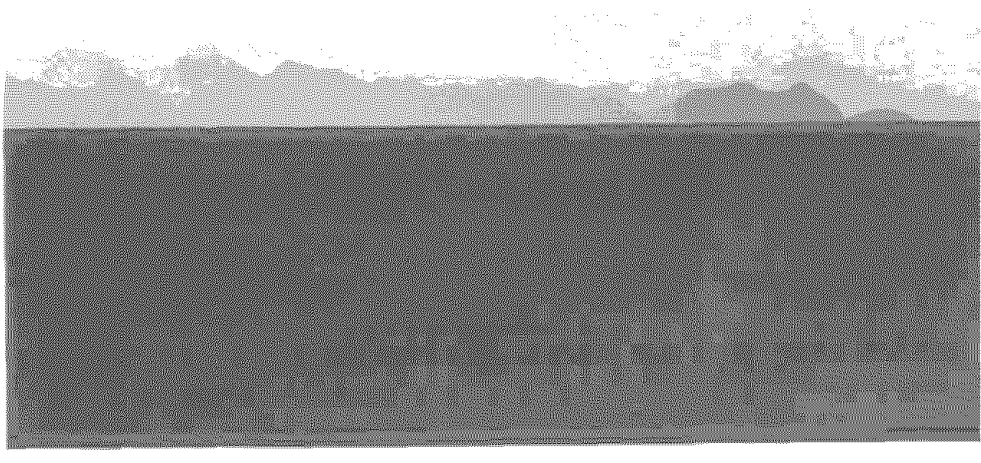


# WARNING

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

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

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

## Note to the CATV Installer

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

## SAFETY PRECAUTIONS

- Operate the TV only on 120 V AC.
- One blade of the power plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object falls into the TV, unplug it and have it checked by qualified personnel before operating it further.

## CAUTION

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

**To reduce the risk of electric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.**

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

## NOTIFICATION

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

- Reorient or relocate the receiving antennas.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Protecting the TV

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

## Note on Caption Vision

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

## Owner's Record

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

## Trademarks and Copyrights

ENERGY STAR is a registered mark.

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

**WOW, SRS, and the (◉)® symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.**

**Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP 4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.**

**WEGA, FD Trinitron, Memory Stick, Steady Sound, ClearEdge VM, and Caption Vision are registered 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.

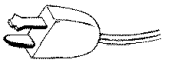
## Use

### 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.

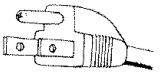
### Grounding or Polarization

This set may be equipped with a polarized alternating current line plug (a plug having one blade wider than other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



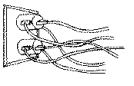
### For the set with a three-wire grounding type AC plug

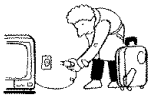
This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



### Overloading

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





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

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

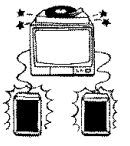
### Object and Liquid Entry

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

### Attachments

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

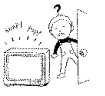
Do not place any objects, especially heavy objects, on top of the set. The object may fall from the set, causing injury.



### Cleaning

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

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



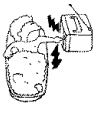
### Installation

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

Install the set on a stable, level surface.

### Water and Moisture

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



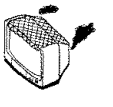
### Accessories

Do not place the set on an unstable cart, stand, tripod, bracket, table, or shelf. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of TV. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

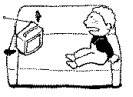
### Ventilation

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

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



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

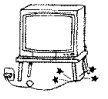


- Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

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

## Power-Cord Protection

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



## Antennas

## Outdoor Antenna Grounding

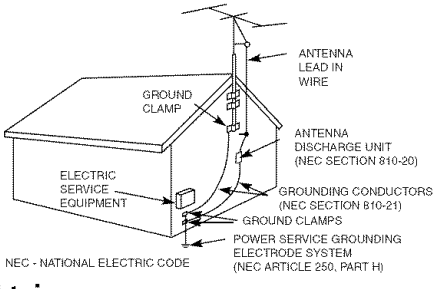
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

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

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

## Antenna Grounding According to the NEC

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




## Lightning

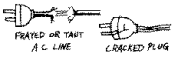
For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

## Service

## Damage Requiring Service

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

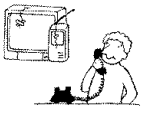
- When the power cord or plug is damaged or frayed.



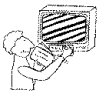

- If liquid has been spilled into the set or objects have fallen into the product.

- If the set has been exposed to rain or water.

- If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.



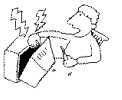
- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.



- When the set exhibits a distinct change in performance — this 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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# Introduction

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

## Introducing the FD Trinitron WEGA® Features

Some of the features you will enjoy include:

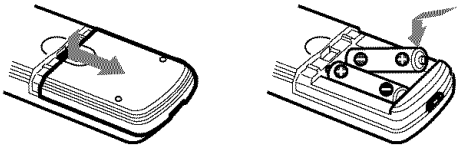
- **FD Trinitron Flat CRT** — Delivers a picture with uncompromising accuracy and outstanding image detail via a technologically advanced tube.
- **Memory Stick® Viewer** — Lets you watch digital photo (JPEG) files that are stored on Memory Stick media.
- **Y, $P_B$, $P_R$ Inputs** — Provides component video inputs for superior picture quality (480i only).
- **WOW** — Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is directly activated to further enhance the audio performance.
- **BBE** — Gives sound more impact by using audio technology to compensate for phase effects in speakers.
- **SRS** — Produces a dynamic three-dimensional sound for stereo programs.
- **Parental Control (V-Chip)** — Helps parents monitor what their children watch on TV by establishing rating limits.
- **ClearEdge VM** — Sharpens picture definition to give objects a crisp, clean edge.
- **Favorite Channels** — Provides instant access to your favorite channels with the touch of a button.
- **Info Banner** — Displays the name and the remaining time of the current program viewed, if available.
- **Universal Remote Control** — Operates your connected cable box, VCR, digital satellite receiver, DVD player, or DVD/VCR combination unit.
- **Energy Star®** — Meets the Energy Star guidelines for energy efficiency.
- **Front Panel Controls** — Allows access to the on-screen menus without the use of a remote control.
- **Front A/V Inputs** — Lets you quickly connect video games, camcorders, or stereo/mono equipment.

## About this Manual

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

## Batteries for the Remote Control

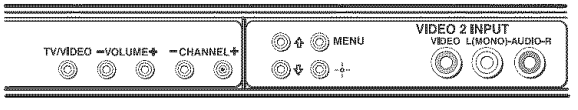
Insert two AA (R6) batteries (supplied) into the remote control using the following illustration as a guide.



Under normal conditions, batteries will last up to six months. If the remote control does not operate properly, the batteries might be worn out.

If you will not be using the remote control for an extended period of time, remove the batteries to avoid possible damage from battery leakage.

## Front Panel Menu Controls



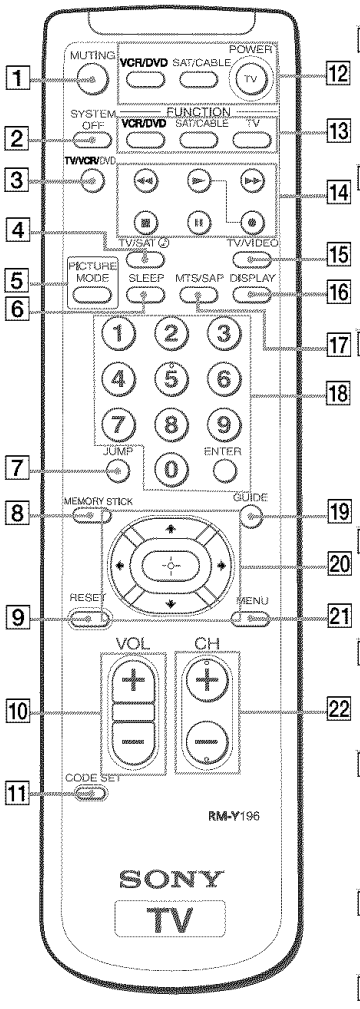

The front Audio/Video panel controls allow you to access the menu without the remote control.

- Press MENU to display the on-screen menu.
- Use the ⊕ and ⊖ buttons on the front Audio/Video panel instead of your remote control.
- Use the ⊕ button on the front Audio/Video panel to navigate through the menus, then select an item. The front panel controls also allow you to change your channels (CH+/-), adjust the volume (VOL +/-), and change video inputs.

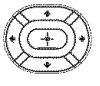
To navigate the menus with your remote control, see "Using the Menus" on page 37.

# Using the Remote Control

## Remote Control Description




| | Button | Description |
|---|---|---|
| 1 | **MUTING** | Press to turn off the sound. Press again or press VOL + to restore sound. |
| 2 | **SYSTEM OFF** | Press to turn off the equipment programmed into the remote control. See "Programming the Remote Control" on page 5. This button does not work with DVD/VCR combo units, and may not work with older Sony equipment. |
| 3 | **TV/VCR/DVD** | Press to change the VHF/UHF output of the VCR (or DVD/VCR combination unit). If you have a non-Sony VCR or DVD, you will need to program the remote control to recognize your VCR. For details, see "Programming the Remote Control" on page 5. |
| 4 | **TV/SAT** | Press to switch between the TV and SAT (satellite) inputs when in SAT FUNCTION mode. |
| | ♪ | Press for a direct selection of Effect settings (Simulated, SRS, WOW, Off) when the remote is in TV FUNCTION mode. See "Using the Audio Menu" on page 39 for details. |
| 5 | **PICTURE MODE** | Press repeatedly to step through the available video picture modes: Vivid, Standard, Movie, and Pro. Also available in the Video menu. See "Using the Video Menu" on page 38 for details. |
| 6 | **SLEEP** | Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until Sleep Off appears. |
| 7 | **JUMP** | Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that you selected. JUMP will not work if any FUNCTION Mode (VCR/DVD, SAT/CABLE, TV) is activated. |
| 8 | **MEMORY STICK** | Press to enter or exit the Memory Stick Viewer. For details, see "Using the Memory Stick Viewer" on page 25. |
| 9 | **RESET** | Press to return to factory settings while in an on-screen menu. |
| 10 | **VOL (volume)** | Press (+) or (-) to adjust the volume. |
| 11 | **CODE SET** | Press to program your remote control to operate connected video equipment. See "Programming the Remote Control" on page 5. |

| | Button | Description |
|---|---|---|
| 12 | **POWER buttons** | Press to turn on and off the TV and other audio/video equipment you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 5. |
| 13 | **FUNCTION buttons** | Press to select the equipment (VCR/DVD, SAT/CABLE, TV) that you want to operate with the remote control. The indicator (LED) lights up momentarily when pressed to show which device the remote control is operating. |
| 14 | **VCR/DVD (operating)** | Press to operate your VCR or DVD. The VCR or DVD must be programmed into the remote control. For instructions, see "Programming the Remote Control" on page 5. |
| | **● and ► (to record)** | Press the ● button and the ► button at the same time to record programs with your VCR. The remote control must be programmed before you can use REC. |
| | ◄◄ | Rewind. |
| | ►► | Fast-forward. |
| | ► | Play. |
| | ■ | Stop. |
| | ❚❚ | Pause. Press again to resume normal playback. |
| 15 | **TV/VIDEO** | Press to cycle through available video inputs. |
| 16 | **DISPLAY** | Press once to display the current time (if set) and the program status such as channel number, Channel Label (if set), video input, Video Label (if set), and Info Banner (if set). Press again to turn off the display. |
| 17 | **MTS/SAP** | Press to cycle through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP (Second Audio Program), and Mono. |
| 18 | **0-9 and ENTER** | Press to change channels. The channel changes after two seconds. |
| 19 | **GUIDE** | Press to display the program guide of your satellite receiver. |
| 20 |  | Press the arrow buttons to move the cursor in the on-screen menus. Press the center button to select an option.<br>To use Favorite Channels, exit all menus and press ⊂⊃. Press ⇧ or ⇩ to move the cursor to the desired channel number and press ⊂⊃. See "Favorite Channels" on page 41 for details. |
| 21 | **MENU** | Press to display the on-screen menu. Press again to exit the menu at any time. |
| 22 | **CH (channel)** | Press to change channels. To scan rapidly through the channels, press and hold down the CH+ or CH- button. |

If you lose your remote control, see page 52.

# Programming the Remote Control

If you have video equipment other than Sony brand (or if you have a Sony DVD/VCR combination unit) that you want to control with the TV's remote control, use the following procedure to program the remote control.

**1** Check the list of "Manufacturer's Codes" on page 6 and find the three-digit code number for the manufacturer of your component. If more than one code number is listed, use the number listed first.

**2** Press CODE SET.

The VCR/DVD and SAT/CABLE FUNCTION button will flash when you press CODE SET.

**3** Press VCR/DVD or SAT/CABLE FUNCTION button to indicate the type of component you want to program with the remote control.

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

**4** Use the 0-9 buttons to enter the three-digit manufacturer's code number.

**5** Press ENTER.

**6** To check if the code number works, aim the TV's remote control at the component and press the green POWER button (VCR/DVD, SAT/CABLE) that corresponds with that component. If it responds, you are done. If not try using another code listed for that manufacturer.

If you have problems programming your remote control, see "Troubleshooting" on page 52.

## Manufacturer's Codes

### VCRs

| Manufacturer | Code |
|---|---|
| Sony | 301, 302, 303 |
| Admiral (M. Ward) | 327 |
| Aiwa | 338, 344 |
| Audio Dynamic | 314, 337 |
| Broksonic | 319, 317 |
| Canon | 309, 308 |
| Citizen | 332 |
| Craig | 302, 332 |
| Criterion | 315 |
| Curtis Mathes | 304, 338, 309 |
| Daewoo | 341, 312, 309 |
| DBX | 314, 336, 337 |
| Dimensia | 304 |
| Emerson | 319, 320, 316, 317, 318, 341 |
| Fisher | 330, 335 |
| Funai | 338 |
| General Electric | 329, 304, 309 |
| Go Video | 322, 339, 340 |
| Goldstar | 332 |
| Hitachi | 306, 304, 305, 338 |
| Instant Replay | 309, 308 |
| JC Penney | 309, 305, 304, 330, 314, 336, 337 |
| JVC | 314, 336, 337, 345, 346, 347 |
| Kenwood | 314, 336, 332, 337 |
| LXI (Sears) | 332, 305, 330, 335, 338 |
| Magnavox | 308, 309, 310 |
| Marantz | 314, 336, 337 |
| Marta | 332 |
| Memorex | 309, 335 |
| Minolta | 305, 304 |
| Mitsubishi/ MGA | 323, 324, 325, 326 |
| Multitech | 325, 338, 321 |
| NEC | 314, 336, 337 |
| Olympic | 309, 308 |
| Optimus | 327 |
| Panasonic | 308, 309, 306, 307 |
| Pentax | 305, 304 |
| Philco | 308, 309 |
| Philips | 308, 309, 310 |
| Pioneer | 308 |
| Quasar | 308, 309, 306 |
| RCA/PROSCAN | 304, 305, 308, 309, 311, 312, 313, 310, 329 |
| Realistic | 309, 330, 328, 335, 324, 338 |
| Sansui | 314 |
| Samsung | 322, 313, 321 |
| Sanyo | 330, 335 |
| Scott | 312, 313, 321, 335, 323, 324, 325, 326 |
| Sharp | 327, 328 |
| Shintom | 315 |
| Signature 2000 (M. Ward) | 338, 327 |
| SV2000 | 338 |
| Sylvania | 308, 309, 338, 310 |
| Symphonic | 338 |
| Tashiro | 332 |
| 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/VCR Combination Units

| Manufacturer | Code |
|---|---|
| Sony | 601 |
| Broksonic | 605 |
| JVC | 604 |
| Panasonic | 609 |
| Samsung | 603 |
| Toshiba | 602 |

### DVD Players

| Manufacturer | Code |
|---|---|
| Sony | 751 |
| Hitachi | 758 |
| JVC | 756 |
| Magnavox | 757 |
| Mitsubishi | 761 |
| Onkyo | 762 |
| Oritron | 759 |
| Panasonic | 753 |
| Philips | 757 |
| Pioneer | 752 |
| RCA | 755 |
| Samsung | 758 |
| Toshiba | 754 |
| Zenith | 760 |

### Cable Boxes

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

### Satellite Receivers

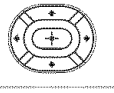
| Manufacturer | Code |
|---|---|
| Sony | 801 |
| DIRECT TV | 809 |
| Dish Network | 810 |
| Echostar | 810 |
| General Electric | 802 |
| Hitachi | 805 |
| Hughes | 804 |
| Mitsubishi | 809 |
| Panasonic | 803 |
| RCA/PROSCAN | 802, 808 |
| Toshiba | 806, 807 |

# Using your TV Remote Control with Other Equipment

## Operating a VCR

| Press | To |
|---|---|
| VCR/DVD | Activate the remote control to operate the VCR (FUNCTION button) |
| VCR/DVD | Power on/off the VCR (VCR/DVD green button) |
| CH CH ⊕⊖ or ⓪-⑨, ENTER (using tuner) | Change channels |
| ► | Play video tape |
| ■ | Stop |
| ◄◄ or ►► | Rewind or Fast - forward a video tape |
| ▮▮ | Pause |
| ● and ► (Simultaneously) | Record |
| TV/VIDEO | Switch between VCR and TV inputs |

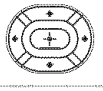
## Operating a DVD Player

| Press | To |
|---|---|
| VCR/DVD | Activate the remote control to operate the VCR (FUNCTION button) |
| VCR/DVD | Power on/off the DVD (VCR/DVD green button) |
| ⓪-⑨, ENTER | Select chapters |
| CH CH ⊕⊖ | Search chapters forward or backward |
| ► | Play DVD |
| ■ | Stop |
| ▮▮ | Pause |
| ◄◄ or ►► | Search the picture forward or backward during playback |
| MENU | Display the DVD menu |
|  | Use the arrow buttons to move the cursor in the menu, and the center button to select an option |
| TV/VIDEO | Switch between VCR and TV inputs |

## Operating a Cable Box or Satellite Receiver

| Press | To |
|---|---|
| SAT/CABLE | Activate the remote control to operate the cable box or satellite receiver (FUNCTION button) |
| SAT/CABLE | Power on/off the cable box or satellite receiver (SAT/CABLE green button) |
| CH + CH − or 0-9, ENTER (using tuner) | Change channels |
| JUMP | Change back to previous channel |
| DISPLAY | Display channel number (satellite receiver) |
| GUIDE | Display SAT Guide (satellite receiver) |
| MENU | Display SAT menu (satellite receiver) |
| | Use the arrow buttons to move the cursor in the menu, and the center button to select an option (satellite receiver) |
| TV/SAT | Press to switch between the TV and SAT inputs (satellite receiver) |

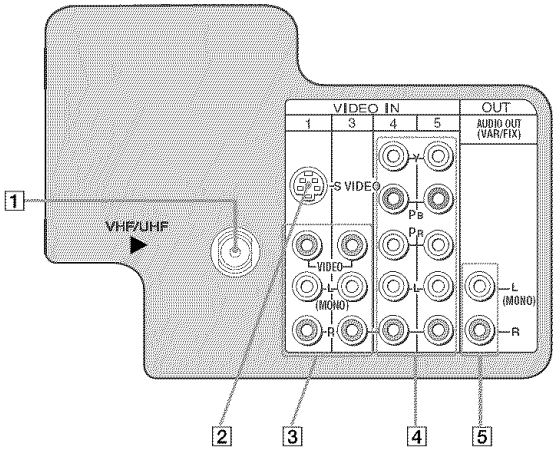
## Operating a DVD/VCR Combination Unit

| Press | To |
|---|---|
| VCR/DVD | Activate the remote control to operate the DVD/VCR (FUNCTION button) |
| VCR/DVD | Power on/off the DVD/VCR Combination unit (VCR/DVD green button) |
| TV/VCR/DVD | When the VCR is not playing, TV/VCR/DVD switches between the DVD player and VCR's tuner |
| MENU | Display the DVD Menu |
| ▶ | Play |
| ■ | Stop |
| ❚❚ | Pause |
| ◀◀ or ▶▶ | Rewind or fast-forward a video tape (VCR)<br>Search the picture forward or backward during playback (DVD) |
|  | Use the arrow buttons to move the cursor in the menu, and the center button to select an option (DVD) |
| ▶ and ■ (Simultaneously) | Record (VCR) |
| CH + CH − or 0-9, ENTER (using tuner) | Change channels (VCR) |

# Connecting Your TV

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

## TV Rear Panel



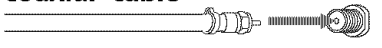

| Jack | Description |
|---|---|
| 1 **VHF/UHF** | This input connects to your VHF/UHF antenna or cable. |
| 2 **S VIDEO** | This input connects to the S VIDEO OUT jack on your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than the VHF/UHF jacks or the video input jack. S VIDEO does not provide sound, so you still must connect the audio cables. |
| 3 **VIDEO/AUDIO L(MONO), R** | This input connects to the AUDIO/VIDEO output jacks on your VCR or other video equipment. A third video input jack (VIDEO 2) is located on the front panel of the TV. These AUDIO/VIDEO input jacks provide better picture quality than the VHF/UHF jack. |
| 4 **Y, $P_B$, $P_R$/ L, R** | This input connects to the component video Y, $P_B$, $P_R$, and AUDIO L, R jacks on your DVD player or digital set-top box (480i only). |
| 5 **AUDIO OUT (VAR/FIX) L(MONO), R** | This jack connects to the AUDIO input jacks on your audio equipment. You can listen to your TV's audio through your stereo system. |

# Basic Connections

## TV with Cable, Indoor, or Outdoor Antenna

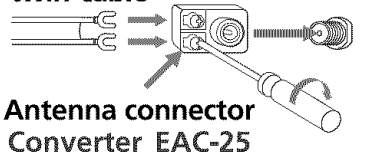
Depending on the cable system available in your home, choose one of the connections below:

**A** **VHF only or VHF/UHF or Cable** — **75-ohm coaxial cable** — **(Rear of TV) VHF/UHF**



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

**B** **VHF only or UHF only or VHF/UHF** — **300-ohm lead twin cable** — **(Rear of TV) VHF/UHF**



**Antenna connector**
**Converter EAC-25 or commercially available converter (not supplied)**

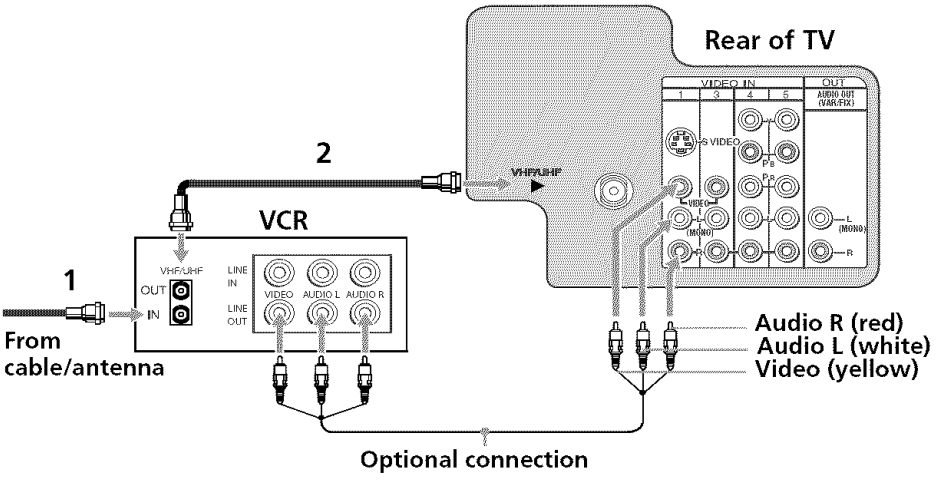
Converter EAC-25 is commercially known as a 300-to-75 ohm antenna adapter.

