



Illustrated Parts Manual

Model XL3300

S/N 0339301 thru 0335343,
0330639 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

P/N - 33004001

*Revised
November 5, 2013*

EFFECTIVITY PAGE

-February 25, 2005 - A - Revised Manual
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EFFECTIVITY PAGE

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SERVICE KITS

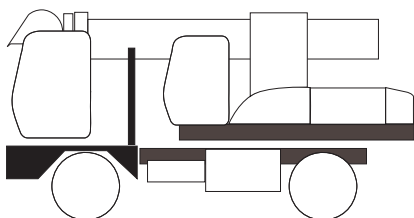
Section	Page No.	Part No.	Description
4	4-5	80304002	Engine Filter Kit
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7	7-15	80334588	Steering Control Assembly Seal Kit
9	9-3	80003621	Hoist Cylinder Packing Kit, (Before S/N 0210017815)
9	9-5	80004106	Hoist Cylinder Packing Kit, (S/N 0210017815 & After)
9	9-7	80003608	Boom Cylinder Packing Kit, (Before S/N 0330658)
9	9-9	80223073	Boom Cylinder Packing Kit, (S/N 0210018092 & After)
9	9-11	80003626	Tool Cylinder Packing Kit, (Before S/N 0210017815)
9	9-13	80004131	Tool Cylinder a Packing Kit, (S/N 0210017815 & After)
9	9-15	80003728	Outrigger Cylinder Seal Kit, (Before S/N 0210017815)
9	9-17	80004061	Outrigger Cylinder Seal Kit, (S/N 0210017815 & After)
9	9-19	80003720	Oscillation Cylinder Seal Kit, (Before S/N 0210017815)
9	9-21	80004119	Oscillation Cylinder Seal Kit, (S/N 0210017815 & After)
9	9-25	80003738	Blade Cylinder Packing Kit, (Before S/N 0210017716)
9	9-27	80004099	Blade Cylinder Packing Kit, (S/N 0210017716 & After)
9	9-29	80334038	Main Pump Seal Kit
9	9-31	80334072	Main Pump Control & Solenoid Kit
9	9-31	80334073	Angle Lever Kit
9	9-31	80334071	Main Pump Control Element Kit
9	9-42	80334157	Main Hydraulic Valve Seal Kit
9	9-42	80334198	Main Hydraulic Valve Seal Kit
9	9-42	80334199	Main Hydraulic Valve Seal Kit
9	9-42	80334435	Main Hydraulic Valve Seal Kit
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9	9-79	80324058	Tilt Motor Seal Kit
9	9-86	80334519	Drive Motor Seal Kit
9	9-89	80334404	Center Pin Seal Kit
9	9-91	80334383	Gear Pump Seal Kit
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9	9-97	80334380	Transmission Control Valve Seal Kit
9	9-99	80334513	Outrigger Selector Valve Seal Kit
9	9-111	80974021	Thermal-Bypass Valve Element Kit

SERVICE KITS

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9	9-117	80334512	Blade Selector Valve Seal Kit
12	12-31	80263020	Washer Nozzle Kit

SECTION 1

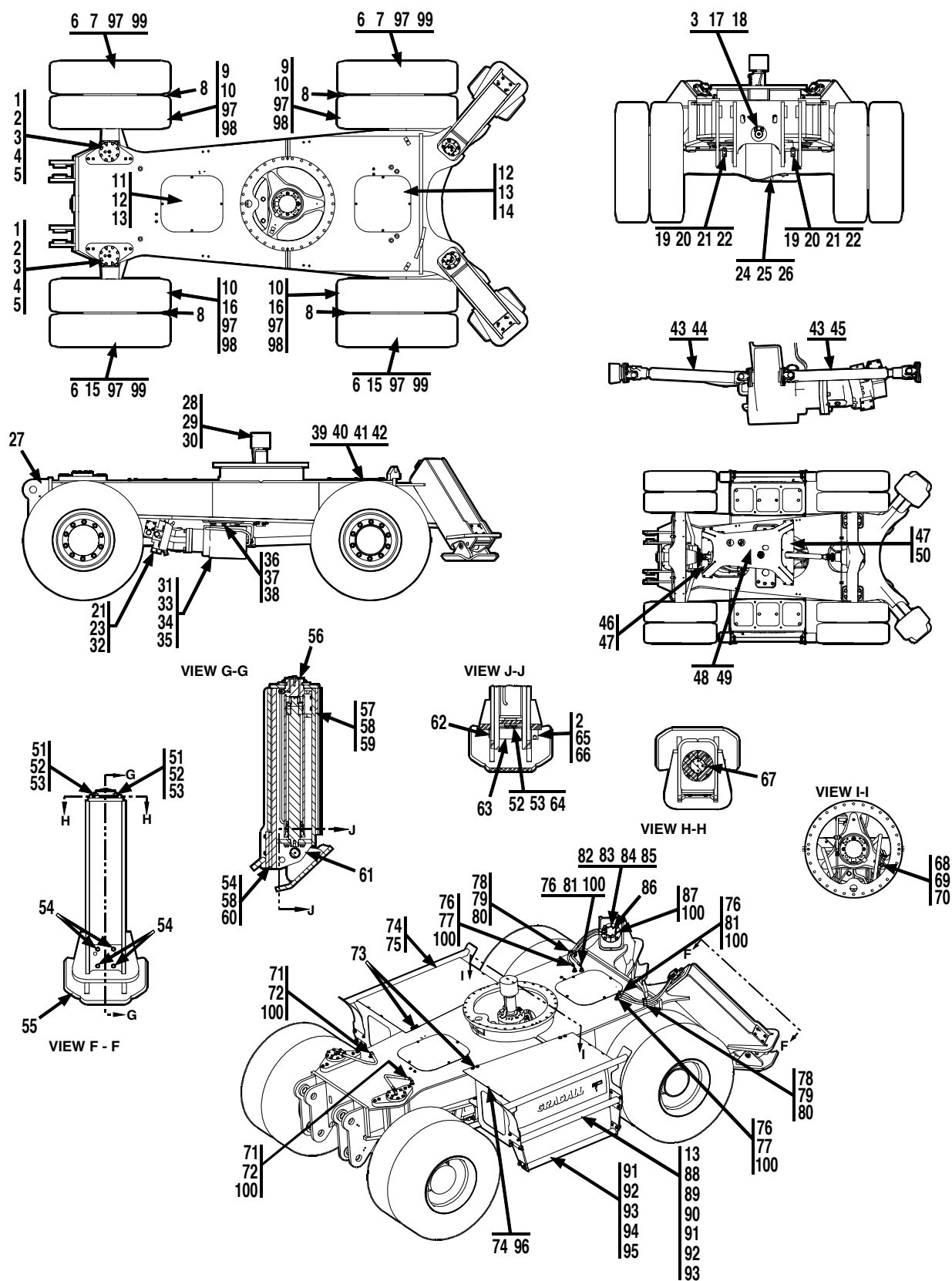
FRAME & ATTACHING PARTS





FRAME & ATTACHING PARTS

Figure 1-1 Frame Assembly



PAD7960

FRAME & ATTACHING PARTS



Figure 1-1 Frame Assembly

Item	Part Number	Qty.	Description	Rev.
1	88201071	8	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5, (loctite & torque to 68-78 lb-ft)	
2	88201075	18	HEX HD CAPSCREW, 1/2-13X3-1/2, GR5, (loctite & torque to 68-78 lb-ft)	
3	88551013	26	LOCKWASHER, 1/2	
4		Ref	OSCILLATION CYLINDER, (see Figure 9-5 for details)	
5	80301181	2	SPACER	
6	80304001	40	LUG NUT, (lubricate & torque to 425-450 lb-ft)	
7	80305007	2	R.H. OUTER TIRE & WHEEL ASSY, (includes items 97 & 99)	
8	80303071	4	TIRE SPACER	
9	80305006	2	R.H. INNER TIRE & WHEEL ASSY, (includes items 97 & 98)	
10	85403068	4	TIRE VALVE EXTENSION	
11	80301083	1	COVER	
12	88551011	8	LOCKWASHER, 3/8	
13	88201035	16	HEX HD CAPSCREW, 3/8-16X1, GR5	
14	80301164	1	COVER	
15	80305005	2	L.H. OUTER TIRE & WHEEL ASSY, (includes items 97 & 99)	
16	80305004	2	L.H. INNER TIRE & WHEEL ASSY, (includes items 97 & 98)	
17	88201065	2	HEX HD CAPSCREW, 1/2-13X1, GR5	
18	91081313	1	KEEPER	
19	80306023	2	CLAMP BRACKET WELDMENT	
20	80303046	8	HEX HD CAPSCREW, M16X2X35, GR10.9, (loctite & torque to 231 lb-ft)	
21	83783030	12	LOCKWASHER, M16	
22	80301186	2	AXLE PAD	
23	83191055	4	SOCKET HD CAPSCREW, M16X2X50, GR12.9, (loctite & torque to 271 lb-ft)	
24	88671002	1	LUBE FITTING, 1/8-27	
25	80303075	1	AXLE PIN	
26		Ref	STEER AXLE, (see Figure 5-12 for details)	
27	80306005	1	CHASSIS FRAME WELDMENT	
28	80333125	3	HARDENED WASHER, M16	
29	83191043	3	HEX HD CAPSCREW, M16X2X30, (loctite & torque to 166 lb-ft)	
30		Ref	CENTER PIN, (see Figure 9-28 for details)	
31	80333121	3	HARDENED WASHER, M20	
32		Ref	DRIVE MOTOR, (see Figure 9-27 for details)	
33		Ref	TRANSMISSION, (see Figures 5-1 thru 5-11 for details)	
34	83193028	1	HEX HD CAPSCREW, M20X2.5X40mm, GR10.9, (loctite & torque to 451 lb-ft)	
35	80333163	2	HEX HD CAPSCREW, M20X2.5X50, GR10.9	
36	80306022	1	TRANSMISSION BRACKET WELDMENT	
37	83201038	6	HEX HD CAPSCREW, 3/4-10X4-1/4, GR8	
38	12001237	6	HARDENED WASHER, 3/4	
39		Ref	DRIVE AXLE, (see Figure 5-18 for details)	
40	80333160	8	HEX HD CAPSCREW, M24X3X230mm, (loctite & torque to 780 lb-ft)	
41	80333124	8	HARDENED WASHER, M24	
42	80301130	2	AXLE PAD	
43	80303045	32	LOCKNUT, M10X1, (lubricate & torque to 53-58 lb-ft)	
44		Ref	REAR DRIVESHAFT, (see Figure 5-22 for details)	
45		Ref	FRONT DRIVESHAFT, (see Figure 5-22 for details)	
46	80301159	1	FRONT SKID PLATE COVER	
47	80973025	10	WHIZ-LOK SCREW, 3/8-16X1	
48	80306035	1	SKID PLATE	
49	80223046	8	HEX FLANGE CAPSCREW, 1/2-13X1	



FRAME & ATTACHING PARTS

Figure 1-1 Frame Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.
50	80301160	1	REAR SKID PLATE COVER	
51	80301069	4	CYLINDER RETAINER PLATE	
52	88201066	16	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5	
53	12381025	16	HARDENED WASHER, 1/2	
54	80301200	4	KEEPER	
55	80306025	2	PAD WELDMENT	
56		Ref	OUTRIGGER CYLINDER, (see Figure 9-4 for details)	
57	80303077	2	INNER TUBE PAD	
58	88201535	16	HEX HD CAPSCREW, 3/8-24X1-1/4, GR5, (loctite & torque to 32-37 lb-ft)	
59	12001234	8	HARDENED WASHER, 3/8	
60	80303078	2	OUTER TUBE PAD	
61	80306028	2	STABILIZER LEG WELDMENT	
62	88671001	2	GREASE FITTING	
63	80301169	2	SPACER	
64	80301096	4	RETAINER PLATE	
65	80303009	2	CYLINDER PIN	
66	88521208	2	HEX LOCKNUT, 1/2-13	
67	88631644	2	DOWEL PIN, 3/8X3/4	
68	80333143	1	CLAMP	
69	77133140	1	COVER PLATE	
70	77133177	1	HEX BOLT	
71	88662330	2	ELBOW, 90 DEGREES, (includes item 100)	
72	84719508	2	HOSE ASSY	
73	80301187	2	STEP SPACER	
74	80223034	16	WHIZ-LOK SCREW, 1/2-13X3/4, (loctite & torque to 108 lb-ft)	
75	80306021	1	RIGHT STEP WELDMENT	
76	88662310	4	ADAPTER, (includes item 100)	
77	84719516	2	HOSE ASSY	
78	77133137	2	COVER PLATE	
79	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
80	77133136	2	CLAMP	
81	84719515	2	HOSE ASSY	
82	80003691	4	O-RING	
83	88551009	8	LOCKWASHER, 1/4	
84	88201008	8	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5, (loctite & torque to 9-14 lb-ft)	
85		Ref	OUTRIGGER VALVE BLOCK ASSY, (see Figures 9-37 for details)	
86	88221249	8	SOCKET SET SCREW, 1/4-20X3/8	
87	88662193	4	HEX SOCKET HD PLUG, (includes item 100)	
88	80306045	2	MIDDLE RUNG WELDMENT	
89	80273104	4	STEP SUPPORT	
90	80271316	4	CAP PLATE	
91	88201037	16	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
92	88561004	48	FLAT WASHER, 3/8	
93	88521306	24	HEX LOCKNUT, 3/8-16	
94	80306044	2	BOTTOM RUNG WELDMENT	
95	80271315	4	CAP PLATE	
96	80306017	1	LEFT STEP WELDMENT	
97	80303008	8	TIRE, (inflate to 95-105 psi)	
98	80303001	4	INNER WHEEL	



Figure 1-1 Frame Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.
99	80303002	4	OUTER WHEEL	
100	88591205	10	O-RING	



FRAME & ATTACHING PARTS

Figure 1-2 Frame & Plumbing

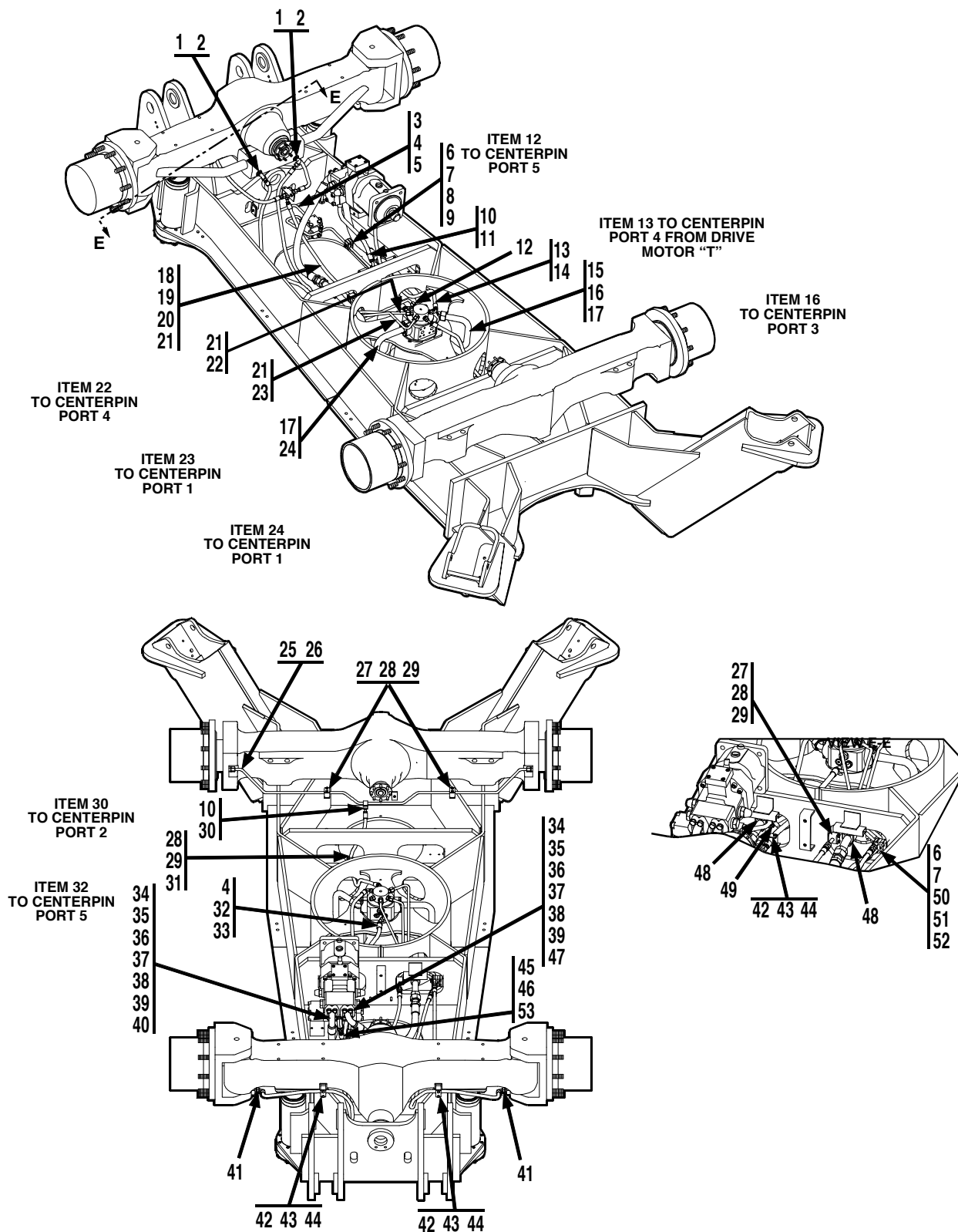




Figure 1-2 Frame & Plumbing

Item	Part Number	Qty.	Description	Rev.
1	80333151	2	ELBOW, 90 DEGREES, (includes o-ring)	
2	84719505	2	HOSE ASSY	
3	88662302	1	CONNECTOR, (includes item 4)	
4	88591205	2	O-RING	
5	80303056	1	TUBE ASSY	
6	77133168	3	CLAMP	
7	77133140	3	COVER PLATE	
8	88201024	1	HEX HD CAPSCREW, 5/16-18X2, GR5	
9	77143006	1	WHIZ-LOK NUT, 5/16-18	
10	88591505	2	O-RING	
11	84719488	1	HOSE ASSY	
12	80303043	1	FRONT BRAKE TUBE	
13	84719724	1	HOSE ASSY	
14	80233315	1	ADAPTER, (includes o-ring)	
15	80333137	1	ELBOW, 45 DEGREES, (includes o-ring)	
16	80303048	1	LEFT PROPEL TUBE	
17	80333135	2	METRIC FLANGE KIT	
18	84719511	2	HOSE ASSY	
19	88662434	1	CONNECTOR	
20	84719510	1	HOSE ASSY	
21	88591506	3	O-RING	
22	80303042	1	LEFT STEER TUBE	
23	80303041	1	RIGHT STEER TUBE	
24	80303018	1	RIGHT PROPEL TUBE	
25	80333164	2	ADAPTER, (includes o-ring)	
26	80303058	1	REAR BRAKE TUBE	
27	91033138	3	CLAMP	
28	77133498	4	COVER PLATE	
29	77133499	8	HEX HD CAPSCREW, 1/4-20X1-5/16	
30	84719509	1	HOSE ASSY	
31	77133497	1	CLAMP	
32	84721023	1	HOSE ASSY	
33	88662419	1	ELBOW, 45 DEGREES, (includes item 4)	
34	88591510	2	O-RING	
35	83191014	8	LOCKWASHER, M14	
36	83191068	6	HEX HD CAPSCREW, M14X2X130, GR8	
37	83191067	2	HEX HD CAPSCREW, M14X2X45, GR8	
38	91083339	2	O-RING	
39	80233293	4	FLANGE HALF	
40	84719481	1	LEFT PROPEL HOSE	
41	80333130	2	ADAPTER, (includes o-ring)	
42	77133209	4	HEX HD CAPSCREW, 1/4-20X1-3/8	
43	77133052	3	COVER PLATE	
44	77133053	3	CLAMP	
45	80303085	1	ELBOW, 90 DEGREES	
46	88662480	1	CONNECTOR, (includes item 53)	
47	84719482	1	RIGHT PROPEL HOSE	
48	90205792	2	HYDRA-ZORB CLAMP, 1.25	
49	91083217	1	HYDRA-ZORB CLAMP, 5/8	



Figure 1-2 Frame & Plumbing (Continued)

Item	Part Number	Qty.	Description	Rev.
50	77133390	1	SAFETY CLIP	
51	77133389	1	STACK BOLT	
52	77133177	1	HEX BOLT	
53	88591207	1	O-RING	

FRAME & ATTACHING PARTS



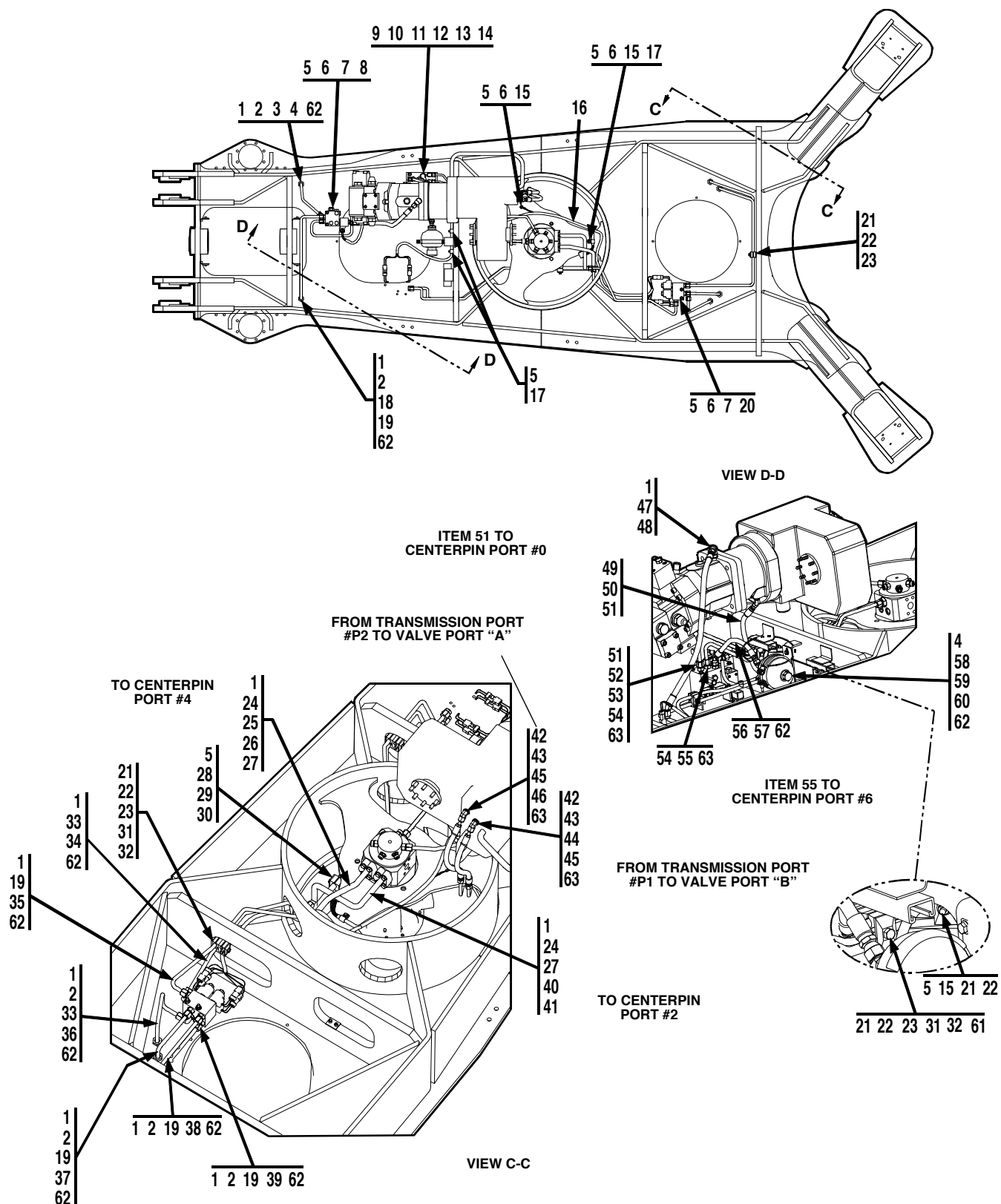
Figure 1-2 Frame & Plumbing (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-2 Frame & Plumbing



FRAME & ATTACHING PARTS



Figure 1-2 Frame & Plumbing

Item	Part Number	Qty.	Description	Rev.
1	88591506	11	O-RING	
2	88662503	6	BULKHEAD NUT	
3	80303027	1	OSCILLATION BULKHEAD TUBE	
4	88662419	2	ELBOW, 45 DEGREES, (includes item 62)	
5	77143006	10	WHIZ-LOK NUT, 5/16-18	
6	88561003	6	FLAT WASHER, 5/16	
7	91083340	4	HEX HD CAPSCREW, 5/16-18X4-1/2	
8		Ref	OSCILLATION ANTI-DRIFT VALVE, (see Figure 9-36 for details)	
9	88591006	1	O-RING	
10	80333165	1	PRESSURE SWITCH	
11	88561002	4	FLAT WASHER, 1/4	
12	88551009	4	LOCKWASHER, 1/4	
13	80333123	4	HEX HD CAPSCREW, 1/4-20X5	
14		Ref	TRANSMISSION CONTROL VALVE, (see Figure 9-31 for details)	
15	88201024	3	HEX HD CAPSCREW, 5/16-18X2, GR5	
16	80303014	1	WIRING HARNESS	
17	85941016	3	P-CLAMP, 1/2	
18	80303028	1	OSCILLATION BULKHEAD TUBE	
19	88662302	5	STR THD CONNECTOR, (includes item 62)	
20		Ref	OUTRIGGER SELECTOR VALVE, (see Figure 9-32 for details)	
21	77133168	5	CLAMP	
22	77133140	5	COVER PLATE	
23	77133177	3	HEX BOLT	
24	84714018	2	PLUG	
25	80303024	1	TUBE ASSY	
26	80303019	1	TUBE ASSY	
27	80333134	2	METRIC FLANGE KIT	
28	88201026	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
29	77133137	2	COVER PLATE	
30	77133136	1	CLAMP	
31	77133389	2	STACK BOLT	
32	77133390	2	SAFETY CLIP	
33	88662330	2	ELBOW, 90 DEGREES, (includes item 62)	
34	80303022	1	OUTRIGGER SELECT "B" TUBE	
35	80303023	1	OUTRIGGER SELECT "A" TUBE	
36	80303030	1	RIGHT OUTRIGGER UP TUBE	
37	80303031	1	RIGHT OUTRIGGER DOWN TUBE	
38	80303033	1	LEFT OUTRIGGER DOWN TUBE	
39	80303032	1	LEFT OUTRIGGER UP TUBE	
40	80303020	1	TUBE ASSY	
41	80303025	1	TUBE ASSY	
42	80333132	2	ELBOW, 45 DEGREES, (includes o-ring)	
43	84719507	2	HOSE ASSY	
44	80303070	1	TUBE ASSY	
45	88662329	2	ELBOW, 90 DEGREES, (includes item 63)	
46	80303069	1	TUBE ASSY	
47	84719723	1	HOSE ASSY	
48	80303095	1	ELBOW, 90 DEGREES, (includes o-ring)	
49	80333167	1	ELBOW, 45 DEGREES, (includes o-ring)	



FRAME & ATTACHING PARTS

Figure 1-2 Frame & Plumbing (Continued)

Item	Part Number	Qty.	Description	Rev.
50	84719503	1	HOSE ASSY	
51	88591505	2	O-RING	
52	84714013	1	CAP	
53	80303076	1	TANK DUMP TUBE	
54	88662440	2	CONNECTOR, (includes item 63)	
55	80303040	1	PILOT SUPPLY TUBE	
56	84719513	1	HOSE ASSY	
57	88662310	1	CONNECTOR, (includes item 62)	
58	80433046	1	ACCUMULATOR CLAMP	
59	77143003	2	WHIZ-LOK SCREW, 5/16-18X5/8	
60	80433045	1	ACCUMULATOR	
61	80333143	1	CLAMP	
62	88591205	10	O-RING	
63	88591204	4	O-RING	

FRAME & ATTACHING PARTS



Figure 1-2 Frame & Plumbing (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-3 L.H. Rotating Platform

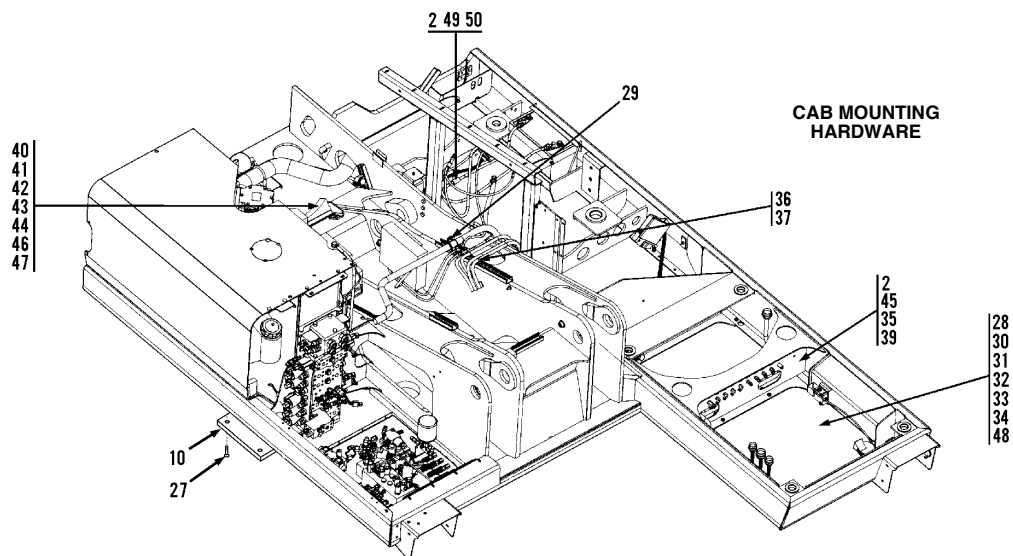
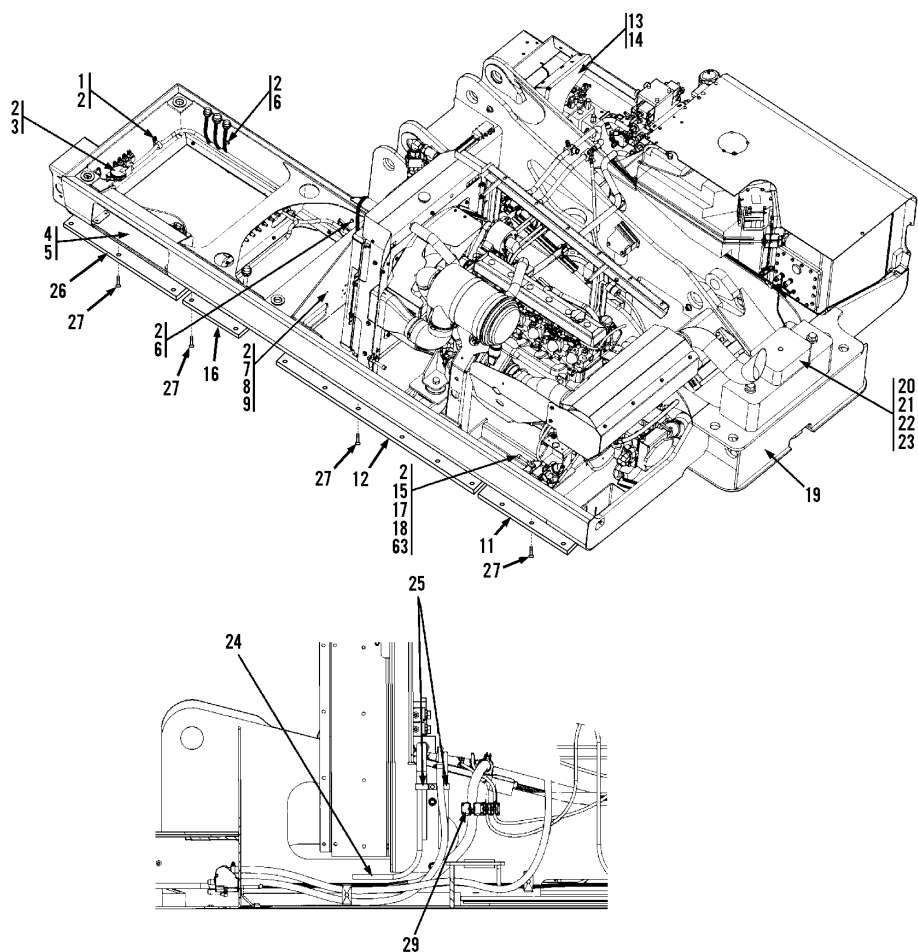




Figure 1-3 L.H. Rotating Platform

Item	Part Number	Qty.	Description	Rev.
1	85841150	1	SUPPORT CLAMP	
2	77143015	13	WHIZ-LOK NUT, 3/8-16	
3	88551015	4	LOCKWASHER, 5/8	
4	77143003	6	WHIZ-LOK BOLT, 5/16-18X5/8	
5	80371116	1	STEP PLATE	
6	85031405	2	SUPPORT CLAMP	
7	80373035	1	GREASE GUN HOLDER	
8	88561004	1	FLAT WASHER, 3/8	
9	88201034	1	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
10	85941017	3	SUPPORT CLAMP	
11	80336009	1	CLAMP BRACKET WELDMENT	
12	80271316	1	END CAP	
13	80371143	1	SUPPORT BRACKET	
14	80223034	2	WHIZ-LOK BOLT, 1/2-13X3/4, (lubricate & torque to 1-22 lb-ft)	
15	83191071	2	HEX NUT, M14	
16	83191070	1	SOCKET HD CAPSCREW, M14X2X100	
17	80973096	2	WHIZ-LOK BOLT, 3/8-16X1-1/2	
18	80371136	1	REAR STRIKER PLATE	
19	80346005	1	UPPER FRAME WELDMENT	
20	80346008	1	COUNTERWEIGHT BLOCK	
21	83201180	2	HEX HD CAPSCREW, 1-8X14, GR5, (loctite & torque to 545-595 lb-ft)	
22	80241137	4	SPECIAL WASHER	
23	88521216	2	HEX LOCKNUT, 1-8	
24	90027187	3	TY-RAP	
25	80673025	2	SUPPORT CLAMP	
26	91083216	4	CUSHION CLAMP	
27	88662329	1	ELBOW, 90 DEGREES, (includes item 73)	
28	84719318	2	HOSE ASSY	
29	90205793	2	CUSHION CLAMP	
30	88662418	1	ELBOW, 45 DEGREES, (includes item 73)	
31		Ref	SOLENOID VALVE, (see Figure 9-34 for details)	
32	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
33	88551009	6	LOCKWASHER, 1/4	
34	84719243	1	HOSE ASSY	
35	88662489	1	ELBOW, 90 DEGREES, (includes item 73)	
36	80371128	1	LOCKPIN	
37	80371132	1	BRACE	
38	80263012	2	WHIZ-LOK BOLT, 1/4-20X1/2	
39	80371131	1	LOCKPIN MOUNT BRACKET	
40	88501404	3	HEX NUT, 1/4-28, (loctite & torque to 11-14 lb-ft)	
41		Ref	SWING LOCK CYLINDER, (see Figure 9-6 for details)	
42	88501408	1	HEX NUT, 1/2-20	
43	88662328	1	ELBOW, 90 DEGREES, (includes item 74)	
44	80371130	1	CYLINDER MOUNT BRACKET	
45	80973025	5	WHIZ-LOK BOLT, 3/8-16X1	
46	24601710	2	SUPPORT CLAMP	
47	91043147	1	SUPPORT CLAMP	
48	88551013	4	LOCKWASHER, 1/2	
49	88201065	4	HEX HD CAPSCREW, 1/2-13X1, GR5	



FRAME & ATTACHING PARTS

Figure 1-3 L.H. Rotating Platform (Continued)

Item	Part Number	Qty.	Description	Rev.
50	80943007	1	CRADLE STOP	
51	80341049	1	STOP PLATE	
52	80341048	1	STOP BRACKET, R.H.	
53	80341047	1	STOP BRACKET, L.H.	
54	80341046	1	STOP BLOCK	
55	77133136	2	CLAMP SET	
56	77133137	2	COVER PLATE	
57	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
58	77383936	2	CLEARANCE LIGHT, YELLOW	
59	77383952	2	GROMMET KIT	
60	86983193	2	MALE BULLET CONNECTOR	
61	77163105	2	FEMALE BULLET CONNECTOR	
62	77143013	5	WHIZ-LOK NUT, 1/4-20	
63	80973096	1	WHIZ-LOK BOLT, 3/8-16X1-1/2	
64	91083217	5	CUSHION CLAMP	
65	90207463	2	CUSHION CLAMP	
66	80263042	1	CAB GROUND CABLE	
67		Ref	CAB ASSY, (see Figures 6-1 thru 6-2 for details)	
68	80363065	4	SHOCK MOUNT	
69	91203138	4	REBOUND WASHER	
70	83201044	2	HEX HD CAPSCREW, 5/8-11X4, (loctite & torque to 200-215 lb-ft)	
71	88212265	2	SOCKET HD CAPSCREW, 5/8-11X4, (loctite & torque to 200-215 lb-ft)	
72	86881287	4	FLAT WASHER, 7/8	
73	88591204	3	O-RING	
74	88591202	1	O-RING	
75	83683085	1	WASHER TANK	
76	88501004	4	HEX NUT, 1/4-20	
77	88561002	4	FLAT WASHER, 1/4	
78	80973025	28	WHIZ-LOK BOLT, 3/8-16X1	
79	80371105	1	CAB BELLY PAN	
80	80371104	1	REAR CAB BELLY PAN	
81	80371103	1	MIDDLE BELLY PAN	
82	80371102	1	REAR BELLY PAN	
83	80371135	1	VALVE BELLY PAN	

FRAME & ATTACHING PARTS



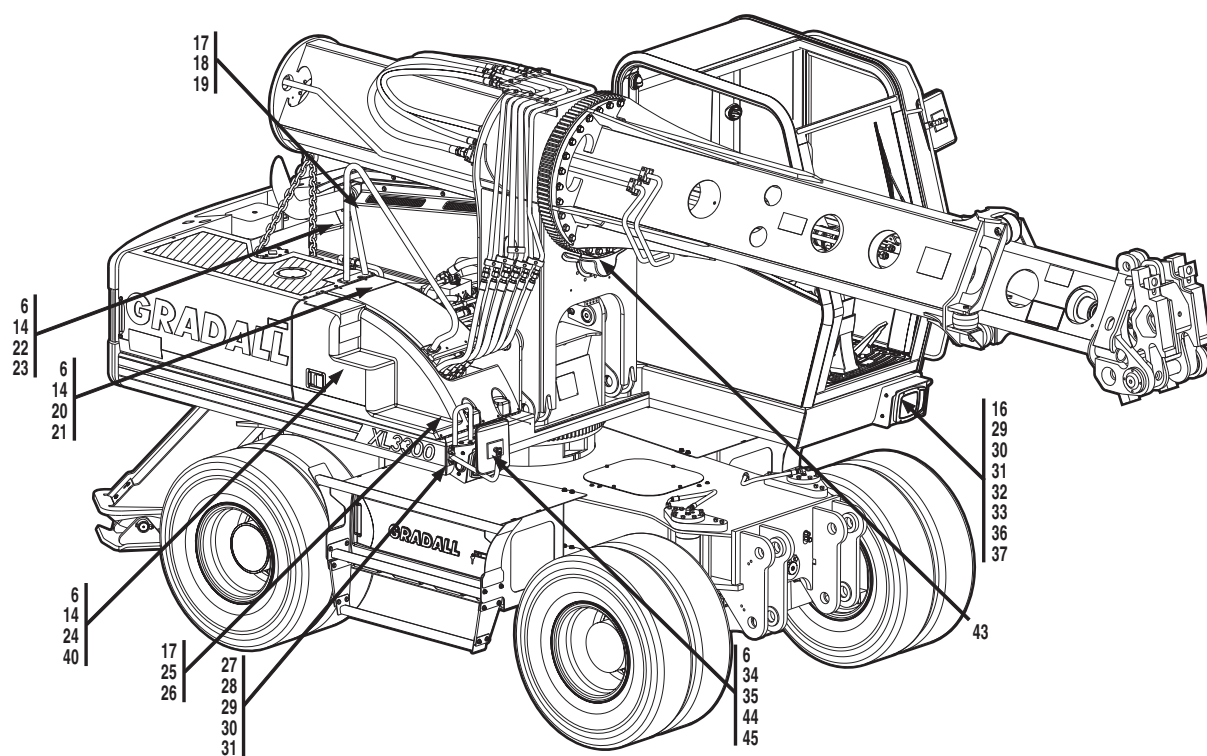
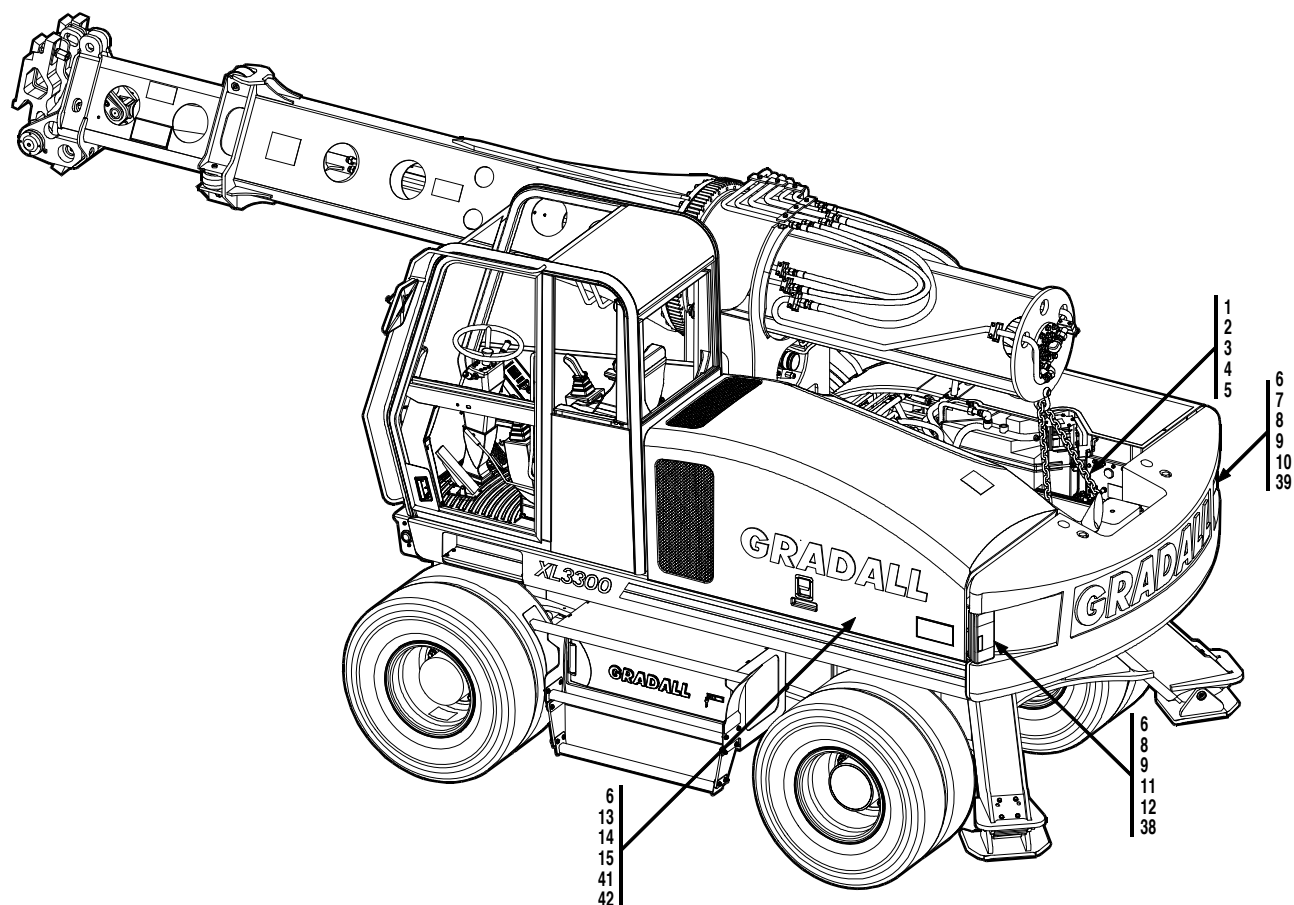
Figure 1-3 L.H. Rotating Platform (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-4 R.H. Rotating Platform



PAD8000
PAD8010

FRAME & ATTACHING PARTS



Figure 1-4 R.H. Rotating Platform

Item	Part Number	Qty.	Description	Rev.
1	80313021	1	HOLD-DOWN CHAIN	
2	80313022	2	DOUBLE CLEVIS LINK	
3	80313023	1	ANCHOR SHACKLE	
4	83793034	1	HITCH PIN CLIP, (large)	
5	83211042	2	HITCH PIN CLIP, (small)	
6	80973025	32	WHIZ-LOK SCREW, 3/8-16X1	
7	80303061	1	TAIL LIGHT, RIGHT	
8	83191012	8	LOCKWASHER, M6	
9	83191019	8	HEX NUT, M6-1	
10	80306033	1	LIGHT BRACKET, RIGHT	
11	80303062	1	TAIL LIGHT, LEFT	
12	80306024	1	LIGHT BRACKET, LEFT	
13		Ref	ENGINE COVER, (see Figure 1-6 for details)	
14	77143015	21	WHIZ-LOK NUT, 3/8-16	
15	80373160	1	PULL STRAP	
16	80304337	1	BULB, (middle)	
17	88561004	6	FLAT WASHER, 3/8	
18	80373098	1	ENGINE COVER PANEL	
19	88201036	3	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
20	80373019	1	INSIDE VALVE COVER	
21	80371140	AR	SPACER, 1/4	
	80371133	AR	SPACER, 3/8	
	80371141	AR	SPACER, 1/2	
22	80373022	1	GRAB RAIL, VALVE SIDE	
23	80371144	AR	SPACER, 1/8	
	80371145	AR	SPACER, 1/4	
	80371146	AR	SPACER, 3/8	
24		Ref	VALVE COVER, (see Figure 1-7 for details)	
25	80373125	1	GRAB RAIL	
26	88201035	3	HEX HD CAPSCREW, 3/8-16X1, GR5	
27	80301138	1	HEADLAMP BRACKET, RIGHT	
28	80303060	1	RIGHT HEADLAMP, (includes items 16, 36 & 37)	
29	88301077	8	ROUND HD MACHINE SCREW, #8-32X1-1/4	
30	88501610	8	HEX NUT, #8-32	
31	91363018	8	WHIZ-LOK SCREW, 5/16-18X1	
32	80301137	1	HEADLAMP BRACKET, LEFT	
33	80303059	1	LEFT HEADLAMP, (includes items 16, 36 & 37)	
34	80363196	1	MIRROR MOUNT, (requires item 35), (S/N 0330647 & After excluding 0330648)	
35	80363195	1	MIRROR, (requires item 34), (S/N 0330647 & After excluding 0330648)	
36	80304335	1	BULB, (top)	
37	80304336	1	BULB, (bottom)	
38	80304474	1	L.H. LENS	
39	80304475	1	R.H. LENS	
40	80341146	1	SHIM	
41	77143006	2	WHIZ-LOK NUT, 3/8-16	
42	91363018	2	WHIZ-LOK SCREW, 5/16-18X1	
43	80423012	1	PINION COVER	
44	80263051	1	MIRROR MOUNT, (requires item 45), (Before S/N 0330647 including 0330648)	



FRAME & ATTACHING PARTS

Figure 1-4 R.H. Rotating Platform (Continued)

Item	Part Number	Qty.	Description	Rev.
45	80263053	1	MIRROR, (requires item 44), (Before S/N 0330647 including 0330648)	

FRAME & ATTACHING PARTS



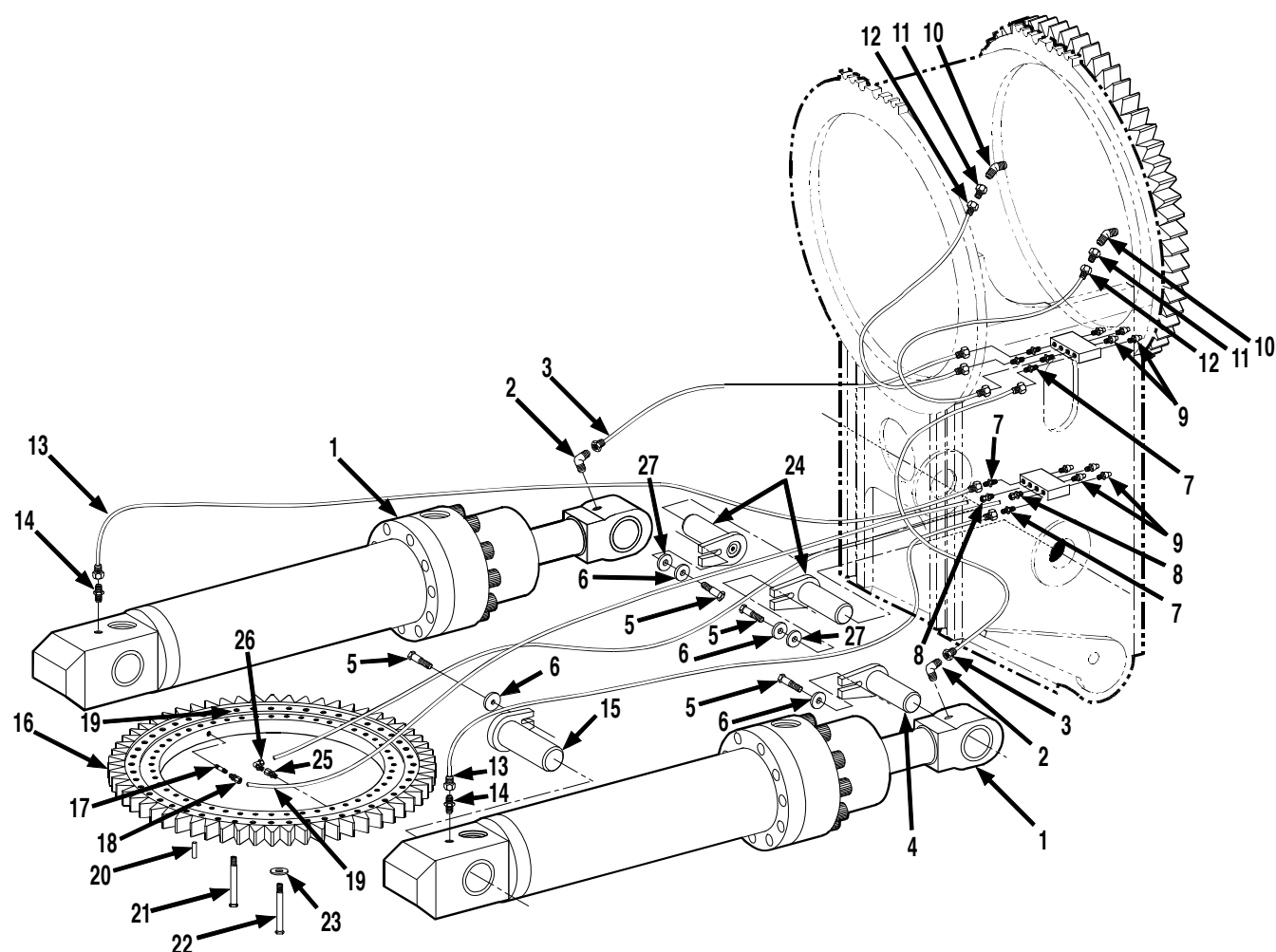
Figure 1-4 R.H. Rotating Platform (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-5 Swing Bearing, Cradle & Hoist Cylinder Mounting & Lube System



ITEM 21 IS USED TO ATTACH THE SWING BEARING TO THE UNDERCARRIAGE; ITEM 22 IS USED TO ATTACH THE UPPERSTRUCTURE TO THE UNDERCARRIAGE.



Figure 1-5 Swing Bearing, Cradle & Hoist Cylinder Mounting & Lube System

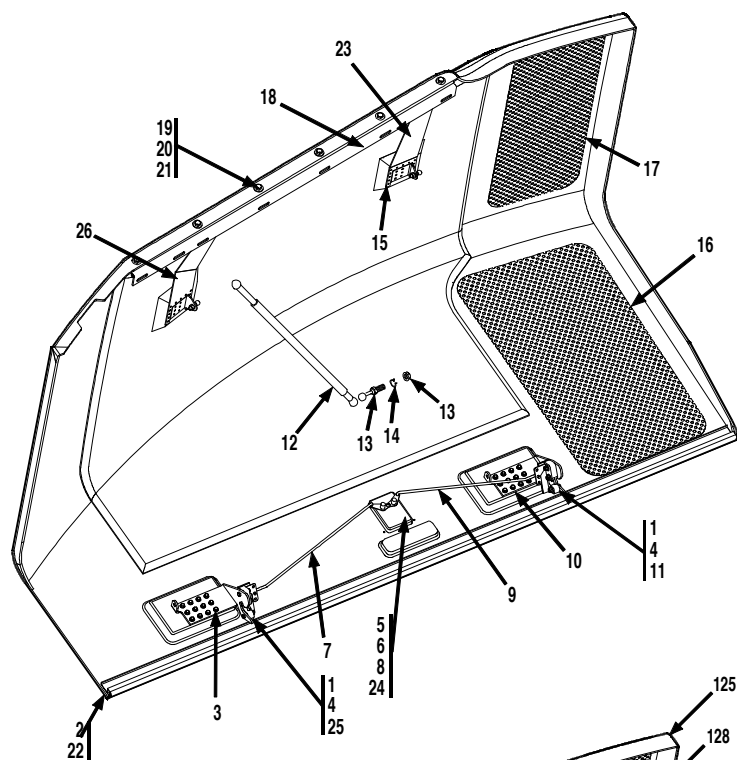
Item	Part Number	Qty.	Description	Rev.
1		Ref	HOIST CYLINDER ASSY, (see Figure 9-1 for details)	
2	88661102	2	MALE ELBOW, 90 DEGREES, 1/8X3/16 TUBE	
3	84718297	2	HOSE ASSY	
4	80326011	2	PIN WELDMENT	
5	88201065	6	HEX HD CAPSCREW, 1/2-13X1, GR5	
6	80321089	6	SPECIAL WASHER	
7	88661002	6	MALE CONNECTOR, 1/8X3/16 TUBE	
8	86881273	2	TUBE FITTING, STRAIGHT, 1/8	
9	88671001	8	LUBE FITTING, STRAIGHT, 1/8	
10	88661136	2	MALE ELBOW, 45 DEGREES, 1/8	
11	88691302	2	STRAIGHT CONNECTOR	
12	84718482	2	HOSE ASSY	
13	84718297	2	HOSE ASSY	
14	88661002	2	MALE CONNECTOR, 1/8X3/16 TUBE	
15	80926012	2	PIN WELDMENT	
16	80323001	1	SWING GEAR	
17	88701023	1	PIPE NIPPLE, 1/8	
18	83683435	1	TUBE FITTING, 1/4	
19		AR	NYLON TUBING, 1/4	
20	88631684	1	DOWEL PIN, 3/4X2	
21	83201058	30	HEX HD CAPSCREW, 3/4-10X3-3/4, GR8, (lubricate & torque to 340-365 lb-ft)	
22	83201001	30	HEX HD CAPSCREW, 3/4-10X4-1/4, GR8, (lubricate & torque to 340-365 lb-ft)	
23	90027473	30	HARDENED WASHER, 3/4	
24	80626014	2	PIN WELDMENT	
25	88691302	1	BIJUR STRAIGHT CONNECTOR	
26	86881276	1	ELBOW, 90 DEGREES, 1/8X1/4 TUBE	
27	88551013	2	LOCKWASHER, 1/2	



FRAME & ATTACHING PARTS

Figure 1-6 Engine Cover

OLD STYLE



NEW STYLE

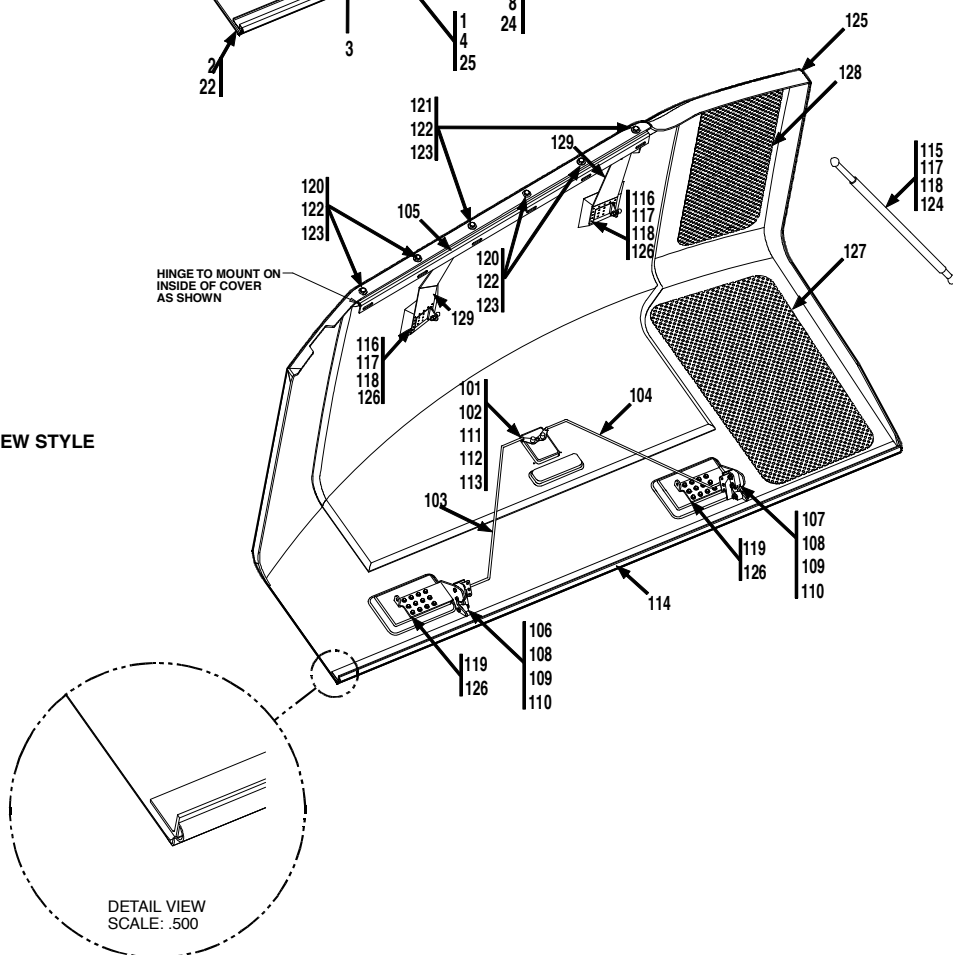




Figure 1-6 Engine Cover

Item	Part Number	Qty.	Description	Rev.
	80373089	1	ENGINE COVER, (includes all items)	
1	80384164	6	HEX NUT, 3/8-16	
2	80374093	79"	TRIM	
3	91474411	38	HEX HD CAPSCREW, #8-32X3/4	
4	80374083	1	LEFT ROTARY LATCH	
5	91474427	1	LATCH BACKING PLATE	
6	91474417	1	PADDLE HANDLE GASKET	
7	80374085	1	LEFT LINKAGE ROD	
8	80374082	1	LOCKING PADDLE HANDLE	
9	80374086	1	RIGHT LINKAGE ROD	
10	80374088	2	ROTARY LATCH BRACKET	
11	80374084	1	RIGHT ROTARY LATCH	
12	80374092	2	GAS PROP	
13	91474424	2	BALL STUD, (13mm)	
14	91474425	4	PROP CLIP	
15	80374081	2	PROP BRACKET	
16	80374090	1	BOTTOM SCREEN	
17	80374089	1	TOP SCREEN	
18	80374080	1	HINGE	
19	91474414	6	HEX BOLT, 5/16-18X1-1/4	
20	91474413	6	HEX NUT, 5/16-18	
21	91474412	6	LOCKWASHER, 5/16	
22	80374091	79"	LID RAIL	
23	80331034	1	FRONT BRACE	
24	91474416	4	RIVET, 3/8	
25	80384162	6	HEX BOLT, 3/8-16X1-1/2	
26	80331035	1	REAR BRACE	
	80484192	1	PLASTIC REPAIR KIT	
	80373089	1	ENGINE COVER, (includes all items)	
101	91474419	1	PADDLE LOCK	
102	91474417	1	PADDLE LOCK SEAL	
103	80484164	1	LONG ROD, 1/4	
104	80484165	1	SHORT ROD, 1/4	
105	80484163	1	HINGE	
106	80484169	1	ROTARY LOCK, L.H.	
107	80484170	1	ROTARY LOCK, R.H.	
108	88201022	4	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
109	88551010	4	LOCKWASHER, 5/16	
110	88501005	4	HEX NUT, 5/16-18	
111	88261005	4	SOCKET BUTTON HD CAPSCREW, #8-32X3/4	
112	80484160	4	KREP NUT, #8-32	
113	88561105	4	FLAT WASHER, #10	
114	80484171	1	ANGLE	
115	80484172	2	GAS SPRING	
116	80484166	4	BALL, 13MM	



FRAME & ATTACHING PARTS

Figure 1-6 Engine Cover

Item	Part Number	Qty.	Description	Rev.
117	88501005	4	HEX NUT, 5/16	
118	88551010	4	LOCKWASHER, 5/16	
119	80374101	2	ROTARY LOCK BRACKET	
120	88261029	4	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
121	80484168	2	SOCKET BUTTON HD CAPSCREW, 3/8-16X1-1/2'	
122	88521006	6	HEX LOCKNUT, 3/8-16	
123	88561109	12	FLAT WASHER, 3/8	
124	80484167	2	GAS SPRING, 210#	
125	80484173	1	SHELL W/ SCREEN, GRILL & ANGLE, (includes items 14, 25, 27 & 28)	
126	80484162	40	SHEET METAL SCREW, #10X3/4	
127	80484174	1	SIDE GRILL SCREEN	
128	80484175	1	TOP GRILL SCREEN	
129	80484176	2	BRACKET	
	80484192	1	PLASTIC REPAIR KIT	

FRAME & ATTACHING PARTS



Figure 1-6 Engine Cover

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-7 Valve Cover

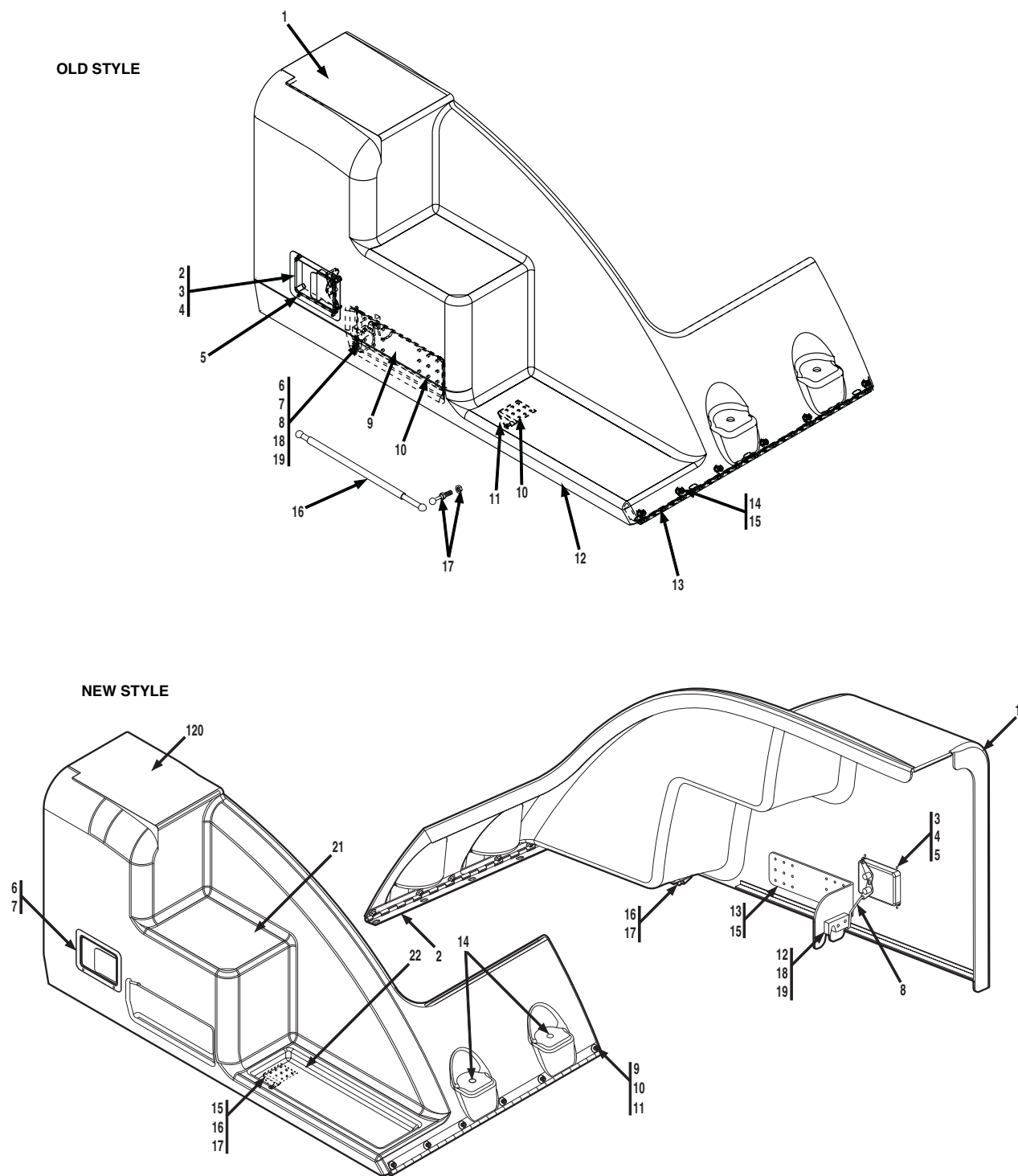




Figure 1-7 Valve Cover

Item	Part Number	Qty.	Description	Rev.
	80373036	1	VALVE COVER, (includes all items)	
1	80374104	3	TREAD MAT	
2	91474427	4	LATCH BACKING PLATE	
3	91474419	1	LOCKING PADDLE HANDLE	
4	91474417	1	PADDLE HANDLE GASKET	
5	91474416	4	RIVET, 3/16	
6	80374096	1	ROTARY LATCH, 3/8	
7	80374097	1	STEEL ROD, 5/32	
8	91404346	2	WHITE ROD CLIP	
9	80374183	1	ROTARY LATCH BRACKET	
10	91474411	25	HEX HD SCREW, #8-32X3/4	
11	80374095	1	PROP BRACKET	
12	80374098	1	LID TRIM	
13	80374094	1	HINGE, (stainless steel)	
14	80374099	6	HEX SOCKET BOLT, 1/4-20X1	
15	80374100	6	HEX NUT, 1/4-20, (stainless steel)	
16	80374076	1	GAS PROP	
17	80374105	1	BALL STUD	
18	80374102	2	HEX BOLT, 1/4-20X1	
19	80374103	2	LOCKWASHER, 1/4	
	80373036	1	VALVE COVER, (includes all items)	
101	80484159	1	VALVE COVER SHELL	
102	80374094	1	HINGE	
103	88261005	4	SOCKET BUTTON HD CAPSCREW, #8-32X3/4	
104	80484160	4	KREPNUT, #8-32	
105	88561105	4	FLAT WASHER, #10	
106	91474419	1	PADDLE LATCH	
107	91474417	1	PADDLE LATCH SEAL	
108	80374097	1	ROTARY LOCK ROD, 1/4	
109	88261018	6	SOCKET BUTTON HD CAPSCREW, 1/4-20X1	
110	88561107	12	FLAT WASHER, 1/4	
111	88521004	6	HEX LOCKNUT, 1/4-20	
112	80374096	1	ROTARY LOCK	
113	80374183	1	ROTARY LOCK BRACKET	
114	80484161	2	PLASTIC PLUG, 1/2	
115	80484162	25	HEX SHEET METAL SCREW, #1-X3/4	
116	80374095	1	GAS PROP MOUNT BRACKET	
117	80374105	1	BALL STUD, 10MM	
118	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
119	88551009	2	LOCKWASHER, 1/4	
120	80301209	1	NON-SKID TOP STEP	
121	80301208	1	NON-SKID MIDDLE STEP	
122	80301207	1	NON-SKID BOTTOM STEP	
123	80374076	1	GAS PROP, 130#, (not shown)	
	80484192	1	PLASTIC REPAIR KIT	

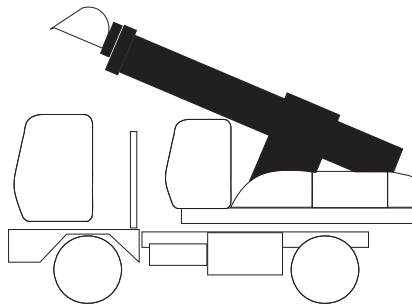


FRAME & ATTACHING PARTS

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SECTION 2

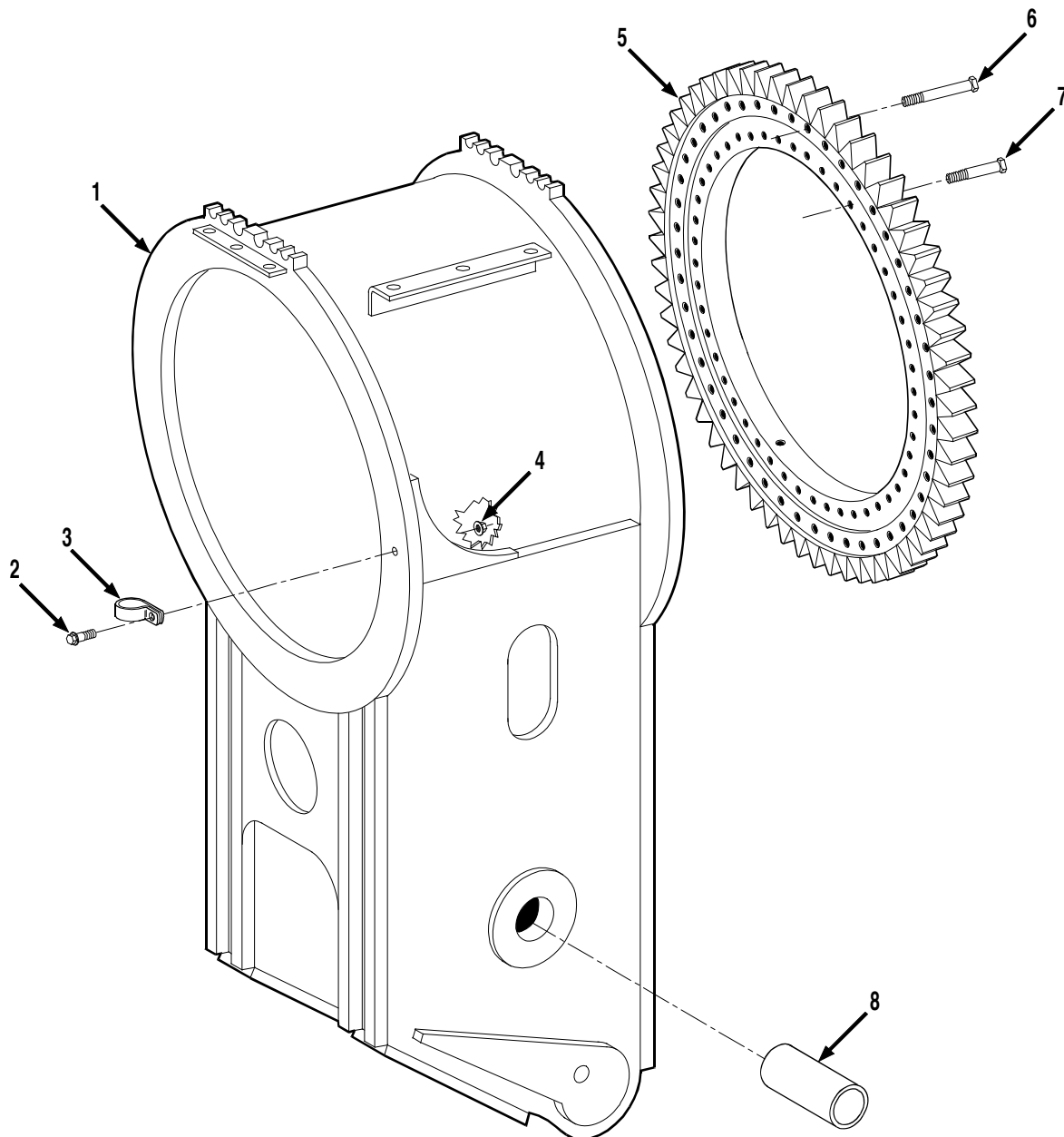
BOOM





BOOM

Figure 2-1 Boom Cradle Assembly



**Figure 2-1 Boom Cradle Assembly**

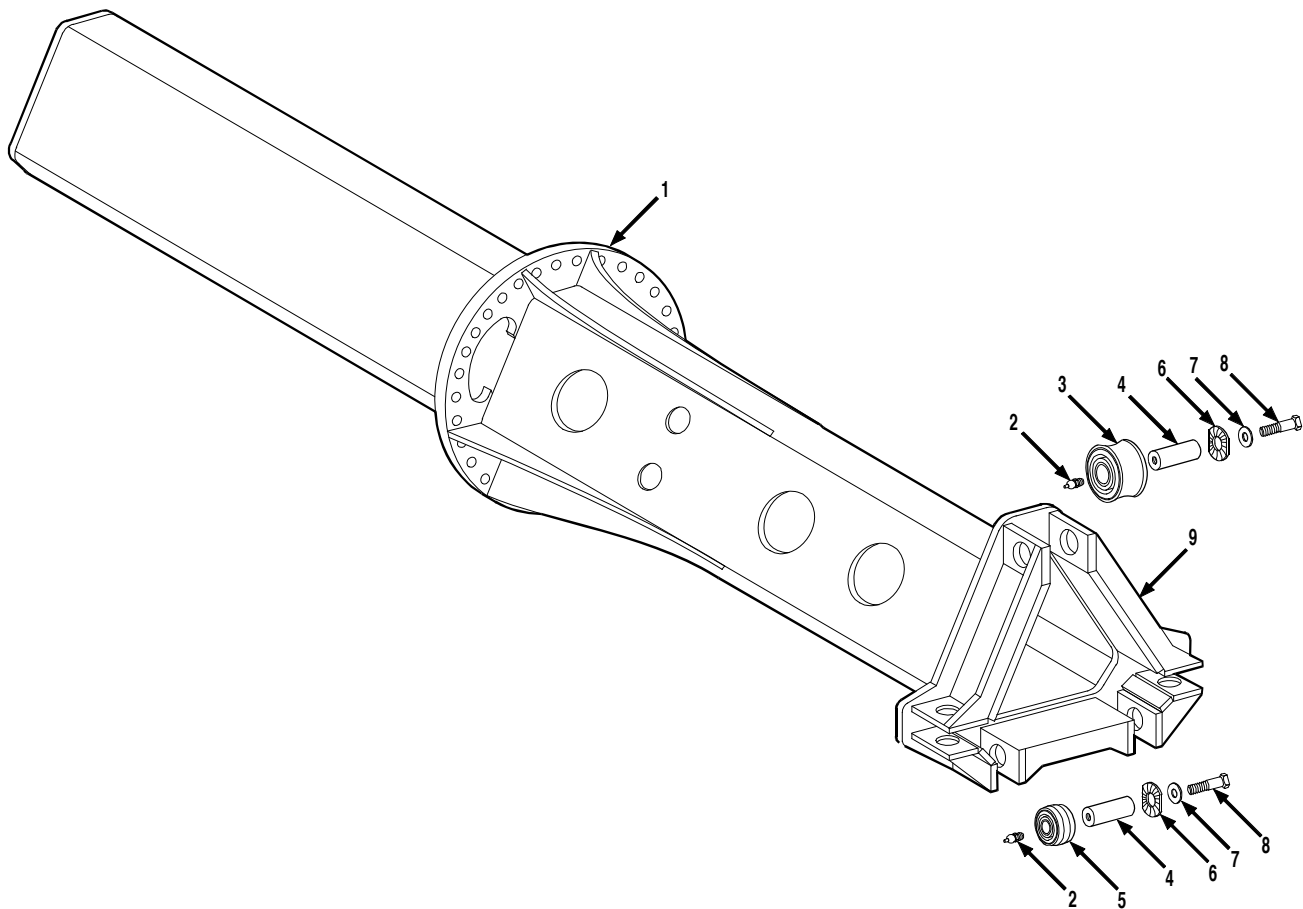
Item	Part Number	Qty.	Description	Rev.
1	80326002	1	BOOM CRADLE	
2	80973096	1	WHIZ-LOK SCREW, 3/8-16X1-1/2	
3	86521144	1	SUPPORT CLAMP	
4	77143015	1	WHIZ-LOK NUT, 3/8-16	
5	80323001	1	TILT GEAR	
6	80323013	30	HEX HD CAPSCREW, 3/4-10X5, GR8	
7	83201058	28	HEX HD CAPSCREW, 3/4-10X3-3/4, GR8	
8	80923009	2	BUSHING	



BOOM

Before S/N 0330647

Figure 2-2 Main Boom Assembly



PAD8060



Figure 2-2 Main Boom Assembly

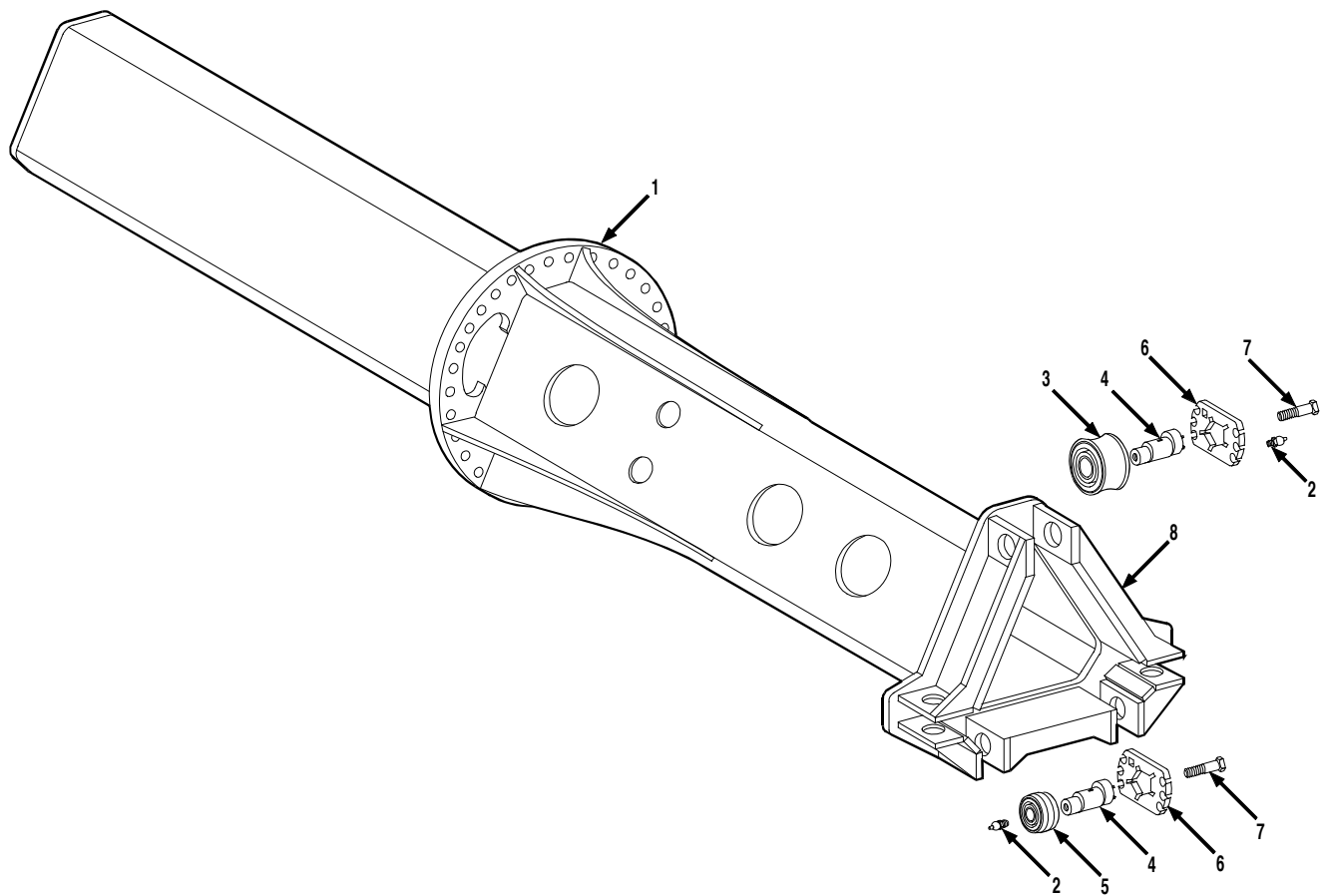
Item	Part Number	Qty.	Description	Rev.
1	80326015	1	MAIN BOOM WELDMENT	
2	88671001	5	LUBE FITTING, STRAIGHT, 1/8	
3		Ref	BOOM ROLLER ASSY, CONCAVE, (see Figure 2-3 for details)	
4	83421214	5	ECCENTRIC SHAFT	
5		Ref	BOOM ROLLER ASSY, CONVEX, (see Figure 2-3 for details)	
6	83421165	5	SERRATED WASHER	
7	85881153	5	WASHER	
8	24431384	5	HEX HD CAPSCREW, 3/8-16X1, GR5	
9	<i>Consult Factory</i>	1	BOOM ROLLER BRACKET	



BOOM

S/N 0330647 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

Figure 2-2 Main Boom Assembly



S/N 0330647 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

BOOM



Figure 2-2 Main Boom Assembly

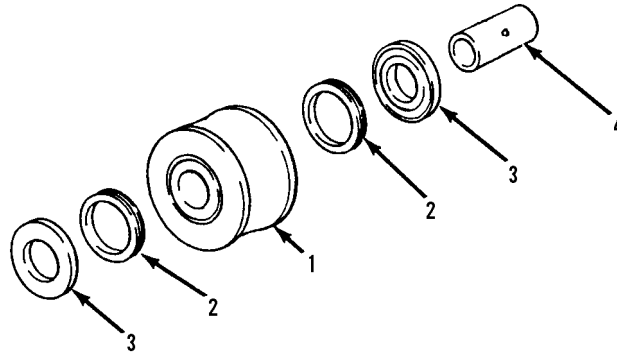
Item	Part Number	Qty.	Description	Rev.
1	80326028	1	MAIN BOOM WELDMENT,	
2	88671001	5	LUBE FITTING, STRAIGHT, 1/8	
3		Ref	BOOM ROLLER ASSY, CONCAVE, (see Figure 2-4 for details)	
4	80423005	5	ECCENTRIC SHAFT	
5		Ref	BOOM ROLLER ASSY, CONVEX, (see Figure 2-4 for details)	
6	80421109	5	ROLLER ADJUSTMENT PLATE	
7	80223035	5	FLANGE BOLT, 1/2-13X3/4	
8	<i>Consult Factory</i>	1	BOOM ROLLER BRACKET	



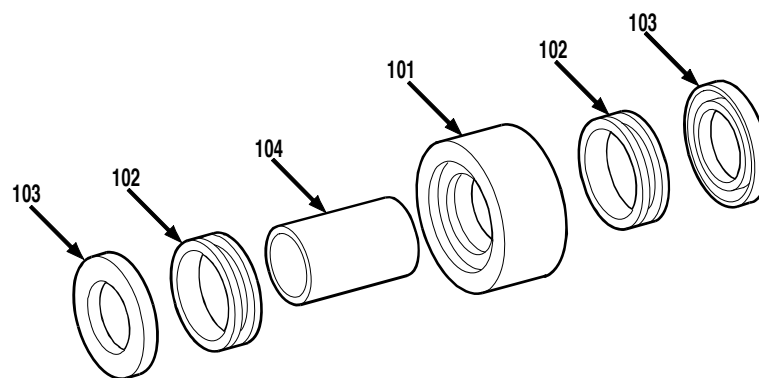
BOOM

Figure 2-3 Roller Assemblies

83625044



77325003



83625043

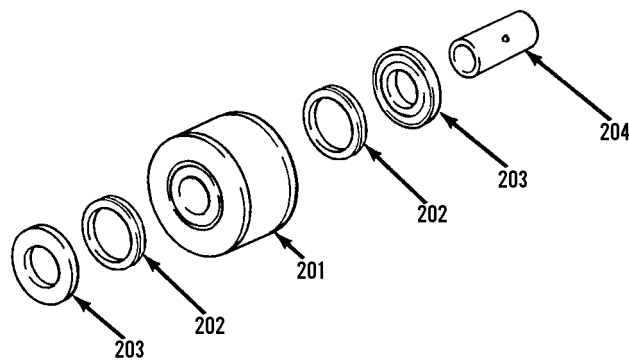




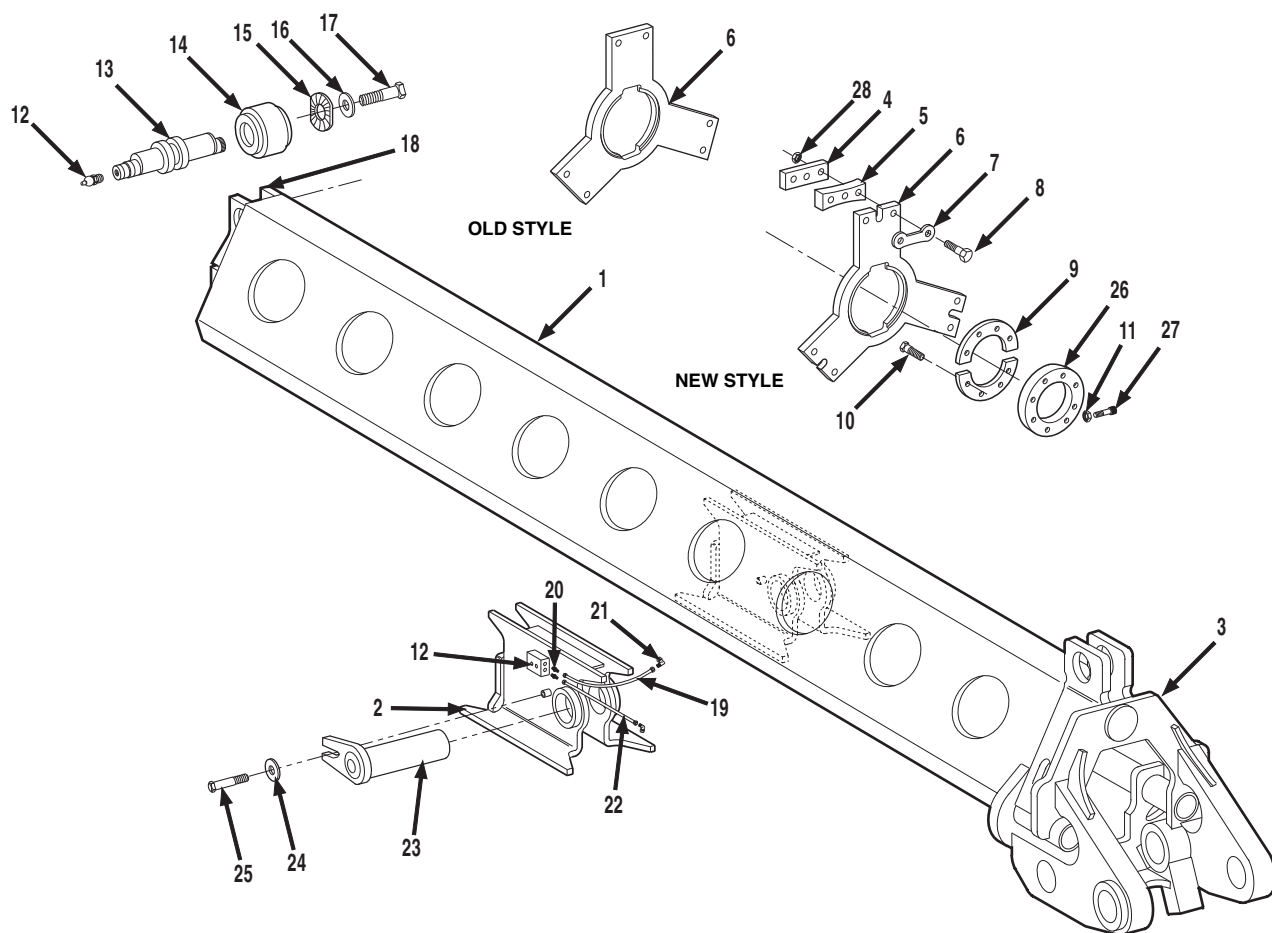
Figure 2-3 Roller Assemblies

Item	Part Number	Qty.	Description	Rev.
1	83625044	1	ROLLER ASSY, CONCAVE, (includes items 2 thru 4)	
2	83621262	2	THRUST WASHER	
3	83623005	2	FACE SEAL	
4	83621145	1	INNER BUSHING	
5 to 100	Not Used			
101	77325003	1	BOOM ROLLER ASSY, FLAT, (includes items 102 thru 104)	
102	83621262	2	THRUST WASHER	
103	83623005	2	FACE SEAL	
104	77321181	1	INNER BUSHING	
105 to 200	Not Used			
201	83625043	1	ROLLER ASSY, CONVEX, (includes items 202 thru 204)	
202	83621262	2	THRUST WASHER	
203	83623005	2	FACE SEAL	
204	83621145	1	INNER BUSHING	



BOOM

Figure 2-4 Telescope Boom Assembly



NOTE: ITEM #9 CYLINDER RETAINER, MUST BE INSTALLED BY ROTATING EACH SET OF (2) RETAINERS ONE BOLT HOLE w/EACH SUCCEEDING SET.

NOTE: IF MACHINE IS EQUIPPED w/OLD STYLE SPIDER & NEEDS SERVICED, IT MUST BE REPLACED w/NEW STYLE SPIDER (80321150), ALONG w/6 SPIDER PADS (80323039) & 3 THREADED BARS (80221280).



Figure 2-4 Telescope Boom Assembly

Item	Part Number	Qty.	Description	Rev.
1	80326021	1	TELESCOPE BOOM WELDMENT, (includes items 2, 3 & 18)	
2		1	CYLINDER MOUNT, (not available for service)	
3	80326005	1	TOOL EYE WELDMENT	
4	80421234	3	THREADED BAR	
5	80323039	6	SPIDER PAD	
6	0321081	1	SPIDER, (old style)	
	80321150	1	SPIDER, (new style), (S/N 0339330 & After)	
7	80421136	3	KEEPER	
8	88201072	6	HEX HD CAPSCREW, 1/2-13X4, GR5, (lubricate & torque to 55-60 lb-ft)	
9	80321081	6	CYLINDER RETAINER	
10	80323020	6	HEX HD CAPSCREW, 5/8-11X2, GR8, (lubricate & torque to 200-215 lb-ft)	
11	88681300	1	HEX LOCKNUT, 7/16-14	
12	88671001	5	LUBE FITTING, STRAIGHT, 1/8	
13	77321063	3	ECCENTRIC SHAFT	
14		Ref	BOOM ROLLER ASSY, CONVEX, (see Figure 2-3 for details)	
15	77121178	3	SERRATED WASHER	
16	77121225	3	WASHER	
17	83201049	3	HEX HD CAPSCREW, 1/2-13X1, GR5	
18	80326012	1	ROLLER BRACKET	
19	84718553	1	HOSE ASSY	
20	88661002	2	MALE CONNECTOR	
21	88661102	2	MALE ELBOW, 90 DEGREES	
22	84718296	1	HOSE ASSY	
23	80926014	1	PIN WELDMENT	
24	83621283	1	SPECIAL WASHER	
25	88201129	1	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5	
26	80321100	1	SPIDER RETAINER	
27	88212248	1	SOCKET HD CAPSCREW, 7/16-14X2-1/2, GR8	
28	88521008	6	HEX LOCKNUT, 7/16-14	



BOOM

Figure 2-5 Bucket Linkage

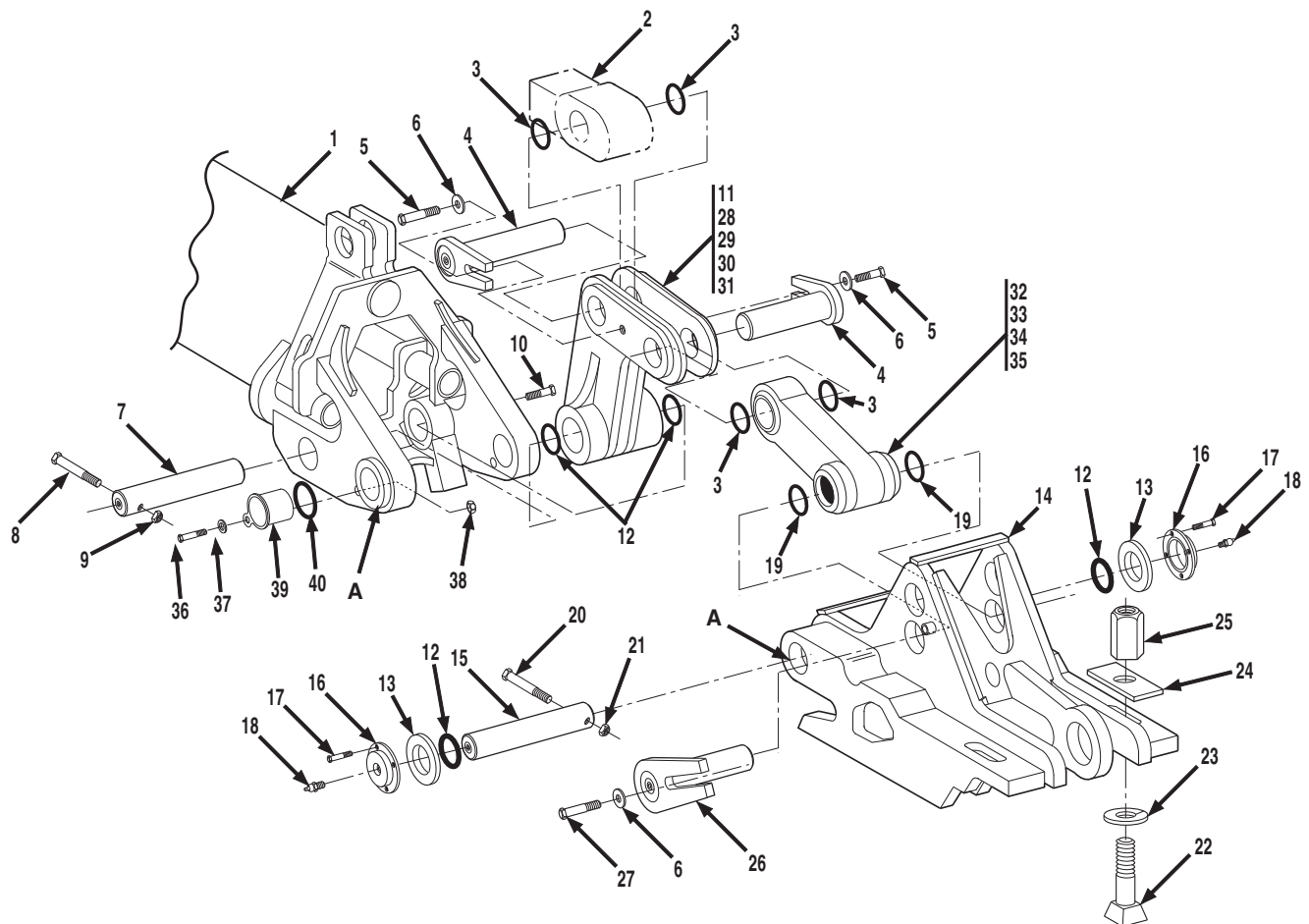




Figure 2-5 Bucket Linkage

Item	Part Number	Qty.	Description	Rev.
1		Ref	TELESCOPE BOOM ASSY, (see Figure 2-4 for details)	
2		Ref	TOOL CYLINDER ASSY, (see Figure 9-3 for details)	
3	91123029	4	O-RING	
4	80926014	3	PIN WELDMENT	
5	83201047	2	HEX HD CAPSCREW, 1/2-13X1-3/4, GR8	
6	83621283	4	SPECIAL WASHER	
7	80921074	1	PIN, (coat ends of pin w/anti-seize)	
8	83201156	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
9	88521310	1	HEX LOCKNUT, 5/8-11	
10	83201169	1	HEX HD CAPSCREW, 5/8-11X1	
11	80625003	1	CURVED LINK ASSY, (includes items 28 thru 31)	
12	83623019	4	O-RING	
13	80321039	2	SPECIAL WASHER	
	80321135	AR	SPECIAL WASHER	
	80321134	AR	SPECIAL WASHER	
14	80326016	1	BUCKET ADAPTER	
15	80421146	1	PIN	
16	80321038	2	PIN CAP	
17	83201091	8	HEX HD CAPSCREW, 3/8-16X1-1/4	
18	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
19	83623018	2	O-RING	
20	83201118	1	HEX HD CAPSCREW, 3/4-10X5-1/2, GR8	
21	88521312	1	HEX LOCKNUT, 3/4-10	
22	80926029	2	WEDGE BOLT WELDMENT	
23	88551018	2	LOCKWASHER, 1	
24	80921159	2	RECTANGLE WASHER	
25	80921174	2	HIGH NUT, 1	
26	80926012	1	PIN WELDMENT	
27	88201063	2	HEX HD CAPSCREW, 1/2-13X3/4, GR5	
28	80423042	2	BUSHING	
29	88671008	2	LUBE FITTING, STRAIGHT, 1/4	
30	83621257	2	PIN	
31	77133125	2	EXPANDER PLUG	
32	80325004	1	STRAIGHT LINK ASSY, (includes items 33 thru 35)	
33	88671008	1	LUBE FITTING, STRAIGHT, 1/4-28	
34	80423042	3	BUSHING	
35	88671025	1	LUBE FITTING, 45 DEGREES, 1/4	
36	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
37	88551011	2	LOCKWASHER, 3/8	
38	88501006	2	HEX NUT, 3/8-16	
39	80323047	2	BUSHING	
40	88591118	2	O-RING	
	80325009	AR	BOOM END KIT, (includes all items except 1, 2, 11, 14 & 28 thru 35)	

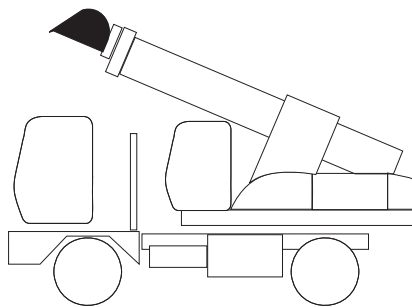


BOOM

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SECTION 3

ATTACHMENTS





ATTACHMENTS

Figure 3-1 24" & 30" Excavating Buckets

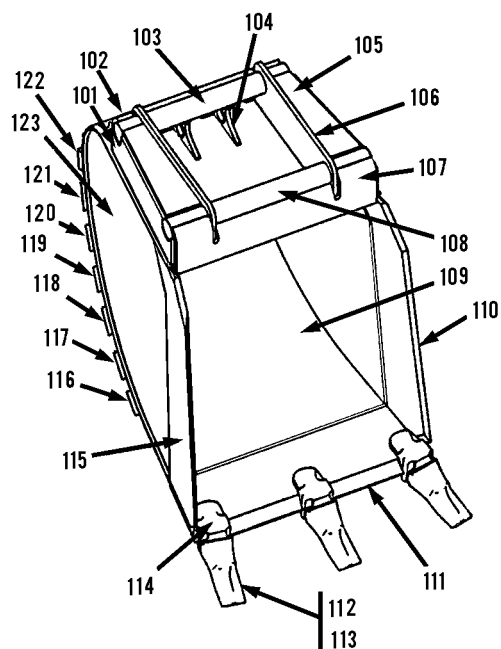
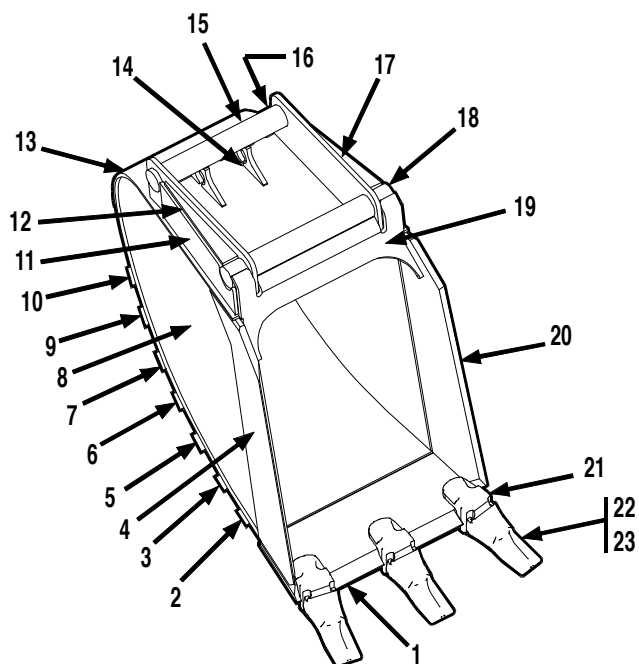




Figure 3-1 24" & 30" Excavating Buckets

Item	Part Number	Qty.	Description	Rev.
	80356014	1	24" EXCAVATING BUCKET, (includes items 1 thru 23), (.345 Cu. Yd. Struck, .383 Cu. Yd. Heaped)	
1	80351125	1	CUTTING EDGE	
2	80651113	1	WEAR STRIP	
3	83451291	1	WEAR STRIP	
4	80651465	1	CUTTING EDGE, R.H.	
5	80651222	1	WEAR STRIP	
6	80251071	1	WEAR STRIP	
7	80651092	1	WEAR STRIP	
8	80651005	2	SIDE PLATE	
9	80651091	1	WEAR STRIP	
10	80651084	1	WEAR STRIP	
11	80351134	2	END PLATE	
12	80351133	2	TOP PLATE	
13	80351128	1	BOTTOM PLATE	
14	80951057	4	INSIDE SUPPORT	
15	80351129	1	REAR PIN	
16	80351127	1	REAR STIFFENER	
17	80351294	2	OUTER SUPPORT PLATE	
18	80351130	1	FRONT PIN	
19	80351182	1	FRONT STIFFENER	
20	80651466	1	CUTTING EDGE, L.H.	
21	80353001	3	TOOTH ADAPTER	
22	80253003	3	TOOTH PIN	
23	80353002	3	TOOTH	
24 to 100	Not Used			
	80356006	1	30" EXCAVATING BUCKET, (includes items 101 thru 123), (.5 Cu. Yd. Struck, 6 Cu. Yd. Heaped)	
101	80351044	2	END PLATE	
102	80351043	1	REAR STIFFENER	
103	80351046	1	REAR PIN	
104	80951057	4	INSIDE SUPPORT	
105	80351040	2	TOP PLATE	
106	80351294	2	OUTER SUPPORT PLATE	
107	80351180	1	FRONT STIFFENER	
108	80351047	1	FRONT PIN	
109	80351045	1	BOTTOM PLATE	
110	80651466	1	CUTTING EDGE, L.H.	
111	80351040	1	CUTTING EDGE	
112	80353002	3	TOOTH	
113	80253003	3	PIN	
114	80353001	3	TOOTH ADAPTER	
115	80651465	1	CUTTING EDGE, R.H.	
116	80651068	1	WEAR STRIP	
117	80951103	1	WEAR STRIP	
118	80251062	1	WEAR STRIP	
119	83451289	1	WEAR STRIP	
120	83451290	1	WEAR STRIP	



Item	Part Number	Qty.	Description	Rev.
121	80651113	1	WEAR STRIP	
122	80651106	1	WEAR STRIP	
123	80651005	2	SIDE PLATE	

Figure 3-1 24" & 30" Excavating Buckets (Continued)

Item	Part Number	Qty.	Description	Rev.



