

# Troubleshooting AGI3 communication issues

Use the following steps as method for troubleshooting communication issues with the AGI-3 antenna.

Verify that baud rate is set to 115200 baud and COM port is set to COM 1.

Check status of Minter LED's on AGI-3. (reference Figure 1)

- a. PWR should be lit solid green
- b. STAT should be flashing according to number of GPS and GLONASS satellites seen
- c. SYSFIX lights should be OFF
- d. RX/TX lights should be on only if RTK module is installed

Check the AGI-3 round bulkhead connection that is mounted or located on the rooftop. (reference Figure 2)

Check continuity of the RS 232 TX, RS 232 RX, and RS 232 ground wires from the AGI-3 to GX-45 terminal or the AGA4412 adapter harness.

- a. To check RS 232 TX-- from 40-pin connector on AGI-3 (reference Figure 3), check continuity from pin 35 to pin L on bulkhead connector and pin 4 on brown 12-pin Deutsch connector at GX-45
- b. To check RS 232 RX –from 40-pin connector on AGI-3, check continuity from pin 25 to pin M on bulkhead connector and pin 3 on brown 12-pin Deutsch connector at GX-45
- c. To check RS 232 GND—from 40-pin connector on AGI-3, check continuity from pin 17 to pin G on bulkhead connector and pin 1 on brown 12-pin Deutsch connector at GX-45.

On the left side of the connector the pins are 1 (bottom), 11 (2nd row), 21 (3rd row) and 31 (top). On the right side of the connector it should be 10 (bottom), 20 (2nd row), 30 (3rd row) and 40 (top).

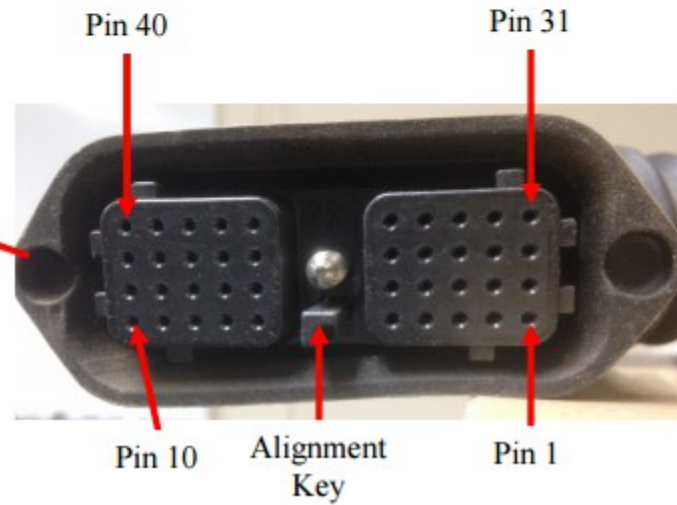
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**Figure 1 – Minter LEDs**



**Figure 2 – AGI-3 Round Bulkhead Connector**



**Figure 3 – AGI-3 Receiver 40-Pin Connector**

Continuity from this pin (pin 3) to  
pin M on bulkhead connector or  
pin 25 on AGI-3 connector

Continuity from this pin (pin 1) to  
pin G on bulkhead connector or  
pin 17 on AGI-3 connector

Continuity from this pin (pin 4) to  
pin L on bulkhead connector or  
pin 35 on AGI-3 connector

