

Service Bulletin

Maintenance of Way Equipment

Date: 6.24.2026**RRP Service Bulletin No:** RRP SB402**Title:** Update hydraulic schematics & hydraulic reservoir placard to show correct hydraulic suppressor psi.**Rating:****ALERT**

(Potential Problem)

**INFORMATION**

(Action Is Optional)

**DIRECTIVE**

(Action Is Required)

**PRODUCT IMPROVEMENT**

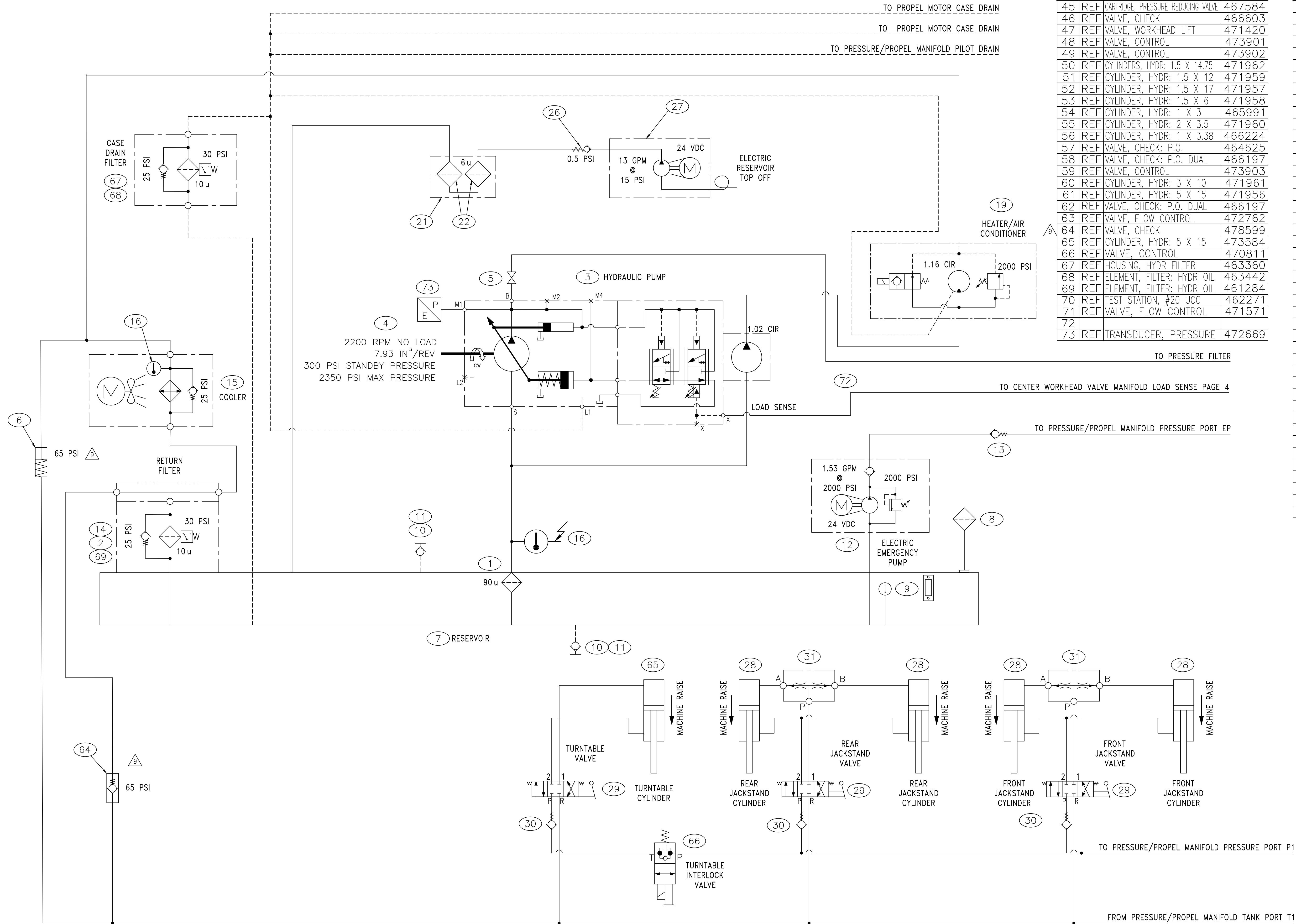
(Enhance Product)

Product Series: Advanced Tie Plate Inserter [ATPI]**Serial No:** 932587

APTI-045	932587	BNSF	X3800196
APTI-046	932587	BNSF	X3800197
APTI-047	932587	BNSF	X3800198
APTI-048	932587	BNSF	X3800199
APTI-049	932587	BNSF	X3800200
APTI-050	932587	BNSF	X3800195

ATPI-063	932587	BNSF	X3800205
ATPI-064	932587	BNSF	X3800206
ATPI-065	932587	BNSF	X3800207
ATPI-066	932587	BNSF	X3800208
ATPI-070	932587	BNSF	X3800209
ATPI-071	932587	BNSF	X3800210

Summary: Missing pressures on the hydraulic schematic for suppressor.**Action:** Update existing 932587 parts manuals with hydraulic schematic RRP# 718958 Rev 9 & hydraulic placard RRP# 474127 Rev 4.**Completion / Resolution:** Continue with normal machine operation after replacing pages in machine parts manual and hydraulic placard on hydraulic reservoir.



