



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

**WARNING:**

TO REDUCE THE RISK OF ELECTRONIC SHOCK DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

This product must not be exposed to dripping or splashing liquids. Objects filled with liquids, such as a vase, must not be placed on or above the product.

NOTE TO CABLE/TV/SATELLITE DISH INSTALLER:

This reminder is provided to call the cable TV system/satellite dish installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION : FCC PART 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

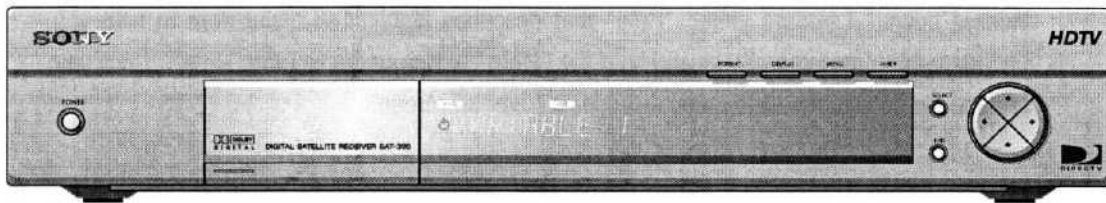
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

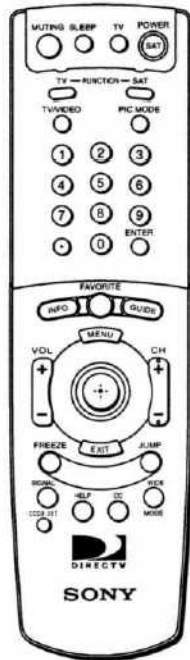
3. SETUP AND CONNECTIONS

3-1. Unpacking

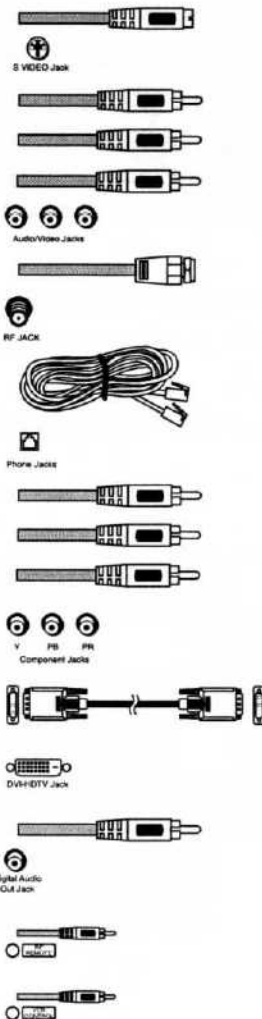
Make sure you have received all these items listed below with the DIRECTV® High-Definition Receiver.



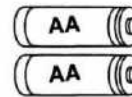
Remote Control



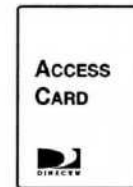
Cables



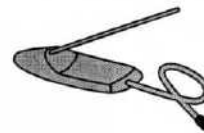
Batteries



Access Card

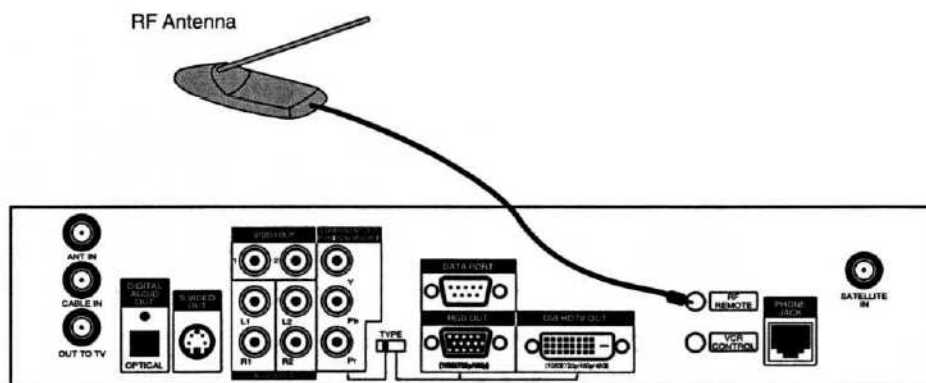


RF Antenna



3. SETUP AND CONNECTIONS

3-8. RF Remote Control Connection



The DIRECTV® High-Definition Receiver uses an optional RF (radio frequency) remote control antenna that allows you to control your receiver from other rooms in your house.

