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The Parts of the System

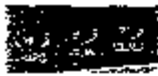
THE RECEIVER

THE RECEIVER FRONT PANEL



CONTROL BUTTONS

The front panel buttons give you some control over the receiver. These buttons work the same way as the matching remote control buttons, described in *Chapter 3 - Using the Satellite System* and *Chapter 4 - Using the DVD Player*.



MODE INDICATORS

A green light over the SAT label lights up when the receiver is turned

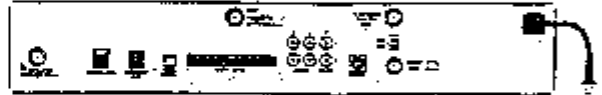
- ON and is in satellite receiver mode, and goes out when the receiver is turned OFF. A red light over the DISC label lights up when the receiver is in DVD mode and changes to orange when in audio CD mode.



FRONT CARD SLOT

The card slot behind the left access door requires a special e-commerce card. *Do not* insert the DISH Network smart card in to this slot. *You do not need a card inserted in this card slot.*

THE RECEIVER BACK PANEL



The back panel of the receiver provides the connections that you use to wire the receiver to all the other electronic devices that you use. It also provides the receiver power cord and telephone jack. Depending on the wiring setup that you use, you may not use some of these connections, but they are provided to support any desired setup. The DVD Player does *not* require any special wiring. See *Chapter 3 - Reference*, or the *Installation Instructions* for more information.

SMART CARD SLOT



The DISH Network Smart Card should already be inserted in the receiver back panel slot.

THE REMOTE CONTROL

For information on using the remote control, see *Chapter 3 - Using the Satellite System* and *Chapter 4 - Using the DVD Player*.

Note: If you lose or damage the remote control you will *not* be fully able to control the receiver. If this happens, call the Service Center at 1-800-333-DISH (3474) to order a replacement. You will be charged the sale price of the remote control, plus shipping and handling.

UHF remote controls (with the UHF symbol on the front side) can operate the receiver through the walls of your building. To use such a remote,

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you must attach a UHF antenna to the receiver back panel UHF Remote Antenna connection.

IR remote controls (with "INFRARED REMOTE" on the back side) must be pointed directly at the receiver, with no objects blocking the line of sight. You can use such a remote only within 40 feet of the receiver.

INSTALLING BATTERIES IN THE REMOTE

The remote control is shipped with AAA batteries, packaged separately. When you replace old batteries, you should replace all of the batteries. Use batteries of the same grade, for example, alkaline or carbon zinc, and do not mix batteries of different grades. Alkaline batteries provide longer battery life.



1. Press down on the slot in the battery cover (on the back of the remote control) and slide the cover off.
2. Insert the new batteries, making sure to match the plus ("+") ends with the plus markings on the battery case.
3. Replace the battery cover by sliding the cover back up into place.

THE REMOTE CONTROL BUTTONS



MODE BUTTONS

The SAT (satellite receiver), TV, VCR, and AUX (auxiliary) mode buttons indicate which device the remote will control. To change modes, press the appropriate button. The corresponding button background light turns on. For DVD

operation, make sure the remote is in the SAT mode.

TV/VIDEO TV/VIDEO



If you connect the receiver using only the RF or VHF connections, use this button, in SAT mode, to switch between the receiver and an alternate video source such as cable or broadcast TV antenna input. It will switch to the device routed into the TV Antenna Cable In connection.

In TV mode, this button will switch between video inputs on some TVs (check your television owner's manual for more details).

MENU MENU



In SAT mode, press the Menu button to open the Main Menu. When using the DVD Player, this button will bring up the DVD disc menu.

POWER POWER



In SAT mode, press the Power button to turn the receiver ON or OFF. The green Power light over the SAT label on the receiver front panel lights up to indicate the receiver is ON. For each mode, the Power button will turn that device ON and OFF, if the remote has been programmed for that device. See *Programming the Digital Remote to Control Other Devices* on page 3-7. Note: If you program the TV mode to control a television and do not program the AUX mode, the AUX mode button will turn the television ON and OFF. This allows you to turn the television ON or OFF without leaving SAT mode.



PAGE UP AND PAGE DOWN

In SAT mode, press the Page Up or Page Down arrow button to scan, by page, through the listing of channels when you have open the Program Guide or, if the receiver supports Themes, the Theme Categories menu.

