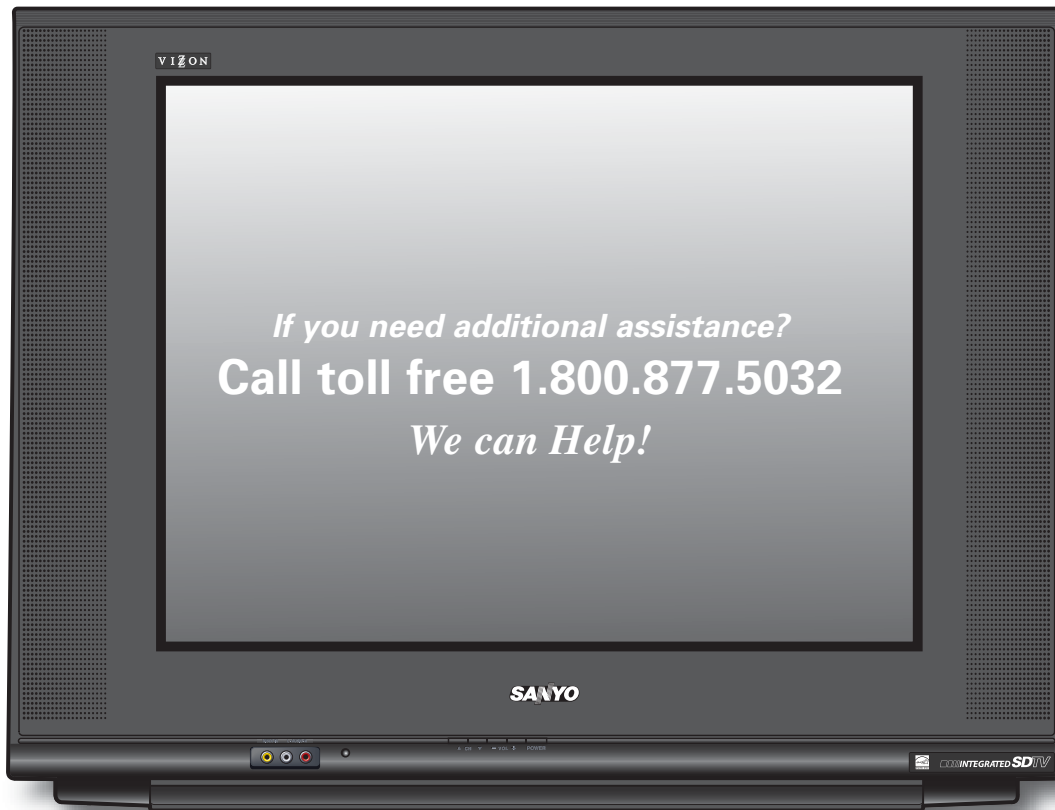




Model No: **HT27547**



**For more HOOKUP OPTIONS go to our web site at:**  
**[www.sanyoctv.com/entertainment/televisions](http://www.sanyoctv.com/entertainment/televisions). Click on *Hookup Diagrams***  
**in the box to the right.**

**On the HookUp Diagrams page, click on CRT to CABLE, DVD, and SATELLITE to view hookup diagrams specific to SDTV models.**

**Owner's Manual**

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## ***Welcome to the World of Sanyo***

*Thank you for purchasing this Sanyo Television. You made an excellent choice for Performance, Reliability, Features, Value, and Styling.*

### ***Important Information***

*Before installing and operating this DTV, read this manual thoroughly. This DTV provides many convenient features and functions. Operating the DTV properly enables you to manage those features and maintain it in good condition for many years to come.*

*If your DTV seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the “Helpful Hints” sections of this manual.*

*If the problem still persists, please call **1-800-877-5032. We can help!***

<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT. 
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 INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THIS UNIT. 

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## IMPORTANT SAFETY INSTRUCTIONS

**CAUTION: PLEASE ADHERE TO ALL WARNINGS ON THE PRODUCT AND IN THE OPERATING INSTRUCTIONS. BEFORE OPERATING THE PRODUCT, PLEASE READ ALL OF THE SAFETY AND OPERATING INSTRUCTIONS. RETAIN THIS LITERATURE FOR REFERENCE. *Follow all instructions...***

### Positioning the appliance

1. Do not place your appliance on an unstable cart, stand, shelf or table. Serious injury to an individual, and damage to the appliance, may result if it should fall. Your salesperson can recommend approved carts and stands or shelf and wall mounting instructions. 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.



2. Slots and openings in the cabinet and in the back or bottom are provided for ventilation. To ensure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be covered with a cloth or other material, and the bottom openings should not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
3. Do not expose the appliance to rain or use near water . . . for example, near a bathtub, swimming pool, kitchen sink, in a wet basement, etc.

### Hooking Up Outdoor Antenna

**LIGHTNING PROTECTION FOR YOUR ANTENNA AND SET AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS.**

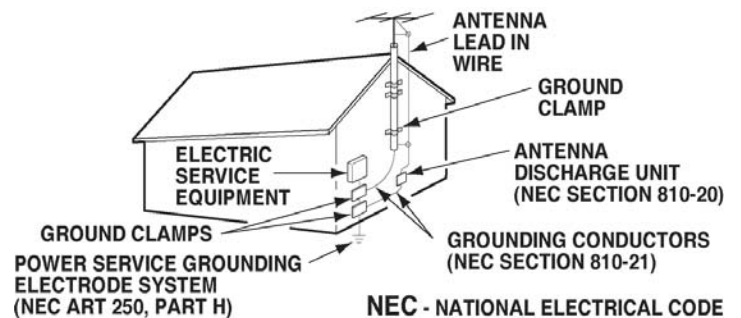
#### EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

4. If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, 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.

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

#### EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



“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.”

**(CONTINUED ON NEXT PAGE.)**

## IMPORTANT SAFETY INSTRUCTIONS

**CAUTION: PLEASE ADHERE TO ALL WARNINGS ON THE PRODUCT AND IN THE OPERATING INSTRUCTIONS. BEFORE OPERATING THE PRODUCT, PLEASE READ ALL OF THE SAFETY AND OPERATING INSTRUCTIONS. RETAIN THIS LITERATURE FOR REFERENCE. *Follow all instructions...***

### Plug in the power cord

5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of this polarized plug. Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
  6. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- C. If the appliance has been exposed to rain or water.
  - D. If the appliance has been dropped or the cabinet has been damaged.
  - E. If the appliance exhibits a distinct change in performance.
  - F. If the appliance does not operate normally by following the operating instructions, adjust only those controls that are covered 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 appliance to normal operation.
9. Upon completion of any service or repair, request the service technician's assurance that only Factory Authorized Replacement Parts that have the same characteristics as the original parts were used, and that routine safety checks have been performed to determine that the appliance is in safe operating condition. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

### Cleaning

7. Before cleaning, unplug the unit from the wall outlet. Do not apply liquid cleaners or aerosol cleaners directly to the unit. Use a dry cloth for cleaning.

### Service & Repair

8. Unplug the appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - A. If the power cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the appliance.
10. Never add accessories that have not been specifically designed for use with this appliance as they may cause hazards.
11. For added protection during a lightning storm, or when the set 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 set due to lightning or power line surges.
12. Never push objects of any kind into this product through openings 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 product.

## PROTECTING THE DTV SCREEN



The screen is likely to be damaged if it is not maintained properly. Do not use hard objects such as hard cloth or paper. Do not use excessive pressure when cleaning the screen; excessive pressure can cause permanent discoloration or dark spots.

NEVER spray liquids on the screen.



### Cleaning the Cabinet

1. Unplug the power cord before cleaning the TV screen.
2. Gently wipe the screen and cabinet with a dry cloth.

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## FEATURES

- ◆ 27" Flat Screen
- ◆ Trilingual Menu Options (English, Spanish, or French)
- ◆ Built-in Digital/Analog Tuner
- ◆ Automatic Channel Search
- ◆ V-Chip for Movies and TV guidelines rating limits (parental control)
- ◆ Closed-Captioning: Analog EIA-608B  
Digital EIA-708B
- ◆ Audio Modes: Digital—Main and Sub  
Analog—Stereo, Mono, and SAP
- ◆ Front speakers (two): 6 x12 cm
- ◆ Factory preset adjustments for picture/sound: Auto, Manual with Tone Control
- ◆ Picture Shape: PIX1 ~ PIX3
- ◆ Audio Format: Dolby® Digital for ATSC (DTV) and Analog for NTSC
- ◆ Receivable Formats: Digital Tuner for ATSC terrestrial broadcasts and nonscrambled (ClearQAM) cable channels.  
NTSC analog tuner for VHF/UHF or CATV
- ◆ Channel Scan Memory
- ◆ Receives 181 Analog Channels (VHF 2~13 and UHF 14~69; Cable 14~125); and 99 Digital Channels
- ◆ XDS (Extended Data Services) displays station call letters, title of show, and ratings when broadcast
- ◆ Sleep Timer (3 hours)
- ◆ 32-Key Remote Control
- ◆ TERMINAL and CONNECTORS:  
RF Antenna Input Jack: Digital and Analog  
Component Video (Y-Pb-Pr) Input with Shared Audio  
S-Video Input  
Rear Composite AV Input Jacks  
Optical Digital Audio Out  
Fixed Audio Out (Left/Right)

# SPECIFICATIONS

SCREEN SIZE:	27" Flat Screen
SCANNING FORMAT:	480i (All Signals are Converted to 480i)
RF ANTENNA INPUT:	75 ohm—Digital/Analog
POWER REQUIREMENT:	Source: AC 120V, 60Hz
POWER CONSUMPTION:	85 Watts (Average)
SOUND:	Two Speakers, size: 6 x 12 cm
AMPLIFIER:	Built-in with 1.0 W/ch

## JACKS / CONNECTORS:

VIDEO1	Front Composite Video and Audio R/L
VIDEO2	Rear Composite Video with Audio R/L Input S-Video
VIDEO2	Component (Y/ Pb/ Pr) with shared Audio R/L Input
Digital Audio Output:	Dolby® Digital (Optical Cable)
Analog Audio Output:	Fixed Audio R/L

## SIZE AND WEIGHT (APPROXIMATELY):

Horizontal Dim. (Width):	30.3 in. (770mm)
Vertical Dim. (Height):	23.0 in. (585mm)
Depth Dim. (Thickness):	19.5 in. (496mm)
Weight:	103.5 (lbs.) 47.0 (Kg)

**Specifications are subject to change without notice.**

**CAUTION:** FCC Regulations state that improper modifications or unauthorized changes to this unit may void the user's authority to operate the unit.

## Trademarks Information:



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

**VIZON**® with a double "Z" is a registered trademark of Sanyo Manufacturing Corporation.



This symbol on the nameplate means the product is Listed by Underwriters' Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.



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



MediaStack-ATSC the DTV software embedded in this product copyright (c) 2004 by Zentek Technology, Inc. All rights reserved.

## DTV FRONT PANEL



**Audio/Video Input (VIDEO1)**—Connect analog video equipment here. **See PAGES 19, 20, and 21 for AV VIDEO1 jack connection.**

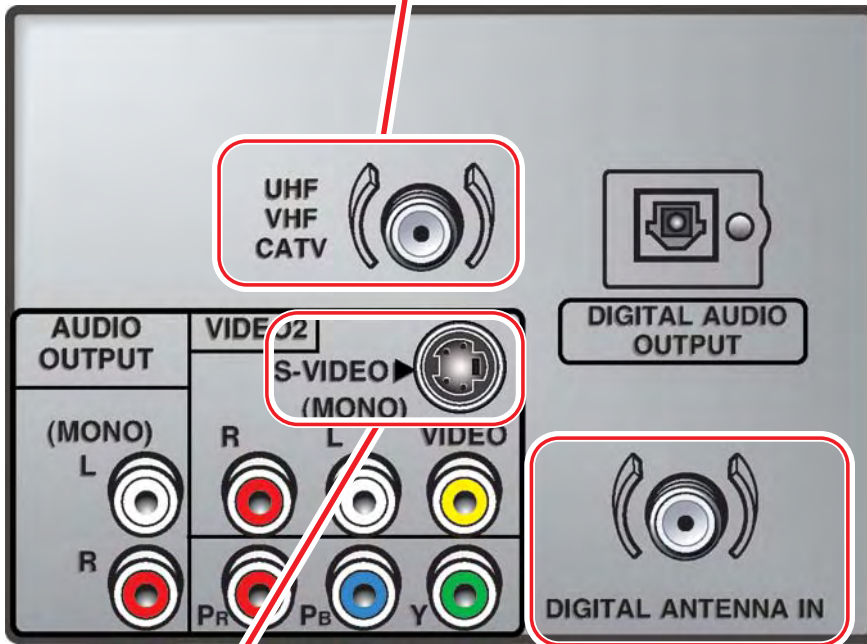
**▲ CH ▼, - VOL +, and POWER**

NOTE: The **Channel ▲** (up) / **▼** (down), **Volume +** (up) / **-** (down), and **Power** keys function exactly like the keys on your remote control.



## DTV BACK PANEL

**Analog Antenna Input (UHF/VHF/CATV)**—Connect an RF antenna or Analog Cable system to this jack. **See PAGE 14 for Signal connections.**



**S-Video Input (VIDEO1)**—To enhance video detail use the S-Video jack instead of the Video jack, if available on your external equipment. (S-Video connection will override a connection to the Video input jack [VIDEO2]). **See PAGES 19 and 21 for S-Video connections.**

**Digital Antenna Input**—Connect an RF antenna to this jack. **See PAGE 13 for Signal connections.**

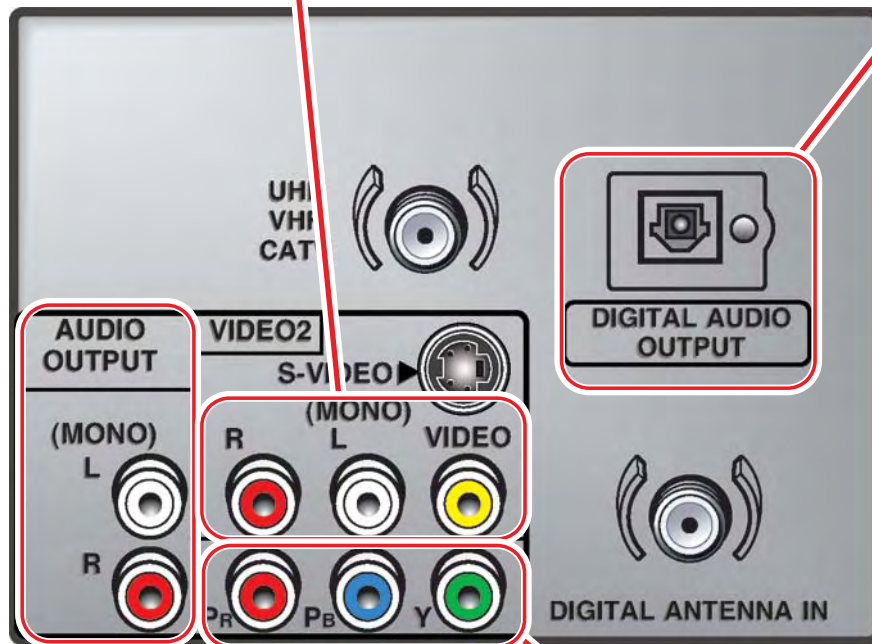
*(CONTINUED ON NEXT PAGE.)*

## DTV BACK PANEL

**Audio/Video Input (VIDEO2)**—Connect analog video equipment here. **See PAGES 19, 20, and 21 for AV VIDEO2 jack connections.**

*Note: S-Video connection overrides the (Video1) composite video connection.*

**Digital Audio Output**—Use an Optical Digital Audio Out Cable to connect Digital Audio Output to an advanced stereo home theater system equipped with Dolby® Digital 5.1. **See PAGE 22 for Digital Audio Out jack connection.**

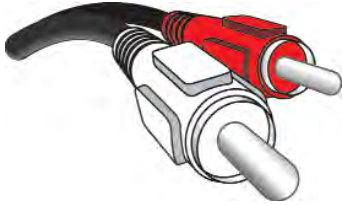


**Analog Audio Out (L/R) Jacks**—Connect external audio equipment here. **See PAGE 14 for Audio connections.**

**Component Video Input (VIDEO2)**—Connect digital video equipment to the Y (green), Pb (blue), Pr (red) and Audio L/R jacks. These jacks will automatically detect the type of signal being received. **See PAGES 16, 17, and 18 for Component jack connections.**

## GLOSSARY OF CABLES

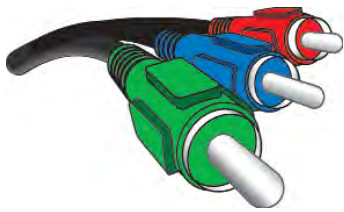
**Audio Cables**—Provides analog left/right audio for your external equipment connections.



**75 Ohm Coaxial Cable with F-Connector**—Used to connect a signal to your digital or Analog RF Antenna In terminal.



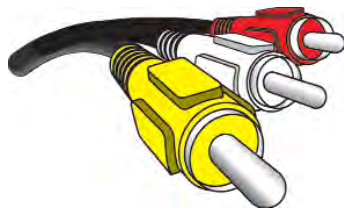
**Component: Y, Pb, Pr**—Use these cables to connect your component equipment. This connection provides the best picture, but does not include sound. (Cable colors: Y = green, Pb = blue, and Pr = red.)



**Optical Digital Audio**—Use this cable to connect the DTV's digital audio output to a multichannel audio receiver.



**Composite Audio/Video (RCA type)**—Use these cables for standard analog audio/video connections. Normally cables are color coded: Yellow for Video, White for (L) Audio, and Red for (R) Audio.



**S-Video Cable**—This cable provides separate luminance and color signals for higher resolution and better picture quality. Use this cable instead of the regular composite video cable (RCA type), when available.



