Operating Procedure

1. Connect LCD to Arduino and Arduino to computer
2. Connect circuit board to Arduino and Power
   1. Connect red wire to +5V dc supply
   2. Connect one black wire to ground of power supply
   3. Connect other black wire to ground of Arduino (GND pin)
   4. Connect white wire to analog input 2 on Arduino
3. Allow MQ-3 to heat up for 20 minutes and the analog output should read around 140-150
4. Allow alcohol samples to sit with caps on for several minutes in order to allow vapor pressure to reach equilibrium in the tube
5. Place edge of alcohol vial next to MQ-3
6. Remove the lid and press select button to begin and hold for 5 seconds
   1. Hold the top of the tube at a slight angle next to the MQ-3
7. Remove the tube when the LCD reads “STOP”
8. Wait for the Arduino to output a response
9. Before attempting to measure again wait several minutes for the MQ-3 to return to normal operating level, running the program without blowing should give an analog output value around 140-150