SONY_®

FD Trinitron WEGA®

Operating Instructions

KV-20FA210

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WARNING

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





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

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

Note to the CATV Installer

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

SAFETY PRECAUTIONS

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

CAUTION

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



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

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

NOTIFICATION

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

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

Protecting the TV

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

Note on Caption Vision

This television receiver 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.



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

WEGA[®], FD Trinitron, Caption Vision, Dynamic Bass Response System and Steady Sound are registered trademarks of Sony Corporation.

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

"WOW and the $(\bullet)^{\circ}$ symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc."

IMPORTANT SAFEGUARDS

For your protection, please read these instructions completely, and keep this manual for future reference. Carefully observe and comply with all warnings, cautions and instructions placed on the set, or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use, and servicing of the set.

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 ĥazard.

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 unstâble 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

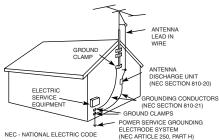
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

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.

CRACKED PLUG

- If the set has been exposed to rain or water.
 - If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- When the set exhibits a distinct change in performance — this indicates a need for service.

Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.









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Introduction

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

Introducing the FD Trinitron WEGA[®] Features

Some of the features you will enjoy include:

- □ **FD Trinitron Flat CRT** Delivers a picture with uncompromising accuracy and outstanding image detail via a technologically advanced tube.
- **Dynamic Bass Response System** Enhances low-frequency sounds with a powerful subwoofer. New and exclusive from Sony.
- □ **Y**, **P**_B, **P**_R **Inputs** Provides component video inputs for superior picture quality (480i only).
- □ **WOW** Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is directly activated to further enhance the audio performance.
- **BBE** Gives sound more impact by using audio technology to compensate for phase effects in speakers.
- **Parental Control (V-Chip)** Helps parents monitor what their children watch on TV by establishing rating limits.
- **Favorite Channels** Provides instant access to your favorite channels with the touch of a button.
- **XDS** Displays the name and the remaining time of the current program, if available.
- □ **Universal Remote Control** Operates your connected cable box, VCR, digital satellite receiver, or DVD player.
- **Energy Star**[®] Meets the Energy Star guidelines for energy efficiency.
- **Front Panel Controls** Allows access to the on-screen menus without the use of a remote control.
- □ **Front A/V Inputs** Lets you quickly connect video games, camcorders, or stereo/mono equipment.

About this Manual

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

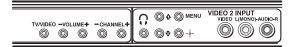
Batteries for the Remote Control

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



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

Front Panel Menu Controls



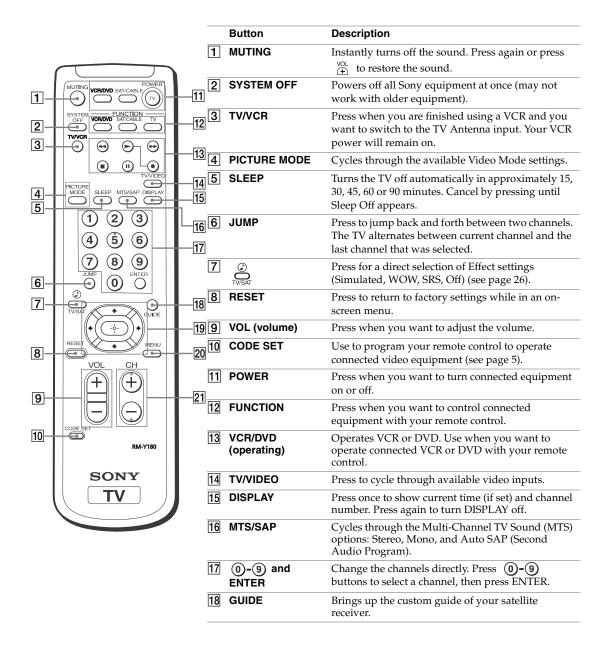
The front Audio/Video panel controls allow you to access the menu without the remote control.

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

Ito navigate the menus with your remote control, see "Using the Menus" on page 23.

Using the Remote Control

Remote Control Description



Button	Description
	Moves the cursor in the on-screen menus. Press the arrow buttons to move the cursor. Press the center button to select or access an option.
20 MENU	Displays the on-screen menu. Press again to exit the menu at any time.
21 CH (channel)	Press when you want to change channels.

🖉 If you lose your remote control, see page 40.

Programming the Remote Control

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

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

 \swarrow The $\overset{\text{VCR/DVD}}{\longrightarrow}$ and $\overset{\text{saticable}}{\longrightarrow}$ button will flash when you press $\overset{\text{CODE SET}}{\longrightarrow}$.

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

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

- **4** Use the **()-()** buttons to enter the three-digit manufacturer's code number.
- **5** Press \bigcirc^{ENTER} .
- **6** To check if the code number works, aim the TV's remote control at the component and press on the green POWER button (VCR/DVD, SAT/CABLE, TV) that corresponds with that component. If it responds, you are done. If not try using another code listed for that manufacturer.