ATTACHMENTS

Figure 3-2 36" Excavating & 30" Pavement Removal Buckets

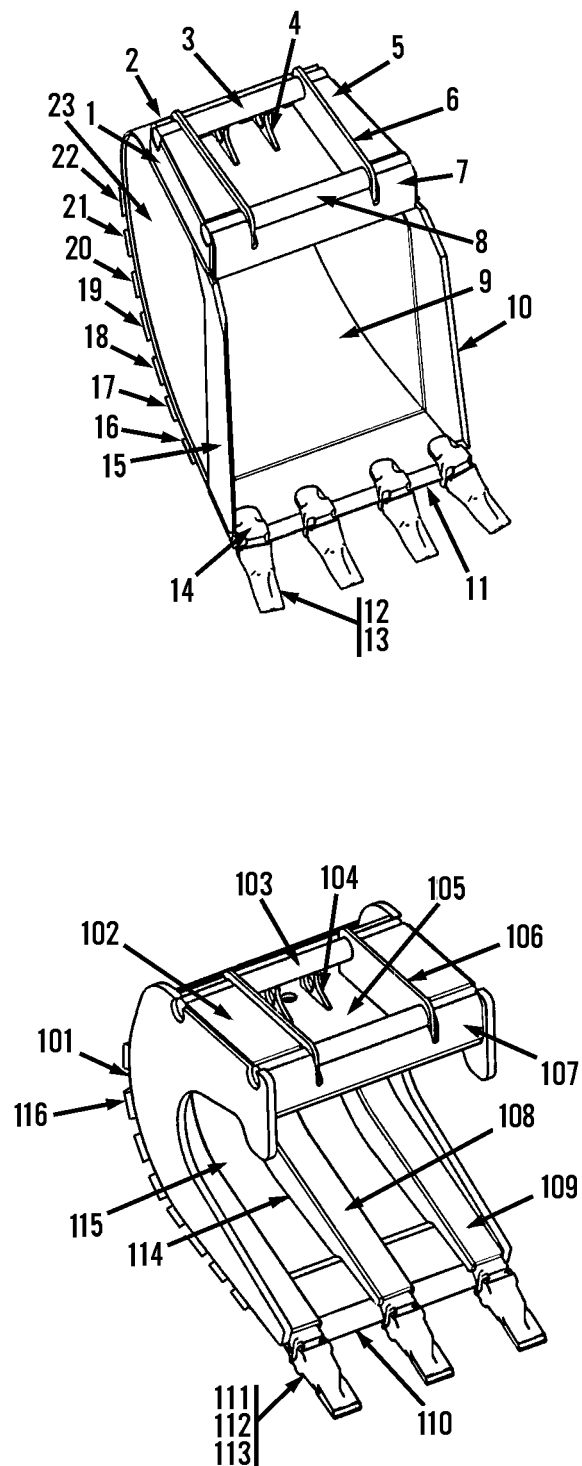




Figure 3-2 36" Excavating & 30" Pavement Removal Buckets

Item	Part Number	Qty.	Description	Rev.
	80356002	1	36" EXCAVATING BUCKET, (includes items 1 thru 23), (.5 Cu. Yd. Struck, .7 Cu. Yd. Heaped)	
1	80351012	2	END PLATE	
2	80351015	1	REAR STIFFENER	
3	80351017	1	REAR PIN	
4	80951057	4	INSIDE SUPPORT	
5	80351011	2	TOP PLATE	
6	80351294	2	OUTER SUPPORT PLATE	
7	80351014	1	FRONT STIFFENER	
8	80351018	1	FRONT PIN	
9	80351016	1	BOTTOM PLATE	
10	80651466	1	CUTTING EDGE, L.H.	
11	80351019	1	CUTTING EDGE	
12	80353002	4	TOOTH	
13	80253003	4	PIN	
14	80353001	4	TOOTH ADAPTER	
15	80651465	1	CUTTING EDGE, R.H.	
16	80651121	1	WEAR STRIP	
17	80651071	1	WEAR STRIP	
18	80251014	1	WEAR STRIP	
19	80251013	1	WEAR STRIP	
20	80651069	1	WEAR STRIP	
21	80651068	1	WEAR STRIP	
22	80951105	1	WEAR STRIP	
23	80651005	2	SIDE PLATE	
24 to 100	Not Used			
	80356003	1	30" PAVEMENT REMOVAL BUCKET, (includes items 101 thru 116)	
101	80351021	2	END PLATE	
102	80351025	2	STIFFENER	
103	80351028	2	PIN	
104	80951057	4	INSIDE SUPPORT	
105	80351024	1	TOP PLATE	
106	80351294	2	OUTER SUPPORT PLATE	
107	80351023	2	PIN STIFFENER	
108	80351026	1	TOP INSIDE RUNNER	
109	80351027	2	TOP OUTSIDE RUNNER	
110	80351022	1	CUTTING EDGE	
111	80353003	3	TOOTH ADAPTER	
112	80353004	3	TOOTH	
113	80353005	3	PIN	
114	80351029	4	RUNNER	
115	80351020	1	BOTTOM PLATE	
116	80251014	8	WEAR STRIP	



ATTACHMENTS

Figure 3-3 60" & 66" Ditching Buckets

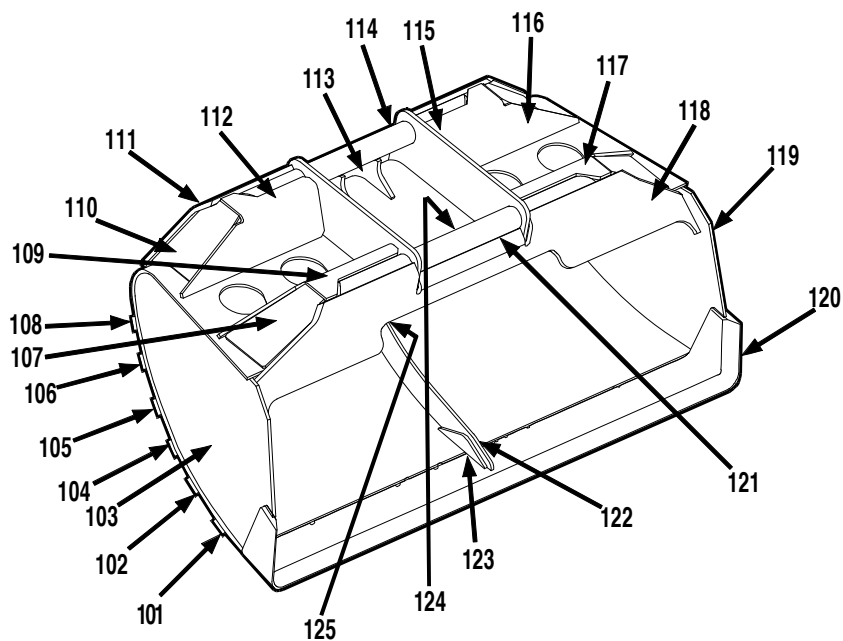
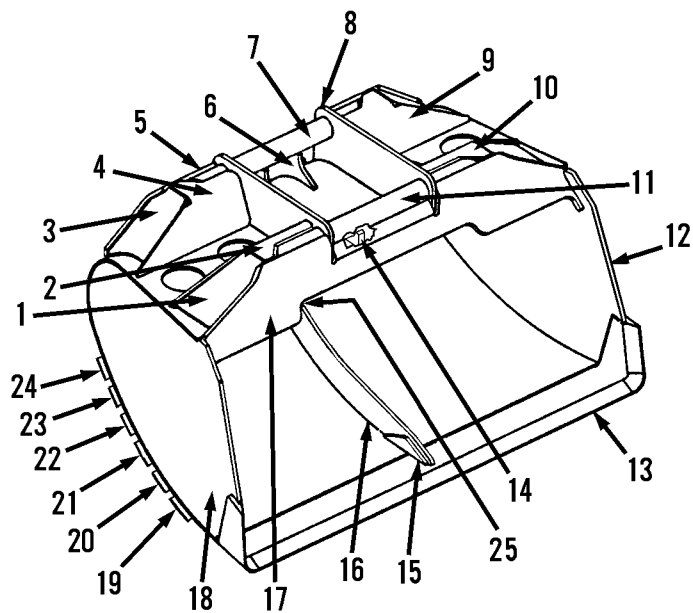




Figure 3-3 60" & 66" Ditching Buckets

Item	Part Number	Qty.	Description	Rev.
	80356004	1	60" DITCHING BUCKET, (includes items 1 thru 25), (.6 Cu. Yd. Struck, .9 Cu. Yd. Heaped)	
1	80351038	2	CAP PLATE	
2	80351008	1	BUCKET STIFFENER	
3	80351030	2	REAR END CAP	
4	80351010	1	BUCKET STIFFENER	
5	80351033	1	REAR STIFFENER	
6	80351031	2	REAR INNER SUPPORT	
7	80951101	1	PIN	
8	80351295	2	OUTER REAR SUPPORT	
9	80351009	1	BUCKET STIFFENER	
10	80351007	1	BUCKET STIFFENER	
11	80651054	1	PIN	
12	80351037	2	SIDE PLATE	
13	80653019	1	CUTTING EDGE	
14	80951057	2	INSIDE SUPPORT	
15	80651073	2	WEAR PLATE	
16	80351036	1	RIB STIFFENER	
17	80351034	1	FRONT STIFFENER	
18	80351035	1	BOTTOM PLATE	
19	80651050	1	WEAR STRIP	
20	80951191	1	WEAR STRIP	
21	80951189	1	WEAR STRIP	
22	80651051	1	WEAR STRIP	
23	83451296	1	WEAR STRIP	
24	80651052	1	WEAR STRIP	
25	80951054	2	GUSSET	
26 to 100	Not Used			
	80356019	1	66" DITCHING BUCKET, (includes items 101 thru 125), (.517 Cu. Yd. Struck, .625 Cu. Yd. Heaped)	
101	80351161	1	WEAR STRIP	
102	80951137	1	WEAR STRIP	
103	80351156	1	BOTTOM PLATE	
104	80351160	1	WEAR STRIP	
105	80351159	1	WEAR STRIP	
106	80951192	1	WEAR STRIP	
107	80351038	2	CAP PLATE	
108	80951191	1	WEAR STRIP	
109	80351147	1	FRONT STIFFENER, L.H.	
110	80351151	2	REAR END CAP	
111	80351154	1	REAR STIFFENER	
112	80351149	1	REAR STIFFENER, L.H.	
113	80351152	2	REAR INNER SUPPORT	
114	80951434	1	PIN	
115	80351296	2	OUTER SUPPORT PLATE	
116	80351150	1	REAR STIFFENER, R.H.	
117	80351148	1	FRONT STIFFENER, R.H.	
118	80351155	1	FRONT STIFFENER	



ATTACHMENTS

Figure 3-3 60" & 66" Ditching Buckets (Continued)

Item	Part Number	Qty.	Description	Rev.
119	80351157	2	SIDE PLATE	
120	80653018	1	CUTTING EDGE	
121	80651057	1	PIN	
122	80351105	1	RIB STIFFENER	
123	80651073	2	WEAR PLATE	
124	80951057	2	INSIDE SUPPORT	
125	80951054	2	GUSSET	

Figure 3-3 60" & 66" Ditching Buckets (Continued)

Item	Part Number	Qty.	Description	Rev.



ATTACHMENTS

Figure 3-4 8' Grading Blade

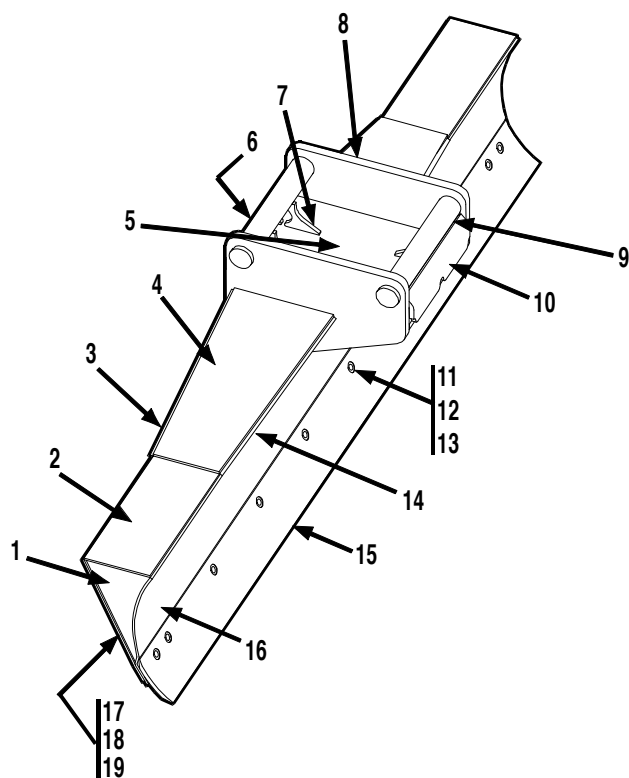




Figure 3-4 8' Grading Blade

Item	Part Number	Qty.	Description	Rev.
1	80351173	4	RIB	
2	80351166	2	TOP PLATE	
3	80351168	2	BACK GUSSET PLATE	
4	80351169	2	PLATE	
5	80351170	1	CENTER TOP PLATE	
6	80351162	1	FILLER PLATE	
7	80951057	4	INSIDE SUPPORT	
8	80351172	2	SIDE PLATE	
9	80951181	2	PIN	
10	80351171	2	PIN STIFFENER	
11	88421038	10	PLOW BOLT, 5/8-11X2	
12	88501010	10	HEX NUT, 5/8-11	
13	88551015	10	LOCKWASHER, 5/8	
14	80351167	2	GUSSET PLATE	
15	24131047	1	CUTTING EDGE	
16	24131039	1	MOLD BOARD	
17	80351165	1	L.H. SIDE BACK PLATE	
18	80351164	1	R.H. SIDE BACK PLATE	
19	80351163	1	CENTER BACK PLATE	



ATTACHMENTS

Figure 3-5 Single Tooth Ripper

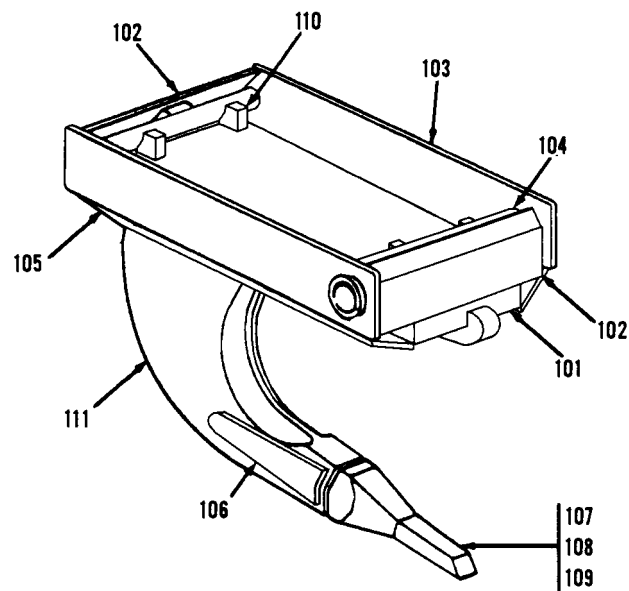




Figure 3-5 Single Tooth Ripper

Item	Part Number	Qty.	Description	Rev.
	80356016	1	SINGLE TOOTH RIPPER, (includes all items)	
1	80351176	1	BASE PLATE	
2	80351178	2	PIN STIFFENER	
3	80351175	2	PIN SUPPORT PLATE	
4	80351181	2	PIN	
5	80351177	2	GUSSET	
6	80351179	2	TOOTH GUSSET	
7	80953004	1	TOOTH SHANK	
8	80953005	1	TOOTH	
9	80953006	1	TOOTH LOCK	
10	80951057	4	INSIDE SUPPORT PLATE	
11	80351174	1	RIPPER PLATE	



ATTACHMENTS

Figure 3-6 4' Boom Extension

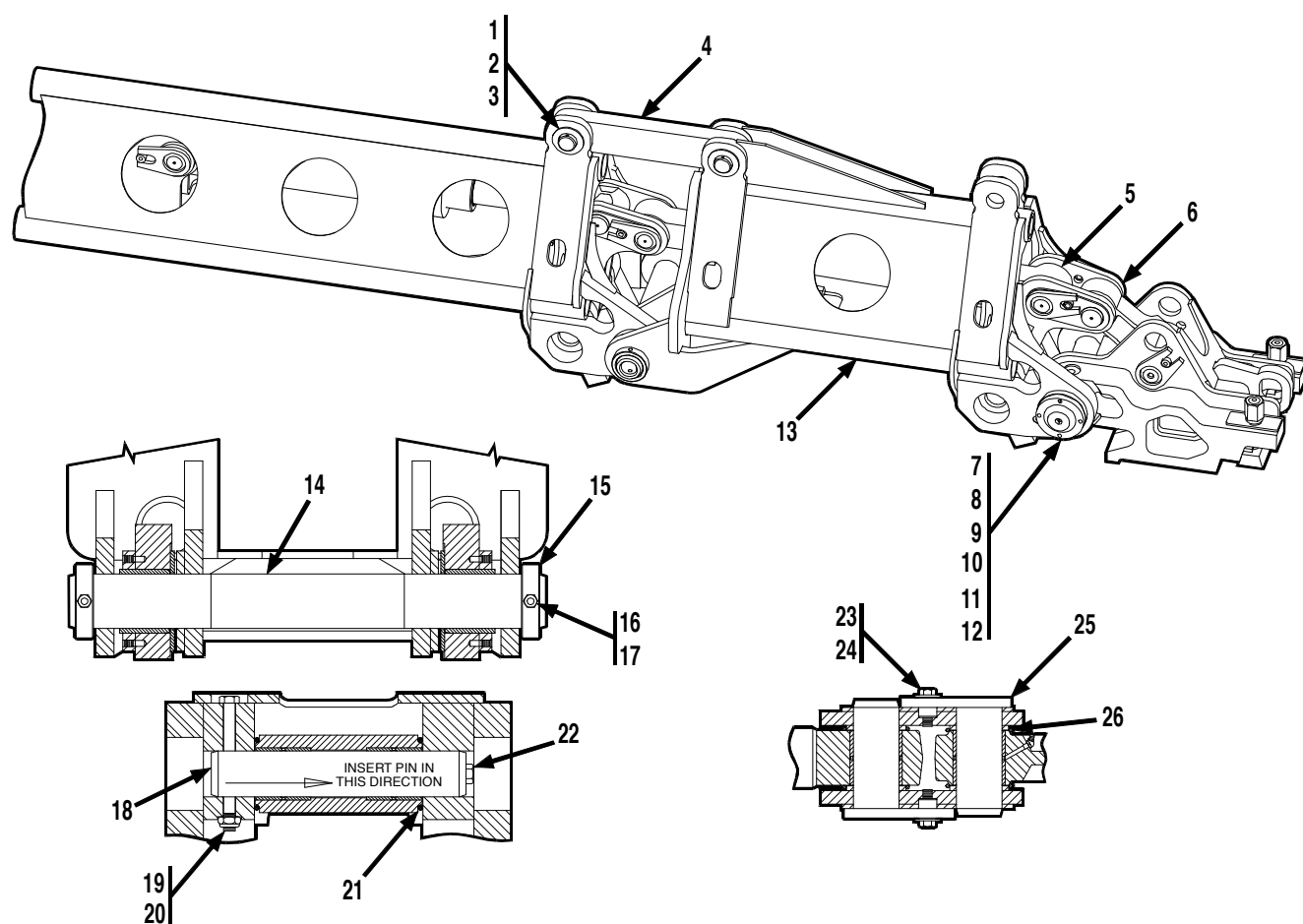




Figure 3-6 4' Boom Extension

Item	Part Number	Qty.	Description	Rev.
	80355001	1	4' BOOM EXTENSION, (includes all items)	
1	80651140	2	PIN	
2	80651141	4	PLATE	
3	88631351	4	COTTER PIN, 1/4X2-1/2	
4	80651097	1	LINK	
5	80656078	1	PUSH ROD WELDMENT	
6	80625017	1	CURVED LINK ASSY	
7	80323047	2	BUSHING	
8	80321039	2	WASHER	
9	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
10	88501006	2	HEX NUT, 3/8-16	
11	88551011	2	LOCKWASHER, 3/8	
12	88591118	2	O-RING	
13	80356005	1	4' BOOM EXTENSION WELDMENT	
14	80651098	1	PIN	
15	80651100	2	COLLAR	
16	83481673	2	HEX HD CAPSCREW, 3/8-16X4-3/4	
17	88521206	2	HEX LOCKNUT, 3/8-16	
18	80921074	1	PIN	
19	83201156	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
20	88521310	1	HEX LOCKNUT, 5/8-11	
21	83623019	2	O-RING	
22	83201169	1	HEX HD CAPSCREW, 5/8-11X1	
23	83201129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8	
24	83621283	2	SPECIAL WASHER	
25	80926014	2	PIN WELDMENT	
26	91123029	4	O-RING	



ATTACHMENTS

Figure 3-7 Fixed Thumb Grapple Assembly

1. INSTALL PIVOTING ARM, (item 7), ON BUCKET ADAPTER
2. POSITION END OF BOOM w/PIVOTING ARM, (item 7), THROUGH STATIONARY ARM, (item 8), & ALIGN LOWER BORES.
3. INSTALL GRAPPLE PIN, (item 4), INTO LOWER BORES OF STATIONARY ARM, (item 8), & INTO BORES OF TOOL EYE AT END OF BOOM. TO FIX PIN, (item 4), INTO POSITION, USE HARDWARE, (items 5 & 6).
4. INSTALL PIN, (item 2), THROUGH UPPER BORES OF STATIONARY ARM, (item 8), & TOP OF TOOL EYE AT END OF BOOM. TO FIX PIN, (item 2), INTO POSITION, USE HARDWARE, (items 1 & 3), AT BOTH ENDS.

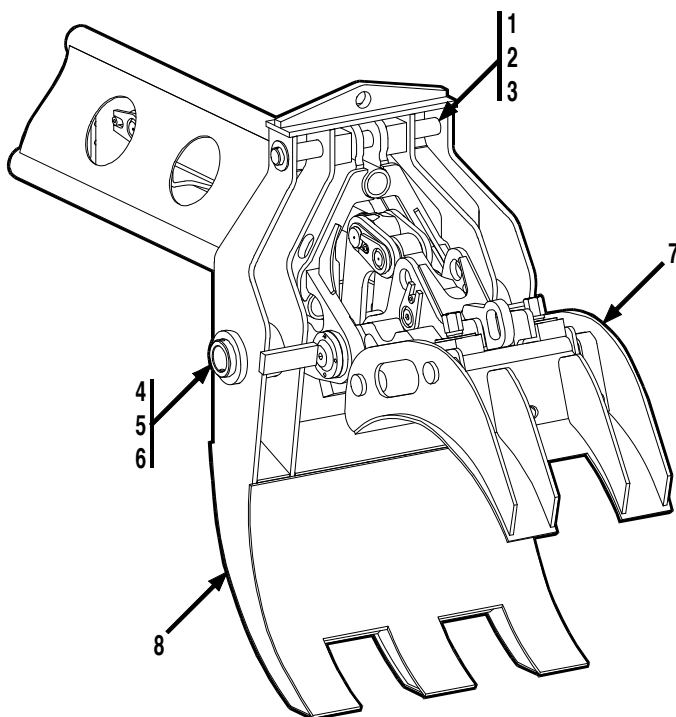




Figure 3-7 Fixed Thumb Grapple Assembly

Item	Part Number	Qty.	Description	Rev.
	80355003	1	FIXED THUMB GRAPPLE ASSY, (includes all items)	
1	80651141	2	PLATE	
2	80651479	1	PIN	
3	88631351	2	COTTER PIN, 1/4X2-1/2	
4	80351146	2	GRAPPLE PIN	
5	83201156	2	HEX HD CAPSCREW, 5/8-11X7, GR5	
6	88521310	2	HEX LOCKNUT, 5/8-11	
7	80356017	1	GRAPPLE PIVOTING ARM	
8	80356018	1	GRAPPLE STATIONARY ARM	



ATTACHMENTS

Figure 3-8 Limb Lopper

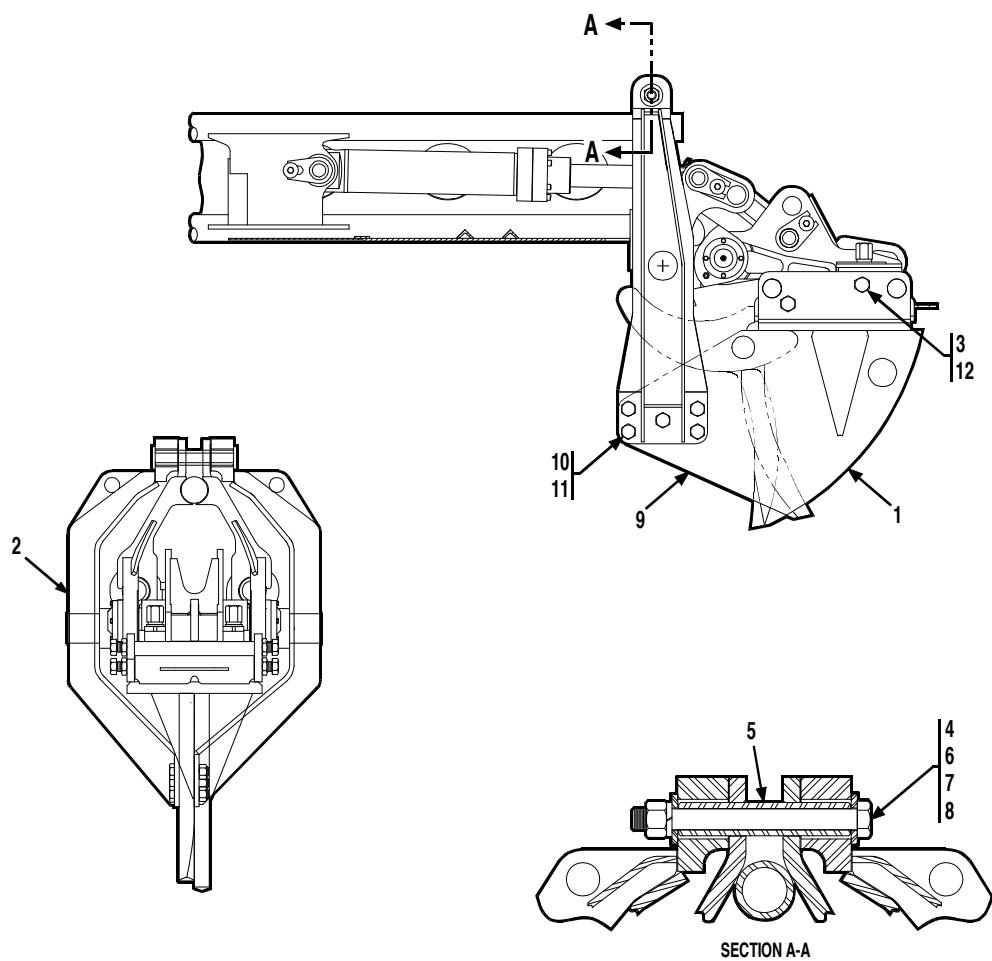




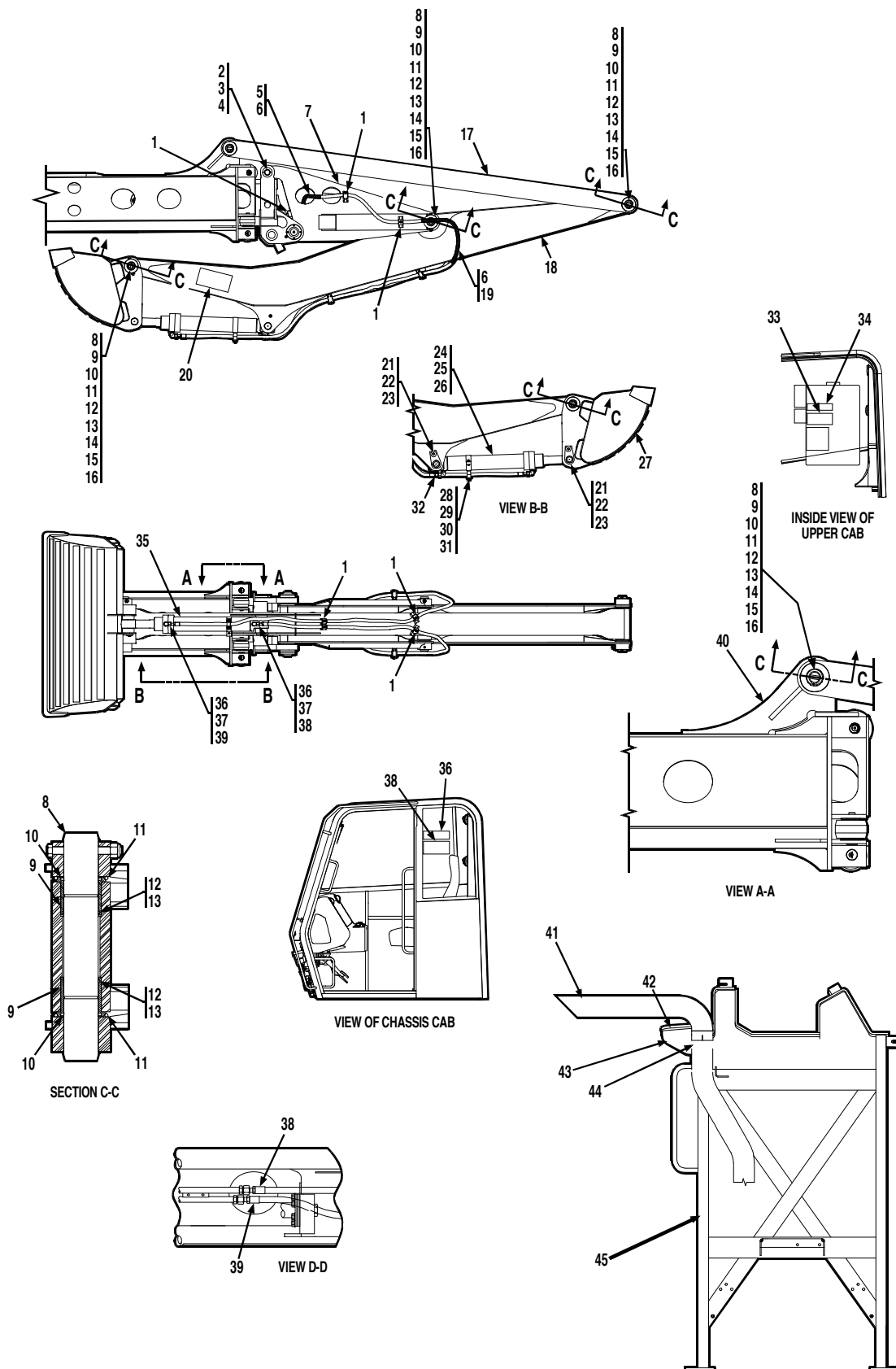
Figure 3-8 Limb Lopper

Item	Part Number	Qty.	Description	Rev.
	80355015	1	LIMB LOPPER ASSY, (includes all items)	
1	80356044	1	LOPPER BLADE WELDMENT	
2	80356045	1	BRACKET SET	
3	88501420	4	HEX JAM NUT, 1-1/4-12	
4	80651568	2	WASHER	
5	80651567	1	SLEEVE	
6	88681304	1	HEX HD CAPSCREW, 1-1/4-7X13-1/2	
7	88501020	1	HEX NUT, 1-1/4-7	
8	88551020	1	LOCKWASHER, 1-1/4	
9	80651566	1	BOTTOM LOPPER BLADE	
10	88681303	5	HEX HD CAPSCREW, 1-1/4-7X5, GR8	
11	88521020	5	STOVER LOCKNUT, 1-1/4-7	
12	88681305	4	HEX HD CAPSCREW, 1-1/4-12X3, GR8	



ATTACHMENTS

Figure 3-9 Telestick Adapter Installation



PAE3860



Figure 3-9 Telestick Adapter Installation

Item	Part Number	Qty.	Description	Rev.
	80385089	1	TELESTICK ADAPTER INSTALLATION, (includes all items)	
1	90205792	10	CUSHION CLAMP, 1-1/4	
2	80651140	1	PIN	
3	80651141	2	WASHER	
4	88631351	2	COTTER PIN1/4X2-1/2	
5	83953053	2	SLEEVE, 25"	
6	90027187	2	TY-RAP	
7	80386084	1	STICK ADAPTER WELDMENT	
8	80381361	4	PIN	
9	83621245	6	BUSHING	
10	83621035	8	LIP SEAL	
11	83623019	8	SEAL	
12	88591112	8	O-RING	
13	83621027	8	BACK-UP RING	
14	88671008	8	LUBE FITTING, STRAIGHT,	
15	83481645	4	HEX HD CAPSCREW, 5/8-11X6	
16	88521310	4	HEX LOCKNUT, 5/8-11	
17	80386083	1	FIXED LINK WELDMENT	
18	80386085	1	TELESTICK WELDMENT	
19	80681171	2	SLEEVE, 16"	
20	83601011	2	DANGER DECAL	
21	80386086	2	PIN WELDMENT	
22	83201129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8	
23	83621283	2	SPECIAL WASHER	
24	80386090	1	CYLINDER CLAMP	
25	88201038	1	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
26	88521306	1	HEX LOCKNUT, 3/8-16	
27	80386088	1	PIN-ON DITCHING BUCKET, 66"	
28	83251289	1	CLAMP SET	
29	83251291	1	COVER PLATE	
30	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
31	88551011	2	LOCKWASHER, 3/8	
32	88671022	1	LUBE FITTING,90 DEGREES, 1/8	
33	80383343	2	TELESTICK DECAL	
34	80383373	2	DECAL	
35	80005197	Ref	TOOL CYLINDER, (see Figure 9-3 for details)	
36	88662332	2	ELBOW, 90 DEGREES, (includes item 37)	
37	88591207	2	O-RING	
38	84719725	1	HOSE ASSY	
39	84718488	1	HOSE ASSYY	
40	80386087	1	LUG WELDMENT	
41	80383344	1	TAIL PIPE	
42	80381378	1	TOP PLATE	
43	80381379	1	GUSSET	
44	83713009	1	SEAL CLAMP	
45	80386089	1	TELESTICK BOOM REST	



ATTACHMENTS

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SECTION 4

ENGINE & ATTACHING PARTS

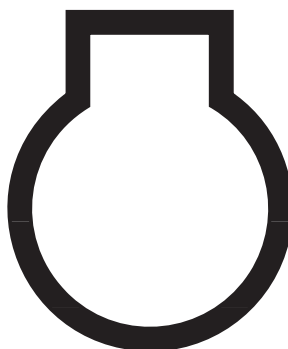
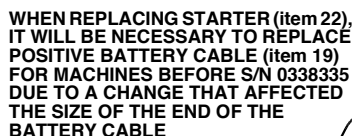




Figure 4-1 Engine Assembly



**Figure 4-1 Engine Assembly**

Item	Part Number	Qty.	Description	Rev.
	80375007	1	POWER UNIT ASSY, (includes all items)	
1	80363079	1	ENGINE HARNESS	
2	24601710	3	SUPPORT CLAMP	
3	77143004	2	WHIZ-LOK SCREW, 5/16-18X1-1/4	
4	77143006	2	WHIZ-LOK NUT, 5/16-18	
5	80373043	1	DEERE ENGINE	
6	80376033	1	FRONT ENGINE MOUNT, L.H.	
7	80376015	1	FRONT ENGINE MOUNT, R.H.	
8	83191043	4	HEX HD CAPSCREW, M16-2X30, GR8, (loctite & torque to 166-181 lb-ft)	
9	83783030	4	LOCKWASHER, M16	
10		36"	FUEL HOSE, 3/8	
11	86883106	1	HOSE CLAMP	
12	80476003	2	REAR ENGINE MOUNT	
13	83191032	8	HEX HD CAPSCREW, M12-1.75X35, GR8, (loctite & torque to 66-76 lb-ft)	
14	83191010	8	LOCKWASHER, M12	
15	85941016	2	SUPPORT CLAMP	
16		Ref	MAIN HYDRAULIC PUMP ASSY, (see Figure 9-8 for details)	
17	83191021	13	HEX HD CAPSCREW, M10-1.5X30, GR8, (loctite & torque to 38-48 lb-ft)	
18	83191013	24	LOCKWASHER, M10	
19	85941016	1	SUPPORT CLAMP	
20	83191038	2	HEX HD CAPSCREW, M10-1.5X20, GR8, (loctite & torque to 38-48 lb-ft)	
21	80373099	1	UPPER RADIATOR HOSE	
22	85071128	2	HOSE CLAMP	
23	80371195	1	FAN SPACER	
24	83191081	4	SOCKET HD CAPSCREW, M10-1.5X70, GR8	
25	80973108	1	ALTERNATOR, (includes regulator)	
	80373114	1	REGULATOR	
26	80373047	1	ADAPTER	
27	84712749	1	BRASS ELBOW	
28	80373100	1	LOWER RADIATOR HOSE	
29		Ref	GEAR PUMP ASSY, (see Figure 9-29 for details)	
30	83191040	5	SOCKET HD CAPSCREW, M10-1.5X30, GR8, (loctite & torque to 38-48 lb-ft)	
31	86671112	1	GASKET	
32	80373046	1	REDUCER BUSHING	
33	91083155	1	TRUCK VALVE	
34	77383540	1	RESTRICTOR FITTING	
35	80373026	1	NEGATIVE BATTERY CABLE	
36	88561005	1	FLAT WASHER, 7/16	
37	91083218	1	FUEL STRAINER	
38	80373002	1	PUMP COUPLER ASSY, (includes items 112 thru 118)	
39	86883106	2	HOSE CLAMP	
40	91413104	1	STARTER MOTOR	
41	80371026	1	MUFFLER BRACKET	
42	88561110	1	FLAT WASHER, 5/16	
43	77133089	2	MINI-CHECK COUPLING, (includes item 44)	
44	83763056	2	VITON O-RING, (lubricate lightly)	
45	80273034	1	BRANCH TEE	
46	88662301	1	CONNECTOR, (includes item 47)	
47	88591204	2	O-RING	



ENGINE & ATTACHING PARTS

Before S/N 0210017528

Figure 4-1 Engine Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.
48	88662440	1	CONNECTOR, (includes item 47)	
49	80371106	2	SPACER	
50	83201126	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR8, (loctite & torque to 40-45 lb-ft)	
51	90027470	2	HARDENED WASHER, 3/8	
52	80376019	1	EXHAUST SHIELD WELDMENT	
53	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
54	80373025	1	PUSH-LOK FITTING	
55	88211068	8	SOCKET HD CAPSCREW, 3/8-16X5/8, GR8, (loctite & torque to 40-45 lb-ft)	
56	80371093	1	MUFFLER COVER	
57	77143003	7	WHIZ-LOK SCREW, 5/16-18X5/8	
58	88662312	1	CONNECTOR, (includes item 59)	
59	88591207	1	O-RING	
60	84719338	1	HOSE ASSY	
61	88662355	1	SWIVEL NUT BRANCH TEE	
62	80333047	1	FLANGE ELBOW, 45 DEGREES	
63	84712739	2	FLANGE HALF	
64	88201068	4	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
65	88551013	4	LOCKWASHER, 1/2	
66	91083339	1	O-RING	
67	88743000	1	MALE ADAPTER, 1/8X1/4 TUBE	
68	91143122	2	SUPPORT CLAMP	
69	91403293	2	HEX HD CAPSCREW, M14-2X25	
70	83191014	2	LOCKWASHER, M14	
71	80376018	1	MUFFLER SHIELD WELDMENT	
72	80373161	1	MUFFLER	
73	86883127	3	MUFFLER CLAMP, 4"	
74	77143015	6	WHIZ-LOK NUT, 3/8-16	
75	80373074	1	EXHAUST PIPE	
76	91033246	1	OIL PRESSURE SENDER	
77	80371224	1	OIL SENDER MOUNT BRACKET	
78	84718130	1	HOSE ASSY	
79	88743021	1	MALE ELBOW, 45 DEGREES, 1/8X1/4 TUBE	
80	91403216	1	V-BAND CLAMP	
81	83191021	1	HEX HD CAPSCREW, M10-1.5X30, GR8	
82	83191013	1	LOCKWASHER, M10	
83	80373034	1	THROTTLE SPRING	
84	80376009	1	MOUNT BRACKET	
85	83783042	2	HEX HD CAPSCREW, M12-1.75X25, GR8	
86	83191010	4	LOCKWASHER, M12	
87	80363019	1	STM MOTOR, (includes mounting hardware)	
88	83191032	2	HEX HD CAPSCREW, M12-1.75X35, GR8, (loctite & torque to 66-76 lb-ft)	
89	80371043	1	THREADED LINKAGE	
90	80373029	2	QUICK DISCONNECT BALL JOINT	
91	88501304	4	HEX NUT, 1/4-28	
92	80373024	1	WATER TEMPERATURE SENDER	
93	80374015	1	FAN BELT	
94	83953265	1	FAN	
95	88201036	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
96	88551011	12	LOCKWASHER, 3/8	

**Figure 4-1 Engine Assembly (Continued)**

Item	Part Number	Qty.	Description	Rev.
97	77383377	1	STARTER SOLENOID	
98	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
99	88521304	2	HEX LOCKNUT, 1/4-20	
100	80373114	1	POSITIVE BATTERY CABLE	
101	80333180	1	AIR CONDITIONER PULLEY	
102	91333003	4	SHOCK MOUNT	
103	80371089	4	FRONT LIMIT PLATE	
104	0682440	4	HEX HD CAPSCREW, 7/8-9X5, (torque to 225-250 lb-ft)	
105	88521214	4	HEX LOCKNUT, 7/8-9	
106	80373049	4	REBOUND WASHER	
107	80374007	8	NEOPRENE INSERT	
108	80374008	8	THREADED BUSHING	
109	80374009	8	HEX HD CAPSCREW	
110	80374010	1	HUBBARD PLUG	
111	80374011	1	BACKING PLATE	
112	80374005	1	FLYWHEEL PLATE	
113	80374006	1	COUPLING PLATE	
	80304002	1	ENGINE FILTER KIT, (includes all items below)	
	80373091	1	AIR FILTER	
	80373092	1	SAFETY FILTER, (air)	
	80374014	1	FUEL FILTER, (secondary)	
	91083218	1	FUEL FILTER, (primary)	
	91404005	1	OIL FILTER	



ENGINE & ATTACHING PARTS

S/N 0210017528 thru 0210018092
& 3300000666 & After

Figure 4-1 Engine Assembly

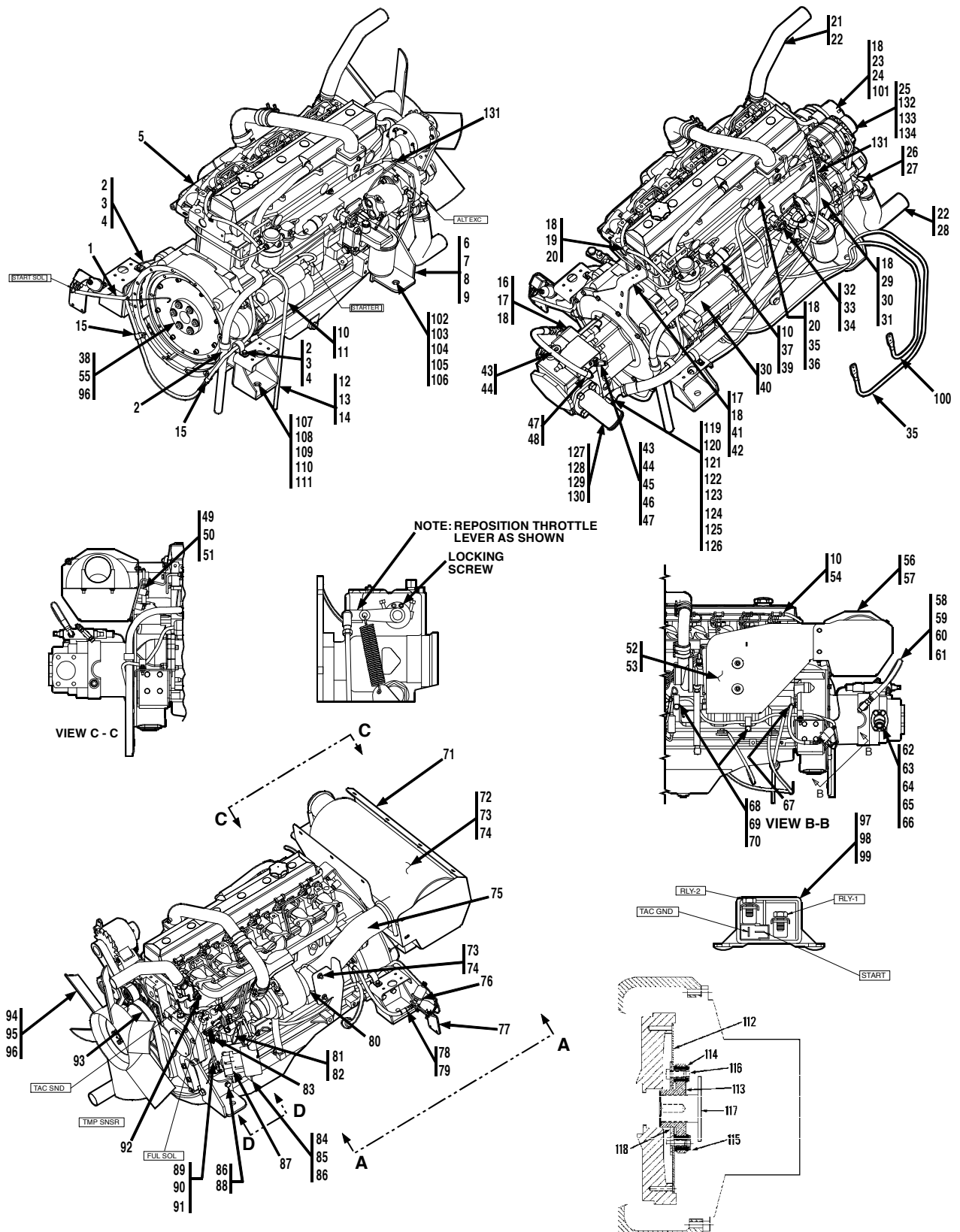




Figure 4-1 Engine Assembly

Item	Part Number	Qty.	Description	Rev.
	80375007	1	POWER UNIT ASSY, (includes all items except items 102 thru 111)	
1	80363219	1	ENGINE HARNESS	
2	24601710	3	SUPPORT CLAMP	
3	77143004	2	WHIZ-LOK SCREW, 5/16-18X1-1/4	
4	77143006	2	WHIZ-LOK NUT, 5/16-18	
5	80373043	1	DEERE ENGINE	
6	80376033	1	FRONT ENGINE MOUNT, L.H.	
7	80376015	1	FRONT ENGINE MOUNT, R.H.	
8	83191043	4	HEX HD CAPSCREW, M16-2X30, GR8, (loctite & torque to 166-181 lb-ft)	
9	83783030	4	LOCKWASHER, M16	
10		36"	FUEL HOSE, 3/8	
11	86883106	1	HOSE CLAMP	
12	80476003	2	REAR ENGINE MOUNT	
13	83191032	8	HEX HD CAPSCREW, M12-1.75X35, GR8, (loctite & torque to 66-76 lb-ft)	
14	83191010	8	LOCKWASHER, M12	
15	85941016	2	SUPPORT CLAMP	
16		Ref	MAIN HYDRAULIC PUMP ASSY, (see Figure 9-8 for details)	
17	83191021	13	HEX HD CAPSCREW, M10-1.5X30, GR8, (loctite & torque to 38-48 lb-ft)	
18	83191013	21	LOCKWASHER, M10	
19	85941016	1	SUPPORT CLAMP	
20	83191038	2	HEX HD CAPSCREW, M10-1.5X20, GR8, (loctite & torque to 38-48 lb-ft)	
21	80373099	1	UPPER RADIATOR HOSE	
22	85071128	2	HOSE CLAMP	
23	80371195	1	FAN SPACER	
24	83191081	4	SOCKET HD CAPSCREW, M10-1.5X70, GR8	
25	80474037	1	ALTERNATOR	
26	80373047	1	ADAPTER	
27	84712749	1	BRASS ELBOW	
28	80373100	1	LOWER RADIATOR HOSE	
29		Ref	GEAR PUMP ASSY, (see Figure 9-29 for details)	
30	80474036	3	CAPSCREW	
31	86671112	1	GASKET	
32	80373046	1	REDUCER BUSHING	
33	91083155	1	TRUCK VALVE	
34	77383540	1	RESTRICTOR FITTING	
35	80373026	1	NEGATIVE BATTERY CABLE	
36	88561005	1	FLAT WASHER, 7/16	
37	91083218	1	FUEL STRAINER	
38	80373002	1	PUMP COUPLER ASSY, (includes items 112 thru 118)	
39	86883106	2	HOSE CLAMP	
40	7026921	1	STARTER MOTOR	
41	80371026	1	MUFFLER BRACKET	
42	88561110	1	FLAT WASHER, 5/16	
43	77133089	2	MINI-CHECK COUPLING, (includes item 44)	
44	83763056	2	VITON O-RING, (lubricate lightly)	
45	80273034	1	BRANCH TEE	
46	88662301	1	CONNECTOR, (includes item 47)	
47	88591204	2	O-RING	
48	88662440	1	CONNECTOR, (includes item 47)	



ENGINE & ATTACHING PARTS

S/N 0210017528 thru 0210018092
& 3300000666 & After

Figure 4-1 Engine Assembly

Item	Part Number	Qty.	Description	Rev.
49	80371106	2	SPACER	
50	83201126	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR8, (loctite & torque to 40-45 lb-ft)	
51	90027470	2	HARDENED WASHER, 3/8	
52	80376019	1	EXHAUST SHIELD WELDMENT	
53	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
54	80373025	1	PUSH-LOK FITTING	
55	88211068	8	SOCKET HD CAPSCREW, 3/8-16X5/8, GR8, (loctite & torque to 40-45 lb-ft)	
56	80371093	1	MUFFLER COVER	
57	77143003	7	WHIZ-LOK SCREW, 5/16-18X5/8	
58	88662312	1	CONNECTOR, (includes item 59)	
59	88591207	1	O-RING	
60	84719338	1	HOSE ASSY	
61	88662355	1	SWIVEL NUT BRANCH TEE	
62	80333047	1	FLANGE ELBOW, 45 DEGREES	
63	84712739	2	FLANGE HALF	
64	88201068	4	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
65	88551013	4	LOCKWASHER, 1/2	
66	91083339	1	O-RING	
67	88743000	1	MALE ADAPTER, 1/8X1/4 TUBE	
68	91143122	2	SUPPORT CLAMP	
69	91403293	2	HEX HD CAPSCREW, M14-2X25	
70	83191014	2	LOCKWASHER, M14	
71	80376018	1	MUFFLER SHIELD WELDMENT	
72	80373161	1	MUFFLER	
73	86883127	3	MUFFLER CLAMP, 4"	
74	77143015	6	WHIZ-LOK NUT, 3/8-16	
75	80373074	1	EXHAUST PIPE	
76	91033246	1	OIL PRESSURE SENDER	
77	80371224	1	MOUNT BRACKET	
78	84718130	1	HOSE ASSY	
79	88743021	1	MALE ELBOW, 45 DEGREES, 1/8X1/4 TUBE	
80	91403216	1	V-BAND CLAMP	
81	83191021	1	HEX HD CAPSCREW, M10-1.5X30, GR8	
82	83191013	1	LOCKWASHER, M10	
83	80373034	1	THROTTLE SPRING	
84	80376009	1	MOUNT BRACKET	
85	83783042	2	HEX HD CAPSCREW, M12-1.75X25, GR8	
86	83191010	4	LOCKWASHER, M12	
87	80363019	1	STM MOTOR, (includes mounting hardware)	
88	83191032	2	HEX HD CAPSCREW, M12-1.75X35, GR8, (loctite & torque to 66-76 lb-ft)	
89	80371043	1	THREADED LINKAGE	
90	80373029	2	QUICK DISCONNECT BALL JOINT	
91	88501304	4	HEX NUT, 1/4-28	
92	80373024	1	WATER TEMPERATURE SENDER	
93	80374015	1	FAN BELT	
94	83953265	1	FAN	
95	88201036	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
96	88551011	12	LOCKWASHER, 3/8	
97	77383377	1	STARTER SOLENOID	



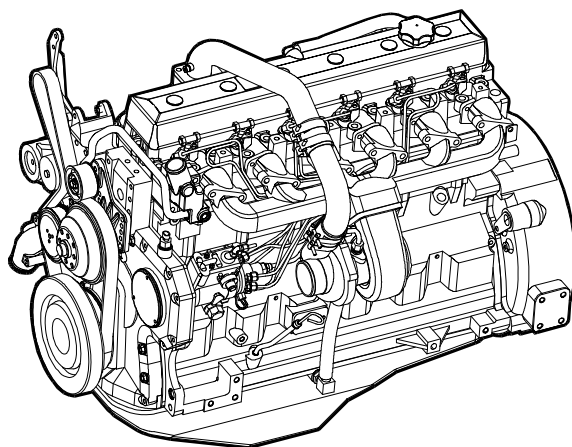
Figure 4-1 Engine Assembly

Item	Part Number	Qty.	Description	Rev.
98	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
99	88521304	2	HEX LOCKNUT, 1/4-20	
100	80373177	1	POSITIVE BATTERY CABLE	
101	80333180	1	AIR CONDITIONER PULLEY	
102	80373048	2	SHOCK MOUNT	
103	80371089	2	FRONT LIMIT PLATE	
104	77321074	2	HEX HD CAPSCREW, 7/8-9X5, (torque to 225-250 lb-ft)	
105	88521214	2	HEX LOCKNUT, 7/8-9	
106	80373049	2	REBOUND WASHER	
107	80273054	2	SHOCK MOUNT	
108	80371090	2	REAR LIMIT PLATE	
109	86641057	2	HEX HD CAPSCREW, 5/8-11X4-1/2, (torque to 200-215 lb-ft)	
110	88521010	2	HEX LOCKNUT, 5/8-11	
111	91403138	2	REBOUND WASHER	
112	80374005	1	FLYWHEEL PLATE	
113	80374006	1	COUPLING PLATE	
114	80374007	8	NEOPRENE INSERT	
115	80374008	8	THREADED BUSHING	
116	80374009	8	HEX HD CAPSCREW	
117	80374010	1	HUBBARD PLUG	
118	80374011	1	BACKING PLATE	
119	84719549	1	HOSE ASSY	
120	88662421	1	ELBOW, 45 DEGREES, (includes item 121)	
121	88591207	1	O-RING	
122	85841150	1	SUPPORT CLAMP	
123	77143003	1	WHIZ-LOK SCREW, 5/16-18X5/8	
124	77143006	1	WHIZ-LOK NUT, 5/16-18	
125	88662430	1	CONNECTOR, (includes item 126)	
126	88591206	1	O-RING	
127	80333138	1	SUCTION FITTING	
128	88591115	1	O-RING	
129	88201096	4	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5	
130	88551015	4	LOCKWASHER, 5/8	
131	80363226	1	ALTERNATOR HARNESS	
132	80474038	1	ALTERNATOR FAN	
133	80474020	1	ALTERNATOR PULLEY	
134	80474022	1	ALTERNATOR PULLEY BUSHING	
	80304002	1	ENGINE FILTER KIT, (includes all items below)	
	80373091	1	AIR FILTER	
	80373092	1	SAFETY FILTER, (air)	
	80374014	1	FUEL FILTER, (secondary)	
	91083218	1	FUEL FILTER, (primary)	
	91404005	1	OIL FILTER	



ENGINE & ATTACHING PARTS

Figure 4-2 Deere Engine Assembly



FOR WATER TEMPERATURE SENDER, SEE FIGURE 4-1, ITEM 92



Figure 4-2 Deere Engine Assembly

Item	Part Number	Qty.	Description	Rev.
	80373043	1	DEERE ENGINE SERVICE COMPONENTS, (includes all items)	
	80374121	1	GASKET OVERHAUL KIT	
	80374122	1	ENGINE CYLINDER HEAD GASKET	
	91404221	1	BELT TENSIONER BOLT	
	91404222	1	BELT TENSIONER SCREW	
	80374047	1	BELT TENSIONER SHEAVE	
	80374123	1	TURBO-CHARGER	
	80374124	1	OIL COOLER	
	91404225	1	OIL COOLER GASKET	
	91404226	1	OIL COOLER GASKET ADAPTER	
	91404228	2	OIL COOLER O-RING	
	91404229	1	WATER PUMP INLET O-RING	
	80374125	1	WATER PUMP REPAIR KIT	
	80374118	1	FRONT MAIN SEAL, SEAL KIT	
	91404232	1	WATER PUMP GASKET	
	80374126	1	WATER PUMP	
	91404234	6	EXHAUST MANIFOLD GASKET	
	80374127	1	FAN PULLEY	
	91474505	4	FAN PULLEY SCREW	
	80374034	1	FAN PULLEY SPACER	
	80374015	1	FAN BELT	
	91404238	1	FAN PULLEY SLEEVE	
	80374045	1	BEARING HOUSING, (w/bearing)	
	91404241	2	OIL PAN PLUG	
	80374024	1	OIL PAN GASKET	
	91404243	2	OIL DRAIN O-RING	
	80374035	1	INJECTOR WASHER	
	80374065	1	INJECTOR PACKING	
	80374066	1	INJECTOR NOZZLE	
	80374042	1	FLYWHEEL, w/RING GEAR	
	91404251	1	MAIN SEAL, (rear)	
	80374028	1	MAIN PULLEY	
	91404253	2	OIL FILLER GASKET	
	91404255	1	FILLER CAP PACKING	
	91404256	6	VALVE COVER PLUG	
	91404259	6	VALVE COVER O-RING	
	91404260	AR	COOLANT, (pre-mix), (2.5 gallon)	
	14405267	AR	COOLANT CONDITIONER, (1/2 gallon)	
	91404262	1	FUEL TRANSFER PUMP	
	7026920	1	THERMOSTAT	
	7026927	1	THERMOSTAT COVER SEAL	
	80374128	1	VALVE COVER GASKET	
	91404258	1	VALVE COVER FILLER CAP	
	80374129	1	PARTS MANUAL	
	80374131	1	SERVICE MANUAL	
	80373102	1	OPERATORS MANUAL	



ENGINE & ATTACHING PARTS

Figure 4-3 Air Cleaner & Installation

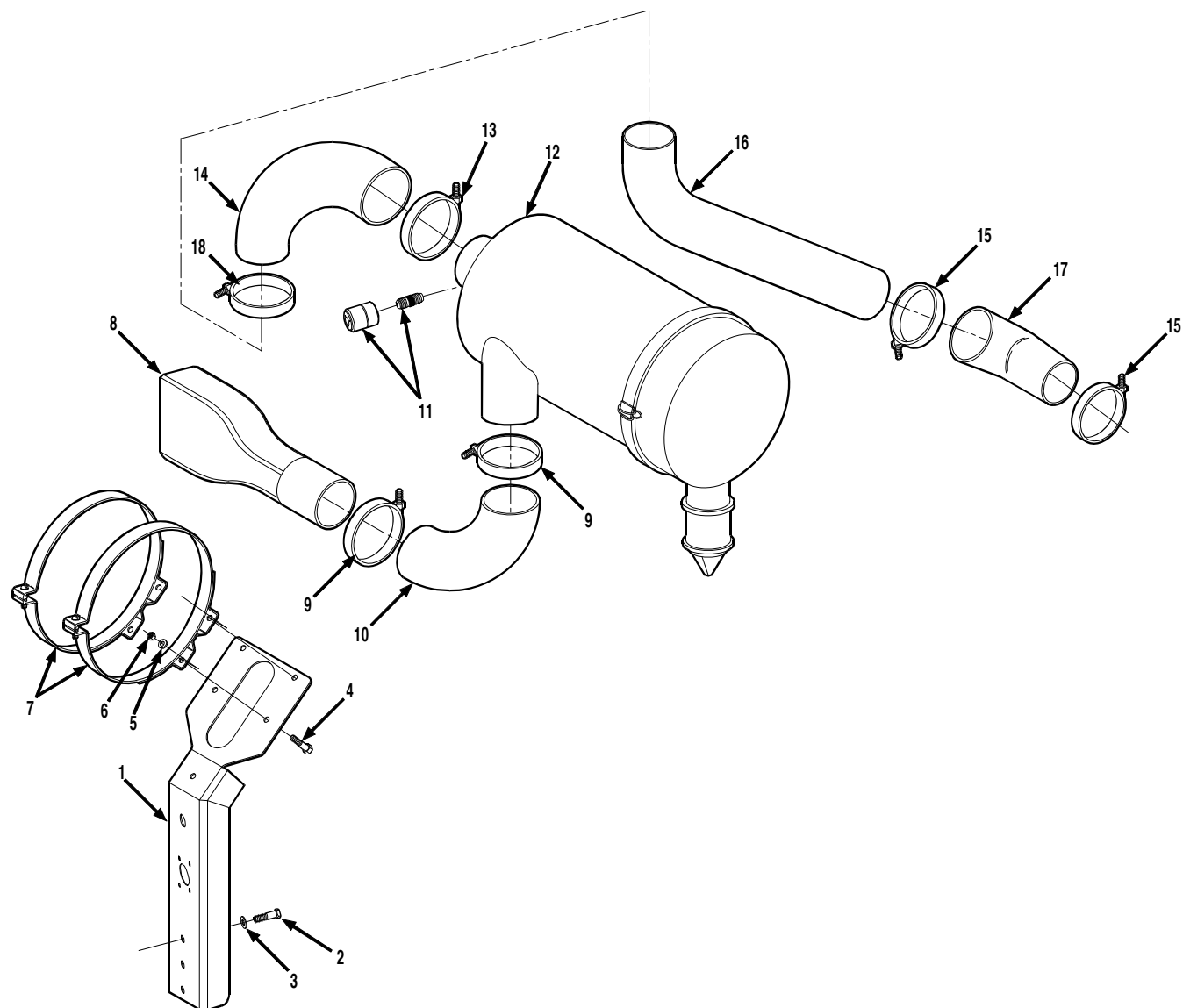




Figure 4-3 Air Cleaner & Installation

Item	Part Number	Qty.	Description	Rev.
1	80376023	1	AIR CLEANER POST WELDMENT	
2	88201065	3	HEX HD CAPSCREW, 1/2-13X1, GR5	
3	88551013	3	LOCKWASHER, 1/2	
4	88201034	4	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
5	88551011	4	LOCKWASHER, 3/8	
6	88501006	4	HEX NUT, 3/8-16	
7	80373060	2	AIR CLEANER BAND	
8	80373076	1	AIR RAMMER	
9	83953021	2	BAND CLAMP	
10	80373070	1	AIR INTAKE ELBOW	
11	77383154	1	SERVICE INDICATOR KIT	
12		Ref	AIR CLEANER ASSY, (see Figure 4-4 for details)	
13	77383790	1	BAND CLAMP	
14	91153007	1	REDUCING ELBOW	
15	91163129	3	BAND CLAMP	
16	80373075	1	AIR INTAKE TUBE	
17	91153021	1	REDUCING ELBOW	
18	91163137	1	BAND CLAMP	



Figure 4-4 Air Cleaner Assembly

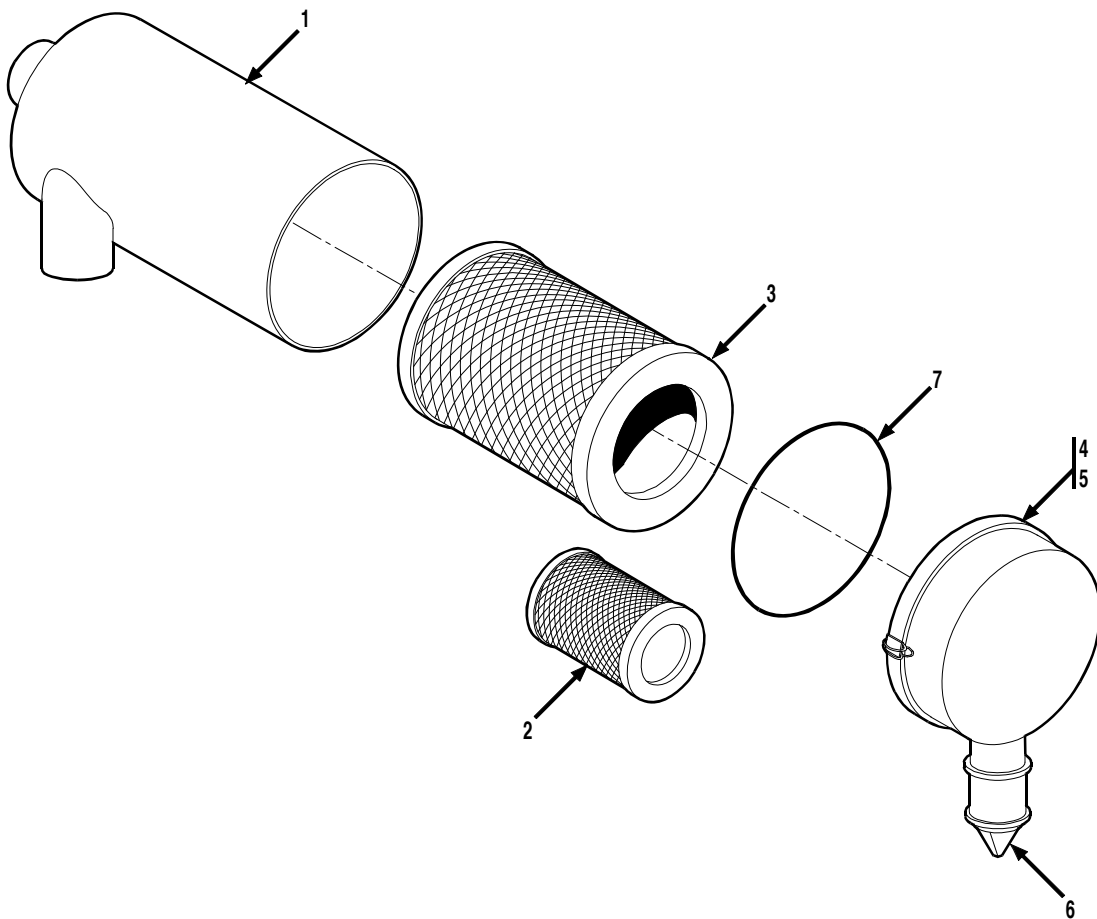




Figure 4-4 Air Cleaner Assembly

Item	Part Number	Qty.	Description	Rev.
	80373056	1	AIR CLEANER ASSY, (includes all items)	
1		1	AIR CLEANER BODY	
2	80373092	1	SAFETY FILTER ELEMENT	
3	80373091	1	FILTER ELEMENT	
4	80373090	1	COVER ASSY, (includes item 5)	
5	80373095	3	LATCH	
6	80373094	1	VACUATOR VALVE	
7	80373093	1	COVER GASKET	



ENGINE & ATTACHING PARTS

Figure 4-5 Exhaust System

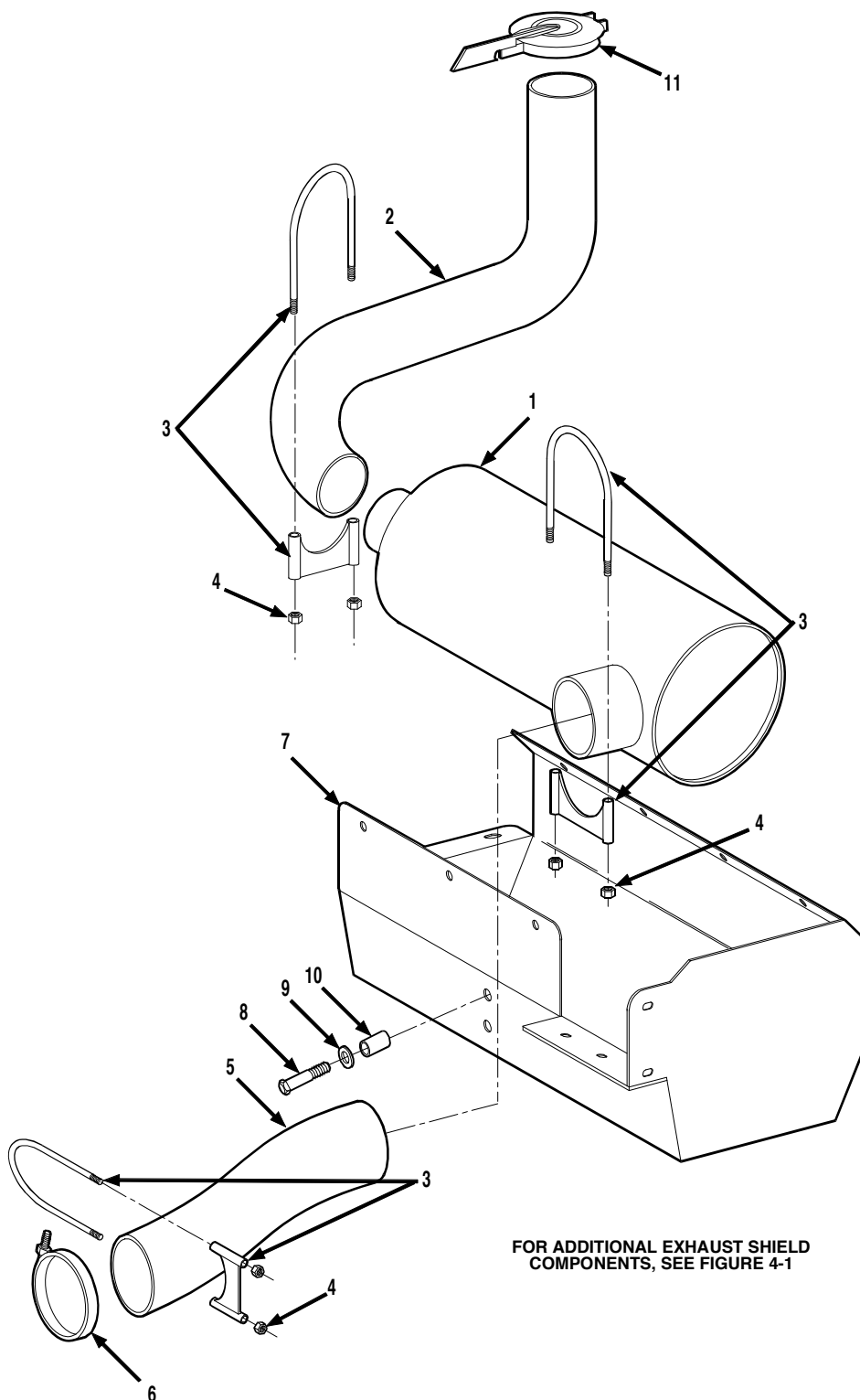


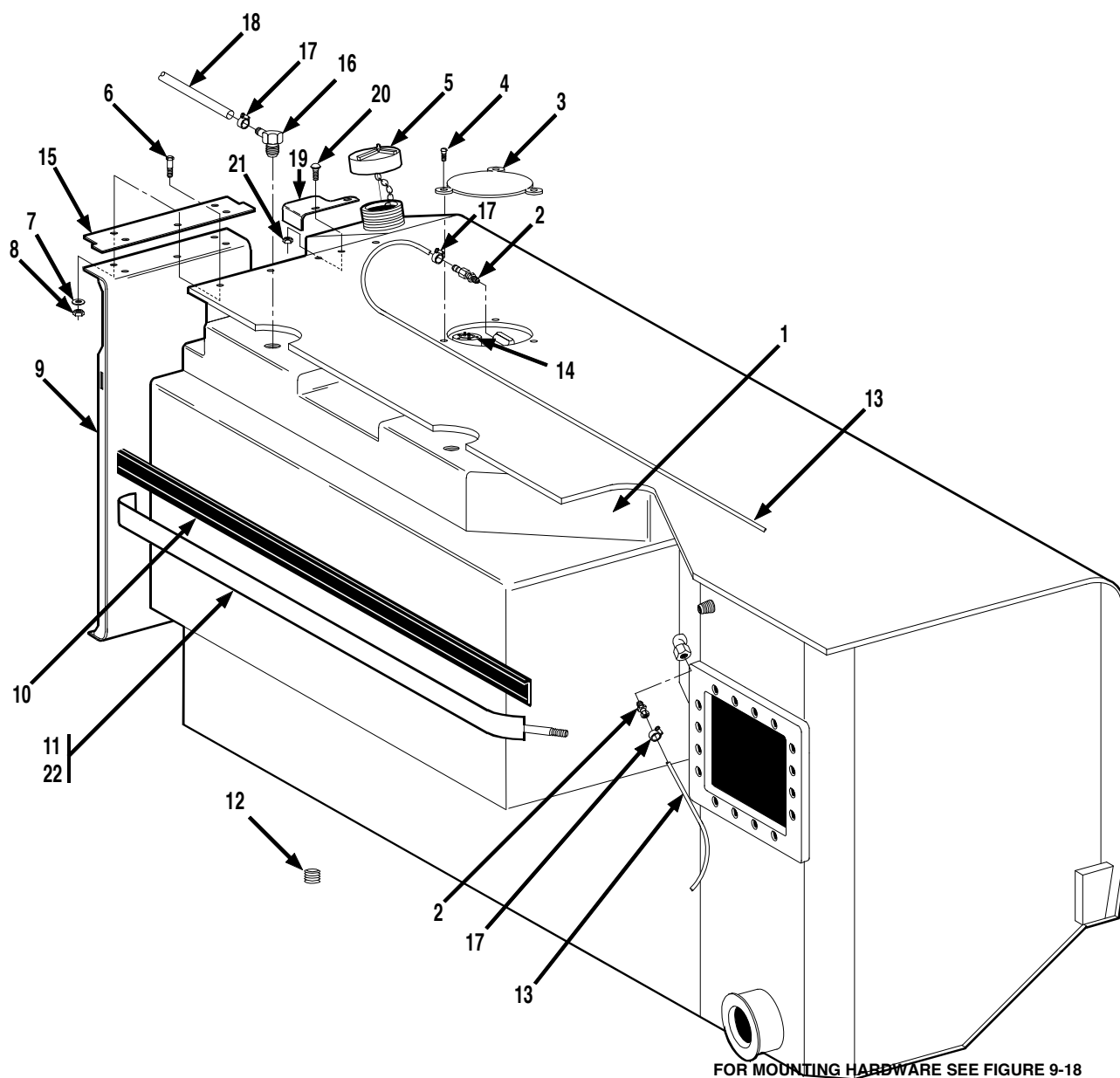


Figure 4-5 Exhaust System

Item	Part Number	Qty.	Description	Rev.
1	80373161	1	MUFFLER	
2	80373162	1	TAIL PIPE	
3	86883127	3	MUFFLER CLAMP	
4	77143015	6	WHIZ-LOK NUT, 3/8-16	
5	80373074	1	EXHAUST PIPE	
6	91403216	1	V-BAND CLAMP	
7	80376018	1	MUFFLER SHIELD WELDMENT	
8	83201126	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR8	
9	90027470	2	HARDENED WASHER, 3/8	
10	80371106	2	SPACER	
11	80373165	1	RAIN CAP	



Figure 4-6 Fuel Tank Assembly



FOR MOUNTING HARDWARE SEE FIGURE 9-18

**Figure 4-6 Fuel Tank Assembly**

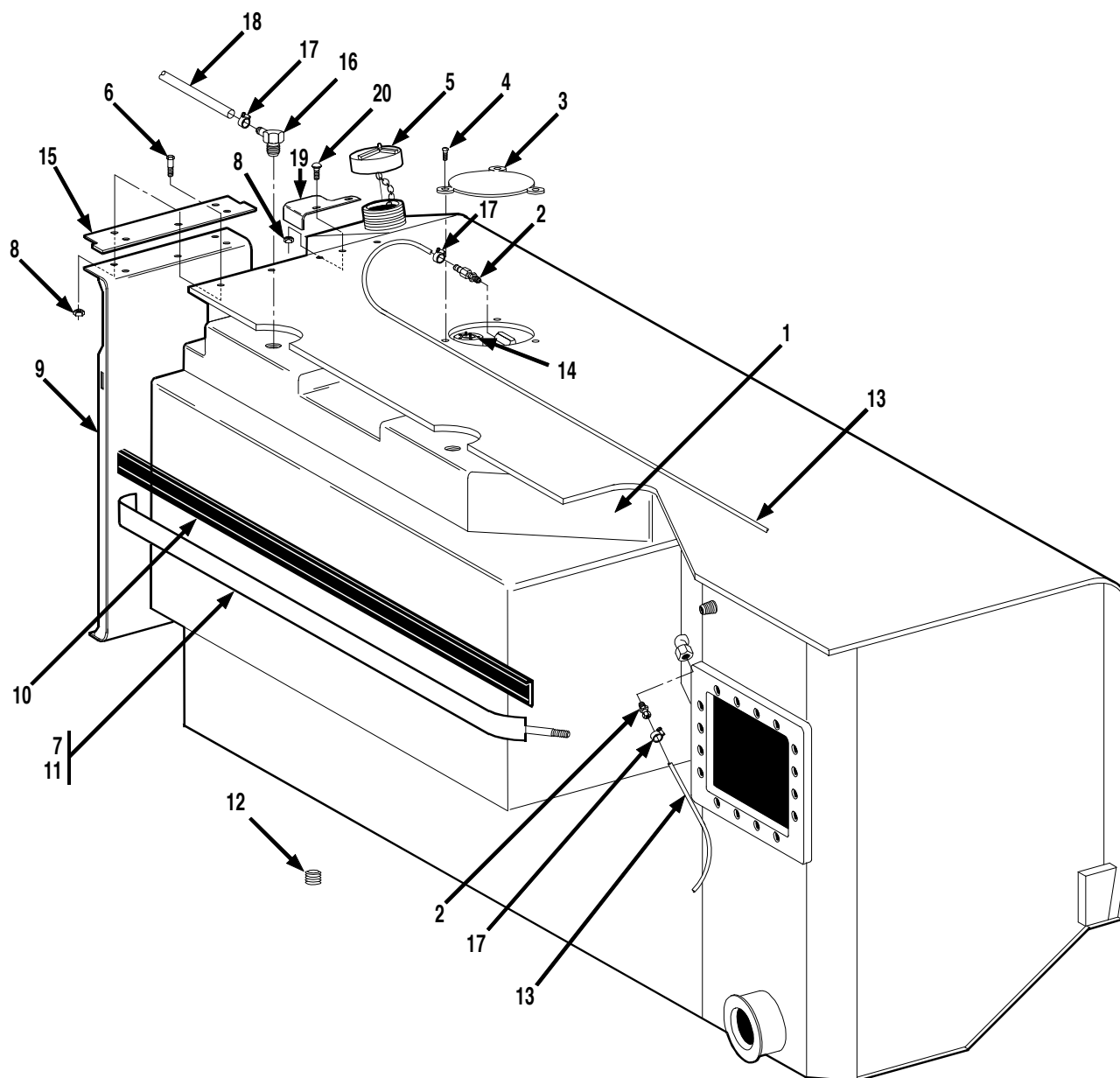
Item	Part Number	Qty.	Description	Rev.
	80375004	1	FUEL TANK ASSY, (includes all items on Figure 4-6 except item 13 & designated items on Figure 9-18)	
1	80373007	1	FUEL TANK, (includes item 5)	
2	84712743	2	HOSE NIPPLE	
3	80371012	1	COVER	
4	88261029	3	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
5	80374075	1	FUEL TANK CAP	
6	88201035	4	HEX HD CAPSCREW, 3/8-16X1, GR5	
7	88551011	4	LOCKWASHER, 3/8	
8	88501006	4	HEX NUT, 3/8-16	
9	80376031	1	BODY STIFFENER	
10	80383104	1	RUBBER ISOLATION STRAP	
11	80376003	1	FUEL TANK STRAP	
12	88711282	1	HEX SOCKET PIPE PLUG, 3/8	
13		AR	NYLON TUBE, 5/16	
14	80373014	1	FUEL LEVEL SENDER	
15	80371162	AR	SHIM, (.0359 thick)	
	80371163	AR	SHIM, (.060 thick)	
16	80373051	1	FUEL TANK VENT	
17	86883106	1	HOSE CLAMP	
18		32"	FUEL HOSE, 5/16	
19	80371082	1	SUPPORT	
20	88411062	2	ROUND HD CARRIAGE BOLT, 3/8-16X1	
21	77143015	2	WHIZ-LOK NUT, 3/8-16	
22	77143014	2	WHIZ-LOK NUT, 1/2-13	



ENGINE & ATTACHING PARTS

S/N 0334335 thru 0335343,
0330639 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

Figure 4-6 Fuel Tank Assembly



FOR MOUNTING HARDWARE SEE FIGURE 9-18



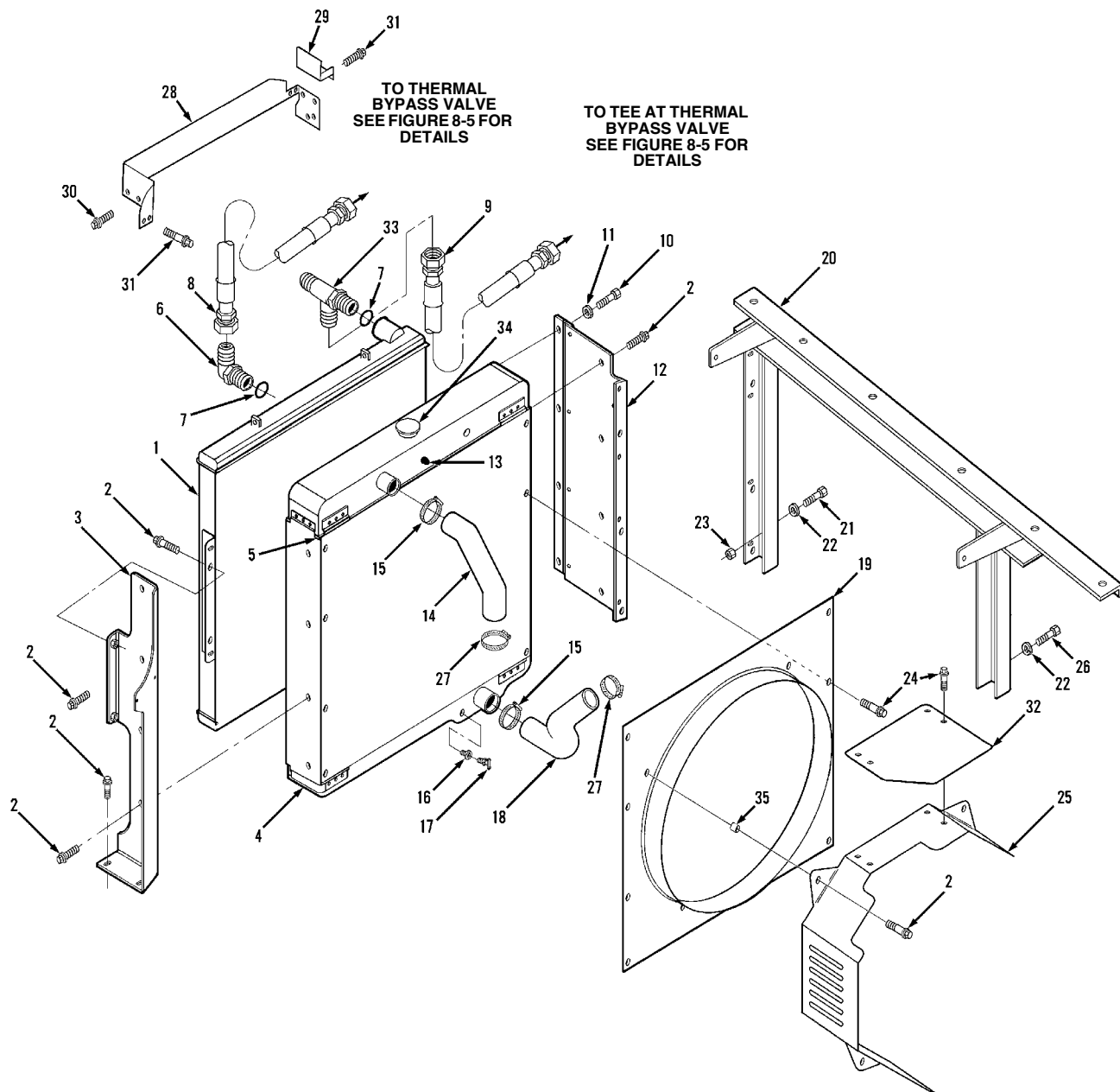
Figure 4-6 Fuel Tank Assembly

Item	Part Number	Qty.	Description	Rev.
	80375019	1	RESERVOIR ASSY, (includes all items on Figure 4-6 except item 13 & designated items on Figure 9-18)	
1	80373007	1	FUEL TANK, (includes item 5)	
2	84712743	2	HOSE NIPPLE	
3	80371012	1	COVER	
4	88261029	3	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
5	80374075	1	FUEL TANK CAP	
6	80973025	4	WHIZ-LOK SCREW, 3/8-16X1	
7	77143014	2	WHIZ-LOK NUT, 1/2-13	
8	77143015	4	WHIZ-LOK NUT, 3/8-16	
9	80376031	1	BODY STIFFENER	
10	80383104	1	RUBBER ISOLATION STRAP	
11	80376003	1	FUEL TANK STRAP	
12	88711282	1	HEX SOCKET PIPE PLUG, 3/8	
13		AR	NYLON TUBE, 5/16	
14	80373014	1	FUEL LEVEL SENDER	
15	80371162	AR	SHIM, (.0359 thick)	
	80371163	AR	SHIM, (.060 thick)	
16	80373051	1	FUEL TANK VENT	
17	86883106	1	HOSE CLAMP	
18		32"	FUEL HOSE, 5/16	
19	80371082	1	SUPPORT	
20	88411062	2	ROUND HD CARRIAGE BOLT, 3/8-16X1	



ENGINE & ATTACHING PARTS

Figure 4-7 Oil Cooler, Radiator & Hoses



PAD8220



Figure 4-7 Oil Cooler, Radiator & Hoses

Item	Part Number	Qty.	Description	Rev.
1	80373120	1	OIL COOLER	
2	80973025	16	WHIZ-LOK SCREW, 3/8-16X1	
3	80371114	1	OUTSIDE SUPPORT WELDMENT	
4	80373119	1	RADIATOR	
5	90200755	AR	FOAM GASKET TAPE	
6	88662334	1	ELBOW, 90 DEGREES, (includes item 7)	
7	88591210	2	O-RING	
8	84719697	1	HOSE ASSY	
9	84719552	1	HOSE ASSY	
10	88201033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
11	88551101	4	LOCKWASHER, 3/8	
12	80376026	1	INSIDE SUPPORT WELDMENT	
13	80973018	1	COOLANT LEVEL SENDER	
14	80373099	1	UPPER RADIATOR HOSE	
15	86883327	2	HOSE CLAMP	
16	88711383	1	REDUCING BUSHING, 1/2X3/8	
17	86671121	1	DRAIN COCK	
18	80373100	1	LOWER RADIATOR HOSE	
19	80373055	1	FAN SHROUD	
20	80376024	1	SUPPORT WELDMENT	
21	88201071	6	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5	
22	90027471	6	HARDENED WASHER, 1/2	
23	77141014	6	WHIZ-LOK NUT, 1/2-13	
24	80263012	8	WHIZ-LOK SCREW, 1/4-20X1/2	
25	80371171	1	FAN GUARD	
26	88201070	5	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5	
27	85071128	2	HOSE CLAMP	
28	80371176	1	FILLER PANEL	
29	80371177	1	FILLER PLATE	
30	91123124	1	WHIZ-LOK SCREW, 5/16-18X1/2	
31	77143003	5	WHIZ-LOK SCREW, 5/16-18X5/8	
32	80371172	1	PLATE, (not required w/air conditioning)	
33	88662520	1	RUN TEE, (includes item 7)	
34	80374109	1	RADIATOR CAP, (10 psi)	
35	80371126	4	SPACER	

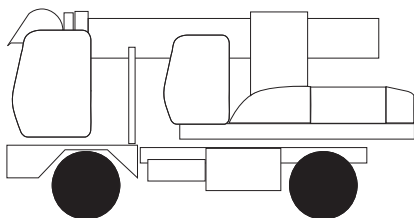


ENGINE & ATTACHING PARTS

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SECTION 5

DRIVE TRAIN



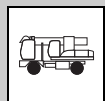
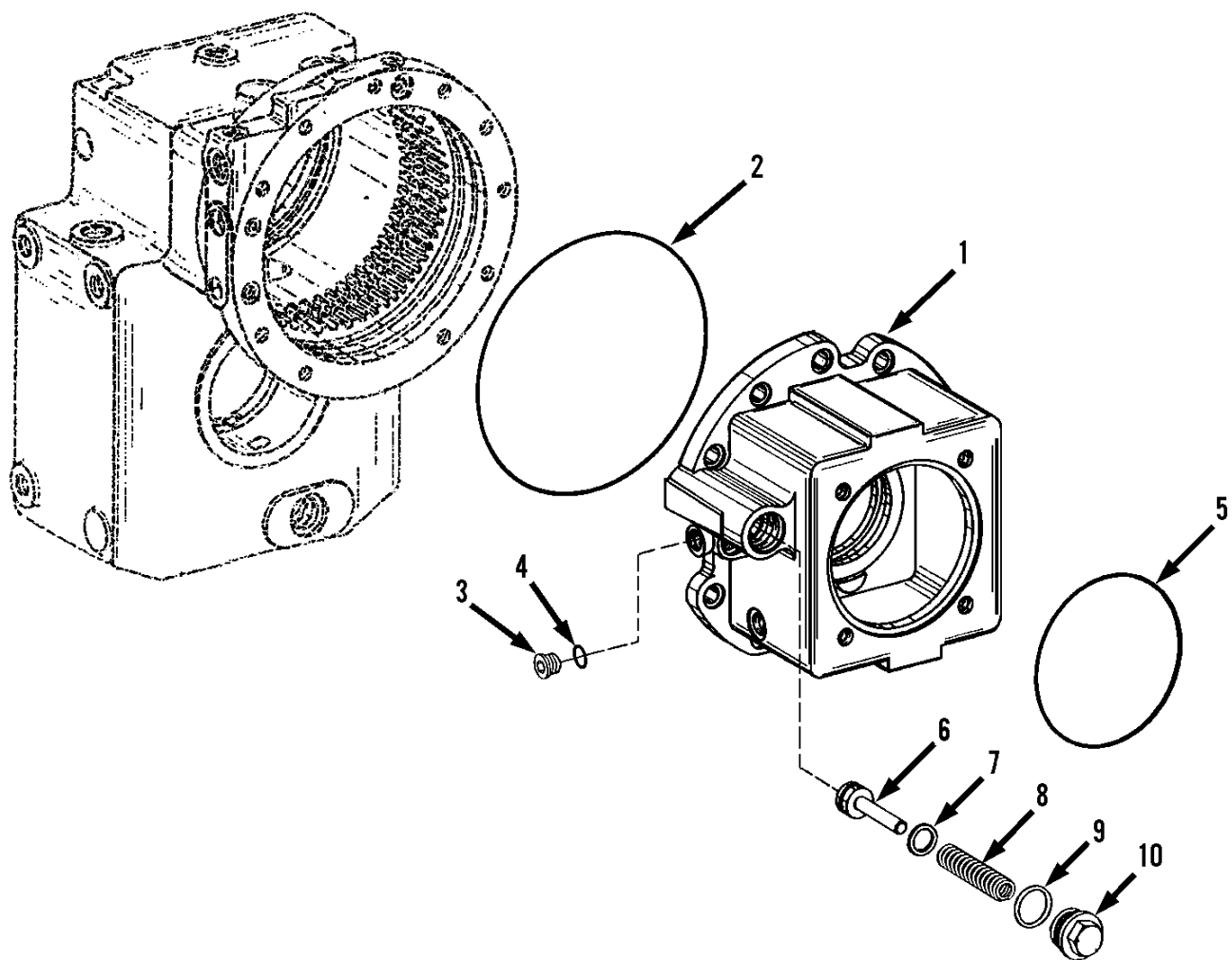


Figure 5-1 Transmission - Input Housing



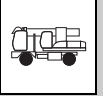


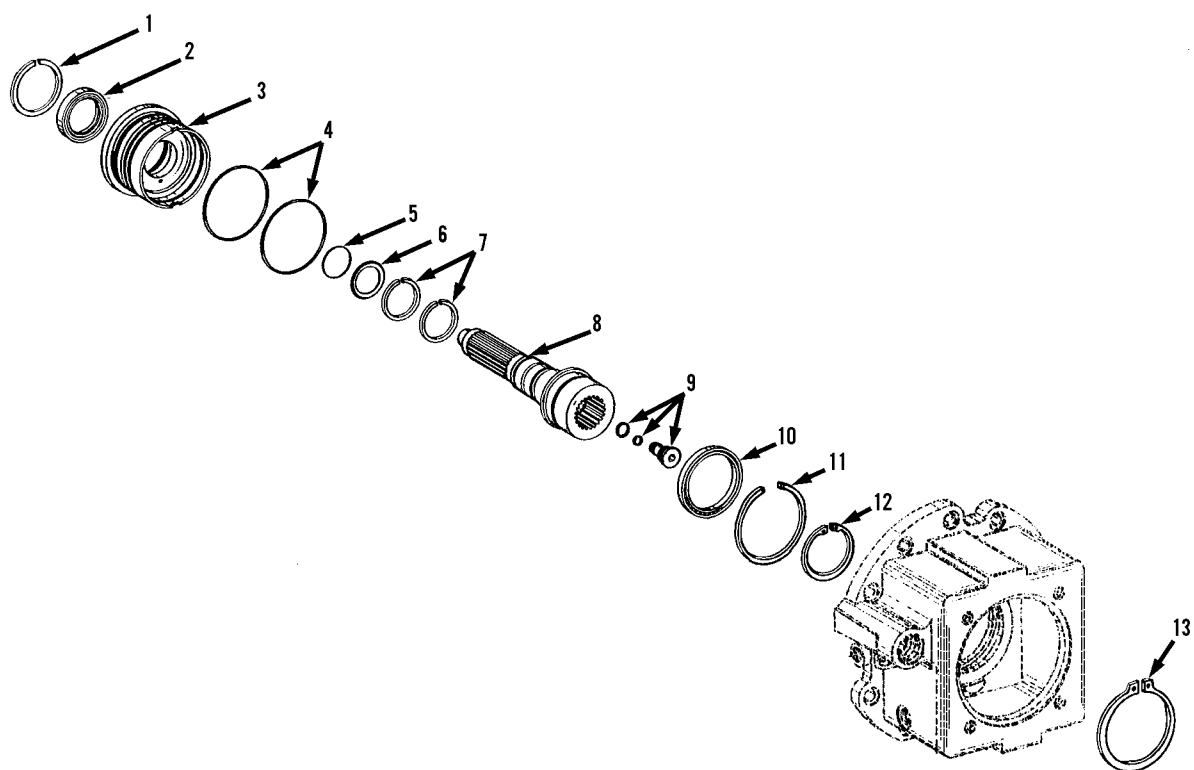
Figure 5-1 Transmission - Input Housing

Item	Part Number	Qty.	Description	Rev.
	80303006	1	TRANSMISSION, (includes all items)	
		Ref	INPUT, (see Figure 5-2 for details)	
		Ref	HOUSING, (see Figure 5-3 for details)	
		Ref	OIL PIPE, (see Figure 5-4 for details)	
		Ref	COUPLING, (see Figure 5-5 for details)	
		Ref	DISC BRAKE, (see Figure 5-6 for details)	
		Ref	PLANETARY DRIVE, (see Figure 5-7 for details)	
		Ref	DISCONNECTION, (see Figure 5-8 for details)	
		Ref	SPURRED GEAR DRIVE, (see Figure 5-9 for details)	
		Ref	SHIFT SENSOR, (see Figure 5-10 for details)	
		Ref	OUTPUT, (see Figure 5-11 for details)	
1	80304287	1	INPUT HOUSING	
2	80304288	1	O-RING	
3	80304289	1	PLUG	
4	80304290	1	O-RING	
5	80304291	1	O-RING	
6	80304292	1	PISTON	
7	80304293	1	GASKET	
8	80304294	1	COMPRESSION SPRING	
9	80304295	1	O-RING	
10	80304296	1	PLUG	



DRIVE TRAIN

Figure 5-2 Transmission - Input



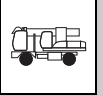
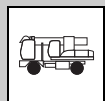


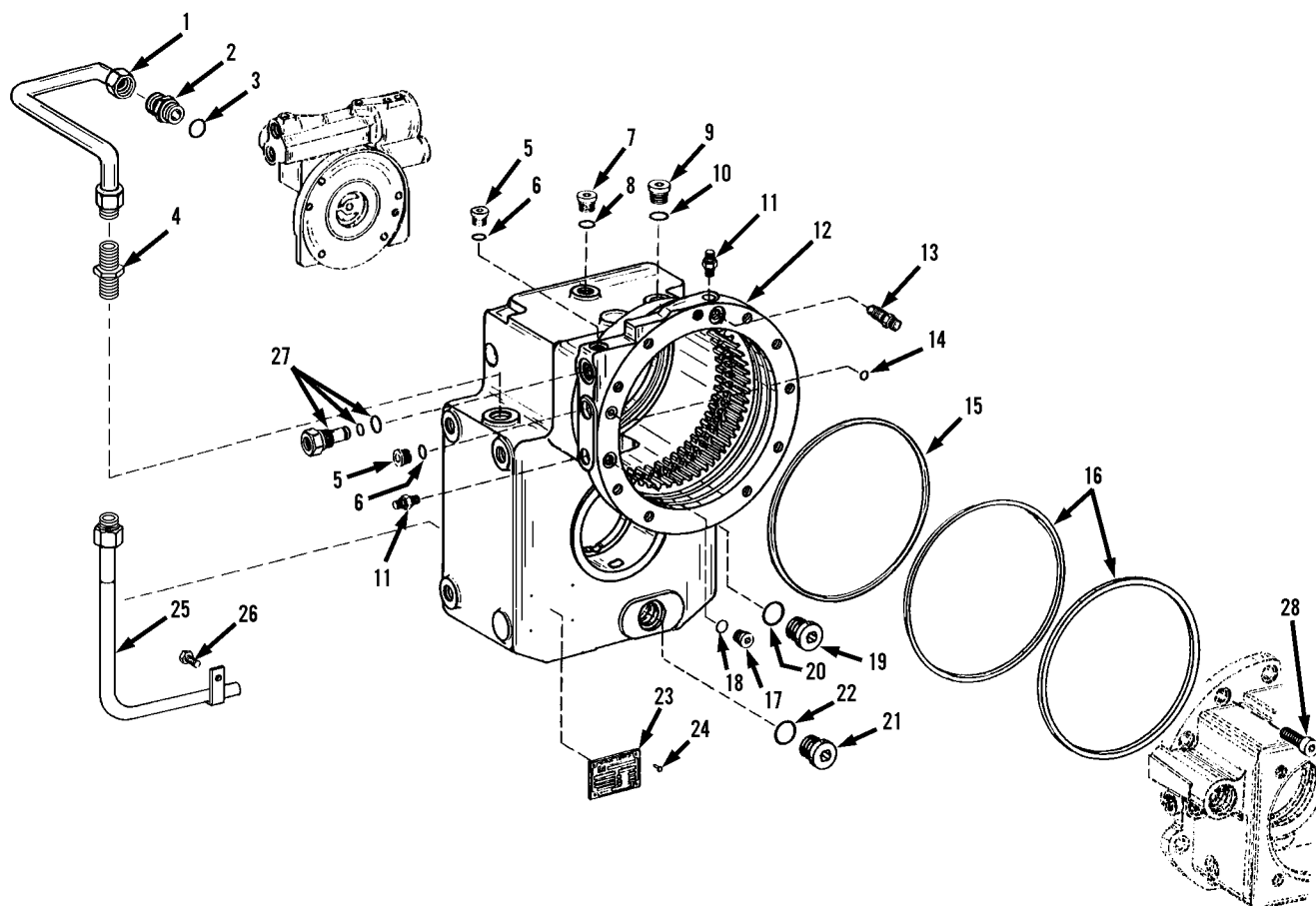
Figure 5-2 Transmission - Input

Item	Part Number	Qty.	Description	Rev.
1	80304297	1	SNAP RING	
2	80304298	1	SHAFT SEAL	
3	80304299	1	BUSHING	
4	80304300	2	O-RING	
5	80304301	1	O-RING	
6	80304302	1	GASKET	
7	80304303	2	PISTON RING	
8	80304304	1	INPUT SHAFT	
9	80304305	1	THROTTLE VALVE	
10	80304306	1	BALL BEARING	
11	80304307	1	V-RING	
12	80304308	1	V-RING	
13	80304309	1	RETAINING RING	



DRIVE TRAIN

Figure 5-3 Transmission - Housing



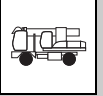
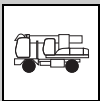


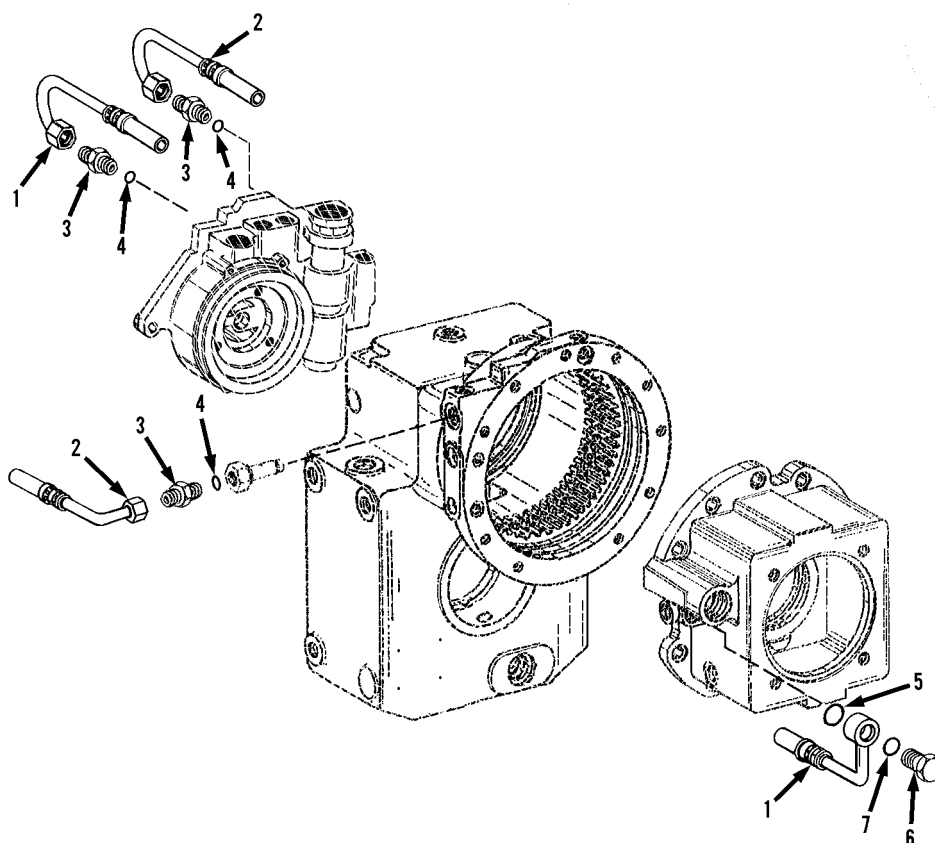
Figure 5-3 Transmission - Housing

Item	Part Number	Qty.	Description	Rev.
1	80304310	1	TUBE ASSY	
2	80304311	1	CONNECTOR	
3	80304312	1	O-RING	
4	80304313	1	CONNECTOR	
5	80304314	5	PLUG	
6	80304315	2	O-RING	
7	80304316	2	PLUG	
8	80304317	2	SEAL RING	
9	80304318	1	PLUG	
10	80304319	1	O-RING	
11	80304320	2	PLUG	
12	80304321	1	HOUSING	
13	80304322	1	VENT VALVE	
14	80304323	1	O-RING	
15	80304324	1	O-RING	
16	80304325	2	GASKET	
17	80304326	1	PLUG	
18	80304327	1	O-RING	
19	80304328	1	PLUG	
20	80304329	1	O-RING	
21	80304330	1	PLUG	
22	80304329	1	O-RING	
23	80304332	1	NAME PLATE	
24	80304333	4	STUD	
25	80304334	1	SUCTION TUBE	
26	80304463	1	HEX HD CAPSCREW	
27	80304464	1	THROTTLE VALVE	
28	80304465	10	CAPSCREW	



DRIVE TRAIN

Figure 5-4 Transmission - Oil Pipe



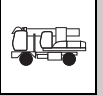


Figure 5-4 Transmission - Oil Pipe

Item	Part Number	Qty.	Description	Rev.
1	80304466	1	HOSE ASSY	
2	80304467	1	HOSE ASSY	
3	80304468	3	CONNECTOR	
4	80304469	3	O-RING	
5	80304470	1	O-RING	
6	80304471	1	UNION SCREW	
7	80304472	1	O-RING	

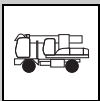
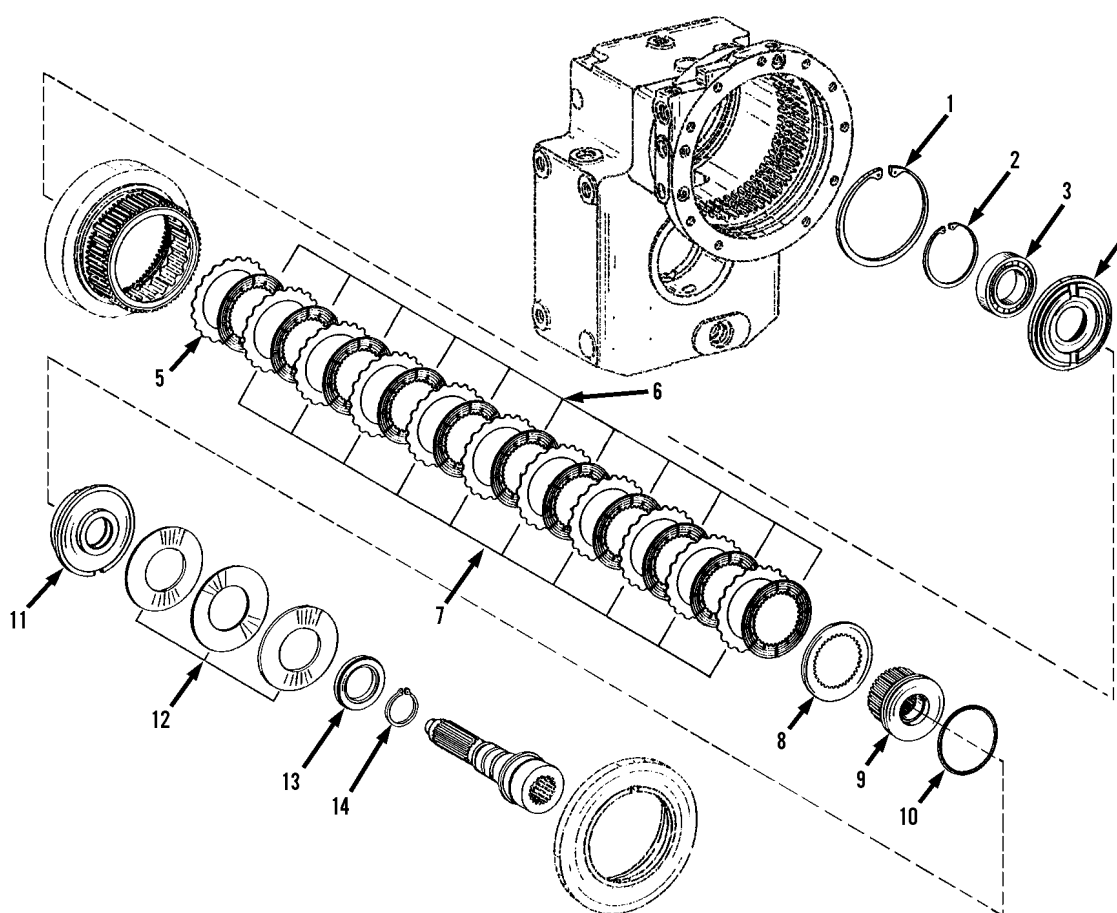


Figure 5-5 Transmission - Coupling



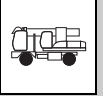


Figure 5-5 Transmission - Coupling

Item	Part Number	Qty.	Description	Rev.
1	80304338	1	RETAINING RING	
2	80304339	1	RETAINING RING	
3	80304340	1	BALL BEARING	
4	80304341	1	CENTERING DISC	
5	80304342	AR	CLUTCH DISC, 1.0mm	
	80304343	AR	CLUTCH DISC, 1.2mm	
	80304344	AR	CLUTCH DISC, 1.4mm	
	80304345	AR	CLUTCH DISC, 1.8mm	
6	80304346	11	LINEAL CLUTCH DISC	
7	80304343	10	CLUTCH DISC, 1.2mm	
8	80304348	1	SHEET	
9	80304349	1	DISC CARRIER	
10	80304350	1	GASKET	
11	80304351	1	PISTON	
12	80304352	1	CUP SPRING	
13	80304353	1	SUPPORT SHIM	
14	80304354	1	RETAINING RING	

