FD Trinitron
WEGA®

Operating Instructions

KV-27FS120

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WARNING

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

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antennas.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Protecting the TV

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

Note on Caption Vision

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

Owner’s Record

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

Trademarks and Copyrights

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

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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 plug (a plug having one blade wider than the 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 have a suitable outlet installed. 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 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.

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.

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

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, washtub, 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.

KV-27FS120
4-101-456-22(1)
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 subjected 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 uses 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.

NEC - NATIONAL ELECTRIC CODE
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM
(NEC ARTICLE 250, PART H)
GROUNDING CONDUCTORS
(NEC SECTION 810-37)
GROUNDING UNIT
(NEC SECTION 810-20)
ANTENNA LEAD IN WIRE
ELECTRIC SERVICE EQUIPMENT
GROUND CLAMPS
GROUNDING CLAMPS
NEC - NATIONAL ELECTRIC CODE
ANTENNA DISCHARGE UNIT
(NEC - SECTION 810-20)
GROUNDING UNIT
(NEC SECTION 810-20)
GROUNDING CONDUCTORS
(NEC SECTION 810-37)
GROUNDING CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM
(NEC ARTICLE 250, PART H)
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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.
- **YPbPr Inputs** — Provides component video inputs for superior picture quality (480i only).
- **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.
- **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.
- **ENERGY STAR®** — Meets the ENERGY STAR® guidelines for energy efficiency.
- **Parental Control (V-Chip)** — Helps parents monitor what their children watch on TV by establishing rating limits.
- **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.
- **16:9 Enhanced** — Provides enhanced picture resolution for wide-screen sources such as DVD.
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 panel controls allow you to access the menu without the remote control.

- Press \( \text{MENU} \) to display the on-screen menu.
- Use the \( \uparrow \) and \( \downarrow \) buttons on the front panel instead of your remote control.
- Use the \( \pm \) button on the front 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 21.
Using the Remote Control
Remote Control Description

1. MUTING
2. DISPLAY
3. POWER
4. PIN
5. PICTURE MODE
6. PICTURE
7. VOLUME
8. VOLUME
9. MENU
10. EXIT
11. TV/VIDEO
12. MTS/SAP
13. CH
14. CH
15. SLEEP

Remote Control Description:

- MUTING: Mutes the sound.
- DISPLAY: Displays current status.
- POWER: Turns the TV on/off.
- PICTURE: Adjusts picture brightness.
- VOLUME: Increases or decreases volume.
- MENU: Accesses TV menu options.
- EXIT: Exits menu options.
- TV/VIDEO: Switches between TV and video inputs.
- MTS/SAP: Selects Multi-Track Sound or Secondary Audio Program.
- CH: Changes channels.
- SLEEP: Sets sleep timer.
## Remote Control Description

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 MUTING</strong></td>
<td>Instantly turns off the sound. Press again or press VOL to restore the sound.</td>
</tr>
<tr>
<td><strong>2 DISPLAY</strong></td>
<td>Press to display the current time (if set) and channel number. Press again to turn DISPLAY off.</td>
</tr>
<tr>
<td><strong>3 MTS/SAP</strong></td>
<td>Cycles through the Multi-channel TV Sound (MTS) options: Stereo, Mono, and Auto SAP (Second Audio Program).</td>
</tr>
<tr>
<td><strong>4 JUMP</strong></td>
<td>Press to jump back and forth between two channels. The TV alternates between current channel and the last channel that was selected.</td>
</tr>
<tr>
<td><strong>5 PICTURE MODE</strong></td>
<td>Cycles through the available Video Mode settings (Vivid, Standard, Movie, Pro).</td>
</tr>
<tr>
<td><strong>6 VOL (volume)</strong></td>
<td>Press when you want to adjust the volume.</td>
</tr>
<tr>
<td><strong>7</strong></td>
<td>Press for a direct selection of Effect settings (Simulated, SRS, Off).</td>
</tr>
<tr>
<td><strong>8</strong></td>
<td>Moves the cursor in the on-screen menus. Press the arrow buttons to move the cursor, then press the center button to select or access an option.</td>
</tr>
<tr>
<td><strong>9 RESET</strong></td>
<td>Press to return to factory settings while in an on-screen menu.</td>
</tr>
<tr>
<td><strong>10 POWER</strong></td>
<td>Press when you want to turn the TV on or off.</td>
</tr>
<tr>
<td><strong>11 TV/VIDEO</strong></td>
<td>Cycles through available video inputs.</td>
</tr>
<tr>
<td><strong>12 0-9 and ENTER</strong></td>
<td>Change the channels directly. Press 0-9 buttons to select a channel, then press ENTER.</td>
</tr>
<tr>
<td><strong>13 CH (channel)</strong></td>
<td>Press when you want to change channels.</td>
</tr>
<tr>
<td><strong>14 MENU</strong></td>
<td>Displays the on-screen menu. Press again to exit the menu at any time.</td>
</tr>
<tr>
<td><strong>15 SLEEP</strong></td>
<td>Turns the TV off automatically in approximately 15, 30, 45, 60, or 90 minutes. Cancel by pressing until Sleep off appears.</td>
</tr>
</tbody>
</table>