🖄 If you have problems programming your remote control, see "Troubleshooting" on page 39.

Manufacturer's Codes

VCRs

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/ MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337

Manufacturer	Code
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/ PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Laserdisc Players

Code	
701	
704,710	
702	
	701 704, 710

DVD Players

751 758
758
756
757
761
762
759
753
757
752
755
758
754
760

Cable Boxes

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

Satellite Receivers

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

Using your TV Remote Control with Other Equipment

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

Operating a VCR

Operating a DVD Player

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

Operating a Laser Disc Player

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

Operating a Satellite Receiver

Press	То
SAT/CABLE	Power on the satellite receiver (SAT/CABLE green button)
0-9	Select a channel
	Change channels
JUMP	Back to previous channel
	Display channel number
GUIDE	Display SAT GUIDE
MENU	Display SAT Menu
	Use the arrow buttons to move the cursor in the menu, and the center button to select an option

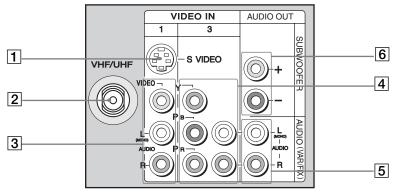
Operating a Cable Box

oporating a cable box			
То			
Power on the cable box (SAT/CABLE green button)			
Select a channel			
Change channels			
Change back to previous channel			

Connecting Your TV

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

TV Rear Panel

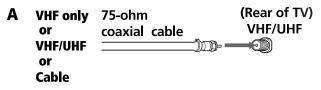


Jack	Description
1 S VIDEO	This input connects to the S VIDEO OUT jack on your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than the VHF/UHF jacks or the video input jack. S VIDEO does not provide sound, so you still must connect the audio cables.
2 VHF/UHF	This input connects to your VHF/UHF antenna or cable.
3 AUDIO L(MONO), R/ VIDEO	This input connects to the AUDIO/VIDEO output jacks on your VCR or other video equipment. A third video input jack (VIDEO 2) is located on the front panel of the TV. These AUDIO/VIDEO input jacks provide better picture quality than the VHF/UHF jack.
4 Y, Pв, Pв/ L(MONO), R	This input connects to the component video Y, P _B , P _R , and AUDIO L(MONO), R jacks on your DVD player or digital settop box (480i only).
5 AUDIO OUT (VAR/FIX) L(MONO), R	This jack connects to the Audio input jacks on your audio equipment. You can listen to your TV's audio through your stereo system.
6 Dynamic Bass Response System	The Dynamic Bass Response System (subwoofer) accentuates the low frequencies for better overall sound.
🖉 Only the supplied Dyna	mic Bass Response System unit should be connected to the KV-20FA210 Sony

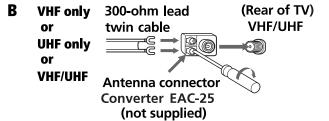
Basic Connections

TV with Cable, Indoor, or Outdoor Antenna

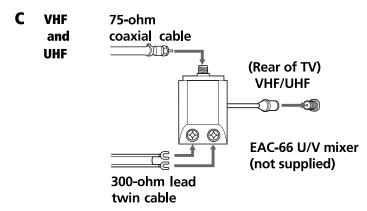
Depending on the cable system available in your home, choose one of the connections below:



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



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

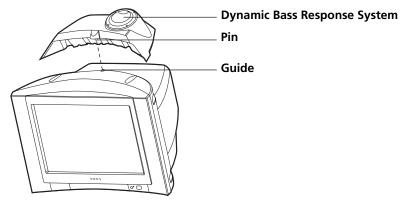


This allows you to connect your TV to both a cable system and a dipole antenna, in order to view both cable and local channels.

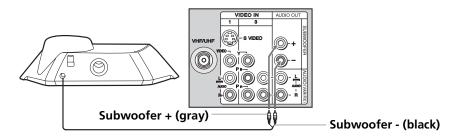
If you are connecting to an indoor or outdoor antenna, you may need to adjust the orientation of the antenna for the best reception.

Dynamic Bass System Connection (Subwoofer)

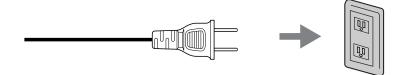
- Make sure to **disconnect** the TV before connecting the Dynamic Bass Response System.
- Only the supplied Dynamic Bass Response System unit should be connected to the KV-20FA210 Sony TV inputs (SUBWOOFER +/-).
- 1 Introduce the support pin of the Dynamic Bass Response System into the guide located on top of the TV.



2 Connect the Dynamic Bass Response System cables to the indicated inputs of the TV rear panel. Connect the gray cable to the SUBWOOFER ⁽◎)+ (gray input). Connect the black cable to the SUBWOOFER ⁽◎)- (black input). See illustration below.



