text_dishpvr.fm Page 1 Tuesday, March 2, 2004 12:35 PM

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REMOTE CONTROL BASICS

This remote control gives you easy access to all the features of a DISH Network satellite TV receiver. You can set up the remote to control the satellite TV receiver and up to three other devices. These devices can be a TV, a VCR or DVD player, and a third device.

MODELS SUPPORTED BY THIS GUIDE

This user's guide supports the following remote control models as shown on the label on the back of the remote:

- 5.0 - Infrared (IR) only. For use with appropriate IR-controlled DISH Network receivers.
- 6.0 - Infrared/Ultra-High Frequency Pro (IR/UHF Pro). For use with appropriate UHF Pro-controlled DISH Network receivers. The 6.0 remote can be converted to one of three different remote types used on a DISH Player-DVR 522 receiver:

With the blue 2 UHF Pro key installed, this remote will operate the 2 UHF Pro side of the DISH Player-DVR 522 receiver. The remote comes with this key already installed.

With the green 1 key installed (no UHF Pro marking), this remote will operate the 1 IR side of the DISH Player-DVR 522 receiver. This remote will look and work exactly like a 5.0 IR remote. See instructions in *Converting the 6.0 Remote*.

With the green 1 UHF Pro key installed, this remote will operate the 1 side of the DISH Player-DVR 522 receiver from a distance using UHF Pro. See instructions in *Converting the 6.0 Remote*.

If you set up your DISH Player-DVR 522 to operate the 1 side using UHF Pro, the two UHF Pro remotes for this receiver will interfere with each other when operated at the same time. This may prevent the remotes from operating the receiver momentarily.

- 8.0 - Infrared/Ultra-High Frequency Pro (IR/UHF Pro). For use with appropriate UHF Pro-controlled DISH Network receivers.

INSTALLING BATTERIES

The remote control requires 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.

1. Press down on the battery cover and slide the cover off.
2. If you are replacing batteries, 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.

UHF AND IR SIGNALS

The remote control may use either UHF radio signals or IR light signals to control the receiver but uses only IR signals to control other devices.

- IR signals travel only short distances (up to 40 feet), and cannot go through walls or other solid objects. You must point the remote control right at the device you want to control, with no objects to block the signal path.
- UHF signals travel long distances (up to 200 feet) 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. To handle this problem, you may want to change the remote and receiver addresses. See *Setting Up to Control the Satellite Receiver* on page 4.
- Confirm that the UHF remote antenna is attached to the receiver's back panel UHF REMOTE ANTENNA input so you can use your UHF Pro remote.

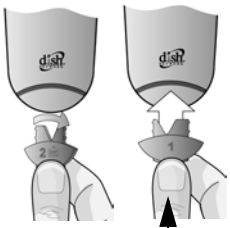
CONVERTING THE 6.0 REMOTE CONTROL

By replacing the key at the bottom of the 6.0 remote, this remote can be converted to look and work like a 5.0 IR or to operate like a second UHF Pro remote to control the side of the DISH Player-DVR 522 receiver. The instructions that follow show you how to replace this key. After replacing the key, follow the instructions in *Setting Up to Control the Satellite Receiver*.

Note: If you do not need to replace the key, you do not need to complete the instructions that follow. Go to *Setting Up to Control the Satellite Receiver*.

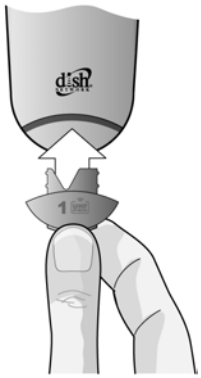
1. Slide the battery cover off.
2. Insert your thumbnail in the seam between the remote control and the blue 2 key to separate the key from the remote control.

3. Grasp the key at the bottom and pull down firmly to remove.
4. If you are converting the remote to look and work like a 5.0 IR remote, then turn the removed key over with the green 1 side up (this key should not have a UHF Pro marking). Reinstall the key with the green side showing. Make sure the key snaps in place.



Note: Key has no UHF Pro marking.

5. If you are converting the remote to operate like a second UHF Pro remote to control the 1 side of the DISH Player-DVR 522 receiver, then get the green 1 UHF Pro key provided separately. Install this key in the remote with the UHF Pro marking showing.



Note: Key has the UHF Pro marking.

If you set up your DISH Player-DVR 522 to operate the 1 side using UHF Pro, the two UHF Pro remotes for this receiver will interfere with each other when operated at the same time. This may prevent the remotes from operating the receiver momentarily.

6. If you have not already installed batteries, install them now. See *Installing Batteries* for further details.

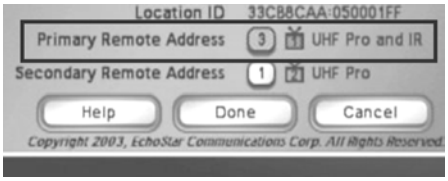
7. Slide the battery cover back into place.

SETTING UP TO CONTROL THE SATELLITE RECEIVER

The remote and the receiver must be set up on the same address so that the remote can control the receiver. When you get the remote, it's already set up to control the receiver on address 1. However, your receiver may be set to a different address or, in the case of the DISH Player-DVR 522, may need some additional setup. To set up the remote and receiver to work together on the same address, use the following instructions.

1. *For DISH Player-DVR 522 receivers only*: If you are using a 6.0 remote control with the green 1 UHF Pro key installed, perform the steps a. through e. below. If not, then go to step 2.

   a. Open the **TV1 UHF Pro Setup** screen by pressing MENU-6-1-6 on the remote control.
   b. Select **Enable** from the **TV1 UHF Pro Setup** screen.
   c. Press the SYS INFO button on the front panel to open the **System Information** screen.
   d. Move the highlight to the address for the **Primary Remote Address** as shown below. This is important - if you do not do this, your remote will change the receiver's **Secondary Remote Address** and cause your Remote Control 1 to control the 2 side of your receiver.



Note: Highlight the **Primary Remote Address** if you are using a 6.0 remote with a green 1 UHF Pro key.

Do not do this step if you are using 6.0 Remote with blue 2 key. This will cause your Remote Control 2 to control 1 side of your receiver.

   e. Go to step 3 below.

