

GRADALL[®]

Illustrated Parts Manual

Model XL4300 II

S/N 4300001 thru 4300028,
0210017429 thru 0210018098
& 4300000029 & After

P/N - 80434001

*Revised
November 17, 2009*

EFFECTIVITY PAGE

March 4, 2005 - A - Revised Manual

July 29, 2005 - B - Revised Manual

September 1, 2005 - C - Revised Manual

January 5, 2006 - D - Revised Manual

December 6, 2006 - E - Revised Manual

March 9, 2007 - F - Revised Manual

June 27, 2007 - G - Revised Manual

September 25, 2007 - H - Revised Manual

November 26, 2008 - I - Revised Manual

February 12, 2009 - J - Revised Manual

November 17, 2009 - K - Revised Manual

EFFECTIVITY PAGE

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SERVICE KITS

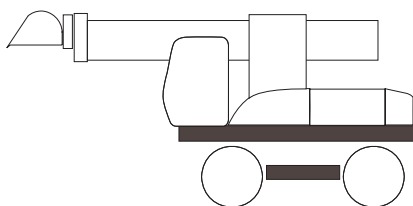
Section	Page No.	Part No.	Description
2	2-11	80325009	Boom End Kit
4	4-16	80474018	Engine Filter Kit
5	5-53	80304263	Universal Joint Kit
9	9-3	80443004	Hoist Cylinder Packing Kit, (Before S/N 0210017848)
9	9-5	80004144	Hoist Cylinder Packing Kit, (S/N 0210017848 & After)
9	9-7	80223073	Boom Cylinder Packing Kit
9	9-11	80423031	Tool Cylinder Packing Kit, (Before S/N 0210017848)
9	9-13	80004086	Tool Cylinder Packing Kit, (S/N 0210017848 & After)
9	9-15	80003728	Outrigger Cylinder SealKit, (Before S/N 0210017758)
9	9-17	80004061	Outrigger Cylinder SealKit, (S/N 0210017758 & After)
9	9-19	80433100	Oscillation Cylinder Seal Kit, (Before S/N 0210017758)
9	9-21	80004071	Oscillation Cylinder Seal Kit, (S/N 0210017758 & After)
9	9-25	80434166	Main Pump Seal Kit
9	9-34	80334157	Main Hydraulic Control Valve Seal Kit
9	9-34	80334198	Main Hydraulic Control Valve Seal Kit
9	9-34	80334199	Main Hydraulic Control Valve Seal Kit
9	9-34	80334435	Main Hydraulic Control Valve Seal Kit
9	9-41	80334217	Load Sense Relief Seal Kit
9	9-53	80484089	Swing Motor Seal Kit
9	9-55	80404121	Swing Brake Seal Kit
9	9-61	80424009	Tilt Brake Friction Disc Kit
9	9-61	80424010	Tilt Brake Seal Kit
9	9-61	80424011	Tilt Brake Bearing Kit
9	9-63	80324058	Tilt Motor Seal Kit
9	9-70	80334519	Drive Motor Seal Kit
9	9-73	80334404	Center Pin Seal Kit
9	9-75	80334611	Gear Pump Seal Kit
9	9-77	80334612	CE Gear Pump Seal Kit
9	9-83	80334380	Transmission Control Valve Seal Kit
9	9-87	80334513	Outrigger Selector Valve Seal Kit

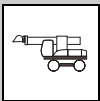
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9	9-87	91204190	Outrigger Selector Valve Solenoid Seal Kit
9	9-93	80934039	Solenoid Valve Cartridge Seal Kit
9	9-95	80334588	Steering Control Seal Kit
11	11-3	80433216	Decal Kit
12	12-3	80463022	A/C General Kit
12	12-3	80363174	A/C Hose Kit w/o O-Rings
12	12-4	80473063	A/C Bolt & Belt Kit
12	12-7	80963089	A/C Evaporator Kit
12	12-11	80003738	Blade Cylinder Packing Kit
12	12-15	80334512	Blade Selector Valve Seal Kit
12	12-15	91204190	Blade Selector Valve Solenoid Seal Kit

SECTION 1

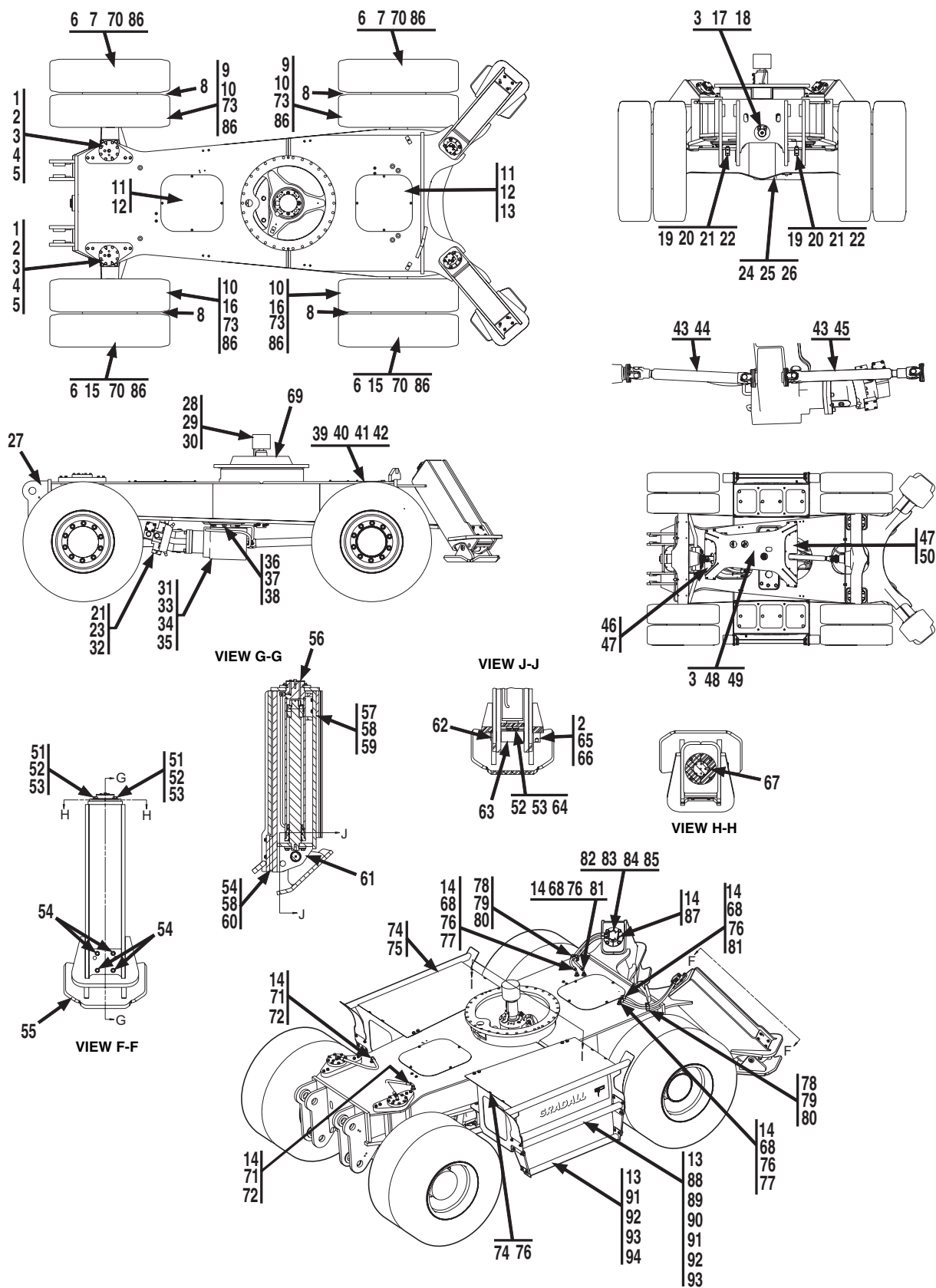
FRAME & ATTACHING PARTS





FRAME & ATTACHING PARTS

Figure 1-1 Frame & Attaching Parts



FRAME & ATTACHING PARTS

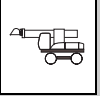


Figure 1-1 Frame & Attaching Parts

Item	Part Number	Qty.	Description	Rev.
1	88201077	8	HEX HD CAPSCREW, 1/2-13X4, GR5, (loctite & torque to 68-78 lb-ft)	
2	88201073	8	HEX HD CAPSCREW, 1/2-13X3, GR5, (loctite & torque to 68-78 lb-ft)	
3	88551013	34	LOCKWASHER, 1/2	
4		Ref	OSCILLATION CYLINDER, (see Figure 9-5 for details)	
5	80431046	2	SPACER	
6	80304001	40	LUG NUT, (torque to 425-450 lb-ft)	
7	80305007	2	R/H OUTER TIRE & WHEEL ASSY, (includes items 70 & 86)	
8	80303071	4	TIRE SPACER	
9	80305006	2	R/H INNER TIRE & WHEEL ASSY, (includes items 73 & 86)	
10	85403068	4	TIRE VALVE EXTENSION	
11	80431039	2	COVER	
12	80271315	4	CAP PLATE	
13	80223034	8	WHIZ-LOK SCREW, 1/2-13X1	
14	88591205	8	O-RING	
15	80305005	2	L/H OUTER TIRE & WHEEL ASSY, (includes items 70 & 86)	
16	80305004	2	L/H INNER TIRE & WHEEL ASSY, (includes items 73 & 86)	
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, M16X2X35mm, GR10.9, (loctite & torque to 231 lb-ft)	
21	83783030	12	LOCKWASHER, M16	
22	80301186	2	AXLE PAD	
23	83191055	4	SOCKET HD CAPSCREW, M16X2X50mm, GR12.9, (loctite & torque to 271 lb-ft)	
24	88671002	1	LUBE FITTING, 1/8-27	
25	80303075	1	AXLE PIN	
26		Ref	FRONT AXLE, (see Figure 5-12 for details)	
27	80436002	1	CHASSIS FRAME WELDMENT	
28	80333125	3	HARDENED WASHER, M16	
29	83191043	3	HEX HD CAPSCREW, M16X2X30mm	
30		Ref	CENTER PIN, (see Figure 9-26 for details)	
31	80333121	3	HARDENED WASHER, M20	
32		Ref	DRIVE MOTOR, (see Figure 9-25 for details)	
33		Ref	TRANSMISSION, (see Figure 5-1 for details)	
34	83193028	1	HEX HD CAPSCREW, M20X2.5X40mm, GR10.9, (loctite & torque to 451 lb-ft)	
35	80333163	2	HEX HD CAPSCREW, M20X2.5X50mm	
36	80306022	1	TRANSMISSION BRACKET WELDMENT	
37	83201038	6	HEX HD CAPSCREW, 3/4-10X4-1/4, GR8	
38	90027473	6	HARDENED WASHER, 3/4	
39		Ref	REAR AXLE, (see Figure 5-18 for details)	
40	80333160	8	HEX HD CAPSCREW, M24X3X230mm, (loctite & torque to 780-830 lb-ft)	
41	80333124	8	HARDENED WASHER, M24	
42	80431013	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 BOLT, 3/8-16X1	
48	80436005	1	SKID PLATE	



FRAME & ATTACHING PARTS

Figure 1-1 Frame & Attaching Parts (Continued)

Item	Part Number	Qty.	Description	Rev.
49	88201067	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
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	80433189	4	ADAPTER, 45 DEGREES	
69	80413010	1	BEARING COVER	
70	80303002	4	OUTER WHEEL	
71	88662330	2	ELBOW, 90 DEGREES, (includes item 14)	
72	84719508	2	HOSE ASSY	
73	80303001	4	INNER WHEEL	
74	80223034	16	WHIZ-LOK BOLT, 1/2-13X3/4, (loctite & torque to 108 lb-ft)	
75	80306021	1	RIGHT STEP WELDMENT	
76	80306017	1	LEFT STEP WELDMENT	
77	84719971	2	HOSE ASSY	
78	77133137	2	COVER PLATE	
79	88201023	2	HEX HD CAPSCREW, 5/16X1-3/4, 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 Figure 9-33 for details)	
86	80303008	8	TIRE, (inflate to 95-105 psi each)	
87	88662193	4	HEX SOCKET HD PLUG, (includes item 14)	
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	

FRAME & ATTACHING PARTS

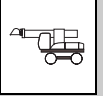
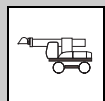


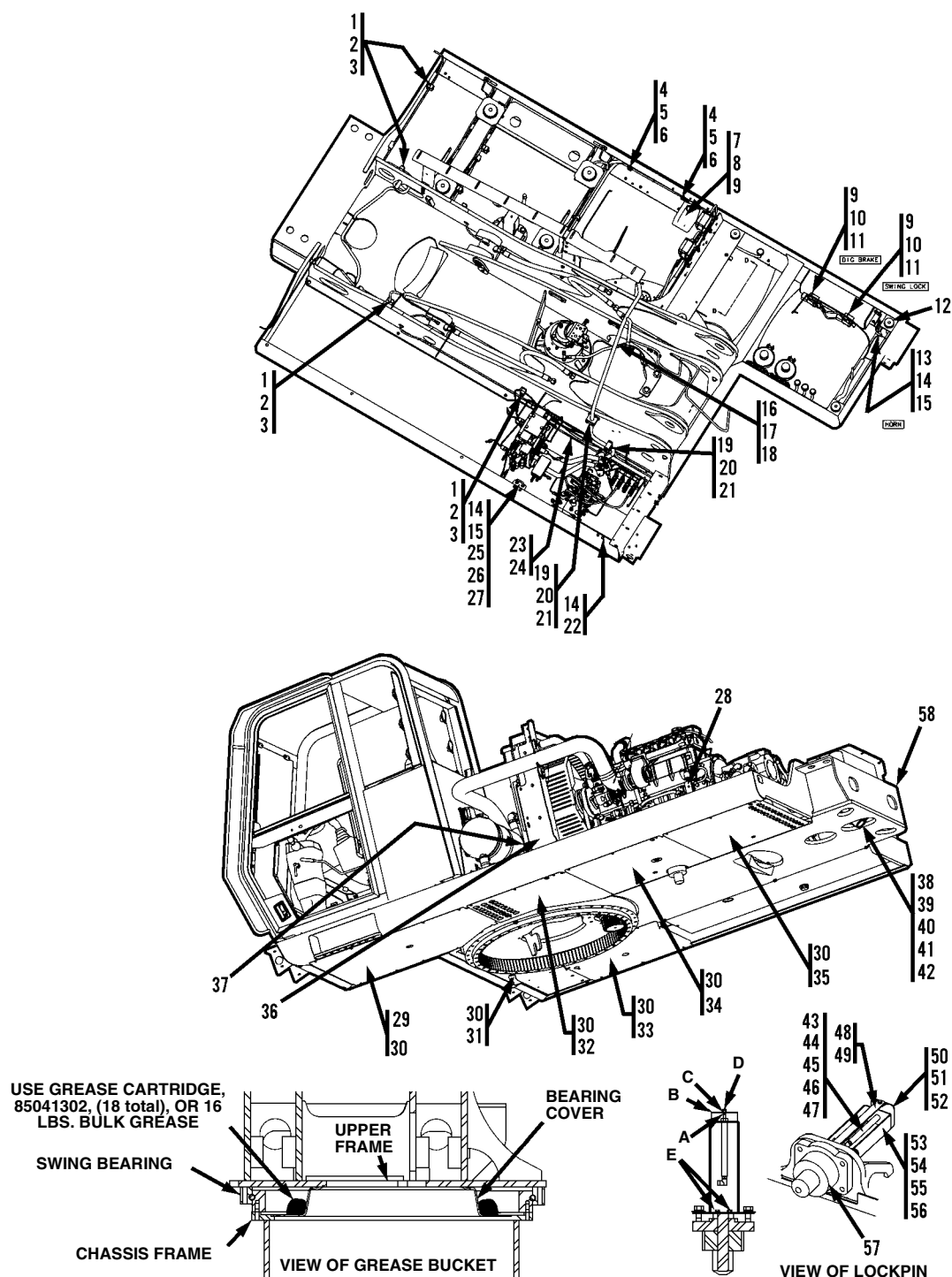
Figure 1-1 Frame & Attaching Parts (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-2 Rotating Platform, R.H. View



NOTE: LOCKPIN MOUNT BRACKET ASSY INSTRUCTIONS: (use loctite #242 on nuts in steps A, C & D)

- INSTALL NUT, (item 46), UNTIL THREADS BOTTOM OUT ON CYLINDER ROD.
- INSTALL LOCKPIN MOUNT BRACKET, (item 50).
- INSTALL NUT, (item 46), UNTIL SNUG, THEN BACK OFF 1/2 TURN.
- INSTALL NUT, (item 46), TO LOCK PREVIOUS NUT; TORQUE NUT TO 11-14 LB-FT, (while holding nut that was backed-off).
- USE LOCTITE #242 ON WHIZ-LOK BOLTS, (item 42), CLAMPING LOCKPIN BRACKET TO LOCKPIN; TORQUE BOLTS TO 17-22 LB-FT.

FRAME & ATTACHING PARTS

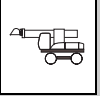


Figure 1-2 Rotating Platform, R.H. View

Item	Part Number	Qty.	Description	Rev.
1	77133053	4	CLAMP SET, 3/4	
2	77133052	4	COVER PLATE	
3	77133209	4	HEX HD CAPSCREW, 1/4-20X1-3/8, GR5	
4	77133279	3	CLAMP SET, 1"	
5	77133137	3	COVER PLATE	
6	88201023	3	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
7	83683085	1	WASHER BOTTLE	
8	88201002	4	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
9	88561002	8	FLAT WASHER, 1/4	
10		Ref	SOLENOID VALVE ASSY, (see Figure 9-35 for details)	
11	88201008	4	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
12		Ref	ENGINE MOUNTING, (see Figure 4-1 for details)	
13	91143357	1	HORN	
14	91363018	5	WHIZ-LOK BOLT, 5/16-18X1	
15	77143006	3	WHIZ-LOK NUT, 5/16-18	
16	84716547	1	HOSE ASSY	
17	80243019	1	ADAPTER	
18	77343070	1	VENT	
19	83253009	2	CLAMP SET, 1"	
20	83253010	2	COVER PLATE	
21	88201040	4	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5	
22	80471056	1	STRUT BRACKET	
23	84719896	1	HOSE ASSY	
24	88743041	4	MALE ELBOW, 90 DEGREES, 1/8X1/4 TUBE	
25	80371194	1	LATCH SUPPORT	
26	83663190	1	U-BOLT, 3/8-16	
27	77143015	4	WHIZ-LOK NUT, 3/8-16	
28	80263012	2	WHIZ-LOK BOLT, 1/4-20X1/2	
29	80471008	1	CAB BELLYPAN	
30	80303094	26	WHIZ-LOK BOLT, 3/8-16X3/4	
31	80471009	1	HOSE TRAY COVER	
32	80471010	1	MIDDLE BELLYPAN	
33	80471011	1	VALVE BELLYPAN	
34	80471047	1	BELLYPAN	
35	80471006	1	REAR BELLYPAN	
36	80373038	1	SIDE FOAM BLOCK	
37	80373037	1	BOTTOM FOAM BLOCK	
38	91404320	1	TRAVEL ALARM	
39	80341141	1	ALARM BRACKET	
40	91143357	1	HORN	
41	88201020	2	HEX HD CAPSCREW, 5/16-18X5/8, GR5	
42	77143003	2	WHIZ-LOK BOLT, 5/16-18X5/8	
43	88591202	1	O-RING	
44		Ref	SWING LOCK CYLINDER, (see Figure 9-6 for details)	
45	88501408	1	HEX JAM NUT, 1/2-20	
46	88501404	3	HEX JAM NUT, 1/4-28	
47	88662328	1	ELBOW, 90 DEGREES, (includes item 43)	
48	80381132	1	BRACE	
49	80263012	2	WHIZ-LOK BOLT, 1/4-20X1/2	



FRAME & ATTACHING PARTS

Figure 1-2 Rotating Platform, R.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.
50	80371131	1	LOCKPIN BRACKET	
51	80371128	1	LOCKPIN	
52	77143003	8	WHIZ-LOK BOLT, 5/16-18X5/8	
53	80441058	1	CYLINDER MOUNT BRACKET	
54	88561113	4	FLAT WASHER, 5/8	
55	88551015	4	LOCKWASHER, 5/8	
56	88201099	4	HEX HD CAPSCREW, 5/8-11X2-1/2, GR5	
57	80446009	1	LOCKPIN BRACKET	
58	80446002	1	UPPER FRAME WELDMENT	

FRAME & ATTACHING PARTS

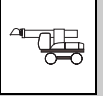
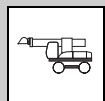


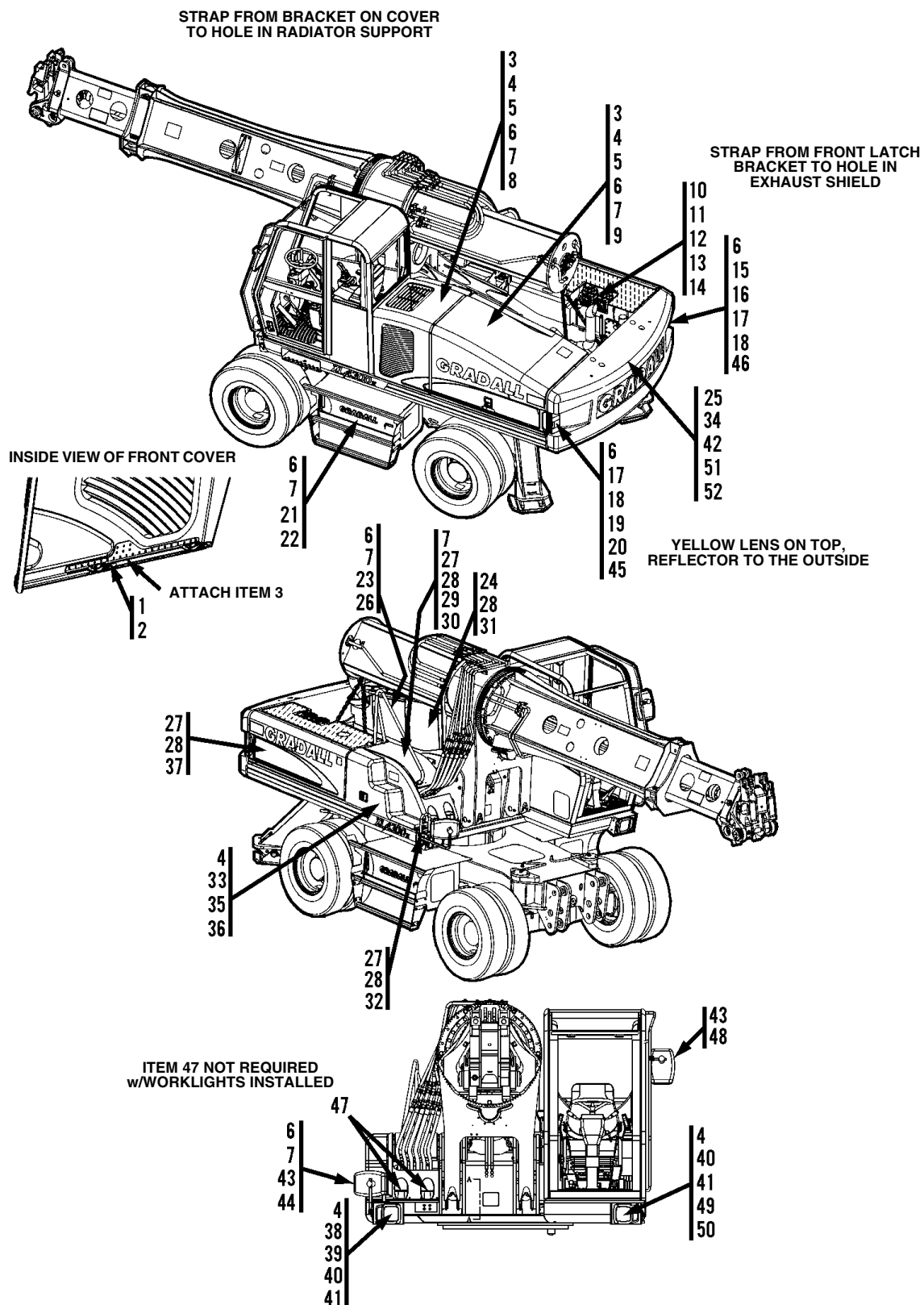
Figure 1-2 Rotating Platform, R.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-3 Rotating Platform, L.H. View



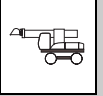


Figure 1-3 Rotating Platform, L.H. View

Item	Part Number	Qty.	Description	Rev.
1	80471076	1	ANGLE BRACKET	
2	91123124	4	WHIZ-LOK BOLT, 5/16-18X1/2	
3	80373160	2	PULL STRAP	
4	91363018	17	WHIZ-LOK BOLT, 5/16-18X1	
5	77143006	4	WHIZ-LOK NUT, 5/16-18	
6	80973025	31	WHIZ-LOK BOLT, 3/8-16X1	
7	77143015	25	WHIZ-LOK NUT, 3/8-16	
8		1	FRONT COVER, (see Figure 1-8 for details)	
9	80473056	1	ENGINE COVER	
10	80313021	1	HOLD DOWN CHAIN	
11	80313022	2	DOUBLE CLEVIS LINK	
12	80313023	1	ANCHOR SHACKLE	
13	83793034	1	LARGE HITCH PIN CLIP	
14	83211042	2	SMALL HITCH PIN CLIP	
15	80431049	1	RIGHT TAILLIGHT BRACKET	
16	80303061	1	RIGHT TAILLIGHT	
17	83191012	8	LOCKWASHER, M6	
18	83191019	8	HEX NUT, M6-1	
19	80306024	1	LEFT BRACKET WELDMENT	
20	80303062	1	LEFT TAILLIGHT	
21	80303066	2	TOOLBOX ASSY	
	80303068	1	LATCH	
	91404275	1	KEY	
22	80963307	8	PRY-OUT PLUG	
23	80473045	1	VALVE SIDE GRAB RAIL	
24	80973096	4	WHIZ-LOK BOLT, 3/8-16X1-1/2	
25	83201175	4	HEX HD CAPSCREW, 1-8X16, GR8, (lubricate & torque to 545-595 lb-ft)	
26	80371144	AR	SPACER, 1/8	
	80371145	AR	SPACER, 1/4	
	80371146	AR	SPACER, 3/8	
27	88201035	10	HEX HD CAPSCREW, 3/8-16X1, GR5	
28	88561004	14	FLAT WASHER, 3/8	
29	80473047	1	INSIDE VALVE COVER	
30	80371133	AR	SPACER, 3/8	
	80371140	AR	SPACER, 1/4	
	80371141	AR	SPACER, 1/2	
31	80473066	1	INSIDE ENGINE COVER	
32	80373125	1	GRAB RAIL	
33	80341146	1	SHIM	
34	80241137	4	SPECIAL WASHER	
35	77143006	5	WHIZ-LOK NUT, 5/16-18	
36		1	FRONT VALVE COVER, (see Figure 1-7 for details)	
37	80473055	1	RESERVOIR COVER	
38	80303060	1	RIGHT HEADLIGHT	
39	80301138	1	RIGHT HEADLIGHT BRACKET	
40	88301077	8	ROUND HD MACHINE SCREW, #8-32X1-1/4	
41	88501610	8	HEX NUT, #8-32	
42	80341133	AR	COUNTERWEIGHT SHIM	
43	80363195	2	MIRROR	



FRAME & ATTACHING PARTS

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

Item	Part Number	Qty.	Description	Rev.
44	80363196	1	MIRROR MOUNT	
45	80304474	1	LEFT LENS	
46	80304475	1	RIGHT LENS	
47	80363187	2	HOLE PLUG, 9/16	
48	80363197	1	CAB MIRROR MOUNT	
49	80303059	1	LEFT HEADLIGHT	
50	80301137	1	LEFT HEADLIGHT BRACKET	
51	80440002	1	COUNTERWEIGHT	
52	80341051	2	MOUNTING NUT	

FRAME & ATTACHING PARTS

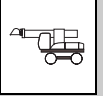
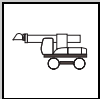


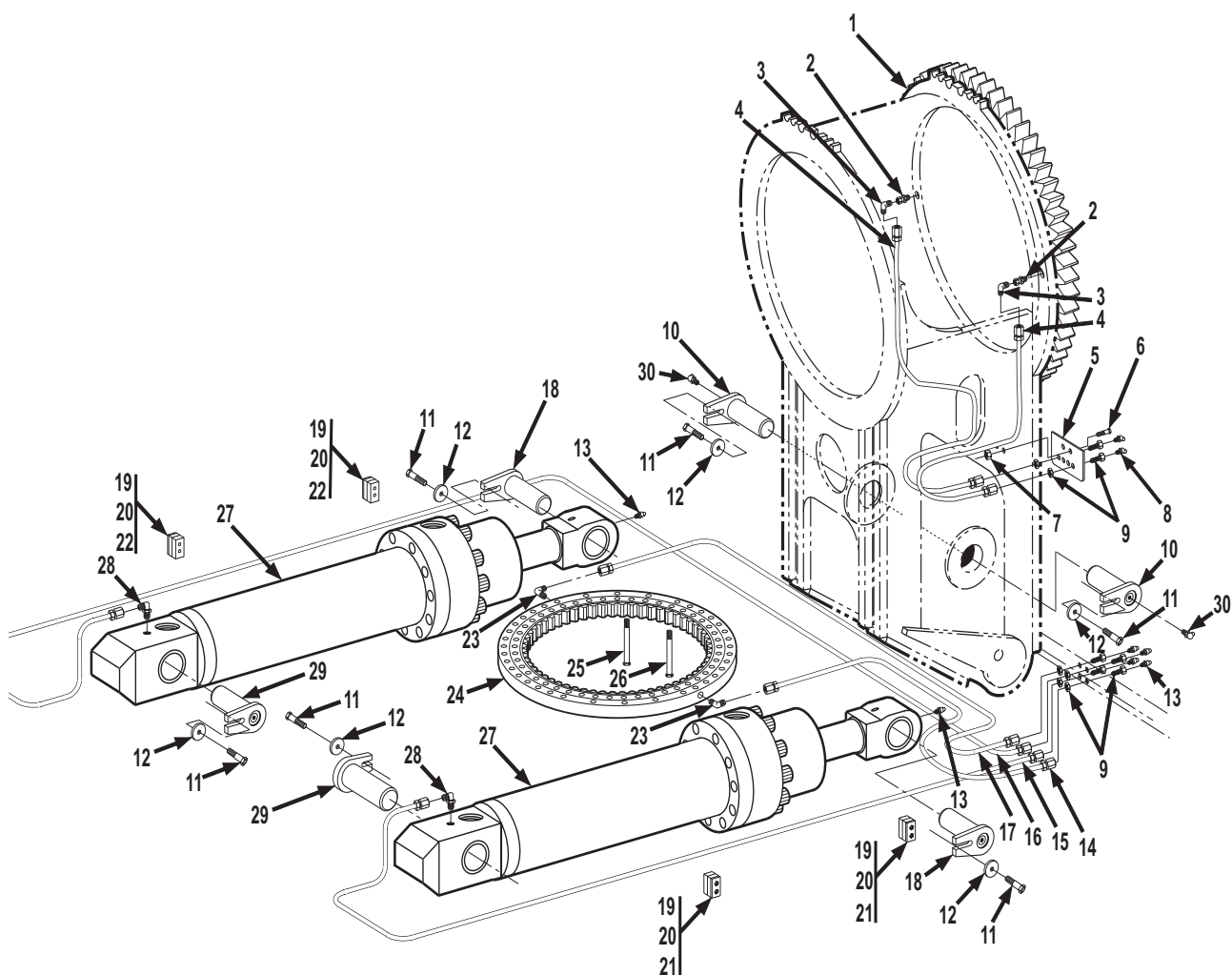
Figure 1-3 Rotating Platform, L.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-4 Swing Bearing, Cradle & Hoist Cylinder Mounting & Lube System



NOTE: ITEM 25 IS USED TO ATTACH THE SWING BEARING TO THE UNDERCARRIAGE; ITEM 26 IS USED TO ATTACH THE UPPERSTRUCTURE TO THE UNDERCARRIAGE.

FRAME & ATTACHING PARTS

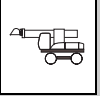


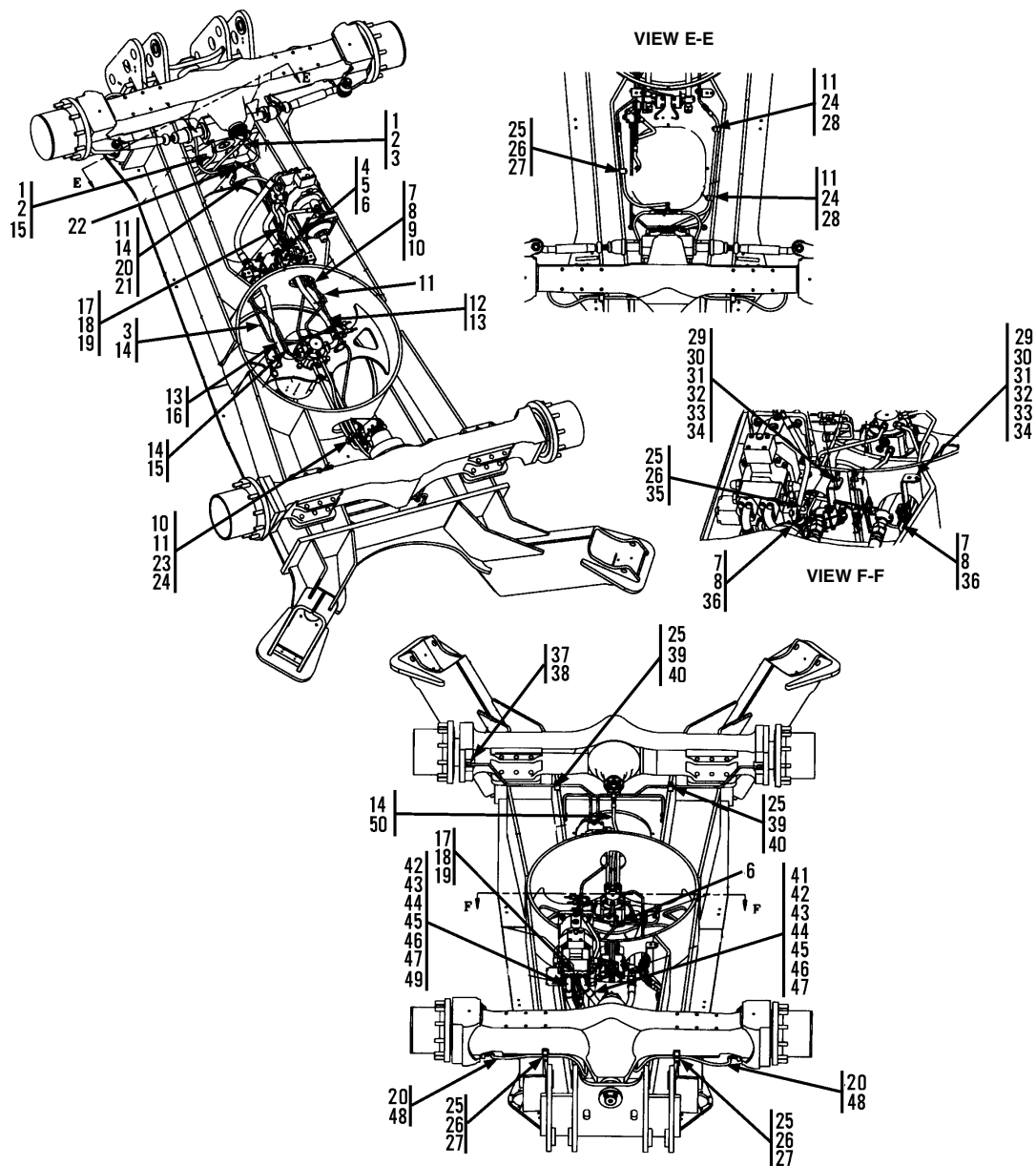
Figure 1-4 Swing Bearing, Cradle & Hoist Cylinder Mounting & Lube System

Item	Part Number	Qty.	Description	Rev.
1		Ref	CRADLE WELDMENT, (see Figure 2-1 for details)	
2	88691302	2	STRAIGHT CONNECTOR, 1-14	
3	88661103	2	MALE ELBOW, 90 DEGREES, 1/4X1/4 TUBE	
4	84719793	2	HOSE ASSY	
5	80421094	1	LUBE FITTING BRACKET	
6	88201039	2	HEX HD CAPSCREW, 3/8-16X2, GR5	
7	88521206	2	HEX LOCKNUT, 3/8-16	
8	88671018	2	LUBE FITTING, 45 DEGREES, 1/8	
9	80623016	6	FEMALE BULKHEAD CONNECTOR	
10	80626014	2	PIN WELDMENT	
11	88201065	6	HEX HD CAPSCREW, 1/2-13X1, GR5	
12	80321089	6	SPECIAL WASHER	
13	88671001	6	LUBE FITTING, STRAIGHT, 1/8	
14	84719899	1	HOSE ASSY	
15	84719898	1	HOSE ASSY	
16	84719897	1	HOSE ASSY	
17	84719896	1	HOSE ASSY	
18	80326011	2	PIN WELDMENT	
19	77133137	4	COVER PLATE	
20	88291023	8	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
21	91213002	2	CLAMP SET	
22	80933123	2	CLAMP SET	
23	88743021	2	MALE ELBOW, 45 DEGREES, 1/8X1/4 TUBE	
24	80443001	1	SWING GEAR	
25	80433131	40	FLAT HD CAPSCREW, 5/8-11X2-1/2, GR8, (lubricate & torque to 200-215 lb-ft)	
26	80323011	32	FLAT HD CAPSCREW, 5/8-11X3-3/4, GR8, (lubricate & torque to 200-215 lb-ft)	
27		Ref	HOIST CYLINDER ASSY, (see Figure 9-1 for details)	
28	88743041	2	MALE ELBOW, 90 DEGREES, 1/8X1/4 TUBE	
29	80926012	2	PIN WELDMENT	
30	88671022	2	LUBE FITTING, 90 DEGREES, 1/8	



FRAME & ATTACHING PARTS

Figure 1-5 Frame & Plumbing



FRAME & ATTACHING PARTS

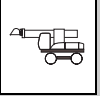
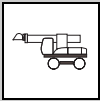


Figure 1-5 Frame & Plumbing

Item	Part Number	Qty.	Description	Rev.
1	84719959	2	HOSE ASSY	
2	80333151	2	ELBOW, 90 DEGREES, (includes o-ring)	
3	80433064	1	LEFT STEER TUBE	
4	88662347	1	RUN TEE	
5	88662438	1	SWIVEL NUT RUN TEE	
6	80433060	1	TUBE ASSY	
7	77133168	3	CLAMP	
8	77133140	3	COVER	
9	88201024	1	HEX HD CAPSCREW, 5/16-18X2, GR5	
10	77143006	1	WHIZ-LOK NUT, 5/16-18	
11	77133136	3	CLAMP	
12	80433049	1	LEFT PROPEL TUBE	
13	80333135	2	METRIC FLANGE KIT	
14	88591506	3	O-RING	
15	80433065	1	RIGHT STEER TUBE	
16	80433050	1	RIGHT PROPEL TUBE	
17	80303085	1	ADAPTER, 90 DEGREES	
18	88662480	1	CONNECTOR, (includes o-ring)	
19	84719966	1	HOSE ASSY	
20	84719963	2	HOSE ASSY	
21	84719962	1	HOSE ASSY	
22	88662434	1	CONNECTOR	
23	88201026	1	HEX HD CAPSCREW, 5/16-18X2.500	
24	77133137	4	COVER	
25	77133499	8	HEX HD CAPSCREW, 1/4-20X1-5/16	
26	77133052	4	COVER PLATE	
27	77133053	3	CLAMP	
28	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
29	91163196	4	WHIZ-LOK BOLT, 3/8-16X1-3/4	
30	77133177	2	HEX BOLT	
31	88201020	4	HEX HD CAPSCREW, 5/16-18X1, GR5	
32	80431025	2	BRACKET	
33	90205792	2	CLAMP, 1.25	
34	80431026	2	CLAMP BRACKET	
35	77133893	1	CLAMP SET	
36	77133177	2	HEX HD CAPSCREW, 5/16-18X1-3/8	
37	80333164	2	ADAPTER, (includes o-ring)	
38	80433057	1	REAR BRAKE TUBE	
39	91033138	2	CLAMP	
40	77133498	4	COVER PLATE	
41	84719969	1	RIGHT PROPEL HOSE	
42	80233293	4	FLANGE HALF	
43	91083339	2	O-RING	
44	83191067	2	HEX HD CAPSCREW, M14X2X45, GR8	
45	83191068	6	HEX HD CAPSCREW, M14X2X130	
46	83191014	8	LOCKWASHER, M14	
47	88591510	2	O-RING	
48	80333130	2	ADAPTER, (includes o-ring)	
49	84719481	1	LEFT PROPEL HOSE	



FRAME & ATTACHING PARTS

Figure 1-5 Frame & Plumbing (Continued)

Item	Part Number	Qty.	Description	Rev.
50	84719961	1	HOSE ASSY	

FRAME & ATTACHING PARTS

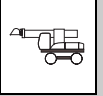
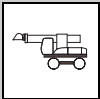


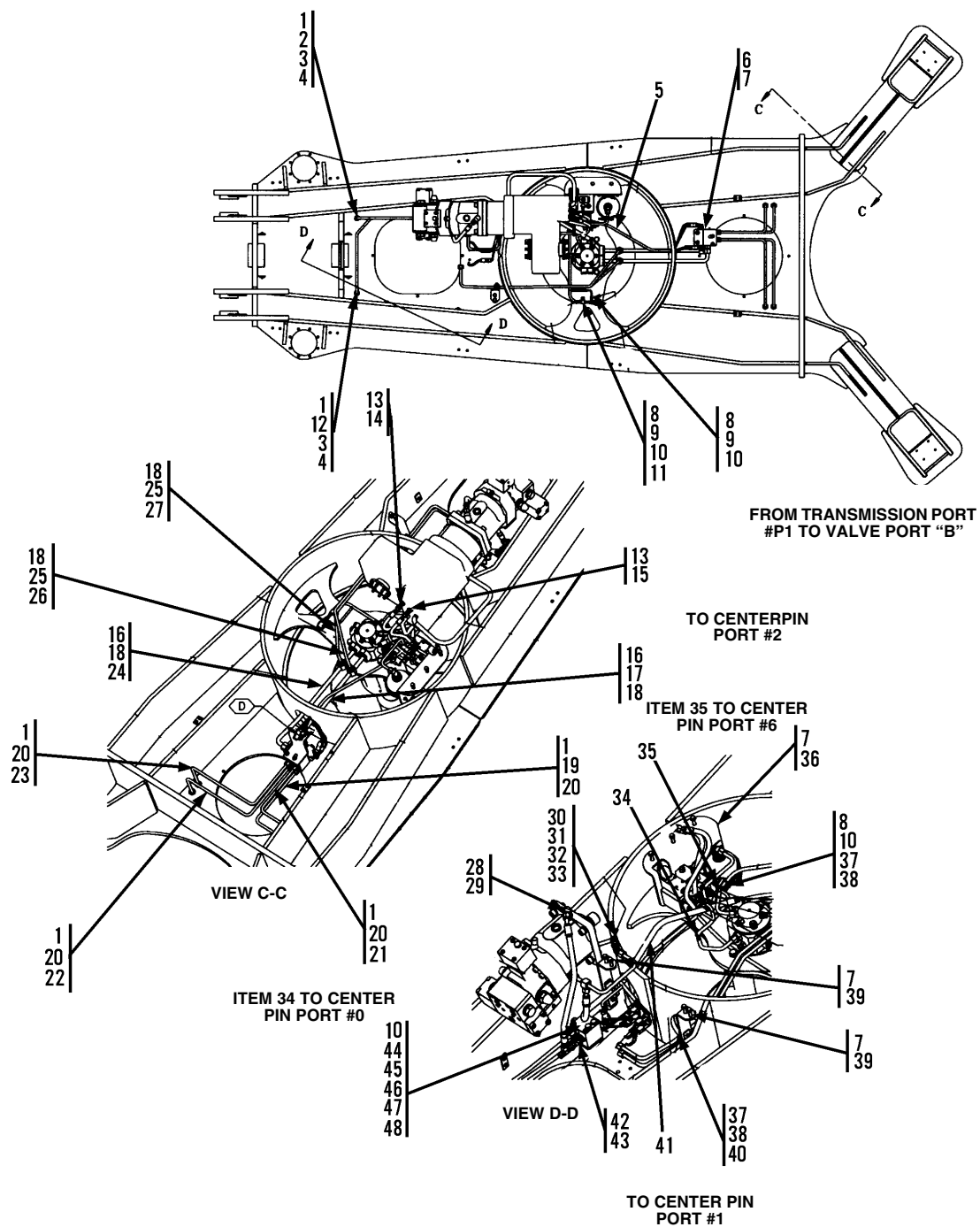
Figure 1-5 Frame & Plumbing (Continued)

Item	Part Number	Qty.	Description	Rev.



FRAME & ATTACHING PARTS

Figure 1-5 Frame & Plumbing



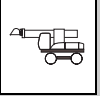
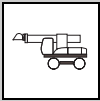


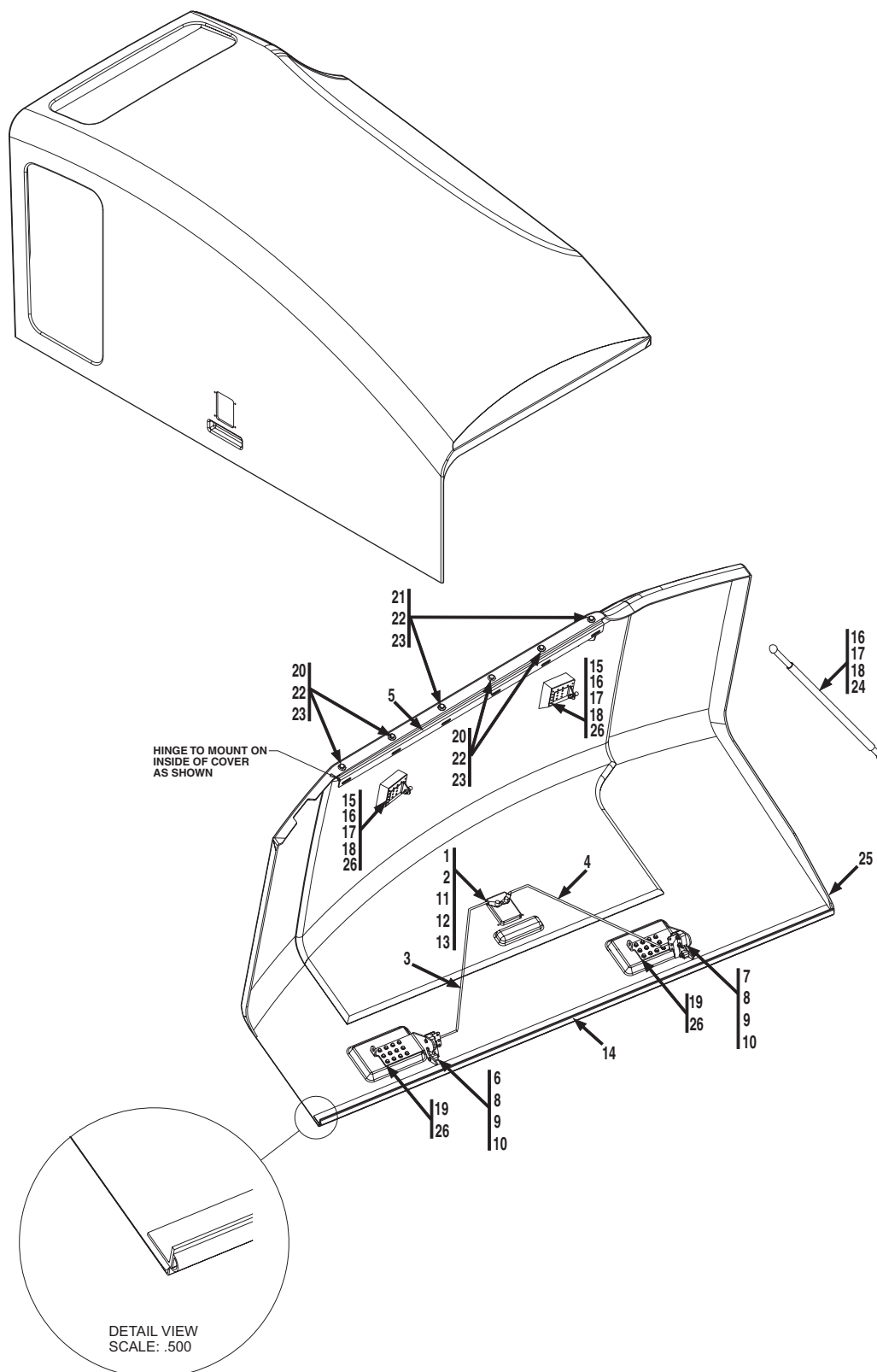
Figure 1-5 Frame & Plumbing

Item	Part Number	Qty.	Description	Rev.
1	88662503	6	BULKHEAD NUT	
2	80433059	1	OSCILLATION BULKHEAD TUBE	
3	88662302	2	CONNECTOR, (includes item 4)	
4	88591205	3	O-RING	
5	80433110	1	WIRING HARNESS	
6		Ref	OUTRIGGER SELECTOR VALVE, (see Figure 9-33 for details)	
7	91163196	9	WHIZ-LOK BOLT, 3/8-16X1-3/4	
8	88201024	3	HEX HD CAPSCREW, 5/16-18X2, GR5	
9	88561003	4	FLAT WASHER, 5/16	
10	77143006	3	WHIZ-LOK NUT, 5/16-18	
11	85941016	1	CLAMP, 1/2	
12	80433058	1	OSCILLATION BULKHEAD TUBE	
13	80333132	2	ADAPTER, 45 DEGREES	
14	84719964	1	HOSE ASSY	
15	84719965	1	HOSE ASSY	
16	80333134	2	METRIC FLANGE KIT	
17	80433065	1	OUTRIGGER SELECT "B" TUBE	
18	88591508	4	O-RING	
19	80433052	1	LEFT OUTRIGGER DOWN TUBE	
20	88591506	4	O-RING	
21	80433051	1	LEFT OUTRIGGER UP TUBE	
22	80433053	1	RT OUTRIGGER DOWN TUBE	
23	80433054	1	RT OUTRIGGER UP TUBE	
24	80433056	1	OUTRIGGER SELECT "A" TUBE	
25	84714018	2	PLUG	
26	80433061	1	TUBE ASSY	
27	80433062	1	TUBE ASSY	
28	84719968	1	HOSE ASSY	
29	80303095	1	ELBOW, 90 DEGREES, (includes o-ring)	
30	88662533	1	ELBOW, 90 DEGREES, (includes o-ring)	
31	80433198	1	TUBE ASSY	
32	88662372	1	ELBOW, 90 DEGREES, (swivel nut)	
33	83193019	1	CONNECTOR	
34	80433156	1	TUBE ASSY	
35	80433156	1	TUBE ASSY	
36		Ref	TRANSMISSION CONTROL VALVE ASSY, (see Figure 9-31 for details)	
37	77133168	5	CLAMP	
38	77133140	2	COVER PLATE	
39	80431027	2	CLAMP BRACKET	
40	77133177	1	HEX BOLT	
41	84719960	1	HOSE ASSY	
42	88662438	1	SWIVEL NUT RUN TEE	
43	88662347	1	RUN TEE, (includes item 4)	
44	91123162	2	HEX HD CAPSCREW, 5/16-18X4-3/4, GR5	
45		Ref	OSCILLATION ANTI-DRIFT VALVE, (see Figure 9-38 for details)	
46	80431051	1	SPACER	
47	88551010	2	LOCKWASHER, 5/16	
48	88521305	2	HEX LOCKNUT, 5/16-18	



FRAME & ATTACHING PARTS

Figure 1-6 Engine Cover



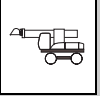
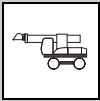


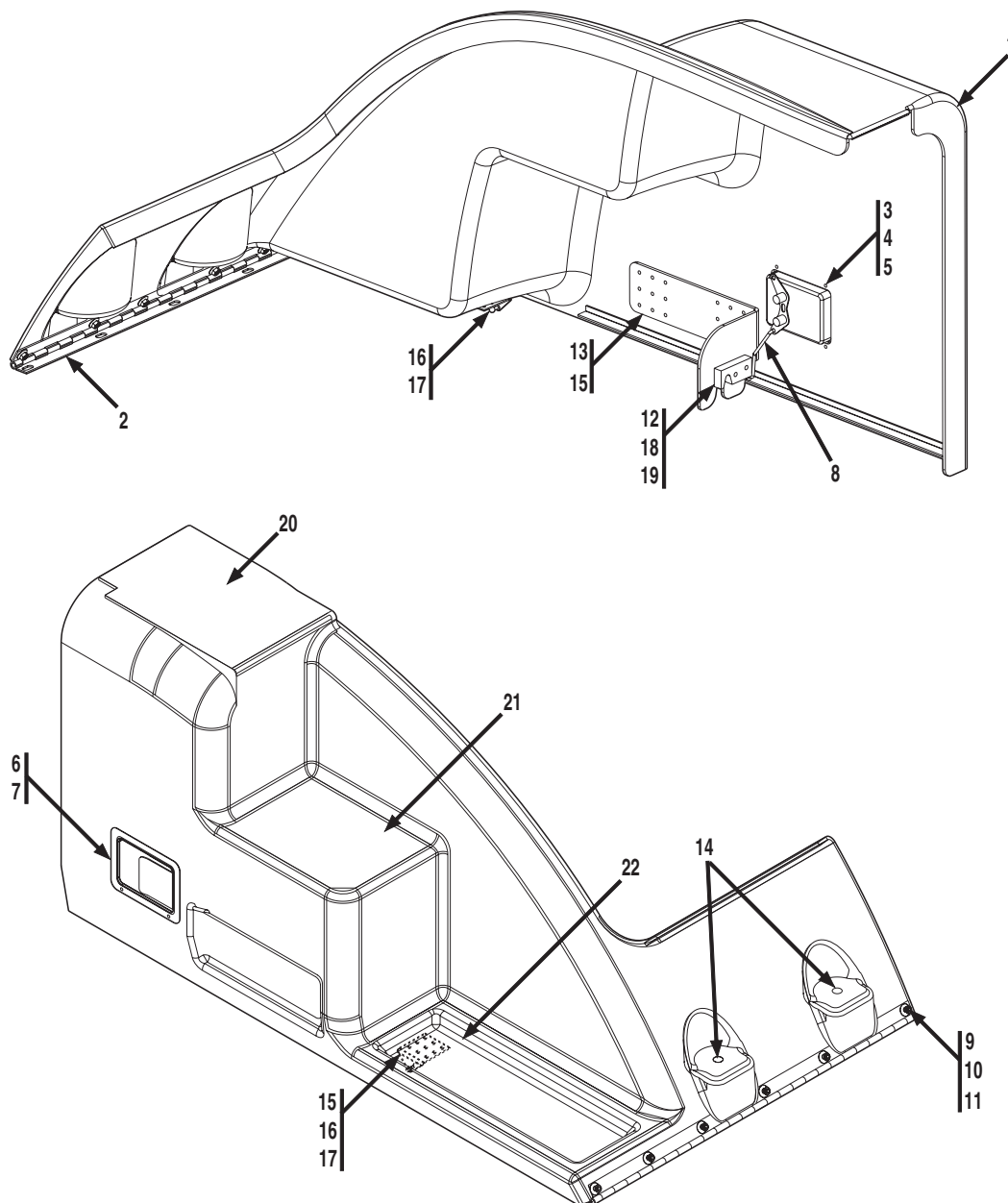
Figure 1-6 Engine Cover

Item	Part Number	Qty.	Description	Rev.
	80473056	1	ENGINE COVER, (includes all items)	
1	91474419	1	PADDLE LOCK	
2	91474417	1	PADDLE LOCK SEAL	
3	80484164	1	LONG ROD, 1/4	
4	80484165	1	SHORT ROD, 1/4	
5	80484178	1	HINGE	
6	80484169	1	ROTARY LOCK, L.H.	
7	80484170	1	ROTARY LOCK, R.H.	
8	88201022	4	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
9	88551010	4	LOCKWASHER, 5/16'	
10	88501005	4	HEX NUT, 5/16-18	
11	88261005	4	SOCKET BUTTON HD CAPSCREW, #8-32X3/4	
12	80484160	4	KREP NUT, #8-32	
13	88561105	4	FLAT WASHER, #10	
14	80484179	1	ANGLE	
15	80484172	2	GAS SPRING BRACKET	
16	80484166	4	BALL, 13MM	
17	88501005	4	HEX NUT, 5/16	
18	88551010	4	LOCKWASHER, 5/16	
19	80374101	2	ROTARY LOCK BRACKET	
20	88261029	4	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
21	80484168	2	SOCKET BUTTON HD CAPSCREW, 3/8-16X1-1/2'	
22	88521306	6	HEX LOCKNUT, 3/8-16	
23	88561109	12	FLAT WASHER, 3/8	
24	91474423	2	GAS SPRING, 210#	
25	80484180	1	SHELL W/ SCREEN, GRILL & ANGLE, (includes item 14)	
26	80484162	40	SHEET METAL SCREW, #10X3/4	
	80484192	1	PLASTIC REPAIR KIT	



FRAME & ATTACHING PARTS

Figure 1-7 Valve Cover



FRAME & ATTACHING PARTS

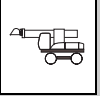
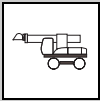


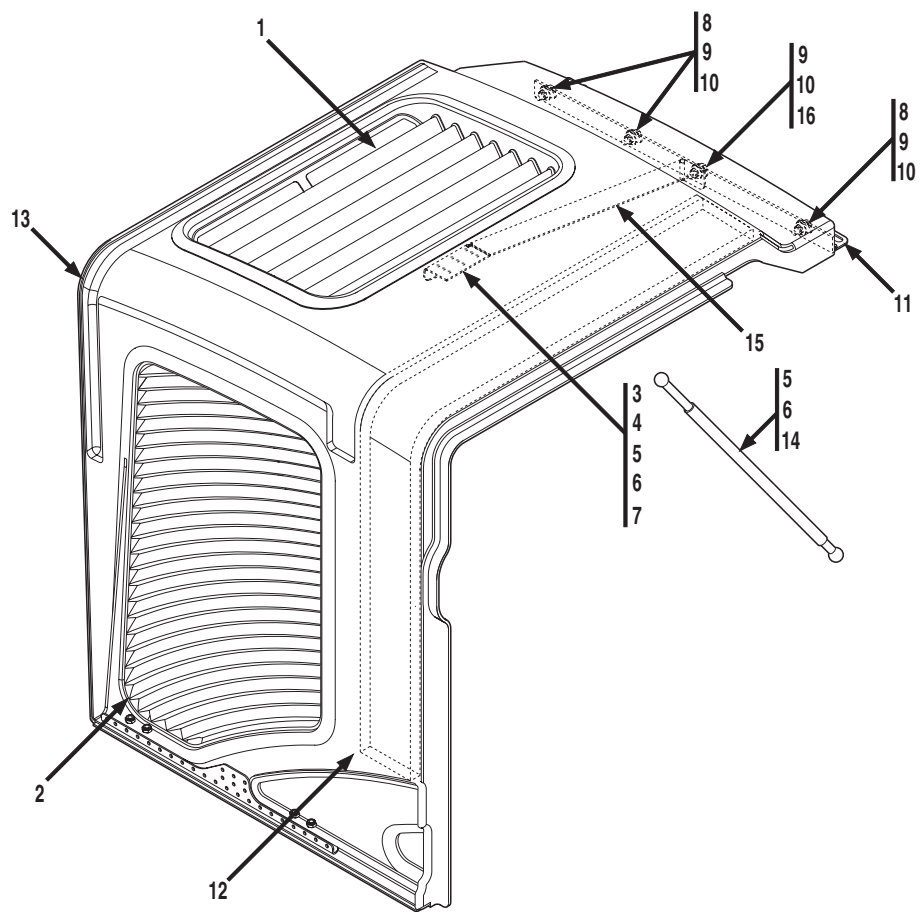
Figure 1-7 Valve Cover

Item	Part Number	Qty.	Description	Rev.
	80373006	1	VALVE COVER, (includes all items)	
1	80484149	1	VALVE COVER SHELL	
2	80374094	1	HINGE	
3	88261005	4	SOCKET BUTTON HD CAPSCREW, #8-32X3/4	
4	80484160	4	KREPNUT, #8-32	
5	88561105	4	FLAT WASHER, #10	
6	91474419	1	PADDLE LATCH	
7	91474417	1	PADDLE LATCH SEAL	
8	80374097	1	ROTARY LOCK ROD, 1/4	
9	88261018	6	SOCKET BUTTON HD CAPSCREW, 1/4-20X1	
10	88561107	12	FLAT WASHER, 1/4	
11	88521004	6	HEX LOCKNUT, 1/4-20	
12	80374096	1	ROTARY LOCK	
13	80374101	1	ROTARY LOCK BRACKET	
14	80484161	2	PLASTIC PLUG, 1/2	
15	80484162	25	HEX SHEET METAL SCREW, #1X3/4	
16	80374095	1	GAS PROP MOUNT BRACKET	
17	80374105	1	BALL STUD, 10MM	
18	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
19	88551009	2	LOCKWASHER, 1/4	
20	80301209	1	NON-SKID TOP STEP	
21	80301208	1	NON-SKID MIDDLE STEP	
22	80301207	1	NON-SKID BOTTOM STEP	
23	80374076	1	GAS PROP, 130#, (not shown)	
	80484192	1	PLASTIC REPAIR KIT	



FRAME & ATTACHING PARTS

Figure 1-8 Front Cover



FRAME & ATTACHING PARTS

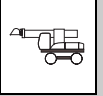
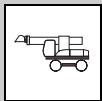


Figure 1-8 Front Cover

Item	Part Number	Qty.	Description	Rev.
	80473009	1	FRONT COVER, (includes all items)	
1	80484182	1	TOP LOUVER	
2	80484183	1	SIDE LOUVER	
3	80484172	1	GAS SPRING BRACKET	
4	80484166	2	BALL STUD, 13MM	
5	88501005	2	HEX NUT, 5/6-18	
6	88551010	2	LOCKWASHER, 5/16	
7	80484162	8	SHEET METAL SCREW, #10-3/4	
8	88261029	3	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
9	88521006	4	HEX LOCKNUT, 3/8-16	
10	88561109	4	FLAT WASHER, 3/8	
11	80484184	1	HINGE	
12	80484185	1	FOAM	
13	80484186	1	FIBERGLASS SHELL	
14	80484167	1	GAS PROP, 210#	
15	80484187	1	BRACKET	
16	80484168	1	SOCKET BUTTON HD CAPSCREW, 3/8-16X1-1/2	
	80484192	1	PLASTIC REPAIR KIT	

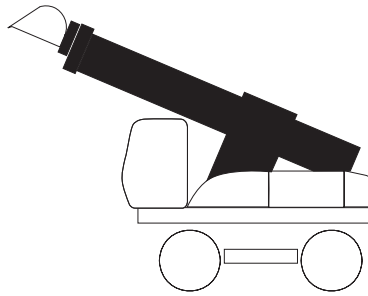


FRAME & ATTACHING PARTS

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SECTION 2

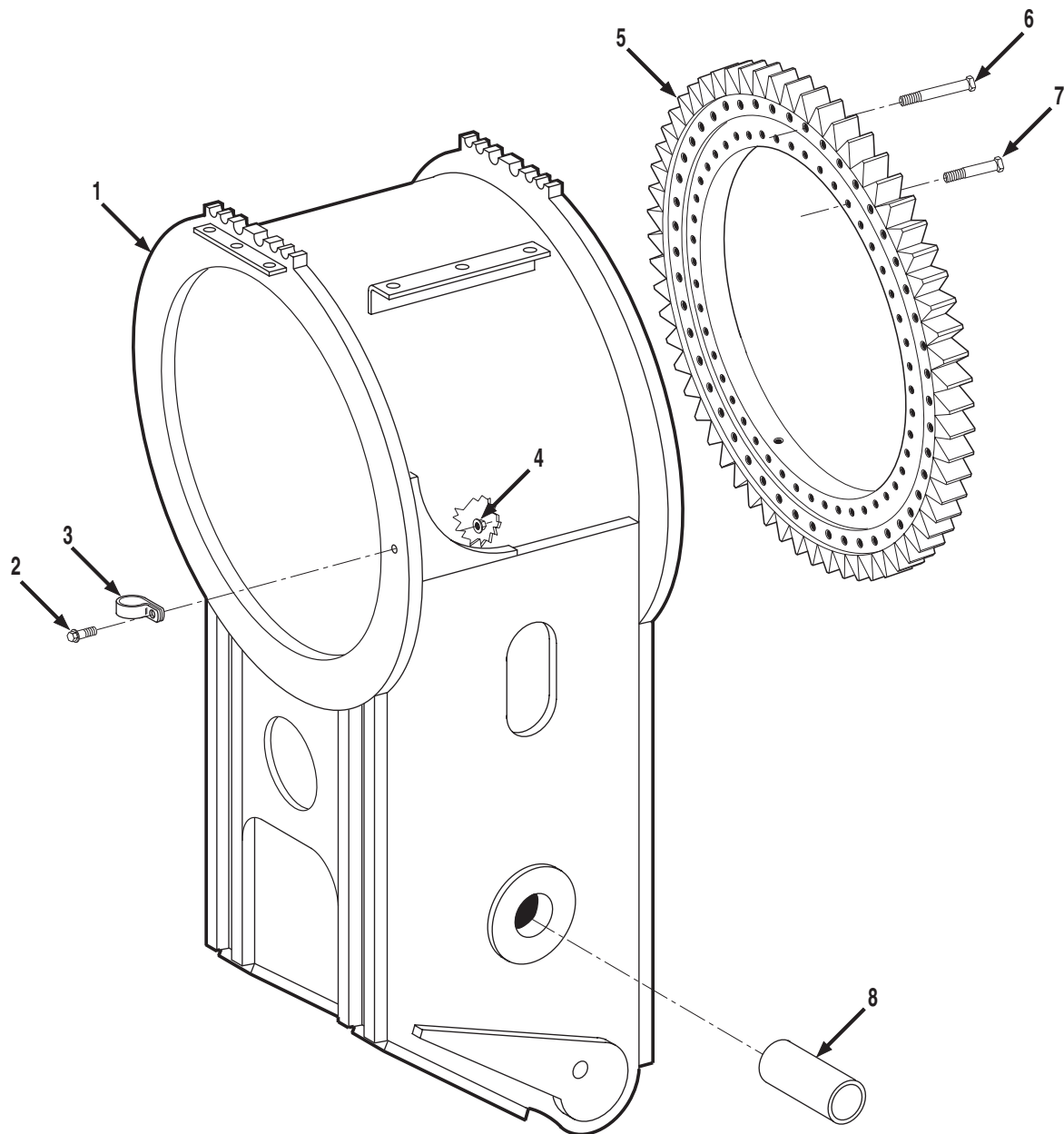
BOOM





BOOM

Figure 2-1 Boom Cradle



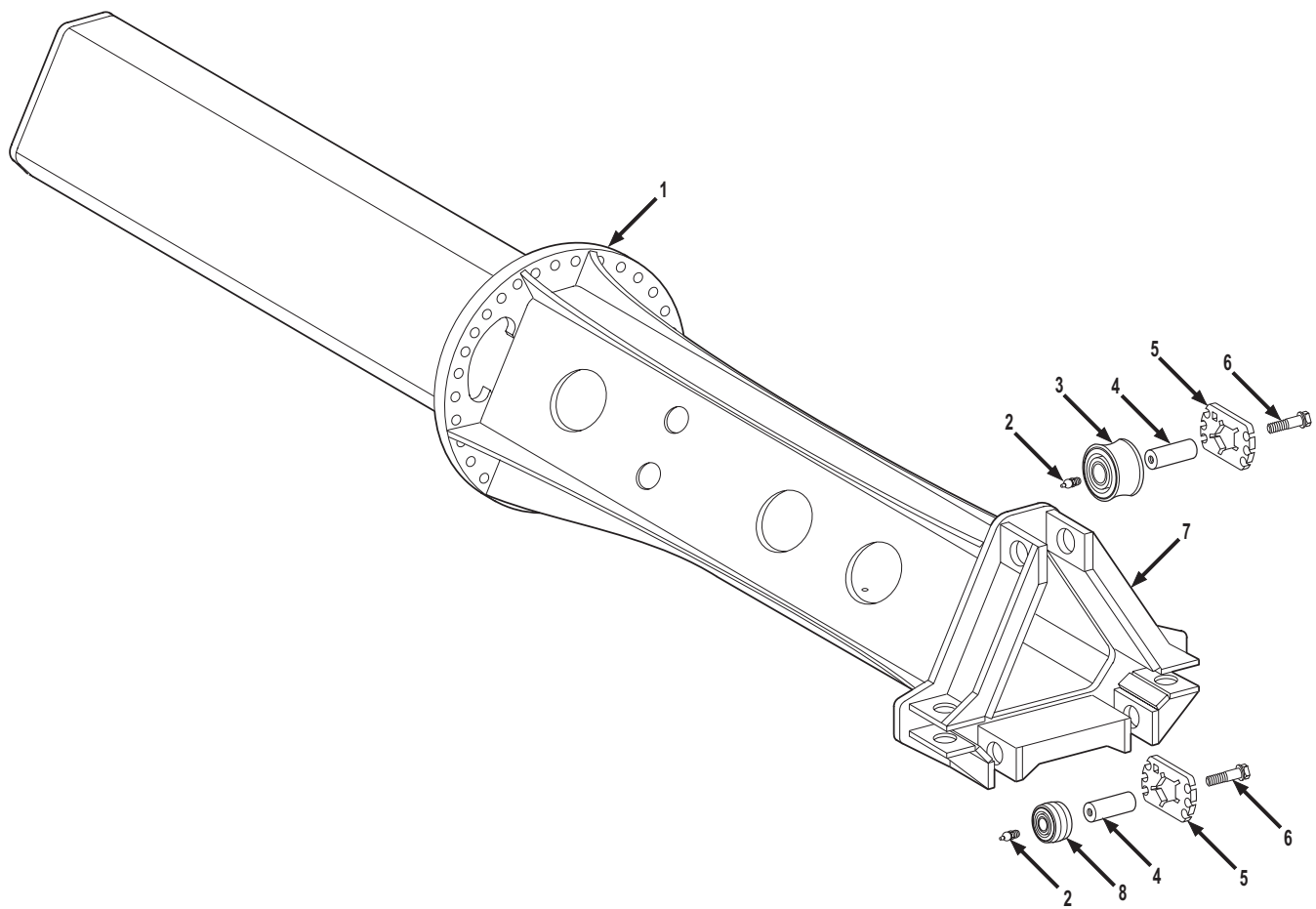
**Figure 2-1 Boom Cradle**

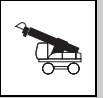
Item	Part Number	Qty.	Description	Rev.
1	80426010	1	BOOM CRADLE	
2	80973096	1	WHIZ-LOK BOLT, 3/8-16X1-1/2	
3	86521144	1	SUPPORT CLAMP	
4	77143015	1	WHIZ-LOK NUT, 3/8-16	
5	80423001	1	TILT GEAR	
6	80323013	18	HEX HD CAPSCREW, 3/4-10X5, GR8	
7	83201058	30	HEX HD CASPCREW, 3/4-10X3-3/4, GR8, (lubricate & torque to 340-365 lb-ft)	
8	80923009	2	BUSHING	



BOOM

Figure 2-2 Main Boom Assembly & Rollers



**Figure 2-2 Main Boom Assembly & Rollers**

Item	Part Number	Qty.	Description	Rev.
1	80426005	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	80421109	5	ROLLER ADJUSTMENT PLATE	
6	80223035	10	FLANGE BOLT, 1/2-13X3/4, GR8	
7	80426006	1	ROLLER BRACKET WELDMENT	
8		Ref	BOOM ROLLER ASSY, CONVEX, (see Figure 2-4 for details)	



BOOM

Figure 2-3 Telescope Boom Assembly

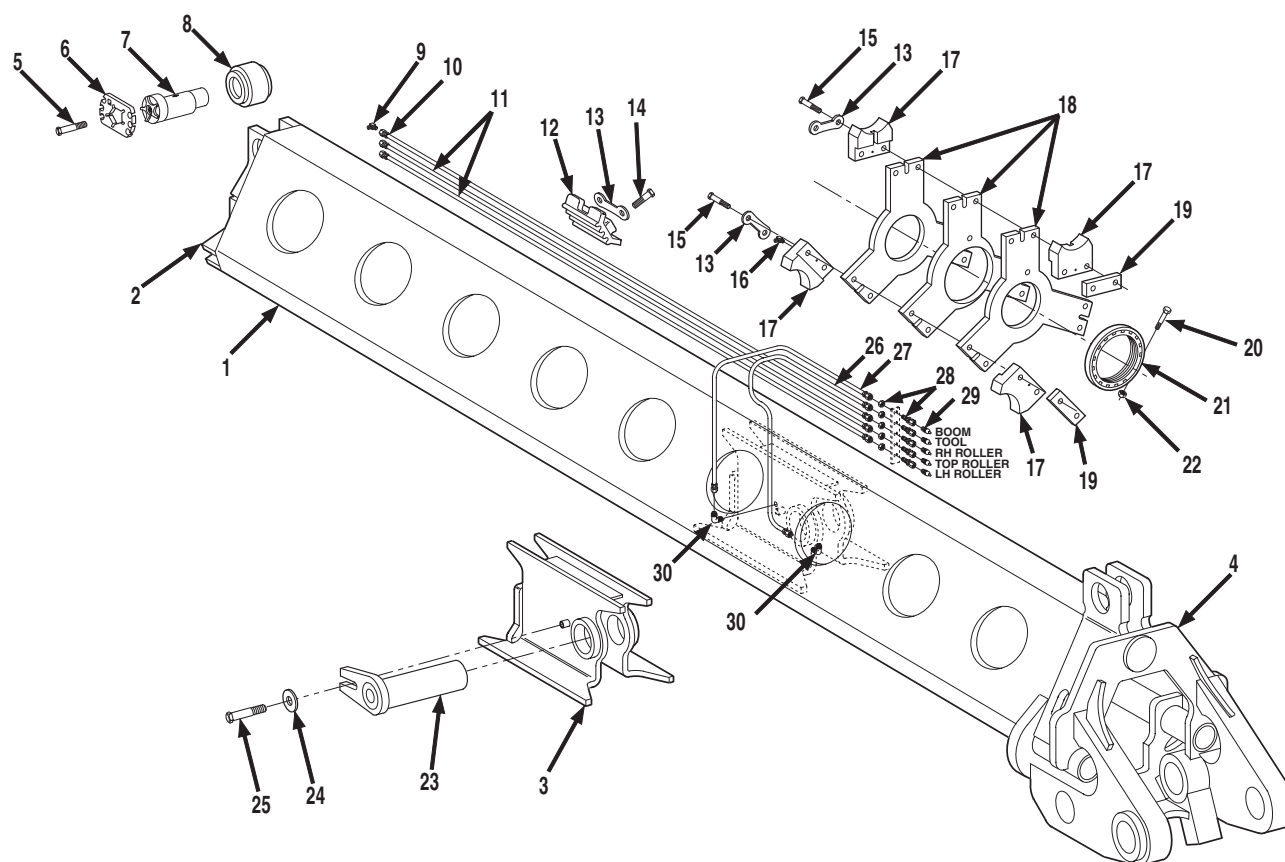




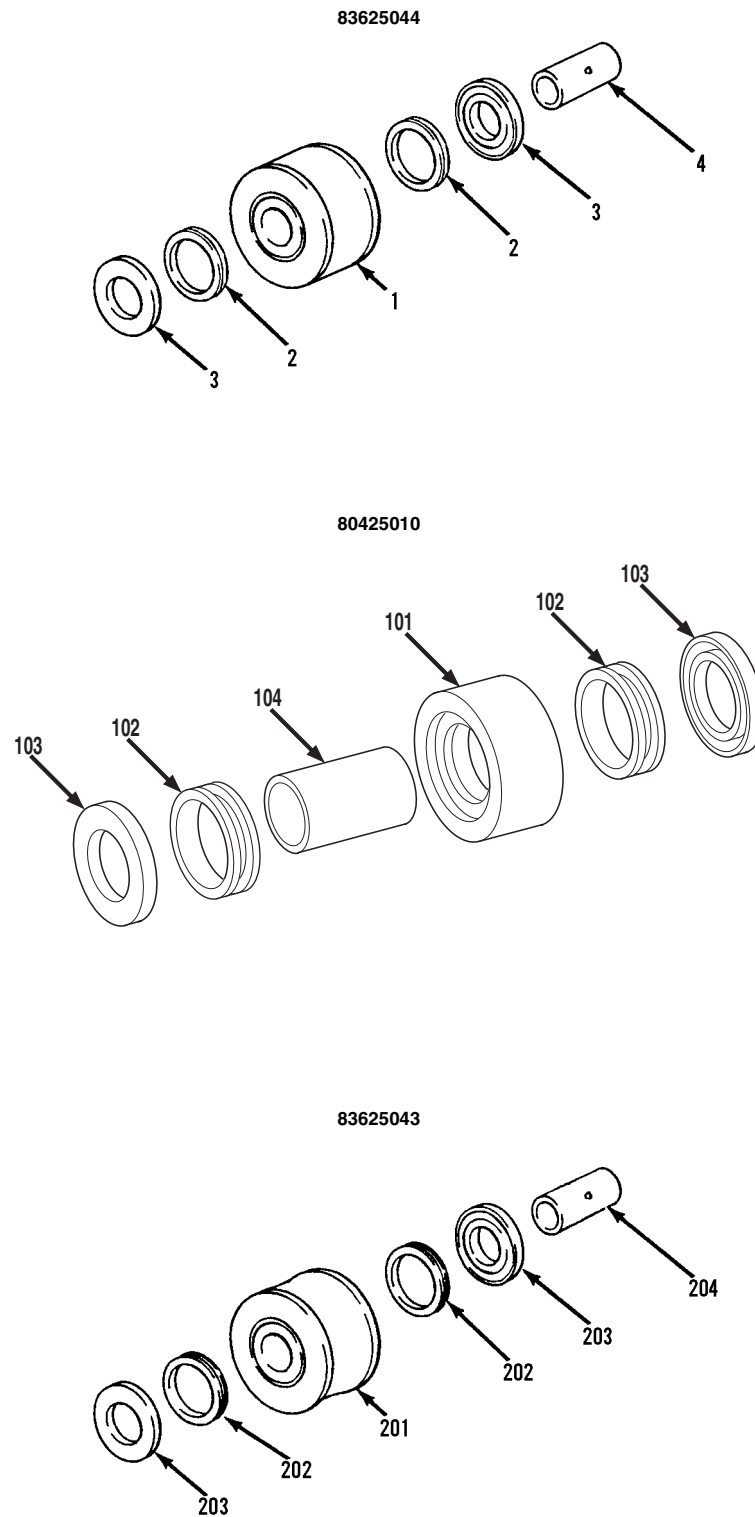
Figure 2-3 Telescope Boom Assembly

Item	Part Number	Qty.	Description	Rev.
1	80426001	1	TELESCOPE BOOM WELDMENT, (includes items 2 thru 4)	
2	80426004	1	ROLLER BRACKET	
3	80426003	1	CYLINDER MOUNT	
4	80426002	3	TOOL EYE WELDMENT	
5	80223035	6	FLANGE HD CAPSCREW, 1/2-13X3/4, GR8	
6	80421109	3	ROLLER ADJUSTMENT PLATE	
7	80423005	3	ECCENTRIC SHAFT	
8		3	ROLLER ASSY, FLAT, (see Figure 2-4 for details)	
9	88743000	3	MALE ADAPTER, 90 DEGREES, 1/8X1/4 TUBE	
10	84719787	1	HOSE ASSY	
11	84719786	2	HOSE ASSY	
12	80326018	3	CLAMP PLATE	
13	80421136	6	KEEPER	
14	88291067	6	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
15	88201077	6	HEX HD CAPSCREW, 1/2-13X4, GR5	
16	88671018	2	LUBE FITTING, 45 DEGREES, 1/8	
17	80323039	6	SPIDER PAD	
18	80421111	3	SPIDER	
19	80421234	3	THREADED BAR	
20	88212248	1	SOCKET HD CAPSCREW, 7/16-14X2-1/2, GR8	
21	80423030	1	SPIDER RETAINER, (anti-seize & hand torque to 55-60 lb-ft)	
22	88681300	1	HEX LOCKNUT, 7/16-14	
23	80926014	1	PIN WELDMENT	
24	83621283	1	SPECIAL WASHER	
25	88201063	1	HEX HD CAPSCREW, 1/2-13X3/4, GR5	
26	84719789	1	HOSE ASSY	
27	84719790	1	HOSE ASSY	
28	80623016	5	FEMALE BULKHEAD CONNECTOR	
29	88671022	5	LUBE FITTING, 90 DEEGREES, 1/8	
30	88661103	2	MALE ELBOW, 90 DEGREES, 1/8X3/16 TUBE	



BOOM

Figure 2-4 Roller Assemblies



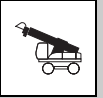


Figure 2-4 Roller Assemblies

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	80425010	1	BOOM ROLLER ASSY, FLAT, (includes items 102 thru 104)	
102	83621262	2	THRUST WASHER	
103	83623005	2	FACE SEAL	
104	83621145	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	



Figure 2-5 Bucket Linkage





Figure 2-5 Bucket Linkage

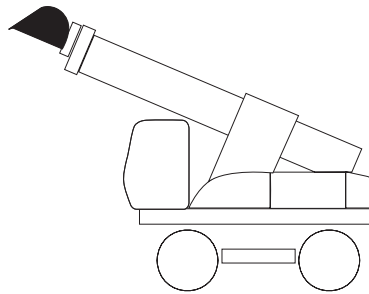
Item	Part Number	Qty.	Description	Rev.
1		Ref	TELESCOPE BOOM ASSY, (see Figure 2-3 for details)	
2		Ref	TOOL CYLINDER ASSY, (see Figure 9-3 for details)	
3	91123029	4	O-RING	
4	80926014	2	PIN WELDMENT	
5	83201047	2	HEX HD CAPSCREW, 1/2-13X1-3/4, GR8	
6	83621283	3	SPECIAL WASHER	
7	80921074	1	PIN, (coat 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	80425009	1	CURVED LINK ASSY, (includes items 28 thru 31)	
12	83623019	4	O-RING	
13	80321039	2	SPECIAL WASHER, (1 hump)	
	80321135	AR	SPECIAL WASHER, (3 hump)	
	80321134	AR	SPECIAL WASHER, (2 hump)	
14	80426033	1	BUCKET ADAPTER	
15	80421146	1	PIN	
16	80321038	2	PIN CAP	
17	83201091	8	HEX HD CAPSCREW, 3/8-16X1-1/4, GR8	
18	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
19	83623018	2	O-RING	
20	91403412	1	HEX HD CAPSCREW, 3/4-10X5, 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	1	HEX HD CAPSCREW, 1/2-13X3/4, GR5	
28	80423042	2	BUSHING	
29	88671008	2	LUBE FITTING, STRAIGHT, 1/4	
30	80421119	2	THREADED STUD	
31	88221183	2	SOCKET SET SCREW, (cup point), 1/4-28x1/4	
32	80325004	1	STRAIGHT LINK ASSY, (includes items 33 thru 35)	
33	80423042	3	BUSHING	
34	88671008	1	LUBE FITTING, STRAIGHT, 1/4	
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

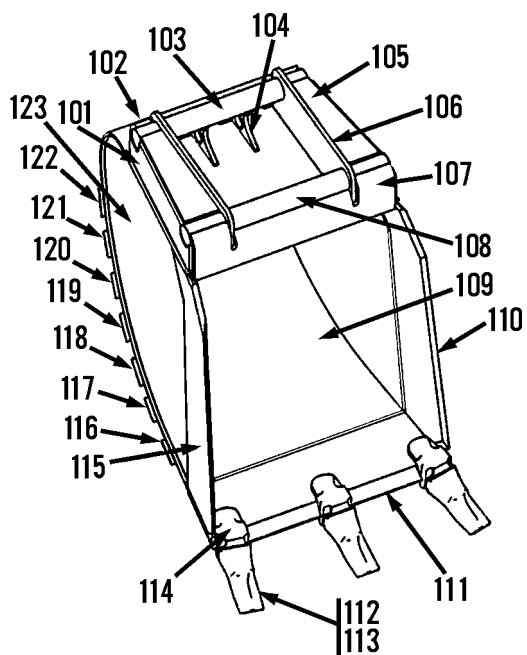
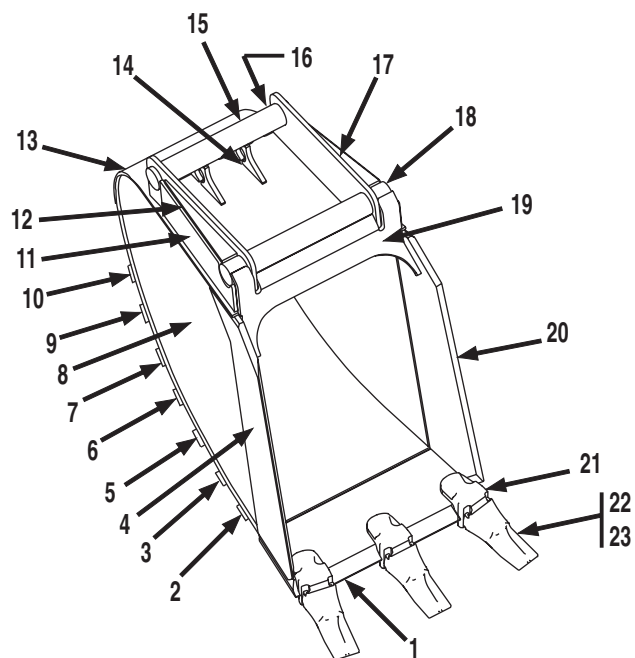




Figure 3-1 24" & 30" Excavating Buckets

Item	Part Number	Qty.	Description	Rev.
	80456020	1	24" EXCAVATING BUCKET, (includes items 1 thru 23), (.33 Cu. Yd. struck, .41 Cu. Yd. heaped)	
1	80451028	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	80651090	2	END PLATE	
12	80651089	2	TOP PLATE	
13	80651086	1	BOTTOM PLATE	
14	80951057	4	INSIDE SUPPORT	
15	80651085	1	REAR PIN	
16	80651095	1	REAR STIFFENER	
17	80651600	2	OUTER SUPPORT PLATE	
18	80651088	1	FRONT PIN	
19	80651096	1	FRONT STIFFENER	
20	80651466	1	CUTTING EDGE, L.H.	
21	80453001	3	TOOTH ADAPTER	
22	80253003	3	TOOTH PIN	
23	80353002	3	TOOTH	
24 to 100	Not Used			
	80456021	1	30" EXCAVATING BUCKET, (includes items 101 thru 123), (.44 Cu. Yd. struck, .54 Cu. Yd. heaped)	
101	80651112	2	END PLATE	
102	80651115	1	REAR STIFFENER	
103	80651107	1	REAR PIN	
104	80951057	4	INSIDE SUPPORT	
105	80651111	2	TOP PLATE	
106	80651600	2	OUTER SUPPORT PLATE	
107	80651116	1	FRONT STIFFENER	
108	80651110	1	FRONT PIN	
109	80651108	1	BOTTOM PLATE	
110	80651466	1	CUTTING EDGE, L.H.	
111	80451029	1	CUTTING EDGE	
112	80353002	3	TOOTH	
113	80253003	3	PIN	
114	80453001	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	



ATTACHMENTS

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

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" & 42" Excavating Buckets

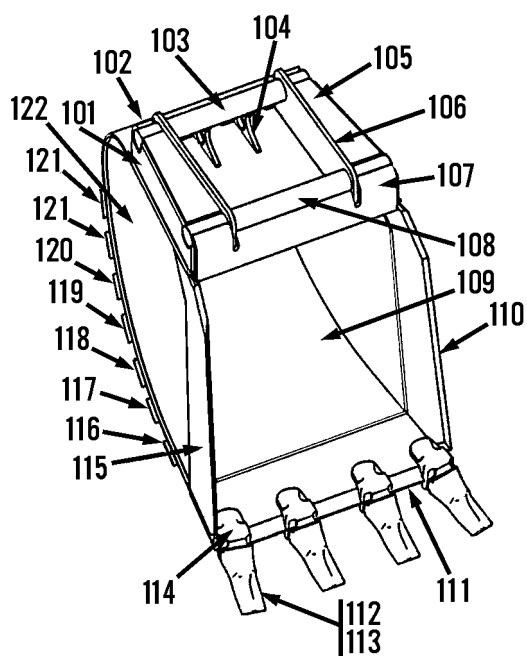
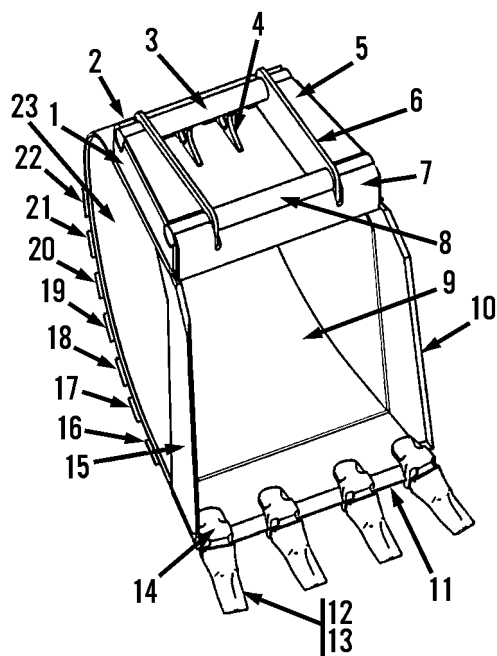




Figure 3-2 36" & 42" Excavating Buckets

Item	Part Number	Qty.	Description	Rev.
	80456022	1	36" EXCAVATING BUCKET, (includes items 1 thru 23), (.56 Cu. Yd. struck, .7 Cu. Yd. heaped)	
1	80651007	2	END PLATE	
2	80651065	1	REAR STIFFENER	
3	80951098	1	REAR PIN	
4	80951057	4	INSIDE SUPPORT	
5	80651067	2	TOP PLATE	
6	80651600	2	OUTER SUPPORT PLATE	
7	80951111	1	FRONT STIFFENER	
8	80951101	1	FRONT PIN	
9	80651066	1	BOTTOM PLATE	
10	80651466	1	CUTTING EDGE, L.H.	
11	80451030	1	CUTTING EDGE	
12	80353002	4	TOOTH	
13	80253003	4	PIN	
14	80453001	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			
	80456023	1	42" EXCAVATING BUCKET, (includes items 101 thru 122), (.67 Cu. Yd. struck, .84 Cu. Yd. heaped)	
101	80651007	2	END PLATE	
102	80651128	1	REAR STIFFENER	
103	80951053	1	REAR PIN	
104	80951057	4	INSIDE SUPPORT	
105	80651124	2	TOP PLATE	
106	80651600	2	OUTER SUPPORT PLATE	
107	80651129	1	FRONT STIFFENER	
108	80951072	1	FRONT PIN	
109	80651122	1	BOTTOM PLATE	
110	80651466	1	CUTTING EDGE, L.H.	
111	80451031	1	CUTTING EDGE	
112	80353002	4	TOOTH	
113	80253003	4	PIN	
114	80453001	4	TOOTH ADAPTER	
115	80651465	1	CUTTING EDGE, R.H.	
116	80651010	1	WEAR STRIP	
117	80951051	1	WEAR STRIP	
118	80651127	1	WEAR STRIP	
119	80651126	1	WEAR STRIP	
120	80651125	1	WEAR STRIP	



Item	Part Number	Qty.	Description	Rev.
121	80651121	2	WEAR STRIP	
122	80651005	2	SIDE PLATE	

Figure 3-2 36" & 42" Excavating Buckets (Continued)

Item	Part Number	Qty.	Description	Rev.