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

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

# Connecting Additional Equipment

## Connecting a TV and VCR




**1** Connect the coaxial cable from your TV antenna or cable service to the IN jack on your VCR.

**2** Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF jack on the TV.

### Optional connection

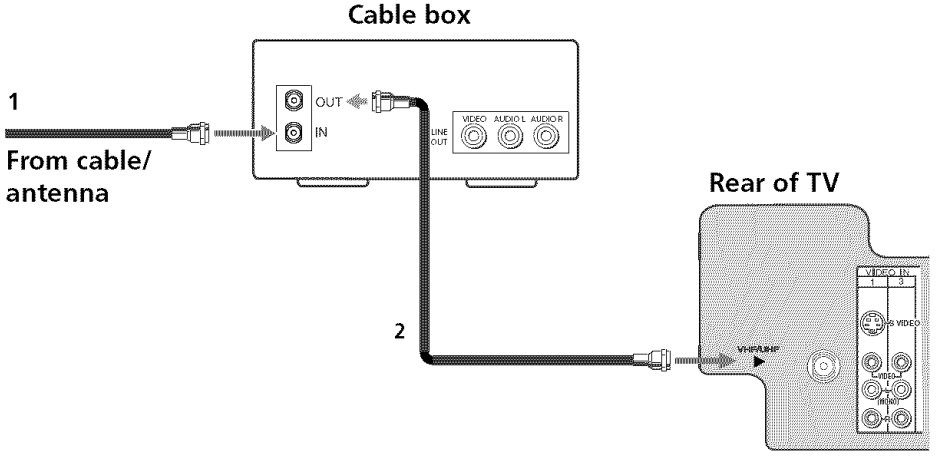
- If your VCR is equipped with video outputs, you can get better picture quality by connecting audio/video cables (not supplied) from AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.
- For better picture quality, use S VIDEO instead of the yellow video cable. S VIDEO does not provide sound,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

### Using your TV with this connection

- Program your Sony remote control to operate your VCR (see page 5).
- To activate your remote, press VCR/DVD (FUNCTION button) to operate your VCR. In order to do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 41).
- Press TV/VIDEO repeatedly to switch between VCR input (VIDEO input) and VHF/UHF (local channels).

## TV and Cable Box

Some cable TV systems use scrambled or encoded signals that require a cable box to view all channels. If you subscribe to such type of service, use this connection.




**1** Connect the coaxial cable from your cable service to the IN jack on your cable box.

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

### Using your TV with this connection

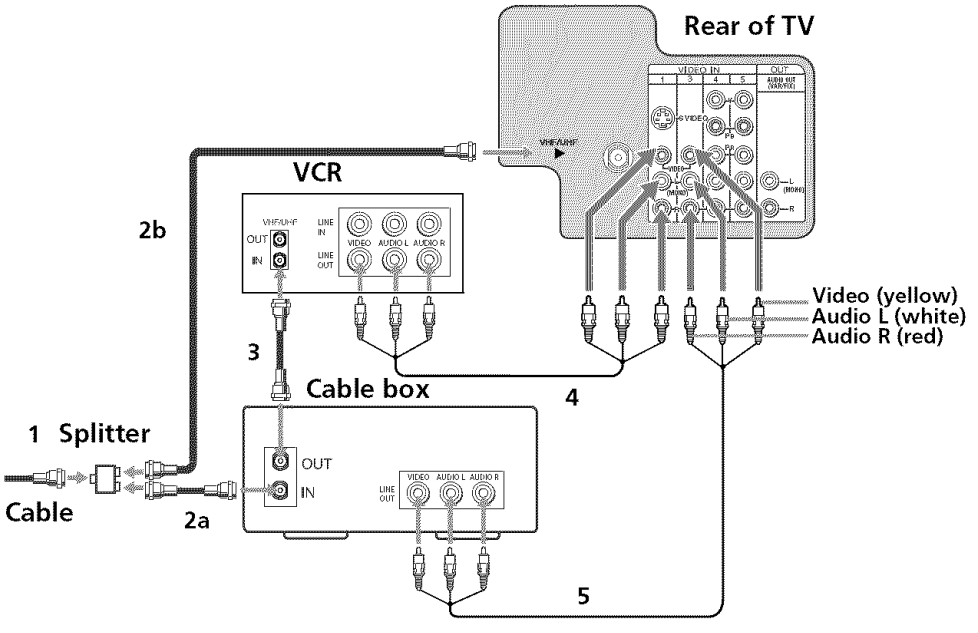
- Program your Sony remote control to operate your cable box (see page 5).
- To activate your remote, press SAT/CABLE (FUNCTION button) to operate your cable box. Then use the ⓪-⑨ buttons or CH+/- buttons to change the channels. In order to do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4
(see page 41).

## Connecting a TV, VCR, and Cable Box

DIGITAL CABLE BOX USERS: If you are connecting a digital cable box, you will need a special bi-directional splitter (5-900 Mhz minimum) that is designed to work with your digital cable box.

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

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




**1** Connect the single input jack of the splitter (not supplied) to your incoming cable connection.

**2** Using coaxial cables (not supplied), connect the two output jacks of the splitter (not supplied) to:

**a)** the IN jack on your cable box

**b)** the VHF/UHF jack on the TV

**3** Using a coaxial cable (not supplied), connect the OUT jack on your cable box to the IN jack on your VCR.

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

**5** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your cable box to AUDIO/VIDEO IN on your TV.

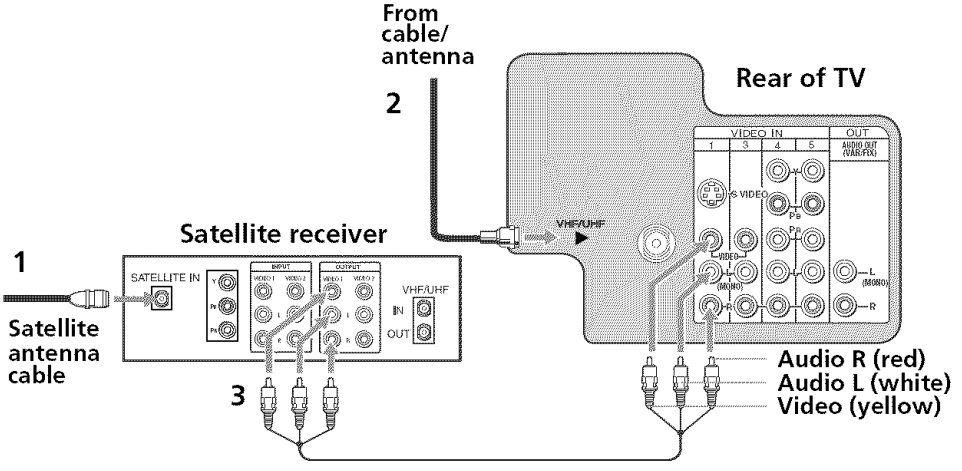
### Optional connection

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

### Using your TV with this connection

- Program your Sony remote control to operate your VCR or cable box (see page 5).
- To activate your remote, press VCR/DVD (FUNCTION button) to operate your VCR or SAT/CABLE (FUNCTION button) to operate your cable box. In order to do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 41).
- Press TV/VIDEO repeatedly to switch between VCR input (VIDEO input), VHF/UHF (local channels or unscrambled), or cable box (cable system or scrambled channels).

## Connecting a TV and Satellite Receiver




**1** Connect the cable from your satellite antenna to SATELLITE IN on your satellite receiver.

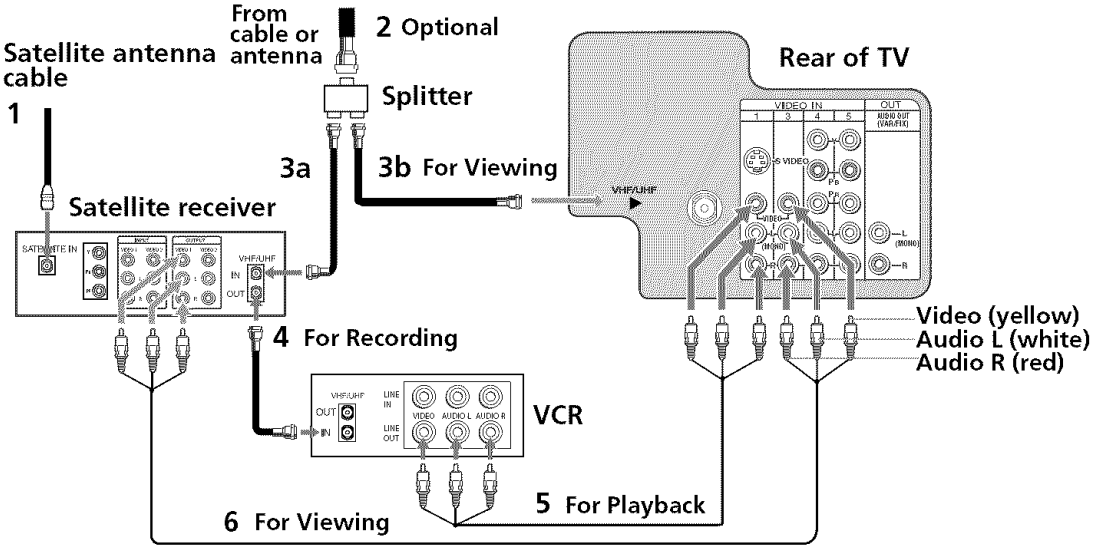
**2** Connect the coaxial cable from your cable service or antenna to the VHF/UHF jack on your TV.

**3** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to AUDIO/VIDEO IN on your TV.

### Using your TV with this connection

- Program your Sony remote control to operate your satellite receiver (see page 5).
- To activate your remote, press SAT/CABLE (FUNCTION button) to operate your satellite receiver. See page 7 for instructions on how to operate other functions.
- Press TV/VIDEO repeatedly to switch to satellite receiver input (VIDEO input).

## Connecting a TV, VCR, Cable/Antenna, and Satellite Receiver using Composite Video (VIDEO/AUDIO L(MONO), R)




**1** Connect the cable from your satellite antenna to SATELLITE IN on your satellite receiver.

**2** Connect the single input jack of the splitter (not supplied) to your incoming cable/antenna (optional connection to view local channels or broadcast).

**3** Using coaxial cables (not supplied), connect the two output jacks of the splitter (not supplied) to:

**a)** the IN jack on your satellite receiver

**b)** the VHF/UHF jack on the TV

**4** Using a coaxial cable (not supplied), connect the OUT jack on your satellite receiver to the VHF/UHF IN on your VCR.

