cycle through the available high- resolution picture modes: Interlaced, Progressive, CineMotion. Also available in the Video Menu. For details, see "Selecting Video Options" on pages 78-79.
13 RESET	Press to reset the settings to the factory defaults. See pages 78 and 80. Also used to clear Favorite Channels (see page 56).
14 FAVORITES	Press to display the Favorite Channels list. For details, see page 56.

Bu	tton	Description
	CODE SET	Press to program the remote control to operate non- Sony video equipment. For details, see "Programming the Remote Control" on page 47.
16	POWER Buttons	SAT/CABLE: Press to turn on and off the satellite receiver or cable box.
		TV: Press to turn on and off the TV.
17	PIC MODE	Press repeatedly to cycle through the available video picture modes: Vivid, Standard, Movie, Pro. Also available in the Video Menu. For details, see "Selecting Video Options" on pages 78-79.
18	0 - 9 ENTER	Press 0 - 9 to select a channel; the channel changes after 3 seconds. Press ENTER to change channels immediately.
19	TWIN VIEW	Press to turn on and off Twin View. For details, see pages 53-55.
20	CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either CH button.
21	MEMORY STICK	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 61.
22	PALETTE	Press repeatedly to cycle through the three Custom DRC Palette options. Also available in the Video Menu. For details, see. "Using the Video Menu" on page 78-79.
23	DISPLAY	Press once to display the current channel number, current time, and channel label (if set). Press again to turn Display off.
24	GUIDE	Press to display the program guide of your satellite program provider.

Inside Panel





To access the inside panel, open the outside cover as shown.

Dening the outside cover automatically switches the remote control to operate your VCR or DVD player, depending on the position of the A/V slide switch. For details, see page 47.

Description
Press to turn off all Sony brand audio/video equipment
at once. (May not function with older Sony equipment.)
◄ Rewind
► Play
■ Record (press together with ►)
■ Stop
►► Fast forward
II Pause
Press to freeze the picture. Press again to restore the
picture. For details, see page 57.
Press ♠♦ ♦ to move the VCR or DVD player's on-
screen cursor.
Press to display the DVD Menu.
Press to change to the VHF/UHF output of the VCR.
Press to turn on and off the VCR or DVD player.
Use the A/V slide switch to control connected video
equipment. You can program one video source for each
switch position. For details, see "Programming the
Remote Control" on page 47.
Press repeatedly to step through the Audio Effect
options. Also available in the Audio Menu. For details,
see page 80.
Press to select an item in the VCR or DVD player's
menu.
Press to display the DVD player setup menu.

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
Beta, ED Beta VCRs	AV1	303
8 mm VCR	AV2	302
VHS VCR	AV3	301
DVD player	DVD	751

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

- The equipment must have infrared (IR) remote capability in order to be used with the remote control.
- 1 Turn to the list of "Manufacturer's Codes" on page 48, and find the three-digit code number for the manufacturer of your equipment. (If more than one code number is listed, use the number listed first.)
- Open the remote and set the A/V slide switch to AV1, AV2, AV3, or DVD. Close the remote.
- 3 Press CODE SET.
- 4 Enter the three-digit manufacturer's code number.
- **5** Press ENTER.
 - You must do step 5 within 10 seconds of step 4, or you must redo steps 3 through 5.
- 6 To check if the code number works, aim the TV's remote control at the equipment and press the POWER button that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.



- If more than one code 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 cases, you may not be able to operate your equipment with the supplied remote control. In such cases, use the equipment's own remote control unit.
- □ Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reset.

VCRs

VCRs	
Manufacturer	Code
Sony	301, 302, 303
Admiral	327
(M. Ward)	
Aiwa	338, 344
Audio	314, 337
Dynamic	
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	329, 304, 309
Electric	
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305,
T ((D 1	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/	323, 324, 325,
MGA	326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327

Manufacturer	Code
Orion	317
Panasonic	308, 309, 306,
	307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/	304, 305, 308,
PROSCAN	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
Signature	338, 327
2000 (M.	
Ward)	
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

Laserdisc Players

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

DVD Players

Manufacturer	Code
Sony	<i>7</i> 51
General	755
Electric	
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA/Proscan	755
Samsung	758
Toshiba	754
Zenith	760

Cable Boxes

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

Satellite Receivers

Code			
801			
810			
810			
802			
805			
804			
809			
803			
802, 808			
806, 807			

Using the Features

Overview

This chapter describes how to use the features of your TV.

Topic	Page	
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Using the Scrolling Index	51	
Using Wide Mode	52	
Using Twin View	53	
Using Favorite Channels	56	
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Using Other Equipment with Your TV Remote Control	58	

Watching TV

For a complete list of all the functions of the remote control, see pages 43-48.

To Do This	Do This	
Activate the remote control to operate the TV	Press TV FUNCTION	
Turn on/off the TV	Press TV POWER	
Tune directly to a channel	Press 0-9 and then ENTER (or wait 3 seconds) or Press CH+/-	
Adjust the volume	Press VOL +/-	
Mute the sound	Press MUTING (press again to unmute)	
Alternate back and forth	Press JUMP	
between two channels	The TV alternates between the current channel and the last channel tuned.	
Display the current channel number (and other information)	Press DISPLAY once to display the channel number, current time, and channel label (if set). Press DISPLAY again to turn Display off.	
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.	
Change video and audio options, customize the TV's setup, set parental controls, and more	Press MENU to display the Menu. For details, see "Using the Menus" on page 77.	
Switch the TV's input between sources connected to the TV's VHF/UHF and AUX inputs	Press ANT to alternate between sources connected to the TV's VHF/UHF and AUX inputs.	

Using the Scrolling Index

The Scrolling Index lets you select programs from a series of preview windows that scroll along the right side of the screen.

1 Press INDEX.

The Scrolling Index appears, with the currently selected program in the main (left) window, and four scrolling video pictures in the right.



As each picture on the right scrolls to the live preview window, it changes briefly from a frozen video picture to a live video. The right side continues to scroll through the entire channel list.

- 2 To change the direction of the scrolling, move the joystick ♠ or ♥.
- 3 To change the speed of the scrolling, move and hold the joystick ♠ or ♥.
- 4 To change a frozen video picture to a live video, move the joystick ♠ or ♥ to highlight the picture, then press ⊕.
- To move the live video (from step 4) from the right to the main (left) window of the Scrolling Index, press 🕀 again.

To exit the Scrolling Index

Press INDEX.

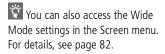
Factors Affecting Scrolling Index

- □ Scrolling Index does not function if you use a cable box to view all channels.
- □ Sources connected to the AUX, VIDEO 5, VIDEO 6, and VIDEO 7 inputs display in the left window, but not the right windows.
- □ Scrolling Index does not function if parental controls are set (see page 86).

Using Wide Mode

Wide Screen mode lets you watch 4:3 normal broadcasts in several Wide Screen modes (16:9 aspect ratio).

- When viewing high-definition programs broadcast in 720p/1080i, it is not possible to change between Wide Screen modes.
- Press WIDE MODE repeatedly to toggle through the following Wide Mode settings.



Example

Description



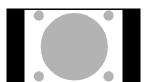
Wide Zoom enlarges the center portion of the 4:3 picture proportionately; however, only the left and right edges of the screen are stretched to fill the 16:9 screen. The picture has a normal appearance, as much as possible.



Wide Zoom



Normal returns the 4:3 picture to its original size. Black bars are visible at left and right sides to fill the 16:9 screen.



Normal



Full Mode stretches the entire 4:3 picture horizontally only, to fill the 16:9 screen. The picture has an elongated appearance.



Ful





Zoom

Zoom Mode enlarges the entire 4:3 picture proportionately to fill the 16:9 screen. Useful for watching Letterbox movies.



When you change channels or inputs, the Wide Mode settings revert to the 4:3 Default setting in the Screen menu. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 83.

