



Broadcast Devices, Inc.

***ATB-300 Audio Tool Box  
\*Digital/Analog Audio Switcher DA  
Audio Alarm Status Board Installation Guide***

**Operations Quick Start Guide**

**Broadcast Devices, Inc.**

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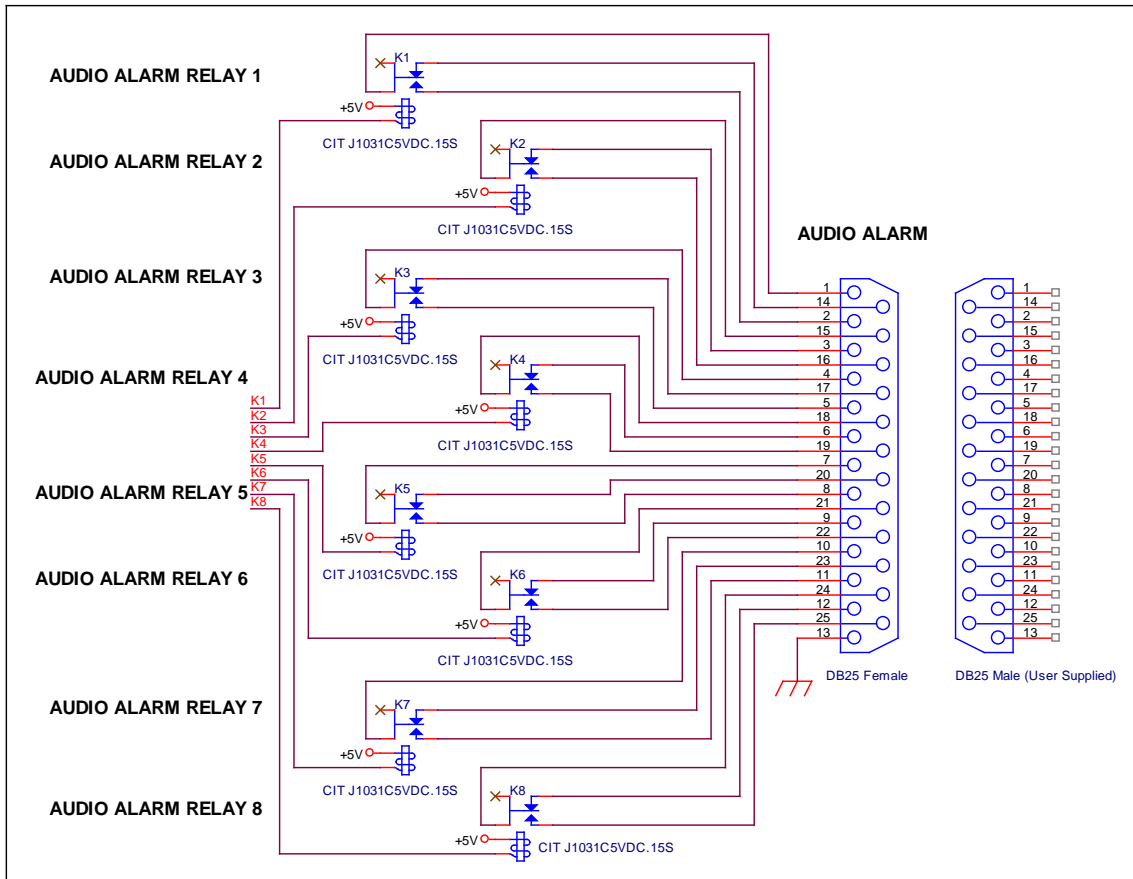
**World Wide Web: [www.Broadcast-Devices.com](http://www.Broadcast-Devices.com)**

**Rev. A 3/16**

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## ATB-300 Addendum – Loss of Audio Alarm Status Board



### Description - ATB-300 Audio Alarm

The ATB-300 provides audio failure alarm status contacts for each of the eight inputs. Each relay is held closed when audio is present. If audio is removed for at least five seconds the respective relay will de energize. If audio is restored for at least five seconds the respective channel relay will re energize. Relay 1-8 provide audio status for inputs 1-8 respectively.

