



Illustrated Parts Manual

***Model
1044C-54
Series II***

31200069

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SECTION 1 - FRAME AND ATTACHING PARTS

SECTION 1 - FRAME AND ATTACHING PARTS

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SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. MAIN FRAME ASSEMBLY

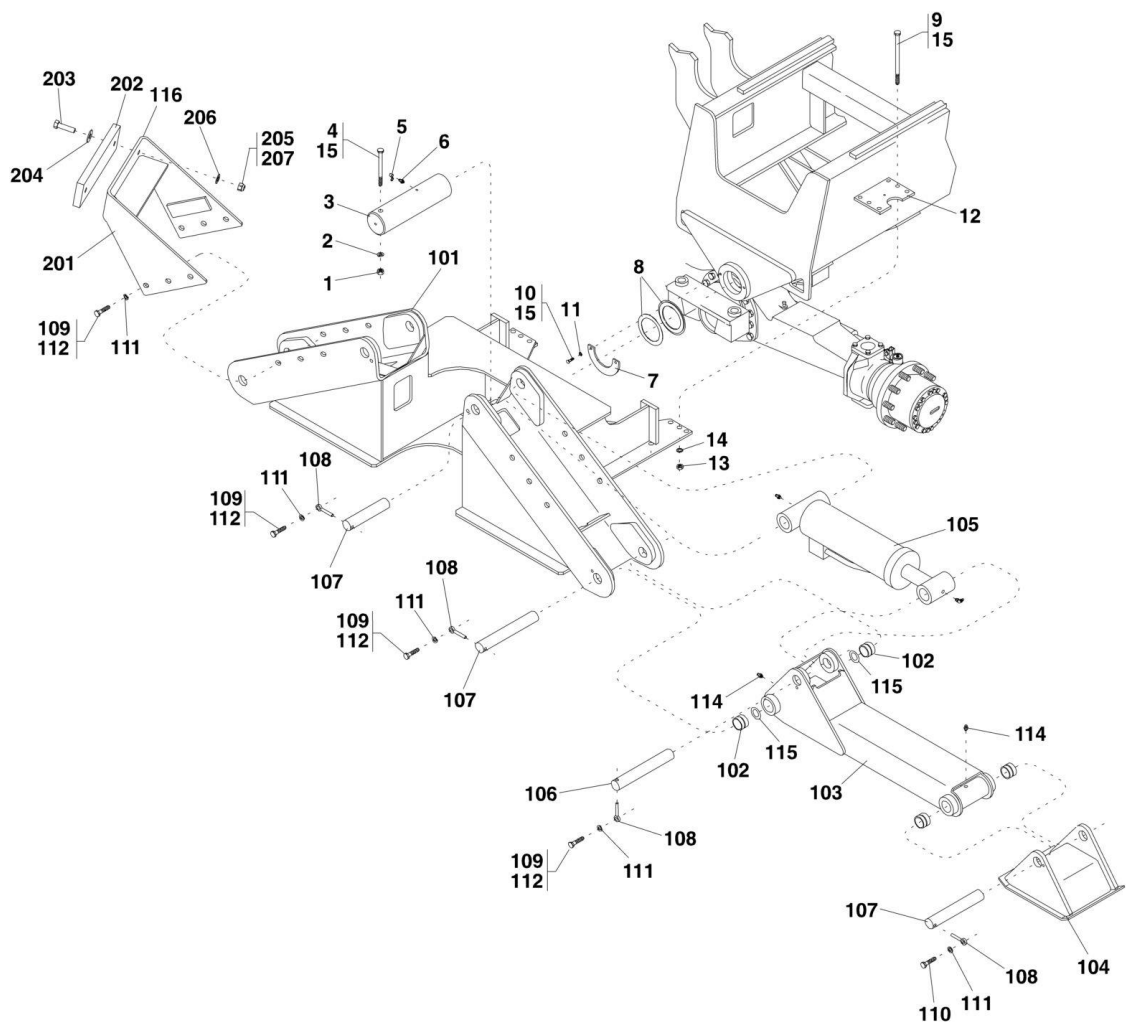
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001096074	1	MAIN FRAME (SN 0160040413 through 0160051139, Including 0160037824 and 0160038521, Excluding 0160050734 and 0160050735)	E
1	1001145161	1	MAIN FRAME (SN 0160051140 to Present, Including 0160050734 and 0160050735)	D
2	10700784	10	HEX HD CAPSCREW, 3/4-16X3-3/4, GR8, (loctite and torque to 465 lb-ft)	
3	3271501	4	HEX NUT, 5/16-18, GR8	
4	10701309	4	LOCKWASHER, 5/16 (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)	
5	4711500	4	WASHER, 5/16	
6		Ref	DOWEL PIN, 3/4X2, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
7	90027473	20	HARDWASHER, 3/4	
8	10701512	4	HEX NUT, 5/8-11	
9	10700104	4	HEX HD CAPSCREW, 5/16-18X1 (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)	
9	0641507	4	HEX HD CAPSCREW, 5/16-18X7/8, GR4 (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
10	10236818	1	GRILLE , (with latch) (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)	
10	1001113283	1	GRILLE , (without latch) (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
11	10116228	4	CYLINDER BUSHING	
12	10732689	4	GREASE FITTING COVER	
13	10716611	4	GREASE FITTING	
14	4761800	4	WASHER, 1/2	
15	3423197	2	FRAME TILT AND OSCILLATION LOCK CYLINDER PIN, (lower)	
16	3841709	2	LOCK PIN	
17	0641810	2	HEX HD CAPSCREW, 1/2-13X1-1/4	
18	10701312	8	LOCKWASHER, 1/2	
19	10124732	2	FRAME TILT AND OSCILLATION LOCK CYLINDER PIN, (upper)	
20	10701508	4	HEX NUT, 3/8-16	
21	10701310	4	LOCKWASHER, 3/8	
22	0641832	2	HEX HD CAPSCREW, 1/2-13X4	
23	10701510	10	HEX NUT, 1/2-13	
24	3282201	10	HEX NUT, 3/4-16, GR8	
25	4341026	1	SUBFRAME - 4 CYLINDER ENGINE (SN 0160009654 through 0160040407)	
25	1001096419	1	SUBFRAME - 4 CYLINDER ENGINE (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
26	10338513	1	MIRROR BRACKET	
27	10700205	4	HEX HD CAPSCREW, 3/8-16X1-1/4	
28	10700107	1	HEX HD CAPSCREW, 5/16-16X1-3/4 (SN 0160009654 through 0160011418, Including 0160008714)	
29	10701309	1	LOCKWASHER, 5/16 (SN 0160009654 through 0160011418, Including 0160008714)	
30	10837299	1	END CAP PLUG (SN 0160009654 through 0160011418, Including 0160008714)	
31	N.S.S.	NLA	CONVEX MIRROR , (no longer available, use Kit K1 for replacement) (SN 0160009654 through 0160011418, Including 0160008714)	

SECTION 1 - FRAME AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	8866348	1	CONVEX MIRROR, (includes mounting hardware) (SN 0160011439 to Present)	
32	88521005	1	LOCKNUT, 5/16	
32	88551010	2	LOCKWASHER, 5/16	
33	10700404	8	HEX HD CAPSCREW, 1/2-13X1-1/2	
34		Ref	REAR STABILIZER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
35		Ref	FRONT AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)	
36		Ref	FRAME TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
37		Ref	REAR AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)	
38	4341020	1	TRANSMISSION MOUNT WELDMENT	
39	0642018	4	HEX HD CAPSCREW, 5/8-11X2-1/4, GR5 (Prior to SN 0160051140)	
39	10700605	4	HEX HD CAPSCREW, 5/8-11X2-1/4, GR5 (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
40	4752000	8	PLAIN WASHER, 5/8 (Prior to SN 0160051140)	
40	10701408	6	PLAIN WASHER, 5/8 (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
41	4762000	6	LOCKWASHER, 5/8 (Prior to SN 0160051140)	
41	10701314	6	PLAIN WASHER, 5/8 (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
42		Ref	TANK SUPPORT MOUNT, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
43	0100071	AR	LOCTITE 262, (apply to item 2 & 39) (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)	
43	0100011	AR	LOCTITE 242, (apply to item 2 & 39) (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
44	10700703	2	HEX HD CAPSCREW, 3/4-10X2-1/4, GR5	
45	10701315	2	LOCKWASHER, 3/4	
46	10717809	2	CLAMP	
47		Ref	VALVE PLATE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
K1	10732579	1	CONVEX MIRROR SERVICE KIT, (includes item 32)	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. OUTRIGGER ASSEMBLY



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SECTION 1 - FRAME AND ATTACHING PARTS

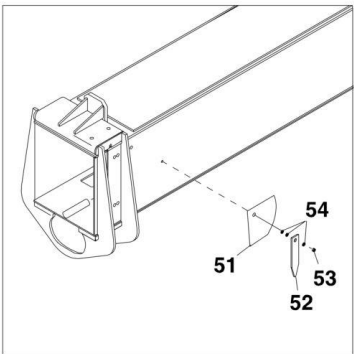
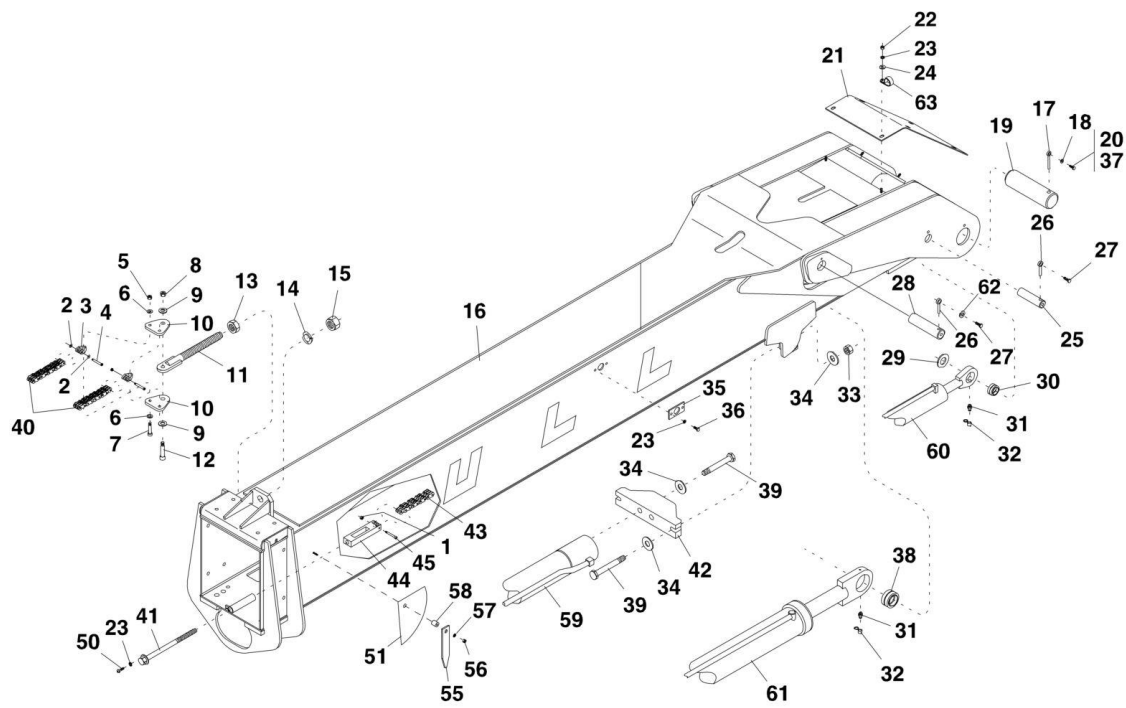
FIGURE 1-2. OUTRIGGER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	3312201	1	HEX NUT, 3/4-10	E
2	4762200	1	WASHER, 3/4	
3	3423213	1	CENTER SHAFT	
4	0642256	1	HEX HD CAPSCREW, 3/4-10X7	
5	10732689	1	GREASE FITTING COVER	
6	10715272	1	GREASE FITTING, 1/8	
7	10167750	1	BUSHING RETAINER	
8	10139945	AR	SHIM, 16 GA	
8	10139946	AR	SHIM, 20 GA	
8	10139947	AR	SHIM, 24 GA	
9	8310475	12	HEX HD CAPSCREW, 3/4-10X10, GR8	
10	0641608	2	HEX HD CAPSCREW, 3/8-16X3/4	
11	4761600	2	WASHER, 3/8	
12	3575851	2	MOUNTING PLATE	
13	3272205	12	HEX NUT, 3/4-10, GR8	
14	8307703	12	PLAIN WASHER, 3/4	
15	0100011	AR	LOCTITE 242, (apply to item 2, 9 & 10)	AE
	4210021	Ref	OUTRIGGER ASSY, (includes items 101 thru 116 & items 3, 4 & 24 on HYDRAULIC CIRCUITS)	
101	4210020	1	OUTRIGGER FRAME	
102	10116228	8	BUSHING	
103	10239253	2	OUTRIGGER LEG ASSY, (includes qty 4 of item 102 & qty 2 of item 114)	
104	10266234	2	FOOT PAD	
105		Ref	OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
106	10165360	2	OUTRIGGER CYLINDER PIN	
107	10165359	6	OUTRIGGER LEG AND CYLINDER PIN	
108	10232432	8	LOCK PIN	
109	0642014	18	HEX HD CAPSCREW, 5/8-11X1-3/4, (torque to 140-145 lb-ft)	
110	0642012	2	HEX HD CAPSCREW, 5/8-11X1-1/2	
111	4762000	20	WASHER, 5/8	
112	0100011	AR	LOCTITE 242, (apply to item 109)	
114	10716611	2	GREASE FITTING	A
115	1101704	AR	SHIM, 14 GA	
116	0903209	2	OUTRIGGER STOP BRACKET ASSY, (includes items 201 thru 207)	
201	4220249	2	STOP WELDMENT	
202	4220248	2	RUBBER PAD	
203	0642019	4	HEX HD CAPSCREW, 5/8-11X2-3/8, (torque to 10-20 lb-ft)	
204	4752000	4	PLAIN WASHER, 5/8	
205	8305643	4	HEX LOCKNUT, 5/8-11	
206	4712000	4	PLAIN WASHER, 5/8	
207	0100011	AR	LOCTITE 242, (apply to item 205)	

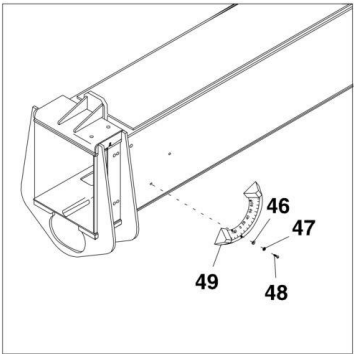
SECTION 2 - BOOM

SECTION 2 - BOOM

FIGURE 2-1. FIRST BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



SN 0160014713 THROUGH 0160033170



SN 0160009654 THROUGH 0160014712
INCLUDING 0160008714

PAP14860

SECTION 2 - BOOM

FIGURE 2-1. FIRST BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)

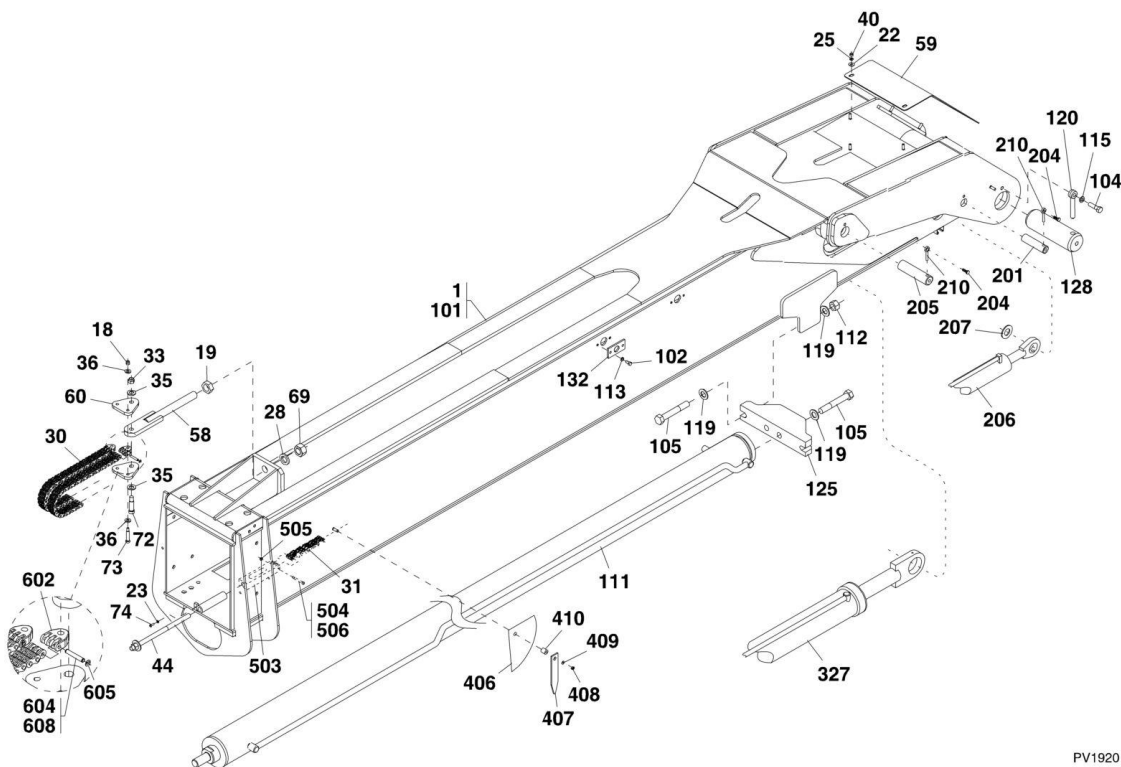
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10705000	1	HEX LOCKNUT, 1/4-20	
2	8642237	4	RETAINING RING	
3	7139416	2	ANCHOR CLEVIS	
4	8124138	2	CHAIN CLEVIS PIN	
5	10701658	2	HEX LOCKNUT, 3/8-16	
6	10701254	4	FLAT WASHER, 1/2	
7	10837753	2	SHOULDER BOLT, 1/2X1-3/4	
8	10701662	1	HEX LOCKNUT, 5/8-11	
9	10701257	2	FLAT WASHER, 3/4	
10	10265729	2	CHAIN EQUALIZER	
11	10238726	1	CHAIN ADJUSTMENT ANCHOR	
12	10721439	1	SHOULDER BOLT, 3/4X2	
13	10701567	1	HEX JAM NUT, 1-1/4-7	
14	10701319	1	LOCKWASHER, 1-1/4	
15	10701517	1	HEX NUT, 1-1/4-7	
16	10438566	1	FIRST BOOM SECTION	
17	10138806	2	LOCK PIN	
18	10701314	2	LOCKWASHER, 5/8	
19	10267799	2	BOOM PIVOT PIN	
20	10700605	2	HEX CAPSCREW, 5/8-11X2-1/4	
21	10239098	1	BOOM COVER	
22	10701508	6	HEX NUT, 3/8-16	
23	10701310	8	LOCKWASHER, 3/8	
24	10701404	6	FLAT WASHER, 3/8	
25	10136240	2	REAR CARRIAGE TILT CYLINDER PIN, (rod end)	
26	3841203	4	LOCK PIN	
27	10700403	4	HEX CAPSCREW, 1/2-13X1-1/4	
28	10136907	2	HOIST CYLINDER PIN, (rod end)	
29	10701446	AR	FLAT WASHER	
30	8050001	2	REAR CARRIAGE TILT CYLINDER BUSHING, (rod end)	
31	10716611	4	GREASE FITTING	
32	10732689	4	GREASE FITTING COVER	
33	10701209	2	HEX NUT, 1-8, GR8	
34	10701259	4	FLAT WASHER, 1	
35	10139068	1	PROXIMITY MOUNTING PLATE (SN 0160009654 through 0160032405, Including 0160008714)	
35	1001091370	1	PROXIMITY MOUNTING PLATE (SN 0160032406 to Present)	
36	10700202	2	HEX HD CAPSCREW, 3/8-16X3/4	
37	0100011	AR	LOCTITE 242, (apply to item 20)	
38	10718830	4	HOIST CYLINDER BUSHING, (rod end)	
39	10700940	2	HEX HD CAPSCREW, 1-8X6-1/2, GR8	
40	8127030	2	UPPER CHAIN, (197.25in long)	
41	10138374	1	ROD TENSIONER	
42	10238512	1	EXTENSION CYLINDER BASE MOUNT	
43	10138745	1	LOWER CHAIN, (167.25in long)	
44	10238723	1	ADJUSTMENT BLOCK CHAIN	
45	10727310	1	SHOULDER BOLT, 1/2 DIA X2	
46	10701430	2	FLAT WASHER, #8 (SN 0160009654 through 0160014712, Including 0160008714)	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	10701354	2	STAR WASHER, #8 (SN 0160009654 through 0160014712, Including 0160008714)	
48	10702034	2	ROUND HD SLOTTED SCREW, #8-32X1/2 (SN 0160009654 through 0160014712, Including 0160008714)	
49	10238252	1	BOOM ANGLE INCLINOMETER (SN 0160009654 through 0160014712, Including 0160008714)	
50	10703194	1	BUTTON HD SOCKET CAPSCREW, 1/4-20X1/2	
51	4105262	1	BOOM ANGLE INDICATOR DECAL (SN 0160014713 to Present)	
52	7075611	1	BOOM ANGLE INDICATOR POINTER (SN 0160014713 through 0160033170)	
53	8305647	1	HEX LOCK NUT, 7/16-14 (SN 0160014713 through 0160033170)	
54	8307113	3	PLAIN WASHER, 7/16 (SN 0160014713 through 0160033170)	
55	1001098769	1	BOOM ANGLE INDICATOR POINTER (SN 0160033171 to Present)	
56	8305645	1	HEX LOCK NUT, 3/8-16 (SN 0160033171 to Present)	
57	4711600	1	PLAIN WASHER, 3/8 (SN 0160033171 to Present)	
58	1001096404	1	ANGLE INDICATOR SPACER (SN 0160033171 to Present)	
59		Ref	BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
60		Ref	REAR CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
61		Ref	HOIST CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
62	10701312	4	LOCKWASHER, 1/2	
63	10717554	4	CLAMP, 3/8	

SECTION 2 - BOOM

FIGURE 2-2. FIRST BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



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SECTION 2 - BOOM

FIGURE 2-2. FIRST BOOM SECTION (SN 0160037900 to Present, Including 0160037855)

