

A

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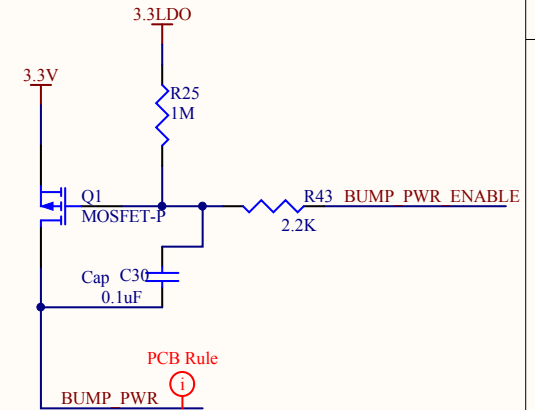
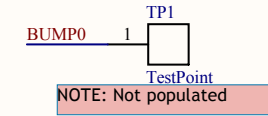
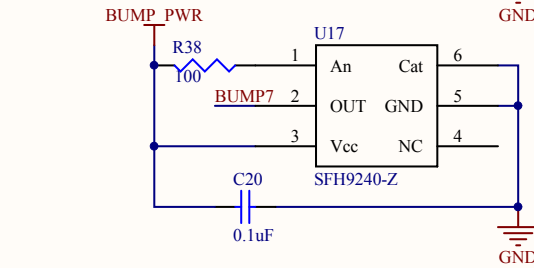
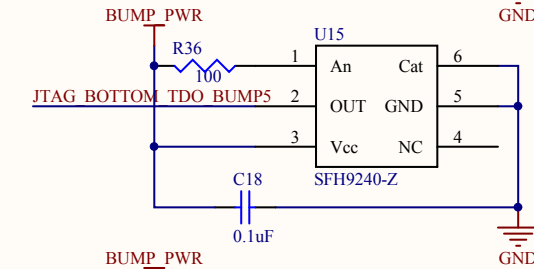
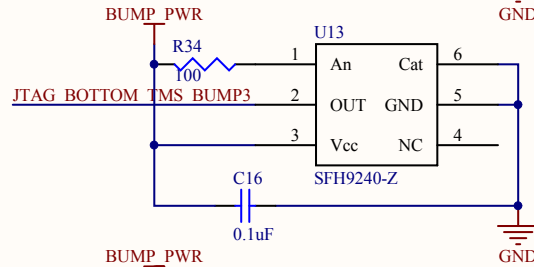
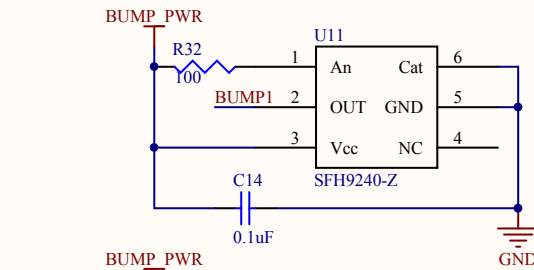
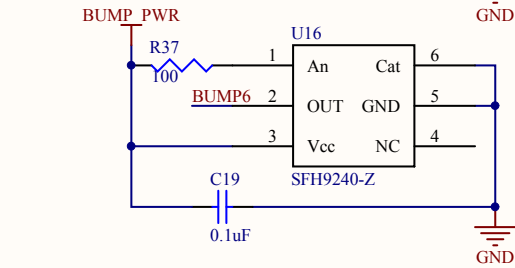
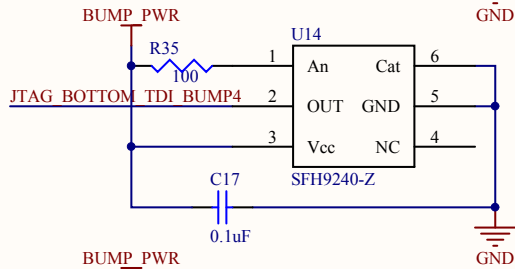
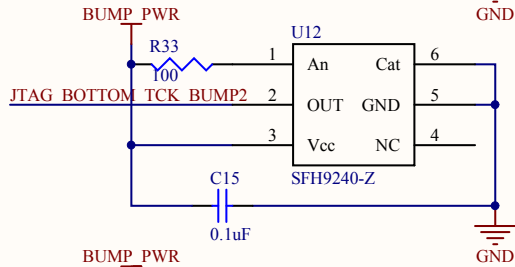
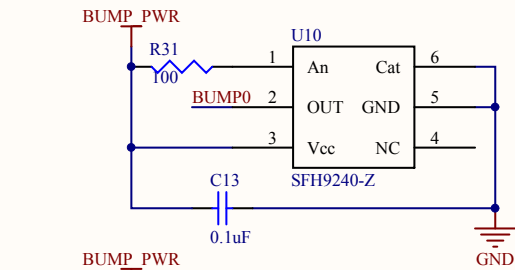
D