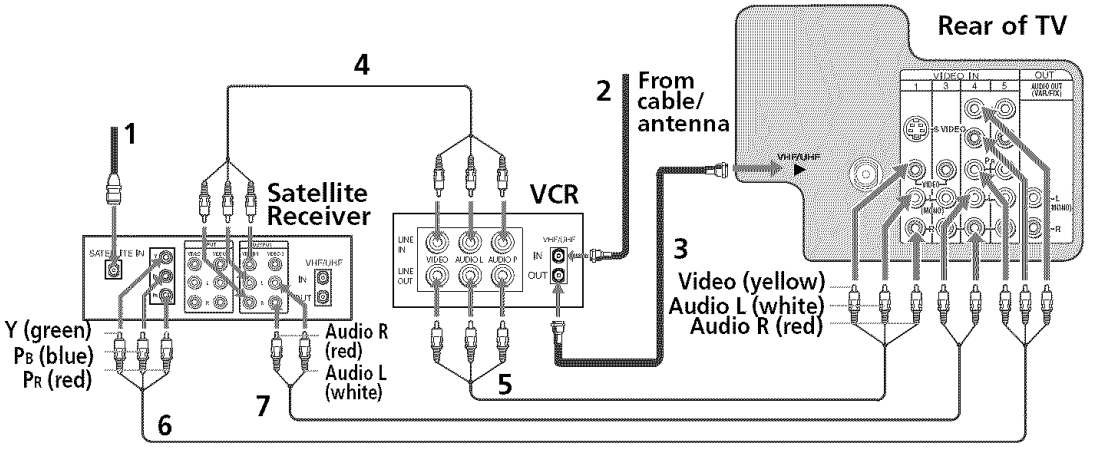
**5** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.

**6** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to AUDIO/VIDEO IN on your TV.

### Using your TV with this connection

- Program your Sony remote control to operate your VCR or satellite receiver (see page 5).
- To activate your remote, press VCR/DVD (FUNCTION button) to operate your VCR or SAT/CABLE (FUNCTION button) to operate your satellite receiver.
- Press TV/VIDEO repeatedly to switch between VCR input (VIDEO input), VHF/UHF (local channels or unscrambled), or your cable box (cable system or scrambled channels).

## Connecting a TV, VCR, and Satellite Receiver using Component Video (Y, $P_B$, $P_R$)




**1** Connect the coaxial cable from your satellite antenna to SATELLITE IN on the satellite receiver.

**2** Connect the coaxial cable from your cable service or antenna to the IN jack on your VCR.

**3** Using a coaxial cables (not supplied), connect the OUT jack on your VCR to the VHF/UHF jack on your TV.

**4** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to AUDIO/VIDEO IN on your VCR.

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

**6** Using component video cables (not supplied), connect Y, $P_B$, $P_R$ OUT on your satellite receiver to Y, $P_B$, $P_R$ IN on your TV.

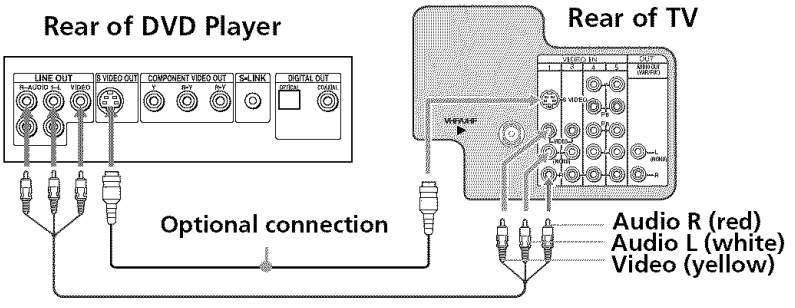
**7** Connect AUDIO OUT on your satellite receiver to AUDIO IN on your TV.

### Using your TV with this connection

- Program your Sony remote control to operate your VCR or satellite receiver (see page 5).
- Turn on your VCR to enable your satellite receiver to work with this connection.
- To activate your remote, press VCR/DVD (FUNCTION button) to operate your VCR or SAT/CABLE (FUNCTION button) to operate your satellite receiver.
- Press TV/VIDEO repeatedly to switch between VCR input (VIDEO input), VHF/UHF (local channels or unscrambled), or your cable box (cable system or scrambled channels).

## Connecting a DVD Player using Composite Video (VIDEO/AUDIO L(MONO),R)

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

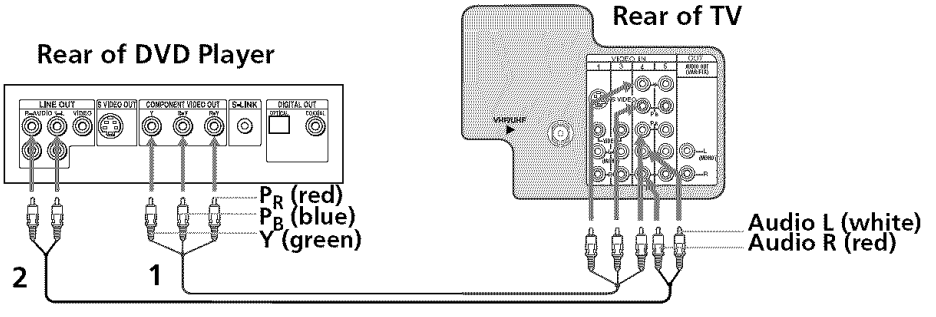



### Optional connection

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

## Connecting a DVD Player using Component Video (Y, PB, PR/R, L)

If your DVD player is equipped with component video outputs (Y, PB, PR), you can improve the picture quality by using component video cables (480i only).




**1** Make sure your DVD player is set up (see page 51). Using component video cables (not supplied), connect Y, PB, PR OUT on your DVD player to Y, PB, PR IN on your TV.

**2** Connect AUDIO OUT on your DVD player to AUDIO IN on your TV.

The Y, PB, PR outputs on your DVD player are sometimes labeled Y, CB, and CR or Y, B-Y, and R-Y. If so, connect the cables to like colors.

### Using your TV with this connection

- Program your Sony remote control to operate your DVD (see page 5).
- To activate your remote, press VCR/DVD (FUNCTION button) to operate your DVD.
- Press TV/VIDEO repeatedly to switch to the DVD player's input (VIDEO input).

## Connecting an Audio System

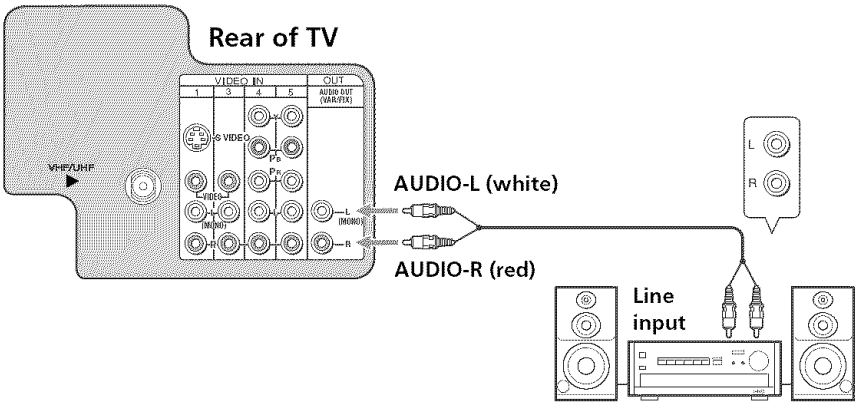
If you are connecting a Home Theater, please refer to your Home Theater manual for additional connections.

1 Using audio/video cables (not supplied), connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE2) on your stereo.

2 Set the Speaker option to Off. For more instructions, see "Using the Audio Menu" on page 39.

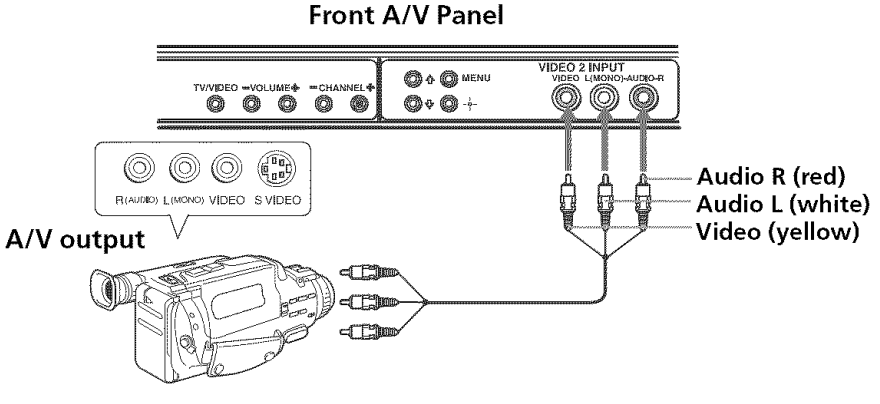
3 After you connect the audio system, you can control the volume level from your TV or audio system.

- To control the volume from the TV, use the front panel controls or the VOL +/- buttons on the remote.
- To control the volume through the connected audio system, open the Audio Out option on the Audio Menu and select Fixed. For more instructions, see "Using the Audio Menu" on page 39.

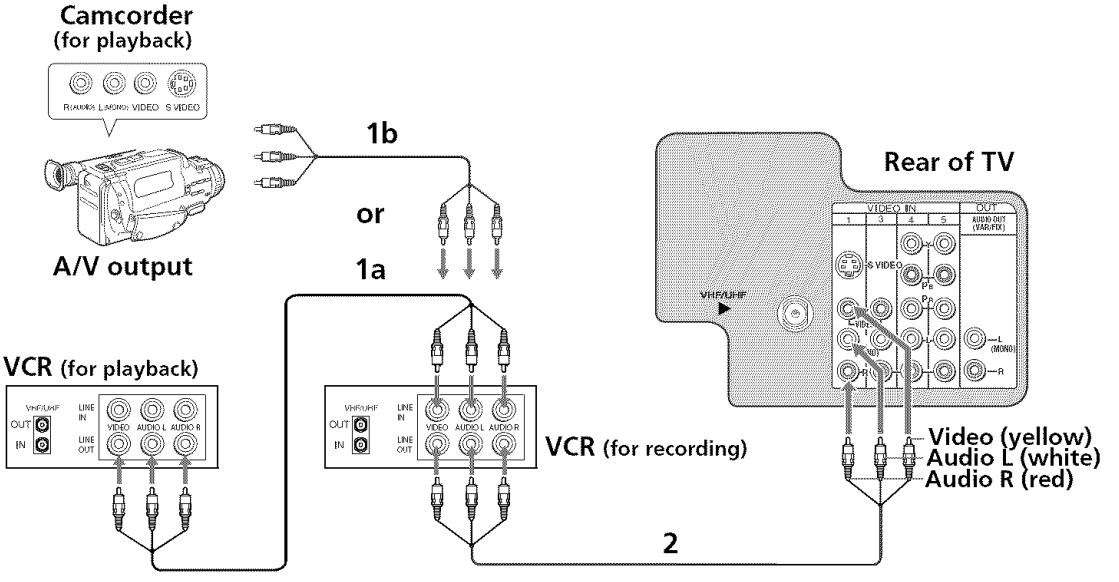



## Connecting a Camcorder (for playback)

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



## Connecting for Video Tape Editing (VCR and Camcorder)




**1** For video tape editing, connect the VCR to the following sources:

- If you are connecting a VCR, use audio/video cables (not supplied) to connect AUDIO/VIDEO OUT on your first VCR to AUDIO/VIDEO IN on your second VCR (option 1a).
- If you are connecting a camcorder, use audio/video cables (not supplied) to connect AUDIO/VIDEO OUT on your camcorder to AUDIO/VIDEO IN on your VCR (option 1b).

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

### Using your TV with this connection

- Program your Sony remote control to operate your VCR (see page 5).
- To activate your remote, press VCR/DVD (FUNCTION button) to operate your VCR. See page 7 for instructions on how to operate other functions.

