

We recommend that you write the following information in the spaces provided below. You may need to provide this information if you call DIRECTV Service Center.

Purchase Location Name:	
Purchase Location Telephone Number:	
RECEIVER Model Number:	CDSR-6199 CDSR-6299
RECEIVER Serial Number:	
SmartCard Serial Number:	
FCC Ringer Equivalence Number:	0.1B

The information contained herein is subject to change without notice. Revisions may be issued to advise of such changes and/or additions.

Correspondence regarding this publication should be addressed directly to:

Blonder Tongue Laboratories, Inc.
One Jake Brown Road
Old Bridge, NJ 08857

Document Number: 651194000

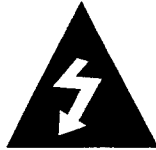
Printed in the United States of America.

All product names, trade names, or corporate names mentioned in this document are acknowledged to be the proprietary property of the registered owners.

DIRECTV is a registered trademark of DIRECTV, Inc., a unit of Hughes Electronic Corp. and is used with permission.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Reverse engineering or disassembly is prohibited.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT.
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

WARNING: TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV System Installer's attention to Article 820-40 of the NEC that 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 cable entry as practical.

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Introduction

The 6199 and 6299 Commercial Digital Satellite Receivers receive and decode digital MPEG2 video and audio signals transmitted via the DIRECTV group of satellites. For convenience of installation, the chassis fits into a standard 19" wide by 1.75" high rack mount.

The RECEIVER rear panel features an industry-standard, coaxial "F" connector for video output. The rear panel also provides a monaural, high impedance audio output and a stereo output via a terminal strip.

THIS RECEIVER IS NOT DESIGNED, APPROVED, NOR WARRANTED FOR USE IN ANY NON-COMMERCIAL ENVIRONMENT, INCLUDING ANY SINGLE FAMILY RESIDENCE OR ANY OTHER LOCATION, THE PRIMARY PURPOSE OF WHICH IS TO SERVE AS A SINGLE FAMILY RESIDENTIAL DWELLING.

Activation and Assistance

For information on installing the RECEIVER, see "Installing the RECEIVER" on page 9.

Once you have installed the RECEIVER, call 1-800-DIRECTV or 1-800-204-USSB to activate your account. This will allow viewing of DIRECTV programming.

If you need assistance with this product, call the Blonder Tongue Labs Tech Support Department at 732-679-4000.

For information on the warranty, see "Limited Warranty" on page 18.

Returning Product for Repair (or Credit)

A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: **www.blondertongue.com** for further information.

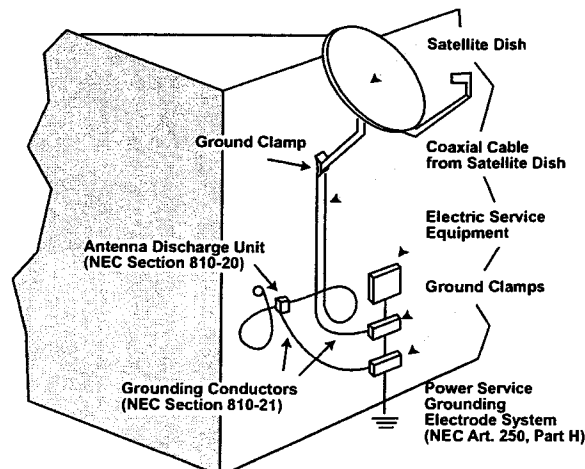
Safety Instructions

WARNING!



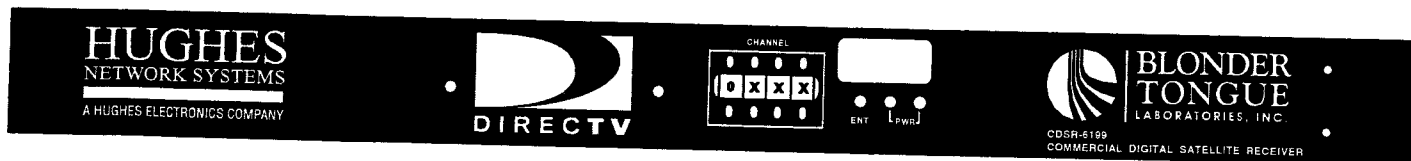
You should *always* follow these instructions to help ensure against injury to yourself and damage to your equipment.

- ◆ Read all safety and operating instructions before you operate the RECEIVER.
 - ◆ Retain all safety and operating instructions for future reference.
 - ◆ Heed all warnings on the RECEIVER and in the safety and operating instructions.
 - ◆ Follow all installation, operating, and use instructions.
 - ◆ Unplug the RECEIVER from the AC power outlet before cleaning. Use only a damp cloth for cleaning the exterior of the RECEIVER.
 - ◆ Do not use accessories or attachments not recommended by Blonder Tongue, as they may cause hazards, and will void the warranty.
 - ◆ Do not operate the RECEIVER in high-humidity areas, or expose it to water or moisture.
 - ◆ Do not place the RECEIVER on an unstable cart, stand, tripod, bracket, or table. The RECEIVER may fall, causing serious personal injury and damage to the RECEIVER. Install the RECEIVER only in a mounting rack designed for 19" rack-mounted equipment.
 - ◆ Do not block or cover slots and openings in the RECEIVER. These are provided for ventilation and protection from overheating. Never place the RECEIVER near or over a radiator or heat register. Do not place the RECEIVER in an enclosure such as a cabinet without proper ventilation. Do not mount equipment in the rack space directly above or below the RECEIVER.
- Operate the RECEIVER using only the type of power source indicated on the marking label. Unplug the RECEIVER power cord by gripping the plug, not the cord.
- ◆ The RECEIVER is equipped with a three-wire ground-type plug. This plug will fit only into a ground-type power outlet. If you are unable to insert the plug into the outlet, contact an electrician to replace the outlet. Do not defeat the safety purpose of the ground-type plug.
 - ◆ Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
 - ◆ Be sure that the outdoor components of the Satellite Dish Antenna are grounded in accordance with local, federal, and National Electrical Code (NEC) requirements. Pay special attention to NEC Sections 810 and 820. See the example shown in the following diagram:

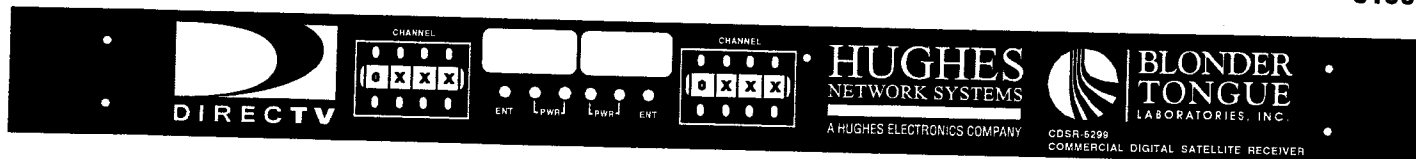


Safety Instructions - continued

- ▲ We strongly recommend using an outlet that contains surge suppression or ground fault protection. For added protection during a lightning storm, or when the RECEIVER is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the lines between the RECEIVER and the Satellite Dish Antenna. This will prevent damage caused by lightning or power line surges.
- ◆ Do not locate the Satellite Dish Antenna near overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing the Satellite Dish Antenna, take extreme care to avoid touching such power lines or circuits, as contact with them can be fatal.
- ◆ Do not overload wall outlets or extension cords, as this can result in a risk of fire or electrical shock.
- ◆ Never insert objects of any kind into the RECEIVER through openings, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.
- ◆ Do not attempt to service the RECEIVER yourself, as opening or removing covers (except the SmartCard cover) may expose you to dangerous voltage and will void the warranty. Refer all servicing to authorized service personnel.
- ◆ Unplug the RECEIVER from the wall outlet and refer servicing to authorized service personnel whenever the following occurs:
 - ☐ The power supply cord or plug is damaged;
 - ☐ Liquid has been spilled, or objects have fallen into the RECEIVER;
 - ☐ The RECEIVER has been exposed to rain or water;
 - ☐ The RECEIVER has been dropped or the chassis has been damaged;
 - ☐ The RECEIVER exhibits a distinct change in performance.
- ◆ When replacement parts are required, ensure that the service technician uses replacement parts specified by Blonder Tongue. Unauthorized substitutions may damage the RECEIVER or cause electrical shock or fire, and will void the warranty.
- ◆ Upon completion of any service or repair to the RECEIVER, ask the service technician to perform safety checks to ensure that the RECEIVER is in proper operating condition.

The RECEIVER**Front Panel**

6199



6299

SmartCard Slot Cover

The RECEIVER comes with the SmartCard already installed. See "Error Messages" on page 12 for more information about the SmartCard.

ATTENTION!

The RECEIVER works only with the SmartCard installed. You must use the SmartCard that was authorized for your RECEIVER. The Limited Warranty does not cover replacement of SmartCards that you lose or damage.

Power LED

This LED indicates the RECEIVER is on.

Channel Selector Switch

Channel Selector is used to select the channel that one intends to view. After the channel has been selected one must depress the "ENTER" button, this prompts the RECEIVER to first "read" the channel switch bank and second "tune" to the selected channel. The banner at the top of the TV will automatically read the channel selector switch and tune to channel selected.

Blonder Tongue Labs recommends that the appropriate channel be marked on the front panel in the white area adjacent to the channel selector switch. This provides an easy reference should someone accidentally mis-set the channel selector. Please note that an accidentally mis-set channel selector will not immediately cause the RECEIVER to tune to the mis-set channel unless the "ENTER" is depressed. However, a mis-set channel selector can cause the RECEIVER to automatically tune to the mis-set channel following a power failure.

Note: The leftmost significant digit must be set to zero(0) at all times except when accessing menu functions (see page 8).

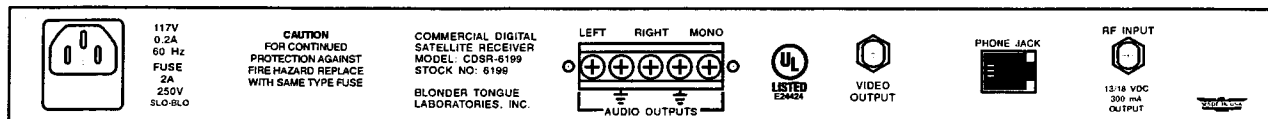
Front Panel Switches**Switch 1 "Enter"**

Press the 'Enter' button to enter a channel selected by the channel selector switch.