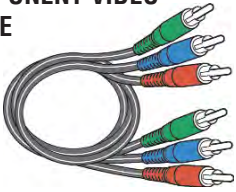
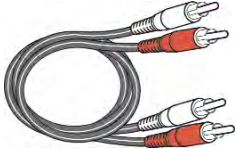
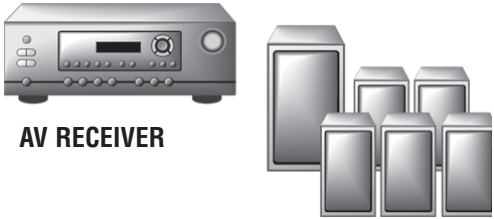
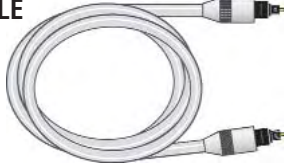



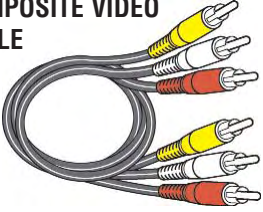
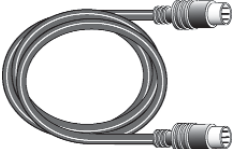

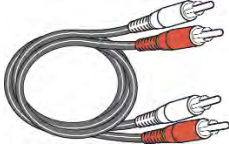
*NOTE: None of these cables are supplied with this DTV.*



## CHOOSE YOUR CONNECTION

This DTV is designed to handle several different connections making it compatible with Digital and Analog devices.

In order to receive the best performance from your DTV, choose your connection using this chart; then go to the specified page for detailed instructions.

Digital Signal Connections	Compatible External Equipment	Cables Needed (Not Supplied)	Go to Page
<p><b>COMPONENT (Y, Pb, Pr) IN</b></p> <p><i>Will accept HDTV, EDTV, or SDTV Video content.</i></p> <p><i>(Requires separate audio connections.)</i></p>	<p><b>VIDEO GAME</b></p>  <p><b>DIGITAL SET-TOP BOX or DVD PLAYER</b></p> 	<p><b>COMPONENT VIDEO CABLE</b></p>  <p><b>AUDIO CABLE</b></p> 	<p><b>16</b></p> <p><b>17</b></p> <p><b>18</b></p>
<p><b>DIGITAL AUDIO OUT</b></p> <p><i>(Only available when received as part of the Digital RF signal displayed on-screen.)</i></p>	<p><b>AV RECEIVER</b></p> 	<p><b>OPTICAL DIGITAL CABLE</b></p> 	<p><b>22</b></p>
<p><b>COMPOSITE VIDEO OR S-VIDEO IN</b></p> <p><b>LEFT / RIGHT ANALOG AUDIO IN</b></p>	<p><b>VIDEO GAME</b></p>  <p><b>DVD PLAYER</b></p>  <p><b>VCR</b></p> 	<p><b>COMPOSITE VIDEO CABLE</b></p>  <p><b>S-VIDEO CABLE</b></p> 	<p><b>19</b></p> <p><b>20</b></p> <p><b>21</b></p>
<p><b>ANALOG AUDIO OUT JACKS</b></p>	<p><b>STEREO AMPLIFIER SYSTEM</b></p> 	<p><b>AUDIO CABLE</b></p> 	<p><b>23</b></p>

# GETTING STARTED (REQUIRED INITIAL SETUP)

- 1 Install batteries in remote control (2AA, not included).



## PRECAUTIONS

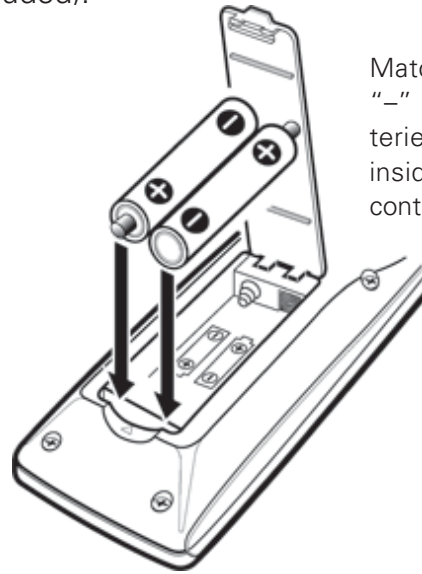
To ensure safe operation, please observe the following precautions:

Replace both batteries at the same time. Do not use a new battery with a used battery.

Risk of explosion, if battery is replaced by an incorrect type.

Do not expose the Remote Control Unit to moisture or heat.

Remove the batteries if the Remote Control will not be used for a month or more. Discharged batteries may leak and damage the unit.

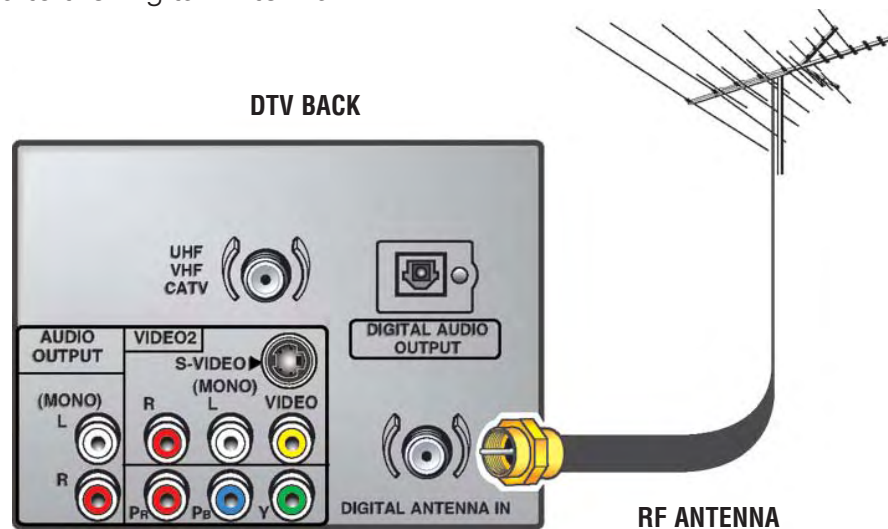


Match the "+" and "-" signs on the batteries with marks inside the remote control.

- 2 Connect Signal to the DTV's Digital 75 ohm Antenna Input terminal.

## Digital (DTV) RF Antenna Connection

Connect an RF antenna to the Digital Antenna In terminal.



### THE TUNER IN THIS DTV CAN RECEIVE:

1. Digital and / or Analog Off-Air Signals from an RF antenna.

OR

2. Analog or ClearQAM cable channels.

Note: You must search for ClearQAM channels using the "Digital Cable Search" menu option.

OR

3. The output from a VCR or cable box.

Digital signals from a Set-top (STB) Box should be received through the Component jacks.

This DTV can receive ANY unscrambled RF signal being broadcast.

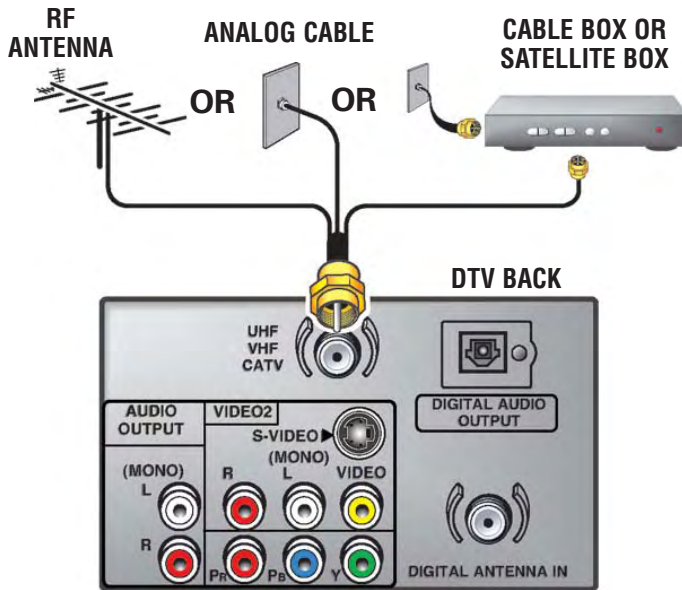
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# GETTING STARTED (REQUIRED INITIAL SETUP) *Continued*

**3** Connect Signal to the DTV's an Analog 75 ohm Antenna Input terminal.

### Analog RF Antenna Connection

Connect a Cable signal (with or without a cable box) or RF antenna to the Analog RF input.



### THE TUNER IN THIS DTV CAN RECEIVE:

1. Digital and / or Analog Off-Air Signals from an RF antenna.

OR

2. Analog or ClearQAM cable channels.

Note: You must search for ClearQAM channels using the "Digital Cable Search" menu option.

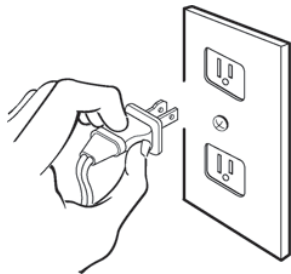
OR

3. The output from a VCR or cable box.

Digital signals from a Set-Top (STB) Box should be received through the Component jacks.

This DTV can receive ANY unscrambled RF signal being broadcast.

**4** Plug AC Power Cord (supplied) into an electrical outlet as shown here.



To 120 V AC outlet.

**5** Press the **POWER** key. (Follow on-screen instructions).



**6** Perform "All Channel Search." The All Channel Search will search for off-air digital and analog channels, and analog cable channels. The DTV can receive cable or off-air channels, but not at the same time. *If after two searches the DTV still fails to detect any channels, the DTV will tune to Video1.*

Please wait while  
Your TV searches  
for available channels.

Analog channel 12



Finishing Digital  
Channel Search.

Channel Search [Analog & Digital]  
on-screen display

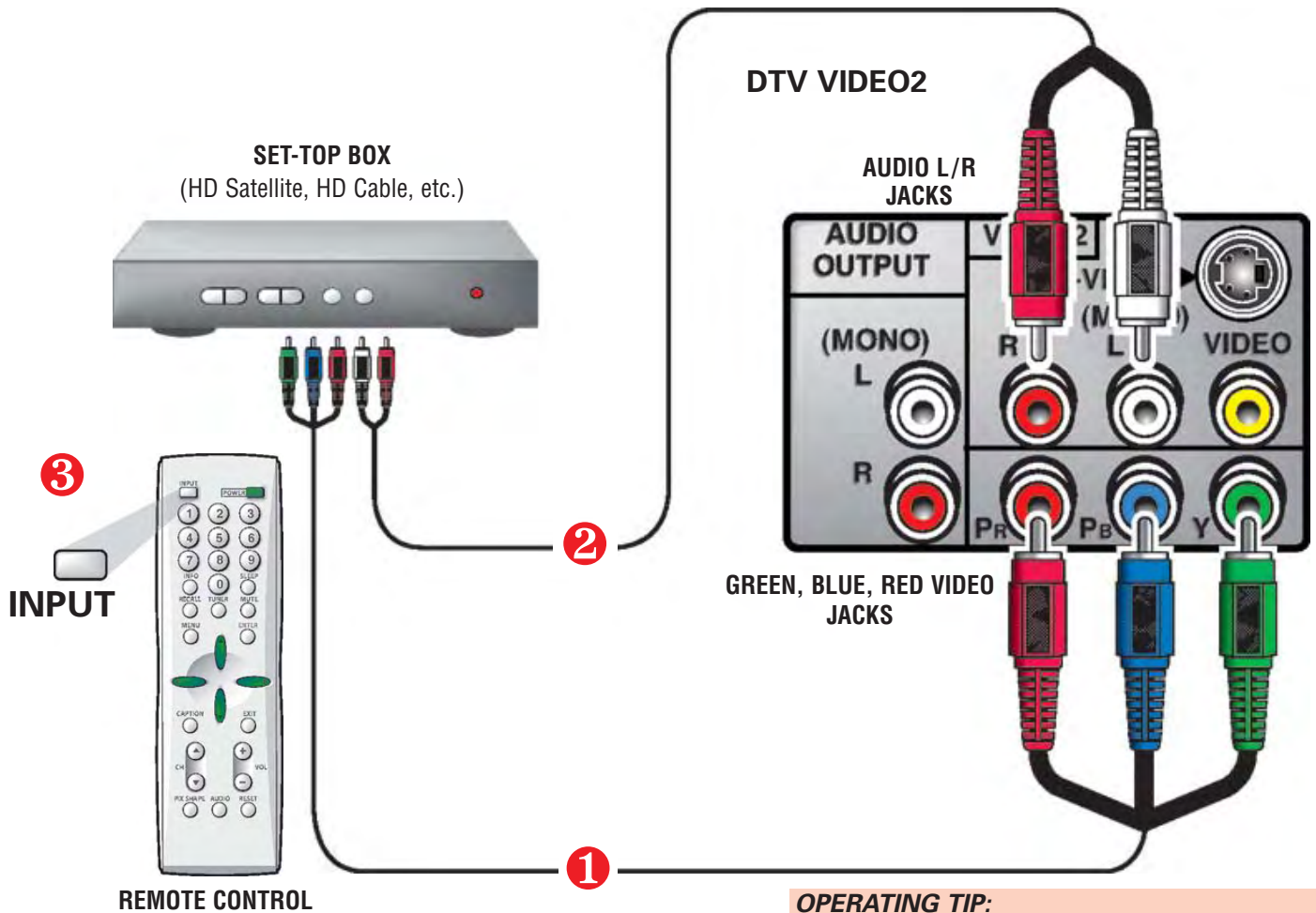
## VIDEO2 COMPONENT JACKS: *Connection Option 1*

### CONNECTING A SET-TOP (STB)

- 1 Connect a Component Cable to the VIDEO2 Green, Blue, and Red video jacks.
- 2 Connect an Audio Cable to the matching VIDEO2 White and Red audio jacks.

- 3 Press **INPUT** to select *Video 2* to view the program.

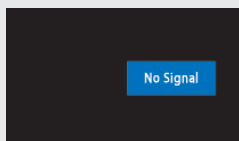
*Note: Audio/Video Input (VIDEO2) and Component inputs share the same audio (R/L) input jacks.*



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### **SYMPTOM**

"No Signal" will appear randomly on the screen when no signal is detected at the video jacks.



#### **CHECK THESE CONDITIONS**

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

#### **TRY THESE SOLUTIONS**

- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

*If you continue to experience problems, please call toll free  
**1-800-877-5032. We can Help!***

## VIDEO2 COMPONENT JACKS: *Connection Option 2*

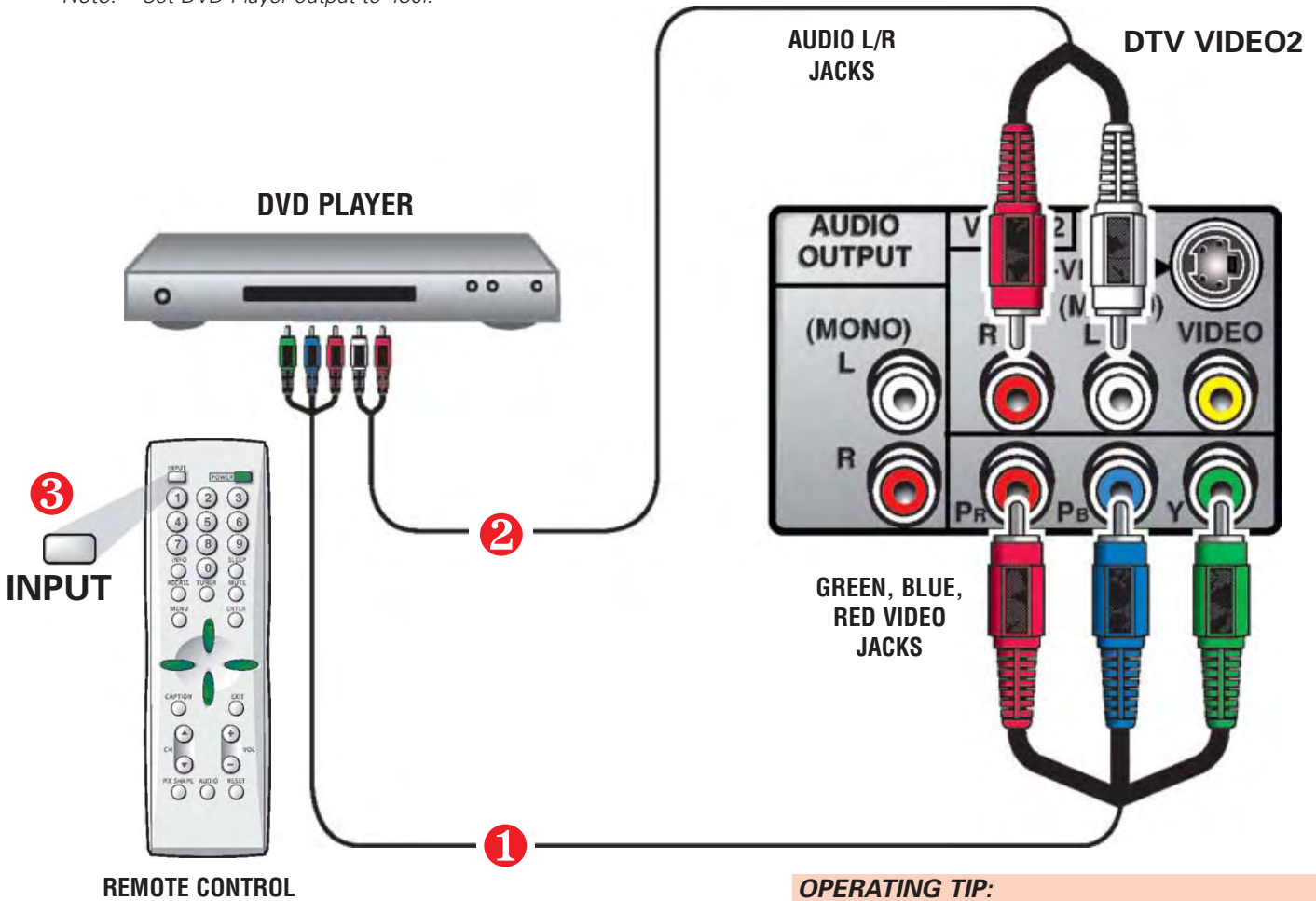
### CONNECTING A DVD PLAYER

- 1 Connect a Component Cable to the VIDEO2 Green, Blue, and Red video jacks.
- 2 Connect an Audio Cable to the matching VIDEO2 White and Red audio jacks.