⚠️ If you lose your remote control, see page 36.
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**

<table>
<thead>
<tr>
<th>Jack</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 VHF/UHF</td>
<td>This input connects to your VHF/UHF antenna or cable.</td>
</tr>
<tr>
<td>2 S VIDEO</td>
<td>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.</td>
</tr>
<tr>
<td>3 VIDEO/AUDIO L(MONO), R</td>
<td>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.</td>
</tr>
<tr>
<td>4 YPbPr L, R</td>
<td>This input connects to the component video YPbPr, and AUDIO L, R jacks on your DVD player or digital set-top box (480i only).</td>
</tr>
<tr>
<td>5 AUDIO OUT (VAR/FIX) L(MONO), R</td>
<td>This jack connects to the Audio input jacks on your audio equipment. You can listen to your TV’s audio through your stereo system.</td>
</tr>
</tbody>
</table>
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 Cable
    75-ohm coaxial cable
    (Rear of TV) VHF/UHF

Use this to connect the TV to a dipole antenna, also known as a “rabbit ears” antenna.

B  VHF only or UHF only or VHF/UHF
    300-ohm twin lead cable
    Antenna connector
    Converter of 300 ohm to 75 ohm
    (not supplied)
    (Rear of TV) VHF/UHF

Use this to connect the TV to a cable system or an antenna with a 75-ohm cable.

⚠️ 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 (located on the rear panel) instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.

To watch video programs from your VCR, tune your TV to Channel 3 or 4 (as set on the rear of your VCR).

You can use the button to switch between the VHF/UHF and VIDEO Inputs.
**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.

**Optional connection**

- To view channels from your cable box, tune your TV to channel 3 or 4 (as set on the rear panel of your cable box) and use the cable box’s remote control to change channels.
- If you will be controlling all channel selection through your cable box, you should consider using the Channel Fix feature by setting your TV to channel 3 or 4 (see page 25).
Connecting a TV, VCR, and 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 the audio/video cables (not supplied), connect the AUDIO/VIDEO OUT on your VCR to the AUDIO/VIDEO IN on your TV.
5. Using the audio/video cables (not supplied), connect the AUDIO/VIDEO OUT on your cable box to the AUDIO/VIDEO IN on your 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 and Video OUT on your VCR to Audio/Video IN on your TV.
- For better picture quality, use S VIDEO (located on the rear panel), instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.

✍ You can use the TV/VIDEO button to switch between the VHF/UHF and VIDEO inputs.
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.

- To watch video programs from your Satellite receiver, tune your TV to channel 3 or 4.

- You can use the button to switch between the VHF/UHF and VIDEO inputs.
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 the AUDIO/VIDEO IN on your TV.
6. Using audio/video cables (not supplied), connect the AUDIO/VIDEO OUT on your satellite receiver to the AUDIO/VIDEO IN on your TV.

Optional connection
- To view from the satellite receiver or VCR, select the video input to which your satellite receiver or VCR is connected by pressing \( \text{TV/VIDEO} \) on the remote control.
Connecting a TV, VCR, and Satellite Receiver using Component Video (YPbPr)

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 the AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.
6. Using component video cables (not supplied), connect the YPbPr OUT on your satellite receiver to YPbPr IN on your TV.
7. Connect AUDIO OUT on your satellite receiver to AUDIO IN on your TV.
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 (located on the rear panel), 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 (YPbPr/R, L)

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

1. Using component video cables (not supplied), connect the YPbPr OUT on your DVD player to YPbPr IN on your TV.
2. Connect AUDIO OUT on your DVD player to AUDIO IN on your TV.