NO.	QTY.	DESCRIPTION	PART NO.
45	REF	CARTRIDGE, PRESSURE REDUCING VALVE	467584
46	REF	VALVE, CHECK	466603
47	REF	VALVE, WORKHEAD LIFT	471420
48	REF	VALVE, CONTROL	473901
49	REF	VALVE, CONTROL	473902
50	REF	CYLINDERS, HYDR: 1.5 X 14.75	471962
51	REF	CYLINDER, HYDR: 1.5 X 12	471959
52	REF	CYLINDER, HYDR: 1.5 X 17	471957
53	REF	CYLINDER, HYDR: 1.5 X 6	471958
54	REF	CYLINDER, HYDR: 1 X 3	465991
55	REF	CYLINDER, HYDR: 2 X 3.5	471960
56	REF	CYLINDER, HYDR: 1 X 3.38	466224
57	REF	VALVE, CHECK: P.O.	464625
58	REF	VALVE, CHECK: P.O. DUAL	466197
59	REF	VALVE, CONTROL	473903
60	REF	CYLINDER, HYDR: 3 X 10	471961
61	REF	CYLINDER, HYDR: 5 X 15	471956
62	REF	VALVE, CHECK: P.O. DUAL	466197
63	REF	VALVE, FLOW CONTROL	472762
64	REF	VALVE, CHECK	478599
65	REF	CYLINDER, HYDR: 5 X 15	473584
66	REF	VALVE, CONTROL	470811
67	REF	HOUSING, HYDR FILTER	463360
68	REF	ELEMENT, FILTER: HYDR OIL	463442
69	REF	ELEMENT, FILTER: HYDR OIL	461284
70	REF	TEST STATION, #20 UCC	462271
71	REF	VALVE, FLOW CONTROL	471571
72			
73	REF	TRANSDUCER, PRESSURE	472669

NO.	QTY.	DESCRIPTION	PART NO.
1	REF	FILTER, HYDR OIL	462270
2	REF	SWITCH, PRESSURE	471972
3	REF	PUMP, HYDR: 7.93/1.02 CIR	474037
4	REF	ENGINE, CUMMINS QSF3.8	473979
5	REF	VALVE, BALL: #20 CODE 62	472677
6	REF	SUPPRESSOR, HYDRAULIC	472292
7	REF	RESERVOIR, OIL	78149
8	REF	BREATHER/FILTER, AIR	465053
9	REF	GAUGE, FLUID TEMP/LEVEL	473302
10	REF	DISCONNECT, MALE QUICK: #16 AOP 5602	462278
11	REF	CAP, DUST: #16 AOP QUICK DISCONNECT	462279
12	REF	PUMP, HYDR: 24 VDC	475950
13	REF	VALVE, CHECK	464658
14	REF	FILTER, HYDR OIL	471796
15	REF	COOLER	473658
16	REF	SENSOR, TEMPERATURE	472539
17	REF	PLATE, D03 TAPPING	473513
18	REF	VALVE, CONTROL	473210
19	REF	HEATER/AIR CONDITIONER	473689
20			
21	REF	HOUSING, HYDR FILTER	462267
22	REF	ELEMENT, FILTER: HYDR OIL	463625
23			
24			
25			
26	REF	VALVE, CHECK	466411
27	REF	PUMP, HYDR: 24 VDC	468183
28	REF	CYLINDER, HYDR: 2.5 X 10	472639
29	REF	VALVE, CONTROL	475969
30	REF	VALVE, CHECK	404168
31	REF	VALVE, FLOW DIVIDER	473489
32	REF	FILTER, HYDR OIL	471753
33	REF	VALVE, CONTROL	462489
34	REF	SCR, SOC: .5-13 X 2.5	403979
35	REF	MANIFOLD, PRESSURE/PROPEL	473656
36	REF	CARTRIDGE, CHECK VALVE	471700
37	REF	CARTRIDGE, RELIEF VALVE	471702
38	REF	CARTRIDGE, RELIEF VALVE	471648
39	REF	DISCONNECT, MALE QUICK: M16 STAUFF	470384
40	REF	MOTOR, HYDR: 11.9 CIR	464725
41	REF	CYLINDER, HYDR: 2.5 X 16	473277
42	REF	CARTRIDGE, FLOW DIVIDER VALVE	467585
43	REF	CARTRIDGE, FLOW CONTROL VALVE	467583
44	REF	CARTRIDGE, CONTROL VALVE	466600