Note: Set DVD Player output to 480i.

- 3 Press **INPUT** to select *Video 2* to view the program.

Note: Audio/Video Input (VIDEO2) and Component inputs share the same audio (R/L) input jacks..



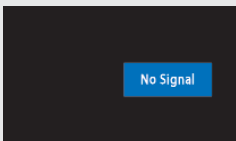
#### **OPERATING TIP:**

Refer to the owner's manuals and user's guides that came with your external equipment for connection options.

### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### **SYMPTOM**

"No Signal" will appear randomly on the screen when no signal is detected at the video jacks.



#### **CHECK THESE CONDITIONS**

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

#### **TRY THESE SOLUTIONS**

- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

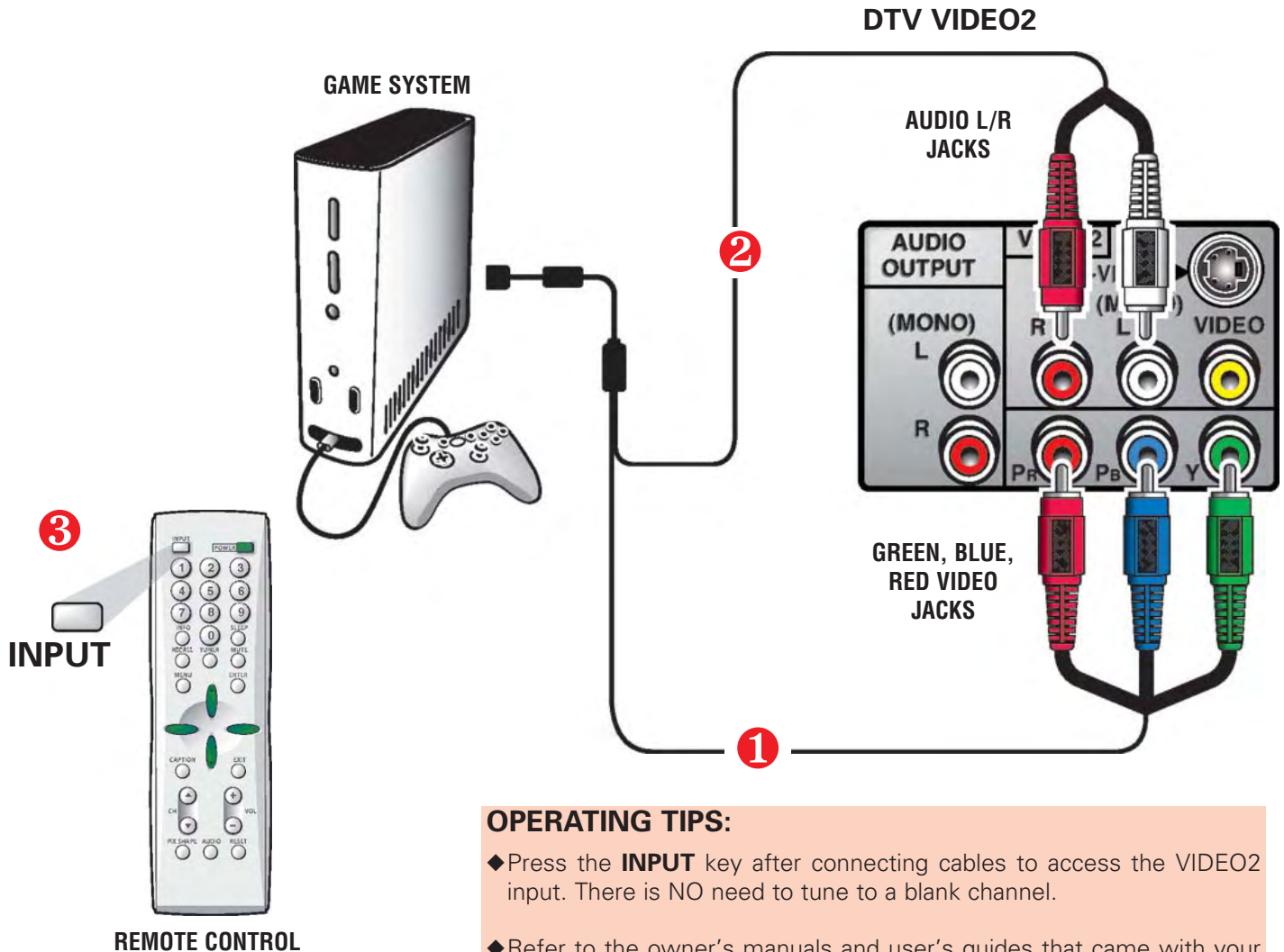
*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*



## VIDEO2 COMPONENT JACKS: *Connection Option 3*

### CONNECTING A GAME SYSTEM

- 1 Connect a Component Cable to the VIDEO2 Green, Blue, and Red video jacks.
- 2 Connect an Audio Cable to the VIDEO2 White and Red audio jacks.
- 3 Press **INPUT** to select *Video 2* to view the program.



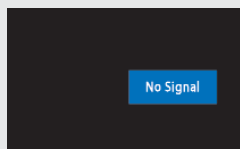
#### OPERATING TIPS:

- ◆ Press the **INPUT** key after connecting cables to access the VIDEO2 input. There is NO need to tune to a blank channel.
- ◆ Refer to the owner's manuals and user's guides that came with your external equipment for connection options.

### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

"No Signal" will appear randomly on the screen when no signal is detected at the video jack.



#### CHECK THESE CONDITIONS

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

#### TRY THESE SOLUTIONS

- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

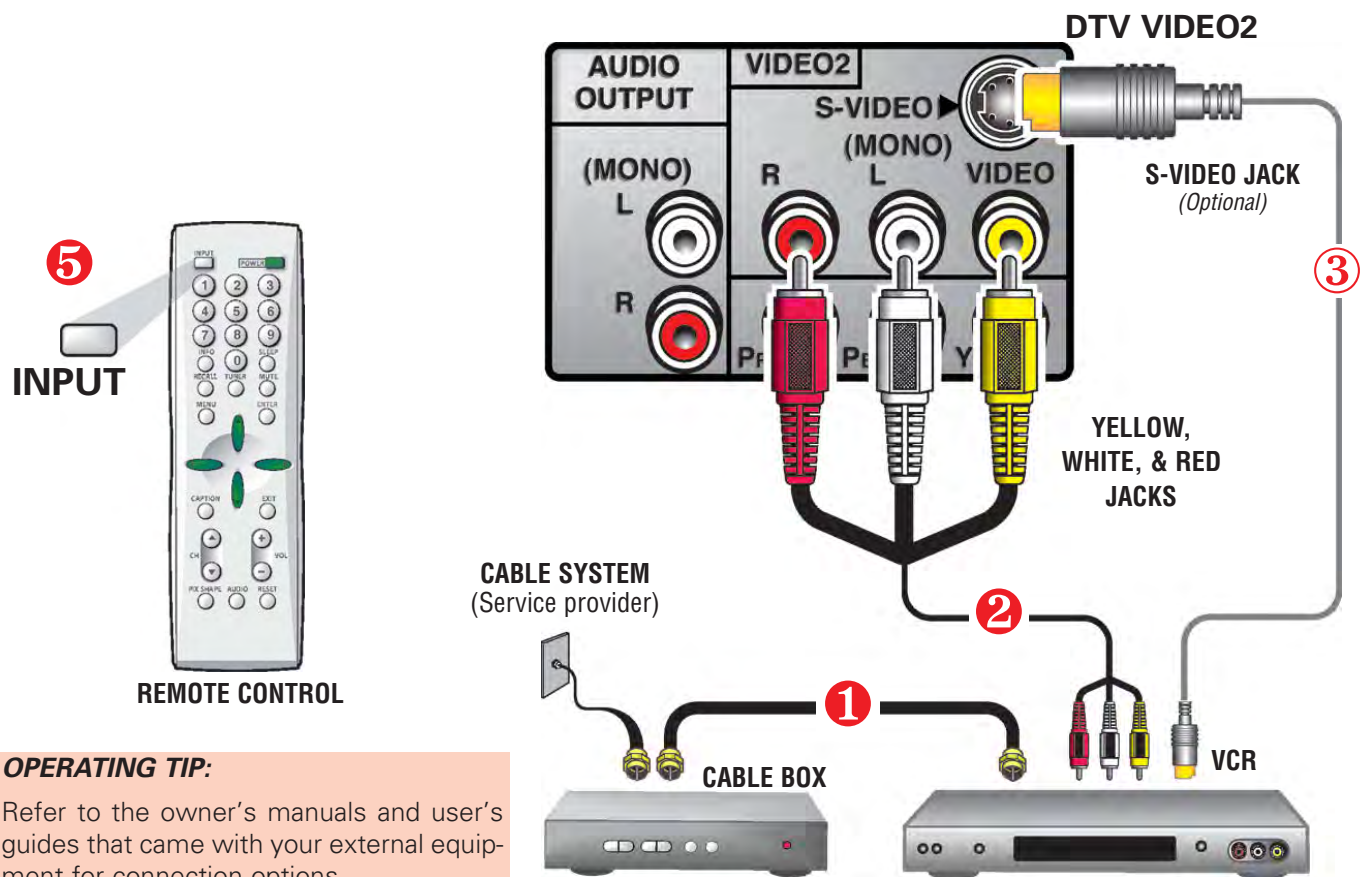
*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

## VIDEO2 COMPOSITE (ANALOG) JACKS: *Connection Option 1*

### CONNECTING ANALOG CABLE, CABLE BOX, VCR, AND AN ANTENNA TO THE DTV

- 1 Connect Analog Cable Box "Antenna Out" to the VCR "Antenna In."
- 2 Connect the VCR AV out jacks to VIDEO1 Yellow, White, and Red jacks.
- 3 *OPTIONAL FOR A SUPER VHS VCR*  
Connect VCR to the DTV S-Video In Jack. Disconnect the VIDEO2 yellow connector
- 4 Tune VCR to channel 3 or 4 to match your Cable Box.
- 5 Press **INPUT** to select *Video 2* to watch Analog Cable channels OR to TV channels to watch Antenna channels.
- 6 Select Cable channels with the cable box remote control. Select Antenna channels with the DTV remote control.

**IMPORTANT FACTS:** Composite jacks offer only 480i (SDTV) resolution.



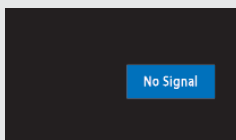
#### OPERATING TIP:

Refer to the owner's manuals and user's guides that came with your external equipment for connection options.

### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

"No Signal" will appear randomly on the screen when no signal is detected at the video jack.



#### CHECK THESE CONDITIONS

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

#### TRY THESE SOLUTIONS

- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

*If you continue to experience problems, please call toll free 1-800-877-5032. We can Help!*

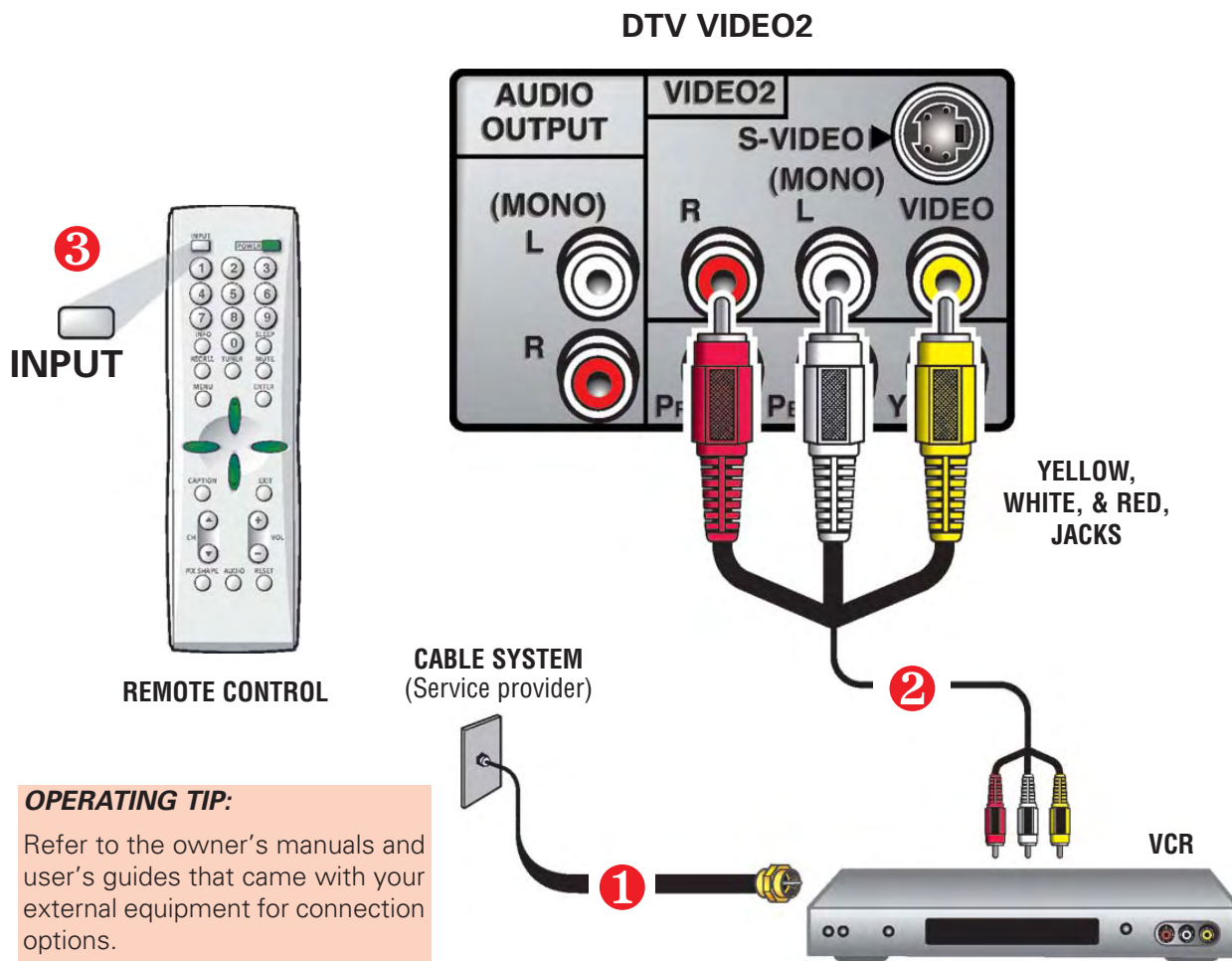
## VIDEO2 COMPOSITE (ANALOG) JACKS: *Connection Option 2*

### CONNECTING ANALOG CABLE, VCR, AND AN ANTENNA TO THE DTV

- 1 Connect Analog Cable system to the VCR "Antenna In."
- 2 Connect the VCR AV out jacks to VIDEO2 Yellow, White, and Red jacks.
- 3 Press **INPUT** to select *Video 2* to watch Analog Cable channels OR to TV channels to watch Antenna channels.
- 4 Select channels with the VCR's remote control.  
Select Antenna channels with the DTV remote control.

#### IMPORTANT FACTS:

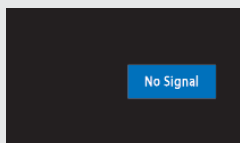
*Composite jacks offer only 480i (SDTV) resolution.*



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

"No Signal" will appear randomly on the screen when no signal is detected at the video jack.



#### CHECK THESE CONDITIONS

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

#### TRY THESE SOLUTIONS

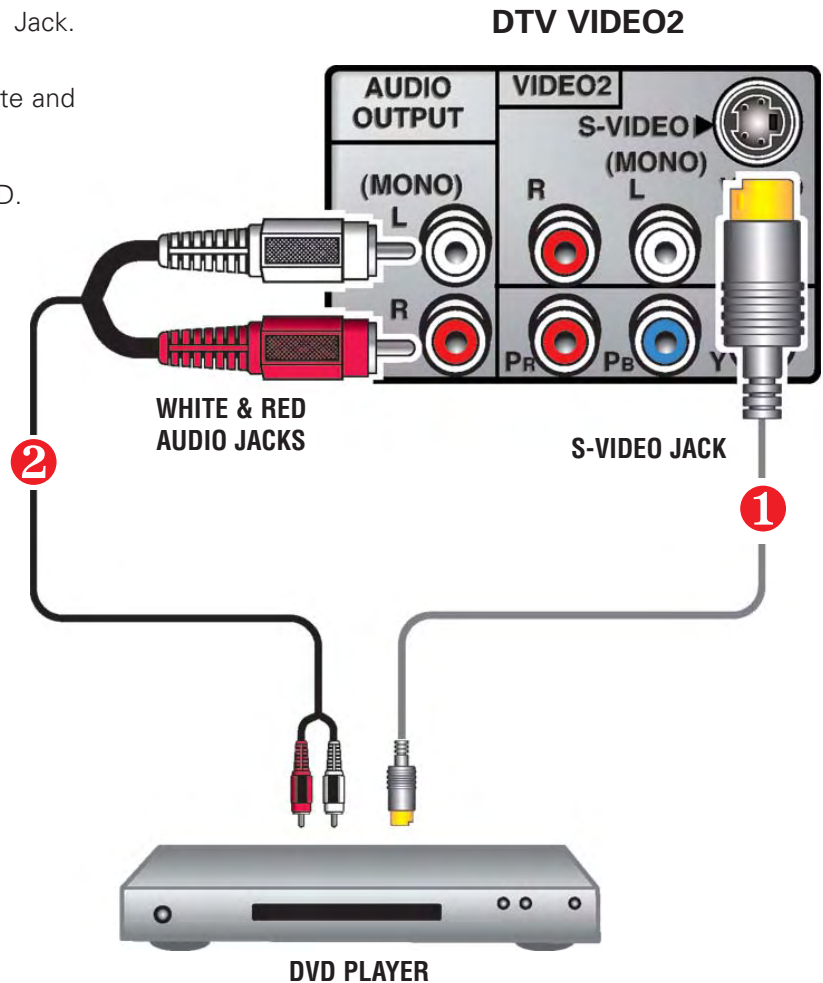
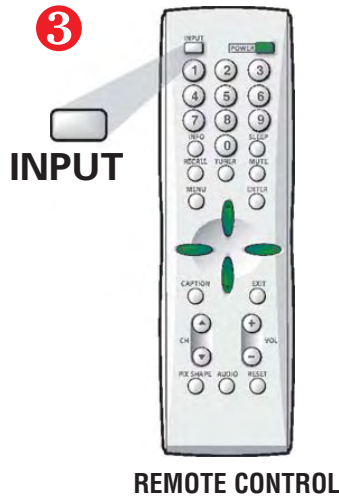
- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

*If you continue to experience problems, please call toll free 1-800-877-5032. We can Help!*

## VIDEO2 COMPOSITE (ANALOG) JACKS: *Connection Option 3*

### CONNECTING A DVD PLAYER TO THE DTV

- 1 Connect DVD Player to the TV S-Video In Jack.
- 2 Connect an Audio cable to the VIDEO2 White and Red AV jacks.
- 3 Press **INPUT** to select *Video2* to view a DVD.