ATTACHMENTS

Figure 3-3 48" Excavating Bucket & 15" Trenching Bucket

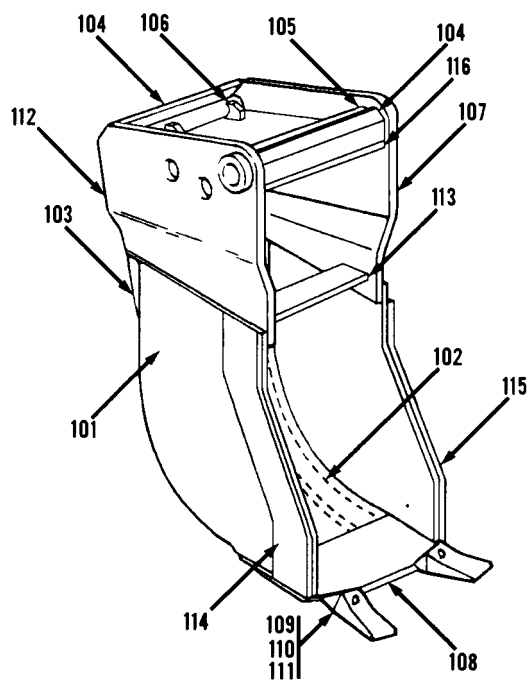
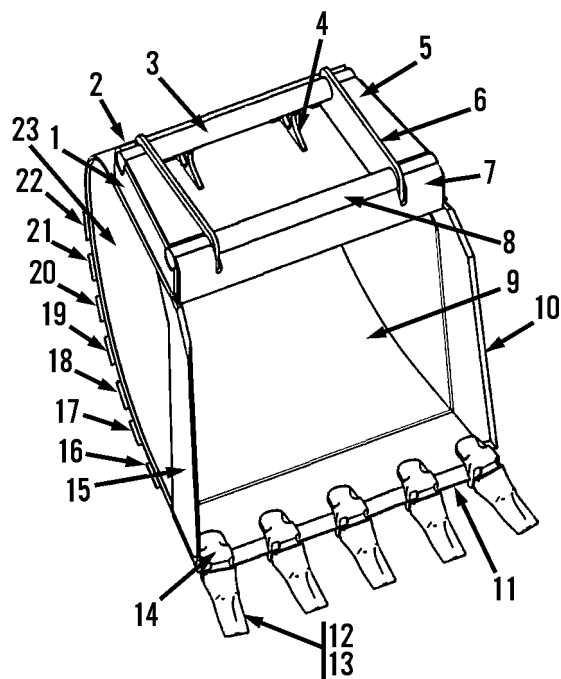




Figure 3-3 48" Excavating Bucket & 15" Trenching Bucket

Item	Part Number	Qty.	Description	Rev.
	80456024	1	48" EXCAVATING BUCKET, (includes items 1 thru 23), (.75 Cu. Yd. struck, .99 Cu. Yd. heaped)	
1	80651007	2	END PLATE	
2	80651008	1	REAR STIFFENER	
3	80951072	1	REAR PIN	
4	80951057	4	INSIDE SUPPORT	
5	80651006	2	TOP PLATE	
6	80651600	2	OUTER SUPPORT PLATE	
7	80951074	1	FRONT STIFFENER	
8	80951075	1	FRONT PIN	
9	80651004	1	BOTTOM PLATE	
10	80651466	1	CUTTING EDGE, L.H.	
11	80451032	1	CUTTING EDGE	
12	80353002	5	TOOTH	
13	80253003	5	PIN	
14	80453001	5	TOOTH ADAPTER	
15	80651465	1	CUTTING EDGE, R.H.	
16	80651014	1	WEAR STRIP	
17	80651013	1	WEAR STRIP	
18	80651012	1	WEAR STRIP	
19	80951067	1	WEAR STRIP	
20	80651011	1	WEAR STRIP	
21	80651010	1	WEAR STRIP	
22	80951076	1	WEAR STRIP	
23	80651005	2	SIDE PLATE	
24 to 100	Not Used			
	80656104	1	15" TRENCHING BUCKET, (includes items 101 thru 116)	
101	86301005	2	SIDE PLATE	
102	86301010	2	WEAR STRIP	
103	80951245	1	BACK PLATE	
104	80951252	2	PIN STIFFENER	
105	80951181	2	PIN	
106	80951057	4	PIN SUPPORT	
107	80651164	1	CONNECTING PLATE, R.H.	
108	80951587	1	CUTTING EDGE WELDMENT	
109	80353002	2	TOOTH	
110	80253003	2	LOCKING TOOTH	
111	80353001	2	PIN LOCK ADAPTER	
112	80651163	1	CONNECTING PLATE, L.H.	
113	80951251	1	BAR	
114	86301013	1	CUTTING EDGE, R.H.	
115	86301014	1	CUTTING EDGE, L.H.	
116	80651165	1	BASE PLATE	



ATTACHMENTS

Figure 3-4 18" & 28" Pavement Removal Bucket

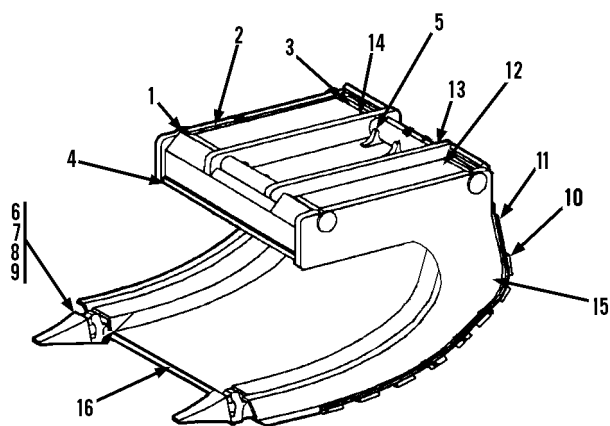




Figure 3-4 18" & 28" Pavement Removal Bucket

Item	Part Number	Qty.	Description	Rev.
	80656045	1	18" PAVEMENT REMOVAL BUCKET, (includes items 1 thru 16)	
1	80651268	2	PIN STIFFENER	
2	80651003	2	PIN SUPPORT PLATE	
3	80651261	2	PIN	
4	80651266	1	TOP PLATE	
5	80951057	4	INSIDE SUPPORT PLATE	
	80651252	2	STIFFENER	
6	85981009	2	TOOTH	
7	85981010	2	ADAPTER	
8	85981012	2	PIN	
9	85981011	2	TOOTH LOCK	
10	80651269	10	WEAR STRIP	
11	80651267	1	BOTTOM PLATE	
12	80651248	2	TOP RUNNER PLATE	
13	80651247	1	L.H. RUNNER PLATE	
14	80651246	1	R.H. RUNNER PLATE	
15	80651244	2	END PLATE	
16	80651265	1	CUTTING EDGE	
17 to 100	Not Used			
	80656043	1	28" PAVEMENT REMOVAL BUCKET, (includes items 101 thru 118)	
101	80651255	2	PIN STIFFENER	
102	80651252	2	STIFFENER	
103	80651250	1	TOP PLATE	
104	80651600	2	PIN SUPPORT PLATE	
105	80951057	4	INSIDE SUPPORT PLATE	
106	80651254	2	PIN	
107	80651244	2	END PLATE	
108	80651069	10	WEAR STRIP	
109	80651248	2	OUTSIDE REINFORCEMENT	
110	80651247	2	L.H. RUNNER PLATE	
111	80651249	1	RUNNER	
112	80651245	1	CUTTING EDGE	
113	85981012	3	PIN	
114	85981009	3	TOOTH	
115	85981011	3	TOOTH LOCK	
116	80651251	1	BOTTOM PLATE	
117	80651246	2	R.H. RUNNER PLATE	
118	85981010	3	ADAPTER	



ATTACHMENTS

Figure 3-5 40" Pavement Removal Bucket & 60" Ditching Bucket

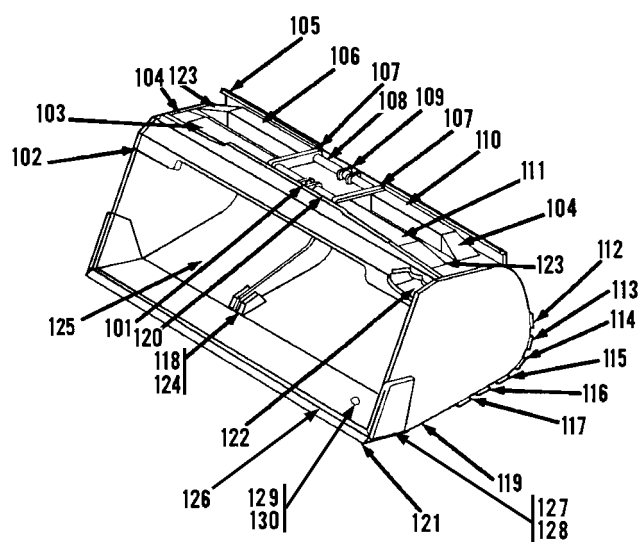
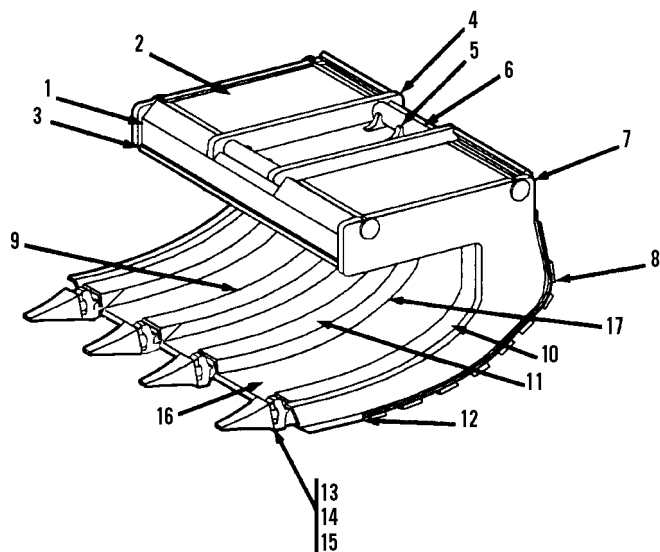




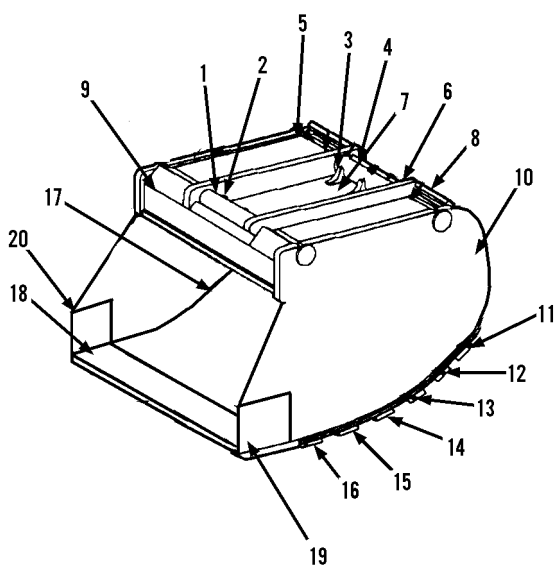
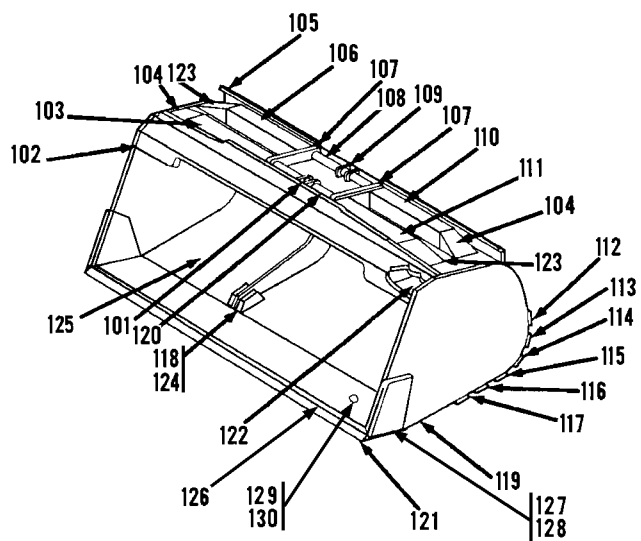
Figure 3-5 40" Pavement Removal Bucket & 60" Ditching Bucket

Item	Part Number	Qty.	Description	Rev.
	80656102	1	40" PAVEMENT REMOVAL BUCKET, (includes items 1 thru 16)	
1	80651033	2	PIN STIFFENER	
2	80651032	2	STIFFENER	
3	80651185	1	TOP PLATE	
4	80651600	2	PIN SUPPORT PLATE	
5	80951057	4	INSIDE SUPPORT PLATE	
6	80651036	2	PIN	
7	80651537	1	BOTTOM PLATE	
8	80651011	7	WEAR STRIP	
9	80651538	6	RUNNER	
10	80651536	2	RUNNER PLATE, (outer)	
11	80651535	2	RUNNER PLATE, (inner)	
12	80651533	2	END PLATE	
13	80353005	4	TOOTH PIN	
14	80353004	4	TOOTH	
15	80353003	4	TOOTH ADAPTER	
16	80651534	1	CUTTING EDGE	
17 to 100	Not Used			
	80656032	1	60" DITCHING BUCKET, (includes items 101 thru 130), (.95 Cu. yd.)	
101	80951057	2	INSIDE SUPPORT	
102	80651048	1	FRONT STIFFENER	
103	80651044	1	BUCKET STIFFENER	
104	80651026	2	CAP PLATE	
105	80651049	1	REAR STIFFENER	
106	80651047	1	BUCKET STIFFENER	
107	80651599	2	OUTER SUPPORT PLATE	
108	80951101	1	PIN	
109	80651029	2	INSIDE SUPPORT	
110	80651046	1	BUCKET STIFFENER	
111	80651045	1	BUCKET STIFFENER	
112	80651052	1	WEAR STRIP	
113	83451296	1	WEAR STRIP	
114	80651051	1	WEAR STRIP	
115	80951189	1	WEAR STRIP	
116	80951191	1	WEAR STRIP	
117	80651050	1	WEAR STRIP	
118	80651073	2	WEAR PLATE	
119	80651017	2	SIDE PLATE	
120	80651054	1	PIN	
121	80651191	1	CUTTING EDGE	
122	80951054	2	GUSSET	
123	80651030	2	REAR END CAP	
124	80651022	1	BUCKET STIFFENER	
125	80651053	1	BOTTOM PLATE	
126	80651192	1	CUTTING EDGE	
127	24291027	1	CUTTING EDGE	
128	24291026	1	CUTTING EDGE	
129	83453002	8	PLOW BOLT, 3/4-10X2-1/2	
130	88521312	8	HEX LOCKNUT, 3/4-10	



ATTACHMENTS

Figure 3-6 28" Pavement Removal Bucket & 30" Ditching Bucket



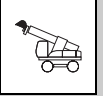


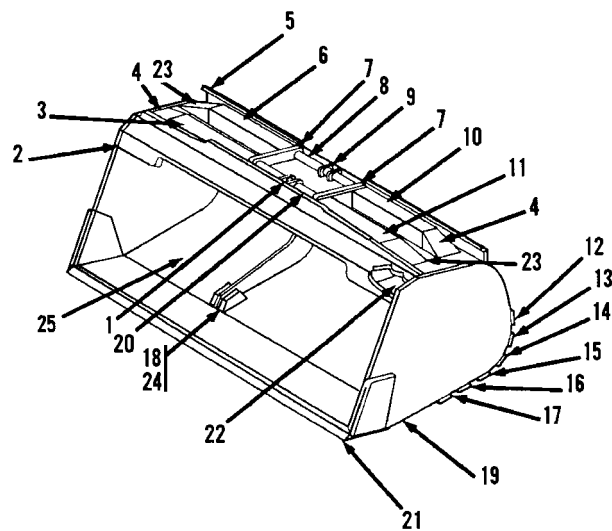
Figure 3-6 28" Pavement Removal Bucket & 30" Ditching Bucket

Item	Part Number	Qty.	Description	Rev.
	80656114	1	28" PAVEMENT REMOVAL BUCKET, (includes items 101 thru 105)	
101	80651069	10	WEAR STRIP	
102	80651609	1	CUTTING EDGE	
103	80353005	3	PIN	
104	80353004	3	TOOTH	
105	80353003	3	ADAPTER	
	80656040	1	30" DITCHING BUCKET, (includes all items)	
1	80651220	1	PIN	
2	80951057	2	INSIDE SUPPORT	
3	80651029	2	INSIDE SUPPORT	
4	80651221	1	PIN	
5	80651217	2	END PLATE	
6	80651599	2	OUTER SUPPORT PLATE	
7	80651216	2	TOP PLATE	
8	80651215	1	REAR STIFFENER	
9	80651214	1	FRONT STIFFENER	
10	80651017	2	SIDE PLATE	
11	80651222	1	WEAR STRIP	
12	80651223	1	WEAR STRIP	
13	80651224	1	WEAR STRIP	
14	83451289	1	WEAR STRIP	
15	80651225	1	WEAR STRIP	
16	80951104	1	WEAR STRIP	
17	80651218	1	BOTTOM PLATE	
18	80651219	1	CUTTING EDGE	
19	24291026	1	CUTTING EDGE	
20	24291027	1	CUTTING EDGE	



ATTACHMENTS

Figure 3-7 60", 66" & 72" Ditching Bucket



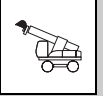


Figure 3-7 60", 66" & 72" Ditching Bucket

Item	Part Number	Qty.	Description	Rev.
	80656007	1	60" DITCHING BUCKET, (includes items 1 thru 25), (.95 Cu. Yd.)	
1	80951057	2	INSIDE SUPPORT	
2	80651048	1	FRONT STIFFENER	
3	80651044	1	BUCKET STIFFENER	
4	80651026	2	CAP PLATE	
5	80651049	1	REAR STIFFENER	
6	80651047	1	BUCKET STIFFENER	
7	80651599	2	OUTER SUPPORT PLATE	
8	80951101	1	PIN	
9	80651029	2	INSIDE SUPPORT	
10	80651046	1	BUCKET STIFFENER	
11	80651045	1	BUCKET STIFFENER	
12	80651052	1	WEAR STRIP	
13	83451296	1	WEAR STRIP	
14	80651051	1	WEAR STRIP	
15	80951189	1	WEAR STRIP	
16	80951191	1	WEAR STRIP	
17	80651050	1	WEAR STRIP	
18	80651073	2	WEAR PLATE	
19	80651017	2	SIDE PLATE	
20	80651054	1	PIN	
21	80653019	1	CUTTING EDGE	
22	80951054	2	GUSSET	
23	80651030	2	REAR END CAP	
24	80651022	1	BUCKET STIFFENER	
25	80651053	1	BOTTOM PLATE	
	80656006	1	66" DITCHING BUCKET, (includes items 1 thru 25), (1.06 Cu. Yd)	
1	80951057	2	INSIDE SUPPORT	
2	80651063	1	FRONT STIFFENER	
3	80651058	1	BUCKET STIFFENER	
4	80651026	2	CAP PLATE	
5	80651064	1	REAR STIFFENER	
6	80651061	1	BUCKET STIFFENER	
7	80651599	2	OUTER SUPPORT PLATE	
8	80951053	1	PIN	
9	80651029	2	INSIDE SUPPORT	
10	80651060	1	BUCKET STIFFENER	
11	80651059	1	BUCKET STIFFENER	
12	80951190	1	WEAR STRIP	
13	80651062	1	WEAR STRIP	
14	80651050	1	WEAR STRIP	
15	80951050	1	WEAR STRIP	
16	80951137	1	WEAR STRIP	
17	80651024	1	WEAR STRIP	
18	80651073	2	WEAR PLATE	
19	80651017	2	SIDE PLATE	
20	80651057	1	PIN	
21	80653018	1	CUTTING EDGE	



ATTACHMENTS

Figure 3-7 60", 66" & 72" Ditching Bucket (Continued)

Item	Part Number	Qty.	Description	Rev.
22	80951054	2	GUSSET	
23	80651030	2	REAR END CAP	
24	80651022	1	BUCKET STIFFENER	
25	80651055	1	BOTTOM PLATE	
	80656002	1	72" DITCHING BUCKET, (includes items 1 thru 25), (1.092 Cu. Yd.)	
1	80951057	2	INSIDE SUPPORT	
2	80651027	1	FRONT STIFFENER	
3	80651018	1	BUCKET STIFFENER	
4	80651026	2	CAP PLATE	
5	80651028	1	REAR STIFFENER	
6	80651021	1	BUCKET STIFFENER	
7	80651599	2	OUTER SUPPORT PLATE	
8	80951053	1	PIN	
9	80651029	2	INSIDE SUPPORT	
10	80651020	1	BUCKET STIFFENER	
11	80651019	1	BUCKET STIFFENER	
12	80951049	1	WEAR STRIP	
13	80651023	1	WEAR STRIP	
14	80651024	1	WEAR STRIP	
15	80651025	1	WEAR STRIP	
16	80951136	1	WEAR STRIP	
17	80951135	1	WEAR STRIP	
18	80651073	2	WEAR PLATE	
19	80651017	2	SIDE PLATE	
20	80951075	1	PIN	
21	80653017	1	CUTTING EDGE	
22	80951054	2	GUSSET	
23	80651030	2	REAR END CAP	
24	80651022	1	BUCKET STIFFENER	
25	80651016	1	BOTTOM PLATE	

Figure 3-7 60", 66" & 72" Ditching Bucket (Continued)

Item	Part Number	Qty.	Description	Rev.



ATTACHMENTS

Figure 3-8 72" & 108" Dredging Bucket

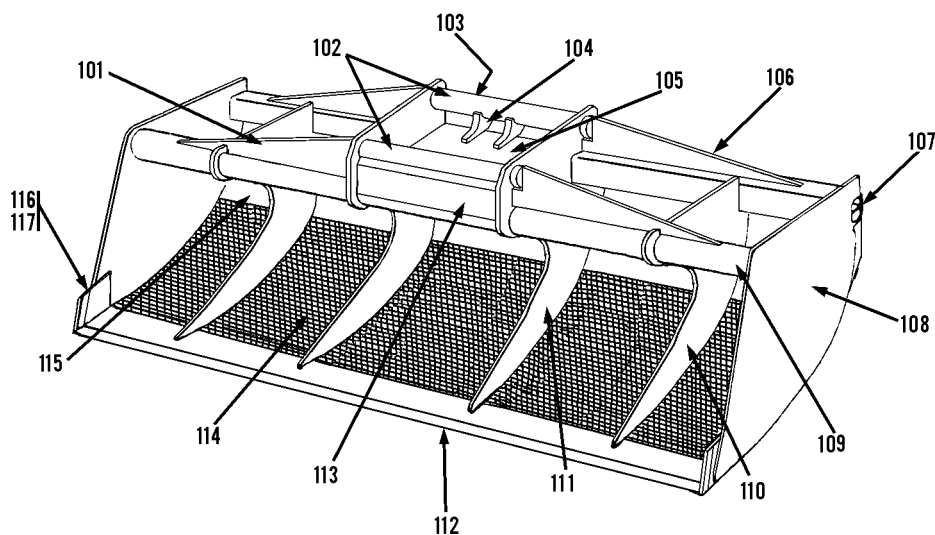
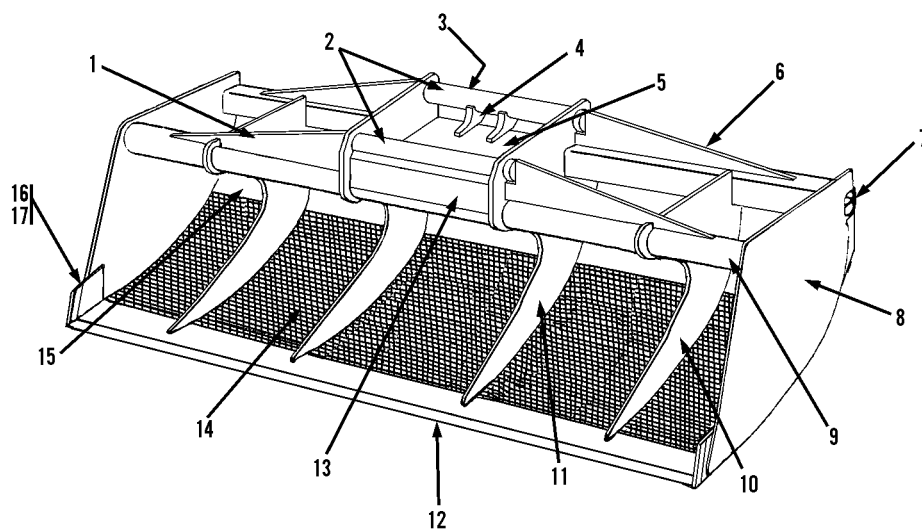




Figure 3-8 72" & 108" Dredging Bucket

Item	Part Number	Qty.	Description	Rev.
	80656013	1	72" DREDGING BUCKET, (includes items 1 thru 17)	
1	80651546	2	FRONT GUSSET	
2	80951181	2	ROUND BAR	
3	80651168	7	RUNNER STRIP, (located on the back of the bucket), (not shown)	
4	80951057	4	INSIDE SUPPORT	
5	80651178	1	PLATE	
6	80651547	2	BACK GUSSET	
7	80651320	1	REAR STIFFENER	
8	80651179	2	SIDE PLATE	
9	80651321	1	CROSS TUBE	
10	80651166	2	RIB	
11	80651167	2	RIB	
12	80651324	1	BOTTOM CUTTING EDGE	
13	80651545	1	STIFFENER	
14	80651318	1	WIRE MESH BOTTOM	
15	80651319	1	BACK PLATE	
16	24401006	1	R.H. SIDE CUTTER	
17	24401007	1	L.H. SIDE CUTTER	
18 to 100	Not Used			
	80656029	1	108" DREDGING BUCKET, (includes items 101 thru 117)	
101	80651173	2	FRONT GUSSET	
102	80651175	2	ROUND BAR	
103	80651168	7	RUNNER STRIP, (located on the back of the bucket), (not shown)	
104	80951057	4	INSIDE SUPPORT	
105	80651178	1	PLATE	
106	80651176	2	BACK GUSSET	
107	80651320	1	REAR STIFFENER	
108	80651179	2	SIDE PLATE	
109	80651172	1	CROSS TUBE	
110	80651166	2	RIB	
111	80651167	2	RIB	
112	80651177	1	BOTTOM CUTTING EDGE	
113	80651174	2	STIFFENER	
114	80651169	1	WIRE MESH BOTTOM	
115	80651170	1	BACK PLATE	
116	24401006	1	R.H. SIDE CUTTER	
117	24401007	1	L.H. SIDE CUTTER	



ATTACHMENTS

Figure 3-9 Guardrail Back Scraper & 66" Ditching Bucket

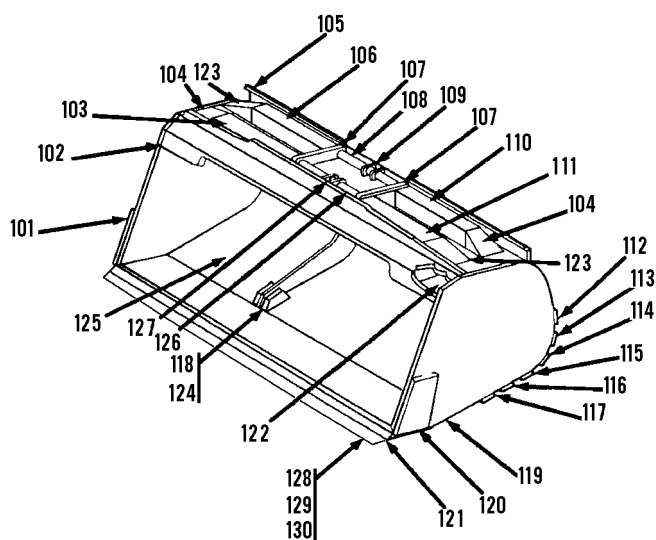
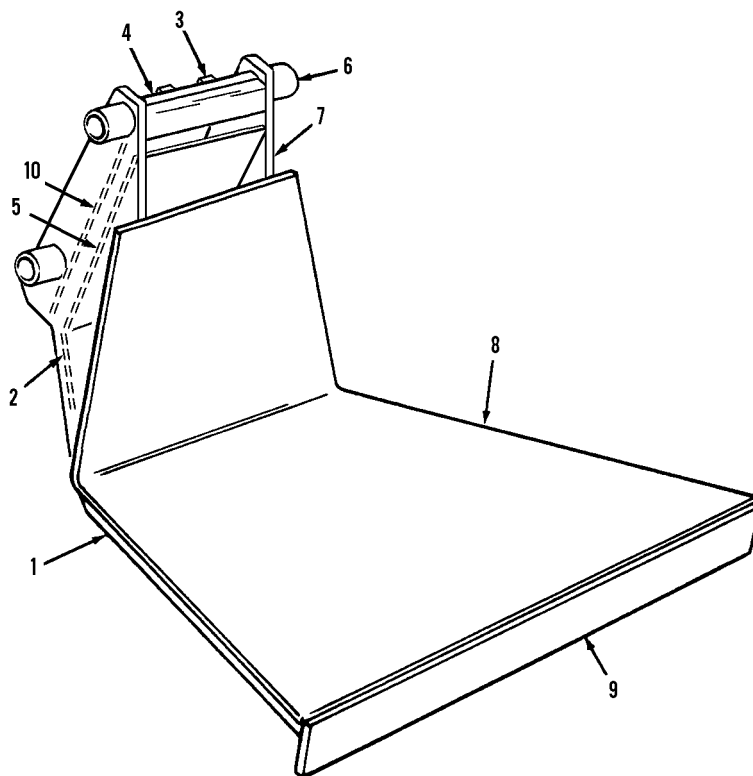




Figure 3-9 Guardrail Back Scraper & 66" Ditching Bucket

Item	Part Number	Qty.	Description	Rev.
	80656035	1	GUARDRAIL BACK SCRAPER, (includes items 1 thru 10)	
1	83451221	2	OUTER RIB	
2	80651204	1	BOTTOM PLATE	
3	80951057	4	INSIDE SUPPORT	
4	80951252	2	PIN STIFFENER	
5	80651205	1	BACK PLATE	
6	80951181	2	PIN	
7	80651202	2	INNER RIB	
8	80651203	1	COVER PLATE	
9	83451222	1	CUTTING EDGE	
10	80651135	1	BASE PLATE	
11 to 100	Not Used			
	80656036	1	66" DITCHING BUCKET, (includes items 101 thru 130), (1.06 Cu. Yd.)	
101	24291026	1	CUTTING EDGE, L.H.	
102	80651063	1	FRONT STIFFENER	
103	80651058	1	BUCKET STIFFENER	
104	80651026	2	CAP PLATE	
105	80651064	1	REAR STIFFENER	
106	80651061	1	BUCKET STIFFENER	
107	80651599	2	OUTER SUPPORT PLATE	
108	80951053	1	PIN	
109	80651029	2	INSIDE SUPPORT	
110	80651060	1	BUCKET STIFFENER	
111	80651059	1	BUCKET STIFFENER	
112	80951190	1	WEAR STRIP	
113	80651062	1	WEAR STRIP	
114	80651050	1	WEAR STRIP	
115	80951050	1	WEAR STRIP	
116	80951137	1	WEAR STRIP	
117	80651024	1	WEAR STRIP	
118	80651073	2	WEAR PLATE	
119	80651017	2	SIDE PLATE	
120	24291027	1	CUTTING EDGE, R.H.	
121	80651206	1	CUTTING EDGE	
122	80951054	2	GUSSET	
123	80651030	2	REAR END CAP	
124	80651022	1	BUCKET STIFFENER	
125	80651055	1	BOTTOM PLATE	
126	80651057	1	PIN	
127	80951057	2	INSIDE SUPPORT	
128	80651207	1	CUTTING EDGE	
129	80653012	8	PLOWBOLT	
130	88521312	8	HEX LOCKNUT, 3/4-10	



ATTACHMENTS

Figure 3-10 8' Grading Blade & Single Tooth Ripper

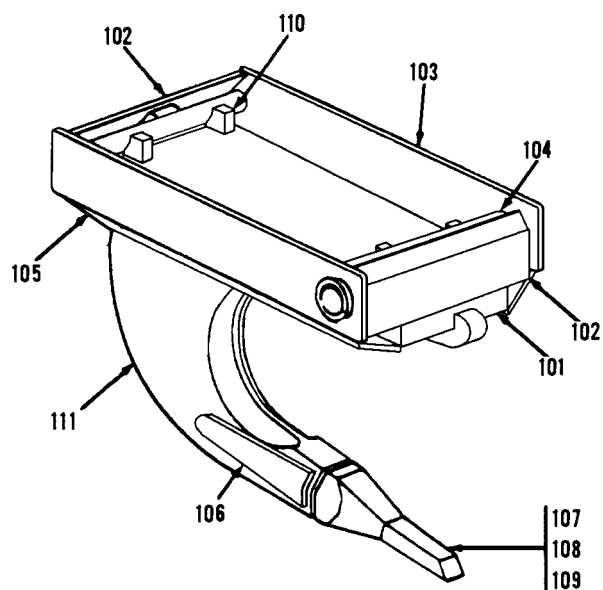
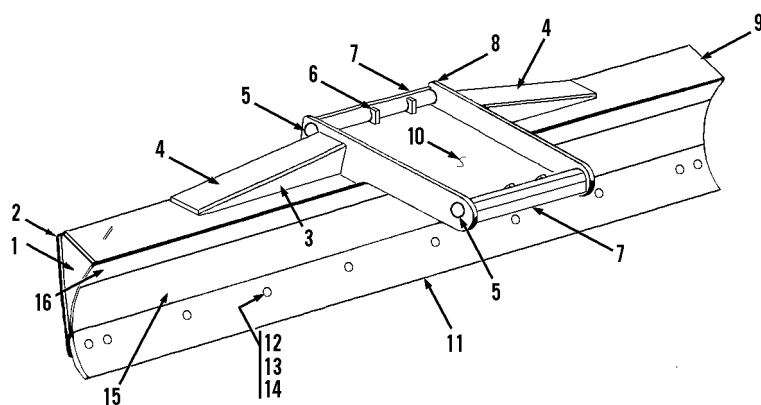




Figure 3-10 8' Grading Blade & Single Tooth Ripper

Item	Part Number	Qty.	Description	Rev.
	80656024	1	8' GRADING BLADE, (includes items 1 thru 17)	
1	24131037	4	STIFFENER	
2	80951238	1	BACK PLATE	
	80951239	1	BACK PLATE	
3	80951237	2	GUSSET	
4	80951235	1	FORMED GUSSET	
	80951236	1	FORMED GUSSET	
5	80951181	2	PIN	
6	80951057	4	INSIDE SUPPORT	
7	80951252	2	PIN STIFFENER	
8	80651134	2	SIDE PLATE	
9	80951240	2	TOP PLATE	
10	80651135	1	BASE PLATE	
11	24131047	1	CUTTING EDGE	
12	88421038	10	PLOW BOLT, 5/8X2"	
13	88551015	10	LOCKWASHER, 5/8	
14	88501010	10	HEX NUT, 5/8-11	
15	24131039	1	MOLD BOARD	
16	80951242	1	INSIDE FRONT PLATE	
17	80951241	1	INSIDE REAR PLATE, (not shown)	
	80656009	1	SINGLE TOOTH RIPPER, (includes items 101 thru 111)	
101	80651182	1	BASE PLATE	
102	80951179	2	PIN STIFFENER	
103	80651181	2	PIN SUPPORT PLATE	
104	80951181	2	PIN	
105	80651183	2	GUSSET	
106	80651653	2	TOOTH GUSSET	
107	80953022	1	TOOTH SHANK	
108	80953021	1	TOOTH	
109	80953023	1	TOOTH LOCK	
110	80951057	4	INSIDE SUPPORT PLATE	
111	80651652	1	RIPPER PLATE	



ATTACHMENTS

Figure 3-11 4' Boom Extension

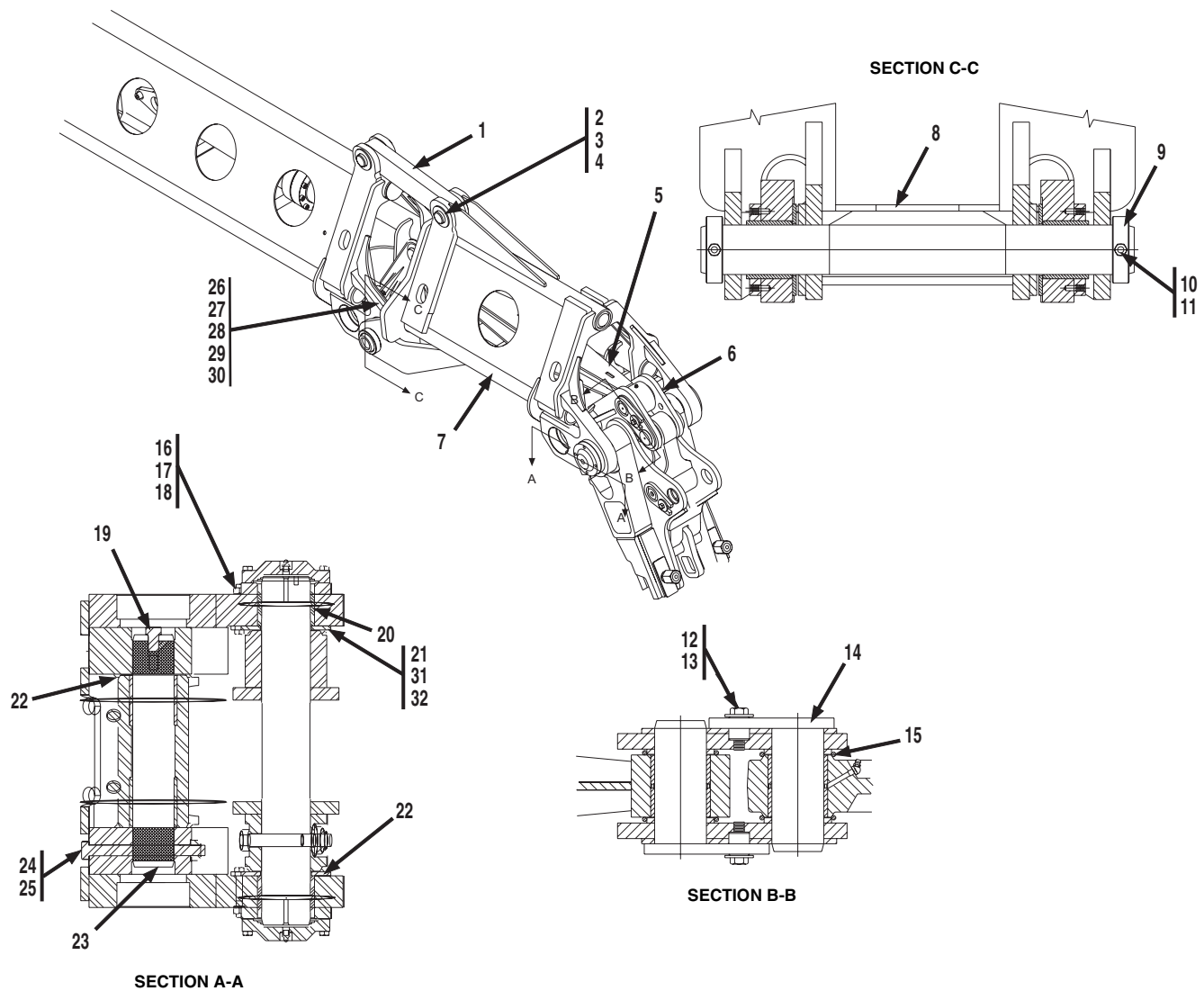




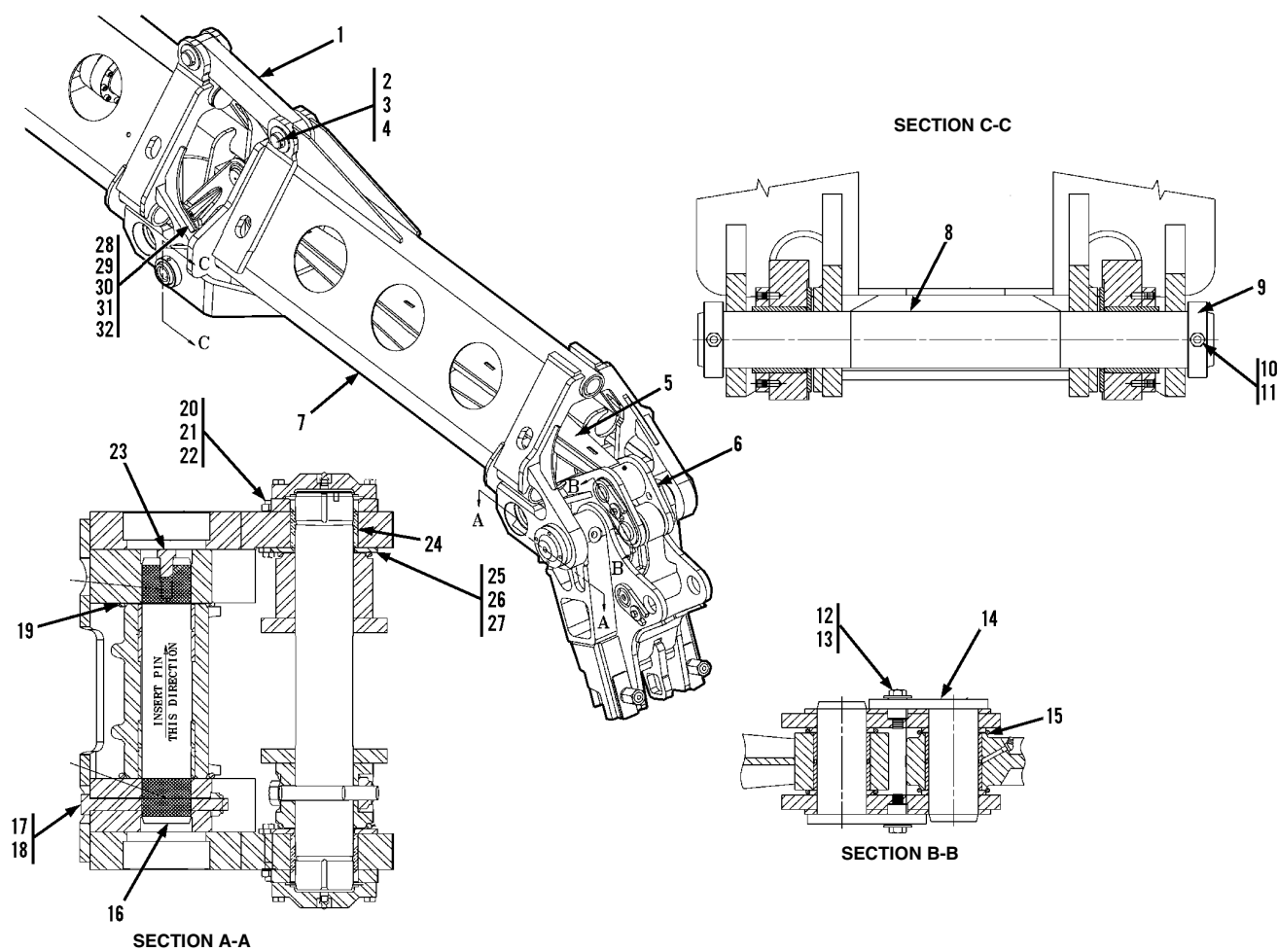
Figure 3-11 4' Boom Extension

Item	Part Number	Qty.	Description	Rev.
	80455002	1	4' BOOM EXTENSION, (includes all items)	
1	80451019	1	LINK	
2	80651140	2	PIN	
3	80651141	4	PLATE	
4	88631352	4	COTTER PIN, 1/4X3	
5	80456009	1	PUSH ROD WELDMENT	
6	80625017	1	CURVED LINK ASSY	
7	80456002	1	4' BOOM EXTENSION WELDMENT	
8	80651098	1	PIN	
9	80651100	2	COLLAR	
10	83481673	2	HEX HD CAPSCREW, 3/8-16X4-3/4	
11	88521206	2	HEX LOCKNUT, 3/8-16	
12	83201129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 68-73 lb-ft)	
13	83621283	2	SPECIAL WASHER	
14	80926014	2	PIN WELDMENT	
15	91123029	4	O-RING	
16	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
17	88501006	2	HEX NUT, 3/8-16	
18	88551011	2	LOCKWASHER, 3/8	
19	83201169	1	HEX HD CAPSCREW, 5/8-11X1	
20	80323047	2	BUSHING	
21	80321134	2	WASHER	
22	83623019	2	O-RING	
23	80921074	1	PIN	
24	83201156	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
25	88521310	1	HEX LOCKNUT, 5/8-11	
26	80451017	1	BEARING	
27	80451018	1	SHIM PLATE	
28	80451020	1	SHIM PLATE	
29	80451021	1	SHIM PLATE	
30	83201047	2	HEX HD CAPSCREW, 1/2-13X1-3/4	
31	80321135	AR	WASHER	
32	80321039	AR	WASHER	



ATTACHMENTS

Figure 3-12 6' Boom Extension



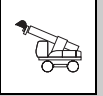


Figure 3-12 6' Boom Extension

Item	Part Number	Qty.	Description	Rev.
	80455003	1	6' BOOM EXTENSION, (includes all items)	
1	80451019	1	LINK	
2	80651140	2	PIN	
3	80651141	4	PLATE	
4	88631352	4	COTTER PIN, 1/4X3	
5	80456008	1	PUSH ROD WELDMENT	
6	80625017	1	CURVED LINK ASSY	
7	80456003	1	6' BOOM EXTENSION WELDMENT	
8	80651098	1	PIN	
9	80651100	2	COLLAR	
10	83481673	2	HEX HD CAPSCREW, 3/8-16X4-3/4	
11	88521206	2	HEX LOCKNUT, 3/8-16	
12	83201129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 68-73 lb-ft)	
13	83621283	2	SPECIAL WASHER	
14	80926014	2	PIN WELDMENT	
15	91123029	4	O-RING	
16	80921074	1	PIN	
17	83201156	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
18	88521310	1	HEX LOCKNUT, 5/8-11	
19	83623019	2	O-RING	
20	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
21	88501006	2	HEX NUT, 3/8-16	
22	88551011	2	LOCKWASHER, 3/8	
23	83201169	1	HEX HD CAPSCREW, 5/8-11X1	
24	80323047	2	BUSHING	
25	80321134	2	WASHER	
26	80321135	AR	WASHER	
27	80321039	AR	WASHER	
28	80451017	1	BEARING	
29	80451018	1	SHIM PLATE	
30	80451020	1	SHIM PLATE	
31	80451021	1	SHIM PLATE	
32	83201047	2	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	



ATTACHMENTS

Figure 3-13 8' Boom Extension

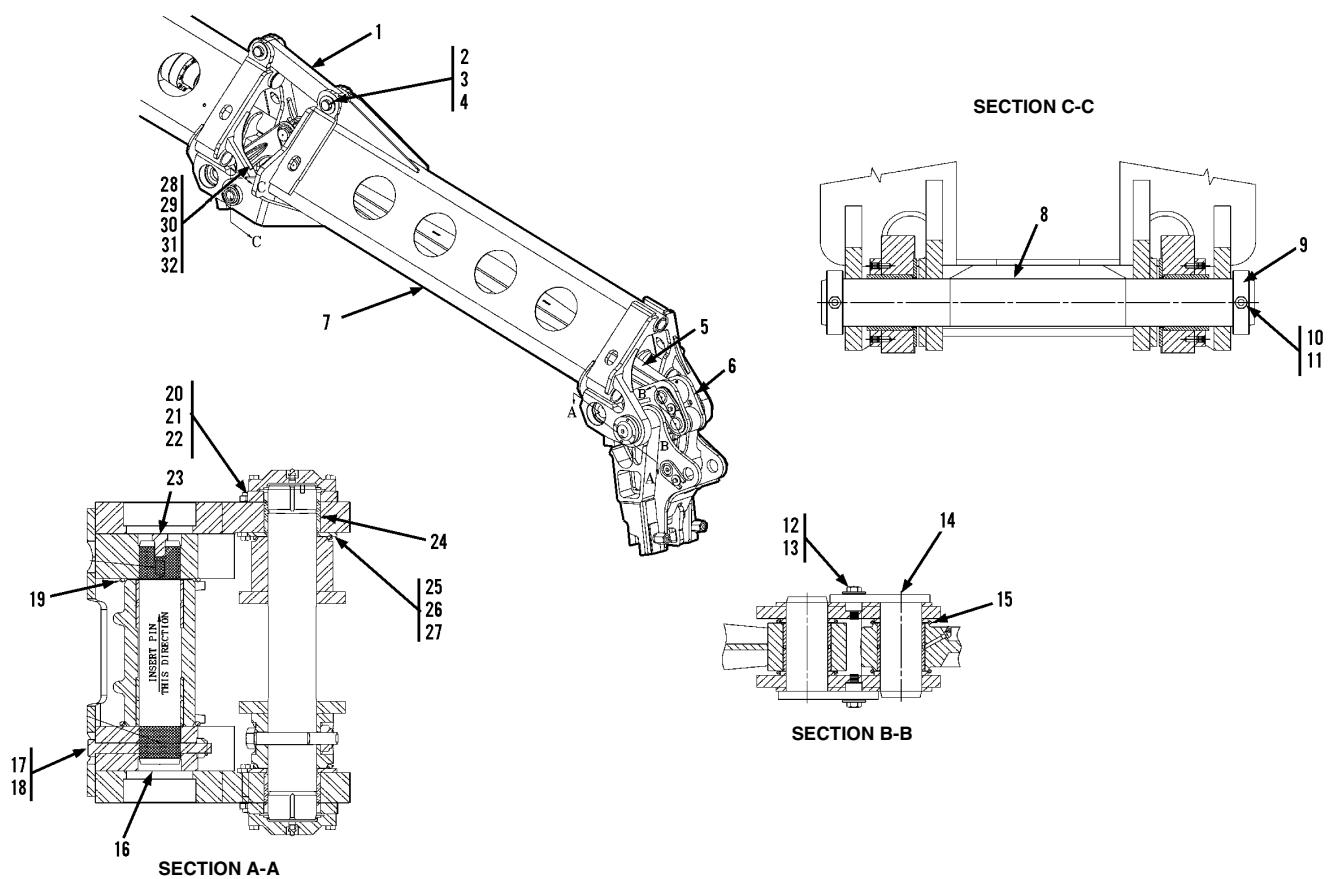




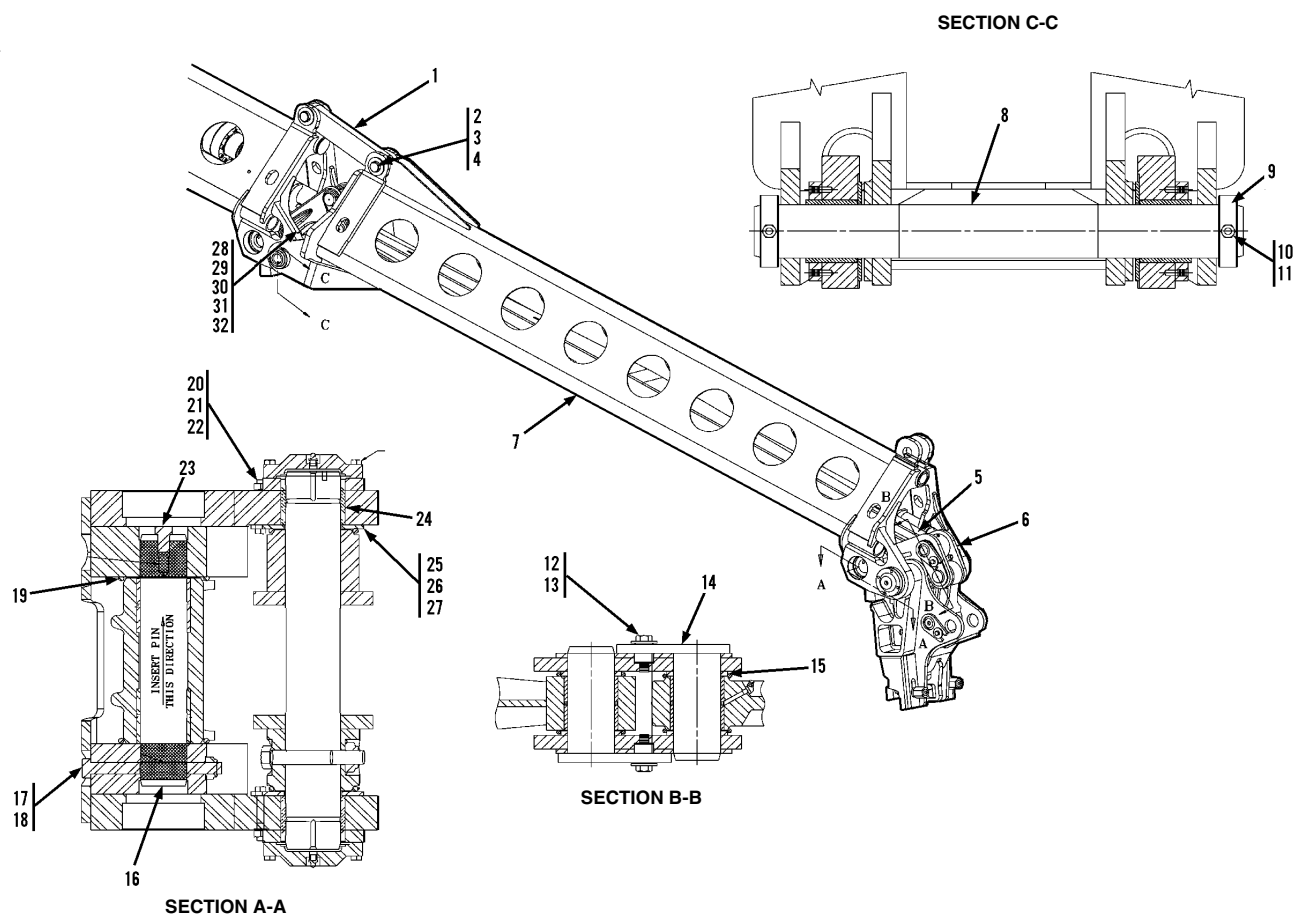
Figure 3-13 8' Boom Extension

Item	Part Number	Qty.	Description	Rev.
	80455004	1	8' BOOM EXTENSION, (includes all items)	
1	80451019	1	LINK	
2	80651140	2	PIN	
3	80651141	4	PLATE	
4	88631352	4	COTTER PIN, 1/4X3	
5	80456007	1	PUSH ROD WELDMENT	
6	80625017	1	CURVED LINK ASSY	
7	80456004	1	8' BOOM EXTENSION WELDMENT	
8	80651098	1	PIN	
9	80651100	2	COLLAR	
10	83481673	2	HEX HD CAPSCREW, 3/8-16X4-3/4	
11	88521206	2	HEX LOCKNUT, 3/8-16	
12	83201129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 68-73 lb-ft)	
13	83621283	2	SPECIAL WASHER	
14	80926014	2	PIN WELDMENT	
15	91123029	4	O-RING	
16	80921074	1	PIN	
17	83201156	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
18	88521310	1	HEX LOCKNUT, 5/8-11	
19	83623019	2	O-RING	
20	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
21	88501006	2	HEX NUT, 3/8-16	
22	88551011	2	LOCKWASHER, 3/8	
23	83201169	1	HEX HD CAPSCREW, 5/8-11X1	
24	80323047	2	BUSHING	
25	80321134	2	WASHER	
26	80321135	AR	WASHER	
27	80321039	AR	WASHER	
28	80451017	1	BEARING	
29	80451018	1	SHIM PLATE	
30	80451020	1	SHIM PLATE	
31	80451021	1	SHIM PLATE	
32	83201047	2	HEX HD CAPSCREW, 1/2-13X1-3/4	



ATTACHMENTS

Figure 3-14 12' Boom Extension



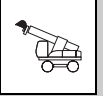


Figure 3-14 12' Boom Extension

Item	Part Number	Qty.	Description	Rev.
	80455005	1	12' BOOM EXTENSION, (includes all items)	
1	80451019	1	LINK	
2	80651140	2	PIN	
3	80651141	4	PLATE	
4	88631352	4	COTTER PIN, 1/4X3	
5	80456006	1	PUSH ROD WELDMENT	
6	80625017	1	CURVED LINK ASSY	
7	80456005	1	12' BOOM EXTENSION WELDMENT	
8	80651098	1	PIN	
9	80651100	2	COLLAR	
10	83481673	2	HEX HD CAPSCREW, 3/8-16X4-3/4	
11	88521206	2	HEX LOCKNUT, 3/8-16	
12	83201129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 68-73 lb-ft)	
13	83621283	2	SPECIAL WASHER	
14	80926014	2	PIN WELDMENT	
15	91123029	4	O-RING	
16	80921074	1	PIN	
17	83201156	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
18	88521310	1	HEX LOCKNUT, 5/8-11	
19	83623019	2	O-RING	
20	88201042	2	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
21	88501006	2	HEX NUT, 3/8-16	
22	88551011	2	LOCKWASHER, 3/8	
23	83201169	1	HEX HD CAPSCREW, 5/8-11X1	
24	80323047	2	BUSHING	
25	80321134	2	WASHER	
26	80321135	AR	WASHER	
27	80321039	AR	WASHER	
28	80451017	1	BEARING	
29	80451018	1	SHIM PLATE	
30	80451020	1	SHIM PLATE	
31	80451021	1	SHIM PLATE	
32	83201047	2	HEX HD CAPSCREW, 1/2-13X1-3/4	

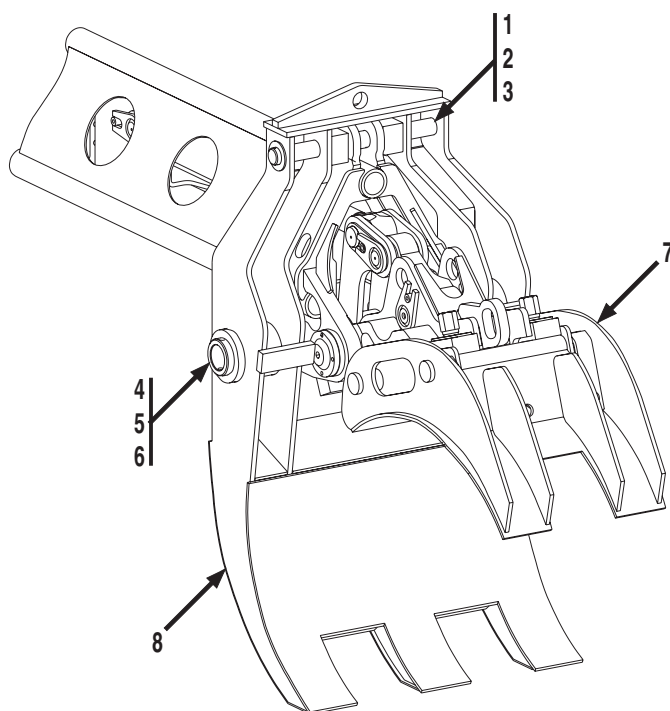


ATTACHMENTS

Figure 3-15 Fixed Thumb Grapple

NOTE:

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.



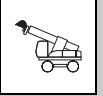


Figure 3-15 Fixed Thumb Grapple

Item	Part Number	Qty.	Description	Rev.
	80455006	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	80656026	1	GRAPPLE PIVOTING ARM	
8	80456010	1	GRAPPLE STATIONARY ARM	



ATTACHMENTS

Figure 3-16 66" Ditching Bucket w/Bolt-on Cutting Edge

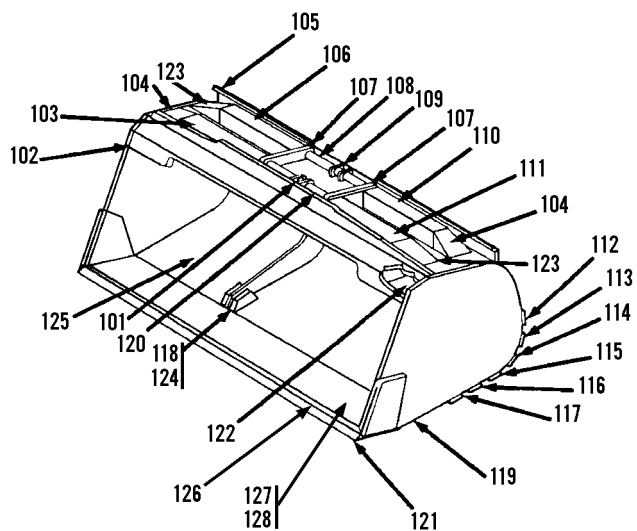
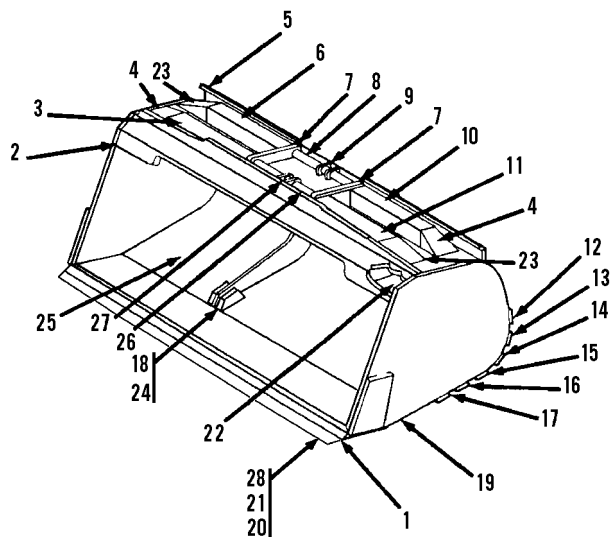




Figure 3-16 66" Ditching Bucket w/Bolt-on Cutting Edge

Item	Part Number	Qty.	Description	Rev.
	80656093	1	66" DITCHING BUCKET, (1.06 Cu. Yd.), (includes all items)	
1	80653026	1	CUTTING EDGE	
2	80651063	1	FRONT STIFFENER	
3	80651058	1	BUCKET STIFFENER	
4	80651026	2	CAP PLATE	
5	80651064	1	REAR STIFFENER	
6	80651061	1	BUCKET STIFFENER	
7	80651599	2	OUTER SUPPORT PLATE	
8	80951053	1	PIN	
9	80651029	2	INSIDE SUPPORT	
10	80651060	1	BUCKET STIFFENER	
11	80651059	1	BUCKET STIFFENER	
12	80951190	1	WEAR STRIP	
13	80651062	1	WEAR STRIP	
14	80651050	1	WEAR STRIP	
15	80951050	1	WEAR STRIP	
16	80951137	1	WEAR STRIP	
17	80651024	1	WEAR STRIP	
18	80651073	2	WEAR PLATE	
19	80651017	2	SIDE PLATE	
20	88421045	10	PLOW BOLT, 3/4-10x2-1/4	
21	88521312	10	HEX LOCKNUT, 3/4-10	
22	80951054	2	GUSSET	
23	80651030	2	REAR END CAP	
24	80651022	1	BUCKET STIFFENER	
25	80651055	1	BOTTOM PLATE	
26	80651057	1	PIN	
27	80951057	2	INSIDE SUPPORT	
28	80653023	1	CUTTING EDGE	
	80656094	1	72" DITCHING BUCKET, (.95 Cu. Yd.), (includes items 101 thru 128)	
101	80951057	2	INSIDE SUPPORT	
102	80651027	1	FRONT STIFFENER	
103	80651018	1	BUCKET STIFFENER	
104	80651026	2	CAP PLATE	
105	80651028	1	REAR STIFFENER	
106	80651021	1	BUCKET STIFFENER	
107	80651599	2	OUTER SUPPORT PLATE	
108	80951053	1	PIN	
109	80651029	2	INSIDE SUPPORT	
110	80651020	1	BUCKET STIFFENER	
111	80651019	1	BUCKET STIFFENER	
112	80951049	1	WEAR STRIP	
113	83451296	1	WEAR STRIP	
114	80651024	1	WEAR STRIP	
115	80651025	1	WEAR STRIP	
116	80951135	1	WEAR STRIP	
117	80951135	1	WEAR STRIP	



ATTACHMENTS

Figure 3-16 66" Ditching Bucket w/Bolt-on Cutting Edge

Item	Part Number	Qty.	Description	Rev.
118	80651073	2	WEAR PLATE	
119	80651017	2	SIDE PLATE	
120	80951075	1	PIN	
121	80653022	1	CUTTING EDGE	
122	80951054	2	GUSSET	
123	80651030	2	REAR END CAP	
124	80651022	1	BUCKET STIFFENER	
125	80651016	1	BOTTOM PLATE	
126	88421045	12	PLOW BOLT, 3/4-10X2-1/4	
127	88521012	12	HEX LOCKNUT, 3/4-10	
128	80653025	1	CUTTING EDGE, BOLT-ON	

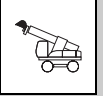


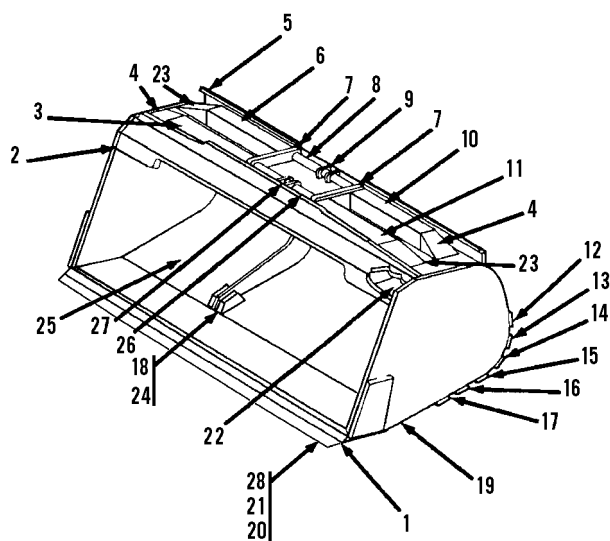
Figure 3-16 66" Ditching Bucket w/Bolt-on Cutting Edge

Item	Part Number	Qty.	Description	Rev.



ATTACHMENTS

Figure 3-17 60" Ditching Bucket w/Bolt-on Cutting Edge



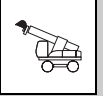


Figure 3-17 60" Ditching Bucket w/Bolt-on Cutting Edge

Item	Part Number	Qty.	Description	Rev.
	80656092	1	60" DITCHING BUCKET, (1.06 Cu. Yd.), (includes items 1 thru 28)	
1	80653024	1	CUTTING EDGE	
2	80651048	1	FRONT STIFFENER	
3	80651044	1	BUCKET STIFFENER	
4	80651026	2	CAP PLATE	
5	80651049	1	REAR STIFFENER	
6	80651047	1	BUCKET STIFFENER	
7	80651599	2	OUTER SUPPORT PLATE	
8	80651046	1	PIN	
9	80651029	2	INSIDE SUPPORT	
10	80651046	1	BUCKET STIFFENER	
11	80651045	1	BUCKET STIFFENER	
12	80651052	1	WEAR STRIP	
13	83451296	1	WEAR STRIP	
14	80651051	1	WEAR STRIP	
15	80951189	1	WEAR STRIP	
16	80951191	1	WEAR STRIP	
17	80651050	1	WEAR STRIP	
18	80651073	2	WEAR PLATE	
19	80651017	2	SIDE PLATE	
20	88421045	8	PLOW BOLT, 3/4-10x2-1/4	
21	88521012	8	HEX LOCKNUT, 3/4-10	
22	80951054	2	GUSSET	
23	80651030	2	REAR END CAP	
24	80651022	1	BUCKET STIFFENER	
25	80651053	1	BOTTOM PLATE	
26	80951011	1	PIN	
27	80951057	2	INSIDE SUPPORT	
28	80653027	1	CUTTING EDGE	



ATTACHMENTS

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SECTION 4

ENGINE & ATTACHING PARTS

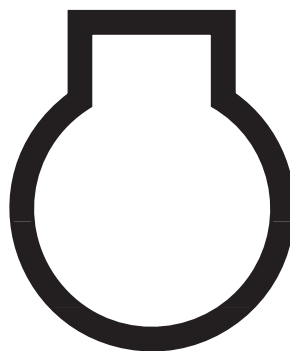
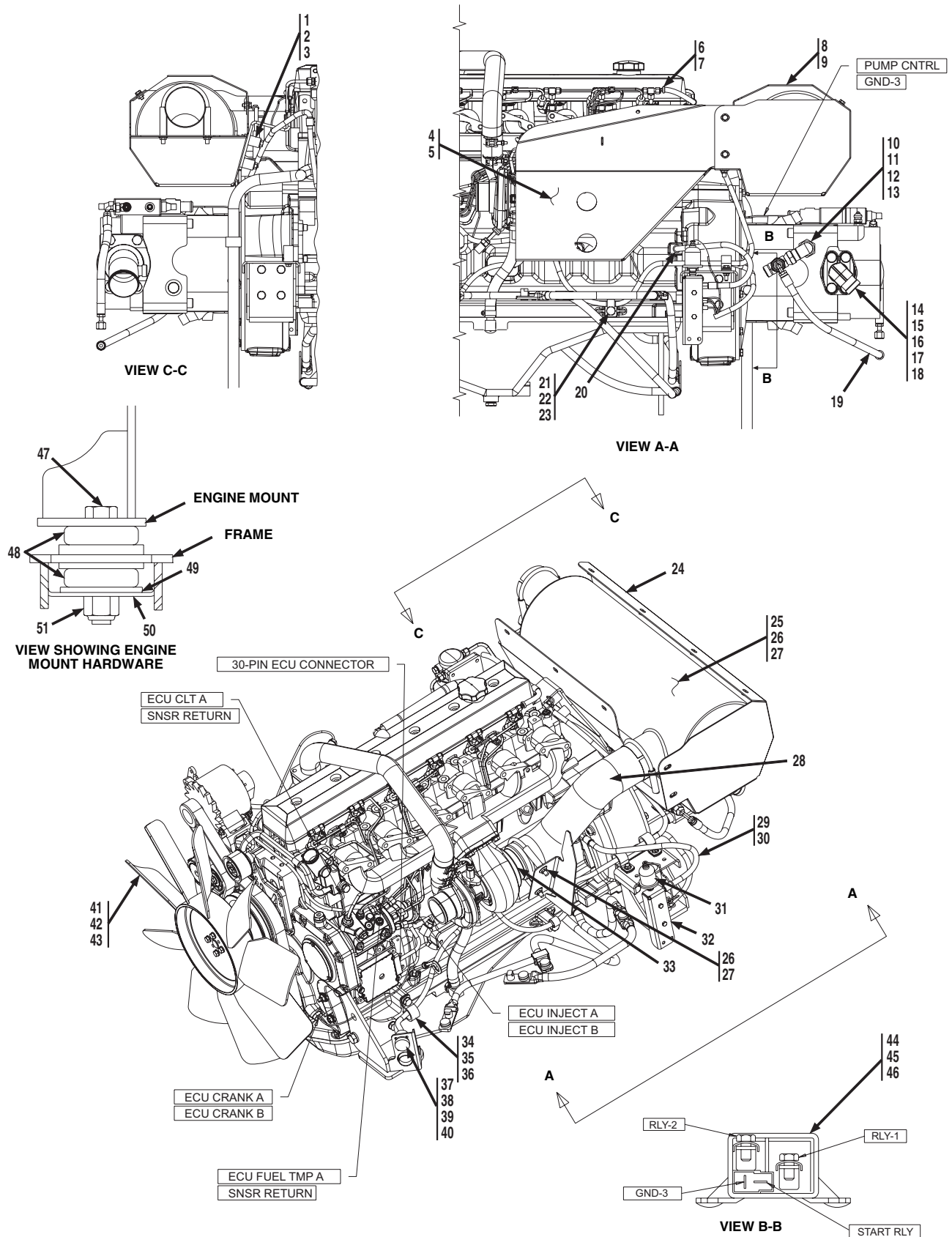




Figure 4-1 Engine Assembly, L.H. View



**Figure 4-1 Engine Assembly, L.H. View**

Item	Part Number	Qty.	Description	Rev.
	80475008	1	POWER UNIT ASSY, (includes items 1 thru 46 & designated items on Figure 4-2)	
1	83201126	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR8, (lubricate & torque to 40-45 lb-ft)	
2	80371106	2	SPACER	
3	90027470	2	HARDENED WASHER, 3/8	
4	80476016	1	EXHAUST SHIELD WELDMENT	
5	80973025	2	WHIZ-LOK BOLT, 3/8-16X1	
6	80373025	1	PUSH-LOK FITTING	
7		AR	FUEL HOSE, 3/8	
8	80371093	1	MUFFLER COVER	
9	77143003	7	WHIZ-LOK BOLT, 5/16-18X5/8	
10	88662429	1	ELBOW, 90 DEGREES, (includes item 11)	
11	88591209	1	O-RING	
12	88662472	1	SWIVEL NUT RUN TEE	
13	88662480	1	SWIVEL NUT REDUCER	
14	88662535	1	FLANGED ELBOW, 90 DEGREES	
15	84712740	2	FLANGE HALF	
16	88201098	4	HEX HD CAPSCREW, 5/8-11X2-1/4, GR5	
17	88551015	4	LOCKWASHER, 5/8	
18	83783043	1	O-RING	
19	84718605	1	HOSE ASSY	
20	88743000	1	MALE ADAPTER, 1/8X1/4 TUBE	
21	91143122	1	SUPPORT CLAMP	
22	91403293	1	HEX HD CAPSCREW, M14-2X25, GR8	
23	83191014	1	LOCKWASHER, M14	
24	80376018	1	MUFFLER SHIELD WELDMENT	
25	80373161	1	MUFFLER	
26	86883127	3	MUFFLER CLAMP	
27	77143015	6	WHIZ-LOK NUT, 3/8-16	
28	80373074	1	EXHAUST PIPE	
29	84718130	1	HOSE ASSY	
30	88661103	1	MALE ELBOW, 90 DEGREES, 1/8X1/4 TUBE	
31	91033246	1	OIL PRESSURE SENDER	
32	80471063	1	MOUNT BRACKET	
33	91403216	1	V-BAND CLAMP	
34	24601710	1	SUPPORT CLAMP	
35	83191032	1	HEX HD CAPSCREW, M12-1.75X35, GR8	
36	83191010	1	LOCKWASHER, M12	
37	88301056	4	ROUND HD MACHINE SCREW, #6-32X5/8	
38	88501608	4	HEX NUT, #6-32	
39	88561103	4	FLAT WASHER, #6	
40	86683122	1	TY-RAP	
41	80473032	1	FAN	
42	88201036	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
43	88551011	4	LOCKWASHER, 3/8	
44	77383377	1	STARTER SOLENOID	
45	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
46	88521304	2	HEX LOCKNUT, 1/4-20	
47	77321274	4	HEX HD CAPSCREW, 7/8-9X5, GR8, (lubricate & torque to 225-250 lb-ft)	



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Figure 4-1 Engine Assembly, L.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.
48	91333003	4	SHOCK MOUNT	
49	80373049	4	REBOUND WASHER	
50	80371089	4	LIMIT PLATE	
51	88521214	4	HEX LOCKNUT, 7/8-9	



Figure 4-1 Engine Assembly, L.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.



Figure 4-1 Engine Assembly, L.H. View

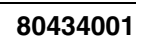




Figure 4-1 Engine Assembly, L.H. View

Item	Part Number	Qty.	Description	Rev.
	80475008	1	POWER UNIT ASSY, (includes items 1 thru 46 & designated items on Figure 4-2)	
1	83201126	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR8, (lubricate & torque to 40-45 lb-ft)	
2	80371106	2	SPACER	
3	90027470	2	HARDENED WASHER, 3/8	
4	80473090	1	FAN	
5	80373024	1	WATER TEMPERATURE SENDER	
6	80376018	1	MUFFLER SHIELD WELDMENT	
7	80373161	1	CE MUFFLER	
8	86883127	3	MUFFLER CLAMP, 4"	
9	77143015	6	WHIZ-LOK NUT, 3/8-16	
10	80373074	1	EXHAUST PIPE	
11	84718130	1	BRAIDED HOSE ASSY	
12	88661103	1	MALE ELBOW, 90 DEGREES, 1/8X1/4 TUBE	
13	91033246	1	OIL PRESSURE SENDER	
14	80471063	1	MOUNT BRACKET	
15	91403216	1	V-BAND CLAMP	
16	24601710	1	SUPPORT CLAMP, 1-15/64	
17	83191032	1	HEX HD CAPSCREW, M12-1.75X35, GR8	
18	83191010	1	LOCKWASHER, M12	
19	88301056	4	ROUND HD MACHINE SCREW, #6-32	
20	88561103	4	FLAT WASHER, #6	
21	88501608	4	HEX NUT, #6-32	
22	86683122	1	TY-RAP	
23	80476016	1	EXHAUST SHIELD WELDMENT	
24	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
25	80373025	1	PUSH-LOK FITTING	
26		AR	FUEL HOSE, 3/8	
27	80371093	1	MUFFLER COVER	
28	77143003	7	WHIZ-LOK SCREW, 5/16-18X5/8	
29	88662429	1	ELBOW, 90 DEGREES, (includes item 30)	
30	88591209	1	O-RING	
31	88662472	1	SWIVEL NUT RUN TEE	
32	88662480	1	SWIVEL NUT REDUCER	
33	88662535	1	FLANGE ELBOW	
34	84712740	2	FLANGE HALF	
35	88201098	4	HEX HD CAPSCREW, 5/8-11X1-1/4, GR5	
36	88551015	4	LOCKWASHER, 5/8	
37	84783043	1	O-RING	
38	84718605	1	HOSE ASSY	
39	88743000	1	MALE ADAPTER, 1/8X1/4 TUBE	
40	91143122	1	SUPPORT CLAMP	
41	91403293	1	HEX HD CAPSCREW, M14-2X25, GR8	
42	83191014	1	LOCKWASHER, M14	
43	77383377	1	STARTER SOLENOID	
44	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
45	88521304	2	HEX LOCKNUT, 1/4-20	
46	77321274	4	HEX HD CAPSCREW, 7/8-9X5, GR8, (lubricate & torque to 225-250 lb-ft)	
47	80373049	4	REBOUND WASHER	



ENGINE & ATTACHING PARTS

S/N 0210017498 thru 0210018098
& 4300000029 & After

Figure 4-1 Engine Assembly, L.H. View

Item	Part Number	Qty.	Description	Rev.
48	80371089	4	LIMIT PLATE	
49	88521214	4	HEX LOCKNUT, 7/8-9	
50	80474037	1	ALTERNATOR	
51	80474020	1	ALTERNATOR PULLEY	
52	80474022	1	ALTERNATOR PULLEY BUSHING	



Figure 4-1 Engine Assembly, L.H. View

Item	Part Number	Qty.	Description	Rev.