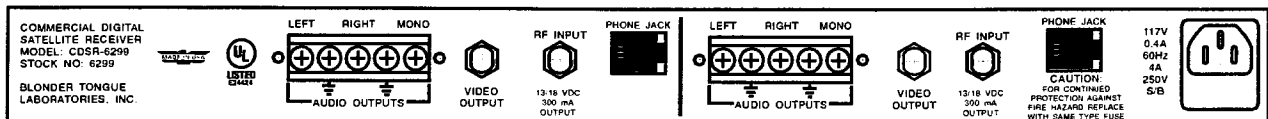
Switch 2 "Power"

Press the 'Power' button once to place the RECEIVER in the standby mode. Press the 'Power' button a second time to recover from the standby mode. Note: Cycling power via the power button does not prompt the RECEIVER to "read" the channel selector switch. For example, the RECEIVER is tuned to channel 102. Change the channel to 202 and the cycle power via the power button. Notice that the RECEIVER comes back to 102. The "Enter" button must be pressed to prompt the RECEIVER to read the channel selector switch and tune to the channel selected. (In this example 202)

Back Panel



6199

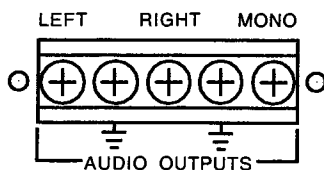


6299

Power Entry

The unit is intended to operate over the range of 85 to 135 VAC, 50/60 Hz. The power entry receptacle is a polarized, 3-pin, IEC-320 series containing a fuse. The fuse type used is 2 A, 250V slow-blow (5 x 20 mm size) for the 6199 and 4A for the 6299.

Audio Output



The screw terminal strip provides single stereo, unbalanced Left and Right audio outputs. It also provides mono audio on the same terminal strip.

Video Output



The female "F" connector provides a single 75 Ohm, video output.

RF Input



This female "F" connector receives an IF signal, 950 - 1450 MHz RF input from the Satellite Dish Antenna and provides power for LNB.

Telephone Jack



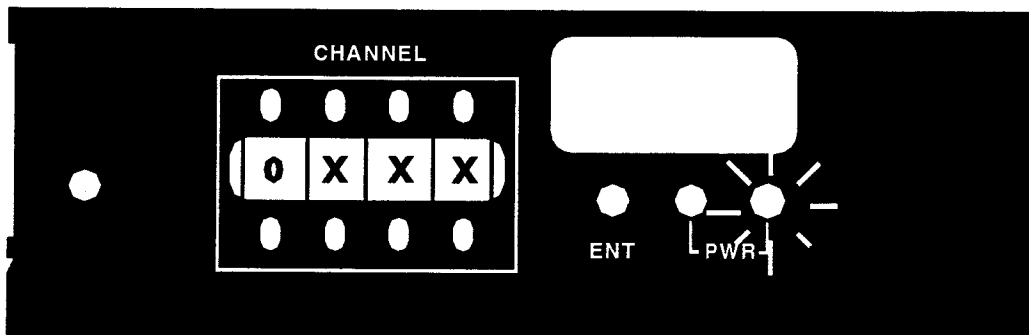
Connect a telephone line to this standard RJ-11 connector, and then connect the line to an active telephone connection. This connection can be "daisy-chained" among multiple RECEIVERS.

Using the RECEIVER

Start-up Information

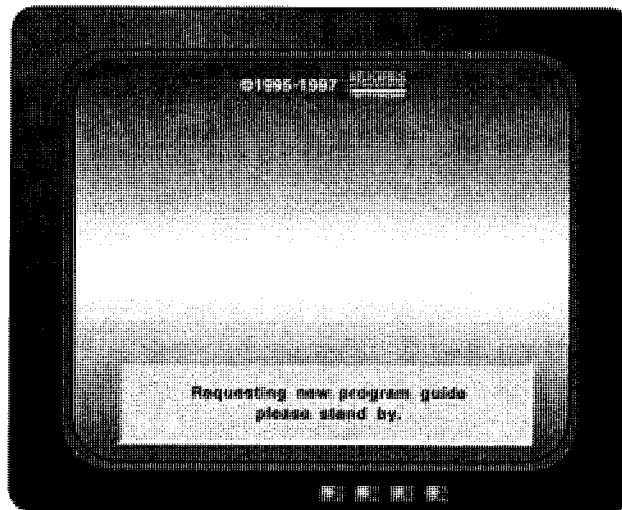
RECEIVER must be connected to the Satellite Dish Antenna. When you plug the RECEIVER power cord into an outlet, the RECEIVER turns on. A TV or monitor must be connected to the output of the RECEIVER to verify the following:

- 1) Verify Green LED is ON, if not, push "power" button located in front panel and verify LED is ON.



6199

- 2) The TV or monitor should connect to the RECEIVER. Verify the following display on the screen.



- 3) Verify channel selector switch in front panel is set to Channel 100.
- 4) TV should be tuned to channel 100 (Preview Channel).