⚠️ The YPbPr 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.
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 23.
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 23.

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 the AUDIO/VIDEO OUT on your camcorder to the AUDIO/VIDEO IN on your TV.

Optional connection
   - For better picture quality, use S VIDEO (located on the rear panel), instead of the yellow video cable. S VIDEÒ does not provide sound, so you still must connect the audio cables.
Connecting for Video Tape Editing (VCR and Camcorder)

1. For video tape editing connect to the VCR the following sources (VCR or Camcorder):
   a) Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your first VCR to AUDIO/VIDEO IN on your second VCR.
   b) Using audio/video cables (not supplied), connect the AUDIO/VIDEO OUT on your Camcorder to the AUDIO/VIDEO IN on your second VCR.

2. Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on the second VCR to AUDIO/VIDEO IN on your TV.
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 \( \) to turn on the TV. The Initial Setup screen appears.

2. Press \( \) on the remote control or on the TV front panel to start Auto Program, or press \( \) to exit.

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

To perform Auto Program again

1. Press \( \).
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 \( \) to exit.

To reset the TV to factory settings

1. Turn the TV on.
2. Hold down \( \) 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 \( \).
**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 21.

<table>
<thead>
<tr>
<th>Menu</th>
<th>Allows you to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture Controls</td>
<td>Adjust your picture settings.</td>
</tr>
<tr>
<td>Video</td>
<td>Video: Vivid</td>
</tr>
<tr>
<td>Mode: Vivid</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td></td>
</tr>
<tr>
<td>Color Temp.: Cool</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td></td>
</tr>
<tr>
<td>ClearEdge VM: High</td>
<td></td>
</tr>
<tr>
<td>Hue</td>
<td></td>
</tr>
<tr>
<td>Sharpness</td>
<td></td>
</tr>
<tr>
<td>Audio Options</td>
<td>Change your audio settings.</td>
</tr>
<tr>
<td>Audio</td>
<td>MTS: Stereo</td>
</tr>
<tr>
<td>Treble</td>
<td></td>
</tr>
<tr>
<td>Speaker: On</td>
<td></td>
</tr>
<tr>
<td>Bass</td>
<td></td>
</tr>
<tr>
<td>Balance</td>
<td></td>
</tr>
<tr>
<td>Audio Out: Fixed</td>
<td></td>
</tr>
<tr>
<td>Steady Sound: Off</td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td>Customize your channel settings.</td>
</tr>
<tr>
<td>Channel Setup</td>
<td></td>
</tr>
<tr>
<td>Favorite Channels</td>
<td></td>
</tr>
<tr>
<td>Cable: Off</td>
<td></td>
</tr>
<tr>
<td>Channel Fix: Off</td>
<td></td>
</tr>
<tr>
<td>Auto Program</td>
<td></td>
</tr>
<tr>
<td>Channel Skp/Add</td>
<td></td>
</tr>
<tr>
<td>Channel Label</td>
<td></td>
</tr>
<tr>
<td>Parental Control</td>
<td>Set rating limits on your TV based on program rating or content.</td>
</tr>
<tr>
<td>Password: ——</td>
<td></td>
</tr>
</tbody>
</table>
Set the clock on your TV and program scheduled viewing using Timer 1 and Timer 2.

Select closed captioning options, display the name of the current program and its remaining time (Info Banner), label video inputs, adjust tilt correction, enhance your DVD picture resolution (16:9 Enhanced) or select menu language.
Using the Menus

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

Using the Remote Control to Navigate on 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. Pressing center button (中央) will allow you to select an option.

How to Access Menus

To Access Menus

1. Press  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  to exit the menu.

Press  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:

<table>
<thead>
<tr>
<th>To Display</th>
<th>To Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU</td>
<td></td>
</tr>
</tbody>
</table>

### Mode

*Customized picture viewing*

Use the † or ‡ buttons to highlight one of the following options, then press ‡ to select it.

- **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 † to highlight an option; then press ‡.

### Picture Control

With the Picture Controls menu open, press † or ‡ to select one of the following option:

- **Picture:** Press † to decrease the contrast. Press ‡ to increase 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.