Note that the connector for the alarm relay board is designated as “**GPIO 2**” on the rear of the ATB-300 chassis.

## Installation Instructions

1. Remove the top cover of the ATB-300 unit. Remove the rear cover screws, two on each side and three top front panel screws and put aside.
2. Remove the GPIO 2 hole cover.
3. Install the Alarm Status Relay board using the supplied hardware. Take care not to overtighten the hex jack screws see Fig. 1
4. Refer to the installation diagram below showing the ribbon cable connection see Fig. 2. Remove the existing 16 position ribbon cable already installed between LAN interface board J3 – IC2/SPI connector and P7 on the main DSP board. Install in its place the supplied cable noting red stripe pin one is to the left of the observer when viewing the unit from the front.
5. Before replacing the cover inspect your work and make certain the newly installed board and cable look the same as in the photograph. Apply power to the unit and note that the display indicates that it recognizes that the Alarm Status board has been installed see Fig. 3. Once this is done you can apply valid audio above threshold to each of the inputs to verify proper operation. Each relay should close after 5 seconds of valid audio being presented to the respective input. The relay will remain closed as long as valid audio is present for at least a five second interval. If audio is removed for at least five second the respective relay will open indicating a no audio condition.
6. Replace the cover on the unit and place back into service.

If you have any questions regarding these installation instructions please feel free to contact us at Broadcast Devices, Inc. (914) 737-5032 9A-5P +5 GMT or by email: [Customer.Service@broadcast-devices.com](mailto:Customer.Service@broadcast-devices.com)

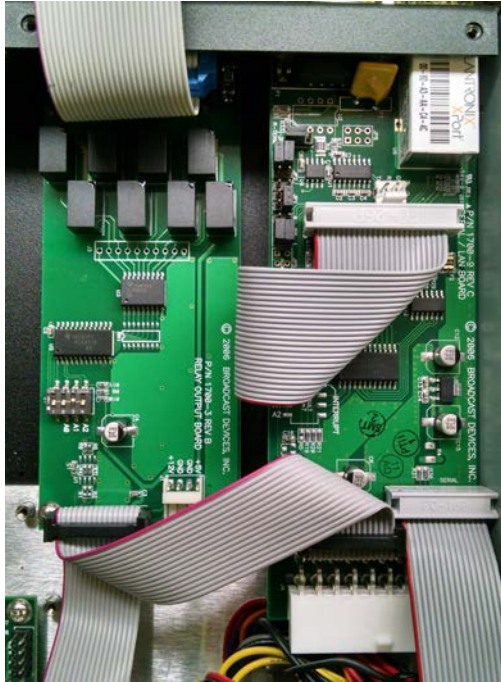


Fig. 1 Audio Alarm Status Board Installation

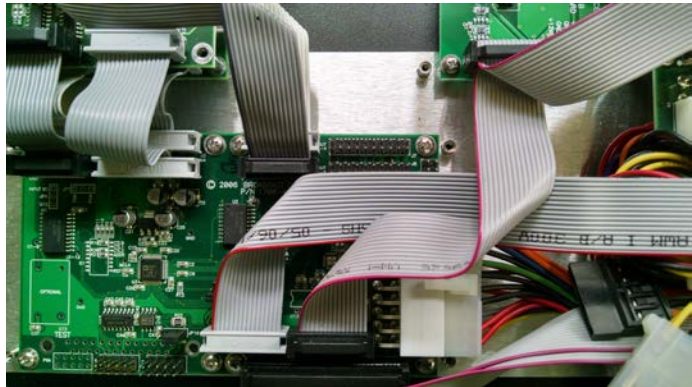


Fig. 2 16 Position Header Connection to DSP board



Fig. 3 Boot up Display message for a properly installed Alarm Status Board