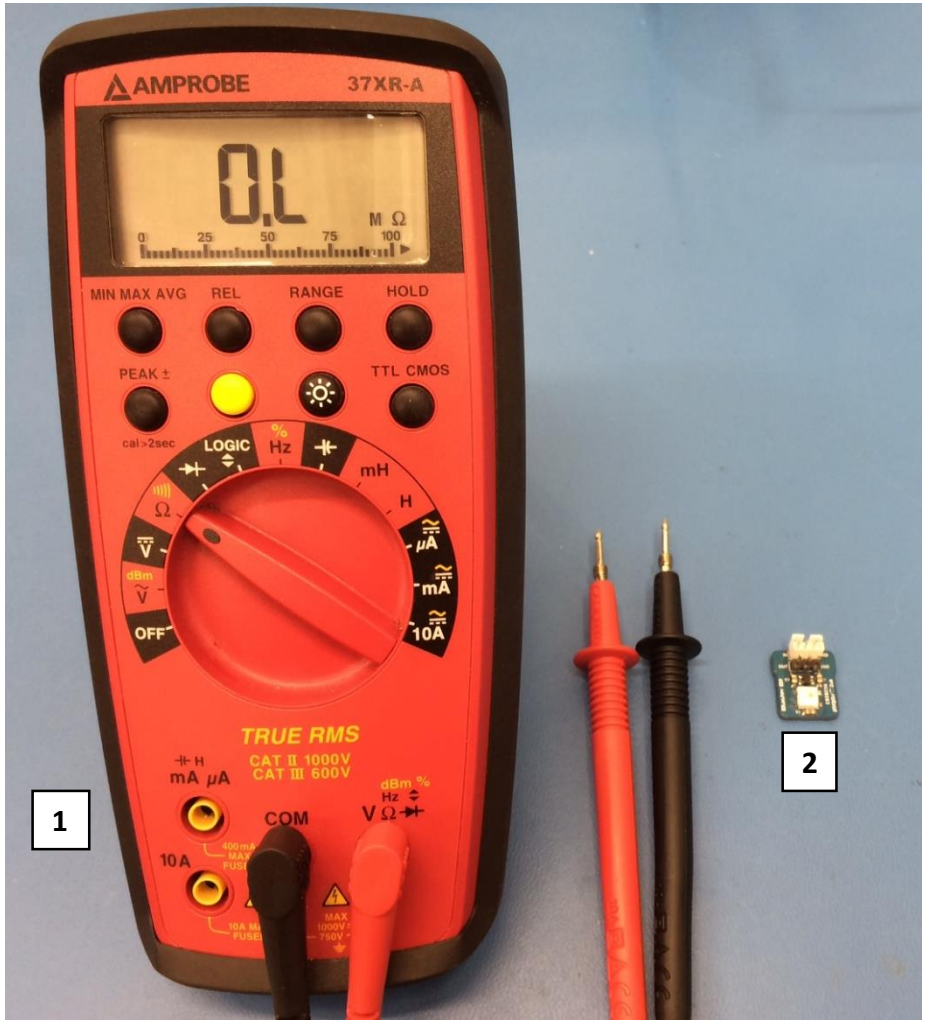
SYNTHIAM

E-22 Test Procedures

E-22 Blaster Bit Short Circuit Test



PARTS & TOOLS

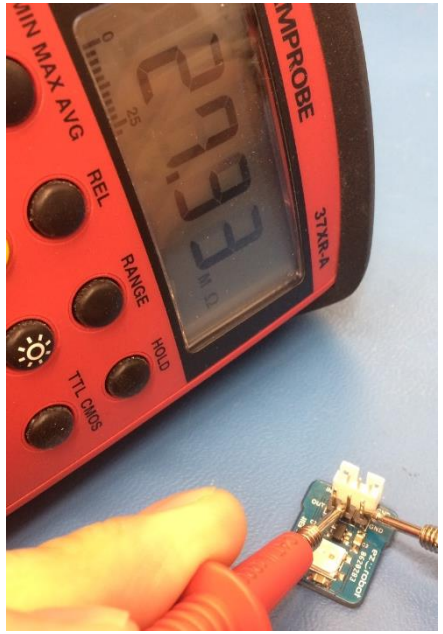
#	Part #	Name	Qty
1	N/A	Ohmmeter	1
2	E-22	Blaster Bit	1

