



FD Trinitron
WEGA[®]

Operating Instructions

KV-21FS150

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.



Pursuant to FCC regulations 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 Closed Captions (CC)

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

Use of this television for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster-cable company and/or program owner.

Owner’s Record

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

Trademarks and Copyrights

ENERGY STAR® is a registered mark.



Sony, FD Trinitron, WEGA®, Steady Sound and Intelligent Picture are Sony Corporation’s trademarks.

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 polarized AC power cord plug

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



Alternate Warning

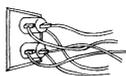
For the set with a three-wire grounding type AC plug

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



Overloading

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



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

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

Object and Liquid Entry

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



Attachments

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

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



Cleaning

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



If a snapping or popping sound from a TV set 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

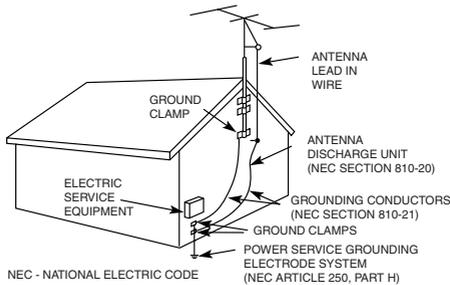
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

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.



CARRYING THE TV

Carry the TV in the specified manner.

Carrying the TV requires at least two people. If you carry the TV in a manner other than that specified and without the specified number of persons, it may drop and serious injury may result.



- ❑ Carry the TV holding the upper and bottom frames of the TV as illustrated.
- ❑ When transporting, do not subject the TV to shocks or vibrations, or excessive force.
- ❑ When lifting or moving the TV, be sure to hold the panel firmly as illustrated. Place your palm directly under the panel, from the rear of the TV.

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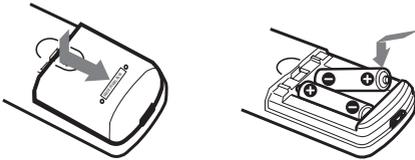
Introduction

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

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 or satellite receiver. Once your TV is connected, follow the instructions and use the remote control to access the on-screen menus.

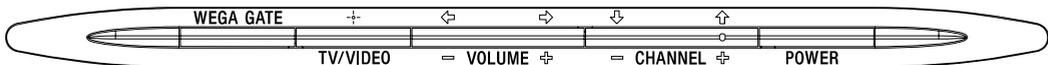
Batteries for the Remote Control



Insert two AA 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.
- Check the orientation of the batteries.

Menu Controls on the Upper Panel

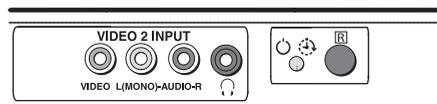


The Upper Panel controls allow you to access the menu without the remote control.

- Press the POWER button to turn the television on or off.
- Press the WEGA GATE button to make the Menu appear on the screen.
- Use the \leftarrow (TV/VIDEO), \leftrightarrow (- VOLUME +), \updownarrow and (- CHANNEL +) buttons to navigate through the menus and to select options. The upper panel controls also allow you to change the channel, adjust the volume and change the video inputs.

- To navigate the menus with the remote control, see "Using the Remote Control to Navigate the On-Screen Menus" on page 7.

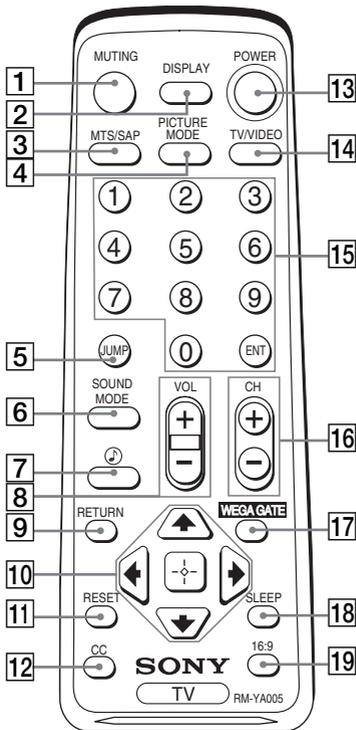
Front Panel



The Front Panel allows you to connect Audio/Video cables (not supplied) as well as headphones.