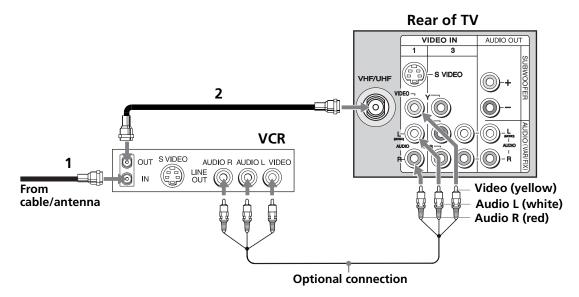
3 Once installation is complete, plug the TV's AC power cord into the wall socket.



Do not plug in the AC power cord until the subwoofer is completely installed.

Connecting Additional Equipment

Connecting a TV and VCR



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

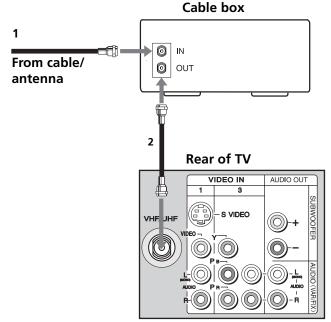
Optional connection

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

Using your TV with this connection

- □ Program your Sony remote control to operate your VCR (see page 5).
- □ To activate your remote, press → to operate your VCR. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 28).
- □ Press control repeatedly to switch between VCR input (VIDEO input) and VHF/UHF (local channels).

TV and Cable Box

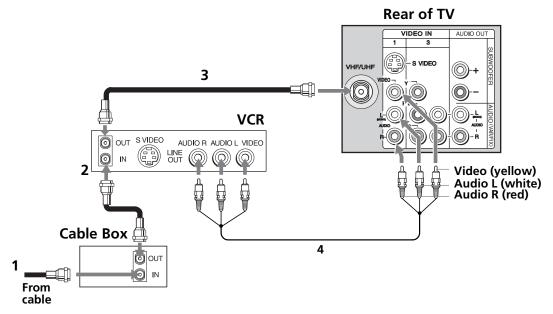


- 1 Connect the coaxial cable from your cable service to the IN jack on your cable box.
- **2** Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the VHF/UHF jack on your TV.

Using your TV with this connection

- □ Program your Sony remote control to operate your cable box (see page 5).
- □ To activate your remote press ^{SATICABLE} to operate your cable box and then use the **()**-**()** buttons or CH+/- buttons to change the channels. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 28).

TV, VCR, and Cable Box



- 1 Connect the coaxial cable from your cable service to the IN jack on your cable box.
- **2** Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the IN jack on your VCR.
- **3** Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF jack on the TV.
- **4** If your VCR is equipped with video outputs, you can get better picture quality by connecting audio/video cables (not supplied) from AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.

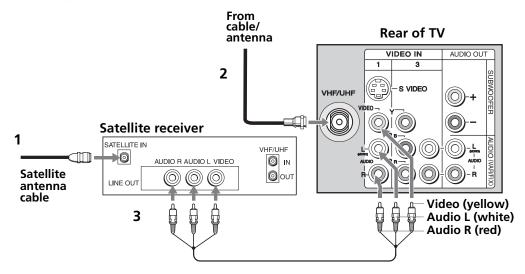
Optional connection

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

Using your TV with this connection

- □ Program your Sony remote control to operate your VCR or cable box (see page 5).
- □ To activate your remote, press ^{VCR/DVD}/_C to operate your VCR or ^{SAT/CABLE}/_C to operate your cable box. To do this, first program your remote control, then use the Channel Fix feature to set your TV to channel 3 or 4 (see page 28).
- □ Press ^{TWDED} repeatedly to switch between VCR input (VIDEO input), VHF/UHF (local channels or unscrambled), or cable box (cable system or scrambled channels).

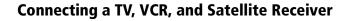
Connecting a TV and Satellite Receiver

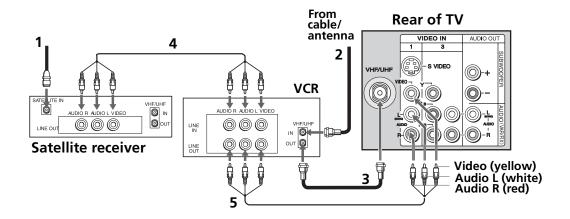


- **1** Connect the cable from your satellite antenna to SATELLITE IN on your satellite receiver.
- **2** Connect the coaxial cable from your cable service or antenna to the VHF/UHF jack on your TV.
- **3** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to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

Using your TV with this connection

- □ Program your Sony remote control to operate your satellite receiver (see page 5).
- □ To activate your remote, press ^{SATICABLE} to operate your satellite receiver. See page 7 on how to operate other functions.
- \Box Press $\overset{\text{TWDEO}}{\bigcirc}$ repeatedly to switch to satellite receiver input (VIDEO input).





