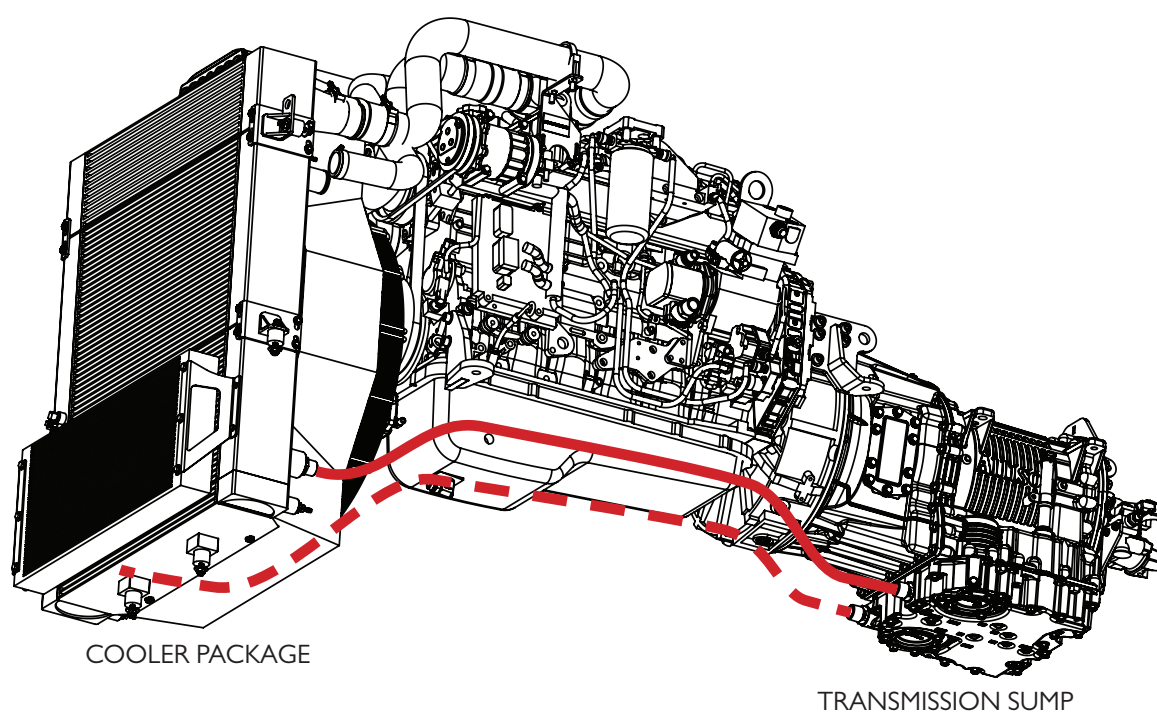


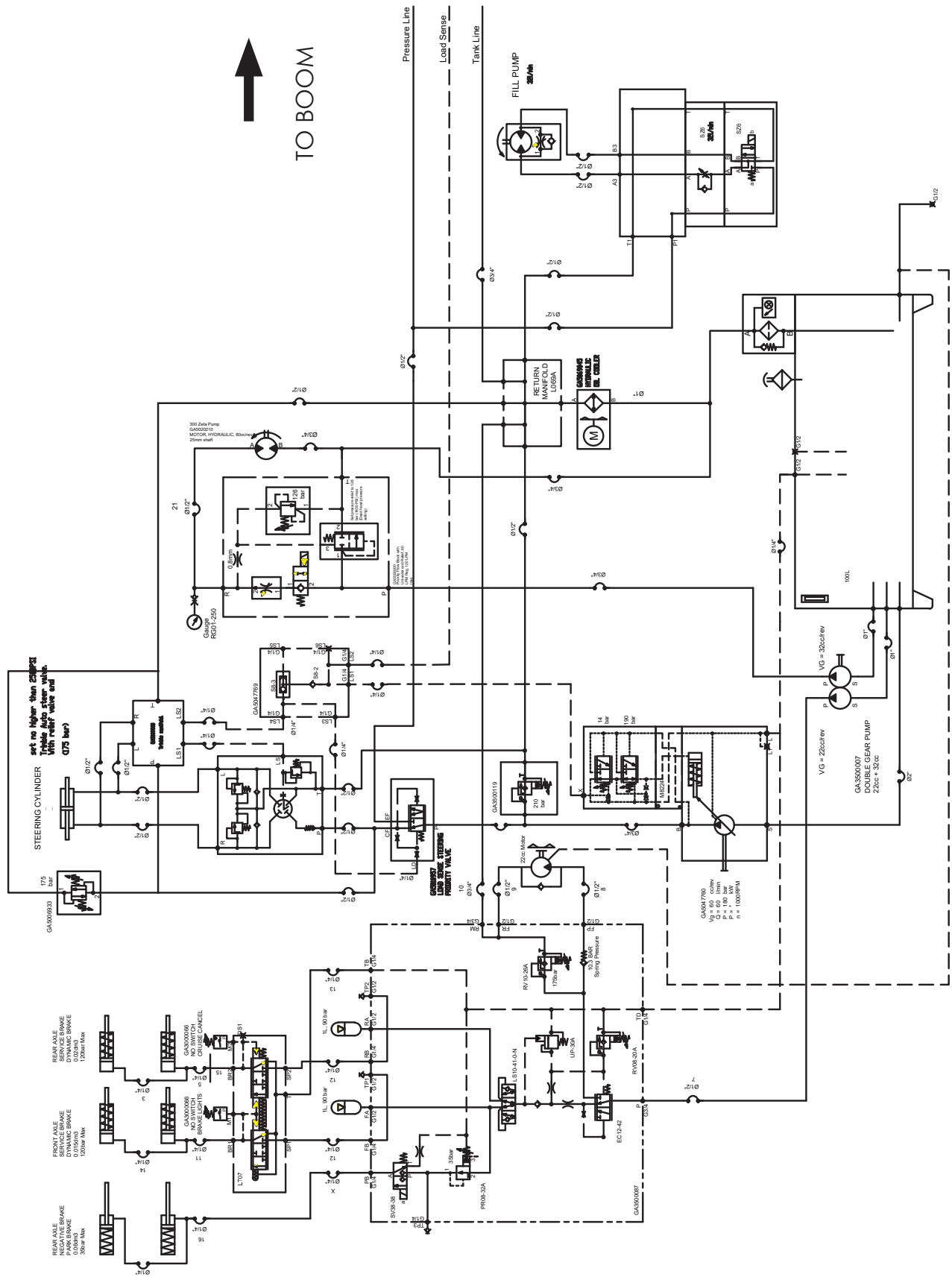
Chapter 16

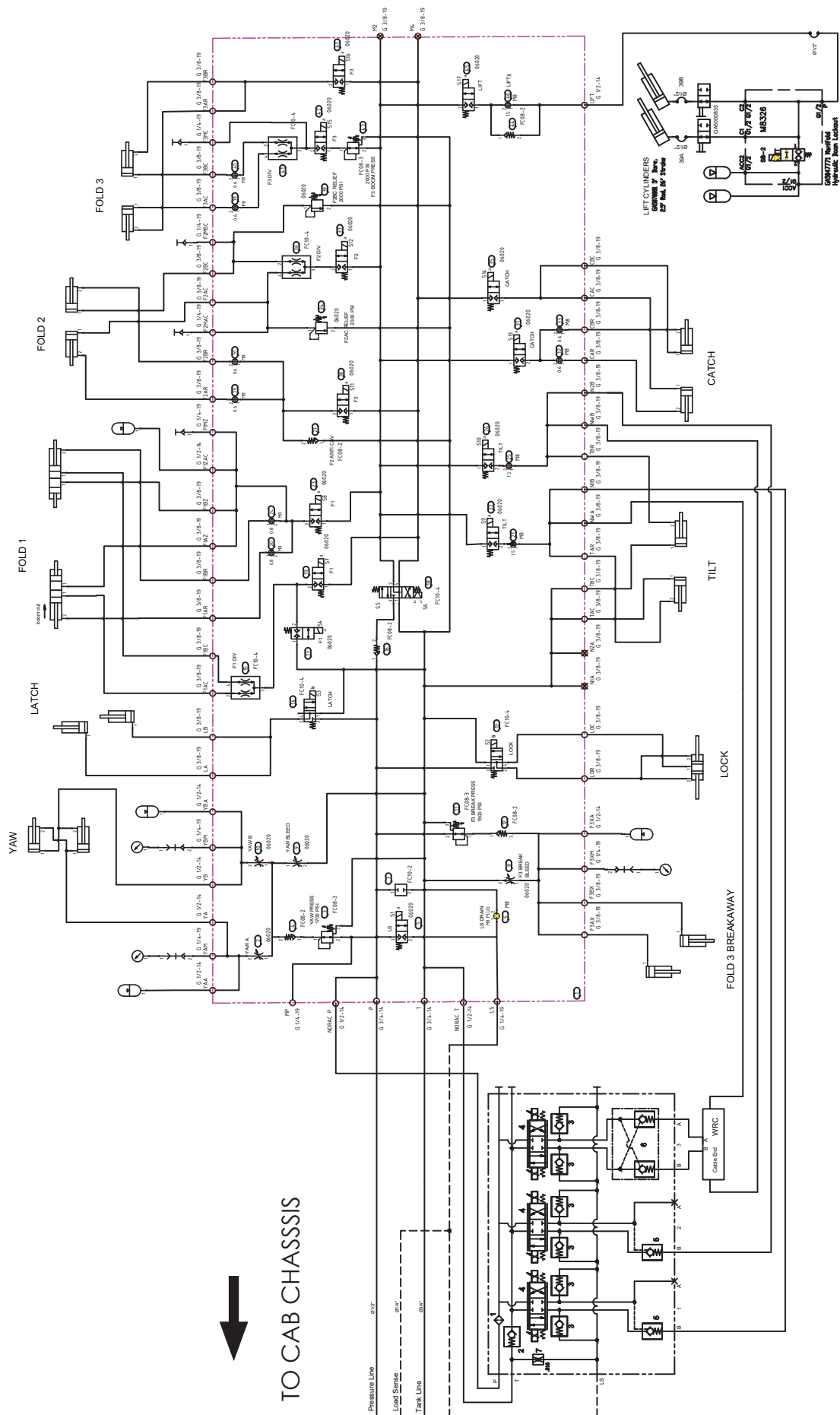
SCHEMATICS

Hydraulics - Transmission Lines

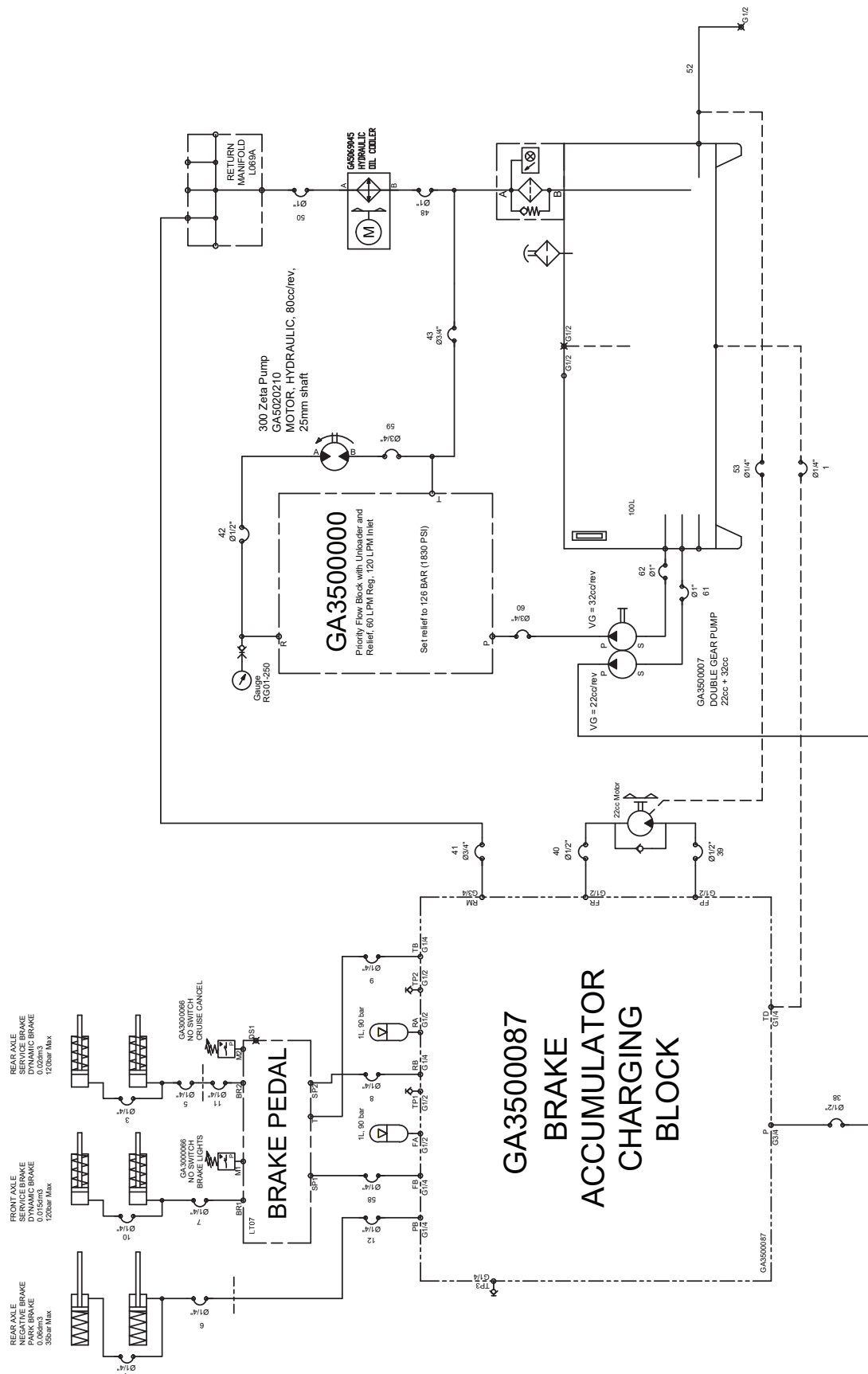


Hydraulics - General 48 m

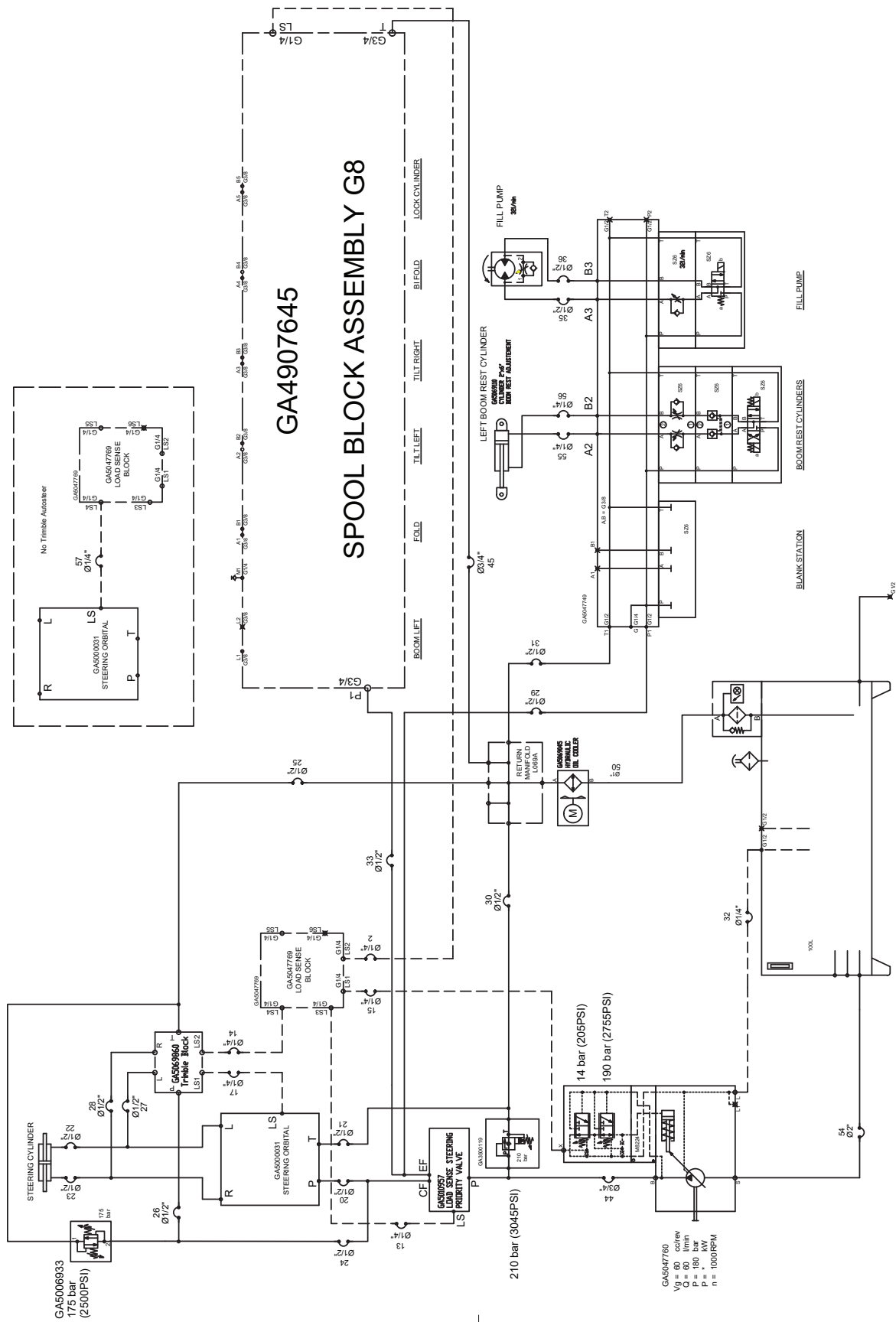