RF Antenna connection

1. Plug the RF remote control cable into the RF REMOTE connector on the DIRECTV Receiver rear panel.

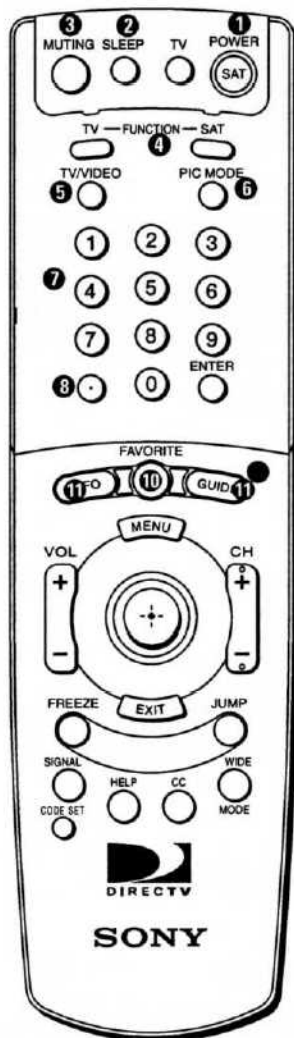
2. Extend the cable and place the antenna in the desired location

To achieve the best operating range from the remote control, position the antenna as high and as far away from metal objects as possible.

(Note : Do not place the RF antenna directly on top of the DIRECTV HD Receiver or any other metal object. For best results, place the RF antenna at the visible location.)

4. FRONT PANEL AND REMOTE CONTROL

4-2. Using the Remote Control



1 POWER buttons

Turn on and off the DIRECTV® High-Definition Receiver and TV. To operate your TV, you may need to first set up the remote control

2 SLEEP button

Sets the TV to turn off automatically after a certain amount of time (if your TV has a compatible Sleep feature). To operate your TV, you may need to first set up the remote control

3 MUTING button

Mutes the TV volume. Press again to restore the volume. To operate your TV, you may need to first set up the remote control

4 FUNCTION buttons

Select the equipment (TV or SAT) that you want to operate. The indicators light up to show which device the remote control is operating. To operate your TV, you may need to first set up the remote control

5 TV/VIDEO button

Switches between the various inputs of your TV. To operate your TV, you may need to first set up the remote control

6 PIC MODE button

Switches between the Picture Mode settings of compatible TVs. To operate your TV, you may need to first set up the remote control

7 0-9 and ENTER buttons

Change channels directly and enter numerical values in on-screen displays.

8 • (dot) button

Use with the 0-9 and ENTER buttons to select subchannels (for example, 2.1, if available).

9 GUIDE button

Opens the Program Guide.

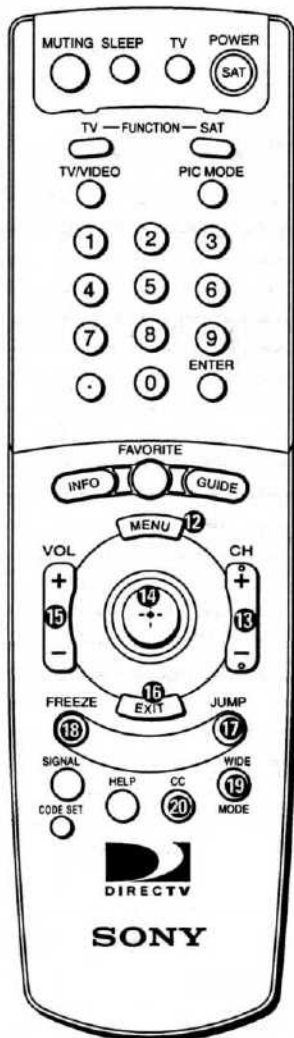
10 FAVORITE button

Opens the Favorite List.