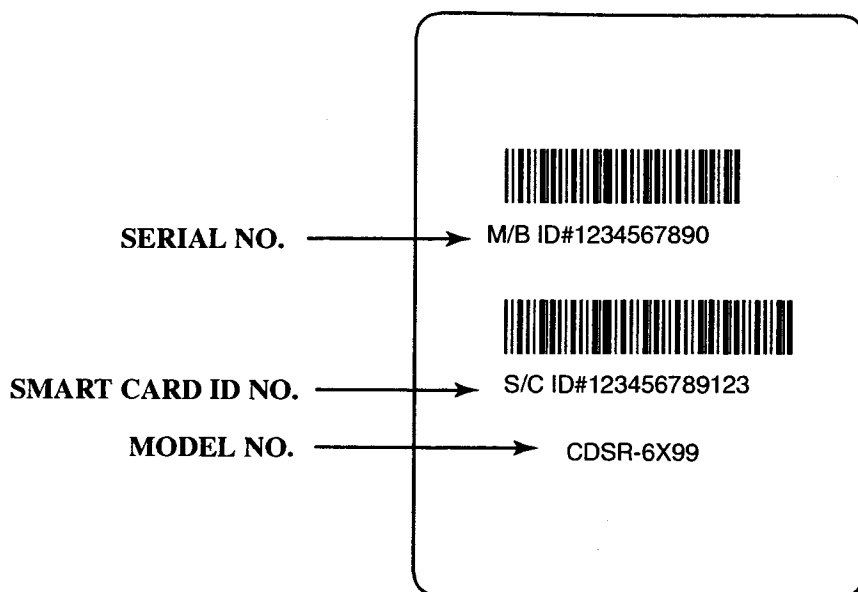
CDSR 6x99 Instruction Manual

System Information

To authorize the RECEIVER, contact DIRECTV Commercial group.

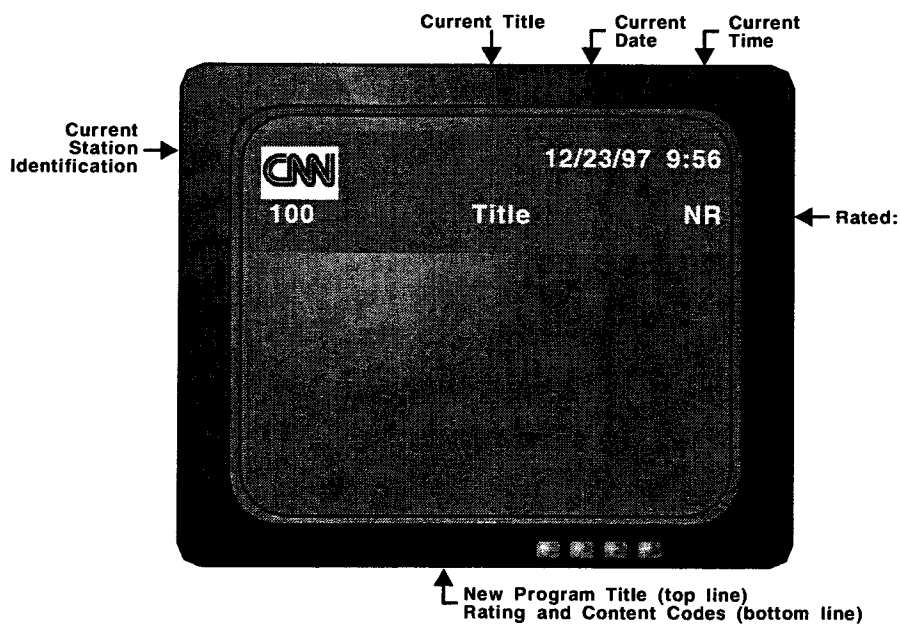
The RECEIVER Serial Number, Model(CDSR-6199 or CDSR-6299) and Smart Card CA ID numbers are required to authorize the RECEIVER.

This information is provided on the side of the RECEIVER and on the shipping box.



Channel Selection

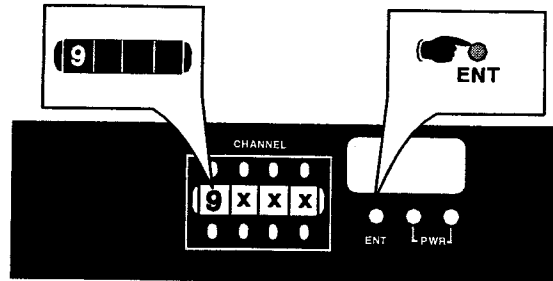
To change channels, simply select the proper channel using the Push Wheel Switch. Press the 'Enter' switch. The TV will be tuned to the new channel with the banner momentarily displayed at the top of the TV.



Accessing Menu Functions

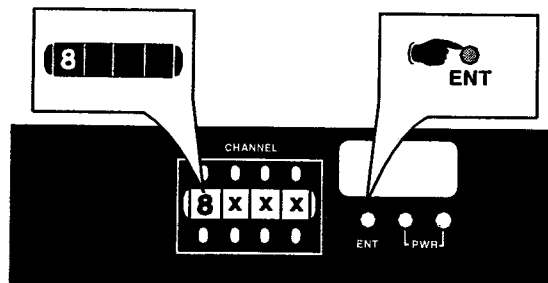
1. Change the first digit on the thumbwheel switch (the left-most) to # **9 (Action)** and press **Enter**. This activates the **Action** function of the DIRECTV™ Menu system and should appear at the top left of the TV screen.