Using the Remote Control

Remote Control Description



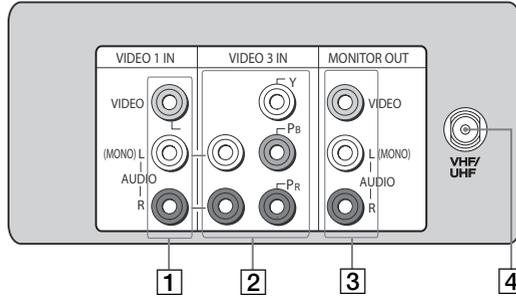
Button	Description
1 MUTING	Press to turn off the sound. Press again or press to restore the sound.
2 DISPLAY	Press once to display the channel number, the channel label (if set) and the status of the stereo mode.
3 MTS/SAP	Press to scroll through the MTS options: Stereo, Auto SAP and Mono (see page 11).
4 PICTURE MODE	Press repeatedly to step through the available video picture mode options: Vivid, Standard and Personal (see page 10).
5 JUMP	Press to jump back and forth between two channels. The television changes to the last channel which was tuned in for at least 5 seconds.
6 SOUND MODE	Allows you to select between options for sound effects.
7	Press for a direct selection of Effect settings: Surround, Simulated and Off (see page 11).
8 VOL (volume)	Press (+) or (-) to adjust the volume.
9 RETURN	Allows you to return to the previously selected menu level.
10	Press the arrow buttons to move the cursor in the on-screen menus. Press the center button to select or access an option.
11 RESET	Press to return the factory settings while in an on-screen menu.
12 CC	Allows you to select three subtitle modes.
13 POWER	Press to turn on/off the TV.
14 TV/VIDEO	Press to cycle through the available video inputs.
15 0-9 and ENT	Press 0-9 ; the channel changes after 2 seconds. Press ENT to change channels immediately.
16 CH (channel)	Press to change the channel.
17 WEGA GATE	Show the WEGA GATE menu. Press again to exit the menu.
18 SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, 75 or 90) that you want the TV to remain or before shutting off automatically. Cancel by pressing until Sleep Off appears.
19 16:9 (vertical compression)	Provides enhanced picture resolution for wide-screen sources such as DVD.

If you lose your remote control, see page 14.

Connecting your TV

Read this section before setting up your TV for the first time. This section covers basic connections in addition to any optional equipment you may be connecting.

TV Rear Panel

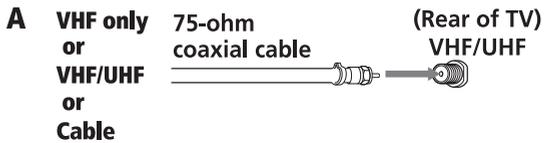


Jack	Description
1 VIDEO/AUDIO L(MONO)/R	This input connects to the AUDIO/VIDEO output jacks on your VCR or other video equipment. A third video input (VIDEO 2) jack is located on the front panel of the TV. These AUDIO/VIDEO IN connections provide a better quality image than the VHF/UHF connection.
2 YPBPr/ L, R	This input connects to the component video YPBPr and AUDIO L, R jacks on your DVD Player or digital set-top box (480i only).
3 MONITOR OUT	Allows you to record the program you are watching to a VCR. By connecting two VCRs, you can use the television as a monitor for video editing.
4 VHF/UHF	Connects to your VHF/UHF antenna or cable.

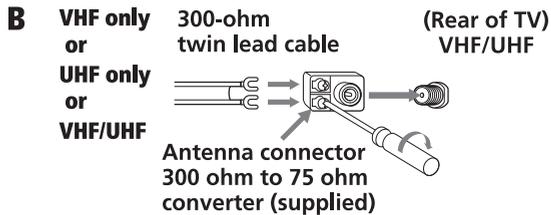
Basic Connections

TV with Cable, Indoor or Outdoor Antenna

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



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

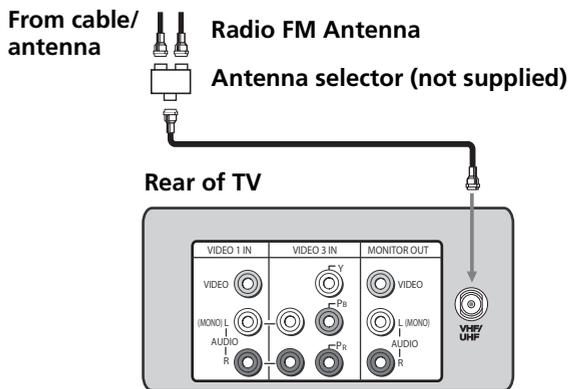


Use this to connect the TV to a dipole antenna, also known as a “rabbit ears antenna”.

