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PAGE 34, 35	ADDED			Modification Count

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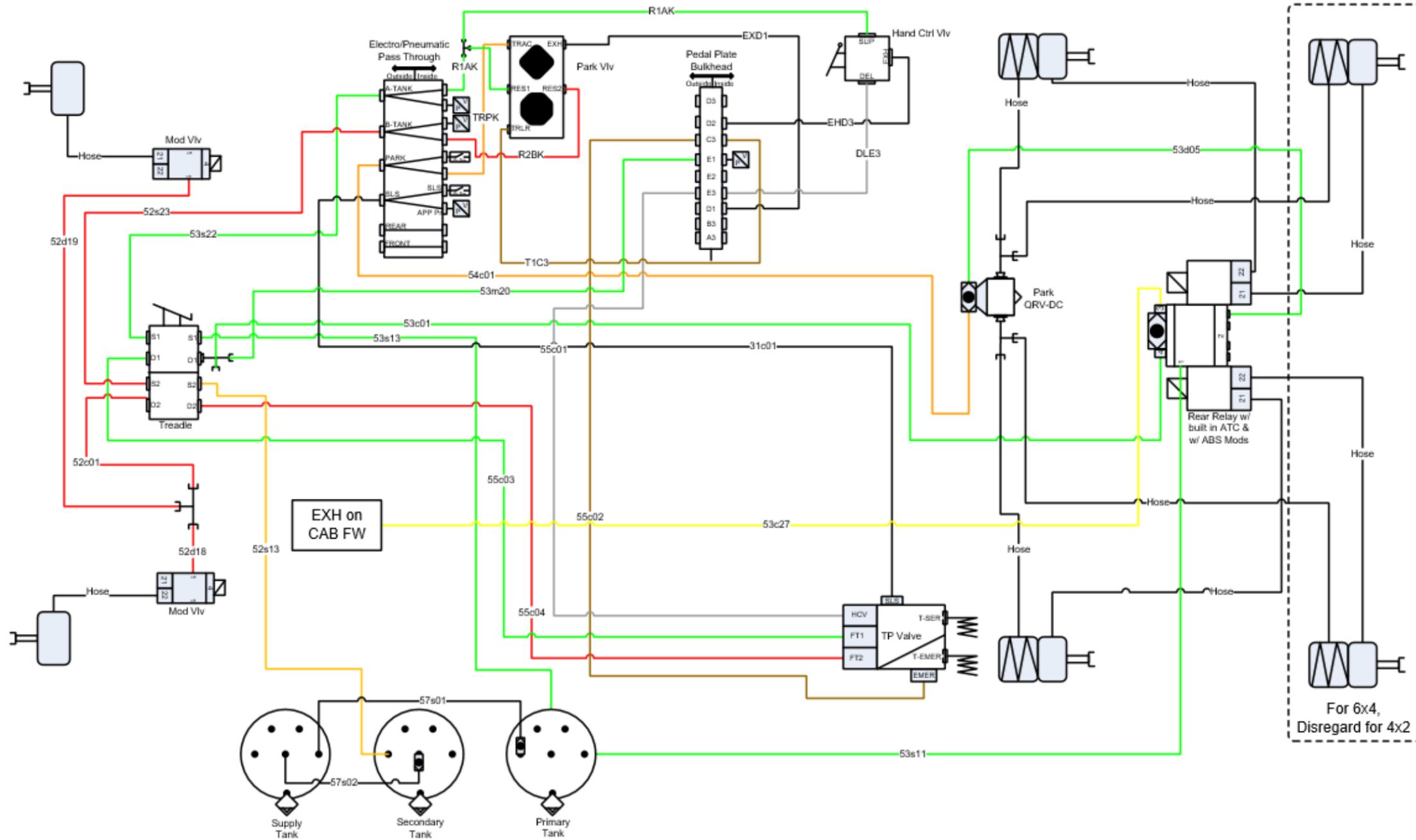
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Page No

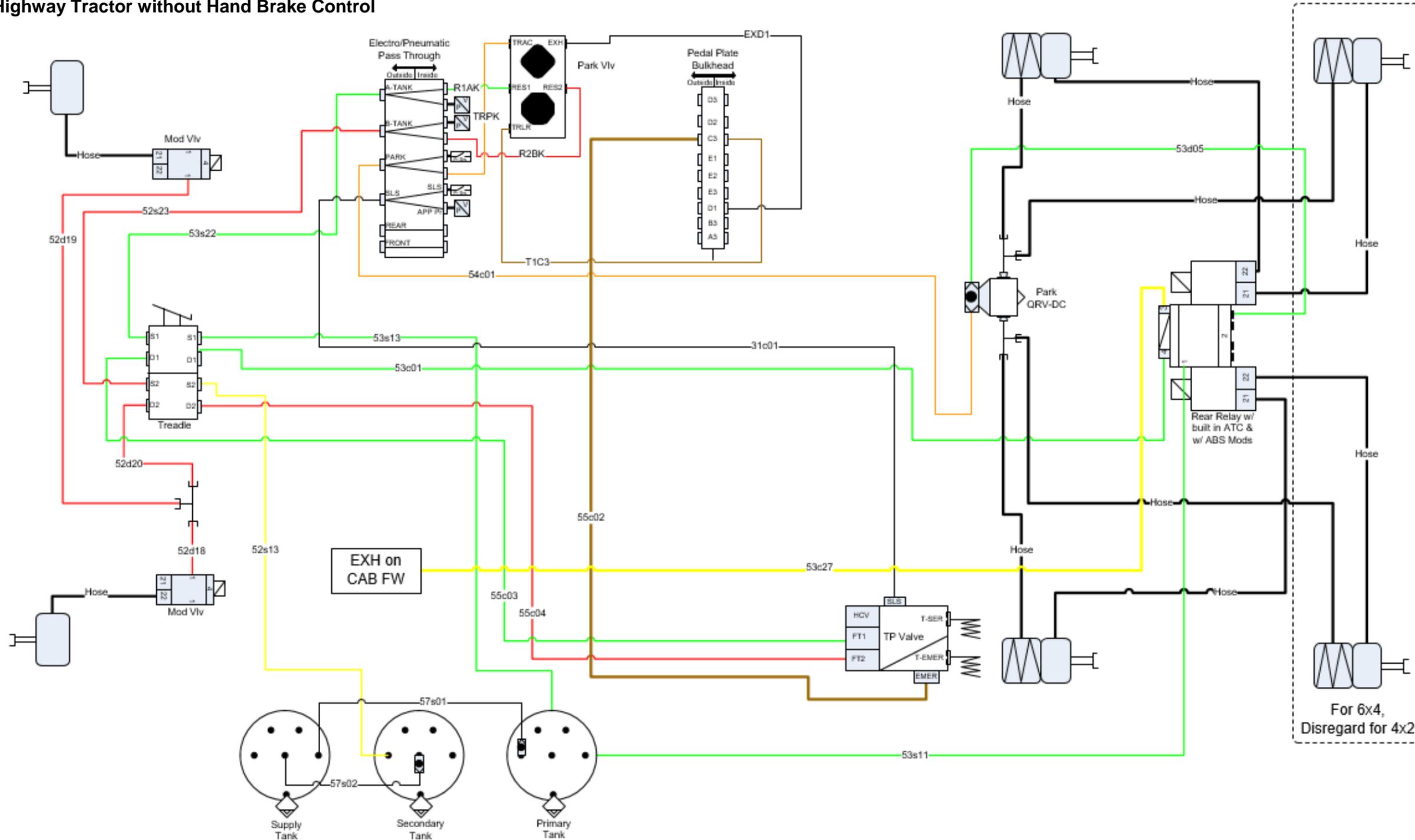
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# 1 Highway Tractor



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## 2 Highway Tractor without Hand Brake Control

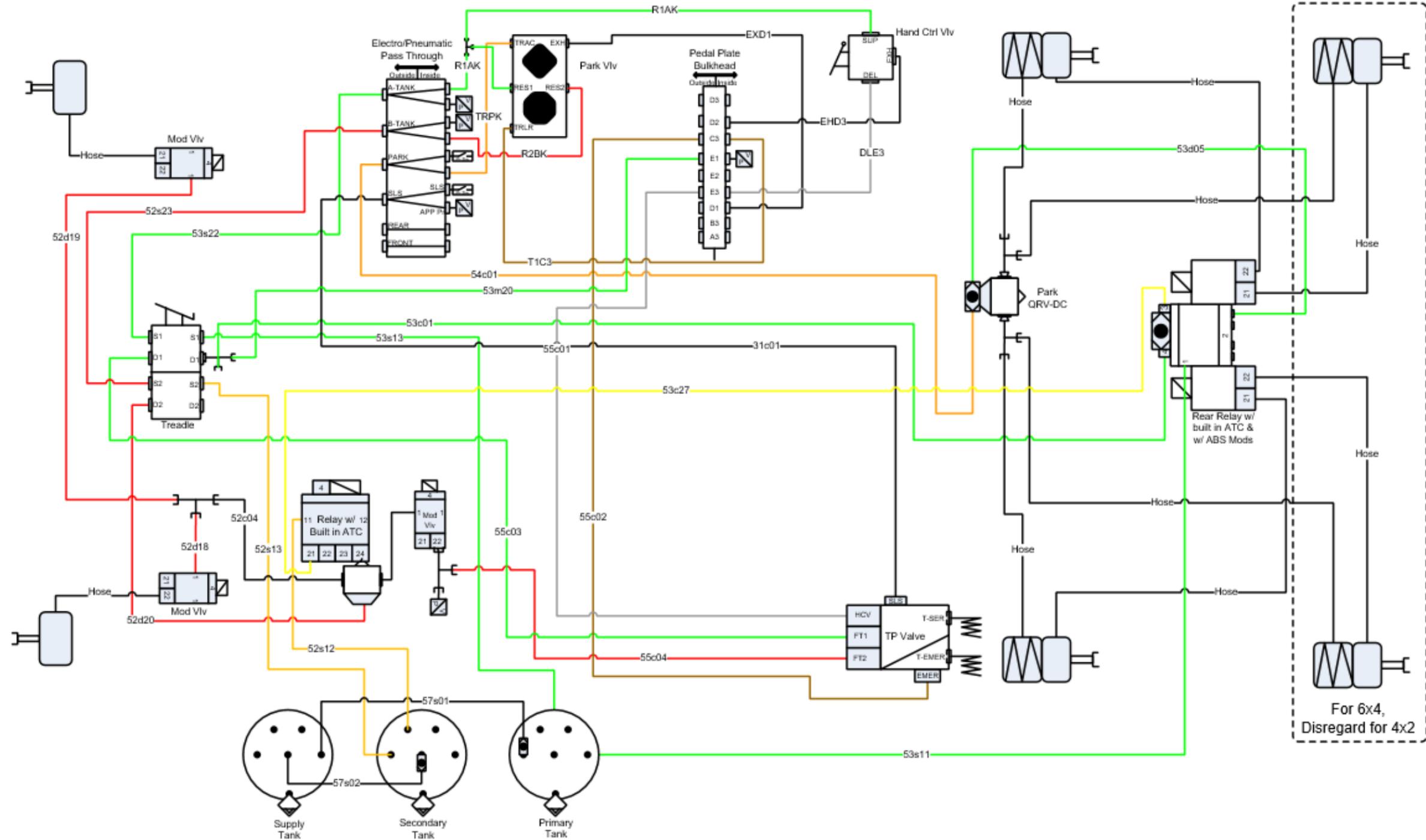


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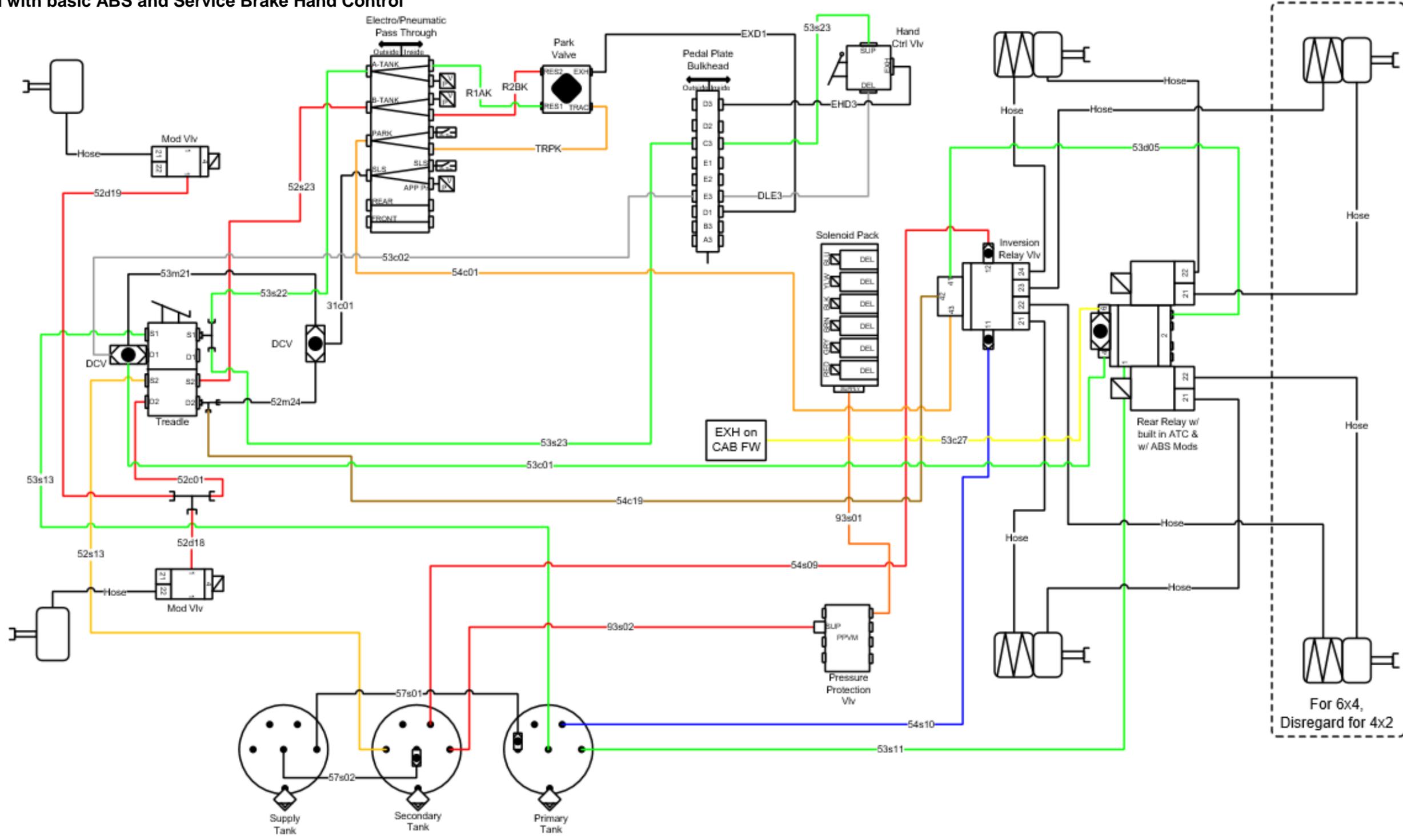