Hydraulics - Braking System

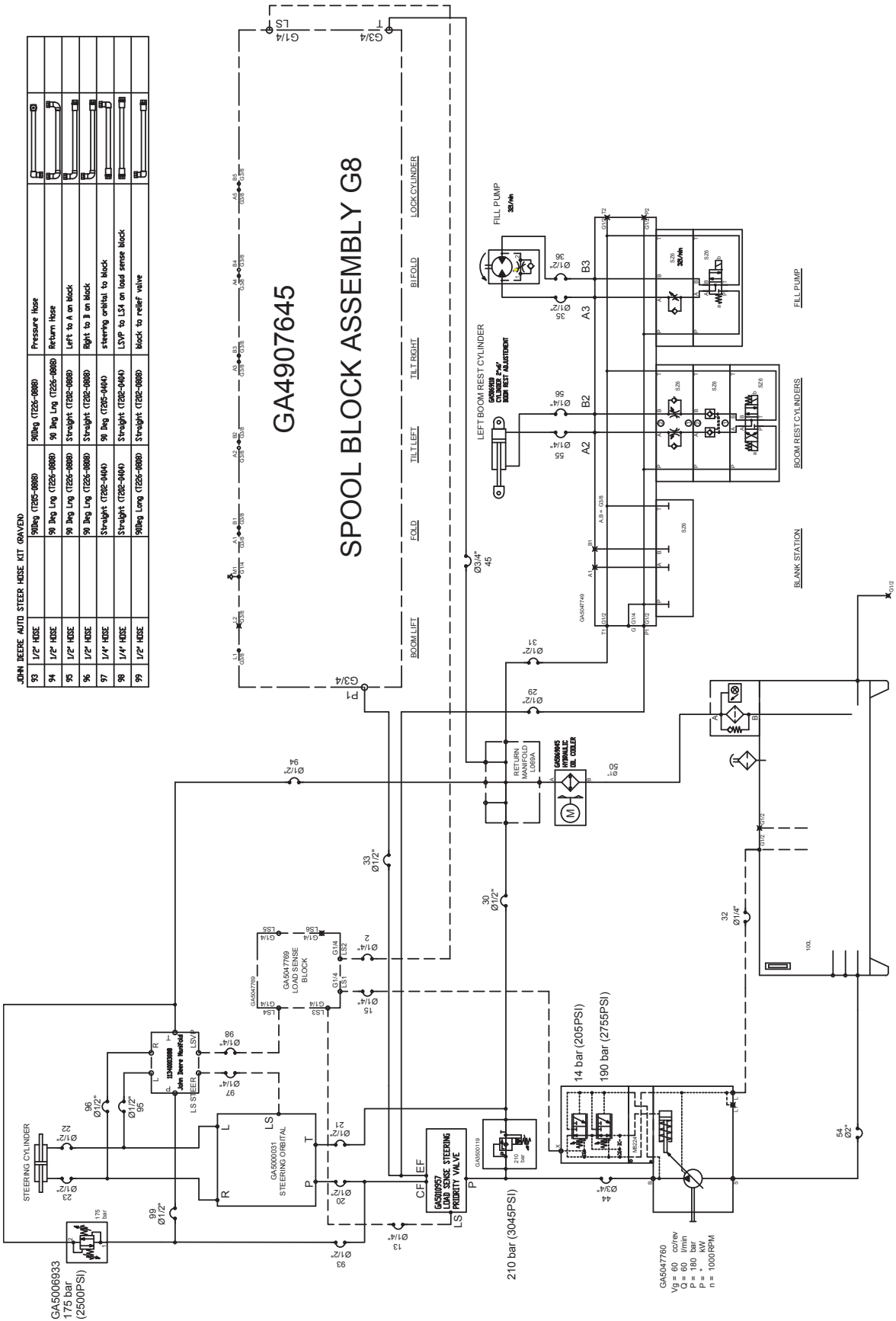


Hydraulics - Trimble Steering

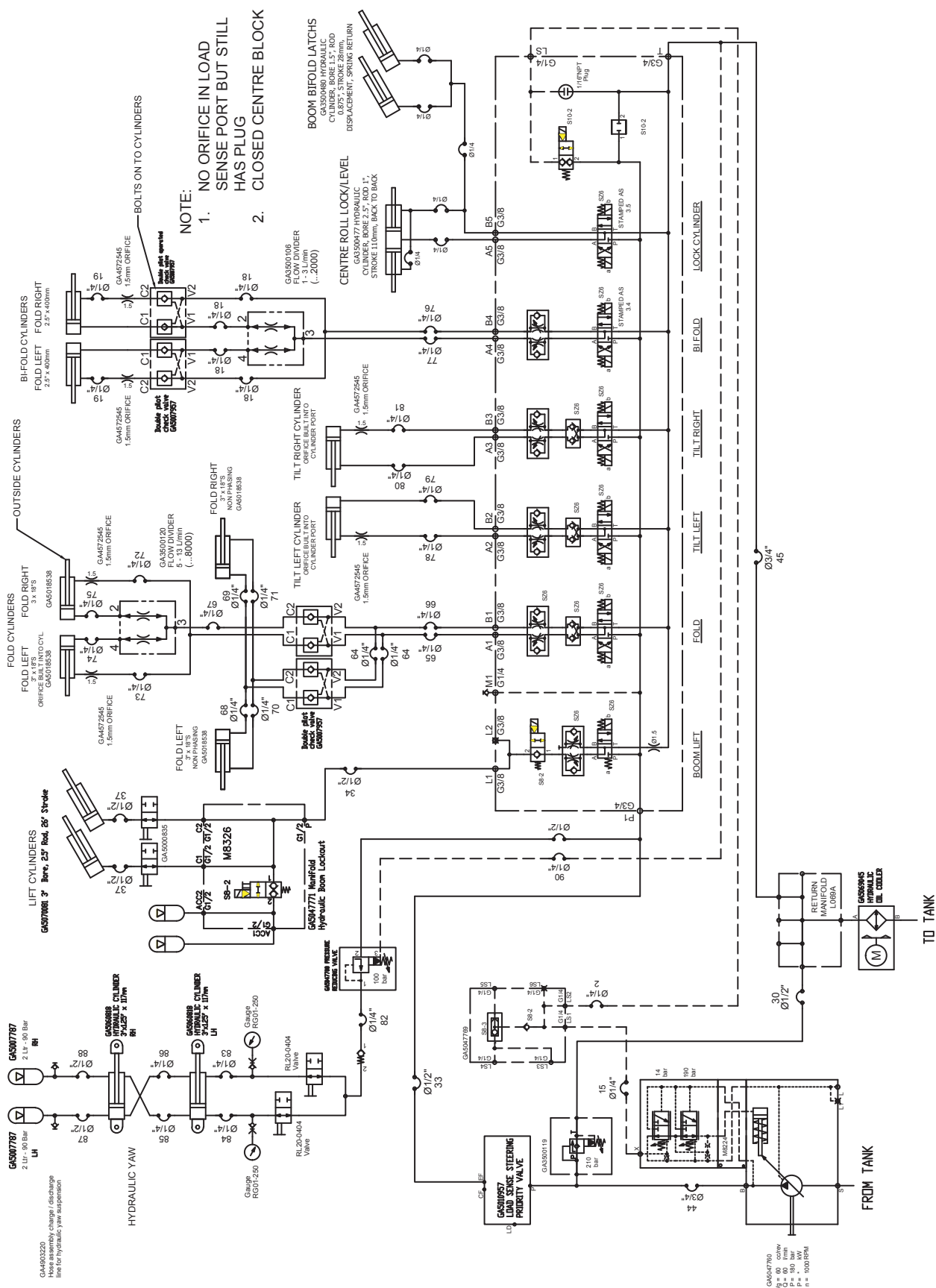


Hydraulics - John Deere Steering

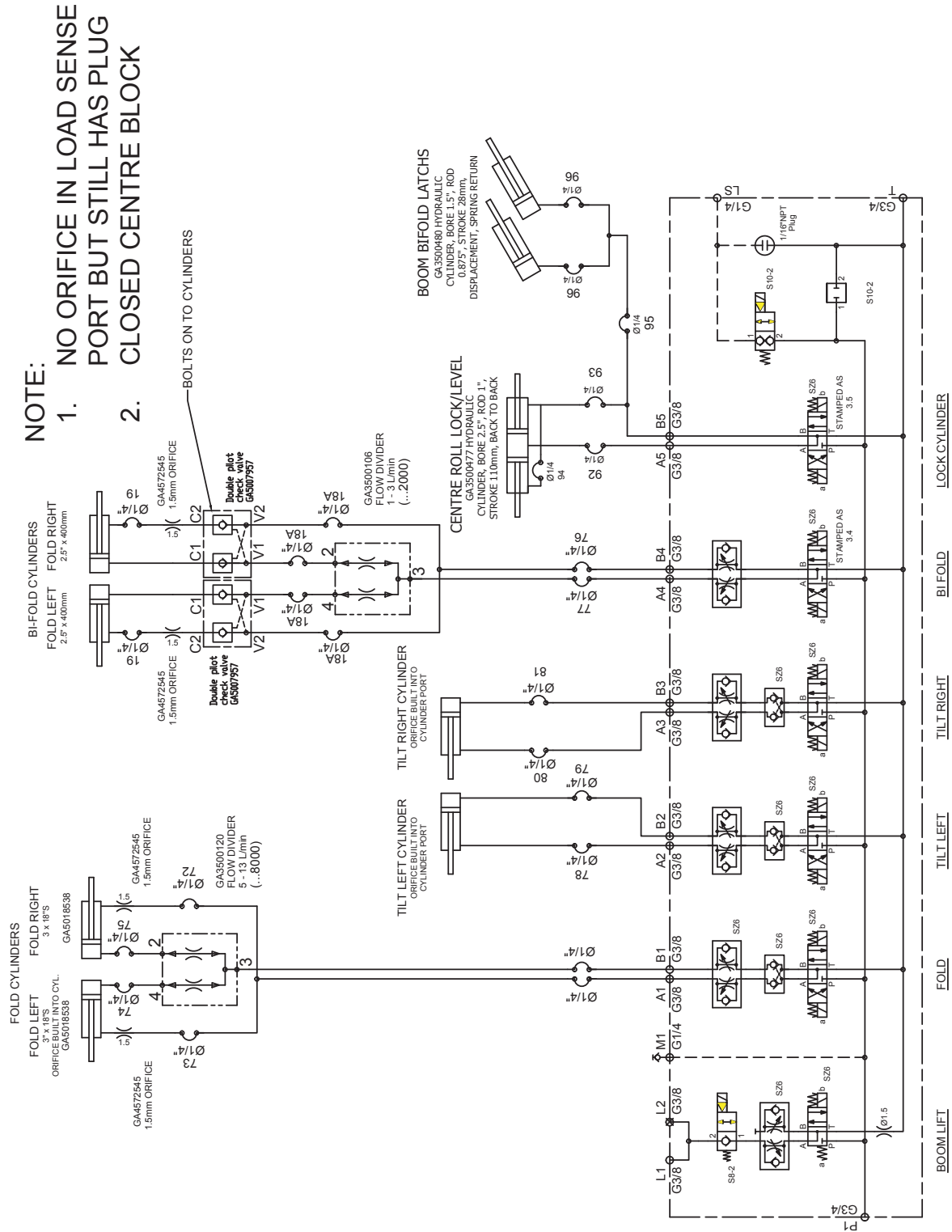
JDM	BEDE	AUTO	STEER	HSE	KIT	DAVENO			
93	1/2"	HSE				90deg (T235-0080)	90deg (T235-0080)	Pressure hose	
94	1/2"	HSE				90 Jng Lng (T235-0080)	90 Jng Lng (T235-0080)	Return hose	
95	1/2"	HSE				90 Jng Lng (T235-0080)	Straight (T235-0080)	Left to A on black	
96	1/2"	HSE				90 Jng Lng (T235-0080)	Straight (T235-0080)	Right to B on black	
97	1/4"	HSE				Straight (T235-0400)	90 Jng (T235-0400)	steering control to black	
98	1/4"	HSE				Straight (T235-0400)	Straight (T235-0400)	LSV to L34 on load sense block	
99	1/2"	HSE				90deg Long (T235-0080)	Straight (T235-0080)	block to relief valve	