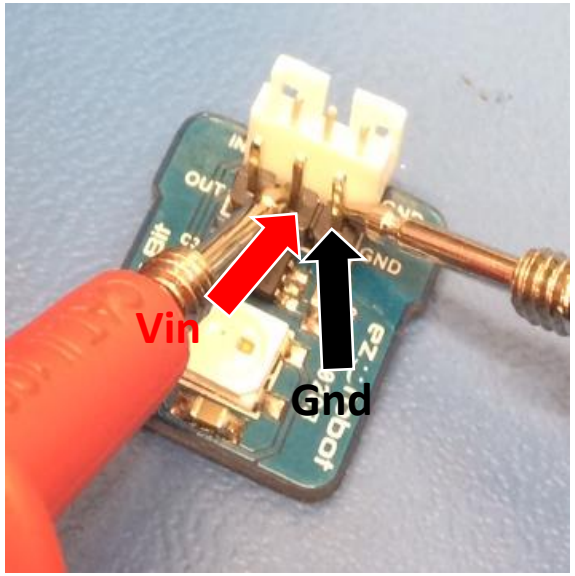
Test Summary: This is a test for the solder joints on the E-22 Blaster Bit and must be done for every unit

IMPORTANT

This test must be done before any power is applied to the E-22

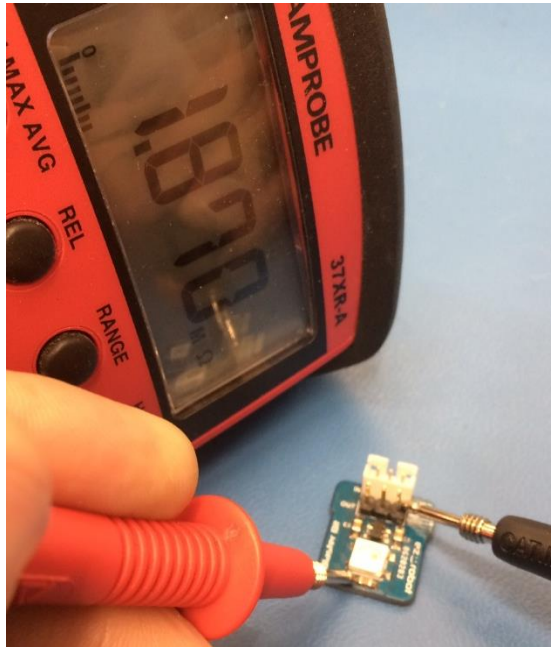
Step 1. Place Multimeter on the Ohms setting