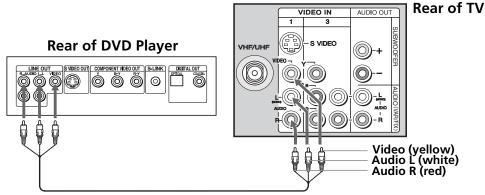
- **1** Connect the coaxial cable from your satellite antenna to SATELLITE IN on the satellite receiver.
- **2** Connect the coaxial cable from your cable service or antenna to the IN jack on your VCR.
- **3** Using a coaxial cable (not supplied), connect the OUT jack on your VCR to the VHF/UHF jack on your TV.
- **4** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your satellite receiver to AUDIO/VIDEO IN on your VCR.
- **5** Using audio/video cables (not supplied), connect AUDIO/VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.
 - To view from the satellite receiver or VCR, select the video input to which your satellite receiver or VCR is connected by pressing $\stackrel{\text{TVMDEO}}{\longrightarrow}$ on the remote control.

Using your TV with this connection

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

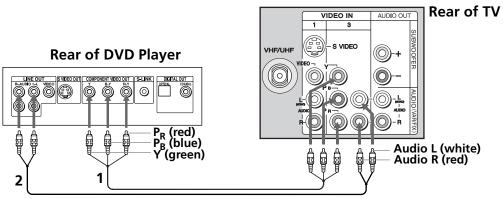
Connecting a DVD Player

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



Optional connection

- □ For better picture quality, use S VIDEO instead of the yellow video cable. S VIDEO does not provide sound, so you still must connect the audio cables.
- □ If your DVD player is equipped with component video outputs (Y, P_B, P_R), you can improve the picture quality by using component video cables (480i only).



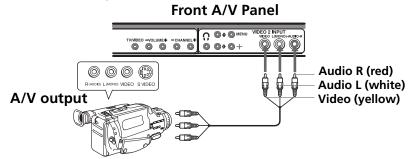
- **1** Using component video cables (not supplied), connect the Y, P_B, P_R OUT on your DVD player to Y, P_B, P_R IN on your TV.
- 2 Connect AUDIO OUT on your DVD player to AUDIO IN on your TV.
- The Y, PB, PR outputs on your DVD player are sometimes labeled Y, CB, and CR or Y, B-Y, and R-Y. If so,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

Using your TV with this connection

- □ Program your Sony remote control to operate your DVD (see page 5).
- □ To activate your remote, press Oreford to operate your DVD.
- □ Press ^{TWDEO} repeatedly to switch to the DVD player's input (VIDEO input).

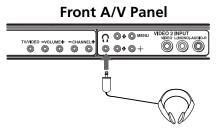
Connecting a Camcorder

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



Connecting Headphones

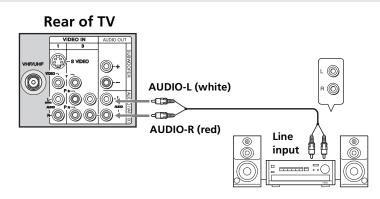
Connect the headphones to the \bigcap jack on the front Audio/Video panel. Headphone jack is STEREO.



Connecting an Audio System

- 1 Using audio/video cables (not supplied), connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE2) on your stereo.
- 2 Set the Speaker option to Off. For more instructions, see "Using the Audio Menu" on page 27.
- **3** Open the Audio Out option on the Audio Menu and select Fixed to control the volume through the connected audio system. For more instructions, see "Using the Audio Menu" on page 27.

🖾 For this connection you don't need to disconnect Dynamic Bass Response System.



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.

- Mu 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 $\bigcap_{n=1}^{\text{POWER}}$ to turn on the TV. The Initial Setup screen appears.



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 \bigcirc^{MENU} .
- **2** Press ⇒ to highlight Channel Setup menu.
- **3** Press \checkmark 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 \triangledown to highlight Auto Program. Press \bigcirc to search for channels.
- **6** After Auto Program finishes, press $\stackrel{\text{MENU}}{\frown}$ to exit.

To reset the TV to factory settings

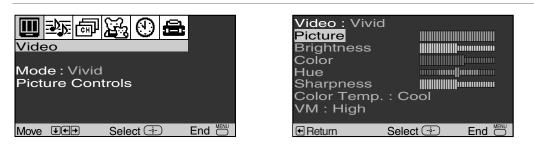
- 1 Turn the TV on.
- **2** Hold down $\stackrel{\text{RESET}}{\bigcirc}$ on the remote control.
- **3** Press and release the POWER button on the TV front panel. The TV will turn itself off, then back on.
- **4** Release \bigcirc^{RESET} .

Quick Start to the Menus

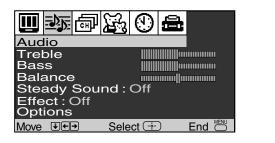
The following settings are available in your on-screen menus:

Menu

Allows you to



Adjust your picture settings.



Options		
MTS : Ster Speaker : C Audio Out	Dn	
	Select	

Change your audio settings.



Customize your channel settings.

