

Pinout of Driver Control

Chi-haur Wu

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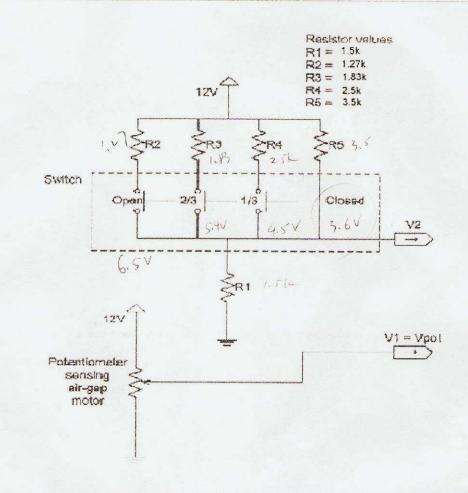
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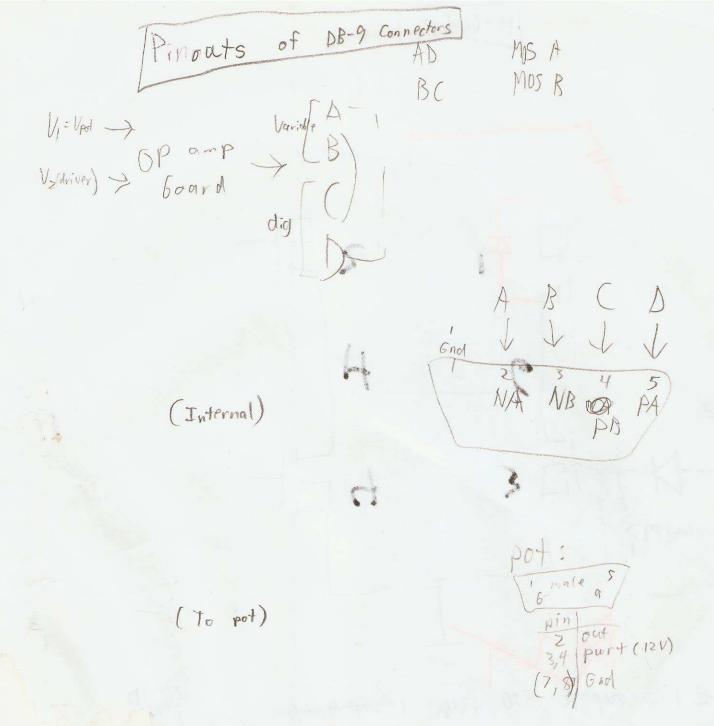
<chwu@ece.northwestern.edu> Monday, January 24, 2005 3:54 PM

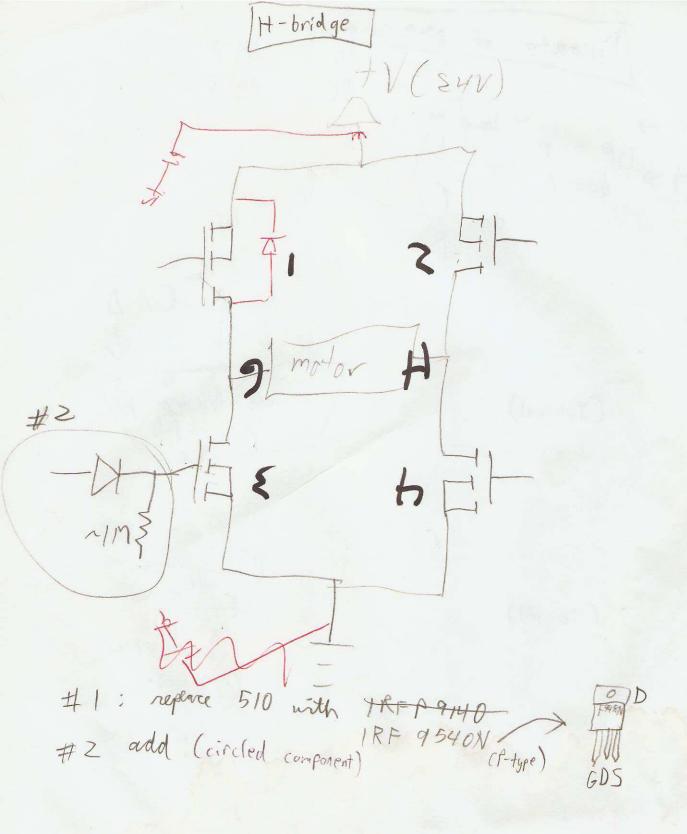
Attach:

Subject:

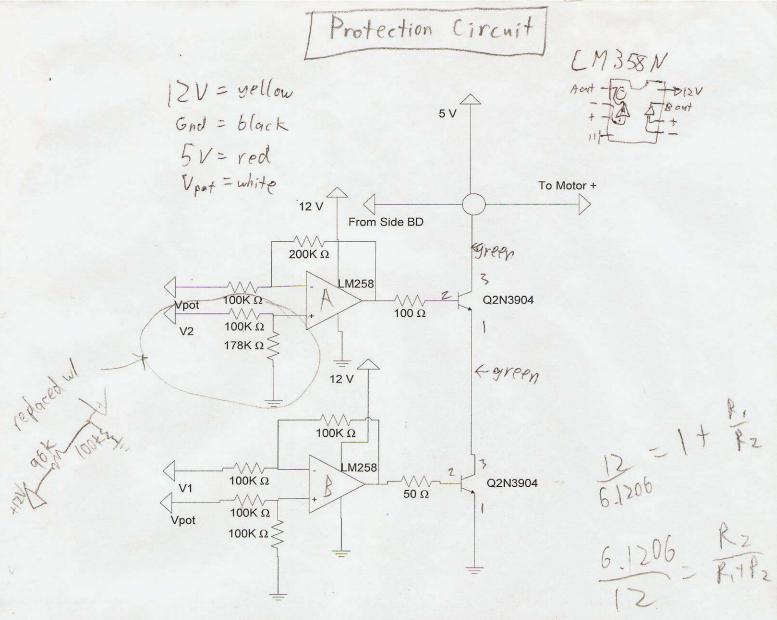
Airgap switch resistances.jpg; airgap op amp feedback resistance.jpg Attached Schematics with updated resistance



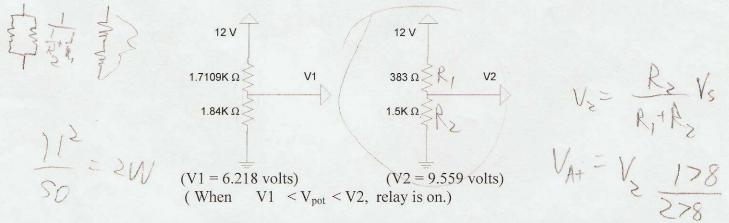




1: TODO for next design
2: implemented - fixed the issue
of burning the box (overheat
when 1+3 both slightly on)



The amplification values were chosen in order to have quick turn off (in a voltage sweep), while also making sure that not too much current is drawn from the op-amps. Here are the reference voltages we calculated for crunch values:



This is the simulation of the protection circuit. Outside 6.9 V - 8.8 V, the relay will shut off and subsequently shut off the air-gap motor. (?????? Ranges are different from selected V1 and V2)

VAH = (178 1500 12)

Protection Circuit +5V ref 1 V\$ +1/2V 1052 4752 200K } Ziook (refz) 100k 1001 × 3 LOOK Vin GIVD 3 Mook \$ 100x host loked 35 (look Pinb

Hum 3 turn 100.9 Kph 62,7 mph the 35 ten 10h 17th 63 m² 26 2-15 35- 45 mph 1.00 you TH You is Ndu 1 55 My 1950 pot bons 47,56 mph 37.31 mph Africaph A strop 45 mph Calibration 4/3-113 36.8 Pph 55.7 Kg/ 63,5 Kph 62.7 KM The weh 79.8 KPh 83.8 KPh 76.11 Kph SI KON Approx (1) Kan to let tur / tun 一本本一一次一个本本 turn /4 turn the the the 10 hour As tam turn tan