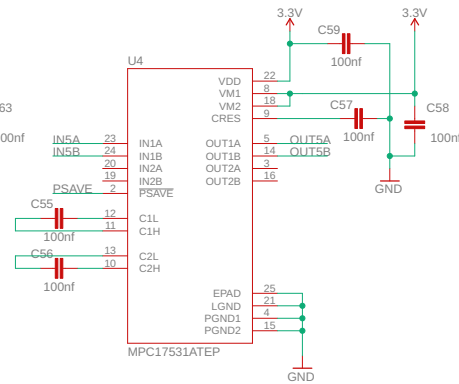
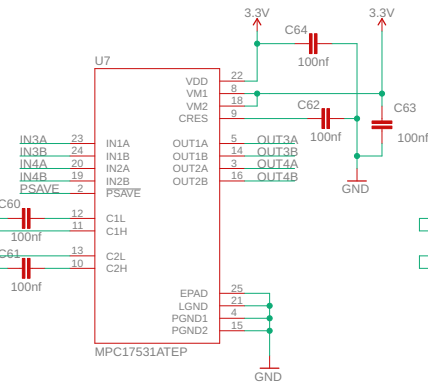
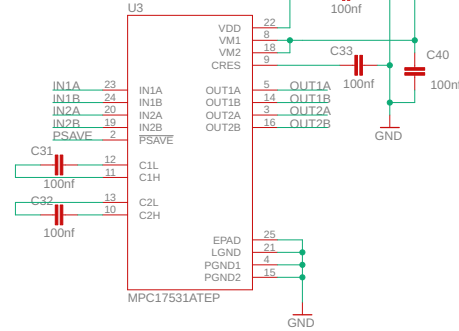
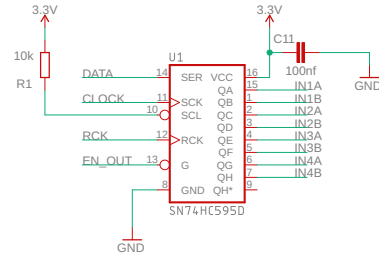
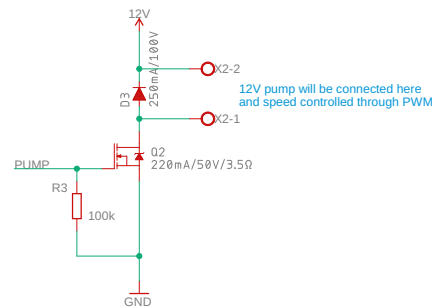
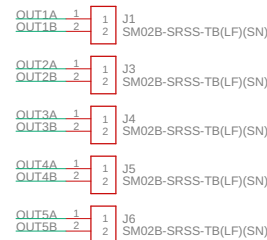


Solenoid and motor drivers

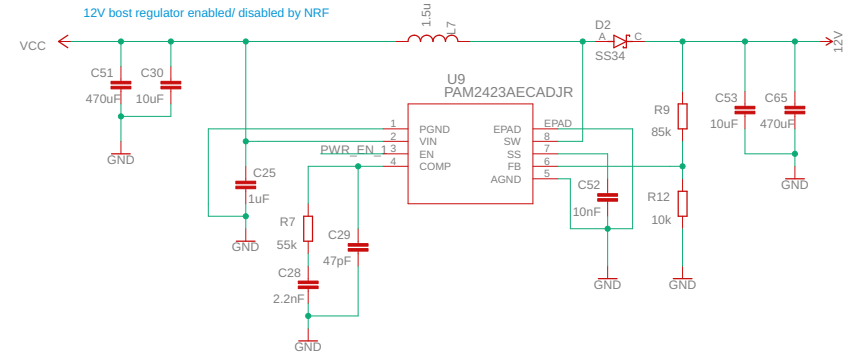
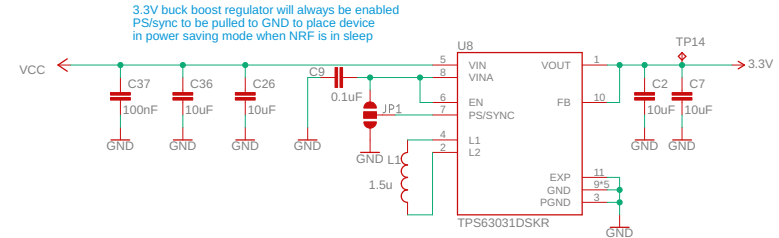
Shift register to control the solenoids