ENGINE & ATTACHING PARTS

Figure 4-1 Engine Assembly, L.H. View XL4300II CE

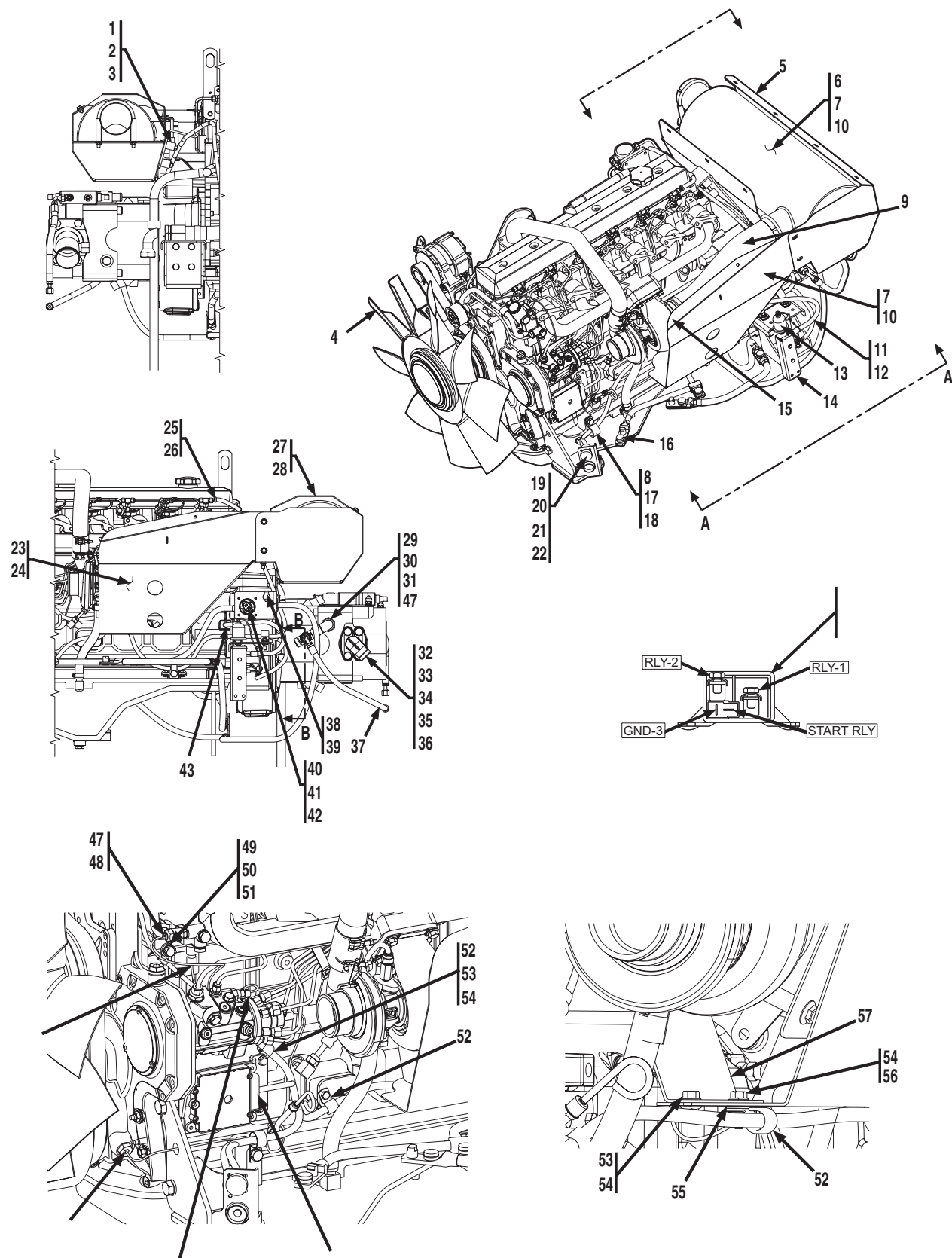




Figure 4-1 Engine Assembly, L.H. View XL4300II CE

Item	Part Number	Qty.	Description	Rev.
	80475011	1	CE ENGINE ASSY, (includes all items)	
1	83201126	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR8, (lubricate & torque to 40-45 lb-ft)	
2	80371106	1	SPACER	
3	90027470	2	HARDENED WASHER, 3/8	
4	80473090	1	FAN	
5	80376018	1	MUFFLER SHIELD WELDMENT	
6	80373161	1	CE MUFFLER	
7	86883127	3	MUFFLER CLAMP, 4"	
8	83191032	1	HEX HD CAPSCREW, M12-1.75X35, GR8	
9	80373074	1	EXHAUST PIPE	
10	77143015	6	WHIZ-LOK NUT, 3/8-16	
11	84718130	1	BRAIDED HOSE ASSY	
12	88661103	1	MALE ELBOW, 90 DEGREES, 1/8X1/4 TUBE	
13	91033248	1	OIL PRESSURE SENDER	
14	80471063	1	MOUNT BRACKET	
15	91403216	1	V-BAND CLAMP	
16	80473069	1	NEGATIVE BATTERY CABLE, (black)	
17	80673023	1	SUPPORT CLAMP, 1-1/16	
18	83191010	1	LOCKWASHER, M12	
19	88301056	4	ROUND HD MACHINE SCREW, #6-32X5/8	
20	88501608	4	HEX NUT, #6-32	
21	88561103	4	FLAT WASHER, #6	
22	86683122	1	TY-RAP	
23	80476016	1	MUFFLER COVER	
24	80973025	2	WHIZ-LOK SCREW, 3/8-16X1	
25	80373025	1	PUSH-LOK FITTING	
26		AR	NYLON FUEL LINE, 3/8	
27	80371093	1	MUFFLER COVER	
28	77143003	7	WHIZ-LOK SCREW, 5/16-18X5/8	
29	88662429	1	ELBOW, 90 DEGREES, (includes item 47)	
30	88662472	1	SWIVEL NUT RUN TEE	
31	88662480	1	REDUCING BUSHING	
32	88662535	1	FLANGE ELBOW, 90 DEGREES	
33	84712740	2	FLANGE HALF	
34	88201098	4	HEX HD CAPSCREW, 5/8-11X2-1/4, GR5	
35	88551015	4	LOCKWASHER, 5/8	
36	83783043	1	O-RING	
37	84718605	1	HOSE ASSY	
38	80373132	1	POWER OUTLET	
39	80463051	1	POWER OUTLET HARNESS	
40	80373133	1	BATTERY DISCONNECT SWITCH	
41	88301101	4	ROUND HD MACHINE SCREW, #10-24X2-1/4	
42	88521605	4	HEX LOCKNUT, #10-24	
43	88743000	1	MALE ADAPTER, 1/8X1/4 TUBE	
44	77383377	1	STARTER SOLENOID	
45	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
46	88521304	2	HEX LOCKNUT, 1/4-20	
47	80373024	1	WATER TEMPERATURE SENDER	
48	88591506	1	O-RING	



ENGINE & ATTACHING PARTS

Figure 4-1 Engine Assembly, L.H. View XL4300II CE

Item	Part Number	Qty.	Description	Rev.
49	86621230	1	SUPPORT CLAMP	
50	0761010	1	HEX HD CAPSCREW, M10-1.5X20	
51	90027470	1	HARDENED WASHER, 3/8	
52	24861170	3	SUPPORT CLAMP	
53	0791505	2	WHIZ-LOK SCREW, 5/16-18X5/8	
54	77143006	3	WHIZ-LOK NUT, 5/16-18	
55	4751500	1	FLAT WASHER, 5/16	
56	0791508	1	WHIZ-LOK SCREW, 5/16-18X1	
57	80471203	1	HEAT SHIELD	
	80474018	1	ENGINE FILTER KIT, (includes all items)	
	80474014	1	AIR FILTER	
	80474013	1	SAFETY ELEMENT, (air)	
	91534004	1	FUEL FILTER, (secondary)	
	91083218	1	FUEL FILTER, (primary)	
	91534005	1	OIL FILTER	
	91534006	1	OIL FILTER SEAL	



Figure 4-1 Engine Assembly, L.H. View XL4300II CE

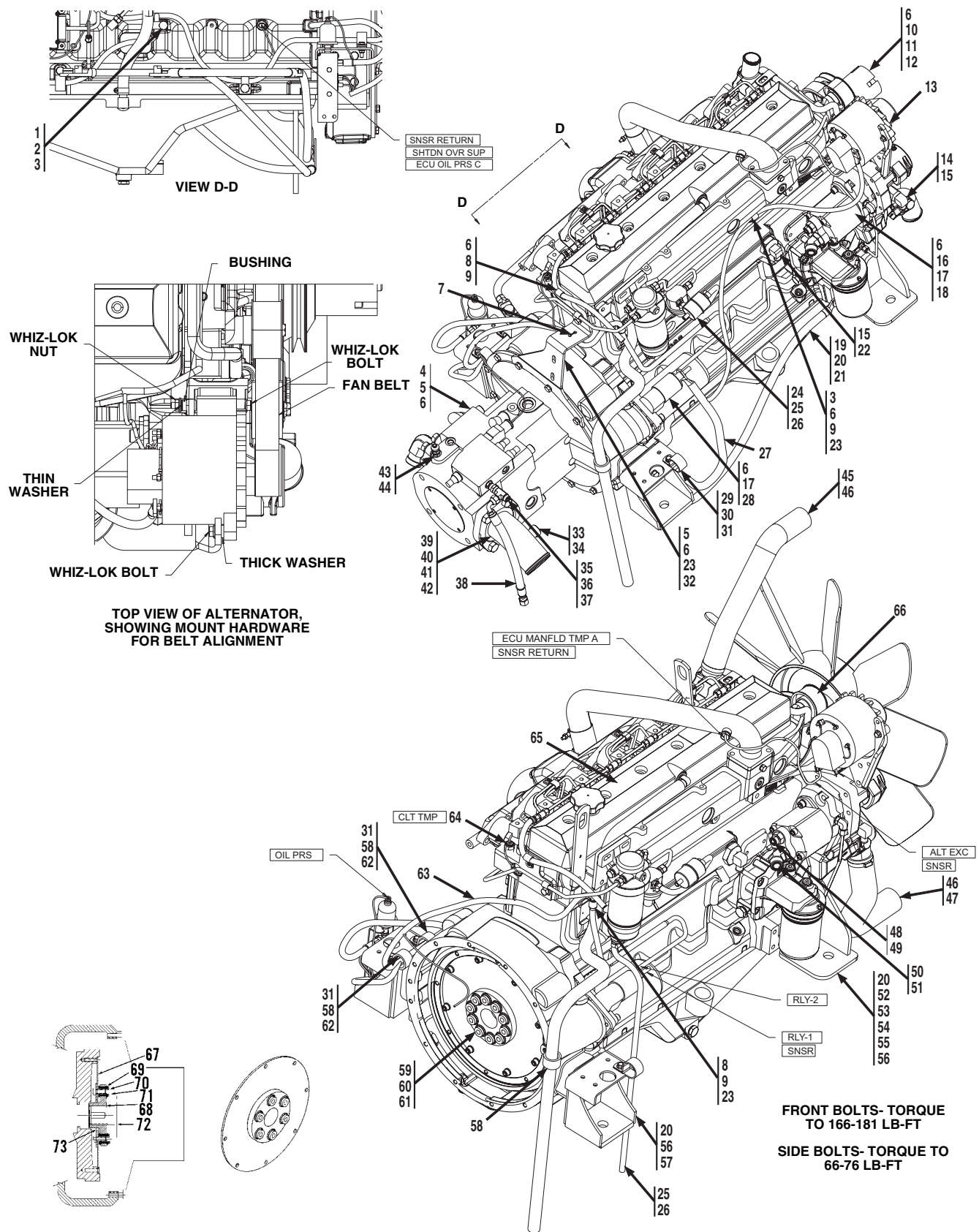
Item	Part Number	Qty.	Description	Rev.



ENGINE & ATTACHING PARTS

Before S/N 0210017498

Figure 4-2 Engine Assembly, R.H. View



**Figure 4-2 Engine Assembly, R.H. View**

Item	Part Number	Qty.	Description	Rev.
	80475008	1	POWER UNIT ASSY, (includes all items except 59, 67 thru 73 & designated items on Figure 4-1)	
1	83191014	1	LOCKWASHER, M14	
2	91403293	1	HEX HD CAPSCREW, M14-2X25, GR8	
3	91143122	2	SUPPORT CLAMP, 5/8	
4		Ref	MAIN HYDRAULIC PUMP ASSY, (see Figure 9-7 for details)	
5	83191021	13	HEX HD CAPSCREW, M10-1.5X30, GR8, (lubricate & torque to 38-48 lb-ft)	
6	83191013	24	LOCKWASHER, M10	
7	86683122	1	TY-RAP	
8	85941016	2	SUPPORT CLAMP	
9	83191038	3	HEX HD CAPSCREW, M10-1.5X20, GR8, (lubricate & torque to 38-48 lb-ft)	
10	80373112	1	A/C DRIVE PULLEY	
11	80471057	1	FAN SPACER	
12	83191081	4	SOCKET HD CAPSCREW, M10-1.5X70, GR8	
13	80973108	1	ALTERNATOR, (includes regulator)	
	80973114	1	REGULATOR	
	80474020	1	ALTERNATOR PULLEY	
	80474022	1	BUSHING	
14	80373047	1	ADAPTER	
15	84712749	2	BRASS ELBOW	
16		Ref	GEAR PUMP ASSY, (see Figure 9-27 for details)	
17	83191040	5	SOCKET HD CAPSCREW, M10-1.5X30, GR8, (lubricate & torque to 38-48 lb-ft)	
18	86671112	1	GASKET	
19	80473054	1	NEGATIVE BATTERY CABLE, (black)	
20	83191032	11	HEX HD CAPSCREW, M12-1.75X35, GR8, (lubricate & torque to 66-76 lb-ft)	
21	88561006	1	FLAT WASHER, 1/2	
22	80373046	1	REDUCING BUSHING	
23	88561005	3	FLAT WASHER, 7/16	
24	91083218	1	FUEL STRAINER	
25		AR	FUEL HOSE, 5/16	
26	86883106	3	HOSE CLAMP	
27	80473053	1	POSITIVE BATTERY CABLE, (red)	
28	91413104	1	STARTING MOTOR	
29	85841150	1	SUPPORT CLAMP, 1-1/2	
30	77143003	1	WHIZ-LOK BOLT, 5/16-18X5/8	
31	77143006	3	WHIZ-LOK NUT, 5/16-18	
32	80371026	1	MUFFLER BRACKET	
33	84719549	1	HOSE ASSY	
34	88591508	1	O-RING	
35	88662301	1	CONNECTOR, (includes item 36)	
36	88591204	1	O-RING	
37	88662446	1	SWIVEL NUT RUN TEE	
38	84719883	1	HOSE ASSY	
39	88551015	4	LOCKWASHER, 5/8	
40	88201096	4	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5, (lubricate & torque to 140-155 lb-ft)	
41	80933139	1	O-RING	
42	80433107	1	SUCTION ELBOW	
43	77133089	1	MINI-CHECK COUPLING, (includes item 44)	
44	83763056	1	VITON O-RING, (lubricate lightly)	



ENGINE & ATTACHING PARTS

Before S/N 0210017498

Figure 4-2 Engine Assembly, R.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.
45	80473035	1	UPPER RADIATOR HOSE	
46	86883327	4	HOSE CLAMP	
47	80473036	1	LOWER RADIATOR HOSE	
48	88662430	1	STRAIGHT THD CONNECTOR, (includes item 49)	
49	88591206	1	O-RING	
50	88662421	1	ELBOW, 45 DEGREES, (includes item 51)	
51	88591207	1	O-RING	
52	80476005	1	ENGINE MOUNT, L.H., FRONT	
53	80476004	1	ENGINE MOUNT, R.H., FRONT	
54	83783030	4	LOCKWASHER, M16	
55	83191043	4	HEX HD CAPSCREW, M16-2X30, GR8, (front), (lubricate & torque to 166-177 lb-ft)	
56	83191010	10	LOCKWASHER, M12	
57	80476003	2	REAR ENGINE MOUNT	
58	24601710	3	SUPPORT CLAMP	
59	80473027	1	FLYWHEEL COUPLER	
60	88551011	8	LOCKWASHER, 3/8	
61	88211068	8	SOCKET HD CAPSCREW, 3/8-16X5/8, GR8, (lubricate & torque to 40-45 lb-ft)	
62	77143004	2	WHIZ-LOK BOLT, 5/16-18X1-1/4	
63	80463002	1	ENGINE HARNESS	
64	77383752	1	WATER TEMPERATURE SENDER	
65	80473028	1	DEERE ENGINE	
66	80474021	1	FAN BELT	
67	80474019	1	FLYWHEEL PLATE	
68	80974035	1	COUPLING HUB	
69	80374007	8	NEOPRENE INSERT	
70	80374008	8	THREADED BUSHING	
71	80374009	8	HEX HD CAPSCREW	
72	80374010	1	HUBBARD PLUG	
73	80974038	1	BACKING PLATE	
	80474018	1	ENGINE FILTER KIT, (includes all items)	
	80474014	1	AIR FILTER	
	80474013	1	SAFETY ELEMENT, (air)	
	91534004	1	FUEL FILTER, (secondary)	
	91083218	1	FUEL FILTER, (primary)	
	91534005	1	OIL FILTER	
	91534006	1	OIL FILTER SEAL	



Figure 4-2 Engine Assembly, R.H. View (Continued)

Item	Part Number	Qty.	Description	Rev.



Figure 4-2 Engine Assembly, R.H. View

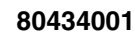




Figure 4-2 Engine Assembly, R.H. View

Item	Part Number	Qty.	Description	Rev.
	80475008	1	POWER UNIT ASSY, (includes all items except 59, 67 thru 73 & designated items on Figure 4-1)	
1		Ref	MAIN HYDRAULIC PUMP ASSY, (see Figure 9-7 for details)	
2	83191021	13	HEX HD CAPSCREW, M10-1.5X30, GR8, (lubricate & torque to 38-48 lb-ft)	
3	83191013	21	LOCKWASHER, M10	
4	86683122	1	TY-RAP	
5	85941016	1	SUPPORT CLAMP	
6	83191038	2	HEX HD CAPSCREW, M10-1.5X20, GR8, (lubricate & torque to 38-48 lb-ft)	
7	80473091	1	FAN CLUTCH	
8	83191027	4	HEX HD CAPSCREW, M10-1.5X30, GR8	
9	80373112	1	AC DRIVE PULLEY	
10	80373047	1	ADAPTER	
11	84712749	2	BRASS ELBOW	
12		Ref	GEAR PUMP ASSY, (see Figure 9-27 for details)	
13	83191040	2	SOCKET HD CAPSCREW, M10-1.5X30, GR8	
14	86671112	1	GASKET	
15	80473054	1	POSITIVE BATTERY CABLE	
16	83191032	1	HEX HD CAPSCREW, M12-1.75X35, GR8	
17	88561006	1	LOCKWASHER, 1/2	
18	80373046	1	REDUCING BUSHING	
19	88561005	2	FLAT WASHER, 7/16	
20	91143122	1	SUPPORT CLAMP, 5/8	
21	91083218	1	FUEL STRAINER	
22		AR	FUEL HOSE, 5/16	
23	86883106	2	HOSE CLAMP	
24	80473089	1	NEGATIVE BATTERY CABLE	
25	85841150	1	SUPPORT CLAMP, 1-1/2	
26	77143003	1	WHIZ-LOK SCREW, 5/16-18X1-1/4	
27	77143006	1	WHIZ-LOK NUT, 5/16-18	
28	80371026	1	MUFFLER BRACKET	
29	84719549	1	HOSE ASSY	
30	88591508	1	O-RING	
31	88662301	1	CONNECTOR, (includes item 32)	
32	88591204	1	O-RING	
33	88662446	1	SWIVEL NUT RUN TEE	
34	84719883	1	HOSE ASSY	
35	80433107	1	SUCTION ELBOW	
36	80933139	1	O-RING	
37	88201096	4	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5, (lubricate & torque to 140-155 lb-ft)	
38	88551015	4	LOCKWASHER, 5/8	
39	77133089	1	MINI-CHECK COUPLING, (includes item 40)	
40	83763056	1	VITON O-RING, (lubricate lightly)	
41	91143122	1	SUPPORT CLAMP, 1-1/2	
42	91403293	1	HEX HD CAPSCREW M14-2X25	
43	83191014	1	LOCKWASHER, M14	
44	24601710	3	SUPPORT CLAMP, 1-15/64	
45	77143003	2	WHIZ-LOK SCREW, 5/16-18X1-1/4	
46	77143006	2	WHIZ-LOK NUT, 5/16-18	
47	80463113	1	ENGINE HARNESS	



ENGINE & ATTACHING PARTS

S/N 0210017498 thru 0210018098
& 4300000029 & After

Figure 4-2 Engine Assembly, R.H. View

Item	Part Number	Qty.	Description	Rev.
48	80473028	1	DEERE ENGINE	
49	80473035	1	UPPER RADIATOR HOSE	
50	86883327	4	HOSE CLAMP	
51	80473036	1	LOWER RADIATOR HOSE	
52	88662430	1	CONNECTOR, (includes item 66)	
53	88662421	1	ELBOW, 45 DEGREES, (includes item 67)	
54	80476005	1	L/H FRONT ENGINE MOUNT	
55	80476004	1	R/H FRONT ENGINE MOUNT	
56	83191043	4	HEX HD CAPSCREW, M16-2X30, GR8, (front bolts), (lubricate & torque to 166-181 lb-ft)	
57	83783030	4	LOCKWASHER, M16	
58	83191032	10	HEX HD CAPSCREW, M12-1.75X35, (side bolts), (lubricate & torque to 66-76 lb-ft)	
59	83191010	10	LOCKWASHER, M12	
60	80476003	2	REAR ENGINE MOUNT	
61		AR	FUEL HOSE, 5/16	
62	86683106	1	HOSE CLAMP	
63	80473027	Ref	PUMP COUPLER ASSY, (includes items 68 thru 74)	
64	88211068	8	SOCKET HD CAPSCREW, 3/8-16X5/8, GR8, (lubricate & torque to 40-45 lb-ft)	
65	88551011	8	LOCKWASHER, 3/8	
66	88591206	1	O-RING	
67	88591207	1	O-RING	
68	80474019	1	FLYWHEEL PLATE	
69	80974035	1	COUPLING HUB	
70	80374007	8	NEOPRENE INSERT	
71	80374008	8	THREADED BUSHING	
72	80374010	1	HUBBARD PLUG	
73	80974038	1	BACKING PLATE	
74	80374009	8	HEX HD CAPSCREW	
75	7026921	1	STARTER	
76	80474036	3	CAPSCREW	
101	80373024	1	TEMPERATURE SENDER	
102	88591506	1	O-RING	
103	86621230	1	SUPPORT CLAMP	
103	0761010	1	HEX HD CAPSCREW, m10-1.5X20	
105	90027470	1	HARDENED WASHER, 3/8	
106	24861170	3	SUPPORT CLAMP	
107	0791505	2	WHIZ-LOK SCREW, 5/16-18X5/8	
108	77143006	3	WHIZ-LOK NUT, 5/16-18	
109	4751500	1	FLAT WASHER, 5/16	
110	80471203	1	HEAT SHIELD	
111	0791508	1	WHIZ-LOK SCREW, 5/16-18X1	
	80474018	1	ENGINE FILTER KIT, (includes all items)	
	80474014	1	AIR FILTER	
	80474013	1	SAFETY ELEMENT, (air)	



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ENGINE & ATTACHING PARTS

Figure 4-2 Engine Assembly, R.H. View

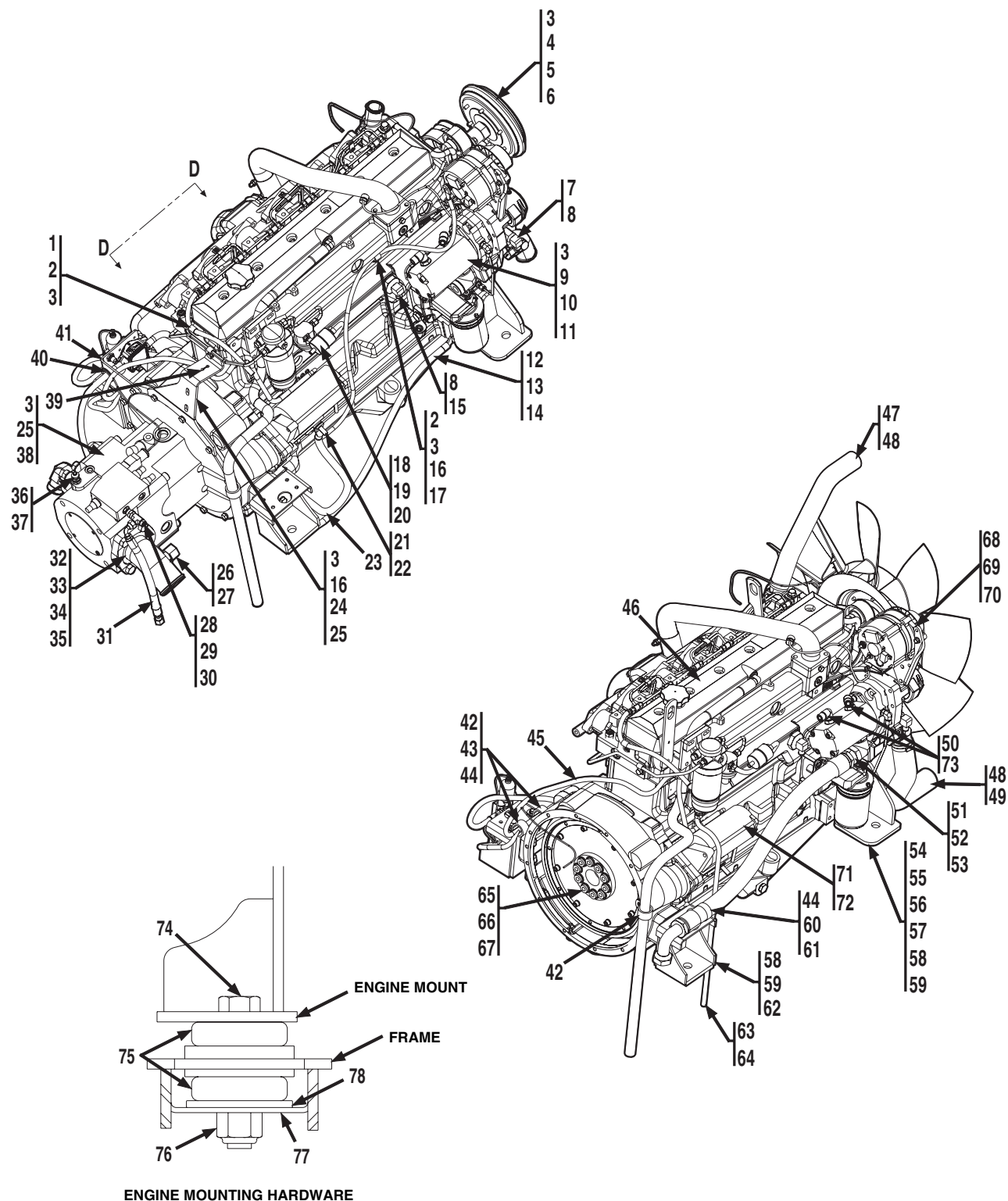




Figure 4-2 Engine Assembly, R.H. View, CE Engine

Item	Part Number	Qty.	Description	Rev.
	80475011	1	CE ENGINE ASSY, (includes all items)	
1	24861170	1	SUPPORT CLAMP	
2	83191038	2	HEX HD CAPSCREW, M10-1.5X20, GR8, (lubricate & torque to 38-48 lb-ft)	
3	80373112	1	AIR CONDITIONER DRIVE PULLEY	
4	83191013	21	LOCKWASHER, M10	
5	80473091	1	FAN CLUTCH	
6	0701015	4	HEX HD CAPSCREW, M10-1.5X35	
7	80374047	1	METRIC ADAPTER	
8	84712749	2	BRASS ELBOW	
9		Ref	GEAR PUMP ASSY, (see Figure 9-28 for details)	
10	83191040	2	HEX SOCKET HD CAPSCREW, M10-1.5X30	
11	86671112	1	GASKET	
12	80473070	1	NEGATIVE BATTERY CABLE, (black)	
13	83191032	1	HEX HD CAPSCREW, M12-1.75X35, GR8	
14	88561006	1	FLAT WASHER, 1/2	
15	80373046	1	REDUCING BUSHING	
16	88561005	2	FLAT WASHER, 7/16	
17	91143122	1	SUPPORT CLAMP, 5/8	
18	91083218	1	FUEL STRAINER	
19		AR	FUEL LINE, 3/8 I.D.	
20	86883106	2	HOSE CLAMP	
21	3331205	1	HEX LOCKNUT, M12-1.75	
22	83191010	1	LOCKWASHER, M12	
23	80473089	1	POSITIVE BATTERY CABLE, (ered)	
24	80371026	1	MUFFLER BRACKET	
25	83191021	13	HEX HD CAPSCREW, M10-1.5X30, GR8, (lubricate & torque to 38-48 lb-ft)	
26	84714006	1	HEX CAP	
27	88591508	1	O-RING	
28	88662301	1	CONNECTOR, (includes item 29)	
29	88591204	1	O-RING	
30	88662446	1	SWIVEL NUT RUN TEE	
31	84719883	1	HOSE ASSY	
32	80433107	1	SUCTION ELBOW	
33	80933139	1	O-RING	
34	88201096	4	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5, (lubricate & torque to 140-155 lb-ft)	
35	88551015	4	LOCKWASHER, 5/8	
36	77133089	1	MINI-CHECK COUPLING, (includes itwm 37)	
37	83763056	1	VITON O-RING, (lubricate lightly)	
38		Ref	MAIN HYDRAULIC PUMP ASSY, (see Figure 9-7 for details)	
39	86683122	1	TY-RAP	
40	85131075	1	GROMMET	
41	80471082	1	CE BRACKET	
42	24601710	3	SUPPORT CLAMP, 1-15/64	
43	77143004	2	WHIZ-LOK SCREW, 5/16-18X1-1/4	
44	77143006	3	WHIZ-LOK NUT, 5/16-18	
45	80463113	1	ENGINE HARNESS	
46	80473028	1	DEERE ENGINE	
47	80473035	1	UPPER RADIATOR HOSE	
48	86883327	4	HOSE CLAMP	



ENGINE & ATTACHING PARTS

Figure 4-2 Engine Assembly, R.H. View, CE Engine

Item	Part Number	Qty.	Description	Rev.
49	80473036	1	LOWER RADIATOR HOSE	
50	88662435	2	ELBOW, 90 DEGREES, (includes item 72)	
51	88662455	1	ELBOW, 90 DEGREES, (includes item 52)	
52	88591209	1	O-RING	
53	84719889	1	HOSE ASSY	
60	90028660	1	SUPPORT CLAMP	
61	0791505	1	WHIZ-LOK SCREW, 5/16-18X3/8	
62	80476003	2	REAR ENGINE MOUNT	
63		AR	FUEL HOSE, 5/16	
64	86883106	1	HOSE CLAMP	
65	80473027	1	FLYWHEEL COUPLER	
66	88211068	8	HEX SOCKET HD CAPSCREW, 3/8-16X5/8, gr8, (lubricate & torque to 40-45 lb-ft)	
67	88551011	8	LOCKWASHER, 3/8	
68	80973108	1	ALTERNATOR, (includes regulator)	
	80973114	1	REGULATOR	
69	80474020	1	ALTERNATOR PULLEY	
70	80474022	1	BUSHING	
71	7026921	1	STARTER	
72	80474036	3	HEX HD CAPSCREW	
73	88591206	2	O-RING	
74	77321274	4	HEX HD CAPSCREW, 7/8-9X5, GR8, (lubricate & torque to 225-250 lb-ft)	
75	91333003	4	SHOCK MOUNT	
76	88521214	4	HEX LOCKNUT, 7/8-9	
77	80371089	4	LIMIT PLATE	
78	80373049	4	REBOUND WASHER	



Figure 4-2 Engine Assembly, R.H. View, CE Engine

Item		Qty.	Description	Rev.



ENGINE & ATTACHING PARTS

Figure 4-3 Deere Engine

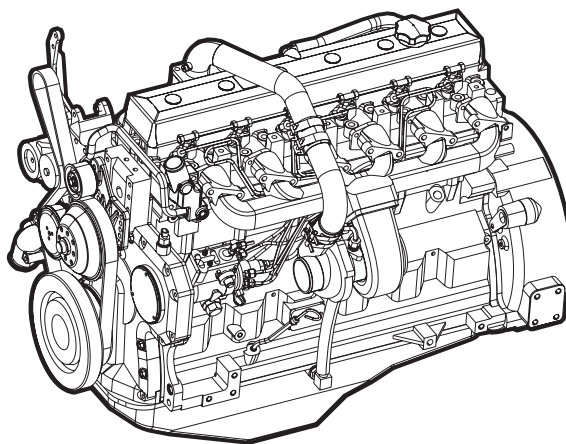




Figure 4-3 Deere Engine

Item	Part Number	Qty.	Description	Rev.
	80473028		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	
	80474025	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	
	80474026	1	FAN PULLEY	
	91474505	4	FAN PULLEY SCREW	
	80374034	1	FAN PULLEY SPACER	
	91404238	1	FAN PULLEY SLEEVE	
	80474027	1	BEARING HOUSING, (w/bearing)	
	91404241	3	OIL PAN PLUG	
	80374024	1	OIL PAN GASKET	
	91404243	2	OIL DRAIN O-RING	
	91404065	1	INJECTOR PACKING	
	80474080	1	INJECTOR NOZZLE	
	80474028	1	INJECTOR PLUG	
	80374042	1	FLYWHEEL w/RING GEAR	
	80374251	1	REAR MAIN SEAL	
	91404251	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	
	80474029	1	THERMOSTAT	
	7026927	1	THERMOSTAT COVER SEAL	
	80374128	1	VALVE COVER GASKET	
	91404258	1	VALVE COVER FILLER CAP	
	80474030	1	PARTS MANUAL	
	80474031	1	SERVICE MANUAL	
	80373102	1	OPERATORS MANUAL	
	80474032	1	WATER TEMPERATURE SENDER	



ENGINE & ATTACHING PARTS

Figure 4-4 Air Cleaner & Installation

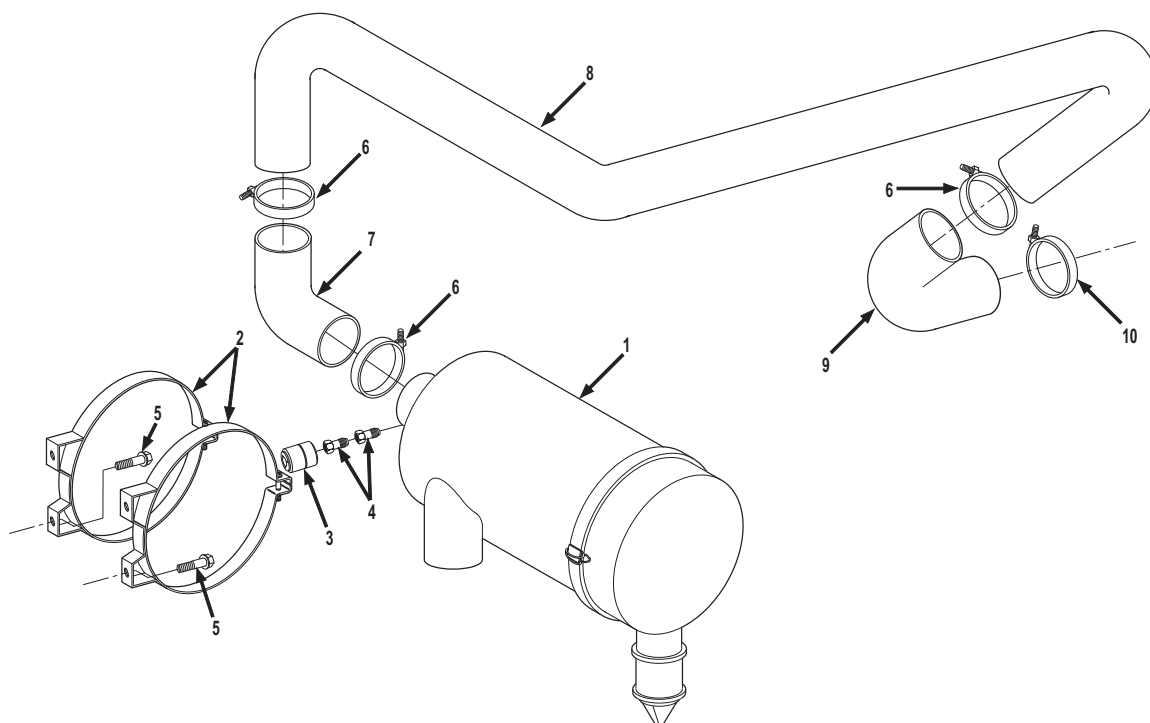




Figure 4-4 Air Cleaner & Installation

Item	Part Number	Qty.	Description	Rev.
1		Ref	AIR CLEANER, (see Figure 4-5 for details)	
2	80473044	2	MOUNTING BAND	
3	77383154	1	SERVICE INDICATOR	
4	88691304	2	STRAIGHT CONNECTOR	
5	91363018	4	WHIZ-LOK BOLT, 5/16-18X1	
6	77383790	3	HOSE CLAMP, 4-3/8"	
7	09523572	1	ELBOW, 90 DEGREES	
8	80473041	1	AIR INTAKE TUBE	
9	91153007	1	ELBOW REDUCER, 90 DEGREES	
10	91163137	1	HOSE CLAMP	



ENGINE & ATTACHING PARTS

Figure 4-5 Air Cleaner

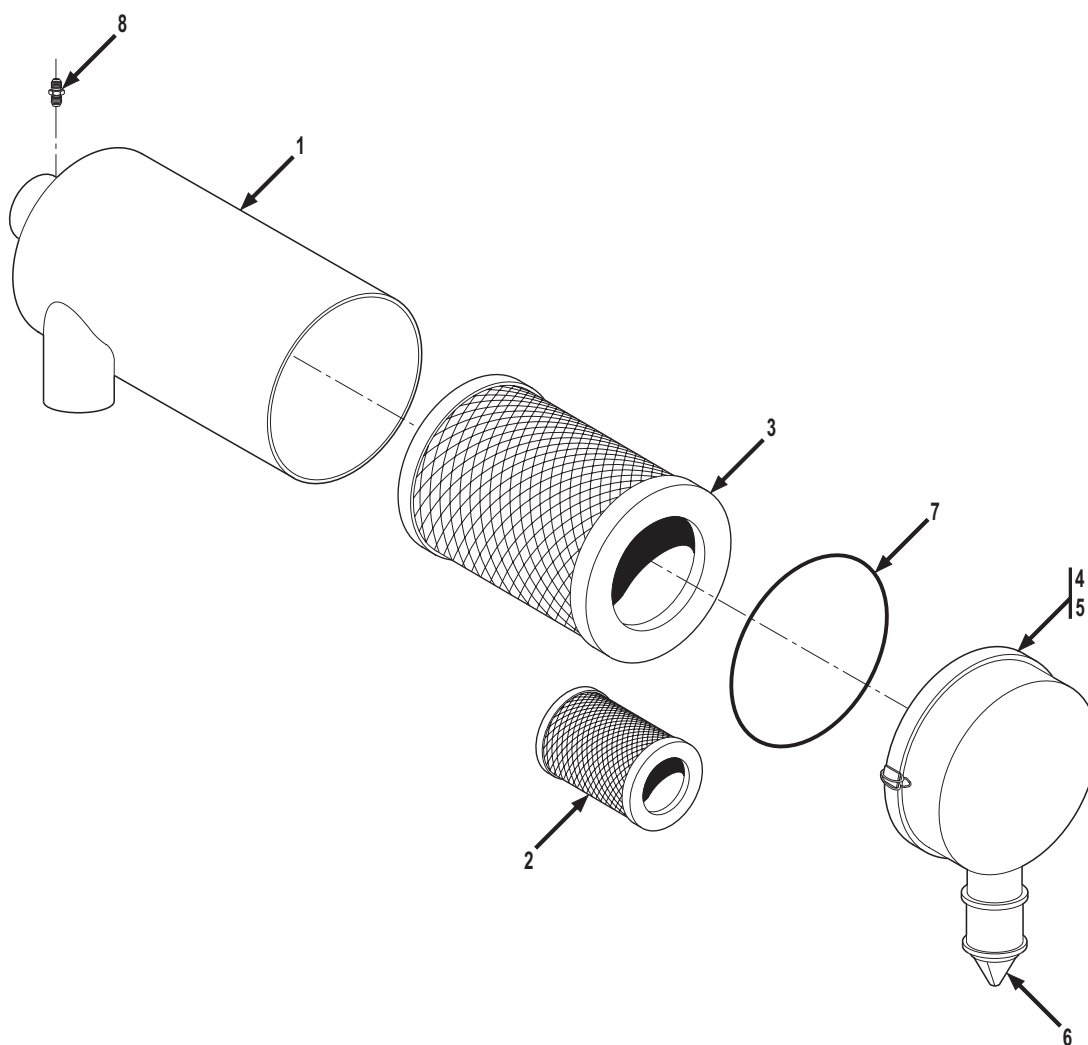


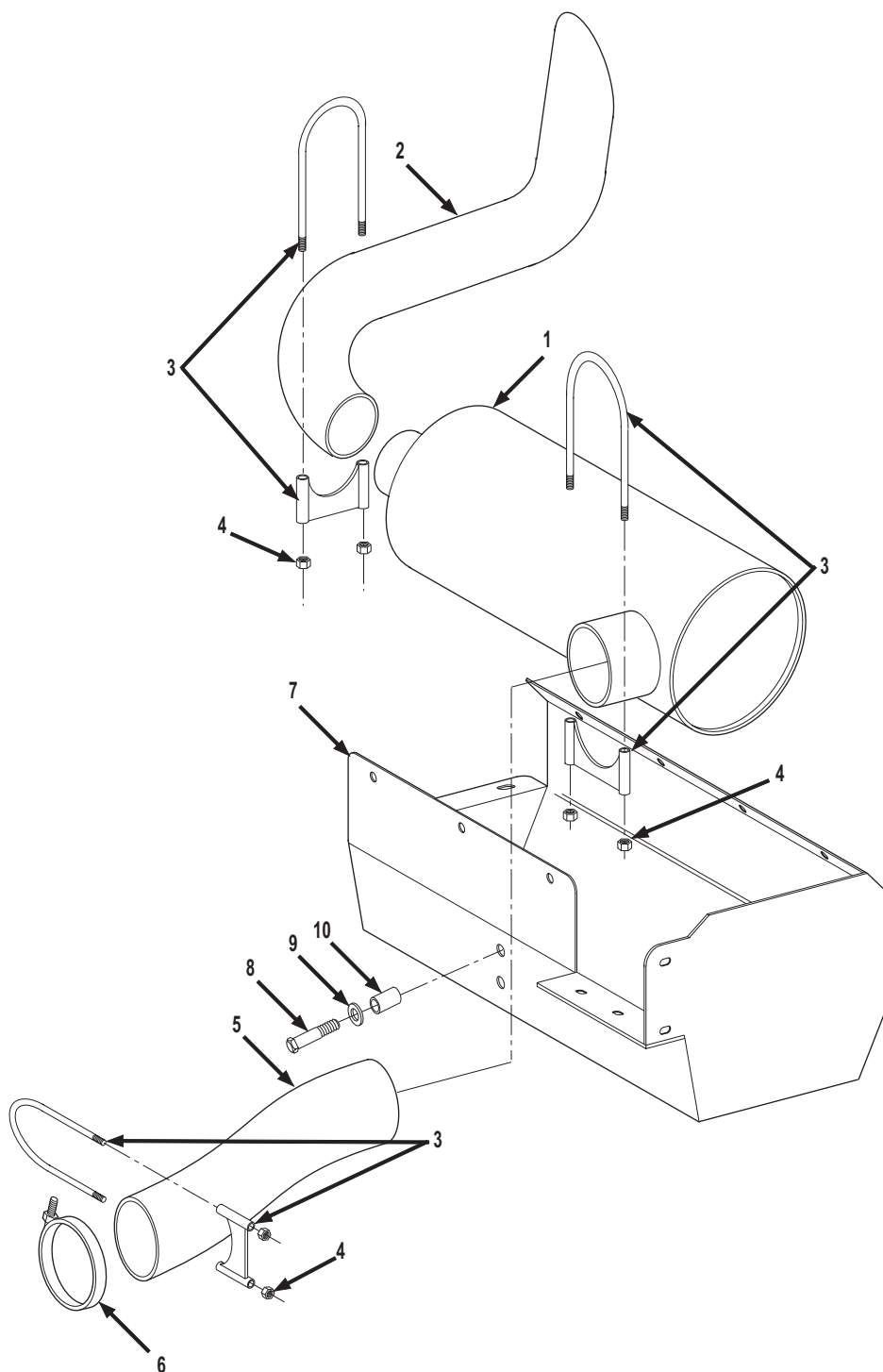


Figure 4-5 Air Cleaner

Item	Part Number	Qty.	Description	Rev.
	80473043	1	AIR CLEANER, (includes all items)	
1		1	AIR CLEANER BODY	
2	80474013	1	SAFETY FILTER ELEMENT	
3	80474014	1	FILTER ELEMENT	
4	80474015	1	COVER ASSY, (includes item 5)	
5	80373095	3	LATCH	
6	80274006	1	VACUATOR VALVE	
7	80474016	1	COVER GASKET	
8	80474017	1	ADAPTER	



Figure 4-6 Exhaust System



NOTE: FOR ADDITIONAL EXHAUST SHIELD
COMPONENTS SEE FIGURE 4-1.



Figure 4-6 Exhaust System

Item	Part Number	Qty.	Description	Rev.
1	80373161	1	CE MUFFLER	
2	80473048	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	





Figure 4-7 Fuel Tank Assembly

Item	Part Number	Qty.	Description	Rev.
	80475002	1	FUEL TANK & RESERVOIR ASSY, (includes all items except 13 & designated items on Figure 9-16)	
1	80473002	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	88561004	4	FLAT WASHER, 3/8	
8	88501006	4	HEX NUT, 3/8-16	
9	80471005	1	BODY STIFFENER	
10	80471022	1	ANGLE	
11	86883106	3	HOSE CLAMP	
12	88711282	1	HEX SOCKET PIPE PLUG, 3/8	
13		AR	NYLON TUBE, 5/16	
14	80373014	1	FUEL LEVEL SENDER	
15	80373051	1	FUEL TANK VENT	



ENGINE & ATTACHING PARTS

Figure 4-8 Oil Cooler, Radiator & Hoses

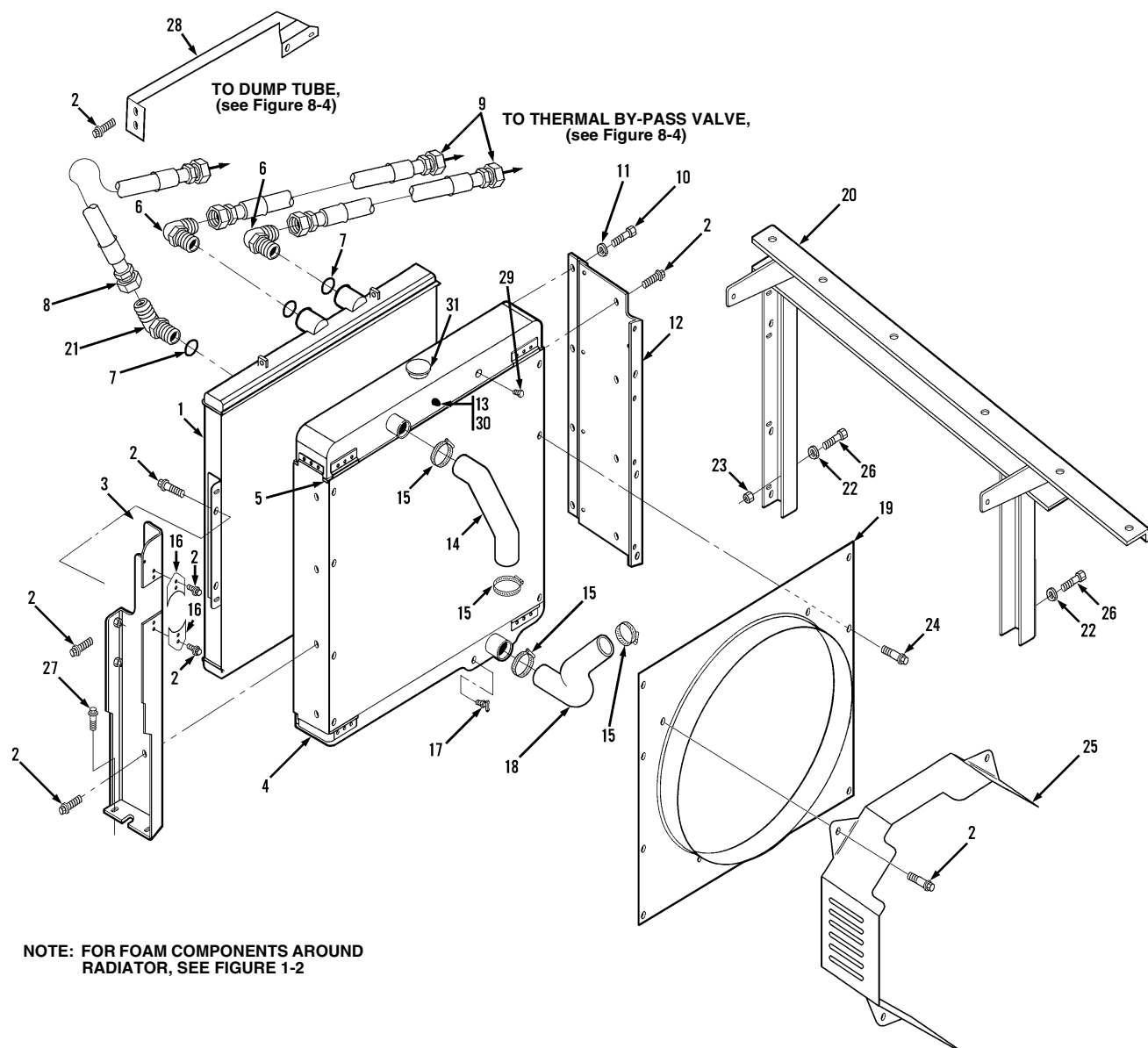




Figure 4-8 Oil Cooler, Radiator & Hoses

Item	Part Number	Qty.	Description	Rev.
1	80473016	1	OIL COOLER	
2	80303094	19	WHIZ-LOK BOLT, 3/8-16X3/4	
3	80471058	1	OUTSIDE SUPPORT WELDMENT	
4	80473015	1	RADIATOR	
5	90200755	AR	FOAM GASKET TAPE	
6	88662334	2	ELBOW, 90 DEGREES, (includes item 7)	
7	88591210	3	O-RING	
8	84719769	1	HOSE ASSY	
9	84719770	2	HOSE ASSY	
10	88201033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
11	88551107	4	LOCKWASHER, (hi-collar), 3/8	
12	80476006	1	INSIDE SUPPORT WELDMENT	
13	80973018	1	COOLANT LEVEL SENDER	
14	80373099	1	UPPER RADIATOR HOSE	
15	86883327	4	HOSE CLAMP	
16	80471025	2	RETAINER PLATE	
17	84521056	1	DRAIN COCK	
18	80473036	1	LOWER RADIATOR HOSE	
19	80473038	1	FAN SHROUD	
20	80476012	1	SUPPORT WELDMENT	
21	88662424	1	ELBOW, 45 DEGREES, (includes item 7)	
22	88561006	6	FLAT WASHER, 1/2	
23	77143014	6	WHIZ-LOK NUT, 1/2-13	
24	80263012	8	WHIZ-LOK BOLT, 1/4-20X1/2	
25	80471051	1	FAN GUARD	
26	88201070	6	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5	
27	80973025	6	WHIZ-LOK BOLT, 3/8-16X1	
28	80471059	1	FILLER PANEL	
29	88711253	1	SQUARE HD PIPE PLUG, 1/2	
30	88711380	1	REDUCING BUSHING, 1/4X1/8	
31	80374109	1	RADIATOR CAP	



ENGINE & ATTACHING PARTS

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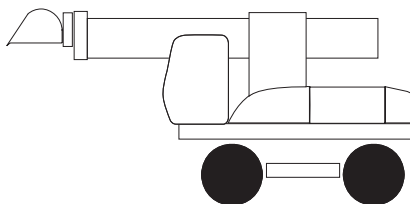


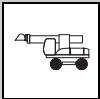


ENGINE & ATTACHING PARTS

SECTION 5

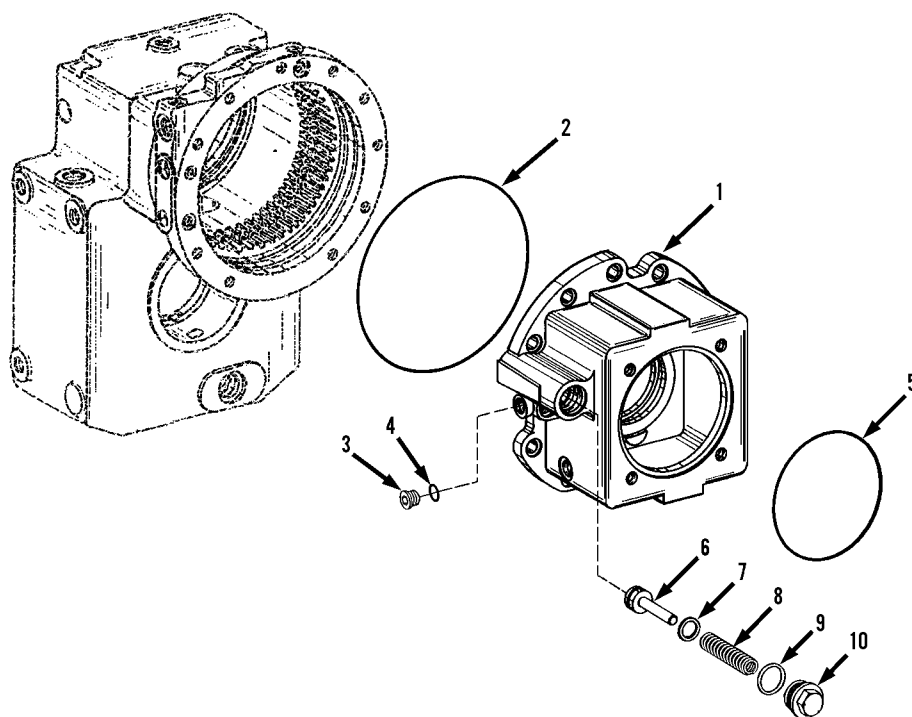
DRIVE TRAIN





DRIVE TRAIN

Figure 5-1 Transmission - Input Housing



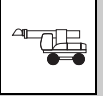
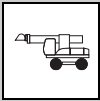


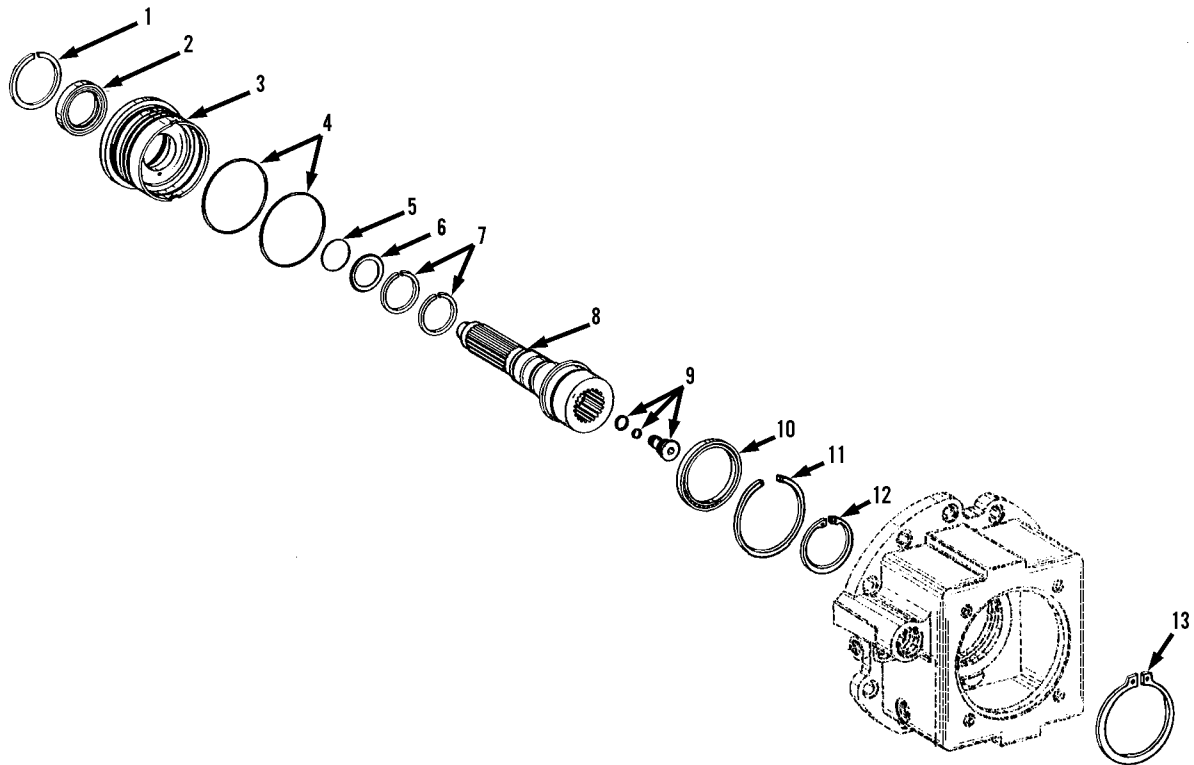
Figure 5-1 Transmission - Input Housing

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



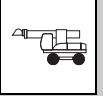
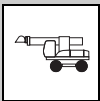


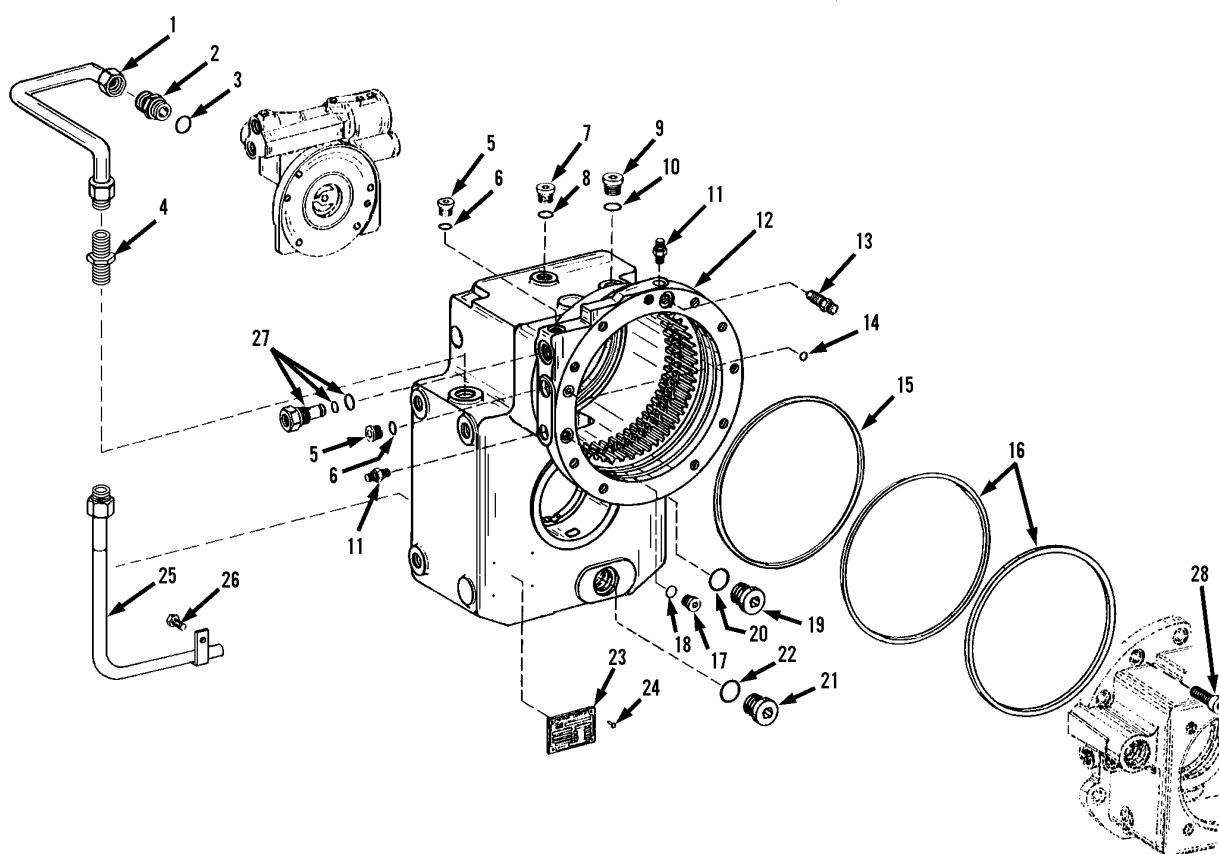
Figure 5-2 Transmission - Input

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



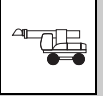
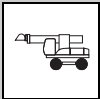


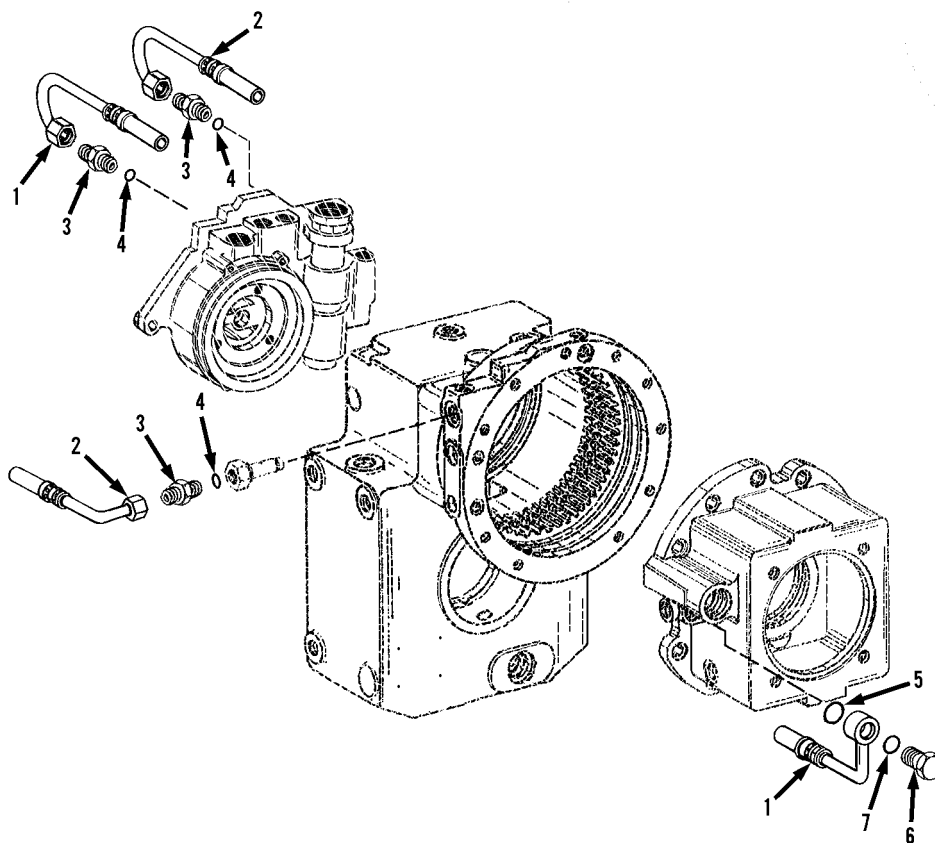
Figure 5-3 Transmission - Housing

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	2	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



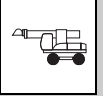
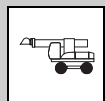


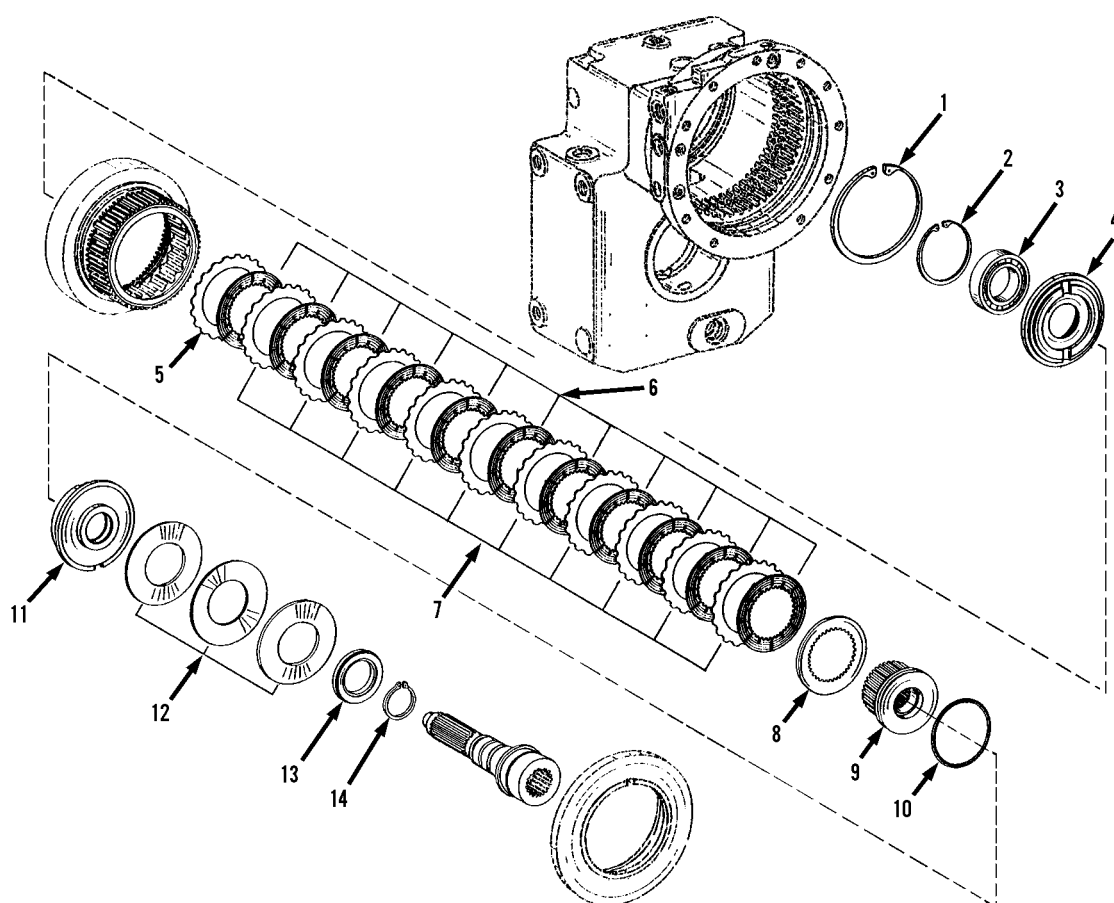
Figure 5-4 Transmission - Oil Pipe

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	



DRIVE TRAIN

Figure 5-5 Transmission - Coupling



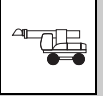
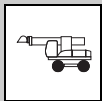


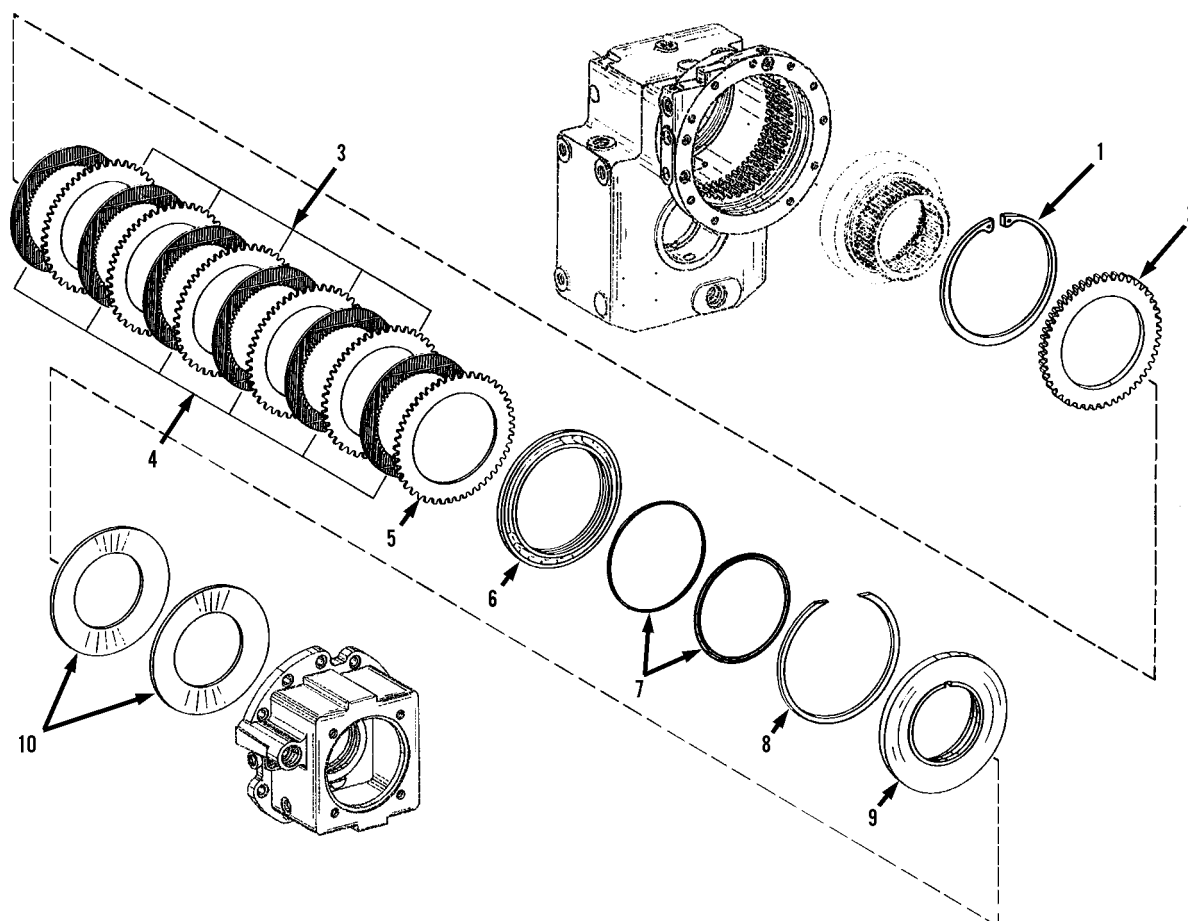
Figure 5-5 Transmission - Coupling

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	



DRIVE TRAIN

Figure 5-6 Transmission - Disc Brake



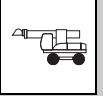
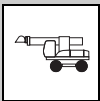


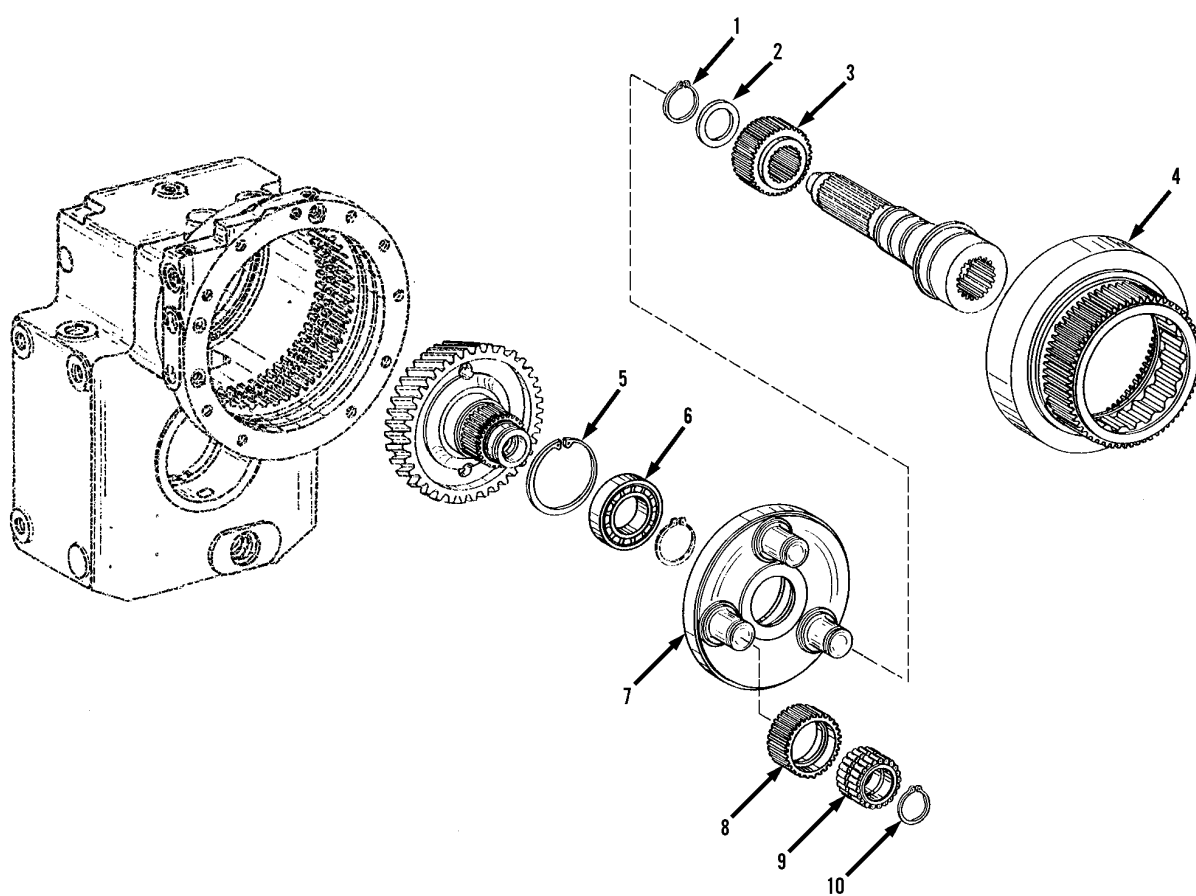
Figure 5-6 Transmission - Disc Brake

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	2	GASKET	
8	80304365	1	SNAP RING	
9	80304366	1	PISTON	
10	80304367	1	CUP SPRING	



DRIVE TRAIN

Figure 5-7 Transmission - Planetary Drive



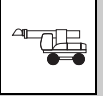
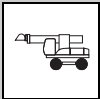


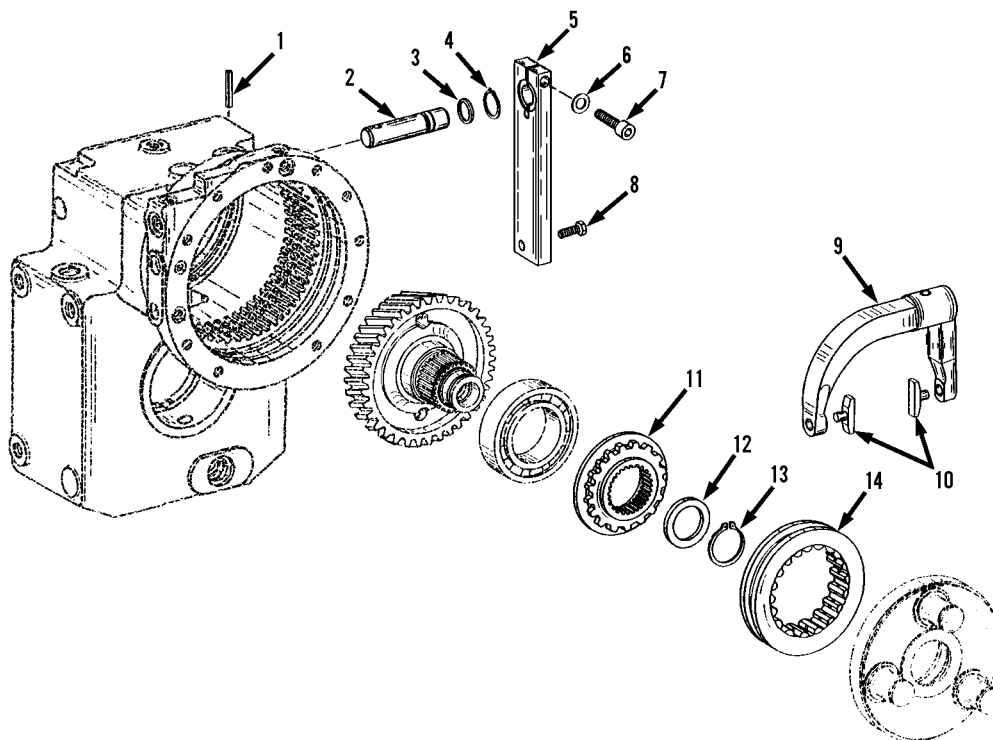
Figure 5-7 Transmission - Planetary Drive

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



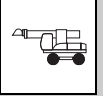
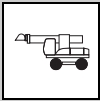


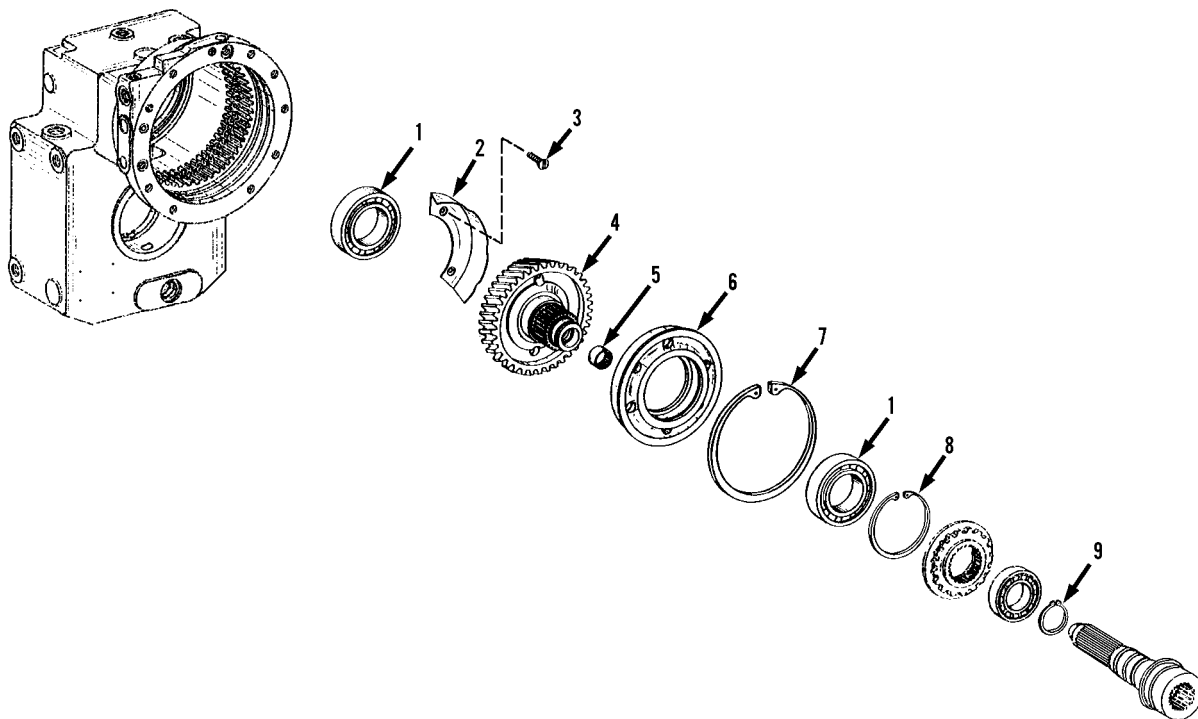
Figure 5-8 Transmission - Disconnection

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



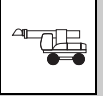
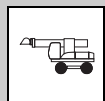


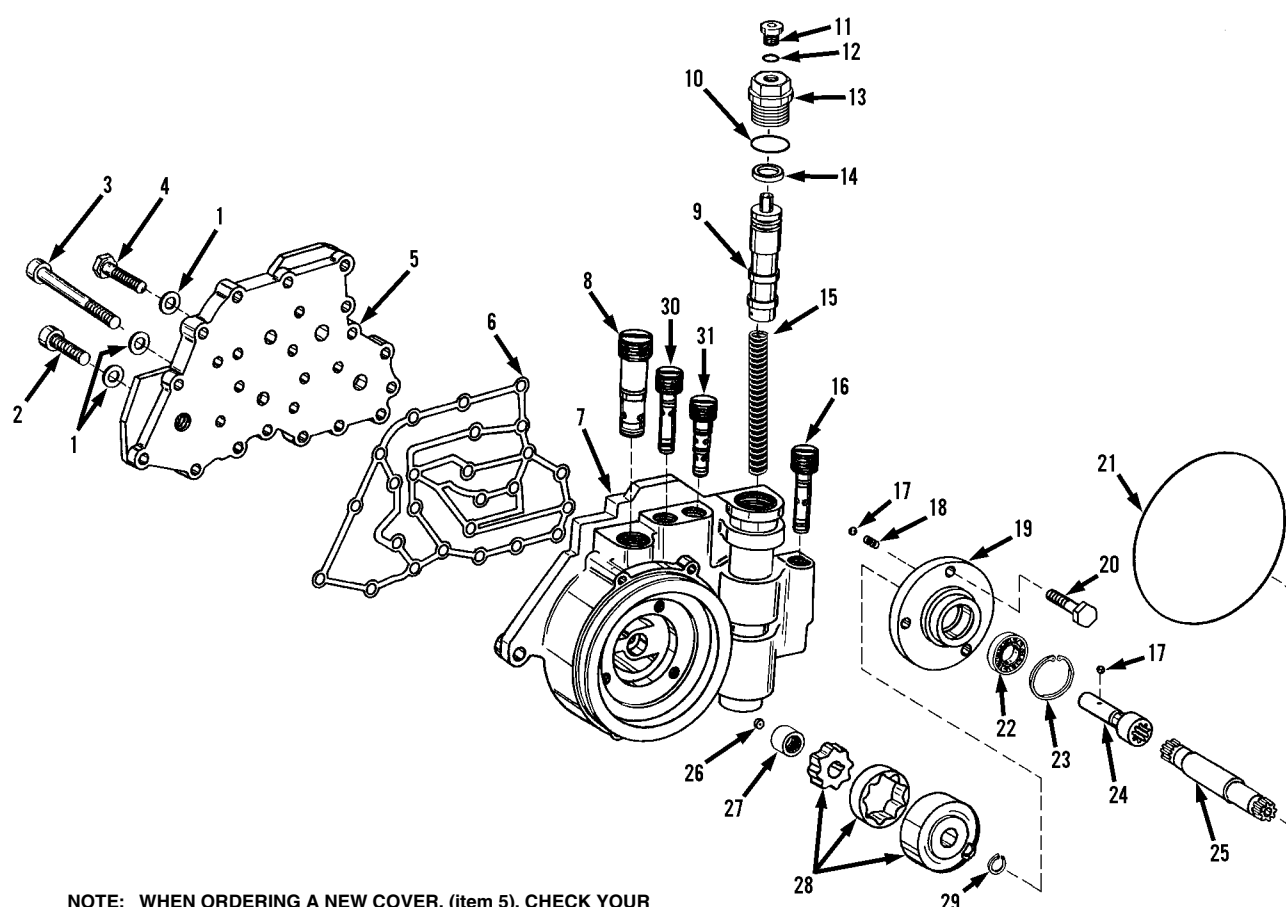
Figure 5-9 Transmission - Spurred Gear Drive

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



NOTE: WHEN ORDERING A NEW COVER, (item 5), CHECK YOUR COVER IDENTIFICATION NUMBER; IF YOUR NUMBER ENDS IN #063, ORDER COVER, 80304420, w/GASKET, 80304421. IF YOUR COVER ID NO. ENDS IN #091, ORDER COVER, 80304476, w/GASKET, 80304477.