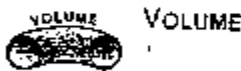
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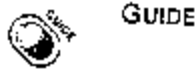
In VCR mode, these buttons scan up or down through the television channels.



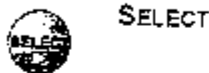
In any mode, press the **Mute** button to temporarily turn off the sound. Press it again to restore the sound. The **Mute** button works only if you have programmed the remote. See *Programming the Digital Remote to Control Other Devices* on page 3-7.



In any mode, press the plus (+) side of the **Volume** button to increase the sound volume. Press the minus (-) side of the **Volume** button to reduce the sound volume. This button works only if you have programmed the remote. See *Programming the Digital Remote to Control Other Devices* on page 3-7.



In **SAT** mode, press the **Guide** button to open the **Program Guide**. When the **Program Guide** is open, press the **Guide** button to switch among **Favorites Lists**.



In **SAT** mode, press the **Select** button to switch to **DVD** mode or press the **Select** button to select the highlighted option in a menu and perform the function.

In **VCR** mode, this button functions as the **Play** button. Press this button to play the video tape.

In **TV** or **AUX** mode, this button functions as an **Enter** button.

Press the **Select** button to go to **DVD** mode

or to select an option from a **DVD** disc menu



UP/DOWN/LEFT/RIGHT

In **SAT** mode:

- When using a menu, press these buttons to move the highlight to the desired option.
- When watching a program, press the **Right** button to open the **Browse Banner** or the **Up** or **Down** button to change channels.
- When the **Browse Banner** is open, press the **Up** or **Down** button to view the **Browse Banner** for the next channel.
- When a menu offers a list of choices, press the **Up** or **Down** button to bring more choices into view.
- When the **Program Guide** is open, press the **Up** or **Down** button to move the highlight through the channels.
- When a number must be entered in a menu, press the **Up** or **Down** button to increase or decrease the highlighted number.
- When the **Browse Banner** or **Program Guide** is open, press the **Left** or **Right** button to display programs in different time periods (but not a time period earlier than the present).
- If the receiver supports **Theme Categories**, when watching a program press the **Left** button to open the **Theme Categories** menu.

In **VCR** mode:

- The **Up** button functions as the **Stop** button. Press this button to stop the video tape.
- The **Down** button functions as the **Pause** button. Press this button to temporarily stop the video tape during recording or play. Press this button or the **Select** button (**Play**) to restart the tape.
- The **Left** button functions as the **Rewind** button. Press this button to rewind the video tape. During tape play, press this button to rapidly view the video tape as a reverse

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visual search.

- The **Right** button functions as the **Fast Forward** button. Press this button to rapidly advance the video tape. During tape play, press this button to rapidly view the video as a forward visual search.

In **TV** or **AUX** mode:

Use the **Up** or **Down** button to change channels up or down.

In **DVD** mode:

- When using a menu, press these buttons to move the highlight to the desired option.



RECALL

In **SAT**, **TV**, or **AUX** mode (for cable TV boxes only), press the **Recall** button to go back to the last channel you were watching. Press repeatedly to alternate between the last two channels that you viewed.

Note: You must first program the remote to control the device. See *Programming the Digital Remote to Control Other Devices* on page 3-7.



INFORMATION

In **SAT** mode:

- Press this button for more information when the **Program Guide**, **Browse Banner**, or **Theme Categories** menu is open, or you are watching a program.
- When a menu is open that includes a **Help** option, press this button to see help information for that menu.
- If the receiver supports **Theme Categories**, highlight a program in a **Theme Categories** list and then press this button for more information on that program.
- When the receiver is **OFF**, press this button to display the **Important System Information** menu.



VIEW

In **SAT** mode:

- Press this button to return to watching a program.
- If already watching a program, press this button to briefly display the **Program Banner**.
- From any menu, press this button to cancel the procedure and immediately go back to watching the program.

In **DVD** mode:

Press this button to return to Satellite TV viewing.



CANCEL

In **Sat** mode:

Press the **Cancel** button to cancel the current procedure and to return to the previous menu or to watching a program.

In **DVD** mode:

If the **View** banner is on, press the **Cancel** button to return to watching a program.



SYSTEM INFORMATION

In **SAT** mode, press this button to display the **Important System Information** menu.



RECORD

In **VCR** mode, press this button to start recording on the **VCR**.