2. Open the **System Information** screen. Consult your receiver user's guide for instructions on how to open this screen without using the remote control. For most receiver models which use this remote, press the SYS INFO button on the receiver front panel. The **System Information** screen will show either one **Remote Address**, or it may show a **Primary Remote Address** and a **Secondary Remote Address**.

   Note: On the DISH Player-DVR 522, leave **Done** highlighted.

3. 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. The SAT mode button will blink.

4. Use the number buttons to enter any number from 1 to 16. The SAT mode button goes out after you enter each digit, and then lights up again.

   Write down the number you entered: _____

5. Press the POUND (#) button.
   If you entered the address correctly, the SAT mode button will flash three times.

6. Press the RECORD button. If you are using a 6.0 remote with the green 1 key (no UHF Pro marking), you must point the remote control at the receiver while pressing the RECORD button.

7. Make sure the **System Information** screen shows the correct remote address as follows:

   - If only one **Remote Address** is shown, make sure this address matches the number you entered in step 5.
   - If you are using 6.0 remote with the green 1 UHF Pro key, make sure that the **Primary Remote Address** shows **UHF Pro and IR** and that this address matches the number you entered in step 4.
   - If you are using 6.0 remote with the green 1 key (with no UHF Pro marking), make sure that the **Primary Remote Address** shows **IR** and that this address matches the number you entered in step 4.
   - If you are using 6.0 remote with the blue 2 UHF Pro key, make sure that the **Secondary Remote Address** matches the number you entered in step 4.

8. Close the **System Information** screen. On most receivers, this is done by selecting the **Done** button. See your receiver user's guide for more information.

CHECKING THE REMOTE ADDRESS

To read out the remote control address setting:

1. Press and hold the SAT mode button for three seconds until all mode buttons light. Then, let go.
2. Press the POUND (#) button twice while watching the SAT mode button.
3. Count the number of times the SAT mode button flashes. This number is the remote address. For example, if the SAT mode button flashes 6 times, this indicates the remote address is set to 6.

SETTING UP TO CONTROL OTHER DEVICES

To use the remote to control other devices (such as a TV, VCR, DVD player, tuner, or amplifier), you must first program it to control these other devices. You can do this by either following the instructions in *Setting Up Using Device Code Tables* on page 9, or the *Setting Up Using Device Codes Scan* procedure described on page 10.

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 code 748, follow the instructions to program the remote to control the TV using code 748, and then repeat the instructions for the VCR using the same code.

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 the POWER, MUTE, and VOLUME buttons to control your TV. Also, when you use the remote to control your VCR in Limited Mode, you will only be able to use the POWER and VCR function buttons. The section *Setting Up Using Device Codes Tables* has a step that tells the remote control to go into Limited Mode.

Note: Limited Mode can not be used with audio amplifiers.

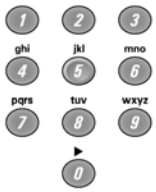
SETTING UP USING DEVICE CODE TABLES

You can set up the remote to control other devices using the device codes listed on page 29.

1. Use the device's buttons or its remote control to turn on the device.
2. Find the brand name of the device in the tables starting on page 29.

   If the brand isn't listed, see *Setting Up Using Device Codes Scan* on page 10.
3. Press and hold the mode button for the device you want the remote to control, for about three seconds. When all the other mode buttons light up, let go of the mode button - that mode button should now be flashing.

   For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, the TV mode light will flash.
4. *Only for the AUX mode*, Use a number button to enter 0 for a second TV, or 1 for a second VCR or DVD player, or 2 for a tuner or amplifier.
5. Use the number buttons to enter one of the device codes from the table.



6. Only for Limited Mode, Press 1.

   Note: Skip this step if you do not want to use Limited Mode.
7. Press the POUND (#) button. If you entered the code correctly, the mode button flashes three times.

8. Press the blank POWER button to test if the code works for the device. If it does, the device should turn off.

9. Turn the device back on and try some other buttons to make sure they work. Sometimes, the blank POWER button works when other buttons don't. If the code works for other buttons, *stop here*.

10. If the code you entered *doesn't* work, do steps 3 through 9 *again* with another device code from the tables.

11. If you cannot find a code that works, try *Setting Up Using Device Code Scan*.

SETTING UP USING DEVICE CODE SCAN

If the code for your device is not listed in the tables on starting page 29, use this procedure to scan the remote control's memory for the device code. Here's what to do:

1. Use the device's buttons or its remote control to turn the device on.

2. Press and hold the mode button for the device you want the remote to control, for about three seconds. When all the other mode buttons light up, let go of the mode button - that mode button should now be flashing.

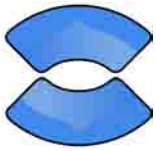
   For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, the TV mode light will flash.

3. *Only for the* AUX *mode*, use the number buttons to enter 0 for a second TV, 1 for a second VCR or DVD player, or 2 for a tuner or amplifier. Then press the STAR (*) button.

4. Press the blank POWER button.

5. Press the up or down arrow button until the device turns off. You will have to do this repeatedly to scan through all codes.

   Note: The mode button for the device will flash rapidly eight times when you've scanned all the codes for that device.



6. If the remote reaches the correct code, the device turns off. When this happens, press the POUND (#) button to store the code in the remote.

7. Press the blank POWER button to turn the device back on.
8. Try some other buttons to make sure they work. Sometimes, the blank POWER button works when other buttons don't.

CHECKING THE DEVICE CODES

You can find out what device code you've set for each remote control mode.

1. Press and hold the mode button for the device you want the remote to control, for about three seconds. When all the other mode buttons light up, let go of the mode button - that mode button should now be flashing.

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

2. Press the POUND (#) button *twice*. 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 example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

   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 or DVD player; and two flashes is for a tuner or amplifier. For example, if the TV code is 570, the AUX mode button flashes once quickly, pauses, flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

SWITCHING BETWEEN TV AND DEVICE VOLUME CONTROL

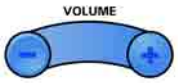
When you set up the remote to control a TV, the MUTE and VOLUME buttons control the TV volume. However, if you want to use the AUX mode to control a tuner or amplifier and the device has a volume setting, you can set up the remote to control the device's volume instead of the TV volume.

To set the remote to control the device's volume:

1. Press and hold the AUX mode button for three seconds, and then let go of it. The AUX mode button will blink.

2. Press the POUND (#) button.

3. Press the plus (+) side of the VOLUME button.



4. Press the 0 number button.

5. Press the POUND (#) button.

   The AUX mode button flashes three times.

