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Document Title
SCHEMATICS
MACK BRAND CAB OVER

VOLVO

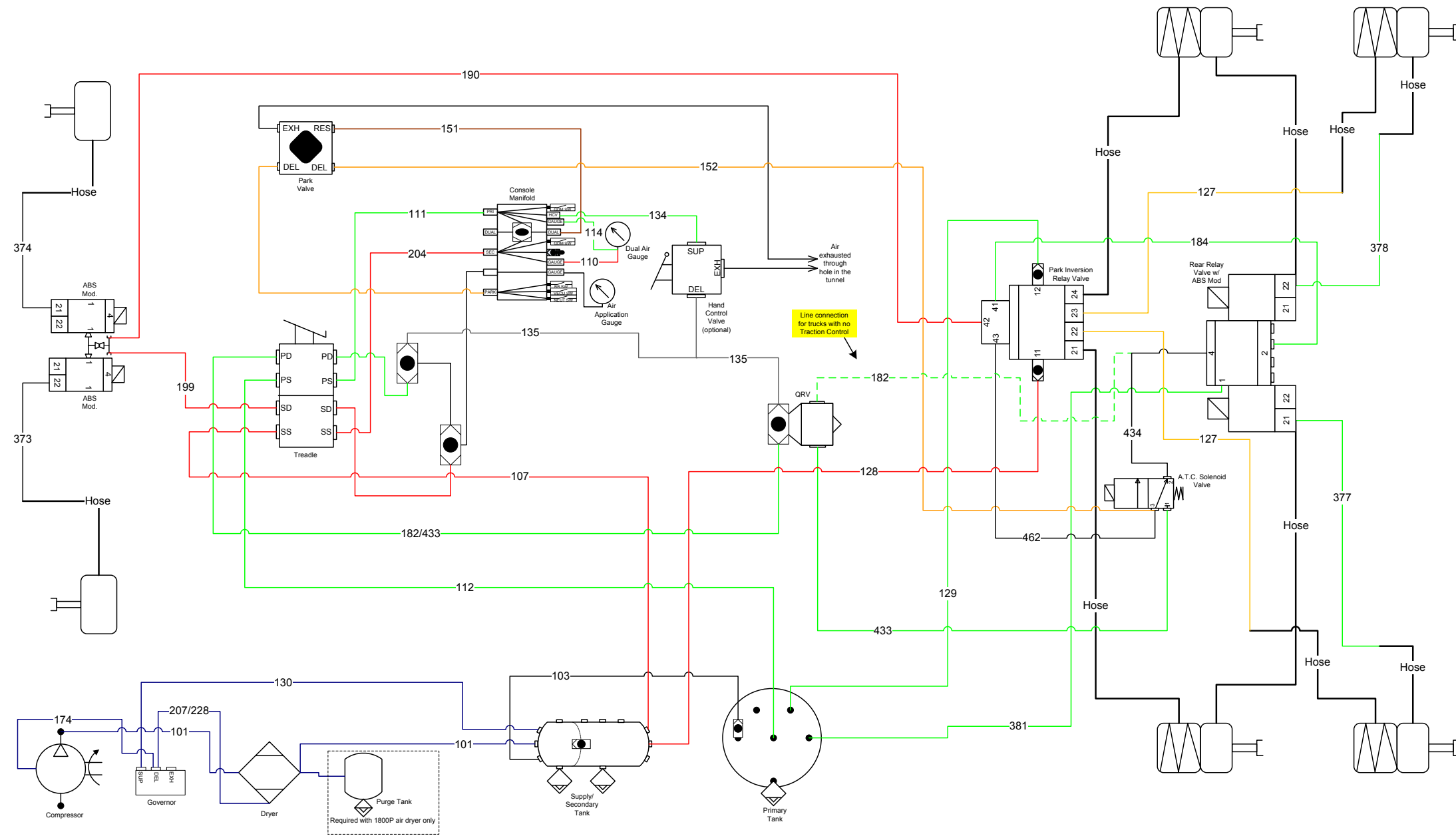
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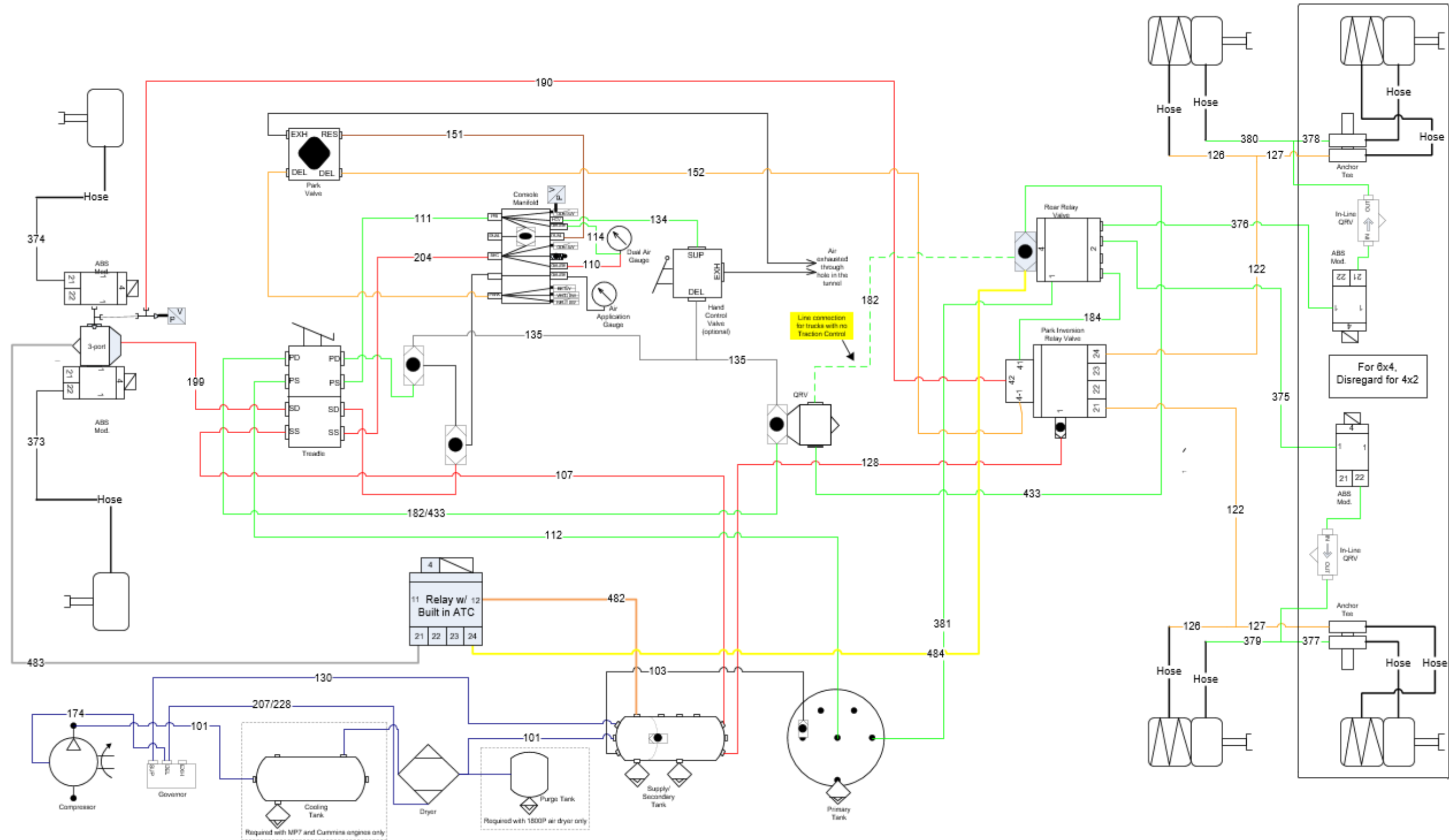
1. MRU



* Assume a Bendix front axle modulator arrangement for this page, and subsequent pages
 * Assume a Meritor Wabco ATC arrangement for this page, and subsequent pages.

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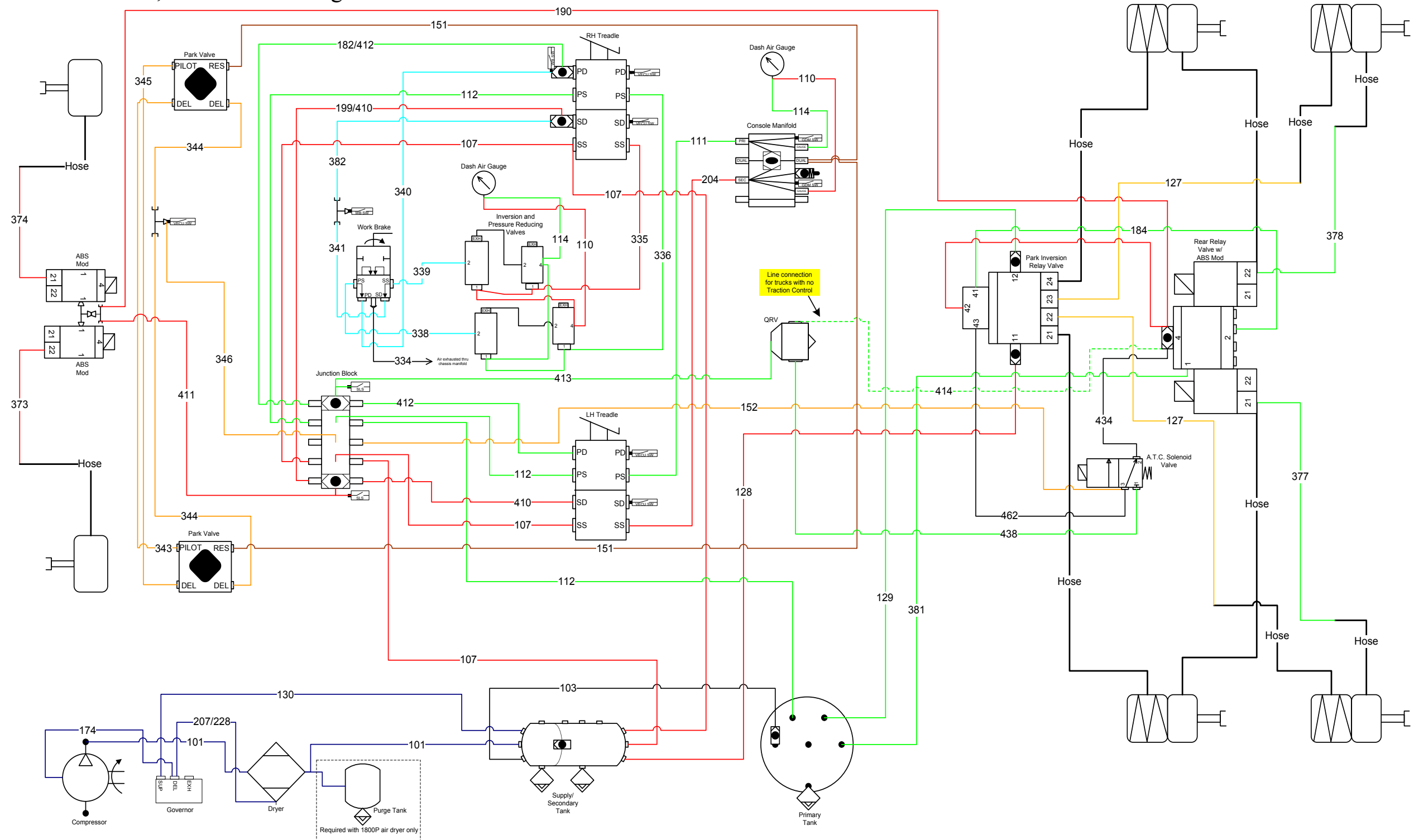
2. MR with ESP




* In-line QRV's used with Centrifuse brake drums only

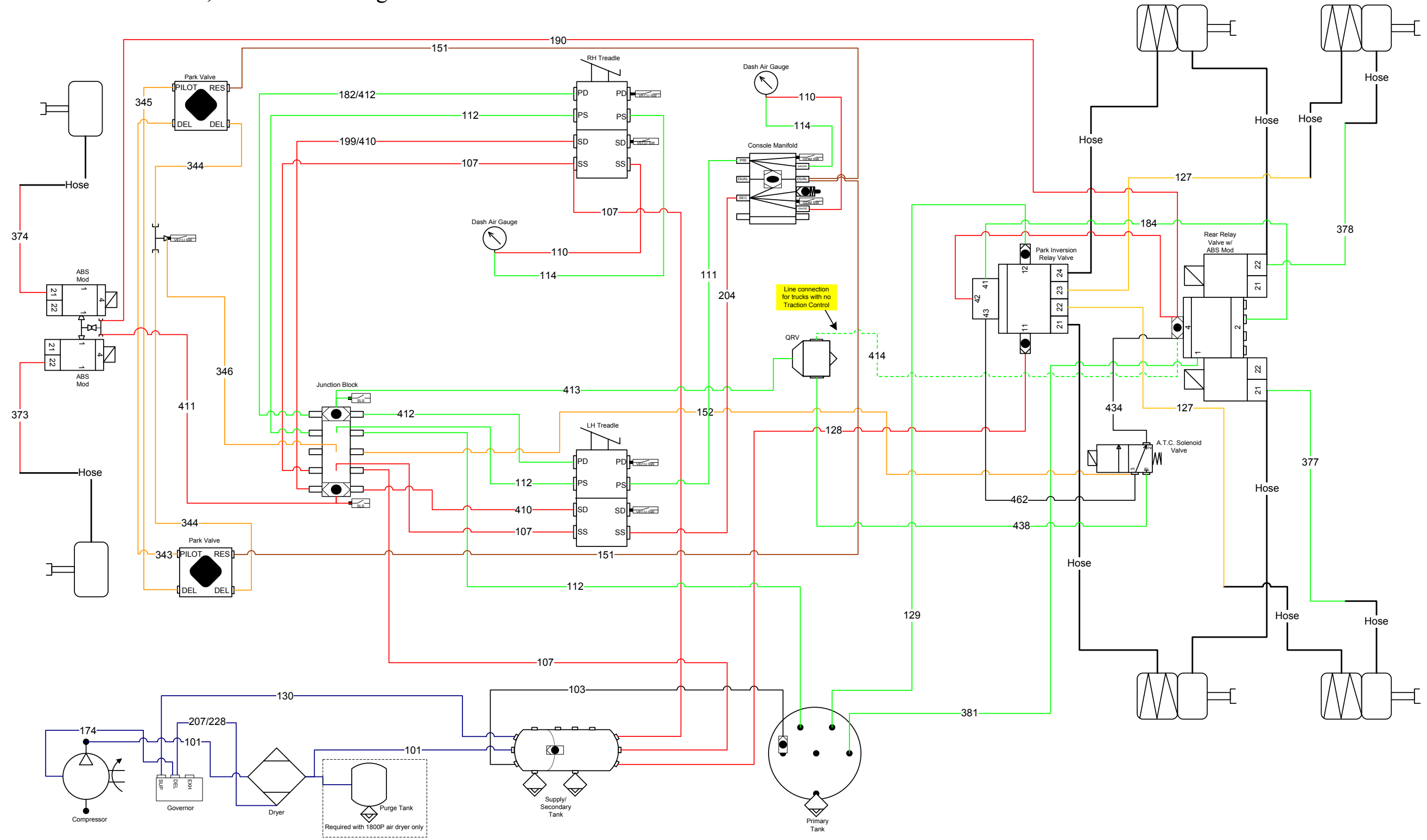
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3. LEU with Work Brake, with Dual Driving Positions




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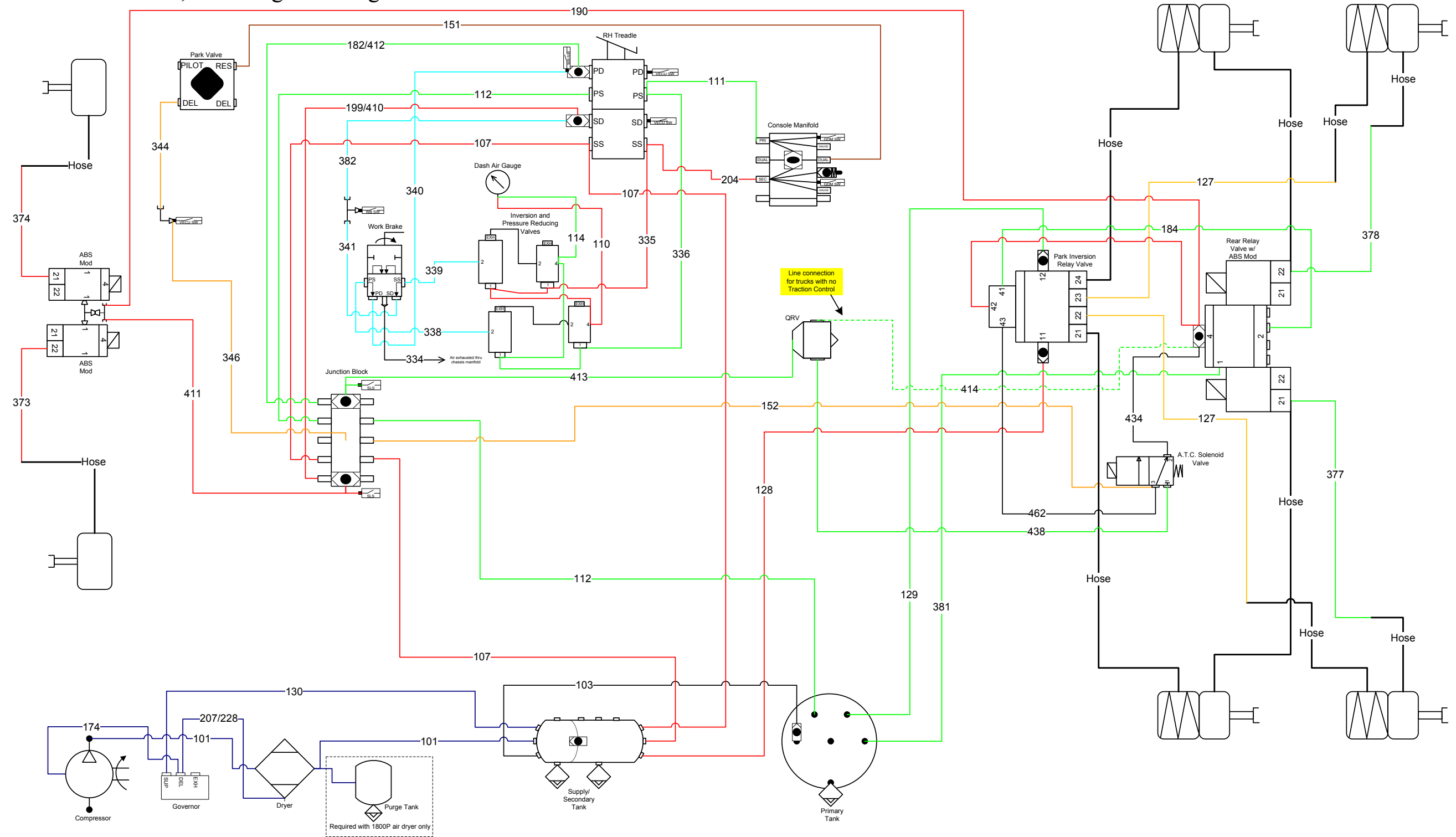
4. LEU without Work Brake, with Dual Driving Positions




Line connection for trucks with no Traction Control

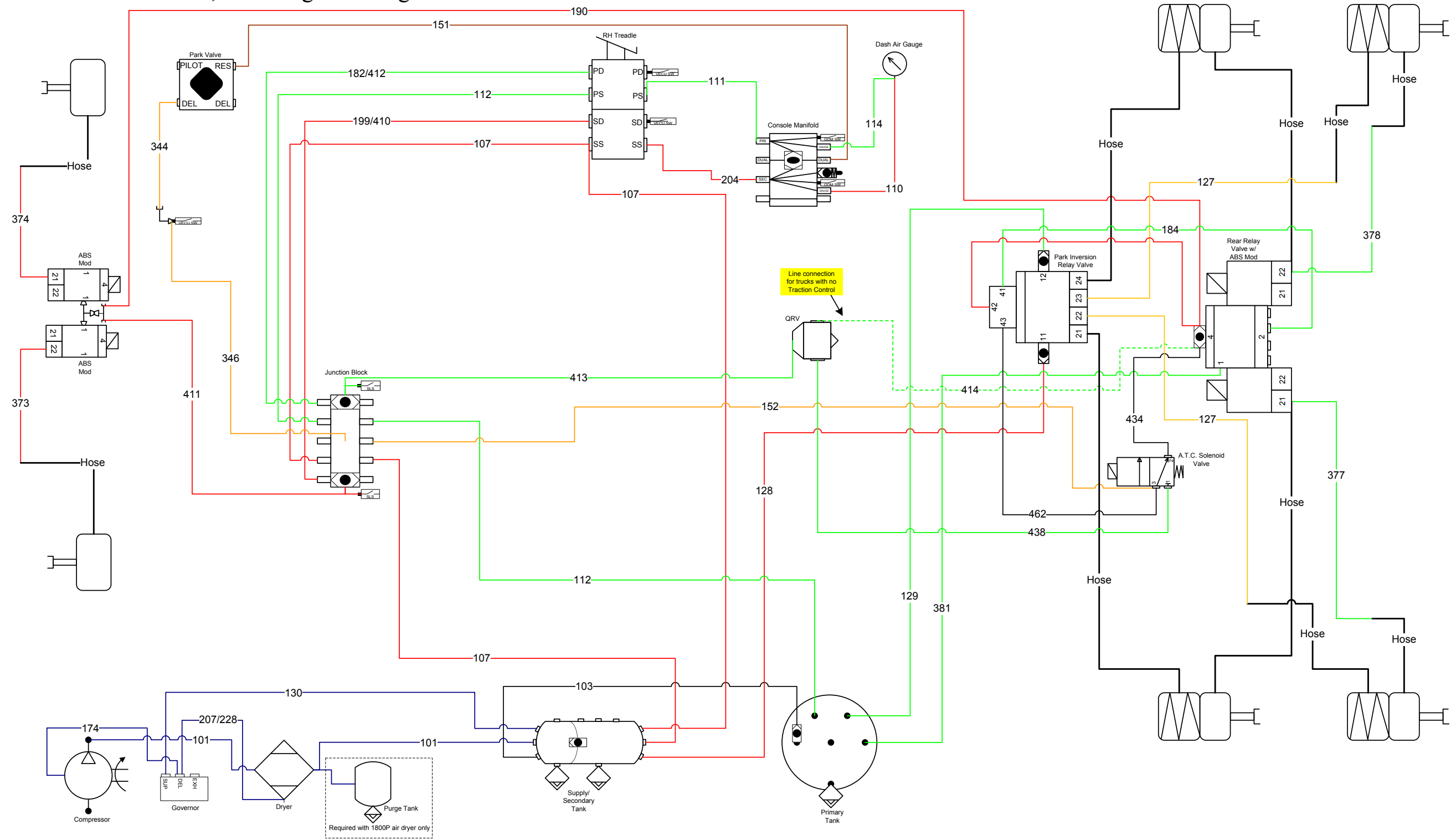
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5. LEU with Work Brake, with Single Driving Position

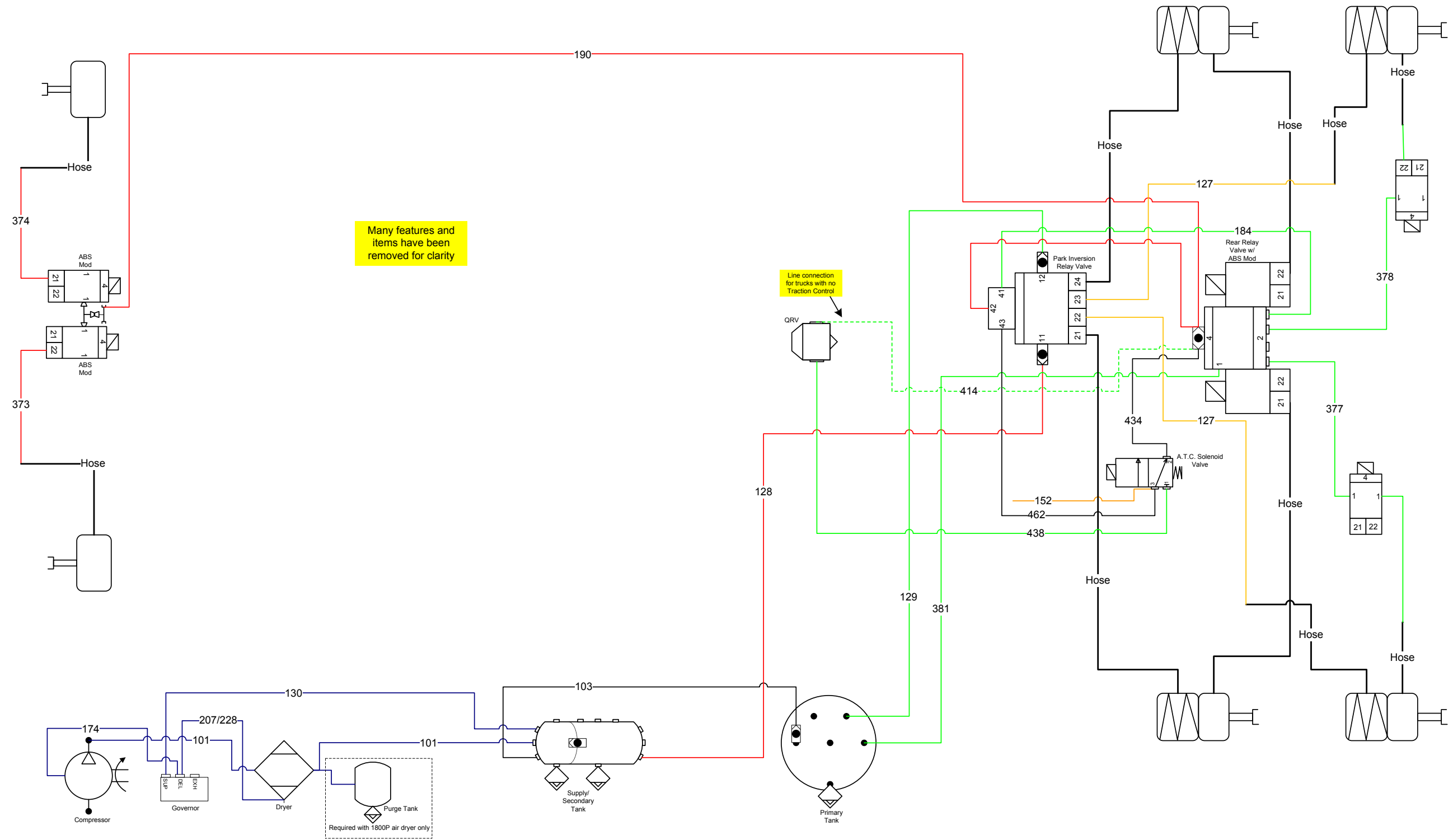


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6. LEU without Work Brake, with Single Driving Position




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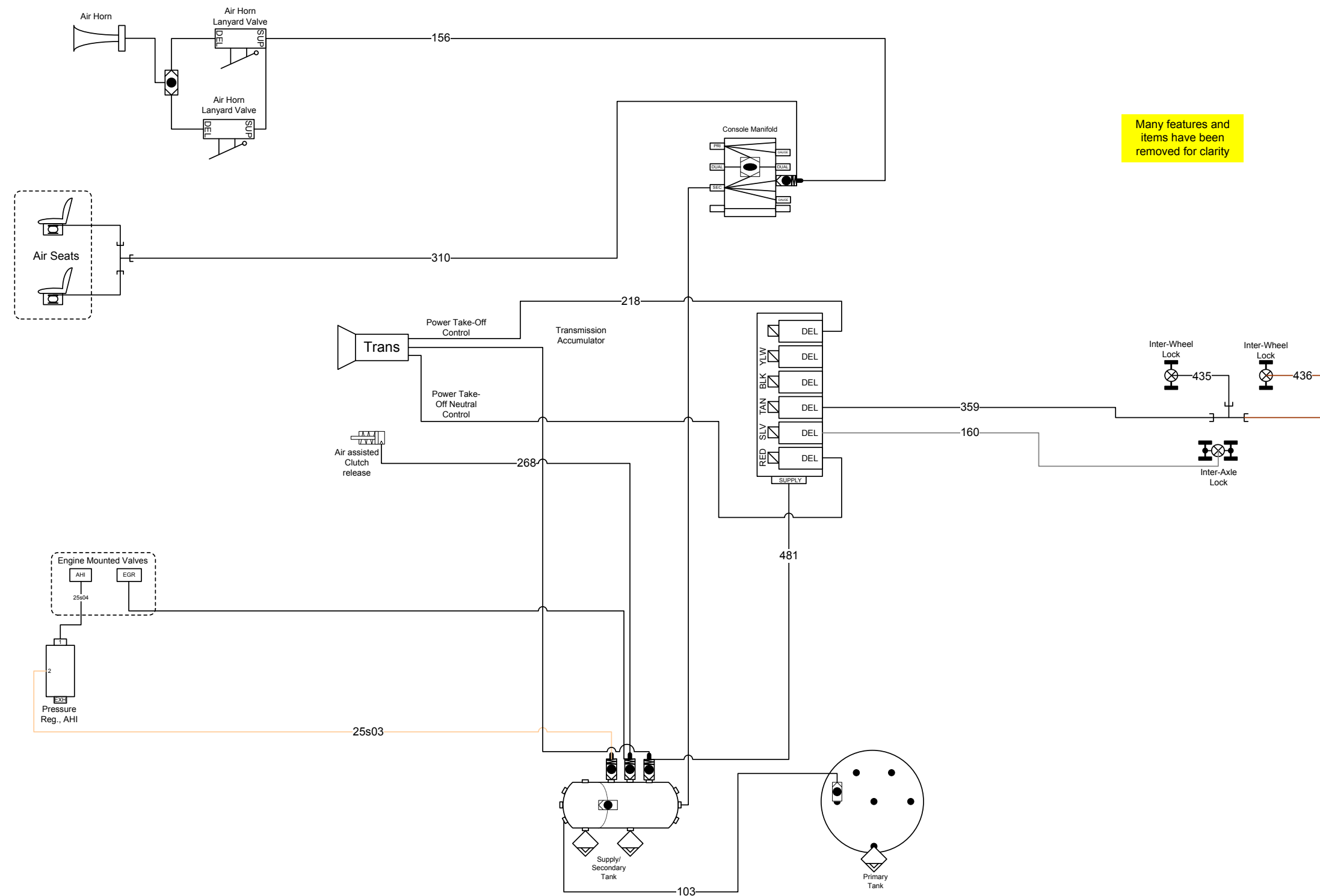


Many features and items have been removed for clarity

Line connection for trucks with no Traction Control

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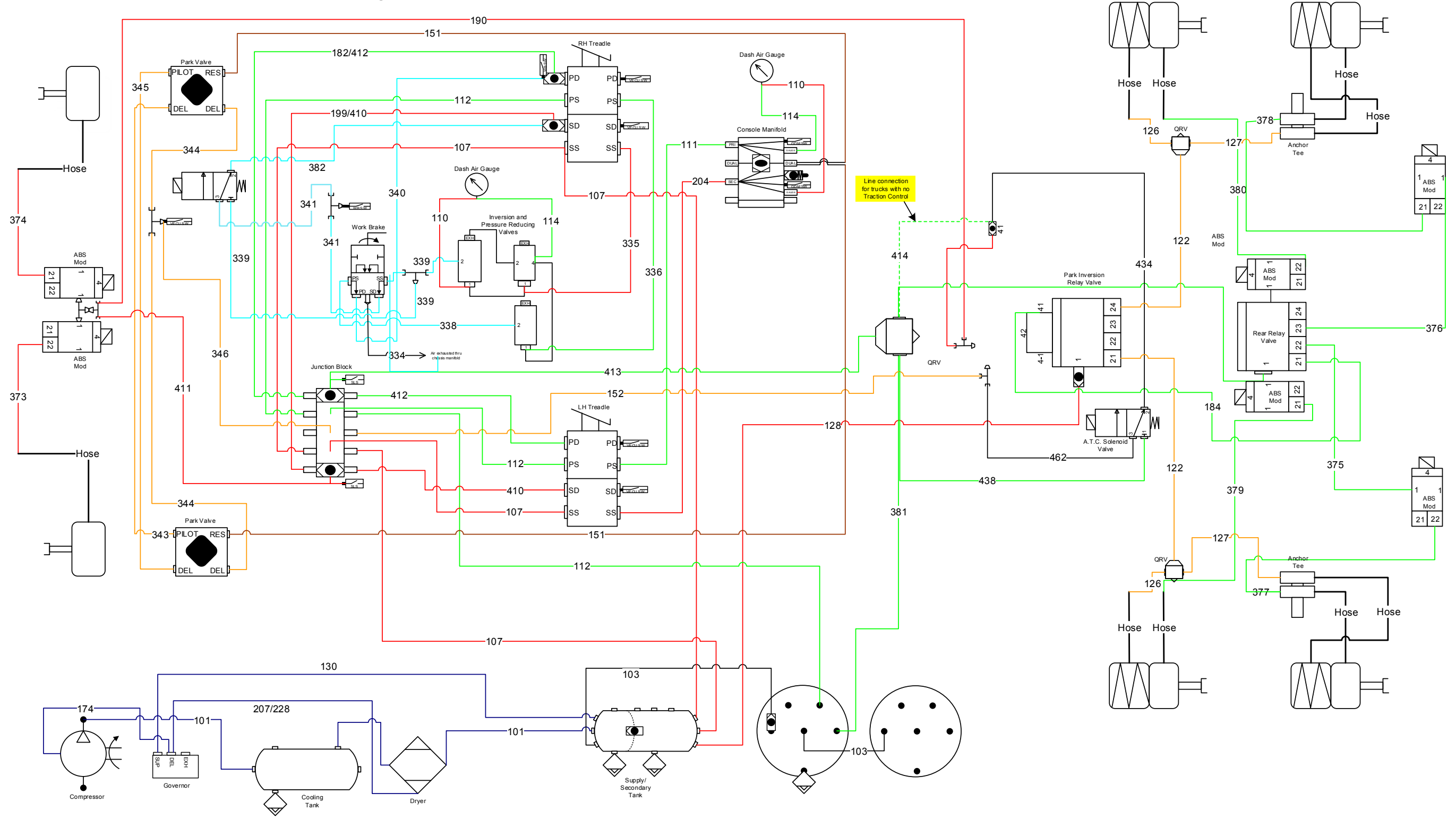
8. Auxiliary Systems on Pressure Protected Circuits




