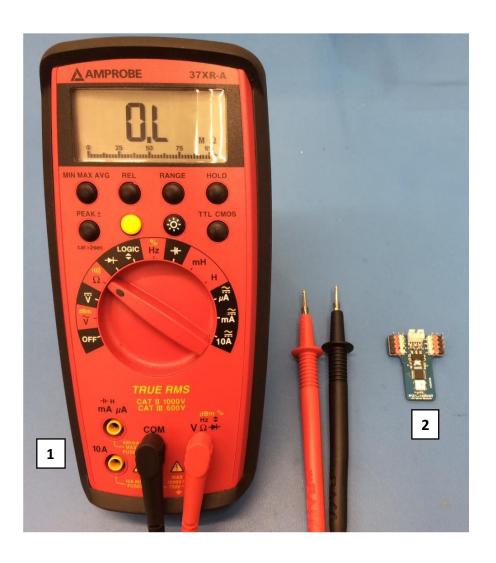
SYNTHIAM

E-21 Test Procedures

E-21 NeoPixel Blaster Short Circuit Test



PARTS & TOOLS

#	Part #	Name	Qty
1	N/A	Ohmmeter	1
2	E-21	Neopixel Blaster	1

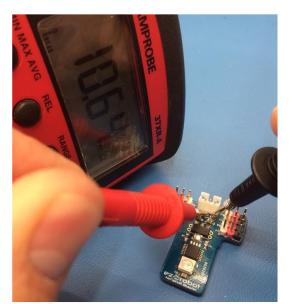
Test Summary: This is a test for the solder joints on the E-21 NeoPixel Blaster and must be done for every unit

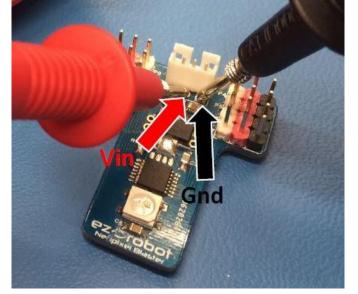
IMPORTANT

This test must be done before any power is applied to the E-21



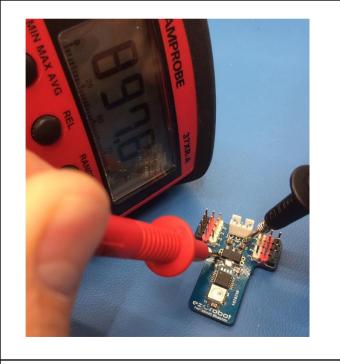
Step 1. Place Multimeter on the Ohms setting

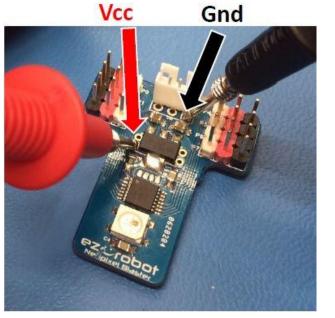




Step 2. Please check Vin to Gnd. The resistance should be in the Mega-ohm range

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





Step 3. Please check Vcc to Gnd. The resistance should be over 800ohms. The E-21 Short Circuit Test is now complete

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

SYNTHIAM

E-21 Test Procedures

E-21 NeoPixel Blaster Power ON Self-Test

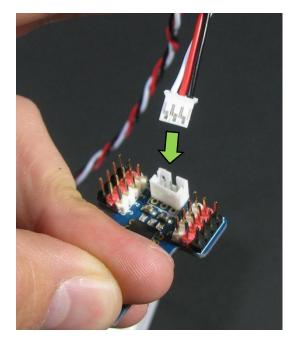


Parts & Tools

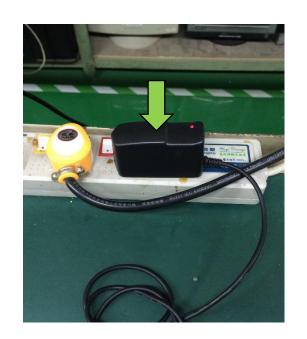
#	Part #	Name	Qty
1	N/A	5-12VDC Power supply	1
2	J-20	Calibration Jig	1
3	TP-110	DuPont to JST 3-pin cable	1
4	E-21	Neopixel Blaster	1

Test Summary: This is a test for the solder joints on the E-21 NeoPixel Blaster and must be done for every unit





Step 1. Plug TP-110 with one side onto J-20 and the other side onto E-21 in the wire color order shown

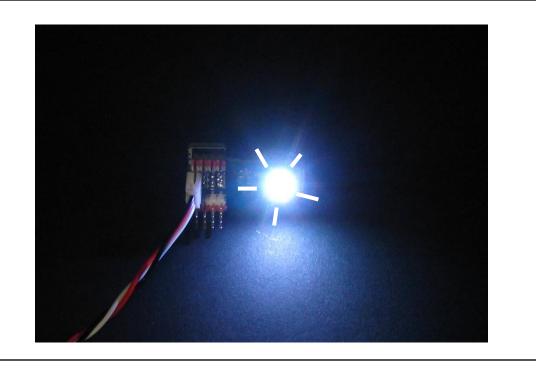




Step 2. Plug the 5-12VDC power supply into mains power then plug the barrel plug into J-20

IMPORTANT

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



Step 3. The LED on E-21 should now flash white very quickly and then turn off

IMPORTANT If the LED does not flash E-21 has failed the Power ON test



Step 4. Remove E-21 from TP-110. The E-21 Power ON Self-Test is now complete