6. Press the SAT mode button.

7. Press the plus (+) and minus (-) sides of the VOLUME button. The device's volume changes and the AUX mode button lights instead of the TV mode button.

To set the remote back to control the TV volume:

1. Press and hold the TV mode button for three seconds, and then let go of it. The TV mode button will blink.

2. Press the POUND (#) button.

3. Press the plus (+) side of the VOLUME button.

4. Press the 0 number button.

5. Press the POUND (#) button.

   The TV mode button flashes three times.

6. Press the SAT mode button.

7. Press the plus (+) and minus (-) sides of the VOLUME button. The TV's volume changes and the TV mode button lights instead of the AUX mode button.

REMOTE CONTROL OPERATION

OPERATING MODES

You can set the remote to four different modes to control the receiver or other devices. You may need to change the remote address to operate the receiver. See *Setting Up to Control the Receiver* on page 4. You must set up the remote to control a device like a TV, VCR, or DVD player. See *Setting Up to Control Other Devices* on page 8.

Use the remote control's mode buttons, SAT (satellite receiver), TV (for a TV), VCR (for a VCR or a DVD player), and AUX ("auxiliary," for a second TV, a second VCR, a tuner, or an audio amplifier) to set the remote 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.

CONTROLLING THE SATELLITE RECEIVER

SAT MODE BUTTON

Press this button to set the remote to SAT ("satellite") mode to control the receiver. The SAT mode button's back light stays lit for about two seconds to show you've set the remote to SAT mode. Make sure you keep the remote in SAT mode to use the following buttons.

Note: Your satellite receiver may not provide all of the functions described as follows. Consult your receiver user's guide for the features your receiver provides.

TV/VIDEO BUTTON

If you connect the receiver with its back panel TV ANTENNA/CABLE IN and TV SET OUT ports, use this button to switch the receiver between the satellite signal (connect it to the SATELLITE IN port) and another video signal like a cable or broadcast TV antenna input (connect it to the receiver's TV ANTENNA/CABLE IN input).

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

SD/HD INPUT BUTTON

Press the SD/HD INPUT button to toggle between HD Output mode, where only the HD video outputs are enabled, and SD Output mode, where only the SD video outputs are enabled. Consult your receiver user's guide for other uses of this button.

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

POWER BUTTONS

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

Press the TV POWER button to turn your TV off and on.

Note: You must set up the remote to control the TV for the TV POWER button to work. See *Setting Up to Control Other Devices* on page 8.

VOLUME BUTTON

Press this button to raise (+) or lower (-) the TV sound volume.

Note: You must set up the remote to control the TV for the VOLUME button to work. See *Setting Up to Control Other Devices* on page 8.

MUTE BUTTON

Press this button to turn the TV sound on or off.

Note: You must set up the remote to control the TV for the MUTE button to work. See *Setting Up to Control Other Devices* on page 8.

MENU BUTTON

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

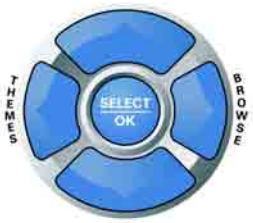
PAGE UP AND PAGE DOWN BUTTONS

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.

Note: An “event” is any satellite program.

GUIDE BUTTON

Press this button to open the **Program Guide**. When you have the **Program Guide** open, press this button to change between your **Favorite Lists**.



ARROW BUTTONS

- Change channels - Press the UP or DOWN arrow button to change channels.
- Open the **Browse Banner** - Press the RIGHT arrow button.

- Show **Themes** - Press the LEFT arrow button.
- Move around within the **Program Guide**, menus, and **Browse Banner** - Press the UP, DOWN, LEFT, and RIGHT arrow buttons.

SELECT BUTTON

Press this button to select the option you highlight in a menu.

Note: The SELECT button may also be labeled SELECT/OK.

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

- Program information - Press the INFO button for more information when you watch a program, or when you have the **Program Guide**, **Browse Banner**, or **Themes** list open.
- Help - Press the INFO button to see help information when a **Help** button appears in a menu.

VIEW TV BUTTON

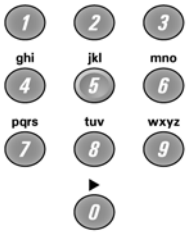
- When you watch a program, press this button to briefly display the **Program Banner**.
- When you use a menu, press this button to cancel and go back to watch a program.

CANCEL BUTTON

Press this button to cancel and go back to the previous menu or to watch a program.

DISH BUTTON

Press the dish button to go to **DISH Home Interactive TV** for receivers that support this feature.



NUMBER BUTTONS

- Change the channel - Use the NUMBER buttons to enter a channel number to change the channel. If you have the **Program Guide** open, use the NUMBER buttons to jump to the channel listing on the **Program Guide**.
- Scroll through the **Program Guide** by time - When you have the **Program Guide** open, enter a number of hours using these buttons, and then press the RIGHT or LEFT arrow button to skip the **Program Guide** forward or backward that many hours. Enter menu options - For an option with a number, you can press the number for that option *instead* of highlighting and selecting the option.
- Enter numbers in a blank - Highlight the place where you need to enter the number. Press a number button(s) (or, you can use the UP/DOWN arrow buttons to enter the number).
- Search - Use the letters above the NUMBER buttons while in the **Search** menu. For example, when looking for the channel and times to watch *Rudy Fremmel 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” (see your receiver’s *User Guide* for more information).

STAR BUTTON

Press the STAR button to back space while using the search function of your receiver.

Note: Your remote control will either have the STAR button or the FORMAT/STAR button, but not both.

FORMAT/STAR BUTTON

Press the FORMAT/STAR button to toggle through the available display modes (Normal, Zoom) on widescreen displays.

Note: Your remote control will either have the STAR button or the FORMAT/STAR button, but not both.

POUND (#) BUTTON

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

DVR BUTTONS

The following button descriptions mainly apply for remote controls used with DISH Player-DVR receivers. For a description of these buttons when controlling a VCR or DVD player, see *Control a VCR (or a Second VCR or a DVD Player)* on page 25.

DVR BUTTON

Press the DVR button to open the DVR Events menu, which shows all of the DVR Events recorded on the receiver.

