DIRECTV® Digital Satellite Recorder
Troubleshooting Guide

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Remote Control Issues

Remote Control Issue Flowchart

Recorder Not Responding to Remote Control

Check Remote: Does the red light at the top of your remote control flash when you press a button on the remote?

Yes

Check Recorder: Does the light on the front panel of your DVR flash when you press a key on your remote?

Yes

Powercycle the Recorder. Do you see the DIRECTV Central screens?

Yes

Display Case: Remote appears to be functioning correctly

No

Display Case: Check wiring and input settings

No

Display Case: Check for obstructions and powercycle Recorder

No

Display Case: Check Batteries
Controlling more than one recorder in the same room

Does the remote control for your DIRECTV® Digital Satellite Recorder have a “DVR” switch right above the number keys?

No, I don’t have a DVR switch on my remote:

If you have multiple recorders in the same room, you can program each recorder to accept commands from only one remote control. This will allow you to use one remote control for each recorder without affecting the other recorders in the room.

1. Cover the IR window on the front of all recorders other than the one that you want to program.

2. Use one of your DIRECTV Recorder remotes to navigate to the System Information screen (DIRECTV Central > Messages and Setup > System Information) of the recorder that you want to program and press the DOWN arrow until you see “Remote Address.”

3. Hold down the PAUSE and DIRECTV buttons on your remote simultaneously for 5 seconds, until the red LED on the remote lights up.

4. Use the number keys to enter any digit from 1-9. The remote LED will flash, but the screen will not update.

5. Press the RIGHT arrow to send the code to the recorder. The number you entered should appear on the screen beside “Remote Address” (this may take a few seconds). You have now programmed this remote control and this recorder to only work with each other.

6. Press the DIRECTV button to return to DIRECTV Central. Repeat this process with any other recorders in the room. Remember to cover the IR windows of any recorders that you are not programming. Use a different number for each recorder so that none of the remote addresses are the same.

How do I reset a remote (remove any programming)?

1. Hold down on the DIRECTV and PAUSE buttons on your remote simultaneously for 5 seconds (until the red LED on the remote lights up).

2. Using the number keys on the remote, enter 0. The remote LED will flash.

3. Your remote can now control any recorder.

Yes, my remote control has a DVR switch:

Skip to "Programming the DVR switch on your remote control"
Check batteries

If the light on your remote doesn't flash, try the following:

- Remove the batteries and make sure that they are inserted as shown on the illustration inside the remote (under the batteries)
- Replace the batteries with new ones

If the red light at the top of the remote control still does not turn red after you replace the batteries, call the phone number listed on your manual for further troubleshooting.

Check for obstructions and powercycle recorder

If the light on the front panel of your DIRECTV® Digital Satellite Recorder doesn't flash when you press a key on your remote, try the following:

- Remove the batteries and make sure that they are inserted as shown on the illustration inside the remote (under the batteries).
- Replace the batteries with new ones.
- Check for obstructions between you and the DIRECTV Recorder.
- Powercycle the recorder by pressing the Power button on the front panel of your recorder.

If the light on the front of the DIRECTV Recorder still does not flash after you try all of the steps above, call the phone number listed on your manual for further troubleshooting.

Remote appears to be functioning correctly

Based on the responses that you have given, it appears that your remote is functioning correctly. If you are still having a problem with your remote, please call the phone number listed in your manual for further troubleshooting.

Check wiring and input settings

If you don't see the DIRECTV Central screen after you powercycle your DIRECTV Recorder, there is likely a problem with your cable wiring or input setting on your TV, VCR, or A/V Receiver rather than a problem with your remote control.

Check your wiring to make sure that all of your cables are securely connected.

Check the input settings on your TV, VCR, and A/V Receiver. This may involve pressing the "Input" or "TV/VCR" button on the remote control for your TV, VCR, and A/V Receiver.

