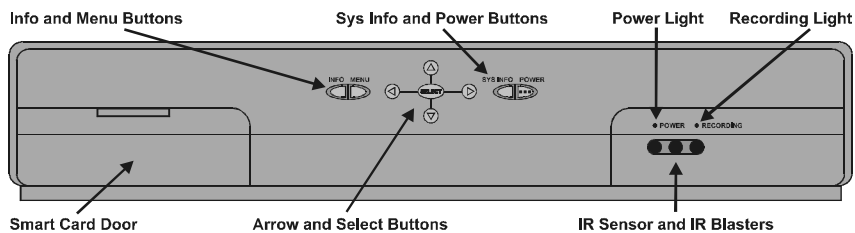


Chapter 2

Parts of the System

The Receiver

Receiver Front Panel



Smart Card Door

The Smart Card is behind the door on the front panel.

Note: Leave the Smart Card in, and keep the door closed.

Front Panel Buttons

The front panel buttons work the *same* way as the buttons on the remote, to control the receiver. For more information on the remote control buttons, see *Remote Control* on page 20 of this *User Guide*.

Info Button

Press the INFO button to see information about a program you watch or a program you highlight in a menu.



The information may include one or more of these signs:

- ⊗ for a program you can't buy
- ⊘ for a blacked-out program
- Ⓢ for a pay per view program
- ⌚ for a program with an event timer
- 🔒 for a locked program

Menu Button

Press the MENU button to open the **Main Menu**.



Chapter 2

Parts of the System

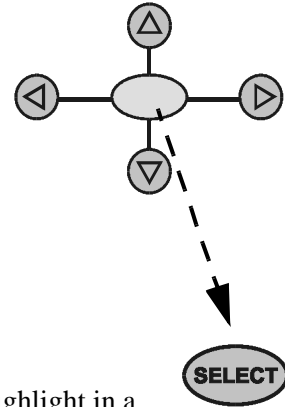
Tip: First, you move the highlight to an item with the Arrow buttons, and then you press the SELECT button to select that item.

Arrow Buttons

Use the ARROW buttons to move a menu highlight to an option or a program.

Use the UP and DOWN ARROW buttons to change channels while watching a program.

When watching a program, pressing the LEFT ARROW button opens the **Themes** menu and the RIGHT ARROW button opens the **Browse Banner**.



Select Button

Press the SELECT button to select an item you highlight in a menu.

Sys Info Button

Press the SYS INFO button to open the **Important System Information** menu.



Power Button

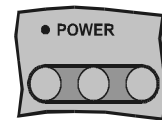
Press the POWER button to turn the receiver on or off.



Power Light

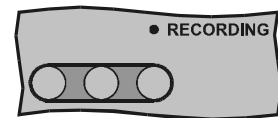
The POWER LED lights up when you turn the receiver on and turns off when you turn it off.

Note: Even when the POWER light is off, the receiver continues to work and requires power. Don't unplug the receiver unless you need to move it!



Recording Light

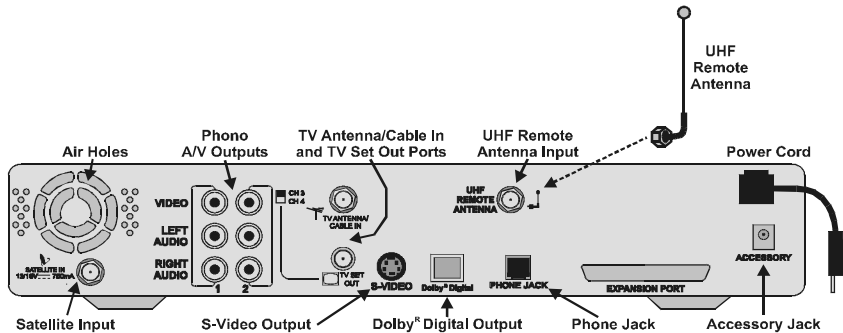
The RECORDING LED lights up whenever you are recording a program.



IR Sensor and IR Blasters

The IR SENSOR receives IR signals from the remote control. For information on the IR BLASTERS, please see *Control a VCR* on page 56.