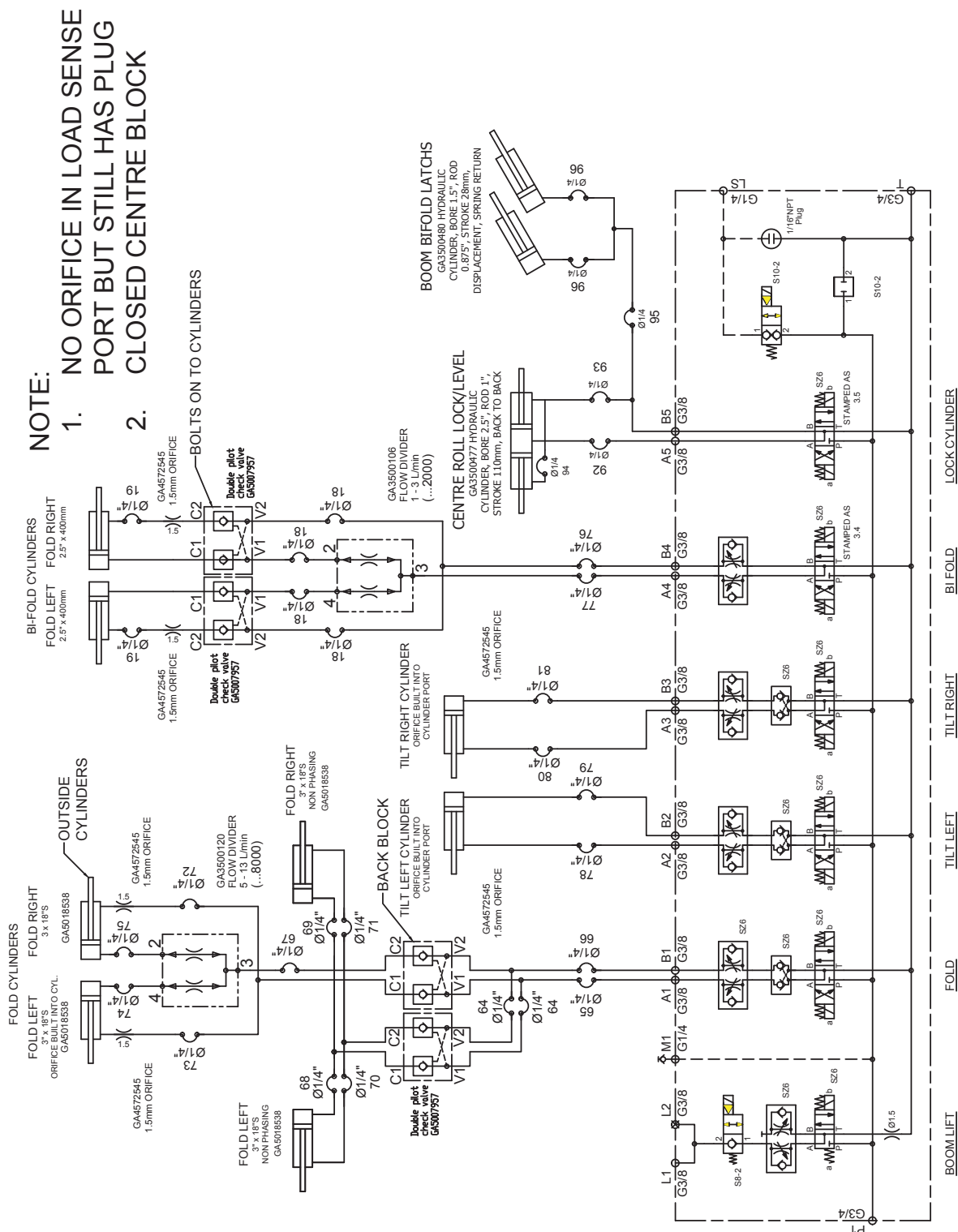
Hydraulics - General 36-42 m



Hydraulics - Booms Detail 36 m



Hydraulics - Booms Detail 42 m



Hydraulics - Hose List

HOSE NO.	HOSE SIZE	LENGTH	END FITTING 1	END FITTING 2	DESCRIPTION	QTY.
1	1/4" Black	1040mm	T205-0404	T202-0404	Brake/Fan Manifold Port TD to Tee Hydraulic Tank Drain	1
2	1/4" Black	8130mm	T202-0404	T202-0404	Rear Hydraulic Manifold to Load Sense Manifold LS2	1
3	1/4" Black	935mm	T205-0404	T202-0404	Rear Brake Crossover Hose	1
4	1/4" Black	960mm	T205-0404	T202-0404	Park Brake Crossover Hose	1
5	1/4" Black	2800mm	T205-0404	T202-0404	Rear Axle Rear Brake to Chassis Bulkhead fitting	1
6	1/4" Black	2825mm	T205-0404	T202-0404	Rear Axle Park Brake to Chassis Bulkhead fitting	1
7	1/4" Black	2600mm	T205-0404	T202-0404	Brake Pedal Valve Port BR1 to TEE on Front Axle	1
8	1/4" Black	600mm	T202-0404	T202-0404	Brake Pedal Valve Port SP2 to Brake Accumulator Charger Port RB	1
9	1/4" Black	700mm	T202-0404	T202-0404	Brake Pedal Valve Port T to Brake/Fan Manifold Port TB	1
10	1/4" Black	875mm	T205-0404	T202-0404	Front Brake Crossover Hose on Front Axle	1
11	1/4" Black	5240mm	T202-0404	T202-0404	Brake Pedal Valve Port BR2 to Rear Chassis Bulkhead Fitting Top Inside	1
12	1/4" Black	4625mm	T205-0404	T202-0404	Brake/Fan Manifold Port PB to Rear Chassis Bulkhead Fitting (Park Brake) Bottom Inside	1
13	1/4" Black	800mm	T205-0404	T202-0404	Priority Valve Port LS to Load Sense Manifold LS3	1
14	1/4" Black	960mm	T204-0409	T202-0404	Trimble Port LS2 to Load Sense Manifold LS4	1
15	1/4" Black	2100mm	T202-0404	T202-0404	Hydraulic Piston Pump Load Sense to Load Sense Manifold Port LS1	1
17	1/4" Black	1700mm	T204-0409	T202-0404	Steering Orbital Load Sense to Trimble Port LS1	1
18	1/4" Black	10950mm	T202-0404	T202-0404	42m Boom Bifold Cylinders	4
18A	1/4" Black	9470mm	T202-0404	T202-0404	36m Boom Bifold Cylinders	4
19	1/4" Black	400mm	T205-0404	T202-0404	Bifold Cylinder Rod End to Check Valve	2
53	1/4" Black	570mm	T226-0404	T202-0404	Fan Motor Relief to TEE on Oil Tank Drain Bulkhead	1

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Hydraulics - Hose List

HOSE NO.	HOSE SIZE	LENGTH	END FITTING 1	END FITTING 2	DESCRIPTION	QTY.
55	1/4" Black	1240mm	T205-0404	T202-0404	Boom Rest / Fill Pump Manifold Port A2 to Boom Rest Cylinder Base End	1
56	1/4" Black	1475mm	T205-0404	T202-0404	Boom Rest / Fill Pump Manifold Port B2 to Boom Rest Cylinder Rod End	1
57	1/4" Black	1640mm	T205-0404	T202-0404	Steering Orbital Load Sense to Load Sense Manifold Port LS4 (NO AUTO STEER)	1
58	1/4" Black	600mm	T202-0404	T202-0404	Brake Pedal Valve Port SPI to Brake Accumulator Charger Port FB	1
20	1/2" Black	480mm	T205-0808	T202-0808	Priority Valve Port CF to TEE on Steering Orbital Port P	1
21	1/2" Black	1160mm	T205-0808	T202-0808	Steering Orbital Port T to Return Manifold	1
22	1/2" Black	2000mm	T202-0808	T202-0808	Steering Orbital Port L to Steering Cylinder	1
23	1/2" Black	2140mm	T202-0808	T202-0808	Steering Orbital Port R to Steering Cylinder	1
24	1/2" Black	1200mm	T202-0808	T202-0808	Steering Orbital TEE on Port P to Pressure Relief Valve Port ? (With Trimble Auto Steer)	1
25	1/2" Black	700mm	T205-0808	T202-0808	Trimble Port T to Return Manifold	1
26	1/2" Black	1200mm	T205-0808	T202-0808	Trimble Port P to Relief Manifold Port ?	1
27	1/2" Black	1480mm	T205-0808	T202-0808	Steering Orbital Port R to Trimble Port B	1
28	1/2" Black	1520mm	T205-0808	T202-0808	Steering Orbital Port L to Trimble Port A	1
29	1/2" Black	500mm	T205-0808	T202-0808	Priority Valve Tee Port EF to Boom Rest / Fill Pump Manifold Port PI	1
30	1/2" Black	1050mm	T205-0808	T202-0808	Priority Valve and Hydraulic Pressure Relief Manifold Port T to Return Manifold	1
31	1/2" Black	440mm	T205-0808	T202-0808	Boom Rest / Fill Pump Manifold Port T to Return Manifold	1
32	1/2" Black	1260mm	T205-0808	T202-0808	Hydraulic Piston Pump Case Drain TEE to Oil Tank Drain TEE	1

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Hydraulics - Hose List

HOSE NO.	HOSE SIZE	LENGTH	END FITTING 1	END FITTING 2	DESCRIPTION	QTY.
33	1/2" Black	7820mm	T202-808	T202-0808	Priority Valve Port EF TEE to Rear Hydraulic Manifold Port P	1
34	1/2" Black	3150mm	T227-0808	T202-0808	Boom Lockout Manifold Port P to Rear Hydraulic Manifold Port LI	1
35	1/2" Black	1410mm	T205-0808	T202-0808	Boom Rest / Fill Pump Manifold Port A3 to Fill Pump Port A	1
36	1/2" Black	1270mm	T205-0808	T202-0808	Boom Rest / Fill Pump Manifold Port B3 to Fill Pump Port B	1
37	1/2" Black	1600mm	T202-0808	T202-0808	Boom Lockout Manifold to Paralift Cylinder	2
38	1/2" Black	2680mm	T226-0808	T202-0808	22 cc Gear Pump Pressure to Brake/Fan Manifold Port P	1
39	1/2" Black	2850mm	T205-0808	T202-0808	Brake/Fan Manifold Port FP to Fan Motor Pressure	1
40	1/2" Black	2750mm	T205-0808	T202-0808	Brake/Fan Manifold Port FR to Fan Motor Return	1
42	1/2" Black	2760mm	T205-0808	T205-0808	Pump Speed control Port REG to 80cc Hydraulic spray pump motor	1
51	1/2" Black	555mm	T205-0808	T202-0808	Hydraulic, Hose, Assembly, Sump Drain, Engine	1
52	1/2" Black	2050mm	T227-0808	T202-0808	Hydraulic Oil Tank Drain	1
41	3/4" Black	560mm	T205-1212	T202-1212	Brake/Fan Manifold Port RM to Return Manifold	1
43	3/4" Black	3200mm	T205-1212	T202-1212	Pump Speed Control Manifold Port T TEE to Return Filter	1
44	3/4" Black	930mm	T717-1216	T202-1212	Hydraulic Piston Pump to Priority Valve Pressure	1
45	3/4" Black	7570mm	T202-1212	T202-1212	Rear Hydraulic Manifold Port T to Return Manifold	1
59	3/4" Black	2670mm	T205-1212	T202-1212	Pump Speed Control Manifold Port T TEE to 80cc Hydraulic spray pump motor	1
60	3/4" Black	2960mm	T226-1212	T202-1212	32 cc Gear Pump Pressure to Pump Speed Control Manifold Port P	1
46	1" Black	2180mm	T202-1616	T227-1616	Transmission To Combi Cooler LH	1
47	1" Black	2000mm	T202-1616	T227-1616	Transmission To Combi Cooler RH	1