If you are still not able to see DIRECTV Central once your check all of your settings, please call the number listed in your manual for additional troubleshooting.
Programming your recorder remote to control TV or A/V System

T/V Power, Volume, and Mute

1. First, you'll need the four-digit code for your television brand. You'll find a list of these codes in the DIRECTV menus. To see them, press the DIRECTV button to go to DIRECTV Central, then select Messages & Setup, then Recorder & Phone Setup, then Remote Control Setup, then Remote Control - TV.

2. Next, you will need to prepare the remote control. Point the remote away from your DIRECTV® Digital Satellite Recorder and cover the front end with your hand. Press and hold the TV PWR button and DIRECTV button simultaneously until the red light at the end of the remote control comes on, remains steady, then stays on when you release the buttons.

3. Enter a code. Use the number buttons on the remote to enter a four-digit code. After you press the fourth digit of the code, the red light on the end of the remote control will flash three times. Note: If the light goes out but does not flash, try the same code again. If it doesn't flash a second time, just go on to the next code in the list.

4. Test the code. Point the remote towards the TV and press the TV PWR button. If pressing the button turns your TV off, you're finished. If it does not work, repeat steps 2 and 3 using the next code on the list. If none of the codes work, you can try a code search to find an appropriate code. (Click the 'Back' button in your browser to see a selection that will provide instructions for completing a code search.)

A/V Receiver Power, Volume, and Mute

You can also control the power, volume, and mute of an A/V receiver (or just the volume and mute, if you prefer to control your A/V receiver's power independently). To control an A/V receiver, repeat steps 1-4 again, but on the DIRECTV screen that lists brand names, choose the brand of your A/V receiver. In step 2, hold down different buttons on the remote control:

- To control just volume and mute, hold down the MUTE and DIRECTV buttons. (And in step 4, test the MUTE button.)
- To control power, volume, and mute, hold down the TV PWR and DIRECTV buttons.
Using Code Search to find a code for your remote

If you have been trying to program your DIRECTV® Digital Satellite Recorder remote to control a TV or A/V system, and have not been able to find a code that works with your device's manufacturer or model, you may be able to program the remote with a code search. Performing a code search can take up to 20 minutes.

1. Prepare the remote control. Point the remote away from your DIRECTV Recorder and cover the front end with your hand. Determine which two buttons to press:

<table>
<thead>
<tr>
<th>To Control:</th>
<th>Press and Hold:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV Power, Volume and Mute</td>
<td>TV PWR and DIRECTV buttons</td>
</tr>
<tr>
<td>TV Input (on remotes where this button is available)</td>
<td>TV INPUT and DIRECTV button</td>
</tr>
<tr>
<td>A/V Receiver Power, Volume and Mute</td>
<td>TV PWR and DIRECTV buttons</td>
</tr>
<tr>
<td>A/V Receiver volume and mute only</td>
<td>MUTE and DIRECTV buttons</td>
</tr>
</tbody>
</table>

Press and hold the buttons simultaneously until the red light at the end of the remote control comes on, remains steady, then stays on when you release the buttons.

2. Enter the search code. Refer to the table below and use the number keys on your remote control to enter the appropriate code.

<table>
<thead>
<tr>
<th>To Test:</th>
<th>Enter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV Power, Volume and Mute</td>
<td>0999</td>
</tr>
<tr>
<td>TV Input (on remotes where this button is available)</td>
<td>0999</td>
</tr>
<tr>
<td>A/V Receiver Power, Volume and Mute</td>
<td>1999</td>
</tr>
<tr>
<td>A/V Receiver volume and mute only</td>
<td>1999</td>
</tr>
</tbody>
</table>

After you press the fourth digit of the code, the red light on the end of the remote will flash twice, then remain on.

