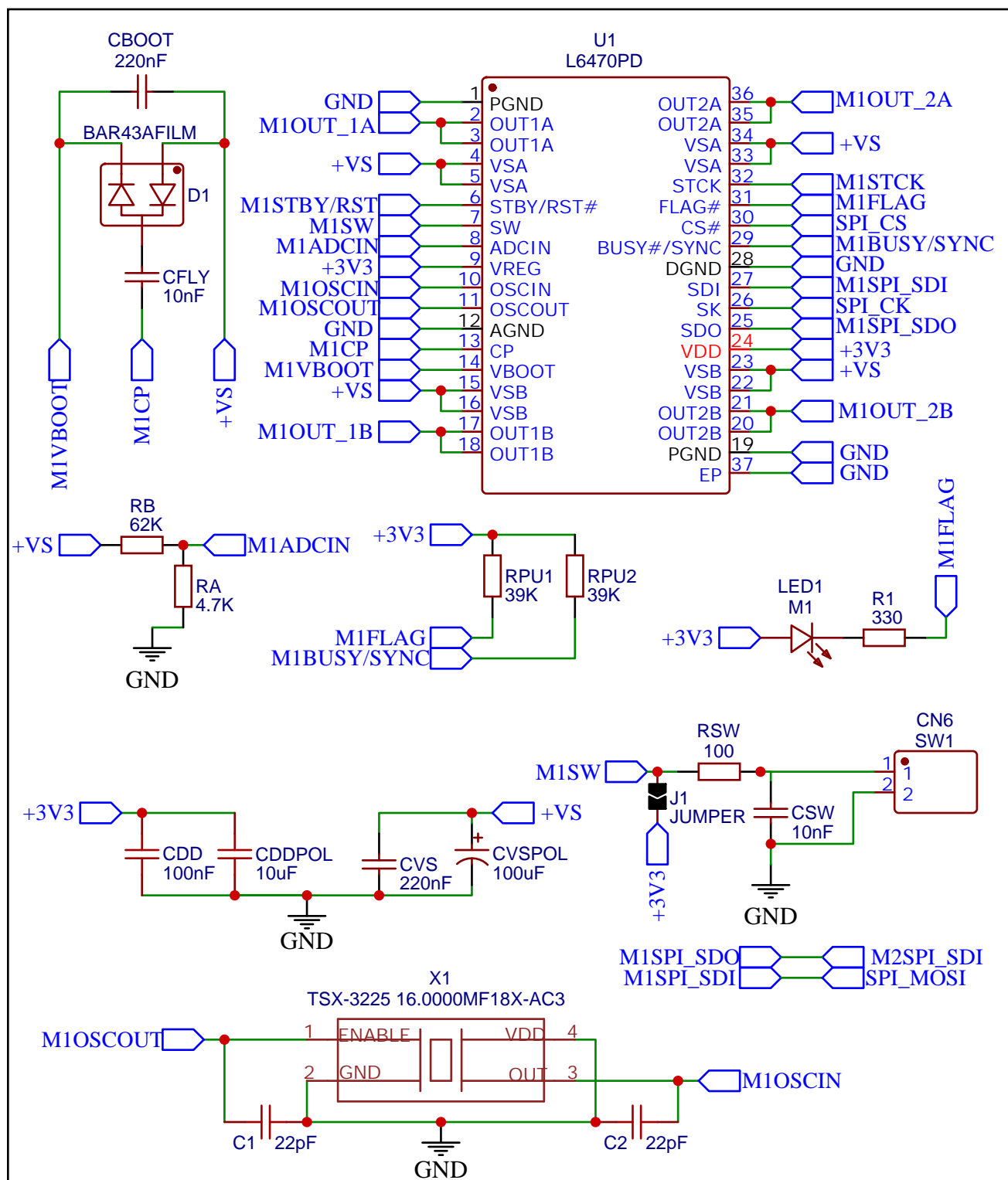