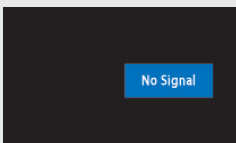
#### OPERATING TIP:

Refer to the owner's manuals and user's guides that came with your external equipment for connection options.

## HELPFUL HINTS (PROBLEMS/SOLUTIONS)

### SYMPTOM

"No Signal" will appear randomly on the screen when no signal is detected at the S-Video jack.



### CHECK THESE CONDITIONS

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

### TRY THESE SOLUTIONS

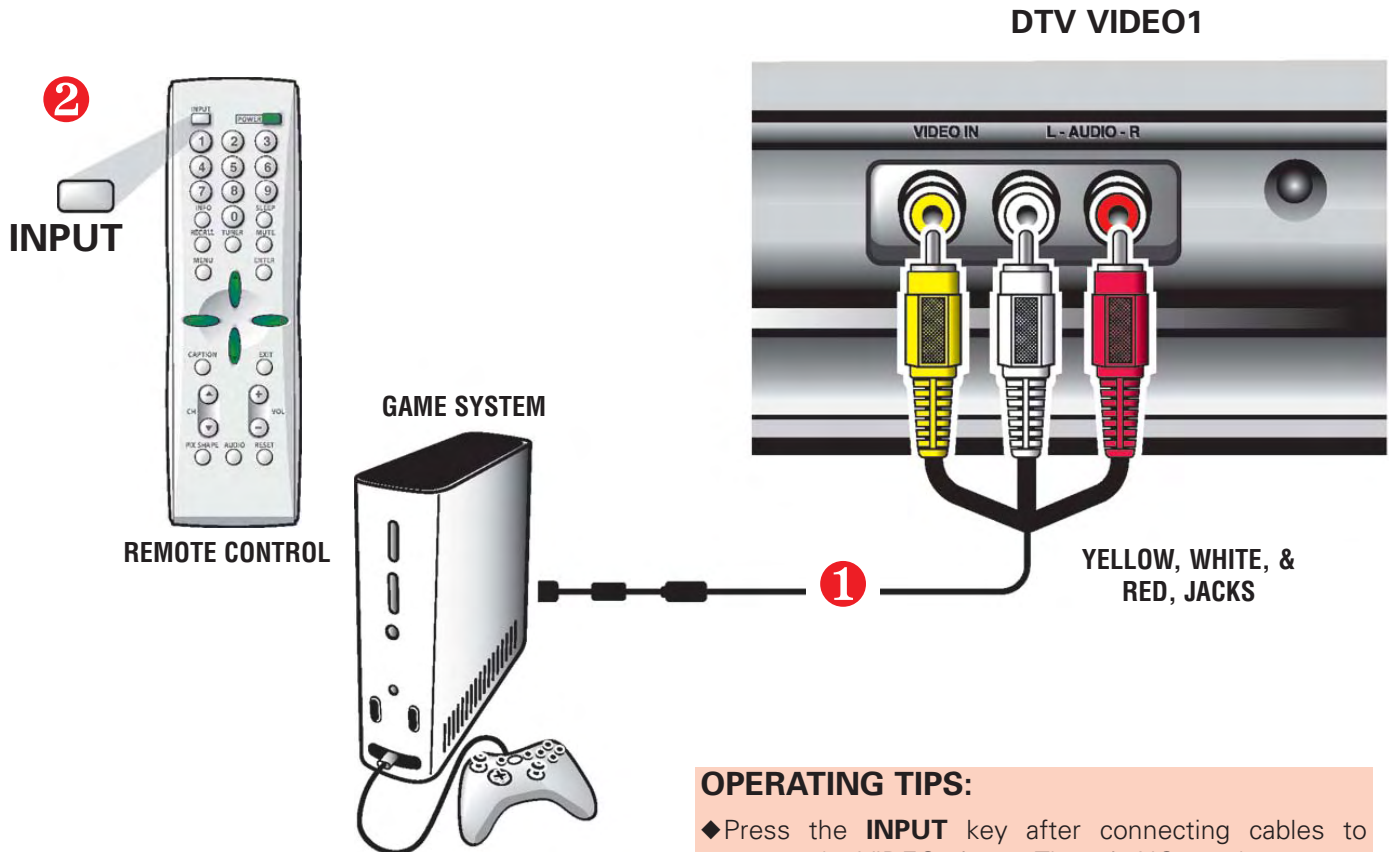
- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

## VIDEO1 COMPOSITE FRONT JACKS: *Connection Option 1*

### CONNECTING A GAME SYSTEM

- 1 Connect the Game AV out jacks to VIDEO1 Yellow, White, and Red jacks.
- 2 Press **INPUT** to select *Video 1* to view the program.



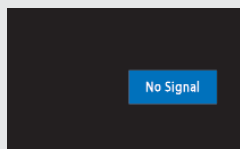
#### OPERATING TIPS:

- ◆ Press the **INPUT** key after connecting cables to access the VIDEO1 input. There is NO need to tune to a blank channel.
- ◆ Refer to the owner's manuals and user's guides that came with your external equipment for connection options.

### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

"No Signal" will appear randomly on the screen when no signal is detected at the video jack.



#### CHECK THESE CONDITIONS

- Check Audio/Video connections.
- Check external equipment connections.
- Check external equipment setting.

#### TRY THESE SOLUTIONS

- Press the **INPUT** key.
- Switch on external equipment.
- Set external equipment output connections to match input connections.

*If you continue to experience problems, please call toll free  
**1-800-877-5032. We can Help!***

## DTV AUDIO OUT JACKS (DIGITAL & ANALOG)

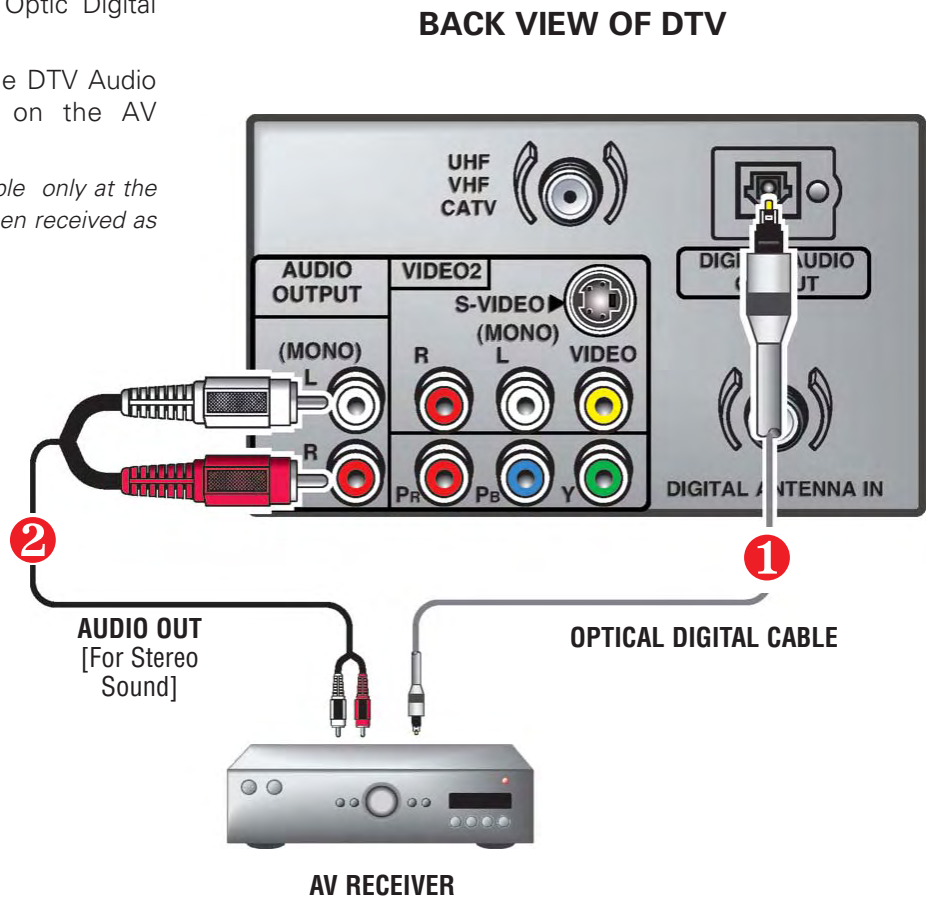
### CONNECTING AN AV RECEIVER TO THE DTV

- 1 Connect a Digital Audio cable from the DTV Digital Audio Output jack to a Optic Digital Audio In jack on an AV Receiver.
- 2 Connect an Audio cable from the DTV Audio Out jacks to Audio In jacks on the AV Receiver.

Note: *Dolby® Digital 5.1 audio is available only at the Digital Audio Output and only when received as part of a Digital Antenna signal.*

#### OPERATING TIP:

Refer to the owner's manual that came with your external equipment for connection options.



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

No Sound or Poor Sound

#### CHECK THESE CONDITIONS

- Check external equipment connections.

#### TRY THESE SOLUTIONS

- Switch on external equipment.

*If you continue to experience problems, please call toll free  
**1-800-877-5032. We can Help!***

## DTV AUDIO OUT JACKS (ANALOG)

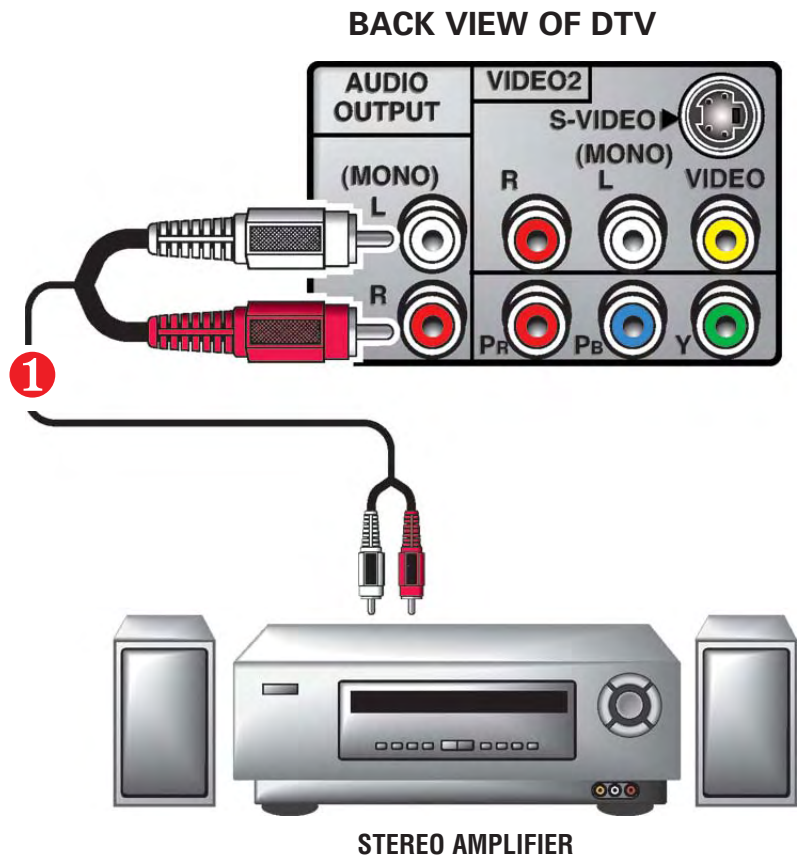
### CONNECTING A STEREO AMPLIFIER TO THE DTV

- 1 Connect a Stereo Amplifier to the TV Audio Out jacks as shown.

Note: **Do not** connect external speakers directly to the DTV.

#### OPERATING TIP:

Refer to the owner's manual that came with your external equipment for connection options.



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

No Sound or Poor Sound

#### CHECK THESE CONDITIONS

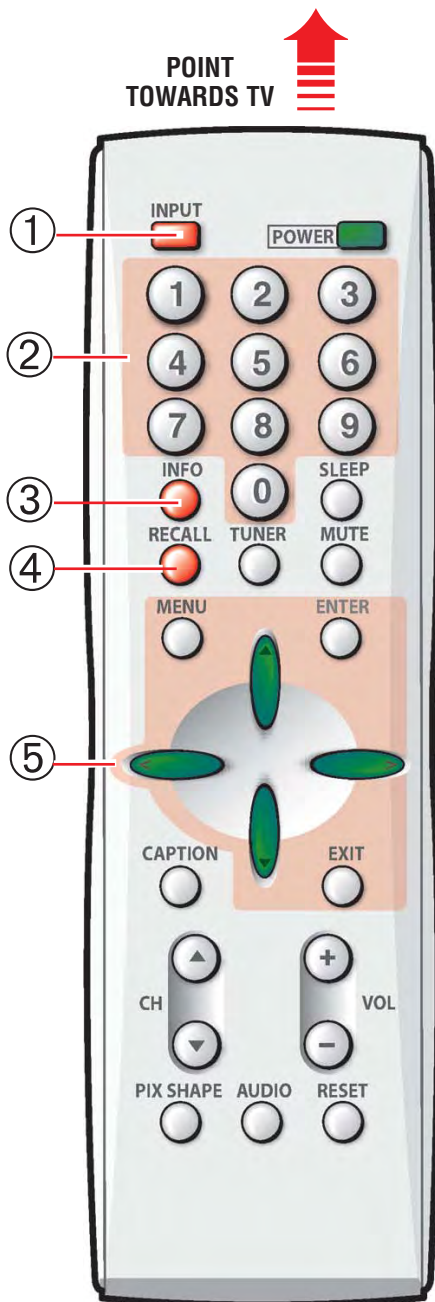
- Check external equipment connections.

#### TRY THESE SOLUTIONS

- Switch on external equipment.

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

# REMOTE CONTROL OPERATION



① **Input Key**—Press to select the program source to watch: Analog Channels, Digital Channels, Video 1, Video 2, Component2, or Analog Channels..

② **Number Keys**—Press two keys to select a channel.  
*Example:* Press **0** then **6** to select channel 6.

**For Analog Cable channels above 100, press and hold the 1 key until C1-- appears, then press the other two numbers.**

③ **Info Key**—Press to display the Digital and Analog Full Banner information. The banner contains the following: program title, station ID, program rating, signal strength, channel number, tuner ID, and audio information.

Digital	07-1	KATTV-HD	TV-PG
Good Morning America			II
Dolby D: English			

**DIGITAL INFO BANNER**

Analog	21	PBS	TV-Y
Stereo			

**ANALOG INFO BANNER**

④ **Recall Key**—Press to switch between the last two channels selected. The Recall key cannot toggle between a Digital channel and an Analog channel.

⑤ **Menu Navigational Keys:**

**Menu**—Press to display on-screen menu.

**Cursor ▲ (up) ▼ (down) keys**—Press these keys to move the cursor up and down within the menu.

**Cursor < (left) > (right) keys**—Press these keys to move the cursor left and right within the menu.

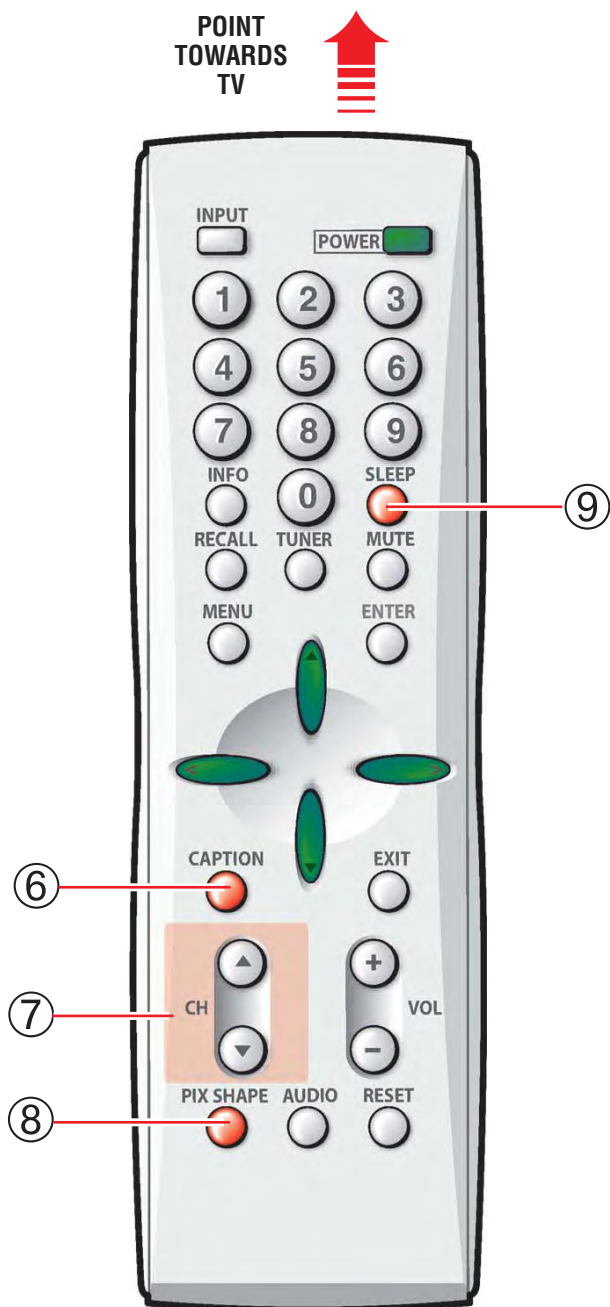
**Enter Key**—Press to select an option from the menu system, when required.

