WARNING
To prevent fire or shock hazard, do not expose the projection TV to rain or moisture.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION
RISQUE DE CHOCS ELECTRIQUES,
NE PAS OUVIR

PRECAUCION
RIESGO DE CHOQUE ELECTRICO
NO ABRIR

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER ( OR BACK ).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

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

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

CAUTION
When using TV games, computers, and similar products with your projection TV, or viewing a TV station whose logo always stays on the screen, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern such as a station logo is left on the screen for long periods of time, especially at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty.

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

Note to CATV system 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.

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

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

- 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.

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

This document is for the remote control RM-Y908.
Please keep this notice with the instruction manual.
Safety

- Operate the projection TV only on 120 V AC.
- The plug is designed, for safety purposes, to fit into the wall 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 should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- For details concerning safety precautions, see “Important Safeguards” on page 4.

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperature below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.

Note on convergence adjustment

Before you use your projection TV, make sure to adjust convergence. For details, see “Adjusting the Convergence Automatically – FLASH FOCUS™ –” on page 33.

TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and is protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

ATTENTION

Pour prévenir les chocs électriques, ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent tre insérées à fond sans en laisser aucune partie à découvert.

Owner’s Record

The model and serial numbers are located at the rear of the projection TV, below the Sony logo, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. ________________________
Serial No. ________________________

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

ENERGY STAR® is a U.S. registered mark.
Important Safeguards

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

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

Use

Power Sources
This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

Grounding or Polarization
This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the set with a polarized AC power cord plug
This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug 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 being 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.

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.

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.

Cleaning
Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.
**Installation**

**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, 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 projection TV. 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**
Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.
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.
- 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, it indicates a need for service.

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

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

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

For Safety

Be careful when moving the projection TV
When you place the projection TV in position, be careful not to drop it on your foot or fingers.

Watch your footing while installing the projection TV.

Carry the projection TV in the specified manner
If you carry the projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

- Carry the projection TV with the specified number of persons. (see page 10)
- Do not carry the projection TV holding the speaker grill.
- Hold the projection TV tightly when carrying it.
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Introducing the Sony Projection TV

Presenting the Sony Projection TV

Thank you for purchasing the Sony Projection TV. This manual is for models KP-43HT20, KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30. Model KP-53HS30 is used for illustration purposes.

Features

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

- **Hi Scan 1080™**: Enables you to receive the 1080i, 720p, 480p and 480i digital TV formats. By using the VIDEO 5/6 IN jacks, you can connect a DTV (digital television) receiver to view DTV programs.

- **DRC™ Multi-Function**: Unlike conventional line doublers, the DRC feature doubles vertical and horizontal lines, resulting in four times the density for quality sources such as DVD, Satellite and Digital camcorder.

- **CineMotion™**: Using the 2-3 Pull-Down technology, the CineMotion feature allows you to obtain a smooth picture movement when playing back movies or other video sources on film.

- **Twin View™**: Using Multi-Image Driver (MID-X), Twin View allows you to watch two programs side by side with the ability to zoom in on one picture and listen to the program in the selected window. You can watch pictures from two different sources (1080i, 720p, 480p or 480i) simultaneously.

- **16:9 Enhancement**: Vertical Compression technology that maximizes picture resolution on “anamorphic” or “enhanced for wide screen” sources, including selected DVDs.

- **Steady Sound™**: Equalizes volume levels so there is consistent output between programs and commercials.

- **Parental Control**: V-Chip technology allows parents to block unsuitable programming for younger viewers.

- **Component Video Inputs**: Offers the best video quality for DVD (480p, 480i) and Digital Set-top box (1080i, 720p, 480p, 480i) connections.

- **S-VIDEO Inputs**: Provides a high-quality image for connected equipment.
Introducing the Sony Projection TV

- **Favorite Channel Preview**: Preview up to eight favorite channels without leaving the current channel.
- **Channel Index**: Allows you to view and choose from twelve programs.
- **Flash Focus™**: Allows you to adjust convergence automatically.

**Using this manual**

We recommend that you carefully review the contents of the following three sections in the order shown to ensure that you fully understand the operation of your new projection TV.

1. **Installing and Connecting the Projection TV**
   This section guides you through your initial setup. It shows you how to install your projection TV, to connect your new components and to connect the antenna and cable.

2. **Using the Features**
   This section shows you how to begin using your new projection TV. It also shows you how to use your remote control functions.

3. **Using the menus**
   This section teaches you how to access on-screen menus and adjust your projection TV settings.

Instructions in this manual are written for the remote control. Similar controls are also found on the projection TV console.
Contents

The box contains your new projection TV, a remote control and two AA batteries. No peripheral cables are included. If you intend to add additional equipment to your projection TV, please check the hookup instructions for your desired setup before you begin. You may need to purchase cables and/or splitters to complete the hookup properly.

Inserting Batteries into the Remote Control

Insert two size AA (R6) batteries (supplied) by matching the + and − on the batteries to the diagram inside the battery compartment.

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (See “Programming the Remote Control” on page 65.)

Carrying Your Projection TV

Carrying the projection TV requires three or more people.

The projection TV has been equipped with casters for easy movement on a hard surface. (for KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30 only)

Please move your projection TV using the casters.
Installing the Projection TV

Recommended viewing area (Horizontal)

Recommended viewing area (Vertical)
**Connector Types**

You may find it necessary to use some of the following connector types during set up.

**Coaxial cable**  
Standard TV cable and antenna cable  
**Plug Type**  
Screw-on Type → Screw into connection.  
Push into connection.

**S Video cable**  
High quality video cable for enhanced picture quality  
Align guides and push into connection.

**Audio/Video cable**  
Push into connection.

Video - Yellow  
Audio (Left) - White  
Audio (Right) - Red  

Some DVD Players are equipped with the following three video connectors:  
Y - Green  
Pb (Cb, Cb or B–Y) - Blue  
Pb (Cr, Cr or R–Y) - Red

**CONTROL S cable**  
CONTROL S connections are exclusive to Sony products and allow greater control of all Sony equipment.  
Push into connection.
Projection TV Controls and Connectors

Front Panel Menu Controls

The front panel menu controls allow access to the on-screen menus without the use of a remote control. Pressing MENU brings up the on-screen menus. The arrow buttons move the on-screen cursor in the menus and the Select button (↑↓) selects the menu item.
Installing and Connecting the Projection TV

Projection TV Rear and Front/Side Panel Connectors

Rear of projection TV

Front or side of projection TV

KP-43HT20

KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30
## Installing and Connecting the Projection TV

<table>
<thead>
<tr>
<th>Connection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> AUX</td>
<td>Allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels easily by pressing ANT on the remote control. Devices connected to the AUX input cannot be viewed in Twin View.</td>
</tr>
<tr>
<td><strong>2</strong> TO CONVERTER</td>
<td>This is a VHF/UHF OUT jack that lets you set up your projection TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when switching between scrambled and unscrambled cable channels.</td>
</tr>
<tr>
<td><strong>3</strong> VHF/UHF</td>
<td>Connects to your VHF/UHF antenna or cable.</td>
</tr>
<tr>
<td><strong>4</strong> S VIDEO (Rear and front/side)</td>
<td>Connects to the S VIDEO OUT jack of your VCR or other S VIDEO-equipped video component. Provides better picture quality than the VHF/UHF jacks or the Video IN jack.</td>
</tr>
<tr>
<td><strong>5</strong> VIDEO (L/R)/AUDIO (Rear and front/side)</td>
<td>Connects to the audio and video OUT jacks on your VCR or other video component. A fourth video input (VIDEO 2) is located on the side panel (for KP-43HT20) or the front panel (for KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30) of the projection TV.</td>
</tr>
<tr>
<td><strong>6</strong> Y/Pb/Pr (L/R)/AUDIO</td>
<td>Connects to your DVD player’s or Digital Set-top box’s component video (Y, Pb, Pr) and audio (L/R) jacks.</td>
</tr>
<tr>
<td><strong>7</strong> TV OUT</td>
<td>Connects to an AV receiver for greater control of all audio and video equipment (see page 30). For detailed information about connection, refer to the operating manual supplied with the AV receiver.</td>
</tr>
<tr>
<td><strong>8</strong> AUDIO OUT (VAR/FIX) L (MONO)/R</td>
<td>Connects to the left and right audio inputs of your audio or video component.</td>
</tr>
<tr>
<td><strong>9</strong> CONTROL S IN/OUT</td>
<td>To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable. To control the projection TV with a remote control for another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the projection TV with the CONTROL S cable.</td>
</tr>
</tbody>
</table>
Basic Connections (Connecting Cable TV or Antenna)

Connecting Directly to Cable or an Antenna

The connection you choose depends on the cable found in your home. Newer homes are equipped with standard coaxial cable (see A); older homes probably have 300-ohm twin lead cable (see B); other homes may contain both (see C).

