

User Guide

INSIGNIA™

19" 720p LED HDTV/22" 1080p LED HDTV
NS-19E430A10/NS-22E430A10



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CHILD SAFETY

It makes a difference how and where you use your flat panel display

As you enjoy your new product, keep these safety tips in mind

The issue

The home theater entertainment experience is a growing trend, and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations. We and the consumer electronics industry are committed to making home entertainment enjoyable and safe.

TVs that are inappropriately placed on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause injury.

Tune into safety

- One size of TV stand does **not** fit all. Use only a TV stand rated for the weight of your TV.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't let children climb on or play with entertainment system furniture and TVs.
- Don't place TVs on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger-than-life" TV. Make sure that you place or install the TV where it cannot be pushed, pulled over, or knocked down.
- Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.



Wall mounting

If you decide to wall mount your TV, always remember:

- One size of wall mount does **not** fit all. Use only a wall mount rated for the weight of your TV and that has been recommended by this TV manufacturer, listed in this manual, or otherwise listed by an independent laboratory as suitable for your TV.
- Follow all instructions supplied by the TV and wall mount manufacturers.
- If you have any doubts about your ability to safely wall mount your TV, get help from a professional installer.
- Make sure that the wall where you are mounting the TV is appropriate. Some wall mounts are not designed to be mounted to walls backed with steel studs or cinder blocks. If you are unsure, ask a professional installer.
- TVs can be heavy. At least two people are required for safe wall mount installation.




Important safety instructions



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with a dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- 15 The *mains plug* is the disconnecting device. The plug must remain readily operable.
- 16 The apparatus with grounding-type plug is a class I apparatus. Class I apparatus need to be connected to earth ground wire to prevent possible electric shock. Make sure that you connect the class I apparatus to a mains socket outlet with a protective earthing connection.
- 17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.
- 18 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Warnings

Electric shock hazard

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

Lightning

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

Power lines

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.

Handling the LCD panel

- Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the LCD panel. If the screen breaks, be careful of broken glass.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle, rinse, and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

Replacement parts

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

Safety check

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

Power source

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

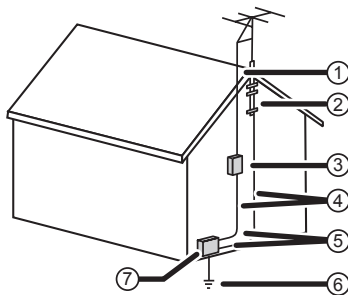
Cautions

Damage requiring service

- Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:
- When the power supply cord or plug is damaged or frayed.
 - If liquid has been spilled or objects have fallen into your TV.
 - If your TV has been exposed to rain or water.
 - If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
 - If your TV has been dropped or damaged in any way.
 - When your TV exhibits a distinct change in performance.

Outdoor antenna grounding

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- ① Antenna lead-in wire
- ② Grounding clamp
- ③ Antenna discharge unit
- ④ Grounding conductors
- ⑤ Ground clamps
- ⑥ Power service grounding electrode system
- ⑦ Electric service equipment

Note to CATV system installer

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually. Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

Mobile telephone warning

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

End of life directives

Your TV contains tin-lead solder and a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated for environmental reasons. Your TV also contains material that can be recycled and reused. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at www.eia.org to find a recycler in your area.

Non-active pixels

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

19" 720p LED HDTV/ 22" 1080p LED HDTV

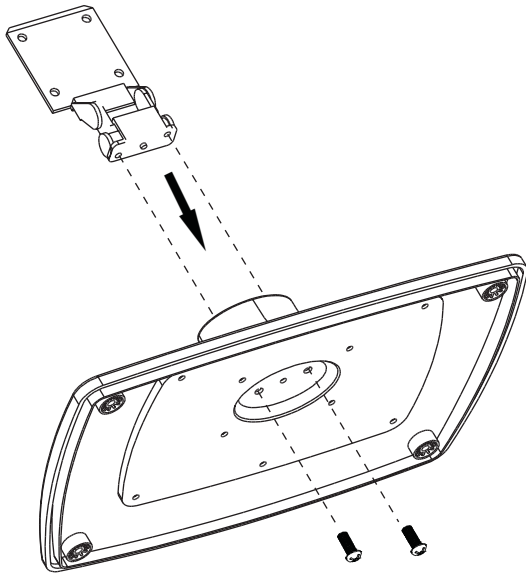
Installing the stand or a wall-mount bracket

Installing the stand

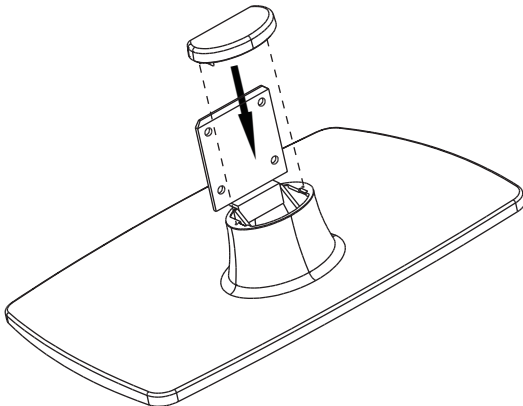
If you plan to use your TV in an upright position on a flat surface, you need to install the stand.

To install the stand:

- 1 Insert the stand bracket into the bracket mounting hold on the stand, then secure the bracket with the two included screws.

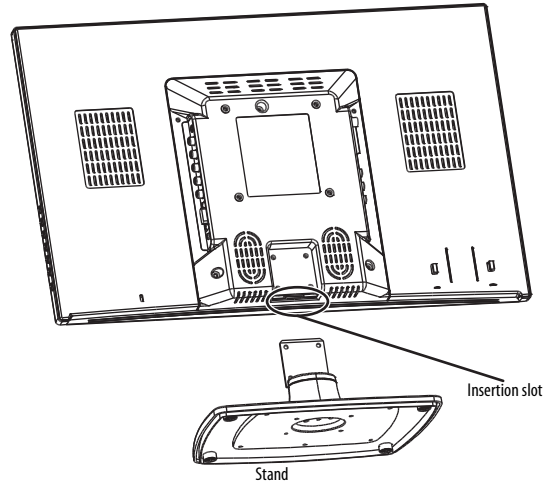


- 2 Install the bracket cap on top of the bracket.

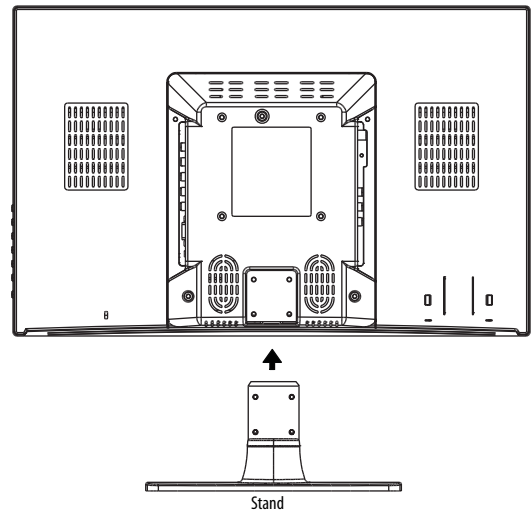


- 3 Place a towel or cushion on a flat surface, then lay your TV face-down on the towel or cushion.

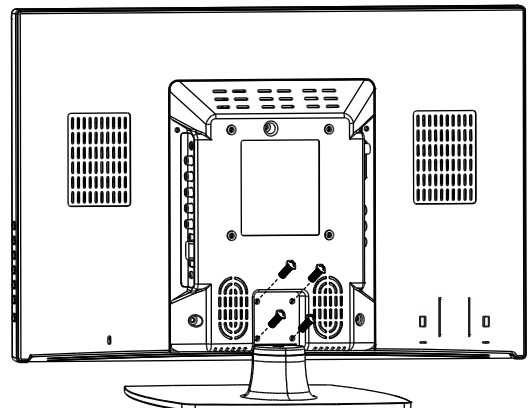
- 4 Find the insertion slot on the stand.



- 5 Slide the stand into the insertion slot.



- 6 Secure the stand with the four provided screws.



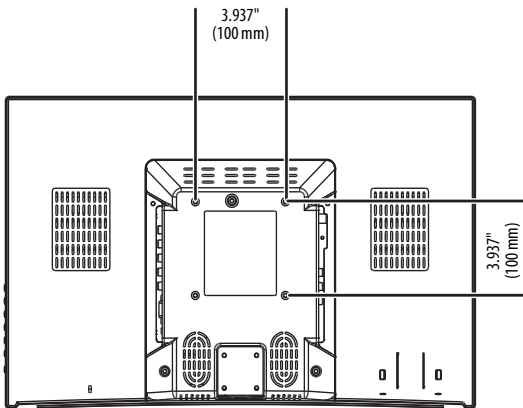
Attaching a wall-mount bracket

Warning

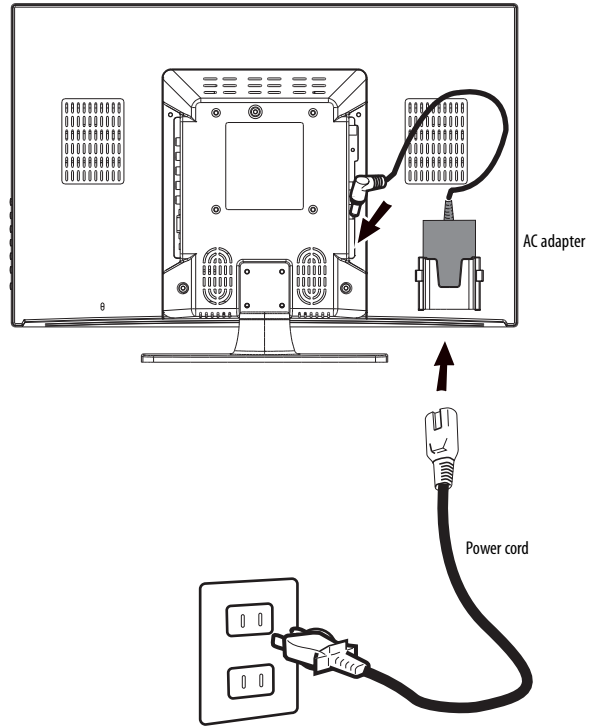
These instructions are for use by qualified service personnel only. To reduce the risk of damage or injury, do not wall-mount your TV unless you are qualified to do so.

To attach a wall-mount bracket:

- 1 If the stand is installed, remove the four screws that secure the stand to the TV, then remove the stand.
- 2 Secure the wall-mount bracket (not provided) to the back of your TV using the screws that secured the stand to your TV. These are M4*12 (4 mm diameter and 12 mm screw thread length) screws.



- 2 Place the AC power adapter into the holder.



- 3 Insert the power cord into the AC adapter, then insert the AC power adapter into the **DC IN 12V** jack on the back of your TV.
- 4 Plug the power cord into a power outlet.

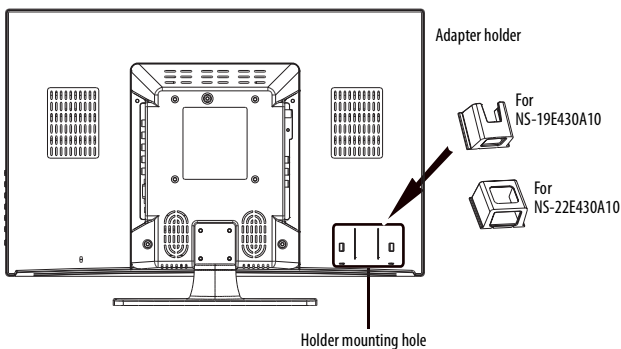
Warning

- If you wall mount your TV, make sure that you use the AC power adapter holder.
- If you place your TV on a flat surface, such as a table, you do not have to use the AC power adapter holder.
- When your TV is turned off, power is still flowing into it. To completely disconnect power, unplug the power cord.

Connecting the power cord

To connect the power cord:

- 1 Slide the AC power adapter holder into the holder mounting hole on the back of the TV.



TV components

Warning

- If you wall mount your TV, make sure that you use the AC power adapter holder.
- If you place your TV on a flat surface, such as a table, you do not have to use the AC power adapter holder.
- When your TV is turned off, power is still flowing into it. To completely disconnect power, unplug the power cord.

