

Revision Log

Rev Level	Date	Description
1	7/2/21	Preliminary Release

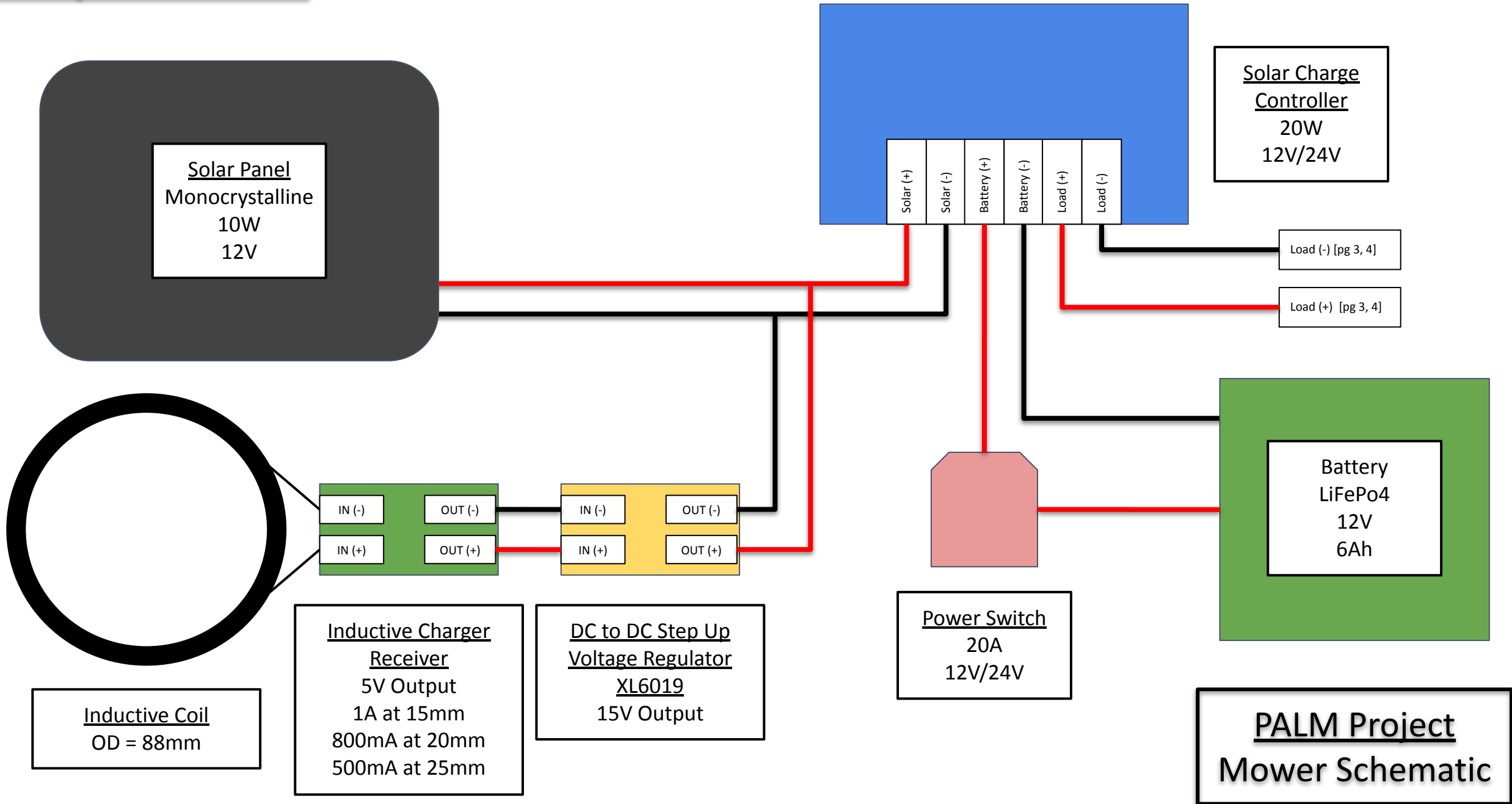
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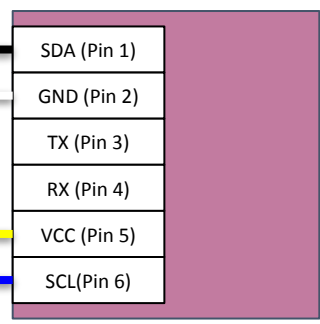
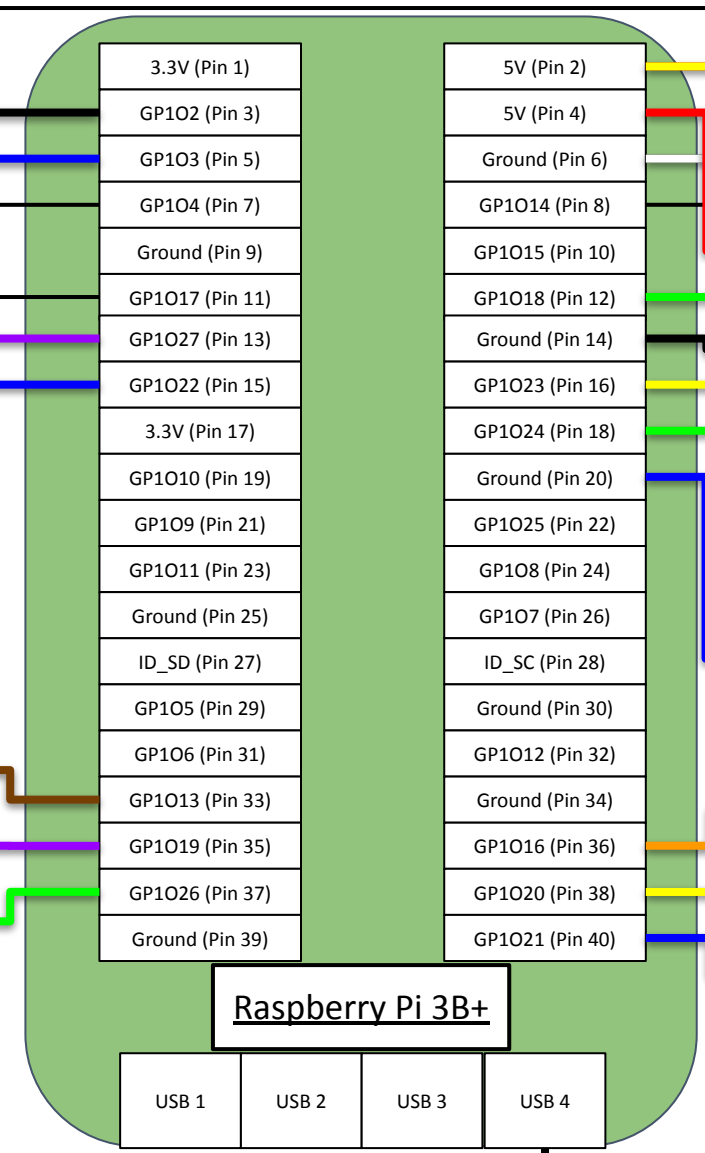
