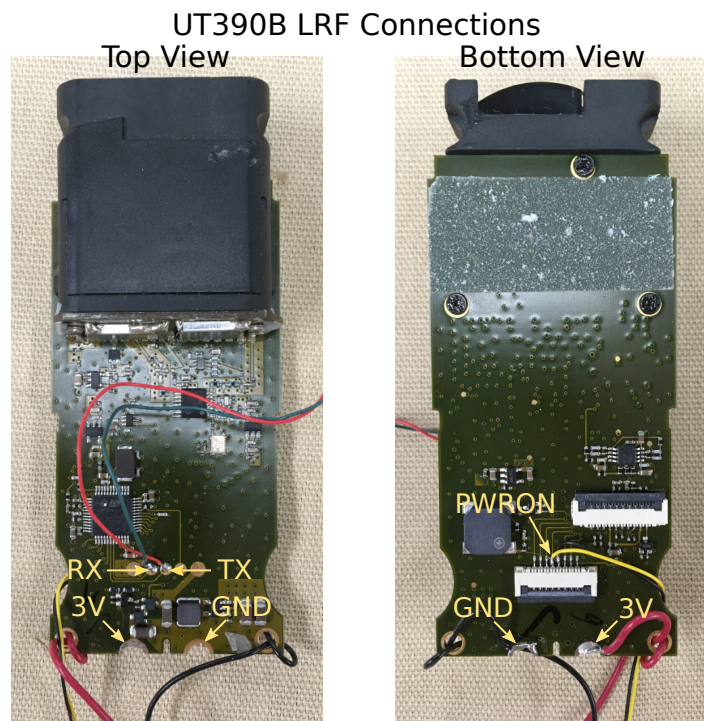# Caveatron Wiring Diagram
Main Body - Rev A
v. 2017-11-08

*NOTES

1. Numbers designate pin numbers on connector.
2. Pads for the connections are in various locations on the UT390B board as shown in the photo below. If the alternate JRT 100m laser rangefinder module is used, there is no PWRON pin and the photo below shows the pad locations.
3. Must cut trace that joins the VBATT on the JST connector to the VCC pin to isolate the terminals. On the rear of the board, whent eh words "Fuel Gauge" are at the top, it is the trace that runs from the 12 o'clock to the 3 o'clock position.
4. Requires CR2032 battery to be installed to power clock when system is off.
5. Use right angle locking male headers to connect to the appropriate female headers. The LCD adapter shield is installed on top of the Arduino Due, so the right angle headers will project out to the side from under the LCD adapter shield.
6. Use pins 1 and 2 of the 30 pin header on the LCD adapter shield for 3V3 and GND, respectively.
7. Compass module is sensitive to wires and voltages, so route wiring as far away from the component as possible and be sure attached wires head directly away from the compass module.
8. Adjustable output voltage must be set to 3.0V.
9. Use JST connector labeled "LOAD". The JST connector labelled "BATT" is identical and may need to be removed to avoid interference with Arduino Due board since it goes underneath the Due.

UT390B LRF Connections

Top View

Bottom View

100m JRT LRF Connections
Top View