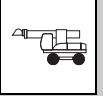
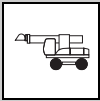


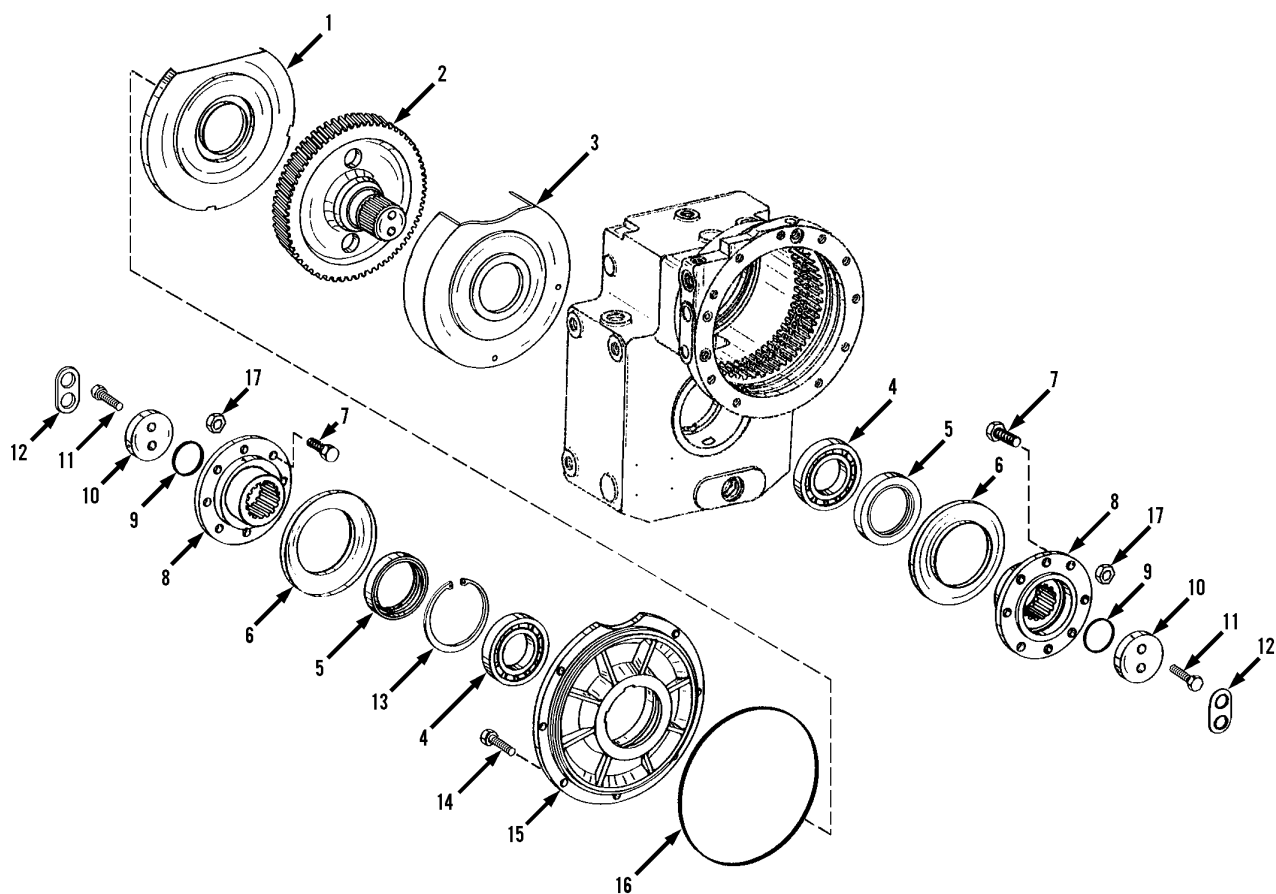
Figure 5-10 Transmission - Shift Sensor

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 on illustration)	
	80304476	1	COVER	
6	80304421	1	GASKET, (see note on 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	



DRIVE TRAIN

Figure 5-11 Transmission - Output



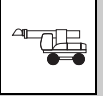
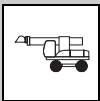


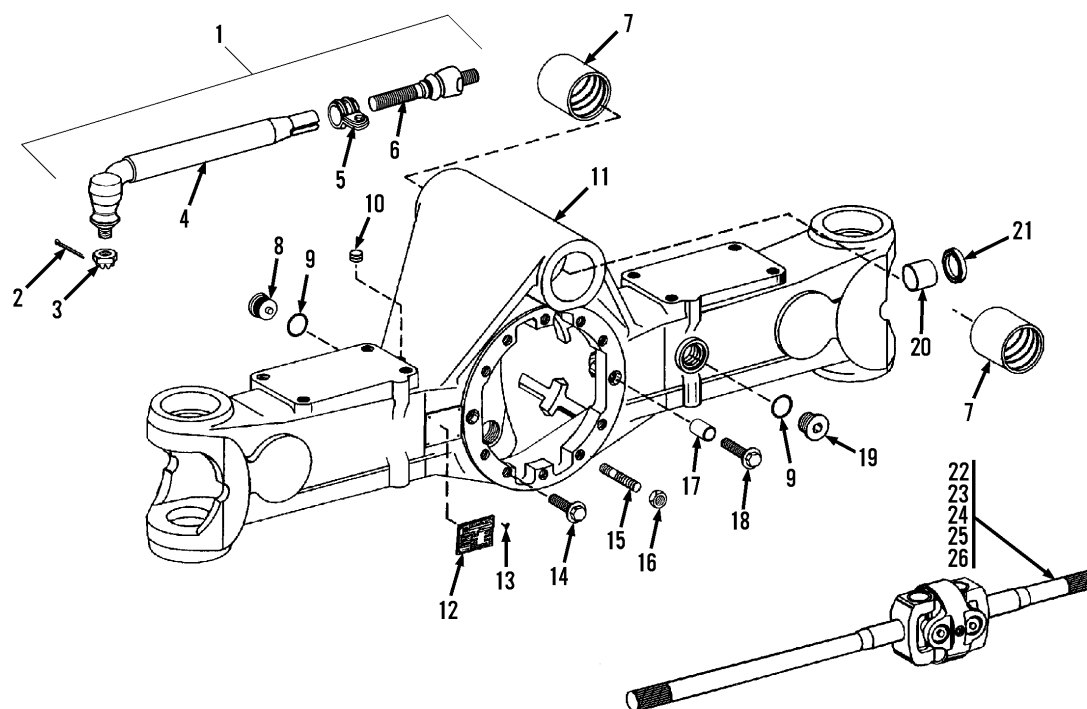
Figure 5-11 Transmission - Output

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 NUT, M10, (see Figure 1-1 for details), (item 43)	



DRIVE TRAIN

Figure 5-12 Steer Axle - Axle Housing



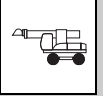
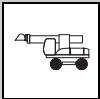


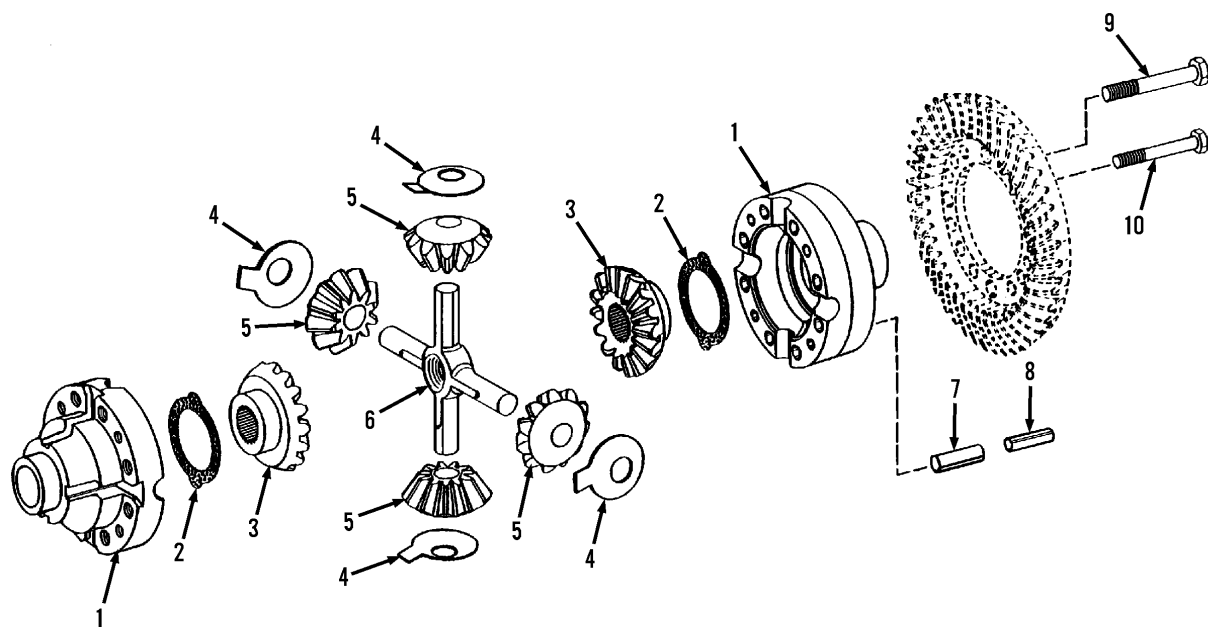
Figure 5-12 Steer Axle - Axle Housing

Item	Part Number	Qty.	Description	Rev.
1	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, (see Figure 5-15 for details)	
		Ref	GEARBOX & BRAKE, (see Figure 5-16 for details)	
		Ref	STEERING GEAR, (see Figure 5-17 for details)	
	80304004	1	AXLE HOUSING, (includes all items)	
	80434075	1	TIE ROD, R.H.	
	80434073	1	TIE ROD, L.H.	
	80304007	2	COTTER PIN	
	80304008	2	CASTLE NUT	
	80434076	1	BALL JOINT, R.H.	
	80434074	1	BALL JOINT, L.H.	
	80304011	2	CLAMPING CLIP	
	80304012	2	JOINT	
	80304013	2	BEARING	
	80304014	1	PLUG, (includes item 9)	
	80304015	3	O-RING	
	80304016	1	PLUG	
	80434069	1	AXLE HOUSING	
	80304018	1	TYPE PLATE	
	80304019	4	GROOVED STUD	
	80304020	7	LOCKING SCREW	
	80304021	3	STUD	
	80304022	3	LOCKING NUT	
	80304023	2	BUSHING	
	80304024	2	LOCKING SCREW	
	80304025	2	PLUG, (includes item 9)	
	80304026	2	BUSHING	
	80304027	2	SHAFT SEAL	
	80434070	2	UNIVERSAL SHAFT, (includes items 23 thru 26)	
	80434071	2	CENTRAL PIECE	
	80304030	4	JOINT CROSS	
	80304031	2	SHORT FORK SHAFT	
	80434072	2	LONG FORK SHAFT	



DRIVE TRAIN

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



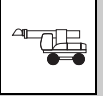
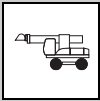


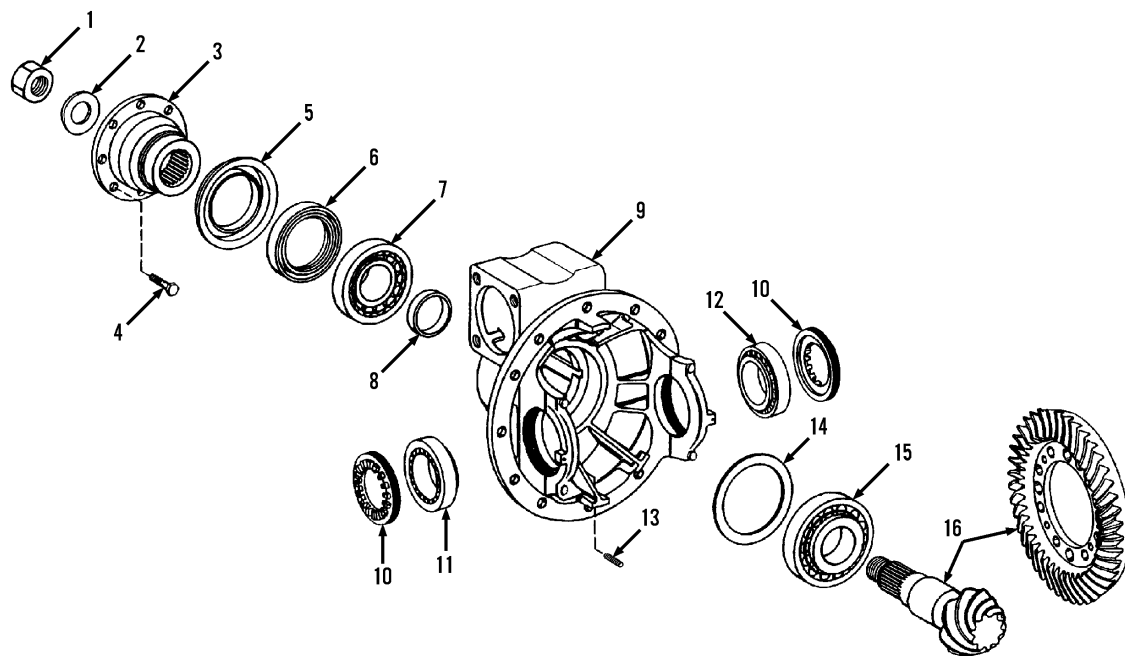
Figure 5-13 Steer Axle - Differential Spider, Cage & Nest

Item	Part Number	Qty.	Description	Rev.
	80304277	1	DIFFERENTIAL SPIDER, CAGE & NEST, (includes all items)	
1	80304034	1	DIFFERENTIAL CASE	
2	80304035	2	THRUST WASHER	
3	80304036	2	AXLE BEVEL GEAR	
4	80304037	4	THRUST WASHER	
5	80304278	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



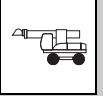
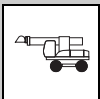


Figure 5-14 Steer Axle - Differential Carrier

Item	Part Number	Qty.	Description	Rev.
	80434068	1	DIFFERENTIAL CARRIER, (includes all items)	
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	
	80304104	AR	RING, 16.86mm	
	80304107	AR	RING, 16.98mm	
	80304108	AR	RING, 17.04mm	
	80304110	AR	RING, 16.56mm	
	80304111	AR	RING, 16.62mm	
	80304112	AR	RING, 16.64mm	
	80304113	AR	RING, 16.68mm	
	80434067	AR	RING, 16.72mm	
	80304115	AR	RING, 16.74mm	
	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	
	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	



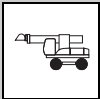
DRIVE TRAIN

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

Item	Part Number	Qty.	Description	Rev.
8	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	80434006	1	BEVEL GEAR SET	

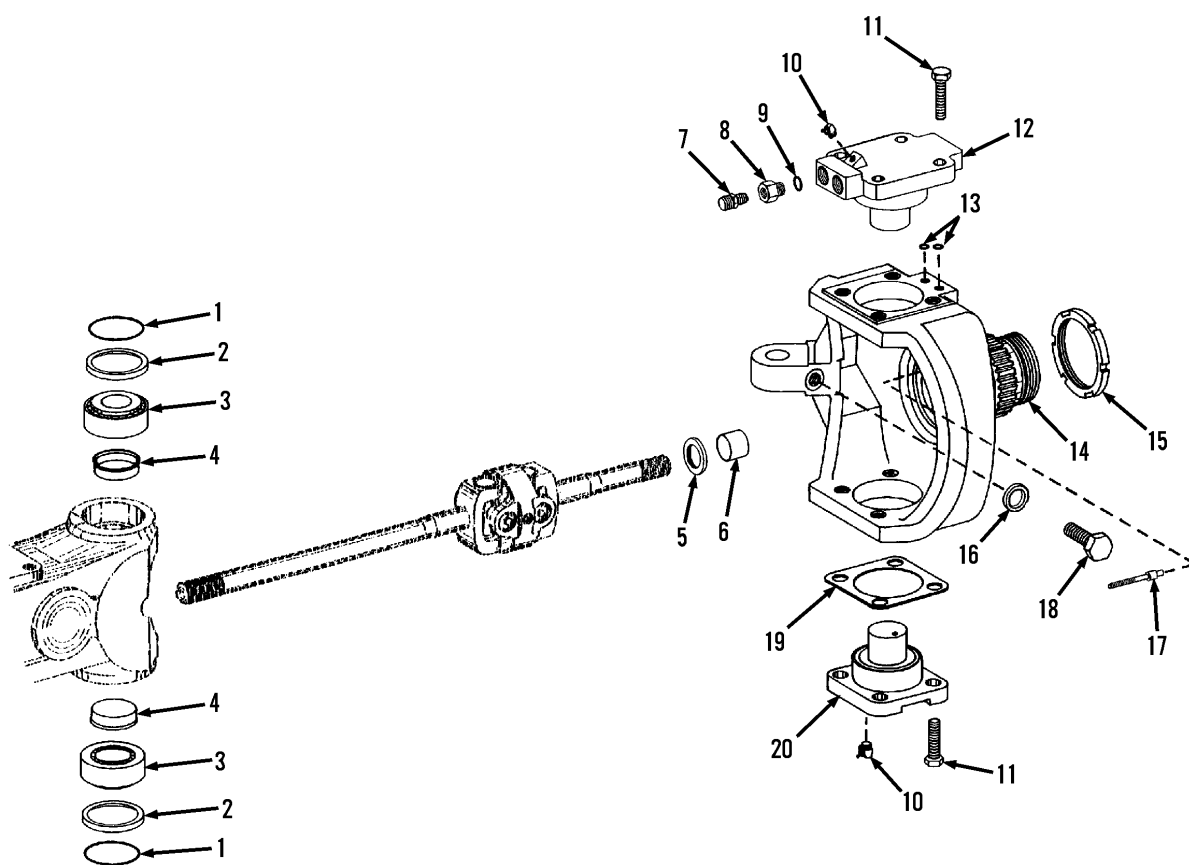
Figure 5-14 Steer Axle - Differential Carrier (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-15 Steer Axle - Wheel End



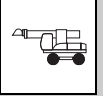
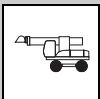


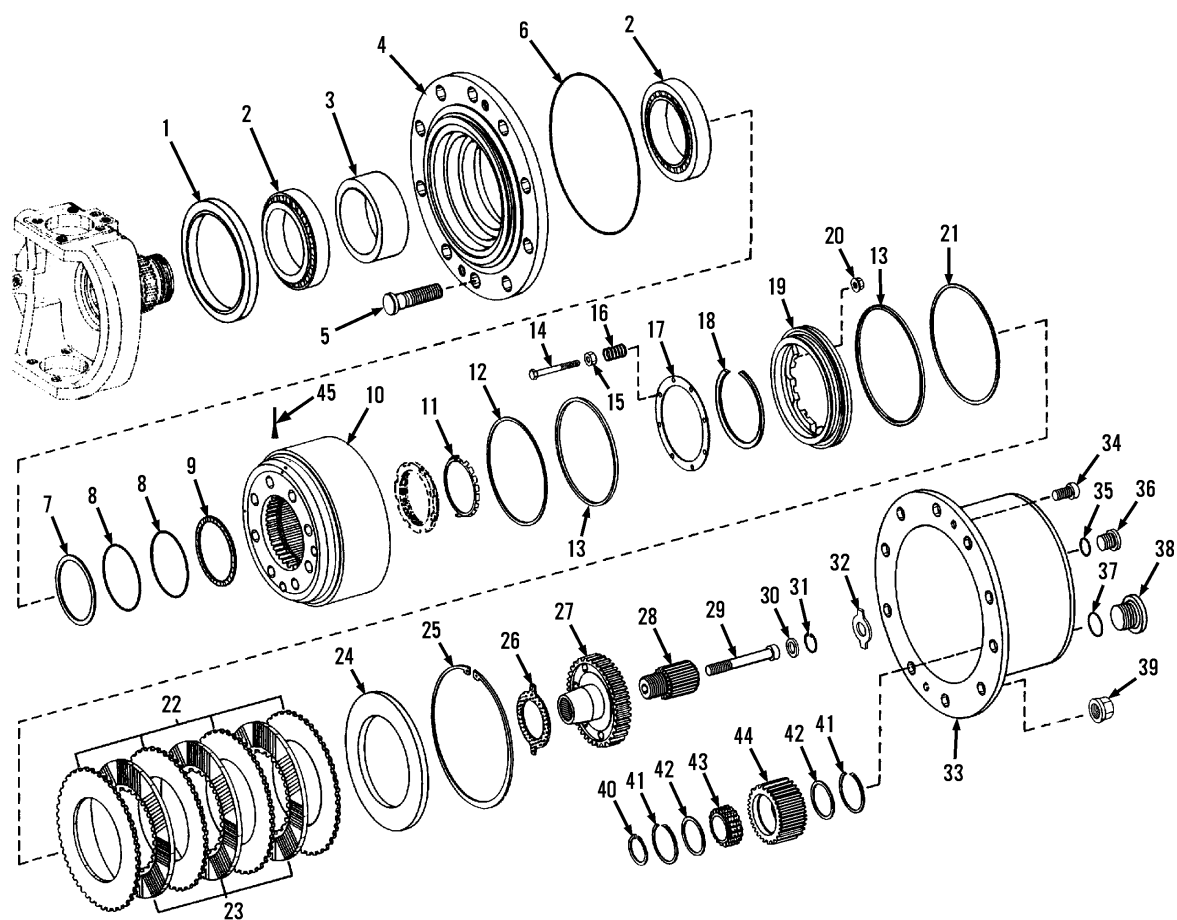
Figure 5-15 Steer Axle - Wheel End

Item	Part Number	Qty.	Description	Rev.
	80434085	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	80304027	2	SHAFT SEAL	
6	80304050	2	BUSHING	
7	80304051	2	VENT VALVE	
8	80304283	2	SCREW NECK	
9	80304053	2	O-RING	
10	80434084	4	NIPPLE	
11	80434083	8	HEX HD CAPSCREW	
12	80304056	2	BEARING PIN	
13	80304057	4	O-RING	
14	80434080	1	JOINT HOUSING, L.H., (includes item 15)	
	80434081	1	JOINT HOUSING, R.H., (includes item 15)	
15	80304282	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	80304283	1	PLUG	
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



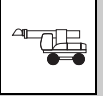
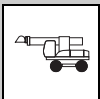


Figure 5-16 Steer Axle - Gearbox & Brake

Item	Part Number	Qty.	Description	Rev.
	80434086	2	GEARBOX & BRAKE, (includes all items except 5, 28, 29, 30, 31, 34 & 39)	
1	80304173	2	SHAFT SEAL	
2	80304174	4	ROLLER BEARING	
3	80304058	AR	BUSHING, 26.38mm	
	80304059	AR	BUSHING, 26.41mm	
	80304060	AR	BUSHING, 26.44mm	
	80304061	AR	BUSHING, 26.47mm	
	80304062	AR	BUSHING, 26.50mm	
	80304179	AR	BUSHING, 26.80mm	
	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	80304268	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	CAPSCREW	
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	
	80304221	AR	THRUST WASHER, 2.5mm	



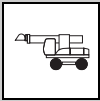
DRIVE TRAIN

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

Item	Part Number	Qty.	Description	Rev.
32	80304222	AR	THRUST WASHER, 2.7mm	
	80304223	AR	THRUST WASHER, 3.0mm	
33	80304057	2	PLANETARY CARRIER	
34	80304225	4	CAPSCREW	
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	
45	80304267	4	PLUG	

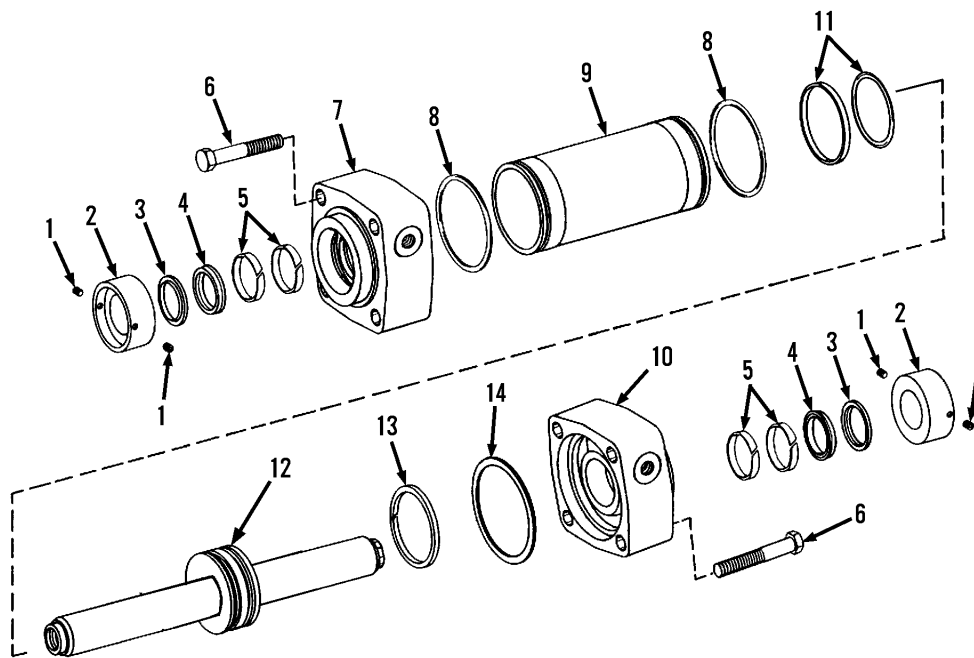
Figure 5-16 Steer Axle - Gearbox & Brake (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-17 Steer Axle - Steering Gear



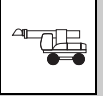
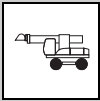


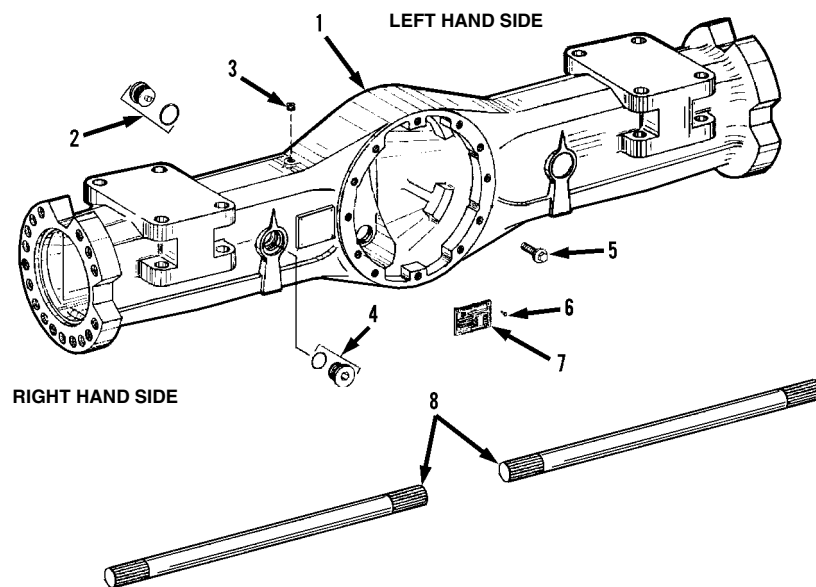
Figure 5-17 Steer Axle - Steering Gear

Item	Part Number	Qty.	Description	Rev.
	80434077	1	STEERING GEAR, (includes all items)	
1	80304233	4	SET SCREW	
2	80434079	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	80304258	1	GUIDE	
11	80304243	1	GASKET	
12	80434078	1	PISTON ROD	
13	80304248	1	GUIDE RING	
14	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	



DRIVE TRAIN

Figure 5-18 Drive Axle - Axle Housing



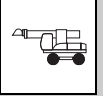
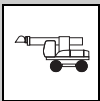


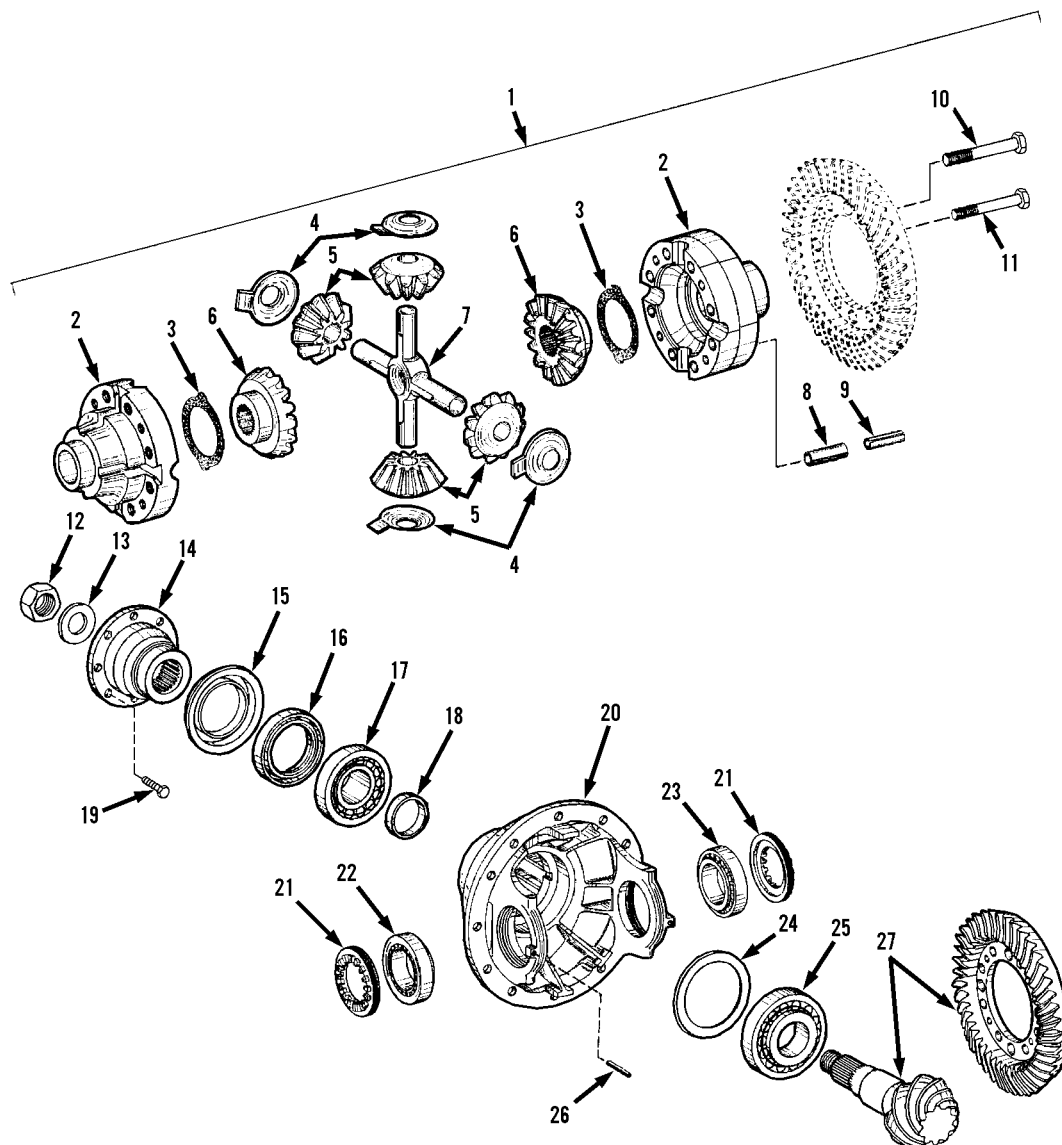
Figure 5-18 Drive Axle - Axle Housing

Item	Part Number	Qty.	Description	Rev.
	80433034	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	80434063	1	REAR AXLE HOUSING ASSY	
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	80434064	2	AXLESHAFT	



DRIVE TRAIN

Figure 5-19 Drive Axle - Differential



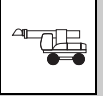
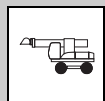


Figure 5-19 Drive Axle - Differential

Item	Part Number	Qty.	Description	Rev.
	80434065	1	DIFFERENTIAL, (includes items 12 thru 27)	
1	80304277	1	DIFFERENTIAL SPIDER, CAGE & NEST, (includes items 2 thru 11)	
2	80304034	1	DIFFERENTIAL CARRIER NEST	
3	80304035	2	THRUST WASHER	
4	80304037	4	THRUST WASHER	
5	80304278	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	80304082	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)	
	80304099	AR	RING, (17.10mm thick)	
	80304100	AR	RING, (17.20mm thick)	
	80304101	AR	RING, (17.30mm thick)	
	80304102	AR	RING, (17.40mm 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)	
	80304110	AR	RING, (16.56mm thick)	
	80304111	AR	RING, (16.62mm thick)	
	80304112	AR	RING, (16.64mm thick)	
	80304113	AR	RING, (16.68mm thick)	
	80434067	AR	RING, (16.72mm thick)	
	80304115	AR	RING, (16.74mm thick)	
	80304117	AR	RING, (16.76mm thick)	
	80304118	AR	RING, (16.78mm thick)	
	80304119	AR	RING, (16.82mm thick)	
	80304120	AR	RING, (16.84mm thick)	
	80304121	AR	RING, (16.88mm thick)	
	80304122	AR	RING, (16.90mm thick)	



DRIVE TRAIN

Figure 5-19 Drive Axle - Differential (Continued)

Item	Part Number	Qty.	Description	Rev.
18	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)	
	80304168	1	WASHER, (1.75mm thick)	
	80304169	1	WASHER, (1.85mm thick)	
25	80304047	1	ROLLER BEARING	
26	80304142	2	SLOTTED PIN	

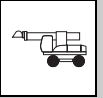
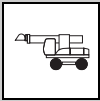


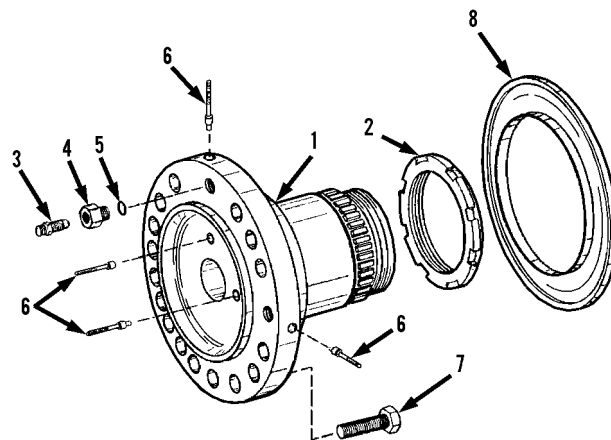
Figure 5-19 Drive Axle - Differential (Continued)

Item	Part Number	Qty.	Description	Rev.
27	80434066	1	RING GEAR & PINION SET	



DRIVE TRAIN

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



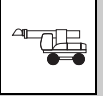
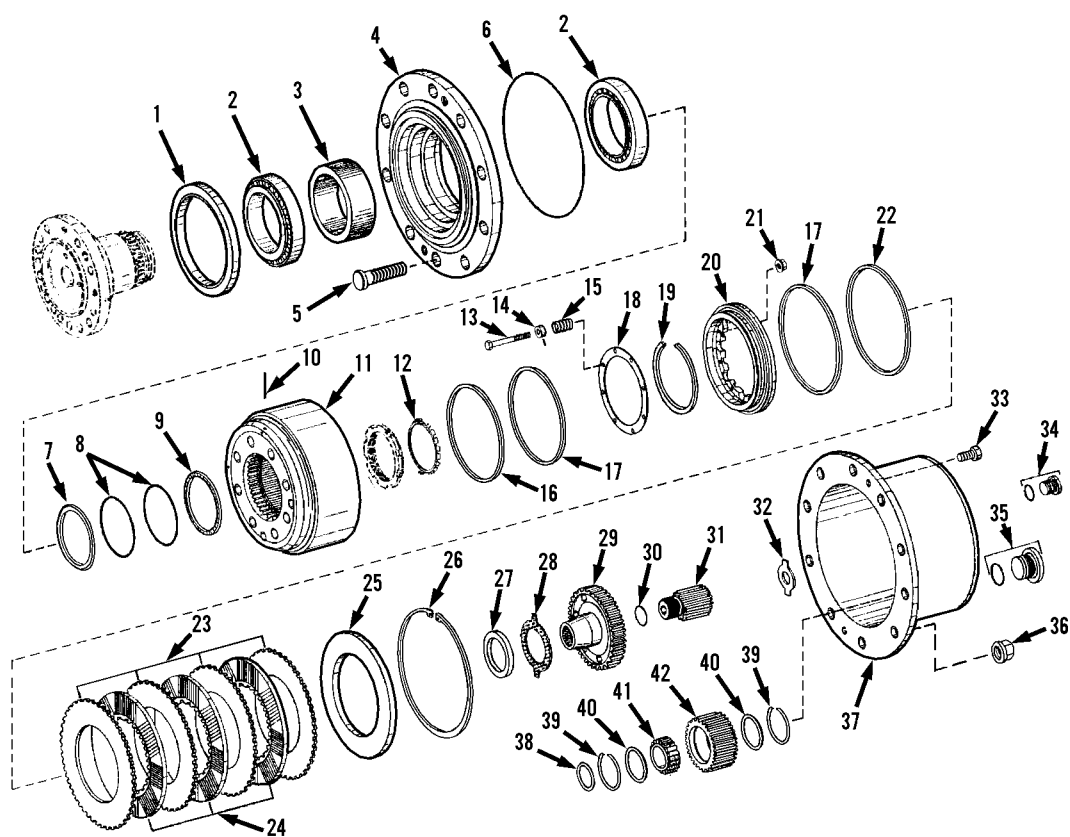


Figure 5-20 Drive Axle - Hub Carrier & Wheel End

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	



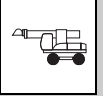
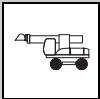


Figure 5-21 Drive Axle - Gearbox & Brake

Item	Part Number	Qty.	Description	Rev.
	80304265	1	DRIVE AXLE GEARBOX & BRAKE, (includes all items except 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	80304179	AR	BUSHING, (26.80mm 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)	
	80434058	AR	BUSHING, (26.38mm thick)	
	80434059	AR	BUSHING, (26.41mm thick)	
	80434060	AR	BUSHING, (26.44mm thick)	
	80434061	AR	BUSHING, (26.47mm thick)	
	80434062	AR	BUSHING, (26.50mm 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	O-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)	
	80304218	1	THRUST WASHER, (1.7mm thick)	



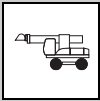
DRIVE TRAIN

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

Item	Part Number	Qty.	Description	Rev.
32	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	80434057	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	

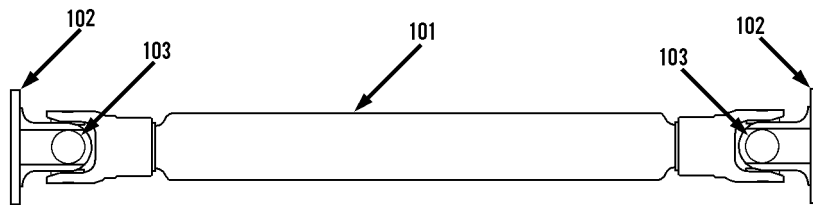
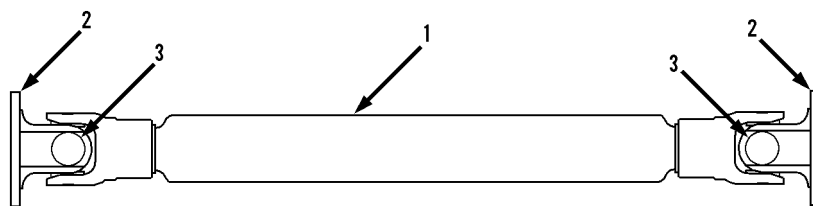
Figure 5-21 Drive Axle - Gearbox & Brake (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-22 Drive Shafts



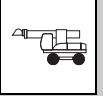
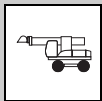


Figure 5-22 Drive Shafts

Item	Part Number	Qty.	Description	Rev.
1	80433079	1	FRONT DRIVESHAFT, (includes items 2 & 3)	
2	80304264	2	FLANGE	
3	80304263	2	UNIVERSAL JOINT KIT	
4 to 100	Not Used			
101	80303015	1	REAR DRIVESHAFT, (includes items 102 & 103)	
102	80304264	2	FLANGE	
103	80304263	2	UNIVERSAL JOINT KIT	

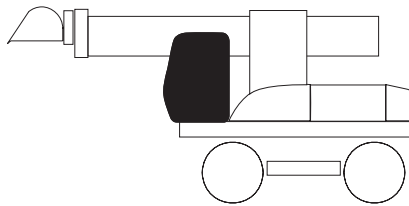


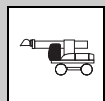
DRIVE TRAIN

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SECTION 6

CAB





CAB

Figure 6-1 Operators Cab

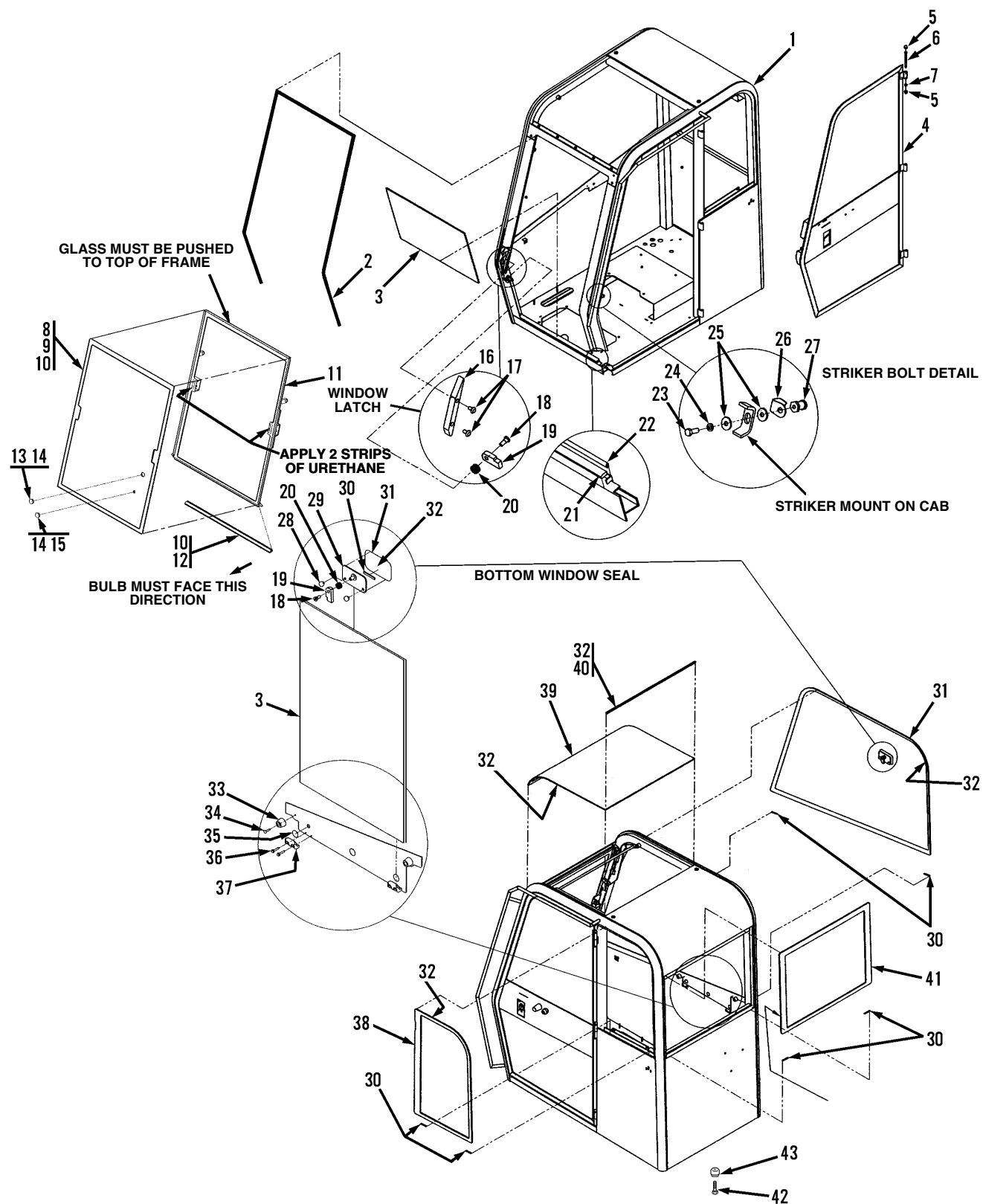
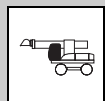




Figure 6-1 Operators Cab

Item	Part Number	Qty.	Description	Rev.
1	80363001	1	OPERATORS CAB, (includes items 1 thru 41 & all items on Figure 6-2)	
2	80364001	12.25'	SEAL	
3	80364002	1	LOWER FRONT WINDOW	
4		Ref	CAB DOOR, (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	
42	83201044	4	HEX HD CAPSCREW, 5/8-11X4, GR8, (lubricate & torque to 200-215 lb-ft)	
43	91203138	4	REBOUND WASHER	



CAB

Figure 6-2 Operators Cab

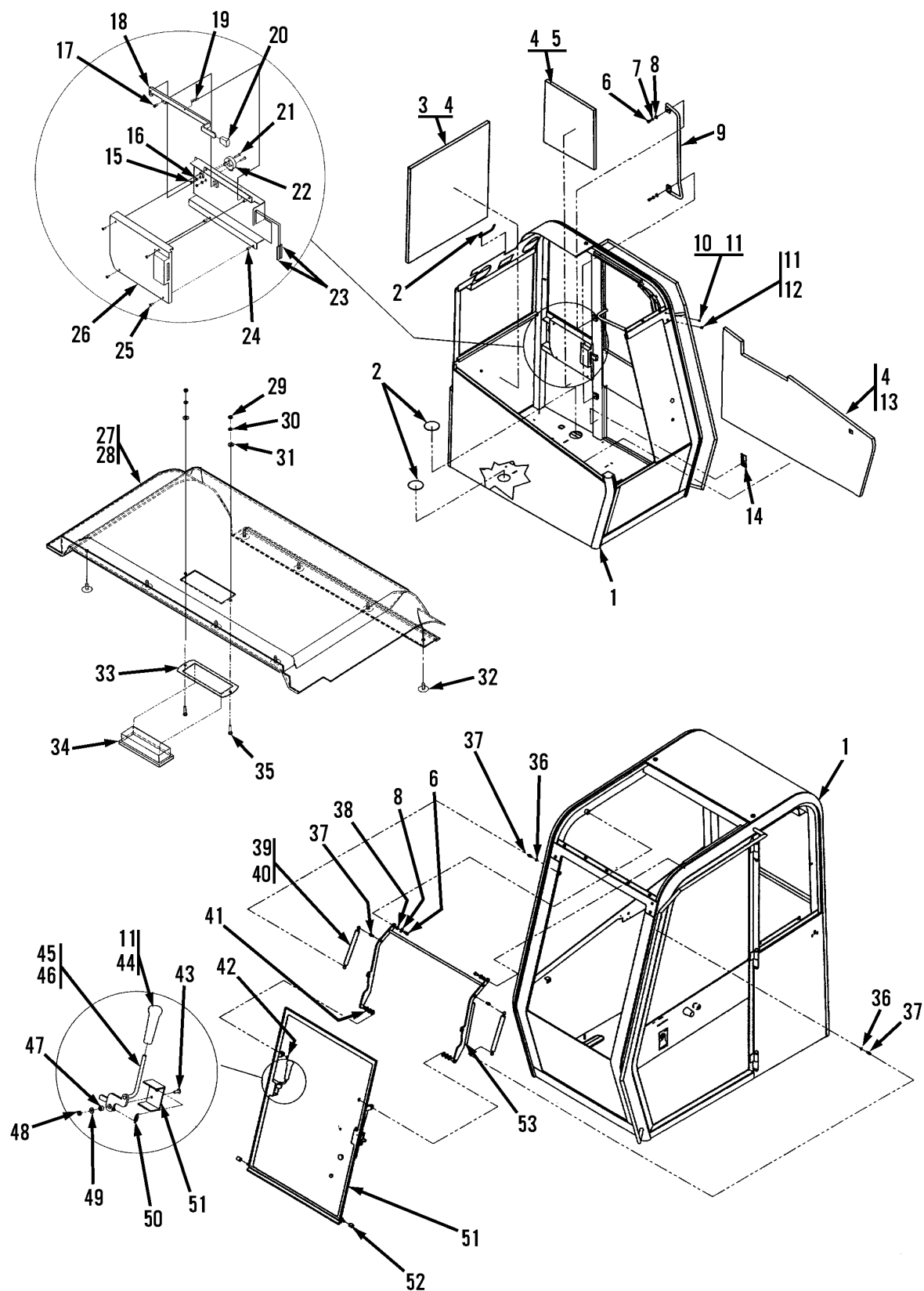
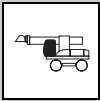




Figure 6-2 Operators Cab

Item	Part Number	Qty.	Description	Rev.
1	80363001	1	OPERATORS CAB, (includes all items on Figure 6-2 & designated items on Figure 6-1)	
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	



CAB

Figure 6-2 Operators Cab (Continued)

Item	Part Number	Qty.	Description	Rev.
49	80364063	2	FLAT WASHER	
50	80364064	2	SPRING	
51		Ref	FRONT WINDOW ASSY	
52	80264094	2	WINDOW ROLLER	
53	80364065	1	LINK WELDMENT	

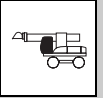
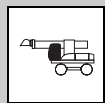


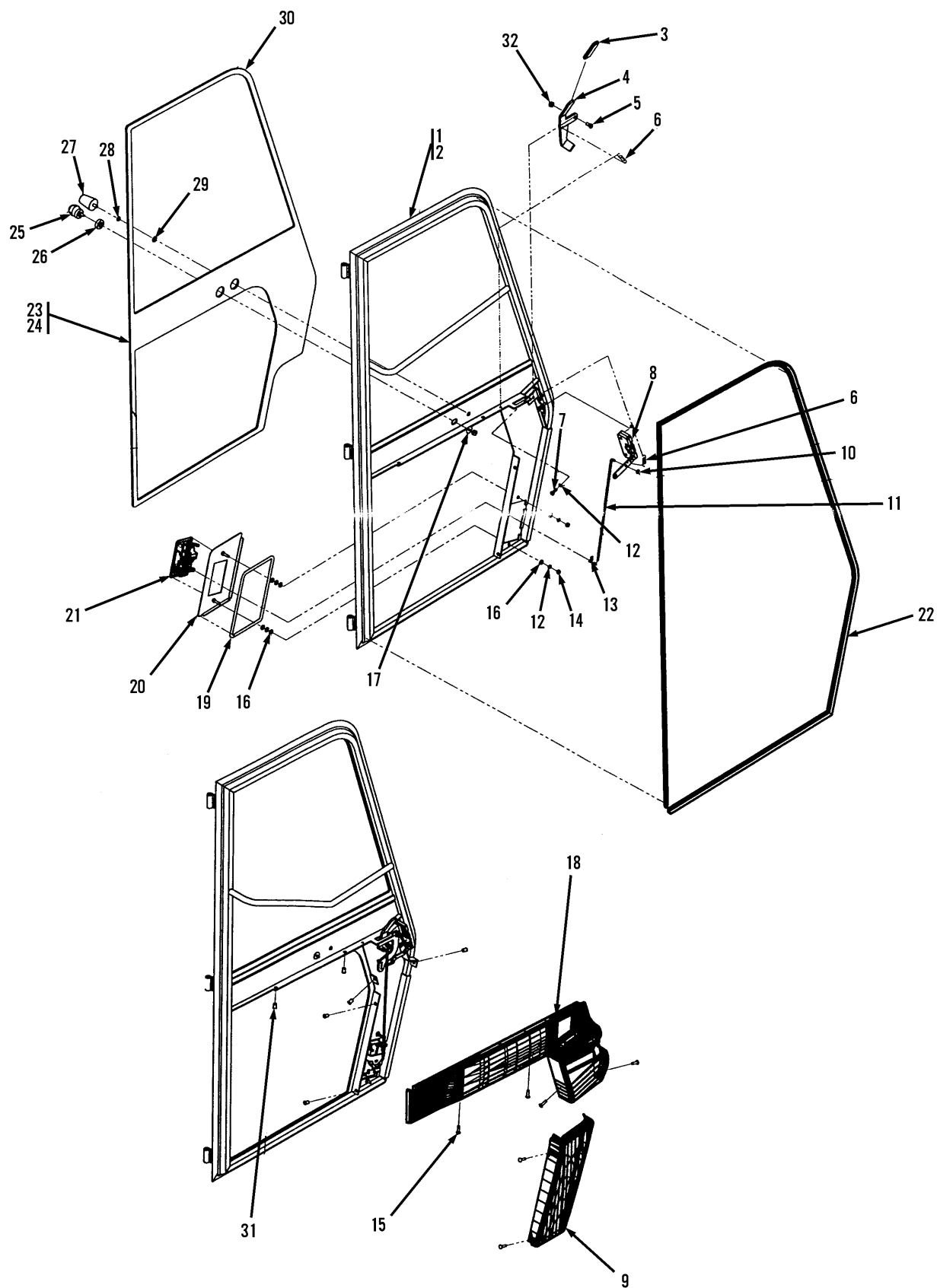
Figure 6-2 Operators Cab (Continued)

Item	Part Number	Qty.	Description	Rev.



CAB

Figure 6-3 Cab Door



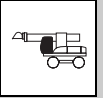
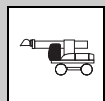


Figure 6-3 Cab Door

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

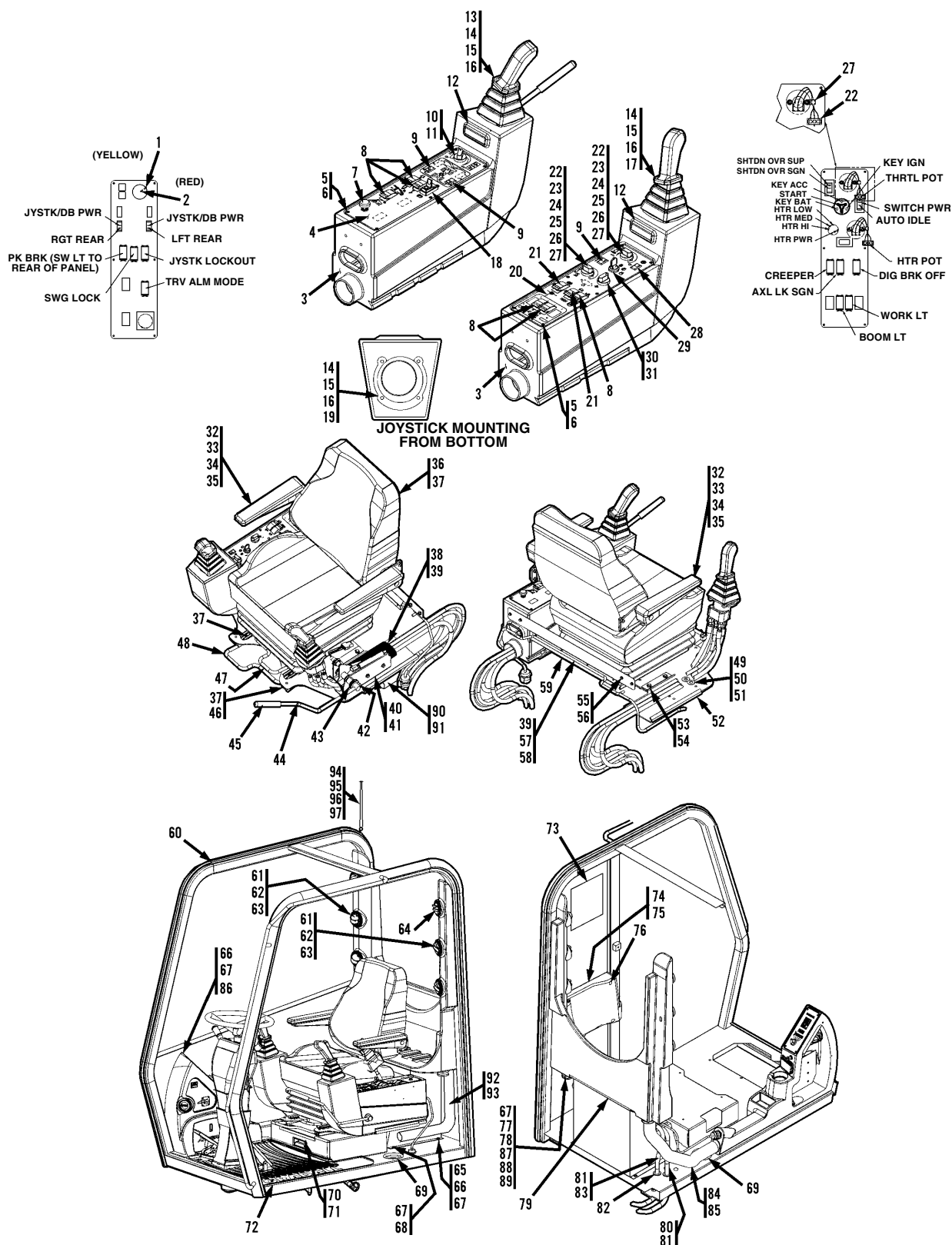
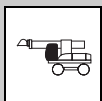




Figure 6-4 Cab Interior Components

Item	Part Number	Qty.	Description	Rev.
1	77163105	1	BULLET TERMINAL, FEMALE	
2	86983193	1	BULLET TERMINAL, MALE	
3	80363006	2	POD	
4	80463034	1	POD PANEL, L.H.	
5	80363034	12	TINNERMAN NUT	
6	80363033	12	FLAT HD SCREW	
7	80435028	1	WIPER/WASHER SWITCH	
8	91403304	6	CARLING SWITCH	
9	80363030	3	MINI-ROCKER SWITCH	
10	80964002	1	TILT SPEED RHEOSTAT	
11	80363029	1	KNOB	
12	80363107	2	POD LIGHT	
13		Ref	JOYSTICK ASSY, (see Figure 7-1 for details)	
14	88211042	8	SOCKET HD CAPSCREW, 1/4-20X1, GR8	
15	88551009	8	LOCKWASHER, 1/4	
16	88561002	8	FLAT WASHER, 1/4	
17		Ref	JOYSTICK ASSY, (see Figure 7-1 for details)	
18	80363132	1	PADDLE SWITCH	
19	80361043	2	TAPPED PLATE	
20	80463007	1	POD PANEL, R.H.	
21	91403320	2	CARLING SWITCH	
22	80365027	2	POTENTIOMETER, (8 ohms)	
23	88501608	4	HEX NUT, #6-32	
24	88241014	4	SOCKET FLAT HD CAPSCREW, #6-32X3/8	
25	88561103	4	FLAT WASHER, #6	
26	80363069	2	KNOB	
27	88691387	2	TUBE CLIP	
28	80463035	1	MINI-ROCKER SWITCH	
29	91033317	1	IGNITION SWITCH	
30	80964001	1	BLOWER SWITCH	
31	80363029	1	KNOB	
32	80361021	2	SEAT ARM MOUNT BRACKET	
33	88261024	4	BUTTON HD CAPSCREW, 5/16-18X1	
34	88551010	4	LOCKWASHER, 5/16	
35	88501005	4	HEX NUT, 5/16-18	
36		Ref	CAB SEAT, (see Figure 6-6 for details)	
37	88212223	12	SOCKET HD CAPSCREW, 5/16-18X1/2, GR8	
38	83953053	1	SLEEVE	
39	90027187	6	TY-RAP	
40		Ref	PILOT CUT-OFF ASSY, (see Figure 6-9 for details)	
41	91363018	4	WHIZ-LOK BOLT, 5/16-18X1	
42	88501108	1	HEX JAM NUT, 1/2-13	
43	85131075	2	GROMMET	
44	80363083	1	LEVER	
45	80363045	1	KNOB	
46	80363005	1	SLIDE RAIL KIT	
47	80363061	1	TOP SLIDE RELEASE LEVER	
48	80363062	1	BOTTOM SLIDE RELEASE LEVER	
49	88261024	2	BUTTON HD CAPSCREW, 5/16-18X1	



CAB

Figure 6-4 Cab Interior Components

Item	Part Number	Qty.	Description	Rev.
50	91023098	2	FENDER WASHER, 5/16	
51	77143006	2	WHIZ-LOK NUT, 5/16-18	
52	80361001	1	FORMED SEAT PLATE	
53	80361002	2	CLAMP ANGLE	
54	77143003	4	WHIZ-LOK BOLT, 5/16-18X5/8	
55	80263012	4	WHIZ-LOK BOLT, 1/4-20X1/2	
56	77143013	4	WHIZ-LOK NUT, 1/4-20	
57	80463003	1	CAB HARNESS	
58	86683122	4	TY-RAP	
59	80361003	1	SEAT HARNESS SUPPORT	
60		Ref	OPERATORS CAB, (see Figure 6-1 for details)	
61	88521304	2	HEX LOCKNUT, 1/4-20	
62	88561002	2	FLAT WASHER, 1/4	
63	91083533	2	FENDER WASHER, 11/32	
64	80363106	6	AIR DIFFUSER VENT	
65		Ref	CAB HEATER, (see Figure 6-7 for details)	
66	80263012	4	WHIZ-LOK BOLT, 1/4-20X1/2	
67	88561003	7	FLAT WASHER, 5/16	
68	88201006	1	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5	
69		AR	FLEX GUARD	
70	80363059	1	SEAT RISER DRAWER	
71	80363060	1	LATCH	
72	80363163	1	FLOOR MAT	
73	80463019	1	OPERATING DECAL	
74	80363105	1	INSIDE LATCH COVER	
75	88201005	3	HEX HD CAPSCREW, 1/4-20X1	
76	88201009	1	HEX HD CAPSCREW, 1/4-20X2	
77	80363193	1	PLENUM	
78	77133013	2	WHIZ-LOK NUT, 1/4-20	
79	90200755	AR	GASKA-TAPE	
80		AR	HEATER HOSE	
81	86671187	2	HOSE CLAMP	
82	86561279	2	GROMMET	
83		AR	HEATER HOSE, (red)	
84		3'	FLEXIBLE AIR DUCT	
85	90027187	2	TY-RAP	
86		Ref	CAB CONSOLE, (see Figure 6-5 for details)	
87	80364179	1	CARGO NET	
88	80364180	2	STUD	
89	80364181	10	SCREW	
90		3'	FLEXIBLE AIR DUCT	
91	90027187	3	TY-RAP	
92	80363229	1	LOUVER ASSY	
93	80361100	1	LOUVER BRACKET	
94	80263030	1	ANTENNA	
95	80363121	1	ANTENNA LEAD EXTENSION, 12"	
96	80363120	1	ANTENNA LEAD EXTENSION, 48"	
97	14404173	AR	CLEAR SILICONE	

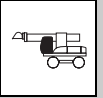


Figure 6-4 Cab Interior Components

Item	Part Number	Qty.	Description	Rev.

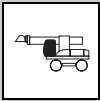
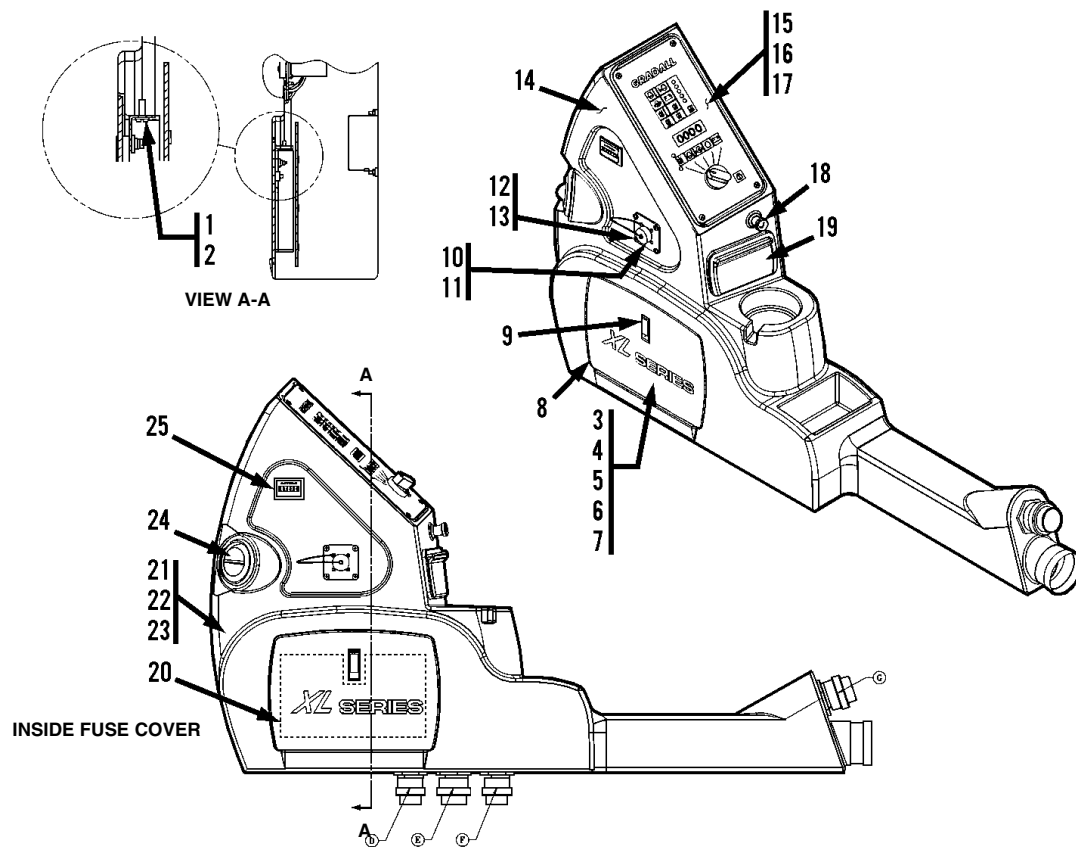


Figure 6-5 Cab Console



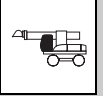


Figure 6-5 Cab Console

Item	Part Number	Qty.	Description	Rev.
1	80361020	1	LATCH RECIEVER	
2	88321030	2	SELF-TAPPING SCREW, #8-32	
3	80463005	1	PRINTED CIRCUIT BOARD	
4	88301090	6	ROUND HD MACHINE SCREW, #10-24X1/2	
5	80363185	6	NYLON WASHER	
6	88501612	6	HEX NUT, #10-24	
7	80383248	1	FLASHER	
8	80363039	1	CONSOLE DOOR	
9	80363066	1	LATCH	
10	88301023	4	ROUND HD MACHINE SCREW, #4-40X3/8	
11	88501604	4	HEX NUT, #4-40	
12	80461205	1	BRACKET	
13	80373157	4	PLASTITE SCREW, #8-32X3/8	
14	80463009	1	CONSOLE	
15	80463036	1	ELECTRONIC MONITORING UNIT	
16	80363033	4	FLAT HD PHILIPS SCREW, #10-1	
17	80363034	4	TINNERMAN NUT	
18	80363123	1	CIGARETTE LIGHTER	
19	77383891	1	ASH TRAY	
20	80463006	1	FUSE ID DECAL	
21	80363116	1	DUAL ALTERNATING ELECTRIC FLASHER	
22	88301070	2	ROUND HD MACHINE SCREW, #8-32X1/2	
23	88501610	2	HEX NUT, #8-32	
24	80963025	1	BALL LOUVER	
25	91143130	1	HOURLMETER	

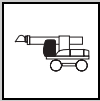
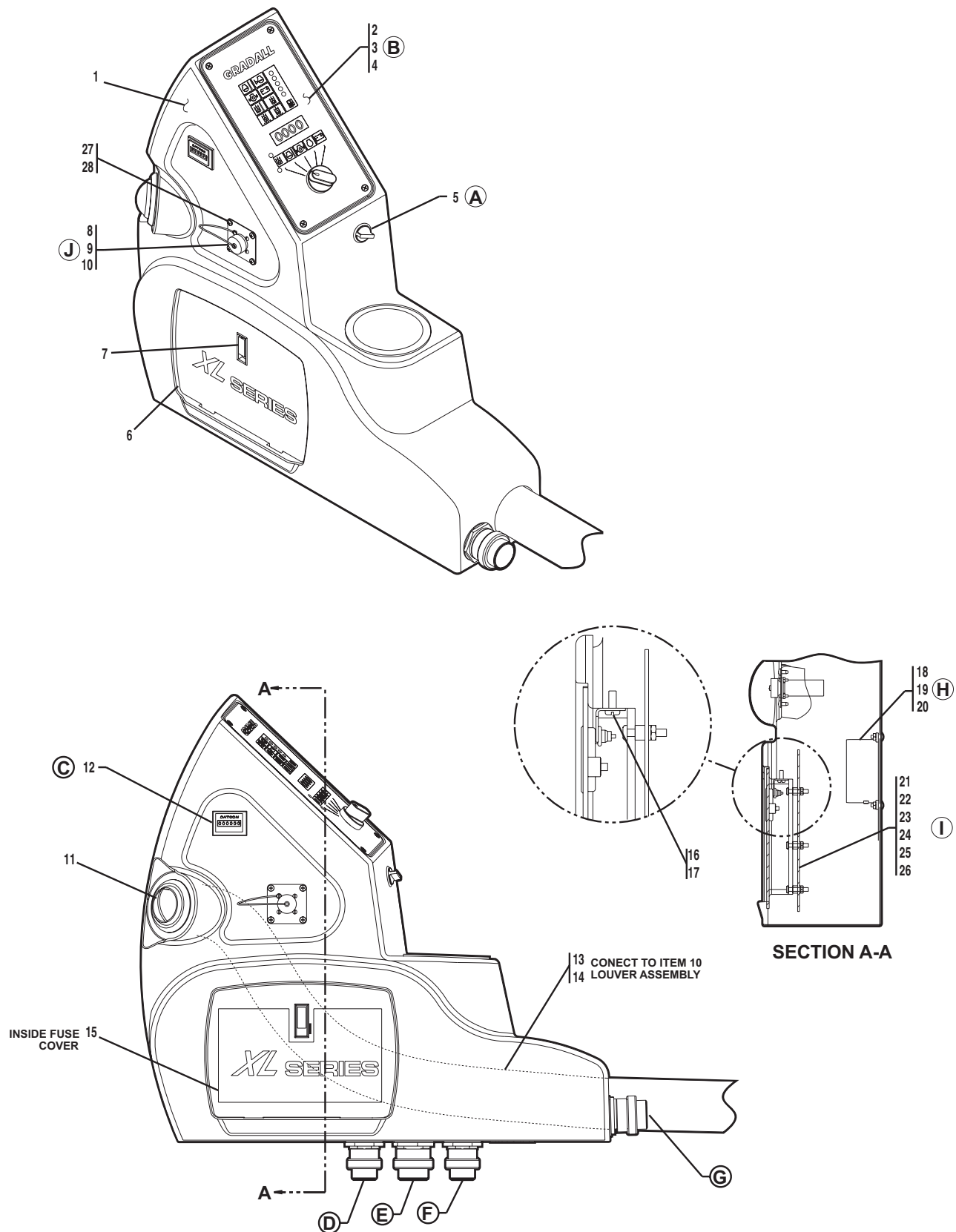


Figure 6-5 Cab Console



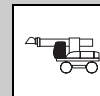
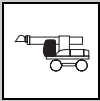


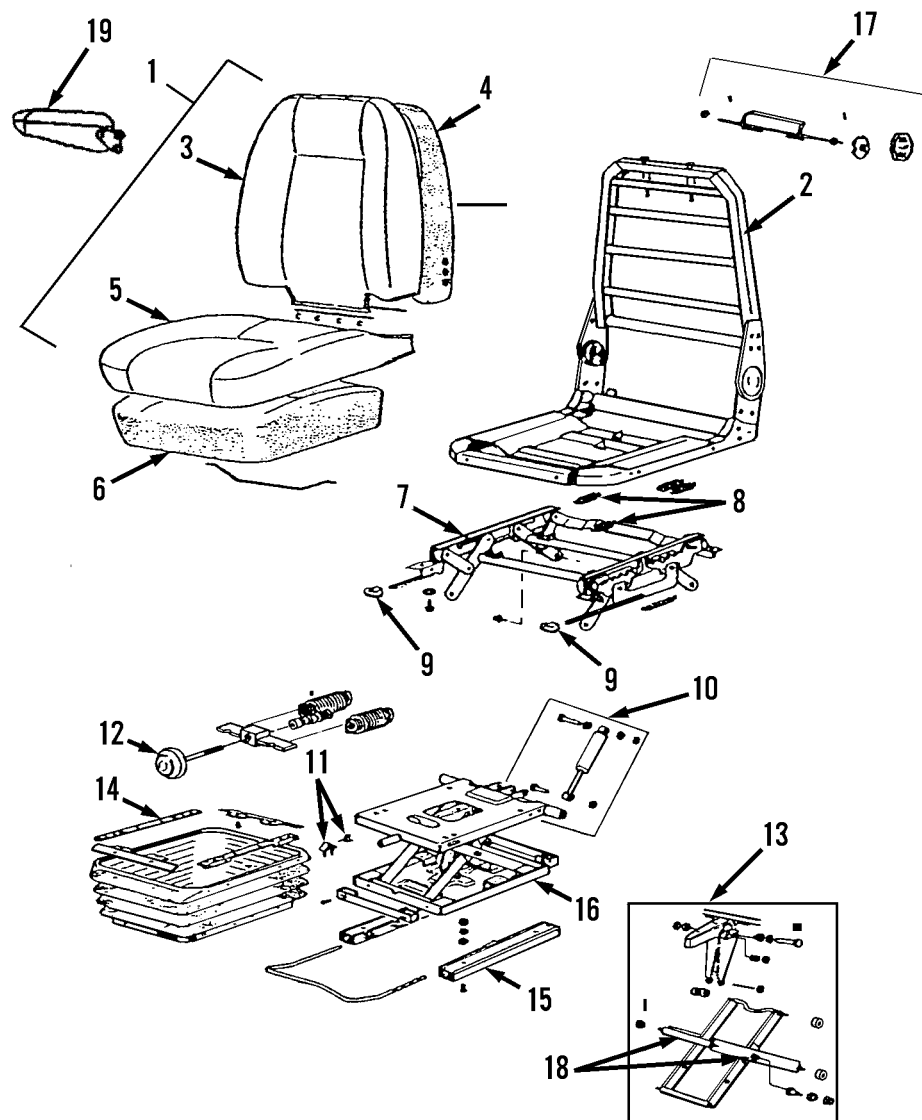
Figure 6-5 Cab Console

Item	Part Number	Qty.	Description	Rev.
	80465048	1	CAB CONSOLE ASSY, (includes all items, except item 25)	
1	80463084	1	CAB CONSOLE	
2	80483036	1	ELECTRONIC MONITORING UNIT	
3	80363033	4	FLAT HD PHILIPS SCREW, #10-24X1	
4	80363034	4	TINNERMAN NUT	
5	80363244	1	POWER SUPPLY, 12V	
6	80363039	1	CONSOLE DOOR	
7	80363066	1	LATCH	
8	88301023	4	ROUND HD MACHINE SCREW, #4-40X3/8	
9	88501604	4	HEX NUT, #4-40	
10	14403364	AR	LOCTITE, #242, BLUE	
11	80363229	1	LOUVER ASSY	
12	91143130	1	HOURLMETER	
13		70"	FLEXIBLE AIR DUCT	
14	90027187	1	TY-RAP	
15	80463006	1	FUSE IDENTIFICATION DECAL	
16	80361020	1	LATCH RECEIVER	
17	88321030	2	SELF-TAPPING SCREW, #10-24X1/2	
18	80363116	1	DUAL ALTERNATING ELECTRIC FLASHER	
19	88301070	2	ROUND HD MACHINE SCREW, #8-32X1/2	
20	88501610	2	HEX NUT, #8-32	
21		REF	PRINTED CIRCUIT BOARD, (see Figure 10-2 for details)	
22	88301095	6	ROUND HD MACHINE SCREW, #10-24X1	
23	88501612	6	HEX NUT, #10-24	
24	80363185	6	NYLON WASHER	
25	80383248	1	FLASHER	
26	80363242	6	NYLON STANDOFF, #10	
27	80461205	1	BRACKET	
28	80373187	4	PLASTIC SCREW, #8-32	



CAB

Figure 6-6 Cab Seat



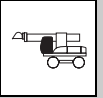


Figure 6-6 Cab Seat

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	80264023	1	FORE & AFT ADJUSTMENT KIT	
16	80364118	1	SUSPENSION ASSY KIT	
17	80364119	1	LUMBAR SUPPORT KIT	
18	80364120	1	PIVOT KIT	
19	80364197	1	ARMREST, (not illustrated)	
	80364175	1	ARMREST KIT	

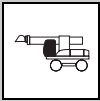


Figure 6-7 Cab Heater & Installation

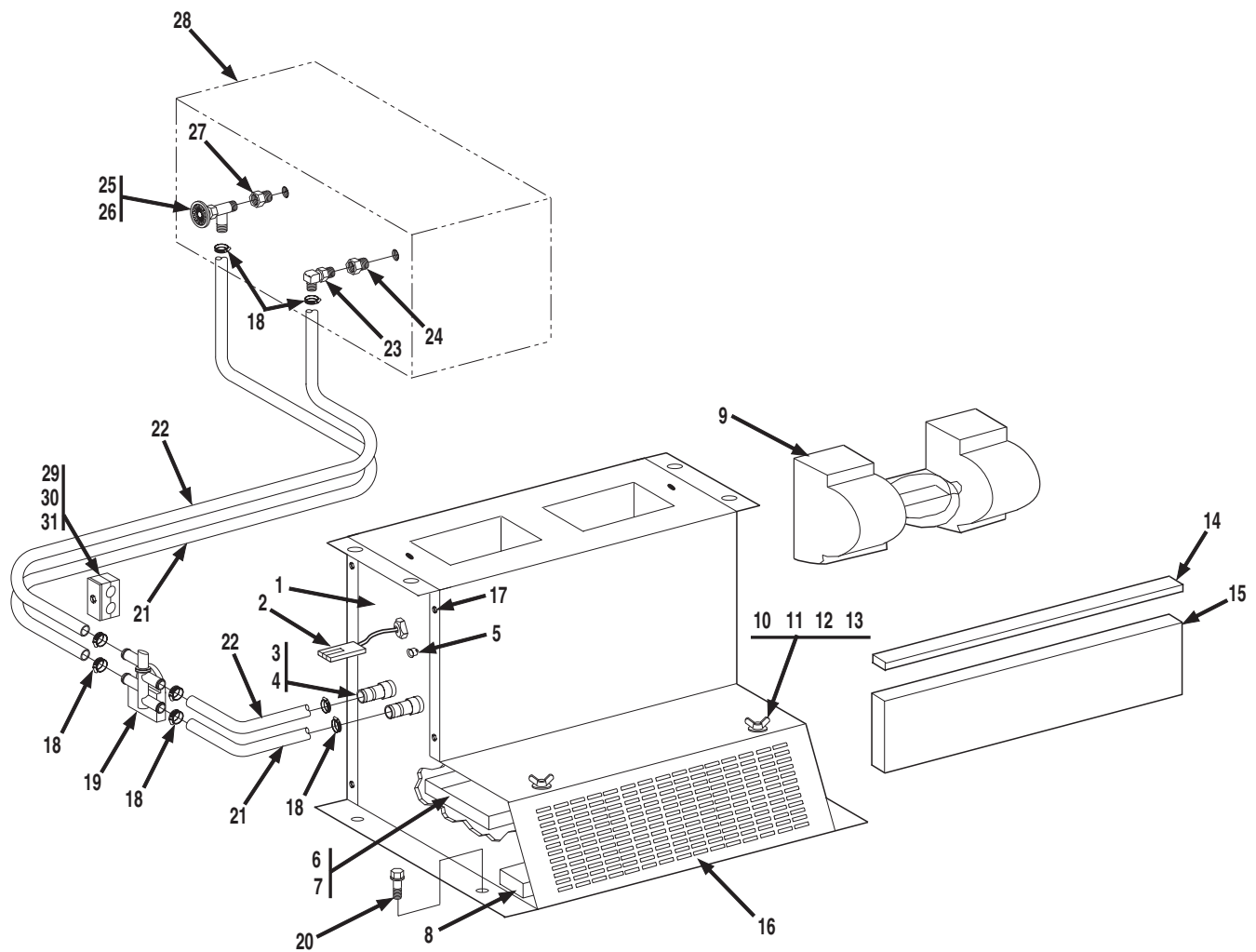
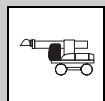




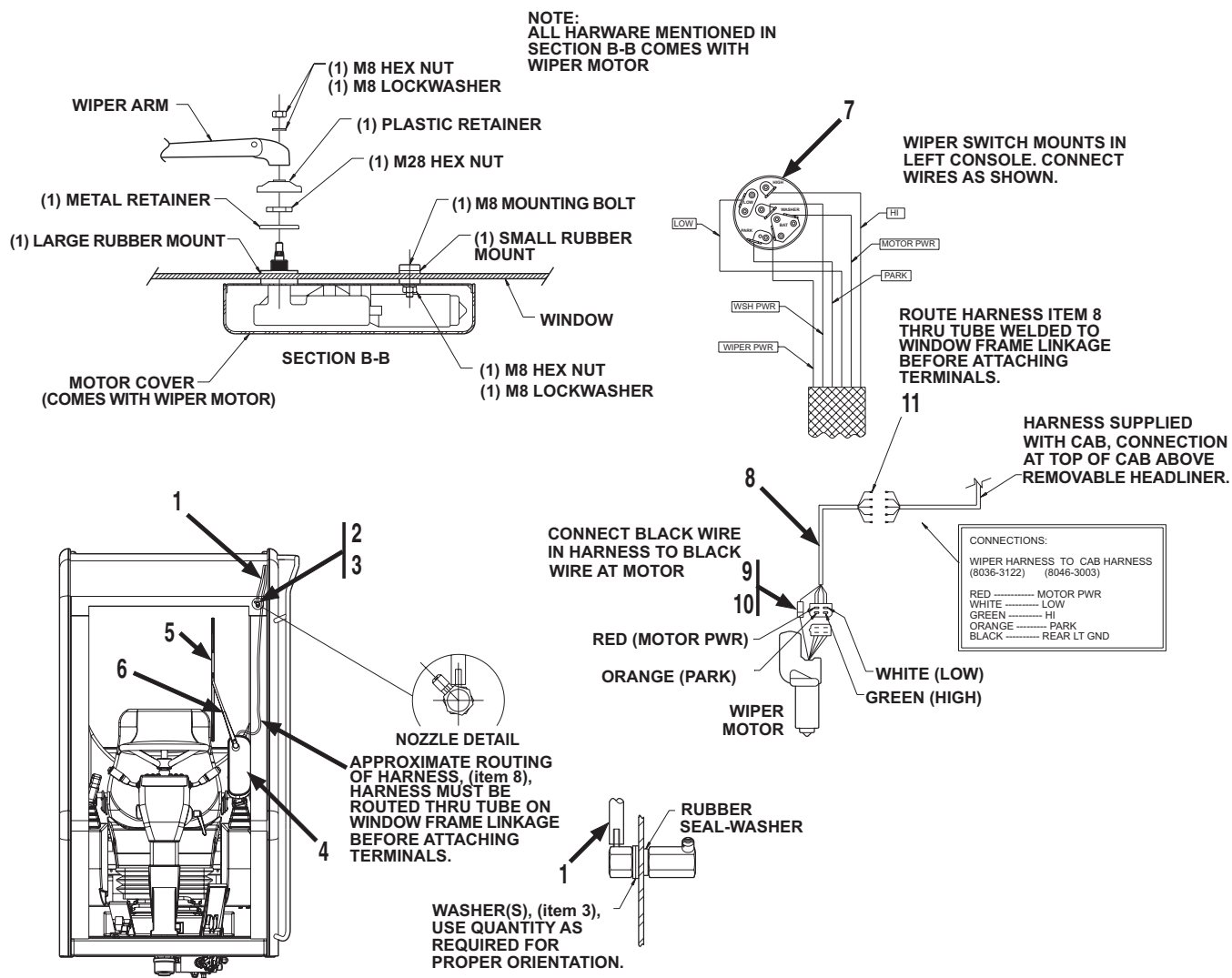
Figure 6-7 Cab Heater & Installation

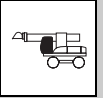
Item	Part Number	Qty.	Description	Rev.
	80363011	1	CAB HEATER, (includes items 1 thru 17)	
1	80364132	1	CASE ASSY	
2	80364124	1	ELECTRONIC HARNESS ASSY	
3	80364133	1	CORE ASSY	
4	80363109	AR	CORK TAPE	
5	80964013	1	SNAP BUSHING	
6	80364126	1	DRAIN PAN	
7	80364127	1	DRAIN CAP	
8	80964016	1	FILTER	
9	80364123	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 BOLT, 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 Wiper-Washer Installation Components



**Figure 6-8 Wiper-Washer Installation Components**

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	80363046	1	WIPER BLADE	
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	
11	90028960	5	INSULATED MALE SPADE	

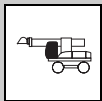
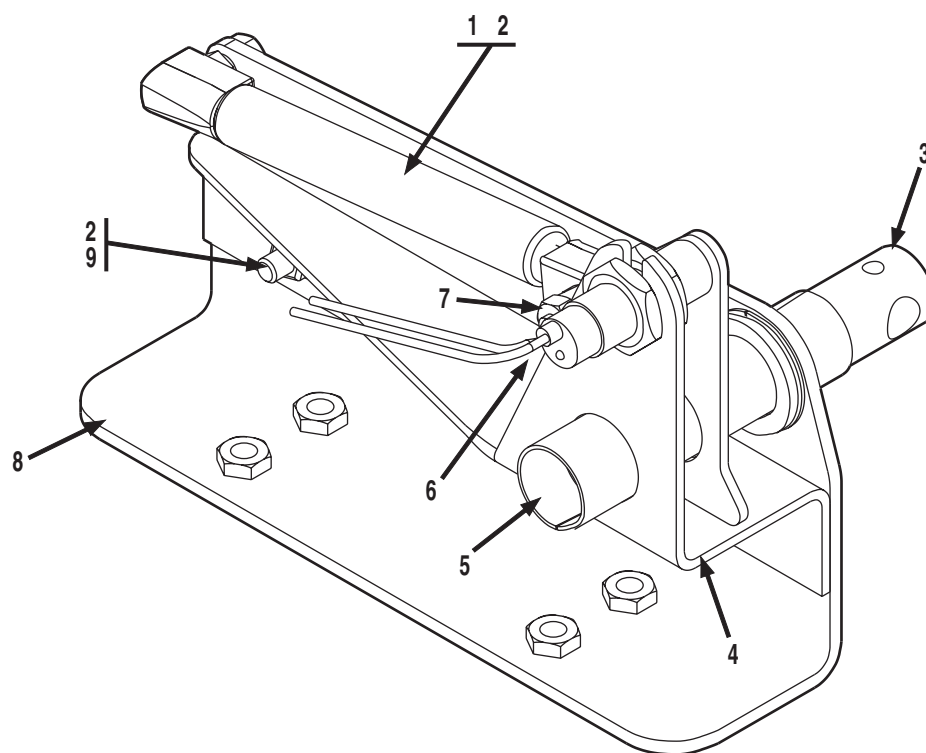
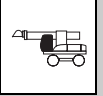
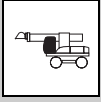


Figure 6-9 Pilot Cut-off Assembly



**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	

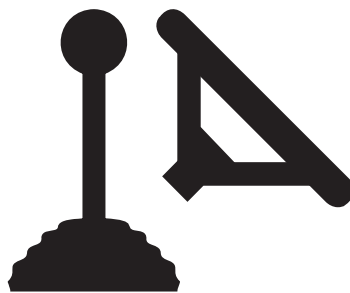


CAB

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SECTION 7

CONTROLS





CONTROLS

Figure 7-1 Joystick

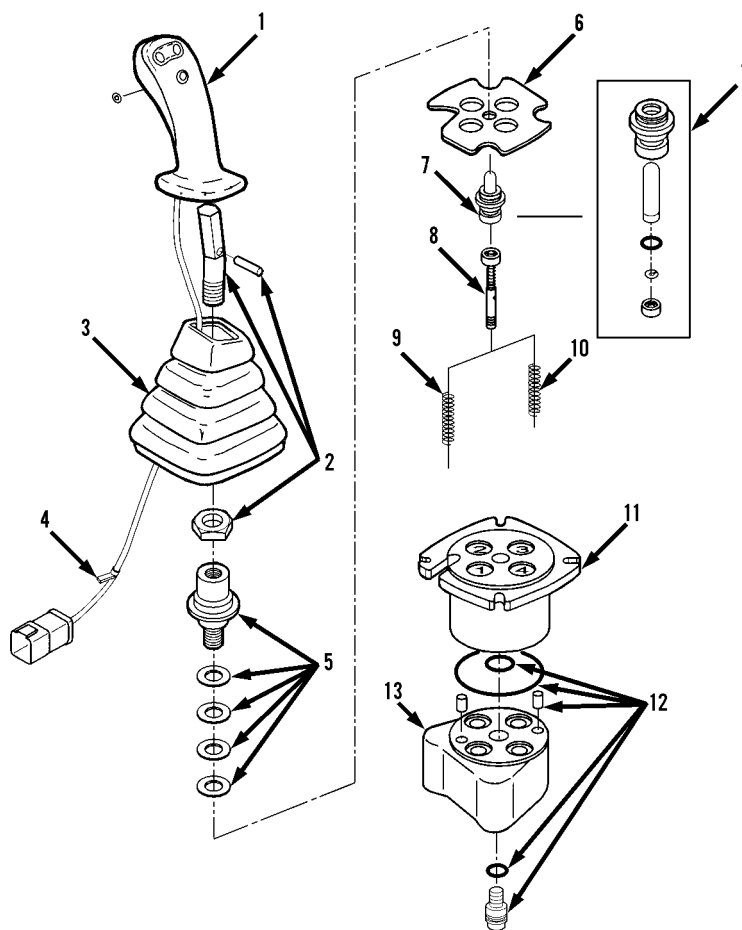




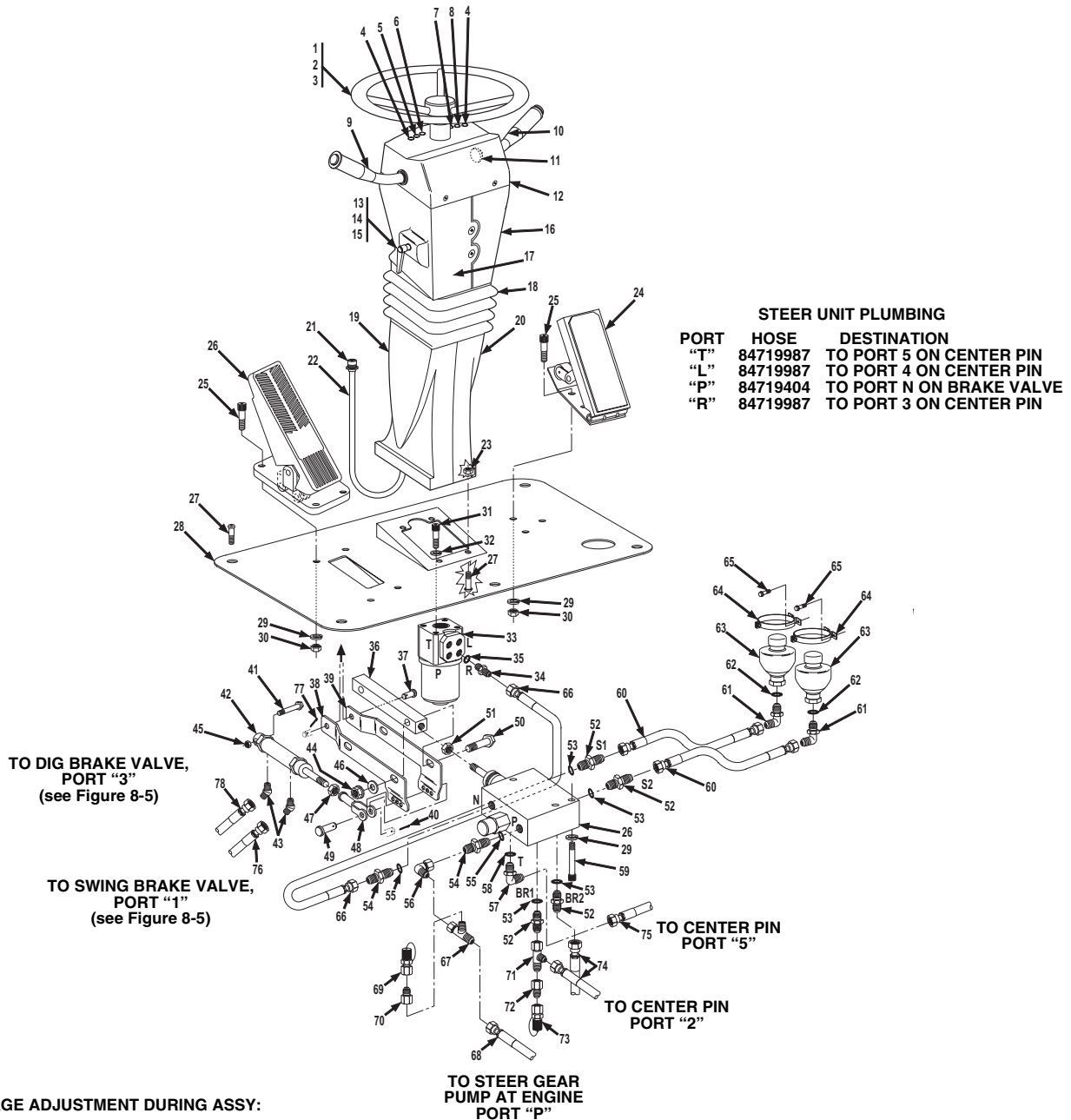
Figure 7-1 Joystick

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

Figure 7-2 Steering Column, Foot Pedals & Installation



BRAKE LINKAGE ADJUSTMENT DURING ASSY:

1. ADJUST SERVICE BRAKE PEDAL LIMIT SCREW TO APPROXIMATELY 1" FROM TOP OF MOUNTING SURFACE TO TOP OF BOLT HEAD; TIGHTEN JAM NUT AGAINST MOUNTING SURFACE.
2. ADJUST SLOTTED BRACKETS, (items 38 & 39), (attached to pedal linkage beneath cab floor), SO THAT BOLTS, (item 50), ARE AT THE REARMOST POINT IN THE SLOTS; TIGHTEN BOLTS.
3. ADJUST BRAKE VALVE PLUNGER JAM NUT, (item 47), TO TAKE UP SLACK IN PEDAL LINKAGE; THIS SHOULD LEAVE ABOUT 1/8" OF EXPOSED THREAD BEHIND JAM NUT.
4. ADJUST & ATTACH SLAVE CYLINDER YOKE, (item 48), TO REARMOST HOLES IN SLOTTED BRACKETS, (items 38 & 39), w/CLEVIS PIN, (item 49), & COTTER PIN, (item 40), & JAM NUT, (item 47).

NOTE: ITEMS 4, 5 & 6 CAN BE ORDERED AS MODULE, P/N 80464017 AND ITEMS 4, 7 & 8 CAN BE ORDERED AS MODULE, P/N 80464018



Figure 7-2 Steering Column, Foot Pedals & Installation

Item	Part Number	Qty.	Description	Rev.
1	80463041	1	STEERING COLUMN, (includes items 1 thru 22)	
2	80464030	1	STEERING WHEEL	
	80464031	1	CAP	
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 & SHAFT, (includes items 14 & 15)	
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		1	CANNON PLUG CONNECTOR	
22	80464029	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 9-36 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

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	80233265	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	80333128	2	ACCUMULATOR	
64	80333129	2	ACCUMULATOR CLAMP	
65	77143003	4	WHIZ-LOK BOLT, 5/16-18X5/8	
66	84719404	1	HOSE ASSY	
67	88662438	1	SWIVEL NUT RUN TEE	
68	84719779	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	84719837	2	HOSE ASSY	
75	84719839	1	HOSE ASSY	
76	84719692	1	HOSE ASSY	
77	88631309	1	COTTER PIN, 3/32X3/4	
78	84719995	1	HOSE ASSY	

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

Item	Part Number	Qty.	Description	Rev.

