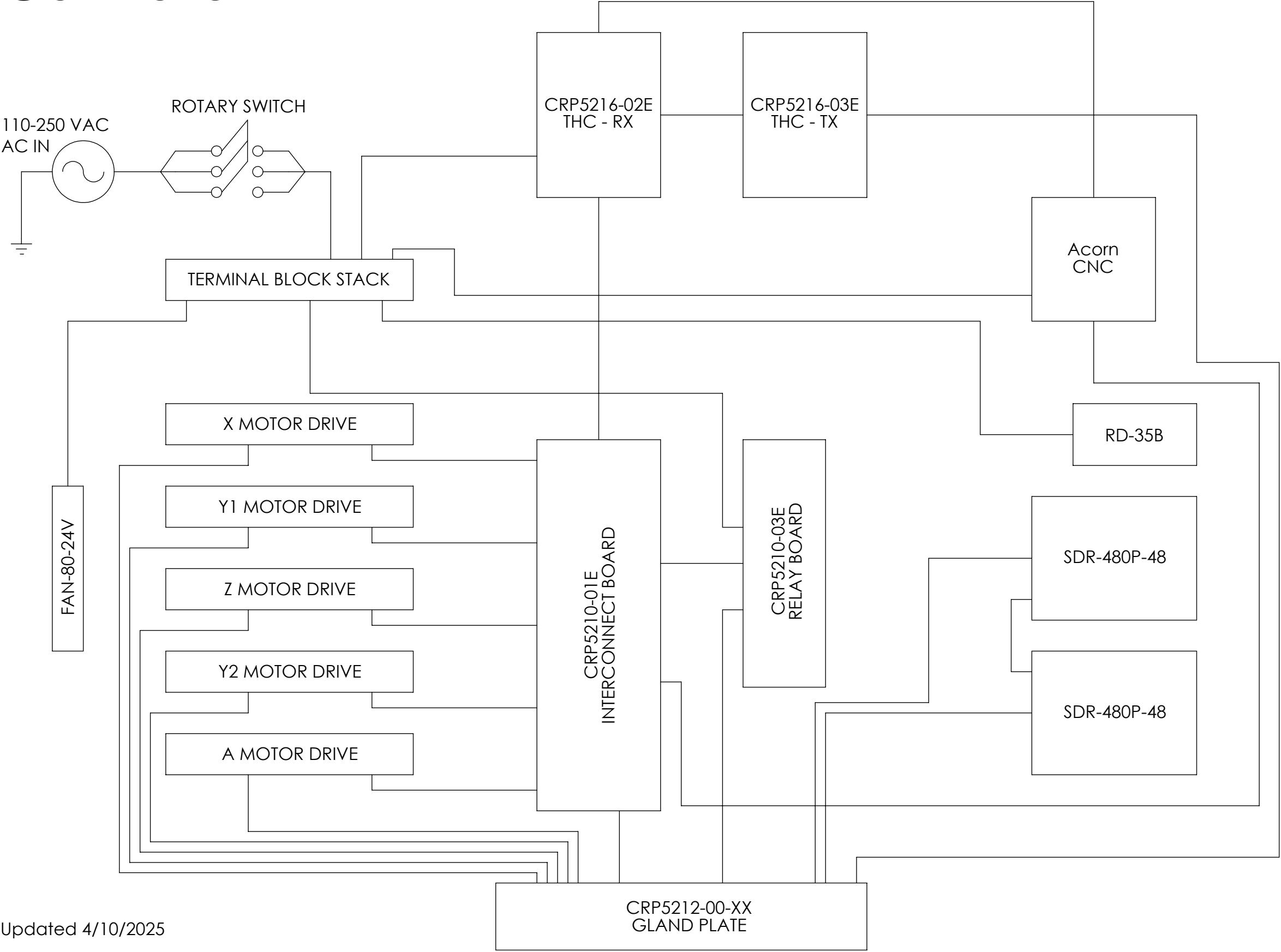


CRP5210-00-ELEC

Wiring Diagram, Centroid Stepper Controller



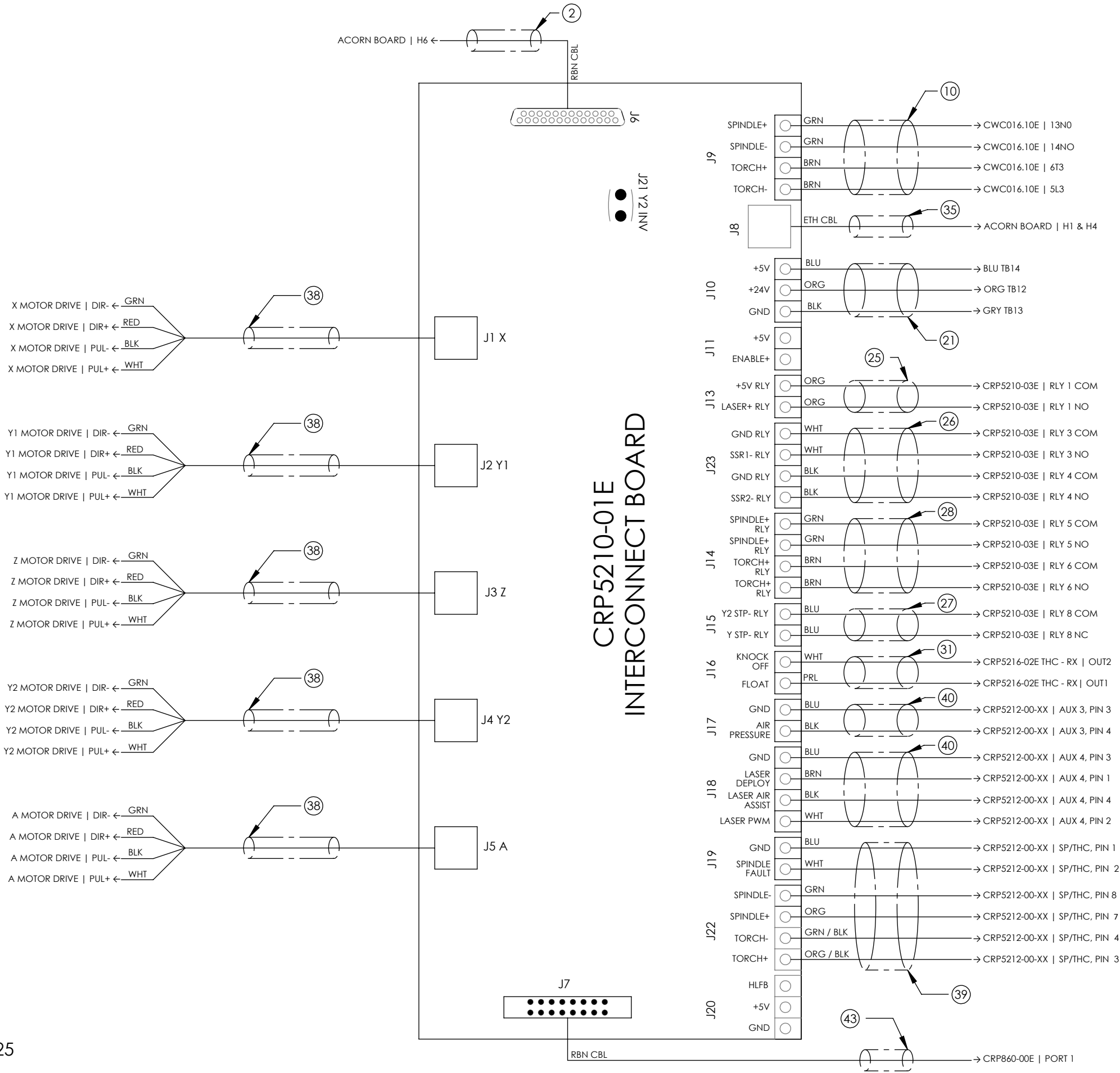
CRP5210-00-ELEC

Wire Harness ID Table

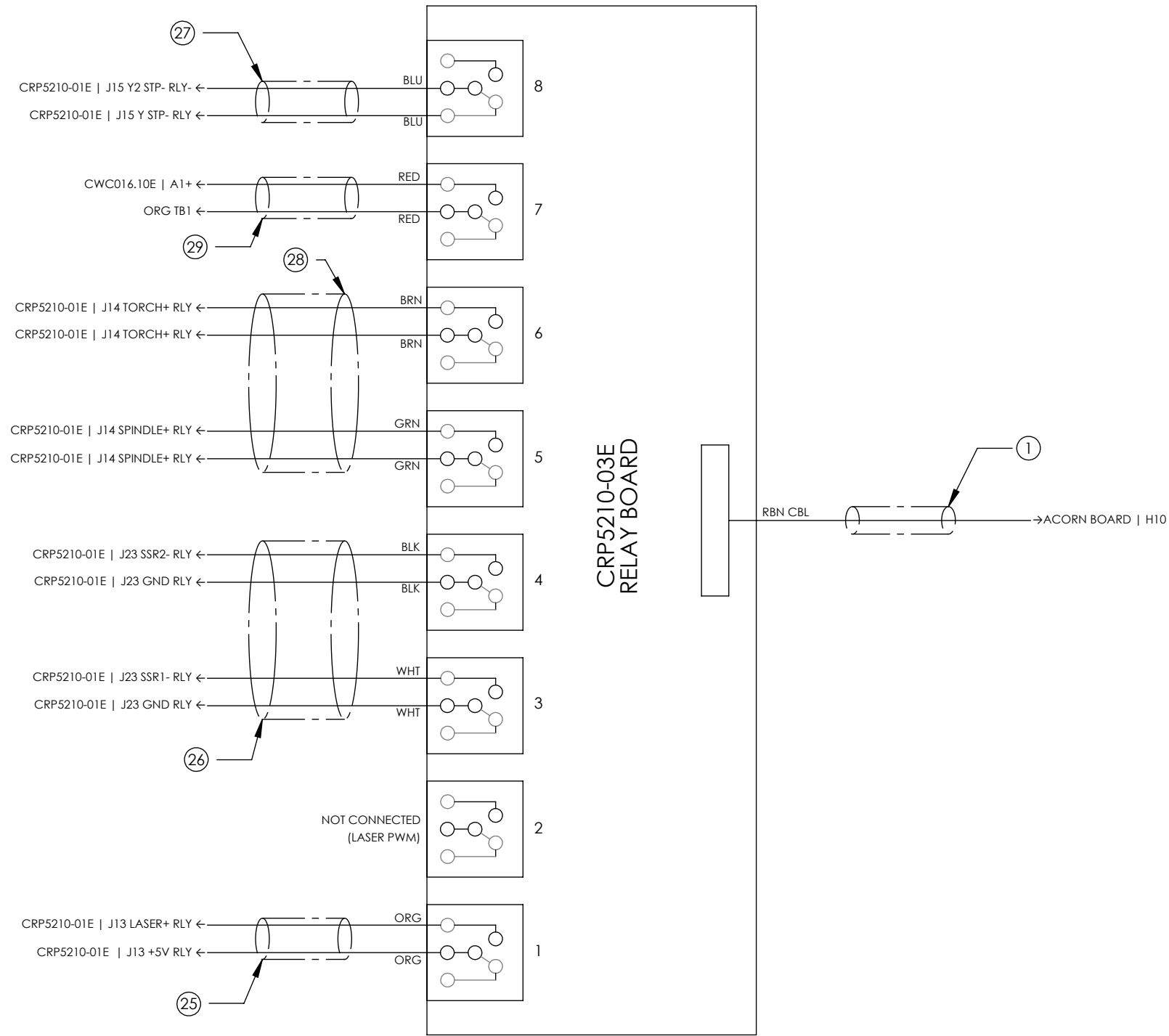
Wire Harness Table					
ID	PART NUMBER	DESCRIPTION			
①	CRP5213-01	Ribbon Cable, Female <-> Female, JST, 1'	②⑥	CRP5213-29	W/H, Interconnect <-> Relay, White/White/Black/Black, 4C
②	CRP5213-02	Ribbon Cable, Male <-> Female, DB25, 30cm (11.8")	②⑦	CRP5213-30	W/H, Interconnect <-> Relay, Blue/Blue, 2C
③	CRP5213-03	Ethernet Cable, CAT6, Shielded, Down Angle to Straight, 1M	②⑧	CRP5213-31	W/H, Interconnect <-> Relay, Green/Green/Brown/Brown, 4C
④	CRP5213-04	Cable, Male to Female, Down Angle, DB9	②⑨	CRP5213-32	W/H, Contactor & Terminal Blocks <-> Relay Board (Ferrule), 2C
⑤	CRP5213-05	W/H, SDR PSU (Ferrule) <-> SDR PSU (Ferrule), 2C	③⑦	CRP5213-34	W/H, THC TX (Ferrule)<-> 24V Power (Ferrule), 2C
⑥	CRP5213-06	W/H, SDR PSU (Ferrule) <-> Terminal Blocks (Ferrule), 3C, Near	③①	CRP5213-35	W/H, THC RX (Ferrule)<-> Interconnect Board (Ferrule), 2C
⑦	CRP5213-07	W/H, SDR PSU (Ferrule) <-> Terminal Blocks (Ferrule), 3C, Far	③②	CRP5213-36	W/H, THC RX (Ferrule)<-> 24V Power (Pluggable Connector), 2C
⑧	CRP5213-08	W/H, SDR PSU (Ferrule) <-> Distribution Blocks (Ferrule), 2C, N34	③③	CRP5213-37	Fiber Optic Cable, TX to RX, 5'
⑨	CRP5213-09	W/H, SDR PSU (Ferrule) <-> Distribution Blocks (Ferrule), 2C, N23	③④	CRP5213-38	W/H, Fan (Ferrule)<-> Distribution Blocks (Ferrule), 2C
⑩	CRP5213-10	W/H, Contactor (Fork) <-> Interconnect Board (Ferrule), 4C	③⑤	CRP5213-39	RJ-45 to Centroid Input Cable, 1 foot