Note: This button is like a shift key and is active for about 5 seconds. The enter button is located in a small opening on the front of the unit and can be depressed by using a small tool such as a screwdriver.



2. Change the thumbwheel switch (the left-most) to # **8 (Guide / Menu)** and press **Enter**. This should display the **Menu**. This action must be made within 5 seconds of **Action** appearing on the screen. If too long of a time lapse occurs, then step 1 must be completed again before step 2.

Note: You can also access the Menu by setting the left-most thumbwheel switch to #8 (Guide / Menu) and press **Enter** to access the **Guide**. If you press Enter again, a small menu will display that allows you to select Menu. You highlight the Menu button and change the left-most thumbwheel switch to #7 (Select) and press **Enter**.



Menu Function Keys	
0	= Channel Selection
9	= Action
8	= Guide/Menu
7	= Select
6	= Up
5	= Down
4	= Right
3	= Left

3. Change the the left-most thumbwheel selector to # **6 (Up)** or # **5 (Down)** to move Up or Down respectively. Press the **Enter** once to move in either direction. The # **4 (Right)** and # **3 (Left)** allow for Right/Left Movement.
4. Set the the left-most thumbwheel switch to # **7 (Select)** after navigating the desired location and press **Enter**. This acts as the **Select** button.

To Authorize a New Card

1. Follow steps 1 and 2 in Access Menu Functions above. Change the the left-most thumbwheel switch to the # **5 (Down)** and press **Enter** 5 times to navigate to "New Card".
2. Change the the left-most thumbwheel selector to # **7 (Select)** and press **Enter**.
3. Follow all on-screen instructions to perform the new authorization

IMPORTANT NOTE!

Upon Completion, the first (left-most) thumbwheel switch digit must be reset to Zero!

Installing the RECEIVER

Installation Requirements

Mounting

The RECEIVER is 1.75 inches tall, 19.00 inches wide, and 14.5 inches (18.5 inches for 6299) deep. It can be mounted in a standard rack or on any type of shelf that allows air flow through the ventilation slots.

Power

60 Hz, 110 VAC

WARNING!



For safe and reliable operation, the RECEIVER requires a proper ground connection for the third prong of the RECEIVER power cord plug.

Installing the RECEIVER in a Rack

The RECEIVER can be mounted in a standard EIA, 24 inch (610 mm) deep, enclosed rack. Secure the RECEIVER front panel to the rack by inserting four machine screws, with cup washers, through the four mounting holes in the front panel.

ATTENTION!



We recommend that you support the RECEIVER by some means in addition to the front panel screws. You can use angle support brackets or rack slides; the size and type will depend on the rack you use. Rear rail support brackets are available from BT at a nominal cost. Order Part Number 622280100A.

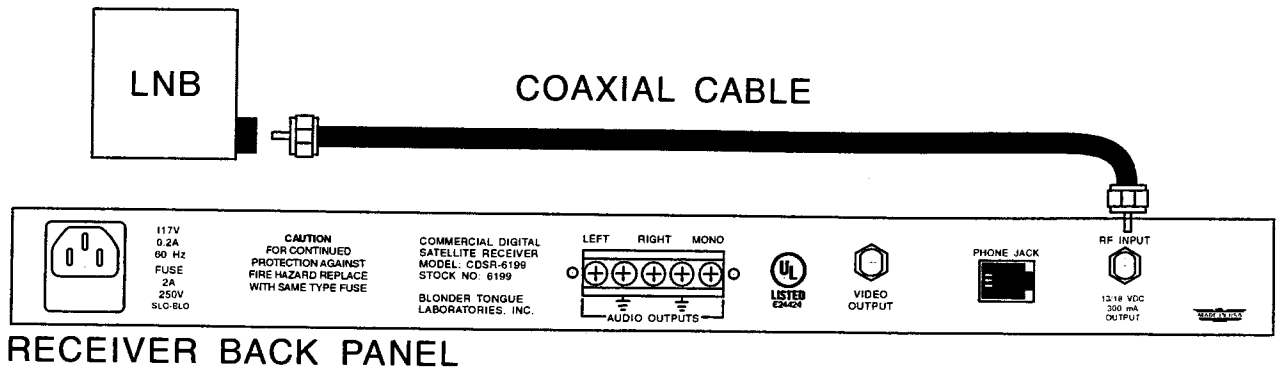
Connecting the RECEIVER to Your DIRECTV System

Single versus Dual Output LNB

A single-output LNB can support a single RECEIVER, or multiple receivers all tuned to the same polarity group of channels.

♦ *If you use a single RECEIVER:*

Route the LNB coaxial cable to the **RF Input** on the RECEIVER back panel.