PLAY BUTTON

Press the PLAY button to play back a recorded event. Also, press this button to switch from pause, fast forward, or back to normal play back.

STOP BUTTON

Press the STOP button to stop recording a program or to stop playing a recorded program.

PAUSE BUTTON

Press the PAUSE button to pause a program. Press this button again to go back to watching the program.

FWD BUTTON

Press the FWD (“forward”) button to:

- Move ahead through a program four times as fast as normal play. Press this button a second time to move ahead at 15 times, a third time to move ahead at 60 times, and a fourth time to move ahead at 300 times as fast as normal play.
- Move ahead through the program in slow motion. To use this feature, press the PAUSE button and then press the FWD button. Each time you press the FWD button, the program advances faster until it reaches normal speed. If you continue to press the button, the program will advance as described in the previous paragraph.

SKIP FWD BUTTON

Press the SKIP FWD button to:

- Skip ahead about 30 seconds in a program. Press this button again to skip ahead again.
- Skip ahead one frame at a time. To use the frame advance feature, press the PAUSE button and then press the SKIP FWD button.
- Skip ahead one day at a time in the EPG.

BACK BUTTON

Press the BACK button to:

- Move back through a program four times as fast as normal play. Press this button a second time to move back at 15 times, a third time to move back at 60 times, and a fourth time to move back at 300 times as fast as normal play.
- Move back through the program in slow motion. To use this feature, press the PAUSE button and then press the BACK button. Each time you press the BACK button, the program reverses faster until it reaches normal speed. If you continue to press the button, the program will reverse as described in the previous paragraph.

SKIP BACK BUTTON

Press the SKIP BACK button to:

- Skip back about ten seconds in a program. Press this button again to skip back again.
- Skip back a few frames at a time. To skip back through a few frames, press the PAUSE button and then press the SKIP BACK button.
- Skip back one day at a time in the Electronic Program Guide (EPG).

  Note: The skip back button will not skip back the EPG beyond the current date and time.

RECORD BUTTON

Press the RECORD button to record a program.

Note: You also use this button if you change the remote control address. See *Setting Up to Control the Satellite Receiver* on page 5.

PICTURE IN PICTURE (PIP)

Press the PIP button to open the **PIP** window. To make the **PIP** window larger, press this button again. Press the button a third time to close the **PIP** window.

POSITION BUTTON

Press the POSITION button to move the **PIP** window to different positions on the TV screen.

SWAP BUTTON

Press the SWAP button to swap the video in the main display with the video in the **PIP** window.

RECOVER BUTTON

Use the RECOVER button if you accidentally change the channel or video input on your TV and cannot get the picture back from your satellite receiver. When you press the RECOVER button as described in the following section, the remote control sends commands to your TV to change channels or video inputs to try to get you back to watching satellite programming.

Note: RECOVER only works if the remote control has been set up to control the TV and/or VCR, if connected (see *Setting Up to Control Other Devices* on page 8).

USING THE RECOVER BUTTON

Use this procedure only if you have accidentally changed the TV channel or video input. It does not recover lost satellite signal.

Note: RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of the RECOVER button. You may need to press the RECOVER button up to 30 times to recover your satellite TV video.

1. Press and hold the RECOVER button until all four mode buttons light, and then let go of the button. The SAT mode button flashes twice and then all four mode buttons flash three times.
2. Press the RECOVER button. Wait for the TV mode button to flash once and then all four mode buttons to flash once.
3. If you see the **System Info** screen, press the SELECT button to close the screen. You have recovered your satellite video.
4. If you do not see the **System Info** screen, repeat steps 2 and 3 until you have recovered your satellite video.

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

PROGRAMMING THE RECOVER BUTTON TO TUNE THE TV TO A SPECIFIC CHANNEL

The RECOVER button can be programmed to tune your TV back to the TV channel you use to watch satellite programming.

1. Program your remote to control your TV using the instructions in *Setting Up to Control Other Devices* on page 8.
2. Press and hold the TV mode button until all the other mode buttons light up, and then let go of the button. The TV mode button flashes.
3. Press the STAR (*) button.
4. Enter the three digits of your channel number. For example, if your remote TV is set to channel 60, enter 0-6-0.
5. Press the POUND (#) button. The TV mode button flashes three times.

CONTROLLING A TV (OR A SECOND TV)

Only the buttons described here control a TV. Some of the buttons described heremay *not* control your TV. See your TV user's manual for information about the TV's features.

You can set up the remote to control a second TV in AUX mode, the same way it controls the first TV in TV mode. See *Setting Up to Control Other Devices* on page 8.

TV MODE BUTTON

You must first set up the remote to control the TV. See *Setting Up to Control Other Devices* on page 8. Then press the TV mode button to set the remote to TV mode. The TV mode button will stay lit for two seconds to show you've set the remote to TV mode. Make sure you keep the remote in TV mode to use the buttons described in this section.

TV/VIDEO OR SD/HD INPUT BUTTON

If the TV has video input options, use this button to switch the TV video input.

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

POWER BUTTONS

Press *either* POWER button to turn the TV on or off.

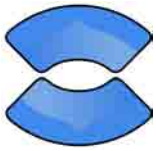
Note: If you set up the remote to control one TV in TV mode and an additional TV in AUX mode, pressing the TV POWER button controls *only* the TV you set up in TV mode.

MUTE BUTTON

Press this button to turn the TV sound on or off.

VOLUME BUTTON

Press this button to raise (+) or lower (-) the TV sound volume.



UP/DOWN ARROW BUTTONS

Use these buttons to change channels on the TV.

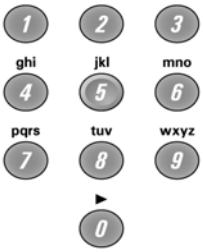
Note: These buttons do not change the channels on the TV if the remote control is in Limited Mode.

SELECT BUTTON

The SELECT button works as the ENTER button for a TV.

RECALL BUTTON

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



NUMBER BUTTONS

Use these buttons to directly enter a different channel.

Note: These buttons do not change the channels on the TV if the remote control is in Limited Mode.

CONTROLLING A VCR (OR A SECOND VCR OR A DVD PLAYER)

Only the buttons described here control a VCR or DVD player. Some of the buttons we tell you about here may *not* control your VCR. See your VCR or DVD player user's manual for information about the features.