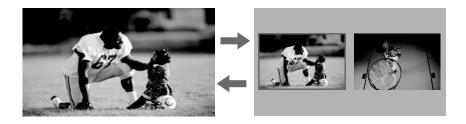
Using Twin View

Twin View lets you see two pictures from two sources — from an antenna, VCR, DVD, etc. — on the screen at the same time. You hear the sound from only one of the sources at a time, but you can choose which source's sound is selected. You can also change the relative size of each of the pictures.

Displaying Twin Pictures

- 1 Tune the TV to a working channel.
- 2 Press ①.

A second picture appears. The active picture is highlighted.



To cancel Twin View and watch the active picture

 \square Press \bigcirc or \bigcirc .

Factors Affecting Twin View

- ☐ If you use a cable box to view all channels, the same channel appears in both windows of Twin View because the cable box unscrambles only one channel at a time.
- □ If you use a cable box, you can view the cable box output in one Twin View window and view a different source (such as a VCR or DVD player) in the second window by using the TV/VIDEO button. For details, see "Connecting Optional Equipment" on page 23.
- □ Sources connected to the AUX, VIDEO 5, VIDEO 6, and VIDEO 7 inputs display in the left Twin View window, but not the right.
- ☐ If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side in Twin View, the 4:3 source appears larger.
- ☐ Twin View does not display channels that are blocked by parental settings (see page 86).

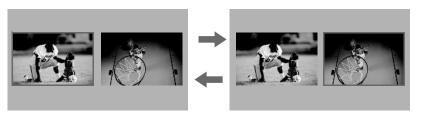
Activating the Picture

To activate the picture in the right window

■ Move the joystick .

To activate the picture in the left window

☐ Move the joystick ◆.



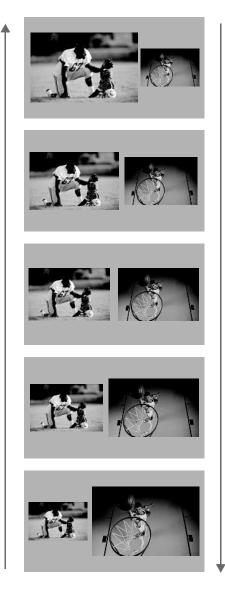
Functions Available in the Active (Highlighted) Window

,	3 3 ,
To Do This	Do This
Tune to a channel	Press 0-9 and then ENTER (or wait 3 seconds) or Press CH+/-
Adjust the volume	Press VOL +/-
Mute the sound	Press MUTING (press again to unmute)
Switch the TV's input between sources connected to the TV's VHF/UHF and AUX inputs	Press ANT
Switch the TV's input between sources connected to the TV's A/V inputs	Press TV/VIDEO
Change the picture size	Move the joystick ♠ or ♣. (For details, see "Changing the Picture Size" on page 55.)

Changing the Picture Size

The zoom feature lets you vary the relative size of the left and right pictures.

- 1 Move the joystick ◆ or → to activate the picture that you want to resize.
- 2 Move the joystick ♠ to enlarge the picture.
- 3 Move the joystick **♦** to make the picture smaller.



When you adjust the picture sizes, the TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using Favorite Channels

The Favorite Channels feature lets you select programs from a list of up to eight favorite channels that you specify.

Creating a List of Favorite Channels

For details on using the Channel Menu, see page 84.

- 1 Press MENU to display the Menu.
- 2 Move the joystick ◆ or → to highlight the Channel icon and press ⊕.
- 3 Press 🕀 to select Favorite Channels.
- 4 Move the joystick ♠ or ♥ to highlight a Favorite Channel number (1-8) and press ⊕.
- Move the joystick ♠ or ♥ to highlight a channel you want to assign to the Favorite Channel number. A preview of the highlighted channel appears in the upper right of the screen. Press ⊕ to select that channel as a Favorite Channel.
- 6 To add more channels to your favorites list, repeat steps 4-5.

 To clear a Favorite Channel, move the joystick ♠ or ♥ to highlight the channel you want to clear. Press ⊕ and then press RESET.
- 7 Press MENU to exit the Menu.

Displaying a List of Favorite Channels

(e.g., ABC, HBO, MTV, etc.) to channel numbers, as shown at right, use the Channel Label feature in the Channel Menu (see page 85).

1 Press FAVORITES. The Favorite Channels list appears.



- Move the joystick ♠ or ♥ to highlight the channel you want to watch.
 - A preview of the highlighted Favorite Channel appears.
- **3** Press ⊕ to select the channel you want to watch.

Using the Freeze Function

The FREEZE button (on the inside panel, see page 46) allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

The Freeze feature is not available while using Twin View.

- 1 When the program information you want to capture is displayed, press FREEZE.
- 2 The TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



3 To cancel and return to normal viewing, press FREEZE (or just tune to another channel).

Using Other Equipment with Your TV Remote Control

All Equipment

To Do This	Do This
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Set up the TV remote control to operate non-Sony equipment	You must program the remote control the first time you use it. See "Programming the Remote Control" on pages 47 to 48.

Operating a VCR

To Do This	Press
Activate the remote control	Open the outside cover, as shown on page 46.
to operate the VCR	Then set the A/V slide switch to the position
	you programmed for the VCR.
Change channels	CH +/-
Record	► and • simultaneously
Play	>
Stop	
Fast forward	>>
Rewind the tape	44
Pause	II
Search the picture forward	▶▶ or ◀◀ during playback
or backward	(release to resume normal playback)
Change input mode	TV/VCR

Operating a Satellite Receiver

To Do This	Press
Activate the remote control	SAT/CABLE FUNCTION
to operate the satellite	
receiver	
Turn on/off	SAT/CABLE POWER
Select a channel	0-9, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display SAT Guide	GUIDE
Display SAT Menu	MENU
Move highlight (cursor)	Move the joystick ♠ ♦ ♦
Select item	(+)

Operating a Cable Box

To Do This	Press
Activate the remote control to operate the cable box	SAT/CABLE FUNCTION
Turn on/off	SAT/CABLE POWER
Select a channel	0-9, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

Operating a DVD Player

To Do This	Press
Activate the remote control to operate the DVD	Open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the DVD player.
Play	
Stop	•
Pause	II
Step through different tracks of the 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
Display the DVD player Menu (Setup)	MENU (inside panel)
Display the DVD Menu	DISC MENU
Move highlight (cursor)	↑ † + →
Select item	SELECT

Operating an MDP (Laserdisc Player)

To Do This	Press
Activate the remote control to operate the MDP	Open the outside cover, as shown on page 46. Then set the A/V slide switch to the position you programmed for the MDP player.
Play	>
Stop	
Pause	II
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

Using the Memory Stick Viewer

About Memory Stick



Memory Stick (sold separately) is a new, compact, portable, and versatile Integrated Circuit recording medium with a data capacity that exceeds that of a floppy disk. Memory Stick is specially designed for sharing digital data among Memory Stick compatible products such as digital cameras and digital video cameras. Because it is removable, Memory Stick can also be used for external data storage.

The Memory Stick Viewer on your TV allows you to view files that are stored on Memory Stick media. You can view:

- □ Digital photos (JPEG files)
- ☐ Movies (MPEG1 files)

You can also play slide show background music using MP3 files stored on your Memory Stick.

For more information about handling Memory Stick media, see "Notes on Using Memory Stick Media" on page 75.

Features

With the Memory Stick Viewer, you can:

- □ View photo (JPEG) and movie (MPEG1) files in a thumbnail index or Slide Show
- Set customized Slide Show options, including transitions and background audio
- Pan, zoom, and rotate photos
- □ Lock (protect) or delete files on the Memory Stick

Memory Stick Compatibility

This television is compatible with the following Memory Stick media types:

- ☐ Memory Stick Media
- ☐ Memory Stick Duo Media
- ☐ Memory Stick Media with Memory Select Function

File Compatibility

The Memory Stick Viewer is compatible with JPEG images taken with Sony digital still cameras and MPEG1* movies taken with Sony digital cameras and camcorders. In order to be viewable in the Memory Stick Viewer, the files must have the following file name extensions:

File Type	Supported File Name Extensions
JPEG	.jpg .jpeg
MPEG1	.mpg .mpeg

Trademark Information

Memory Stick and MagicGate are trademarks of Sony Corporation.

