

Warning and Attention Symbols

You must be aware of safety when you install and use this system. This *User Guide* provides various procedures. If you do some of these procedures carelessly, you could injure or kill yourself or damage equipment or property. Some other procedures require special attention.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For Your Safety



Do not try to open the case of the receiver. There is risk of electrical shock, which may cause damage to the receiver and/or personal injury or death to you. There are no user-serviceable parts inside the receiver. Opening the receiver case or making unauthorized changes will void the warranty.



Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Important Software Notice

As with all software controlled products, unexpected behavior could arise if the user tries to perform operations in a non-routine manner. This product, like almost any other high tech product, is subject to bugs and hence EchoStar CANNOT AND DOES NOT GUARANTEE OR WARRANT THAT ALL FEATURES, SUCH AS PARENTAL CONTROL, WILL WORK AS INTENDED UNDER ALL CIRCUMSTANCES. EchoStar endeavors to improve such conditions and will periodically download improvements.

In compliance with the terms of the GNU Public License (GPL), EchoStar is making some source code available to the public to download from www.echostar.com.

Equipment and Software Covered by this User’s Guide

This *User Guide* covers the ViP®222k Receiver, and software model ViP222k. This *Guide* may cover other devices, not listed here.

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The information in this *User Guide* may change without notice. We may issue revisions to tell you about such changes.

Please send comments or questions about this *User Guide* to: *Technical Publications, EchoStar Corporation, 90 Inverness Circle East, Englewood, Colorado 80112.*

Part Number: 160200

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Important Safety Instructions

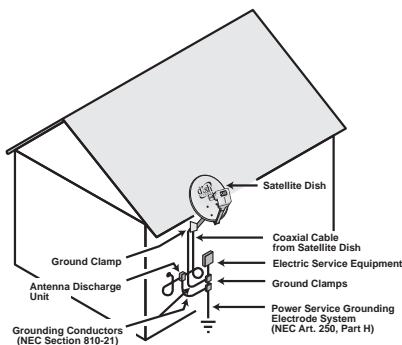
Safety

- 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 Use only attachments/accessories specified by the manufacturer.
- 12 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the 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.



Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Note to Satellite TV System Installer: This reminder is provided to call the satellite TV system installer's attention to Article 820-40 of the National Electrical Code (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.



- Operate the receiver using only the type of power source indicated on the marking label. Unplug the receiver power cord by gripping the power plug, not the cord. The power plug must be readily accessible so that the equipment can be easily disconnected from the AC power.
- Do not overload wall outlets or extension cords; this can result in a risk of fire or electrical shock.
- Never insert objects of any kind into the receiver through openings, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.
- Do not locate the antenna near overhead light or power circuits, or where it can fall into such power lines or circuits. When installing the antenna, take extreme care to avoid touching such power lines or circuits, as contact with them can be fatal.
- Do not attempt to service the receiver yourself, as opening or removing covers may expose you to dangerous voltage, and will void the Limited Warranty. Refer all servicing to authorized service personnel.

Proper Care of Your Equipment

- Always handle the satellite receiver carefully. Excessive shock and vibration can damage the hard drive.
- Unplug the receiver from the AC power outlet before cleaning.
- Always turn the receiver off, unplug it and let it sit for at least 30 seconds before moving it.
- The use of accessories or attachments not recommended by the receiver manufacturer will void the Limited Warranty.
- Do not place the receiver in an enclosure (such as a cabinet) without proper ventilation.
- Do not stack the receiver on top of or below other electronic devices as this can cause heat build-up and vibration.
- Do not install the receiver in any area where the temperature can be less than 40°F or more than 113°F. If the receiver is cold to the touch, do not plug it in immediately. Let it sit unplugged at room temperature for at least 45 minutes before plugging it in.
- Use an outlet that contains surge suppression or ground fault protection. During an electrical storm or when the receiver is left unattended and unused for long periods of time, unplug the power cord from the wall outlet, disconnect the lines between the receiver and the antenna, and disconnect the telephone line. This will provide additional protection against damage caused by lightning or power line surges.



On some TVs, the presence of fixed images for extended periods of time may cause them to be permanently imprinted on the screen. Consult your TV user guide for information on whether this is a problem for your TV, what operating/viewing restrictions apply to avoid this problem, and associated TV warranty coverage.



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Introduction



Chapter

Introduction to DISH Network Services

What you'll find in this chapter:

- **WELCOME**
- **HOW TO USE THIS USER GUIDE**
- **ABOUT YOUR DISH NETWORK ACCOUNT**
- **WATCHING TV NOW**
- **ADDITIONAL SERVICES**
- **ABOUT SATELLITE TV RECEPTION**
- **WHY CONNECT TO A PHONE LINE OR BROADBAND**
- **MOVING ON-SCREEN LOGO**

WELCOME

Thank you for choosing DISH Network. You are about to experience the excitement and convenience of our Direct Broadcast Satellite (DBS) service, which delivers the very best picture and sound quality. DISH Network consistently provides the latest products and satellite-delivered services—with high performance, ease of operation, and a wide variety of entertainment options.

Your new DISH Network receiver has two built-in satellite tuners supporting viewing in standard or high definition. In addition, an optional over-the-air tuner module is also available. After installing this optional module (see the “Over-the-Air Module Installation Instructions” that came with your optional module), you can watch programs on digital channels received over the air, selecting them from the Program Guide much the same way you do with satellite channels. Additionally, a host of other functions make your new receiver one of the most versatile and exciting devices in home entertainment.

This satellite receiver lets you decide how you watch TV. You can experience audio and video with full digital quality. You can create reminders for your favorite programs and not miss any of the action, or you can record a program on your VCR to watch later.

HOW TO USE THIS USER GUIDE

This section explains how the user guide is divided and the conventions used throughout.

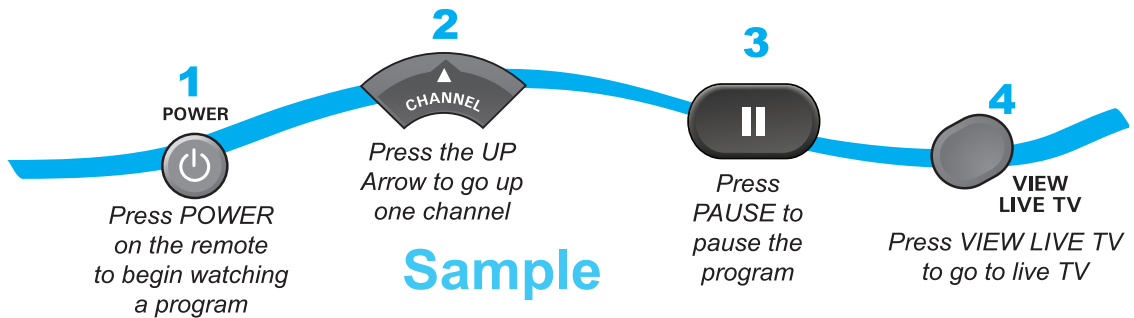
Guide Overview

The information in this guide is separated into several chapters to make it easy for you to find exactly what you're looking for:

- *Chapter 1: Introduction* gives you a brief overview of DISH Network and your new receiver.
- *Chapter 2: Receiver & Remote Controls* explains the basic features of your system and how to use the remote controls, front panel buttons, and back panel connections.
- *Chapter 3: Finding Programs to Watch* describes how to change channels and look for programs.
- *Chapter 4: Pay-Per-Programs* shows you how to order and watch Pay-Per-View and DISH On Demand programs.
- *Chapter 5: Favorites Lists* explains how to create, name, and use favorites lists.
- *Chapter 6: Locks* explains how to set locks and passwords.
- *Chapter 7: Interactive TV* describes how to use the Dish**HOME** Interactive TV features of your satellite TV system.
- *Chapter 8: Timers* describes how to set up and use timers and the timers list.
- *Chapter 9: Remote Control Setup* contains instructions for programming your remote to control your satellite receiver and equipment like a TV, VCR, or DVD player.
- *Chapter 10: Receiver Customization* shows you how to customize your receiver.
- *Chapter 11: Connections and Setup* explains how to connect your satellite receiver to your TV, as well as to other equipment like a VCR.

Guide Conventions

- The names of remote control buttons are all uppercase.
Example: Press SAT.
- Select means to move the highlight to an on-screen option or choice in a list and press SELECT on the remote control.
Example: Select the **Locks** option.
- This guide uses HD for high definition and SD for standard definition.
- Where this guide mentions the nearby TV, it is referring to TV1, the TV nearest the receiver. The nearby TV receives TV1 menus and programming from the receiver's TV1 outputs and is connected using short audio/video cables.
- Where this guide mentions the remote TV, it is referring to TV2, the cable-ready TV(s) located in a room away from the receiver. The remote TV receives TV2 menus and programming from the receiver's TV2 outputs through your in-home cable system.
- Where this guide mentions the remote control, it refers to either Remote Control 1 when viewing a nearby TV or Remote Control 2 when viewing the remote TV(s). If a specific remote control must be used, this guide will refer directly to Remote Control 1 or Remote Control 2.
- The instructions in this guide are shown in two ways:
 - Instructions in the form of pictures are handy if you'd like to learn something quickly. These instructions are numbered left to right as shown in the sample below.
 - Instructions that are written out are helpful if you'd like to learn more details.

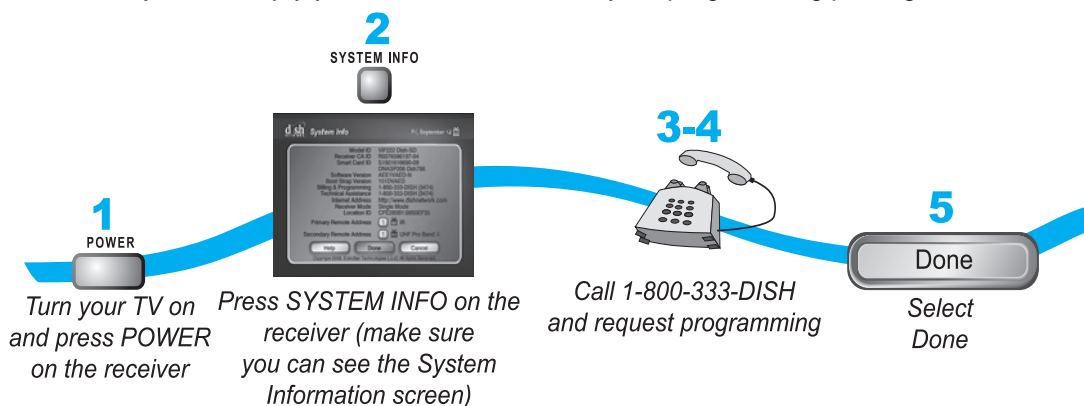


ABOUT YOUR DISH NETWORK ACCOUNT

This section describes how to order your packages and provides information on how to find information about your DISH Network account.

Ordering Your Programming Packages

Before you can enjoy your new receiver, order your programming packages.



- 1 Press **POWER** on the front panel to turn on the receiver.
- 2 Press **SYSTEM INFO** on the front panel to display the receiver's System Information menu on the nearby TV screen.
- 3 Call 1-800-333-DISH (3474) and tell the Customer Service Center the system has been installed and you would like to begin receiving services. A representative will explain the available program packages. Give the representative information from the System Information screen, as requested.
- 4 Your services will be turned on via the satellite signal. This process usually takes just a few minutes.
- 5 Select **Done**.

Where to Find Information on Your Account

If you want to know about charges to your DISH Network account or if you would like to make changes to your programming packages, be sure to have your account information handy and choose one of the following:

- Go to our website at www.dishnetwork.com/myaccount
- Press **MENU** on your remote control and then select **Customer Support**.
- Call DISH Network 1-800-333-DISH (3474).

Note: Additional authorization may be required before high-definition programming and/or over-the-air broadcasts can be viewed; additional fees may apply.

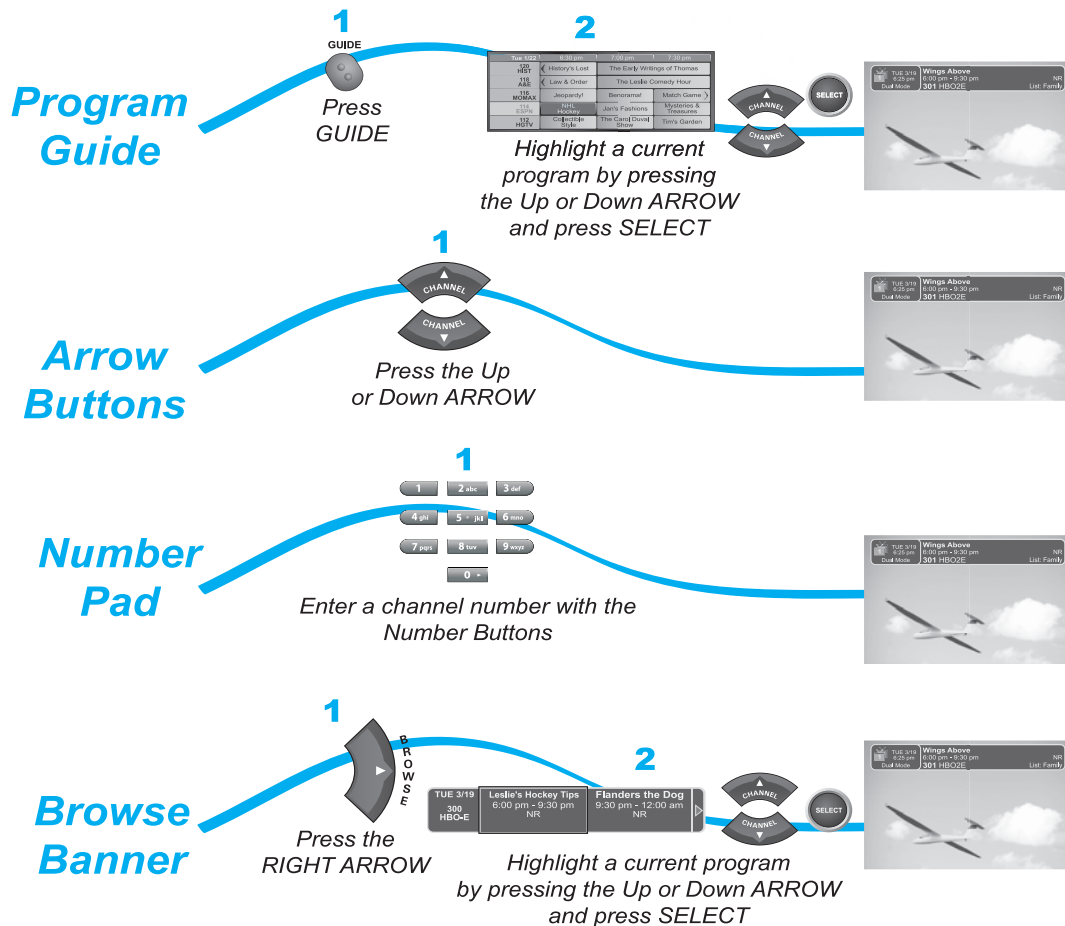
WATCHING TV NOW

After you have ordered your programming package, you can begin enjoying the features of your new satellite TV receiver. When you complete these simple tours, you'll be familiar with guide data and the remote control, and be able to find a program to watch.

Finding a Program to Watch

If you want to know more about watching TV, see *Chapter 3: Finding Programs to Watch* starting on page 23.

4 Ways to Find a Program



ADDITIONAL SERVICES

Pay-Per-View

Catch all the action on Pay-Per-View. Take a break from regular TV and order the latest movies, sports, and special events. For details on ordering Pay-Per-View events, see page 32. Be sure to connect your receiver to an active telephone line (see the instructions on page 94) or a broadband (high-speed) Internet connection (see page 95) before you order a Pay-Per-View event.

DishHOME

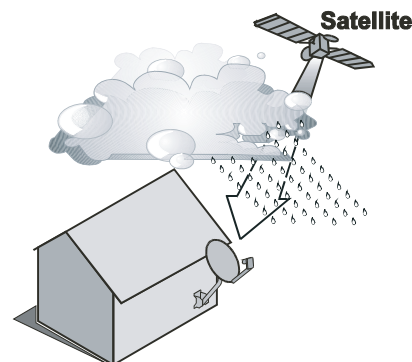
At DishHOME (press DISH on your remote control), you'll find news, sports, weather information, TV and movie buzz, customer service, games, and more.

ABOUT SATELLITE TV RECEPTION

Satellite television uses satellites in a stationary orbit over the Earth to deliver television and audio programming. This type of orbit enables the satellites to stay aligned over one place on the surface of the Earth. Once the satellite dish is aimed at the satellite, the dish does not have to move to follow it.

Rain and Snow Fade

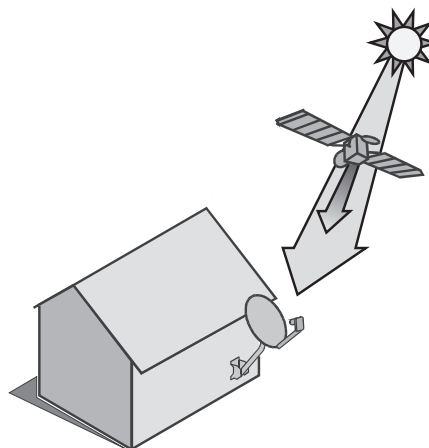
Heavy rain, snow, or dense cloud cover can reduce the satellite signal, which may interrupt your programming service. Your service will return after the weather condition has passed. Aiming the satellite dish to get the strongest signal during installation will help prevent rain and snow from interrupting the signal.



Solar Interference

Twice a year, the sun moves to a position behind the DISH Network satellites as they orbit the Earth. This event occurs during a few days at the beginning of the spring and the beginning of the autumn and lasts only a few minutes.

During these brief periods, you will not be able to see programs on DISH Network. When the sun has moved from behind the satellites, the programs will reappear. This is an unavoidable natural event and has an adverse effect on many satellite program providers.



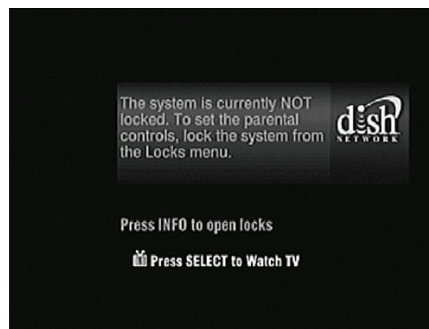
WHY CONNECT TO A PHONE LINE OR BROADBAND

Your satellite receiver is equipped with a standard telephone jack that you use to connect to an active telephone line. Keep the receiver connected to an active telephone line so that you will be able to order pay-per-view programs using your remote control, use all of the DishHOME Interactive TV features, and other services from DISH Network (see the instructions on page 94).

Your satellite receiver can be connected to your broadband home network. If your home network is configured to allow access to the Internet, this connection currently allows you to order pay-per-view programs using your remote control (if you do not connect a phone line to your receiver). See the connection instructions on page 95.

MOVING ON-SCREEN LOGO

Whenever the receiver is turned off using the remote control or front panel POWER button, you will see the DISH Network logo and helpful tips on your TV screen. This feature is included with your receiver to assure you that the connections between your receiver and TV(s) are not lost, and also provides useful information about your receiver and its features. Press POWER or SELECT on the remote control to resume watching satellite TV programming. Make sure you are using the correct remote for your TV-viewing location (see page 10 for details).



TIPS

- **Always have the latest software**—Turn off the receiver when you're not using it.
- **Order Pay-Per-View with your remote control**—Keep an active phone line or broadband network connected to the receiver. Not only will you have Pay-Per-View at your fingertips, but you'll also avoid unnecessary charges.

Chapter 1

Questions



QUESTIONS

- **How do I find something to watch?** Refer to page 5. For more information on finding something to watch, see *Chapter 3: Finding Programs to Watch*.
- **Why are some of the channels red in the Program Guide?** The channels that are red in the Program Guide are those which are not currently in your subscription. If you'd like to watch those channels, call 1-800-333-DISH (3474) or go to www.dishnetwork.com.
- **I'm looking at program information in a guide I bought at the grocery store, but nothing matches what's on my DISH Network receiver; is something wrong?** No. DISH Network programming may vary from what you'll find in a local publication. For best results, use the Program Guide on your receiver or order *DISH Entertainment Magazine*.

Receiver & Remote Controls



Chapter

2

About Your Satellite Receiver

What you'll find in this chapter:

- **SATELLITE RECEIVER OVERVIEW**
- **DUAL AND SINGLE MODES**
- **REMOTE CONTROL**
- **SATELLITE RECEIVER FRONT PANEL**
- **SATELLITE RECEIVER BACK PANEL**
- **USING THE ON-SCREEN MENUS**
- **USING TEXT FIELDS**

SATELLITE RECEIVER OVERVIEW

This section gives you an overview of your DISH Network satellite TV receiver system.

Satellite Receiver

This dual-tuner satellite receiver can view standard-definition (SD) and high-definition (HD) DISH Network programming on two TVs, or (with the optional over-the-air tuner module) view over-the-air digital/HD broadcasts on the nearby HDTV.

- **Nearby TV (TV1)**—Connect to an HDTV to view SD and HD DISH Network programming and (with the module) over-the-air digital/HD broadcasts. Programming from the receiver is delivered to the nearby TV using short audio/video cables.
- **Remote TV(s) (TV2)**—Connect to an SDTV to view SD and down-converted HD broadcasts. Programming from the receiver is usually delivered to the remote TV(s) using existing in-home coaxial cable.

Remote Controls

Two remote controls are included with your new receiver:

- **Remote Control 1** - An Infrared (IR) remote to control programming for the nearby TV (TV1). This remote control is labeled with a green number 1, which matches similar markings on the receiver output connections and the menus for the nearby TV.
- **Remote Control 2** - An Ultra-High Frequency Pro (UHF Pro) remote to control programming at a remote TV (TV2). This remote control is labeled with a blue number 2, which matches similar markings on the receiver output connections and the menus for the remote TV. Be sure to set up the remote control to operate the receiver (see page 57).

DUAL AND SINGLE MODES

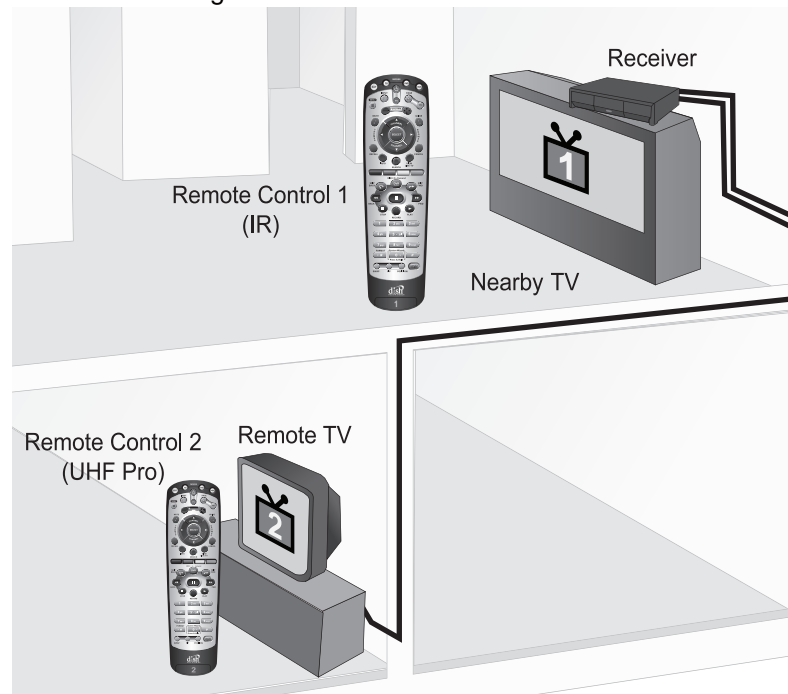
Your satellite receiver includes two modes of operation: Dual and Single. These modes increase your entertainment options because you'll be able to choose how you watch your favorite programs.

Dual Mode

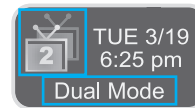
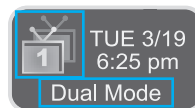
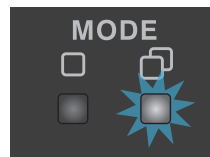
While in Dual Mode, you can use this dual-tuner satellite receiver to watch different programming in two separate locations:

- **Nearby TV**—Programming from the receiver is delivered to the TV near the receiver using short audio/video cables and is controlled using Remote Control 1. The nearby TV is also referred to as "TV1."
- **Remote TV**—Programming from the receiver is delivered to a TV located in another room using existing in-home coaxial cable and is controlled using Remote Control 2.

The video displayed on the remote TV is always in standard definition (SD). High-definition satellite programming (for example, on channels that display the HD markings) can be viewed on the remote TV; however, such programs are down-converted for viewing on the remote TV.

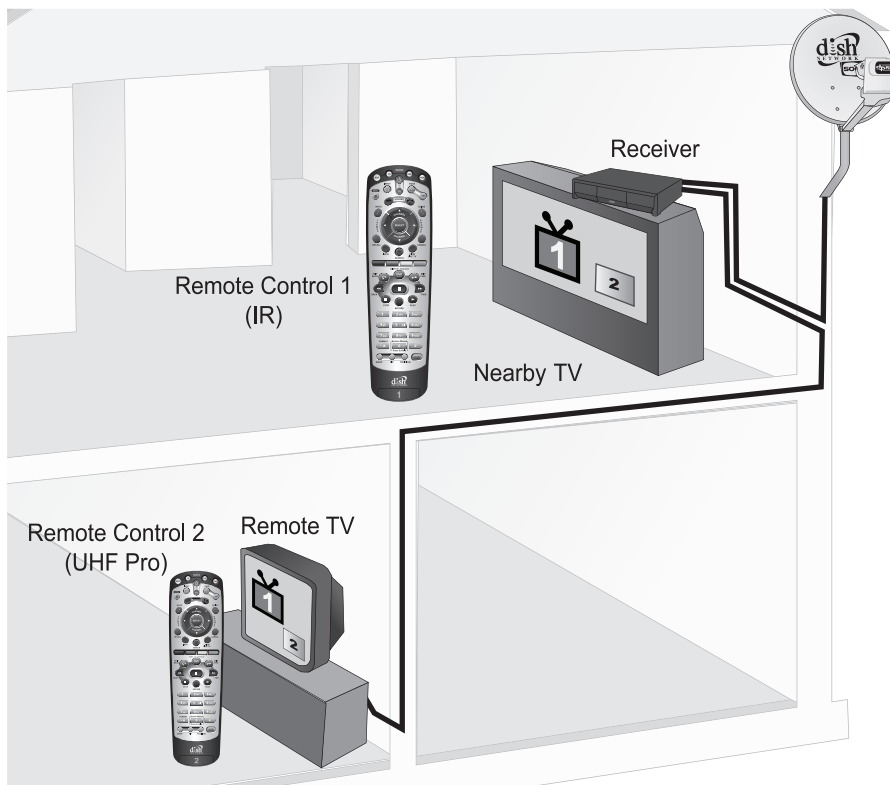


You can tell your receiver is in Dual Mode because the front panel mode indicator will light and the menu and other screens on both TVs will display Dual Mode (as shown below).

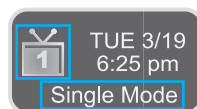


Single Mode

Single Mode provides the unique features of your dual-tuner receiver—like Picture-in-Picture (PIP)—to all connected TVs.





Single Mode delivers the same programming to all of the TVs connected to the satellite receiver and allows control by either remote control. The format of the programming shown on the remote TV(s) is standard-definition (SD); high-definition (HD) is shown only on the nearby TV. High-definition programming (for example, on channels displaying the HD markings) can be viewed at either TV location; however, such programs are down-converted for viewing on the remote TV. You can tell you are in Single Mode because the front panel mode indicator will light and the menus and other screens on both TVs will display Single Mode (as shown below).



Switching Between Dual and Single Mode

Put the satellite receiver in Single or Dual Mode by pressing the front panel MODE button. Keep the following items in mind when switching the satellite receiver between Dual and Single Mode:

	 Dual Mode	 Single Mode
Indications	Dual Mode front panel indicator lights.	Single Mode front panel indicator lights.
Favorites Lists	Favorites Lists set up for both outputs (TV1 and TV2) are available.	Only Favorites Lists set up for TV1 are available. The lists for TV2 are not lost, they are simply unavailable in Single Mode.
Locks	Locks set up for both outputs (TV1 and TV2) are available.	Locks set up for only TV1 are available. The locks for TV2 are not lost, they are simply unavailable in Single Mode.
Closed Captioning	Closed Captioning (CC) from SD and HD programming is available on TV1. CC from only SD programming is available on TV2 (CC must be enabled on the TV, as well).	Closed Captioning from the receiver is available on both outputs (TV1 and TV2).

Note: If you press the MODE button and someone is viewing a remote TV while the receiver is in Dual Mode, you will see a popup on the nearby TV warning you that you are about to disrupt the use of the TV2 outputs.

REMOTE CONTROL

The two remote controls give you access to all the features of your satellite receiver. You can set up each remote to control the satellite receiver and up to three other devices (see page 60). These devices can be a TV, a VCR or DVD player, and a third device.

This section describes how to use the various features on the two types of remote controls included with your satellite TV system.

Types of Remote Controls



Remote Control 1 uses infrared (IR) signals to:

- Control TV1 menus for the nearby TV in Dual Mode.
- Control the satellite receiver in Single Mode.

IR signals travel only short distances (40 feet or less), and cannot go through walls or other solid objects. You must point the remote control directly at the receiver, with no objects blocking the line of sight.

Remote Control 1 uses IR signals to control the receiver and other devices it is programmed to operate.

This remote control is identified by the green number 1 at the bottom of the remote control.



Remote Control 2 uses UHF Pro signals to:

- Control TV2 menus for the remote TV(s) in Dual Mode.
- Control the satellite receiver in Single Mode.

UHF Pro signals travel long distances and go through walls and other solid objects.

To use Remote Control 2 to control the receiver, you must attach the remote control antenna to the receiver back panel (see page 15).

Remote Control 2 uses IR signals to operate other devices programmed into the remote control. You must point the remote control directly at these devices, with no objects blocking the line of sight.

This remote control is identified by the blue number 2 at the bottom of the remote control.

Remote Control Batteries

The remote control comes with four AAA batteries. When you replace old batteries, you should replace all of the batteries. Use batteries of the same kind, for example, alkaline or carbon zinc. (Alkaline batteries last longer.) Don't mix batteries of different kinds.

- 1 Press down on the top of the battery cover and slide the cover off.
- 2 Take out all of the old batteries.
- 3 Put the new batteries in. Make sure you match the plus (“+”) ends with the plus markings on the battery case.
- 4 Slide the cover back into place.



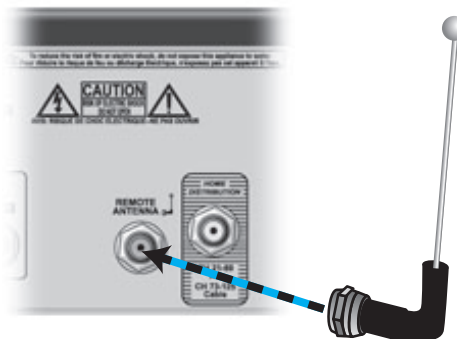
Low Battery Warning

When you see a low battery warning message on your screen below the Program Banner, the batteries in your remote control are weak and need to be replaced.



Attach the Remote Control Antenna

Attach the remote control antenna to the receiver's back panel **REMOTE ANTENNA** input so you can use your UHF Pro Remote Control 2. Without the remote control antenna, you cannot use the remote to control the receiver. See *Adjusting the Remote Control Antenna* on page 58 for more detailed information about improving the performance of your UHF Pro Remote Control 2.




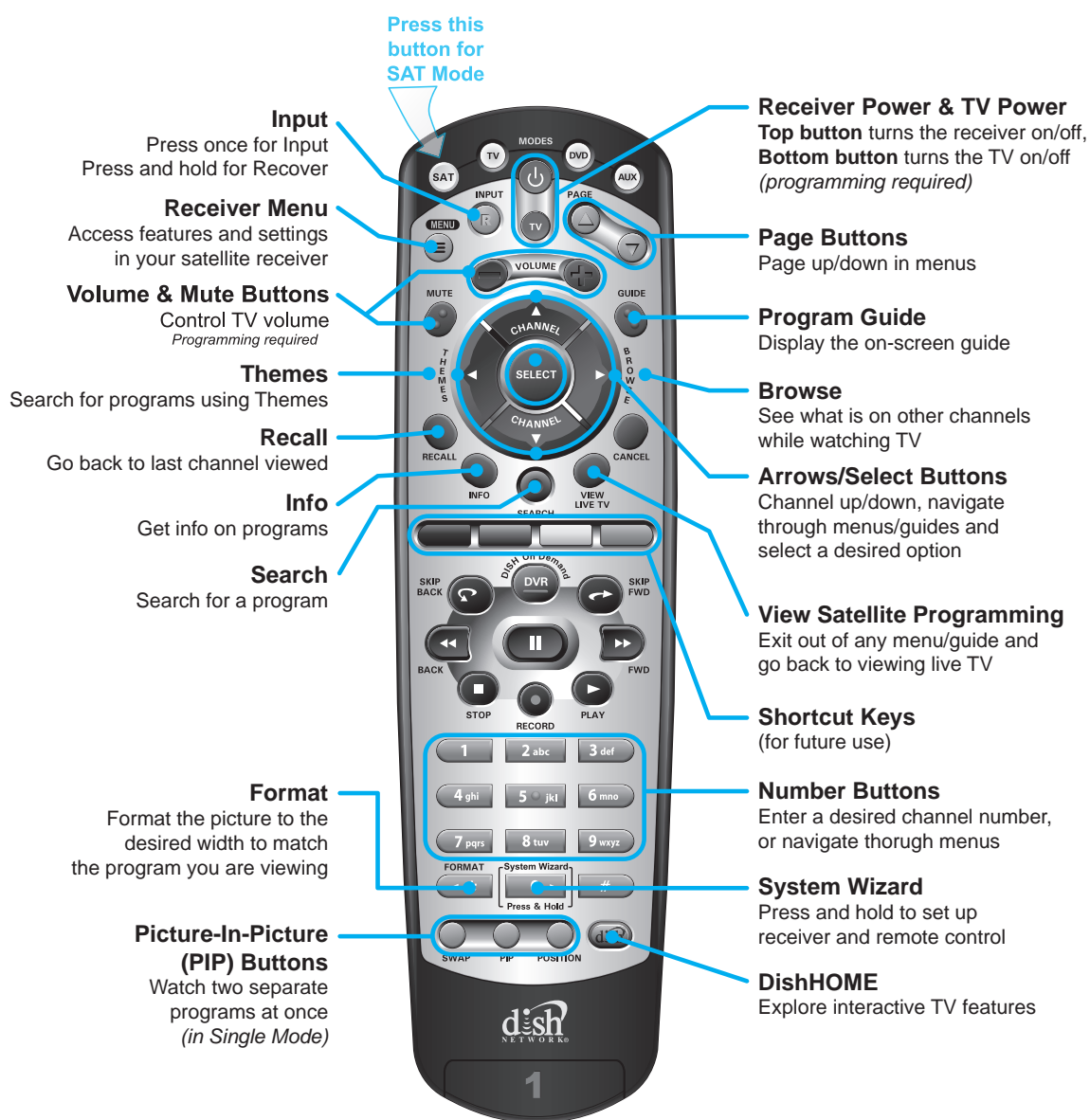
Chapter 2

Remote Control


Remote Control Buttons

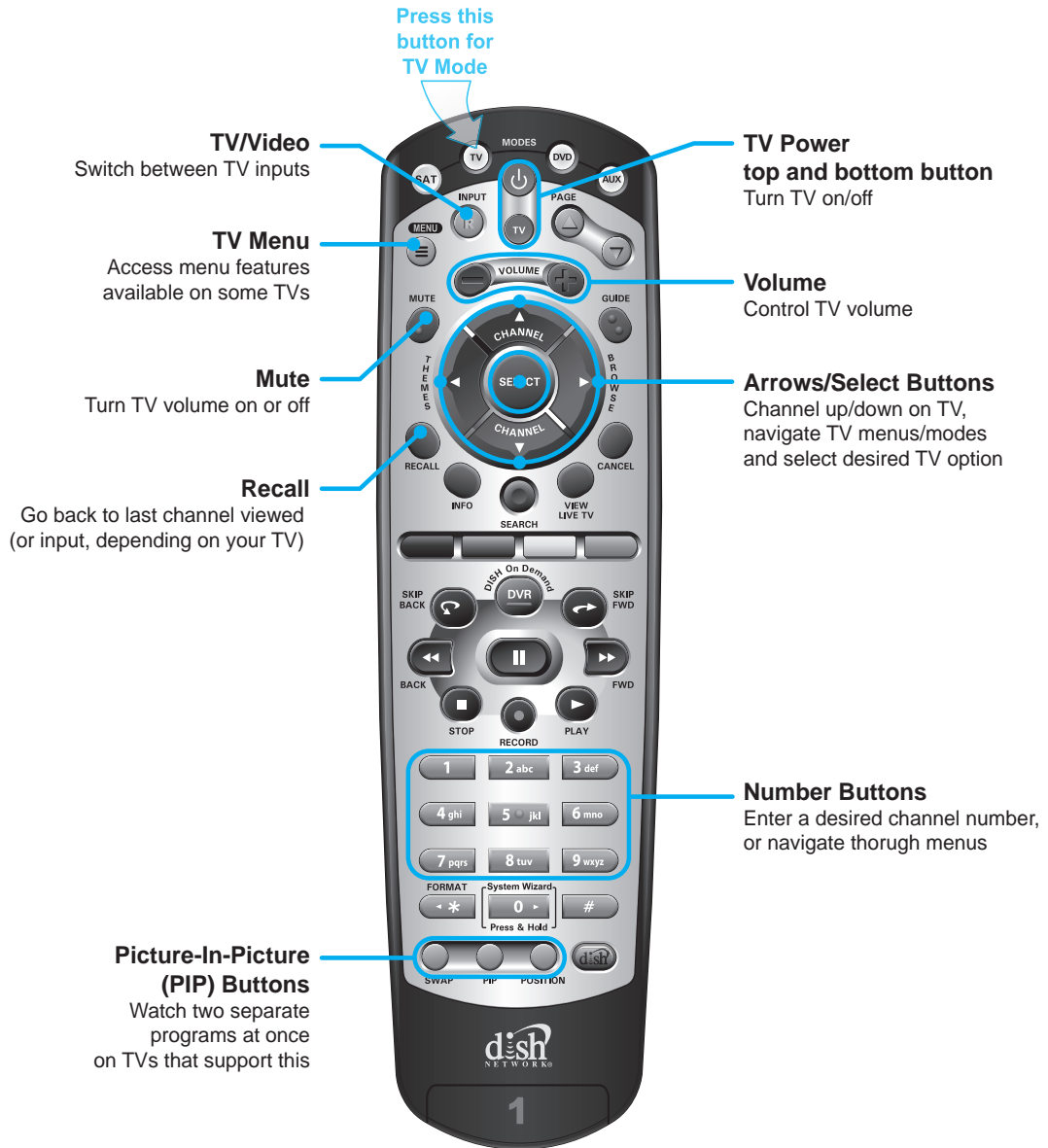
SAT Mode

To use the features described in this section, make sure you are in SAT mode by pressing the SAT Mode button. 



TV Mode

To use the features described in this section, make sure you are in TV mode by pressing the TV Mode button.  Remote programming is required.