#### 4 Highway Tractor with ESP



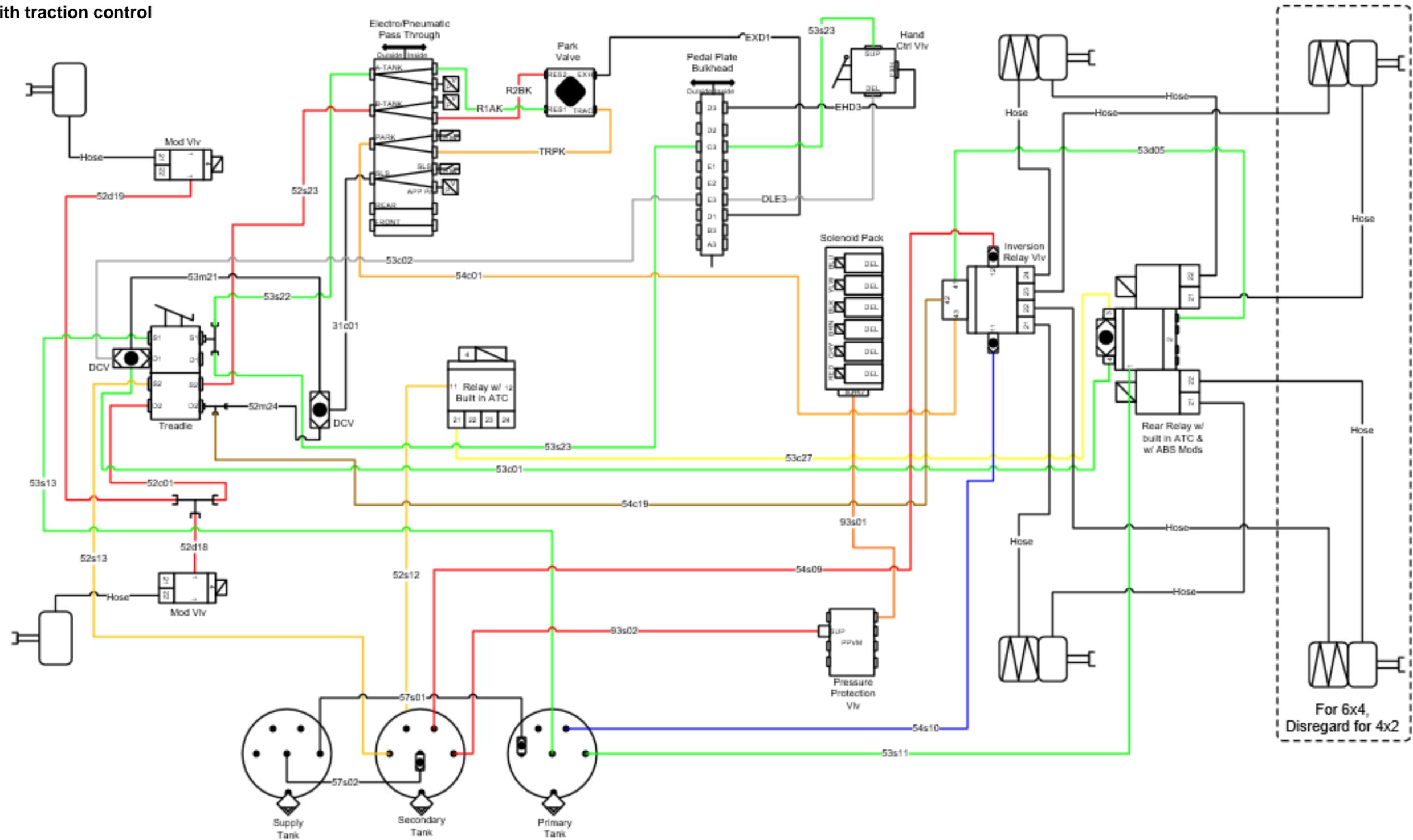
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5 Rigid with basic ABS and Service Brake Hand Control



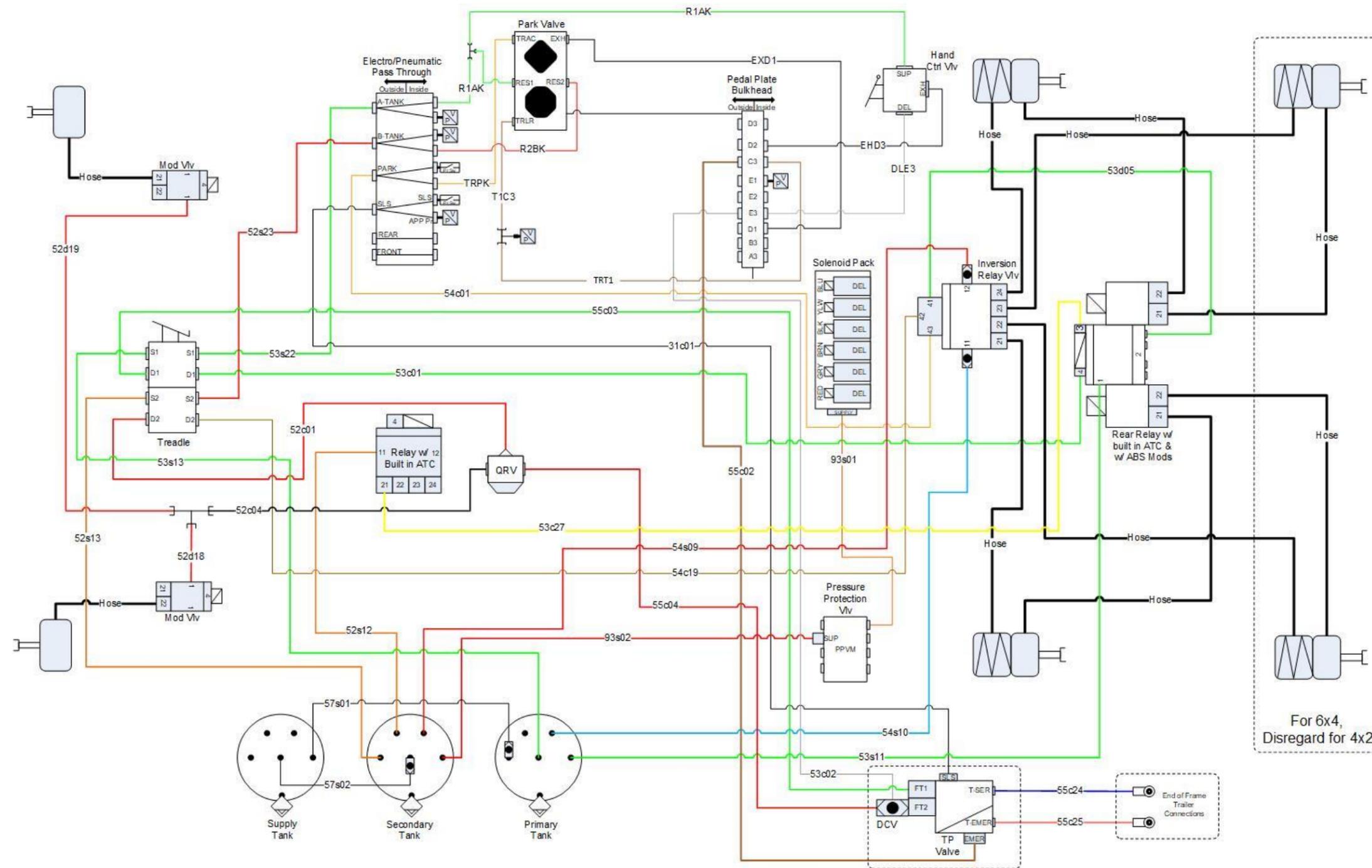
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6 Rigid with traction control



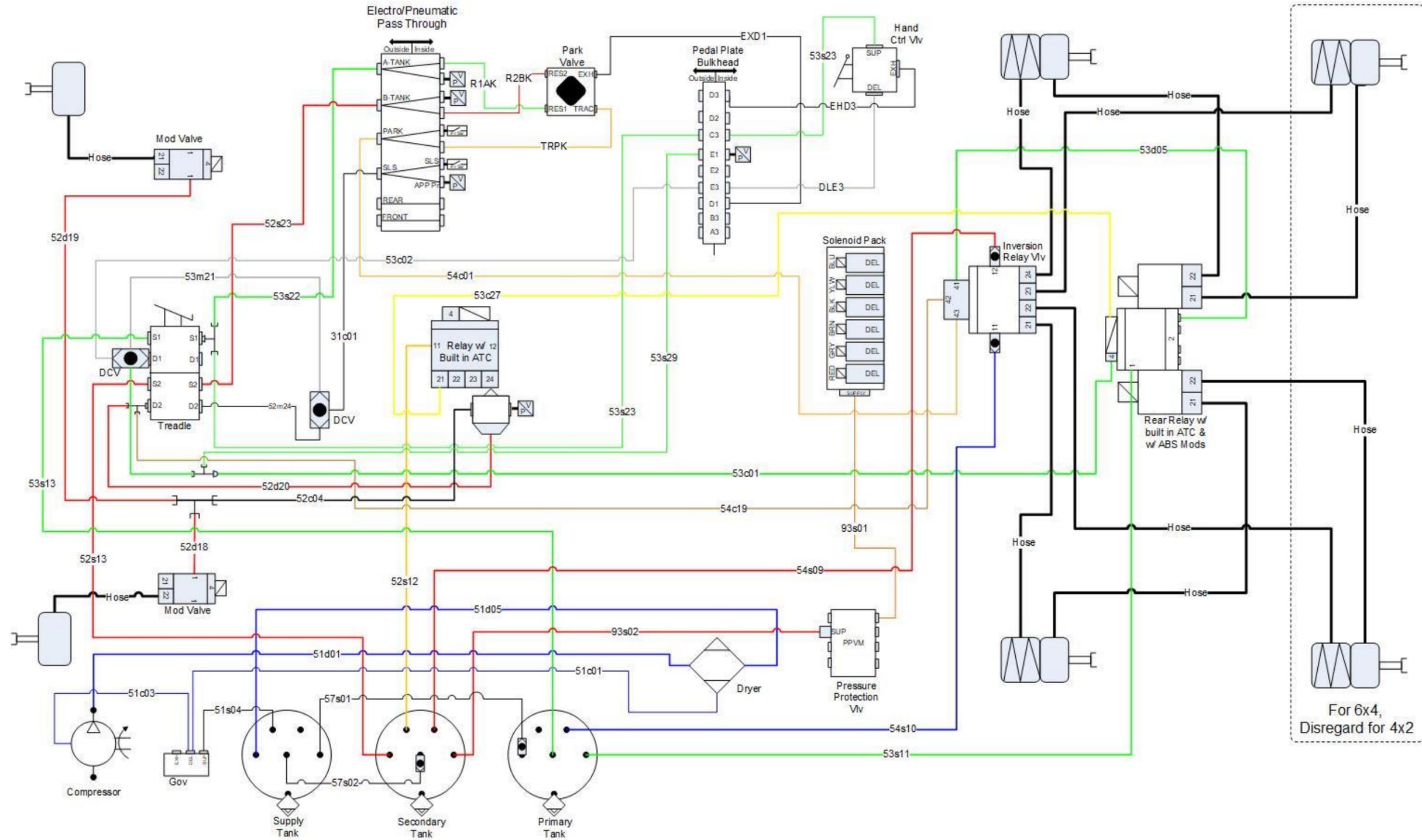
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7 Rigid with traction control & EOF air



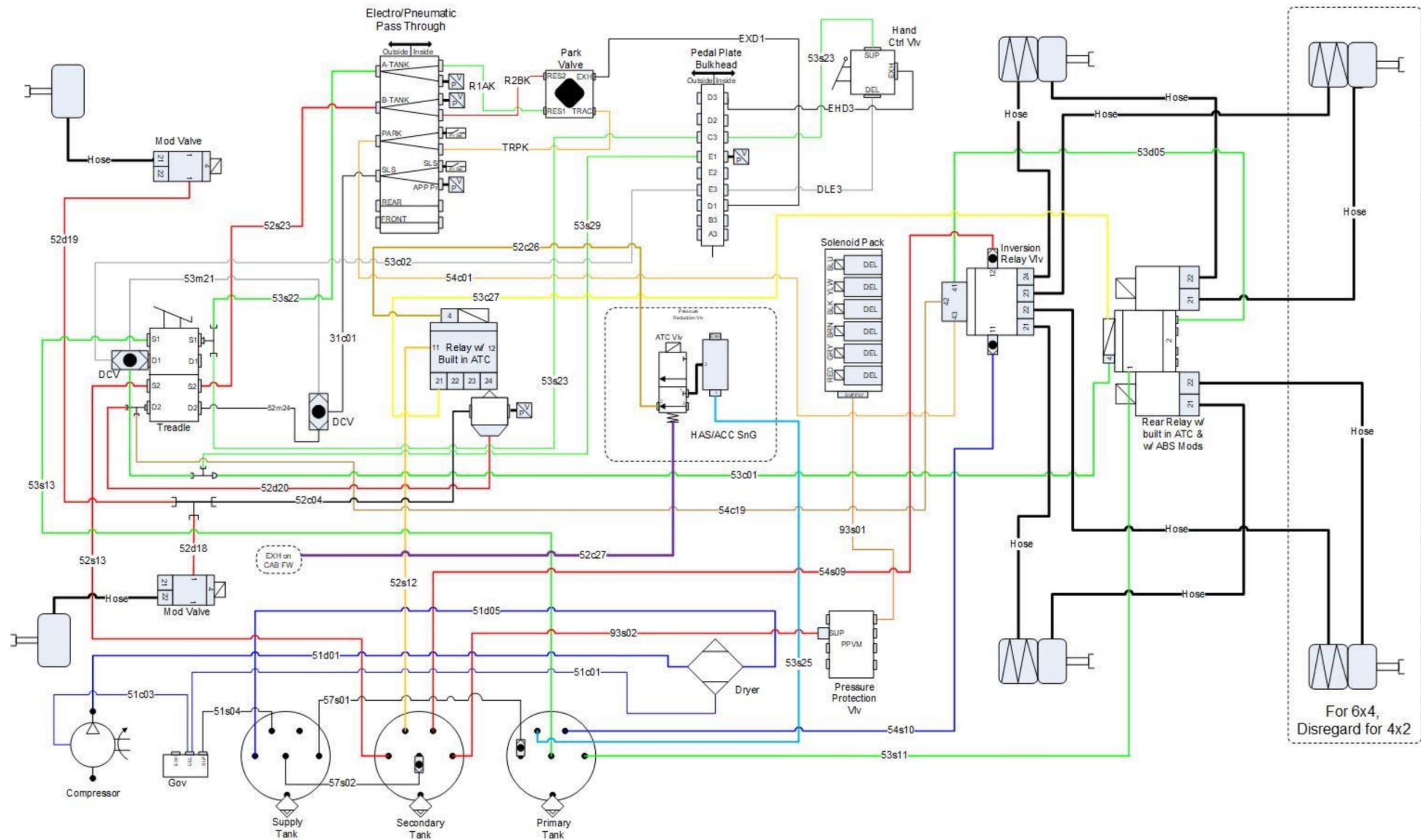
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# 8 Rigid with ESP and Service Brake Hand Control