02138	9	CHG 0 TO 65 PSI, ADD 478599	6-26	MSO
01116	8	ADD 472292, SWAPED DESC	12-24	MSO
00823	7	SEE EN FOR DETAILS	7-24	LHM
6203	6	SEE EN FOR DETAILS	5-22	PR
5772	5	SEE EN	7-21	ML
5622	4	DEL 719064	3-21	ASM
4674	3	REROUTE HVAC FROM CASE	12-19	PR

EN	REV	CHANGE	DESCRIPTION	DATE	DRN
DIMENSION TOLERANCES—UNLESS OTHERWISE SPECIFIED					
LINEAR		.XX $\pm$.03	.XXX $\pm$.010		
ANGULAR		X' $\pm$ 1°	X.X' $\pm$.5°		
SURFACE FINISH			125/	SMOOTH ALL SHARP EDGES NOT TO EXCEED CLEAN ALL WELDS	

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RACINE RAILROAD PRODUCTS
Racine, Wisconsin USA

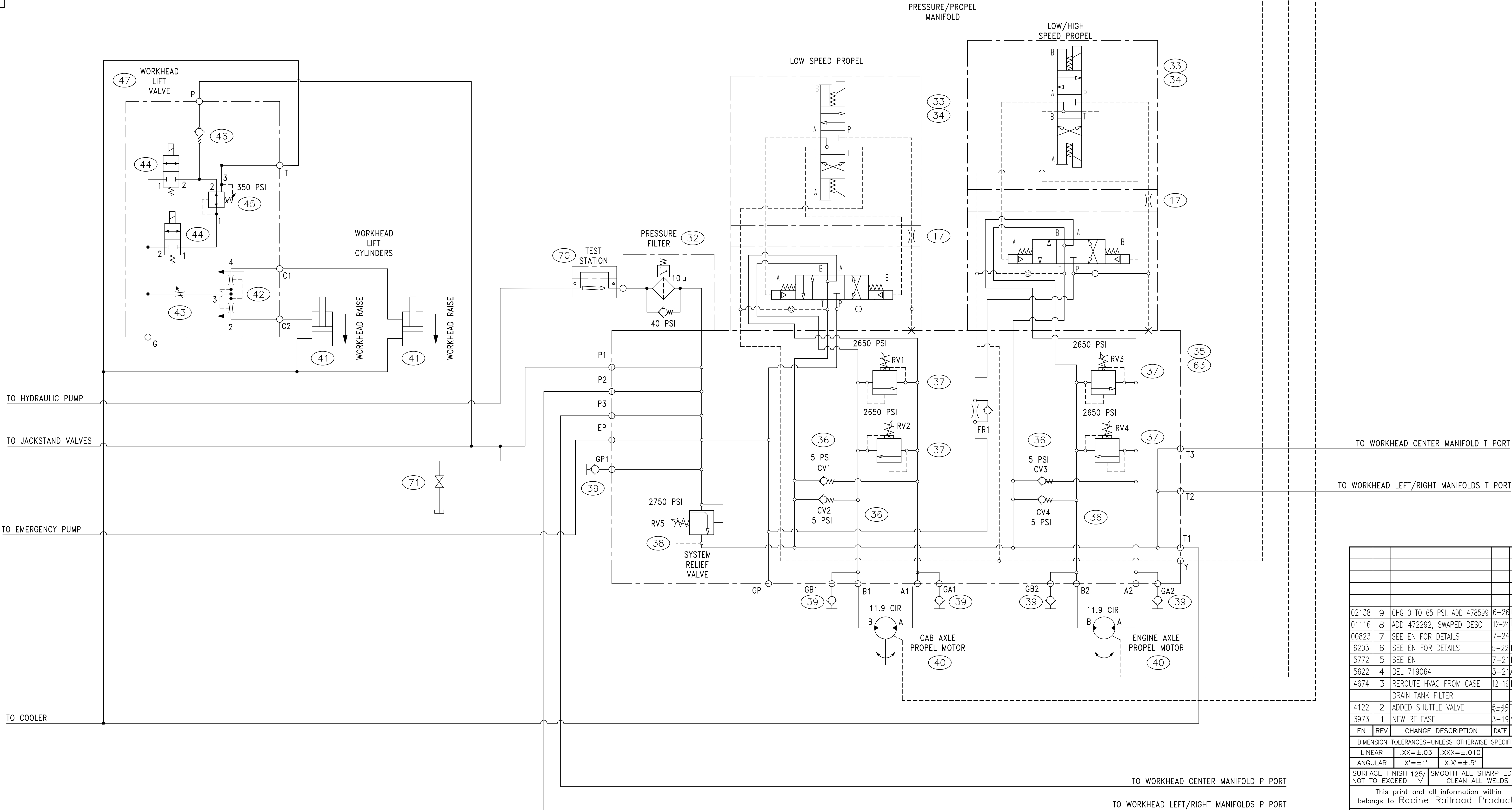
DESCRIPTION	SCHEMATIC, HYDRAULIC
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MATERIAL				REFERENCE			
USED ON			930587		SCALE	DATE	
					1:1	2-12-19	
DRN	CHK	APP	JOB NO			SHEET	
MSO			RD150003			1 of 4	
EXP NO			DWG NO				
			71 8958				