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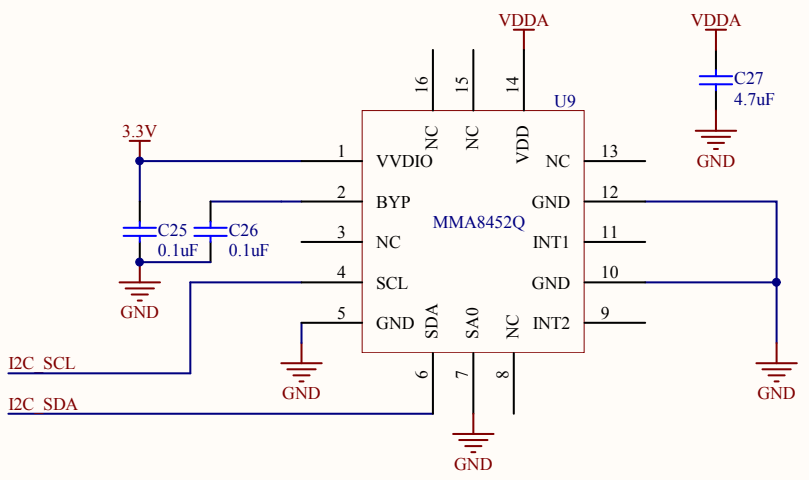
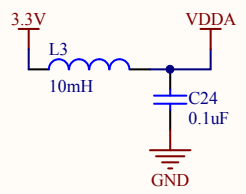
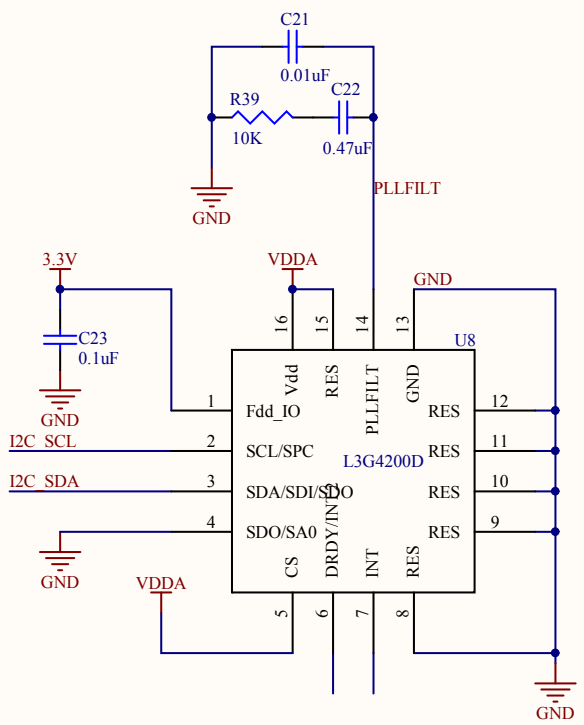
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Date:	3/14/2014		Sheet of
