

## **STARGUIDE III QUICK START GUIDE**

***REVIEW THIS GUIDE IN ITS ENTIRETY BEFORE INSTALLING YOUR RECEIVER.***

- **Make all satellite RF and audio connections prior to applying AC power to the Starguide receiver.**
- **The Starguide III receiver must be powered down before you install or remove any option cards located in the expansion ports. None of the cards in the receiver are “hot-swappable”.**
- **ABC strongly recommends the use of a Phase Lock Loop (PLL) LNB for your new Starguide receiver. The Local Oscillator (LO) stability of your LNB should not be above (worse than) 25kHz.**
- **If this receiver is designated to supply DC power to the LNB at your dish, be sure to turn on the LNB VOLTAGE switch on the back of the receiver AFTER the LNB is connected.**
- **ABC urges stations to use an Uninterruptible Power Supply (UPS) for the Starguide receiver for equipment protection from power spikes or brownouts. Also consider lightning protection if you are located in an area susceptible to frequent lightning storms. Surge suppressors do not provide sufficient protection.**
- **The ABC Radio Networks New York Technical Services office is staffed Monday-Friday from 9:00am until 5:00pm ET for receiver authorization and technical assistance.**

**(212) 456-5000 – option #4**

**(212) 456-5708 – fax**

**E-MAIL: [abcrn.techservices@abc.com](mailto:abcrn.techservices@abc.com)**

## **AUDIO OUTPUTS:**

The analog audio outputs for your services appear at the DB-9 connectors on the DECODER cards plugged into the expansion ports at the back of the Starguide receiver. Wiring pinouts are on the attached BACKPLANE DIAGRAM.

**RULE #1: There are two audio sources on each DECODER. PINS 1 and 6 are the left, or A, channel and PINS 5 and 9 are the right, or B, channel.**

**RULE #2: Do not wire to the MONO SUM of the DECODER. Most feeds are fed in dual-mono. You will get both feeds on the MONO SUM output.**

## **AUTOMATION CLOSURES:**

### ***24-HOUR MUSIC FORMATS:***

If you intend to use the receiver for one of ABC's 24-hour music formats, you should use the DECODER card in PORT C and the RELAY CONTACTS card in PORT B. Be advised that these two cards are physically connected and must be removed or inserted as a pair. Both cards will be damaged if you attempt to remove them individually. Wiring information can be found on the backplane diagram.

**RULE #1: The RELAY CONTACTS card physically plugs in to the audio DECODER card directly beneath it!**

**RULE #2: You should not use the NETCUE/DATA card for 24-hour format relay closures.**

### ***ABC NEWS, ESPN RADIO, DICK BARTLEY or other ABC PROGRAMMING:***

ABC and Starguide have developed the Netcue/Data Card (NCC) to provide 16 remotely programmable contact closures. The NCC contains 16 Form "A" relays to present dry contact closures to the user. The relays are available on a DB-37 connector on the NCC (labeled RELAYS). The NCC also contains a serial output of ABC DATA on an RJ-45 connector (labeled SER1). There is also a second serial port contained within the "RELAYS" connector which carries the Netcue data stream. Wiring information can be found on the backplane diagram.

### ***ABC SATELLITE SERVICES RELAY CLOSURES:***

Many of the ABC Satellite Services clients use the four (4) relay closures that are built in to the audio decoder card. Pinout instructions for these closures can be found on the BACKPLANE DIAGRAM. Contact your program syndicator for relay assignments.

NOTE: Some ABC Satellite Services clients also utilize ABC Netcue. Be sure to contact your program syndicator to determine if this option is available.