A  VHF Only or VHF/UHF or Cable

- 75-ohm coaxial cable
- VHF/UHF
- Rear of projection TV

B  VHF Only or UHF Only or VHF/UHF

- 300-ohm twin lead cable
- VHF/UHF
- Rear of projection TV
- Antenna connector

C  VHF and UHF

- 75-ohm coaxial cable
- VHF/UHF
- Rear of projection TV
- 300-ohm twin lead cable
- U/V Splitter (not supplied)

Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.

- CATV cable
- AUX
- TO CONVERTER
- Rear of projection TV

- Antenna cable
- VHF/UHF

Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

To receive channels with an antenna, you need to turn your Cable to OFF (see page 52) and perform the Auto Program function (see page 53).
Cable Box Connections

Cable Box and Cable
This is the preferred basic cable TV hookup to use if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- You want to enjoy the Twin View feature.

With this setup you can:

- Use the projection TV remote control to change channels using your cable box when the signal is scrambled.
- Use the projection TV remote control to change channels using your projection TV when the signal is not scrambled. (Your projection TV’s tuner provides a better signal than the cable box.)
- Use the Twin View feature. (When all channels are routed through your cable box, only one channel is sent to the projection TV, so you cannot use the Twin View or Channel Index features for your cable box.)

1. Connect the Cable TV cable to the projection TV’s VHF/UHF jack.

2. Using a coaxial cable, connect the projection TV’s TO CONVERTER jack to the cable box’s IN jack. The projection TV’s internal converter allows you to switch between unscrambled signals coming straight into the projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.

3. Using a coaxial cable, connect the cable box’s OUT jack to the projection TV’s AUX jack.

_pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the TV (unscrambled)._
Cable Box Only

Use this hookup if:

- You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- You do not intend to hook up any other audio or video equipment to your projection TV.

When all channels are routed through your cable box, only one unscrambled channel is sent to the projection TV, so you cannot use the Twin View feature. If some channels are scrambled, but others are not, consider using the hookup on page 17 instead.

1. Connect the coaxial connector from your cable service to the cable box’s IN jack.

2. Using a coaxial cable, connect the cable box’s OUT jack to the TV’s VHF/UHF jack.

Also, set Cable to ON in the Channel menu. (see page 52)

Setting the Channel Fix feature in the Channel menu (see “Using the Channel Menu” on page 52) ensures that you do not accidentally switch the channels using your projection TV.

- If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your projection TV to channel 3 or 4 (see page 53).

- Your Sony remote control can be programmed to operate your cable box (see “Programming the Remote Control” on page 65).

- To change channels using the cable box, set your projection TV to channel 3 or 4 depending on the cable box channel output.
**Connecting a VCR and Cable**

Use this hookup if:

- You have cable TV that does not require a cable box.

**Disconnect all power sources before making any connections.**

1. Connect the cable TV cable to the VCR’s IN jack.
2. Using a coaxial cable, connect the VCR’s OUT jack to the projection TV’s VHF/UHF jack.
3. Using AUDIO and S VIDEO cables, connect the VCR’s Audio and S VIDEO OUT jacks to the projection TV’s AUDIO and S VIDEO IN jacks.

[[Diagram of cable connections]]

*If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.*
Connecting a VCR and Cable Box

Use this hookup if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- You want to enjoy the Twin View feature.

With this setup you can:

- Use the projection TV remote control to change channels using your cable box when the signal is scrambled.
- Use the projection TV remote control to change channels using your projection TV when the signal is not scrambled. Your projection TV’s tuner provides a better signal than the cable box.
- Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the projection TV, so you cannot use the Twin View feature.)

Disconnect all power sources before making any connections.

1. Connect the Cable TV cable to the projection TV’s VHF/UHF jack.
2. Using a coaxial cable, connect the TV’s TO CONVERTER jack to the cable box’s IN jack. The projection TV’s internal converter allows you to switch between unscrambled signals coming straight into the projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
3. Using a coaxial cable, connect the cable box’s OUT jack to the VCR’s IN jack.
4. Using AUDIO and S VIDEO cables, connect the VCR’s AUDIO and S VIDEO OUT jacks to the projection TV’s AUDIO and S VIDEO IN jacks.
5. Using a coaxial cable, connect the VCR’s OUT jack to the projection TV’s AUX jack.

To view scrambled channels, set your projection TV to AUX 3 or 4 (depending on your cable box output). Change channels using your cable box.
If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

You will not be able to change channels on the VCR. Set your projection TV and VCR to channel 3 or 4, depending on your cable box channel output.

Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the projection TV (unscrambled).
Installing and Connecting the Projection TV

Connecting Two VCRs for Tape Editing

If you connect two VCRs, you can record from one VCR to the other while using your TV to monitor what is being recorded.

Disconnect all power sources before making any connections.

1. Using AUDIO and VIDEO cables, connect the playback VCR’s Audio and Video OUT jacks to the recording VCR’s Audio and Video IN jacks.

2. Using AUDIO and VIDEO cables, connect the recording VCR’s AUDIO and Video OUT jacks to the projection TV’s AUDIO and VIDEO IN jacks.

To perform tape editing, set the projection TV to the video input intended for playback by pressing TV/VIDEO on the remote control.

You may need to change the video input on your VCR. Consult your VCR’s operating manual for instructions.

If your VCRs have an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable.

Using an S VIDEO cable, connect the playback VCR’s S VIDEO OUT jack to the recording VCR’s S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.

You cannot record signals from equipment connected to the Y, Pb, Pr input.
Connecting a Satellite Receiver

Disconnect all power sources before making any connections.

1. Connect the satellite antenna cable to the satellite receiver’s SATELLITE IN jack.

2. Using AUDIO and S VIDEO cables, connect the satellite receiver’s AUDIO and S VIDEO OUT jacks to the projection TV’s AUDIO and S VIDEO IN jacks.

3. Connect a coaxial cable from your cable or antenna to the projection TV’s VHF/UHF jack.

If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Rear of projection TV

Satellite receiver

Coaxial cable
Connecting a Satellite Receiver with a VCR

Disconnect all power sources before making any connections.

1. Connect the satellite antenna cable to the satellite receiver’s SATELLITE IN jack.
2. Connect the CATV cable to the VCR’s VHF/UHF IN jack.
3. Using a coaxial cable, connect the VCR’s OUT jack to the projection TV’s VHF/UHF jack.
4. Using AUDIO and S VIDEO cables, connect the satellite receiver’s AUDIO and S VIDEO OUT jacks to the VCR’s AUDIO and S VIDEO IN jacks.
5. Using AUDIO and S VIDEO cables, connect the VCR’s AUDIO and S VIDEO OUT jacks to the TV’s AUDIO and S VIDEO IN jacks.

Be sure your VCR’s video input is set correctly. Consult your VCR’s operating manual for instructions.

Use TV/VIDEO to select
- VIDEO 1 to watch satellite TV or the VCR (Your VCR must be turned on).
- VHF/UHF to watch cable TV.

If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
Connecting an Audio Receiver

Disconnect all power sources before making any connections.

Using audio cables, connect the projection TV’s AUDIO OUT (VAR/FIX) jacks to the audio receiver’s audio LINE IN jacks.

Rear of projection TV
Connecting a DVD Player with Component Video Connectors

This is the preferred hookup to use if:

- Your DVD player has component (Y, Pb, Pr) jacks.

Disconnect all power sources before making any connections.

1. Using three separate component video cables, connect the DVD player’s Y, Pb and Pr jacks to the Y, Pb and Pr jacks on the projection TV. Use the VIDEO IN 5 or 6 connections.

   - The Y, Pb and Pr jacks on your DVD player are sometimes labeled Y, Cb and Cr, or Y, B-Y and R-Y. If so, connect the cables to like colors.

2. Using an audio cable, connect the DVD player’s Audio OUT jacks to the projection TV’s AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (VIDEO IN 5 or 6).
Connecting a DVD Player with A/V Connectors

Use this hookup if:

- Your DVD player does not have component (Y, Pb, Pr) jacks.

If your DVD player has video component output connectors: for best picture quality use the connection described on page 26.

Disconnect all power sources before making any connections.

1. Using audio cables, connect the DVD player’s Audio OUT jacks to the projection TV’s AUDIO IN jacks.
2. Using an S VIDEO cable, connect the DVD player’s S VIDEO jack to the projection TV’s S VIDEO jack.

Use TV/VIDEO on the remote control to switch between the VCR, DVD player and cable TV inputs.
Installing and Connecting the Projection TV

Connecting a Digital TV Receiver

Disconnect all power sources before making any connections.

1. Using three separate component video cables, connect the Digital TV Set-top box’s Y, Pb and Pr jacks to the projection TV.

The Y, Pb and Pr jacks do not provide audio, so audio cables must be connected to provide sound.

Component video connection is necessary to view 480p, 720p and 1080i formats. You may also use the S VIDEO or Composite Video connections, however, component video (Y, Pb, Pr) will provide the best picture quality for all format types.