⑪	CRP5213-11	W/H, Distribution Blocks (Ferrule)<-> Stepper Drive (Ferrule), 2C, X	③⑥	CRP5213-40	W/H, Outlet (QDC)<-> Ground TB (Ferrule), 1C
⑫	CRP5213-12	W/H, Distribution Blocks (Ferrule)<-> Stepper Drive (Ferrule), 2C, Y1	③⑦	CRP5213-41	W/H, THC RX (Pluggable Connector)<-> Distribution Blocks (Ferrule), 2C
⑬	CRP5213-13	W/H, Distribution Blocks (Ferrule)<-> Stepper Drive (Ferrule), 2C, Z	③⑧	CRP5313-03	W/H, RJ12 <-> Pluggable Terminal, Stepper Signals
⑭	CRP5213-14	W/H, Distribution Blocks (Ferrule)<-> Stepper Drive (Ferrule), 2C, Y2	③⑨	CRP860-02E	W/H, Panel mount (14 pin) <-> PCB/VFD, 3HP/4HP/Plasma
⑮	CRP5213-15	W/H, Distribution Blocks (Ferrule)<-> Stepper Drive (Ferrule), 2C, A	④⑦	CON-M12-04	M12 Straight Connector, Female, 4-Pin, A Coded, Panel Mount
⑯	CRP5213-17	W/H, Fuse Blocks (Ferrule), 2C	④①	CUS-CNR034	W/H, Panel Mount (XLR, 7A) <-> Stepper Drive
⑰	CRP5213-18	W/H, Terminal Block (Ferrule) <-> Ground Stud (Ring), 1C	④②	CUS-CNR147	W/H, Panel mount (DB9F, 5A) <-> Stepper Drive
⑱	CRP5213-20	W/H, Terminal Blocks (Ferrule) to Contactor (Fork), 2C	④③	Ribbon-12-16P-16P	Ribbon Cable, 12" (300mm)
⑲	CRP5213-21	W/H, Terminal Blocks (Ferrule) <-> RD35 PSU (Fork), 3C	④④	TJA5.2-2	Jumper, Terminal Block, 2.5mm Pitch
⑳	CRP5213-22	W/H, Distribution Blocks (Ferrule) <-> RD35 PSU (Fork), 3C			
㉑	CRP5213-23	W/H, Distribution Blocks (Ferrule) <-> Interconnect Board (Ferrule), 3C			
㉒	CRP5213-24	W/H, Distribution Blocks (Ferrule) <-> Acorn (Ferrule), 2C			
㉓	CRP5213-25	W/H, Distribution Block (Ferrule) <-> Acorn (Ferrule), 1C			
㉔	CRP5213-49	W/H, ACORN ANALOG CAPACITOR			
㉕	CRP5213-28	W/H, Interconnect <-> Relay, Orange/Orange, 2C			