Connectors for the Solenoids



Voltage regulators



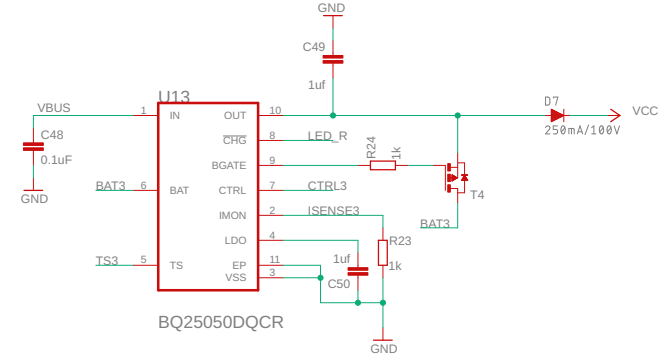
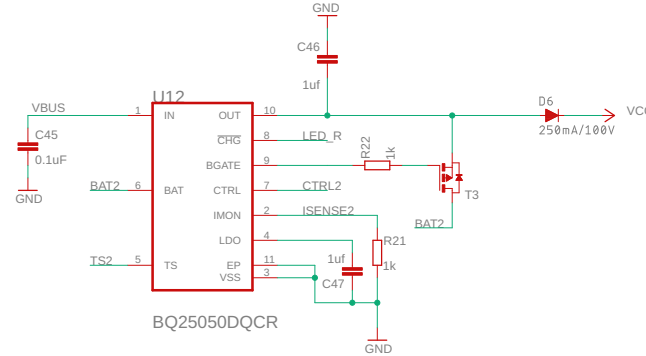
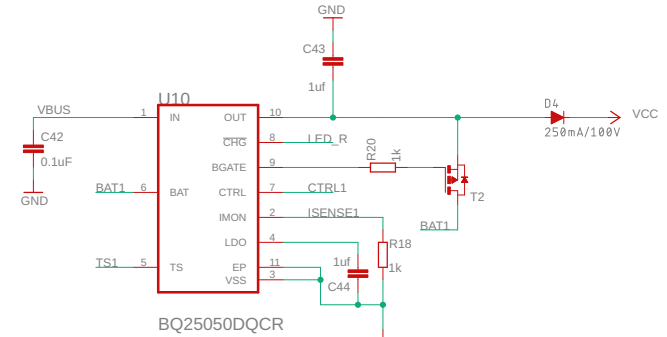
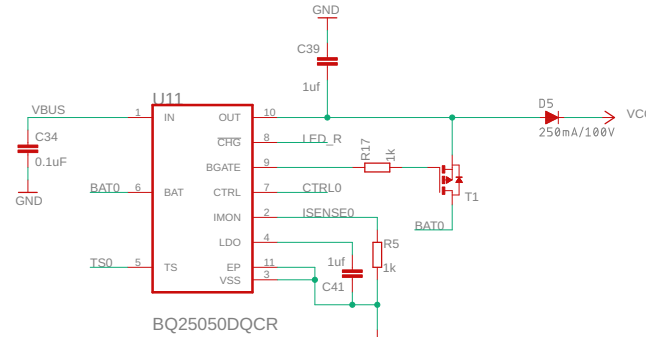
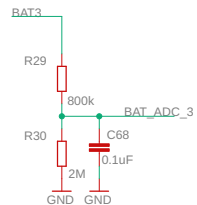
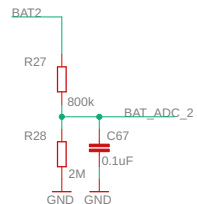
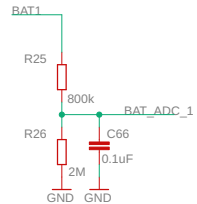
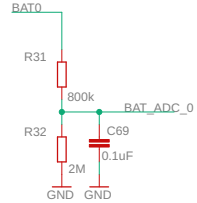
Seymour

9/1/2021 2:30 AM

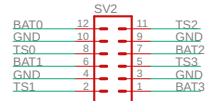
Sheet: 2/3

Battery Charging Circuit

Voltage dividers to measure the voltage of each battery
Their design allows only $4.2\text{ V} / 2.8\text{ M}\Omega = 1.5\text{ }\mu\text{A}$ draw per divider



Battery connector



TS pins are connected to 47-k Ω NTCs in the battery pack

The CHG pins of the charging ICs are connect to the red LED cathode and to P0.07 an input with internal pull up resistor. LED will light up when any of the charging ICs is charging a battery and its state can be monitored by the NRF

Seymour

9/1/2021 2:30 AM

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