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Hydraulics - Hose List

HOSE NO.	HOSE SIZE	LENGTH	END FITTING 1	END FITTING 2	DESCRIPTION	QTY.
48	1" Black	2540mm	T202-1616	T227-1616	Hydraulic Oil Cooler to Return Filter	1
50	1" Black	710mm	T205-1616	T202-1616	Return Manifold to Hydraulic Oil Cooler	1
61	1" Black	565mm	T205-1616	T205-1616	22cc Gear Pump suction to Oil tank front Port	1
62	1" Black	575mm	T205-1616	T205-1616	32cc Gear Pump suction to Oil tank Middle Port	1
54	2" Black	800mm	2" BSPP 90	2" Code 61 90	Pump Suction Hose	1
64	1/4" Black	300mm	T202-0404	T202-0404	Double Pilot Check Valve Link Hose	2
65	1/4" Black	705mm	T205-0404	T202-0404	Spool Port A to Double Pilot Check Valve Port V1	1
66	1/4" Black	735mm	T205-0404	T202-0404	Spool Port B to Double Pilot Check Valve Port V2	1
67	1/4" Black	330mm	T205-0404	T205-0404	Double Pilot Check Valve Port C2 to Main Fold Flow Divider Port 3	1
68	1/4" Black	2040mm	T205-0404	T202-0404	Double Pilot Check Valve Port C1 to LH Inside Cylinder Base End	1
69	1/4" Black	2225mm	T205-0404	T202-0404	Double Pilot Check Valve Port C1 to RH Inside Cylinder Base End	1
70	1/4" Black	2960mm	T205-0404	T202-0404	Double Pilot Check Valve Port C2 to LH Inside Cylinder Rod End	1
71	1/4" Black	2640mm	T205-0404	T202-0404	Double Pilot Check Valve Port C2 to RH Inside Cylinder Rod End	1
72	1/4" Black	3525mm	T205-0404	T202-0404	Double Pilot Check Valve Port C1 to RH Outside Cylinder Rod End	1
73	1/4" Black	3345mm	T205-0404	T202-0404	Double Pilot Check Valve Port C1 to LH Outside Cylinder Rod End	1
74	1/4" Black	2880mm	T202-0404	T202-0404	Main Fold Flow Divider Port 4 to LH Outside Cylinder Base End	1
75	1/4" Black	2925mm	T202-0404	T202-0404	Main Fold Flow Divider Port 2 to RH Outside Cylinder Base End	1
44	1/4" Black	3425mm	T205-0404	T202-0404	Spool Block A, Right Fold Cylinder Rod End	1
45	1/4" Black	3725mm	T205-0404	T202-0404	Spool Block A, Left Fold Cylinder Rod End	1

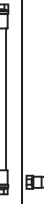
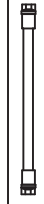
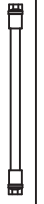
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Hydraulics - Hose List

HOSE NO.	HOSE SIZE	LENGTH	END FITTING 1	END FITTING 2	DESCRIPTION	QTY.
46	1/4" Black	2870mm	T202-0404	T202-0404	Flow Divider 2, Right Fold Cylinder Base End	1
167	1/4" Black	2885mm	T202-0404	T202-0404	Flow Divider 4, Left Fold Cylinder Base End	1
168	1/4" Black	440mm	T202-0404	T202-0404	Spool Block B , Flow Divider 3, Fold Cylinder	1
76	1/4" Black	720mm	T205-0404	T202-0404	Spool Port B to Tee for Bifold	1
77	1/4" Black	470mm	T227-0404	T202-0404	Spool Port A to Bifold Flow Divider Port 3	1
78	3/8" Black	1480mm	T207-0609	T204-0609	Spool Port A to LH Tilt Cylinder Rod End	1
79	3/8" Black	1140mm	T204-0609	T204-0609	Spool Port B to LH Tilt Cylinder Base End	1
80	3/8" Black	1400mm	T207-0609	T204-0609	Spool Port A to RH Tilt Cylinder Rod End	1
81	3/8" Black	1030mm	T204-0609	T204-0609	Spool Port B to RH Tilt Cylinder Base End	1
82	1/4" Black	1500mm	T227-0404	T202-0404	Pressure Reducing Valve to Yaw Ball Valve Assembly	1
83	1/4" Black	555mm	T227-0404	T202-0404	Yaw Ball Valve Assembly to LH Yaw Cylinder Rod End	1
84	1/4" Black	785mm	T227-0404	T202-0404	Yaw Ball Valve Assembly to LH Yaw Cylinder Base End	1
85	1/4" Black	1680mm	T205-0404	T202-0404	Yaw Cylinder Crossover LH Base to RH Rod	1
86	1/4" Black	1680mm	T205-0404	T202-0404	Yaw Cylinder Crossover LH Rod to RH Base	1
87	1/2" Black	1140mm	T205-0808	T202-0808	Yaw Cylinder to LH Accumulator	1
88	1/2" Black	560mm	T205-0808	T202-0808	Yaw Cylinder to RH Accumulator	1
89	1/2" Black	830mm	T205-0808	T202-0808	Pressure from Spool Block Tee to Yaw Pressure Reducing Valve STD	1
89a	1/2" Black	780mm	T205-0808	T202-0808	Pressure from Spool Block Tee to Yaw Pressure Reducing Valve Norac	1
90	1/2" Black	720mm	T205-0808	T202-0808	Yaw Pressure Reducing Valve to Tee on Spool Block Tank Line	1
92	1/4" Black	1170mm	T205-0404	T202-0404	Spool block A cylinder centre port	1
93	1/4" Black	1250mm	T202-0404	T202-0404	Spool block B cylinder rod end	1
94	1/4" Black	225mm	T205-0404	T202-0404	Hose link	1

The diagram is a detailed hydraulic schematic for a 2 station assembly. It features a central 'NORAC BLOCK' with ports A, B, and T. To the left, a 'Valve block, expansion assembly, DT 4 bolt, Norac' (GA3500139) is connected to the main system. To the right, an 'ACTIVE WING ROLL' section is shown. The main hydraulic circuit includes several cylinders: 'TILT LEFT CYLINDER', 'TILT RIGHT CYLINDER', 'WING ROLL CYLINDER (WRC)', and 'LOCK CYLINDER'. The circuit is controlled by a series of valves, including 'S8-2', 'S26', and 'S10-2'. The diagram also shows various hydraulic components like pumps, filters, and hoses, with labels for their specifications and dimensions. The overall layout is organized into sections, with the main hydraulic circuit on the left and the control and expansion sections on the right.

Norac - Active Wing Roll - Hose List

NORAC	HOSE SIZE	HOSE LENGTH	DESCRIPTION	ORIENTATION	QTY	Hose P/No.	TIE
150	1/2" HOSE	370mm	Pressure to Norac block		1	GA3500445.	IR
151	1/2" HOSE	1010mm	Tank to Norac block		1	GA3500446	2R
152	3/8" HOSE	1480mm	Tilt cylinder LH rod end		1	GA3500447	1Y
153	3/8" HOSE	1140mm	Tilt cylinder LH base end		1	GA3500448.	2Y
154	3/8" HOSE	1400mm	Tilt cylinder RH rod end		1	GA3500449	1B
155	3/8" HOSE	1030mm	Tilt cylinder RH base end		1	GA3500450	2B
156	3/8" HOSE	1300mm	Norac block (1B) to Spool Block LH A		1	GA3500451	1B+1R
157	3/8" HOSE	1350mm	Norac block (1A) to Spool Block LH B		1	GA3500452	1B+2R
158	3/8" HOSE	1420mm	Norac block (2B) to Spool Block RH A		1	GA3500453	1Y+1R
159	3/8" HOSE	1455mm	Norac block (2A) to Spool Block RH B		1	GA3500454	1Y+2R
160	3/8" HOSE	280mm	Tilt cylinder base link		1	GA3500455	1B+2R
161	3/8" HOSE	1330mm	Norac block (3B) to top of WRC 2		1	GA3500456	1Y+1B
162	3/8" HOSE	1370mm	Norac block (3A) to top of WRC 1		1	GA3500457	1Y+2B
163	3/8" HOSE	800mm	Left end WRC to Left A		1	GA3500458	2Y+1B
164	3/8" HOSE	855mm	Right end WRC to Right A		1	GA3500594	2Y+2B
165	1/4" HOSE	1110mm	Rear Hydraulic Manifold to Norac Load Sense Manifold		1	GA3500460	