Many features and items have been removed for clarity

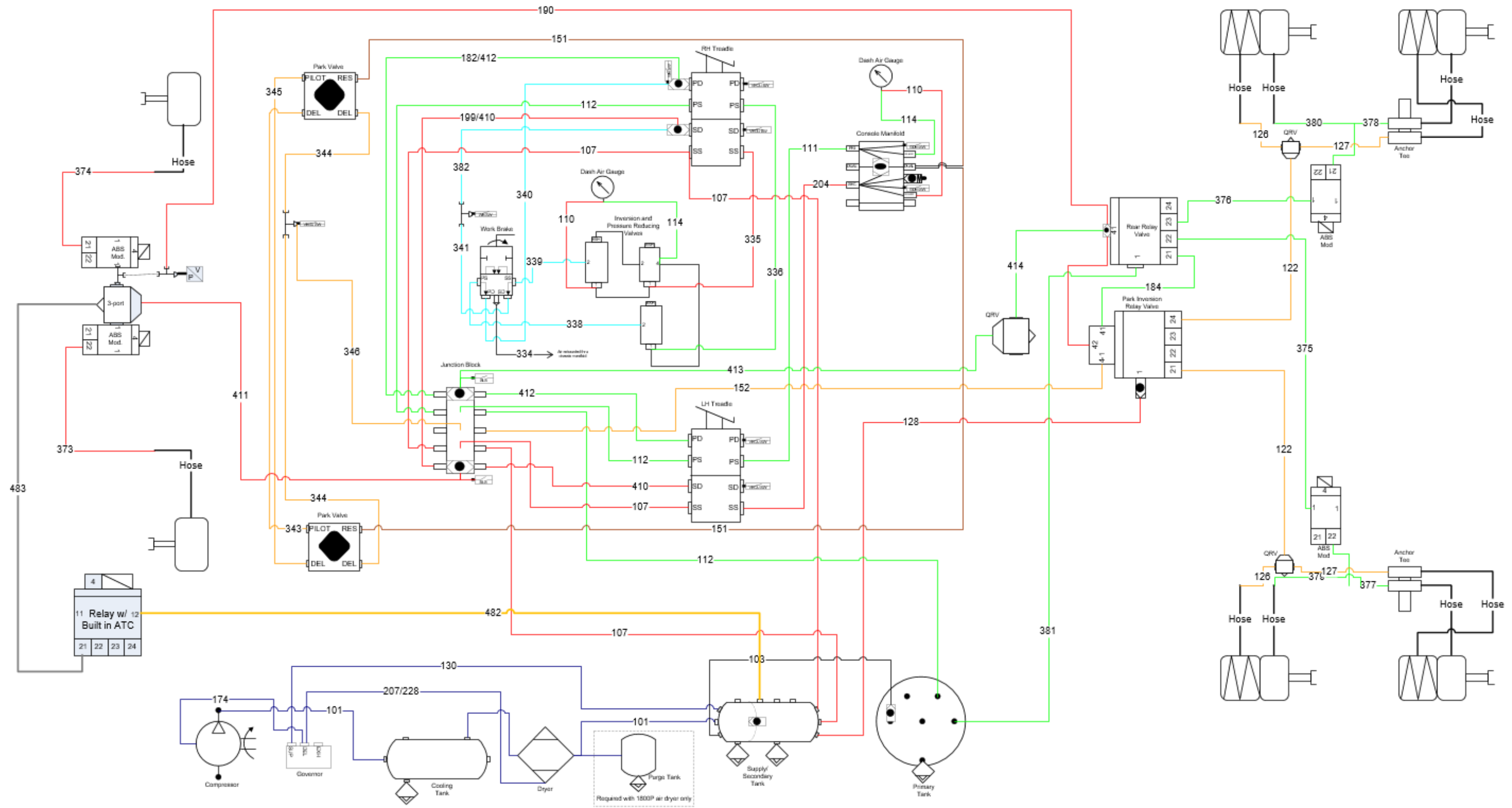
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9. LR with Work Brake, with Dual Driving Position



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10. LR with Work Brake, with Dual Driver Position, with ESP



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11. Air Line Numbers and Description

Line No.	Description	Color	Line Size
101	Compressor to Supply Reservoir	Blue	3/4"
103	Supply Reservoir to Primary Reservoir	Black	1/2"
107	Secondary Reservoir to Brake Valve, Supply	Red	1/2"
110	Secondary Reservoir to Low Pressure Indicator & Air Gauge	Red	1/4"
111	Supply from Primary Reservoir to Manifold	Green	3/8"
112	Primary Reservoir to Brake Valve, Supply	Green	1/2"
114	Primary Reservoir to Low Pressure Indicator & Air Gauge	Green	1/4"
122	Relay Valve Delivery to Rear Axle Spring Brake Tee	-	3/8"
126	Front Rear Axle Spring Brake Tee to Brake Chamber	-	3/8"
127	Rear Rear Axle Spring Brake Tee to Brake Chamber	-	3/8"
128	Secondary Reservoir to Parking Control Valve w/ Check Valve	Red	1/2"
129	Primary Air Reservoir to Parking Control Valve w/ Check Valve	Green	1/2"
130	Supply Reservoir to Governor Reserve Port	-	3/8"
134	Primary or Secondary Reservoir to Hand Control Valve, Supply	Green	3/8"
135	Hand Control Valve Delivery to Double Check Valve	Grey	3/8"
151	Primary or Secondary Reservoir Double Check Valve to Parking Brake Control Valve, Supply	Brown	3/8", 1/4"