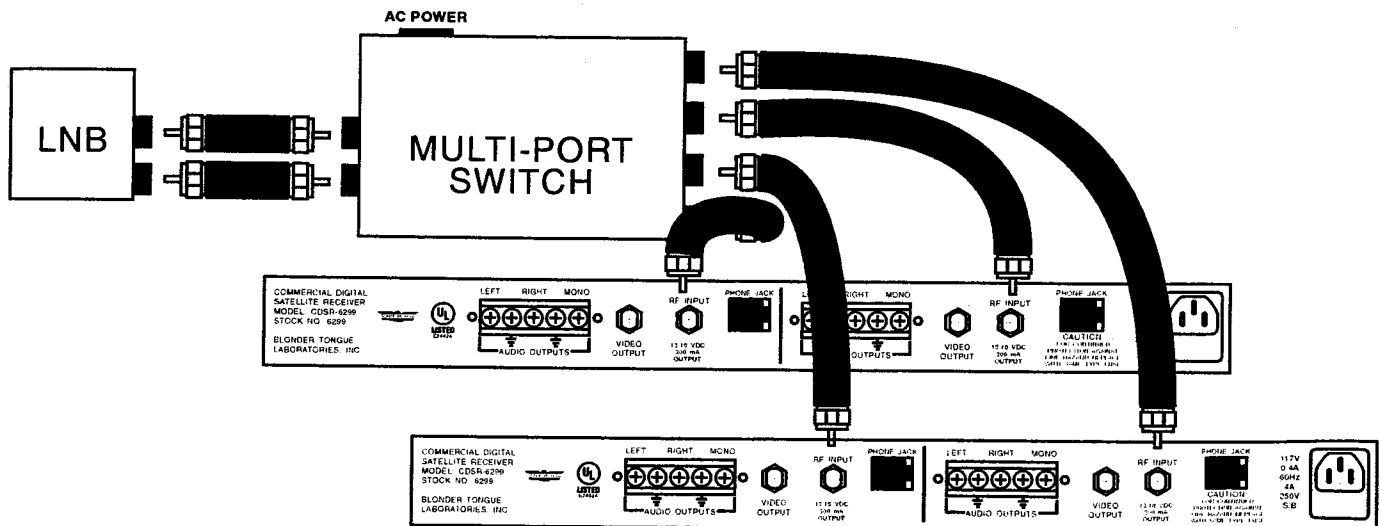


A dual output LNB can support multiple RECEIVERS, all tuned to different channels; or two groups of RECEIVERS, where the RECEIVERS in a group all have the same polarity group of channels available to them.

♦ *If you want all the RECEIVERS to be independently tunable:*

Route the LNB coaxial cables to a voltage-controlled, multi-port switch.

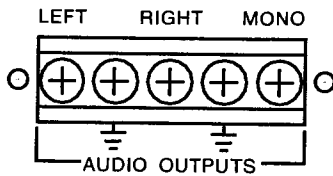
Route a coaxial cable from a switch output to the **RF Input** on the back panel of each of the RECEIVERS.



Audio Connections

NOTE: If you use multiple RECEIVERS, the following instructions apply to each RECEIVER.

- ◆ For unbalanced mono (left and right combined) audio (Low impedance):
Route one wire from the RECEIVER back panel **Terminal Strip** to the RF modulator audio input.
- ◆ For unbalanced stereo audio (600 ohm impedance):
Route one wire from the left plus terminal, one wire from the right plus terminal, and two wires from the center ground terminal of the RECEIVER back panel Audio Output screw terminal strip to the corresponding connections on an RF modulator or to a stereo encoder.



Video Connections

NOTE: If you use multiple RECEIVERS, the following instructions apply to each RECEIVER.

- ◆ For connecting to an RF modulator:
Route a coaxial cable from the RECEIVER back panel **Video Output** to the RF modulator video input.



Error Messages

Note: A major error message indicates a condition that you must correct to allow the RECEIVER to operate. When the RECEIVER displays such a message, you will not have access to any menu until you have corrected the condition. A minor error message indicates a condition that may degrade, but will not prevent RECEIVER operation. If you have any questions, please contact the Blonder Tongue Customer Service Department. Please note that the TV must be connected to the RECEIVER to display all these messages.

Major Error Messages

- ◆ **SEARCHING FOR SATELLITE SIGNAL TO ACCESS RELATED UTILITIES, PRESS SELECT**
The RECEIVER displays this message when the satellite signal reception is affected. Check the signal strength. Check the cable to RF input connector. Check the LNB. Rain clouds and snow can also affect the satellite signal reception; however, this loss of signal is temporary. Check to ensure that no object is blocking the signal. Mis-alignment of the satellite dish caused by wind, etc. will also affect reception.
- ◆ **PLEASE INSERT YOUR ACCESS CARD**
The RECEIVER displays this message when no SmartCard is inserted. Insert the proper SmartCard.
- ◆ **PLEASE INSERT A VALID ACCESS CARD**
The RECEIVER displays this message when the SmartCard is inserted upside-down or backwards. Insert the SmartCard with the arrow up, pointing toward the RECEIVER.

Minor Error Messages

- ◆ **CHANNEL UNAVAILABLE**
The RECEIVER displays this message when the RECEIVER has not yet been authorized for this channel. Call 1-800-DIRECTV to authorize the RECEIVER.

Helpful Information

- ◆ **Pay Per View**
The RECEIVER displays this message when you try to tune to an unauthorized Pay Per View channel. For ordering information, please call customer service.