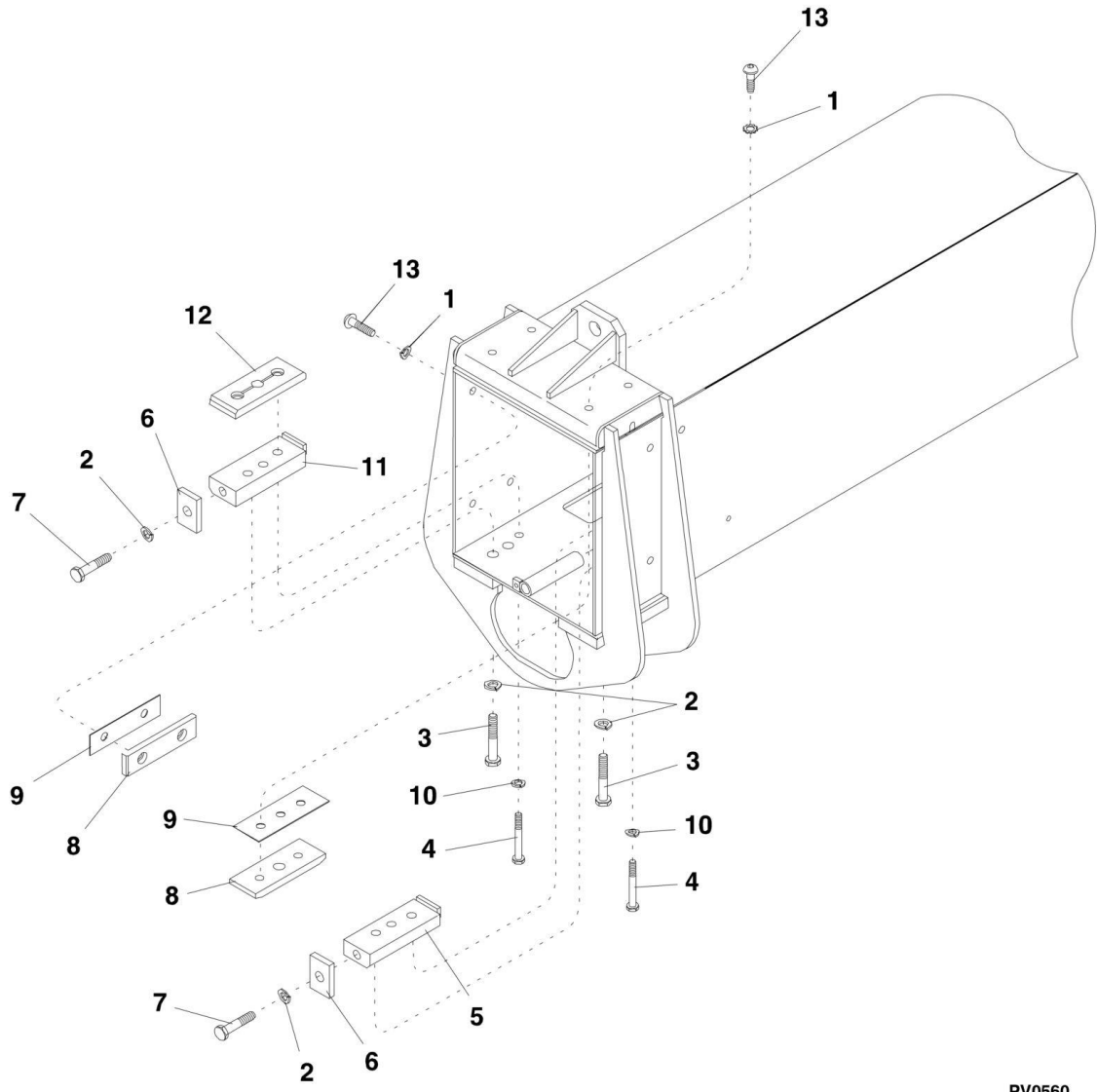
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001103578	Ref	FIRST BOOM SECTION SUB ASSY, (Single Aux), (not available to order, see items 101 thru 132 for service)	C
1	1001103583	Ref	FIRST BOOM SECTION SUB ASSY, (Dual Aux), (not available to order, see items 101 thru 132 for service)	C
18	3300143	2	WHEEL NUT	
19	3313002	1	HEX JAM NUT, 1-1/4-7	
22	4751600	6	FLAT WASHER, 3/8	
23	4761400	1	LOCKWASHER, 5/16	
25	4761600	6	LOCKWASHER, 3/8	
28	4763000	1	LOCKWASHER, 1-1/4	
30		Ref	CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)	
31		Ref	CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)	
33	8305643	1	LOCKNUT, 5/8-11	
35	8307703	2	FLAT WASHER, 3/4	
36	8310056	4	FLAT WASHER, 1/2	
40	8310454	6	HEX NUT, 3/8-16	
44	10138374	1	TENSIONER ASSY	
58	10238726	1	EQUALIZER CHAIN ANCHOR	
59	10239098	1	BOOM COVER	
60	10265729	2	EQUALIZER BAR	
69	10701517	1	HEX NUT, 1-1/4-7	
72	10721439	1	SHOULDER BOLT, 3/4X2	
73	10837753	2	SHOULDER BOLT, 1/2X2	
74	88261014	1	BUTTON HD CAPSCREW, 1/4-20X1/2	
101	10438566	1	FIRST BOOM SECTION WELDMENT	
102	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
104	0642018	2	HEX HD CAPSCREW, 5/8-11X2-1/4, GR5	
105	0682652	4	HEX HD CAPSCREW, 1/8X6-1/2, GR5	
111		Ref	BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
112	3272601	2	HEX NUT, 1-8	
113	4761600	2	LOCKWASHER, 3/8	
115	4762000	2	LOCKWASHER, 5/8	
119	8310061	6	FLAT WASHER, 1	
120	10138806	2	LOCK PIN, 3/4	
125	10238512	1	CYLINDER SUPPORT LUG	
128	10267799	2	FRONT SHEAVE CHAIN PIN	
132	1001091370	1	PROXIMITY SWITCH MOUNT PLATE	
201	10136240	2	TILT CYLINDER PIN	
204	0641810	4	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5	
205	10136907	2	HOIST CYLINDER PIN	
206		Ref	REAR CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
207	4713400	AR	FLAT WASHER, 1-1/2	
210	3841203	4	ROD WIPER	
327		Ref	HOIST CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
406	4105262	1	BOOM ANGLE INDICATOR DECAL	
407	1001098769	1	BOOM ANGLE INDICATOR PLATE	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
408	8305645	1	HEX LOCKNUT, 3/8-16	
409	4711600	1	FLAT WASHER, 3/8	
410	1001096404	1	SPACER	
503	10238723	1	CHAIN ANCHOR	
504	10727310	1	BOLT, 5/16X2	
505	10705000	1	LOCKNUT, 1/4-20	
506	8522012	AR	ANTI-SEIZE LUBE	
602	7139416	2	ANCHOR CLEVIS	
604	8124138	2	CHAIN CLEVIS PIN	
605	8642237	4	RETAINING RING	
608	8522012	AR	ANTI-SEIZE LUBE	

SECTION 2 - BOOM

FIGURE 2-3. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)



PV0560

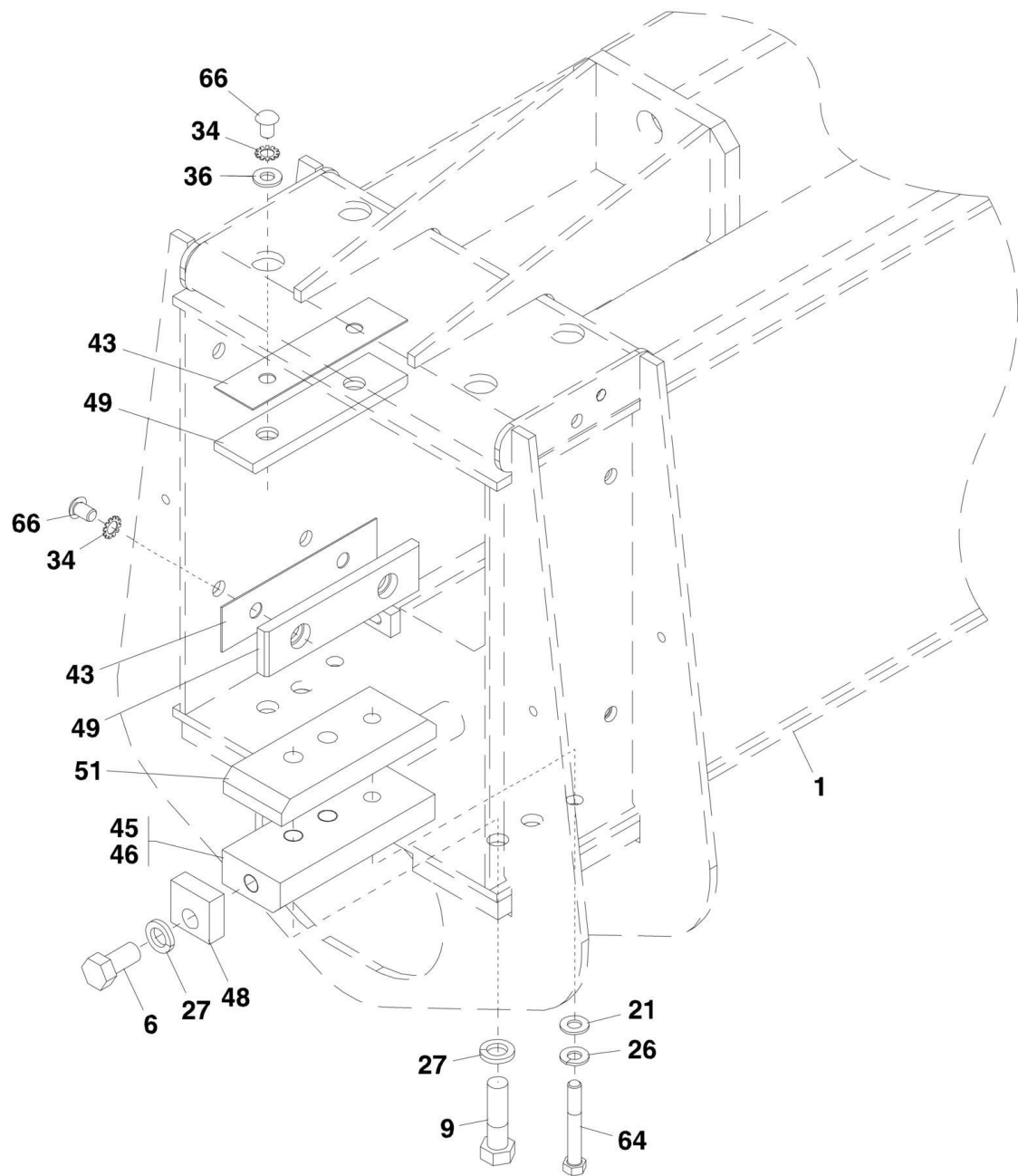
SECTION 2 - BOOM

FIGURE 2-3. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10701361	12	STAR WASHER,1/2	
2	10701315	6	LOCKWASHER, 3/4	
3	10700730	2	HEX HD CAPSCREW, 3/4-10X2-3/4	
4	10700489	4	HEX HD CAPSCREW, 1/2-20X3-1/2, GR8	
5	10138615	1	LH RETAINER BLOCK PAD	
6	10138773	2	PAD RETAINER, ALUMINUM	
7	10700700	2	HEX HD CAPSCREW, 3/4-10X1-1/2	
8	10139023	6	BOOM SLIDE PAD, (9/16X2 wide)	
9	10136329	AR	SHIM, 16 GA, (.060X2 wide)	
10	10701312	2	LOCKWASHER, 1/2	
11	10138721	1	RH RETAINER BLOCK PAD	
12	10139530	2	BOOM SLIDE PAD, (1X3 wide)	
13	10703236	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4	
13	10703237	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X1	
13	10703242	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X1-1/4	

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FIGURE 2-4. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)



NOTE: USE LOCTITE® 242TM (0100011) ON ALL BOLT THREADS.

PV01880

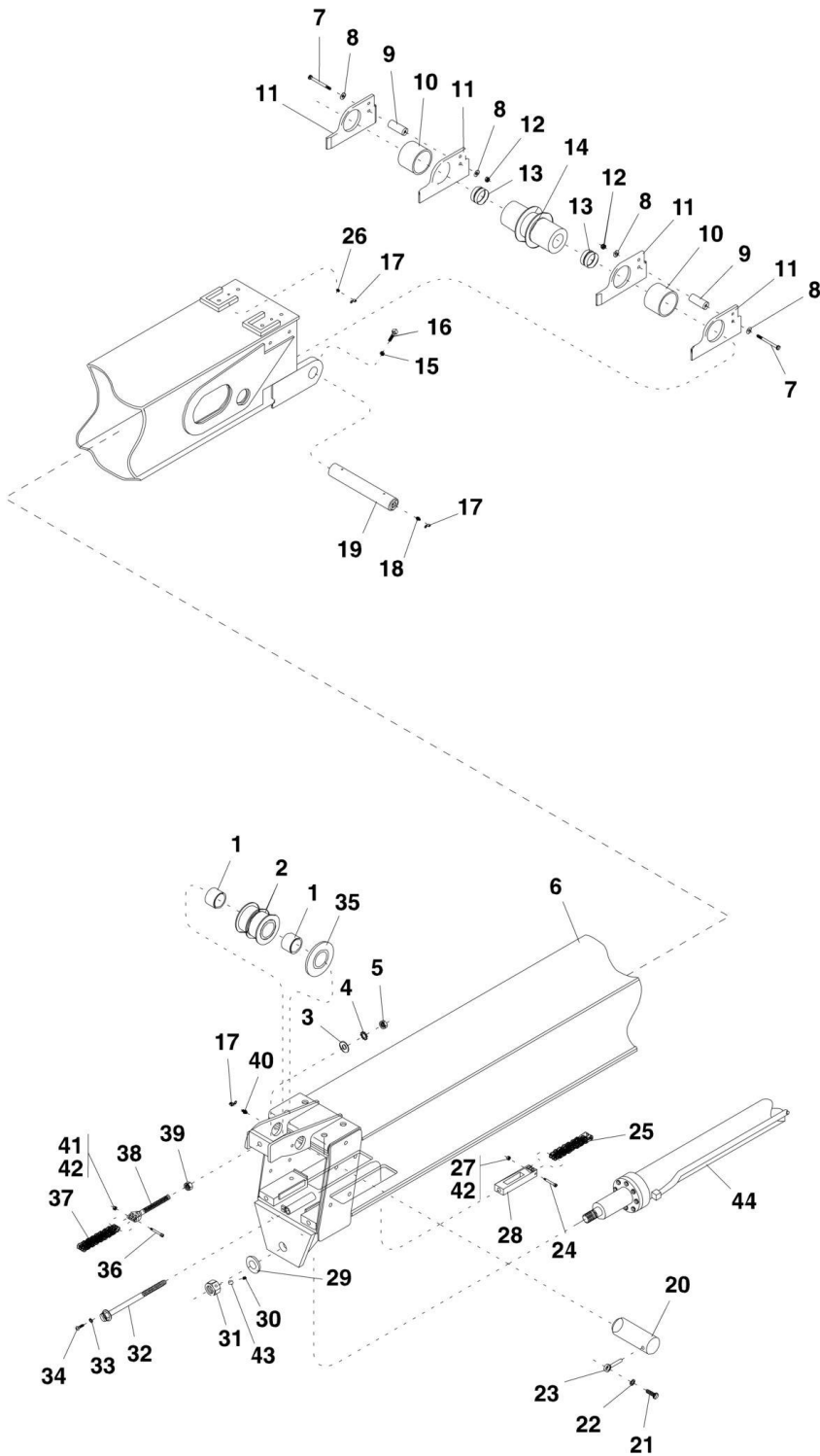
SECTION 2 - BOOM

FIGURE 2-4. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FIRST BOOM SECTION WELDMENT, (See FIRST BOOM SECTION for Breakdown)	
6	0642212	2	HEX HD CAPSCREW, 3/4-10X1-1/2, GR5	
9	0682222	4	HEX HD CAPSCREW, 3/4-10X2-3/4, GR8	
21	4711800	2	FLAT WASHER, 1/2	
26	4761800	2	LOCKWASHER, 1/2	
27	4762200	6	LOCKWASHER, 3/4	
34	8307028	12	LOCKWASHER, 1/2, (external tooth)	
36	8310056	4	FLAT WASHER, 1/2	
43	10136329	AR	SHIM, (.06)	
45	10138615	1	LH PAD SPACER	
46	10138721	1	RH PAD SPACER	
48	10138773	2	PAD RETAINER	
49	10139023	6	BOOM PAD	
51	10139530	2	BOOM PAD	
64	10700489	2	HEX HD CAPSCREW, 1/2-20X1-1/2, GR8	
66	10703236	12	BUTTON HD CAPSCREW, 1/2-20X3/4, GR8	
66	10703237	12	BUTTON HD CAPSCREW, 1/2-20X1, GR8	
66	10703242	12	BUTTON HD CAPSCREW, 1/2-20X1-1/4, GR8	
101	0100011	AR	LOCTITE 242	

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FIGURE 2-5. SECOND BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



PAP14850

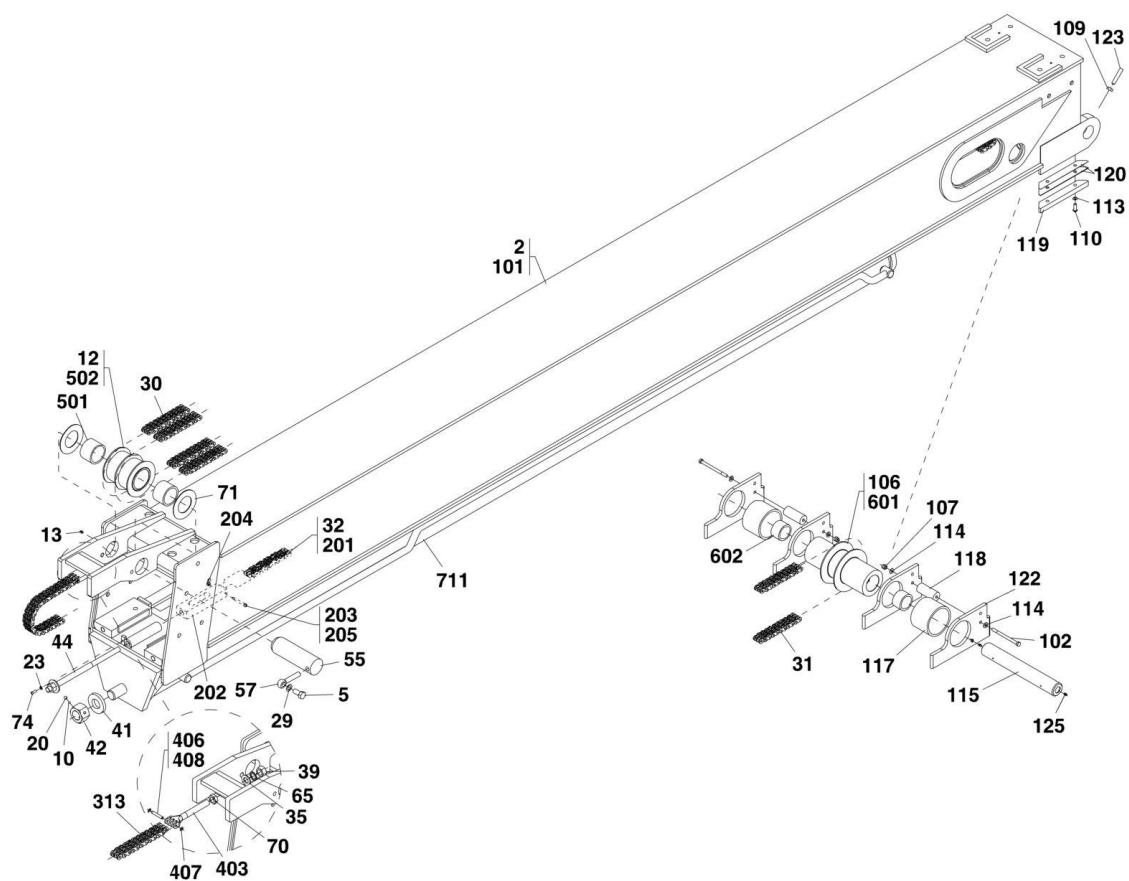
SECTION 2 - BOOM

FIGURE 2-5. SECOND BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10165692	2	CHAIN ROLLER, GARLOCK BUSHING	
2	10265755	1	CHAIN ROLLER	
3	10701257	1	FLAT WASHER, 3/4	
4	10701364	1	STAR WASHER, 3/4	
5	10701232	1	HEX NUT, 3/4-16	
6	10438565	1	SECOND BOOM SECTION, (rear)	
7	10700218	2	HEX HD CAPSCREW, 3/8-16X5	
8	10701277	4	FLAT WASHER, 3/8	
9	10139849	2	ROLLER	
10	10139838	2	PLASTIC BUSHING	
11	10239832	4	HOSE GUIDE	
12	10705002	2	HEX LOCKNUT, 3/8-16	
13	10165723	2	CHAIN AND HOSE ROLLER BUSHING, GARLOCK	
14	1101674	1	CHAIN AND HOSE ROLLER, (includes item 13)	
15	10701560	1	HEX JAM NUT, 1/2-13	
16	10702757	1	SQUARE HD SETSCREW, CUP PT, 1/2-13X1-3/4	
17	10732689	5	GREASE FITTING COVER	
18	10716611	2	GREASE FITTING, 1/8	
19	10136174	1	CHAIN AND HOSE ROLLER SHAFT	
20	10165263	1	CHAIN ROLLER PIN	
21	10700601	1	HEX HD CAPSCREW, 5/8-13X1-1/4	
22	10701363	1	STAR WASHER, 5/8	
23	10232432	1	LOCK PIN, 5/8	
24	10727310	1	SHOULDER BOLT, 5/16 DIA X2	
25	8127023	1	LEAF CHAIN, (165.75in long)	
26	10715367	2	GREASE FITTING, 45, 1/4	
27	10705000	1	HEX LOCKNUT, 1/4-20	
28	10238723	1	CHAIN ADJUSTMENT BLOCK	
29	10113599	1	TOGGLE PLATE BOSS	
30	10702612	2	SOCKET HD SETSCREW, CUP PT., 3/8-16X3/8	
31	10116369	1	EXTENSION CYLINDER ROD NUT	
32	10138374	1	CHAIN ADJUSTMENT ROD	
33	10701308	1	LOCKWASHER, 1/4	
34	10703194	1	SOCKET BUTTON HD CAPSCREW, 1/4-20X1/2	
35	10720431	1	SPECIAL WASHER	
36	8124138	1	CLEVIS PIN	
37	10165712	1	LEAF CHAIN, (195.75in long)	
38	7139032	1	ANCHOR CLEVIS	
39	10701586	1	JAM NUT, 3/4-16	
40	10715272	1	GREASE FITTING, 1/8	
41	8642237	1	RETAINING RING	
42	8522012	AR	ANTI-SEIZE LUBE, (apply to items 27 & 41)	
43	1100417	2	LEAD BALL	
44		Ref	BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

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FIGURE 2-6. SECOND BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



PAP14710

SECTION 2 - BOOM

FIGURE 2-6. SECOND BOOM SECTION (SN 0160037900 to Present, Including 0160037855)

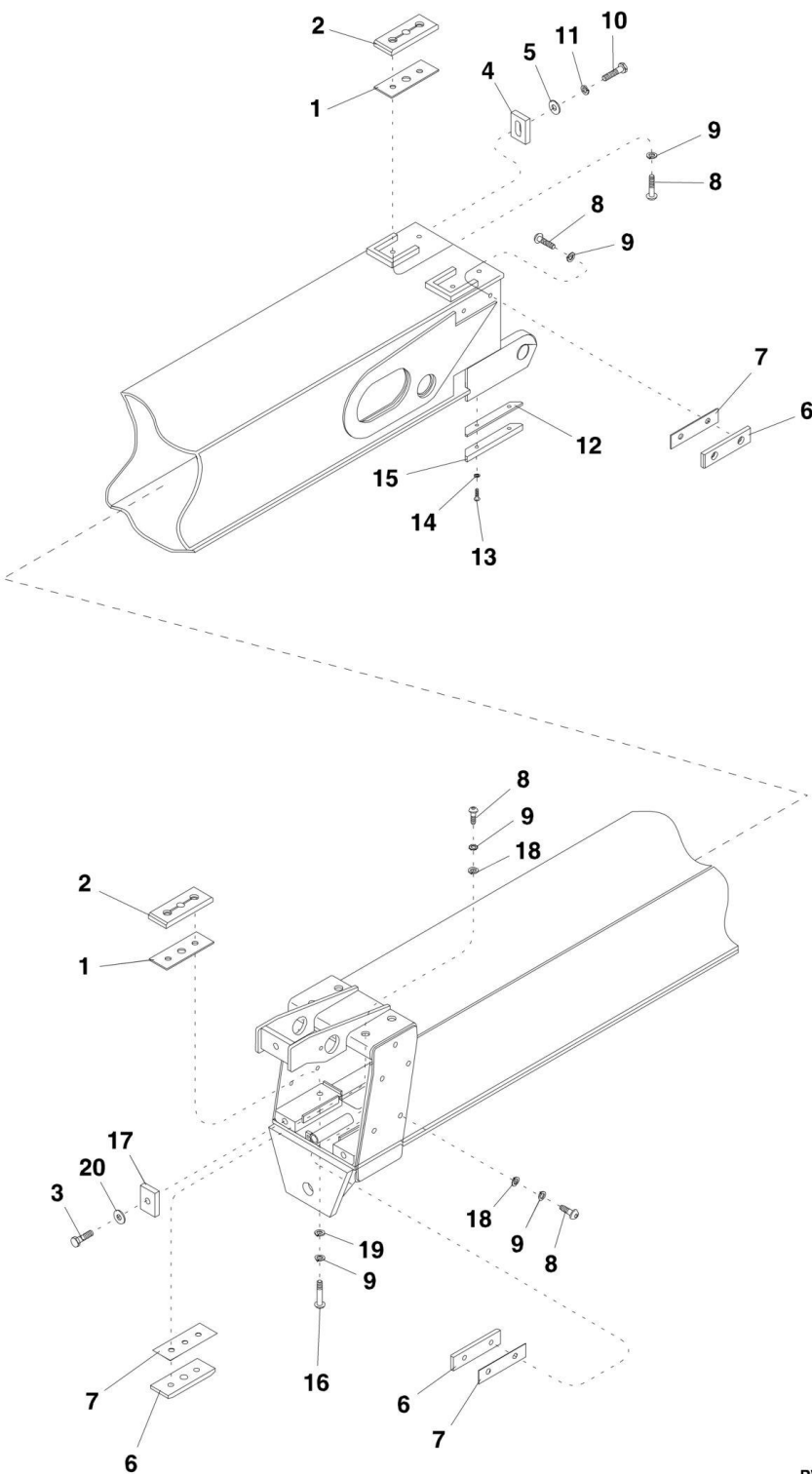
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	1001103579	Ref	SECOND BOOM SECTION SUB ASSY, (Single Aux), (not available to order, see items 101 thru 125 for service)	C
2	1001103584	Ref	SECOND BOOM SECTION SUB ASSY, (Dual Aux), (not available to order, see items 101 thru 125 for service)	C
5	0642010	1	HEX HD CAPSCREW, 5/8-11X1-1/4, GR5	B
10	1100417	2	LEAD BALL	
12	1101672	1	CHAIN SHEAVE SUB ASSY, (includes items 501 & 502)	
13	2160002	1	GREASE FITTING, 1/8, (straight)	
20	3951603	2	SET SCREW, 3/8X3/8	
23	4761400	1	LOCKWASHER, 1/4	
29	4792000	1	STAR WASHER, 5/8	
30		Ref	CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)	
31		Ref	CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)	B
32	7139775	1	CHAIN AND CLEVIS ASSY, (includes items 201 thru 205)	
35	8307703	1	FLAT WASHER, 3/4	
39	8310450	1	HEX NUT, 3/4-16	
41	10113599	1	TOGGLE PLATE	
42	10116369	1	SPECIAL HEX NUT	
44	10138374	1	TENSIONER ASSY	
55	10165263	1	CHAIN SHEAVE PIN	
57	10232432	1	PIN LOCK	
65	10701364	1	HEX NUT, 3/4-16	
70	10701586	1	HEX JAM NUT, 3/4-16	
71	10720431	AR	SHIM WASHER	
74	88261014	1	BUTTON HD CAPSCREW, 1/4-20X1/2	
101	10438565	1	SECOND BOOM SECTION WELDMENT	
102	0641640	2	HEX HD CAPSCREW, 3/8-16X5, GR5	
106	1101674	1	CHAIN/HOSE ROLLER ASSY, (includes items 601 & 602)	
107	3300143	2	WHEEL NUT	
109	3311802	1	HEX JAM NUT, 1/2-13	
110	3900316	4	SOCKET BUTTON HD CAPSCREW, 3-8-161	AA
113	4791600	4	STAR WASHER, 3/8	
114	8310054	4	FLAT WASHER, 3/8	
115	10136174	1	PIN	
117	10139838	2	PLASTIC BUSHING	
118	10139849	2	HOSE SPACER	
122	10239832	4	HOSE GUIDE	
123	3951820	1	SET SCREW, 1/2X2X1/2	
125	10716611	2	GREASE FITTING, 1/4-28, (straight)	
201	8127023	1	RETRACT CHAIN, BL666	
202	10238723	1	CHAIN ANCHOR	
203	10727310	1	BOLT, 5/16X2	
204	10705000	1	LOCKNUT, 1/4-20	
205	8522012	AR	ANTI-SEIZE LUBE	
313		Ref	CHAIN AND CLEVIS ASSY, (See FOURTH BOOM SECTION for Breakdown)	
403	7139032	1	CHAIN ANCHOR	
406	8124138	1	CHAIN CLEVIS PIN	
407	8642237	2	RETAINING RING	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
408	8522012	AR	ANTI-SEIZE LUBE	
501	10165692	2	BUSHING	
502	10265755	1	CHAIN SHEAVE	
601	10265837	1	CHAIN/HOSE ROLLER	
602	10165723	2	BUSHING	
711		Ref	BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 2 - BOOM

FIGURE 2-7. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)



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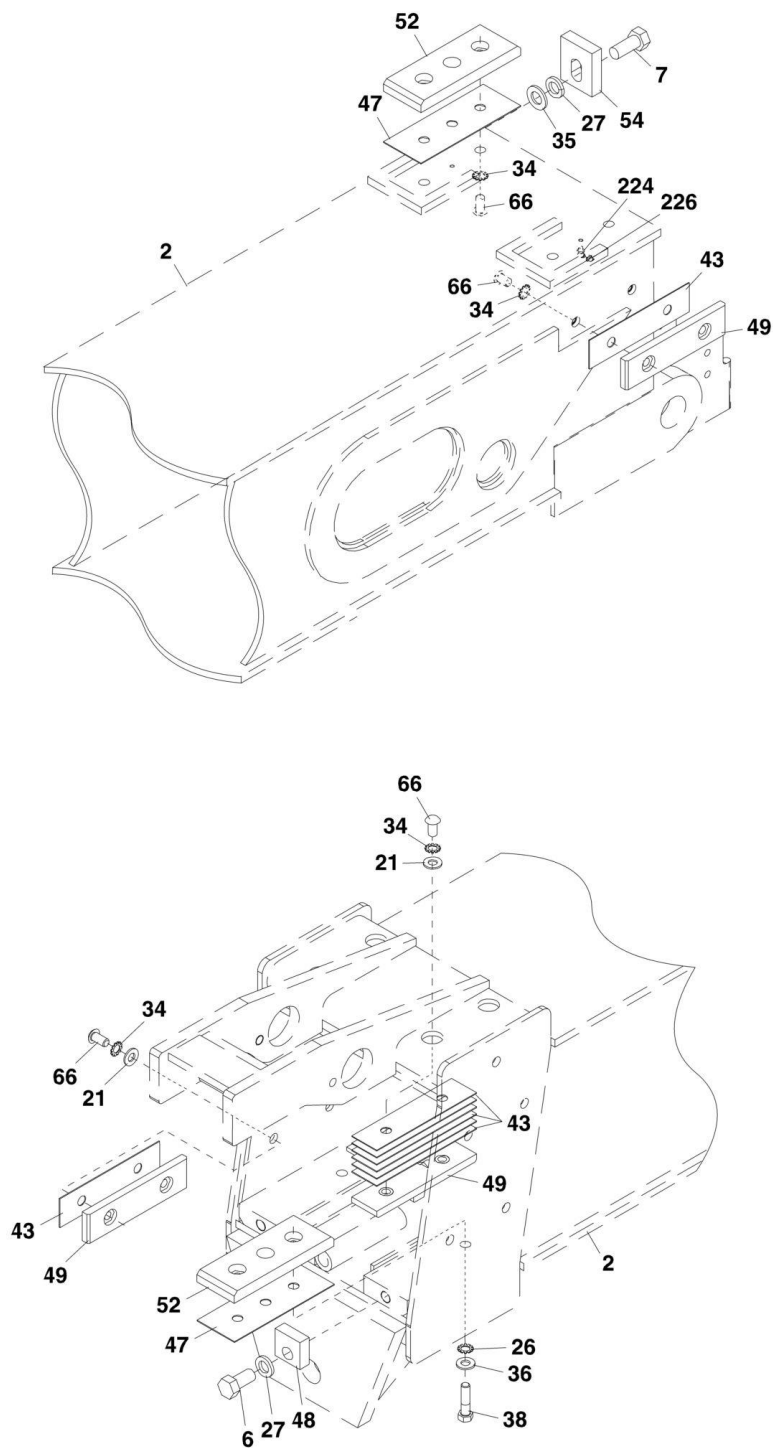
SECTION 2 - BOOM

FIGURE 2-7. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10138770	AR	SHIM, 16 GA, (.060X3 wide)	
2	10139594	2	BOOM SLIDE PAD, (3/4X3 wide)	
3	10700700	2	HEX HD CAPSCREW, 3/4-10X1-1/2, GR5	
4	10139809	2	PAD RETAINER, ALUMINUM	
5	10701257	3	FLAT WASHER, 3/4	
6	10139023	8	BOOM SLIDE PAD, (9/16X2 wide)	
7	10136329	AR	SHIM, 16 GA, (.060X2 wide)	
8	10703236	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4	
8	10703237	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X1	
8	10703242	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X1-1/4	
9	10701361	23	STAR WASHER, 1/2	
10	10700701	2	HEX HD CAPSCREW, 3/4-10X1-3/4	
11	10701315	4	LOCKWASHER, 3/4	
12	10165243	AR	SLIDE SHIM	
13	10703227	4	SOCKET BUTTON HD CAPSCREW, 3/8-161	
14	10701359	4	STAR WASHER, 3/8	
15	10139863	2	BOTTOM SLIDE PAD	
16	10700489	2	HEX HD CAPSCREW, 1/2-20X2, GR8	
17	10138773	2	PAD RETAINER	
18	10701437	8	FLAT WASHER, 1/2	
19	10701254	2	FLAT WASHER, 1/2	
20	10701308	1	LOCKWASHER, 1/4	

SECTION 2 - BOOM

FIGURE 2-8. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)



NOTE: USE LOCTITE® 242TM (0100011) ON ALL BOLT THREADS.

PV1890

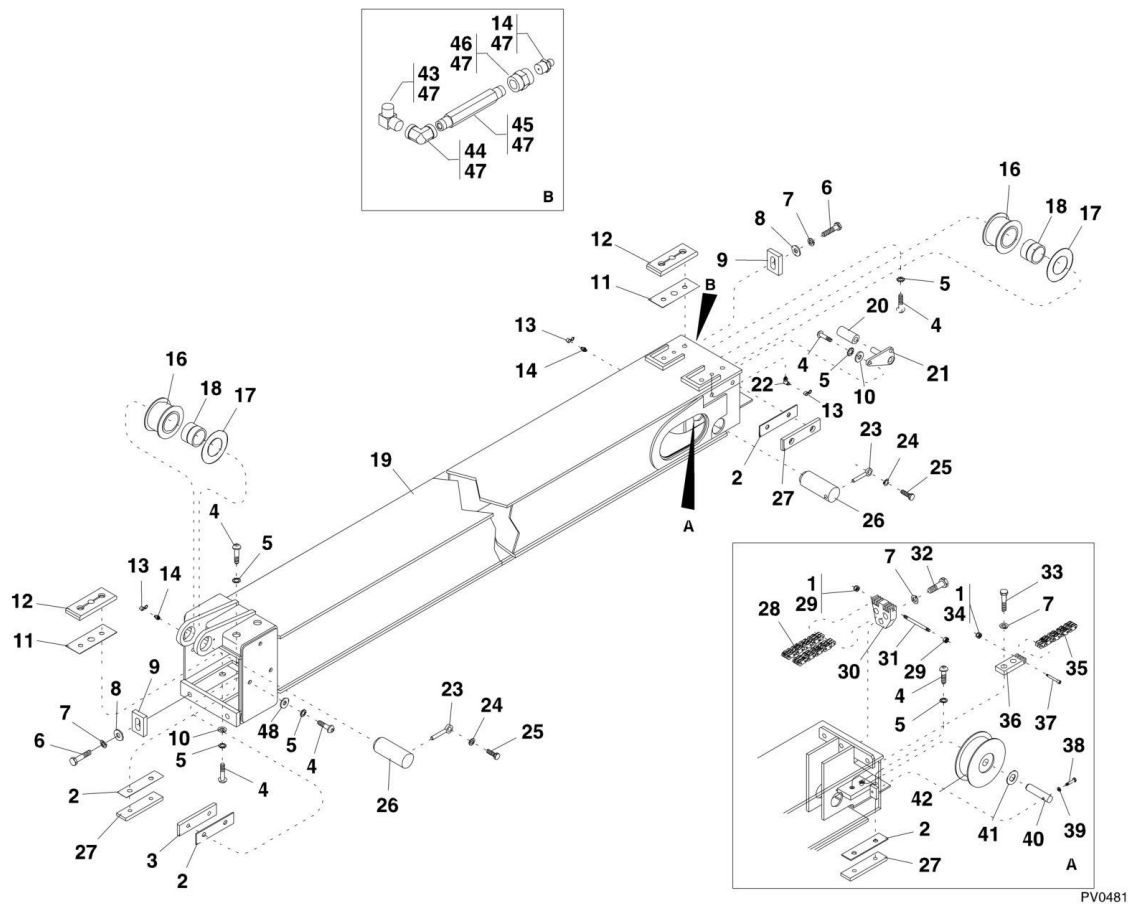
SECTION 2 - BOOM

FIGURE 2-8. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2		Ref	SECOND BOOM SECTION WELDMENT, (See SECOND BOOM SECTION for Breakdown)	
6	0642212	2	HEX HD CAPSCREW, 3/4-10X1-1/2, GR5	
7	0642214	2	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5	
21	4711800	12	FLAT WASHER, 1/2	
26	4761800	2	LOCKWASHER, 1/2	
27	4762200	4	LOCKWASHER, 3/4	
34	8307028	20	LOCKWASHER, 1/2, (external tooth)	
35	8307703	2	FLAT WASHER, 3/4	
36	8310056	2	FLAT WASHER, 1/2	
38	8310084	2	HEX HD CAPSCREW, 1/2-20X2, GR8	
43	10136329	AR	SHIM, (.06)	
47	10138770	AR	SHIM, (.06)	
48	10138773	2	RETAINER PAD	
49	10139023	8	BOOM PAD	
52	10139594	4	BOOM PAD	
54	10139809	2	RETAINER PAD	
66	10703236	20	BUTTON HD CAPSCREW, 1/2-20X3/4	
66	10703237	20	BUTTON HD CAPSCREW, 1/2-20X1	
66	10703242	20	BUTTON HD CAPSCREW, 1/2-20X1-1/4	
101	0100011	AR	LOCTITE 242	
224	10715367	2	GREASE FITTING, 45	
226	10732689	2	GREASE COVER	

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FIGURE 2-9. THIRD BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



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FIGURE 2-9. THIRD BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8522012	AR	ANTI-SEIZE LUBE, (apply to items 29 & 34)	
2	10136329	AR	SHIM, 16 GA, (.060X2 wide)	
3	10139604	2	BOOM SLIDE PAD, (7/16X2 wide)	
4	10703236	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4	
4	10703237	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X1	
4	10703242	AR	SOCKET BUTTON HD CAPSCREW, 1/2-20X1-1/4	
5	10701361	22	STAR WASHER, 1/2	
6	10700701	4	HEX HD CAPSCREW, 3/4-10X1-3/4	
7	10701315	9	LOCKWASHER, 3/4	
8	10701257	4	FLAT WASHER, 3/4	
9	10139809	4	PAD RETAINER, ALUMINUM	
10	10701254	6	FLAT WASHER, 1/2	
11	10138770	AR	SHIM, 16 GA, (.060X3 wide)	
12	10139530	4	BOOM SLIDE PAD, (1X3 wide)	
13	10732689	4	GREASE FITTING COVER	
14	10715272	4	GREASE FITTING, 1/8 N.P.T.	
16	10265833	2	CHAIN ROLLER	
17	10720431	AR	CHAIN ROLLER SHIM	
18	10165715	2	CHAIN ROLLER BUSHING	
19	10438564	1	MIDDLE BOOM, (forward)	
20	10167073	2	HOSE FOLLOWER ROLLER	
21	10267068	1	LH HOSE ROLLER WELDMENT	
21	10267069	1	RH HOSE ROLLER WELDMENT	
22	10715367	2	GREASE FITTING, 45, 1/4	
23	10232432	2	LOCK PIN, 5/8	
24	10701363	2	LOCKWASHER, 5/8	
25	10700601	2	HEX HD CAPSCREW, 5/8-13X1-1/4	
26	10165735	2	CHAIN ROLLER PIN	
27	10139023	4	BOOM SLIDE PAD, (9/16X2 wide)	
28	8127030	2	UPPER CHAIN, (197.25in long)	
29	10705001	2	HEX LOCKNUT, 5/16-18	
30	10238661	1	UPPER CHAIN ANCHOR	
31	10139379	1	CHAIN ANCHOR ROD	
32	10700730	3	HEX HD CAPSCREW, 3/4-10X2-3/4, GR8	
33	10700726	2	HEX HD CAPSCREW, 3/4-10X1-3/4, GR8	
34	10705000	1	HEX LOCKNUT, 1/4-20	
35	10138745	1	LOWER CHAIN, (167.25in long)	
36	10238724	1	LOWER CHAIN ANCHOR	
37	10727310	1	SHOULDER BOLT, 5/16 DIA X2	
38	10700133	2	HEX HD CAPSCREW, 5/16-18X1-1/2, GR8	
39	10701309	2	LOCKWASHER, 5/16	
40	10139287	2	HOSE REEL PIN	
41	10701259	2	FLAT WASHER, 1	
42	1101522	2	HOSE REEL	
43	2220855	2	PIPE NIPPLE, 90 (SN 0160032947 to Present)	
44	2221301	2	ADAPTER, 90 (SN 0160032947 to Present)	
45	2221302	2	STRAIGHT ADAPTER (SN 0160032947 to Present)	
46	2200261	2	COUPLING (SN 0160032947 to Present)	
47	0100011	AR	LOCTITE 242, (apply to items 14, 43 thru 46) (SN 0160032947 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	10701437	8	FLAT WASHER, 1/2 (SN 0160032947 to Present)	

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FIGURE 2-10. THIRD BOOM SECTION (SN 0160037900 to Present, Including 0160037855)

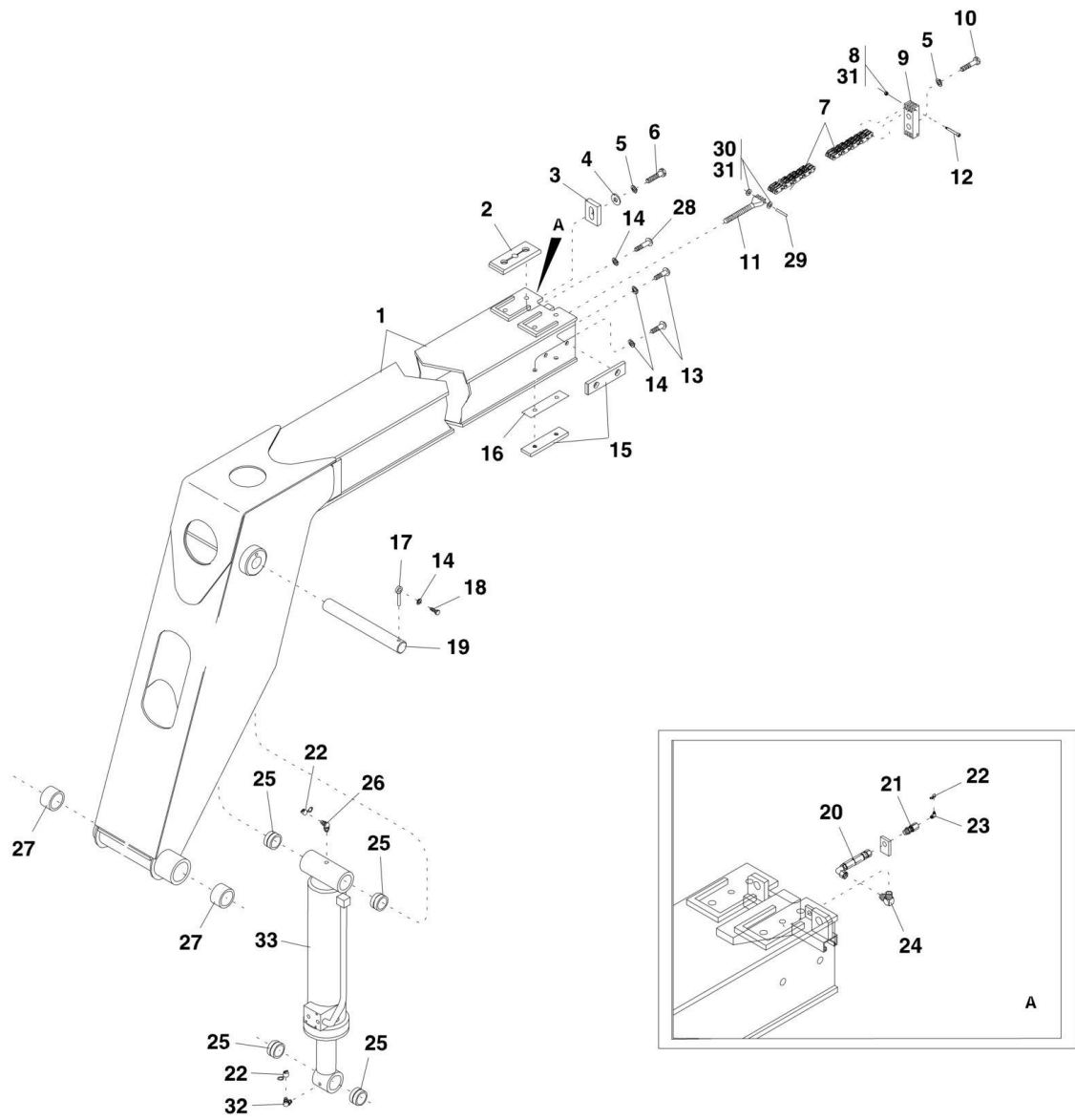
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	1001103580	Ref	THIRD BOOM SECTION SUB ASSY, (Single Aux), (Dual Aux), (not available to order, see items 101 thru 112 for service)	A
7	0642214	4	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5	
8	0682214	2	HEX HD CAPSCREW, 3/4-10X1-3/4, GR8	
9	0682222	3	HEX HD CAPSCREW, 3/4-10X2-3/4, GR8	
11	1101522	1	HOSE SHEAVE, (Single Aux)	
11	1101525	1	HOSE SHEAVE, (Dual Aux)	
13	2160002	2	GREASE FITTING, 1/8, (straight)	
14	2200261	2	COUPLING	
15	2220855	2	ELBOW, 90	
16	2221301	2	ELBOW, 90	
17	2221302	2	CONNECTOR	
21	4711800	4	FLAT WASHER, 1/2	
24	4761500	2	LOCKWASHER, 5/16	
27	4762200	9	LOCKWASHER, 3/4	
30	7139773	1	CHAIN AND CLEVIS ASSY, (includes items 401, 403 & 406 thru 408)	C
31	7139774	1	CHAIN AND CLEVIS ASSY, (includes items 301 thru 306)	B
32		Ref	CHAIN AND CLEVIS ASSY, (See SECOND BOOM SECTION for Breakdown)	
34	8307028	18	LOCKWASHER, 1/2, (external tooth)	
35	8307703	4	FLAT WASHER, 3/4	
36	8310056	6	FLAT WASHER, 1/2	
37	8310061	2	FLAT WASHER, 1	
43	10136329	AR	SHIM, (.06)	
47	10138770	AR	SHIM, (.06)	
49	10139023	4	BOOM PAD	
50	10139287	2	CHAIN SHEAVE PIN	
51	10139530	4	BOOM PAD	
53	10139604	2	BOOM PAD	
54	10139809	4	RETAINER PAD	
56	10167073	2	HOSE ROLLER	
61	10267068	1	LH HOSE ROLLER WELDMENT	
62	10267069	1	RH HOSE ROLLER WELDMENT	
63	10700133	2	BUTTON HD CAPSCREW, 1/2-20X1	
66	10703236	18	HEX HD CAPSCREW, 1/2-20X3/4	
66	10703237	18	HEX HD CAPSCREW, 1/2-20X1	
66	10703242	18	HEX HD CAPSCREW, 1/2-20X1-1/4	
101	10438564	1	THIRD BOOM SECTION WELDMENT	
102	0642010	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR5	
103	1101673	2	CHAIN SHEAVE SUB ASSY, (includes items 201 & 202)	B
104	2160002	2	GREASE FITTING, 1/8, (straight)	
105	4792000	2	STAR WASHER, 5/8	
106	8307028	2	LOCKWASHER, 1/2, (external tooth)	
107	10136329	2	SHIM, (.06)	
108	10139023	1	BOOM PAD	
109	10165735	2	CHAIN SHEAVE PIN	
110	10232432	2	LOCK PIN	
111	10703236	2	BUTTON HD CAPSCREW, 1/2-20X3/4	
112	10720431	AR	SHIM WASHER	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	10165715	2	BUSHING	
202	10265833	2	CHAIN SHEAVE	
301	10138745	1	RETRACTION CHAIN, BL666	
302	10238724	1	CHAIN ANCHOR	
303	10238723	1	CHAIN ANCHOR	
304	10727310	2	BOLT, 5/16X2	
305	10705000	2	LOCKNUT, 1/4-20	
306	8522012	AR	ANTI-SEIZE LUBE	
401	8127030	2	EXTEND CHAIN, BL666	
403	10238661	1	ANCHOR CHAIN	
406	10139379	1	CHAIN ANCHOR ROD	
407	10705001	2	LOCKNUT, 5/16-18	
408	8522012	AR	ANTI-SEIZE LUBE	
513		Ref	EXTEND CHAIN, (See SECOND BOOM SECTION for Breakdown)	

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FIGURE 2-11. FOURTH BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



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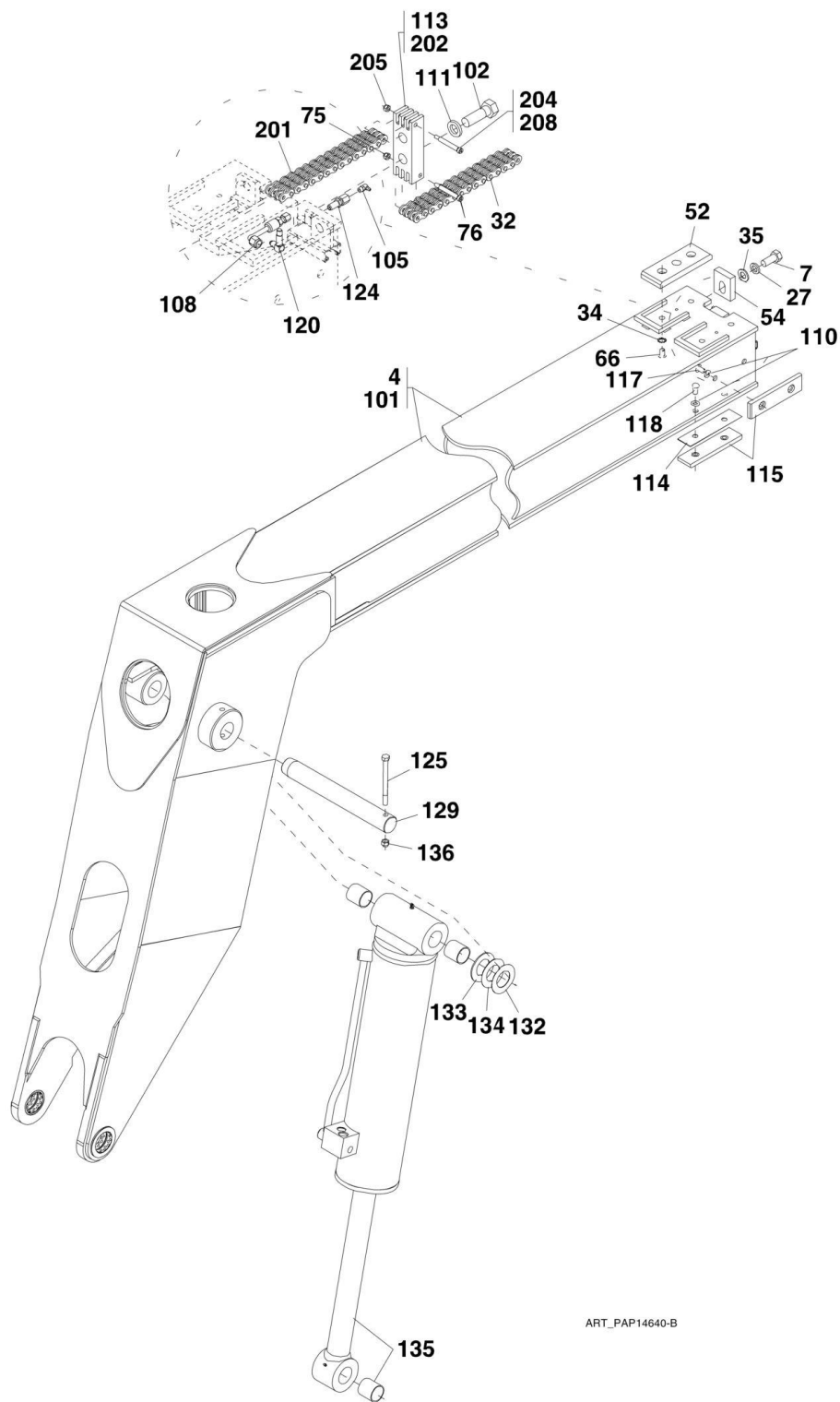
SECTION 2 - BOOM