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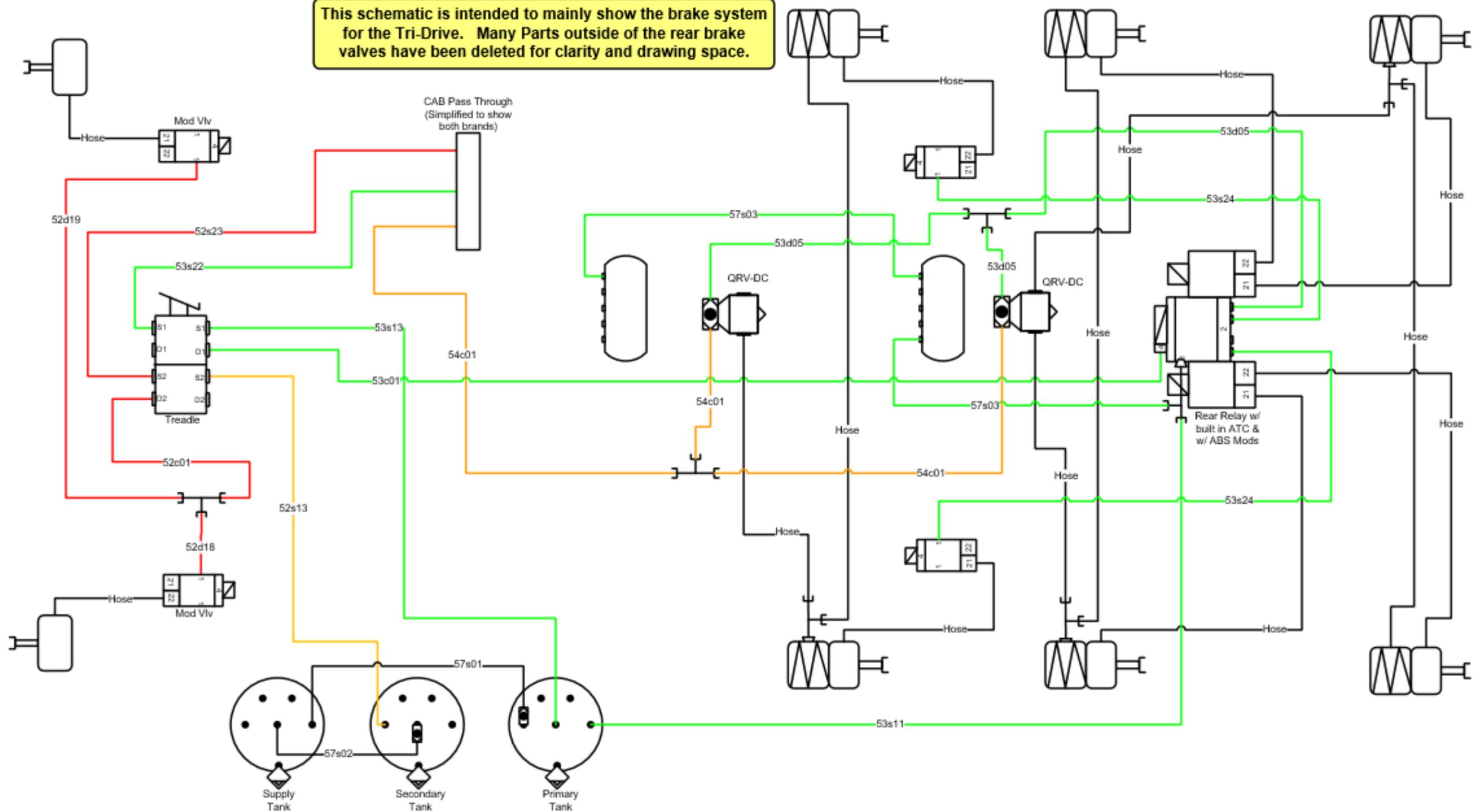
9 Rigid with ESP/Traction Control only, Service Brake Hand Control, and with Hillstart



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10 Tri-Drive Brake System, Highway Tractor

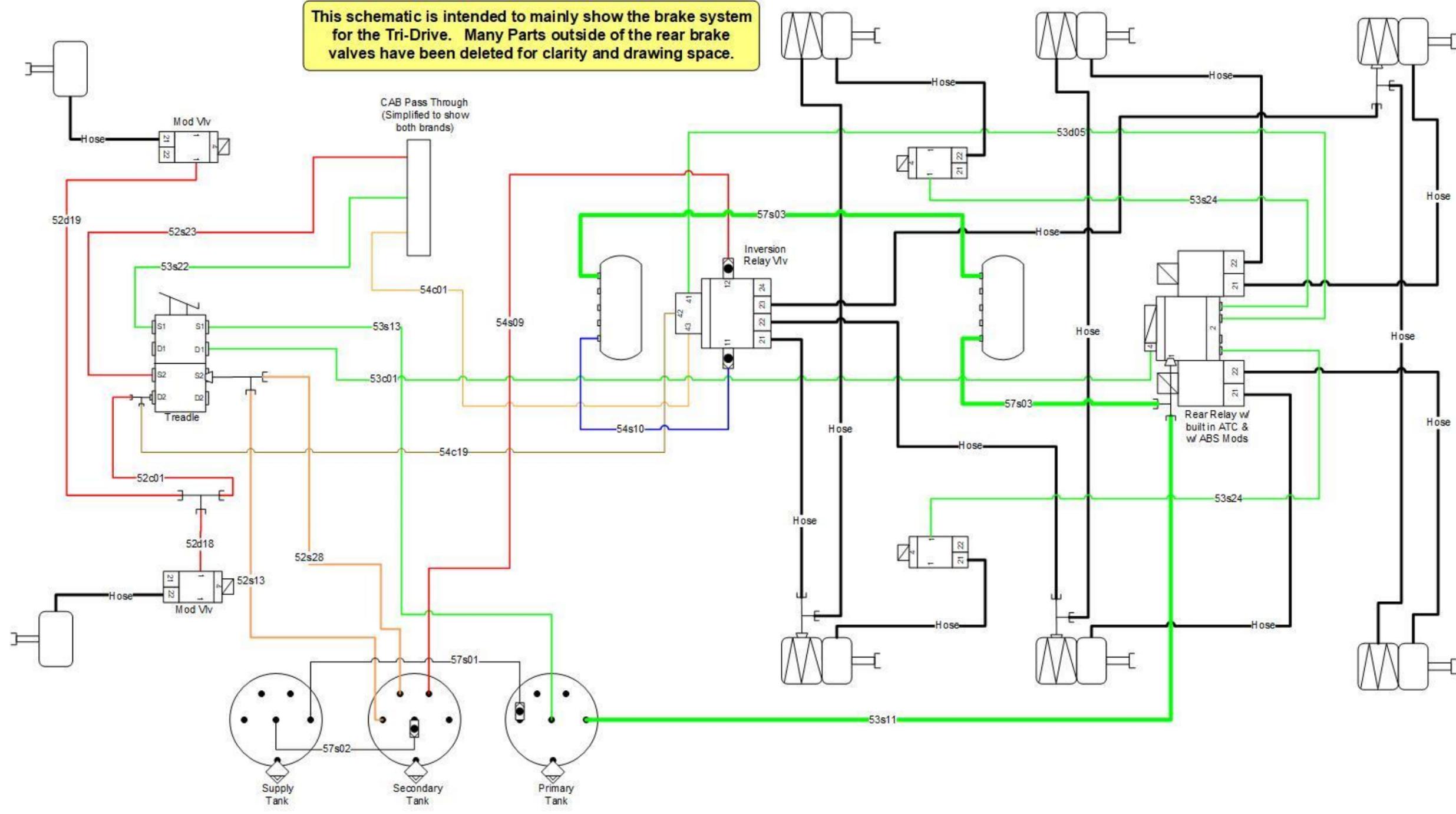
This schematic is intended to mainly show the brake system for the Tri-Drive. Many Parts outside of the rear brake valves have been deleted for clarity and drawing space.



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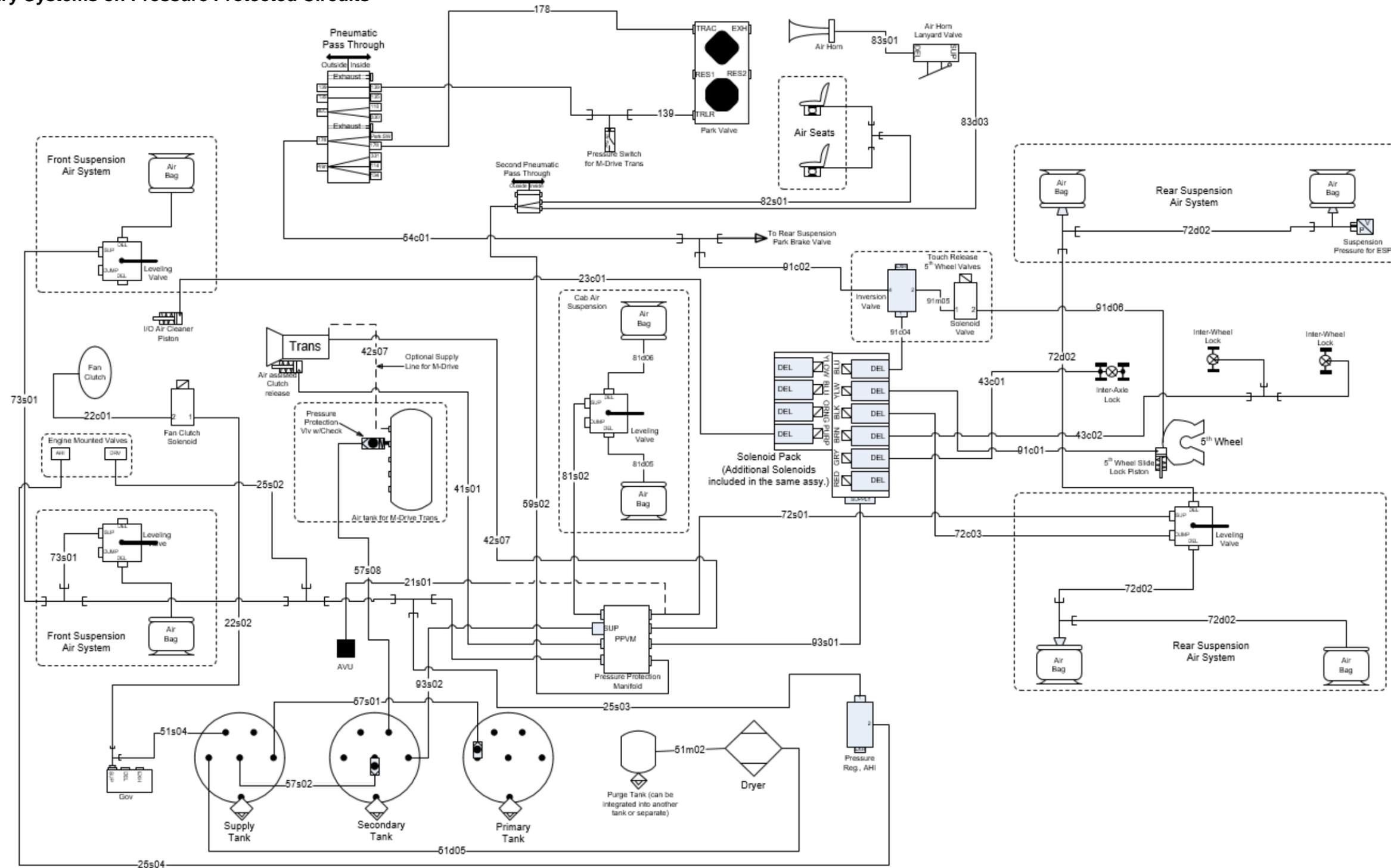
# 11 Tri-Drive Brake System, Rigid

This schematic is intended to mainly show the brake system for the Tri-Drive. Many Parts outside of the rear brake valves have been deleted for clarity and drawing space.



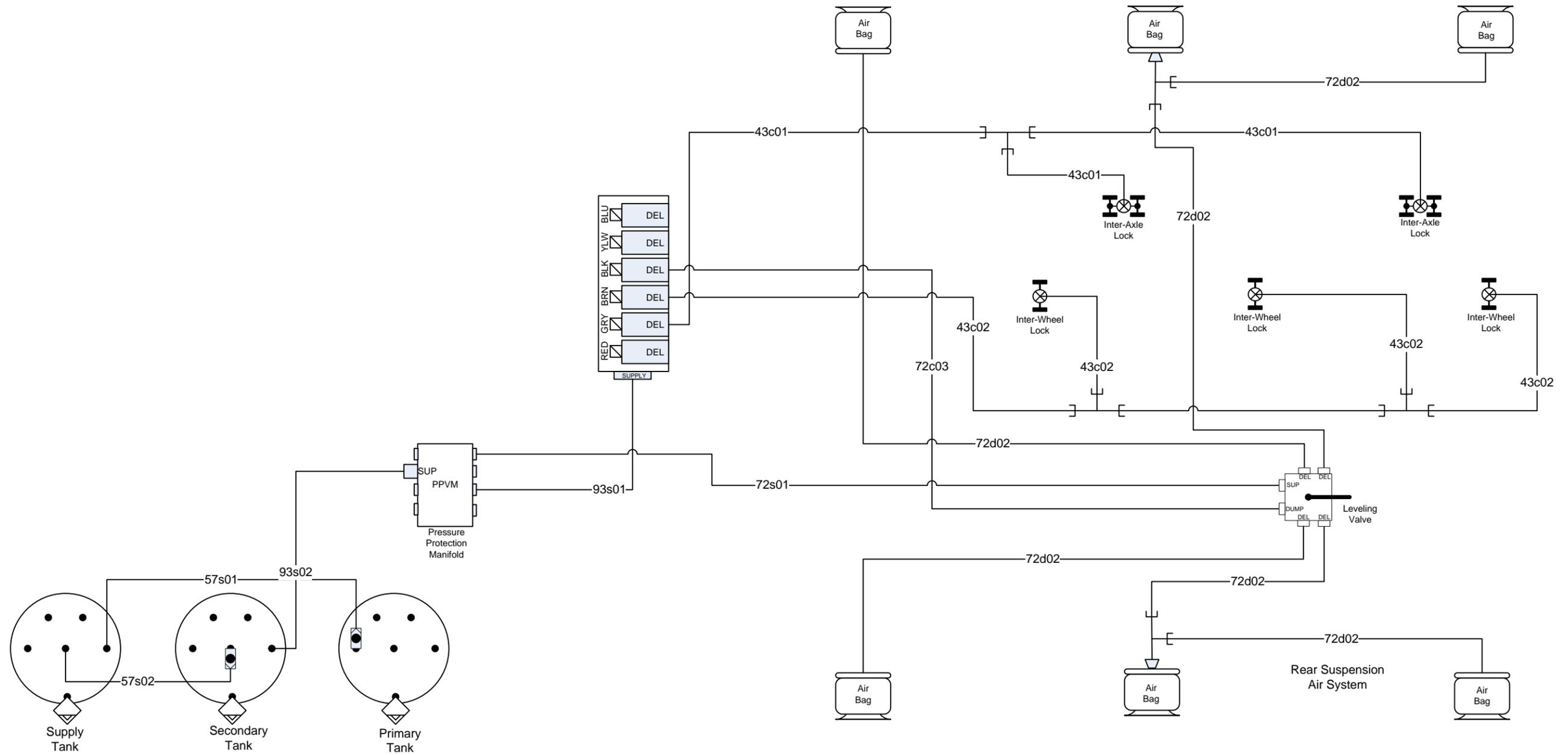
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## 12 Auxiliary Systems on Pressure Protected Circuits