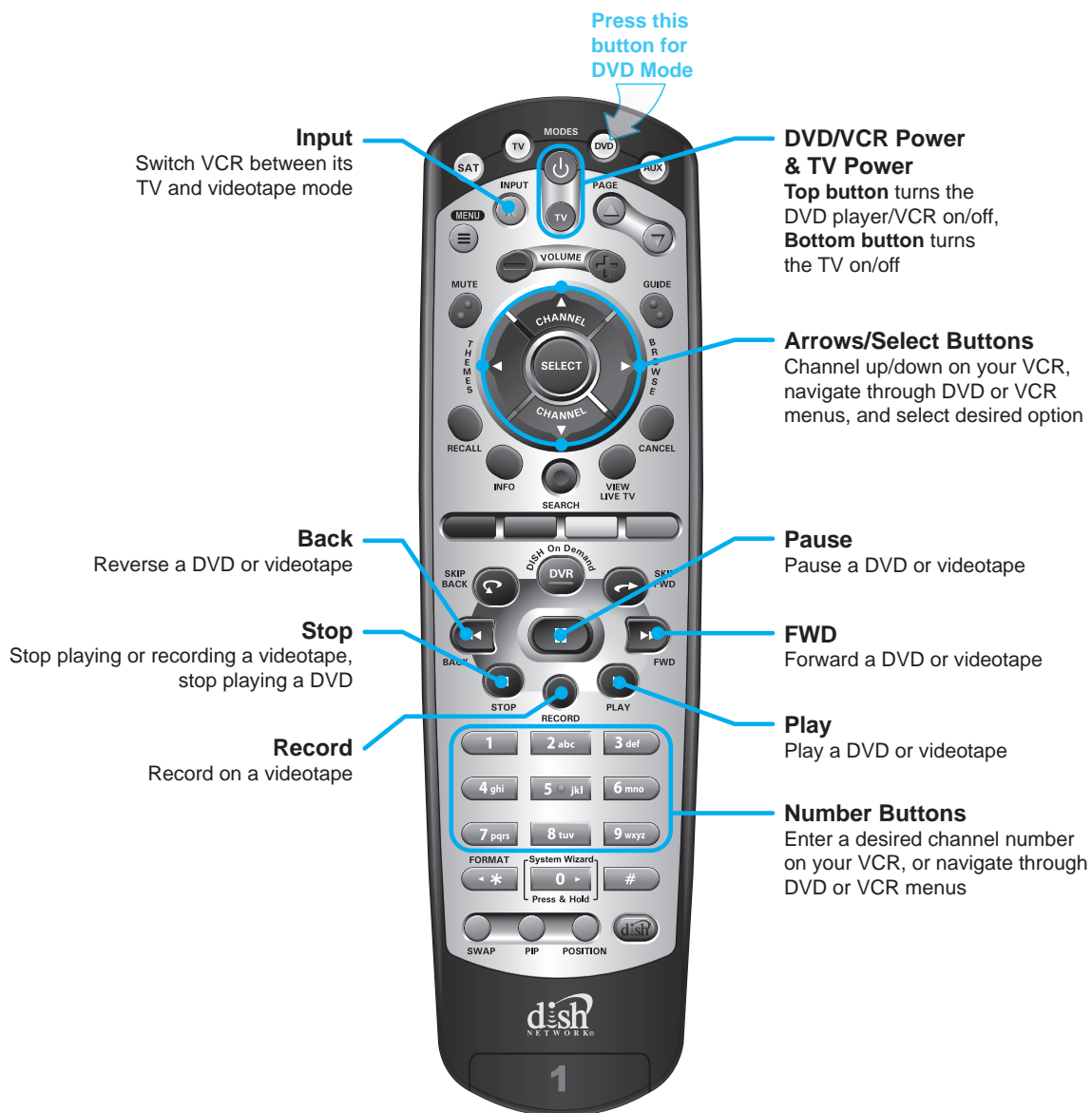
Note: Remote operation is different on DISH Network TVs. See your DISH Network TV User's Guide for proper operation.

Chapter 2

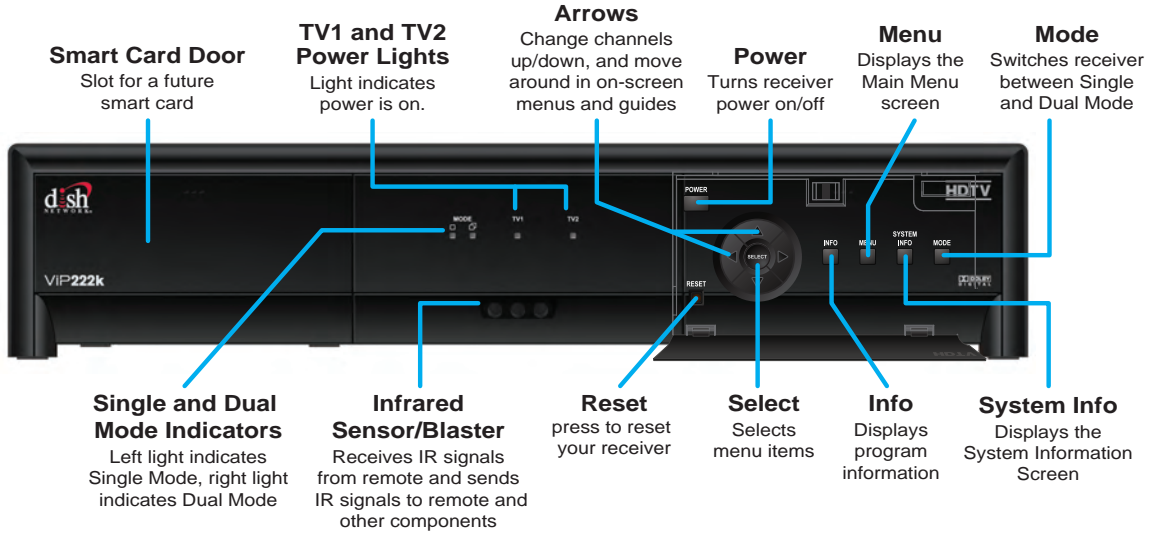
Remote Control

DVD Mode

To use the features described in this section, make sure you are in DVD mode by pressing the DVD Mode button.  You can also use this mode to operate a VCR instead of a DVD player. Remote programming is required.

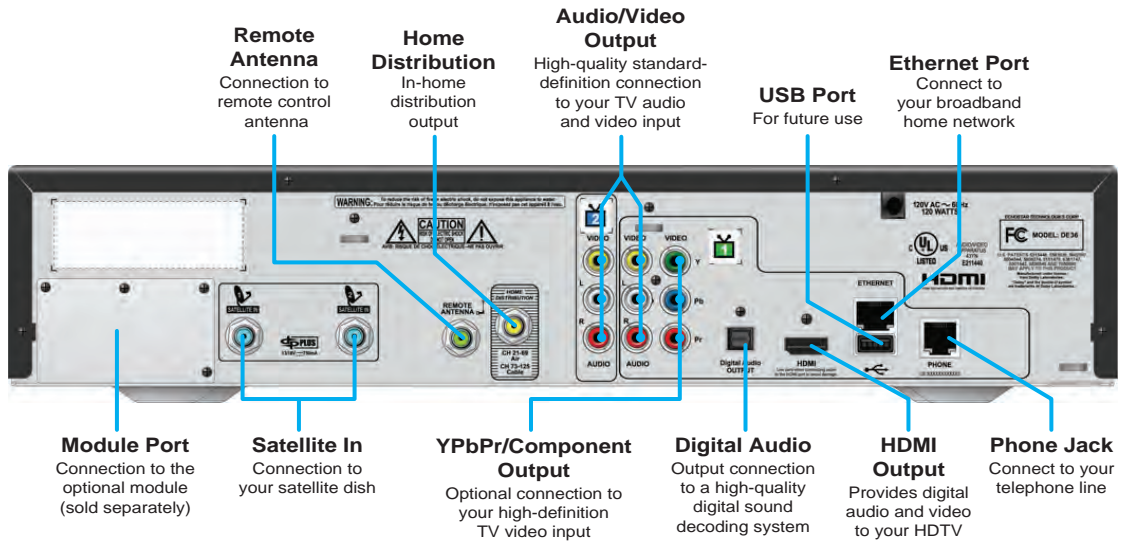


SATELLITE RECEIVER FRONT PANEL



Note: Your receiver may look slightly different than the unit shown above.

SATELLITE RECEIVER BACK PANEL



Note: Your receiver may look slightly different than the unit shown above.

USING THE ON-SCREEN MENUS

The menus make using the receiver and selecting programs quick and easy. Use the menus to control the receiver and to use its features, such as setting locks, choosing a program, or creating a favorites list.

Open and Close Menus

You can open the menus in either of two ways:

- Press MENU to open the Main Menu, then open any of the other menus from the Main Menu.
- Use the following buttons on the remote control:
 - Press GUIDE to open the Program Guide.
 - Press THEMES (LEFT ARROW) when watching a program to open the Themes and Search menu.
 - Press BROWSE (RIGHT ARROW) to display the Browse Banner.

To close a menu and return to watching a program, press VIEW LIVE TV.

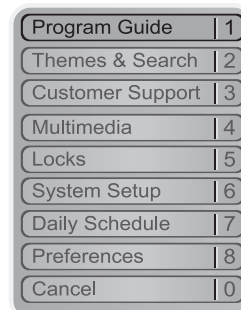
Highlighting Menu Options

Use the remote control ARROWS to move the on-screen highlight to the menu option. When you move the on-screen highlight, the option becomes orange.

Selecting Menu Options

When you select a menu option, that option takes effect right away. You can select a menu option in either of two ways:

- Move the highlight to the menu option using the remote control ARROWS. Then press SELECT. In the example, **Program Guide** is highlighted.
- If the option has a number next to it, press the number on the NUMBER PAD button that matches this number. When you use the NUMBER PAD, you do not need to highlight the option first.



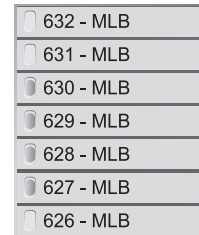
List of Choices in the Menus

When you make a choice in a list, the receiver does not apply the change until you select **Save** or **Done**. If you do not want to save any changes, select **Cancel** to discard all the changes made in the menu. There are two types of lists:

- A single choice list allows you to select only one choice at a time. If you select another choice, your previous choice is deselected.



- A multiple choice list allows you to select more than one choice at one time. If you select another choice, your previous choice(s) stays selected.



Canceling a Procedure

You can cancel a procedure in any of three ways:

- If you want to return to watching a program, press VIEW LIVE TV.
- If you want to return to the previous menu, press CANCEL.
- If you do nothing in the menu for a few moments, the menu will close automatically, discarding any changes you have made.

USING TEXT FIELDS

When you use features on the receiver, you might be required to enter information, such as the name of a movie when using Search, into areas known as text fields. Your receiver has two basic ways to enter the information:

- Virtual Keyboard
- Remote Control NUMBER PAD

Using the Virtual Keyboard

Use the virtual keyboard letters to type the information. Use the LEFT, RIGHT, UP, and DOWN ARROWS to navigate around the keyboard. Press SELECT to choose each character.



Using the Number Pad

Use the letters printed with the NUMBER PAD digits on the remote control—just like on some phones—while the highlight is in the field. For example, when looking for the channel and times to watch *Rudy Friml Presents*, you press 7 three times for an R, 8 two times for a U, 3 one time for a D, and 9 three times for a Y to spell the word “Rudy.”



While in the Text Field

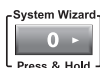
When the cursor is in the text field:



- Press the LEFT ARROW to delete characters.



- Press FORMAT/* to backspace without deleting characters.



- Press 0 to enter a blank space, such as between words.



- Use the RIGHT ARROW to forward space without deleting characters.



QUESTIONS

- **Why would I want to put the receiver in Single Mode?** When the satellite receiver is in Single Mode, you can use the PIP functions. See page 29 for more information.
- **How can I watch the same program on all of the TVs in my house?** Put the receiver in Single Mode (page 13) and then enable Shared View (page 74).



TIPS

- You can use the Front Panel Locks to prevent the mode from being changed accidentally. See page 45 for instructions.
- The only way to turn off the TV2 outputs is by pressing POWER on Remote Control 2.
- In Dual Mode, Remote Control 1 is used to control TV1 menus on the nearby TV. Remote Control 2 is used to control TV2 menus on the remote TV(s).
- If you would like to put the receiver in a remote location (such as a closet or cabinet), be sure to get the replacement remote control that uses UHF Pro signals to control TV1. Call your DISH Network retailer or go to www.dishnetwork.com, select Shop, and then click on Accessories.
- To use Remote Control 2, be sure to attach the Remote Control Antenna. See page 15 for details.
- On Remote Control 2, press FORMAT/* to change the aspect ratio (display shape) of HD channels displayed on remote TV(s).

Finding Programs to Watch



Chapter

3

Watching TV

What you'll find in this chapter:

- **CHANGING CHANNELS**
- **USING THE PROGRAM GUIDE**
- **USING THE BROWSE BANNER**
- **USING THEMES AND SEARCH**
- **USING PICTURE-IN-PICTURE**

Chapter 3

Changing Channels

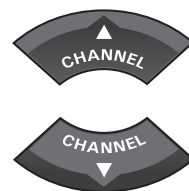
CHANGING CHANNELS

There are two basic ways to change the channel on your satellite TV receiver:

- Use UP and DOWN ARROWS on your remote control
- Enter a channel number with the NUMBER PAD

Using the Up and Down Arrows

While watching live TV, if you want to change the channels one at a time to see what's on, press the UP and DOWN ARROWS on your remote control. You can also change the channels the same way using the UP and DOWN ARROWS on the receiver front panel.



Entering a Channel Number

While watching live TV, if you know the specific channel you want to watch, enter the channel number using the NUMBER PAD on the remote control.



USING THE PROGRAM GUIDE

You can use the Program Guide to see what programs are on now, to change channels, and to set up timers for programs. To access the guide, press GUIDE.

Active Favorite List

The screenshot shows the Dish Network TV Guide interface. Labels point to various elements:

- Current Date & Time:** Points to the top left corner showing "dsh" and "List: Family 12:25 pm Wed 12/03".
- Program Information:** Points to the "NHL Hockey 6:30 pm - 7:00 pm NR" text.
- Program Date:** Points to the "Thu 12/04" header for the current day's schedule.
- Channels:** Points to the left column of channel numbers (120 HIST, 118 A&E, 116 GAME, 114 ESPN, 112 HGTV).
- Programs:** Points to the grid of program titles and times.
- Current Program:** Points to the "114 ESPN" logo and the "NHL Hockey" image.
- Program Times:** Points to the time slots (6:30 pm, 7:00 pm, 7:30 pm) at the top of the grid.

Channel	6:30 pm	7:00 pm	7:30 pm
120 HIST	History's Lost	The Early Writings of Travis	
118 A&E	Law & Order	The Rise of Jenny Alpine	
116 GAME	Jeopardy!	Match Game	Jenorama!
114 ESPN	NHL Hockey	Chicken Racing	Squirrelball
112 HGTV	Collectible Style	Fun With Leefie	

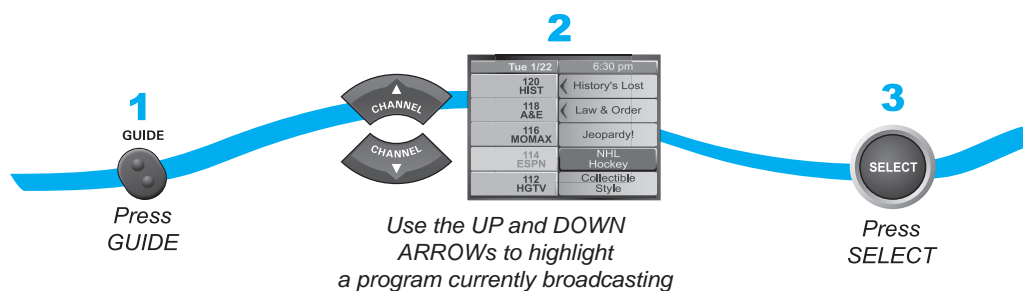
- A red background behind a channel usually means you have not subscribed to the channel. After you subscribe to a channel, you can watch it. To subscribe to a channel, visit our website at dishnetwork.com or call 1-800-333-DISH (3474).
- A yellow background behind a channel is for digital over-the-air channels. See page 99 for instructions to connect an over-the-air antenna to your new receiver using the optional, over-the-air tuner module (available separately).

Finding Programs to Watch

Using the Program Guide

3

- A green background behind a channel means that you can use SELECT on your remote control and add the channel to your existing subscription.
- The Program Guide shows which Favorites List is active. If All Chan is active, the Program Guide shows all the channels. The All Sub list shows only the channels in your subscription. The All HD list shows only the HD channels in your subscription. If you have set up another list, and then select it from the available lists by pressing GUIDE repeatedly, then the Program Guide shows only the channels on that list. See page 35 for information on Favorites Lists.
- The Program Guide shows programs on now and coming on within the next couple of days. The guide does not show programs that have ended.



While using the Program Guide, you can:

- Press PAGE UP/PAGE DOWN to move a page at a time.
- Enter the number of hours you want to skip, and then press the RIGHT/LEFT ARROW to move forward/back in the schedule.
- Press SKIP FWD/SKIP BACK to move forward or back a day at a time.

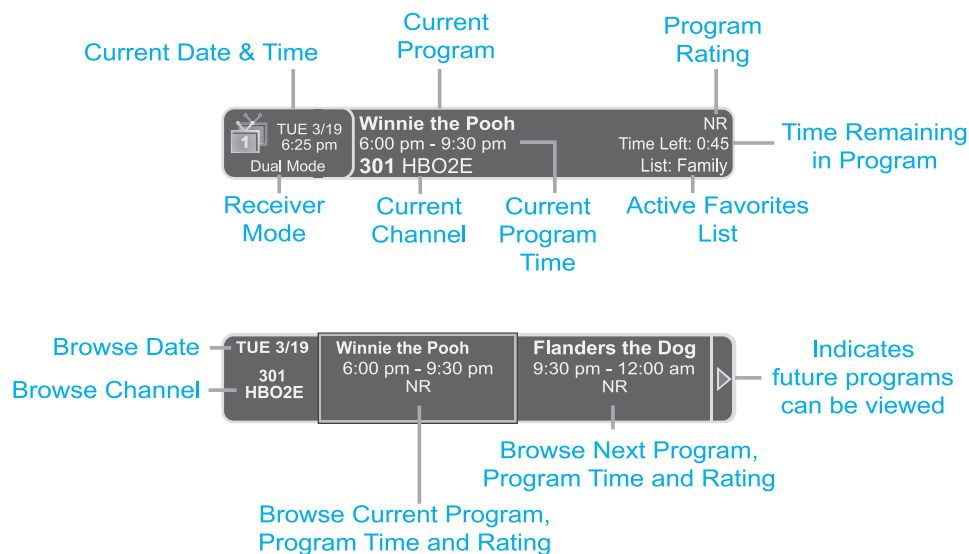
Note: You must be able to receive satellite programming from either the 119°W or 72.7° orbital location for the Program Guide to display up to two days of program information.

Chapter 3

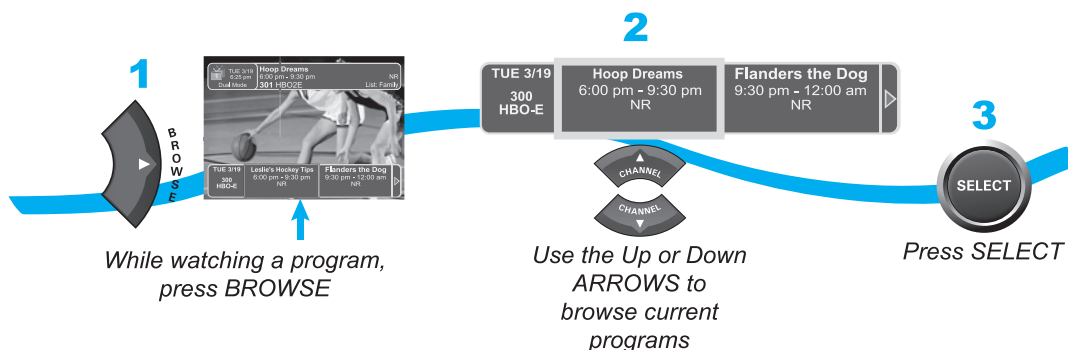
Using the Browse Banner

USING THE BROWSE BANNER

Use the Browse Banner to see what other programs are on while not missing the program you are watching.



When the Browse Banner is open, you will see the information from the Program Guide for the current program at the top of the screen, and on the left side of the Browse Banner at the bottom of the screen. At the bottom right of the screen is information on the program that is coming on next on the same channel.



USING THEMES AND SEARCH

Use the Themes and Search Feature to find exactly what you want to watch. This section shows you how to use Themes to find your favorite programs by their event type (for example, movies, sports, news), or by keyword search (for example, if you're looking for a particular actor's name or text in the program's description).

You can list programs by the theme of their contents, (for example, just movies or just sports). Use Themes and Search to quickly find programs based on:

- **Theme.** You can look for something to watch by the program's theme (Movies, News, Sports, etc.), which makes your search easier and your television viewing more enjoyable.
- **Keyword.** Use this selection if you want to be more specific (for example, actor or description). You can search for something to watch just by Keyword. This feature also categorizes programs on over-the-air channels (if an over-the-air antenna is connected to the receiver using the optional Over-the-Air module, as described on page 99). You can search for events two ways:
 - Select **Title** to search for the words that appear in the title of a program.
 - Select **Info** to search for words that are in the program description or title.

Enter the Keyword(s) in the Search Criteria Field in one of two ways:

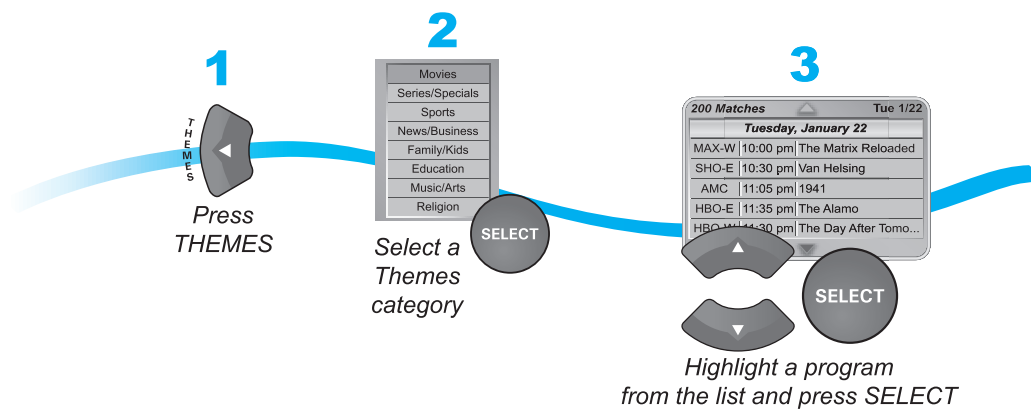
- Use the virtual keyboard.
- Use the letters on the NUMBER PAD.

Note: See page 21 for information on using these features.

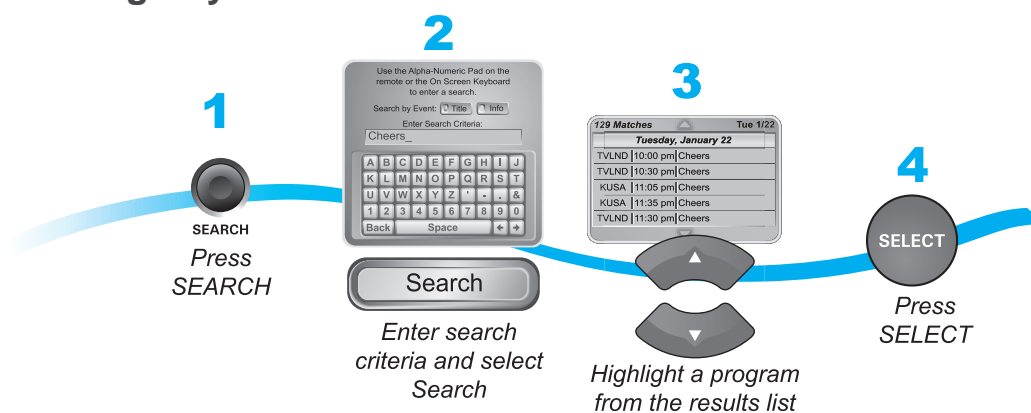
Chapter 3

Using Themes and Search

Using Themes



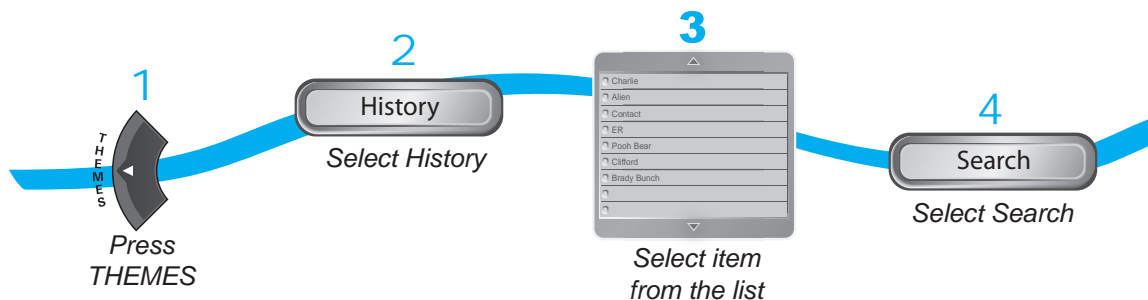
Using Keyword Search



Using History

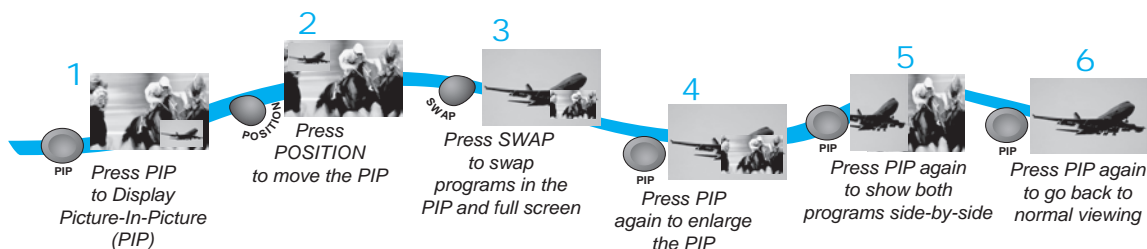
After you have searched for programs or keywords, your receiver keeps a history. In Dual Mode, TV1 and TV2 keep separate Search History information. In Single Mode, only TV1's Search History is available. You can use Search History to find programs without typing the information again.

Note: Use the **Edit** or **Delete** options to change or delete search keywords.



USING PICTURE-IN-PICTURE

Picture-In-Picture (PIP) lets you watch two programs at once while in Single Mode. The following instructions describe how to use PIP (see page 13 for instructions on changing to Single Mode).



TIPS

- Press INFO to get more information about the program you have highlighted.
- Press VIEW LIVE TV to cancel almost any screen and return to live TV.
- Press SWAP (without pressing PIP first) to switch between tuners in Single Mode.
- Press POSITION (without pressing PIP first) to display side-by-side programs in Single Mode.



QUESTIONS

- **How can I customize the Program Guide?** You can set up a Favorites List as described on page 37. You can change how the Program Guide is displayed (such as size of text, or number of programming hours displayed), and how your local or DishHD channels are displayed within the guide, as described on page 77.
- **Why are some of my channels missing?**
 - You may have locked or hidden the channels. See *Chapter 6: Locks* on page 41 for information on locking and unlocking the receiver, and *Hiding Adult Content or Locked Channels* on page 44 for information on showing or hiding certain channels.
 - You may have the wrong list showing in the Program Guide. Press GUIDE to open the Program Guide. Press GUIDE again, and you can select from the available Favorites Lists. Press GUIDE repeatedly to cycle through all the available lists. See *Chapter 5: Favorites Lists* on page 36 for more information.

Chapter 3

Questions

- **Which remote do I use?**
 - Dual Mode: Use Remote Control 1 for the nearby TV and Remote Control 2 for the remote TV.
 - Single Mode: Both remotes control the receiver.
- **Why isn't PIP working?** Your receiver is probably in Dual Mode. Press MODE on the front panel to put the receiver in Single Mode if you'd like to use PIP. See page 13 for instructions on Single Mode.

Pay-Per-Programs



Chapter

4

Available pay-per-programs

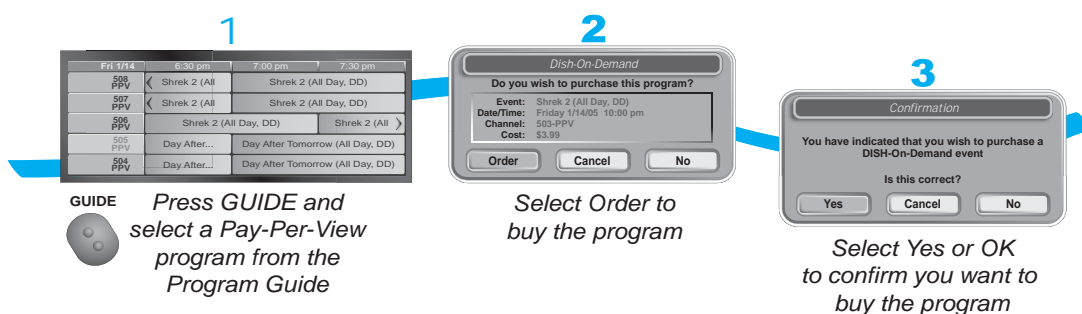
What you'll find in this chapter:

- **PAY-PER-VIEW**
- **CONSIDERATIONS**

PAY-PER-VIEW

To order Pay-Per-View programs using your remote control, you must connect the receiver to an active phone line or broadband Internet connection. After you order a Pay-Per-View program, you can watch it on all of the receivers on your DISH Network account. Using the remote control, you can order the exact same program for each receiver but you pay for the program only once. However, replays of programs are separate events. Go to dishnetwork.com/ppv for a description of the types of Pay-Per-View events.

Ordering a Pay-Per-View Program



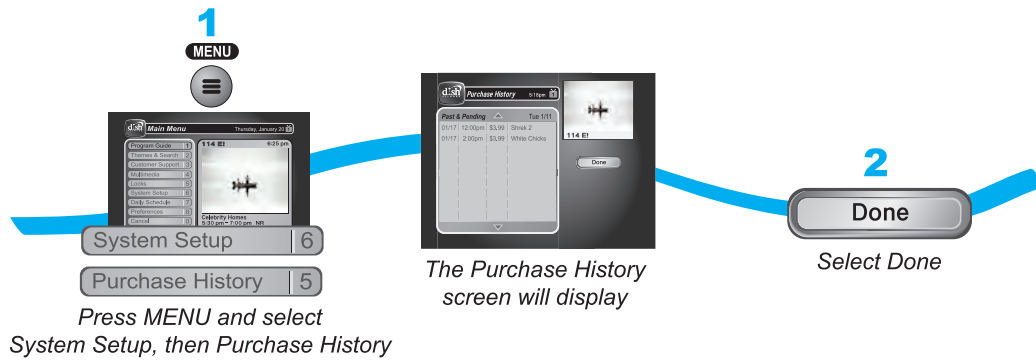
Note: Once you confirm an order for a Pay-Per-View program, you cannot cancel the order and you will be billed for it.

CONSIDERATIONS

Keep in mind these important considerations about pay-per-view types of programs.

- When you confirm an order for a program, you cannot cancel the order and you will be billed for it.
- You can use Locks to control the programs your family views. See *What are Locks?* on page 40.
- You can review what you have ordered during the last 30-60 days by looking in Purchase History. See *Reviewing Orders* on page 33.
- The programs you order will appear on your DISH Network bill.

Reviewing Orders



TIPS

- You can set up the receiver to tune automatically to Pay-Per-View programs. Refer to page 52 for more details.
- You can prevent others from purchasing Pay-Per-View programs by using locks (see page 44).
- Keep your receiver connected to an active phone line or broadband network so you can order Pay-Per-View programs with your remote control.



QUESTIONS

- **How can I order an event for all my receivers?**
 - Order on each receiver, one at a time with the remote control. For each receiver, make sure that it is connected to an active phone line or via a broadband Internet connection.
 - Order the event over the phone at 1-877-DISH-PPV (347-4778). Charges may apply.
 - Order the event online at www.dishnetwork.com/ppv.
 - Order the event over the phone at 1-800-333-DISH (3474). Charges may apply.

Chapter 4

Questions

- **I ordered a Pay-Per-View program but can only see it on one receiver.** Some Pay-Per-View programs are restricted to one receiver per account.
- **Will I be charged more than once for ordering the same Pay-Per-View on two or more receivers?** If you're using the remote control, you won't be charged more than once as long as it is the same exact event (for example, at the same time or All Day events).
- **Why doesn't my Program Guide show any Pay-Per-View channels?** You may be using a Favorites List that doesn't include Pay-Per-View channels. Press the GUIDE button repeatedly to open the Program Guide and then cycle through Favorites List options until you see All Chan highlighted in the pop-up window. Then press the SELECT button. See *Chapter 5: Favorites Lists* on page 35 for more information on using Favorites Lists. Also, you may have locked and hidden Pay-Per-View channels. See *Chapter 6: Locks* on page 39.
- **Why are some Pay-Per-View programs blacked out?** Sporting events and other programs are sometimes blacked out because of local restrictions.
- **Why did my all-day Pay-Per-View program shut off while I was watching it?** The all-day events run from 3 AM to 3 AM (Mountain Time).

Favorites Lists



Chapter

5

5

Setting Up Your Favorites Lists

What you'll find in this chapter:

- **WHAT ARE FAVORITES LISTS?**
- **CREATING OR CHANGING FAVORITES LISTS**
- **NAMING FAVORITES LISTS**
- **USING FAVORITES LISTS**

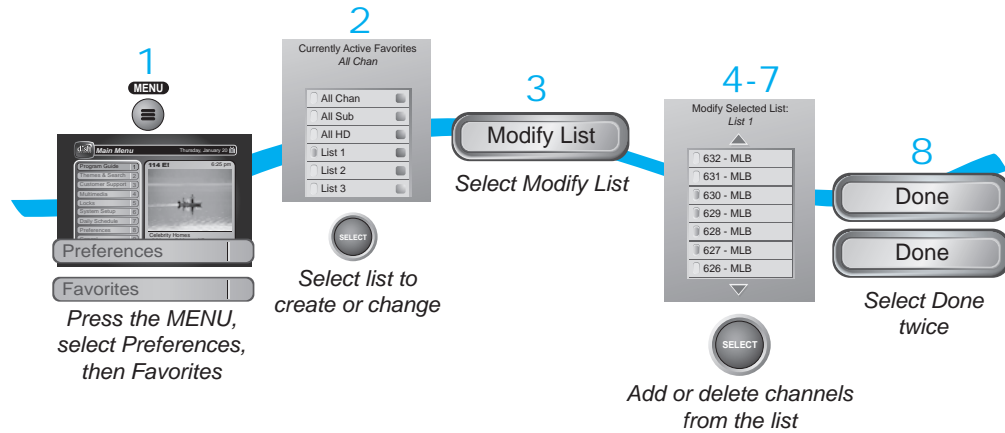
WHAT ARE FAVORITES LISTS?

Favorites Lists are custom lists of your favorite channels. You can create and change the lists yourself, adding and removing channels as you wish. Your favorite channels can be grouped in as many as four lists for TV1 and four lists for TV2 (in Dual Mode).

- When using a Favorites List, the Program Guide and Browse Banner display only the channels in that Favorites List. Also, when you use the remote control UP or DOWN ARROW to change channels, the receiver skips channels that are not on the list. Unlisted channels are still accessible by entering the channel number directly.
- The All Chan list contains all the channels, including channels not in your current subscription. You cannot make any changes to the All Chan list.
- The All Sub list contains all the channels in your subscription. You cannot make any changes to the All Sub list, except by changing your subscription.
- The All HD list contains all of the HD channels in your subscription.
- Each Favorites List has a unique color in the Program Guide. You can give each list a name. When you first get the receiver, the four lists are named List 1, List 2, List 3, and List 4. The lists are empty until you add channels to them.
- When you put the receiver in Single Mode, the Favorites Lists for only TV1 are available. However, when you go back to Dual Mode, the Favorites Lists for TV2 are available again.
- If you choose a program using Themes or by entering a channel number using the remote control, the receiver tunes to the channel for that program whether or not that channel is on the active Favorites List.
- You can include over-the-air channels in your Favorites Lists if an over-the-air antenna is connected to the optional tuner module installed in the receiver's Expansion Port. See page 99 for instructions on connecting an over-the-air TV antenna.

CREATING OR CHANGING FAVORITES LISTS

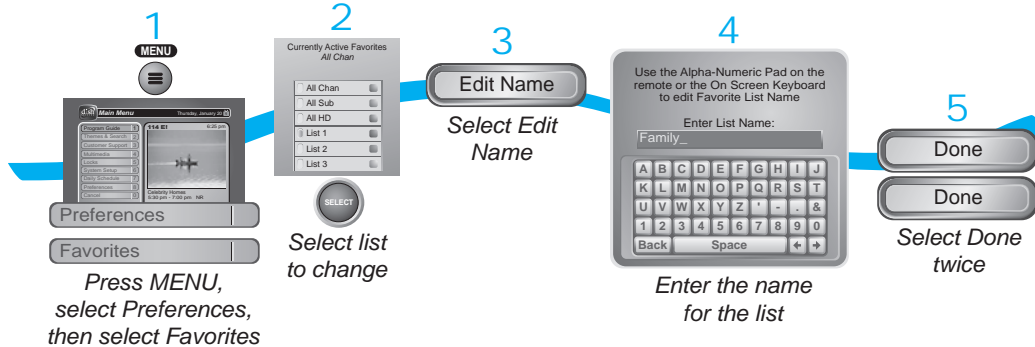
You can create, add channels to, and remove channels from a Favorites List. When you use your Favorites List only those channels in the list are shown in the Program Guide and Browse Banner.



5

NAMING FAVORITES LISTS

You can name your Favorites Lists whatever you want, up to eight characters long.



USING FAVORITES LISTS

Press GUIDE to open the Program Guide. Press GUIDE again to use a different list of the available Favorites Lists. Press GUIDE repeatedly to cycle through all the available lists, and then SELECT to select a list.



TIPS

- Two lists cannot have the same name. For example, on TV1, you cannot have two lists named “Dad’s List.” However, TV1 and TV2 can have lists with the same names.
- While in the program guide, press GUIDE to switch to a different Favorites List including lists to which you may have added channels. If you have not created a Favorites List, pressing GUIDE repeatedly cycles through the All Chan, All Sub, and All HD Lists.
- When you put the receiver in Single Mode, the Favorites Lists for TV2 are not available. However, when you go back to Dual Mode, the Favorites Lists for TV2 are available again.
- Locked and hidden channels do not display in Favorites Lists.



QUESTIONS

- **Why are channels missing from the Program Guide?**
 - You might have a Favorites List that does not contain those channels. Press GUIDE until the receiver displays the All Chan, All Sub, or All HD list.
 - You might have channels locked or hidden. See *Chapter 6: Locks* on page 41 for information on locking and unlocking the receiver, and *Hiding Adult Content or Locked Channels* on page 44 for information on showing or hiding certain channels.
- **Why are TV2’s Favorites Lists missing?** When the receiver is in Single Mode, TV2’s Favorites Lists are not available. When you go back to Dual Mode, the Favorites Lists for TV2 are available again.

Locks



Chapter

6

Securing Your Receiver and Account

6

What you'll find in this chapter:

- **WHAT ARE LOCKS?**
- **CREATING OR CHANGING A PASSWORD**
- **LOCKING AND UNLOCKING YOUR RECEIVER**
- **CREATING OR CHANGING A PASSWORD**
- **CREATING OR CHANGING CHANNEL LOCKS**
- **LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS**
- **HIDING ADULT CONTENT OR LOCKED CHANNELS**
- **LOCKING OR UNLOCKING THE FRONT PANEL**

WHAT ARE LOCKS?

Locks allow you to password-protect programming based on ratings, or on a channel-by-channel basis. When you have locked the receiver:

- If you try to access a locked item or open the Locks menu, the receiver displays a message asking you to enter the password.
- The receiver permits three attempts to enter the correct password. If you fail to enter the correct password, the receiver does not allow you to try again for several minutes.
- If you enter the correct password, you can access the locked item or open the Locks menu.
- If you exit a locked item or close the Locks menu, you must enter the password to access the item.
- If you want to enable the TV1 Out on the Modulator Setup screen (see page 74), you must enter the password to continue.
- When the receiver is in Single Mode, TV2's locks are not available. See *Switching Between Dual and Single Mode* on page 13.

Locks for programming on the nearby TV are set using the TV1 menus. Locks for programming on the remote TV(s) are set using the TV2 menus. Locks set for TV1 programming are separate from locks set for TV2 programming. The information in this chapter applies to locks set by either TV1 or TV2 menus.



