

Mack Chassis - Air Brake Routing Schematics For Models (CHU, CXU, TD, GU) - 7.2010



> Internal Content

For more information refer to the Service Bulletin Trucks - Date 7.2010 Group 561 No.32 - Air Brake Routing Schematics CHU, CXU, TD, GU here.



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Related links and attachments

Air System Schematic Mack



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Air Brake Routing Schematics

CHU, CXU, TD, GU

Air Brake Routing Schematics

The following information provides Air Brake Routing Schematics related to brakes and air systems.

There is no substitute for common sense and careful practices in the workplace. Improper practices or carelessness can cause burns, cuts, mutilation, asphyxiation, or other bodily injury or death.

Read and understand all of the safety precautions and guidelines before performing any

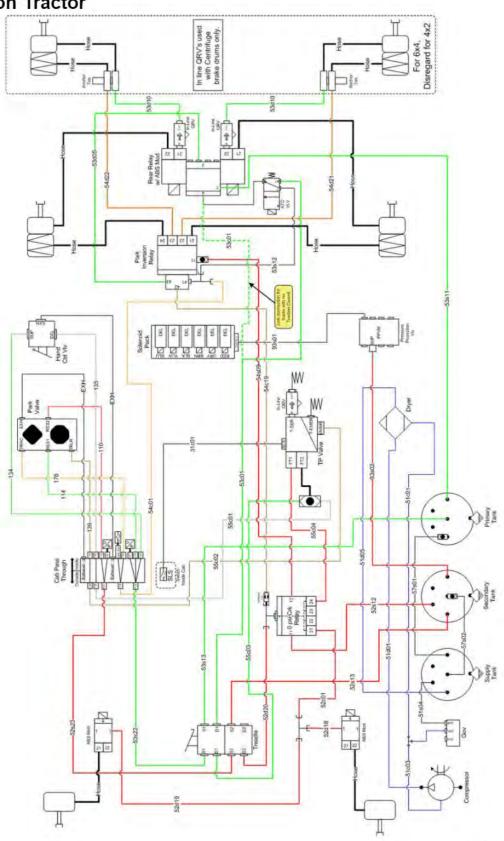
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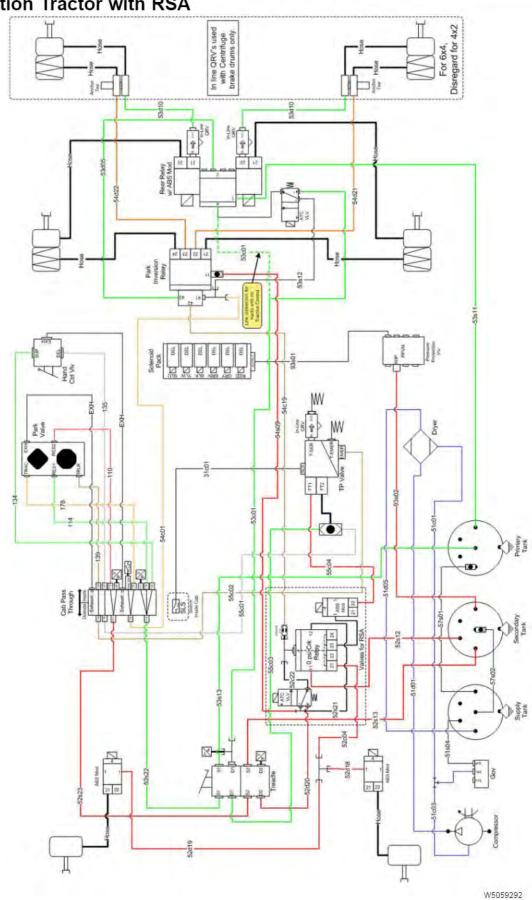
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Design and Function