# Using Basic Functions

## Setting Up the TV

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

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

**1** Press POWER to turn on the TV. The Initial Setup screen appears.

**2** Press CH + on the remote control or on the TV front panel to start Auto Program, or press CH – to exit.

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

### To perform Auto Program again

**1** Press MENU.

**2** Press → to highlight Channel Menu.

**3** Press ↓ to highlight Cable. Press ⊕ to select.

**4** Press ↑ or ↓ to highlight On or Off according to how you connected your TV. Press ⊕ to select.

**5** Press ↓ to highlight Auto Program. Press ⊕ to search for channels.

**6** After Auto Program finishes, press MENU to exit.

### To reset the TV to factory settings

**1** Turn the TV on.

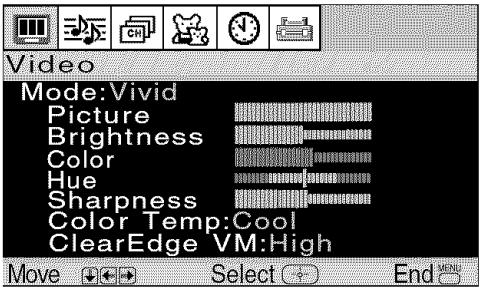
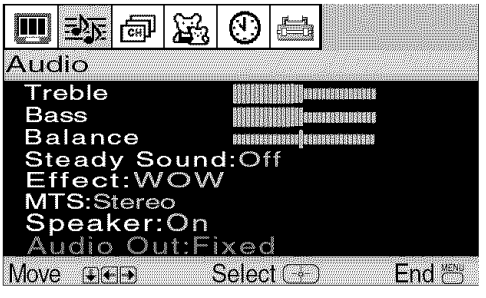
**2** Hold down RESET on the remote control.

**3** Press and release the POWER button on the TV front panel. The TV will turn itself off, then back on.

**4** Release RESET.

# Quick Start to the Menus

The following settings are available in your on-screen menus. For more details on how to use the menus, see "Using the Menus" on page 37.

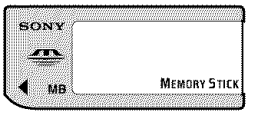
| Menu | Allows you to |
|---|---|
|  | Adjust your picture settings. |
|  | Change your audio settings. |
| | Customize your channel settings. |
| | Set rating limits on your TV based on program rating or content. |

| Menu | Allows you to |
| --- | --- |
| | Set the clock on your TV and program scheduled viewing using Timer 1 and Timer 2. |
| | Select closed captioning options (Caption Vision), display the name of the current program and its remaining time (Info Banner), label video inputs, adjust tilt correction, enhance DVD picture resolution (16:9 Enhanced), or select menu language. |

# 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 digital photos (JPEG files) that are stored on Memory Stick media.

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

Memory Stick Viewer only supports 128 Kbps fixed rate MP3 files.

For more information about handling Memory Stick media, see "Notes on Using Memory Stick Media" on page 35.

### Features

With the Memory Stick Viewer, you can:

- View photo (JPEG) files in a thumbnail index or Slide Show
- Set customized Slide Show options, including background audio
- Lock (protect) or delete files on the Memory Stick

### Memory Stick Compatibility

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

- Memory MagicGate
- Memory Stick Media
- Memory Stick Duo Media
- Memory Stick PRO Media
- Memory Stick PRO Duo Media
- Memory Stick Media with Memory Select Function

The Memory Stick slot on your TV has been designed to accommodate standard and compact versions of Memory Stick. It is not necessary to use an adapter for Memory Stick Duo and Memory Stick PRO Duo. If you use an adapter it may damage the adapter and Memory Stick slot.

### About Memory Stick PRO Media

Memory Stick PRO media features vary by and are dependent upon the design of host hardware devices. Memory Stick PRO in this television has been tested to support up to 1 GB media capacity and does not support high-speed transfer, MagicGate copyright protection technology, or access control security features.

## Memory Stick Functionality

Sony cannot guarantee or assure the Memory Stick functionality on this television in the following cases:

- You are using non-Sony brand Memory Stick media.
- You are using audio clips that have been processed on a computer.
- You are using files that were modified on a computer, obtained from the internet, or from a printed film processing center.
- The Memory Stick has been formatted on a personal computer.

Sony recommends that you back up all data stored on Memory Stick media prior to use with the TV's Memory Stick Viewer, to avoid any potential data loss. Sony cannot accept responsibility in the event that data recorded to Memory Stick media is lost or damaged. For certain non-Sony brand Memory Stick media, you can view images, but you cannot rotate, delete or protect/unprotect images on the television. This is a result of the unique file directory structure on these particular flash memory media and is not malfunction of the television.



## File Compatibility

The Memory Stick Viewer is compatible with JPEG images taken with Sony digital still cameras. 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<br>.jpeg |

## Trademark Information

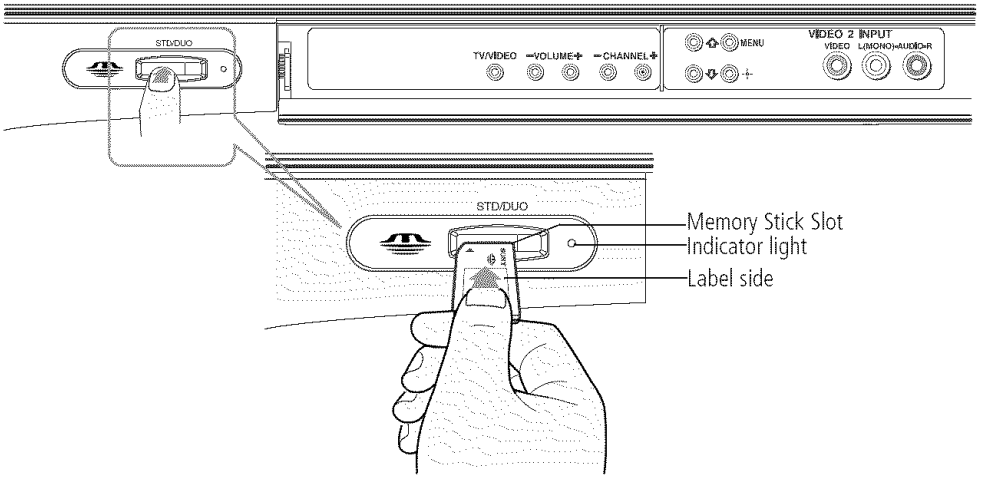
Memory Stick, Memory Stick PRO, Memory Stick Duo, Memory Stick PRO Duo and MagicGate are trademarks of Sony Corporation.

# Inserting and Removing a Memory Stick

The Memory Stick slot on your TV has been designed to accommodate standard and compact versions of Memory Stick. It is not necessary to use an adapter for Memory Stick Duo and Memory Stick PRO Duo. If you use an adapter it may damage the adapter and Memory Stick slot.

## Inserting a Memory Stick

Locate the Memory Stick slot 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 28.

## Removing a Memory Stick

### To remove a Memory Stick

**1** Check that the Memory Stick indicator light 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 indicator light 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.

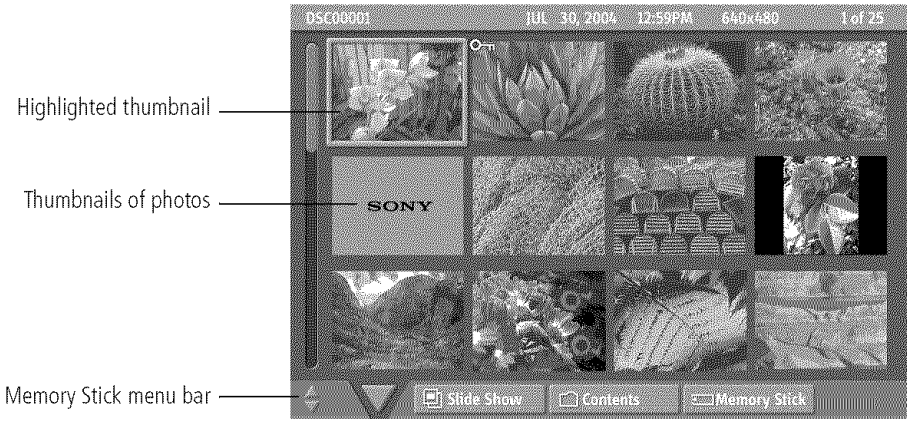
To protect small children from injury from Memory Stick media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.

# Using the Memory Stick Index

Turn on the TV and insert a Memory Stick that contains the photo files you want to view. For details, see page 27.

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

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




### About the Lock Icons on the Thumbnail Images

Indicates the thumbnail is locked. Locked files cannot be changed or deleted. For details, see "Protect" on page 32.

### About caution displays

Indicates the thumbnail (JPEG file) is not valid.

Indicates the thumbnail (JPEG file) is unreadable (full screen picture does not decode properly).

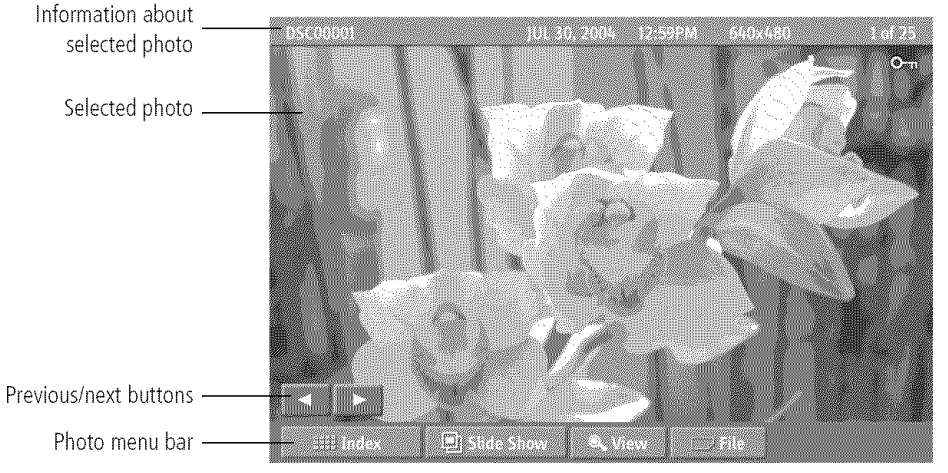
## Using the Memory Stick Index

The following describes how to use the Memory Stick Index.

| To Do This ... | Do This ... |
|---|---|
| Move the highlight to a photo thumbnail | Use the arrow buttons (⇧, ⇩, ⇨, ⇦). |
| Display the highlighted photo file full screen | Press ⊕. For details, see "Viewing Photos" on page 31 and "Memory Stick Index Menu Bar Options" on page 33. |
| Display the next page of thumbnails | 1 Use the ⇩ button to select ▼.<br>2 Use the ⇩ button to display the next page of thumbnails. |
| Display the previous or next page of thumbnails | 1 Use the ⇩ button to select ▼.<br>2 Use the ⇦ button to select ▲▼.<br>3 To go to the previous page, press the ⇧ button.<br>To go to the next page, press the ⇩ button. |
| Use the Memory Stick menu bar to access additional options | 1 Use the ⇩ button to select ▼.<br>2 Use the ⇦ or ⇨ buttons to select **Slide Show**, **Contents** or **Memory Stick**.<br>3 Use the ⇧ or ⇩ buttons to select the option you want to change.<br>For details on these options, see "Memory Stick Index Menu Bar Options" on page 33. |
| Move the highlight from the Memory Stick menu bar back to the thumbnails | 1 Use the ⇦ or ⇨ buttons to select ▼.<br>2 Use the ⇧ button to return to the currently displayed thumbnails, or ⇩ button 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 29), it appears 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 TV malfunction.

## Photo Controls

When the menu is hidden, use the arrow buttons ⇦ or ⇨ to go to the previous or next photo.

| To Do This ... | Do This ... |
|---|---|
| Display the next or previous file on the Memory Stick | Use the arrow buttons (⇧, ⇩, ⇨, ⇦) to highlight the (Previous/Next) button. Then press the ⇦ button to go to the previous file, or the ⇨ button to go to the next file. |
| Hide the Photo menu bar, displaying only the photo | With the highlight in the Photo menu bar, press the ⇩ button. |
| Display the hidden Photo menu bar | Press the ⇧ button. |
| Display the Memory Stick Index again | Use the arrow buttons (⇧, ⇩, ⇨, ⇦) to highlight Index in the Photo menu bar and press ⊕. For details on the Memory Stick Index, see page 29. |
| Access additional options in the Photo menu bar | See "Photo Menu Bar Options" on page 32. |
| 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 Use the ⇦ or ⇨ buttons to select **Slide Show**, **View**, or **File**.