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Title			
Size	Number		Revision
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Date:	3/14/2014		Sheet of
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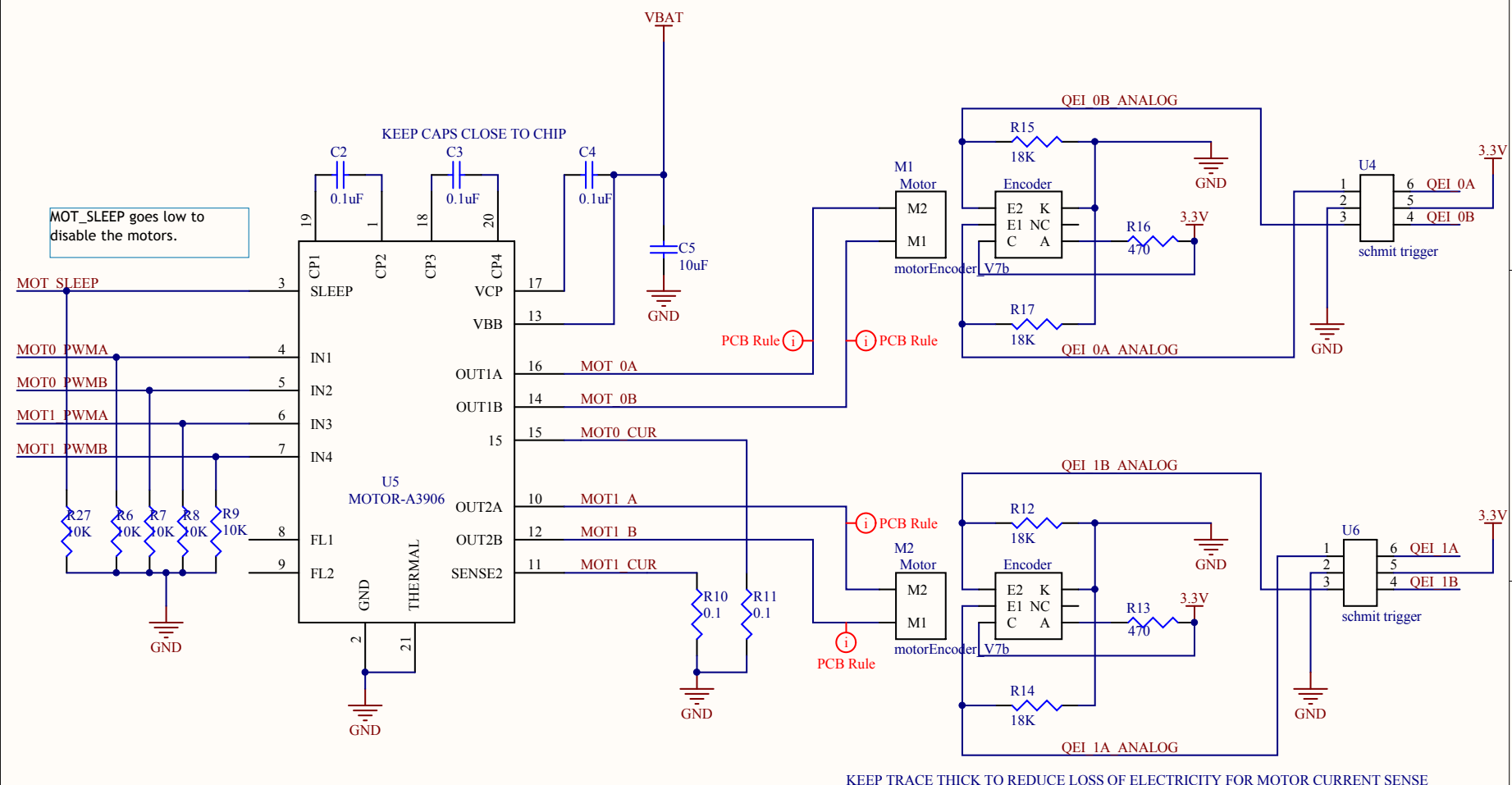
D