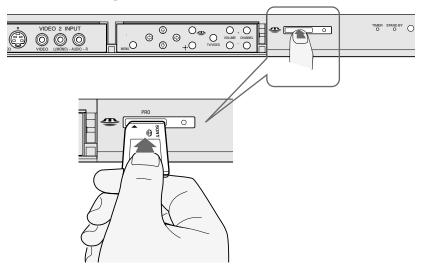
^{*}Some variations of MPEG1 movies may not play back correctly.

Inserting and Removing a Memory Stick

If you are using a Memory Stick Duo, see "Inserting the Memory Stick Duo" on page 64.

Inserting a Memory Stick

1 Locate the Memory Stick slot (see page 12) and insert the Memory Stick into the Memory Stick slot as illustrated below. When inserted properly, it should slide in with little resistance and click into place.



Be sure to insert the Memory Stick in the correct direction. If the Memory Stick is forced in the wrong way, it may become damaged.

Insert only Memory Stick media into the Memory Stick slot. Attempting to insert other objects into the slot may damage the TV.

To remove the Memory Stick, see "Removing a Memory Stick" on page 65.

Inserting the Memory Stick Duo

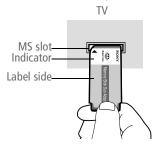
Memory Stick Duo is a new, compact version of the standard-sized Memory Stick recording medium.

CAUTION: Inserting the Memory Stick Duo incorrectly may result in permanent damage to the Memory Stick Duo and the TV.

1 Before inserting a Memory Stick Duo into the TV's Memory Stick slot, you must first insert the Memory Stick Duo into an adapter (sold separately).



- CAUTION: Inserting the Memory Stick Duo into the Memory Stick slot without the adapter may result in permanent damage to the Memory Stick Duo and the TV.
- 2 Insert the Memory Stick Duo and adapter as shown below.



CAUTION: Inserting the Memory Stick adapter backwards or upside down may result in permanent damage to the Memory Stick adapter and the TV.

To remove the Memory Stick Duo, see "Removing a Memory Stick" on page 65.

Removing a Memory Stick

To remove a Memory Stick

- 1 Check that the Memory Stick indicator is off. (When the light is on, this indicates that the TV is reading data from the Memory Stick.)
- Removing the Memory Stick while a file is being accessed (when the Memory Stick LED on the TV's front panel is lit) may damage the Memory Stick or its contents.
- 2 Push the Memory Stick gently into the slot, and then release it. The Memory Stick media is ejected.
- Do not pull out the Memory Stick without first pushing it in; otherwise, the TV's locking mechanism may become damaged.
- 3 Pull the Memory Stick completely out of the slot.
- To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.

Using the Memory Stick Index

Turn on the TV and insert a Memory Stick that contains the photo or movie files you want to view. For details, see page 63.

If the Memory Stick Index does not appear, press the MEMORY STICK button on the remote control.

The Memory Stick Index appears, which displays thumbnail images of the files stored on the Memory Stick.



About the Lock and Movie Icons on the Thumbnail Images

- Indicates the thumbnail is a movie (MPEG1) file instead of a photo (JPEG) file.
- ⑤── Indicates the thumbnail is locked. Locked files cannot be changed or deleted. For details, see "Protect" on page 74.

Using the Memory Stick Index

The following describes how to use the Memory Stick Index.

To Do This	Do This
Move the highlight to a photo or movie ([=]) thumbnail	Move the joystick ♠ ♥ ◆ ▶.
Display the highlighted photo or movie file full screen	Press ①. For details, see "Viewing Photos" on page 68 and "Playing Movies" on page 71.
Display the next	1 Move the joystick ▼ to select ▼ .
page of thumbnails	2 Move the joystick ♥ to display the next page of thumbnails.
Display the	1 Move the joystick ▼ to select ▼ .
previous or next	2 Move the joystick ◆ to select ♦.
page of thumbnails	3 To go to the previous page, move the joystick ↑ . To go to the next page, move the joystick ▼ .
Use the Memory	1 Move the joystick ▼ to select ▼ .
Stick menu bar to access additional	2 Move the joystick ◆ or → to select Slide Show, Folder, or Memory Stick.
options	3 Move the joystick ♠ or ♥ to select the option you want to change.
	For details on these options, see "Memory Stick Index Menu Bar Options" on page 73.
Move the highlight	1 Move the joystick ◆ or ▶ to select V .
from the Memory Stick menu bar back to the thumbnails	2 Move the joystick ♠ to return to the currently displayed thumbnails, or ♦ to display the next page of thumbnails.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

Viewing Photos

When you select a photo from the Memory Stick Index (described on page 66), it displays as shown below, with the following controls.



JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.

Photo Controls

When the menu is hidden, move the joystick ← or → to go to the previous or next photo.

To Do This	Do This
Display the next or previous file on the Memory Stick	Move the joystick to highlight the (Previous/Next) button. Then move the joystick ◆ to go to the previous file, or → to go to the next file.
Hide the Photo menu bar, displaying only the photo	With the highlight in the Photo menu bar, move the joystick ♥.
Display the hidden Photo menu bar	Move the joystick ♠.
Display the Memory Stick Index again	Move the joystick to highlight Index in the Photo menu bar and press ①.
	For details on the Memory Stick Index, see page 67.
Access additional options in the Photo menu bar	See "Photo Menu Bar Options" on page 69.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

Photo Menu Bar Options

The Photo menu bar lets you access additional photo viewing options.

To access the Photo menu bar

- 1 Move the joystick ← or → to select Slide Show, View, or File.
- 2 Move the joystick to select the desired option.

	, ,	1		
Option	Description			
Index	thumbnail o	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed photo. For details, see "Using the Memory Stick Index" on page 66.		
Slide Show		Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 73.		
View	Zoom/Pan	Allows you to magnify and pan across the photo. For details, see "Using Zoom and Pan" on page 70.		
	Rotate	Allows you to rotate the photo in 90 degree increments clockwise or counterclockwise. For details, see "Using Rotate" on page 70.		
File	Information	Allows you to turn on or off the display of file information. Select On or Off.		
	Protect	Allows you to the protect the JPEG file from any changes. When a JPEG file is protected, it cannot be rotated or deleted. Select 0n or 0ff.		
	Delete	Deletes the JPEG file from the Memory Stick. You cannot delete a JPEG file that has been protected (or if the Memory Stick is locked).		

☐ JPEG files that are protected are indicated by the Lock icon.

Using Zoom and Pan

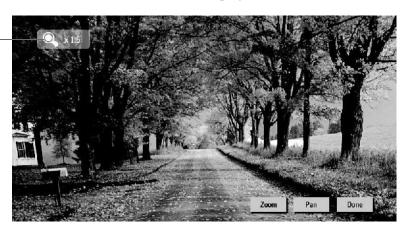
To Zoom and Pan a photo

- 1 In the Photo menu bar, move the joystick to highlight View.
- 2 Move the joystick to highlight Zoom/Pan and press .
- 3 Specify the zoom center point by moving the joystick; then press

 to set the center.

The Zoom and Pan controls are displayed.

Indicates Zoom increment



To Do This	Do This
Zoom in (increase magnification) or out (decrease magnification)	Move the joystick to highlight Zoom and press ⊕. Then move the joystick ♠ to zoom in or ♥ to zoom out.
	To stop using Zoom, press ①.
Pan (left, right, up, down)	(You can use Pan only when the photo is magnified using Zoom.)
	Move the joystick to highlight Pan and press \bigoplus . Then move the joystick $\spadesuit \spadesuit \spadesuit$ to pan around the photo.
	To stop using Pan, press 🕒.
Exit the Zoom/Pan controls	Move the joystick to highlight Done and press ①.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

Using Rotate

To Rotate a photo

- 1 In the Photo menu bar, move the joystick to highlight View.
- 2 Move the joystick to highlight Rotate.
- To rotate clockwise, move the joystick to highlight Clockwise and press .

To rotate counterclockwise, move the joystick to highlight Counterclockwise and press \bigcirc .

The photo is rotated 90 degrees each time you press (+).

Playing Movies

When you select a movie from the Memory Stick Index (described on page 66), it displays as shown below, with the following controls.



Movie Controls

The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera's instruction manual for details.

To Do This	Do This
Enlarge the movie window	Move the joystick to highlight Enlarge, and then press ①. To display the movie controls again,
	press 🕀. When the movie ends, the movie controls are displayed again.
Play the movie with the movie controls displayed	Move the joystick to highlight \blacktriangleright (Play) and then press \oplus .
Pause the movie	Move the joystick to highlight \blacksquare (Pause) and then press \bigcirc .
Display the previous or next file on the Memory Stick	Move the joystick to highlight the (Previous/Next) button. Then move the joystick to go to the previous file, or → to go to the next file.
Hide the Movie menu bar, displaying only the movie	With the highlight in the Movie menu bar, move the joystick ♥.
Display the hidden Movie menu bar	Move the joystick ♠.
Access additional options in the Movie menu bar	See "Movie Menu Bar Options" on page 72.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

Movie Menu Bar Options

To access the Movie menu bar

- 1 Move the joystick to highlight Index in the Movie menu bar.
- 2 Move the joystick ◆ or → to select Index, Slide Show, or File.
- **3** Move the joystick to select the desired option.

Option	Description		
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed movie.		
Slide Show	Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 73.		
File	Information	Determines whether file information is displayed. Select 0n or 0ff.	
	Protect	Allows you to the protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off.	
	Delete	Deletes the MPEG1 file from the Memory Stick. You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).	

MPEG1 files that are protected are indicated by the Lock 🗪 icon.

Memory Stick Index Menu Bar Options

Slide Show Menu Options

The Slide Show menu is the same whether you select it from the Memory Stick Index (page 66), Photo (page 68), or Movie (page 71) menus.

When you select Complete List, it may take a moment to display the list of all MP3 files.

Some JPEG files may take longer to display than others, which may make it seem longer than the interval you selected for Slide Duration.

The Slide Show menu includes the following options:

Option	Description			
Start	Starts the Slide Show.			
Music	Allows you to select background audio to play during the Slide Show.			
	Off	No additional background audio is played during the Slide Show. Audio that is associated with the JPEG or MPEG1 files will play.		
	Play All	Plays all MP3 files on the Memory Stick. The Piano MP3 file is not played.		
	Piano	Plays the MP3 file stored in the TV's internal memory. (This file is indicated by a different color than the MP3 files on the Memory Stick.)		
	(List of MP3 Files)	Displays a list of all MP3 files found at the top level (root) of the Memory Stick. To show additional MP3 files stored in other folders on the Memory Stick, select Complete List.		
	Complete List	Displays a list of all available MP3 files. The list is sorted in alphabetical order, grouped by folder.		
Transition Effect	•	select an effect to be used when advancing to the Slide Show.		
	Off	Uses a quick change, or cut.		
	Fade	Uses a cross fade.		
	Wipe → Wipe ← Wipe ↑	Uses a linear sweep that moves across the screen, revealing the next image while covering the previous image.		
	Random	Randomly cycles through all Transition Effects.		
Slide Duration	Allows you to specify a timed slide advance after a selected time interval. Select from 3 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min.			
Repeat	On	Slide Show continuously loops.		
	Off	Slide Show plays once through all files and ends.		

Folder Menu Options

The Folder menu includes the following options:

Option	Description			
Select Contents	Allows you to select different folders to view in the Memory Stick Viewer.			
	Digital Camera Folders	Selects all folders within the directories defined by the DCF rules used by Sony digital cameras (see page 75). JPEG and MPEG1 files in those directories are recognized even if they do not conform to the DCF file naming rules.		
	Select a Folder	Allows you to access individual folders on the Memory Stick.		
Protect	is protected, it can	otect files from any changes. When a file nnot be rotated or deleted. The Protect s currently shown in the Memory Stick		
	Protect All	Protects all files.		
	Protect None	Unprotects all files.		
File Order	Allows you to change the order in which the Memory Stick files are displayed.			
	Date Order	Displays files in chronological order by modification date.		
	Date Order Reverse	Displays files in reverse chronological order by modification date.		
	Alphabetical	Displays files in alphabetical order by filename.		
Filter	Allows you to sel within the selecte	ectively display specific file types ed folder.		
	Show All	Displays all readable files.		
	Show Photos Only	Displays only photo (JPEG) files.		
	Show Movies Only	Displays only movie (MPEG1) files.		

Files that are protected are indicated by the Lock 🖘 icon.

The Rotate and Protect functions do not change the file's modification date.

Memory Stick Menu

The Memory Stick menu displays the current status of the Memory Stick, including total capacity, used capacity, and free capacity.

Notes on Using Memory Stick Media

About DCF File Names

Most Sony brand digital still and video cameras automatically record still photo and movie files using DCF compliant directory and file names.

If you selected the Digital Camera Folders option, as described on page 74, you might want to have your digital camera's instruction manual handy in order to check how files and directories are organized for your specific model of digital camera.

DCF stands for "Design Rules for Camera File Systems," which are specifications established by the Japan Electronic Industry Development Association (JEIDA).

Memory Stick Precautions

When using Memory Stick media, follow these precautions:

- □ To avoid permanent damage to still image data, do not turn off the TV or remove Memory Stick media from the insertion slot while data is being read (as indicated by the Memory Stick indicator light being on).
- □ Avoid touching the terminal of Memory Stick media or bringing it into contact with a metal object.
- □ Do not drop, bend, or submit Memory Stick media to external shock.
- □ Do not disassemble or modify Memory Stick media.
- □ Avoid getting liquid on Memory Stick media.
- □ Apply labels only within the designated label area.



- ☐ To avoid permanent damage to still image data, do not use or store Memory Stick media in a location subject to:
 - ☐ High temperature (such as near a heater or inside a hot car)
 - High humidity
 - Direct sunlight
 - □ Corrosive substances
 - Magnetic fields
 - □ Excessive dust
 - Static electricity or electric noise
 - □ Electric surges
- □ Store and carry Memory Stick media in its original case to ensure protection of stored data.
- □ Save a backup of stored data.

Using the Menus

Overview

The Menu gives you access to the following features:

Menu Icon	Description	Page
Video	Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing, select Advanced Video options, and more.	78
Audio	Offers enhanced audio options such as listening to second audio programming (SAP) or customizing the Effect of the sound on your TV.	80
Screen.	Allows you to make Wide Mode adjustments and make changes to the screen's vertical center and size.	82
Channel	Allows you to set up a Favorite Channel list, run the Auto Program function, skip and label channels, and more.	84
Parent	Lets you control the viewing of programs based on their ratings.	86
Setup	Provides options for setting up your system, including selecting closed caption modes, setting the Timer, labeling video inputs, selecting the language of the on-screen menus, and more.	89

Press MENU to enter and exit Menus.

Navigating Through Menus

Menus include navigation help text that appears at the bottom of each Menu.

To Do This	Press	
Display the Menu	MENU	
Move through the Menus	+ +	
Move through the Menu options	+ +	
Select an option to change	\odot	
Change an option's settings	↑ * ← →	
Select (confirm) changed setting	⊕ or ◆	
Exit the Menu	MENU	

Video

Using the Video Menu

To select the Video Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to highlight the Video icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.
- Move the joystick ◆ ◆ ◆ to change settings. Press ⊕ to select the changed setting.
- 5 Press MENU to exit the Menu.

To restore the factory default settings for Video settings:

☐ Press RESET on the remote control when in the Video Menu.

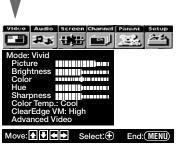
Selecting Video Options

To change from one Mode to another, use the PIC MODE button on the remote control.

You can alter the Video Menu settings (Picture, Brightness, Color, etc.) for each Mode.