*White color tint adjustment*

Use the † or ‡ buttons to select from one of the following options:

- **Cool:** Gives the white colors a blue tint.
- **Neutral:** Gives the white colors a neutral tint.
- **Warm:** Gives the white colors a red tint.

### ClearEdge VM

Sharpens picture definition to give objects a crisp edge. Use the † or ‡ buttons to highlight of the following options: **High, Low, 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**
--- | --- | ---
MENU | | |

Press † to highlight an option; then press ‡.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treble</td>
<td>Press † to decrease the higher pitched sounds. Press ‡ to increase the higher pitched sounds.</td>
</tr>
<tr>
<td>Bass</td>
<td>Press † to decrease the lower pitched sounds. Press ‡ to increase the lower pitched sounds.</td>
</tr>
<tr>
<td>Balance</td>
<td>Press † to emphasize the left speaker. Press ‡ to emphasize the right speaker.</td>
</tr>
</tbody>
</table>
| Steady Sound | Press † or ‡ to select one of the following options:  
  **Stabilizes volume**  
  **On:** Select to stabilize the volume when changing channels.  
  **Off:** Select to turn Steady Sound off. |
| Effect | Use the † or ‡ buttons to highlight one of the following options, then press ‡ to select it.  
  **Simulated:** Simulates theater quality sound for mono programs.  
  **SRS:** Produces a dynamic three-dimensional sound for stereo programs.  
  **Off:** Normal stereo or mono reception. |
| Options | Use these features to change your Audio setting.  
  **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. |
| Speaker | 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 SELECT to select it.

| Variable: | Adjust the volume through your TV. |
| Fixed: | Adjust the volume through a connected stereo. |

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.

⚠️ You can only set Audio Out settings when you have set Speaker to Off.
### Using the Channel Menu

To access the Channel menu, use the following steps:

<table>
<thead>
<tr>
<th>To Display</th>
<th>To Highlight</th>
<th>To Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
4. Press ◄ to return to the Channel 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 17.*

#### 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.
**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 menu or press ‡ 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 menu or press ‡ to exit.

*You cannot use Favorite Channels, Cable, Channel Skip/Add, or Channel Label when Channel Fix is set.*
Using the Parent Menu

To access the Parent menu, use the following steps:

To Display To Highlight To Select

Press ‡ to highlight an option; then press  ⊬ .

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

To Use the Parent Menu

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

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

Keep this manual in a safe place. You need your password for any future access to the Parent menu. If you forget your password, see page 35.
Parental Control

Setting the Rating

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

1 Press † to highlight Parental Lock, then 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 ✓.

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

Changing your Password

1 Use the ‡ or † buttons to highlight Change Password and press ✓.

2 Follow steps 1 and 2 for “Using the Parent Menu” on page 27.

Select a Country

Select U.S.A. to use US ratings (see pages 30-31) or select Canada to use Canadian ratings (see page 32). If you select a Country (U.S.A. or Canada) that is not where you live, the rating you select will not be activated.

1 Press † 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  , then use the 0-9 buttons to enter your password.

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

Using the Custom Menu

Follow the instructions on the screen to make your custom settings. Select the country desired for your TV’s rating limit. See page 30 for U.S. models and page 32 for Canadian models for more information.

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 32.)

**Movie Rating**

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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Defined as</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>General audience</td>
</tr>
<tr>
<td>PG</td>
<td>Parental guidance suggested</td>
</tr>
<tr>
<td>PG-13</td>
<td>Parents strongly cautioned</td>
</tr>
<tr>
<td>R</td>
<td>Restricted</td>
</tr>
<tr>
<td>NC-17</td>
<td>No one 17 and under admitted</td>
</tr>
<tr>
<td>X</td>
<td>Adult audience only</td>
</tr>
</tbody>
</table>

**TV Rating**

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

<table>
<thead>
<tr>
<th>Age</th>
<th>Defined as</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-Y</td>
<td>All children</td>
</tr>
<tr>
<td>TV-Y7</td>
<td>Directed to older children</td>
</tr>
<tr>
<td>TV-G</td>
<td>General audience</td>
</tr>
<tr>
<td>TV-PG</td>
<td>Parental guidance suggested</td>
</tr>
<tr>
<td>TV-14</td>
<td>Parents strongly cautioned</td>
</tr>
<tr>
<td>TV-MA</td>
<td>Mature audience only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Content</th>
<th>Defined as</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV</td>
<td>Fantasy violence</td>
</tr>
<tr>
<td>D</td>
<td>Suggestive dialogue</td>
</tr>
<tr>
<td>L</td>
<td>Strong language</td>
</tr>
<tr>
<td>S</td>
<td>Sexual situations</td>
</tr>
<tr>
<td>V</td>
<td>Violence</td>
</tr>
</tbody>
</table>

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain intense violence.
Unrated
You have the option of blocking TV programs or movies that are not rated.