FIGURE 2-11. FOURTH BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10438563	1	FOURTH BOOM SECTION	
2	10139594	2	BOOM SLIDE PAD, (3/4X3 wide)	
3	10139809	2	PAD RETAINER, ALUMINUM	
4	10701257	2	FLAT WASHER, 3/4	
5	10701315	4	LOCKWASHER, 3/4	
6	10700701	2	HEX HD CAPSCREW, 3/4-10X1-3/4	
7	8127029	1	LEAF CHAIN, (195.75in long)	
8	10705000	1	HEX LOCKNUT, 1/4-20	
9	10238628	1	CHAIN ANCHOR, (rear)	
10	10700728	2	HEX HD CAPSCREW, 3/4-10X2-1/4, GR8	
11	7139032	1	ANCHOR CLEVIS	
12	10727310	2	SHOULDER BOLT, 5/16 DIA X2	
13	10703236	8	SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4, (torque to 85 lb-ft)	
14	10701312	13	LOCKWASHER, 1/2	
15	10139023	4	BOOM SLIDE PAD, (9/16X2 wide)	
16	10136329	2	SLIDE PAD SHIM	
17	3841709	1	LOCK PIN	
18	10700403	1	HEX HD CAPSCREW, 1/2-13X1-1/4	
19	10136541	1	FRONT CARRIAGE TILT CYLINDER PIN, (base end)	
20	2754547	2	GREASE HOSE	
21	80623016	2	BULKHEAD ADAPTER	
22	10732689	5	GREASE FITTING COVER	
23	10715277	2	GREASE FITTING, 90, 1/8	
24	10726600	2	ELBOW, 90	
25	10116228	4	FRONT CARRIAGE TILT CYLINDER BUSHING	
26	10716611	2	GREASE FITTING	
27	10124257	2	QUICK ATTACH PIVOT BOOM BUSHING	
28	10703237	4	SOCKET BUTTON HD CAPSCREW, 1/2-20X1	
29	8124138	1	CHAIN CLEVIS PIN	
30	8642237	2	RETAINING RING	
31	8522012	AR	ANTI-SEIZE LUBE, (apply to items 8 & 30)	
32	10716611	1	GREASE FITTING	
33		Ref	FRONT CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

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FIGURE 2-12. FOURTH BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



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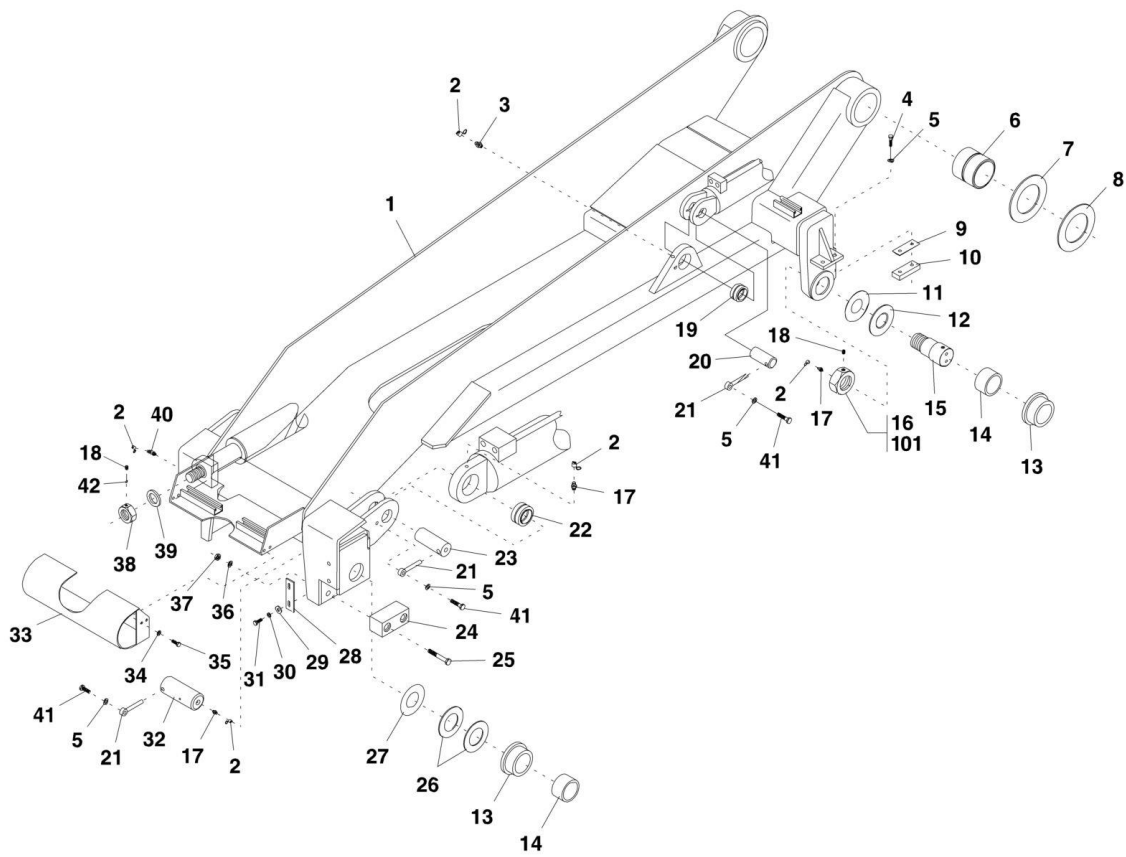
SECTION 2 - BOOM

FIGURE 2-12. FOURTH BOOM SECTION (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	1001103581	Ref	FOURTH BOOM SECTION WELDMENT, (Single Aux), (not available to order, see items 101 thru 136 for service)	G
4	1001103585	Ref	FOURTH BOOM SECTION WELDMENT, (Dual Aux), (not available to order, see items 101 thru 136 for service)	H
7	0642214	2	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5	
27	4762200	2	LOCKWASHER, 3/4	
32		Ref	CHAIN AND CLEVIS ASSY, (See SECOND BOOM SECTION for Breakdown)	
34	8307028	4	LOCKWASHER, 1/2, (external tooth)	
35	8307703	2	FLAT WASHER, 3/4	
52	10139594	2	BOOM PAD	
54	10139809	2	RETAINER PAD	
66	10703236	4	BUTTON HD CAPSCREW, 1/2-20X3/4	
66	10703237	4	BUTTON HD CAPSCREW, 1/2-20X1	
66	10703242	4	BUTTON HD CAPSCREW, 1/2-20X1-1/4	
75	8305624	1	HEX LOCKNUT, 5/16-20	
76	10727310	1	SHOULDER BOLT, 5/16-20	
101	1001098665	1	FOURTH BOOM SECTION WELDMENT	
102	0682218	2	HEX HD CAPSCREW, 3/4-10X2-1/4, GR8, (torque to 420 lb-ft)	
105	10715277	2	90, GREASE FITTING, 1/8	
108	2754547	2	GREASE HOSE	
110	4761800	8	LOCKWASHER, 1/2, (Single Aux)	
110	4761800	6	LOCKWASHER, 1/2, (Dual Aux)	
111	4762200	2	LOCKWASHER, 3/4	
113	7139772	1	CHAIN AND CLEVIS ASSY, (includes items 201 thru 208)	C
114	10136329	2	SHIM, (.06)	
115	10139023	4	BOOM PAD	
117	10703236	4	BUTTON HD CAPSCREW, 1/2-20X3/4, (torque to 64 lb-ft lubricated, 85 lb-ft dry)	
118	10703237	4	BUTTON HD CAPSCREW, 1/2-20X1	
120	10726600	2	ELBOW, 90	
124	80623016	2	BULKHEAD ADAPTER	
125	0641848	1	HEX HD CAPSCREW, 1/2-13X6, GR5	
129	1001109548	1	CYLINDER PIN	
132	8307904	AR	SHIM WASHER, (.042-.054)	
133	8307918	AR	SHIM WASHER, (.142-.126)	
134	8310093	AR	SHIM WASHER, (.082-.068)	
135		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
136	8305644	1	HEX LOCKNUT, 1/2-13	
201	8127029	1	EXTEND CHAIN, BL666	
202	10238628	1	ANCHOR CHAIN	
204	10727310	1	BOLT, 5/16X2	
205	10705000	1	LOCKNUT, 1/4-20	
208	8522012	AR	ANTI-SEIZE LUBE	

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FIGURE 2-13. TRANSFER CARRIAGE/BOOM CRADLE ASSEMBLY



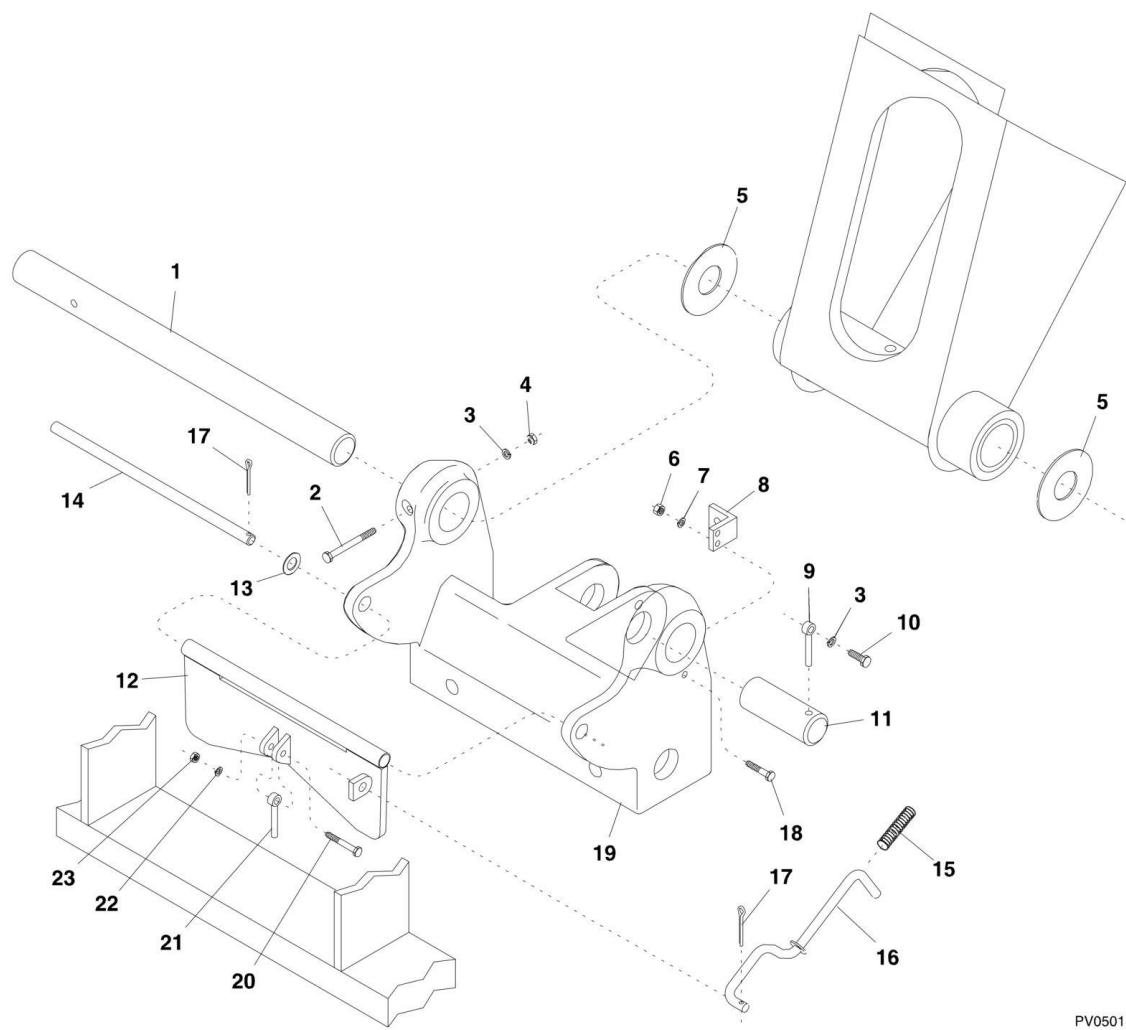
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FIGURE 2-13. TRANSFER CARRIAGE/BOOM CRADLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10338244	1	TRANSFER CARRIAGE	
2	10732689	8	GREASE FITTING COVER	
3	10715272	2	GREASE FITTING, 1/8 N.P.T.	
4	10700453	4	HEX HD CAPSCREW, 1/2-20X1-1/4	
5	10701312	10	LOCKWASHER, 1/2	
6	1101132	2	BOOM PIVOT BUSHING	
7	10138394	AR	SHIM, 0.06, (1.52mm)	
8	10138395	AR	SHIM, 0.12, (3.05mm)	
9	10165110	AR	SLIDE BLOCK SHIM, 11 GA, (.1196in)	
9	10118167	AR	SLIDE BLOCK SHIM, 22 GA, (.0299in)	
10	10165950	2	SLIDE BLOCK, (rear)	
11	10118329	AR	SPACER WASHER	
12	10118328	2	THRUST WASHER	
13	10230339	4	TRANSFER ROLLER	
14	10124257	4	ROLLER BUSHING	
15	10265716	2	REAR ROLLER SPINDLE	
16	10119920	2	REAR ROLLER SPINDLE NUT	
17	10716611	5	GREASE FITTING	
18	10702612	3	SOCKET HD SETSCREW, 3/8-16X1/2	
19	8050001	2	REAR CARRIAGE TILT CYLINDER MOUNT BUSHING	
20	10136464	2	REAR CARRIAGE TILT CYLINDER PIN, (lower)	
21	3841709	6	LOCK PIN	
22	10718830	2	HOIST CYLINDER BUSHING, (base end)	
23	10136487	2	HOIST CYLINDER PIN, (base end)	
24	10115972	2	SLIDE BLOCK, (front)	
25	10700708	4	HEX HD CAPSCREW, 3/4-10X3-1/2	
26	10117012	AR	ROLLER SHIM	
27	10117180	2	ROLLER SPACER	
28	10116309	2	SCRAPER PLATE	
29	10701403	4	FLAT WASHER, 5/16	
30	10701309	4	LOCKWASHER, 5/16	
31	10700102	4	HEX HD CAPSCREW, 5/16-183/4	
32	10138090	2	FRONT ROLLER PIN	
33	10265025	1	PLASTIC HOSE COVER	
34	10701308	4	LOCKWASHER, 1/4	
35	10700004	4	HEX HD CAPSCREW, 1/4-20X3/4	
36	10701315	4	LOCKWASHER, 3/4	
37	10701513	4	HEX NUT, 3/4-10	
38	10116369	1	TRANSFER CYLINDER NUT	
39	10115976	1	CYLINDER ROD BOSS	
40	10715367	1	GREASE FITTING, 45, 1/4	
41	10700403	10	HEX HD CAPSCREW, 1/2-13X1-1/4	
42	1100417	1	LEAD BALL	
101	0100011	AR	LOCTITE 242, (apply to item 16)	

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FIGURE 2-14. QUICK ATTACH GROUP INSTALLATION (Prior to SN 0160037900, Excluding 0160037855)



PV0501

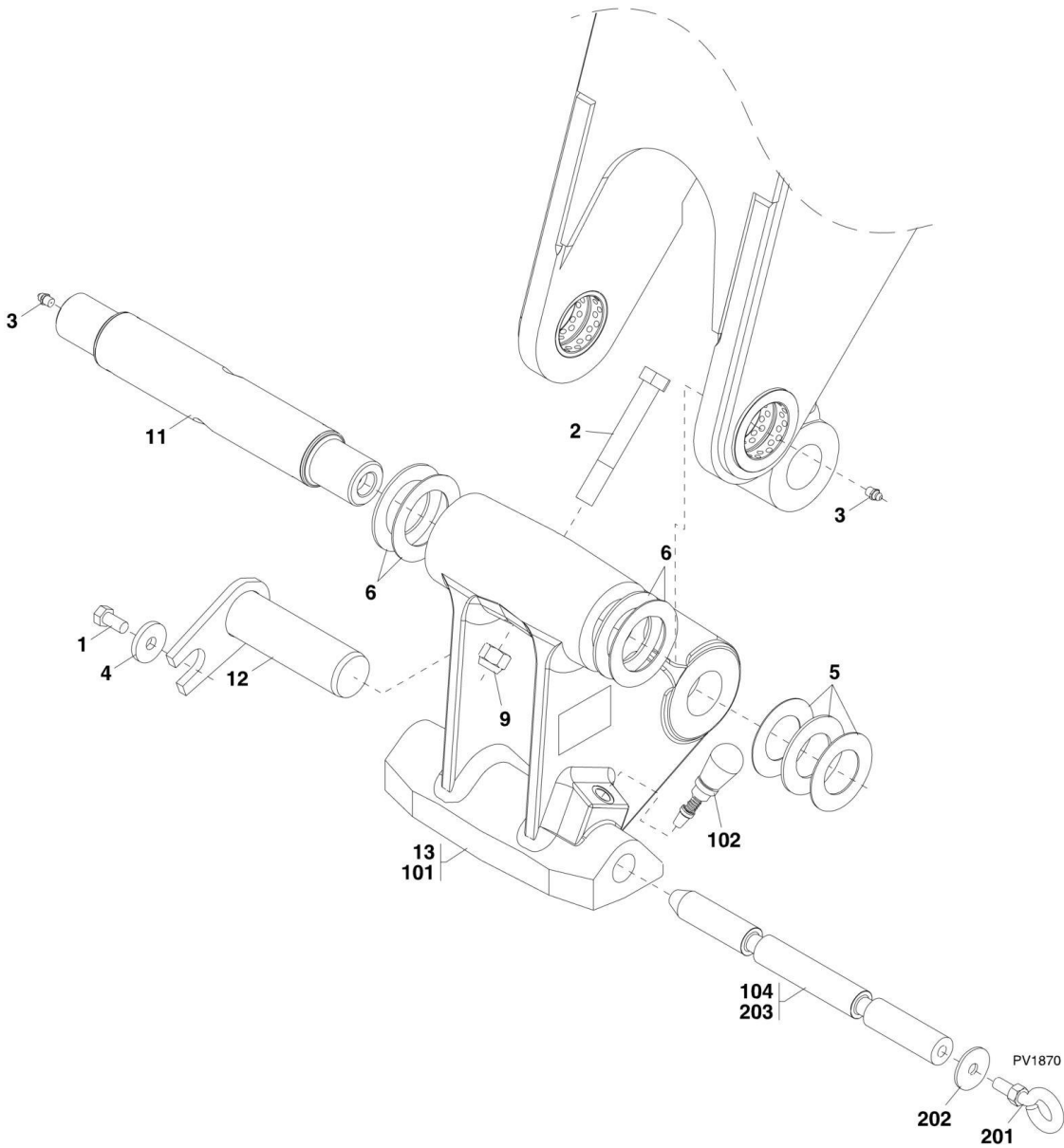
SECTION 2 - BOOM

FIGURE 2-14. QUICK ATTACH GROUP INSTALLATION (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10465744	Ref	QUICK ATTACH INSTALLATION, (not available to order, see items 1 thru 23 for service)	J
1	10136863	1	QUICK ATTACH PIVOT PIN	
2	10700420	1	HEX HD CAPSCREW, 1/2-13X7	
3	10701312	2	LOCKWASHER, 1/2	
4	10701510	1	HEX NUT, 1/2-13	
5	10136013	AR	SHIM, 0.036, (.91mm)	
5	10117012	AR	SHIM, 0.075, (1.90mm)	
6	10701200	2	HEX NUT, 1/4-20	
7	10701308	2	LOCKWASHER, 1/4	
8	10167213	1	ROD SUPPORT BRACKET	
9	3841203	1	LOCK PIN	
10	10700403	1	HEX HD CAPSCREW, 1/2-13X1-1/4	
11	10165667	1	FRONT CARRIAGE TILT PIN, (rod end)	
12	10265671	1	LOCK PLATE	
13	10701411	2	FLAT WASHER, 1	
14	10165668	1	LOCK PIVOT PLATE PIN	
15	10866835	1	RELEASE SPRING	
16	10167059	1	QUICK ATTACH RELEASE ROD	
17	10703865	3	COTTER PIN, 3/16X1-1/2	
18	10700008	2	HEX HD CAPSCREW, 1/4-20X1-3/4	
19	10438176	1	QUICK ATTACH CASTING	
20	10700209	1	HEX HD CAPSCREW, 3/8-16X2-1/4	
21	3841708	1	LOCK PIN	
22	10701310	1	LOCKWASHER, 3/8	
23	10701508	1	HEX NUT, 3/8-16	

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FIGURE 2-15. QUICK ATTACH GROUP INSTALLATION (SN 0160037900 to Present, Including 0160037855)



SECTION 2 - BOOM

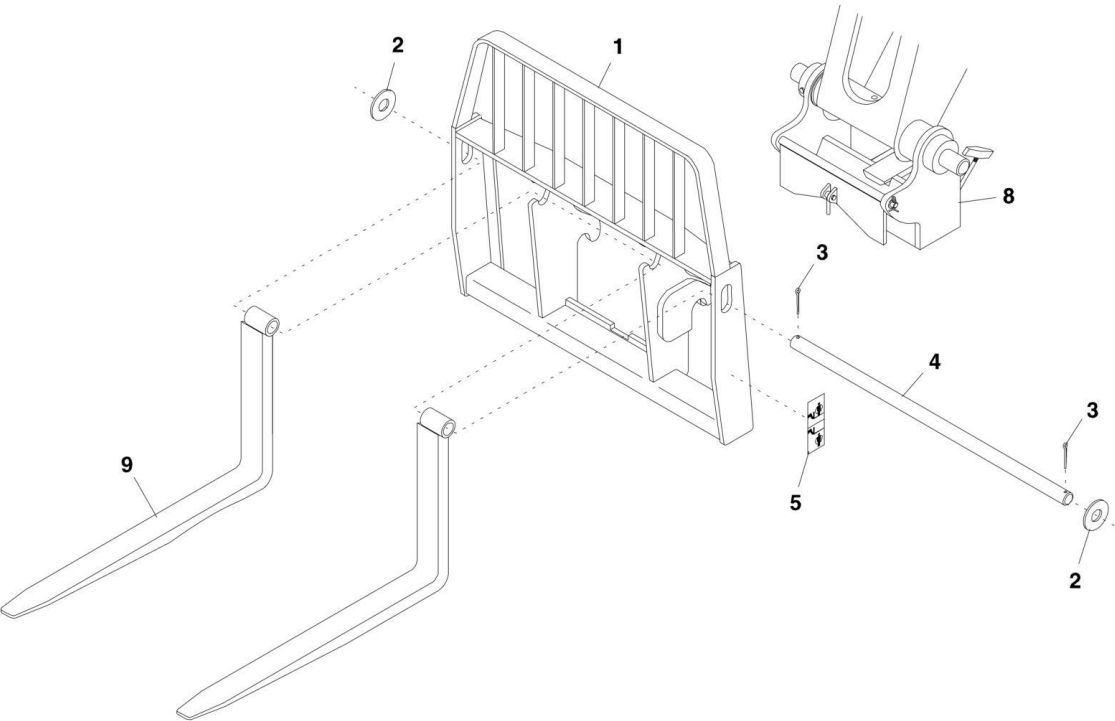
FIGURE 2-15. QUICK ATTACH GROUP INSTALLATION (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108582	1	QUICK ATTACH INSTALLATION, (not available to order, see items 1 thru 13 for service)	A
1	0641808	1	HEX HD CAPSCREW, 1/2-13X1, GR5	
2	0682244	1	HEX HD CAPSCREW, 3/4-10X5-1/2, GR8	
3	2160002	2	GREASE FITTING, (straight)	
4	4740003	1	FLAT WASHER	
5	8307904	AR	SHIM WASHER, (.048)	
5	8310093	AR	SHIM WASHER, (.075)	
5	8307918	AR	SHIM WASHER, (.134)	
6	8307916	AR	SHIM WASHER, (.075)	
6	8307917	AR	SHIM WASHER, (.134)	
9	8310067	1	HEX LOCKNUT, 3/4-10	
11	1001098233	1	QUICK ATTACH CARRIAGE PIVOT PIN	
12	1001098492	1	QUICK ATTACH CYLINDER PIN WELDMENT	
13	1001098770	1	QUICK ATTACH COUPLING ASSY, (includes items 101 thru 104)	D
101	1001100756	1	QUICK ATTACH COUPLING	
102	1001143692	1	POPPIN PIN	
104	1001105441	1	QUICK ATTACH PIVOT LOCK PIN, (includes items 201 thru 203)	B
201	8310266	1	HEX NUT, 1/2-13	
202	8310276	1	WASHER	
203	1001105440	1	QUICK ATTACH LOCK PIN	