If you connect the television to an interior or exterior antenna, you may have to adjust the orientation of the antenna to get better reception.

TV with FM Radio Antenna

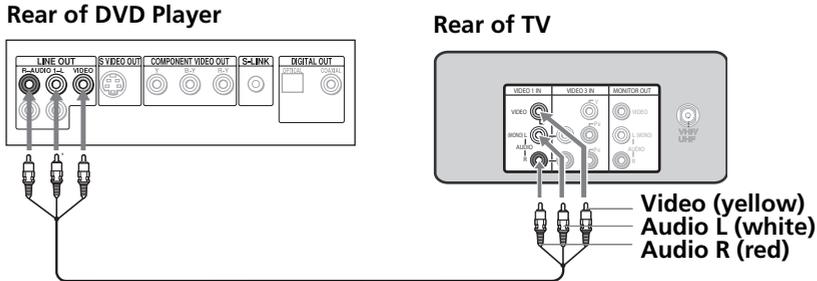
To improve the FM Radio Frequency in your TV, use the connection below:



Connecting Additional Equipment

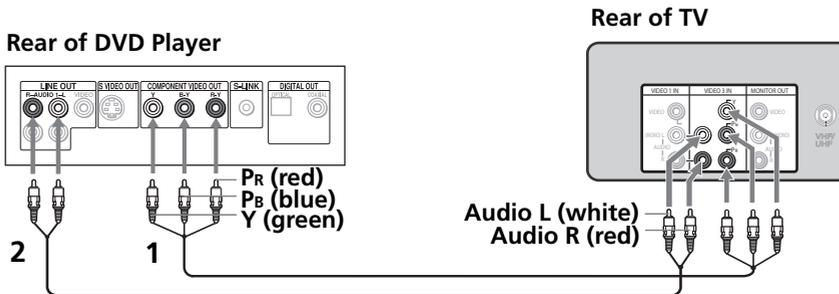
Connecting a DVD Player using Composite Video (VIDEO/AUDIO L(MONO), R)

Use AUDIO/VIDEO cables (not supplied) connect AUDIO/VIDEO OUT on your DVD player to VIDEO IN on your TV.



Connecting a DVD Player using Component Video (YPbPr/L)

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



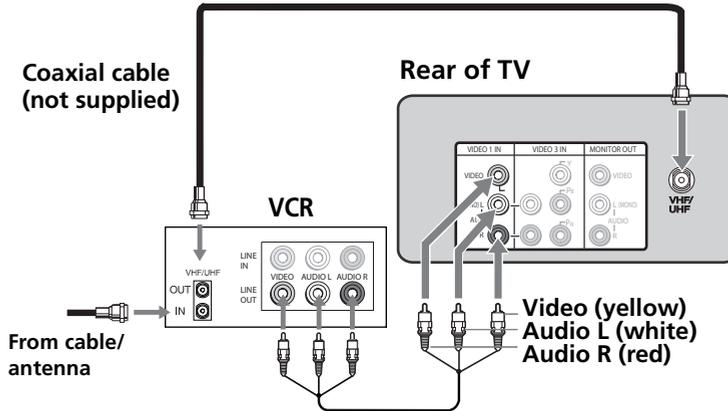
- 1** Connect YPbPr OUT on your DVD Player to YPbPr IN on your TV using component video cables (not supplied).
- 2** Connect AUDIO OUT on your DVD player to AUDIO IN on your TV.



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 color of the jacks.