<table>
<thead>
<tr>
<th>Allow</th>
<th>Allows all unrated programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block</td>
<td>Blocks all unrated programs</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Defined as</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Children</td>
</tr>
<tr>
<td>C8+</td>
<td>Children 8 years and older</td>
</tr>
<tr>
<td>G</td>
<td>General programming</td>
</tr>
<tr>
<td>PG</td>
<td>Parental guidance</td>
</tr>
<tr>
<td>14+</td>
<td>Viewers 14 and older</td>
</tr>
<tr>
<td>18+</td>
<td>Adult programming</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Defined as</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>General</td>
</tr>
<tr>
<td>8 ans+</td>
<td>Not recommended for younger children</td>
</tr>
<tr>
<td>13 ans+</td>
<td>Not recommended for children under age 13</td>
</tr>
<tr>
<td>16 ans+</td>
<td>Not recommended for ages under 16</td>
</tr>
<tr>
<td>18 ans+</td>
<td>This program is restricted to adults</td>
</tr>
</tbody>
</table>

**U.S.A. Rating**
For programs from the United States, see “TV Rating” on page 30.
Using the Timer ☻ Menu

To access the Timer menu, use the following steps:

<table>
<thead>
<tr>
<th>To Display</th>
<th>To Highlight ☻</th>
<th>To Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Press ◄ to highlight an option; then press ►.

**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 ◄ 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 ◄ 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:

<table>
<thead>
<tr>
<th>To Display</th>
<th>To Highlight</th>
<th>To Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Press ‡ to highlight an option; then press +.

<table>
<thead>
<tr>
<th>Caption Vision</th>
<th>Allows you to select from three closed caption modes for programs that are broadcast with closed captioning. Use the ↑ or ↓ buttons to highlight one of the following options, then press + to select it.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed-Captioning</td>
<td>Off: Caption Vision is not activated. CC1, 2, 3, 4: Displays printed dialogue and sound effects of a program. Text1, 2, 3, 4: Displays network/station information.</td>
</tr>
</tbody>
</table>

| 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 one of the following options: On, Off. Then press +. |

<table>
<thead>
<tr>
<th>Video Label</th>
<th>Allows you to identify the video components connected to the TV: VHS, DVD, etc. When you press TV/VIDEO to switch inputs, the Video Label appears on-screen.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label connected equipment</td>
<td>1 Press the ↑ or ↓ buttons to highlight the input you want to label and press +.</td>
</tr>
<tr>
<td></td>
<td>2 Press the ↑ or ↓ buttons to highlight a label and press +.</td>
</tr>
<tr>
<td></td>
<td>3 Press ‡ to return to the Setup menu or press + to exit.</td>
</tr>
</tbody>
</table>

| 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. 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. |

---
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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Remedies</th>
</tr>
</thead>
<tbody>
<tr>
<td>I want to reset the TV to the factory settings</td>
<td>❏ Turn on the TV. While holding down on the remote control, press POWER button on the TV front panel. The TV will turn itself off, then back on again. Release.</td>
</tr>
<tr>
<td>The TV is dirty</td>
<td>❏ 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.</td>
</tr>
<tr>
<td>I lost the parental control password</td>
<td>❏ 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.</td>
</tr>
<tr>
<td>There is a black box on the screen</td>
<td>❏ You have selected a text option in the Setup menu (page 34) 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.</td>
</tr>
<tr>
<td>There was a blackout or power outage, and now the TV won’t turn on and the timer LED is flashing</td>
<td>❏ Press the POWER button on your remote control or on the TV front panel.</td>
</tr>
</tbody>
</table>

Digital cable box does not work

| ❏ Be sure that you have not connected the digital cable box to the TV’s TO CONVERTER jack. This jack is not compatible with digital cable boxes. |
| ❏ If you are connecting a VCR and digital cable box using a splitter, as described in page 9, you must use a special bi-directional splitter (5–900MHz minimum) that is designed to work with your digital cable box. |
## Remote Control