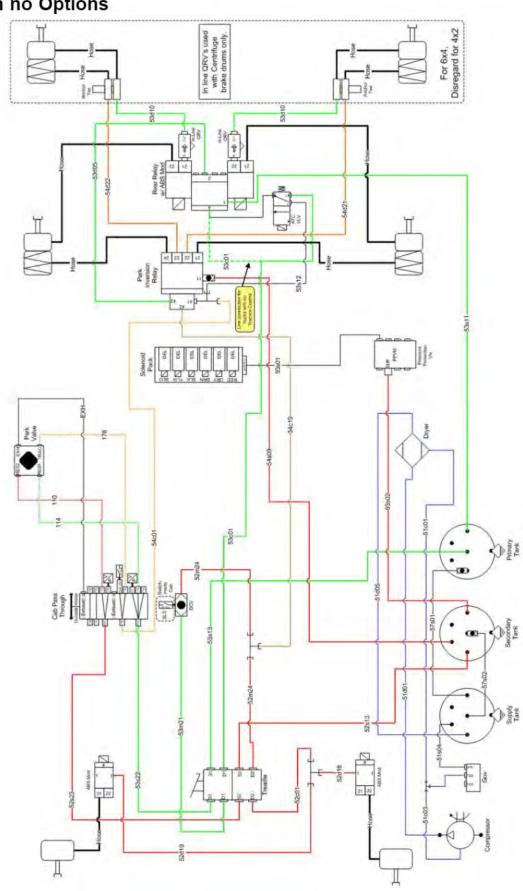
Construction Tractor



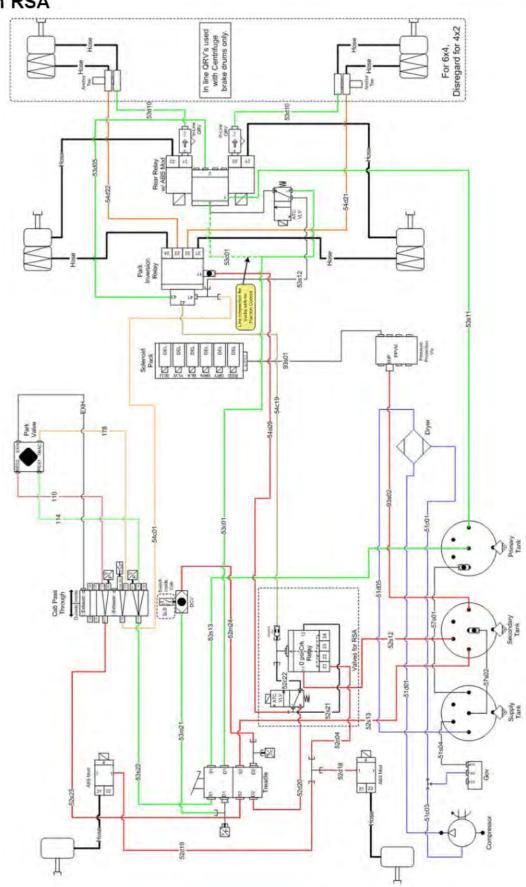
Construction Tractor with RSA



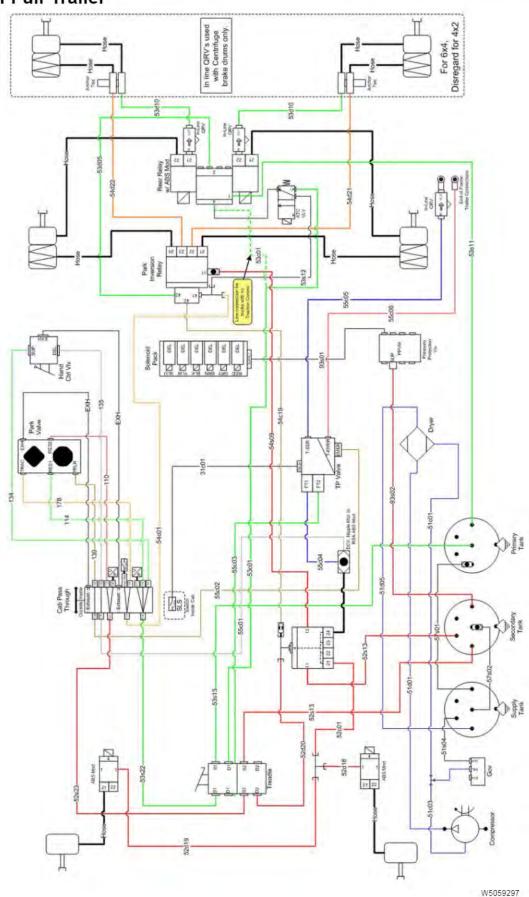
Rigid with no Options



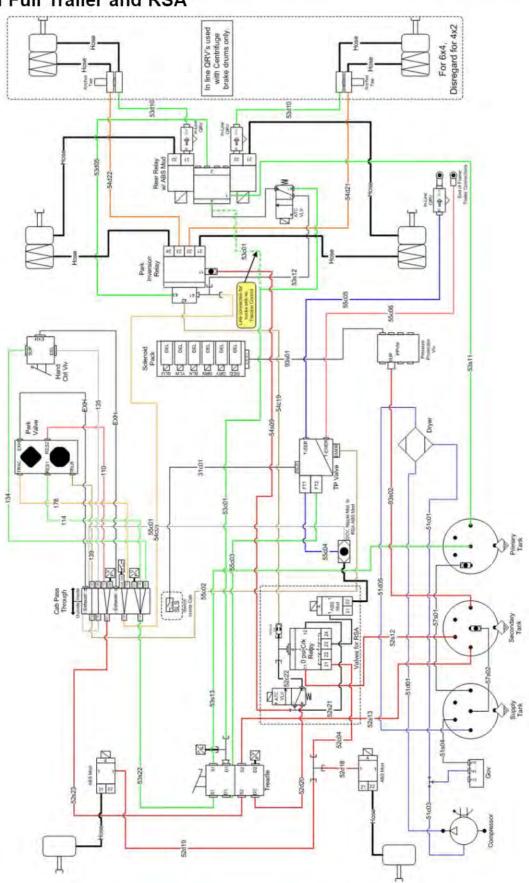
Rigid with RSA



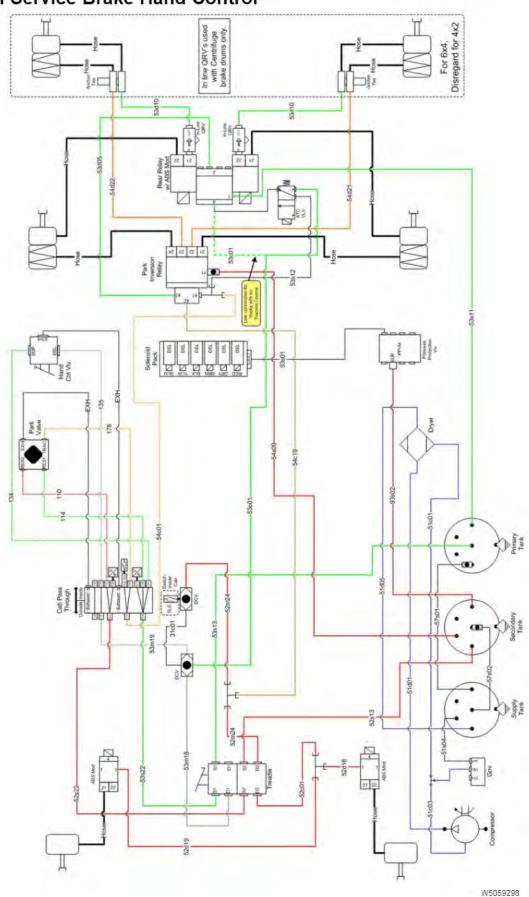
Rigid with Full Trailer



Rigid with Full Trailer and RSA

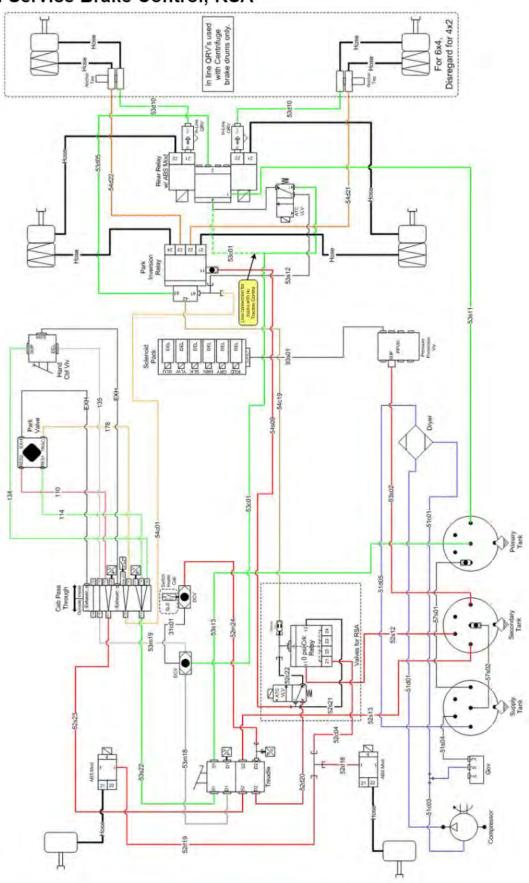


Rigid with Service Brake Hand Control

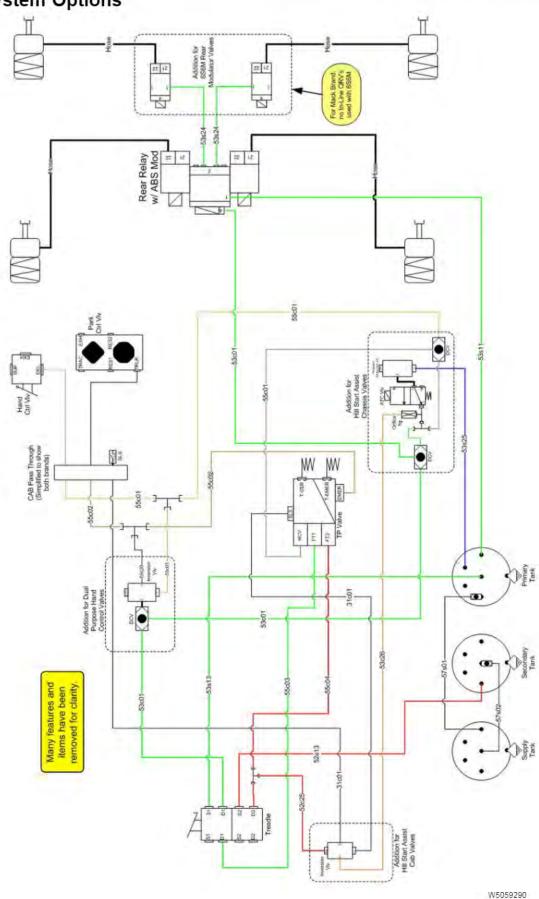


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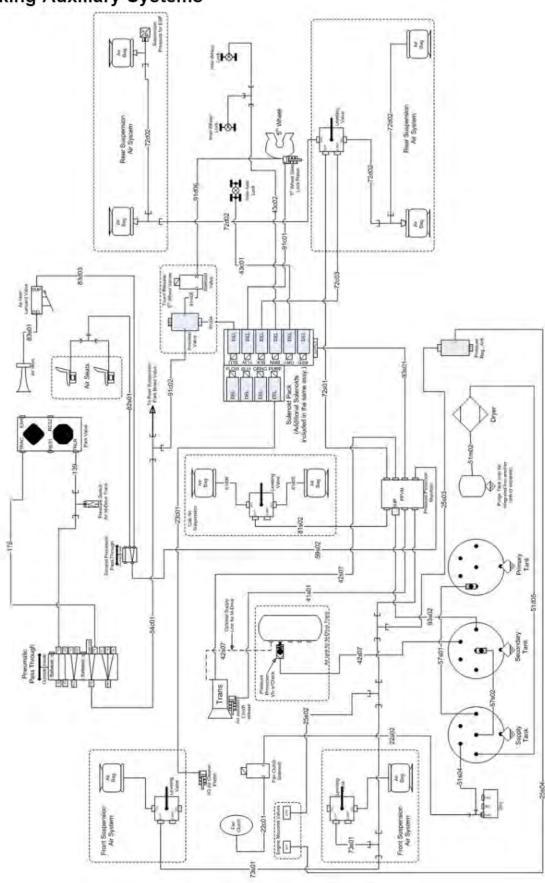
Rigid with Service Brake Control, RSA



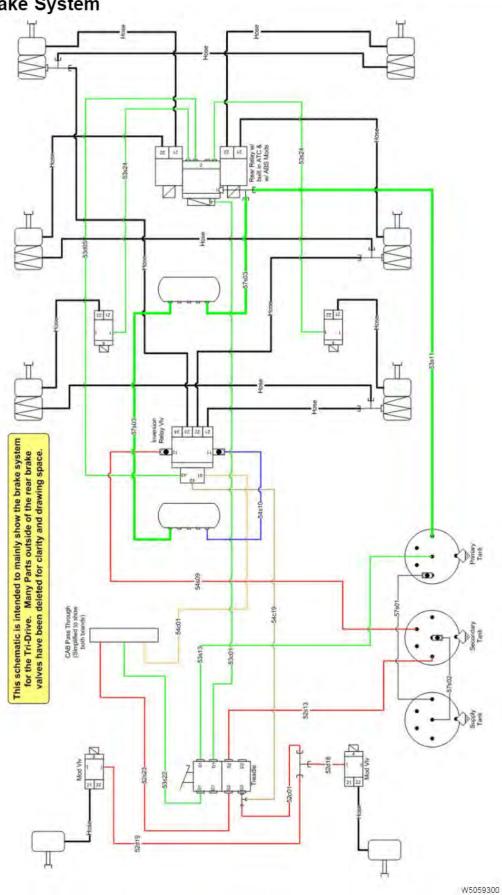
Brake System Options



Non-Braking Auxiliary Systems



Tri-Drive Brake System



Air Line Numbers and Description

	Engine with Mounting and Equipment	Color	Line size (inches)
	Exhaust brake		
21s01	Air Supply to Engine Exhaust Brake	Black	1/4
	Fan Clutch		
22c01	Fan Clutch Control, Solenoid to Clutch	Green	1/4
22s02	Fan Clutch Solenoid Supply	Green	1/4
	Air Cleaner		
23c01	Air Cleaner Intake Control	Purple	1/4
	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
25s04	AHI Regulator Valve Delivery to Injector Air Pipe	White	1/4

	Electrical Lighting the Instruments	Color	Line size (inches)
	Switches		
31c01	Stop Light Switch Control	Black	1/4
31m02	Primary/Secondary Jumper	Grey	3/8
31m03	Hand Control Jumper	Grey	3/8
	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

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	Power Transmission	Color	Line size (inches)
	Switches		
41s01	Clutch Release Air Assist Supply	Black	3/8
41c02	Neutral Switch	Red	1/4
	Gearbox		
42s01	Gearbox Air Shift	Black	3/8
42s07	Transmission Supply	Black	3/8
	Rear Axle(s)		
43c01	Inter Axle Lock (Diff Axle)	Grey	1/4
43c02	Inner Wheel Lock (Diff Wheel)	Brown	1/4
	Power Tale-Off (PTO)		
44d01	PTO Solenoid Delivery		1/4
44s02	PTO Solenoid Supply	Orange	1/4