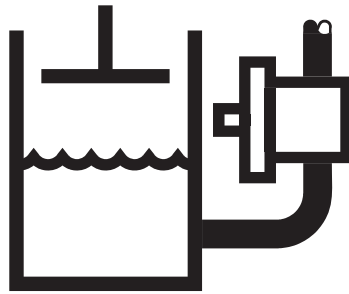


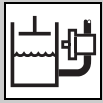
CONTROLS

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SECTION 8

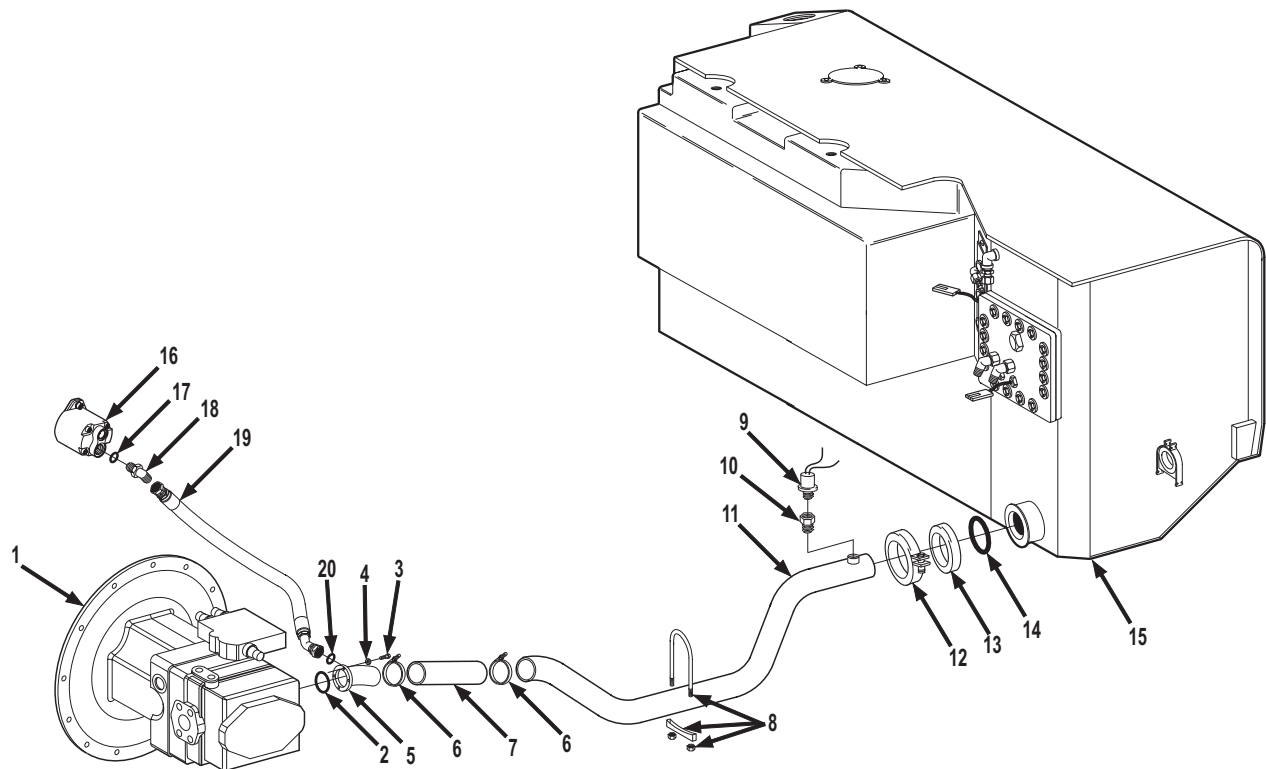
HYDRAULIC CIRCUITS





HYDRAULIC CIRCUITS

Figure 8-1 Oil Supply to Pumps



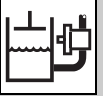
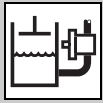


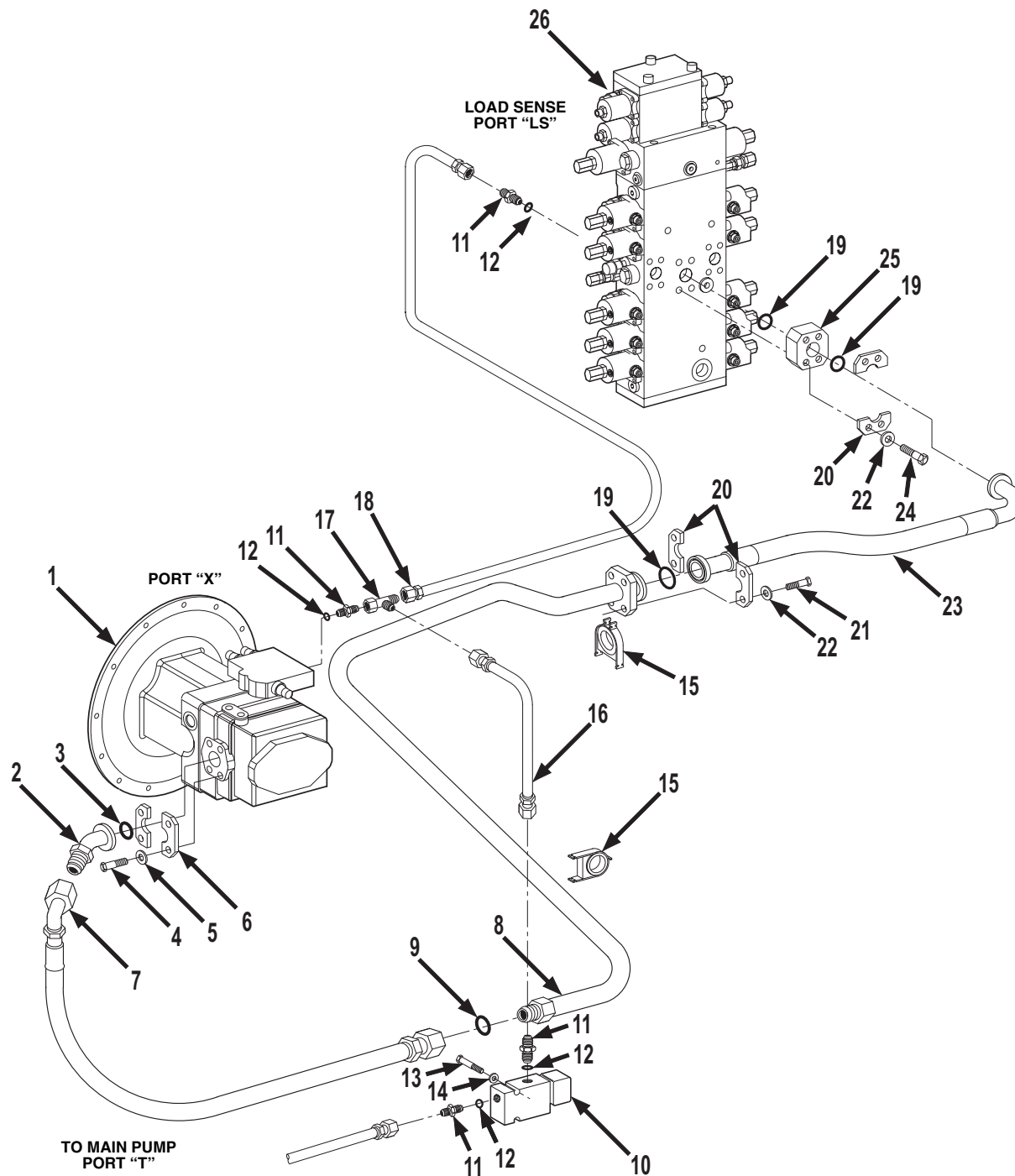
Figure 8-1 Oil Supply to Pumps

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN PUMP, (see Figure 9-7 for details)	
2	80933139	1	O-RING	
3	88201096	4	HEX HD CAPSCREW, 5/8-11X1-3/4, GR5	
4	88551015	4	LOCKWASHER, 5/8	
5	80433107	1	SUCTION FITTING	
6	91163129	2	HEAVY DUTY BAND CLAMP	
7	80433109	1	SUCTION HOSE	
8	24921332	1	MUFFLER CLAMP	
9	80233077	1	SUCTION SWITCH, (150 PSI)	
10	77363111	1	ADAPTER	
11	80433108	1	SUCTION TUBE	
12	86961091	1	GASKET RETAINER	
13	86961092	1	COUPLING	
14	86961093	1	GASKET	
15		Ref	HYDRAULIC RESERVOIR ASSY, (see Figure 9-16 for details)	
16		Ref	GEAR PUMP ASSY, (see Figure 9-27 for details)	
17	88591207	1	O-RING	
18	88662421	1	ELBOW, 45 DEGREES, (includes item 17)	
19	84719549	1	HOSE ASSY	
20	88591508	1	O-RING	



HYDRAULIC CIRCUITS

Figure 8-2 Hydraulic Pressure to Control Valves



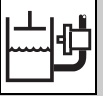
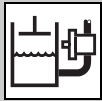


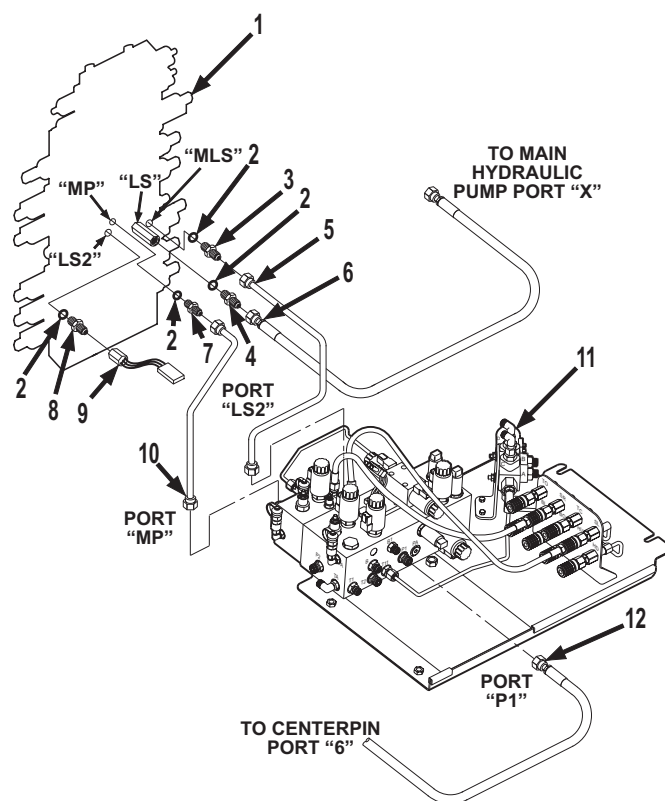
Figure 8-2 Hydraulic Pressure to Control Valves

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN PUMP, (see Figure 9-7 for details)	
2	88662535	1	ELBOW, 90 DEGREES, (flange face)	
3	83783043	1	O-RING	
4	88201098	4	HEX HD CAPSCREW, 5/8-11X2-1/4, GR5	
5	88551015	4	LOCKWASHER, 5/8	
6	84712740	2	FLANGE HALF	
7	84719777	1	HOSE ASSY	
8	80433212	1	TUBE ASSY	
9	88591510	1	O-RING	
10		Ref	COLD START VALVE, (see Figure 9-15 for details)	
11	88662301	2	CONNECTOR, (includes item 12)	
12	88591204	2	O-RING	
13	88201009	2	HEX HD CAPSCREW, 1/4-20X2, GR5	
14	88561002	2	FLAT WASHER, 1/4	
15	90205792	2	CLAMP, 1-1/4	
16	84719883	1	HOSE ASSY	
17	88662446	1	SWIVEL NUT RUN TEE	
18	84719996	1	HOSE ASSY	
19	91083106	1	O-RING	
20	84712738	4	FLANGE HALF	
21	88201053	4	HEX HD CAPSCREW, 7/16-14X1-3/4, GR5	
22	88551012	8	LOCKWASHER, 7/16	
23	84719886	1	HOSE ASSY	
24	88201059	4	HEX HD CAPSCREW, 7/16-14X3-1/4, GR5	
25	80433224	1	SPACER BLOCK	
26		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	



HYDRAULIC CIRCUITS

Figure 8-3 Main Valve to Pilot Manifold Hydraulic Hosing



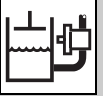
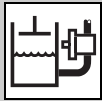


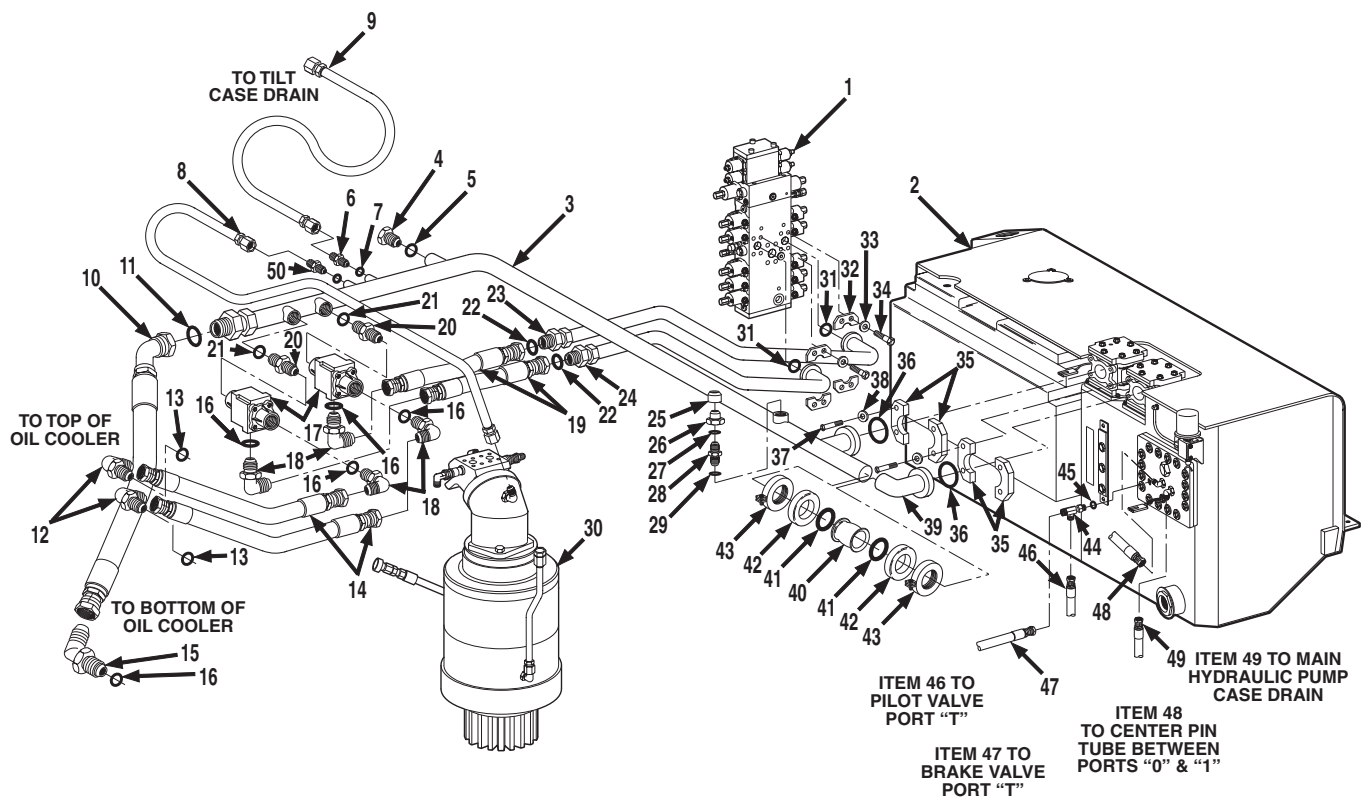
Figure 8-3 Main Valve to Pilot Manifold Hydraulic Hosing

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
2	88591204	4	O-RING	
3	88662471	1	CONNECTOR, (includes item 2)	
4	88662301	1	CONNECTOR, (includes item 2)	
5	80433112	1	TUBE ASSY	
6	84719996	1	HOSE ASSY	
7	88662440	1	CONNECTOR, (includes item 2)	
8	80333052	1	CONNECTOR, (includes item 2)	
9	80433221	1	SWITCH ASSY	
10	80433113	1	TUBE ASSY	
11		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-9 for details)	
12	84719989	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-4 Dump Circuit



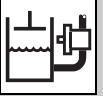
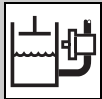


Figure 8-4 Dump Circuit

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-9 for details)	
2		Ref	FUEL TANK & HYDRAULIC RESERVOIR ASSY, (see Figures 4-7 & 9-16 for details)	
3	80433099	1	DUMP TUBE ASSY	
4	88662196	1	HEX PLUG, (includes item 5)	
5	88591209	1	O-RING	
6	88662302	1	CONNECTOR, (includes item 7)	
7	88591205	2	O-RING	
8	84719985	1	HOSE ASSY	
9	84721043	1	HOSE ASSY	
10	84719769	1	HOSE ASSY	
11	88591511	1	O-RING	
12	88662334	2	ELBOW, 90 DEGREES, (includes item 13)	
13	88591210	2	O-RING	
14	84719770	2	HOSE ASSY	
15	88662424	1	ELBOW, 45 DEGREES, (includes item 16)	
16	88591209	5	O-RING	
17		Ref	THERMAL BYPASS VALVE ASSY, (see Figure 9-15 for details)	
18	88662455	4	ELBOW, 90 DEGREES, (includes item 16)	
19	84719770	2	HOSE ASSY	
20	80933055	2	CONNECTOR, (includes item 21)	
21		2	O-RING	
22	88591510	2	O-RING	
23	80433101	1	TUBE ASSY	
24	80433102	1	TUBE ASSY	
25	83623026	1	DUST CAP, (male)	
	83623027	1	DUST CAP, (female)	
26	83451129	1	QUICK-DISCONNECT MALE COUPLING	
	83451128	1	QUICK-DISCONNECT FEMALE COUPLING	
27	88662027	1	CONNECTOR, (includes item 28)	
28	88591209	1	O-RING	
29	88591207	1	O-RING	
30		Ref	SWING TRANSMISSION, (see Figure 9-17 for details)	
31	91083066	2	O-RING	
32	84711333	4	FLANGE HALF	
33	88551011	8	LOCKWASHER, 3/8	
34	88201036	8	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
35	84711427	4	FLANGE HALF	
36	77363038	2	O-RING	
37	88201067	8	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
38	88551013	8	LOCKWASHER, 1/2	
39	80433111	1	TUBE ELBOW	
40	86971349	1	SLEEVE	
41	86571119	2	TUBE JOINT GASKET	
42	86571120	2	TUBE JOINT COUPLING	
43	86571121	2	GASKET RETAINER	
44	88662347	1	RUN TEE	
45	88591205	1	O-RING	
46	84719779	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-4 Dump Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.
47	84719839	1	HOSE ASSY	
48	84719884	1	HOSE ASSY	
49	84719841	1	HOSE ASSY	
50	88662330	1	CONNECTOR, (includes item 7)	

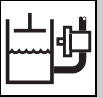
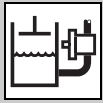


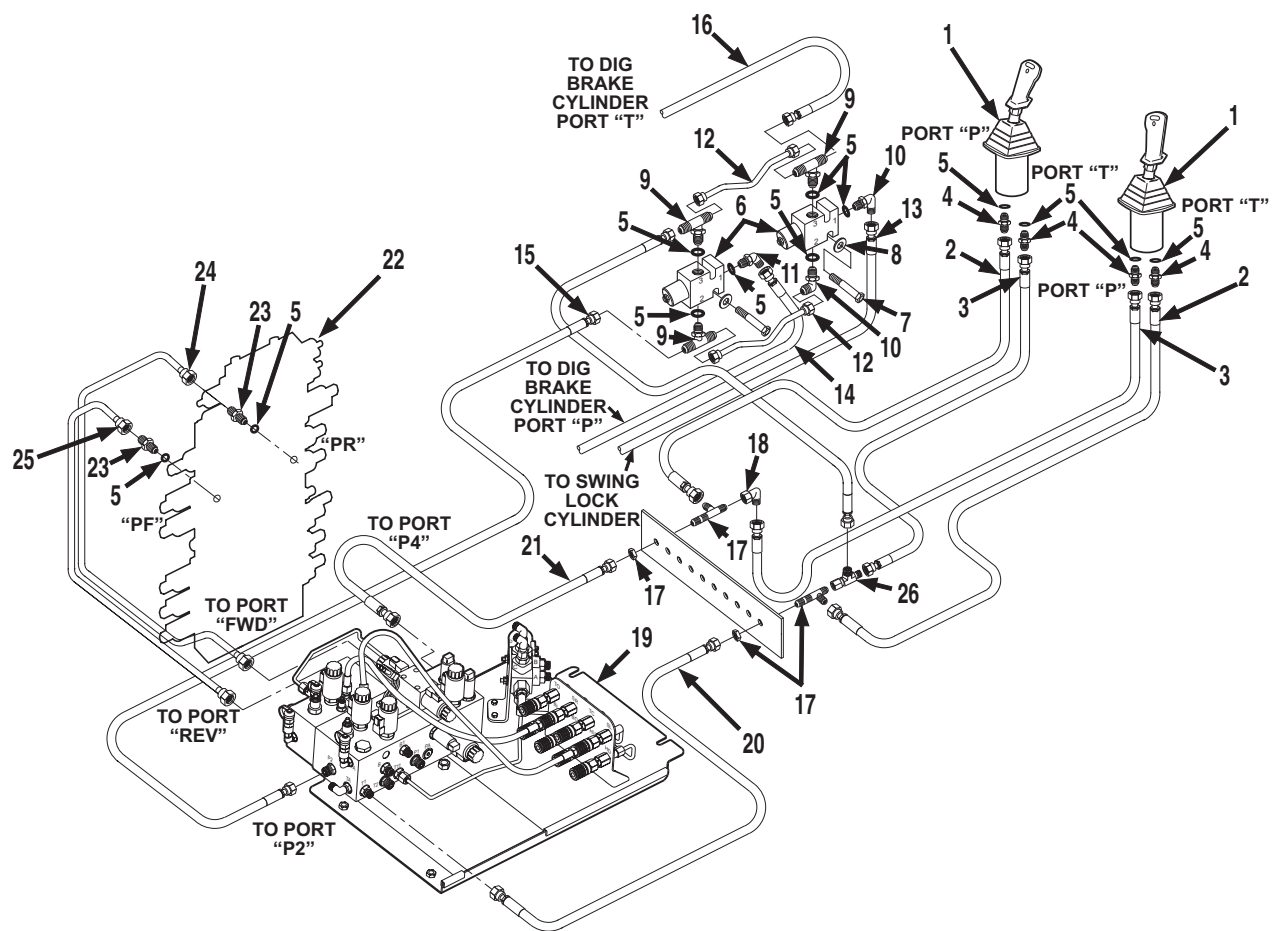
Figure 8-4 Dump Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC CIRCUITS

Figure 8-5 Hydraulic Hosing to Joysticks & Propel



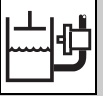
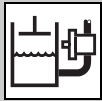


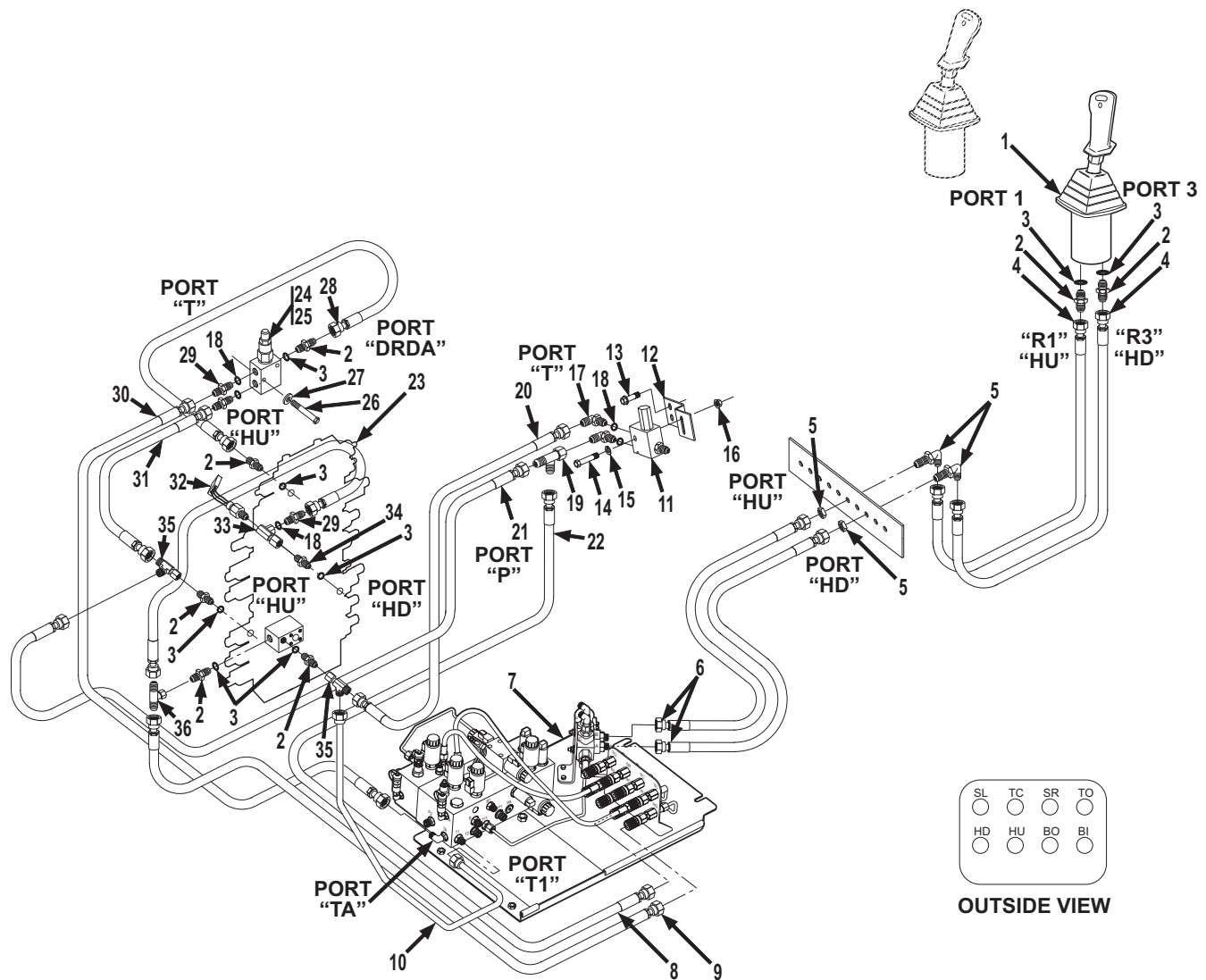
Figure 8-5 Hydraulic Hosing to Joysticks & Propel

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	4	CONNECTOR, (includes item 5)	
5	88591204	12	O-RING	
6		Ref	SOLENOID VALVE ASSY, (see Figure 9-35 for details)	
7	88201008	4	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
8	88561002	4	FLAT WASHER, 1/4	
9	88662338	3	BRANCH TEE, (includes item 5)	
10	88662329	2	ELBOW, 90 DEGREES, (includes item 5)	
11	80333183	1	ORIFICE ELBOW, 90 DEGREES, (includes item 5)	
12	80433202	2	TUBE ASSY	
13	84719997	1	HOSE ASSY	
14	84719995	1	HOSE ASSY	
15	84719988	1	HOSE ASSY	
16	84719692	1	HOSE ASSY	
17	88662434	2	BULKHEAD RUN TEE	
18	88662371	1	ELBOW, 90 DEGREES, (swivel nut)	
19		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-9 for details)	
20	84718609	1	HOSE ASSY	
21	84719990	1	HOSE ASSY	
22		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
23	88662471	2	CONNECTOR, (includes item 5)	
24	80433196	1	TUBE ASSY	
25	80433197	1	TUBE ASSY	
26	88662446	1	SWIVEL NUT RUN TEE	



HYDRAULIC CIRCUITS

Figure 8-6 Hoist Pilot



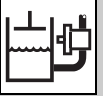
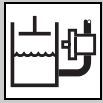


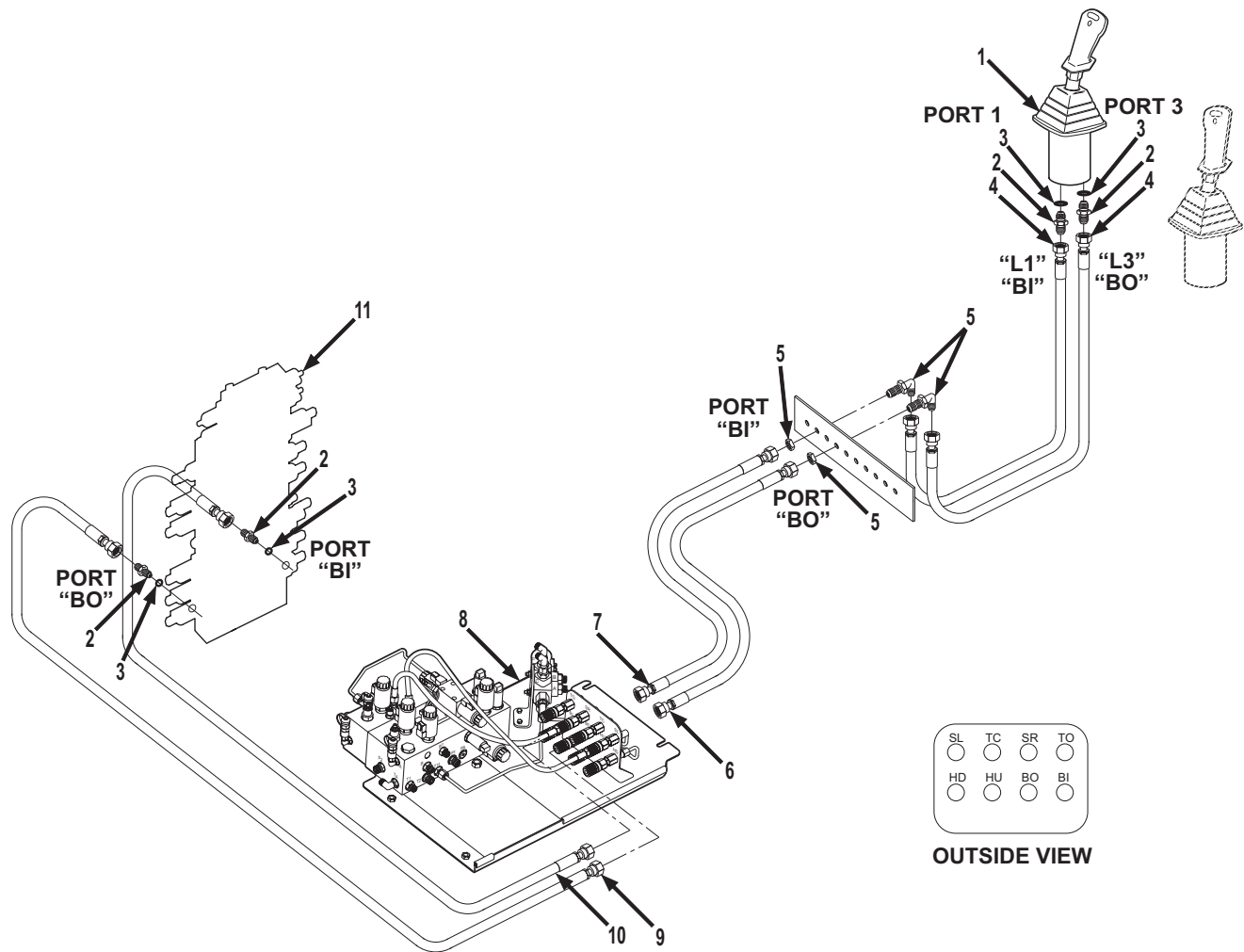
Figure 8-6 Hoist Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	JOYSTICK, (see Figure 7-1 for details)	
2	88662471	7	CONNECTOR, (includes item 3)	
3	88591204	8	O-RING	
4	84719412	2	HOSE ASSY	
5	80333045	2	BULKHEAD ELBOW, 90 DEGREES	
6	84719312	2	HOSE ASSY	
7		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-9 for details)	
8	84719297	1	HOSE ASSY	
9	84719296	1	HOSE ASSY	
10	80433118	1	TUBE ASSY	
11		Ref	HOIST LIMIT VALVE ASSY, (see Figure 9-37 for details)	
12	80431047	1	VALVE BRACKET	
13	80223034	2	WHIZ-LOK BOLT, 1/2-13X3/4	
14	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
15	88561002	2	FLAT WASHER, 1/4	
16	88521304	2	HEX LOCKNUT, 1/4-20	
17	88662417	2	ELBOW, 45 DEGREES, (includes item 18)	
18	88591202	5	O-RING	
19	88663209	1	SWIVEL NUT RUN TEE, (orifice)	
20	84719559	1	HOSE ASSY	
21	84719412	1	HOSE ASSY	
22	84719297	1	HOSE ASSY	
23		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
24		Ref	SWING REDUCTION VALVE ASSY, (see Figure 9-40 for details)	
25	80471079	1	VALVE BRACKET	
26	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
27	88551009	2	LOCKWASHER, 1/4	
28	84719888	1	HOSE ASSY	
29	88662300	3	CONNECTOR, (includes item 18)	
30	84719311	1	HOSE ASSY	
31	84719305	1	HOSE ASSY	
32	80333100	1	PRESSURE SWITCH	
33	80633132	1	SPECIAL ELBOW	
34	80333052	1	CONNECTOR, (includes item 3)	
35	80233259	2	SWIVEL NUT RUN TEE	
36	88662353	1	SWIVEL NUT BRANCH TEE	



HYDRAULIC CIRCUITS

Figure 8-7 Boom Pilot



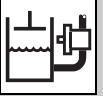
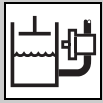


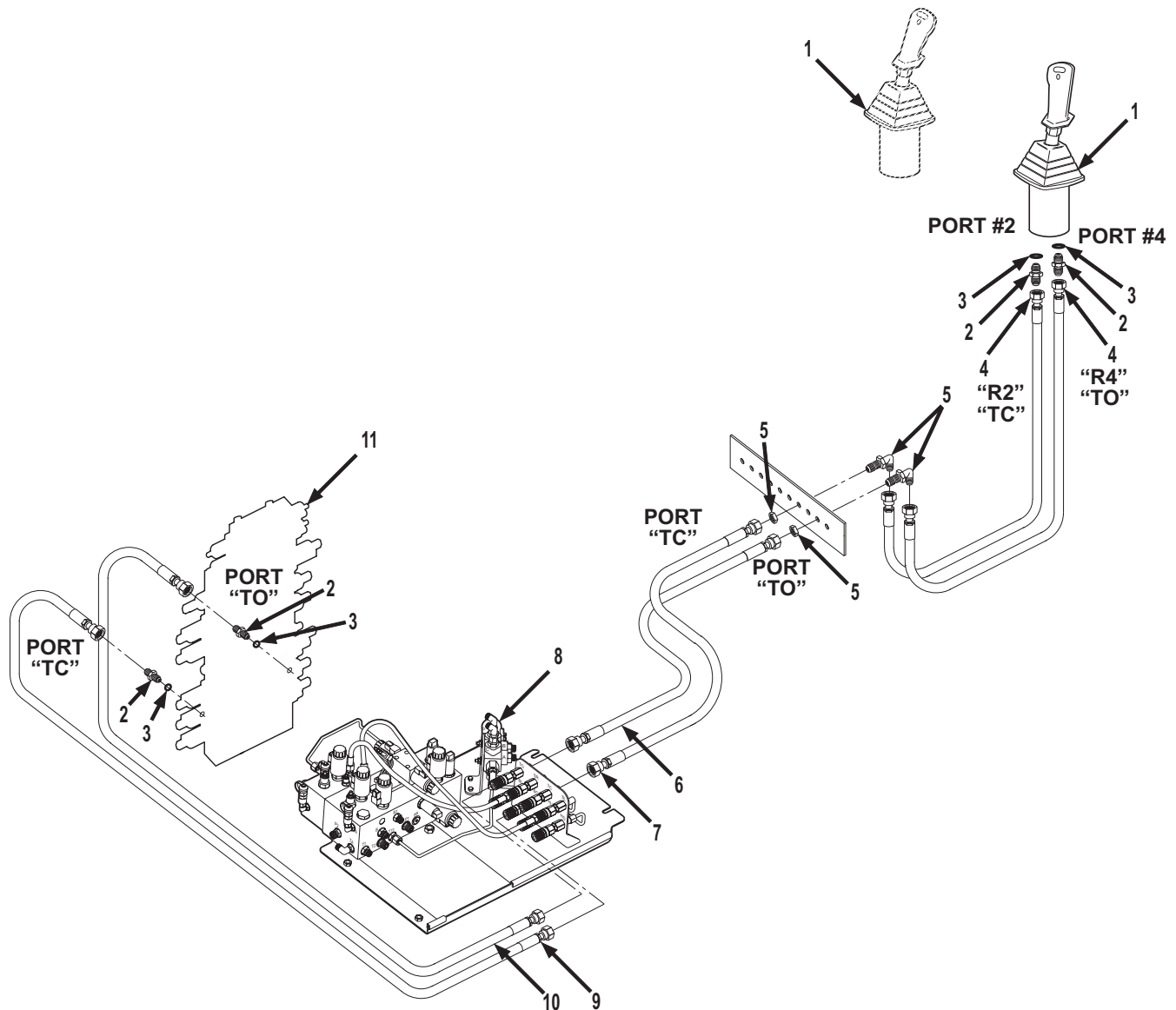
Figure 8-7 Boom Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	JOYSTICK, (see Figure 7-1 for details)	
2	88662471	4	CONNECTOR, (includes item 3)	
3	88591204	4	O-RING	
4	84719412	2	HOSE ASSY	
5	80333045	2	BULKHEAD ELBOW, 90 DEGREES	
6	84719312	1	HOSE ASSY	
7	84719602	1	HOSE ASSY	
8		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-9 for details)	
9	84719334	1	HOSE ASSY	
10	84719298	1	HOSE ASSY	
11		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	



HYDRAULIC CIRCUITS

Figure 8-8 Tool Pilot



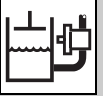
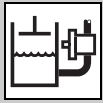


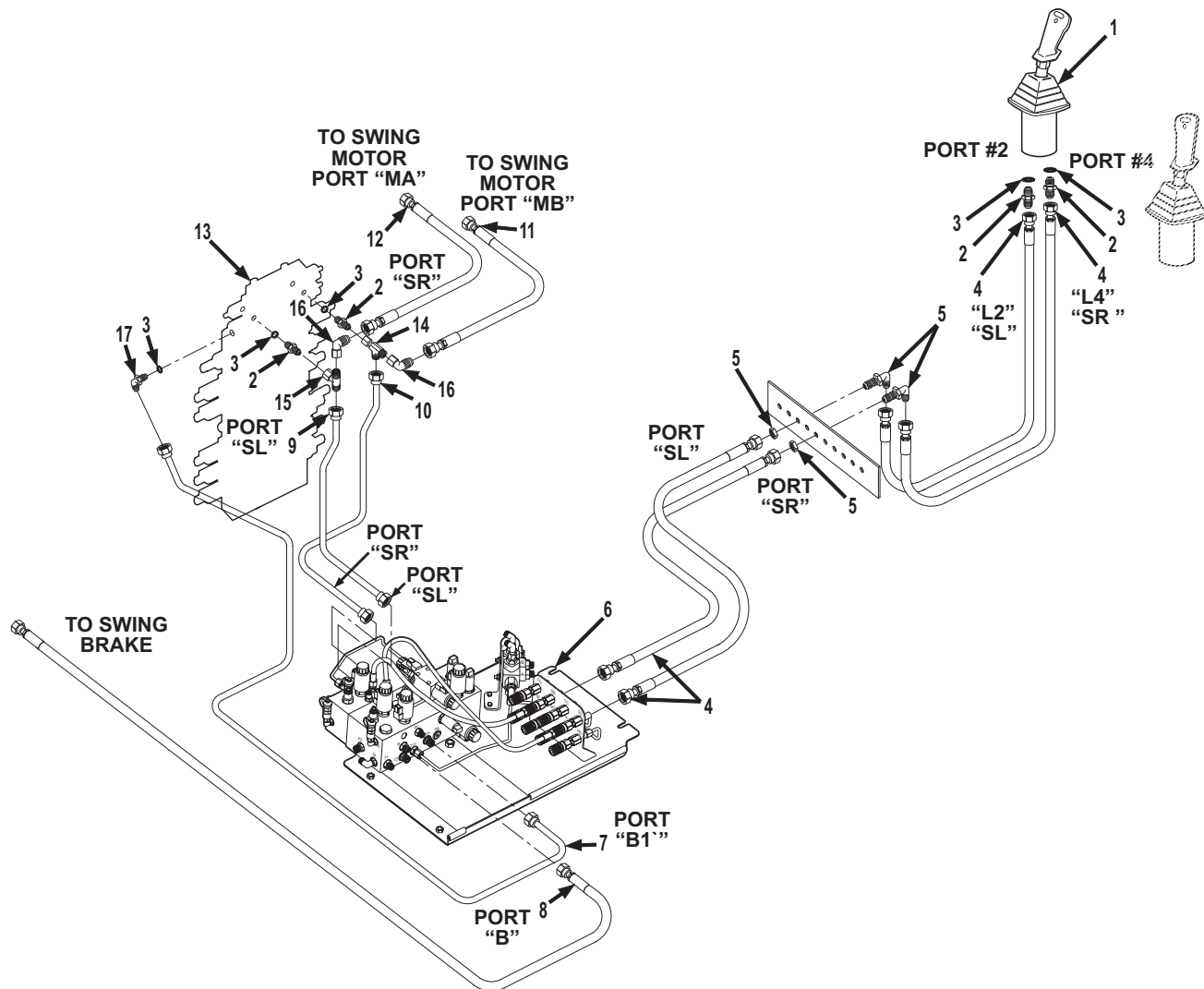
Figure 8-8 Tool Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	JOYSTICK, (see Figure 7-1 for details)	
2	88662471	4	CONNECTOR, (includes item 3)	
3	88591204	4	O-RING	
4	84719412	2	HOSE ASSY	
5	80333045	2	BULKHEAD ELBOW, 90 DEGREES	
6	84719314	1	HOSE ASSY	
7	84719295	1	HOSE ASSY	
8		Ref	PILOT MANIFOLD CONTROL VALVE ASSY, (see Figure 9-9 for details)	
9	84719295	1	HOSE ASSY	
10	84719314	1	HOSE ASSY	
11		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	



HYDRAULIC CIRCUITS

Figure 8-9 Swing & Swing Brake Pilot



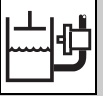


Figure 8-9 Swing & Swing Brake Pilot

Item	Part Number	Qty.	Description	Rev.
1		Ref	JOYSTICK, (see Figure 7-1 for details)	
2	88662471	4	CONNECTOR, (includes item 3)	
3	88591204	5	O-RING	
4	84719312	4	HOSE ASSY	
5	80333045	2	BULKHEAD ELBOW, 90 DEGREES	
6		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-9 for details)	
7	80433225	1	TUBE ASSY	
8	84719602	1	HOSE ASSY	
9	80433116	1	TUBE ASSY	
10	80433115	1	TUBE ASSY	
11	84719532	1	HOSE ASSY	
12	84719531	1	HOSE ASSY	
13		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
14	80233259	1	SWIVEL NUT RUN TEE	
15	88662353	1	SWIVEL NUT BRANCH TEE	
16	88662370	2	ELBOW, 90 DEGREES, (swivel nut)	
17	88662489	1	ELBOW, 90 DEGREES, (includes item 3)	

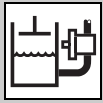
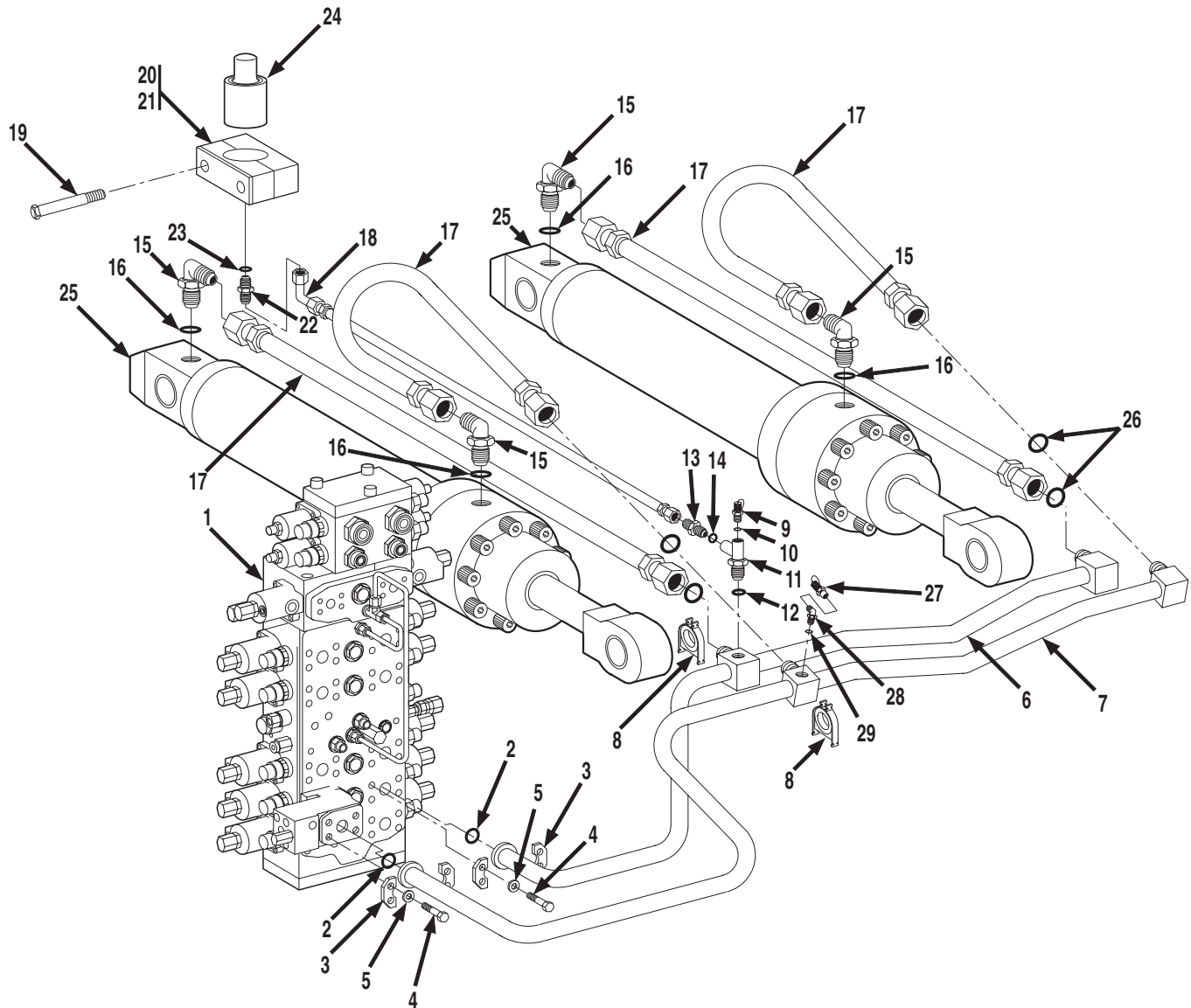


Figure 8-10 Hoist Cylinder



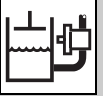
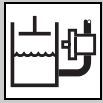


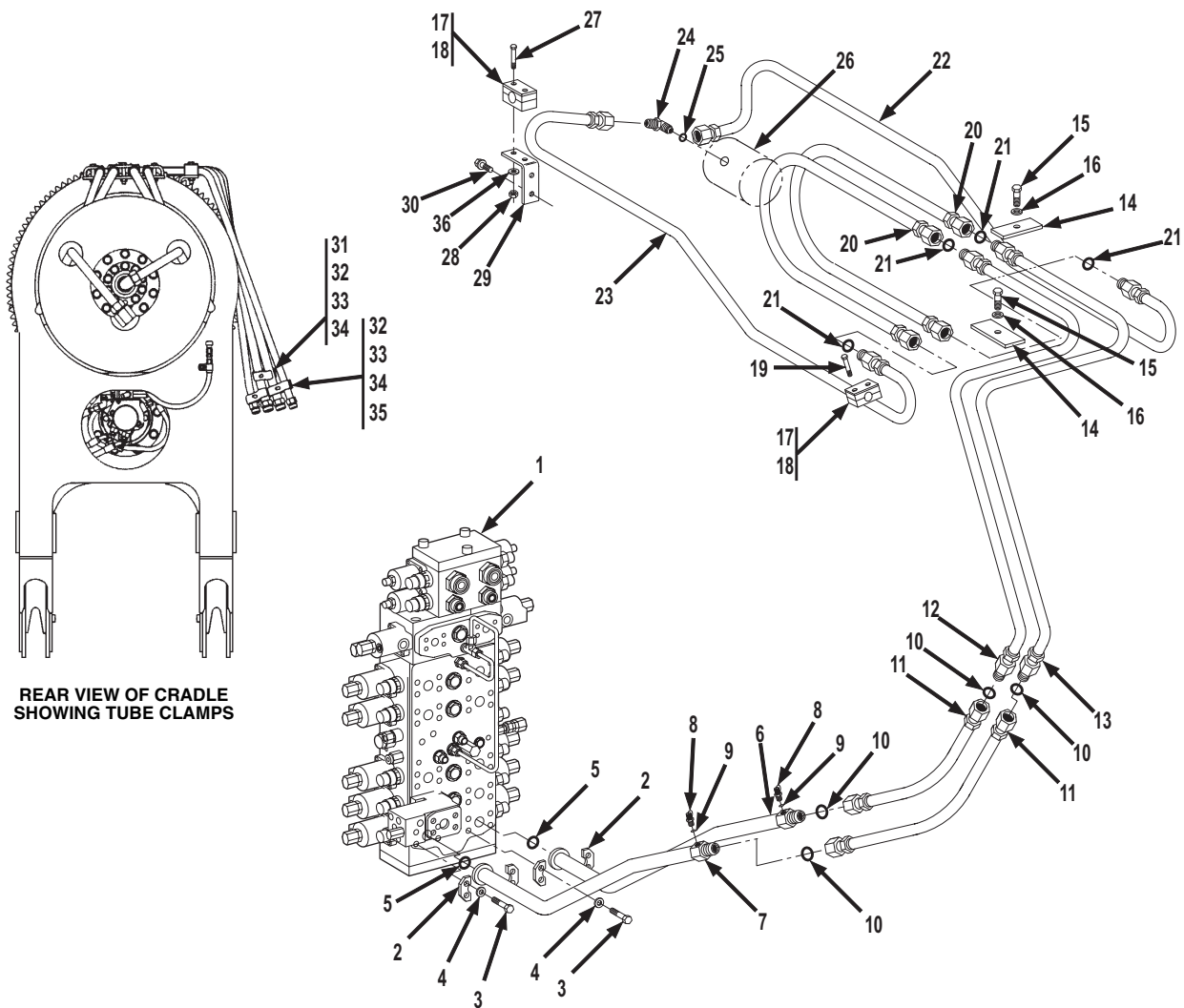
Figure 8-10 Hoist Cylinder

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 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	80433022	1	TUBE ASSY	
7	80433023	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	84719882	4	HOSE ASSY	
18	84719268	1	HOSE ASSY	
19	88201062	2	HEX HD CAPSCREW, 7/16-14X4, GR5	
20	83253006	1	COVER PLATE	
21	80313031	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	



HYDRAULIC CIRCUITS

Figure 8-11 Boom Cylinder



REAR VIEW OF CRADLE
SHOWING TUBE CLAMPS

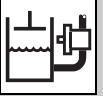
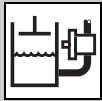


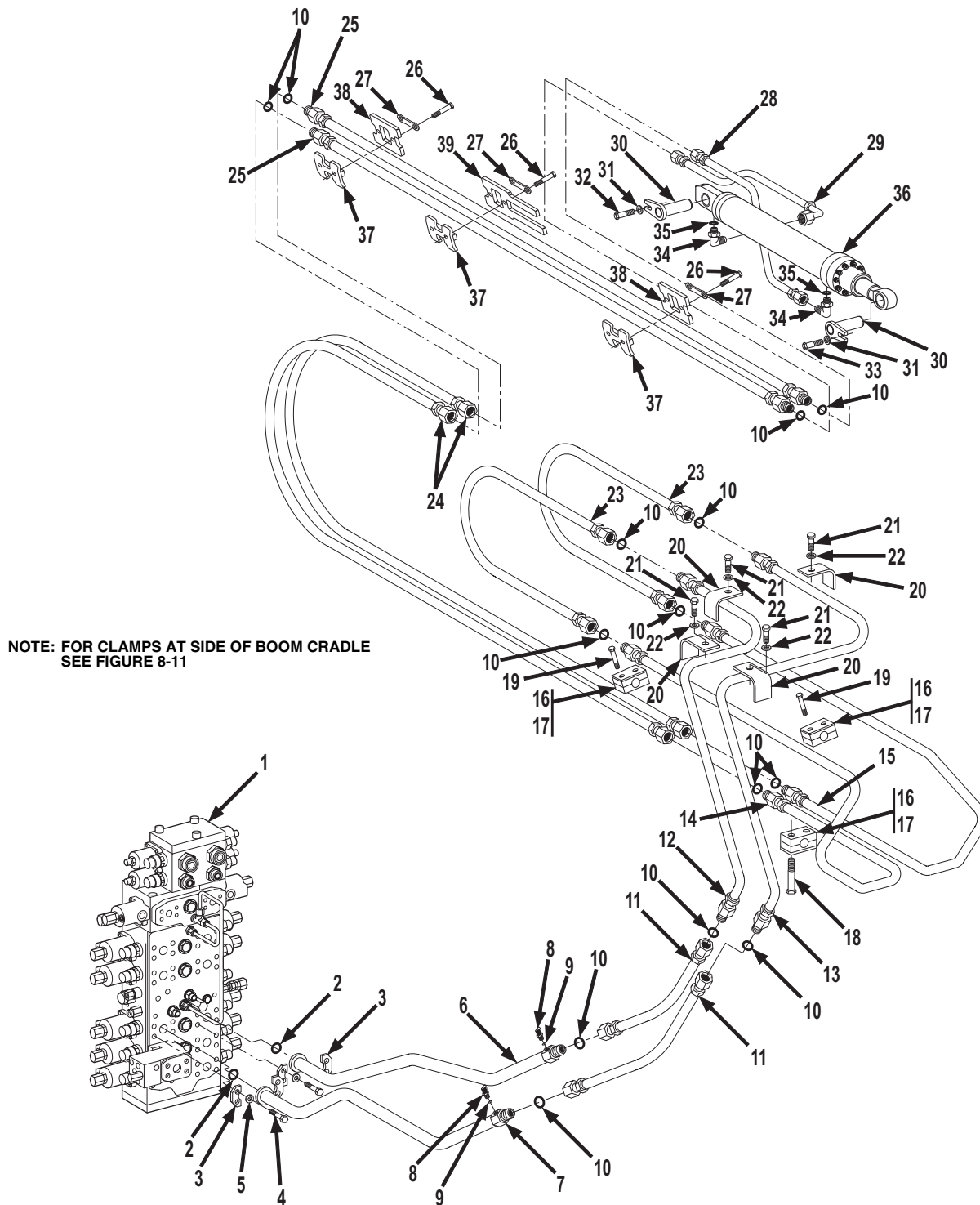
Figure 8-11 Boom Cylinder

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 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	80433203	1	TUBE ASSY	
7	80433204	1	TUBE ASSY	
8	77133089	2	MINI-CHECK COUPLING, (includes item 9)	
9	83763056	2	VITON O-RING, (lubricate lightly)	
10	88591509	4	O-RING	
11	84719452	2	HOSE ASSY	
12	80423020	1	TUBE ASSY	
13	80423019	1	TUBE ASSY	
14	80321083	2	TUBE CLAMP	
15	88201073	2	HEX HD CAPSCREW, 1/2-13X3, GR5	
16	88551013	2	LOCKWASHER, 1/2	
17	83251291	3	COVER PLATE	
18	83251289	3	CLAMP SET	
19	88201042	4	HEX HD CAPSCREW, 3/8-16X2-3/4, GR5	
20	84719401	2	HOSE ASSY	
21	88591510	4	O-RING	
22	80423017	1	TUBE ASSY	
23	80423018	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 BOLT, 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	



HYDRAULIC CIRCUITS

Figure 8-12 Tool Cylinder



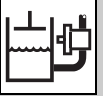
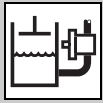


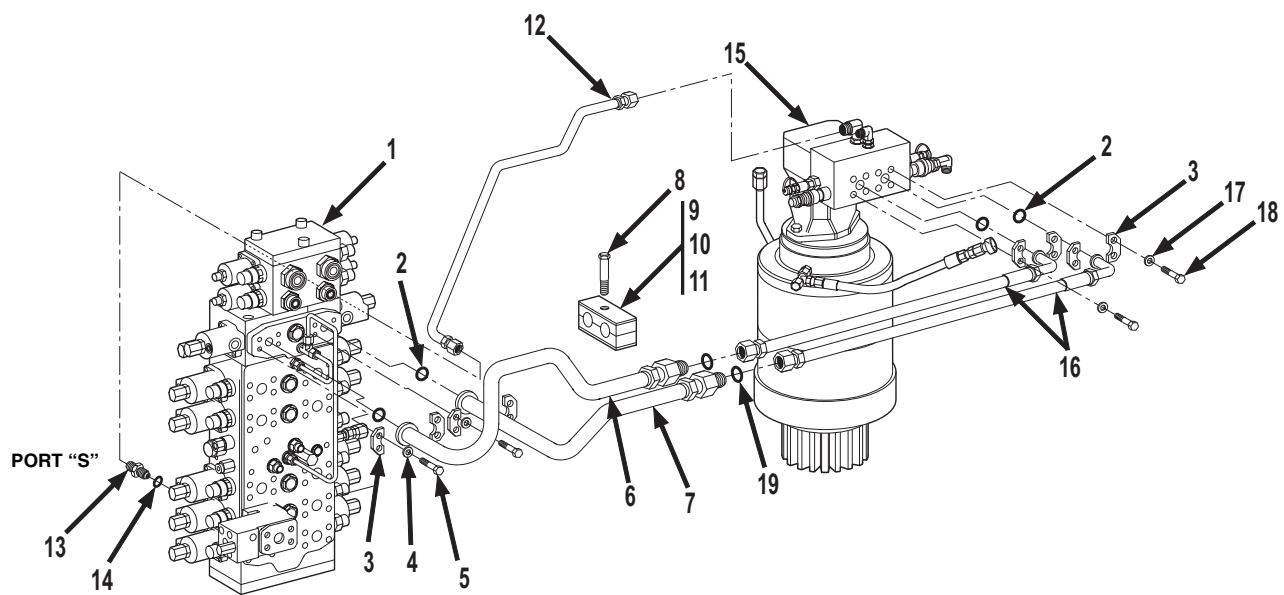
Figure 8-12 Tool Cylinder

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 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	80433027	1	TUBE ASSY	
7	80433026	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	80423022	1	TUBE ASSY	
13	80423023	1	TUBE ASSY	
14	80423014	1	TUBE ASSY	
15	80423013	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	88201073	4	HEX HD CAPSCREW, 1/2-13X3, GR5	
22	88551013	4	LOCKWASHER, 1/2	
23	84718116	2	HOSE ASSY	
24	84719845	2	HOSE ASSY	
25	80423025	2	TUBE ASSY	
26	88201068	6	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
27	80221278	3	KEEPER	
28	84719791	1	HOSE ASSY	
29	84719174	1	HOSE ASSY	
30	80926014	2	PIN WELDMENT	
31	83621283	2	SPECIAL WASHER	
32	88201063	1	HEX HD CAPSCREW, 1/2-13X3/4, GR5	
33	83201047	1	HEX HD CAPSCREW, 1/2-13X1-3/4, 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	80423038	3	TOP CLAMP WELDMENT	
38	80321136	2	BOTTOM PLATE	
39	80321137	1	CENTER CLAMP PLATE	



HYDRAULIC CIRCUITS

Figure 8-13 Swing Motor



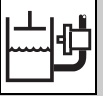
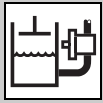


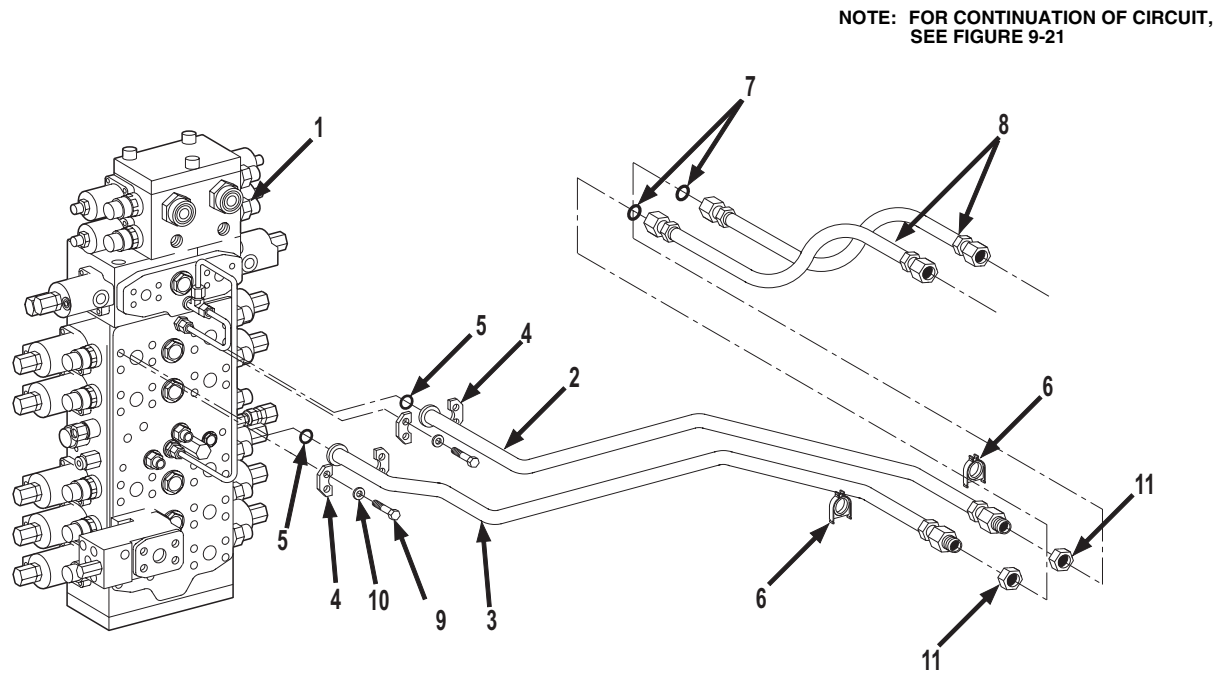
Figure 8-13 Swing Motor

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 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	80433135	1	TUBE ASSY	
7	80433031	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	80433032	1	TUBE ASSY	
13	88662311	1	CONNECTOR, (includes item 14)	
14	88591206	1	O-RING	
15		Ref	SWING TRANSMISSION, (see Figure 9-17 for details)	
16	84719881	2	HOSE ASSY	
17	83191013	8	LOCKWASHER, M10	
18	83191027	8	HEX HD CAPSCREW, M10-1.5X35, GR8	
19	88591508	2	O-RING	



HYDRAULIC CIRCUITS

Figure 8-14 Tilt Motor



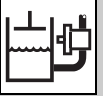
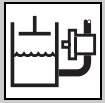


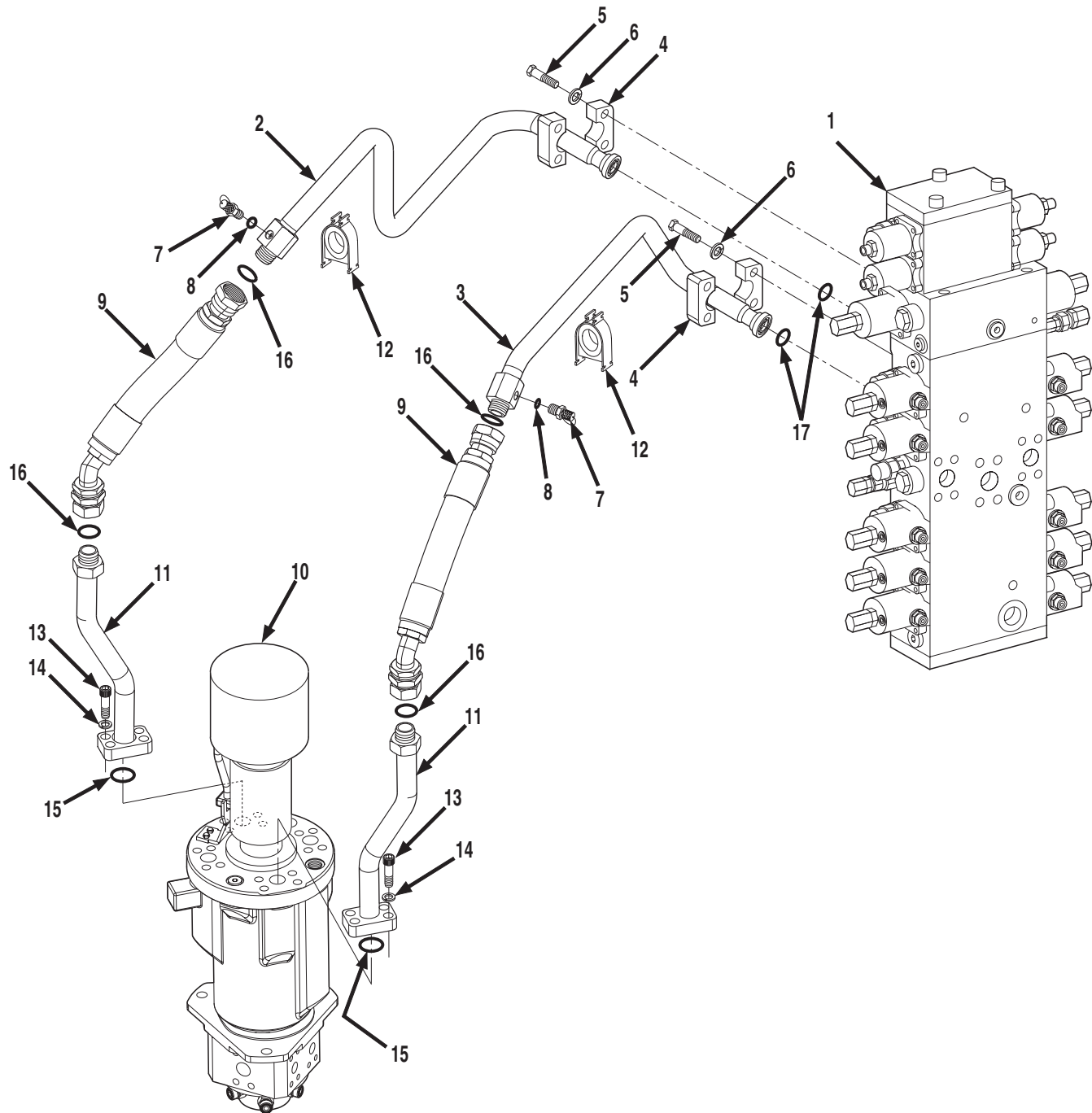
Figure 8-14 Tilt Motor

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
2	80433091	1	TUBE ASSY	
3	80433090	1	TUBE ASSY	
4	84712737	4	FLANGE HALF	
5	80933066	2	O-RING	
6	91083217	2	CUSHION CLAMP	
7	88591506	2	O-RING	
8	84719955	2	HOSE ASSY	
9	88201037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
10	88551011	8	LOCKWASHER, 3/8	
11	88662503	2	BULKHEAD NUT	



HYDRAULIC CIRCUITS

Figure 8-15 Upper Propelling



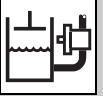
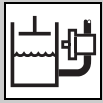


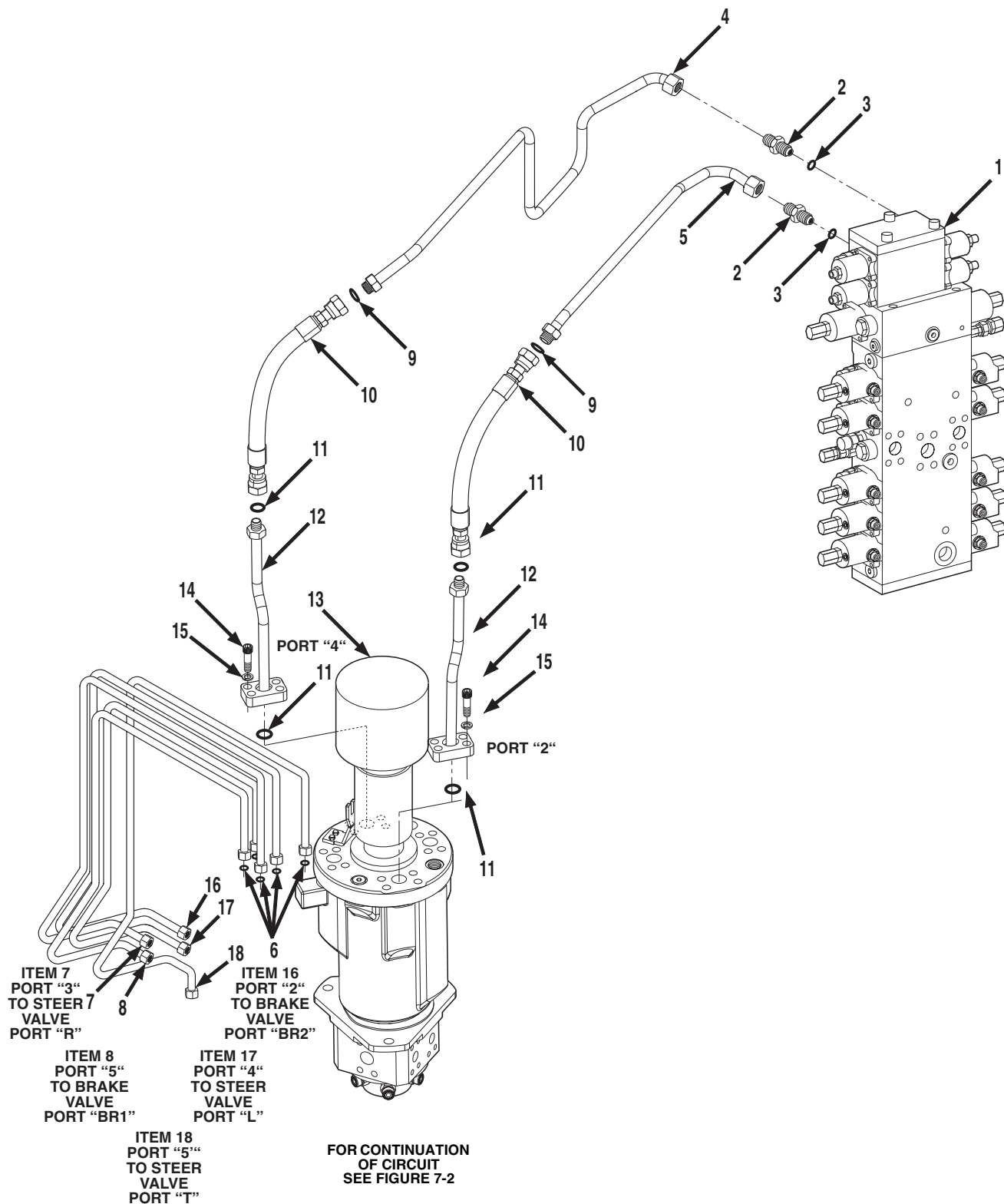
Figure 8-15 Upper Propelling

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
2	80433094	1	TUBE ASSY	
3	80433095	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 9-26 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	2	O-RING	
16	88591510	4	O-RING	
17	80933066	2	O-RING	



HYDRAULIC CIRCUITS

Figure 8-16 Chassis Supply



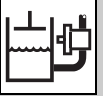
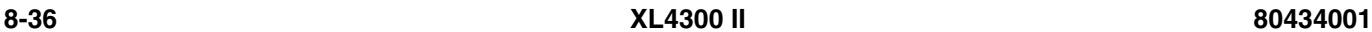
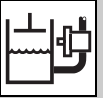


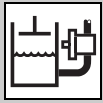
Figure 8-16 Chassis Supply

Item	Part Number	Qty.	Description	Rev.
1		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
2	88662304	2	CONNECTOR, (includes item 3)	
3	88591209	2	O-RING	
4	80433096	1	TUBE ASSY	
5	80433097	1	TUBE ASSY	
6	88591506	5	O-RING	
7	80433138	1	TUBE ASSY	
8	80433140	1	TUBE ASSY	
9	88591508	2	O-RING	
10	84719589	2	HOSE ASSY	
11	80933066	4	O-RING	
12	80333174	2	TUBE ASSY	
13		Ref	CENTER PIN ASSY, (see Figure 9-26 for details)	
14	83191065	8	HEX SOCKET HD CAPSCREW, M10-1.5X40, GR8	
15	83191013	8	LOCKWASHER, M10	
16	80433137	1	TUBE ASSY	
17	80433139	1	TUBE ASSY	
18	80433136	1	TUBE ASSY	



**Figure 8-17 Chassis Supply Pilot**

Item	Part Number	Qty.	Description	Rev.
1		Ref	PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-9 for details)	
2	84719363	1	HOSE ASSY	
3	84719991	1	HOSE ASSY	
4		Ref	MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-11 for details)	
5	88662471	2	CONNECTOR, (includes item 6)	
6	88591204	2	O-RING	



HYDRAULIC CIRCUITS

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SECTION 9

HYDRAULIC COMPONENTS

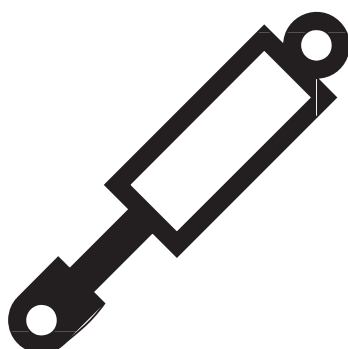
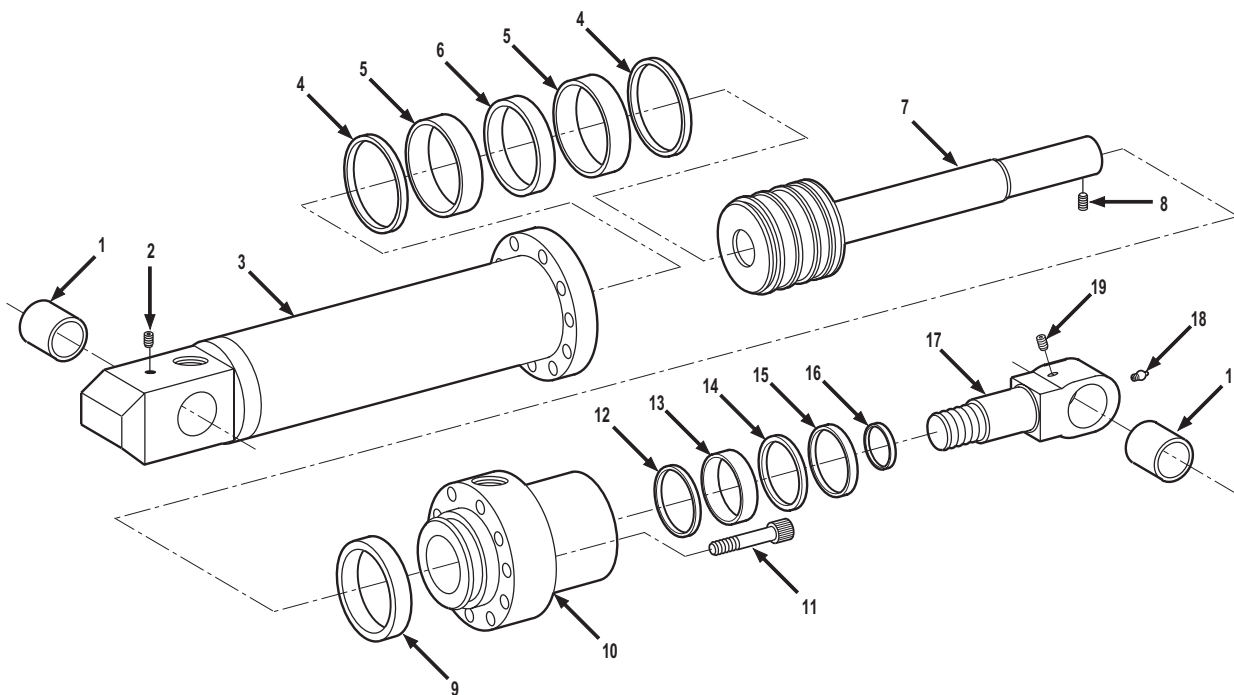




Figure 9-1 Hoist Cylinder Assembly



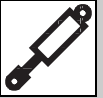
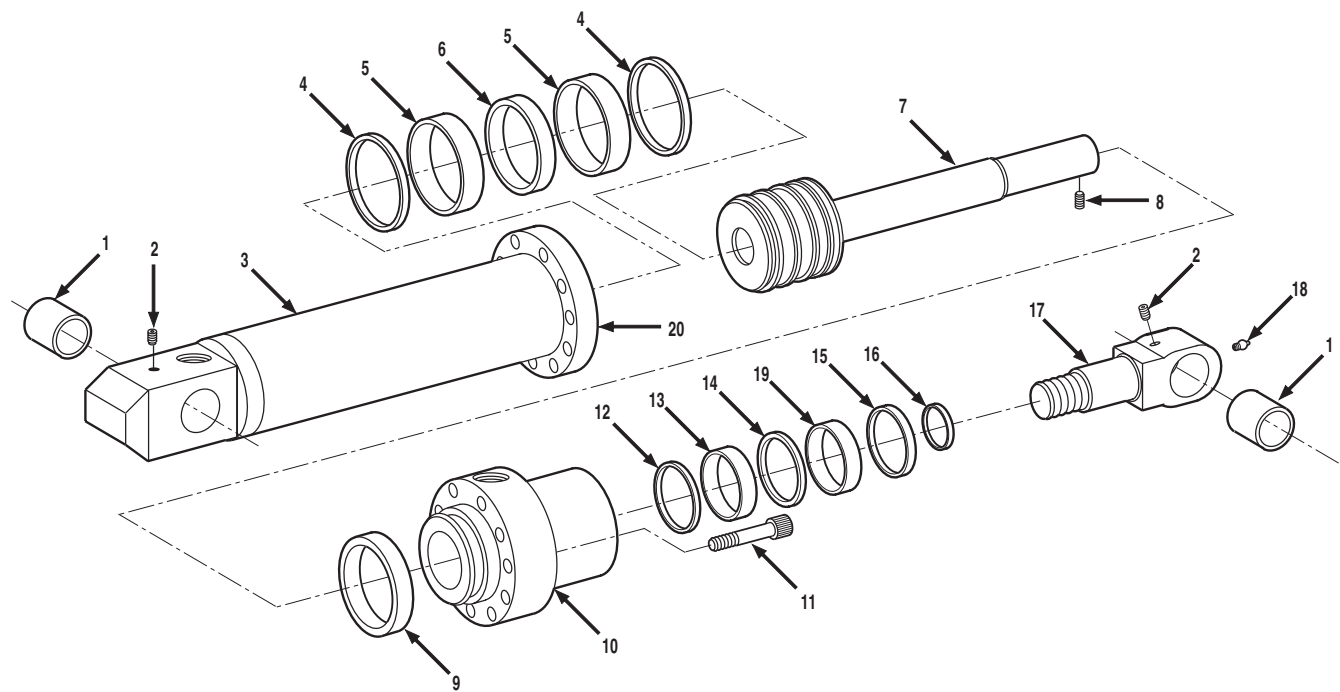


Figure 9-1 Hoist Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80445001	2	HOIST CYLINDER ASSY, (includes all items)	
1	80423042	2	BUSHING	
2	80003453	1	THREADED PLUG	
3	80446005	1	CYLINDER TUBE WELDMENT	
4	80003640	2	INGESTION RING	
5	80003639	2	BEARING	
6	80003638	1	PISTON SEAL	
7	80445003	1	PISTON ROD ASSY	
8	88221386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16x1/2, (use loctite)	
9	80003617	1	STATIC SEAL	
10	80441034	1	CYLINDER HEAD	
11	88211113	9	HEX SOCKET HD CAPSCREW, 1/3-13X3, (loctite & torque to 100-110 lb-ft)	
12	80003672	1	INGESTION RING	
13	80443005	2	BEARING	
14	80443006	1	BUFFER SEAL	
15	80003671	1	ROD SEAL	
16	80443008	1	ROD WIPER	
17	80001126	1	ROD EYE	
18	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
19	88711280	1	HEX SOCKET PIPE PLUG, 1/8	
	80443004	1	PACKING KIT, (includes items 4, 5, 6, 9, 12, 13, 14, 15 & 16)	



Figure 9-1 Hoist Cylinder Assembly



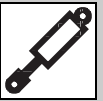


Figure 9-1 Hoist Cylinder Assembly

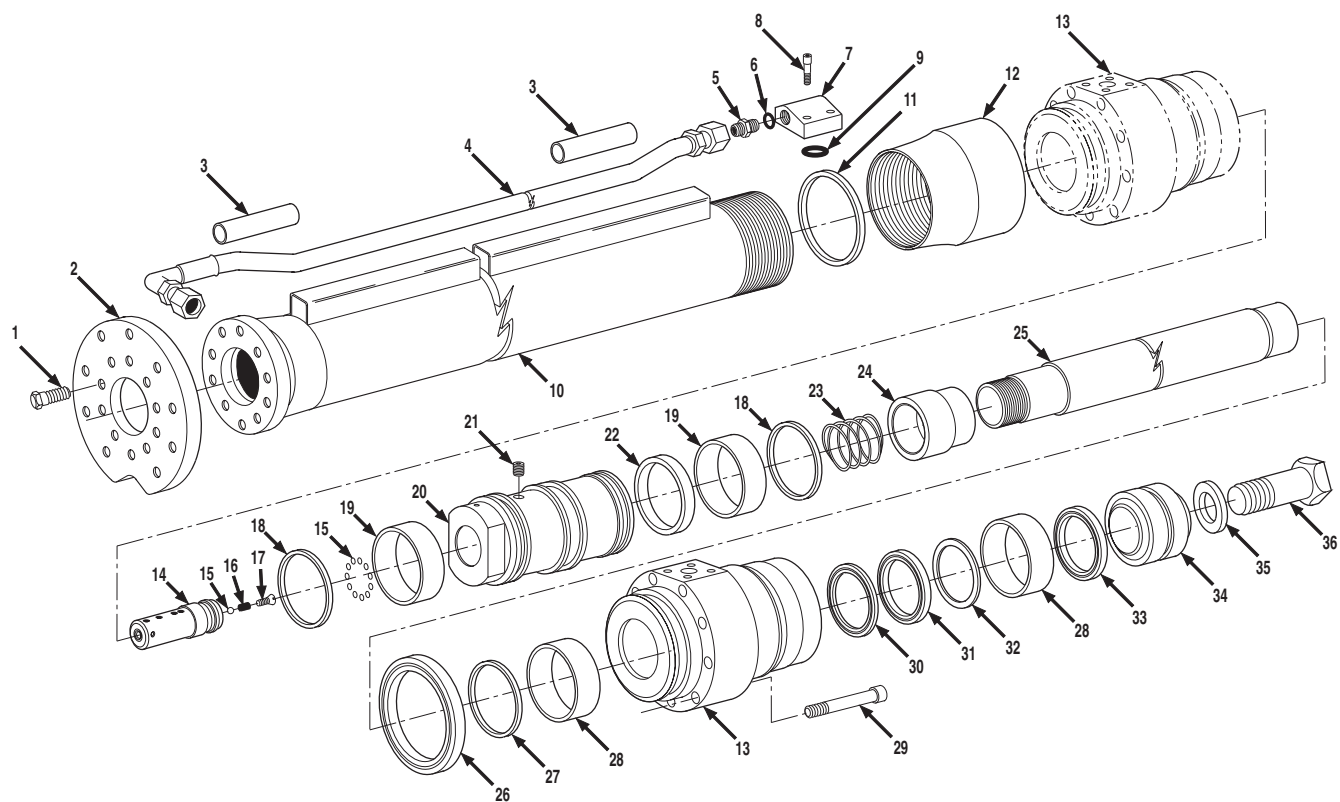
Item	Part Number	Qty.	Description	Rev.
	80005185	2	HOIST CYLINDER ASSY, (includes items 1 thru 18)	
1	83304136	2	BUSHING	
2	80004132	2	THREADED PLUG	
3	80004133	1	CYLINDER TUBE WELDMENT	
4	80004104	2	INGESTION RING	
5	80004105	2	WEAR RING	
6	80004102	1	PISTON SEAL	
7		1	PISTON ROD ASSY	
8	80004085	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16X1/2, (use loctite)	
9	80004103	1	STATIC SEAL	
10	80004134	1	CYLINDER HEAD	
11	80004135	9	HEX SOCKET HD CAPSCREW, 1/3-13X3, (loctite & torque to 100-110 lb-ft)	
12	80004136	1	INGESTION RING	
13	80004137	2	BEARING	
14	80004138	1	BUFFER SEAL	
15	80004139	1	ROD SEAL	
16	80004140	1	ROD WIPER	
17	80004046	1	ROD EYE	
18	80004141	1	LUBE FITTING, STRAIGHT, 1/8	
19	80004142	1	WEAR RING	
20	80004143	1	THREADED COLLAR	
	80004144	AR	PACKING KIT, (includes items 4, 5, 6, 9 & 12 thru 16 & 19)	
	80514085	1	PISTON ROD ASSY, (includes item 7)	



HYDRAULIC COMPONENTS

Before S/N 4210000011

Figure 9-2 Boom Cylinder Assembly



NOTE: SET SCREW, (item 21), REQUIRES LOCTITE #290 TO BE APPLIED FOLLOWING INSTALLATION; THIS IS NECESSARY TO REFRAIN FROM APPLYING LOCTITE TO STEEL BALL, (item 15), OF WHICH, ELEVEN EACH SHOULD BE INSTALLED THROUGH THE SET SCREW HOLE; INSTALL SET SCREW & SCREW IN UNTIL IT COMES INTO CONTACT WITH A STEEL BALL, THEN BACK IT OUT TWO FULL TURNS, THEN APPLY LOCTITE.