A

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D



MOT_SLEEP goes low to disable the motors.

KEEP CAPS CLOSE TO CHIP

KEEP TRACE THICK TO REDUCE LOSS OF ELECTRICITY FOR MOTOR CURRENT SENSE



Caster1
DNI

NOTE: Not populated

Title			
Size	Number		Revision
A			
Date:	3/14/2014		Sheet of
File:	C:\Users\...\motorEncoder.SchDoc		Drawn By:

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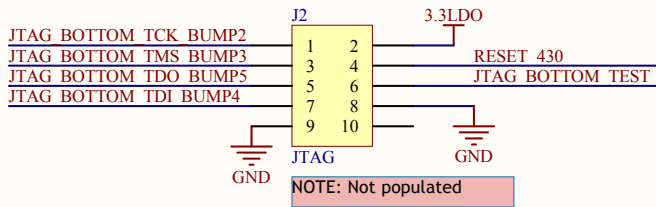
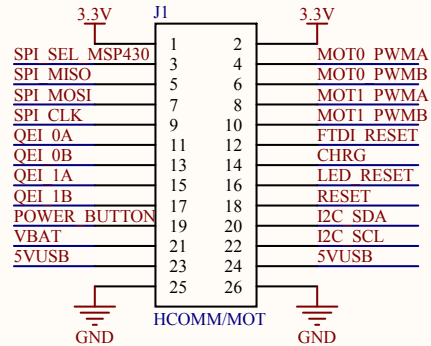
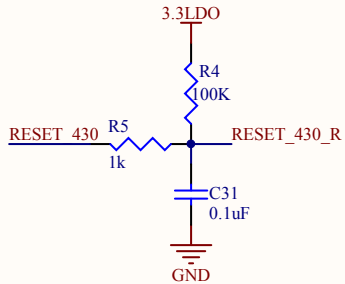
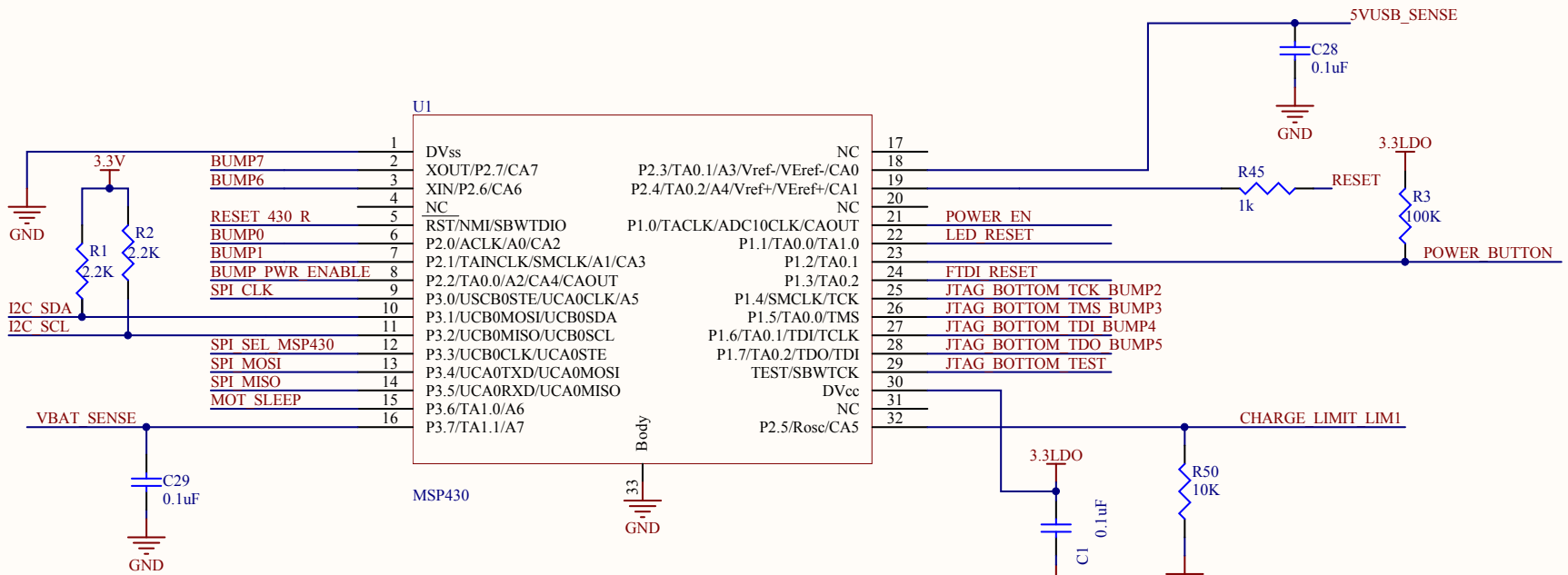
D