**Exit Key**—Press to exit from the menu system.

**(CONTINUED ON NEXT PAGE.)**



## REMOTE CONTROL OPERATION



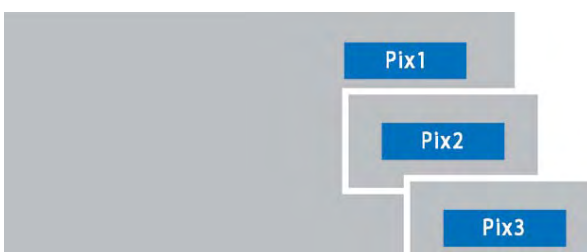
- ⑥ **Caption Key**—Captioning is text information transmitted along with the picture and sound so it can be displayed on the TV screen.

Press **CAPTION** to select mode options: Digital CC1 ~ Digital CC6, or Analog CC1 ~ CC4, OFF, or QuikCap. (QuikCap switches captions on and off with the Mute function.) Digital Captions can be changed using the menu settings.

- ⑦ **Channel Scanning (CH ▲▼) Keys**—Press to scan through the channels in memory.

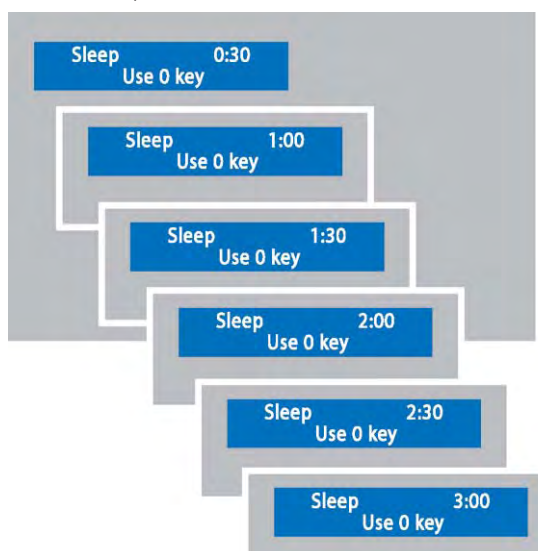
- ⑧ **PIX Shape Key**—Use to change the video display format. Available options depend on signal received and the broadcast's aspect ratio.

*Note:* If you cannot display picture on a full screen. Press the **PIX Shape key** to change setting.



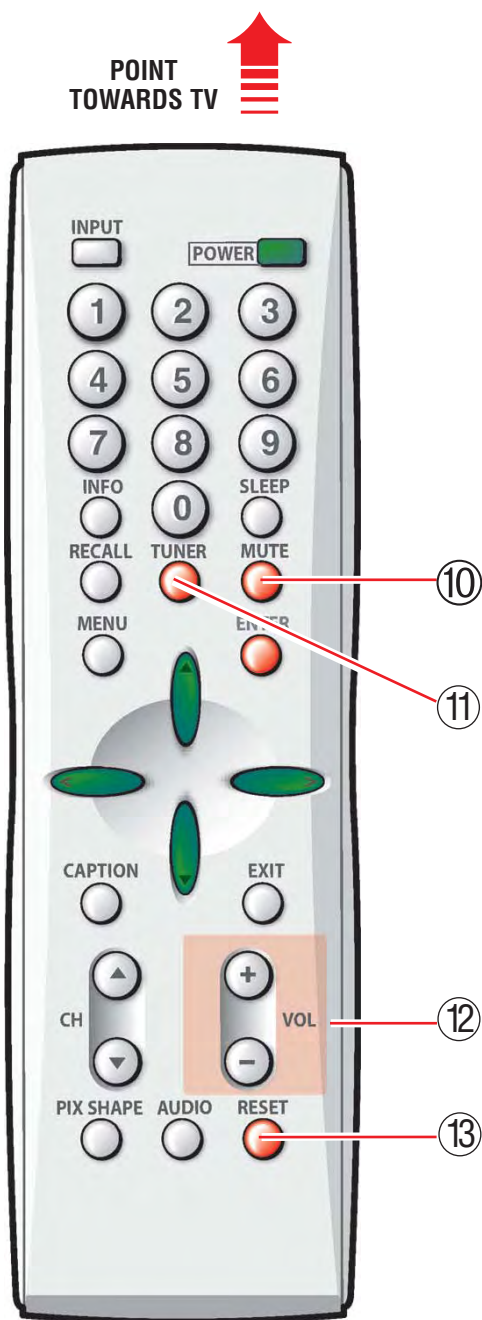
- ⑨ **Sleep Key**—Press this key then the "0" key to set the Sleep Off Timer. Time can be set in 30-minute increments up to 3 hours.

*Note:* The Sleep Timer cancels when the TV is turned off or if a power failure occurs.



(CONTINUED ON NEXT PAGE.)

## REMOTE CONTROL OPERATION (Continued)



⑩ **Mute Key**—Press once to mute the sound. Press again to restore the sound.

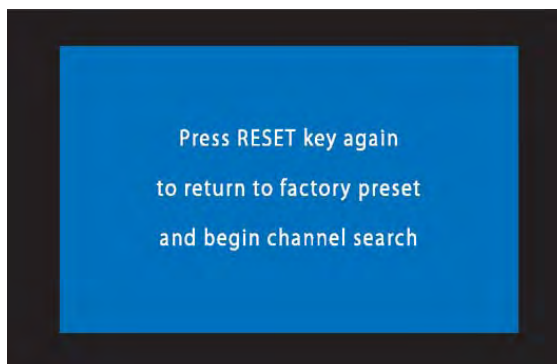
⑪ **Tuner Key**—Use this key to toggle from one tuning system to another, digital channels and analog channels.

*NOTE: The **TUNER** key is inactive when an external input is selected (Video1, Video2, or Component2).*

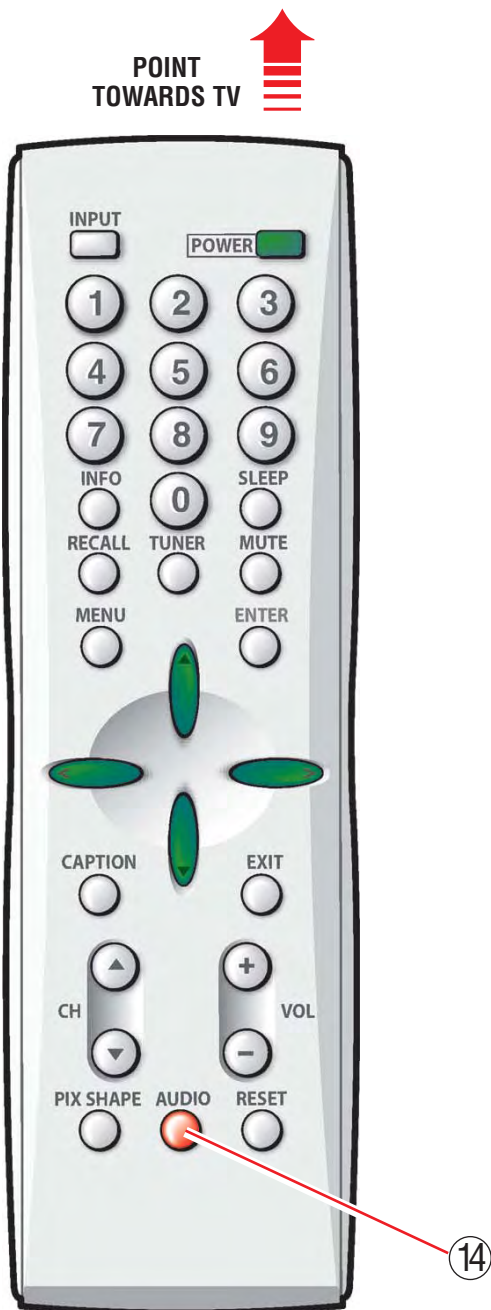
⑫ **Volume (VOL - +) Keys**—Press the - + keys to adjust volume. The screen displays a left or right red arrow that blinks as many times as you press the **Vol - +** keys.

⑬ **Reset Key**—Press this key twice to restore factory settings. The TV will automatically start Channel Search and clear all customized settings.

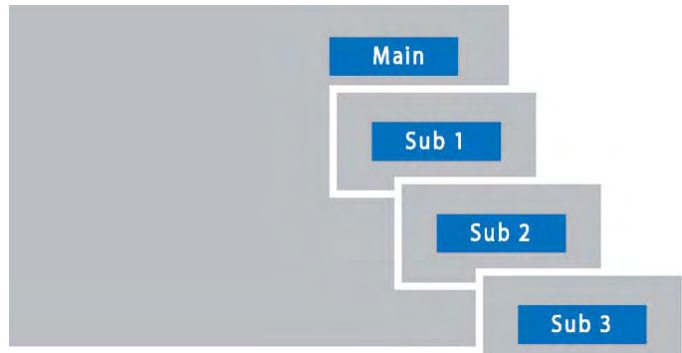
*Note: Channel scan memory database list of digital and analog channels will be replaced. If desired, personal settings can be made again using the menu options.*



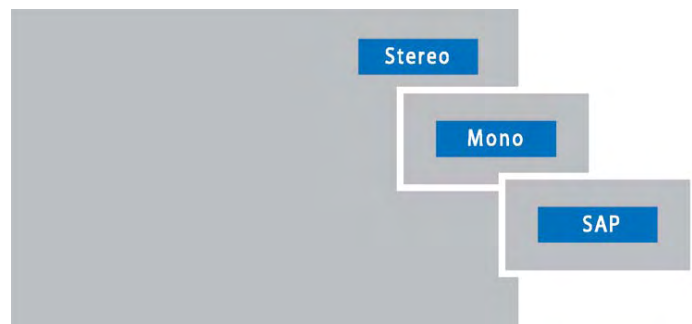
## REMOTE CONTROL OPERATION (Continued)



- ⑭ **Audio Key**—Press to select the desired audio mode (if available as part of the broadcast signal).



DIGITAL AUDIO MODE SELECTIONS



ANALOG AUDIO MODE SELECTIONS

## HELPFUL HINTS (PROBLEMS/SOLUTIONS)

### SYMPTOM

Remote Control will NOT operate the TV.

### CHECK THESE CONDITIONS

- Check batteries.
- Check if TV is plugged in

### TRY THESE SOLUTIONS

- Replace batteries.
- Aim remote control at front of TV.

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

# DTV ADJUSTMENT AND SETUP

## HOW TO OPERATE THE MENU

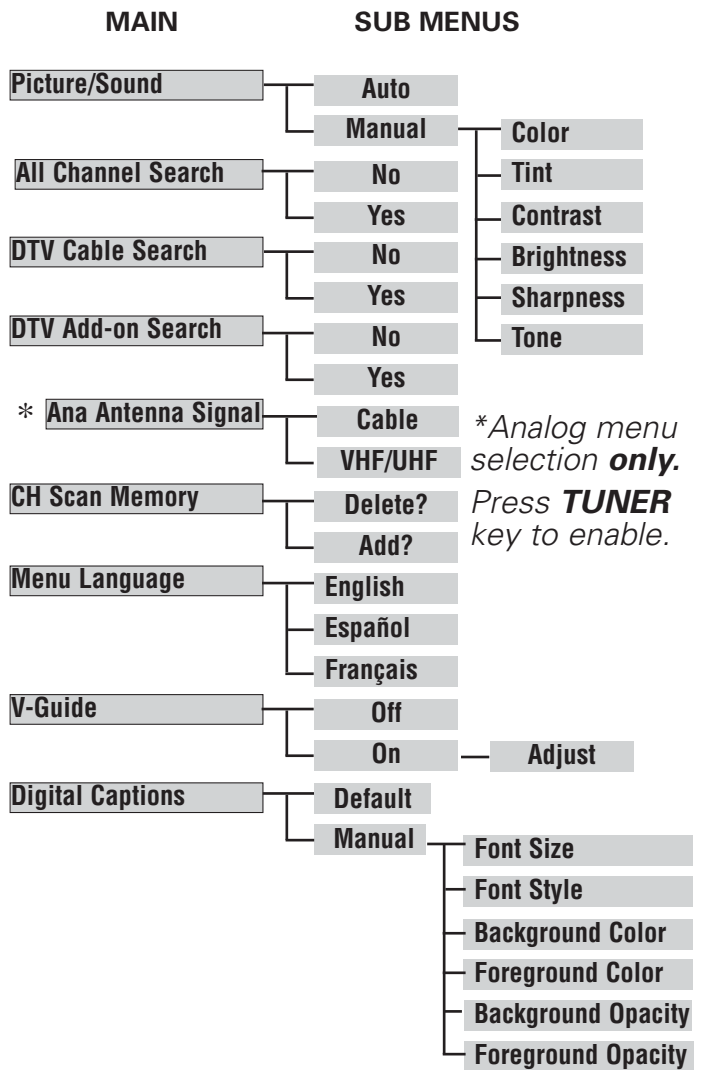
- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight menu item.
- 3 Use the **CURSOR < >** keys to select or adjust menu item.
- 4 Press **ENTER** to activate setting, if needed.
- 5 When you have finished making adjustments, press the **EXIT** key to return to normal TV viewing.

*Note: For menu items that have sub menus, follow on-screen instructions to select and make adjustments.*

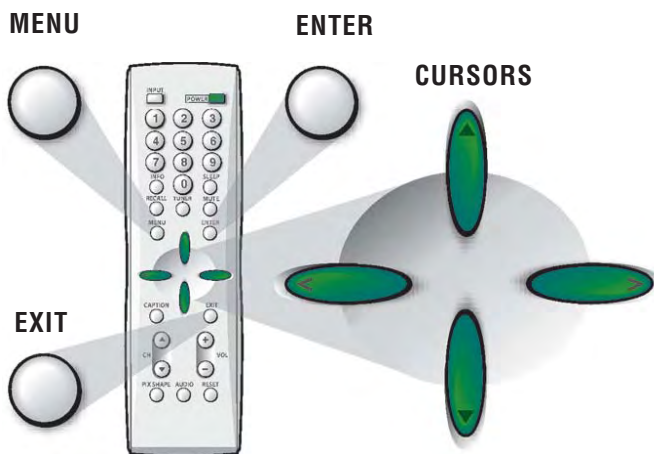
### OPERATING TIPS:

- Some Menu options are specific to Digital or Analog signals and will vary accordingly.
- Also, some options are not available in combination. Unavailable options will appear "grayed-out" in the menu. For example, Ana Antenna Signal is not available when tuned to a Digital Channel.

## MENU NAVIGATION MAP (Composite view)



### REMOTE CONTROL NAVIGATION KEYS



### MENU options:

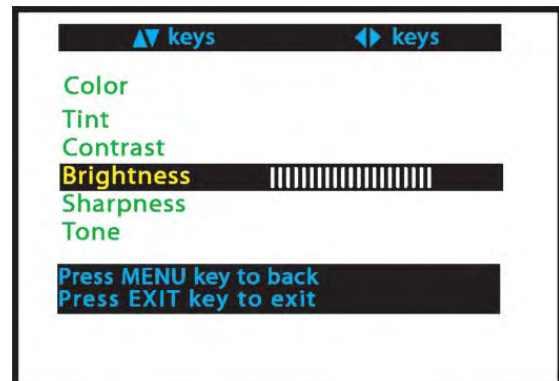
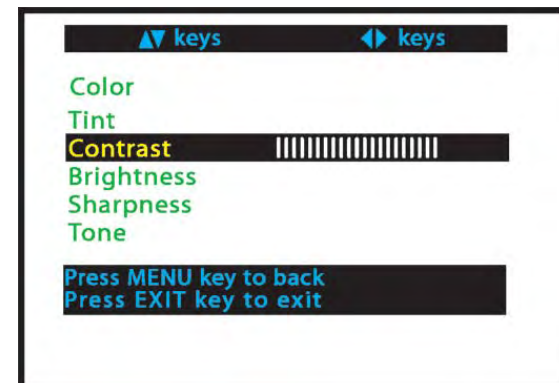
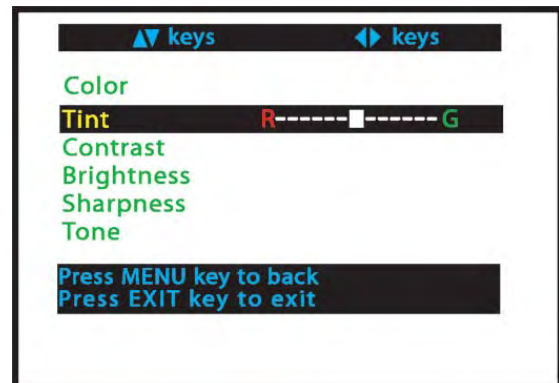
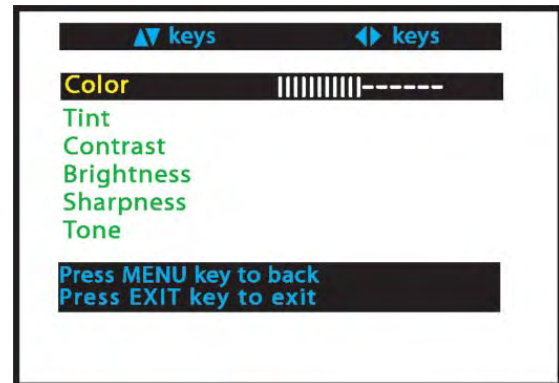
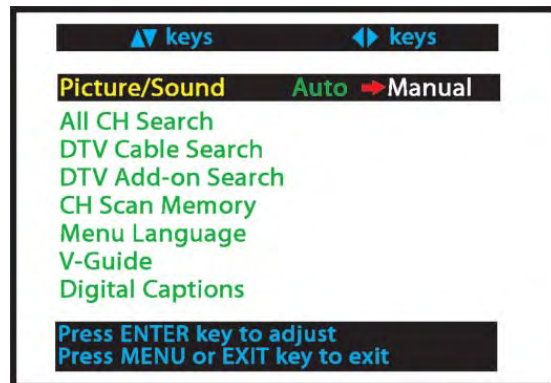
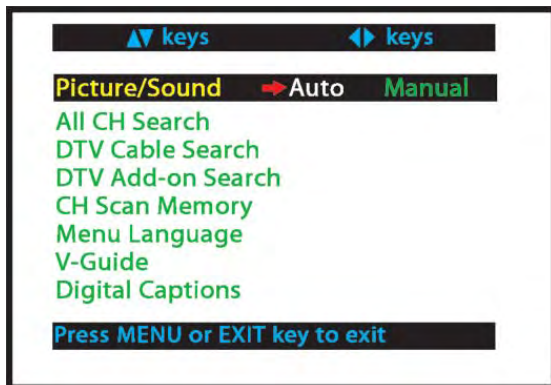
Along with the on-screen instructions, each menu feature is explained in detail on the following pages.