2. Using an audio cable, connect the Digital TV Set-top box’s Audio OUT jacks to the projection TV’s AUDIO IN jacks.

You cannot record the signal from any equipment connected into the Y, Pb and Pr connectors.

This projection TV is not compatible with digital TV receivers configured with RGB or VGA output connectors.

Be sure to read the Set-top box manual.
Connecting a Camcorder

For easy connection of the camcorder, the projection TV has front Audio and Video inputs (shown below). However, if you prefer, you can also connect the camcorder to the projection TV’s rear Audio and Video IN jacks.

Using AUDIO and S VIDEO cables, connect the camcorder’s Audio and S VIDEO OUT jacks to the projection TV’s AUDIO and S VIDEO IN jacks.

- If you have a mono camcorder, connect its left audio output to the projection TV’s AUDIOL jack.
- If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
Connecting an AV Receiver

For greater control of all audio and video equipment, connect an AV receiver.

Disconnect all power sources before making any connections.

1. Connect the coaxial cable from the incoming cable connection or antenna to IN on the VCR.
2. Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the projection TV.
3. Using a VIDEO cable, connect VIDEO of VIDEO 1 IN on the projection TV to MONITOR OUT on the AV receiver.
4. Using an AUDIO/VIDEO cable, connect TV OUT on the projection TV to AUDIO/VIDEO 2 IN on the AV receiver.
5. Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.
6. Select the Setup menu and set “Video Label” to “Receiver” to fix your TV’s input to AV receiver (see “Video Label” on page 64).

Change “Video Label” for the VIDEO 1 input to “Receiver” (see page 64).
Using the CONTROL S Feature

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

After you finish connecting your projection TV, you can run Auto Setup to set up your channels. The Auto Setup screen appears when you turn your projection TV on for the first time after installing it. If you do not want to set up the channels at this time, you can do it later by using the Auto Program feature in the Channel menu (see page 53).

The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

1. Press POWER on the front panel of your projection TV or on the remote control to turn on the projection TV.

2. Press the TV (FUNCTION) button on your remote control. Red light will briefly appear.

3. Press CH+ on your projection TV to run Auto Setup, or press CH– to exit. If you use the channel buttons on your remote control, be sure to use the main set of buttons ( ).

You can run Auto Program by selecting it in the Channel menu, as described on page 53.
## Adjusting the Convergence Automatically – FLASH FOCUS™ –

The projection tube image appears on the screen in three colors (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence.

The FLASH FOCUS feature allows you to adjust the convergence automatically.

> It is recommended to perform FLASH FOCUS about 30 minutes after the projection TV is first turned on.

1. Receive a TV or cable TV program.
2. Press FLASH FOCUS.

The cross pattern shown below appears and FLASH FOCUS begins to work. The adjustment is completed when the cross pattern becomes white and you are returned to the program you were watching.

> You cannot perform any other functions until FLASH FOCUS has completed its cycle.
> If you perform any other operation while FLASH FOCUS is in progress, FLASH FOCUS operation is canceled.
> Unshielded speakers or other metallic objects can cause picture distortion if placed close to the projection TV.
# Using the Features

## Using the Remote Control

The following table describes the buttons on the remote control that are for more advanced functions.

### Button Descriptions

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTING</td>
<td>Press to mute the sound. Press again or press VOL + to restore the sound.</td>
</tr>
<tr>
<td>SLEEP</td>
<td>Press repeatedly until the projection TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until SLEEP OFF appears or turning the power off. While the Sleep feature is set, press once to view the remaining time.</td>
</tr>
<tr>
<td>ANT</td>
<td>Changes between the VHF/UHF input and the AUX input.</td>
</tr>
<tr>
<td>DISPLAY</td>
<td>Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 62 for details on setting the time.</td>
</tr>
<tr>
<td>JUMP</td>
<td>Press to jump back and forth between two channels. The projection TV alternates between the current channel and the last channel that was selected.</td>
</tr>
<tr>
<td>FREEZE</td>
<td>Freezes the window picture. Press again to restore the picture.</td>
</tr>
<tr>
<td>INDEX</td>
<td>Press to enter the Channel Index mode. You can view and select from twelve channels without leaving the current one.</td>
</tr>
<tr>
<td>VOL +/-</td>
<td>Adjusts the volume.</td>
</tr>
<tr>
<td>PIC MODE</td>
<td>Press repeatedly to step through the available video picture modes: Vivid, Standard, Movie and Pro. Also available in the Video menu. For details, see “Selecting Video Options” on page 48.</td>
</tr>
<tr>
<td>FAVORITES</td>
<td>Displays the Favorite Channels list. For details, see “Using Favorite Channels” on page 40.</td>
</tr>
<tr>
<td>RESET</td>
<td>Press when in a menu to reset the settings to the factory defaults.</td>
</tr>
</tbody>
</table>
### Using the Features

<table>
<thead>
<tr>
<th>Button Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER buttons</strong></td>
<td>Turn on and off the projection TV and other audio/video equipment you have programmed into the remote control. For instructions, see “Programming the Remote Control” on page 65.</td>
</tr>
<tr>
<td><strong>FUNCTION buttons</strong></td>
<td>Select the equipment (TV, SAT/CABLE) that you want to operate. The indicator lights up momentarily when pushed to show which device the remote control is operating.</td>
</tr>
<tr>
<td><strong>TV/VIDEO</strong></td>
<td>Cycles through the video equipment connected to your projection TV’s video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.</td>
</tr>
<tr>
<td><strong>0 – 9 and ENTER</strong></td>
<td>Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER to select immediately.</td>
</tr>
<tr>
<td><strong>GUIDE</strong></td>
<td>Turns on/off Twin View. For details, see “Using Twin View™” on page 41.</td>
</tr>
<tr>
<td><strong>MENU</strong></td>
<td>Displays the program guide of your satellite.</td>
</tr>
<tr>
<td><strong>CH +/-</strong></td>
<td>Scan through channels.</td>
</tr>
<tr>
<td><strong>DRC/CINEMOTION</strong></td>
<td>Press repeatedly to step through the available high-resolution picture modes: Interlaced, Progressive and CineMotion. For details, see “Using the Video Menu” on page 48.</td>
</tr>
</tbody>
</table>

![Remote Control Diagram]

To scan rapidly through the channels, press and hold down CH+ or CH−.
Using the Features

### Inside Panel

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> SYSTEM OFF</td>
<td>Press to turn off the projection TV and all equipment connected with S-Link.</td>
</tr>
<tr>
<td><strong>2</strong> Play</td>
<td></td>
</tr>
<tr>
<td><strong>3</strong> Rewind</td>
<td></td>
</tr>
<tr>
<td><strong>4</strong> Record</td>
<td></td>
</tr>
<tr>
<td><strong>5</strong> Stop</td>
<td></td>
</tr>
<tr>
<td><strong>6</strong> DVD MENU</td>
<td>Displays the DVD menu.</td>
</tr>
<tr>
<td><strong>7</strong> MTS/SAP</td>
<td>Press to scroll through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP, and Mono.</td>
</tr>
<tr>
<td><strong>8</strong> CODE SET</td>
<td>Used for programming the remote control to operate non-Sony video equipment. For details, see “Programming the Remote Control” on page 65.</td>
</tr>
<tr>
<td><strong>9</strong> POWER</td>
<td>Press to turn on the DVD/VCR player you have programmed into the remote control. For instructions, see “Programming the Remote Control” on page 65.</td>
</tr>
<tr>
<td><strong>10</strong> Fast-forward</td>
<td></td>
</tr>
<tr>
<td><strong>11</strong> Use to switch control for connected video equipment. You can program one video source for each switch position. For details, see “Programming the Remote Control” on page 65.</td>
<td></td>
</tr>
<tr>
<td><strong>12</strong> Pause (Press again to resume normal playback)</td>
<td></td>
</tr>
<tr>
<td><strong>13</strong> Displays the video equipment menu.</td>
<td></td>
</tr>
<tr>
<td><strong>14</strong> Use to operate the DVD menu.</td>
<td></td>
</tr>
<tr>
<td><strong>15</strong> Press to select an audio option: Steady Sound ON or OFF.</td>
<td></td>
</tr>
</tbody>
</table>
Watching the TV

Many TV features can be accessed directly through the remote control. The following will explain the function of some of the buttons found on your remote control.

Buttons for Projection TV Operations

1. **TV (FUNCTION)**
   Activates the remote control for use with the projection TV.

2. **ANT— (AUX input)**
   Press to change between the VHF/UHF input and the AUX input (for detailed connection information, see “Cable and Antenna” on page 16 or “Cable Box Connections” on page 17).

3. **TV (POWER)**
   Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO or CH +/- until a channel number appears.

4. **0-9 and ENTER**
   Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.

5. **CH +/-**
   Press to scan through the channels (+ up or – down).

6. **VOL +/-**
   Press to adjust the volume (+ up or – down).

7. **JUMP**
   Press to alternate or jump back and forth between two channels. The projection TV will jump between the current channel and the last channel selected.