2 Use the arrow buttons (⇧, ⇩, ⇨, ⇦) to select the desired option.

| Option | Description | |
|---|---|---|
| **Index** | 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 29. | |
| **Slide Show** | Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 33. | |
| **View** | **Rotate** | Allows you to rotate the photo in 90 degree increments clockwise or counterclockwise. For details, see "Using Rotate" on page 32. |
| **File** | **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 **On** or **Off**. |
| | | JPEG files that are protected are indicated by the Lock icon. |
| | **Delete** | Deletes the JPEG file from the Memory Stick.You cannot delete a JPEG file if it has been protected or the Memory Stick is locked. Select **OK** or **Cancel**. |

## Using Rotate

### To rotate a photo

1 In the Photo menu bar, use the arrow buttons (⇧, ⇩, ⇨, ⇦) to highlight **View** and press ⊕.

2 Use the arrow buttons (⇧, ⇩, ⇨, ⇦) to highlight **Rotate** and press ⊕.

3 To rotate clockwise, use the arrow buttons (⇧, ⇩, ⇨, ⇦) to highlight **Clockwise** and press ⊕.
To rotate counterclockwise, use the arrow buttons (⇧, ⇩, ⇨, ⇦) to highlight **Counterclockwise** and press ⊕.

The photo rotates 90 degrees each time you press ⊕.

# Memory Stick Index Menu Bar Options

## Slide Show Menu Options

The Slide Show menu includes the following options:

| Option | Description | |
|---|---|---|
| **Start** | Starts the slide show. | |
| ✍ The Slide Show menu is the same whether you select it from the Memory Stick Index (page 29), or Photo (page 32) menus. | | |
| **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 files will play. |
| | **Play Memory Stick** | Play all MP3 files currently listed in your screen; select **Complete List** to display MP3 files stored within folders on Memory Stick. The **Piano (Built-in music)** MP3 file will not be played. |
| | **Piano (Built-in music)** | Plays the MP3 file stored in the TV's internal memory. |
| | **Complete List** | Displays a list of all available MP3 files found on your Memory Stick. The list is sorted in alphabetical order. |
| ✍ When you select Complete List, it may take a moment to display the list of all MP3 files. | | |
| **Slide Advance** | Advances the slide after a selected time interval. | |
| | **Fast** | Slide advances after about 3 seconds. |
| | **Medium** | Slide advances after about 6 seconds. |
| | **Slow** | Slide advances after about 12 seconds. |
| | **Manual advance** | Slide advances only after you press ◁ or ▷. |
| ✍ Some JPEG files may take longer to display than others, lengthening the interval between slides. | | |
| **File Information** | Determines whether file information is displayed. Select **On** or **Off**. | |
| **Repeat** | **On** | Slide Show continuously loops. |
| | **Off** | Slide Show plays once through all files and ends. |

## Contents Menu Options

The Folder menu includes the following options:

| Option | Description | |
|---|---|---|
| **Select Folder** | 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 35). JPEG 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. |
| **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 file name. |

✍ 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 34, 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.

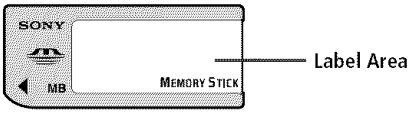
DCF stands for "Design Rules for Camera File Systems," which are specifications established by the Japan Electronic Industry Development Association (JEIDA).

## Memory Stick Precautions

The Memory Stick slot on your TV has been designed to accommodate standard and compact versions of Memory Stick. It is not necessary to use an adapter for Memory Stick Duo and Memory Stick PRO Duo. If you use an adapter it may damage the adapter and Memory Stick slot.

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.

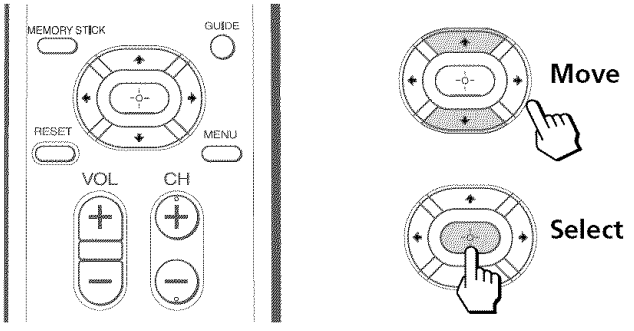



- To avoid permanent damage to still image data, do not use or store Memory Stick media in a location subject to:
  - High temperature (such as near a heater or inside a hot car)
  - High humidity
  - Direct sunlight
  - Corrosive substances
  - Magnetic fields
  - Excessive dust
  - Static electricity 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

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

### Using the Remote Control to Navigate the On-Screen Menus




To navigate on the on-screen menus, use the arrow buttons (⇧ , ⇩ , ⇦ , ⇨) to move the cursor. Pressing these arrows will cause the cursor to move in the corresponding direction. Press the center button ( ⊕ ) to select an option.

## How to Access Menus

### To Access Menus

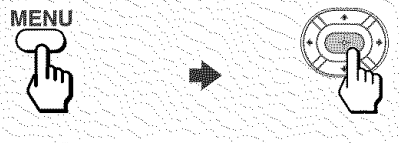
1. Press MENU to display the on-screen menu.
2. Use the ⇦ or ⇨ buttons to highlight the desired menu icon. Press ⊕ to select it.
3. Use the ⇧ or ⇩ buttons to scroll up and down through the features.
4. Follow the instructions on the screen.
5. For instructions on using a specific menu, see the page in this section that talks about that menu.
6. Press MENU to exit the menu.

Press MENU once to display the on-screen menu, and press again to return to normal viewing. If no buttons are pressed, the menu closes automatically after about 90 seconds.

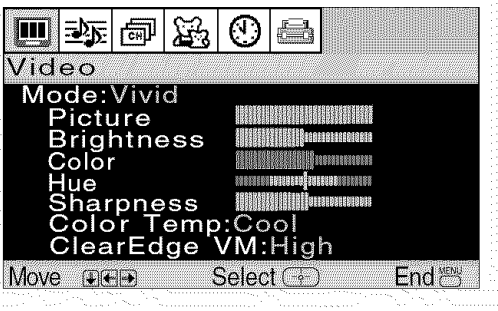
# Using the Video Menu

To access the Video menu, use the following steps:

**To Display** **To Select**




Press ⇳ to highlight an option, then press ⊕.




| | | |
|---|---|---|
| **Mode** | Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊕ to select it. | |
| *Customized picture viewing* | **Vivid:** | Select for enhanced picture contrast and sharpness. |
| | **Standard:** | Select for a standard picture. |
| | **Movie:** | Select for a finely detailed picture. |
| | **Pro:** | Select for natural picture and sharpness. |

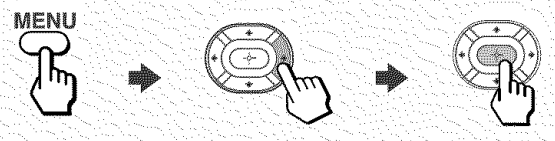
Press PICTURE MODE on the remote control for direct access to the picture modes (Vivid, Standard, Movie, Pro).

| | | |
|---|---|---|
| **Picture** | Press ⇦ to decrease the contrast. Press ⇨ to increase the contrast. | |
| **Brightness** | Press ⇦ to darken the picture. Press ⇨ to brighten the picture. | |
| **Color** | Press ⇦ to decrease color saturation. Press ⇨ to increase color saturation. | |
| **Hue** | Press ⇦ to increase the red tones. Press ⇨ to increase the green tones. | |
| **Sharpness** | Press ⇦ to soften the picture. Press ⇨ to sharpen the picture. | |
| **Color Temp.** | Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊕ to select it. | |
| *White tint adjustment* | **Cool:** | Gives white colors a blue tint. |
| | **Neutral:** | Gives white colors a neutral tint. |
| | **Warm:** | Gives white colors a red tint. |
| **ClearEdge VM** | Sharpens picture definition to give objects a crisp, clean edge. Use the ⇧ or ⇳ buttons to highlight **High**, **Low**, or **Off**, then press ⊕ to select it. | |

# Using the Audio Menu

To access the Audio menu, use the following steps:

**To Display** **To Highlight** **To Select**




Press ⇳ to highlight an option, then press ⊙.

| | |
|---|---|
| **Treble** | Press ⇦ to decrease the higher pitched sounds. Press ⇨ to increase the higher pitched sounds. |
| **Bass** | Press ⇦ to decrease the lower pitched sounds. Press ⇨ to increase the lower pitched sounds. |
| **Balance** | Press ⇦ to emphasize the left speaker. Press ⇨ to emphasize the right speaker. |
| **Steady Sound**<br>*Stabilizes volume* | Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊙ to select it.<br>**On:** Select to stabilize the volume when changing channels.<br>**Off:** Select to turn Steady Sound off. |
| **Effect** | Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊙ to select it.<br>**Simulated:** Simulates theater-quality sound for mono programs.<br>**SRS:** Produces a dynamic three-dimensional sound for stereo programs.<br>**WOW:** Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is directly activated to further enhance the audio performance.<br>**Off:** Normal stereo or mono reception. |

Press TV/SAT ⊙ to directly select Effect settings (Simulated, SRS, WOW, Off).

**MTS**
*Multi-Channel TV Sound*

Use the ⇧ or ⇩ buttons to highlight one of the following options, then press ⊕ to select it.

**Stereo:** Select when viewing a broadcast in stereo.

**Auto SAP:** Select to have the TV automatically switch to a Second Audio Program (SAP) when a signal is received.

**Mono:** Select to reduce noise in areas of poor reception.

Press MTS/SAP to directly select MTS settings (Stereo, Auto SAP, Mono).

If your TV is set to Auto SAP, some programs may be muted or distorted. If your TV does not output sound, change your Audio MTS setting to Stereo or Mono.

**Speaker**
*Custom selection of audio output source*

Use the ⇧ or ⇩ buttons to highlight one of the following options, then press ⊕ to select it.

**On:** Select to listen to the sound from the TV speakers with or without a separate stereo system.

**Off:** Select to turn off the TV speakers and listen to the TV's sound only through external audio system speakers.

**Audio Out**
*Use to control the TV's volume through a stereo*

Use the ⇧ or ⇩ buttons to highlight one of the following options, then press ⊕ to select it.

**Variable:** Adjust the volume through your TV.

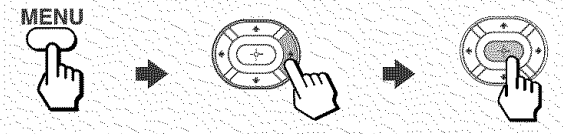
**Fixed:** Adjust the volume through a connected stereo.

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

# Using the Channel Setup Menu

To access the Channel Setup menu, use the following steps:

**To Display** **To Highlight** **To Select**




Press ⇳ to highlight an option, then press ⊕.

**Favorite Channels**

*Quick access to favorite channels*

1. Use the ⇧ or ⇳ buttons to highlight the position (1-5) where you want to set a favorite channel, then press ⊕.
2. Use the ⇧ or ⇳ buttons to find the channel you want to add to your favorite channels.
3. Press ⊕ to select the channel. The TV will automatically change to the selected channel and assign it to the selected position (1-5).
4. Press ⇦ to return to the Channel Setup menu or press MENU to exit.

✍ To use Favorite Channels, exit all menus and press ⊕. Press ⇧ or ⇳ to move the cursor to the desired channel number and press ⊕.

**Cable**

Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊕ to select it.