## MENU OPTION—*PICTURE/SOUND*

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR** ▲▼ keys to highlight *Picture/Sound*.
- 3 Use the **CURSOR** ▲▼ keys to highlight *Auto* (factory preset settings) or *Manual*. Press **ENTER**.

### MANUAL ADJUSTMENTS

- 4 Use the **CURSOR** ▲▼ keys to select the option you want to adjust.
- 5 Then use the **CURSOR** < > keys to make an adjustment.

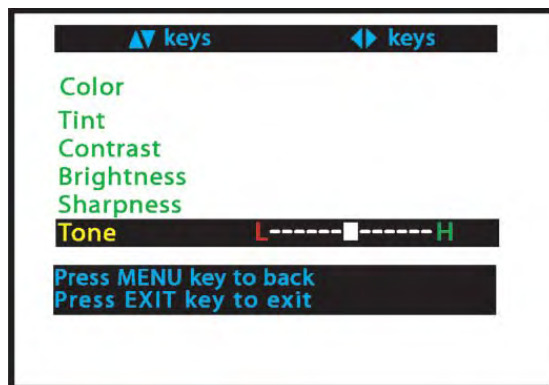
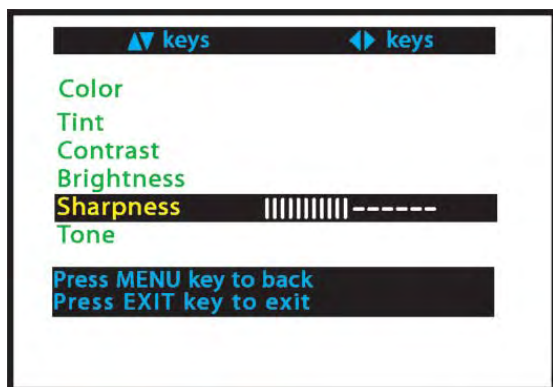


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## MENU OPTION—PICTURE/SOUND (Continued)

### MANUAL ADJUSTMENTS (CONTINUED)

- 4** Use the **CURSOR ▲▼** keys to select the option you want to adjust.
- 5** Then use the **CURSOR < >** keys to make an adjustment.



## HELPFUL HINTS (PROBLEMS/SOLUTIONS)

SYMPTOM	CHECK THESE CONDITIONS	TRY THESE SOLUTIONS
No picture, sound (Digital Picture)	<ul style="list-style-type: none"> <li>● Weak Signal.</li> <li>● Check antenna/external connections.</li> <li>● May be station trouble, NO signal broadcast.</li> <li>● MUTE function may be on.</li> </ul>	<ul style="list-style-type: none"> <li>● Adjust antenna. Install booster.</li> <li>● Press the <b>RESET</b> key to restart channel search.</li> <li>● Try a different channel.</li> <li>● Adjust Volume.</li> </ul>
Poor Picture/Sound (watching Analog)	<ul style="list-style-type: none"> <li>● Check if program is in color.</li> <li>● Check antenna/external connections.</li> <li>● Color or Tint misadjusted.</li> <li>● May be station trouble.</li> <li>● May be MUTE function is on.</li> </ul>	<ul style="list-style-type: none"> <li>● Try a different channel.</li> <li>● Adjust antenna.</li> <li>● Press the <b>RESET</b> key to restart channel search.</li> </ul>

*If you continue to experience problems, please call toll free  
**1-800-877-5032. We can Help!***

## MENU OPTION—ALL CHANNEL SEARCH

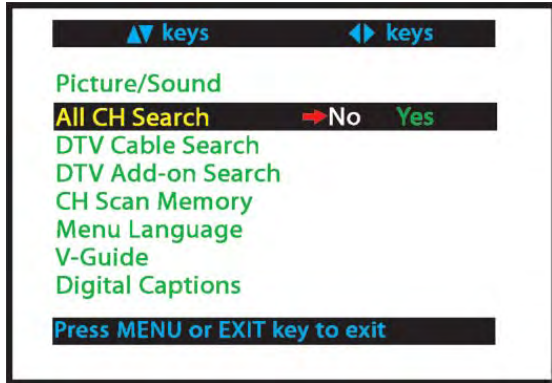
The All Channel Search will search for off-air digital and analog channels, and analog cable channels. The DTV can receive cable or off-air channels, but not at the same time.

**NOTES:** To receive DTV Cable channels, if available, you **must** perform a DTV Cable Search.

To add new digital channels to the existing database, use DTV Add-on Search, see page 33.

**1** Press the **MENU** key to display the Main menu.

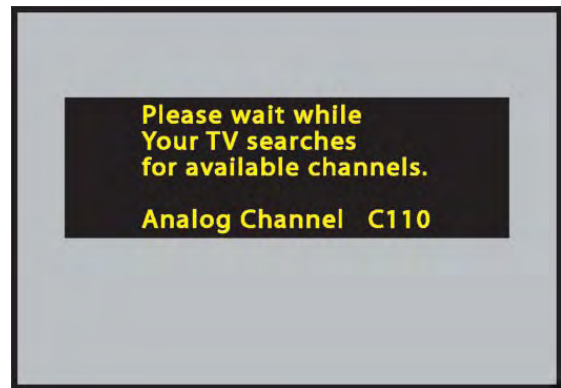
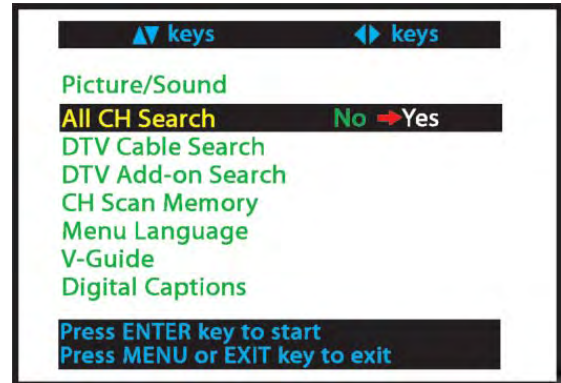
**2** Use the **CURSOR** **▲▼** keys to highlight the *All Channel Search*.



### OPERATING TIPS:

- DTV will select the correct Antenna mode for the type of signal connected automatically.
- If you move the DTV to a new location, press the **RESET** key twice after connecting the signal and turning on the DTV.

**3** Use the **CURSOR** **< >** keys to select Yes. Press **ENTER**.



SEARCHING FOR ANALOG CHANNELS



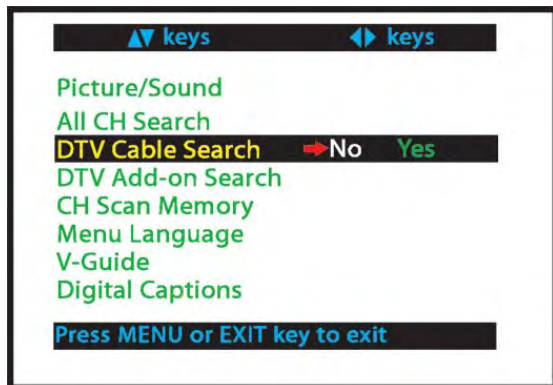
SEARCHING FOR DIGITAL CHANNELS

## MENU OPTION—DTV CABLE SEARCH (Optional)

This DTV can receive unscrambled (ClearQAM) digital cable channels, when available. However, not all cable companies provide ClearQAM digital channels.

Digital Cable Search process will take about 10 minutes, please be patient.

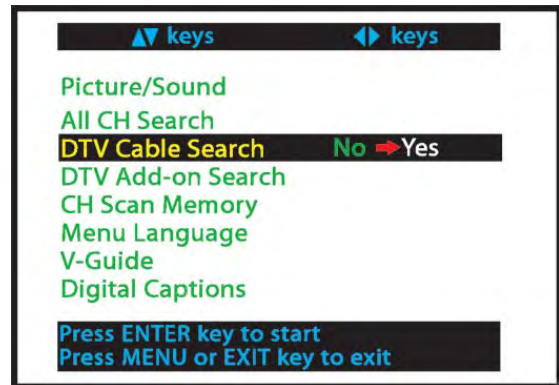
- 1 Connect a Digital Cable signal directly to the DTV Digital Antenna In Terminal.
- 2 Press the **TUNER** key to select the Digital Tuner.
- 3 Press the **MENU** key to display the Main menu.
- 4 Use the **CURSOR** ▲▼ keys to highlight the *DTV Cable Search*.



**IMPORTANT FACTS:** This DTV maintains only one database of digital channels. Therefore, when you search for ClearQAM digital cable channels, the database of antenna digital channels will be deleted. You will be able to receive only those ClearQAM channels your cable company provides.

To restore the antenna digital channel database, reconnect the antenna and use the menu system to perform an All Channel Search.

- 5 Use the **CURSOR** < > keys to select Yes. Press **ENTER**.



**NOTE:** After Channel Search is complete, the DTV will tune to the lowest Digital Cable channel.

## HELPFUL HINTS (PROBLEMS/SOLUTIONS)

### SYMPTOM

Cannot select menu option, DIGITAL CABLE SEARCH.

### CHECK THESE CONDITIONS

- Is the selected Menu item grayed out?
- DTV must be connected to a digital channel.

### TRY THESE SOLUTIONS

- The DTV is in the Analog mode, therefore, try performing another "All Channel Search."

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

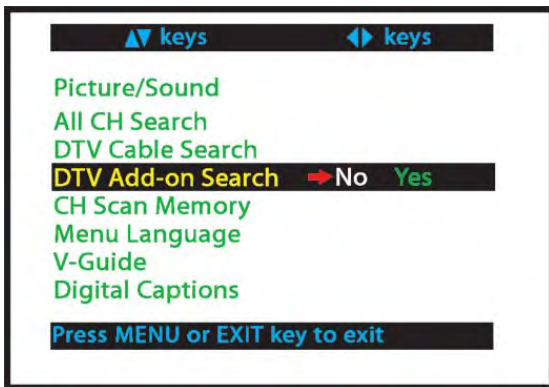


## MENU OPTION—DTV ADD-ON SEARCH

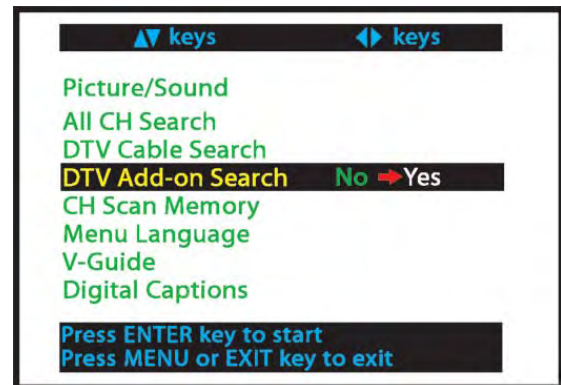
To add new digital channels to the existing antenna channel database, use Digital Add-on Search. Also, use this feature to add channels when broadcast towers are in multiple directions from your location.

For more info go to [www.antennaweb.org](http://www.antennaweb.org) and type in your zip code to obtain specific tower and antenna information. Then adjust your antenna and repeat the Digital Add-on Search.

- 1 Press the **TUNER** key to select the Digital Tuner.
- 2 Press the **MENU** key to display the Main menu.
- 3 Use the **CURSOR** ▲▼ keys to highlight the *DTV Add-on Search*.



- 4 Use the **CURSOR** < > keys to select Yes. Press **ENTER**.



## HELPFUL HINTS (PROBLEMS/SOLUTIONS)

### SYMPTOM

Cannot select menu option, DIGITAL ADD-ON SEARCH.

### CHECK THESE CONDITIONS

- Is the selected Menu item grayed out?
- DTV must be connected to a digital channel.

### TRY THESE SOLUTIONS

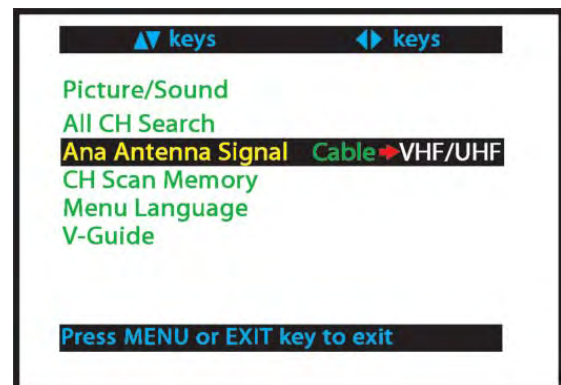
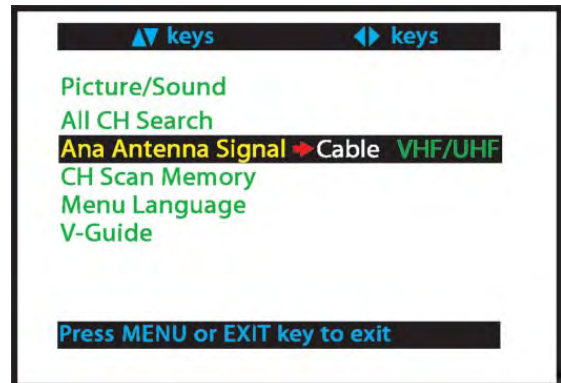
- The DTV is in the Analog mode, therefore, try performing another "All Channel Search."

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

## MENU OPTION—ANA (ANALOG) ANTENNA SIGNAL (Optional)

Use this feature to switch between analog off-air channels and analog cable channels.

- 1 Press the **TUNER** key to select Analog Tuner.
- 2 Press the **MENU** key to display the Main menu.
- 3 Use the **CURSOR** ▲▼ keys to highlight *Ana Antenna Signal*.
- 4 Use the **CURSOR** < > keys to choose *Cable* or *VHF/UHF*.



## HELPFUL HINTS (PROBLEMS/SOLUTIONS)

<u>SYMPTOM</u>	<u>CHECK THESE CONDITIONS</u>	<u>TRY THESE SOLUTIONS</u>
Cannot select menu option, ANALOG ANTENNA SIGNAL.	<ul style="list-style-type: none"> <li>● Is the selected Menu item grayed out?</li> </ul>	<ul style="list-style-type: none"> <li>● Press <b>TUNER</b> Key to select TV Analog Channels.</li> </ul>
NO Cable channels above number 13	<ul style="list-style-type: none"> <li>● Cable Channel Indicator "C" should appear next to channel number.</li> </ul>	<ul style="list-style-type: none"> <li>● Switch Menu option—Analog Antenna Signal selection to CABLE.</li> </ul>
NO UHF; VHF Channels OK.	<ul style="list-style-type: none"> <li>● Cable Channel Indicator <b>C</b> should <b>not</b> appear next to the channel number.</li> </ul>	<ul style="list-style-type: none"> <li>● Switch Menu option—Analog Antenna Signal to VHF/UHF.</li> </ul>

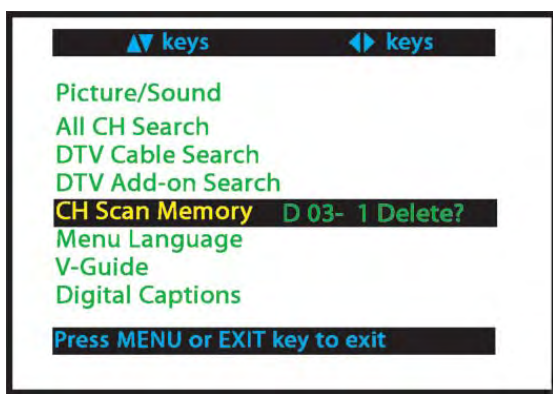
*If you continue to experience problems, please call toll free  
**1-800-877-5032. We can Help!***

## MENU OPTION—CH (CHANNEL) SCAN MEMORY

### DELETING ANALOG OR DIGITAL CHANNELS FROM MEMORY

Channel Scan Memory is a list of active channels that you can scan through using the **Channel Scan CH ▲** (up) **CH ▼** (down) keys. This list can be customized by deleting and/or adding channels.

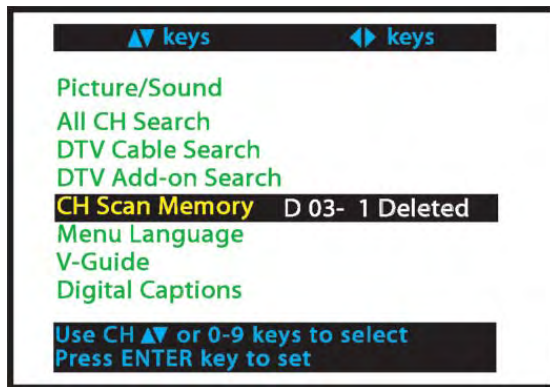
- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight *CH Scan Memory*. Use the **CURSOR >** key to select the channel number area.