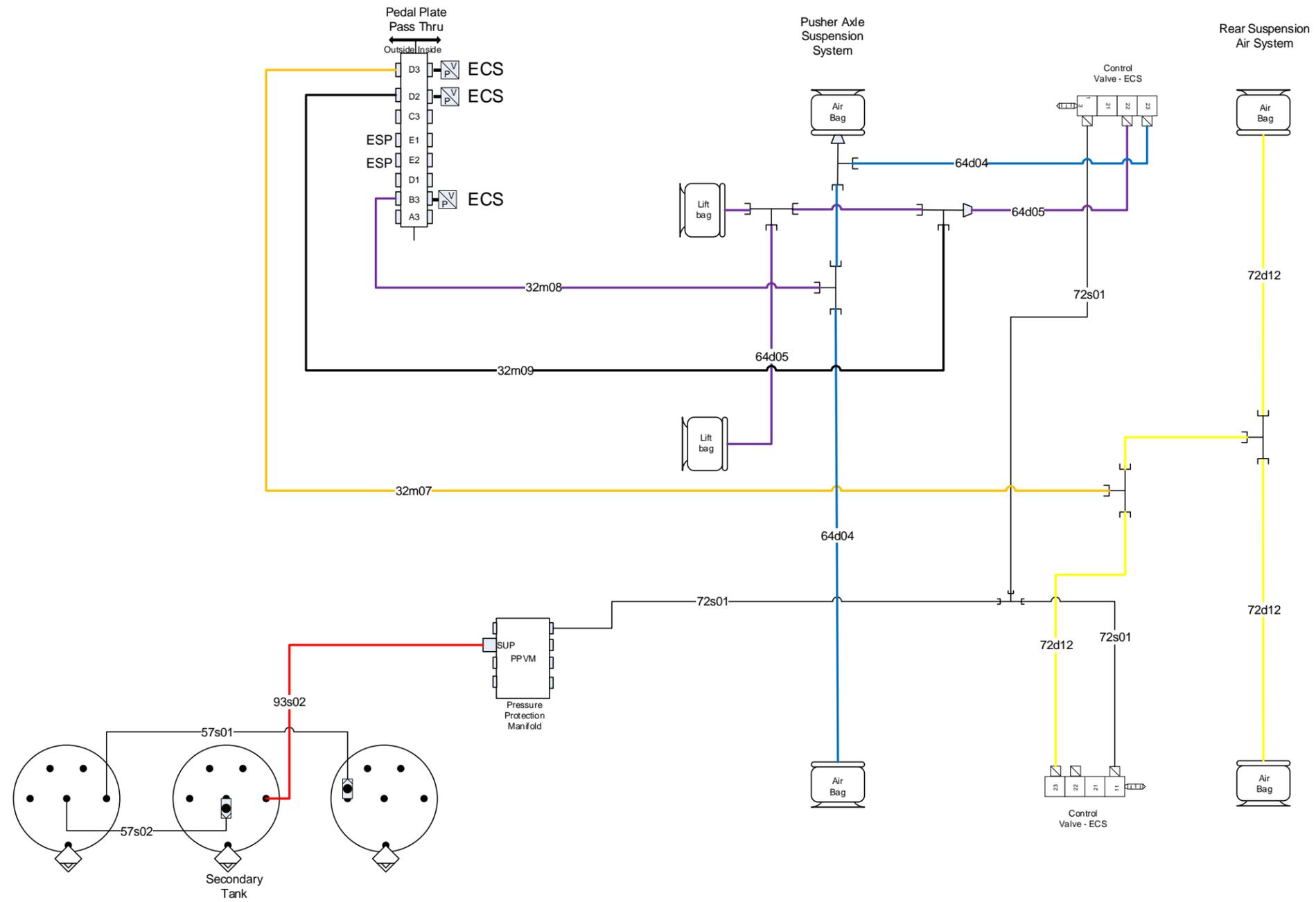
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### 13 Auxiliary Systems on Pressure Protected Circuits, Tri-Drive Suspension



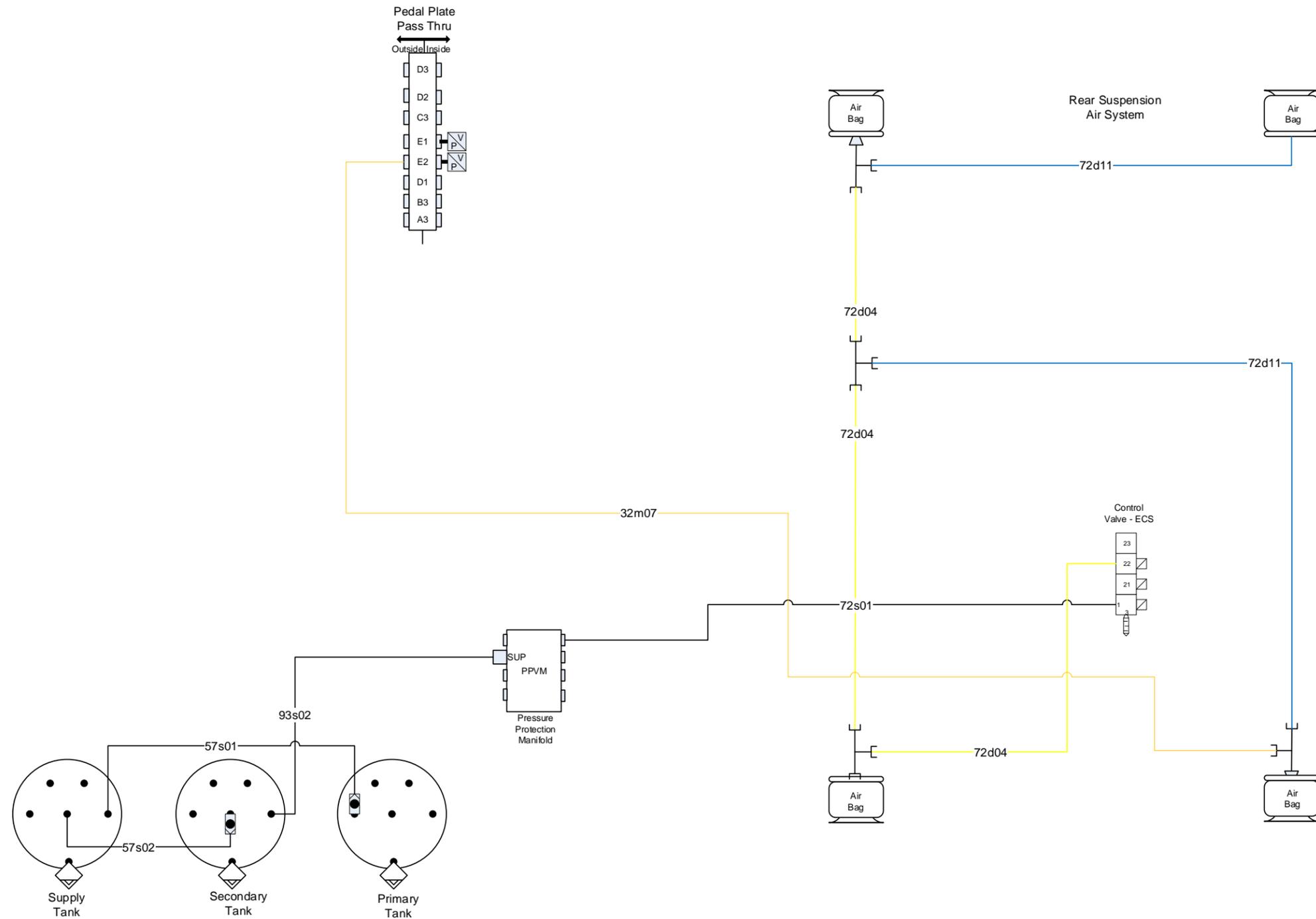
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# 14 Auxiliary Systems on Pressure Protected Circuits, 6x2 Suspension (Pusher)



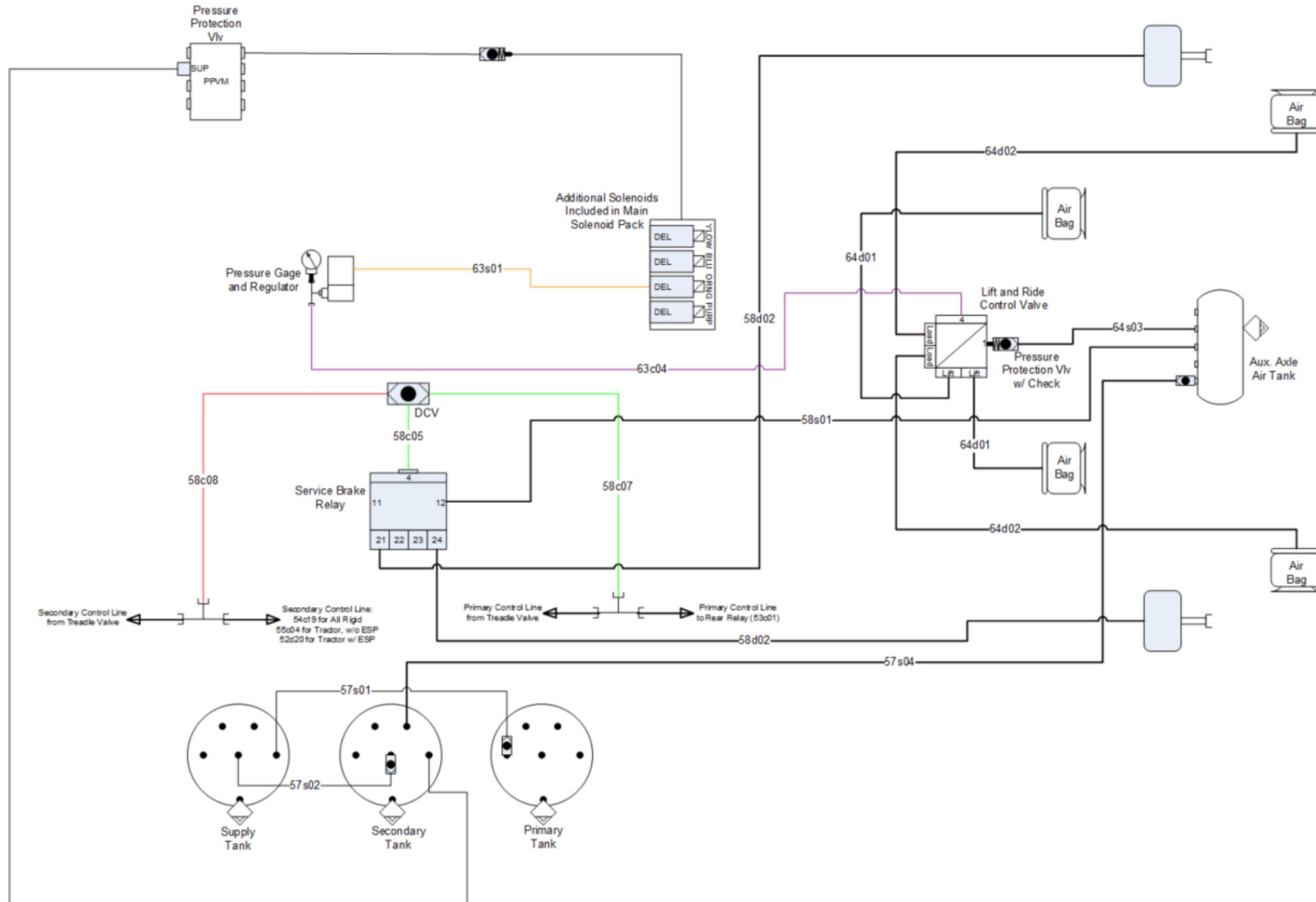
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# 15 Auxiliary Systems on Pressure Protected Circuits, 6x4 Suspension (Single Channel)



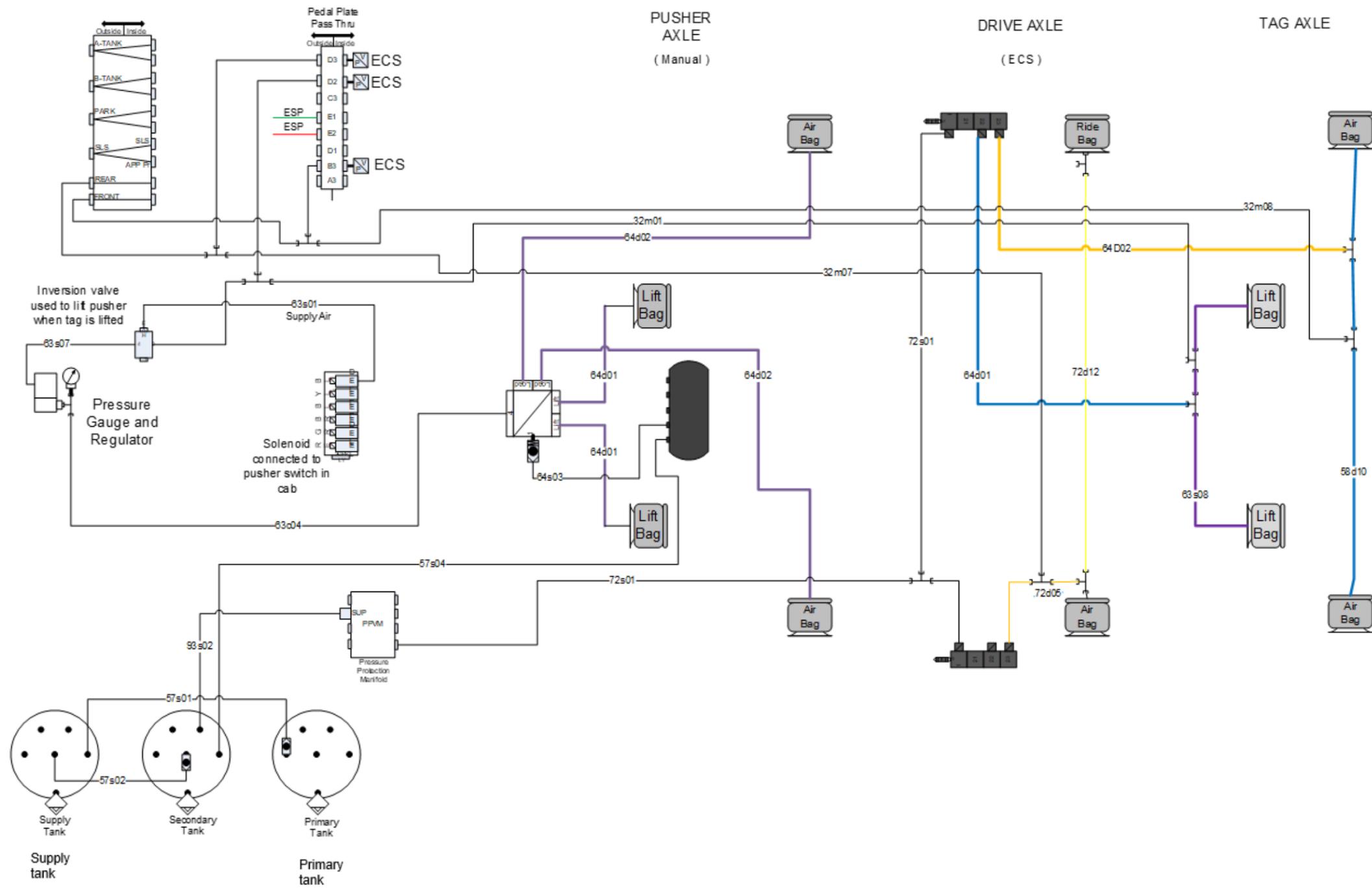
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# 16 Lift Axle (Rigid)