The Video Menu includes the following options:

Option	Description			
Mode Customized	Vivid	Select for enhanced picture contrast and sharpness.		
picture	Standard	Select for standard picture settings.		
viewing	Movie	Select to display a softer picture.		
	Pro	Select to display a picture with minimum enhancements.		
Picture	Adjust to increase picture contrast and deepen the color, or decrease picture contrast and soften the color.			
Brightness	Adjust to brighten or darken the picture.			
Color	Adjust to increase or decrease color intensity.			
Hue	Adjust to increase or decrease the green tones.			
Sharpness	Adjust to sharpen or soften the picture.			
Color Temp.	Cool	Select to give the white colors a blue tint.		
White	Neutral	Select to give the white colors a neutral tint.		
intensity adjustment	Warm	Select to give the white colors a red tint (NTSC-Standard).		

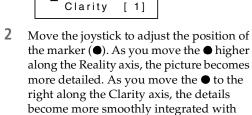


To change quickly from one
DRC Mode to another, use the
DRC MODE button on the remote
control.

To change quickly from one
DRC Palette to another, use the
DRC PALETTE button on the
remote control.

For best results, adjust the Reality by moving the joystick
until you are satisfied with the level of detail. Then adjust the Clarity by moving the joystick
until you have a smooth, detailed image.

Option	Description Sharpens picture definition to give every object a sharp, clear edge. Select from High, Medium, Low, Off.		
ClearEdge VM Velocity Modulation			
Advanced Video	Select Program options.	n to choose a	mong the DRC Mode and DRC Palette
	DRC Mode	Creates a high-resolution picture with 4x density, for high quality sources (i.e., DVD player, satellite receiver).	
		Interlaced	Recommended for moving pictures.
		Progressive	Recommended for still images and text.
		CineMotion	Provides an optimized display by automatically detecting film content and applying a reverse 3/2 pulldown process. Moving pictures will appear clearer and more natural-looking.
	DRC Palette	(Reality) as create up t 1 Move Custom	u to customize the level of detail nd smoothness (Clarity). You can o three Custom DRC Palettes. the joystick to highlight Custom 1, 1, 2, or Custom 3 and then press ⊕. RC palette appears.
		Reality Cn	



one another.

To save the setting, press ().

To return the Custom options to the default factory settings, press the RESET button.

Audio

Using the Audio Menu

To select the Audio Menu

- 1 Press MENU.
- 2 Move the joystick o or → to highlight the Audio icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.
- Move: Select: End: MENU

 Move the joystick to select the changed setting.

eady Sound: Off fect: Simulated

MTS: Stereo

5 Press MENU to exit the Menu.

To restore the factory default settings for Treble, Bass, and Balance

☐ Press RESET on the remote control when in the Audio Menu.

Selecting Audio Options

The Audio Menu includes the following options:

Description		
Adjust to decrease or increase higher-pitched sounds.		
Adjust to decrease or increase lower-pitched sounds.		
Adjust to e	mphasize left or right speaker balance.	
Auto	Select to stabilize the volume.	
Off	Select to turn off Steady Sound.	
TruSurround	Select for surround sound (for stereo programs only).	
Simulated	Adds a surround-like effect to mono programs.	
Off	Normal stereo or mono reception.	
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.)	
	Adjust to d Adjust to d Adjust to d Adjust to e Auto Off TruSurround Simulated Off Stereo Auto SAP	

To change quickly from one Effect to another, use the D button on the inside panel of the remote control.

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S

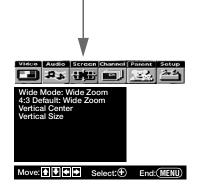
Option	Description		
Speaker	On	Select to turn on the TV speakers.	
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.	
Audio Out Easy control of	This option to Off.	can be set only when the Speaker option is set	
volume adjustments	Variable	The TV's speakers are turned off, but the volume output from your audio system can still be controlled by the TV's remote control.	
	Fixed	The TV's speakers are turned off and the volume output of the TV is fixed. Use your audio receiver's remote control to adjust the volume through your audio system.	



Using the Screen Menu

To select the Screen Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to move to the Screen icon and press ⊕.
- 3 Move the joystick ♠ or ♦ to move to an option. Press ⊕ to select an option.
- 4 Move the joystick ◆ ◆ ↑ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.



Selecting Screen Mode Options

To change from one Wide Mode to another, use the WIDE MODE button on the remote control.

The Screen menu includes the following options:

Option	Description		
Wide Mode Select a Wide Mode to use for	Wide Zoom	Select to enlarge the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.	
4:3 sources.	Normal	Select to return the 4:3 picture to normal mode.	
	Full	Select to enlarge the 4:3 picture	
		horizontally only, to fill the wide screen.	
	Zoom	Select to enlarge the 4:3 picture	
		horizontally and vertically to an equal	
		aspect ratio that fills the wide screen.	
	Wide Mode is unavailable while in Twin View, or when viewing HD (1080i, 720p) sources.		
	In some cases, wide-screen programs will be shown in aspect ratios that require the display of black bands at the top and bottom of your 16:9 screen. For more details, see page 99.		

If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off.

Option	Description		
4:3 Default Select the default Screen Mode to	Wide Zoom	Select to enlarge the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.	
use for 4:3 sources	Normal	Select to return the 4:3 picture to normal mode.	
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.	
	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.		
	Off Select to continue using the current Wide Mode setting when the channel or input is changed.		
Vertical Center	Allows you to move the position of the picture up and down in the window. (Available only in Wide Zoom an Zoom modes.)		
	tick ♠ or ♥ and press ⊕ to choose a ween +15 and -15 (Zoom mode), and +5 and n mode).		
Vertical Size	Allows you to adjust the vertical size of the picture. (Available only in Wide Zoom and Zoom modes.)		
	Move the joystick ♠ or ▶ and press ⊕ to choose a correction between +7 and -7.		

Channel

Using the Channel Menu

To select the Channel Menu

- 1 Press MENU.
- 2 Move the joystick ◆ or → to highlight the Channel icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.
- Move the joystick ★ ◆ ◆ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.



Selecting Channel Options

The Channel Menu includes the following options:

		0 1	
Option	Description		
Favorite Channels		up a list of your favorite channels. For 'Using Favorite Channels" on page 56.	
Cable	On	Select if you are receiving cable channels with a CATV cable.	
	Off	Select if you are using an antenna.	
	You should run Auto Program after changing this option.		
Channel Fix	Off	Turns off Channel Fix.	
Useful when you have a cable box or satellite receiver connected	2-6	"Fix" your TV's channel setting to 2–6 and use the cable box or satellite receiver to change channels. Select one of these settings if you connected the equipment to the VHF/UHF jack.	
	AUX 2-6	Same as 2–6, except you select one of these settings if you connected the equipment to the AUX jack (see page 15).	
	Video 1	Use this setting if you have connected the equipment to the A/V input jacks.	
Auto Program	Automatica receivable cl	lly sets up the channel list on the TV for all hannels.	

Channels that you set to be skipped can be accessed only with the 0-9 buttons.

Option	Description
Channel Skip/Add	Allows you to customize the channel list that appears when you use the CH+/- buttons.
	1 Move the joystick ★ or ▼ to scroll through the channels until you find the channel you want to skip or add. Then press ⊕ to select it.
	2 Move the joystick ♠ or ♥ to toggle between Add or Skip. Then press ⊕ to select.
	3 To add or skip more channels, repeat steps 1 and 2.
	4 Move the joystick ◆ to return to the Channel Menu, or press MENU to exit the Menus.
Channel Label	Allows you to assign labels (such as station call letters) to channel numbers. You can label up to 20 channels.
	1 Move the joystick to highlight Channel and press 🕀.
	2 Move the joystick ♠ ♦ to scroll through the channel numbers (1-125). Then press ⊕ to select the channel number that you want to assign a label.
	Move the joystick to highlight Label and press 🕀.
	4 Move the joystick ★ ▼ to scroll through the label characters (A-Z, 0-9, etc.). Then press ⊕ to select the highlighted character.
	5 Repeat to add up to 5 characters to the label.
	6 To assign labels to more channels, repeat steps 1-4.
	7 Move the joystick • to return to the Channel Menu, or press MENU to exit the Menus.