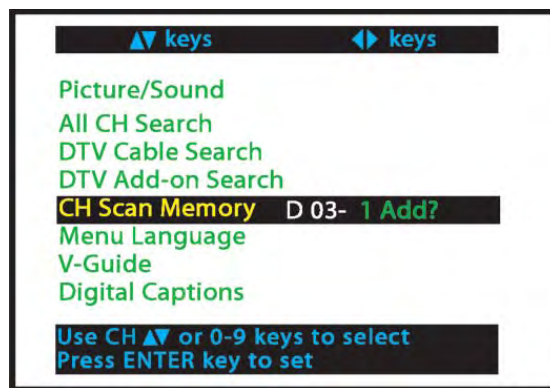
#### OPERATING TIPS:

- When a digital channel is deleted, all of that channel's sub-channels are deleted as well.
- Only previously deleted digital channels can be added back to the Channel Scan Memory.

- 3 Use the **CHANNEL (CH ▲▼)** keys or numerical **0 ~ 9** keys to select desired channel. *HINT:* Press the **TUNER** key to switch between Digital and Analog Channel Scan memories.
- 4 Press the **ENTER** key to delete the channel. The display will change to "deleted."



After 3 seconds the TV screen will display "Add?"



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

Cannot select or scan some channels.

#### CHECK THESE CONDITIONS

- Channels may be removed from memory.
- Check antenna connections.
- NO digital signal being broadcast.
- Weak Signal.
- V-Guide is set to block programming.

#### TRY THESE SOLUTIONS

- Select Channel Scan memory and manually add channels or start an "All Channel Search."
- Turn antenna, install signal booster.
- Set V-Guide to "Off" or press **RESET** key to clear all settings and restart channel search.

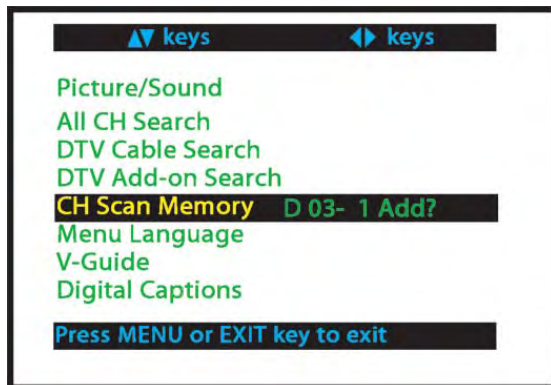
*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

## MENU OPTION—CH (CHANNEL) SCAN MEMORY

### ADDING DIGITAL OR ANALOG CHANNELS TO MEMORY

Channel Scan Memory is a list of active channels that you can scan through using the **Channel Scan CH ▲** (up) **CH ▼** (down) keys. This list can be customized by deleting and/or adding channels.

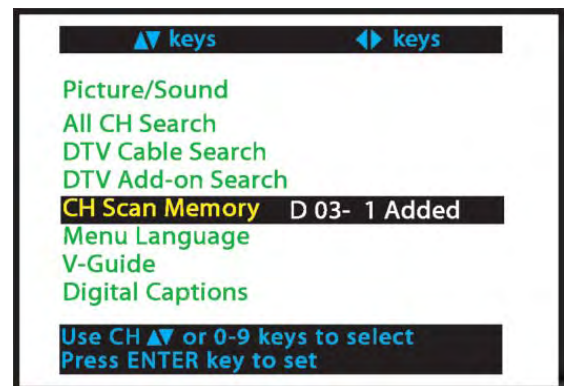
- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight *CH Scan Memory*. Press **ENTER**.



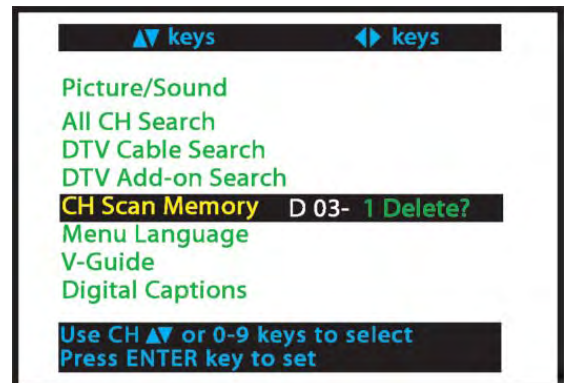
#### OPERATING TIP:

- If one digital sub-channel is added back to the Channel Scan Memory list, all of that channel's sub-channels will be added back.

- 3 Use the numerical **0 ~ 9** keys to select desired channel. "Add?" will appear beside the channel number. *HINT:* Press the **TUNER** key to switch between Digital and Analog Channel Scan memories.
- 4 Press the **ENTER** key to add the channel. The display will change to "added."



After 3 seconds the TV screen will display "Delete?"



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

#### SYMPTOM

Cannot select or scan some channels.

#### CHECK THESE CONDITIONS

- Channels may be removed from memory.
- Check antenna connections.
- NO digital signal being broadcast.
- Weak Signal.
- V-Guide is set to block programming.

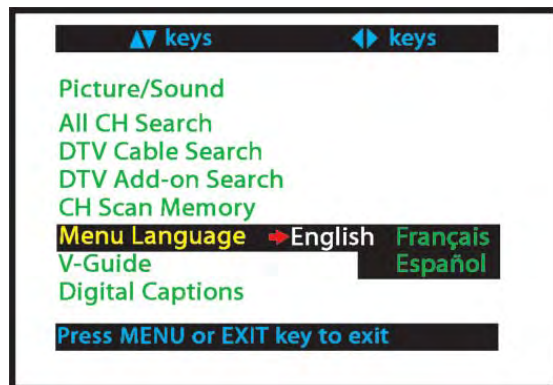
#### TRY THESE SOLUTIONS

- Select Channel Scan memory and manually add channels or start an "All Channel Search."
- Turn antenna, install signal booster.
- Set V-Guide to "Off" or press **RESET** key to clear all settings and restart channel search.

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

## MENU OPTION—MENU LANGUAGE

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight *Menu Language*. Press **ENTER**.
- 3 Use the **CURSOR < >** keys to select *English*, *Español*, or *Français*.



## MENU OPTION—V-GUIDE (PARENTAL CONTROL)

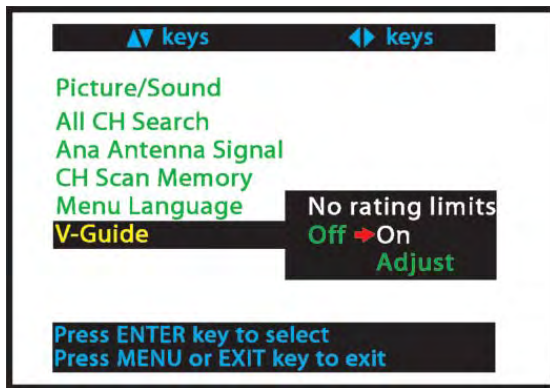
**NOTE: THIS FEATURE IS DESIGNED TO COMPLY WITH THE UNITED STATES OF AMERICA'S FCC V-CHIP REGULATIONS. THEREFORE, IT MAY NOT FUNCTION WITH BROADCASTS THAT ORIGINATE IN OTHER COUNTRIES.**

Use this feature to automatically block programs with content you deem as inappropriate for children to view.

This Sanyo television is equipped with an electronic V-Chip to interpret MPAA (Motion Picture Association of America) and TV Parental Guidelines rating codes. When these codes are detected, the DTV will automatically display or block the program, depending upon choices you make when setting up the V-Guide system.

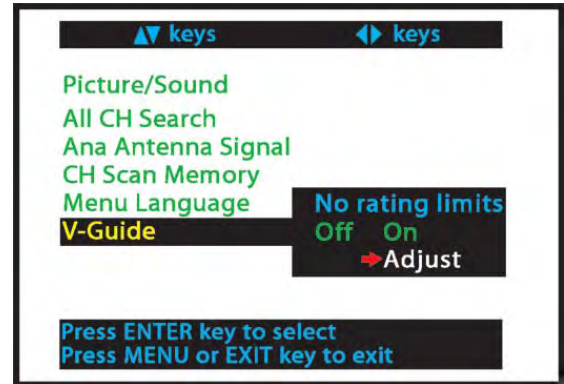
### TO BLOCK MOVIE OR TV PROGRAM

- 1** Press the **MENU** key to display the Main menu.
- 2** Use the **CURSOR** **▲▼** keys to highlight *V-Guide*.
- 3** Use the **CURSOR** **< >** keys to select *ON*. Press **ENTER**.

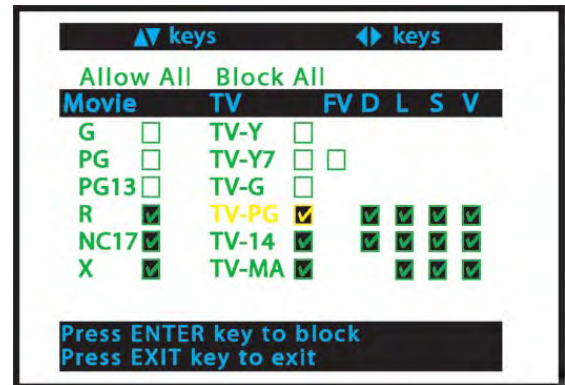


### TO SETUP V-GUIDE RATINGS

- 4** Use the **CURSOR** **>** key to select *Adjust*. Press **ENTER**.



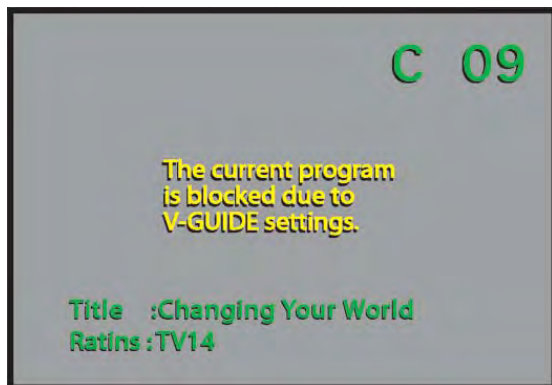
- 5** Press **CURSOR** **▲▼** and **< >** keys to select *MOVIE*, *TV Rating*, or *Content Ratings*.
- 6** Press the **ENTER** key to Block or Unblock selected option. A Check mark (✓) will appear beside the selected (highlighted) rating option indicating it is blocked.



(CONTINUED ON NEXT PAGE.)

## MENU OPTION—V-GUIDE (PARENTAL CONTROL) *Continued*

### ON-SCREEN VIEW OF BLOCKED TV PROGRAM



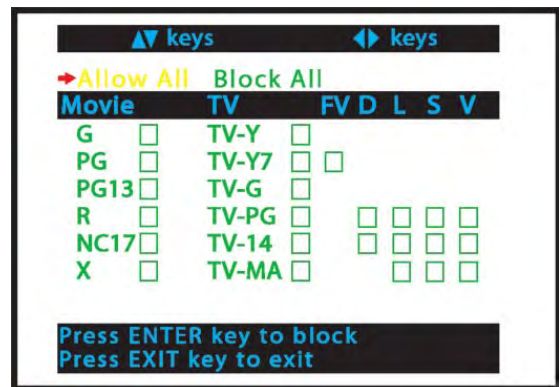
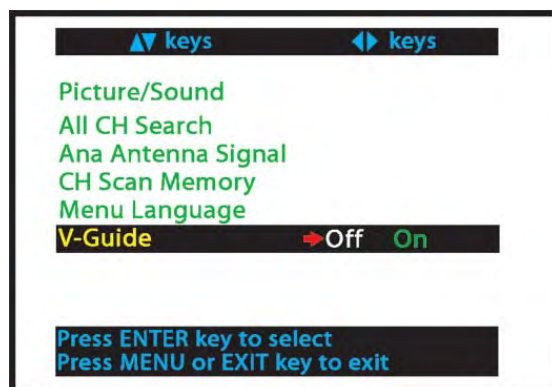
### TO UNBLOCK ALL MOVIE OR ALL TV RATING

- 1** Press the **MENU** key to display the Main menu.
- 2** Use the **CURSOR ▲▼** keys to highlight *V-Guide*.
- 3** Use the **CURSOR >** key to select *ON*.
- 4** Use the **CURSOR >** key to select *Adjust*. Press **ENTER**.
- 5** Highlight the "Allow All" option using the **CURSOR ▲▼** and **< >** keys, if needed. Press **ENTER**.

### TO TEMPORARILY UNBLOCK MOVIE OR TV PROGRAM

- 1** Press the **MENU** key to display the Main menu.
- 2** Use the **CURSOR ▲▼** keys to highlight *V-Guide*.
- 3** Use the **CURSOR < >** keys to select *OFF*. Press **ENTER**.

This will temporarily set V-Guide to *OFF*. When V-Guide is reset to *ON* (follow steps 1~2), the DTV will automatically revert to previously selected block ratings.



#### OPERATING TIPS:

- You can block portions of a DTV rating by choosing one or more of the Content ratings (D, L, S, and V). By blocking just the L and S content ratings of TV-14, for example, TV-14 rated programs with a D and/or V content rating could still be viewed.
- V-Guide limits on programming received via the Analog antenna input, Digital antenna input, Video 2 input, and any 480i signals received through the Component jacks can be controlled by this DTV.
- V-Guide Limits on digital programming received through the component jacks are controlled by the external equipment connected to these jacks. Refer to your external device's owner's manual for instructions on setting V-Guide Limits.

**(CONTINUED ON NEXT PAGE)**

## MENU OPTION—V-GUIDE (PARENTAL CONTROL) *Continued*

### TV RATINGS (AGE/CONTENT-BASED)



**ALL CHILDREN**—Program is designed to be appropriate for children ages 2-6.



**DIRECTED TO OLDER CHILDREN**—Program is designed for children 7 and above. Material may include mild fantasy violence (FV) or comedic violence.



**GENERAL AUDIENCE**—Program suitable for all ages. Contain little or no violence, no strong language or sexual dialogue or situations.



**PARENTAL GUIDANCE SUGGESTED**—Program contains material that may be unsuitable for younger children. Material contains one or more for the following: moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).



**PARENTS STRONGLY CAUTIONED**—Some material is unsuitable for children under 14 years of age. Parents are strongly urged to use caution against letting children under age 14 watch unattended. Material contains intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).



**MATURE AUDIENCE ONLY**—Program is designed to be viewed by adults and therefore may be unsuitable for children under 17 years of age.

### MPAA MOVIE RATINGS (AGE-BASED)

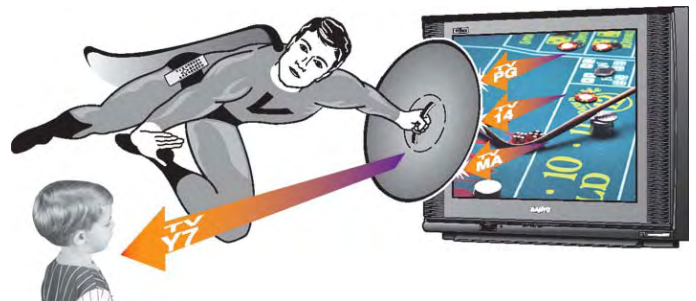
**G GENERAL AUDIENCES**—All ages admitted.

**PG PARENTAL GUIDANCE SUGGESTED**—Some material may not be suitable for children.

**PG-13 PARENTAL GUIDANCE CAUTIONED**—Some material may be inappropriate for children under 13.

**R RESTRICTED**—Under 17 requires accompanying parent or adult guardian

**NC-17 NO ONE 17 AND UNDER ADMITTED**



When codes are being transmitted and received, and V-Guide is set to ON, the V-Chip blocks programming according to the settings you choose.

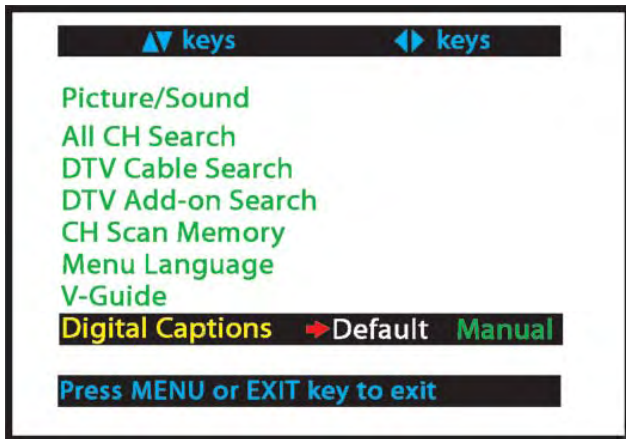


## MENU OPTION—DIGITAL CAPTION

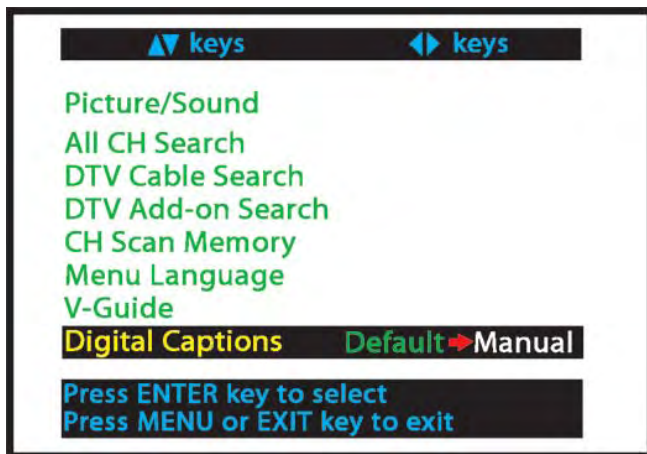
Closed-Captioning is text information transmitted along with the picture and sound. Turning Captioning ON causes the DTV to open these captions (digital or analog) and superimpose them on the screen. (Local broadcasters decide which caption signals to transmit.)

The appearance of Digital Captions can be changed using the menu settings as shown.