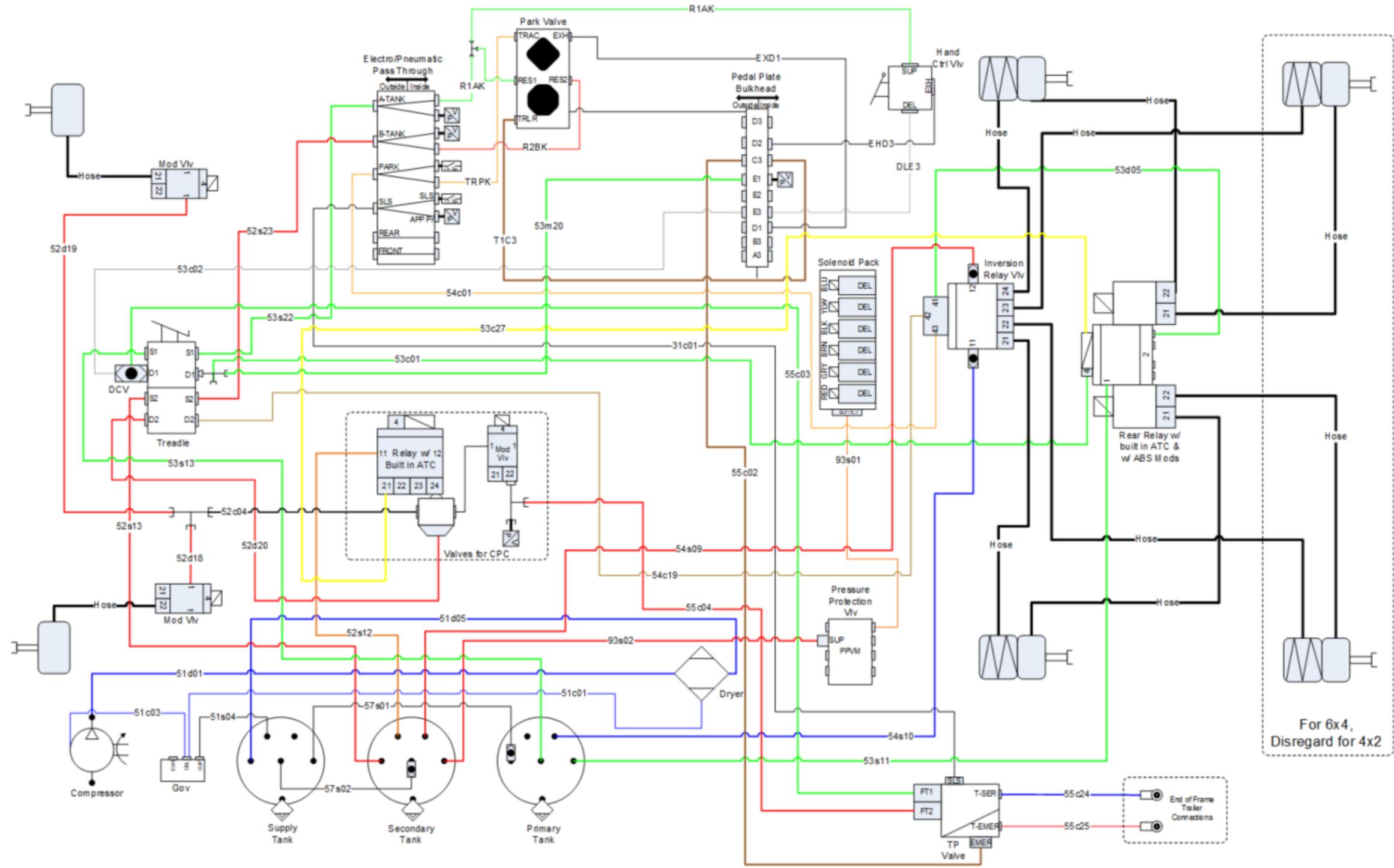
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# 17 Auxiliary Systems on Pressure Protected Circuits, 8\*2 Susp. (Pusher&Tag)



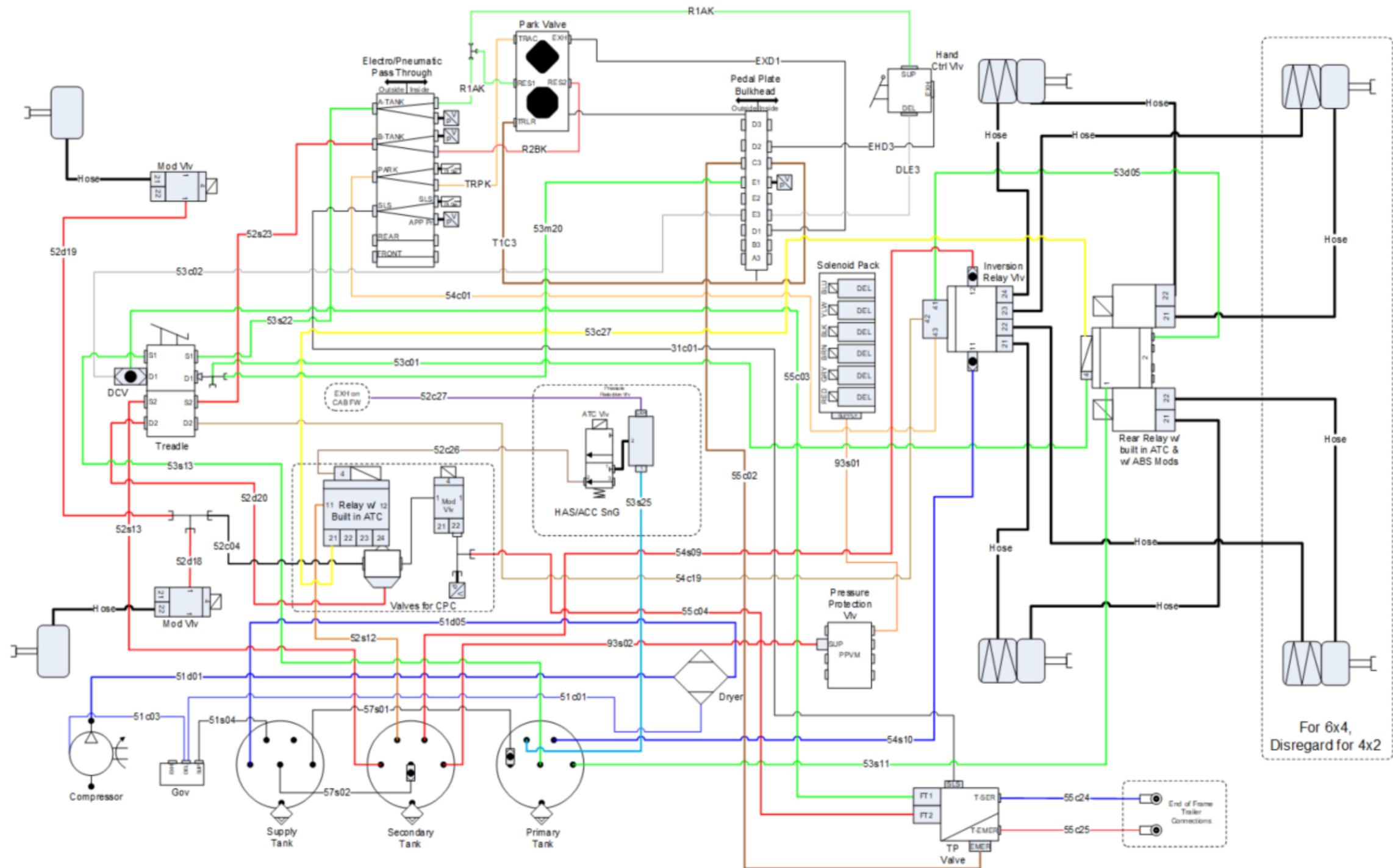
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18 Rigid with CPC (ESP) / Traction Control only, EOF Air



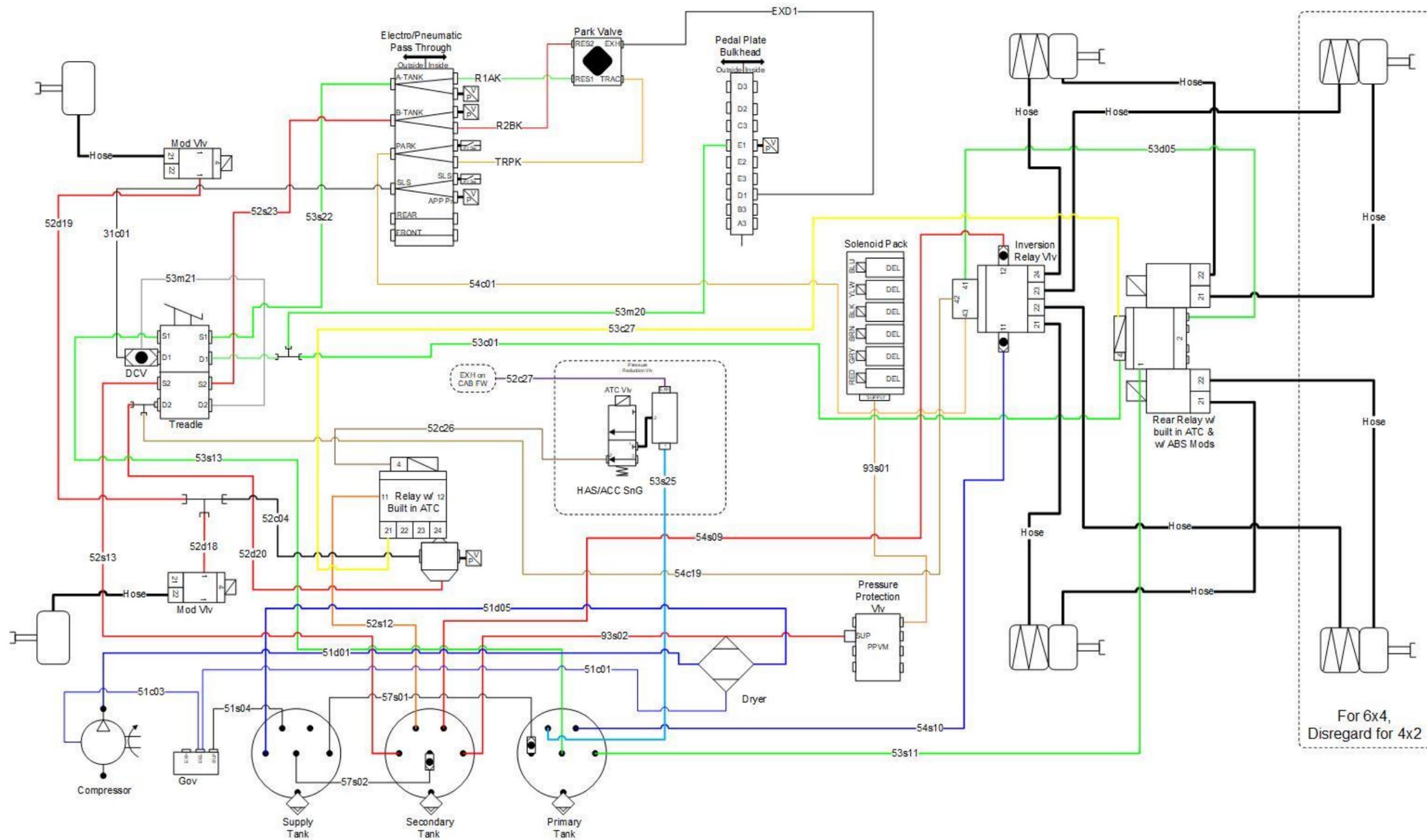
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19 Rigid with CPC (ESP) / Traction Control only, EOF Air, and with Hillstart



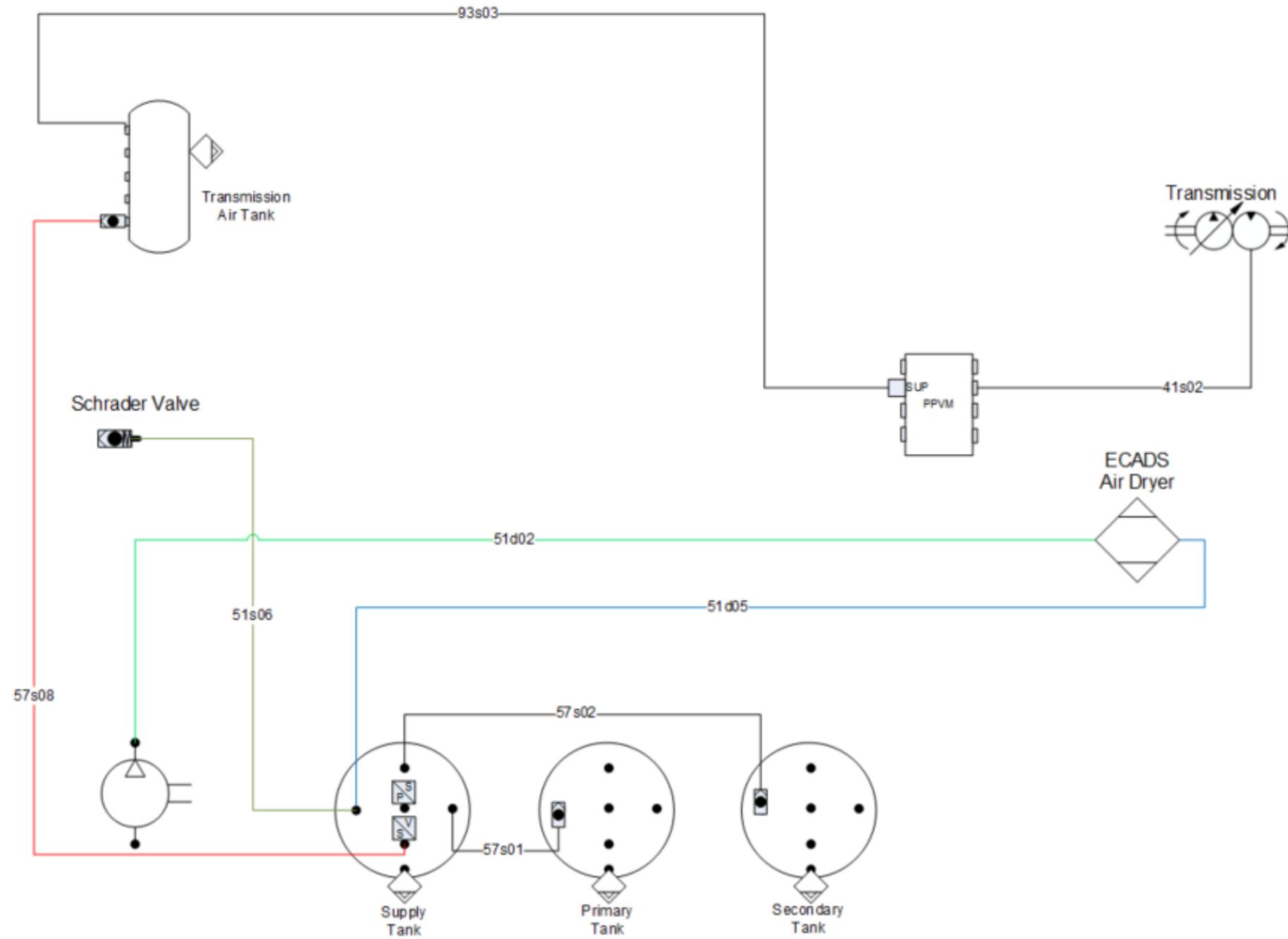
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20 Rigid with CPC (ESP) / Traction Control only and with Hillstart



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21 Electric truck Air management

