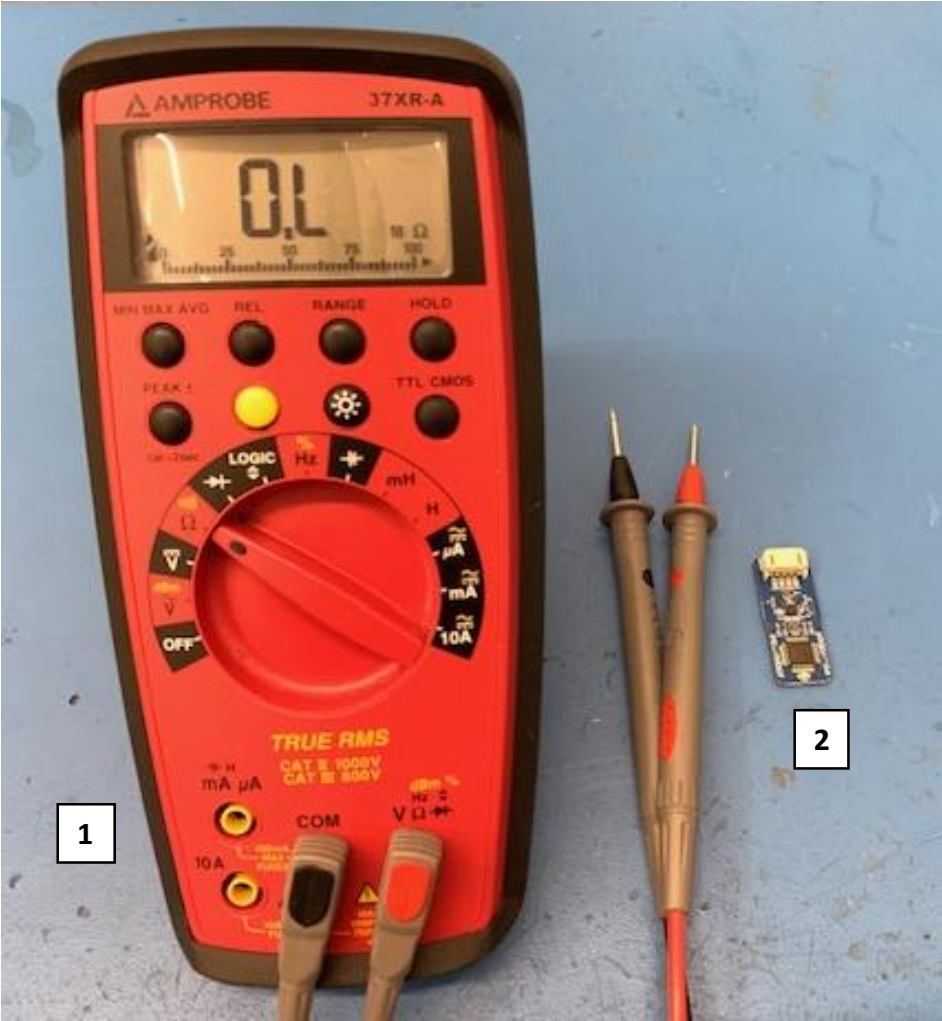


E-43 Test Procedures

E-43 IMU Short Circuit Test



PARTS & TOOLS

#	Part #	Name	Qty
1	N/A	Ohmmeter	1
2	E-43	IMU	1

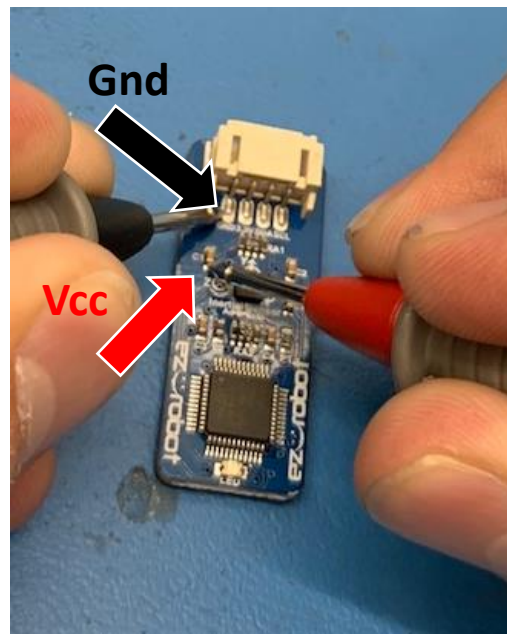
Test Summary: This is a test for the solder joints on the E-43 IMU and must be done for every unit