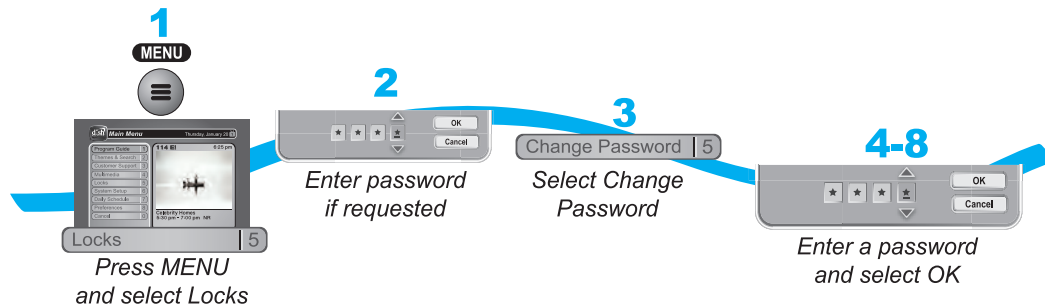
When you unlock programming delivered through the **HOME DISTRIBUTION** output to your in-home cabling system, you are allowing all TVs connected to your in-home cabling system to have access to this programming. In this case, you must rely on the V-Chip technology and settings in the individual TVs to prevent viewing of inappropriate programming. Consult your TV user's guides for instructions to set up V-Chip protection.

Locking the receiver is a two-step process:

- 1 Create the locks that you want. Available locks types are:
 - Ratings Locks—locks programs based on ratings.
 - Channel Locks—locks channels regardless of content.
 - Lock PPV—prevents unauthorized pay-per-view or on demand ordering.
 - Hide Adult or Hide Locked—hides adult channels or locked channels from being displayed in the Program Guide and other channel lists.
 - Front Panel Lock—prevents the front panel buttons from being used.
- 2 Lock the receiver. When the receiver is locked, anyone who wants to access locked items must enter the password.

CREATING OR CHANGING A PASSWORD

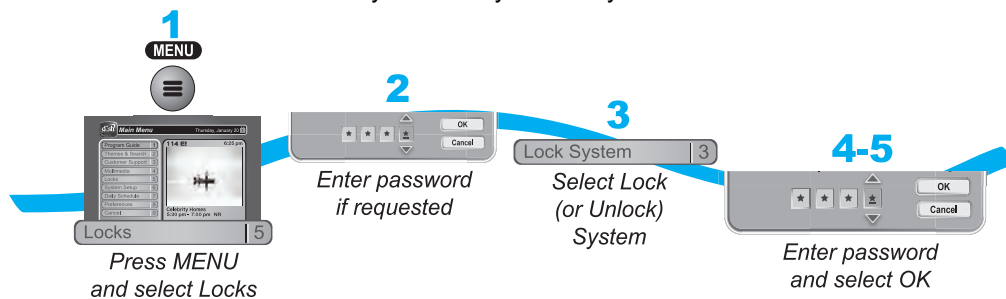
Set up your password before using the receiver locks.



- 1 Press MENU and select **Locks**.
- 2 If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 If you are changing an existing password, then select **Change Password**. If you are creating a password for the first time, then select **Lock System** and go to step 6.
- 4 Enter the current password using the NUMBER PAD. Select **OK**.
- 5 Press SELECT.
- 6 Enter the new password using the NUMBER PAD. Select **OK**.
- 7 Enter the new password again for confirmation, using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 8 Memorize the new password. From now on, enter this password to lock or unlock the receiver. If you forget your password, you will need to speak with a Customer Service Representative.

LOCKING AND UNLOCKING YOUR RECEIVER

You must lock the receiver for any receiver locks you set to take effect. Locking the receiver also locks TV1's modulator output (see page 74). To lock the receiver, you must first create a password. (See *Creating or Changing a Password* on page 41.) Be sure to refer to this section whenever you set any lock on your receiver.



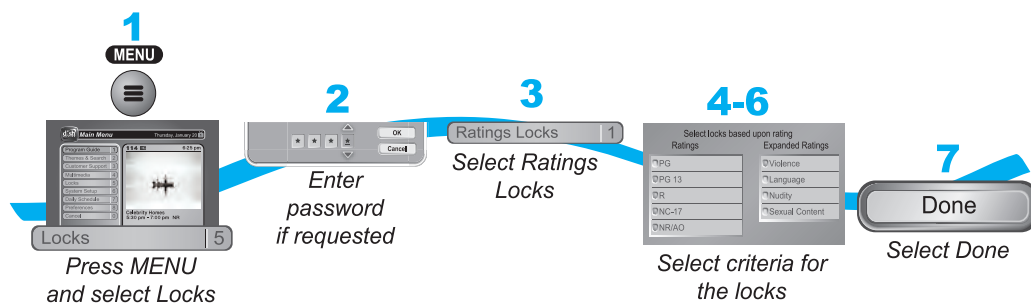
Chapter 6

Creating or Changing Ratings Locks

- 1 Press MENU and select **Locks**.
- 2 If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 Select Lock System or Unlock System. If you are locking the receiver, the receiver displays a message prompting you to enter a password.
- 4 Enter a password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 5 Confirm the password by re-entering it. Select **OK**. All the locks you have set are now in effect.

CREATING OR CHANGING RATINGS LOCKS

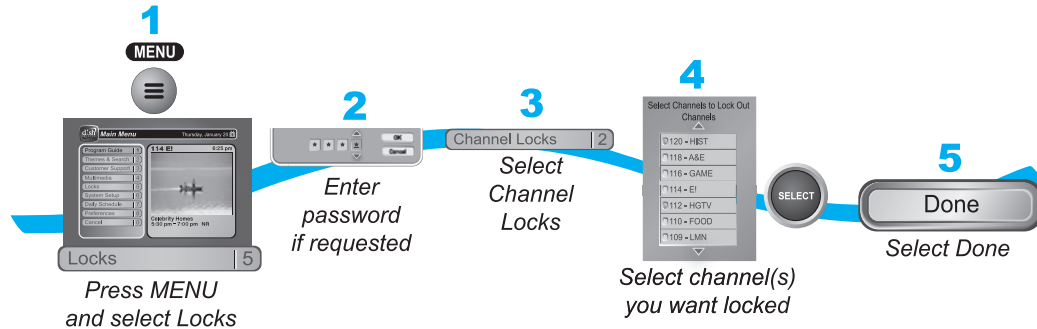
You can lock programs based on Motion Picture Association of America (MPAA) ratings (PG, PG-13, etc.) and expanded ratings (violence, language, etc.).



- 1 Press MENU and select **Locks**.
- 2 If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 Select **Ratings Locks**.
- 4 Highlight the least restrictive rating that you want to block. Press SELECT to lock the highlighted rating and all ratings more restrictive than it (for example, locking PG-13 automatically locks R, NC-17 and NR/AO).
- 5 Select the expanded rating code(s), if you want to also lock these ratings.
- 6 To unlock a rating code, select the code.
- 7 Select **Done**. Make sure the receiver is locked as described on page 41.

CREATING OR CHANGING CHANNEL LOCKS

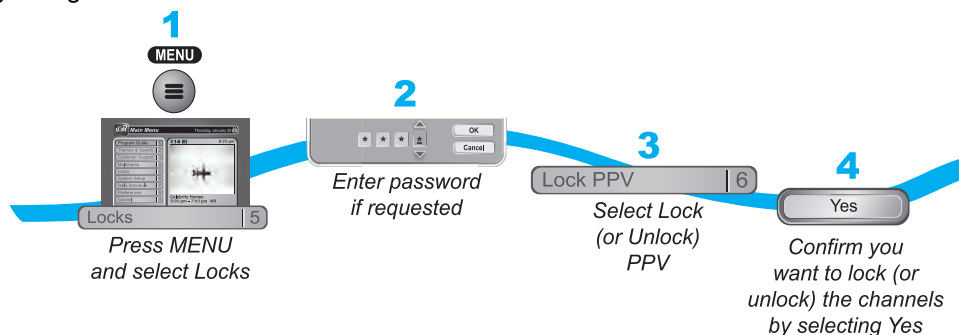
You can lock any channel, including satellite Pay-Per-View channels and over-the-air channels (if you are using the optional Over-the-Air module with an over-the-air antenna attached; see page 99 for instructions).



- 1 Press **MENU** and select **Locks**.
- 2 If the receiver is locked, enter the password using the **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 Select **Channel Locks**.
- 4 Highlight and select each channel that you want to lock or unlock. Press **UP** or **DOWN ARROW** to highlight the channel. You can also move to each channel number using the **NUMBER PAD**. If the checkbox next to the channel has a checkmark, the channel is locked.
- 5 Select **Done**. Make sure the receiver is locked as described on page 41.

LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS

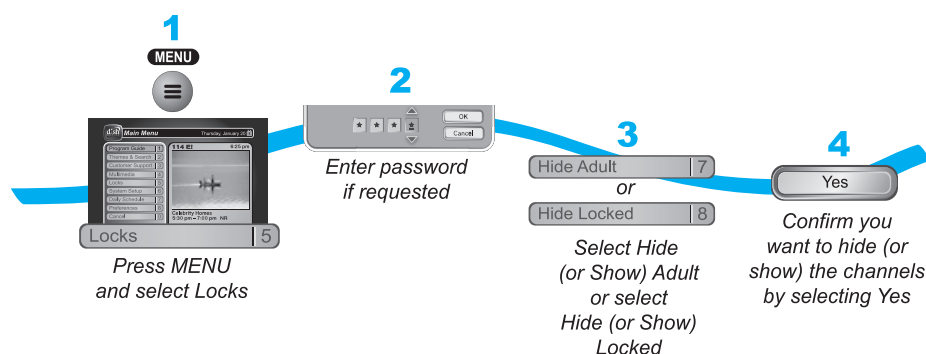
This locks all Pay-Per-View channels. You also can lock individual Pay-Per-View channels by using channel locks.



- 1 Press **MENU** and select **Locks**.
- 2 If the receiver is locked, enter the password using the **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 Select **Lock PPV** or **Unlock PPV**.
- 4 Select **Yes**. Make sure the receiver is locked as described on page 41.

HIDING ADULT CONTENT OR LOCKED CHANNELS

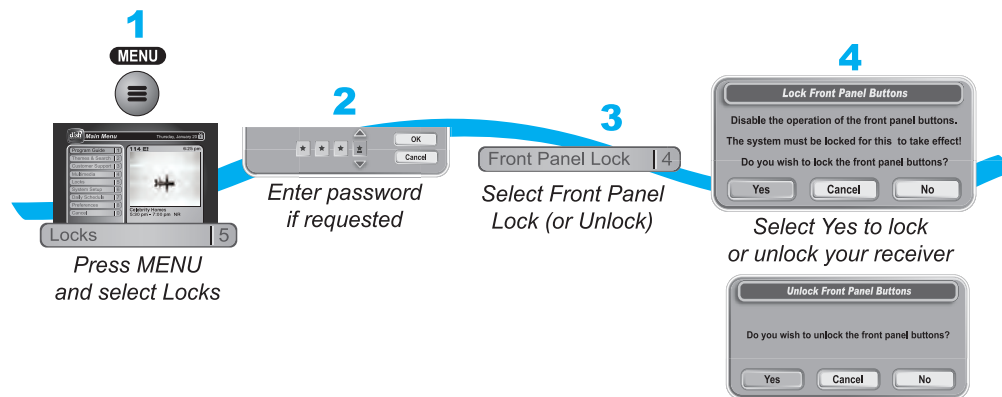
When you hide adult channels or locked channels, you prevent the Program Guide, Themes lists, and the Browse Banner from displaying adult channels. It also prevents anyone from choosing these channels by using the **UP** or **DOWN ARROWS** or the remote control **NUMBER PAD**.



- 1 Press **MENU** and select **Locks**.
- 2 If the receiver is locked, enter the password using the **NUMBER PAD**. Select **OK**.
- 3 Select **Hide** (or **Show**) **Adult** or **Hide** (or **Show**) **Locked**.
- 4 Select **Yes**. Make sure the receiver is locked as described on page 41.

LOCKING OR UNLOCKING THE FRONT PANEL

This lock keeps anyone from using the front panel buttons unless they enter the correct password, but it does not lock the remote control buttons. This option is only available on TV1 menus.



- 1 Press **MENU** and select **Locks**.
- 2 If the receiver is locked, enter the password using the **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 Select **Front Panel Lock** to lock or unlock the front panel.
- 4 Select **Yes**. To activate the Front Panel Lock, you must lock the receiver—make sure the receiver is locked as described on page 41.



TIPS

- If the receiver displays a message prompting you to enter a password, the receiver is locked.
- If you want to unlock the receiver or any specific lock, use the password for the TV output you're watching. For example, use TV1's password to unlock TV1's locks and TV2's password for TV2's locks.
- When you lock a rating, you also lock all other more restrictive ratings. For example, if you lock PG-13 rated programs, then all programs with the R, NC-17, and NR/AO ratings are also locked.



QUESTIONS

- **Why didn't a lock I set take effect?** You have to lock the receiver for any lock you set to take effect. See page 41 for details.
- **Why don't the locks I set for TV2 work?** The locks you set on TV2 are not available in Single Mode.
- **What do I do if I forget my password?** If you forget your password, you will need to speak with a Customer Service Representative.

Interactive TV



Chapter



Interacting With Your TV

What you'll find in this chapter:

- **DISHHOME INTERACTIVE TV**
- **CUSTOMER SERVICE**

Chapter 7

DishHOME Interactive TV

DISHHOME INTERACTIVE TV

Press DISH on the remote control or go to channel 100 to view the DishHOME features available with your service. You can order channels, check the news and weather, and even play games. Make sure you connect an active phone line to your receiver. You can enjoy this feature on one TV at a time.



CUSTOMER SERVICE

An important feature of your satellite TV receiver is Customer Support. This menu provides convenient access to your DISH Network account to review your statement, pay your bill, upgrade programming, and more. Make sure you connect an active phone line to your receiver.

Press MENU and then select **Customer Support**.



TIPS

- Whenever you want to exit an interactive feature and return to watching programming, press VIEW LIVE TV and you'll be taken to the last channel you were watching.
- You can also get to Customer Support from DishHOME.

Timers



Chapter

8

Setting Up and Using Timers

Have you found yourself having to make a choice between watching your favorite shows and living your life away from television? This chapter shows you how to set up to record future programs on a VCR so that you'll never miss your favorite shows.

- **TIMERS**
- **USING THE TIMERS LIST**
- **SETTING UP AN AUTOMATIC TIMER**
- **SETTING UP A MANUAL TIMER**
- **DELETING A TIMER**

Chapter 8

Timers

TIMERS

A timer is your instruction telling the satellite receiver the programs you want to view in the future. For most VCR timers, you select a specific program on a specific channel, and tell the satellite receiver how often you want to record that program. Be sure to set up the receiver to control your VCR (see page 98).

Timer Types

There are three types of timers:

- **VCR** — Records an event on a previously inserted tape for later viewing. Make sure you have your VCR connected and turned on when using this type of timer. Also, be sure the timer is set up on TV1 so that the receiver can tell the VCR (via an IR signal) to start/stop recording.
- **Auto Tune** — Automatically changes the channel for live viewing of the event.
- **Reminder** — Creates an on-screen reminder when the event is about to air.
- **Ext** — Records an event to an externally connected recording device, such as a PocketDISH. See page 51 for instructions on how to enable this feature.

Timer Frequency

Deciding how often you want to watch a program will help you make the best choice:

- **Once** — Records a program once (good for movies, sporting events, etc.).
- **Weekly** — Records a program once a week, at that time, on that channel.
- **Daily** — Records a program once a day, every day, at that time, on that channel.
- **Monday-Friday** — Records a program once a day, Monday through Friday, at the selected time, on that channel.

Timers List

Use the Timers List as described on page 52 to:

- View the general list of timers.
- Create a Manual timer.
- Edit a timer.

When a Timer Starts a Recording



For two minutes before a timer starts a recording, the receiver may display a digital countdown on the TV screen. This symbol disappears when the program begins. While the symbol is displayed, you may do one of the following:

- Press CANCEL to clear the symbol from the TV screen. This does not stop the timer from starting.
- Press INFO or SELECT to see more information on the timer. If you do this, you have the following choices:
 - Select OK to continue with the timer.
 - Select Stop Timer to stop the timer.

Note: Pressing INFO about a timer event only works one time. Subsequently pressing INFO results in the current program's information being displayed in the normal way.

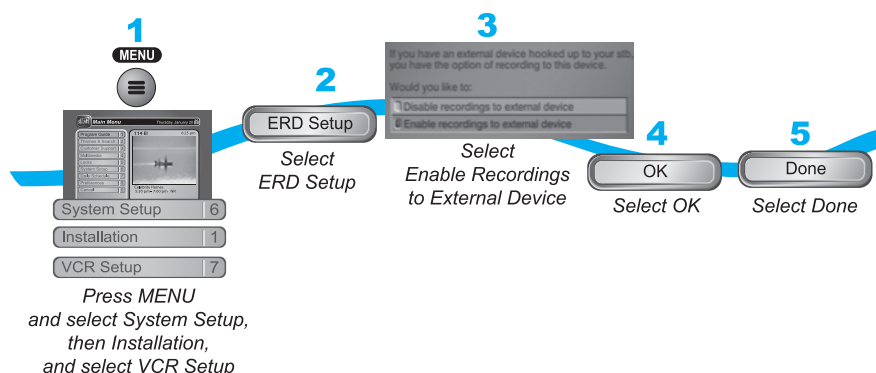
When the Receiver is Off

If the receiver is off (no green front-panel lights) when a timer is scheduled, the receiver will:

- **VCR** — Turn on to record the event on TV1. Make sure you have your VCR turned on and a tape inserted when using this type of timer.
- **Auto** — Turn on for the event.
- **Reminder** — Turn on at the scheduled time. After a period of time, if you do nothing, the receiver will turn OFF.
- **Ext** — Records the event on an external recording device (ERD) connected via USB port.

Enabling ERD

You can record your favorite shows on an external recording device, such as a PocketDISH or ARCHOS Gen 5 device, by using the ERD feature. Make sure the feature is enabled, as follows:



Chapter 8

Using the Timers List

Special Considerations When Using Timers

- **For Locked Programs** — You must enter the receiver password before you can create an automatic timer. You can create a manual timer for a locked program without entering the password. However, if you do this, when the timer operates, the receiver may display only an error or password entry menu.
- **For Pay-Per-View Programs** — You must order a Pay-Per-View program when you create a timer for it.
- **For Blacked Out Programs** — If you set a timer for a program that is blacked out in your area, when the timer operates the receiver may display only an error message.

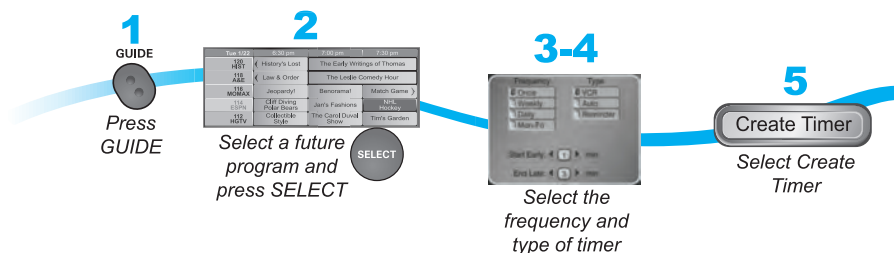
USING THE TIMERS LIST



- 1 Press MENU and select Timers (7).
- 2 When the Timers screen opens, you can edit or delete the timers you have set.

SETTING UP AN AUTOMATIC TIMER

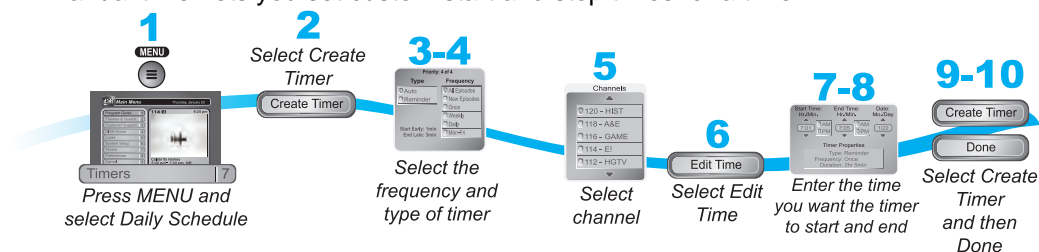
You can create an automatic timer for a future event. The following instructions explain the simplest way to set up an automatic timer.



- 1 Find the future program you want to record using the Program Guide or Browse Banner. The program can be a satellite or over-the-air program (if you are using the optional over-the-air tuner module with an antenna attached; see page 99 for instructions on connecting an over-the-air antenna). Note that this feature may not work with all over-the-air channels.
- 2 Select the future event. The Create Timer screen displays.
- 3 Select the Timer Frequency (see page 50 for more details).
- 4 Select a Timer Type (see page 50 for more details).
- 5 Select Create Timer to finish making the new timer.

SETTING UP A MANUAL TIMER

A manual timer lets you set custom start and stop times for a timer.



- 1 Press MENU and select Timers (7).
- 2 Select Create Timer.
- 3 Select the Timer Frequency (see page 50 for more details).
- 4 Select a Timer Type (see page 50 for more details).
- 5 Select the channel (satellite or over-the-air). Use the UP/DOWN ARROWS, PAGE UP/DOWN, or NUMBER PAD to find the channel.
- 6 Select Edit Time.
- 7 Set the Start Time and End Time. Include AM/PM for each.
- 8 Set the Date.
- 9 Select Create Timer.
- 10 Select Done.

Chapter 8

Deleting a Timer

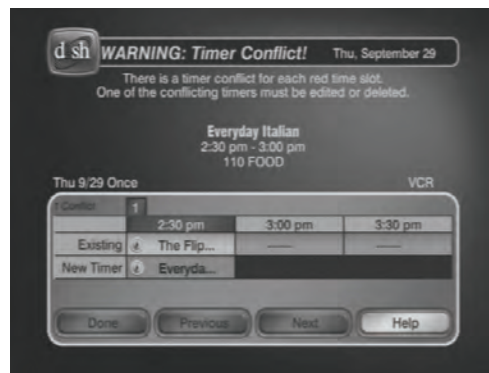
DELETING A TIMER

When you no longer need a timer, you can delete it.



OVERLAPPING TIMERS

If you try to create event timers for overlapping programs, the receiver displays a screen with the dates and times of both programs. The receiver also displays this screen if a program time has changed, causing one timer to overlap another. You must delete or edit one of the timers.



TIPS

- It's very important to leave the receiver enabled to receive updates so that the receiver can have the latest software and Program Guide information. Make sure the Updates feature is enabled as described on page 82.
- Be sure to set up the receiver to control your VCR (see page 98).
- If your VCR does not respond to the receiver's commands, see if you accidentally left the protective film on the receiver's front panel.

Remote Control Setup



Chapter

9

Personalizing Your Remote Controls

What you'll find in this chapter:

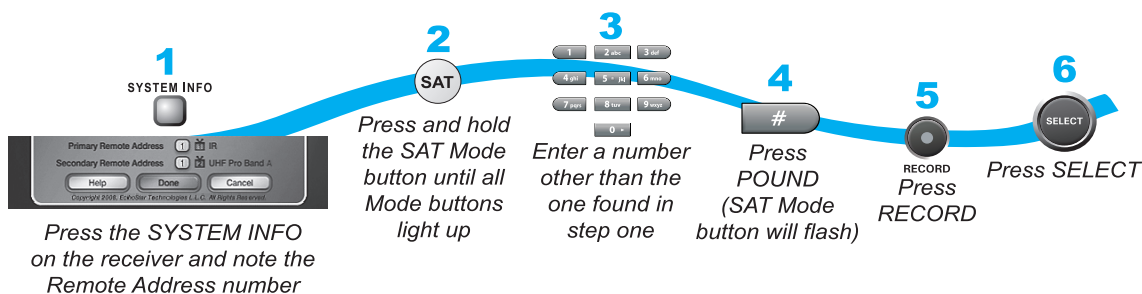
- **IMPROVING RECEIVER CONTROL**
- **CONTROLLING OTHER COMPONENTS**
- **SETTING UP BY LEARNING FROM ANOTHER REMOTE**
- **USING THE SYSTEM WIZARD**
- **THE RECOVER BUTTON**
- **SENDING DISCRETE POWER ON AND OFF**

IMPROVING RECEIVER CONTROL

These instructions help you improve your remote control settings to best operate your satellite receiver.

Changing the Address for Remote Control 2

Because UHF signals travel long distances and go through walls, a neighbor's remote may control your receiver by mistake. To keep this from happening, you can change the remote address. You can also use these instructions to change the address on Remote Control 1.



- 1 Press SYSTEM INFO on the receiver's front panel. The System Information screen displays on the nearby TV and shows the Remote Address.

Write down the Secondary Remote Address: _____

If changing the address for Remote Control 1, write down the Primary Remote Address: _____

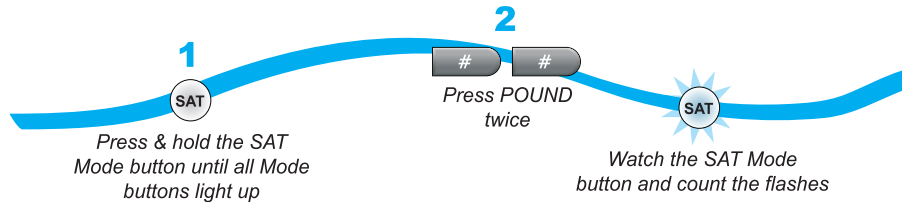
- 2 Press and hold SAT on your remote control for about three seconds, until all of the mode buttons light up, and then release SAT.
- 3 Use the NUMBER PAD to enter a number between 1 and 28, but not the one you wrote in step 1. Odd-numbered TV2 remote addresses automatically use UHF Pro Band A, while even-numbered addresses use UHF Pro Band B. If you have two UHF Pro remotes in your house, ensure one uses an odd address and the other an even address. If you have more than two DISH Network remotes, consult the SYSTEM INFO screen on each DISH Network receiver and ensure that all the IR/UHF Pro remotes use different addresses.
- 4 Press POUND (#). If you entered the address correctly, SAT will flash three times.

Write down the number you entered: _____

- 5 Press RECORD. Make sure the Remote Address you see on the System Information screen is the same as the one you entered in step 3. If it isn't, press RECORD again, because the remote cannot control the receiver unless the address shown is the same.

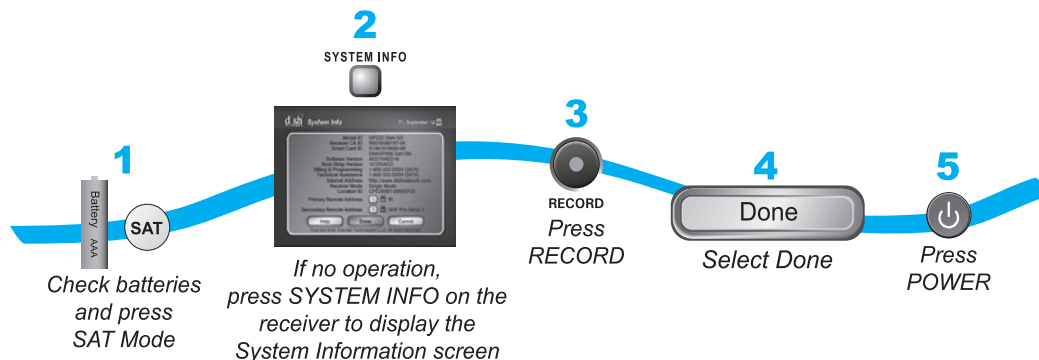
- 6 Press SELECT on the receiver's front panel to close the System Information screen.

Checking the Remote Control Address



- 1 Press and hold the SAT mode button until all of the mode buttons light up, then release it.
- 2 Press POUND (#) twice. The SAT mode button will flash the same number of times as the address number (for example, three flashes means address 3).

Confirming Remote Control Operation



- 1 Make sure the remote contains fresh batteries and is in SAT mode (to verify, press the SAT Mode button).
- 2 Press SYSTEM INFO on the receiver front panel to display the System Information screen on the nearby TV.
- 3 Press RECORD on the remote control:
 - **Remote Control 1**—The Primary Remote Address in the System Information screen changes to match the address preset in your TV1 remote control. Typically, the remote control for the nearby TV is IR only, unless you have received an IR/UHF Pro remote replacement.
 - **Remote Control 2**—The Secondary Remote Address in the System Information screen changes to match the address preset in your TV2 remote control. Odd-numbered TV2 remote addresses automatically use UHF Pro Band A, while even-numbered addresses use UHF Pro Band B. If you have two UHF Pro remotes in your house, ensure one uses an odd-numbered address and the other an even-numbered address. If you have more than two DISH Network remotes, then consult the SYSTEM INFO screen on each DISH Network receiver and ensure that all the IR/UHF Pro remotes use different addresses.
- 4 Select **Done** to close the System Information screen.

Adjusting the Remote Control Antenna

Be sure to set the remote control antenna (back of the receiver) straight up so you can use the remote control from as far away as possible. Don't let the antenna touch anything.



If your UHF Pro Remote Control 2 isn't working well from far away, you may be experiencing interference from objects near your receiver. To improve your remote control's range, try the following:

- Place the receiver higher than all of the other equipment in your entertainment center.
- Provide room above the receiver so that the remote control antenna can be installed straight up. If you cannot install the antenna straight up, tilt the antenna at about a 30° angle.
- Place the remote control antenna outside the entertainment center by using a coaxial cable to connect the antenna to the receiver.
- Try moving the receiver to other locations.
- Move any nearby over-the-air antennas away from the remote control antenna. Do not place an over-the-air antenna on top of your receiver.
- Install a UHF attenuator. See *Installing a UHF Attenuator* on page 59 for details.

Changing UHF/IR Using the Switch

Your TV2 remote control has a switch to change from sending both IR and UHF signals to sending only IR. The switch comes preset to the UHF position, which sends both types of signals, but if you have a clear line of sight to the satellite receiver you're controlling with this remote (for example, TV2 is in the same room with TV1), then you can change the setting to the IR position to lessen the likelihood of another UHF Pro remote control interfering with yours. This applies to TV2 in Dual User mode. To use TV2's remote instead for TV1 in Single User mode, flip the blue 2 key to the side with the green 1.

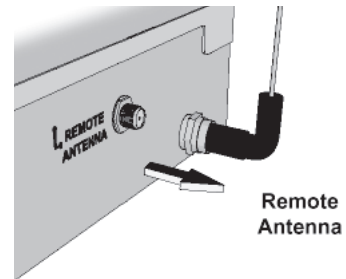
- 1 Remove the battery cover from the back of the TV2 remote control.
- 2 Use a small screw driver or a paper clip to carefully change the switch setting.
- 3 Put the battery cover back on the remote control.
- 4 Use the SYSTEM INFO button on the front panel to open the System Information screen.
- 5 Press RECORD on the remote control.
- 6 Make sure the System Information screen shows the correct information:
 - Switch position UHF—IR/UHF Pro
 - Switch position IR—IR only.



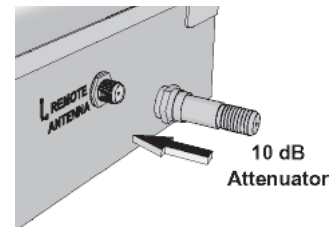
Installing a UHF Attenuator

Unwanted UHF signals may interfere with signals from the remote control to the receiver. To prevent such interference, you can install a 10 dB attenuator (available from many consumer electronics parts stores). Adding this attenuator will help keep out stray UHF signals, but it will also cut down how far away you can use the remote control.

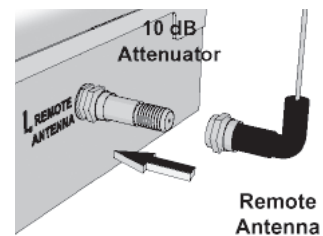
- 1 Remove the remote control antenna from the **REMOTE ANTENNA** input on the receiver's back panel.



- 2 Attach a 10 dB attenuator to the **REMOTE ANTENNA** input.



- 3 Attach the remote control antenna to the attenuator.



CONTROLLING OTHER COMPONENTS

To use the remote to control other devices (such as a TV, DVD player, VCR, tuner, amplifier, or other DISH Network satellite receiver), you must first program it to control these devices. You can do this by any of the following procedures:

- *Setting Up Using Device Code Tables* on page 61
- *Setting Up Using Device Codes Scan* on page 62
- *Setting Up by Learning from Another Remote* on page 64
- *Using the System Wizard* on page 66.

Remote Control Modes

Use the remote control's mode buttons, SAT (satellite receiver), TV (for a TV), DVD (for a DVD player or VCR), and AUX ("auxiliary," for a second TV, DVD/VCR, tuner, audio amplifier, or a second DISH Network satellite receiver) to set the remote control to the right mode for the device. To change the mode, press the button for the device you want the remote to control. The mode button lights for two seconds to show you've set the remote to that mode.

Limited Mode

You can program your remote control in Limited Mode to keep from accidentally changing the channel on your TV or VCR. When you use the remote to control your TV in Limited Mode, you will only be able to use POWER, MUTE, and VOLUME. Also, when you use the remote to control your VCR (using the button for DVD and/or AUX devices) in Limited Mode, you will only be able to use POWER and the VCR function buttons.

Turning Limited Mode On and Off

- 1 Press and hold the device mode button (for example, TV) until all of the mode buttons light. Release the mode button.
- 2 Press:
 - PAGE UP to turn Limited Mode on.
 - PAGE DOWN to turn Limited Mode off.
- 3 Press POUND (#).

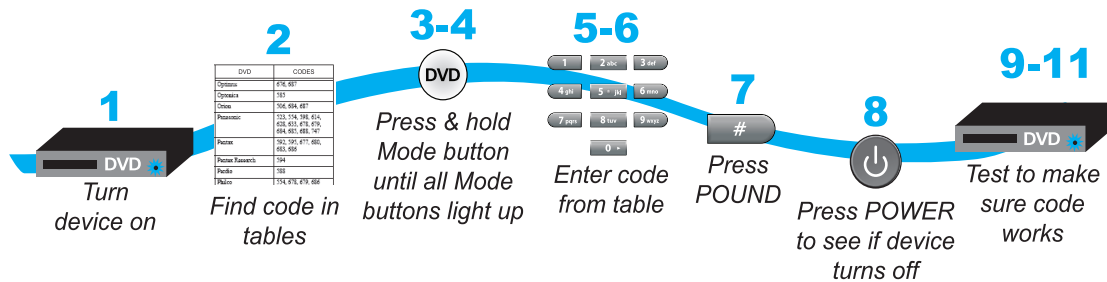
Note: Limited Mode is not used with amplifiers programmed on the AUX button.

Combination Devices

If you are programming the remote to control a combination device, such as a TV/VCR or a TV/DVD, program the remote control in one mode, and then repeat the procedure in the other mode. For example, to program the remote to control a TV/VCR using codes 622 and 815, follow the instructions to program the remote to control the TV using code 622, and then repeat the instructions for programming to control the VCR using code 815.

Setting Up Using Device Code Tables

Set up the remote to control other devices using the device codes listed on page 119. In the instructions below, the column on the left contains the instructions and the column on the right provides additional information.



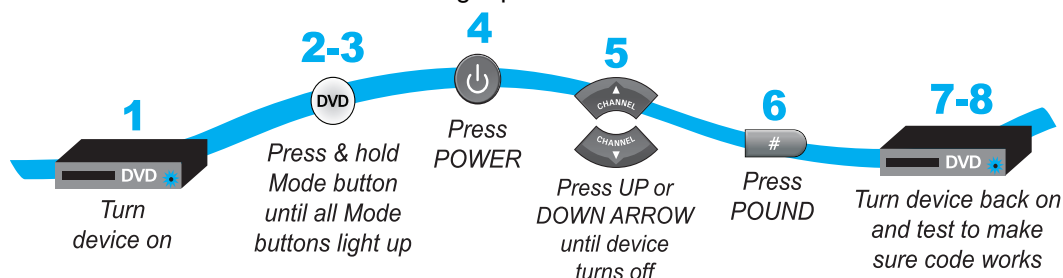
Instructions

Additional Information

- | | |
|--|--|
| <ol style="list-style-type: none"> 1 Turn the device on. 2 Find the brand name of the device in the tables starting on page 119. 3 Press and hold the mode button until all the other mode buttons light up, then release the button. The mode button flashes. 4 <i>For AUX mode only.</i> Press 0 for a TV, 1 for a VCR, or 2 for a tuner or amplifier. 5 Enter one of the three-digit device codes from the table using the number buttons. 6 If you want to program Limited Mode, press 1. If not, skip to step 7. 7 Press POUND (#). 8 Press POWER to turn off the device. If the device does not turn off, go to step 10. 9 Turn the device back on and try some other buttons to make sure they work. If the code works for other buttons, stop here. 10 If the code doesn't work, repeat steps 3 through 9 with another device code from the tables. 11 If you can't find a code that works, try <i>Setting Up Using Device Codes Scan</i> that follows. | <p>Use the device's front panel buttons or its remote control.</p> <p>If the brand isn't listed, see <i>Setting Up Using Device Codes Scan</i> on page 62.</p> <p>For example, for a TV, hold the TV mode button until all of the other mode buttons light. When you let go, TV will flash.</p> <p>If you're not programming in AUX mode, skip to step 5.</p> <p>The three-digit device code is for the brand name of your device that you found in step 2.</p> <p>See Limited Mode for more information.</p> <p>If you entered the code correctly, the mode button flashes three times.</p> <p>If the code works, the device should turn off.</p> <p>Sometimes POWER works when other buttons don't. If in Limited Mode, try VOLUME or MUTE.</p> <p>Try every code listed for your brand until one works for your device.</p> |
|--|--|

Setting Up Using Device Codes Scan

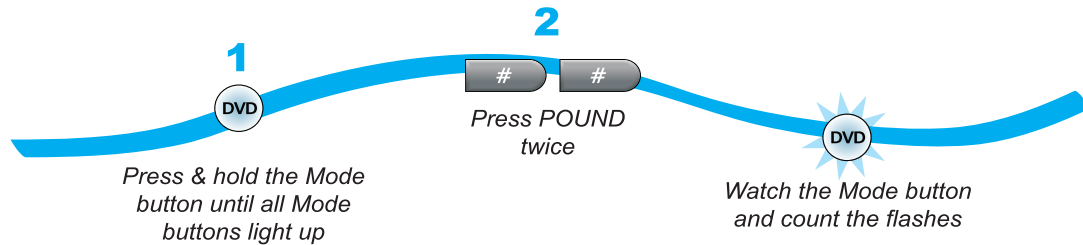
If the code for your device is not listed in the tables starting on page 119 or if you could not find a code that worked for your device, use this procedure to scan the remote control's memory for the device code. In the instructions below, the column on the left contains the instructions and the column on the right provides additional information.



Instructions	Additional Information
1 Turn the device on.	Use the device's front panel buttons or its remote control.
2 Press and hold the mode button until all the other mode buttons light up, and then release the button. The mode button flashes.	For example, hold the TV mode button until all of the other mode buttons light. When you let go, TV will flash.
3 <i>For AUX mode only.</i> Press 0 for TV, 1 for VCR, or 2 for a tuner, or amplifier. Then press the STAR (*) button.	This step is for programming the type of device that will be programmed in AUX mode. If you're not programming in AUX mode, skip to step 4.
4 Press POWER.	This puts your remote in the scan mode.
5 Press the UP or DOWN ARROW repeatedly until the device turns off.	As you press the UP or DOWN ARROW, the remote tries each code in the memory to see if it can turn off your device. When the device turns off, you have found a code that might work. Note: The mode button for the device will flash rapidly eight times when you've scanned all the codes for that device.
6 Press POUND (#).	The mode button flashes three times if you have entered the code correctly, and stores the code you found.
7 Turn the device back on and try some other buttons to make sure that they work also.	Sometimes POWER works when other buttons don't. If using Limited Mode, also try VOLUME or MUTE.
8 If necessary, repeat this procedure until you've tried all the codes.	You may need to repeat the scan to find the best code for your device. Note: This process could take a long time, because of this remote's very large device-code database.

Checking the Device Codes

Use these steps to find the device code you've set for each remote control mode (TV, DVD or VCR, and AUX).