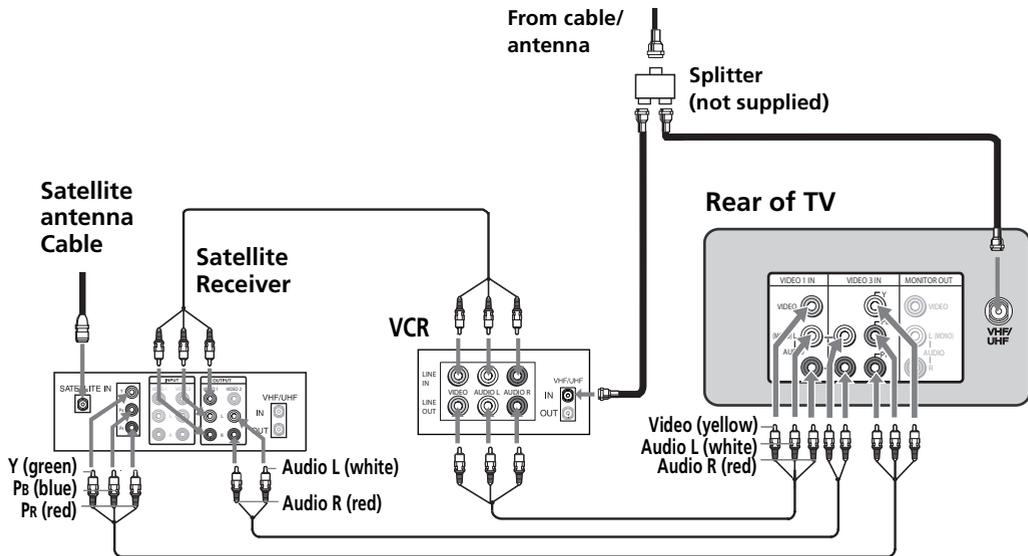
Connecting a TV and VCR

- 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.



You can use the button to change between the VHF/UHF and VIDEO inputs.

Connecting a TV, VCR and Satellite Receiver using Component Video (YP_BPr/R,L)



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

The satellite receiver and cable service are pay television systems.

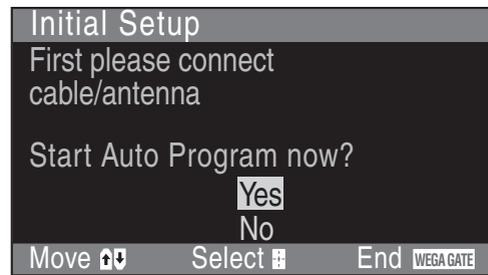
Using Basic Functions

Setting Up the TV

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



- 1 Press \uparrow or \downarrow to select the desired menu language, then press Select .



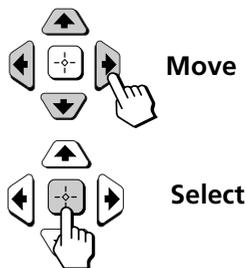
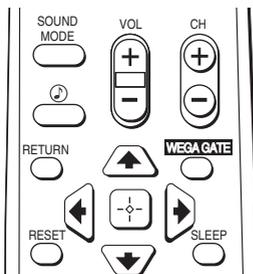
- 2 Press \downarrow or \uparrow to select **Yes**, then press Select to preset the channels automatically. To skip automatic channel presetting, select **No**, then press Select .

The Initial Setup screen appears each time until you select **No** on "Display this menu next time ?" option.

To perform Auto Program again:

- 1 Press WEGA GATE .
- 2 Press \downarrow to highlight Settings menu. Press Select to select.
- 3 Press \downarrow to highlight Channel Setup. Press Select to select.
- 4 Press \downarrow to highlight Auto Program. Press Select to select.
- 5 Press \downarrow or \uparrow to highlight Yes. Press Select to search for channels.
- 6 After Auto Program finishes, press WEGA GATE to exit.