## **RECEIVER TUNING:**

Your Starguide III receiver is pre-tuned to ABC's carrier on AMC-8. Once you apply AC power, you should see the following on the green LCD display:

**STARGUIDE III**  
**EB ##.# AG ###** (# = numerical value)

If the receiver does not acquire our carrier, the red LED will illuminate steadily and the LCD screen will display:

**STARGUIDE III**  
**ACQUIRING**

To tune the Starguide receiver to ABC's Starguide carrier on AMC-8:

**Press <Enter> on the Starguide keypad:**  
**Press ► until you get to CARRIER MENU, press <Enter>**  
**Press ► until you get to MANUAL ENTRY, press <Enter>**  
**Enter the frequency: 0990000 kHz, press <Enter>**  
**Enter the data rate: 13824000 BPS, press <Enter>**  
**Press ► until: VIT: 2/3 is displayed, press <Enter>**

The receiver should lock. (Green SIGNAL and SYNC LEDs will illuminate steadily).

- Note that it may take a several minutes for the receiver to download the ABC Starguide Provider and Service tables. These tables provide the channel labels you see on the front panel LCD display of the receiver.

## **RECEIVER PORT CONFIGURATION:**

**For ABC Radio Networks' 24-hour music formats:**

**Press <Enter> on the Starguide keypad:**  
**Press ► until you get to PORT MENU, press <Enter>**  
**Press ► until you get to PORT C, press <Enter>**  
**Press <Enter> to select PROVIDER, press <Enter> again;**  
**Press ► until you get to ABC RADIO, press <Enter>**  
**Press ► until you get to SERVICE, press <Enter>**  
**Press ► until your 24-hour format is displayed, press <Enter>**

Please refer to the ABC Starguide channel chart for SERVICE information.

NOTE: 24-hour format affiliates should use the RELAY CARD in PORT B for their automation functions.

## **To receive ABC Radio Networks' News or ESPN Radio:**

- Press <Enter> on the Starguide keypad:
- Press ► until you get to PORT MENU, press <Enter>
- Press ► until you get to the desired PORT with an audio card, press <Enter>
- Press <Enter> to select PROVIDER, press <Enter> again;
- Press ► until you get to ABC NEWS, press <Enter>
- Press ► until you get to SERVICE, press <Enter>
- Press ► until your ABC News service or ESPN is displayed, press <Enter>

Please refer to the ABC Starguide channel chart for SERVICE information.

## **To receive ABC Talk programs, ABC Commercial Bulk Feeds, Dick Bartley, Larry Elder, Sean Hannity, or Bob Brinker, or any program syndicator contracted with ABC Satellite Services for distribution:**

- Press <Enter> on the Starguide keypad:
- Press ► until you get to PORT MENU, press <Enter>
- Press ► until you get to the desired PORT with an audio card, press <Enter>
- Press <Enter> to select PROVIDER, press <Enter> again;
- Press ► until you get to ABC NY, press <Enter>
- Press ► until you get to SERVICE, press <Enter>
- Press ► until the desired service is displayed, press <Enter>

## **To configure the Netcue/Data card:**

- Press <Enter> on the Starguide keypad:
- Press ► until you get to PORT MENU, press <Enter>
- Press ► until you get to PORT F, press <Enter>
- Press ► until you get to CARD TYPE, press <Enter>
- Press ► until you get to Ethernet Card, press <Enter>
- NOTE: If this Starguide III receiver also has an EDAS card, then you may need to set CARD TYPE to EDAS)
- Press ► to select YES to confirm, then press <Enter>
- Press ► until you get to PROVIDER, press <Enter>
- Press ► until you get to ABC NEWS, press <Enter>
- Press ► until you get to SERVICE, press <Enter>
- Press ► until the NETCUE/DATA is displayed, press <Enter>

Once your receiver has been configured, you may have to call ABC Technical Services to download the authorization commands from ABC. You will know the receiver has been authorized once the N/A to the right of the desired service(s) disappears.

The ABC Technical Services office is staffed Monday through Friday from 9:00am until 5:00pm ET. You will need to provide the entire receiver serial number located on the back of the Starguide receiver.