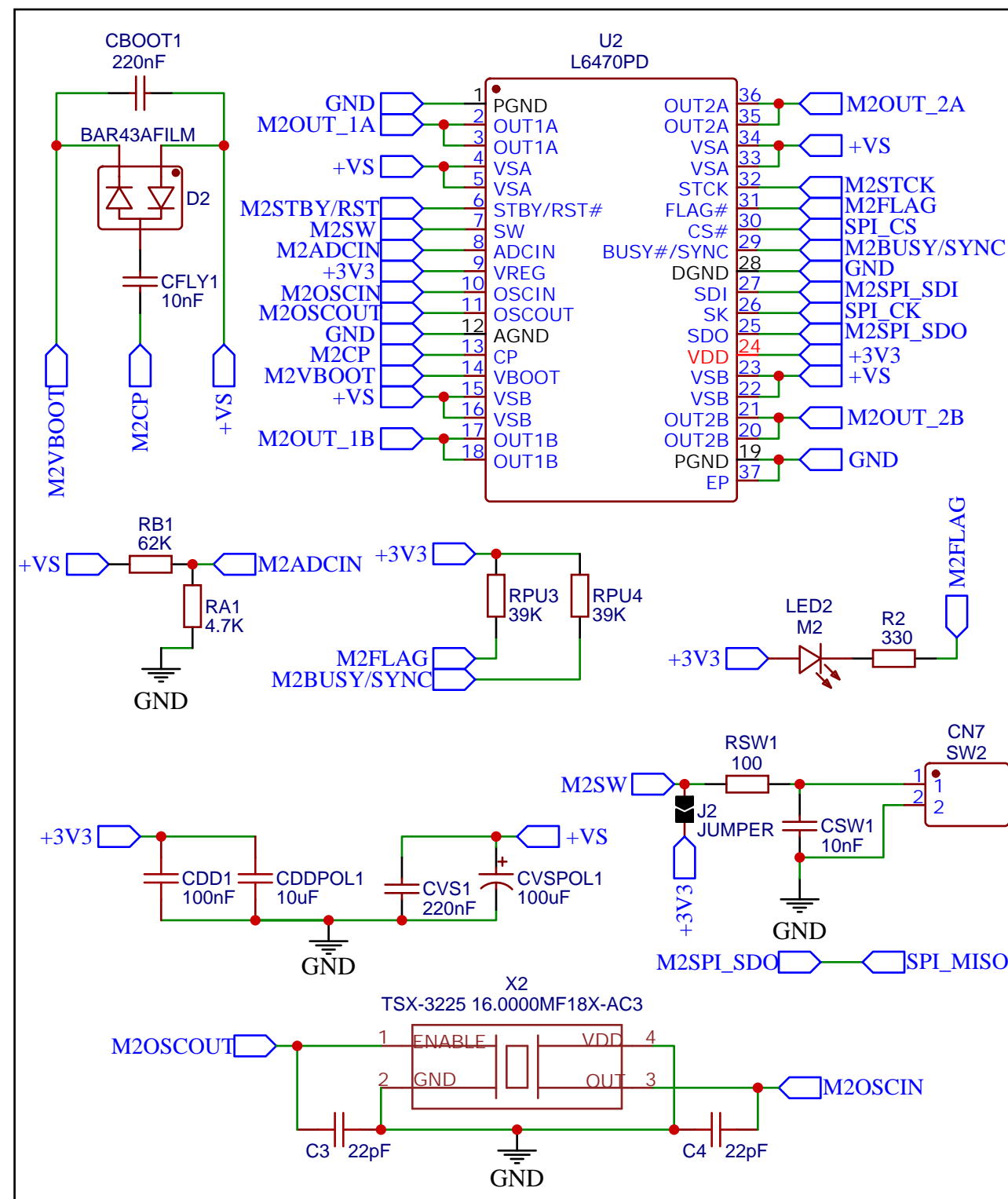