Menu	Allows you to
Parsword :	
Move It Select · End	Set rating limits on your TV based on program rating or content.
Image: Constraint of the second se	Set the clock on your TV and program scheduled viewing using Timer 1 and Timer 2.
Image: Select Image: Select Setup Caption Vision : Off Video Label Tilt Correction Language : English Demo	Select captioning options, label video inputs, adjust tilt correction, select menu language, or run a demo of the menus.

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Using the Menus

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

How to Access Menus

To Access Menus

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ to display the on-screen menu.
- **2** Use the \Leftrightarrow or \Rightarrow buttons to highlight the desired menu icon. Press \bigcirc to select it.
- **3** Use the ☆ or ∜ buttons to scroll up and down through the features.
- **4** Follow the instructions on the screen.
- **5** For instructions on using a specific menu, see the page in this section that talks about that menu.
- **6** Press \bigcirc^{MENU} to exit the menu.

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

Using the Video 🎹 Menu

To access the Video menu, use the following steps:

To Display	To Select	Uideo
MENU	•	Mode : Vivid Picture Controls
Press ♥ to high	nlight an option; then press $$.	Move 🕀 🗭 Select 🕂 End 📛
Mode <i>Customized</i> <i>picture viewing</i>	press $$ to select it.	etailed picture.

Press 🚾 on the remote control for direct access to the picture modes (Vivid, Standard, Movie, Sports).

Picture Controls Menu (Video menu)

To access the Picture Contr the following steps:	rols menu, first open the	Video menu by ref	ferring to
To Display	To Select	Video : Vivid Picture	
MENU		Brightness Color	
┣ →		Hue Sharpness Color Temp. : VM : High	
Press ∜ to highlight Picture	Controls, then press 🚗.		Select 🕂 End 💾

Press \Leftrightarrow to decrease the contrast. Press \Rightarrow to increase contrast.			
Press \Leftrightarrow to darken the picture. Press \Rightarrow to brighten the picture.			
Press ⇔ to decrease color saturation. Press ⇔ to increase color saturation.			
Press \Leftrightarrow to increase the red tones. Press \Rightarrow to increase the green tones.			
Press \Leftrightarrow to soften the picture. Press \Rightarrow to sharpen the picture.			
Image: Image			
Sharpens picture definition to give objects a crisp, clean edge. Use the \triangle or \heartsuit buttons to highlight one 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:



Press ⇔ to decrease the higher pitched sounds. Press ⇔ to increase the higher pitched sounds.			
Press ⇔ to decrease the lower pitched sounds. Press ⇔ to increase the lower pitched sounds.			
Press ⇔ to emphasize the left speaker. Press ⇔ to emphasize the right speaker.			
teady Press ☆ or ♥ to select one of the following options, then press ♀ ound select it. abilizes On: Select to stabilize the volume when changing channe lume Off: Select to turn Steady Sound off			
Use the \triangle or \heartsuit buttons to highlight one of the following options, then press \bigcirc to select it.			
WOW: Provides a dramatic presence with a full, deep bass s When WOW is enabled, BBE is directly activated to			
SRS: Produces a dynamic three dimensional sound for ste audio signals.	ereo		
	 higher pitched sounds. Press \$\Rightarrow\$ to decrease the lower pitched sounds. Press \$\Rightarrow\$ to increase lower pitched sounds. Press \$\Rightarrow\$ to emphasize the left speaker. Press \$\Rightarrow\$ to emphasize the rightarrow speaker. Press \$\Rightarrow\$ or \$\Fractornow\$ to select one of the following options, then press \$\vec{4}\$ select it. On: Select to stabilize the volume when changing channes \$\vec{6}\$ Select to turn Steady Sound off. Use the \$\Phi\$ or \$\Fractornow\$ buttons to highlight one of the following options, press \$\vec{6}\$ to select it. Simulated: Simulates stereo quality sound for mono programs. WOW: Provides a dramatic presence with a full, deep bass as \$\Vec{6}\$ When WOW is enabled, BBE is directly activated to an enhance the audio program. SRS: Produces a dynamic three dimensional sound for stereo \$\vec{6}\$ to the following options of \$\Pmi\$ to the select it for \$\Pmi\$ options of \$\Pmi\$ to select the select it \$\vec{6}\$ to select it. 		

Options (Audio Menu)

To access the Options menu, first open the Audio menu by referring to the following steps:

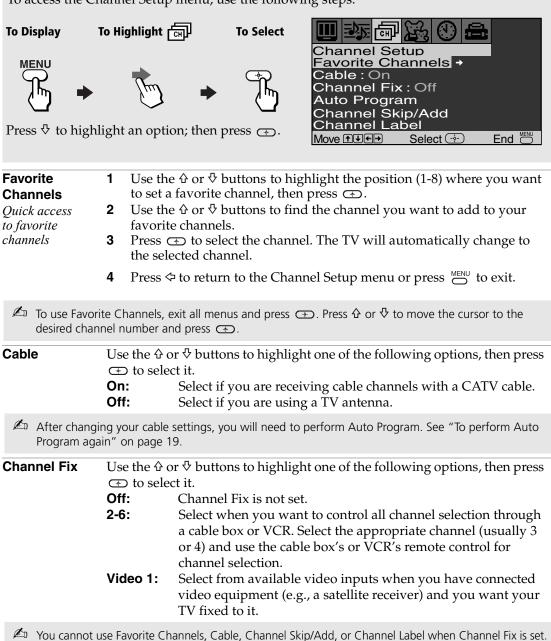
To Display	To Highlight =		To Select	Options MTS : Ste	reo	
	•	•	F	Speaker : Audio Out	On	
Press \clubsuit to highlight Options, then press $\textcircled{+}$.				Select 🕂		

MTS Multi-Channel	Use the \triangle or ∇ buttons to highlight one of the following options, then press \bigcirc to select it.				
TV Sound	Stereo: Select when viewing a broadcast in stereo.				
	Auto SAP:	Select to have the TV automatically to a Second Audio Program (SAP) when a signal is received.			
	Mono:	Select to reduce noise in areas of poor reception.			
Press OTS/SAP	for direct MTS settings (Stereo, Auto SAP, Mono).				
		P, some programs may be muted or distorted. If your TV does not output setting to Stereo or Mono.			
Speaker Custom	Use the ☆ o press ⊕ t	or ♥ buttons to highlight one of the following options, then o select it			
selection of audio output	On:	Select to listen to the sound from the TV speakers with or without a separate stereo system.			
source	Off:	Select to turn off the TV speakers and listen to the TV's sound only through external audio system speakers.			
Audio Out	Use the $ riangle$ or $ riangle$ buttons to highlight one of the following options, then				
Use to control	press 🕤 t				
the TV's volume	Variable:	Adjust the volume through your TV.			
through a stereo	Fixed:	Adjust the TV volume through a connected stereo.			
An Audia Out a	attings can apl	u ha cat when Speaker is set to Off			

Audio Out settings can only be set when Speaker is set to Off.

Using the Channel Setup 📾 Menu

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



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.
	 Use the ☆ or ♥ buttons to highlight the position of the desired channel, then press ↔. Use the ☆ or ♥ buttons to highlight Skip or Add, then press ↔.
	3 Press \Leftrightarrow to return to the Channel Setup menu or press $\stackrel{\text{MENU}}{\bigcirc}$ to exit.
	or CH - to skip over channels that have been skipped. You can still use the @ - ⑨ buttons ine to skipped channels.
Channel Label <i>Label up to 40</i> <i>channels with</i> <i>their call letters</i>	 Press ⊕, then use the ☆ or ∜ buttons until you reach the desired channel number. Press ⊕ to activate the channel. 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. When finished, press ⊕ to activate.
	5 Press \Leftrightarrow to return to the Channel Setup menu or press \bigcirc to exit.

Using the Parental Control 😹 Menu

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

To Display	1	fo Highlight 🦕	2 E	To Select	
MENU	•	The	•	لىسى ئىلى	Password :
		\bigcirc			Use [0-9] buttons to enter new password Move 1 • Select - End

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

To use the Parent Menu

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

- **1** Use the **0**-**9** buttons to enter a 4-digit password.
- **2** Confirm your password by entering it again.
 - Keep this manual in a safe place. You need your password for any future access to the Parental Control menu. If you forget your password, see page 39.

Parental Control

Setting the Rating

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



1 Press \checkmark to highlight **Lock**; then press \bigcirc .

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

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

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

Changing your Password

- **1** Use the \triangle or \forall buttons to highlight **Change Password** and press \bigcirc .
- **2** Follow steps 1 and 2 for "Using the Parental Control Menu" on page 30.

Select a Country

Select U.S.A. to use US ratings (see page 33-34) or select Canada to use Canadian ratings (see page 35). 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 \checkmark to highlight **Country**, then press \bigcirc .
- **2** Use the \triangle or \forall to highlight the desired country and press \bigcirc .

Information for Parents

To view a program that exceeds the TV rating

- \Box Press \bigcirc^{ENTER} , then use the \bigcirc - \bigcirc buttons to enter your password.
 - Entering your password to view a blocked program will temporarily turn Lock to Off. To reactivate your Lock settings, turn the TV off then back on; the TV will return to the settings that you have selected.

Using the Custom Menu

Follow the instructions on the screen to make your custom settings. Select the country desired for your TV's rating limit. See page 33 for U.S. models and page 35 for Canadian models for more information.

Drice 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 35.)