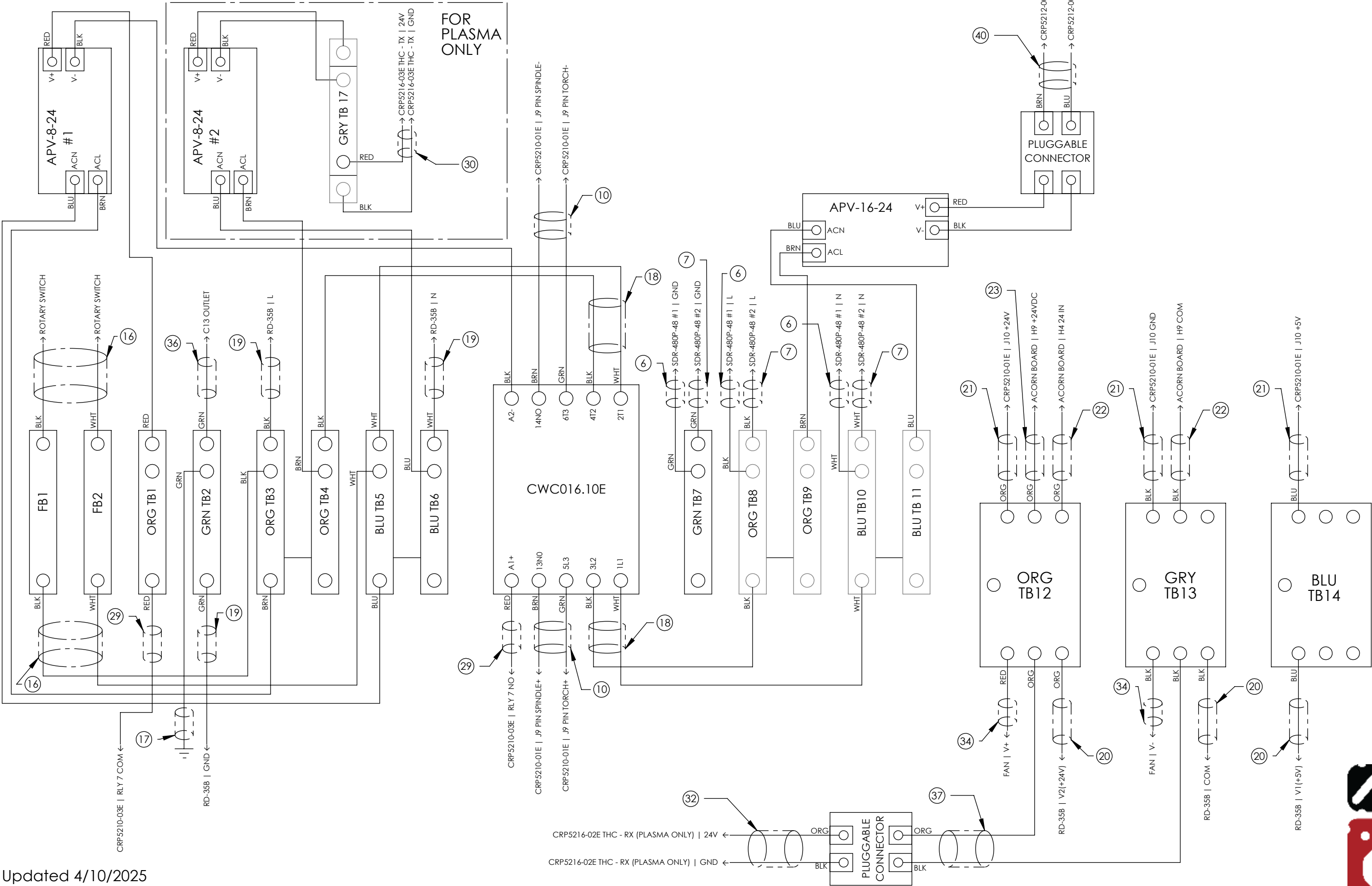
CRP5210-01E Interconnect Board Connections