You can set up the remote to control a second VCR or DVD player in AUX mode, the *same* way it controls the first VCR or DVD player in VCR mode. See *Setting Up to Control Other Devices* on page 8.

VCR MODE BUTTON

You must first set up the remote to control the VCR or DVD player. See *Setting Up to Control Other Devices* on page 8. Then press the VCR mode button to set the remote to VCR mode. The VCR mode button will stay lit for two seconds to show you've set the remote to VCR mode. Make sure you keep the remote in VCR mode to use the buttons we tell you about here.

You must put the remote in VCR mode to set it up to control a DVD player. Put the remote in VCR mode to use it to control a DVD player.

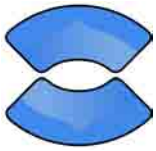
TV/VIDEO OR SD/HD INPUT BUTTON

Use this button to switch the VCR between its TV mode and its VCR mode (see your VCR user's manual for information).

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

POWER BUTTON

Press the blank POWER button to turn the VCR on or off. Press the TV POWER button to turn the TV on or off.



UP/DOWN ARROW BUTTONS

Use these buttons to change channels on the VCR.

Note: If you are using the remote control in Limited Mode, the TV will not change channels.

VIEW TV BUTTON

For VCR/DVD combinations only: Press the VIEW TV button to switch between VCR and DVD functions.

VCR BUTTONS

Press the PLAY button to play a videotape or DVD.

Press the STOP button to stop playing or recording on a videotape. Press the STOP button to stop playing a DVD.

Press the PAUSE button to pause a videotape or DVD. Press this button or the PLAY button to play the tape or DVD.

Press the FWD (“forward”) button to forward a videotape or DVD.

Press the BACK button to rewind a videotape or reverse a DVD.

Press the RECORD button to record on a videotape.

CONTROLLING A TUNER OR AMPLIFIER

Only the buttons described here control a tuner or amplifier. Some of the buttons described here may not control your tuner or amplifier. See the device user’s manual for information.

AUX MODE BUTTON

You must first set up the remote to control the device. See *Setting Up to Control Other Devices* on page 8. Then 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.

POWER BUTTON

Press the blank POWER button to turn the tuner or amplifier on or off. Press the TV POWER button to turn the TV on or off.

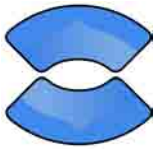
MUTE BUTTON

Press this button to turn on or off the sound.
Note: Program the remote to control the device's volume by following the instructions on page 11.

VOLUME BUTTON

Press this button to raise (+) or lower (-) the sound volume.

Note: Program the remote to control the device's volume by following the instructions on page 11.



UP/DOWN ARROW BUTTONS

Use these buttons to change channels on the tuner or amplifier.

SELECT BUTTON

This button works as the INPUT SELECT button for the tuner or amplifier.

DEVICE CODES

These tables contain the manufacturer codes for programming the remote to control your TV, a 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: Press 0 before entering the TV code.

TV	Codes
A Mark	670
Action	662
Admiral	514, 521, 605, 668, 669, 675
Aiko	727
Aiwa	751
Akai	570, 573, 659, 660,
A-Mark	620
Amtron	657
Anam National	509, 541, 620, 651, 657, 661, 663, 698
AOC	505, 506, 519, 520, 573, 620, 627, 652, 653, 654, 659, 664, 665, 670, 672
Apex	743, 744, 745
Archer	620
Audiovox	620, 657, 662, 672
Bell & Howell	590, 669, 675
Broksonic	752, 659, 661, 748
Capehart	519, 627
Citizen	506, 516, 523, 524, 525, 526, 590, 652, 654, 657, 658, 680, 727
Classic	659

TV	Codes
Colortyme	573, 627, 652, 654, 660, 667, 668, 671, 674, 679, 681
Contec/Cony	541, 655, 657, 661, 662, 726
Craig	536, 541, 657, 661, 662, 666, 667, 694
Crown	526, 536, 657, 666, 670
Curtis Mathes	506, 516, 526, 573, 590, 641, 645, 650, 652, 654, 658, 659, 660, 664, 665, 667, 668, 670, 674, 680, 703, 708
Daewoo	505, 524, 526, 529, 530, 531, 573, 652, 653, 654, 658, 659, 663, 664, 665, 670, 672, 674, 684, 698, 719, 727
Daytron	526, 627, 652, 654, 658, 665, 670, 672
Dimensia	645, 650
DISH Network	742
Dixi	566, 620
Dumont	501, 627, 652
Echostar	722
Electrohome	526, 573, 651, 652, 654, 656, 659, 660, 665, 670, 709, 728

TV	Codes
Emerson	526, 534, 535, 536, 537, 538, 539, 541, 573, 590, 627, 636, 642, 648, 652, 654, 655, 657, 658, 659, 660, 661, 662, 665, 666, 667, 669, 670, 677, 679, 682, 692, 696, 699, 720
Envision	506, 573, 652, 654, 660, 664
Fisher	542, 590, 683
Fujitsu	534, 682, 694
Funai	534, 541, 657, 661, 662, 677, 682, 694
GE	508, 509, 543, 544, 630, 645, 646, 650, 651, 652, 654, 659, 661, 663, 665, 667, 668, 670, 673, 676, 681, 690, 691, 698, 701, 715, 716, 725, 728, 742
Goldstar	505, 523, 526, 545, 546, 566, 573, 652, 653, 654, 655, 656, 658, 659, 660, 664, 665, 670, 671, 678, 693, 730, 747
Gradiente	660, 671
Granada	627, 670, 671
Grundig	670, 673
Hallmark	627, 652, 654, 659
Harmon/Kardon	561, 659
Hinari	534
Hitachi	523, 526, 548, 549, 553, 554, 555, 585, 597, 626, 636, 638, 643, 648, 652, 654, 655, 665, 668, 669, 670, 672, 673, 702, 718, 726
Infinity	566, 671
JBL	566, 671