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FIGURE 3-1. CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1171

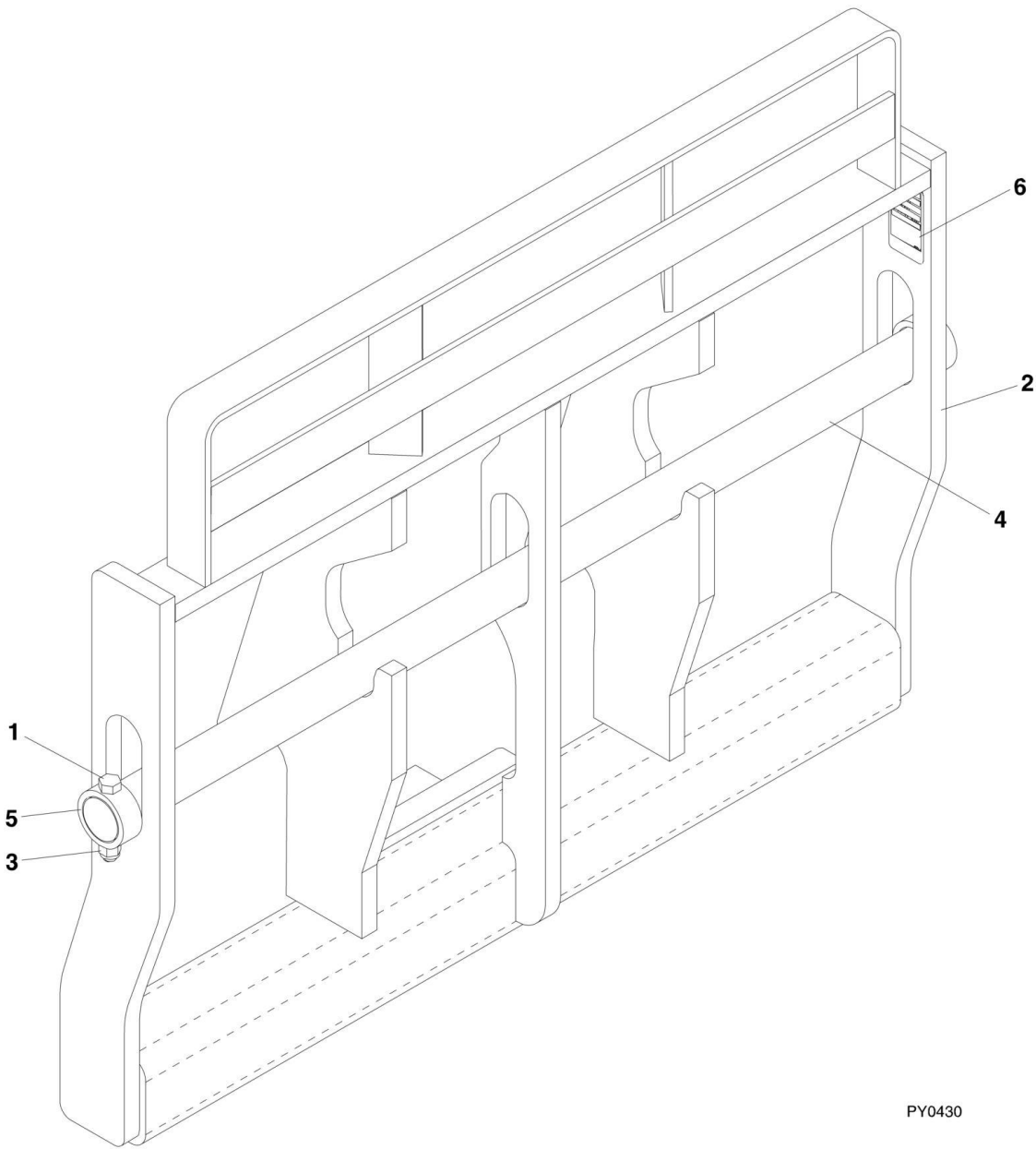
SECTION 3 - ATTACHMENTS

FIGURE 3-1. CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	48040	1	50IN STANDARD CARRIAGE ASSY, (includes items 1 thru 5 & item 10)	3
	48042	1	74IN FRAMERS CARRIAGE ASSY, (includes items 1 thru 5 & item 10)	3
1	N.S.S.	1	CARRIAGE WELDMENT, (50in)	
1	N.S.S.	1	CARRIAGE WELDMENT, (74in)	
2	10138066	2	FORK SHAFT WASHER	
3	10703906	2	COTTER PIN, 3/8X3	
4	10223049	1	FORK SHAFT, (50in)	
4	10124495	1	FORK SHAFT, (74in)	
5	10224752	2	CARRIAGE SAFETY DECAL	
8		Ref	QUICK ATTACH GROUP, (See BOOM SECTION for Breakdown)	
9		Ref	FORK, (See FORKS for Breakdown)	
10	N.S.S.	1	SN PLATE, (not shown)	

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FIGURE 3-2. CARRIAGE ASSEMBLY (SN 0160037900 through 0160051920, Including 0160037855)



PY0430

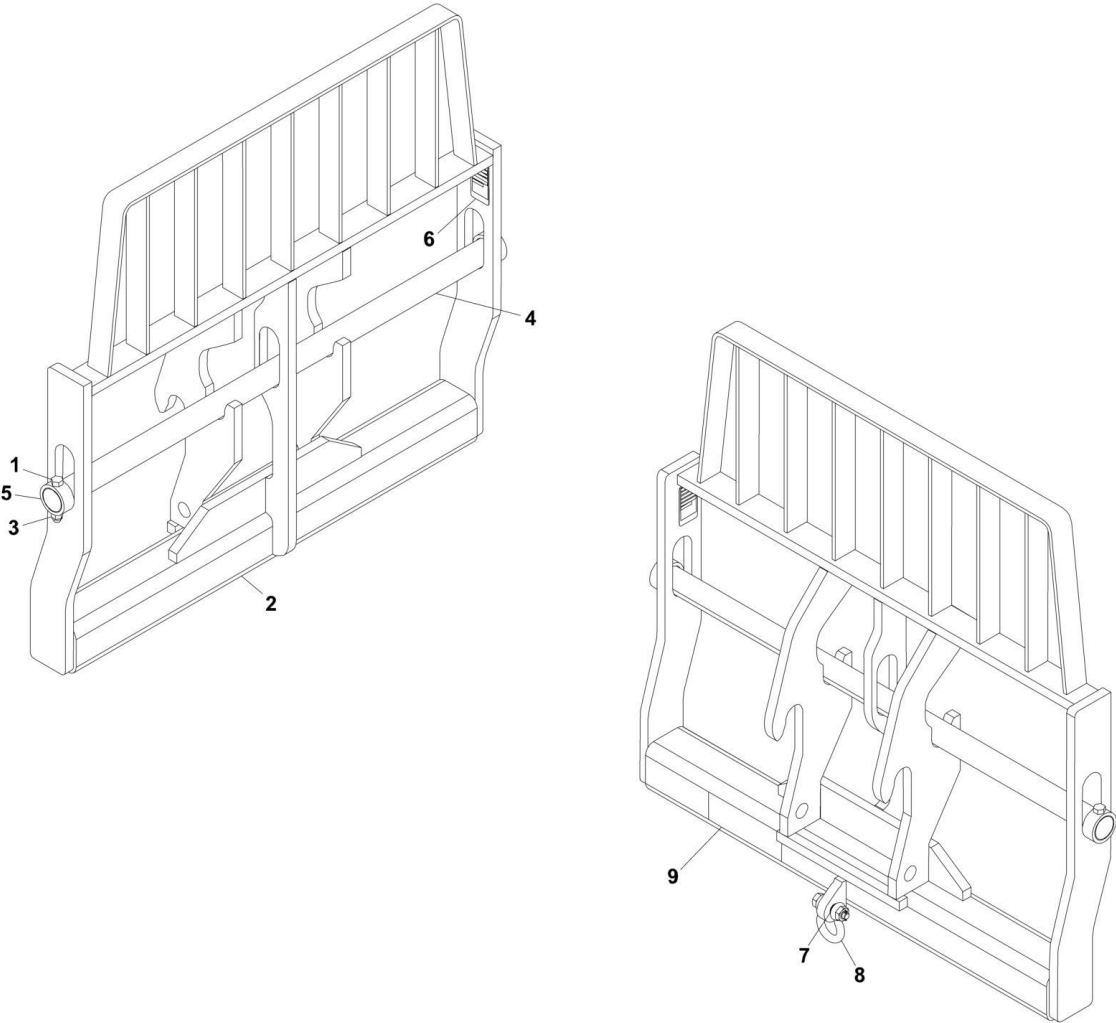
SECTION 3 - ATTACHMENTS

FIGURE 3-2. CARRIAGE ASSEMBLY (SN 0160037900 through 0160051920, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170021	1	50IN TILT CARRIAGE, (includes all items)	E
	1170024	1	60IN TILT CARRIAGE, (includes all items)	E
	1170027	1	72IN TILT CARRIAGE, (includes items 1 thru 6) (Prior to SN 0160042910)	E
	1001132514	1	72IN TILT CARRIAGE, (includes items 1 thru 6) (SN 0160042910 through 0160051920)	B
1	0642032	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
2	N.S.S.	1	TILT CARRIAGE	
3	3300240	2	LOCKNUT, 5/8-11	
4	3423275	1	50IN FORK PIN	
4	3423242	1	60IN FORK PIN	
4	3423276	1	72IN FORK PIN	
5	90200003	2	COLLAR	
6	N.S.S.	1	SN PLATE	

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FIGURE 3-3. CARRIAGE ASSEMBLY (SN 0160051921 to Present)



ART_31200069-3-3

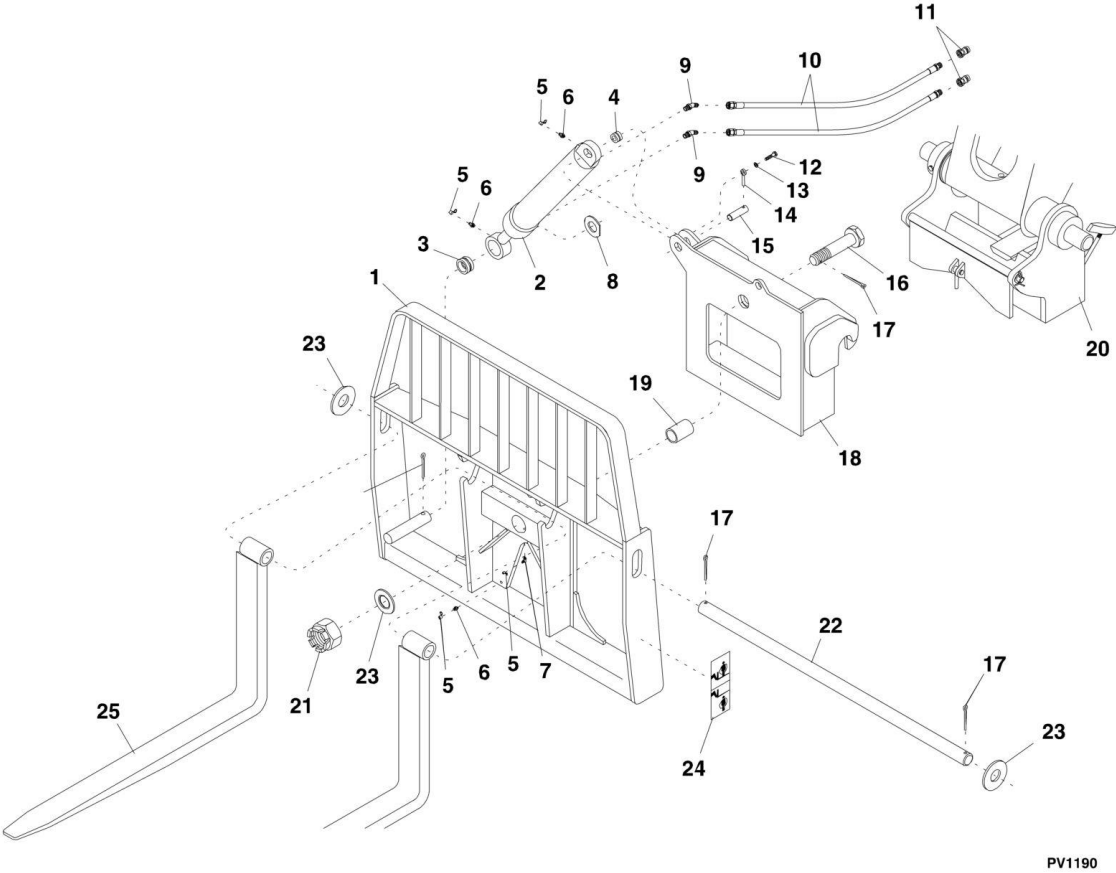
SECTION 3 - ATTACHMENTS

FIGURE 3-3. CARRIAGE ASSEMBLY (SN 0160051921 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001146084	1	50IN TILT CARRIAGE, (includes items 1 thru 10)	C
	1001146086	1	60IN TILT CARRIAGE, (includes items 1 thru10)	C
	1001146088	1	72IN TILT CARRIAGE, (includes items 1 thru 10)	C
1	0642032	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
2	N.S.S.	1	TILT CARRIAGE	
3	3300240	2	LOCKNUT, 5/8-11	
4	3423275	1	50IN FORK PIN	
4	3423242	1	60IN FORK PIN	
4	3423276	1	72IN FORK PIN	
5	90200003	2	COLLAR	
6	N.S.S.	1	SN PLATE	
7	1001146159	1	SLEEVE	
8	1001146160	1	SHACKLE	
9	1001151561	1	DANGER SWING LOADS DECAL	

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FIGURE 3-4. TILT CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1190

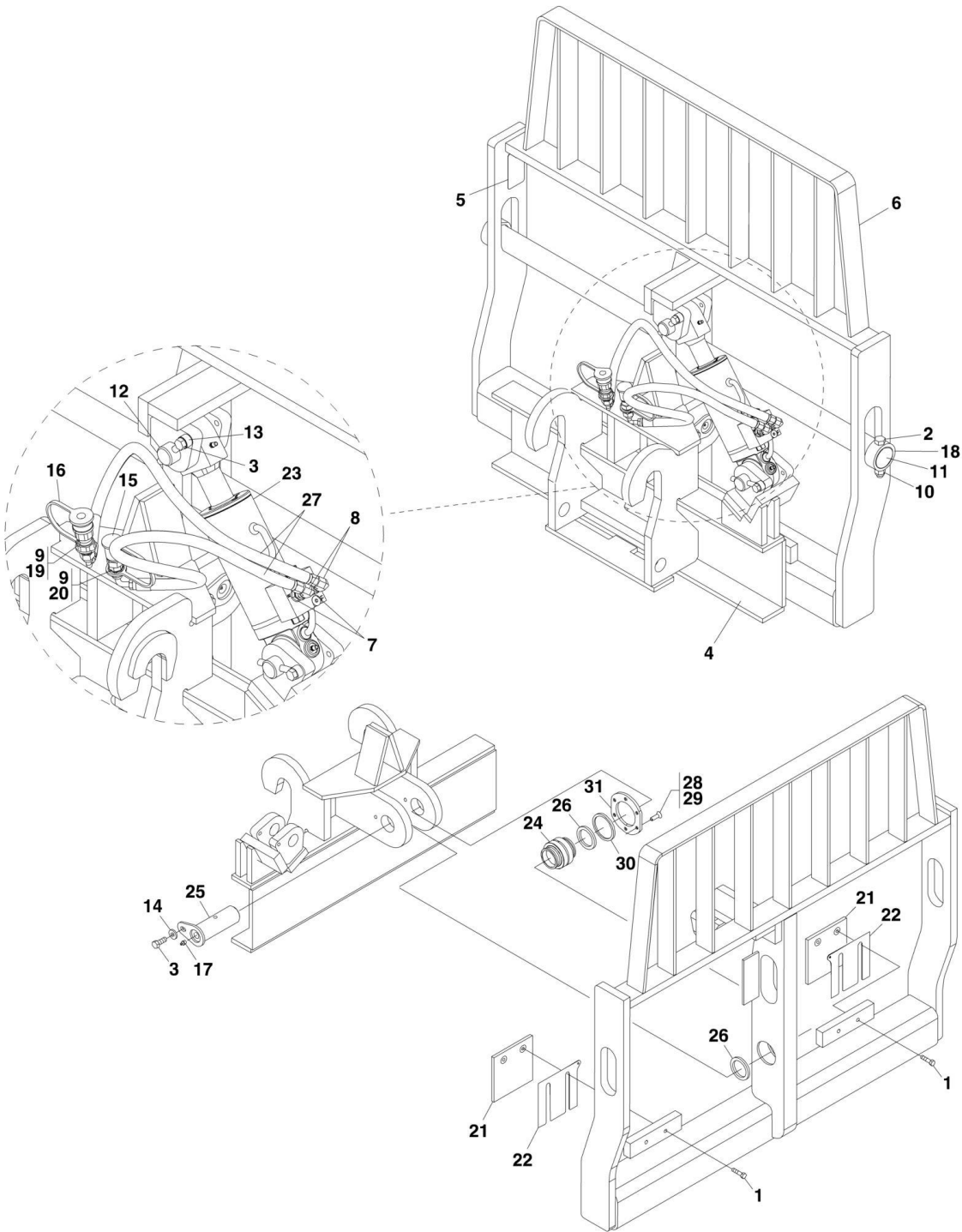
SECTION 3 - ATTACHMENTS

FIGURE 3-4. TILT CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	48041	1	50IN TILT CARRIAGE ASSY, (includes items 1 thru 19, 21 thru 24 & 26)	4
	48043	1	74IN FRAME TILT CARRIAGE ASSY, (includes items 1 thru 19, 21 thru 24 & 26)	5
1	N.S.S.	1	TILT CARRIAGE WELDMENT, (50in)	
1	N.S.S.	1	TILT CARRIAGE WELDMENT, (74in)	
2		Ref	TILT CARRIAGE CYLINDER, (includes items 3 & 4), (See OPTIONS SECTION for Breakdown)	
3	10116228	1	CYLINDER BUSHING, (rod end)	
4	10116227	1	CYLINDER BUSHING, (base end)	
5	10732689	5	GREASE FITTING COVER	
6	11160110	4	GREASE FITTING	
7	11160140	1	GREASE FITTING, 90	
8	10116323	1	SPECIAL WASHER	
9	2220501	2	ELBOW, 45, (includes o-ring)	
10	10837863	2	HOSE ASSY, (o-rings ends)	
11	10866136	2	MALE QUICK COUPLER, (includes o-ring)	
11	10730518	AR	DUST CAP	
12	14994050	1	HEX HD CAPSCREW, 1/2-13X1-1/4	
13	11009080	1	LOCKWASHER, 1/2	
14	10135707	1	LOCK PIN	
15	10138014	1	TILT CYLINDER PIN	
16	10138065	1	CARRIAGE BOLT	
17	10703906	4	COTTER PIN, 3/8X3	
18	10338004	1	INNER CARRIAGE	
19	10138013	1	PIVOT SLEEVE	
20		Ref	QUICK ATTACH GROUP ASSY, (See BOOM SECTION for Breakdown)	
21	10837794	1	CASTLE HEX NUT, 2-12	
22	10223049	1	FORK SHAFT, (50in)	
22	10124495	1	FORK SHAFT, (74in)	
23	10138066	3	FORK SHAFT WASHER	
24	10224752	2	CARRIAGE SAFETY DECAL	
25		Ref	FORKS, (See FORKS for Breakdown)	
26	N.S.S.	1	SN PLATE, (not shown)	

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FIGURE 3-5. TILT CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



ART_31200069-3-5

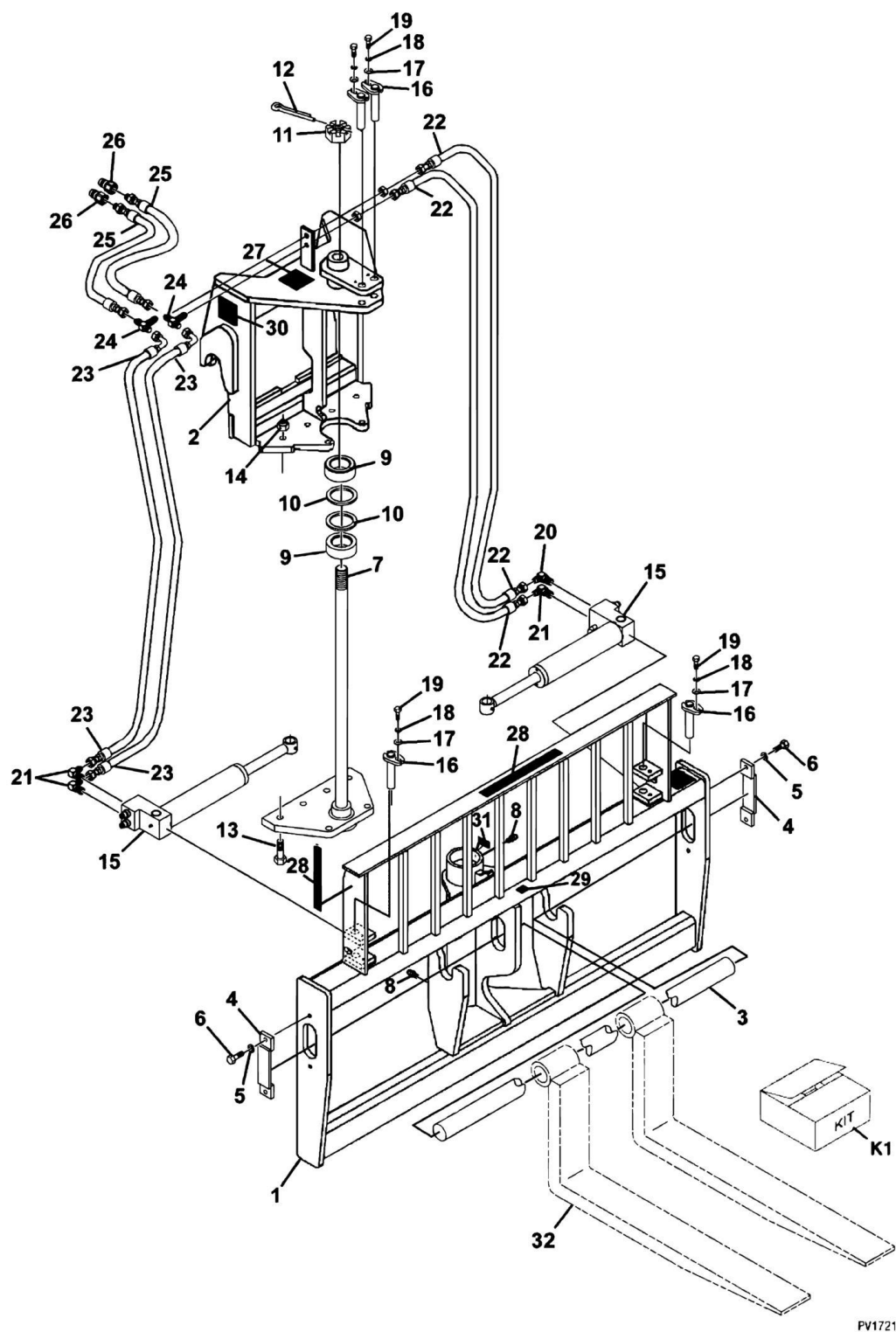
SECTION 3 - ATTACHMENTS

FIGURE 3-5. TILT CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170054	1	50IN SIDE TILT CARRIAGE, (includes all items)	J
	1001101956	1	60IN SIDE TILT CARRIAGE, (includes all items)	J
	1170057	1	72IN SIDE TILT CARRIAGE, (includes all items)	J
1	0641612	4	HEX HD CAPSCREW, 3/8-16X1-1/2	
2	0642032	2	HEX HD CAPSCREW, 5/8-11X4	
3	0681810	3	HEX HD CAPSCREW, 1/2-13X1-1/4	
4	1001133072	1	CARRIAGE BASE	
5	N.S.S.	1	SN PLATE	
6	N.S.S.	1	CARRIAGE, SIDE TILT	
7	2110606	2	CONNECTOR	
8	2172106	2	CONNECTOR, 90	
9	2110808	2	CONNECTOR	
10	3300240	2	LOCK NUT, 5/8-11	
11	3423275	1	FORK PIN, (50in)	
11	3423242	1	FORK PIN, (60in)	
11	3423276	1	FORK PIN, (72in)	
12	3423307	2	PIN	
13	3841203	2	KEEPER	
14	4891800	1	WASHER, 1/2	
15	8420053	1	DUST CAP	
16	8420055	1	DUST PLUG	
17	88671001	1	GREASE FITTING	
18	90200003	2	COLLAR	
19	91403413	1	CONNECTOR	
20	91403414	1	CONNECTOR	
21	1001090063	2	WEAR PAD	
22	1001090064	AR	SHIM	
23		Ref	SIDE TILT CARRIAGE CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
24	1001090140	1	BEARING	
25	1001099113	1	PIN	
26	1001099115	2	SLEEVE	
27	1001102378	2	HOSE ASSY, 3/8X39	
28	0100011	AR	LOCTITE 242, (apply to item 29)	
29	0741610	6	FLAT HEAD SOCKET SCREW, 3/8-16	
30	1001120914	1	BEARING RETAINER SHIM	
31	1001120915	1	BEARING RETAINER PLATE	