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NUMBER PAD

In any mode:

- When watching a program or with the Program Guide open, enter the 3-digit channel number to change immediately to that channel.
- Use the number pad buttons to enter menu option numbers.
- Use these buttons to enter a number such as a ZIP code or password in a menu.
- When the Program Guide is open, enter a number of hours using the number pad buttons, and then press the Left or Right arrow to display programs in the time period offset by that number of hours. The receiver cannot display a time period earlier than the present.

In DVD mode:

- The 2 button functions as the Title button. Press this button to cycle through the available DVD disc titles.
- The 4 button functions as the Audio button. Press this button to cycle through the available DVD audio options.
- The 5 button functions as the Angle button. Press this button to cycle through the available angles on a DVD disc.
- The 5 button functions as the Subtitle button. Press this button to cycle through the available DVD subtitles.
- The 8 button functions as the Chapter button. Press this button to skip ahead one chapter on the DVD disc.



STAR (*) / SKIP BACK

Note: When you are in the Disc menu, these buttons function as standard number buttons.

In AUX mode:

Use this button to program the remote control.

In DVD mode:

Press this button when midway through a chapter/track, and play will return to the start of that chapter/track. Press it again to skip back to a previous chapter/track.



POUND (#) / SKIP AHEAD

In SAT mode:

Use this button to set and to check the remote control address.

In DVD mode:

Press this button to skip ahead to the next chapter/track.



PLAY

In DVD mode:

Press this button to begin playback of a disc.



STOP

In DVD mode:

Press this button to stop playback of a disc.



PAUSE

In DVD mode:

- Press this button to freeze/still a picture or pause a chapter/track.
- Press this button repeatedly to advance still pictures frame by frame.
- Press Forward or Reverse when in Pause.

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mode for Slow Forward or Slow Reverse.



FAST FORWARD

In DVD mode:

- Press this button to fast forward search through a disc.

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- Press the button repeatedly and the Re Step 4.



REWIND






In DVD mode:

- Press this button to rewind search through a disc.
- Press the button repeatedly and the rewind speed will increase to Step 4, the maximum.

CHANGING THE DIGITAL REMOTE ADDRESS

Do not change the address of the remote unless absolutely necessary.

Note: If you start this procedure and at any time do not press a button within 20 seconds, the remote will end the procedure automatically. Simply start over again.

1. Press the **Menu** button. 
2. Select the **System Setup** option. 
3. Select the **Installation** option. 
4. Select the **System Info** option. This displays the **Important System Information** menu. 
Note: the **Remote Address** shown on this menu.
5. Press and hold the **SAT** mode button about three seconds, until all the mode button backlights come on, then release the **SAT** button.
6. Use the number pad buttons to enter a number from 1 to 15. The **SAT** mode button backlight will blink off after you enter each digit, and then come on again.
7. Press the **Pound (#)** button. If the address you entered is valid for the remote control, the **SAT** mode button backlight flashes three times. 
8. Press the **Record** button. The number in the **Remote Address** field on the **Important System Information** menu should match the one you entered.
9. To verify the code, press and hold the **SAT** mode button for three seconds. Then, press the **Pound**

(#) button twice. The **SAT** mode button backlight flashes the same number of times as the address.

10. Select the **Cancel** option repeatedly to exit the menus.

INSTALLING AN ATTENUATOR (UHF REMOTE ONLY)

Other UHF signals may block signals sent from a UHF remote control to the receiver. To prevent such interference, you can install a 10 dB attenuator. This will reduce the sensitivity of the receiver to other UHF signals but also substantially reduce the operating range of the remote control.

1. Remove the UHF antenna from the UHF Remote Antenna connection on the receiver back panel.
2. Attach a 10 dB attenuator to the UHF Remote Antenna connection.
3. Attach the UHF antenna to the attenuator.

PROGRAMMING THE DIGITAL REMOTE TO CONTROL OTHER DEVICES

Note: If you want to program the **AUX** mode, program it *before* you program the **TV** mode. If you already have programmed the **TV** mode, do the following: (a) write down the **TV** code, (b) reprogram the **TV** mode using code 222, (c) program the **AUX** mode, and (d) reprogram the **TV** mode using the code that you wrote down.

1. Turn **ON** the device you want the remote to control. You must turn **ON** the device using its buttons or the remote control that came with it.
2. Find the brand name of the device in the device code tables starting on page 5-13. If the brand is not listed, see the *Doing the Remote Control Device Code Scan* procedure on page 3-8.
3. Press and hold the mode button for the device that you want the remote to control, for about three seconds. When all the other mode button backlights come on, release the mode button.
4. Use the number pad buttons to enter the code for the device. If you are programming in the **AUX** mode, you must enter a 4-digit code. The first digit is the code for the device, as follows: 0 is for a second TV, 1 is for a second VCR, and 2 is for an amplifier or cable TV box.

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5. Press and release the Pound (#) button. If the code is valid, the mode button backlight blinks three times.
6. Test if the code works for the device by pressing the Power button. If the code works, the device should turn OFF.
7. Turn the device back ON and try some other functions to make sure they work. Occasionally, the Power button may work when other buttons do not. If the code works for other functions, stop here.
8. If the code you entered does not work, repeat steps 3 through 7 using another code from the tables.
9. If you have tried all of the codes listed for the device without success, or if you can not find the device brand name in the tables, use the *Device Code Scan* procedure as follows.

DOING THE REMOTE CONTROL DEVICE CODE SCAN

If a device brand is not listed in the code tables or if the listed codes do not work, you can scan through all the codes, testing each one. The remote may not control some brands or models of devices.

1. Press and hold the mode button for the device that you want the remote to control, for about three seconds. When all the other mode button backlights come on, release the button. It will flash to indicate it is in the address programming format.

For AUX mode only, use the number pad buttons to enter the number of the device. Then, press the Star (*) button. This defines the device for which you are scanning: 0 is for a second TV, 1 is for a second VCR, and 2 is for an amplifier or cable TV box.

2. Press the Power button.
3. Press the Up or Down arrow button to set the remote to the next code. The Down arrow button scans backward, and the Up arrow button scans forward. Press the arrow button repeatedly to continue scanning.

When the correct code is reached, the device turns OFF. If this happens, press the Pound (#) button to store the code in the remote. If the code is valid, the appropriate mode light blinks three times.
4. Press the Power button to turn the device back ON.
5. Try some other remote control buttons to make sure that you have the correct code.

DETERMINING THE REMOTE CONTROL DEVICE CODES

You can find out what device code is currently set for each remote control mode. Do the following:

1. Press and hold the mode button for the device that you want the remote to control, for about three seconds. When all the other mode button backlights come on, release the mode button.
2. Press the Pound (#) button twice. The mode light flashes the number of times to indicate each digit of the current mode, with a pause between the flash sequences. For example, for an AUX code of 0136, the mode light flashes once quickly (for zero), then once, three times, and six times.

Reference Device Codes for Programming the Digital Remote Control

(5)

DEVICE CODES FOR PROGRAMMING THE DIGITAL REMOTE CONTROL

These tables contain the device codes for programming the remote to control other devices. Every attempt has been made to include all device codes. If a device is not listed or the codes do not work, the remote may not control the device. **Note:** For some receivers, use code 222 in the *Programming the Remote to Control Other Devices* procedure in SAT, TV, or VCR mode to program the remote to control the receiver sound volume.

TELEVISIONS

A&A	525, 570, 575
Alba	615
A-Mark	620
Amstrad	535
Asahi	509, 521, 541, 620, 631, 691, 698
AOC	505, 526, 519, 530, 620, 695, 712
Aurifer	620
Audiovox	620
Bauer	611
Baycraft	526
Becksonic	562, 691
Candle	506, 522, 535, 525, 536, 691, 695, 708
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Circuit City	695
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Colortyne	573, 695
Concerto	523
Cantor	527, 535, 541, 591, 691
Craig	521, 536, 527, 691, 695
Crown	526, 536
Curis Mathes	506, 516, 525, 535, 705, 708
CXC	541, 691
Dawson	505, 524, 526, 538, 550, 551, 532, 698, 712, 719
Dayton	526, 695
Dizi	532, 588, 620
Duncan	695
Electrohome	526, 573, 695, 709, 713
Eiko	532
Emerson	526, 527, 528, 533, 534, 535, 526, 537, 538, 539, 540, 541, 573, 622, 691, 692, 695, 696, 699, 720
Evanscan	506, 573, 712
Etron	522
Fisher	542, 590
Formosa	611
Forestar	573, 503
Fujitsu	534, 694
Funai	534, 543, 691, 694
Futabaeca	541, 691, 694
General Electric (GE)	505, 506, 509, 512, 540, 543, 544, 630, 691, 693, 698, 701, 714, 715, 716
Genesca	515
Golostar	505, 523, 526, 545, 546, 575, 588, 695, 695, 712
Gracoda	695, 711
Gradi	695
Grundig	547
Haitmark	695
Hinay	534