TV	Codes
JC Penney	505, 506, 516, 525, 526, 543, 546, 631, 645, 646, 650, 652, 653, 654, 658, 659, 664, 667, 668, 670, 673, 676, 678, 680, 690, 691, 701, 725, 726, 728, 730
Jensen	556, 573, 652, 654, 660
JVC	508, 557, 559, 642, 649, 655, 667, 673, 676, 726, 735, 736, 737
Kawasho	548, 561, 573, 652, 654, 664
Kenwood	506, 573, 652, 654, 656, 659, 660, 664, 679, 681
Kloss Nova-beam	657, 663, 698, 723, 724
Konka	753
KTV	526, 539, 541, 573, 657, 658, 661, 662, 664, 665, 670, 696
Lloyds	627, 679
Loewe	566
Logik	675
Luxman	523, 652, 654
LXI	563, 566, 590, 595, 667, 631, 635, 645, 646, 650, 654, 659, 668, 678, 683, 691, 701, 725
Magnasonic	573, 659, 660, 669, 672, 677
Magnavox	506, 520, 525, 536, 566, 567, 568, 573, 610, 652, 654, 656, 659, 660, 664, 665, 666, 669, 671, 673, 674, 677, 723, 724, 729
Majestic	675
Marantz	506, 566, 573, 652, 654, 660, 664, 665, 671, 678, 681

TV	Codes
Megatron	627, 654
Memorex	590, 627, 653, 654, 659, 675, 678, 720
MGA	504, 505, 506, 542, 571, 573, 627, 652, 653, 654, 656, 660, 728
Mitsubishi	504, 505, 542, 570, 571, 572, 573, 597, 623, 627, 652, 653, 654, 656, 659, 660, 664, 665, 670, 671, 705, 728
Montgomery Ward	675
Motorola	521, 605, 651
MTC	505, 506, 516, 523, 573, 627, 652, 653, 654, 659, 664, 667, 672, 680
Multitech	657
NAD	502, 617, 627, 631, 635, 637, 654
National	509
NEC	505, 506, 507, 517, 523, 573, 627, 651, 652, 653, 654, 660, 664, 665, 679, 681, 731, 732
Nikkai	612
Nikko	654, 672, 727
Onwa	541, 657, 661
Optimus	637
Optonica	521, 605, 607
Orion	694
Osaki	612
Panasonic	508, 509, 510, 512, 566, 644, 651, 662, 663, 668, 672, 673, 676, 685, 689, 698, 700, 716, 234, 247

TV	Codes
Philco	505, 506, 525, 536, 568, 573, 610, 651, 652, 653, 654, 655, 656, 659, 660, 664, 665, 666, 669, 671, 672, 674, 677, 723, 724, 729
Philips	525, 566, 651, 652, 655, 656, 671, 690, 723, 724, 729
Pioneer	502, 548, 576, 636, 637, 648, 652, 654, 663, 665, 681, 708
Portland	505, 526, 573, 652, 654, 658, 659, 664, 665, 670, 727
Price Club	680
Prism	676
Proscan	645, 646, 650, 668, 691, 725, 742
Proton	513, 519, 526, 536, 585, 627, 652, 654, 655, 659, 660, 665, 666, 668, 670, 678
Quasar	508, 509, 651, 663, 673, 676, 698, 700, 747
Radio Shack/ Realistic	526, 541, 590, 607, 612, 645, 650, 652, 654, 655, 657, 658, 661, 662, 663, 668, 670, 683, 698, 730
RCA	503, 505, 548, 586, 630, 633, 634, 636, 641, 645, 646, 648, 650, 651, 652, 653, 654, 656, 661, 663, 665, 667, 668, 670, 681, 691, 698, 701, 708, 715, 716, 725, 742, 749
Realistic	590, 645
Runco	501
Sampo	506, 519, 652, 654, 658, 663, 664, 665, 698, 730, 746

TV	Codes
Samsung	505, 506, 516, 523, 526, 566, 573, 612, 627, 647, 652, 653, 654, 655, 656, 658, 659, 664, 665, 667, 669, 670, 679, 680, 704, 717, 730, 738
Sansui	754
Sanyo	542, 590, 652, 683
SBR	566
Schneider	566
Scott	526, 534, 537, 541, 600, 652, 654, 655, 657, 661, 662, 665, 670, 677, 682, 696, 701
Sears	523, 534, 542, 563, 590, 595, 601, 604, 617, 627, 631, 635, 645, 646, 650, 652, 654, 656, 659, 661, 668, 670, 682, 683, 688, 691, 703, 725, 726
Sharp	521, 526, 585, 605, 607, 628, 629, 652, 654, 655, 658, 669, 670, 674, 679, 739, 740, 741
Signature	675
Solavox	612
Sony	500, 578, 640, 670, 690
Soundesign	525, 536, 541, 627, 652, 654, 657, 659, 661, 665, 666, 682
Starlite	657
Supra	523
Sylvania	506, 525, 536, 566, 568, 569, 573, 600, 610, 652, 654, 656, 659, 660, 664, 665, 666, 671, 672, 674, 677, 723, 724, 729, 733
Symphonic	632, 657, 662, 677, 692, 694

TV	Codes
Tandy	521, 605
Tatung	509, 651, 663, 698
Technics	508, 673, 676
Techwood	523, 573, 652, 654, 660, 676
Teknika	504, 505, 512, 516, 523, 524, 525, 526, 534, 536, 541, 573, 644, 652, 653, 654, 655, 657, 658, 661, 662, 664, 665, 666, 670, 672, 675, 680, 681, 682, 685, 726, 727
Telefunken	679
Toshiba	516, 590, 617, 631, 635, 667, 678, 680, 683, 688, 750
Totevision	526, 658, 668
Ultra	672
Universal	543, 690
Vector, Research	506
Video Concepts	570, 661
Wards	536, 573, 607, 645, 650, 652, 653, 654, 656, 659, 664, 665, 666, 667, 668, 669, 674, 675, 677, 678, 682, 690, 715, 723, 724, 729
White, Westinghouse	659, 664, 670, 672, 674
Yamaha	505, 506, 573, 652, 653, 654, 656, 664, 666, 672, 679

VCR CODES

Programming in AUX mode: Press 1 before entering the VCR code.