IMPORTANT

This test must be done before any power is applied to the E-43



Step 1. Place Multimeter on the Ohms setting

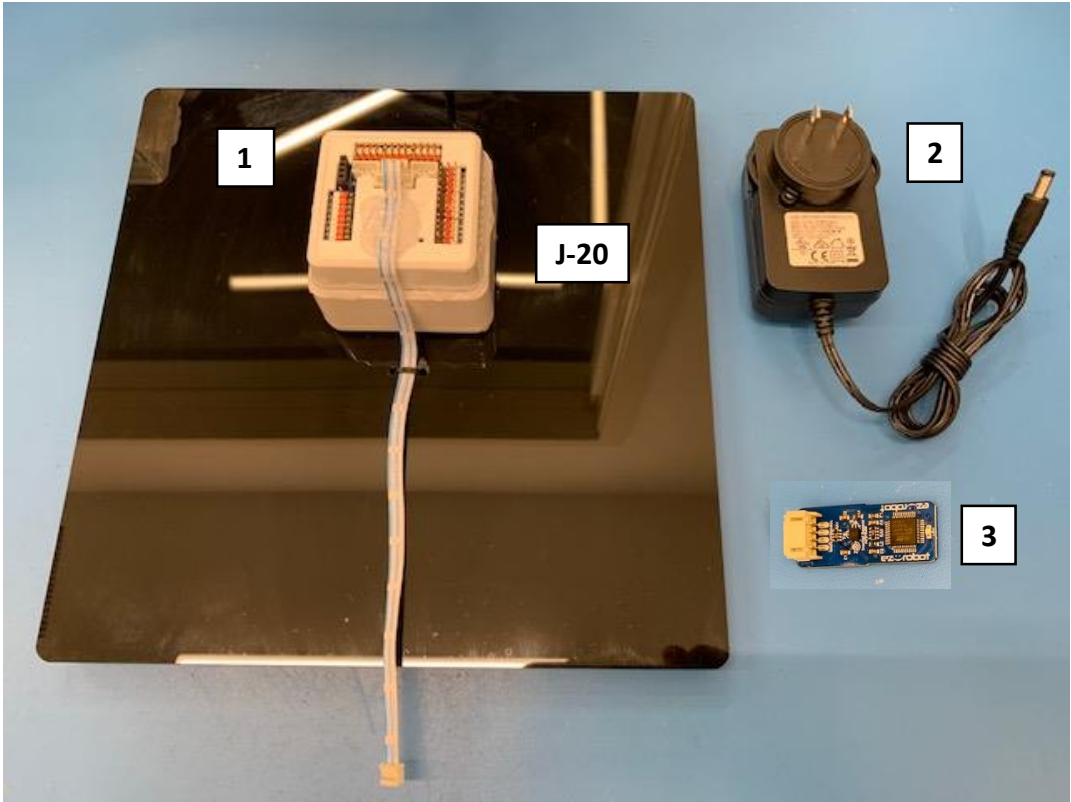


Step 2. Please check Vcc to Gnd. The resistance should be in the Mega-ohm range. The E-43 Short Circuit Test is now complete

IMPORTANT If the ohmmeter reads near to 0Ω the test has failed.