Test the remote control. Point the remote control at the TV or A/V receiver. Press CHAN UP. Did the TV or A/V receiver respond? If not, continue to press CHAN UP to test codes (there are hundreds). Wait two or three seconds each time after pressing CHAN UP to give your device time. When the TV or A/V receiver responds, press ENTER to select the current code. The red light at the end of the remote will flash three times to indicate that the remote can now control your device. When the red light on the end of the remote control turns off, you have reached the end of the available codes. Unfortunately, due to the great variety of TVs and A/V receivers, some makes and models are not compatible with your recorder's remote. If you reach the end of the available codes without finding a code that works, you'll need to continue to use your TV or A/V receiver's remote to control your TV or A/V receiver.
Programming a Hughes remote

For information about programming a Hughes remote control, please refer to your Installation Guide or call Hughes Customer Support at the number shown below.

800-274-8995

Listen for the prompts, and press 4 and then 2 at the first two prompts.

Hours: 9 AM - 11 PM Eastern Time
Audio and Video Issues

Audio and video are out of sync
If your audio and video become out of sync, try the following:

1. Change the channel to a different station and back.

2. Press the PAUSE button on the remote control, press REWIND to move back a frame or two, then Press PLAY again to resume play.

3. Press the DIRECTV button to go to DIRECTV Central. Press the LIVE TV button to return to live television.

Note: If you have your DIRECTV® Digital Satellite Recorder connected to an A/V receiver, both the audio and video must be connected to the A/V receiver to prevent the audio from being delayed.

I don't hear any audio (sound)
If you are not able to hear audio on your television, check the following:

- Check to make sure all your cable connections are secure between your recorder and your television.
- Verify that your TV is not on mute and the volume is set at a level you can hear.
- If you are using a satellite receiver, check to make sure the volume on your satellite receiver is on and set at a level you can hear (not all satellite receivers have a volume control).
- If you are using S-video cable to connect your recorder to your television, make sure you are using the audio (red and white) composite cables as well.

Choppy video, blocks of color, garbled audio
Audio and video glitches are usually caused by a disruption of your satellite source. If they happen often, check your cabling to make sure all of the cables are connected securely. If you have satellite service, your picture can also be affected by weather. If you experience frequent issues with video or audio, contact Customer Support for further troubleshooting (refer to your manual for the appropriate phone number).
I don’t see the “Welcome” screen

If you are not able to see the “Welcome” screen during Guided Setup, try the following tips:

Ø Make sure cables are connected from the OUT jack of one device to the IN jack of another. Cables should never be connected from OUT to OUT or IN to IN.

Ø If you used an RF Coaxial cable to connect your recorder, make sure your TV (and VCR, if the recorder’s signal passes through the VCR) is tuned to the same channel (3 or 4) that you selected on the back of your recorder. You may also need to press the Input, Source, or TV/Video button on your TV’s remote to change the input (i.e., the video signal your TV is displaying).

Ø If you’re using Composite Video and L/R Audio cables or S-Video cables, make sure your TV is displaying the appropriate video source. You may need to use the “Input,” “Source,” “Select,” or “TV/Video” button on your TV’s remote to change video sources. If you are having trouble changing the video source, refer to the instructions that came with your TV.

Ø If you are passing the signal through your VCR, tune your TV the way you would to watch your VCR. Also, try turning your VCR on or off. If your VCR has multiple inputs, you may need to select the correct input on the VCR as well by pressing a “Input,” “Source,” “Select,” or “TV/Video” button on your VCR remote control.

Ø Try connecting the recorder directly to the TV. If doing this allows you to see the “Welcome” screen, the problem is not with your DIRECTV® Digital Satellite Recorder but with your connections between your recorder and your TV. Try adding the other components one at a time to isolate which connection is causing the problem.

Ø The cables you are using to connect your recorder to your TV or other equipment may be damaged or defective. Try exchanging the cables connected to the recorder with other cables that you know are working properly.

My DIRECTV® Recorder is unresponsive or frozen

Press the Power button on the front panel of your recorder. You should then see the "Welcome" screen and your system will be restarted within about 60 seconds. If this happens on a regular basis, contact Customer Support for further troubleshooting (see your manual for the phone number).
Installation Issues

How do I use the dual tuner feature?