VCR	CODES
Aiwa	588, 622, 623
Akai	513, 514, 515, 516, 517, 518, 520, 568, 682
Alba	546
Amstrad	588
ASA	556
Audiovox	676
Bell & Howell	581
Broksonic	559, 748
Bush	589
Calix	676
Canon	554, 678, 679
Capehart	546
CCE	681
Citizen	534, 591, 592, 594, 675, 676, 677, 684
Colortyme	592,
Craig	591, 658, 675, 676, 681, 685, 687, 688
Curtis Mathes	554, 592, 594, 605, 607, 675, 677, 678, 679, 683, 684
Daewoo	506, 534, 546, 547, 559, 588, 684
Daytron	546
Denon	686
Dimensia	607
Dumont	549
Electrohome	512, 676, 687
Emerson	505, 506, 508, 509, 511, 512, 534, 559, 568, 588, 590, 618, 676, 678, 684, 687
Finlandia	549
Finlux	549, 556, 588
Fisher	548, 549, 581, 584, 588, 608, 610, 684, 688
Fuji	678
Funai	588
Garrard	588
GE	550, 551, 552, 554, 572, 591, 605, 607, 675, 678, 679
Go Video	557, 558, 620, 685
Goldstar	592, 594, 676, 687, 747
Goodmans	585, 589
Gradiente	588, 687
Granada	549, 581
Grundig	556
Harmon/Kardon	568, 592
Harwood	681
Hinari	589
Hitachi	536, 538, 539, 540, 588, 595, 597, 680, 682, 686
ITT	518
JC Penney	554, 581, 591, 592, 594, 595, 600, 674, 675, 676, 678, 679, 680, 681, 685, 686, 687
Jensen	595, 680, 682
JVC	561, 562, 563, 581, 592, 594, 600, 674, 682, 686
Kenwood	562, 581, 592, 594, 600, 674, 677, 682, 683
KLH	681
Kodak	676, 678
Lloyds	683, 688
Logik	589, 681, 685
Luxor	518

VCR	CODES
LXI	676
Magnasonic	685, 687
Magnavox	527, 533, 554, 556, 678, 679, 684, 685
Marantz	554, 556, 581, 585, 592, 594, 600, 602, 674, 677, 678, 683
Matsushita	678
Memorex	507, 533, 549, 554, 566, 581, 585, 588, 608, 675, 676, 678, 686, 687, 688
MGA	512, 567, 568
Minolta	595, 680, 686
Mitsubishi	512, 562, 567, 568, 570, 571, 595, 680, 687
Motorola	678
MTC	544, 588, 675, 685
Multitech	579, 588, 675, 677, 681
NAD	573
NEC	562, 581, 592, 594, 600, 602, 674, 677, 682, 683
Nikko	676
Noblex	675
Olympus	678
Optimus	676, 687
Optonica	585
Orion	506, 684, 687
Panasonic	523, 554, 598, 614, 628, 633, 678, 679, 684, 685, 688, 747
Pentax	592, 595, 677, 680, 683, 686
Pentex Research	594
Perdio	588
Philco	554, 678, 679, 686

VCR	CODES
Philips	554, 556, 585, 678, 684
Pioneer	562, 573, 574, 575, 576, 600, 674, 680,
Portland	546, 677
Proscan	605, 607,
Proton	685
Quasar	554, 678, 679, 747,
Radio Shack	512, 607, 608, 610, 687
Radio Shack/ Realistic	581, 584, 588, 608, 675, 676, 678, 679
Radix	676
RCA	518, 525, 527, 528, 591, 595, 605, 607, 615, 631, 649, 675, 678, 680, 686
Realistic	534, 549, 554, 581, 584, 585, 588, 608, 675, 678, 679, 687, 688
Ricoh	502
Runco	533
Saisho	506
Salora	567, 581
Samsung	515, 517, 534, 579, 591, 675
Sansui	544, 562, 600, 674, 682, 685
Sanyo	549, 581, 582, 583, 608, 675, 688
SBR	556
Schneider	589
Scott	508, 534, 559, 590, 684, 687
Sears	548, 549, 581, 584, 595, 608, 610, 676, 678, 680, 683, 684, 686, 687, 688
Sentra	546
Sharp	512, 585, 607, 625
Shintom	589, 595, 681, 685

VCR	CODES
Singer	678, 681, 685
Sony	500, 501, 502, 504
STS	678
Sylvania	554, 556, 567, 588, 678, 679
Symphonic	588, 594, 683, 688
Tandy	581, 588
Tashiko	588, 676
Tatung	594, 682,
Teac	588, 594, 682
Technics	554, 633, 678,
Teknika	554, 588, 676, 678, 687
Toshiba	534, 535, 567, 584, 590, 680, 684, 688
Totevision	591, 675, 676, 687
Unitech	675,
Vector Research	534, 592, 600, 674, 677, 683
Video Concepts	534, 568, 592, 600, 674, 677, 683,
Wards	534, 588, 595, 608, 675, 676, 678, 680, 681, 684, 687, 688
XR-1000	588, 678, 681
Yamaha	581, 592, 594, 600, 674, 682, 683
Zenith	500, 501, 533, 747

TV/VCR COMBO CODES

Programming for combination devices: Program the remote control in TV mode and then in VCR mode.

TV/VCR	TV Codes	VCR Codes
Broksonic	748	748
Goldstar	747	747
Panasonic	747	747
Quasar	747	747
Zenith	747	747

DVD PLAYER CODES

Programming in AUX mode: Press 1 before entering the DVD code.

DVD Players	Codes
Aiwa	634, 694, 751
Alpine	653
Apex	654, 655, 743, 744
Broksonic	656, 752
Clarion,	696
Classic	695
Daewoo	657
Denon	697, 698, 699, 700
Emerson	658, 701
Fisher	659
Funai	658
GE	702, 703
Go Video	692, 693
GPX	704
Hitachi	632, 635, 660, 705, 706, 707
JVC	636, 689, 708, 711
Konka	637, 638, 753
Koss	745
Magnavox	626, 661
Memorex	709
Mintek	710
Mitsubishi	629
NAD	701
Norcent	762

DVD Players	Codes
Onkyo	713
Oritron	723
Panasonic	639, 662, 663, 714, 715, 716, 717, 734
Philips	640, 641
Pioneer	665, 718, 719
Proscan	720
Qwestar	721, 723
RCA	627, 650, 666, 690, 742, 749
Sampo	724
Samsung	651, 652, 667, 668, 691, 740, 741
Sansui	725, 754
Sanyo	643, 726
Sharp	669, 727, 746
Sherwood	728
Sony	617, 644, 645, 670, 671, 729, 730, 731
Sylvania	658
Teac	732
Technics	733
Techwood	664
Toshiba	616, 646, 647, 672, 735, 736, 750,
Yamaha	737, 738, 739
Zenith	648, 673