Hitachi	523, 526, 548, 549, 550, 551, 572, 583, 554, 555, 585, 597, 626, 702, 713, 718
Infinity	566
JBL	566
JC Penney	505, 505, 506, 514, 535, 526, 531, 542, 596, 701, 712, 714
Jensen	538, 573
JVC	537, 558, 559, 560
Kanashic	543, 551, 712
Kelwood	506, 573, 712
Koss	523, 561, 510, 698
KTV	526, 559, 540, 541, 691, 696, 712
Liebert	695
Lieberton	526
Lohrer	588
Logik	518
Luxman	533
EXI	505, 562, 566, 590, 591, 511, 621, 701
Magnason	533
Magnavox	506, 520, 525, 536, 564, 565, 566, 567, 568, 569, 575, 576, 610, 710, 718
Magnat	506, 566, 573, 588, 712
Mexico	522, 605
Megatron	695
Memorex	518, 532, 590, 695, 720
MGA	504, 505, 506, 591, 575, 695
Mitsubishi	504, 505, 570, 571, 572, 597, 625, 695, 705, 707, 752
MTC	505, 506, 516, 525, 531, 695, 715
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National	509, 521, 697, 598
National Quinnes	697
NEC	503, 508, 507, 517, 523, 575, 627, 712
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Superview	694
SSS	505, 541, 573, 691, 712
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Sylvania	506, 529, 536, 564, 563, 564, 568, 573, 575, 600, 610, 611, 632, 712
Symphonic	632, 692, 694
Tandy	603, 515
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Teknika	504, 505, 516, 518, 527, 523, 524, 525, 526, 524, 526, 541, 614, 615, 691, 712
Telefun	551
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CR	363
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CR	389
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CR	391, 392, 393
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CR	333
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CR	354, 346, 347, 393, 626, 627
CR	346
CR	394, 600
CR	349
CR	388
CR	350, 351, 352, 354, 312, 391, 603
CR	330, 333, 392, 612, 613
CR	383, 389
CR	350, 620
CR	349, 381
CR	365
CR	330, 369
CR	389
CR	336, 337, 338, 339, 340, 341, 353, 388, 396, 397
CR	355
CR	318
CR	330, 334, 380, 391, 394, 600, 601
CR	361, 362, 363, 364, 392, 394, 600, 601
CR	362, 381, 392, 394, 600, 601
CR	338
CR	339
CR	313
CR	337, 333, 354, 356, 368, 611

CR	330, 354, 363, 383, 392, 394, 600, 601, 603
CR	334
CR	333, 349, 354, 366, 381, 383, 388, 608
CR	367, 368, 609
CR	362, 367, 368, 369, 370, 371, 609
CR	344, 380, 388
CR	386, 389, 391
CR	373
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CR	383
CR	306, 307, 635
CR	323, 322, 323, 324, 326, 350, 334, 398, 614, 628
CR	337, 392
CR	385
CR	333, 334, 611
CR	353, 354, 363, 383
CR	333, 362, 373, 374, 375, 376, 600
CR	346, 393
CR	337, 303
CR	333
CR	381
CR	339, 334, 377, 378
CR	607, 608, 609, 610
CR	325, 328, 327, 328, 329, 331, 351, 353, 354, 391, 603, 606, 613, 620, 621
CR	339, 341, 340, 381, 384, 385, 338
CR	302
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CR	367, 381
CR	317, 324, 350, 379, 380, 391
CR	333, 354, 362, 600, 601
CR	349, 381, 382, 383, 399, 608
CR	363
CR	388
CR	308, 339, 390
CR	343, 349, 381, 384, 608, 610
CR	346
CR	383, 607, 609, 625
CR	389
CR	300, 301, 302, 303, 304
CR	333, 333, 354, 356, 367, 388, 611
CR	358, 388, 390
CR	383
CR	383
CR	386, 354, 601
CR	388, 394, 607
CR	353, 354
CR	354, 367, 389
CR	306
CR	334, 335, 367, 390
CR	380, 391
CR	380
CR	330, 600
CR	361, 362, 600
CR	368, 600
CR	391
CR	327, 354, 380, 383, 388, 389, 390, 391, 607, 608, 609
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TUNERS/AMPLIFIERS

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Carver	2633, 2672
Denon	2674
Fisher	2653, 2673
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Goldstar	2677
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Kenwood	2676
Luxman	2681
LGJ	2683
Martini	2631
Medison	2673
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