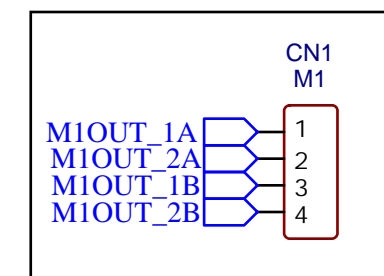
MOTOR 1 CONTROL



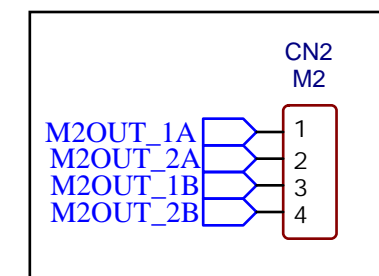
MOTOR 2 CONTROL



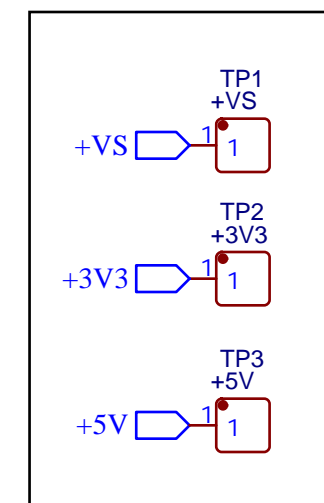
MOTOR 1



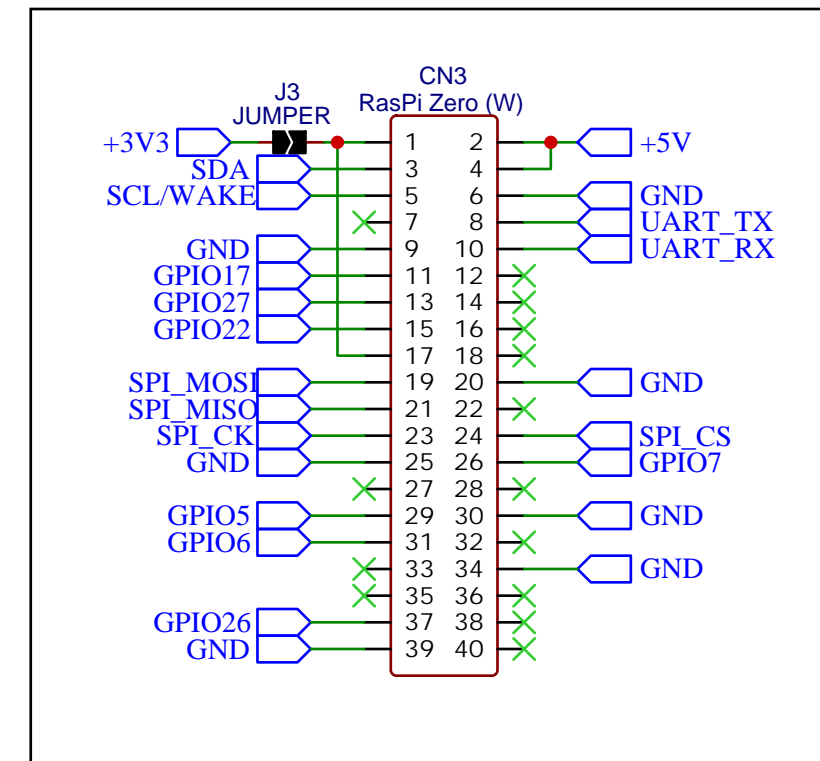
MOTOR 2



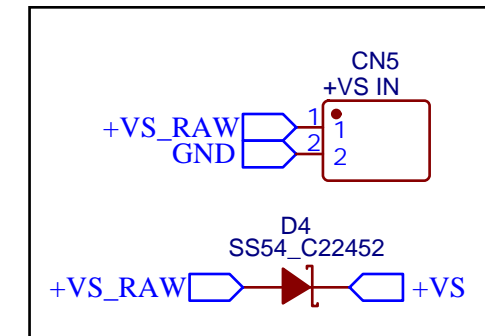
TEST POINTS



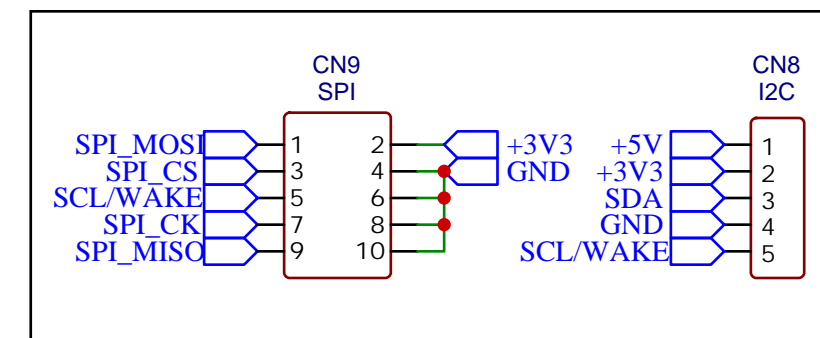
RASPBERRY PI