Technical Specifications

Description		Specification
System Specification		
TV System:		NTSC
Input Symbol Rate:		20 Msps
Modulation:		QPSK
Inner FEC:		Convolutional rate 2/3, 6/7
Outer FEC:		Error Concealment
Physical		
Dimensions:	6299	18.5" x 19" x 1.75" (max) (470 mm x 482.6 mm x 44.4mm)
	6199	14.5" x 19" x 1.75" (max) (368.3 mm x 482.6 mm x 44.4mm)
Operating Temperature:		32 to 122°F (0 to 50°C)
Storage Temperature:		-4 to 158°F (-20 to 70°C)
Humidity:		0 to 90% RH (non-condensing)
Color:		Black front panel; natural aluminum finish chassis
Mounting:		Standard 1 unit high, 19" (482.6 mm) rack mount

Technical Specifications - continued

Description	Specification
Features	
Security System:	SmartCard receptacle (ISO 7816 compatible)
Front Panel Control:	2 switch buttons, interactive selection Push Wheel switch for channel selection
Tuner	
Input Frequency Range:	950 to 1450 MHz
Input Impedance:	75 Ω
Connector Type:	F-type female
Input Level:	-65 dBm to -25 dBm (per carrier)
Return Loss:	- 6dB max into 75 Ω
Composite Input Power Level:	-6 dBm max
IF Bandwidth:	24.0 MHz at -3 dB
Adjacent Channel Power:	± 4 dBm
Power Supply	
Input Voltage:	110 +/- 22% VAC single phase
Voltage Frequency:	60 Hz +/- 10 Hz
Power Entry:	Polarized 3-pin IEC-320 series fused receptacle
Protection:	Externally and internally fused

Description	Specification
LNB Power Supply	
RHCP Polarity Switching:	Vmin 12.6 VDC Vmax 14.0 VDC
LHCP Polarity Switching:	Vmin 17.1 VDC Vmax 19.0 VDC
Current:	300 mA (max)
Protection:	lightning, short circuit
Composite Video Output	
Composite Video:	NTSC, reconstructed from CCIR-656 video data
Connector:	"F" female
Level:	1.0 V (p-p) \pm 2dB into 75 Ω
Differential Gain:	< 10%
Differential Phase:	< 5°
Luma Delay:	\pm 75 ns
S/N ratio(10 KHz to 4.2 MHz):	> 50 dB (weighted)

Technical Specifications - continued

Description	Specification
Audio Output	
Number of channels	Two standard(L & R)
Operating Modes:	Stereo, Mono
Impedance:	Left & Right unbalanced, (600 Ω) Mono Low impedance
Output Level:	0.2 Vrms(min) 2.0 Vrms(max)
Output Connectors:	Terminal strip (Left, Right, Mono)
Frequency Response:	20 Hz to 20 KHz +/- 1 dB
Total Harmonic Distortion:	< 0.5% at 1 KHz
Dynamic Range:	90 dB
Adjacent Audio Channel Gain Difference (50 Hz-15KHz):	< 1.5 dB
Adjacent Audio Channel Phase Difference (50 Hz-15KHz):	< 3°
S/N Ratio:	90 dB
Audio to Video Time Differential:	\pm 20 ms
Internal Modem	
Baud rate:	2400 (max)
Signal Format	Compatible with V.22bis (2400), V.22 (1200), Bell 212A (1200), Bell 103 (300)
Connector:	RJ-11
Instruction Set:	Compatible with Hayes command set
Auto-dialer Type:	Both pulse and DTMF dialers to be provided

Technical Specifications - continued

Description	Specification
Internal Modem (continued)	
Signal to Noise Performance:	Error rate > 0.00011 for S/N > 14 dB
Active Circuit Isolation:	600 Ohm isolation transformer, 1500 VDC primary to secondary isolation. Off-hook relay must provide 1500 VDC contact to coil isolation.
Surge Suppression	FCC Part 68 Metallic surge: 800 V peak at 10 usec max. rise time. 560 usec min. decay time to half crest. Longitudinal surge: 1500 V peak between tip and ring to ground. 10 usec max. rise time, 160 usec min. decay time to half crest.
Line Interfacing:	FCC Part 68 On-hook leakage tip-to-ring greater than 5M Ohm with applied voltage of less than 100 V. Longitudinal balance: 60 dB, 200 to 1000 Hz, 40 dB, 1000 to 4000 Hz
Off-Hook Detect:	Modem automatically ceases communication and releases telephone line if a second telephone is connected to the same line as detected off-hook.
Agency Approvals	
Modem:	FCC Part 68
Safety:	UL Listed 1409

Limited Warranty

Blonder Tongue Laboratories, Inc. (BT) will at its sole option, either repair or replace (with a new or factory reconditioned product, as BT may determine) any product manufactured by BT which proves to be defective in materials or workmanship or fails to meet the specifications which are in effect on the date of shipment or such other specifications as may have been expressly agreed upon in writing (i) for a period of one (1) year from the date of original purchase (or such shorter period of time as may be set forth in the license agreement specific to the particular software being licensed), with respect to iCentral™ (hardware and software) and all other software products (including embedded software) licensed from BT, (ii) for a period of one (1) year from the date of original purchase, with respect to all fiber optics receivers, transmitters, couplers and integrated receivers/distribution amplifiers (including TRAILBLAZER™, RETRO-LINX™ and TWIN STAR™ products) as well as for VideoCipher® & DigiCipher® satellite receivers, and (iii) for a period of three (3) years from the date of original purchase, with respect to all other BT products. Notwithstanding the foregoing, in some cases, the warranty on certain proprietary sub-assembly modules manufactured by third-party vendors and contained in BT products and on certain private-label products manufactured by third-parties for resale by BT are of shorter duration or otherwise more limited than the standard BT limited warranty. In such cases, BT's warranty with respect to such third-party proprietary sub-assembly modules and private-label products will be limited to the duration and other terms of such third-party vendor's warranty. In addition, certain products that are not manufactured, but are resold by BT, carry the original OEM warranty for such products.

