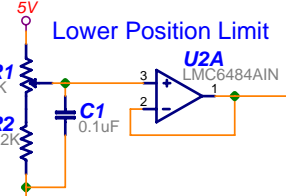
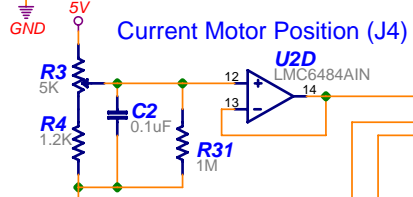


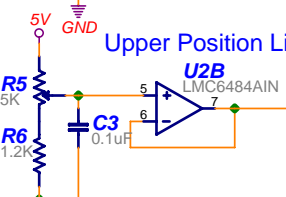
**Lower Position Limit**



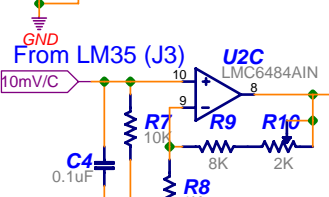
**Current Motor Position (J4)**



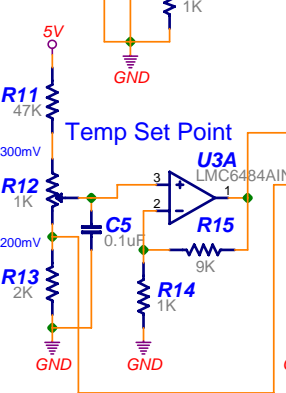
**Upper Position Limit**



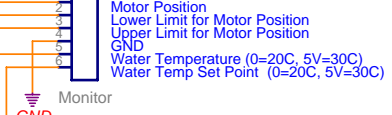
**From LM35 (J3)**



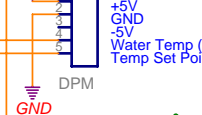
**Temp Set Point**



**J1 - TEST POINTS**



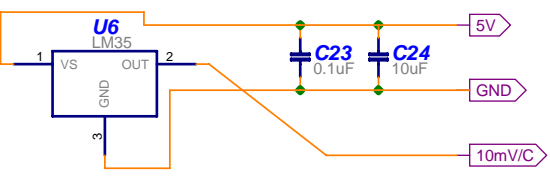
**J2 - TO DPM**



**12V Switching Supply**

V+ = 12V/2A  
FG internally tied to case GND  
L = line = 120VAC  
N = neutral

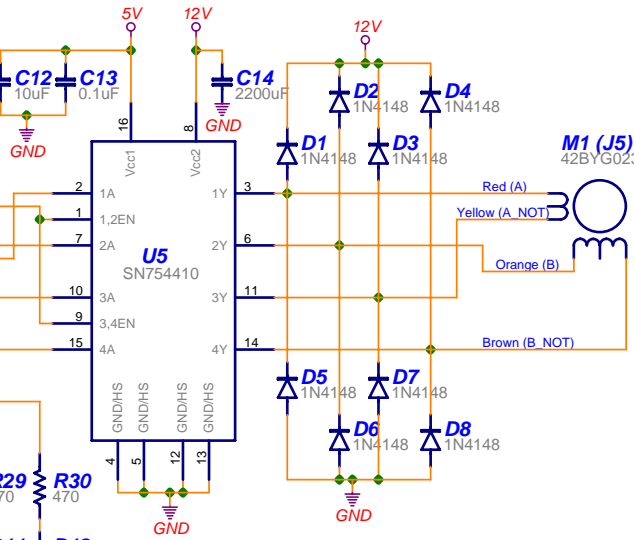
**Temp Sensor**



**U4 PIC16F874**

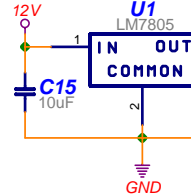
MCLR/Vpp  
RA0/AN0  
RA1/AN1  
RA2/AN3/Vref-  
RA3/AN3/Vref+  
RA4/T0CKI  
RA5/AN4/SS  
RE0/RD/AN5  
RE1/WR/AN6  
RE2/CS/AN7  
Vdd  
Vss  
OSC1/CLKIN  
OSC2/CLKOUT  
RC0/T1OSO/T1CKI  
RC1/T1OSI/CCP2  
RC2/CCP1  
RC3/SCK/SCL  
RD0/PSP0  
RD1/PSP1  
RB7/PGD  
RB6/PGC  
RB5  
RB4  
RB3/PGM  
RB2  
RB1  
RB0/INT  
RD7/PSP7  
RD6/PSP6  
RD5/PSP5  
RD4/PSP4  
RC7/RX/DT  
RC6/TX/CK  
RC5/SDO  
RC4/SDI/SDA  
RD3/PSP3  
RD2/PSP2

Note: LM324 runs off of 12V with 10 ohm series resistor and 10uF & 0.1uF decoupling cap on each IC



Use Large Copper Area for Heat Dissipation on SN754410

**Status LED's**



**Voltage Inverter**