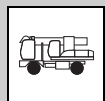
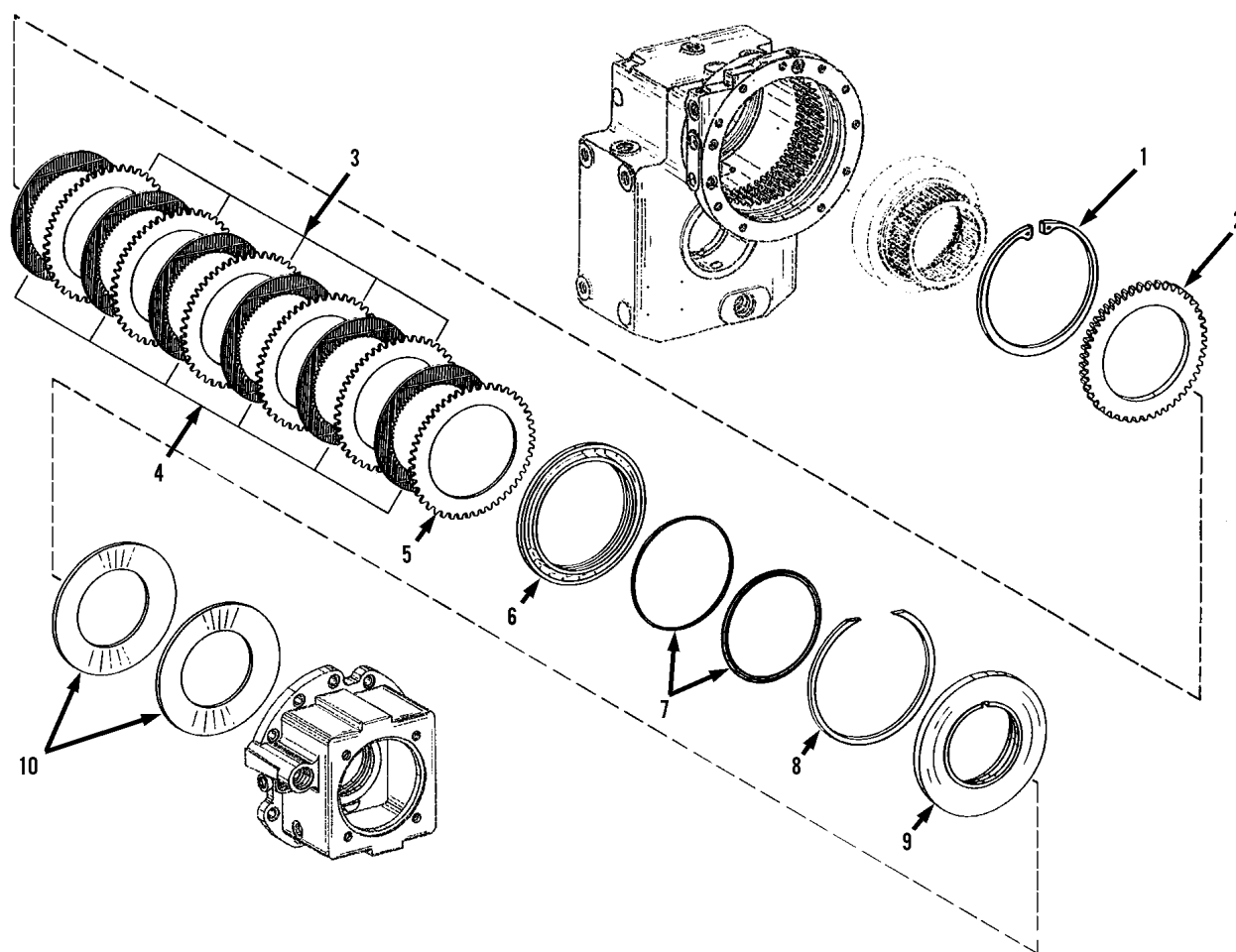


Figure 5-6 Transmission - Disc Brake



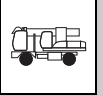


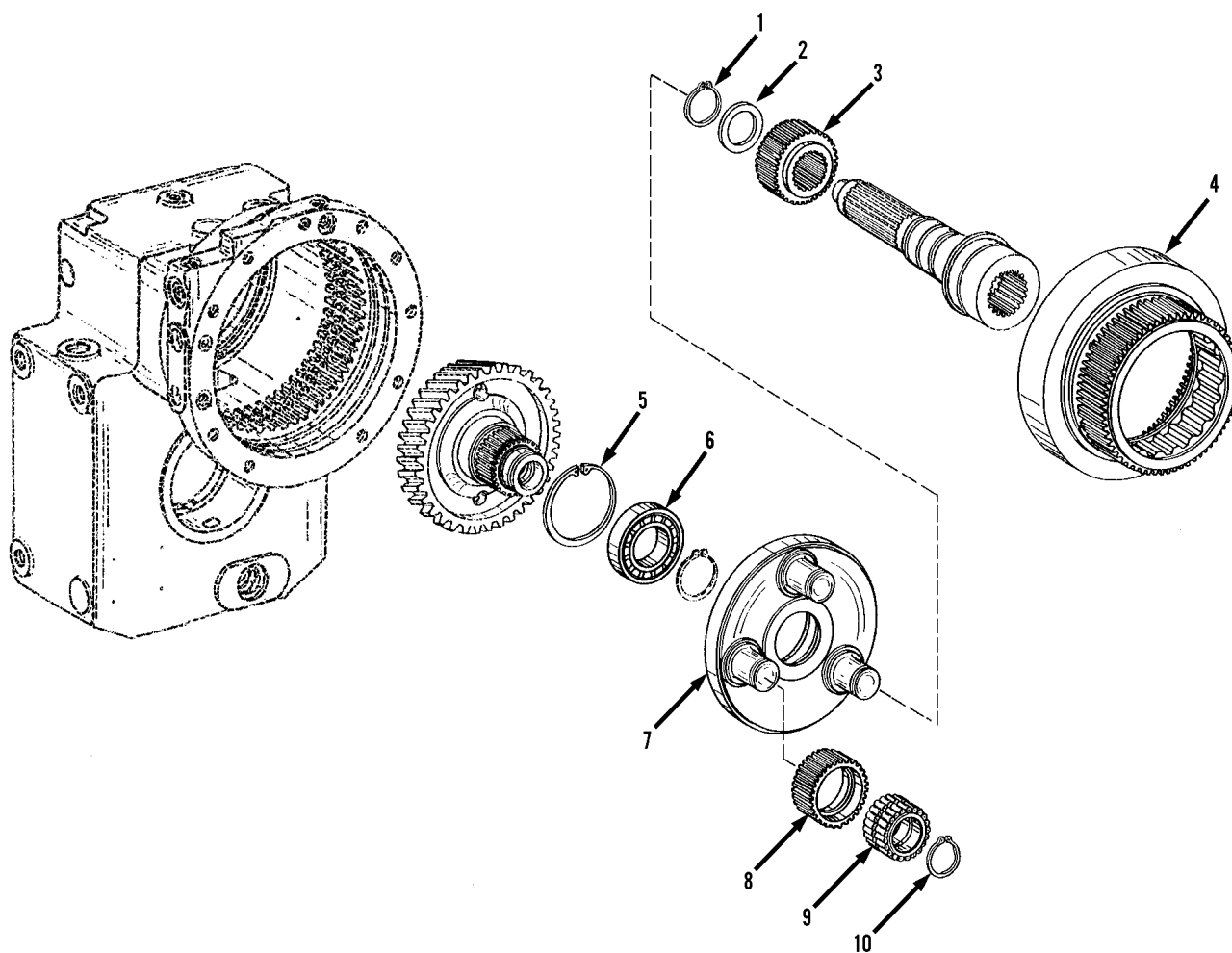
Figure 5-6 Transmission - Disc Brake

Item	Part Number	Qty.	Description	Rev.
1	80304355	1	RETAINING RING	
2	80304356	1	END SHIM	
3	80304357	5	CLUTCH DISC	
4	80304358	6	CLUTCH DISC	
5	80304359	AR	CLUTCH DISC, 2.8mm	
	80304360	AR	CLUTCH DISC, 2.9mm	
	80304361	AR	CLUTCH DISC, 3.0mm	
	80304362	AR	CLUTCH DISC, 3.3mm	
6	80304363	1	WASHER	
7	80304364	1	GASKET	
8	80304365	1	SNAP RING	
9	80304366	1	PISTON	
10	80304367	1	CUP SPRING	



DRIVE TRAIN

Figure 5-7 Transmission - Planetary Drive



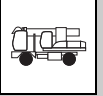
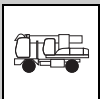


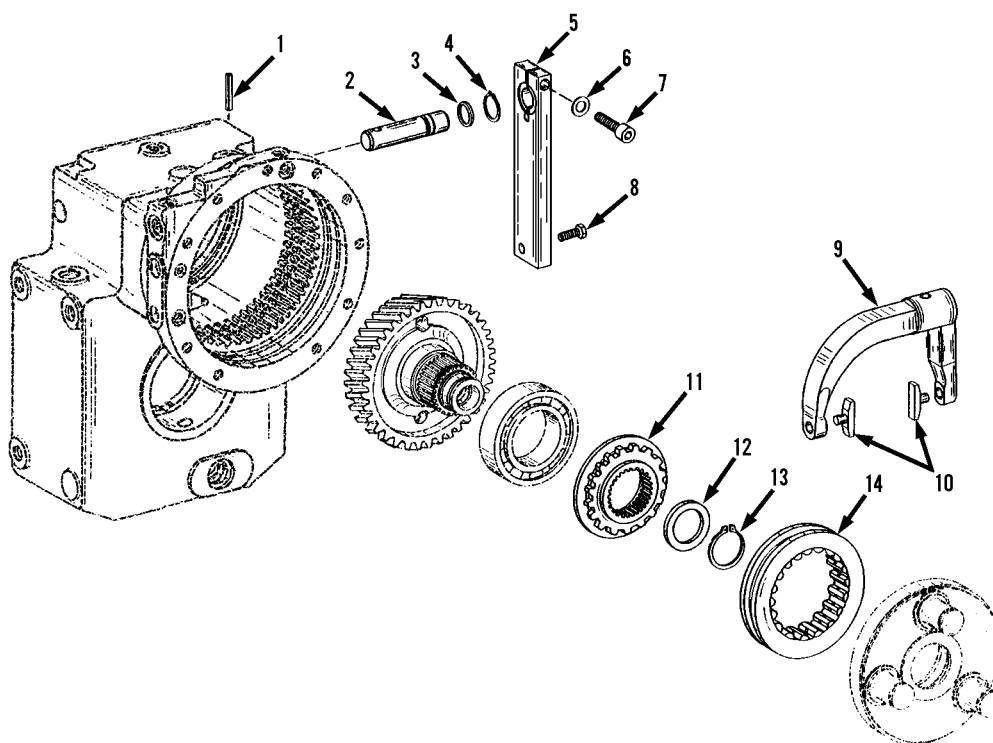
Figure 5-7 Transmission - Planetary Drive

Item	Part Number	Qty.	Description	Rev.
1	80304368	1	RETAINING RING	
2	80304369	AR	WASHER, 3.00mm	
	80304370	AR	WASHER, 3.05mm	
	80304371	AR	WASHER, 3.15mm	
	80304372	AR	WASHER, 3.25mm	
	80304373	AR	WASHER, 3.35mm	
	80304374	AR	WASHER, 3.40mm	
	80304375	AR	WASHER, 3.50mm	
	80304376	AR	WASHER, 3.60mm	
	80304377	AR	WASHER, 3.70mm	
	80304378	AR	WASHER, 3.20mm	
3	80304379	1	SUN GEAR	
4	80304380	1	RING GEAR	
5	80304381	1	RETAINING RING	
6	80304382	1	BALL BEARING	
7	80304383	1	PLANETARY CARRIER	
8	80304384	3	PLANETARY GEAR	
9	80304385	3	ROLLER BEARING	
10	80304386	3	RETAINING RING	



DRIVE TRAIN

Figure 5-8 Transmission - Disconnection



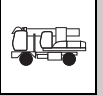
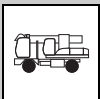


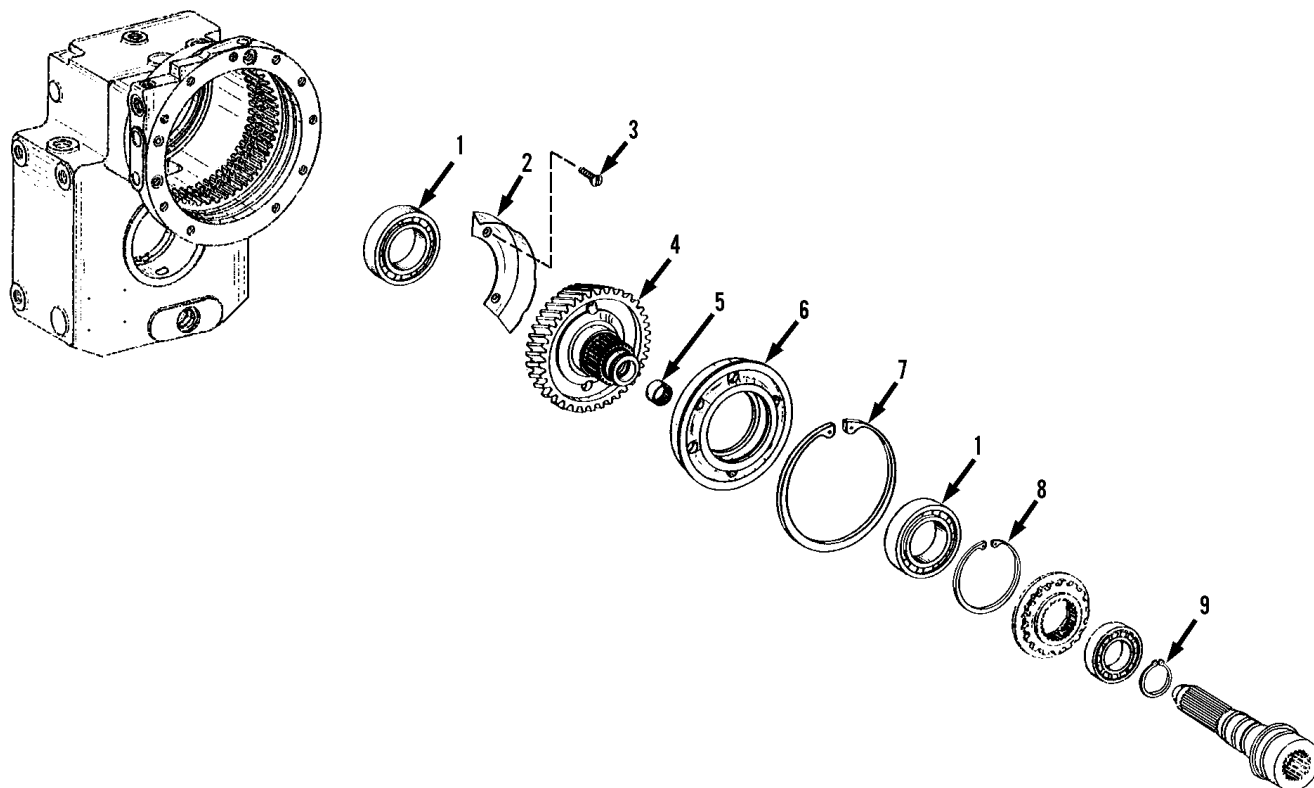
Figure 5-8 Transmission - Disconnection

Item	Part Number	Qty.	Description	Rev.
1	80304387	1	SLOT PIN	
2	80304388	1	PIN	
3	80304389	1	O-RING	
4	80304390	1	RETAINING RING	
5	80304391	1	LEVER	
6	80304392	1	WASHER	
7	80304393	1	CAPSCREW	
8	80304394	1	HEX HD CAPSCREW	
9	80304395	1	SHIFT FORK	
10	80304396	2	SLIDING PAD	
11	80304397	1	SHIFTING DOG	
12	80304398	AR	WASHER, 2.0mm	
	80304399	AR	WASHER, 2.2mm	
	80304400	AR	WASHER, 2.3mm	
	80304401	AR	WASHER, 2.4mm	
	80304402	AR	WASHER, 2.5mm	
	80304403	AR	WASHER, 2.6mm	
	80304404	AR	WASHER, 2.8mm	
13	80304405	1	RETAINING RING	
14	80304406	1	SLIDING SLEEVE	



DRIVE TRAIN

Figure 5-9 Transmission - Spurred Gear Drive



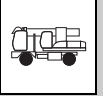
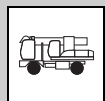


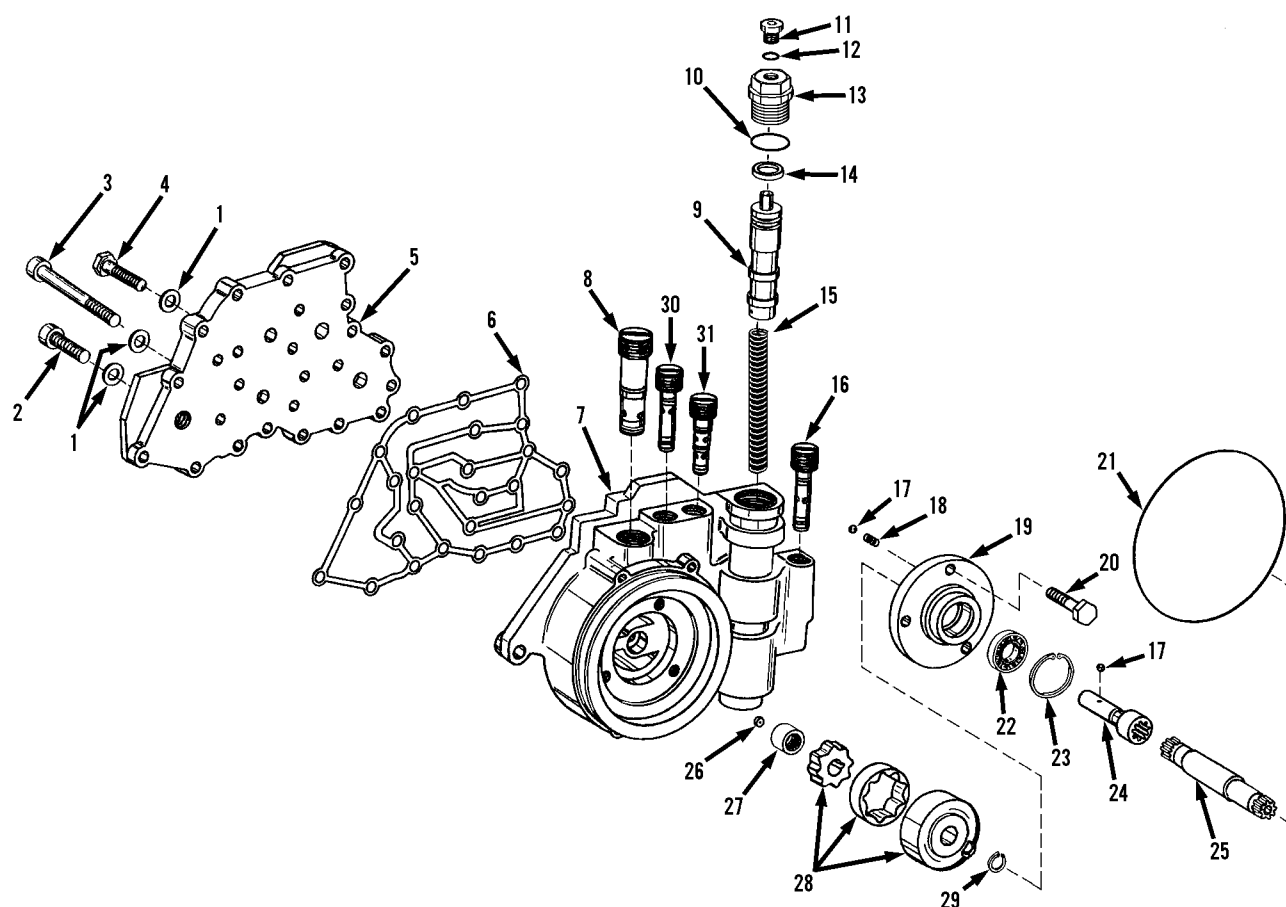
Figure 5-9 Transmission - Spurred Gear Drive

Item	Part Number	Qty.	Description	Rev.
1	80304407	2	BALL BEARING	
2	80304408	1	SCREEN SHEET	
3	80304409	2	SCREW	
4	80304410	1	HELICAL GEAR	
5	80304411	1	NEEDLE SLEEVE	
6	80304412	1	BEARING COVER	
7	80304413	1	RETAINING RING	
8	80304414	1	RETAINING RING	
9	80304415	1	RETAINING RING	



DRIVE TRAIN

Figure 5-10 Transmission - Shift Sensor



WHEN ORDERING ITEM 5, (COVER), CHECK YOUR COVER IDENTIFICATION NUMBER; IF YOUR NUMBER ENDS IN #063, ORDER PART 8030-4420, (COVER), w/GASKET 8030-4421. IF YOUR COVER ID # ENDS IN #091, ORDER PART 8030-4476, (COVER), w/GASKET 8030-4477.

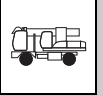


Figure 5-10 Transmission - Shift Sensor

Item	Part Number	Qty.	Description	Rev.
1	80304416	27	WASHER	
2	80304417	2	CAPSCREW	
3	80304418	2	CAPSCREW	
4	80304419	23	HEX HD CAPSCREW	
5	80304420	1	COVER, (see note in illustration)	
	80304476	1	COVER	
6	80304421	1	GASKET, (see note in illustration)	
	80304477	1	GASKET	
7	80304422	1	HOUSING	
8	80304423	1	RELIEF VALVE	
9	80304424	1	PISTON	
10	80304425	1	O-RING	
11	80304426	1	PLUG	
12	80304427	1	SEAL RING	
13	80304428	1	PLUG	
14	80304429	1	GASKET	
15	80304430	1	SPRING	
16	80304431	1	CHECK VALVE	
17	80304432	4	BALL	
18	80304433	3	COMPRESSION SPRING	
19	80304434	1	PUMP COVER	
20	80304435	3	HEX HD CAPSCREW	
21	80304436	1	O-RING	
22	80304437	1	BALL BEARING	
23	80304438	1	RETAINING RING	
24	80304439	1	PUMP SHAFT	
25	80304440	1	PUMP SHAFT	
26	80304441	1	ORIFICE	
27	80304442	1	NEEDLE SLEEVE	
28	80304443	1	ROTOR SET	
29	80304444	1	RETAINING RING	
30	80304445	1	CHECK VALVE	
31	80304446	1	CHECK VALVE	

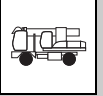
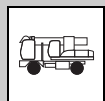


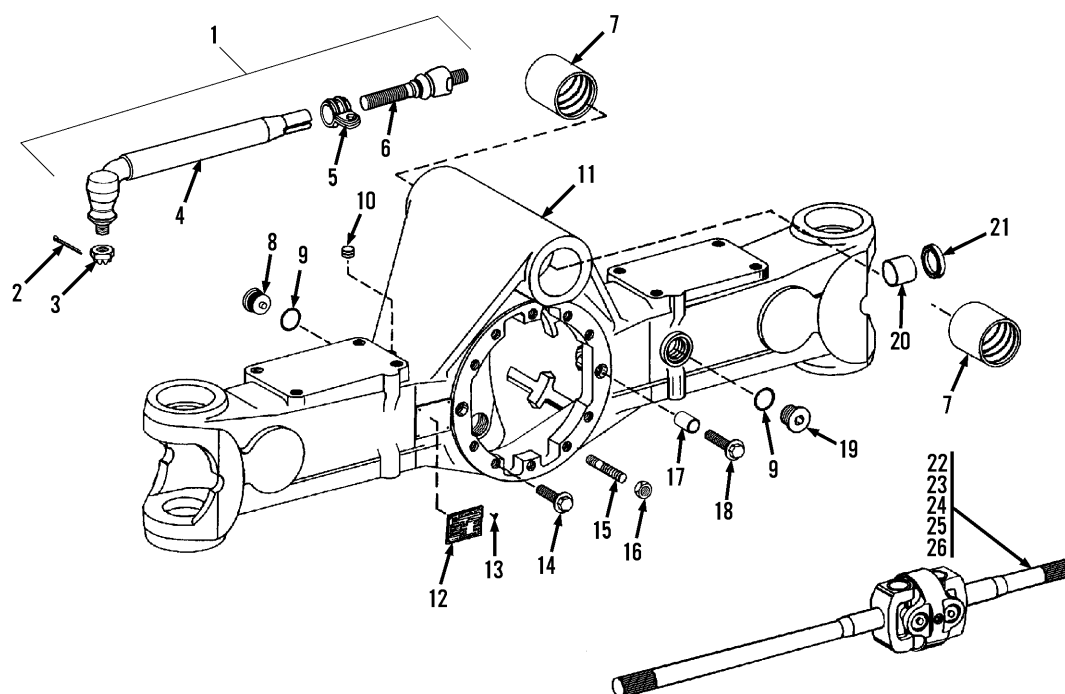
Figure 5-11 Transmission - Output

Item	Part Number	Qty.	Description	Rev.
1	80304447	1	OIL DEFLECTOR	
2	80304448	1	HELICAL GEAR	
3	80304449	1	SCREEN SHEET	
4	80304450	2	BALL BEARING	
5	80304451	2	SHAFT SEAL	
6	80304452	2	DEFLECTOR PLATE	
7	80304453	16	HEX HD CAPSCREW	
8	80304454	2	OUTPUT FLANGE	
9	80304455	2	O-RING	
10	80304456	2	WASHER	
11	80304457	4	HEX HD CAPSCREW	
12	80304458	2	TAB WASHER	
13	80304459	1	RETAINING RING	
14	80304460	7	HEX HD CAPSCREW	
15	80304461	1	COVER	
16	80304462	1	O-RING	
17		16	HEX LOCKNUT, M10, (see Figure 1-1 for details), (item 43)	



DRIVE TRAIN

Figure 5-12 Steer Axle - Axle Housing



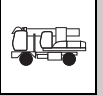
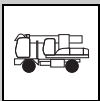


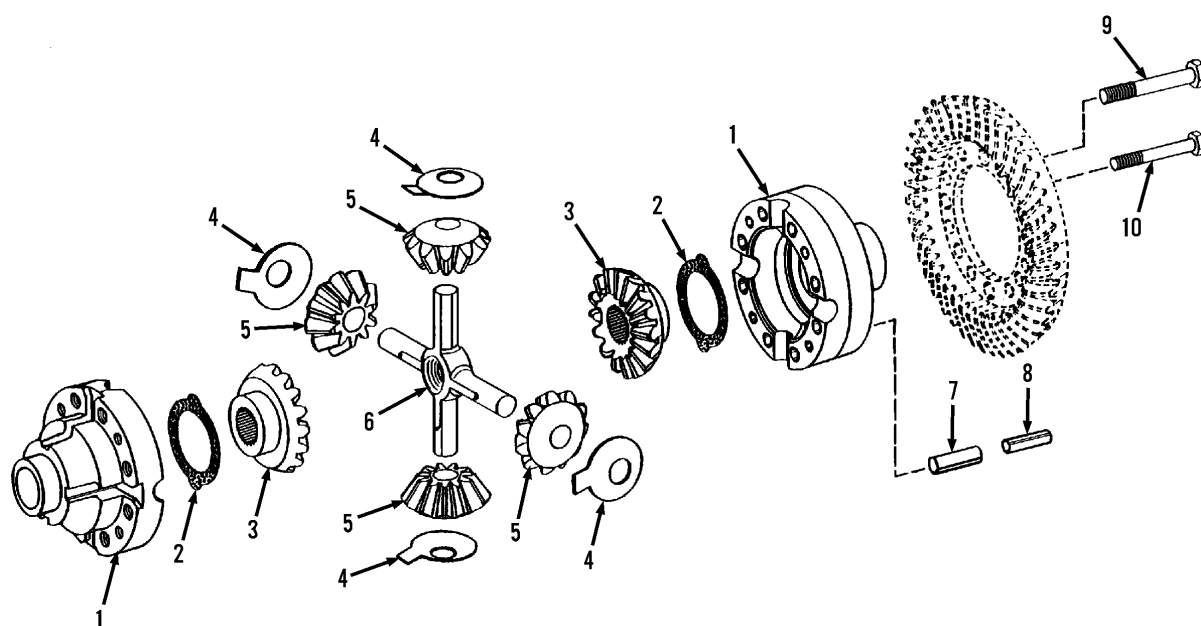
Figure 5-12 Steer Axle - Axle Housing

Item	Part Number	Qty.	Description	Rev.
	80303004	1	STEER AXLE, (includes all items)	
		Ref	DIFFERENTIAL SPIDER, CAGE & NEST, (see Figure 5-13 for details)	
		Ref	DIFFERENTIAL CARRIER, (see Figure 5-14 for details)	
		Ref	WHEEL END ASSY, (see Figure 5-15 for details)	
		Ref	GEARBOX & BRAKE ASSY, (see Figure 5-16 for details)	
		Ref	STEERING GEAR, (see Figure 5-17 for details)	
	80304004	1	AXLE HOUSING, (includes items 1 thru 26)	
1	80304005	1	TIE ROD, R.H.	
	80304006	1	TIE ROD, L.H.	
2	80304007	2	COTTER PIN	
3	80304008	2	CASTLE NUT	
4	80304009	1	BALL JOINT, R.H.	
	80304010	1	BALL JOINT, L.H.	
5	80304011	2	CLAMPING CLIP	
6	80304012	2	JOINT	
7	80304013	2	BEARING	
8	80304014	1	PLUG, (includes item 9)	
9	80304015	3	O-RING	
10	80304016	1	PLUG	
11	80304017	1	AXLE HOUSING	
12	80304018	1	TYPE PLATE	
13	80304019	4	GROOVED STUD	
14	80304020	7	LOCKING SCREW	
15	80304021	3	STUD	
16	80304022	3	LOCKING NUT	
17	80304023	2	BUSHING	
18	80304024	2	LOCKING SCREW	
19	80304025	2	PLUG, (includes item 9)	
20	80304026	2	BUSHING	
21	80304027	2	SHAFT SEAL	
22	80304028	2	UNIVERSAL SHAFT, (includes items 23 thru 26)	
23	80304029	2	CENTRAL PIECE	
24	80304030	4	JOINT CROSS	
25	80304031	2	SHORT FORK SHAFT	
26	80304032	2	LONG FORK SHAFT	



DRIVE TRAIN

Figure 5-13 Steer Axle - Differential Spider, Cage & Nest



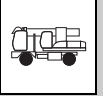
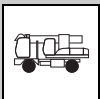


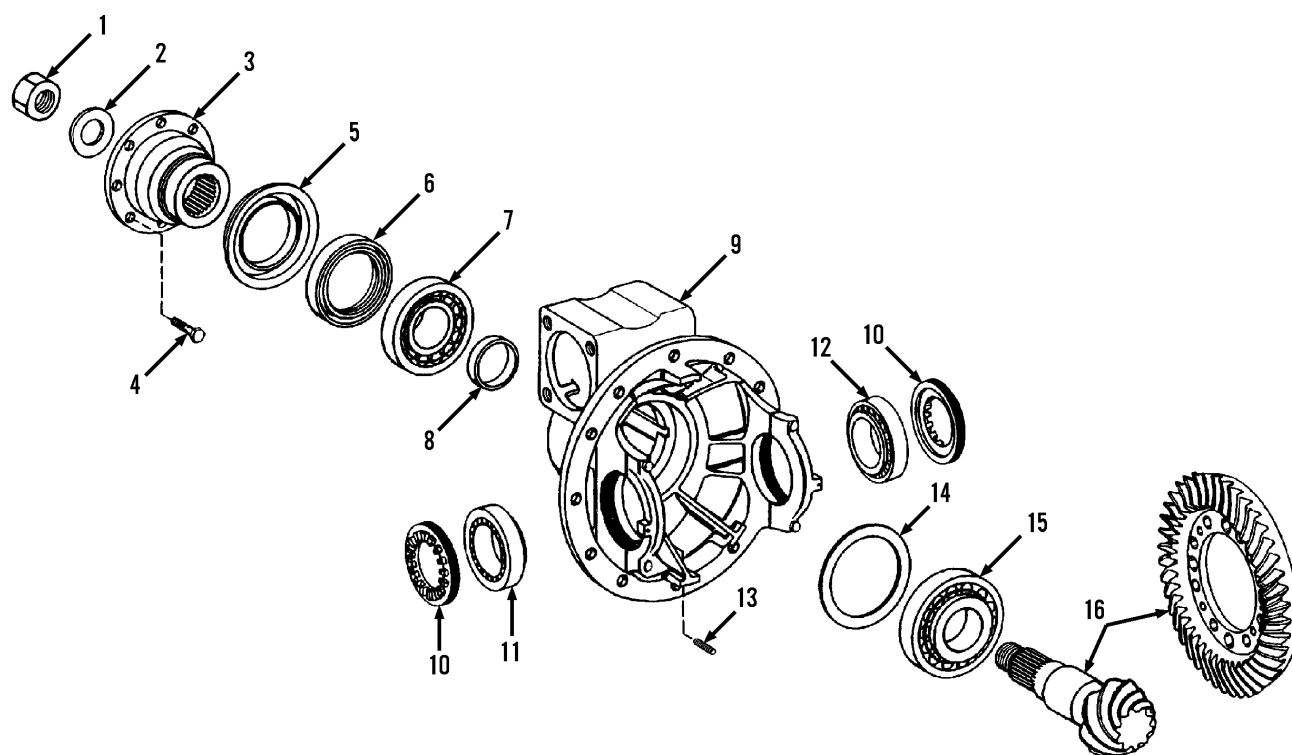
Figure 5-13 Steer Axle - Differential Spider, Cage & Nest

Item	Part Number	Qty.	Description	Rev.
	80304033	1	DIFFERENTIAL SPIDER, CAGE & NEST, (includes all items)	
	80304171	1	DIFFERENTIAL CARRIER w/DIFFERENTIAL, (includes all items on Figures 5-13 & 5-14)	
1	80304034	1	DIFFERENTIAL CASE	
2	80304035	2	THRUST WASHER	
3	80304036	2	AXLE BEVEL GEAR	
4	80304037	4	THRUST WASHER	
5	80304038	4	DIFFERENTIAL BEVEL GEAR	
6	80304039	1	DIFFERENTIAL SPIDER	
7	80304040	4	SLOT PIN	
8	80304041	4	SLOT PIN	
9	80304042	8	HEX HD CAPSCREW	
10	80304043	4	HEX HD CAPSCREW	



DRIVE TRAIN

Figure 5-14 Steer Axle - Differential Carrier



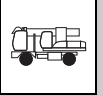


Figure 5-14 Steer Axle - Differential Carrier

Item	Part Number	Qty.	Description	Rev.
	80304080	1	DIFFERENTIAL CARRIER, (includes all items)	
	80304171	1	DIFFERENTIAL CARRIER w/DIFFERENTIAL, (includes all items on Figures 5-13 & 5-14)	
1	80304081	1	HEX NUT	
2	80304082	1	WASHER	
3	80304083	1	INPUT FLANGE	
4	80304084	8	HEX HD CAPSCREW	
5	80304085	1	PROTECTIVE SHIELD	
6	80304086	1	SHAFT SEAL	
7	80304087	1	ROLLER BEARING	
8	80304088	AR	RING, 16.00mm	
	80304089	AR	RING, 16.10mm	
	80304090	AR	RING, 16.20mm	
	80304091	AR	RING, 16.30mm	
	80304092	AR	RING, 16.40mm	
	80304093	AR	RING, 16.50mm	
	80304094	AR	RING, 16.60mm	
	80304095	AR	RING, 16.70mm	
	80304096	AR	RING, 16.80mm	
	80304097	AR	RING, 16.92mm	
	80304098	AR	RING, 17.01mm	
	80304099	AR	RING, 17.10mm	
	80304100	AR	RING, 17.20mm	
	80304101	AR	RING, 17.30mm	
	80304102	AR	RING, 17.40mm	
	80304103	AR	RING, 16.83mm	
	80304104	AR	RING, 16.86mm	
	80304105	AR	RING, 16.89mm	
	80304106	AR	RING, 16.95mm	
	80304107	AR	RING, 16.98mm	
	80304108	AR	RING, 17.04mm	
	80304109	AR	RING, 17.07mm	
	80304110	AR	RING, 16.56mm	
	80304111	AR	RING, 16.62mm	
	80304112	AR	RING, 16.64mm	
	80304113	AR	RING, 16.68mm	
	80304114	AR	RING, 16.72mm	
	80304115	AR	RING, 16.74mm	
	80304116	AR	RING, 16.75mm	
	80304117	AR	RING, 16.76mm	
	80304118	AR	RING, 16.78mm	
	80304119	AR	RING, 16.82mm	
	80304120	AR	RING, 16.84mm	
	80304121	AR	RING, 16.88mm	
	80304122	AR	RING, 16.90mm	
	80304123	AR	RING, 16.94mm	
	80304124	AR	RING, 16.66mm	
	80304125	AR	RING, 16.96mm	
	80304126	AR	RING, 17.00mm	



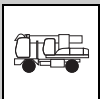
DRIVE TRAIN

Figure 5-14 Steer Axle - Differential Carrier (Continued)

Item	Part Number	Qty.	Description	Rev.
	80304127	AR	RING, 17.02mm	
	80304128	AR	RING, 17.06mm	
	80304129	AR	RING, 17.08mm	
	80304130	AR	RING, 17.12mm	
	80304131	AR	RING, 17.14mm	
	80304132	AR	RING, 17.16mm	
	80304133	AR	RING, 17.18mm	
	80304134	AR	RING, 17.22mm	
	80304135	AR	RING, 17.24mm	
	80304136	AR	RING, 17.26mm	
	80304137	AR	RING, 17.28mm	
9	80304138	1	AXLE DRIVE HOUSING	
10	80304139	2	ADJUSTING NUT	
11	80304140	1	ROLLER BEARING	
12	80304141	1	ROLLER BEARING	
13	80304142	2	SLOT PIN	
14	80304143	AR	SHIM, 2.00mm	
	80304144	AR	SHIM, 1.80mm	
	80304145	AR	SHIM, 1.50mm	
	80304146	AR	SHIM, 1.20mm	
	80304147	AR	SHIM, 1.90mm	
	80304148	AR	SHIM, 1.70mm	
	80304149	AR	SHIM, 1.60mm	
	80304150	AR	SHIM, 1.40mm	
	80304151	AR	SHIM, 1.30mm	
	80304152	AR	SHIM, 1.00mm	
	80304153	AR	SHIM, 0.90mm	
	80304154	AR	SHIM, 0.80mm	
	80304155	AR	SHIM, 0.70mm	
	80304156	AR	SHIM, 0.60mm	
	80304157	AR	SHIM, 0.50mm	
	80304158	AR	SHIM, 0.30mm	
	80304159	AR	SHIM, 0.20mm	
	80304160	AR	SHIM, 0.10mm	
	80304161	AR	SHIM, 0.75mm	
	80304162	AR	SHIM, 0.65mm	
	80304163	AR	SHIM, 1.25mm	
	80304164	AR	SHIM, 1.35mm	
	80304165	AR	SHIM, 1.45mm	
	80304166	AR	SHIM, 1.55mm	
	80304167	AR	SHIM, 1.65mm	
	80304168	AR	SHIM, 1.75mm	
	80304169	AR	SHIM, 1.85mm	
15	80304047	1	ROLLER BEARING	
16	80304170	1	BEVEL GEAR SET	

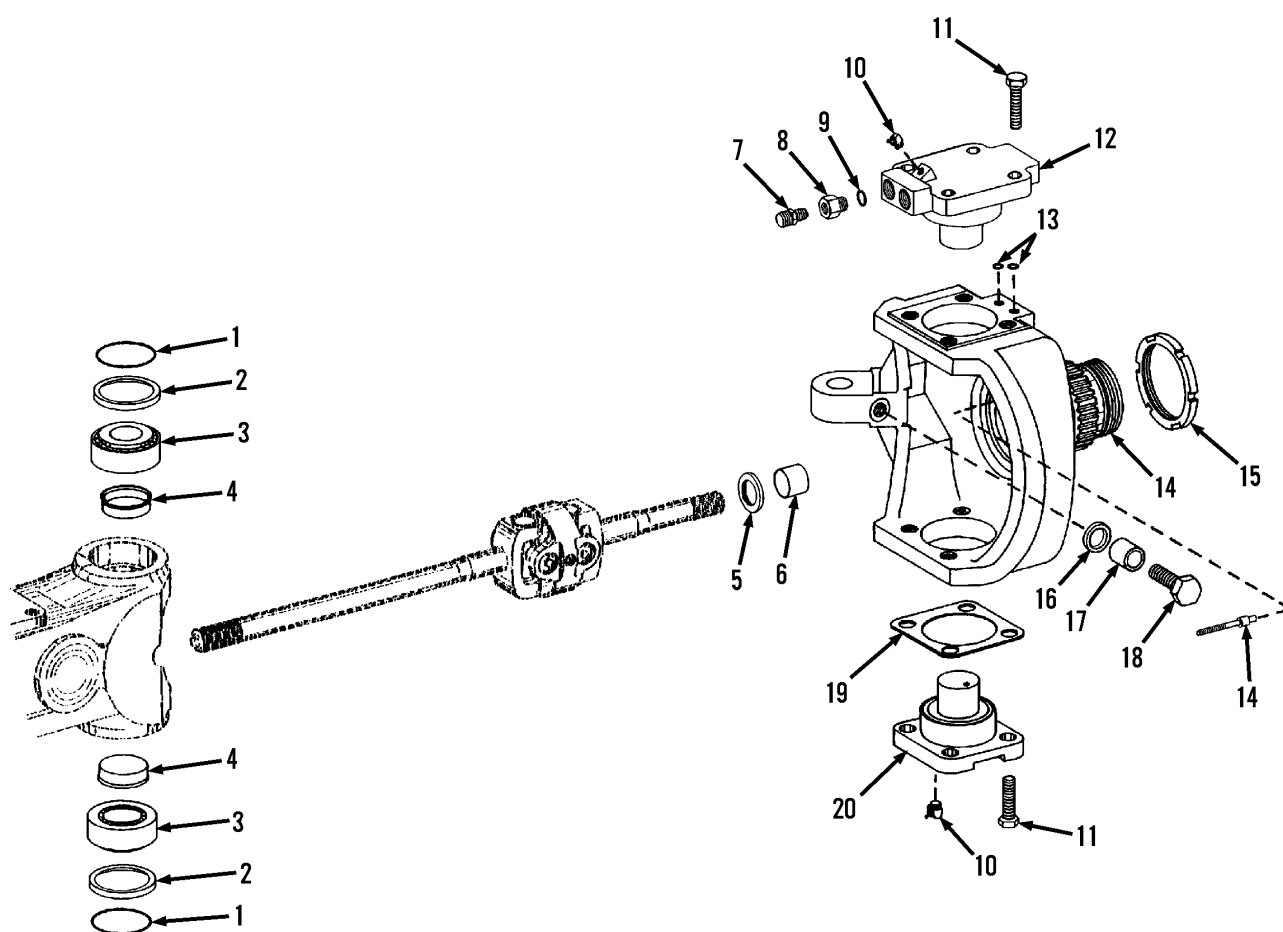
Figure 5-14 Steer Axle - Differential Carrier (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-15 Steer Axle - Wheel End



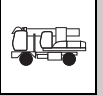


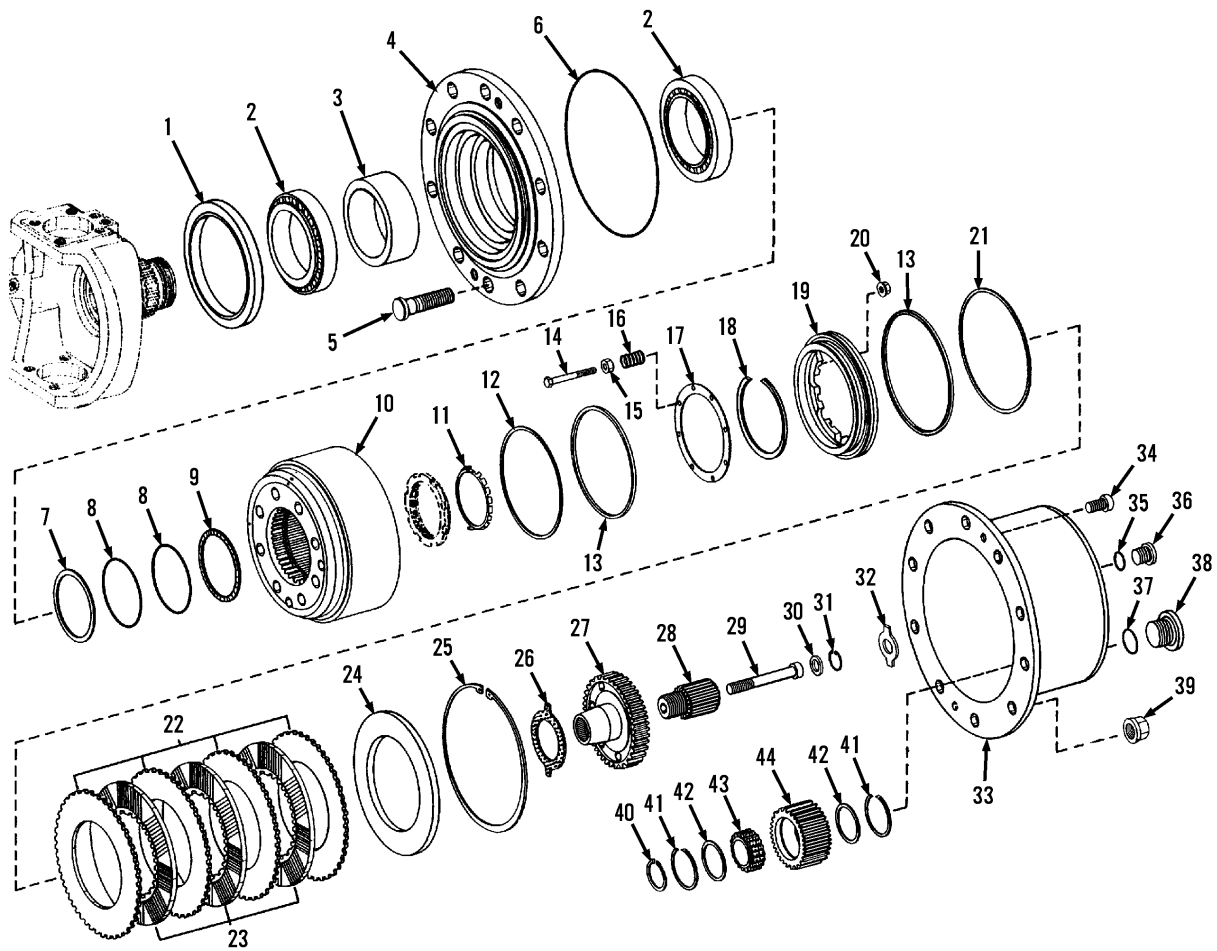
Figure 5-15 Steer Axle - Wheel End

Item	Part Number	Qty.	Description	Rev.
	80304044	1	WHEEL END, (includes all items)	
1	80304045	4	O-RING	
2	80304046	4	SEALING CAP	
3	80304047	4	ROLLER BEARING	
4	80304048	4	SEALING CAP	
5	80304049	2	SHAFT SEAL	
6	80304050	2	BUSHING	
7	80304051	2	VENT VALVE	
8	80304052	2	SCREW NECK	
9	80304053	2	O-RING	
10	80304054	4	NIPPLE	
11	80304055	8	HEX HD CAPSCREW	
12	80304056	2	BEARING PIN	
13	80304057	4	O-RING	
14	80304058	1	JOINT HOUSING, L.H., (includes item 15)	
	80304059	1	JOINT HOUSING, R.H., (includes item 15)	
15	80304060	2	SLOTTED NUT	
16	80304061	AR	WASHER, 3.0mm	
	80304062	AR	WASHER, 2.5mm	
	80304063	AR	WASHER, 2.0mm	
	80304064	AR	WASHER, 1.5mm	
17	80304065	2	PIPE	
18	80304066	2	STOP SCREW	
19	80304067	AR	SHIM, 0.6mm	
	80304068	AR	SHIM, 1.0mm	
	80304069	AR	SHIM, 1.4mm	
	80304070	AR	SHIM, 1.6mm	
	80304071	AR	SHIM, 1.8mm	
	80304072	AR	SHIM, 2.0mm	
	80304073	AR	SHIM, 0.8mm	
	80304074	AR	SHIM, 0.9mm	
	80304075	AR	SHIM, 1.1mm	
	80304076	AR	SHIM, 1.2mm	
	80304077	AR	SHIM, 1.3mm	
	80304078	AR	SHIM, 1.5mm	
20	80304079	2	BEARING PIN	



DRIVE TRAIN

Figure 5-16 Steer Axle - Gearbox & Brake



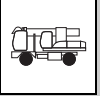


Figure 5-16 Steer Axle - Gearbox & Brake

Item	Part Number	Qty.	Description	Rev.
	80304172	2	GEARBOX & BRAKE, (includes all items)	
1	80304173	2	SHAFT SEAL	
2	80304174	4	ROLLER BEARING	
3	80304175	AR	BUSHING, 26.00mm	
	80304176	AR	BUSHING, 26.20mm	
	80304177	AR	BUSHING, 26.40mm	
	80304178	AR	BUSHING, 26.60mm	
	80304179	AR	BUSHING, 26.80mm	
	80304180	AR	BUSHING, 27.00mm	
	80304181	AR	BUSHING, 27.20mm	
	80304182	AR	BUSHING, 26.23mm	
	80304183	AR	BUSHING, 26.26mm	
	80304184	AR	BUSHING, 26.29mm	
	80304185	AR	BUSHING, 26.32mm	
	80304186	AR	BUSHING, 26.35mm	
4	80304187	2	WHEEL HUB	
5	80304188	20	WHEEL NUT	
6	80304189	2	O-RING	
7	80304190	2	SUPPORT RING	
8	80304191	4	O-RING	
9	80304192	2	SUPPORT RING	
10	80304193	2	RING GEAR	
11	80304194	2	TAB WASHER	
12	80304195	2	SUPPORT RING	
13	80304196	4	O-RING	
14	80304197	16	HEX HD CAPSCREW	
15	80304198	16	SPRING SLEEVE	
16	80304199	16	COMPRESSION SPRING	
17	80304200	2	SUPPORT SHIM	
18	80304201	2	SNAP RING	
19	80304202	2	PISTON	
20	80304203	16	LOCKING NUT	
21	80304204	2	SUPPORT RING	
22	80304205	AR	CLUTCH DISC, 2.5mm, (8 required)	
	80304206	AR	CLUTCH DISC, 3.0mm, (8 required)	
	80304207	AR	CLUTCH DISC, 2.0mm, (8 required)	
23	80304208	6	CLUTCH DISC	
24	80304209	2	END SHIM	
25	80304210	2	RETAINING RING	
26	80304211	2	THRUST WASHER	
27	80304212	2	DISC CARRIER	
28	80304213	2	SUN GEAR SHAFT	
29	80304214	2	CAP SCREW	
30	80304215	2	SHIM RING	
31	80304216	2	RETAINING RING	
32	80304217	AR	THRUST WASHER, 1.5mm	
	80304218	AR	THRUST WASHER, 1.7mm	
	80304219	AR	THRUST WASHER, 2.0mm	
	80304220	AR	THRUST WASHER, 2.2mm	



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Figure 5-16 Steer Axle - Gearbox & Brake (Continued)

Item	Part Number	Qty.	Description	Rev.
	80304221	AR	THRUST WASHER, 2.5mm	
	80304222	AR	THRUST WASHER, 2.7mm	
	80304223	AR	THRUST WASHER, 3.0mm	
33	80304224	2	PLANETARY CARRIER	
34	80304225	4	CAP SCREW	
35	80304053	2	O-RING	
36	80304226	2	PLUG, (includes item 35)	
37	80304015	2	O-RING	
38	80304025	2	PLUG, (includes item 37)	
39	80304001	20	WHEEL NUT	
40	80304227	6	RETAINING RING	
41	80304228	12	SNAP RING	
42	80304229	12	WASHER	
43	80304230	6	ROLLER BEARING	
44	80304231	6	PLANETARY GEAR	

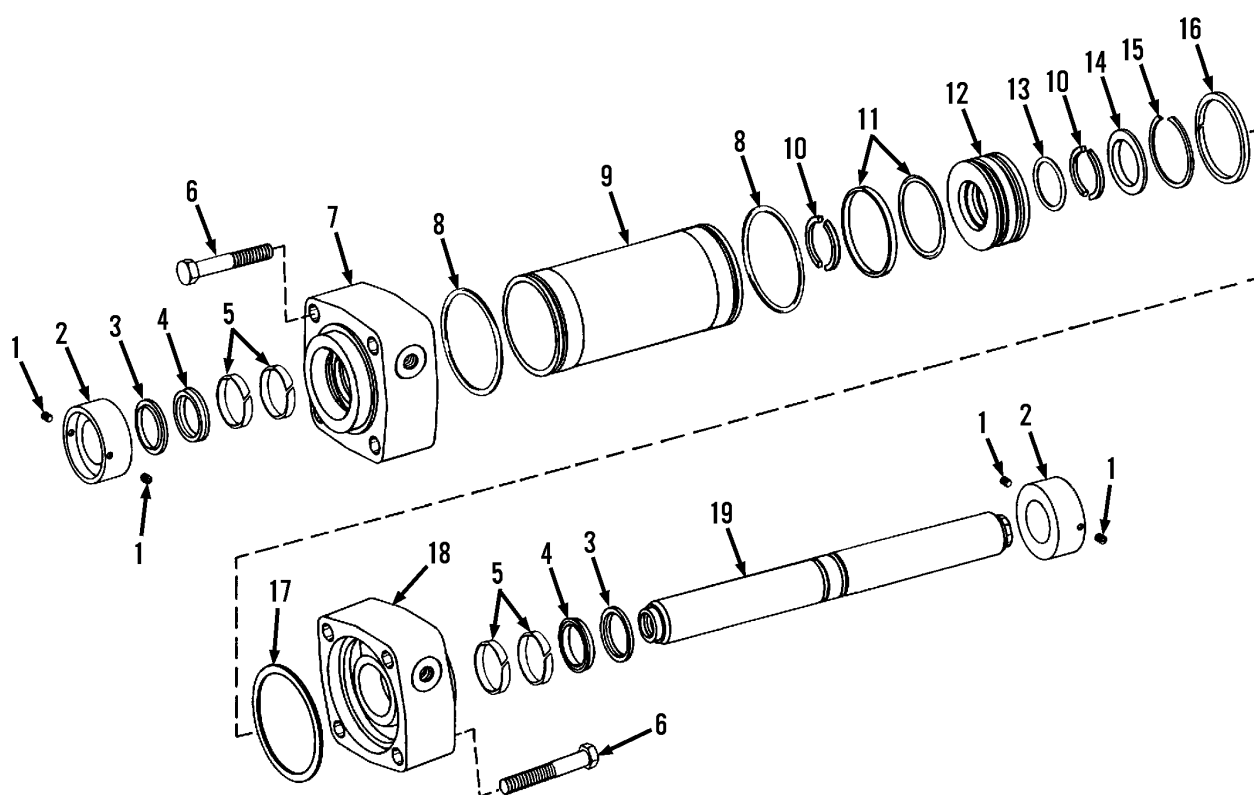
Figure 5-16 Steer Axle - Gearbox & Brake (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-17 Steer Axle - Steering Gear



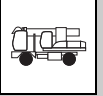


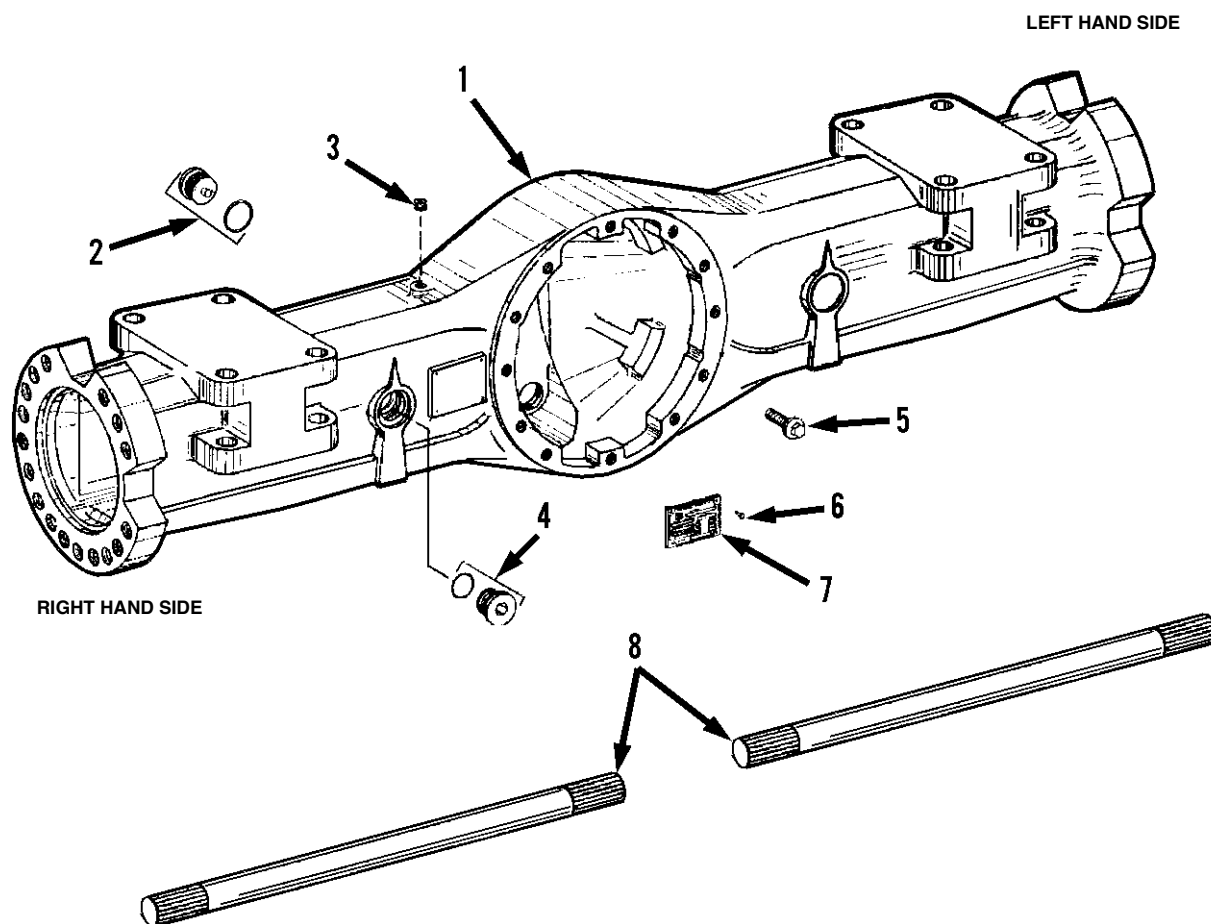
Figure 5-17 Steer Axle - Steering Gear

Item	Part Number	Qty.	Description	Rev.
	80304232	1	STEERING GEAR, (includes all items)	
1	80304233	4	SET SCREW	
2	80304234	2	STOP RING	
3	80304235	2	ROD WIPER	
4	80304236	2	U-RING	
5	80304237	4	GUIDE RING	
6	80304238	8	HEX HD CAPSCREW	
7	80304239	1	GUIDE	
8	80304240	2	O-RING	
9	80304241	1	CYLINDER	
10	80304242	2	SPLIT RING	
11	80304243	1	GASKET	
12	80304244	1	PISTON	
13	80304245	1	O-RING	
14	80304246	1	RETAINING RING	
15	80304247	1	SNAP RING	
16	80304248	1	GUIDE RING	
17	80304249	AR	WASHER, 1.80mm	
	80304250	AR	WASHER, 1.70mm	
	80304251	AR	WASHER, 1.60mm	
	80304252	AR	WASHER, 1.50mm	
	80304253	AR	WASHER, 1.40mm	
	80304254	AR	WASHER, 1.30mm	
	80304255	AR	WASHER, 1.20mm	
	80304256	AR	WASHER, 1.10mm	
	80304257	AR	WASHER, 1.00mm	
	80304260	AR	WASHER, 0.90mm	
	80304261	AR	WASHER, 0.80mm	
	80304262	AR	WASHER, 0.70mm	
18	80304258	1	GUIDE	
19	80304259	1	PISTON ROD	



DRIVE TRAIN

Figure 5-18 Drive Axle - Housing & Cover



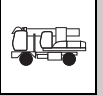
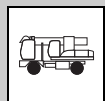


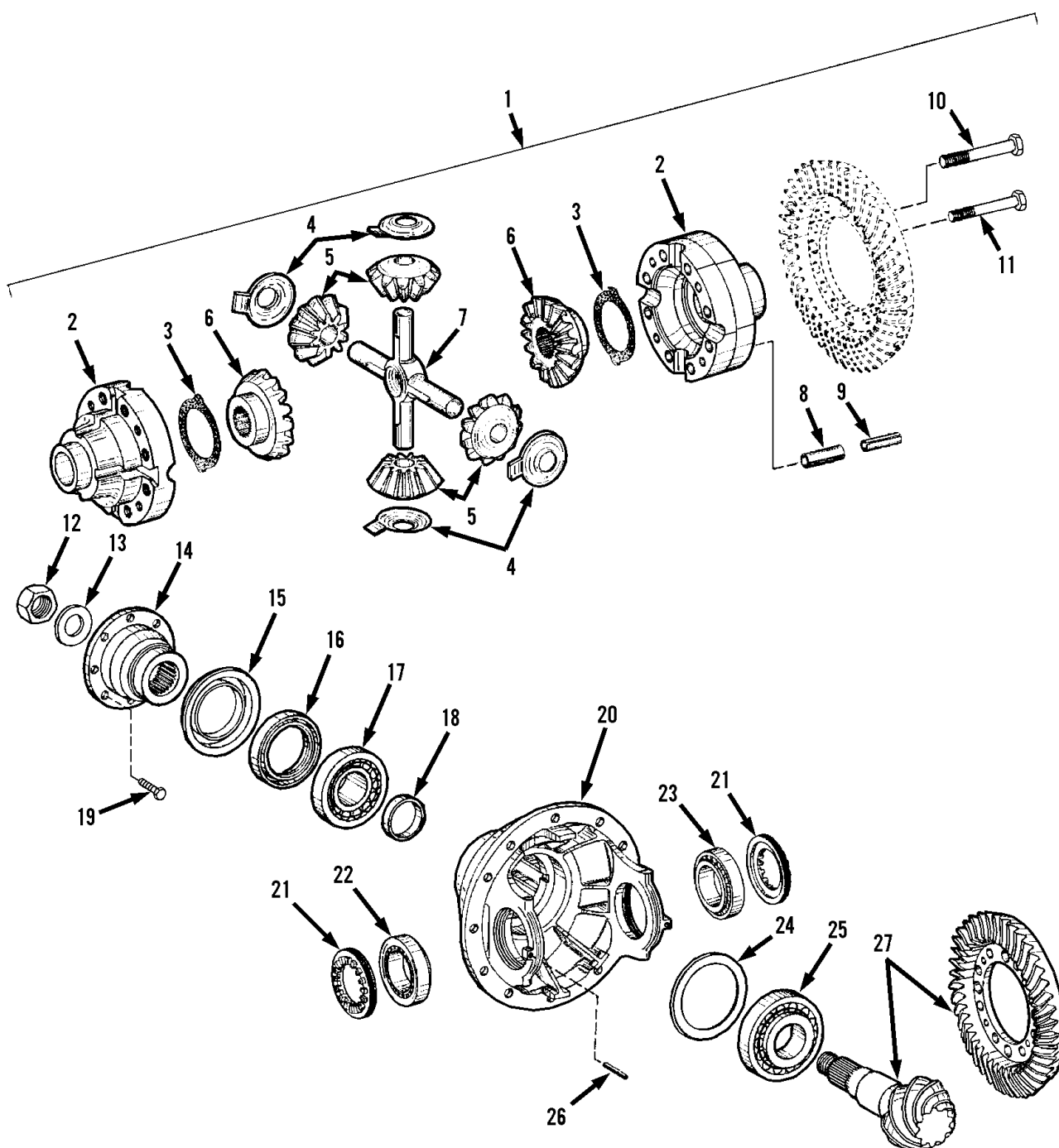
Figure 5-18 Drive Axle - Housing & Cover

Item	Part Number	Qty.	Description	Rev.
	80303005	1	DRIVE AXLE, (includes all items)	
		Ref	DIFFERENTIAL, (see Figure 5-19 for details)	
		Ref	HUB CARRIER & WHEEL END, (see Figure 5-20 for details)	
		Ref	GEARBOX & BRAKE, (see Figure 5-21 for details)	
1	80304273	1	DRIVE AXLE HOUSING	
2	80304014	1	SCREW PLUG	
	80304015	1	O-RING	
3	80304016	1	SCREW PLUG	
4	80304025	1	SCREW PLUG	
	80304015	1	O-RING	
5	80304274	12	LOCKSCREW	
6	80304019	4	GROOVED STUD	
7	80304018	1	NAMEPLATE	
8	80304275	2	AXLESHAFT	



DRIVE TRAIN

Figure 5-19 Drive Axle - Differential



PAD8410

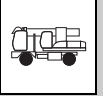


Figure 5-19 Drive Axle - Differential

Item	Part Number	Qty.	Description	Rev.
	80304276	1	DIFFERENTIAL, (includes items 12 thru 27)	
1	80304277	1	DIFFERENTIAL SPIDER, CAGE & NEST, (includes items 1 thru 11)	
2	80304034	1	DIFFERENTIAL CARRIER NEST	
3	80304035	2	THRUST WASHER	
4	80304037	4	THRUST WASHER	
5	80304038	4	DIFFERENTIAL BEVEL GEAR	
6	80304036	2	AXLE BEVEL GEAR	
7	80304039	1	DIFFERENTIAL SPIDER	
8	80304040	4	SLOTTED PIN	
9	80304041	4	SLOTTED PIN	
10	80304042	8	HEX HD CAPSCREW	
11	80304043	4	HEX HD CAPSCREW	
12	80304081	1	HEX LOCKNUT	
13	80304802	1	WASHER	
14	80304083	1	INPUT FLANGE	
15	80304085	1	DUST PROTECTOR	
16	80304086	1	SHAFT SEAL	
17	80304087	1	ROLLER BEARING	
18	80304088	AR	RING, (16.00mm thick)	
	80304089	AR	RING, (16.10mm thick)	
	80304090	AR	RING, (16.20mm thick)	
	80304091	AR	RING, (16.30mm thick)	
	80304092	AR	RING, (16.40mm thick)	
	80304093	AR	RING, (16.50mm thick)	
	80304094	AR	RING, (16.60mm thick)	
	80304095	AR	RING, (16.70mm thick)	
	80304096	AR	RING, (16.80mm thick)	
	80304097	AR	RING, (16.92mm thick)	
	80304098	AR	RING, (17.01mm thick)	
	80304099	AR	RING, (17.10mm thick)	
	80304100	AR	RING, (17.20mm thick)	
	80304101	AR	RING, (17.30mm thick)	
	80304102	AR	RING, (17.40mm thick)	
	80304103	AR	RING, (16.83mm thick)	
	80304104	AR	RING, (16.86mm thick)	
	80304105	AR	RING, (16.89mm thick)	
	80304106	AR	RING, (16.95mm thick)	
	80304107	AR	RING, (16.98mm thick)	
	80304108	AR	RING, (17.04mm thick)	
	80304109	AR	RING, (17.07mm thick)	
	80304110	AR	RING, (16.56mm thick)	
	80304111	AR	RING, (16.62mm thick)	
	80304112	AR	RING, (16.64mm thick)	
	80304113	AR	RING, (16.68mm thick)	
	80304114	AR	RING, (16.72mm thick)	
	80304115	AR	RING, (16.74mm thick)	
	80304116	AR	RING, (16.75mm thick)	
	80304117	AR	RING, (16.76mm thick)	
	80304118	AR	RING, (16.78mm thick)	



DRIVE TRAIN

Figure 5-19 Drive Axle - Differential (Continued)

Item	Part Number	Qty.	Description	Rev.
18	80304119	AR	RING, (16.82mm thick)	
	80304120	AR	RING, (16.84mm thick)	
	80304121	AR	RING, (16.88mm thick)	
	80304122	AR	RING, (16.90mm thick)	
	80304123	AR	RING, (16.94mm thick)	
	80304124	AR	RING, (16.66mm thick)	
	80304125	AR	RING, (16.96mm thick)	
	80304126	AR	RING, (17.00mm thick)	
	80304127	AR	RING, (17.02mm thick)	
	80304128	AR	RING, (17.06mm thick)	
	80304129	AR	RING, (17.08mm thick)	
	80304130	AR	RING, (17.12mm thick)	
	80304131	AR	RING, (17.14mm thick)	
	80304132	AR	RING, (17.16mm thick)	
	80304133	AR	RING, (17.18mm thick)	
	80304134	AR	RING, (17.22mm thick)	
	80304135	AR	RING, (17.24mm thick)	
	80304136	AR	RING, (17.26mm thick)	
	80304137	AR	RING, (17.28mm thick)	
19	80304084	8	HEX HD CAPSCREW	
20	80304279	1	DIFFERENTIAL HOUSING	
21	80304139	2	ADJUSTING NUT	
22	80304140	1	ROLLER BEARING	
23	80304141	1	ROLLER BEARING	
24	80304143	1	WASHER, (2.00mm thick)	
	80304144	1	WASHER, (1.80mm thick)	
	80304145	1	WASHER, (1.50mm thick)	
	80304146	1	WASHER, (1.20mm thick)	
	80304147	1	WASHER, (1.90mm thick)	
	80304148	1	WASHER, (1.70mm thick)	
	80304149	1	WASHER, (1.60mm thick)	
	80304150	1	WASHER, (1.40mm thick)	
	80304151	1	WASHER, (1.30mm thick)	
	80304152	1	WASHER, (1.00mm thick)	
	80304153	1	WASHER, (0.90mm thick)	
	80304154	1	WASHER, (0.80mm thick)	
	80304155	1	WASHER, (0.70mm thick)	
	80304156	1	WASHER, (0.60mm thick)	
	80304157	1	WASHER, (0.50mm thick)	
	80304158	1	WASHER, (0.30mm thick)	
	80304159	1	WASHER, (0.20mm thick)	
	80304160	1	WASHER, (0.10mm thick)	
	80304161	1	WASHER, (0.75mm thick)	
	80304162	1	WASHER, (0.65mm thick)	
	80304163	1	WASHER, (1.25mm thick)	
	80304164	1	WASHER, (1.35mm thick)	
	80304165	1	WASHER, (1.45mm thick)	
	80304166	1	WASHER, (1.55mm thick)	
	80304167	1	WASHER, (1.65mm thick)	

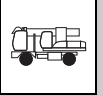


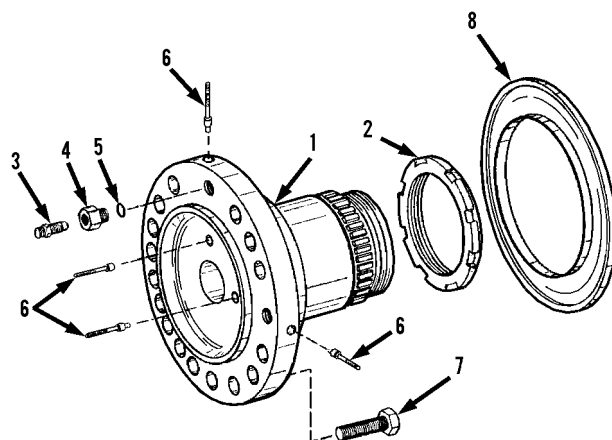
Figure 5-19 Drive Axle - Differential (Continued)

Item	Part Number	Qty.	Description	Rev.
	80304168	1	WASHER, (1.75mm thick)	
	80304169	1	WASHER, (1.85mm thick)	
25	80304047	1	ROLLER BEARING	
26	80304142	2	SLOTTED PIN	
27	80304170	1	RING GEAR & PINION SET	



DRIVE TRAIN

Figure 5-20 Drive Axle - Hub Carrier & Wheel End



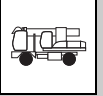
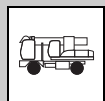


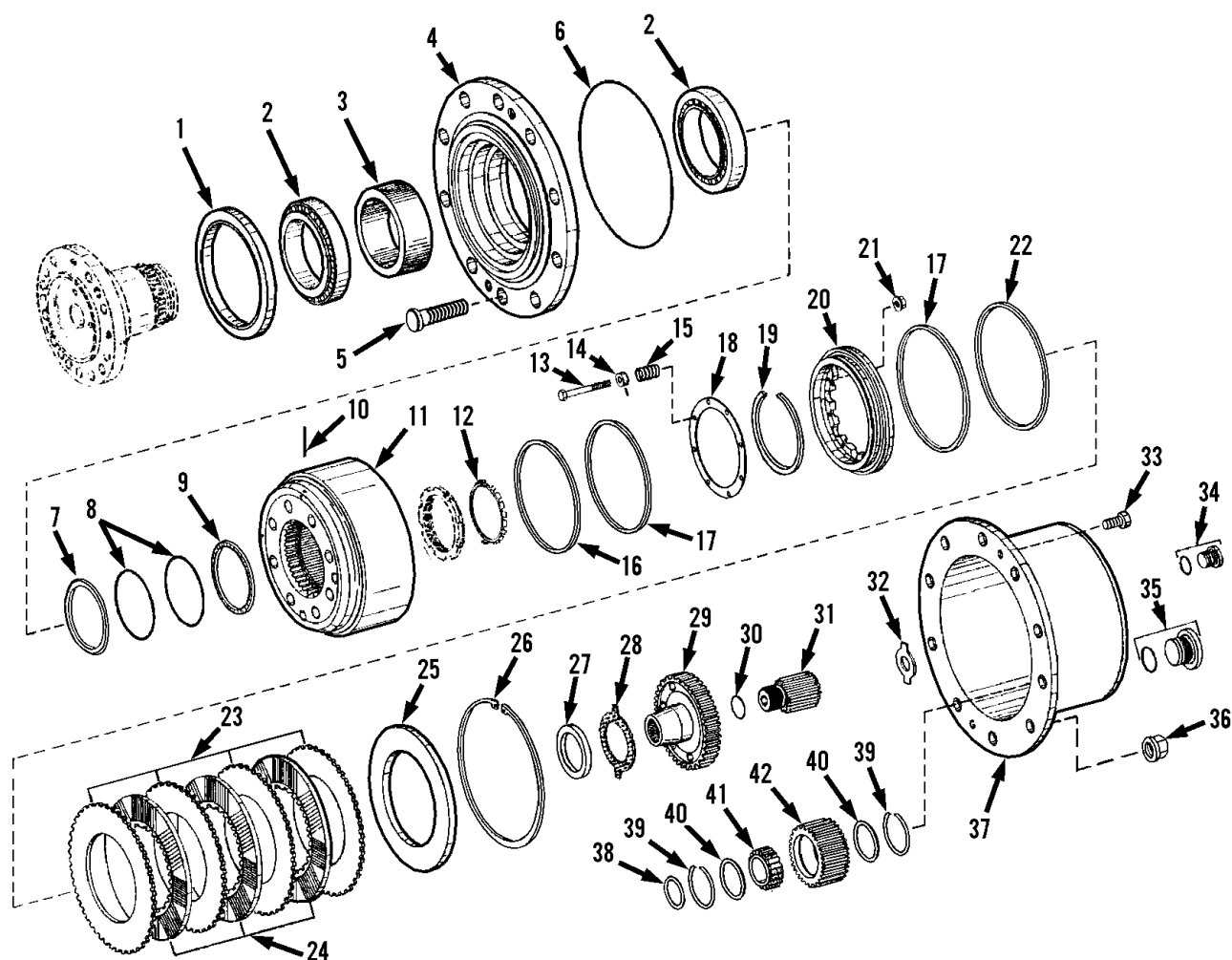
Figure 5-20 Drive Axle - Hub Carrier & Wheel End

Item	Part Number	Qty.	Description	Rev.
	80304280	1	HUB CARRIER & WHEEL END, (includes all items)	
1	80304281	1	HUB CARRIER, (includes item 2)	
2	80304282	1	SLOTTED NUT	
3	80304051	1	VENT VALVE	
4	80304283	1	SCREW NECK	
5	80304053	1	O-RING	
6	80304284	4	PLUG	
7	80304285	16	HEX HD CAPSCREW	
8	80304286	1	DUST SHIELD	



DRIVE TRAIN

Figure 5-21 Drive Axle - Gearbox & Brake



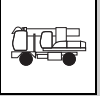


Figure 5-21 Drive Axle - Gearbox & Brake

Item	Part Number	Qty.	Description	Rev.
	80304265	1	DRIVE AXLE GEARBOX & BRAKE, (includes all items except items 5, 27, 30, 31, 33 & 36)	
	80304266	1	DRIVE AXLE GEARBOX AUXILIARY COMPONENTS, (includes items 5, 27, 30, 31, 33 & 36)	
1	80304173	1	CASSETTE RING	
2	80304174	2	ROLLER BEARING	
3	80304175	AR	BUSHING, (26.00mm thick)	
	80304176	AR	BUSHING, (26.20mm thick)	
	80304177	AR	BUSHING, (26.40mm thick)	
	80304178	AR	BUSHING, (26.60mm thick)	
	80304179	AR	BUSHING, (26.80mm thick)	
	80304180	AR	BUSHING, (27.00mm thick)	
	80304181	AR	BUSHING, (27.20mm thick)	
	80304182	AR	BUSHING, (26.23mm thick)	
	80304183	AR	BUSHING, (26.26mm thick)	
	80304184	AR	BUSHING, (26.29mm thick)	
	80304185	AR	BUSHING, (26.32mm thick)	
	80304186	AR	BUSHING, (26.35mm thick)	
4	80304187	1	HUB	
5	80304188	10	WHEEL STUD	
6	80304189	1	O-RING	
7	80304190	1	SUPPORT RING	
8	80304191	2	O-RING	
9	80304192	1	SUPPORT RING	
10	80304267	2	PLUG	
11	80304268	1	RING GEAR	
12	80304194	1	TAB WASHER	
13	80304197	8	HEX HD CAPSCREW	
14	80304198	8	SPRING SLEEVE	
15	80304199	8	SPRING	
16	80304195	1	SUPPORT RING	
17	80304196	2	U-RING	
18	80304200	1	SUPPORT SHIM	
19	80304201	1	SNAP RING	
20	80304202	1	PISTON	
21	80304203	8	LOCKING NUT	
22	80304204	1	SUPPORT RING	
23	80304205	4	CLUTCH DISC, (2.5mm thick)	
	80304206	4	CLUTCH DISC, (3.0mm thick)	
	80304207	4	CLUTCH DISC, (2.0mm thick)	
24	80304208	3	CLUTCH DISC	
25	80304209	1	END SHIM	
26	80304210	1	RETAINING RING	
27	80304269	1	SHAFT SEAL	
28	80304211	1	THRUST WASHER	
29	80304212	1	DISC CARRIER	
30	80304270	1	O-RING	
31	80304271	1	SUN GEAR SHAFT	
32	80304217	1	THRUST WASHER, (1.5mm thick)	



DRIVE TRAIN

Figure 5-21 Drive Axle - Gearbox & Brake (Continued)

Item	Part Number	Qty.	Description	Rev.
	80304218	1	THRUST WASHER, (1.7mm thick)	
	80304219	1	THRUST WASHER, (2.0mm thick)	
	80304220	1	THRUST WASHER, (2.2mm thick)	
	80304221	1	THRUST WASHER, (2.5mm thick)	
	80304222	1	THRUST WASHER, (2.7mm thick)	
	80304223	1	THRUST WASHER, (3.0mm thick)	
33	80304225	2	HEX HD CAPSCREW	
34	80304226	1	SCREW PLUG	
	80304053	1	O-RING	
35	80304025	1	SCREW PLUG	
	80304015	1	O-RING	
36	80304001	10	LUG NUT	
37	80304224	1	PLANETARY CARRIER	
38	80304227	3	RETAINING RING	
39	80304228	6	SNAP RING	
40	80304229	6	WASHER	
41	80304272	3	ROLLER BEARING	
42	80304231	3	PLANETARY GEAR	

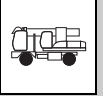


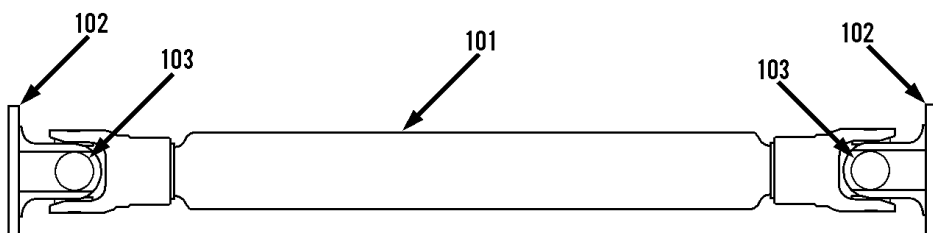
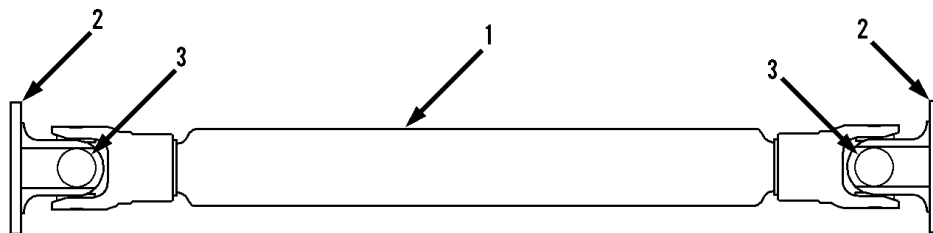
Figure 5-21 Drive Axle - Gearbox & Brake (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-22 Drive Axle - Driveshafts



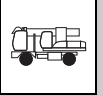


Figure 5-22 Drive Axle - Driveshafts

Item	Part Number	Qty.	Description	Rev.
1	80303016	1	REAR DRIVESHAFT, (includes items 1 thru 3)	
2	80304264	2	FLANGE	
3	80304263	2	UNIVERSAL JOINT KIT	
4 to 100	Not Used			
101	80303016	1	REAR DRIVESHAFT, (includes items 101 thru 103)	
102	80304264	2	FLANGE	
103	80304263	2	UNIVERSAL JOINT KIT	

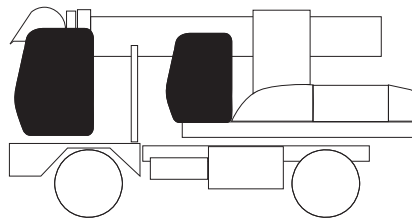


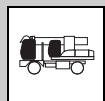
DRIVE TRAIN

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SECTION 6

CAB





CAB

Figure 6-1 Operators Cab

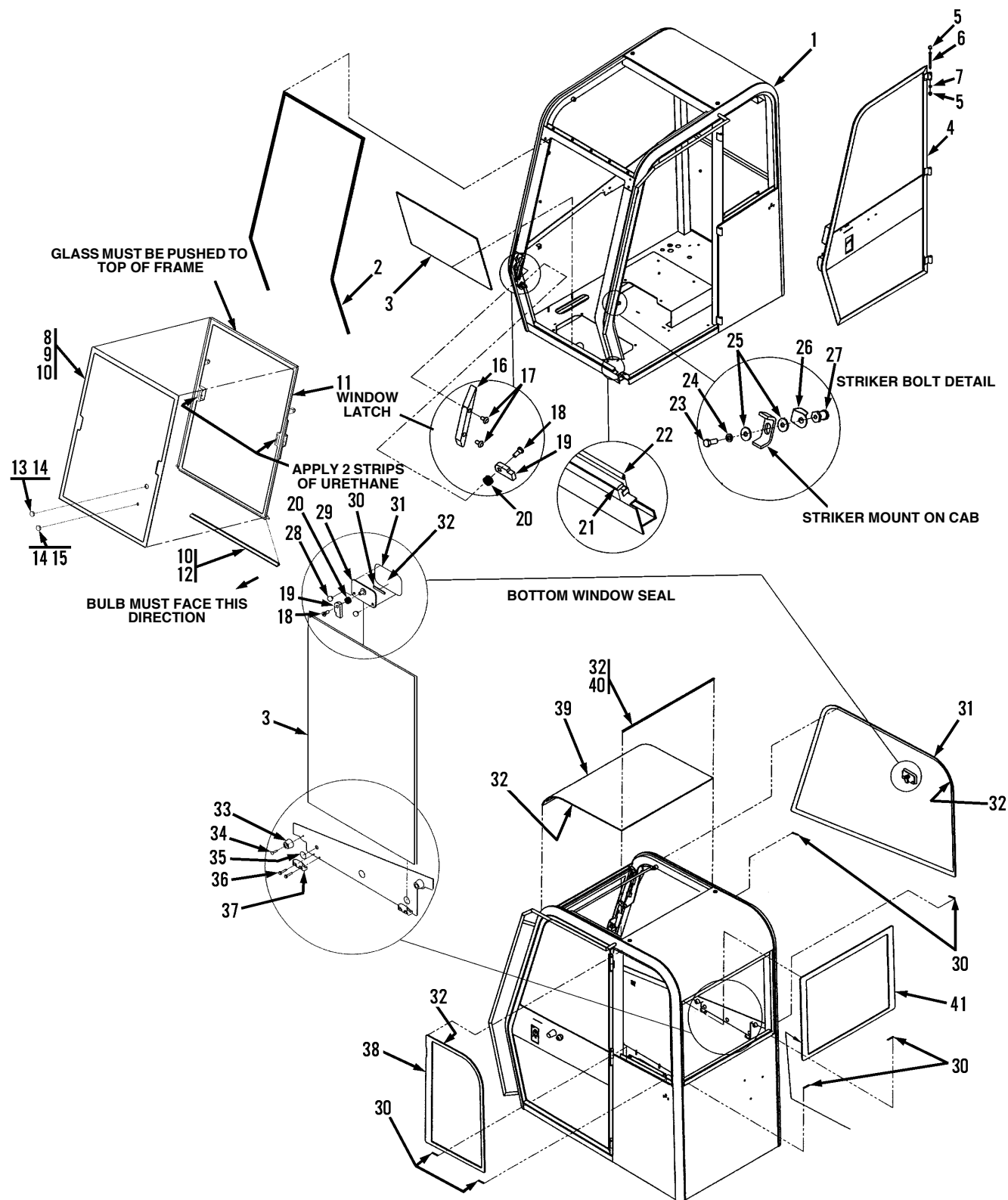
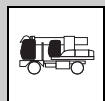




Figure 6-1 Operators Cab

Item	Part Number	Qty.	Description	Rev.
1	80363001	1	OPERATORS CAB, (includes all items on Figures 6-1 & 6-2)	
2	80364001	12.25'	SEAL	
3	80364002	1	LOWER FRONT WINDOW	
4		Ref	CAB DOOR ASSY, (see Figure 6-3 for details)	
5	80364004	6	CAP	
6	80364005	3	HEX HD CAPSCREW, 3/8-16X4-1/2, GR8	
7	80364006	3	HEX LOCKNUT, 3/8-16	
8	80364007	1	FRONT WINDOW ASSY, (includes items 9 thru 16)	
9	80364008	1	FRONT WINDOW	
10	80364009	AR	URETHANE SEALANT	
11	80364010	1	DOME PLUG, 1-1/8	
12	80364011	1	DOME PLUG, 5/8	
13	80364012	AR	CLEAR SEALANT	
14	80364013	2.42'	BULB SEAL	
15	80364014	1	WINDOW FRAME WELDMENT	
16	80364015	2	BOTTOM RAIL INSERT	
17	80364016	4	SCREW, 1/4-20X1/2	
18	80264059	4	SHOULDER BOLT, 5/16-18X3/4	
19	80364017	3	LATCH BOLT	
20	80364018	3	SPRING	
21	80364019	2.6'	SEAL	
22	80364020	4.9'	TRIM	
23	91334024	1	HEX HD CAPSCREW, 3/8-16X7/8, GR8	
24	80364021	3	LOCKWASHER, 3/8	
25	91344042	2	FLAT WASHER	
26	80364022	1	STRIKER BOLT GUARD	
27	80364023	1	STRIKER BOLT	
28	80364024	2	BUMPER	
29	80364025	1	TOP STORAGE BRACKET WELDMENT	
30	80264031	7	BLOCK	
31	80364026	1	WINDOW	
32	80364027	AR	SEALANT	
33	80264069	2	KNOB	
34	80364028	2	SCREW	
35	80364029	3	BUMPER	
36	91334004	4	SCREW, #10-32X1	
37	91334005	2	WINDOW CLIP	
38	80364030	1	WINDOW	
39	80364031	1	SKYLIGHT	
40	80364032	2.75'	TRIM	
41	80364033	1	WINDOW	



CAB

Figure 6-2 Operators Cab

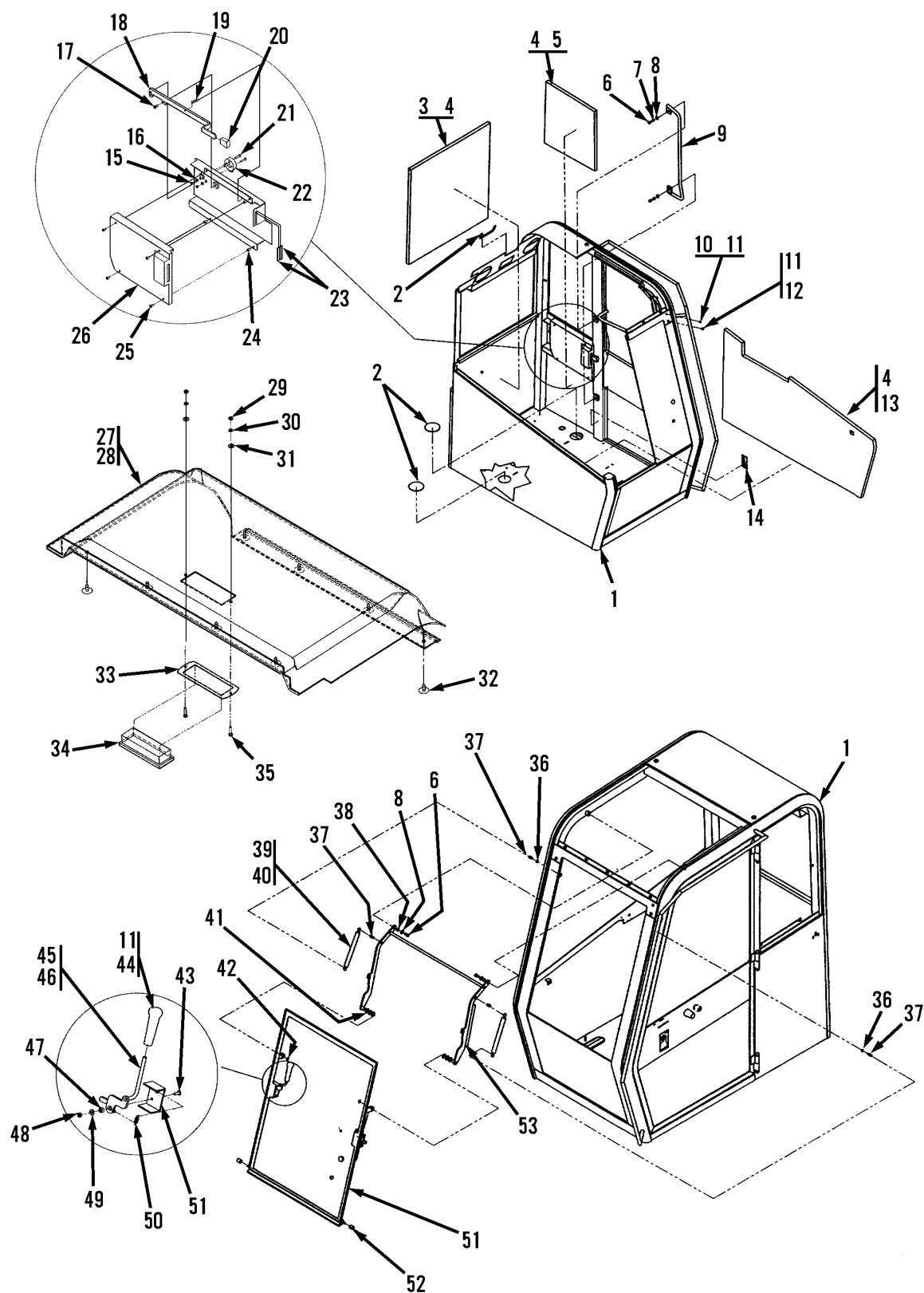




Figure 6-2 Operators Cab

Item	Part Number	Qty.	Description	Rev.
1	80363001	1	OPERATORS CAB, (includes all items in Figures 6-1 & 6-2)	
2	80364020	AR	TRIM	
3	80364034	1	REAR FOAM	
4	91344026	AR	ADHESIVE	
5	80364035	1	LEFT SIDE FOAM	
6	80364036	4	HEX HD CAPSCREW, 3/8-16X3/4, GR8	
7	80364021	2	LOCKWASHER, 3/8	
8	80364037	4	FLAT WASHER, 3/8	
9	80364038	1	GRAB RAIL	
10	80264035	1	HOLE PLUG	
11	80364039	AR	SEALANT	
12	80264112	2	HOLE PLUG	
13	80364040	1	RIGHT SIDE FOAM	
14	80364041	1	SERIAL TAG	
15	80264072	2	HEX NUT, 1/4-20	
16	80364042	2	FLAT WASHER, 1/4	
17	80264059	4	HEX HD CAPSCREW, 5/16-18X3/4	
18	80364043	1	HOLD OPEN LEVER	
19	80264058	1	SPRING	
20	80264057	1	GRIP	
21	91344017	2	TORX HD SCREW, 1/4-20X1/4, GR5	
22	80364044	1	DOOR RETAINER	
23	80364045	AR	TRIM	
24	80364046	4	INSERT NUT, 1/4-20	
25	80264045	4	TORX HD SCREW, 1/4-20X5/8, GR5	
26	80364047	1	COVER	
27	80364048	1	HEADLINER ASSY, (includes items 28 thru 35)	
28	80364049	1	HEADLINER	
29	80264070	2	HEX NUT, #10-24	
30	80364050	2	LOCKWASHER	
31	80364051	2	FLAT WASHER	
32	80364052	8	FASTENER	
33	80364053	1	BEZEL	
34	80364054	1	DOME LIGHT	
35	80364055	2	SCREW	
36	80264098	2	LOCKWASHER	
37	80264097	4	STUD	
38	80364056	2	BUSHING	
39	80264096	2	GAS SPRING	
40	80264095	4	CLIP	
41	80364057	6	FLAT WASHER	
42	80364058	2	RETAINING RING	
43	80264053	2	TORX HD SCREW, 1/4-20X3/4, GR5	
44	80364059	2	KNOB	
45	80364060	1	LATCH HANDLE, R.H., (shown)	
46	80364061	1	LATCH HANDLE, L.H., (not shown)	
47	80364062	2	BUSHING	
48	91344040	2	HEX LOCKNUT, 1/4-20	
49	80364063	2	FLAT WASHER	



CAB

Figure 6-2 Operators Cab (Continued)

Item	Part Number	Qty.	Description	Rev.
50	80364064	2	SPRING	
51		Ref	FRONT WINDOW ASSY, (see Figure 6-1 for details)	
52	80264094	2	WINDOW ROLLER	
53	80364065	1	LINK WELDMENT	

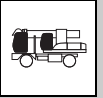


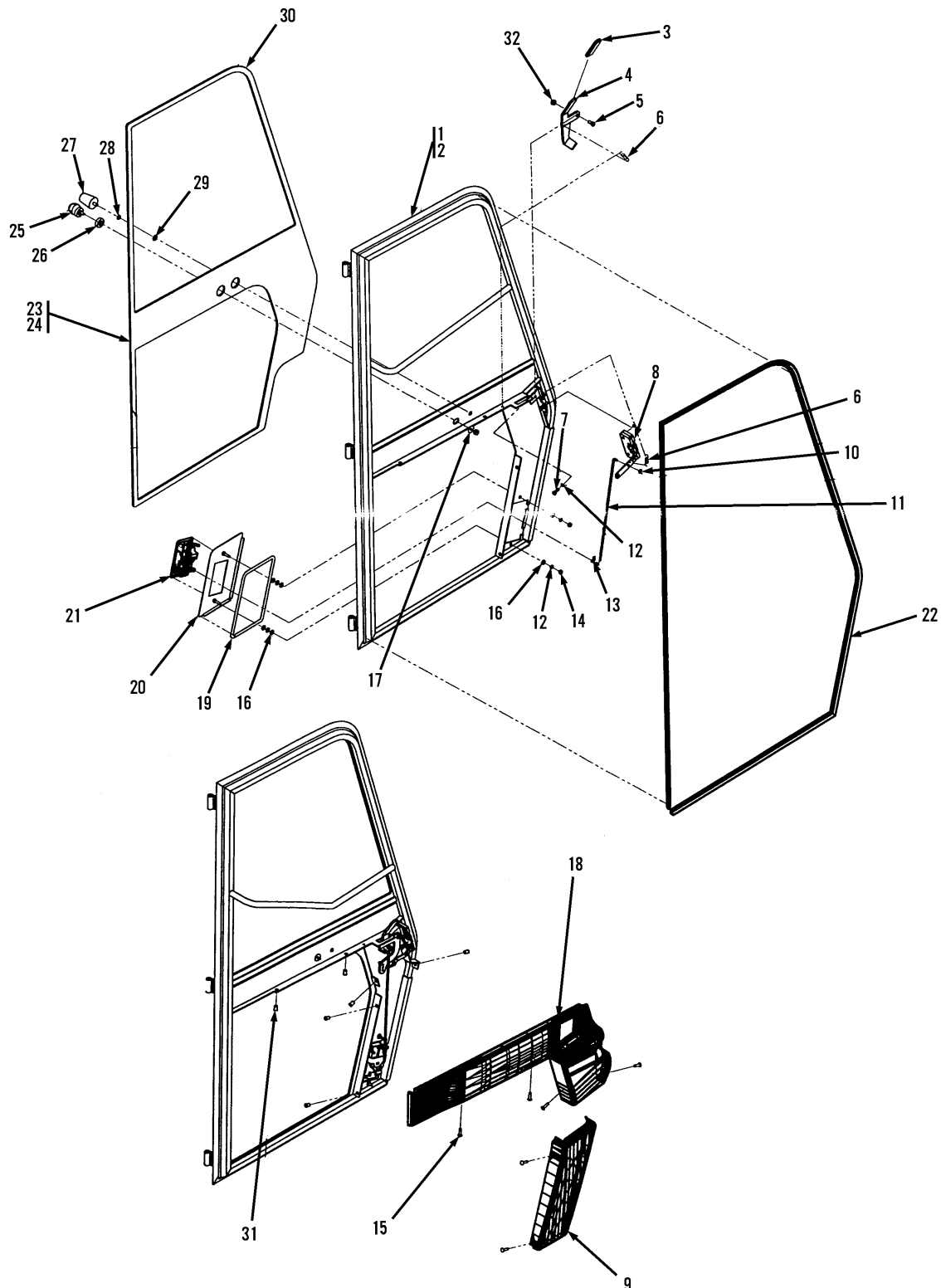
Figure 6-2 Operators Cab (Continued)

Item	Part Number	Qty.	Description	Rev.



CAB

Figure 6-3 Cab Door



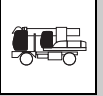
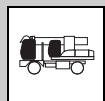


Figure 6-3 Cab Door

Item	Part Number	Qty.	Description	Rev.
1	80364149	1	CAB DOOR, (includes all items)	
2	80364139	1	DOOR WELDMENT	
3	80364148	1	GRIP	
4	80364144	1	DOOR HANDLE	
5	80264059	1	BOLT	
6	80264058	2	SPRING	
7	80384189	4	SCREW	
8	91344037	1	CAM LATCH	
9	80364147	1	DOOR COVER, (lower plastic)	
10	80364145	1	RETAINER	
11	80364143	1	DOOR ROD	
12	80384190	6	LOCKWASHER	
13	80384185	1	CLIP	
14	80264072	2	HEX NUT	
15	91344024	6	SCREW	
16	80364063	8	FLAT WASHER	
17	80264082	1	FLAT WASHER	
18	80364146	1	DOOR COVER, (upper plastic)	
19	91484029	2.6'	BULB SEAL	
20	80364142	1	RELEASE MOUNT WELDMENT	
21	80384184	1	PADDLE LATCH	
22	80364001	1	SEAL	
23	80364009	1	URETHANE	
24	91404302	1	ACTIVATOR	
25	80364140	1	DOOR RETAINER	
26	80364141	1	BUSHING, SHOCK MOUNT	
27	91404300	1	RUBBER BUMPER	
28	80264098	1	WASHER	
29	91334032	1	WASHER	
30	80364138	1	DOOR WINDOW	
31	80364046	6	INSERT NUT	
32	80264093	1	LOCKNUT	



CAB

Figure 6-4 Cab Interior Components

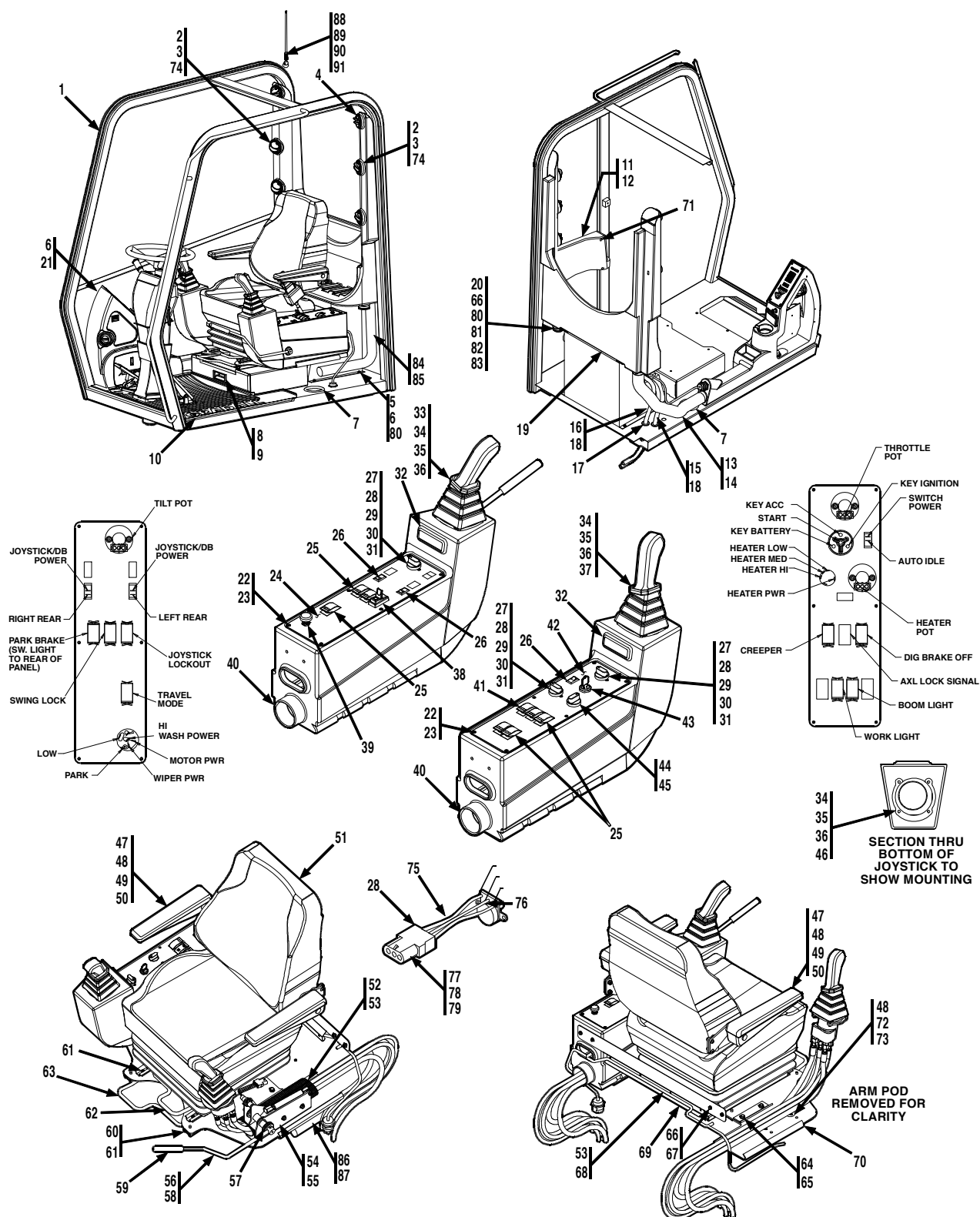
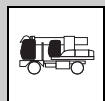




Figure 6-4 Cab Interior Components

Item	Part Number	Qty.	Description	Rev.
1		Ref	OPERATORS CAB, (see Figures 6-1 & 6-2 for details)	
2	88521304	2	HEX LOCKNUT, 1/4-20	
3	88561002	2	FLAT WASHER, 1/4	
4	80363106	4	AIR DIFFUSER VENT	
5		Ref	CAB HEATER, (see Figure 6-7 for details)	
6	80263012	6	WHIZ-LOK SCREW, 1/4-20X1/2	
7		AR	FLEX GUARD	
8	80363059	1	SEAT RISER DRAWER	
9	80363060	1	LATCH	
10	80363163	1	FLOOR MAT	
11	80363105	1	INSIDE LATCH COVER	
12	88201005	3	HEX HD CAPSCREW, 1/4-20X1, GR5	
13		3'	FLEXIBLE AIR DUCT	
14	90027187	2	TY-RAP	
15		AR	HEATER HOSE	
16		AR	HEATER HOSE, (red)	
17	85131075	2	GROMMET	
18	86671187	2	HEATER HOSE CLAMP	
19	90200755	AR	GASKA-TAPE	
20	80363193	1	PLENUM	
21		Ref	CAB CONSOLE, (see Figure 6-5 for details)	
22	80363034	12	TIMMERMAN NUT	
23	80363033	12	FLAT HD SCREW	
24	80363169	1	POD PANEL, L.H.	
25	91403304	7	CARLING SWITCH	
26	80363030	3	MINI ROCKER SWITCH	
27	80363069	3	KNOB, (3/16 shaft)	
28	80365027	3	POTENTIOMETER, (8 ohm)	
29	88501610	6	HEX NUT, #8-32	
30	88241018	6	SOCKET FLAT HD CAPSCREW, #8-32X5/8	
31	88561104	6	FLAT WASHER, #8	
32	80363107	2	POD LIGHT	
33		Ref	JOYSTICK ASSY, L.H., (see Figure 7-1 for details)	
34	88211042	8	SOCKET HD CAPSCREW, 1/4-20X1, GR8	
35	88551009	8	LOCKWASHER, 1/4	
36	88561002	8	FLAT WASHER, 1/4	
37		Ref	JOYSTICK ASSY, R.H., (see Figure 7-1 for details)	
38	80363132	1	PADDLE SWITCH	
39	83953038	1	WIPER/WASHER SWITCH	
40	80363006	2	POD	
41	91403320	1	CARLING SWITCH	
42	80363170	1	POD PANEL, R.H.	
43	91033317	1	IGNITION SWITCH	
44	80964001	1	BLOWER SWITCH	
45	80363029	1	KNOB, (1/4 shaft)	
46	80361043	2	TAPPED PLATE	
47	80361021	2	SEAT ARM MOUNT BRACKET	
48	88261024	6	BUTTON HD CAPSCREW, 5/16-18X1	
49	88501005	4	HEX NUT, 5/16-18	



CAB

Figure 6-4 Cab Interior Components (Continued)

Item	Part Number	Qty.	Description	Rev.
50	88551010	4	LOCKWASHER, 5/16	
51		Ref	CAB SEAT, (see Figure 6-6 for details)	
52	83953053	1	SLEEVE	
53	90027187	6	TY-RAP	
54	80365023	1	PILOT CUT-OFF ASSY	
55	91363018	4	WHIZ-LOK SCREW, 5/16-18X1	
56	88501108	1	HEX NUT, 1/4-13	
57	85131075	1	GROMMET	
58	80363083	1	LEVER	
59	80363045	1	KNOB	
60	80363005	1	SLIDE RAIL KIT	
61	88212223	8	SOCKET HD CAPSCREW, 5/16-18X1/2, GR8	
62	80363061	1	TOP SLIDE RELEASE LEVER	
63	80363062	1	BOTTOM SLIDE RELEASE LEVER	
64	80361002	2	CLAMP ANGLE	
65	77143003	4	WHIZ-LOK SCREW, 5/16-18X5/8	
66	77143013	6	WHIZ-LOK NUT, 1/4-20	
67	80263012	4	WHIZ-LOK SCREW, 1/4-20X1/2	
68	80363114	1	CAB HARNESS	
69	80361003	1	HARNESS SUPPORT	
70	80361001	1	FORMED SEAT PLATE	
71	88201009	1	HEX HD CAPSCREW, 1/4-20X2, GR5	
72	91023098	2	FENDER WASHER, 5/16	
73	77143006	2	WHIZ-LOK NUT, 5/16-18	
74	91083533	2	FENDER WASHER	
75		AR	WIRE, RED, (18 GA.)	
76	80363067	1	POTENTIOMETER, 8 OHM	
77	80963065	3	CABLE SEAL, GREEN	
78	80963069	3	MALE PIN TERMINAL	
79	80963060	1	SHROUD	
80	88561003	6	FLAT WASHER, 5/16	
81	80364179	1	CARGO NET	
82	80364180	2	STUD	
83	80364181	10	SCREW	
84		3'	FLEXIBLE AIR DUCT	
85	90027187	2	TY-RAP	
86	80363229	1	LOUVER ASS	
87	80361100	1	LOUVER BRACKET	
88	80263030	1	ANTENNA	
89	80363121	1	ANTENNA LEAD, 12"	
90	80363120	1	ANTENNA LEAD, 48"	
91	14404173	AR	CLEAR SILICONE	

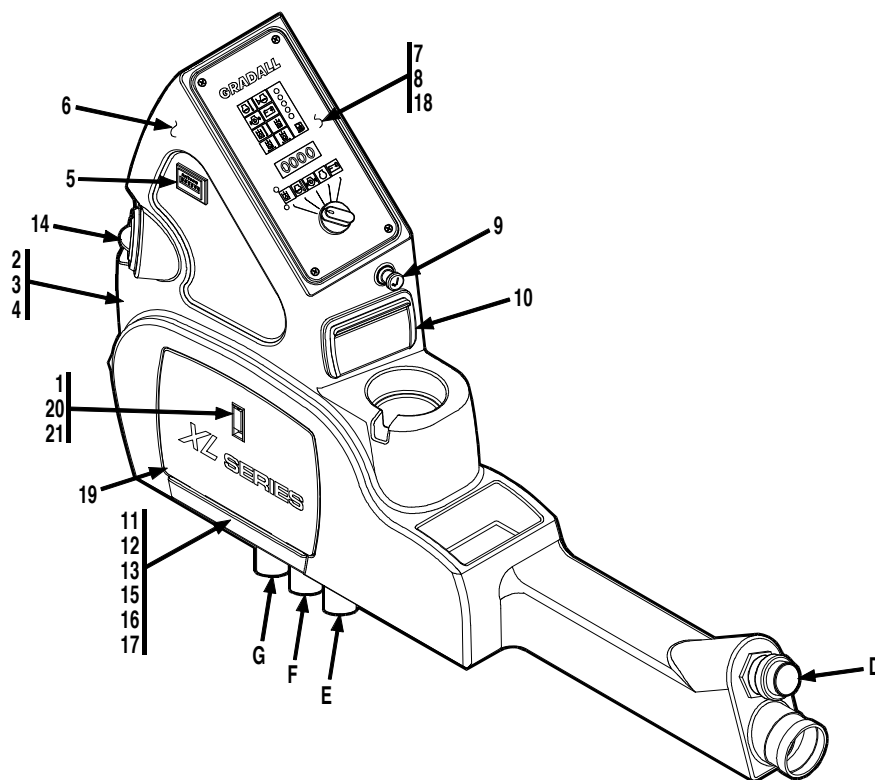


Figure 6-4 Cab Interior Components (Continued)

Item	Part Number	Qty.	Description	Rev.