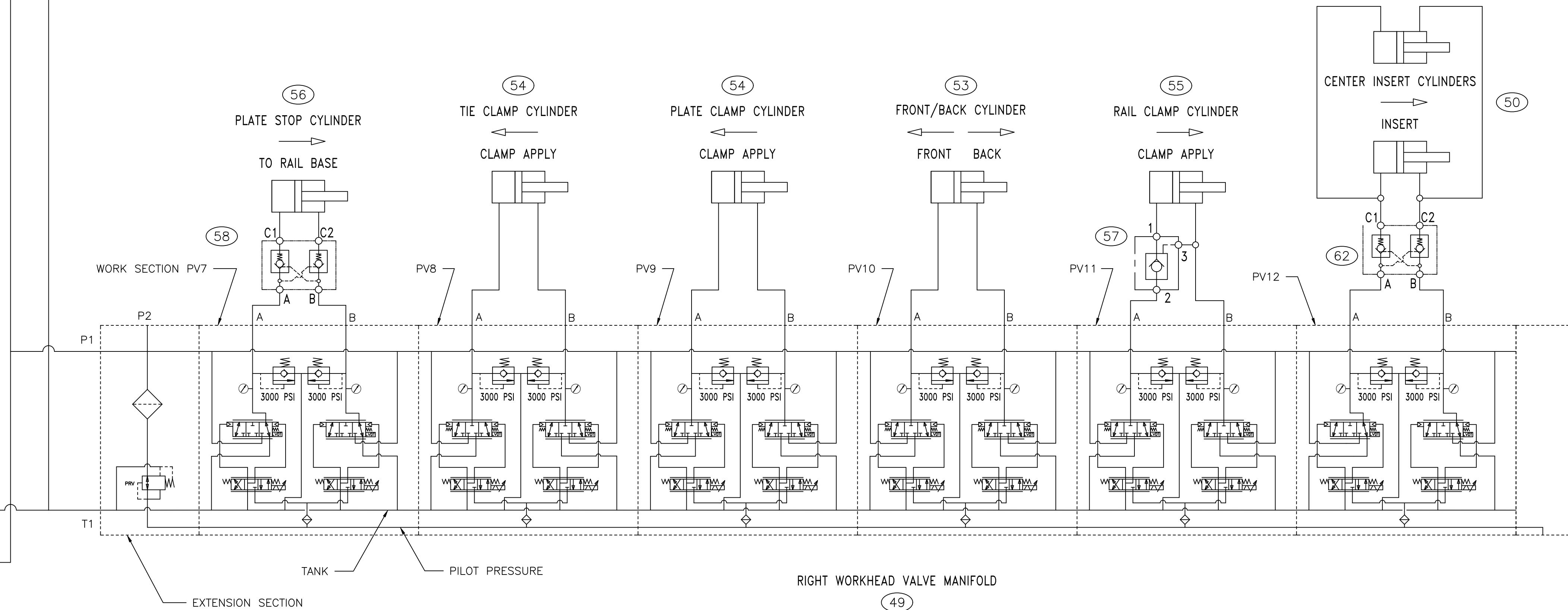
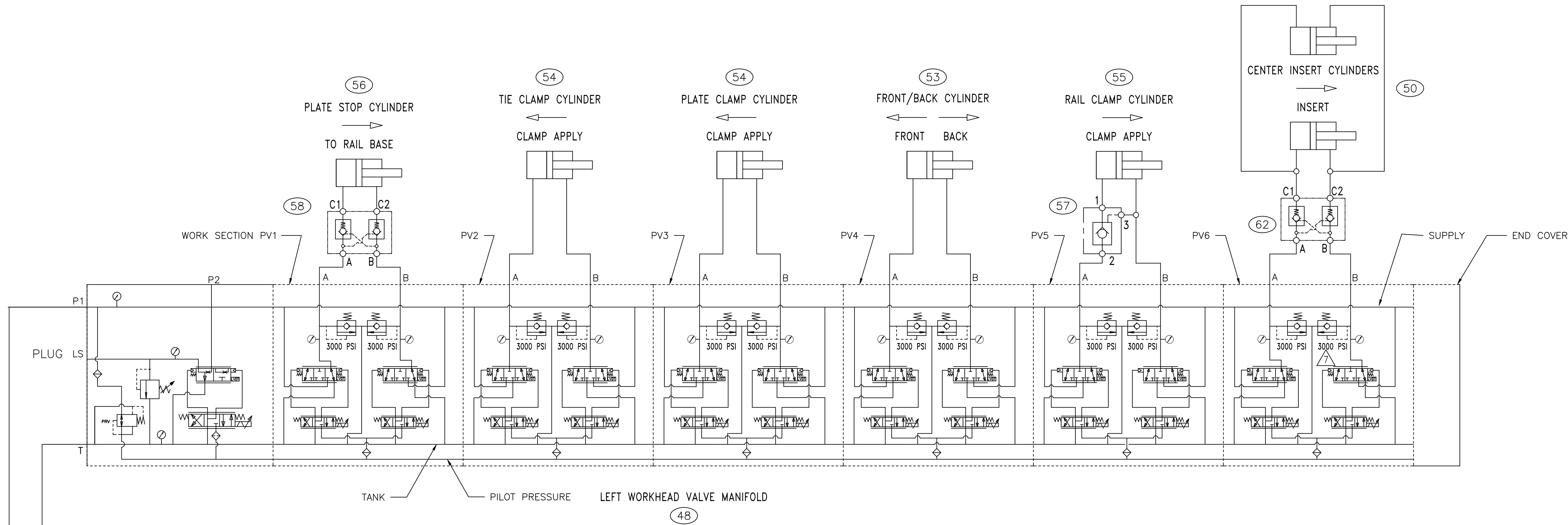
TO CASE DRAIN MANIFOLD