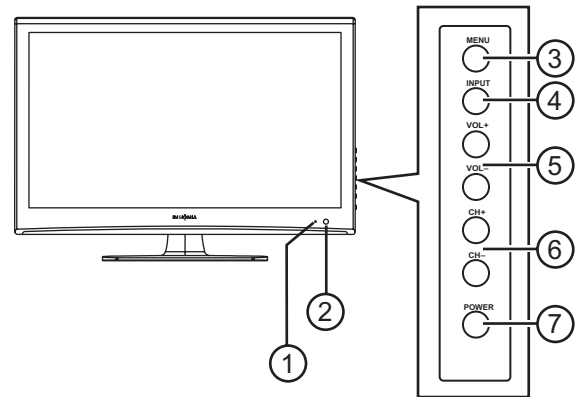
Package contents

- TV
- Stand
- Remote control
- Remote control batteries (2 AAA)
- Screws for attaching the stand or a wall-mount bracket
- VGA cable
- Component video cable
- Audio cable
- AC power adapter and power cable
- AC power adapter holder
- Cleaning cloth
- *User Guide*
- *Quick Setup Guide*

Cleaning cloth

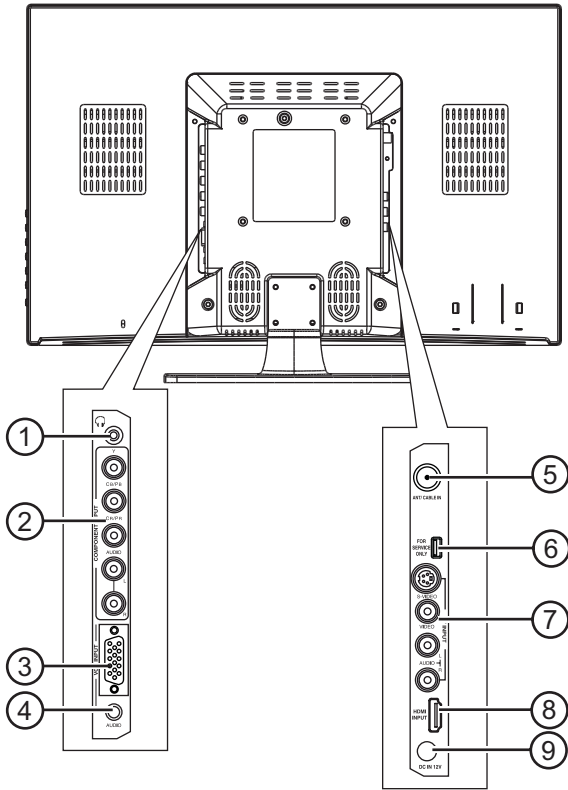
The cleaning cloth is for cleaning the TV screen only. Do not use the cleaning cloth to clean any other part of your TV.

Front



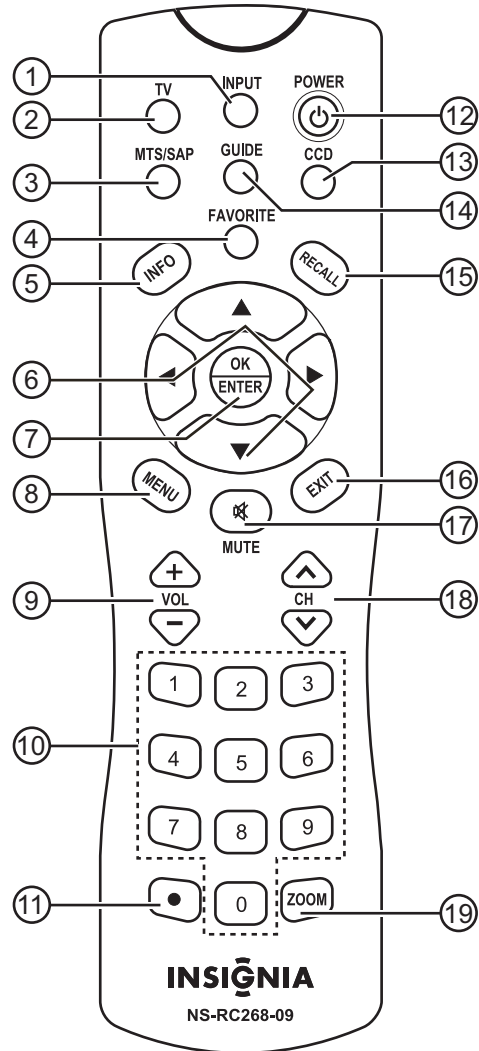
#	Item	Description
①	Power/Standby indicator	Lights when your TV is plugged into a power outlet. When your TV is on, the indicator is blue. When your TV is in standby mode, the indicator is red.
②	IR sensor	Receives signals from the remote control. Do not block.
③	MENU	Press to open the on-screen menu.
④	INPUT	Press to select the video input source. You can select TV, AV, S-Video, Component, HDMI, or VGA.
⑤	VOL+/VOL-	Press to increase or decrease the volume.
⑥	CH+/CH-	Press to go to the next or previous channel in the channel list.
⑦	POWER	Press to turn your TV on or off (standby mode). When your TV is off, power still flows into it. To disconnect power, unplug the power cord.

Back



#	Jack	Description
1	🎧 (headphone)	Plug headphones into this jack
2	COMPONENT INPUT (Y, CB/PB, CR/PR, and L/R AUDIO)	Connect a component video device to these jacks. For more information, see "Connecting a component video device" on page 12.
3	VGA INPUT	Connect a computer's video to this jack. For more information, see "Connecting a computer using VGA" on page 13.
4	VGA AUDIO INPUT	Connect a computer's line out jack to this jack. For more information, see "Connecting a computer using VGA" on page 13. If you are connecting a computer using DVI, see "Connecting a computer using HDMI or DVI" on page 14.
5	ANT/CABLE IN	Connect an antenna, cable TV, or satellite TV to this jack. For more information, see "Connecting an antenna, cable TV, or satellite TV" on page 10.
6	FOR SERVICE ONLY	For service only.
7	AV INPUT (S-VIDEO, VIDEO, and L/R AUDIO)	Connect a standard AV device or S-Video device to these jacks. For more information, see "Connecting a standard video device" on page 11 or "Connecting an S-Video device" on page 11.
8	HDMI INPUT	Connect an HDMI or DVI device to this jack. For more information, see "Connecting an HDMI device" on page 12 or "Connecting a DVI device" on page 13.
9	DC IN 12V	Connect the AC adapter to this jack. When your TV is on, power still flows into it. To disconnect power, unplug the power cord.

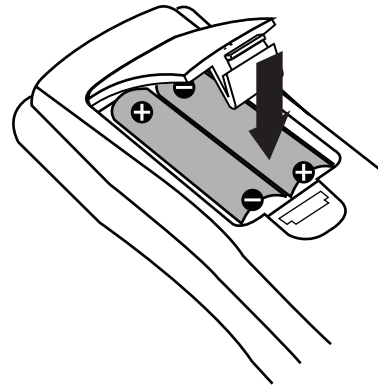
Remote Control



#	Button	Description
1	INPUT	Press to select the video input mode. For more information, see "Selecting the video input mode" on page 15.
2	TV	Press to view TV.
3	MTS/SAP	In analog TV mode, press to select STEREO, Mono, or SAP . In digital TV mode, press to select the audio language. For more information, see "Adjusting the sound" on page 18.
4	FAVORITE	Press to open the favorite list. For more information, see "Setting up the favorite channel list" on page 20.
5	INFO	Press to display information about the input source. For more information, see "Viewing channel information" on page 15.
6	▲ ▼ ◀ ▶	Press to select options and to adjust settings in the on-screen menus.
7	OK/ENTER	Press to confirm selections in the on-screen menus.
8	MENU	Press to open the on-screen menu.
9	VOL +/VOL-	Press to increase or decrease the volume.
10	Numbers	Press to enter channel numbers and the parental control password.
11	● (decimal)	Press to select digital sub-channels. For more information, see "Selecting a channel" on page 15.

#	Button	Description
12	POWER	Press to turn your TV on or off (standby mode). When your TV is off, power still flows into it. To disconnect power, unplug the power cord.
13	CCD	Press to turn closed captioning on or off. For more information about closed captioning, see "Selecting the closed captioning mode" on page 28 and "Setting closed captioning styles" on page 28.
14	GUIDE	Press to display the DTV electronic program guide. For more information, see "Using the electronic program guide" on page 22.
15	RECALL	Press to go the last viewed channel.
16	EXIT	Press to close the on-screen menu.
17	MUTE	Press to mute the sound. Press again to restore the sound.
18	CH ^/CH v	Press to go to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 15.
19	ZOOM	Press to select the aspect ratio. You can select Normal, Zoom, Wide, Cinema, Panorama, or Auto Zoom.

- 3 Press down on the battery compartment cover until it clicks into place.



Cautions

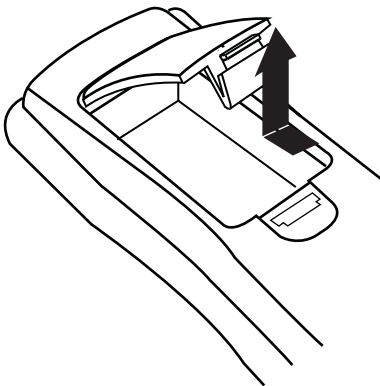
- Do not mix batteries of different types.
- Do not mix old and new batteries.
- Remove batteries when the charge is depleted.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- If the remote control is not going to be used for an extended period of time, remove the batteries.

Using the remote control

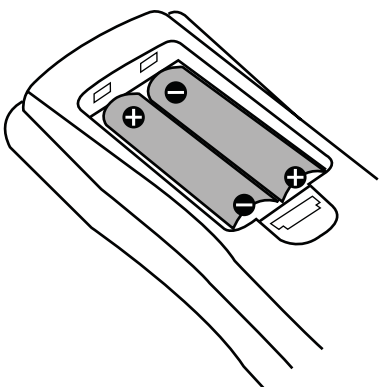
Installing remote control batteries

To install remote control batteries:

- 1 Press in on the latch, then lift the battery compartment cover.



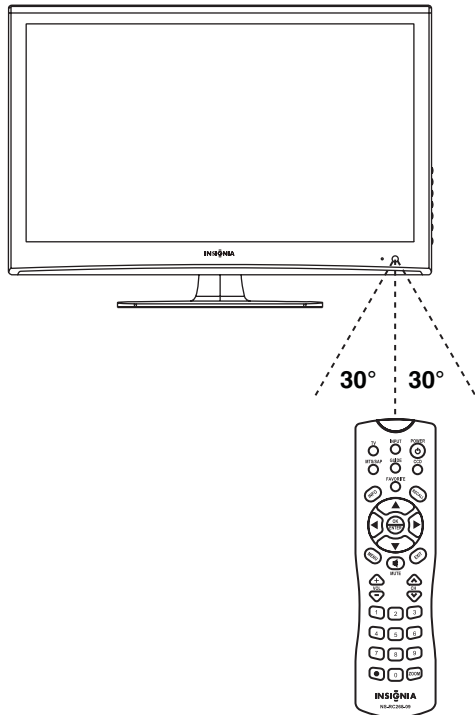
- 2 Insert two AAA batteries into the battery compartment. Make sure that you match the + and - symbols on the batteries with the + and - symbols in the battery compartment.



Aiming the remote control

To use the remote control:

- Point the remote control towards the remote sensor on the front of your TV.



Note

- Do not expose the remote control to shock or liquids.
- Do not use the remote control in an area with high humidity.
- Do not place the remote control in direct sunlight.
- Do not place objects, such as furniture, between the remote control and the remote sensor.
- The remote control may not work if direct sunlight or bright light shines on the remote sensor. Either move your TV or change the angle at which you use the remote control.

Programming a universal remote control to work with your TV

You can operate your Insignia TV with a new or existing universal remote control.

To program a universal remote control:

- 1 Find the code for your universal remote control by identifying its model (or your set-top box's remote control manufacturer and model) on the charts below, then make note of the numbered code below it. You will use the numbered code to program your remote control to work with your Insignia TV.

Insignia TV codes for universal remote controls (for all Insignia TVs manufactured after Jan. 1, 2007)				
Universal remote control manufacturers and models				
Philips PHDVD5, PH5DSS, PMDVR8, PDVR8	RCA RCU807	One for All URC-6690	Sony RM-VL600	
115	135	0464	8043	
Set-top box manufacturers and models				
Comcast M1057	Dish Network VIP508, VIP622	Motorola DRC800	TIVO Series 3, HD	DirectTV RC23
0463	720	0463	0091	10463

Codes for other remote controls are available online at:
www.insigniaproducts.com/universalcontrolcodes.aspx

Tips

- The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
- If your universal remote control isn't listed on the chart, refer to your universal remote control's instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.

- 2 Follow your universal remote control's instructions to enter the TV code you found in Step 1.

Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
- If your universal remote control has a "Learn" feature, you can manually program it using the Insignia TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

- 3 If all else fails, you must use a different universal remote control that can operate both your set-top box and your TV. Four such remotes are listed on the chart, but many other compatible models are available in the market.

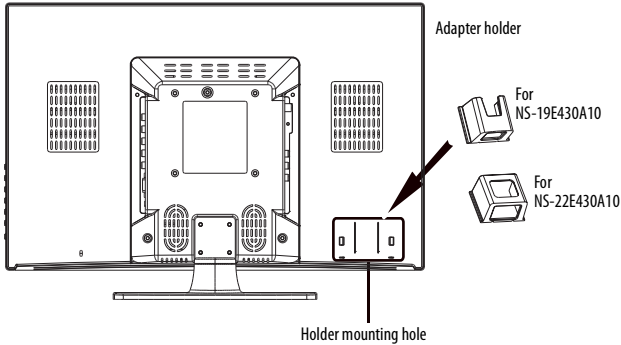
For more help, call technical support for your universal remote control or set-top box manufacturer, or call the Insignia Customer Care Center at 1-877-467-4289.