Parent

Using the Parent Menu

The Parent Menu allows you to set up the TV to block programs according to their content and rating levels.

To select the Parent Menu

- 1 Press MENU.
- 2 Move the joystick o or → to highlight the Parent icon and press ⊕.
- Password:

 Press ⊕ to enter password

 Move: Select: ⊕ End: MENU
- 3 Use the 0-9 buttons on the remote control to enter a four-digit password.
- 4 If this is the first time you are creating this password, confirm the password by entering it again. (The Parent Menu options appear.)
- Move the joystick ◆ ◆ ◆ ◆ to change settings. Press ⊕ to select the changed setting.
- 6 Press MENU to exit the Menu.

You need your password for any future access into the Parent Menu. If you lose your password, see "Lost password" on page 100.

Selecting Parent Options

If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more specific ratings, select Custom.

For descriptions of Child, Youth, and Young Adult ratings, see page 87. The Parent Menu includes the following options:

Option	Description			
Parental Lock	Off	Parental lock is off. No programs are		
Turn ratings		blocked from viewing.		
on/off and select a	Child	Maximum ratings permitted are:		
rating system		☐ US: TV-Y, TV-G, G		
78 - y-1		☐ Canada: C, G, TV-Y		
	Youth	Maximum ratings permitted are:		
		☐ US: TV-PG, PG		
		☐ Canada: C8+, PG, 8 ans+, TV-PG		
	Y. Adult	Maximum ratings permitted are:		
		☐ US: TV-14, PG-13		
		☐ Canada: 14+, 13 ans+, TV-14		
	Custom	Select to set ratings manually.		
		☐ US: See page 87 for details.		
		☐ Canada: See page 88 for details.		
Change Password	For changing	g your password.		
Select Country	U.S.A.	Select to use USA ratings (see page 87).		
	Canada	Select to use Canadian ratings (see page 88).		

US Models: Selecting Custom Rating Options

The Content-Based Ratings are linked to the level of the Age-Based Rating. For example, a program with an Age-Based Rating of TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

To ensure maximum blocking capability, set the Age-Based Ratings.

If you block unrated TV programs, be aware that the following types of programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

For US models, the Custom Rating Menu includes the following options. (For Canadian models, see page 88.)

Option	Descrip	tion		
Movie Rating	G	All children and General Audience.		
	PG	Parental Guidance suggested.		
	PG-13	Parental Guidance for children under 13.		
	R	Restricted viewing, parental guidance is suggested for children under 17.		
	NC-17	No one 17 or under allowed.		
	and X			
TV Rating	Age-Base	ed Ratings		
Block programs	TV-Y	All children.		
by their rating,	TV-Y7	Directed to children age 7 and older.		
content or both	TV-G	General Audience.		
	TV-PG	Parental Guidance suggested.		
	TV-14	Parents Strongly cautioned.		
	TV-MA	Mature Audience only.		
	Content-Based Ratings			
	FV	Fantasy Violence.		
	D	Suggestive Dialogue.		
	L	Strong Language.		
	S	Sexual situations.		
	V	Violence.		
Unrated	Block	Blocks all programs and movies that are		
Block programs		broadcast without a rating.		
or movies that	Allow	Allows programs and movies that are		
are broadcast		broadcast without a rating.		
without a rating				

Viewing Blocked Programs

You can view blocked programs by entering the password. Press the ENTER button when tuned to a blocked program, then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.

Canadian Models: Selecting Custom Rating Options

For Canadian models, the Custom Rating Menu includes the following options. (For US models, see page 87.)

Option	Description	
English Rating	С	All children.
	C8+	Children 8 years and older.
	G	General programming.
	PG	Parental Guidance.
	14+	Viewers 14 and older.
	18+	Adult programming.
French Rating	G	General programming.
	8 ans+	Not recommended for young children.
	13 ans+	Not recommended for ages under 13.
	16 ans+	Not recommended for ages under 16.
	18 ans+	Programming restricted to adults.
U.S.A. Rating	See "US Moo	lels" on page 87 for details.

Viewing Blocked Programs

You can view blocked programs by entering the password. Press the ENTER button when tuned to a blocked program, then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.

Menus

Setup

Using the Setup Menu

To select the Setup Menu

- 1 Press MENU.
- 2 Move the joystick ◆ or → to highlight the Setup icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.
- 4 Move the joystick ★ ▼ ◆ → to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.



Selecting Setup Options

The Setup Menu includes the following options:

Option	n Description			
Caption Vision	Allows you to select from three closed caption modes (for programs that are broadcast with closed caption).			
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)		
	Text1,Text2, Text3,Text4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.		
	Info	Displays the program name and the time remaining in the program (if the broadcaster offers this service). Displays when the channel is changed or the DISPLAY button is pressed.		
	Off	Turns off Caption Vision.		

Option	Description		
Video Label	Allows you to identify A/V equipment you connected to the TV, such as a VCR, DVD, etc. For example, if you have a DVD player connected to the VIDEO 5 jack, you can select the label DVD for the VIDEO 5 input. Then when you press the TV/VIDEO button to change inputs, the Video Label you assigned to that input appears on screen. 1 Move the joystick ♠ or ♥ to highlight the video input (VIDEO 1-7) to which you want to assign a label. Then press ⊕ to select the input. 2 Move the joystick ♠ or ♥ to highlight one of the displayed labels. Then press ⊕ to select the label.		
	You can select from the	ne following labels for each input:	
	Video 1/2/3/4	VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Web, Beta, Skip	
	Video 5/6/7	DVD, Satellite, Cable Box, DTV, HD, Skip	
	If you select Skip, press the TV/VIDE	your TV skips this input when you O button.	
Tilt Correction	Allows you to correct	any tilt of the picture.	
	Move the joystick ◆ or ◆ to choose a correction between +7 and -7 and press ⊕.		
Vertical Correction	Allows you to make a vertical correction to the picture.		
	Move the joystick ◆ or ◆ to choose a correction between +5 and -5 and press ⊕.		
Language	Select to display all or choice.	n-screen Menus in your language of	

The Skip label is useful for inputs that do not have equipment connected to them.

Normally, Tilt Correction and Vertical Correction only need to be adjusted the first time you turn on the unit and after the unit is moved to a new location.

Option	Description		
Clock/Timers			ock and to program your TV to turn on leduled viewing times.
		ner 1 ner 2	You can use the Timers to program the TV to turn on and off and tune to a specific channel at two scheduled viewing times.
		ner 1 and Timer 2 Current Time.	are not available to be set until you set
	1		stick ♠ or ♣ to highlight Timer 1 or t the timer, move the joystick ▶.
	2		stick ♠ or ♥ to highlight one of the tions, then press ♠.
		Program	Select to set the Timer by day, time, duration, and channel.
		Off	Select to turn off the Timer. (Your previous settings are saved.)
	3	and ♥ to set to channel num confirm each	d Program in step 2, move the joystick ♠ the day(s), hour, minute, duration, and ber. Press ⊕ or move the joystick ♠ to setting and move to the next setting. Stick ♠ to go back to the previous
	4	Press MENU to exit the Menu. An LED on the front panel will light, indicating the timer has been set.	
	Cui	rrent Time	
	1	Press 🕀 to	select Current Time.
	2	(day, hour, ar joystick →) to next setting.	stick • and • to set the current time and minute). Press 🕁 (or move the confirm each setting and move to the Move the joystick • to go back to the
	3	previous sett	mg. o exit the Menu.

Demo

To go directly to programming Timer 1 or 2, press 🕁 instead of moving

the joystick **→**.

Runs a demonstration of on-screen Menus.

Other Information

Overview

This chapter includes the following topics:

Topic	Page	
Glossary	94	
Contacting Sony	95	
Troubleshooting	95	
Specifications	101	
Optional Accessories	101	
Index	103	

Glossary

analog signal

A signaling method that uses continuous changes in the amplitude or frequency of an electronic transmission to convey information.

aspect ratio

Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.