8. **MUTING**
   Press to mute the sound. “MUTING” will appear on the screen and will dim three seconds later. To restore the sound, press again or press VOL +.

9. **FREEZE — (yellow labeled button)**
   This is useful when you need to copy down information that appears on the TV’s screen (see “Using the Freeze Function” on page 44).
Using the Features

**10 SLEEP**
Press repeatedly until the projection TV displays the approximate time in minutes (15, 30, 45, 60, or 90) that you want the projection TV to remain on before shutting off automatically.

Cancel by pressing SLEEP until “SLEEP OFF” appears or turning the power off.

**11 DISPLAY**
Press to display the channel number, current time and channel label (if set).

To turn the display off, press DISPLAY again.

**12 TV/VIDEO**
Press repeatedly to scroll through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.

If you select Skip as a Video Label in the Setup menu, your projection TV will skip the video input you selected (see “Video Label” on page 64).

**13 MTS/SAP**
Press to scroll through the Multi-channel TV Sound (MTS) options (see “MTS” on page 50).

**14 PIC MODE**
Press PIC MODE repeatedly to directly choose one of four different video modes that best suits the program you are watching.

Vivid: Select for enhanced picture contrast and sharpness.

Standard: Select to display a standard picture for normal viewing environments.

Movie: Select to display a finely detailed picture for low light environments.

Pro (Professional): Select to display a picture with minimum enhancements.

When you select each mode, you can also adjust the picture quality (such as Brightness, Color, etc.) to suit your taste. For details, see “Mode” on page 48.
Watching the Digital TV

When you have connected the DTV receiver, you can enjoy digital TV programs. This projection TV is capable of receiving the 1080i, 720p, 480p and 480i digital TV formats.

This projection TV is not capable of displaying a native 720p format signal. When a 720p format signal is received, it is converted into a 480p format signal.

To view a digital TV program

1. Connect the DTV receiver to VIDEO 5 or 6 IN on the projection TV. (for details, see page 28)
2. Press TV/VIDEO to select VIDEO 5 or 6.
3. Select a digital channel on the DTV receiver. For details, see the Operating Manual of the DTV receiver.
4. Adjust the volume of the projection TV as necessary.
Using Favorite Channels

The Favorite Channel feature lets you select programs from a list of favorite channels that you preset.

To display a list of your favorite channels:

1. Press FAVORITES.
   
   The Favorite Channel options appear.

2. Move the joystick up or down to highlight the channel you want to watch. The program on that channel appears in the preview window. Press & to select.
Using Twin View™

Twin View enables you to watch two programs at the same time. You can also change the size of both the left and right pictures.

Displaying Twin Pictures

To display twin pictures

1. Make sure your projection TV is tuned to a working channel.
2. Press .

To cancel twin pictures

Press again (or press ).

Activating the Picture

Although two pictures appear on the screen at the same time, only one picture is active. Change the picture size by using the joystick. For an active picture, you can:

- Change channels.
- Adjust the volume.
- Switch the input sources from VHF/UHF to cable by pressing ANT or TV/VIDEO to switch the video input.
  When the right picture is activated, the input sources cannot be switched to AUX by pressing ANT.
- Change the picture size by pressing the joystick up or down.

To activate the right picture

Move the joystick to the right.

To activate the left picture

Move the joystick to the left.

(Continued)
When viewing an enhanced 16:9 picture, the aspect ratio changes to 4:3 in Twin View. The picture will be reformatted to that aspect ratio.

If viewing a 720p or 1080i format input source, the aspect ratio will maintain the original 16:9 aspect ratio.

Hookups that affect your ability to use Twin View:

- If you are viewing all channels through the cable box, the Twin View feature will not work. The cable box only unscrambles one signal at a time, so the right picture will be the same as the left picture.

- You can watch a scrambled cable channel and another video source. Be sure your DVD player, VCR or satellite receiver are connected to one of the VIDEO IN 1-6 and AUX inputs on the rear of the projection TV. Pictures from equipment connected to VIDEO 5, 6 and AUX will only appear in the left picture, not in the right.

The active picture is highlighted in cyan.
Changing the Picture Size

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

**To enlarge the left picture (reduce the right)**

1. Move the joystick left to activate the left picture (if not already activated).
2. Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.

**To enlarge the right picture (reduce the left)**

1. Move the joystick right to activate the right picture (if not already activated).
2. Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.

*When you adjust the twin screen sizes, the projection TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.*
Using the Features

Using the Freeze Function

The FREEZE button allows you to temporarily capture a program’s picture. You can use this feature to write down information such as phone numbers, recipes, etc.

To use the Freeze function

1. When the program information you want to capture is displayed, press FREEZE.

2. The projection TV switches to Twin View mode and displays the “frozen” picture on the right, while the current program continues on the left.

3. To cancel and return to normal viewing, press FREEZE.

⚠️ Freeze feature is not available if you are already in Twin View™ or INDEX mode.
**Using Channel Index**

Channel Index allows you to display multiple channels and select one directly.

The channels used for Channel Index will come directly from the projection TV’s list of receivable channels (those set during “Auto Program” on page 53)

Channel Index will not function when Parental Lock is activated. (See “Using the Parent Menu” on page 54.)

To use the Channel Index function

1. Press .
   
The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, around the center picture. These small pictures are updated in intervals of one second. The channel number and channel caption (if set) on the second and later appearances will dim.

   ![Image of Channel Index display]

   A cyan-colored frame will appear to indicate current channel selection.

2. Move the joystick in any direction to move the cyan frame to the channel that you wish to view, and press .

   ![Image of Channel Index display with selected channel]

   The selected channel will zoom in and move to the center, and the sound of that channel will be heard.

(Continued)
Using the Features

For the center picture you can:

❑ Change the channel by pressing 0-9 and ENTER.
❑ Switch the input sources from VHF/UHF to cable by pressing ANT or to the video input by pressing TV/VIDEO, without changing the surrounding channels.

Sound will only be heard from the center picture.

If one of the pictures received through Channel Index is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see “Channel Skip/Add” on page 53)

If you leave the Channel Index screen displayed for an hour without any additional operation, Channel Index is canceled and the normal picture reappears.

3 If you wish to view another channel, repeat step 2.

To view another twelve channels, press CH+.
To view the previous twelve, press CH–.
To view the normal picture of the selected channel, proceed to step 4.

4 Press .

The center picture will be enlarged for normal viewing.

To cancel Channel Index

❑ Press again to resume normal viewing.
Using the Menus

Overview

Opening and choosing a menu:
1. Press MENU to display the menu screen.
2. Move the joystick to the desired menu icon and press to select it.
3. Use the joystick to scroll through the features.
4. See the specific menu page for instructions on moving through the menu.

The menu gives you access to the following features:

<table>
<thead>
<tr>
<th>Menu Icon</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Video" /></td>
<td>Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing.</td>
<td>48</td>
</tr>
<tr>
<td><img src="image" alt="Audio" /></td>
<td>Offers enhanced audio options such as listening to second audio programming (SAP), or customizing the Effect of the sound on your projection TV.</td>
<td>50</td>
</tr>
<tr>
<td><img src="image" alt="Channel" /></td>
<td>Allows you to set up a Favorite Channel list, run the Auto Program function, and more.</td>
<td>52</td>
</tr>
<tr>
<td><img src="image" alt="Parent" /></td>
<td>Lets you control the viewing of programs based on their ratings.</td>
<td>54</td>
</tr>
<tr>
<td><img src="image" alt="Timer" /></td>
<td>Lets you set the clock on your projection TV and allows you to program your projection TV for scheduled viewing using the Timers.</td>
<td>62</td>
</tr>
<tr>
<td><img src="image" alt="Setup" /></td>
<td>Provides several options for setting up your channels, labeling your Video inputs, and selecting the language of the on-screen menus.</td>
<td>63</td>
</tr>
</tbody>
</table>

To end a menu session:
Press MENU again.

To end one menu session and move to another:
Press the joystick to return to the menu icons. Move the joystick to choose the next menu icon and press to select it.
Using the Menus

Using the Video Menu

To select the Video Menu

1. Press MENU.
2. Move the joystick to the Video icon  and press .
3. Use the joystick to scroll through the features.
4. Press  to select a feature. That feature’s adjustment appears.
5. Use the joystick to make the desired adjustments.
6. Press  to select/set.
7. Press MENU to exit the menu screen.

To restore the factory default settings for Picture, Brightness, Color, Hue, Sharpness and Color Temp

Press RESET on the remote control when in the Video menu.