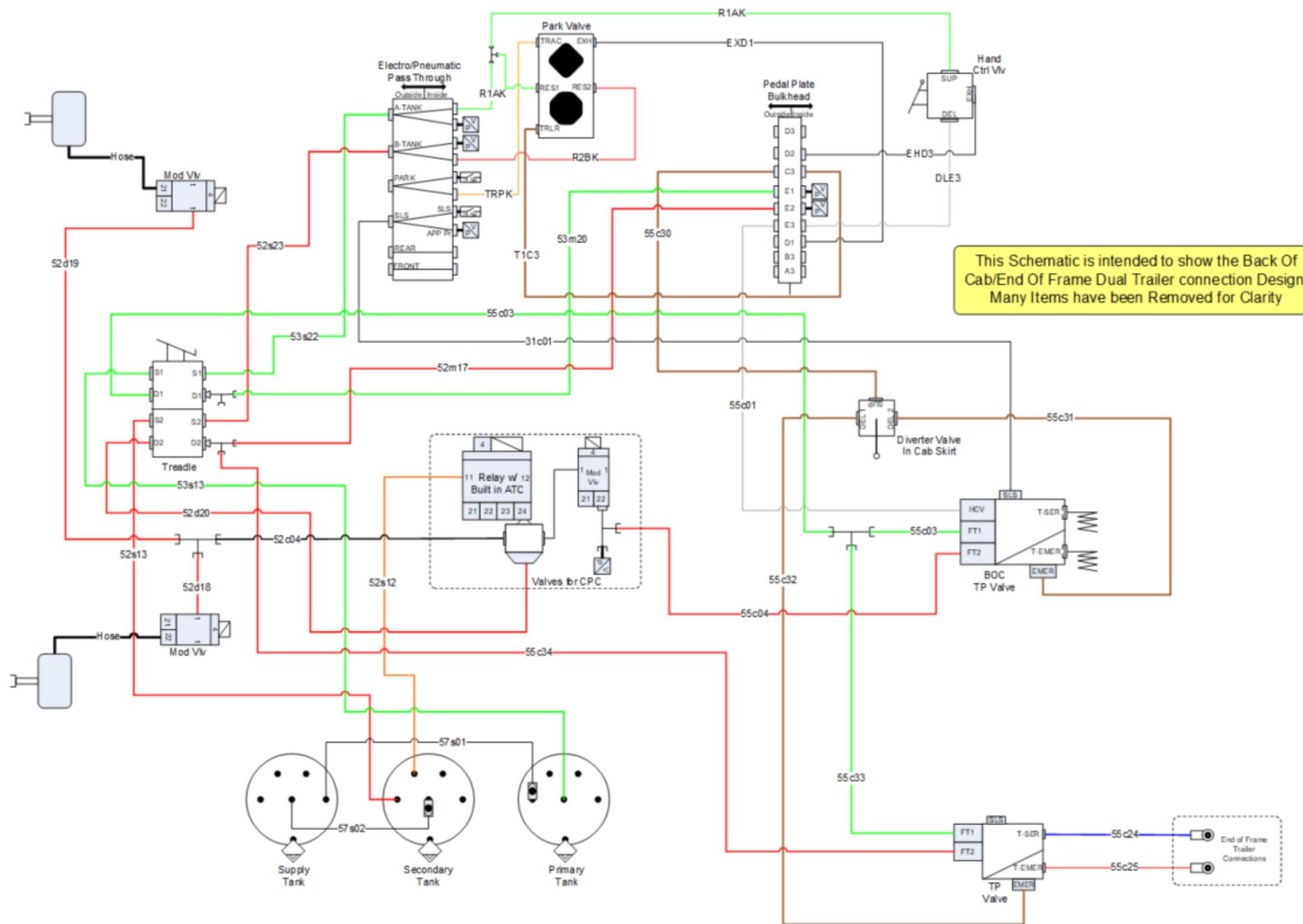


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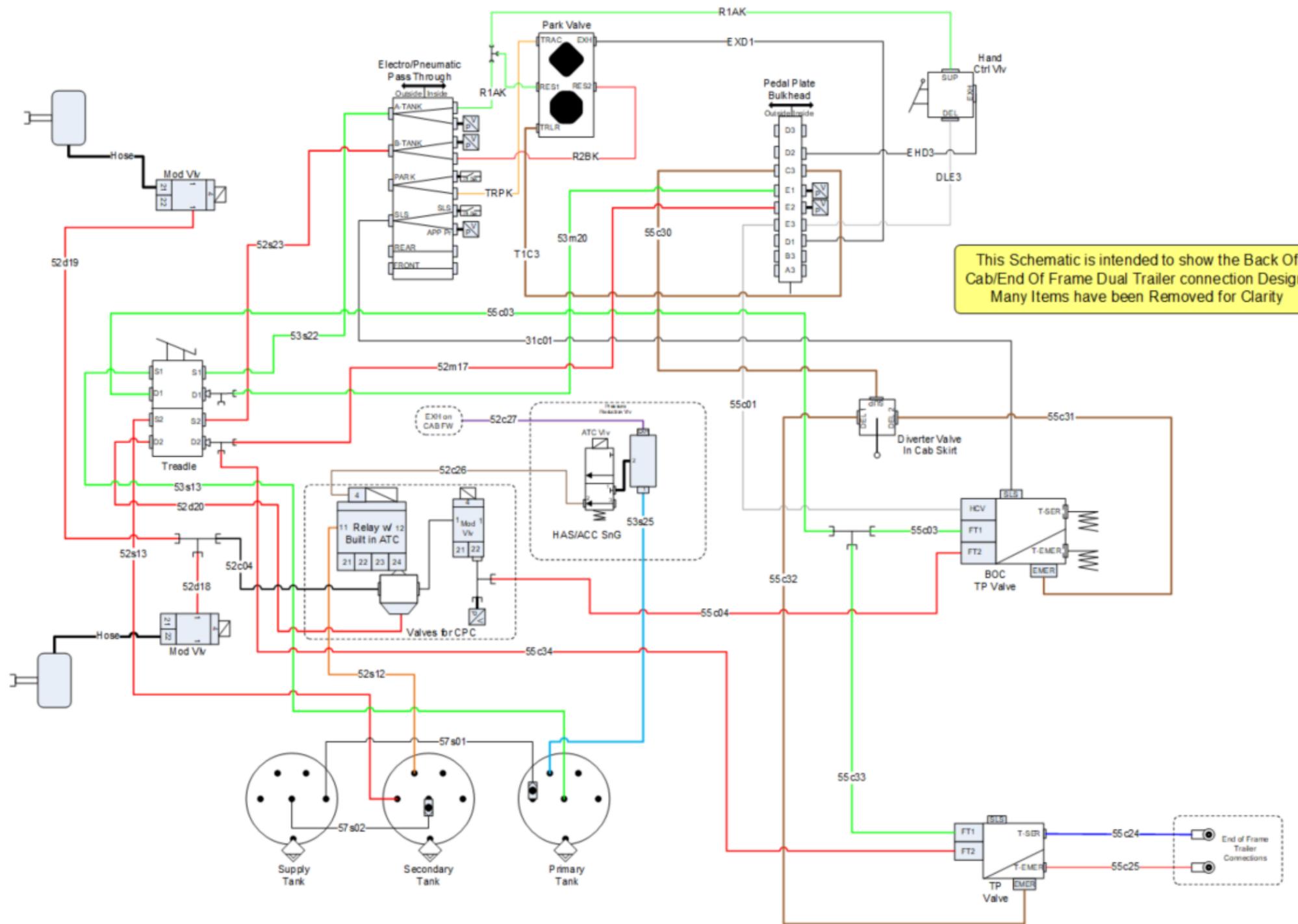
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22 Trailer Brake Systems, Back of Cab/End of Frame Trailer Connections, With ESP



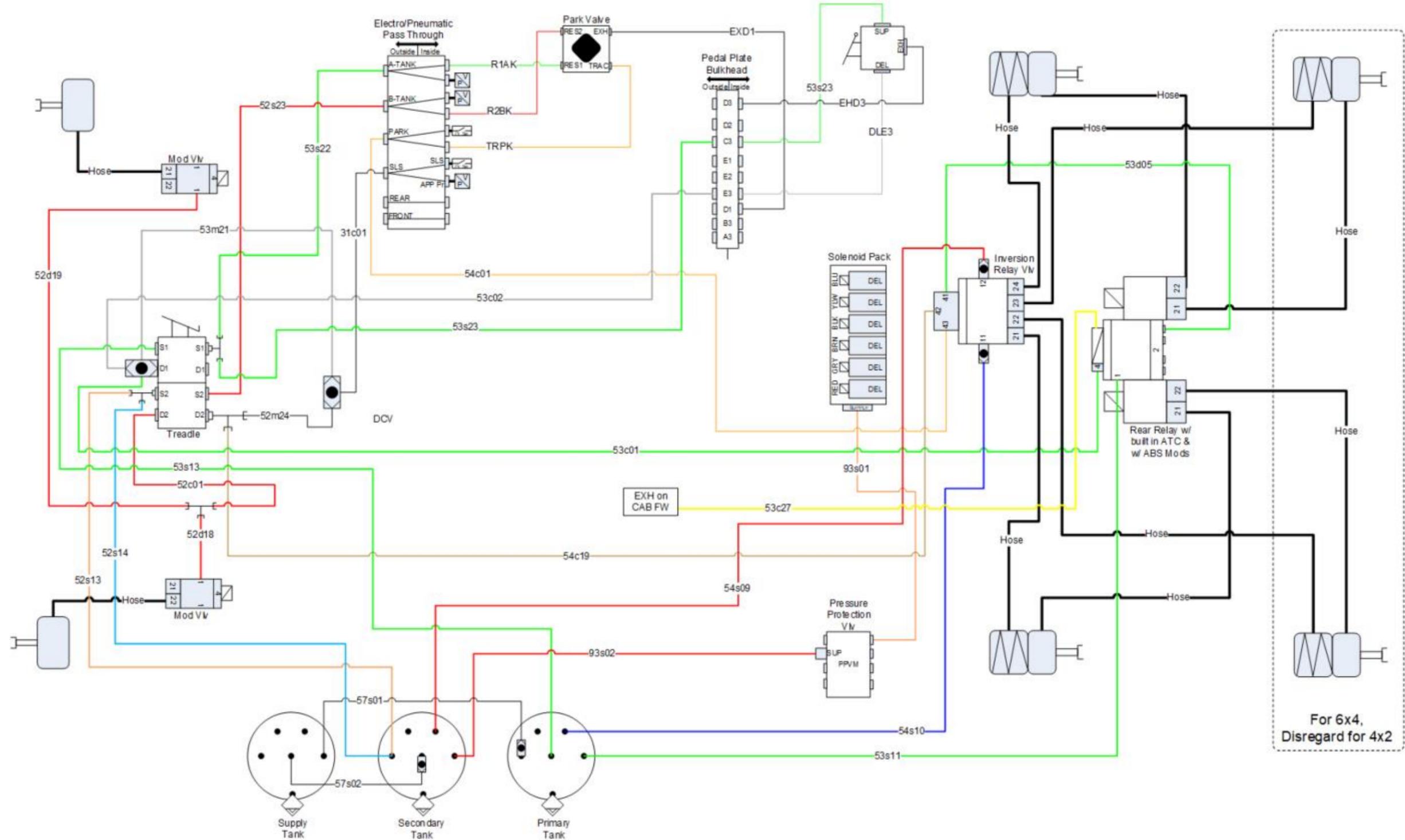
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23 Trailer Brake Systems, Back of Cab/End of Frame Trailer Connections, With ESP & Hillstart



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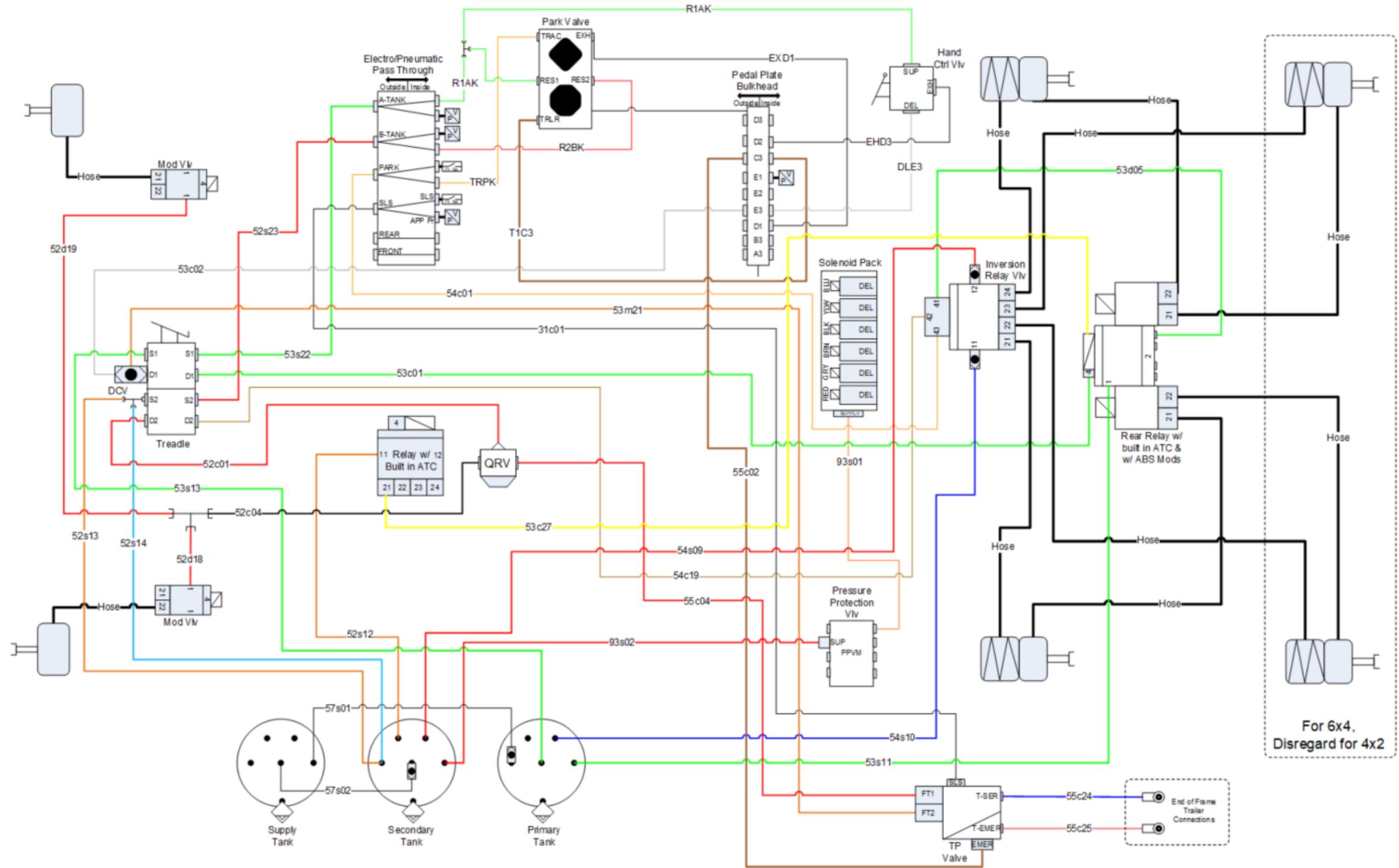
24 Construction Rigid with basic ABS and Service Brake Hand Control



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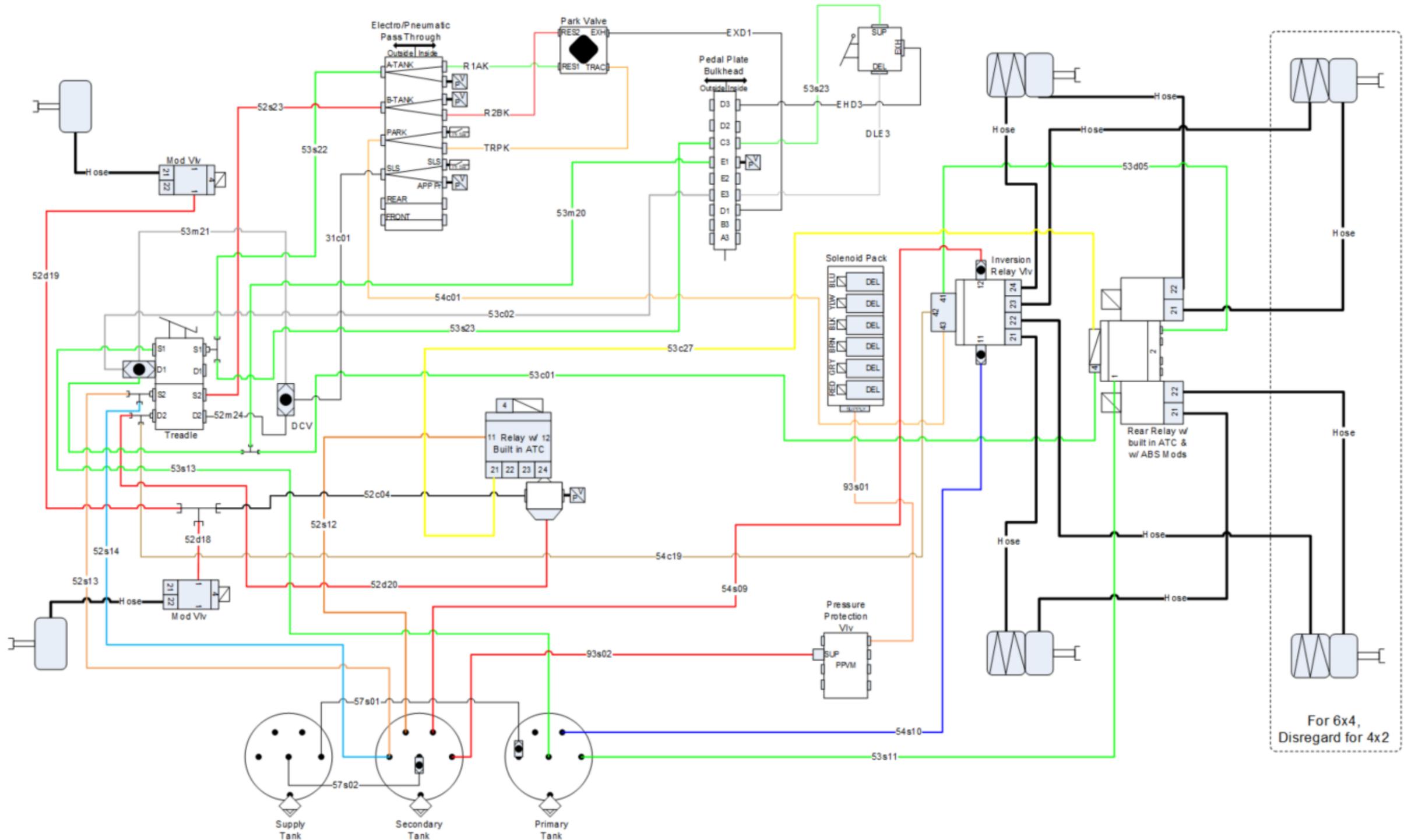