TO CASE DRAIN MANIFOLD

TO CASE DRAIN MANIFOLD



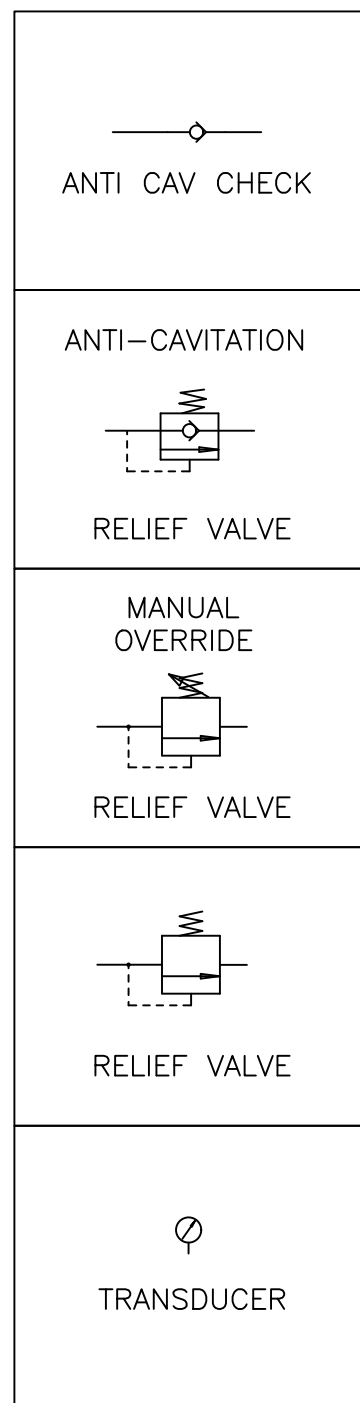
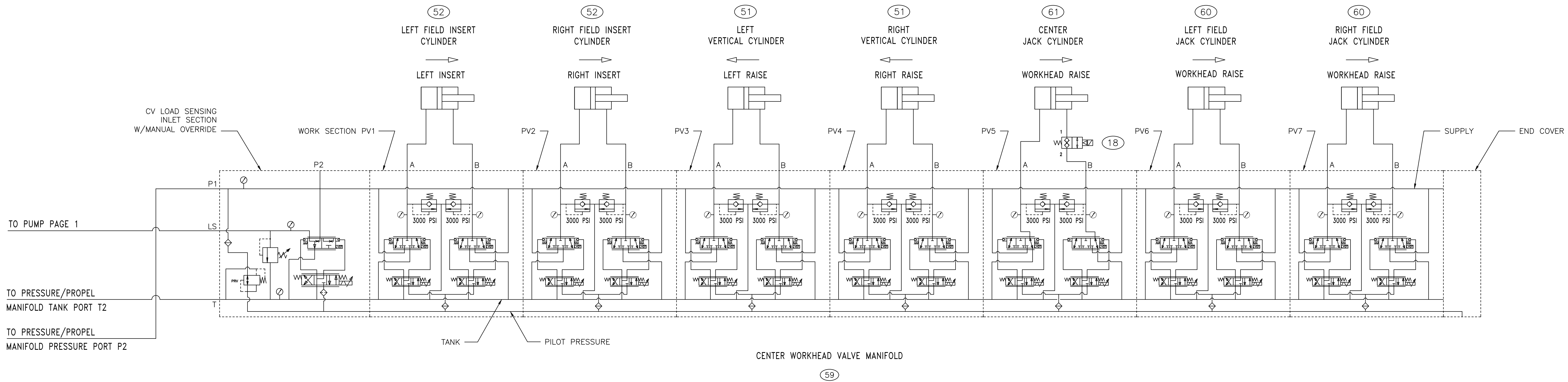
02138	9	CHG 0 TO 65 PSI, ADD 478599	6-26	MSO				
01116	8	ADD 472292, SWAPED DESC	12-24	MSO				
00823	7	SEE EN FOR DETAILS	7-24	LHM				
6203	6	SEE EN FOR DETAILS	5-22	PR				
5772	5	SEE EN	7-21	ML				
5622	4	DEL 719064	3-21	ASM				
4674	3	REROUTE HVAC FROM CASE	12-19	PR				
		DRAIN TANK FILTER						
4122	2	ADDED SHUTTLE VALVE	5-19	TDM				
3973	1	NEW RELEASE	3-19	MSO				
EN	REV	CHANGE DESCRIPTION	DATE	DRN				
DIMENSION TOLERANCES--UNLESS OTHERWISE SPECIFIED								
LINEAR	.XX=±.03	.XXX=±.010						
ANGULAR	X°=±1°	X.X°=±.5°						
SURFACE FINISH 125/			SMOOTH ALL SHARP EDGES NOT TO EXCEED ✓ CLEAN ALL WELDS					
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RACINE RAILROAD PRODUCTS Racine, Wisconsin USA								
DESCRIPTION								
SCHEMATIC, HYDRAULIC								
MATERIAL								
REFERENCE								
USED ON		930587	SCALE	DATE				
			1:1	2-12-19				
DRN	CHK	APP	JOB NO	SHEET				
MSO			RD150003	2 of 4				
EXP NO			DWG NO					
			718958					