Figure 6-5 Cab Console



SEE FIGURE 10-2 FOR THE DETAILED LAYOUT OF
THE PRINTED CIRCUIT BOARD (item 12)

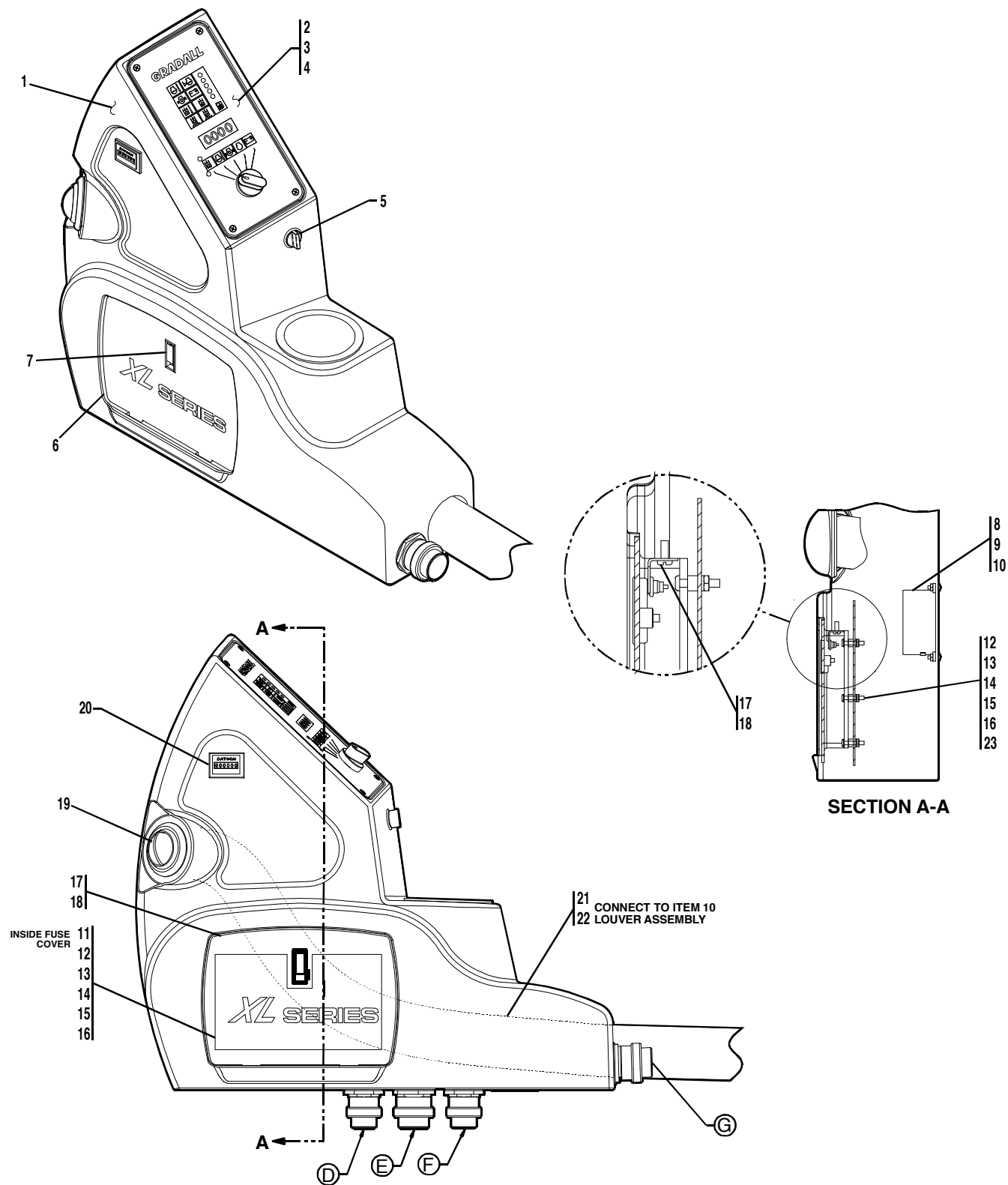


Figure 6-5 Cab Console

Item	Part Number	Qty.	Description	Rev.
1	80363066	1	COMPRESSION LATCH	
2	80363116	1	ALTERNATING FLASHER	
3	88301070	2	ROUND HD MACHINE SCREW, #8-32X1/2	
4	88501610	2	HEX NUT, #8-32	
5	91143130	1	HOURLMETER	
6	80363007	1	CONSOLE	
7	80363023	1	ELECTRONIC MONITORING UNIT	
8	80363033	4	FLAT HD TORX SCREW, #10-1	
9	80363123	1	CIGARETTE LIGHTER	
10	77383891	1	ASHTRAY	
11	80363039	1	CONSOLE DOOR	
12	80363162	1	PRINTED CIRCUIT BOARD, (see Figure 10-2 for details)	
13	80383248	1	FLASHER	
14	80963025	1	BALL LOUVER	
15	88301090	6	ROUND HD MACHINE SCREW, #10-24X1/2	
16	80363185	6	NYLON WASHER	
17	88501612	6	HEX NUT, #10-24	
18	80363034	4	TINNERMAN NUT	
19	80363167	1	FUSE IDENTIFICATION DECAL	
20	80361020	1	LATCH RECEIVER	
21	88321030	2	SELF-TAPPING SCREW, #10-24X1/2	



Figure 6-5 Cab Console



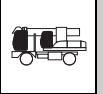


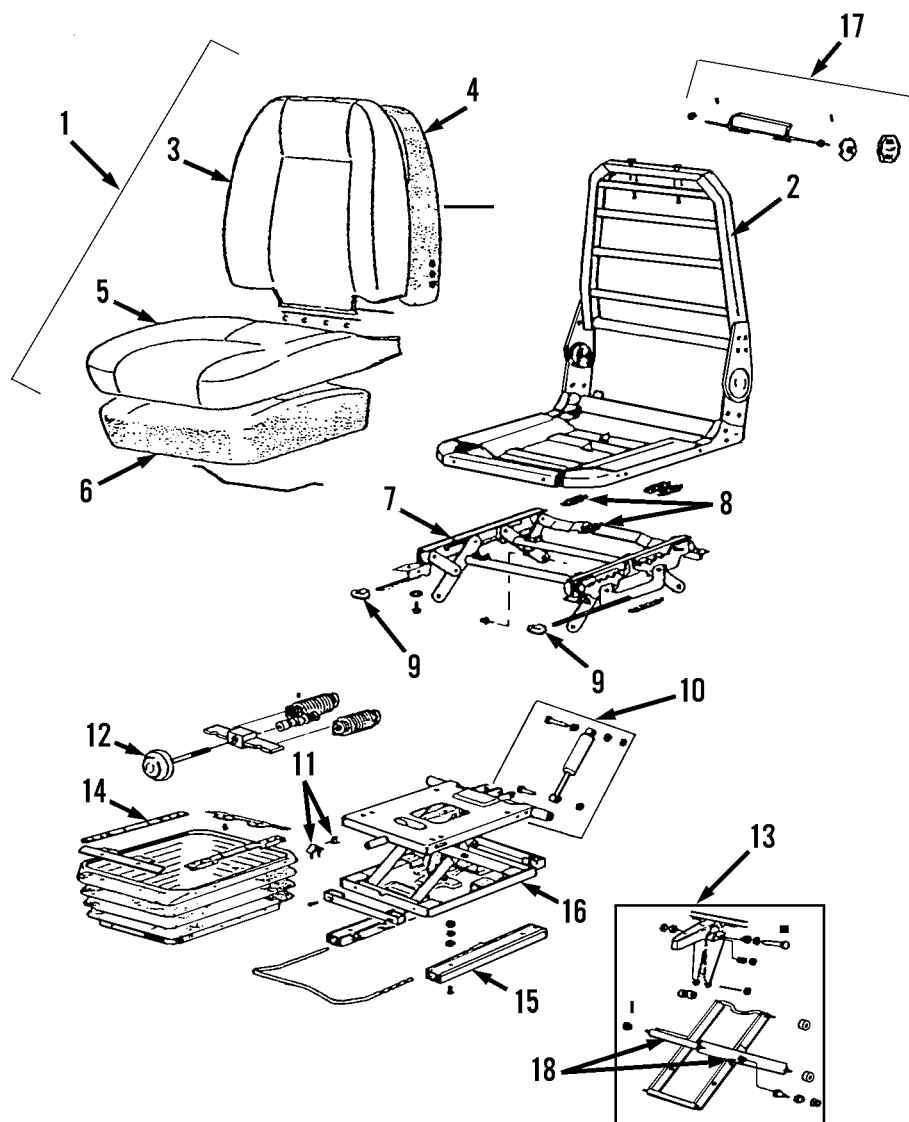
Figure 6-5 Cab Console

Item	Part Number	Qty.	Description	Rev.
	80365064	1	CAB CONSOLE ASSY, (includes all items)	
1	80363240	1	CONSOLE	
2	80363023	1	ELECTRONIC MONITORING UNIT	
3	80363033	4	FLAT HD MACHINE SCREW, #10-24X1	
4	80363034	4	TINNERMAN NUT	
5	80363244	1	POWER SUPPLY, 12V	
6	80363039	1	CONSOLE DOOR	
7	80363066	1	LATCH	
8	80363116	1	DUAL ALTERNATING ELECTRIC FLASHER	
9	88301070	2	ROUND HD MACHINE SCREW, #8-32X1/2	
10	88501610	2	HEX NUT, #8-32	
11	80363167	1	FUSE IDENTIFICATION DECAL	
12	80363241	1	PRINTED CIRCUIT BOARD, (see Figure 10-2 for details)	
13	88301095	6	ROUND HD MACHINE SCREW, #10-24X1	
14	88501612	6	HEX NUT, #10-24	
15	80363185	6	NYLON WASHER	
16	80363242	6	NYLON STANDOFF, #10	
17	80361020	1	LATCH RECEIVER	
18	88321030	2	SELF-TAPPING SCREW, #10-24x1/2	
19	80363229	1	LOUVER ASSY	
20	91143130	1	HOURMETER	
21		AR	FLEXIBLE DUCT TAPE	
22	90027187	1	TY-RAP	
23	80363242	6	NYLON STANDOFF, #10	



CAB

Figure 6-6 Cab Seat



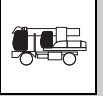


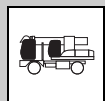
Figure 6-6 Cab Seat

Item	Part Number	Qty.	Description	Rev.
	80363044	1	CAB SEAT, (includes all items)	
1	80364113	1	UPPER SEAT KIT	
2	80364114	1	FRAME ASSY KIT	
3	80264003	1	BACK COVER KIT	
4	80264002	1	BACK FOAM KIT	
5	80264005	1	SEAT COVER ASSY KIT	
6	80264004	1	SEAT FOAM KIT	
7	80364115	1	HEIGHT RISER KIT	
8	80264009	1	HEIGHT RISER SPRING KIT	
9	80364116	1	HANDLE KIT	
10	80264019	1	DAMPER KIT	
11	80264020	1	UP-STOP/BUMP STOP KIT	
12	80264018	1	WEIGHT ADJUSTER KIT	
13	80264024	1	BEARING KIT	
14	80364117	1	SUSPENSION KIT	
15	80363005	1	FORE AND AFT ADJUSTMENT KIT	
16	80364118	1	SUSPENSION ASSY KIT	
17	80364119	1	LUMBAR SUPPORT KIT	
18	80364120	1	PIVOT KIT	
19	80364197	2	ARMREST, (not illustrated)	
	80364175	1	ARMREST KIT	



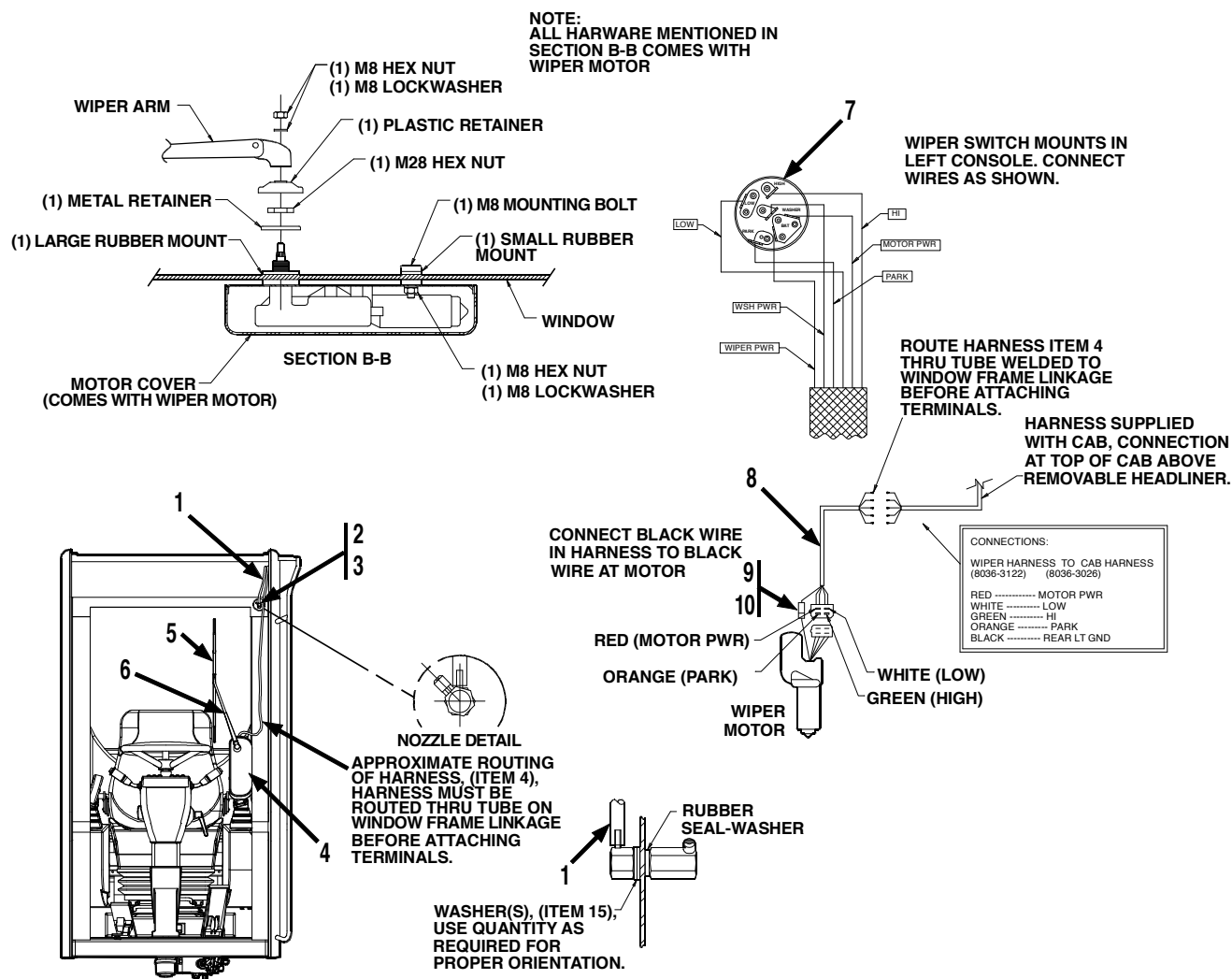
Figure 6-7 Cab Heater & Installation

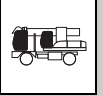
Item	Part Number	Qty.	Description	Rev.
	80363011	1	CAB HEATER, (includes items 1 thru 17)	
1	80364132	1	CASE ASSY	
2	80364124	1	ELECTRONIC HARNESS ASSY	
3	80364133	1	CORE ASSY	
4	80363109	AR	CORK TAPE	
5	80964013	1	SNAP BUSHING	
6	80364126	1	DRAIN PAN	
7	80364127	1	DRAIN CAP	
8	80964016	1	FILTER	
9	80364123	1	BLOWER ASSY	
10	80964060	2	WING STUD	
11	80964057	2	STUD RETAINER	
12	80964059	2	STUD EJECTOR SPRING	
13	80964020	2	STUD RECEPTACLE	
14	80964019	1	GASKET	
15	80964017	1	ALUMINUM FRAME FILTER	
16	80364134	1	COVER ASSY	
17	80964061	8	HEX HD CAPSCREW	
18	86971187	8	HOSE CLAMP	
19	80383231	1	HEATER CONTROL VALVE	
20	80263012	4	WHIZ-LOK SCREW, 1/4-20X1/2	
21		AR	HEATER HOSE, RED	
22		AR	HEATER HOSE, BLACK	
23	84712749	1	BRASS ELBOW	
24	80373047	1	REDUCING BUSHING	
25	91083155	1	TRUCK VALVE	
26	77383540	1	RESTRICTOR FITTING	
27	80373046	1	REDUCING BUSHING	
28		Ref	POWER UNIT ASSY, (see Figure 4-1 for details)	
29	77323029	1	CLAMP SET	
30	77133137	1	COVER PLATE	
31	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	



CAB

Figure 6-8 Cab Wiper/Washer Installation

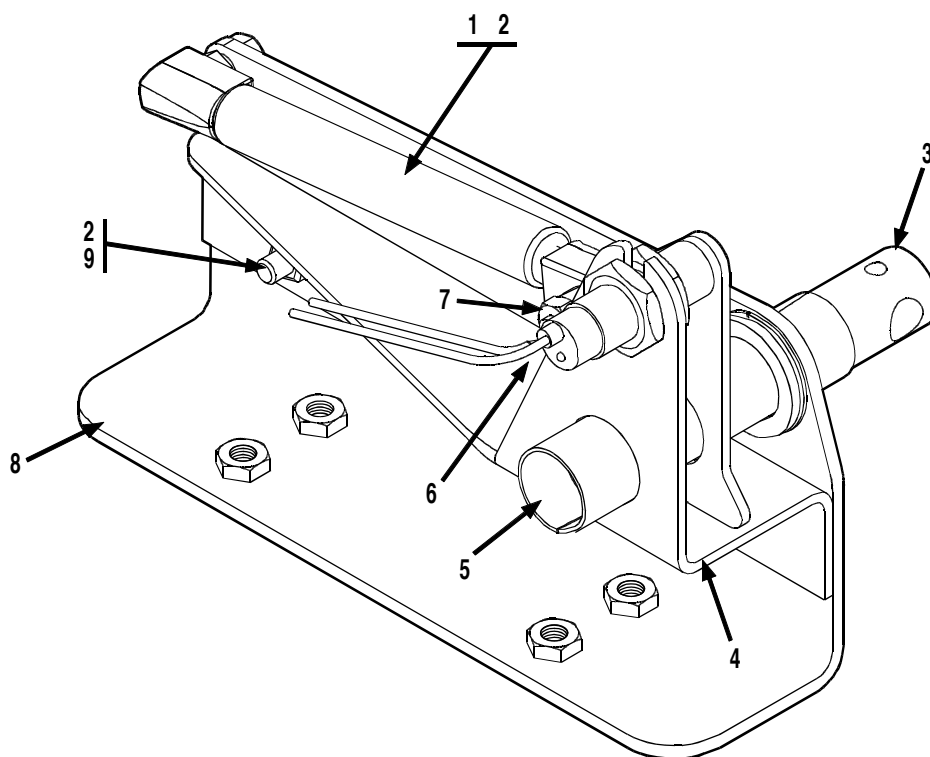


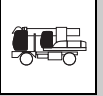
**Figure 6-8 Cab Wiper/Washer Installation**

Item	Part Number	Qty.	Description	Rev.
1		AR	WASHER HOSE	
2	80263020	1	WASHER NOZZLE KIT	
3	88561108	2	FLAT WASHER, 1/4	
4	80263081	1	WIPER MOTOR	
5	90028960	5	INSULATED MALE SPADE	
6	80263080	1	WIPER ARM	
7	83953038	1	WINDSHIELD WIPER SWITCH	
8	80363122	1	WIPER HARNESS	
9	77163105	1	INSULATED FEMALE BULLET	
10	86983193	1	INSULATED MALE BULLET	

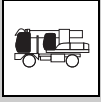


Figure 6-9 Pilot Cut-off Assembly



**Figure 6-9 Pilot Cut-off Assembly**

Item	Part Number	Qty.	Description	Rev.
	80365023	1	PILOT CUT-OFF ASSY, (includes all items)	
1	80363037	1	GAS SPRING	
2	77143006	5	WHIZ-LOK NUT, 5/16-18	
3	80363210	1	PIVOT LEVER	
4	80361093	1	INSIDE MOUNT BRACKET	
5	80363043	2	BUSHING	
6	80363166	1	SENSOR	
7	80363082	2	BALL STUD	
8	80361026	1	OUTSIDE MOUNT BRACKET	
9	91363018	3	WHIZ-LOK BOLT, 5/16-18X1	

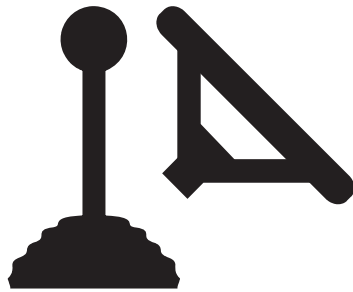


CAB

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SECTION 7

CONTROLS



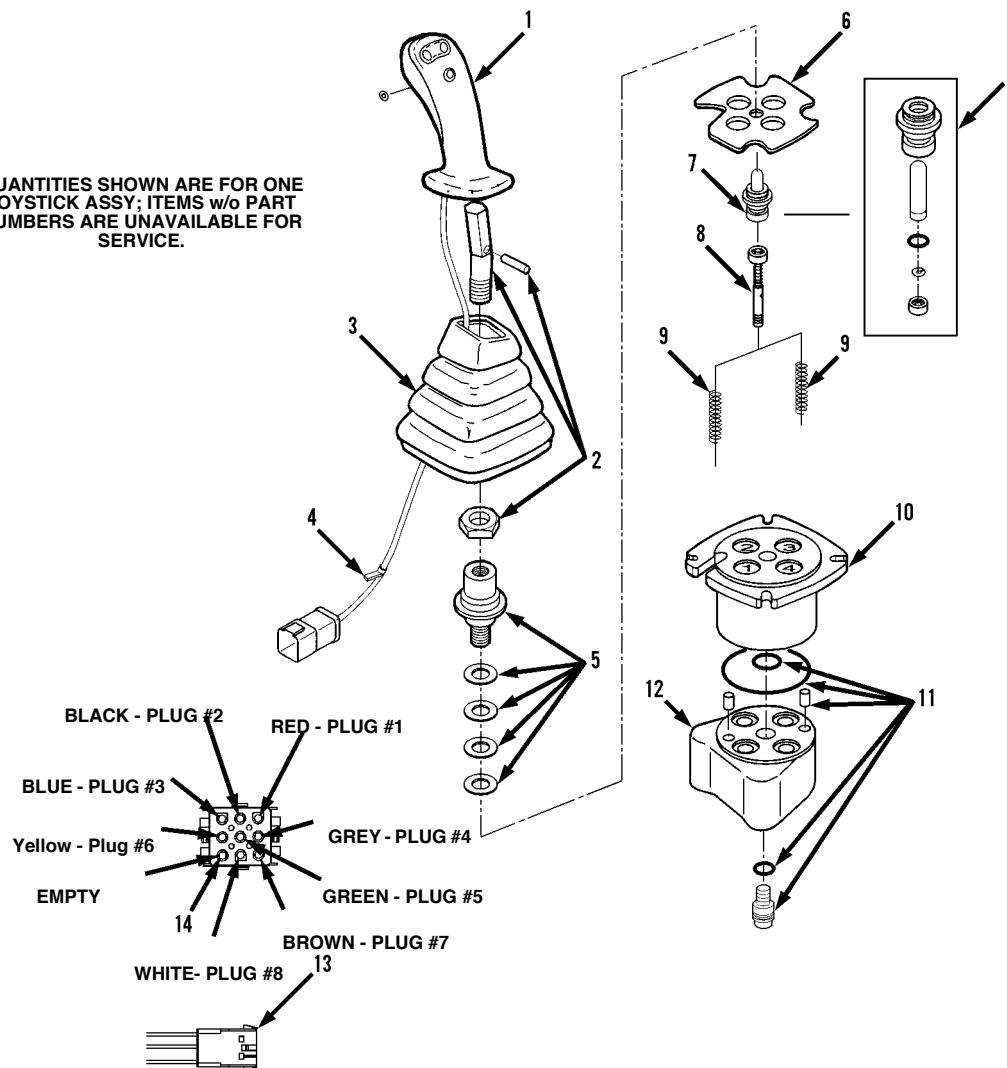


CONTROLS

Before S/N 0330652

Figure 7-1 Joystick

QUANTITIES SHOWN ARE FOR ONE JOYSTICK ASSY; ITEMS w/o PART NUMBERS ARE UNAVAILABLE FOR SERVICE.



THE BOSCH REXROTH CORPORATION JOYSTICK HANDLE SWITCH IS NOT A FIELD SERVICEABLE COMPONENT. ANY ATTEMPT BY NON-FACTORY PERSONNEL TO REPAIR OR REPLACE THE SWITCH WILL VOID THE WARRANTY & CAN RESULT IN A JOYSTICK MALFUNCTION.



Figure 7-1 Joystick

Item	Part Number	Qty.	Description	Rev.
	80363003	1	R.H. JOYSTICK, (includes all items)	
	80363002	1	L.H. JOYSTICK, (includes all items)	
1	80264127	1	HANDLE GRIP KIT, (L.H & R.H.)	
2	91404011	1	BENT LEVER KIT	
3	80364095	1	RUBBER BOOT	
4	80264139	1	GROMMET KIT, (w/ty-rap)	
5	80264138	1	CARDAN KIT	
6	91404013	1	RETAINING PLATE	
7	80934659	2	PLUNGER KIT	
8	80364176	4	REGULATING KIT	
9	91504029	1	RETURN SPRING, (standard), (pack of two)	
	91504028	1	RETURN SPRING, (heavy), (pack of two)	
10	91404016	1	UPPER BODY	
11	91404326	1	SEAL KIT	
12		1	LOWER BODY	
13	80263026	1	AMP PIN HOUSING	
14	80263032	8	MALE PIN TERMINAL	



Figure 7-1 Joystick

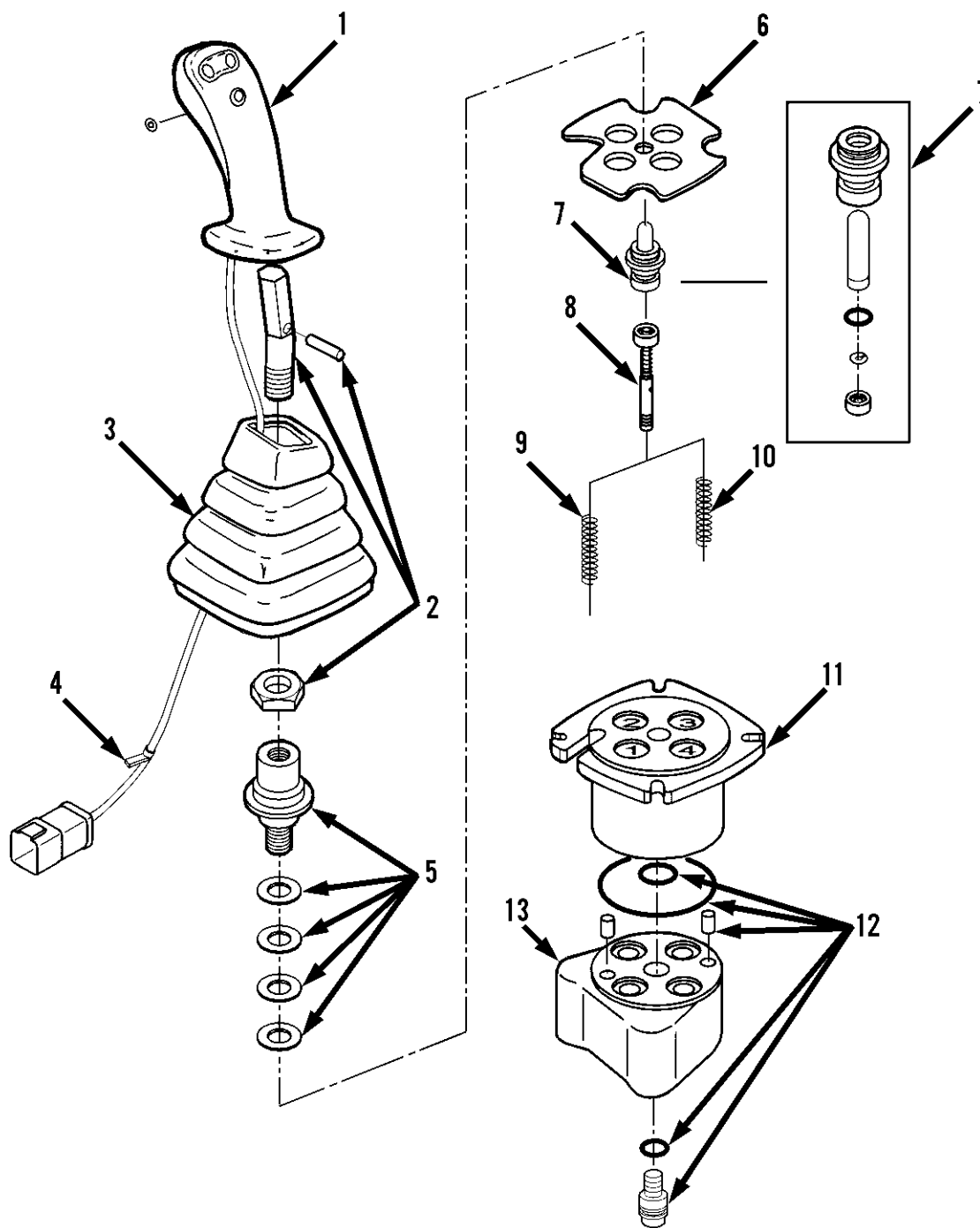




Figure 7-1 Joystick

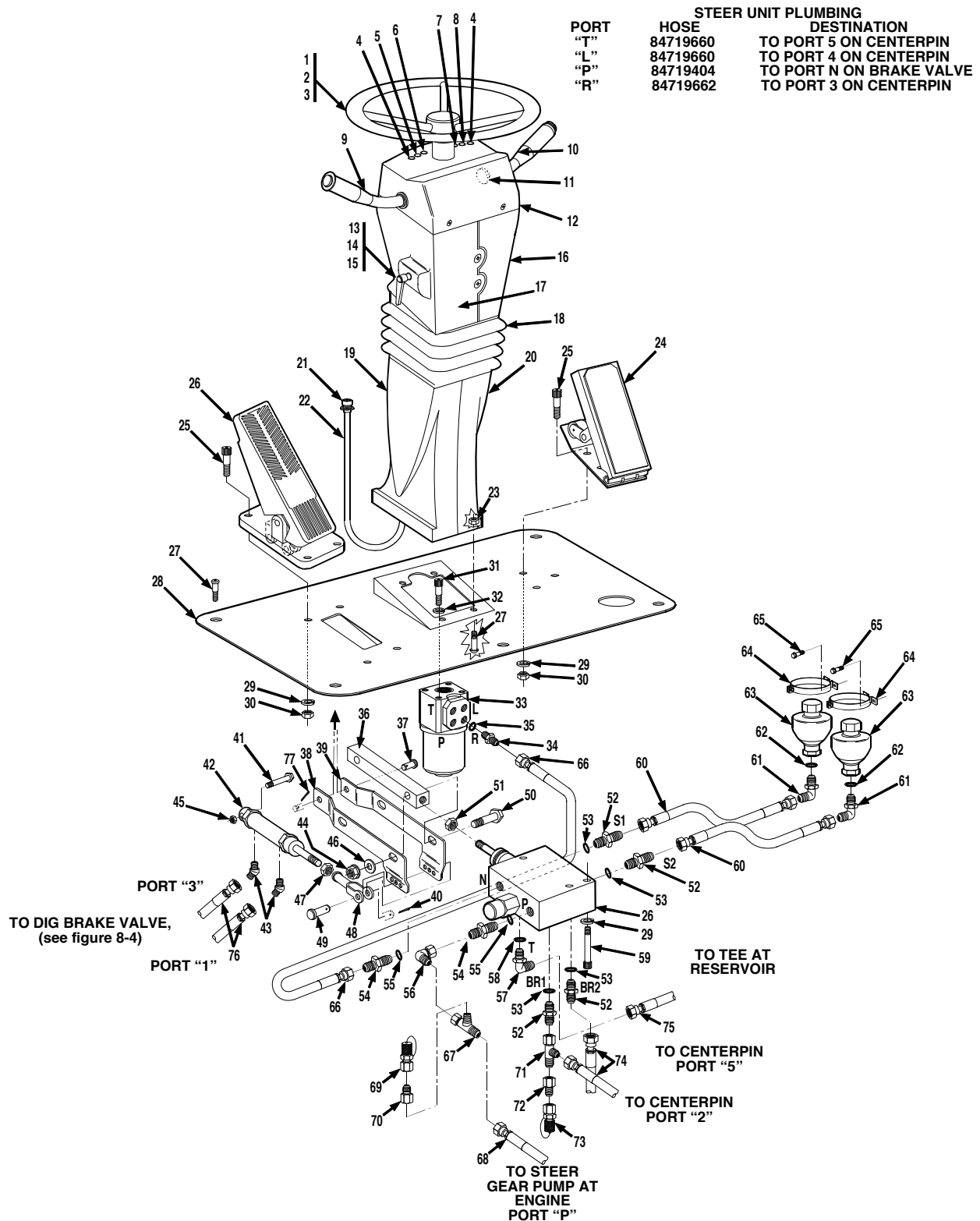
Item	Part Number	Qty.	Description	Rev.
	80433208	1	R.H. JOYSTICK, (includes all items)	
	80433207	1	L.H. JOYSTICK, (includes all items)	
1	80264127	1	HANDLE GRIP KIT	
2	91404011	1	BENT LEVER KIT	
3	80364095	1	RUBBER BOOT	
4	80264139	1	GROMMET w/TY-RAP KIT	
5	80264138	1	CARDAN BENT LEVER KIT	
6	91404013	1	RETAINING PLATE	
7	91304025	1	PLUNGER & GUIDE CURVE KIT, (pack of two)	
8	80364176	1	REGULATING UNIT CURVE KIT, (pack of two)	
9	91504028	1	RETURN SPRING, (heavy), (ports 1 & 3)	
10	91504029	1	RETURN SPRING, (standard), (ports 2 & 4)	
11	91404016	1	UPPER BODY	
12	91404326	1	SEAL KIT	
13		1	LOWER BODY	



CONTROLS

Before S/N 0330653

Figure 7-2 Steering Column, Foot Pedals & Installation



PAD8580



Figure 7-2 Steering Column, Foot Pedals & Installation

Item	Part Number	Qty.	Description	Rev.
1	80363074	1	STEERING COLUMN ASSY, (includes items 1 thru 22)	
2	80364150	1	STEERING WHEEL	
	80364151	1	PLUG	
3	80364171	1	STEER COLUMN SHAFT	
4	80364152	2	TURN SIGNAL INDICATOR	
5	80364153	1	RABBIT INDICATOR	
6	80364154	1	TURTLE INDICATOR	
7	80364155	1	BRAKE PRESSURE WARNING INDICATOR	
8	80364156	1	HI-BEAM HEADLIGHT INDICATOR	
9	80364157	1	L. H. CONTROL SWITCH ASSY	
10	80364158	1	R. H. CONTROL SWITCH ASSY	
11	80364159	1	HAZARD LIGHT SWITCH	
12	80364160	1	UPPER COLUMN BODY	
13	80364161	1	HANDLE	
14	80364162	1	SPACER	
15	80364163	1	HEX NUT	
16	80364164	1	R.H. CENTER BODY	
17	80364165	1	L.H. CENTER BODY	
18	80364166	1	BELLOWS	
19	80364167	1	L.H. LOWER BODY	
20	80364168	1	R.H. LOWER BODY	
21	80364169	1	CANNON PLUG CONNECTOR	
22	80364170	1	COLUMN HARNESS	
23	88521306	4	HEX LOCKNUT, 3/8-16	
24	77383999	1	FOOT SWITCH	
25	88212228	7	SOCKET HD CAPSCREW, 5/16-18X1-1/4, GR8	
26		Ref	BRAKE PEDAL & VALVE ASSY, (see Figure 9-30 for details)	
27	88261027	10	BUTTON HD CAPSCREW, 3/8-16X3/4	
28	80366011	1	FLOORPLATE WELDMENT	
29	88551151	10	LOCKWASHER, 5/16	
30	88501005	7	HEX NUT, 5/16-18	
31	83191064	4	SOCKET HD CAPSCREW, M10-1.50X20	
32	83191013	4	LOCKWASHER, M10	
33		Ref	STEERING CONTROL UNIT, (see Figure 7-3 for details)	
34	88662310	4	CONNECTOR, (includes item 35)	
35	88591205	4	O-RING	
36	80361067	1	BAR	
37	88633003	1	CLEVIS PIN, 3/8	
38	80361073	1	BENT PLATE	
39	80361072	1	BENT PLATE	
40	88631303	1	COTTER PIN, 1/16X1	
41	88201009	1	HEX HD CAPSCREW, 1/4-20X2, GR5	
42	80363071	1	HYDRAULIC SLAVE CYLINDER	
43	88743021	2	MALE ELBOW, 45 DEGREES, 1/8X1/4 TUBE	
44	77143006	2	WHIZ-LOK NUT, 5/16-18	
45	88521304	1	HEX LOCKNUT, 1/4-20	
46	88561003	2	FLAT WASHER, 5/16-18	
47	88501404	1	HEX JAM NUT, 1/4-28	
48	88821002	1	YOKE END, 1/4-28	



CONTROLS

Before S/N 0330653

Figure 7-2 Steering Column, Foot Pedals & Installation (Continued)

Item	Part Number	Qty.	Description	Rev.
49	88633001	1	CLEVIS PIN, 1/4	
50	88201022	2	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
51	83191015	1	HEX NUT, M10	
52	80333207	4	ADAPTER, (includes item 53)	
53		4	O-RING	
54	80333232	2	ADAPTER, (includes item 55)	
55		2	O-RING	
56	88662372	1	ELBOW, 90 DEGREES, (swivel nut)	
57	80333208	1	ELBOW, 90 DEGREES, (includes item 58)	
58		1	O-RING	
59	88212235	3	SOCKET HD CAPSCREW, 5/16-18X3	
60	84719027	2	HOSE ASSY	
61	88662432	2	ELBOW, 90 DEGREES, (includes item 62)	
62	88591205	2	O-RING	
63	80473039	2	ACCUMULATOR	
64	80473040	2	ACCUMULATOR CLAMP	
65	77143003	4	WHIZ-LOK SCREW, 5/16-18X5/8	
66	84719404	1	HOSE ASSY	
67	88662438	1	SWIVEL NUT RUN TEE	
68	84719152	1	HOSE ASSY	
69	80233203	1	MINI-CHECK COUPLING	
70	88662493	1	SWIVEL ADAPTER	
71	88662446	1	SWIVEL NUT RUN TEE	
72	88662488	1	SWIVEL ADAPTER	
73	91143172	1	MINI-CHECK COUPLING	
74	84719663	2	HOSE ASSY	
75	84719666	1	HOSE ASSY	
76	84719692	2	HOSE ASSY	
77	88631309	1	COTTER PIN, 3/32X3/4	



Figure 7-2 Steering Column, Foot Pedals & Installation (Continued)

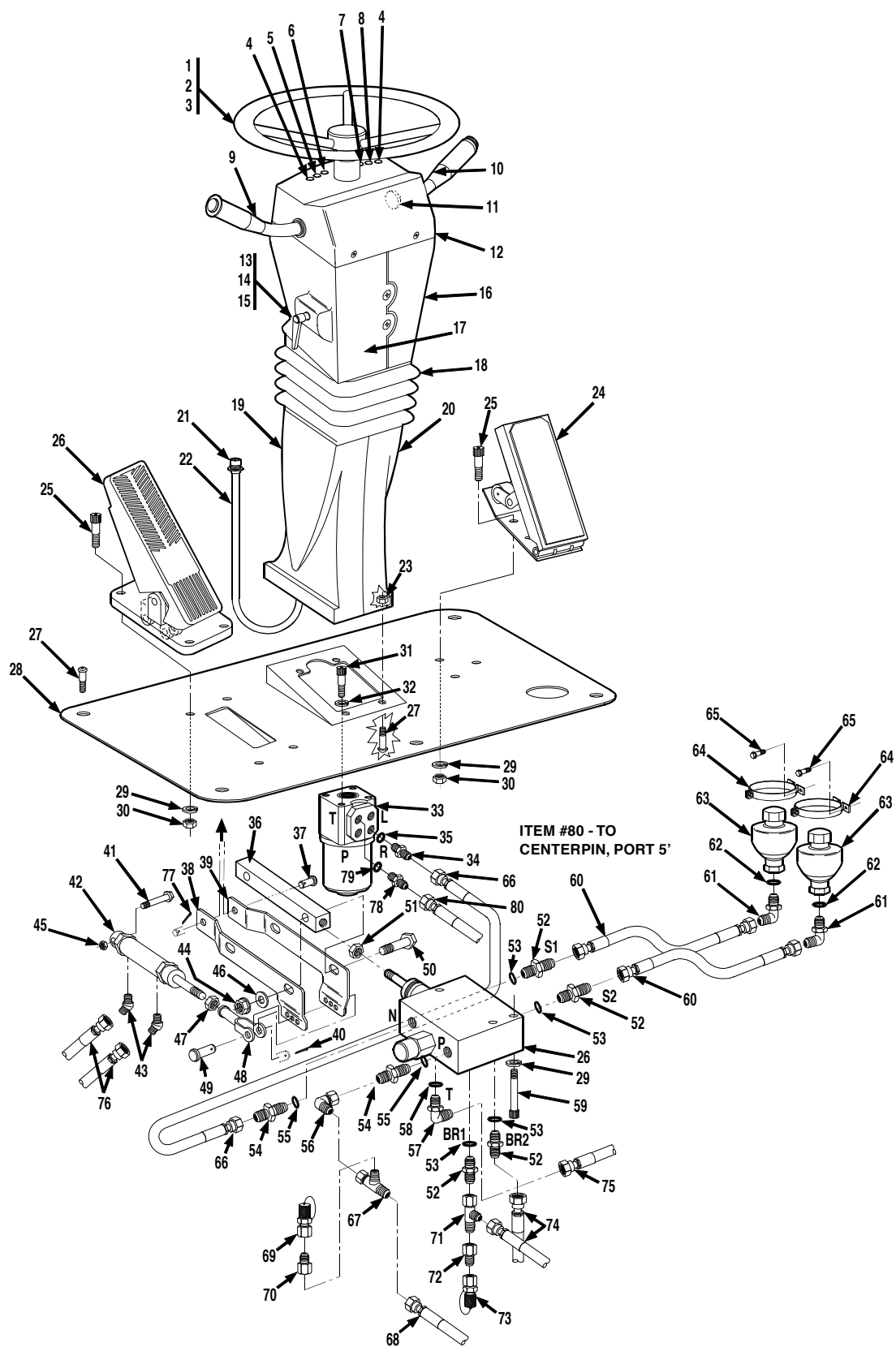
Item	Part Number	Qty.	Description	Rev.



CONTROLS

S/N 0330653 thru 0330665,
0210017446 thru 0210018092 &
3300000666 & After

Figure 7-2 Steering Column, Foot Pedals & Installation



PAD8590



Figure 7-2 Steering Column, Foot Pedals & Installation

Item	Part Number	Qty.	Description	Rev.
1	80463041	1	STEERING COLUMN ASSY, (includes items 1 thru 22)	
2	80464030	1	STEERING WHEEL	
	80464031	1	PLUG	
3		1	STEER COLUMN SHAFT	
4	80364152	2	TURN SIGNAL INDICATOR	
5	80364153	1	RABBIT INDICATOR	
6	80364154	1	TURTLE INDICATOR	
7	80364155	1	BRAKE PRESSURE WARNING INDICATOR	
8	80364156	1	HI-BEAM HEADLIGHT INDICATOR	
9	80464020	1	L. H. CONTROL SWITCH ASSY	
10	80464021	1	R. H. CONTROL SWITCH ASSY	
11	80464019	1	HAZARD LIGHT SWITCH	
12	80464023	1	UPPER COLUMN BODY	
13	80464022	1	HANDLE	
14		1	SPACER	
15		1	HEX NUT	
16	80464025	1	R.H. CENTER BODY	
17	80464024	1	L.H. CENTER BODY	
18	80464028	1	BELLOWS	
19	80464026	1	L.H. LOWER BODY	
20	80464027	1	R.H. LOWER BODY	
21	80364169	1	CANNON PLUG CONNECTOR	
22	80364170	1	COLUMN HARNESS	
23	88521306	4	HEX LOCKNUT, 3/8-16	
24	77383999	1	FOOT SWITCH	
25	88212228	7	SOCKET HD CAPSCREW, 5/16-18X1-1/4, GR8	
26		Ref	BRAKE PEDAL & VALVE ASSY, (see Figure 9-30 for details)	
27	88261027	10	BUTTON HD CAPSCREW, 3/8-16X3/4	
28	80366011	1	FLOORPLATE WELDMENT	
29	88551151	10	LOCKWASHER, 5/16	
30	88501005	7	HEX NUT, 5/16-18	
31	83191064	4	SOCKET HD CAPSCREW, M10-1.50X20	
32	83191013	4	LOCKWASHER, M10	
33		Ref	STEERING CONTROL UNIT, (see Figure 7-3 for details)	
34	88662310	3	CONNECTOR, (includes item 35)	
35	88591205	3	O-RING	
36	80361067	1	BAR	
37	88633003	1	CLEVIS PIN, 3/8	
38	80361073	1	BENT PLATE	
39	80361072	1	BENT PLATE	
40	88631303	1	COTTER PIN, 1/16X1	
41	88201009	1	HEX HD CAPSCREW, 1/4-20X2, GR5	
42	80363071	1	HYDRAULIC SLAVE CYLINDER	
43	88743021	2	MALE ELBOW, 45 DEGREES, 1/8X1/4 TUBE	
44	77143006	2	WHIZ-LOK NUT, 5/16-18	
45	88521304	1	HEX LOCKNUT, 1/4-20	
46	88561003	2	FLAT WASHER, 5/16-18	
47	88501404	1	HEX JAM NUT, 1/4-28	
48	88821002	1	YOKE END, 1/4-28	

**Figure 7-2 Steering Column, Foot Pedals & Installation**

Item	Part Number	Qty.	Description	Rev.
49	88633001	1	CLEVIS PIN, 1/4	
50	88201022	2	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
51	83191015	1	HEX NUT, M10	
52	80333207	4	ADAPTER, (includes item 53)	
53		4	O-RING	
54	80333232	2	ADAPTER, (includes item 55)	
55		2	O-RING	
56	88662372	1	ELBOW, 90 DEGREES, (swivel nut)	
57	80333208	1	ELBOW, 90 DEGREES, (includes item 58)	
58		1	O-RING	
59	88212235	3	SOCKET HD CAPSCREW, 5/16-18X3	
60	84719027	2	HOSE ASSY	
61	88662432	2	ELBOW, 90 DEGREES, (includes item 62)	
62	88591205	2	O-RING	
63	80473039	2	ACCUMULATOR	
64	80473040	2	ACCUMULATOR CLAMP	
65	77143003	4	WHIZ-LOK SCREW, 5/16-18X5/8	
66	84719660	1	HOSE ASSY	
67	88662438	1	SWIVEL NUT RUN TEE	
68	84719152	1	HOSE ASSY	
69	80233203	1	MINI-CHECK COUPLING	
70	88662493	1	SWIVEL ADAPTER	
71	88662446	1	SWIVEL NUT RUN TEE	
72	88662488	1	SWIVEL ADAPTER	
73	91143172	1	MINI-CHECK COUPLING	
74	84719663	2	HOSE ASSY	
75	84719666	1	HOSE ASSY	
76	84719692	2	HOSE ASSY	
77	88631309	1	COTTER PIN, 3/32X3/4	
78	88662302	1	CONNECTOR, (includes item 79)	
79	88591205	1	O-RING	
80	84711162	1	HOSE ASSY	

S/N 0330653 thru 0330665,
0210017446 thru 0210018092 &
3300000666 & After



Figure 7-2 Steering Column, Foot Pedals & Installation

Item	Part Number	Qty.	Description	Rev.



CONTROLS

Figure 7-3 Steering Control

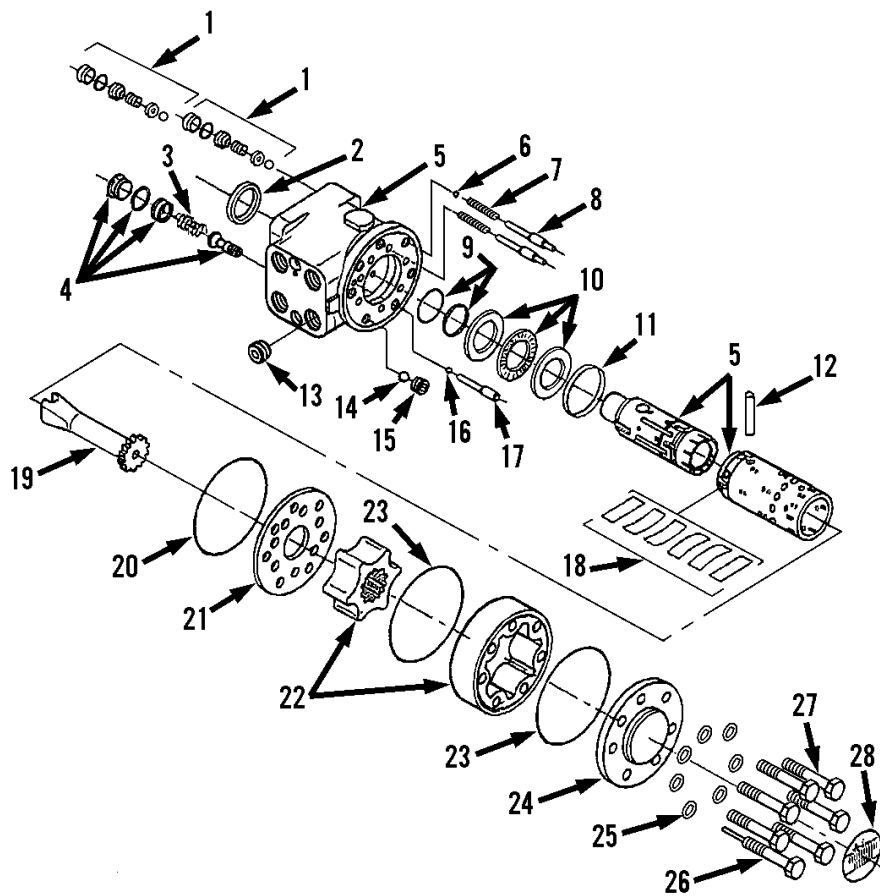




Figure 7-3 Steering Control

Item	Part Number	Qty.	Description	Rev.
	80333107	1	STEERING CONTROL, (includes all items)	
1	80334551	2	SHOCK VALVE	
2	80334552	1	DUST SEAL RING	
3	80334553	1	SPRING	
4	80334554	1	RELIEF VALVE	
5		1	HOUSING, SPOOL & SLEEVE SET	
6	80334555	2	BALL	
7	80334556	2	SPRING	
8	80334557	2	PIN	
9	80334558	1	SHAFT SEAL	
10	80334559	1	BEARING SET	
11	80334560	1	RING	
12	80334561	1	CROSS PIN	
13	80334562	1	CHECK VALVE	
14	80334563	1	BALL	
15	80334564	1	THREAD BUSHING	
16	80334565	1	BALL	
17	80334566	1	CHECK VALVE	
18	80334567	1	SPRING	
	80334568	1	SPRING	
	80334569	1	SPRING	
	80334570	1	SPRING	
	80334571	1	SPRING	
	80334572	1	SPRING	
	80334573	1	SPRING	
	80334574	1	SPRING	
	80334575	1	SPRING	
	80334576	1	SPRING	
	80334577	1	SPRING	
19	80334578	1	CARDAN SHAFT	
20	80334579	1	O-RING	
21	80334580	1	DISTRIBUTOR PLATE	
22	80334581	1	GEARWHEEL SET	
23	80334582	2	O-RING	
24	80334583	1	END COVER	
25	80334584	7	WASHER	
26	80334585	1	SPECIAL SCREW	
27	80334586	6	SCREW	
28	80334587	1	NAME PLATE	
	80334588	1	SEAL KIT, (includes items 2, 9, 20, 23 & 25)	

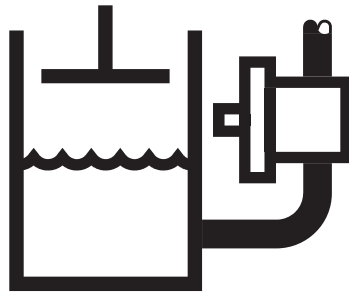


CONTROLS

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SECTION 8

HYDRAULIC CIRCUITS



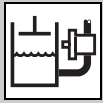
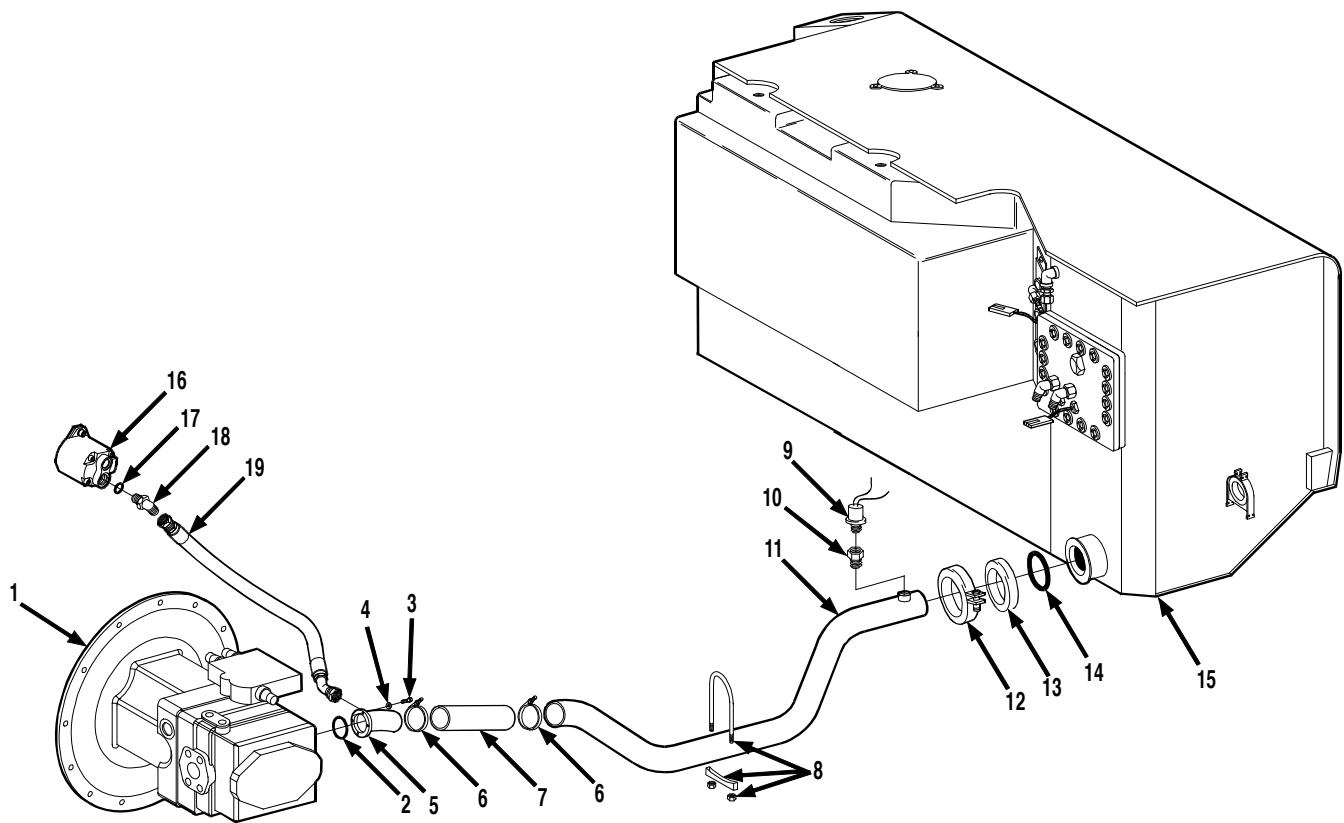


Figure 8-1 Oil Supply to Pumps



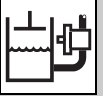
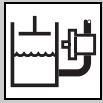


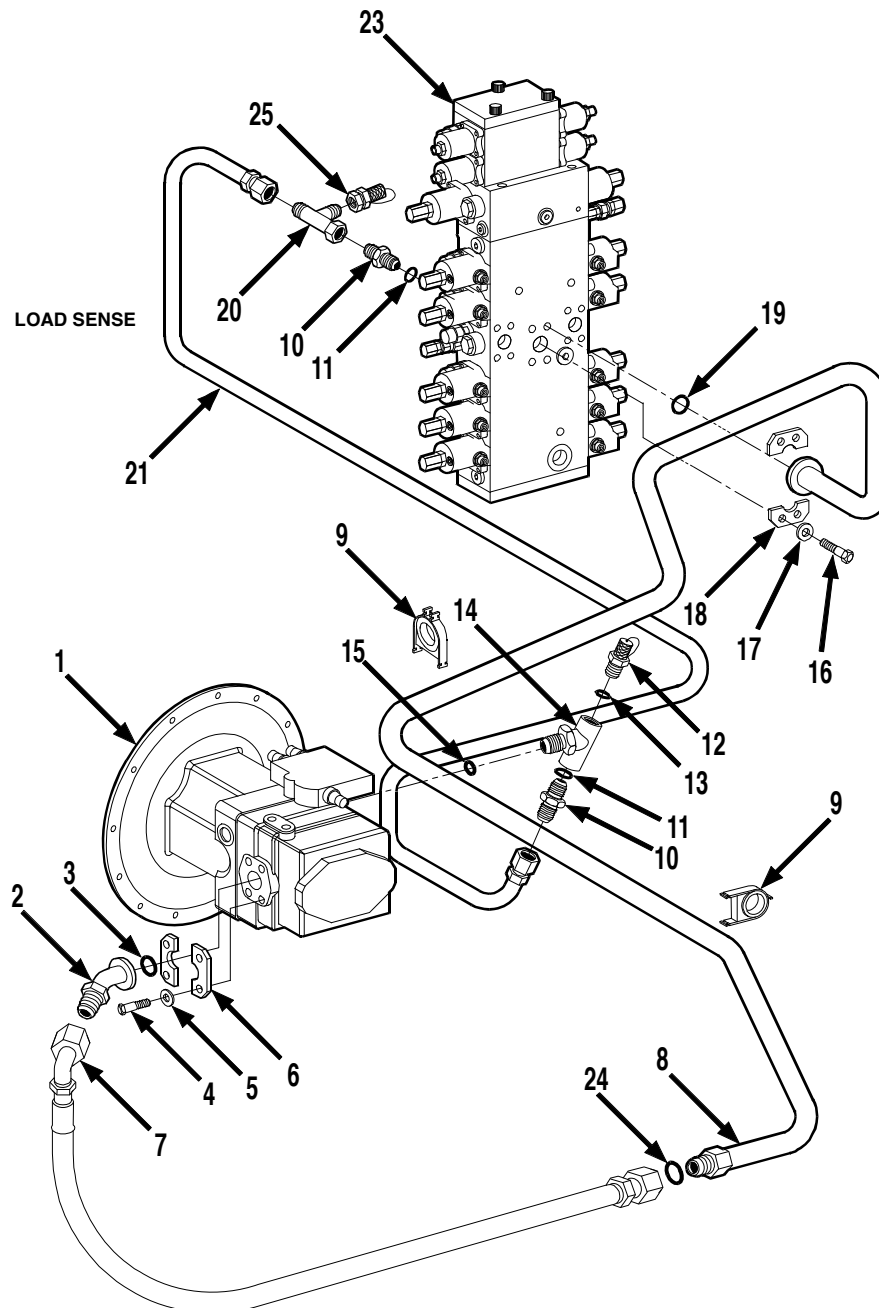
Figure 8-1 Oil Supply to Pumps

Item	Part Number	Qty.	Description	Rev.
1		1	MAIN PUMP, (see Figure 9-8 for details)	
2	88591115	1	O-RING	
3	88201096	4	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5	
4	88551015	4	LOCKWASHER, 5/8	
5	80333138	1	SUCTION FITTING	
6	91163129	2	HEAVY DUTY BAND CLAMP	
7	80333022	1	SUCTION HOSE	
8	24921332	1	MUFFLER CLAMP	
9	80233077	1	SUCTION SWITCH, (150 PSI)	
10	77363111	1	ADAPTER	
11	80333023	1	SUCTION TUBE	
12	86961091	1	GASKET RETAINER	
13	86961092	1	COUPLING	
14	86961093	1	GASKET	
15		REF	HYDRAULIC RESERVOIR ASSY, (see Figure 9-18 for details)	
16		REF	GEAR PUMP ASSY, (see Figure 9-29 for details)	
17	88501207	1	O-RING	
18	88662321	1	ELBOW, 45 DEGREES, (includes item 17)	
19	84719549	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-2 Hydraulic Pressure to Control Valves



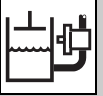
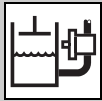


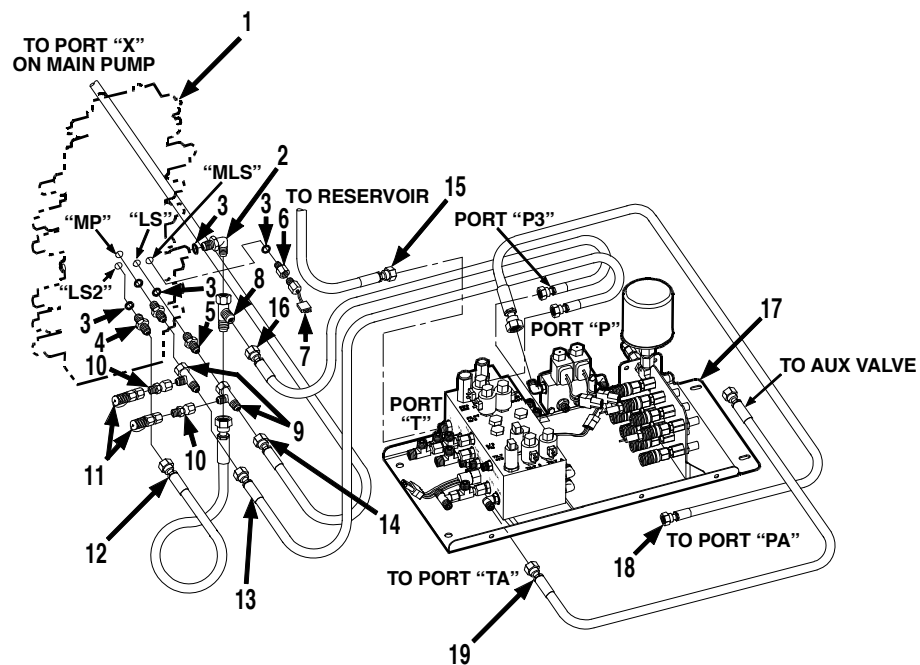
Figure 8-2 Hydraulic Pressure to Control Valves

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN PUMP, (see Figure 9-8 for details)	
2	80333047	1	ELBOW, 45 DEGREES	
3	91083339	1	O-RING	
4	88201068	4	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5, (lubricate & torque to 68-78 lb-ft)	
5	88551013	4	LOCKWASHER, 1/2	
6	84712739	2	FLANGE HALF	
7	84719323	1	HOSE ASSY	
8	80333063	1	TUBE ASSY	
9	90205792	2	CUSHION CLAMP, 1-1/4	
10	88662301	2	CONNECTOR, (includes item 11)	
11	88591204	2	O-RING	
12	77133089	1	MINI-CHECK COUPLING, (includes item 13)	
13	83763056	1	VITON O-RING, (lubricate lightly)	
14	80273034	1	RUN TEE, (includes item 15)	
15		1	O-RING	
16	88201053	4	HEX HD CAPSCREW, 7/16-14X1-3/4, GR5	
17	88551012	4	LOCKWASHER, 7/16	
18	84712738	2	FLANGE HALF	
19	91083106	1	O-RING	
20	88662446	1	SWIVEL NUT RUN TEE	
21	84718707	1	HOSE ASSY	
22	88591510	1	O-RING	
23		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
24	88591509	1	O-RING	
25	91143172	1	MINI-CHECK COUPLING	



HYDRAULIC CIRCUITS

Figure 8-3 Main Valve to Pilot Manifold Hydraulic Hosing



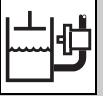
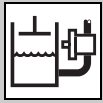


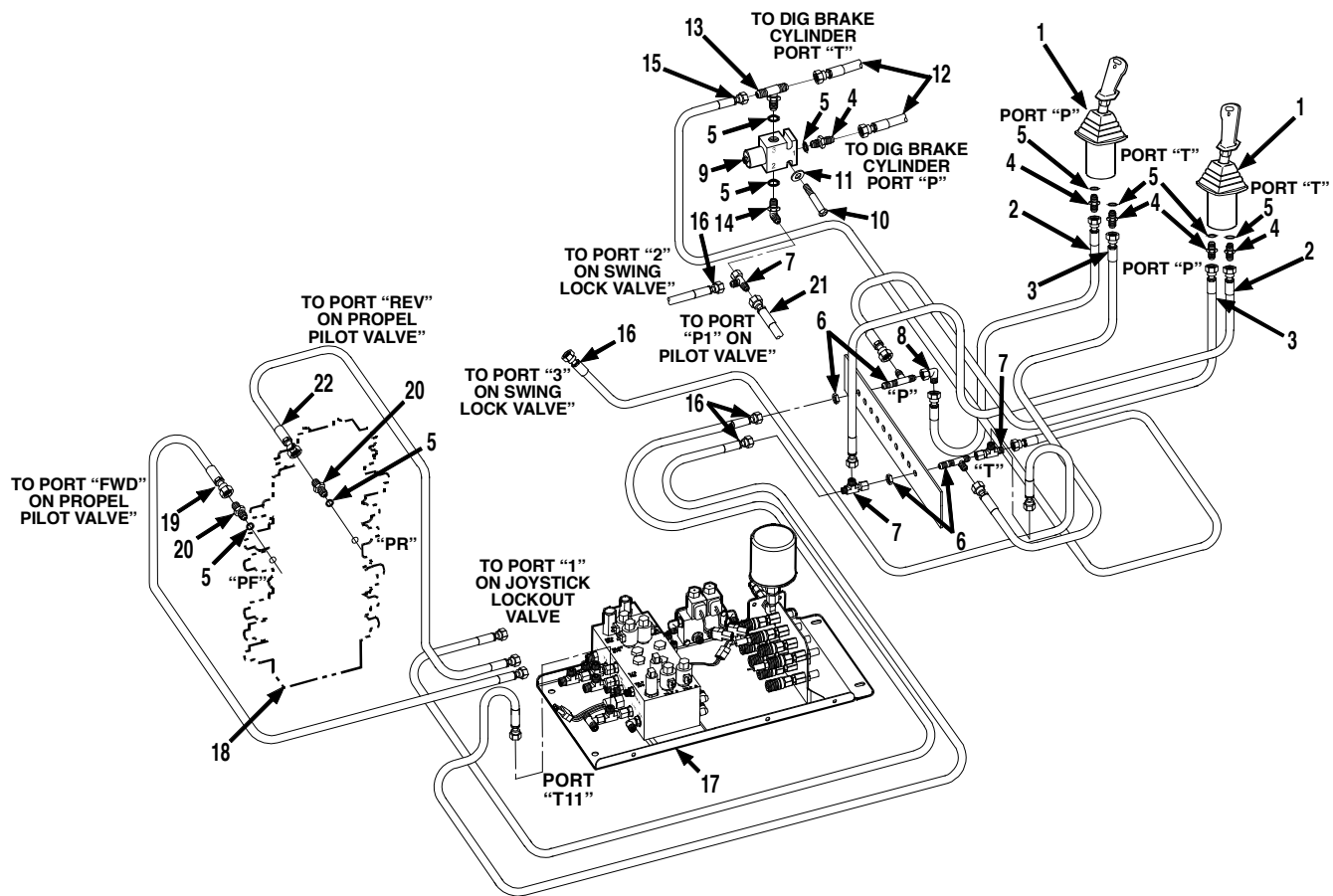
Figure 8-3 Main Valve to Pilot Manifold Hydraulic Hosing

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	88662489	1	ELBOW, 90 DEGREES, (includes item 3)	
3	88591204	4	O-RING	
4	80333184	1	CHECK VALVE	
5	88662301	2	CONNECTOR, (includes item 3)	
6	80333052	1	REDUCING BUSHING, (includes item 3)	
7	80333101	1	PRESSURE SWITCH	
8	80233259	1	SWIVEL NUT RUN TEE	
9	88662446	2	SWIVEL NUT RUN TEE	
10	88662488	2	MALE SWIVEL ADAPTER	
11	91143172	2	MINI-CHECK COUPLING	
12	84719667	1	HOSE ASSY	
13	84719557	1	HOSE ASSY	
14	84718707	1	HOSE ASSY	
15	84718985	1	HOSE ASSY	
16	84719294	1	HOSE ASSY	
17		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-10 for details)	
18	84719305	1	HOSE ASSY	
19	84719449	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-4 Hydraulic Hosing to Joysticks & Propel



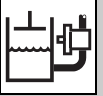
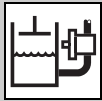


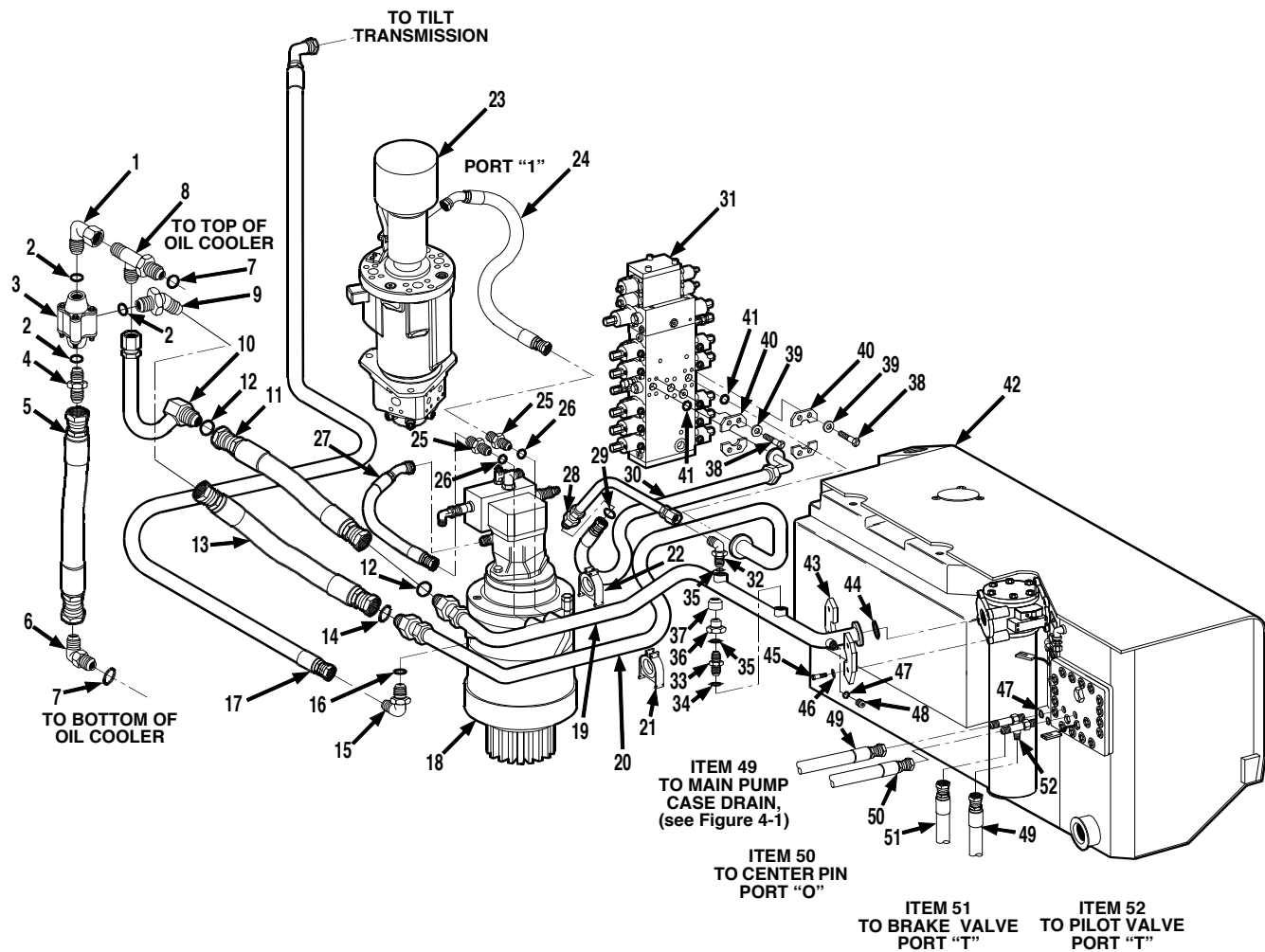
Figure 8-4 Hydraulic Hosing to Joysticks & Propel

Item	Part Number	Qty.	Description	Rev.
1		Ref	JOYSTICK, (see Figure 7-1 for details)	
2	84719411	2	HOSE ASSY	
3	84719410	2	HOSE ASSY	
4	88662301	5	CONNECTOR, (includes item 5)	
5	88591204	9	O-RING	
6	88662434	2	BULKHEAD RUN TEE	
7	88662446	3	SWIVEL NUT RUN TEE	
8	88662371	1	ELBOW, 90 DEGREES, (swivel nut)	
9		Ref	DIG BRAKE VALVE, (see Figure 9-34 for details)	
10	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
11	88551009	2	LOCKWASHER, 1/4	
12	84719692	2	HOSE ASSY	
13	88662338	1	BRANCH TEE, (includes item 5)	
14	80333183	1	ORIFICE ELBOW, 90 DEGREES, (includes item 5)	
15	84719064	1	HOSE ASSY	
16	84719318	4	HOSE ASSY	
17		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-10 for details)	
18		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
19	84719294	1	HOSE ASSY	
20	88662471	2	CONNECTOR, (includes item 5)	
21	84719326	1	HOSE ASSY	
22	84719559	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-5 Dump Circuit



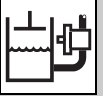
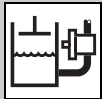


Figure 8-5 Dump Circuit

Item	Part Number	Qty.	Description	Rev.
1	80333166	1	ELBOW, 90 DEGREES, (includes item 2)	
2	88591209	3	O-RING	
3		Ref	THERMAL BY-PASS VALVE ASSY, (see Figure 9-38 for details)	
4	88662313	1	CONNECTOR, (includes item 2)	
5	84719697	1	HOSE ASSY	
6	88662334	1	ELBOW, 90 DEGREES, (includes item 7)	
7	88591210	2	O-RING	
8	88662520	1	RUN TEE, (includes item 2)	
9	88662422	1	ELBOW, 45 DEGREES, (includes item 7)	
10	80333153	1	OIL COOLER DUMP TUBE	
11	84719552	1	HOSE ASSY	
12	88591510	2	O-RING	
13	84719551	1	HOSE ASSY	
14	88591509	1	O-RING	
15	88662436	1	ELBOW, 90 DEGREES, (includes item 16)	
16	88591207	1	O-RING	
17	84718809	1	HOSE ASSY	
18		Ref	SWING TRANSMISSION INSTALLATION, (see Figure 9-19 for details)	
19	80333168	1	DUMP TUBE	
20	80333169	1	TUBE ASSY	
21	90205792	1	CLAMP ASSY, 1-1/4	
22	90205793	1	CLAMP ASSY, 1-1/2	
23		Ref	CENTER PIN ASSY, (see Figure 9-28 for details)	
24	84719657	1	HOSE ASSY	
25	88662302	2	CONNECTOR, (includes item 26)	
26	88591205	2	O-RING	
27	84719656	1	HOSE ASSY	
28	80333175	1	TUBE ASSY	
29	88591509	1	O-RING	
30	84719590	1	HOSE ASSY	
31		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
32	88662333	1	ELBOW, 90 DEGREES, (includes item 35)	
33	88662027	1	ELBOW, 90 DEGREES, (includes item 34)	
34	88591207	1	O-RING	
35	88591209	2	O-RING	
36	83451129	1	QUICK-DISCONNECT MALE COUPLING	
	83451128	1	QUICK-DISCONNECT FEMALE COUPLING	
37	83623026	1	DUST CAP, (male)	
	83623027	1	DUST CAP, (female)	
38	88201036	8	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
39	88551011	8	LOCKWASHER, 3/8	
40	84711333	4	FLANGE HALF	
41	91083106	2	O-RING	
42		Ref	HYDRAULIC RESERVOIR ASSY, (see Figure 9-18 for details)	
43	84711427	2	FLANGE HALF	
44	77383038	1	O-RING	
45	88201067	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
46	88551013	4	LOCKWASHER, 1/2	
47	88591205	3	O-RING	



HYDRAULIC CIRCUITS

Figure 8-5 Dump Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.
48	88662193	1	HEX SOCKET HD PLUG, (includes item 47)	
49	84718985	2	HOSE ASSY	
50	84719566	1	HOSE ASSY	
51	84718608	1	HOSE ASSY	
52	88662347	2	RUN TEE, (includes item 47)	

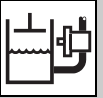
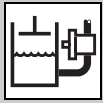


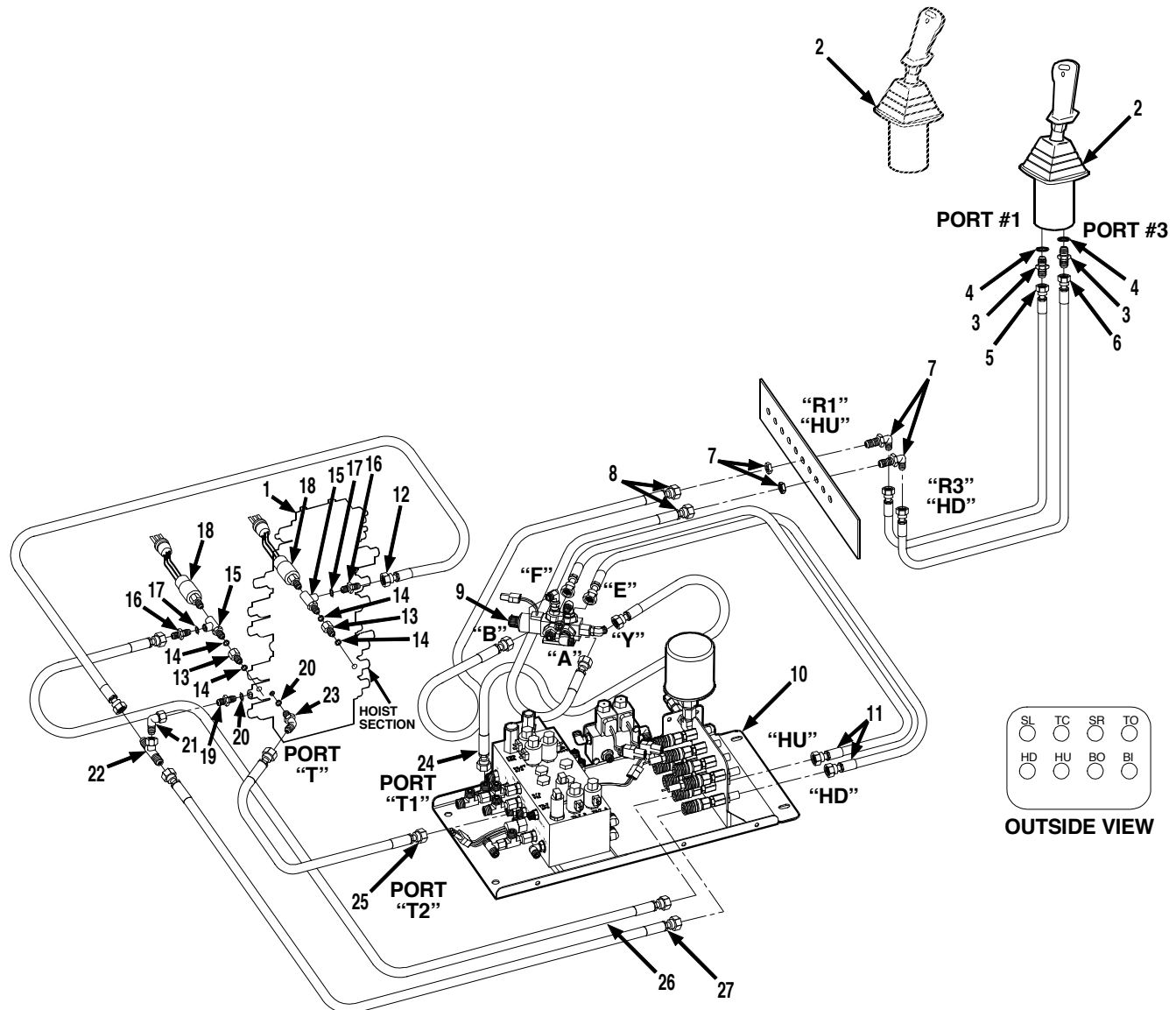
Figure 8-5 Dump Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC CIRCUITS

Figure 8-6 Hoist Pilot



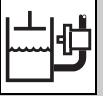
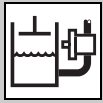


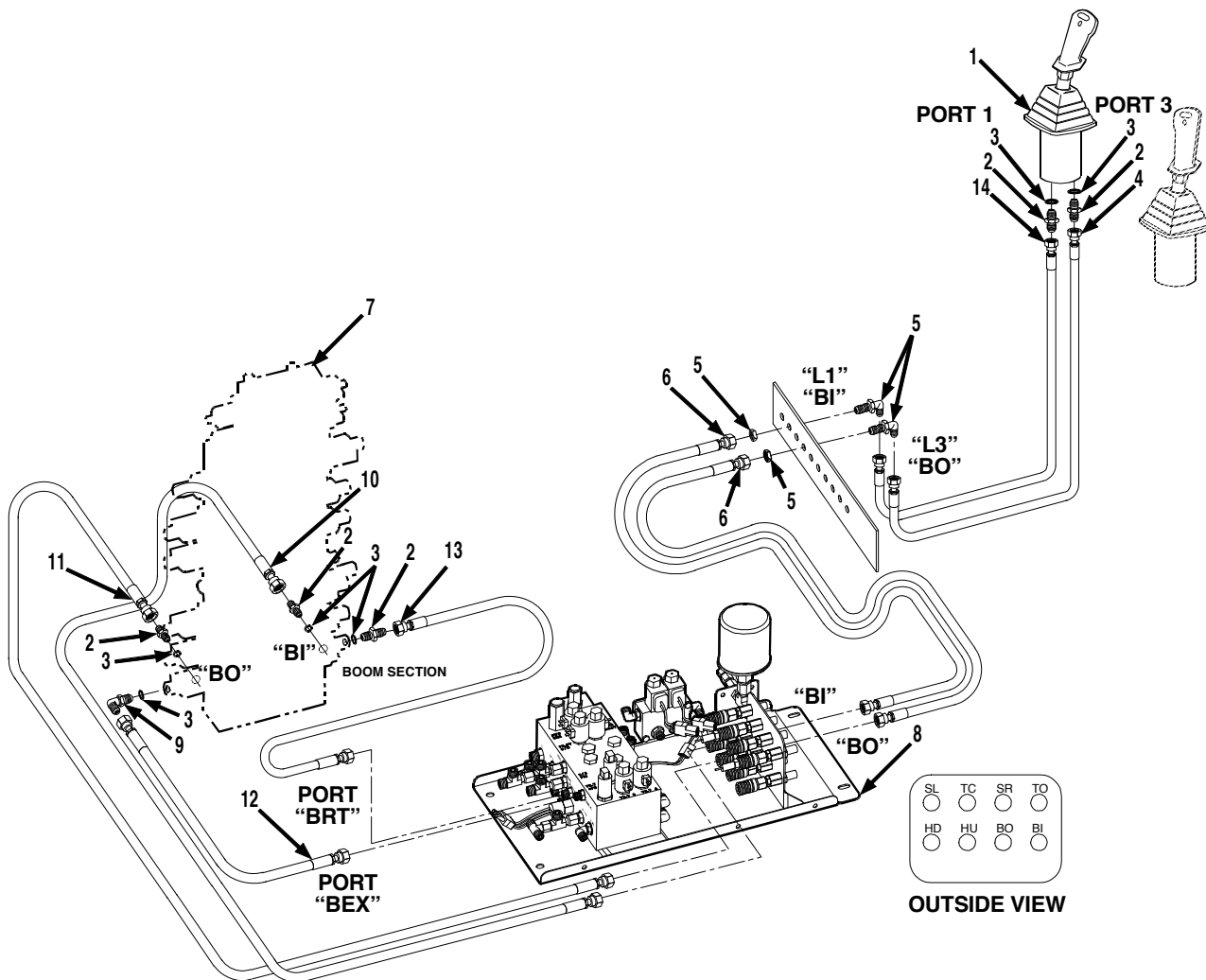
Figure 8-6 Hoist Pilot

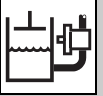
Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2		Ref	JOYSTICK, (see Figure 7-1 for details)	
3	88662471	2	CONNECTOR, (includes item 4)	
4	88591204	4	O-RING	
5	84719412	1	HOSE ASSY	
6	84719413	1	HOSE ASSY	
7	80333045	2	BULKHEAD UNION ELBOW	
8	84719658	2	HOSE ASSY	
9		Ref	SIX-WAY VALVE ASSY, (see Figure 9-33 for details)	
10		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-10 for details)	
11	84719586	2	HOSE ASSY	
12	84719306	1	HOSE ASSY	
13	80333052	2	REDUCING BUSHING, (includes item 14)	
14		4	O-RING	
15	80633132	2	SPECIAL BRANCH TEE, (includes item 14)	
16	88662300	2	CONNECTOR, (includes item 17)	
17	88591202	2	O-RING	
18	80333100	2	PRESSURE SWITCH	
19	88662471	1	CONNECTOR, (includes item 20)	
20	88591204	2	O-RING	
21	88662370	1	ELBOW, 90 DEGREES, (swivel nut)	
22	88662353	1	SPECIAL BRANCH TEE	
23	88662489	1	ELBOW, 90 DEGREES, (includes item 20)	
24	84719064	1	HOSE ASSY	
25	84719578	1	HOSE ASSY	
26	84719297	1	HOSE ASSY	
27	84719296	1	HOSE ASSY	



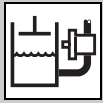
HYDRAULIC CIRCUITS

Figure 8-7 Boom Pilot



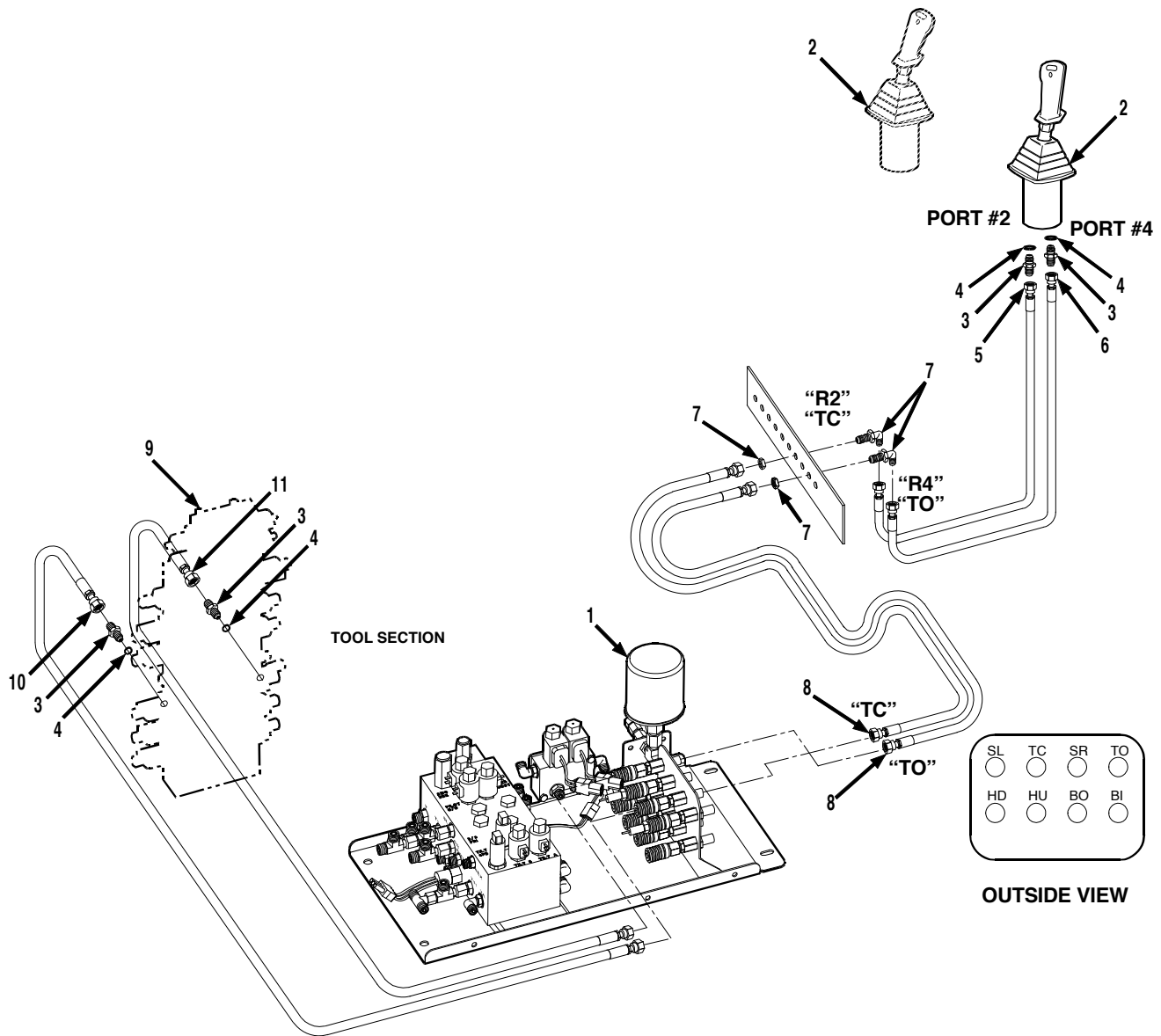
**Figure 8-7 Boom Pilot**

Item	Part Number	Qty.	Description	Rev.
1		Ref	JOYSTICK, (see Figure 7-1 for details)	
2	88662471	5	CONNECTOR, (includes item 3)	
3	88591204	6	O-RING	
4	84719412	2	HOSE ASSY	
5	80333045	2	BULKHEAD UNION ELBOW, 90 DEGREES	
6	84719558	2	HOSE ASSY	
7		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
8		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-10 for details)	
9	88662489	1	ELBOW, 90 DEGREES, (includes item 3)	
10	84719298	1	HOSE ASSY	
11	84719334	1	HOSE ASSY	
12	84719579	1	HOSE ASSY	
13	84719315	1	HOSE ASSY	
14	84719413	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-8 Tool Pilot



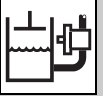
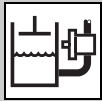


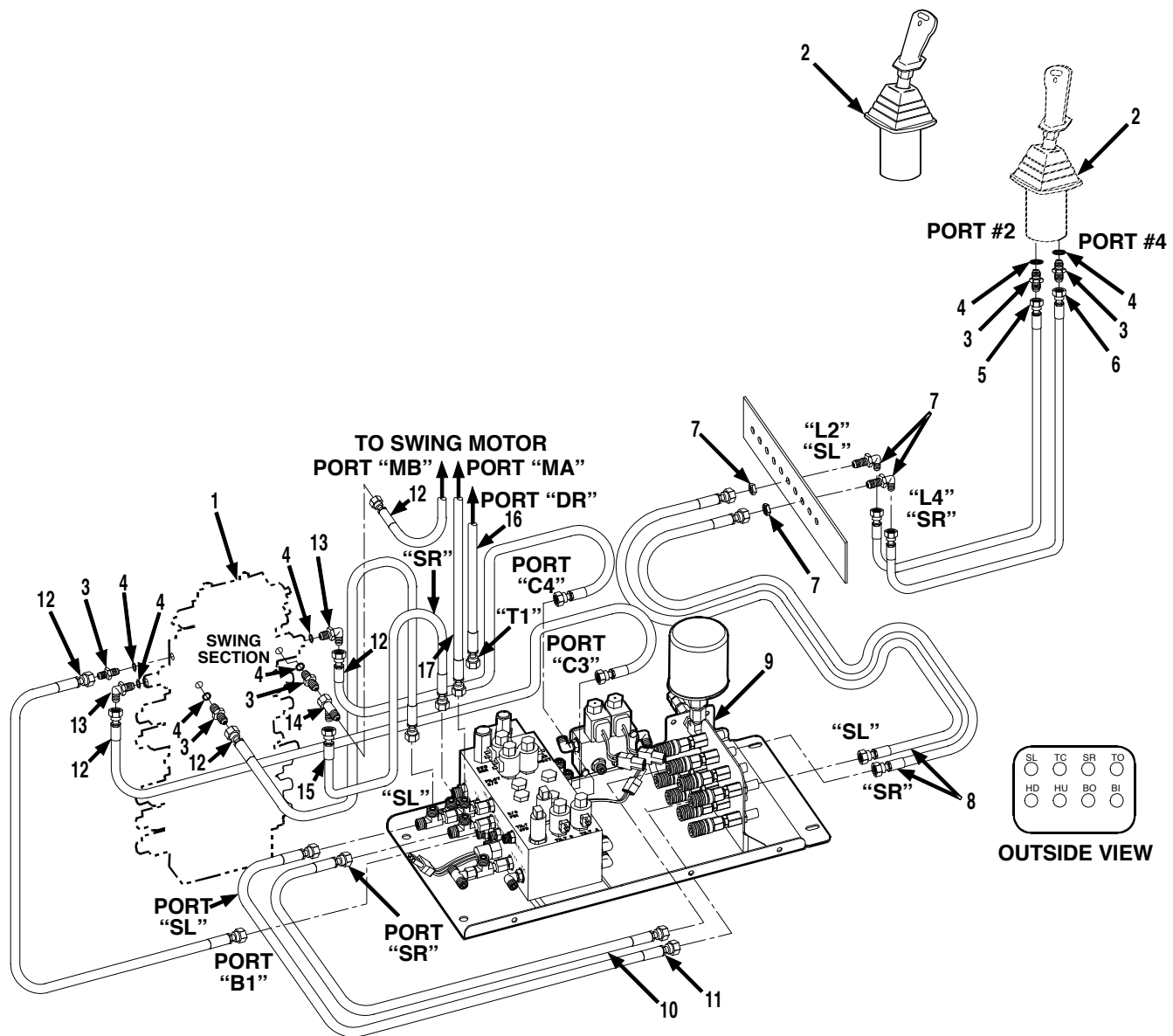
Figure 8-8 Tool Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	PILOT MANIFOLD VALVE TRAY, (see Figure 9-10 for details)	
2		Ref	JOYSTICK, (see Figure 7-1 for details)	
3	88662471	4	CONNECTOR, (includes item 4)	
4	88591204	4	O-RING	
5	84719412	1	HOSE ASSY	
6	84719413	1	HOSE ASSY	
7	80333045	2	BULKHEAD UNION ELBOW	
8	84719312	2	HOSE ASSY	
9		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
10	84719289	1	HOSE ASSY	
11	84719290	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-9 Swing & Swing Brake Pilot



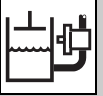


Figure 8-9 Swing & Swing Brake Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2		Ref	JOYSTICK, (see Figure 7-1 for details)	
3	88662471	5	CONNECTOR, (includes item 4)	
4	88591204	7	O-RING	
5	84719413	1	HOSE ASSY	
6	84719412	1	HOSE ASSY	
7	80333045	2	BULKHEAD UNION ELBOW	
8	84719558	2	HOSE ASSY	
9		Ref	PILOT MANIFOLD TRAY ASSY, (see Figure 9-10 for details)	
10	84719450	1	HOSE ASSY	
11	84719560	1	HOSE ASSY	
12	84719559	5	HOSE ASSY	
13	88662489	2	ELBOW, 90 DEGREES, (includes item 4)	
14	80233259	1	SWIVEL NUT RUN TEE	
15	84719312	1	HOSE ASSY	
16	84719324	1	HOSE ASSY	
17	84719295	1	HOSE ASSY	

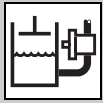
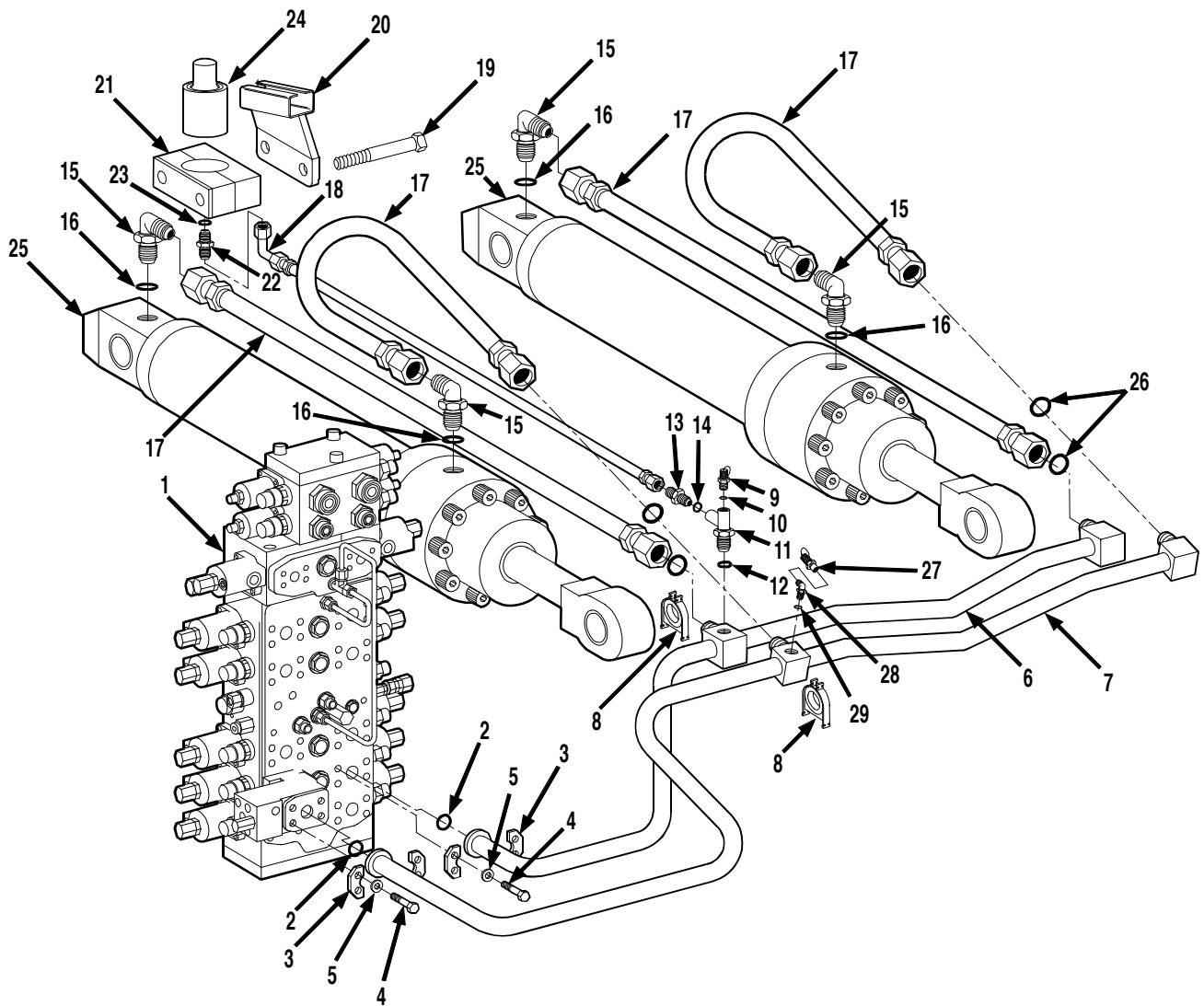


Figure 8-10 Hoist Cylinder



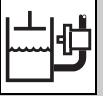


Figure 8-10 Hoist Cylinder

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	80933066	2	O-RING	
3	84712737	4	FLANGE HALF	
4	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
5	88551011	8	LOCKWASHER, 3/8	
6	80333064	1	TUBE ASSY	
7	80333065	1	TUBE ASSY	
8	91053413	2	CUSHION CLAMP, 1"	
9	77133089	1	MINI-CHECK COUPLING, (includes item 10)	
10	83763056	1	VITON O-RING, (lubricate lightly)	
11	80633113	1	RUN TEE, (includes item 12)	
12		1	O-RING	
13	88662471	1	CONNECTOR, (includes item 14)	
14	88591204	1	O-RING	
15	88662332	4	ELBOW, 90 DEGREES, (includes item 16)	
16	88591207	4	O-RING	
17	84719329	4	HOSE ASSY	
18	84719268	1	HOSE ASSY	
19	88201062	2	HEX HD CAPSCREW, 7/16-14X4, GR5	
20	80336008	1	BRACKET WELDMENT	
21	80313020	1	CLAMP SET	
22	80633114	1	ORIFICE ADAPTER, (includes item 23)	
23		1	O-RING	
24	80933366	1	ACCUMULATOR	
25		Ref	HOIST CYLINDER ASSY, (see Figure 9-1 for details)	
26	88591508	4	O-RING	
27	91143172	1	MINI-CHECK COUPLING	
28	88662064	1	ELBOW, 90 DEGREES, (includes item 29)	
29	88591204	1	O-RING	

