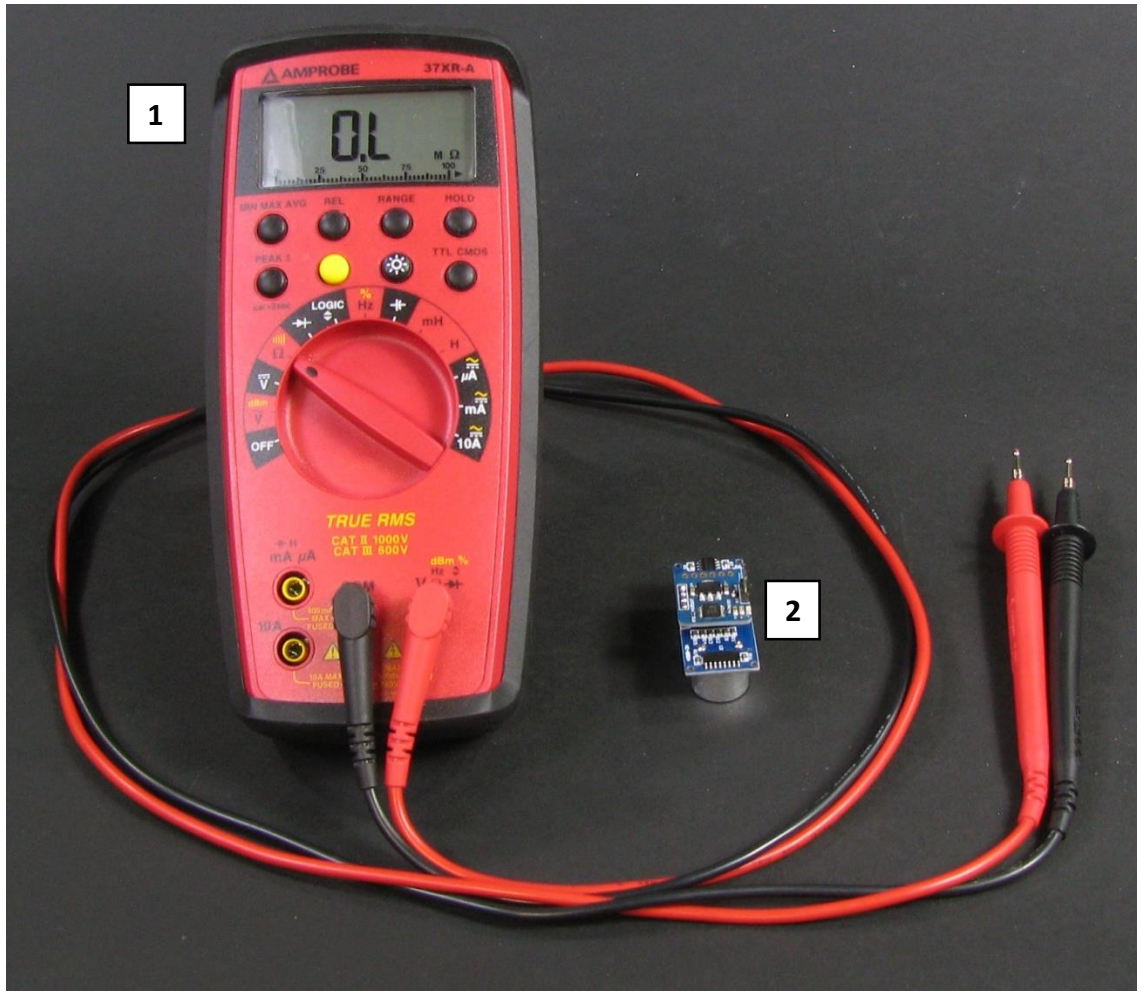
SYNTHIAM

E-18 Test Procedures

E-18 Ultrasonic Sensor Short Circuit Test



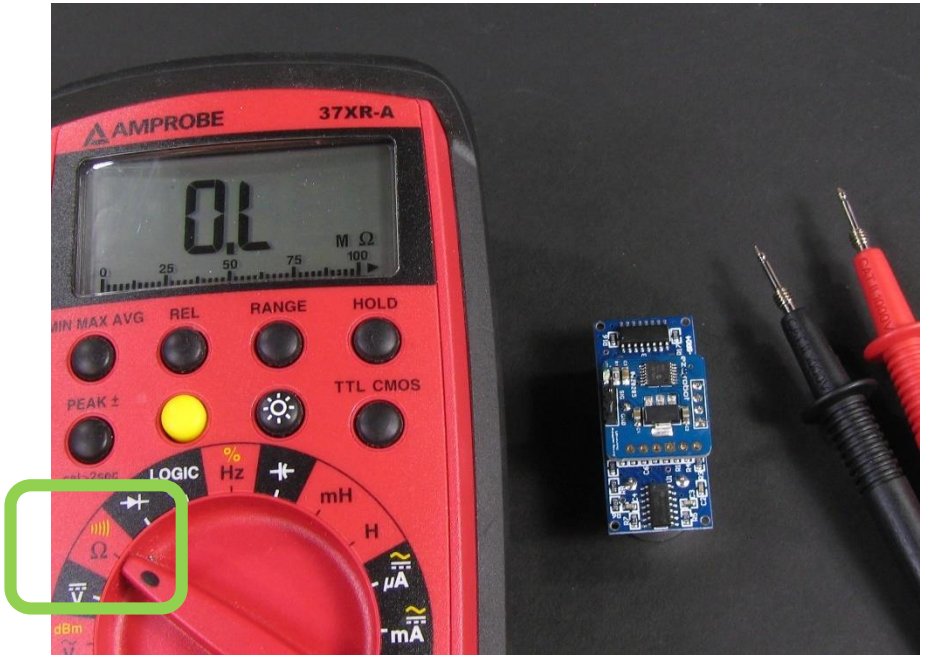
PARTS & TOOLS

#	Part #	Name	Qty
1	N/A	Ohmmeter	1