Line No.	Description	Color	Line Size
152	Parking Brake Delivery to Spring Brake Control Valve, Supply	Orange	3/8"
156	Air Horn Supply	Black	1/4"
160	Power Divider Lock-Out Valve Delivery	Grey	1/4"
174	Governor to Compressor	Blue	1/4"
182	Brake Valve Delivery (Primary) to Service Relay Valve, Application	Green	1/2", 3/8"
184	Service Relay Valve, Delivery to Spring Brake Relay Valve, Balance (Anti-Compound)	-	1/2"
190	Brake Valve Delivery (Secondary) to Spring Brake Control Valve, Control	Red	3/8"
199	Brake Valve Delivery (Secondary) to Front Axle Quick Release Valve (Supply)	Red	1/2"
204	Secondary Supply to Cab Manifold	Red	3/8"
207	Air Governor Unloader Port to Automatic Drain Valve	Blue	1/4"
218	P. T. O. Control Valve - Delivery	-	1/4"
228	Air Compressor Unloader Port to Automatic Drain Valve Control Port	Blue	1/4"
268	Supply to Transmission Shift Valve	Black	3/8"
310	Air Supply to Air Susp. Seat(s)	Black	1/4"
334	Work Brake Control Valve Exhaust	-	1/2"
335	Secondary Reservoir (Supply) to Work Brake Pressure Reducing Valve Supply	-	3/8"

Line No.	Description	Color	Line Size
482	ESP Supply from Secondary	Orange	5/8
483	ESP Delivery to Steer axle QRV	Grey	1/2
484	ESP Delivery to Rear Relay	Yellow	3/8

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Line No.	Description	Color	Line Size
336	Primary Reservoir (Supply) to Work Brake Pressure Reducing Valve Supply	-	3/8"
338	Work Brake Pressure Reducing Valve Delivery to Work Brake Control Valve Supply (Primary)	-	3/8"
339	Work Brake Pressure Reducing Valve Delivery to Work Brake Control Valve Supply (Secondary)	-	3/8"
340	Work Brake Control Valve Primary Delivery to Double Check Valve Supply	-	3/8"
341	Work Brake Control Valve Secondary Delivery to Spring Brake Solenoid (In)	-	3/8"
343	RH Parking Brake Control Valve Delivery to LH Parking Brake Control Valve Control (Dual Drive only)	-	1/4"
344	Parking Brake Control Valve Delivery to Parking Brake Double Check Valve Supply	-	1/4"
345	LH Parking Brake Control Valve Delivery to RH Parking Brake Control Valve Control (Dual Drive only)	-	1/4"
346	Parking Brake Double Check Valve Delivery to Spring Brake Control Valve	-	1/4"
359	Inter-Wheel Power Divider Control Valve Delivery to Rear Axle	-	1/4"
373	LH ABS Modulator Valve Delivery to Front Axle Brake Chamber	Red	1/2"
374	RH ABS Modulator Valve Delivery to Front Axle Brake Chamber	Red	1/2"

Line No.	Description	Color	Line Size
375	Service Brake Relay Valve Delivery to LH ABS Modulator Valve Supply	-	5/8"
376	Service Brake Relay Valve Delivery to RH ABS Modulator Valve Supply	-	5/8"
377	LH ABS Modulator Valve Delivery to Rear Rear Axle Service Brake Chamber	-	1/2"
378	RH ABS Modulator Valve Delivery to Rear Rear Axle Service Brake Chamber	-	1/2"
379	LH ABS Modulator Valve Delivery to Front Rear Axle Service Brake Chamber	-	1/2"
380	RH ABS Modulator Valve Delivery to Front Rear Axle Service Brake Chamber	-	1/2"
381	Primary Reservoir to Service Brake Relay Valve Supply	Green	3/4"
382	Work Brake Control Valve Secondary Delivery to Secondary Double Check Valve Supply	-	3/8"
410	Brake Valve/Double Check Valve Secondary Delivery to Junction Block/Double Check Valve Secondary Delivery	-	1/2"
411	Junction Block/Double Check Valve Secondary Delivery to Front Axle Quick Release Valve Supply	-	1/2"
412	Brake Valve/Double Check Valve Primary Delivery to Junction Block/Double Check Valve Primary Delivery	-	3/8"
413	Junction Block/Double Check Valve Primary Delivery to Rear Axle Signal Quick Release Valve Supply	-	1/2"

Line No.	Description	Color	Line Size
414	Quick Release Valve Delivery to Rear Axle Service Relay Valve Application	-	1/2"
433	Treadle Valve Delivery (Primary) to Traction Control Solenoid	Green	1/2", 3/8"
434	Traction Control Solenoid Delivery to Rear Axle Service Relay Valve Application	-	1/2", 3/8"
435	Inter-Wheel Diff Loc Control Solenoid to Front Rear Axle Diff Loc Port	Black	1/4"
436	Inter-Wheel Diff Loc Control Solenoid to Rear Rear Axle Diff Loc Port	Brown	1/4"

Line No.	Description	Color	Line Size
438	Quick Release Valve Delivery (Primary) to Traction Control Solenoid	-	1/2"
462	Spring Brake Inversion Valve Supply to ATC Solenoid	-	1/4"
481	Secondary Reservoir to Pneumatic Solenoid, Supply	-	3/8"
25s03	AHI Regulator Valve Supply	Tan	1/4"
25d04	AHI Regulator Valve Delivery to Injector Air Pipe	White	1/4"

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