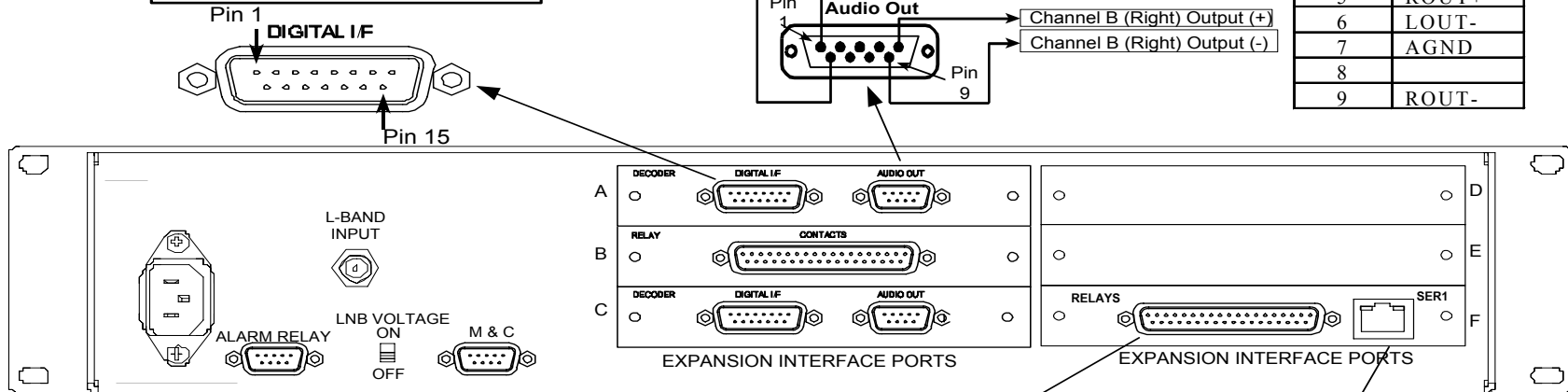
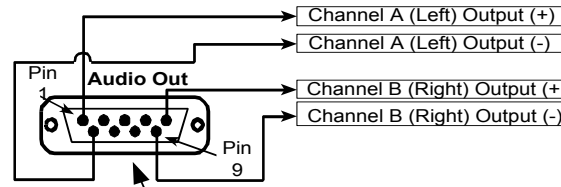
# STARGUIDE III RECEIVER BACKPLANE w/NETCUE

Relay	"A" Pin	"B" Pin
0	2	10
1	3	11
2	4	12
3	5	13

## AUDIO PORT PIN OUT

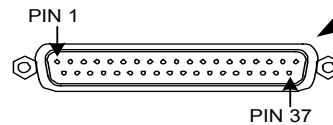
PIN	Function
1	LOUT+
2	AGND
3	
4	
5	ROUT+
6	LOUT-
7	AGND
8	
9	ROUT-

## Audio Output Wiring Detail



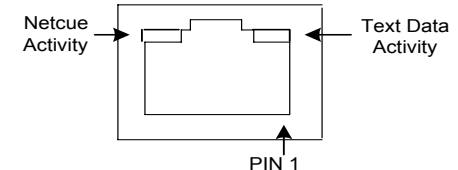
## NetCue Card 37-PIN Connector Pinout Chart

PIN	Function	PIN	Function
1	RLY0A	20	RLY0B
2	RLY1A	21	RLY1B
3	RLY2A	22	RLY2B
4	RLY3A	23	RLY3B
5		24	
6	RLY4A	25	RLY4B
7	RLY5A	26	RLY5B
8	RLY6A	27	RLY6B
9	RLY7A	28	RLY7B
10	NETQ GND		
11	RLY8A	29	RLY8B
12	RLY9A	30	RLY9B
13	RLY10A	31	RLY10B
14	RLY11A	32	RLY11B
15	NETQ TXD	33	
16	RLY12A	34	RLY12B
17	RLY13A	35	RLY13B
18	RLY14A	36	RLY14B
19	RLY15A	37	RLY15B



To connect to existing Netcue II box:  
 Netcue Card PIN 15 -> Netcue II Pin 3  
 Netcue Card PIN 10 -> Netcue II Pin 7  
 Change COM2 on Netcue Card to 1200 baud