2	E-18	Ultrasonic Sensor	1

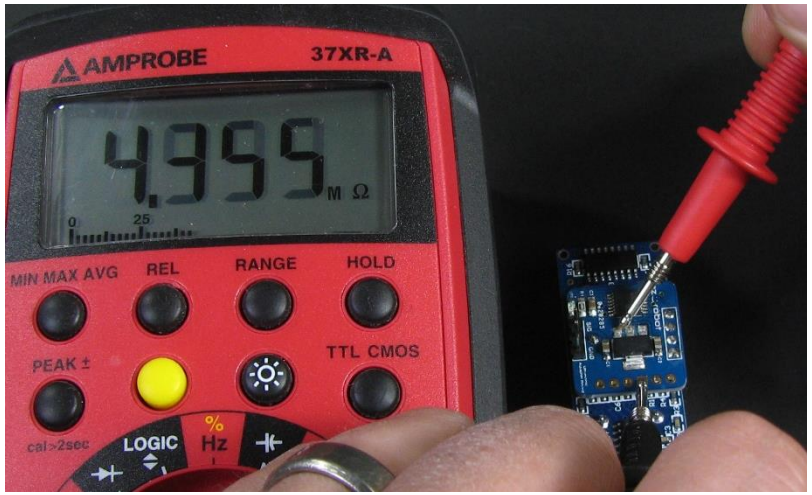
Test Summary: This is a test for the solder joints on the E-18 Ultrasonic Sensor and must be done for every unit

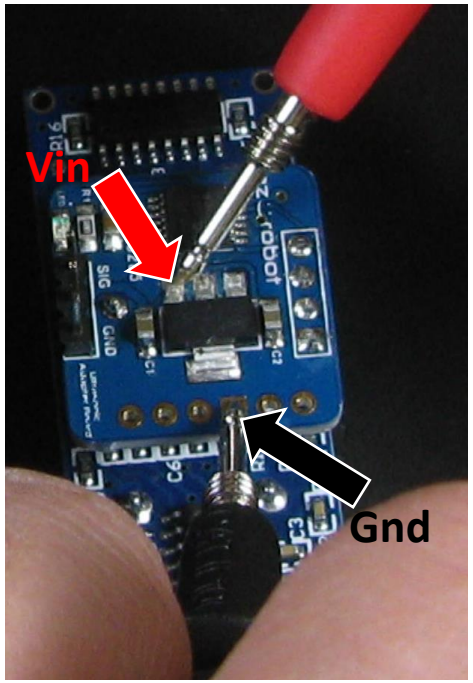
IMPORTANT

This test must be done before any power is applied to the E-18



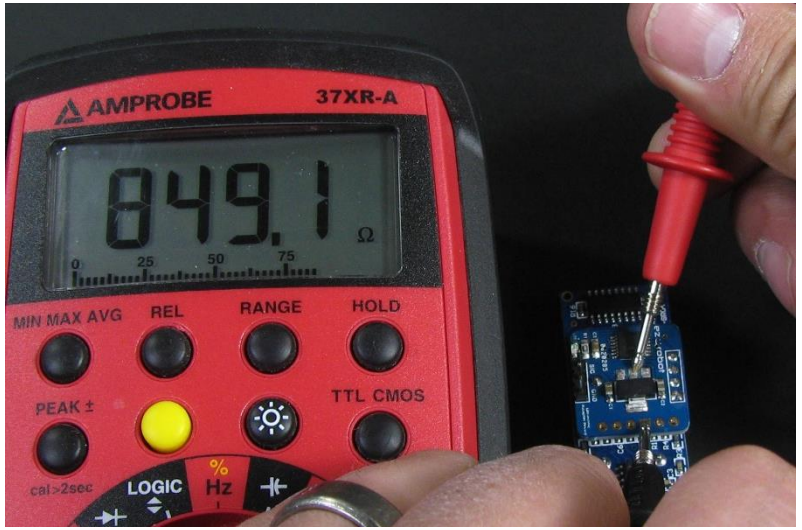
Step 1. Place Multimeter on Ohms setting

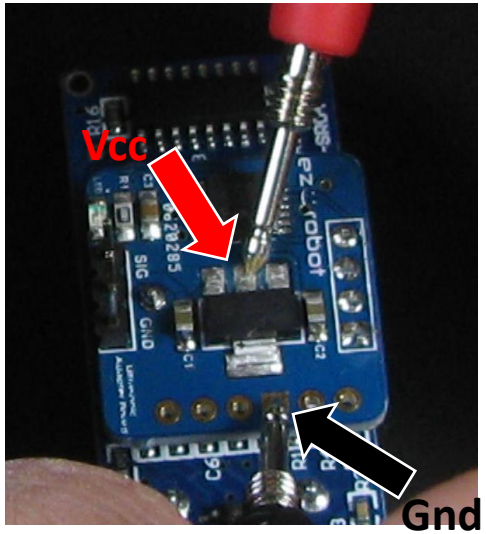




Step 2. Please check Vin to Gnd. The resistance should fluctuate in the Megaohm range

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





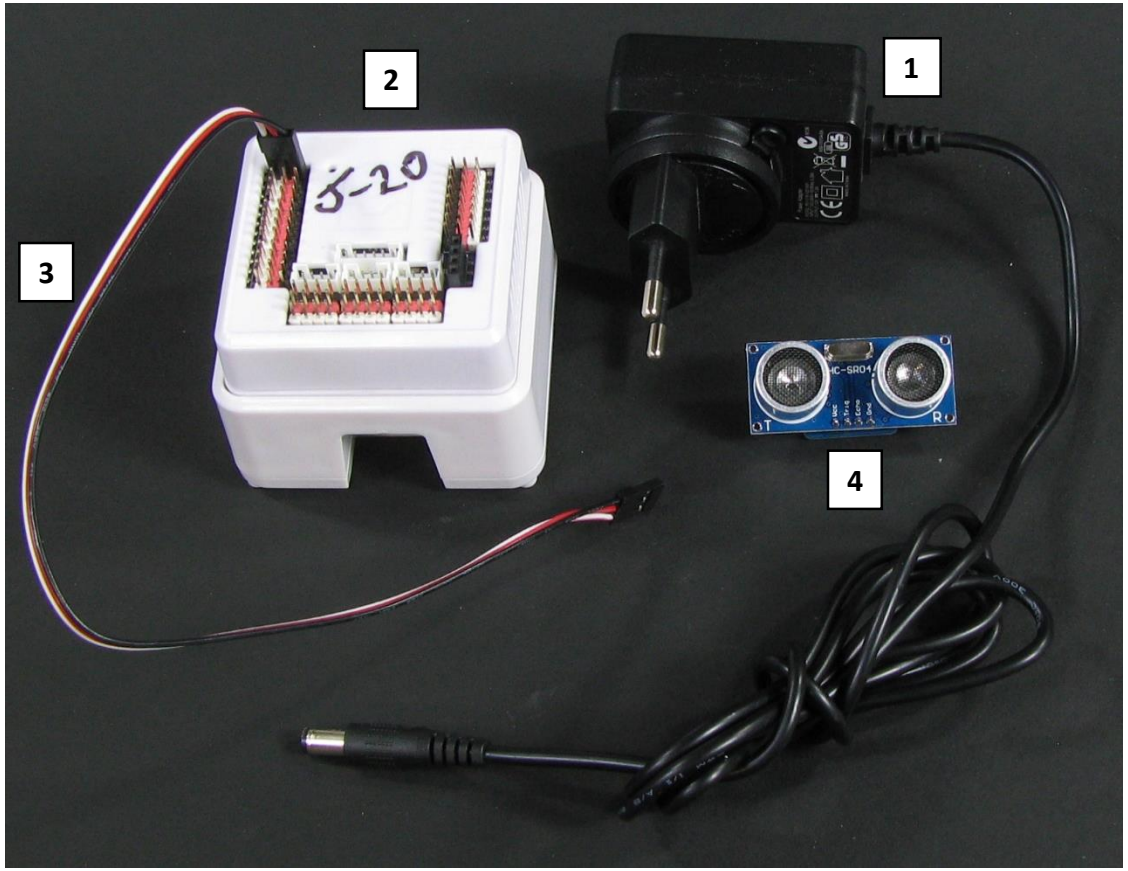
Step 3. Please check Vcc to Gnd. The resistance should be in the 800 ohm range. The E-18 Short Circuit Test is now complete

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

SYNTHIAM

E-18 Test Procedures

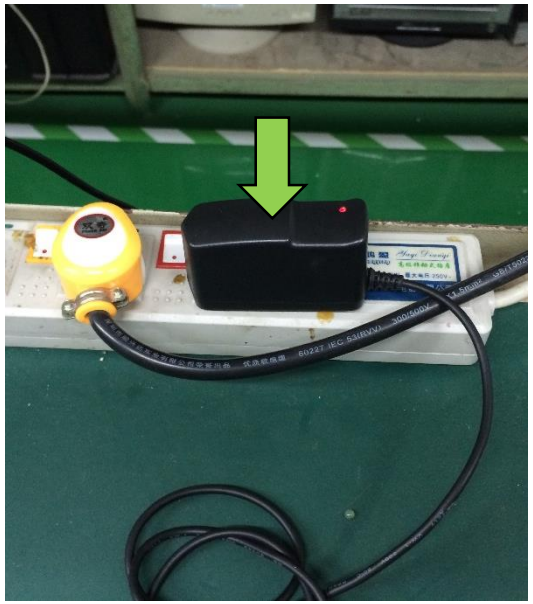
E-18 Ultrasonic Sensor Power ON Self-Test

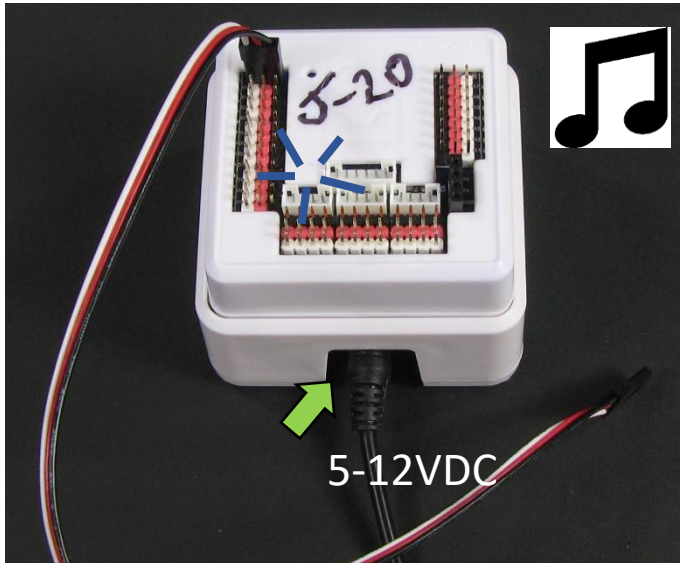


PARTS & TOOLS

#	Part #	Name	Qty
1	N/A	5-12VDC Power supply	1
2	J-20	Calibration Jig	1
3	TP-111	DuPont 2 x 3-pin cable	1
4	E-18	Ultrasonic Sensor	1

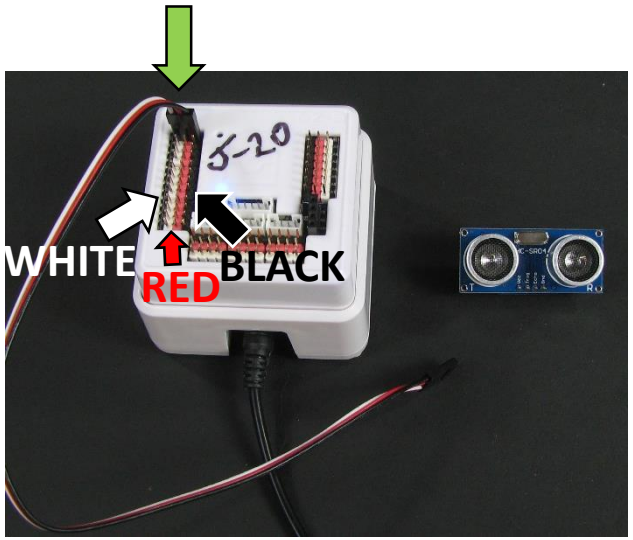
Test Summary: This is a test for the solder joints on the E-18 Ultrasonic Sensor and must be done for every unit