**On:** Select if you are receiving cable channels with a CATV cable.

**Off:** Select if you are using a TV antenna.

✍ After changing your cable settings, you will need to perform Auto Program. See "To perform Auto Program again" on page 21.

**Channel Fix**

Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊕ to select it.

**Off:** Channel Fix is not set.

**2-6:** Select when you want to control all channel selection through a cable box or VCR. Select the appropriate channel (usually 3 or 4) and use the cable box's or VCR's remote control for channel selection.

**Video 1:** Select from available video inputs when you have connected video equipment (e.g., a satellite receiver) and you want your TV fixed to it.

✍ You cannot use Favorite Channels, Cable, Channel Skip/Add, or Channel Label when Channel Fix is set.

**Auto Program**

Perform Auto Program whenever setting up your TV.
Auto Program will search for available channels and program receivable channels.

**Channel Skip/Add**

Use this feature after you run Auto Program to skip unwanted channels or add new ones.

1. Use the ⇧ or ⇩ buttons to highlight the position of the desired channel, then press ⊕.
2. Use the ⇧ or ⇩ buttons to highlight **Skip** or **Add,** then press ⊕.
3. Press ⇦ to return to the Channel Setup menu or press MENU to exit.

Press CH + or CH - to skip over channels that have been skipped. You can still use the 0-9 buttons to directly tune to skipped channels.

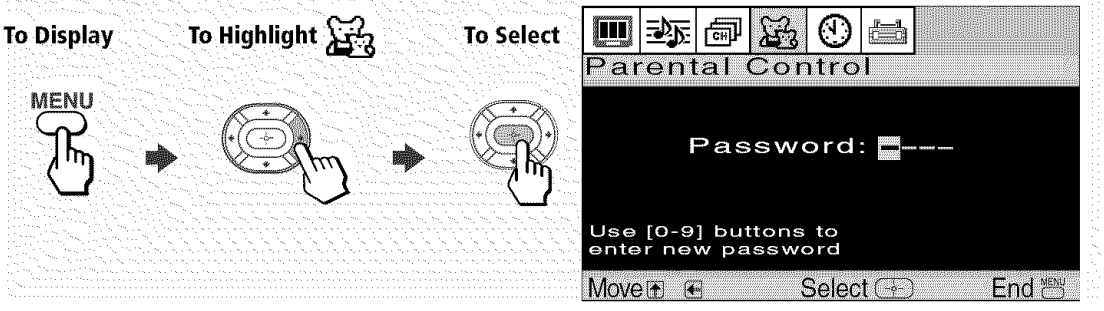
**Channel Label**

*Label up to 40 channels with their call letters*

1. Press ⊕, then use the ⇧ or ⇩ buttons until you reach the desired channel number.
2. Press ⊕ to activate the channel.
3. Press ⇩ to highlight **Label**, then press ⊕. Use the ⇧ or ⇩ buttons to display the first call letter or number of the label. Press ⊕ to select. Repeat this process until you finish selecting all the call letters.
4. When finished, press ⊕ to activate.
5. Press ⇦ to return to the Channel Setup menu or press MENU to exit.

# Using the Parental Control Menu

To access the Parental Control menu, use the following steps:




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

### To use the Parental Control Menu

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

1. Use the ⓪-⑨ buttons to enter a 4-digit password.
2. Confirm your password by entering it again.

Keep this manual in a safe place. You need your password for any future access to the Parental Control menu. If you forget your password, see page 51.

# Parental Control

## Setting the Rating

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

**1** With **Lock** highlighted, press ⊕.

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

**2** Use the ⇧ or ⇩ to highlight the desired rating and press ⊕.

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

## Changing your Password

**1** Use the ⇧ or ⇩ buttons to highlight **Change Password** and press ⊕.

**2** Follow steps 1 and 2 for "Using the Parental Control Menu" on page 43.

## Select a Country

Select U.S.A. to use US ratings (see pages 46-47) or select Canada to use Canadian ratings (see page 48). If you select a Country (U.S. or Canada) that is not where you live, the rating you select will not be activated.

**1** Press ⇩ to highlight **Country**, then press ⊕.

**2** Use the ⇧ or ⇩ to highlight the desired country and press ⊕.

## Information for Parents

### To view a program that exceeds the TV rating

❑ Press ENTER, then use the 0-9 buttons to enter your password.

Entering your password to view a blocked program will temporarily turn **Lock** to Off. To reactivate your Lock settings, turn the TV off then back on; the TV will return to the settings that you have selected.

## Using the Custom Menu

Follow the instructions on the screen to make your custom settings. Select the country desired for your TV's rating limit. For more information, see page 46 (U.S. models) or page 48 (Canadian models).

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

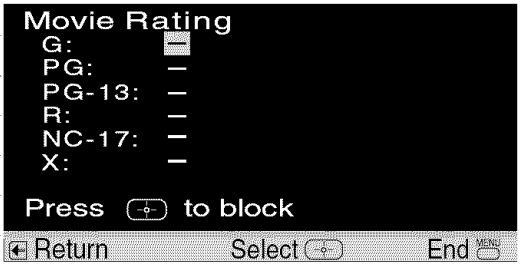
# United States: Selecting Custom Rating Options

For the United States, the Custom Rating menu includes the following options: Movie Rating, TV Rating, and Unrated. (For Canada, see page 48.)

## Movie Rating

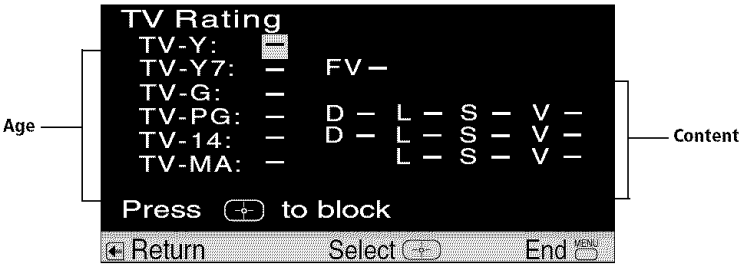
This system defines the rating levels of movies shown in theaters and on prime cable channels.

| Rating | Defined as |
|---|---|
| G | General audience |
| PG | Parental guidance suggested |
| PG-13 | Parents strongly cautioned |
| R | Restricted |
| NC-17 | No one 17 and under admitted |
| X | Adult audience only |




## TV Rating

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




| Age | Defined as |
|---|---|
| TV-Y | All children |
| TV-Y7 | Directed to older children |
| TV-G | General audience |
| TV-PG | Parental guidance suggested |
| TV-14 | Parents strongly cautioned |
| TV-MA | Mature audience only |

| Content | Defined as |
|---|---|
| FV | Fantasy violence |
| D | Suggestive dialogue |
| L | Strong language |
| S | Sexual situations |
| V | Violence |

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

## Unrated

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

| | |
|---|---|
| **Allow** | Allows all unrated programs |
| **Block** | Blocks all unrated programs |

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

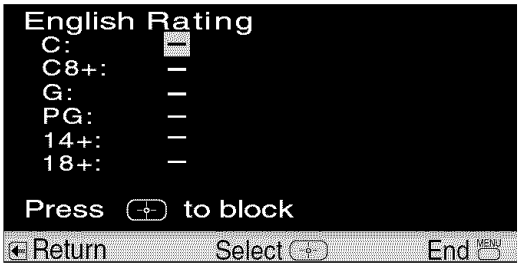
# Canada: Selecting Custom Rating Options

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

## English Rating

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

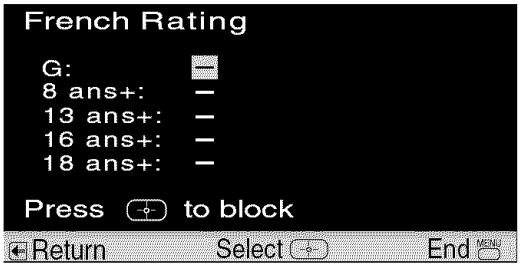
| Rating | Defined as |
|---|---|
| C | Children |
| C8+ | Children 8 years and older |
| G | General programming |
| PG | Parental guidance |
| 14+ | Viewers 14 and older |
| 18+ | Adult programming |




## French Rating

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

| Rating | Defined as |
|---|---|
| G | General |
| 8 ans+ | Not recommended for younger children |
| 13 ans+ | Not recommended for children under age 13 |
| 16 ans+ | Not recommended for ages under 16 |
| 18 ans+ | This program is restricted to adults |

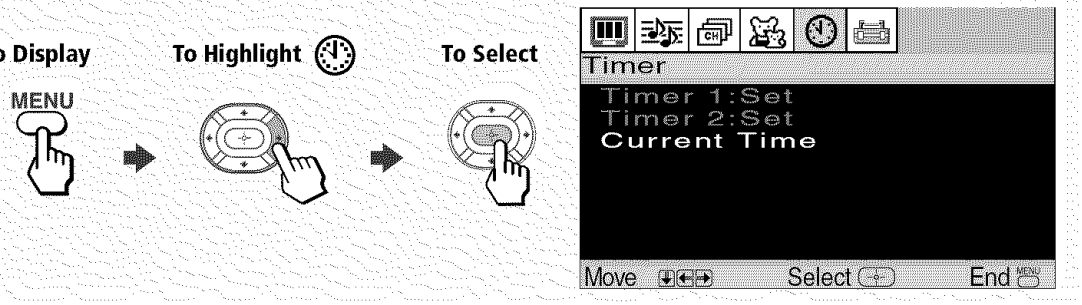



## U.S.A. Rating

For programs from the United States, see "TV Rating" on page 46.

# Using the Timer Menu

To access the Timer menu, use the following steps:




**Current Time**

Set your TV to the current day and time. Press ⊕ to open the Current Time menu:

1. Use the ⇧ or ⇩ buttons to enter the correct day and time, then press ⊕.
2. Press MENU to exit the menu.

✍ You must set the Current Time before you can use Timer 1 or Timer 2.

**Timer 1 and Timer 2**

*Scheduled viewing*

Use the timers to program your TV to turn on and off by day, time, duration, and channel. The timer duration is a maximum of six hours. When the channel is fixed, it is not necessary to set the channel.

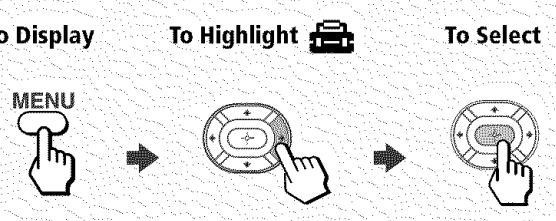
1. Use the ⇧ or ⇩ buttons to highlight **Timer 1** or **Timer 2**, then press ⊕.
2. Use the ⇧ or ⇩ buttons to enter the desired day, start time, duration, and channel, then press ⊕. The timer status should be On when the Timer has been set, and the timer light on the front panel of the TV should be on.
3. Press MENU to exit the menu.

✍ Select Off to turn off the Timer. Your previous settings will be saved.

✍ When you perform Auto Program, Timer 1 and Timer 2 settings will be cleared. Also, in the event of any loss of power, Current Time, Timer 1, and Timer 2 settings will be cleared.