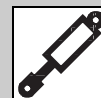
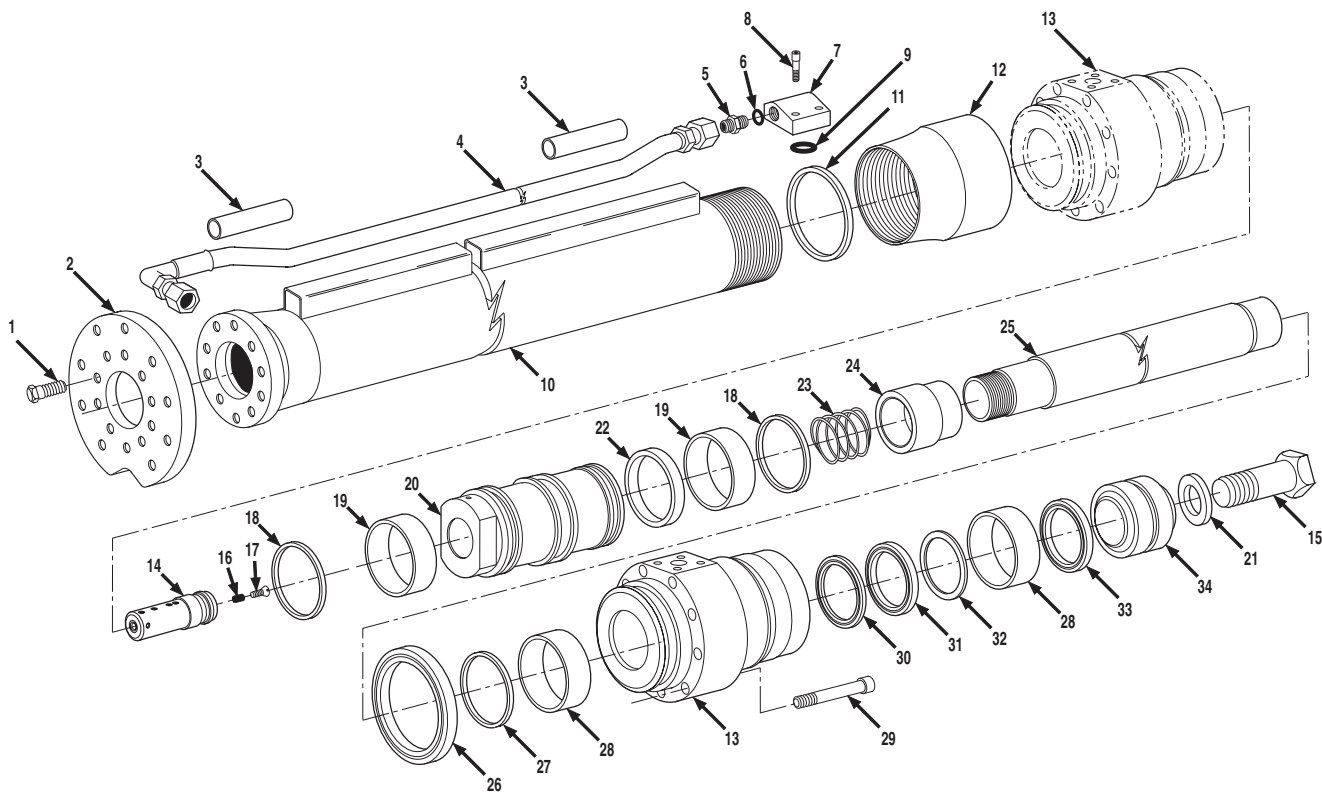


Figure 9-2 Boom Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80425005	1	BOOM CYLINDER ASSY, (includes items 3 thru 36)	
1	80323020	8	HEX FLANGE BOLT, 5/8-11X2, GR8	
2	80321096	1	BOOM CYLINDER MOUNT PLATE	
3	91403528	1	HOSE GUARD	
4	84719751	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	80426017	1	CYLINDER TUBE WELDMENT, (includes items 11 & 12)	
11	80003616	1	STATIC SEAL	
12	80421079	1	THREADED COLLAR	
13	80421078	1	CYLINDER HEAD	
14	80421125	1	CUSHION PLUNGER	
15	80323040	12	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	80221276	1	SOCKET SET SCREW, (flat point),	
22	80003635	1	PISTON SEAL	
23	80423006	1	SPRING	
24	80421137	1	CUSHION BEARING	
25	80421076	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	BACK-UP 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)	
	80223073	AR	PACKING KIT, (includes items 11, 18, 19, 22, 26, 27, 28, 30, 31, 32 & 33)	



Figure 9-2 Boom Cylinder Assembly



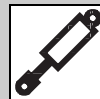
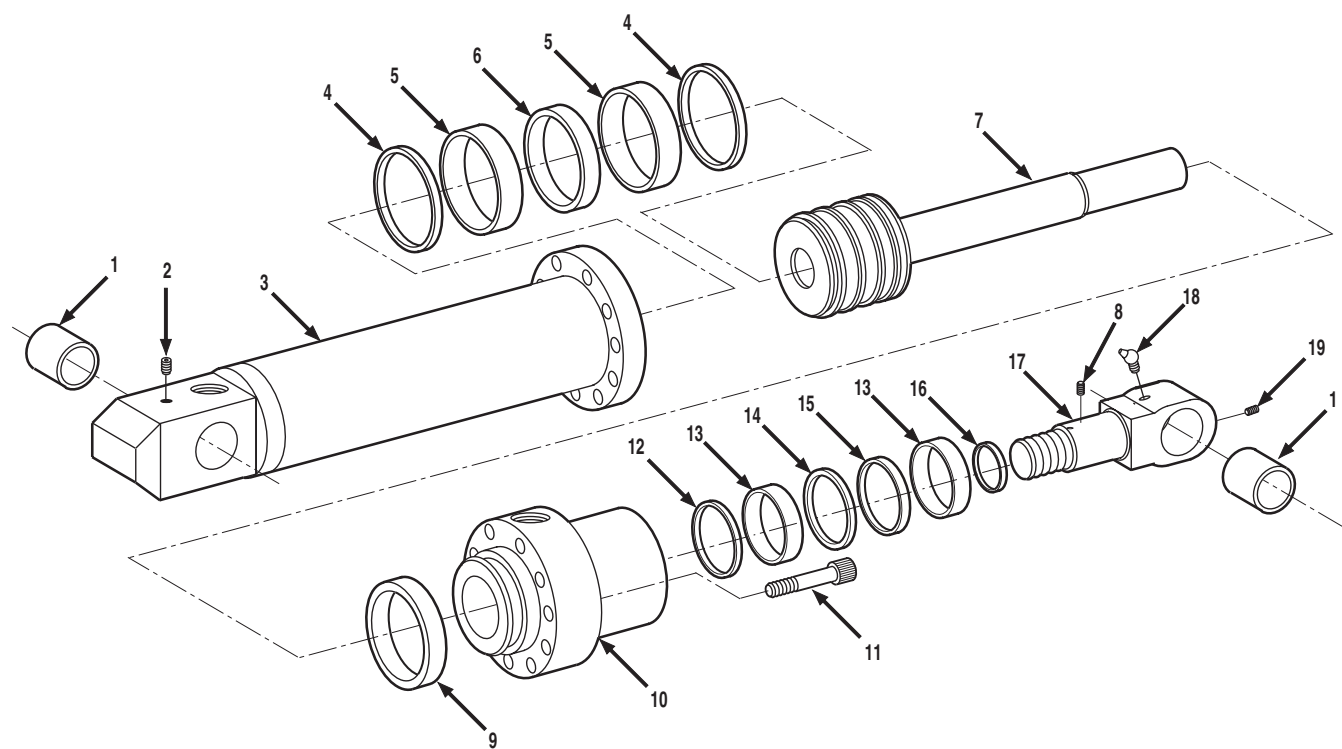


Figure 9-2 Boom Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80425005	1	BOOM CYLINDER ASSY, (includes items 3 thru 36)	
1	80323020	8	HEX FLANGE BOLT, 5/8-11X2, GR8	
2	80321096	1	BOOM CYLINDER MOUNT PLATE	
3	91403528	1	HOSE GUARD	
4	84719751	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	80426017	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	80003634	1	HEX HD CAPSCREW, 1-1/4-12X4, GR8, (loctite & torque to 1400 lb-ft)	
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	80001614	1	WASHER	
22	80003635	1	PISTON SEAL	
23	80423006	1	SPRING	
24	80421137	1	CUSHION BEARING	
25	80421076	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	BACK-UP RING	
33	80003615	1	ROD WIPER	
34	80003633	1	SWIVEL BEARING	
	80223073	AR	PACKING KIT, (includes items 11, 18, 19, 22, 26, 27, 28, 30, 31, 32 & 33)	



Figure 9-3 Tool Cylinder Assembly



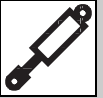
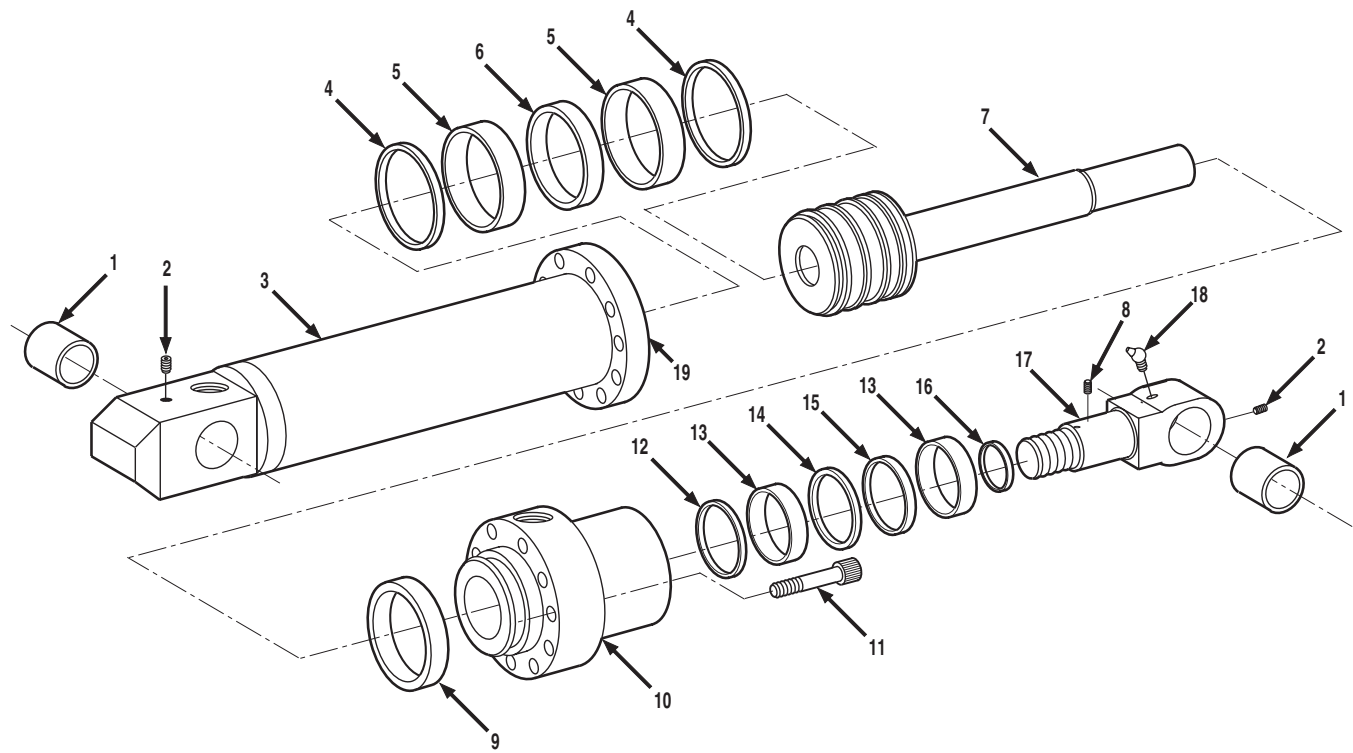


Figure 9-3 Tool Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80425006	1	TOOL CYLINDER ASSY, (includes all items)	
1	80423042	2	BUSHING	
2	80003453	1	HEX SOCKET PIPE PLUG, 1/8	
3	80426012	1	CYLINDER TUBE WELDMENT	
4	80423010	2	INGESTION RING	
5	80423009	2	BEARING	
6	80423011	1	PISTON SEAL	
7	80425011	1	PISTON ROD ASSY	
8	88221386	2	HEX SOCKET SET SCREW, 3/8-16X1/2	
9	80423008	1	STATIC SEAL	
10	80421088	1	CYLINDER HEAD	
11	88211113	10	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	88671016	1	LUBE FITTING, 30 DEGREES, 1/8	
19	88711280	1	HEX SOCKET PIPE PLUG, 1/8	
	80423031	1	PACKING KIT (includes items 4, 5, 6, 9, 12, 13, 14, 15 & 16)	



Figure 9-3 Tool Cylinder Assembly



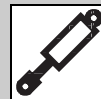
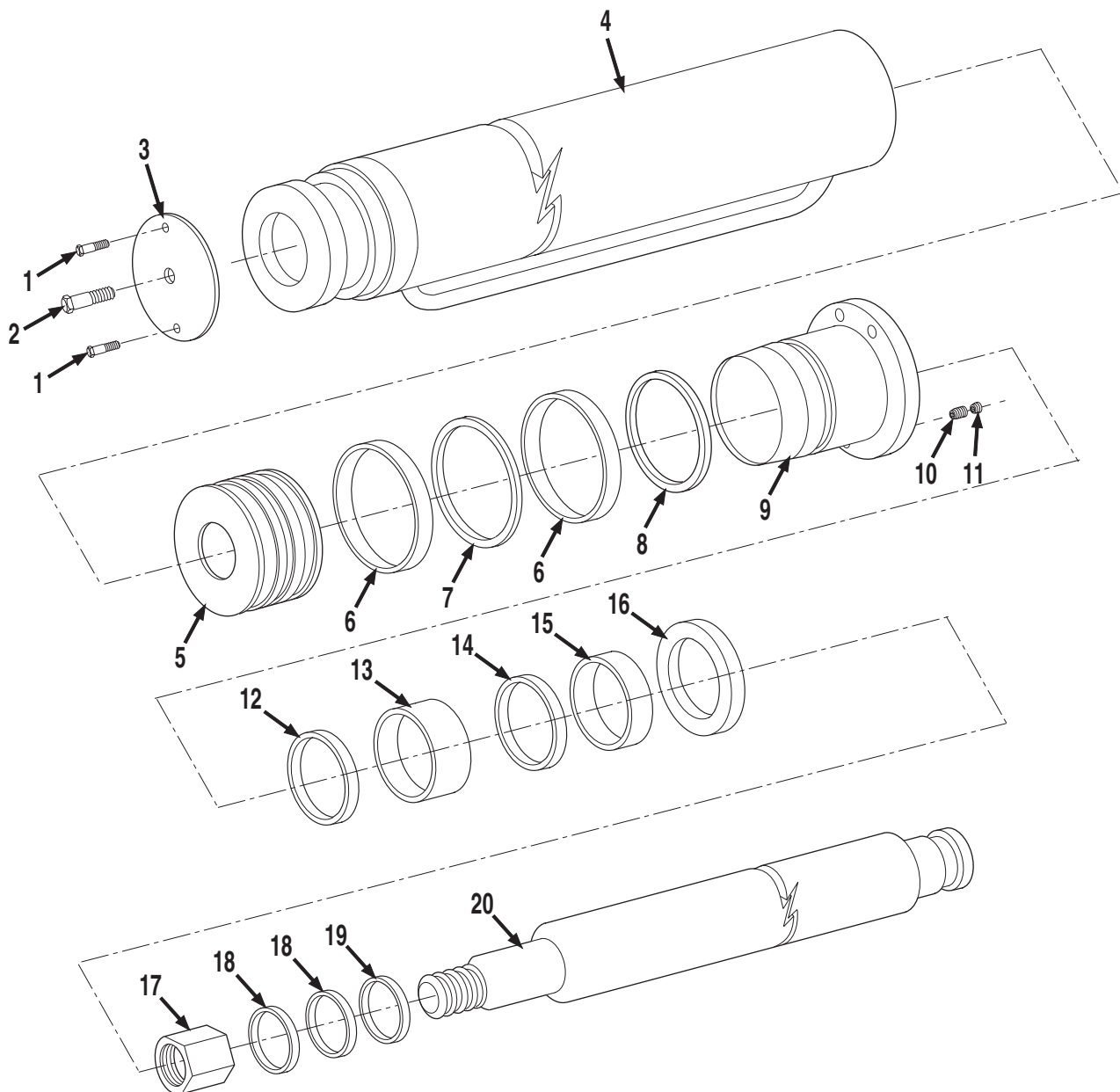


Figure 9-3 Tool Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005186	1	TOOL CYLINDER ASSY, (includes all items)	
1	80004088	2	BUSHING	
2	83304146	2	HEX SOCKET PIPE PLUG, 1/8	
3	80004079	1	CYLINDER TUBE WELDMENT	
4	80004041	2	INGESTION RING	
5	80004145	2	WEAR RING	
6	80004146	1	PISTON SEAL	
7		1	PISTON ROD ASSY	
8	83304131	2	HEX SOCKET SET SCREW, 3/8-16X1/2	
9	80004147	1	STATIC SEAL	
10	80004087	1	CYLINDER HEAD	
11	80004148	10	HEX SOCKET HD CAPSCREW, 1/2-13X3, GR8	
12	80004125	1	INGESTION RING	
13	80004041	2	BEARING	
14	80004126	1	BUFFER SEAL	
15	80004127	1	ROD SEAL	
16	80004129	1	ROD WIPER	
17	80004046	1	ROD EYE	
18	83304046	1	LUBE FITTING, 30 DEGREES, 1/8	
19	80004082	1	THREADED COLLAR	
	80004086	AR	PACKING KIT, (includes items 4, 5, 6, 9 & 12 thru 16)	
	80514088	1	PISTON ROD ASSY, (includes item 7)	



Figure 9-4 Outrigger Cylinder Assembly



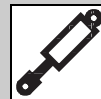
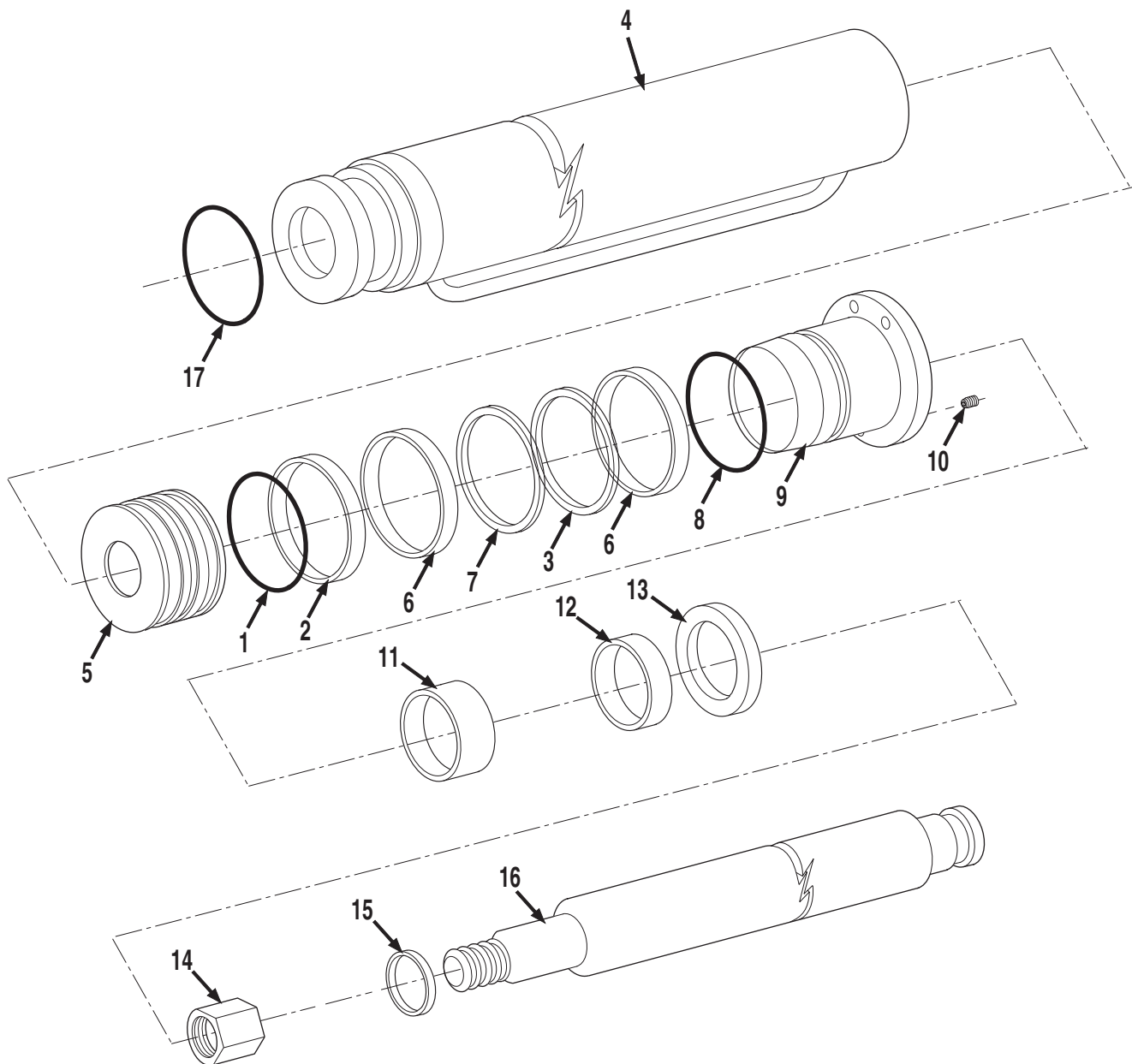


Figure 9-4 Outrigger Cylinder Assembly

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	BACK-UP 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



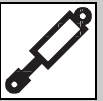
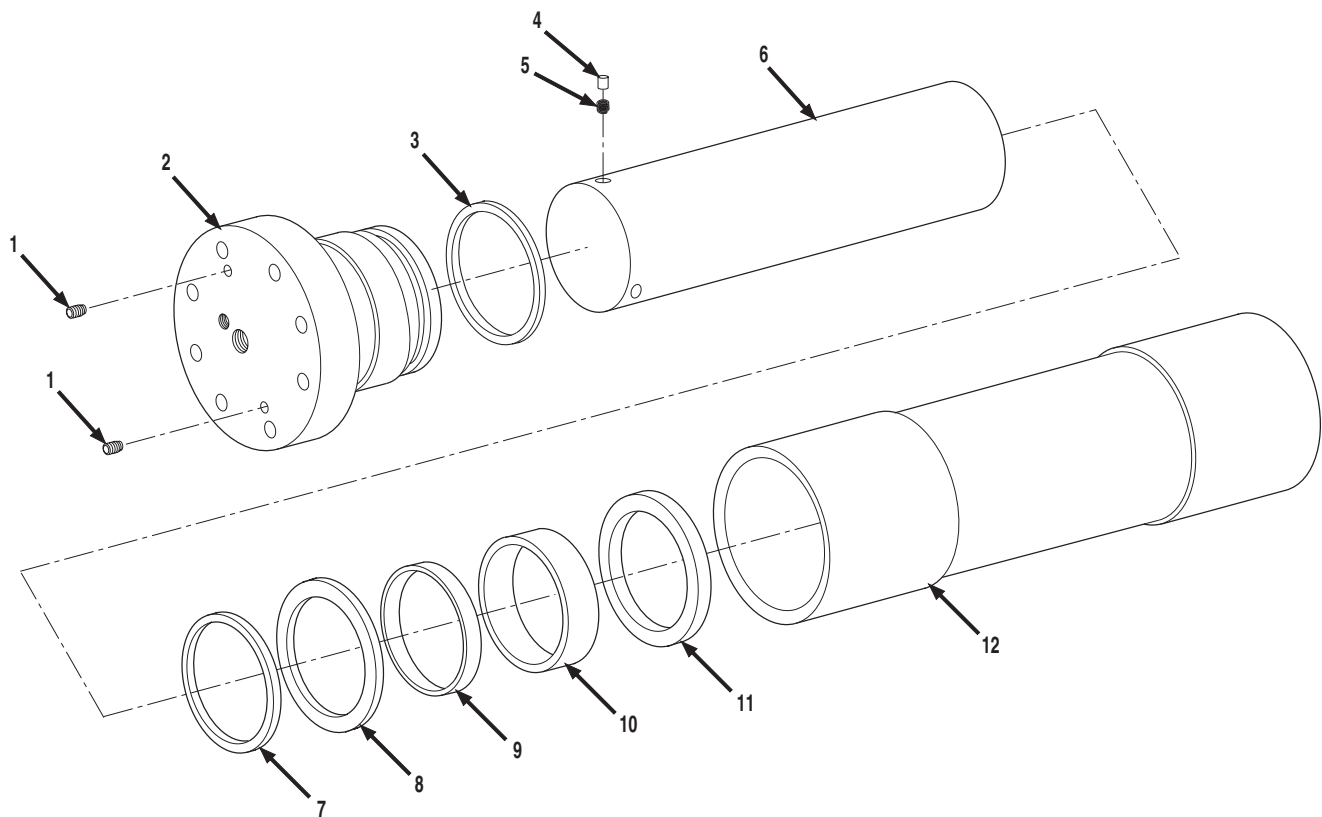


Figure 9-4 Outrigger Cylinder Assembly

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



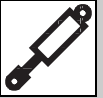


Figure 9-5 Oscillation Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80435008	1	OSCILLATION CYLINDER ASSY, (includes all items)	
1	88221386	2	HEX SOCKET SET SCREW, 5/6-18X3/4, (loctite)	
2	80431030	1	THREADED BOTTOM, (torque to 400-425 lb-ft)	
3	80003628	1	STATIC SEAL	
4	80003718	3	PLASTIC ROD STOP	
5	80003721	3	SPRING	
6	80431031	1	ROD	
7	80433085	1	INGESTION RING	
8	80433084	1	ROD BUFFER SEAL	
9	80433083	1	ROD SEAL	
10	80433082	1	BEARING	
11	80433081	1	ROD WIPER	
12	80431029	1	CYLINDER TUBE WELDMENT	
	80433100	1	PACKING KIT, (includes items 3 & 7 thru 11)	

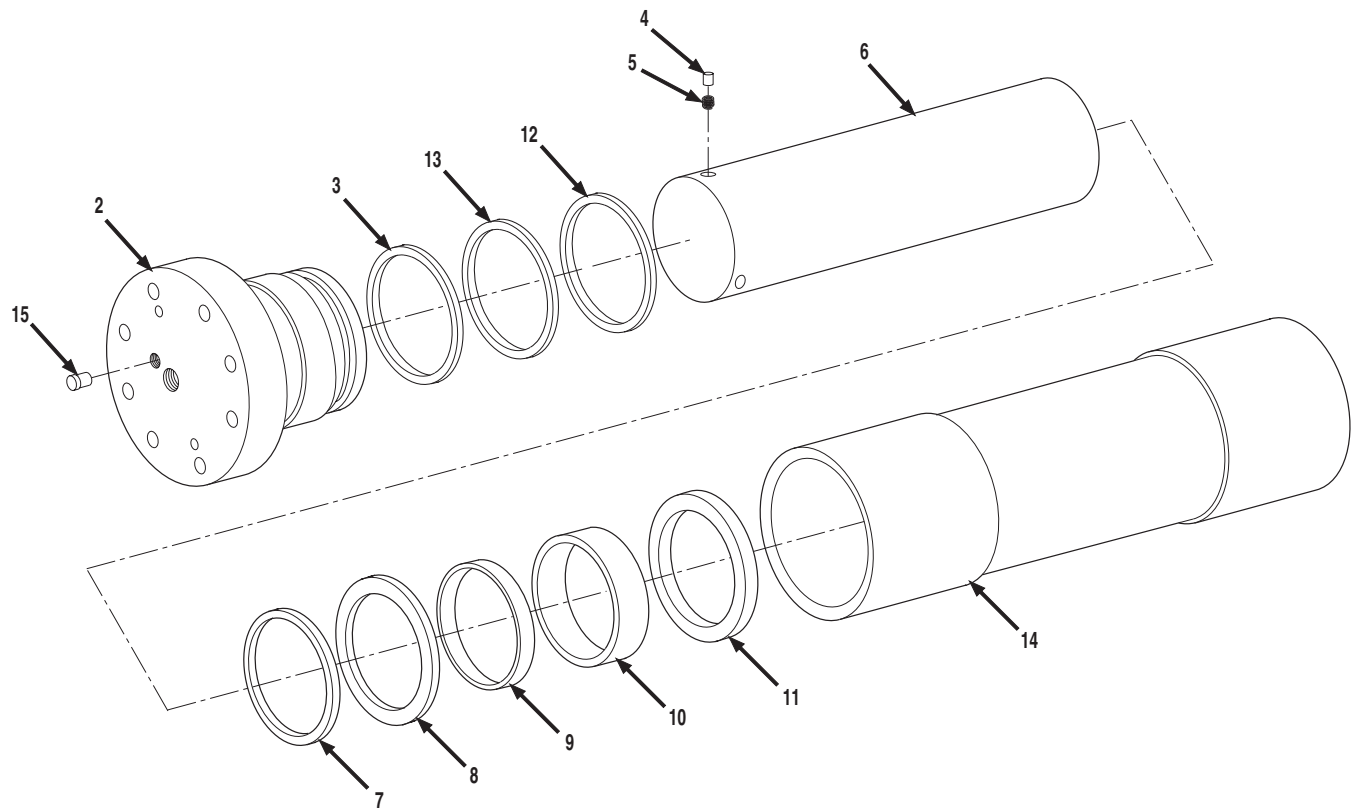


HYDRAULIC COMPONENTS

S/N 0210017758 thru 0210018098
& 4300000029 & After

Figure 9-5 Oscillation Cylinder Assembly

FOR SERVICE ONLY



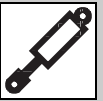


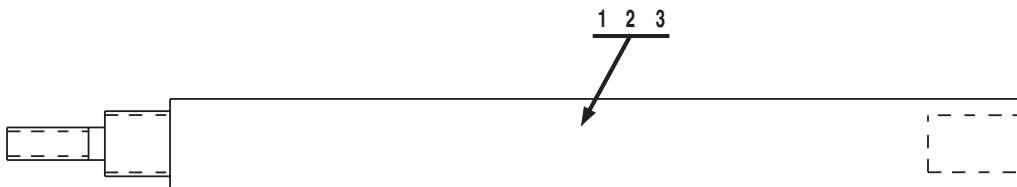
Figure 9-5 Oscillation Cylinder Assembly

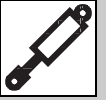
Item	Part Number	Qty.	Description	Rev.
	80005187	1	OSCILLATION CYLINDER ASSY, (includes all items)	
1	80004073	1	PORT PLUG	
2	80004078	1	BASE, (torque to 400 lb-ft)	
3		1	O-RING	
4	80004074	3	PLUG	
5	80004075	3	SPRING	
6	80004077	1	ROD	
7		1	INGRESSION RING	
8		1	BUFFER SEAL	
9		1	ROD SEAL	
10		1	WEAR RING	
11		1	ROD WIPER	
12		1	O-RING	
13		1	BACK-UP RING	
14	80004076	1	CYLINDER TUBE WELDMENT	
15	80004073	1	STEEL PORT PLUG	
	80004071	1	SEAL KIT, (includes items 3 & 7 thru 13)	



HYDRAULIC COMPONENTS

Figure 9-6 Swing Lock Cylinder



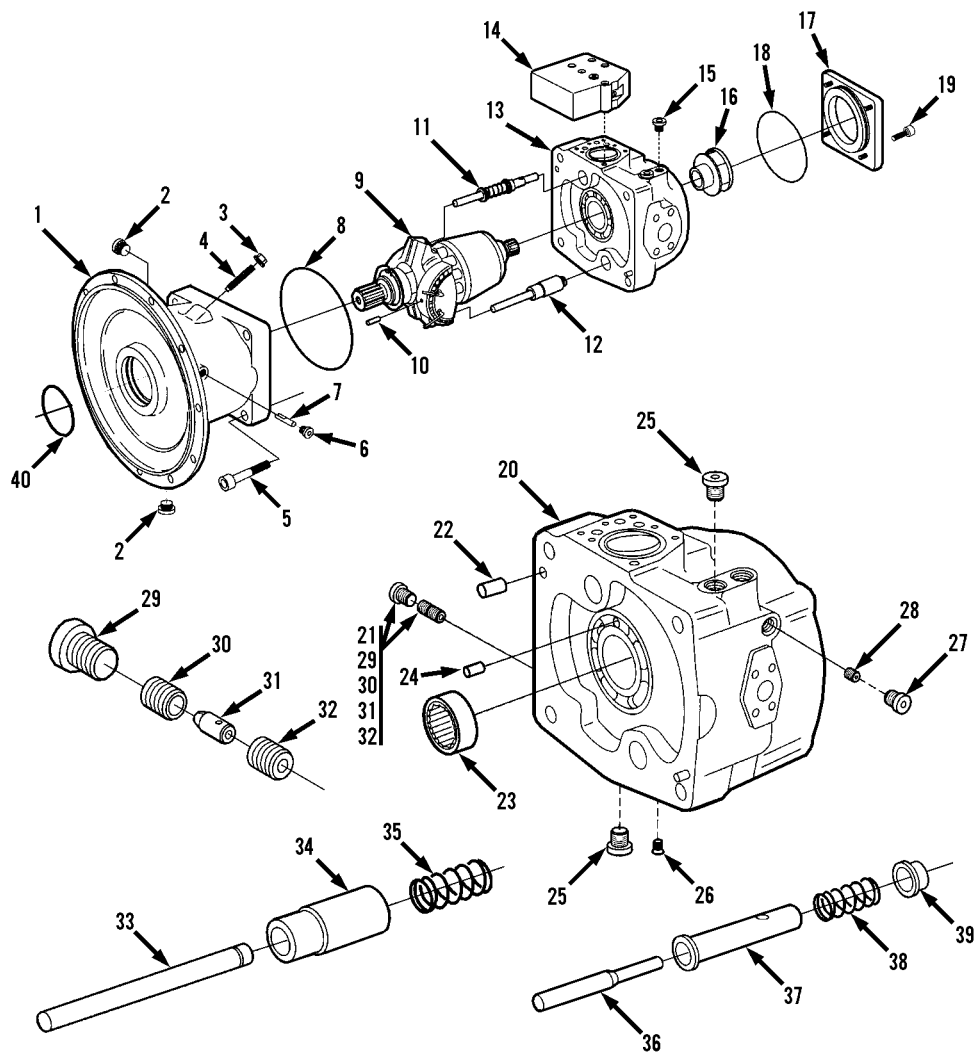
**Figure 9-6 Swing Lock Cylinder**

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	



HYDRAULIC COMPONENTS

Figure 9-7 Main Pump - Front



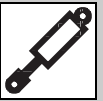


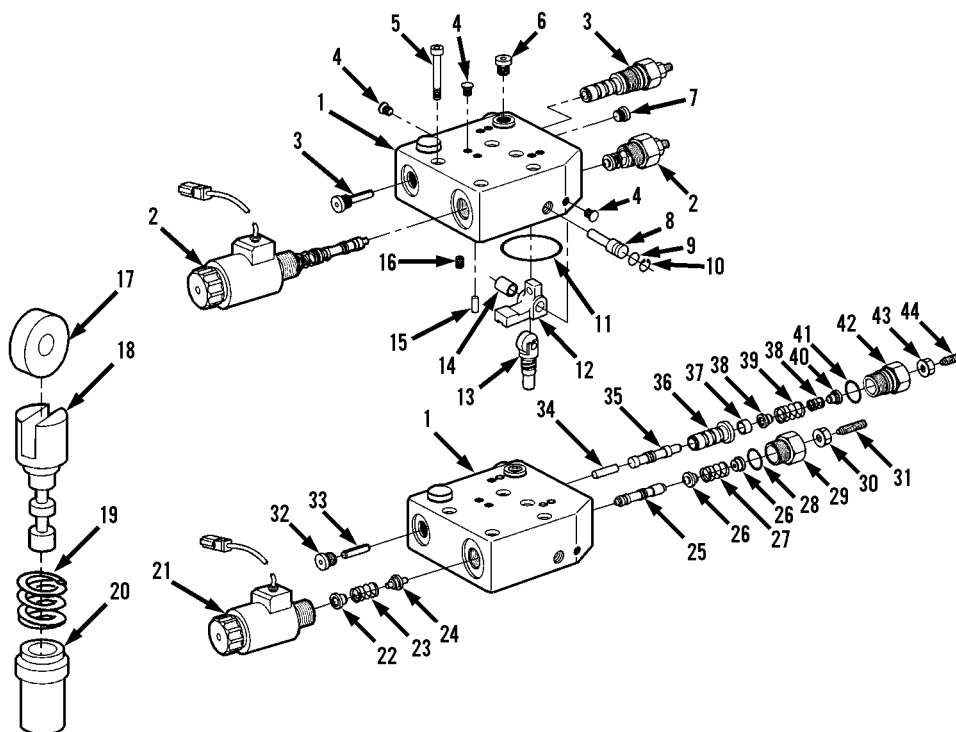
Figure 9-7 Main Pump - Front

Item	Part Number	Qty.	Description	Rev.
	80433014	1	MAIN HYDRAULIC PUMP, (includes all items)	
1	80434167	1	MOTOR FLANGE	
2	80434168	3	LOCKING SCREW	
3	80434169	2	SEAL LOCKNUT	
4	80434170	2	THREADED PIN	
5	80434171	4	SOCKET HD CAPSCREW	
6	80434096	4	LOCKING SCREW	
7	80334064	4	JOINT PIN	
8	80434172	1	O-RING	
9	80434173	1	ROTARY GROUP	
10	80434177	2	CLAMPING PIN	
11	80434174	1	CONTROL, (includes items 36 thru 39)	
12	80434175	1	HYDRAULIC CONTROL, (includes items 33 thru 35)	
13	80434176	1	PORT PLATE w/ACCESSORIES, (includes items 20 thru 28)	
14		Ref	REGULATOR, (see Figure 9-8 for details)	
15	80434109	1	LOCKING SCREW	
16	80434178	1	IMPELLER, (R.H. rotation)	
17	89434179	1	COVER	
18	80434180	1	O-RING	
19	89434181	4	SOCKET HD CAPSCREW	
20	80434182	1	PORT PLATE, BASIC	
21	80434183	1	CONTROL ELEMENT, (includes items 29 thru 32)	
22	80434184	2	CYLINDER PIN	
23	80434185	1	ROLLER BEARING	
24	80434186	1	CYLINDER PIN	
25	80434109	1	LOCKING SCREW	
26	80434111	7	DOUBLE BREAK-OFF PIN	
27	80434187	1	LOCKING SCREW	
28	80934416	1	ORIFICE	
29	80434121	1	LOCKING SCREW	
30	91404057	1	THROTTLE SCREW	
31	80434188	1	THROTTLE PIN	
32	91404055	1	THROTTLE SCREW	
33		AR	RETURN ROD	
		AR	RETURN ROD	
		AR	RETURN ROD	
		AR	RETURN ROD	
34		1	RETURN PISTON	
35		1	PRESSURE SPRING	
36		AR	ROD, (134.7)	
		AR	ROD, (134.9)	
		AR	ROD, (135.1)	
		AR	ROD, (135.3)	
37		1	POSITIONING PISTON	
38		1	PRESSURE SPRING	
39		1	BUSHING	
40	80434089	1	SHAFT SEAL	
	80434166	1	SEAL KIT, (includes items 2, 3, 6, 8, 14, 25, 27, 29, 31 & designated items on Figure 9-8)	



HYDRAULIC COMPONENTS

Figure 9-8 Main Pump - Rear



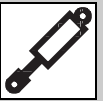


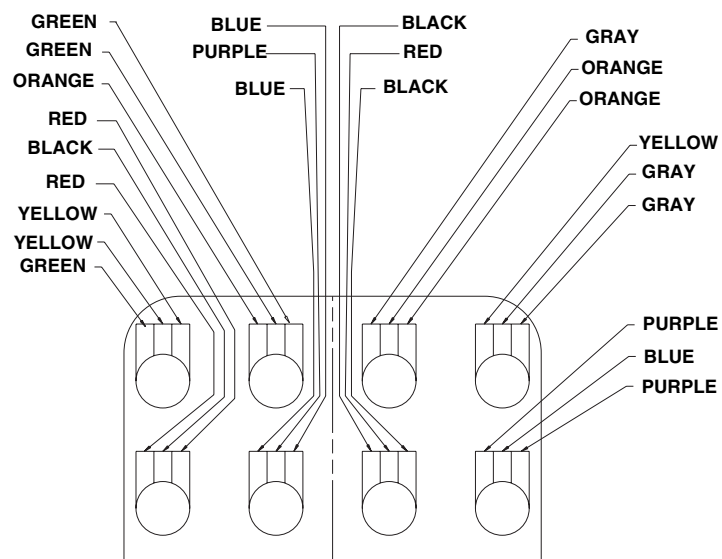
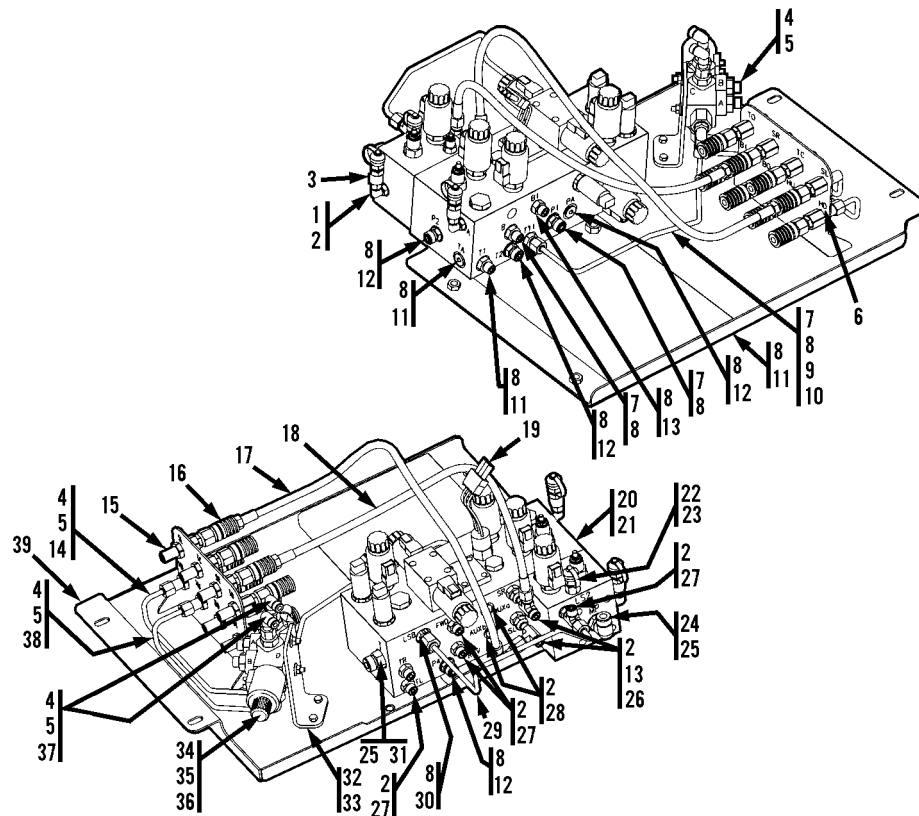
Figure 9-8 Main Pump - Rear

Item	Part Number	Qty.	Description	Rev.
	80434189	1	REGULATOR ASSY, (includes items 1 thru 17)	
1	80434190	1	REGULATOR HOUSING	
2	80434191	1	CONTROL ELEMENT, (includes items 21 thru 31)	
3	80434192	1	CONTROL ELEMENT, (includes items 32 thru 44)	
4	80434111	9	DOUBLE BREAK-OFF PIN	
5	80434122	5	SOCKET HD CAPSCREW	
6	80434109	2	LOCKING SCREW	
7	80434113	3	QUAD BONDET RING	
8	80434194	1	BEARING BOLT	
9	80434125	1	O-RING	
10	80434194	1	RETAINING RING	
11	80434195	1	O-RING	
12	80434196	1	MEASURING PISTON w/ACCESSORIES, (includes items 17 thru 20)	
13	80434197	1	ANGLE LEVER	
14	80334084	1	BEARING BUSHING	
15	80434127	2	CYLINDER PIN	
16	80434109	1	ORIFICE	
17	80434198	1	ROLLER	
18	80434199	1	MEASURING PISTON	
19	80434200	1	PRESSURE SPRING	
20	80434201	1	SETTING BUSHING	
21	80434202	1	PROPORTIONAL SOLENOID	
22	80434203	1	SPRING COLLAR	
23	80434204	1	PRESSURE SPRING	
24	80434205	1	SPRING BOLT	
25	80434206	1	CONTROL PISTON	
26	80434207	2	SPRING BOLT	
27	80434208	1	PRESSURE SPRING	
28	80434209	1	O-RING	
29	80434210	1	LOCKING SCREW	
30	80434211	1	SEALING LOCKNUT	
31	80434212	1	THREADED PIN	
32	80434213	1	LOCKING SCREW	
33	80434214	1	CONTROL PISTON	
34	80434215	1	CONTROL PISTON	
35	80434216	1	PISTON	
36	80434217	1	CONTROL BUSHING	
37	80434218	1	BUSHING	
38	80434219	2	SPRING BOLT	
39	80434220	1	PRESSURE SPRING	
40	80434221	1	PRESSURE SPRING	
41	80434209	1	O-RING	
42	80434223	1	LOCKING SCREW	
43	80434211	1	SEALING LOCKNUT	
44	80434225	1	THREADED PIN	
	80434166	1	SEAL KIT, (includes items 6, 7, 11, 28, 30, 33, 42, 44 & designated items on Figure 9-7)	



HYDRAULIC COMPONENTS

Figure 9-9 Pilot Manifold Valve Tray



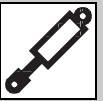


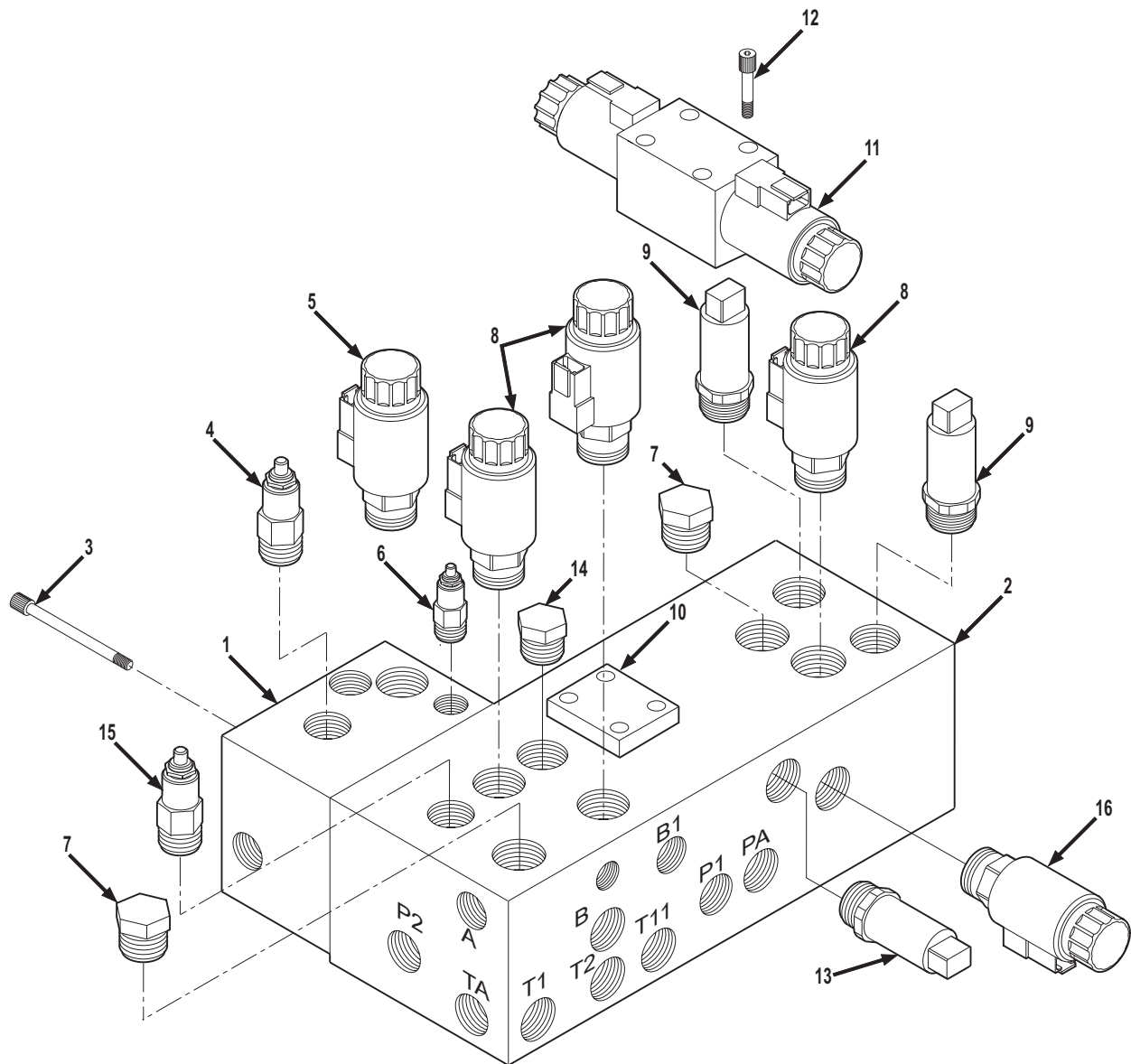
Figure 9-9 Pilot Manifold Valve Tray

Item	Part Number	Qty.	Description	Rev.
1	88662062	2	ELBOW, 90 DEGREES, (includes item 2)	
2	88591202	19	O-RING	
3	91143177	2	MINI-CHECK COUPLING	
4	88662532	6	CONNECTOR, (includes item 5)	
5	88591207	19	O-RING	
6	80363088	1	QUICK-DISCONNECT DECAL	
7	88662471	3	CONNECTOR, (includes item 8)	
8	88591204	12	O-RING	
9	80433088	1	TUBE ASSY	
10	88662489	1	ELBOW, 90 DEGREES, (includes item 8)	
11	88662192	3	HEX SOCKET HD PLUG, (includes item 8)	
12	88662301	3	CONNECTOR, (includes item 8)	
13	88662300	7	CONNECTOR, (includes item 2)	
14	80433087	1	TUBE ASSY	
15	80333051	8	BULKHEAD NIPPLE	
16	80333050	8	BULKHEAD COUPLER	
17	84719560	1	HOSE ASSY	
18	84719450	1	HOSE ASSY	
19	80333100	1	SWITCH	
20		Ref	PILOT MANIFOLD ASSY, (see Figure 9-10 for details)	
21	80263012	4	WHIZ-LOK BOLT, 1/4-20x1/2	
22	91053020	1	MINI-CHECK COUPLING, (includes item 23)	
23	91054002	1	VITON O-RING, (lubricate lightly)	
24	88662330	1	ELBOW, 90 DEGREES, (includes item 25)	
25	88591205	2	O-RING	
26	80233259	1	SWIVEL NUT RUN TEE	
27	88662345	7	RUN TEE, (includes item 2)	
28	88662190	2	HEX SOCKET HD PLUG, (includes item 2)	
29	80433190	1	TUBE ASSY	
30	80233297	1	CHECK FITTING, (includes item 8)	
31	88662302	1	CONNECTOR, (includes item 25)	
32	80431054	1	DIVERter VALVE BRACKET	
33	88201002	2	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
34	88201009	2	HEX HD CAPSCREW, 1/4-20X2, GR5	
35	77143013	2	WHIZ-LOK NUT, 1/4-20	
36		Ref	DIVERter VALVE ASSY, (see Figure 9-34 for details)	
37	88662370	2	ELBOW, 90 DEGREES, (swivel nut)	
38	80433086	1	TUBE ASSY	
39	80436001	1	VALVE TRAY WELDMENT	



HYDRAULIC COMPONENTS

Figure 9-10 Pilot Manifold



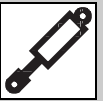


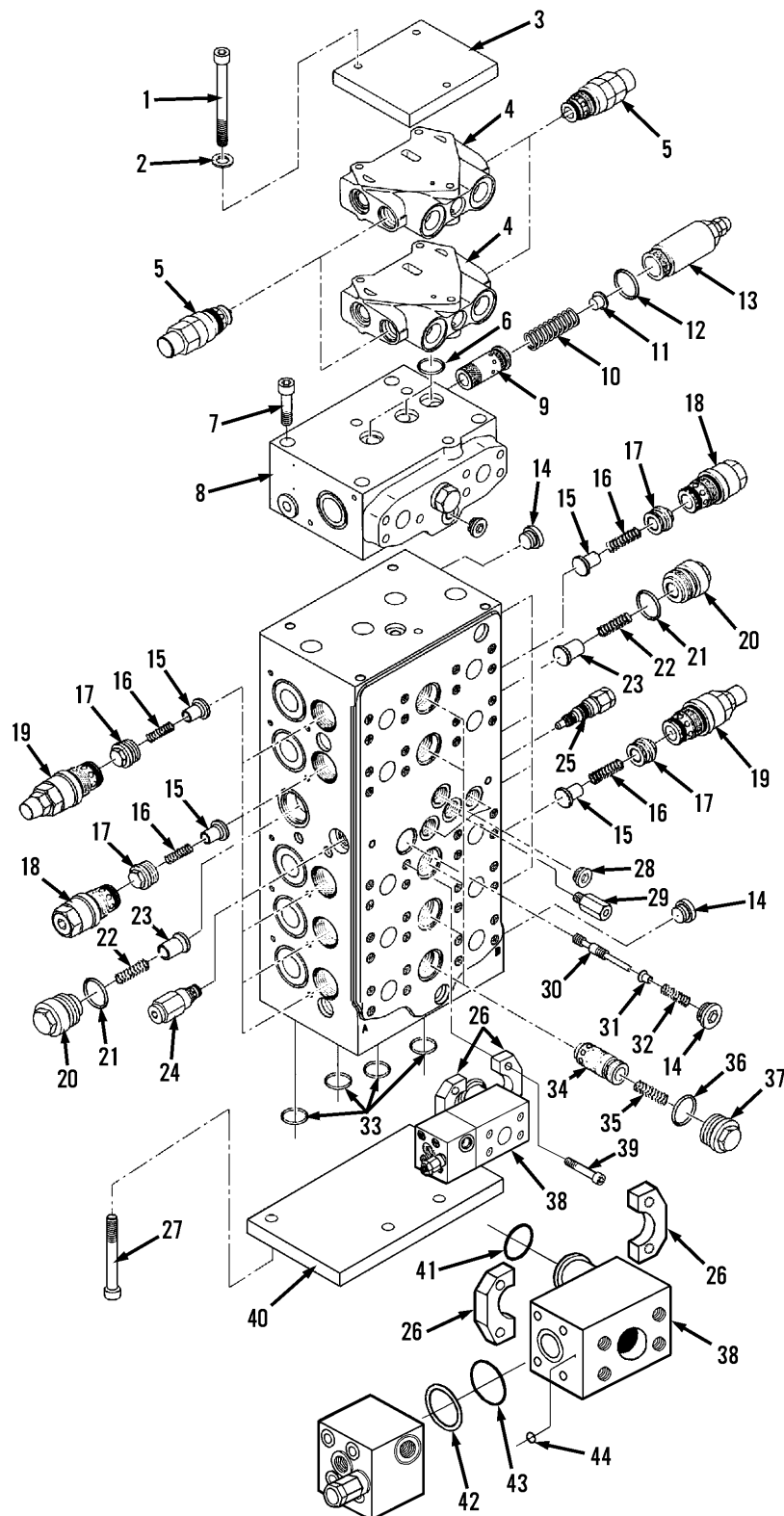
Figure 9-10 Pilot Manifold

Item	Part Number	Qty.	Description	Rev.
	80433142	1	PILOT MANIFOLD, (includes all items)	
1	80434153	1	MANIFOLD BLOCK, (small)	
2	80434154	1	MANIFOLD BLOCK, (large)	
3	80434137	4	SOCKET HD CAPSCREW	
4	80434138	1	PRESSURE REDUCING VALVE	
	80434139	1	PRESSURE REDUCING VALVE SEAL KIT	
5	80434155	1	TWO-WAY VALVE	
	80434156	1	TWO-WAY VALVE SEAL KIT	
6	80434157	1	PRESSURE RELIEF VALVE	
	80434158	1	PRESSURE RELIEF VALVE SEAL KIT	
7	80334097	2	CHECK VALVE	
	80434151	2	CHECK VALVE SEAL KIT	
8	80434145	3	THREE-WAY VALVE	
	80434144	3	THREE-WAY VALVE SEAL KIT	
9	80334362	2	PROPORTIONAL REDUCING VALVE	
	80434144	2	PROPORTIONAL REDUCING VALVE SEAL KIT	
10	80434147	1	COVER PLATE	
	80434148	1	COVER PLATE SEAL KIT	
11	80434159	1	FOUR-WAY VALVE	
	80434160	1	FOUR-WAY VALVE SEAL KIT	
12	80434161	4	SOCKET HD CAPSCREW	
13	80434162	1	PROPORTIONAL REDUCING VALVE	
	80434163	1	PROPORTIONAL REDUCING VALVE SEAL KIT	
14	80434149	1	SHUTTLE VALVE	
	80434150	1	SHUTTLE VALVE SEAL KIT	
15	80434142	1	PRESSURE RELIEF VALVE	
	80434143	1	PRESSURE RELIEF VALVE SEAL KIT	
16	80434164	1	THREE-WAY VALVE	
	80434165	1	THREE-WAY VALVE SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-11 Main Hydraulic Control Valve



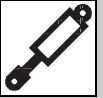


Figure 9-11 Main Hydraulic Control Valve

Item	Part Number	Qty.	Description	Rev.
	80433012	1	MAIN HYDRAULIC CONTROL VALVE, (includes all items on Figures 9-11 thru 9-13)	
1	80334151	3	SOCKET HD CAPSCREW, (M12X 1.75 X130), GR12.9, (lubricate & torque to 41 lb-ft), (auxiliary only)	
	83191057	3	SOCKET HD CAPSCREW, (M12X 1.75 X80), 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	80334522	1	O-RING	
7	80334155	4	SOCKET HD CAPSCREW, (lubricate & torque to 52 lb-ft)	
8		Ref	HOUSING, (see Figure 9-13 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	TWO-STAGE PORT RELIEF VALVE ASSY, (see Figure 9-14 for seal kit), (lubricate & torque to 74 lb-ft)	
19	80334166	9	RELIEF & ANTI-CAVITATION VALVE ASSY, (see Figure 9-14 for seal kit), (lubricate & torque to 74 lb-ft)	
20	80334167	2	LOCKING SCREW, (lubricate & torque to 102 lb-ft)	
21		2	O-RING	
22	80334171	2	COMPRESSION SPRING	
23	80334170	2	CONE	
24	80334174	1	LOAD SENSE BLEED SCREW	
25	80334358	1	LOAD SENSE RELIEF VALVE ASSY, (see Figure 9-14 for seal kit)	
26	84712737	2	FLANGE HALF	
27	80334183	4	SOCKET HD CAPSCREW, (loctite & torque to 52 lb-ft)	
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	80334607	1	ANTI-DRIFT VALVE	
39	80334180	2	SOCKET HD CAPSCREW	
40	80334182	1	PLATE	
41	80334538	1	O-RING	
42		1	THRUST RING	



HYDRAULIC COMPONENTS

Figure 9-11 Main Hydraulic Control Valve (Continued)

Item	Part Number	Qty.	Description	Rev.
43	80334543	1	O-RING	
44	80334546	3	O-RING	
	80334157	1	SEAL KIT, (includes item 6), (see Figure 9-12 for details)	
	80334198	1	SEAL KIT, (includes items 21, 33, 36 & designated items on Figures 9-12 & 9-13)	
	80334199	1	SEAL KIT, (includes item 12 & designated items on Figure 9-13)	
	80334435	1	SEAL KIT, (includes items 6 & 41 thru 44)	

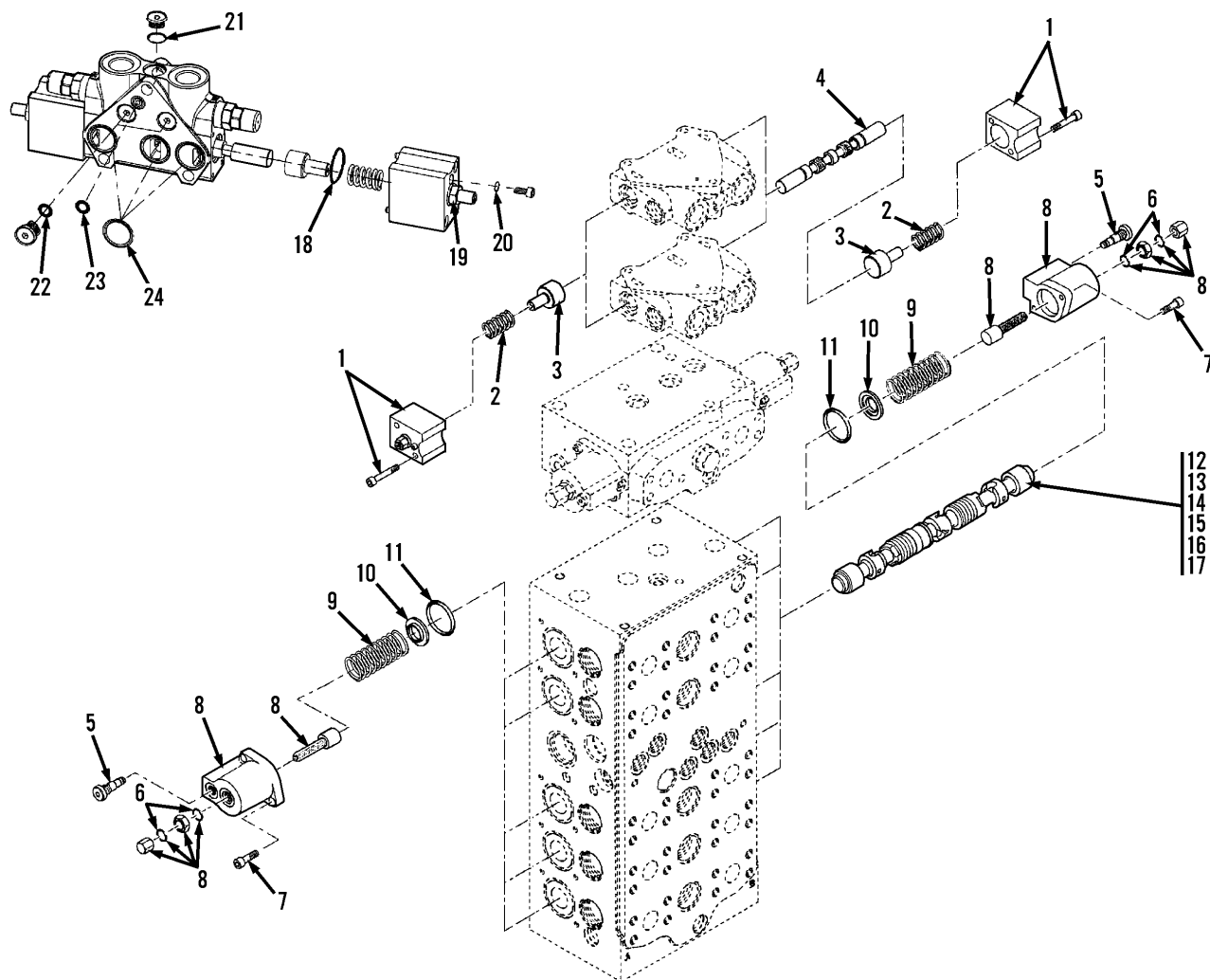
Figure 9-11 Main Hydraulic Control Valve (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-12 Main Hydraulic Control Valve - Spools & End Caps



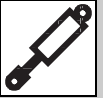


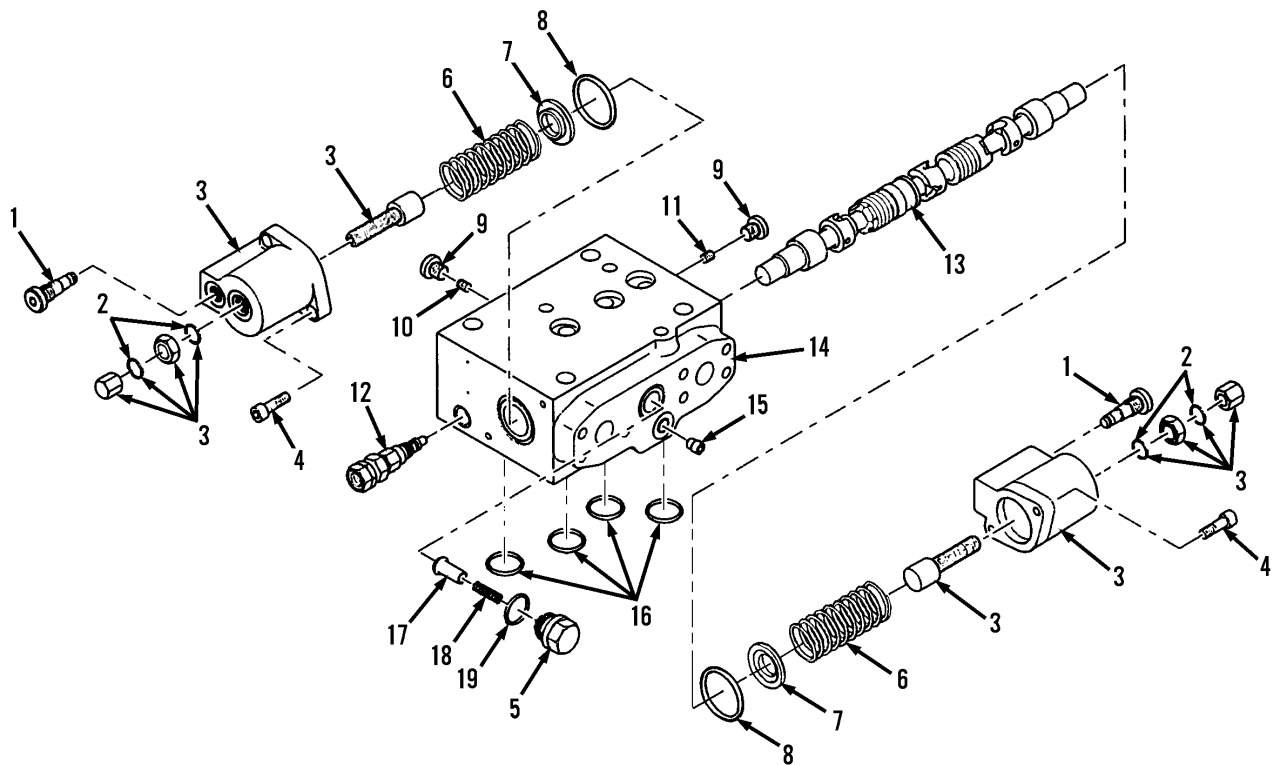
Figure 9-12 Main Hydraulic Control Valve - Spools & End Caps

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	10	THROTTLE VALVE	
6		24	THRUST RING	
7	80334196	24	SOCKET HD CAPSCREW	
8	80334195	12	COVER ASSY	
9	80434053	12	COMPRESSION SPRING	
10	80334366	12	SPRING RETAINER	
11	80334545	12	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		2	O-RING	
19		2	HEX NUT	
20		2	SEALING RING	
21		1	O-RING	
22		2	O-RING	
23		1	O-RING	
24	80334522	3	O-RING	
	80334157	1	SEAL KIT, (includes items 18 thru 24)	
	80334198	1	SEAL KIT, (includes item 11 & designated items on Figures 9-11 & 9-13)	



HYDRAULIC COMPONENTS

Figure 9-13 Main Hydraulic Control Valve - Swing Section



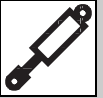


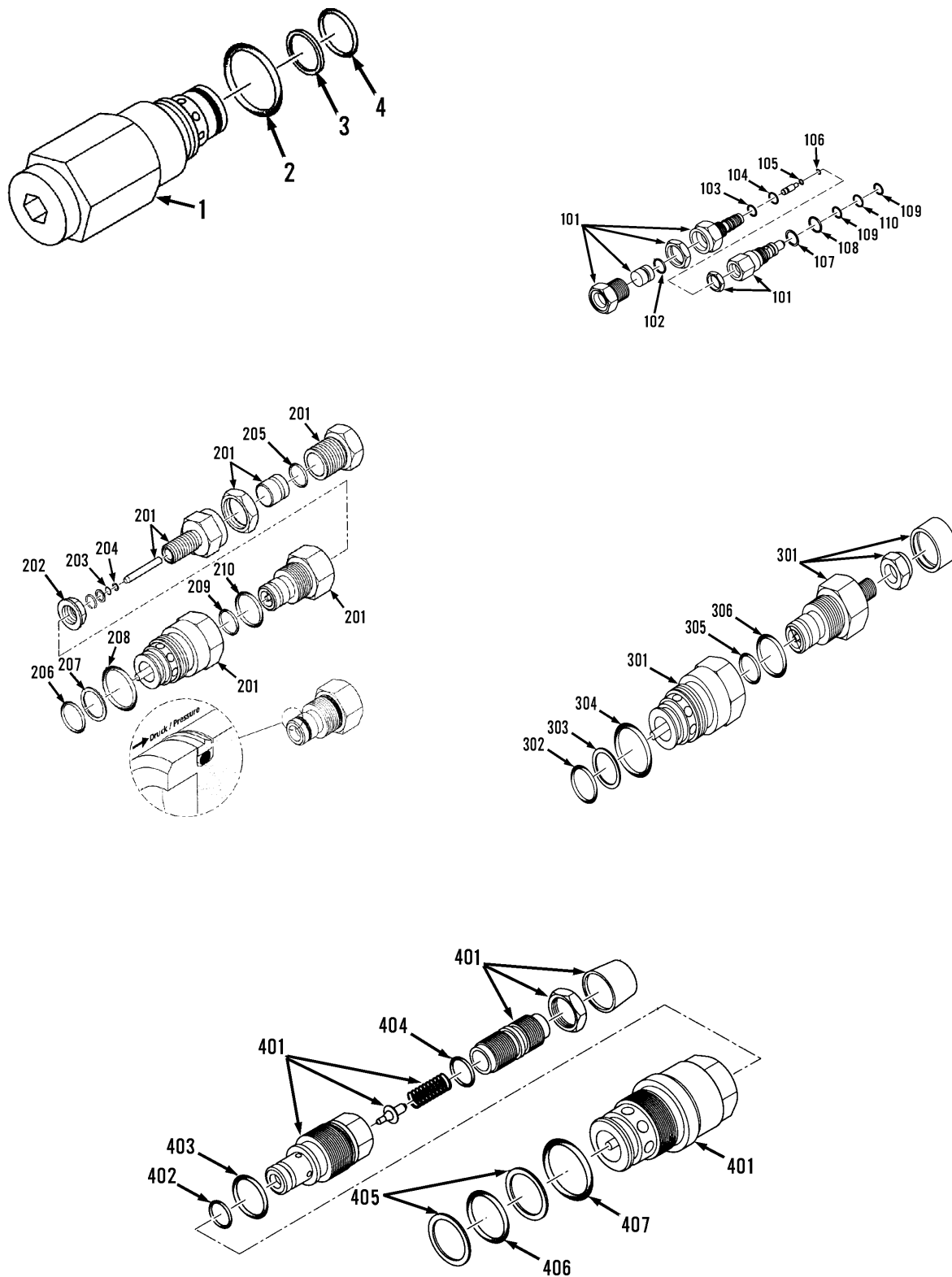
Figure 9-13 Main Hydraulic Control Valve - Swing Section

Item	Part Number	Qty.	Description	Rev.
1	80334365	2	THROTTLE VALVE	
2		1	THRUST RING	
3	80334195	2	COVER ASSY	
4	80334196	4	SOCKET HD CAPSCREW	
5	80334215	1	LOCKING SCREW	
6	80334053	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	80334173	1	RELIEF & ANTI-CAVITATION VALVE ASSY, (see Figure 9-14 for seal kit), (lubricate & torque to 74 lb-ft)	
13		1	SWING SPOOL	
14	80434152	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	
	80334157	1	SEAL KIT, (see Figure 9-12 for details)	
	80334198	1	SEAL KIT, (includes item 7 & designated items on Figures 9-11 & 9-12)	
	80334199	1	SEAL KIT, (includes items 8, 9, 16, 19 & designated items on Figure 9-11)	



HYDRAULIC COMPONENTS

Figure 9-14 Main Hydraulic Control Valve - Seal Kits



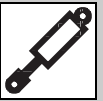


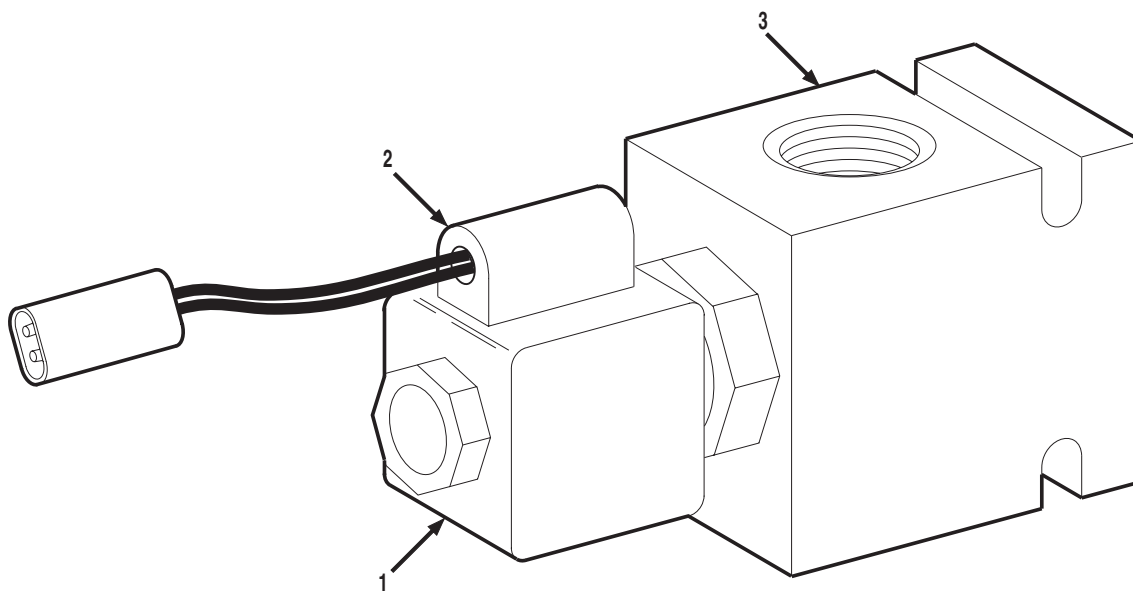
Figure 9-14 Main Hydraulic Control Valve - Seal Kits

Item	Part Number	Qty.	Description	Rev.
1	80334369	1	LOAD SENSE BLEED SCREW SEAL KIT, (includes items 2 thru 4)	
2		Ref	LOAD SENSE BLEED SCREW, (see Figure 9-11, item 24 for details)	
3	80334528	1	O-RING	
4		1	THRUST RING	
		1	O-RING	
101	80334217	1	LOAD SENSE RELIEF SEAL KIT, (includes items 102 thru 110)	
102		Ref	LOAD SENSE RELIEF VALVE ASSY, (see Figure 9-11, item 25 for details)	
103	80334548	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 VALVE SEAL KIT, (includes items 202 thru 210)	
202		Ref	TWO-STAGE PORT RELIEF VALVE ASSY, (see Figure 9-11, item 18 for details)	
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 ASSY, (see Figure 9-11, item 5 for details)	
303	80334526	1	O-RING	
304		1	THRUST RING	
305	80334535	1	O-RING	
306		1	O-RING	
		1	O-RING	
401	80334219	1	RELIEF VALVE ANTI-CAVITATION SEAL KIT, (includes items 402 thru 407)	
402		Ref	RELIEF VALVE ANTI-CAVITATION ASSY, (see Figure 9-11, item 19, for details)	
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

Figure 9-15 Cold Start Valve



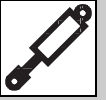


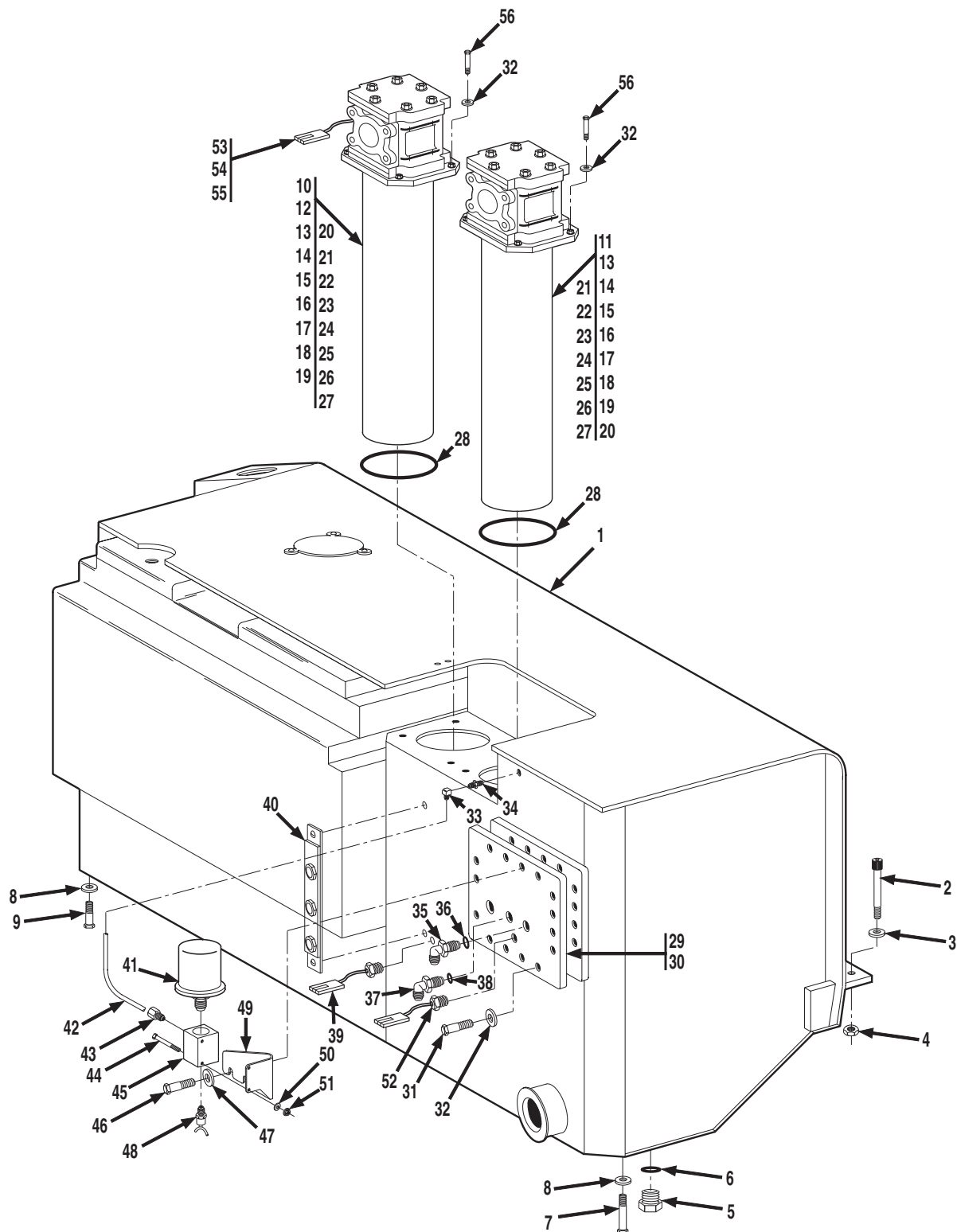
Figure 9-15 Cold Start Valve

Item	Part Number	Qty.	Description	Rev.
	80473050	1	COLD START VALVE, (includes all items)	
1	80474023	1	CARTRIDGE	
2	80474024	1	COIL	
3		1	VALVE BODY	
	80934004	1	SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-16 Reservoir Assembly



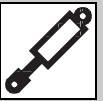


Figure 9-16 Reservoir Assembly

Item	Part Number	Qty.	Description	Rev.
1	80476001	1	RESERVOIR WELDMENT	
2	88212258	3	SOCKET HD CAPSCREW, 5/8-11X2, GR8	
3	88551153	3	LOCKWASHER, 5/8	
4	88521010	4	HEX LOCKNUT, 5/8-11	
5	88662180	1	HEX PLUG, (includes item 6)	
6	88591210	1	O-RING	
7	88201104	2	HEX HD CAPSCREW, 5/8-11X3-3/4, GR5	
8	88561008	3	FLAT WASHER, 5/8	
9	88201099	1	HEX HD CAPSCREW, 5/8-11X2-1/2, GR5	
10	80473029	1	IN-LINE FILTER ASSY, (includes items 12 thru 28, 53, 54, 55 & 57)	
11	80473030	1	IN-LINE FILTER ASSY, (includes item 13 thru 27 & 28)	
12	80474001	1	ELECTRICAL INDICATOR, (35 PSI)	
13	80274015	6	O-RING, (bowl, diverter & cover)	
14	80474002	2	BOWL	
15	80273008	2	ELEMENT, (10 micron)	
16	80474003	2	FLANGE	
17	80474004	8	FLANGE BOLT, (zinc)	
18	80474005	2	FLANGE O-RING	
19	80474006	2	COVER	
20	80474007	2	ALUMINUM HEAD	
21	80474008	12	SCREW w/WASHER, 5/16-18X1	
22	80474009	12	SCREW, 5/16-18	
23	80474010	4	SS SCREW, (indicator port)	
24	80474011	2	BYPASS ASSY, (35 PSI)	
25	80384388	12	STATO-SEAL SCREW	
26	88591141	2	MOUNT FLANGE O-RING	
27	80474012	4	INDICATOR SWITCH SCREW, (lubricate & torque to 32-38 lb-ft)	
28	80473042	2	O-RING	
29	80471104	1	COVER PLATE	
30	14404857	AR	GASKET COMPOUND	
31	88201036	14	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
32	88551011	22	LOCKWASHER, 3/8	
33	86983649	1	BRASS ELBOW, 90 DEGREES	
34	80383147	1	TUBE FITTING, STRAIGHT, 1/4X3/8 TUBE	
35	88662332	1	ELBOW, 90 DEGREES, (includes item 36)	
36	88591207	1	O-RING	
37	80433047	1	ELBOW, 90 DEGREES, (includes item 38)	
38	88591205	1	O-RING	
39	80933061	1	HYDRAULIC LEVEL PROBE	
40	80373052	1	FLUID LEVEL GAUGE	
41	80933068	1	BREATHER	
42		10"	NYLON HOSE, 3/8	
43	80383142	1	TUBE FITTING, STRAIGHT, 3/8X3/8 TUBE	
44	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
45	80473049	1	MANIFOLD BREATHER	
46	88201036	2	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
47	90027470	2	HARDENED WASHER, 3/8	
48	80973044	1	DRAIN VALVE	
49	80471060	1	BREATHER BRACKET	



HYDRAULIC COMPONENTS

Figure 9-16 Reservoir Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.
50	88561002	2	FLAT WASHER, 1/4	
51	77143013	2	WHIZ-LOK NUT, 1/4-20	
52	80963220	1	HYDRAULIC TEMPERATURE SENDER	
53	80963060	1	SHROUD	
54	80963069	3	MALE PIN	
55	80963067	3	SEAL	
56	88201035	8	HEX HD CAPSCREW, 3/8-16X1, GR5	

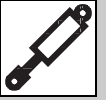


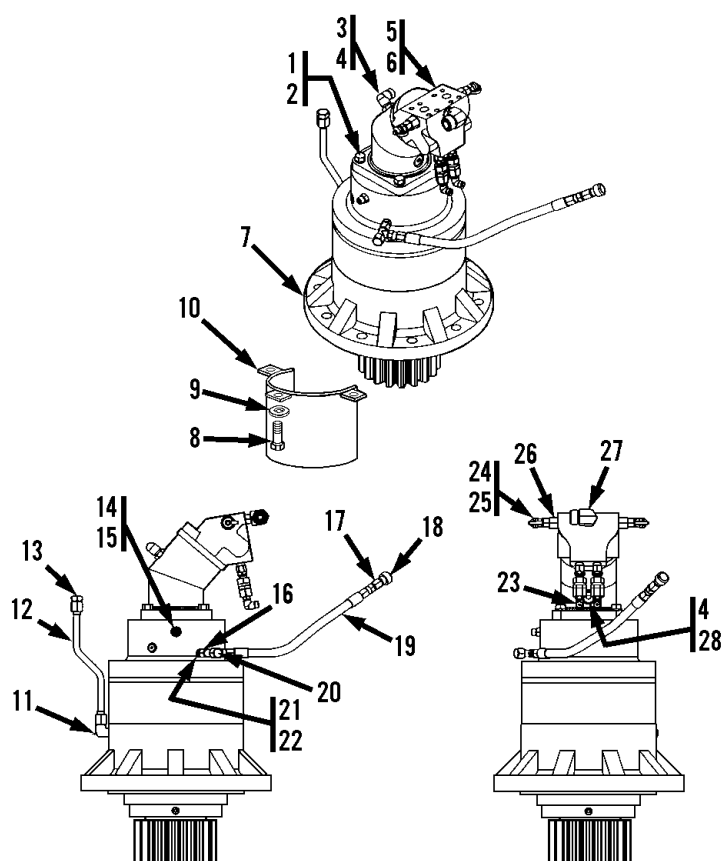
Figure 9-16 Reservoir Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-17 Swing Transmission Installation



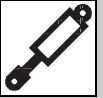


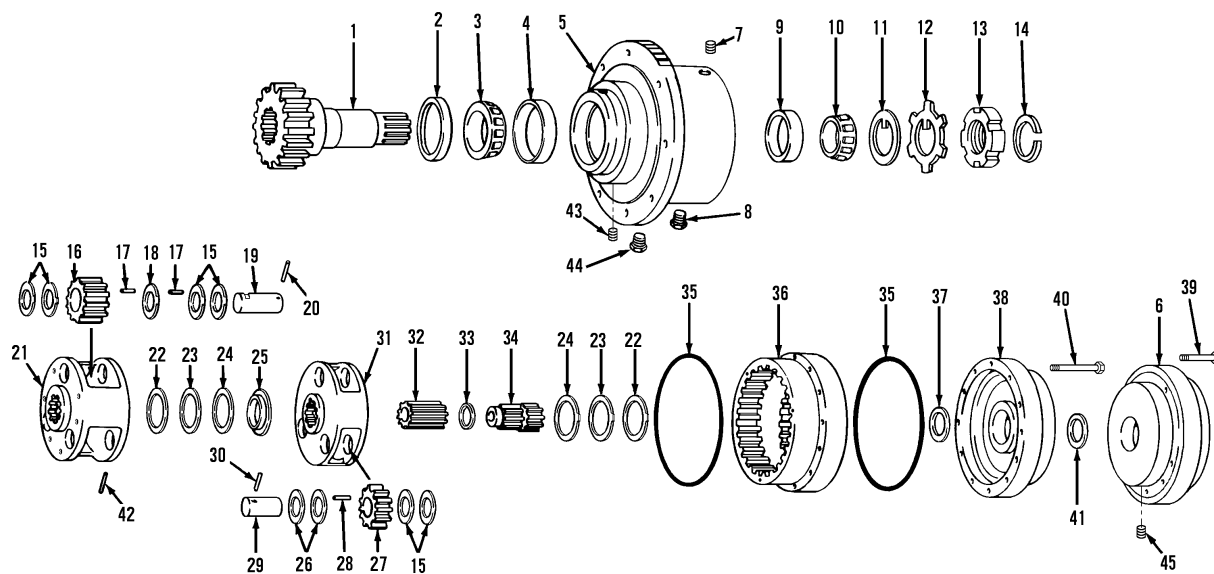
Figure 9-17 Swing Transmission Installation

