ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *StarGuide Digital Networks 91000-7078* at our website: *Click HERE*

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@citcomm.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.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.

DICK BARTLEY, GAC NIGHTS 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.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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: 0978000 kHz, press *<Enter>*
Enter the data rate: 09728000 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.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

To receive ABC programs 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*>

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

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.

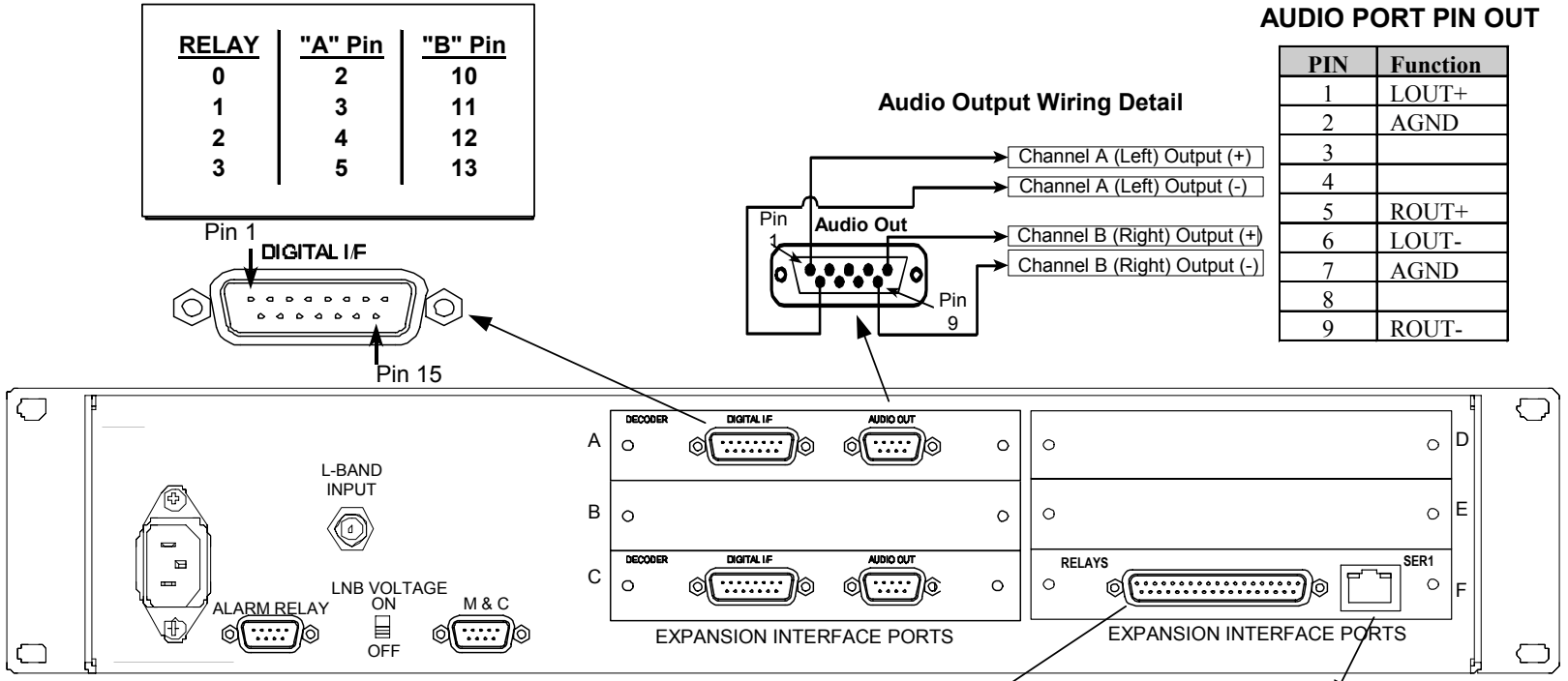
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