To use the dual tuner feature on your DIRECTV® Digital Satellite Recorder, you will need to do the following:

1. Make sure that you have TiVo software version 3.1 or later. To find your current software version, go to DIRECTV Central > Messages and Setup > System Information. If your receiver has an older version of software, it will update automatically within a few days after you set it up.

2. To utilize dual tuners, you must have a round Dual LNB satellite dish or an oval satellite dish. You will need to run 2 separate satellite cables from your satellite dish to your DIRECTV Recorder. These cables should be connected to the inputs labeled “Satellite 1” and “Satellite 2” on the back of your receiver. (diagram). See the Installation Guide for setup examples, detailed explanations, and diagrams of different setups. If you are not sure what type of satellite dish you have, check the manual that came with the dish or try the link below.

3. Once you have connected the two cables from your satellite dish to your receiver, you will need to repeat Satellite Guided Setup. Go to DIRECTV Central > Messages & Setup > Receiver & Phone Setup > Satellite Dish Setup > Repeat Satellite Dish Guided Setup.

4. Enjoy being able to record two programs at once while you watch another previously recorded program!
How do I connect more than one satellite receiver?

If you have more than one satellite receiver that you would like to use (one in two different rooms for example), you can use the procedure below to connect both your DIRECTV® Digital Satellite Recorder and an additional DIRECTV Receiver to your satellite.

If you have a Dual-Output LNB single satellite dish (with one arm), you’ll need to add a multiswitch, as shown in the illustration below. The multiswitch combines the outputs of the 2 satellite signal outputs on the roof into a number of identical outputs. For example, the multiswitch shown here combines the 2 satellite outputs (A and B) and sends an identical signal through the 4 coaxial cables (here, labeled 1, 2, 3, and 4). Multiswitches can be purchased at a local electronics store or through various online retailers.

1. Connect the multiswitch as shown in the illustration below.

2. Connect 2 cables from the multiswitch to your DIRECTV Recorder (see lower left side of figure above).

3. Connect another cable from your multiswitch to your additional receiver (see lower right side of figure above).

Note: If you have an oval 2-satellite (2 arms) or oval 3-satellite (3 arms) dish, it probably already has the 3 outputs required so you may not need to add an additional multiswitch.
How do I connect a cable or antenna signal to my receiver?

DIRECTV® Digital Satellite Recorders are designed to work exclusively with DIRECTV® programming. If you also have cable or antenna channels that you want to watch, you can view them by connecting your receiver as described below. Please note that you will not be able to use DIRECTV® Digital Video Recording (DVR) functions or record programs from your cable or antenna channels.

1. Connect the two satellite cables to the two satellite inputs on the DIRECTV Recorder.

2. Run an RF coaxial cable from the antenna or cable source on the wall to the VHF/UHF In connector on the DIRECTV Recorder.

3. Run another RF coaxial cable from the RF Out connector on the DIRECTV Recorder to the TV.

To watch your cable or antenna channels, put the receiver in standby mode as follows:

Enter standby mode by going to DIRECTV Central > DIRECTV Menu > Standby. Although the green power light on the receiver goes out, your receiver will continue to record DIRECTV programs that you scheduled. While in standby mode, the receiver will pass your unmodified cable or antenna signal through to your TV. Please note that you will not be able to use features of the DIRECTV DVR service on your cable or antenna channels.

To resume watching DIRECTV channels and using the features of the DIRECTV DVR service:

Press the DIRECTV button on your remote control. The green power light goes on and all DIRECTV DVR service features are now available.
What type of satellite dish do I have?

- The Bottom Line: If you have a two-satellite (two arms) or three-satellite dish (three arms), and it has at least 2 outputs, you have enough outputs for the recorder’s Dual Tuner feature.

- If you have a one-satellite dish, be sure it has a dual-output LNB. If it doesn’t, contact DIRECTV or an authorized representative to find out how to upgrade your existing dish.

- If you can’t see your dish, here are some ways you can determine whether you have a Dual LNB dish:

  - Consult the documentation that came with the dish. That is the easiest way to determine your dish type.
  - If you can use a multiswitch, you have a Dual LNB dish.

If you have 2 or more satellite receivers connected to the same dish and can watch different channels at the same time on each one, you have a Dual LNB dish. (If a Single LNB dish is connected to two satellite receivers, you cannot watch different channels on different TVs at the same time.)

A Dual LNB dish has two RF jacks, or connectors, inside the projecting piece that points back towards the dish; a Single LNB has one. If you’re not sure how many connectors your dish has, you can remove the cover of the projecting piece and look inside. (This cover would be removed to connect additional cables, but removing it yourself may void your dish’s warranty—you may wish to call a professional installer instead.)

What if I don’t have enough inputs on my TV?

If your TV doesn’t have enough inputs to accommodate various devices connected in parallel, you can obtain an Audio/Video switch box, also known as an A/V switcher at your local electronics retail store for around $30 dollars. These switchers enable you to connect multiple devices like a DVD player, VCR, DIRECTV® Digital Satellite Recorders, or game consoles to your existing single-input TV. Another way to connect multiple devices to your single-input TV is to use an A/V receiver.

If your TV has only one audio jack, it supports mono audio, but not stereo. Connect the DIRECTV Recorder to the TV set using the RF cable instead.

How can I purchase professional installation?

You can arrange for professional installation of your DIRECTV Recorder by calling DIRECTV at 1-800-DIRECTV (1-800-347-3288).
Equipment Issues

My DIRECTV® Digital Satellite Recorder is unresponsive or frozen
Press the Power button on the front panel of your recorder. You should then see the "Welcome" screen and your system will be restarted within about 60 seconds. If this happens on a regular basis, contact Customer Support for further troubleshooting (see your manual for the phone number).

My DIRECTV Recorder does not power on
To verify that your DIRECTV Recorder is turned on, do the following:

1. Look for the green light on the front of your recorder.

2. If the green light is not on, verify that a power cord is securely plugged into the back of the recorder and that the power outlet is working.

3. Press the DIRECTV button on your remote control to verify that your recorder is not in "Standby" mode.
DIRECTV® Digital Video Recording Features

The beginning or end of my program was cut off

Some networks begin shows earlier or later than their schedule indicates. Because your DIRECTV® Digital Satellite Recorder starts and ends a recording at the time listed in the schedule, you may miss the beginning or end of a particular program. If this happens for a show that you record regularly (or you want to be sure to catch the end of the big game), you can use the Overtime Scheduler™ to add "padding" to the beginning or end of a recording. You can add padding while you are scheduling a recording, to any recording on the "To Do List," or even while a recording is in progress.

To add padding while scheduling a recording:

The Program Information screen that appears when you select a program includes the choices "Record This Episode" and "Get a Season Pass." Highlight one of these options, then press RIGHT arrow and select "Options." Change the "Start Recording" or "Stop Recording" options as appropriate.

To add padding to a program on your "To Do List" (DIRECTV Central > Messages and Setup > Pick Programs To Record > To Do List):

Select the program that you want to change. On the next screen, select "Options." Change the "Start Recording" or "Stop Recording" options as appropriate.

To add additional padding to the end of a program that is currently recording:

Highlight the program on your "Now Playing List" screen and press RIGHT arrow. Highlight "Change recording options." Change the "Start Recording" or "Stop Recording" options as appropriate.

Can I keep a recording longer?

If you would like to save a particular recording longer, highlight it on your Now Playing List screen and press the RIGHT arrow key on your remote. Highlight the "Save Until" option and press SELECT. You can extend the time that the recording will be saved or mark it "Save Until I Delete" if you want to keep it for an extended period of time.

You can also save a recording to a VCR tape for long-term storage.