Instructions

- 1 Press and hold the mode button until all the other mode buttons light up, and then release the button. The mode button flashes.
- 2 Press the POUND (#) button twice. Watch the mode light to determine your code. The mode button flashes the number for each digit of the device code, with a pause between the groups of flashes. A quick flash is for zero.

For AUX mode: The first group of flashes tells you what the AUX mode controls. A quick flash (zero) before the three-digit code is for a TV, one regular flash is for a VCR, and two flashes is for an audio tuner or amplifier.

For a satellite receiver programmed in AUX mode: The AUX mode button will flash the same number of times as the address number.

For Limited Mode: If you have programmed a TV or VCR in Limited Mode, the device mode button flashes once at the end of the flash sequence.

Additional Information

For example, hold TV until all of the other mode buttons light. When you let go, TV will flash.

For example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

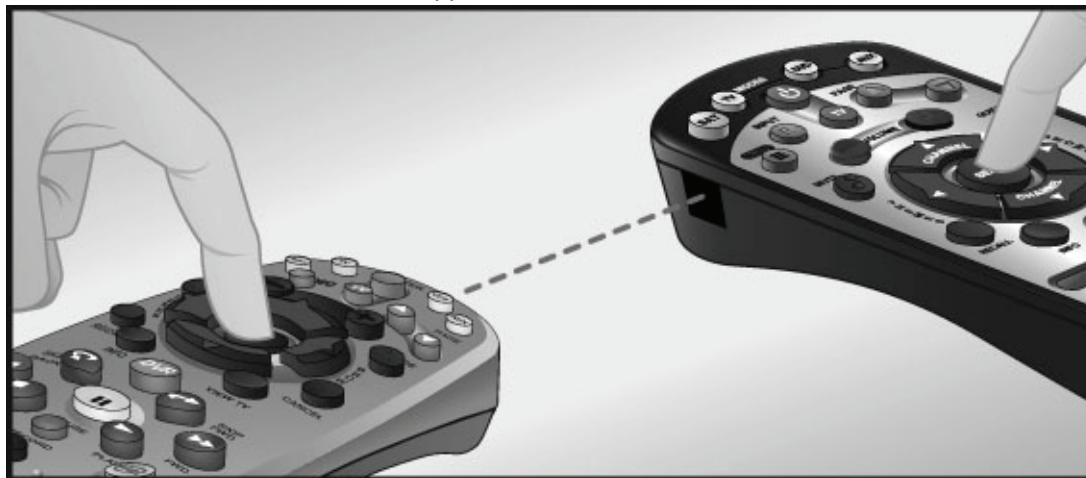
For example, if the TV code is 570, the AUX mode button flashes once quickly (indicating 0 for TV), pauses, flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

For example, if the receiver address is 3, the AUX mode button flashes three times.

For example, if the TV code is 570, the AUX mode button flashes once quickly (indicating 0 for TV), pauses, flashes five times, pauses, flashes seven times, pauses, flashes once quickly, and then flashes once (indicating it is in Limited Mode).

Setting Up by Learning from Another Remote

After you have programmed your DISH Network remote to control your devices (in TV, DVD, or AUX modes), you may find that not all of the commands used by the devices' original remote controls function as you expect. The learning function of your DISH Network remote control can support these commands.



The remote control can learn commands in two ways:

- 1 You can follow the instructions for using device codes to program a specific mode, and then learn commands that add new or overwrite existing functions of the remote control's buttons in this mode. For this type of learning, any button without a learned command keeps the button's existing function (if any, in that mode) for that particular device code.
- 2 Each button on this remote learns a command from the equipment's original remote control. For this type of learning, any button without a learned command will have no function for that device.

To "teach" your DISH Network remote control specific commands for your devices, complete the following:

Instructions	Additional Information
1 Ensure your DISH Network remote control is programmed with the desired address.	See <i>Checking the Remote Control Address</i> on page 57.
2 Place both your DISH Network remote and the original equipment's remote control on a flat, stable surface.	Holding either remote control in your hand may cause learning to fail.
3 On the DISH Network remote, press and hold the mode button for your equipment for about three seconds until all the mode buttons light up, and then release it.	Your selected mode button will blink. For example, if you want to program TV mode on the DISH Network remote to control your TV, hold the TV button down for three seconds.

4 To start learning commands for this mode:

- If you've found a code for that device, first program the code. Now press and release RECALL, then press and hold RECORD for about three seconds.
- If you have not programmed a code for that device, press and hold RECORD for three seconds.

5 Point the front of the original device remote to face the small square (IR window) on the top, left-hand side of the DISH Network remote, as shown on page 64.

6 On the DISH Network remote control, press the button you want to teach.

7 On the original device remote control, press and hold the button you want learned.

- If the DISH Network remote learns the command, the mode light blinks off and then back on.
- If the mode light blinks three times or remains lit, the DISH Network remote did not learn the command.

8 After a button has learned a command successfully, repeat step 6 and step 7 until all commands you want have been learned.

9 To complete the learning sequence:

- Press the mode button on the DISH Network remote. This saves all the commands for that mode, and exits learning to return to normal remote control operation.
- To cancel learning, do not press any buttons on either remote control for at least 30 seconds. The DISH Network remote control times out and returns to normal operation.

Note: **No learned commands are saved** if the DISH Network remote control times out before completion.

To find and program the device code, use the instructions for *Setting Up Using Device Code Tables* on page 61 or *Setting Up Using Device Codes Scan* on page 62.

The mode button that you selected in step 3 should remain lit while learning. If the light goes out, start over the learning process with step 3.

Both the DISH Network remote and the original device's remote control should remain on a flat, stable surface for the duration of the learning process.

Your DISH Network remote control must learn commands one button at a time.

You may need to try pressing the button on the original device's remote several times for the DISH Network remote to learn the command.

If the remote control times out while learning commands, the mode light will go out, and then you must start over with step 3.

The learning sequence also ends if the remote:

- Runs out of memory for more learned commands. It saves the commands you have learned for equipment in this mode, exits learning and returns to normal remote control operation. Then the DISH Network remote cannot learn additional commands.
- Batteries are too low for learning. All the mode buttons will blink quickly eight times. Learning ends, in this case, **with no learned commands saved**, and the DISH Network remote returns to normal operation. Change the batteries (see instructions on page 15).

Using the System Wizard

By pressing and holding the 0 (zero) key on your DISH Network remote control, you enter the System Wizard.

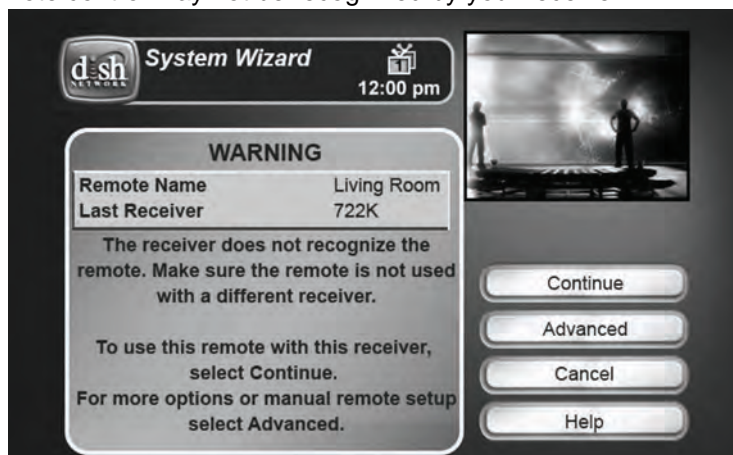


The System Wizard can help you diagnose certain problems you may be having with your DISH Network remote control, including:

- *Remote Is Not Recognized*
- *Adjust Remote Configuration*
- *Resolve Address Conflict*

Remote Is Not Recognized

The remote control may not be recognized by your receiver.



If you select Continue, the wizard tries to configure your receiver and remote control to work together.

Adjust Remote Configuration

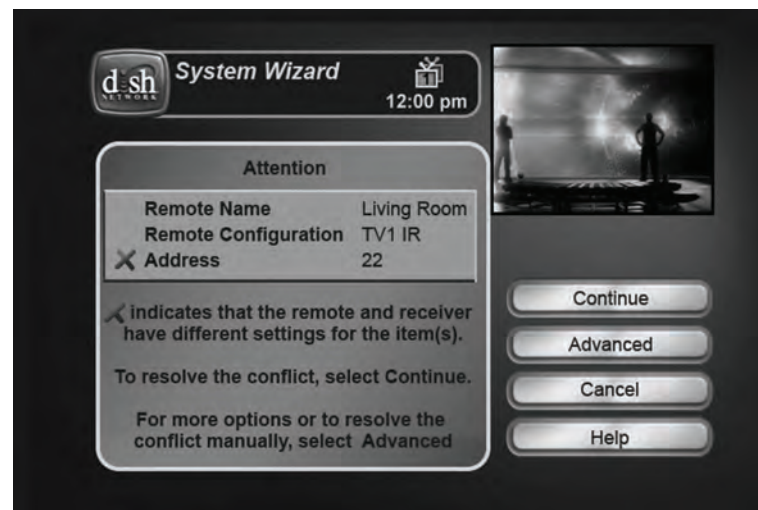
You may see a screen asking you to adjust the physical configuration of the remote control.



Configure the remote key and the UHF/IR switch as shown on the screen, and then select Continue.

Resolve Address Conflict

You may also see a screen noting that your remote control is not set to the same address as your receiver.



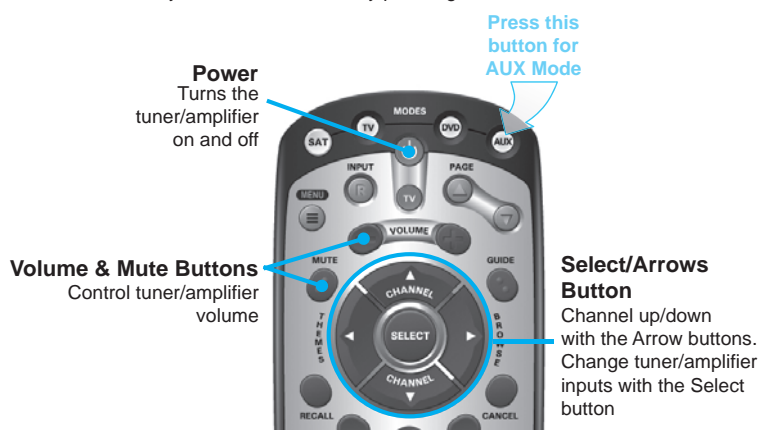
Select Continue on this screen and the wizard will attempt to resolve the address conflict between the remote control and the receiver.

Controlling a Tuner or Amplifier

Use the following remote control buttons to control a tuner or amplifier. When the remote control is set up as described on pages 60 and 68, press the AUX mode button to set the remote to AUX mode. The AUX mode button will stay lit for two seconds to show you've set the remote to AUX mode. Make sure to keep the remote in AUX mode to use the following buttons.

AUX Mode

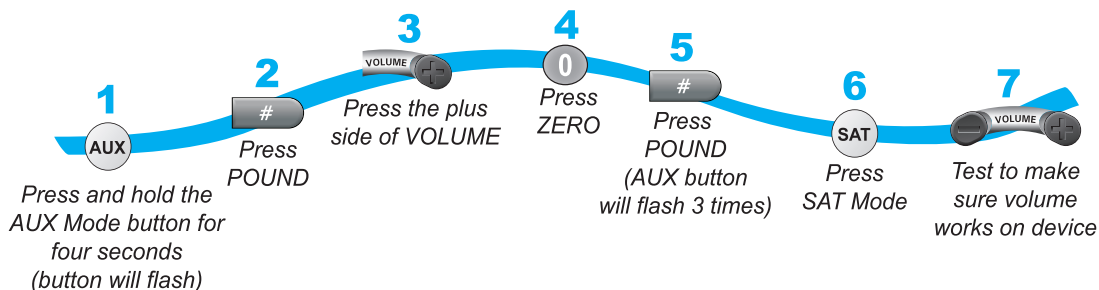
To use the features described in this section, make sure you are in AUX mode by pressing the AUX Mode button.



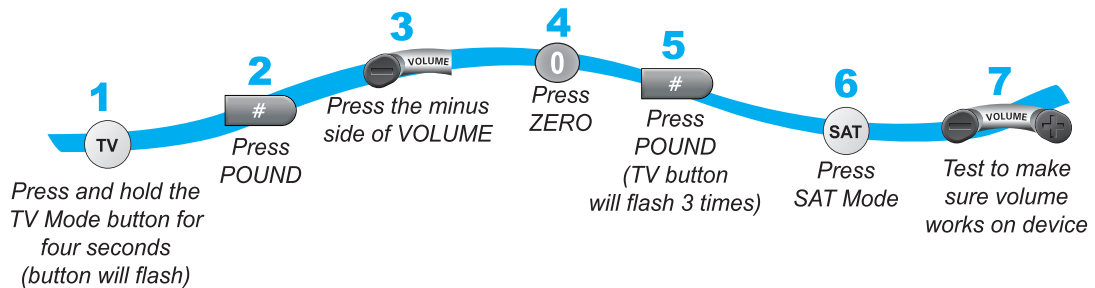
Switching Between TV and Tuner/Amplifier Volume Adjustment

When the remote control is setup to operate your TV, the VOLUME and MUTE buttons will adjust your TV volume. If you prefer the volume and mute functions of the remote control to adjust the volume of a remote-controllable audio tuner or amplifier instead of the TV, this capability can be set up using the AUX mode of the remote control.

To set the remote to adjust the tuner/amplifier volume (steps 1-5 set up the remote and steps 6-7 make sure the remote is set up correctly):



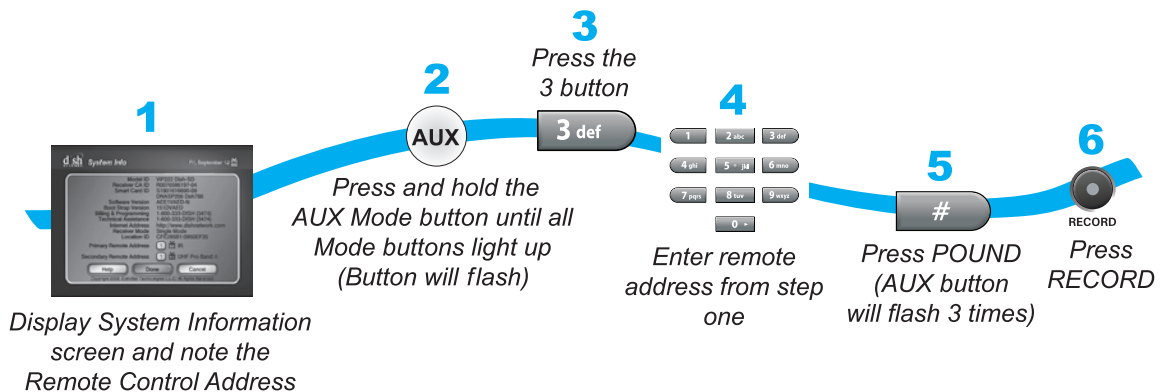
To set the remote back to adjust the TV volume (steps 1-5 set up the remote and steps 6-7 make sure the remote is set up correctly):



Programming to Control a Second Satellite Receiver

If you have another DISH Network satellite receiver installed, you can use this remote in AUX mode to control it along with your new receiver. When you program the remote to control this other receiver, the remote will send out IR signals to the receiver. You can program the remote to control any other DISH Network satellite receiver, *except* for the following:

- TV2 on a DISH 322, ViP222, ViP222k, ViP622 DVR, ViP722 DVR, ViP722k DVR, DISH Player-DVR 522, 625, and 942 receivers
- DishPlayer 7100/7200 receiver.



- 1 Turn on the other receiver and display the System Info screen.
Write down the receiver's address: _____
- 2 Using the new remote control, press and hold AUX until all the other mode buttons light up, and then release the button. AUX flashes.
- 3 Press the 3 button.
- 4 Use the NUMBER PAD to enter the address you wrote in step 1.
- 5 Press POUND (#). AUX blinks three times.
- 6 Press RECORD and ensure the remote's address matches the other receiver's address.

THE RECOVER BUTTON

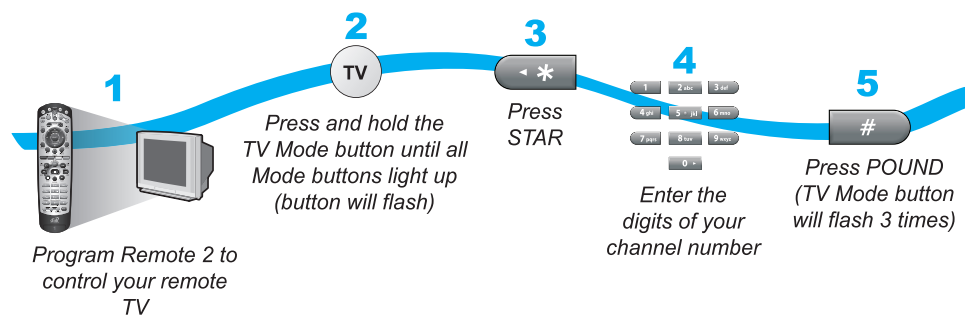
Use RECOVER if you have a snowy, all blue, or black screen on your TV and cannot get the picture back from your satellite receiver. When you press RECOVER as described, the remote control sends commands to your TV to change channels or video inputs to get back to watching satellite programming. This procedure works only if you have accidentally changed the TV channel or video input. It does not recover satellite signals that the receiver has lost (See *Troubleshooting* on page 108 for more information).

Note: The remote must be programmed to control the TV (and the connected VCR, if applicable) for RECOVER to work as described.

RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of RECOVER. You may need to press RECOVER as many as 30 times to recover your satellite TV video. If RECOVER has been programmed to a specific channel (for example, on the TV2 remote control; see the next section), then pressing RECOVER will tune the TV to that specific channel first (for example, channel 60).

Programming the Recover Button for Remote Control 2

When your Remote Control 2 is shipped from the factory, RECOVER is set up to restore satellite TV viewing by tuning your TV (or VCR) to channel 3, 4, and other inputs. To use RECOVER with your remote TV (or VCR), you need to program RECOVER with the specific three-digit number channel that you use to watch TV2 programming. (For two-digit number channels, use zero first. For example, enter channel 60 as 060.) The following instructions describe how to program RECOVER to tune your remote TV (or VCR) back to a selected channel.



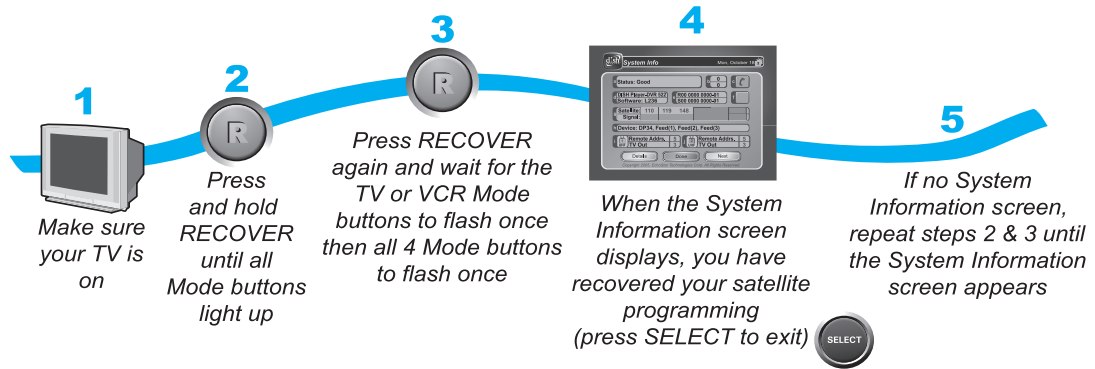
Using the Recover Button

The following setup is required to use RECOVER:

- The remote control must be set up to control the TV and, if installed, the VCR.
- If a VCR is installed, it must be connected as shown on page 98.

Sending Discrete Power On and Off

- On a remote TV, RECOVER must be programmed to tune your remote TV to the specific channel to receive TV2 programming (for example, channel 60), using the instructions on page 70.

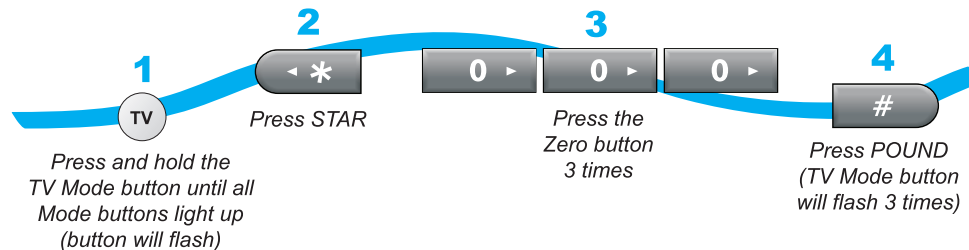


Note: Press any remote control button other than RECOVER to end this procedure.

Note: If RECOVER is not programmed to a specific channel, RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of RECOVER. You may need to press RECOVER up to 30 times to recover your satellite TV video. If RECOVER is programmed to a specific channel (see page 70), RECOVER will tune the TV to the specific channel (for example, channel 60).

Removing the Recover Button Channel Programming

The following instructions describe how to reset RECOVER to restore satellite TV viewing by tuning your TV (or VCR) to channel 3, 4, and other inputs.



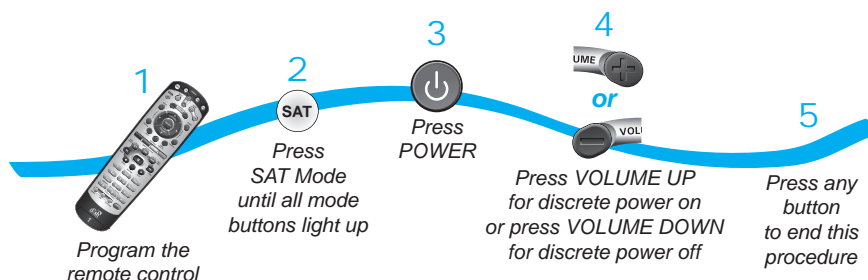
SENDING DISCRETE POWER ON AND OFF

Installers use remote control discrete power on and power off IR commands when programming macro commands into universal remotes. Using an on-only or off-only command is more effective than a toggle on/off command when trying to make sure the

Chapter 9

Tips

satellite receiver is reliably in one state or the other. To use discrete power commands, complete the following:



TIPS

- If using a specific channel for TV2 (for example, channel 60), TV2's remote control must be programmed with a TV2 channel before you can use RECOVER.
- Place the channel sticker on the remote TV and write down the channel you use to watch DISH Network programming. The stickers are inside the front cover of this guide.
- If you don't want to accidentally change channels on your TV or VCR, place the remote control in Limited Mode, as described on page 60.
- Make sure you have a remote control antenna connected so you can use Remote Control 2. See page 15 for instructions.



QUESTIONS

- **My remote doesn't control my receiver or other components. What should I do?**
 - Ensure the remote control is in the correct mode (page 60).
 - Check the batteries (page 15).
 - Check the remote control address (pages 57 and 63).
 - Check (page 15) or adjust (page 58) the remote control antenna.
- **Why does my receiver change channels or display menus at random?** Your neighbor may have their remote control set on the same address. Change the address on your remote control and receiver as described on page 56. If that doesn't help, you may have to install a UHF attenuator as described on page 59.

Receiver Customization



Chapter

10

Personalizing Your Satellite Receiver

What you'll find in this chapter:

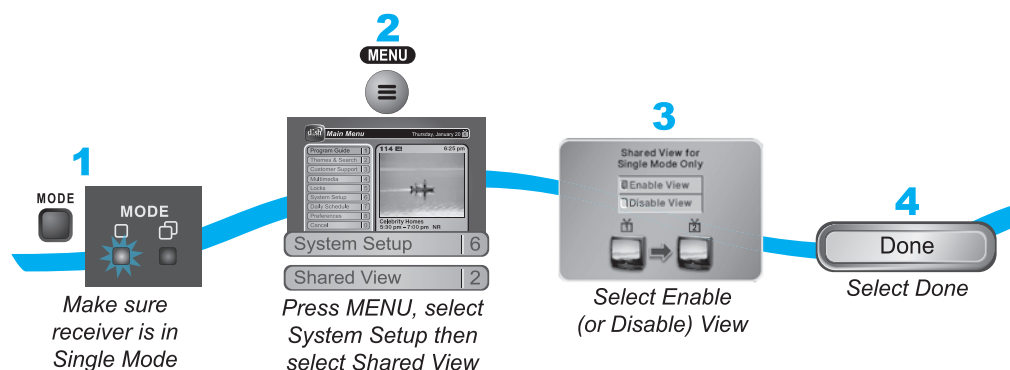
- **USING SHARED VIEW**
- **MODULATOR SETUP**
- **USING CALLER ID**
- **CUSTOMIZING THE GUIDE AND CHANNEL LISTS**
- **CHANGING LANGUAGES**
- **USING CLOSED CAPTIONING**
- **USING DOLBY® DIGITAL SURROUND SOUND**
- **RESETTING TO FACTORY DEFAULTS**
- **SCHEDULING RECEIVER UPDATES**
- **INACTIVITY STANDBY**

Chapter 10

Using Shared View

USING SHARED VIEW

Shared View is a feature of Single Mode that lets you activate the TV2 audio and video outputs to display the same programming as the TV1 outputs. While using this feature, both Remote Control 1 and Remote Control 2 for your satellite receiver can control what is displayed on all TVs connected to the system. This feature is available only in Single Mode.



Note: Make sure you are using Remote Control 1 and TV1 because you cannot enable or disable this feature using Remote Control 2.

Note: If you do not want to display programming on any other TV besides TV1 and you do not want Remote Control 2 to control the receiver, select **Disable View**. After you select **Done**, TV2 will show a screen that says Shared View is currently disabled.

MODULATOR SETUP

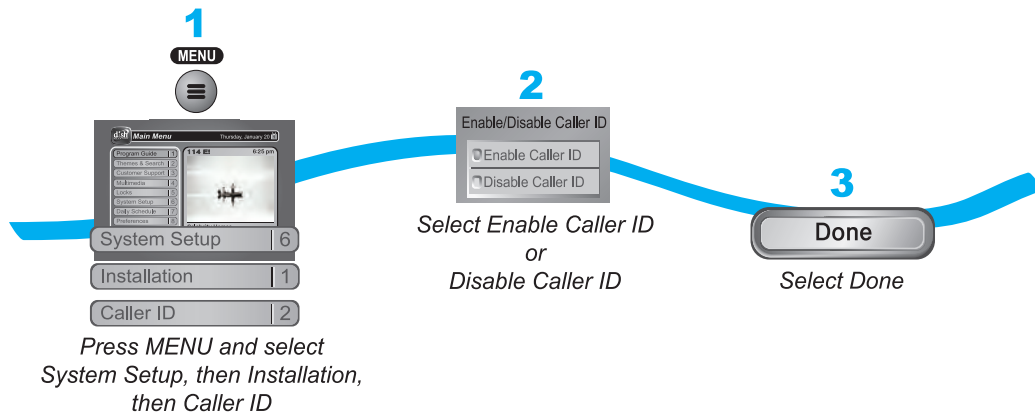
If you have TV1 and TV2 connected to the receiver with coaxial cables (see page 89), you can decide which channel you'd like to use to view your DISH Network programming. If you have the system locked, you'll have to enter the password to enable TV1's output on this screen. Make sure your TV can tune to the channel you pick before you change the setting on this screen.

USING CALLER ID

Caller ID displays on your TV if you subscribe to Caller ID from your local phone company. To use this feature make sure you have a phone line connected to the receiver, Caller ID is enabled on your phone line and that the Caller ID option is selected on your receiver.

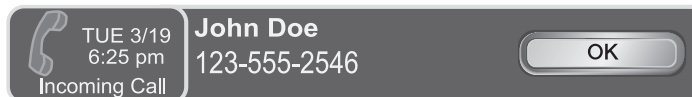
Setting Up Caller ID Display

Use these instructions to enable or disable Caller ID.



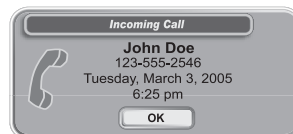
Caller ID Screens

When you receive a call, you will see a Caller ID popup screen.



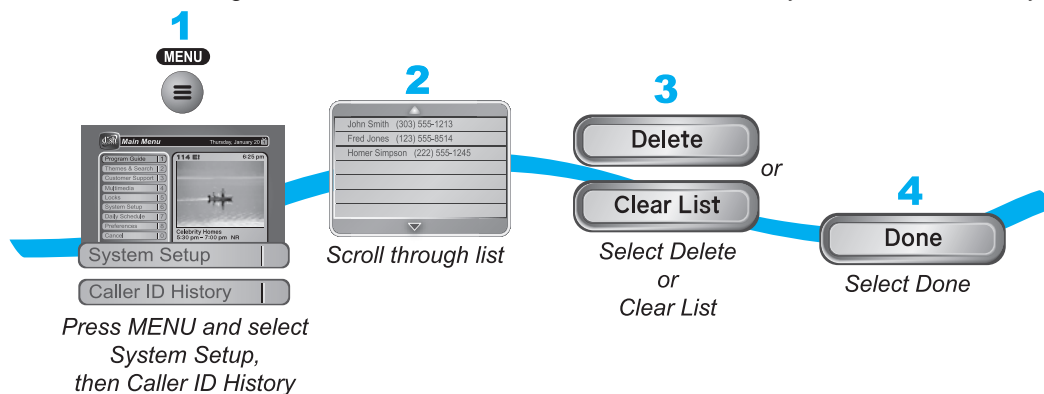
You can select **OK** to eliminate the message. If you do nothing, it will disappear after 20 seconds.

If you are using a menu when a call comes in, you will see a different Caller ID popup screen.



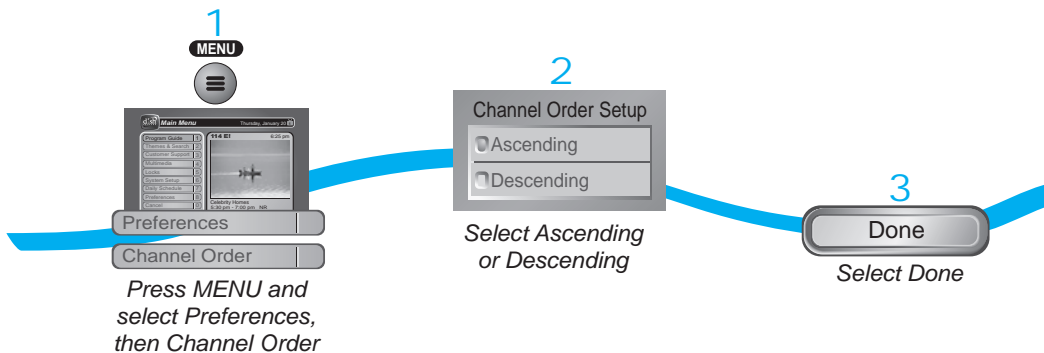
Using Caller ID History

Use the following instructions to view and delete numbers from your Caller ID History.



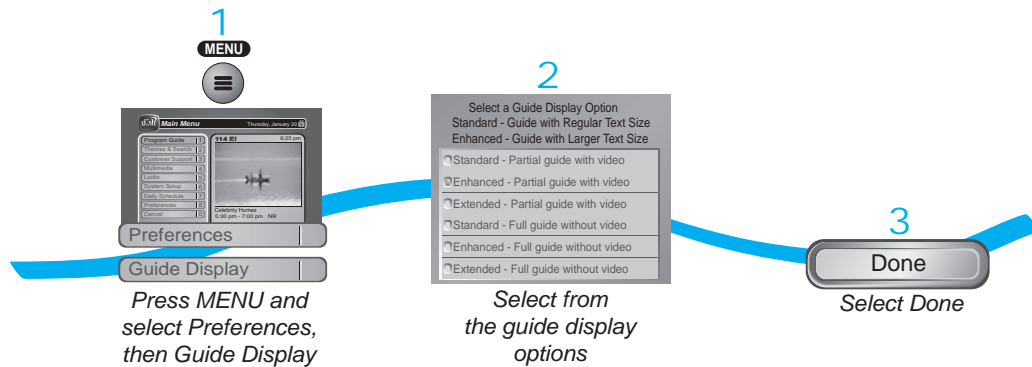
CUSTOMIZING THE GUIDE AND CHANNEL LISTS

You can set up the on-screen Program Guide to list channels in descending order, with the highest channel number at the bottom of the screen, or in ascending order, with the highest channel number at the top of the screen. The default setting is to list channels in descending order.



Changing the Guide Display

The receiver comes set to display the Program Guide with video in the upper right corner. However, you can change the way the Program Guide displays.



- **Standard — Partial Guide with Video.** This option is preset when you first set up the receiver. The Program Guide displays video in the upper right corner and 1.5 hours of schedule per page.
- **Enhanced — Partial Guide with Video.** Choose this option if you'd like larger text on your Program Guide. The Program Guide displays video in the upper right corner and one hour of schedule per page.
- **Extended — Partial Guide with Video.** Choose this option if you'd like to see video in the upper right corner and three hours worth of schedule per page on the Program Guide.
- **Standard — Full Guide without Video.** Choose this option if you'd like to see more channels per page on the Program Guide.
- **Enhanced — Full Guide without Video.** Choose this option if you'd like to see more channels per page in large text on the Program Guide.
- **Extended — Full Guide without Video.** Choose this option if you'd like to see more channels and three hours of schedule per page on the Program Guide.

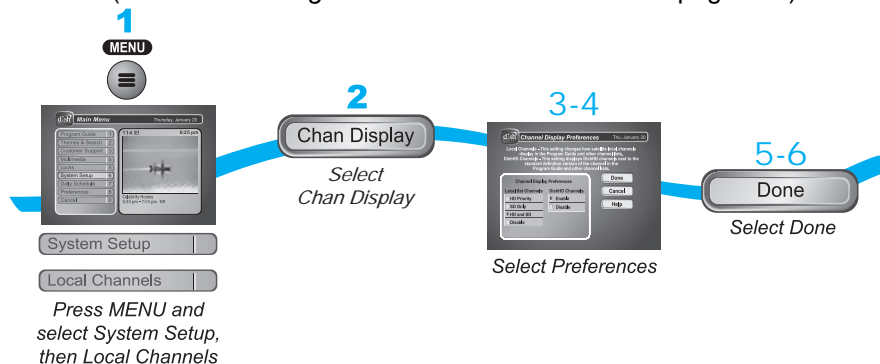
Channel Display Preferences

The **Chan Display** option on the Local Channels menu allows you to customize how your local channels and your DishHD channels display in the Program Guide and other channel lists. Digital, over-the-air local channels require the optional over-the-air tuner module be purchased and installed, and an over-the-air antenna be connected (refer to the installation instructions that came with the optional module and *Connecting an Over-the-*

Chapter 10

Customizing the Guide and Channel Lists

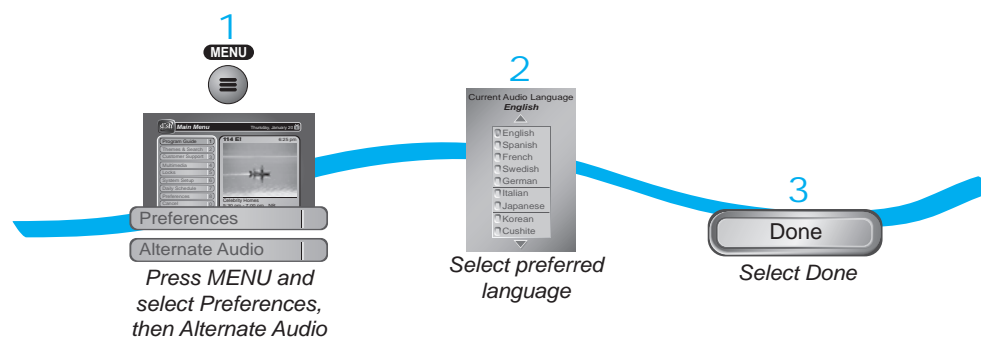
Air Antenna on page 99). To change the channel display, you must first scan for over-the-air channels (refer to *Scanning for Over-the-Air Channels* on page 100).



- 1 Press **MENU**, select **System Setup**, and then **Local Channels**.
- 2 Select **Chan Display**.
Note: Changing the channel display preference may cause timers on those channels to be lost. Review your timers list after making any changes (refer to *Using the Timers List* on page 53).
- 3 Choose a preference for how local channels display in the Program Guide and other channel lists under Local Sat Channels:
 - **HD Priority**—display only HD versions of the local channel below 100 at the local station's channel number. If an HD local channel is not available, the SD channel is listed.
 - **SD Only**—display only SD local channels below 100. HD channels display in the four-digit channel range.
 - **HD and SD (default)**—display both HD and SD local channels at the local station's channel number.
 - **Disable**—HD and SD local channels are found only in the four-digit channel range.
- 4 Choose a preference for how DishHD channels display in the Program Guide and other channel lists under DishHD channels:
 - **Enable (default)**—DishHD channels display at the SD channel number.
 - **Disable**—DishHD channels display in the four-digit channel number.
- 5 Select **Done** on the Channel Display screen.
- 6 Select **Done** on the Local Channels screen.

CHANGING LANGUAGES

You may be able to change the language of some programs. Some programs, such as movies, indicate at the beginning whether an alternate language or descriptive video is available. An alternate language applies only to the audio part of a program and does not change the language used in the menus displayed by the receiver. Descriptive video—not included on all channels and programs—is a feature for the visually impaired that describes what is happening during a program.



USING CLOSED CAPTIONING

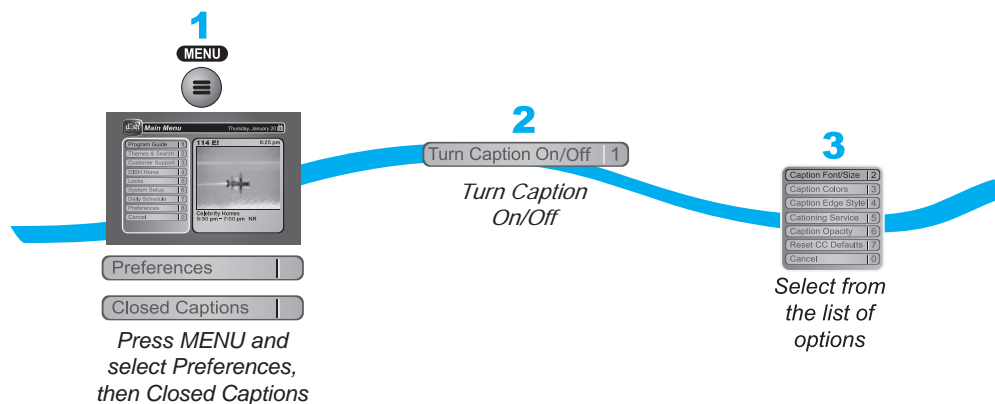
The receiver has many options for Closed Captioning (CC), which allow you to change the feature to suit your needs.

Use the following questions and table to determine if CC is available at your TV location:

- 1 Are you watching SD or HD programming?
- 2 Are you in Single or Dual Mode? Refer to page 13 for information on switching modes.
- 3 Are you watching TV1 or TV2?

Programming Type	Single Mode	Dual Mode
SD Programming	TV1: CC available through the receiver. TV2: CC available through the receiver.	TV1: CC available through the receiver. TV2: CC must be enabled on the TV.
HD Programming	TV1: CC available through the receiver. TV2: CC available through the receiver.	TV1: CC available through the receiver. TV2: CC must be enabled on the TV.

Note: Not all programming contains CC information.



Choose the display options that match your preference, then select **Done**.