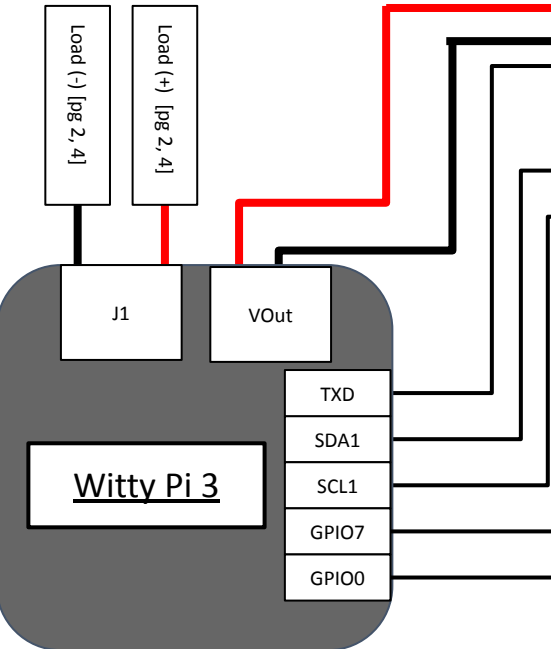
Page	Title	Description
1	Cover Page	Cover Page, Table of Contents
2	Power Supply	Solar Panel, Battery, Inductive Charge
3	Raspberry Pi	Raspberry Pi Peripherals
4	Motor Control	H-Bridge, DC Motors