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FIGURE 3-6. SWING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



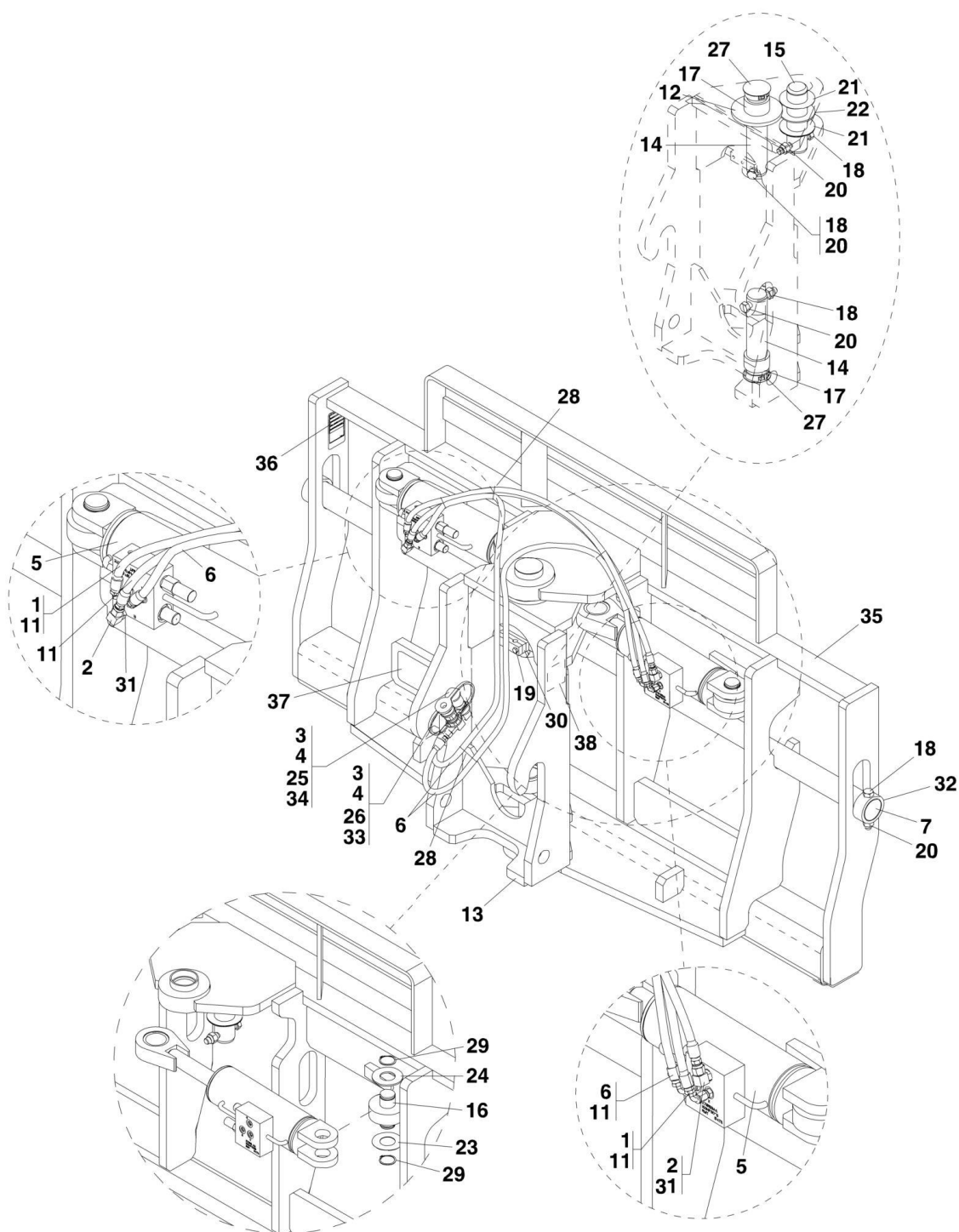
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FIGURE 3-6. SWING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1100532	1	72IN WIDE SWING CARRIAGE ASSY, (includes items 1 thru 31)	D
1	N.S.S.	1	SWING CARRIAGE	
2	N.S.S.	1	SWING FRAME	
3	7029710	1	FORK PIN	
4	7029690	2	FORK PIN RETAINER WELDMENT	
5	90554020	4	LOCKWASHER, 1/2	
6	7029691	4	HEX HD CAPSCREW, 1/2-20X1-1/4	
7	7029693	1	SWING POST WELDMENT	
8	7029714	4	LUBE FITTING, 1/8	
9	7029694	2	BEARING	
10	7029695	2	THRUST WASHER	
11	7029713	1	CASTLE NUT, 1-1/2	
12	7029700	1	COTTER PIN, 1/4X2-1/2	
13	7029697	6	HEX HD CAPSCREW, 3/4-16X3	
14	7029698	6	LOCKNUT, 3/4-16	
15	7029590	2	CYLINDER ASSY	
16	7029702	4	LOCKING PIN	
17	7029703	4	FLAT WASHER, 3/8	
18	90554042	4	LOCKWASHER, 3/8	
19	7029704	4	HEX HD CAPSCREW, 3/8-24X1	
20	7029705	1	ELBOW, 90	
21	90554065	3	ELBOW, 90	
22	7029706	2	HOSE ASSY	
23	7029707	2	HOSE ASSY	
24	7029708	2	TEE, (includes nut)	
25	7029709	2	HOSE ASSY	
26	7029692	2	MALE QUICK COUPLER	
27	7029711	1	HIGH PRESSURE WARNING DECAL	
28	7029699	2	MAJOR DECAL, (small)	
28	7029701	1	MAJOR DECAL, (large)	
29	90554016	1	USA DECAL	
30	90554018	2	PINCH POINT DANGER DECAL	
31	7029712	6	GREASE DECAL	
32		Ref	FORKS, (See FORKS for Breakdown)	
33		Ref	LOAD CHART, (not shown), (See DECALS SECTION for Breakdown)	
34	N.S.S.	1	SN PLATE, (not shown)	
K1	70021452	1	CYLINDER SEAL KIT	

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FIGURE 3-7. SWING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



PAP3360

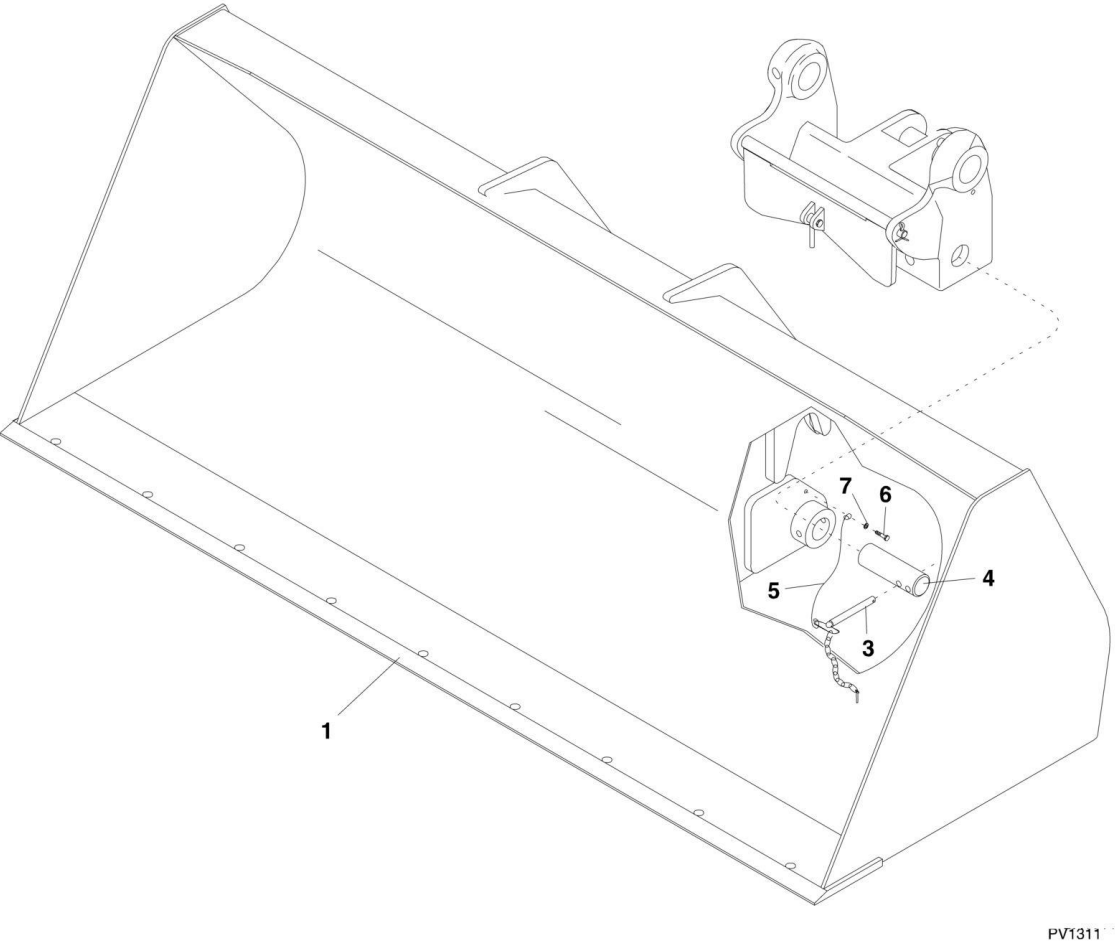
SECTION 3 - ATTACHMENTS

FIGURE 3-7. SWING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001095418	1	72IN 90, SWING CARRIAGE, (includes all items)	K
1	2220415	4	CONNECTOR	
2	2220473	2	CONNECTOR, 90	
3	2220609	2	CONNECTOR	
4	2220628	2	CONNECTOR, 90	
5		Ref	72IN 90, SWING CARRIAGE CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
6	2717287	2	HOSE ASSY, 1/4X58	
7	3423276	1	PIN	
11	6604662	2	HOSE ASSY, 1/4X40.5	
12	7062922	1	WASHER	
13	N.S.S.	1	PIVOT WELDMENT	
14	7110702	2	PIVOT PIN	
15	7110712	1	PIN	
16	7110722	2	PIN	
17	8065062	2	BUSHING	
18	8303634	5	HEX HD CAPSCREW, 5/8-11X4, GR5	
19	8303715	3	HEX HD CAPSCREW, 5/16-18X1.5, GR5	
20	8305643	5	HEX NUT, 5/8-11	
21	8307904	AR	SHIM	
22	8307918	AR	SHIM	
23	8310160	AR	SHIM	
24	8310161	AR	SHIM	
25	8420053	1	DUST CAP	
26	8420055	1	DUST PLUG	
27	8580315	2	PLUG	
28	8584001	5	TIE WRAP	
29	8642207	4	RETAINING RING	
30	8769132	2	CLAMP	
31	8770016	2	CONNECTOR	
32	90200003	2	COLLAR	
33	91403413	1	CONNECTOR	
34	91403414	1	CONNECTOR	
35	N.S.S.	1	CARRIAGE FRAME	
36	N.S.S.	1	SN PLATE	
37	1001110704	1	WARNING CRUSH HAZARD DECAL	
38	1001111190	2	WARNING DECAL	

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FIGURE 3-8. UTILITY BUCKET (Prior to SN 0160037900, Excluding 0160037855)



PV1311

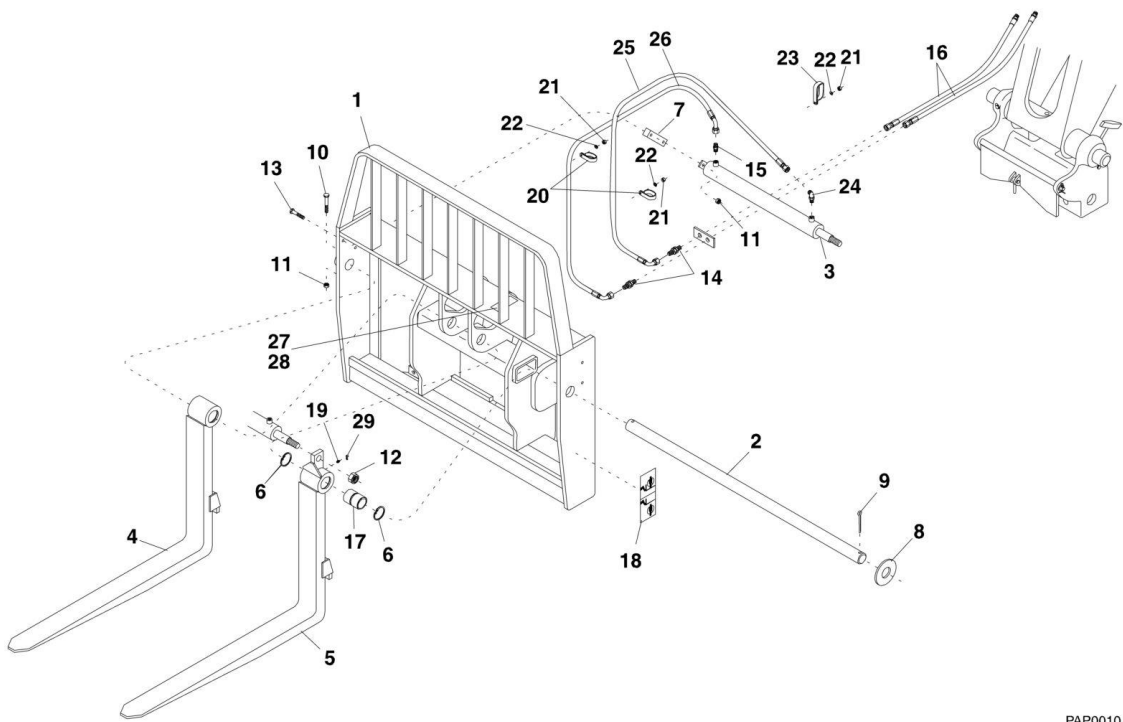
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FIGURE 3-8. UTILITY BUCKET (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1101435	1	UTILITY BUCKET ASSY 1.25 CU YD, (includes all items)	C
1	10439995	1	UTILITY BUCKET WELDMENT	
2	10239973	1	CAUTION DECAL, (not shown), (apply to inside back cover of operators manual)	
3	10867583	2	HITCH PIN	
4	10168505	2	PIN	
5	10867584	2	PIN ATTACHMENT CABLE	
6	10700202	2	HEX HD CAPSCREW, 3/8-16X3/4	
7	10701404	2	FLAT WASHER, 3/8	

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FIGURE 3-9. 50IN SINGLE FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PAP0010

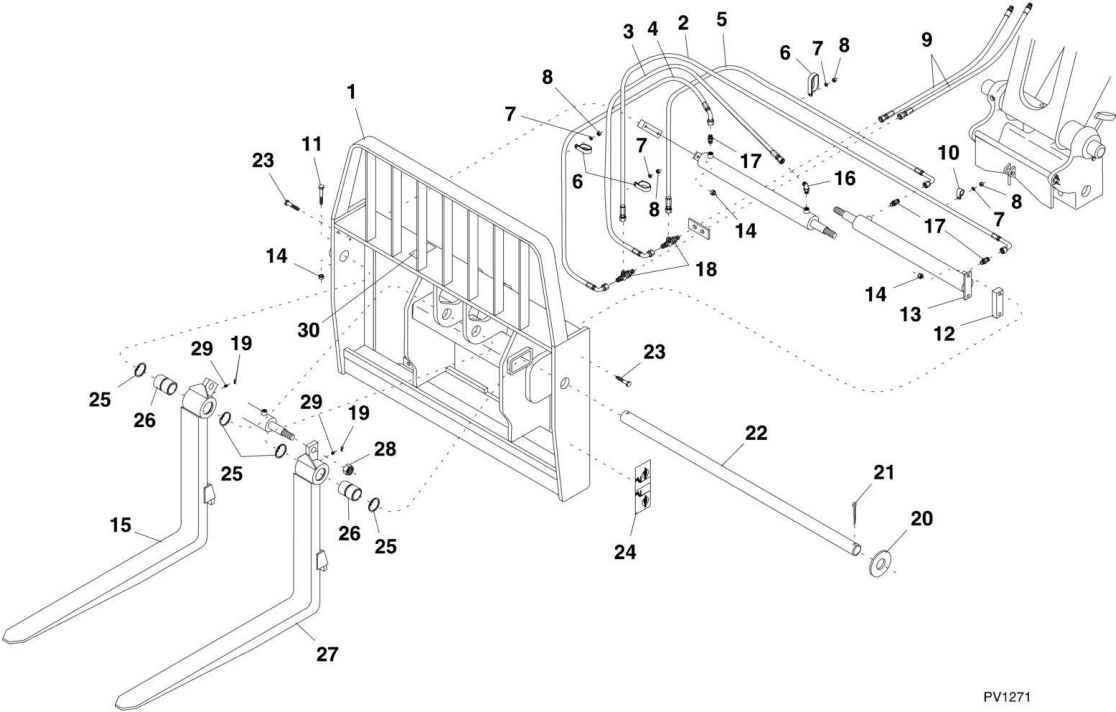
SECTION 3 - ATTACHMENTS

**FIGURE 3-9. 50IN SINGLE FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900,
Excluding 0160037855)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1100469	1	50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY, (includes all items)	C
1	10465660	1	CARRIAGE ASSY	
2	10165685	1	FORK SHAFT	
3		Ref	FORK POSITIONING CYLINDER, (See OPTIONS SECTION for Breakdown)	
4	10238569	1	RH 48IN PALLET FORK	
5	1100439	1	LH 48IN PALLET FORK	
6	10727322	2	INTERNAL SNAP RING	
7	10138493	1	SPACER	
8	10701419	1	FORK SHAFT WASHER	
9	10703906	1	COTTER PIN, 3/8X3	
10	10700411	1	HEX HD CAPSCREW, 1/2-13X3-1/4	
11	10705004	3	HEX LOCKNUT, 1/2-13, GRC	
12	10705034	1	HEX LOCKNUT, 1-1/4, GRC	
13	10700409	2	HEX HD CAPSCREW, 1/2-13X2-3/4	
14	2230024	2	BULKHEAD UNION	
15	2220371	1	CONNECTOR, (includes o-ring)	
16	10837863	2	HOSE ASSY	
17	10165693	1	BUSHING	
18	10224752	2	CARRIAGE SAFETY DECAL	
19	10716611	1	GREASE FITTING	
20	10717810	2	HOSE CLAMP	
21	10701201	3	HEX NUT, 5/16-18, GR8	
22	10701309	3	LOCKWASHER, 5/16	
23	10717553	1	HOSE CLAMP	
24	2220501	1	ELBOW, 45, (includes o-ring)	
25	10719736	1	HOSE ASSY	
26	10837523	1	HOSE ASSY	
27	N.S.S.	1	SN PLATE	
28	10837315	4	METAL TACK	
29	10732689	1	GREASE FITTING COVER	

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FIGURE 3-10. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



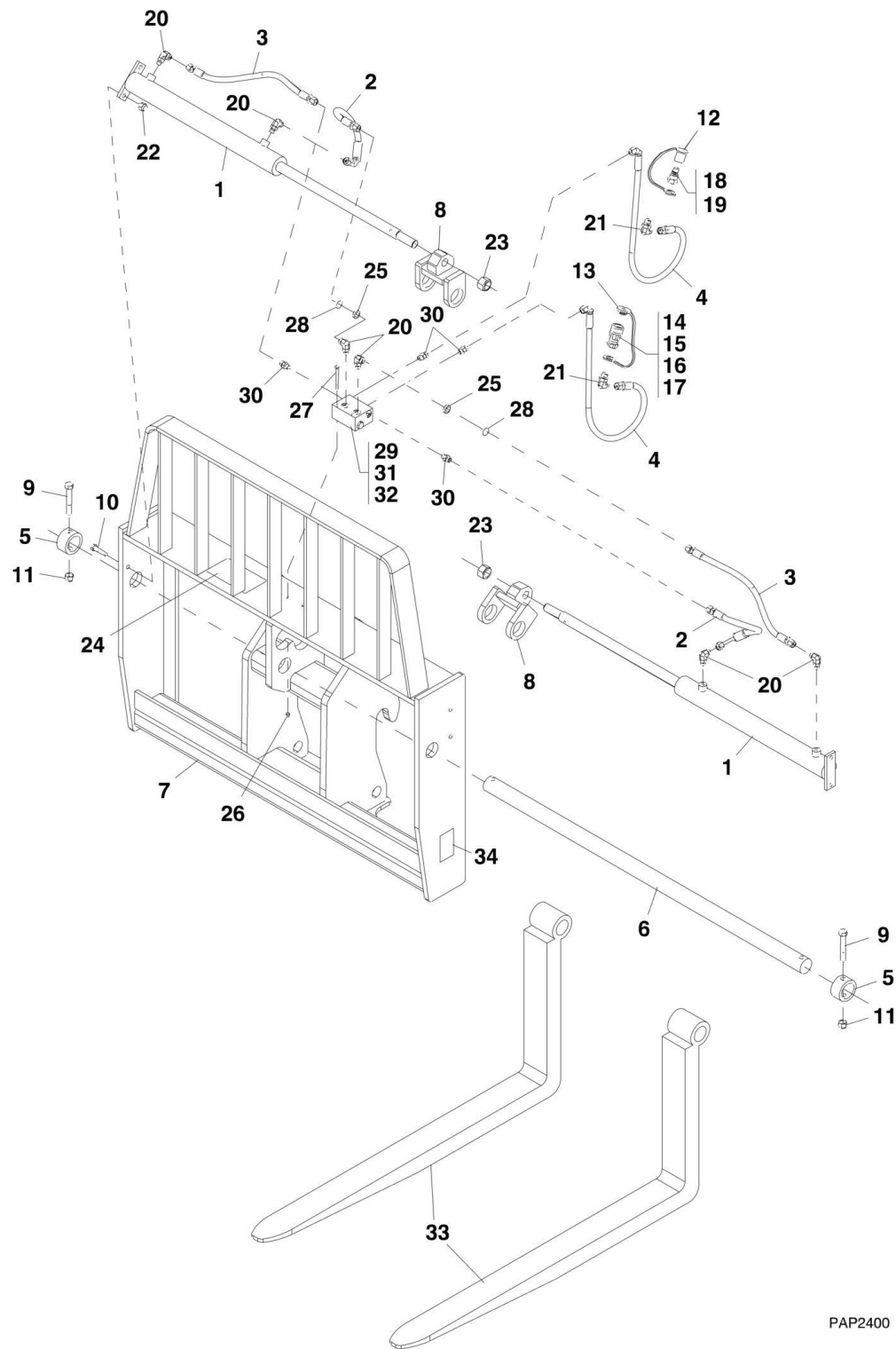
SECTION 3 - ATTACHMENTS

**FIGURE 3-10. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900,
Excluding 0160037855)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10448045	1	50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY, (includes all items)	G
1	10465660	1	CARRIAGE ASSY	
2	10837517	1	HOSE ASSY	
3	10719736	1	HOSE ASSY	
4	10837523	1	HOSE ASSY	
5	10837519	1	HOSE ASSY	
6	10717810	3	HOSE CLAMP	
7	10701309	4	LOCKWASHER, 5/16	
8	10701201	4	HEX NUT, 5/16-18, GR8	
9	10837863	2	HOSE ASSY	
10	10717553	1	HOSE CLAMP	
11	10700411	4	HEX HD CAPSCREW, 1/2-13X3-1/4	
12	10138493	2	SPACER	
13		Ref	FORK POSITIONING CYLINDER, (See OPTIONS SECTION for Breakdown)	
14	10705004	5	HEX LOCKNUT, 1/2-13, GRC	
15	10365686	1	RH 42IN PALLET FORK	
16	2220501	1	ELBOW, 45, (includes o-ring)	
17	2220371	3	CONNECTOR, (includes o-ring)	
18	10725302	2	BULKHEAD TEE	
19	10732689	2	GREASE FITTING COVER	
20	10701419	2	FORK SHAFT WASHER	
21	10703906	2	COTTER PIN, 3/8X3	
22	10165685	1	FORK SHAFT	
23	10700409	4	HEX HD CAPSCREW, 1/2-13X2-3/4	
24	10224752	2	CARRIAGE SAFETY DECAL	
25	10727322	4	INTERNAL SNAP RING	
26	10165693	2	BUSHING	
27	10365687	1	LH 42IN PALLET FORK	
28	10705034	2	HEX LOCKNUT, 1-1/4, GRC	
29	10716611	2	GREASE FITTING	
30	N.S.S.	1	SN PLATE	

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FIGURE 3-11. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