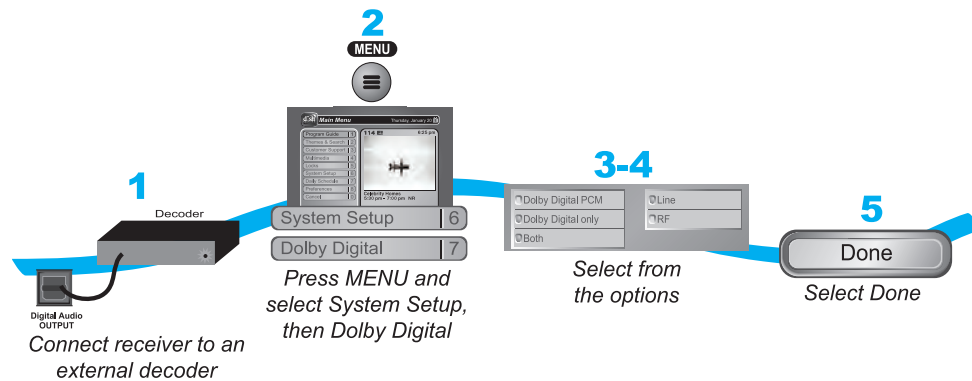
- **Caption Font/Size:** Select a comfortable font and size.
- **Caption Colors:** Sets the background, letter, and edge colors. Choose the color combinations that makes the captioning easy to see.
- **Caption Edge Style:** Sets the edge style of the CC available text.
- **Captioning Service:** Selects the service you want to use.
- **Caption Opacity:** Choose from **Provider**, **Transparent** (see-through), **Translucent** (semi-see-through), **Solid**, and **Flashing**.
- **Reset CC Defaults:** Reset all closed captions settings to the default setting.

USING DOLBY® DIGITAL SURROUND SOUND

Dolby Digital gives you the capability to enjoy programs in surround sound. An external decoder is required to enjoy this feature. Refer to your decoder's user's guide.

Note: Not all programs contain a Dolby Digital sound track.

The receiver uses an optical port for outputting digital audio. The optical output can provide two audio data types: Dolby Digital and Linear PCM (only Dolby Digital can provide full 5.1-channel sound).



- **Dolby Digital Only:** Select this option if the stereo system or amplifier can decode only Dolby Digital and will not process Linear PCM signals. See your amplifier's owner's manual for more details on its decoding (and see the following table).
- **PCM Only:** Select this option only if the audio system or amplifier cannot decode Dolby Digital signals.
- **Dolby Digital/PCM:** Select this option only if the audio system or amplifier can decode both Dolby Digital and Linear PCM signals. This is the default option.

The audio output is also dependent on what is present in the program you are watching. The table below shows what type of output you will hear:

Optical Output Setting	Signal Present in Program		
	Dolby Digital	PCM	Both
Dolby Digital Only	Dolby Digital	PCM	Dolby Digital
PCM Only	PCM (downmix)	PCM	PCM
Dolby Digital/PCM	Dolby Digital	PCM	Dolby Digital

Note: When both audio signals are present in the program, the receiver always defaults to Dolby Digital output unless you have selected PCM Only.

- **Line Mode:** When you use this setting, in comparison to RF Mode, the dynamic range is wider, which makes the music and loud noises louder, but voices quieter.
- **RF Mode:** When you use this setting, in comparison with Line Mode, the dynamic range is narrower, which makes music and loud noises quieter, but voices louder.

RESETTING TO FACTORY DEFAULTS

You can reset the receiver to discard any changes you have made to the receiver, except for remote control address settings and locks. Resetting the receiver to factory default settings also discards all Favorite Lists except the All Chan, All Sub, and All HD lists.

You cannot reset the receiver to default settings to discard a password you have forgotten. No one but a Customer Service Representative can reset the receiver to bypass a receiver lock.

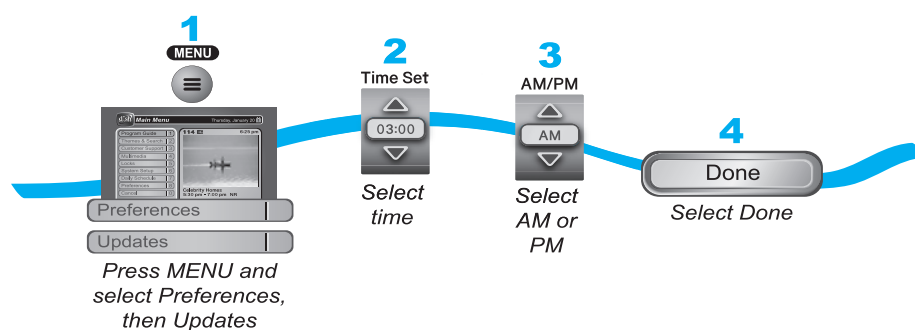
- 1 Press **MENU**, select **System Setup**, and then **Factory Defaults**. The receiver displays a Warning message to confirm that you want to reset the receiver's preferences.
- 2 Select **Yes**.

Favorites Lists other than All Chan, All Sub, and All HD will be deleted after the receiver is reset, such as during Updates. To delete them immediately, reset your receiver now.

SCHEDULING RECEIVER UPDATES

The receiver comes scheduled to update the Program Guide at 3:00 AM every day. This section describes how to change the Updates settings. Keep this feature enabled so that your timers remain current.

Note: This feature does not interfere with scheduled timers.



INACTIVITY STANDBY

If your receiver is on for a preset period of time without any activity (for example, no channel changes), then the Inactivity Standby feature turns off the receiver (the front panel light goes out) so that you'll always have the latest Program Guide information. Enabling this feature (which is recommended) also improves the reliability of your receiver. To change the settings for this feature, complete the following:

- 1 Press MENU.
- 2 Select **Preferences**, and then **Inactivity Standby**.
- 3 Highlight **Activation** and use the UP and DOWN ARROW buttons to switch between **Enabled** and **Disabled**.
- 4 Highlight **Inactivity Duration** and use the UP and DOWN ARROW buttons to select the amount of time the receiver waits before turning off.
- 5 Select **Done**.

Note: Select **Defaults** to reset the changes you've made to this feature.



TIPS

- To take full advantage of Dolby Digital 5.1 surround sound, you need an optical cable and a stereo that supports this feature.
- To use the Caller ID feature on this receiver be sure to have the receiver connected to an active phone line and have Caller ID service from your phone company.



QUESTIONS

- **How can I see who has called me in the past?** Open your Caller ID History by pressing MENU, select **System Setup** and then **Caller ID History**.
- **Why is my audio in another language?** You may have selected an alternate language. See the instructions on page 79 to change your preferred language.
- **How can I change the channel order in the Program Guide?** You can switch from ascending order (lowest to highest) or descending order (highest to lowest) by following the instructions beginning on page 76.

Chapter 10

Questions

Notes

Connections and Setup



Chapter

11

How to Connect Your Satellite

What you'll find in this chapter:

- **CONNECTING TO THE NEARBY TV (TV1)**
- **CONNECTING TO THE REMOTE TVs (TV1 OR TV2)**
- **CONNECTING TO YOUR DISH ANTENNA**
- **CONNECTING THE PHONE LINE**
- **CONNECTING A BROADBAND INTERNET CONNECTION**
- **CONNECTING A VCR TO THE REMOTE TV**
- **CONNECTING AN OVER-THE-AIR ANTENNA**
- **USING TROUBLESHOOTING TOOLS**

CONNECTING TO THE NEARBY TV (TV1)

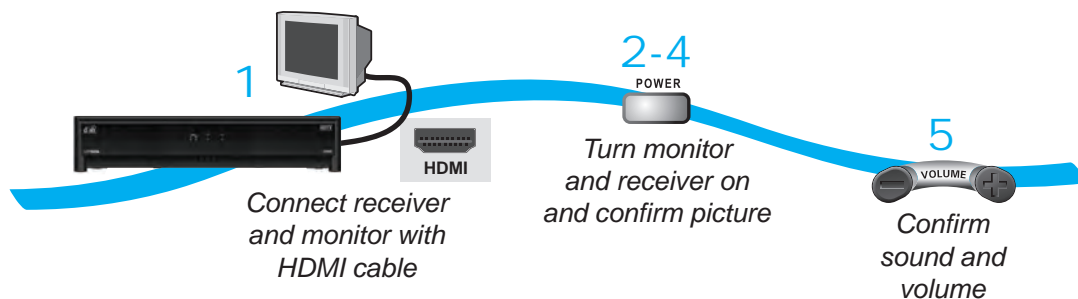
This section describes how to connect receiver TV1 output ports to a nearby TV. Select one of the following methods.

Note: If you would like to put the receiver in a remote location (closet, cabinet, etc.), be sure to get the replacement remote control that uses UHF Pro signals to control TV1. Call your DISH Network retailer or go to www.dishnetwork.com, select Shop, and then click on Accessories.

HDMI Connections

The **HDMI** connection provides high-quality audio and video to your HDTV or HD Monitor in one cable. If your HDTV or monitor has an HDMI connection available, this is the recommended connection.

Note: Connecting your TV directly to the audio/video outputs of your receiver will assure a more vivid picture and enhance your viewing enjoyment.



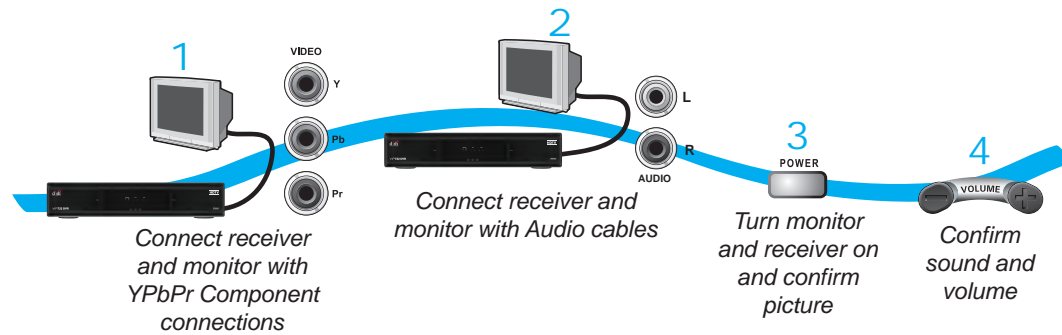
- 1 Connect an HDMI cable between the **HDMI** connection on the receiver and HDTV set or monitor.
- 2 Turn on your receiver and TV using the front panel buttons.
- 3 Confirm that you are getting a picture from the receiver. Consult your HDTV user's guide if you need to change your HDTV to display from the Digital Audio/Video input.
- 4 If you do not see a picture, see *No Picture on the Nearby TV* on page 87.

Note: In most cases connecting the HDMI cable will provide plug-and-play control of the monitor's display resolution and other settings. However, your HDTV may require selecting a different format to display from the receiver during setup.

- 5 Turn up the volume on your HDTV and confirm you have sound. If you don't have sound, your system may require you to connect audio (red and white) RCA-type cables between the receiver audio outputs and audio input connections.

YPbPr Connections

The **YPbPr** (component) connections provide high-quality video to your HDTV or HD monitor.



- 1 Connect between the **YPbPr** component connections on the receiver and the nearby TV using component video cables.
- 2 Connect audio (red and white) RCA-type cables between the receiver **AUDIO OUTPUTS** and audio input connections that go with the YPbPr connectors on your HDTV or monitor.
- 3 If you do not see a picture, change the resolution setting on the receiver. Use the steps below and *Setting Up to Display in HD* on the next page.
- 4 Turn up the volume on your HDTV and confirm you have sound. Check the RCA-type connections if you don't have sound.

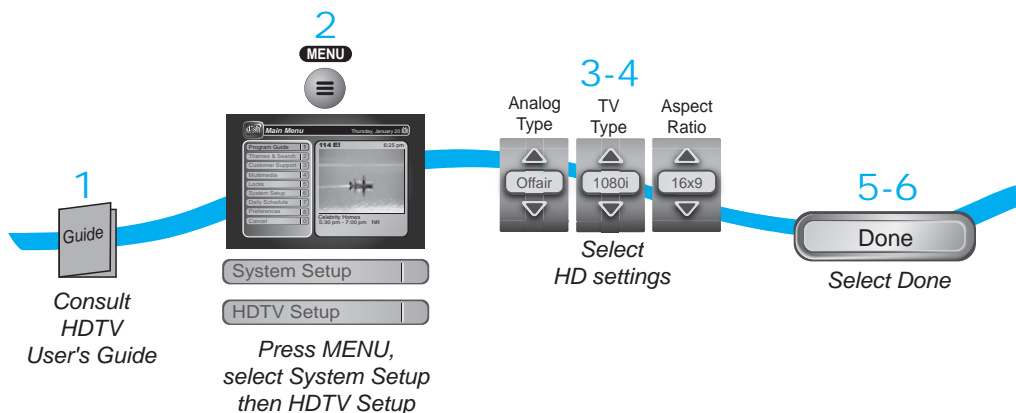
No Picture on the Nearby TV

This section will help you make a picture on the nearby TV in the event that you could not do so in the previous sections.

- 1 Connect RCA-type cable connections between the receiver **TV1 OUT** and the nearby TV.
- 2 Make sure the receiver and nearby TV are on.
- 3 Make sure the nearby TV is set to use the RCA-type inputs. Look on the back of your HDTV and consult your HDTV user's guide.
- 4 Change the HDTV settings as described on page 88.
- 5 Switch to the nearby TV to display from the HD inputs you selected in the previous sections. If you have a picture from TV1, you are finished.
- 6 Repeat steps 4 and 5 until the nearby TV displays video from the receiver.

Setting Up to Display in HD

Once the receiver has been activated with qualifying DISH Network programming, you will be able to receive HD programs to watch. Use the following steps to select the desired HDTV format.



- 1 Consult your HDTV user's guide for the HD format resolution that the TV supports (1080i or 720p). For HDTVs that support both resolutions, choose the one that looks best on your HDTV.
- 2 Press **MENU**, select **System Setup**, and then **HDTV Setup**.
- 3 Select the HD format settings (**Analog Type** and **TV Type**) that matches the format your TV supports. If you plan to scan in digital local channels using the optional over-the-air tuner module with attached over-the-air antenna, then choose **Offair** for **Analog Type**.
- 4 While in this menu, select the **Aspect Ratio** option that matches your TV:
 - **16x9** is the setting for wide-screen HDTV display.
 - **4x3 #1** is the setting to use on a 4x3 TV which uses vertical compression. When viewing with a 16x9 program, a compatible TV automatically makes the picture letterbox format (with black bars top and bottom), to preserve the correct horizontal and vertical proportions.
 - **4x3 #2** is the setting to use on a 4x3 TV which does NOT have internal vertical compression. When viewing a 16x9 program, such a TV will not show black bars at the top and bottom, and the picture will appear tall and skinny.
- 5 Select **Done**.
- 6 If required, set up the HDTV to display in the format you desire. Some HDTVs will automatically adjust to the resolution setting of the receiver.

CONNECTING TO THE REMOTE TVs (TV1 OR TV2)

This section describes how to connect the receiver's **HOME DISTRIBUTION** connection to the cable-ready remote TV located in another room away from the receiver. You can use these instructions to connect TVs in your house to see programming from TV1 or TV2. This installation uses your in-home cable system. If your house does not have built-in cabling, it will be necessary to run cables from the receiver to each remote TV. Due to the difficulty of this installation, you should consider having this professionally installed. Call DISH Network at 1-800-333-DISH (3474).

If you're using TV1 in a room away from the receiver, be sure to order the replacement remote control that uses UHF Pro signals instead of IR. Call your DISH Network retailer or go to www.dishnetwork.com, select Shop, and then click on Accessories.

When connecting to the **HOME DISTRIBUTION** coaxial port, you must meet the FCC requirements in the Appendix. To meet these requirements, your receiver includes a software-based attenuator:

- If connecting to your in-home cabling system to distribute the signal to a TV(s) in other rooms, in most cases you will not have to enable the attenuator on the **HOME DISTRIBUTION** port for typical in-home cabling systems.
- If connecting directly to a nearby TV tuner port, you must enable the attenuator between the **HOME DISTRIBUTION** port and the TV tuner.



If you have an over-the-air antenna or cable connected to your in-home cable system, see *Connecting an Over-the-Air Antenna* on page 99 .



Make sure you are familiar with how to change channels on your TV and if necessary how to switch your TV between over-the-air and cable channels. During this procedure, it will be necessary to change the channels on your TV(s) to tune to these channels to see the video from the receiver. See your TV user's guide for instructions.

- 1 Connect the tuner input of the remote TV(s) in other rooms to an existing wall cable outlet using a coaxial cable.
- 2 Turn on every remote TV connected to the in-home cabling system.

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Connecting to the Remote TVs (TV1 or TV2)

- 3 Find three channels next to each other on one of your remote TV(s) that do not pick up any signals from over-the-air or cable broadcasts (they should show nothing but snow or static). These channels must fall in one of the two ranges below. For example, if you find that cable channels 75, 76, and 77 do not pick up any broadcasts, pick these channels since they fall into the range below for cable channels. Make sure these three channels on other remote TV(s) also do not pick up broadcasts.

- **Air Mode** — Select a channel between 21 and 69 if your TV(s) will be set in Air Mode.
- **Cable Mode** — Select a channel between 73 and 125 if your TV(s) will be set in Cable Mode.

Note: The remote TV(s) will have to be set to the same channel mode, either air or cable channel mode for this installation. See your TV user's guide for instructions on how to set your TV to air or cable channel modes.

- 4 Pick the channel in the middle of the three you selected in step 3. Write that channel down in the blank provided in step 5. For example, if the three channels you picked in the preceding step were air channels 60, 61, and 62, pick channel 61 and write it in the space provided in step 5.
- 5 If your TV is in over-the-air mode for the channels you picked in step 4, circle "Air" below. If your TV is in cable mode for the channels you picked in step 4, circle "Cable" below. If you are using these instructions for TV1 and TV2, pick different channels (for example, Channel 60 for TV1 and Channel 64 for TV2).

TV1 Channel: _____ **TV2 Channel:** _____ **Air/Cable**

- 6 Set all of your remote TV(s) to the channel mode (air or cable) you wrote in step 5.
- 7 Tune all of your remote TV(s) to the channel(s) you wrote in step 5. This is the channel you will use to receive your satellite programming.
- 8 Connect **CH 21-69 OUT** on the receiver to your existing wall cable outlet using a coaxial cable.

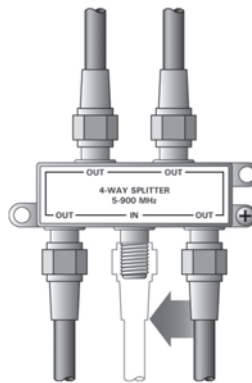
Note: If you do not have an existing in-home cable system, you will need to run coaxial cable to each TV in other rooms. If this is too difficult, you may want to contact a professional to do this installation.

- 9 Place the yellow sticker on the CH 21-69 Out cable near where the cable attaches to the receiver. The stickers are located inside the front cover of this guide.
- 10 Turn on the nearby TV (the TV that gets programming from the TV1 outputs).
- 11 Make sure the receiver's green TV1 indicator is on.
- 12 Press MENU. Select **System Setup, Installation**, and then **Modulator Setup**.

Connecting to the Remote TVs (TV1 or TV2)

- 13 With the Modulator Setup screen displayed on the nearby TV, use Remote Control 1 to do the following:
 - a Under TV2 Out (or TV1 Out), select either **Air** (air channel numbers) or **Cable** (for cable channel numbers) based on what you wrote down in step 5.
 - b Under TV2 Out (or TV1 Out), use the UP and DOWN ARROWS to change the modulator channel to the one you wrote in step 5.
 - c Select **Done**.
Note: For **TV1 Out**, if you locked the receiver, a message will display asking you to enter your password.
- 14 For some TVs, you must run a channel scan so that the TVs will find and display the selected channel from the receiver. Run the channel scan on all remote TV(s), if available. See your TV user's guide for instructions.
- 15 Confirm that you see a picture from the receiver on your remote TV(s).
 - If your picture looks good, go to step 23.
 - If your TVs do not have a picture or if it is not as clear as you would like it to be, go to the next step.
- 16 You may need to change the cable connection on the splitter that sends the TV signal throughout your house. The change that needs to be made is to reconnect the cable coming from the receiver **HOME DISTRIBUTION** from the output of the splitter to the input of the splitter using the instructions that follow.

The following figure shows an example of what your splitter may look like. Your splitter may look different. The places where the splitter indicates **OUT** refers to all TVs connected to your cable system. The places where the splitter indicates **IN** refers to where the TV signal is fed into the splitter.



1 Input, 4 Output (4-Way) Splitter

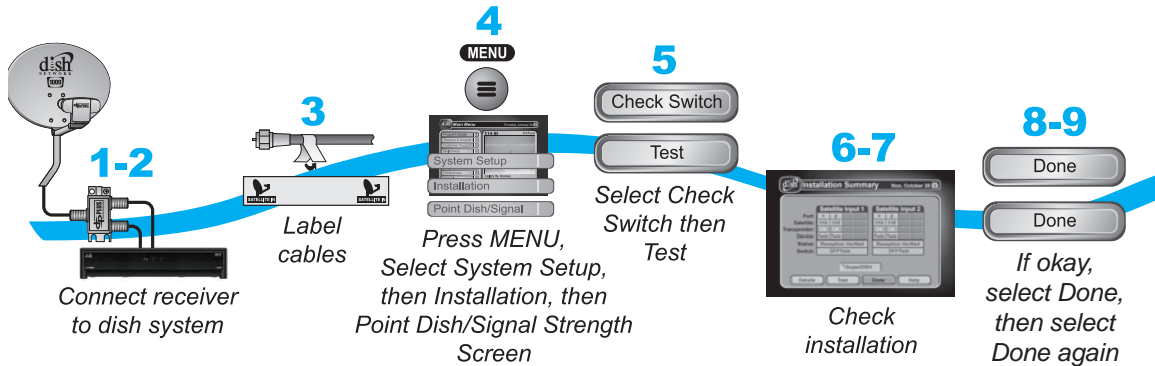
- 17 Find where the TV signal is distributed throughout your house. It should be near where the cable TV service enters the house.

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Connecting to the Remote TVs (TV1 or TV2)

- 18 Disconnect the cable TV service cable or antenna cable from the splitter input, if necessary. Make sure the disconnected cable is capped or otherwise protected from the weather.
- 19 Disconnect the cable coming from the receiver **HOME DISTRIBUTION** port from the splitter. If you do not know which cable this is, go to the next step. Otherwise, go to step 21.
- 20 If you have multiple TVs on the cable system, do the following to determine which cable on the splitter is coming from the receiver:
 - If you have at least some picture on your TVs, turn on all remote TV(s) connected to the cable system. Disconnect and reconnect each cable one-by-one, observing what happens to the TVs. When all remote TV(s) lose the signal, you have disconnected the receiver's cable. If only some or one TV loses the signal, then you have disconnected a cable from the TVs.
 - If the above step does not work, disconnect one of the output cables and connect to the splitter input. If you do not see a picture, connect the cable back to its output. Repeat this step on every connection until you get a picture on the remote TV(s).
- 21 Reconnect the receiver's cable to the input of the splitter.
- 22 Make sure you have a good picture on your remote TV(s).
- 23 If desired to remind you of which TV channel your satellite programming is on, write the channel number you wrote in step 5 on a blank channel sticker and place it on or near your remote TV(s). The stickers are inside the front cover of this guide.
- 24 Confirm Remote Control 2 (or Remote Control 1 with a Green UHF Pro key, sold separately) controls the receiver. See page 57 for instructions.
- 25 Program Remote Control 2's (or Remote Control 1 with a Green UHF Pro key, sold separately) RECOVER to the channel you selected in step 5. See page 70 for instructions.

CONNECTING TO YOUR DISH ANTENNA



- 1 Before you can begin connecting your receiver to your dish antenna, you must first complete the preceding sections to connecting your TVs to the receiver.
- 2 Connect two RG-6 coaxial cables between the **SATELLITE IN 1** and **SATELLITE IN 2** ports on the receiver's back panel to two available ports on either the switch, DISH Pro Plus Separator, or LNBF in your existing system.

Note: If you are installing your receiver into a system with DISH Pro or DISH Pro Plus LNBFs (and/or switches), you can have as much as 200 feet of cable between the LNBF and the receiver. However, you must use only RG-6 coaxial cables rated up to at least 2150 MHz. Some cables may say "Swept tested for 2150 MHz." If you have any doubt about this, ask your DISH Network retailer, or look on the container the cable came in. Do not use cable company TV cables or cables from other satellite TV systems not rated up to at least 2150 MHz. These other cables may cause signal loss. Do not use existing cables such as RG-59. Use waterproof F-connectors outdoors.

- 3 Peel off the blue stickers and affix them to the cables close to where they connect to the **SATELLITE IN 1** and **SATELLITE IN 2** connections on the back of the receiver. The stickers are in the front cover of this guide.
- 4 On Remote Control 1, press MENU, select **System Setup**, **Installation**, and then **Point Dish** to display the Point Dish screen on the nearby TV.
- 5 Select **Check Switch**. Select **Test**.
- 6 The receiver begins performing the Check Switch tests. When it is finished, the Installation Summary screen displays.
- 7 Make sure that the information on the Installation Summary screen identifies your system correctly and shows all transponders for all satellites in your system.
- 8 Select **Done**.
- 9 Select **Done** to exit the Point Dish menu. At this point, the receiver may walk you through a procedure to download software. If this prompt displays, follow the instructions and do not disturb the receiver until the nearby TV is displaying DISH Network video. Otherwise, press VIEW LIVE TV. After a few minutes, you should be watching TV.

CONNECTING THE PHONE LINE

You must keep the receiver connected to an active telephone line (or broadband network connection) to order Pay-Per-View programs, use all of the DishHOME Interactive features, or use other services from DISH Network with your remote control.

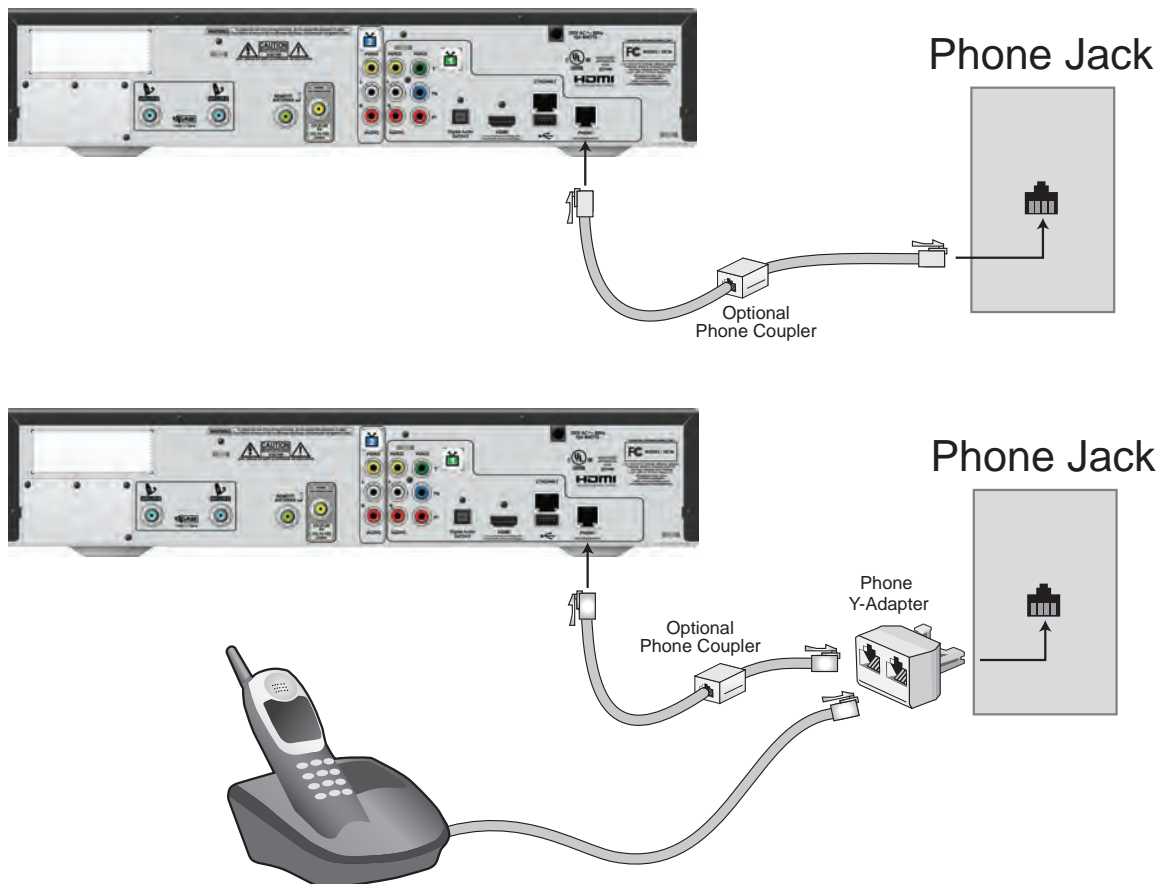
Note: You may be able to use a wireless modem jack. However, this may not support all the features of this receiver, such as Caller ID. See www.dishnetwork.com for compatible modem products.

Note: If you have a Digital Subscriber Line (DSL), you may have to install a DSL filter between the receiver's back panel **PHONE JACK** and the telephone wall jack to successfully connect with DISH Network. You can obtain a filter from your DSL provider.

Phone Line Connection

Run a telephone cable with a standard RJ-11 connector from the receiver's back panel **PHONE** to an active telephone connection as shown below.

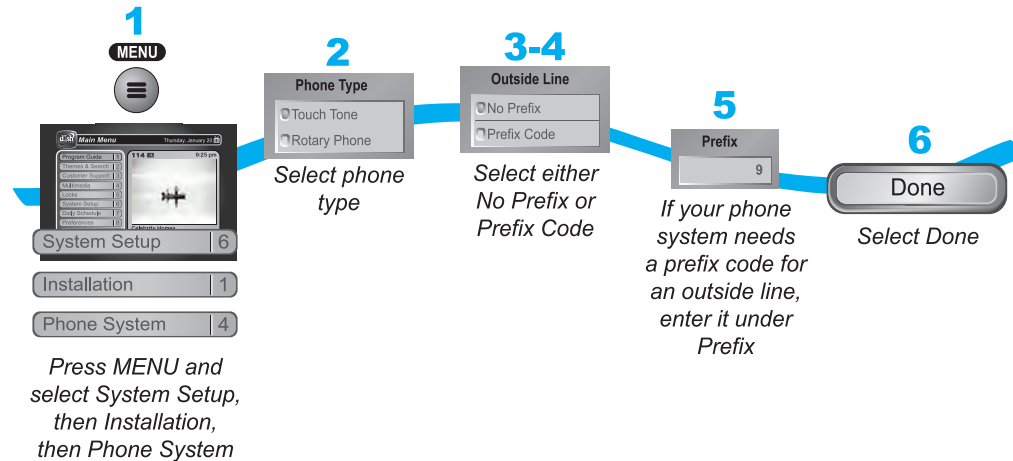
Note: Do not connect the phone line to the Ethernet connection.



Phone System Setup

You must set up the receiver for your telephone system (touch tone or rotary), and set a telephone number prefix, if you need a prefix to make an outside call.

Note: A prefix is different than an area code.



- 1 Press **MENU**, then select **System Setup**, **Installation**, and then **Phone System**.
- 2 Select the **Touch Tone** or the **Rotary Phone** option in the **Phone Type** list.
- 3 Select either the **No Prefix** or the **Prefix Code** option in the **Outside Line Prefix** list.

Note: Usually, you need a telephone number prefix only for business installations. For most residential installations, all you need to do is set the telephone system type. The default setting of No Prefix will allow correct dialing. If this is the case, select the **Save** option to save the above setting, and stop here. If you do need to set a prefix, then instead of selecting the **Save** option, go on to step 5.

- 4 If you selected **No Prefix**, select **Done**.
- 5 If you selected **Prefix Code**, the receiver highlights the box where you must enter the exact sequence used when dialing an outside line.
- 6 Select **Done**.

CONNECTING A BROADBAND INTERNET CONNECTION

If you have broadband (high-speed) Internet access at home, connect your receiver to your home network. You can use this connection to order Pay-Per-View movies using your remote control if you are not able to connect a phone line. It also provides access to additional content not usually available through your satellite subscription.

Refer to tech.dishnetwork.com and search for "home networking" for detailed instructions on making this type of connection.

CONNECTING USING DISHCOMM

DishCOMM is a robust network technology based on the HomePlug 1.0 standard that allows compatible DISH Network satellite receivers to send and receive data via the power lines in your home.

DishCOMM allows one or more receivers to "share" another receiver's phone connection (see step 4, below), or to use a DishCOMM Modem connected to the phone line (see step 5, below), which eliminates the need for a physical phone-line connection to a receiver.

DishCOMM-compatible receivers also can use a HomePlug-to-Ethernet Adapter (if HomePlug 1.0 or HomePlug Turbo compatible) to connect to a broadband home network for additional features. See *Connecting a Broadband Internet Connection* on page 95.

Creating a DishCOMM Network

To enable communication between DishCOMM-compatible receivers and DishCOMM equipment, you must create a DishCOMM Network. Create a DishCOMM Network by "adding" compatible receivers and equipment (such as a DishCOMM Modem). Use a single receiver to enter the receiver (and modem) IDs on the DishCOMM Setup screen.

- 1 Access the DishCOMM Setup screen (MENU, System Setup, Installation, DishCOMM Setup).
- 2 Select **Scan** and wait for the receiver to find compatible DishCOMM equipment.
 - For receivers, you'll see the Receiver ID number from the System Info screen.
 - For receivers that may not be on your household's network, the system asks you if you want to add them to your DishCOMM Network anyway. You should add only receivers you know are in your household and on your DISH Network account.
 - For the DishCOMM Modem, it will be added automatically.
- 3 After all the equipment is added to the DishCOMM Network, select **Test** to test the network, or **Done** to save your changes. (Refer to tech.dishnetwork.com for additional information on DishCOMM or HomePlug testing.)
- 4 If one DishCOMM-compatible receiver has a physical phone-line connection, then this receiver's modem can be shared with other DishCOMM-compatible receivers in the home, as follows:
 - a Connect a phone line to one receiver.
 - b Create the DishCOMM Network (see instructions, above).
 - c Using the receiver that is connected to the phone line, go to the Phone System menu (MENU, System Setup, Installation, Phone System). Ensure that "Local" is displayed under Connection Mode.
 - d On the other receivers, access the Phone System menu, and ensure that "Remote" is displayed under Connection Mode.

- 5 If no receivers in the house have a phone jack located close enough for a physical connection, the DishCOMM Modem can be shared among multiple DishCOMM-compatible receivers, as follows:
 - a Connect a phone line to the modem.
 - b Create the DishCOMM Network (see instructions, above).
 - c Ensure that all receivers display "Remote" on the Phone System menu under Connection Mode.

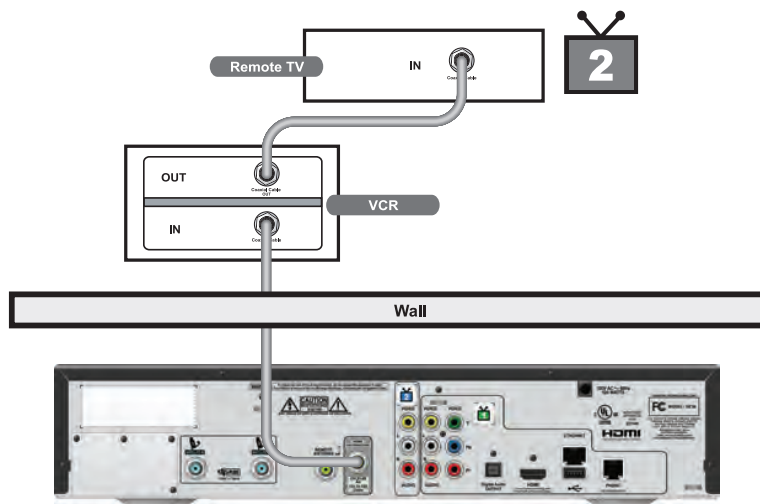
DishCOMM Considerations

Keep in mind these important considerations about using DishCOMM technology:

- If using a surge protector, one that is approved for use with HomePlug devices must be used, and the receiver(s) and/or DishCOMM Modem must be plugged into the HomePlug outlet of the surge protector.
- DishCOMM equipment should not be plugged into switched outlets.
- Dimmers for home lighting can interfere with DishCOMM. It is not recommended to use dimmers on the same circuit as DishCOMM equipment.
- Avoid plugging DishCOMM equipment into GFI (Ground Fault Interrupter) outlets as they may interfere with the communications.
- When sharing a receiver's modem, Caller ID must be enabled on both receivers to provide the information to the receiver that is not connected to a telephone line.

CONNECTING A VCR TO THE REMOTE TV

Below is an example of how to connect a VCR to your satellite TV system.



For this installation, always leave your VCR powered on so that the TV can receive satellite programming. If you turn off your VCR, your TV will not be tuned to the correct channel to receive satellite programming.

Note: Connecting your TV directly to the satellite receiver provides the best audio and video quality.

- 1 Connect the tuner input of the remote VCR to an existing wall cable outlet using a coaxial cable.
- 2 Connect a coaxial cable from the output on the VCR to the remote TV's tuner port.
- 3 Plug in and turn on the remote VCR and TV.
- 4 Tune the remote VCR to the remote TV channel that you use to watch satellite TV programming (for example, channel 60) as set on page 90.
- 5 Write the channel number you tuned your VCR to in the previous step on one of the TV2 channel stickers. Place the sticker on or near the VCR. This sticker will remind you which VCR channel to use to watch satellite programming. The stickers are located in the inside front cover of this guide.
- 6 Set the VCR output to channel 3 or 4.
- 7 Tune the remote TV to the same channel that you set your VCR to in step 6.
- 8 Write the channel number you tuned your TV to in the previous step on one of the TV2 channel stickers. Place the sticker on or near the TV. This sticker will remind you which channel to use to watch satellite programming. The stickers are located in the inside front cover of this guide.

CONNECTING AN OVER-THE-AIR ANTENNA

If you want to receive digital channels from an over-the-air antenna in addition to your satellite receiver programming, connect the over-the-air antenna to your ViP® series receiver's optional tuner module, or to your TV distribution equipment.

- The **MODULE EXPANSION PORT** on your receiver's back panel can be used to install an optional over-the-air tuner module which may be obtained separately. The module adds the capability of receiving and viewing local programming via an over-the-air antenna. For more information about installing the optional over-the-air tuner, see the *Over-The-Air Module Installation Instructions* that came with your tuner module.
- Once the optional tuner module has been installed, connect a VHF/UHF over-the-air antenna to the **OVER-THE-AIR ANTENNA IN** port on the back of the module. Peel off the black sticker and affix it to the cable close to where it connects to the back of the receiver. The stickers are inside the front cover of this guide.
- The remote TV can view over-the-air channels from the optional module in either Single Mode or Dual Mode. See *Dual and Single Modes* on page 10.
- For remote TV or TVs receiving programming from **HOME DISTRIBUTION**, the over-the-air antenna needs to be connected to your TV distribution equipment. When adding this connection, the FCC requires that you install appropriate equipment between the over-the-air antenna/coax and the satellite TV receiver to prevent you from accidentally retransmitting DISH Network programming (see FCC Compliance in the Appendix). TV distribution equipment devices include coax panels and amplifiers, available through many companies, or Super Home Nodes, available through DISH Network.
- You can add over-the-air channels (see page 100) and then assign them network affiliations. Once you have done this, you can access the channels via the Program Guide or the Browse Banner in much the same way as you would satellite channels.

Note: The type of TV antenna required depends on the channels used by, and the transmitting locations of, the local broadcast stations for your area. Visit www.antennaweb.org or contact a professional installer to help you select a suitable antenna.



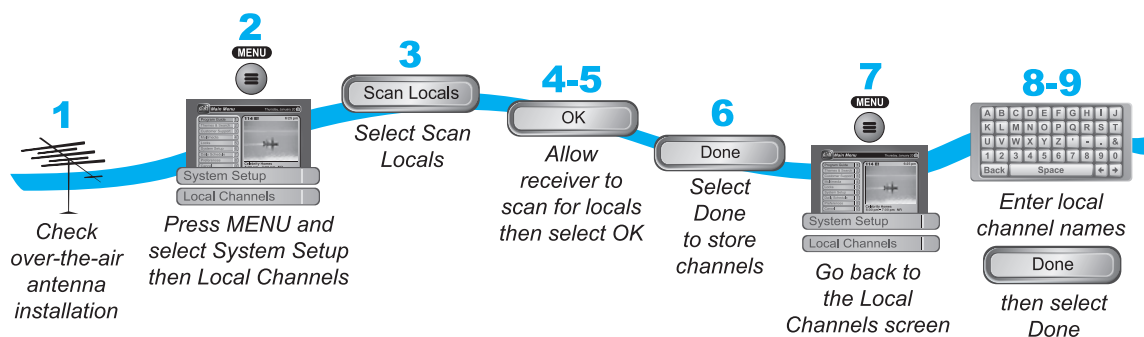
Make sure to follow the antenna installation instructions correctly. Ground an outdoor antenna per the National Electrical Code (NEC) and any local electrical codes.



The audio/video quality on local over-the-air channels depends on the distance and terrain between the broadcaster's transmitting station and your home, and on the placement and quality of the over-the-air TV antenna that you are using. If you have questions about over-the-air channels, contact the broadcaster, not DISH Network.

Scanning for Over-the-Air Channels

With an optional over-the-air tuner module installed, and over-the-air antenna adjusted for best reception, use these instructions to scan for over-the-air channels.



- 1 Make sure you have your over-the-air antenna connected to the optional module's **OVER-THE-AIR ANTENNA IN** connection.
- 2 Press **MENU**, select **System Setup**, and then **Local Channels**. If this is the first time you have opened the Local Channels screen, it will have no channels listed.
- 3 Scan for channels by selecting **Scan Locals**.
- 4 The scan will take a few minutes to complete. When it finishes, the results will show how many channels the scan found.

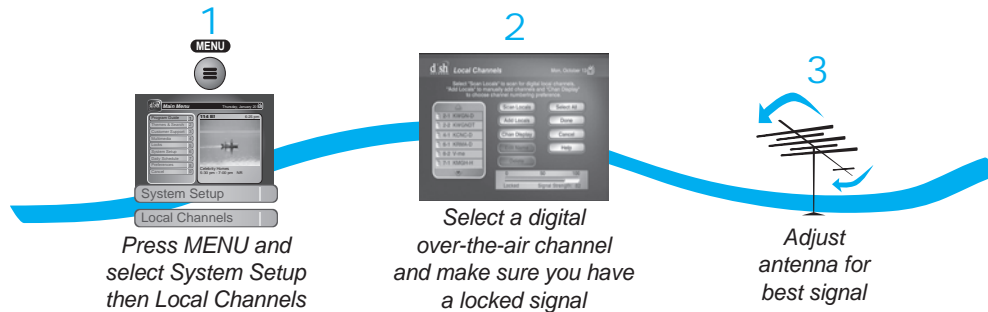
Note: If the scan does not find any channels, verify that the **Analog Type** is set to Offair on the HDTV Setup screen. Press **MENU**, select **System Setup**, and then **HDTV Setup**. If necessary, use the left or right **ARROW** keys to navigate to **Analog Type** and then the up or down **ARROW** keys to change the setting to Offair. Select **Done** when finished, and then start over at step 2 to scan for channels again.

- 5 Select **OK** to go back to the Local Channels screen.

Note: If the channel number says None, you have not yet assigned this channel a network affiliation or name. The arrow at the bottom left means that there are more channels off the bottom of the screen, which you can get to with the **ARROW** keys if you wish to edit their names or remove them.

- 6 If you want to name the over-the-air channels, continue to the next step. If you do not want to name these channels, select **Done**. You will then be taken out of the menus and back to watching TV.
- 7 Select a channel and then select **Edit Name** to modify the way the channel name displays on your screen.
- 8 Use the virtual keyboard on the screen to select the letters of your channel name.
- 9 When you are finished making changes, select **Done**.

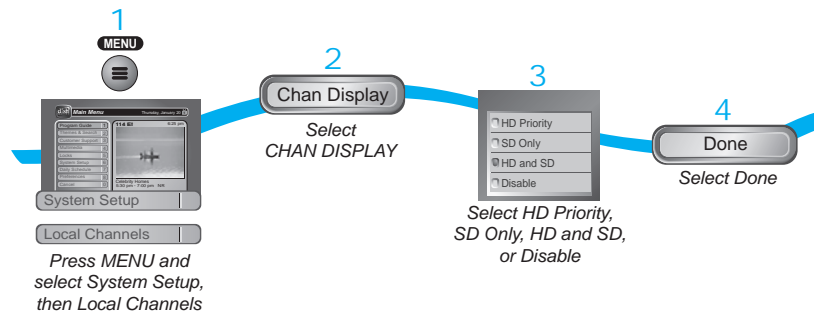
Peaking Your Over-the-Air Antenna



- 1 Press **MENU**, select **System Setup**, and then **Local Channels**.
- 2 Highlight the **Channel** field and use the **UP** and **DOWN ARROWS** to select a digital over-the-air channel. Make sure you see a green signal strength bar and a **Locked** indication on the meter.
- 3 Adjust the orientation of your antenna to maximize the signal strength. If you cannot get a **Locked** indication, you may need to upgrade your antenna or relocate it to a better position.

Using Local Satellite Channels

If you subscribe to the local satellite channels from DISH Network and want to see them in the Program Guide by broadcast number, select the **Sat Locals** option. Otherwise, local satellite channels will display in the four-digit channel range. Digital over-the-air channels display in the guide at the broadcast channel regardless of the setting you choose here.



- 1 Press **MENU**, select **System Setup**, and then **Chan Display**.
- 2 Select from the options under **Local Sat Channels**.
- 3 Select **HD Priority** (display HD local channels only, if available), **SD Only** (display SD local channels only), **HD and SD** (display both HD and SD satellite local channels) or **Disable** (cancel HD Priority default).
Note: Selecting **HD Priority** will cancel existing satellite local timers set for SD programs. Selecting **SD Only** will cancel existing satellite local timers set for HD programs.
- 4 Select **Done**.

Transmit Channel Numbers

For information on channel numbers, you can visit the National Association of Broadcasters (NAB) web page at www.nab.org.

For a list of digital broadcast stations and their Transmit Channel numbers go to www.nab.org/AM/ASPcode/DTVstations/dtvstations.asp.

Note: Where Transmit Channel is displayed by the receiver, the NAB web page uses the term RF Channel. These terms mean the same thing.

Another good source of local channel information is available from the Consumer Electronics Association (CEA) web page at: www.antennaweb.org. This website provides recommendations for antenna types and pointing directions.

About Optional Over-the-Air TV Broadcasts

Over-the-air TV signals are broadcast from stations on the ground, while satellite TV signals are broadcast from satellites in space. You receive over-the-air TV signals using an indoor or outdoor TV antenna instead of the satellite dish. You are likely familiar with analog over-the-air TV signals—these are the signals that have been used to broadcast TV for many years. New digital over-the-air TV signals are broadcast and received in the same way. Digital over-the-air TV broadcasting uses advanced technology like that of DISH Network to deliver superb picture quality and CD-quality sound. However, digital over-the-air signal reception (like analog over-the-air signal reception) depends on several factors:

- The distance between the broadcaster's transmitting station and your home (the farther away the transmitter, the weaker the signal).
- The broadcast station's power (the lower the power, the weaker the signal).
- Obstacles between the transmitter and your home, such as mountains, buildings, trees, or other objects (these may block or reflect the signal before it reaches you).
- Multiple transmitting stations (to receive good signals from several stations, you may need to compromise in how you aim the antenna or you may need more than one antenna).

The effects of poor digital reception are different from the effects of poor analog reception:

- Poor analog reception usually causes the TV picture to be “snowy” or to include “ghosts,” that is, multiple images caused by receiving reflected signals along with the direct signal from a station.
- Poor digital reception may cause the TV picture to be “pixelized,” that is, broken up into small squares of various colors, or to be lost completely (the TV screen is all black or all blue).
- Digital broadcasts often provide either a very good picture or no picture at all.
- You may be able to receive a poor analog signal but not be able to receive a digital signal at all.

Connecting an Over-the-Air Antenna

To get the best possible digital signal reception, make sure you use the best over-the-air antenna for where you live:

- You can receive a limited number of channels using a rabbit ears-type antenna on top of the TV set, or a much larger number via a large UHF/VHF indoor/outdoor antenna.
- The higher the quality of the antenna you use, the greater its range and the better its reception will be.

Digital OTA Broadcasts are Still Developing

- Broadcasters may still be testing the transmission of digital signals and their strength, and may stop broadcasting without notice, vary power output, or turn it off.
- Some broadcasters do not yet have a permanent transmitter tower.
- Broadcasters may choose to multicast, which allows them to provide multiple standard-definition channels in the same bandwidth used to provide a high-definition channel.

These factors are outside of DISH Network's control.

Additional Installation Considerations

- Follow local and National Electric Code requirements for grounding the antenna.
- RG-6 coaxial cable is preferred for the **OVER-THE-AIR ANTENNA IN** line. If you are diplexing the **OVER-THE-AIR ANTENNA IN** and **SATELLITE IN** cables, then RG-6 coaxial cable must be used.
- You cannot use a diplexer to combine the **OVER-THE-AIR ANTENNA IN** and **SATELLITE IN** cables if you are using an amplified TV antenna.
- If you are using a diplexer to combine the TV2 Home Distribution signal of the receiver and the **OVER-THE-AIR ANTENNA IN**, you must use a Super Home Node to prevent accidentally broadcasting the Home Distribution signal via the antenna.

If you have questions about over-the-air channels, contact the broadcasters, not DISH Network. DISH Network does not broadcast over-the-air signals and so cannot do anything to change over-the-air signal quality. However, when the optional over-the-air tuner module is installed, the receiver's digital channel setup menus provide a signal strength bar that can help you in aiming your over-the-air TV antenna for the strongest possible signal.

USING TROUBLESHOOTING TOOLS

Your receiver and remote control have troubleshooting tools that a Customer Service Representative may ask you to use if you should ever run into problems while using your equipment. Even though these tools are quite helpful, it is recommended that you only use them when on the phone with a DISH Network representative.

Running the System Wizard

A Customer Service Representative will instruct you when to run the wizard.

- 1 Press and hold the System Wizard (NUMBER 0) button on your remote control until the SAT mode light blinks.
- 2 When the SAT mode light goes out, release the System Wizard button and follow the on-screen instructions.

The receiver may take several minutes to complete the data sharing process.

Resetting Your Receiver

A Customer Service Representative will instruct you when to reset the receiver.

- 1 Press the red RESET button on the front panel of the receiver.
- 2 The receiver's front panel lights will blink and the receiver will restart.

The receiver may take several minutes to restart, reacquire satellite signals, complete software downloads, and display video again.

Receiver Diagnostics

The Customer Service Representative may ask you to open the Diagnostics screen. Remember to have an active phone line connected to your receiver.

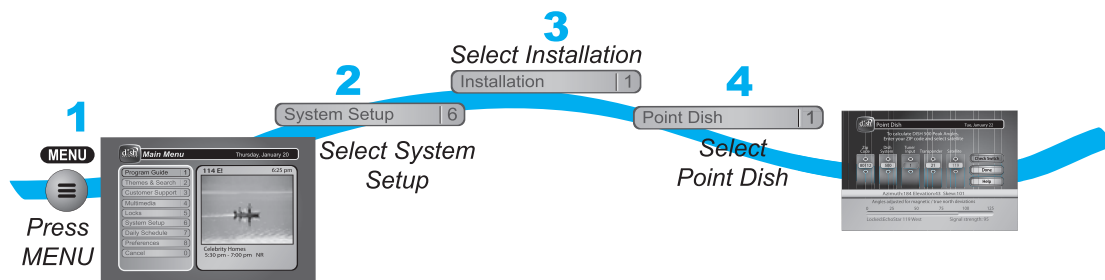
- 1 Press MENU, select **System Setup**, and then select **Diagnostics**. The Diagnostics screen shows you various tests the Customer Service Representative may ask you to perform on your receiver:
 - **Connection:** Tests for a valid receiver phone connection.
 - **Dial Out:** If "No Dial Out Pending" is displayed, the receiver does not need to have its smartcard records updated.
 - **Counters:** Shows you a list of diagnostic counters. Use PAGE UP and PAGE DOWN to scroll through the list of counters displayed.
- 2 Select **Done**.

Point Dish and Check Switch

The Point Dish and Check Switch screens are helpful to the Customer Service Representatives. You may be asked to display these screens when you call DISH Network. Even though there are items that can be changed, only change them when specifically directed by a Customer Service Representative.



Warning: Running the Check Switch test while the receiver has low or no signal will result in incorrect receiver settings and cause you to lose channels. Do not run a Check Switch test unless directed to by a Customer Service Representative or other DISH Network instructions.



- 1 Press **MENU**.
- 2 Select **System Setup**.
- 3 Select **Installation**.
- 4 Select **Point Dish**. This screen shows you information to help maximize your satellite signal. The bar at the bottom of the screen tells you the signal strength. Green is a good signal, yellow is a marginal signal, and red indicates the signal is not acceptable or is from the wrong satellite.

Chapter 11

Using Troubleshooting Tools

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Troubleshooting and Remote Codes

What you'll find in this chapter:

- **TROUBLESHOOTING TABLES**
- **REMOTE CONTROL DEVICE CODES**

TROUBLESHOOTING TABLES

Use these tables if you have problems using the system. Look in this section for a description of the problem before calling the Customer Service Center. Many problems arise from basic misunderstandings of how the system works, especially when you are just becoming familiar with it. To solve a particular problem, do the following:

- 1 Review the section in this Guide that relates to the problem.
- 2 If you cannot find a solution, then find the section in the following tables that relates to the problem.
 - Read the What's Happening column until you find the problem.
 - Read the information in the Possible Reason column.
 - Try each of the suggested solutions in the What to Do column.
- 3 Sometimes resetting the receiver can fix a minor problem. See *Resetting Your Receiver* on page 104.
- 4 Make sure your TV is tuned to the correct channel or input. Use RECOVER as described on page 70.
- 5 Make sure your remote control has fresh batteries. If you see the Remote Battery Low warning on your TV screen, it's time to change the batteries. Follow the instructions on page 15.
- 6 Make sure your receiver is connected to an active telephone line or broadband network. See the instructions on page 94 or page 95.
- 7 Check for anything that might be blocking the dish antenna's view of the sky, such as tree branches or snow.
- 8 For more information, call the Customer Service Center at 1-800-333-DISH (3474), or see www.dishnetwork.com or tech.dishnetwork.com.

Note: Before calling the Customer Service Center, have ready the date of purchase and either your customer account number, the receiver conditional access number, or the receiver model number. Press the SYSTEM INFO button on the receiver's front panel to display the System Information screen to find these numbers (See *Ordering Your Programming Packages* on page 4). Also, write down any error messages that the receiver displays on your television screen.

Message Numbers

Message Number	Possible Reason	What to Do
001	There may be a problem with the multi-dish switch.	Check the coaxial cables and their connections to and from the multi-dish switch. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Run Check Switch as described on page 105. If this does not work, call the Customer Service Center at 1-800-333-DISH (3474) for help.
002	Heavy rain, snow, or cloud cover may be interfering with transmission of the satellite signal, or there may be other interference.	<ul style="list-style-type: none"> Note the local weather conditions. Remove any snow or other debris which may have collected on the satellite dish. Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Make sure that the satellite dish is aimed at the satellite. Check the strength of the signal using the Point Dish screen as described on page 105. Consult your installer to re-aim the dish, if necessary, to obtain the strongest possible signal.
003, 004	The wrong type of coaxial cable may be used in the system, or the cable run length may be too long. There may also be a problem with the multi-dish switch.	<ul style="list-style-type: none"> Make sure the system uses RG-6 coaxial cable; if not, call your dealer or installer. Check the dish-to-receiver cable run length. If your system is DISH Pro, it can be as much as 200 feet. If it is a Legacy system, it should not be more than 100 feet. Check the coaxial cables and their connections to and from the multi-dish switch. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). If this does not work, do the Check Switch test described on page 105.
005	The receiver may not have received authorization for programming yet. The satellite dish may have moved so that it is no longer picking up the satellite signal. The cable connections may have loosened or have moisture inside. There may be an interruption of the satellite signal.	<ul style="list-style-type: none"> If you have authorized the receiver (added it to your account), wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 105. If not, contact your installer to re-aim the satellite dish. If you have not authorized the receiver, call the Customer Service Center at 1-800-333-DISH (3474).
006	The receiver may not be connected to an active telephone line or broadband Internet connection.	You must connect each installed receiver to an active telephone line or broadband Internet connection.
011, 012	Viewers in specific areas are prohibited from watching certain programs. For example, viewers who live close to a particular football stadium may be prohibited from watching football games that are played in that stadium.	Program providers specify which programs are blacked out for specific areas, not DISH Network.
013, 014	You may have tried to tune to a program on a channel that you don't subscribe to.	<ul style="list-style-type: none"> You must subscribe to a channel before you can tune to a program on that channel. Call the Customer Service Center at 1-800-333-DISH (3474) to subscribe or if you believe this message was displayed by mistake. If you subscribe to the channel and you see these messages, reset the receiver (page 104).

Reference

Troubleshooting Tables

Message Number	Possible Reason	What to Do
015	You may have just plugged in the receiver and it is acquiring the satellite signal or the receiver may have temporarily lost the signal.	<ul style="list-style-type: none"> • Wait a few minutes to see if the message goes away. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). • Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 105. If not, contact your installer to re-aim the satellite dish.
018	The receiver may not be connected to an active telephone line or broadband Internet connection.	<ul style="list-style-type: none"> • You must connect the receiver to an active telephone line or broadband Internet connection at all times. • Call the Customer Service Center at 1-800-333-DISH (3474) for help checking the credit limit and/or to get authorization to make a purchase.
022	The receiver may not have received authorization for programming yet. The satellite dish may have moved so that it is no longer picking up the satellite signal. The cable connections may have loosened or have moisture inside. There may be an interruption of the satellite signal.	<ul style="list-style-type: none"> • If you have authorized the receiver, wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). • Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 105. If not, contact your installer to re-aim the satellite dish. If you have not authorized the receiver, call the Customer Service Center at 1-800-333-DISH (3474).
026	The receiver may have temporarily lost the satellite signal.	<ul style="list-style-type: none"> • Wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). • Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 105. If not, contact your installer to re-aim the satellite dish.
028	The receiver may need to get new software before you can use it to order Pay-Per-View programs.	Turn the receiver off. Doing this allows the receiver to download new software via the satellite signal. The download may take several minutes; do not disturb or unplug the receiver during this time. When the download is done, you will be able to use it to order Pay-Per-View programs.
059	You may have tried to close an installation menu without having done the Check Switch test.	If your setup includes a multi-dish switch, you must run the Check Switch test as described on page 105.
060	You may have aimed the satellite dish at one satellite, but selected the option for another satellite on the Point Dish screen.	<ul style="list-style-type: none"> • Make sure that you have selected the option for the right satellite on the Point Dish screen, as described on page 105. • Make sure that the cable(s) for the satellite you have selected is connected to the LNBF that receives signals from that satellite. Re-aim the satellite dish at the right satellite.
061	The receiver is downloading current software.	It is very important for the receiver to get the latest software to function properly. The download may take several minutes. Do not disturb or unplug the receiver during this time.
074	The receiver gives you three chances to enter the correct password. If you fail to do so, the receiver "times out" and will not allow you to try again for several minutes.	Wait a few minutes and then try again to enter the password. Note: The "time out" feature is designed to prevent someone from trying password after password until he or she happens to guess the right one and gains unauthorized access to the receiver.

Message Number	Possible Reason	What to Do
078, 079, 080	You may not have connected the receiver to an active telephone line or broadband Internet connection, or the telephone line or Internet connection may be defective.	Connect the receiver to an active telephone line or broadband Internet connection. Make sure that the telephone line or Internet connection to which you connect the receiver is working properly. Note: To order Pay-Per-View programs, you must keep each receiver connected to an active telephone line or broadband Internet connection. The receiver uses the telephone line to make toll-free calls (when the phone is not in use) or the Internet connection to send purchase information to DISH Network.
093	You may have selected the Reset Factory Defaults option.	If you want to reset the receiver to its factory default settings, select Yes . If you do not want to reset factory defaults, select No .

Changing Channels

What Is Happening	Possible Reason	What to Do
You enter a desired channel number. The channel changes, but the new channel is not exactly the channel you entered.	<ul style="list-style-type: none"> You may have made a mistake entering the channel number, or the channel number you entered may be invalid. If so, the channel displayed is the closest possible to the channel you entered. If a Favorites List other than All Chan is applied, the receiver will skip channels that are not on the applied list. 	<ul style="list-style-type: none"> Carefully try entering again the channel number you want. Reset the receiver (page 104). Press GUIDE on the remote control and change the Favorites List.
When changing channels, using the Program Guide, Browse, or other channel lists, some of the channels you subscribe to are not listed.	<ul style="list-style-type: none"> If you entered the number for a channel that you have not subscribed to, the receiver will change to the channel and display a message indicating it is not part of your subscription. If a Favorites List other than All Chan is applied, the receiver will skip channels that are not on the applied list. If you have set up the receiver to hide adult channels or to hide locked channels, these channels are not displayed in the Program Guide or other channel lists. 	<ul style="list-style-type: none"> If you want to subscribe to a channel, go to www.dishnetwork.com/myaccount, select the Customer Support option from the receiver's menu, or call the Customer Service Center at 1-800-333-DISH (3474). Press GUIDE on the remote control, and press it again until it says All Chan at the top of the screen. Change the Hide Adult or Hide Locked setting to include these channels in the Program Guide and other channel lists.

Remote Control

What Is Happening	Possible Reason	What to Do
You cannot find the remote control.	N/A	Use the receiver front panel Control Buttons to control the receiver until you find the remote. If the remote control is permanently lost or too damaged to use, call the Customer Service Center to order a replacement.

Reference

Troubleshooting Tables

What Is Happening	Possible Reason	What to Do
<p>When you press a button on the remote control, the receiver does not do what you expect.</p>	<ul style="list-style-type: none"> The remote control may be missing batteries, the batteries may be incorrectly placed in the remote, or the batteries may be weak or dead. The remote control may be in the wrong mode. You may be using the wrong remote control (1 or 2) for the menus (TV1 or TV2) you are trying to operate. 	<ul style="list-style-type: none"> If the batteries are missing or dead, insert fresh AAA-size batteries. If the remote has fresh batteries, check whether they are placed according to the label diagram. If not, remove them and place correctly. Press the mode button for the device you want to control. Make sure you are using Remote Control 1 (or 2) to control TV1 (TV2) menus.
<p>Your UHF Pro remote control does not work well from far away.</p>	<p>You may be experiencing UHF interference from objects near your receiver antenna.</p>	<ul style="list-style-type: none"> Make sure the remote control antenna is connected to the REMOTE ANTENNA port on the receiver's back panel. Make sure the remote control antenna is not touching any other equipment or any back panel connections on your receiver. Provide space above the receiver so the antenna can be installed straight up. Place the receiver higher than the other equipment in your entertainment center. Move the antenna away from the back of the entertainment center wiring and other electronics using a short piece of coaxial cable (3 to 5 feet). Connect an F-connector attenuator between the receiver's REMOTE ANTENNA port and the remote control antenna. Refer to page 59. Change the UHF Frequency of the remote control. Refer to page 58.
<p>When you press the remote control POWER button to turn the receiver on, the receiver front panel power light does not light up.</p>	<ul style="list-style-type: none"> The remote control may be in the wrong mode. Other lights are too bright. Remote control is not operating properly or the batteries are weak or dead. The receiver power cord is not plugged into a power outlet, or there may be a problem with the power. The remote control(s) may not be set to the address(es) used by the satellite receiver. You may be using the wrong remote control (1 or 2) for the menus (TV1 or TV2) you are trying to operate. If the receiver is in Single Mode, the TV2 indicator will not light. 	<ul style="list-style-type: none"> Press the mode button for the device you want to control. Try other remote control buttons to see if the receiver is responding. Replace the remote batteries with fresh ones. Check that the receiver power cord is not damaged, and that the plug is inserted correctly into the outlet. Make sure the remote control(s) are set to the same address(es) used by the satellite receiver. See page 56 for information on changing the remote control address. Make sure you are using Remote Control 1 (or 2) to control TV1 (TV2) menus. This is normal. No action required or switch to Dual Mode.

What Is Happening	Possible Reason	What to Do
You use an IR extender (not a "mouse tail"), and it does not seem to work.	<ul style="list-style-type: none"> The IR sensor on the extender that receives the remote control signals may not be facing the remote control. The IR cable on the extender that sends the signal to the receiver may not be right in front of the IR sensor on the receiver front panel. You are using Remote Control 2 set to not transmit IR signals. 	<ul style="list-style-type: none"> Make sure that the extender that receives the signal from the remote control is facing the right way, so that the IR sensor can receive the remote control signals. Make sure that the IR cable on the extender that sends the signal to the receiver is right in front of the IR sensor on the receiver front panel, so that the receiver IR sensor can receive the signals. If doing the above does not solve the problem, contact the manufacturer of the IR extender for assistance. Use an IR extender only with Remote Control 1, which uses IR signals. Use the correct remote control.

Program Guide or the Browse Banner

What Is Happening	Possible Reason	What to Do
In the Program Guide, some channels have a red background.	Red means that you have not subscribed to that channel. You must subscribe to a channel before you can tune the receiver to it.	<ul style="list-style-type: none"> If you want to subscribe to a channel, go to www.dishnetwork.com/myaccount, select the Customer Support option from the receiver's menu, or call the Customer Service Center at 1-800-333-DISH (3474). Reset the receiver (page 104).
You try to display future programs in the Program Guide or Browse Banner, but you cannot.	The Program Guide and Browse Banner can display the scheduled programming for up to nine days.	Try displaying the Program Guide again later. By that time, it may show programs for the time and date you want.
You try to display programs that have ended in the Program Guide or Browse Banner, but find you cannot.	The Program Guide and Browse Banner can display only programs that have not yet ended. These features cannot display a time earlier than the present.	Contact the program providers (for example, the channel or network affiliate that broadcast the program) for details on past programs.
When you are using the Program Guide or Browse Banner, some channels are missing.	<ul style="list-style-type: none"> You may have applied a Favorites List other than the list named All Chan. You may have set up the Program Guide so that when the receiver is locked, the Guide hides adult channels 	<ul style="list-style-type: none"> You can change the applied Favorites List while using the Program Guide by pressing the remote control GUIDE button. You can choose another custom Favorites List, the All Chan list, which includes all the channels, the All Sub list, which includes all subscribed channels, and the All HD list, which includes all subscribed HD channels. Unlock the receiver for the Program Guide to display adult channels.

Reference

Troubleshooting Tables

Watching a Program

What Is Happening	Possible Reason	What to Do
The receiver's front panel power light is on, but the TV image is black, blue, or snowy.	<ul style="list-style-type: none"> The TV set may not be working properly. The TV may be connected to the wrong input. If the TV and the receiver are working properly, there may be interference with the satellite signal. 	<ul style="list-style-type: none"> Verify the TV is set to the correct input or channel for your setup. Make sure that the TV set is plugged into a working electrical outlet. Make sure that the TV is turned on. Use the RECOVER button (page 70). Make sure that the TV is connected properly to the receiver. Make sure that the TV's text mode and Closed Captioning features are turned off. Make sure that the TV brightness and contrast are adjusted correctly.
The TV image has pixels (small squares), is freezing, or you have intermittent black screens.	Your receiver may be experiencing signal loss due to something blocking your dish's view of the sky, the dish being mis-aligned, or weather.	<ul style="list-style-type: none"> Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Make sure that the satellite dish is aimed at the satellite. Check the strength of the signal using the Point Dish screen, as described on page 105. Consult your installer to re-aim the dish, if necessary, to obtain the maximum possible signal strength. Note the local weather conditions. Heavy rain, snow, or cloud cover may be interfering with transmission of the satellite signal. Remove any snow or other debris which may have collected on the satellite dish.
The receiver's front panel power light is on, and there is a picture on the TV screen, but the picture: <ul style="list-style-type: none"> has sparkles or is grainy has a herringbone pattern lacks color or vertical hold wobbles looks "washed out" or fuzzy. 	<ul style="list-style-type: none"> If the receiver is connected to the remote TV using the RF or VHF connections, there may be a strong local broadcast on the same channel, or a channel adjacent to the one to which the TV is tuned. The TV set may not be working properly. There may be interference from other nearby electrical devices (such as radio towers, cellular telephones, computers, microwave ovens, radios, stereos, or TVs). 	<ul style="list-style-type: none"> Make sure that the TV is connected properly to the receiver. Make sure that the TV brightness and contrast are adjusted correctly, and that the TV is working properly. Check other nearby electrical devices as possible sources of interference. Check that all required coaxial cables are in place. Check for moisture or water leaking into all connections. Dry them out if needed, then seal them with coaxial cable sealant. Check the length of cable between your dish and receiver. If it is greater than 200 feet, contact the person who installed your system. Make sure the system is properly grounded.
A "black box" fills almost all of the TV screen.	You may have turned on the Closed Captioned feature on the TV, and put that feature into Text mode.	Using the TV remote control and/or menus displayed by the TV (not the receiver remote control or the menus displayed by the receiver), turn off the Closed Caption feature.
The TV screen is all blue.	You may have connected the receiver to an input on the TV that is incorrect for the signal output from the receiver.	<ul style="list-style-type: none"> Check your TV owner's manual for the correct TV input to use for the signal output from the receiver. Use the RECOVER button (page 70).

Favorites Lists

What Is Happening	Possible Reason	What to Do
You press the remote GUIDE button while the Program Guide is displayed. You find that you can apply only the All Chan, All Sub, or All HD list.	If you have not added channels to any custom Favorites List, you will be able to apply only the All Chan, All Sub, or All HD lists.	You must add channels to a custom Favorites List before you can apply it.
You try to change the All Chan, All Sub, or All HD list. The receiver displays an ERROR message.	The receiver will not allow you to change the All Chan, All Sub, or All HD lists.	Choose another list to change. The All Sub list includes all channels that are part of your subscription. The All HD list includes all high-definition channels that are part of your subscription.
You try to apply an empty Favorites List. The receiver displays an ERROR message.	The receiver will not allow you to apply an empty list.	Choose another list to apply, or add at least one channel to the empty list.
A Favorites List does not show channels that you know you have added to it.	If you have set the receiver to hide adult channels or hide locked channels, these channels are not included in the Program Guide or other channel lists.	Change the Hide Adult or Hide Locked setting on your receiver if you do not want these channels excluded from the Program Guide or other channel lists. Refer to page 44.

Timers

What Is Happening	Possible Reason	What to Do
You try to set up an event timer and the receiver displays a message noting that the program is locked.	You must enter the password before you can create an event timer for a locked program.	To create an event timer for the program, first enter the password.
You try to set up an event timer and the receiver displays a message noting that the program is a Pay-Per-View event.	You must order a Pay-Per-View event before you can create an event timer for it.	To create an event timer for the event, first order it.
You try to set up an event timer, but the receiver displays an Error message giving you the option to delete an event timer that was set up earlier.	You already have set up the maximum number of event timers.	To create a new event timer, delete one of the event timers you set up earlier.
You set up an event timer, but the receiver does not tune to the program's channel, or the VCR does not record the program.	You may have set up a Reminder, but what you should have set up is an Auto-Tune or a VCR timer.	Remember that a Reminder just reminds you that the program is about to start. An Auto-Tune timer both reminds you <i>and also</i> tunes the receiver to the program. A VCR timer reminds you, tunes the receiver to the program's channel, and signals a properly connected VCR to record the program.
You set up an event timer for a program that is repeated (such as a regularly scheduled program), but the timer does not operate for a showing of the program.	<ul style="list-style-type: none"> You may have set up a timer with an incorrect frequency. You may have set up a duplicate timer. The timer may not be current. 	Remember that a Once event timer operates just one time. A Mon.-Fri. event timer operates Monday through Friday on the same channel at the same time. A Daily event timer does the same, Monday through Sunday. A Weekly event timer operates once a week on the same channel at the same time. All Episodes timers apply to every showing of that program, while New Episodes timers apply only to the current season. See <i>Special Considerations When Using Timers</i> on page 52.

Reference

Troubleshooting Tables

What Is Happening	Possible Reason	What to Do
You set up an event timer, but the timer does not operate at all.	<ul style="list-style-type: none"> You have tried to set up several timers for the same time. You may have selected New Episodes and the timer you set was for an episode that is not new (previously shown). 	<ul style="list-style-type: none"> Check for Overlapping Timers, as described on page 54. Check the Timer Frequency as described on page 50. See <i>Special Considerations When Using Timers</i> on page 52.
You set up a repeating timer and you notice that you have exceeded timer maximums.	The repeating timer may have included more programs than you expected.	Delete that timer and begin again. See page 54 for information on deleting timers.
You stop the operation of an event timer for one showing of a program that is repeated (such as a regularly scheduled program), but the timer operates for the next showing.	Stopping the event timer applies only to the current showing of the program.	To stop all operations of a repeated event timer, you must delete the event timer. Note: The receiver deletes a Once event timer when it operates.
You try to set up a manual event timer. The receiver displays an Error message.	You may have tried to set a manual event timer with invalid start or stop times.	Review the information on manual event timers on page 53.
The receiver does not display the program name for a manual event timer.	The receiver may not be able to display a program name for a manual event timer.	Use the Program Guide or a printed schedule to find the program name.
You set an event timer. The event timer misses the beginning or the end of a program.	The program may have started a little earlier than scheduled, or it may have run over its scheduled ending time.	<ul style="list-style-type: none"> Use the Start Early & End Late options, except for a Pay-Per-View event. Use a manual event timer to start any event timer at the times you set yourself, except for a Pay-Per-View event.

Hearing a Program

What Is Happening	Possible Reason	What to Do
The receiver's front panel power light is on and there is a good picture on the TV set, but you do not hear any sound.	<ul style="list-style-type: none"> You may have muted the sound, or set the volume so low that you cannot hear it. The audio connections may not be properly connected. You have selected Dolby Digital Only when there is no Dolby Digital soundtrack. 	<ul style="list-style-type: none"> Check the volume level on the TV or audio device. Turn off the mute or turn up the volume, as required. Check the audio connectors and cables from the receiver to the TV or the sound system. Check the TV speakers or the sound system. In the Dolby Digital menu, select Dolby Digital/PCM for the audio output. If your decoder/amplifier will not accept Linear PCM digital input, use the analog audio connections instead.
You hear a foreign language with a program.	You may have set the receiver to select an alternate audio language. The program may be in a foreign language.	Press the MENU button on your remote. From the Main Menu, select Preferences , then Alternate Audio , and choose the language that you prefer.

Caller ID

What Is Happening	Possible Reason	What to Do
Caller ID is not working.	<ul style="list-style-type: none"> You do not have Caller ID service from your local phone company. Your phone line is not connected to the phone jack on the back of the receiver. You do not have the Caller ID option enabled. 	<ul style="list-style-type: none"> Verify that Caller ID is a service provided by your local phone company and you have subscribed to it. Verify that you have connected the phone line to the phone jack on the back of the receiver. Press the MENU button on your remote. From the Main Menu, select System Setup, then Installation, and then Caller ID. Select the Enable Caller ID option.

Telephone for Voice/Data/FAX

What Is Happening	Possible Reason	What to Do
While you are making a telephone call, you hear "clicks."	The receiver may have tried to send Pay-Per-View purchase information to DISH Network using your phone line. When the receiver found that the telephone was busy, it automatically disconnected.	You do not have to do anything. You can always use your telephone line, because the receiver automatically hangs up if it finds the line is busy.
You pick up the telephone to make a call, but you do not hear a dial tone.	The receiver was sending Pay-Per-View purchase information to DISH Network using your phone line. When the receiver found that the telephone was busy, it automatically disconnected.	Hang up, and then pick up the telephone again to get a dial tone.
Your computer or FAX machine tries to send a FAX or modem transmission, but fails.	The receiver was sending Pay-Per-View purchase information to DISH Network using your phone line. When the receiver found that the telephone was busy, it automatically disconnected. The fax or modem found that there was no dial tone, and cancelled the transmission.	Re-send the FAX or modem transmission.
Your computer or FAX machine was receiving a FAX or modem transmission, but an error occurred.	The receiver may have tried to send Pay-Per-View purchase information to DISH Network using your phone line during the fax or modem call. When the receiver found that the telephone was busy, it automatically disconnected. This generated "clicks" that caused an error in the FAX or modem transmission.	Have the sender resend the FAX or modem transmission.

Reference

Troubleshooting Tables

Locks

What Is Happening	Possible Reason	What to Do
You set a lock (for example, a lock on programs by ratings), but the lock does not take effect.	You may not have locked the receiver.	You must lock the receiver to apply any lock that you have set.
You forgot the password, so that you are unable to unlock the receiver.	You may not have written down the password.	Call the Customer Service Center at 1-800-333-DISH (3474). You must be able to verify your account information with the customer service representative.

Buying a Pay-Per-View Program

What Is Happening	Possible Reason	What to Do
Someone orders a Pay-Per-View program without your permission.	You may have been away from the receiver, and someone else used it.	Lock the purchase of Pay-Per-View programs. Remember that you are responsible for all Pay-Per-View purchases, whether or not you authorize such purchases. If you lock Pay-Per-View purchases, then anyone who wants to order a Pay-Per-View program must enter the password.
You find that you are not able to order a Pay-Per-View program.	The receiver may not be connected to an active telephone line or broadband Internet connection.	Connect each receiver to a phone line or a broadband Internet connection for Pay-Per-View ordering using the remote control.
You find that you are not able to cancel a Pay-Per-View program.	You ordered a Pay-Per-View program, and then decided not to watch it.	You cannot cancel an order for a Pay-Per-View program, whether it was just ordered or ordered earlier.
Your setup includes more than one receiver. You order a Pay-Per-View program, but it does not appear on all of the receivers.	You ordered a Pay-Per-View program, and want it to be available on all the receivers in your setup.	If you want to watch a Pay-Per-View program on TVs connected on each receiver, you must order the program for each receiver but you only pay for the program once.

Menus

What Is Happening	Possible Reason	What to Do
You were using a menu, and it suddenly closed.	You may not have done anything with the remote control or front panel buttons for several minutes.	The receiver has a time-out feature that closes any menu after several minutes of no activity. This will discard any changes you have made, but otherwise does no harm to the receiver. Start over again.

REMOTE CONTROL DEVICE CODES

These tables contain the manufacturer codes for programming the remote to control your TV, VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your device brand is not listed or if the codes do not work, the remote may not control your device. In some cases, codes may operate some but not all buttons shown in this guide.

TV Codes

Programming in AUX mode: In most cases use these codes to program in TV mode; but if programming in AUX mode, press 0 before entering the TV code.

Abex 658 730
 Acer 511
 Action 662
 Admiral 521 572 675 739 834 835
 Advent 653 842 912
 Adventura 840
 Aiko 727 778
 Akai 570 573 592 612 627 652 754 795 807
 808 906 907 908
 Albatron 692 804
 Alleron 534
 A-Mark 620 804
 Ambassador 686
 America Action 682
 Amtron 657
 Anam 682
 Anam National 509 541 620 651 657 698
 AOC 505 506 519 520 573 582 620 627 653
 654
 Apex 552 595 743 744 745 757 771 802 815
 Archer 620 804
 Astar 594
 Audiovox 528 565 620 623 624 657 662 682
 778 832
 Aventura 733
 Axion 636
 Bang & Olufsen 514 665
 Baycraft 536
 Belcor 627 773
 Bell & Howell 590 675 683
 Benq 511 535
 Bradford 657 682
 Brilliant 558
 Brockwood 627
 Broksonic 682 748 750 752 754 834 899 908
 ByD:sign 792
 Candle 506 523 525 536 627 654 840
 Candle/Citizen 573
 Capehart 519 627
 Carnivale 627
 Carver 761
 CCE 528 816
 Celebrity 652 795 797 798 807
 Celera 744 745
 Changhong 744 745
 Cinerall 697
 Circuit City 627
 Citizen 506 516 523 524 525 526 590 627 654
 657 658 664 680 727 778
 Clairtone 698
 Clarion 682
 Coby 626 633
 Colortyme 573 627 654
 Colt 660
 Commercial Solutions 645 650
 Concerto 523 652 654
 Contec 682
 Contec/Cony 541 655 657 658 662
 Craig 536 541 657 662 682 694

Crosley 761
 Crown 526 536 657
 CTX 804
 Curtis Mathes 503 506 516 528 572 573 590
 627 641 645 650 654 658 680 683 739
 761 830 832
 CXC 541 657 662 682
 Cytron 903 904
 Daewoo 505 524 528 530 531 573 627 630
 653 654 658 684 719 727 778 816 832
 Dayton 627 654 658
 Dell 518 676 772 773 774
 Denon 786
 DiamondVision 546 643 659
 Dimensia 503 645 830
 DISH Network 742 763
 Dixi 566 620 761 897
 Dumont 501 627 711 813
 Durabrand 533 627 682 733 834 843
 Dwin 572 739
 Electroband 652 795 797 798 807
 Electrograph 507
 Electrohome 573 627 651 652 654 709 728
 795 807
 Element 591 669
 Emerson 528 534 536 541 573 590 618 627
 636 642 646 654 655 657 658 662 664
 682 683 733 777 816 832 834 846 899
 Emprex 597
 Envision 506 573 627 654
 Epson 708
 ESA 733
 Fisher 542 590 595 683 802
 Fortress 573
 Fujitsu 534 602 603 694
 Funai 534 541 587 657 662 682 694 733 756
 Futuretech 541 657 662 682 694
 Gateway 507 511 710
 GE 503 508 509 528 543 544 627 645 650
 651 654 661 690 728 742 749 779 830
 832 857 859
 General Electric 627
 Gibraltar 501 627 711 813
 Go Video 696
 Goldstar 505 523 545 566 573 627 653 654
 655 658 693 720 730 761 897
 Gradiente 540
 Granada 627
 Grand 627
 Grunpy 534 657 682
 Hallmark 627 654
 Harley Davidson 756
 Harman/Kardon 561 627 761
 Harvard 657 682
 Havermy 572 739
 Helios 901
 Hello Kitty 528 832
 Hewlett Packard 712 911
 Hinari 534
 Hisense 759
 Hitachi 523 549 554 555 585 627 638 654 655
 658 756 786 788 789 790 791
 HP 599 712 721 911
 Hyundai 695
 iLo 559 596 625
 IMA 657
 Infinity 566 656 761 897
 InFocus 616
 Initial 625

Insignia 538 539 751
 Inteq 501 711 813
 Janeil 840
 JBL 566 656 761 897
 JCB 652 795 797 798 807
 JC Penney 503 505 506 508 516 525 543 595
 627 631 645 653 654 658 680 690 728
 730 802 830 857
 Jensen 502 537 556 573 627 653 654 842
 912
 JVC 508 557 559 642 649 655 676 726 735
 736 737 812 817
 Kawasho 561 573 627 652 654 795 807
 Kaypani 519
 KEC 682
 Kenwood 506 573 627 654 716
 KLH 595 744 745 802
 Kloss 561 627
 Kloss Novabeam 657 723 724 840
 Konka 510
 KTV 541 573 627 657 658 662 682
 LG 553 627 653 654 693 718 766 773 804
 Lloyd's 627 756
 Lloytron 658
 Loewe 566 656 761 897
 Logik 675
 Luce 699
 Luxman 523 627 654
 LXI 503 566 590 595 627 631 635 645 650
 654 656 683 744 761 771 802 830 897
 M. Wards 500 505 506 534 543 567 568 795
 807
 Magnasonic 573 664
 Magnavox 506 520 525 536 550 560 566 567
 568 573 625 627 646 654 656 723 724
 756 761 762 777 818 827 828 829 838
 839 887 888 891 892 893 894 897
 Magnin 661
 Majestic 675
 Marantz 506 566 573 604 627 654 656 761
 897
 Matsushita 689
 Maxent 507 581
 Media Center 721
 Megapower 804
 Megatron 627 654
 MEI 698
 Memorex 529 590 627 648 653 654 675 683
 834
 MGA 504 505 506 542 571 573 627 653 654
 661 728
 Midland 501 508 645 650 658 711 730 813
 Mintek 625
 Minutz 857
 Mitsubishi 504 505 542 570 571 572 573 613
 614 627 653 654 725 728 739 787 799
 Mitsui 769
 Monivision/Monovision 692 804
 Montgomery Ward 675
 Motorola 521 572 651 739 835
 MTC 505 506 516 523 573 627 653 654 680
 Multitech 657 682
 Multivision 810
 NAD 595 627 631 635 637 654 744 771 802
 National 509
 NEC 505 506 507 517 523 573 627 651 652
 653 654 731 732
 Net-TV 517 586 609 801
 Nikkai 613

Reference

Remote Control Device Codes

Nikko 627 654 727 778
Norcent 579
Normandic 717
Noshi 681
Novabeam 561 627
NTC 727 778
Nyon 627
Olevia 564 578 580 910
Onwa 541 657 662 682
Optimus 590 637 689
Optonica 521 572 607 739 835
Orion 694 726 834 899
Osaki 687
Panasonic 508 509 512 566 577 619 634 644
647 651 656 662 685 689 700 729 734
761 765 780 784 811 819 820 821 822 823
860 861 862 867 868 869 870 871 872
873 874 875 876 877 878 879 880 881
882 883 884 885 886 889 890 895 896 897
900
Panavision 734 811
Penney 595 627 645 650 661 744 771 802
Philco 505 506 525 532 536 568 573 627 651
653 654 655 656 658 723 724 761
Philips 525 527 548 550 563 566 621 625 627
651 655 656 658 690 723 724 747 761
770 782 824 825 826 827 828 839 887
888 891 892 893 894 897
Philips Magnavox 527 550 761 782 826 827
828
Pilot 627 658
Pioneer 547 576 627 637 654
PlasmSync 610
Polaroid 591 627 669 670 671 678 744 745
751 766 773 814
Portland 505 573 627 653 654 658 727 778
Price Club 680
Prima 653 673 674 842 912
Princeton 562 804
Prism 508
Proscan 503 645 650 742 749 830
Proton 513 519 536 585 627 654 655 658
Protron 589
Proview 902
Pulsar 501 627 711 813
Quasar 508 509 651 689 700 784 860 861
862 867 868 869 870 871 872 873 874
875 876 877 878 879 880 881 882 883
884 885 886 889 890 895 896
Radio Shack 503 541 590 627 645 650 662
682 683 756 830
Radio Shack/Realistic 590 607 650 652 654
655 657 658 683 730 830
RCA 503 505 522 627 630 636 641 645 650
651 653 654 661 742 749 776 779 805
830 831 863 864 902
Realistic 503 590 627 645 682 683 830
Rhapsody 701
Runco 501 627 711 813
Sampo 506 507 519 627 654 658 730 746 753
763
Samsung 505 506 516 523 526 566 573 601
627 653 654 655 658 680 707 717 730
738 755 761 794 833 858 897
Samsux 702
Samwon 620
Sansei 697
Sansui 726 754 756 834 899 908
Sanyo 590 611 627 661 683
SBR 566 761 897
Sceptre 677
Schneider 566 761 897
Scimitsu 773
Scotch 627 654
Scott 534 541 627 654 655 657 658 662 682
Sears 503 523 534 541 542 558 590 595 627
631 635 645 650 654 658 683 733 744
756 761 771 802 830 841 846

Seimitsu 627
Semivox 682
Semp 595 771
Sharp 521 572 585 605 607 627 628 629 654
655 658 739 740 803 835 836 898
Sharper Image 703
Sheng Chia 572 739
Shogun 627
Signature 675
Silver 573
Simpson 525
Solavox 613
Sony 500 640 652 756 758 781 783 795 796
797 798 806 807 837 844 845
Soundesign 525 534 536 541 627 654 657
662 682
Spectricon 520 620 627
Squareview 694 733 841 846
SSS 505 541 573 627 657 662 682
Starlite 657 682
Studio Experience 692
Supra 523 627
Supre-Macy 840
Supreme 652 795 797 798 807
Susumu 687
SVA 515 901 905
Sylvania 506 525 536 566 568 569 573 618
627 646 654 656 672 679 723 724 733
756 761 764 777 897
Symphonic 632 657 662 679 682 694 733
756 841 846
Syntax 564
Syntax-Brilliant 558 564
Tandy 521 572 739 835
Tatung 509 588 651
Technics 508 689
Technol ACE 534
Techview 590 683
Techwood 508 523 573 627 654
Teco 704
Teknika 504 505 512 516 523 524 525 534
536 541 573 644 653 654 655 657 658
662 675 680 682 685 727 761 778
Telecaption 688
Telefunken 794
Tera 513
Thomas 627 756
Thompson 709
Thomson 705
TMK 523 573 627 654
TNCi 501 711 813
Toshiba 516 526 590 595 617 622 631 635
666 680 683 688 744 750 754 768 771
785 793 800 802 847 848 849 850 851
852 854 855 865 866 908 909
Tosonic 698
Totevision 658
Toyomenko 627
Trical 706
Trutech 584
TVS 834
Universal 543 690 857
Universum 687
V Inc. 562 575
Vector Research 506 627
Victor 557
Video Concepts 570
Vidikron 761
Vidtech 505 573 627 653 654
Viewsonic 507 551 562 575 583 600 606 760
796
Viking 840
Viore 907
Vizio 511 535 562 575 593 598 773
Wards 503 534 536 573 595 607 627 645 653
654 656 675 690 715 723 724 761 802
830 857
Waycon 595 744 771 802

Westinghouse 528 562 574 575 795 797 798
807 809 832 856
White Westinghouse 528 816 832 834
Yamaha 505 506 573 627 653 654
York 627
Zenith 501 553 555 615 627 639 675 693 711
748 752 756 766 773 775 778 813 834
853 899
Zonda 620 804

VCR Codes

Programming in AUX mode: In most cases use these codes to program in DVD/VCR mode; but if programming in AUX mode, press 1 before entering the VCR code.

ABS 792
Adventura 588 594
Aiwa 501 588 594 676 678
Akai 513 518 568 682 772
Alienware 792
American High 554
Americast 917
Apex 517
ASA 556 801
Asha 675
Audio Dynamics 592
Audiovox 676 678
Bang & Olufsen 537 794
Beaemark 675
Bell & Howell 581
Broksonic 511 515 516 525 559
Calix 676 678
Candle 534 592 594 675 676 678
Candle/Citizen 675 676
Canon 554
Canon 554
CineVision 529
Colortyme 592
Colt 535
Craig 591 676 678 789
Curtis Mathes 554 585 592 594 605 607 649
Cybernex 675
Cyberpower 792
Daewoo 534 536 559 588 796
DBX 592
Dell 792
DiamondVision 532
Dimensia 585 607 649
Dumont 549
Durabrand 533
Dynatech 588 594
Electrohome 512 676 678
Electrohome 676 678
Emerson 508 512 518 534 536 554 559 568
588 594 676 678 798 804
ESA 502
Finlandia 549
Finlux 549 556 801
Fisher 549 581 789
Fuji 554 772
Funai 588 594 804
Garrard 588 594
GE 541 554 585 591 605 607 649 675
Go Video 522 524
Goldstar 592 594 676 678
Goodmans 585
Gradiente 588 594
Granada 549
Grundig 556 801
Harley Davidson 588 594
Harman/Kardon 568 592

Remote Control Device Codes

Headquarter 581
Hewlett Packard/HP 792
Hi-Q 789
Hitachi 536 538 539 540 588 595 597 682
Howard Computers 792
Hush 792
iBuyPower 792
Insignia 507
Instant Replay 554
ITT 675
JC Penney 554 581 591 592 595 676 678 776
JCL 554
Jensen 595 682 776
JVC 503 504 523 526 527 545 561 562 581
 592 594 682 795
Kenwood 562 581 592 594 682
Kodak 554 676 678
LG 507 676 678
Linksys 792
Lloyd's 588 594
Luxor 567
LXI 676 678
M. Wards 512 554 585 591
Magnasonic 536
Magnavox 533 554 556 594 797 798 801 803
 804
Magnin 675 676 678
Marantz 554 556 581 585 592 594 801
Marta 676 678
Matsushita 554
Media Center PC/Microsoft 792
MEI 554
Memorex 515 516 533 549 550 554 581 585
 588 594 676 678 786 789
MGA 512 567 568 675
MGN Technology 675
Midland 591
Minolta 595 776
Mitsubishi 512 562 567 568 595 607 776
Motorola 554
MTC 544 594
Multitech 588 591 594
NEC 562 581 592 594 682
Nikko 676 678
Niveus Media 792
Noblex 675
Northgate 792
Olympus 554
Optimus 676 678 786
Optonica 585
Orion 550
Panasonic 554 614 628 770 777 780 781 782
 783 784 786 787 788 799 809 810
Penney 675 676 678
Pentax 592 776
Pentex Research 592 594
Philco 554
Philips 554 556 585 801 803 804
Philips Magnavox 801
Pilot 676 678
Pioneer 562 776
Polaroid 517 530
Presidian 804
Proscan 585 605 607 649
Pulsar 533
Quarter 581
Quartz 581
Quasar 554 770 771 772 786 806
Radio Shack 512 594 676 678
Radio Shack/Realistic 554 581 588 676 678
 789
Radix 676 678
Randex 676 678
RCA 518 528 541 554 585 591 595 605 607
 649 675 773 774 775 776
Realistic 534 549 554 581 585 588 594 676
 678 789
Ricavision 792

Ricoh 791
Runco 533
Salora 567
Samsung 506 524 534 591 755 807
Sanky 533
Sansui 515 516 544 550 562 594 682
Sanyo 549 581 675 789
SBR 556 801
Scott 534 559
Sears 549 554 581 594 595 676 678 776 789
Sharp 512 585 595 607 918
Shintom 595 772
Shogun 675
Singer 554 791
Sony 500 594 768 772 778 790 791 792 919
Stack 792
Stack 9 792
STS 554
Superscan 531 798 804
Sylvania 519 554 556 567 588 594 756 798
 801 804
Symphonic 588 594 804
Systemax 792
Tagar Systems 792
Tandy 581
Tashiko 676 678
Tatung 682
Teac 588 594 682
Technics 554
Teknika 554 588 594 676 678
TMK 675
Toshiba 534 538 542 543 567 769 776 783
 792
Totevision 591 676 678
Touch 792
UltimateTV 649
Unitech 675
Vector Research 534 592
Victor 561 562
Video Concepts 534 568 592
Videomagic 676 678
Videosonic 591
Viewsonic 792
Wards 534 554 588 594 595 676 678 776 789
White Westinghouse 588
XR-1000 554 588 594
Yamaha 581 592 594 682
Zenith 500 507 533 594 772 779 791
ZT Group 792

Tuner/Amplifier Codes

Programming in AUX mode: Press 2 before entering the tuner/amplifier code.

Accuphase 690
Acoustic Research 703 853
Acurus 691
ADC 652
Adcom 690
Admiral 747
ADS 748
Aiwa 636 667 681 718 720 725 730 839
Akai 740
Alco 659
Alpine 749
Altec Lansing 738
AMC 855
Amphion Media Works 660
Amplifier Technologies 710
AMW 660
Anam 653
Angstrom 692
Anthem 750
Apex 812
Aragon 691
Arcam 726
Atlantic Technology 712
Audio Research 751
Audio Source 693
Audiotronic 685
Audiovox 669 826
B&K 752
Bang & Olufsen 676
Bel Canto Design 690
Biamp 695
Blaupunkt 854
BOSE 639 656 761
Boston Acoustics 713
Brix 744
Brumester 647
California Audio Labs 686
Cambridge SoundWorks 831
Capetronic 652
Carver 685 725
Cary Audio Design 689
Casio 717
CCE 802
Chase Technologies 687
Cinema Sound 696
Clarinet 717
Clarion 753
Classe 697
Classic 819
Coby 811
Counterpoint 754
Craig 856
Creative 723
Criterion 734
Crown 857
Curtis 815
Curtis Mathes 772
Daewoo 727
Dell 729
Delphi 755
Denon 669 670 680 759 760 762 809
Digital Audio Control 688
Durabrand 698
Dynalab 858
EAD 756
Eclipse 665
Elan 699
Emerson 820
ESA 757
Fisher 850
Fosgate 700
Garrard 851
Gateway 743
GE 638
Glory Horse 728
Go Video 742
Goldstar 814
GPX 834
Gradiente 682
Harman/Kardon 640 685 725
Hitachi 850
Honyas 770
iLive 835
Initial 735
Inkel 714
Insignia 825
Integra 650
Jamo 837
JBL 642
Jensen 775
JVC 637 663 786 827 848
Kenwood 658 662 668 774 795 828 829 830
 840
KLH 659
Knoll Systems 701
Koss 739

Reference

Remote Control Device Codes

Lasonic 746
Left Coast 640
Lenoxx 736
Lexicon 724
LG 836
Linn 685 725
Liquid Video 739
Lloyds 717
Logitech 702
Luxman 704
LXI 716
Magnadyne 776
Magnavox 652 654 685 725
Marantz 640 645 685 725 764
Mark Levinson 705
McIntosh 706
MCS 719
Memorex 777
Midland 707
Mitsubishi 859
Modulaire 717
Motorola 737
NAD 648
Nakamichi 649
NEC 641
Nexxtech 711
Nikko 708
Niro 779
Norcent 731
Nova 780
Omnifi 745
Onkyo 671 785 788 790 791 838
Optimus 635 652 653 772 845
Oritron 739
Panasonic 643 677 678 783 797 799 808 810
817 818 821
Parasound 647
Penney 717
Philco 781
Philips 640 685 725
Philips Magnavox 860
Pioneer 635 652 664 666 767 772 806 813
844 845
Polaroid 679
Polk Audio 640 645 685 764
Proscan 704 853
Proton 654
Pyle 782
Quasar 799
Radio Shack 728
RCA 635 652 653 659 675 703 772 842 845
852 853
RCA & Dimensia 703 853
Realistic 717
Regent 736
Rio 661
Rotel 674
Saba 741
Samsung 807
Sansui 685 725
Sanyo 824 850
Schneider 787
Scientific Atlanta 721
Scott 715
Sharp 832
Sharper Image 728
Sherwood 833
Shinonic 789
Shure 641
Sonic Blue 661
Sony 683 730 765 766 769 771 773 778 784
793 794 803 846
Soundesign 638
Soundmatters 763
Soundstream 709
Stereophonics 635 845
STS 792
Sunfire 658 840

Symphonic 747
Tag McLaren 796
Teac 653 659
Technics 643 672 768 804 805 808
Techwood 798
Thomson 800
Thorens 685
Toshiba 822
Vector Research 801
Venturer 659
Victor 637 827
Wards 635 638 685 725
Yamaha 646 650 651 655 657 663 684 732
733 786 823 841 847 848 849
Yorx 717
Zenith 814

Eltax 685
Emerson 658
Enterprise 824
ESA 570 587
Fahrenheit 713
Fisher 659
Flex Vision 717
Fun TV 718
Funai 570 617 658 829
Gateway 610
GE 702 703 720 749 816 835
Go Video 610 692 693 822 826
GPX 704 826 882
Gradiente 699 716
Greenhill 835
Grundig 565 577
Harman/Kardon 715
Hitachi 606 660 668 705 706 707 823 860
Hiteker 654 655 744
Honda 721
Honyas 726
iLive 856
iLo 837
Ingelen 876
Initial 835
Insignia 570 673 824 871
Integra 551 779
Irradio 608
Jamo 728
Jaton 738
JBL 715
Jeken 878
Jensen 557
JMB 656 815
JVC 553 603 604 620 621 622 623 625 689
850 861 862 863 872 898
Jwin 742
Karcher 864
Kawasaki 765
Kendo 848
Kenwood 579 699 700 716 737
KLH 765 835
Konka 753
Koss 564 723 745 873
Lasonic 593
Lenoxx 560 826
Lexia 857
Lexicon 743
LG 615 673 824 899
Lifetec 634
Limit 857
Liquid Video 564
LiteOn 602 610
Loewe 746
LogicLab 857
Logix 852
Lumatron 673 824
Luxman 844
Luxor 848
Magnavox 565 570 577 601 617 650 658 661
672 674 679 854
Malata 747
Marantz 565 577
Memorex 709
Microsoft 703 720 749 816
Mintek 710
Mitsubishi 767
Momitsu 748
NAD 673 824
Nakamichi 596
Nesa 835
Next Base 680
Nexxtech 599
Niro 750
Nissoho Iwai 718
Norcent 634 711
Onkyo 551 672
Oppo 566

DVD Player Codes

Programming in AUX mode: In most cases use these codes to program in DVD mode; but if programming in AUX mode, press 1 before entering the DVD code.

Accurian 602
Advent 572
Aiwa 694
Akai 656 752 815
Alco 765
Allegro 833
Alpine 653
Amphion MediaWorks 586
AMW 586
Anaba 687
Anam 688
Apex 654 655 744 757 835 839 851
Apple 642
Archos 885
Arrgo 833
Aspire 558
Astar 612
Audiologic 698
Audiovox 580 630 765 826 837
Axiom 867
B&K 701
Bang & Olufsen 569 580
Bel Canto Design 719
Blaupunkt 835
Blue Parade 719
BOSE 758 811
BOSS 576
Broksonic 656 752 815
California Audio Labs 699 716
Cambridge SoundWorks 870
CAVS 708
CineVision 626
Clarion 696
Classic 695 826 882
Coby 557 634
Criterion 712
Curtis 685
Curtis Mathes 684
CyberHome 833
Cyttron 904
Daewoo 626 657 859
Denon 578 697 699 700 716 737 892
Desay 598
DiamondVision 637 641
Disney 617
Dual 871
Durabrand 826
DVD2000 699 716
Eclipse 574

Remote Control Device Codes

Optiview 687
Oritron 564 723
Panasonic 624 627 638 662 663 672 699 714
 716 734 737 813 840 841 855
Philco 686
Philips 565 572 577 617 672 764 766 873 874
Pioneer 665 719 812 877 879 880
Polaroid 586 617 635 636 640 647 651 677
 851
Polk Audio 565 577
Portland 751
Presidian 617
Prima 759
Princeton 760
Proceed 654 655 744
Proscan 703 720 749 816
Provision 761
Pye 674
Qwestar 723
RCA 616 666 690 703 719 720 749 765 816
 835 842 901
Regent 560
Rio 683
Rotel 553 850 861
Rowa 555
Saba 762
Sampo 724
Samsung 571 606 643 644 652 667 668 691
 699 716 740 741 805 820 821 844 845
 849 866 869 875 881 895 896 900
Sansui 656 725 754 815
Sanyo 609 656 659 815
Sensory Science 610
Sharp 573 617 669 727 865 903
Sharper Image 763
Sherwood 870
Shinco 589
Shinonic 731
Sigma Designs 760
SonicBlue 683
Sony 582 613 618 632 670 671 729 730 731
 817 818 827 830 831 832 836 838 843
 846 847 858 868 883 884 902
Sungale 597
Superscan 570
SVA 800
Sylvania 570 617 619 631 639 645 658 764
 829
Symphonic 617 658
Teac 732 765
Technics 699 716 733
Techwood 664
Terapin 887
Theta Digital 719
TiVo 888
Toshiba 575 583 584 646 648 656 672 735
 736 814 815 819 825 828 834 893 894
Tredex 889
Trutech 833
TView 687
Urban Concepts 672
US Logic 681
Venturer 765
Vizio 897
Vocopro 890
Westinghouse 629
Xbox 703 720 749 816
Xwave 891
Yamaha 565 577 699 716 737 739 853

Digital Video Recorder (DVR) Codes

Programming in AUX mode: In AUX mode, press 1 before entering the DVR code.

ABS 792
Alienware 792
Americast 917
Bang & Olufsen 794
BellSouth 917
CyberPower 792
Dell 792
Director 913
Gateway 792
General Instrument 913
GOI 722
Hewlett Packard 792
HNS 521
Howard Computers 792
HP 792
HTS 722
Hughes Network Systems 521 910
Humax 910
Hush 792
iBUYPOWER 792
Jerrold 913
JVC 722
Linksys 792
Media Center PC 792
Microsoft 792
Mind 792
Motorola 913
Niveus Media 792
Northgate 792
Pace 914
Panasonic 907
Philips 521 548 906 910
Pioneer 914
Proscan 916
RCA 521 911 916
ReplayTV 907 912
Samsung 521
Scientific Atlanta 914
Sharp 573
Sonic Blue 907
Sony 510 792 905 908 909
Stack 9 792
Supercable 915
Systemax 792
Tagar Systems 792
TiVo 510 520 548 905 906 908 909 910 911
Toshiba 792
Touch 792
UltimateTV 916
Viewsonic 792
Voodoo 792
Zenith 917
ZT Group 792

TV/DVD Combo Codes

Programming for combination equipment: Program the remote control in TV mode using the first code listed and then in DVD (or AUX - press 1

before entering the DVD code) mode using the second code.

Apex 757 757
Audiovox 624 630
Axion 636 867
Broksonic 750 752
Cytron 904 904
Magnavox 838 679
Magnavox 839 650
Panasonic 811 734
RCA 830 703 (or 749 or 816)
Sansui 754 754
Sharp 605 (or 898) 573
Sylvania 764 (or 733) 764
Sylvania 672 645
Sylvania 777 639
Toshiba 622 (or 750 or 866 or 908) 815
Toshiba 800 646
Toshiba 865 814

TV/VCR Combo Codes

Programming for combination equipment: Program the remote control in TV mode using the first code listed and then in DVD/VCR mode using the second code.

Aiwa 667 501
Bang & Olufsen 665 537
Colt 660 535
GE 661 675
Magnin 661 675
MGA 661 675
Magnavox 887 (or 888) 797
Panasonic 765 799
Penney 661 675
Philips 887 801
Quasar 870 (or 868 or 860) 770
Quasar 860 771 (or 806)
RCA 503 649
RCA 661 675
RCA 749 775
RCA 830 649
Samsung 755 807
Sanyo 661 675
Sylvania 756 519

DVD/VCR Combo Codes

Programming for combination equipment: Program the remote control in DVD mode using the first code listed and then in AUX mode, press 1 followed by the second code..

Go Video 693 522
Go Video 822 524
Panasonic 734 777 (or 780)
RCA 690 528
Sansui 815 515
Sony 817 778

Reference

Remote Control Device Codes

TV/DVD/VCR Combo Codes

Programming for combination

equipment: Program the remote control in TV mode using the first code listed, then in DVD mode using the second code listed, and then in AUX mode, press 1 followed by the last code.

DiamondVision 659 532 641

TV/DVD/Tuner Combo Codes

Programming for combination

equipment: Program the remote control in TV mode using the first code listed, then in DVD mode using the second code listed, and then in AUX mode (press 2 before entering the tuner code) using the last code.

Panasonic 811 734 678

TV/VCR/Tuner Combo Codes

Programming for combination

equipment: Program the remote control in TV mode using the first code listed, then in DVD/VCR mode using the second code listed, and then in AUX mode (press 2 before entering the tuner code) using the last code.

Panasonic 873 783 836

Panasonic 874 784 833

Panasonic 875 785 826

Panasonic 876 786 825

Panasonic 877 787 824

Panasonic 878 788 822

Panasonic 879 789 821

Panasonic 880 790 820

Panasonic 881 791 819

Panasonic 882 792 818

Panasonic 883 793 817

Panasonic 884 794 816

Panasonic 885 795 815

Panasonic 889 809 808

IMPORTANT SAFETY INSTRUCTIONS

- Install the Over-the-Air Module with care. Be sure not to drop any loose parts in the opening.
- Do not insert anything into the opening on the receiver other than the Over-the-Air Module.
- Be aware that there may be parts or areas of the receiver inside the opening that are warm.
- If the Over-the-Air Module is removed, be sure to replace the port cover that came with the receiver. Do not leave the opening uncovered at any time.

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INTRODUCTION

The MT2 Over-the-Air (OTA) Module allows you to add two digital over-the-air tuners to your satellite receiver. This provides the ability to integrate over-the-air channels into the on-screen Program Guide of compatible receivers for seamless viewing by both the TV1 and TV2 viewers. If your satellite receiver is a DVR (digital video recorder), using this module will also allow you to record digital over-the-air broadcasts.

In addition, the MT2 OTA Module adds a Channel 3-4 coax output, for connection to standard-definition TVs.

INSTALLATION AND SETUP

Installation Considerations

- The OTA Module is compatible with only specific receiver models. Refer to your receiver's User Guide to determine if your receiver model can use the module.
- The OTA Module is capable of receiving only digital over-the-air broadcasts, not analog.
- These instructions assume that your satellite receiver is already connected to a dish antenna, and has the most current software. If not, you must connect the satellite receiver to your dish antenna and download current software, using the instructions included with those pieces of equipment.
- A DISH Network programming subscription is required to receive over-the-air channels using the OTA Module.
- The OTA Module does not provide pass-through of analog OTA signals.

- These instructions assume you have an over-the-air antenna suitable for your area already installed in your system. Refer to www.antennaweb.org or a local retailer for assistance in choosing and peaking an over-the-air antenna.

Installing the MT2 Module

1. Unplug the receiver's power cord from the electrical outlet.



Unplug the receiver's power cord from electricity anytime you install or remove the OTA module. Doing so reduces the danger of electrical shock, which could damage the module and the receiver, and injure or kill you.

2. Look at the back panel of your satellite receiver, and locate the cover on the left side of the back panel. Remove the two screws attaching the cover to the receiver (see Figure 1). Keep the screws for use in installing the module.

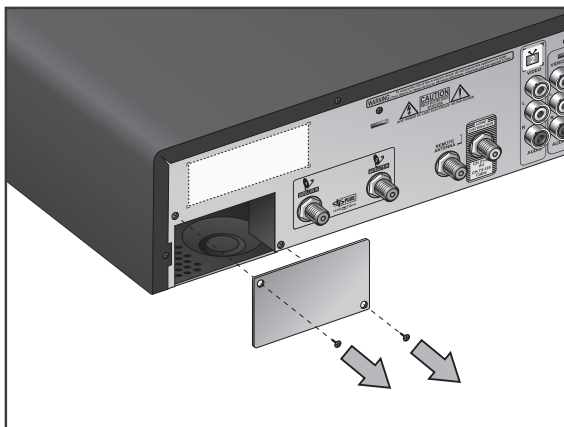


Figure 1. Removing the Cover



The module port on the back of the satellite receiver must be covered if an OTA Module is not installed. Damage to an uncovered module port is not covered by the receiver's *Limited Warranty*.

3. Install the module into the module port, making sure the labeling on the module is right-side up. Attach the module using the two cover screws (see Figure 2).

Note: Save the module port cover in case you need to remove the module and cover the port in the future.

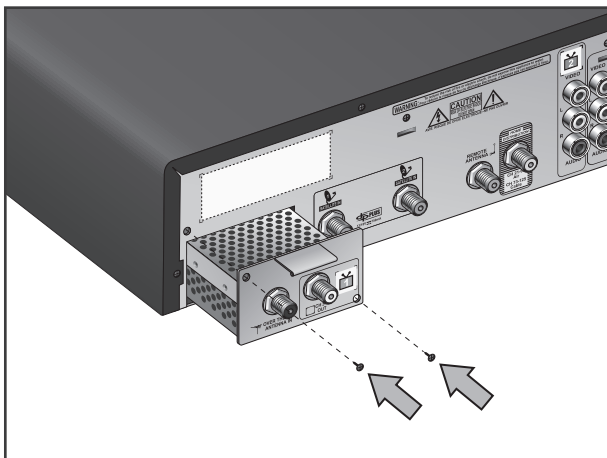


Figure 2. Installing the MT2 OTA Module

4. Connect the cable from your over-the-air antenna to the **OVER-THE-AIR ANTENNA IN** port on the module (see Figure 3). Only one cable is needed because the module has an internal splitter to provide the dual-OTA tuner capability.

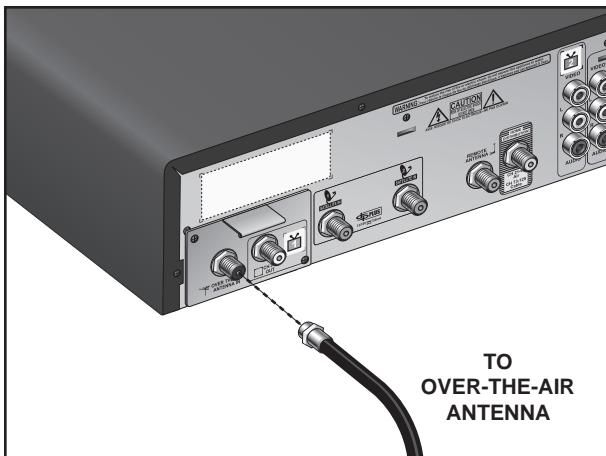


Figure 3. Connecting the Over-the-Air Antenna

5. Plug the receiver's power cord into the electrical outlet. Turn the receiver back on after it has reset itself.

Setting up the Receiver to Display OTA Channels

1. Using the remote control, press **MENU**, select **System Setup**, then **Local Channels**.

Note: Your Local Channels screen may differ slightly.



Figure 2. Local Channels Screen

2. Scan for channels by selecting **Scan Locals**.
Note: Ensure the Analog Type on the HDTV Setup menu (accessed by **MENU**, **System Setup**, then **HDTV Setup**) is set to **Offair**.
3. The scan takes a few minutes to complete. If you want to stop the scan before it is completed, select **Cancel**. When the scan completes, the results show how many digital over-the-air channels were found.
4. Select **OK** to go back to the Local Channels screen and view the list of channels.
5. If you want to name the over-the-air channels, follow the steps below. Otherwise, select **Done** to save the channel list.

6. Select a channel and then select **Edit Name** to change the way the channel name displays in the Program Guide and other channel lists. You can rename only one channel at a time.
7. Use the on-screen keyboard to enter the channel name.
8. Select **Done** when you are finished making changes.

Viewing Your OTA Channels

The over-the-air channels that are scanned into the receiver using the previous steps can be viewed in the on-screen Program Guide below channel 100. The OTA channels are listed in yellow in the Program Guide.

Note: You will need to have satellite signal and subscribe to DISH Network programming to view channels received using the OTA Module. Guide information for over-the-air channels displays only if you are subscribed to DISH Network local channels.

CONNECTING TO A TV USING THE CHANNEL 3-4 OUTPUT

Use the **CH 3-4 OUT** connection to connect to a nearby TV using coax cable. The TV connected to the Channel 3-4 output views the same programming as your TV1 viewing location. Refer to your receiver User's Guide for more details on the TV1 viewing location.

1. Install the module into the receiver using the instructions on page 3.
2. Connect one end of a coax cable to the **CH 3-4 OUT** connection of the module.
3. Connect the other end of the coax cable to a coax connection on your TV. This connect may be labeled **ANTENNA IN**, **CABLE IN**, or a

a similar name. Refer to your TV's User Guide for help locating this connection.

- Using the satellite receiver's remote control, press **MENU**, select **System Setup, Installation**, then **Modulator Setup**.

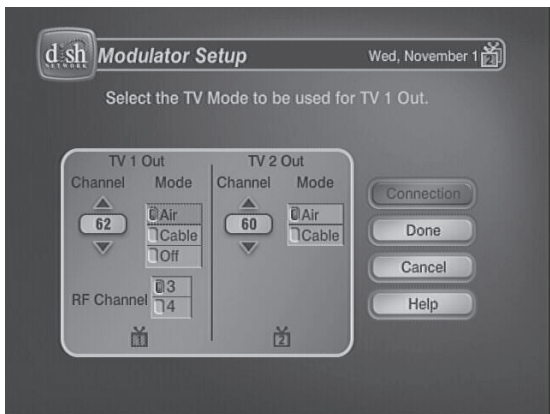


Figure 3. Modulator Setup

- Under TV1 Out, select Channel 3 or 4. Set the channel on the TV connected to the **CH 3-4 OUT** output to match this setting.
- Select **Done** to save your changes.

REMOVING THE OTA MODULE

Do not remove the OTA Module unless necessary as you will no longer be able to tune to your over-the-air channels if the module is removed.

1. Unplug the receiver's power cord from the electrical outlet.
2. Disconnect any cables connected to the module's **OVER THE AIR ANTENNA IN** port and/or **CH 3-4 OUT** port.
3. Remove the screws connecting the module to the receiver's back panel. Gently remove the module.
4. Replace the module port cover and attach it to your receiver using the screws that had connected the module.
5. Plug the receiver's power cord into the electrical outlet, and turn it back on.
6. Store the OTA Module in the original box when it is not installed in the receiver.

TROUBLESHOOTING

The receiver does not detect that the OTA Module is installed

1. The receiver will display that the OTA Module is detected on the System Info Three screen. Using the DISH Network remote control, press **MENU**, select **System Setup**, then **Installation**, then **System Info**. Select **Next** until the System Info Three screen displays, and verify the module is listed on this screen.
2. Ensure you have installed the module correctly using the instructions on page 3.
3. Try resetting the receiver by pressing the **RESET** button on the receiver's front panel. The receiver will reset and should return to programming in a few minutes.
4. Verify your receiver has the most current software version. Refer to www.dishnetwork.com, select Customer Service, then Tech Support to look up the current software version for your receiver.
5. Remove the module, using the instructions on page 9, then re-install it using the instructions on page 3.

You are not receiving some or all of the over-the-air channels you expect

Note: If you have questions about over-the-air channels, contact the local broadcaster, not DISH Network.

1. Use www.antennaweb.org or contact a local retailer to verify the over-the-air antenna you have installed is suitable for use in your area and for the channels you want to receive.
2. Ensure the over-the-air antenna is connected to the **OVER-THE-AIR ANTENNA IN** port on the OTA Module.

3. Verify the module is installed correctly. Refer to the instructions on page 3.
4. Verify that the antenna is installed correctly and peaked for the desired channels.

ABOUT OVER-THE-AIR TV BROADCASTS

Over-the-air TV signals are broadcast by local TV stations from a transmitter tower, and are received using an indoor or outdoor antenna. Digital over-the-air TV broadcasting uses advanced technology to deliver superb picture quality and CD-quality sound. However, digital over-the-air reception depends on several factors:

- The distance between the broadcast station and your home—the farther away the station, the weaker the signal.
- The broadcast station's power—the lower the power, the weaker the signal.
- Obstacles between the station and your home, such as mountains, buildings, trees, or other objects—these may block or reflect the signal before it reaches you.
- Multiple broadcast stations—to receive good signals from several stations, you may need to compromise how the antenna is pointed, or you may need more than one antenna.

There is no guarantee of reception of digital over-the-air channels by using the OTA Module; however, using the best over-the-air antenna for your area will improve your chances of reception:

- You can typically receive a limited number of channels using a rabbit ears-type antenna, or a much larger number using a UHF/VHF outdoor antenna.
- The higher the quality of antenna you use, the greater its range and the better its reception will be.
- Refer to www.antennaweb.org, a website run by the Consumer Electronics Association, for recommendations for antenna types and pointing directions.

Installation Considerations

- Follow local, state, and *National Electric Code* requirements for grounding the over-the-air antenna.
- RG-6 coaxial cable is preferred for the **OVER THE AIR ANTENNA IN** connection. If you are diplexing the **OVER THE AIR ANTENNA IN** and **SATELLITE IN** cables, RG-6 cable must be used.
- You cannot use a diplexer to combine the **OVER THE AIR ANTENNA IN** and **SATELLITE IN** cables if using an amplified antenna.
- Reception of digital over-the-air broadcasts is outside of the control of DISH Network. If you have questions about over-the-air broadcasts, contact the broadcaster, not DISH Network.

Digital Transition Consideration

Although all full-power over-the-air stations are transitioning to digital-only broadcasts beginning February 17, 2009, there will be some broadcasters who will continue using analog signals after this date. Because the OTA Module includes digital-only tuners, stations that are still broadcasting analog signals cannot be received using this module.

Limited Warranty

This Limited Warranty is a legal document. Keep it in a safe place. Remember to keep your Sales Receipt for warranty service. We will consider any items you return without a copy of the Proof of Purchase to be out of warranty.

This warranty extends only to the original user ("you," "your") of the DISH Network Over-the-Air Module and is limited to the purchase price of the module. DISH Network Corporation and its affiliated companies ("we," "our," "us") warrant this module against defects in materials or workmanship as follows. For one year from the original date of purchase, if we find the module is defective subject to the limits of this warranty, we will replace the module at no charge for parts or labor. We warrant any such work done against defects in materials or workmanship for the remaining part of the original warranty period. This warranty does not cover installation of the DISH Network System; consumer instruction; physical set up or adjustment of any consumer electronic equipment; remote control batteries; signal reception problems; loss of use of the equipment; unused programming charges due to equipment malfunction; cosmetic damage; damage due to lightning, electrical or telephone line surges, fire, flood, or other acts of Nature; accident; misuse; abuse; repair or alteration by other than our factory service; negligence; commercial or institutional use; improper or neglected maintenance; equipment sold AS IS or WITH ALL FAULTS; equipment removal or reinstallation; shipping damage if the equipment was not packed and shipped in the manner we prescribe; nor equipment purchased, serviced, or operated outside the contiguous United States of America. REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. WE SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS DEVICE, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS DEVICE. UNDER NO CIRCUMSTANCES SHALL OUR LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS DEVICE. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS DEVICE IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. WE RESERVE THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF WE DETERMINE ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS DEVICE NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR

CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE DEVICE HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

This warranty gives you specific legal rights which may vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages, or allow limitations on the duration of an implied warranty, so those limitations may not apply to you.