Selecting Video Options

To quickly and easily change from one Video Mode to another, use the PIC MODE on the remote control.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
<td>Vivid</td>
</tr>
<tr>
<td>Mode</td>
<td>Standard</td>
</tr>
<tr>
<td>Mode</td>
<td>Movie</td>
</tr>
<tr>
<td>Mode</td>
<td>Pro</td>
</tr>
<tr>
<td>Customized</td>
<td>Picture</td>
</tr>
<tr>
<td>Customized</td>
<td>Brightness</td>
</tr>
<tr>
<td>Customized</td>
<td>Color</td>
</tr>
<tr>
<td>Customized</td>
<td>Hue</td>
</tr>
<tr>
<td>Customized</td>
<td>Sharpness</td>
</tr>
<tr>
<td>Customized</td>
<td>Color Temp</td>
</tr>
<tr>
<td>White intensity adjustment</td>
<td>Cool</td>
</tr>
<tr>
<td>White intensity adjustment</td>
<td>Neutral</td>
</tr>
<tr>
<td>White intensity adjustment</td>
<td>Warm</td>
</tr>
</tbody>
</table>
**Using the Menus**

DRC Mode

Digital Reality Creation

Creates a high-resolution picture with 4x density, for high quality sources (i.e., DVD player, Satellite receiver).

Select from Interlaced, Progressive and CineMotion.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interlaced</td>
<td>Recommended for moving pictures.</td>
</tr>
<tr>
<td>Progressive</td>
<td>Recommended for still images and text.</td>
</tr>
<tr>
<td>CineMotion</td>
<td>Recommended for 24 frame-per-second films.</td>
</tr>
</tbody>
</table>
Using the Audio Menu

To select the Audio Menu

1. Press MENU.
2. Move the joystick to the Audio icon and press .
3. Use the joystick to scroll through the options.
5. Use the joystick to scroll through the settings.
6. Press to select the desired setting.
7. Press MENU to exit the menu screen.

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

Press RESET on the remote control when in the Audio menu.

Selecting Audio Options

The Audio menu includes the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treble</td>
<td>Adjust to increase or decrease higher-pitched sounds.</td>
</tr>
<tr>
<td>Bass</td>
<td>Adjust to increase or decrease lower-pitched sounds.</td>
</tr>
<tr>
<td>Balance</td>
<td>Adjust to emphasize left or right speaker balance.</td>
</tr>
<tr>
<td>Steady Sound</td>
<td>ON: Select to stabilize the volume.</td>
</tr>
<tr>
<td></td>
<td>OFF: Select to turn off Steady Sound.</td>
</tr>
<tr>
<td>Effect</td>
<td>TruSurround: Select for surround sound (for stereo programs only).</td>
</tr>
<tr>
<td></td>
<td>Simulated: Adds a surround-like effect to mono programs.</td>
</tr>
<tr>
<td></td>
<td>OFF: Normal stereo or mono reception.</td>
</tr>
<tr>
<td>MTS</td>
<td>Stereo: Select for stereo reception when viewing a program broadcast in stereo.</td>
</tr>
<tr>
<td></td>
<td>Auto-SAP: Select to automatically switch the projection TV to second audio programs when a signal is received. (If no SAP signal is present, the projection TV remains in Stereo mode.)</td>
</tr>
<tr>
<td></td>
<td>Mono: Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)</td>
</tr>
</tbody>
</table>

A virtual surround system attempts to create the same surround effect produced by a multichannel system using only the left and right speakers. Most effective for programs encoded in Dolby Surround.
### Using the Menus

<table>
<thead>
<tr>
<th><strong>Option</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speaker</strong></td>
<td><strong>ON</strong> Select to turn on the projection TV speakers. <strong>OFF</strong> Select to turn off the projection TV speakers and listen to the projection TV’s sound only through your external audio system speakers.</td>
</tr>
<tr>
<td><strong>Audio Out</strong></td>
<td><strong>Variable</strong> The projection TV’s speakers are turned off, but the volume output from your audio system can still be controlled by the projection TV’s remote control. <strong>Fixed</strong> The projection TV’s speakers are turned off and the volume, bass and treble output of the projection TV is fixed. Use your audio receiver’s volume control to adjust the volume through your audio system.</td>
</tr>
</tbody>
</table>

*Easy control of volume adjustments*
Using the Menus

**Using the Channel Menu**

To select the Channel Menu

1. Press MENU.
2. Move the joystick to the Channel icon and press .
3. Use the joystick to scroll through the features.
5. Use the joystick to scroll through the options.
6. Press  to select the desired option.
7. Press MENU to exit the menu screen.

**Selecting Channel Options**

The Channel menu includes the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Favorite Channel</td>
<td>Select if you want Favorite Channel options to be set automatically to the last eight channels selected with the 0-9 buttons.</td>
</tr>
<tr>
<td>Auto</td>
<td>Select if you want to input your own selections as Favorite Channel options.</td>
</tr>
<tr>
<td>Manual</td>
<td>Select if you want to input your own selections as Favorite Channel options.</td>
</tr>
<tr>
<td></td>
<td>1. Press  to select a favorite channel number.</td>
</tr>
<tr>
<td></td>
<td>2. Use the joystick to scroll through the channels until you find the channel you want to add to your favorites.</td>
</tr>
<tr>
<td></td>
<td>3. Press  to select it.</td>
</tr>
<tr>
<td>Cable</td>
<td>Select if you are receiving cable channels with a CATV cable.</td>
</tr>
<tr>
<td>ON</td>
<td>Select if you are receiving cable channels with a CATV cable.</td>
</tr>
<tr>
<td></td>
<td>1. Press  to select a favorite channel number.</td>
</tr>
<tr>
<td></td>
<td>2. Use the joystick to scroll through the channels until you find the channel you want to add to your favorites.</td>
</tr>
<tr>
<td></td>
<td>3. Press  to select it.</td>
</tr>
<tr>
<td>OFF</td>
<td>Select if you are using an antenna.</td>
</tr>
<tr>
<td></td>
<td>You should run Auto Program after changing the Cable setting.</td>
</tr>
</tbody>
</table>
### Using the Menus

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Fix</td>
<td><strong>Useful when you have a cable box or satellite receiver connected</strong></td>
</tr>
<tr>
<td></td>
<td>“Fix” your projection TV’s channel setting to 3 or 4 and use the cable box, VCR or satellite receiver to change channels. Select one of these settings if you have connected the device to the VHF/UHF jack.</td>
</tr>
<tr>
<td>AUX 2-6</td>
<td>Same as 2-6, except you select one of these settings if you have connected the device to the AUX jack. (see page 15)</td>
</tr>
<tr>
<td>VIDEO 1</td>
<td>Use when connecting a cable box to control external video sources. TV output should be connected through the cable box.</td>
</tr>
<tr>
<td>Auto Program</td>
<td>Automatically programs the projection TV for all receivable channels.</td>
</tr>
<tr>
<td>Channel Skip/Add</td>
<td>Removes and adds viewable channels.</td>
</tr>
<tr>
<td>1</td>
<td>Use the joystick to scroll through the channels until you find the channel you want to skip/add.</td>
</tr>
<tr>
<td>2</td>
<td>Press ⬆️ to select it.</td>
</tr>
<tr>
<td>3</td>
<td>Press the joystick up or down to toggle between “Add” and “Skip.”</td>
</tr>
<tr>
<td>4</td>
<td>Press ⬇️ to select.</td>
</tr>
<tr>
<td>Channel Label</td>
<td>Label up to 20 channels with their station call letters.</td>
</tr>
</tbody>
</table>
Using the Menus

**Using the Parent Menu**

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

These ratings are assigned by a federal rating board. Not all programs are rated. Using the Parental Lock blocks programs with a specific rating, but it does not block an entire channel.

Channel Index will not function when Parental Lock is activated.

**Using the Parent Menu**

**To select the rating**

First, set a password, then select the country you reside in (U.S.A. or Canada) and your desired rating.

1. Press MENU.
2. Move the joystick to the Parent icon and press .
3. Use the 0-9 buttons on the remote control to enter your four-digit password.
4. Confirm your password by entering it again. Your password is stored and the Parent menu options appear.
5. Make sure that “Country” is selected, and press .

You need the password entered here for any future access into the Parent menu. If you lose your password, see “Lost password” on page 71.

If you want to change the password, see page 56.
6 Move the joystick up or down to select U.S.A. or Canada according to the country you reside in, and press  

7 Move the joystick down to select “Parental Lock”, and press  

8 Move the joystick up or down to select a desired rating, and press  
   If you select Child, Youth, Young Adult or Custom, the Parental Control is activated automatically.
   
   If you want to select the ratings from Custom, see “Using Custom Rating Options” on page 57.