Receiver Back Panel



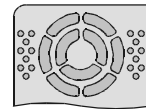
The receiver back panel has ports you can use to connect the receiver to other devices (you may not need to use some of these ports). The back panel also has the power cord and phone jack.



Tighten the connections *only* by hand. If you use a wrench you might over-tighten the connections and cause damage that *would not* be covered by the *Limited Warranty*.

Receiver Fan and Air Holes

The receiver has a fan behind the air holes. The fan turns on and off as needed to cool the receiver.



Don't block the air holes! If you do, the receiver could over-heat!

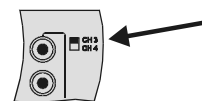
Satellite In

Connect the cable from the satellite dish to the **SATELLITE IN** port.



Channel 3/4 Switch

If you use **TV SET OUT** to connect the receiver to a TV, set this switch to the channel you want to tune to on your TV. Choose a channel that isn't used by a cable or local TV station. If you connect the receiver to a VCR that has a channel switch, set *both* switches to the same channel.



Note: If you are connecting multiple receivers to multiple TVs, these receivers and TVs can all be set to the same channel (3 or 4) to avoid interference with local broadcasts.

TV Set Out

This connection provides good picture quality and good mono sound quality (even if you have a TV or other devices that provide stereo sound).

If you use **TV SET OUT** to watch satellite channels, you must keep the TV(s) tuned to the same channel (either channel 3 or 4) as you selected on the Channel 3/4 Switch of the satellite receiver.

The **TV SET OUT** can be switched between satellite programming and the signal on the **TV ANTENNA/CABLE IN** connection using the **TV/VIDEO** button on the remote control.



TV Antenna/Cable In

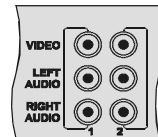
Use the **TV ANTENNA/CABLE IN** to connect a broadcast TV antenna or cable TV box to the receiver. The **TV ANTENNA/CABLE IN** connection is only available through the **TV SET OUT** as described above.



Phono (RCA) Audio/Video Outputs

These outputs provide high-quality picture and stereo sound.

- If the TV has only one input for this type of audio, connect it to the receiver's **RIGHT AUDIO** output.
- If you use these outputs to connect the receiver to other devices, be sure to follow the instructions in the devices' user manuals.



Super Video (S-Video) Output

The receiver provides S-Video, which is the highest quality video available. If you use this output for video, you *must* still connect the audio with the **PHONO (RCA) AUDIO OUTPUTS** or the **DOLBY® DIGITAL** output.



Dolby® Digital Output

The receiver provides Dolby® Digital encoded output and linear Pulse Code Modulation (PCM) for an audio amplifier/decoder that can process this kind of output.



Phone Jack

Connect a phone cable with a standard RJ-11 phone plug to the receiver here, and then connect the cable to an active phone jack.



Note: You *must* keep the receiver connected to a phone line at *all* times to buy Pay Per View programs or use exciting interactive features.

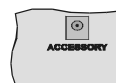
Expansion Port

This port is reserved for future use.



Accessory Jack

If you connect a multi-dish switch to the **ACCESSORY JACK**, or if you use an IR extender, you *must* set up the receiver properly. See *Set Up the Accessory Jack* on page 81.



Power Cord

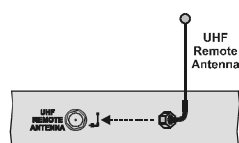
Even when the receiver front panel's green **POWER LED** is off, the receiver keeps working and it needs power. So, *don't* unplug the receiver's power cord unless you need to move the receiver or if it will not be used for an extended period of time.



Before moving the receiver, unplug the power cord and let the receiver sit for at least 30 seconds! Always handle the receiver *gently* to protect the *delicate* parts it has inside.

UHF Remote Antenna Input

The receiver uses the antenna to get UHF signals from the remote control. Connect the UHF antenna here, and set it so it doesn't touch anything. Set the antenna straight up so you can use the remote control as far away as possible.