PAP2400

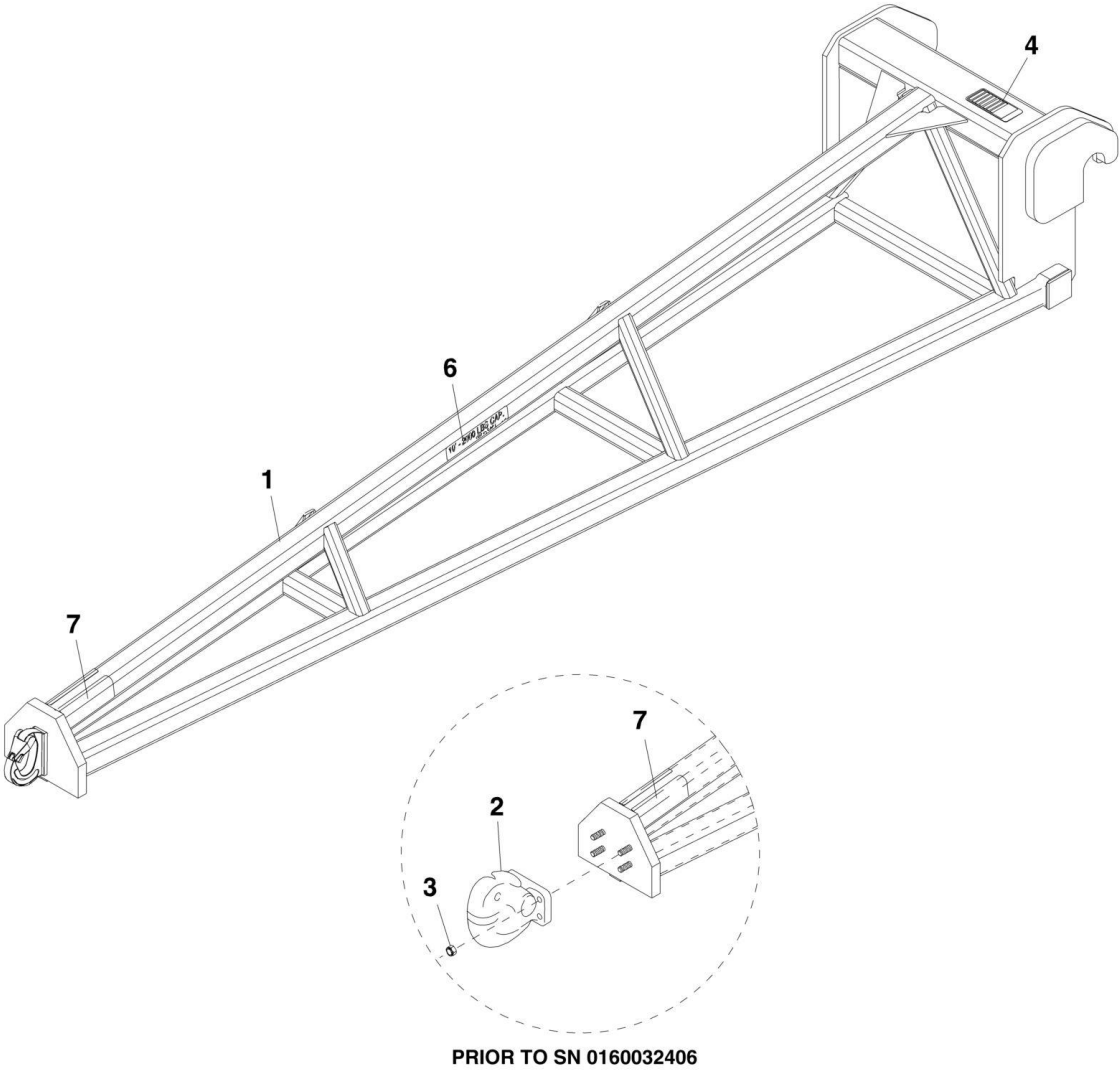
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FIGURE 3-11. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301568	1	50IN DUAL FORK POSITIONING CARRIAGE ASSY, (includes items 1 thru 32)	H
1	2717283	2	FORK POSITIONING CYLINDER	
1	8036733	1	SEAL KIT	
2	2717160	2	HOSE ASSY	
3	2717161	2	HOSE ASSY	
4	2717162	2	HOSE ASSY	
5	90200003	2	LOCKING HUB	
6	90451058	1	FORK SHAFT	
7	7301569	1	50IN CARRIAGE WELDMENT	
8	7301579	2	FORK ADAPTER WELDMENT	
9	8303634	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
10	8303658	4	HEX HD CAPSCREW, 1/2-13X2, GR5	
11	8305643	2	HEX LOCKNUT, 5/8-11	
12	8420053	1	DUST CAP	
13	8420055	1	DUST PLUG	
14	91403413	1	FEMALE QUICK DISCONNECT, (includes items 15 thru 17)	
15	8640029	1	NOSE SEAL	
16	8640028	1	COUPLER BODY SEAL	
17	8640032	1	COUPLER BODY SEAL BACK-UP RING	
18	91403414	1	MALE QUICK DISCONNECT, (includes item 19)	
19	8640029	1	NOSE SEAL	
20	2130606	6	ELBOW, 90	
21	2130608	2	ELBOW, 90	
22	8310302	4	HEX LOCKNUT, 1/2-13	
23	10705034	2	HEX LOCKNUT	
24	4110473	1	HOSE ROUTE WARNING DECAL	
25	7139918	2	DISC ORIFICE	
26	8305624	2	HEX LOCKNUT, 1/4-20	
27	8310435	2	HEX HD CAPSCREW, 1/4-20X3-1/4, GR5	
28	8630003	2	O-RING	
29	4641502	1	VALVE ASSY, (Includes items 30 thru 32)	
30	2110606	4	ADAPTER	
31	4641501	1	VALVE BODY	
32	2130606	2	CONNECTOR	
33	7301408	2	PALLET FORK, 60X100X1220mm	
34	N.S.S.	1	SN PLATE	

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FIGURE 3-12. TRUSS BOOM ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1291

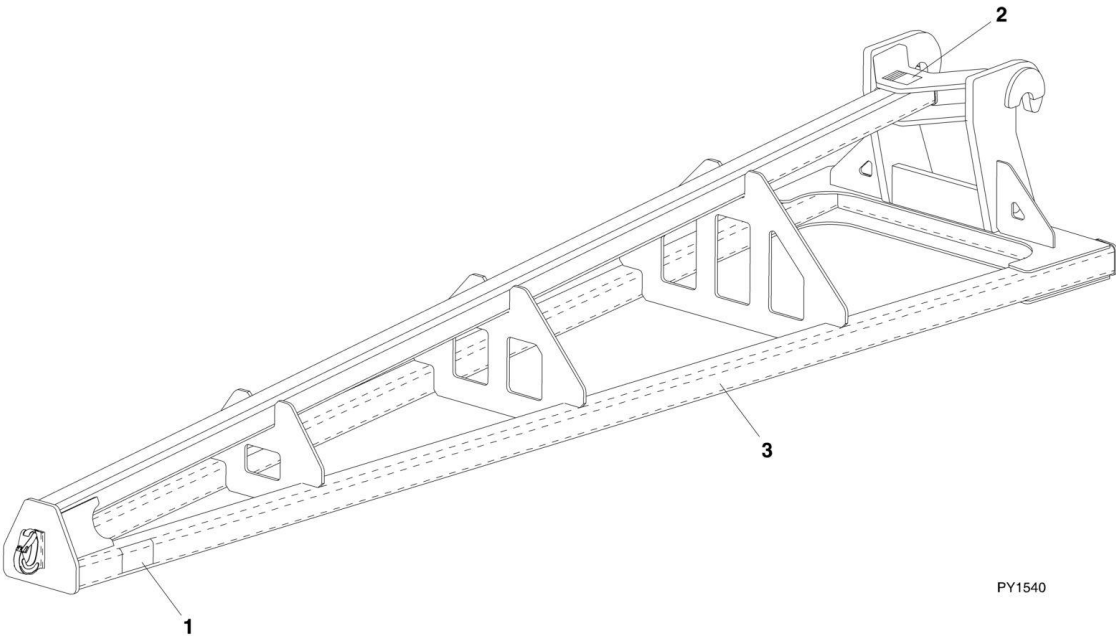
SECTION 3 - ATTACHMENTS

FIGURE 3-12. TRUSS BOOM ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10338932	1	10FT TRUSS BOOM ASSY, (includes all items)	F
1	N.S.S.	1	TRUSS BOOM WELDMENT	
2	8382017	1	PINTLE HOOK (Prior to SN 0160032406)	
3	10705029	4	HEX LOCKNUT, 1/2-20, (torque to 90 lb-ft) (Prior to SN 0160032406)	
4	N.S.S.	1	SN PLATE	
6	4110412	2	LENGTH AND CAPACITY DECAL	
7	4110422	2	SWING LOAD DANGER DECAL	

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FIGURE 3-13. TRUSS BOOM ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



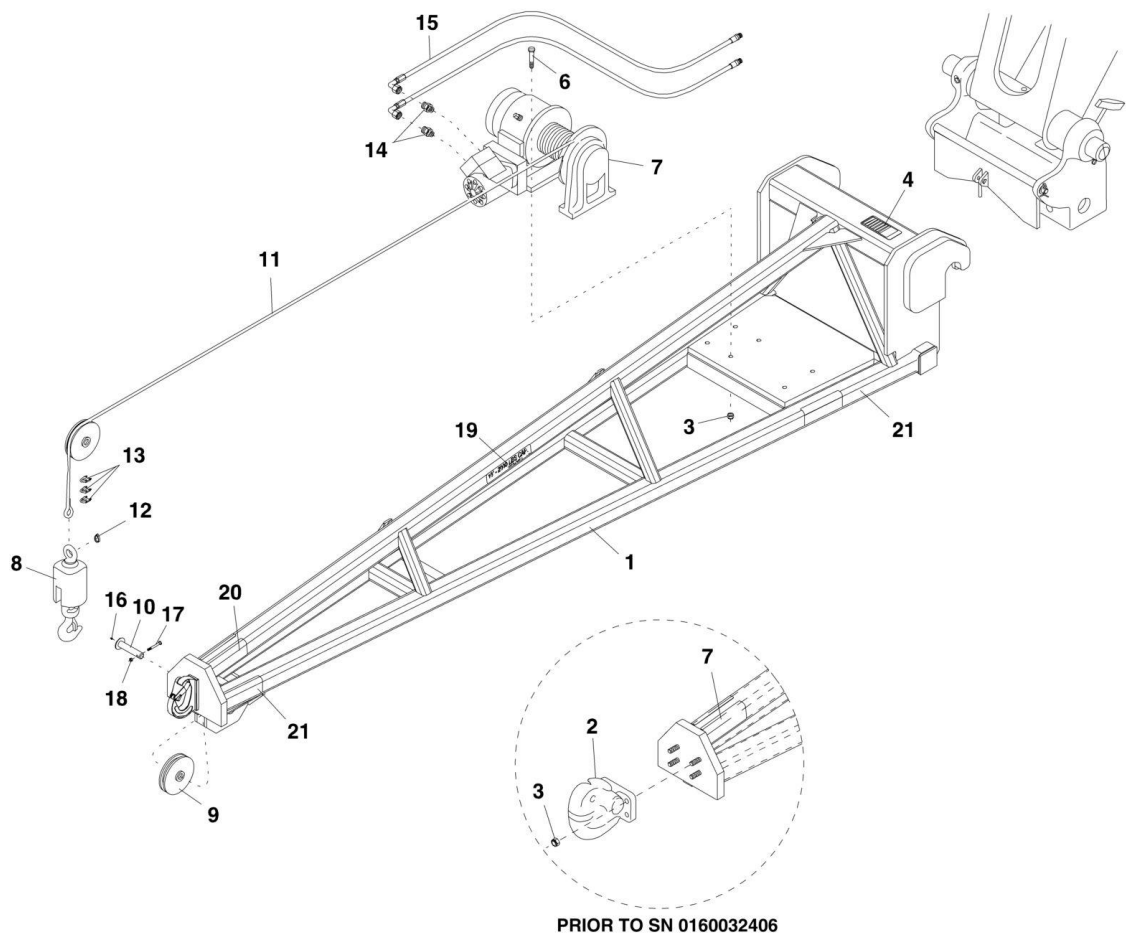
SECTION 3 - ATTACHMENTS

FIGURE 3-13. TRUSS BOOM ASSEMBLY (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001099902	1	12FT TRUSS BOOM, (includes all items)	A
	1001099901	1	15FT TRUSS BOOM, (includes all items)	A
	4110422	2	DANGER SWINGING LOADS DECAL	
	N.S.S.	1	SN PLATE	
	N.S.S.	1	TRUSS BOOM	

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FIGURE 3-14. 12FT TRUSS BOOM WITH WINCH (Prior to SN 0160037900, Excluding 0160037855)



PV1301

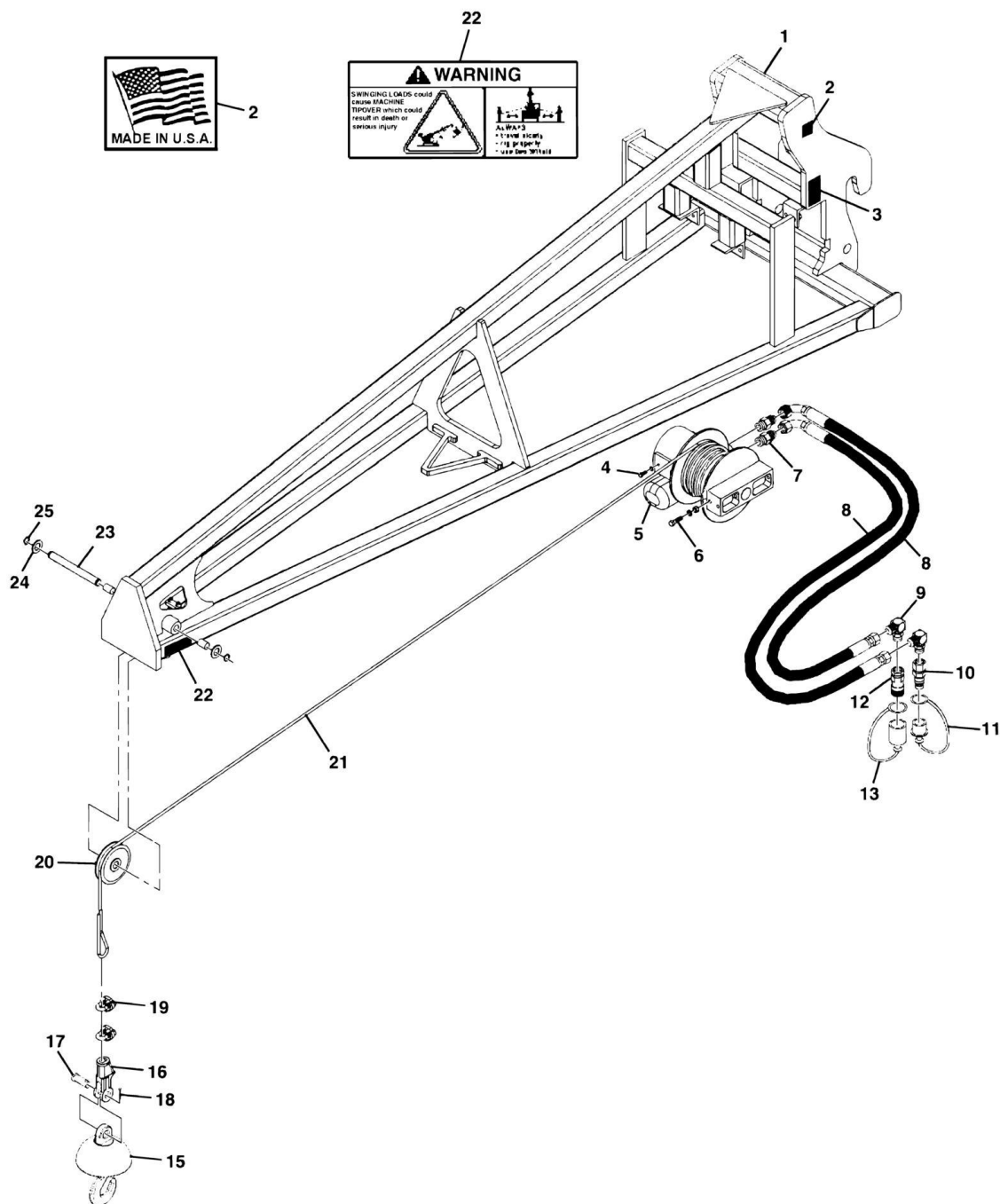
SECTION 3 - ATTACHMENTS

FIGURE 3-14. 12FT TRUSS BOOM WITH WINCH (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10338933	1	10FT TRUSS BOOM ASSEMBLY WITH WINCH, (includes all items)	H
1	N.S.S.	1	TRUSS BOOM WELDMENT	
2	8382017	1	PINTLE HOOK (Prior to SN 0160032406)	
3	10705029	10	HEX LOCKNUT, 1/2-20, (torque to 90 lb-ft) (Prior to SN 0160032406)	
3	10705029	6	HEX LOCKNUT, 1/2-20 (SN 0160032406 to Present)	
4	N.S.S.	1	SN PLATE	
6	10700484	6	HEX HD CAPSCREW, 1/2-20X2-1/4, GR8	
7	10727770	1	TRUSS BOOM WINCH	
7	70021573	1	WINCH MOTOR	
8	10267585	1	HOOK ASSY	
9	10727327	1	CABLE SHEAVE	
10	10125085	1	PIN	
11	1012355	1	WIRE ROPE	
12	10721556	1	THIMBLE, 3/8IN	
13	10721557	3	WIRE CLIP, 3/8	
14	2220374	2	STRAIGHT ADAPTER	
15	10837865	2	HYDRAULIC HOSE, 1/2X60IN	
16	10716611	1	GREASE FITTING, 1/4-28	
17	10700009	1	HEX HD CAPSCREW, 1/4-20X2	
18	10705000	1	HEX NUT, 1/4-20	
19	4110412	2	LENGTH AND CAPACITY DECAL	
20	4110422	2	DANGER SWINGING LOADS DECAL	
21	4110252	4	PINCH POINT DECAL	

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FIGURE 3-15. 12FT TRUSS BOOM WITH WINCH (SN 0160037900 to Present, Including 0160037855)



PAP3440

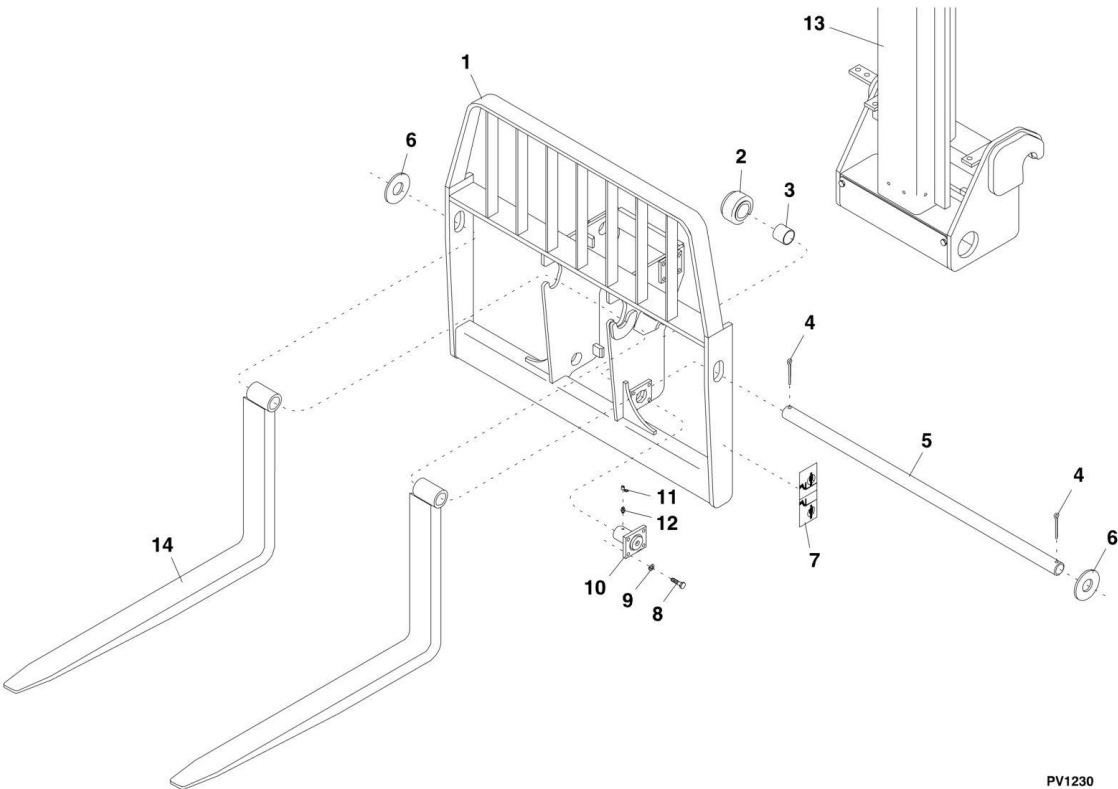
SECTION 3 - ATTACHMENTS

FIGURE 3-15. 12FT TRUSS BOOM WITH WINCH (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099351	1	12FT TRUSS BOOM WITH WINCH, (includes all items)	F
1	N.S.S.	1	TRUSS BOOM FRAME	
2	90554016	1	USA DECAL	
3	N.S.S.	1	SN PLATE	
4	70021349	4	HEX HD CAPSCREW, 3/8X1	
4	90554042	4	LOCK WASHER, 3/8	
5	70021921	1	TRUSS BOOM WINCH MOTOR	
6	N.S.S.	2	HEX HD CAPSCREW, 1/2X1.75	
6	90554020	2	LOCK WASHER, 1/2	
6	90554054	2	HEX NUT, 1/2	
7	70021415	2	CONNECTOR	
8	70021977	2	HOSE ASSY, 3/8X32	
9	N.S.S.	1	ELBOW, 90	
10	7029692	1	MALE QUICK COUPLER	
11	90554062	1	DUST CAP	
12	70021342	1	FEMALE QUICK COUPLER	
13	90554076	1	DUST COVER	
15	70021978	1	BALL SWIVEL WITH SAFETY HOOK	
16	70021979	1	SOCKET ASSY, (includes items 17 & 18)	
17	N.S.S.	1	PIN	
18	N.S.S.	1	COTTER PIN	
19	N.S.S.	2	CLAMP	
20	70021935	1	PULLEY	
21	70022028	1	CABLE	
22	4110422	2	WARNING SWINGING LOADS DECAL	
23	N.S.S.	1	PIN	
24	N.S.S.	2	FLAT WASHER, 1	
25	N.S.S.	2	SNAP RING	

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FIGURE 3-16. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (NON-TILT) (Prior to SN 0160037900, Excluding 0160037855)



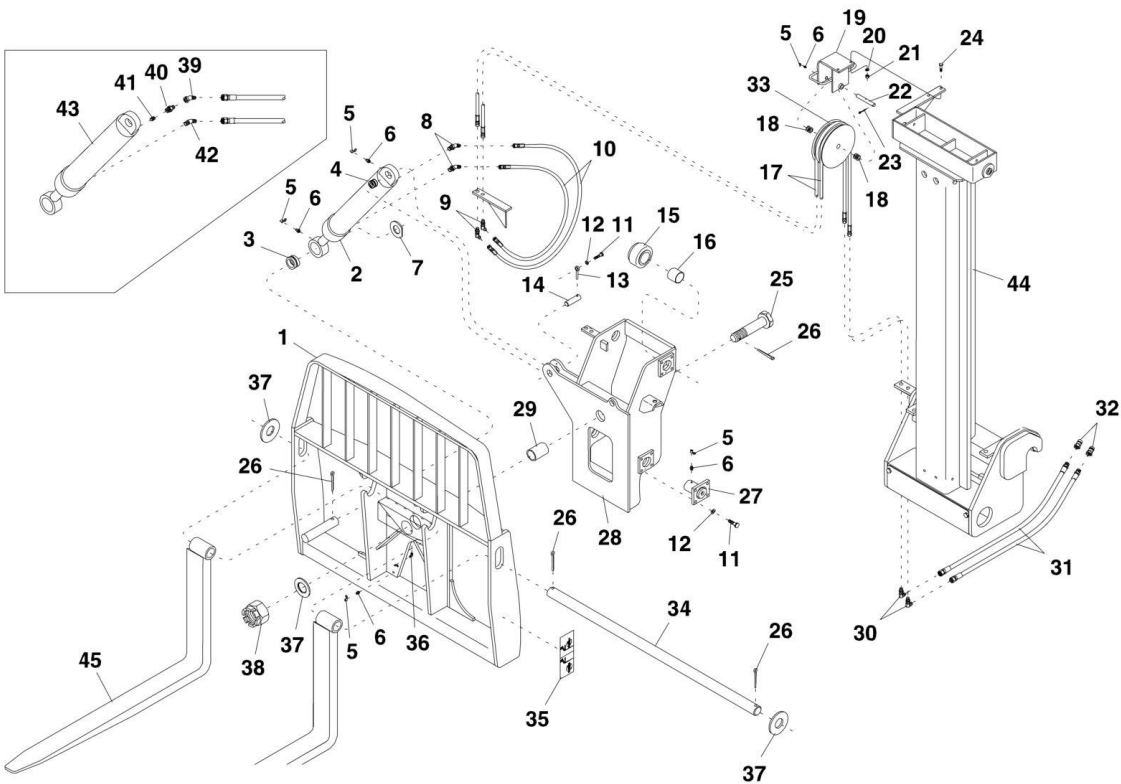
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FIGURE 3-16. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (NON-TILT) (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	48056	1	CARRIAGE ASSY WITH 8FT VERTICAL MAST, (non-tilt), (includes items 1 thru 14)	3
1	N.S.S.	1	TOWER CARRIAGE	
2	10226150	4	TOWER ROLLER	
3	10719110	4	TOWER ROLLER BUSHING	
4	10703906	2	COTTER PIN, 3/8X3	
5	10138064	1	FORK SHAFT	
6	10138066	2	FORK SHAFT WASHER	
7	10224752	1	CARRIAGE SAFETY DECAL	
8	14994040	16	HEX HD CAPSCREW, 1/2X1	
9	11009080	16	LOCKWASHER, 1/2	
10	10226146	4	TOWER ROLLER PIN	
11	10732689	4	GREASE FITTING COVER	
12	11160110	4	GREASE FITTING	
13		Ref	VERTICAL MAST ASSY, (See 8FT VERTICAL MAST ASSEMBLY for Breakdown)	
14		Ref	FORKS, (See FORKS for Breakdown)	