**NOTE: The 16-function RELAY card in PORT B is used as an extension of the 4 built-in relays available on the AUDIO card beneath it in PORT C. DO NOT USE THIS CARD FOR NETCUES.**



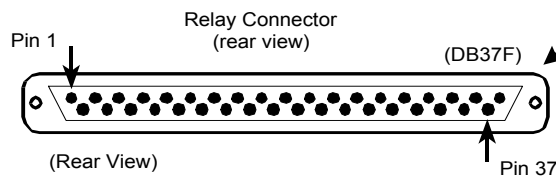
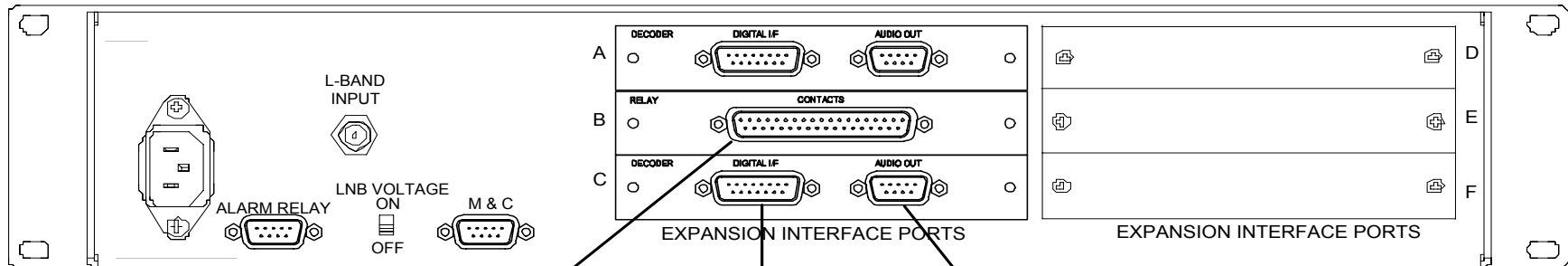
## RJ-45 SERIAL CONNECTION

Pin 1	RTS	Pin 5	GND
Pin 2		Pin 6	RXD
Pin 3	TXD	Pin 7	
Pin 4		Pin 8	CTS

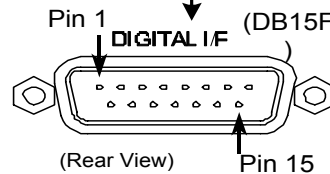
9600 BAUD NO PARITY,  
8 BITS, 1 STOP BIT

# Starguide III Receiver Backplane (NO NETCUE)

(rev 6/28/01)

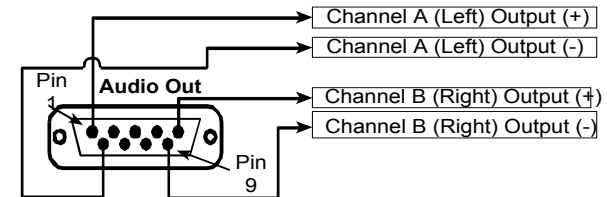


Function No.	SG Relay No.	PIN "A"	PIN "B"
1	0	1	20
2	1	2	21
3	2	3	22
4	3	4	23
5	4	6	25
6	5	7	26
7	6	8	27
8	7	9	28
9	8	11	29
10	9	12	30
11	10	13	31
12	11	14	32
13	12	16	34



RELAY	"A" Pin	"B" Pin
0	2	10
1	3	11
2	4	12
3	5	13

### Audio Output Wiring Detail



### AUDIO PORT PIN OUT

PIN	Function
1	LOUT+
2	AGND
3	
4	
5	ROUT+
6	LOUT-
7	AGND
8	
9	ROUT-

**IMPORTANT:** Do not wire your automation to "A" pins 5, 10 or 15 or to "B" pins 24 or 33 on the DB37 connector. These are receiver chassis grounds. You may wire the remaining B pins for common automation "closure to ground".