9 Press MENU to exit the menu screen.
Using the Menus

The Parent menu includes the following options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parental Lock</td>
<td>Turn ratings on/off and select a rating system</td>
</tr>
<tr>
<td>OFF</td>
<td>Parental lock is off. No programs are blocked from viewing.</td>
</tr>
<tr>
<td>Child</td>
<td>Maximum ratings permitted are:</td>
</tr>
<tr>
<td></td>
<td>❑ US: TV-Y, TV-G, G</td>
</tr>
<tr>
<td></td>
<td>❑ Canada: TV-Y, C, G</td>
</tr>
<tr>
<td>Youth</td>
<td>Maximum ratings permitted are:</td>
</tr>
<tr>
<td></td>
<td>❑ US: TV-PG, PG</td>
</tr>
<tr>
<td></td>
<td>❑ Canada: TV-PG, PG, 8 ans+</td>
</tr>
<tr>
<td>Young Adult</td>
<td>Maximum ratings permitted are:</td>
</tr>
<tr>
<td></td>
<td>❑ US: TV-14, PG-13</td>
</tr>
<tr>
<td></td>
<td>❑ Canada: TV-14, 14+, 13 ans+</td>
</tr>
<tr>
<td>Custom</td>
<td>Select to set ratings manually.</td>
</tr>
<tr>
<td></td>
<td>❑ US: See page 60 for details.</td>
</tr>
<tr>
<td></td>
<td>❑ Canada: See page 61 for details.</td>
</tr>
<tr>
<td>Change Password</td>
<td>For changing your password. (see below)</td>
</tr>
</tbody>
</table>

To deactivate the Parental Control feature
❑ Set Parental Lock to OFF when in the Parent menu.

To change the password
1 Select Change Password option when in the Parent menu using the joystick, and press \( \text{Enter} \).
2 Enter a new four-digit password using the 0-9 buttons.
3 Confirm the new password by entering it again.
4 Press MENU to exit the menu screen.

Viewing Blocked Programs

You can view a blocked program by entering the password.
1 Press ENTER when tuned to a blocked program.
2 Enter your password using the 0-9 buttons.

Parental Control will be canceled temporarily until you turn your projection TV off.
Using Custom Rating Options

If you want to select the ratings to be blocked from Custom, follow the procedure below.

1. Perform the steps 1 to 7 in “To select the rating” on page 54 to display the Parental Lock options.

2. Move the joystick up or down to select “Custom,” and press .

3. Make sure that “Movie Ratings” is selected, and press .

4. Move the joystick up or down to select the rating to be blocked, and press .

   The indicator automatically appears beside the selected rating and all “higher” ratings, indicating that the programs that match the ratings will be blocked.

To unblock a rating, select it by moving the joystick up or down, then press . The indicator changes into “-“ and all “lower” ratings are unblocked.

(Continued)
Using the Menus

5 Move the joystick left, then down, to select “TV Rating” or “Program,” and press .

![Custom Ratings Menu]

6 The “TV Rating” setting menu appears.

![TV Rating Menu]

7 Move the joystick up or down to select the rating to be blocked, and press .

The indicator automatically appears beside the selected rating and all “higher” ratings, indicating that the programs that match the ratings will be blocked.

![Blocked Ratings Menu]

To unblock a rating, select it by moving the joystick up or down, then press . The indicator changes into “-” and all “lower” ratings are unblocked.

Some TV ratings have additional content ratings called “extenders.” The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.
8 Move the joystick left or right to select the extender to be viewed, and press ✦.

“–” appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you press ✦ again,  is displayed to show that the programs that match the extender will be blocked again.

9 Repeat step 8 for other extenders.

All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

10 Press MENU to exit the menu screen.
Using the Menus

### US custom rating options

If you selected U.S.A. as the country of residence on page 54, the Custom Rating Menu includes the following options. (If you selected Canada, see page 61.)

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Movie Rating</strong></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>All children and General Audience.</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance suggested.</td>
</tr>
<tr>
<td>R</td>
<td>Restricted viewing, parental guidance is suggested for children under 17.</td>
</tr>
<tr>
<td>NC-17 and X</td>
<td>No one 17 and under allowed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TV Rating</strong></th>
<th><strong>Block programs</strong> by their rating, content or both</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age-Based Options</td>
<td></td>
</tr>
<tr>
<td>TV-Y</td>
<td>All children.</td>
</tr>
<tr>
<td>TV-Y7</td>
<td>Directed to older children.</td>
</tr>
<tr>
<td>TV-G</td>
<td>General Audience.</td>
</tr>
<tr>
<td>TV-PG</td>
<td>Parental Guidance suggested.</td>
</tr>
<tr>
<td>TV-14</td>
<td>Parents Strongly cautioned.</td>
</tr>
<tr>
<td>TV-MA</td>
<td>Mature Audience only.</td>
</tr>
</tbody>
</table>

Content-Based Options

- FV: Fantasy Violence.
- D: Suggestive Dialogue.
- L: Strong Language.
- S: Sexual situations.
- V: Violence.

### Unrated

Block programs or movies that are broadcast without a rating

- Block: Blocks all programs and movies that are broadcast without a rating.
- Allow: Allows programs and movies that are broadcast without a rating.

*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 more intense violence.*

To ensure maximum blocking capability, the age-based ratings should be blocked.

If you choose to block unrated TV programs, please be aware that the following programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.
**Canadian custom rating options**
If you selected Canada as the country of residence on page 54, the Custom Rating Menu includes the following options. (If you selected U.S.A., see page 60.)

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English Rating</strong></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>All children.</td>
</tr>
<tr>
<td>C8+</td>
<td>Children 8 years and older.</td>
</tr>
<tr>
<td>G</td>
<td>General programming.</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance.</td>
</tr>
<tr>
<td>14+</td>
<td>Viewers 14 and older.</td>
</tr>
<tr>
<td>18+</td>
<td>Adult programming.</td>
</tr>
<tr>
<td><strong>French Rating</strong></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>General programming.</td>
</tr>
<tr>
<td>8 ans+</td>
<td>Not recommended for young children.</td>
</tr>
<tr>
<td>13 ans+</td>
<td>Not recommended for ages under 13.</td>
</tr>
<tr>
<td>16 ans+</td>
<td>Not recommended for ages under 16.</td>
</tr>
<tr>
<td>18 ans+</td>
<td>Programming restricted to adults.</td>
</tr>
<tr>
<td><strong>USA Rating</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>See “TV Rating” on page 60 for details.</td>
</tr>
</tbody>
</table>
Using the Timer Menu

To select the Timer menu
1 Press MENU.
2 Move the joystick to the Timer icon and press .

To set the Current Time
1 Use the joystick to select “Current Time”, then press .
2 If it is currently Daylight Saving Time, be sure to set the mode to “ON” first.
3 Use the joystick to enter the correct time, then press .
4 Press MENU to exit the menu screen.

To set the Timer
Before setting the timer, be sure to set your projection TV’s clock to the current time and Daylight Saving Mode.
1 Move the joystick to “Timer 1” or “Timer 2”, then press .
2 Use the joystick to enter your day, time and channel preferences, then press to select each one.
3 Press MENU to exit the menu screen.

To reset the Clock or Timers
❑ Press RESET on the remote control after selecting that option in the Timer menu.

Selecting Timer Options

The Timer menu includes the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timer 1</td>
<td>Program (Select to set the Timer by day, time, duration, and channel.)</td>
</tr>
<tr>
<td>Timer 2</td>
<td>OFF (Select to turn off the Timer. (Your previous settings will be saved.)</td>
</tr>
<tr>
<td>Current Time</td>
<td>Set the current time.</td>
</tr>
<tr>
<td>Daylight Saving</td>
<td>ON (Select in the Spring to adjust the time during Daylight Saving Time.)</td>
</tr>
<tr>
<td></td>
<td>OFF (Select in the Fall to adjust the time at the end of Daylight Saving Time.)</td>
</tr>
</tbody>
</table>
Using the Setup Menu

To select the Setup Menu

1. Press MENU.
2. Move the joystick to the Setup icon and press.
3. Use the joystick to scroll through the features.
5. Use the joystick to scroll through the options.
6. Press to select the desired option.
7. Press MENU to exit the menu screen.

Selecting Setup Options

The Setup menu includes the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caption Vision</td>
<td>Allows you to select from three closed caption modes (for programs that are broadcast with closed captioning).</td>
</tr>
<tr>
<td>OFF</td>
<td>Turns off Caption Vision.</td>
</tr>
<tr>
<td>CC1, CC2, CC3, CC4</td>
<td>Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)</td>
</tr>
<tr>
<td>TEXT1, TEXT2, TEXT3, TEXT4</td>
<td>Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.</td>
</tr>
<tr>
<td>XDS (Extended Data Service)</td>
<td>Displays a network name, program name, program length, and time of the show if the broadcaster offers this service.</td>
</tr>
</tbody>
</table>
### Video Label
Allows you to label the audio/video components you connected to the projection TV so you can identify them when using TV/VIDEO. When in the Setup menu’s Video Label feature, use the joystick to highlight an input to label, then press \( \odot \) to select it. Use the joystick to scroll through the labels. Press \( \odot \) to select the component you connected to each of the input jacks on the back of your projection TV. Select “Skip” if you do not have a component connected to a particular set of input jacks.

<table>
<thead>
<tr>
<th>VIDEO 1</th>
<th>VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO 2/3/4</td>
<td>VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, DTV, Skip</td>
</tr>
<tr>
<td>VIDEO 5/6</td>
<td>DVD, DTV, HD, Skip</td>
</tr>
</tbody>
</table>

If you select “Skip”, your projection TV skips this connection when you press TV/VIDEO.

