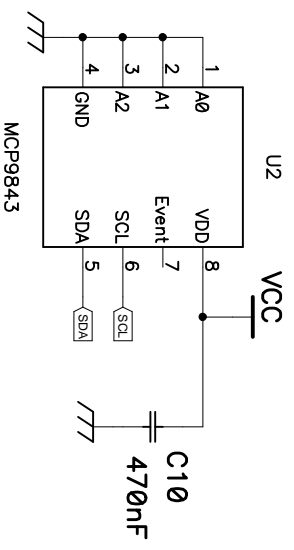
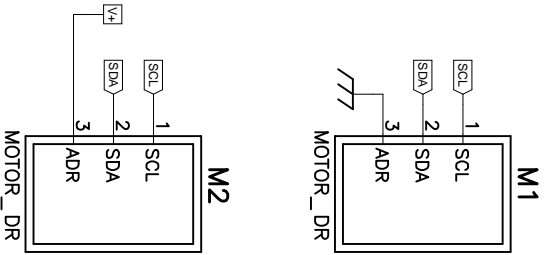


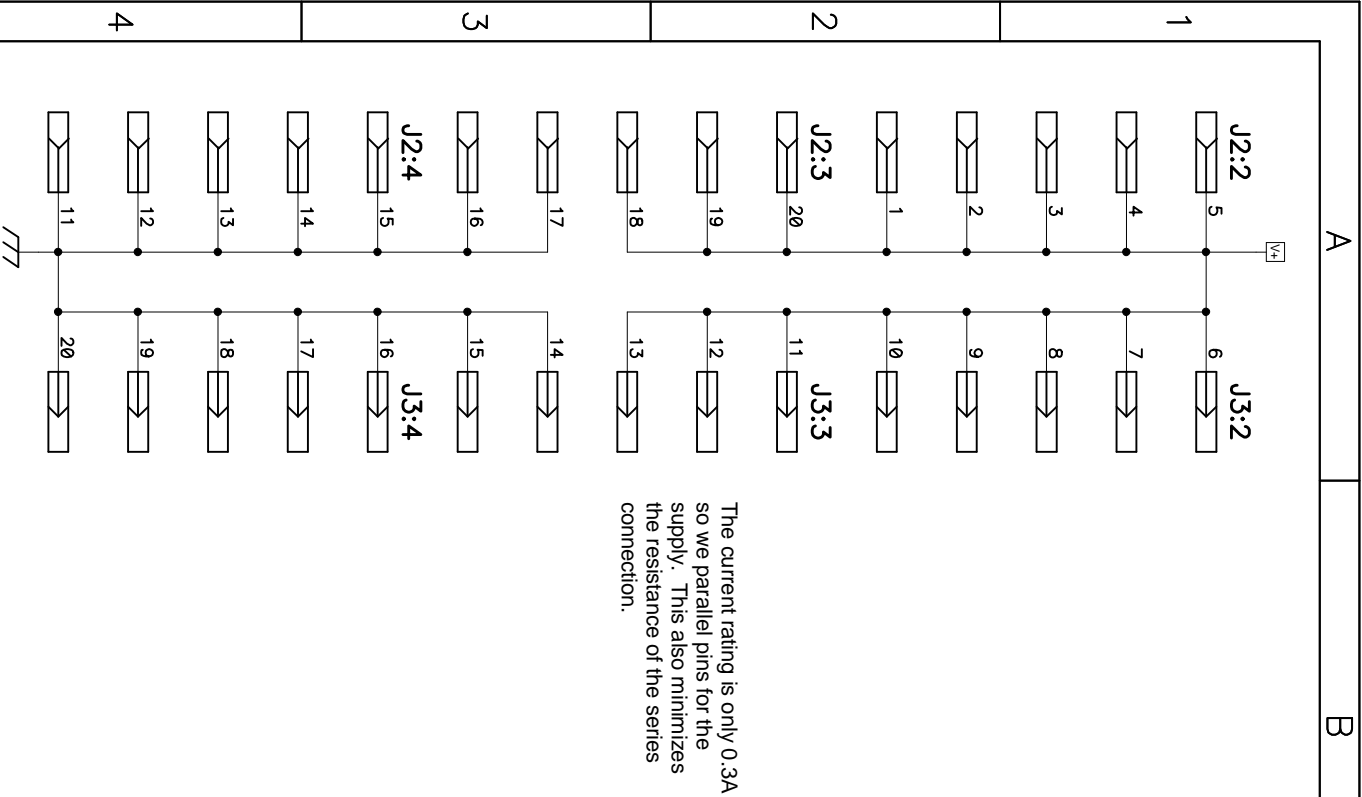
This is the driver for one Squiggle motor, replicated twice
on each of 3 driver boards.

Title		
Micron 6DOF handle: motor driver		
Size	Number	Rev
A		A
Date	Wed Feb 24, 2016	Drawn by ram
Filename	motor-drive.sch	Sheet 1 of 3

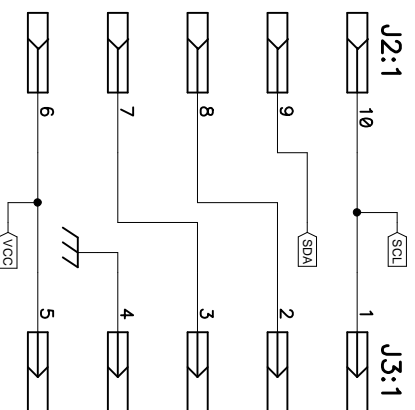


Temperature sensor.

Title			Micron 6DOF motor driver: main		
Size	Number		Rev		
A			A		
Date	Wed Feb 24, 2016		Drawn by	ram	
Filename	motor-drive.sch		Sheet	2 of 3	



The current rating is only 0.3A so we parallel pins for the supply. This also minimizes the resistance of the series connection.



These are the signal pins. We also pass the +3.3V supply in case we want it for temperature sensor or something.

WARNING:

Due to the definition of the stacking connectors as using the same pattern for both male and female, and how they are placed (necessarily flipped, unnecessarily rotated), the mating pins do NOT match number for number. The actual permutation is:

top --> bottom

1:5 --> 10:6

6:10 --> 5:1

11:15 --> 20:16

```
16:20 --> 15:11
```

This permutatio

This permutation is finessed by the visually pin-reversed female symbol and the female pin mapping table, which swaps gate locations.

Match gate numbers and symbol pin position to get the right mapping.

Also, to add a little extra confusion, the boards are built male/female sex opposite to this schematic, which avoids leaving live male pins exposed on the top.

Title			Micron 6DOF motor driver: stacking connector.		
Size	Number		Rev		
A			A		
Date	Wed Feb 24, 2016		Drawn by		ram
Filename	motor-drive.sch		Sheet		3 of 3