11 INFO button

Opens the program information display for the current program.

4-2. Using the Remote Control



12 MENU button

Opens the main Menu.

13 CH (channel) +/- buttons

Changes channels. When a program guide is open, pressing the CH button pages through the guide.

14 Joystick

Moving the joystick up, down, left and right moves the highlight in on-screen displays. Press the joystick to select the highlighted item.

15 VOL (volume) +/- buttons

Adjust the volume of your TV. To operate your TV, you may need to first set up the remote control

16 EXIT button

Closes on-screen displays.

17 PREV CH button

Changes channels to the previously tuned channel.

18 FREEZE button

Show the current frozen image. Push the FREEZE button again, the image will be enlarged two times.

19 WIDE MODE button

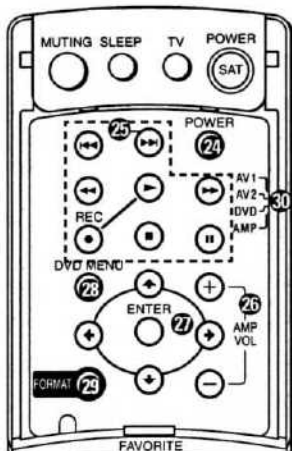
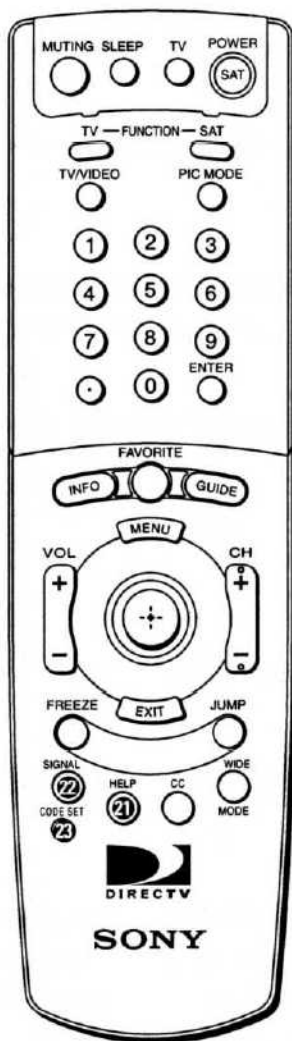
Changes the aspect ratio options of the DIRECTV® High-Definition Receiver. When you view a picture with a wide (16:9) aspect ratio in 480i or 480p format, the button changes the WIDE MODE options to Letterbox, Cropped or Squeezed. When you view a picture with a standard (4:3) aspect ratio in 720p or 1080i format, the button changes the WIDE MODE options to Normal, Wide, Panorama, Zoom or CINE- Zoom. When you view a picture with a wide (16:9) aspect ratio in 720p or 1080i format, the button changes the WIDE MODE options to Standard, Expand, Shrink . Detailed descriptions of WIDE MODE options are given in section 2.4 or in the WIDE MODE section of the Preferences menu.

20 CC (Closed Caption) button

Changes the Closed Caption options of the DIRECTV HD Receiver. The closed caption mode can be selected in the Closed Caption section of the Preferences menu. You can also change the date of the Advanced Program Guide by pressing the CC button when the Guide is displayed.