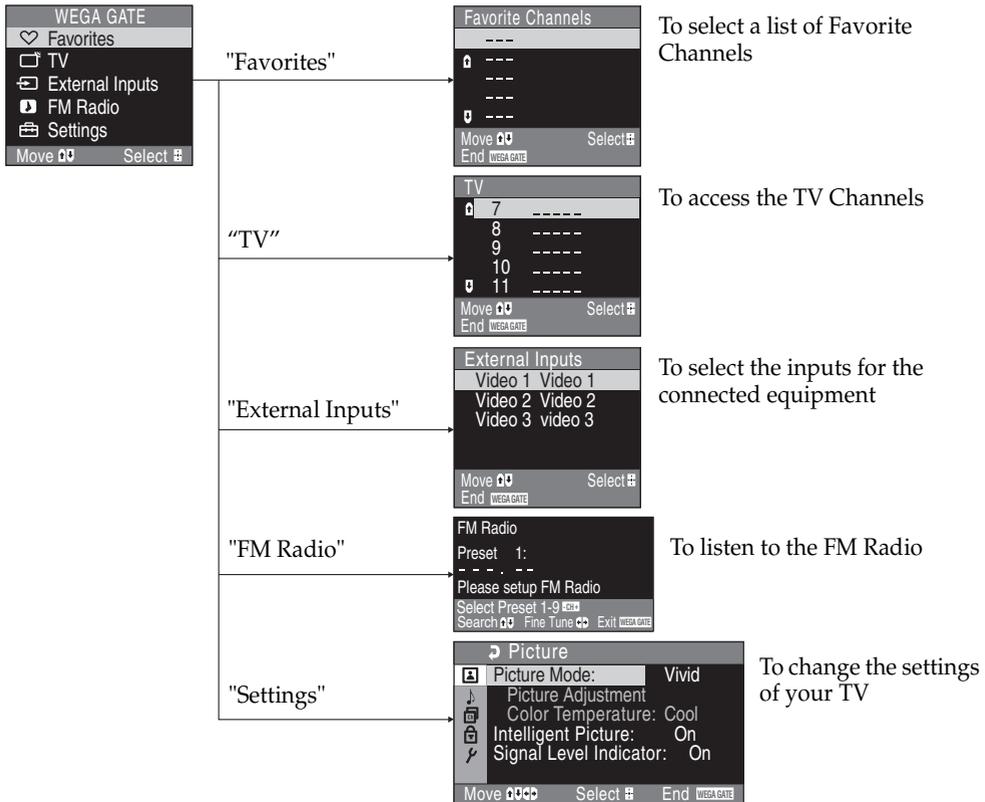
Using the Remote Control to Navigate the On-Screen Menus



To navigate on the on-screen menus, use the "arrow" buttons (\uparrow , \downarrow , \leftarrow , \rightarrow) to move the cursor. Pressing these arrows will cause the cursor to move in the corresponding direction. Pressing center button Select will allow you to select an option.

Introducing the WEGA GATE Navigator

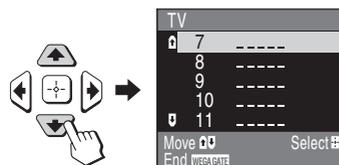
WEGA GATE is a gateway that allows you to access to preset list of Favorites channels, TV channels, connected external inputs, listening FM Radio and "Settings".



Basic Functions

How to use WEGA GATE

1 Press WEGA GATE to display or cancel the WEGA GATE menu.



2 Press or to confirm your selection or press or to go to the next level.

3 Press or to select the desired item.



4 Press or to move to the previous level or press to exit the menu.

Listening to the FM Radio

You are able to listen to the FM Radio stations using your TV.

To access to FM Radio mode:

- 1 Press  and select "FM Radio".

To exit from FM Radio mode:

- 1 Press , select the desired items: "Favorites", "TV" or "External Inputs", then press .
- 2 Select the desired TV channel or external inputs and press .

Listening to preset stations

- 1 Access to FM Radio Mode.
- 2 Press  and select "Settings".
Preset the desired FM radio station in "FM Radio Setup" from "Channel Setup" menu (see page 12).
- 3 Exit from "Channel Setup" menu by pressing . The selected preset FM radio station number and label will appear on the screen.

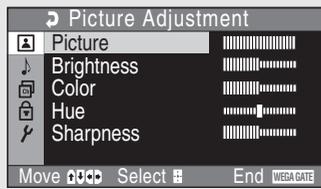
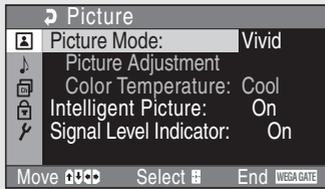
 You can also use the - on the remote control to directly select the desired preset FM radio station.