> When you select “Receiver” on Video Label, your projection TV’s input is fixed.

<table>
<thead>
<tr>
<th>Language</th>
<th>Select to display all on-screen menus in your language of choice: English, Español, Français.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>16:9 Enhanced</th>
<th>Provides enhanced picture resolution for widescreen sources, such as selected DVD titles (only available when the projection TV is in VIDEO mode). Press TV/VIDEO and select from one of the following options:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>To activate automatically when a 16:9 signal is received.</td>
</tr>
<tr>
<td>ON</td>
<td>To activate manually.</td>
</tr>
<tr>
<td>OFF</td>
<td>To deactivate manually.</td>
</tr>
</tbody>
</table>

> AUTO/ON will appear when the projection TV is in VIDEO mode 1-6. ON/OFF will appear when the projection TV is in VIDEO mode 5-6 and the 480p signal occurs.

To use this feature with widescreen DVDs, set your DVD player to 16:9 aspect ratio.
Other Information

Programming the Remote Control

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

<table>
<thead>
<tr>
<th>Sony Equipment</th>
<th>Switch Position on Remote Control</th>
<th>Programmable Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta, ED Beta VCRs</td>
<td>AV1</td>
<td>303</td>
</tr>
<tr>
<td>8 mm VCR</td>
<td>AV2</td>
<td>302</td>
</tr>
<tr>
<td>VHS VCR</td>
<td>AV3</td>
<td>301</td>
</tr>
<tr>
<td>DVD Player</td>
<td>DVD</td>
<td>751</td>
</tr>
</tbody>
</table>

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

1. Open the panel of the remote control.
2. Press CODE SET inside the panel.
3. Close the panel and press SAT/CABLE (FUNCTION).
4. Enter the three-digit manufacturer’s code number using the 0-9 buttons.
5. Press ENTER.
6. To check if the code number works, aim the projection TV’s remote control at the component and press the green POWER button that corresponds with that component. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

The equipment must have infrared (IR) remote capability in order to be used with the remote control.

From the “Manufacturer’s Codes” listed on page 67, select the three-digit code number for the manufacturer’s code for your component. If more than one code number is listed, start with the number listed first. Use the code number to complete the following procedure.

To program a cable box or a satellite receiver

1. Open the panel of the remote control.
2. Press CODE SET inside the panel.
3. Close the panel and press SAT/CABLE (FUNCTION).
4. Enter the three-digit manufacturer’s code number using the 0-9 buttons.
5. Press ENTER.
6. To check if the code number works, aim the projection TV’s remote control at the component and press the green POWER button that corresponds with that component. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

(Continued)
To program video equipment

1. Open the panel of the remote control.
2. Move the slide switch to the desired component type.
3. Press CODE SET inside the panel.
4. Close the panel and enter the three-digit manufacturer’s code number using the 0-9 buttons.
5. Press ENTER.
6. To check if the code number works, aim the projection TV’s remote control at the component, open the panel, and press the green POWER button. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

Tips
- If more than one code number is listed, try entering them one by one until you come to the correct code for your component.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your component with the Sony remote control. In this case, use the component’s own remote control unit.
### Manufacturer’s Codes

#### VCRs

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

#### DVD Players

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wards</td>
<td>327, 328, 335, 331, 332</td>
</tr>
<tr>
<td>Yamaha</td>
<td>314, 330, 336, 337</td>
</tr>
<tr>
<td>Zenith</td>
<td>331</td>
</tr>
</tbody>
</table>

#### Cable Boxes

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

#### Satellite Receivers

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sony</td>
<td>801</td>
</tr>
<tr>
<td>General Electric</td>
<td>802</td>
</tr>
<tr>
<td>Hitachi</td>
<td>805</td>
</tr>
<tr>
<td>Hughes</td>
<td>804</td>
</tr>
<tr>
<td>Panasonic</td>
<td>803</td>
</tr>
<tr>
<td>RCA/PROSCAN</td>
<td>802, 808</td>
</tr>
<tr>
<td>Toshiba</td>
<td>806, 807</td>
</tr>
</tbody>
</table>
Operating Other Components with Your Projection TV Remote Control

Operating a VCR

Open the panel and move the slide switch to the AV input you coded for this device.

<table>
<thead>
<tr>
<th>To Do This ...</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on/off</td>
<td>green POWER button (inside the panel)</td>
</tr>
<tr>
<td>Change channels</td>
<td>CH +/-</td>
</tr>
<tr>
<td>Record</td>
<td>► and REC simultaneously</td>
</tr>
<tr>
<td>Play</td>
<td>►</td>
</tr>
<tr>
<td>Stop</td>
<td>■</td>
</tr>
<tr>
<td>Fast forward</td>
<td>►►</td>
</tr>
<tr>
<td>Rewind the tape</td>
<td>◄◄</td>
</tr>
<tr>
<td>Pause</td>
<td>■ (press again to resume normal playback)</td>
</tr>
<tr>
<td>Search the picture forward or backward</td>
<td>►► or ◄◄ during playback (release to resume normal playback)</td>
</tr>
<tr>
<td>Change input mode</td>
<td>Slide switch</td>
</tr>
</tbody>
</table>

Operating a DVD Player

Open the panel and move the slide switch to the DVD input you coded for this device.

<table>
<thead>
<tr>
<th>To Do This ...</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on/off</td>
<td>green POWER button (inside the panel)</td>
</tr>
<tr>
<td>Play</td>
<td>►</td>
</tr>
<tr>
<td>Stop</td>
<td>■</td>
</tr>
<tr>
<td>Pause</td>
<td>■ (press again to resume normal playback)</td>
</tr>
<tr>
<td>Step through different tracks of an audio disc</td>
<td>►► to step forward or ◄◄ to step backward</td>
</tr>
<tr>
<td>Step through different chapters of a video disc</td>
<td>CH+ to step forward or CH– to step backward</td>
</tr>
<tr>
<td>Display the DVD menu</td>
<td>DVD MENU</td>
</tr>
<tr>
<td>Display the menu (Setup)</td>
<td>MENU</td>
</tr>
<tr>
<td>Operate the DVD menu</td>
<td>↑, ↓, ←, →, ENTER</td>
</tr>
</tbody>
</table>
### Operating a Cable Box

<table>
<thead>
<tr>
<th>To Do This ...</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on/off</td>
<td>SAT/CABLE (POWER)</td>
</tr>
<tr>
<td>Select Cable Box</td>
<td>SAT/CABLE (FUNCTION)</td>
</tr>
<tr>
<td>Select a channel</td>
<td>0-9 buttons, ENTER</td>
</tr>
<tr>
<td>Change channels</td>
<td>CH +/-</td>
</tr>
<tr>
<td>Back to previous channel</td>
<td>JUMP</td>
</tr>
</tbody>
</table>

### Operating a Satellite Receiver

<table>
<thead>
<tr>
<th>To Do This ...</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on/off</td>
<td>SAT/CABLE (POWER)</td>
</tr>
<tr>
<td>Select Satellite Receiver</td>
<td>SAT/CABLE (FUNCTION)</td>
</tr>
<tr>
<td>Select a channel</td>
<td>0-9 buttons, ENTER</td>
</tr>
<tr>
<td>Change channels</td>
<td>CH +/-</td>
</tr>
<tr>
<td>Back to previous channel</td>
<td>JUMP</td>
</tr>
<tr>
<td>Display channel number</td>
<td>DISPLAY</td>
</tr>
<tr>
<td>Display DBS guide</td>
<td>GUIDE</td>
</tr>
<tr>
<td>Display DBS menu</td>
<td>MENU</td>
</tr>
<tr>
<td>Move highlight (cursor)</td>
<td>Joystick or arrows</td>
</tr>
<tr>
<td>Select item</td>
<td>3</td>
</tr>
</tbody>
</table>
Other Information