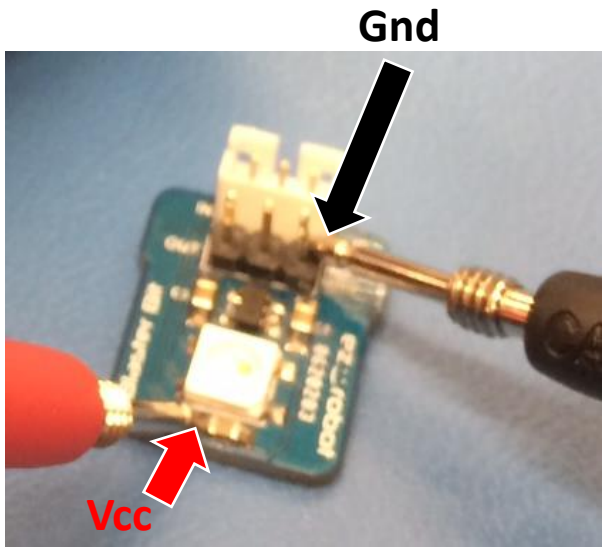




Step 2. Please check Vin to Gnd. The resistance should be in the Megaohm range

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





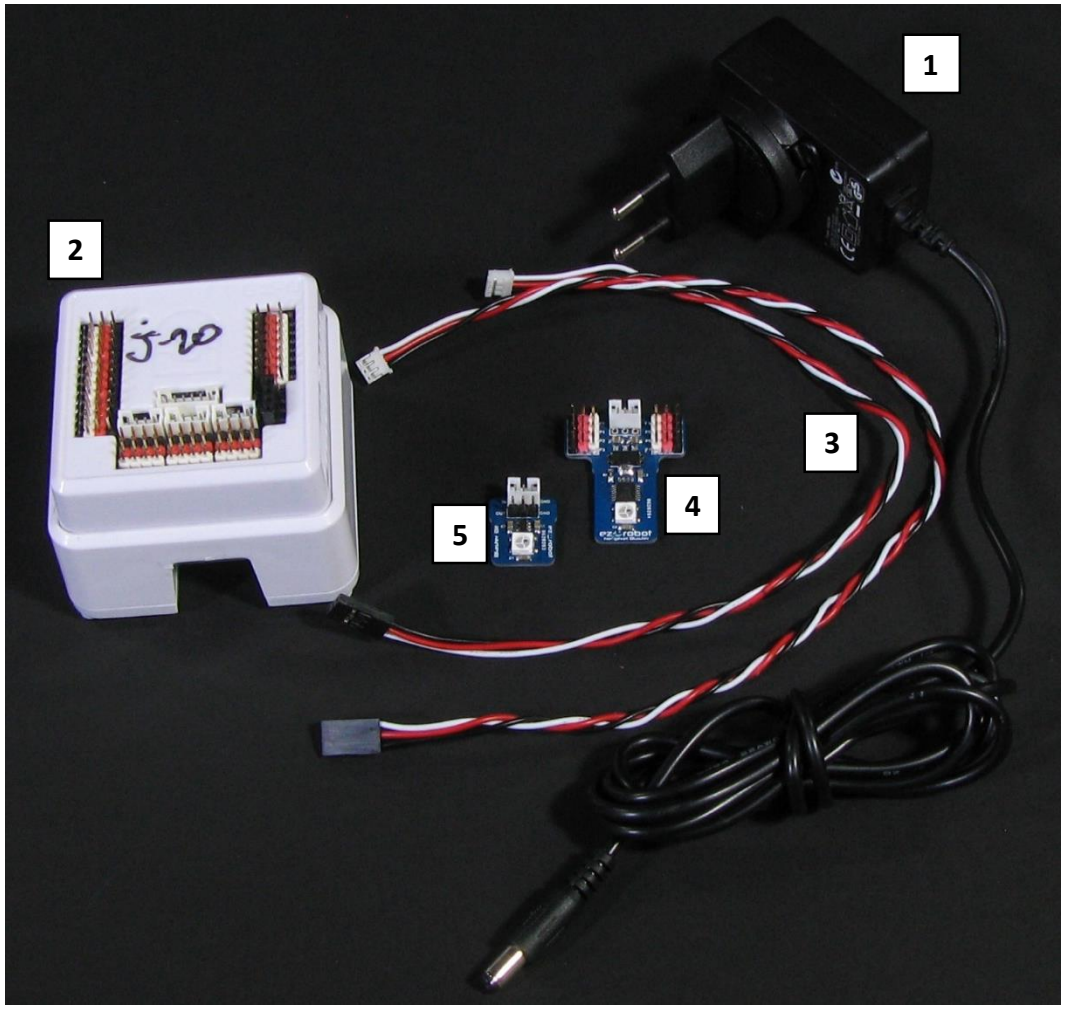
Step 3. Please check Vcc to Gnd. The resistance should be in the Megaohm range. The E-22 Short Circuit Test is now complete