26 Construction Rigid with traction control & EOF air



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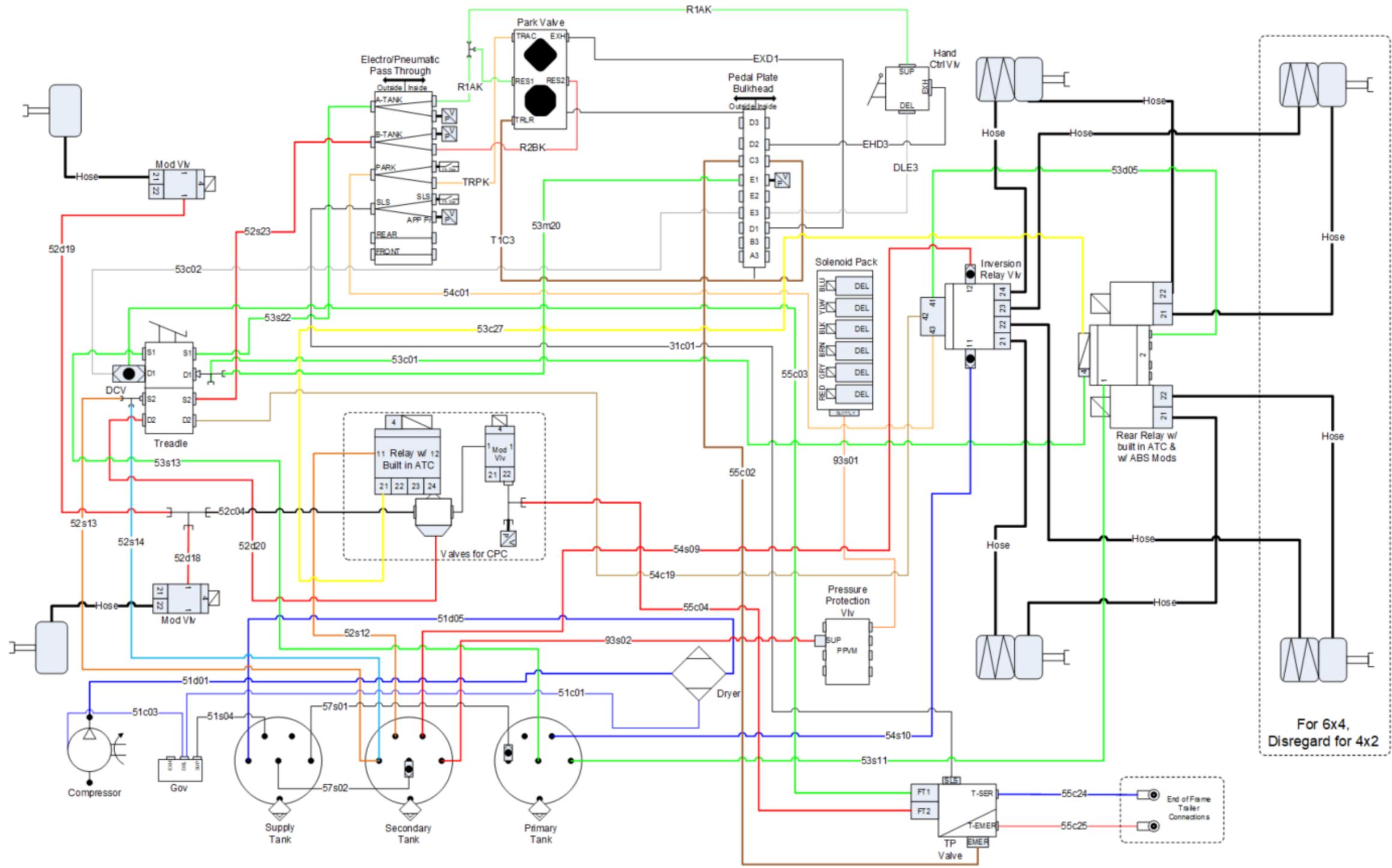
27 Construction Rigid with ESP and Service Brake Hand Control



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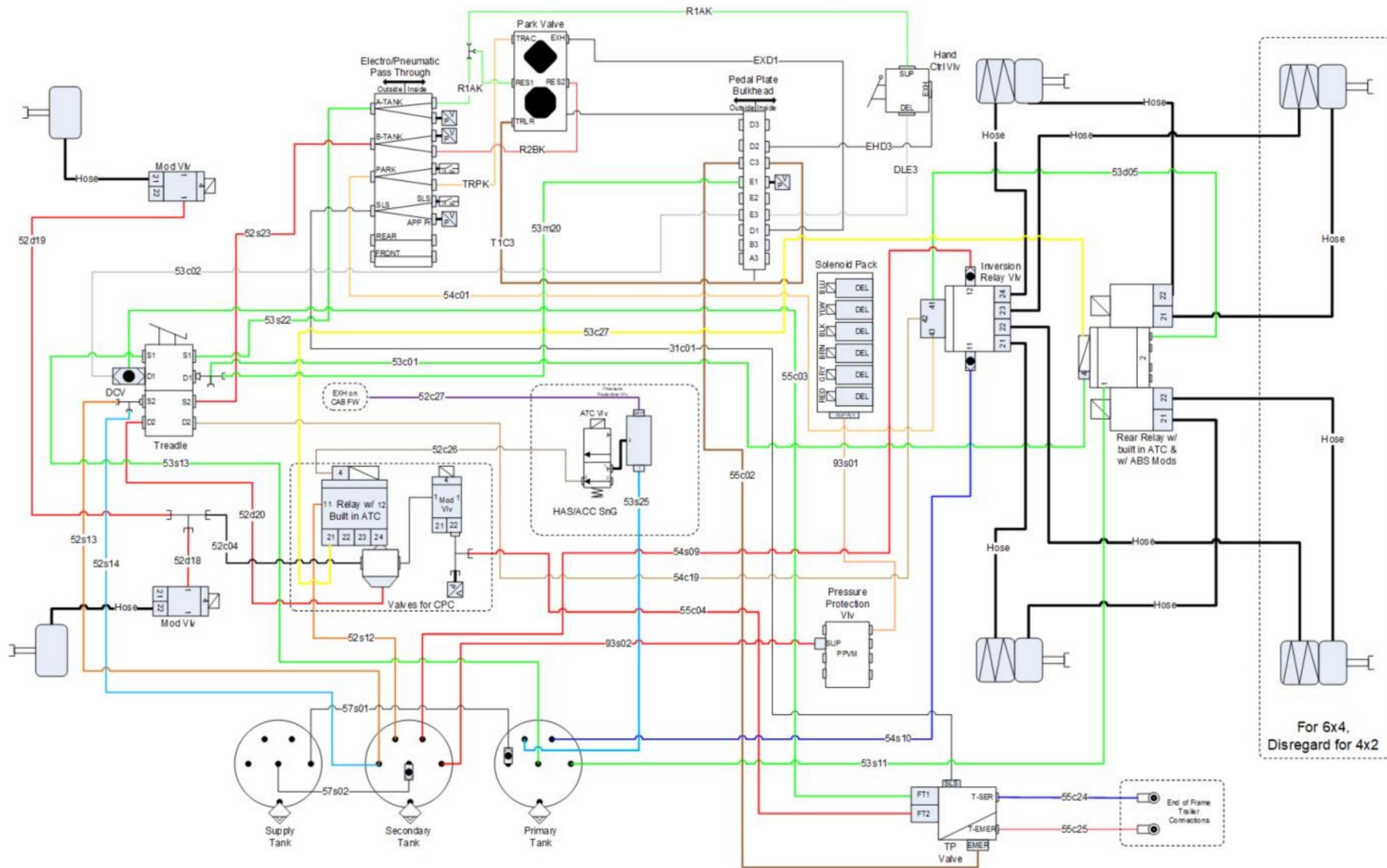


29 Construction Rigid with CPC (ESP) / Traction Control only, EOF Air



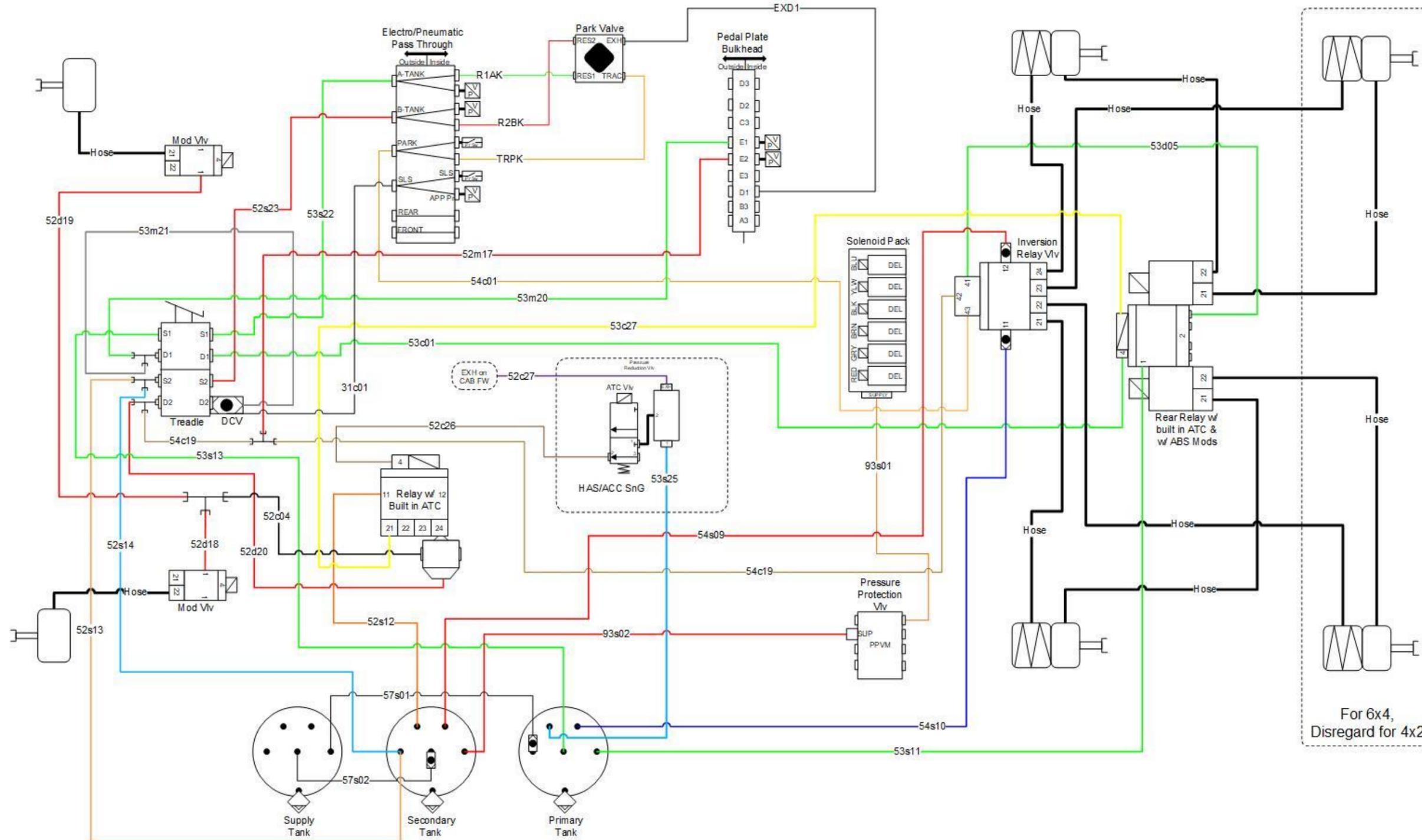
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30 Construction Rigid with CPC (ESP) / Traction Control only, EOF Air, and with Hillstart



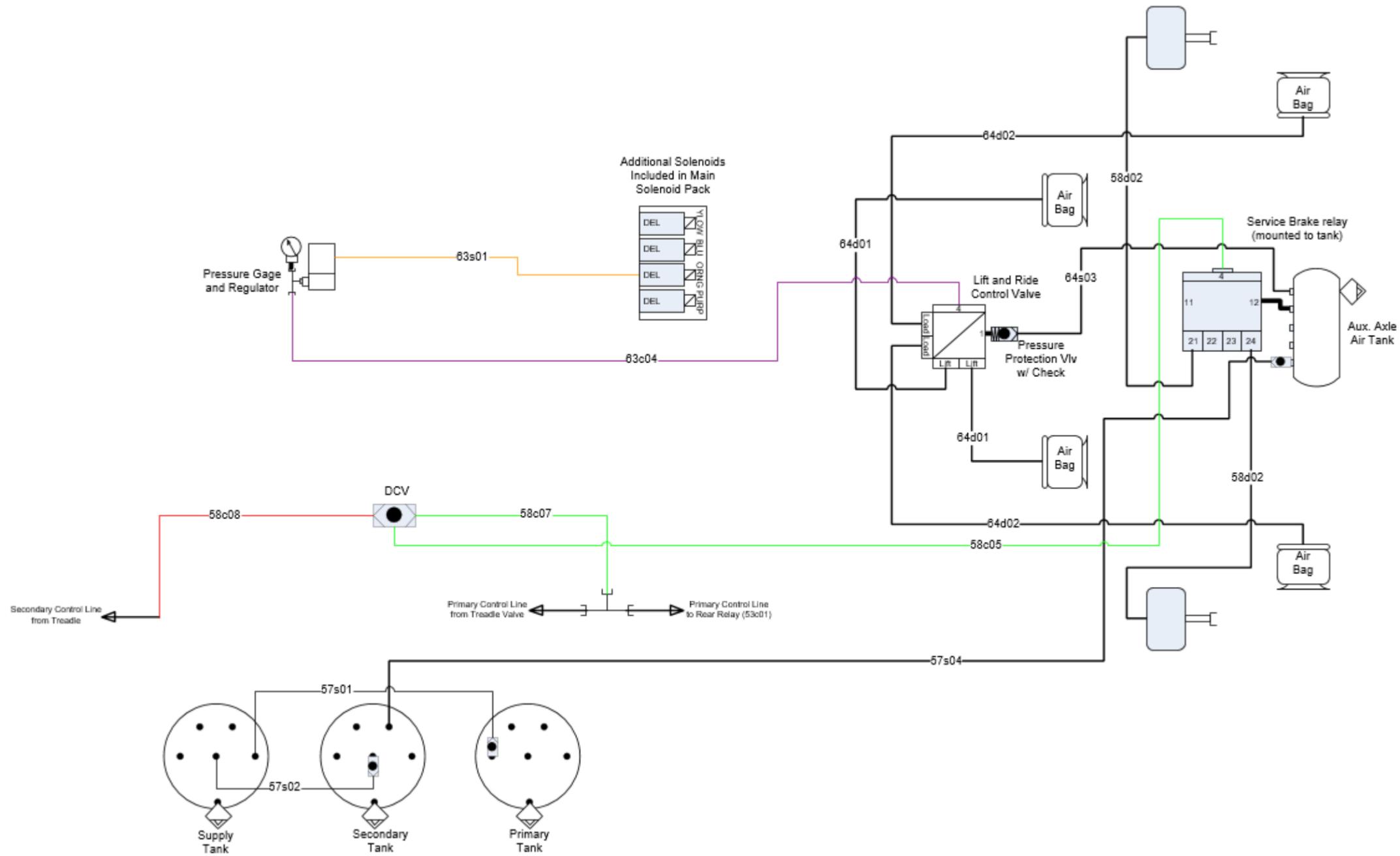
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31 Construction Rigid with CPC (ESP) / Traction Control only and with Hillstart