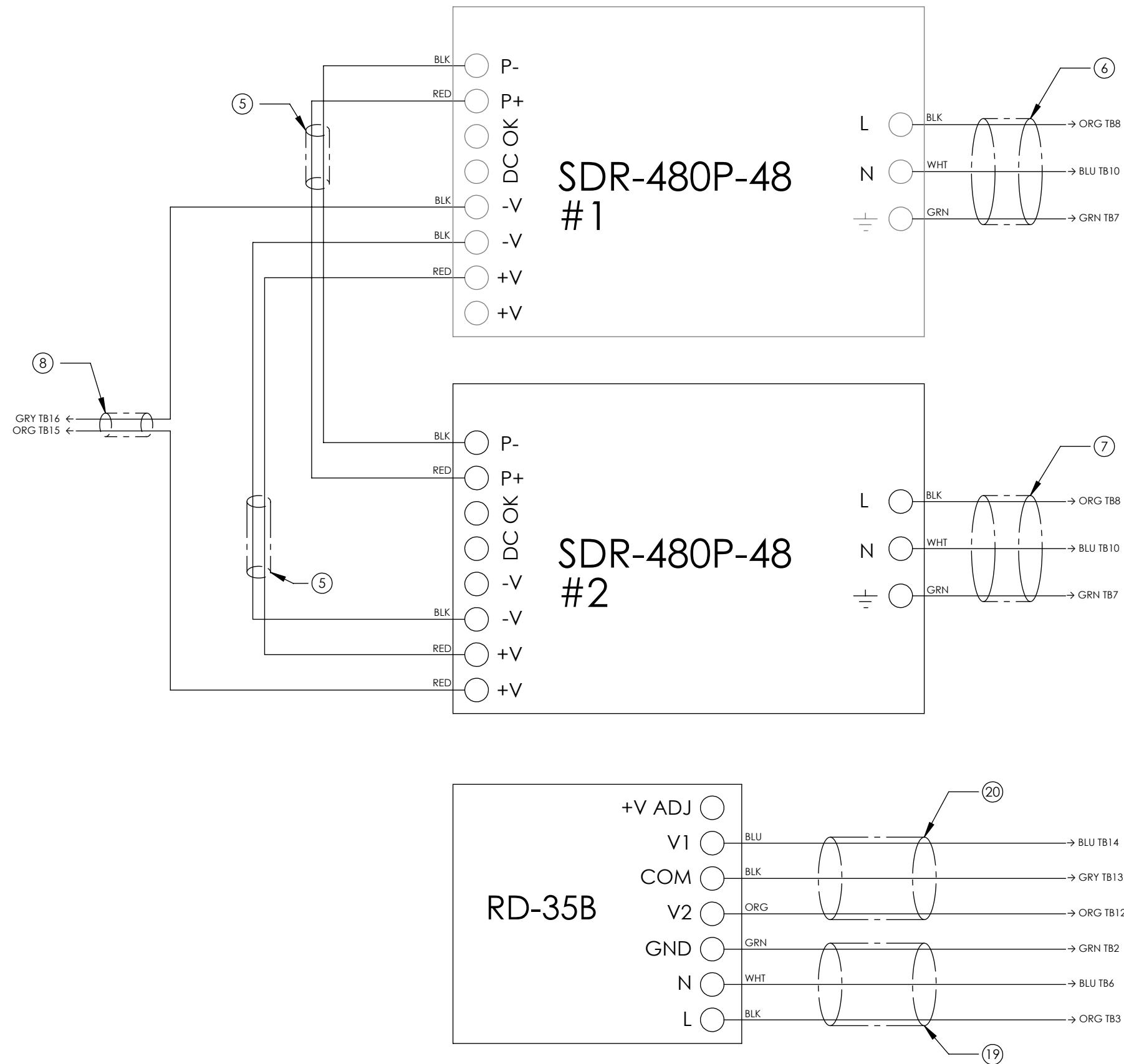
CRP5210-03E Relay Board



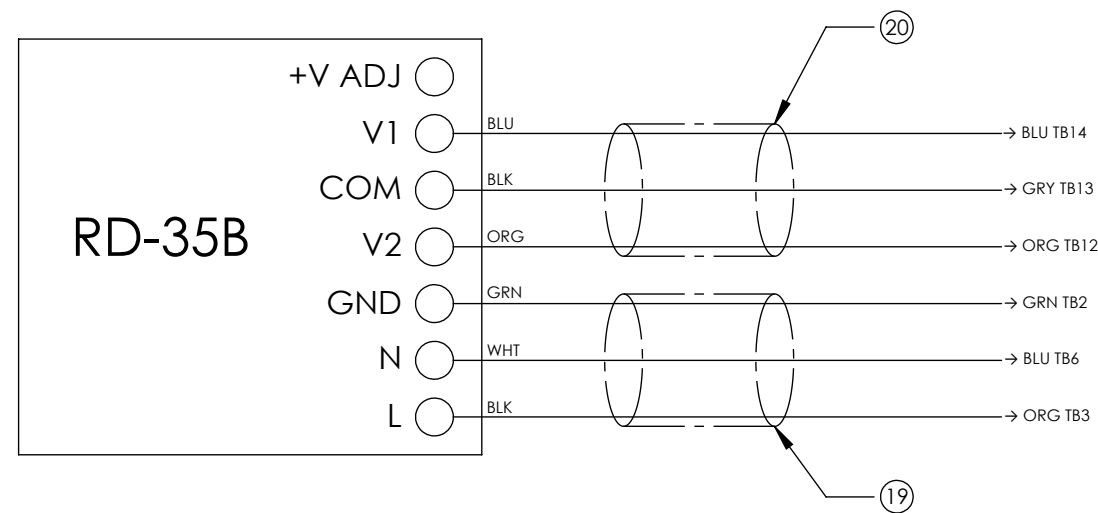