E-43 Test Procedures

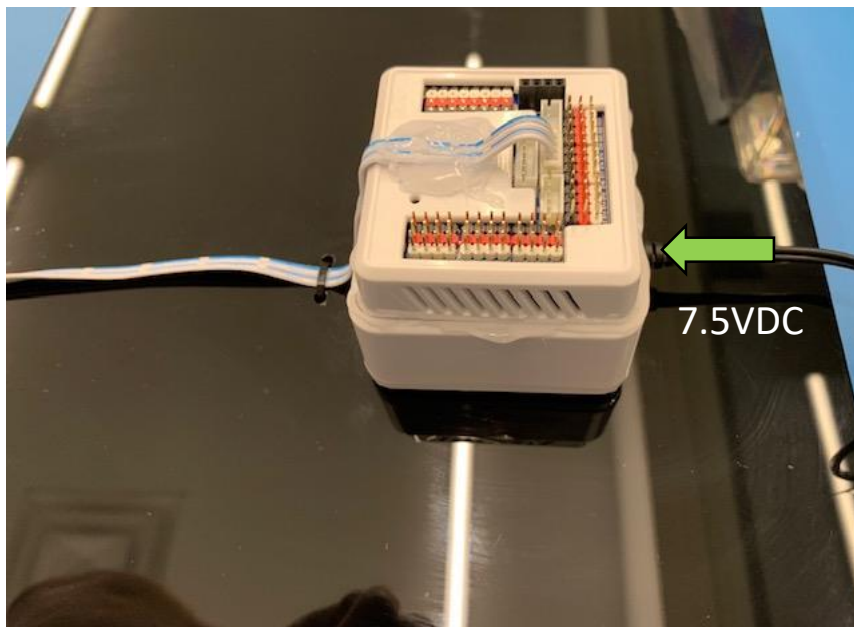
E-43 IMU Power ON Self-Test



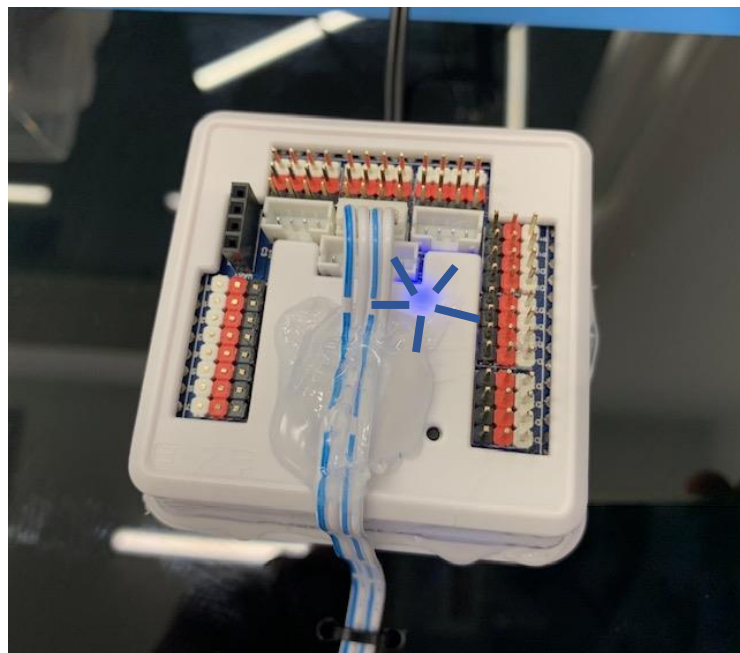
PARTS & TOOLS

#	Part #	Name	Qty
1	J-20	Calibration Jig	1
2	N/A	5-12VDC Power supply	1
3	E-43	IMU	1

Test Summary: This is a test for the solder joints on the E-43 IMU and must be done for every unit