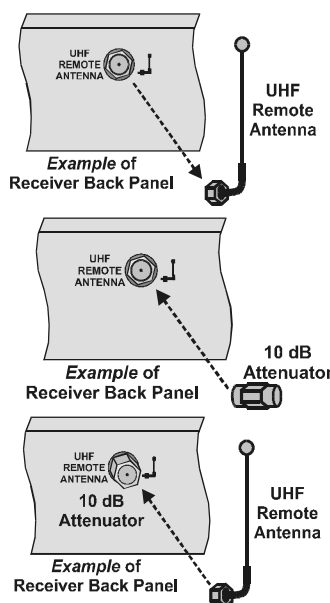


Attach an Attenuator

Stray UHF signals (from your neighbor's remote control, for example) can block signals from the remote control to the receiver. To help prevent blocks, you can install a 10 dB attenuator (you can buy one from a consumer electronics parts store).

Note: This will help keep out stray UHF signals, but also cut down how far away you can use the remote control.

1. Take the UHF antenna off of the receiver's back panel UHF REMOTE ANTENNA input.
2. Put a 10 dB attenuator onto the UHF REMOTE ANTENNA input.
3. Put the UHF antenna onto the attenuator.



Tip: If the receiver does unexpected things (for example, changes channels, starts DVR features randomly), you may have to install a 10 dB attenuator to block stray UHF signals. You can buy one of these attenuators at almost any electronic parts store.

Remote Control

Tip: If the receiver does unexpected things (for example, changes channels, starts DVR features randomly), you may have to change the remote control address. See *Change the Address* on page 26.

This section describes the remote control and its buttons used to control the receiver. To find out how to use the remote to control *other* devices, see *Control Other Devices with the Remote*, beginning on page 68. The remote control we pack with the receiver may look a bit different than the one shown on page 22.



If you lose or damage the remote control, you can use the receiver's front panel buttons to operate many of the receiver's features. Call the Customer Service Center at 1-800-333-DISH (3474) to order a new remote.

The remote control uses *both* Ultra High Frequency (UHF) radio signals and infrared (IR) light signals to control the receiver but uses *only* IR signals to control other devices.

- IR signals travel only short distances (40 feet or less), and *can't* go through walls or other solid objects. You *must* point the remote control directly at the device you want to control, with *no* objects to block the signal path.
- UHF signals travel long distances (100 feet or more) and *can* go through walls and other solid objects. Because UHF signals travel so far, the receiver may respond to signals from other nearby remote controls (for example, your neighbor's remote control). To handle this problem, please see *Change the Address* on page 26. If this doesn't work, please see *Attach an Attenuator* on page 19.

Note: To use UHF capabilities, you need to connect your UHF antenna as described on page 19.

Remote Control Batteries

The remote control comes with 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, and *don't* mix batteries of different kinds. Alkaline batteries last longer.