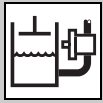
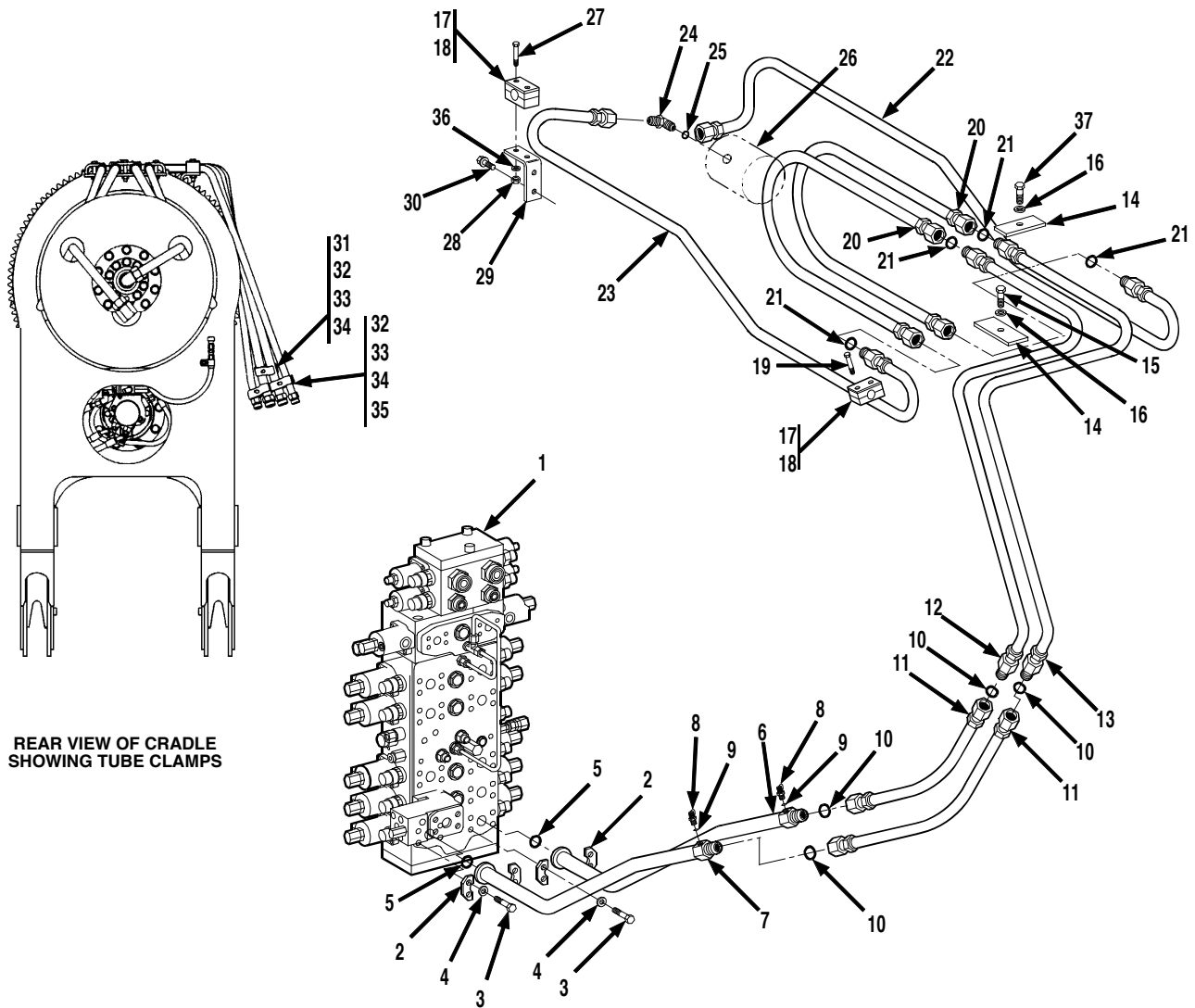


Figure 8-11 Boom Cylinder



REAR VIEW OF CRADLE
SHOWING TUBE CLAMPS

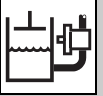
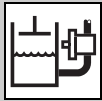


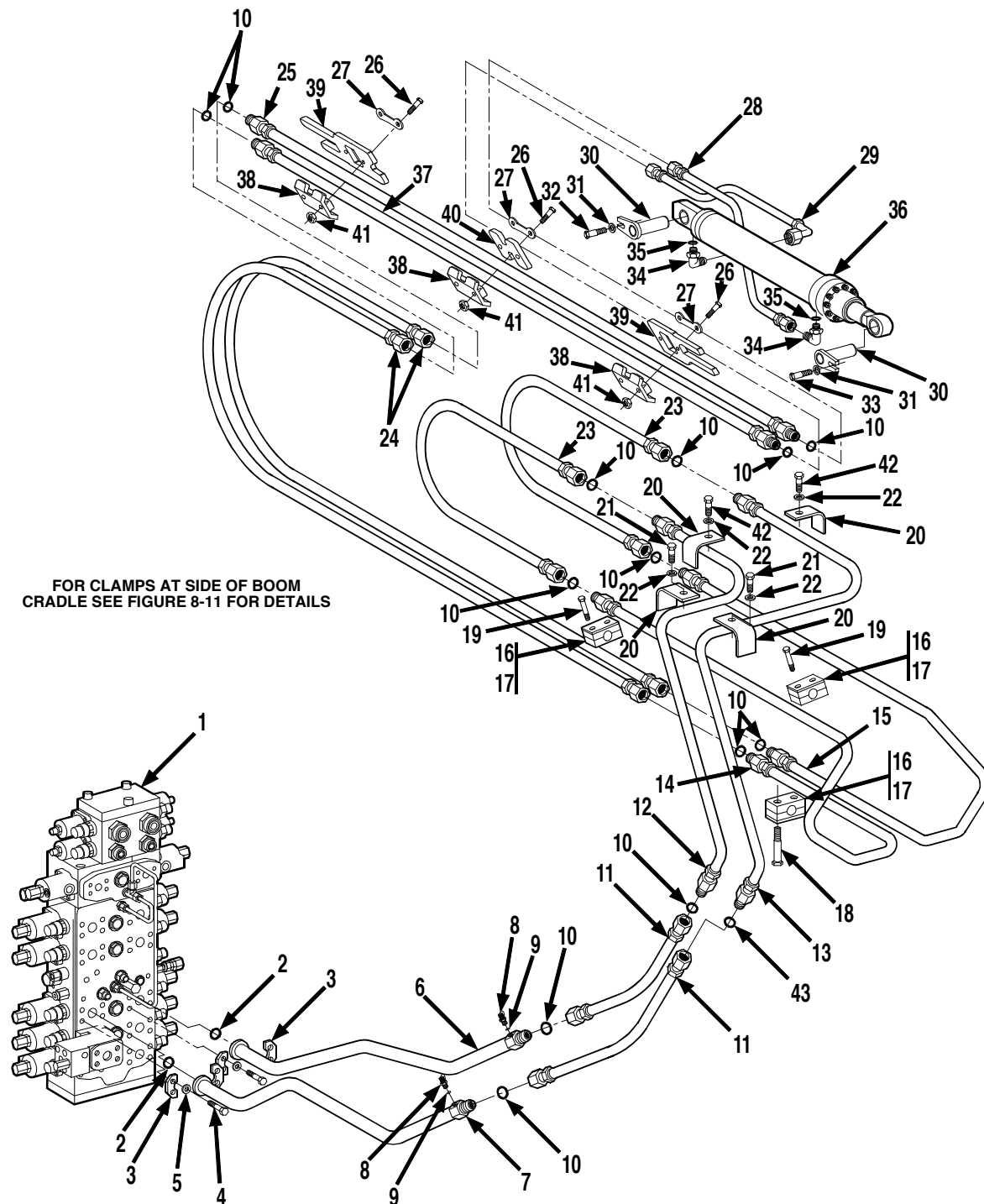
Figure 8-11 Boom Cylinder

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	84712737	4	FLANGE HALF	
3	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
4	88551011	8	LOCKWASHER, 3/8	
5	80933066	2	O-RING	
6	80333059	1	TUBE ASSY	
7	80333060	1	TUBE ASSY	
8	77133089	2	MINI-CHECK COUPLING, (includes item 9)	
9	83763056	2	VITON O-RING, (lubricate lightly)	
10	88591508	4	O-RING	
11	84719452	2	HOSE ASSY	
12	80323017	1	TUBE ASSY	
13	80323016	1	TUBE ASSY	
14	80321083	2	TUBE CLAMP	
15	88201071	2	HEX HD CAPSCREW, 1/2-13X3-1/2, GR5	
16	88551013	2	LOCKWASHER, 1/2	
17	83251291	3	COVER PLATE	
18	83251289	3	CLAMP SET	
19	88201043	4	HEX HD CAPSCREW, 3/8-16X3, GR5	
20	84719401	2	HOSE ASSY	
21	88591510	4	O-RING	
22	80323037	1	TUBE ASSY	
23	80323009	1	TUBE ASSY	
24	88662334	1	ELBOW, 90 DEGREES, (includes item 25)	
25	88591210	1	O-RING	
26		Ref	BOOM CYLINDER ASSY, (see Figure 9-2 for details)	
27	88201046	2	HEX HD CAPSCREW, 3/8-16X3-3/4, GR5	
28	88521206	2	HEX LOCKNUT, 3/8-16	
29	80421130	1	CLAMP BRACKET	
30	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
31	80321085	2	CLAMP	
32	80221281	3	SPACER	
33	88211073	3	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8	
34	88521206	3	HEX LOCKNUT, 3/8-16	
35	80221277	4	CLAMP	
36	88561004	2	FLAT WASHER, 3/8	
37	88201073	1	HEX HD CAPSCREW, 1/2-13X3, GR5	



HYDRAULIC CIRCUITS

Figure 8-12 Tool Cylinder



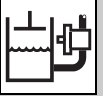
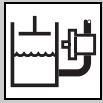


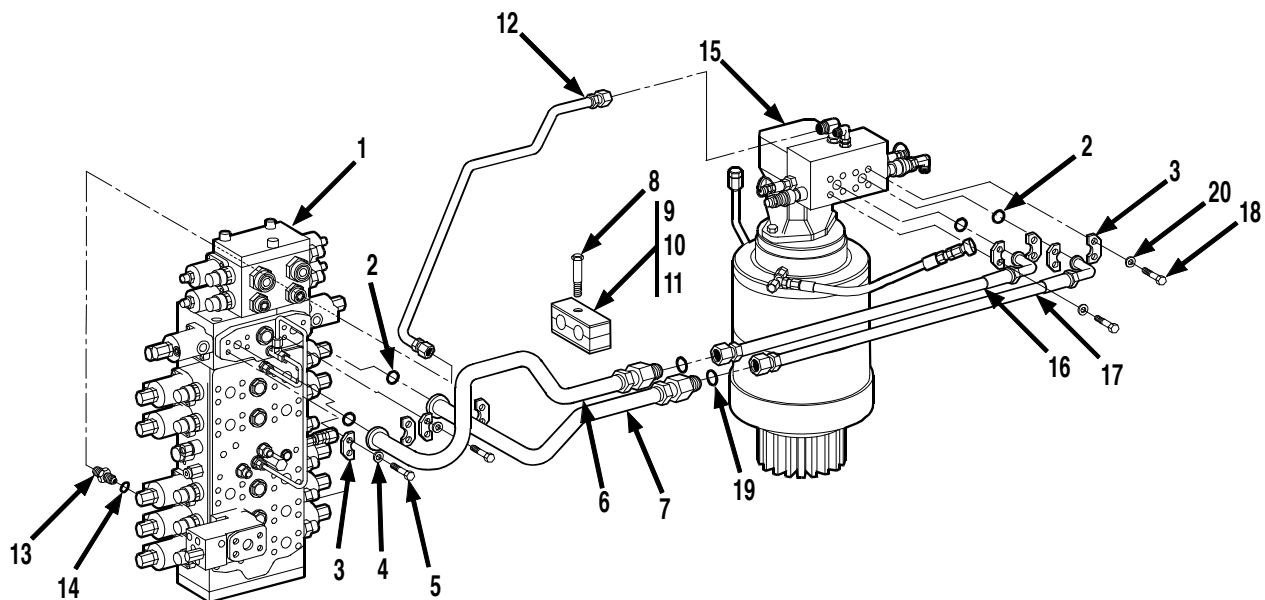
Figure 8-12 Tool Cylinder

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	80933066	2	O-RING	
3	84712737	4	FLANGE HALF	
4	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
5	88551011	8	LOCKWASHER, 3/8	
6	80333062	1	TUBE ASSY	
7	80333061	1	TUBE ASSY	
8	77133089	2	MINI-CHECK COUPLING, (includes item 9)	
9	83763056	2	VITON O-RING, (lubricate lightly)	
10	88591508	14	O-RING	
11	84719337	2	HOSE ASSY	
12	80323015	1	TUBE ASSY	
13	80323014	1	TUBE ASSY	
14	80323007	1	TUBE ASSY	
15	80323006	1	TUBE ASSY	
16	83253009	6	CLAMP SET	
17	83253010	6	COVER PLATE	
18	88201042	4	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
19	88201040	8	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5	
20	80321084	4	TUBE CLAMP	
21	88201071	2	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5	
22	88551013	4	LOCKWASHER, 1/2	
23	84718116	2	HOSE ASSY	
24	84719176	2	HOSE ASSY	
25	80323042	1	TUBE ASSY	
26	88201067	6	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5, (Before S/N 0330647 including 0330648)	
	88201068	6	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5, (S/N 0330647 & After excluding 0330648)	
27	80221278	3	KEEPER	
28	84719267	1	HOSE ASSY	
29	84719174	1	HOSE ASSY, (Before S/N 0330647 including 0330648)	
	84719999	1	HOSE ASSY, (S/N 0330647 & After excluding 0330648)	
30	80926014	2	PIN WELDMENT	
31	83621283	2	SPECIAL WASHER	
32	88201063	1	HEX HD CAPSCREW, 1/2-13X3/4, GR5	
33	83201129	1	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8	
34	88662332	2	ELBOW, 90 DEGREES, (includes item 35)	
35	88591207	2	O-RING	
36		Ref	TOOL CYLINDER ASSY, (see Figure 9-3 for details)	
37	80323043	1	TUBE ASSY	
38	80423038	3	TOP CLAMP WELDMENT	
39	80321136	2	BOTTOM PLATE	
40	80321137	1	CENTER CLAMP PLATE	
41	88521008	6	HEX LOCKNUT, 1/2-13, (S/N 0330647 & After excluding 0330648)	
42	88201071	2	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5	
43	88591509	1	O-RING	



HYDRAULIC CIRCUITS

Figure 8-13 Swing Motor



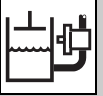
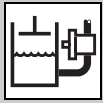


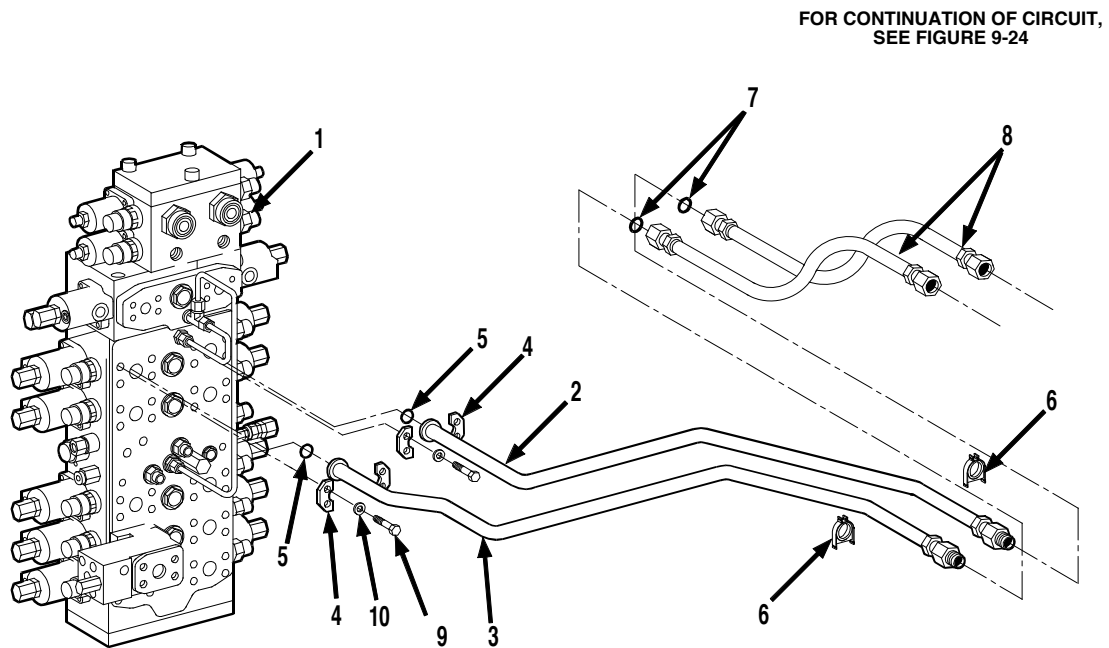
Figure 8-13 Swing Motor

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	80933066	4	O-RING	
3	84712737	8	FLANGE HALF	
4	88551011	8	LOCKWASHER, 3/8	
5	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
6	80333075	1	TUBE ASSY	
7	80333042	1	TUBE ASSY	
8	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
9	77133137	1	COVER PLATE	
10	77133279	1	CLAMP SET	
11	77133138	1	BASE PLATE	
12	80333082	1	TUBE ASSY	
13	88662304	1	CONNECTOR, (includes item 14)	
14	88591209	1	O-RING	
15		Ref	SWING TRANSMISSION, (see Figure 9-20 for details)	
16	84719454	1	HOSE ASSY	
17	84719453	1	HOSE ASSY	
18	83201073	8	HEX HD CAPSCREW, 3/8-16X4-1/2, GR5, (S/N 0339301 thru 0334334)	
	80483108	8	HEX HD CAPSCREW, M10X1.5, (S/N 0334334 & After)	
19	88591508	2	O-RING	
20	83191013	8	LOCKWASHER, M10	



HYDRAULIC CIRCUITS

Figure 8-14 Tilt Motor



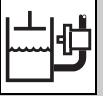
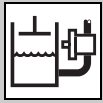


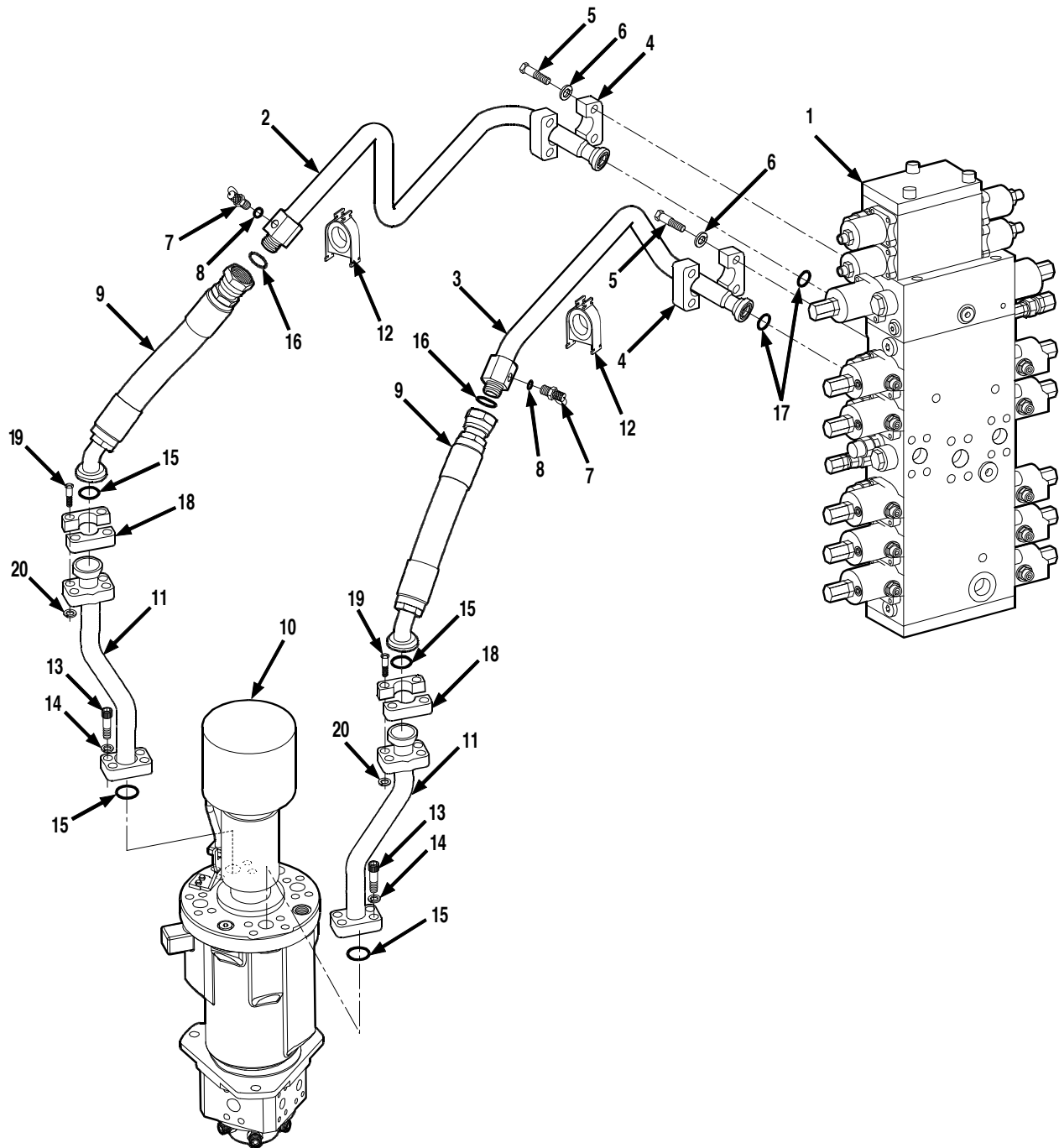
Figure 8-14 Tilt Motor

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	80333084	1	TUBE ASSY	
3	80333083	1	TUBE ASSY	
4	84712737	4	FLANGE HALF	
5	80933066	2	O-RING	
6	91083217	2	CUSHION CLAMP	
7	88591506	2	O-RING	
8	84719338	2	HOSE ASSY	
9	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
10	88551011	8	LOCKWASHER, 3/8	



HYDRAULIC CIRCUITS

Figure 8-15 Upper Propelling



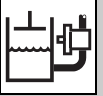
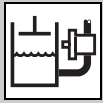


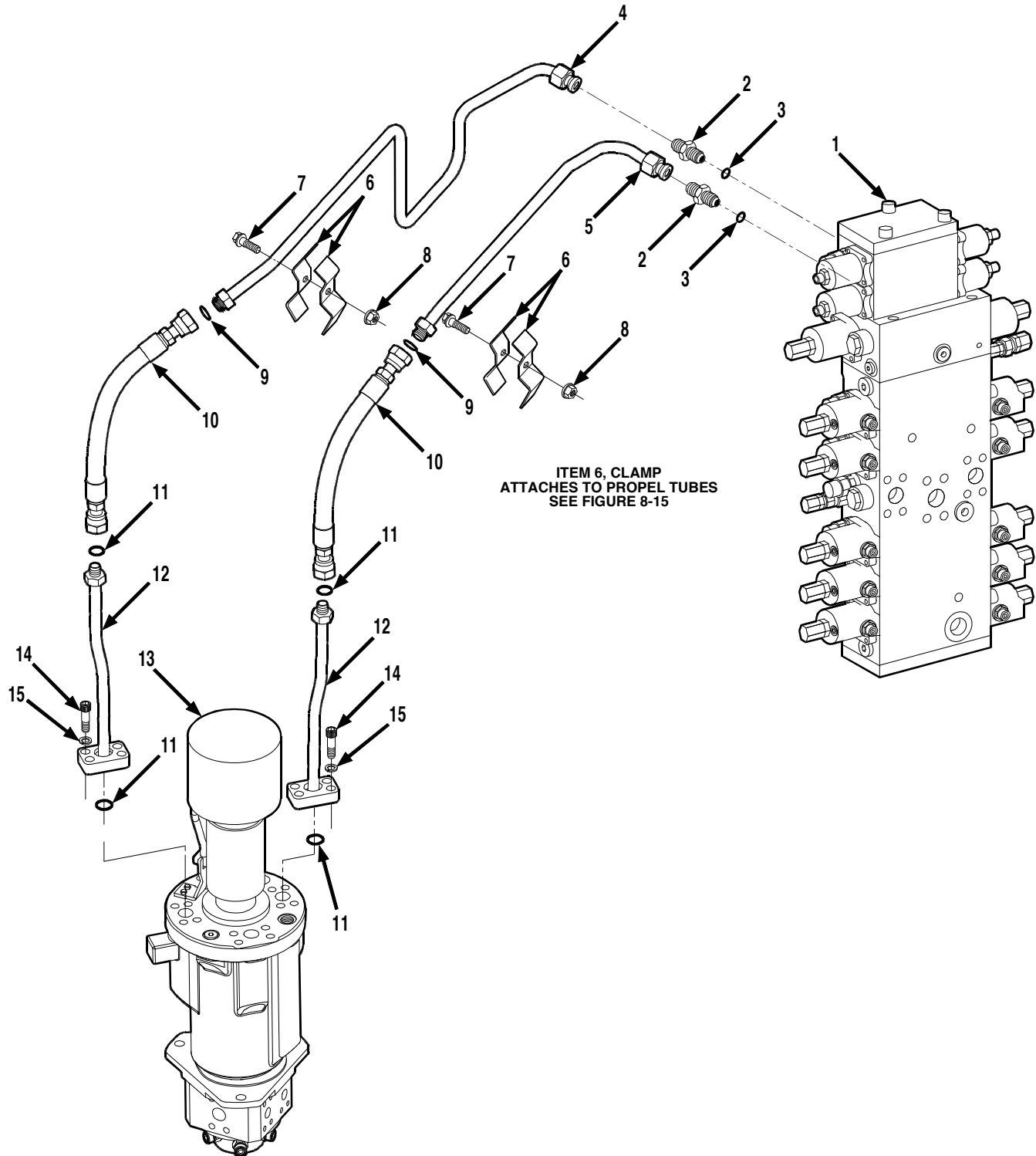
Figure 8-15 Upper Propelling

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	80333141	1	TUBE ASSY	
3	80333142	1	TUBE ASSY	
4	84712737	4	FLANGE HALF	
5	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
6	88551011	8	LOCKWASHER, 3/8	
7	77133089	2	MINI-CHECK COUPLING, (includes item 8)	
8	83763056	2	VITON O-RING, (lubricate lightly)	
9	84719947	2	HOSE ASSY	
10		Ref	CENTER PIN ASSY, (see Figure 9-28 for details)	
11	80333206	2	TUBE ASSY	
12	90205792	2	CUSHION CLAMP, 1-1/4	
13	83191080	8	HEX SOCKET HD CAPSCREW, M12-1.25X40, GR8	
14	83191010	8	LOCKWASHER, M12	
15	91083106	4	O-RING	
16	88591510	2	O-RING	
17	80933066	2	O-RING	
18	84712738	4	FLANGE HALF	
19	88201053	8	HEX HD CAPSCREW, 7/16-14X1-3/4, GR5	
20	88551012	8	LOCKWASHER, 7/16	
	80335018	Ref	PROPEL RETRO FIT KIT, (includes items 9, 11, 13, 14, 15, 18, 19 & 20), (Before S/N 0339330)	



HYDRAULIC CIRCUITS

Figure 8-16 Chassis Supply



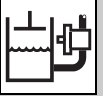
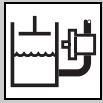


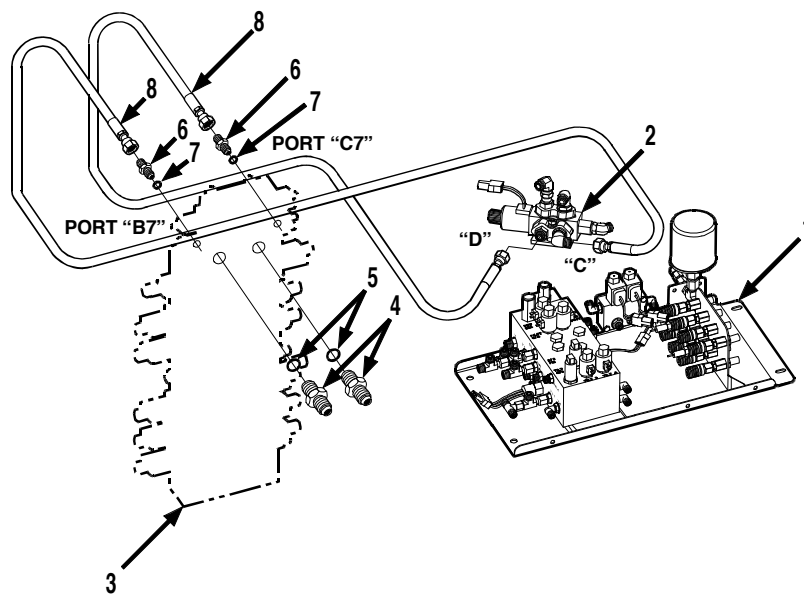
Figure 8-16 Chassis Supply

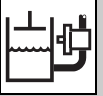
Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
2	88662304	2	CONNECTOR, (includes item 3)	
3	88591209	2	O-RING	
4	80333146	1	TUBE ASSY	
5	80333147	1	TUBE ASSY	
6	80331020	4	CLAMP	
7	77143004	2	WHIZ-LOK SCREW, 5/16-18X1-1/4	
8	77143006	2	WHIZ-LOK NUT, 5/16-18	
9	88591508	2	O-RING	
10	84719589	2	HOSE ASSY	
11	88591510	4	O-RING	
12	80333174	2	TUBE ASSY	
13		Ref	CENTER PIN ASSY, (see Figure 9-28 for details)	
14	83191065	8	HEX SOCKET HD CAPSCREW, M10-1.5X40, GR8	
15	83191013	8	LOCKWASHER, M10	



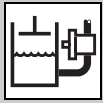
HYDRAULIC CIRCUITS

Figure 8-17 Chassis Supply Pilot



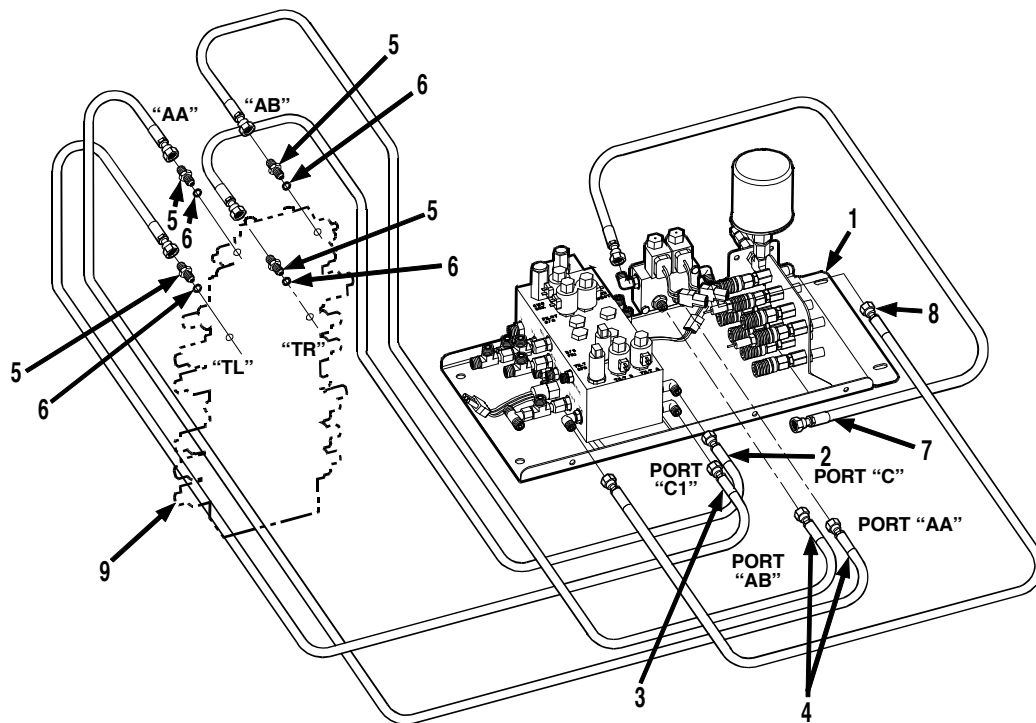
**Figure 8-17 Chassis Supply Pilot**

Item	Part Number	Qty.	Description	Rev.
1		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-10 for details)	
2		Ref	SIX-WAY VALVE ASSY, (see Figure 9-33 for details)	
3		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	
4	88662304	2	CONNECTOR, (includes item 5)	
5	88591209	2	O-RING	
6	88662471	2	CONNECTOR, (includes item 7)	
7	88591204	2	O-RING	
8	84719586	2	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-18 Tilt & Auxiliary Pilot



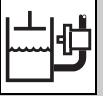
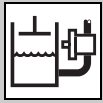


Figure 8-18 Tilt & Auxiliary Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-10 for details)	
2	84719312	1	HOSE ASSY	
3	84719314	1	HOSE ASSY	
4	84719558	2	HOSE ASSY	
5	88662471	4	CONNECTOR, (includes item 6)	
6	88591204	4	O-RING	
7	84719305	1	HOSE ASSY	
8	84719449	1	HOSE ASSY	
9		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-14 for details)	



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SECTION 9

HYDRAULIC COMPONENTS

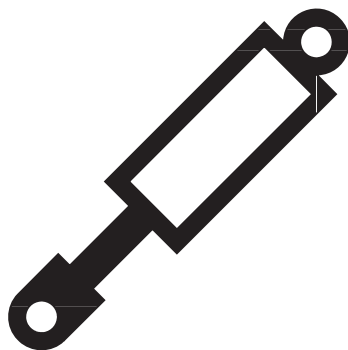
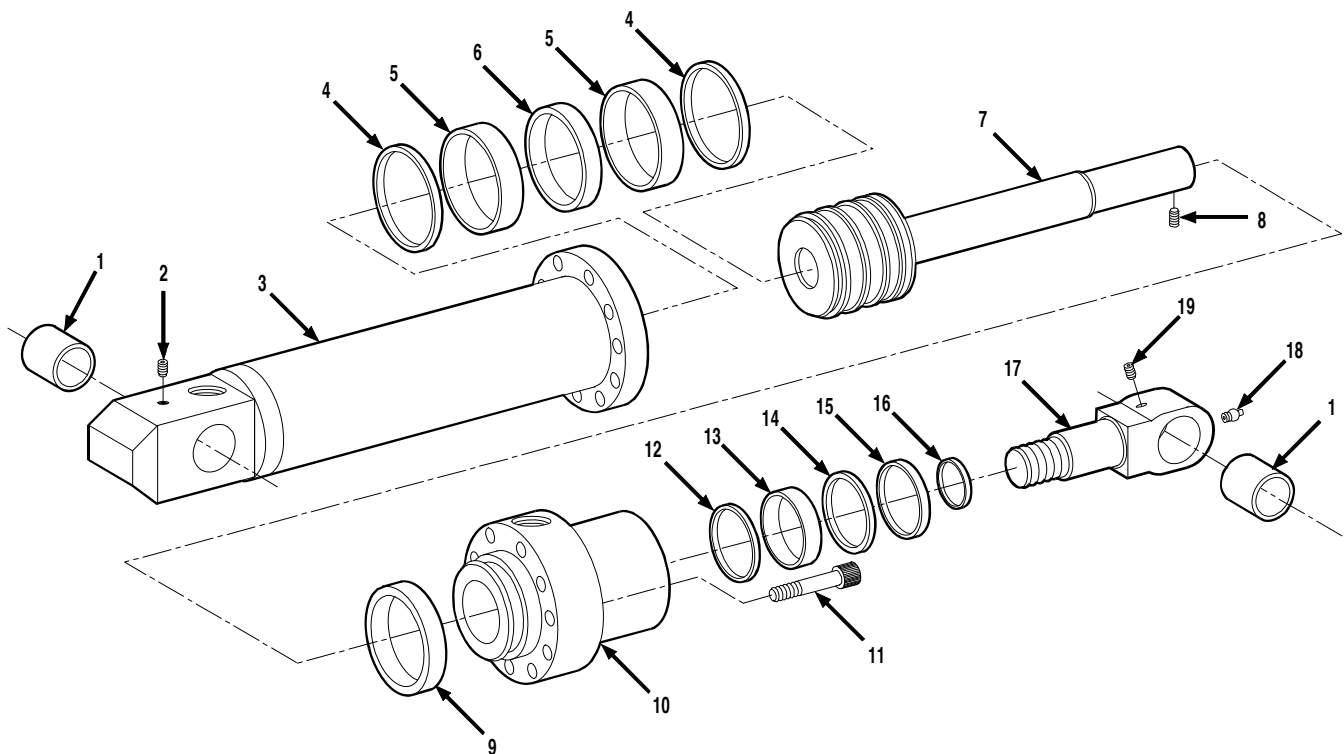




Figure 9-1 Hoist Cylinder Assembly



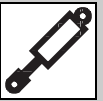
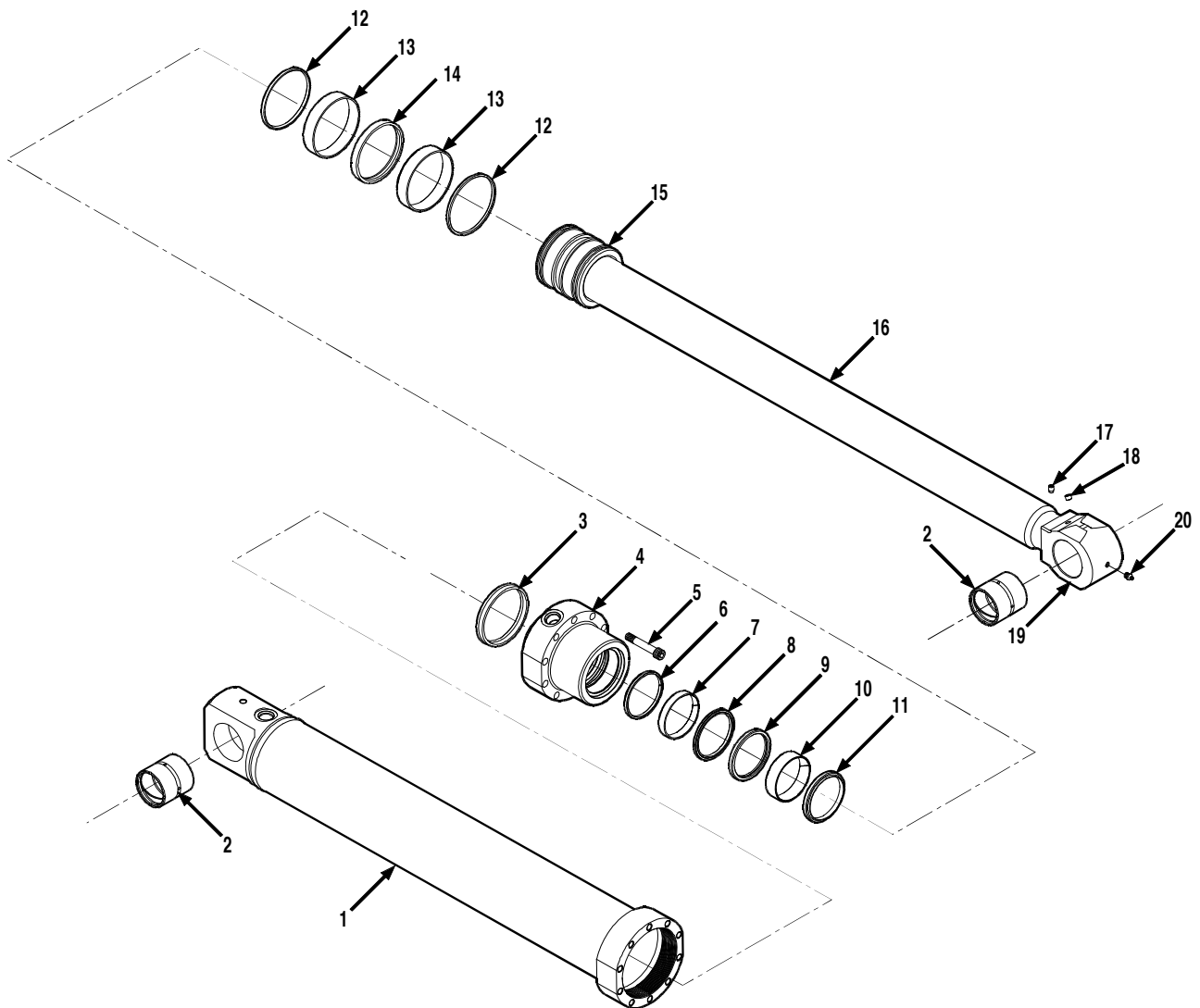


Figure 9-1 Hoist Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005086	2	HOIST CYLINDER ASSY, (includes all items)	
1	80423042	2	BUSHING	
2	80003453	1	THREADED PLUG	
3	80006067	1	CYLINDER TUBE WELDMENT	
4	80003640	2	INGESTION RING	
5	80003639	2	BEARING	
6	80003638	1	PISTON SEAL	
7	80005089	1	PISTON ROD ASSY	
8	88221386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16X1/2	
9	80003617	1	STATIC SEAL	
10	80001575	1	CYLINDER HEAD	
11	88211113	9	HEX SOCKET HD CAPSCREW, 1/3-13X3, GR8, (loctite & torque to 100-110 lb-ft)	
12	80003438	1	INGESTION RING	
13	80003437	2	BEARING	
14	80003624	1	BUFFER SEAL	
15	80003440	1	ROD SEAL	
16	80003644	1	ROD WIPER	
17	80001126	1	ROD EYE	
18	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
19	88711280	1	THREADED PLUG	
	80003621	AR	PACKING KIT, (includes items 4, 5, 6, 9 & 12 thru 16)	



Figure 9-1 Hoist Cylinder Assembly



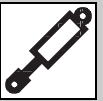
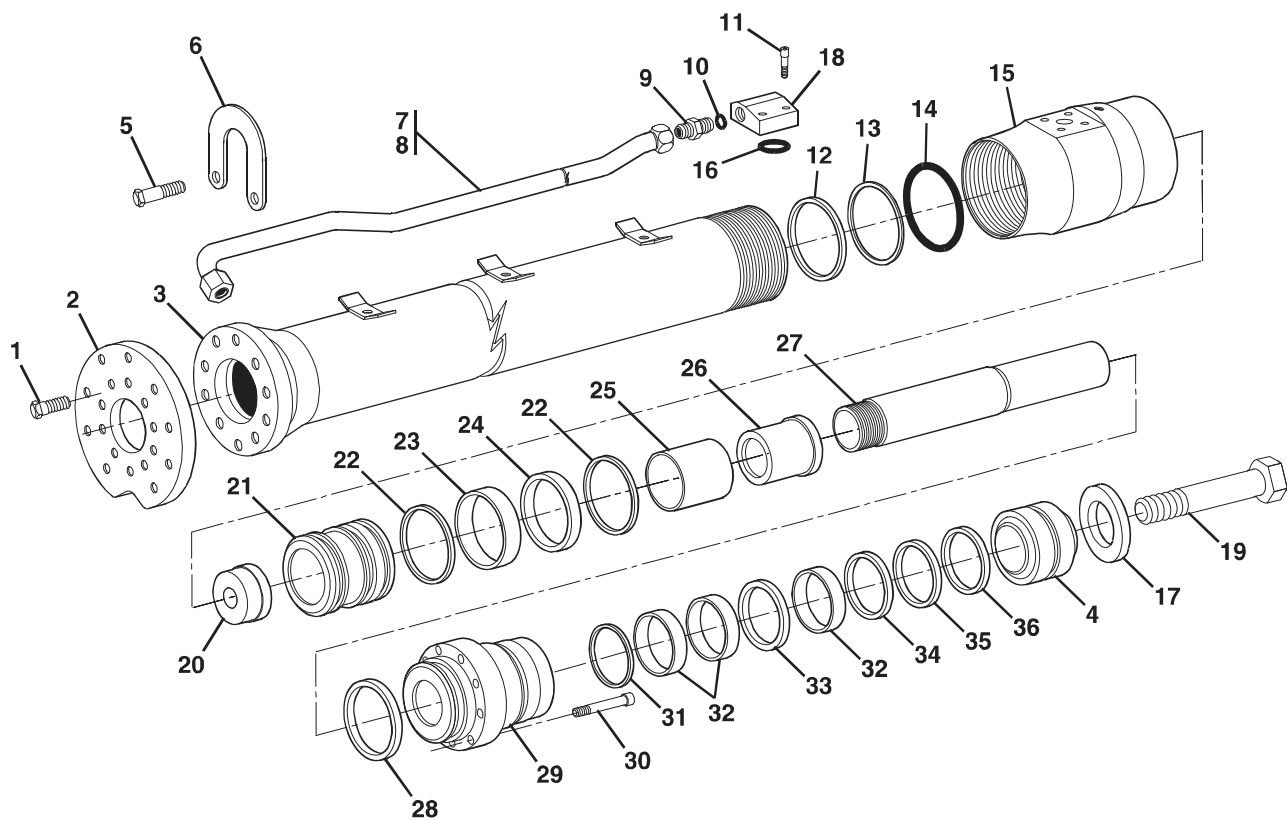


Figure 9-1 Hoist Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005197	2	HOIST CYLINDER ASSY, (includes all items)	
1	80004100	1	TUBE ASSY	
2	83304126	2	BUSHING	
3	80004103	1	SEAL	
4	80004101	1	CYLINDER HEAD	
5	80544004	9	SOCKET HD CAPSCREW,	
6	80004041	1	INGRESSION RING	
7	80524041	1	WEAR RING	
8	80524042	1	BUFFER SEAL	
9	80004086	1	SEAL	
10	80524044	1	WEAR RING	
11	80524045	1	ROD WIPER	
12	80004104	2	INGRESSION RING	
13	80004105	2	WEAR RING	
14	80004102	1	PISTON SEAL	
15		1	PISTON	
16		1	CYLINDER ROD	
17	83304131	1	HEX SOCKET SET SCREW, (half dog point), 3/8-16x1/2	
18	83304146	1	HEX SOCKET PIPE PLUG, 1/8	
19	80004046	1	ROD LUG	
20	7003242	1	LUBE FITTING, STRAIGHT, 1/8	
	80004106	AR	PACKING KIT, (includes items 3, 6, 7, 8, 9, 10, 11, 12, 13 & 14)	
	80514089	1	PISTON ROD ASSY, (includes items 15 & 16)	



Figure 9-2 Boom Cylinder Assembly



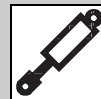
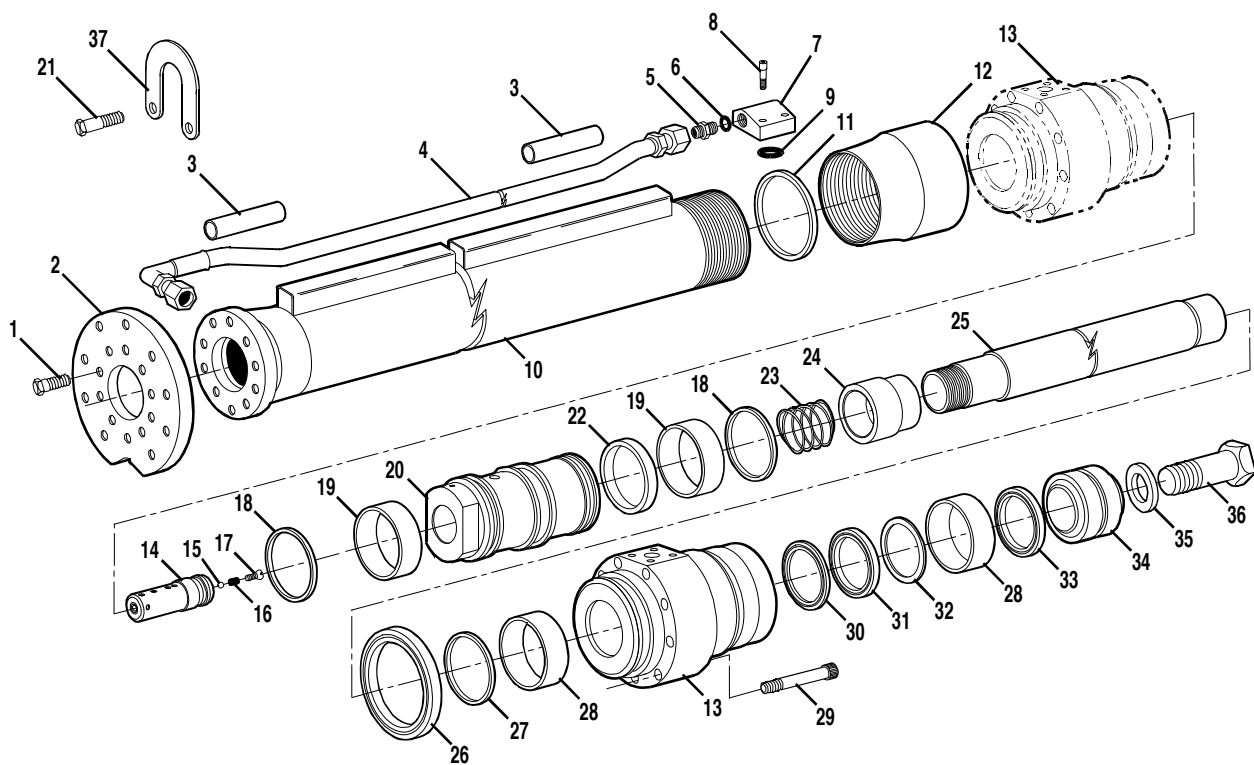


Figure 9-2 Boom Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005133	1	BOOM CYLINDER ASSY, (includes items 3 thru 36)	H
1	80323024	8	HEX HD CAPSCREW, 5/8-11X2, GR8	
2	80321096	1	BOOM CYLINDER MOUNT PLATE	
3	80006069	1	CYLINDER TUBE WELDMENT	
4	80003633	1	SWIVEL BEARING	
5	88201094	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR5	
6	80001642	1	PROTECTOR PLATE	
7	84719470	1	HOSE ASSY	
8	91403528	1	HOSE GUARD	
9	88662304	1	CONNECTOR, (includes item 10)	
10	88591207	1	O-RING	
11	88211071	4	SOCKET HD CAPSCREW, 3/8-16X1, GR8, (loctite & torque to 30-35 lb-ft)	
12	80003616	1	STATIC SEAL	
13	80003666	1	BACK-UP RING	
14	80003667	1	O-RING	
15	80001607	1	THREADED COLLAR	
16	91083106	1	O-RING	
17	80001614	1	WASHER	
18	80001695	1	PORT BLOCK	
19	80003634	1	SOCKET HD CAPSCREW, 1-1/4-12X4, GR8	
20	80003734	1	CUSHION STOP	
21	80001580	1	PISTON	
22	80003637	2	INGESTION RING	
23	80003636	1	BEARING	
24	80003635	1	PISTON SEAL	
25	80003620	1	CUSHION BEARING	
26	80001584	1	PISTON COLLAR	
27		1	PISTON ROD	
28	80003617	1	STATIC SEAL	
29		1	CYLINDER HEAD	
30	88211112	9	SOCKET HD CAPSCREW, 1/2-13X2-3/4, GR8, (loctite & torque to 100-110 lb-ft)	
31	80003610	1	INGESTION RING	
32	80003611	3	BEARING	
33	80003612	1	BUFFER SEAL	
34	80003613	1	ROD SEAL	
35	80003614	1	BACK-UP RING	
36	80003615	1	ROD WIPER	
	80003608	A/R	PACKING KIT, (includes items 12, 13, 14, 22, 23, 24, 28 & 31 thru 36)	
	Consult Factory	A/R	PISTON ROD ASSY, (includes items 27 & 29)	



Figure 9-2 Boom Cylinder Assembly



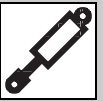
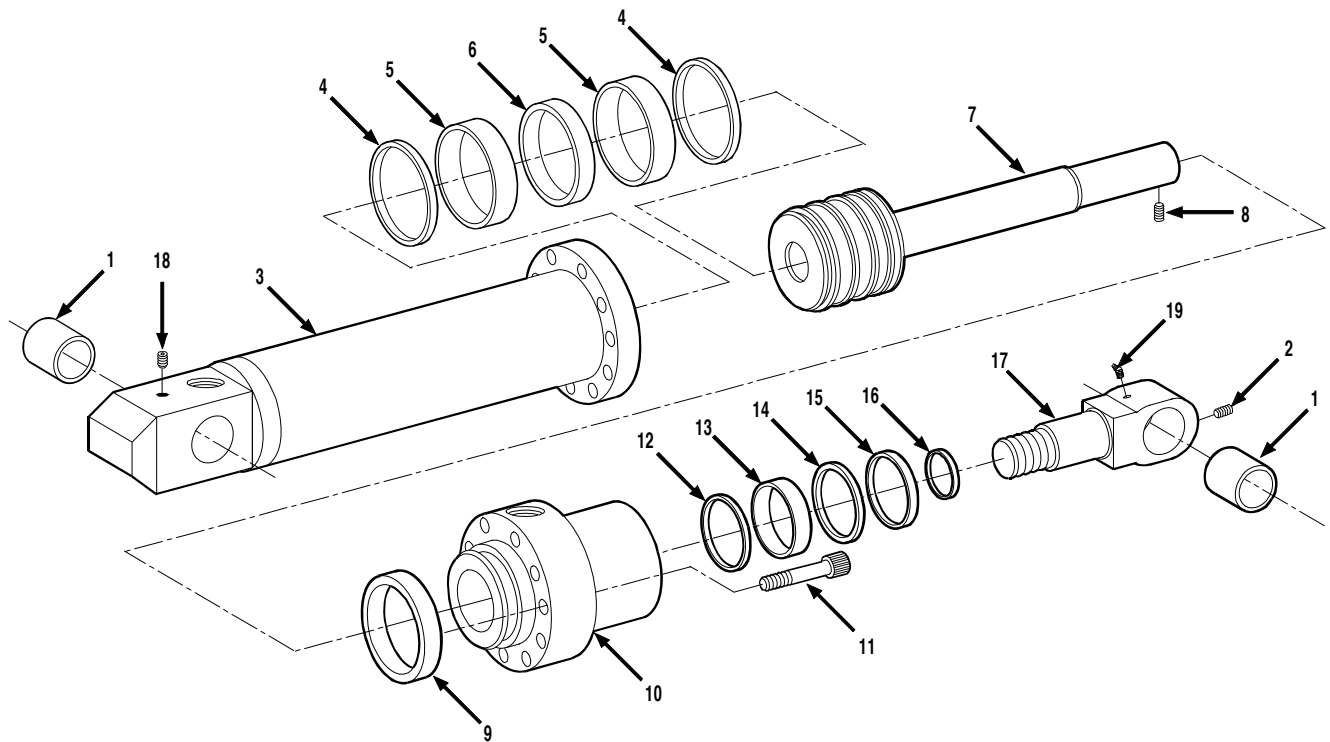


Figure 9-2 Boom Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80325010	1	BOOM CYLINDER ASSY, (includes items 3 thru 37)	A
1	80323020	8	HEX FLANGE BOLT, 5/8-11X2, GR8	
2	80321096	1	BOOM CYLINDER MOUNT PLATE	
3	91403528	2	HOSE GUARD	
4	84719757	1	HOSE ASSY	
5	88662304	1	CONNECTOR, (includes item 6)	
6	88591207	1	O-RING	
7	80321133	1	PORT BLOCK	
8	88211072	4	SOCKET HD CAPSCREW, 3/8-16X1-1/4, GR8, (loctite & torque to 30-35 lb-ft)	
9	91083106	1	O-RING	
10	80326020	1	CYLINDER TUBE WELDMENT, (includes items 11 & 12)	
11	80003616	1	STATIC SEAL	
12	80421079	1	THREADED COLLAR	
13	80421078	1	CYLINDER HEAD	
14	80421237	1	CUSHION PLUNGER	
15	80323040	1	STEEL BALL	
16	80423035	1	SPRING	
17	88241070	1	SOCKET FLAT HD CAPSCREW, 1/2-13X3/4, (loctite & torque to 40-50 lb-ft)	
18	80003637	2	INGESTION RING	
19	80003636	2	BEARING	
20	80421238	1	PISTON, (loctite & torque to 1400 lb-ft)	
21	88201094	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR5	
22	80003635	1	PISTON SEAL	
23	80423006	1	SPRING	
24	80421137	1	CUSHION BEARNG	
25	80321146	1	PISTON ROD	
26	80003617	1	STATIC SEAL	
27	80003610	1	INGESTION RING	
28	80003611	2	BEARING	
29	88211112	9	SOCKET HD CAPSCREW, 1/2-13X2-3/4, GR8, (loctite & torque to 100-110 lb-ft)	
30	80003612	1	BUFFER SEAL	
31	80003613	1	ROD SEAL	
32	80003614	1	BACKUP RING	
33	80003615	1	ROD WIPER	
34	80003633	1	SWIVEL BEARING	
35	80001614	1	WASHER	
36	80003634	1	HEX HD CAPSCREW, 1-1/4-12X4, GR8, (loctite & torque to 1400 lb-ft)	
37	80001642	1	PROTECTOR PLATE	
	80223073	AR	PACKING KIT, (includes items 11, 18, 19, 22, 26 thru 28 & 30 thru 33)	



Figure 9-3 Tool Cylinder Assembly



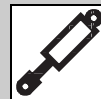
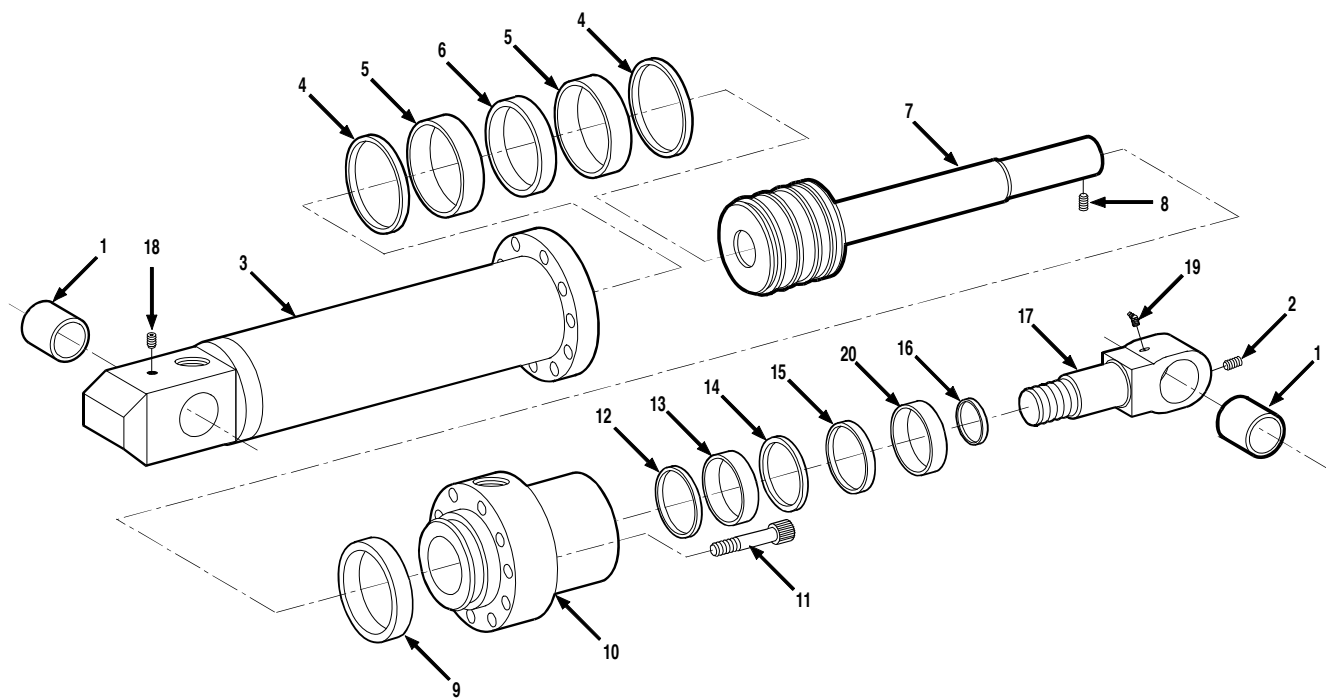


Figure 9-3 Tool Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005087	1	TOOL CYLINDER ASSY, (includes all items)	
1	80423042	2	BUSHING	
2	88711280	1	HEX SOCKET PIPE PLUG, 1/8	
3	80006068	1	CYLINDER TUBE WELDMENT	
4	80003643	2	INGESTION RING	
5	80003642	2	BEARING	
6	80003641	1	PISTON SEAL	
7	80005090	1	PISTON ROD ASSY	
8	88221386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16X1/2	
9	80003628	1	STATIC SEAL	
10	80001578	1	CYLINDER HEAD	
11	88211113	9	HEX SOCKET HD CAPSCREW, 1/2-13X3, GR8	
12	80003438	1	INGESTION RING	
13	80003437	2	BEARING	
14	80003624	1	BUFFER SEAL	
15	80003440	1	ROD SEAL	
16	80003644	1	ROD WIPER	
17	80001126	1	ROD EYE	
18	80003453	1	THREADED PLUG	
19	88671016	1	LUBE FITTING, 90 DEGREES, 1/8	
	80003626	AR	PACKING KIT, (includes items 5, 6, 9 & 12 thru 16)	



Figure 9-3 Tool Cylinder Assembly



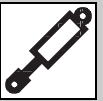
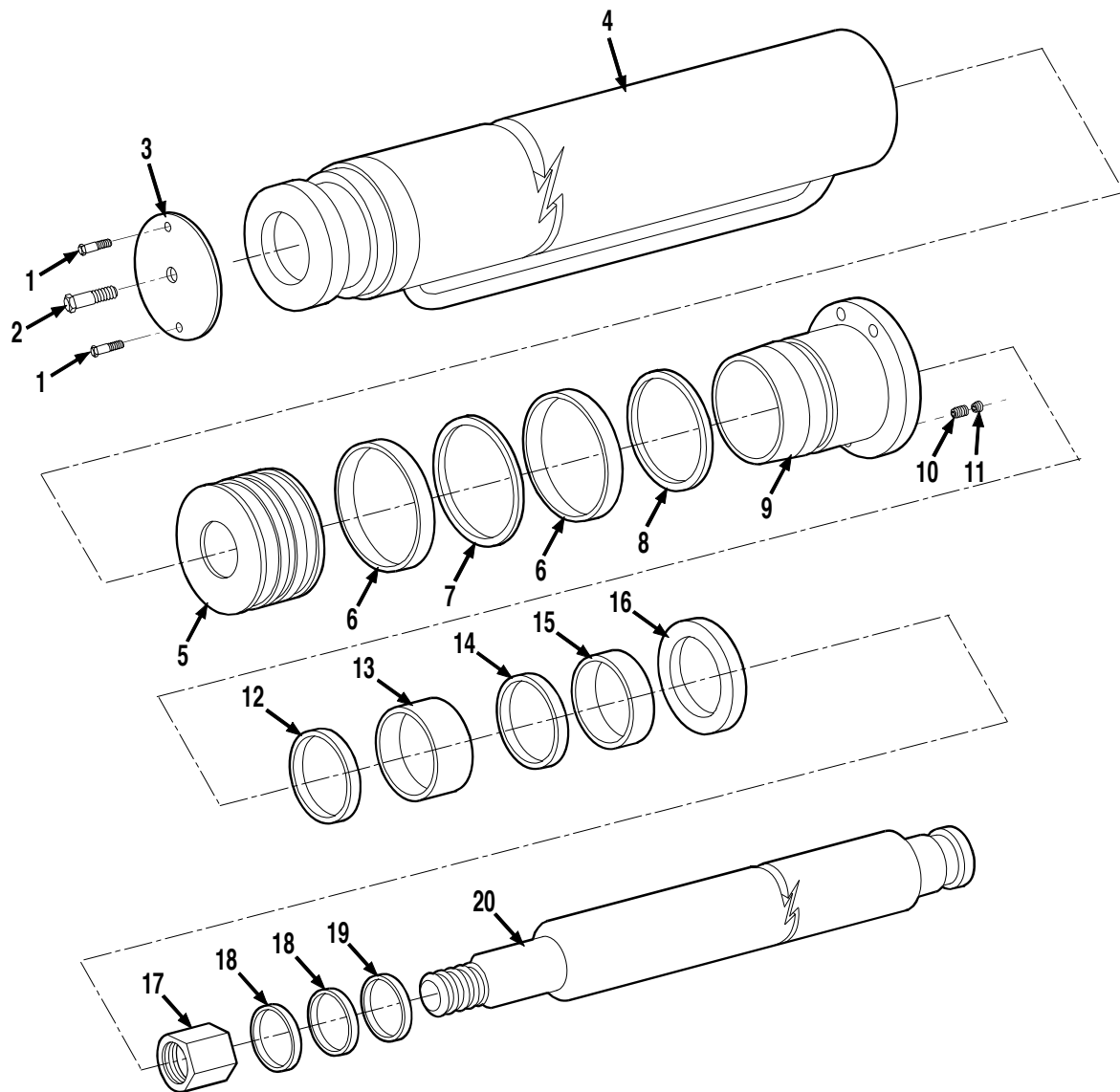


Figure 9-3 Tool Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005198	1	TOOL CYLINDER ASSY, (includes all items)	
1	80004088	2	BUSHING	
2	83304146	1	HEX SOCKET PIPE PLUG, 1/8	
3	80004032	1	CYLINDER TUBE WELDMENT	
4	80004033	2	INGRESSION RING	
5	80004120	2	WEAR RING	
6	80004121	1	PISTON SEAL	
7		1	PISTON ROD	
8	80004123	2	HEX SOCKET SET SCREW, 3/8-16X1/2	
9	80004124	1	STATIC SEAL	
10	80004039	1	CYLINDER HEAD	
11	80004122	9	SOCKET HD CAPSCREW, 1/2-13X3, GR8	
12	80004041	1	INGRESSION RING	
13	80004125	1	WEAR RING	
14	80004126	1	BUFFER SEAL	
15	80004127	1	ROD SEAL	
16	80004129	1	ROD WIPER	
17	80004046	1	ROD EYE	
18	83304146	1	THREADED PLUG	
19	83304145	1	LUBE FITTING, 45 DEGREES, 1/8	
20	80004128	1	WEAR RING	
21	80004130	1	THREADED COLLAR	
	80004131	1	PACKING KIT, (includes items 4, 5, 6, 9, 12, 13, 14, 15, 16 & 20)	
	80514090	1	PISTON ROD ASSY, (includes item 7	



Figure 9-4 Outrigger Cylinder Assembly



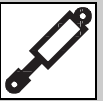
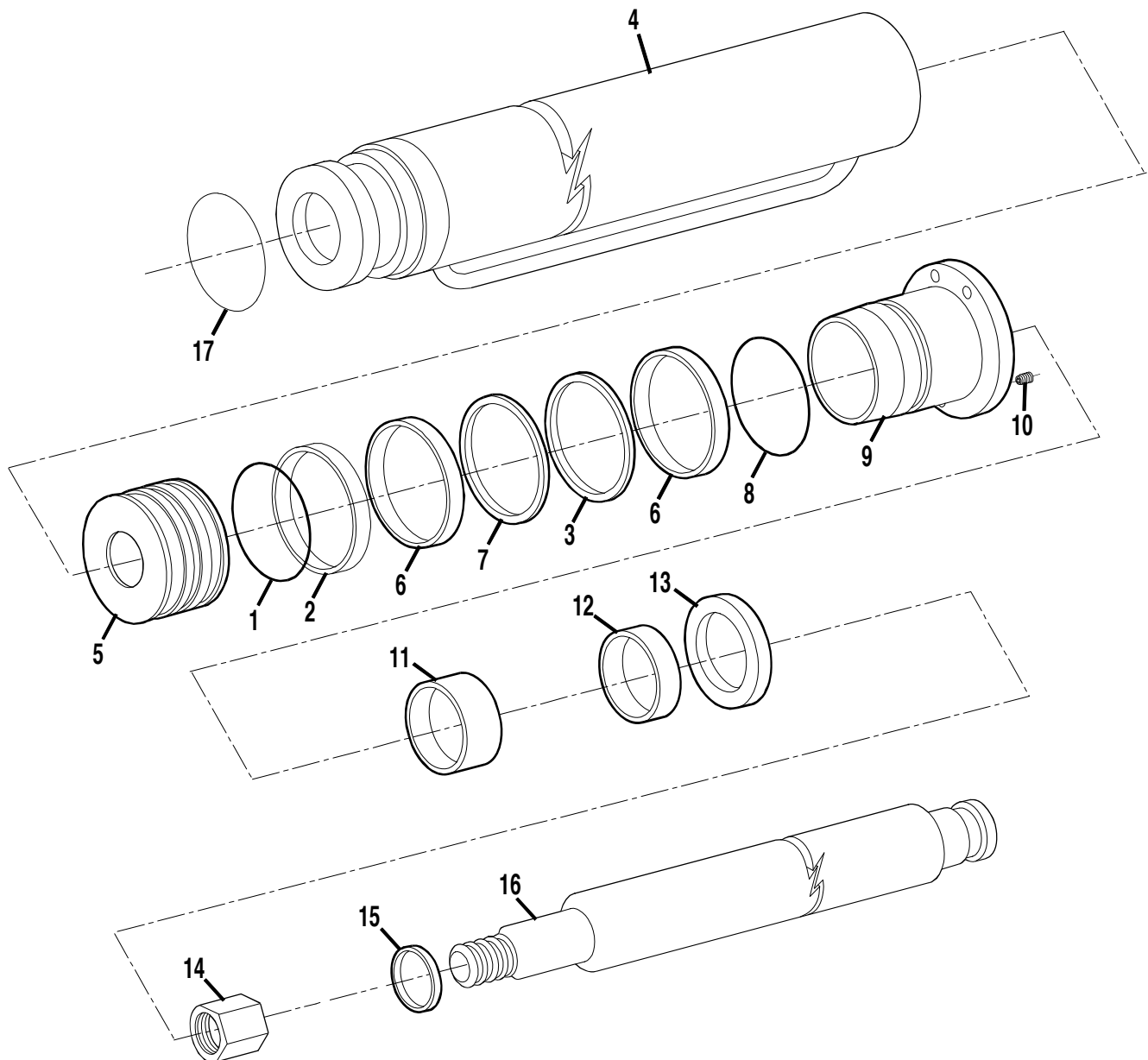


Figure 9-4 Outrigger Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005137	2	OUTRIGGER CYLINDER ASSY, (includes all items)	
1	88201001	2	HEX HD CAPSCREW, 1/4-20X1/2, GR5	
2	88201032	1	HEX HD CAPSCREW, 3/8-16X5/8, GR5	
3	80003739	1	COVER	
4	80006167	1	CYLINDER TUBE WELDMENT	
5	80001685	1	PISTON	
6	80003726	2	BEARING	
7	80003727	1	PISTON SEAL	
8	80003725	1	STATIC SEAL	
9	80001684	1	CYLINDER HEAD, (torque to 400-425 lb-ft)	
10	88221052	1	SOCKET SET SCREW, 1/4-20X1/4	
11	88231005	1	SOCKET HOLLOW LOCK SCREW, 1/4-20	
12	80003610	1	INGESTION RING	
13	80003724	1	BEARING	
14	80003613	1	ROD SEAL	
15	80003723	1	BEARING	
16	80003615	1	ROD WIPER	
17	80003679	1	CYLINDER NUT, (loctite & torque to 650-675 lb-ft)	
18	80003710	2	BACKUP O-RING	
19	80003293	1	O-RING	
20	80001694	1	PISTON ROD	
	80003728	AR	PACKING KIT, (includes items 6, 7, 8, 12 thru 16, 18 & 19)	



Figure 9-4 Outrigger Cylinder Assembly



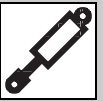
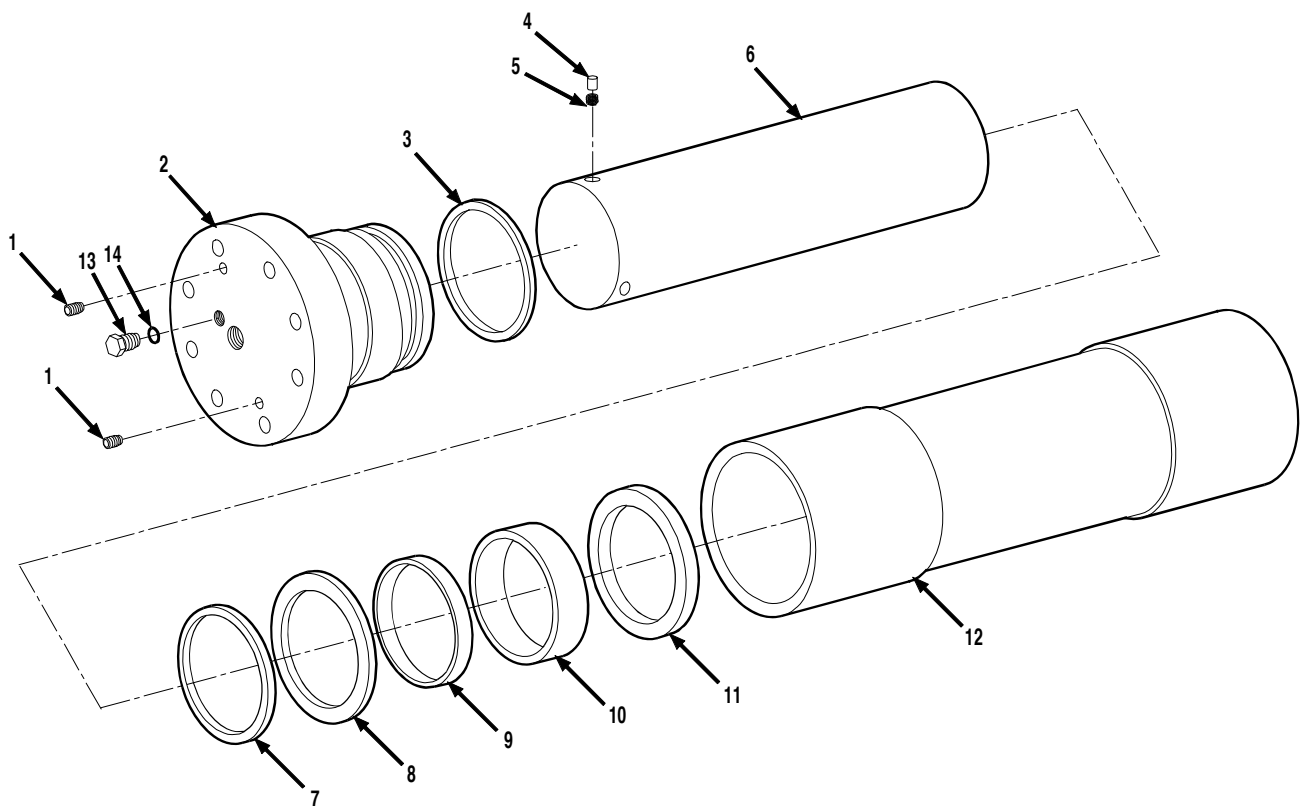


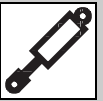
Figure 9-4 Outrigger Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005188	2	OUTRIGGER CYLINDER ASSY, (includes all items)	
1	80004953	2	O-RING	
2	80004054	1	BACKUP RING	
3	80004050	1	SEAL	
4	80004062	1	CYLINDER TUBE WELDMENT	
5	80004048	1	PISTON	
6	80004049	2	WEAR RING	
7	80004051	1	BACKUP RING	
8	80004055	1	O-RING	
9	80004052	1	CYLINDER HEAD, (torque to 400-425 lb-ft)	
10	7003225	1	SOCKET SET SCREW, 1/4-20X1/4	
11	80004056	2	WEAR RING	
12	80004057	1	SEAL	
13	80004058	1	ROD WIPER	
14	7003226	1	CYLINDER NUT, (loctite & torque to 650-675 lb-ft)	
15	80004059	1	O-RING	
16	80004060	1	PISTON ROD	
17	7023500	2	O-RING	
	80004061	AR	PACKING KIT, (includes items 1, 2, 3, 6, 7, 8, 11, 12, 13 & 15)	



Figure 9-5 Oscillation Cylinder Assembly

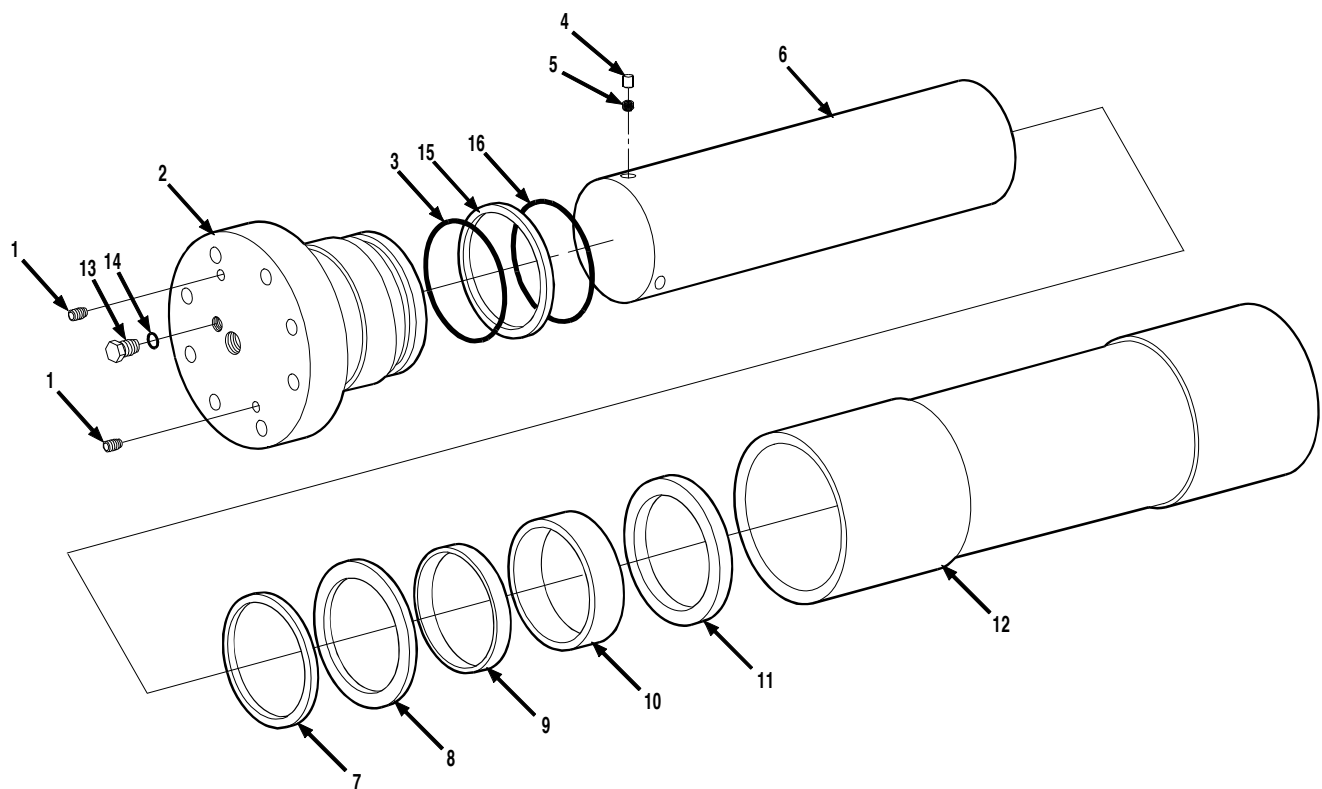


**Figure 9-5 Oscillation Cylinder Assembly**

Item	Part Number	Qty.	Description	Rev.
	80005136	1	OSCILLATION CYLINDER ASSY, (includes all items)	
1	88221383	2	HEX SOCKET SET SCREW, (half dog point), 5/6-18X3/4, (loctite)	
2	80001691	1	THREADED BOTTOM, (torque to 400-425 lb-ft)	
3	80003719	1	STATIC SEAL	
4	80003718	3	PLASTIC ROD STOP	
5	80003721	3	SPRING	
6	80001690	1	ROD	
7	80003706	1	INGESTION RING	
8	80003702	1	ROD BUFFER SEAL	
9	80003703	1	ROD SEAL	
10	80003639	1	BEARING	
11	80003704	1	ROD WIPER	
12	80001689	1	CYLINDER TUBE WELDMENT	
13	88662172	1	HEX HD PLUG, (includes item 14)	
14	8859-1202	1	O-RING	
	80003720	1	PACKING KIT, (includes items 3 & 7 thru 11)	



Figure 9-5 Oscillation Cylinder Assembly



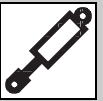


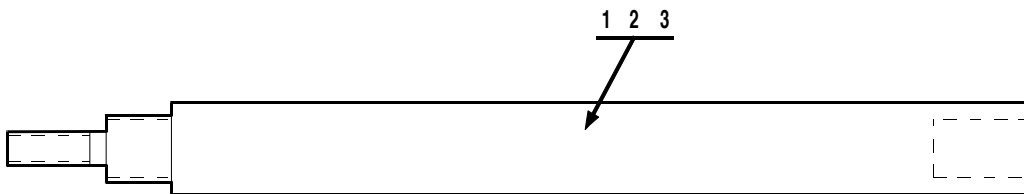
Figure 9-5 Oscillation Cylinder Assembly

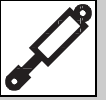
Item	Part Number	Qty.	Description	Rev.
	80005190	1	OSCILLATION CYLINDER ASSY, (includes all items)	
1	80004107	2	HEX SOCKET SET SCREW, (half dog point), 5/6-18X3/4, (loctite)	
2	80004108	1	THREADED BOTTOM, (torque to 400-425 lb-ft)	
3	80004109	1	STATIC SEAL	
4	80004074	3	PLASTIC ROD STOP	
5	80004075	3	COMPRESSION SPRING	
6	80004110	1	ROD	
7	80004112	1	INGRESSION RING	
8	80004113	1	ROD BUFFER SEAL	
9	80004114	1	ROD SEAL	
10	80004115	1	WEAR RING	
11	80004116	1	ROD WIPER	
12	80004111	1	CYLINDER TUBE WELDMENT	
13	7019803	1	HEX HD PLUG, (includes item 14)	
14		1	O-RING	
15	80004117	1	BACKUP RING	
16	80004118	1	O-RING	
	80004119	1	PACKING KIT, (includes items 2,)	



HYDRAULIC COMPONENTS

Figure 9-6 Swing Lock Cylinder

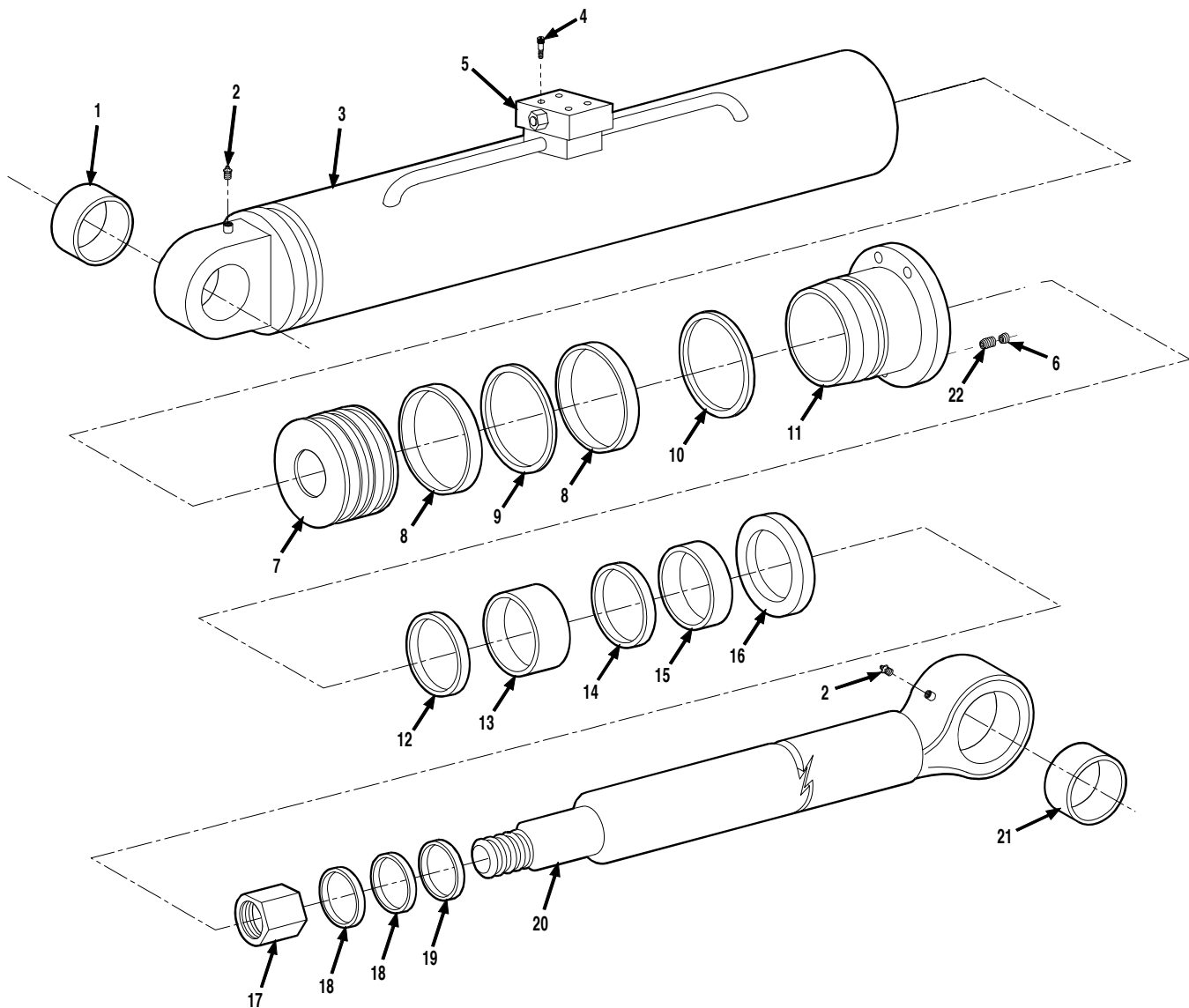


**Figure 9-6 Swing Lock Cylinder**

Item	Part Number	Qty.	Description	Rev.
	80373101	1	SWING LOCK CYLINDER, (includes all items)	
1	80374077	1	PISTON SEAL	
2	80374078	1	POLYPAC ROD SEAL	
3	80374079	1	PISTON ROD ASSY	



Figure 9-7 Blade Cylinder Assembly



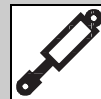
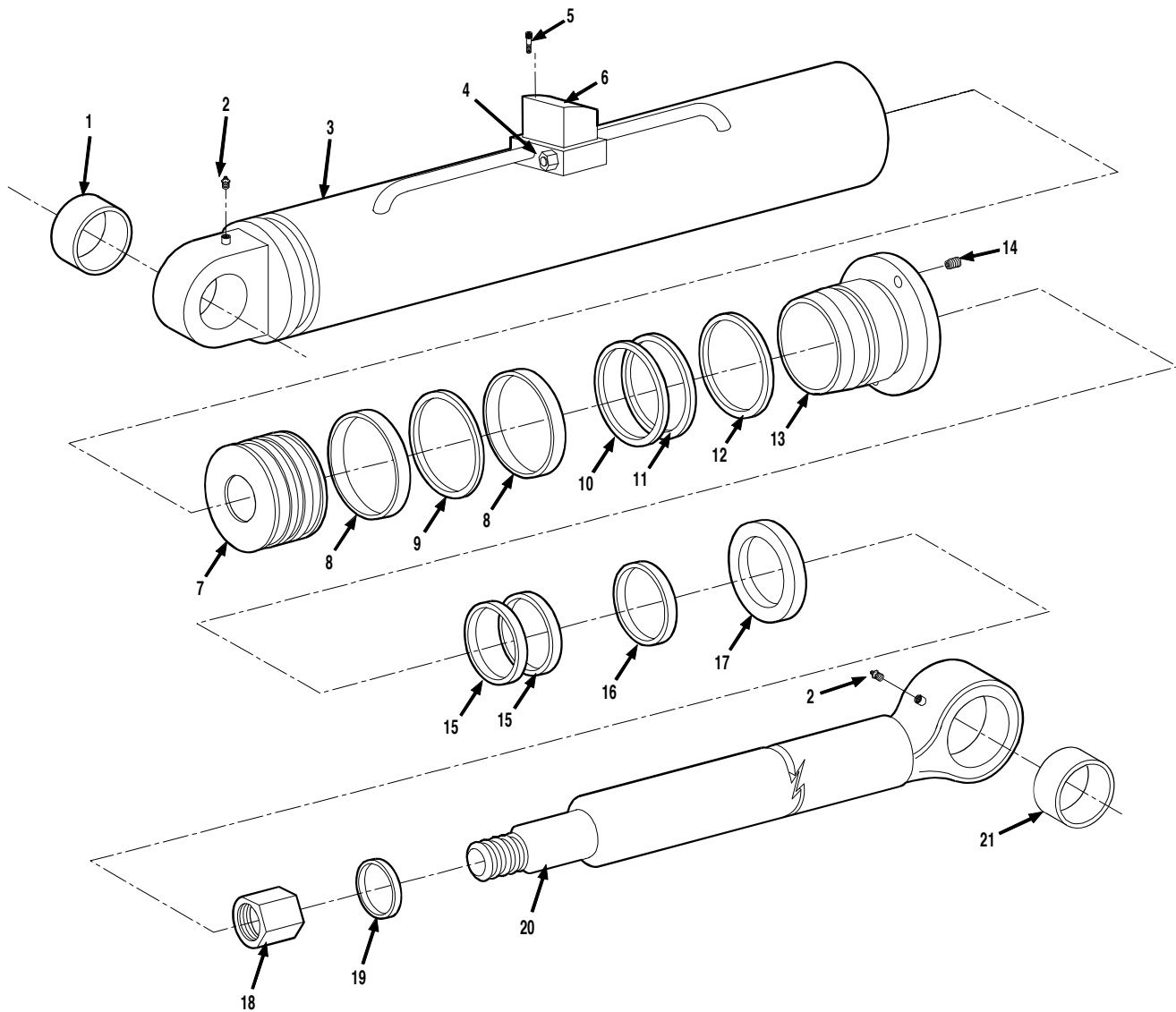


Figure 9-7 Blade Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005138	2	BLADE CYLINDER ASSY, (includes all items except 5)	
1	80423042	1	BUSHING	
2	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
3	80006080	1	CYLINDER TUBE WELDMENT	
4	88201001	2	HEX HD CAPSCREW, 1/4-20X1/2, GR5, (loctite & torque to 9-12 lb-ft)	
5		Ref	BLADE VALVE BLOCK ASSY, (see Figure 9-41 for details)	
6	88231005	1	SOCKET HOLLOW LOCK SCREW, 1/4-20	
7	80001703	1	PISTON	
8	80003736	2	BEARING	
9	80003735	1	PISTON SEAL	
10	80003737	1	STATIC SEAL	
11	80001702	1	CYLINDER HEAD	
12	80003610	1	INGESTION RING	
13	80003724	1	BEARING	
14	80003613	1	ROD SEAL	
15	80003723	1	BEARING	
16	80003615	1	ROD WIPER	
17	80003679	1	CYLINDER NUT	
18	80003710	2	BACKUP O-RING	
19	80003293	1	O-RING	
20	80006081	1	ROD WELDMENT	
21	80003732	4	BUSHING	
22	88221052	1	SOCKET SET SCREW, (cup point), 1/4-20X1/4	
	80003738	AR	PACKING KIT, (includes items 8, 9, 10, 12, 13, 14, 15, 16, 18 & 19)	



Figure 9-7 Blade Cylinder Assembly



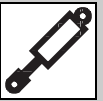


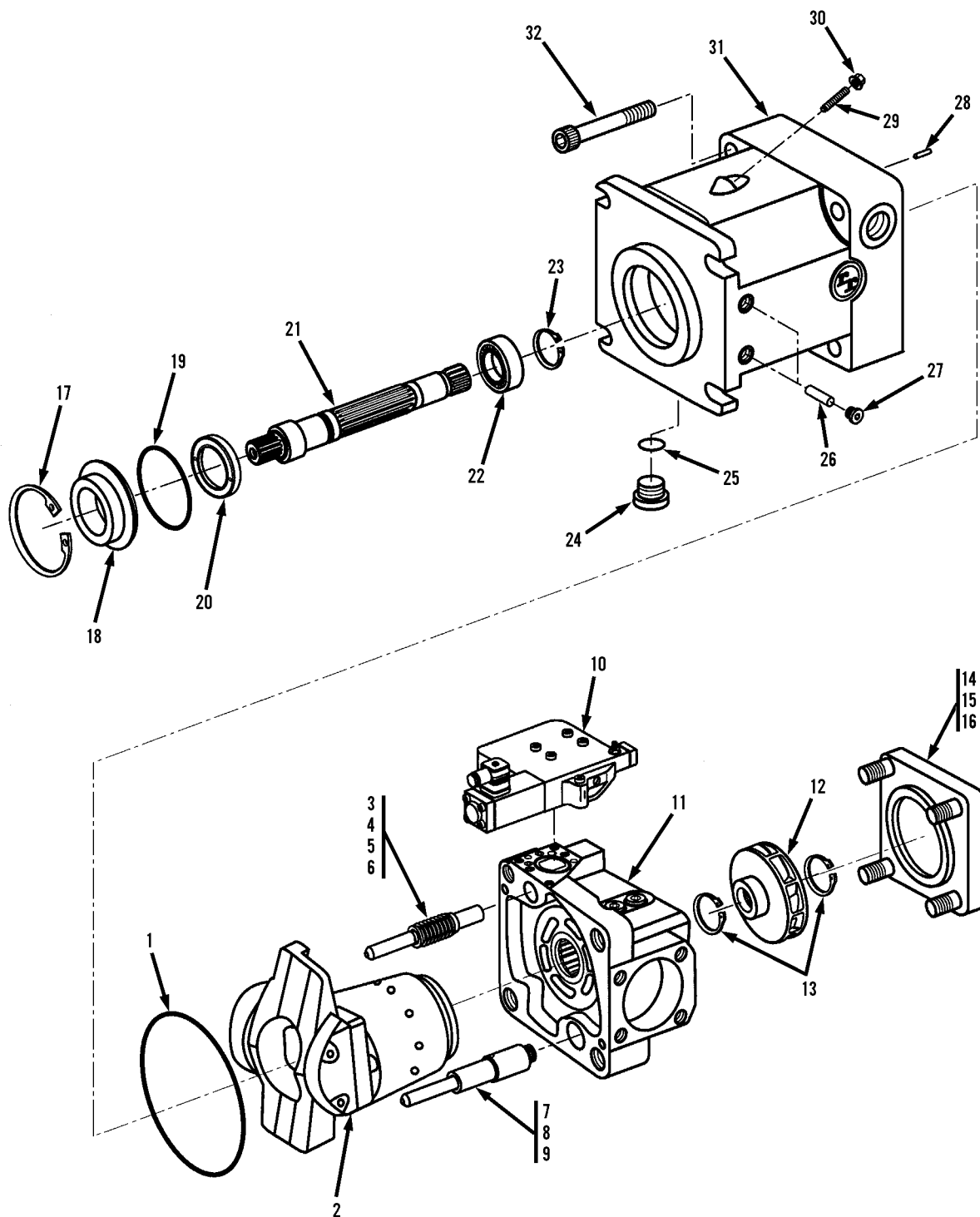
Figure 9-7 Blade Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005189	2	BLADE CYLINDER ASSY, (includes all items)	
1	80001190	1	BUSHING	
2	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
3	80004090	1	TUBE ASSY	
4	80004091	2	CARTRIDGE VALVE	
5	80004092	4	CAPSCREW, #10-24X2, (loctite)	
6	80004093	1	BEARING BLOCK	
7	80004094	1	PISTON	
8		2	WEAR RING	
9		1	SEAL	
10		1	O-RING	
11		1	BACK-UP RING	
12		1	O-RING	
13	80004095	1	PISTON HEAD	
14	80004096	1	SETSCREW	
15		2	WEAR RING	
16		1	SEAL	
17		1	WIPER/MTL	
18	80004097	1	LOCKNUT	
19		1	O-RING	
20	80004098	1	ROD ASSY	
21	80003732	1	BUSHING	
	80004099	1	SEAL KIT, (includes items 8 thru 12, 15 thru 17 & 19)	



HYDRAULIC COMPONENTS

Figure 9-8 Main Pump - Front



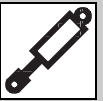


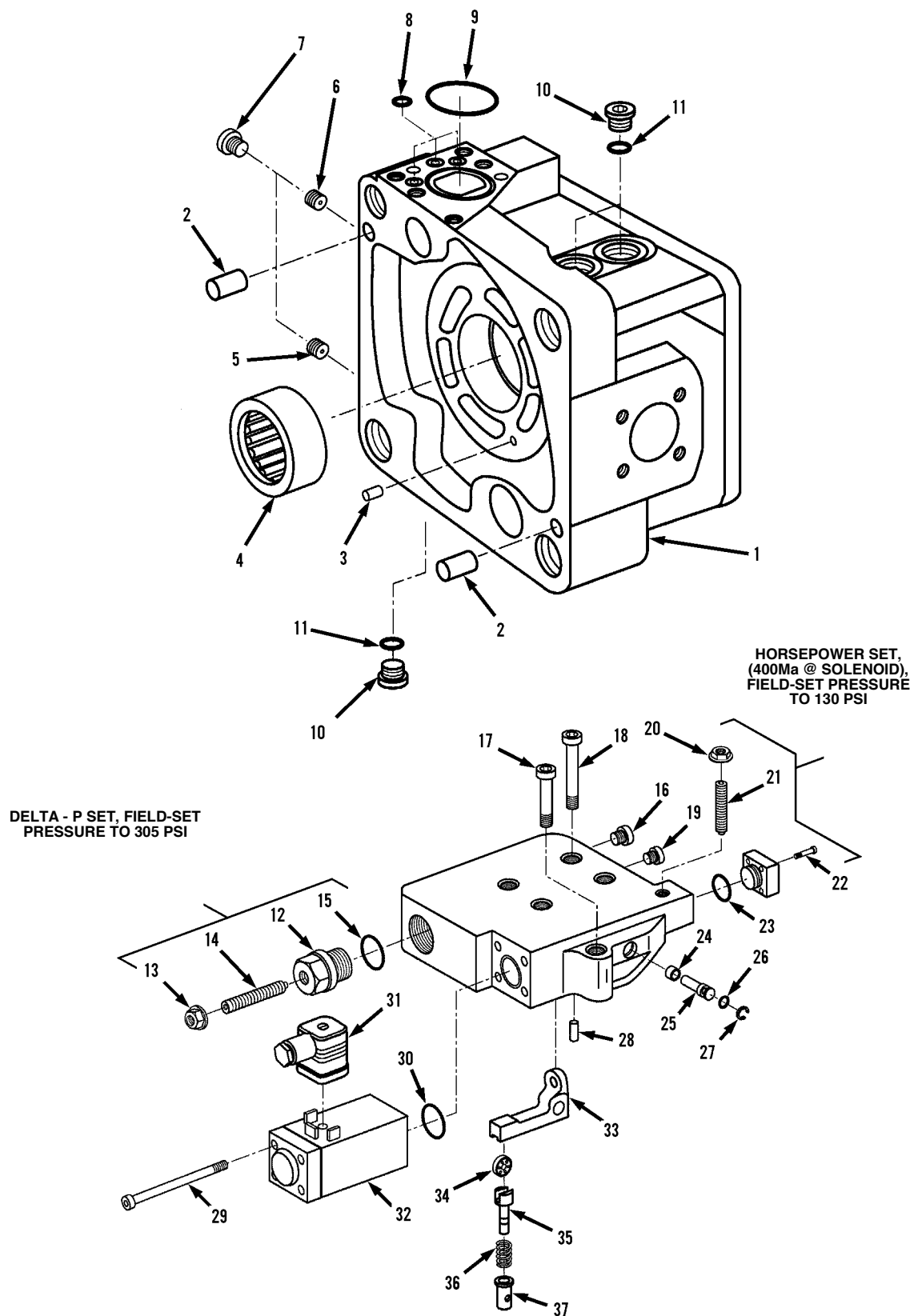
Figure 9-8 Main Pump - Front

Item	Part Number	Qty.	Description	Rev.
	80333097	1	MAIN PUMP, (includes all items)	
1		1	O-RING	
2	80334039	1	ROTARY GROUP	
3	80334040	1	ROD, (129.6mm)	
	80334041	1	ROD, (129.4mm)	
	80334042	1	ROD, (129.8mm)	
	80334043	1	ROD, (130.0mm)	
4	80334044	1	STROKING PISTON	
5	80334045	1	SPRING	
6	80334046	1	BUSHING	
7	80334047	1	ROD, (119.3mm)	
	80334048	1	ROD, (119.1mm)	
	80334049	1	ROD, (110.5mm)	
8	80334040	1	DESTROKING PISTON	
9	80334051	1	SPRING	
10		Ref	CONTROL ASSY, (see Figure 9-9 for details)	
11		Ref	PORT BLOCK ASSY, (see Figure 9-9 for details)	
12	80334052	1	IMPELLER	
13	80334053	2	RETAINING RING	
14	80334054	1	REAR COVER	
15	80334055	1	O-RING	
16	80334056	4	HEX HD CAPSCREW	
17	80334057	1	RETAINING RING	
18	80334058	1	FRONT COVER	
19		1	O-RING	
20		1	SHAFT SEAL	
21	80334059	1	SHAFT	
22	80334060	1	FRONT BEARING	
23	80334061	1	RETAINING RING	
24	80334062	1	PLUG, (includes item 25)	
25	80334063	1	O-RING	
26	80334064	4	JOINT PIN	
27		4	PLUG	
28	80334065	2	ROLL PIN	
29	80334066	2	DISPLACEMENT STOP SCREW	
30		2	SEAL NUT	
31	80334067	1	HOUSING	
32	80334068	4	CAPSCREW	
	80334038	1	SEAL KIT, (includes items 1, 19, 20, 25, 27, 30 & designated items on Figure 9-9)	



HYDRAULIC COMPONENTS

Figure 9-9 Main Pump - Rear



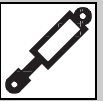


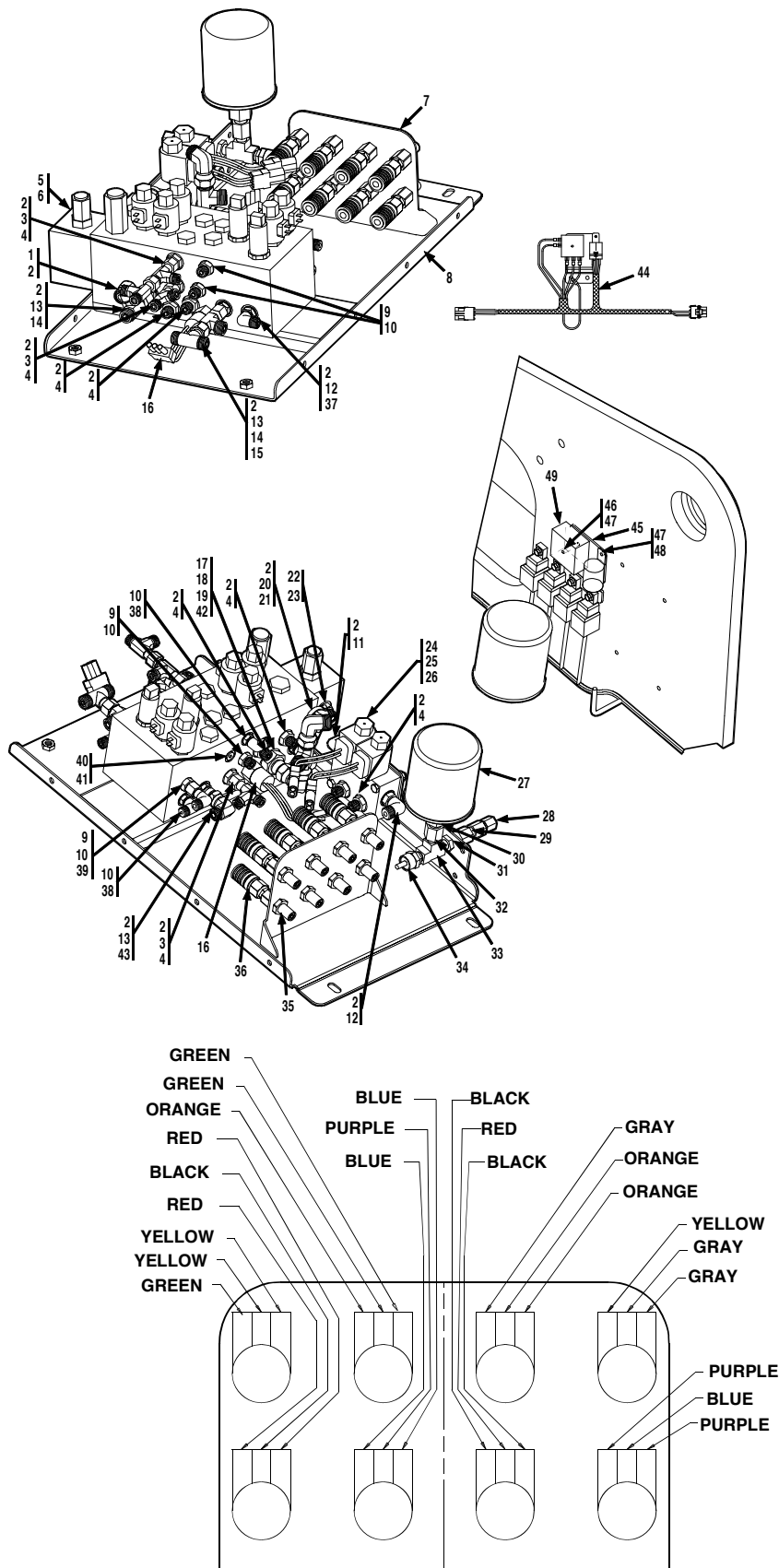
Figure 9-9 Main Pump - Rear

Item	Part Number	Qty.	Description	Rev.
	80334069	1	PORT BLOCK ASSY, (includes items 1 thru 11)	
	80334070	1	CONTROL ASSY, (includes items 12 thru 37)	
1	80334074	1	HOUSING	
2	80334075	2	DOWEL PIN	
3	80334076	1	DOWEL PIN	
4	80334077	1	ROLLER BEARING	
5	80334078	1	ORIFICE, (1.4mm)	
6	80934416	1	ORIFICE, (1.2mm)	
7		2	PLUG	
8		3	QUAD RING	
9		1	O-RING	
10	80334079	3	PLUG, (includes item 11)	
11	80334080	3	O-RING	
12		1	CONTROL ELEMENT	
13		1	SEAL NUT	
14		1	ADJUSTING SCREW	
15		1	O-RING	
16		1	PLUG	
17	80334081	1	CAPSCREW	
18	80334082	4	CAPSCREW	
19		1	PLUG	
20		1	SEAL NUT	
21	80334083	1	ADJUSTING SCREW	
22		4	CAPSCREW	
23		1	O-RING	
24	80334084	1	BUSHING	
25	80334085	1	BEARING BOLT	
26		1	O-RING	
27	80334086	1	RETAINING RING	
28	80334087	1	PIN	
29		4	CAPSCREW	
30		1	O-RING	
31		1	PLUG CONNECTOR	
32	80334599	1	SOLENOID	
33	80334088	1	ANGLE LEVER	
34		1	ROLLER	
35		1	PISTON	
36		1	SPRING	
37		1	BUSHING	
	80334038	1	SEAL KIT, (kit includes items 7, 8, 9, 11 & designated items on Figure 9-8)	
	80334071	1	CONTROL ELEMENT KIT, (includes items 12 thru 16)	
	80334072	1	CONTROL & SOLENOID KIT, (includes items 22, 23 & 29 thru 32)	
	80334073	1	ANGLE LEVER KIT, (includes items 34 thru 37)	