Making connections

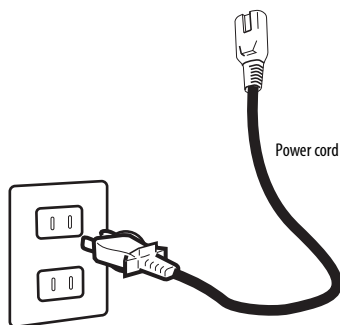
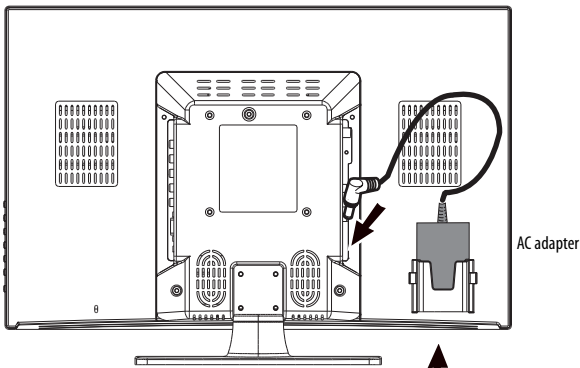
Connecting the power cord

To connect the power cord:

- 1 Slide the AC power adapter holder into the holder mounting hole on the back of the TV.



- 2 Place the AC power adapter into the holder.



- 3 Insert the power cord into the AC adapter, then insert the AC power adapter into the **DC IN 12V** jack on the back of your TV.
- 4 Plug the power cord into a power outlet.

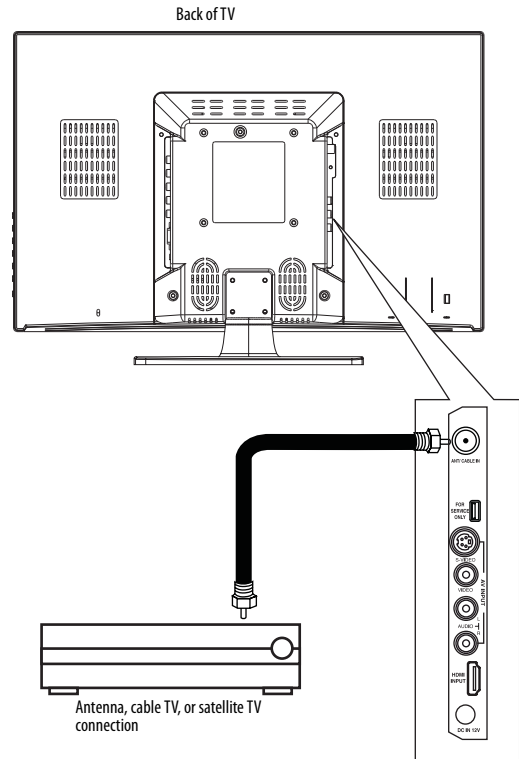
Warning

- If you wall mount your TV, make sure that you use the AC power adapter holder.
- If you place your TV on a flat surface, such as a table, you do not have to use the AC power adapter holder.
- When your TV is turned off, power is still flowing into it. To completely disconnect power, unplug the power cord.

Connecting an antenna, cable TV, or satellite TV

To connect an antenna, cable TV, or satellite TV:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect one end of a coaxial cable to the **ANT/CABLE IN** jack on the back of your TV, then connect the other end to the antenna, cable TV, or satellite TV jack.



- 3 Turn on your TV.
- 4 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **TV**. Press **OK/ENTER**.

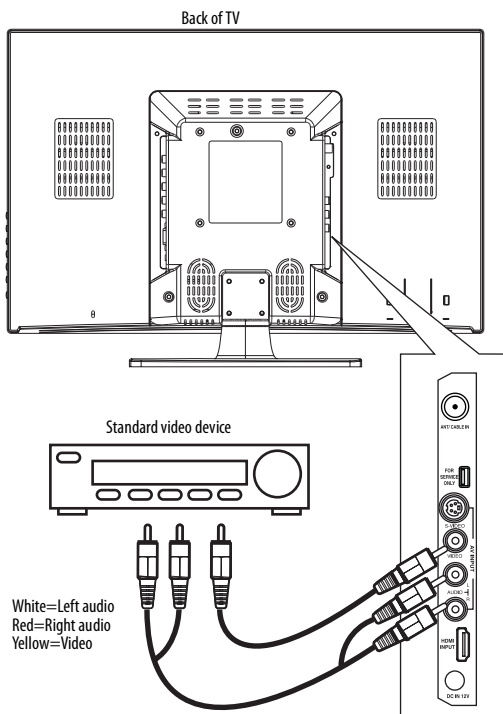
Note

You can also press **TV** on the remote control to select the TV.

Connecting a standard video device

To connect a standard video device:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect an AV cable into the **AV INPUT (VIDEO and L/R AUDIO)** jacks on the back of your TV, then connect the other end of the cable to the **AV OUTPUT** jacks on the external device.

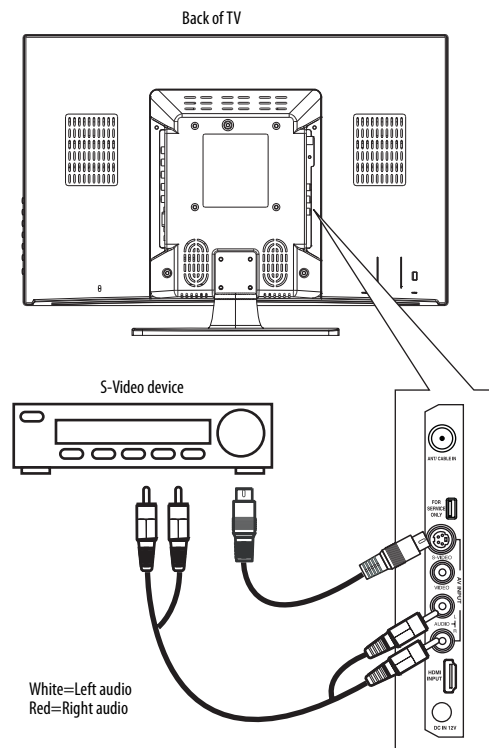


- 3 Turn on your TV.
- 4 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **AV**. Press **OK/ENTER**.

Connecting an S-Video device

To connect an S-Video device:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect one end of an S-Video cable to the **AV S-VIDEO INPUT** jack on the back of your TV, then connect the other end of the cable to the **S-VIDEO OUT** jack on the S-Video device.

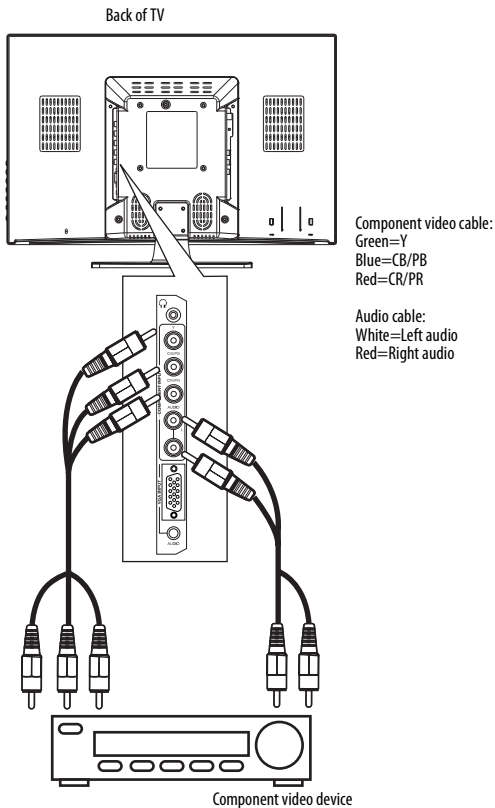


- 3 Connect one end of an audio cable to the **AV INPUT (L/R AUDIO)** jacks on the back of your TV, then connect the other end of the cable to the corresponding audio jacks on the external device.
- 4 Turn on your TV.
- 5 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **S-Video**. Press **OK/ENTER**.

Connecting a component video device

To connect a component video device:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect one end of the component video cable to the **COMPONENT INPUT (Y, CB/PB, and CR/PR)** jacks on the back of your TV, then connect the other end of the cable to the corresponding component video jacks on the external device.

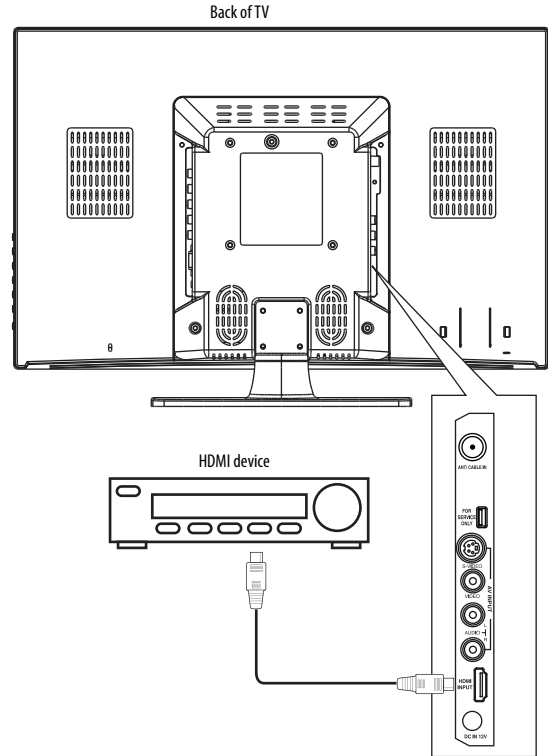


- 3 Connect one end of an audio cable to the **COMPONENT INPUT (L/R AUDIO)** jacks on the back of your TV, then connect the other end of the cable to the corresponding audio jacks on the external device.
- 4 Turn on your TV.
- 5 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **Component**. Press **OK/ENTER**.

Connecting an HDMI device

To connect an HDMI device:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect one end of an HDMI cable to the **HDMI INPUT** jack on the back of your TV, then connect the other end of the cable to the **HDMI OUT** jack on the external device.

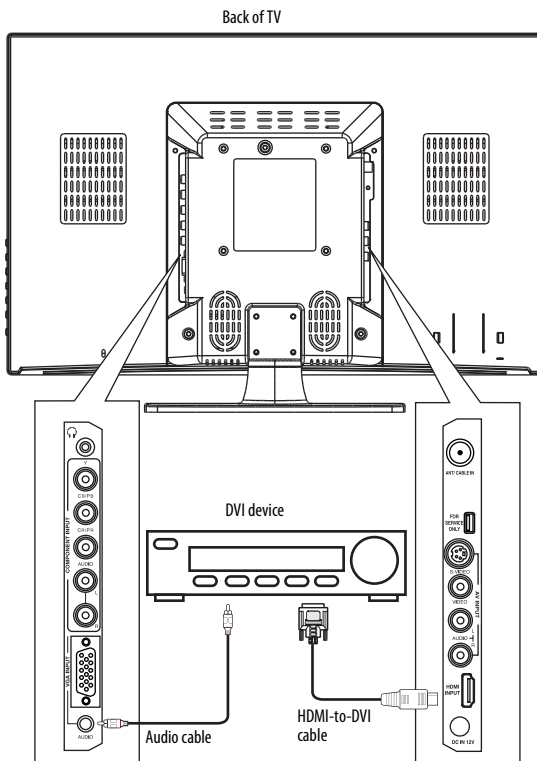


- 3 Turn on your TV.
- 4 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **HDMI**. Press **OK/ENTER**.

Connecting a DVI device

To connect a DVI device:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect one end of an HDMI-to-DVI cable to the **HDMI INPUT** jack on the back of your TV, then connect the other end of the cable to the **DVI OUT** jack on the external device.



- 3 Connect an audio cable to the **VGA AUDIO INPUT** jack on the back of your TV, then connect the other end of the cable into the **AUDIO OUT** jack on the DVI device.

Note

An HDMI-to-DVI cable transfers video only. Separate analog audio cables are required.

- 4 Turn on your TV.
- 5 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **HDMI**. Press **OK/ENTER**.

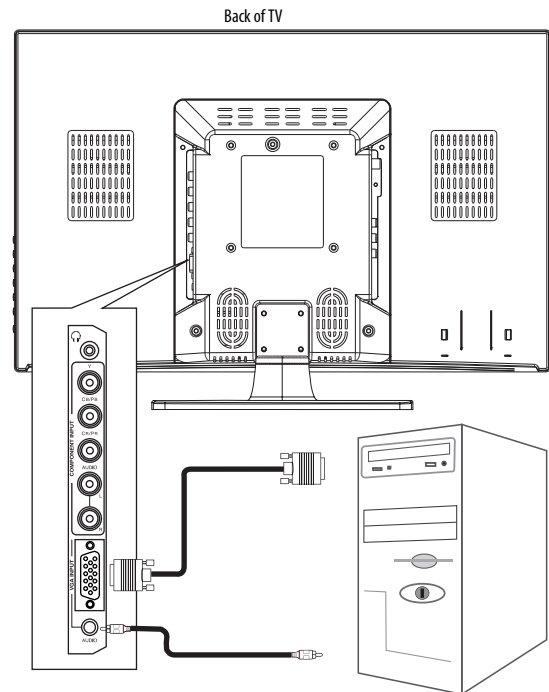
Connecting a computer using VGA

Note

You can also connect a computer using an HDMI connection. For more information, see "Connecting a computer using HDMI or DVI" on page 14.

To connect a computer using VGA:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect a VGA cable to the **VGA INPUT** jack on the back of your TV, then plug the other end of the cable into the **VGA** jack on the computer.