4:3 aspect ratio





component video



Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S VIDEO by splitting chrominance into two separate portions.

composite video

Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.

degauss

A process that demagnetizes the metal components in the TV monitor, which eliminates image distortion that can result from magnetic charges acquired by the TV's components. Your TV degausses automatically when it is turned on.

digital television (DTV)

A new technology for transmitting and receiving broadcast television signals. DTV provides clearer resolution and improved sound quality over analog television.

National Television System Committee (NTSC) A unit of the Federal Communications Commission, Washington, DC, that establishes television standards in the United States, such as NTSC Color, the standard used in this TV.

RF

Radio Frequency. That part of the frequency spectrum that is used to transmit TV and radio signals.

S VIDEO

S VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S VIDEO provides better resolution than composite video, which carries the signals together.

VHF/UHF

VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.

480i

Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.

480p

Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

720p

Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

1080i

Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (US residents only) or (416) 499-SONY (7669) (Canadian residents only).

Before calling Sony customer support, please write down the model and serial numbers of your TV. You'll find this information on the front cover of this manual.

Troubleshooting

Twin View

Problem	Po	ssible Remedies
I cannot get Twin View to work		If you are using a cable box to unscramble all channels (as shown on page 22), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time. But if you need the cable box to unscramble only some (usually premium) channels, you can use Twin View for unscrambled channels if you connect both a cable and cable box, as shown on page 20.
		You can use Twin View to view a signal from a different source that is connected to the TV's A/V jacks (such as a VCR or DVD player) in the second window by pressing the TV/VIDEO button while in Twin View.
		Sources connected to the AUX, VIDEO 5, VIDEO 6, and VIDEO 7 inputs display in the left Twin View window, but not the right.
There is no Twin View window, or it is just static		Be sure the Twin View window is set to a video input or channel that has a signal airing.
		You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing the TV/VIDEO button.
		If you connected equipment to the TV's AUX jack, it will display in the left Twin View window, but not the right.
Twin View cannot display anything but TV channels		Try cycling through the video inputs by pressing the TV/VIDEO button. Check that the Video Label option is not set to Skip. (See the Setup Menu on page 89.)
Twin View displays the sam program in both windows	e 💷	Both Twin View windows might be set to the same channel. Try changing channels in either window.

Remote Control

Problem	Pos	ssible Remedies
Remote control		The batteries could be weak. Replace the batteries.
does not operate		Check the orientation of the batteries.
		Press the TV FUNCTION button. You may have inadvertently pressed the
		SAT/CABLE FUNCTION button, which changes the remote control to SAT or
		CABLE mode.
		Make sure the TV's power cord is connected securely to the wall outlet.
		Locate the TV at least 3-4 feet away from fluorescent lights.
Cannot change channels		If you are using the TV to change channels, first press the TV FUNCTION
with the remote control		button.
		If you are using another device to change channels, be sure you have not
		inadvertently switched your TV from the channel 3 or 4 setting. Use the
		Channel Fix option to "fix" the channel based on the hookup you used (see page 84).
		If you are using another device to change channels, be sure to press the
		FUNCTION button for that device. For example, if you are using your cable box
		to change channels, be sure to press the SAT/CABLE FUNCTION button.
Remote control		If you replaced the batteries to the remote recently, the code numbers for
does not operate non-Sony		the video equipment may need to be reset.
video equipment		There may be more than one code for the equipment that you are
		attempting to operate.
		There is a possibility that some non-Sony equipment cannot be operated by
		your Sony TV remote. You may need to use the equipment's original
		remote control.

Channels

Problem	Po.	ssible Remedies
Cannot receive upper		Change the Cable option to Off (see page 84).
channels (UHF) when		Use Auto Program in the Channel Menu to add receivable channels that are
using an antenna		not presently in the TV's memory (see page 84).
TV is fixed to one channel		Use Auto Program in the Channel Menu to add receivable channels that are
		not presently in the TV's memory (see page 84).
		Check your Channel Fix settings (see page 84).
Cannot receive any		Use Auto Program in the Channel Menu to add receivable channels that are
channels when using		not presently in the TV's memory (see page 84).
cable TV		Make sure the Cable option is set to On in the Channel Menu (see page 84).
Cannot receive or select		Use Auto Program in the Channel Menu to add receivable TV channels that
channels		are not presently in TV memory (see page 84).

Memory Stick

Problem	Pos	ssible Remedies
Image does not		Make sure the image file is a JPEG (.jpg, .jpeg) file or an MPEG1 (.mpg,
display/Cannot see all files	_	.mpeg) file.
display/ Carriot see an mes		Make sure the Memory Stick is inserted properly (see pages 63-64).
		Check the Filter option setting (see page 74).
		Check the Select Contents setting (see page 74) and ensure that files are either in DCF directories if Digital Compare Folders is selected (see page 74) or in the
		in DCF directories if Digital Camera Folders is selected (see page 74), or in the currently selected folder if Select a Folder is selected (see page 74).
		The maximum number of files the Memory Stick Viewer can display is
	_	
		2,000 files total, including all JPEG, MPEG1, and MP3 files.
		If you are using a Memory Stick with the Memory Select function, try
IDEC: 1: . 1		changing the position of the A/B select switch.
JPEG image displays		JPEGs captured using a digital video camera may appear to display motion
undesirable motion or flicker		in full screen. This is a result of the way digital video cameras record still
in full screen		images, and is not a result of a malfunction with the TV.
Rotation not saved after		The Memory Stick might be locked. Unlock the Memory Stick and try
Memory Stick is ejected or		rotating the image again.
Memory Stick Viewer is		The file might not have information (EXIF data) that is usually generated
closed		when a digital camera records a photo. In this case, it is not possible to save
		the rotation.
		There might be insufficient space on the Memory Stick to save the rotated
		file. Try deleting one or more files and rotating the image again.
Cannot show (or hide) file		Set the File/Information option to On or Off (see page 72).
information in full screen or		
Slide Show		
_	_	
Cannot see menu		Move the joystick ♠ to display the menu again.
Cannot hear audio while		Check the TV's volume or Speaker (page 81) settings.
		Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders
Cannot hear audio while		Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All.
Cannot hear audio while using Memory Stick	0 0	Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All. Check that the Music option is not to set to Off (see page 73).
Cannot hear audio while using Memory Stick Not all MP3 files on Memory	0 0	Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All. Check that the Music option is not to set to Off (see page 73). The Memory Stick Viewer can display a maximum of 2,000 files total,
Cannot hear audio while using Memory Stick Not all MP3 files on Memory Stick are included when the	0 0	Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All. Check that the Music option is not to set to Off (see page 73). The Memory Stick Viewer can display a maximum of 2,000 files total, including all JPEG, MPEG1, and MP3 files.
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Cannot hear audio while using Memory Stick Not all MP3 files on Memory Stick are included when the Music /Complete List option is selected (page 73) Cannot see MP3 list to play music MP3 file does not play back correctly MP3 files on the Memory Stick are not listed Music files are playing in wrong order MPEG1 movie does not		Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All. Check that the Music option is not to set to Off (see page 73). The Memory Stick Viewer can display a maxiumum of 2,000 files total, including all JPEG, MPEG1, and MP3 files. Make sure that the file is named with the file extension (.mp3). MP3 files on your Memory Stick only can be played as background music during a Slide Show (see page 73). The Memory Stick Viewer supports only MP3 files with a fixed data rate of 128 kbps (kilobits per second). Only MP3 files that are named with the file extension (.mp3) are displayed in the list. MP3 files are played in alphabetical order, according to the folder in which they are stored. If you want to change the playlist order, rename your files alphabetically in the order in which you want them to play. Some variations of MPEG1 movies may not be compatible with the
Cannot hear audio while using Memory Stick Not all MP3 files on Memory Stick are included when the Music /Complete List option is selected (page 73) Cannot see MP3 list to play music MP3 file does not play back correctly MP3 files on the Memory Stick are not listed Music files are playing in wrong order MPEG1 movie does not play back correctly		Check the TV's volume or Speaker (page 81) settings. To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All. Check that the Music option is not to set to Off (see page 73). The Memory Stick Viewer can display a maxiumum of 2,000 files total, including all JPEG, MPEG1, and MP3 files. Make sure that the file is named with the file extension (.mp3). MP3 files on your Memory Stick only can be played as background music during a Slide Show (see page 73). The Memory Stick Viewer supports only MP3 files with a fixed data rate of 128 kbps (kilobits per second). Only MP3 files that are named with the file extension (.mp3) are displayed in the list. MP3 files are played in alphabetical order, according to the folder in which they are stored. If you want to change the playlist order, rename your files alphabetically in the order in which you want them to play. Some variations of MPEG1 movies may not be compatible with the Memory Stick Viewer.
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Problem	Pos	sible Remedies	
Error message		No Memory Stick	There is no Memory Stick in the slot.
is displayed		Memory Stick Locked	The lock mechanism on the Memory Stick is engaged.
		Memory Stick Error	The Memory Stick in the slot might be damaged; try a different Memory Stick.
		Format Error	The Memory Stick may have been formatted using a PC or other device that is not compatible with cameras.
Error icon is displayed		?,	The file is not a valid MPEG1 or JPEG format.
		?	The thumbnail is not DCF-compatible.
		3	The file is a JPEG or an MPEG1, but the thumbnail is unreadable.
		5 2	The file is unreadable.