4. FRONT PANEL AND REMOTE CONTROL

4-2. Using the Remote Control



- 21 HELP button**
 Opens the on-screen Help menu when no on-screen displays are open. You can also see the help description of a menu item when that menu is open by pressing and holding the HELP button.
- 22 SIGNAL button**
 Shows the signal strength of the current digital over-the-air channel or satellite channel. The signal strength may be improved by adjusting the over-the-air antenna or satellite dish antenna as directed by the antenna installation instructions.
- 23 CODE SET button**
 Lets you program the remote control to operate your TV and other audio/video equipment
- 24 POWER button**
 Turns on and off other devices in your home theater selected with the AV1/AV2/DVD/AMP switch. To operate other home theater devices, you may need to first set up the remote control
- 25 VCR/DVD control buttons**
 Operate VCR and DVD functions such as play, pause, stop, fast wind, rewind and record. To operate your VCR or DVD player, you may need to first set up the remote control
- 26 AMP VOL (amplifier volume) +/- buttons**
 Adjust the volume of your audio receiver. To operate your audio receiver, you may need to first set up the remote control
- 27 DVD navigation and select buttons**
 Let you highlight and select items in DVD menus. To operate your DVD player, you may need to first set up the remote control
- 28 DVD MENU button**
 Opens the menu system of the current DVD. To operate your DVD player, you may need to first set up the remote control
- 29 FORMAT button**
 Changes the video format that is output from the DIRECTV® High-Definition Receiver. Depending on the type of monitor that the DIRECTV HD Receiver is connected to, the available formats may include : native, 480i, 480p, 720p, 1080i, variable 1, variable 2, variable 3 and Auto DVI.
- 30 AV1/AV2/DVD/AMP switch**
 Sets the remote to operate other devices in your home theater. To operate other home theater devices, you may need to first set up the remote control

4-3. Programming THE REMOTE CONTROL

The RM-Y822 remote control is a universal remote control that can be programmed to control most TV, VCR, DVD and Amp models of the brands that appear on pages 39-40.

1. Find the code(s) for the brand of the device you want to operate with this remote control.

You can find these codes on pages 39-40.

2. Press the CODE SET button.

The function indicator begins flashing.

3. Press the 0-9 buttons to input the brand code, then press the ENTER button.

The function indicator goes off, and the remote is set up to operate that device.

4. Test the remote control.

Press the POWER button for that equipment, then press other operation controls such as the CH+/-buttons. If the device does not respond to the remote control, repeat from step 2 and enter a different brand code in step 3.

4. FRONT PANEL AND REMOTE CONTROL

4-4. Remote Control Codes for Other Components

TV Codes

Manufacturer	Code
Sony	101
Admiral (M. Wards)	102, 114, 109
ABC	112
Bell & Howell (M. Wards)	114, 109, 138
Broksonic	103, 112
Craig	122, 123, 120, 121
Croslex	111
Curtis Mathis	103, 119, 123
Daewoo	135, 136, 103
Daytron	116, 143
Dynasty	113
Emerson	122, 113, 120, 121, 123, 103, 115
Fisher	125
General Electric	102, 118, 103, 107
Goldstar	103, 113, 112, 130
Hitachi	131, 113, 103, 132
JCPenny	103, 102, 130, 107
JVC	128, 129
KTV	133, 113, 103, 123, 134
Loewe	111
LXI (Sears)	102, 103, 111, 125, 119, 112
Magnavox	111, 112, 113, 107
Mitsubishi/MGA	124, 103, 112
NEC	103, 112
Panasonic	118, 116, 117, 107
Philco	111, 118, 109
Philips	111
Pilot	103
Pioneer	137, 118, 119
Portland	103, 108
Quasar	110, 107
Radio Shack	102, 112, 124, 123
RCA/Proscan	102, 103, 104, 105, 106, 107, 108
Samsung	126, 112, 113, 103
Sanyo	125
Scott	123, 112
Sharp	114, 113, 115
Singnature 2000 (M. Wards)	114, 109
Sylvania	111, 112, 108
Symphonic	123, 139
Technika	109
Toshiba	119, 114
Vidtech	131, 103, 112
Wards	113, 103, 115, 112
Zenith	108, 110

VCR Codes

Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Audio Dynamics	314, 347
Bell & Howell (M. Wards)	330, 343
Broksonic	317, 319
Canon	309, 308
Citizen	332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
HQ	315
Instant Replay	309, 308
JCPenny	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	323, 305, 333, 334, 330, 335, 338
Magnavox	310, 308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	310, 308, 309
Pioneer	308
Quasar	306, 308, 309
RCAProscan	309, 305, 308, 309, 310, 311, 312, 313