- 3 Connect an audio cable to the **VGA AUDIO INPUT** jack on the back of your TV, then connect the other end of the cable into the **LINE OUT** jack on the computer.
- 4 Turn on your TV.
- 5 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **VGA**. Press **OK/ENTER**.

Connecting a computer using HDMI or DVI

Note

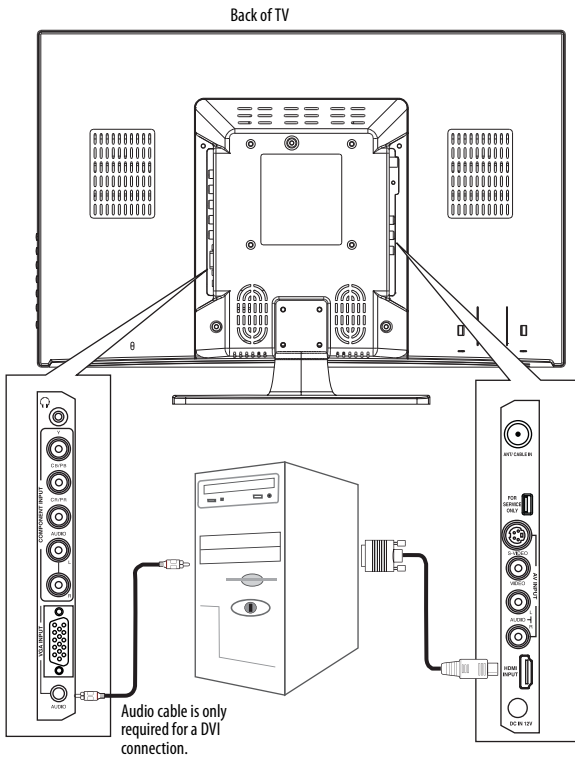
- If you are connecting a computer with an HDMI jack, use an HDMI cable. An HDMI cable transfers both video and audio. Separate audio cables are not required.
- If you are connecting a computer with a DVI jack, use an HDMI-to-DVI cable. An HDMI-to-DVI cable transfers video only. Separate analog audio cables are required.

To connect a computer using HDMI or DVI:

- 1 Make sure that your TV is turned off and the power cord is disconnected.
- 2 Connect one end of an HDMI cable to the **HDMI INPUT** jack on the back of your TV, then connect the other end of the cable to the **HDMI** jack on the computer.

Or,

Connect one end of an HDMI-to-DVI cable to the **HDMI INPUT** jack on the back of your TV, then connect the other end of the cable to the **DVI** jack on the computer.



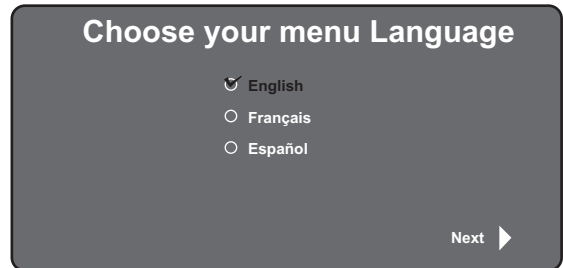
- 3 If you are connecting to a DVI jack on the computer, connect an audio cable to the **VGA AUDIO INPUT** jack on the back of your TV, then connect the other end of the cable into the **LINE OUT** jack on the computer.
- 4 Turn on your TV.
- 5 Press **INPUT** on the remote control or the side of your TV to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select **HDMI**. Press **OK/ENTER**.

Turning on your TV for the first time

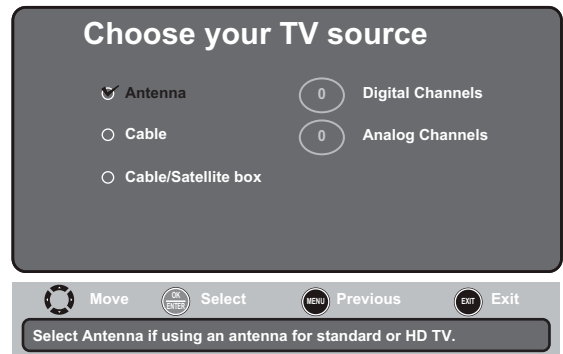
The first time you turn on your TV, the Setup Wizard opens. The Setup Wizard guides you through setting up basic settings including the menu language, TV signal source, and the channel list.

To set up your TV:

- 1 Make sure that you have:
 - Installed the remote control batteries. For more information, see "Installing remote control batteries" on page 8.
 - Connected the antenna, cable TV, or satellite TV. For more information, see "Connecting an antenna, cable TV, or satellite TV" on page 10.
 - Connected the power cord. For more information, see "Connecting the power cord" on page 10.
- 2 Press **POWER** to turn on your TV. The *Choose your menu Language* screen opens.

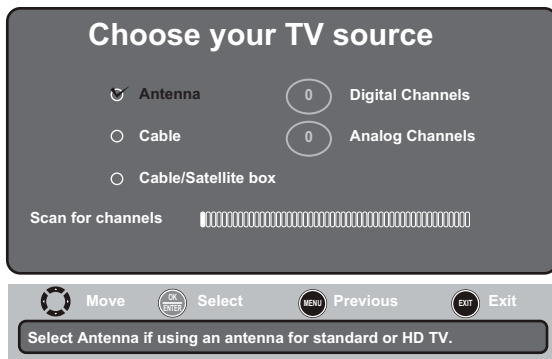


- 3 Press **▲** or **▼** to highlight **English, Français, or Español**, then press **OK/ENTER**. The *Choose your TV source* screen opens.



- 4 Press **▲** or **▼** to highlight:
 - **Antenna**—VHF and UHF channels.
 - **Cable**—Cable TV channels (no cable box).
 - **Cable/Satellite box**—Cable or satellite TV tuner box. If you are using a box, you do not need to scan for channels. If you select this option, your TV will not scan for channels.

- 5 Press **OK/ENTER**. Your TV scans for channels, if necessary.



When the scan is complete, your TV displays the first channel in the memorized channel list. You can stop the scan by pressing **EXIT**.

Understanding the basics

Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

Turning your TV on and off

To turn your TV on and off:

- 1 Press **POWER**. The power indicator turns blue and your TV turns on.
- 2 To turn off your TV, press **POWER** again. Your TV turns off and the power indicator turns red.

Note

When your TV is turned off, power still flows into it. To disconnect power, unplug the power cord.

Selecting the video input mode

Your TV supports multiple video input modes.

To select the video input mode:

- 1 Press **INPUT** to display the input source menu, then press **INPUT** repeatedly or press **▲** or **▼** to select a video input mode. You can select:
 - **TV**
 - **AV**
 - **S-Video**
 - **Component**
 - **HDMI**
 - **VGA**
- 2 Press **OK/ENTER**.

Selecting a channel

To select a channel:

- To go to the next or previous channel in the channel list, press **CH▲** and **CH▼**. Pressing one of these buttons skips any channels that are not in the channel list. The channel list was created when you ran the Setup Wizard or when you scanned for channels.
- To select an analog or main digital channel, press the number buttons for the channel.
- To select a digital sub-channel, press the number buttons for the main digital channel, press **0**, then press the number for the digital sub-channel.
- To tune to the last viewed channel, press **RECALL**.

Adjusting the volume

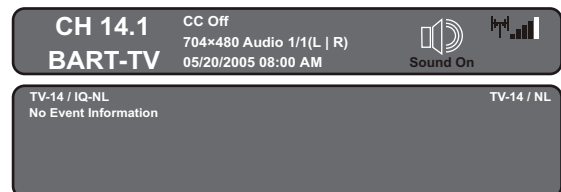
To adjust the volume:

- Press **VOL+** or **VOL-** to increase or decrease the volume.
- Press **MUTE** to turn off the sound. Press again to restore the sound.

Viewing channel information

To view channel information:

- 1 In digital TV mode, select a channel you want to watch.
- 2 Press **INFO** to display information about the program content, if available.



- 3 Press **INFO** again to close the display.

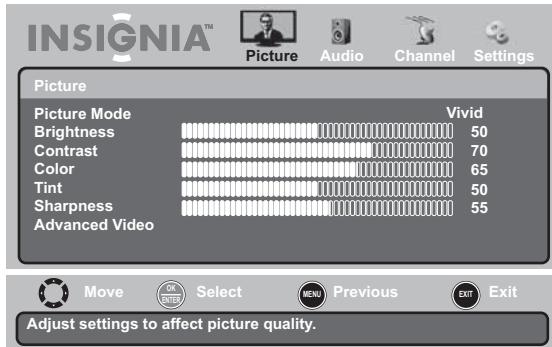
Adjusting the picture

Adjusting the picture

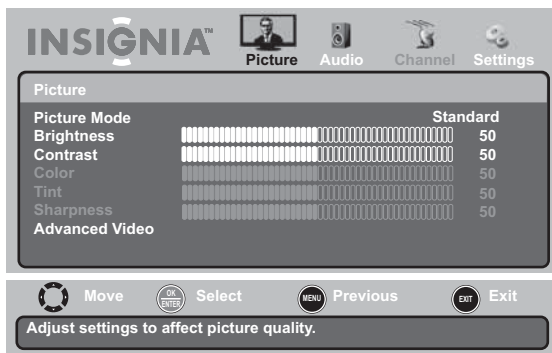
To adjust the picture:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Picture** icon. The *Picture* menu appears.

TV mode



VGA mode



- 2 Press ▼ to access the *Picture* menu.
- 3 Press ▲ or ▼ to highlight a setting, then press ◀ or ▶ to adjust the setting or open a setting menu. If a another menu opens, press ▲, ▼, ◀, or ▶ to adjust the setting. You can select:
 - **Picture Mode**—Selects the picture mode. You can select **Vivid**, **Standard**, **Sports**, **Theater**, **Energy Savings**, or **Custom**.
 - **Brightness**—Adjusts the brightness.
 - **Contrast**—Adjusts the contrast.
 - **Color**—Adjusts the color.
 - **Tint**—Adjusts the tint.
 - **Sharpness**—Adjusts the sharpness.
 - **Advanced Video**—For more information, see "Adjusting advanced video settings" on page 16.

Note

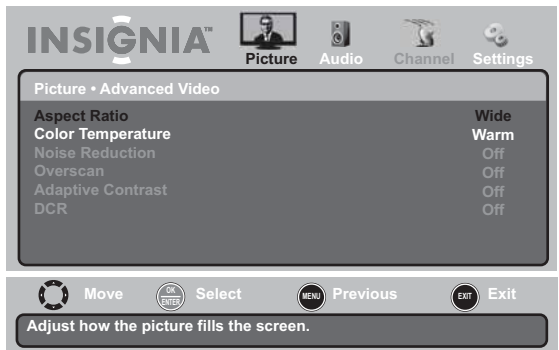
If you adjust **Brightness**, **Contrast**, **Color**, **Tint**, or **Sharpness**, your TV automatically changes the **Picture Mode** to **Custom**.

- 4 Press **MENU** one or more times to return to the previous menu
- 5 Press **EXIT** to close the menu.

Adjusting advanced video settings

To adjust advanced video settings:

- 1 On the *Picture* menu, press ▲ or ▼ to highlight **Advanced Video**, then press ◀ or ▶ to open the **Advanced Video** menu. One of the following menus opens:



- 2 Press ▲ or ▼ to highlight a setting, then press ◀ or ▶ to adjust the setting or open a setting menu. If a another menu opens, press ▲, ▼, ◀, or ▶ to adjust the setting. You can select:
 - **Aspect Ratio**—In TV mode, you can select **Normal**, **Zoom**, **Wide**, **Cinema**, **Panorama**, or **Auto Zoom** (TV mode only). In VGA mode, you can select **Normal** or **Wide**.

Note

If **Auto Zoom** is set to **Off** on the *Channel* menu, **Auto Zoom** will not appear in the **Aspect Ratio** list.

- **Color Temperature**—You can select **Cool**, **Normal**, or **Warm**.
 - **Noise Reduction**—You can select **Off**, **Weak**, **Middle**, **Strong**, or **Auto**. **Auto** is only available in analog TV mode, AV mode, and S-Video mode.
 - **Overscan**—You can select **On** or **Off**. You can use the **Overscan** function to adjust the image when the extra image is not normally seen.
 - **Adaptive Contrast**—You can select **On** or **Off**.
 - **DCR**—You can select **On** or **Off**.
- 3 Press **MENU** one or more times to return to the previous menu.

- Press **EXIT** to close the menu.

Note

For the NS-22E430A10 model, you should set **Overscan** to **Off** when connecting a computer using HDMI or DVI.

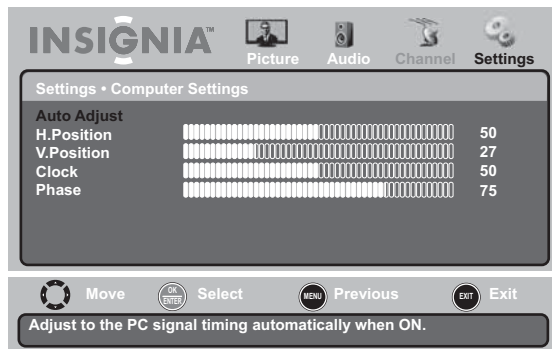
Adjusting VGA settings

To adjust VGA settings:

- Press **MENU**, then press **◀** or **▶** to highlight the **Settings** icon. The *Settings* menu appears.



