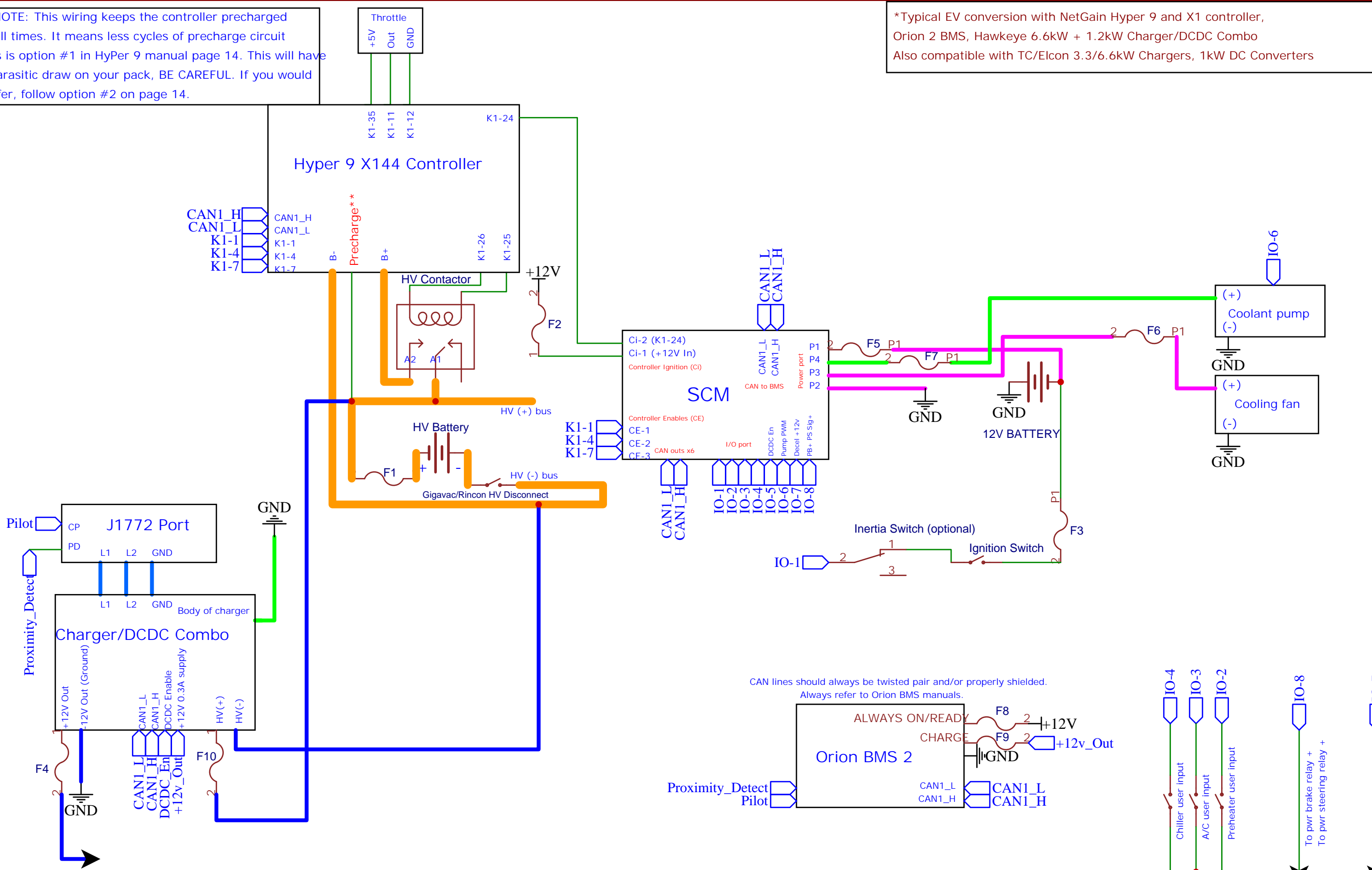



**\*\*NOTE:** This wiring keeps the controller precharged at all times. It means less cycles of precharge circuit. This is option #1 in HyPer 9 manual page 14. This will have a parasitic draw on your pack, BE CAREFUL. If you would prefer, follow option #2 on page 14.

\*Typical EV conversion with NetGain Hyper 9 and X1 controller, Orion 2 BMS, Hawkeye 6.6kW + 1.2kW Charger/DCDC Combo. Also compatible with TC/Elcon 3.3/6.6kW Chargers, 1kW DC Converters



CAN lines should always be twisted pair and/or properly shielded. Always refer to Orion BMS manuals.

Fuses	Wire gauge
F1 = 500VDC 400A	18 AWG
F2 = 10A	16 AWG
F3 = 5A	12 AWG
F4 = 100A (or circuit breaker)	10 AWG
F5 = 30A	6 AWG
F6 = 25A	2/0 AWG (Orange cable)
F7 = 15A	
F8 = 5A (Check BMS manuals)	
F9 = 5A (Check BMS manuals)	
F10 = 500VDC 75A (recommended)	

<b>TITLE: EV Conversion with SCM2 X144 Controller (144V)</b>		<b>REV: 2.00</b>
		<b>Sheet: 1/1</b>
<b>Company: Hawkeye Innovations LLC</b>		<b>Date: 11/13/2022</b>
<b>Drawn By: Adam Lansing</b>		