GA3500164

Valve block, 2 station assembly, Closed centre, Load sense, DT 4 Bolt, Norac

NORAC BLOCK

TILT LEFT CYLINDER

TILT RIGHT CYLINDER

LOCK CYLINDER

BI FOLD

TILT LEFT

TILT RIGHT

FOLD

BOOM LIFT

150 Ø1/2"

Ø1/2"

151

LS

156 Ø3/8"

157 Ø3/8"

158 Ø3/8"

159 Ø3/8"

155 Ø3/8"

154 Ø3/8"

153 Ø3/8"

152 Ø3/8"

151 Ø3/8"

150 Ø3/8"

165 Ø1/4"

166 Ø1/4"

167 Ø1/4"

168 Ø1/4"

169 Ø1/4"

170 Ø1/4"

171 Ø1/4"

172 Ø1/4"

173 Ø1/4"

174 Ø1/4"

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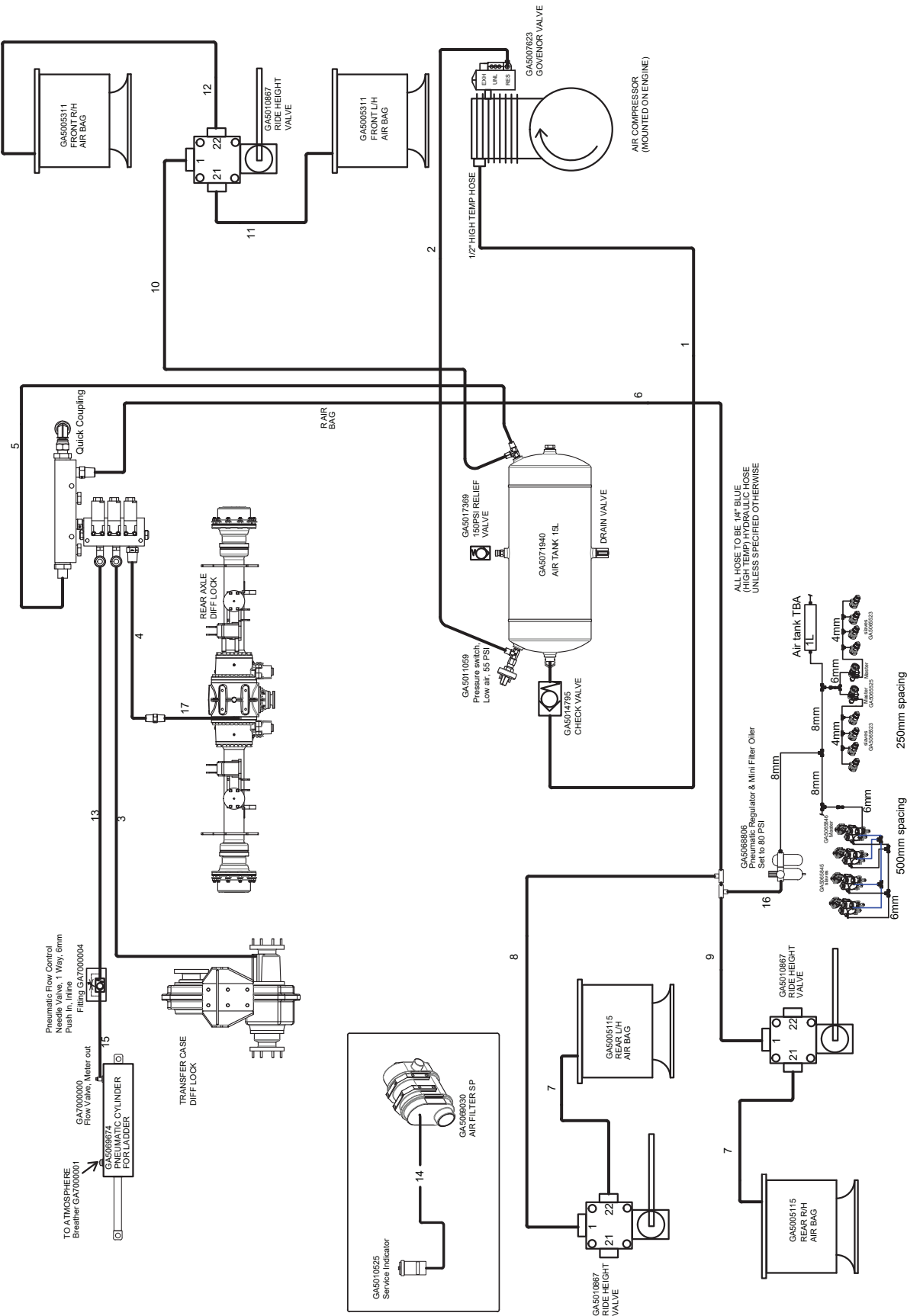
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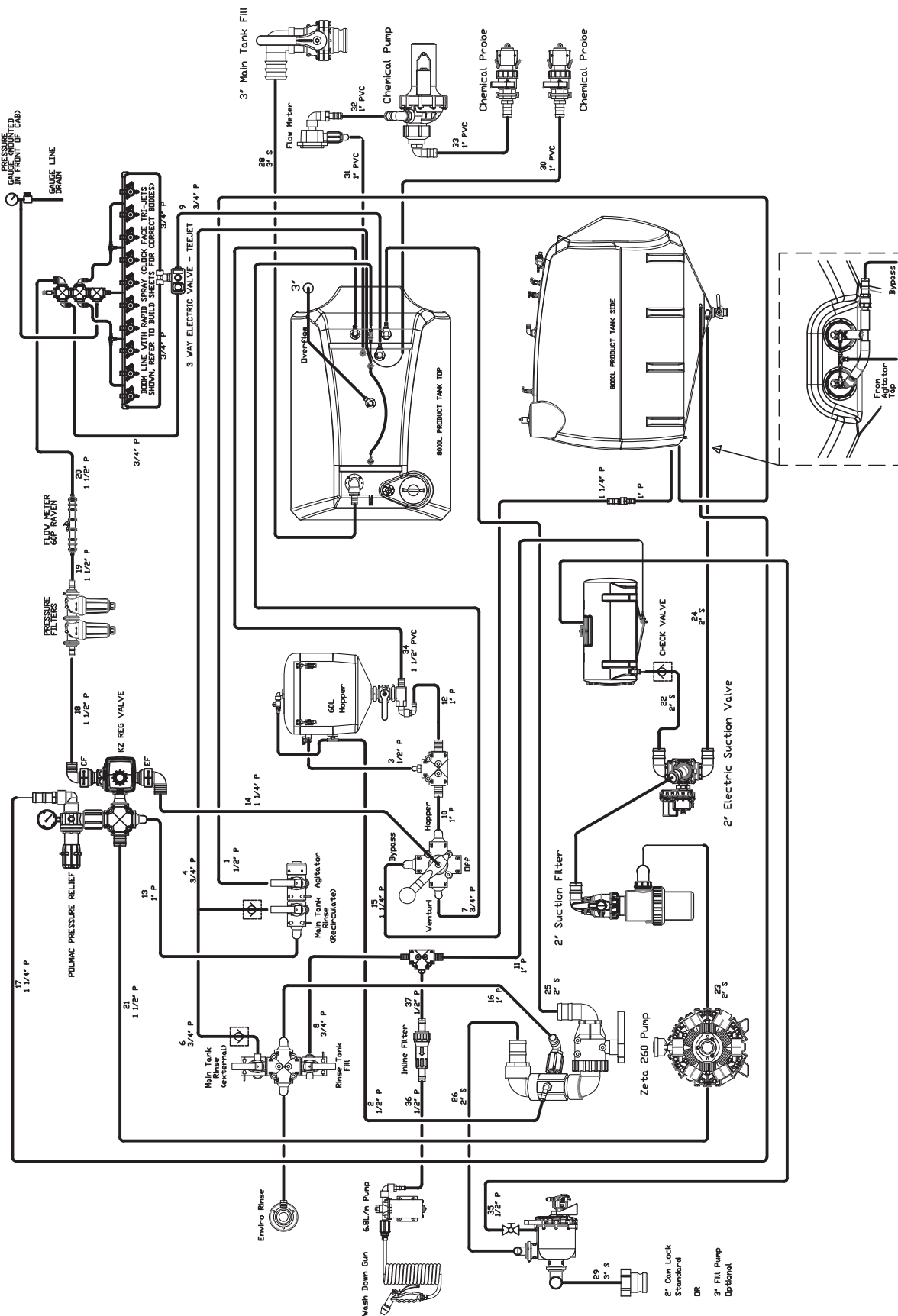
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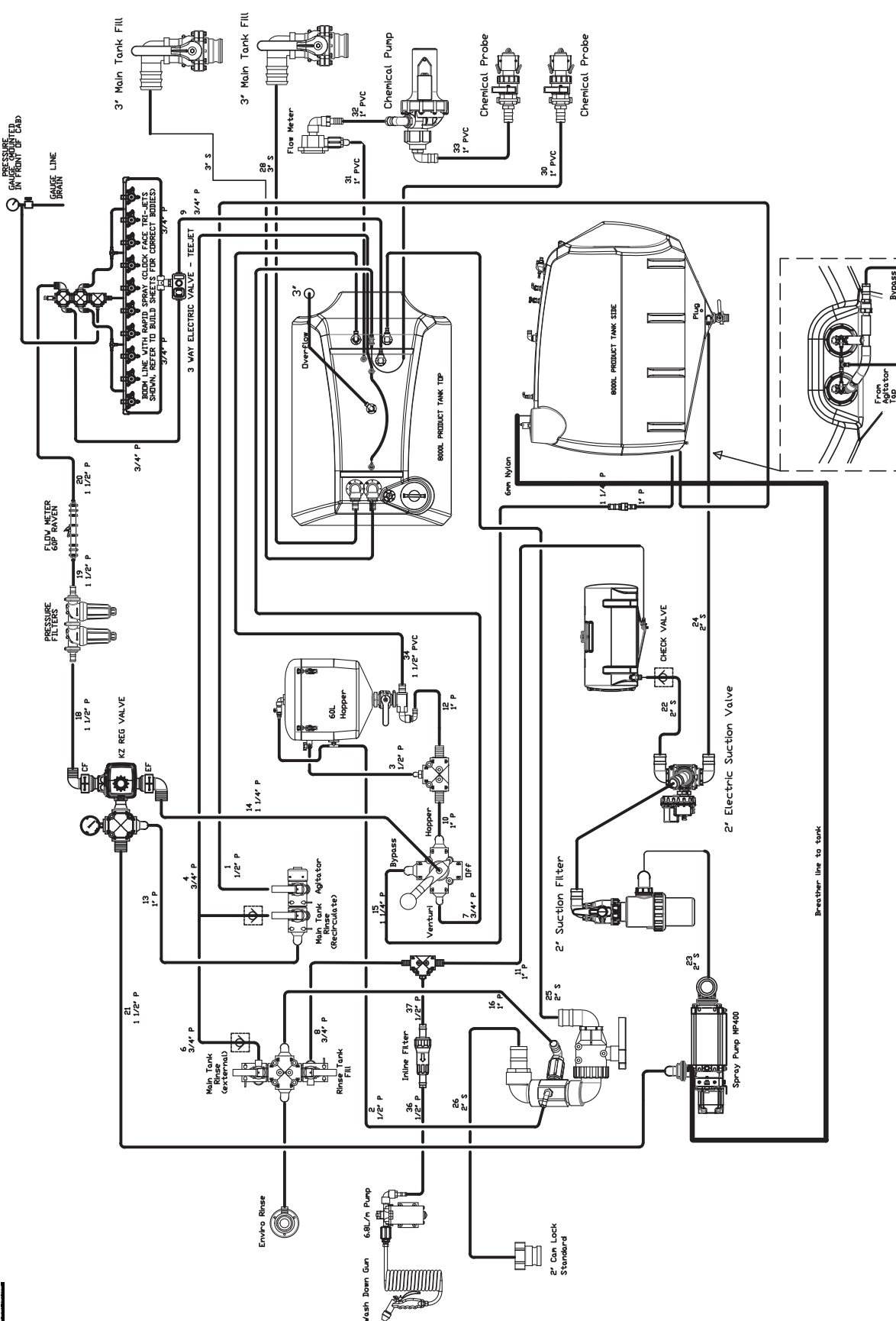
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Norac - Passive Wing Roll - Hose List