- Press **▼** to access the *Settings* menu.
- Press **▲** or **▼** to highlight **Computer Settings**, then press **◀** or **▶** to open the *Computer Settings* menu.

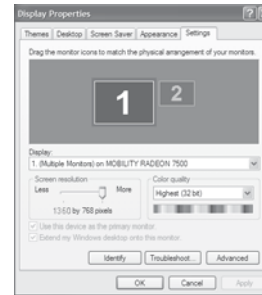


- Press **▲** or **▼** to highlight a setting, then press **◀** or **▶** to adjust the setting or open a settings menu. If another menu opens, press **▲** **▼** **◀** or **▶** to adjust the setting. You can select:
 - Auto Adjust**—Automatically adjusts the PC to the best settings. When this option is highlighted, press **◀** **▶** or **OK/ENTER** to activate the option and automatically adjust the PC settings.
 - H.Position**—Moves the screen image right or left.
 - V.Position**—Moves the screen image up or down.
 - Clock**—Adjusts the sample frequency.
 - Phase**—Adjusts the focus to stabilize the image.
- Press **MENU** one or more times to return to the previous menu.
- Press **EXIT** to close the menu.

Changing the PC's video resolution

To change the PC's video resolution:

- Click **Start**, **Control Panel**, then double-click **Display**. The *Display Properties* dialog box opens.



- Click the **Settings** tab.
- Change the screen resolution setting to a supported resolution. The ideal resolution for your TV is:
 - 1360 × 768 (NS-19E430A10)
 - 1920 × 1080 (NS-22E430A10)
- Click **OK**, then click **Yes** to save your changes.

PC signal input chart

The following table shows the suggested screen resolutions.

NS-19E430A10

Format	Resolution	Frequency (Hz)
VGA	640 × 480	60
	720 × 400	70
SVGA	800 × 600	60
	800 × 600	72
XGA	1024 × 768	60
WXGA	1280 × 768	60
	1360 × 768	60

NS-22E430A10

Format	Resolution	Frequency (Hz)
VGA	640 × 480	60
	720 × 400	70
SVGA	800 × 600	60
XGA	1024 × 768	60
SXGA	1280 × 960	60
WXGA	1360 × 768	60
WUXGA	1920 × 1080	60

If "Unsupported Mode" appears on the screen, adjust the PC display setting to correspond to one of the settings in the preceding table.

Adjusting the sound

Adjusting the sound

To adjust the sound:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Audio** icon. The *Audio* menu appears.

TV mode



VGA mode



- 2 Press ▼ to access the *Audio* menu.
- 3 Press ▲ or ▼ to highlight a setting, then press ◀ or ▶ to adjust the setting or open a setting menu. If a another menu opens, press ▲ ▼ ◀ or ▶ to adjust the setting. You can select:
 - **Sound Mode**—You can select **Standard**, **Music**, **Theater**, **News**, or **Custom**.
 - **Treble**—Adjusts the high sounds.
 - **Bass**—Adjusts the low sounds.
 - **Balance**—Adjusts the balance between the left and right channels.
 - **Audio Language** (Digital TV mode only)—You can select **English**, **French**, or **Spanish**.
 - **MTS** (Analog TV mode only)—You can select **Mono**, **STEREO**, or **SAP**.
 - **Surround Sound**—You can select **On** or **Off**.
 - **Audio Only**—You can select **On** or **Off**. When this feature is turned on, the picture disappears and only the sound plays. To restore the picture, press any button except ⏻ (power).
- 4 Press **MENU** one or more times to return to the previous menu.

- 5 Press **EXIT** to close the menu.

Note

- If you adjust **Treble**, **Bass**, or **Balance**, your TV automatically changes the **Sound Mode** to **Custom**.
- The **Audio Only** function becomes active about 10 seconds after the menu closes.

Selecting the audio mode

You can select the audio mode for analog channels.

To select the audio mode for analog channels:

- Press **MTS/SAP** on the remote one or more times. You can select:
 - **Mono**—Select this option if there is noise or static on weak stereo broadcasts.
 - **STEREO**—Select this option for programs broadcast in stereo.
 - **SAP**—Select this option to listen to a secondary audio program, if available.

Note

Mono is automatically selected if the program is broadcast in mono.

To select an audio track for a digital channel:

- Press **MTS/SAP**. If an audio track is available, it plays.

Changing channel settings

Automatically scanning for channels

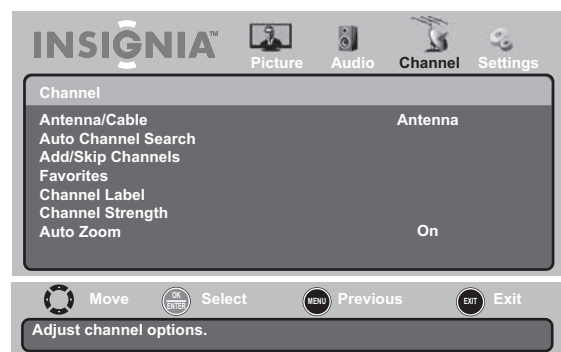
Note

You do not need to scan for channels unless the available channels changed after you ran the Setup Wizard. For more information, see "Turning on your TV for the first time" on page 14.

When you scan for channels, your TV searches for channels available in your viewing area and stores the channel information in the channel list. When you press **CH^** and **CHv**, your TV tunes to the next channel in the channel list and skips any channels that were not stored in the list.

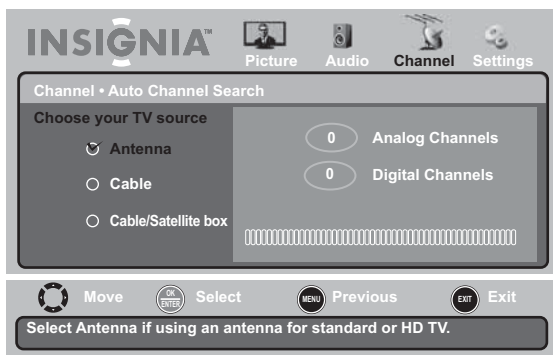
To automatically scan for channels:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Channel** icon. The *Channel* menu appears.



- 2 Press ▼ to access the *Channel* menu.

- 3 Press **▲** or **▼** to highlight **Auto Channel Search**, then press **◀** or **▶**. The *Auto Search* menu opens.



- 4 Press **▲** or **▼** to highlight the TV signal source you are using. You can select:
 - **Antenna**—VHF and UHF channels.
 - **Cable**—Cable TV channels (no cable box).
 - **Cable/Satellite box**—Cable or satellite TV tuner box. If you are using a box, you do not need to scan for channels. If you select this option, your TV will not scan for channels.
- 5 Press **OK/ENTER** to start scanning. Your TV scans for channels in your viewing area and stores the channel information in the channel list. When the scan is complete, your TV tunes to the first channel in the channel list.

Note

You can press **EXIT** to stop the scan, but you must run the scan again to create a complete channel list.

Selecting the signal source

Note

You do not need to select the TV signal source unless the source changed after you ran the Setup Wizard. For more information, see "Turning on your TV for the first time" on page 14.

To select the signal source:

- 1 Press **MENU**, then press **◀** or **▶** to highlight the **Channel** icon. The *Channel* menu appears.

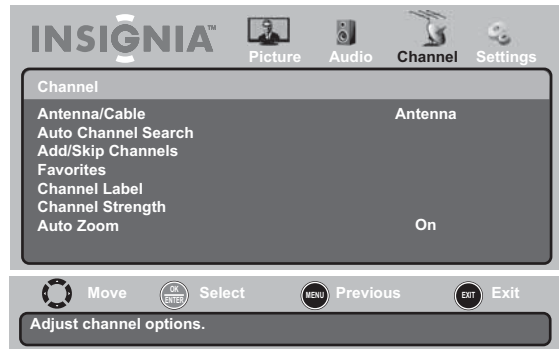


- 2 Press **▼** to access the *Channel* menu.
- 3 Press **▲** or **▼** to highlight **Antenna/Cable**, then press **◀** or **▶**. The *Antenna/Cable* menu opens.
- 4 Press **▲** or **▼** to highlight **Antenna** or **Cable**.
- 5 Press **MENU** one or more times to return to the previous menu.
- 6 Press **EXIT** to close the menu.

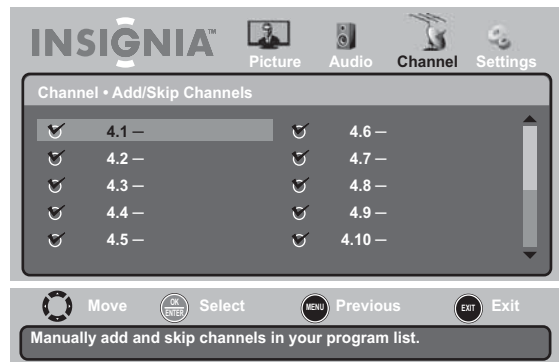
Hiding channels

To hide channels:

- 1 Make sure that you have scanned for channels. For more information, see "Automatically scanning for channels" on page 18.
- 2 Press **MENU**, then press **◀** or **▶** to highlight the **Channel** icon. The *Channel* menu appears.



- 3 Press **▼** to access the *Channel* menu.
- 4 Press **▲** or **▼** to highlight **Add/Skip Channels**, then press **◀** or **▶**. The *Add/Skip Channels* menu opens.



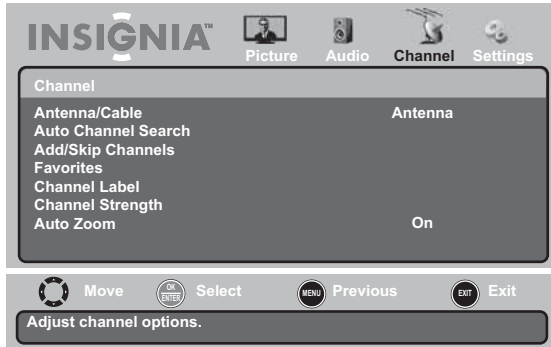
- 5 Press **▲** **▼** **◀** or **▶** to highlight the channel you want to hide, then press **OK/ENTER**.
If the channel has a check mark next to it, the channel is in the channel list. If you delete a channel, the check mark disappears. If you add a channel, a check mark appears.
- 6 Press **MENU** one or more times to return to the previous menu.
- 7 Press **EXIT** to close the menu.

Setting up the favorite channel list

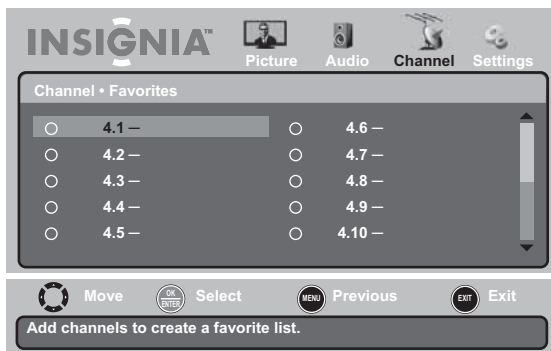
You can create a favorite channel list to make it easier to tune to your favorite channels.

To set up the favorite channel list:

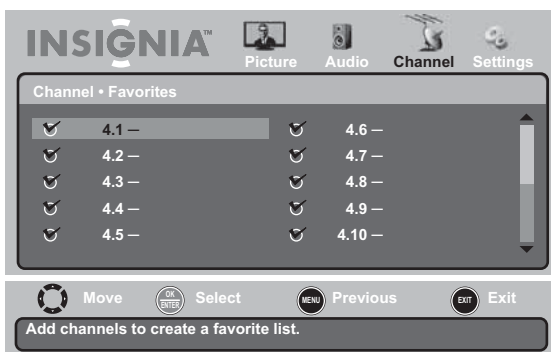
- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Channel** icon. The *Channel* menu appears.



- 2 Press ▼ to access the *Channel* menu.
- 3 Press ▲ or ▼ to highlight **Favorites**, then press ◀ or ▶. The *Favorite* menu opens.



- 4 Press ▲ ▼ ◀ or ▶ to highlight the channel you want to add to the favorite channel list, then press **OK/ENTER**. A check mark appears next to the channel and the channel is added to the favorite channel list.



- 5 Repeat Step 4 to add more channels to the favorite channel list.

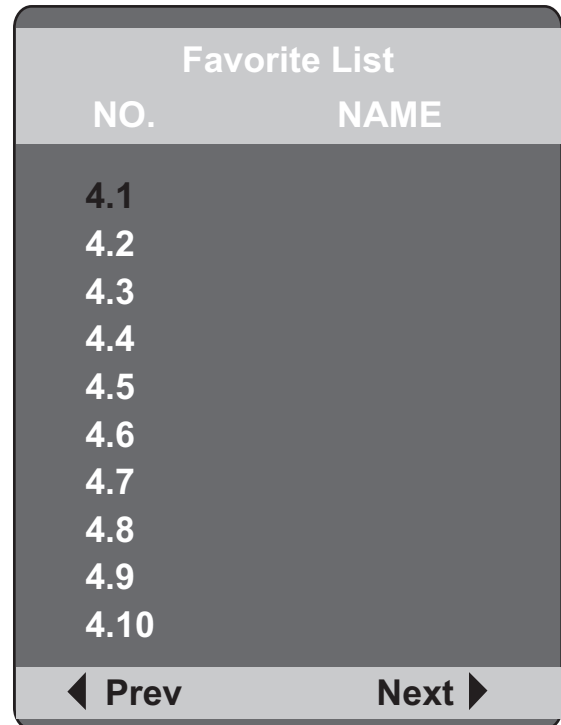
- 6 Press **MENU** one or more times to return to the previous menu.
- 7 Press **EXIT** to close the menu.