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

SYNTHIAM

E-22 Test Procedures

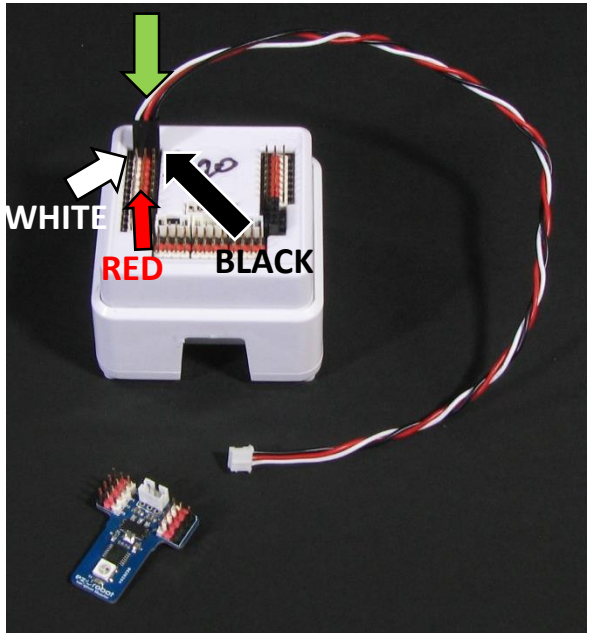
E-22 Blaster Bit Power ON Self-Test

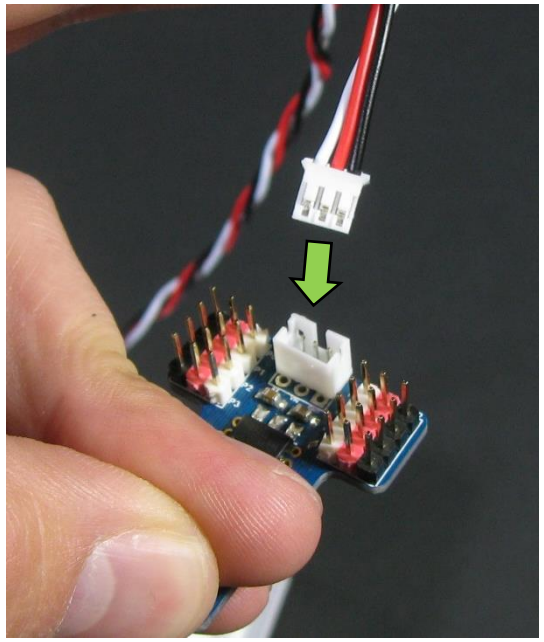


PARTS & TOOLS

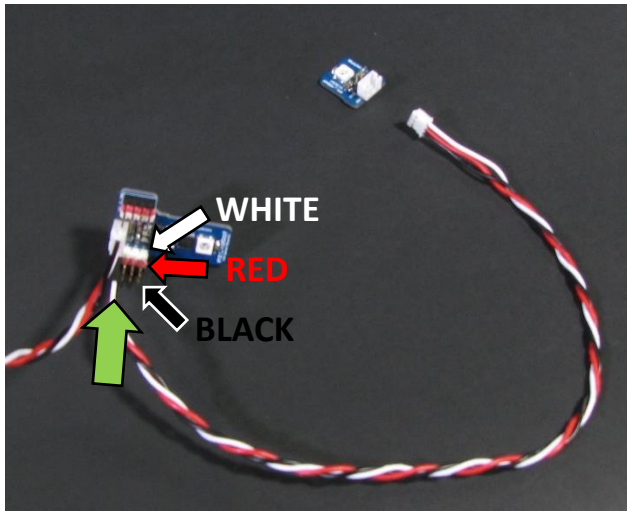
#	Part #	Name	Qty
1	N/A	5-12VDC Power supply	1
2	J-20	Calibration Jig	1
3	TP-110	DuPont to JST 3-pin cable	2
4	E-21	Neopixel Blaster	1
5	E-22	Blaster Bit	1

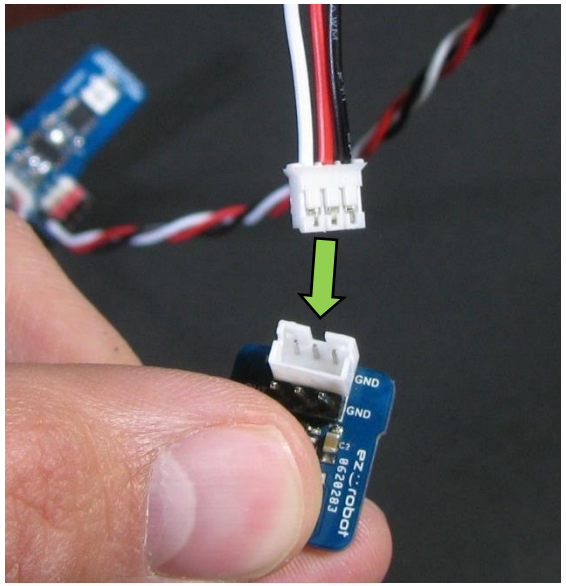
Test Summary: This is a test for the solder joints on the E-22 Blaster Bit and must be done for every unit