	Brake	Color	Line size (inches)
	Compressor, Regulator, Anti-Freeze Unit		
51d01	Delivery from the compressor		
51m02	Air Dryer to Purge Tank	Blue	3/8
51c03	Compressor Unload from Governor	Blue	1/4
51s04	Governor Supply from We Tank	Yellow	3/8
51d05	Air Dryer Delivery to Wet Tank	Blue	5/8
51c01	Air Dryer Purge Control from Governor	Blue	1/4
	Front Circuit		
52c01	Foot Brake Valve to QRV/Tee (BSYS-CON)	Red	1/2
52c03	Redundant Rear Control	Brown	3/8
52c04	ESP Relay to ABS Modulator	Black	1/2
52d04	QRV/Relay to ABS Modulator	Red	1/2
52d05	ABS Modulator to Brake Chamber	Rubber Hose	1/2
52s12	Front Circuit/ESP Relay Supply	Red	5/8
52s13	Front Circuit Foot Brake Valve Supply	Red	5/8
52m17	Front Brake Valve to Front Circuit Pressor 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 ESP ATC Valve/ESP Relay Control Port	Red	1/2
52s21	ESP ATC Valve Supply	Black	3/8, 1/2
52c22	ESP ATC Valve Control to Relay Control	Black	3/8
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
	Rear Circuit		
53c01	Rear Service Relay Control from Treadle Valve	Green	3/8, 1/2
53c02	SBHC Control from Cab to Treadle DCV	Grey	1/4, 3/8
53c03	6S6m QRV Control from Rear Relay	Green	5/8
53d05	Anti-compounding from Rear Relay	Green	3/8
53d06	Relay to ABS Modulators (ABS Solenoid Valve)	Green	5/8
53d09	ABS Solenoid Valve to Brake Chambers (ABS)	Green, Rubber	5/8, Hose
53d10	Service Relay Valve to Brake Chambers (Without ABS)	Green, Rubber	5/9, Hose
53s11	Service Relay Supply from Air Tank (2 for GU and Titan)	Green	3/4, 5/8
53s12	Traction Control Supply from Park Valve Control	Green	1/4, 3/8
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	
53m20	Treadle Valve to Rear Circuit Pressure Sensor	-	1/4	
53m21	Treadle Valve to SLS DCV, Rigid Only		1/4, 3/8	
53m22	Treadle Valve to Pass Through Supply to Park Valve		3/8	
53s23	Service Brake Hand Control Supply	Green	3/8	
53s24	6S6M Rear Axle ABS Modulator Supply	Green	5/8	
53s25	Hill Start Assist Supply	Blue	1/4	
53s26	Hill Start Assist Control	Green	1/4	
	Parking Brake			
54c01	Spring Brake Control	Orange	3/8	
54d03	QRV/Relay Valve to Rear Spring Brake Chambers	Rubber	Hose	
54d07	Joint Fitting at Rear Axle to LH Spring Brake Chamber	Rubber	Hose	
54d08	Joint Fitting at Rear Axle to RH Spring Brake Chamber	Rubber	Hose	
54s09	Inversion Relay Secondary Supply	Red	1/2	
54s10	Inversion Relay Primary Supply	Blue	1/2	
54m16	Park Control Exhaust from Dash Valve	Yellow	3/8	
54c19	Redundant Control Line from Treadle Valve	Brown	3/8	
54m20	Park Chamber Jumper Lines, Chambers Left to Right	Black	1/2	
54d21	Park Valve to Joint Fitting, LHS	Black	1/2	
54d22	Park Valve to Joint Fitting, RHS	Black	1/2	
Trailer Brake				
55c01	Hand Control from Cab	Grey	3/8	
55c02	Spring Brake Control from Cab	Brown	3/8	
55c03	Primary Control from Treadle Valve	Green	1/4, 1/2	
55c04	Secondary Control from Treadle Valve	Red	3/8	
55c05	EOFA Trailer Secondary Service Control from Relay	Blue	3/8, 1/2, 5/8	
55c06	EOFA Trailer Park Control from Cab	Red	3/8	
55m15	Hand Control Exhaust	Yellow	1/4	
55c20	Trailer Park Control Tee to DFHC Inversion Control	Brown	3/8	
55s22	Hand Control Tee to DFHC Inversion Supply	Grey	3/8	
55c23	Control from ESP Trailer Modulator to Trailer Secondary Control	Red	3/8	
55c24	Trailer Relay Control	Blue	3/8	
55s25	Trailer Relay Supply	Black	1/2	
55d26	Trailer Relay Delivery to TPV	Blue	1/2	
	Hydraulic Retarder			
56s001	Manifold for Aux Equipment to Retarder	Black	3/8	

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	Air Tanks		
57s01	Primary Tank Supply	Black	1/2
57s02	Secondary Tank Supply	Black	1/2
57s03	Rear Primary Tank Supply	Green	5/8, 3/4
57s04	Auxiliary Axle Tank Supply	Black	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
	Auxiliary Equipment		
59s02	Auxiliary Manifold to Cab		

93s02

PPV Manifold Supply from Secondary Air Tank

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	Frame, Springs, Damping and Wheel	Color	Line size (inches)		
Air Suspension Rear Axle(s)					
72s01	Leveling Valve Supply form PPVM	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	Purple	3/8		
72d05	Rear-Rear Bellows Pressure 6x2 to Cab	Orange	3/8		
72d11	Front Bellows to Rear Bellows	Blue	3/8		
	Air Suspension Front Axle(s)I				
73s01	Leveling Valve Supply from PPVM	Black	1/4		
73d02	Air Bellow Pressure (left) from Leveling Valve	Yellow	1/4		
73d08	Air Bellow Pressure (left) from Tee to Cab	Yellow	1/4		
	Cab	Color	Line size (inches)		
	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		
	Seat Suspension				
82s01	Seat Suspension Supply from PPVM	Black	1/4		
	Air Horn				
83s01	Solenoid Valve Pack to Air Horn	Red	1/4		
83d03	Auxiliary Manifold to Air Horn Lanyard Valve	Black	1/4		
	Miscellaneous, Special Funcitons	Color	Line size (inches)		
	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		
Miscellaneous					
93s01	Solenoid Valve Pack Supply from PPVM	Orange	3/8		

Red