To obtain service under this warranty, the defective product, together with a copy of the sales receipt or other satisfactory proof of purchase and a brief description of the defect, must be shipped freight prepaid to: Blonder Tongue Laboratories, Inc., One Jake Brown Road, Old Bridge, New Jersey 08857.

This warranty does not cover damage resulting from (i) use or installation other than in strict accordance with manufacturer's written instructions, (ii) disassembly or repair by someone other than the manufacturer or a manufacturer-authorized repair center, (iii) misuse, misapplication or abuse, (iv) alteration, (v) lack of reasonable care or (vi) wind, ice, snow, rain, lightning, or any other weather conditions or acts of God.

OTHER THAN THE WARRANTIES SET FORTH ABOVE, BT MAKES NO OTHER WARRANTIES OF REPRESENTATIONS OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE CONDITION, DESCRIPTION, FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR AS TO ANY OTHER MATTER, AND SUCH WARRANTIES SUPERSEDE ANY ORAL OR WRITTEN WARRANTIES OR REPRESENTATIONS MADE OR IMPLIED BY BT OR BY ANY OF BT'S EMPLOYEES OR REPRESENTATIVES, OR IN ANY OF BT'S BROCHURES, MANUALS, CATALOGS, LITERATURE OR OTHER MATERIALS. IN ALL CASES, BUYER'S SOLE AND EXCLUSIVE REMEDY AND BT'S SOLE OBLIGATION FOR ANY BREACH OF THE WARRANTIES CONTAINED HEREIN SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT F.O.B. SHIPPING POINT, AS BT IN ITS SOLE DISCRETION SHALL DETERMINE. BT SHALL IN NO EVENT AND UNDER NO CIRCUMSTANCES BE LIABLE OR RESPONSIBLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, PUNITIVE, DIRECT OR SPECIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT LIABILITY OR OTHERWISE OR ANY OTHER LEGAL THEORY, ARISING DIRECTLY OR INDIRECTLY FROM THE SALE, USE, INSTALLATION OR FAILURE OF ANY PRODUCT ACQUIRED BY BUYER FROM BT.

All claims for shortages, defects, and non-conforming goods must be made by the customer in writing within five (5) days of receipt of merchandise, which writing shall state with particularity all material facts concerning the claim then known to the customer. Upon any such complaint, the customer shall hold the goods complained of intact and duly protected, for a period of up to sixty (60) days. Upon the request of BT, the customer shall ship such allegedly non-conforming or defective goods, freight prepaid to BT for examination by BT's inspection department and verification of the defect. BT, at its option, will either repair, replace or issue a credit for products determined to be defective. BT's liability and responsibility for defective products is specifically limited to the defective item or to credit toward the original billing. All such replacements by BT shall be made free of charge f.o.b. the delivery point called for in the original order. Products for which replacement has been made under the provisions of this clause shall become the property of BT. Under no circumstances are products to be returned to BT without BT's prior written authorization. BT reserves the right to scrap any unauthorized returns on a no-credit basis. Any actions for breach of a contract of sale between BT and a customer must be commenced by the customer within thirteen (13) months after the cause of action has accrued. A copy of BT's standard terms and conditions of sale, including the limited warranty, is available from BT upon request. Copies of the limited warranties covering third-party proprietary sub-assembly modules and private-label products manufactured by third-parties are also available from BT on request. VideoCipher® & DigiCipher® are registered trademarks of Motorola Corp.

Appendix - continued

Staying Legal

Title 47, Section 605(e)4, United States Code (U.S.C.) makes it a federal crime to modify this RECEIVER to enable it to receive encrypted (scrambled) television programming without payment of required subscriptions. Conviction can result in a fine of up to \$500,000 and imprisonment for five years, or both. Any owner of this RECEIVER who procures or willfully causes its modification is an accessory to that offense and may be punishable in the same manner. Investigative authority for violations lies with the Federal Bureau of Investigation (FBI).

FCC Compliance

ATTENTION!



The following text is extracted from FCC regulations as of the publication date of this Guide. Contact the FCC or your local library for the complete text of the regulations.

This equipment complies with Part 68 of the FCC rules.

The REN for this product is 0.1B.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). The commercial RECEIVER does not affect the sum of RENs. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

This equipment uses the following USOC (Universal Service Order Code) jacks: RJ-11C.

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant.

This equipment cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify you as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

- ◆ Move or realign the antenna or receiving device, such as your broadcast TV antenna.
- ◆ Increase the distance between the RECEIVER and the equipment with the interference. Change the angle of the RECEIVER relative to the equipment.
- ◆ Plug the RECEIVER into a different power outlet, preferably on a different fuse circuit within your building.

This equipment is hearing-aid compatible.

It is recommended that the customer install an AC surge arrestor in the AC outlet to which this device is connected. This is to avoid damage to the equipment caused by local lightning strikes and other electrical surges.