HYDRAULIC COMPONENTS

Figure 9-10 Pilot Manifold Valve Tray Hydraulic Components



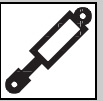


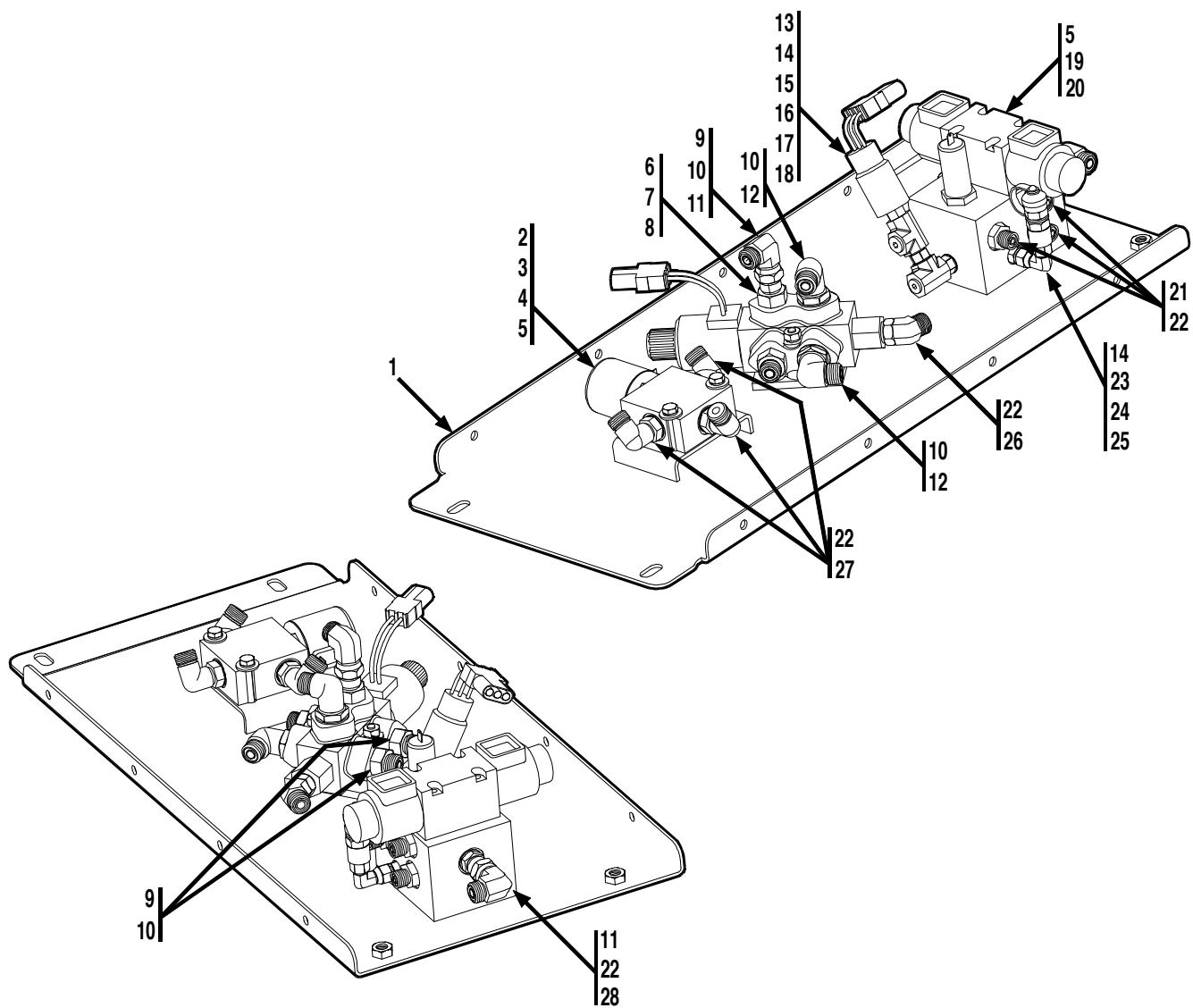
Figure 9-10 Pilot Manifold Valve Tray Hydraulic Components

Item	Part Number	Qty.	Description	Rev.
1	88662440	1	CONNECTOR, (includes item 2)	
2	88591204	18	O-RING	
3	80233259	4	SWIVEL NUT RUN TEE	
4	88662471	7	CONNECTOR, (includes item 2), (aux. qty. 2)	
5		Ref	PILOT MANIFOLD ASSY, (see Figure 9-12 for details)	
6	77143003	3	WHIZ-LOK SCREW, 5/16-18X5/8	
7	80363088	1	QUICK-DISCONNECT DECAL, (see lower illustration)	
8	80336004	1	VALVE TRAY WELDMENT	
9	88662300	5	CONNECTOR, (includes item 10)	
10	88591202	6	O-RING	
11	88662489	1	ELBOW, 90 DEGREES, (includes item 2), (aux. only)	
12	88662329	2	ELBOW, 90 DEGREES, (includes item 2), (aux. only)	
13	88662301	3	CONNECTOR, (includes item 2)	
14	88662446	2	SWIVEL NUT RUN TEE	
15	88662354	1	SWIVEL NUT BRANCH TEE	
16	80333100	1	PRESSURE SWITCH	
17	88662312	1	CONNECTOR, (includes item 18)	
18	88591207	1	O-RING	
19	88662372	1	ELBOW, 90 DEGREES, (swivel nut)	
20	91143172	1	TEST COUPLING	
21	88662064	1	ELBOW, 90 DEGREES, (includes item 2)	
22	88662310	1	CONNECTOR, (includes item 23)	
23	88591205	1	O-RING	
24		Ref	DUAL SOLENOID VALVE ASSY, (see Figure 9-35 for details), (aux. only)	
25	77143013	2	WHIZ-LOK NUT, 1/4-20, (aux. only)	
26	88201009	2	HEX HD CAPSCREW, 1/4-20X2, GR5, (aux. only)	
27	80933068	1	BREATHER ASSY	
28	86883054	1	CONNECTOR	
29	83663083	1	CONVERSION ADAPTER	
30	88711573	1	REDUCING BUSHING, 1/2X3/8	
31	91123061	1	BULKHEAD ADAPTER	
32	88711572	1	REDUCING BUSHING, 3/8X1/4	
33	86983646	1	BRASS TEE, 1/4	
34	80973044	1	DRAIN VALVE	
35	80333051	8	BULKHEAD NIPPLE	
36	80333050	8	BULKHEAD COUPLER	
37	88662192	1	HEX PLUG, (includes item 2), (std. only)	
38	88662328	2	ELBOW, 90 DEGREES, (includes item 10)	
39	88662370	1	ELBOW, 90 DEGREES, (swivel nut)	
40	88662189	1	HEX PLUG, (includes item 41)	
41	88591201	1	O-RING	
42	88662438	1	SWIVEL NUT RUN TEE	
43	88662371	1	ELBOW, 90 DEGREES, (swivel nut)	
44	80363201	1	DIG BRAKE HARNESS, (S/N 0334335 & After)	
45	80301204	1	RELAY BRACKET, (S/N 0334335 & After)	
46	88301077	1	ROUND HD MACH SCREW, #8-32X1-1/4, (S/N 0334335 & After)	
47	88501610	2	HEX NUT, #8-32, (S/N 0334335 & After)	
48	88301068	1	ROUND HD MACH SCREW, #8-32X3/8, (S/N 0334335 & After)	
49	80363194	1	TIME DELAY RELAY, (S/N 0334335 & After)	



HYDRAULIC COMPONENTS

Figure 9-11 Pilot Propel Valve Tray Hydraulic Components



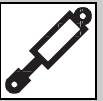


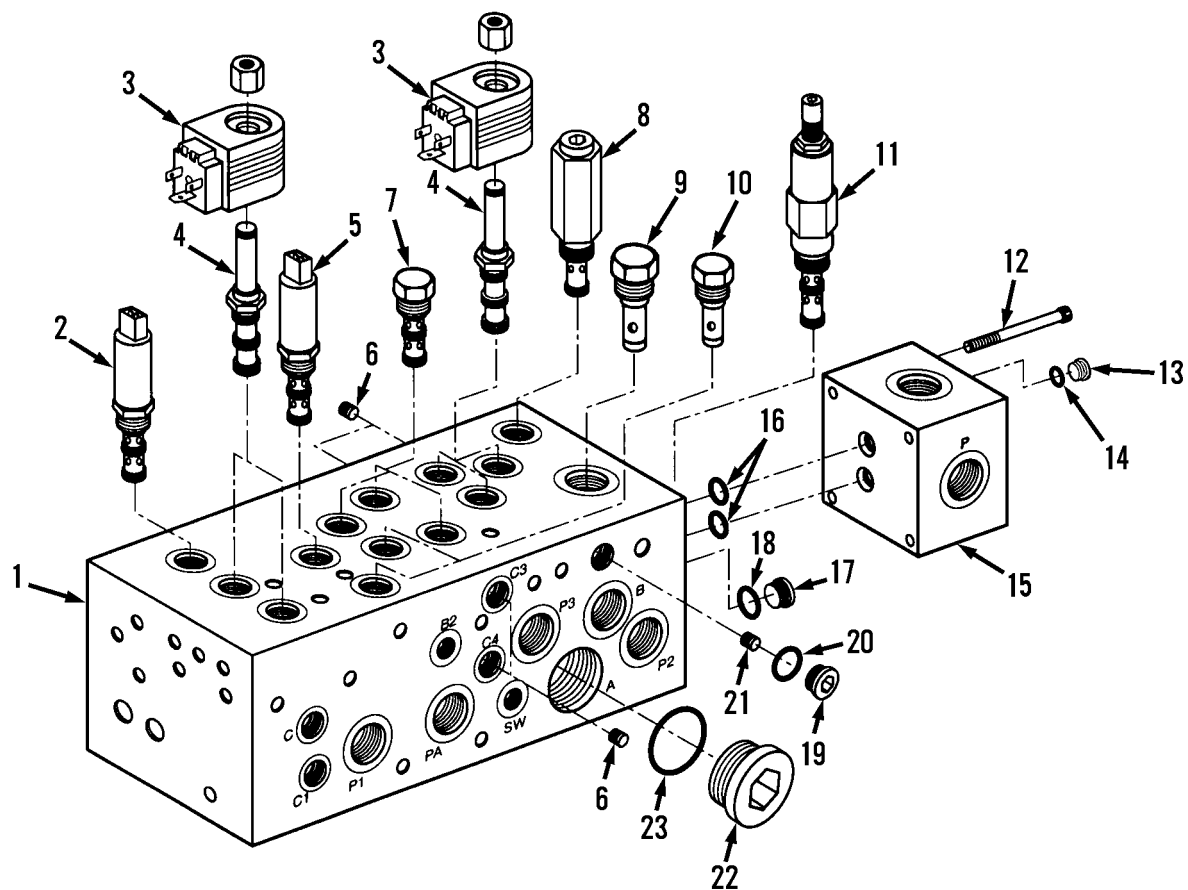
Figure 9-11 Pilot Propel Valve Tray Hydraulic Components

Item	Part Number	Qty.	Description	Rev.
1	80336007	1	VALVE MOUNT TRAY	
2		Ref	SOLENOID VALVE ASSY, (see Figure 9-34 for details)	
3	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
4	88561004	2	FLAT WASHER, 1/4	
5	88551009	6	LOCKWASHER, 1/4	
6		Ref	SIX-WAY DIVERter VALVE ASSY, (see Figure 9-33 for details)	
7	88201009	2	HEX HD CAPSCREW, 1/4-20X2, GR5	
8	88501004	2	HEX NUT, 1/4-20	
9	88662310	4	CONNECTOR, (includes item 10)	
10	88591205	6	O-RING	
11	88662371	2	ELBOW, 90 DEGREES, (swivel nut)	
12	88662432	2	ELBOW, 90 DEGRES, (includes item 10)	
13	88662190	1	HEX HD PLUG, (includes item 14)	
14	88591202	2	O-RING	
15	88662189	1	HEX HD PLUG, (includes item 16)	
16	88591201	1	O-RING	
17	80633132	2	SPECIAL TEE	
18	80333100	1	PRESSURE SWITCH	
19	88201004	4	HEX HD CAPSCREW, 1/4-20X7/8, GR5	
20		Ref	PROPEL PILOT VALVE ASSY, (see Figure 9-39 for details)	
21	88662471	3	CONNECTOR, (includes item 22)	
22	88591204	8	O-RING	
23	88662003	1	CONNECTOR, (includes item 14)	
24	88662103	1	ELBOW, 90 DEGREES, (swivel nut)	
25	91143177	1	MINI-CHECK COUPLING, (female)	
26	88662418	1	ELBOW, 45 DEGREES, (includes item 22)	
27	88662329	3	ELBOW, 90 DEGREES, (includes item 22)	
28	88662301	1	CONNECTOR, (includes item 22)	



HYDRAULIC COMPONENTS

Figure 9-12 Pilot Manifold



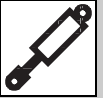
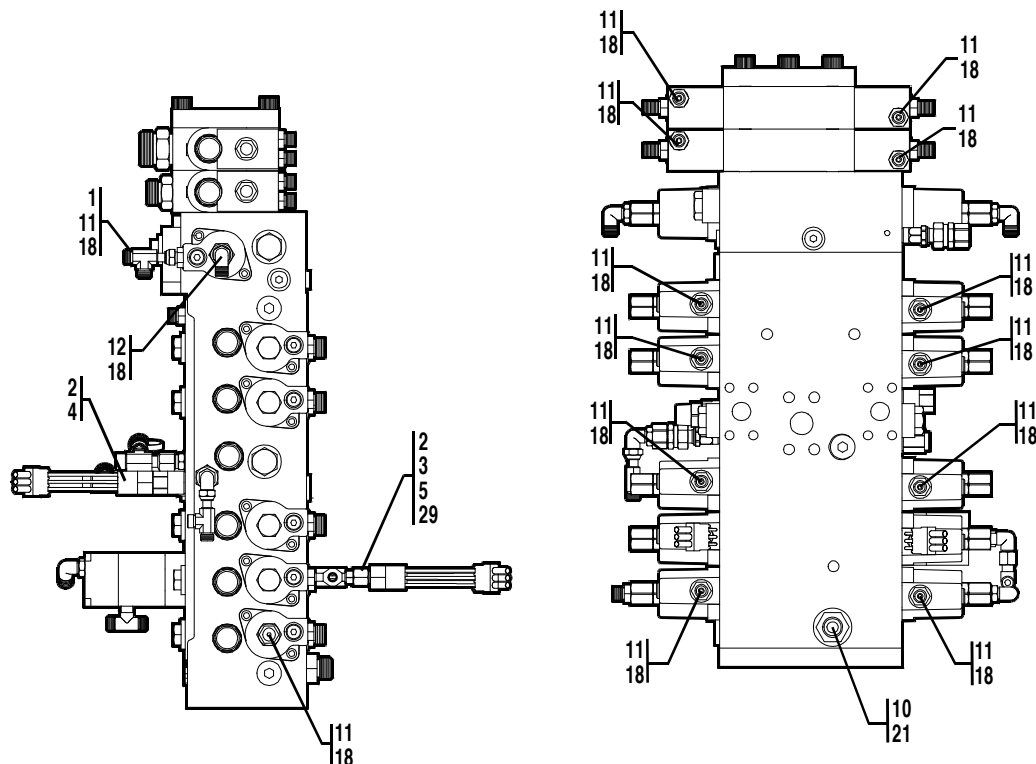
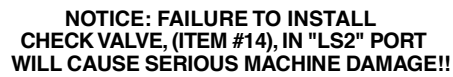


Figure 9-12 Pilot Manifold

Item	Part Number	Qty.	Description	Rev.
	80333117	1	PILOT MANIFOLD, (includes all items)	
1	80334089	1	MANIFOLD BLOCK	
2	80334090	1	PROPORTIONAL SOLENOID CARTRIDGE, (12V)	
3	80334091	5	COIL	
4	80334092	5	SOLENOID VALVE CARTRIDGE	
5	80334093	1	PROPORTIONAL SOLENOID CARTRIDGE, (12V)	
6	80334094	4	ORIFICE	
7	80334095	3	SHUTTLE VALVE CARTRIDGE	
8	80334096	1	PRESSURE RELIEF VALVE CARTRIDGE, (650 psi)	
9	80334097	1	CHECK VALVE CARTRIDGE	
10	80334098	2	CHECK VALVE CARTRIDGE	
11	80334099	1	PRESSURE REDUCING VALVE CARTRIDGE, (500 psi)	
12	80334100	4	CAPSCREW	
13	80334101	1	PLUG	
14	80334102	1	O-RING	
15	80334103	1	PLUG	
16	80334104	2	O-RING	
17	80334079	1	PLUG	
18	80334080	1	O-RING	
19	80334103	1	PLUG	
20	80334104	2	O-RING	
21	80334105	1	ORIFICE	
22	80334062	1	PLUG	
23	80334106	1	O-RING	



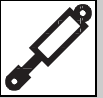


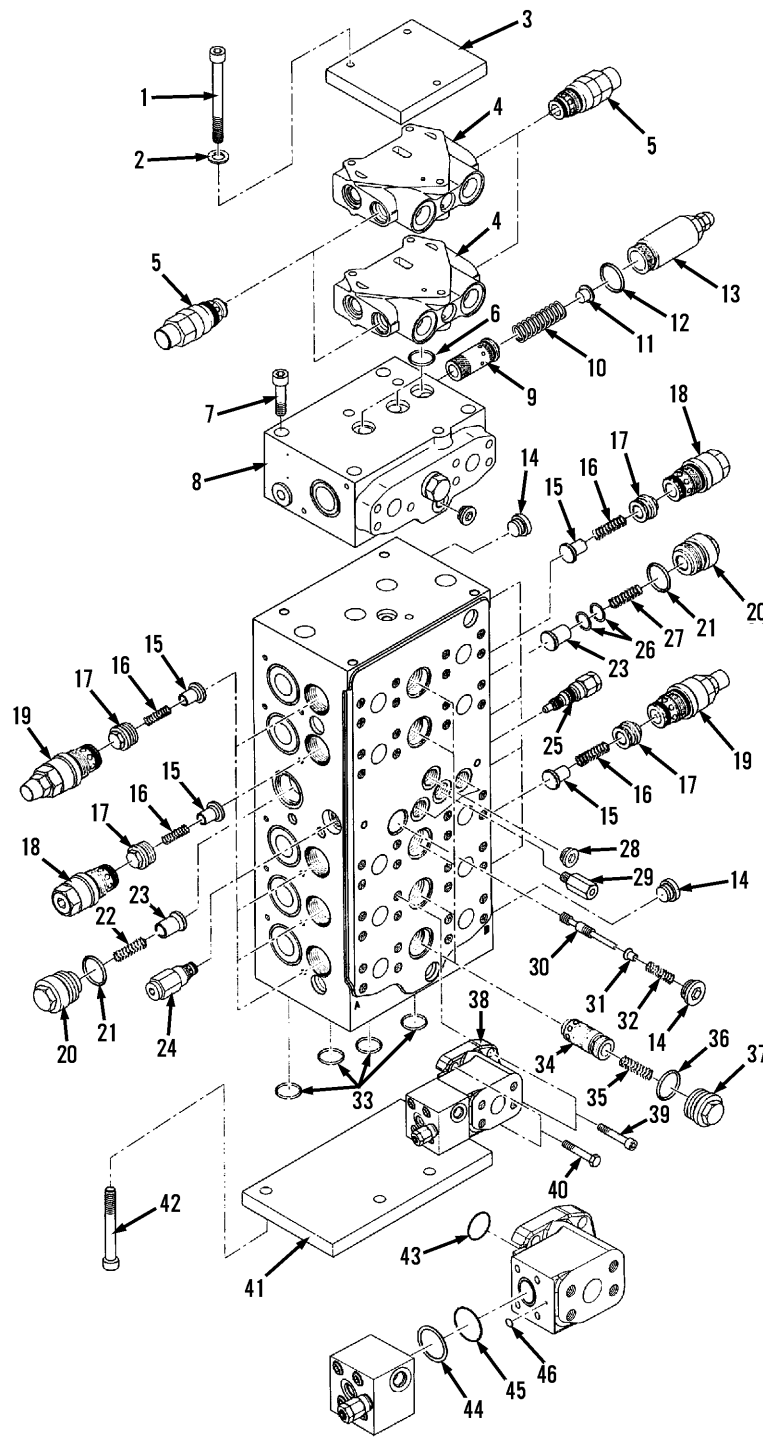
Figure 9-13 Main Hydraulic Control Valve Assembly

Item	Part Number	Qty.	Description	Rev.
		REF	MAIN HYDRAULIC CONTROL VALVE ASSY, (STANDARD), (see Figure 9-14 for details)	
		REF	MAIN HYDRAULIC CONTROL VALVE ASSY, (AUXILIARY), (see Figure 9-14 for details)	
1	80233259	2	SWIVEL NUT RUN TEE	
2	80333052	3	REDUCING BUSHING	
3	80333100	2	PRESSURE SWITCH	
4	80333101	1	PRESSURE SWITCH	
5	80633132	1	TEE	
6	88662336	2	SWIVEL NUT RUN TEE	
7	88662300	2	CONNECTOR, (includes item 17)	
8	88662301	2	CONNECTOR, (includes item 18)	
9	88662309	2	CONNECTOR, (includes item 19), (auxiliary valve only)	
10	88662311	1	CONNECTOR, (includes item 21)	
11	88662471	17	CONNECTOR, (includes item 18)	
12	88662489	5	ELBOW, 90 DEGREES, (includes item 18)	
13	88662353	1	SWIVEEL NUT BRANCH TEE	
14	80333184	1	CHECK VALVE	
15	88662304	2	CONNECTOR, (includes item 19)	
16	88662370	1	ELBOW, 90 DEGREES, (swivel nut)	
17	88591202	2	O-RING	
18	88591204	26	O-RING	
19	88591207	4	O-RING	
20	91143172	2	MINI-CHECK COUPLING	
21	88591206	1	O-RING	



HYDRAULIC COMPONENTS

Figure 9-14 Main Hydraulic Control Valve & w/Auxiliary



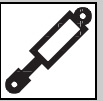


Figure 9-14 Main Hydraulic Control Valve & w/Auxiliary

Item	Part Number	Qty.	Description	Rev.
	80333095	1	MAIN HYDRAULIC CONTROL VALVE, (includes all items on Figures 9-14 thru 9-16)	
	80333096	1	MAIN HYDRAULIC CONTROL VALVE w/AUX, (includes all items on Figures 9-14 thru 9-16)	
1	80334151	3	SOCKET HD CAPSCREW, M12X1.75X130, GR12.9, (lubricate & torque to 41 lb-ft), (auxiliary only)	
	83191057	3	SOCKET HD CAPSCREW, M12X1.75X80, GR12.9, (lubricate & torque to 41 lb-ft), (non auxiliary only)	
2	80334152	3	WASHER	
3	80334150	1	PLATE	
4	80334154	2	HOUSING	
5	80334153	4	RELIEF VALVE ASSY, (lubricate & torque to 66 lb-ft)	
6	80334540	1	O-RING	
7	80334155	4	SOCKET HD CAPSCREW, (lubricate & torque to 52 lb-ft)	
8		Ref	HOUSING, (see Figure 9-16 for details)	
9		1	SPOOL	
10	80334159	1	SPRING	
11	80334158	1	SPRING RETAINER	
12	80334539	1	O-RING	
13	80334156	1	REDUCER, (lubricate & torque to 66 lb-ft)	
14	80334357	4	LOCKING SCREW	
15	80334165	10	CONE	
16	80334164	10	SPRING	
17	80334163	10	LOCKING SCREW	
18	80334162	2	ANTI-CAVITATION VALVE ASSY, (see Figure 9-17 for details), (lubricate & torque to 74 lb-ft)	
19	80334166	9	RELIEF & ANTI-CAVITATION VALVE ASSY, (see Figure 9-17 for details), (lubricate & torque to 74 lb-ft)	
20	80334167	2	LOCKING SCREW, (lubricate & torque to 102 lb-ft)	
21		2	O-RING	
22	80334171	1	COMPRESSION SPRING	
23	80334170	2	CONE	
24	80334174	1	LOAD SENSE BLEED SCREW	
25	80334433	1	LOAD SENSE RELIEF VALVE ASSY, (see Figure 9-17 for details)	
26	80334169	2	WASHER	
27	80334168	2	SPRING	
28	80334359	4	LOCKING SCREW	
29	80334175	1	LOAD SENSE DUAL ORIFICE	
30		1	SPOOL	
31	80334188	1	SPRING RETAINER	
32	80334177	1	SPRING	
33	80334538	4	O-RING	
34		5	SPOOL	
35	80334187	5	SPRING	
36	80334536	5	O-RING	
37	80334186	5	LOCKING SCREW	
38	80334179	1	ANTI-DRIFT VALVE, (loctite & torque to 118 lb-ft)	
39	80334180	2	SOCKET HD CAPSCREW	
40	80334181	2	HEX HD CAPSCREW	
41	80334182	1	PLATE	



HYDRAULIC COMPONENTS

Figure 9-14 Main Hydraulic Control Valve & w/Auxiliary (Continued)

Item	Part Number	Qty.	Description	Rev.
42	80734034	4	SOCKET HD CAPSCREW, (loctite & torque to 52 lb-ft)	
43	80334538	1	O-RING	
44		1	THRUST RING	
45	80334543	1	O-RING	
46	80334546	3	O-RING	
	80334157	1	SEAL KIT, (includes item 6 & designated items on Figure 9-15)	
	80334198	1	SEAL KIT, (includes items 21, 33, 36 & designated items on Figure 9-15 & 9-16)	
	80334199	1	SEAL KIT, (includes item 12 & designated items on Figure 9-16)	
	80334435	1	SEAL KIT, (includes items 6 & 43 thru 45)	



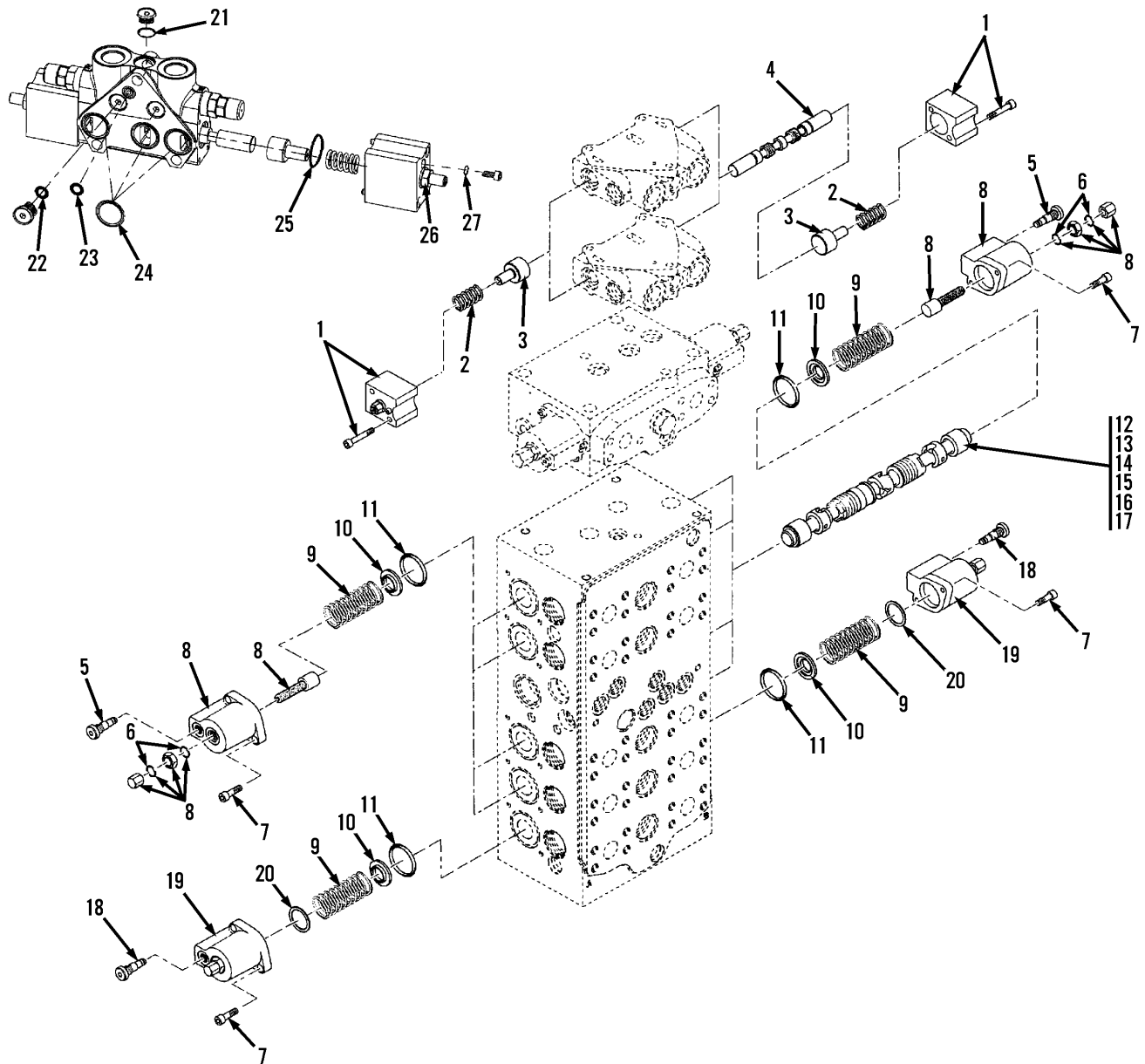
Figure 9-14 Main Hydraulic Control Valve & w/Auxiliary (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-15 Main Hydraulic Control Valve - Spools & End Caps



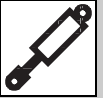


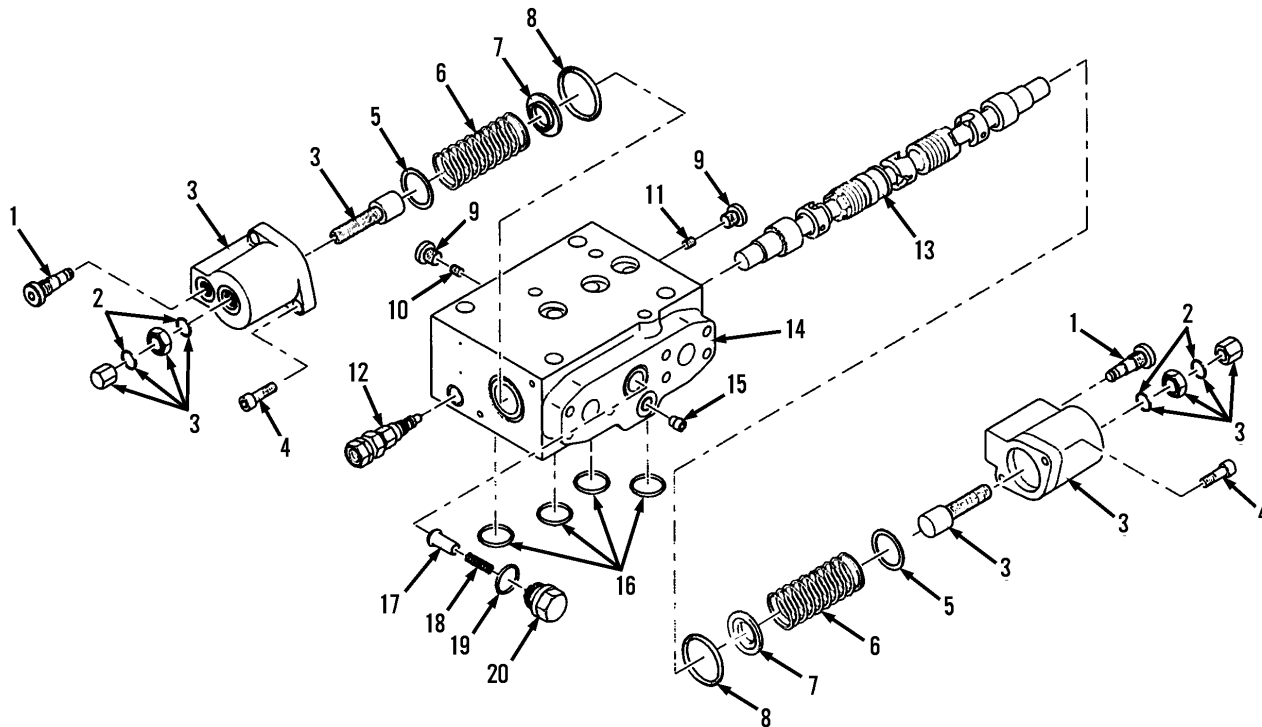
Figure 9-15 Main Hydraulic Control Valve - Spools & End Caps

Item	Part Number	Qty.	Description	Rev.
1	80334191	4	COVER ASSY	
2	80334192	4	COMPRESSION SPRING	
3	80334193	4	SPRING RETAINER	
4		2	SPOOL	
5	80334365	8	THROTTLE VALVE	
6		20	THRUST RING	
7	80334196	20	SOCKET HD CAPSCREW	
8	80334195	10	COVER ASSY	
9	80334197	10	COMPRESSION SPRING	
10	80334366	10	SPRING RETAINER	
11	80334545	10	O-RING	
12		1	SWING SPOOL	
13		1	TILT SPOOL	
14		1	PROPEL SPOOL	
15		1	TOOL SPOOL	
16		1	HOIST SPOOL	
17		1	BOOM SPOOL	
18	80334203	2	THROTTLE VALVE	
19	80334202	2	COVER	
20	80334201	2	SPACER	
21		1	O-RING	
22		2	O-RING	
23		1	O-RING	
24	80334522	3	O-RING	
25		2	O-RING	
26		2	HEX NUT	
27		2	SEALING RING	
	80334157	1	SEAL KIT, (includes items 21 thru 27 & designated items on Figure 9-14)	
	80334198	1	SEAL KIT, (includes item 11 & designated items on Figures 9-14 & 9-16)	



HYDRAULIC COMPONENTS

Figure 9-16 Main Hydraulic Control Valve - Swing Section



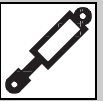


Figure 9-16 Main Hydraulic Control Valve - Swing Section

Item	Part Number	Qty.	Description	Rev.
1	80334203	2	THROTTLE VALVE	
2		4	THRUST RING	
3	80334202	2	COVER ASSY	
4	80334434	4	SOCKET HD CAPSCREW	
5	80334201	2	SPACER	
6	80334197	2	COMPRESSION SPRING	
7	80334366	2	SPRING RETAINER	
8	80334545	2	O-RING	
9		2	LOCKING SCREW	
10	80334209	1	JET	
11	80334210	1	JET	
12	80334367	1	RELIEF & ANTI-CAVITATION VALVE ASSY, (see Figure 9-17 for details), (lubricate & torque to 74 lb-ft)	
13		1	SWING SPOOL	
14	80334431	1	HOUSING	
15	80334212	1	CHECK VALVE	
16	80334538	4	O-RING	
17	80334213	1	CONE	
18	80334214	1	COMPRESSION SPRING	
19		1	O-RING	
20	80334215	1	LOCKING SCREW	
	80334198	1	SEAL KIT, (includes item 7 & designated items on Figures 9-14 & 9-15)	
	80334199	1	SEAL KIT, (includes items 8, 9, 16, 19 & designated items on Figure 9-14)	



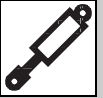


Figure 9-17 Main Hydraulic Control Valve - Seal Kits

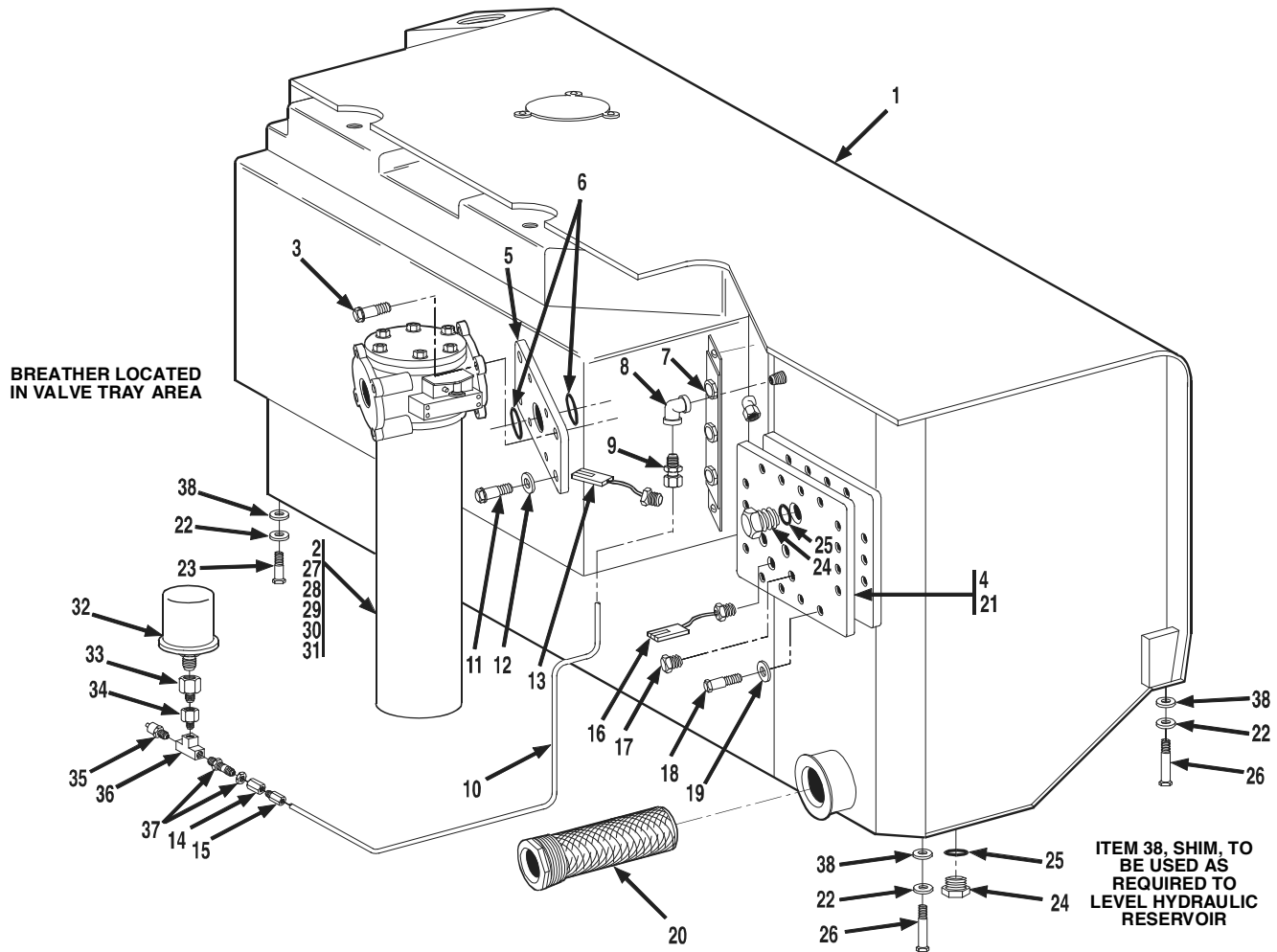
Item	Part Number	Qty.	Description	Rev.
1	80334369	1	LOAD SENSE BLEED SCREW SEAL KIT, (includes items 2, 3 & 4)	
2	80334528	1	LOAD SENSE RELIEF VALVE, (see Figure 9-14, item 24)	
3		1	O-RING	
4		1	THRUST RING	
		1	O-RING	
101	80334217	1	LOAD SENSE RELIEF VALVE SEAL KIT, (includes items 102 thru 109)	
102	80334548	Ref	LOAD SENSE RELIEF VALVE, (see Figure 9-14, item 24)	
103		1	O-RING	
104		1	THRUST RING	
105	80334549	1	O-RING	
106		1	THRUST RING	
107	80334541	1	O-RING	
108		1	THRUST RING	
109	80334523	1	O-RING	
110		2	THRUST RING	
	80334547	1	O-RING	
201	80334370	1	TWO-STAGE PORT RELIEF SEAL KIT, (includes items 202 thru 210)	
202		Ref	TWO-STAGE PORT RELIEF, (see Figure 9-14, item 18)	
203		1	SEAL LOCK NUT	
204	80334542	1	O-RING	
205		1	THRUST RING	
206	80334525	1	O-RING	
207	80334532	1	O-RING	
208		1	THRUST RING	
209	80334537	1	O-RING	
210		1	SPOOL SEAL	
	80334533	1	O-RING	
301	80334218	1	RELIEF VALVE SEAL KIT, (includes items 302 thru 306)	
302		Ref	RELIEF VALVE, (see Figure 9-14, item 5)	
303	80334526	1	O-RING	
304		1	THRUST RING	
305	80334535	1	O-RING	
306		1	O-RING	
401	80334219	1	RELIEF VALVE ANTI-CAVITATION SEAL KIT, (includes items 402 thru 407)	
402		Ref	RELIEF VALVE ANTI-CAVITATION, (see Figure 9-14, item 19)	
403		1	SPOOL SEAL	
404	80334533	1	O-RING	
405	80334529	1	O-RING	
406		2	THRUST RING	
407	80334532	1	O-RING	
	80334537	1	O-RING	



HYDRAULIC COMPONENTS

Before S/N 0334335

Figure 9-18 Hydraulic Reservoir Assembly

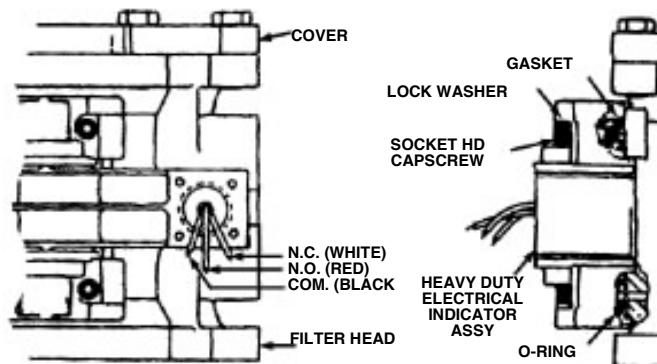


REPLACEMENT MOUNTING KIT: 80373118, CONSISTS OF: (1) GASKET, (8) STATIC SEAL A, & (6) STATIC SEAL B.

LUBRICATE & INSTALL O-RING INTO RECESS ON INDICATOR ASSY. USE VASELINE OR EQUIVALENT LUBRICANT FOR SEALS.

CAUTION
DO NOT OVER TORQUE SCREWS (18-24 IN-LB)

COVER OF HYDRAULIC IN-LINE FILTER



PAD9070
PAD9080

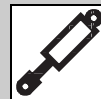


Figure 9-18 Hydraulic Reservoir Assembly

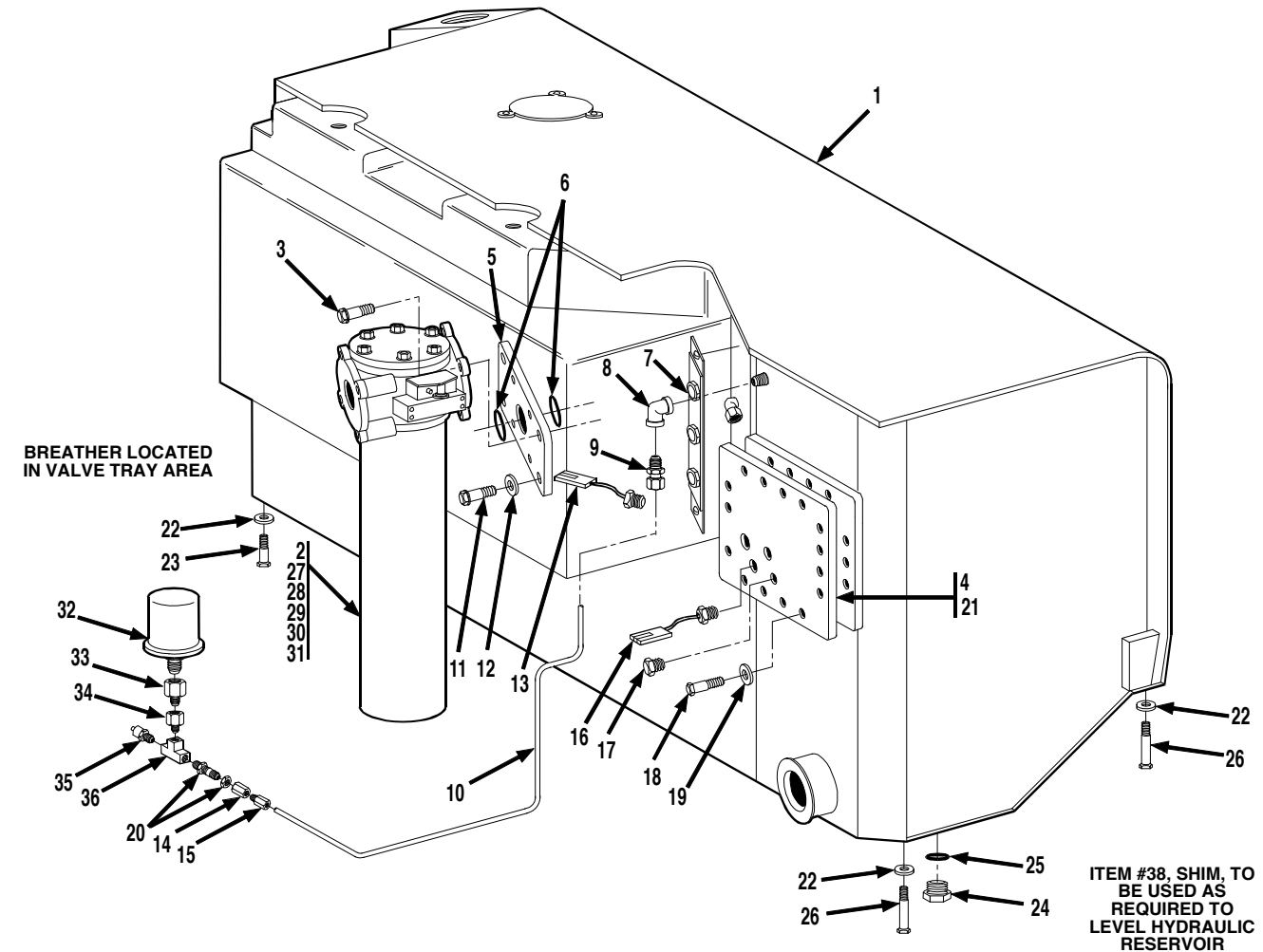
Item	Part Number	Qty.	Description	Rev.
	80375004	1	RESERVOIR ASSY, (includes all items except 10, 32 thru 39 & designated items in Figure 4-6)	
1	80376001	1	RESERVOIR WELDMENT	
2	80373033	1	IN-LINE FILTER ASSY, (includes items 27 thru 31)	
3	88211105	4	SOCKET HD CAPSCREW, 1/2-13X1, GR8, (loctite & torque to 32-38 lb-ft)	
4	80371051	1	FRONT COVER PLATE, (install w/gasket compound)	
5	80371009	1	FILTER MOUNT PLATE	
6	77363038	2	O-RING	
7	80373052	1	FLUID LEVEL GAUGE	
8	88712052	1	ELBOW, 90 DEGREES, 1/4	
9	86883047	1	TUBE FITTING, STRAIGHT, 1/4X3/8 TUBE	
10		AR	NYLON TUBE, 3/8	
11	88201067	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
12	88551013	4	LOCKWASHER, 1/2	
13	80933061	1	HYDRAULIC LEVEL PROBE	
14	83663083	1	CONVERSION ADAPTER	
15	86883054	1	TUBE FITTING, 1/4X3/8 TUBE	
16	80963220	1	HYDRAULIC TEMPERATURE SENDER	
17	88711282	1	HEX SOCKET PIPE PLUG, 3/8	
18	88201036	16	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
19	88551011	16	LOCKWASHER, 3/8	
20	80333021	1	SUCTION FILTER	
21	14404857	AR	GASKET COMPOUND	
22	90027472	6	HARDENED WASHER, 5/8	
23	88201096	1	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5, (lubricate & torque to 140-155 lb-ft)	
24	88662180	2	HEX HD PLUG, (includes item 25), (lubricate & torque to 150-170 lb-ft)	
25	88591210	2	O-RING	
26	88201102	5	HEX HD CAPSCREW, 5/8-11X3-1/4, GR5, (lubricate & torque to 140-155 lb-ft)	
27	80273008	1	IN-LINE FILTER ELEMENT	
28	80963060	1	SHROUD	
29	80963069	3	MALE PIN	
30	80963067	3	SEAL	
31	80274011	1	RETURN SWITCH, (35 psi)	
32	80933068	1	BREATHER ASSY	
33	88711573	1	REDUCING BUSHING, 1/2X3/8	
34	88711572	1	REDUCING BUSHING, 3/8X1/4	
35	80973044	1	DRAIN VALVE	
36	86983646	1	BRASS TEE, 1/4	
37	91123061	1	BULKHEAD CONNECTOR	
38	80243028	AR	SHIM	



HYDRAULIC COMPONENTS

S/N 0334335 thru 0335343,
0330639 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

Figure 9-18 Hydraulic Reservoir Assembly

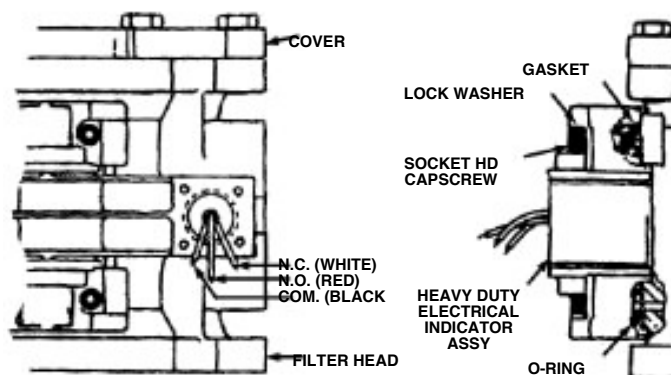


REPLACEMENT MOUNTING KIT: 8037-3118, CONSISTS OF:
(1) GASKET, (8) STATIC SEAL A, & (6) STATIC SEAL B.

LUBRICATE & INSTALL O-RING INTO RECESS ON INDICATOR ASSY. USE VASELINE OR EQUIVALENT LUBRICANT FOR SEALS.

CAUTION
DO NOT OVER TORQUE SCREWS (18-24 LB-IN)

COVER OF HYDRAULIC IN-LINE FILTER



PAD9080
PAD9090

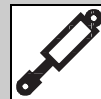
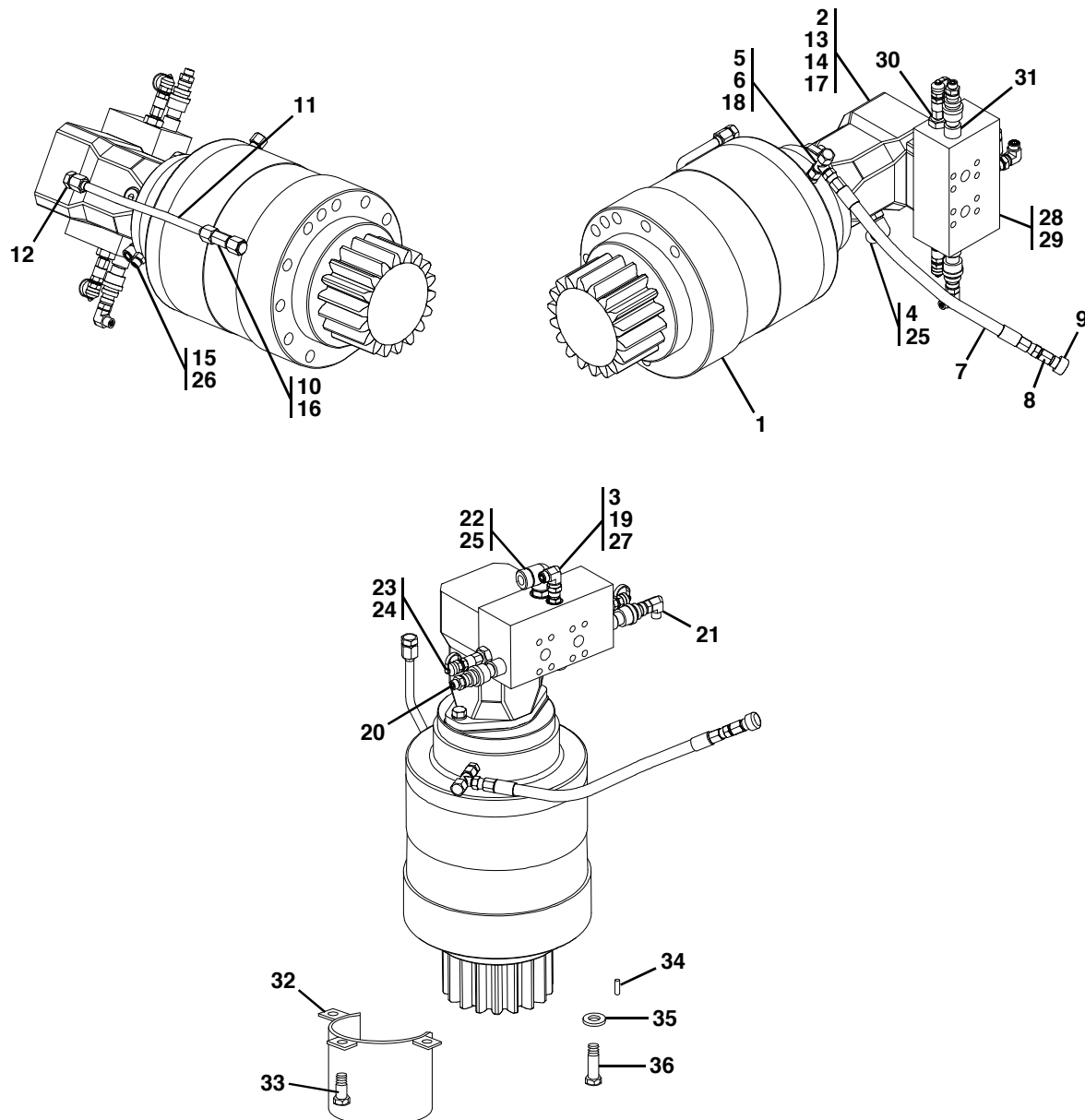


Figure 9-18 Hydraulic Reservoir Assembly

Item	Part Number	Qty.	Description	Rev.
	80375019	1	RESERVOIR ASSY, (includes all items except 10, 14, 15, 22, 23, 26, 32 thru 38, & designated items in Figure 4-6)	
1	80376039	1	RESERVOIR WELDMENT	
2	80373033	1	IN-LINE FILTER ASSY, (includes items 27 thru 31)	
3	88211105	4	SOCKET HD CAPSCREW, 1/2-13X1, GR8, (loctite & torque to 32-38 lb-ft)	
4	80371242	1	FRONT COVER PLATE, (install w/gasket compound)	
5	80371009	1	FILTER MOUNT PLATE	
6	77363038	2	O-RING	
7	80373052	1	FLUID LEVEL GAUGE	
8	88712052	1	ELBOW, 90 DEGREES, 1/4	
9	86883047	1	TUBE FITTING, STRAIGHT, 1/4X3/8 TUBE	
10		AR	NYLON TUBE, 3/8	
11	88201067	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
12	88551013	4	LOCKWASHER, 1/2	
13	80933061	1	HYDRAULIC LEVEL PROBE	
14	83663083	1	CONVERSION ADAPTER	
15	86883054	1	TUBE FITTING, 1/4X3/8 TUBE	
16	80963220	1	HYDRAULIC TEMPERATURE SENDER	
17	88711282	1	HEX SOCKET PIPE PLUG, 3/8	
18	88201036	16	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
19	88551011	16	LOCKWASHER, 3/8	
20	91123061	1	BULKHEAD CONNECTOR	
21	14404857	AR	GASKET COMPOUND	
22	90027472	6	HARDENED WASHER, 5/8	
23	88201096	1	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5, (lubricate & torque to 140-155 lb-ft)	
24	88662180	1	HEX HD PLUG, (includes item 25), (lubricate & torque to 150-170 lb-ft)	
25	88591210	1	O-RING	
26	88201102	5	HEX HD CAPSCREW, 5/8-11X3-1/4, GR5, (lubricate & torque to 140-155 lb-ft)	
27	80273008	1	IN-LINE FILTER ELEMENT	
28	80963060	1	SHROUD	
29	80963069	3	MALE PIN	
30	80963067	3	SEAL	
31	80274011	1	RETURN SWITCH, (35 psi)	
32	80933068	1	BREATHER ASSY	
33	88711573	1	REDUCING BUSHING, 1/2X3/8	
34	88711572	1	REDUCING BUSHING, 3/8X1/4	
35	80973044	1	DRAIN VALVE	
36	86983646	1	BRASS TEE, 1/4	
37	80243028	AR	SHIM, (not shown)	



Figure 9-19 Swing Transmission Assembly



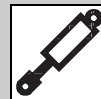
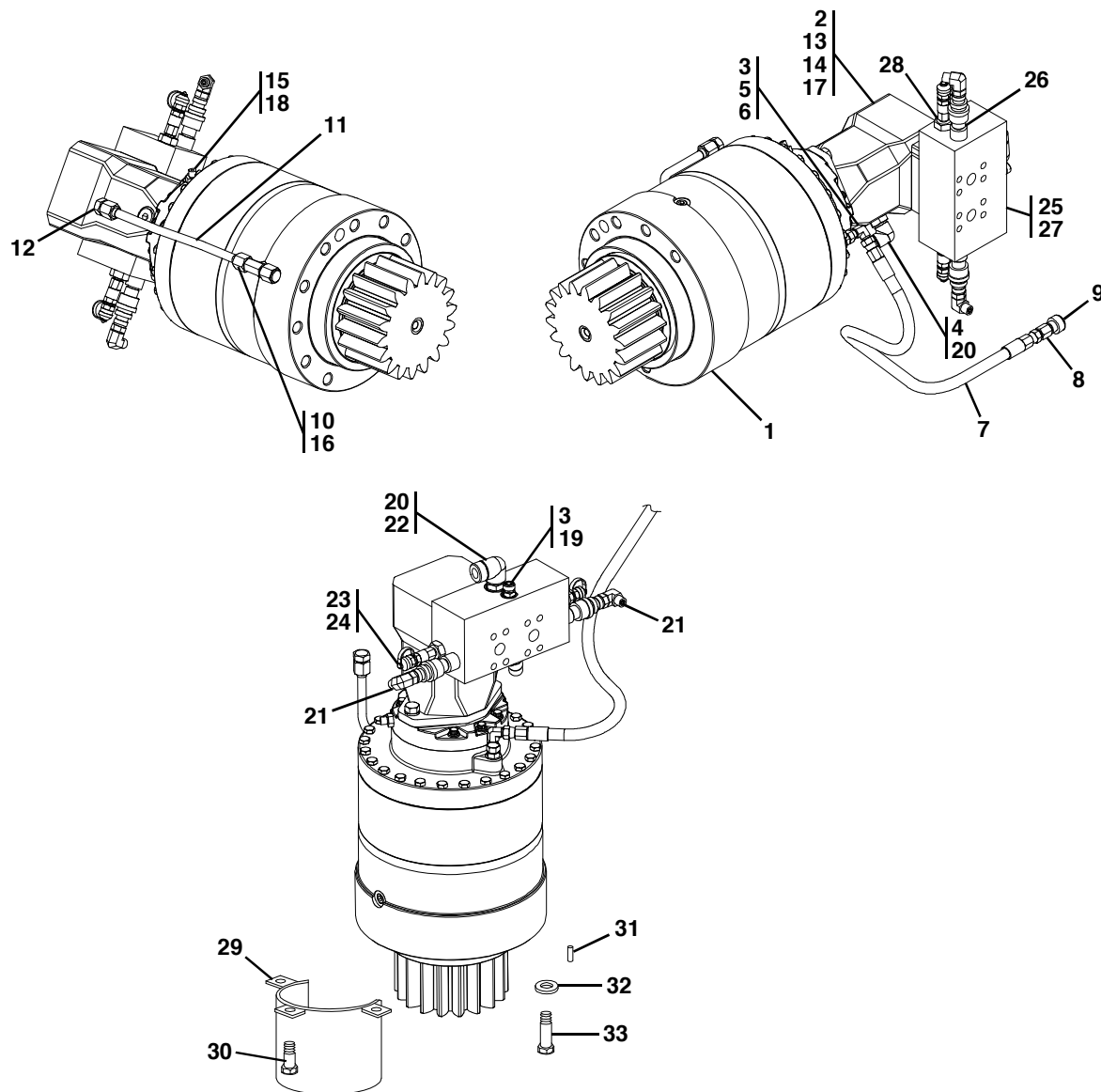


Figure 9-19 Swing Transmission Assembly

Item	Part Number	Qty.	Description	Rev.
		1	SWING TRANSMISSION ASSY, (includes items 1 thru 31), (no longer available; order 80345004S (located on the following page) for complete assembly replacement)	B
1		Ref	SWING DRIVE ASSY, (see Figure 9-20 for details)	
2		Ref	SWING MOTOR ASSY, (see Figure 9-21 for details)	
3	88662371	1	ELBOW, 90 DEGREES, (swivel nut)	
4	88662435	1	ELBOW, 90 DEGREES, (includes item 25)	
5	88661009	1	MALE CONNECTOR, 3/8X3/8 TUBE	
6	88661364	1	HEX CAP, 3/8 TUBE	
7	84717889	1	HOSE ASSY	
8	80243019	1	ADAPTER	
9	77343070	1	VENT	
10	88661245	1	MALE OUTLET TEE, 3/8X1/2 TUBE	
11	80343003	1	TUBE	
12	88661385	1	HEX PLUG, 1/2	
13	88201072	2	HEX HD CAPSCREW, 1/2-13X2-3/4, GR5	
14	88551013	2	LOCKWASHER, 1/2	
15	88662300	1	CONNECTOR, (includes item 26)	
16	88661365	1	HEX CAP, 1/2 TUBE	
17	80243021	1	O-RING	
18	88662239	1	SWIVEL NUT RUN TEE, 3/8 TUBE	
19	88662301	1	CONNECTOR, (includes item 27)	
20	80233254	1	STRAIGHT CONNECTOR	
21	80233255	1	ELBOW, 90 DEGREES	
22	88662335	1	ELBOW, 90 DEGREES, (includes item 25)	
23	91083306	2	STRAIGHT CONNECTOR	
24	91143172	2	MINI-CHECK COUPLING, (includes o-ring)	
25	88591206	2	O-RING	
26	88591202	1	O-RING	
27	88591204	1	O-RING	
28	80334605	1	MANIFOLD BLOCK, (includes items 29 thru 31)	
29	80334608	2	O-RING, (between swing motor and manifold)	
30	80334610	2	CHECK VALVE	
31	80334598	2	RELIEF CARTRIDGE, (2-stage)	
32	80346010	1	PINION COVER	
33	80303094	3	WHIZ-LOK BOLT, 3/8-16X3/4	
34	88631684	1	DOWEL PIN	
35	90027473	8	WASHER, 3/4	
36	83201017	8	HEX HD CAPSCREW, 3/4-10X2-3/4, GR5, (torque to 340-365 lb-ft)	



Figure 9-19 Swing Transmission Assembly



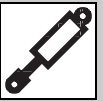
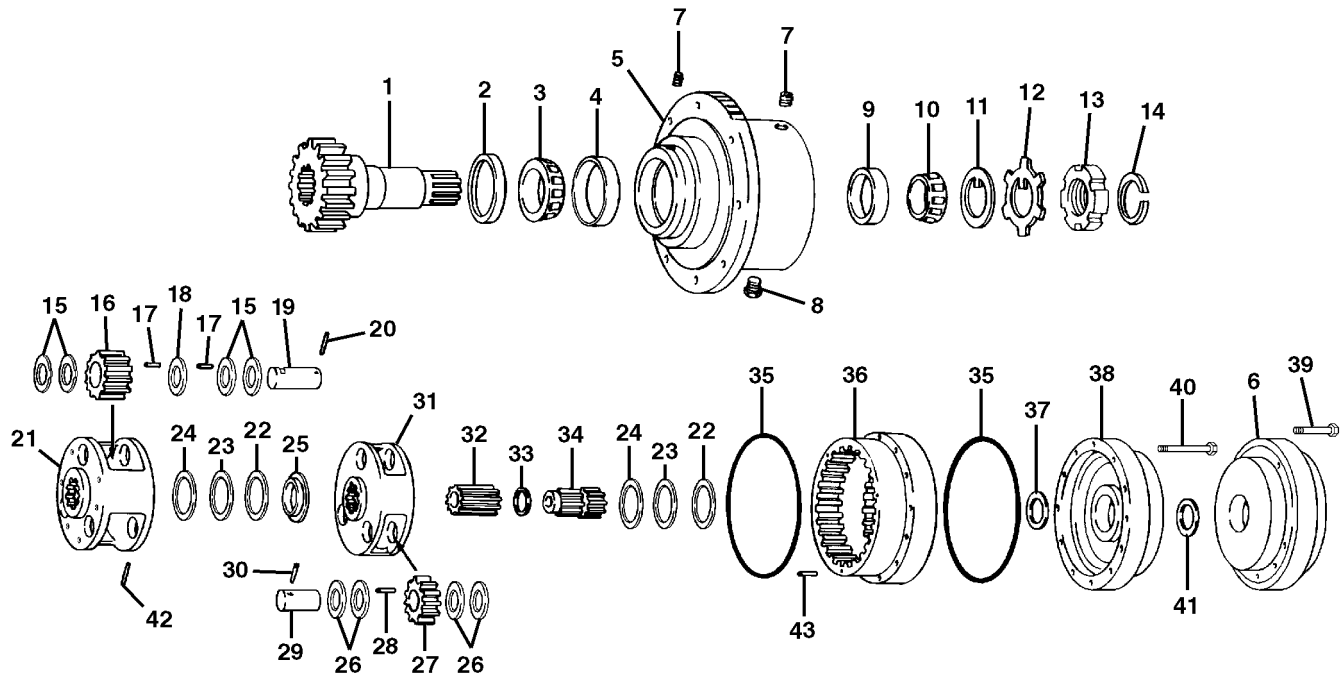


Figure 9-19 Swing Transmission Assembly

Item	Part Number	Qty.	Description	Rev.
	80345004S	1	SWING TRANSMISSION ASSEMBLY, (includes items 1 thru 28)	A1
1		Ref	SWING DRIVE ASSY, (see Figure 9-20 for details)	
2		Ref	SWING MOTOR ASSY, (see Figure 9-21 for details)	
3	88591204	2	O-RING	
4	88662435	1	ELBOW, 90 DEGREES, (includes item 20)	
5	88662005	1	CONNECTOR, (includes item 3)	
6	88662105	1	ELBOW, 90 DEGREES, (swivel nut)	
7	84716547	1	HOSE ASSY	
8	80243019	1	ADAPTER	
9	77343070	1	VENT	
10	88661245	1	MALE OUTLET TEE, 3/8X1/2 TUBE	
11	80343003	1	TUBE	
12	88661385	1	HEX PLUG, 1/2	
13	88201072	2	HEX HD CAPSCREW, 1/2-13X2-3/4, GR5	
14	88551013	2	LOCKWASHER, 1/2	
15	88662300	1	CONNECTOR, (includes item 18)	
16	88661365	1	HEX CAP, 1/2 TUBE	
17	80243021	1	O-RING	
18	88591202	1	O-RING	
19	88662301	1	CONNECTOR, (includes item 3)	
20	88591206	2	O-RING	
21	80233255	1	ELBOW, 90 DEGREES	
22	88662335	1	ELBOW, 90 DEGREES, (includes item 20)	
23	91083306	2	STRAIGHT CONNECTOR	
24	91143172	2	MINI-CHECK COUPLING, (includes o-ring)	
25	80334605	1	MANIFOLD BLOCK, (includes items 26 thru 28)	
26	80334598	2	RELIEF CARTRIDGE, (2-stage)	
27	80334608	2	O-RING, (between swing motor and manifold)	
28	80334610	2	CHECK VALVE	
29	80346011	1	PINION COVER	
30	88681306	3	WHIZ-LOK BOLT, 3/8-16X1/2	
31	88631684	1	DOWEL PIN	
32	90027473	8	WASHER, 3/4	
33	83201017	8	HEX HD CAPSCREW, 3/4-10X2-3/4, GR5, (torque to 340-365 lb-ft)	



Figure 9-20 Swing Drive Assembly



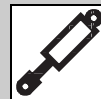
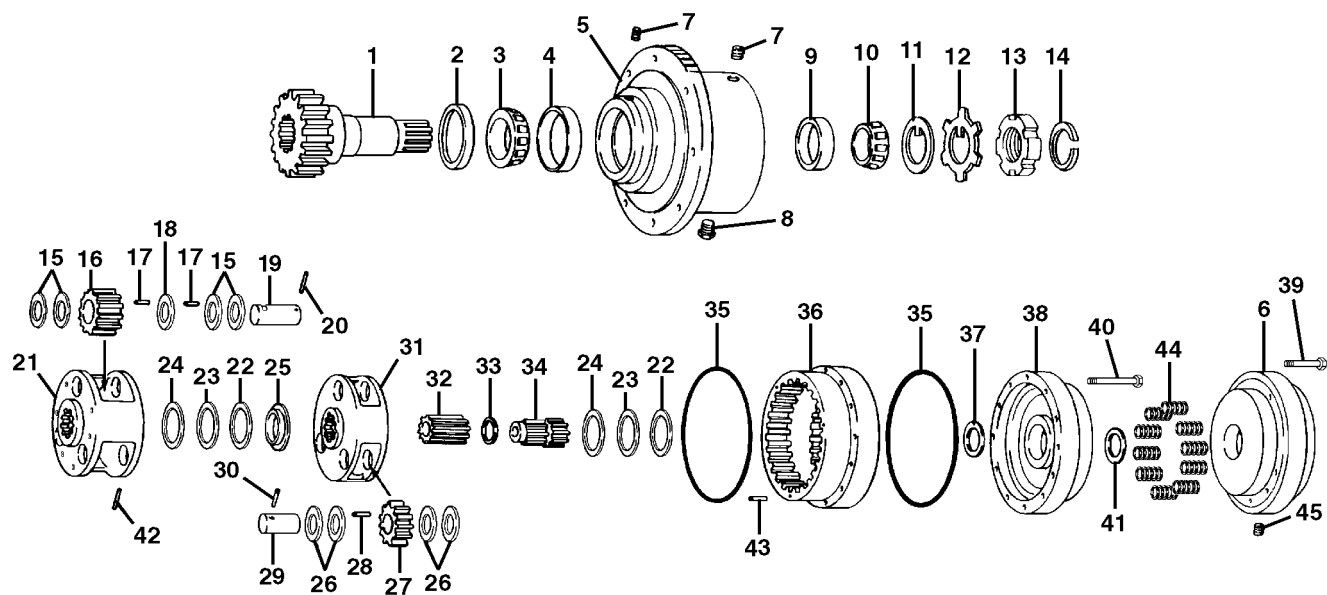


Figure 9-20 Swing Drive Assembly

Item	Part Number	Qty.	Description	Rev.
		1	SWING DRIVE ASSY, (includes all items), (no longer available; order 80343006 (located on the following page) for complete assembly replacement)	D
1	80244012	1	OUTPUT SHAFT	
2	77344004	1	OIL SEAL	
3	77344006	1	BEARING CONE	
4	77344007	1	BEARING CUP	
5	83644010	1	HOUSING	
6		Ref	SWING BRAKE, (see Figure 9-22 for details)	
7	77124007	2	PIPE PLUG	
8	77144008	1	MAGNETIC PLUG	
9	77144005	1	BEARING CUP	
10	77144004	1	BEARING CONE	
11	77344009	1	TANGED WASHER	
12	77344010	1	LOCKWASHER	
13	77344011	1	LOCKNUT	
14	77344012	1	RETAINING RING	
15	77144012	12	THRUST WASHER	
16	77344014	3	PLANET GEAR	
17	77144014	108	NEEDLE ROLLER	
18	77144015	3	THRUST WASHER	
19	83644011	3	PLANET SHAFT	
20	80944033	3	ROLL PIN	
21	83644012	1	SECOND STAGE CARRIER	
22	90202542	2	THRUST WASHER, (thick)	
23	90202543	2	THRUST BEARING	
24	77144019	2	THRUST WASHER, (thin)	
25	77144020	1	THRUST BEARING CARRIER	
26	77144022	12	THRUST WASHER	
27	77144023	3	PLANET GEAR	
28	77144024	57	NEEDLE ROLLER	
29	77144025	3	PLANET SHAFT	
30	77144036	3	ROLL PIN	
31	77144026	1	FIRST STAGE CARRIER	
32	77344015	1	SECOND STAGE SUN GEAR	
33	77144028	1	THRUST WASHER	
34	80244013	1	INPUT GEAR	
35	7000224	2	O-RING	
36	77344017	1	RING GEAR	
37	80244014	1	THRUST WASHER	
38	80244015	1	INPUT COVER	
39	80244017	2	SOCKET HD CAPSCREW	
40	77344019	24	BOLT	
41	90202533	1	RETAINING RING	
42	90202517	3	ROLL PIN	
43	77344055	3	DOWEL PIN	



Figure 9-20 Swing Drive Assembly



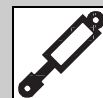


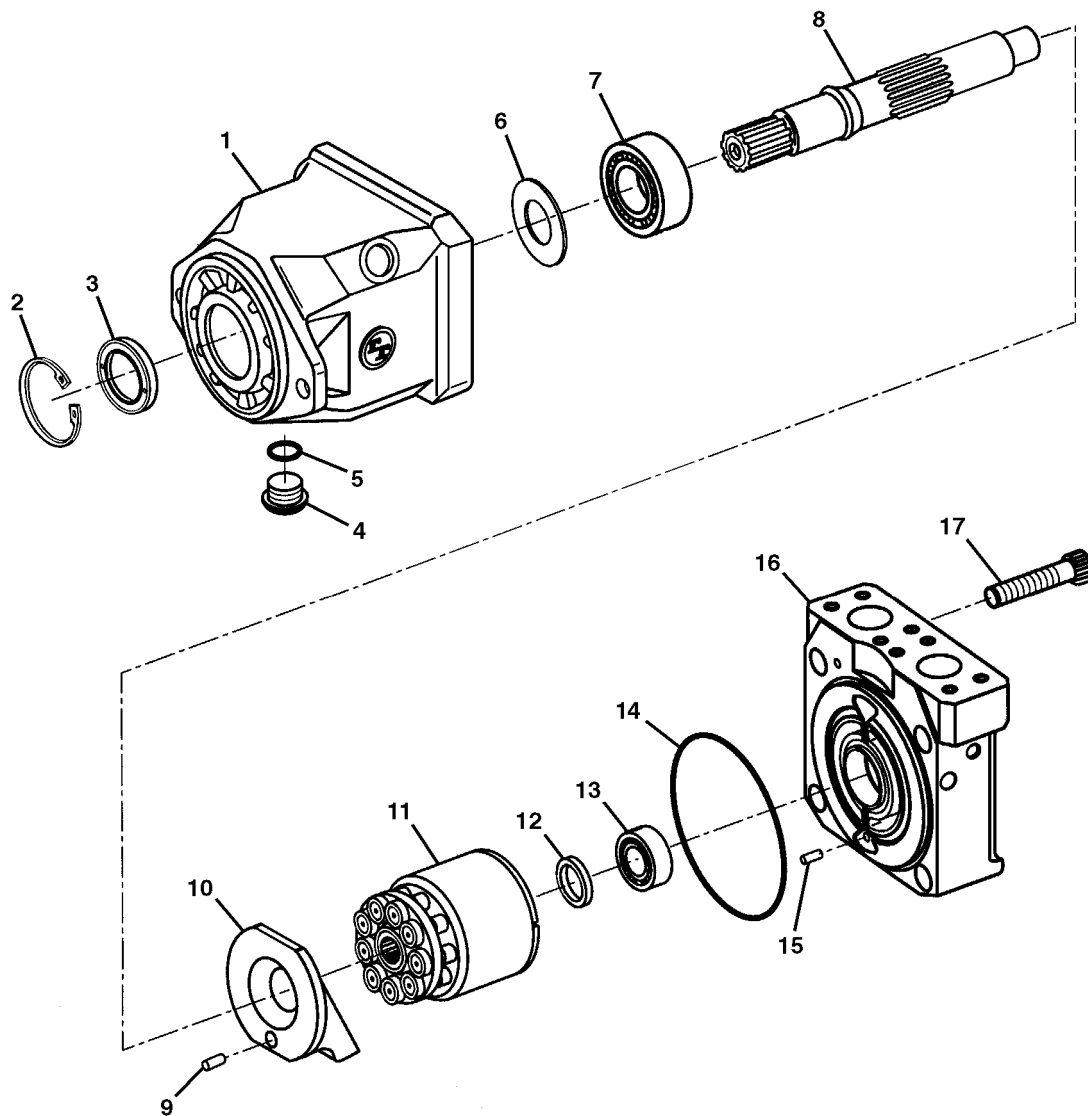
Figure 9-20 Swing Drive Assembly

Item	Part Number	Qty.	Description	Rev.
	80343006	1	SWING DRIVE ASSY, (includes all items)	-
1	80244012	1	OUTPUT SHAFT	
2	77344004	1	OIL SEAL	
3	77344006	1	BEARING CONE	
4	77344007	1	BEARING CUP	
5	83644010	1	HOUSING	
6		Ref	SWING BRAKE, (see Figure 9-22 for details)	
7	77124007	2	PIPE PLUG	
8	77144008	1	MAGNETIC PLUG	
9	77144005	1	BEARING CUP	
10	77144004	1	BEARING CONE	
11	77344009	1	TANGED WASHER	
12	77344010	1	LOCKWASHER	
13	77344011	1	LOCKNUT	
14	77344012	1	RETAINING RING	
15	77144012	12	THRUSTWASHER	
16	77344014	3	PLANET GEAR	
17	77144014	108	NEEDLE BEARING	
18	77144015	3	THRUSTWASHER	
19	83644011	3	PLANET SHAFT	
20	80944033	3	SPRING PIN	
21	83644012	1	SECOND STAGE CARRIER	
22	90202542	2	THRUSTWASHER, (thick)	
23	90202543	2	THRUST BEARING	
24	77144019	2	THRUSTWASHER, (thin)	
25	77144020	1	THRUST BEARING CARRIER	
26	77144022	12	THRUSTWASHER	
27	77144023	3	PLANET GEAR	
28	77144024	57	NEEDLE BEARING	
29	77144025	3	PLANET SHAFT	
30	77144036	3	ROLL PIN	
31	77144026	1	FIRST STAGE CARRIER	
32	77344015	1	SECOND STAGE CARRIER	
33	77144028	1	THRUSTWASHER	
34	80344002	1	INPUT GEAR	
35	7000224	2	O-RING	
36	77344017	1	RING GEAR	
37	80344008	1	THRUSTWASHER	
38	80344003	1	INPUT COVER	
39	80344007	6	SOCKET HD CAPSCREW	
40	77344019	24	BOLT	
41	80344006	1	RETAINING RING	
42	90202517	3	ROLL PIN	
43	77344055	3	DOWEL PIN	
44	80344004	10	SPRING	
45	7017082	1	PIPE PLUG	



HYDRAULIC COMPONENTS

Figure 9-21 Swing Motor Assembly



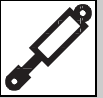
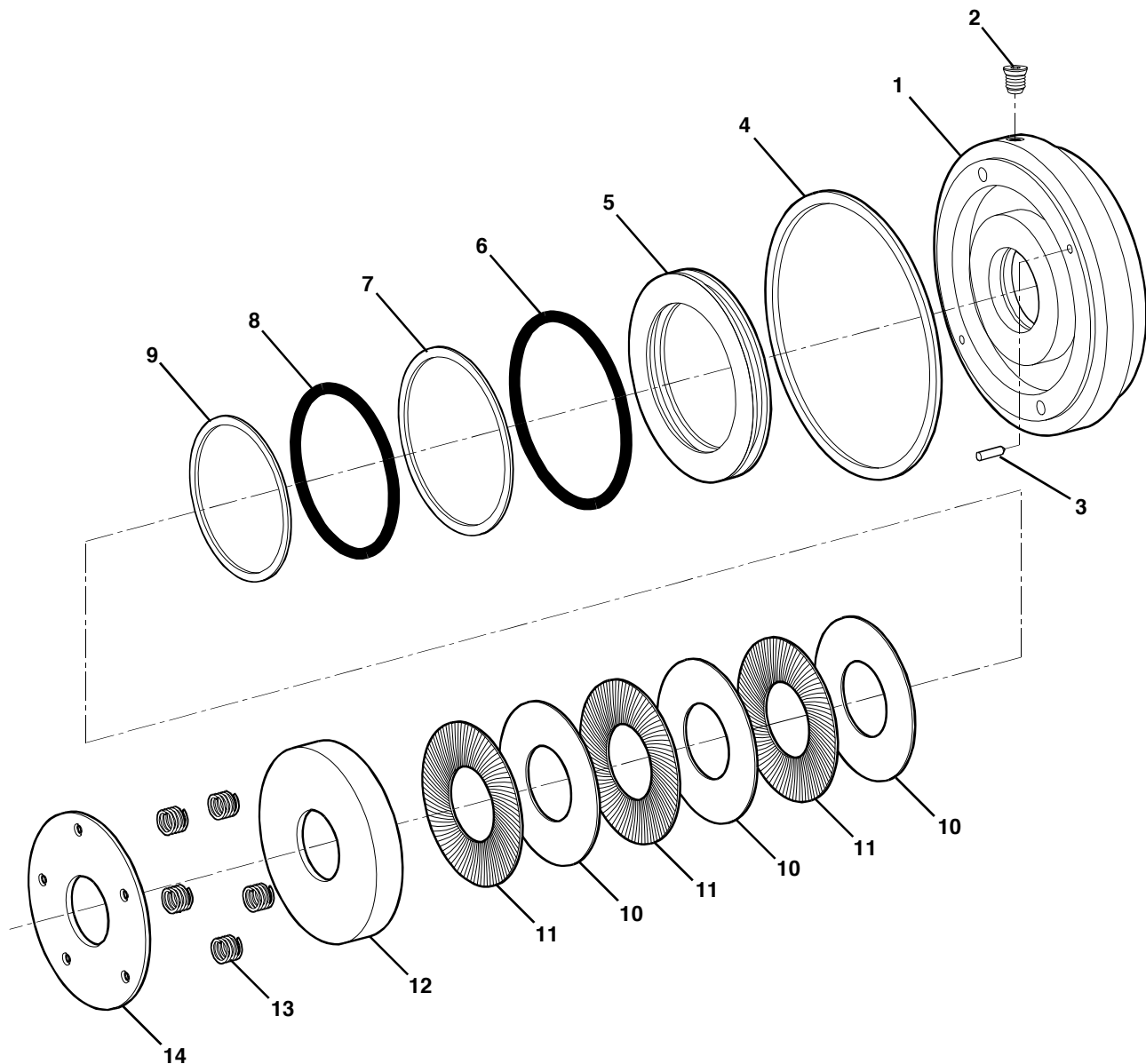


Figure 9-21 Swing Motor Assembly

Item	Part Number	Qty.	Description	Rev.
	80333013	1	SWING MOTOR ASSY, (includes items 1 thru 17 and 80334605 manifold block located on Figure 9-19)	D
1	80334006	1	HOUSING	
2	80334007	1	RETAINING RING	
3		1	SHAFT SEAL	
4	80334008	1	PLUG, (includes item 5)	
5		1	O-RING	
6	80334009	1	STOP RING	
7	80334010	1	ROLLER BEARING	
8	80334011	1	DRIVE SHAFT	
9	80334012	2	DOWEL PIN	
10	80334013	1	SWASH PLATE	
11	80334014	1	ROTARY GROUP	
12	80334015	AR	PRELOAD SHIM, (3.00mm)	
	80334016	AR	PRELOAD SHIM, (2.10mm)	
	80334017	AR	PRELOAD SHIM, (2.15mm)	
	80334018	AR	PRELOAD SHIM, (2.20mm)	
	80334019	AR	PRELOAD SHIM, (2.25mm)	
	80334020	AR	PRELOAD SHIM, (2.30mm)	
	80334021	AR	PRELOAD SHIM, (2.35mm)	
12	80334022	AR	PRELOAD SHIM, (2.40mm)	
	80334023	AR	PRELOAD SHIM, (2.45mm)	
	80334024	AR	PRELOAD SHIM, (2.50mm)	
	80334025	AR	PRELOAD SHIM, (2.55mm)	
	80334026	AR	PRELOAD SHIM, (2.60mm)	
	80334027	AR	PRELOAD SHIM, (2.65mm)	
	80334028	AR	PRELOAD SHIM, (2.70mm)	
	80334029	AR	PRELOAD SHIM, (2.75mm)	
	80334030	AR	PRELOAD SHIM, (2.80mm)	
	80334031	AR	PRELOAD SHIM, (2.85mm)	
	80334032	AR	PRELOAD SHIM, (2.90mm)	
	80334033	AR	PRELOAD SHIM, (2.95mm)	
13	80334034	1	ROLLER BEARING	
14		1	O-RING	
15	80334035	1	DOWEL PIN	
16	80334036	1	PORT BLOCK	
17	80334037	4	SOCKET HD CAPSCREW	
	80334005	1	SEAL KIT, (includes items 3, 5 & 14)	



Figure 9-22 Swing Brake



IF BRAKE CONVERSION KIT 80244034 IS USED TO REPLACE ENTIRE SWING BRAKE, REFER TO 80343006 SWING DRIVE ASSEMBLY (page 9-60) AND 80344005 SWING BRAKE ASSEMBLY (page 9-66) PAGES FOR FUTURE PARTS REPLACEMENT. (INSTALLATION INSTRUCTIONS ARE INCLUDED WITH KIT).

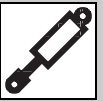
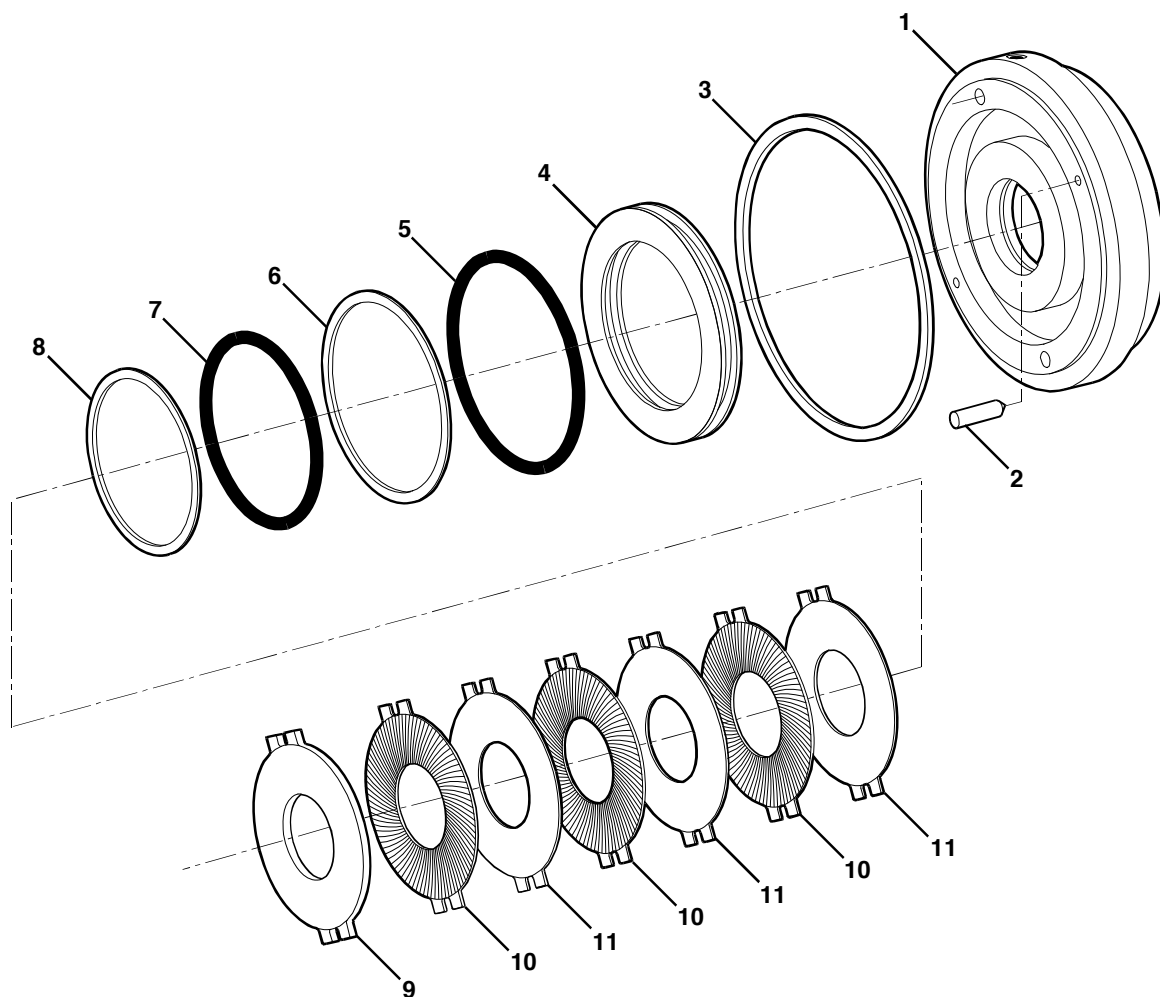


Figure 9-22 Swing Brake

Item	Part Number	Qty.	Description	Rev.
	80244016	1	SWING BRAKE, (includes all items), (no longer available; order 80244034 brake conversion kit for complete assembly replacement)	
1	80244018	1	PRESSURE PLATE	
2	80244019	1	PLUG	
3	80244020	2	DOWEL PIN	
4	80244021	1	CASE SEAL	
5	80244022	1	PISTON	
6	80244023	1	O-RING	
7	80244024	1	BACK-UP RING	
8	80244025	1	O-RING	
9	80244026	1	BACK-UP RING	
10	80244027	3	STATOR	
11	80244028	3	ROTOR	
12	80244029	1	PLATE	
13	80244030	5	SPRING	
14	80244031	1	SPRING GUIDE	



Figure 9-22 Swing Brake



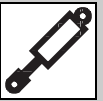


Figure 9-22 Swing Brake

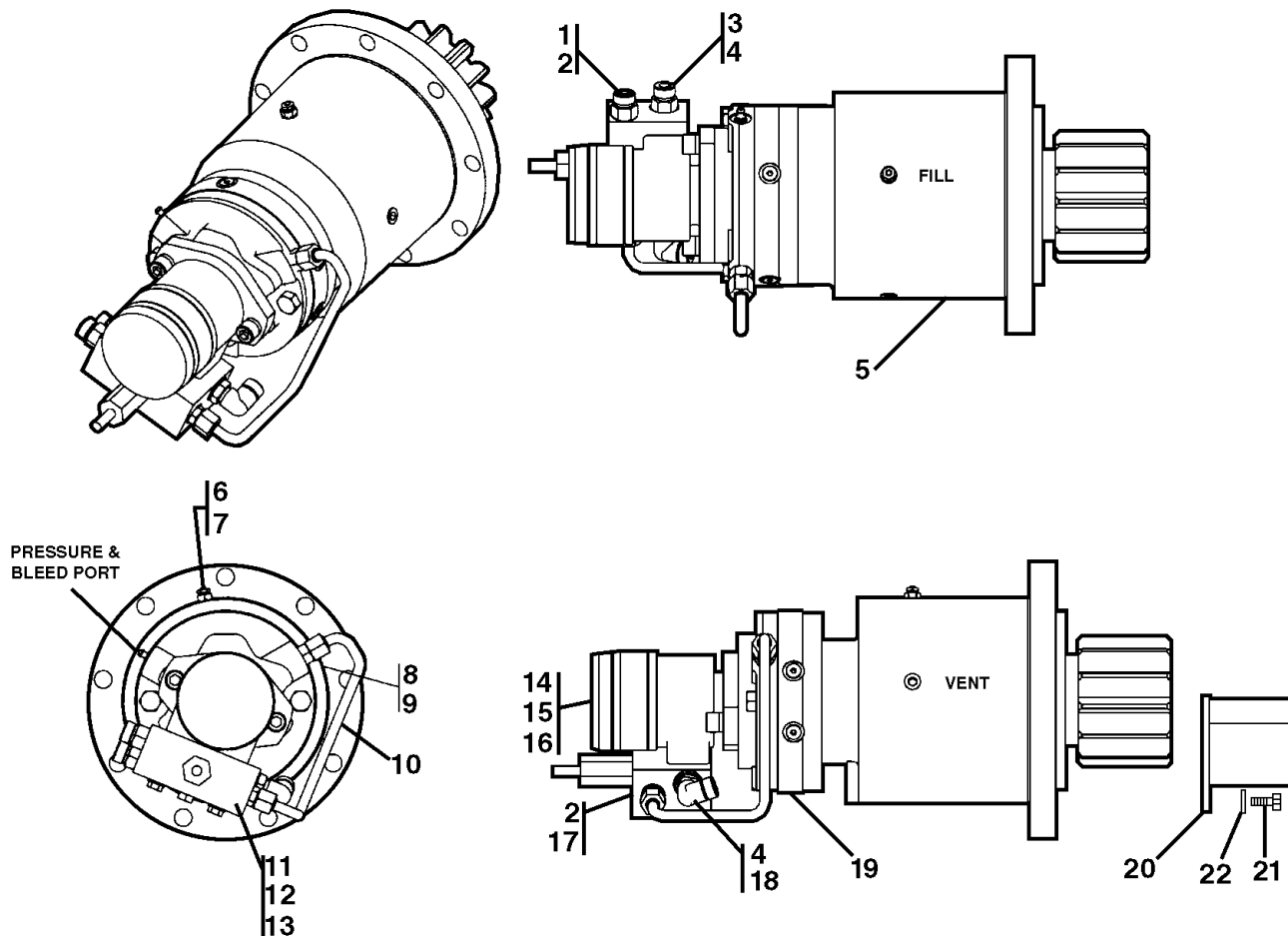
Item	Part Number	Qty.	Description	Rev.
	80344005	1	SWING BRAKE, (includes all items)	
1	80344009	1	CYLINDER	
2	80344010	2	DOWEL PIN	
3		1	CORK GASKET	
4	80344011	1	PISTON	
5		1	O-RING	
6		1	BACK-UP RING	
7		1	O-RING	
8		1	BACK-UP RING	
9		1	PRESSURE PLATE	
10		3	FRICTION PLATE	
11		3	OUTER PLATE	
	80344018	AR	FRICTION DISC KIT, (includes items 3 & 9 thru 11)	
	80344017	AR	SEAL KIT, (includes items 3 & 5 thru 8)	



HYDRAULIC COMPONENTS

S/N 0337338 thru 0335343,
0330639 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

Figure 9-23 Tilt Transmission



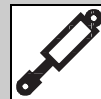
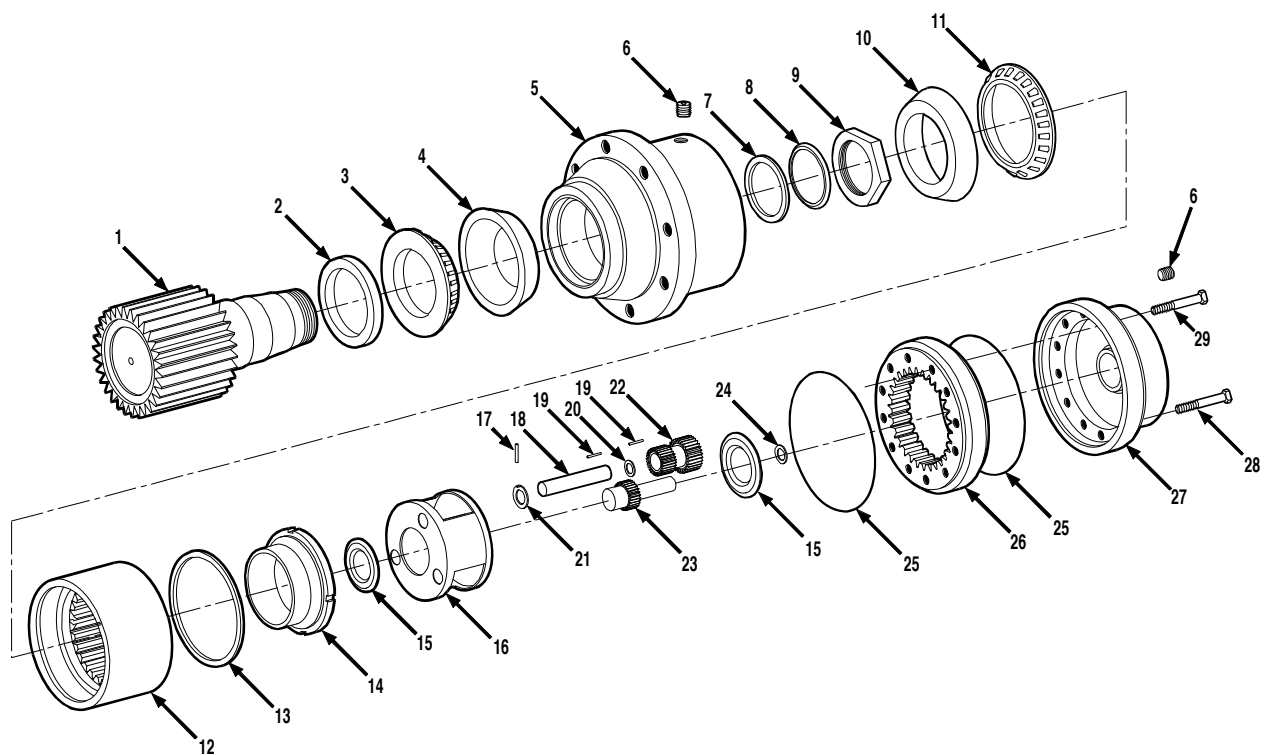


Figure 9-23 Tilt Transmission

Item	Part Number	Qty.	Description	Rev.
	80425007	1	TILT TRANSMISSION, (includes items 1 thru 18)	
1	88662440	1	CONNECTOR, (includes item 2)	
2	88591204	2	O-RING	
3	88662302	1	CONNECTOR, (includes item 4)	
4	88591205	2	O-RING	
5		Ref	TILT TRANSMISSION, (see Figure 9-24 for details)	
6	2220273	1	REDUCING BUSHING, 1/4X1/8 TUBE	
7	80423055	1	RELIEF FITTING	
8	88662444	1	CONNECTOR, (includes item 9)	
9	88591202	1	O-RING	
10	80423039	1	TUBE ASSY	
11	80423049	1	TILT SEQUENCE VALVE	
12	83201177	4	HEX HD CAPSCREW, 5/16-18X2-1/2, GR8	
13	90027469	4	HARDENED WASHER, 5/16	
14		Ref	TILT MOTOR, (see Figure 9-26 for details)	
15	88211106	2	SOCKET HD CAPSCREW, 1/2-13X1-1/2, GR8, (lubricate & torque to 68-78 lb-ft)	
16	88551109	2	LOCKWASHER, 1/2	
17	88662301	1	CONNECTOR, (includes item 2)	
18	88662330	1	ELBOW, 90 DEGREES, (includes item 4)	
19		Ref	TILT BRAKE, (see Figure 9-25 for details)	
20	80423012	1	TILT PINION GUARD	
21	88201037	3	HEX HD CAPSCREW, 3/8-16X1, GR5	
22	88561109	3	FLAT WASHER, 3/8	



Figure 9-24 Tilt Transmission



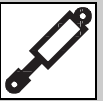


Figure 9-24 Tilt Transmission

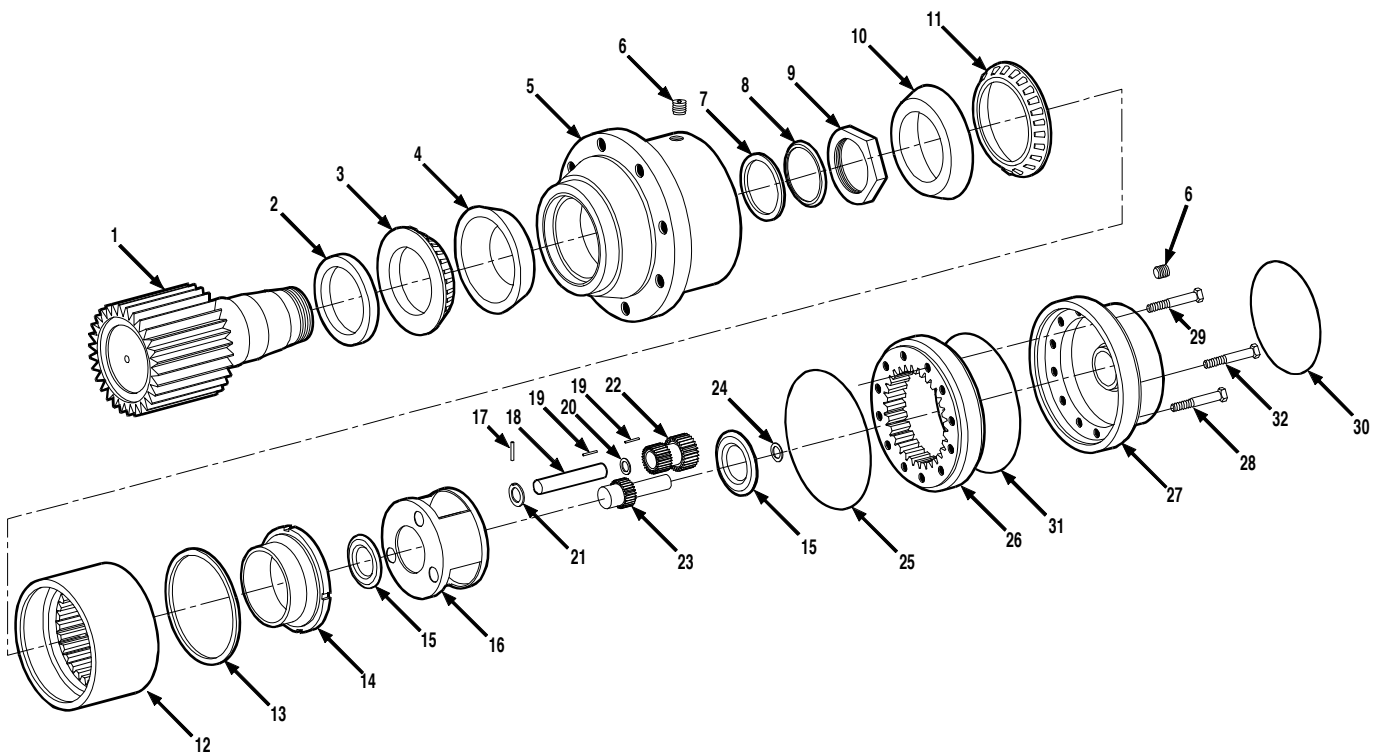
Item	Part Number	Qty.	Description	Rev.
	80323002	1	TILT TRANSMISSION, (includes all items)	
1	80324013	1	OUTPUT SHAFT	
2	80324014	1	LIP SEAL	
3	80324015	1	BEARING CONE	
4	80324016	1	BEARING CUP	
5	80324017	1	HOUSING	
6	80944005	2	PIPE PLUG	
7	80324018	1	TANGED WASHER	
8	80324019	1	TANGED LOCKWASHER	
9	80324020	1	BEARING NUT	
10	90202500	1	BEARING CUP	
11	90202501	1	BEARING CONE	
12	80324021	1	INTERNAL GEAR	
13	80324022	1	RETAINING RING	
14	80324023	1	INTERNAL COUPLING	
15	80324024	2	THRUST WASHER	
16	80324025	1	CARRIER	
17	80324026	3	ROLL PIN	
18	80324027	3	PLANETARY SHAFT	
19	80324028	96	NEEDLE BEARING	
20	80324029	1	THRUST SPACER	
21	80324030	6	TANGED THRUST WASHER	
22	80324031	3	CLUSTER GEAR	
23	80324032	1	SUN GEAR	
24	80324033	1	THRUST WASHER	
25	80324034	2	O-RING	
26	80324035	1	RING GEAR	
27	80324036	1	INPUT COVER	
28	80324037	8	HEX HD CAPSCREW	
29	80324038	4	HEX SHOULDER BOLT	



HYDRAULIC COMPONENTS

S/N 0337338 thru 0335343,
0330639 thru 0330665,
0210017446 thru 0210018092
& 3300000666 & After

Figure 9-24 Tilt Transmission



PAD9200

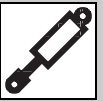
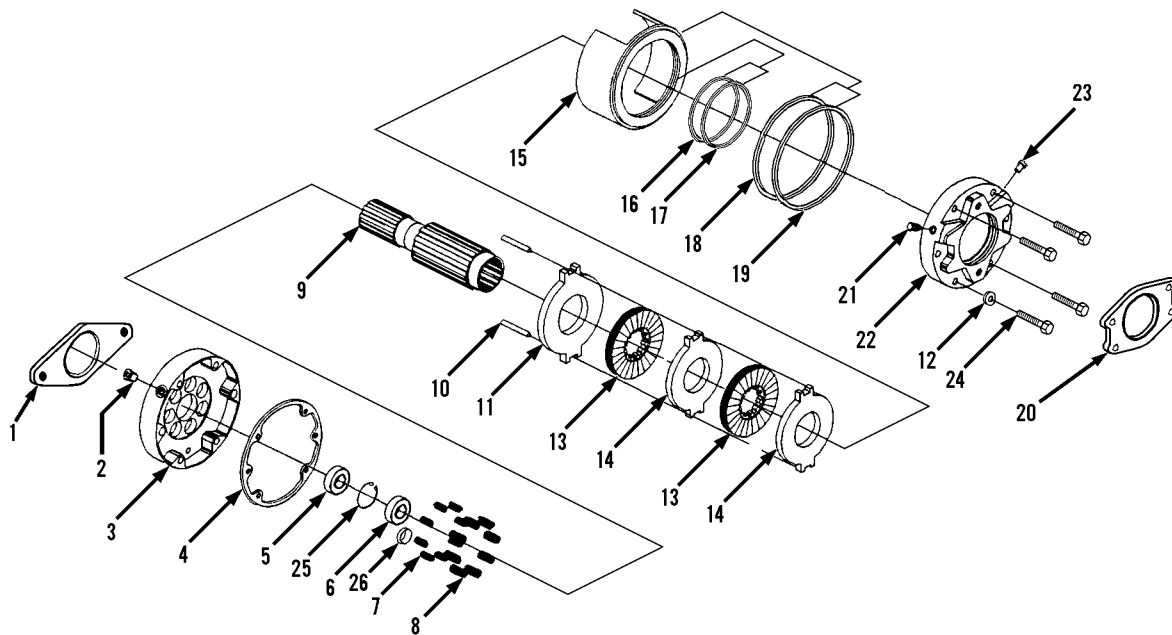