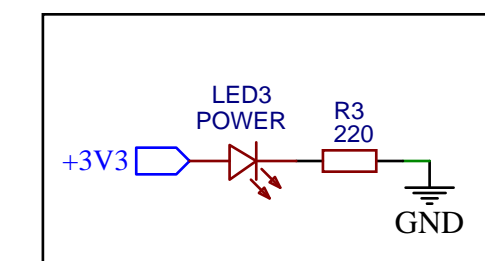
POWER INPUT



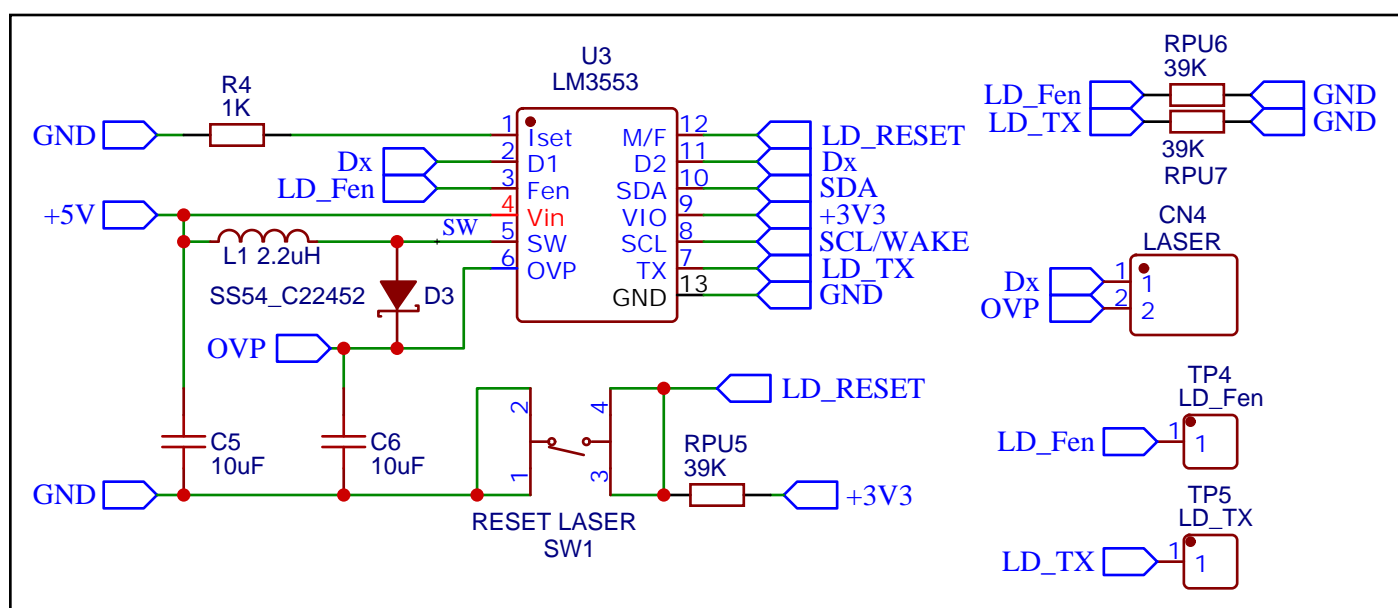
BREAKOUT CONNECTORS



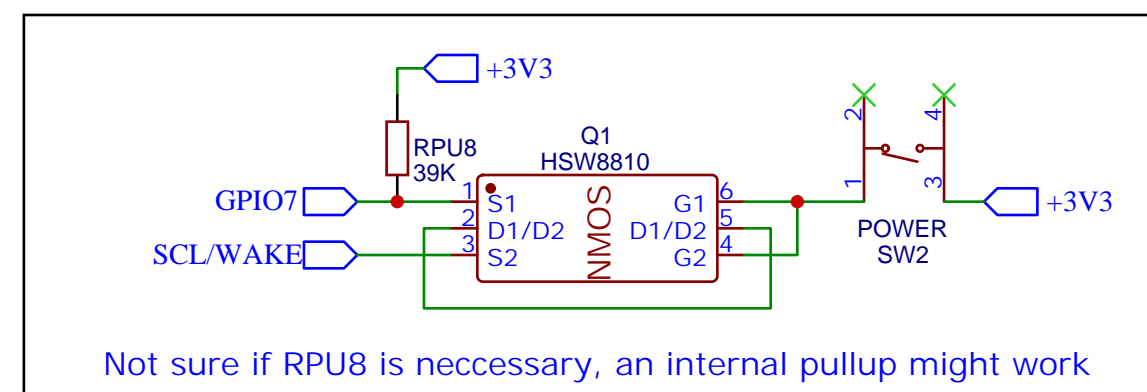
POWER INDICATOR



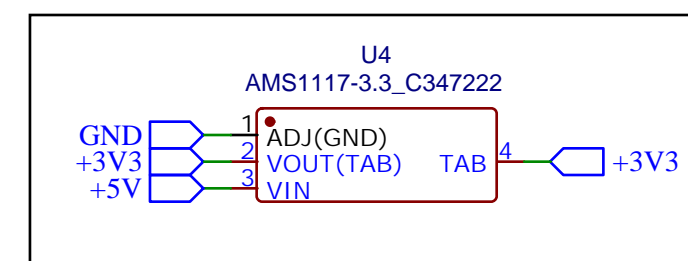
LASER DRIVER



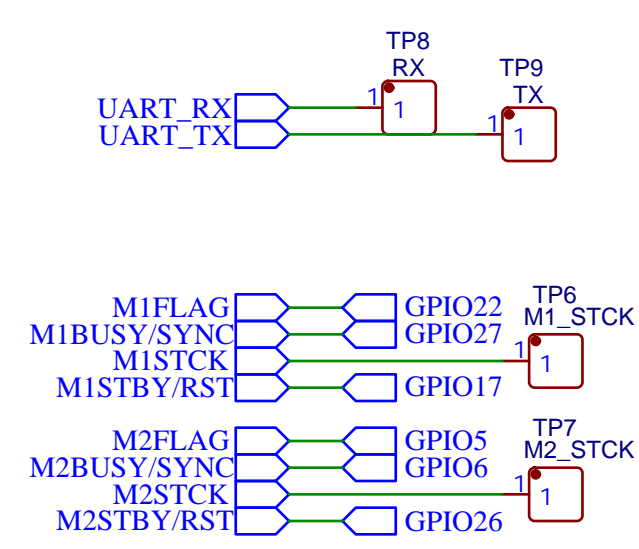
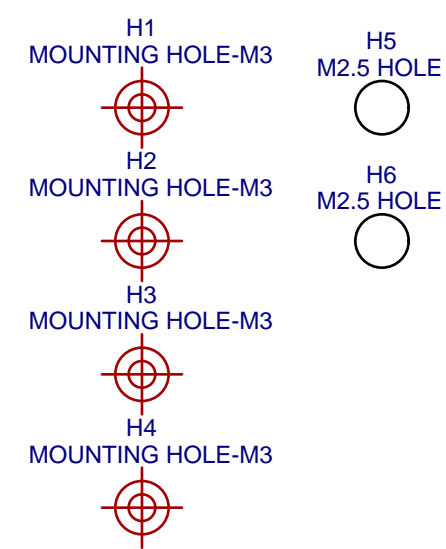