Note

Channels that were skipped when you scanned for channels are greyed in the list and cannot be selected.

To select a favorite channel:

- 1 Press **FAVORITE** one or more times until the favorite channel list appears.



- 2 Press ▲ or ▼ to select a channel. If the list has more than one page, press ◀ or ▶ to scroll through the pages.
- 3 Press **FAVORITE** to close the list and tune to the channel you selected.

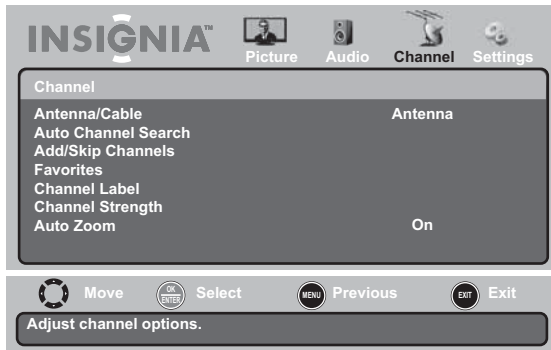
Note

If you have added a label to a channel, the channel label appears next to the channel number in the Favorite list. For more information, see "Adding a channel label" on page 21.

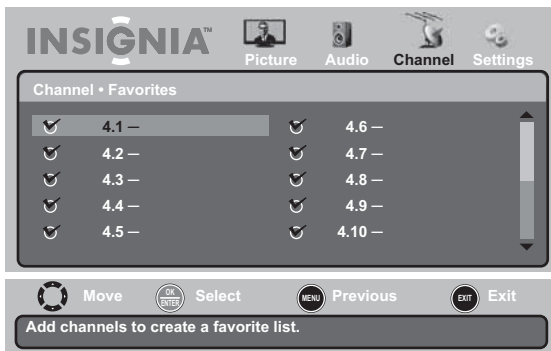
Deleting a channel from the favorite channel list

To delete a channel from the favorite channel list:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Channel** icon. The *Channel* menu appears.



- 2 Press ▼ to access the *Channel* menu.
- 3 Press ▲ or ▼ to highlight **Favorites**, then press ◀ or ▶. The *Favorite* menu opens.



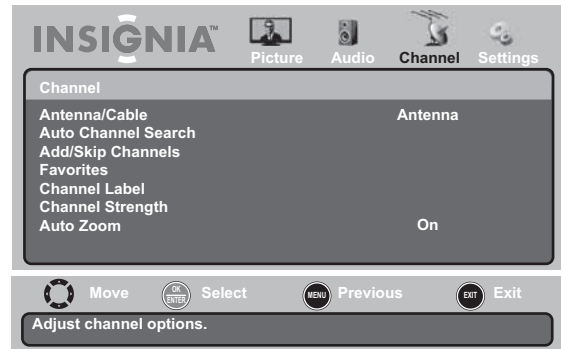
- 4 Press ▲ ▼ ◀ or ▶ to highlight the channel you want to delete from the list, then press **OK/ENTER**. The check mark next to the channel disappears and the channel is deleted from the list.
- 5 Press **MENU** one or more times to return to the previous menu.
- 6 Press **EXIT** to close the menu.

Adding a channel label

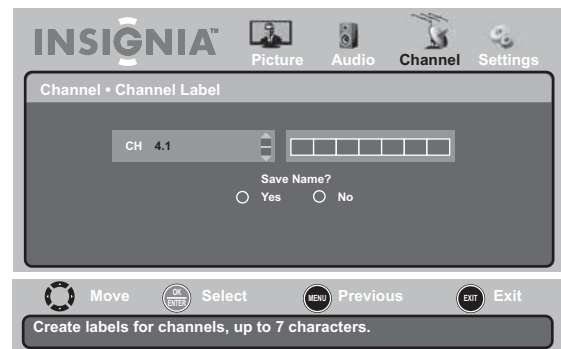
You can add a label to a channel to make it easier to identify.

To add a channel label:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Channel** icon. The *Channel* menu appears.



- 2 Press ▼ to access the *Channel* menu.
- 3 Press ▲ or ▼ to highlight **Channel Label**, then press ◀ or ▶. The *Channel Label* screen opens with **CH** (channel number) highlighted.

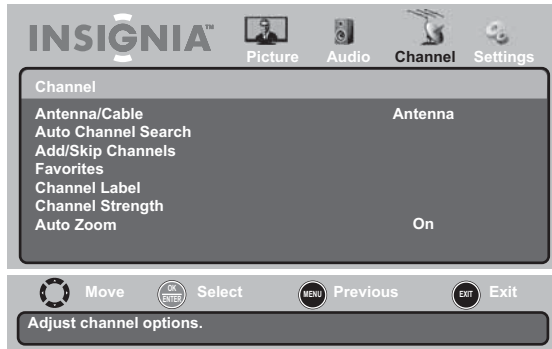


- 4 Press ▲ or ▼ to select the channel you want to label.
- 5 Press ◀ or ▶ to move the cursor to the first label character space.
- 6 Press ▲ or ▼ one or more times to select the first label character, then press ◀ or ▶ to move to the next character space.
- 7 Repeat Step 6 to enter more characters.
- 8 Press ◀ or ▶ to highlight **Yes**, then press **OK/ENTER**.
- 9 Press **MENU** one or more times to return to the previous menu.
- 10 Press **EXIT** to close the menu.

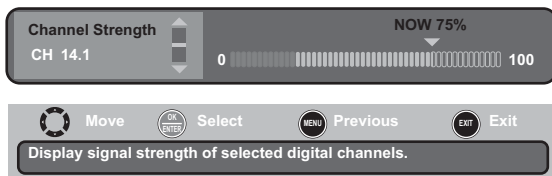
Checking the digital channel strength

To check the digital channel strength:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Channel** icon. The *Channel* menu appears.



- 2 Press ▼ to access the *Channel* menu.
- 3 Press ▲ or ▼ to highlight **Channel Strength**, then press ◀ or ▶. The channel strength indicator appears.



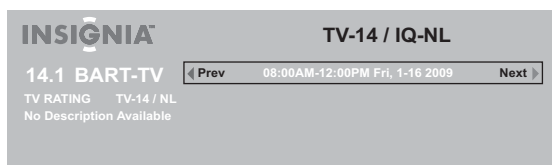
- 4 Press ▲ or ▼ to select the channel you want and to view the selected channel strength.
- 5 Press **MENU** one or more times to return to the previous menu.
- 6 Press **EXIT** to close the menu.

Using the electronic program guide

Your TV has an electronic program guide (EPG) that supplies information such as program lists and program times. In addition, detailed information about the program is often available in the EPG. (The availability and the amount of program details will vary depending on the broadcaster.)

To use the EPG:

- 1 In digital TV mode, select a channel you want to watch.
- 2 Press **GUIDE**. The EPG displays information about the channel you selected.



- 3 Press ◀ or ▶ to view information about future programs on the selected channel.
- 4 Press **GUIDE** one or more times to close the EPG.

Setting parental controls

Turning parental controls on or off

To turn parental controls on and off:

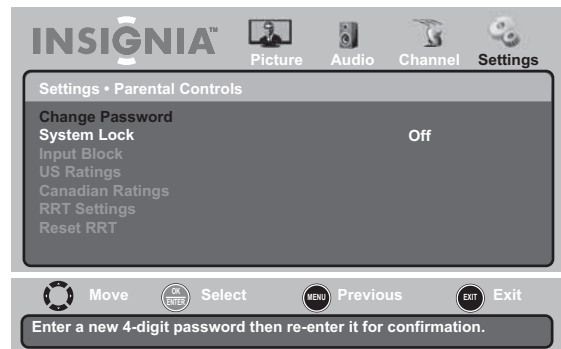
- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Parental Controls**, then press ◀ or ▶. The *Enter Password* screen opens.



- 4 Press the number buttons to enter the password. The default password is **0000**. The *Parental Controls* menu opens.



- 5 Press ▲ or ▼ to select **System Lock**, then press ◀ or ▶ to select **On** or **Off**. To change the **Input Block**, **US Ratings**, **Canadian Ratings**, **RRT Settings**, or **Reset RRT** option, the **System Lock** must be set to **On**.

- 6 Press **MENU** one or more times to return to the previous menu.
- 7 Press **EXIT** to close the menu.

Blocking a video input source

You can prevent an external video device from being used by blocking the video input source.

To block a video input source:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Parental Controls**, then press ◀ or ▶. The *Enter Password* screen opens.

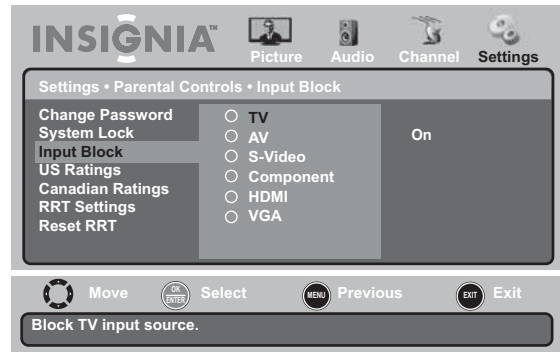


- 4 Press the number buttons to enter the password. The default password is **0000**. The *Parental Controls* menu opens.



- 5 Press ▲ or ▼ to select **System Lock**, then press ◀ or ▶ to select **On**. To select the **Input Block** option, the **System Lock** must be set to **On**.

- 6 Press ▲ or ▼ to highlight **Input Block**, then press ◀ or ▶ to open the *Input Block* menu.



- 7 Press ▲ or ▼ to highlight the video input source you want to block, then press **OK/ENTER**. A lock icon appears next to the video input source. When you press **INPUT** and select the blocked video input source, the screen turns black and "Input is blocked!" appears.

Note

To unblock a video input source, select the input source, then press **OK/ENTER** until the lock icon disappears.

- 8 Press **MENU** one or more times to return to the previous menu.
- 9 Press **EXIT** to close the menu.

Blocking U.S. TV programs

U.S. TV program ratings

Rating	Description
TV-Y	All children
TV-Y7	Children over 7 years of age
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audiences only

Some of the age-based TV ratings also have content-based ratings.

Rating	Description
FV	Fantasy violence
L	Adult language
S	Sexual situations
V	Violence
D	Sexually suggestive dialog

To block U.S. TV programs:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Parental Controls**, then press ◀ or ▶. The *Enter Password* screen opens.



- 4 Press the number buttons to enter the password. The default password is **0000**. The *Parental Controls* menu opens.

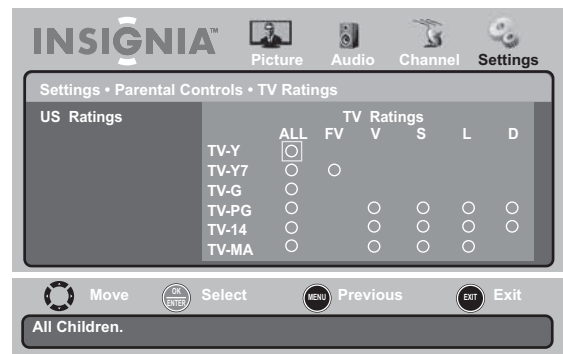


- 5 Press ▲ or ▼ to select **System Lock**, then press ◀ or ▶ to select **On**. To select the **US Ratings** option, the **System Lock** must be set to **On**.

- 6 Press ▲ or ▼ to highlight **US Ratings**, then press ◀ or ▶ to open the *US Ratings* menu.



- 7 Press ▲ or ▼ to highlight **TV Ratings**, then press ◀ or ▶ to open the *TV Ratings* menu.



- 8 Press ▲ ▼ ◀ or ▶ to highlight the TV rating you want to block, then press **OK/ENTER**. A lock icon appears next to the rating you block. That rating and all higher ratings are blocked.

Note

To unblock a rating, select the rating, then press **OK/ENTER** until the lock icon disappears.

- 9 Press **MENU** one or more times to return to the previous menu.
- 10 Press **EXIT** to close the menu.

Note

If the **System Lock** is not set to **On**, the ratings you set do not work. For more information, see "Turning parental controls on or off" on page 22. You can view blocked programs by entering the password. This temporarily switches off the **System Lock**. Switch the channel or source to reactivate the system lock.

Blocking movies

Movie ratings

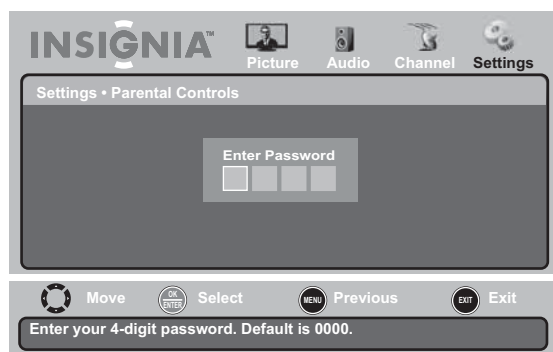
Rating	Description
G	General audiences.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parental guidance strongly suggested. Some material may not be suitable for children under 13 years of age.
R	Restricted. Not suitable for children under 17 years of age unless accompanied by a parent or guardian.
NC-17	Not suitable for children under 17 years of age.
X	Adults only.
None	Not rated.