Item	Part Number	Qty.	Description	Rev.
	80445002	1	SWING TRANSMISSION INSTALLATION, (includes all items)	
1	88201068	4	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5, (lubricate & torque to 68-78 lb-ft)	
2	88551013	4	LOCKWASHER, 1/2	
3	88662330	1	ELBOW, 90 DEGREES, (includes item 4)	
4	88591205	2	O-RING	
5		Ref	SWING MOTOR, (see Figure 9-19 for details)	
6	80243021	1	O-RING	
7		Ref	SWING TRANSMISSION, (see Figure 9-18 for details)	
8	88201035	3	HEX HD CAPSCREW, 3/8-16X1, GR5	
9	88551011	3	LOCKWASHER, 3/8	
10	80423012	1	PINION GUARD	
11	88661112	1	MALE ELBOW, 90 DEGREES, 3/8X1/2 TUBE	
12	80343003	1	TUBE ASSY	
13	88661385	1	CAP PLUG	
14	88662300	1	CONNECTOR, (includes item 15)	
15	88591202	1	O-RING	
16	88662239	1	SWIVEL NUT RUN TEE	
17	80243019	1	ADAPTER	
18	77343070	1	VENT	
19	84717889	1	HOSE ASSY	
20	88661364	1	CAP PLUG	
21	88662005	1	CONNECTOR, (includes item 22)	
22	88591204	1	O-RING	
23	80233255	2	ELBOW, 90 DEGREES, (includes o-ring)	
24	77133089	2	MINI-CHECK COUPLING, (includes item 25)	
25	83763056	2	VITON O-RING, (lubricate lightly)	
26	80433144	2	CONNECTOR, (includes o-ring)	
27	80433152	1	ELBOW, 90 DEGREES, (includes o-ring)	
28	88662193	1	HEX HD PLUG, (includes item 4)	



HYDRAULIC COMPONENTS

Figure 9-18 Swing Transmission



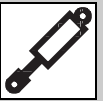


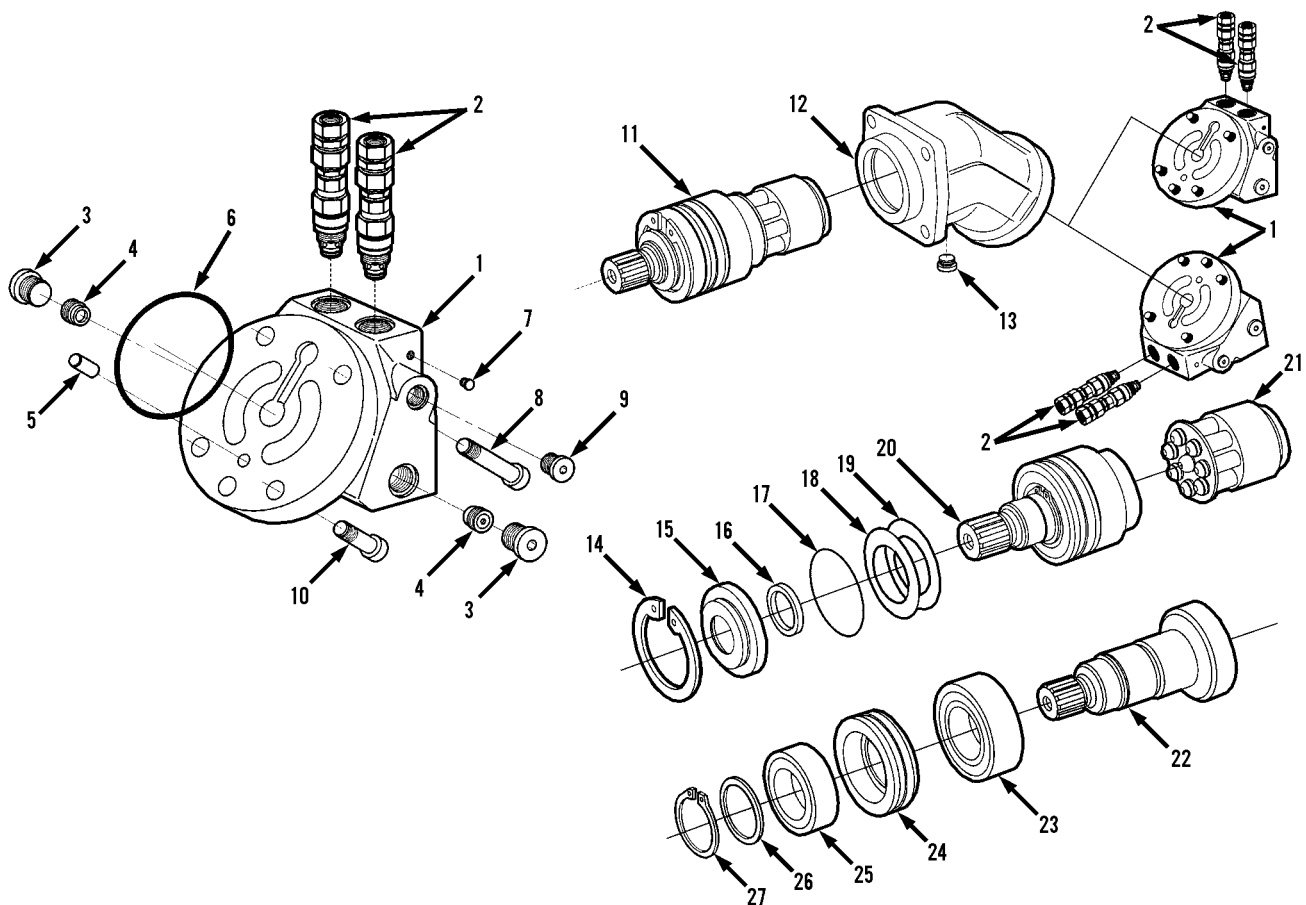
Figure 9-18 Swing Transmission

Item	Part Number	Qty.	Description	Rev.
	80443002	1	SWING TRANSMISSION, (includes all items)	
1	80244012	1	OUTPUT SHAFT	
2	77144002	1	OIL SEAL	
3	77344006	1	BEARING CONE	
4	77344007	1	BEARING CUP	
5	80404004	1	HOUSING	
6		Ref	SWING BRAKE, (see Figure 9-20 for details)	
7	77124007	1	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	SPRING 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	80404005	1	INPUT GEAR	
35	77124024	2	O-RING	
36	77344017	1	RING GEAR	
37	80404006	1	THRUST WASHER	
38	80404007	1	INPUT COVER	
39	80404008	4	SOCKET HD CAPSCREW	
40	77344019	24	BOLT	
41	80404010	1	RETAINING RING	
42	90202517	3	ROLL PIN	
43	80404013	2	PIPE PLUG	
44	80404011	2	MAGNETIC PLUG	
45	80404012	2	PIPE PLUG, (includes o-ring)	



HYDRAULIC COMPONENTS

Figure 9-19 Swing Motor



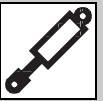


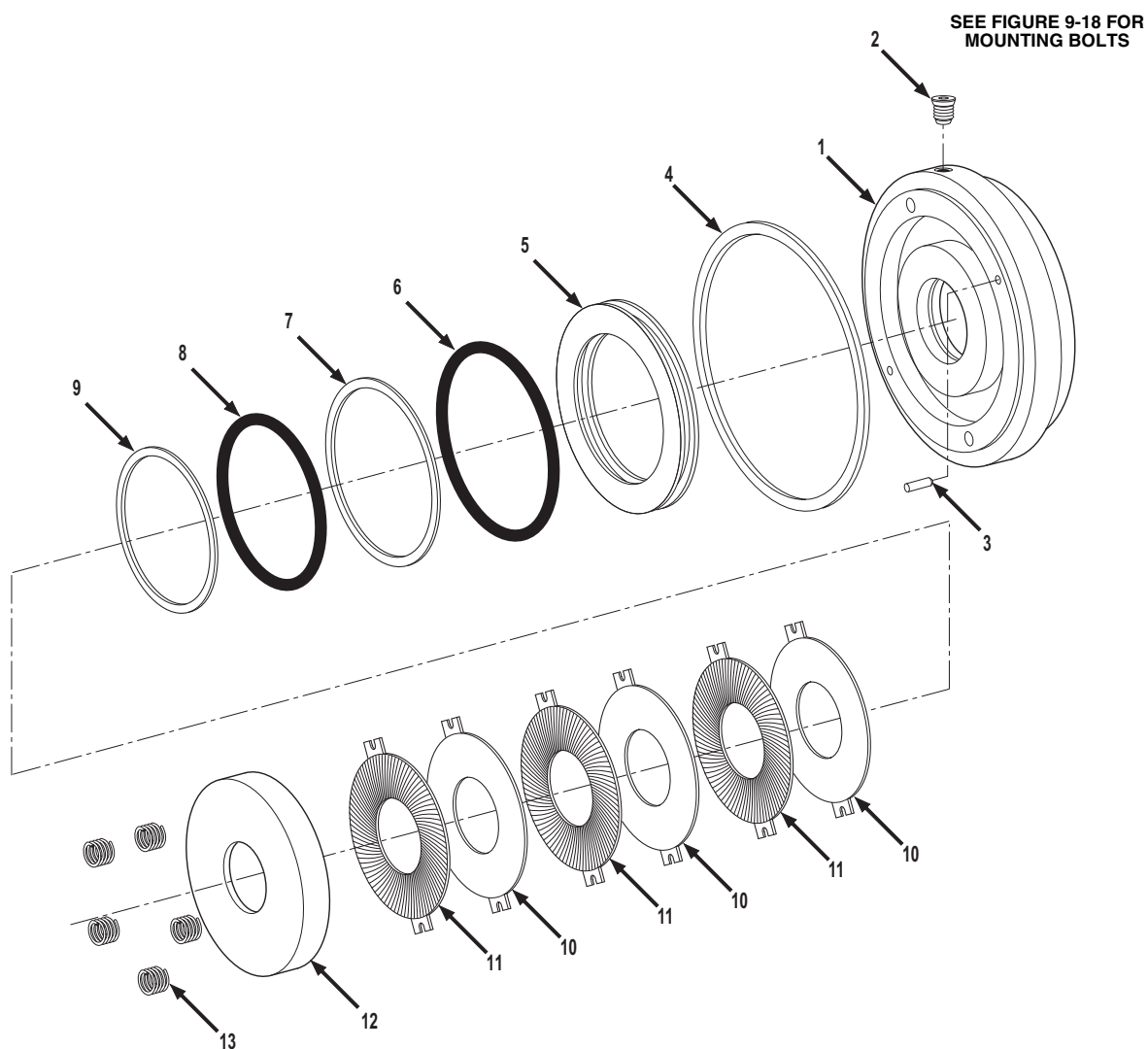
Figure 9-19 Swing Motor

Item	Part Number	Qty.	Description	Rev.
	80443003	1	SWING MOTOR, (includes all items)	
	80444001	1	PORT PLATE, (includes items 1 & 3 thru 10)	
	80444014	1	ROTARY GROUP, (includes items 14 thru 21)	
1	80444002	1	PORT PLATE	
2	80444003	2	ADAPTER	
3	80444004	2	LOCKING SCREW	
4	80444005	2	CHECK VALVE	
5	80444006	1	CYLINDER PIN	
6	80444007	1	O-RING	
7	80444008	1	DOUBLE BREAK-OFF PIN	
8	80444009	2	SOCKET HD CAPSCREW	
9	80334491	1	LOCKING SCREW	
10	80444010	3	SOCKET HD CAPSREW	
11	80444011	1	ROTARY GROUP, (includes item 21)	
12	80444012	1	HOUSING	
13	80444013	1	LOCKING SCREW	
14	80444015	1	RETAINING RING	
15	80444016	1	COVER	
16	80444017	1	SHAFT SEAL RING	
17	80444018	1	O-RING	
18	80444019	1	SHIM	
19	80444020	2	SHIM	
20	80444021	1	DRIVE SHAFT w/BEARING ASSY, (includes items 22 thru 27)	
21		1	ROTARY GROUP HYDRAULIC SECTION	
22	80444022	1	DRIVE SHAFT	
23	80444023	1	TAPERED ROLLER BEARING	
24	80444024	1	BEARING RING	
25	80444025	1	TAPERED ROLLER BEARING	
26	80444026	1	BACK-UP PLATE	
27	80444027	1	RETAINING RING	
	80484089	1	SEAL KIT, (includes items 6, 9, 13, 15, 16 & 17)	



HYDRAULIC COMPONENTS

Figure 9-20 Swing Brake



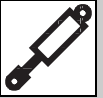


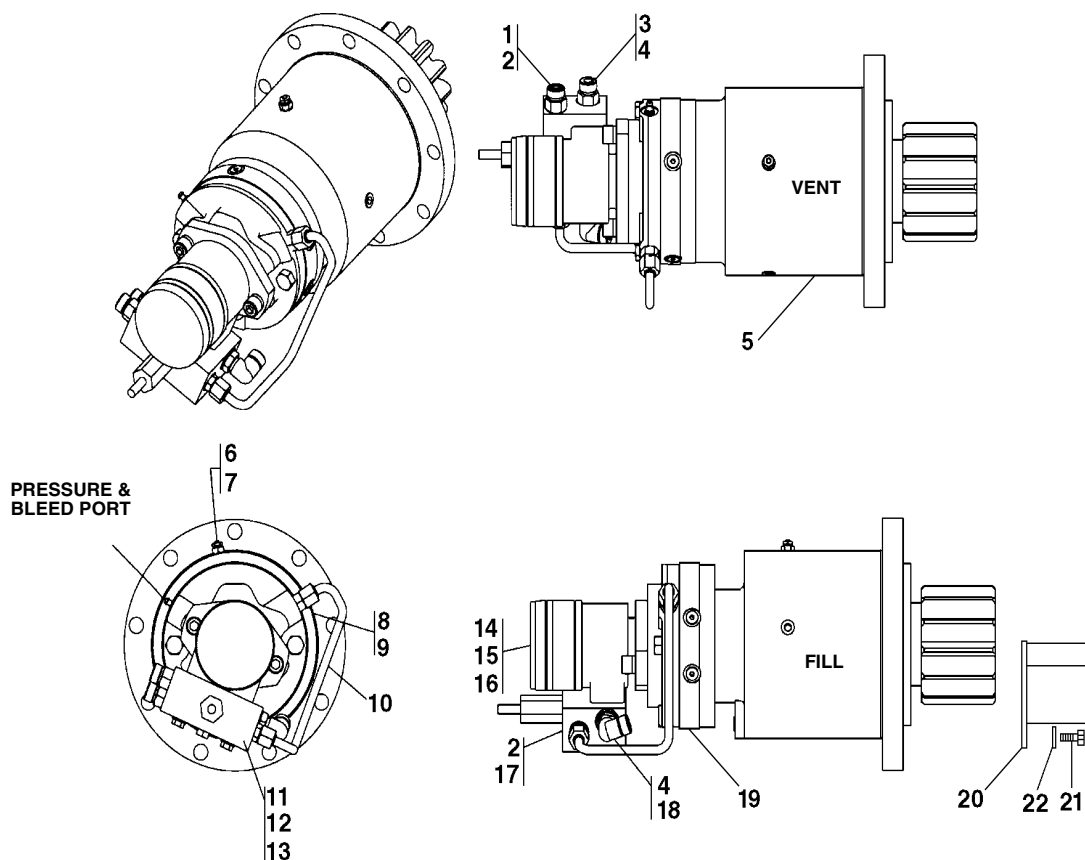
Figure 9-20 Swing Brake

Item	Part Number	Qty.	Description	Rev.
	80404009	1	SWING BRAKE, (includes all items)	
1		1	PRESSURE PLATE	
2	80404012	1	PLUG	
3	80404015	2	DOWEL PIN	
4		1	CASE SEAL	
5		1	PISTON	
6		1	O-RING	
7		1	BACK-UP RING	
8		1	O-RING	
9		1	BACK-UP RING	
10	80404022	3	STATOR	
11	80404023	3	ROTOR	
12		1	PLATE	
13		12	SPRING	
	80404126	AR	SPRING KIT, (contains 12 springs)	
	80404121	1	SEAL KIT, (includes items 4, 6 thru 9)	
	80404125	AR	FRICTION DISC KIT, (includes items 1, 4, 10 & 11)	



HYDRAULIC COMPONENTS

Figure 9-21 Tilt Transmission Installation



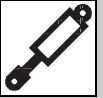


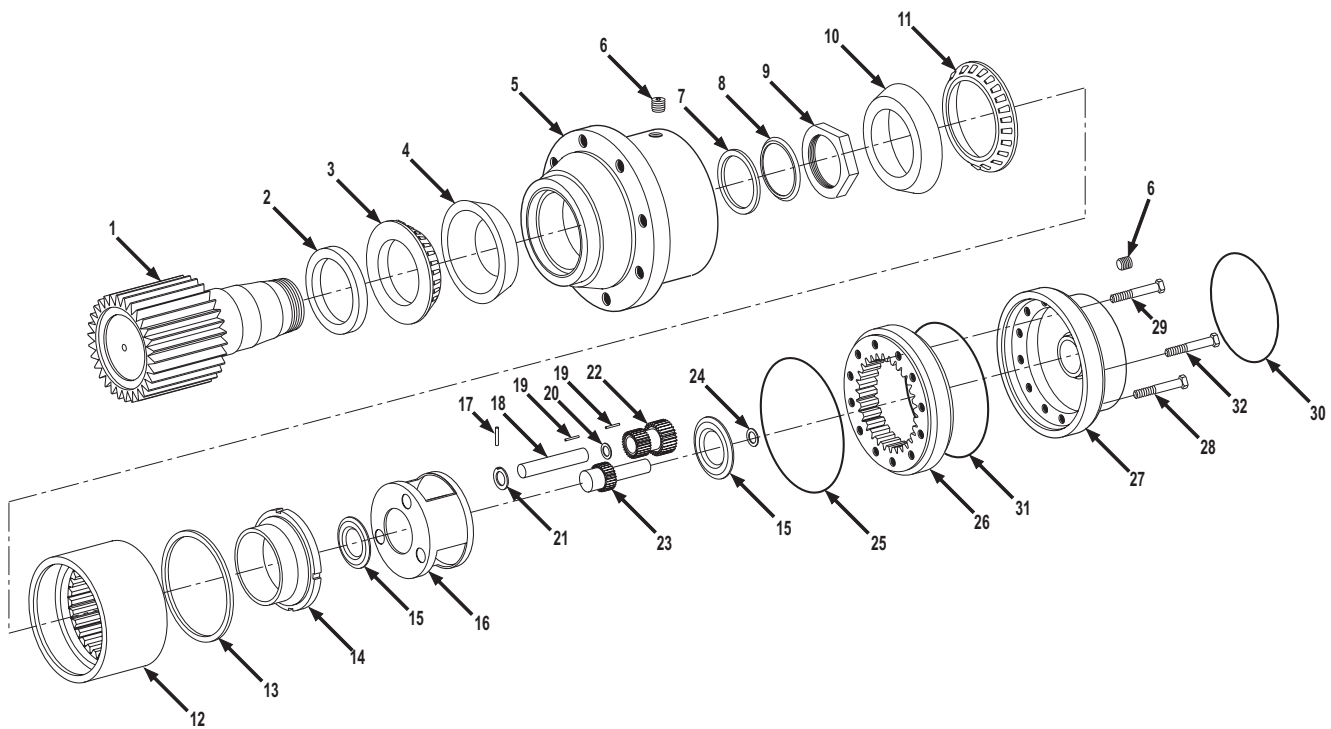
Figure 9-21 Tilt Transmission Installation

Item	Part Number	Qty.	Description	Rev.
	80425007	1	TILT TRANSMISSION ASSY, (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 ASSY, (see Figure 9-22 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 ASSY, (see Figure 9-24 for details)	
15	8821106	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 ASSY, (see Figure 9-23 for details)	
20	80423012	1	TILT PINION GUARD	
21	88201037	3	HEX HD CAPSCREW, 3/8-16X1, GR5	
22	88561109	3	FLAT WASHER, 1/2	



HYDRAULIC COMPONENTS

Figure 9-22 Tilt Transmission



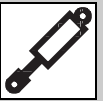


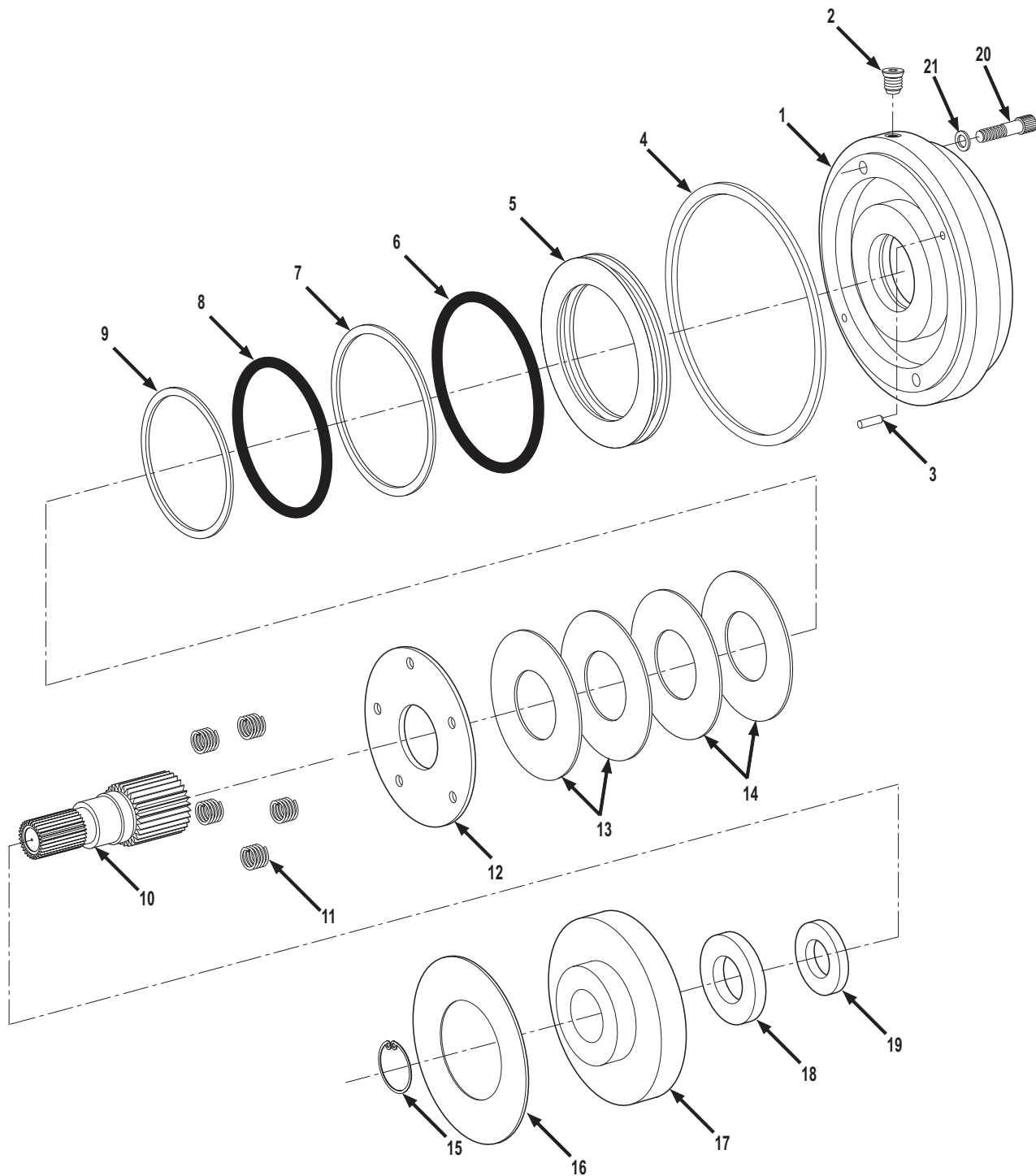
Figure 9-22 Tilt Transmission

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	THRUST WASHER	
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 THRUST WASHER	
22	80324031	3	CLUSTER GEAR	
23	80324032	1	SUN GEAR	
24	80324033	1	THRUST WASHER	
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	80424032	1	O-RING, (between tilt transmission & tilt motor)	
31	80424004	1	O-RING	
32	80424008	2	HEX HD CAPSCREW, 1/2-13X3-1/4, GR8	



HYDRAULIC COMPONENTS

Figure 9-23 Tilt Brake



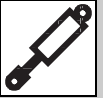
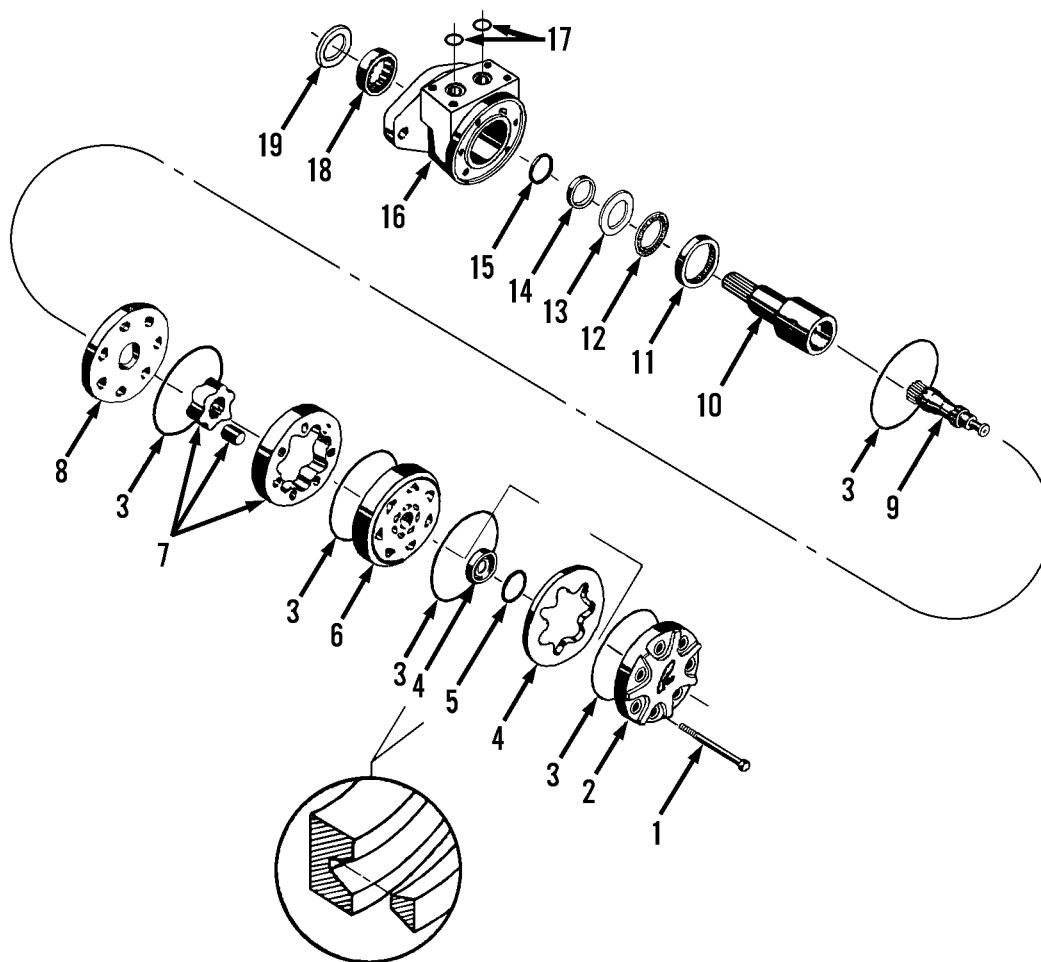


Figure 9-23 Tilt Brake

Item	Part Number	Qty.	Description	Rev.
	80424003	1	TILT BRAKE, (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	80424027	1	HOUSING	
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)	



Figure 9-24 Tilt Motor



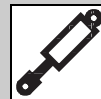


Figure 9-24 Tilt Motor

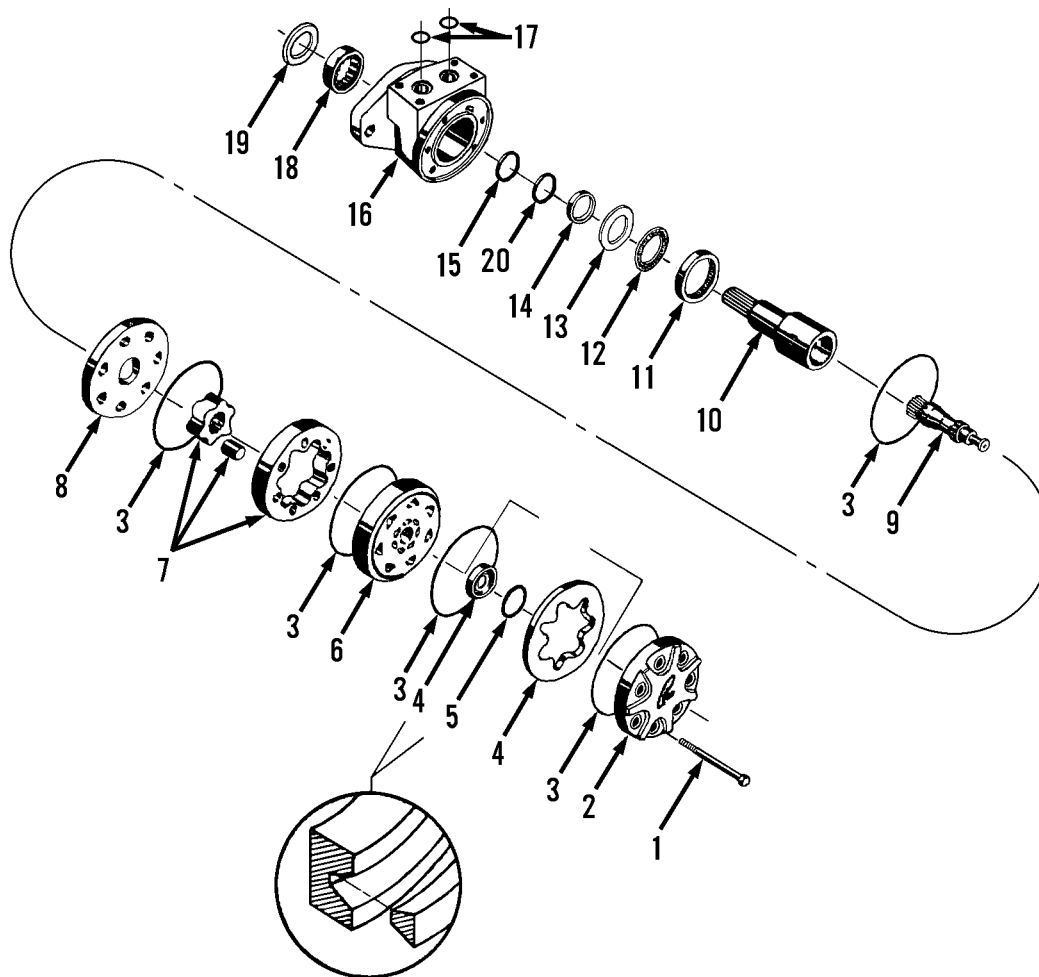
Item	Part Number	Qty.	Description	Rev.
	80323026	1	TILT MOTOR, (includes all items)	
1	80324039	5	BOLT	
2	80324040	1	END COVER	
3	80324041	5	SEAL RING	
4	80324042	1	COMMUTER & RING ASSY	
5	80324043	1	COMMUTER SEAL	
6	80324044	1	MANIFOLD	
7	80324045	1	ROTOR ASSY	
8	80324046	1	WEAR PLATE	
9	80324047	1	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 0210017577 thru 0210018098
& 4300000029 & After

Figure 9-24 Tilt Motor



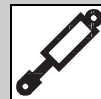
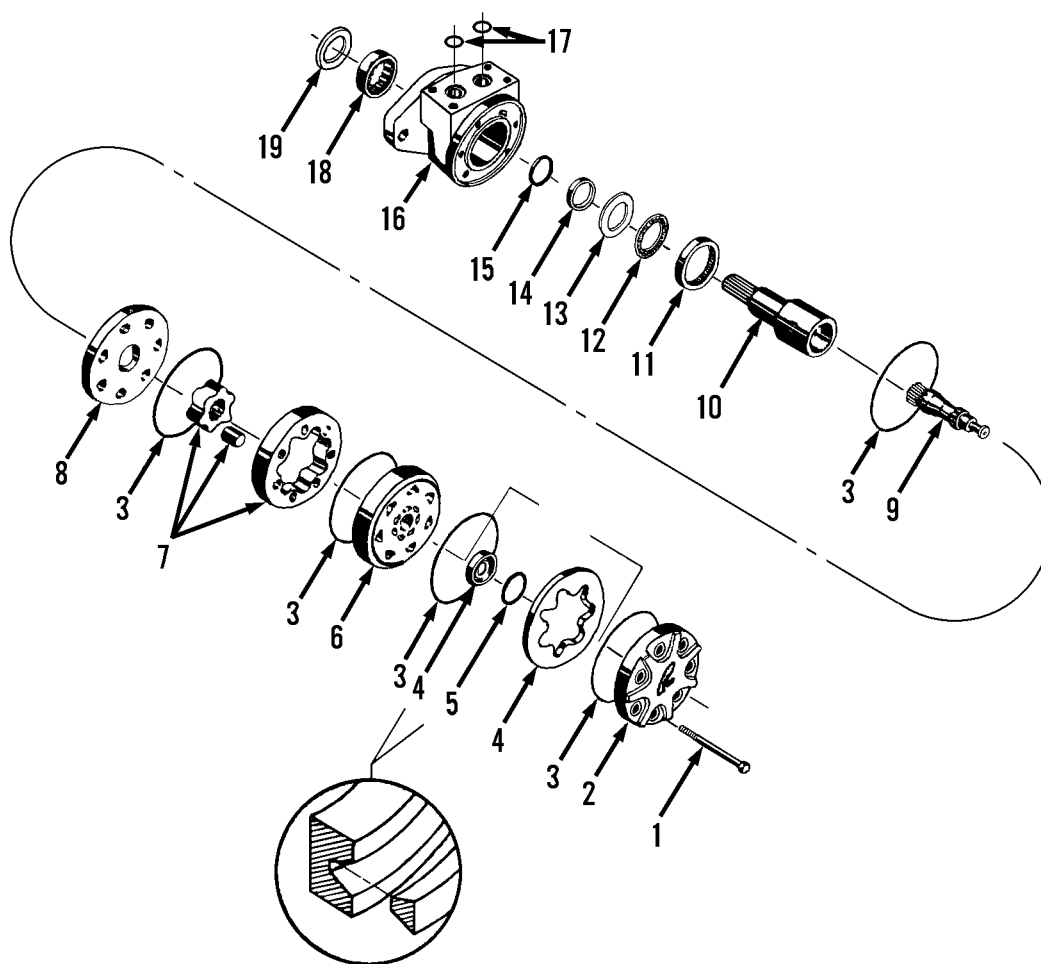


Figure 9-24 Tilt Motor

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	BACK-UP WASHER	
	80324058	AR	SEAL KIT, (includes items 3, 5, 14, 15 & 19)	



Figure 9-24 Tilt Motor



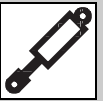


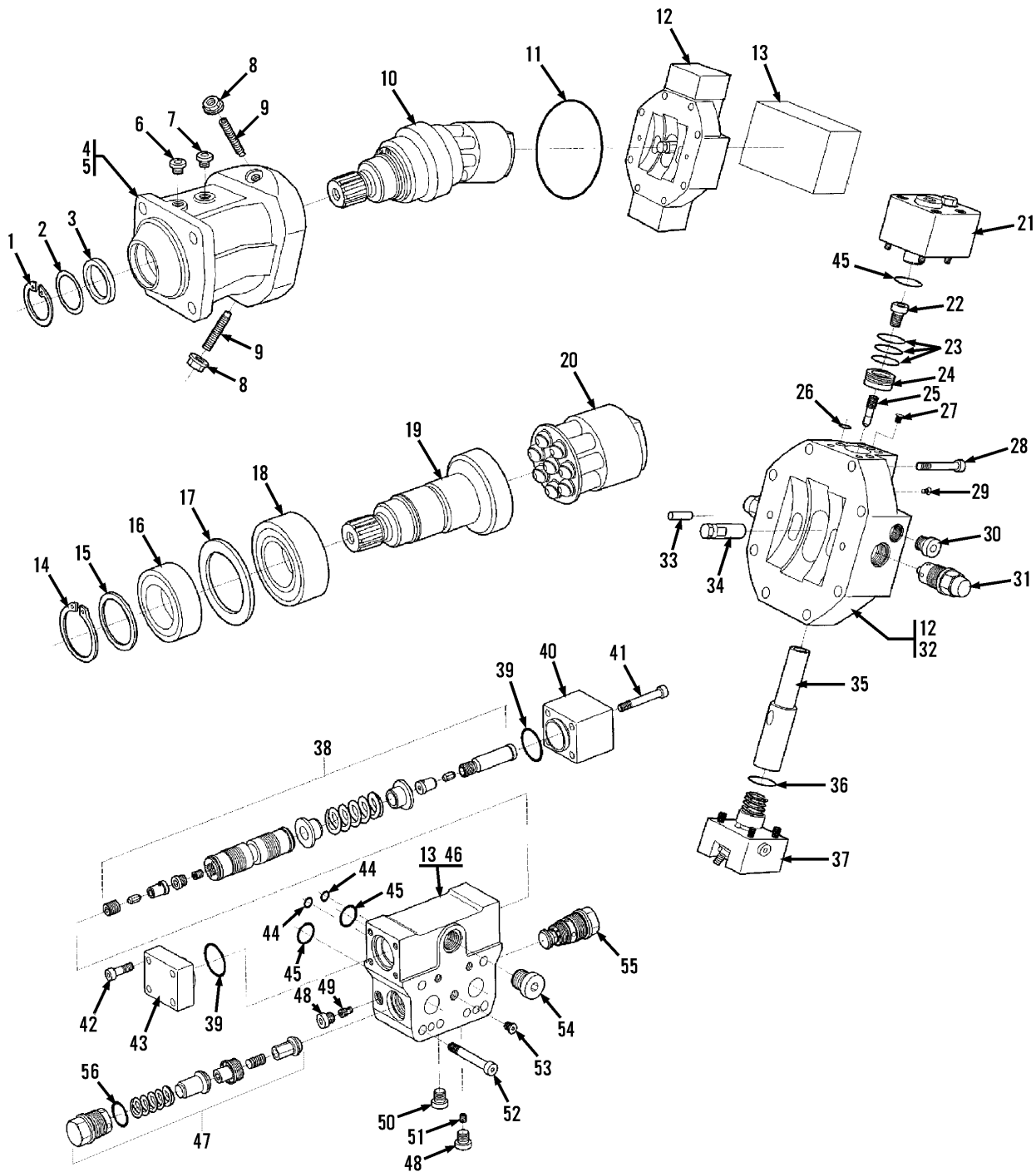
Figure 9-24 Tilt Motor

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 9-25 Drive Motor



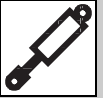


Figure 9-25 Drive Motor

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		3	O-RING	
46		1	HOUSING	
47		1	VALVE	
48		2	LOCKING SCREW	



HYDRAULIC COMPONENTS

Figure 9-25 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)	

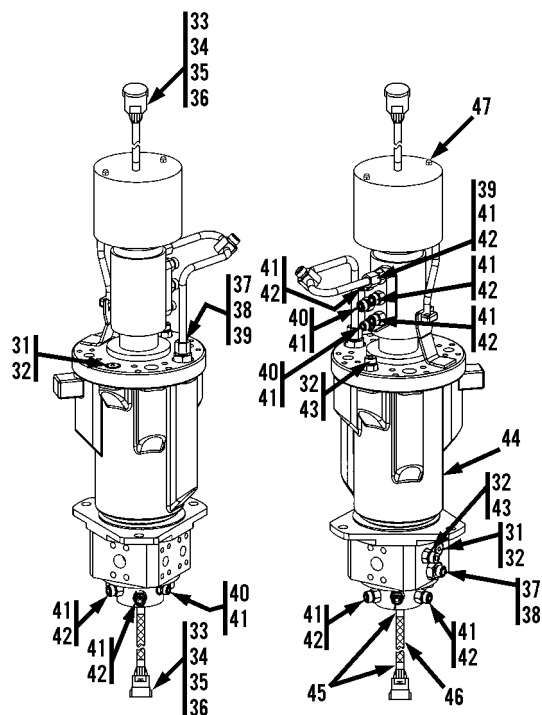
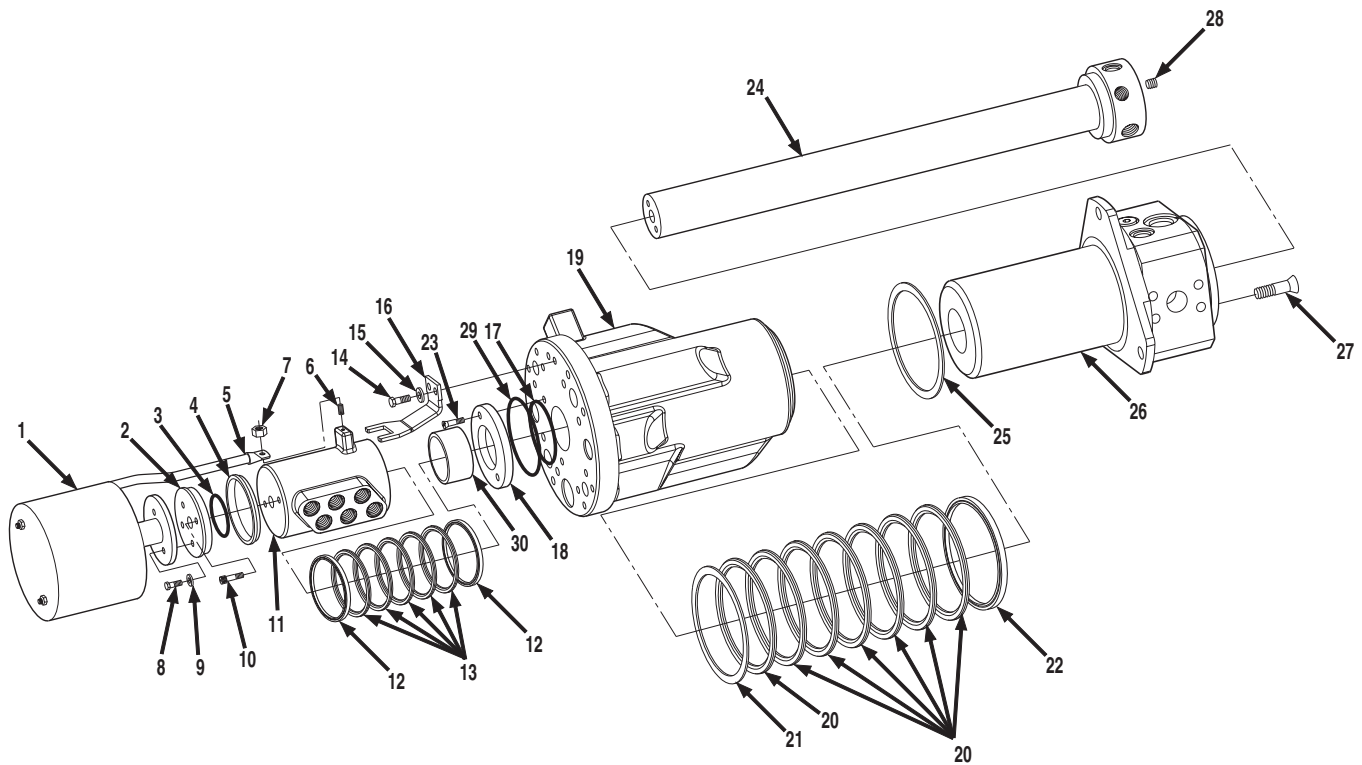
Figure 9-25 Drive Motor (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-26 Center Pin Assembly



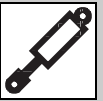


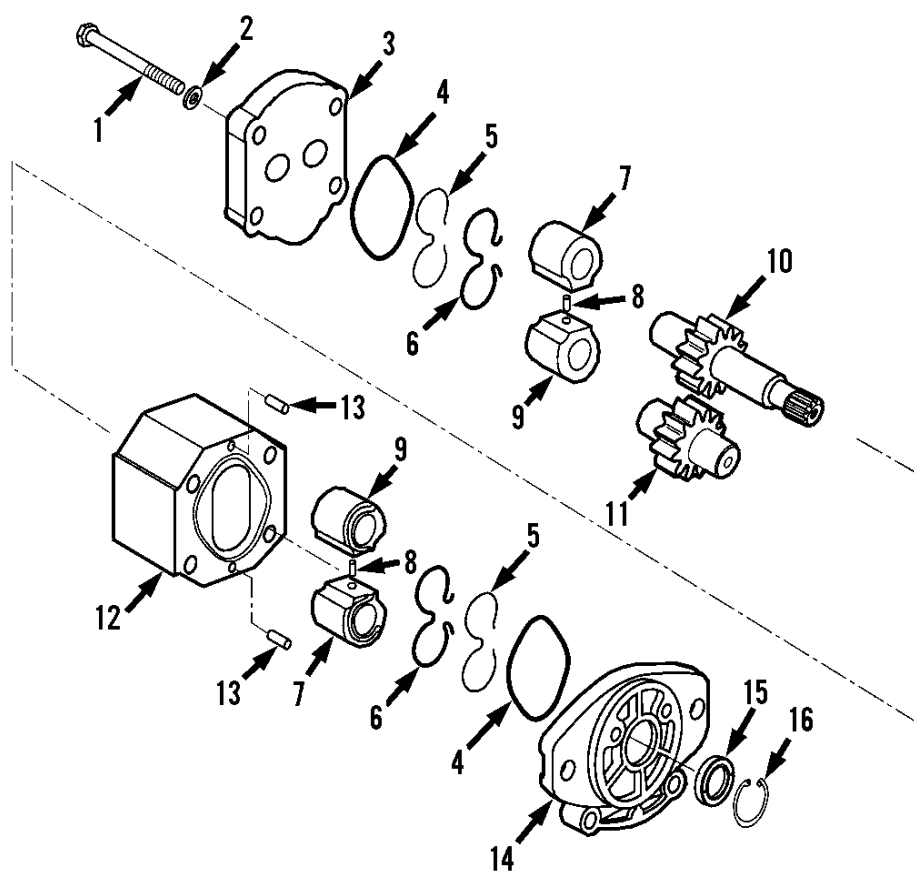
Figure 9-26 Center Pin Assembly

Item	Part Number	Qty.	Description	Rev.
	80435018	1	CENTER PIN ASSY, (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	4	O-RING	
33	77363228	20	DEUTSCH PIN	
34	80363178	2	DEUTSCH RECEPTICLE	
35	77363230	4	DEUTSCH SEALING PLUG	
36	80363179	2	DEUTSCH LOCKING WEDGE	
37	88662312	2	CONNECTOR, (includes item 38)	
38	88591207	2	O-RING	
39	80433222	1	TUBE ASSY	
40	88662301	2	CONNECTOR, (includes item 41)	
41	88591204	12	O-RING	
42	88662440	10	CONNECTOR, (includes item 41)	
43	88662302	2	CONNECTOR, (includes item 32)	
44	80333102	1	CENTER PIN ASSY, (includes items 1 thru 30)	
45	83681905	3"	HEAT SHRINK	
46	82033996	23"	EXPANDABLE LOOM	
47	88591005	2	O-RING	
	80334404	1	SEAL KIT, (includes items 3, 4, 12, 13, 17, 20, 21, 22, 25 & 29)	



HYDRAULIC COMPONENTS

Figure 9-27 Gear Pump



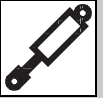


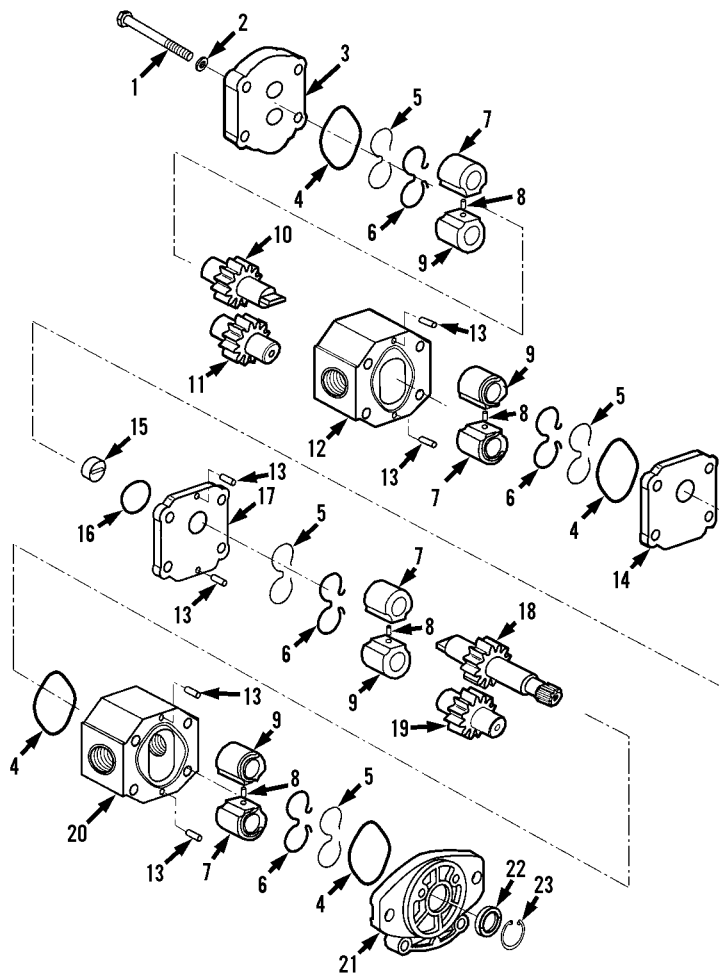
Figure 9-27 Gear Pump

Item	Part Number	Qty.	Description	Rev.
	80333238	1	GEAR PUMP	
1		4	TORX HD CAPSCREW, M10-1.5X1.75	
2		4	LOCKWASHER	
3		1	REAR COVER	
4		2	SQUARE RING	
5		2	ANTI-EXTRUSION SEAL	
6		2	PRESSUE-LOADING SEAL	
7		2	BEARING BLOCK	
8		2	DOWEL PIN	
9		2	BEARING BLOCK	
10		1	DRIVE GEAR	
11		1	DRIVEN GEAR	
12		1	BODY	
13		2	DOWEL PIN	
14		1	FRONT COVER	
15		1	SHAFT SEAL	
16		1	RETAINING RING	
	80334611	1	SEAL KIT, (includes items 4, 5, 6 & 15)	



HYDRAULIC COMPONENTS

Figure 9-28 CE Gear Pump



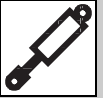


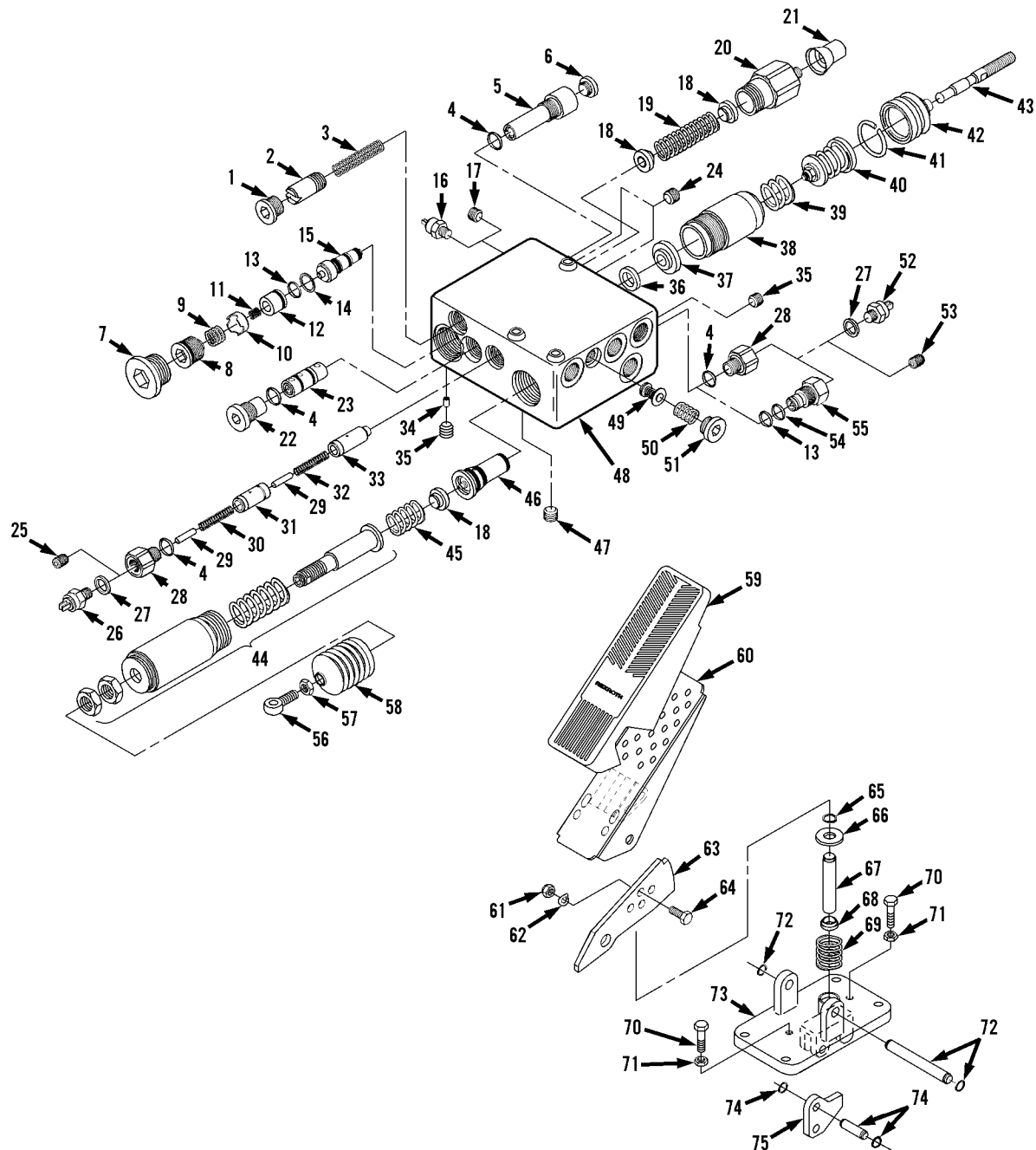
Figure 9-28 CE Gear Pump

Item	Part Number	Qty.	Description	Rev.
	80333239	1	CE GEAR PUMP	
1		4	TORX HD CAPSCREW, M10-1.5X1.75	
2		4	LOCKWASHER	
3		1	REAR COVER	
4		4	SQUARE CUT RING	
5		4	ANTI-EXTRUSION SEAL	
6		4	PRESSURE-LOADING SEAL	
7		4	BEARING BLOCK	
8		4	DOWEL PIN	
9		4	BEARING BLOCK	
10		1	REAR DRIVE GEAR	
11		1	DRIVEN GEAR	
12		1	REAR BODY	
13		6	DOWEL PIN	
14		1	INTERMEDIATE COVER	
15		1	COUPLING	
16		1	O-RING	
17		1	INTERMEDIATE COVER	
18		1	FRONT DRIVE GEAR	
19		1	DRIVEN GEAR	
20		1	FRONT BODY	
21		1	FRONT COVER	
22		1	SHAFT SEAL	
23		1	RETAINING RING	
	80334612	1	SEAL KIT, (includes items 4, 5, 6, 16 & 22)	



HYDRAULIC COMPONENTS

Figure 9-29 Foot Operated Pedal Valve



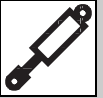


Figure 9-29 Foot Operated Pedal Valve

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 9-29 Foot Operated Pedal 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)	

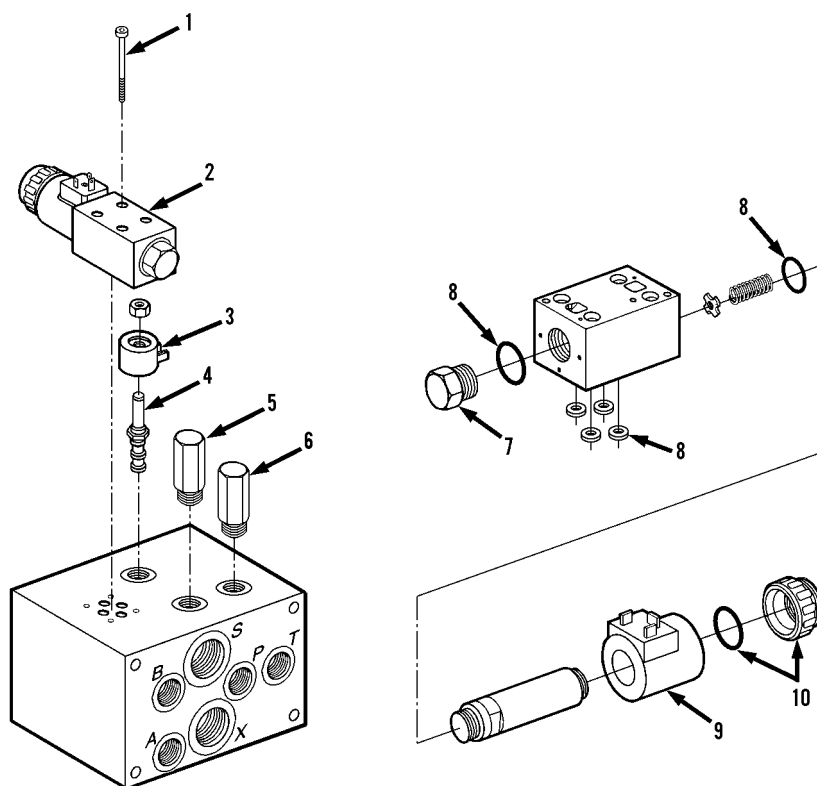
Figure 9-29 Foot Operated Pedal Valve (Continued)

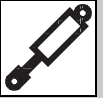
Item	Part Number	Qty.	Description	Rev.



HYDRAULIC COMPONENTS

Figure 9-30 Transmission Control Valve Installation



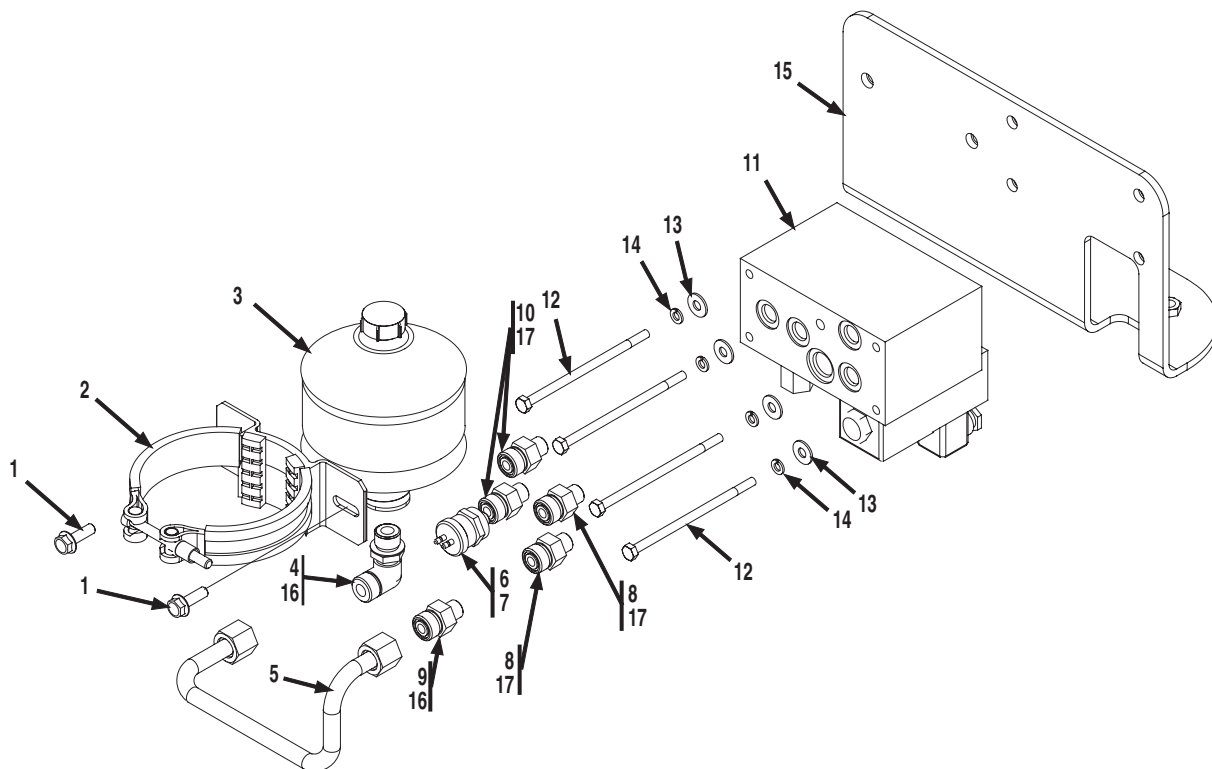
**Figure 9-30 Transmission Control Valve Installation**

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 9-31 Transmission Control Valve Assembly



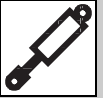


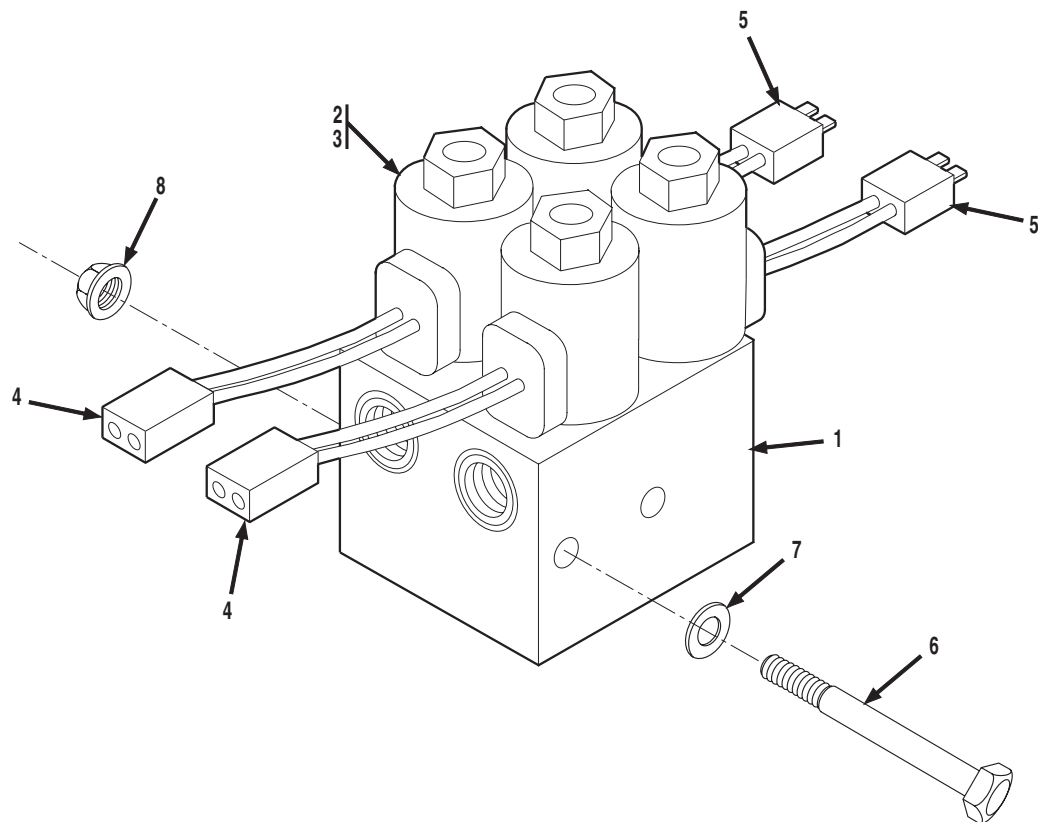
Figure 9-31 Transmission Control Valve Assembly

Item	Part Number	Qty.	Description	Rev.
	80435006	1	TRANSMISSION CONTROL VALVE ASSY, (includes all items)	
1	91363018	2	WHIZ-LOK BOLT, 5/16-18X1	
2	80433046	1	ACCUMULATOR CLAMP	
3	80433045	1	ACCUMULATOR	
4	88662330	1	ELBOW, 90 DEGREES, (includes item 16)	
5	80433048	1	TUBE ASSY	
6	80333165	1	PRESSURE SWITCH	
7	88591006	1	O-RING	
8	88662301	2	CONNECTOR, (includes item 17)	
9	88662302	1	ELBOW, 90 DEGREES, (includes item 16)	
10	88662440	2	CONNECTOR, (includes item 17)	
11		Ref	TRANSMISSION CONTROL VALVE, (see Figure 9-30 for details)	
12	80333123	4	HEX HD CAPSCREW, 1/4-20X5, GR5	
13	88561002	4	FLAT WASHER, 1/4	
14	88551009	4	LOCKWASHER, 1/4	
15	80431023	1	MOUNT BRACKET	
16	88591205	2	O-RING	
17	88591204	4	O-RING	



HYDRAULIC COMPONENTS

Figure 9-32 Outrigger Selector Valve Installation



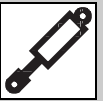


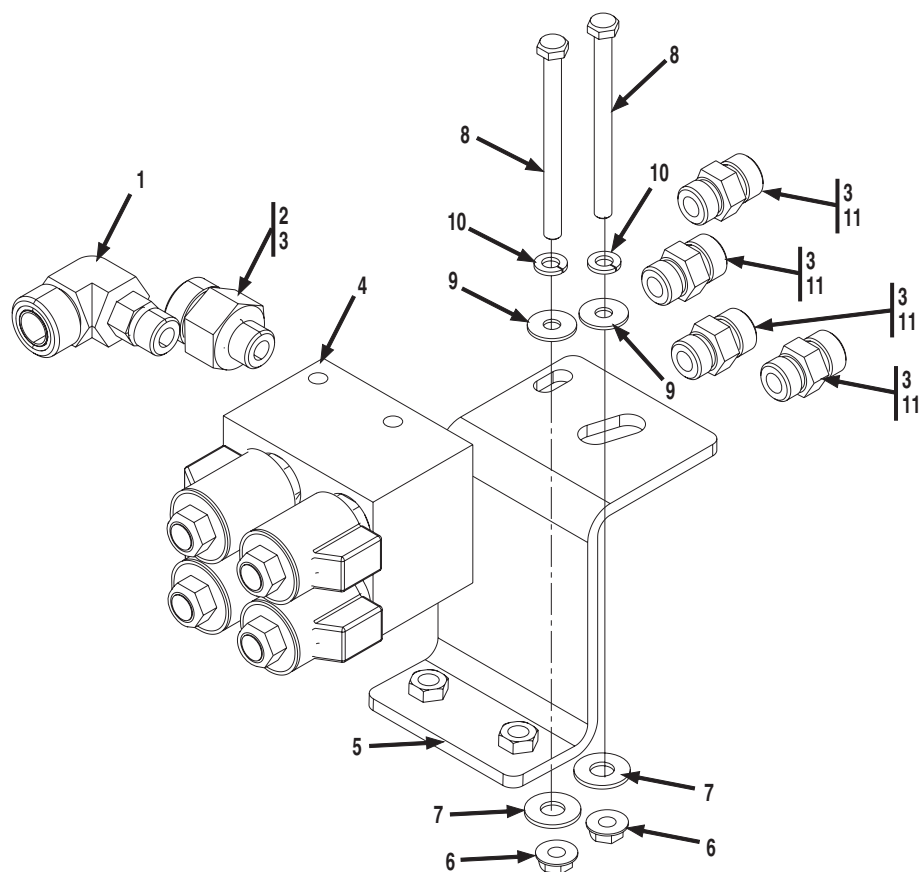
Figure 9-32 Outrigger Selector Valve Installation

Item	Part Number	Qty.	Description	Rev.
	80333115	1	OUTRIGGER SELECTOR VALVE, (includes items 1 thru 5)	
1		1	VALVE BLOCK	
2	80334511	4	SOLENOID	
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, GR5	
7	88561003	2	FLAT WASHER, 5/16	
8	77143006	2	WHIZ-LOK NUT 5/16-18	
	80334513	AR	SEAL KIT	
	91204190	AR	SOLENOID SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-33 Outrigger Selector Valve Assembly



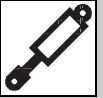


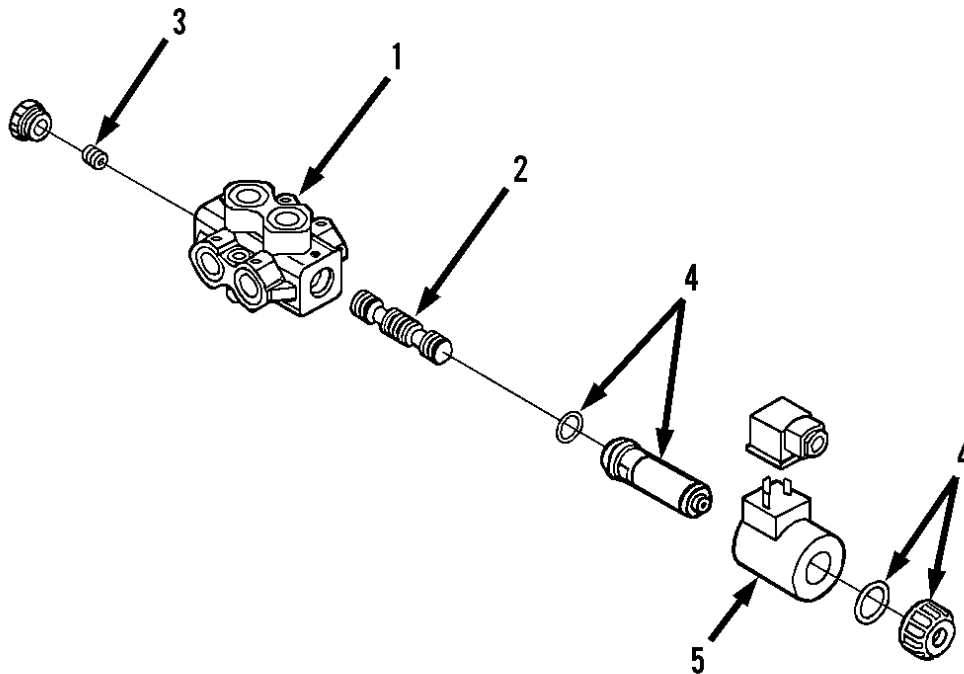
Figure 9-33 Outrigger Selector Valve Assembly

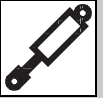
Item	Part Number	Qty.	Description	Rev.
	80435007	1	OUTRIGGER CONTROL VALVE ASSY, (includes all items)	
1	80433047	1	ELBOW, 90 DEGREES	
2	88662316	1	CONNECTOR, (includes item 3)	
3	88591205	5	O-RING	
4		Ref	OUTRIGGER SELECTOR VALVE, (see Figure 9-32 for details)	
5	80431024	1	VALVE MOUNT BRACKET	
6	88521305	2	HEX LOCKNUT, 5/16-18	
7	88561004	2	FLAT WASHER, 3/8	
8	83201069	2	HEX HD CAPSCREW, 5/16-18X4	
9	88561003	2	FLAT WASHER, 5/16	
10	88551010	2	LOCKWASHER, 5/16	
11	88662302	4	CONNECTOR, (includes item 3)	



HYDRAULIC COMPONENTS

Figure 9-34 Six Way Diverter Valve



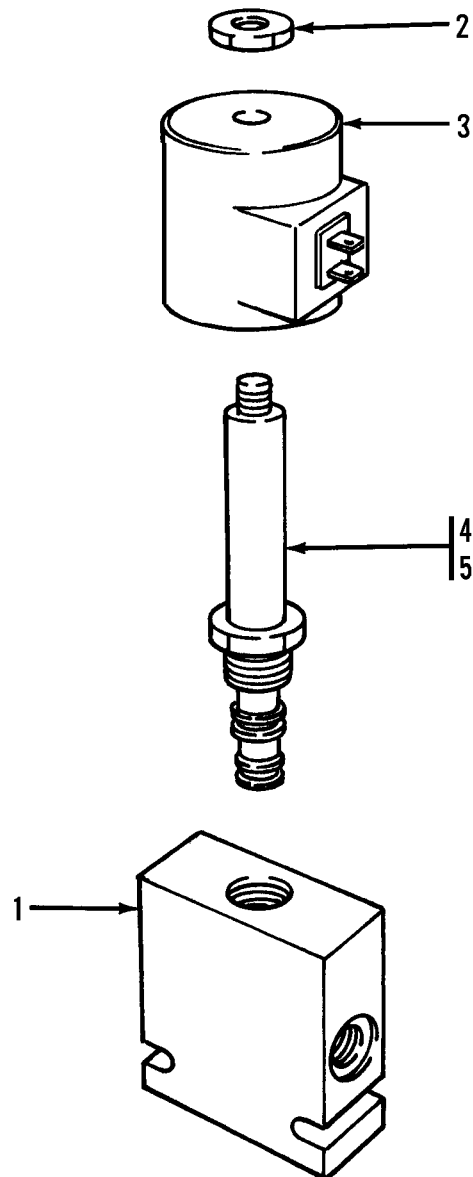
**Figure 9-34 Six Way Diverter Valve**

Item	Part Number	Qty.	Description	Rev.
	80333181	1	SIX-WAY DIVERTER VALVE, (includes all items)	
1	80334514	1	VALVE BODY	
2	80334515	1	SPOOL	
3	80334516	1	ADAPTER	
4	80334517	1	TUBE ASSY	
5	80334518	1	COIL ASSY	



HYDRAULIC COMPONENTS

Figure 9-35 Solenoid Valve



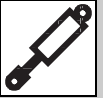


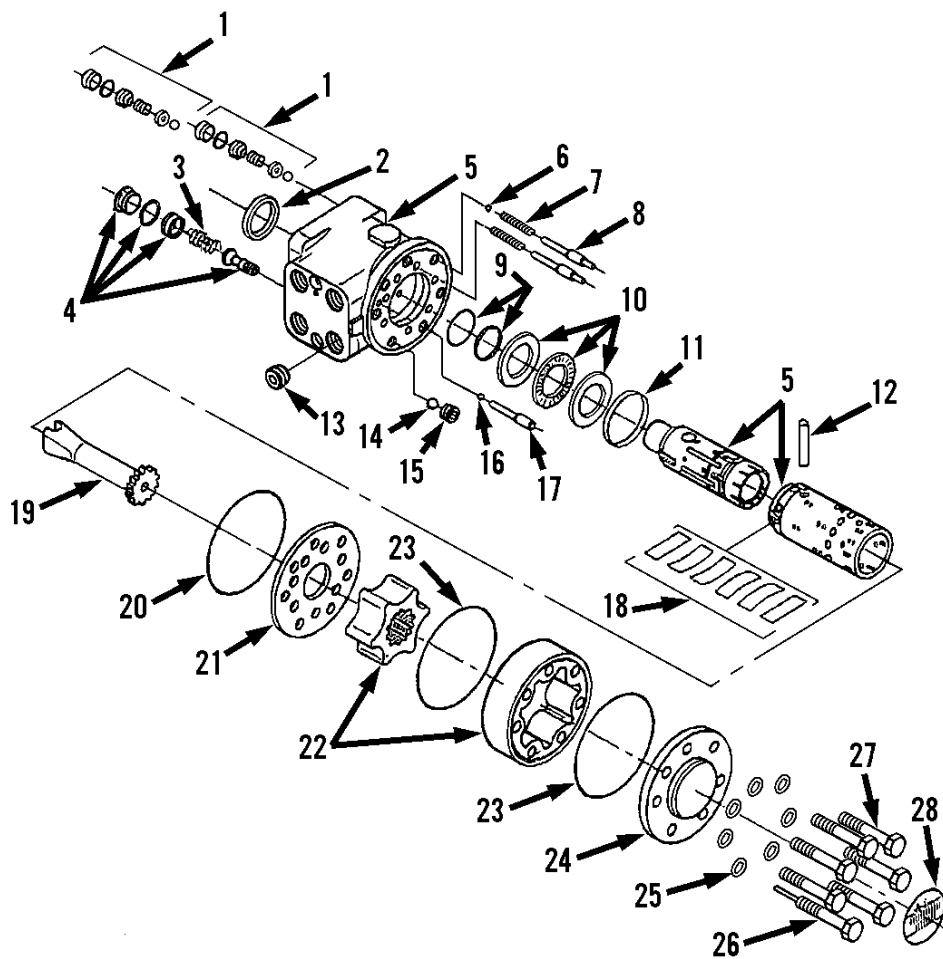
Figure 9-35 Solenoid Valve

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 9-36 Steering Control



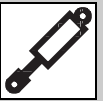


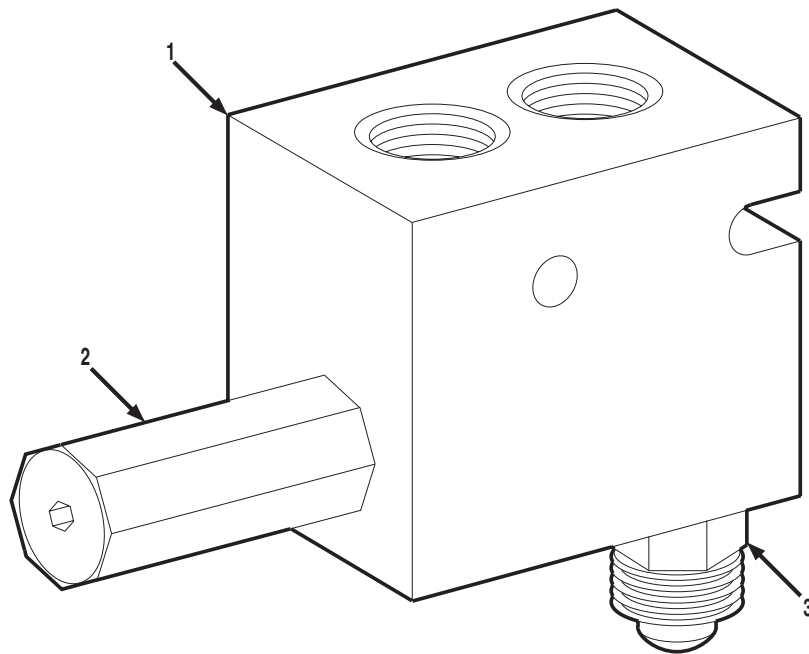
Figure 9-36 Steering Control

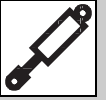
Item	Part Number	Qty.	Description	Rev.
	80333107	1	STEERING CONTROL, (includes all items)	
1	80334551	2	SHOCK VALVE	
2	80334552	1	DUST SEAL RING	
3	80334553	1	SPRING	
4	80334554	1	RELIEF VALVE	
5		1	HOUSING, SPOOL & SLEEVE SET	
6	80334555	2	BALL	
7	80334556	2	SPRING	
8	80334557	2	PIN	
9	80334558	1	SHAFT 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)	



HYDRAULIC COMPONENTS

Figure 9-37 Hoist Limit Valve



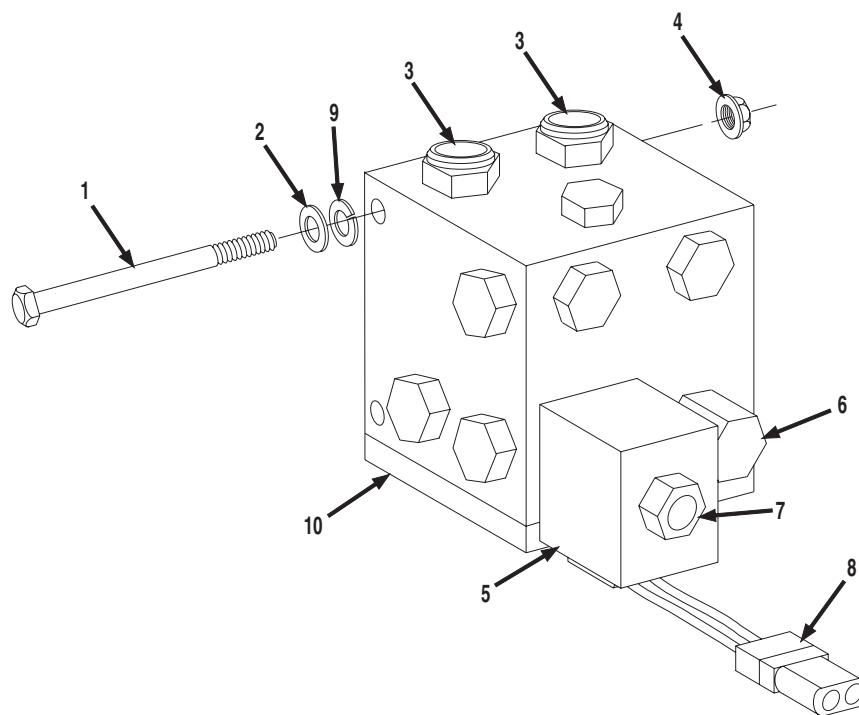
**Figure 9-37 Hoist Limit Valve**

Item	Part Number	Qty.	Description	Rev.
1	80433206	1	HOIST LIMIT VALVE, (includes all items)	
2	80433041	1	VALVE BLOCK	
3	80434242	1	CARTRIDGE	
	80434242	1	RELIEF VALVE ASSY	
	80434243	1	SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-38 Oscillation/Cylinder Anti-Drift Valve



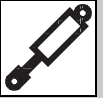


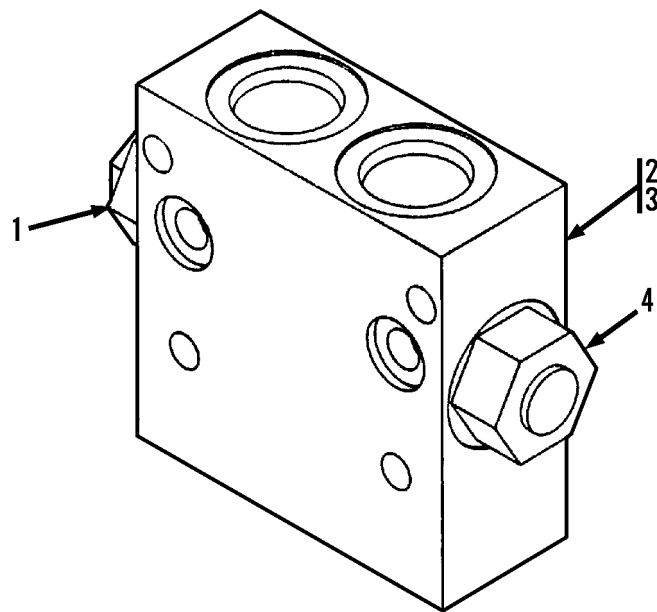
Figure 9-38 Oscillation/Cylinder Anti-Drift Valve

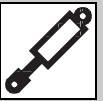
Item	Part Number	Qty.	Description	Rev.
	80333114	1	OSCILLATION ANTI-DRIFT VALVE, (includes all items except 1, 2, 4, 8 & 9)	
1	91123162	2	HEX HD CAPSCREW, 5/16-18X4-3/4	
2	88561003	2	FLAT WASHER, 5/16	
3	77364159	2	CHECK VALVE ASSY	
4	77143006	2	WHIZ-LOK NUT	
5	80334223	1	COIL	
6	80334521	1	THERMAL RELIEF CARTRIDGE	
7	80334520	1	SOLENOID VALVE	
8	80963058	1	WEATHER PACK SHROUD	
9	88551010	2	LOCKWASHER, 7/8	
10	80431051	1	SPACER	



HYDRAULIC COMPONENTS

Figure 9-39 Outrigger Valve Block



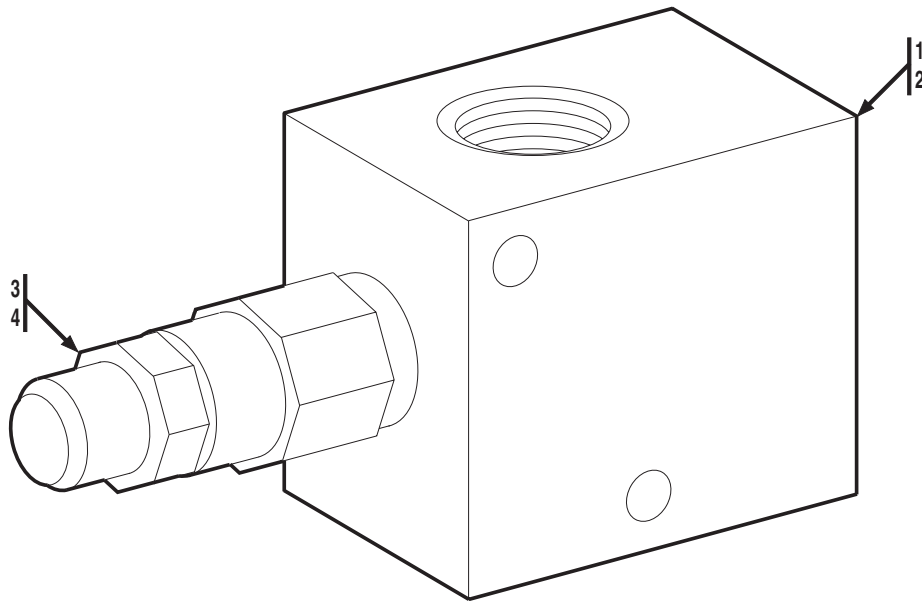
**Figure 9-39 Outrigger Valve Block**

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)	



HYDRAULIC COMPONENTS

Figure 9-40 Swing Reduction Valve



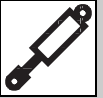


Figure 9-40 Swing Reduction Valve

Item	Part Number	Qty.	Description	Rev.
	80433213	1	SWING REDUCTION VALVE ASSY, (includes all items)	
1		1	VALVE BODY	
2	80434240	1	ORIFICE	
3	80434239	1	RELIEF VALVE ASSY	
4	80434239	1	RELIEF VALVE SEAL KIT	

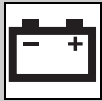


HYDRAULIC COMPONENTS

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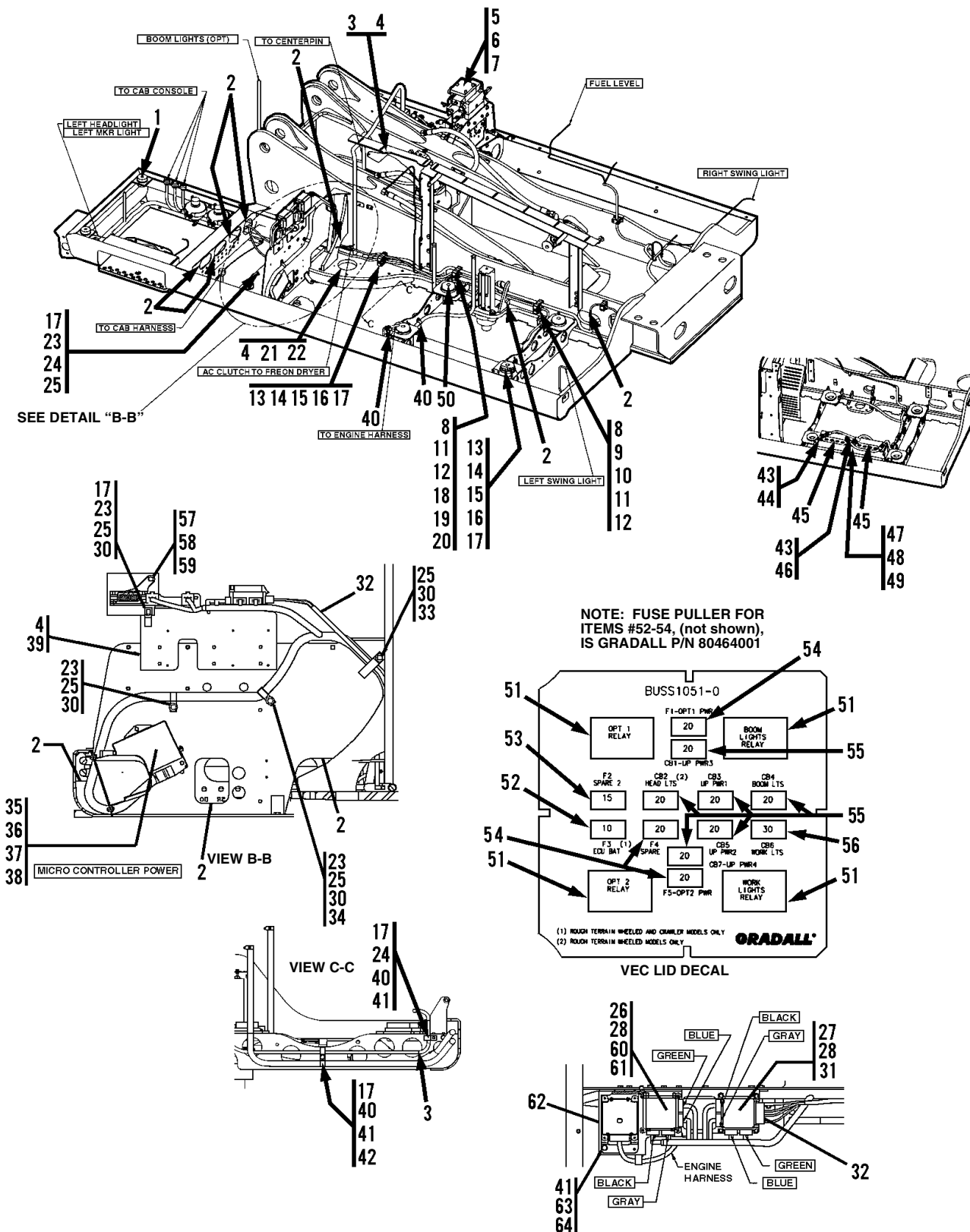
SECTION 10 ELECTRICAL





ELECTRICAL

Figure 10-1 Batteries & Miscellaneous Components



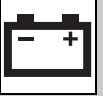
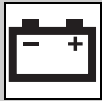


Figure 10-1 Batteries & Miscellaneous Components

Item	Part Number	Qty.	Description	Rev.
1	80363065	4	SHOCK MOUNT	
2		AR	FLEX GUARD	
3	80476013	1	SPRING SUPPORT WELDMENT	
4	80973025	11	WHIZ-LOK BOLT, 3/8-16X1	
5		Ref	MAIN HYDRAULIC CONTROL VALVE ASSY, (see Figure 9-11 for details)	
6	88201052	3	HEX HD CAPSCREW, 7/16-14X1-1/2, GR5	
7	88551012	3	LOCKWASHER, 7/16	
8	77133136	3	CLAMP SET	
9	77133137	3	COVER PLATE	
10	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
11	77133306	3	STACK BOLT	
12	77133390	3	SAFETY CLIP	
13	80471045	2	STRIKER BRACKET	
14	80373166	2	STRIKER BOLT	
15	83191071	4	HEX NUT, M14-2	
16	80973096	3	WHIZ-LOK BOLT, 3/8-16X1-1/2	
17	77143015	7	WHIZ-LOK NUT, 3/8-16	
18	77133168	2	CLAMP SET	
19	77133140	2	COVER PLATE	
20	77133177	2	HEX HD CAPSCREW, 5/16-18X1-3/8	
21	80471053	1	COVER	
22	80473060	1	GASKET	
23	80673023	3	SUPPORT CLAMP, 1-1/16	
24	88201036	2	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
25	88561004	5	FLAT WASHER, 3/8	
26	80463012	1	XL4300 RELAY BOX	
27	77143016	4	WHIZ-LOK BOLT, #10-24X3/4	
28	77143017	8	WHIZ-LOK NUT, #10-24	
29	85841150	1	SUPPORT CLAMP, 1-1/2	
30	88201033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
31	80463008	1	UPPER VEC, (includes items 51 thru 56)	
32	80463013	1	VEC POWER/GROUND HARNESS	
33	80673025	1	SUPPORT CLAMP, 2-1/4	
34	80463004	1	UPPER HARNESS	
35	80463001	1	XL4300 MC-7	
36	88201002	1	HEX HD CAPSCREW, 1/4-20X5/16, GR5	
37	88201012	2	HEX HD CAPSCREW, 1/4-20X2-3/4, GR5	
38	88551009	3	LOCKWASHER, 1/4	
39	80471097	1	MOUNT PLATE	
40	85941017	4	SUPPORT CLAMP, 29/32	
41	88551011	3	LOCKWASHER, 3/8	
42	88201037	1	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
43	77383567	4	STAINLESS STEEL NUT	
44	80473054	1	NEGATIVE BATTERY CABLE	
45		Ref	BATTERY, (purchase locally)	
46	80473053	1	POSITIVE BATTERY CABLE	
47	80431050	1	BATTERY HOLD-DOWN	
48	91081640	2	HOLD-DOWN STUD	
49	77143006	2	WHIZ-LOK NUT, 5/16-18	



ELECTRICAL

Figure 10-1 Batteries & Miscellaneous Components (Continued)

Item	Part Number	Qty.	Description	Rev.
50	91333003	4	SHOCK MOUNT	
51	80464002	4	MINI-RELAY	
52	80464003	1	FUSE, 10A	
53	80464004	1	FUSE, 15A	
54	80464005	3	FUSE, 20A	
55	80464006	6	CIRCUIT BREAKER, 20A	
56	80464007	1	CIRCUIT BREAKER, 30A	
57	88201019	1	HEX HD CAPSCREW, 5/16-18X7/8, GR5	
58	88551010	1	LOCKWASHER, 5/16	
59	88521305	1	HEX LOCKNUT, 5/16-18	
60	88302094	4	ROUND HD MACHINE SCREW, #10-24X7/8	
61	88551007	4	LOCKWASHER, #10	
62	80471213	1	VEC MOUNT BRACKET	
63	88201035	1	HEX HD CAPSCREW, 3/8-16X1	
64	88521306	1	HEX LOCKNUT, 3/8-16	

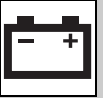
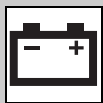


Figure 10-1 Batteries & Miscellaneous Components (Continued)

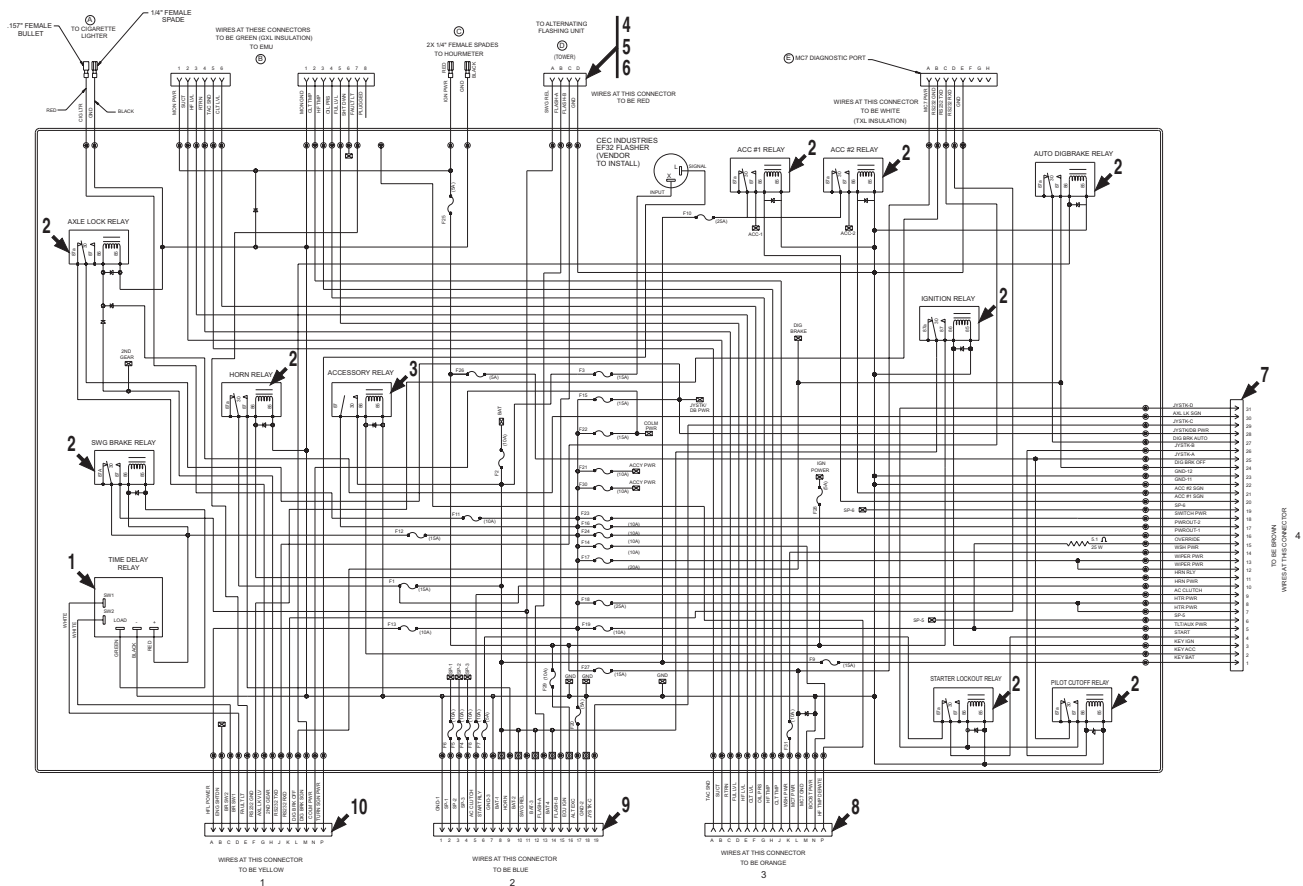
Item	Part Number	Qty.	Description	Rev.