Figure 9-24 Tilt Transmission

Item	Part Number	Qty.	Description	Rev.
	80423003	1	TILT TRANSMISSION, (includes all items)	
1	80324013	1	OUTPUT SHAFT	
2	80324014	1	LIP SEAL	
3	80324015	1	BEARING CONE	
4	80324016	1	BEARING CUP	
5	80424001	1	HOUSING	
6	80944005	3	PIPE PLUG	
7	80324018	1	TANGED WASHER	
8	80324019	1	TANGED LOCKWASHER	
9	80324020	1	BEARING NUT	
10	90202500	1	BEARING CUP	
11	90202501	1	BEARING CONE	
12	80324021	1	INTERNAL GEAR	
13	80324022	1	RETAINING RING	
14	80324023	1	INTERNAL COUPLING	
15	80324024	2	THRUSTWASHER	
16	80424002	1	CARRIER	
17	80324026	3	ROLL PIN	
18	80324027	3	PLANETARY SHAFT	
19	80324028	96	NEEDLE BEARING	
20	80324029	1	THRUST SPACER	
21	80324030	6	TANGED THRUSTWASHER	
22	80324031	3	CLUSTER GEAR	
23	80324032	1	SUN GEAR	
24	80324033	1	THRUSTWASHER	
25	80324034	1	O-RING	
26	80324035	1	RING GEAR	
27	80424006	1	INPUT COVER	
28	80324037	8	HEX HD CAPSCREW	
29	80324038	4	HEX SHOULDER BOLT	
30	80424004	1	O-RING, (between tilt transmission & tilt motor)	
31	80424032	1	O-RING	
32	80424008	2	HEX HD CAPSCREW, 1/2-13X3-1/4, GR 8	



Figure 9-25 Tilt Brake Assembly



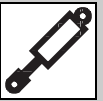
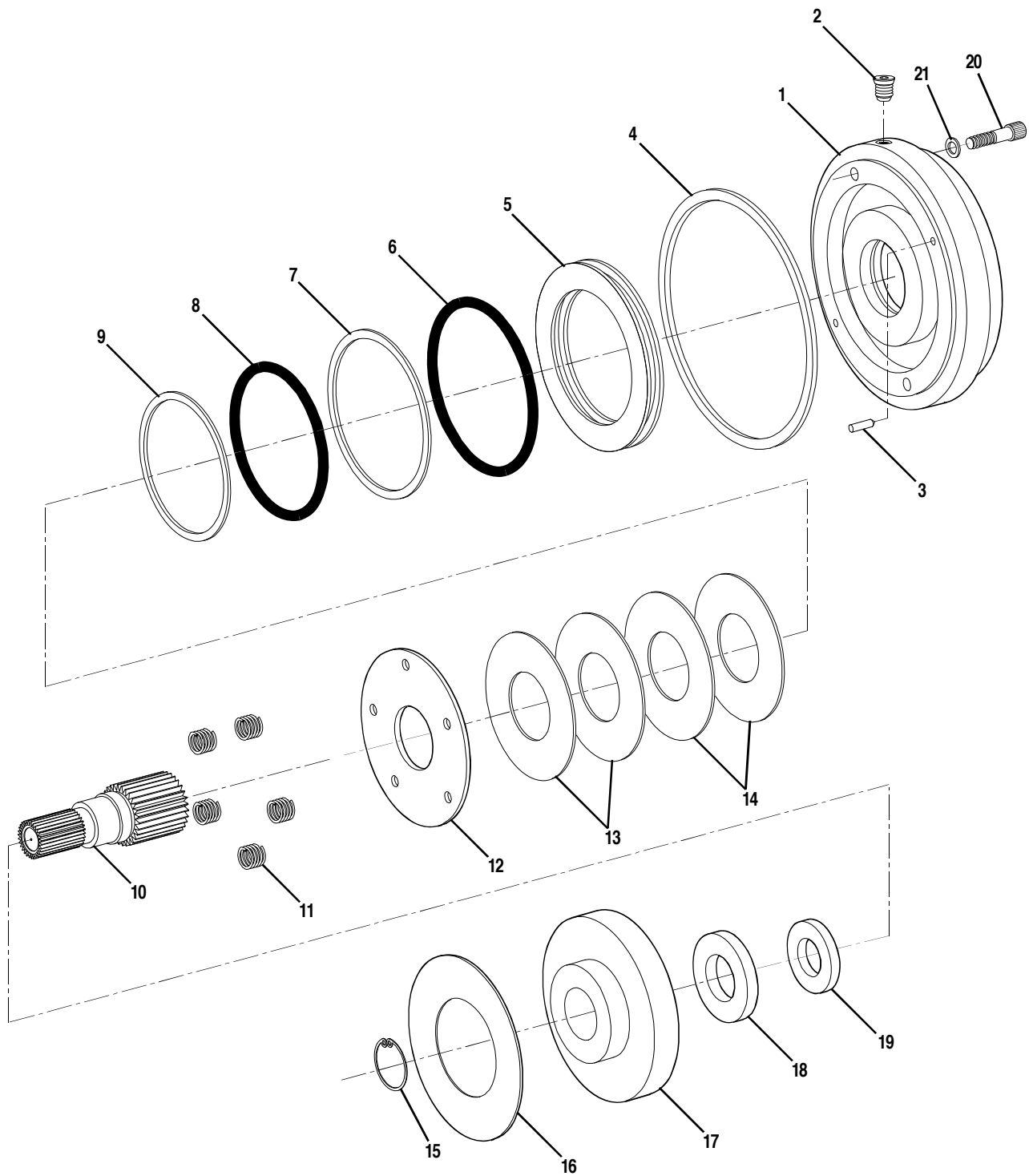


Figure 9-25 Tilt Brake Assembly

Item	Part Number	Qty.	Description	Rev.
	80323004	1	TILT BRAKE, (includes all items)	
1	77134059	1	GASKET	
2	80224001	4	TEFLON TAPED PIPE PLUG	
3	80324001	1	HOUSING	
4	80324002	1	GASKET	
5	77134209	1	BALL BEARING	
6	77134210	1	OIL SEAL	
7	86691294	6	COMPRESSION SPRING	
8	86691295	5	COMPRESSION SPRING	
9	80324003	1	SPLINED SHAFT	
10	80224005	2	TORQUE PIN	
11	80324004	1	PRIMARY DISC	
12	80324005	4	WASHER	
13	80324006	2	ROTATING DISC	
14	80324007	2	STATIONARY DISC	
15	80324008	1	PISTON	
16	77134075	1	BACK-UP RING	
17	77134076	1	O-RING	
18	77134073	1	BACK-UP RING	
19	77134074	1	O-RING	
20	80224036	1	GASKET	
21	86693001	1	BLEEDER SCREW	
22	80324009	1	POWER PLATE	
23	77134220	1	PROTECTIVE PLUG	
24	80324010	4	HEX HD CAPSCREW	
25	80324011	1	SNAP RING	
26	80324012	6	SPRING RETAINER	



Figure 9-25 Tilt Brake Assembly



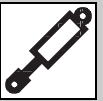


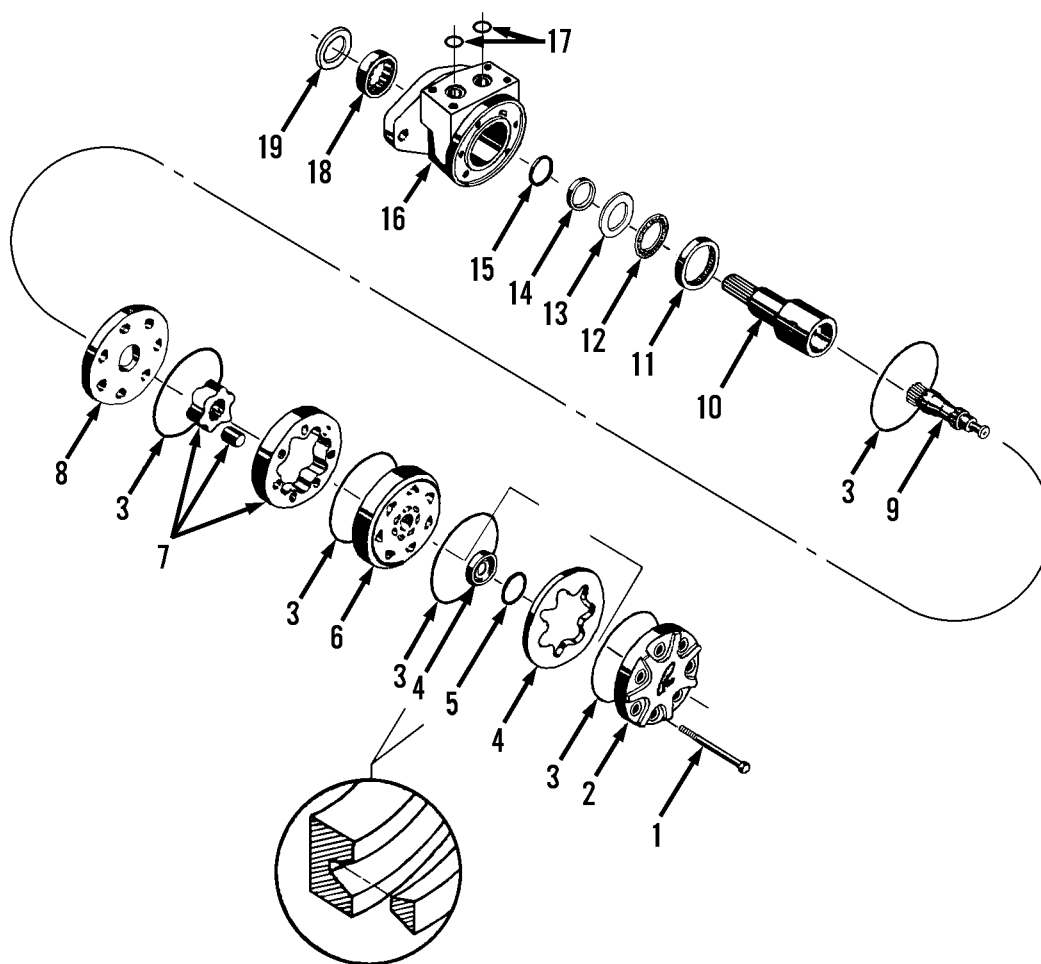
Figure 9-25 Tilt Brake Assembly

Item	Part Number	Qty.	Description	Rev.
	80424003	1	TILT BRAKE ASSY, (includes all items)	
1	80424012	1	CYLINDER	
2	80424007	1	BRAKE SCREW BLEEDER	
3	80424013	2	DOWEL	
4		1	CORK GASKET	
5	80424015	1	PISTON	
6		1	O-RING	
7		1	BACK-UP RING	
8		1	O-RING	
9		1	BACK-UP RING	
10	80424020	1	SHAFT	
11	80424021	1	SPRING KIT	
12	80424022	1	PRESSURE PLATE	
13		2	INNER PLATE	
14		2	OUTER PLATE	
15		1	RETAINING RING	
16		2	PAPER GASKET	
17		1	HOUSING, (not available for service)	
18		1	BEARING	
19		1	ROTARY SEAL	
20	80424030	6	SOCKET HD CAPSCREW	
21	80424031	6	SAFETY WASHER	
	80424009	AR	FRICTION DISC KIT, (includes items 4, 12, 13 & 14)	
	80424010	AR	SEAL KIT, (includes items 4, 6, 7, 8, 9 & 16)	
	80424011	AR	BEARING KIT, (includes items 4, 15, 18 & 19)	



HYDRAULIC COMPONENTS

Figure 9-26 Tilt Motor



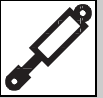


Figure 9-26 Tilt Motor

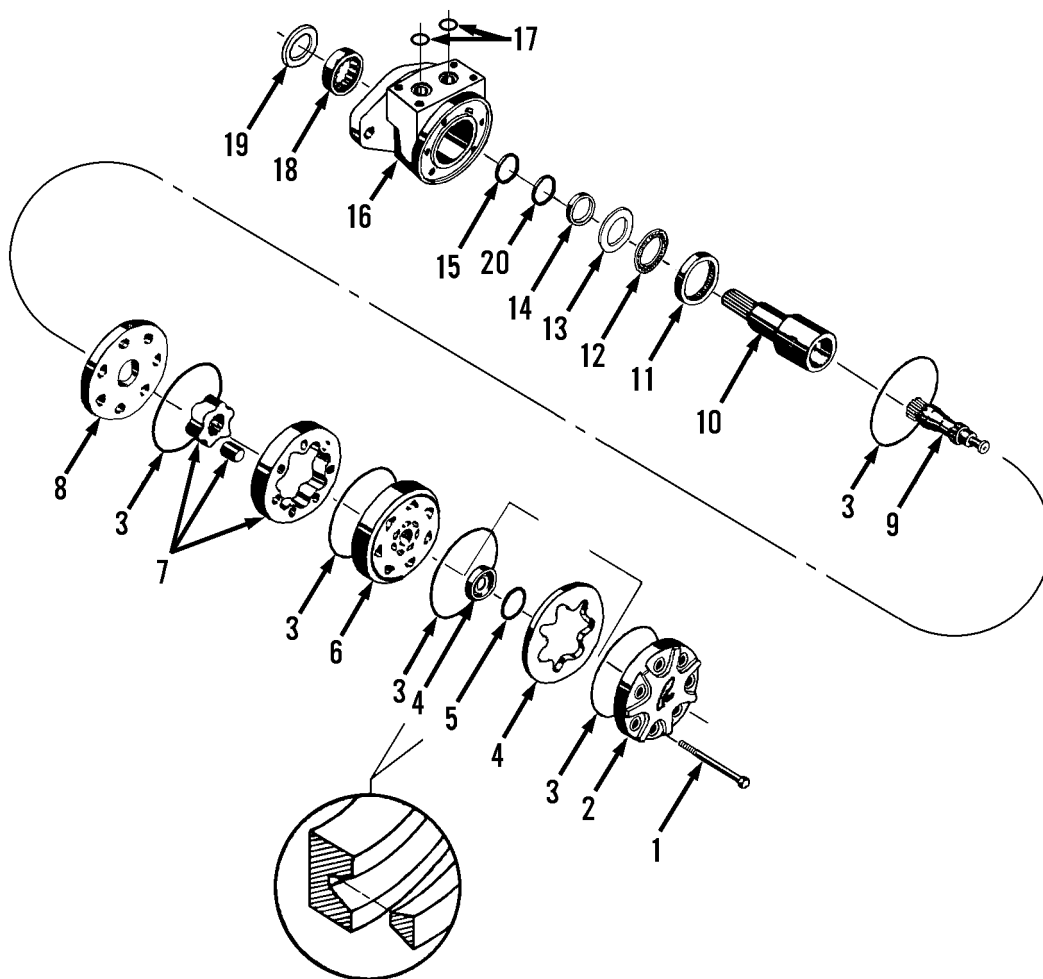
Item	Part Number	Qty.	Description	Rev.
	80323026	1	TILT MOTOR, (includes all items)	
1	80324039	5	BOLT	
2	80324040	1	END COVER	
3	80324041	5	SEAL RING	
4	80324042	1	COMMUTER & RING ASSY	
5	80324043	1	COMMUTER SEAL	
6	80324044	1	MANIFOLD	
7	80324045	1	ROTOR ASSY	
8	80324046	1	WEAR PLATE	
9	80324047	1	DRIVE LINK	
10	80324048	1	COUPLING SHAFT	
11	80324049	1	BRONZE BUSHING	
12	80324050	1	THRUST BEARING	
13	80324051	1	THRUST WASHER	
14	80324052	1	SHAFT SEAL	
15	80324053	1	BACK-UP RING	
16	80324054	1	HOUSING ASSY, (includes items 11, 17 & 18)	
17	80324055	2	O-RING	
18	80324056	1	BEARING	
19	80324057	1	SEAL	
	80324058	AR	SEAL KIT, (includes items 3, 5, 14, 15 & 19)	



HYDRAULIC COMPONENTS

S/N 0210017532 thru 0210018092
& 3300000666 & After

Figure 9-26 Tilt Motor



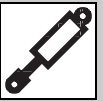
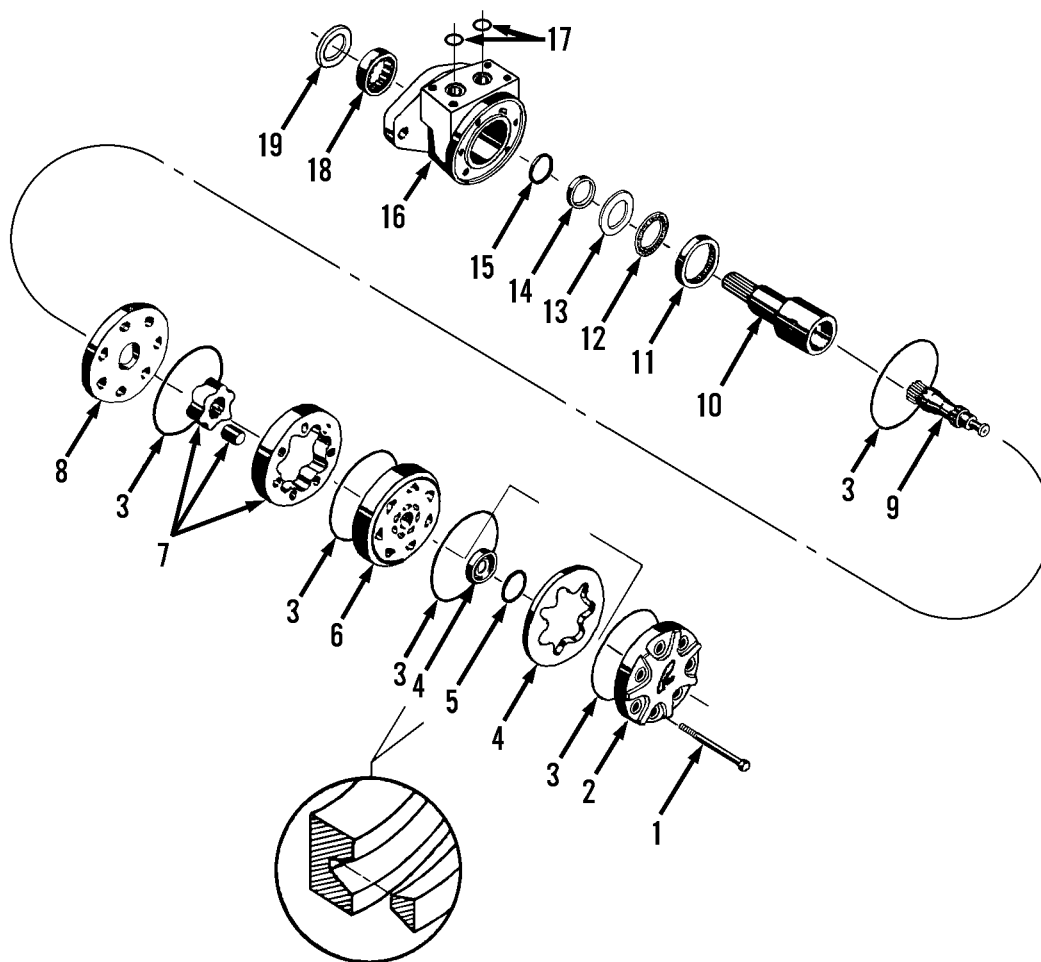


Figure 9-26 Tilt Motor

Item	Part Number	Qty.	Description	Rev.
	80423056	1	TILT MOTOR, (includes all items)	
1	7024454	6	BOLT	
2	7024459	1	END COVER	
3	80324041	5	SEAL RING	
4	7024453	1	COMMUTER & RING ASSY	
5	80324043	1	COMMUTER SEAL	
6	80324044	1	MANIFOLD	
7	80324045	1	ROTOR ASSY	
8	7024380	1	WEAR PLATE	
9	80324047	1	DRIVE LINK	
10	80324048	1	COUPLING SHAFT	
11	80424040	1	BRONZE BUSHING	
12	7004044	1	THRUST BEARING	
13	7004043	1	THRUST WASHER	
14	80324052	1	SHAFT SEAL	
15	80324053	1	BACK-UP RING	
16	80424041	1	HOUSING ASSY, (includes item 17)	
17	80324055	2	O-RING	
18	80424042	1	BEARING	
19	80324057	1	SEAL	
20	80424043	1	BACKUP WASHER	
	80324058	AR	SEAL KIT, (includes items 3, 5, 14, 15 & 19)	



Figure 9-26 Tilt Motor



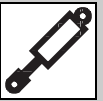


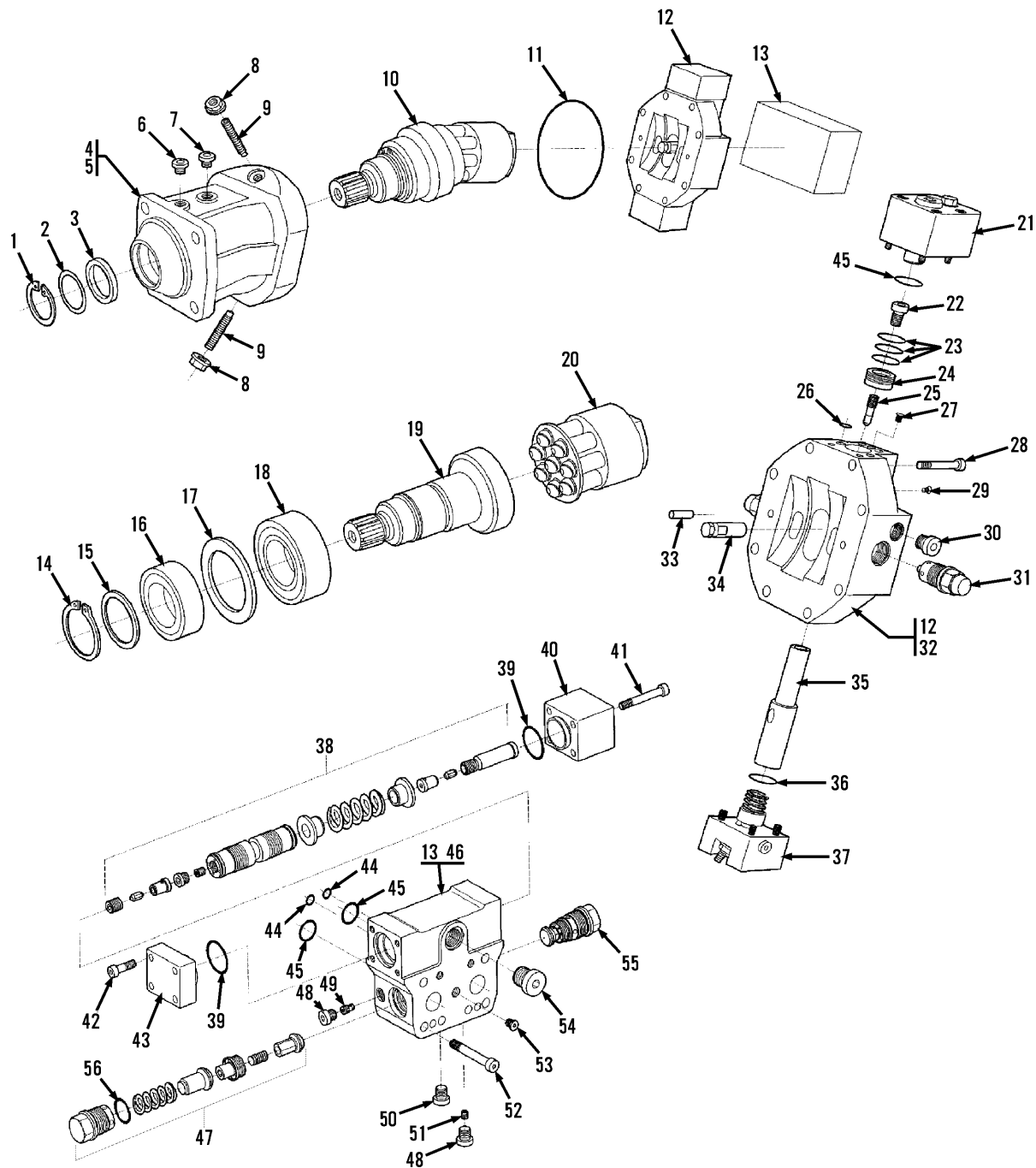
Figure 9-26 Tilt Motor

Item	Part Number	Qty.	Description	Rev.
	83303094	1	TILT MOTOR ASSEMBLY, (includes all items)	
1	7024454	6	BOLT	
2	7024459	1	END COVER	
3	80324041	5	SEAL RING	
4	7024453	1	COMMUTATOR & RING ASSY	
5	80324043	1	COMMUTATOR SEAL	
6	80324044	1	MANIFOLD	
7	80234292	1	ROTOR ASSEMBLY	
8	7024380	1	WEAR LINK	
9	83304150	1	DRIVE LINK	
10	80324048	1	COUPLING SHAFT	
11	80424040	1	BRONZE BUSHING	
12	7004044	1	THRUST BEARING	
13	7004043	1	THRUST WASHER	
14	80324052	1	SHAFT SEAL	
15	80324053	1	BACK-UP RING	
16	80424041	1	HOUSING ASSY, (includes item 17)	
17	80324055	2	O-RING	
18	80424042	1	BEARING	
19	80324057	1	SEAL	
20	80424043	1	BACK-UP WASHER	
	80324058	AR	SEAL KIT, (includes items 3, 5, 14, 15, 19 & 20)	



HYDRAULIC COMPONENTS

Figure 9-27 Drive Motor



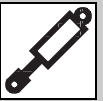


Figure 9-27 Drive Motor

Item	Part Number	Qty.	Description	Rev.
	80333195	1	DRIVE MOTOR, (includes all items)	
1	91404040	1	RETAINING RING	
2	80214343	1	SHIM	
3		1	SHAFT SEAL RING	
4	80334490	1	DRIVE MOTOR, (includes items 1, 2, 3 & 5 thru 9)	
5	80214347	1	HOUSING	
6	80334491	1	LOCKING SCREW	
7	80214345	1	LOCKING SCREW	
8		2	SEAL LOCK NUT	
9	80334493	2	THREADED PIN	
10	80214348	1	ROTARY GROUP ASSY, (includes items 14 thru 20)	
11		1	O-RING	
12	80334495	1	CONTROL, (includes items 21 thru 37 & 45)	
13	80334496	1	MOTION CONTROL VALVE, (includes items 38 thru 55)	
14	80334497	1	RETAINING RING	
15		9	BACK-UP PLATE	
16	80334498	1	ROLLER BEARING	
17	80334499	1	SHIM	
18	80334500	1	ROLLER BEARING	
19	80334501	1	DRIVE SHAFT	
20	80334502	1	ROTARY GROUP	
21	80334595	1	HYDRAULIC STROKE LIMITER	
22	91164111	1	SOCKET HD CAPSCREW	
23		3	SQUARE RING	
24	91404050	1	PISTON	
25	91404051	1	THREADED PIN	
26		8	O-RING	
27		1	DOUBLE BREAK-OFF PIN	
28	91404048	8	SOCKET HD CAPSCREW	
29		1	DOUBLE BREAK-OFF PIN	
30		2	LOCKING SCREW	
31	80334594	2	VALVE	
32		1	PORT PLATE	
33		2	CYLINDER PIN	
34		1	POSITIONING TRUNNION	
35	91404049	1	POSITIONING PISTON	
36		1	O-RING	
37		1	CONTROL PART	
38		1	VALVE	
39		2	O-RING	
40		1	COVER	
41		4	SOCKET HD CAPSCREW	
42	91084384	4	SOCKET HD CAPSCREW	
43		1	COVER	
44		2	O-RING	
45		2	O-RING	
46		1	HOUSING	
47		1	VALVE	
48		2	LOCKING SCREW	



HYDRAULIC COMPONENTS

Figure 9-27 Drive Motor (Continued)

Item	Part Number	Qty.	Description	Rev.
49	80934193	1	SHUTTLE VALVE	
50		1	LOCKING SCREW	
51		1	ORIFICE	
52		2	SOCKET HD CAPSCREW	
53		1	DOUBLE BREAK-OFF PIN	
54		1	LOCKING SCREW	
55		2	VALVE	
56		1	O-RING	
	80334519	1	SEAL KIT, (includes items 3, 8, 11, 23, 26, 30, 36, 39, 44, 45 & 56)	

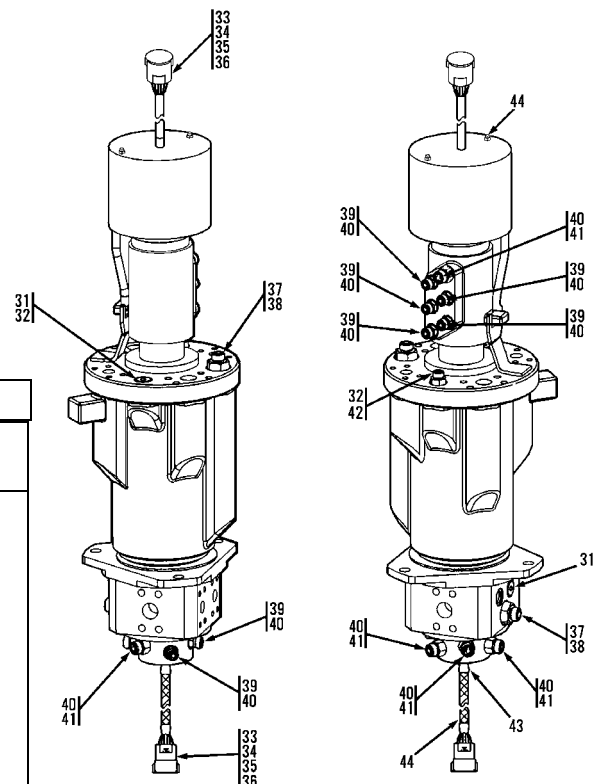
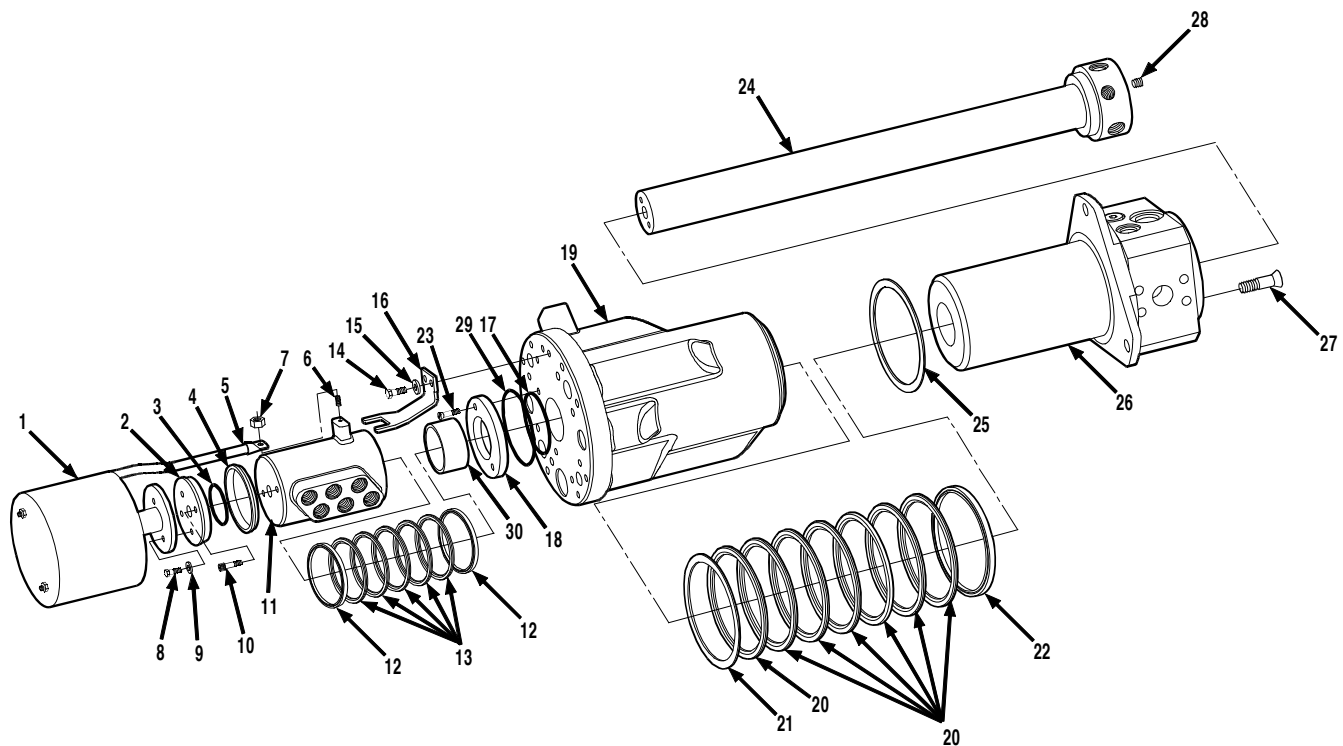
Figure 9-27 Drive Motor (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-28 Center Pin



DEUTSCH DT04-12P				
	WIRE FUNCTION	WIRE COLOR	WIRE DESIGNATION	WIRE GAUGE
1	PKBRK	BLACK	1	16
2	AXL LK VLV	BLACK	2	16
3	2ND GEAR	BLACK	3	16
4	TRANS PRS	BLACK	4	16
5	LFT REAR	BLACK	5	16
6	RGT REAR	BLACK	6	16
7	CH GND-1	BLACK	7	16
8	LFT FRT/BLADE	BLACK	8	16
9	RGT FRT	BLACK	9	16
10	CH GND-2	YEL/GRN	(NONE)	16
11	PLUGGED	-	-	-
12	PLUGGED	-	-	-

PAD9270
PAD9280

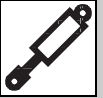


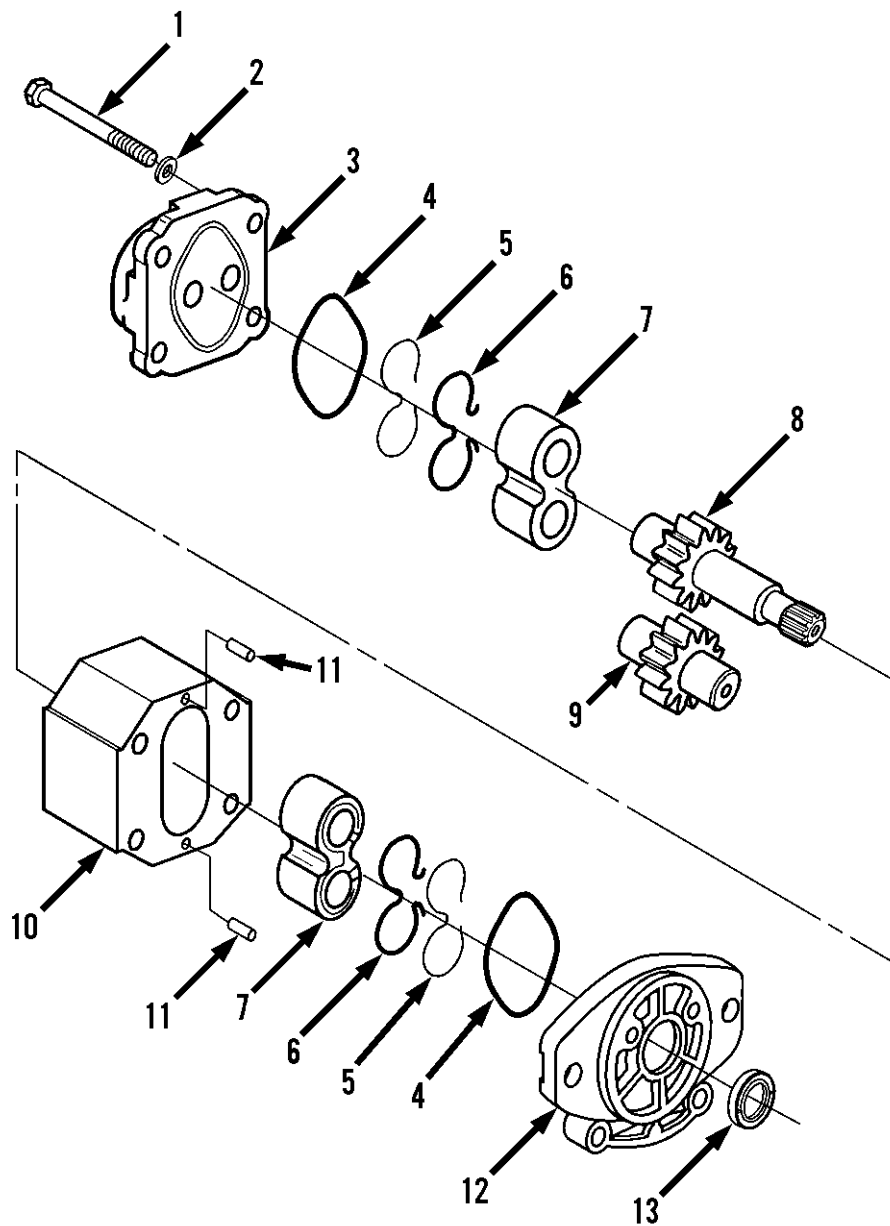
Figure 9-28 Center Pin

Item	Part Number	Qty.	Description	Rev.
	80333102	1	CENTER PIN, (includes all items)	
1	80214164	1	ELECTRIC CONNECTOR	
2	80334405	1	PLATE	
3		1	O-RING	
4		1	V-SEAL	
5	80334408	1	GROUND CABLE	
6	80334409	1	STUD	
7	80334410	1	HEX NUT	
8	80334411	2	CAPSCREW	
9	80334412	2	WASHER	
10	80334413	2	CAPSCREW	
11	80334414	1	SUB HOUSING	
12		2	RING	
13		5	RING	
14	80334417	2	CAPSCREW	
15	80234118	2	WASHER	
16	80334418	1	STABILIZER ARM	
17		1	O-RING	
18	80334420	1	PLATE	
19	80334421	1	HOUSING	
20		7	RING	
21		1	RING	
22		1	RING	
23	80214167	2	CAPSCREW	
24	80334425	1	INNER CENTER PIN	
25		1	RING	
26	80334426	1	MAIN CENTER PIN	
27	80334427	3	CAPSCREW	
28	80334428	6	PLUG	
29		1	RING	
30	80334430	1	SPACER	
31	88662193	2	HEX PLUG, (includes item 32)	
32	88591205	3	O-RING	
33	77363228	20	DEUTSCH PIN	
34	80363178	2	DEUTSCH DT04-12P RECEPTACLE	
35	77363230	4	DEUTSCH SEALING PLUG	
36	80363179	2	DEUTSCH W12P LOCKING WEDGE	
37	88662312	2	CONNECTOR, (includes item 38)	
38	88591207	2	O-RING	
39	88662301	7	CONNECTOR, (includes item 40)	
40	88591204	12	O-RING	
41	88662440	5	CONNECTOR, (includes item 40)	
42	88662302	1	CONNECTOR, (includes item 32)	
43	83681905	3"	HEAT SHRINK, 1/2	
44		23"	EXPANDABLE LOOM	
	80334404	1	SEAL KIT, (includes items 3, 4, 12, 13, 17, 20, 21, 22, 25 & 29)	



HYDRAULIC COMPONENTS

Figure 9-29 Gear Pump



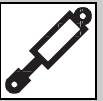


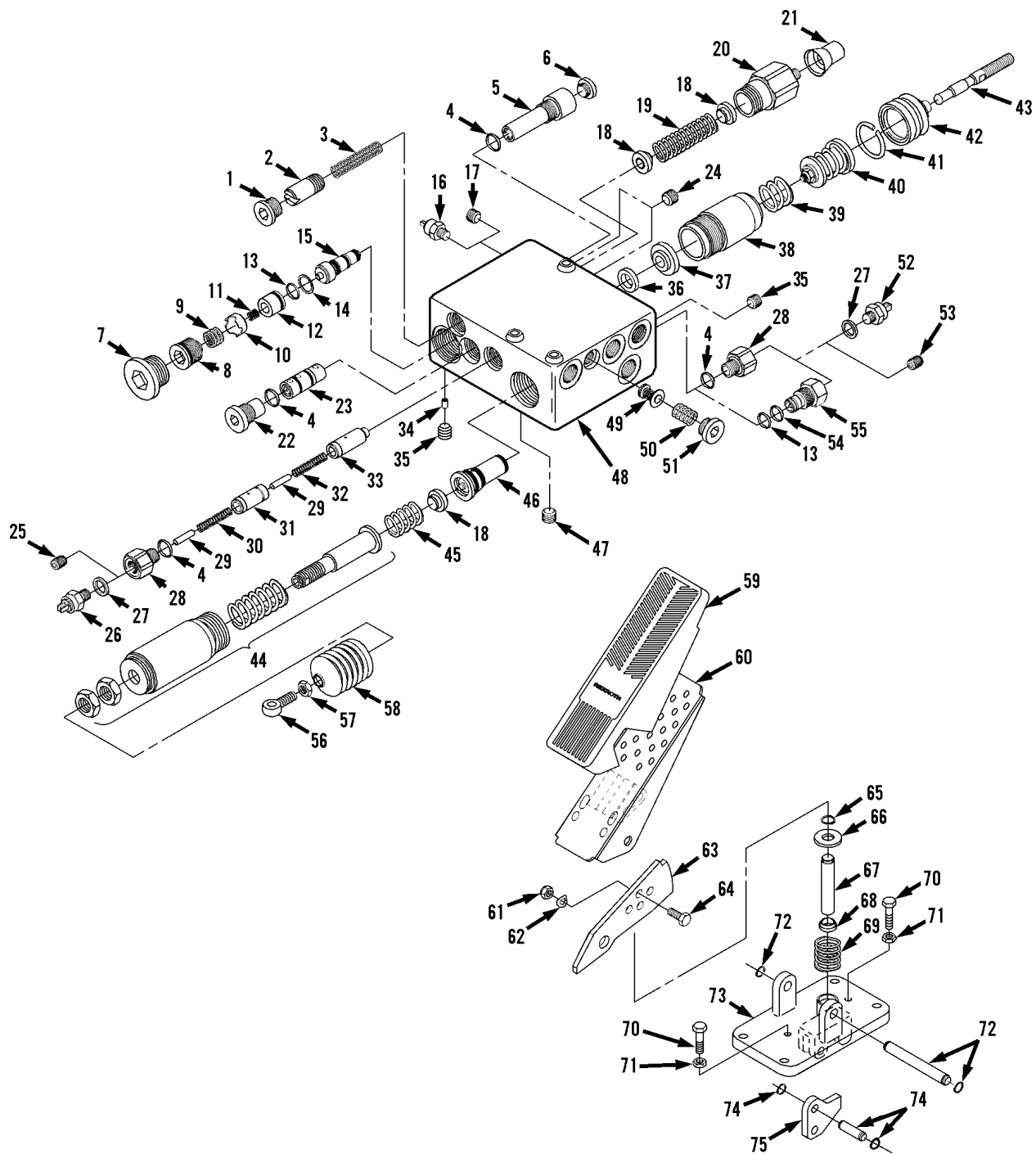
Figure 9-29 Gear Pump

Item	Part Number	Qty.	Description	Rev.
	80333188	1	GEAR PUMP, (includes all items)	
1	80334385	4	CAPSCREW	
2	80334386	4	WASHER	
3	80334387	1	REAR COVER	
4	80334388	2	SQUARE RING	
5	80334389	2	ANTI-EXTRUSION SEAL	
6	80334390	2	LOADING SEAL	
7	80334391	2	BEARING BLOCK	
8	80334392	1	DRIVE GEAR	
9	80334393	1	DRIVEN GEAR	
10	80334394	1	BODY	
11	80334395	2	DOWEL PIN	
12	80334396	1	FRONT COVER	
13	80334397	1	SHAFT SEAL	
	80334383	1	SEAL KIT, (includes items 4, 5, 6 & 13)	
	80334384	1	SEAL KIT, (includes items 4, 5, 6, 7 & 13)	



HYDRAULIC COMPONENTS

Figure 9-30 Foot Operated Pedal Valve & Brake Valve



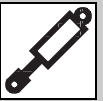


Figure 9-30 Foot Operated Pedal Valve & Brake Valve

Item	Part Number	Qty.	Description	Rev.
	80333103	1	BRAKE VALVE, (includes items 1 thru 58)	
	80333104	1	FOOT PEDAL, (includes items 59 thru 75)	
1	80334436	1	LOCKING SCREW	
2	80334437	1	SPOOL	
3	80334438	1	SPRING	
4		4	O-RING	
5	80334439	1	REDUCING PIECE	
6	80334440	1	LOCKING SCREW	
7	80334441	1	LOCKING SCREW	
8	80334442	1	RELIEF VALVE	
9	80334443	1	SPRING	
10	80334444	1	SPRING RETAINER	
11	80334445	1	SPRING	
12	80334446	1	SLEEVE	
13		2	O-RING	
14		1	THRUST RING	
15	80334447	1	SLEEVE	
16	80334448	1	PRESSURE SWITCH	
17		1	LOCKING SCREW	
18	80334449	3	SPRING RETAINER	
19	80334450	1	SPRING, (small)	
	80334451	1	SPRING, (large)	
20	80334452	1	SLEEVE	
21	80334453	1	CAP	
22	80334454	1	LOCKING SCREW	
23	80334455	1	VALVE	
24		2	LOCKING SCREW	
25		1	LOCKING SCREW	
26	80334456	1	PRESSURE SWITCH	
27	80334457	2	SEALING RING	
28	80334458	2	REDUCING PIECE	
29	80334459	2	PIN	
30	80334460	1	SPRING	
31		1	SPOOL	
32	80334461	1	SPRING	
33		1	SPOOL	
34		1	SELF LOCKING PIN	
35		2	LOCKING SCREW	
36		1	SHAFT SEAL	
37	80334462	1	WASHER	
38	80334463	1	TUBE	
39	80334464	1	SPRING	
40	80334465	1	THERMAL ELEMENT	
41	80334466	1	SNAP RING	
42	80334467	1	BELLOW	
43	80334468	1	LEVER	
44	80334469	1	OPERATION	
45	80334470	1	SPRING	
46	80334471	1	SLEEVE	



HYDRAULIC COMPONENTS

Figure 9-30 Foot Operated Pedal Valve & Brake Valve (Continued)

Item	Part Number	Qty.	Description	Rev.
47		1	LOCKING SCREW	
48		1	HOUSING	
49	80334472	1	CHECK VALVE	
50	80334473	1	SPRING	
51	91404063	1	LOCKING SCREW	
52	80334474	1	PRESSURE SWITCH	
53	80334475	1	LOCKING SCREW	
54		1	SHAFT SEAL	
55	80334476	1	REDUCING PIECE	
56	80334477	1	RETAINING RING	
57		1	HEX NUT	
58		1	BELLOW	
59	80334478	1	PLATE	
60	80334479	1	PLATE	
61		1	HEX NUT	
62		1	WASHER	
63	80334480	1	SEGMENT	
64		1	HEX HD CAPSCREW	
65		1	RETAINING RING	
66	80334481	1	SPRING RETAINER	
67	80334482	1	SHAFT	
68	80334483	1	SCRAPER RING	
69	80334484	1	SPRING	
70		2	HEX HD CAPSCREW	
71		2	HEX NUT	
72	80334485	1	BOLT	
73	80334486	1	PLATE	
74	80334487	1	BOLT	
75	80334488	1	PLATE	
	80334614	1	SEAL KIT, (includes items 4, 13, 14, 21, 36 & 42)	

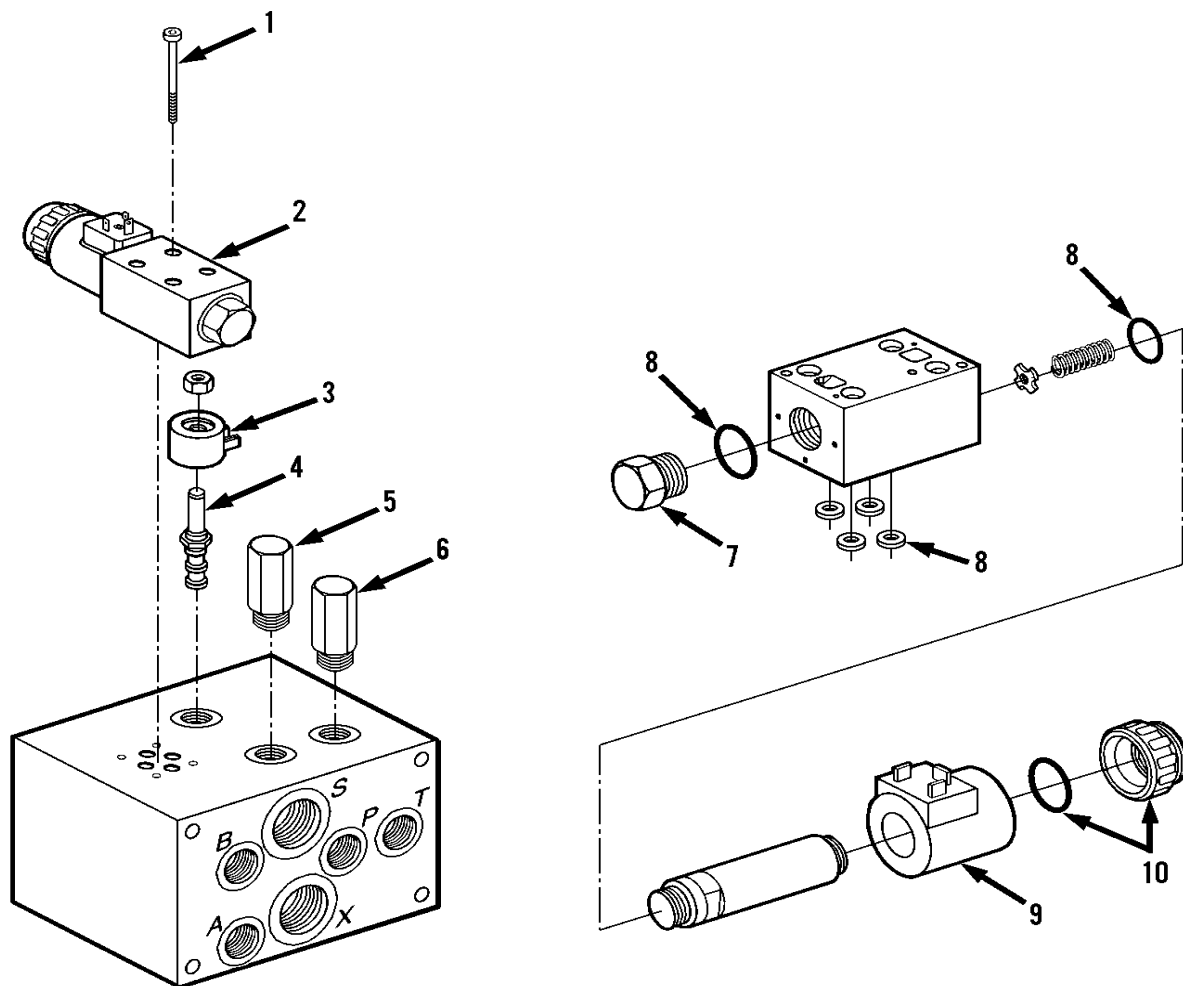
Figure 9-30 Foot Operated Pedal Valve & Brake Valve (Continued)

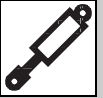
Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-31 Transmission Control Valve



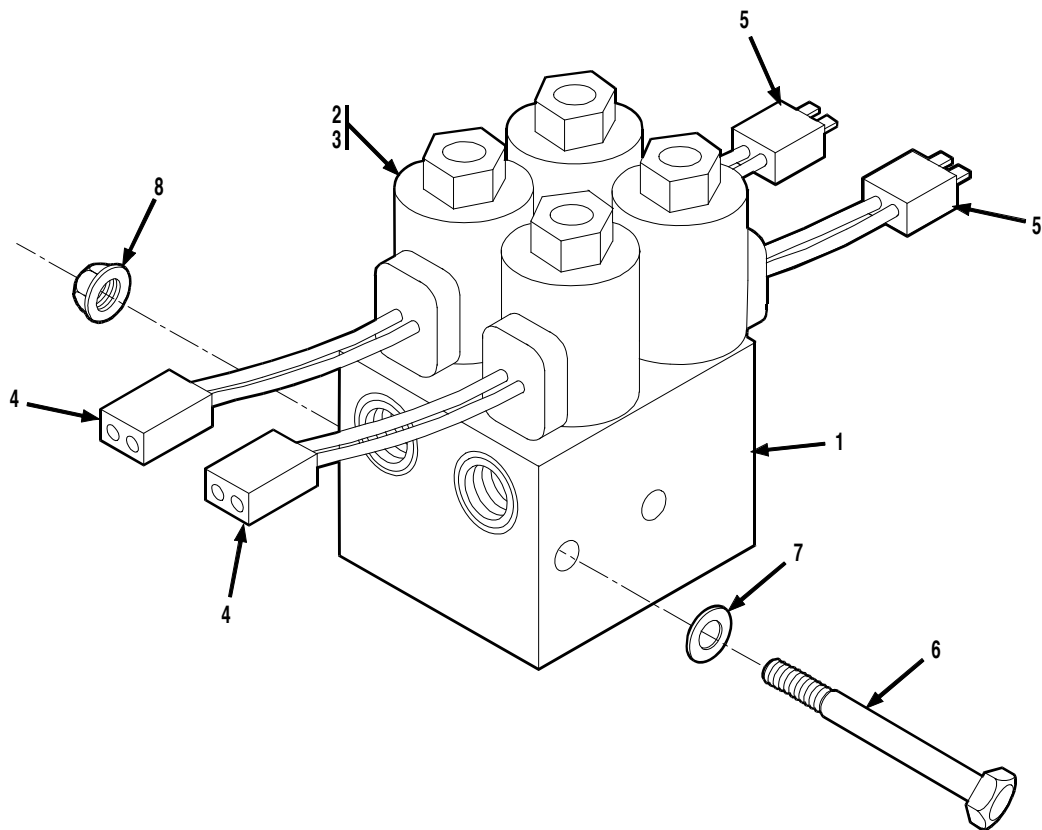
**Figure 9-31 Transmission Control Valve**

Item	Part Number	Qty.	Description	Rev.
	80333109	1	TRANSMISSION CONTROL VALVE, (includes all items)	
1	80334376	4	CAPSCREW	
2	80334377	1	SOLENOID	
3	80334091	1	COIL, (12v)	
4	80334092	1	SOLENOID VALVE	
5	80334098	1	CHECK VALVE	
6	80334378	1	PRESSURE RELIEF VALVE	
7	80334379	1	NUT	
8	80334380	1	SEAL KIT	
9	80334381	1	COIL	
10	80334382	1	HAND NUT w/SEAL	



HYDRAULIC COMPONENTS

Figure 9-32 Outrigger Selector Valve



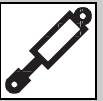


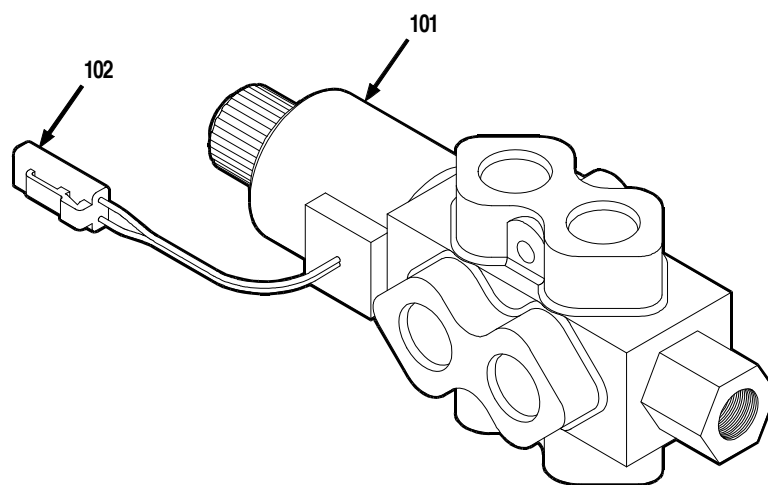
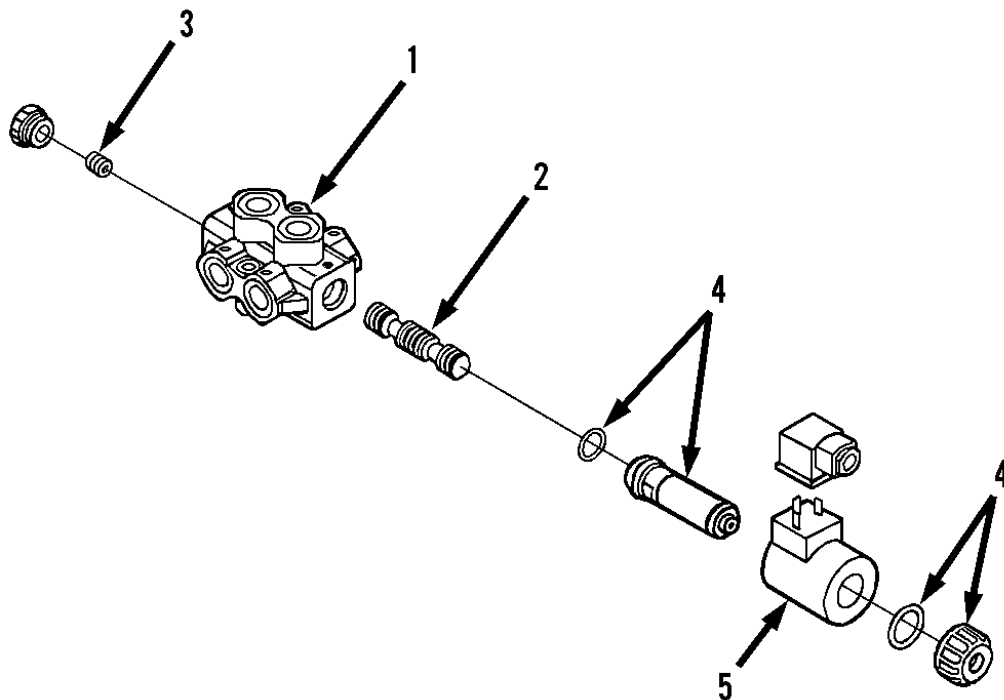
Figure 9-32 Outrigger Selector Valve

Item	Part Number	Qty.	Description	Rev.
	80333115	1	OUTRIGGER SELECTOR VALVE, (includes items 1 thru 5)	
1		1	VALVE BLOCK	
2	80334511	4	SOLENOID	
	91204190	AR	SOLENOID SEAL KIT	
3	80334510	4	COIL	
4	80963058	2	WEATHER PACK SHROUD	
5	80963057	2	WEATHER PACK TOWER	
6	91083340	2	HEX HD CAPSCREW, 5/16-18X4-1/2	
7	88561003	2	FLAT WASHER, 5/16	
8	77143006	2	WHIZ-LOK NUT, 5/16-18	
	80334513	AR	SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-33 Six-Way Diverter Valve



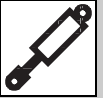


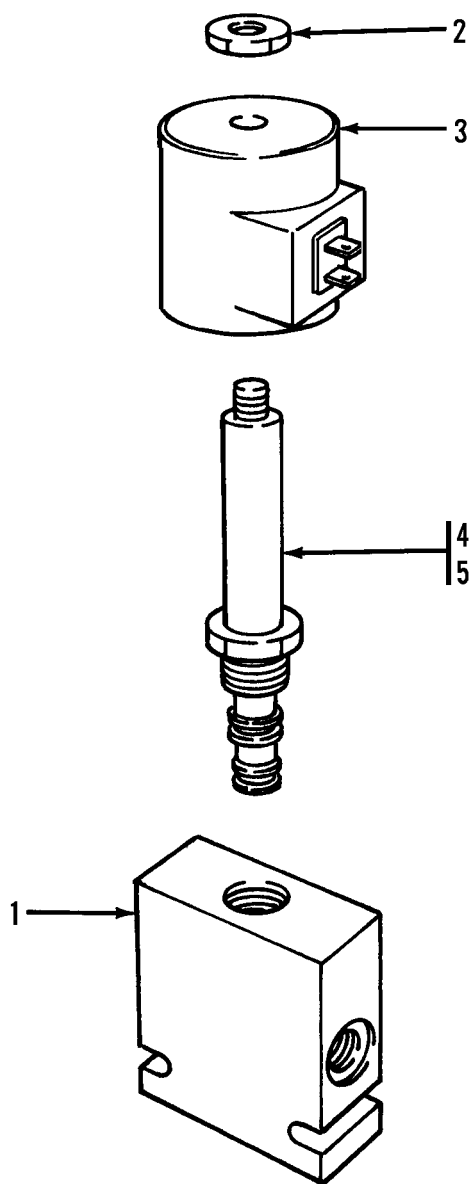
Figure 9-33 Six-Way Diverter Valve

Item	Part Number	Qty.	Description	Rev.
	80333181	1	SIX-WAY DIVERTER VALVE, (includes items 1 thru 5), (S/N 0339301 thru 0335343 & 0330639 thru 0330656)	C
1	80334514	1	VALVE BODY	
2	80334515	1	SPOOL	
3	80334516	1	ADAPTER	
4	80334517	1	TUBE ASSY	
5	80334518	1	COIL ASSY	
	80433226	1	SIX-WAY DIVERTER VALVE, (includes item 101 thru 102), (S/N 0330657 thru 0330665, 0210017446 thru 0210018092 & 3300000666 & After)	1
101	80434235	1	COIL, (includes item 102)	
102	VA603084	1	CONNECTOR	

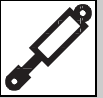


HYDRAULIC COMPONENTS

Figure 9-34 Solenoid Valve



THIS SOLENOID VALVE IS USED IN
THE FOLLOWING ASSEMBLIES:
-DIG BRAKE VALVE
-JOYSTICK ANTI-DRIFT VALVE
-SWING ANTI-DRIFT
VALVE

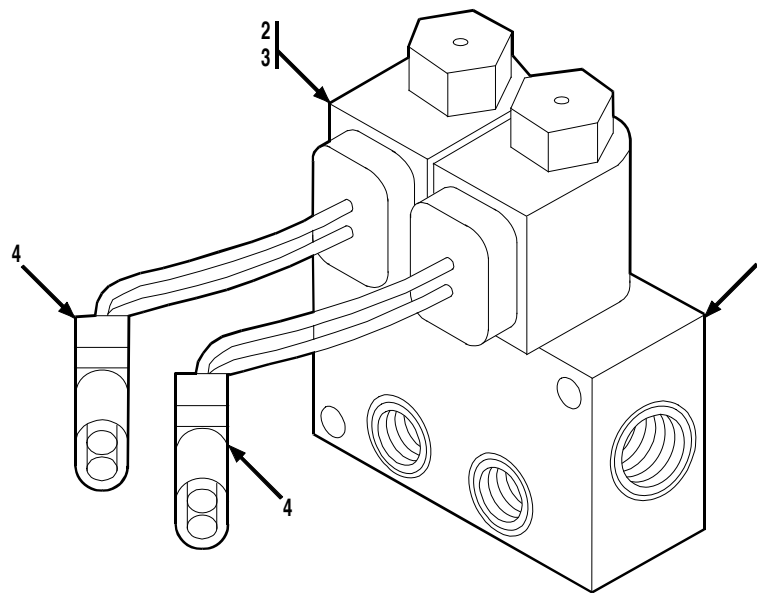
**Figure 9-34 Solenoid Valve**

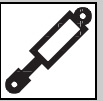
Item	Part Number	Qty.	Description	Rev.
	80933050	1	SOLENOID VALVE, (includes all items)	
1	80934035	1	VALVE BODY	
2	80934036	1	HEX NUT	
3	80934037	1	COIL, 12 VDC	
4	80934038	1	CARTRIDGE	
5	80934039	1	CARTRIDGE SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-35 Duel Solenoid Valve



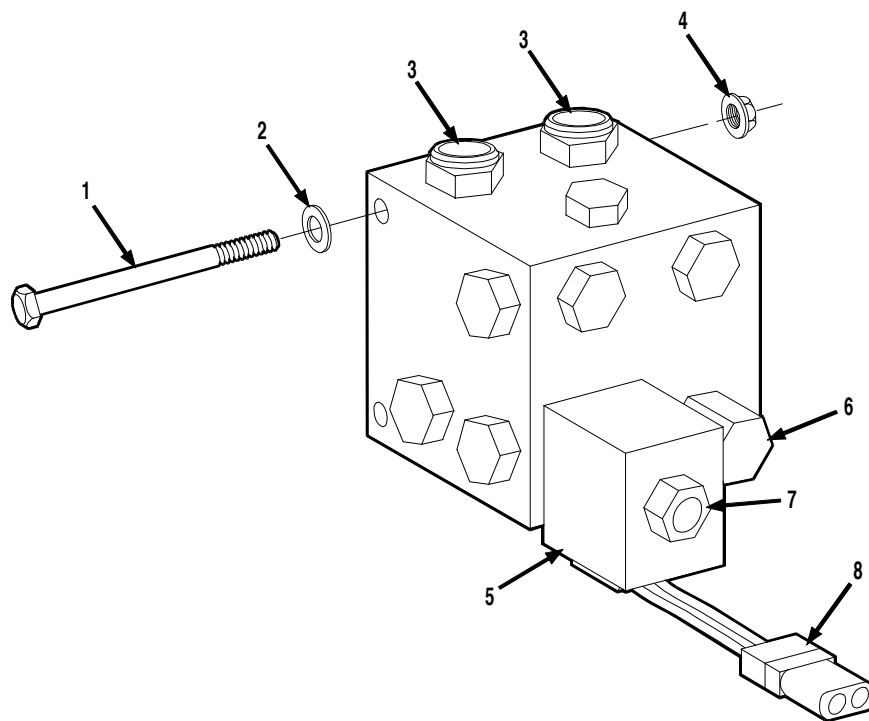
**Figure 9-35 Duel Solenoid Valve**

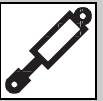
Item	Part Number	Qty.	Description	Rev.
	80333099	1	DUAL SOLENOID VALVE, (includes all items)	
1		1	VALVE BLOCK	
2	80334222	2	SOLENOID	
3	80334223	2	COIL	
4	80963060	2	WEATHER-PAK SHROUD	



HYDRAULIC COMPONENTS

Figure 9-36 Oscillation/Cylinder Anti-Drift Valve



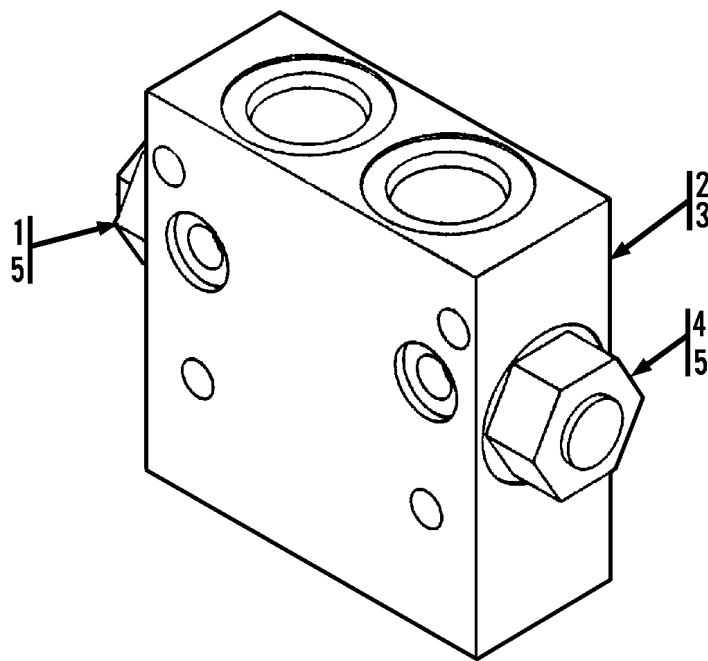
**Figure 9-36 Oscillation/Cylinder Anti-Drift Valve**

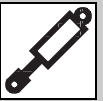
Item	Part Number	Qty.	Description	Rev.
	80333114	1	OSCILLATION ANTI-DRIFT VALVE, (includes items 1 thru 7)	
1	91083340	2	HEX HD CAPSCREW, 5/16-18X4-1/2	
2	88561003	2	FLAT WASHER	
3	77364159	2	CHECK VALVE ASSY	
4	77143006	2	WHIZ-LOK NUT	
5	80334223	1	COIL	
6	80334521	1	THERMAL RELIEF CARTRIDGE	
7	80334520	1	SOLENOID VALVE	
8	80963058	1	WEATHER-PAK SHROUD	



HYDRAULIC COMPONENTS

Figure 9-37 Outrigger Valve Block



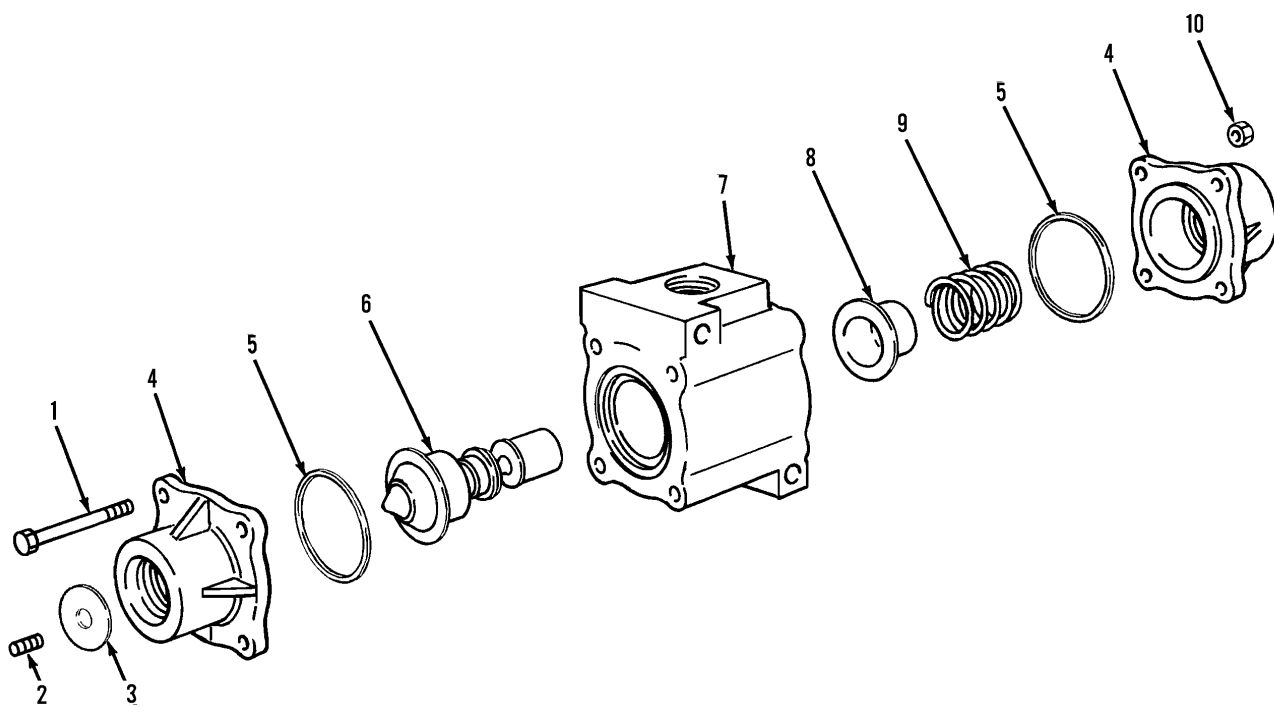
**Figure 9-37 Outrigger Valve Block**

Item	Part Number	Qty.	Description	Rev.
	80003700	2	OUTRIGGER VALVE BLOCK, (includes all items)	
1	80004031	1	CHECK VALVE CARTRIDGE w/THERMAL, (torque to 25-33 lb-ft)	
2	80004029	1	VALVE BODY	
3	80004030	1	PISTON, (not shown)	
4	80303074	1	CHECK VALVE CARTRIDGE, (torque to 25-33 lb-ft)	
5	80304473	2	CHECK VALVE CARTRIDGE SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-38 Thermal By-Pass Valve



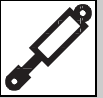


Figure 9-38 Thermal By-Pass Valve

Item	Part Number	Qty.	Description	Rev.
	80233103	1	THERMAL BY-PASS VALVE, (includes all items)	
1	80974006	4	HEX HD CAPSCREW	
2	80234134	1	SET SCREW	
3	80234135	1	WASHER	
4	80974007	2	FITTING	
5	80974008	2	SEAL	
6		1	THERMAL ELEMENT ASSY	
7	80974010	1	VALVE BODY	
8	80974011	1	SEAL ASSY	
9	80974012	1	SPRING	
10	80974013	4	HEX LOCKNUT	
	80974021	1	ELEMENT KIT, (includes items 3, 4 & 6)	



Figure 9-39 Propel Pilot Valve



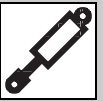
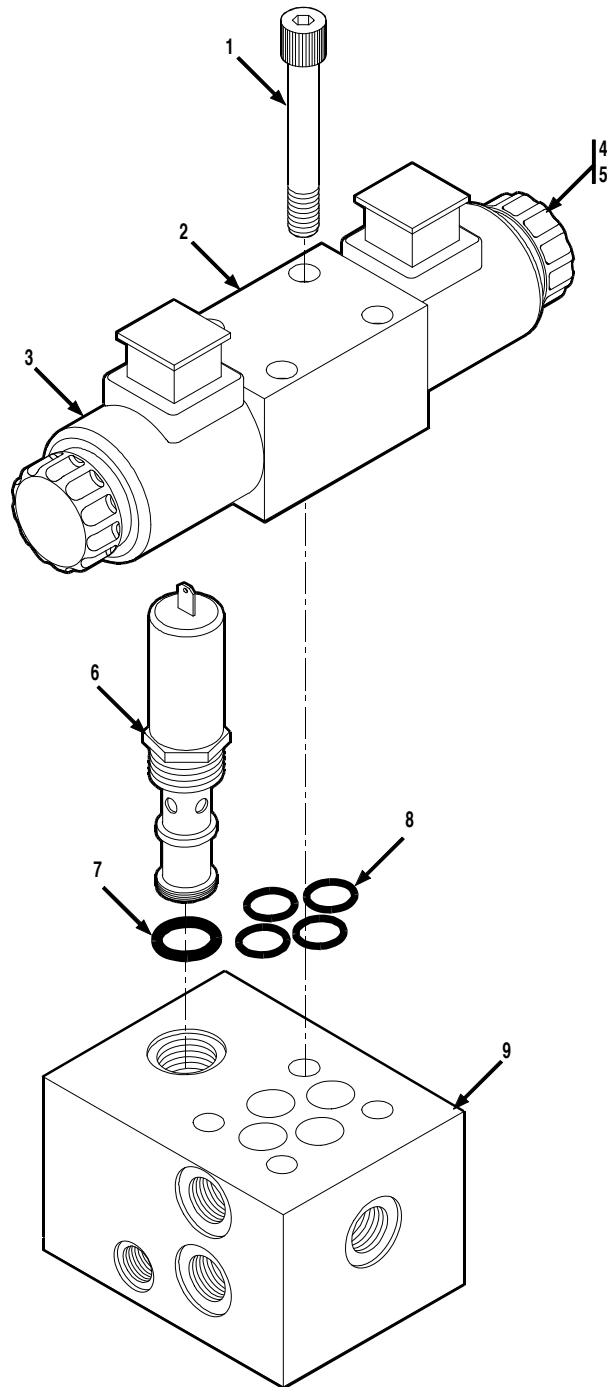


Figure 9-39 Propel Pilot Valve

Item	Part Number	Qty.	Description	Rev.
	80333140	1	PROPEL PILOT VALVE, (includes all items)	
1	80334093	1	CARTRIDGE	
2	80334398	1	SOLENOID	
3	80334399	4	CAPSCREW	
4	80334400	1	MANIFOLD BLOCK	
5	80334401	1	SEAL KIT	
6	80334402	2	HAND NUT w/SEALS	
7	80334403	2	COIL, (12V)	



Figure 9-39 Propel Pilot Valve



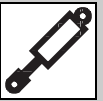


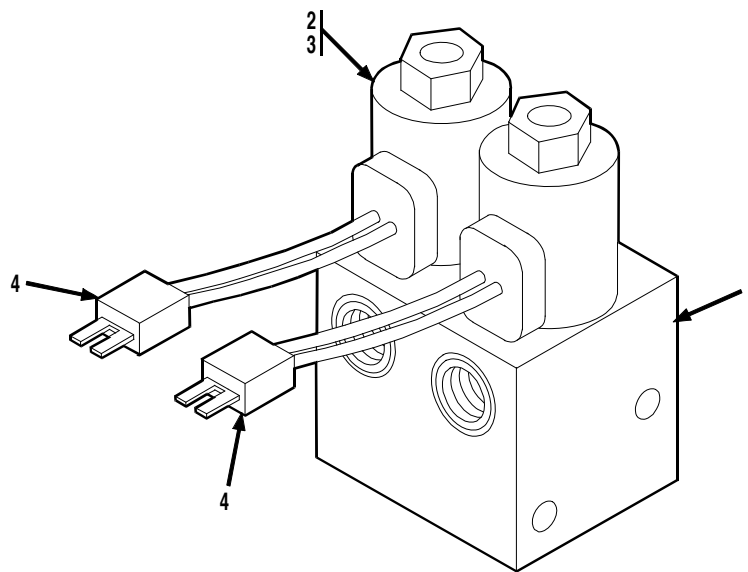
Figure 9-39 Propel Pilot Valve

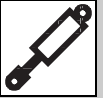
Item	Part Number	Qty.	Description	Rev.
	80333250	1	PROPEL PILOT VALVE, (includes all items)	
1	88211036	4	SOCKET HD CAPSCREW, #10-24X2, GR8	
2	80334627		CONTROL VALVE, (includes items 3, 4 & 5)	
3	80334628		COIL, 12 V, D.C.	
4	80334629		NUT, (includes item 5)	
5			O-RING	
6	80434162	1	CARTRIDGE, (includes item 7)	
7		1	O-RING	
8		1	VALVE BLOCK, (not available separately)	



HYDRAULIC COMPONENTS

Figure 9-40 Blade Selector Valve



**Figure 9-40 Blade Selector Valve**

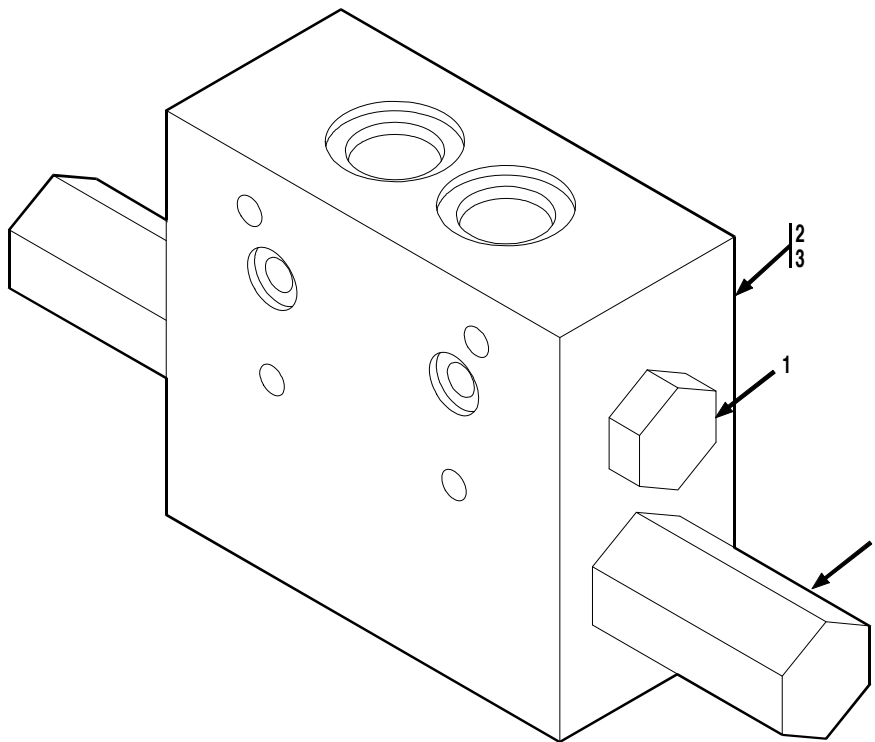
Item	Part Number	Qty.	Description	Rev.
	80333116	1	BLADE SELECTOR VALVE, (includes all items)	
1		1	VALVE BLOCK	
2	80334511	2	SOLENOID	
	91204190	1	SOLENOID SEAL KIT	
3	80334510	2	COIL	
4	80963057	2	WEATHER-PAK TOWER	
	80334512	1	SEAL KIT	

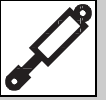


HYDRAULIC COMPONENTS

Figure 9-41 Blade Valve Block

DUE TO CHANGE OF VALVE, MACHINES BEFORE S/N 0337328 MUST
ORDER BLADE REWORK KIT, 80355014, SEE FIGURE 12-10.



**Figure 9-41 Blade Valve Block**

Item	Part Number	Qty.	Description	Rev.
	80003743	2	BLADE VALVE BLOCK, (includes all items)	
1	91204198	2	CHECK VALVE CARTRIDGE w/THERMAL	
2		1	VALVE BODY	
3	80004030	1	PISTON, (not shown)	
4	80934002	2	RELIEF VALVE ASSY	
	91204190	1	SEAL KIT	

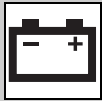


HYDRAULIC COMPONENTS

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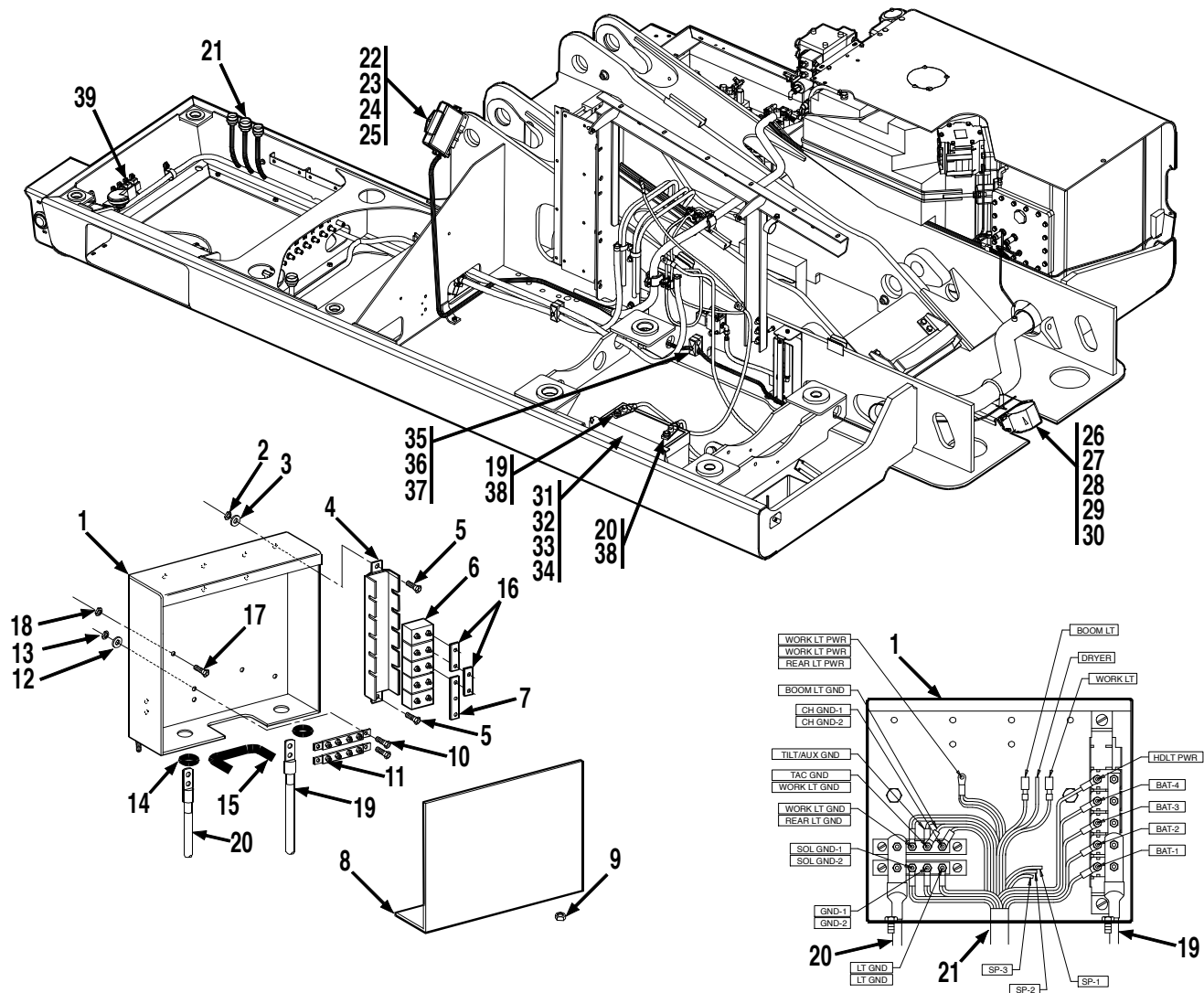
SECTION 10 ELECTRICAL





ELECTRICAL

Figure 10-1 Batteries & Misc. Electrical Components



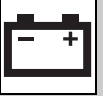
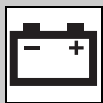


Figure 10-1 Batteries & Misc. Electrical Components

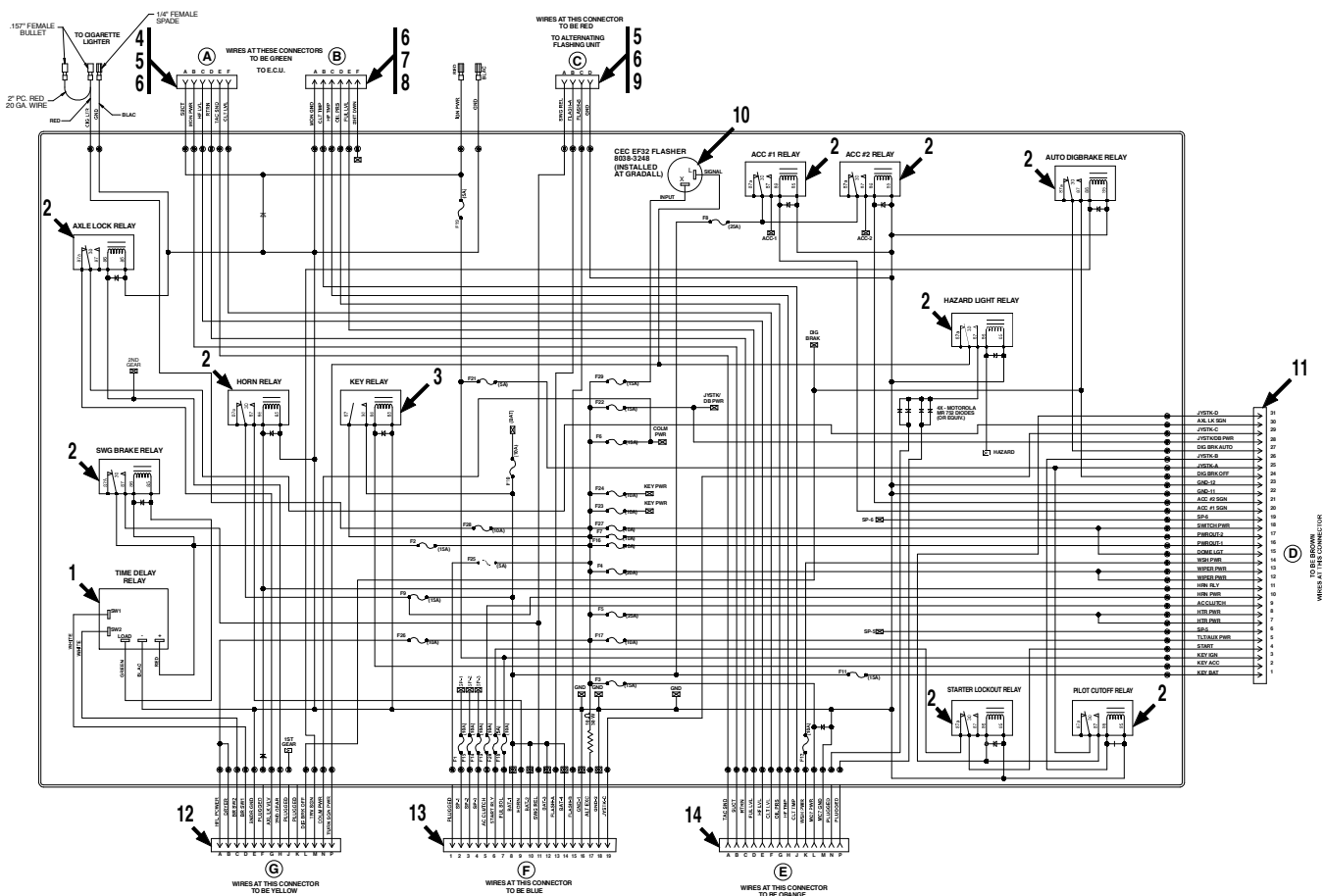
Item	Part Number	Qty.	Description	Rev.
	80365022	1	POWER BOX ASSY, (includes items 1 thru 16)	
1	80361045	1	POWER BOX	
2	88501004	2	HEX NUT, 1/4-20	
3	88551009	2	LOCKWASHER, 1/4	
4	83683029	1	CIRCUIT BREAKER BRACKET	
5	88301123	2	ROUND HD MACHINE SCREW, 1/4-20X1/2	
6	86983041	3	CIRCUIT BREAKER, 20 AMP	
7	86981178	1	BUSS BAR, (3 hole)	
8	80361046	1	POWER BOX COVER	
9	77143013	2	WHIZ-LOK NUT, 1/4-20	
10	88301092	4	ROUND HD MACHINE SCREW, #10-24X5/8	
11	83683132	2	TERMINAL BLOCK	
12	88551007	4	LOCKWASHER, #10	
13	88501612	4	HEX NUT, #10-24	
14	86961044	2	GROMMET	
15		AR	FLEX GUARD	
16	86981272	2	BUSS BAR, (2 hole)	
17	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
18	77143015	2	WHIZ-LOK NUT, 3/8-16	
19	80373026	1	NEGATIVE BATTERY CABLE	
20	80373114	1	POSITIVE BATTERY CABLE	
21	80363115	1	UPPER HARNESS, (Before S/N 0330657)	
	80363214	1	UPPER HARNESS, (S/N 0330657 & After)	
22	80363138	1	MC7 ELECTRICAL CONTROLLER	
23	88201001	1	HEX HD CAPSCREW, 1/4-20X1/2, GR5	
24	88201011	2	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	
25	88551009	3	LOCKWASHER, 1/4	
26	91143357	1	HORN	
27	91403420	1	TRAVEL ALARM	
28	88201020	2	HEX HD CAPSCREW, 5/16-18X1, GR5	
29	80341141	1	ALARM BRACKET	
30	77143003	2	WHIZ-LOK SCREW, 5/16-18X5/8	
31		1	BATTERY, (purchase locally)	
32	80271033	1	BATTERY HOLD-DOWN	
33	91081640	2	HOLD-DOWN STUD	
34	77143006	2	WHIZ-LOK NUT, 5/16-18	
35	77323029	1	CLAMP SET, 7/8	
36	77133137	1	COVER PLATE	
37	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
38	77383567	2	STAINLESS STEEL NUT	
39	77143013	4	WHIZ-LOK NUT, 1/4-20	



ELECTRICAL

Before S/N 3300000668

Figure 10-2 Circuit Board



FUSE#	AMP	DESIGNATION
F1	10A	SP-1 (OPTION)
F2	15A	SWING BRAKE RELEASE
F3	15A	MICROPROCESSOR POWER
F4	20A	WIPER POWER
F5	25A	HEATER POWER
F6	15A	COLUMN POWER
F7	10A	POWER OUTLET #2
F8	25A	ACCESSORY RELAY POWER
F9	15A	HORN POWER
F10	10A	BATTERY POWER
F11	15A	KEY SWITCH
F12	10A	WASHER POWER
F13	10A	A.C. CLUTCH
F14	10A	SP-3 (OPTION)
F15	10A	SP-2 (OPTION)
F16	10A	POWER OUTLET #1
F17	10A	TILT/AUX POWER
F18	10A	FUEL SOLENOID
F19	5A	EMU/HOURMETER POWER
F20	5A	STARTER RELAY
F21	5A	JOYSTICK PILOT CUTOFF
F22	15A	JOYSTICK/DIGIBRAKE POWER
F23	10A	SPARE ACCESSORY POWER
F24	10A	SPARE ACCESSORY POWER
F25	5A	TRAVEL ALARM
F26	10A	AIR DRYER/HYD LEVEL SENDER
F27	10A	SWITCH/DOME LIGHT POWER
F28	10A	CIGARETTE LIGHTER
F29	15A	TURN SIGNAL POWER

PAD9450
PAD9460

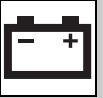
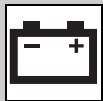


Figure 10-2 Circuit Board

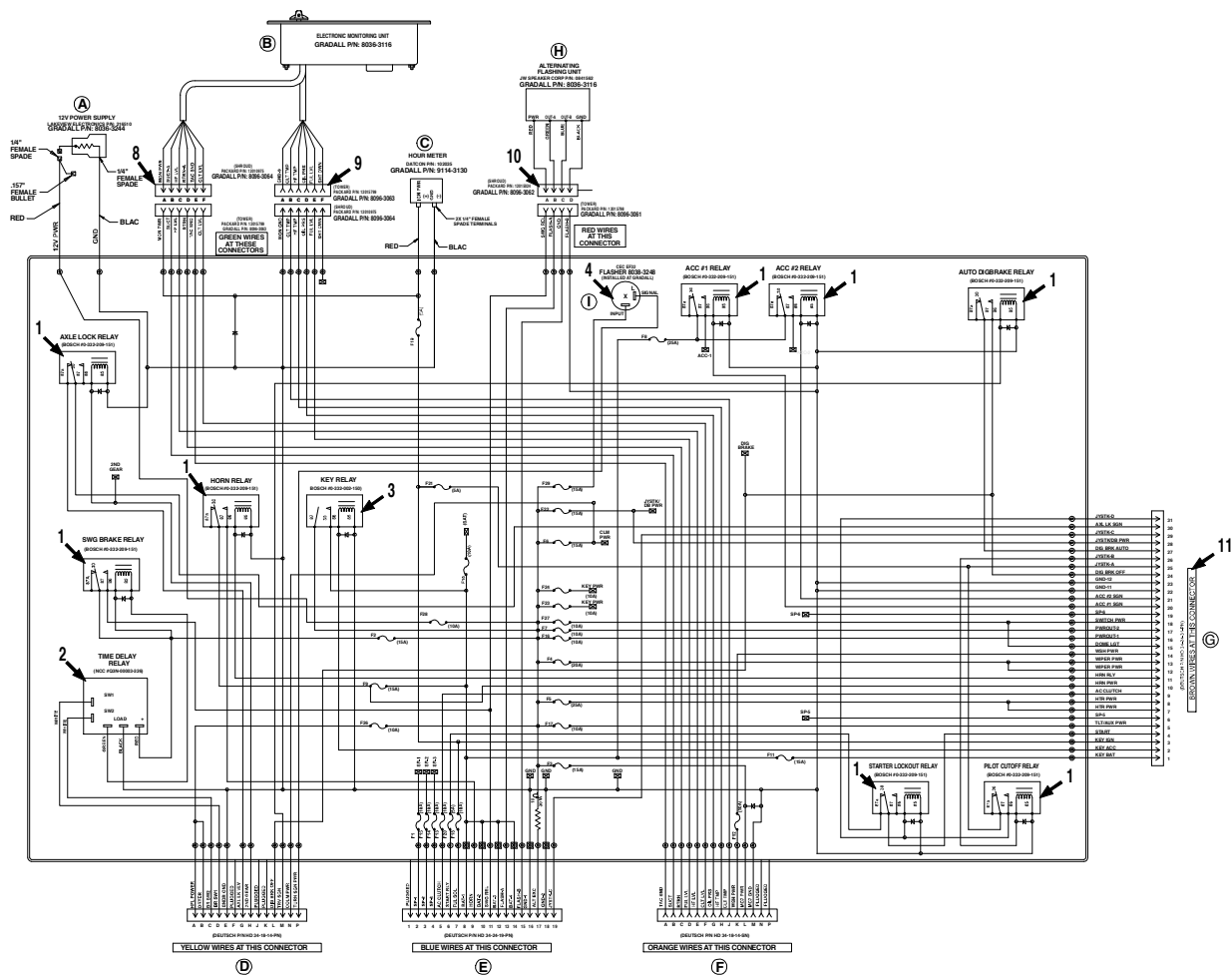
Item	Part Number	Qty.	Description	Rev.
1	80263041	1	RELAY	
2	77363265	9	RELAY	
3	77383377	1	RELAY	
4	80963063	1	TOWER	
5	80963068	2	FEMALE PIN TERMINAL	
6	80963066	AR	CABLE SEAL GRAY	
7	80963064	1	SHROUD	
8	80963069	1	MALE PIN TERMINAL	
9	80963061	1	TOWER	
10	80383248	1	FLASHER RELAY	
11	80364172	1	CONNECTOR	
12	77363225	1	RECEPTACLE	
13	80204286	1	CONNECTOR	
14	80204288	1	CONNECTOR	



ELECTRICAL

S/N 3300000668 & After

Figure 10-2 Circuit Board



FUSE#	AMP	DESIGNATION
F1	10A	SP-1 (OPTION)
F2	15A	SWING BRAKE RELEASE
F3	15A	MICROPROCESSOR POWER
F4	20A	WIPER POWER
F5	25A	HEATER POWER
F6	15A	COLUMN POWER
F7	10A	POWER OUTLET #2
F8	25A	ACCESSORY RELAY POWER
F9	15A	HORN POWER
F10	10A	BATTERY POWER
F11	15A	KEY SWITCH
F12	10A	WASHER POWER
F13	10A	A.C. CLUTCH
F14	10A	SP-3 (OPTION)
F15	10A	SP-2 (OPTION)
F16	10A	POWER OUTLET #1
F17	10A	TILT/AUX POWER
F18	10A	FUEL SOLENOID
F19	5A	EMU/HOURMETER POWER
F20	5A	STARTER RELAY
F21	5A	JOYSTICK PILOT CUTOFF
F22	15A	JOYSTICK/DIGBRAKE POWER
F23	10A	SPARE ACCESSORY POWER
F24	10A	SPARE ACCESSORY POWER
F26	10A	AIR DRYER/HYD LEVEL SENDER
F27	10A	SWITCH/DOME LIGHT POWER
F28	10A	12V POWER SUPPLY
F29	15A	TURN SIGNAL POWER

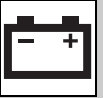
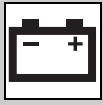


Figure 10-2 Circuit Board

Item	Part Number	Qty.	Description	Rev.
	80363243	1	PRINTED CIRCUIT BOARD	
1	77363265	10	RELAY	
2	80263041	1	RELAY	
3	77383377	1	RELAY	
4	80383248	1	SOCKET	
5	77363225	1	CONNECTOR	
6	80204286	1	CONNECTOR	
7	80204288	1	CONNECTOR	
8	80963063	1	TOWER	
9	80963064	1	SHROUD	
10	80963061	1	TOWER	
11	80364172	1	CONNECTOR	

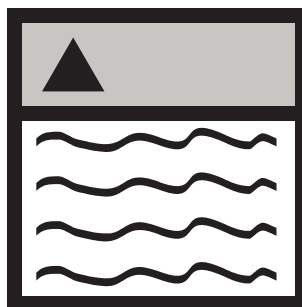


ELECTRICAL

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SECTION 11

DECALS





DECALS

Figure 11-1 Decals

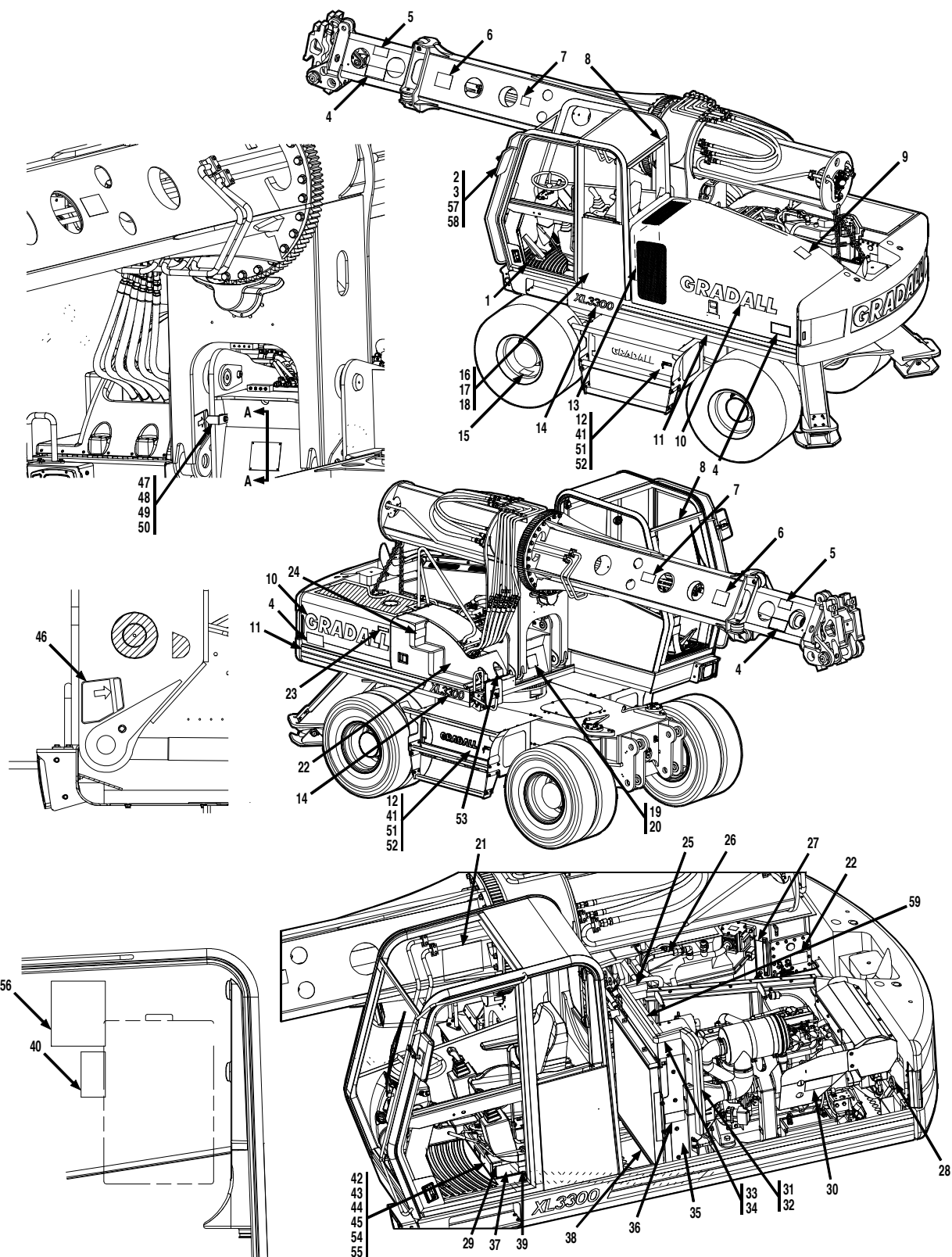




Figure 11-1 Decals

Item	Part Number	Qty.	Description	Rev.
1	80363163	1	FLOOR MAT	
2	80263052	1	MIRROR MOUNT, (requires item 3), (Before S/N 0330647 including 0330648)	
3	80263054	1	MIRROR, (requires item 2), (Before S/N 0330647 including 0330648)	
4	80603039	4	SWING WARNING DECAL	
5	80903017	2	NO RIDERS WARNING DECAL	
6	80333235	2	DANGER DECAL	
7	80603037	2	PINCH POINT WARNING DECAL	
8	80373066	2	REFLECTIVE STRIPE	
9	80373077	1	NO STEP DECAL	
10	80373065	2	LARGE GRADALL DECAL	
11	80373104	2	SIDE STRIPE DECAL	
12	80963307	8	PLUG	
13	80313032	1	LUBE/MAINTENANCE DECAL	
14	80373103	2	MODEL XL3300 DECAL	
15	80203009	4	TIRE PRESSURE DECAL	
16		Ref	TOOL KIT, (see Recommended Spare Parts)	
17	33004001	1	PARTS MANUAL	
18	33004006	1	SERVICE MANUAL	
19	77333047	1	SERIAL PLATE	
20	88341012	4	DRIVE SCREW, #4X5/16	
21	80363172	1	SAE OPERATING DECAL	
22	80903012	2	HYDRAULIC WARNING DECAL	
23	80213104	1	DIESEL FUEL DECAL	
24	80603036	1	NO CLIMBING WARNING DECAL	
25	80373127	1	INSIDE FOAM	
26	91143288	1	HYDRAULIC DECAL	
27	80313019	1	RESERVOIR FILL DECAL	
28	85041356	1	BUCKET WRENCH	
29	80363155	1	MANUAL DECAL	
30	77363358	1	BATTERY WARNING DECAL	
31	80373121	1	SIDE FOAM	
32	80373122	1	SIDE FOAM	
33	80373123	1	TOP FOAM	
34	80373124	1	TOP FOAM	
35	80373038	1	SIDE FOAM BLOCK	
36	80603038	1	WARNING DECAL	
37	80603036	2	CLIMBING WARNING DECAL	
38	80373037	1	BOTTOM FOAM BLOCK	
39	77333027	1	MADE IN USA DECAL	
40	80913074	1	WARNING DECAL	
41	80303066	2	TOOLBOX ASSY, (includes the following items)	
	80303068	2	LATCH	
	80964051	2	LATCH KEY	
42	33004005	1	OWNER/OPERATOR MANUAL	
43	80373102	1	DEERE ENGINE MANUAL	
44	80603007	1	EMI SAFETY MANUAL	
45	24604161	1	SAFETY MANUAL	
46	80313034	1	XL3300 BOOM DECAL	
47	80341139	1	INDICATOR	



DECALS

Figure 11-1 Decals (Continued)

Item	Part Number	Qty.	Description	Rev.
48	88201031	1	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
49	88551011	1	LOCKWASHER, 3/8	
50	88561004	1	FLAT WASHER, 3/8	
51	80973025	8	WHIZ-LOK SCREW, 3/8-16X1	
52	77143015	8	WHIZ-LOK NUT, 3/8-16	
53	80363187	2	HOLE PLUG	
54	80363112	1	GRADALL OPERATING DECAL	
55	80363113	1	DEERE OPERATING DECAL	
56	80333186	1	LIFT CAPACITY DECAL	
57	80363197	1	MIRROR MOUNT, (requires item 58), (S/N 0330647 & After excluding 0330648)	
58	80363195	1	MIRROR, (requires item 57), (S/N 0330647 & After excluding 0330648)	
59	80603026	1	WARNING DECAL	



Figure 11-1 Decals (Continued)

Item	Part Number	Qty.	Description	Rev.