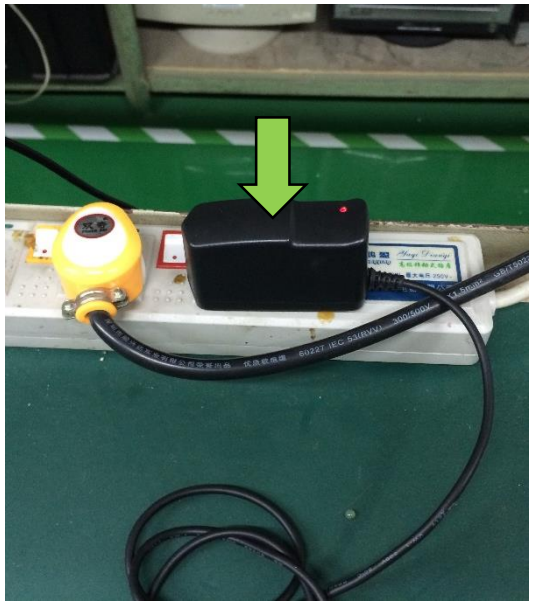


Step 1. Plug TP-110 with one side onto J-20, in the orientation shown, and the JST connector side onto E-21



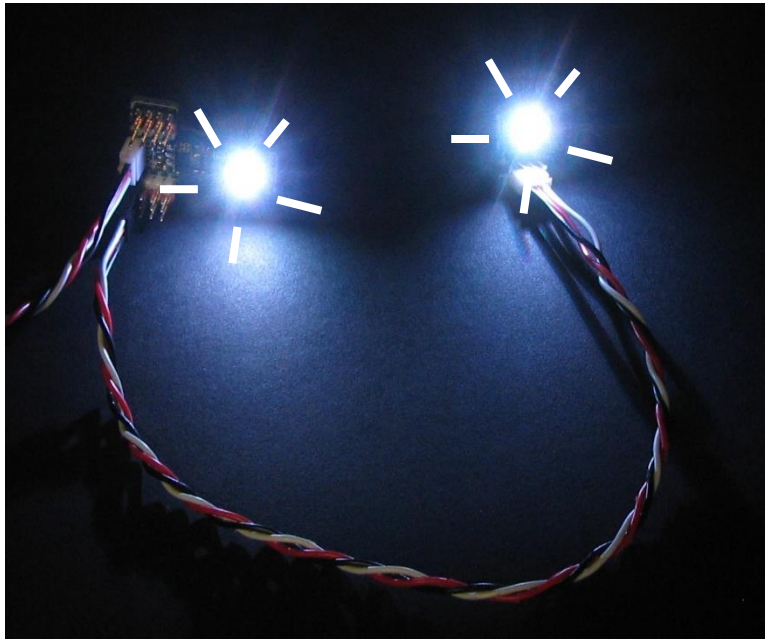


Step 2. Plug the second TP-110 onto E-21, in the orientation shown, and the JST connector side onto E-22



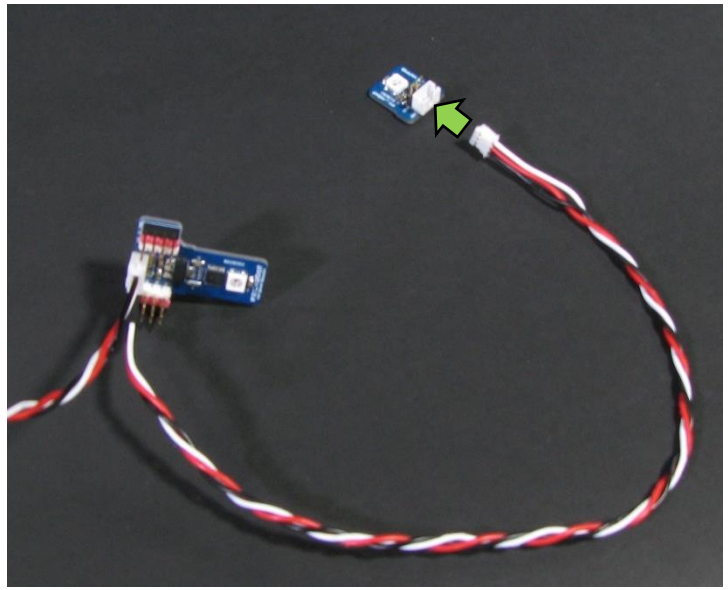
Step 3. Plug the 5-12VDC power supply into mains power then plug the barrel plug into J-20

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



Step 4. The LED on E-21 and E-22 should now flash white very quickly and then turn off

IMPORTANT If the E-22 LED does not flash white it has failed the Power ON test



Step 5. Remove E-22 from TP-110. The E-22 Power ON Self-Test is now complete