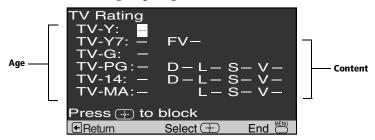
Movie Rating

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

Rating	Defined as	Movie Rating
G	General audience	G:
PG	Parental guidance suggested	PG: – PG-13: –
PG-13	Parents strongly cautioned	R: – NC-17: –
R	Restricted	X: –
NC-17	No one 17 and under admitted	Press 🐳 to block
X	Adult audience only	← Return Select → End

TV Rating

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



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

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

Unrated

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

Allow	Allows all unrated programs	Custom Rating	
Block	Blocks all unrated programs	Movie Rating TV Rating Unrated : Allow	
		Choose a category Return Select Select End End	υ Ο

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

Canada: Selecting Custom Rating Options

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

English Rating

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

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

English F C : C8+ : G : PG :	Rating — — —	
14+: 18+:	_	
Press 🕂	to block	
Return	Select	End

French Rating

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

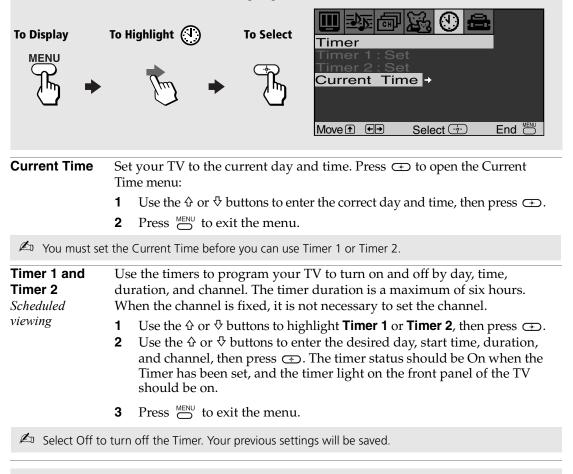
Rating	Defined as	French Rating
G	General	
8 ans+	Not recommended for younger children	G: 8 ans+: — 13 ans+: —
13 ans+	Not recommended for children under age 13	16 ans+ : — 18 ans+ : —
16 ans+	Not recommended for ages under 16	Press ⊕ to block • Return • Return
18 ans+	This program is restricted to adults	

U.S.A. Rating

For programs from the United States, see "TV Rating" on page 33.

Using the Timer 🕚 Menu

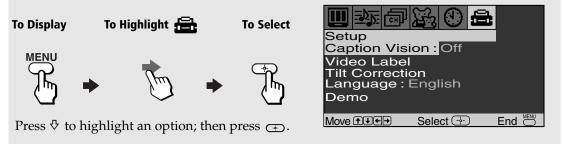
To access the Timer menu, use the following steps:



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:



Caption Vision Closed- Captioning	 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 	
Video Label Label connected equipment	 Allows you to identify the video components connected to the TV: VCR, DVD, etc. When you press TV/VIDEO to switch inputs, the Video Label appears on-screen. 1 Press the ☆ or ☆ buttons to highlight the input you want to label and press ↔. 2 Press the ☆ or ☆ buttons to highlight a label and press ↔. 3 Press ⇔ to return to the Setup menu or press menu to exit. 	
🖾 If you selec	t Skip , your TV skips this connection when you press the TV/VIDEO button.	
Tilt Correction	Use the \triangle or \heartsuit buttons to set the tilt of the picture from -5 to +5, then press \bigcirc 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 ↔.	
Demo	Press \bigcirc to run a demonstration of the on-screen menus.	
🖄 You can pre	ess any button to exit Demo mode.	

Other Information

Troubleshooting

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

General

Problem	Ро	ssible Remedies
I want to reset the TV to the factory settings		Turn on the TV. While holding down the RESET button on the remote control, press POWER button on the TV front panel. The TV will turn itself off, then back on again. Release the RESET button.
The TV is dirty		Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.
I lost the parental control password		In the password screen, enter the following master password: 4357. After using the master password, you must create a new password. You cannot use the master to unlock currently blocked channels.
There is a black box on the screen		You have selected a text option in the Setup menu (page 37) and no text is available. To turn off this feature, select Off in the Caption Vision option. If you were trying to select closed captioning, select CC1-4 instead of Text1-4.
There was a blackout or power outage, and now the TV won't turn on and the timer LED is flashing		Press the POWER button on your remote control or on the TV front panel.

Remote Control

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

Programming The Remote Control

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

Video

Problem	Possible Remedies				
No picture, no		Make sure the power cord is plugged in.			
sound		If a red light is flashing on the front of your TV for more than a few minutes, disconnect and reconnect the power cord. If the			
		problem continues, call your local service center.			
		Check the TV/VIDEO setting: when watching TV, set it to TV; when watching video equipment, set it to VIDEO 1, 2, 3, 4 or 5 (page 3).			
		Make sure you have inserted the batteries correctly into the remote control (page 2).			
		Try another channel to rule out station trouble.			
Poor or no picture,		Adjust the Picture setting in the Video menu (page 24).			
good sound		Adjust the Brightness setting in the Video menu (page 25).			
		Check the antenna and/or cable connections (page 10).			
No color		Adjust the Color setting in the Video menu (page 24).			
Only snow appears		Check the Cable setting in the Channel Setup menu (page 28).			
on the screen		Check the antenna and/or cable connections (page 10).			
		Make sure the channel selected is currently broadcasting.			
Dotted lines or		Adjust the antenna.			
stripes		Move the TV away from other electronic equipment. Some			
-		electronic equipment creates electrical noise, which can			
		interfere with TV reception.			
Double images or ghosts		Check your outdoor antenna or call your cable service.			