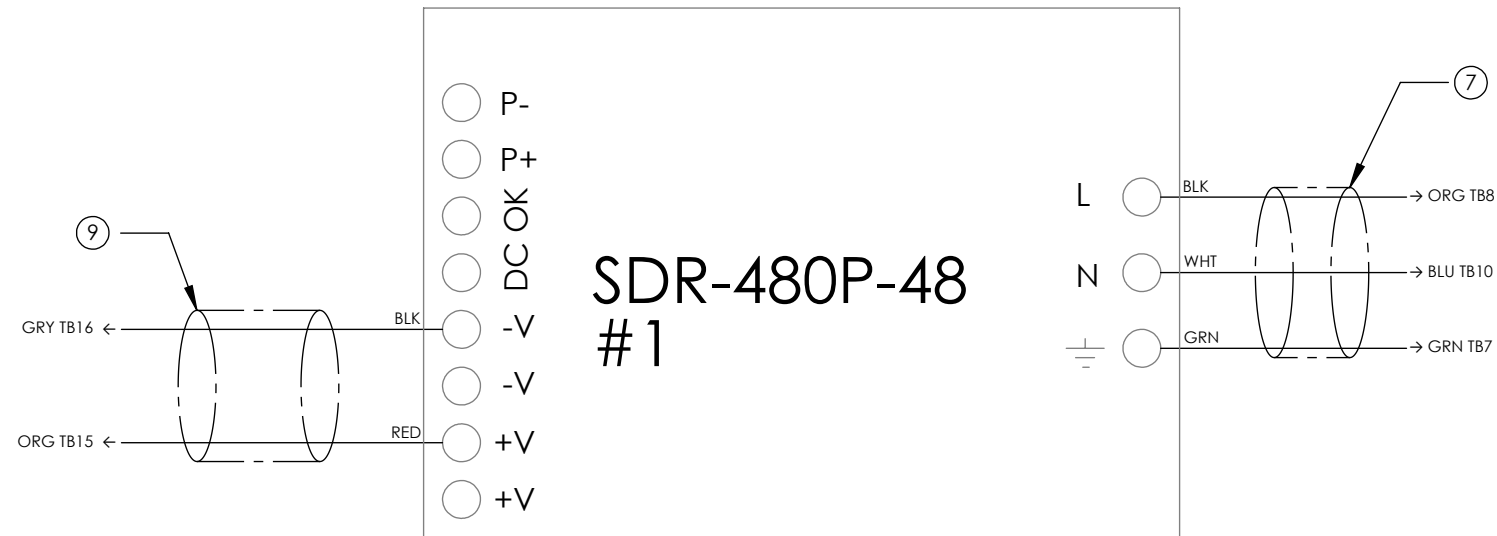
Terminal Block Stack



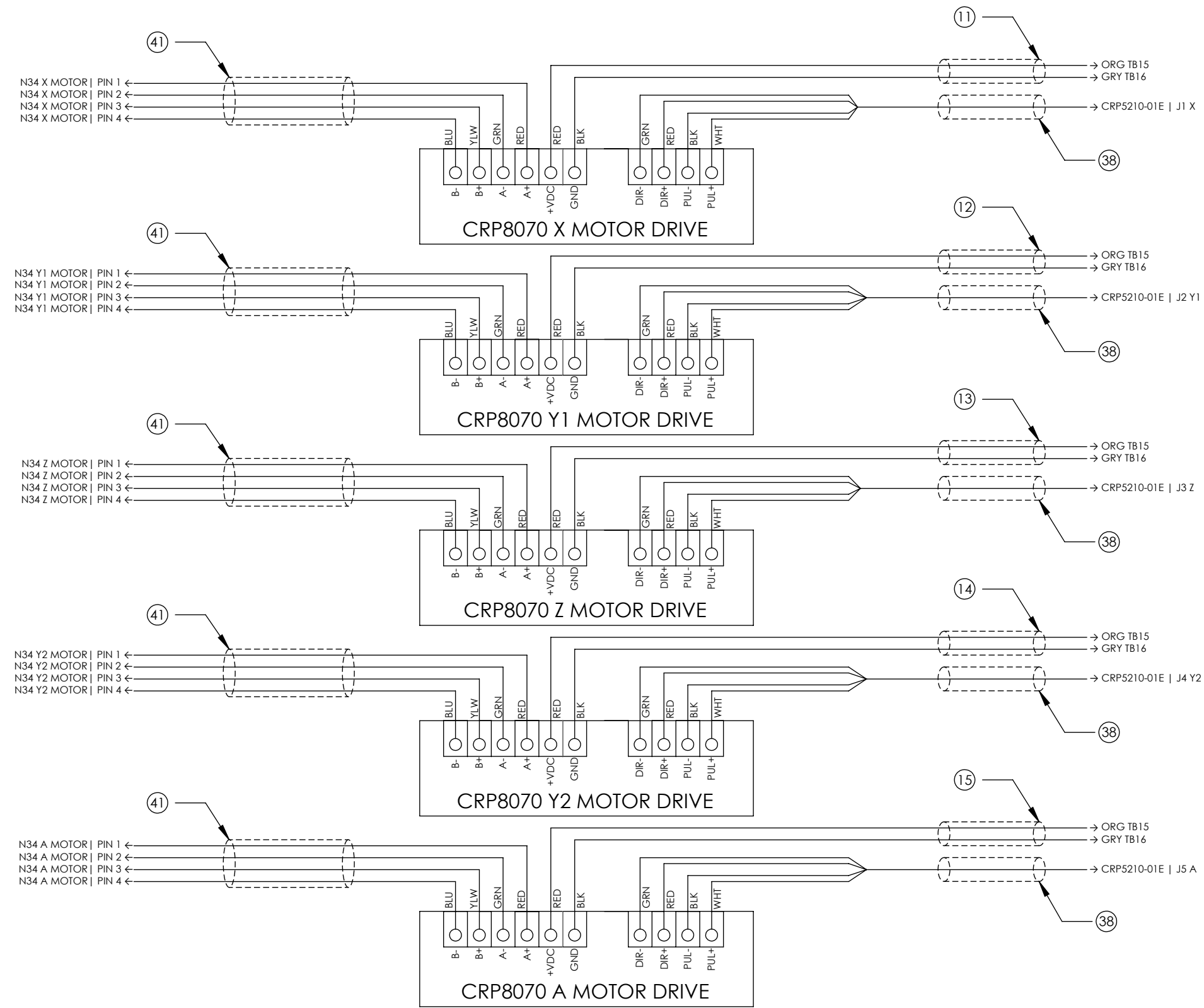
Power Supplies (N34)