Can I record two programs at the same time?

You can record two shows at once with your DIRECTV Recorder. The dual-tuner feature also makes it possible to record two shows at the same time and watch a third pre-recorded program. To use the dual-tuner feature, your DIRECTV Recorder must be connected to two lines from a Dual LNB DIRECTV satellite dish. Professional installation is recommended. Find out more at DIRECTV.com. If you need assistance connecting your second tuner, see Installation Self Help.
How can I save a recording to my VCR?

If you have your VCR connected between your DIRECTV® Digital Satellite Recorder and your television set, you can save programs from the recorder to your VCR. See your installation guide for hookup illustrations if you are not sure if you have your equipment connected correctly. To save programs to your VCR follow these steps:

1. On the "Now Playing List" screen, highlight the program you want to save.
2. Press the RIGHT arrow to go to the Program Information screen.
3. Select "Save To VCR."
4. Select "Start saving from beginning."
5. Press the RECORD button on your VCR.
6. You will see a black screen with information about the program and then the program will play.

Now Playing List is filled with TiVo® Suggestions

TiVo Suggestions is a personalized list of shows selected to match your preferences. How is this magic possible? Any time you watch programs, live or recorded, or browse programs with the TiVo Live Guide, you can rate them by pressing the THUMBS UP and THUMBS DOWN buttons. You can give a program up to three thumbs.

Over time, the more shows you rate with your THUMBS buttons, the better TiVo's Suggestions will be at finding programs you like. The suggestions are listed under TiVo's Suggestions in order of how closely they match your preferences.

As an added bonus, when the recorder has empty space, it may automatically record some of TiVo's suggestions. You will find them at the bottom of the Now Playing List, below programs you requested. They will have a TiVo icon next to them. The Suggestions never replace shows you request or prevent them from being recorded. TiVo's suggestions are always the first programs deleted to make room for recordings you request. If you prefer to turn off the automatic recording of suggestions, you can do so by going to DIRECTV Central > Messages and Setup > TiVo's Suggestions.

Can I skip over channels I don't watch?

If you want to remove a particular channel from the Live TiVo guide, you can remove it from the "Channels you Receive" screen. Once removed from this screen, it will no longer show in the TiVo Live Guide. You will still be able to tune to the channel by using the numbers on your remote control.

Go to DIRECTV Menu > Customize Channels > Channels You Receive
Why can I only watch part of my recording?

There are a couple of reasons why a recording might be shorter than you expected:

- If the video signal from your satellite dish is lost during a program, the recorder will cut out the blank spots of the recording. For example, if the signal was lost for 5 minutes, a 30 minute program will show as a 25 minute recording on the Program Information screen.

- If a member of your household changes channels during a recording, the recording will stop at the time of the channel change.

Note: Networks sometimes do not air programs on schedule.

Can I jump back and forth between two channels?

You can switch back and forth between the current and last channel by pressing the ENTER key on your DIRECTV® Digital Satellite Recorder remote control.

Additionally, if you have dual-tuners active, you can switch between the two tuners by pressing the DOWN key on your remote. This will allow you to watch two shows while maintaining a 30 minute buffer on each of them.
Phone Call Issues

How long does the regular call to DIRECTV take?
It is typically a short call, less than three minutes. When the software is being updated, it may take longer, but this happens rarely (a few times a year).

My recorder is not making the regular call to DIRECTV.

- If you use a wireless phone, retry the call using a phone which is connected to a standard wall jack. Verify that your phone line is working by connecting a phone to the phone cord and checking for a dial tone. Make sure the phone cord is connected to the recorder and the wall jack.

- Try another local dial-in number from the Phone Dialing Options screen. To get to Phone Dialing Options, from DIRECTV Central, select “Messages & Setup,” then “Recorder & Phone Setup,” then “Phone Connection,” then “Change Dialing Options.”