To block movies:

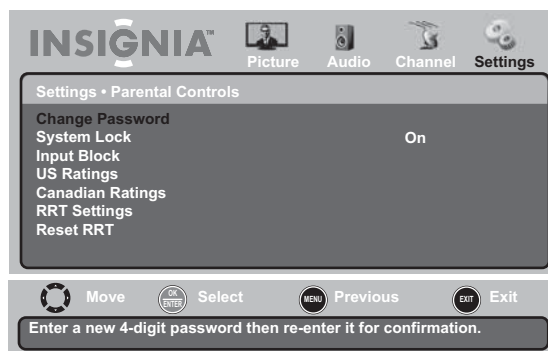
- 1 Press **MENU**, then press **◀** or **▶** to highlight the **Settings** icon. The *Settings* menu appears.



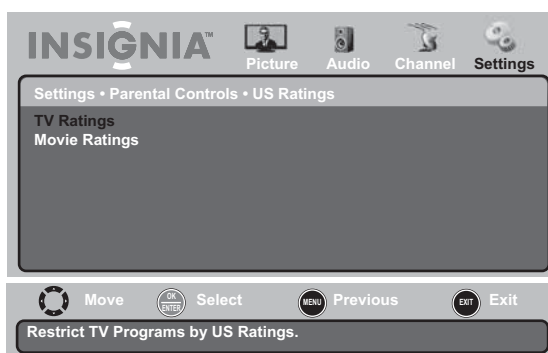
- 2 Press **▼** to access the *Settings* menu.
- 3 Press **▲** or **▼** to highlight **Parental Controls**, then press **◀** or **▶**. The *Enter Password* screen opens.



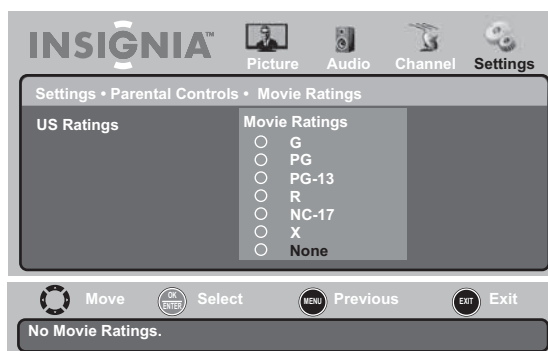
- 4 Press the number buttons to enter the password. The default password is **0000**. The *Parental Controls* menu opens.



- 5 Press **▲** or **▼** to select **System Lock**, then press **◀** or **▶** to select **On**. To select the **US Ratings** option, the **System Lock** must be set to **On**.
- 6 Press **▲** or **▼** to highlight **US Ratings**, then press **◀** or **▶** to open the *US Ratings* menu.



- 7 Press **▲** or **▼** to highlight **Movie Ratings**, then press **◀** or **▶** to open the *Movie Ratings* menu.



- 8 Press **▲** or **▼** to highlight the movie rating you want to block, then press **OK/ENTER**. A lock icon appears next to the rating you block. That rating and all higher ratings are blocked.

Note

To unblock a rating, select the rating, then press **OK/ENTER** until the lock icon disappears.

- 9 Press **MENU** one or more times to return to the previous menu.
- 10 Press **EXIT** to close the menu.

Note

If the **System Lock** is not set to **On**, the ratings you set do not work. For more information, see "Turning parental controls on or off" on page 22. You can view blocked programs by entering the password. This temporarily switches off the system lock. Switch the channel or source to reactivate the system lock.

Blocking Canadian TV programs

Canadian English ratings

Rating	Description
C	Children
C8+	Children 8 years and above
G	General audiences
PG	Parental guidance suggested
14+	14 years and older
18+	Adult programming
E (Exempt)	Not rated

Canadian French ratings

Rating	Description
G	Children
8ans+	Children 8 years and older
13ans+	Children 13 years and older
16ans+	Children 16 years and older
18ans+	Adult programming
E (Exempt)	Not rated

To block Canadian TV programs:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.

- 3 Press ▲ or ▼ to highlight **Parental Controls**, then press ◀ or ▶. The *Enter Password* screen opens.



- 4 Press the number buttons to enter the password. The default password is **0000**. The *Parental Controls* menu opens.



- 5 Press ▲ or ▼ to select **System Lock**, then press ◀ or ▶ to select **On**. To select the **Canadian Ratings** option, the **System Lock** must be set to **On**.
- 6 Press ▲ or ▼ to highlight **Canadian Ratings**, then press ◀ or ▶ to open the *Canadian Ratings* menu.

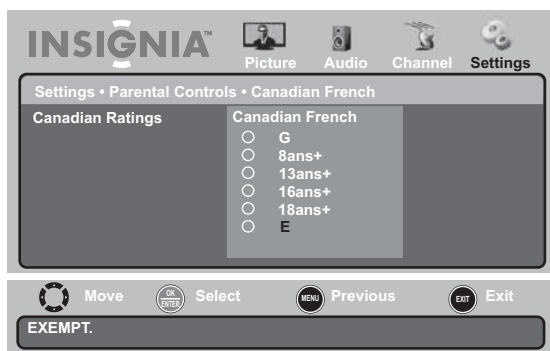


- Press **▲** or **▼** to highlight **Canadian English** or **Canadian French**, then press **◀** or **▶** to open the *Canadian English* or *Canadian French* menu.

Canadian English



Canadian French



- Press **▲** or **▼** to select the rating you want to block, then press **OK/ENTER**. A lock icon appears next to the rating. That rating and all higher ratings are blocked.

Note

To unblock a rating, select the rating, then press **OK/ENTER** until the lock icon disappears.

- Press **MENU** one or more times to return to the previous menu.
- Press **EXIT** to close the menu.

Note

If the **System Lock** is not set to **On**, the ratings you set do not work. For more information, see "Turning parental controls on or off" on page 22.

You can view blocked programs by entering the password. This temporarily switches off the **System Lock**. Switch the channel or source to reactivate the system lock.

Using downloaded rating information

The V-Chip recognizes the current Rating Region Tables (RRT), which is communicated as part of the Program and System Information Protocol (PSIP). It depends on broadcasts which could communicate a new rating system through the PSIP that both the chip and a TV's software can understand. With the RRT setting, program blocking occurs when a program rating is received that meets the preset rating block.

Changing the password

To change the password:

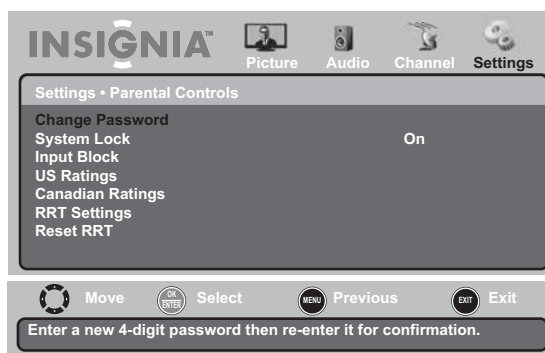
- Press **MENU**, then press **◀** or **▶** to highlight the **Settings** icon. The *Settings* menu appears.



- Press **▼** to access the *Settings* menu.
- Press **▲** or **▼** to highlight **Parental Controls**, then press **◀** or **▶**. The *Enter Password* screen opens.



- Press the number buttons to enter the password. The default password is **0000**. The *Parental Controls* menu opens.



- Press **▲** or **▼** to highlight **Change Password**, then press **◀** or **▶** to open the *Change Password* screen.



- Press the number buttons to enter the new password, then enter the new password again to confirm.
- Press **MENU** one or more times to return to the previous menu.
- Press **EXIT** to close the menu.

Using closed captioning

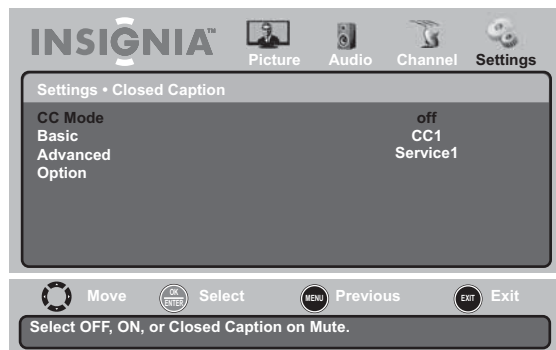
Selecting the closed captioning mode

To select the closed captioning mode:

- Press **MENU**, then press **◀** or **▶** to highlight the **Settings** icon. The *Settings* menu appears.



- Press **▼** to access the *Settings* menu.
- Press **▲** or **▼** to highlight **Closed Caption**, then press **◀** or **▶** to open the *Closed Caption* menu.



- Press **▲** or **▼** to highlight a setting, then press **◀** or **▶** to adjust the setting or open a settings menu. If another menu opens, press **▲** **▼** **◀** or **▶** to adjust the setting. You can select:
 - CC Mode**—You can select **Off**, **On**, or **CC On Mute**.
 - Basic**—You can select **Off**, **CC1** through **CC4**, or **Text1** through **Text4**.
 - Advanced** (DTV only)—You can select **Off** or **Service1** through **Service6**.
 - Option** (DTV only)—Sets the closed captioning styles for DTV. For more information, see "Setting closed captioning styles" on page 28.

- Press **MENU** one or more times to return to the previous menu.

- Press **EXIT** to close the menu.

Setting closed captioning styles

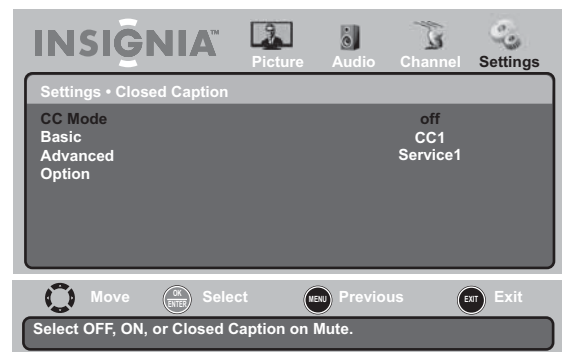
In **DTV** mode, you can change the way closed captioning looks.

To set closed captioning styles:

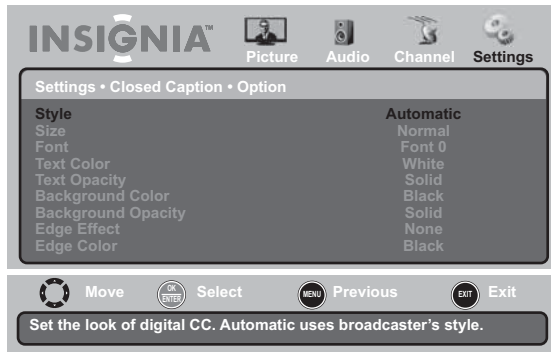
- Press **MENU**, then press **◀** or **▶** to highlight the **Settings** icon. The *Settings* menu appears.



- Press **▼** to access the *Settings* menu.
- Press **▲** or **▼** to highlight **Closed Caption**, then press **◀** or **▶** to open the *Closed Caption* menu.



- 4 Press **▲** or **▼** to highlight **Option**, then press **◀** or **▶** to open the *Option* menu.



- 5 Press **▲** or **▼** to select a style, then press **◀** or **▶** to adjust the setting. You can select:
- **Style**—You can select **Automatic** or **Custom**. If you select **Automatic**, the other settings are not available.
 - **Size**—Selects the font size. You can select **Small**, **Normal** (Default) or **Large**.
 - **Font**—Selects the font style.
 - **Text Color**—You can select **Black**, **White** (Default), **Red**, **Blue**, **Green**, **Yellow**, **Magenta**, or **Cyan**.
 - **Text Opacity**—You can select **Solid** (Default), **Flashing**, **Translucent**, or **Transparent**.
 - **Background Color**—You can select **Black** (Default), **White**, **Red**, **Blue**, **Green**, **Yellow**, **Magenta**, or **Cyan**.
 - **Background Opacity**—You can select **Solid** (Default), **Flashing**, **Translucent**, or **Transparent**.
 - **Edge Effect**—You can select **None** (Default), **Raised**, **Depressed**, **Uniform**, **Left Shadow**, or **Right Shadow**.
 - **Edge Color**—You can select **Black** (Default), **White**, **Red**, **Blue**, **Green**, **Yellow**, **Magenta**, or **Cyan**.
- 6 Press **MENU** one or more times to return to the previous menu.
- 7 Press **EXIT** to close the menu.

- 2 Press **▼** to access the *Settings* menu.
- 3 Press **▲** or **▼** to highlight **Time**, then press **◀** or **▶** to open the *Time Settings* menu.



- 4 Press **▲** or **▼** to highlight a setting, then press **◀** or **▶** to adjust the setting. You can select:
- **Mode**—You can select **Auto** or **Custom**. If you select **Auto**, the date and time are set automatically using information from a digital channel that broadcasts time information. If you select **Custom**, you can manually set the date and time. For more information, see "Manually setting the current date and time" on page 30.
 - **Time Zone**—You can select **Atlantic**, **Eastern**, **Central**, **Mountain**, **Pacific**, **Alaska**, or **Hawaii**.
 - **Daylight Savings**—You can select **On** or **Off**.
 - **Time Format**—You can select **12 hour** or **24 hour**.
 - **Date/Time**—Displays the date and time.
 - **Sleep Timer**—For more information, see "Setting the sleep timer" on page 30.
 - **Wake Timer**—For more information, see "Setting the wake timer" on page 31.
- 5 Press **MENU** one or more times to return to the previous menu.
- 6 Press **EXIT** to close the menu.