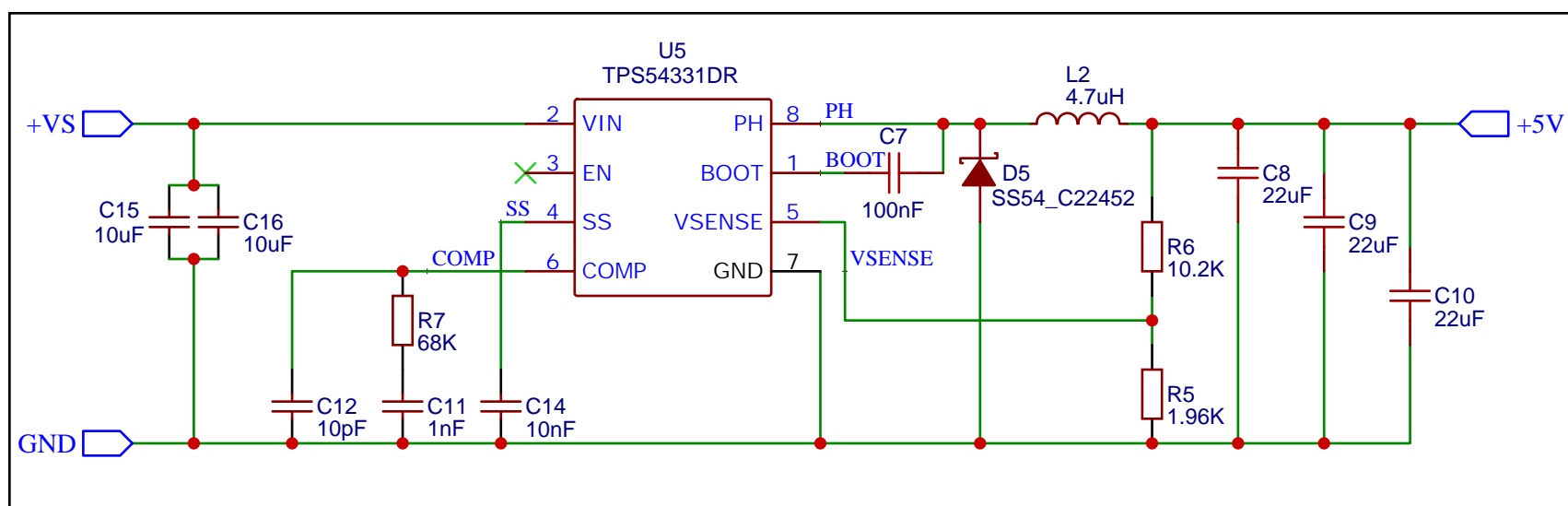
POWER ON/OFF SWITCH



3V3 LINEAR REGULATOR



5V BUCK REGULATOR



IMPORTANT NOTES

VS: Motor Supply between 8-28V
VDD: 3.3V

ADC is 5-bit 0-3.3V range
Ext. Osc. (+supporting caps) are optional.
If NOT using SW, solder Jumpers J1 & J2. RSW and CSW can then be left unpopulated.

Laser driver (LM3553) supplies up to 1.2 A depending on Rset
and config. Rset = 16.5k for full 1.2A
 $R_{set} = 6770 \times 1.24 \div I_{dx} [A]$ (WIP)

If NOT using external Regulator U5, solder Jumper J3.

TITLE:

OpenTurret Control

REV: 0.4



Company:	Individual
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Sheet: 1/1

Date: 2021-03-12 Drawn By: Nic Barker