TO PRESSURE/PROPEL
TANK PORT T3

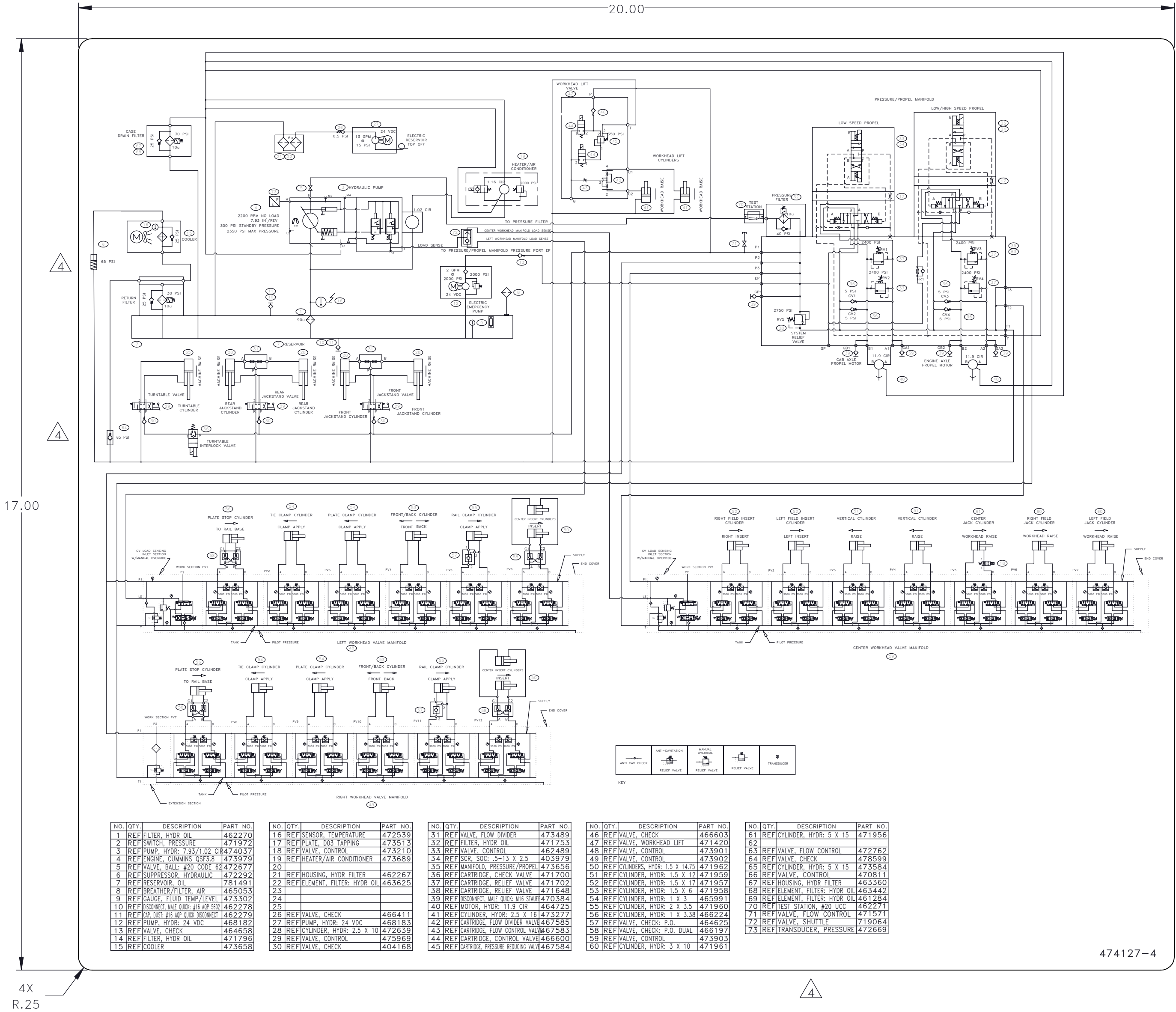
TO PRESSURE/PROPEL
MANIFOLD PRESSURE PORT P3