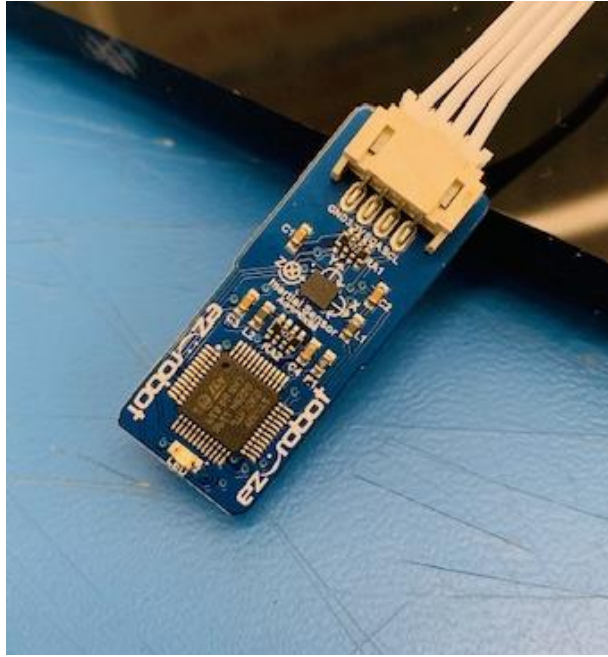
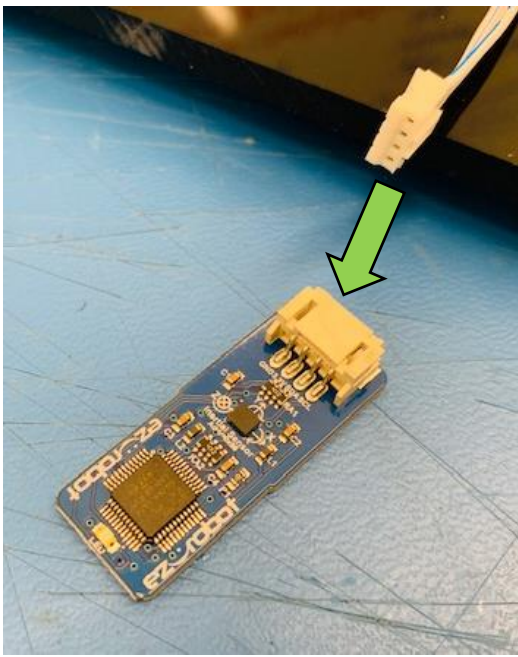


Step 1. Plug the 5-12VDC power supply into mains power then plug the barrel plug into J-20

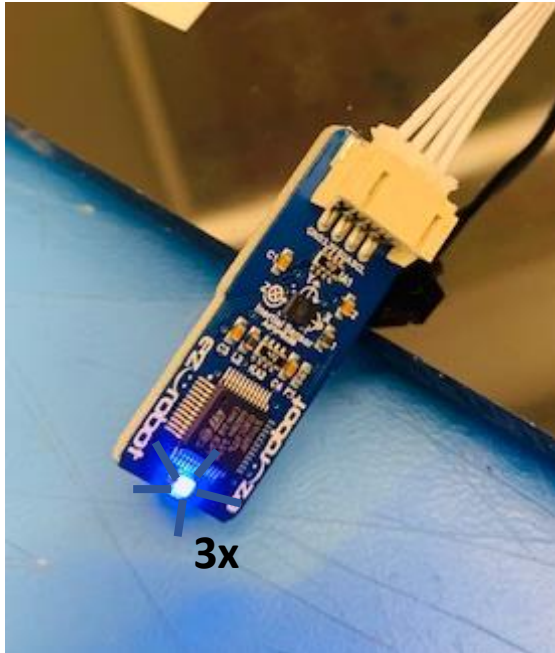


IMPORTANT

Ensure that J-20 is powered on, the RGB LED will flash blue and the speaker will make a boot up sound

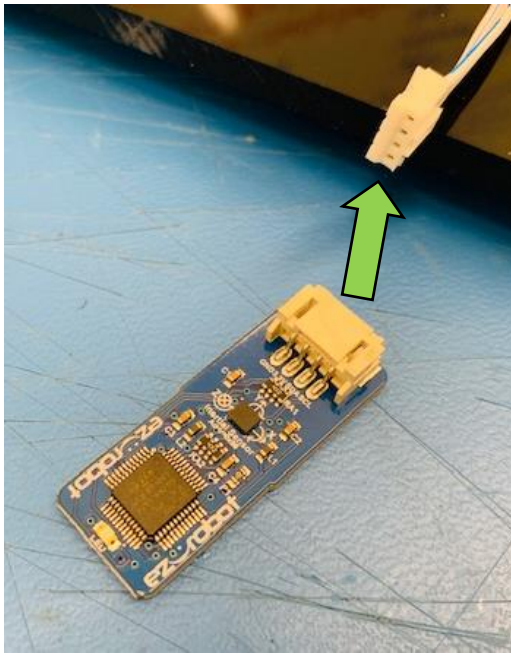


Step 2. Plug the TP-101 cable from J-21 into E-43



Step 3. Wait 1 second for the E-43 boot, the LED will blink 3 times and then turn **OFF**

IMPORTANT If the LED stays **ON** or if the LED doesn't blink at all the test has **failed**, the LSM6DS sensor may need to be reflowed



Step 4. Remove E-43 from TP-101. The E-43 Power ON Self-Test is now complete