- You may need to change your Phone Dialing Options from the default. After making changes, make a test call. (Choose Make Test Call from the Phone Connection screen.) If the test call succeeds, choose “Make Daily Call Now.”

- If you have voice mail or use another non-standard dial tone, go to “Messages & Setup,” then “Recorder & Phone Setup,” then “Phone Connection,” then “Change Dialing Options.” Turn off “Dial Tone Detection.”

- If you have call waiting, go to “Messages & Setup,” then “Recorder & Phone Setup,” then “Phone Connection,” then “Change Dialing Options.” Disable call waiting by entering the correct prefix in Call Waiting Prefix (usually *70,).

- If you dial a prefix for outside lines, go to “Messages & Setup,” then “Recorder & Phone Setup,” then “Phone Connection,” then “Change Dialing Options.” Set a Dial Prefix—for example, “9,” (nine, followed by a comma for a pause).

- Your phone line may have low voltage. Try setting Phone avail. detection to Off under Dialing Options. If you have a caller ID box, try removing it from the line since some models interfere with the recorder modem’s ability to make a call.

- If you have a cordless telephone, fax machine, or computer modem connected to the same line, go to “Messages & Setup,” then “Recorder & Phone Setup,” then “Phone Connection,” then “Change Dialing Options.” Turn off “Phone avail. detection.”

- You might have too much line noise to make a connection. The recorder ships with a 25 foot phone cord. Try a shorter cord, or buy a line noise filter at your local electronics store.

Do I need to keep the phone connected all the time?
The recorder should be plugged in to a land-based phone line at all times to receive the DIRECTV® Video Recording service and DIRECTV® sports packages, and to communicate the purchase of pay per view events.
Does the regular DIRECTV® Digital Video Recording service phone call cost me any money?

Calling DIRECTV via your local dial-in number is the same as making a local telephone call.

Does the occasional phone call to DIRECTV cost me any money?

No, because your recorder only calls DIRECTV periodically and a toll free number is used to make the call.

What if I need to make a call while the recorder is using the phone?

When you pick up the phone, the recorder will interrupt the download process and free the phone line for your call. Hang up and pick up the line again to make a call. The recorder will attempt its call again later.

What if my phone line is not operating when the recorder tries to make a service call?

The recorder will continue to attempt to call several times a day until it is successful. You can check the status of the phone calls by going to Messages & Setup and looking at the Phone Connection screen.

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Actual recording capacity depends on the type of programming being recorded. For full functionality, this recorder requires connection of two (2) satellite inputs from a dual LNB DIRECTV System dish antenna. ACTIVATION OF PROGRAMMING MAY BE SUBJECT TO CREDIT APPROVAL AND REQUIRES VALID SERVICE ADDRESS, SOCIAL SECURITY NUMBER AND/OR MAJOR CREDIT CARD. DEPOSIT OR PREPAYMENT MAY BE REQUIRED. Blackout restrictions and other conditions apply to sports programming. Professional and collegiate sports subscriptions sold separately. Programming subject to change. To receive DIRECTV programming, a subscription is required and all DIRECTV Receivers must be continuously connected to the same land-based phone line. Receipt of DIRECTV programming is subject to terms of the DIRECTV Customer Agreement; a copy is provided at DIRECTV.com and with your first bill. DIRECTV services not provided outside the U.S. A valid programming subscription is required to operate DIRECTV System hardware. Hardware and programming sold separately. For this product, digital video recording features function only with DIRECTV programming. DIRECTV programming and digital video recording service subscriptions sold separately. Equipment specifications and programming options may vary in Alaska and Hawaii. TiVo, the TiVo logo, Showcases, Thumbs Up, Thumbs Down, WishList and Season Pass are trademarks of TiVo, Inc. and are used with permission. ©2000 DIRECTV, Inc. DIRECTV and the Cyclone Design logo are registered trademarks of DIRECTV, Inc., a unit of Hughes Electronics Corp. All other trademarks and service marks are the property of their respective owners.