STARGUIDE III RECEIVER BACKPLANE with NETCUE

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

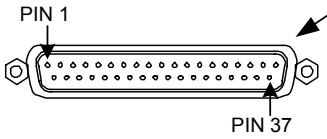
AUDIO PORT PIN OUT

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

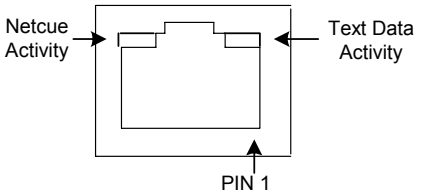


Netcue Card DB-37 Pinout Chart

Relay 00--------Pins 1 & 20
Relay 01--------Pins 2 & 21
Relay 02--------Pins 3 & 22
Relay 03--------Pins 4 & 23
Relay 04--------Pins 6 & 25
Relay 05--------Pins 7 & 26
Relay 06--------Pins 8 & 27
Relay 07--------Pins 9 & 28
Relay 08--------Pins 11 & 29
Relay 09--------Pins 12 & 30
Relay 10--------Pins 13 & 31
Relay 11--------Pins 14 & 32
Relay 12--------Pins 16 & 34
Relay 13--------Pins 17 & 35
Relay 14--------Pins 18 & 36
Relay 15--------Pins 19 & 37



IMPORTANT: DO NOT connect any wires to PINS 5, 10, 15, 24 or 33 on the Netcue Card DB-37. PINS 5, 10 and 24 are receiver chassis grounds. PINS 15 and 33 are serial connections for the Netcue data stream that were used with the SA-compatible ABC Netcue II boxes during the transition to the Starguide Netcue Card. Your relays will not function properly if you wire to these pins.



RJ-45 SERIAL CONNECTION

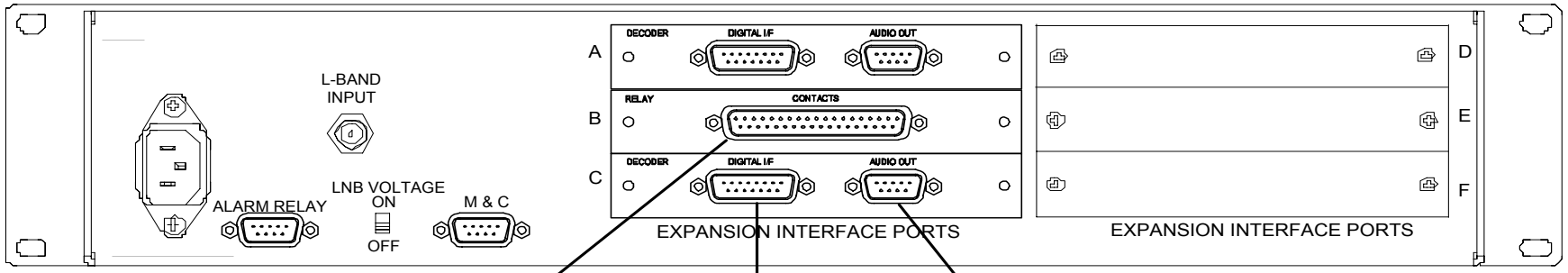
Pin 1	**RTS**	**Pin 5**	**GND**
Pin 2		**Pin 6**	**RXD**
Pin 3	**TXD**	**Pin 7**	
Pin 4		**Pin 8**	**CTS**

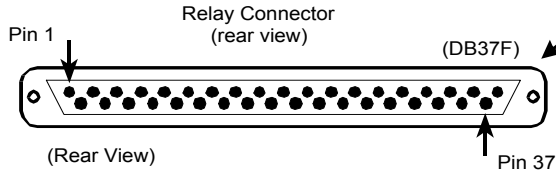
9600 BAUD NO PARITY, 8 BITS, 1 STOP BIT

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Starguide III Receiver
Backplane (NO NETCUE)

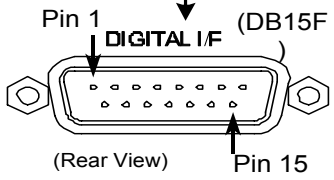
(rev 6/28/01)





RELAY PORT PIN OUT CHART

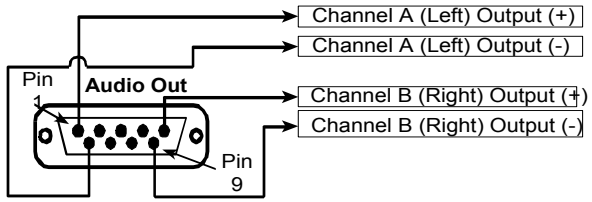
Function No.	SG Relay No.	PIN "A"	PIN "B"
1	0	1	20
2	1	2	21
3	2	3	22
4	3	4	23
5	4	6	25
6	5	7	26
7	6	8	27
8	7	9	28
9	8	11	29
10	9	12	30
11	10	13	31
12	11	14	32
13	12	16	34



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

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".

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-

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP