

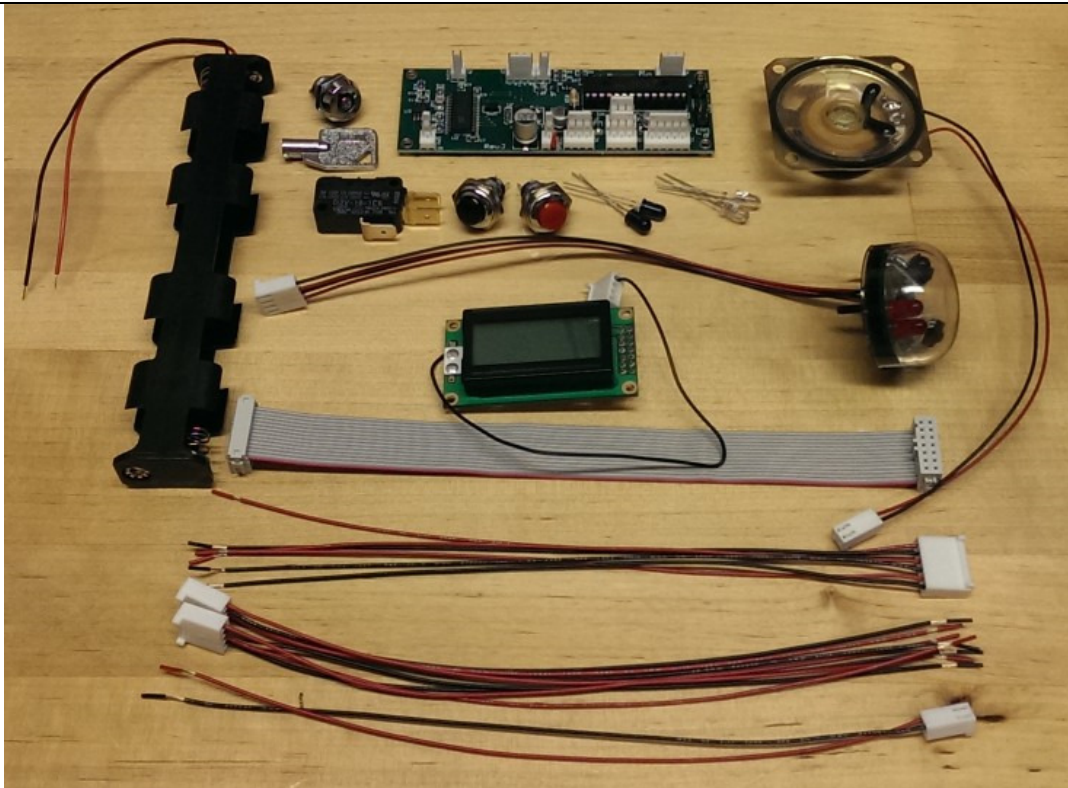
MilesTag CORE Laser Tag System

Wiring Reference for the CORE (Rev J) Bundle Starter Kit

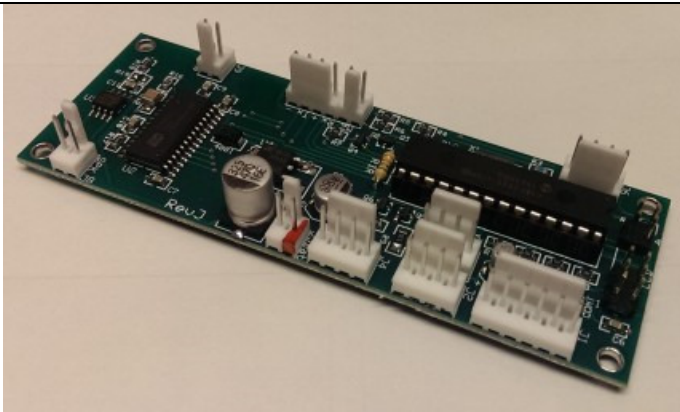
This document last updated: 8 June 2014

This guide covers basic wiring of the components included in the MilesTag CORE Starter Kit (CORE Bundle). The kit includes the following components (subject to change):

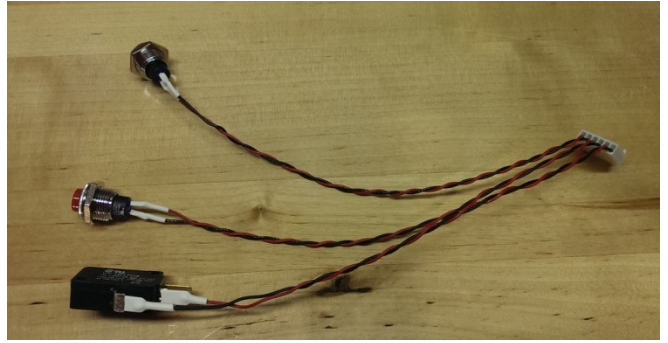
1 each: (CORE-MOD)	MilesTag CORE module, assembled and tested mainboard
1 each: (LCD-MOD)	LCD Display, pre-wired
1 each: (SEN-GUN)	Gun Sensor, pre-wired
1 each: (SPEAKER)	8-ohm mylar speaker, pre-wired
2 each: (TSAL6100)	LED, infrared, high-power
2 each: (MUZ-LED-Y)	LED, super-bright, yellow
1 each: (SW-PB-RED)	Momentary button, Red
1 each: (SW-PB-BLK)	Momentary button, Black
1 each: (SW-TRIGGER)	Microswitch, momentary
1 each: (SW-KEY-SPST)	Key-lock power switch
1 each: (BATT-6AA)	Battery holder, 6 x AA
1 each: (CAB-CORE-PWR)	Power cable
1 each: (CAB-CORE-LCD)	LCD Ribbon Cable
1 each: (CAB-6C)	Button Cable, single-ended
2 each: (CAB-4C)	LED Cable / Aux Cable, single-ended



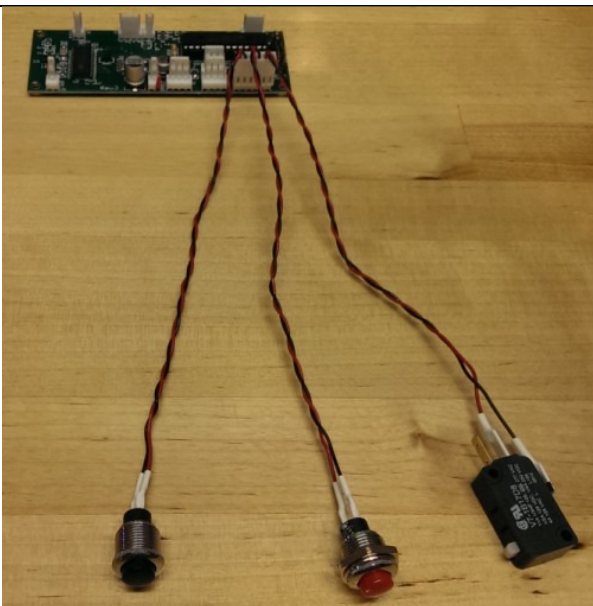
CORE (Rev J) Bundle Starter Kit



CORE-MOD (Rev J)



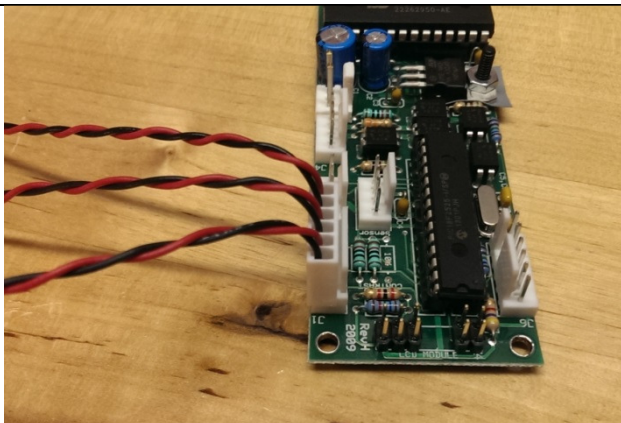
Install switches before soldering connections.



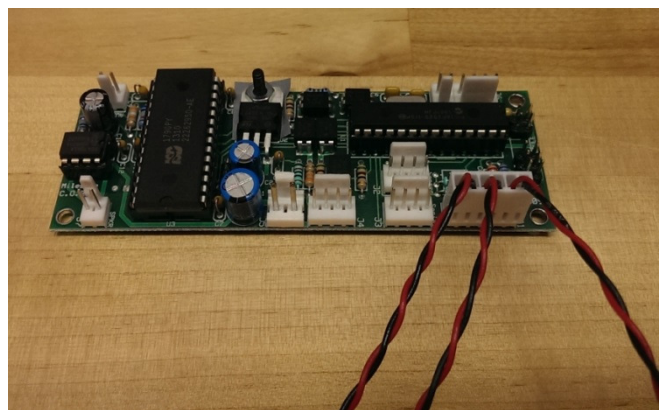
Mode Reload Trigger



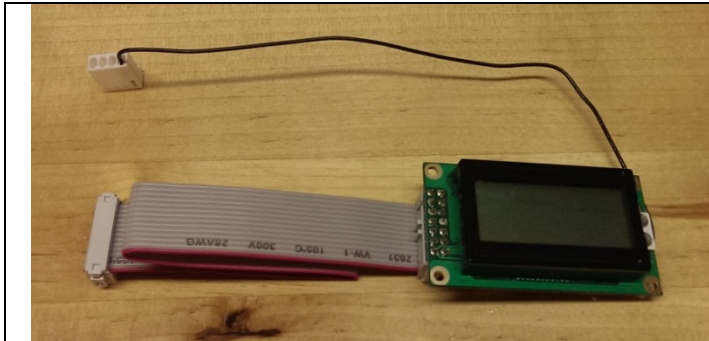
Solder and use heatshrink to cover the connections.



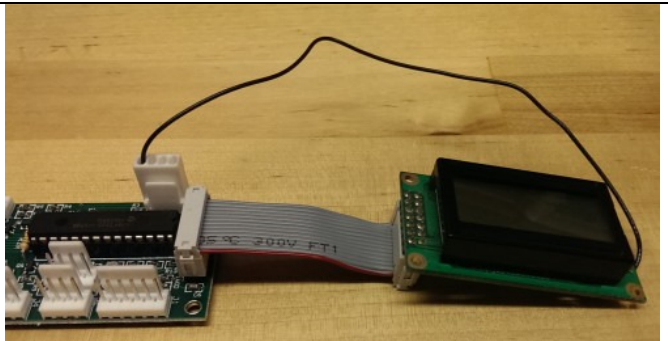
J1 Near to Far: Trigger, Reload, Mode



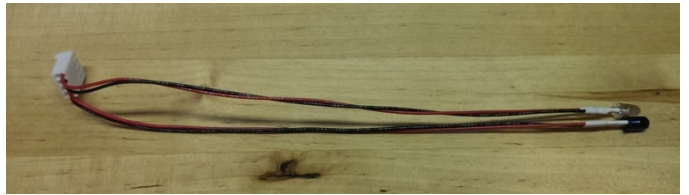
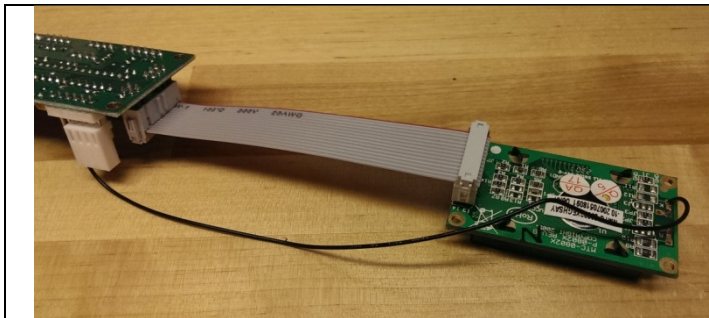
J1 Left to Right: Mode, Reload, Trigger



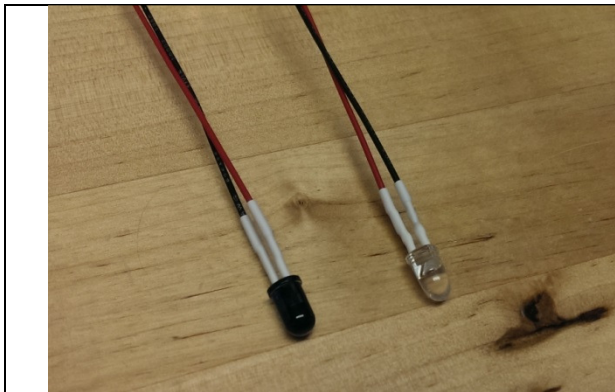
Red stripe on LCD ribbon cable denotes "Pin 1".



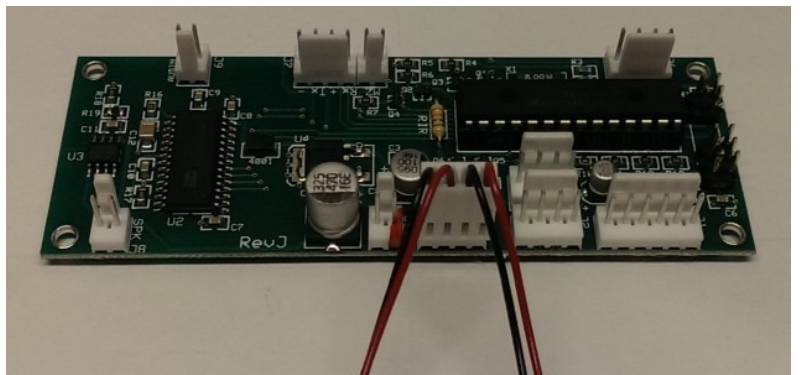
Connect LCD backlight wire to J6.



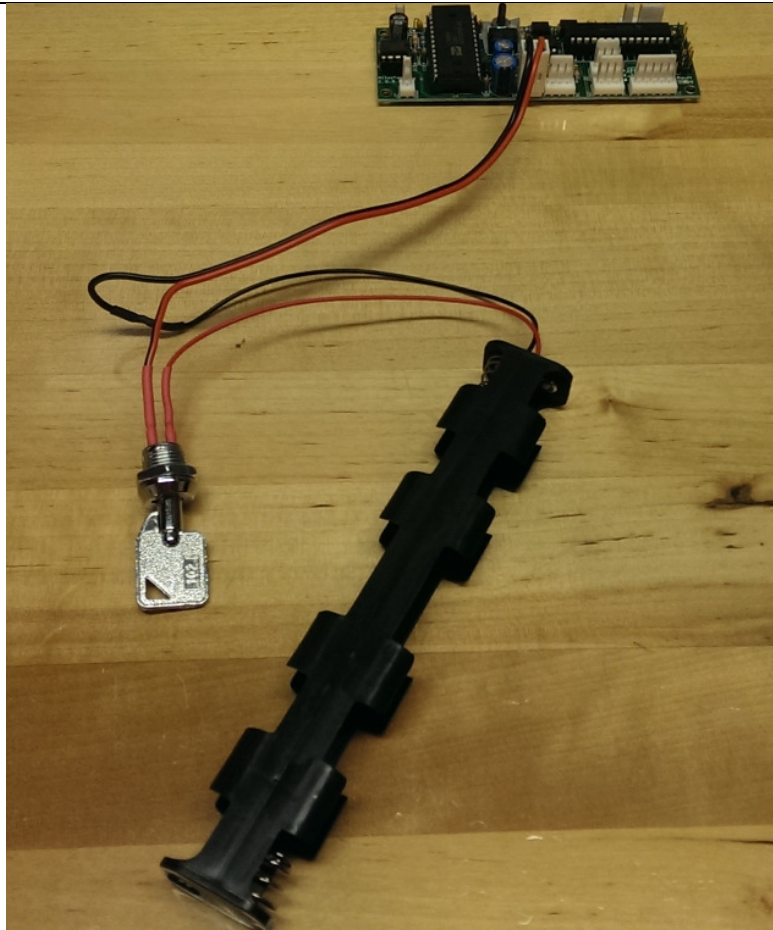
Connect the LED cable to J4.



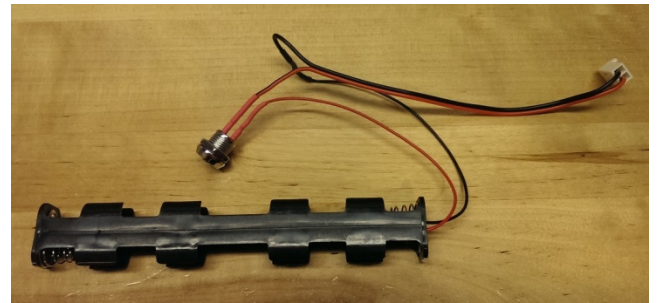
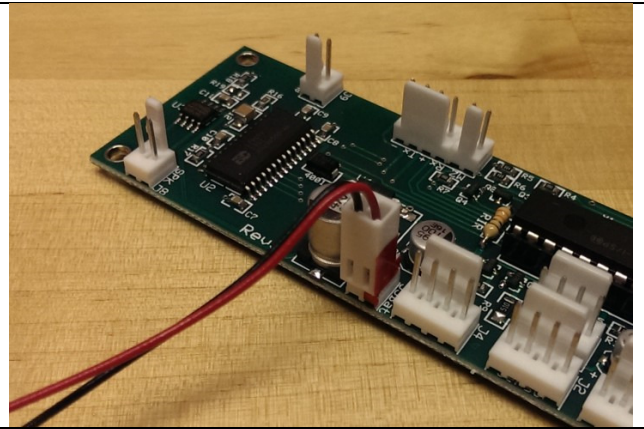
The longer lead on each LED is the + connection.
Use RED wires for +.



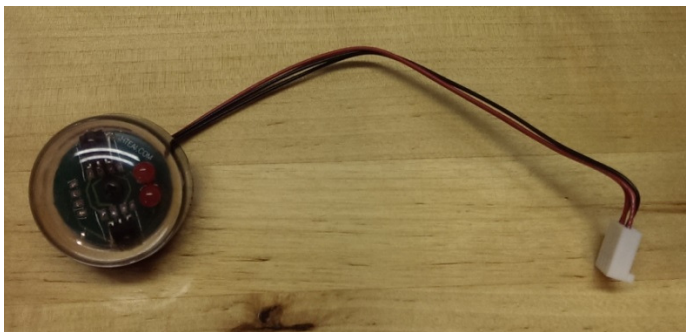
IR LED MUZZLE LED



Assembled Power Harness with Keylock Switch.



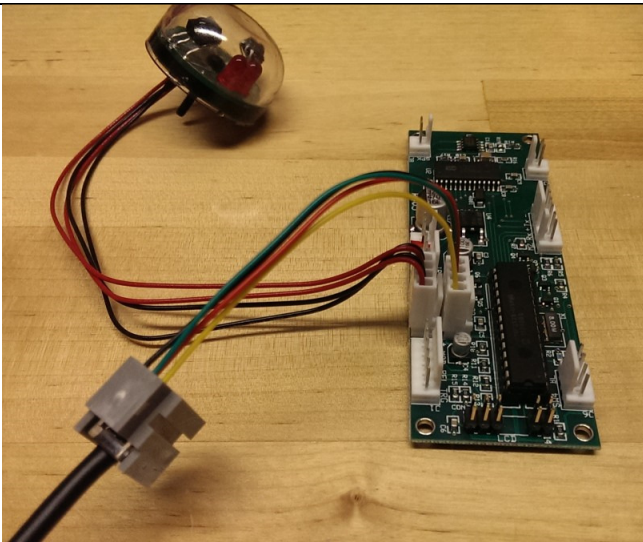
Connect Power cable to J5 (Batt). **Observe polarity.**
Reverse power connection will damage the board!



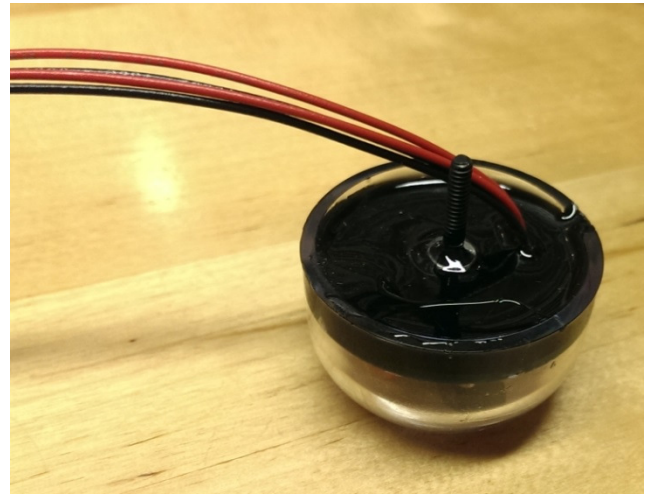
Gun Sensor is pre-wired.



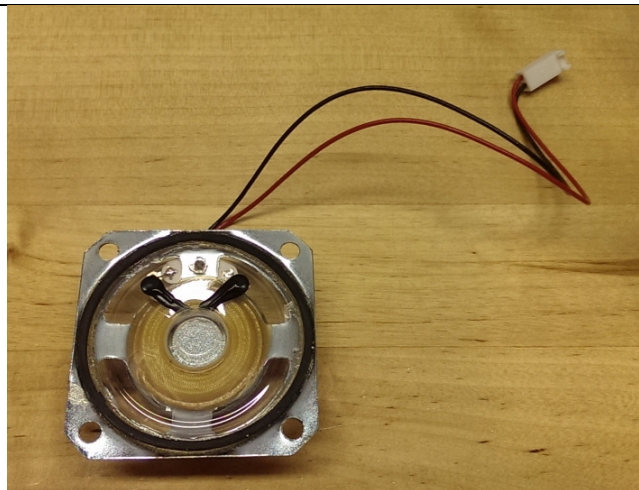
NOTE: The Rev J CORE board has TWO sensor connections J2 and J3. Connect to either one. They are identical.



Optional head sensor harness is connected to J3. Note use of optional RJ9-to-Molex adapter (SEN-ADAPT).
Head sensor and adapter are not included.



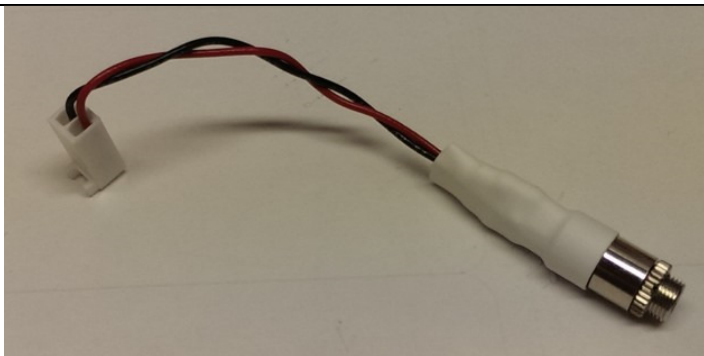
4-40 threaded mounting post. Use a 4-40 locknut.



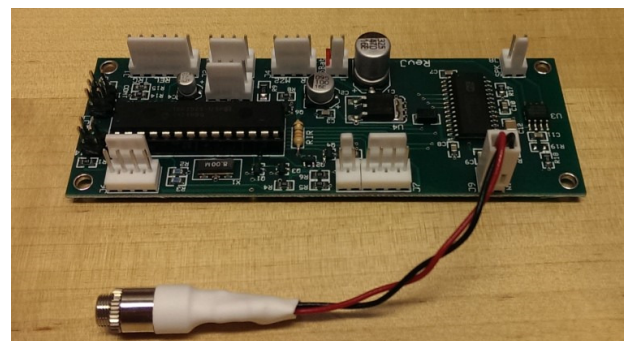
Mylar Speaker is pre-wired.



Connect speaker to J8.



Optional Audio Input cable. *Not included.*



Audio Input is J9. **Observe Polarity!**