Note

- If a power failure occurs or the TV is unplugged, all the times are reset.
- The **Date/Time** option only displays the time when your TV is on a digital channel and time information is available.

Adjusting time settings

To adjust time settings:

- 1 Press **MENU**, then press **◀** or **▶** to highlight the **Settings** icon. The *Settings* menu appears.



Manually setting the current date and time

You can manually set the current date and time.

To manually set the current date and time:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Time**, then press ◀ or ▶ to open the *Time Settings* menu.



- 4 Press ▲ or ▼ to highlight **Mode**, then press ◀ or ▶ to select **Custom**.
- 5 Press ▲ or ▼ to highlight **Date/Time**, then press ◀ or ▶ to open the *Date/Time* screen.



- 6 Press ▲ or ▼ to highlight a setting, then press ◀ or ▶ to open a setting menu. You can select:
 - **Year**—Press ▲ or ▼ to set the current year.
 - **Month**—Press ▲ or ▼ to set the current month.
 - **Day**—Press ▲ or ▼ to set the current day.
 - **Time**—Press ◀ or ▶ to move the cursor from field to field, then press ▲ or ▼ to change the value in the field.

- 7 Press **MENU** one or more times to return to the previous menu.
- 8 Press **EXIT** to close the menu.

Setting the sleep timer

The sleep timer lets you select the amount of time you want your TV to wait before it automatically turns off.

To set the sleep timer:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Time**, then press ◀ or ▶ to open the *Time Settings* menu.



- 4 Press ▲ or ▼ to highlight **Sleep Timer**, then press ◀ or ▶ to open the *Sleep Timer* menu.



- 5 Press ▲ ▼ ◀ or ▶ to select the amount of time you want your TV to wait before it automatically turns off.

- 6 Press **MENU** one or more times to return to the previous menu.
- 7 Press **EXIT** to close the menu.

Note

Sixty (60) seconds before the sleep timer turns off your TV, the sleep timer counts down and shows the remaining seconds until the timer turns off the TV.

Setting the wake timer

You can set the wake timer to automatically turn on your TV at a specific date and time.

To set the wake timer:

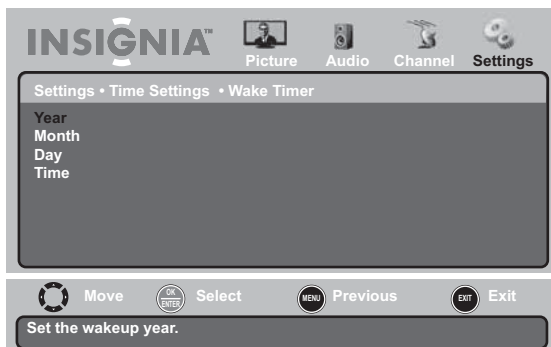
- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* appears opens.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Time**, then press ◀ or ▶ to open the *Time Settings* menu.



- 4 Press ▲ or ▼ to highlight **Wake Timer**, then press ◀ or ▶ to open the *Wake Timer* screen.



- 5 Press ▲ or ▼ to highlight a setting, then press ◀ or ▶ to open a setting menu. You can select:
 - **Year**—Press ▲ or ▼ to set the year.
 - **Month**—Press ▲ or ▼ to set the month.
 - **Day**—Press ▲ or ▼ to set the day.
 - **Time**—Press ◀ or ▶ to move the cursor from field to field, then press ▲ or ▼ to change the value in the field.
- 6 Press **MENU** one or more times to return to the previous menu.
- 7 Press **EXIT** to close the menu.

Adjusting menu settings

Selecting the menu language and transparency

To select the menu language and transparency:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Menu Settings**, then press ◀ or ▶ to open the *Menu Settings* menu.
- 4 Press ▲ or ▼ to highlight a setting, press ◀ or ▶ to open a setting menu, then press ▲ ▼ ◀ or ▶ to adjust the setting. You can select:
 - **Transparency**—Adjust the menu transparency.
 - **Language**—Select the menu language. You can select **English**, **Français**, or **Español**.
- 5 Press **MENU** one or more times to return to the previous menu.
- 6 Press **EXIT** to close the menu.

Changing video input labels

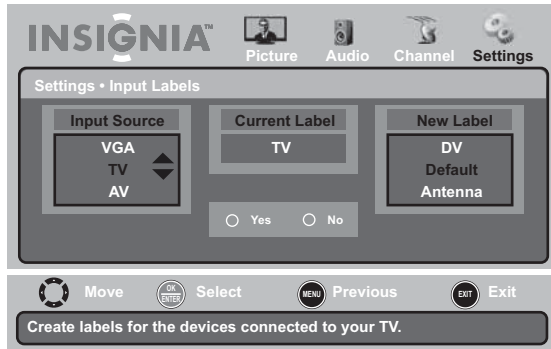
You can change the video input labels to make them easier to identify. The labels appear when you press **INPUT** to select the video input source.

To change the video input labels:

- 1 Press **MENU**, then press ◀ or ▶ to highlight the **Settings** icon. The *Settings* menu appears.



- 2 Press ▼ to access the *Settings* menu.
- 3 Press ▲ or ▼ to highlight **Input Labels**, then press ◀ or ▶ to open the *Input Labels* screen. When the screen opens, the **Input Source** column is highlighted.



- 4 Press ▲ or ▼ to highlight the video input source you want to label.
- 5 Press ◀ or ▶ to move the cursor to the **New Label** column, then press ▲ or ▼ to highlight a label for the input source.
- 6 Press ◀ or ▶ to highlight **Yes**, then press **OK/ENTER**. The label is changed.
- 7 Press **MENU** one or more times to return to the previous menu.
- 8 Press **EXIT** to close the menu.

Maintaining

Cleaning the cabinet

Wipe the front panel and other exterior surfaces of your TV with a soft cloth lightly dampened with lukewarm water. Never use a solvent or alcohol to clean your TV. Do not spray insecticide near your TV. Such chemicals may cause damage and discoloration to the exposed surfaces.

Troubleshooting

Problem	Solution
No picture or sound	<ul style="list-style-type: none"> • Check all cable connections. • Make sure that your TV is turned on.
Picture is OK, but no sound	<ul style="list-style-type: none"> • Check the volume level and mute setting.
Sound is OK, but no color	<ul style="list-style-type: none"> • Check the color control and adjust it. • Check the program's color features because it may be a black and white movie.
The picture has overlapped images	<ul style="list-style-type: none"> • Make sure that the antenna is installed correctly. If not, adjust the antenna towards the broadcasting station.
Picture has snow	<ul style="list-style-type: none"> • Check the antenna and its connection. If there are problems, correct them. If all connections are tight, the problem may be with a faulty antenna or cable. • Check car traffic or neon signs that may disrupt the image.
Stripes on picture	<ul style="list-style-type: none"> • Check for interference from other electronic devices, such as radios and televisions, and keep magnetic or electronic devices away from your TV.
Bad stereo or SAP sound	<ul style="list-style-type: none"> • A long broadcast distance or interference from radio waves can cause bad sound reception. Try changing the mode to Mono.
Remote control does not work	<ul style="list-style-type: none"> • Remove obstacles between the remote control and the remote control sensor on the front of your TV. • Point the remote control at your TV's remote control sensor. • Install fresh batteries.
"Unsupported Mode" appears on the screen	<ul style="list-style-type: none"> • Check the resolution and frequency of your computer, and adjust it to the optimum resolution for your TV: 1360 × 768 at 60Hz (NS-19E430A10) or 1920 × 1080 at 60Hz (NS-22E430A10).
"No Signal" appears on the screen	<ul style="list-style-type: none"> • Make sure that the cable is firmly connected to the computer and TV.
Image is not clear	<ul style="list-style-type: none"> • Adjust the phase control.
Image is not centered	<ul style="list-style-type: none"> • Adjust the horizontal control.
Picture has a few bright or dark dots	<ul style="list-style-type: none"> • A few bright or dark dots on an LCD screen are normal. It does not affect the operation of your TV.

Specifications

- Design and specifications are subject to change without notice.
- Weight and dimensions shown are approximate values only.

NS-19E430A10

LCD	Panel	19"-wide TFT LCD
	Resolution	1366 × 768
	Viewing angle (H/V)	170°/160°
	Contrast ratio	700:1 (typical)
	Brightness (cd/m ²)	200
Dimensions	With stand	17.9 × 13.2 × 6.6 in. (455 × 336 × 167 mm)
	Without stand	17.9 × 11.6 × 1.5 in. (455 × 295 × 38 mm)
Weight		10.14lbs (4.6kg)
TV	TV standard	ATSC/NTSC
	Tuning system	Electronic tuning system
	Frequency range	VHF/UHF
	Stereo	BTSC
	CATV	135 channels, QAM channels
Power	Input	12V DC
	Consumption (max.)	35 W
Sound	Output	3W×2
Terminals	AV INPUT	Video, S-Video, audio L/R
	COMPONENT INPUT	Y, Pb (Cb), Pr (Cr), audio L/R
	HDMI	HDMI IN
	VGA	VGA input, audio (mini jack)
	HEADPHONE	Mini jack
	Antenna in	F type
Operating conditions	Temperature	41°F ~ 95°F (5°C~35°C)
	Humidity	20%~80% RH
	Atmospheric pressure	86 KPa~106 KPa

NS-22E430A10

LCD	Panel	22"-wide TFT LCD
	Resolution	1920 × 1080
	Viewing angle (H/V)	170°/160°
	Contrast ratio	800:1 (typical)
	Brightness (cd/m ²)	200
Dimensions	With stand	20.6 × 14.7 × 6.6 in. (523 × 373 × 167 mm)
	Without stand	20.6 × 13.1 × 1.5 in. (523 × 334 × 38 mm)
Weight		12.35lbs (5.6kg)
TV	TV standard	ATSC/NTSC
	Tuning system	Electronic tuning system
	Frequency range	VHF/UHF
	Stereo	BTSC
	CATV	135 channels, QAM channels
Power	Input	12V DC
	Consumption (max.)	40 W
Sound	Output	3W×2
Terminals	AV INPUT	Video, S-Video, audio L/R
	COMPONENT INPUT	Y, Pb (Cb), Pr (Cr), audio L/R
	HDMI	HDMI IN
	VGA	VGA input, audio (mini jack)
	HEADPHONE	Mini jack
	Antenna in	F type
Operating conditions	Temperature	41°F ~ 95°F (5°C~35°C)
	Humidity	20%~80% RH
	Atmospheric pressure	86 KPa~106 KPa

Legal notices

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply within 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 to 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 antenna.
- 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 technician for help.

FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

DHHS and FDA safety certification

This product is made and tested to meet safety standards of the FCC, requirements and compliance with safety performance of the U.S. Department of Health and Human Services, and also with FDA Radiation Performance Standards 21 CFR Subchapter J.

RSS 310 statement

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Macrovision statement

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

ICES/BETS-7 Statements

Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

Canada ICES-003 statement

This Class B digital apparatus complies with Canadian ICES-003. Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

Two-year limited warranty

Insignia Products ("Insignia") warrants to you, the original purchaser of this new **NS-19E430A10/NS-22E430A10** ("Product"), that the Product shall be free of defects in the original manufacture of the material or workmanship for a period of two (2) years from the date of your purchase of the Product ("Warranty Period"). This Product must be purchased from an authorized dealer of Insignia brand products and packaged with this warranty statement. This warranty does not cover refurbished Product. If you notify Insignia during the Warranty Period of a defect covered by this warranty that requires service, terms of this warranty apply.

How long does the coverage last?

The Warranty Period lasts for 2 years (730 days) from the date you purchased the Product. The purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a retail store location, take your original receipt and the Product to the store you purchased it from. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from an online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain in-home warranty service for a television with a screen 30 inches or larger, call 1-888-BESTBUY. Call agents will diagnose and correct the issue over the phone or will have an Insignia-approved repair person dispatched to your home. Should the Insignia-approved repair person not correct the issue on the first call, an Insignia television (size and features to be determined by Insignia) will be loaned to you until your TV is repaired and returned, at no charge to you. This feature is only available to Insignia television consumers residing in the United States.

Where is the warranty valid?

This warranty is valid only to the original purchaser of the product in the United States, Canada, and Mexico.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as lightning strikes
- Accident
- Misuse
- Abuse
- Negligence
- Commercial use
- Modification of any part of the Product, including the antenna
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).

This warranty also does not cover:

- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage supply
- Attempted repair by anyone other than a facility authorized by Insignia to service the Product
- Products sold as is or with all faults
- Consumables, such as fuses or batteries
- Products where the factory applied serial number has been altered or removed

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. INSIGNIA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, LOST DATA, LOSS OF USE OF YOUR PRODUCT, LOST BUSINESS OR LOST PROFITS. INSIGNIA PRODUCTS MAKES NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE WARRANTY PERIOD. SOME STATES, PROVINCES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

Contact Insignia:

For customer service please call 1-877-467-4289
www.insigniaproducts.com

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