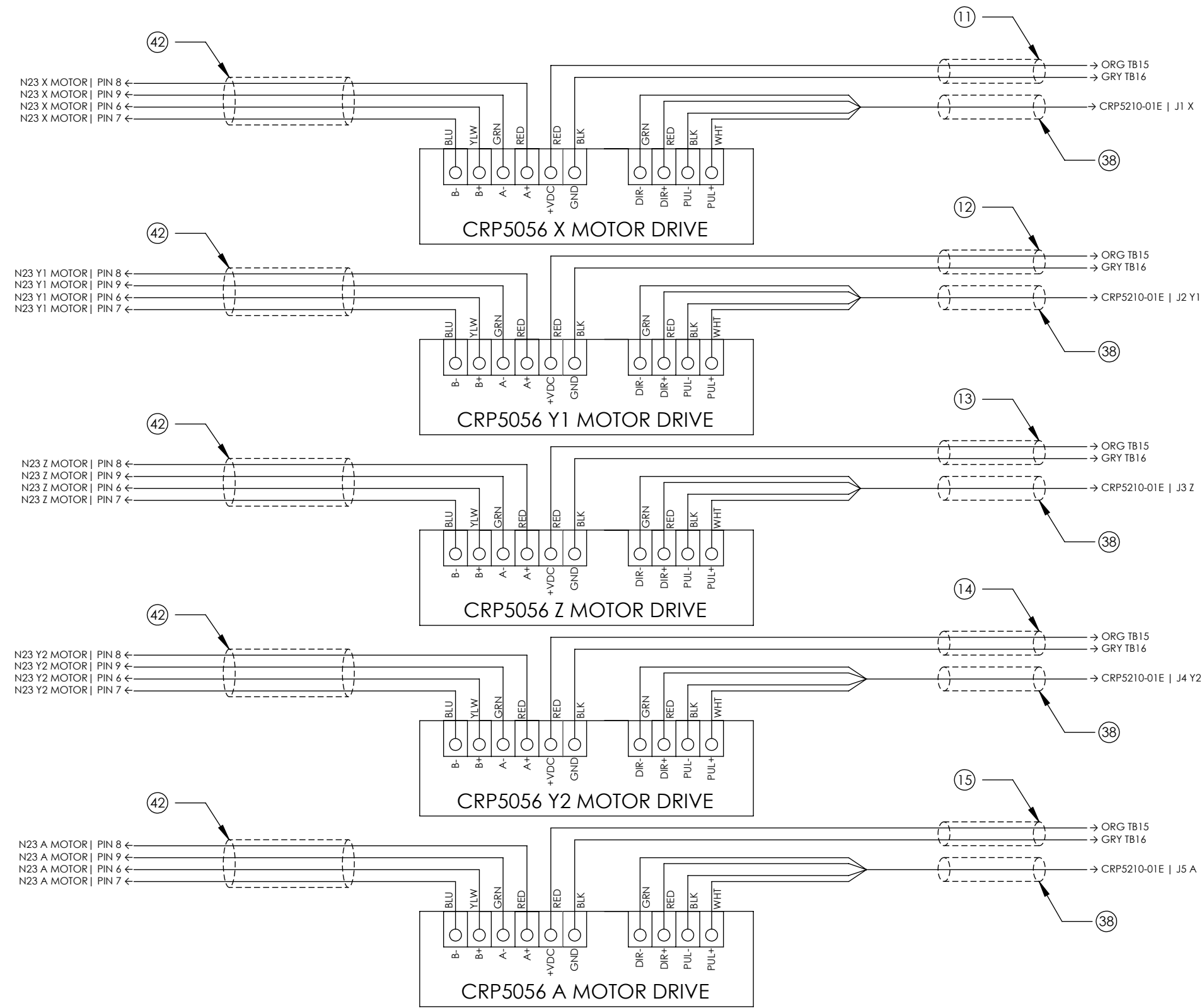
Power Supplies (N23)



Motor Drivers (N34)