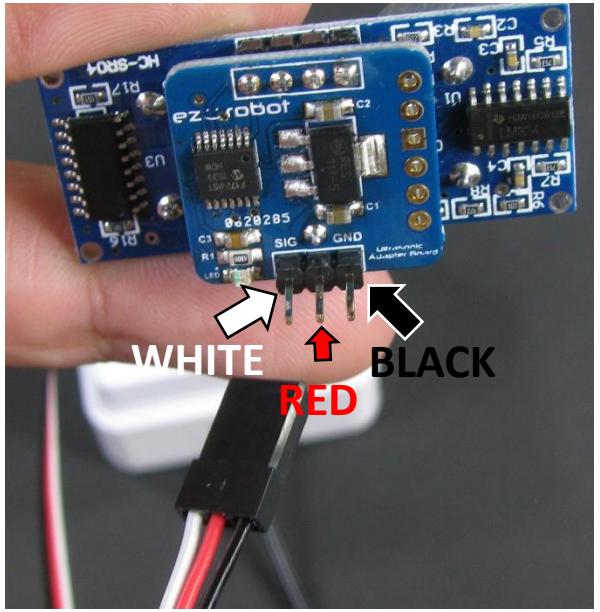




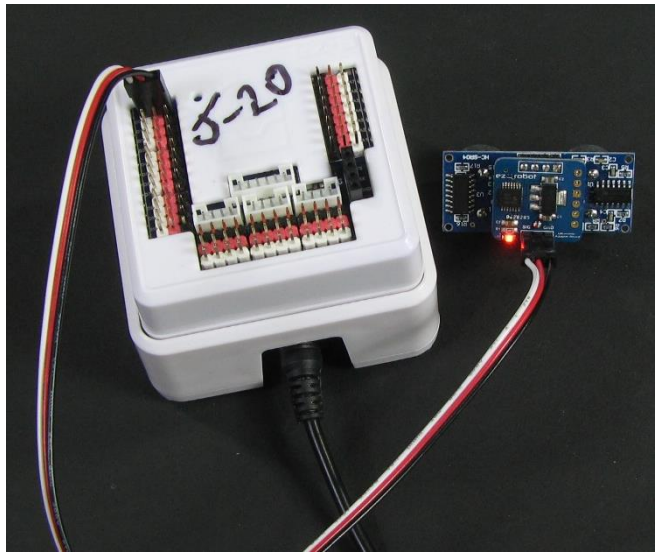
Step 1. Plug the 5-12VDC power supply into mains power then plug the barrel plug into J-20

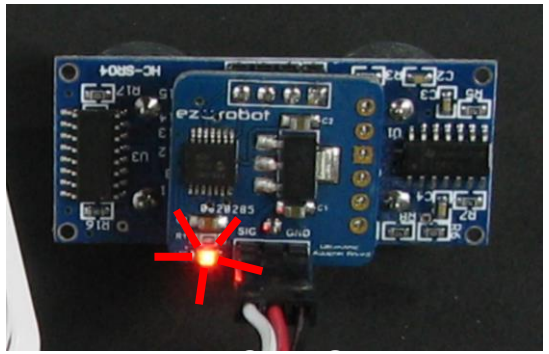
IMPORTANT
Ensure that J-20 is powered on, the RGB LED will flash blue and the speaker will make a boot up sound





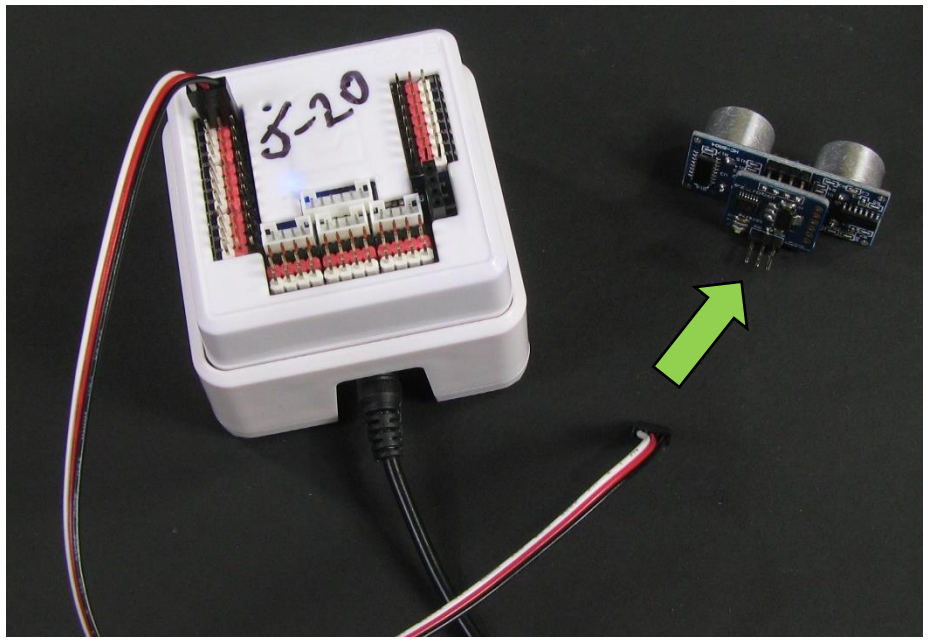
Step 2. Plug TP-111 with one side onto J-20 and the other side onto E-18 in the wire color order shown





Step 3. The Red LED on E-18 should now flash

IMPORTANT If the LED does not turn on, or does not flash, E-18 has failed the Power ON test



Step 4. Remove E-18 from TP-111. The E-18 Power ON Self-test is now complete