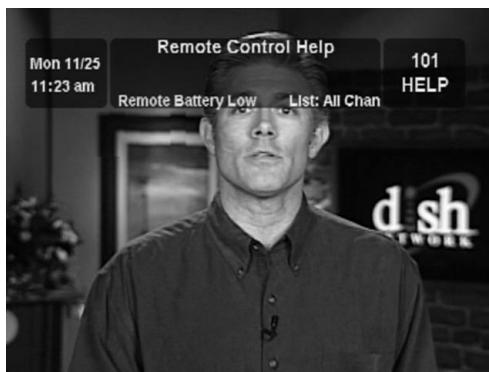
Changing the Batteries

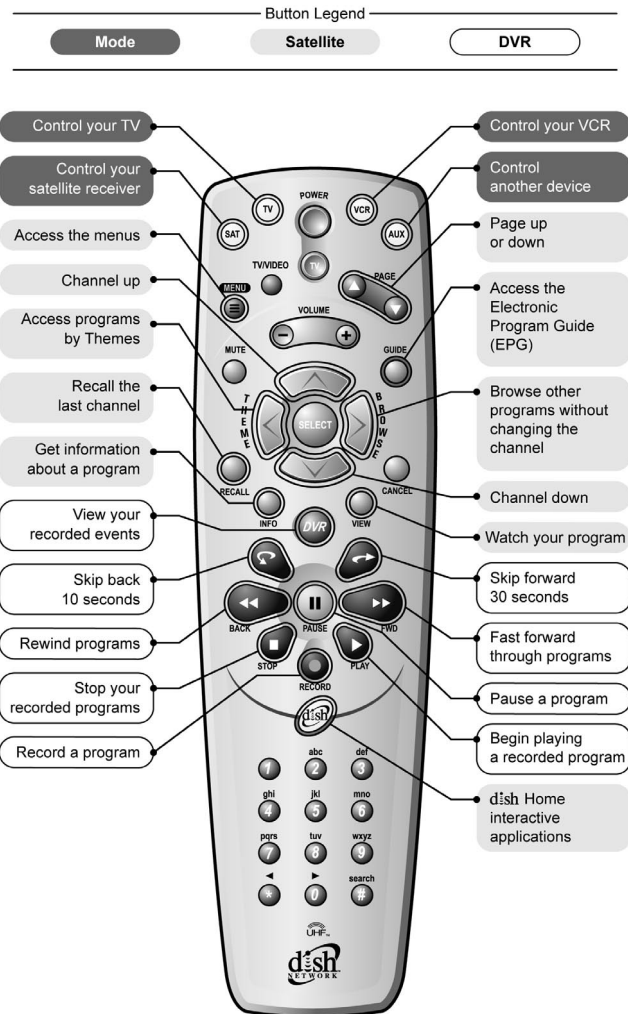
1. Press down on the battery cover's top latch and lift the cover off.
2. Take out all of the old batteries.
3. Put the new batteries in. Make sure you match the plus (“+”) ends with the plus markings on the battery case.
4. Fit the battery cover's bottom tab back into the slot at the bottom of the battery case, and snap the cover back into place.



Low Battery Warning

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





Remote Control Buttons

SAT Mode Button

Press this button to set the remote to SAT (“satellite”) mode. The SAT mode button’s back light lights up for two seconds to show you’ve set the remote to SAT mode. While the remote control is in SAT mode, the remote control buttons operate as described below to control satellite receiver functions.



Power Buttons

Press the blank POWER button to turn the receiver on or off.

Use the TV POWER button to turn the TV on or off. See *Set Up the Remote to Control Other Devices* for instructions on programming the remote to control your TV.

POWER



Menu Button

Press this button to open the **Main Menu**.

MENU



TV/Video Button

If you connect a second video source, such as cable or a broadcast antenna, to the receiver's back panel **TV ANTENNA/CABLE IN** port, you can use this button to switch the receiver between the satellite signal and the another video signal.

TV/VIDEO



Note: The signal from the second video source will only be available on the **TV SET OUT** port, not on the **S-VIDEO** or **RCA** output connectors.

Page Up and Page Down Buttons

Press the PAGE UP button or the PAGE DOWN button to scan, page by page, through the **Program Guide**, a **Themes** list, a **Favorite List**, an **Event Timers** list, or a list of channels.

PAGE



Mute Button

Press this button to turn the TV sound off or on. To use this button, you *must* set up the remote to control your TV. See *Set Up the Remote to Control Other Devices* for instructions.

MUTE



Volume Button

Press this button to change the TV volume. To use this button, you *must* set up the remote to control your TV. See *Set Up the Remote to Control Other Devices* for instructions.

VOLUME



Guide Button

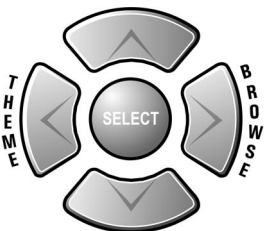
Press this button to open the **Program Guide**. When you have the **Program Guide** open, press this button again to change the **Favorites Lists**.

GUIDE



Arrow Buttons

- Press these buttons to highlight an option in the menus, the **Program Guide**, and the **Browse Banner**.
- While watching a program, press the UP or DOWN ARROW button to change channels.
- While watching a program, press the BROWSE button (the RIGHT ARROW button) to open the **Browse Banner**.



Tip: The Guide button opens the Program Guide. Use it to get information on programs that are on now and that will be on in the future.

Parts of the System

- While watching a program, press the **THEME** button (the **LEFT ARROW** button) to open the **Themes** menu.
- To enter a number in a menu, highlight the place where you need to enter the number. Then, press the **UP** or **DOWN ARROW** button to increase or decrease the number in the highlighted place. Or, you can use the number buttons.

Select Button

Press this button to select the option you highlight in a menu, **Program Guide**, or **Browse Banner**.



Recall Button

Press this button to go back to the last receiver channel you watched. Press it *again* to switch between the last two receiver channels you watched.



Info Button

- Press the **INFO** button for more information about the show you are watching.
- Press the **INFO** button for more information about a program you have highlighted in the **Program Guide**, **Browse Banner**, **Themes**, or **Recorded Events** list.
- If a menu has a **Help** option, press this button to see help information for that menu.



View Button

- While watching a program, press this button to briefly display the **Program Banner**.
- When you use a menu, press this button to cancel out of the menu and go back to watching a program.



Cancel Button

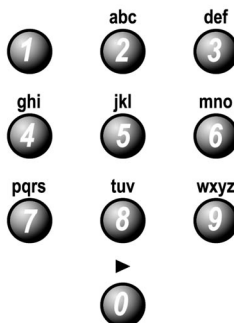
Press this button to cancel and return to the previous menu or to watch a program if there are no previous menus.



CANCEL

Number Buttons

- While watching a program, using the **Program Guide**, or using the **Browse Banner**, use these buttons to enter a channel number.



- When you have the **Program Guide** open, enter a number of hours you want to skip forward with these buttons, and then press the **RIGHT ARROW** button. This is how you can quickly move the **Program Guide** forward. To move back, enter the number of hours you want to move back and then press the **LEFT ARROW** button.

- If a menu option has a number, press the button with the same number to select that option.
- Use these buttons to enter numbers in a blank field.

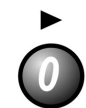
Star (*) Button

Press this button to back space while using the **Search** function of your receiver.



Zero Button

Press this button to move one character forward while using the **Search** function of your receiver.



Pound (#) Button

Press this button to display the **Search** screen. Also, you use this button in several procedures described in this *User's Guide*.



Dish Button

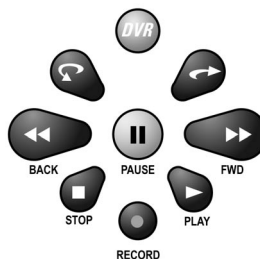
Press this button to use the **Dish Home Interactive TV** applications. See page 81 for information on using this exciting new feature.



DVR Buttons

Use these buttons to record or play back a DVR program. See *Use the DVR Features* for details.

Note: Even if the top button says "PVR" instead of "DVR," it works the same.



Tip: When you're in the **Program Guide**, you can skip ahead 24 hours just by pressing the **SKIP AHEAD** button on the remote.

If you skip ahead, you can skip back 24 hours by pressing the **SKIP BACK** button.

Tip: DVR buttons let you take control of television. You can use them to pause live TV, go back in time, skip ahead, and more!

Change the Address

Because UHF signals travel long distances and go through walls, a neighbor's remote could control your receiver by mistake. To handle this problem, you can change the address on the remote and receiver as follows:

1. Make sure you turn on the TV and receiver.
2. Open the **Important System Information** menu by pressing the receiver's front panel **SYS INFO** button.
3. The **Important System Information** menu shows a **Remote Address**.



Write down this number: _____

4. Press and hold the **SAT** mode button about three seconds, until all the mode buttons light up, and then let go of the **SAT** button.
5. Use the number buttons to enter any number from 1 to 16, but *not* the one you wrote in step 3.



Write down the number you enter: _____

6. Press the **POUND (#)** button. If you entered the address correctly, the **SAT** mode button flashes three times.
7. Press the **RECORD** button.
8. Make sure the **Remote Address** you see on the **Important System Information** menu now is the same as the one you entered in step 5. If the addresses are not the same, repeat step 7.
9. To check the address in the remote control, *press and hold* the **SAT** mode button for three seconds. Then, let go of the **SAT** button, and press the **POUND (#)** button *twice*. The **SAT** mode button flashes the same number of times as the address you entered in step 5.

Press the **SELECT** button to close the **Important System Information** menu.

Receiver Menus

This section shows examples of the key menus the receiver displays on the TV screen and how to use them.

Open or Close a Menu

- Press the MENU button to open the **Main Menu**. You can open *any* other menu starting from the **Main Menu**.
- Press the CANCEL button to close a menu.

Make a Choice in a Menu

1. Use the remote control ARROW buttons to highlight a menu option. An option you highlight looks like the English option shown below.
2. Press the remote control SELECT button to select the option you highlight.



Note: If a menu option has a number, you can press the remote control's number to select that option. If you do this, you don't have to highlight the option first. For example, to select the **Program Guide** option on the **Main Menu**, just press the remote control 1 button.



Make a Choice in a List

The menus have two types of lists, like these *examples*:

- A **single choice** list lets you make *only one* choice at a time. If you make another choice, you *don't* keep your earlier choice.
- A **multiple choice** list lets you make *more than one* choice at a time. If you make another choice, you *keep* your earlier choice(s).



Tip: Whenever a menu option has a number next to it, you can just press that number on the remote to instantly access it.

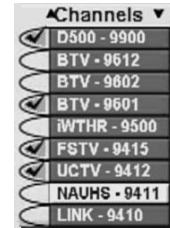
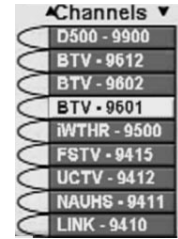
Chapter 2

Parts of the System

Tip: Any time you're in a menu and want to immediately go back to watching your program, just press the View button.

Here's what to do:

1. Use the ARROW buttons to highlight an option.
2. Press SELECT to choose the option(s).
3. Select **Save**.



SAVE

Cancel a Procedure

To cancel a procedure, press the remote control CANCEL or VIEW button *before* you do the last step of the procedure.

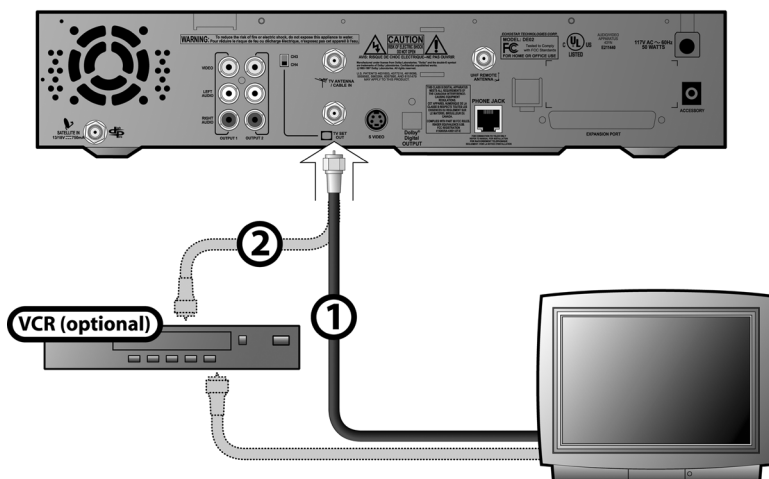
- To go back to watch a program, press the VIEW button.
- To go back to the previous menu, press the CANCEL button.



Note: If you don't do anything in a menu for several minutes, the menu times out. This throws away any change you made, and displays the last channel you watched.

TV and VCR Connections

Use the following diagram and instructions to connect the satellite receiver to a TV and VCR (optional).



RCA connections

S-Video connections

Optional methods of connecting the receiver to a television.
 Note: Using the S-Video connection requires using the Left and Right RCA audio connectors

- 1** **TV Set Out to a TV** - Connect a coaxial cable between the **TV SET OUT** on the receiver and the TV's input. Be sure to set the **CHANNEL 3/4** switch on the receiver to the channel you use to watch satellite TV.
- 2** **TV Set Out to a VCR (Optional)** - Connect a coaxial cable between the **TV SET OUT** on the receiver and the VCR's input. Connect another cable between the VCR's output and the TV's input. Be sure to set the **CHANNEL 3/4** switches on the receiver and VCR to the channel you use to watch satellite TV.

Notes