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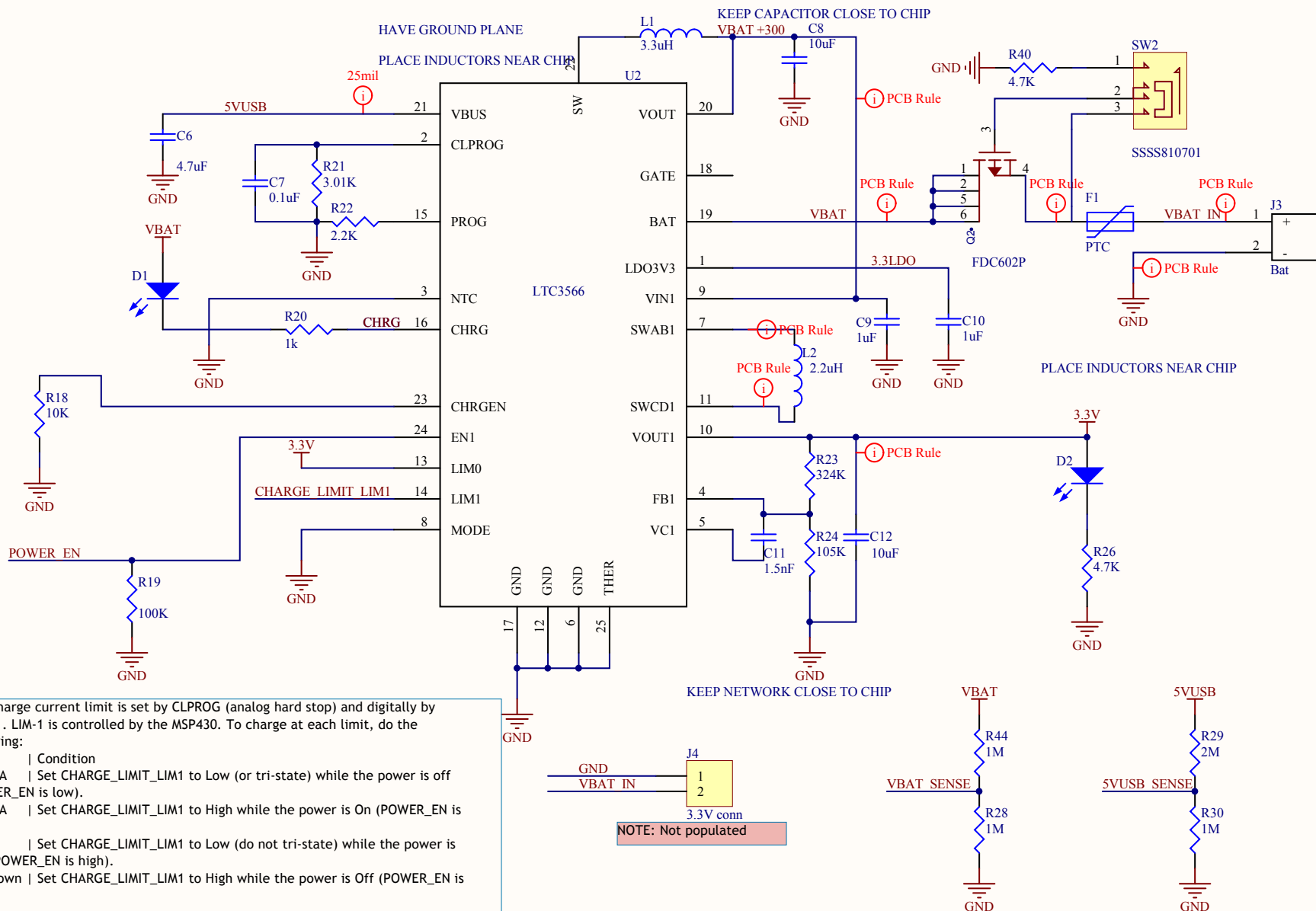
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NOTE: Not populated

Title		
Size	Number	Revision
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Date:	3/14/2014	Sheet of
File:	C:\Users\...\MSP430.SchDoc	Drawn By:



The charge current limit is set by CLPROG (analog hard stop) and digitally by LIM0-1. LIM-1 is controlled by the MSP430. To charge at each limit, do the following:

Mode	Condition
100 mA	Set CHARGE_LIMIT_LIM1 to Low (or tri-state) while the power is off (POWER_EN is low).