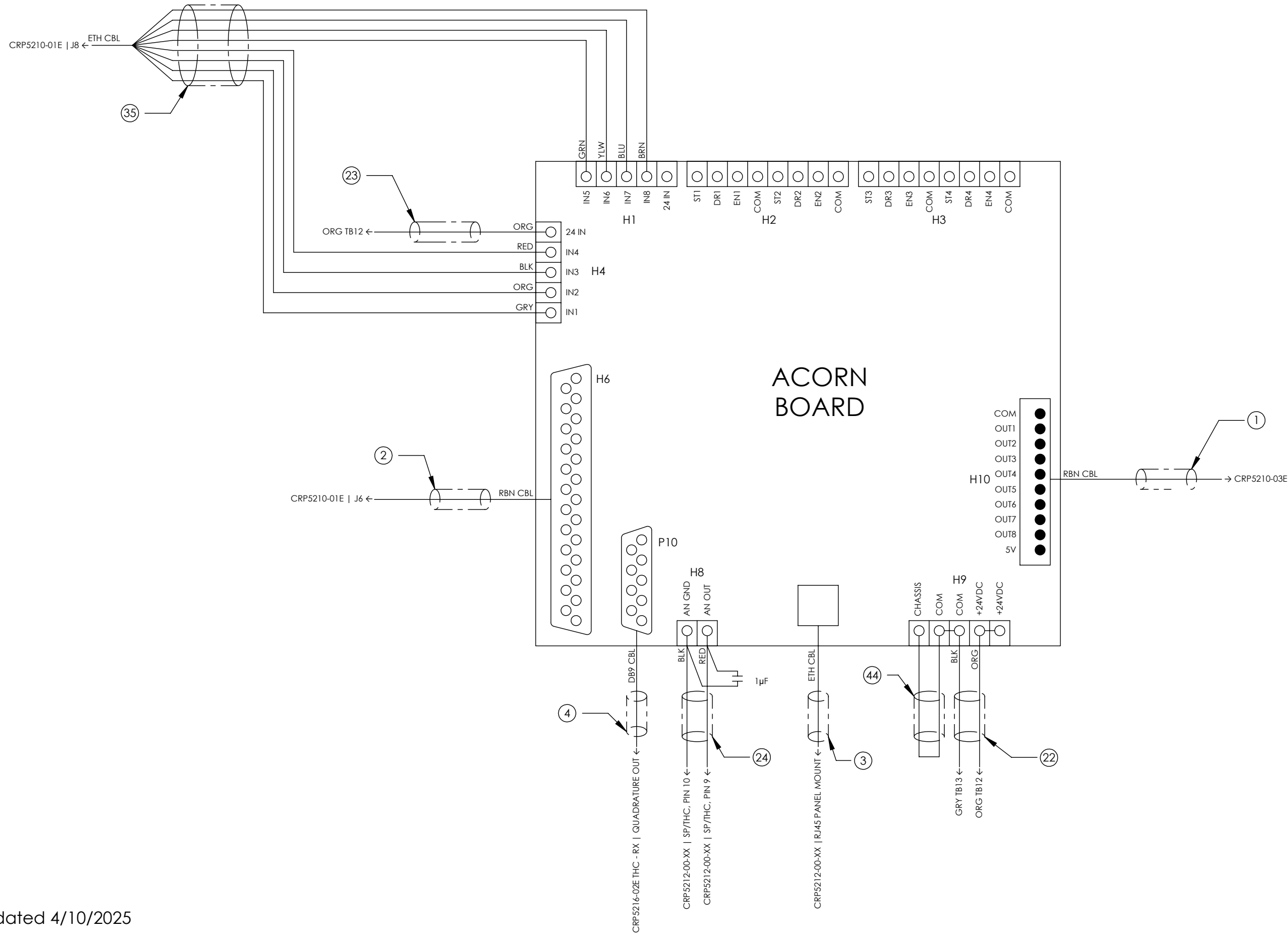
Motor Drivers (N23)