DISH Network's Exchange Programs

DISH Network offers two options if you need to replace your accessories; the Advance Exchange Program and the Post Receipt Exchange Program

Advance Exchange Program

The Advance Exchange Program allows you to have replacement equipment shipped immediately to you (depending upon where you live, it could take three to five business days). Along with replacement equipment, you will receive a prepaid shipping label and instructions on how to return the defective equipment. The shipping charge, for receiving replacement equipment and returning the defective equipment, is a one time fee based on EchoStar's competitive bulk shipping rates (additional charges may apply outside of the continental US). This fee will be charged to your billing account or your valid credit card. If you do not ship the defective equipment to EchoStar within ten days after receiving the replacement, your billing account or credit card will be charged the market price of the replacement. If you return the defective equipment after ten days, you will receive a full refund less an administrative fee.

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

Post Receipt Exchange Program

You may choose to ship the equipment to us at your cost. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return. The equipment you return will be checked to verify whether it is covered under this warranty. If the defective equipment is covered under this warranty, it will be replaced and shipped back to you at no additional cost (additional charges may apply outside of the continental US). If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in

its sole discretion determines has voided the warranty, or makes the equipment unreparable, your billing account or credit card will be charged the market price of the replacement.

Accessory Warranty

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, Smart Card, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.

If You Need Help

1. Review this User Guide.
2. See the *Troubleshooting* section of these Installation Instructions.
3. Visit us online at <http://tech.dishnetwork.com> or call the Customer Service Center at 1-800-333-DISH (3474). Have the date of purchase and your customer account number ready.
 - a. If the representative finds you should return the module, you'll get a telephone number to call for a Return Authorization (RA) number. Before shipping any equipment to us, you must get a Return Authorization number.
 - b. You must package returned equipment the right way. Follow the instructions the representative gives you.
 - c. Write the RA number in large, clearly visible characters on the outside of the shipping box used to return the equipment. To avoid confusion and misunderstandings, we will return shipments without an RA number clearly visible on the outside of the box to you at your cost.
 - d. We will:
 - Check the module, including whether it is covered under the warranty.
 - Replace any module we find is defective with a new or refurbished module.
 - If the defective module is covered under the warranty, we will ship the replacement module at our expense. If a defective module is not covered under the warranty, we will tell you. We may assess you a flat rate charge for a replacement module, including shipping and insurance.



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The information in these *Installation Instructions* may change without notice. We may issue revisions to tell you about such changes.

Send any comments or questions about these Installation Instructions to: *techpubs@echostar.com* or *Technical Publications, EchoStar Technologies L.L.C., 94 Inverness Terrace East Englewood, Colorado 80112*

Part Number: 162512

Printed in

We acknowledge all product names, trade names, or corporate names we mention in these *Installation Instructions* to be the proprietary property of the registered owners.

DISH Network is a registered trademark of DISH Network Corporation. For information about DISH Network, visit our website at *www.dishnetwork.com*.

Appendix



Appendix

What you'll find in this chapter:

- **LIMITED WARRANTY**
- **RESIDENTIAL CUSTOMER AGREEMENT**
- **STAYING LEGAL**
- **FCC COMPLIANCE**

LIMITED WARRANTY



This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your Bill of Sale for warranty service! Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

What the Warranty Covers

This warranty extends only to the original user of the equipment and is limited to the purchase price of each part. DISH Network and its affiliated companies warrant this system against defects in materials or workmanship as follows:

- **Labor:** For a period of one (1) year from the original date of purchase, if DISH Network determines that the equipment is defective subject to the limitations of this warranty, it will be replaced at no charge for labor. DISH Network warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.
- **Parts:** For a period of one (1) year from the original date of purchase, DISH Network will supply, at no charge, new or re-manufactured parts in exchange for parts determined to be defective subject to the limitations of this warranty. DISH Network warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period. **Note:** "Parts" means items included in this package, which may include the satellite dish assembly, receiver, LNBF, remote control, or dish mounting hardware. It does not include other parts purchased separately.

What the Warranty Does Not Cover

- This warranty does not cover installation of the system. If applicable, such installation will be warranted under a separate installation agreement.
- This warranty does not cover consumer instruction, physical setup or adjustment of any consumer electronic devices, remote control batteries, signal reception problems, loss of use of the system, or unused programming charges due to system malfunction.
- This warranty does not cover cosmetic damage, damage due to lightning, electrical or telephone line surges, battery leakage, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than authorized factory service, use of accessories not recommended by the receiver manufacturer, negligence, commercial or institutional use, or improper or neglected maintenance.
- This warranty does not cover equipment sold AS IS or WITH ALL FAULTS, shipping and handling, removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner prescribed, nor equipment purchased, serviced, or operated outside the continental United States of America.

Legal Limitations

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. DISH NETWORK SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS SYSTEM, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS SYSTEM. UNDER NO CIRCUMSTANCES SHALL DISH NETWORK'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS SYSTEM. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS SYSTEM IS LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY. DISH NETWORK RESERVES THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF DISH NETWORK DETERMINES ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS SYSTEM NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE RECEIVER HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

If You Need Assistance

- 1 Call the Customer Service Center at 1-800-333-DISH (3474). Have the date of purchase and either your customer account number, the receiver conditional access number, or the receiver model number ready. Display the System Info menu to find these numbers.

- 2 A Customer Service Representative will assist you.
- 3 If the Representative determines you should return any equipment, you will be directed to call a Return Authorization representative. Before shipping any equipment, you must talk to a Return Authorization representative and must obtain a Return Authorization (RA) number.
- 4 You will be given the appropriate address for which to return your equipment. Whether under warranty or not, you will be responsible for the cost of shipping back the defective equipment. For faster service, see the Advance Exchange Program below.
- 5 Returned equipment must be packaged properly, using either the original shipping materials or the packaging in which the replacement equipment is shipped. Include a copy of the Bill of Sale. Any items returned without a copy of the Proof of Purchase will be considered out of warranty. Follow the instructions given to you by the Customer Service Representative.
- 6 Write the RA number in large, clearly visible characters on the outside of the shipping box that you use to return the equipment. To avoid confusion and misunderstandings, shipments without an RA number clearly visible on the outside of the box will be returned to you at your expense.

DISH Network's Exchange Programs

DISH Network offers two options if you need to replace your satellite receiver equipment or its accessories.

Advance Exchange Program

The Advance Exchange Program allows you to have replacement equipment shipped immediately to you (depending upon where you live, it could take three to five business days). Along with replacement equipment, you will receive a prepaid shipping label and instructions on how to return the defective equipment. The shipping charge, for receiving replacement equipment and returning the defective equipment, is a one-time fee based on DISH Network's competitive bulk shipping rates (additional charges may apply outside of the continental US). This fee will be charged to your billing account or your valid credit card. If you do not ship the defective equipment to DISH Network within ten days after receiving the replacement, your billing account or credit card will be charged the market price of the replacement. If you return the defective equipment after ten days, you will receive a full refund less an administrative fee.

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which DISH Network in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

Post Receipt Exchange Program

You may choose to ship the equipment to us at your cost. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return.

The equipment you return will be checked to verify whether it is covered under this warranty. If the defective equipment is covered under this warranty, a replacement will be shipped to you at no additional cost (additional charges may apply outside of the continental US).

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which DISH Network in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

Accessory Warranty

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.

RESIDENTIAL CUSTOMER AGREEMENT

Thank you for choosing DISH Network as your television service provider. DISH Network is happy to answer any questions you may have and to provide you with technical and other customer support. You may contact us 24 hours a day, any day of the year, by any of the following means:

Phone: 1 (800) 333-DISH (3474)
Email: feedback@customermail.dishnetwork.com
Mail: DISH NETWORK CUSTOMER SERVICE CENTER
P.O. BOX 9033
LITTLETON, CO 80160
Website: www.dishnetwork.com

To view this Residential Customer Agreement (the "Agreement") in Spanish, please visit our website at www.dishnetwork.com or call us at 1 (800) 333-DISH and we will send you a copy. Para ver este Acuerdo en español por favor visite www.dishnetwork.com o llame al 1(800)333-DISH y le enviaremos una copia. "DISH Network" is a trademark of EchoStar Satellite L.L.C. For purposes of this Agreement and any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, "DISH Network", "we" or "us" shall mean EchoStar Satellite L.L.C. or, where applicable under the particular circumstances, third party billing agents, and "you" or "your" refer to you, the DISH Network subscriber.

THIS RESIDENTIAL CUSTOMER AGREEMENT DESCRIBES THE TERMS AND CONDITIONS UNDER WHICH DISH NETWORK WILL PROVIDE ITS SERVICES TO YOU. THIS AGREEMENT IS EFFECTIVE UNTIL CHANGED OR REPLACED. IF YOU ARE AN EXISTING DISH NETWORK CUSTOMER AND DO NOT ACCEPT THESE TERMS AND CONDITIONS, OR ANY SUBSEQUENT CHANGES TO, OR REPLACEMENT OF, THESE TERMS AND CONDITIONS, PLEASE NOTIFY US IMMEDIATELY AND WE WILL AT OUR OPTION CANCEL YOUR SERVICES OR ALLOW YOU TO CONTINUE TO RECEIVE YOUR SERVICES UNDER THE TERMS AND CONDITIONS OF YOUR IMMEDIATELY PRIOR RESIDENTIAL CUSTOMER AGREEMENT. IF YOU ARE A NEW DISH NETWORK CUSTOMER, YOUR ACTIVATION OF A DISH NETWORK ACCOUNT AND RECEIPT OF DISH NETWORK SERVICES SHALL CONSTITUTE YOUR ACCEPTANCE OF THIS AGREEMENT AND ITS TERMS AND CONDITIONS WILL BE LEGALLY BINDING UPON YOU. IF YOU ARE AN EXISTING DISH NETWORK CUSTOMER, WE WILL NOTIFY YOU OF ANY CHANGES TO, OR REPLACEMENT OF, THE TERMS AND CONDITIONS OF THIS AGREEMENT AND YOUR CONTINUED RECEIPT OF DISH NETWORK SERVICES FOLLOWING RECEIPT OF SUCH NOTICE SHALL CONSTITUTE YOUR ACCEPTANCE OF SUCH CHANGED OR REPLACED TERMS AND CONDITIONS AND THEY WILL BE LEGALLY BINDING ON YOU.

1. THE DISH NETWORK SERVICE

A. **Services Defined.** For purposes of this Agreement, the term "Services" shall mean all video, audio, interactive and other programming services and all other services that are currently available from DISH Network (whether subscription based, pay-per-view based or otherwise) and that we may provide to consumers in the future.

B. **Changing Your Programming Selection.** Unless otherwise specified in this Agreement or the customer agreement(s), if any, applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, you may change your programming selection at any time by notifying us. A fee may apply to such changes ("Transaction Fee"). In addition (and without limitation), you may be charged a monthly fee ("Service Access Fee") if you fail to subscribe to one of the following DISH Network basic programming packages: America's Top 60, America's Top 120, America's Top 180, Great Wall TV Package, DISH Latino, DISH Latino Dos, DISH Latino Max, America's "Everything" Pak, Latino "Everything" Pak, or any of their successor packages. Some Services are only available if you purchase and maintain a minimum level of programming.

C. **Programming Availability.** Certain Services transmitted by us, including but not limited to some subscription Services, sporting events and broadcast network Services, may be blacked out in your area of reception. If you circumvent or attempt to circumvent any of these blackouts, you may be subject to legal action. You must be at least 18 years of age, or the applicable age of majority where you reside, in order to receive adult-oriented programming services.

D. **Ordering Pay-Per-View.** You may order DISH Network special events and pay-per-view Services by using your on-screen Program Guide and remote control unit to select the movies and other events we offer. To receive the full functionality of DISH Network pay-per-view Services, your DISH Network receiver must be connected to a land-based telephone line. You may also order DISH Network special events and pay-per-view Services by calling the following toll free number: 1-877-DISH-PPV (3474-778) and using our automated system or speaking with a live operator at one of our Customer Service Centers. A fee will apply for using our automated system ("Pay-Per-View Automated Fee") or calling one of our Customer Service Centers ("Pay-Per-View Live Operator Fee").

E. **Private Home Viewing Only.** DISH Network provides Services to you solely for your private home viewing, use and enjoyment. You agree that no Services provided to you will be viewed in areas open to the public or in commercial establishments. Services may not be rebroadcast, nor performed, nor may admission be charged for listening to or viewing any Services. If we later determine that you utilized your Equipment (or sold, leased or otherwise gave possession of such equipment to a third party who you knew or reasonably should have known intended to use it) to permit the viewing of Services in a commercial establishment or any other area open to the public, we may disconnect your Services and in addition to all other applicable fees, you agree to pay us the difference between the price actually paid for Services and the full commercial rate for such Services, regardless of whether we have or had the rights to distribute such Services in a commercial establishment.

Residential Customer Agreement

F. Additional Tuners and Receivers. We may allow you to place additional receivers on your account in our sole discretion. Each additional receiver will be authorized to receive the same Services as your initial receiver. This option is only available if your initial DISH Network receiver and all additional receiver(s) are located at the same residence and are continuously connected to your same land-based telephone line. Unless otherwise specified in the customer agreement(s), if any, applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, DISH Network will charge you a monthly additional outlet programming access fee ("Additional Outlet Programming Access Fee") for each tuner activated on your account beyond the first. If you desire to receive Services at two different residential locations, you must open a separate account for each location. You agree that you will not directly or indirectly use a single account for the purpose of authorizing Services for multiple DISH Network receivers that are not all located in the same residence and connected to your same land-based telephone line. If we later determine that you did, we may disconnect your Services and, in addition to all other applicable fees, you agree to pay us the difference between the amounts actually received by us and the full retail price for the Services authorized for each DISH Network receiver on your account.

G. Changes in Services Offered. We reserve the right to add, delete, rearrange and/or change any and all programming, programming packages and other Services that we offer, and our prices and fees related to such programming, programming packages and Services at any time, including without limitation during any term agreement period to which you have agreed under the terms and conditions of any other agreement with DISH Network. If a change affects you, we will provide you notice of such change and its effective date. In the event that we delete, rearrange or change any programming, programming packages or other Services, you understand and agree that we have no obligation to replace or supplement any programming, programming packages or other Services previously offered that have been deleted, rearranged or otherwise changed. You further understand and agree that you will not be entitled to any refund because of a deletion, rearrangement or change in the contents of any programming, programming packages, or other Services previously offered.

H. Multi-Month Subscriptions. For multi-month subscriptions, you may downgrade your Services only at your time of renewal. You may not downgrade your Services during the term of a multi-month subscription.

2. BILLING POLICIES AND PAYMENTS FOR SERVICES

A. You agree to pay all amounts billed for Services and to pay all taxes, fees and other charges, if any, which are now or may in the future be assessed in connection with any Services you receive from us. Unless you prepay for a multi-month subscription to Services, we will bill you each month, in advance, for most Services and in arrears for other Services such as pay-per-view ordered by you or anyone who uses your Equipment, whether with or without your permission, until you cancel your Services. Bills you receive will show the total amount due, the payment due date, payments, credits, purchases and certain other charges to your account.

B. You agree to pay us in full monthly by the payment due date indicated on your bill for your Services and for any other charges due and owing to us, including without limitation any fees named in this Section 2. If you do not pay your bill in full on or before its due date, you agree to pay an administrative fee for late payment ("Late Payment Fee") as described below. Other fees and charges may also be assessed, including without limitation a returned payment fee ("Returned Payment Fee") in the event such non-payment arises from non-sufficient funds. If you request a duplicate billing statement, you will be assessed an additional fee (also referred to as a "Transaction Fee"). You may submit your payment by mail, on our website, through our autopay program, by calling a DISH Network customer service representative or by any other means we may designate. If payment is made by calling a DISH Network customer service representative, a fee will be assessed ("Live Operator Payment Fee") as described below. If partial payments are made, they will be applied first to the oldest outstanding bill. We do not assume the risk of undelivered mail. If you send checks or money orders marked with a designation such as "payment in full," we can accept them without waiving any of our rights, including without limitation our rights to collect any other amounts owed by you, notwithstanding your characterization of such payment. DISH Network does not extend credit to our customers, and the Late Payment Fee is not interest, a credit service charge or a finance charge. You understand and agree that in the case of late payment or nonpayment for any Services ordered by you or for any of the charges stated below, we may report such late payment or nonpayment to credit reporting agencies. If you do not pay your bill in full by its due date, or if you at any time otherwise fail, neglect or refuse to make timely payment for your Services, we have the right to disconnect your Services at any time thereafter, in our sole discretion, and in such event we shall be wholly relieved from any and all of our duties and obligations under this Agreement. If your Services are disconnected for non-payment or for any other reason, DISH Network may require you to pay, and you agree to pay, all past due charges, a fee for reconnection ("Restart Fee"), a deposit equal to a minimum of two month's service charges and all outstanding balances accrued through the date of such disconnection, before we reconnect your Services. Unless required by applicable law, deposits will not be held segregated from other funds and shall not earn or accrue interest. Promotional pricing is valid only at time of installation. Additional charges may apply for you to upgrade your Services or Equipment after installation or for non-standard installations.

C. If you paid for an annual or other multi-month subscription to any Services and your account is past due for any amount owed to us, at our option we may suspend any or all Services until we receive payment in full of all past due amounts, and/or convert your annual or other multi-month subscription to a monthly subscription. If we convert your multi-month subscription to a monthly subscription, we will first apply the amount you paid for your multi-month subscription to any past due amounts and then any remaining amounts to any obligations you incur in the future.

D. If we use a collection agency or attorney to collect any money you owe us or to assert any other right which we may have against you, you agree to pay the reasonable costs of collection or other action. These costs might include, but are not limited to, the costs of a collection agency, reasonable attorney's fees and court costs. If there are billing errors or other requests for credit, you may contact our Customer Service Center by telephone or in writing. You must contact us within twenty (20) days after the date you receive the billing statement for which you are seeking corrections. Failure to timely notify us of a dispute shall constitute your acceptance of the corresponding bill. Undisputed portions of a billing statement must be paid before the next billing statement is issued or you agree to pay an administrative fee for late payment. All payments for Services must be made directly by you to us. For

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Residential Customer Agreement

example, DISH Network shall have no obligation to provide Services for which payment is made by you to a third party or payment is made by a third party on your behalf.

E. In addition to (and without limitation of) any amounts due for your Services and any other amounts due pursuant to any customer agreement(s) pursuant to which you are receiving Services and/or Equipment, you agree to pay the fees referenced below ("Fees") if and when applicable. DISH Network reserves the right to change these Fees, increase these Fees or add additional Fees at any time and from time to time, in our sole discretion upon notice to you.

Additional Outlet Programming Access Fee (monthly, per each tuner after first):	\$4.99	Overnight Delivery Fee:	\$18.00
DISH Network DVR Service Fee (monthly, per Digital Video Recording receiver):	\$4.98	Pay-Per-View Automated Fee:	\$1.00
Equipment Rental Fee (monthly, per leased receiver)	\$5.00	Pay-Per-View Live Operator Fee:	\$5.00
Late Payment Fee:	\$5.00	Restart Fee:	\$25.00
Live Operator Payment Fee:	\$5.00	Returned Payment Fee:	\$10.00
Offset Fee:	\$2.00	Service Access Fee (monthly):	\$5.00
		Smart Card Replacement Fee:	\$50.00
		Transaction Fee:	\$5.00

In the event billing is provided through a third-party billing agent, the above fees may differ.

F. Different or other payment and billing terms and conditions may apply when billing is provided through a third-party billing agent, including without limitation, a local telephone company. See Section 9.F below.

3. CANCELLATION OF SERVICE

A. Your Services will continue until canceled or disconnected as provided herein. Unless previously disconnected, your subscription will be automatically renewed unless and until you contact us to cancel it as provided in the next paragraph.

B. You have the right to cancel your Services for any reason and at any time by notifying us via telephone, via e-mail or in writing, at the phone number, e-mail address or mailing address set forth in the first paragraph of this Agreement. Please be aware that certain promotions have an optional or mandatory term agreement period and if you cancel your Services prior to the expiration of that optional or mandatory term agreement period, certain early termination or cancellation fees may apply.

C. In addition to all other rights that DISH Network may have to disconnect your Services, DISH Network has the right to disconnect your Services at any time without providing notice to you if: (i) you fail to pay any bill in full when it is due; (ii) we receive confirmation that you have received Services, or any part of the Services, without paying for them; (iii) you otherwise violate the terms and conditions of this Agreement or any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment; (iv) you transfer, encumber or relocate any leased Equipment (unless you relocate such equipment as part of a residential move into an area within which you can permissibly continue to receive such Services); (v) you assign or attempt to assign any of your rights, duties or obligations under the terms and conditions of this Agreement or any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment; (vi) you are receiving Services through a third-party billing agent and become ineligible to receive applicable services provided by such third-party billing agent; or (vii) any act of bankruptcy on your part or the commencement of bankruptcy proceedings against you.

D. If your Services are canceled or disconnected for any reason, you are still responsible for the payment of all outstanding balances accrued, including without limitation any applicable Fees.

E. You understand that, except in certain limited circumstances, charges for Services, once charged to your account, are nonrefundable and no refunds or credits will be provided in connection with the cancellation of subscriptions to Services. If you received a discounted price in exchange for your agreement to pay for your Services on a multi-month basis, and you cancel your Services prior to the expiration of your multi-month subscription, you understand and agree that you are not entitled to any refund or credit for the unused portions of your multi-month subscription.

4. EQUIPMENT

A. In order to receive Services it will be necessary for you to purchase or lease certain reception equipment consisting primarily of a DISH Network compatible satellite receiver(s), satellite antenna(s), low noise block converter(s) with integrated feed(s) and remote control(s) (collectively, "Equipment"). Receiver(s) provided to you may also be equipped with a conditional access card ("Smart Card") inserted into a slot in such receiver. Not all receivers with a Smart Card slot require Smart Cards for proper authorization. Smart Cards remain the property of DISH Network at all times and any tampering or other unauthorized modification to any Smart Card is strictly prohibited and may result in, and subject you to, legal action. You agree to return Smart Cards to us upon our request.

B. Smart Cards are non-transferable. Your Smart Card will only work in the DISH Network receiver to which it was assigned by DISH Network. If you report to our Customer Service Center that your Smart Card was lost, damaged, defective or stolen, then we will replace it, as long as there is no evidence of unauthorized tampering or modification. A replacement fee will apply ("Smart Card Replacement Fee"). In addition, in order to minimize downtime for your Equipment, DISH Network will, upon your request, deliver a replacement Smart Card to you via overnight delivery in which event our overnight delivery fee ("Overnight Delivery Fee") will apply.

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C. DISH Network reserves the rights to alter software, features and/or functionality in your DISH Network receivers, provide data and content to Personal Video Recorder/Digital Video Recorder ("PVR/DVR") products, store data and content on the hard drives of PVR/DVR products, and send electronic counter-measures to your DISH Network receivers, through periodic downloads. DISH Network will use commercially reasonable efforts to schedule these downloads to minimize interference with or interruption to your Services, but shall have no liability to you for any interruptions in Services arising out of or related to such downloads.

D. DISH Network's PVR/DVR Products allow you to record programming in digital format. Total recording time varies depending on your receiver and the nature of the programs being recorded. DISH Network does not guarantee access to or recording of any particular programming. Most programming is the copyrighted material of the third party that supplies it, is protected by copyright and other applicable laws, and may not be reproduced, published, broadcast, rewritten, or redistributed without the written permission of the third party that supplied it except as permitted by the "fair use" provisions of the U.S. copyright laws. DISH Network may, in its sole discretion, add, change or remove features of its PVR/DVR Products and, upon notice to you, introduce or change fees for the use of PVR/DVR Product features. DISH Network will notify you of any change that is within its reasonable control. Unless otherwise specified in the terms and conditions of the customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, we will charge you a monthly DISH Network DVR service fee ("DISH Network DVR Service Fee") for each PVR/DVR receiver activated on your account.

E. DISH Network receivers contain components and software that are proprietary to DISH Network. You agree that you will not try to reverse-engineer, decompile or disassemble any software or hardware contained within any receiver or Smart Card. Such actions are strictly prohibited and may result in the termination of this Agreement, disconnection of your Services and/or legal action.

F. To optimize the operation of your Equipment, you must continuously connect each DISH Network receiver on your account to your same land-based telephone line. Failure to connect each receiver to your same land-based telephone line may result in interruption or disconnection of Services.

G. If your Equipment is stolen or otherwise removed from your premises without your authorization, you must notify our Customer Service Center by telephone or in writing immediately, but in any event not more than three (3) business days after such removal to avoid liability for payment for unauthorized use of your Equipment. You will not be liable for unauthorized use that occurs after we have received your notification.

H. You are licensed to use the software provided in your DISH Network receiver(s), as updated by DISH Network from time to time, solely in executable code form, solely in conjunction with lawful operation of the DISH Network receiver(s) that you purchased or leased, and solely for the purposes permitted under this Agreement. You may not copy, modify or transfer any software provided in your DISH Network receiver(s), or any copy thereof, in whole or in part. You may not reverse engineer, disassemble, decompile or translate such software, or otherwise attempt to derive its source code, except to the extent allowed under any applicable laws. Any attempt to transfer any of the rights, duties or obligations of this license agreement is null and void. You may not rent, lease, load, resell for profit or distribute any software provided in your DISH Network receiver(s), or any part thereof. Such software is licensed, not sold, to you for use only under the terms and conditions of this license agreement, and DISH Network and its suppliers reserve all rights not expressly granted to you. Except as stated above, this license agreement does not grant to you any intellectual property rights in the software provided in your DISH Network receiver(s). If you breach any term or condition of this license agreement, this license agreement will automatically terminate.

5. LEASED EQUIPMENT

A. DISH Network may, from time to time, lease certain Equipment to subscribers. If you elect to lease Equipment from DISH Network, the terms and conditions of the customer agreement(s) applicable to the lease promotion(s) pursuant to which you are leasing such Equipment shall apply, which are in addition to (and without limitation of) the terms and conditions of this Agreement. Unless otherwise specified in such customer agreement(s): (i) such Equipment, except for the satellite antenna, shall at all times remain the sole and exclusive property of DISH Network and we will have the right, in our sole discretion, to provide or replace leased Equipment with new or reconditioned Equipment and to remove, or require the return of, such Equipment upon cancellation or disconnection of your Services for any reason and (ii) we will charge you a monthly equipment rental fee (an "Equipment Rental Fee") for each leased receiver activated on your account. No leased Equipment provided to you by DISH Network shall be deemed fixtures or part of your realty. Our ownership of such Equipment may be displayed by notice contained on it. You shall have no right to pledge, sell, mortgage, otherwise encumber, give away, remove, relocate, alter or tamper with such Equipment (or any notice of our ownership thereon) at any time. Any reinstallation, return, or change in the location of such Equipment shall be performed by us at our service rates in effect at the time of such service. You shall not attach any electrical or other devices to, or otherwise alter, any such Equipment without our prior written consent. We reserve the right to make such filings as may be determined to be necessary by us in our sole discretion to evidence our ownership rights in such Equipment, and you agree to execute any and all documents as may be so determined to be necessary for us to make such filings. You are responsible for preventing the loss or destruction of leased Equipment and we recommend that such Equipment be covered by your homeowners, renters or other insurance policy.

B. Upon termination of your Services, you must notify our Customer Service Center or call the telephone number set forth in the customer agreement(s) applicable to the lease promotion(s) pursuant to which you are leasing the applicable Equipment to schedule the return of your leased Equipment. If such Equipment is not returned undamaged and in working order, normal wear and tear excepted, certain charges will apply as described in the customer agreement(s) applicable to the lease promotion(s) pursuant to which you are leasing such Equipment. You are responsible for, and agree to pay, any costs of repair, replacement or other costs if you do not return such Equipment undamaged and in working order, normal wear and tear excepted.

C. You shall notify us promptly of any defect in, damage to, or accident involving your leased Equipment. All maintenance and repair of such Equipment shall be performed by us or our designee(s). DISH Network may charge you for any repairs that are necessitated by any damage to, or misuse of, such Equipment.

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6. TRANSFER OF ACCOUNT, SERVICES OR EQUIPMENT

DISH Network may sell, assign or transfer your account to a third party without notice to you. You may not assign or transfer your Services without our written consent, which will not be unreasonably withheld. We may, however, refuse to allow you to assign or transfer your Services if you lease your Equipment or if your account has an outstanding balance.

7. LIMITATION OF OUR LIABILITY

A. NEITHER WE NOR OUR THIRD PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES WILL BE LIABLE FOR ANY INTERRUPTIONS IN SERVICE OR FOR ANY DELAY OR FAILURE TO PERFORM, INCLUDING WITHOUT LIMITATION IF SUCH INTERRUPTION OR DELAY OR FAILURE TO PERFORM ARISES IN CONNECTION WITH THE TERMINATION OR SUSPENSION OF DISH NETWORK'S ACCESS TO ALL OR ANY PORTION OF SERVICES, THE RELOCATION OF ALL OR ANY PORTION OF THE SERVICES TO DIFFERENT SATELLITE(S), A CHANGE IN THE FEATURES AVAILABLE WITH YOUR EQUIPMENT, ANY SOFTWARE OR OTHER DOWNLOADS INITIATED BY US OR ANY ACTS OF GOD, FIRES, EARTHQUAKES, FLOODS, POWER OR TECHNICAL FAILURE, SATELLITE OR UPLINK FAILURE, ACTS OF ANY GOVERNMENTAL BODY OR ANY OTHER CAUSE BEYOND OUR CONTROL.

B. NEITHER WE NOR OUR THIRD PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES WILL BE LIABLE FOR ANY DAMAGE RESULTING FROM LOSS OF RECORDED MATERIAL OR THE PREVENTION OF RECORDING, INCLUDING WITHOUT LIMITATION ANY LOSS OF PREVENTION OF RECORDING DUE TO ANY FAULT, FAILURE, DEFICIENCY OR DEFECT IN SERVICES OR EQUIPMENT.

C. EXCEPT AS EXPRESSLY PROVIDED TO THE CONTRARY BY APPLICABLE STATE LAW, NEITHER WE NOR OUR THIRD PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES MAKE ANY WARRANTY, EITHER EXPRESSED OR IMPLIED, REGARDING YOUR DISH NETWORK EQUIPMENT OR ANY OTHER EQUIPMENT OR ANY SERVICES FURNISHED TO YOU. ALL SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED AND EXCLUDED.

D. IN NO EVENT SHALL WE, OUR THIRD PARTY BILLING AGENTS, OR ANY OF OUR OR THEIR AFFILIATES HAVE ANY LIABILITY FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATING TO DISH NETWORK EQUIPMENT OR ANY OTHER EQUIPMENT OR RESULTING FROM OUR FURNISHING OR FAILURE TO FURNISH ANY SERVICES OR EQUIPMENT TO YOU, OR FROM ANY FAULT, FAILURE, DEFICIENCY OR DEFECT IN SERVICES OR EQUIPMENT FURNISHED TO YOU.

E. IT IS YOUR RESPONSIBILITY TO IMPOSE VIEWING RESTRICTIONS ON YOURSELF, MEMBERS OF YOUR FAMILY AND HOUSEHOLD, AND GUESTS, AS YOU DEEM APPROPRIATE. WE, OUR THIRD PARTY BILLING AGENTS, AND OUR AND THEIR AFFILIATES SHALL HAVE NO LIABILITY TO ANYONE DUE TO, OR BASED UPON, THE CONTENT OF ANY OF THE SERVICES FURNISHED TO YOU.

8. WARNING AGAINST PIRACY AND INFRINGEMENT

A. It is a violation of various U.S. federal and state laws to receive any Services, or any portion of such Services, without paying for them. The penalties for violating such laws can include imprisonment and civil damage awards of up to \$110,000 per violation.

B. Title 47, Section 605(e)4, United States Code (U.S.C.) makes it a federal crime to modify Equipment to receive encrypted (scrambled) television programming without payment of required subscriptions. Conviction can result in a fine of up to \$500,000 and imprisonment for five years, or both. Any person who procures Equipment that has been so modified is an accessory to that offense and may be punishable in the same manner. Investigative authority for violations lies with the Federal Bureau of Investigation. Equipment may incorporate copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of such copyright protection technology must be authorized by Macrovision, and is intended for home and other limited pay-per-view uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

9. GENERAL

A. Physical Address/Change of Address. When setting up your DISH Network account, you agree to provide us with the physical street address where your Equipment will be located and your Services will be provided. A post office box does not constitute a physical address and is not sufficient to meet this requirement. You agree to give us prompt notice of your change of name, mailing address, physical address where your Equipment is located, and telephone number. You may do this by notifying our Customer Service Center by telephone or in writing at the phone number or mailing or e-mail address set forth in the first paragraph of this Agreement.

B. Notice. Any notice required or permitted to be given by us under this Agreement may be provided via the mail, on your billing statement, as a bill insert, via broadcast on a television channel, through publication on the website set forth in the first paragraph of this Agreement, by telephone or by any other reasonable means. If we send you notice by mail, on your billing statement or as a bill insert, it will be considered given when deposited in the U.S. Mail, addressed to you at your then-current billing address in our records. If we send you notice via broadcast on a television channel or through publication on the website set forth in the first paragraph of this Agreement, it will be considered given when first broadcast or published. If we send you notice by telephone, it will be considered given when personally delivered to you or when left as a message at your then-current phone number in our records. Unless otherwise specified in this Agreement, any notice required or permitted to be given by you under this Agreement shall be in writing and shall be sent by first class mail addressed to us at the mailing address set forth in the first paragraph of this Agreement, and shall be deemed given when received by us at such mailing address.

C. Credit Checks. You authorize DISH Network to investigate your financial responsibility and creditworthiness, including without limitation acquiring credit reports and histories, and to report any payment defaults to credit reporting agencies. Under the Fair Credit Reporting Act, you have the right to notify DISH Network if you believe we have reported inaccurate information about your account to any consumer reporting agency. Please include the specific item of dispute and why you believe the information reported is in error in any such notice.

D. Personal Information. If you have an on-line account with us, you are fully responsible for maintaining the confidentiality of your password and account username and for all activities that occur under your password and/or account username. You agree to: (i) keep your account username and password confidential and not share them with anyone else, and (ii) immediately notify us of any unauthorized use of your password and/or account username or other breach of security.

E. Applicable Law. This Agreement, including without limitation all matters relating to its validity, construction, performance and enforcement, and any claim, complaint or dispute arising out of or related to this Agreement or Services, shall be governed by the laws and regulations of the State of Colorado without giving effect to its conflict of law provisions. These terms and conditions are subject to amendment, modification or termination if required by such laws or regulations. If any provision in this Agreement is declared to be illegal or in conflict with any law or regulation, that provision shall be modified to the minimum extent necessary to make such provision legal and no longer in conflict with such law or regulation, without affecting the validity of any other provisions.

F. Third-Party Billing Agents. We may enter into relationships with third parties to provide billing and other services on our behalf, in which case the terms and conditions of this Agreement shall apply to such third parties as applicable under the circumstances. Additional terms and conditions imposed by our third-party billing agents, including without limitation, local telephone companies, may apply. For example (and without limitation), late fees imposed by our third-party billing agents may be administered according to our third-party billing agent's billing procedures and applicable state tariffs and regulations; our third-party billing agents may require you to pay all past due charges for Services, a restart Fee, and/or a prepayment before we reconnect your Services; other services provided by our third-party billing agents, including without limitation, local telephone service, may need to be restored before DISH Network Services can be restored, and a restoral fee and deposit may be required to restore third-party billing agent services. Partial payments on third-party billing agent bills may be applied to the balance due for other services billed on your third-party billing agent bill, including without limitation, local telephone service, according to the third-party billing agent's billing procedures and applicable state statutes and regulations. Contact your third-party billing agent for details. Failure to pay all or any part of your third-party billing agent bill may result in disconnection of Services.

G. Remedies Cumulative. It is agreed that the rights and remedies provided under the terms and conditions of this Agreement to DISH Network in case of default or breach by you of this Agreement are cumulative and without prejudice to any other rights and remedies that DISH Network may have by reason of such default or breach by you at law, in equity, under contract or otherwise (all of which are expressly reserved).

H. Other. No salesperson, installer, customer service representative, authorized retailer, or other similarly situated individual is authorized to change the terms and conditions of this Agreement. DISH Network may, however, change the terms and conditions of this Agreement at any time and from time to time in its sole discretion and will notify you if that occurs. The terms and conditions of this Agreement that either are expressly stated to survive or by their nature would logically be expected to survive its expiration or termination shall continue thereafter until fully performed. This Agreement is in addition to any other written agreement(s), if any, between you and DISH Network, including without limitation any installation agreement or customer agreement(s), if any, applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, and except as provided to the contrary herein all such written agreements shall remain in full force and effect. Except as expressly set forth in this Agreement to the contrary, any and all prior DISH Network Residential Customer Agreements are hereby replaced and superseded in their entirety by this Agreement, and such prior DISH Network Residential Customer Agreements shall be of no further force or effect whatsoever. In the event of any conflict or inconsistency between the terms and conditions of this Agreement and any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, the terms and conditions of such customer agreement(s) shall be controlling. In the event of any ambiguity between the terms and conditions of this Agreement and any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, DISH Network shall have the sole and exclusive authority to interpret and/or make a final determination in its sole discretion concerning any issue arising from such ambiguity.

STAYING LEGAL

Title 47, Section 605(e)4, United States Code (U.S.C.) makes it a federal crime to modify this receiver to enable it to receive encrypted (scrambled) television programming without payment of required subscriptions. Conviction can result in a fine of up to \$500,000 and imprisonment for five years, or both. Any owner of this receiver who procures or willfully causes its modification is an accessory to that offense and may be punishable in the same manner. Investigative authority for violations lies with the Federal Bureau of Investigation (FBI).

To the extent that this product incorporates Macrovision technology, this product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of such copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

FCC COMPLIANCE



The following text is extracted from Federal Communications Commission (FCC) regulations, as of this Guide's publication date. Contact the FCC (see following) or a library for complete text of the regulations.

Telephone Communication

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back panel of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant, such as RJ-11. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact DISH Network at 1-800-333-DISH (3474). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

There are no user serviceable parts inside.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Compliance Information Statement

EchoStar Technologies Corporation, 94 Inverness Terrace East, Englewood CO., (303) 706-4000, declares that: This device complies with Part 15 of the FCC Rules. Operation 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 with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference 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 radio/TV technician for help.

Signal Strength Present at the Television

The software-based attenuator within the satellite receiver will limit the signal present at your television set to below the FCC signal strength limit of 75.6dBuV. If you choose not to enable the attenuator, you must ensure that the signal strength present at the TV set does not exceed 75.6dBuV.

Connecting to an Over-the-Air Antenna

In order to receive local broadcast channels, you may wish to install an over-the-air antenna into your over-the-air tuner module or TV distribution equipment. There are many devices that allow you to connect your antenna to your in-home distribution system such as splitters and amplifiers. You must be careful to meet certain FCC regulations with respect to the isolation between the antenna port and the network port of your system. It is recommended that you purchase a splitter or amplifier with the correctly specified isolation from your local satellite television retailer.

Receiver Information

Write the following information in the spaces provided below. You may need to provide this information if you call the Service Center. To get the Conditional Access Numbers, display the **System Info** menu (see *Ordering Your Programming Packages*).

Purchase Location Name:	
Purchase Location Telephone Number:	
Receiver Serial Number:	
Receiver Conditional Access Number	
Smart Card Conditional Access Number:	

Remote Control Settings

	Remote Control 1	Remote Control 2
Remote Control Address (SAT Mode)		
TV Code (TV Mode)		
DVD or VCR Code (DVD Mode)		
Auxiliary Code (AUX Mode)		

TV Input/Channel Settings

	TV1	TV2
TV Input/Channel		