- 1 Press the **TUNER** key to select the Digital Tuner.
- 2 Press the **MENU** key to display the Main menu.

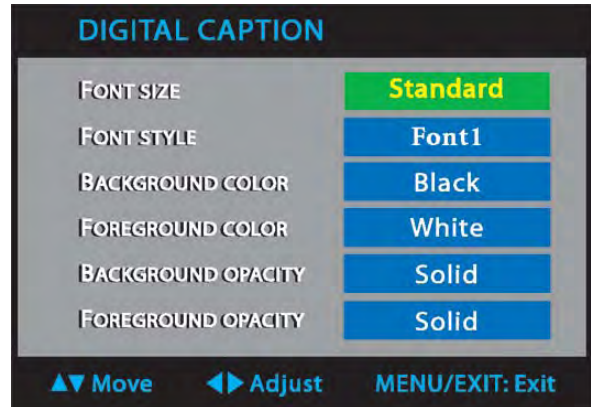


- 3 Use the **CURSOR** ▲▼ keys to highlight *Digital Caption*. Press **ENTER**.
- 4 Use the **CURSOR** < > keys to highlight *Default* (factory settings) or *Manual* option. Press **ENTER**.



## MANUAL ADJUSTMENTS

- 5 Use the **CURSOR** < > keys to select the desired option and setting.

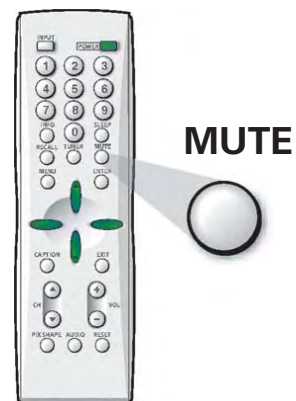
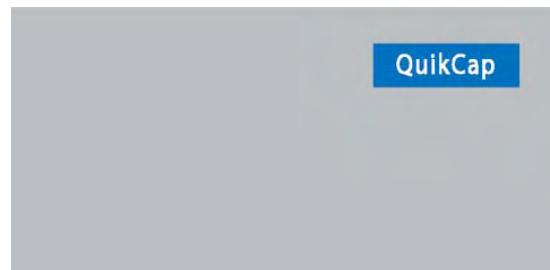


### OPERATING TIPS:

- If Background Opacity is set to transparent, captions may be difficult to see.
- Only true EIA 708B Digital Closed-Captions are affected by all of these settings.

## QUICKCAP OPERATION

QuickCap turns captioning on and off with the Mute function. Press the **MUTE** key on the remote control to block the TV sound; the captions display automatically, if available. Press the **MUTE** key again to restore the sound. Captions will disappear.



(CONTINUED ON NEXT PAGE)

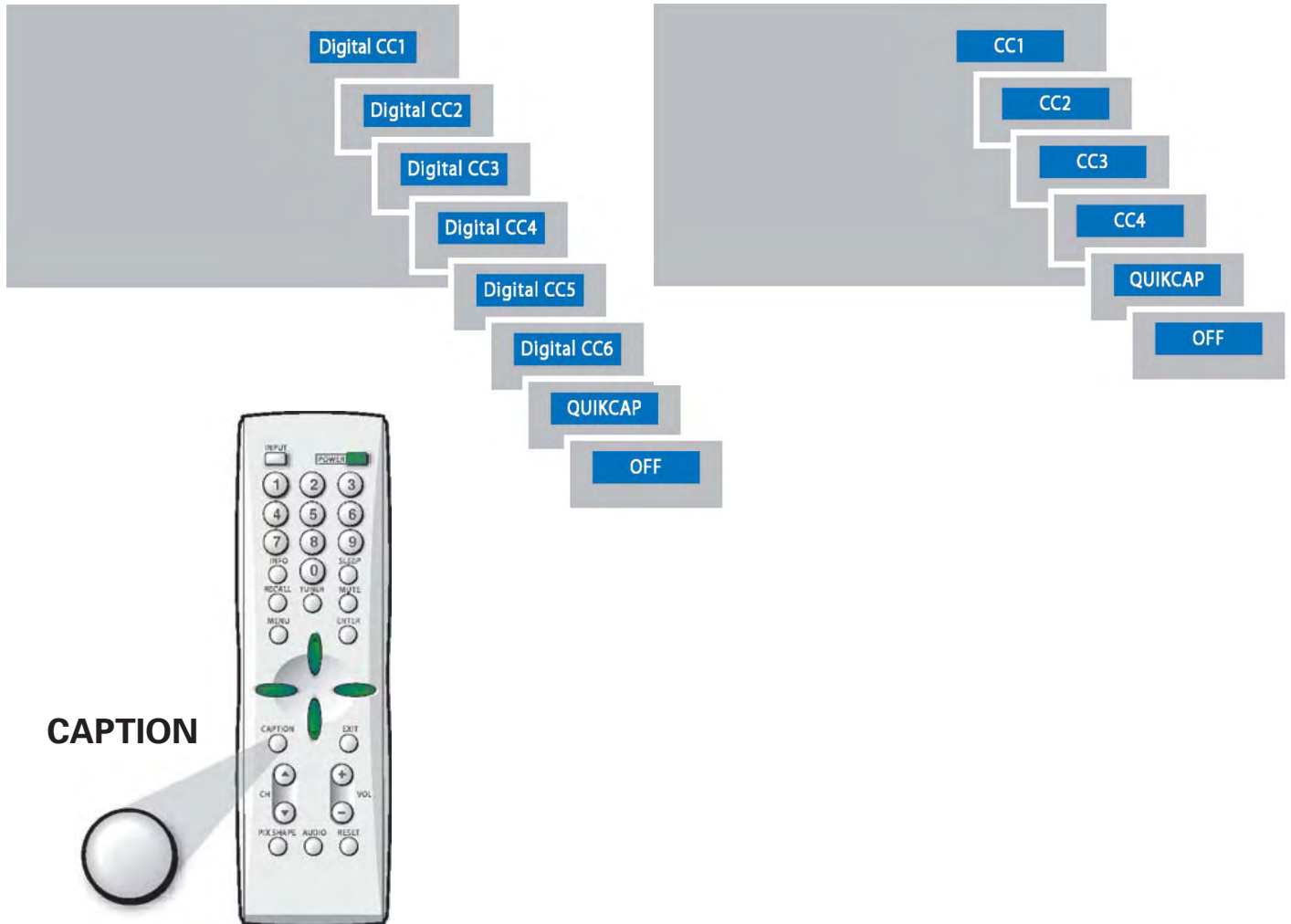
## MENU OPTION—DIGITAL CAPTION (Continued)

### TO VIEW CAPTIONS

Press the **CAPTION** key to select caption modes.

**Digital modes:** Digital CC1 through Digital CC6, QuikCap, and Off.

**Analog modes:** CC1 through CC4, QuikCap, and Off.



### HELPFUL HINTS (PROBLEMS/SOLUTIONS)

SYMPTOM	CHECK THESE CONDITIONS	TRY THESE SOLUTIONS
NO Captioning	<ul style="list-style-type: none"> <li>● Check if station is broadcasting a Closed-Caption signal.</li> </ul>	<ul style="list-style-type: none"> <li>● Press <b>CAPTION</b> key to select Captioning.</li> </ul>
Cannot customize Caption	<ul style="list-style-type: none"> <li>● Digital Caption signal not being broadcast.</li> </ul>	<ul style="list-style-type: none"> <li>● Press <b>CAPTION</b> key to select Analog captioning.</li> </ul>

*If you continue to experience problems, please call toll free  
1-800-877-5032. We can Help!*

## GLOSSARY OF TERMS

**Analog**—Commonly refers to the current NTSC transmission standard for televisions.

**Aspect Ratio**—The ratio of the width to the height of a TV screen independent of the screen size (x units wide by x units high). Analog is 4:3; Digital can be 4:3 or 16:9 (also called wide screen).

**ATSC**—Advanced Television Systems Committee

**AV Jacks**—Audio Video Jacks

**Bandwidth**—The range of frequencies assigned to a broadcast channel. A TV channel is 6 MHz wide.

**Component Jacks (Y Pb Pr)**—Green, Blue, and Red video jacks that accept 480i, 480p, 720p, and 1080i signals. By separating the Green (Y), Blue (Pb), and Red (Pr) video signal components, clearer, more-defined images that exceed the performance of S-Video and Composite video jacks are achieved.

**Composite Jacks**—White, Red, and Yellow AV jacks. The White and Red jacks carry the Left and Right audio signals while the Yellow jack carries the composite video signal.

**Dolby® Digital (Formally known as Dolby AC-3)**—A 5.1 channel (Front L/R, Rear L/R, Center, and Bass) surround sound audio standard for digital television.

**Downconverting**—The removal of pixels. Frame rate and/or scanning format may also change. Broadcasters may use this process to make room in their bandwidth for additional services, such as, sub-channels.

**DTV (Digital Television)**—Comprises four elements, HDTV, EDTV, SDTV, and Multicasting.

**DVI**—Digital Visual Interface. A pure digital video interface that can pass standard-definition and high-definition video signals. It supports the HDCP copy protection standard, allowing transmission of copy-protected digital content.

**EDTV**—Enhanced-Definition TV (480p)

**HDMI**—High-Definition Multimedia Interface. An all digital audio/video interface that accepts uncompressed video signals for the very best picture possible. It supports the HDCP copy protection standard, allowing transmission of copy-protected digital content. The signal can also include Dolby® Digital or PCM audio, when available.

**HDTV**—High-Definition TV (720p, 1080i, & 1080p)

**Input / Output Jacks**—Used to receive (input) and send (output) signals from one device to another. Such as, from a DVD player (Output) to the TV (Input).

**Interlaced Scanning**—The process of scanning two fields of video then combining (interlacing) them to make one frame of video (or one complete image).

**Letter Box**—This term is used to describe a 16:9 ratio image being displayed on a 4:3 ratio display device. Black bands appear at the top and bottom of the screen.

**MPEG2**—A compression scheme for moving images and audio. It was developed by the Motion Picture Experts Group. This makes HDTV and multicasting possible.

**Multicasting**—The dividing of a station's broadcast signal into sub-channels of programming or data services. The resolution of the main channel must be reduced to make room for sub-channels.

**NTSC**—National Television Systems Committee

**Pillar Boxing**—This term is used to describe a 4:3 ratio image being displayed on a 16:9 ratio display device. Black bars (or pillars) appear at the sides of the screen.

**Pixel**—Picture Element

**Progressive Scanning**—The process of scanning lines sequentially. One scan produces one frame of video (or one complete image).

**Set-Top Box (STB)**—A device that receives and converts signals for display on a television screen (can be digital or analog). Many digital STBs have cable and over-the-air tuners.

**SDTV**—Standard-Definition TV (480i)

**Signal**—The picture, sound, and data transmitted or received through the air to an antenna, over a Cable TV system, from a Satellite to a dish and receiver, or between external components of an Audio/Video system.

**Simulcast**—Simultaneously broadcasting the same program on two or more channels. This is required by the FCC during the transition from analog to digital. Simulcasting is scheduled to end and only digital broadcasts will continue after February 17, 2009.

**S-Video Jack**—A round 4-pin jack that accepts separated luminance and chroma signals from a DVD player, Super VHS VCR, or similar analog device. The resolution of this input exceeds that of a composite video input (yellow connector), but is lesser than the resolution of component inputs (Y Pb Pr).

**Terrestrial**—An over-the-air broadcast to an antenna.

**Upconverting**—A process of converting original analog programming to digital for DTV broadcasting. Pixels may be duplicated and inserted between existing pixels to simulate HDTV. This does not increase the resolution. The resolution of an image is set during the recording process. It cannot be increased through conversion processes.

**Wide Screen**—Used to describe a 16:9 or greater aspect ratio. 16:9 is the standard aspect ratio for HDTV digital displays. Movies screens are often slightly wider.

## FREQUENTLY ASKED QUESTIONS (FAQ)

### 1. What channel do I put my television on to watch a DVD player?

To determine where the DVD player is connected, turn the DVD player and TV on and set the TV on channel 3. Then press the **INPUT** key on the remote control to scroll through the signal inputs to locate the DVD player startup screen.

### 2. I am not receiving all of my VHF and UHF channels or cable channels?

Make sure an antenna or your cable service is connected to the "ANT" Terminal. If there is a VCR connected, make sure it is turned off. Press the **RESET** key on the remote two times to begin an automatic channel search.

### 3. How do you turn the caption on and off?

To turn captioning on or off, press and release the **CAPTION** key on the remote until the desired caption mode appears (CC1 and Digital CC1 are used most commonly).

### 4. I'm connected to a satellite system. How do I get my television to go to channel 73?

Turn on the satellite receiver then press the **RESET** key on the remote twice to begin a channel search. If after the search no satellite channels appear. Tune the TV to channel 3. Press the **MENU** key on the remote and select "Analog Antenna Signal." Use the **CURSOR** keys to select CABLE. Press the **EXIT** key, then press in channel 73.

### 5. How do I get a full picture on the screen?

If you are connected to a Cable box or Satellite receiver, bring up the box menus and select 16.9 as the screen aspect ratio. Then press the **PIX SHAPE** key on the television remote control for the desired screen shape.

### 6. Is my remote universal?

No, this remote control is designed to operate a Sanyo television only.

### 7. When I do a channel search some of my digital channels disappear. What is wrong?

Many digital stations are not on-the-air 24 hours a day. After doing the initial channel search, always use the menu system to perform a "Digital Add-on Search" to add new digital channels, so that stations not on-the-air during the search will not be erased.

### 8. There is no picture, sound is ok?

Check appropriate video connection to make sure it corresponds to the audio connection being used. If the sound is associated with component jacks on a DVD player, it may be necessary to access the DVD menu to select the component outputs or S-Video output.

### 9. There is no sound, picture is clear?

If you are connecting your television through the Composite jacks (Video1), S-Video jack (Video1), or Component jacks (Video2 or Video3) the matching audio jacks must also be connected.

### 10. The picture is not as clear as it should be. Am I using the best quality connection?

*Picture quality is classified as follows:*

Analog RF signal (off-air or cable) . . . . .	Basic
Video1 (Composite – yellow) . . . . .	Good
Video1 (S-Video). . . . .	Better
Video2 (Component – green, blue, red) . . . . .	Exceptional
Video3 (Component – green, blue, red) . . . . .	Exceptional
Digital RF . . . . .	Exceptional

### 11. How do I register my television warranty?

No registration is necessary, just hold on to your sales receipt. We will warranty the television from the date on the receipt.

### 12. Where is the code for a Sanyo television to program into my universal remote?

You must obtain the code from the manufacturer of the remote control you want to program. Refer to the remote's owner's manual.

### 13. When I adjust the volume on the television why does the volume level on the surround sound system remain steady?

The audio output jacks are set to a fixed level and do not vary with the television volume. The volume control on the surround sound system must be used.

### 14. My digital channel number doesn't match the station number.

On some digital channels the channel number displayed on the television will be different than the channel ID number. This is determined by the digital package broadcasted from the local station through the digital signal.

### 15. What is the recommended method for cleaning the cabinet and screen?

Many common household aerosol sprays, cleaning agents, solvents, and polishes will cause permanent damage to the fine cabinet surface.

1. Unplug the power cord before cleaning the television.
2. Clean the cabinet and screen with a soft damp cloth.

NOTE: Never spray liquids on the screen because they can run down and drip onto the chassis. This may cause component failure not covered under Warranty.



## ONE-YEAR LIMITED PARTS AND LABOR WARRANTY

THIS LIMITED PARTS AND LABOR WARRANTY IS VALID ONLY ON SANYO TELEVISIONS PURCHASED AND USED IN THE UNITED STATES OF AMERICA, CANADA, AND PUERTO RICO, EXCLUDING ALL OTHER U.S. TERRITORIES AND PROTECTORATES. THIS LIMITED WARRANTY APPLIES ONLY TO THE ORIGINAL RETAIL PURCHASER, AND DOES NOT APPLY TO PRODUCTS USED FOR INDUSTRIAL OR COMMERCIAL PURPOSES.

### WARRANTY APPLICATION

**FOR ONE YEAR** from the date of original retail purchase Sanyo Manufacturing Corporation (SMC) warrants this TV to be free from manufacturing defects in materials and workmanship under normal use and conditions for parts and labor.

For the **FIRST 90 DAYS** from the date of original retail purchase, Sanyo Manufacturing Corporation will replace any defective TV via exchange at the retailer. **To ensure proper warranty application, keep the original-dated-sales receipt for evidence of purchase. Return the defective TV to the retailer along with the receipt and the included accessories, such as the remote control. The defective TV will be exchanged for the same model, or a replacement model of equal value, if necessary. Replacement model will be contingent on availability and at the sole discretion of Sanyo Manufacturing Corporation.**

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

### OBLIGATIONS

For one year from the date of purchase, Sanyo Manufacturing Corporation warrants this product to be free from defects in material and workmanship under normal use and conditions. During the first 90 days under this warranty for any manufacturing defect or malfunction Sanyo Manufacturing Corporation will provide a new TV via exchange at the retailer.

### HOW TO MAKE A CLAIM UNDER THIS WARRANTY

**Please call 1-800-877-5032.** Please be prepared to give us the television's model number and serial number when you call. The model number and serial number are **printed on a label attached to** the back of the unit.

**For customer assistance, call toll free 1-800-877-5032.**

**Weekdays 7:30 AM – 7:00 PM Central Time**

**Saturday 7:30 AM – 4:00 PM Central Time**

This warranty expresses specific contractual rights; retail purchasers may have additional statutory rights which vary from state to state.

(EFFECTIVE: March 1, 2007)

For your protection in the event of theft or loss of this product, please fill in the information requested below and **KEEP IN A SAFE PLACE FOR YOUR OWN PERSONAL RECORDS.**

Model No. \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Serial No. \_\_\_\_\_

Purchase Price \_\_\_\_\_

(Located on back of unit)

Where Purchased \_\_\_\_\_



Sanyo Manufacturing Corp.  
3333 Sanyo Road, Forrest City, AR 72335

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