Audio

Problem	Possible Remedies			
Good picture, no	□ Press of that Muting disappears from the screen (page 3).			
sound	Check your Audio settings. Your TV may be set to Auto SAP in			
	the MTS feature (page 27).			
	□ Make sure the speaker option is set to On in the Audio Menu.			
	$\square Press \stackrel{\vee}{=} to adjust your TV's volume.$			

Dynamic Bass Response System (Subwoofer)

Problem	Possible Remedies		
No sound	 Check the SUBWOOFER +/- inputs on the rear panel of the TV to make sure the cables are connected correctly (see page 11). 		

Channels

Problem		Possible Remedies				
l cannot receive higher number		Make sure Cable is set to Off in the Channel Setup menu (page 28).				
channels (UHF) when using an antenna		Perform Auto Program to add channels that are not presently in the memory (page 19).				
Cable stations don't seem to work		Make sure Cable is set to On in the Channel Setup menu (page 28).				
		Perform Auto Program to add channels that are not presently in the memory (page 19).				
I cannot get anything but TV	iything Be sure that you did not set the video in the Setup mer (page 37) to skip your video inputs. If a video input has to Skip , it will be skipped when you press the TV/VII button.					

Contacting Sony

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

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

Specifications

American TV standard/NTSC						
VHF: 2-13/UHF: 14-69/CATV: 1-125						
75-ohm extern	75-ohm external antenna terminal for VHF/UHF					
FD Trinitron®	FD Trinitron [®] tube					
120V, 60 Hz						
Size AA (R6) batteries (2) Remote Control RM-Y180 (1)						
Inputs	1 video, 1 audio (front) 1 video, 1 audio (rear) 1 S VIDEO 1 RF 1 Y, PB, PR, 1 audio 1 headphone jack	Outputs	1 AUDIO OUT 1 Dynamic Bass Response System (Subwoofer)			
Connecting cables VMC-8105/820S, VMC-720M, YC-YC-15V/30V, RK74A EAC-66U/V mixer						
Visible screen size: 507 mm (20 inches) measured diagonally Actual screen size: 533.4 mm (21 inches) measured diagonally						
6 W x 2						
14 W						
145 W in use 1 W in standby						
609 x 488 x 503 mm (24 x 19 ¹ / ₄ x 20 inches)						
29 kg (63 lbs. 9.3 oz)						
	VHF: 2-13/UI 75-ohm extern FD Trinitron® 120V, 60 Hz Size AA (R6) Remote Contr Inputs Connecting ca YC-YC-15V/3 EAC-66U/V n Visible screen Actual screen 6 W x 2 14 W 145 W in use 609 x 488 x 50	$\begin{array}{c} \mbox{VHF: $2-13/UHF: $14-69/CATV: $1-125$}\\ \mbox{75-ohm external antenna terminal for VHF}\\ \mbox{FD Trinitron® tube}\\ \mbox{120V, 60 Hz}\\ \mbox{Size AA (R6) batteries (2)}\\ \mbox{Remote Control RM-Y180 (1)}\\ \mbox{Inputs} & 1 video, 1 audio (front) \\ 1 video, 1 audio (front) \\ 1 video, 1 audio (rear) \\ 1 S VIDEO \\ 1 RF \\ 1 Y, PB, PR, 1 audio \\ 1 headphone jack \\ \mbox{Connecting cables VMC-810S/820S, VMC-YC-YC-15V/30V, RK74A \\ EAC-66U/V mixer \\ \mbox{Visible screen size: 507 mm (20 inches) mea \\ Actual screen size: 507 mm (21 inches) m \\ 6 W x 2 \\ \mbox{14 W} \\ \mbox{145 W in use 1 W in standby} \\ \mbox{609 x 488 x 503 mm (24 x 19^1/4 x 20 inches) \\ \end{tabular}$	VHF: 2-13/UHF: 14-69/CATV: 1-12575-ohm external antenna terminal for VHF/UHFFD Trinitron® tube120V, 60 HzSize AA (R6) batteries (2) Remote Control RM-Y180 (1)Inputs1 video, 1 audio (front) 1 video, 1 audio (rear) 1 S VIDEO 1 RF 1 Y, PB, PR, 1 audio 1 headphone jackConnecting cables VMC-810S/820S, VMC-720M, YC-YC-15V/30V, RK74A EAC-66U/V mixerVisible screen size: 507 mm (20 inches) measured diag Actual screen size: 533.4 mm (21 inches) measured diag 6 W x 214 W145 W in use 1 W in standby 609 x 488 x 503 mm (24 x 19 ¹ /4 x 20 inches)			

Design and specifications are subject to change without notice.

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Video Label 37

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