

ADis Assembly Guide

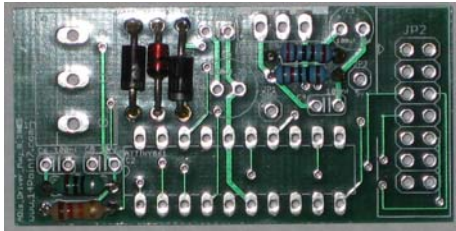
Date: Jun 25 2009

Author: Alan To

Driver Board Assembly:

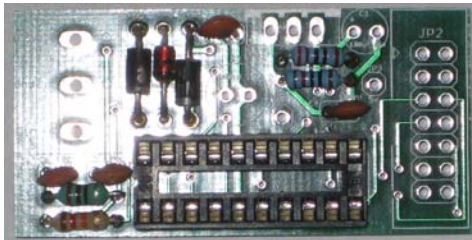
Step 1:

Solder resistors, diodes, and inductor. The stripe side of the diode faces downward. The Inductor looks like a "fat" green diode. R3 is labelled s 10k, however a 12k may have been included in your shipment, if that is the case please use 12k for R3.



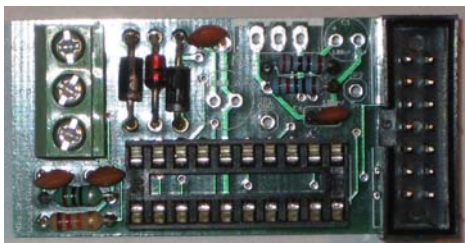
Step 2:

Solder the socket and ceramic capacitors, 100nf is labelled as "104" on the ceramic capacitor, 10nf is labelled as "103" on the ceramic capacitor.



Step 3:

Solder the green screw terminal and 14 Pin IDC header. Make sure the orientation of the IDC header is correct.



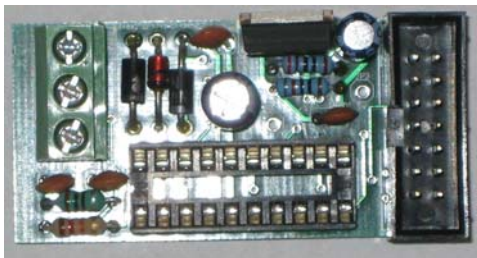
Step 4:

Solder the Electrolytic capacitors, the longer lead of the capacitor goes into the left hole, marked with “+” on the pcb.



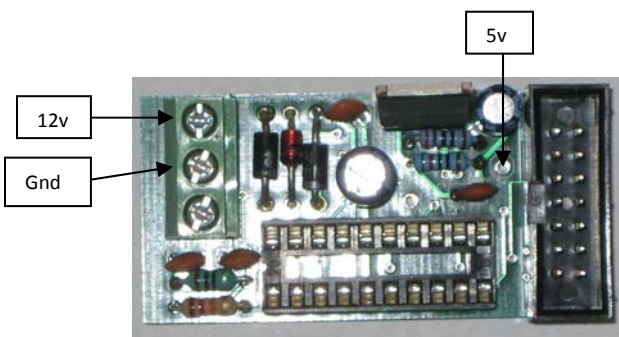
Step 5:

Solder the LM7805 voltage regulator



Step 6:

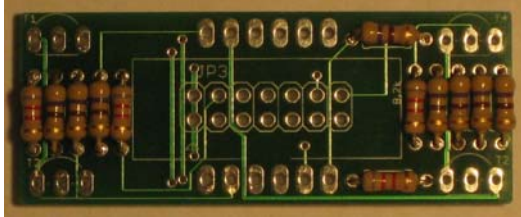
Apply 12v and Ground, with a voltmeter measure “JP3” to ensure it is close to 5v. The closer to 5v the better. If the voltage is less than 4.75v or greater than 5.25v, please check over the components and your solder work Do not insert the attiny microcontroller and power the Driver board if the voltage on JP3 is higher than 5.25v.



Display Board Assembly:

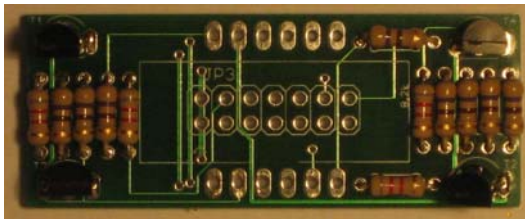
Step 1:

Solder the resistors



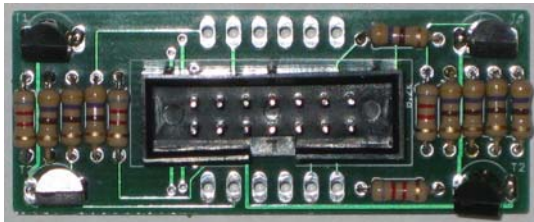
Step 2:

Solder the Transistors



Step 3:

Solder the 14 Pin IDC header, make sure the orientation is correct.



Step 4:

Flip the Display board over and solder the 7 Segment display on the other side. Make sure the orientation of the 7 segment display matches with the "8.8.8.8." label on the PCB.



Connecting ADis:

Insert the attiny microcontroller, the notch is oriented to the left. Connect 12v, Ground, and the analog output from your wideband controller to the green screw terminal. Attach the ribbon cable between the Display and the Driver.