02138	9	CHG 0 TO 65 PSI, ADD 478599	6-26	MSO	
01116	8	ADD 472292, SWAPED DESC	12-24	MSO	
00823	7	SEE EN FOR DETAILS	7-24	LHM	
6203	6	SEE EN FOR DETAILS	5-22	PR	
5772	5	SEE EN	7-21	ML	
5622	4	DEL 719064	3-21	ASM	
4674	3	REROUTE HVAC FROM CASE	12-19	PR	
		DRAIN TANK FILTER			
4122	2	ADDED SHUTTLE VALVE	5-19	TDM	
3973	1	NEW RELEASE	3-19	MSO	
EN	REV	CHANGE DESCRIPTION	DATE	DRN	
DIMENSION TOLERANCES-UNLESS OTHERWISE SPECIFIED					
LINEAR	.XX=±.03	.XXX=±.010			
ANGULAR	X°=±1°	X.X°=±.5°			
SURFACE FINISH 125/ SMOOTH ALL SHARP EDGES NOT TO EXCEED ✓ CLEAN ALL WELDS					
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RACINE RAILROAD PRODUCTS Racine, Wisconsin USA					
DESCRIPTION					
SCHEMATIC, HYDRAULIC					
MATERIAL					
REFERENCE					
USED ON	930587	SCALE	DATE		
		1:1	2-12-19		
DRN	MSO	CHK	APP	JOB NO	SHEET
EXP NO				RD150003	3 of 4
				DWG NO	718958



02138	9	CHG 0 TO 65 PSI, ADD 478599	6-26	MSO					
01116	8	ADD 472292, SWAPED DESC	12-24	MSO					
00823	7	SEE EN FOR DETAILS	7-24	LHM					
6203	6	SEE EN FOR DETAILS	5-22	PR					
5772	5	SEE EN	7-21	ML					
5622	4	DEL 719064	3-21	ASM					
4674	3	REROUTE HVAC FROM CASE	12-19	PR					
		DRAIN TANK FILTER							
4122	2	ADDED SHUTTLE VALVE	6-19	TDM					
3973	1	NEW RELEASE	3-19	MSO					
EN	REV	CHANGE DESCRIPTION	DATE	DRN					
DIMENSION TOLERANCES-UNLESS OTHERWISE SPECIFIED									
LINEAR		.XX $\pm$.03	.XXX $\pm$.010						
ANGULAR		X' $\pm$ 1°	X.X' $\pm$.5°						
SURFACE FINISH 125/√			SMOOTH ALL SHARP EDGES						
NOT TO EXCEED			CLEAN ALL WELDS						
This print and all information within belongs to Racine Railroad Products									
RACINE RAILROAD PRODUCTS									
Racine, Wisconsin USA									
DESCRIPTION									
SCHEMATIC, HYDRAULIC									
MATERIAL									
REFERENCE									
USED ON					SCALE		DATE		
930587					1:1		2-12-19		
DRN	CHK	APP	JOB NO			SHEET			
MSO			RD150003			4 of 4			
EXP NO					DWG NO				
					718958				

NO.	QTY	RAW MATERIAL DESCRIPTION	PART NO.
1	AR	DECAL MATERIAL, .010 POLYCARBONATE W/ PSA	020045



NO.	QTY.	DESCRIPTION	PART NO.
1	REF	FILTER, HYDR OIL	462270
2	REF	SWITCH, PRESSURE	471972
3	REF	PUMP, HYDR: 7.53/1.02 CIR	474037
4	REF	ENGINE, CUMMINS QS3.8	473979
5	REF	VALVE, BALL: #20 CODE 624	472677
6	REF	SUPPRESSOR, HYDRAULIC	472292
7	REF	RESERVOIR, OIL	781491
8	REF	BREATHER/FILTER, AIR	465053
9	REF	GAUGE, FLUID TEMP/LEVEL	473302
10	REF	DISCONNECT, MALE QUICK: #15 RAP 5002	462278
11	REF	OR JOINT: #15 RAP 5002 (DISCONNECT)	462279
12	REF	PUMP, HYDR: 24 VDC	468182
13	REF	VALVE, CHECK	464658
14	REF	FILTER, HYDR OIL	471796
15	REF	COOLER	473658