TUNER/AMPLIFIER CODES

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

Tuner/ Amplifier	Codes
Aiwa	636, 641, 656, 687, 718, 720, 724, 775, 726
Carver	653
Citizen	709
Curtis Mathes	734
Denon	647, 674
Fisher	653, 741
GE	711
Goldstar	677, 690
Harmon/Kardon	640, 672, 751
Hitachi	717, 754
JBL	640
JVC	637, 683, 703, 725
Kenwood	649, 676, 691, 726, 728, 745
Luxman	752
Magnavox	654, 705, 740
Marantz	651, 740, 742, 743
NAD	739
Nakamichi	671, 748, 750
NEC	716, 739
Onkyo	642, 660, 662, 678
Optimus	648, 664, 734, 744, 749
Panasonic	643, 644, 652, 742, 746
Pioneer	658, 667, 668, 679, 702, 734
Proton	654, 705
Quasar	652, 742, 746
Radio Shack	744
RCA	635, 638, 704, 727
Sansui	753
Sanyo	741
Sharp	712, 713, 714, 715, 749
Sherwood	646, 670, 736, 738, 744
Sony	639, 645, 650, 687, 728, 729, 730

Tuner/ Amplifier	Codes
Teac	684, 737
Technics	643, 644, 652, 742, 746
Toshiba	710
Yamaha	663, 730, 731, 732, 733, 745, 747

DVD/VCR Combo Codes

DVD/VCR	Codes
Go Video	692,693
JVC	689
RCA	690
Samsung	667,691

TV/DVD Combo Codes

Programming for combination devices: Program the remote control in TV mode and then in VCR (or AUX - press 1 before entering the DVD code) mode.

TV/DVD	TV Codes	DVD Codes
Aiwa	751	751
Broksonic	752	752
Konka	753	753
Panasonic	734	734
RCA	749	749
Sansui	754	754
Toshiba	750	750

TROUBLESHOOTING

What's Happening	What's Wrong	What You Can Do
While you do a remote procedure, the remote control stops working.	• If you don't press any button for 20 seconds in a programming sequence, the remote stops working. • If you hold a button longer than two minutes, the remote control stops transmitting to save battery life.	Start over again.
When you press the remote control Power button to turn the receiver on, the receiver's front panel Power light doesn't turn on.	• Maybe the batteries are weak or dead. • Maybe you didn't plug the receiver power cord into a power outlet, or maybe there's a problem with the power. • Maybe the remote isn't in SAT mode. • Maybe the remote and the receiver have different addresses.	• Replace the remote batteries with fresh ones. • Make sure the receiver power cord is plugged into a power outlet. • Press SAT to set the remote to SAT mode to control the receiver. • Make sure the remote and the receiver have the same address. See *Setting Up to Control the Receiver* on page 4.
The receiver changes channels and displays menus when I am not using the remote control.	• UHF signals from a neighbor's remote may be controlling your receiver.	• Change your remote and receiver address (see *Setting Up to Control the Receiver* on page 4).

What's Happening	What's Wrong	What You Can Do
When you press a button on the remote control, the device doesn't do what you expect.	• Maybe you're trying to control a device and you're not pointing the remote control right at it.	• Remember, the remote control uses IR signals to control all devices except for the receiver (when using the UHF antenna). IR signals travel *only* 40 feet or less, and *can't* go through walls or other solid objects. You *must* point the remote control right at the device, with *no* objects to block the signal path.
	• Maybe the remote control is missing batteries, maybe you put the batteries in the remote the wrong way, or maybe the batteries are weak or dead.	• If the batteries are missing or dead, put fresh AAA-size batteries in. If the remote has fresh batteries, check whether you put them in the right way. If you didn't, take them out and put them in the right way.
	• Maybe you didn't set the remote to the mode for the device you want to control.	• Press the correct mode button to set the remote to the mode for the device you want to control.
	• Maybe you didn't set up the remote to control the device.	• Make sure you set up the remote to control all the devices you want to use. See *Remote Control Setup* on page 4.
	• UHF signals from a neighbor's remote may be controlling your receiver.	• Change your remote and receiver address (see *Setting Up to Control the Receiver* on page 4).
When you press the remote control Mute or Volume button, nothing happens.	• Maybe you have not set up the remote control.	• See *Setting Up to Control Other Devices* on page 8.
	• Maybe you're trying to control TV volume but you set up the remote to control a tuner or amplifier in AUX mode.	• Set up the remote to control *either* TV volume *or* tuner/amplifier volume, whichever you want.
	• Maybe you're trying to control tuner or amplifier volume but you set up the remote to control a TV in AUX mode.	

What's Happening	What's Wrong	What You Can Do
Your UHF Pro remote control does not work well from far away	• You may be experiencing interference from objects near your receiver antenna.	• Make sure the UHF antenna is connected to the receiver and not touching anything else. • Vary the tilt angle of the receiver's UHF antenna. Locate the UHF antenna tip away from other electronics equipment or metal surfaces, even if separated by wooden shelving. • Move the receiver to different locations. For best results, place the receiver as high as possible, above all other equipment in your entertainment center. • Place the UHF antenna outside the entertainment center by using a coaxial cable to connect it to the receiver. • Move any nearby off-air antenna away from the UHF remote antenna. Do not place an off-air antenna on your receiver.

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 of the DISH Network remote control ("you," "your") and is *limited* to the purchase price of the remote control. EchoStar Technologies Corporation and its affiliated companies ("we," "our," "us") warrant this remote control against defects in materials or workmanship as follows.

For one year from the original date of purchase, if we find the remote control is defective subject to the limits of this warranty, we will replace the remote 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 device; 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 (with the exception of opening the battery cover).

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.

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 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, 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.

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IF YOU NEED HELP

1. Review this *User Guide*.
2. See *Troubleshooting* on page 38.
3. 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 remote control, 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 remote control, including whether it is covered under the warranty.
      - Replace any remote we find is defective with a new or refurbished remote, if the defective remote is covered under the warranty. We will ship the replacement remote at our expense.
      - If a defective remote is not covered under the warranty, we will tell you. We may assess you a flat rate charge for a replacement remote, including shipping and insurance.

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Notes

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