# Using the Setup Menu

To access the Setup menu, use the following steps:




Press ⇳ to highlight an option, then press ⊕.

| | |
|---|---|
| **Caption Vision** *Closed-Captioning* | Allows you to select from three closed-caption modes for programs that are broadcast with closed captioning.<br>Use the ⇧ or ⇳ buttons to highlight one of the following options, then press ⊕ to select it.<br>**Off:** Caption Vision is not activated.<br>**CC1, 2, 3, 4:** Displays printed dialogue and sound effects of a program.<br>**Text1, 2, 3, 4:** Displays network/station information. |
| **Info Banner** | Displays the name of the current program and its remaining time (if available) when you change the channel or press the DISPLAY button. Use the ⇧ or ⇳ buttons to highlight **On**, or **Off.** Then press ⊕. |
| **Video Label** *Label connected equipment* | Allows you to identify the video components connected to the TV: VCR, DVD, etc. When you press TV/VIDEO to switch inputs, the Video Label appears on-screen.<br>**1** Press the ⇧ or ⇳ buttons to highlight the input you want to label and press ⊕.<br>**2** Press the ⇧ or ⇳ buttons to highlight a label and press ⊕.<br>**3** Press ⇦ to return to the Setup menu or press MENU to exit. |
| **Tilt Correction** | Use the ⇧ or ⇳ buttons to set the tilt of the picture from –5 to +5, then press ⊕ to activate. |
| **Language** | Display all menus in the language of your choice.<br>Use the ⇧ or ⇳ buttons to select from one of the following options: **English, Español** (Spanish) and **Français** (French). Then press ⊕. |
| **16:9 Enhanced** | Provides enhanced picture resolution for wide-screen sources such as DVD. This is only available when the TV is in Video mode. |

# Other Information



## Troubleshooting

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

### General

| Problem | Possible Remedies |
|---|---|
| **I want to reset the TV to the factory settings** | ❑ Turn on the TV. While holding down the RESET button on the remote control, press the POWER button on the TV front panel. The TV will turn itself off, then back on again. Release the RESET button. |
| **The TV is dirty** | ❑ Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet. |
| **I lost the parental control password** | ❑ In the password screen, enter the following master password: 4357. After using the master password, you must create a new password. You cannot use the master to unlock currently blocked channels. |
| **There is a black box on the screen** | ❑ You have selected a text option in the Setup menu (page 50) and no text is available. To turn off this feature, select Off in the Caption Vision option. If you were trying to select closed captioning, select CC1-4 instead of Text1-4. |
| **There was a blackout or power outage, and now the TV won't turn on and the timer LED is flashing** | ❑ Press the POWER button on your remote control or on the TV front panel. |
| **The digital cable box does not work** | ❑ If you are connecting a VCR and digital cable box using a splitter, as described in page 13, you must use a special bi-directional splitter (5-900 Mhz mininum) that is designed to work with your digital cable box. |
| **I can't connect the DVD player using component video outputs (Y, $P_B$, $P_R$)** | ❑ You must set up your DVD player before you can connect it using component video outputs (Y, $P_B$, $P_R$). Disconnect the DVD player and set it up, referring to the DVD manual for instructions. Then, connect it to the TV again following the instructions in "Connecting a DVD Player using Component Video" on page 18. |

## Remote Control

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

## Programming The Remote Control

| Problem | Possible Remedies |
|---|---|
| **More than one code is listed** | ❑ Try entering them one by one until you come to the correct code for your component. |
| **I entered the wrong code number** | ❑ If you enter a new code number, the code number you previously entered at that setting is erased. To reenter the correct code number you must reprogram the remote control (page 5). |
| **I cannot operate a component with the remote control** | ❑ Use the component's own remote control. |
| **When I changed the batteries, the code numbers changed back to the factory settings** | ❑ Reprogram the remote control (page 5). |

## Video

| Problem | Possible Remedies |
|---|---|
| **No picture, no sound** | ❑ Make sure the power cord is plugged in.<br>❑ If a red light flashes on the front of your TV for more than a few minutes, disconnect and reconnect the power cord. If the problem continues, call your local service center.<br>❑ Check the TV/VIDEO setting. When watching TV, set it to TV; when watching video equipment, set it to VIDEO 1, 2, 3 or 4 (page 4).<br>❑ Make sure you have inserted the batteries correctly into the remote control (page 2).<br>❑ Try another channel to rule out station trouble. |
| **Poor or no picture, good sound** | ❑ Adjust the **Picture** setting in the Video menu (page 38).<br>❑ Adjust the **Brightness** setting in the Video menu (page 38).<br>❑ Check the antenna and/or cable connections (page 10). |
| **No color** | ❑ Adjust the **Color** setting in the Video menu (page 38). |
| **Snow on the screen** | ❑ Check the **Cable** setting in the Channel menu (page 41).<br>❑ Check the antenna and/or cable connections (page 10).<br>❑ Make sure the channel selected is currently broadcasting. |
| **Dotted lines or stripes** | ❑ Adjust the antenna.<br>❑ Move the TV away from other electronic equipment. Some electronic equipment creates electrical noise, which can interfere with TV reception. |
| **Double images or ghosts** | ❑ Check your outdoor antenna or call your cable service. |

## Audio

| Problem | Possible Remedies |
|---|---|
| **Good picture, no sound** | ❑ Press MUTING so that Muting disappears from the screen (page 3).<br>❑ Check your Audio settings. Your TV may be set to Auto SAP in the MTS feature (page 39).<br>❑ Make sure the speaker option is set to On in the Audio Menu.<br>❑ Press VOL + to adjust your TV's volume. |
| **Low or no audio (TV and cable box)** | ❑ Some cable boxes have volume level controls. Check and see if your cable box remote has a volume control. |

## Memory Stick

| Problem | Possible Remedies |
|---|---|
| **Image does not display/Cannot see all files** | ❑ Make sure the image file is a JPEG (.jpg, .jpeg) file.<br>❑ Make sure the Memory Stick is inserted properly (see page 27).<br>❑ Check the Select Contents setting (see page 34) and ensure that files are either in DCF directories if Digital Camera Folders is selected (see page 34), or in the currently selected folder if Select a Folder is selected (see page 34).<br>❑ The maximum number of files the Memory Stick Viewer can display is 4,000 JPEG files, contained in the maximum of 500 folders.<br>❑ If you are using a Memory Stick with the Memory Select function, try changing the position of the A/B select switch.<br>❑ Some images that were modified on a computer may not display corrected on the Memory Stick Viewer.<br>❑ Progressive JPEG files are not supported. |
| **Memory Stick Index is not visible** | ❑ Press the Memory Stick button on the remote control.<br>❑ Reinsert the Memory Stick, confirm that the Memory Stick is inserted properly (see page 27).<br>❑ Try a different Memory Stick.<br>❑ Reset the Memory Stick Viewer by turning the TV off for 5 seconds. |
| **JPEG image displays undesirable motion or flicker in full screen** | ❑ 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. |
| **Rotation not saved after Memory Stick is ejected or Memory Stick Viewer is closed** | ❑ The Memory Stick might be locked. Unlock the Memory Stick and try rotating the image again.<br>❑ The file might not have information (EXIF data) that is usually generated when a digital camera records a photo. In this case, it is not possible to save the rotation.<br>❑ 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 information in full screen or Slide Show** | ❑ Set the **File Information** option to **On** or **Off** (see page 33). |
| **Cannot see menu** | ❑ Move the joystick ↑ to display the menu again. |
| **Cannot hear audio while using Memory Stick** | ❑ Check the TV's volume or **Speaker** (page 40) settings.<br>❑ Check that the **Music** option is not to set to **Off** (see page 33). |

| Problem | Possible Remedies | |
|---|---|---|
| **Not all MP3 files on Memory Stick are included when the Music /Complete List option is selected (page 33)** | ❑ The Memory Stick Viewer can support a maximum of 500 MP3 files.<br>❑ Make sure that the file is named with the file extension (.mp3). | |
| **The Slide Show stops or/and invalid MP3 message shown** | ❑ The Memory Stick Viewer supports 128 kbps fixed rate encoded MP3 files. You can try one of the following remedies.<br>•Select a single MP3 file that has a fixed bit rate of 128 kbps.<br>•Select **Piano (Built-in)** or turn **Music** to **Off**.<br>•Delete non-128 kbps fixed rate MP3 files from your Memory Stick.<br>❑ The Memory Stick Viewer supports only MP3 files with a fixed data rate of 128 kbps (kilobits per second). | |
| **Cannot see MP3 list to play music** | ❑ MP3 files on your Memory Stick only can be played as background music during a Slide Show (see page 33). | |
| **MP3 files on the Memory Stick are not listed** | ❑ Only MP3 files that are named with the file extension (.mp3) are displayed in the list.<br>❑ Select Complete List to display files in subfolders. | |
| **Error message is displayed** | ❑ No Memory Stick | There is no Memory Stick in the slot. |
| | ❑ Memory Stick is Locked | The lock mechanism on the Memory Stick is engaged. |
| | ❑ Memory Stick Error | The Memory Stick in the slot might be incompatible or 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 JPEG format. |
| | | The file is unreadable. |

## Channels

| Problem | Possible Remedies |
|---|---|
| **I cannot receive higher number channels (UHF) when using an antenna** | ❑ Make sure **Cable** is set to Off in the Channel Setup menu (page 41).<br>❑ Perform Auto Program to add channels that are not presently in the memory (page 21). |

| Problem | Possible Remedies |
| --- | --- |
| **Cable stations don't seem to work** | ❑ Make sure **Cable** is set to On in the Channel Setup menu (page 41).<br>❑ Perform Auto Program to add channels that are not presently in the memory (page 21). |

### Contacting Sony

Before calling our Customer Information Services Center, reset the TV to factory settings (see page 21). Please have your TV serial number ready. The number is located on the rear of your TV and on the front cover of this manual.

Our Customer Information Services Center phone number is 1-800-222-SONY (7669) (US residents only) or 1-877-899-SONY (7669) (Canadian residents only).

# Specifications

## For all models (except as noted)

| | | | | |
|---|---|---|---|---|
| Television system | American TV standard/NTSC | | | |
| Channel coverage | VHF: 2-13/UHF: 14-69/CATV: 1-125 | | | |
| Antenna | 75-ohm external antenna terminal for VHF/UHF | | | |
| Picture tube | FD Trinitron® tube | | | |
| Power requirements | 120V, 60 Hz | | | |
| Supplied accessories | Size AA (R6) batteries (2)<br>Remote Control RM-Y196 (1) | | | |
| Inputs/outputs | Inputs | 1 video, 1 audio (front)<br>2 video, 2 audio (rear)<br>1 S VIDEO<br>1 RF<br>2 Y, PB, PR, 2 audio | Outputs | 1 AUDIO OUT |
| Optional accessories | TV Stand: SU-27F2 for KV-27FS320<br>SU-32F2 for KV-32FS320<br>SU-36F2 for KV-36FS320 | | | |
| **KV-27FS320** | | | | |
| Screen size | Visible screen size: 679mm (27 inches) measured diagonally<br>Actual screen size: 736.6 mm (29 inches) measured diagonally | | | |
| Speaker output | 10 W x 2 | | | |
| Power consumption | 180 W<br>Less than 1 W in standby | | | |
| Dimensions (W/H/D) | 784 x 601.5 x 520 mm (30 7/8 x 23 5/8 x 20 1/2 inches) | | | |
| Mass | 47.4 kg (104 lbs. 8 oz.) | | | |
| **KV-32FS320** | | | | |
| Screen size | Visible screen size: 803 mm (32 inches) measured diagonally<br>Actual screen size: 863.6 mm (34 inches) measured diagonally | | | |
| Speaker output | 10 W x 2 | | | |
| Power consumption | 190 W<br>Less than 1 W in standby | | | |
| Dimensions (W/H/D) | 898 x 682 x 584 mm (35 3/8 x 26 7/8 x 23 inches) | | | |
| Mass | 75.8 kg (167 lbs. 2 oz.) | | | |
| **KV-36FS320** | | | | |
| Screen size | Visible screen size: 911mm (36 inches) measured diagonally<br>Actual screen size: 965.2 mm (38 inches) measured diagonally | | | |
| Speaker output | 10 W x 2 | | | |
| Power consumption | 190 W<br>Less than 1 W in standby | | | |
| Dimensions (W/H/D) | 1020 x 760 x 640 mm (40 1/8 x 29 7/8 x 25 1/4 inches) | | | |
| Mass | 101.2 kg (223 lbs. 2 oz.) | | | |

*Design and specifications are subject to change without notice.*

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