Video

Problem	Pos	ssible Remedies
No picture		If your TV does not turn on, and a red light keeps flashing, your TV may
(screen not lit), no sound		need service. Call your local Sony Service Center.
		Make sure the power cord is plugged in.
		Press the POWER button on the front of the TV.
		Press the TV/VIDEO button to cycle through the connected video sources.
		Try another channel; it could be station trouble.
Dark, poor or no		Adjust the Picture option in the Video Menu (see page 78).
picture (screen lit),		Adjust the Brightness option in the Video Menu (see page 78).
good sound		Check the antenna/cable connections.
No color		Adjust the Color option in the Video Menu (see page 78).
Only snow and noise		Check the antenna/cable connections.
appear on the screen		Try another channel; it could be station trouble.
		Press ANT to change the input mode (see page 44).
Dotted lines		Adjust the antenna.
or stripes		Move the TV away from noise sources such as cars, neon signs, or hair-
_		dryers.
Double images or ghosts		Using a highly directional outdoor antenna or a cable may solve the
		problem.
"Black box" on screen		You have selected a text option in the Setup Menu and no text is available.
		(See page 89 to reset Setup selections.) To turn off this feature, set the
		Caption Vision option to Off. If you were trying to select closed captioning,
		select CC1 instead of TEXT 1-4.
Black bands appear at the		Some wide-screen programs are filmed in aspect ratios that are greater
top and bottom of the screer	ı	than 16:9, such as 2.35:1. (This is especially common with theatrical
		releases). Your TV will show these programs with black bands at the top
		and bottom of the screen. For more details, check the documentation that
		came with your DVD (or contact your program provider).

Audio

Problem	Pos	ssible Remedies
Good picture,		Press MUTING so that the word Muting disappears from the screen (see page
no sound		44).
		Make sure the Speaker option is set to On in the Audio Menu (see page 81).
		Make sure the MTS option is set to Stereo or Mono (see page 80).
Cannot gain enough volume		Increase the volume of the cable box using the cable box's remote control.
when using a cable box		Then press TV FUNCTION and adjust the TV's volume.
Sound seems weak or insufficient		The TV's audio might be set to Auto SAP or Mono, when it might be better set
		to Stereo. In the Audio Menu (see page 80), set the MTS setting to Stereo. If
		already set to Stereo, switch to Mono (which may reduce background noise
		during weak stereo broadcasts).
Cannot raise the volume on		If the Speaker option is set to Off and the Audio Out option is set to Fixed (in
external audio speakers		order to output the sound to your audio system) use your audio receiver to
		adjust the sound (see page 80). Or, to use the TV remote control, set the
		Audio Out option to Variable.
		To turn on the TV speakers, set the Speaker option to On (see page 80).

General

Problem	Pos	sible Remedies
How to reset TV to factory settings		Turn on the TV. While holding down the RESET button on the remote control, press the POWER button on the TV. (The TV will turn itself off, then back on again.) Release the RESET button.
How to restore Video settings to factory settings	; 🔲	Press the RESET button on the remote control while in the Video Menu (see page 78).
How to restore Audio settings to factory settings		Press the RESET button on the remote control while in the Audio Menu (see page 80).
Cannot cycle through the other video equipment connected to the TV		Be sure the Video Label option is not set to Skip (see page 90).
Cannot operate Menu		If a menu option appears in gray, this indicates that the TV is in a state in which the menu option is not available.
Lost password		In the password screen (see page 86), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.
TV makes "popping" sound when turned on		This is a normal sound that results from the TV automatically degaussing each time it is turned on.
LED on front panel is lit		The STAND BY LED (see page 13) blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service.
		The TIMER LED (see page 13) indicates that the timer is set (page 91). When the timer is set, this LED will remain lit even when the TV is turned off.
Digital cable box does not work	<u> </u>	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 on pages 26-27, you must use a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.

Specifications

Picture Tube	FD Trinitron® tube	FD Trinitron [®] tube		
Antenna	75 ohm external terminal fo	75 ohm external terminal for VHF/UHF		
Television System	NTSC, American TV Standard			
Channel Coverage	VHF	2-13		
	UHF	14-69		
	CATV	1-125		
Power Requirements	120V, 60 Hz			
Inputs/Outputs				
DVI-HDTV	1 terminal, 3.3V T.M.D.S., 50	O ohms		
	The DVI-HDTV input terminot intended for use with pe	inal is compliant with the EIA-861 standard and is ersonal computers.		
Video (IN)	4 total (1 on front panel)	1 Vp-p, 75 ohms unbalanced, sync negative		
S Video (IN)	3 total (1 on front panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms		
Audio (IN)	7 total (1 on front panel)	500 mVrms (100% modulation) Impedance: 47 kilohm		
Component Video Input	2 (Y, P _B , P _R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative; P _B : 0.7 Vp-p, 75 ohms P _R : 0.7 Vp-p, 75 ohms		
CONTROL S (IN/OUT)	1			
Variable/Fixed Audio (OUT)	1	More than 408 mVrms at the maximum volume setting (Variable) More than 408 mVrms (Fixed) Impedance (output): 2 kilohms		
Supplied Accessories	Remote Control	RM-Y188		
11	AA (R6) Batteries	2 supplied for remote control		
Visible Screen Size	KV-30XBR910	30 in (762 mm) picture measured diagonally		
	KV-34XBR910	34 in (863.6mm) picture measured diagonally		
Actual CRT Size	KV-30XBR910	32 in (812.8 mm) picture measured diagonally		
	KV-34XBR910	36 in (914.4 mm) picture measured diagonally		
Speaker Output	7.5 W x 2 + 15 W subwoofer	, , , ,		
Dimensions (W x H x D)	KV-30XBR910	898 x 607 x 563 mm		
,		(35 3/8 x 23 7/8 x 22 1/8 in)		
	KV-34XBR910	994 x 652 x 605 mm		
		(39 1/8 x 25 5/8 x 23 7/8 in)		
Mass	KV-30XBR910	70 kg (155 lbs)		
	KV-34XBR910	90 kg (199 lbs)		
Power Consumption	In Use	280 W		
	In Standby	1 W		

Design and specifications are subject to change without notice.

Optional Accessories

- □ A/V Cable (VMC-810/820/830 HG)
- □ Audio Cable (RKC-515HG)
- $\ \square$ Component Video Cable (VMC-10/30 HG)
- □ TV Stand for KV-30XBR910: SU-30XBR1 TV Stand for KV-34XBR910: SU-34XBR1

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