Designed by:

Brian Darling & Gabriel De La Torre

PALM Project
Mower Schematic

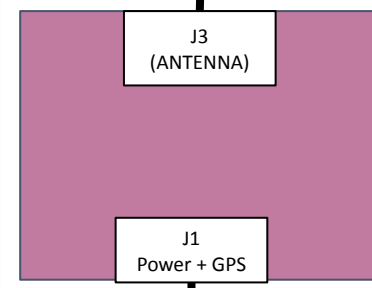




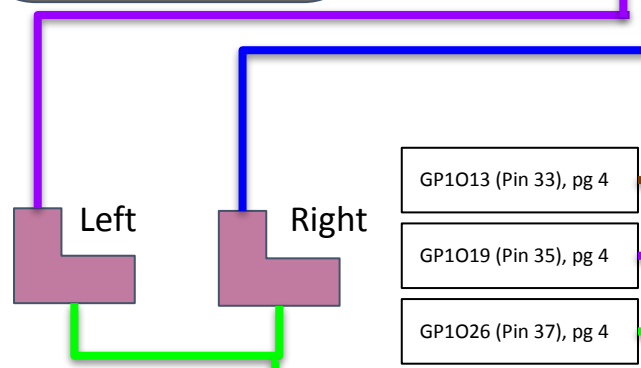
Compass HMC5883



GNSS Antenna ANN-MB-00 3V - 5V 15mA



RTK GPS Module simpleRTK2B 3.3V or 5V 600mW



Sensor Switch CYT1096 Momentary

H-Bridge 2 (VDD), pg 4

H-Bridge 2 (GND), pg 4

GP1023 (Pin 16), pg 4

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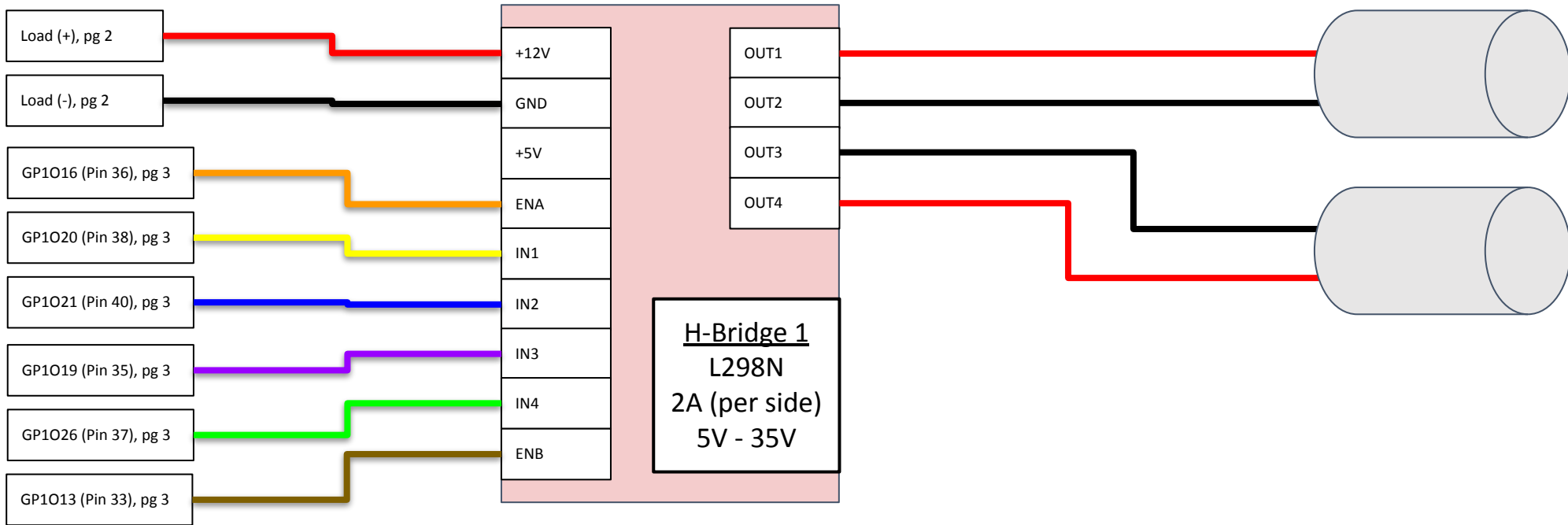