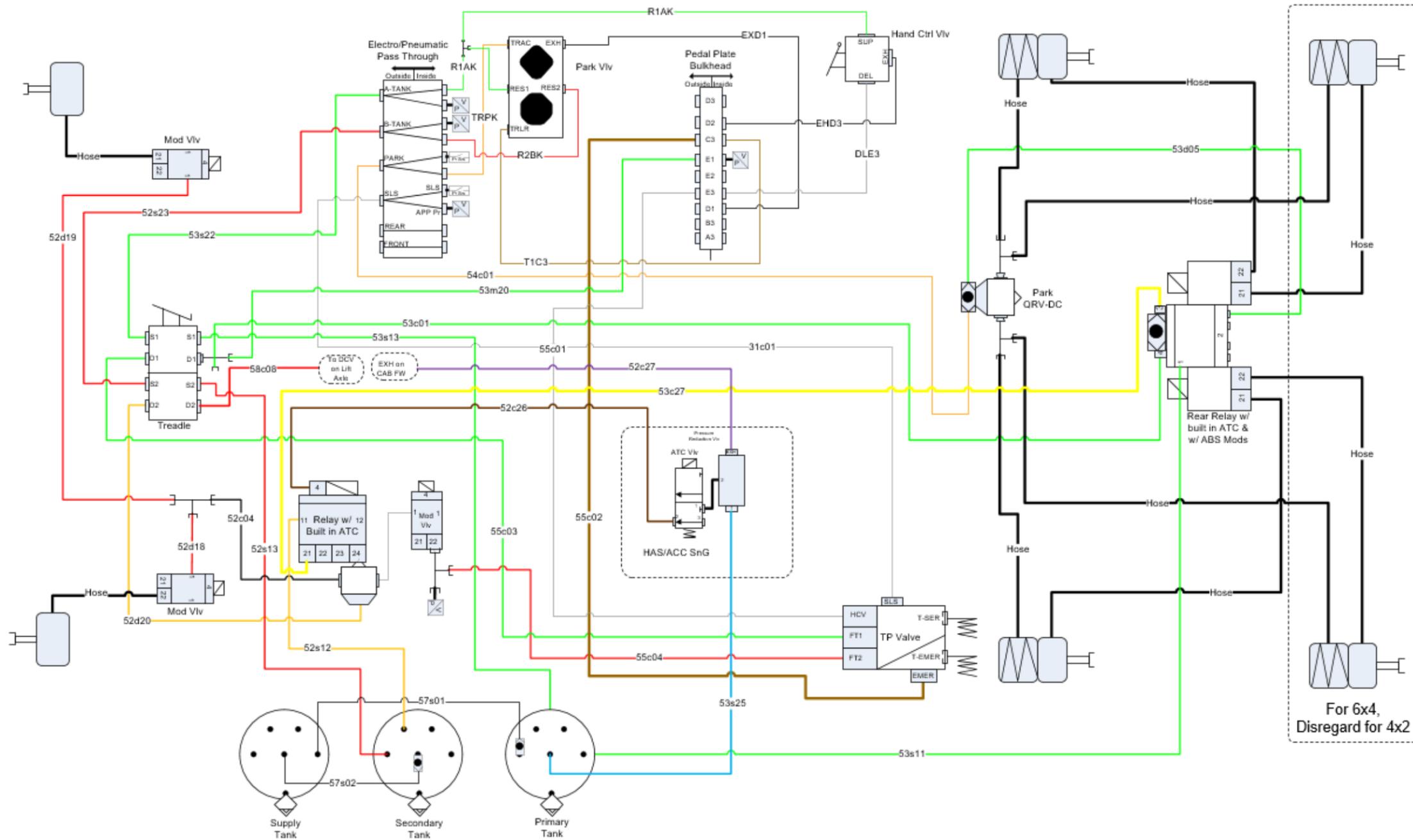
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### 32 Lift Axle (Tractor)



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### 33 Highway 8x4 Tractor CPC with Hillstart and ESP



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### 34 Air Line Numbers

2. Engine with mounting and equipment		Color	Line Size (inches)
21 Exhaust Brake			
21s01	Air Supply to Engine Exhaust Brake	Black	1/4
22 Fan Clutch			
22c01	Fan Clutch Control, Solenoid to Clutch	Green	1/4
22s01	Fan Clutch Solenoid Supply	Green	1/4
23 Air Cleaner			
23c01	Air Cleaner Intake Control	Purple	1/4
25 Emissions Control			
25s01	Diesel Particulate Filter Atomizer Block Supply	Red	1/2
25s02	DRV Valve Supply	Black	1/4
25s03	AHI Regulator Valve Supply	Tan	1/4
25d04	AHI Regulator Valve Delivery to Intector Air Pipe	White	1/4

3. Electrical Lighting and Instruments		Color	Line Size (inches)
31 Switches			
31c01	Stop Light Switch Control	Black	1/4
31m02	Primary/Secondary Jumper	Grey	3/8
31m03	Hand Control Jumper	Grey	3/8
32 Gauges			
32m01	Rear bellows gauge pressure	Purple	1/4
32m02	Front bellows gauge pressure	Brown	1/4
32m03	Primary Tank Pressure	Green	1/4
32m04	Secondary Tank Pressure	Red	1/4
32m05	Primary brake pressure	Green	1/4
32m06	Secondary brake pressure	Red	1/4
32m07	Rear Rear bellows pressure	Orange	1/4
32m08	ESP Rear suspension pressure	Purple	1/4

4. Power Transmission		Color	Line Size (inches)
41 Clutch			
41s01	Clutch air assissupply	Yellow	3/8
41s02	PPV to Transmission	Black	1/4
41c02	Neutral Switch	Red	1/4
42 Gearbox			
42s01	Gearbox air shift	Black	3/8
42s07	Transmission Supply	Black	5/8, 1/2
43 Rear Axles			
43c01	Inter Axle Lock (Diff Axles)	Grey	1/4
43c02	Inter Wheel Lock (Diff Axles)	Brown	1/4
44 Power Take Off (PTO)			
44d01	PTO Solenoid delivery		1/4
44s02	PTO Solenoid supply	Orange	1/4

5. Brake		Color	Line Size (inches)
51 Compressor, regulator, anti-freeze unit			
51d01	Delivery from the compressor		Hose
51m02	Air Dryer to Purge Tank	Blue	3/8
51c03	Compressor Unload from Governor	Blue	1/4
51s04	Governor Supply from Wet Tank	Yellow	3/8
51d05	Air Dryer to Wet Tank	Blue	5/8
51c01	Air Dryer Purge Control from Governor	Blue	1/4

52 Front Circuit			
52c01	Foot Brake Valve to QRV/Tee (BSYS-CON)	Red	1/2
52c03	Redundant Rear Control	Brown	3/8
52c04	CPC Relay to ABS Modulator	Black	5/8
52d04	QRV/Relay to ABS modulator	Red	1/2
52d05	ABS modulator to brake chamber	Rubber Hose	1/2
52s12	CPC relay supply	Orange	5/8
52s13	Front circuit foot brake valve supply	Red/Orange	5/8
52s14	Additional front circuit foot brake valve supply	Blue	1/2
52m17	Foot brake valve to front circuit pressure sensor	Red	3/8
52d18	Tee to ABS mod LHS	Red	1/2
52d19	Tee to ABS mod RHS	Red	1/2
52d20	Foot Valve to CPC DCV supply port	Orange	5/8
52s23	Foot brake valve to pass through supply to park valve	Red	3/8
52m24	Foot brake valve to SLS DCV, Rigid only	Grey	3/8
52c25	Hill start assist Inversion valve Secondary control from Treadle	Red	1/4
52c26	Hillstart/Grade Gripper to ATR-6 control port	Yellow	1/4
52c27	Hillstart/Grade Gripper Exhaust to Engine compartment	Purple	3/8

53 Rear Circuit			
53c01	Rear service relay control from Treadle valve	Green	1/2
53c02	SBHC control From Cab to Treadle DCV	Grey	3/8
53d05	Anti-compounding or inversion relay from rear relay	Green	3/8
53d10	ABS Modulators to Brake Changes	Black/Green/Red	5/8
53s11	Service Relay Supply from Air Tank	Green	3/4
53s13	Treadle Valve Supply for Rear Circuit from Air Tank	Green	5/8
53m18	SBHC Jumper	Grey	3/8
53m19	SBHC Jumper 2	Grey	3/8
53m21	Treadle Valve to SLS DCV, Rigid Only	Grey	3/8
53s22	Treadle Valve to Pass Through Supply to Park Valve	Green	3/8
53s23	Treadle Valve Primary Supply to Hand Control Valve Supply	Green	3/8
53s25	Hill Start Assist Supply	Blue	3/4
53c26	Hill Start Assist Control	Orange	1/4
53c27	From R14 Balance port to delivery CPC ATR-6 or cab exhaust	Yellow	3/8
53s28	Additional secondary supply to treadle for 8x6 rigid	Orange	1/2
53s29	Primary Treadle Vavle Delivery to Control Sensor	Green	1/2

54 Parking Brake			
54c01	Tractor Spring Brake Control	Orange	3/8
54s09	Inversion Relay Secondary Supply	Red	1/2
54s10	Inversion Relay Primary Supply	Red	1/2
54c19	Secondary control from treadle to inversion relay	Red	3/8
54d21	Park Valve to Joint Fitting, LHS	Black	1/2
54d22	Park Valve to Joint Fitting, RHS	Black	1/2

55 Trailer Brake			
55c01	Hand Control from Cab	Grey	3/8
55c02	Spring Brake Control from Cab	Brown	3/8
55c03	Primary Control from Treadle	Green	1/2
55c04	Secondary Control from CPC or Treadle	Red	3/8
55c24	Service Brake Trailer Connection	Blue	1/2
55s25	Park Control Trailer Connection	Red	1/2
55c30	Spring Brake Control, Cab to Diverter valve, TBSP-CFM	Brown	3/8
55c31	Spring Brake Control, Diverter to Cab TPV, TBSP-CFM	Brown	3/8
55c32	Spring Brake Control, Diverter to EOF TPV, TBSP-CFM	Brown	3/8
55c33	Treadle Valve to EOF TPV, Primary	Green	1/2
55c34	Treadly Valve to EOF TPV, Secondary	Red	3/8

57 Air Tanks			
57s01	Primary Tank Supply	Black	1/2
57s02	Secondary Tank Supply	Black	1/2
57s03	8x6 Air Tank Supply	Green	5/8
57s04	Auxiliary Axle Tank Supply	Red	1/2
57s05	Auxiliary Axle Tank Jumper	Green	5/8
57s06	Tag Axle supply	Black	1/2, 5/8
57m07	Wet tank Jumper	Black	1/2
57s08	Transmission Air Tank Supply	Red	1/2
57s09	Extra Air Tank Supply	Black	1/2

58 Auxiliary Axle			
58s01	Relay Supply	Red	3/8, 1/2, 5/8
58d02	1st axle Relay to Bulkhead or Chambers	Red, Rubber	1/2, Hose
58d03	2nd axle Relay to Bulkhead	Red	1/2
58d04	3rd axle Relay to Bulkhead	Red	1/2
58c05	Primary/Secondary Control Checked	Green	1/4
58c06	Tag Axle Control	Green	3/8
58c07	Primary Control	Green	1/4
58c08	Secondary Control	Red	1/4
58d09	Quick Release to BulkHeads	Red	1/2

59			
59s02	Air Manifold to Cab	Black	1/4

6 Wheel, Suspension, Steering		Color	Line Size (inches)
61 Auxiliary Axle Lift/Ride Control			
63s01	1st axle regulator supply from Solenoid Pack	Orange	1/4
63s02	2nd axle regulator supply from Solenoid Pack	Blue	1/4
63s03	3rd axle regulator supply from Solenoid Pack	Yellow	1/4
63c04	1st axle lift bag control to Control Valve	Purple	1/4
63c05	2nd axle lift bag control to Control Valve	Green	1/4
63c06	3rd axle lift bag control to Control Valve	Brown	1/4
62 Auxiliary Axle Mounted Controls			
64d01	Lift Bag Supply from Control Valve	Blue	1/2
64d02	Ride Bag Supply from Control Valve	Orange	1/2
64s03	Control Valve System Supply from Aux. Air Tank	Black	1/2

7. Frame, Springs, damping, and wheels		Color	Line Size (inches)
72 Air Suspension rear axle(s)			
72s01	Leveling Valve Supply from PPV	Black	3/8
72d02	Air Bellow Pressure from Tee to Cab	Purple	3/8
72c03	Rear Suspension Dump from Solenoid Pack	Black	1/4
72d04	Front-rear Bellows Pressure 6x2 to Cab	Blue	3/8
72d05	Rear Rear Bellows Pressure 6x2 to Cabl	Yellow	5/8
72d11	Front-Rear Bellows to Rear-Rear Bellows	Blue	3/8
73 Air Suspension front axle(s)			
72s01	Leveling Valve Supply from PPV	Black	1/4
72d02	Air Bellow Pressure (Left) from Leveling Valve	Yellow	1/4
73d08	Air bellow Pressure (Left) from Tee to Cab	Yellow	1/4

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8. Cab		Color	Line Size (inches)
81 Cab Suspension			
81s02	PPV Manifold to Cab Leveling Valve, Rear	Green	1/4
81d05	Cab Leveling Valve (Rear) to Rear Bellows LHS	Black	1/4
81d06	Cab Leveling Valve (Rear) to Rear Bellows RHS	Black	1/4
82 Seat Suspension			
82s01	Seat Suspension Supply from PPV	Black	1/4
83 Seat Suspension			
83s01	Solenoid Valve Pack to Air Horn	Red	1/4
83d03	Auxiliary Manifold to Air Horn Lanyard	Black	1/4

9. Miscellaneous, special functions		Color	Line Size (inches)
91 Fifth Wheel			
91c01	5th Wheel Slide from Solenoid Pack	Yellow	1/4
91c02	Touch Release Park Signal from Rear park Control Tee	Orange	1/4
91d03	Touch Release Piston Control from 2nd Solenoid	Grey	3/8
91c04	Inversion Supply from 1st Solenoid	Blue	1/4
91m05	2nd Solenoid jumper from Inversion Valve	Blue	3/8
93 Miscellaneous			
93s01	Solenoid Valve Pack Supply from PPV	Orange	3/8
93s02	PPV Manifold Supply from Secondary Air Tank	Red	1/2
93s03	PPV Manifold Supply from Transmission Air Tank	Black	3/8

10. Miscellaneous Indside Cab		Color	Line Size (inches)
R2BK	Secondary Tank Supply, Cab Pass Through to Dash Valve	Red	3/8
R1AK	Primary Tank Supply, Cab Pass Through to Dash Valve	Green	3/8
R1AK	Supply to Hand Control Valve from Cab Pass Through	Green	3/8
DLE3	Delivery from Hand Control Valve to Cab Pass Through	Grey	3/8
EHD3	Exhaust from Hand Control Valve to Cab Pass Through	Yellow	1/4
T1C3	Dash Valve Delivery to Cab Pass Through, Trailer Spring Brake Control	Brown	3/8
TRPK	Dash Valve Delivery to Cab Pass Through, Tractor Spring Brake Control	Orange	3/8

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