4-4. Remote Control Codes for Other Components

VCR Codes (Continued)

Manufacturer	Code
Realistic	309, 330, 328, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 325, 328
Shintom	315
Signature 2000 (M. Wards)	336, 327
Sylvania	310, 308, 309, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknika	338, 342
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 336, 337
Zenith	331

AMP (Amplifier) Codes

Manufacturer	Code
Sony	501
Denon (Sharp)	516, 517, 518
Harmon	519
JVC	506, 507, 508
Kenwood	504, 505
McIntosh	520
Onkyo	512, 513
Pioneer	502, 503
Technics	509, 510, 511
Yamaha	514, 515

DVD Codes

Manufacturer	Code
Sony	601
Panasonic	604
Pioneer	605
RCA	602
Toshiba	603

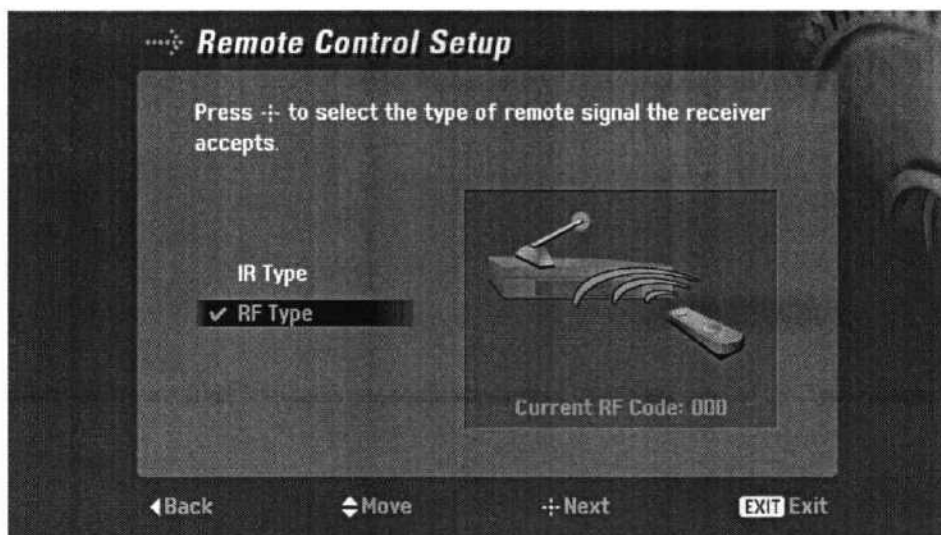
8. CUSTOMIZATION

8-23. Remote Control Setup

Your DIRECTV® High-Definition Receiver's remote control can be used in two ways. One is IR type, another is RF type. Let you change the IR/RF remote control receiver ID.

To choose the Remote Control type:

1. Press the **MENU** button on the Remote Control to display the on-screen menu.
2. Scroll down using "▼" on the remote control.
3. Select the System menu by pressing "⏏".
4. Scroll down to Remote Control using "▼".
5. Pressing "⏏". Remote Control Setup Wizard will be displayed.
6. Choose the IR type or RF type using "▲", "▼".
If you want the process to proceed, follow the instructions in Remote Control Setup Wizard.
7. Press the **EXIT** button on the remote control to return to TV viewing.