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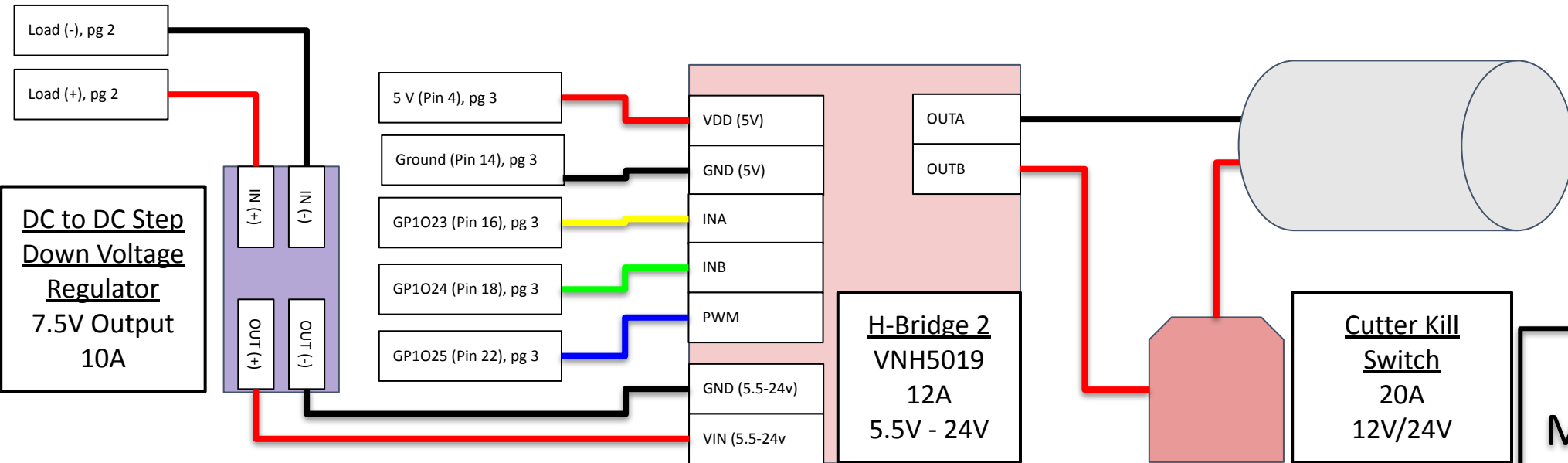
GP1021 (Pin 40), pg 4

PALM Project Mower Schematic



Drive Motor (R)
GM25-270
Brushed
12V
350 RPM
1.2A Max Load Current

Drive Motor (L)
GM25-270
Brushed
12V
350 RPM
1.2A Max Load Current



Cutter Motor
775
Brushed
12V (7.5V applied)
10,000 RPM
(5,000 RPM req)
1.2A No-Load Current
~ 7.5A Stall Current at

PALM Project
Mower Schematic