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

## Video

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Remedies</th>
</tr>
</thead>
</table>
| No picture, no sound            | ❑ Make sure the power cord is plugged in.  
❑ If a red light is flashing on the front of your TV for more than a few minutes, disconnect and reconnect the power cord. If the problem continues, call your local service center.  
❑ Check the TV/VIDEO setting: when watching TV, set it to TV; when watching video equipment, set it to VIDEO 1, 2, 3 or 4 (page 4).  
❑ Try another channel to rule out station trouble.                                                                                     |
| Poor or no picture, good sound  | ❑ Adjust the **Picture** setting in the Video Menu (page 22).  
❑ Adjust the **Brightness** setting in the Video Menu (page 22).  
❑ Check the antenna and/or cable connections (page 6).                                                                                     |
| No color                         | ❑ Adjust the **Color** setting in the Video Menu (page 22).                                                                                                                                                       |
| Only snow appears on the screen  | ❑ Check the **Cable** setting in the Channel Menu (page 25).  
❑ Check the antenna and/or cable connections (page 6).  
❑ Make sure the channel selected is currently broadcasting.                                                                                  |
| Dotted lines or stripes          | ❑ Adjust the antenna.  
❑ 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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Remedies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Good picture, no sound</strong></td>
<td>❑ Press ( \text{Mute} ) so that Muting disappears from the screen (page 4).</td>
</tr>
<tr>
<td></td>
<td>❑ Check your Audio settings. Your TV may be set to Auto SAP in the MTS feature</td>
</tr>
<tr>
<td></td>
<td>(page 23).</td>
</tr>
<tr>
<td></td>
<td>❑ Make sure the speaker option is set to On in the Audio Menu.</td>
</tr>
<tr>
<td></td>
<td>❑ Adjust TV's volume.</td>
</tr>
<tr>
<td><strong>Low or no audio</strong></td>
<td>❑ Some cable boxes have volume level controls. Check and see if your cable box</td>
</tr>
<tr>
<td><em>(TV and Cable box)</em></td>
<td>or cable box remote has a volume control.</td>
</tr>
</tbody>
</table>

### Channels

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Remedies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I cannot receive higher number channels (UHF) when</strong></td>
<td>❑ Make sure \textit{Cable} is set to Off in the Channel Menu (page 25).</td>
</tr>
<tr>
<td><strong>using an antenna</strong></td>
<td>❑ Perform Auto Program to add channels that are not presently in the memory</td>
</tr>
<tr>
<td></td>
<td>(page 17).</td>
</tr>
<tr>
<td><strong>Cable stations don’t seem to work</strong></td>
<td>❑ Make sure \textit{Cable} is set to On in the Channel Menu (page 25).</td>
</tr>
<tr>
<td></td>
<td>❑ Perform Auto Program to add channels that are not presently in the memory</td>
</tr>
<tr>
<td></td>
<td>(page 17).</td>
</tr>
</tbody>
</table>

### Contacting Sony

Before calling our Customer Information Services Center, reset the TV to factory settings (see page 17). 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 1-877-899-SONY (7669) (US residents only) or (416) 499-SONY (7669) (Canadian residents only).
Specifications

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 2 Size AA (R6) batteries
1 Remote Control RM-Y194
Optional accessories TV Stand: SU-27FS2

KV-27FS120

Screen size Visible screen size: 685.8 mm (27 inches) measured diagonally
Actual screen size: 736.6 mm (29 inches) measured diagonally

Inputs/outputs

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 video, 1 audio (front)</td>
<td>1 AUDIO OUT</td>
</tr>
<tr>
<td>2 video, 2 audio (rear)</td>
<td></td>
</tr>
<tr>
<td>1 S VIDEO</td>
<td></td>
</tr>
<tr>
<td>1 RF</td>
<td></td>
</tr>
<tr>
<td>1 YPrPb, 1 audio</td>
<td></td>
</tr>
</tbody>
</table>

Speaker output 10 W x 2
Power consumption 180 W in use less than 1 W in standby
Dimensions (W/H/D) 768 x 589 x 497 mm (30 1/4 x 23 1/4 x 19 5/8 inches)
Mass 45.2 kg (99 lbs. 10 oz)

Design and specifications are subject to change without notice.
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