NO.	QTY.	DESCRIPTION	PART NO.
16	REF	SENSOR, TEMPERATURE	472539
17	REF	PLATE, DCS TAPPING	473513
18	REF	VALVE, CONTROL	473210
19	REF	HEATER/AIR CONDITIONER	473689
20			
21	REF	HOUSING, HYDR FILTER	462267
22	REF	ELEMENT, FILTER: HYDR OIL	463625
23			
24			
25			
26	REF	VALVE, CHECK	466411
27	REF	PUMP, HYDR: 24 VDC	468183
28	REF	CYLINDER, HYDR: 2.5 X 10	472639
29	REF	VALVE, CONTROL	475969
30	REF	VALVE, CHECK	404168

NO.	QTY.	DESCRIPTION	PART NO.
31	REF	VALVE, FLOW DIVIDER	473489
32	REF	FILTER, HYDR OIL	471753
33	REF	VALVE, CONTROL	462489
34	REF	SCR, SOC: 5-13 X 2.5	403979
35	REF	MANIFOLD, PRESSURE/PROPEL	473656
36	REF	CARTRIDGE, CHECK VALVE	471700
37	REF	CARTRIDGE, RELIEF VALVE	471702
38	REF	CARTRIDGE, RELIEF VALVE	471648
39	REF	DISCONNECT, MALE QUICK: M16 STAFF	470384
40	REF	MOTOR, HYDR: 11.9 CIR	464725
41	REF	CYLINDER, HYDR: 2.5 X 10	473277
42	REF	CARTRIDGE, FLOW DIVIDER VALVE	467585
43	REF	CARTRIDGE, FLOW DIVIDER VALVE	467583
44	REF	CARTRIDGE, CONTROL VALVE	466600
45	REF	CARTRIDGE, PRESSURE REDUCING VALVE	467584

NO.	QTY.	DESCRIPTION	PART NO.
46	REF	VALVE, CHECK	466603
47	REF	VALVE, WORKHEAD LIFT	471420
48	REF	VALVE, CONTROL	473901
49	REF	VALVE, CONTROL	473902
50	REF	CYLINDERS, HYDR: 1.5 X 14.75	471962
51	REF	CYLINDER, HYDR: 1.5 X 12	471959
52	REF	CYLINDER, HYDR: 1.5 X 17	471957
53	REF	CYLINDER, HYDR: 1.5 X 6	471958
54	REF	CYLINDER, HYDR: 1 X 3	465991
55	REF	CYLINDER, HYDR: 2 X 3.5	471960
56	REF	CYLINDER, HYDR: 1 X 3.38	466224
57	REF	VALVE, CHECK: P.O.	464625
58	REF	VALVE, CHECK: P.O. DUAL	466197
59	REF	VALVE, CONTROL	473903
60	REF	CYLINDER, HYDR: 3 X 10	471961

NO.	QTY.	DESCRIPTION	PART NO.
61	REF	CYLINDER, HYDR: 5 X 15	471956
62			
63	REF	VALVE, FLOW CONTROL	472762
64	REF	VALVE, CHECK	478599
65	REF	CYLINDER, HYDR: 5 X 15	473584
66	REF	VALVE, CONTROL	470811
67	REF	HOUSING, HYDR FILTER	463360
68	REF	ELEMENT, FILTER: HYDR OIL	463442
69	REF	ELEMENT, FILTER: HYDR OIL	461284
70	REF	TEST STATION, #20 UCC	462271
71	REF	VALVE, FLOW CONTROL	471571
72	REF	VALVE, SHUTTLE	719064
73	REF	TRANSDUCER, PRESSURE	472669

REV	EN	DESCRIPTION	DATE	DRN
1	3961	NEW RELEASE	2-19	MSO
2	00823	DRAWN IN SOLIDWORKS	8-24	LHM
3	01116	ADDED 472292	12-24	MSO
4	02138	SEE EN FOR DETAILS	6-26	MSO

DIMENSION TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR	.XX=±.03	.XXX=±.010	KERF ALLOW.
ANGULAR	X°=±1°	X.X°=±.5°	

SURFACE FINISH NOT TO EXCEED	125/✓	SMOOTH ALL SHARP EDGES CLEAN ALL WELDS
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THIS PRINT AND ALL INFORMATION WITHIN BELONGS
TO RACINE RAILROAD PRODUCTS

RACINE RAILROAD PRODUCTS
RACINE, WISCONSIN USA

DESCRIPTION

PLACARD, HYDRAULIC SCHEMATIC

MATERIAL TYPE

SEE BOM

USED ON	718967	SCALE	DATE
		1:1.5	08-29-24

DRN	WEIGHT (LBS)	JOB NO	SHEET
LHM	0.15	RD150003	1 OF 1

DWG SIZE	CATALOG	DWG NO
C	S	474127

BLACK LETTERING ON WHITE BACKGROUND