Troubleshooting

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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Remedies</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture (screen not lit), no sound</td>
<td>❏ Make sure the projection TV’s power cord is connected securely to the wall outlet. ❏ Push the power button on the front of the projection TV. ❏ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6. ❏ Try another channel. It could be station trouble. ❏ The Parental Control feature is activated (see “Using the Parent Menu” on page 54). ❏ If your projection TV does not turn on, and a red light keeps flashing, your projection TV may need service. Call your local Sony Service Center.</td>
</tr>
<tr>
<td>Remote control does not operate</td>
<td>❏ Batteries could be weak. Replace the batteries. ❏ Press TV (FUNCTION) when operating your projection TV. ❏ Make sure the projection TV’s power cord is connected securely to the wall outlet. ❏ Locate the projection TV at least 3-4 feet away from fluorescent lights. ❏ Check the orientation of the batteries.</td>
</tr>
<tr>
<td>Dark, poor or no picture (screen lit), good sound</td>
<td>❏ Adjust the Picture setting in the Video menu (see page 48). ❏ Adjust the Brightness setting in the Video menu (see page 48). ❏ Check antenna/cable connections. ❏ Adjust the convergence again using FLASH FOCUS (see “Adjusting the Convergence Automatically – FLASH FOCUS™ –” on page 33).</td>
</tr>
<tr>
<td>Good picture, no sound</td>
<td>❏ Press MUTING so that “MUTING” disappears from the screen (see page 34). ❏ Make sure Speaker is set to ON in the Audio menu (see page 51). ❏ Check the MTS setting in the Audio menu (see “MTS” on page 50).</td>
</tr>
<tr>
<td>Cannot receive digital channels (when a DTV receiver is connected)</td>
<td>❏ Check the connections between the DTV receiver and the projection TV (see page 28). ❏ Check your local listings to find out if you can receive digital broadcasts in your area.</td>
</tr>
<tr>
<td>Cannot receive upper channels (UHF) when using an antenna</td>
<td>❏ Change Cable to OFF (see page 52). ❏ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 53).</td>
</tr>
<tr>
<td>No color</td>
<td>❏ Adjust the Color settings in the Video menu (see page 48).</td>
</tr>
<tr>
<td>Only snow and noise appear on the screen</td>
<td>❏ Check the Cable setting in the Channel menu (see “Cable” on page 52). ❏ Check the antenna/cable connections. ❏ Make sure the channel is broadcasting programs. ❏ Press ANT to change the input mode (see page 37).</td>
</tr>
<tr>
<td>Dotted lines or stripes</td>
<td>❏ Adjust the antenna. ❏ Move the projection TV away from noise sources such as cars, neon signs, or hairdryers.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Remedies</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Projection TV is fixed to one channel                                  | ❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 53).  
❑ Check your Channel Fix settings (see page 53).                                                                                                         |
| Double images or ghosts                                                | ❑ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).                                                                            |
| Cannot operate menu                                                    | ❑ If the item you want to choose appears in gray, you cannot select it.  
❑ Turn the projection TV’s power off and on again.                                                                                                     |
| Cannot receive any channels when using cable TV                        | ❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 53).  
❑ Check your cable settings.  
❑ Make sure Cable is set to ON in the Channel menu (see page 52).                                                                                   |
| Cannot gain enough volume when using a cable box                       | ❑ Increase the volume of the cable box using the cable box’s remote control. Then press TV (FUNCTION) and adjust the projection TV’s volume.                                                                   |
| Channel Index does not display all available channels                  | ❑ Make sure Cable is set to ON in the Channel menu (see “Cable” on page 52).  
❑ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 53).                                         |
| Cannot receive channels Unable to select a channel                     | ❑ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 53).                                                                                         |
| Lost password                                                          | ❑ In the password screen (see page 54), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.                                    |
| Cannot change channels with the remote control                        | ❑ Be sure you have not inadvertently switched your projection TV from 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 the “function” button for that device has been pressed, or the slide switch is set correctly. For example, if you are using your cable to control channels, be sure to press SAT/CABLE. |
| Cannot cycle through the other video equipment connected to the projection TV | ❑ Be sure the Video Label feature has not been set to Skip (see page 64).                                                                                                                                         |
| There is a black box on the screen                                     | ❑ You have selected a text option in the Setup menu and no text is available (see page 63 to reset Setup selections). To turn this feature off, select OFF in the Caption Vision option. If you were trying to get closed captioning, select CC1 instead of Text 1-4.        |
| There is no twin picture or it is just static                          | ❑ Be sure your twin picture is set to a video source/channel that has a program airing.  
❑ You may be tuned to a video input with nothing connected to it. Try cycling through your video inputs using TV/VIDEO.  
❑ Twin View is not set to receive a signal from the AUX input. If you have connected a VCR, DVD player or satellite receiver to the AUX input on the projection TV, it will not show in the second picture. |
### Other Information

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Remedies</th>
</tr>
</thead>
<tbody>
<tr>
<td>You get the same program in the window picture as in the main picture</td>
<td>❑ Both may be set to the same channel. Try changing channels in either the main picture or the window picture.</td>
</tr>
<tr>
<td></td>
<td>❑ You may be running all your channels through a cable box. The cable box will only unscramble one signal at a time, so you cannot use the Twin View feature. If possible, run a direct cable to your projection TV’s VHF/UHF input (this will only work if your cable system provides an unscrambled signal).</td>
</tr>
<tr>
<td>You cannot get anything but TV channels in your second picture</td>
<td>❑ Be sure the video label has not been set to skip your video inputs. See the Setup menu on page 63.</td>
</tr>
<tr>
<td>Favorite Channel does not display your choices</td>
<td>❑ Verify that Favorite Channel is set to Manual in the Channel menu (see “Favorite Channel” on page 52).</td>
</tr>
<tr>
<td>Some video sources do not appear when you press TV/VIDEO</td>
<td>❑ Ensure that Video Label is not set to SKIP (see “Video Label” on page 64).</td>
</tr>
</tbody>
</table>
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projection System</td>
<td>3 picture tubes, 3 lenses, horizontal in-line system</td>
</tr>
<tr>
<td>Picture Tube</td>
<td>7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system</td>
</tr>
<tr>
<td>Projection Lenses</td>
<td>High performance, large diameter hybrid lens F1.1</td>
</tr>
<tr>
<td>Antenna</td>
<td>75 ohm external terminal for VHF/UHF</td>
</tr>
<tr>
<td>Television System</td>
<td>NTSC, American TV Standard</td>
</tr>
</tbody>
</table>
| Screen Size (measured diagonally) | 43 inches (KP-43HT20)  
53 inches (KP-53HS20, KP-53HS30)  
61 inches (KP-61HS20, KP-61HS30)                                                         |
| Channel Coverage              |                                                                                                                                 |
| VHF                           | 2-13                                                                                                                                   |
| UHF                           | 14-69                                                                                                                                  |
| CATV                          | 1-125                                                                                                                                   |
| Power Requirements            | 120V, 60 Hz                                                                                                                             |
| Number of Inputs/Outputs      |                                                                                                                                 |
| Video (IN)                    | 4  
1 Vp-p, 75 ohms unbalanced, sync negative                                                                                               |
| S Video (IN)                  | 3  
Y: 1 Vp-p, 75 ohms unbalanced, sync negative  
C: 0.286 Vp-p (Burst signal), 75 ohms                                                                                                      |
| Audio (IN)                    | 6  
500 mVrms (100% modulation)  
Impedance: 47 kiloohms                                                                                                                     |
| Audio (VAR/FIX) OUT           | 1  
500 mVrms (100% modulation), Impedance: 470 ohms                                                                                       |
| TV Out                        | 1  
1 Vp-p, 75 ohms unbalanced, sync negative                                                                                               |
| CONTROL S (IN/OUT)            | 1  
Minijacks                                                                                                                              |
| Component Video Input         | 2 (Y, P_B, P_R)  
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative  
P_B: 0.7 Vp-p, 75 ohms  
P_R: 0.7 Vp-p, 75 ohms                                                                 |
| RF Inputs                     | 2                                                                                                                                       |
| Converter                     | 1                                                                                                                                       |
### Other Information

<table>
<thead>
<tr>
<th>Supplied Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Control</td>
</tr>
<tr>
<td>AA (R6) Batteries</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV Cable</td>
</tr>
<tr>
<td>Audio Cable</td>
</tr>
<tr>
<td>Control S Cable</td>
</tr>
<tr>
<td>Component Video Cable</td>
</tr>
<tr>
<td>AV Receiver</td>
</tr>
<tr>
<td>TV Stand</td>
</tr>
<tr>
<td>Speaker Output</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions (W × H × D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>38 × 42 1/8 × 22 1/3 inches (965 × 1,069 × 577 mm) (KP-43HT20)</td>
</tr>
<tr>
<td>46 1/2 × 55 1/8 × 25 inches (1,180 × 1,417 × 632 mm) (KP-53HS20, KP-53HS30)</td>
</tr>
<tr>
<td>54 × 61 1/2 × 26 1/4 inches (1,370 × 1,560 × 666 mm) (KP-61HS20, KP-61HS30)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>127 lb 14 oz (58 kg) (KP-43HT20)</td>
</tr>
<tr>
<td>152 lb 9 oz (69.2 kg) (KP-53HS20)</td>
</tr>
<tr>
<td>157 lb (71.2 kg) (KP-53HS30)</td>
</tr>
<tr>
<td>203 lb 11 oz (92.4 kg) (KP-61HS20)</td>
</tr>
<tr>
<td>210 lb 5 oz (95.4 kg) (KP-61HS30)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Use</td>
</tr>
<tr>
<td>In Standby</td>
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Design and specifications are subject to change without notice.
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If, after reading this instruction manual, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).

Customers in the continental United States contact the Direct Response Center at:
1-800-222-SONY (7669)
Customers in Canada contact the Customer Relations Center at:
(416) 499-SONY (7669)