SYMPTOMS	SOLUTIONS
Normal picture but no sound.	<ul style="list-style-type: none"> - Check volume levels. - Make sure the TV is not muted. - Check that the DIRECTV® High-Definition Receiver is connected properly.
Picture is distorted.	<ul style="list-style-type: none"> - Make sure the proper format is selected. (see section 2-3) - Make sure the proper aspect ratio is selected. (see section 2-4) - Make sure the video output is connected to the TV. (see section 3-5)
Available channels are missing.	<ul style="list-style-type: none"> - If you are a DIRECTV customer, you can add a channel by running the "Manual Ch. Add" from the SETUP menu or find all available channels by running the "Auto Program" in the SETUP menu. (see section 8-7) - Otherwise, if the DIRECTV Receiver is in the ANT/CABLE mode, the only way that you can find all the available channels is by running the "Auto Program" in the SETUP menu. (see section 8-7)
4:3 Aspect ratio cannot be selected.	<ul style="list-style-type: none"> - Aspect ratio depends on both the incoming program format and the FORMAT button on the front panel. Once the button for the format is set to a standard definition (480i/480p) and the incoming program is standard definition, the aspect ratio can not be adjusted and a warning message will appear on the screen. (see section 8-12)
16:9 Aspect ratio cannot be selected.	<ul style="list-style-type: none"> - Similar to the above case, once the button for a format is set to high definition (720p/1080i) and an incoming program is high definition, the aspect ratio can not be adjusted and a warning message will appear on the screen. (see section 8-12)
The remote control is not responding.	<ul style="list-style-type: none"> - Make sure the batteries are fresh and installed properly. - Point the remote control unit at the remote control sensor. - Check if the correct operating mode on the remote control is selected.
The timer does not work.	<ul style="list-style-type: none"> - Make sure the clock is set properly. (see section 8-9)
You forget your password.	<ul style="list-style-type: none"> - If you subscribe to satellite service, contact your service provider to arrange for the password to be re-set - If you do not subscribe to satellite service and the DIRECTV HD Receiver is in the ANT/CABLE mode, enter the master password "7777".

Limited Warranty

Digital Satellite Receivers

SONY ELECTRONICS INC. ("SONY") warrants this Product against defects in material or workmanship as follows:

1. Labor: For a period of 90 days from the original date of purchase, if the Product is determined to be defective, SONY will repair or replace the Product at no charge. After this 90 day period, you must pay for all labor charges.
2. Parts: For a period of one year from the original date of purchase, SONY will supply, at no charge, new or rebuilt replacements in exchange for defective parts. Any replacements will be warranted for the longer of the remainder of the original warranty period or 90 days from the installation of the parts by a Sony authorized DIRECTV® System installer or facility.

To obtain warranty service:

- If the Product was installed by a SONY authorized DIRECTV System installer, contact that installer for instructions.
- If the Product was not installed by a SONY authorized DIRECTV System installer, you must take the Product or deliver the Product in either its original packaging or packaging affording an equal degree of protection (with freight prepaid), to a SONY authorized DIRECTV System service facility. To locate the closest such facility, please call the telephone number listed below.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product. This warranty does not cover improper installation (if not installed by a SONY authorized DIRECTV System installer), loss of use of the Product malfunction. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by SONY to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS. This warranty is valid only in the United States. Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the Product is within the Warranty period must be presented to obtain warranty service.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. IN NO EVENT SHALL SONY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. UNDER NO CIRCUMSTANCES SHALL SONY'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product. Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the SONY Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, SONY ELECTRONICS INC. has established telephone numbers for frequently asked questions:

For assistance with installation, contact the dealer from whom you purchased your Digital Satellite Receiver.

For product information or operation, for service assistance or for resolution of a service problem, call:

SONY SATELLITE SYSTEM INFORMATION CENTER 1-800-838-SONY (7669)

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)

About Sony Customer Support

Every DIRECTV System manufactured by Sony comes with Sony's Express Support at no charge to you. In the event of a system failure, our Express Support Program can have a replacement receiver on its way to you via overnight Federal Express (for calls Monday-Friday until 7:30 pm Eastern Time; Saturday delivery depends upon zip code). All it takes is a valid credit card to cover a security deposit, and Sony will pay freight in both directions. Our Express Support continues with our 800 number, staffed by dedicated technical representatives who can answer questions on dealer locations, system operation, installation, hookup, accessories, and how to get the most out of your home entertainment system. Sony's Express Support program: another expression of our commitment to excellence in customer service.