ELECTRICAL

Before S/N 4300000030

Figure 10-2 Cab Console



FUSE	AMP	DESIGNATION
F1	15A	HORN POWER
F2	10A	SPARE BATT POWER
F3	15A	FLASHER POWER
F4	10A	SP-3 (OPTION)
F5	10A	SP-2 (OPTION)
F6	10A	SP-1 (OPTION)
F7	5A	STARTER RELAY
F8	10A	A.C. CLUTCH
F9	15A	KEY SWITCH POWER
F10	25A	ACC RELAY POWER
F11	10A	CIGARETTE LIGHTER
F12	15A	SWG BRAKE RELEASE
F13	10A	HYD LEVEL SENDER
F14	10A	BOOST POWER
F15	15A	JOYSTICK/DIGIBRAKE PWR
F16	10A	POWER OUTLET #2
F17	20A	WIPER POWER
F18	25A	HEATER POWER
F19	10A	TILT/AUX POWER
F20	5A	ALTERNATOR EXCITE
F21	10A	SPARE ACC POWER
F22	15A	STEER COLUMN POWER
F23	10A	SWTCH/DOME LT POWER
F24	10A	POWER OUTLET #1
F25	5A	EMU/HOURMETER POWER
F26	5A	JOYSTICK PILOT CUTOFF
F27	15A	MC7 CONTROLLER POWER
F28	5A	SPARE IGNITION POWER
F29	10A	ECU IGNITION POWER
F30	10A	SPARE ACC POWER
F31	10A	WIPER/WASHER POWER

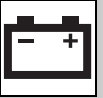
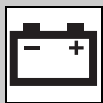


Figure 10-2 Cab Console

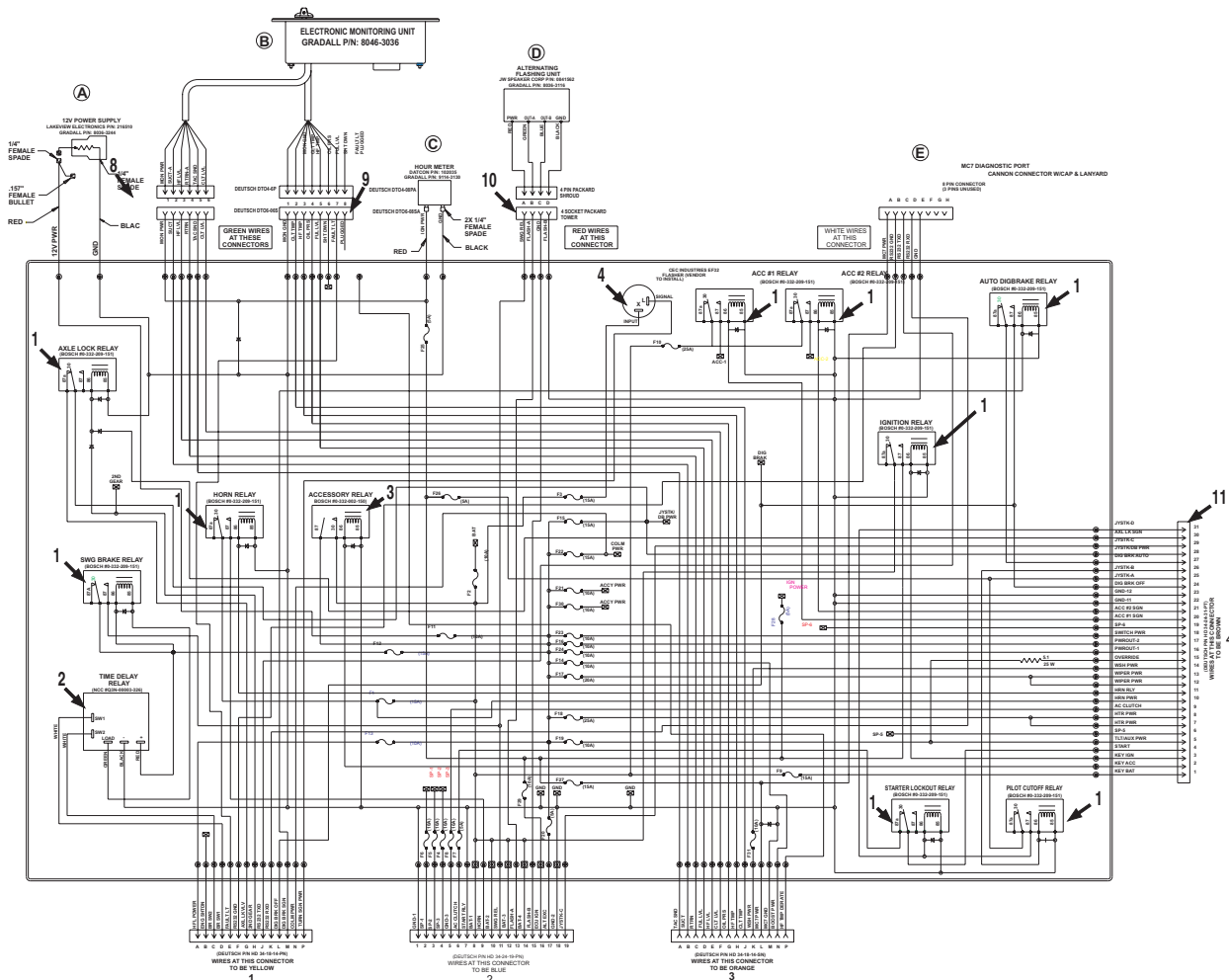
Item	Part Number	Qty.	Description	Rev.
1	80263041	1	RELAY	
2	77363265	9	RELAY	
3	77383377	1	RELAY	
4	80963061	1	TOWER	
5	80963068	1	FEMALE PIN TERMINAL	
6	80963066	AR	CABLE SEAL	
7	86984560	1	CONNECTOR	
8	80204288	1	CONNECTOR	
9	80204286	1	CONNECTOR	
10	77363225	1	CONNECTOR	



ELECTRICAL

S/N 4300000030 & After

Figure 10-2 Cab Console



FUSE#	AMP	DESIGNATION
F1	15A	HORN POWER
F2	10A	SPARE BATTERY POWER
F3	15A	FLASHER POWER
F4	10A	SP-3 (OPTION)
F5	10A	SP-2 (OPTION)
F6	10A	SP-1 (OPTION)
F7	5A	STARTER RELAY
F8	10A	A.C. CLUTCH
F9	15A	KEY SWITCH POWER
F10	25A	ACCESSORY RELAY POWER
F11	10A	12V POWER SUPPLY
F12	15A	SWING BRAKE RELEASE
F13	10A	HYD LEVEL SENDER
F14	10A	BOOST POWER
F15	15A	JOYSTICK/DIGIBRAKE POWER
F16	10A	POWER OUTLET #2
F17	20A	WIPER POWER
F18	25A	HEATER POWER
F19	10A	TILT/AUX POWER
F20	5A	ALTERNATOR EXCITE
F21	10A	SPARE ACCESSORY POWER
F22	15A	STEER COLUMN POWER
F23	10A	SWITCH/DOME LIGHT POWER
F24	10A	POWER OUTLET #1
F25	5A	EMU/HOURLMETER POWER
F26	5A	JOYSTICK PILOT CUTOFF
F27	15A	MC7 CONTROLLER POWER
F28	5A	SPARE IGNITION POWER
F29	10A	ECU IGNITION POWER
F30	10A	SPARE ACCESSORY POWER
F31	10A	W/WASHER POWER

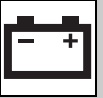
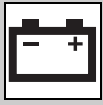


Figure 10-2 Cab Console

Item	Part Number	Qty.	Description	Rev.
	80363241	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	

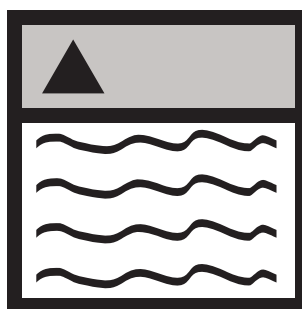


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SECTION 11

DECALS





DECALS

Figure 11-1 Decals

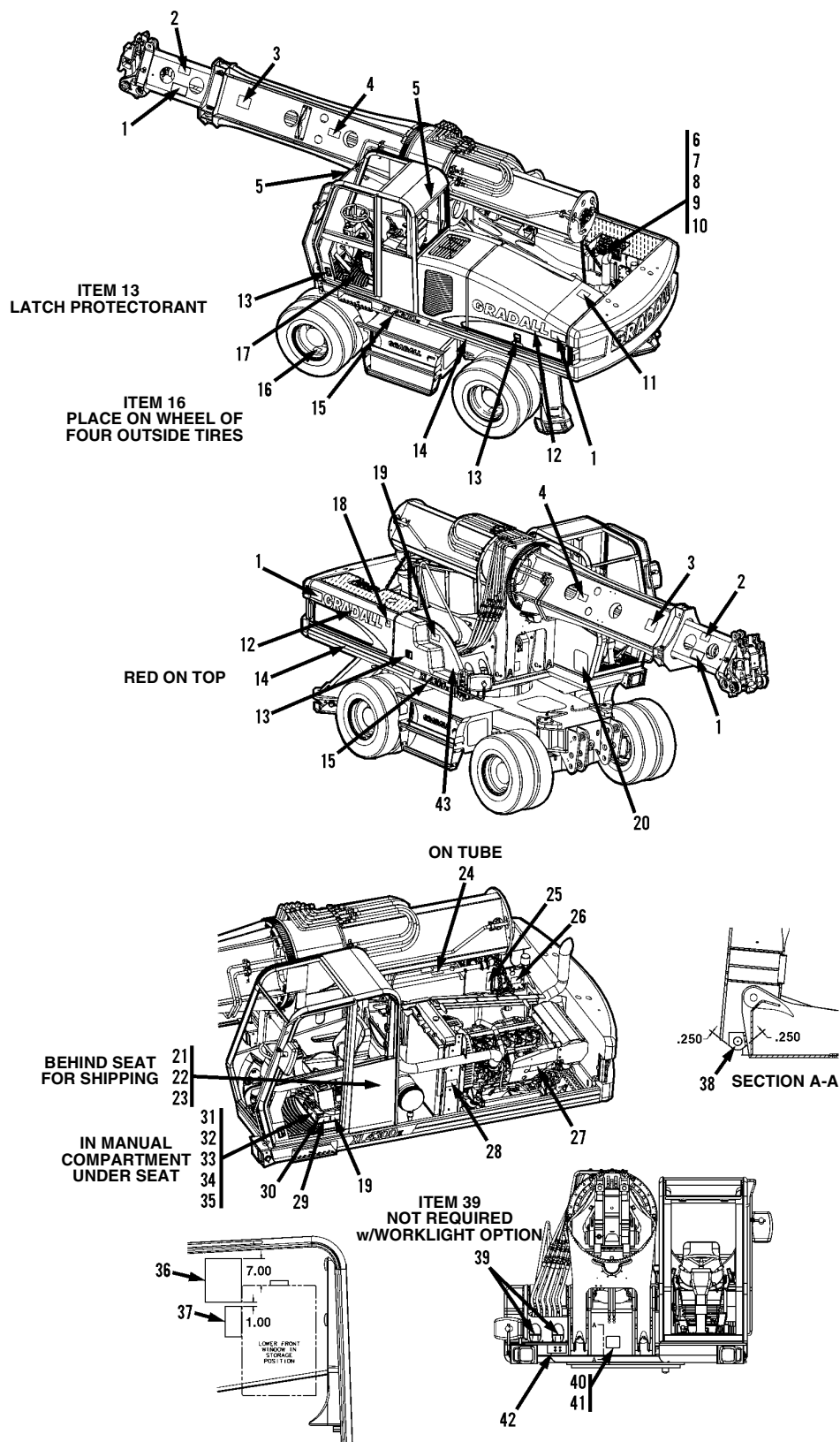




Figure 11-1 Decals

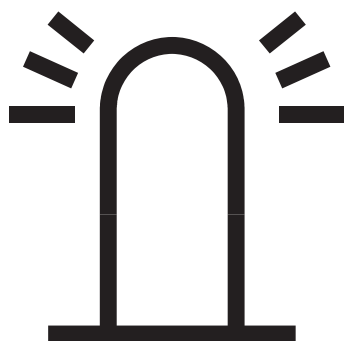
Item	Part Number	Qty.	Description	Rev.
	80433216	1	XL4300 DECAL KIT, (includes items 1 thru 5, 11, 12, 14, 15, 16, 18, 19, 20, 25 thru 30, 35 thru 38, 42 & 43)	
1	80603039	4	SWING WARNING DECAL	
2	80903017	2	NO RIDERS DECAL	
3	80333235	2	DANGER DECAL	
4	80603037	2	PINCH POINT WARNING DECAL	
5	80373066	2	REFLECTIVE STRIPE	
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	80373077	1	NO STEP DECAL	
12	80373065	2	LARGE GRADALL DECAL	
13	14404871	AR	WHITE LITHIUM GREASE	
14	80373104	2	SIDE STRIPE DECAL	
15	80433211	2	XL4300 DECAL	
16	80203009	4	TIRE PRESSURE DECAL	
17	80363163	1	FLOOR MAT	
18	80213104	1	DIESEL FUEL DECAL	
19	80603036	2	NO CLIMBING WARNING DECAL	
20	80313032	1	LUBRICATION DECAL	
21		Ref	TOOL KIT, (see rec. sp. parts list for details)	
22	80434001	1	PARTS MANUAL	
23	80434002	1	SERVICE MANUAL	
24	91143288	1	HYDRAULIC DECAL	
25	80313019	1	RESERVOIR FILL DECAL	
26	80903012	2	HYDRAULIC WARNING DECAL	
27	77363358	1	BATTERY WARNING DECAL	
28	80603138	1	WARNING DECAL	
29	77333027	1	MADE IN USA DECAL	
30	80363155	1	MANUAL DECAL	
31	80603007	1	EMI SAFETY MANUAL	
32	80473067	1	DEERE ENGINE MANUAL	
33	80434003	1	OWNER/OPERATOR MANUAL	
34	24604161	1	SAFETY MANUAL	
35	80363112	1	GRADALL OPERATING DECAL	
	80363113	1	DEERE OPERATING DECAL	
36	80433188	1	XL4300 LIFT CAPACITY	
37	80913074	1	WARNING DECAL	
38	80423047	1	BOOM POSITION DECAL	
39	80363187	2	HOLE PLUG	
40	77333047	1	SERIAL PLATE	
41	88341012	4	DRIVE SCREW, #4X5/16	
42	80463039	1	UPPER LUBRICATION DECAL	
43	80903012	1	HYDRAULIC WARNING DECAL	



DECALS

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SECTION 12 OPTIONS





OPTIONS

Figure 12-1 Air Conditioner Installation Components

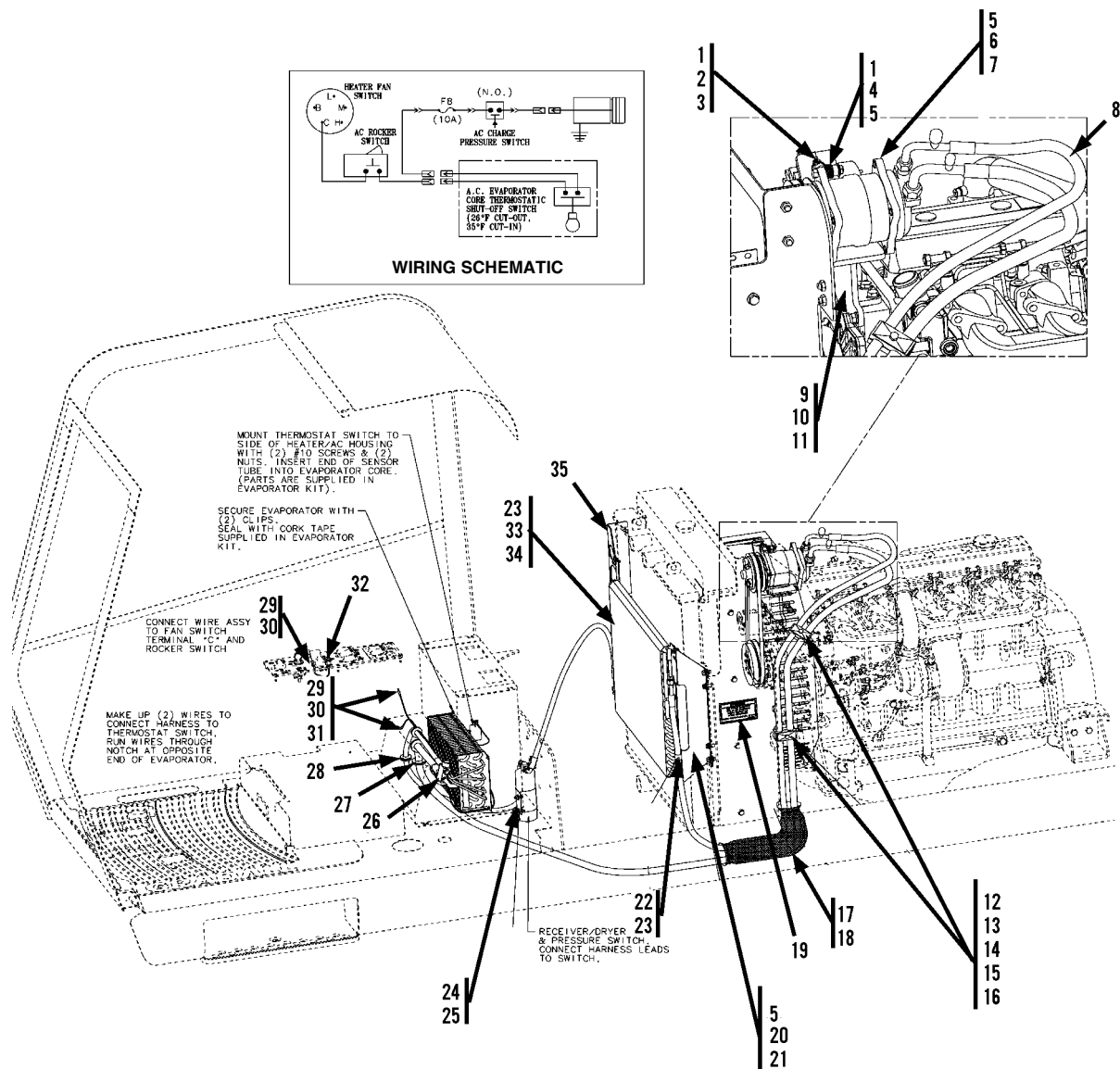




Figure 12-1 Air Conditioner Installation Components

Item	Part Number	Qty.	Description	Rev.
	80465008	1	AIR CONDITIONER INSTALLATION, (includes all items)	
1	12001234	6	HARDENED WASHER, 3/8	
2	88521206	2	NYLOK NUT, 3/8-16	
3	88681311	1	THREADED ROD END	
4	88201038	1	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
5	77143015	5	WHIZ-LOK NUT, 3/8-16	
6	80463022	1	A/C GENERAL KIT	
7	88211073	2	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8	
8	80363174	1	HOSE KIT w/O-RINGS, (see below)	
9	83191013	3	LOCKWASHER, M10	
10	11005101	4	METRIC SCREW, M10-1.5X25	
11	80373131	1	COMPRESSOR MOUNT BRACKET	
12	77323029	2	CLAMP SET	
13	77133137	3	COVER PLATE	
14	88201026	2	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
15	88521205	2	NYLOK NUT, 5/16-18	
16	88561003	2	FLAT WASHER, 5/16	
17	83953053	1	PROTECTIVE SLEEVE	
18	86683122	2	TY-RAP	
19	80373084	1	A/C DECAL	
20	80371038	1	CONDENSER BRACKET, LH	
21	80303094	2	WHIZ-LOK SCREW, 3/8-16X3/4	
22	91043147	2	SUPPORT CLAMP	
23	77143003	5	WHIZ-LOK BOLT, 5/16-18X5/8	
24	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
25	77143013	2	WHIZ-LOK NUT 1/4-20	
26	80963089	4	AIR CONDITIONER EVAPORATOR KIT, (see Figure 12-2 for details)	
27	86561279	2	GROMMET	
28	86961044	2	GROMMET	
29		8'	WIRE, 16 GA	
30	86983195	4	FEMALE SPADE, 1/4	
31	86983193	2	BULLET CONNECTOR	
32	80363030	1	ROCKER SWITCH	
33	77143006	4	WHIZ-LOK NUT, 5/16-18	
34	80363092	1	AIR CONDITIONER CONDENSER	
35	80471054	1	CONDENSER BRACKET, RH	
	80363174	1	HOSE KIT w/O-RINGS, (includes the following items)	
	80363095	1	HOSE ASSY, (condenser to receiver dryer), (includes following item)	
	80363102	4	O-RING	
	80363096	1	HOSE ASSY, (receiver dryer to evaporator), (includes two of preceding item)	
	80363176	1	HOSE ASSY, (compressor to condenser), (includes following item)	
	80363103	2	O-RING	
	80363177	1	HOSE ASSY, (compressor to evaporator), (includes following item)	
	80363104	2	O-RING	
	80463022	1	AIR CONDITIONER GENERAL KIT, (includes the following items)	



OPTIONS

Figure 12-1 Air Conditioner Installation Components (Continued)

Item	Part Number	Qty.	Description	Rev.
	80963227	1	COMPRESSOR	
	80363099	1	PRESSURE SWITCH	
	80363100	1	RECEIVER DRYER	
	80963124	1	RECEIVER DRYER BRACKET	
	80473063	1	BOLT & BELT KIT	
	80363102	2	O-RING	
	80363103	1	O-RING	
	80363104	1	O-RING	
	12001234	6	HARDENED WASHER, 3/8	
	80373131	1	COMPRESSOR MOUNT BRACKET	
	80303094	2	WHIZ-LOK BOLT, 3/8-16X3/4	
	77143015	5	WHIZ-LOK NUT, 3/8-16	
	88521206	2	NYLOK NUT, 3/8-16	
	88201038	1	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
	88201026	2	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
	88201003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
	77143013	2	WHIZ-LOK NUT, 1/4-20	
	88211073	4	HEX SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8	
	83191013	3	LOCKWASHER	
	77143003	5	WHIZ-LOK NUT, 5/16-18X5/8	
	77143006	4	WHIZ-LOK NUT, 5/16-18	
	11005101	3	METRIC SCREW, M10-1.5X25	
	80263012	4	WHIZ-LOK BOLT, 1/4-20X1/2	
	80373085	1	SHIM KIT	
	88681311	1	THREADED ROD END	
	88521205	2	NYLOK NUT, 5/16-18	
	88561003	2	FLAT WASHER, 5/16	



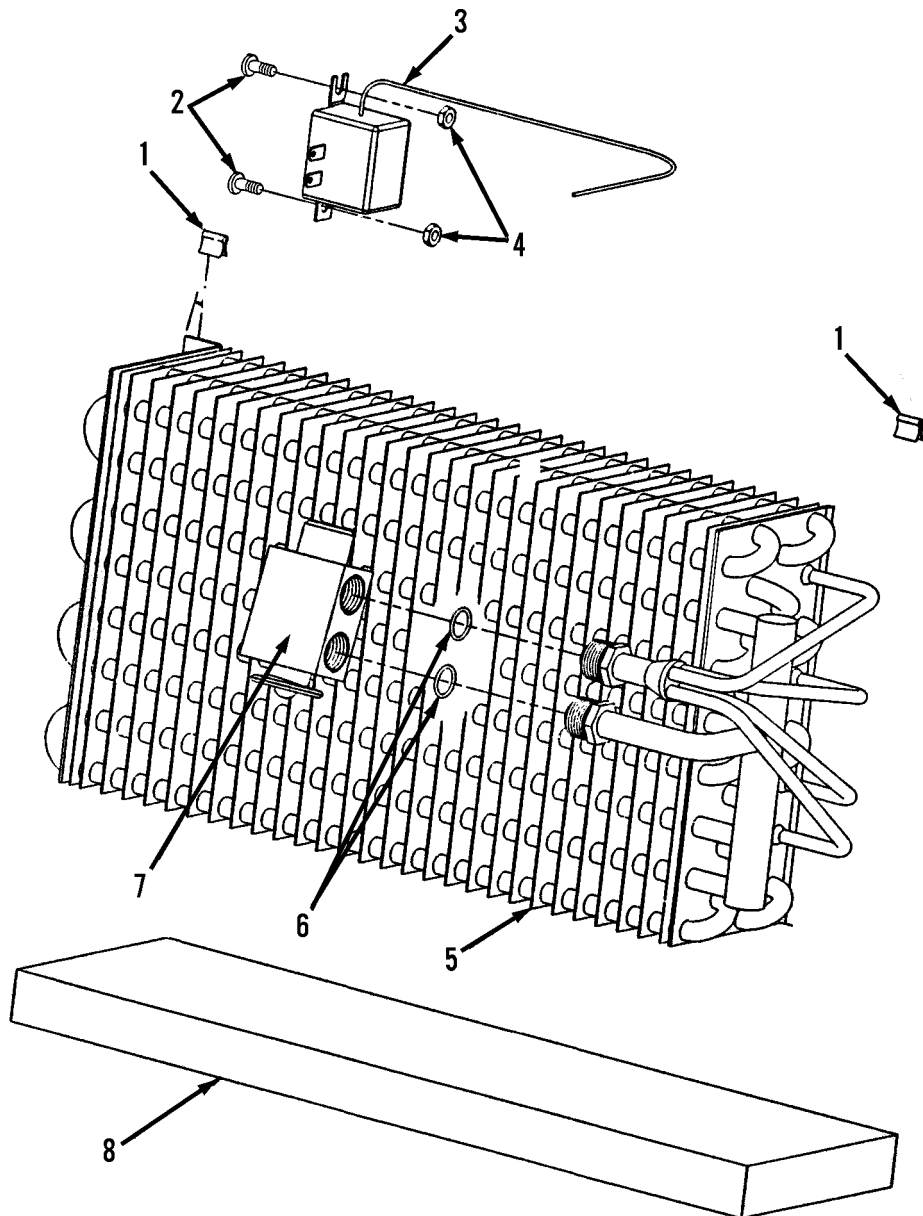
Figure 12-1 Air Conditioner Installation Components (Continued)

Item	Part Number	Qty.	Description	Rev.



OPTIONS

Figure 12-2 Air Conditioner Evaporator Installation Components



NOTE:

1. EXPANSION VALVE TO BE ASSEMBLED TO EVAPORATOR CORE w/O-RINGS IN PLACE & TUBE NUTS TORQUED.
2. OPEN PORTS OF EXPANSION VALVE TO BE SEALED.
3. ALL OTHER ITEMS TO BE SHIPPED LOOSE.



Figure 12-2 Air Conditioner Evaporator Installation Components

Item	Part Number	Qty.	Description	Rev.
1	80963310	2	SPRING CLIP	
2	88301193	2	MACHINE SCREW, #10-32X1/2	
3	80963092	1	THERMOSTATIC SHUT-OFF SWITCH, (preset: 26 degrees F/cut-out - 35 degrees F/cut-in)	
4	88501613	2	HEX NUT, #10-32	
5	80963090	1	EVAPORATOR CORE	
6	80364082	2	O-RING	
7	80963091	1	EXPANSION VALVE	
8	80363108	1	DRAIN PAD	
9	80363109	24"	CORK TAPE, (not shown)	
	80963089	1	AIR CONDITIONER EVAPORATOR KIT, (includes all items)	



OPTIONS

Figure 12-3 Auxiliary Hydraulic Valve Field Installation Components

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Figure 12-3 Auxiliary Hydraulic Valve Field Installation Components

Item	Part Number	Qty.	Description	Rev.



OPTIONS

Before S/N 0210017731

Figure 12-4 Blade Cylinder Assembly

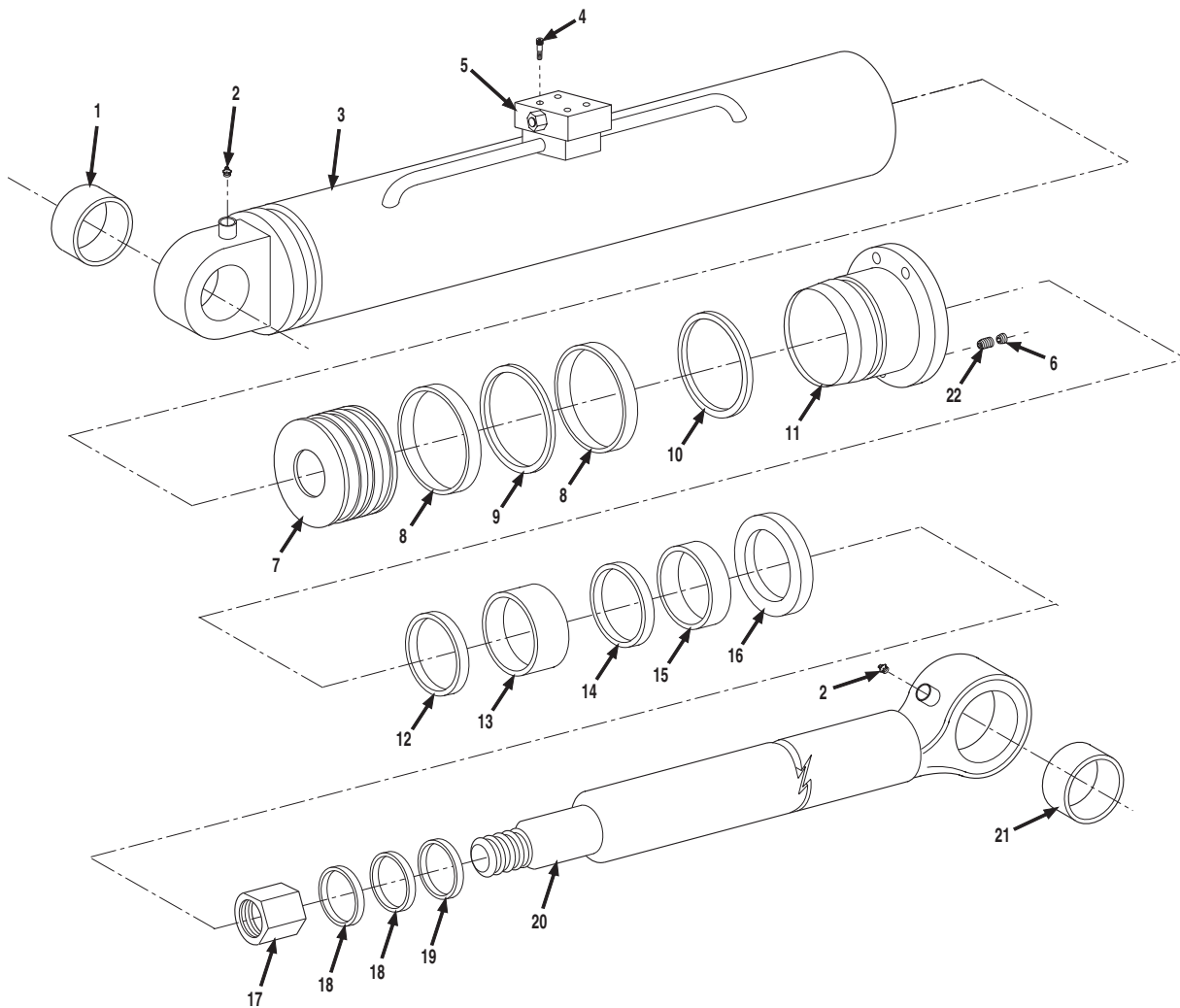




Figure 12-4 Blade Cylinder Assembly

Item	Part Number	Qty.	Description	Rev.
	80005138	2	BLADE CYLINDER ASSY, (includes all items)	
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	OUTRIGGER VALVE BLOCK ASSY, (see Figure 9-39 for details)	
6	88231005	1	SOCKET HOLLOW LOCK SCREW, 1/4-20	
7	80001703	1	PISTON	
8	80003736	2	BEARING	
9		1	PISTON SEAL	
10		1	STATIC SEAL	
11	80001702	1	CYLINDER HEAD	
12		1	INGESTION RING	
13		1	BEARING	
14		1	ROD SEAL	
15		1	BEARING	
16		1	ROD WIPER	
17	80003679	1	CYLINDER NUT	
18		2	BACK-UP O-RING	
19		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	1	PACKING KIT, (includes items 9, 10, 12, 13, 14, 15, 16, 18 & 19)	



OPTIONS

S/N 0210017731 thru 0210018098
& 4300000029 & After

Figure 12-4 Blade Cylinder Assembly

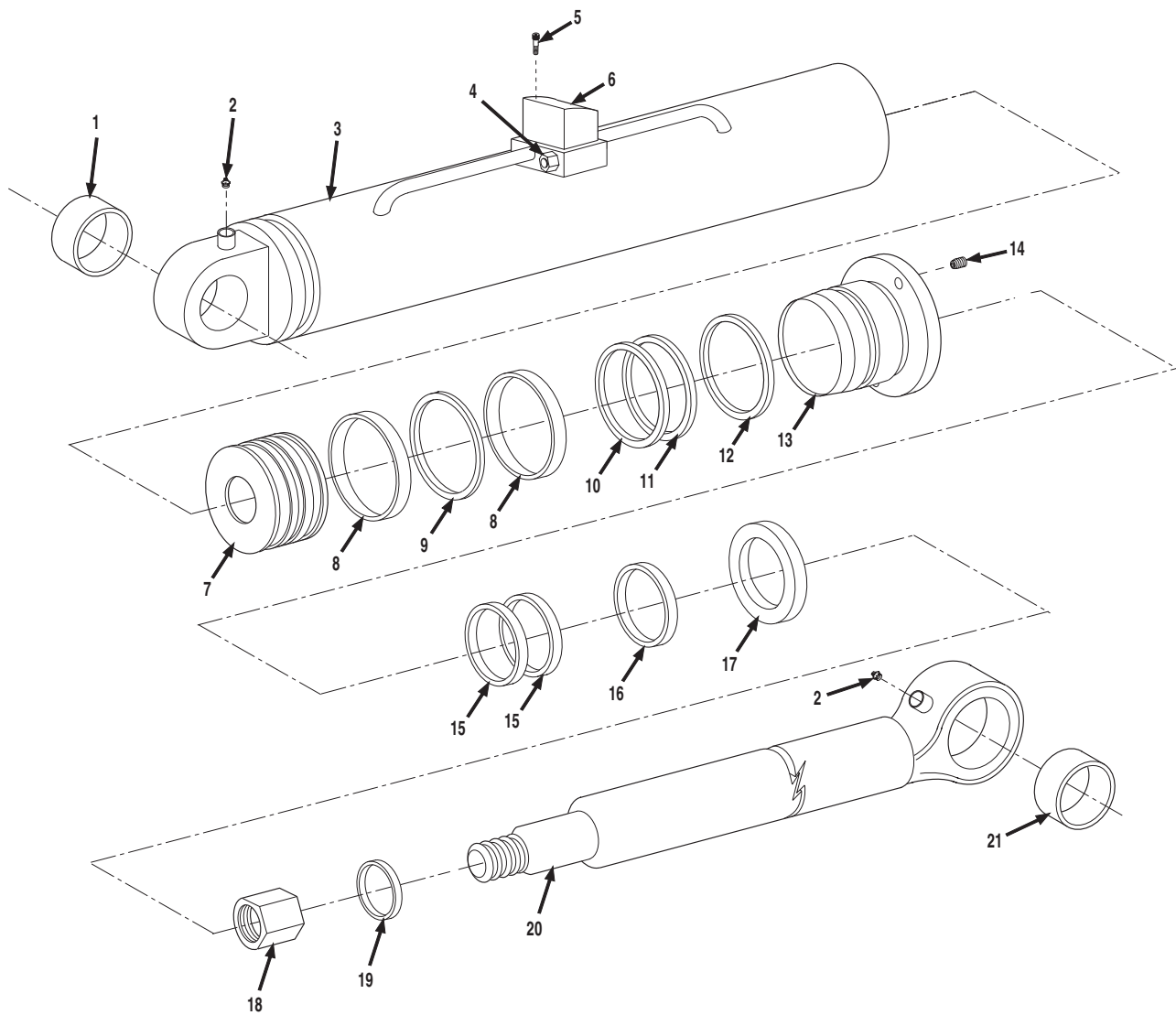




Figure 12-4 Blade Cylinder Assembly

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)	



OPTIONS

Figure 12-5 Blade Selector Valve Assembly

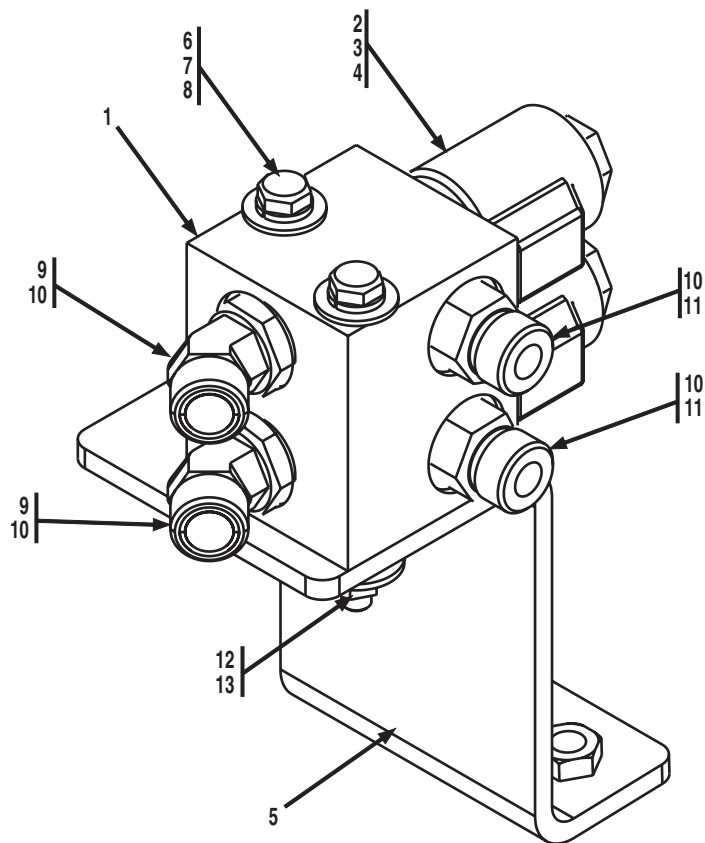




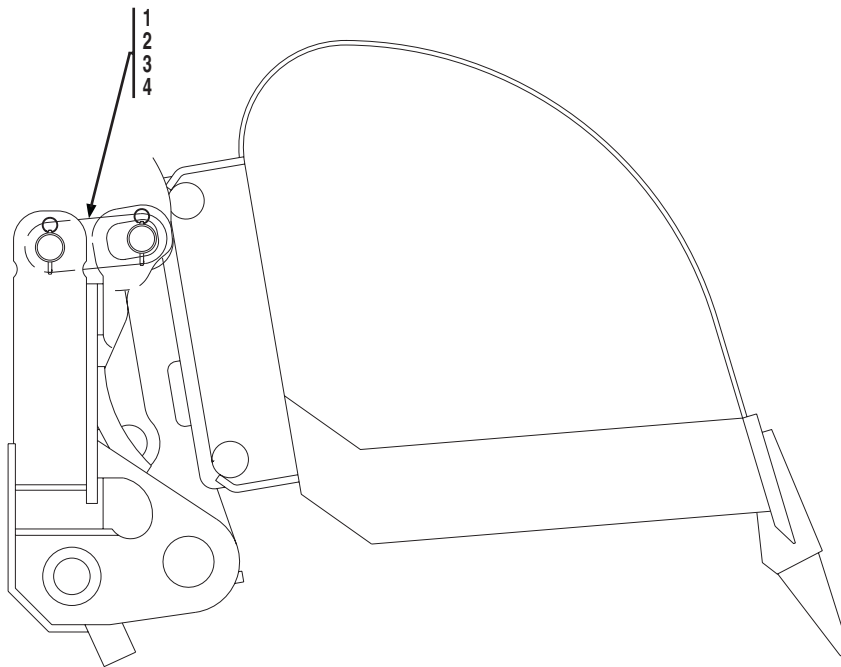
Figure 12-5 Blade Selector Valve Assembly

Item	Part Number	Qty.	Description	Rev.
	80435009	1	BLADE SELECTOR VALVE ASSY, (includes all items)	
	80333116	1	BLADE SELECTOR VALVE ASSY, (includes items 1 thru 4)	
1		1	VALVE BLOCK	
2	80334511	2	SOLENOID	
	91204190	1	SOLENOID SEAL KIT	
3	80334510	2	COIL	
4	80963057	2	WEATHER PACK TOWER	
5	80431024	1	VALVE MOUNT BRACKET	
6	83201069	2	HEX HD CAPSCREW, 5/16-18X4	
7	88561003	2	FLAT WASHER, 5/16	
8	88551010	2	LOCKWASHER, 5/16	
9	88662419	2	ELBOW, 45 DEGREES, (includes item 10)	
10	88591205	4	O-RING	
11	88662302	2	CONNECTOR, (includes item 10)	
12	88521305	2	HEX LOCKNUT, 5/16-18	
13	88561004	2	FLAT WASHER, 3/8	
	80334512	1	SEAL KIT	



OPTIONS

Figure 12-6 Bucket Hold Open Kit



NOTE:

1. HOLD OPEN LINK IS TO BE INSTALLED w/BUCKET IN FULL OPEN POSITION.
2. HOLD OPEN LINK IS TO BE REMOVED BEFORE BUCKET IS OPERATED.



Figure 12-6 Bucket Hold Open Kit

Item	Part Number	Qty.	Description	Rev.
	80625026	1	BUCKET HOLD OPEN KIT, (includes all items)	
1	80626050	1	LINK WELDMENT	
2	80621235	1	LINK SIDE PLATE	
3	80651140	1	PIN	
4	80623065	3	QUICK RELEASE PIN, 1/4"	



OPTIONS

Figure 12-7 Chassis Mounted Blade Installation Components

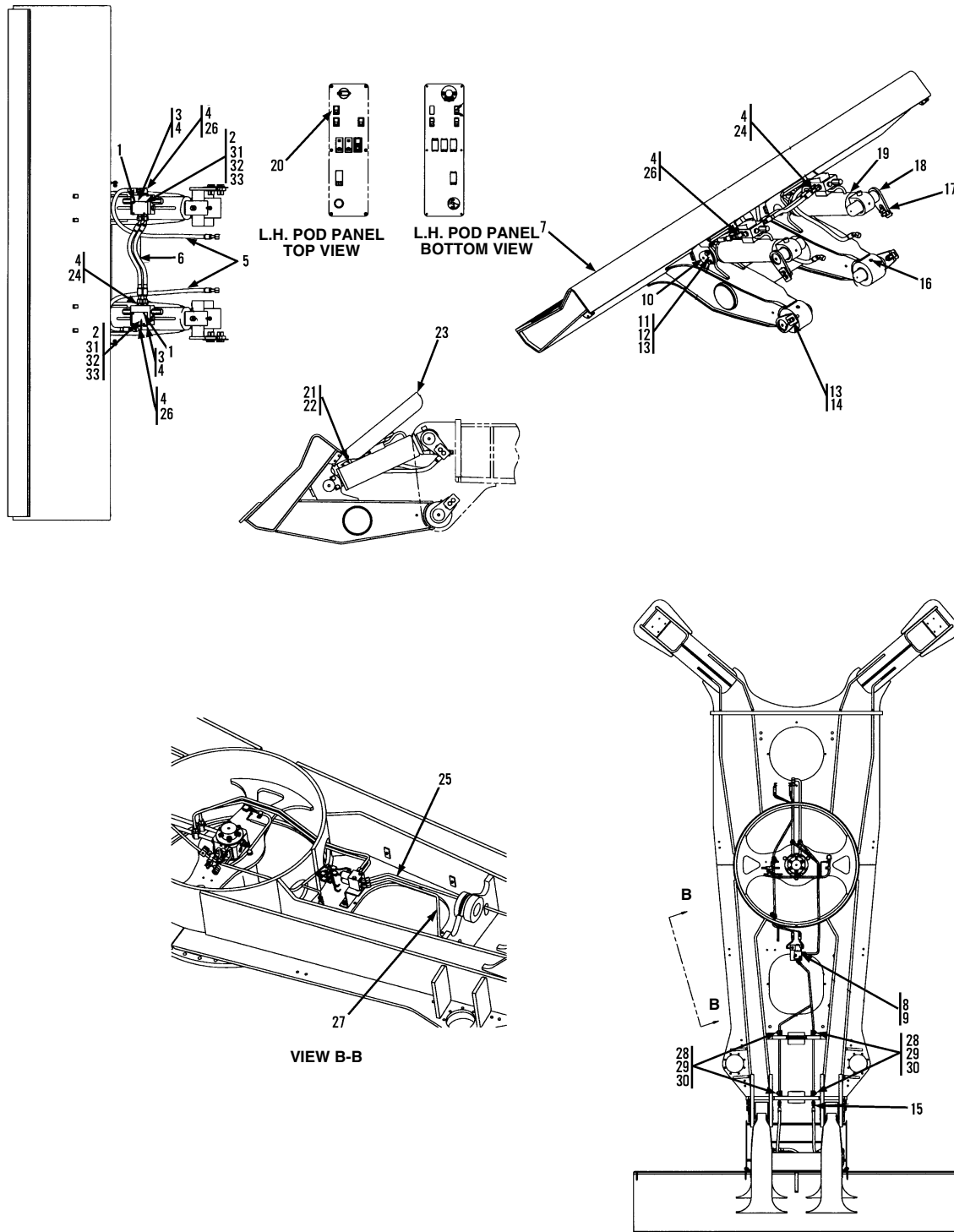



Figure 12-7 Chassis Mounted Blade Installation Components

Item	Part Number	Qty.	Description	Rev.
	80435011	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	8	O-RING	
5	84719076	2	HOSE ASSY	
6	84719640	2	HOSE ASSY	
7	80436006	1	BLADE WELDMENT	
8		Ref	BLADE SELECTOR VALVE, (see Figure 12-5 for details)	
9	91163196	2	WHIZ-LOCK SCREW, 3/8-16X1-3/4	
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	88591506	2	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 12-4 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	4	CONNECTOR, (includes item 4)	
25	80433067	1	TUBE ASSY	
26	88662330	2	CONNECTOR, (includes item 4)	
27	80433066	1	TUBE ASSY	
28	77133177	4	HEX HD CAPSCREW	
29	77133140	4	COVER PLATE	
30	77133168	4	CLAMP SET	
31	80333205	4	O-RING	
32	80433210	2	VALVE, (seal kit 80434383)	
33	88211048	8	SOCKET HD CAPSCREW, 1/4-20X2-1/2, GR8	



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Figure 12-8 Cold Start Installation Components

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Figure 12-8 Cold Start Installation Components

Item	Part Number	Qty.	Description	Rev.



OPTIONS

Figure 12-9 Engine Block Heater Installation Components

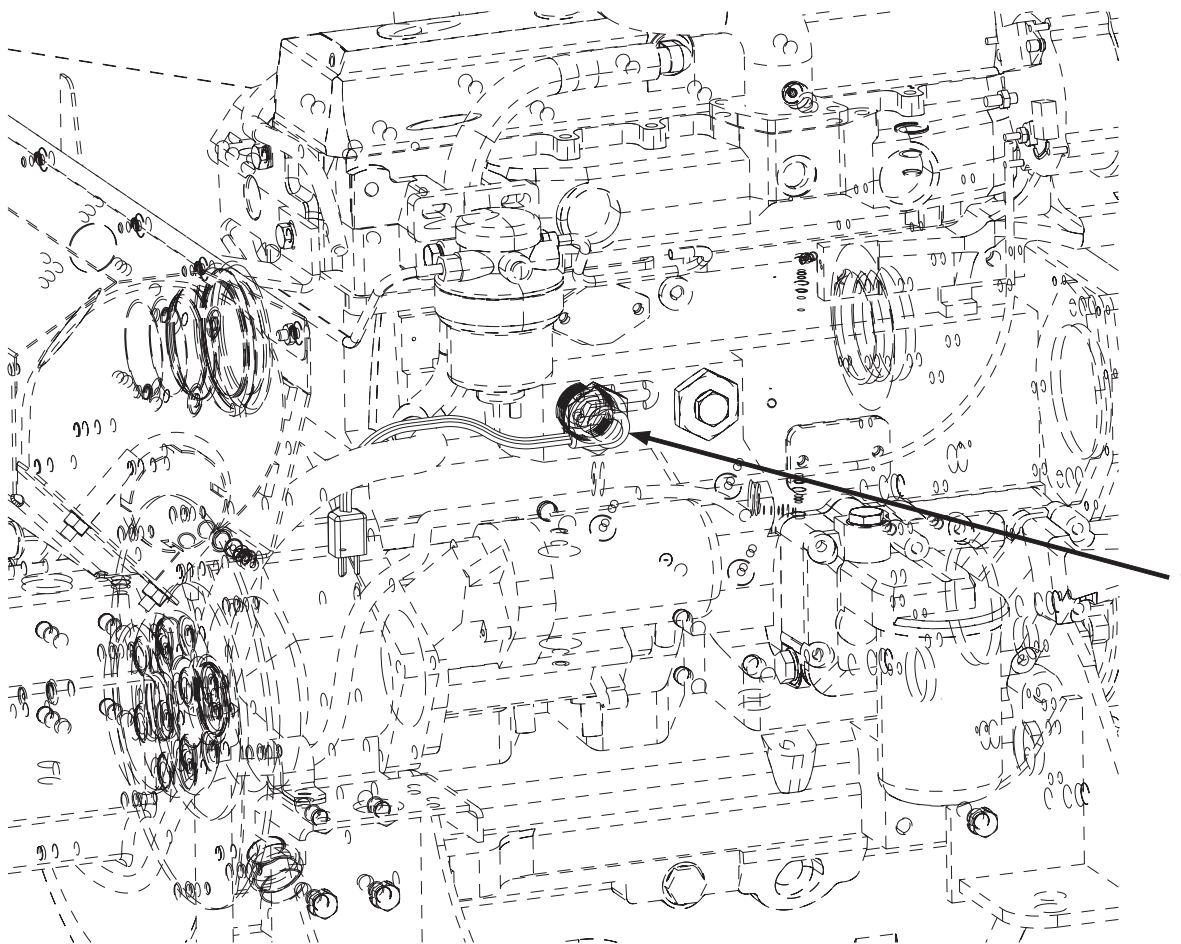




Figure 12-9 Engine Block Heater Installation Components

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



OPTIONS

Figure 12-10 Four Line Hose Trough Installation Components

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Figure 12-10 Four Line Hose Trough Installation Components

Item	Part Number	Qty.	Description	Rev.



OPTIONS

Figure 12-11 Front Outrigger Installation Components

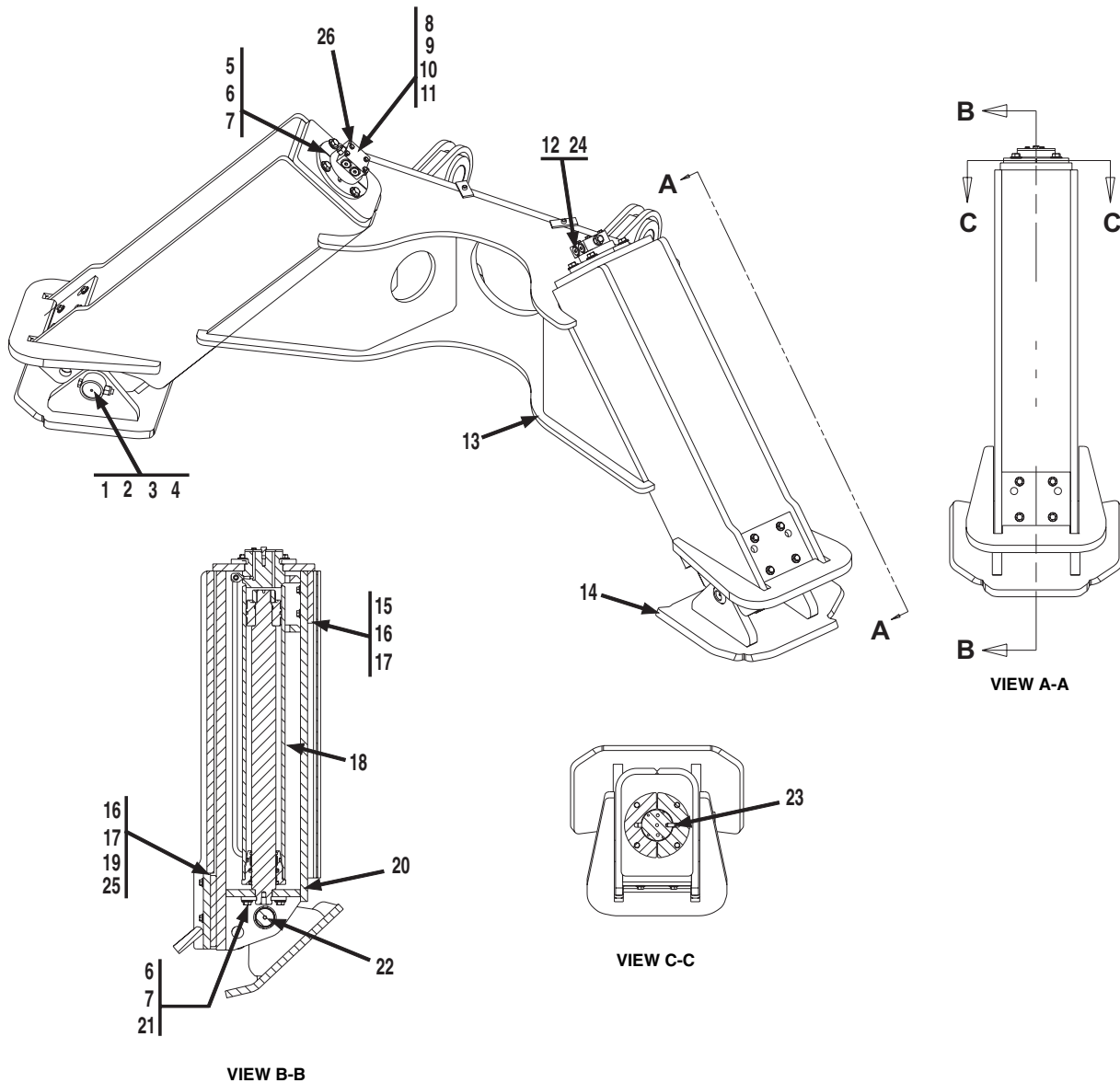




Figure 12-11 Front Outrigger Installation Components

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 68-78 lb-ft)	
8		Ref	VALVE BLOCK ASSY, (see Figure 9-39 for details)	
9	88201008	8	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5, (torque to 9-12 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	80303077	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 32-37 lb-ft)	
18		Ref	OUTRIGGER CYLINDER, (see Figure 9-4 for details)	
19	80303078	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	
25	80301200	4	KEEPER	
26	88221249	8	SOCKET SET SCREW, #10-24X3/8	



OPTIONS

Figure 12-12 Front Outrigger Installation Components

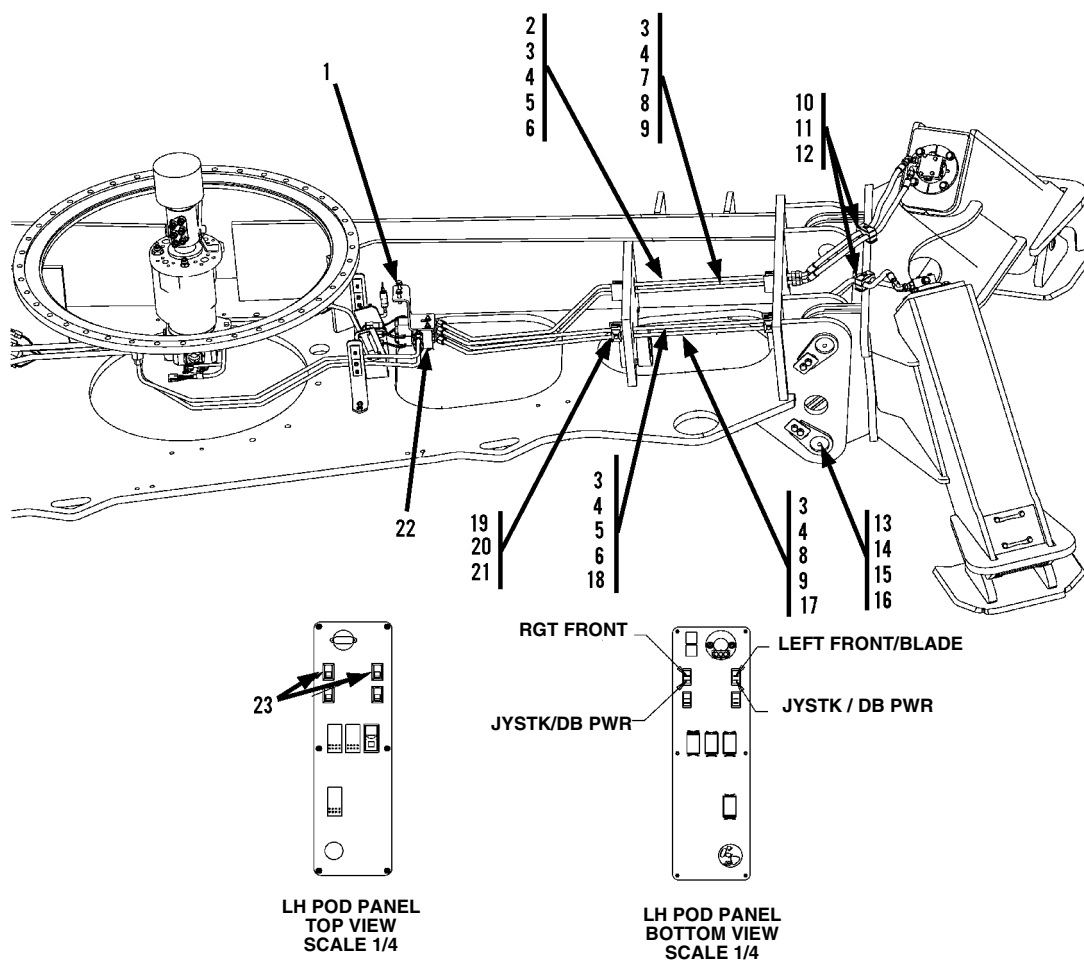




Figure 12-12 Front Outrigger Installation Components

Item	Part Number	Qty.	Description	Rev.
1	91163196	1	WHIZ-LOK SCREW, 3/8-16X1-3/4	
2	80433070	1	TUBE ASSY	
3	88591506	4	O-RING	
4	84719730	4	HOSE ASSY	
5	88662310	2	CONNECTOR, (includes item 9)	
6	88662371	2	ELBOW, 90 DEGREES, (swivel nut)	
7	80433071	1	TUBE ASSY	
8	88662432	2	ELBOW, 90 DEGREES. (includes item 9)	
9	88591205	4	O-RING	
10	77133137	2	COVER PLATE	
11	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
12	77133136	2	CLAMP	
13	80356012	4	PIN WELDMENT	
14	80356013	4	KEEPER BLOCK WELDMENT	
15	88201068	8	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
16	88551013	8	LOCKWASHER, 1/2	
17	80433069	1	TUBE ASSY	
18	80433068	1	TUBE ASSY	
19	77133177	4	HEX HD CAPSCREW, 5/16-18X1-3/8	
20	77133168	4	CLAMP SET	
21	77133140	4	COVER PLATE	
22	80333115	1	OUTRIGGER SELECTOR VALVE	
23	80363030	2	MINI-ROCKER SWITCH	



OPTIONS

Figure 12-13 Lexan Glass Installation Components

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Figure 12-13 Lexan Glass Installation Components

Item	Part Number	Qty.	Description	Rev.



OPTIONS

Figure 12-14 Light Installation Components

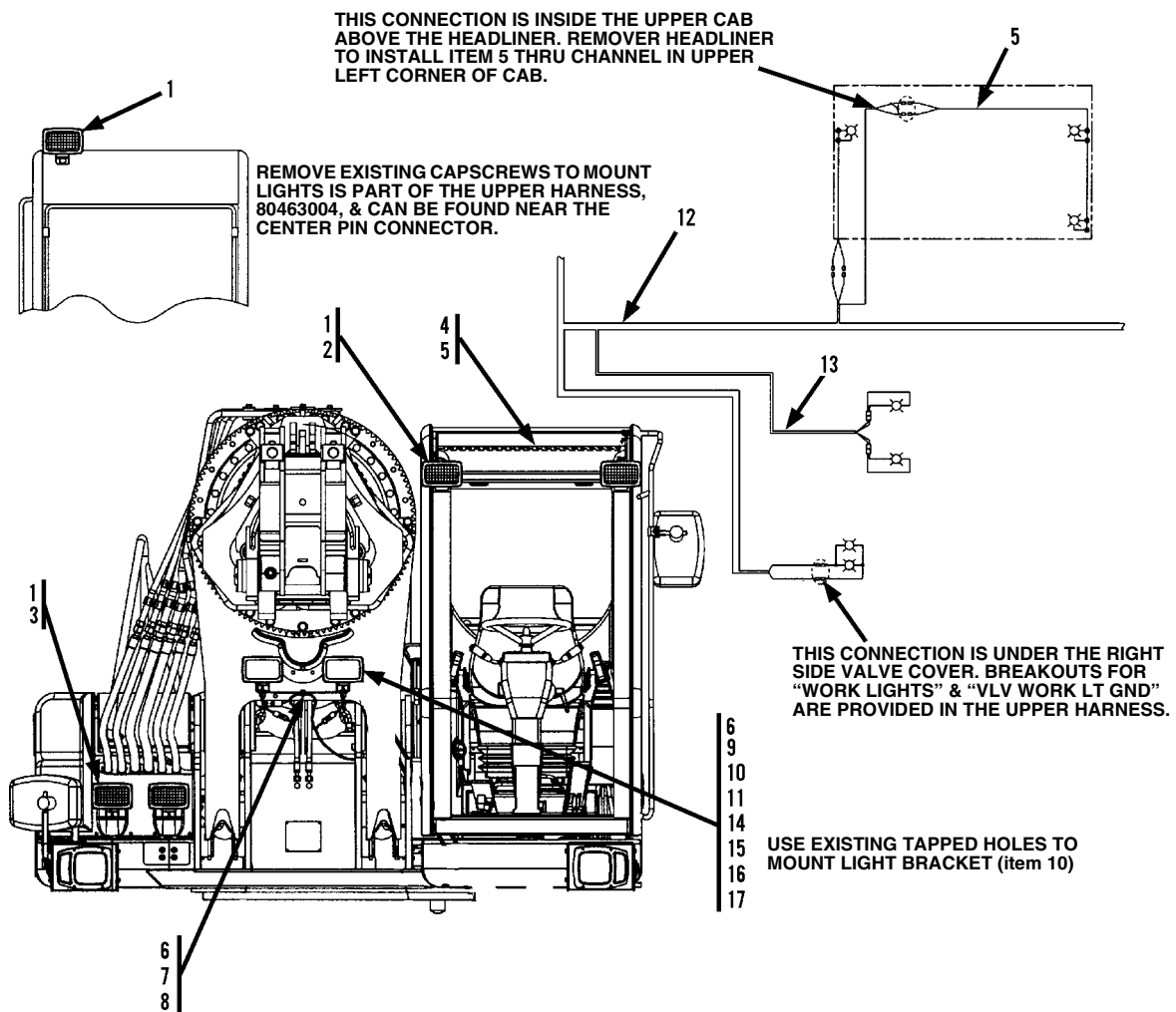




Figure 12-14 Light Installation Components

Item	Part Number	Qty.	Description	Rev.
	80465006	1	LIGHT INSTALLATION, (includes all items)	
1	80963050	5	FLOOD LIGHT	
2	80363038	2	SPACER	
3	88561006	2	FLAT WASHER, 1/2	
4	80363040	1	WIRING DUCT	
5	80363094	1	CAB WORK LIGHT HARNESS	
6	88201033	3	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
7	77143015	1	WHIZ-LOK NUT, 3/8-16	
8	86621230	1	SUPPORT CLAMP	
9	80965011	2	BOOM LIGHT ASSY, (includes items 14 thru 17)	
10	80361029	1	LIGHT BRACKET	
11	88551011	2	LOCKWASHER, 3/8	
12	80463004	1	UPPER HARNESS	
13	86683122	6	TY-RAP	
14	80963058	2	SHROUD CONNECTOR	
15	80963069	4	MALE TERMINAL	
16	80963066	4	CABLE SEAL	
17	80963051	2	UTILITY SPOT LIGHT	



OPTIONS

Figure 12-15 H.I.D. Light Installation Components

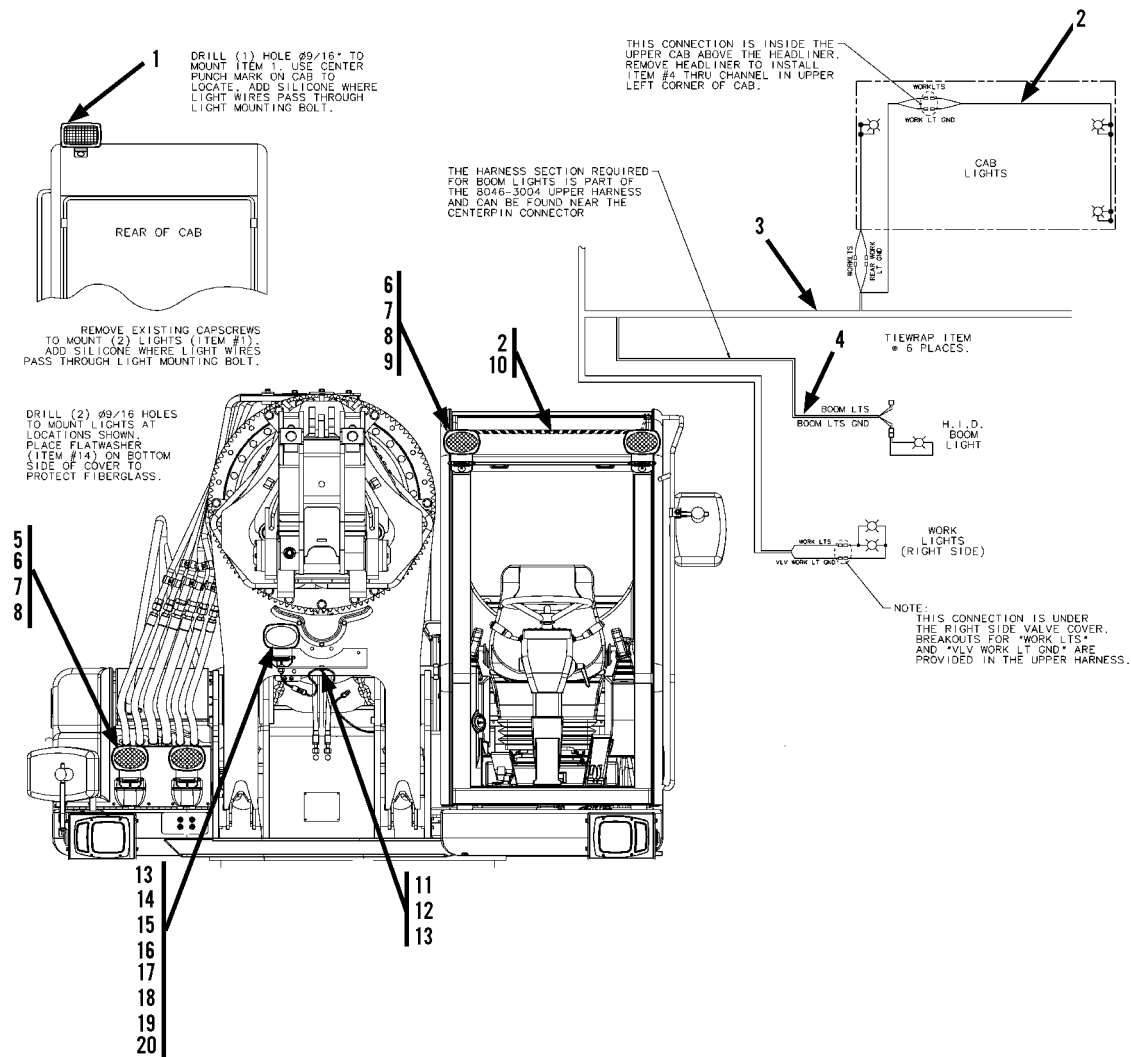




Figure 12-15 H.I.D. Light Installation Components

Item	Part Number	Qty.	Description	Rev.
	80465007	1	H.I.D LIGHT INSTALLATION, (includes all items)	
1	80963050	4	FLOOD LIGHT	
2	80363094	1	CAB WORK LIGHT HARNESS	
3	80463004	1	UPPER HARNESS	
4	86683122	6	TY-RAP	
5	88561006	2	FLAT WASHER, 1/2	
6	80993162	4	H.I.D. FLOOD LIGHT	
7	77163105	4	BULLET TERMINAL, (female)	
8	86983193	4	BULLET TERMINAL, (male)	
9	80363038	2	SPACER	
10	80363040	1	WIRING DUCT	
11	86621230	1	SUPPORT CLAMP	
12	77143015	1	WHIZ-LOK NUT, 3/8-16	
13	88201033	3	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
14	88551011	2	LOCKWASHER, 3/8	
15	80361029	1	LIGHT BRACKET	
16	80965055	1	H.I.D BOOM LIGHT ASSY, (includes items 17 thru 20)	
17	80993161	1	H.I.D SPOT LIGHT	
	80994025	1	OVAL BULB REPLACEMENT	
18	80963058	1	SHROUD CONNECTOR	
19	80963069	2	MALE TERMINAL	
20	80963066	2	CABLE SEAL	



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Figure 12-16 AM/FM Cassette Stereo Installation

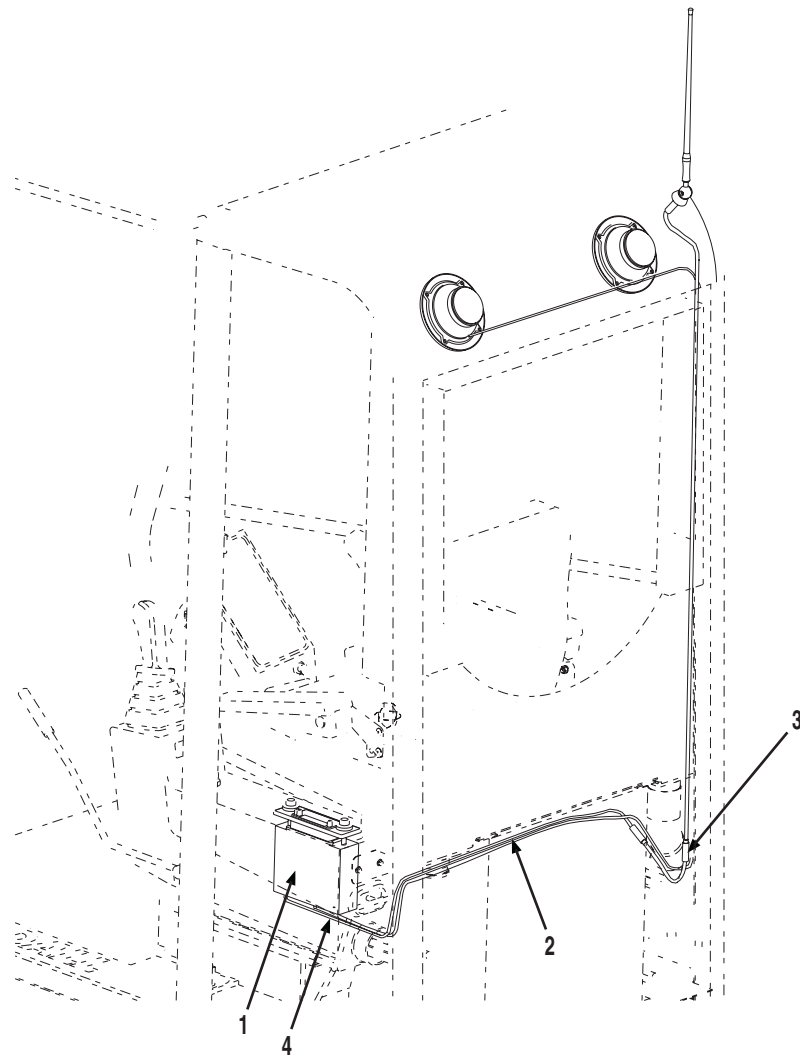




Figure 12-16 AM/FM Cassette Stereo Installation

Item	Part Number	Qty.	Description	Rev.
	80465012	Ref	RADIO INSTALLATION, (includes all items)	
1	80263028	1	RADIO KIT, (includes antenna & speakers)	
2	80363120	1	ANTENNA LEAD EXT., 48"	
3	80363121	1	ANTENNA LEAD EXT., 12"	
4	77383472	7	BUTT CONNECTOR, (red)	



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Figure 12-17 Vandal Cover Installation Components

**INFORMATION FOR THIS PAGE WAS
UNAVAILABLE AT THE TIME OF PUBLICATION**



Figure 12-17 Vandal Cover Installation Components

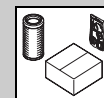
Item	Part Number	Qty.	Description	Rev.



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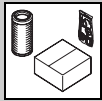
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RECOMMENDED SPARE PARTS



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		
80923009	Boom Cradle Pivot Bushing, (see Figure 2-1)	2
80323039	Wear Pad, (see Figure 2-3)	6
83625044	Concave Roller, (see Section 2)	1
83625043	Convex Roller, (see Section 2)	1
80425010	Inner Roller, (see Section 2)	4
80423005	Eccentric Shaft, (see Section 2)	8
80421109	Roller Adjustment Plate, (see Section 2)	8
88291067	Keeper, (see Sections 2 & 8)	6
80326011	Pin Weldment, (see Figure 1-4)	2
80926014	Pin Weldment, (see Sections 2, 3 & 8)	13
80926012	Pin Weldment, (see Sections 1 & 3)	3
80921074	Pin Weldment, (see Sections 2 & 3)	5
80423042	Bushing, (see Sections 2, 3, 9 & 12)	10
80921159	Rectangle Washer, (see Figure 2-5)	2
80921174	High Nut, (see Figure 2-5)	2
80926029	Wedge Bolt, (see Figure 2-5)	2
88551018	Lockwasher, (see Figure 2-5)	2
80323047	Bushing, (see Sections 2 & 3)	10
Engine		
80474018	Engine Filter Kit, (see Figure 4-2)	1
80374075	Fuel Tank Cap, (see Figure 4-7)	1
80473032	Fan, (see Figure 4-1)	1
80474021	Fan Belt, (see Figure 4-2)	1
Drive Train		
80304026	Bushing, (see Figure 5-12)	2
80304050	Bushing, (see Figure 5-15)	2
80304027	Shaft Seal, (see Figure 5-12)	4
80304173	Shaft Seal, (see Figure 5-16)	3
80304086	Shaft Seal, (see Figure 5-14)	2
Hydraulics		
80433208	Joystick Assembly, R.H., (see Figure 7-1)	1
80433207	Joystick Assembly, 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
80443004	Hoist Cylinder Packing Kit, (Before S/N 021007848) , (see Figure 9-1)	1
80004144	Hoist Cylinder Packing Kit, (S/N 021007848 & After) , (see Figure 9-1)	1
80223073	Boom Cylinder Packing Kit, (see Figure 9-2)	1
80423031	Tool Cylinder Packing Kit, (Before S/N 021007848) , (see Figure 9-3)	1
80004086	Tool Cylinder Packing Kit, (S/N 021007848 & After) , (see Figure 9-3)	1
80484089	Swing Motor Seal Kit, (see Figure 9-19)	1
80273008	Replacement In-Line Filter Element, (see Figure 9-16)	2
80933068	Hydraulic System Breather, (see Figure 9-16)	1
80373052	Hydraulic Level Gauge, (see Figure 9-16)	1

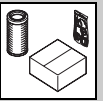


RECOMMENDED SPARE PARTS

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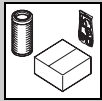
Part Number	Description	Qty./Machine
80434166	Main Pump Seal Kit, (see Section 9)	2
80334404	Center Pin Seal Kit, (see Figure 9-26)	1
80003728	Outrigger Cylinder Seal Kit, (Before S/N 021007731) , (see Figure 9-4)	1
80004061	Outrigger Cylinder Seal Kit, (S/N 021007731 & After) , (see Figure 9-4)	1
80433100	Oscillation Cylinder Seal Kit, (Before S/N 021007758) , (see Figure 9-5)	1
80004071	Oscillation Cylinder Seal Kit, ((S/N 021007758 & After) , see Figure 9-5)	1
80003738	Blade Cylinder Seal Kit, (Before S/N 021007731) , (see Figure 12-4)	1
80004099	Blade Cylinder Seal Kit, (S/N 021007731 & After) , (see Figure 12-4)	1
Electrical		
77383752	Water Temp Sender, (see Figure 4-2)	1
91033246	Oil Pressure Sender, (see Figure 4-1)	1
80373014	Fuel Level Sender, (see Figure 4-7)	1
77383377	Starter Relay, (see Sections 4 & 10)	1
91033317	Ignition Switch, (see Figure 6-4)	1
80973108	Alternator, (see Figure 4-2)	1
91413104	Starter, (see Figure 4-2)	1
91143357	Horn, (see Figure 1-2)	2
91404320	Travel Alarm, (see Figure 1-2)	1
80964001	Blower Switch, (see Figure 6-4)	1
91403304	Carling Switch, (see Figure 6-4)	6
80363107	Carling Switch, (see Figure 6-4)	2
80963220	Hydraulic Temperature Sender, (see Figure 9-16)	1
80933061	Hydraulic Level Probe, (see Figure 9-16)	1
80233077	Suction Switch, (see Figure 8-1)	1
80433221	Main Control Valve Pressure Switch, (see Figure 8-3)	1
80333100	Pressure Switch, (see Figure 8-6)	2
Misc		
80364121	Door Key	1
77384578	Ignition Key	1
80904003	Hydraulic Test Kit	1
24604083	ORS O-Ring Kit	1
77364247	O-Ring Value Kit	1
80904001	XL O-Ring Kit	1
80474030	Parts Manual	1
80474031	Service Manual	1
80373102	Operator & Safety Manual	1
S4404994	Dark Gray Spray Paint	1
S4404070	Spray Primer Paint	1
S4404997	Light Gray Spray Paint	1
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

RECOMMENDED SPARE PARTS



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Part Number	Description	Qty./Machine
86641305	Gear Lube Gun	1
80421115	Spider Nut Wrench	1
83623027	Dust Plug	1
83451128	Female Quick Coupling	1
14404645	Boeshield, (12 oz.)	1



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