DECALS

Figure 11-2 CE Decals

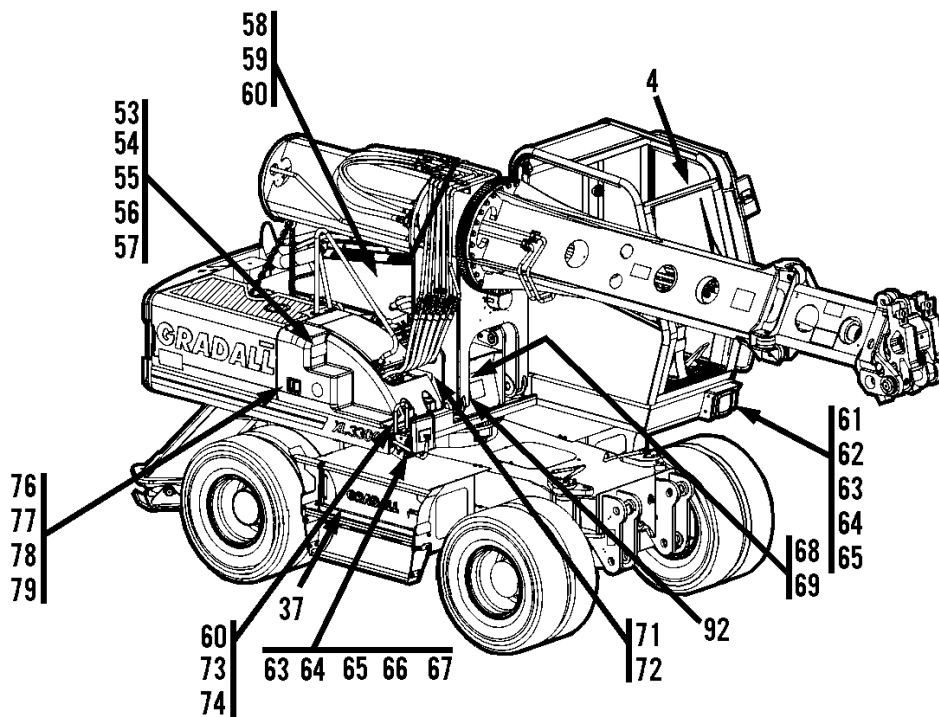
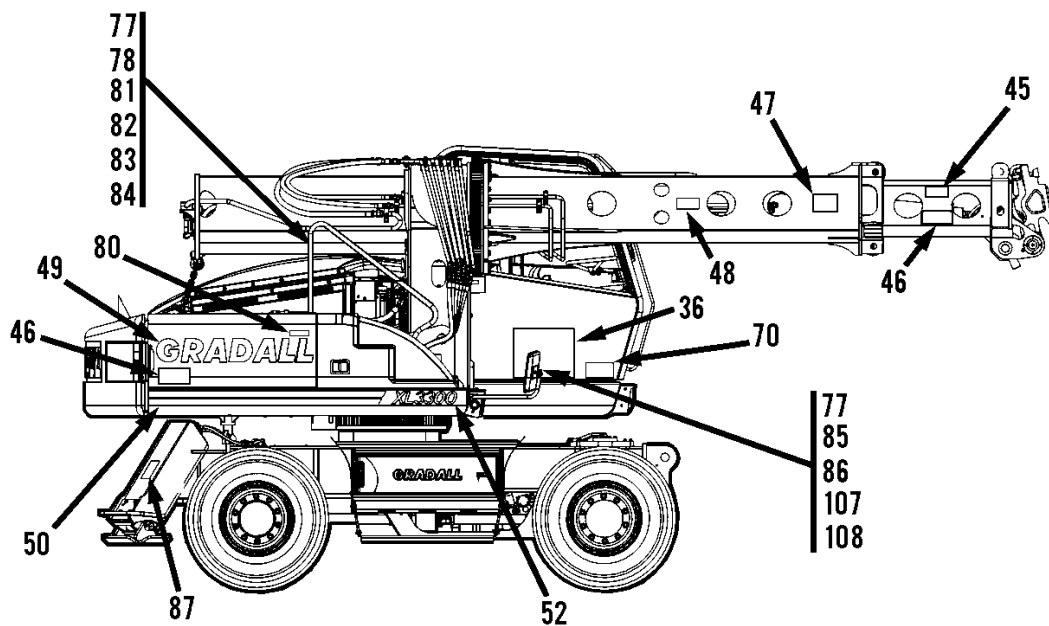
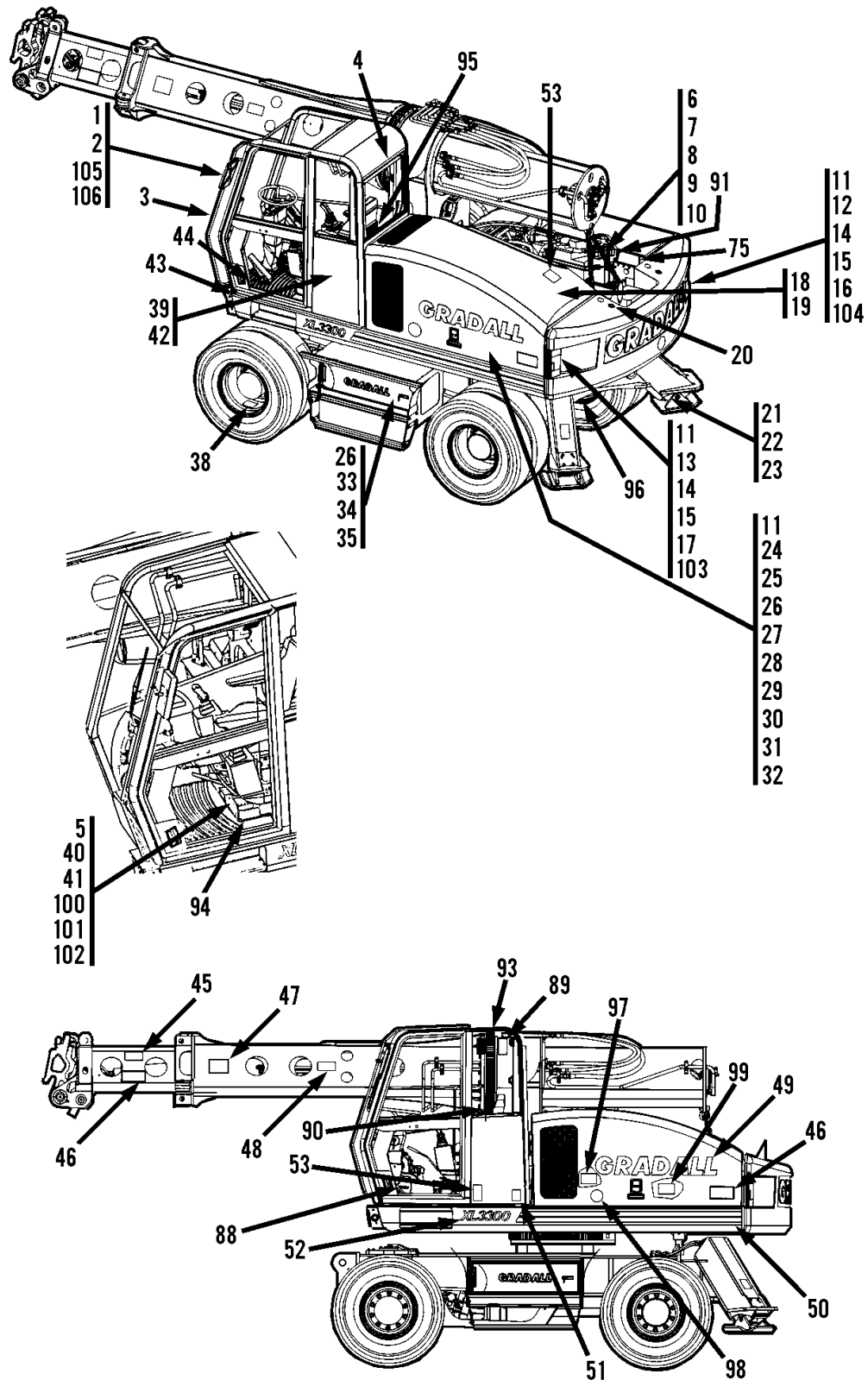




Figure 11-2 CE Decals (Continued)





DECALS

Figure 11-2 CE Decals

Item	Part Number	Qty.	Description	Rev.
1	80363196	1	MIRROR MOUNT, (requires item 2), (SN 0330647 & After excluding 0330648)	
2	80363195	1	MIRROR, (requires item 1), (S/N 0330647 & After excluding 0330648)	
3	80363197	1	BRITAX GRAB RAIL	
4	80373066	2	REFLECTIVE STRIPE	
5	24604161	1	GRADALL SAFETY MANUAL	
6	80313021	1	HOLD-DOWN CHAIN	
7	80313022	2	DOUBLE CLEVIS LINK	
8	80313023	1	ANCHOR SHACKLE	
9	83793034	1	LARGE HITCH PIN CLIP	
10	83211042	2	SMALL HITCH PIN CLIP	
11	80973025	12	WHIZ-LOK SCREW, 3/8-16X1	
12	80303061	1	RIGHT TAIL LIGHT	
13	80303062	1	LEFT TAIL LIGHT	
14	83191019	8	HEX NUT, M6-1	
15	83191012	8	LOCKWASHER, M6	
16	80306033	1	R.H. LIGHT BRACKET	
17	80306024	1	L.H. LIGHT BRACKET	
18	80373141	1	TOP COVER INSULATION	
19	80373140	1	ENGINE COVER INSULATION	
20	80373138	1	REAR BAFFLE INSULATION	
21	80301190	2	LOCKING PIN	
22	83211042	2	HITCH PIN CLIP	
23		2	SPLIT RING	
24	91363018	2	WHIZ-LOK SCREW, 5/16-18X1	
25	80373089	1	ENGINE COVER	
26	77143015	10	WHIZ-LOK NUT, 3/8-16	
27	80373157	1	PULL STRAP	
28	77143006	2	WHIZ-LOK NUT, 5/16-18	
29	80373137	1	ENGINE COVER INSULATION	
30	80373052	50	RETAINING WASHER	
31	80373145	50	PROTECTIVE CAP	
32	80373144	50	INSULATION RETAINER	
33	80303066	2	TOOLBOX ASSY, (includes the following items)	
	80303068	2	LATCH	
	80964051	2	LATCH KEY	
34	80973025	4	WHIZ-LOK SCREW, 3/8-16X1	
35	80963307	4	PRY-OUT PLUG	
36	80313032	1	LUBE/MAINTENANCE CHART	
37	80303079	2	WHEEL CHOCK	
38	80203009	4	TIRE PRESSURE DECAL	
39		Ref	TOOL KIT ASSY, (see Recommended Spare Parts)	
40	33004001	1	PARTS MANUAL	
41	33004002	1	SERVICE MANUAL	
42	80904001	1	HOSE ASSY	
43	80373147	23'	GASKET	
44	80363163	1	FLOOR MAT	
45	80313040	2	WARNING DECAL	
46	80313041	4	SWING HAZARD DECAL	
47	80313043	2	ACCIDENT PREVENTION DECAL	



Figure 11-2 CE Decals (Continued)

Item	Part Number	Qty.	Description	Rev.
48	80213097	2	WARNING DECAL	
49	80373065	2	LARGE GRADALL DECAL	
50	80373104	2	SIDE STRIPE, XL3300	
51	80363182	1	SOUND DECAL	
52	80373103	2	MODEL DECAL, XL3300	
53	80313037	3	CLIMBING ACCESS DECAL	
54	80373153	1	INSIDE VALVE COVER INSULATION	
55	80373155	1	VALVE COVER INSULATION	
56	80373156	1	VALVE COVER INSULATION	
57	80373149	1	VALVE COVER INSULATION	
58	80373098	1	INSIDE ENGINE COVER PANEL	
59	88201036	3	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
60	88561004	3	FLAT WASHER, 3/8	
61	80301137	1	LEFT HEADLAMP BRACKET	
62	80303059	1	LEFT HEADLAMP	
63	88301077	8	ROUND HD MACHINE SCREW, #8-32X1-1/4	
64	88501610	8	HEX NUT, #8-32	
65	91363018	8	WHIZ-LOK SCREW, 5/16-18X1	
66	80301138	1	RIGHT HEADLAMP BRACKET	
67	80303060	1	RIGHT HEADLAMP	
68	80303082	1	SERIAL PLATE	
69	88341012	4	DRIVE SCREW, #4X5/16	
70	80313036	1	LIFTING INSTRUCTIONS	
71	80213103	1	OIL WARNING DECAL	
72	80313038	1	THERMAL HAZARD DECAL	
73	80373125	1	GRAB RAIL	
74	88201035	3	HEX HD CAPSCREW, 3/8-16X1, GR5	
75	80213094	1	PRESSURE VESSEL	
76	80373036	1	VALVE COVER	
77	80973025	20	WHIZ-LOK SCREW, 3/8-16X1	
78	77143015	15	WHIZ-LOK NUT, 3/8-16	
79	80373171	1	GAS SPRING	
80	80213104	1	DIESEL FUEL DECAL	
81	80373022	1	VALVE SIDE GRAB RAIL	
82	80371144	AR	SPACER, 1/8	
83	80371145	AR	SPACER, 1/4	
84	80371146	AR	SPACER, 3/8	
85	80363196	1	MIRROR MOUNT, (requires item 86), (S/N 0330647 & After excluding 0330648)	
86	80363195	1	MIRROR, (requires item 85), (S/N 0330647 & After excluding 0330648)	
87	80313039	2	OUTRIGGER DECAL	
88	80363198	1	FUSE DECAL	
89	80313045	1	WARNING DECAL, WEIGHT LIMIT	
90	80363183	1	NOISE LEVEL DECAL	
91	80213091	1	RESERVOIR DECAL	
92	80313034	1	BOOM TRAVEL DECAL	
93	80213101	1	MANUAL DECAL	
94	77333027	1	MADE IN USA DECAL	
95	80363171	1	ESCAPE ROUTE DECAL	



DECALS

Figure 11-2 CE Decals (Continued)

Item	Part Number	Qty.	Description	Rev.
96	80313042	1	TIE-DOWN POINT DECAL	
97	80213098	1	WARNING DECAL	
98	80313044	2	SPEED LIMIT DECAL, (not required on all CE machines)	
99	80213092	1	BATTERY WARNING DECAL	
100	33004003	1	OWNER/OPERATOR MANUAL	
101	80373102	1	ENGINE MANUAL, (Deere)	
102	80603007	1	EMI SAFETY MANUAL	
103	80304474	1	LEFT LENS	
104	80304475	1	RIGHT LENS	
105	80263052	1	MIRROR MOUNT, (requires item 106), (Before S/N 0330647 including 0330648)	
106	80263054	1	MIRROR, (requires item 105), (Before S/N 0330647 including 0330648)	
107	80263051	1	MIRROR MOUNT, (requires item 108), (Before S/N 0330647 including 0330648)	
108	80263053	1	MIRROR, (requires item 107), (Before S/N 0330647 including 0330648)	



Figure 11-2 CE Decals (Continued)

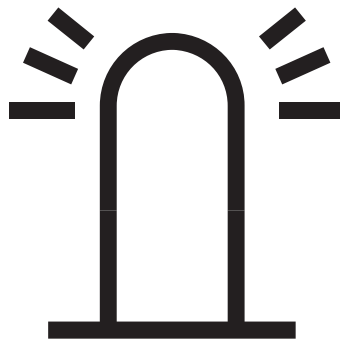
Item	Part Number	Qty.	Description	Rev.



DECALS

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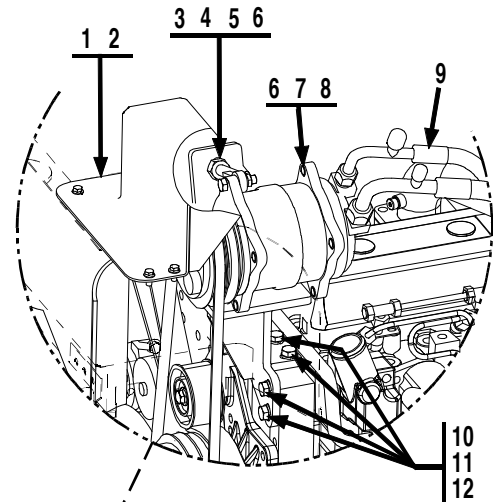
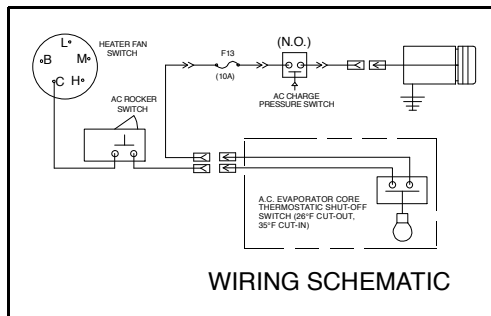
SECTION 12 OPTIONS





OPTIONS

Figure 12-1 Air Condition Kit Installation Components

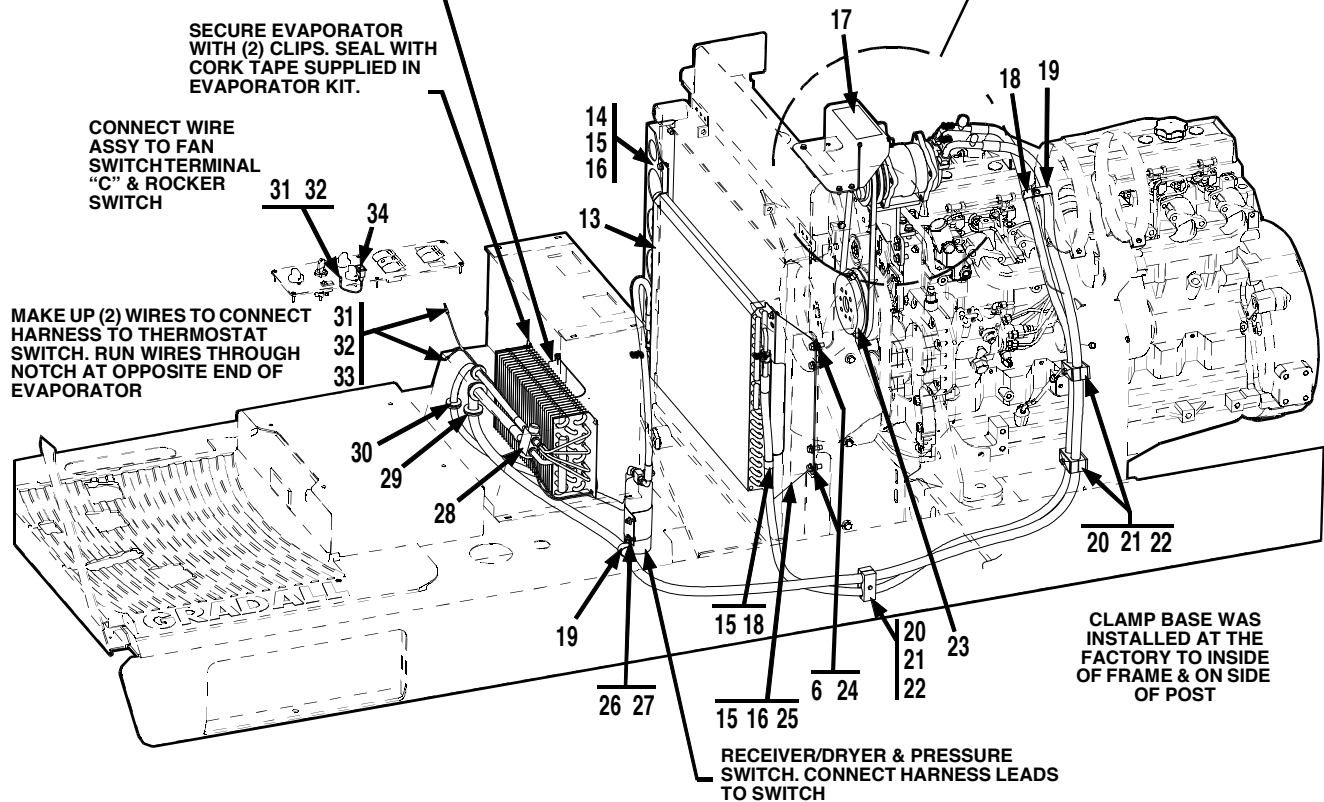


MOUNT THERMOSTAT SWITCH TO SIDE OF HEATER/AC HOUSING WITH (2) #10 SCREWS & (2) NUTS. INSERT END OF SENSOR TUBE INTO EVAPORATOR CORE. (PARTS ARE SUPPLIED IN EVAPORATOR KIT)

SECURE EVAPORATOR WITH (2) CLIPS. SEAL WITH CORK TAPE SUPPLIED IN EVAPORATOR KIT.

CONNECT WIRE ASSY TO FAN SWITCH TERMINAL "C" & ROCKER SWITCH

MAKE UP (2) WIRES TO CONNECT HARNESS TO THERMOSTAT SWITCH. RUN WIRES THROUGH NOTCH AT OPPOSITE END OF EVAPORATOR



CLAMP BASE WAS INSTALLED AT THE FACTORY TO INSIDE OF FRAME & ON SIDE OF POST

RECEIVER/DRYER & PRESSURE SWITCH. CONNECT HARNESS LEADS TO SWITCH


Figure 12-1 Air Condition Kit Installation Components

Item	Part Number	Qty.	Description	Rev.
	80365025	1	AIR CONDITIONER INSTALLATION, (includes all items)	
1	80371173	1	GUARD	
2	80263012	4	WHIZ-LOK SCREW, 1/4-20	
3	80376008	1	ADJUSTING STUD	
4	88501008	2	HEX NUT, 1/2-13	
5	88201037	1	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
6	77143015	5	WHIZ-LOK NUT, 3/8-16	
7	80363175	1	AIR CONDITIONER GENERAL KIT, (see below)	
8	88211073	2	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8	
9	80363174	1	HOSE KIT w/O-RINGS, (see below)	
10	80373131	1	COMPRESSOR MOUNT BRACKET	
11	11005101	4	METRIC SCREW, M10-1.5X25	
12	83191013	4	LOCKWASHER, M10	
13	80363092	1	AIR CONDITIONER CONDENSER	
14	80371039	1	CONDENSER BRACKET, R.H.	
15	77143003	5	WHIZ-LOK SCREW, 5/16-18X5/8	
16	77143006	4	WHIZ-LOK NUT, 5/16-18	
17	80373084	1	AIR CONDITIONER DECAL	
18	91043147	2	SUPPORT CLAMP	
19	85941017	2	SUPPORT CLAMP	
20	77323029	3	TWIN CLAMP SET	
21	77133137	3	COVER PLATE	
22	88201023	3	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
23	80333180	1	AIR CONDITIONER PULLEY	
24	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
25	80371038	1	CONDENSER BRACKET, L.H.	
26	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
27	77143013	2	WHIZ-LOK NUT, 1/4-20	
28	80963089	1	AIR CONDITIONER EVAPORATOR KIT, (see Figure 12-2 for details)	
29	86561279	2	GROMMET	
30	86961044	2	GROMMET	
31		8'	WIRE, 16 GA	
32	86983195	4	FEMALE SPADE, 1/4	
33	86983193	2	BULLET CONNECTOR	
34	80363030	1	ROCKER SWITCH	
	80363175	1	AIR CONDITIONER GENERAL KIT, (includes the following items)	
	80963227	1	COMPRESSOR	
	80363099	1	PRESSURE SWITCH	
	80363100	1	RECEIVER DRYER	
	80963124	1	RECEIVER DRYER BRACKET	
	80474033	1	BELT	
	88211073	4	HEX SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8	
	88201037	1	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
	88201023	3	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
	77143003	5	WHIZ-LOK NUT, 5/16-18X5/8	
	77143015	5	WHIZ-LOK NUT, 3/8-16	



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Figure 12-1 Air Condition Kit Installation Components (Continued)

Item	Part Number	Qty.	Description	Rev.
	77143006	4	WHIZ-LOK NUT, 5/16-18	
	77143013	2	WHIZ-LOK NUT, 1/4-20	
	88501008	2	HEX NUT, 1/2-13	
	80373085	1	SHIM KIT	
	80363102	2	O-RING	
	80363103	1	O-RING	
	80363104	1	O-RING	
	80333180	1	AIR CONDITIONER PULLEY	
	80373131	1	COMPRESSOR MOUNT BRACKET	
	11005101	4	METRIC SCREW, M10-1.5X25	
	80263012	4	WHIZ-LOK SCREW, 1/4-20X1/2	
	80363174	1	HOSE KIT w/O-RINGS, (includes the following items)	
	80363095	1	HOSE ASSY, (condenser to receiver dryer), (includes o-ring)	
	80363102	4	O-RING	
	80363096	1	HOSE ASSY, (receiver dryer to evaporator), (includes two o-rings)	
	80363176	1	HOSE ASSY, (compressor to condenser), (includes o-ring)	
	80363103	2	O-RING	
	80363177	1	HOSE ASSY, (compressor to evaporator), (includes o-ring)	
	80363104	2	O-RING	



Figure 12-1 Air Condition Kit Installation Components (Continued)

Item	Part Number	Qty.	Description	Rev.



OPTIONS

Figure 12-2 Air Conditioning Evaporator Kit

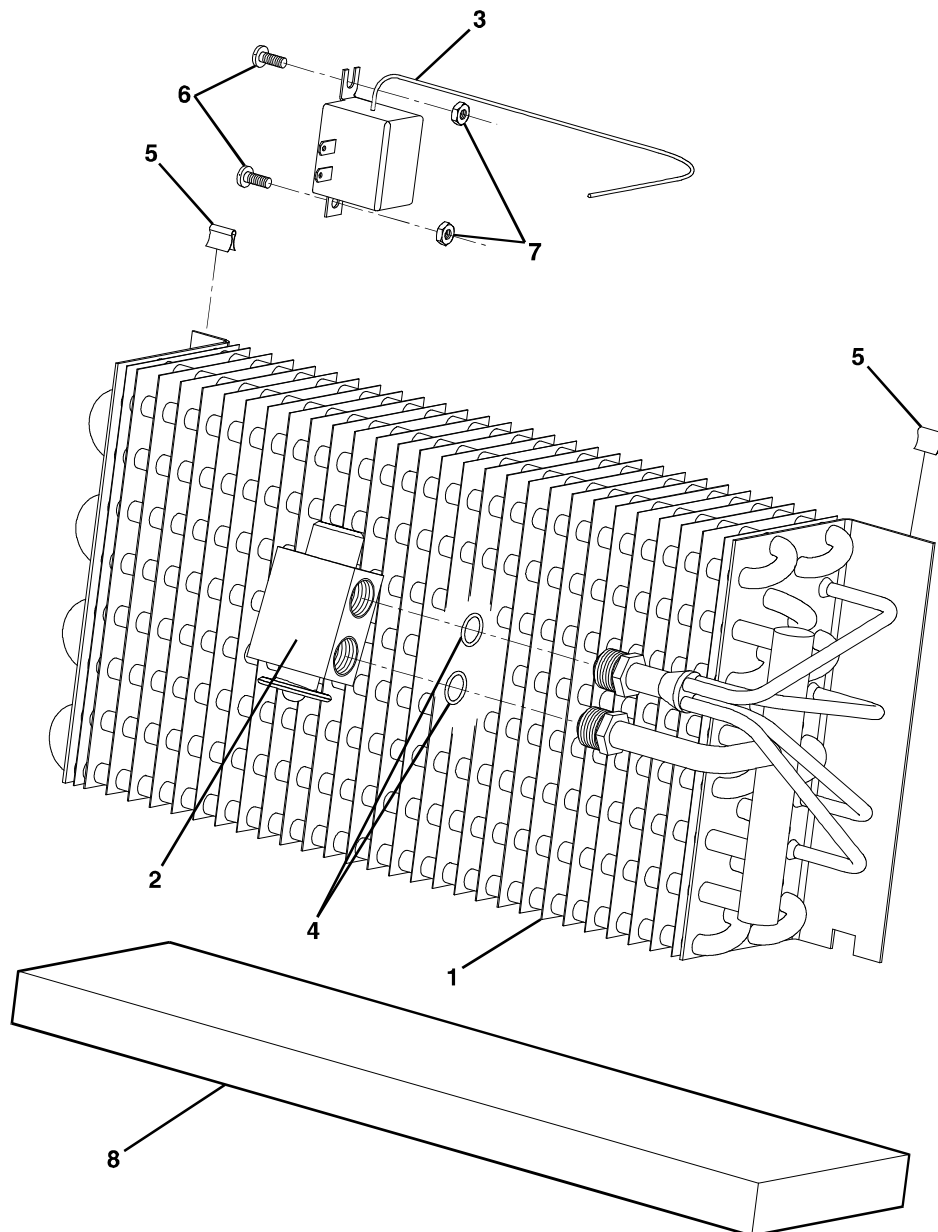




Figure 12-2 Air Conditioning Evaporator Kit

Item	Part Number	Qty.	Description	Rev.
	80963089	1	AIR CONDITIONING EVAPORATOR KIT, (includes all items)	C
1	80963090	1	EVAPORATOR CORE	
2	80963091	1	EXPANSION VALVE	
3	80963092	1	THERMOSTAT SHUT-OFF SWITCH	
4	80363103	2	O-RING	
5	80963310	2	SPRING CLIP	
6	88301193	2	ROUND HD MACHINE SCREW, #10-32X1/2, GR8	
7	88501613	2	HEX NUT, #10-32	
8	80363108	1	DRAIN PAD	
9	80363109	1	CORK TAPE, (not illustrated)	



OPTIONS

Figure 12-3 Additional Battery Installation Components

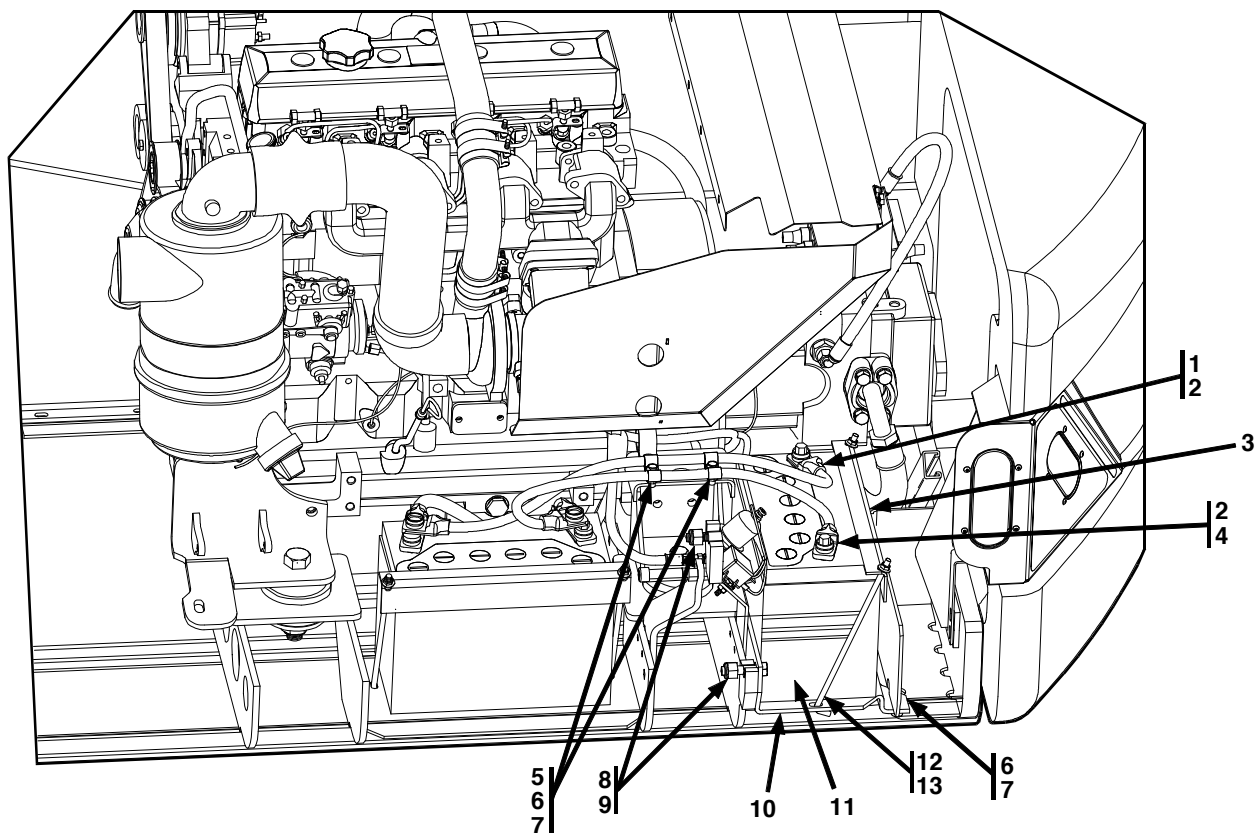




Figure 12-3 Additional Battery Installation Components

Item	Part Number	Qty.	Description	Rev.
	80375011	1	EXTRA BATTERY INSTALLATION, (includes all items)	
1	80373086	1	AUXILIARY BATTERY CABLE, (negative)	
2	77383567	2	SS BATTERY TERMINAL NUT	
3	80271033	1	BATTERY HOLD DOWN ANGLE	
4	80373087	1	AUXILIARY BATTERY CABLE, (positive)	
5	85841094	4	SUPPORT CLAMP	
6	80973025	3	WHIZ-LOK SCREW, 3/8-16X1	
7	77143015	3	WHIZ-LOK NUT, 3/8-16	
8	88201070	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5	
9	88521208	2	HEX LOCKNUT, 1/2-13	
10	80376006	1	BATTERY TRAY WELDMENT	
11		1	BATTERY, (purchase locally)	
12	91081640	2	HOLD DOWN STUD	
13	77143006	2	WHIZ-LOK NUT, 5/16-18	



OPTIONS

Figure 12-4 Engine Block Heater Installation Components

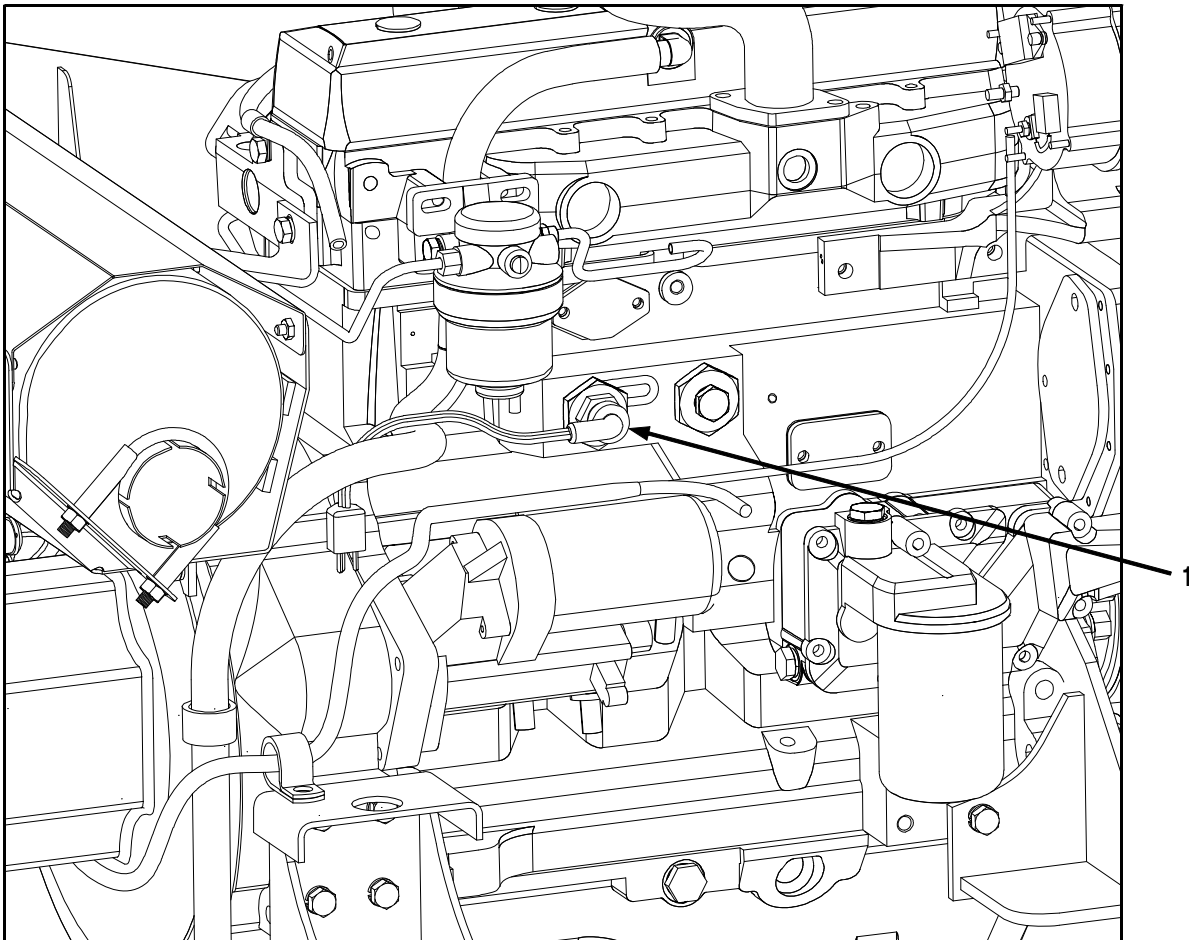




Figure 12-4 Engine Block Heater Installation Components

Item	Part Number	Qty.	Description	Rev.
1	80375012	1	ENGINE BLOCK HEATER INSTALLATION, (includes all items)	
	80373088	1	BLOCK HEATER	



OPTIONS

Figure 12-5 Cold Start Installation Components

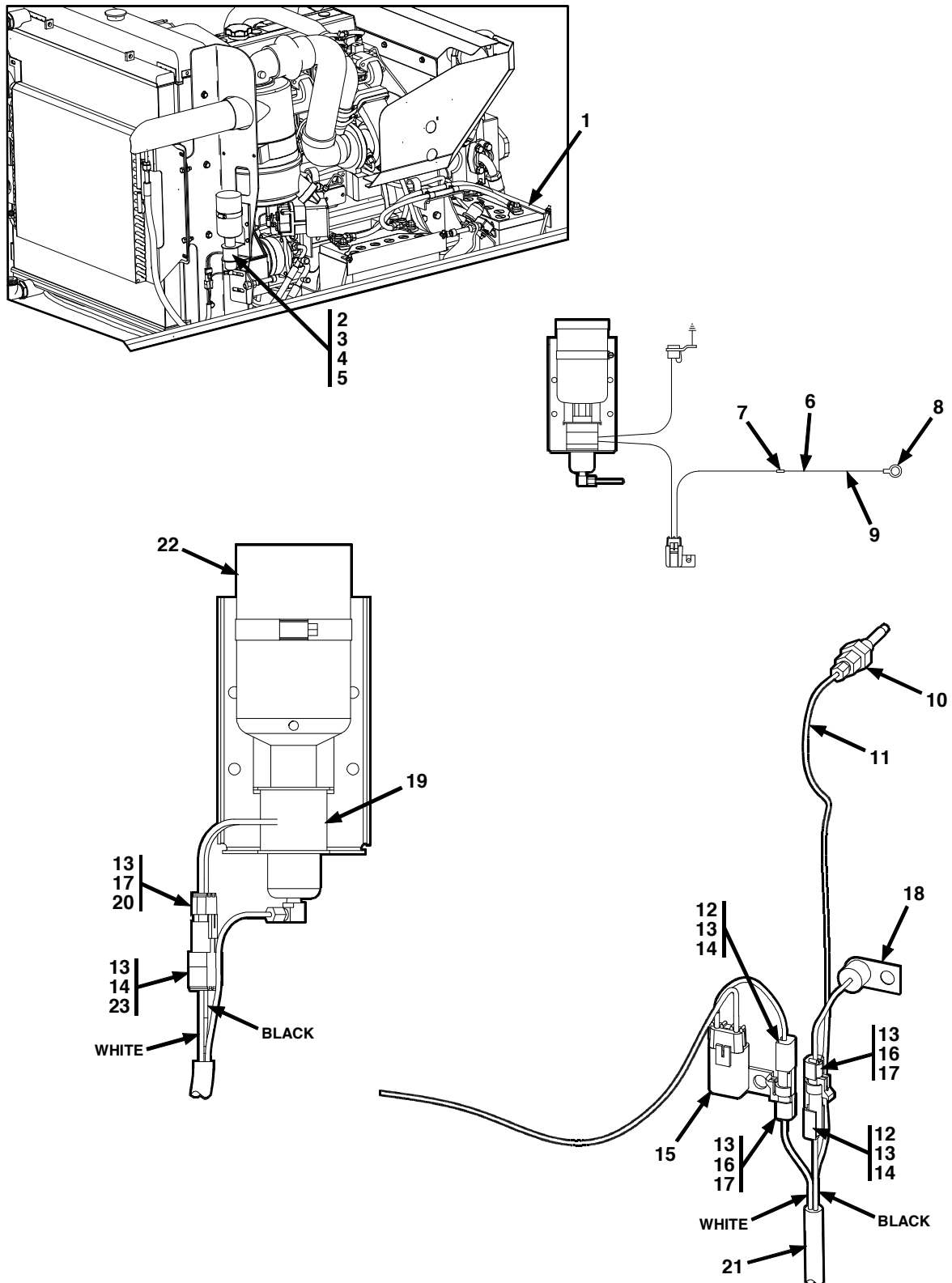




Figure 12-5 Cold Start Installation Components

Item	Part Number	Qty.	Description	Rev.
1	80375013	1	COLD START INSTALLATION COMPONENTS, (includes all items)	A
		Ref	ADDITIONAL BATTERY INSTALLATION COMPONENTS, (see Figure 12-3 for details)	
2	80373189	1	COLD START KIT, (includes items 10 thru 23)	-
3	88201003	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
4	77143013	4	WHIZ-LOK NUT, 1/4-20	
5	86683122	4	TY-RAP	
6	86661153	3'	WHITE WIRE	
7	86683480	1	BUTT CONNECTOR	
8	86983188	1	WHITE WIRE w/HOLE	
9	82038996	4'	FLEX LOOM	
10		1	NOZZLE	
11		10'	NYLON TUBING	
12	80963056	2	WEATHERPACK SHROUD	
13	80963066	8	CABLE SEAL	
14	80963069	4	MALE PIN TERMINAL	
15		1	FUSE HARNESS	
16	80963055	2	WEATHERPACK TOWER	
17	80963068	4	FEMALE PIN TERMINAL	
18		1	E.T.S. SWITCH	
19		1	VALVE, 12VDC	
20	80963057	1	WEATHERPACK TOWER	
21		1	WIRE HARNESS	
22	80374169	1	FUEL CYLINDER	
23	80963058	1	WEATHERPACK SHROUD	



OPTIONS

Figure 12-6 Floodlight Installation Components

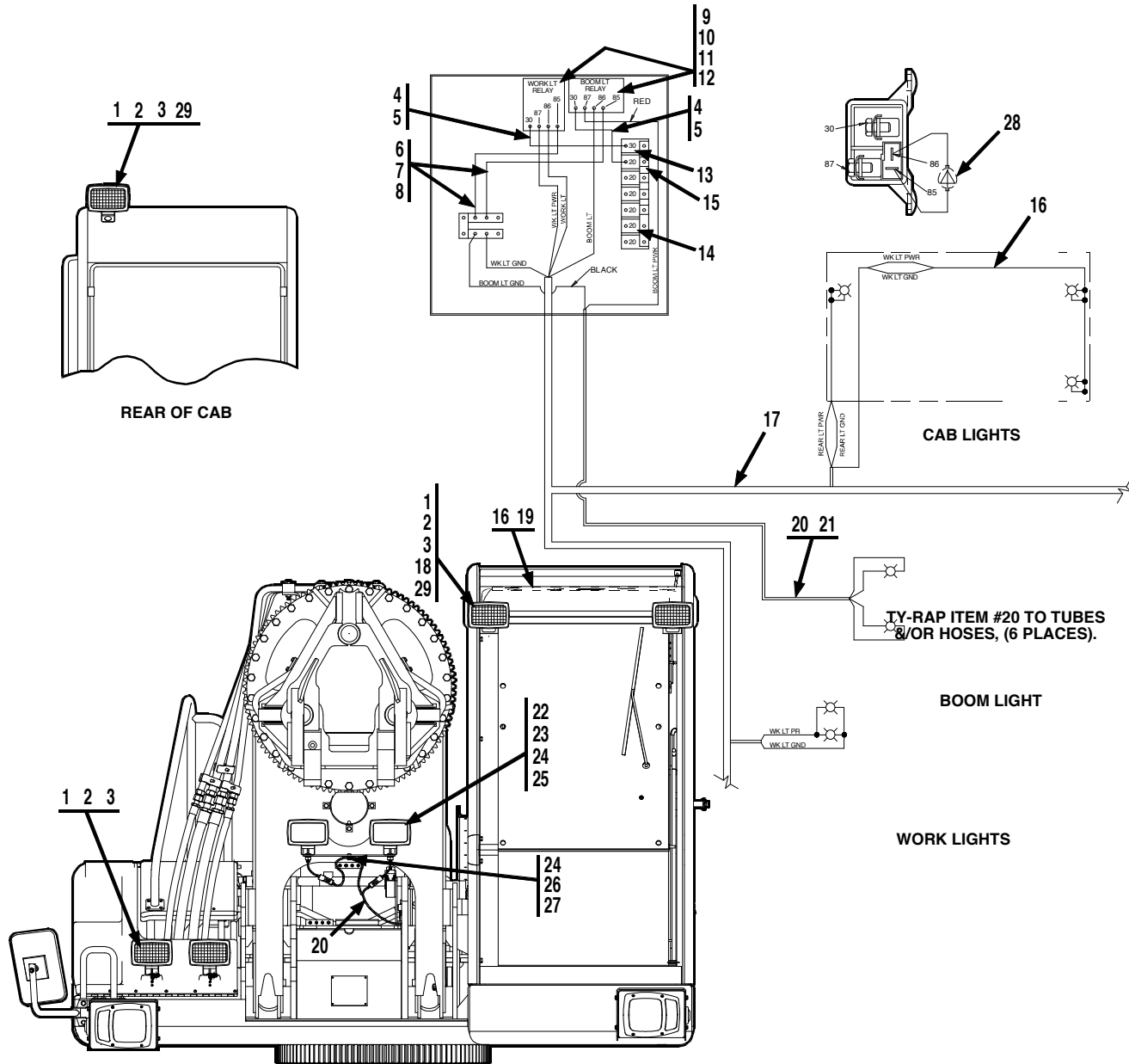




Figure 12-6 Floodlight Installation Components

Item	Part Number	Qty.	Description	Rev.
	80365028	1	FLOODLIGHT INSTALLATION COMPONENTS, (includes all items except 17)	
1	80963050	5	FLOODLIGHT, (includes item 29)	
2	86983193	5	MALE BULLET TERMINAL	
3	77163105	5	FEMALE BULLET TERMINAL	
4		14"	WIRE, 10 GA. (black)	
5	86983190	4	RING TERMINAL, #10, 10 GA.	
6		22"	WIRE, 16 GA., (red)	
7	77163102	2	FEMALE SPADE TERMINAL, 1/4	
8	86983188	2	RING TERMINAL, #10, 16 GA.	
9	77383377	2	RELAY, 75A, (single pole, single throw)	
10	88301092	4	ROUND HD MACHINE SCREW, #10-24X5/8	
11	88501612	4	HEX NUT, #10-24	
12	88551007	4	LOCKWASHER, #10	
13	86883072	1	CIRCUIT BREAKER, 30 AMP	
14	86983041	1	CIRCUIT BREAKER, 20 AMP	
15	86981272	1	BUSS BAR, (2 position)	
16	80363094	1	CAB WORK LIGHT HARNESS	
17	80363115	1	UPPER HARNESS, (Before S/N 0330657)	
	80363214	1	UPPER HARNESS, (S/N 0330657 & After)	
18	80363038	2	SPACER	
19	80363040	1	WIRING DUCT	
20	80263014	1	BOOM LIGHT HARNESS	
21	86683122	6	TY-RAP	
22	80965011	2	BOOM LIGHT ASSY	
23	80361029	1	LIGHT BRACKET	
24	88201033	3	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
25	88551011	2	LOCKWASHER, 3/8	
26	77143015	1	WHIZ-LOK NUT, 3/8-16	
27	86621230	1	SUPPORT CLAMP	
28	80363159	2	DIODE ASSY	
29	83664354	5	BULB	



OPTIONS

Figure 12-7 HID Floodlight Installation Components

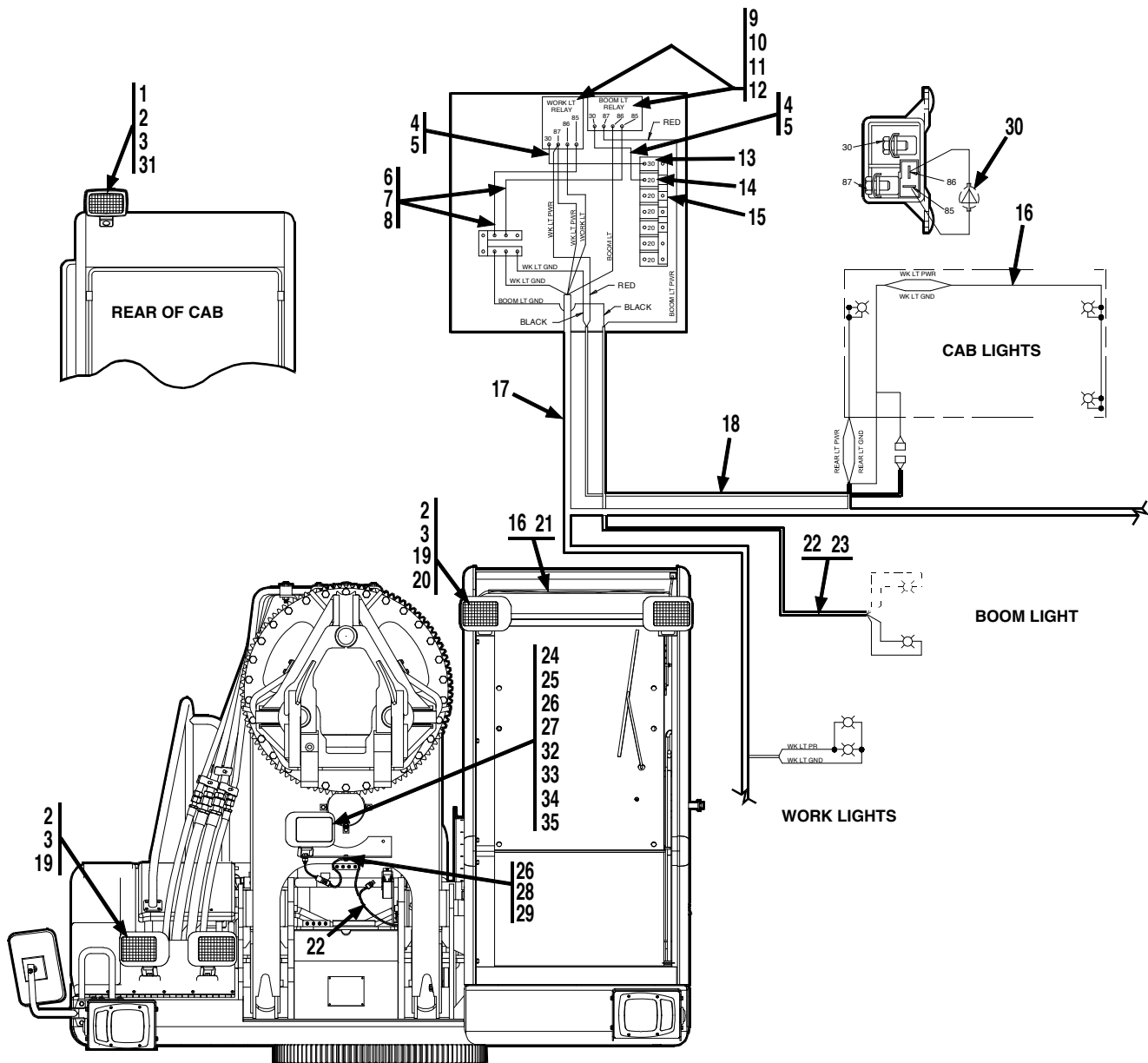




Figure 12-7 HID Floodlight Installation Components

Item	Part Number	Qty.	Description	Rev.
	80365029	1	HID FLOODLIGHT INSTALLATION, (includes all items except 17)	
1	80963050	1	FLOODLIGHT, (includes item 31)	
2	86983193	5	MALE BULLET TERMINAL	
3	77163105	5	FEMALE BULLET TERMINAL	
4		14"	WIRE, 10 GA., (red)	
5	86983190	4	RING TERMINAL, #10, 10 GA.	
6		22"	WIRE, 16 GA., (black)	
7	77163102	2	FEMALE SPADE TERMINAL, 1/4	
8	86983188	2	RING TERMINAL, #10, 16 GA.	
9	77383377	2	RELAY, 75A, (single pole, single throw)	
10	88301092	4	ROUND HD MACHINE SCREW, #10-24X5/8	
11	88501612	4	HEX NUT, #10-24	
12	88551007	4	LOCKWASHER, #10	
13	86883072	1	CIRCUIT BREAKER, 30 AMP	
14	86983041	1	CIRCUIT BREAKER, 20 AMP	
15	86981272	2	BUSS BAR, (2 position)	
16	80363094	1	CAB WORK LIGHT HARNESS	
17	80363115	1	UPPER HARNESS, (Before S/N 0330657)	
	80363214	1	UPPER HARNESS, (S/N 0330657 & After)	
18	80363180	1	HID CAB LIGHT HARNESS	
19	80993162	4	HID FLOODLIGHT	
20	80363038	2	SPACER	
21	80363040	1	WIRING DUCT, (29")	
22	80263014	1	BOOM LIGHT HARNESS	
23	86683122	6	TY-RAP	
24	80965055	1	HID SPOTLIGHT ASSY, (includes items 32 thru 35)	
25	80361029	1	LIGHT BRACKET	
26	88201033	3	HEX HD CAPSCRERW, 3/8-16X3/4, GR5	
27	88551011	2	LOCKWASHER, 3/8	
28	77143015	1	WHIZ-LOK NUT, 3/8-16	
29	86621230	1	SUPPORT CLAMP, 11/32	
30	80363159	2	DIODE ASSY	
31	83664354	1	BULB	
32	80993161	1	HID SPOTLIGHT	
	80994018	1	RECTANGULAR REPLACEMENT BULB	
	80994025	1	OVAL REPLACEMENT BULB	
33	80963058	1	SHROUD CONNECTOR	
34	80963069	2	MALE TERMINAL	
35	80963066	2	CABLE SEAL	

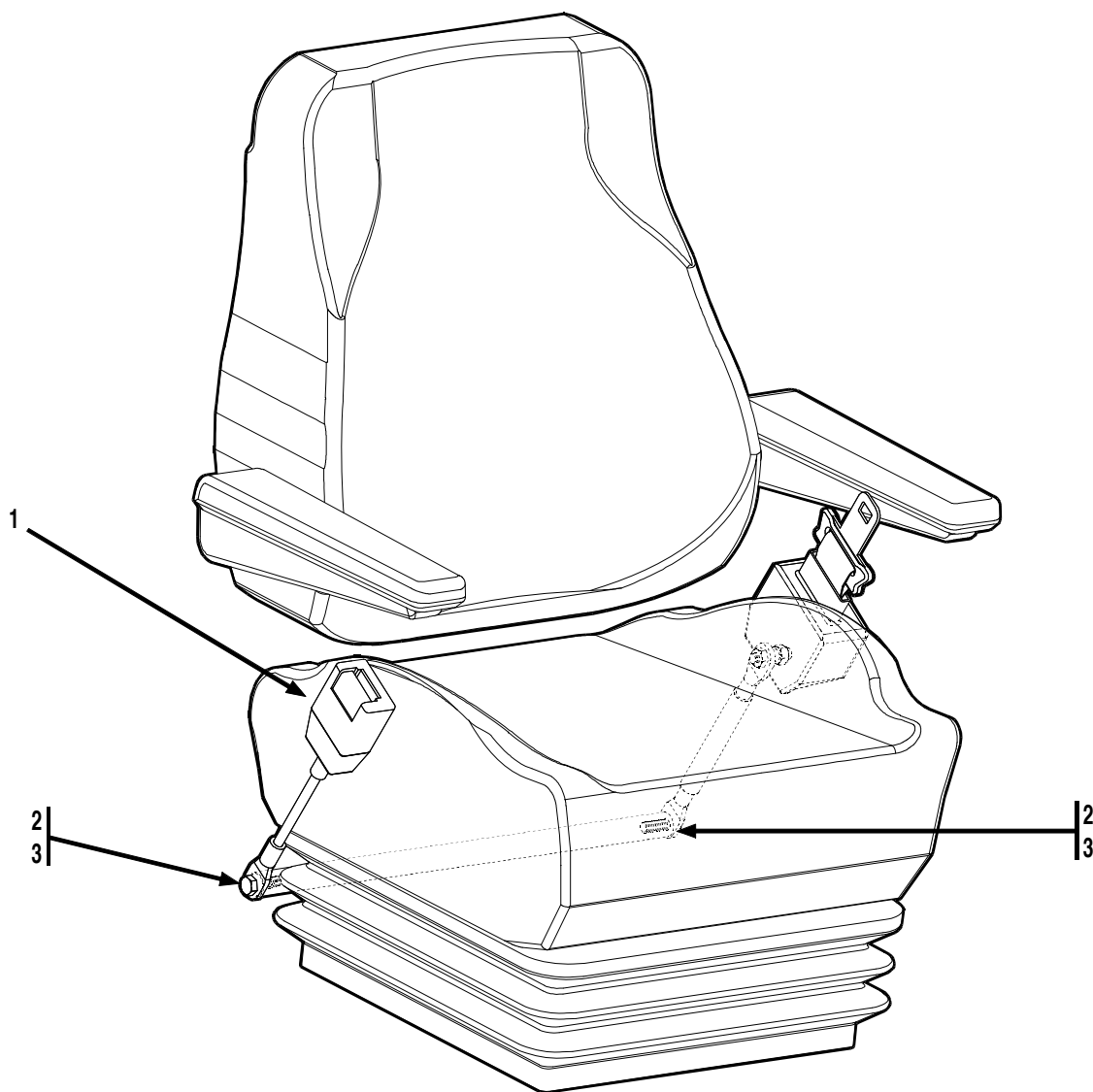




Figure 12-8 Seat Belt Installation Components

Item	Part Number	Qty.	Description	Rev.
	80365013	1	SEAT BELT INSTALLATION, (includes all items)	
1	80363117	1	SEAT BELT KIT	
2	88201549	2	HEX HD CAPSCREW, 7/16-20X1, GR5	
3	88561110	2	FLAT WASHER, 7/16	



OPTIONS

Figure 12-9 AM/FM Radio & Antenna Installation Components

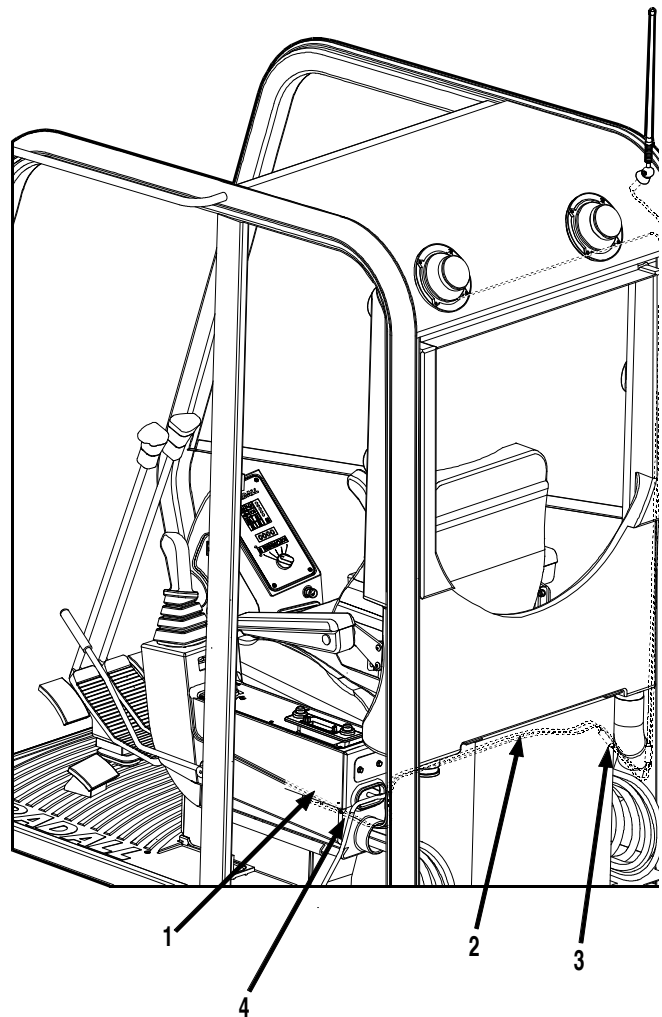
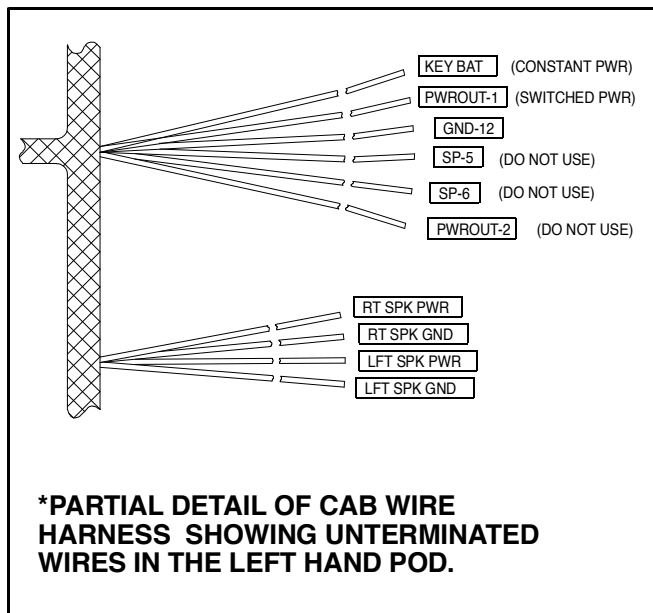




Figure 12-9 AM/FM Radio & Antenna Installation Components

Item	Part Number	Qty.	Description	Rev.
	80365014	1	AM/FM RADIO & ANTENNA INSTALLATION COMPONENTS, (includes all items)	
1	80263028	1	RADIO KIT	
2	80363120	1	ANTENNA LEAD EXTENSION, 48"	
3	80363121	1	ANTENNA LEAD EXTENSION, 12"	
4	77383472	7	BUTT CONNECTOR, (red)	



OPTIONS

Before S/N 0210017716

Figure 12-10 Chassis Mounted Blade Installation Components

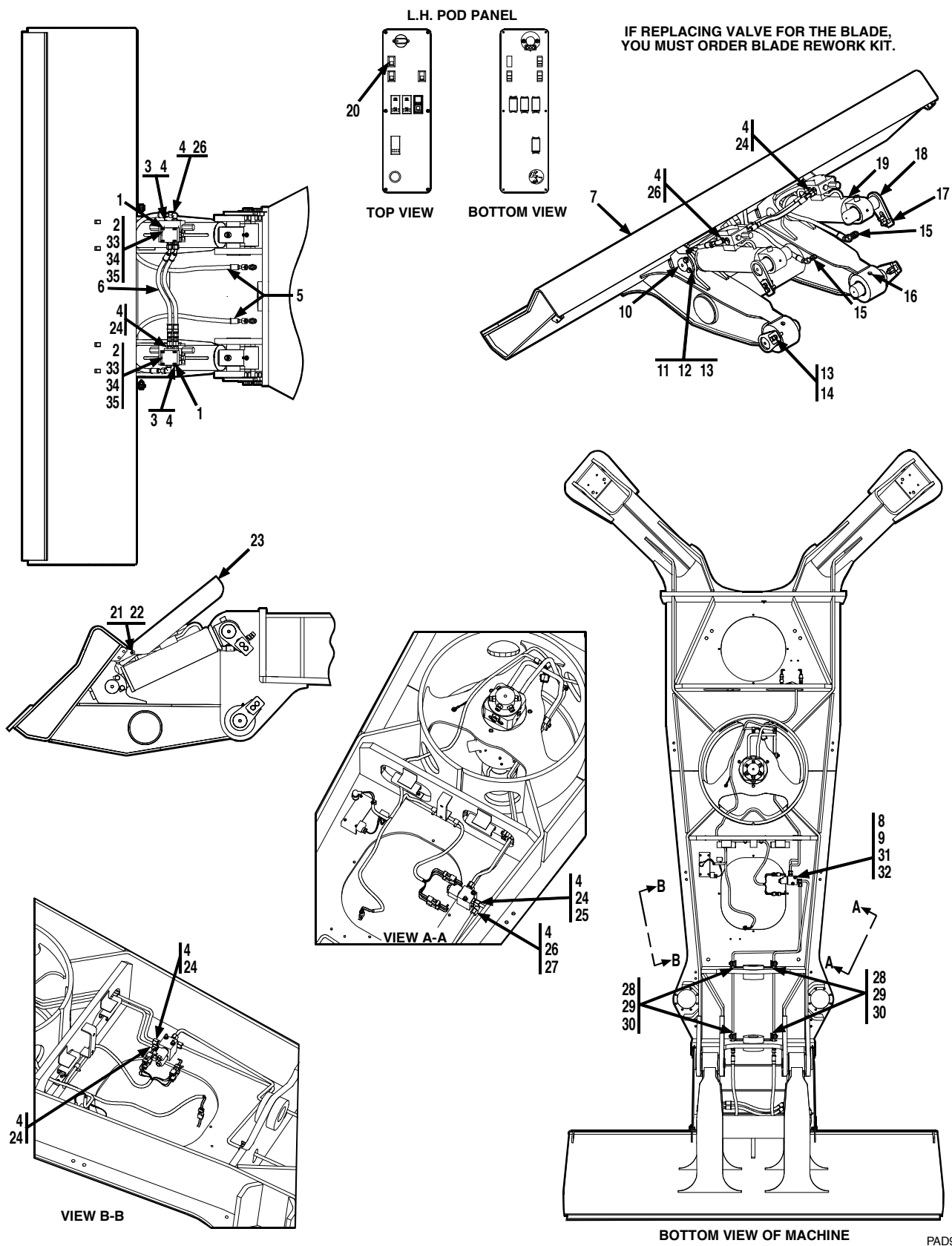




Figure 12-10 Chassis Mounted Blade Installation Components

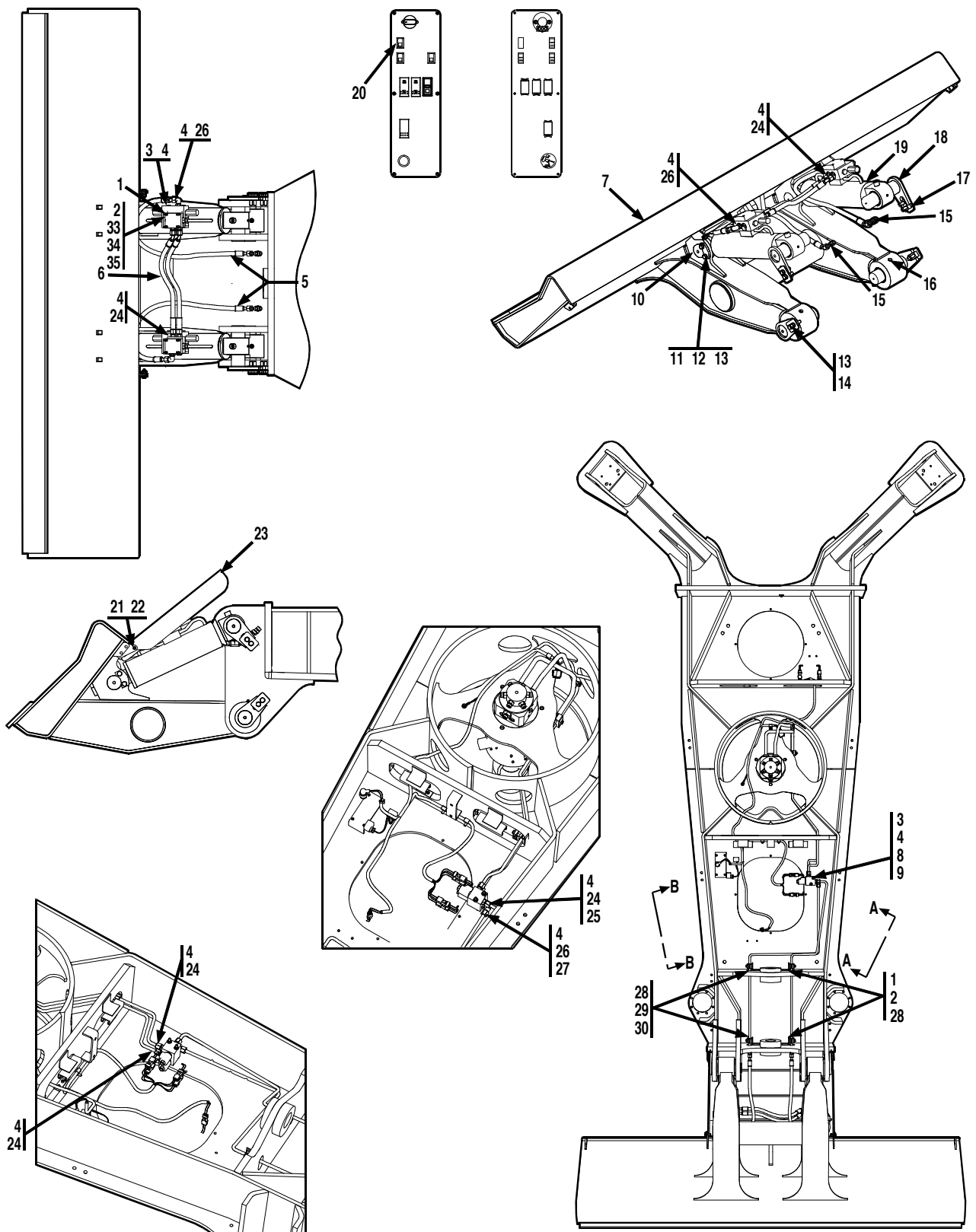
Item	Part Number	Qty.	Description	Rev.
	80355002	1	BLADE ATTACHMENT, (includes all items)	
1	88211030	8	SOCKET HD CAPSCREW, #10-24X3/4, GR8	
2	80351231	2	BEARING BLOCK	
3	88662175	2	HEX HD PLUG, (includes item 4)	
4	88591205	12	O-RING	
5	84719076	2	HOSE ASSY	
6	84719640	2	HOSE ASSY	
7	80356010	1	BLADE WELDMENT	
8	88561003	2	FLAT WASHER, 5/16	
9	88521305	2	HEX LOCKNUT, 5/16-18	
10	80351100	2	PIN	
11	80351099	2	PIN BLOCK	
12	88201065	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
13	88551013	12	LOCKWASHER, 1/2	
14	88201068	8	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
15	88662460	2	CONNECTOR, (includes o-ring)	
16	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
17	80356013	4	KEEPER BLOCK WELDMENT	
18	80926012	4	PIN WELDMENT	
19		Ref	BLADE CYLINDER, (see Figure 9-7 for details)	
20	80363030	1	MINI ROCKER SWITCH	
21	88251018	2	SOCKET HD SHOULDER SCREW, 3/8X1/2, (5/16-18 thread)	
22	88521205	2	HEX LOCKNUT, 5/16-18	
23	80356039	1	BLADE COVER WELDMENT	
24	88662302	7	CONNECTOR, (includes item 4)	
25	80303035	1	TUBE ASSY	
26	88662330	3	ELBOW, 90 DEGREES, (includes item 4)	
27	80303034	1	TUBE ASSY	
28	77133177	4	HEX HD CAPSCREW	
29	77133140	4	COVER PLATE	
30	77133168	4	CLAMP SET	
31		Ref	BLADE SELECTOR VALVE, (see Figure 9-40 for details)	
32	91083340	2	HEX HD CAPSCREW, 5/16-18X4-1/2, GR5	
33	88211048	8	SOCKET HD CAPSCREW, 1/4-20X2-1/2, GR 8	
34	80333205	4	O-RING	
35		Ref	BLADE VALVE BLOCK ASSY, (see Figure 9-41 for details)	
	80355014	1	BLADE REWORK KIT, (includes items 1, 2, 5, 22, 23, 33, 34, two of 26 & 35, Outtrigger Valve Block Assy, see Figure 9-37 for details)	



OPTIONS

S/N 0210017716 & After

Figure 12-10 Chassis Mounted Blade Installation Components



PAD9610

**Figure 12-10 Chassis Mounted Blade Installation Components**

Item	Part Number	Qty.	Description	Rev.
	80355002	1	BLADE ATTACHMENT, (includes all items)	
1	77133140	4	COVER PLATE	
2	77133168	4	CLAMP SET	
3		Ref	BLADE SELECTOR VALVE, (see Figure 9-40 for details)	
4	91083340	2	HEX HD CAPSCREW, 5/16-18X4-1/2, GR5	
5	84719076	2	HOSE ASSY	
6	84719640	2	HOSE ASSY	
7	80356010	1	BLADE WELDMENT	
8	88561003	2	FLAT WASHER, 5/16	
9	88521305	2	HEX LOCKNUT, 5/16-18	
10	80351100	2	PIN	
11	80351099	2	PIN BLOCK	
12	88201065	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
13	88551013	12	LOCKWASHER, 1/2	
14	88201068	8	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
15	88662460	2	CONNECTOR, (includes o-ring)	
16	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
17	80356013	4	KEEPER BLOCK WELDMENT	
18	80926012	4	PIN WELDMENT	
19		Ref	BLADE CYLINDER, (see Figure 9-7 for details)	
20	80363030	1	MINI ROCKER SWITCH	
21	88251018	2	SOCKET HD SHOULDER SCREW, 3/8X1/2, (5/16-18 thread)	
22	88521205	2	HEX LOCKNUT, 5/16-18	
23	80356039	1	BLADE COVER WELDMENT	
24	88662302	7	CONNECTOR, (includes item 4)	
25	80303035	1	TUBE ASSY	
26	88662330	3	ELBOW, 90 DEGREES, (includes item 4)	
27	80303034	1	TUBE ASSY	
28	77133177	4	HEX HD CAPSCREW	
	80355014	1	BLADE REWORK KIT, (includes items 1, 2, 5, 22, 23, 33, 34, two of 26 & 35, Outrigger Valve Block Assy, see Figure 9-37 for details)	





Figure 12-11 Front Outrigger Assembly Installation Components

Item	Part Number	Qty.	Description	Rev.
	80355004	1	FRONT OUTRIGGER ASSY, (includes all items)	
1	80303009	2	CYLINDER PIN	
2	88201075	2	HEX HD CAPSCREW, 1/2-13X3-1/2, GR5	
3	88521208	2	HEX LOCKNUT, 1/2-13	
4	88671001	2	LUBRICATING FITTING	
5	80301069	4	CYLINDER RETAINER PLATE	
6	12381025	16	HARDENED WASHER, 1/2	
7	88201066	16	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (torque to 680 lb-ft)	
8		Ref	VALVE BLOCK ASSY, (see Figure 9-37 for details)	
9	88201008	8	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5, (torque to 9 lb-ft)	
10	88551009	8	LOCKWASHER, 1/4	
11	80003691	4	O-RING	
12	88662193	4	HEX SOCKET HD PLUG, (includes item 24)	
13	80356022	1	FRONT OUTRIGGER WELDMENT	
14	80306025	2	PAD WELDMENT	
15	80303012	2	INNER TUBE PAD	
16	12001234	16	HARDENED WASHER, 3/8	
17	88201535	16	HEX HD CAPSCREW, 3/8-24X1-1/4, GR5, (torque to 32 lb-ft)	
18		Ref	OUTRIGGER CYLINDER, (see Figure 9-4 for details)	
19	80303013	2	OUTER TUBE PAD	
20	80306028	2	STABILIZER LEG WELDMENT	
21	80301096	4	RETAINER PLATE	
22	80301169	2	SPACER	
23	88631644	2	DOWEL PIN, 3/8X3/4	
24	88591205	4	O-RING	



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Figure 12-12 Front Outrigger Installation Components

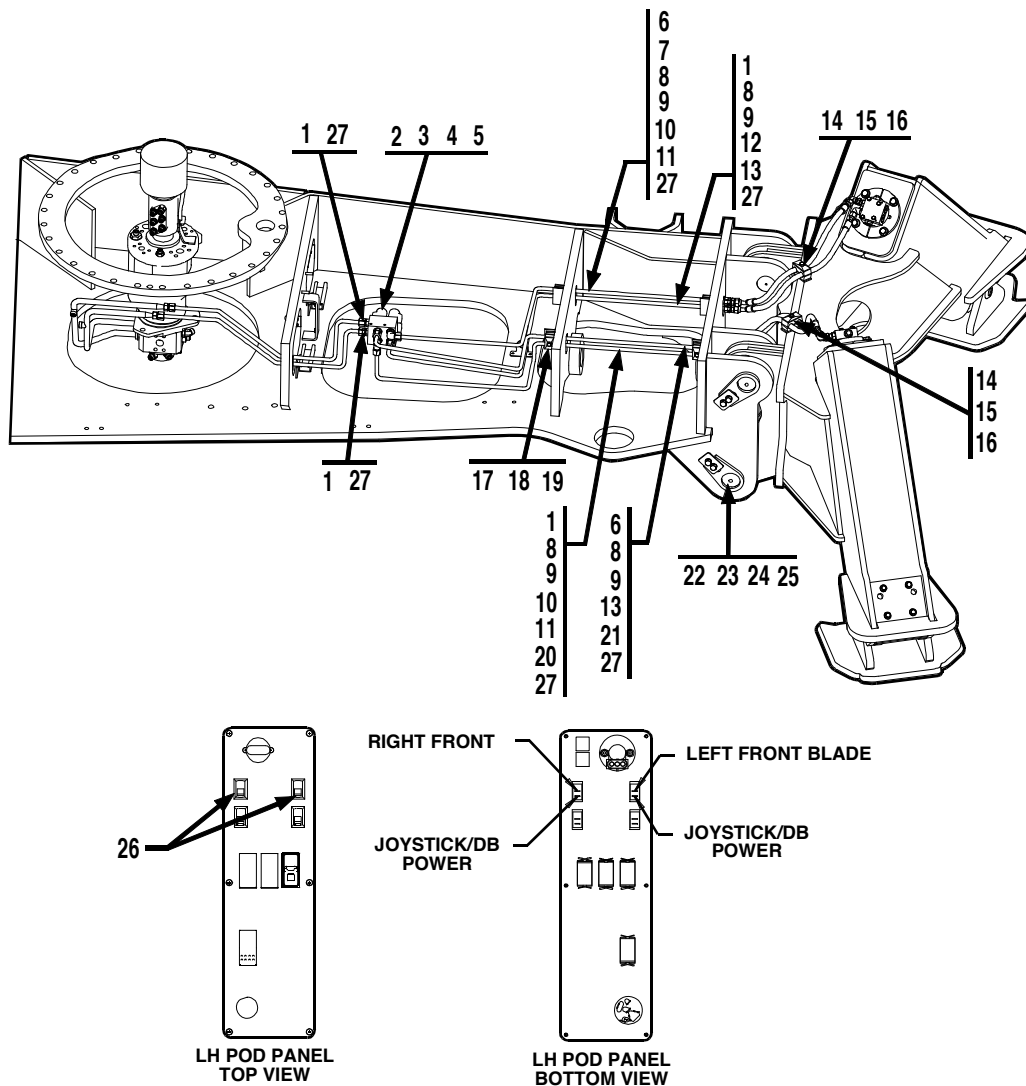




Figure 12-12 Front Outrigger Installation Components

Item	Part Number	Qty.	Description	Rev.
1	88662302	4	CONNECTOR, (includes item 27)	
2	80333115	1	OUTRIGGER SELECT VALVE	
3	77143006	2	WHIZ-LOK NUT, 5/16-18	
4	91083340	2	HEX HD CAPSCREW, 5/16-18X4-1/2	
5	88561003	2	FLAT WASHER, 5/16	
6	88662330	2	ELBOW, 90 DEGREES, (includes item 27)	
7	80303036	1	TUBE ASSY	
8	88662460	4	CONNECTOR	
9	84719730	4	HOSE ASSY	
10	88662310	2	CONNECTOR, (includes item 27)	
11	88662371	2	ELBOW, 90 DEGREES, (swivel nut)	
12	80303039	1	TUBE ASSY	
13	88662432	2	ELBOW, 90 DEGREES, (includes item 27)	
14	77133136	2	CLAMP	
15	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
16	77133137	2	COVER PLATE	
17	77133140	4	COVER PLATE	
18	77133168	4	CLAMP SET	
19	77133177	4	HEX HD CAPSCREW, 5/16-18X1-3/8	
20	80303038	1	TUBE ASSY	
21	80203037	1	TUBE ASSY	
22	80356012	4	PIN WELDMENT	
23	80356013	4	KEEPER BLOCK WELDMENT	
24	88201068	8	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
25	88551013	8	LOCKWASHER, 1/2	
26	80363030	2	MINI-ROCKER SWITCH	
27	88591205	10	O-RING	



OPTIONS

Figure 12-13 Wiper-Washer Installation Components

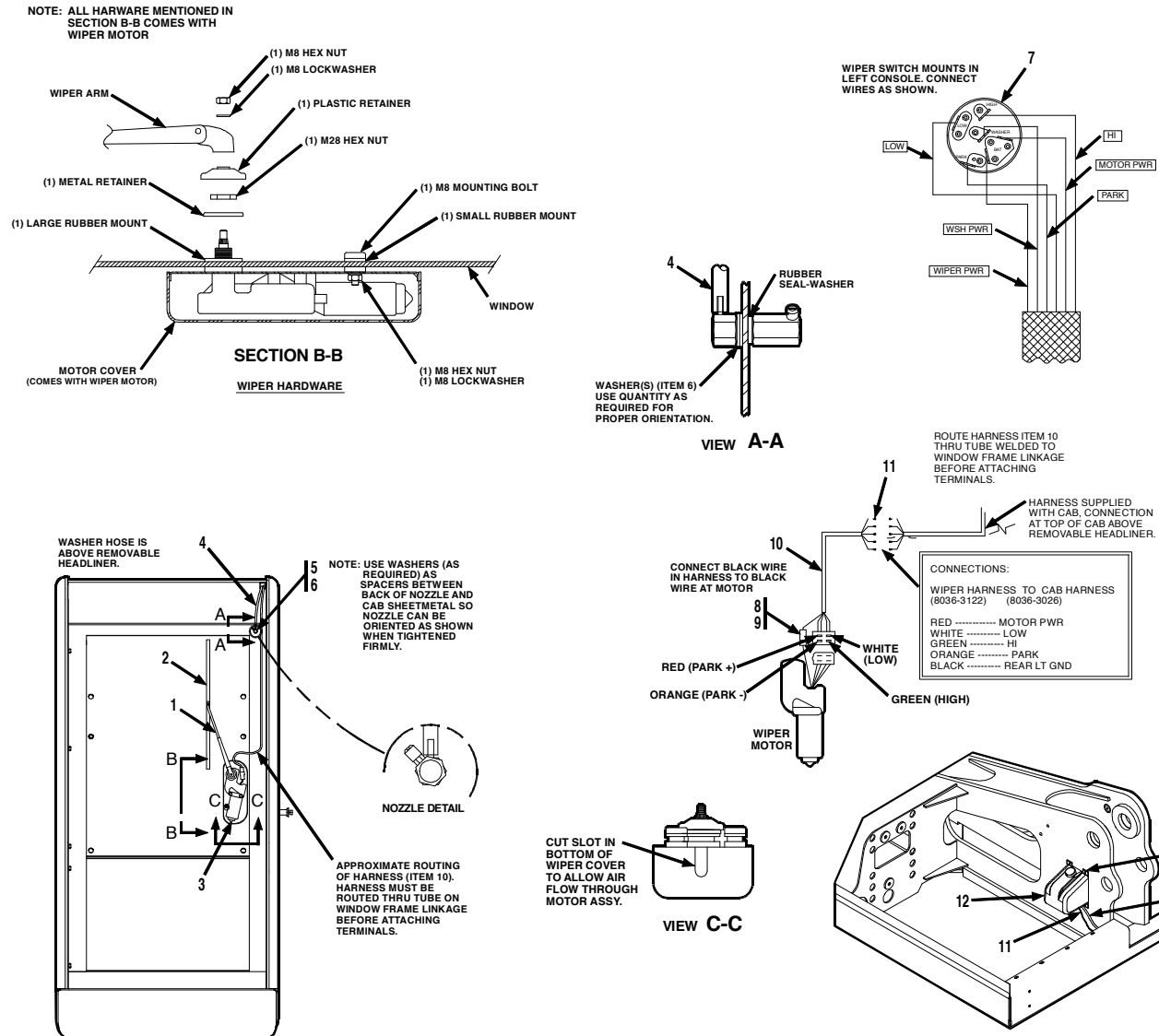




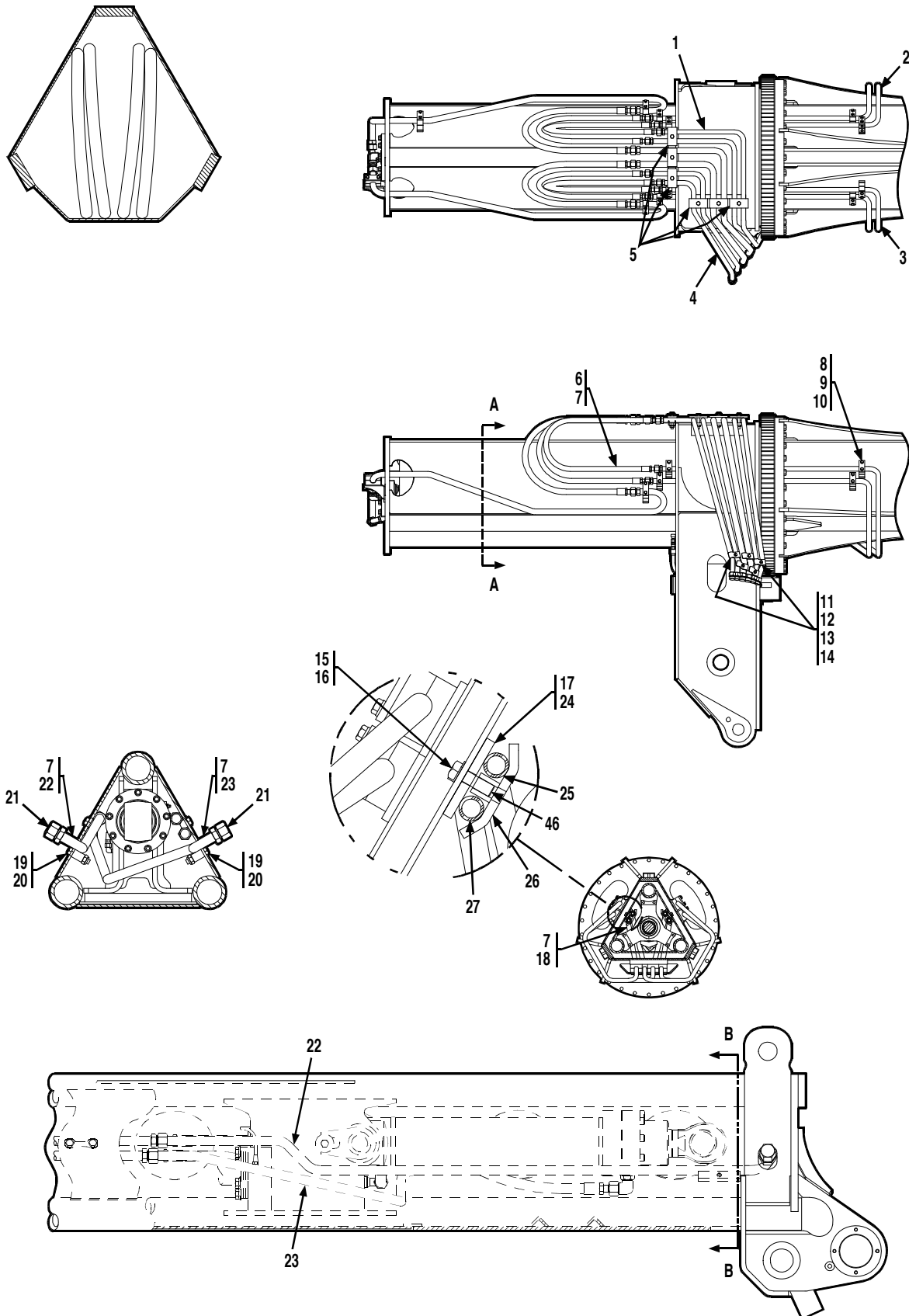
Figure 12-13 Wiper-Washer Installation Components

Item	Part Number	Qty.	Description	Rev.
	80365005	1	WIPER/WASHER INSTALLATION COMPONENTS, (includes all items)	
1	80263080	1	WIPER ARM	
2	80363046	1	WIPER BLADE, (550mm)	
3	80263081	1	WIPER MOTOR, (2 speed)	
4		AR	WASHER HOSE	
5	80263020	1	WASHER NOZZLE KIT	
6	88561108	2	FLAT WASHER, 5/16	
7	83953038	1	WINDSHIELD WIPER SWITCH	
8	77163105	1	INSULATED FEMALE BULLET	
9	86983193	1	INSULATED MALE BULLET	
10	80363122	1	WIPER HARNESS	
11	90028960	6	INSULATED MALE SPADE	
12	83683085	1	WASHER BOTTLE ASSY	
13	88501004	4	HEX NUT, 1/4-20	
14	88561002	4	FLAT WASHER, 1/4	
15	88551009	4	LOCKWASHER, 1/4	



OPTIONS

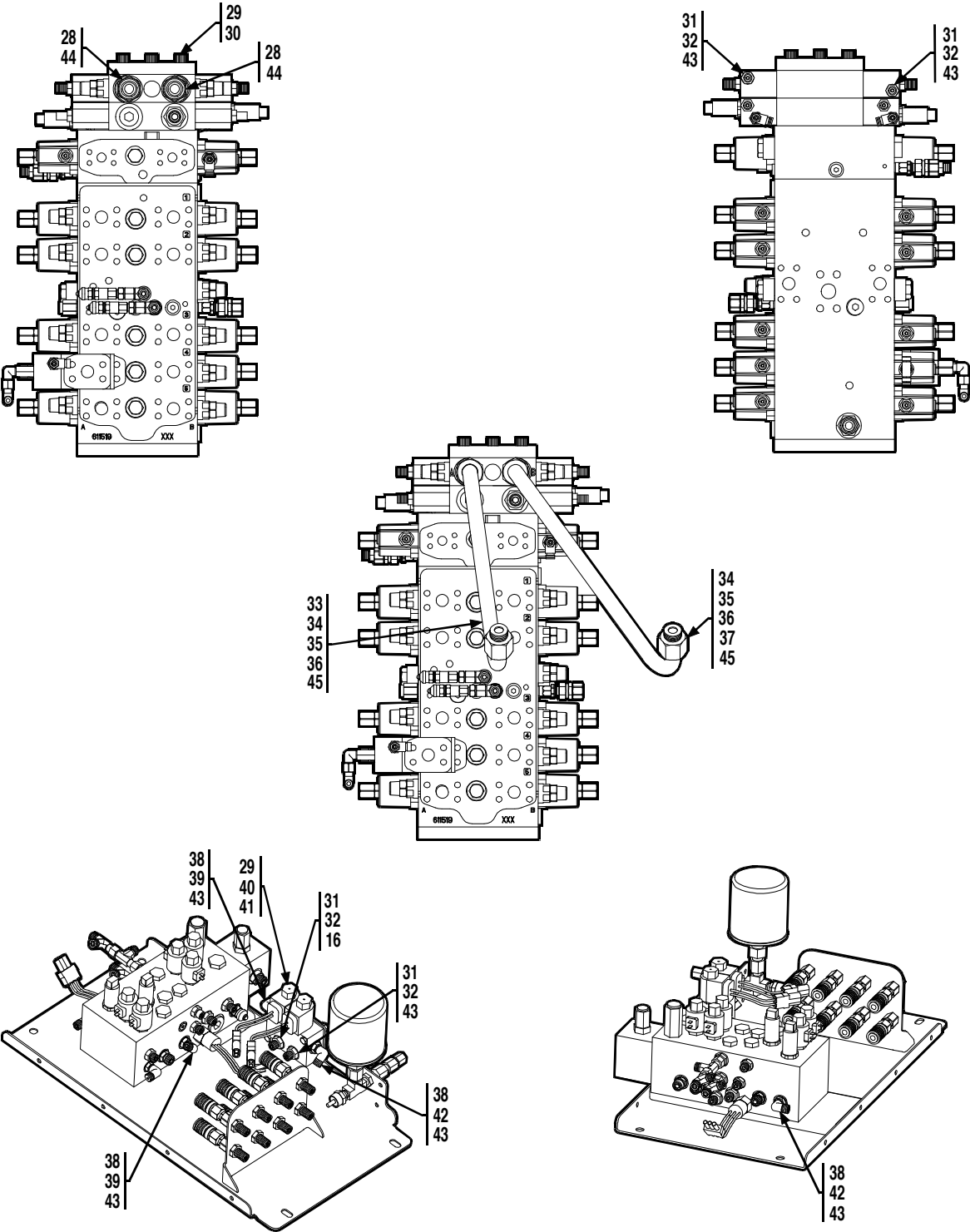
Figure 12-14 Auxiliary Hydraulic Field Installation Components



PAD9650



Figure 12-14 Auxiliary Hydraulic Field Installation Components





OPTIONS

Figure 12-14 Auxiliary Hydraulic Field Installation Components

Item	Part Number	Qty.	Description	Rev.
	80335013	1	AUXILIARY HYDRAULIC FIELD CONVERSION, (includes all items)	
1	80323038	1	AUXILIARY TUBE ASSY	
2	80323024	1	L.H. AUXILIARY TUBE ASSY	
3	80323025	1	R.H. AUXILIARY TUBE ASSY	
4	80323019	1	AUXILIARY TUBE ASSY	
5	80321083	4	TUBE CLAMP	
6	84718116	2	HOSE ASSY	
7	88591508	10	O-RING	
8	83253009	6	CLAMP, 1"	
9	83253010	6	COVER PLATE	
10	88201040	12	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5	
11	80221277	4	CLAMP	
12	80221281	2	SPACER	
13	88211073	2	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8, (lubricate & torque to 40-45 ft. lb.)	
14	88521206	2	HEX LOCKNUT, 3/8-16	
15	88201068	6	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
16	80221278	3	KEEPER	
17	80321136	2	BOTTOM PLATE	
18	84719176	2	HOSE ASSY	
19	88201070	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5	
20	88521208	2	HEX LOCKNUT, 1/2-13	
21	88661369	2	HEX CAP, 1" TUBE	
22	80323028	1	TUBE ASSY	
23	80323029	1	TUBE ASSY	
24	80321137	1	CENTER CLAMP BOTTOM	
25	80323042	1	TUBE ASSY	
26	80423038	3	CLAMP TOP WELDMENT	
27	80323043	1	TUBE ASSY	
28	88662305	2	ADAPTER, (includes item 44)	
29	80333099	1	DUAL SOLENOID VALVE	
30	80333170	1	MOTOR BOLT & SEAL KIT	
31	88662471	10	CONNECTOR, (includes item 43)	
32	84719558	2	HOSE ASSY	
33	80333073	1	TUBE ASSY, (aux-1)	
34	77133089	2	TEST COUPLING, (includes item 45)	
35	84719337	2	HOSE ASSY	
36	88591508	4	O-RING	
37	80333074	1	TUBE ASSY, (aux-2)	
38	88662489	4	ELBOW, 90 DEGREES, (includes item 43)	
39	84719531	1	HOSE ASSY	
40	77143013	2	WHIZ-LOK NUT, 1/4-20	
41	88201009	2	HEX HD CAPSCREW, 1/4-20X2, GR5	
42	84719449	1	HOSE ASSY	
43	88591204	14	O-RING	
44	88591209	2	O-RING	
45	83763056	2	VITON O-RING, (lubricate lightly)	
46	88521008	6	HEX LOCKNUT, 1/2-13	



Figure 12-14 Auxiliary Hydraulic Field Installation Components

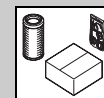
Item	Part Number	Qty.	Description	Rev.



OPTIONS

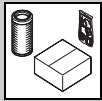
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RECOMMENDED SPARE PARTS



The following list will service fleets of machines (built to current production per date on the front cover) with repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your Gradall dealer or the Gradall Industries Parts Department.

Part Number	Description	Qty./Machine
Boom		
83201049	Hex Hd Cap Screw, (see Figure 2-4)	3
77121178	Serrated Washer, (see Figure 2-4)	3
80923009	Boom Cradle Bushing, (see Figure 2-1)	2
83625043	Flat Roller, (see Figure 2-3)	1
83625044	Concave Roller, (see Figure 2-2)	1
80421136	Keeper, (see Figure 2-4)	3
77321063	Eccentric Shaft, (see Figure 2-4)	3
83421214	Eccentric Shaft, (see Figure 2-2)	5
80926014	Pin Weldment, (see Sections 2, 3, & 8)	8
80926012	Pin Weldment, (see Sections 1 & 3)	3
80921074	Pin, (see Section 3)	2
80921159	Rectangle Washer, (see Figure 2-5)	2
80921174	High Nut, (see Figure 2-5)	2
83201091	Hex Hd Cap Screw, (see Figure 2-5)	8
83201047	Hex Hd Cap Screw, (see Sections 2 & 8)	4
83201169	Hex Hd Cap Screw, (see Section 2 & 3)	2
83201118	Hex Hd Cap Screw, (see Figure 2-5)	1
80321039	Lock Washer 1", (see Section 2 & 3)	4
83623019	O-Ring, (see Section 2 & 3)	6
91123029	O-Ring, (see Figure 2-5)	4
Engine		
80304002	Engine Filter Kit, (see Figure 4-1)	
80374075	Fuel Tank Cap, (see Figure 4-6)	
83953265	Fan, (see Figure 4-1)	
80374015	Drive Belt, (see Figure 4-1)	
Drive Train		
80304026	Bushing, (see Figure 5-12)	2
80304050	Steer Wheel End Bushing, (see Figure 5-15)	2
80304245	O-Ring, (see Figure 5-17)	1
80304235	Wiper, (see Figure 5-17)	2
80304236	U-Ring, (see Figure 5-17)	2
80304237	Guide Ring, (see Figure 5-17)	4
Hydraulics		
84719267	Tool Cyl. Hose Assembly front, (see Figure 8-12)	1
84719174	Tool Cyl. Hose Assembly back, (see Figure 8-12)	1
84719176	Tool Circuit Hose Assy., (see Figure 8-12)	2
80363003	Joystick Assy, R.H., (see Figure 7-1)	1
80363002	Joystick Assy, L.H., (see Figure 7-1)	1
80264127	Joystick Handle Grip Kit, (see Figure 7-1)	1
91404326	Joystick Seal Kit, (see Figure 7-1)	1
80273008	Replacement In-Line Filter Element, (see Figure 9-18)	1
80933068	Hydraulic System Breather, (see Figure 9-18)	1
80373052	Hydraulic Level Gauge, (see Figure 9-18)	1

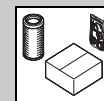


RECOMMENDED SPARE PARTS

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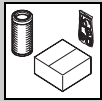
Part Number	Description	Qty./Machine
77133089	Hyd. Mini Check, (see Sections 4 & 8)	11
80233077	Suction Switch, (see Figure 8-1)	1
80933366	Accumulator, (see Figure 8-10)	1
83451129	Male Coupling, (see Figure 8-5)	1
83451128	Female Coupling, (see Figure 8-5)	1
80005087	Tool Cyl. Assembly, (see Figure 9-3)	1
80003626	Tool Cylinder Seal Kit, (Before S/N 0210017815) , (see Figure 9-3)	AR
80004131	Tool Cylinder Seal Kit, (S/N 0210017815 & After) , (see Figure 9-3)	AR
80333104	Brake Valve, (see Figure 9-30)	1
80334038	Solenoid Kit, (see Section 9)	2
80244027	Stator, (see Figure 9-22)	3
80244028	Rotor, (see Figure 9-22)	3
80334091	Coil 12V, (see Section 9)	6
80334092	Sol. Valve Cartridge, (see Section 9)	6
80334099	Cartridge, (see Figure 9-12)	1
80334093	Cartridge, (see Section 9)	2
80003621	Hoist Cylinder Kit, (Before S/N 0210017856) , (see Figure 9-1)	AR
80004106	Hoist Cylinder Kit, (S/N 0210017856 & After) , (see Figure 9-1)	AR
80003608	Telescope Cylinder Kit, (see Figure 9-2)	AR
80334157	Valve Seal Kit, (see Section 9)	3
80334199	Seal Kit, (see Section 9)	2
80334435	Seal Kit, (see Figure 9-14)	1
80334217	Seal Kit, (see Figure 9-17)	1
80334370	Seal Kit, (see Figure 9-17)	1
80334218	Seal Kit, (see Figure 9-17)	1
80334219	Seal Kit, (see Figure 9-17)	1
80334153	Relief Valve, (see Figure 9-14)	1
80334404	Center Pin Kit, (see Figure 9-28)	1
80334403	Coil, (see Figure 9-39)	2
80334401	Propel Pilot Kit, (see Figure 9-39)	1
80334158	Spring Retainer, (see Figure 9-14)	1
80934039	Solenoid Cartridge Seal Kit, (see Figure 9-34)	1
80274011	Switch, (see Section 9)	2
80003738	Blade Cylinder Seal Kit, (Before S/N 0210017716) , (see Figure 9-7)	AR
80004099	Blade Cylinder Seal Kit, (S/N 0210017716 & After) , (see Figure 9-7)	AR
80334511	Solenoid, (see Section 9)	6
91204190	Kit, (see Section 9)	AR
80334223	Coil, (see Section 9)	3
80003728	Outrigger Cylinder Seal Kit, (Before S/N 0210017815) , (see Figure 9-4)	AR
80004061	Outrigger Cylinder Seal Kit, (S/N 0210017815 & After) , (see Figure 9-4)	AR
80003720	Oscillation Cylinder Kit, (Before S/N 0210017815) , (see Figure 9-5)	1
80004119	Oscillation Cylinder Kit, (S/N 0210017815 & After) , (see Figure 9-5)	1
80334519	Drive Motor Seal Kit, (see Figure 9-27)	1
80334380	Transmission Control Valve Seal Kit, (see Figure 9-31)	1
80303074	Cartridge, (see Figure 9-37)	1
80004031	Cartridge, (see Figure 9-37)	1
80933061	Hydraulic Level Probe, (see Section 9)	2

RECOMMENDED SPARE PARTS



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Part Number	Description	Qty./Machine
80333099	Duel Solenoid Block, (see Figure 9-35)	1
80933050	Solenoid Valve, (see Figure 9-34)	1
80974021	Thermal Bypass Valve Kit, (see Figure 9-38)	1
80333021	Suction Strainer, (see Section 9)	2
	Electrical	
80973108	Alternator, (see Figure 4-1)	1
91413104	Starter, (see Figure 4-1)	1
77383377	Starter Solenoid, (see Figure 4-1)	1
80373024	Water Temp Sender (see Figure 4-1)	1
80963220	Hydraulic Temp Sender, (see Figure 9-18)	1
91033246	Oil Pressure Sender, (see Figure 4-1)	1
91033317	Ignition Switch, (see Figure 6-4)	1
91143357	Horn, (see Figure 10-1)	1
80363023	Monitor, (see Figure 6-5)	1
91143130	Hour Meter, (see Figure 6-5)	1
80363162	Printed Circuit Board, (see Figure 6-5)	1
77363265	Relay, (see Figure 10-2)	9
80263041	Time Delay Relay, (see Figure 10-2)	1
91403304	Toggle Switch, (see Figure 6-4)	7
80365027	Potentiometer, (see Figure 6-4)	3
91403320	Switch DPDT, (see Figure 6-4)	1
80363132	Switch, (see Figure 6-4)	1
80964001	Heater Switch, (see Figure 6-4)	1
80363030	Mini-Rocker Switch, (see Sections 6 & 12)	7
80363069	Knob, (see Figure 6-4)	3
80363029	Knob, (see Figure 6-4)	1
80363045	Knob, (see Figure 6-4)	1
91403420	Backup Alarm, (see Figure 10-1)	1
77383999	Elect. Foot Pedal, (see Figure 7-2)	1
80363138	Microprocessor, (see Figure 10-1)	1
86983041	Circuit Breaker, (see Sections 10 & 12)	5
80364157	L.H. Control Switch, (see Figure 7-2)	1
80364158	Turn Signal Switch, (see Figure 7-2)	1
80363166	Switch, (see Figure 6-9)	1
80333165	Pressure Switch, (see Figure 1-2)	1
80334448	Pressure Switch, (see Figure 9-30)	1
80334456	Pressure Switch, (see Figure 9-30)	1
80333100	Pressure Switch, (see Sections 8 & 9)	4
80333101	Pressure Switch, (see Figure 8-3)	1
	Misc	
80904003	Hydraulic Test Kit	1
24604083	ORS O-Ring Kit	1
90214009	O-Ring Kit	1
80904001	XL O-Ring Kit	1
33004001	Parts Manual	1



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Part Number	Description	Qty./Machine
33004006	Service Manual	1
33004005	Operator & Safety Manual	1
80263081	Wiper Motor, (see Sections 6 & 12)	2
80364008	Front Window Glass, (see Figure 6-1)	1
80364002	Lower Front Window Glass, (see Figure 6-1)	1
80263080	Wiper Arm, (see Sections 6 & 12)	2
80363046	Wiper Blade, (see Figure 12-13)	1
91404326	Seal Kit, (see Figure 7-1)	1
80334588	Steering Control Kit, (see Figure 7-3)	1
83623018	O-Ring, (see Figure 2-5)	2
80253003	Lock, (see Section 3)	10
80303061	Swing Light (Left), (see Sections 1 & 11)	2
80303062	Swing Light (Right), (see Sections 1 & 11)	2
80963050	Flood Light, (see Section 12)	6
80263053	Frame Mirror, (see Sections 1 & 11)	2
80263054	Cab Mirror, (see Section 11)	2
80305008	Tool Kit, (includes the following items)	
85041300	Grease Gun	1
85041301	Hose & Coupling	1
85041302	Grease Cartridge	2
85041356	Box Wrench, 1-7/8"	1
86641304	Open Gear Lube	1
86641305	Gear Lube Gun	1
80421115	Spider Nut Wrench	1
83623027	Dust Plug	1
83451128	Female Quick Coupling	1
14404645	Boeshield, (12 oz.)	1

PART NUMBER INDEX



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24921332	8-3	77141014	4-23	77344017	9-59, 9-61	80003633	9-7, 9-9
33004001	11-3, 11-8	771430031-12, 1-15, 4-4, 4-8,		77344019	9-59, 9-61	80003634	9-7, 9-9
33004002	11-8	4-9, 4-23, 6-12,		77344055	9-59, 9-61	80003635	9-7, 9-9
33004003	11-10	7-8, 7-12, 9-33,		77363038	9-51, 9-53	80003636	9-7, 9-9
33004005	11-3	10-3, 12-3		77363111	8-3	80003637	9-7, 9-9
33004006	11-3	77143004	4-3, 4-7, 8-35	77363225	10-5, 10-7	80003638	9-3
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7024380	9-81, 9-83	12-13, 12-34		77383472	12-21	80003691	1-4, 12-27
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GRADALL®

*Gradall Industries, Inc.
406 Mill Ave SW
New Philadelphia OH. 44663
USA*

*Phone: (330) 339-2211
Customer Support Toll Free: (800) 445-4752
Fax: (330) 339-3579*