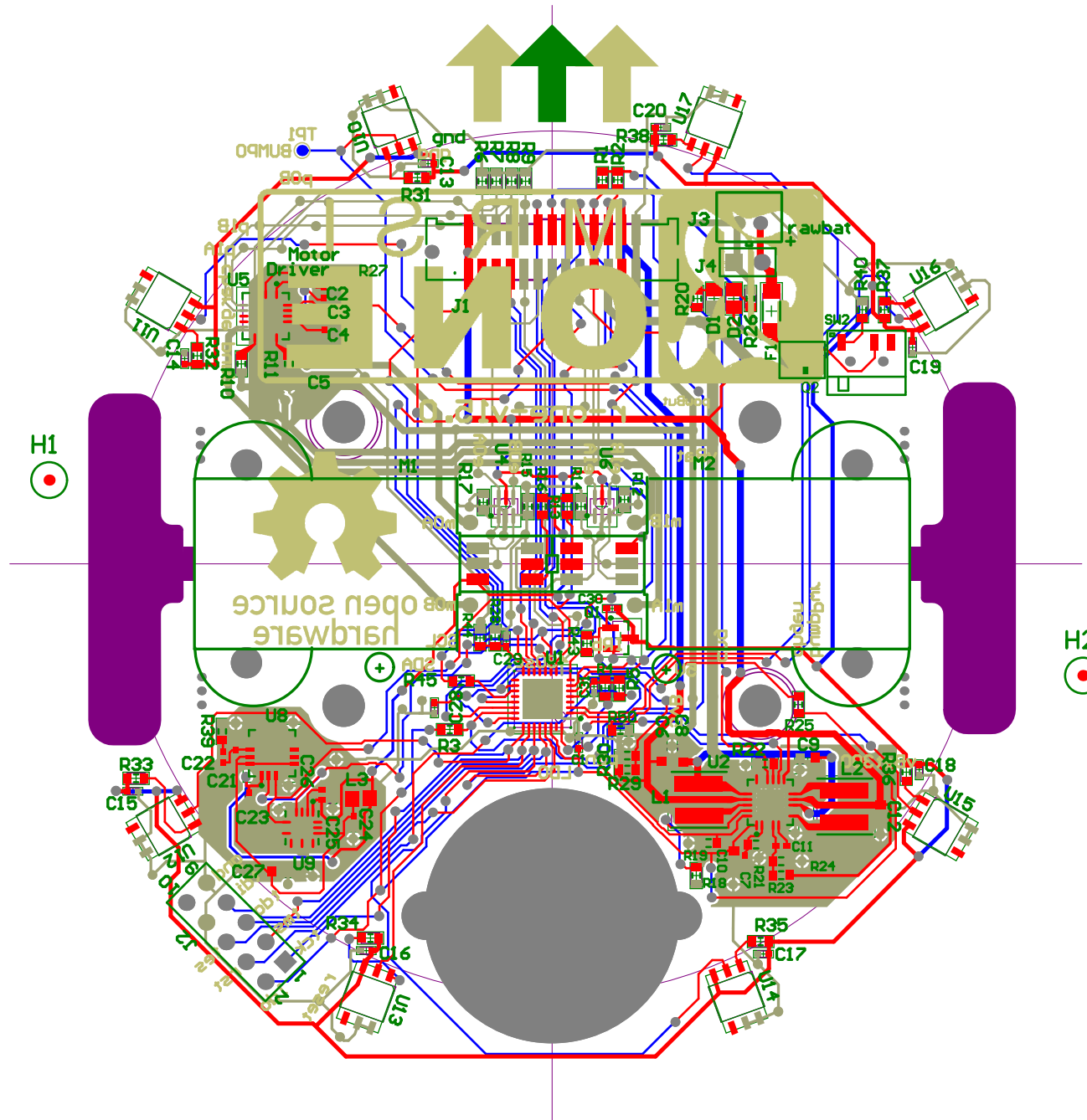
500 mA | Set CHARGE_LIMIT_LIM1 to High while the power is On (POWER_EN is high).

1 A | Set CHARGE_LIMIT_LIM1 to Low (do not tri-state) while the power is On .(POWER_EN is high).

Shutdown | Set CHARGE_LIMIT_LIM1 to High while the power is Off (POWER_EN is high).

Be sure that the the CHARGE_LIMIT_LIM1 is High BEFORE the robot is turned on. This will ensure that the robot will never try to pull 1A unless it is attached to a high current charger. This indication of a special charger comes by way of a voltage >5.3V on the 5VUSB_SENSE input or by some other negotiation process, like from the 8962.

Title		
Size A	Number	Revision
Date:	3/14/2014	Sheet of
File:	C:\Users\...\Power.SchDoc	Drawn By:



Waste Area to be routed off after assembly