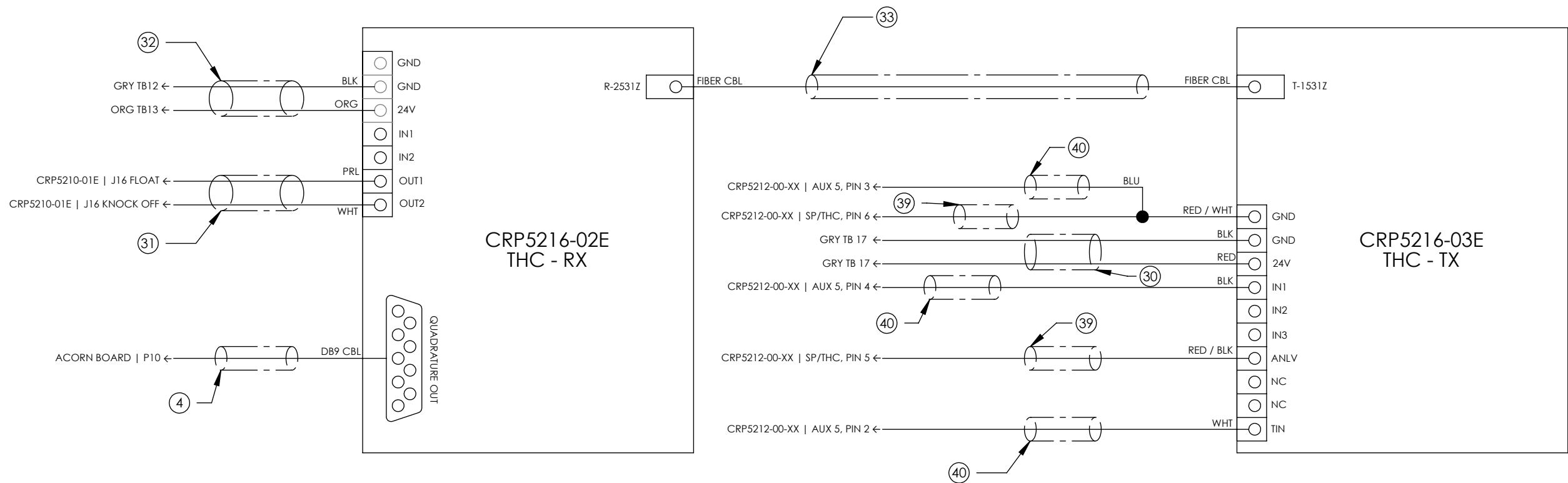
Acorn Board

NOTES

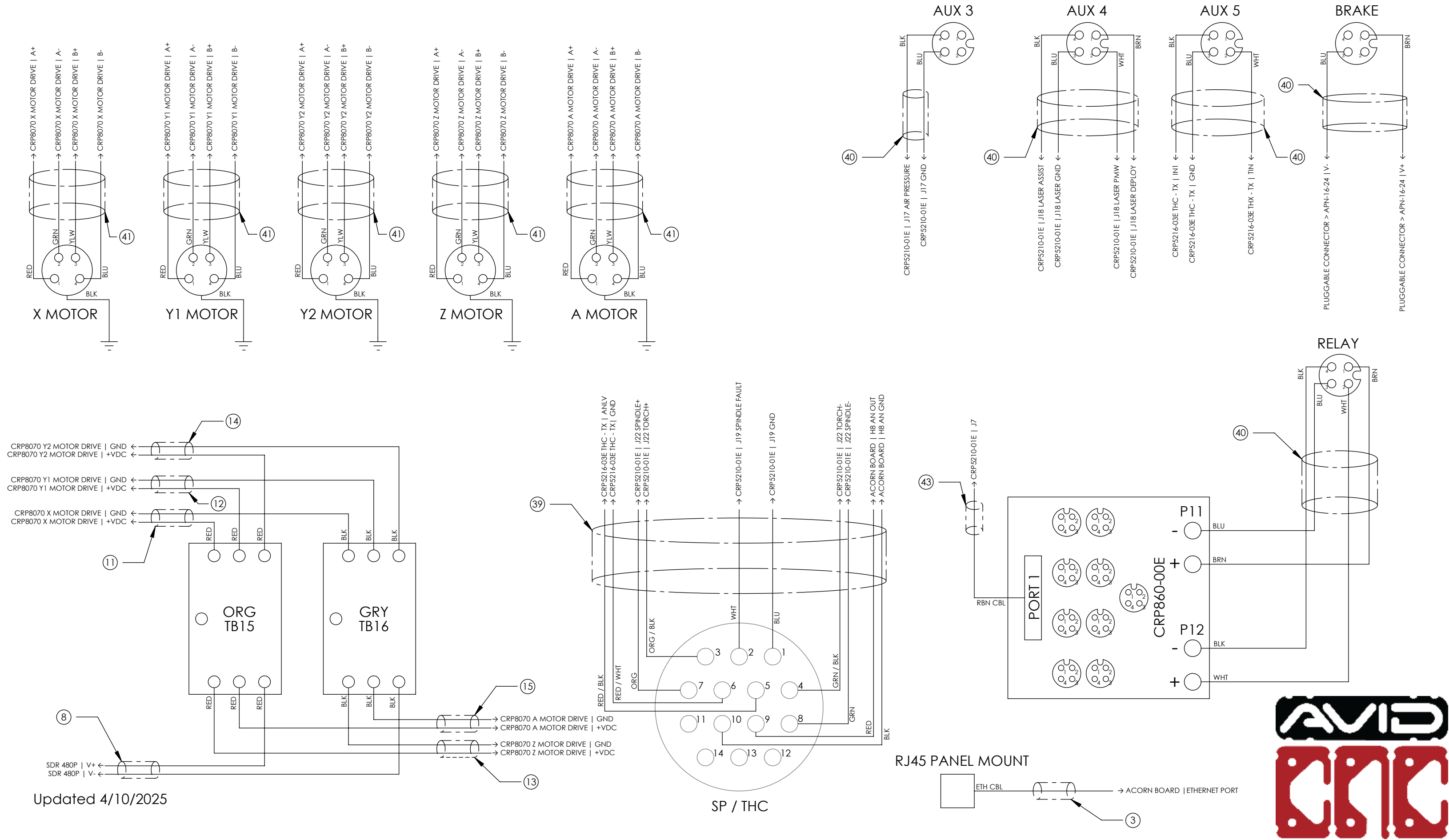
1. PRIOR TO 4/2025 HARNESS ⁽²⁴⁾ WAS CRP5213-26 WITHOUT CAPACITOR.



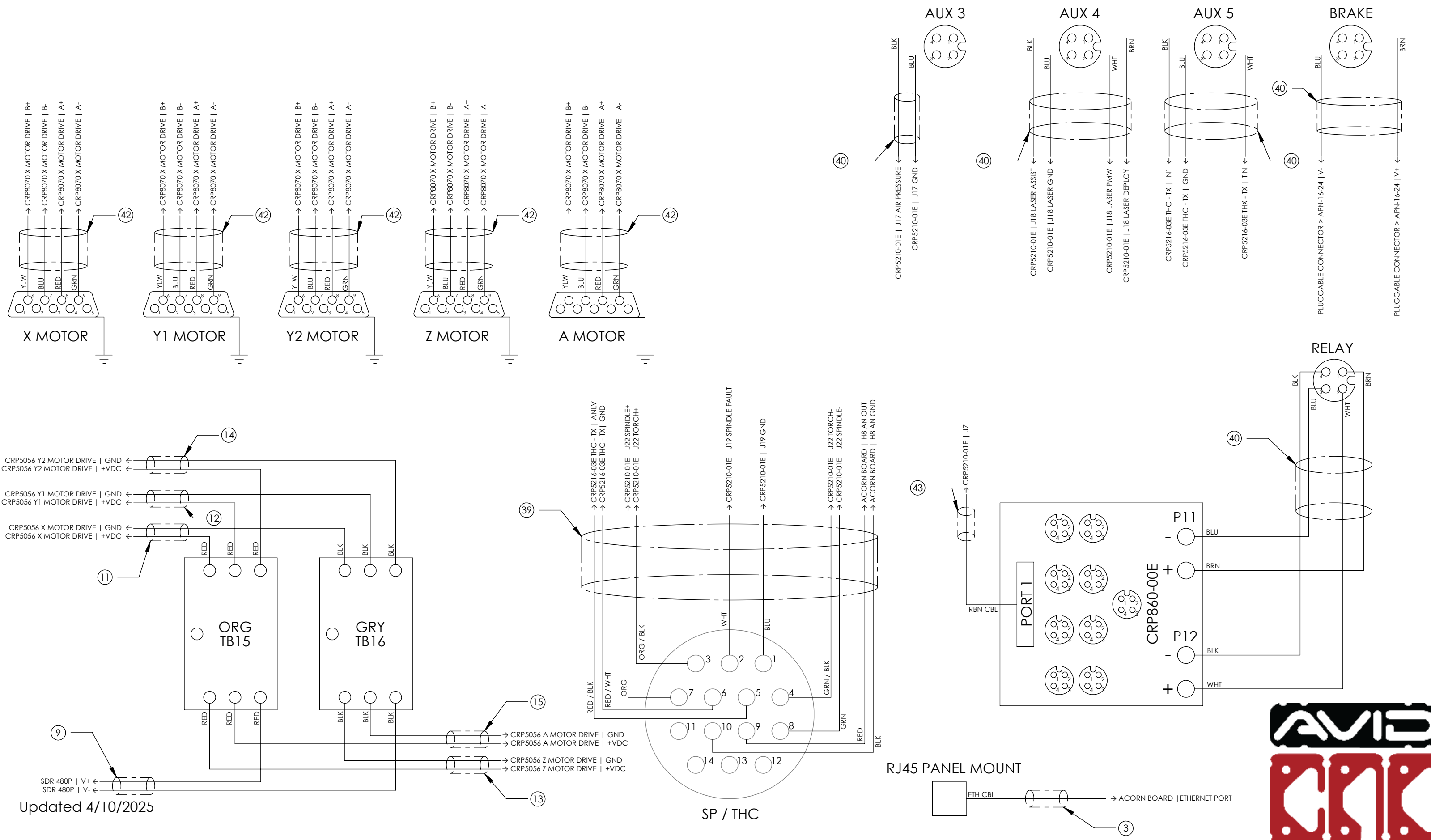
CRP5210-00 Top Lid (Plasma Systems Only)



CRP5212-00-XX N34 Gland Plate



CRP5212-00-XX N23 Gland Plate



Updated 4/10/2025