Listening to non-preset stations

- 1 Access to FM Radio mode.
- 2 Press  or  to search for the desired FM radio station. The preset number and label will not be displayed.
- 3 If the station has a weak signal, press  or  to fine tune the radio frequency manually.

 You can only operate , ,  and  functions using the remote control buttons in FM Radio mode.

Using the Picture Menu



Press **↓** to highlight an option; then press **+**.

Picture 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.

Custom: Select to get access for Picture Adjustment and Color Temperature Settings.



The options for Picture Adjustment and Color Temperature settings are only available when Picture Mode is set to the Custom option.



Press  on the remote control to directly select Picture Mode (Vivid, Standard and Custom).

Picture Adjustment

Use the **↑** or **↓** buttons to highlight one of the following options, then press **+** to select it.

Contrast: 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 Temperature

White intensity adjustment

Use the **↑** or **↓** buttons to highlight one of the following options, then press **+** to select it.

Cool: Gives white colors a blue tint.

Neutral: Gives white colors a neutral tint.

Warm: Gives white colors a red tint.

Intelligent Picture

Use the **↑** or **↓** buttons to highlight one of the following options, then press **+** to select it.

On: Select this option to get a better picture quality on channels with a noisy signal.

Off: Select this option to turn off Intelligent Picture.

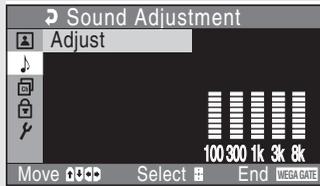
Signal level Indicator

Use the **↑** or **↓** buttons to highlight one of the following options, then press **+**.

On: Select this option if you want your TV displays indicator bar of the reception signal level of Video or current TV channel.

Off: Select this option if you do not want your TV displays indicator bar of the reception signal level of Video or current TV channel.

Using the Sound Menu



Press **↓** to highlight an option; then press **⊕**.

Sound Mode Select any of the modes: “**Dynamic**” (low and high tones), “**Standard**” (voice and high tones), or “**Custom**” (adjusts the settings to your preference).

 The Sound Adjustment option is only available when Sound Mode is set to Custom.

 In Video you cannot access MTS.

Effect Use the **↑** or **↓** buttons to highlight one of the following options, then press **⊕** to select it.

Surround: Theater quality sound for stereo programs.

Simulated: Simulates the stereo sound of movie theaters for mono programs.

Off: Mono or normal stereo reception.

 Press  to directly select Effect settings (Surround, Simulated, Off).

Balance Press **←** to emphasize the left speaker. Press **→** to emphasize the right speaker.

Steady Sound Use the **↑** or **↓** buttons to highlight one of the following options, then press **⊕** to select it.
Stabilizes volume

On: Select to stabilize the volume when changing channels.

Off: Select to turn Steady Sound off.

MTS Use the **↑** or **↓** buttons to highlight one of the following options, then press **⊕**:
Multi-Channel TV Sound

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

Using the Channel Setup Menu



Press **↓** to highlight an option; then press **⊕**.

Favorite Channels

Quick access to favorite channels

- 1 Press **↑** or **↓** to highlight the position (1 to 8) where you want to set a favorite channel, then press **⊕**.
- 2 Press **↑** or **↓** to find the channels 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 – 8).
- 4 To remove a channel from the Favorite Channels menu select the channel while pressing **⊕** and then press .
- 5 Press **←** to return to the Channel Setup menu or press  to exit.



To use the Favorite Channels option: Exit all the 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 the Cable setting the first time, you will need to run Auto Program.

Auto Program

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

Channel Edit

Use this function after executing Auto Program to remove channels you don't want or to add new channels.

- 1 Press **↑** or **↓** to select the position of the desired channel and then press **⊕**.
- 2 Press **⊕** to select "Name" and then press **↑** or **↓** to show the first letter or number of the label and then press **→**. To move to the next space. Repeat this process until you have selected all of the letters.
- 3 Press **→** to show "Skip" and then press **⊕**. Press **↑** or **↓** to select "Yes" if you want to delete the channel or "No" if you want to activate the channel.
- 4 Press **←** to return to the Channel Setup menu or press  to exit.

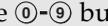
FM Radio Setup

Preset up to nine FM radio stations. You can manually preset FM radio stations that can be received in your area and then store the radio frequency of the desired FM radio stations.

- 1 Press **↑** or **↓** to select the desired FM radio station position, then press **⊕**.
- 2 Press **↑** or **↓** to search the FM radio stations. Searching stops automatically when a station is tuned in. If the station has a weak signal, press **←** or **→** to fine tune the radio frequency manually, then press **⊕** to store the FM radio station.
- 3 You may edit the FM radio station label. Press **↑** or **↓** to select alphanumeric characters for the label, then press **⊕**.
- 4 Repeat steps 1 through 3 to preset other FM radio stations.

Using the Parental Control Menu

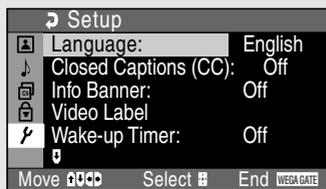


Use the  buttons to enter a 4-digit password. Confirm password, then press  to continue.

Select one of the following options:

Channel Block	Off:	Gives access to the blocked channel you have selected.
	Custom:	Allows you to block or permit access to channels.
Change Password		Use the  buttons to create a new 4-digit password.

Using the Setup Menu



Press  to highlight an option; then press .

Language	Display all menus in the language of your choice. Use the  or  buttons to select from one of the following options: English and Español (Spanish). Then press  .
Closed Captions (CC) <i>Closed captioning</i>	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. Off: Caption Vision is not activated. CC1, 2, 3, 4: Displays printed dialog and sound effects of a program. Text 1, 2, 3, 4: Display network/station information.
Info Banner	Displays the name of the current program and its remaining time (if available). Use the  or  buttons to highlight: On or Off . Then press  .
Video Label <i>Label connected equipment</i>	Allows you to identify the video components connected to the TV: VCR, DVD etc. When you press  to switch inputs, the Video Label appears on screen. 1 Press  or  to highlight the input you want to label and press  . 2 Press  or  to highlight a label and press  . 3 Press  to return to the Setup menu or press  to exit.
Wake-up Timer	Set TV to turn on automatically according to the desired period of time (from 10 minutes to 12 hours). The  indicator on TV lights up amber ones you set the wake up timer. To cancel, press until No appears.
Sleep	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, 75 or 90) that you want the TV to remain on before shutting itself off automatically. To cancel, press until Sleep Off appears.
16:9 Enhanced	Provides enhanced picture resolution for wide-screen sources such as DVD.

Other Information

Troubleshooting

If you have problems with your TV, try the suggestions below. If the problem persists, see the information at the end of this section.

General

I want to reset the TV to the factory settings	<input type="checkbox"/> Turn on the TV. While holding down the RESET button on the remote control, press the POWER button on the upper panel of the TV (the TV will turn off). Release the RESET button. Turn on the television.
The TV is dirty	<input type="checkbox"/> Clean the TV with a soft dry cloth. Never use strong solvents such as alcohol or benzene, which might damage the finish of the cabinet.
There is a “Black box” on the screen	<input type="checkbox"/> You have selected a text option in the Setup Menu (page 13) and no text is available. To turn off this feature, set the Closed Captions (CC) option to Off. If you wish to see subtitles, select CC1-4 instead of Text1-4.
I forgot the Parental Control password	<input type="checkbox"/> Enter the following master access code: 4357. After using the master password, you must create a new access code. You cannot use the master to unlock currently blocked channels.

Remote Control

I cannot operate the remote control	<input type="checkbox"/> Check the orientation of the batteries. <input type="checkbox"/> The batteries may be weak. Replace them (page 1). <input type="checkbox"/> Move the TV three to four feet away from fluorescent light.
I cannot change channels with the remote control	<input type="checkbox"/> 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.	<input type="checkbox"/> You can use the buttons on the upper panel to access the menus (page 1). Contact your local Sony authorized dealer to request a replacement.

Picture

No picture, no sound	<input type="checkbox"/> Make sure the power cord is plugged in. <input type="checkbox"/> 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 contact your local service center. <input type="checkbox"/> Verify the TV/VIDEO setting: when watching TV, set it to TV; when you watch video, select Video 1, 2 or 3 (page 2). <input type="checkbox"/> Try another channel to make sure there is no problem with the signal.
Poor or no picture, good sound	<input type="checkbox"/> Adjust the Contrast in the Picture Menu (page 10). <input type="checkbox"/> Adjust the Brightness in the Picture Menu (page 10). <input type="checkbox"/> Check the antenna and/or cable connections (page 4).
Poor color or sharpness of the picture	<input type="checkbox"/> Adjust the Color in the Picture Menu (page 10). <input type="checkbox"/> Adjust the Sharpness in the Picture Menu (page 10). <input type="checkbox"/> Make sure that “Intelligent Picture” is set to “Off” in Picture Menu (page 10).
No color	<input type="checkbox"/> Adjust the Color in the Picture Menu (page 10).

No signal	<input type="checkbox"/> Check the Cable setting in the Channel Setup Menu (page 12). <input type="checkbox"/> Check the connections to the antenna or pay television source (page 4). <input type="checkbox"/> Make sure that the channel selected is broadcasting a signal.
Dotted lines or stripes	<input type="checkbox"/> Adjust the antenna. <input type="checkbox"/> Move the TV away from other electronic equipment. Some electronic equipment creates electrical noise, which can interfere with TV reception.
Double images or ghosts	<input type="checkbox"/> Check the outdoor antenna and its orientation, or call technical support for your pay television service.

Sound

Good picture, no sound	<input type="checkbox"/> Press MUTING so that Muting disappears from the screen (page 2). <input type="checkbox"/> Check the Sound Mode settings. The television may be set to Auto SAP (page 11).
TV cannot receive FM Radio stations	<input type="checkbox"/> Connect a separate FM antenna and the TV channel source through an antenna selector (switch) to your TV.

Channels

I cannot receive higher number channels (UHF) when using an antenna	<input type="checkbox"/> Make sure that Cable is set to Off in the Channel Setup Menu (page 12). <input type="checkbox"/> Perform Auto Program to add channels that are not presently in the memory (page 7).
Cable stations don't seem to work	<input type="checkbox"/> Make sure that Cable is set to On in the Channel Setup Menu (page 12). <input type="checkbox"/> Perform Auto Program to add channels that are not presently in the memory (page 7).

If after reading this instruction manual you have more questions about the use of your Sony television, contact your local Sony authorized dealer to get technical assistance or visit our internet page <http://www.sony.net/>.

Specifications

Television System	American TV standard/NTSC
Channel Coverage	VHF: 2-13/UHF: 14-69/CATV: 1-125
Picture tube	FD Trinitron® tube
Power Requirements	120 V AC, 60 Hz
Accessories included	2 AA batteries 1 Remote control RM-YA005 1 Dipole antenna 1 Converter (EAC-25)
Inputs	1 video, 1 audio (front panel) 1 YPBPR, 1 audio (rear panel) 1 VHF/UHF (rear panel) 1 video, 1 audio (rear panel)
Outputs	1 Headphone (front panel) 1 Monitor (rear panel)
Screen size	Actual Screen Size: 21 inches (533.4 mm) measured diagonally Visible Screen Size: 20 inches (508 mm) measured diagonally
Speaker output	5 W x 2
Power consumption	108 W Less than 1W in standby
Dimensions (W/H/D)	25 1/2 x 18 7/16 x 20 inches (647 x 469 x 509 mm)
Mass	54.2 lbs. (24,6 kg)

Design and specifications are subject to change without notice.

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For Your Convenience

Please contact Sony directly if you:

- Have questions on the use of your television after reading your manual
- Experience difficulty operating your television

Contact Sony Customer Support at:

<http://www.sony.com/tvsupport>

or call the phone number that appears on your warranty card.

Sony will work to resolve your questions more quickly than your retailer or place of purchase.

Please Do not Return the Product to the Store



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