NORAC	HOSE SIZE	HOSE LENGTH	DESCRIPTION	ORIENTATION	QTY	Hose P/No.	TIE
150	1/2" HOSE	370mm	Pressure to Norac block		1	GA3500445.	1R
151	1/2" HOSE	1010mm	Tank to Norac block		1	GA3500446	2R
152	3/8" HOSE	1480mm	Tilt cylinder LH rod end		1	GA3500447	1Y
153	3/8" HOSE	1140mm	Tilt cylinder LH base end		1	GA3500448.	2Y
154	3/8" HOSE	1400mm	Tilt cylinder RH rod end		1	GA3500449	1B
155	3/8" HOSE	1030mm	Tilt cylinder RH base end		1	GA3500450	2B
156	3/8" HOSE	1300mm	Norac block (1B) to Spool Block LH A		1	GA3500451	1B+1R
157	3/8" HOSE	1350mm	Norac block (1A) to Spool Block LH B		1	GA3500452	1B+2R
158	3/8" HOSE	1420mm	Norac block (2B) to Spool Block RH A		1	GA3500453	1Y+1R
159	3/8" HOSE	1455mm	Norac block (2A) to Spool Block RH B		1	GA3500454	1Y+2R
165	1/4" HOSE	1110mm	Rear Hydraulic Manifold to Norac Load Sense Manifold		1	GA3500460	







Plumbing - Hose List

HOSE NO.	HOSE SIZE	DESCRIPTION	LENGTH(mm)
1	1/2" Pressure	Manifold to Agitator	1500
2	1/2" Pressure	Hopper Rinse	5500
3	1/2" Pressure	Tee to Hopper	6000
4	3/4" Pressure	Manifold to Rinse Nozzles	7000
5	3/4" Pressure	Between Rinse Nozzles	1900
6	3/4" Pressure	Between Tank Rinse Check Valves	130
7	3/4" Pressure	Rotary Manifold to Venturi	6500
8	3/4" Pressure	Fresh Water Fill to Altek Cross	120
9	3/4" Pressure	Boom Recirc Valve To Tank	7300
10	1" Pressure	Rotary Valve to Hopper Tee	120
11	1" Pressure	Altek Cross to Rinse Tank	3000
12	1" Pressure	Hopper to Pod	4800
13	1" Pressure	Regulator Cross to Small Manifold	3200
14	1 1/4" Pressure	EF Port to Back of Rotary Valve	3100
15	1 1/4" Pressure	Rotary Valve to Agitator	1500
16	1" Pressure	Fill Manifold to Fill Tee	300
17	1 1/4" Pressure	Relief Valve to Tank	1000
18	1 1/2" Pressure	Regulator Valve CF to Filters	890
19	1 1/2" Pressure	Filters to Flow Meter	5200
20	1 1/2" Pressure	Flow Meter to Boom	950
21	1 1/2" Pressure	Pump Delivery	780
22	2" Suction	Rinse Tank to 3 Way Valve	3000
23	2' Suction	Pump to Suction Filter	510
24	2' Suction	Main Tank to 3 Way Valve	1400
25	2' Suction	Main Fill	6300
26-1	2' Suction	Cam Lock Fill to 2 Way Valve ASM	0
26-2	2' Suction	Fill Pump to 2 Way Valve ASM	700
27	3' PVC	Tank Overflow	4000
28-1	3' Suction	3" Direct Fill - Front	0
28-1	3' Suction	3" Direct Fill - Side	3500
29	3" Suction	Fill Pump Suction	580
30	1" PVC	Venturi to Chem Probe	7300
31	1" PVC	Chemical Flow Meter to Tank	7000
32	1" PVC	Chem Pump to Flow Meter	0
33	1" PVC	Chem Pump to Chem Probe	0
34	1 1/2" PVC	Hopper to Tank	6000
35	1/2" Pressure	Fill Pump Prime	-
36	1/2" Pressure	Tee to Inline Filter For Wash Down Gun	-
37	1/2" Pressure	Filter to Wash Down Gun Pump	-