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FIGURE 3-17. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (TILT) (Prior to SN 0160037900, Excluding 0160037855)



PAP14870

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FIGURE 3-17. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (TILT) (Prior to SN 0160037900, Excluding 0160037855)

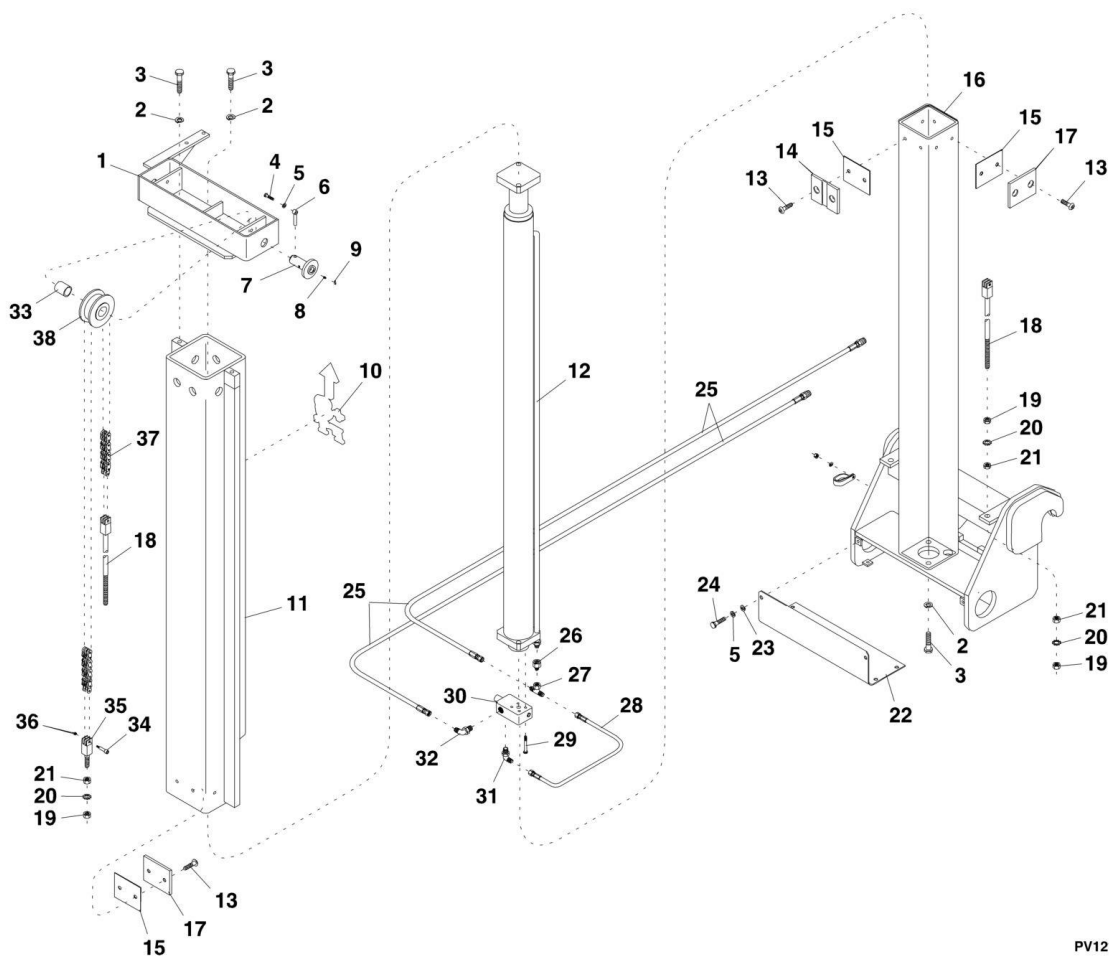
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	48057	1	CARRIAGE ASSY WITH 8FT VERTICAL MAST, (tilt), (includes items 1 thru 38)	4
1	N.S.S.	1	TOWER CARRIAGE	
2		Ref	TILT CARRIAGE CYLINDER, (includes items 3 & 4), (See OPTIONS SECTION for Breakdown)	
3	10116228	1	CYLINDER BUSHING, ROD END	
4	10116227	1	CYLINDER BUSHING, BASE END	
5	10732689	8	GREASE FITTING COVER	
6	11160110	8	GREASE FITTING	
7	10116323	1	SPECIAL WASHER	
8	2220501	2	ELBOW, 45, (includes o-ring)	
9	8770189	2	BULKHEAD ELBOW, 45	
10	10836590	2	HYDRAULIC HOSE ASSY	
11	14994040	16	HEX HD CAPSCREW, 1/2X1	
12	11009080	16	LOCKWASHER, 1/2	
13	10135707	1	LOCK PIN	
14	10138014	1	TILT CYLINDER PIN	
15	10226150	4	TOWER ROLLER	
16	10719110	4	TOWER ROLLER BUSHING	
17	10837535	2	HYDRAULIC HOSE ASSY	
18	11016150	6	FLAT WASHER, 5/8	
19	10216114	1	SHEAVE SUPPORT	
20	11009060	2	LOCKWASHER, 3/8	
21	11261060	2	HEX NUT, 3/8-16	
22	10116117	1	SHEAVE SHAFT	
23	11133050	1	COTTER PIN, 1/8X1-1/4	
24	11143040	2	HEX HD CAPSCREW, 3/8-16X1	
25	10138065	1	CARRIAGE PIVOT BOLT	
26	10703906	4	COTTER PIN, 3/8X3	
27	10226146	4	TOWER ROLLER PIN	
28	10438873	1	INNER CARRIAGE	
29	10138013	1	PIVOT SLEEVE	
30	2230043	2	BULKHEAD ELBOW, 90	
31	10837864	2	HYDRAULIC HOSE ASSY	
32	10866136	2	MALE QUICK COUPLER, (includes o-ring)	
32	10730518	2	DUST CAP	
33	10216115	1	TOWER SHEAVE	
34	10138064	1	FORK SHAFT	
35	10224752	1	CARRIAGE SAFETY DECAL	
36	11160140	1	GREASE FITTING, 90	
37	10138066	4	PIVOT WASHER	
38	10837794	1	HEX CASTLE NUT, 2-12	
39	2220657	1	SWIVEL ELBOW, 45	
40	10135420	1	SPECIAL ADAPTER	
41	10138114	1	ORIFICE	
42	10718943	1	PIPE ELBOW, 45	
43	10266336	1	CYLINDER REPLACEMENT KIT, (includes items 2, 3, 4 & 9)	
44		Ref	VERTICAL MAST ASSY, (See 8FT VERTICAL MAST ASSEMBLY for Breakdown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45		Ref	FORK, (See FORKS for Breakdown)	

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FIGURE 3-18. 8FT VERTICAL MAST ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1210

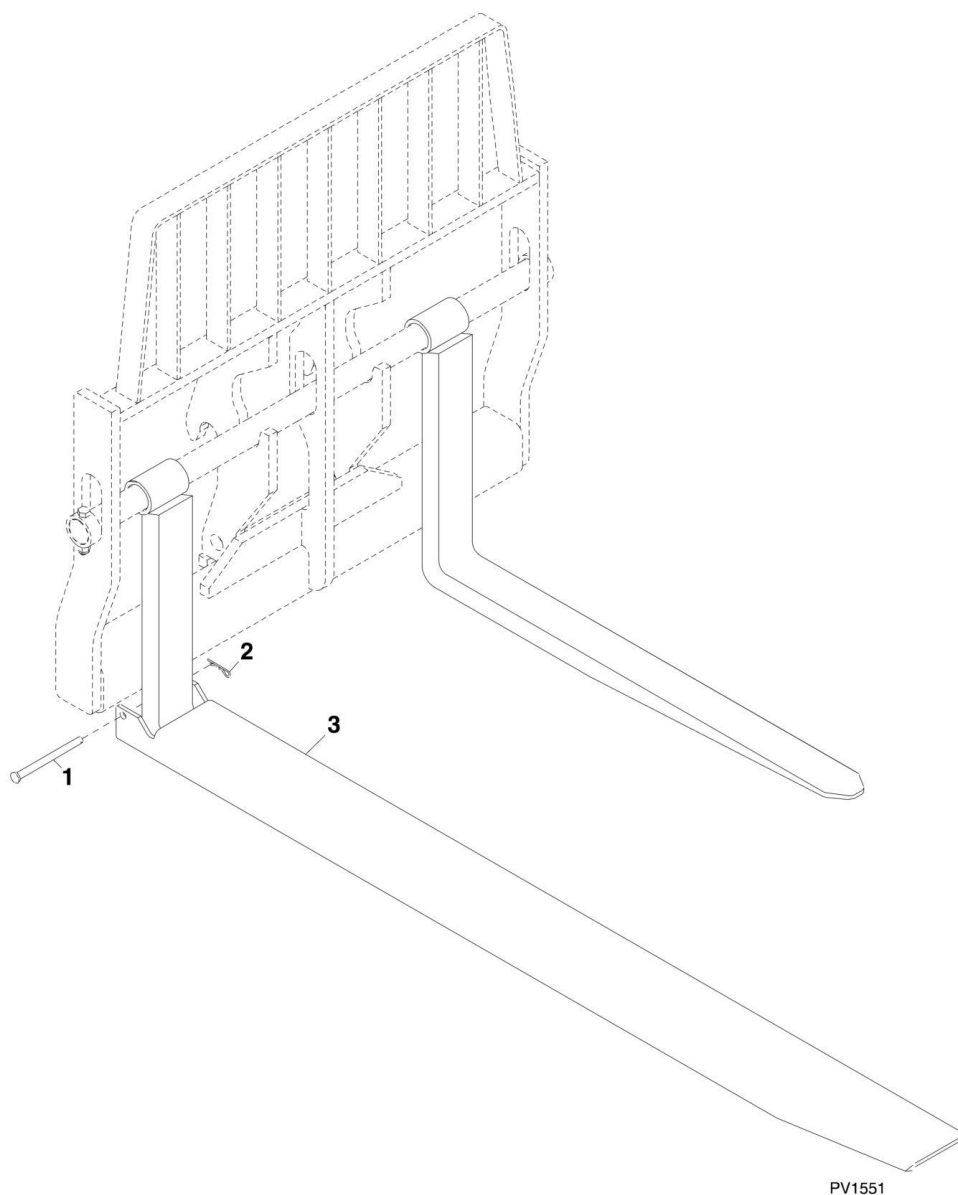
SECTION 3 - ATTACHMENTS

FIGURE 3-18. 8FT VERTICAL MAST ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	48060	1	VERTICAL MAST ASSY, (includes all items)	3
1	10326137	1	PULLEY HOUSING	
2	11009100	6	LOCKWASHER, 5/8	
3	11894070	6	HEX HD CAPSCREW, 5/8-11X1-3/4	
4	10700203	2	HEX HD CAPSCREW, 3/8-16X7/8	
5	11009060	8	LOCKWASHER, 3/8	
6	10126161	2	LOCK PIN	
7	10126143	2	CHAIN PULLEY WELDMENT PIN	
8	11160110	2	GREASE FITTING	
9	10732689	2	GREASE FITTING COVER	
10	10239382	1	8FT TOWER DECAL	
11	10438860	1	OUTER TUBE WELDMENT	
12		Ref	TOWER CYLINDER, (See OPTIONS SECTION for Breakdown)	
13	10703115	16	FLAT SOCKET HD CAPSCREW, 1/2-13X1	
14	10728504	1	GROOVED TOWER SLIDE PAD	
15	101261521	AR	TOWER SHIM, 11 GA	
15	101261522	AR	TOWER SHIM, 14 GA	
15	101261523	AR	TOWER SHIM, 20 GA	
16	10438852	1	UPRIGHT ASSEMBLY FRAME	
17	10728503	7	TOWER SLIDE PAD	
18	10226141	2	CHAIN ANCHOR	
19	11486100	6	HEX JAM NUT, 5/8-18	
20	10701363	6	STAR WASHER, 5/8	
21	11129100	6	HEX NUT, 5/8-18	
22	10239047	1	COVER PLATE	
23	11016130	6	FLAT WASHER, 3/8	
24	11143030	6	HEX HD CAPSCREW, 3/8-16X1	
25	10837866	2	HYDRAULIC HOSE ASSY	
26	2220619	1	SWIVEL REDUCER	
27	2220579	1	BRANCH SWIVEL TEE	
28	10721617	1	HYDRAULIC HOSE ASSY	
29	11047270	4	HEX HD CAPSCREW, 5/16-18X2	
30	10726324	1	COUNTERBALANCE VALVE	
31	2220628	1	ELBOW, 90	
32	2220775	1	ELBOW, 90	
33	10720365	2	BUSHING	
34	10727971	4	SHOULDER BOLT, 5/16-20X1	
35	10215055	2	ANCHOR CHAIN	
36	11170040	4	HEX LOCKNUT, 1/4-20	
37	10138898	2	8FT TOWER LIFT CHAIN	
38	10214979	2	PULLEY	

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FIGURE 3-19. FORKS



NOTE:
FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS.
FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.
PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.

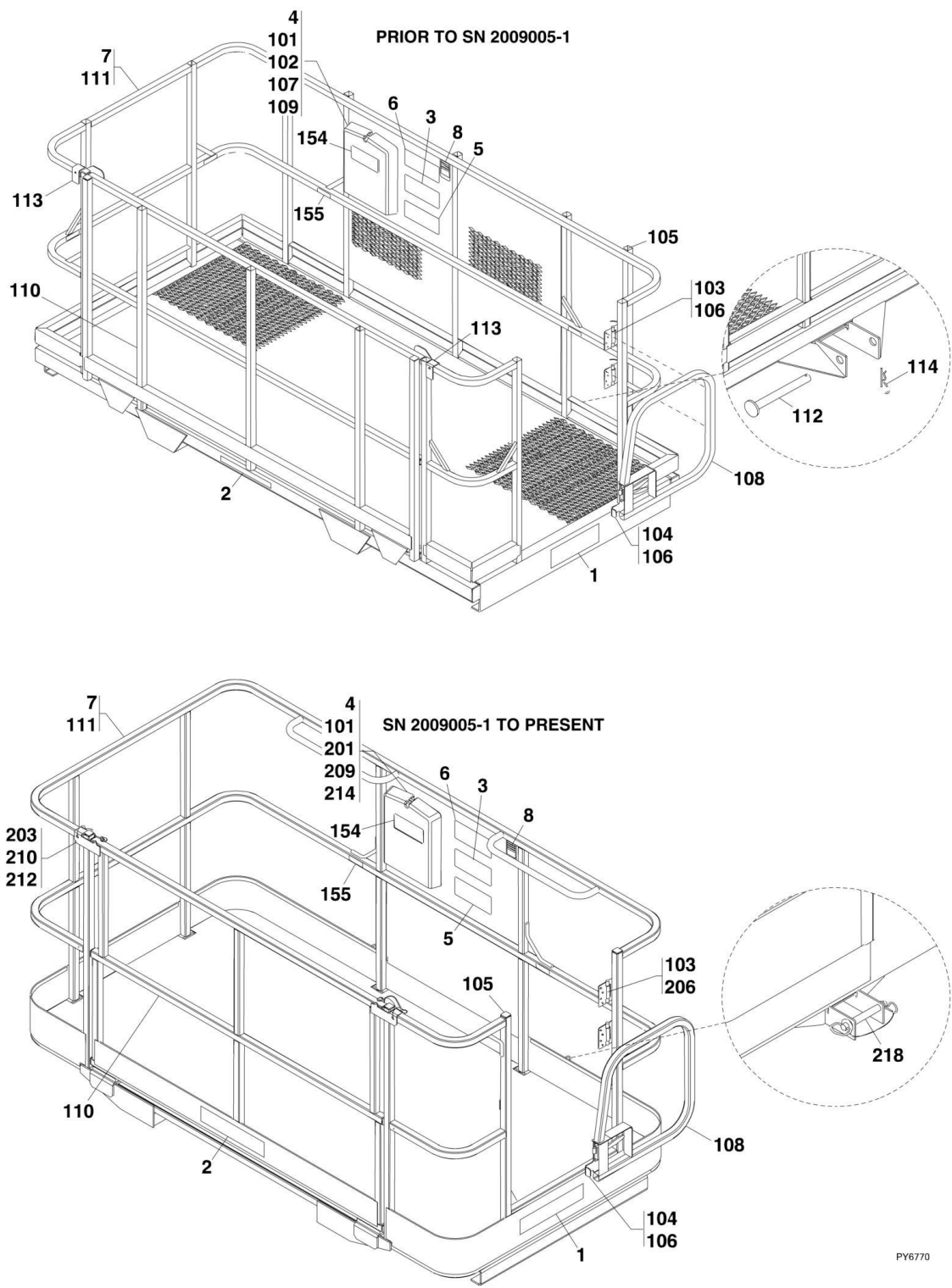
SECTION 3 - ATTACHMENTS

FIGURE 3-19. FORKS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10238118	2	48IN CUBING FORK, 2X2, 4,000LB (SN 0160009654 through 0160035580, Including 0160008714)	E
	1001099845	2	48IN CUBING FORK, 2X2, 4,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)	B
	2340037	2	48IN CUBING FORK, 2X2, 3,880LB (SN 0160037900 to Present, Including 0160037855)	A
	10239894	NLA	48IN PALLET FORK, 4X2.25, 10,000LB , (no longer available, use a set of 1001099847 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)	B
	1001099847	2	48IN PALLET FORK, 4X2.25, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)	A
	2340045	2	48IN PALLET FORK, 4X2.36, 10,950LB (SN 0160037900 to Present, Including 0160037855)	A
	10238569	NLA	48IN PALLET FORK, 5X2, 10,000LB , (no longer available, use a set of 1001099846 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)	C
	1001099846	2	48IN PALLET FORK, 5X2, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)	A
	2340038	2	48IN PALLET FORK, 5X2.36, 13,700LB (SN 0160037900 to Present, Including 0160037855)	A
	10238570	NLA	60IN PALLET FORK, 5X2, 10,000LB , (no longer available, use a set of 1001099848 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)	B
	1001099848	2	60IN PALLET FORK, 5X2, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)	A
	10239095	NLA	60IN PALLET FORK, 7X1-3/4, 10,000LB , (no longer available, use a set of 1001099849 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)	B
	1001099849	2	60IN PALLET FORK, 7X1-3/4, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)	A
	10239969	2	60IN LUMBER FORK, 1-3/4X7 , (use with swing carriage only) (Prior to SN 0160037900, Excluding 0160037855)	AA
	10238025	NLA	48IN PALLET FORK, 2X4, 8,000LB , (use with tower only), (no longer available, use a set of 1001099850 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)	C
	1001099850	2	48IN PALLET FORK, 2X4, 8,000LB , (use with tower only) (SN 0160035581 through 0160037899, Excluding 0160037855)	A
	10239970	2	60IN PALLET FORK, 2X5 , (use with swing carriage only) (Prior to SN 0160037900, Excluding 0160037855)	AA
	2340046	2	60IN DUAL TAPER FORK, 1-3/4X7, 10,800LB (SN 0160037900 to Present, Including 0160037855)	A
	2340039	2	60IN DUAL TAPER FORK, 2-23/64X6, 16,300LB (SN 0160037900 to Present, Including 0160037855)	A
	1001092391	2	72IN DUAL TAPER FORK, 2X6, 11,300LB (SN 0160037900 to Present, Including 0160037855)	A
	1001137512	2	90IN FORK EXTENSION, (includes items 1 thru 3)	D
1	70024306	1	PIN	
2	70024307	1	CLIP	
3	N.S.S.	1	WELDMENT	

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FIGURE 3-20. FORK MOUNTED PLATFORM



PY6770

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FIGURE 3-20. FORK MOUNTED PLATFORM

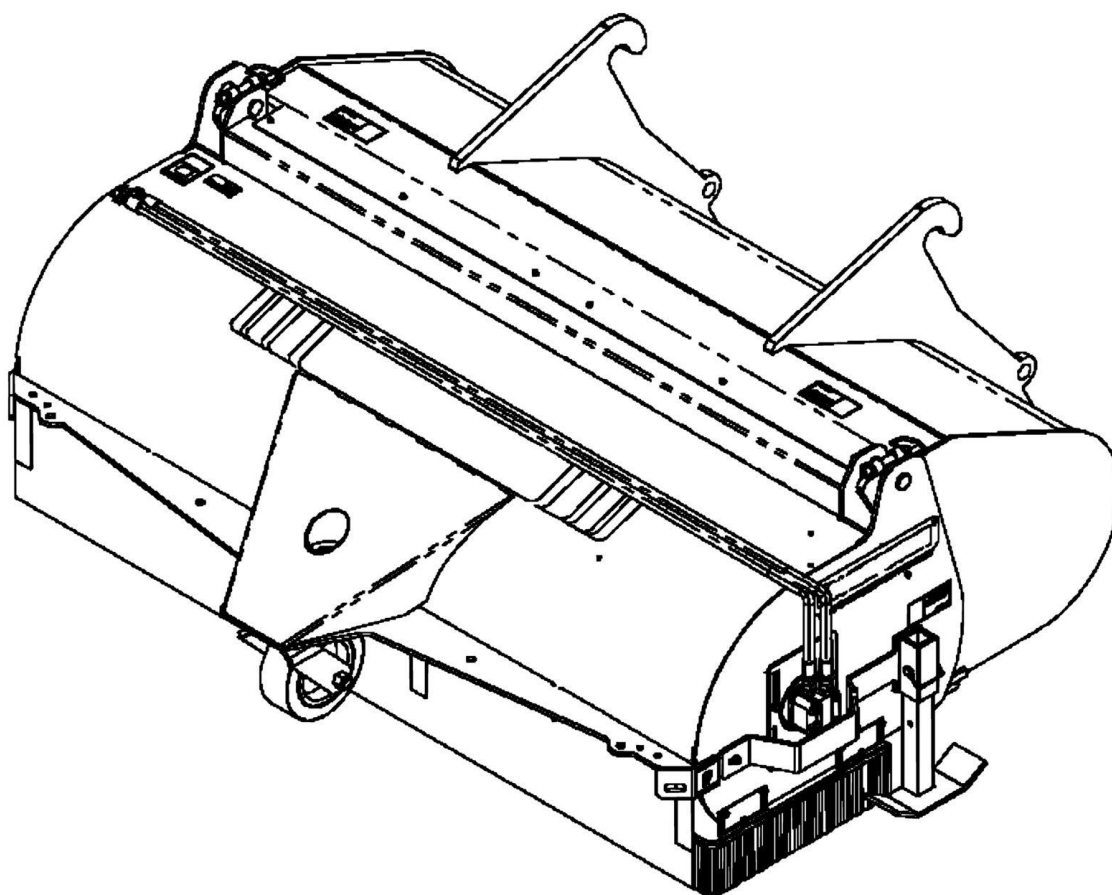
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001092280	NLA	FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ASME), (no longer available, order 1001103637 for replacement or items 1 thru 8 for service)	E
	1001103637	1	FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ASME), (includes items 1 thru 8)	D
	1001096306	NLA	FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ISO), (no longer available, order 1001103730 for replacement or items 1 thru 8 for service)	C
	1001103730	1	FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ISO), (includes items 1 thru 8)	D
	1001097072	NLA	FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ASME - FRENCH), (no longer available, order 1001103736 for replacement or items 1 thru 8 for service)	C
	1001103736	1	FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ASME - FRENCH), (includes 1 thru 8)	D
1	1702773	2	JLG DECAL	
2	1704885	1	WEBSITE DECAL	
3	1706892	1	PLATFORM WARNING DECAL, (ASME)	
3	1001096025	1	PLATFORM WARNING DECAL, (ISO)	
3	1001096024	1	PLATFORM WARNING DECAL, (ASME - FRENCH)	
4	31200160	1	OPERATION AND SAFETY MANUAL, (ASME)	
4	31200387	1	OPERATION AND SAFETY MANUAL, (ISO - SPANISH)	
4	31200388	1	OPERATION AND SAFETY MANUAL, (ISO - PORTUGUESE)	
4	31200386	1	OPERATION AND SAFETY MANUAL, (ASME - FRENCH)	
5	1001092481	1	WARNING DECAL, (ASME)	
5	1001096021	1	WARNING DECAL, (ISO)	
5	1001096019	1	WARNING DECAL, (ASME - FRENCH)	
6	1001092482	1	CAPACITY DECAL, (ASME)	
6	1001096023	1	CAPACITY DECAL, (ISO)	
6	1001096020	1	CAPACITY DECAL, (ASME - FRENCH)	
7	N.S.S.	1	FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (includes items 101 thru 114)	B
7	N.S.S.	1	FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (includes items 101, 103 thru 106, 108, 110, 111, 154, 155 & 201 thru 218)	J
8	N.S.S.	1	SN PLATE	
101	0860520	1	MANUAL STORAGE BOX	
102	2080044	4	RIVNUT FASTENER, 1/4-20	
103	2600281	2	HINGE	
104	2940074	1	LATCH	
105	3520198	21	PLUG, (Prior to SN 2009005-1)	
105	3520072	10	PLUG, (SN 2009005-1 to Present)	
106	3820020	20	POP RIVET, (Prior to SN 2009005-1)	
106	3820020	4	POP RIVET, (SN 2009005-1 to Present)	
107	4751400	4	WASHER, 1/4	
108	4846452	1	GATE WELDMENT	
109	80263012	4	SCREW WHIZ-LOCK, 1/4-20X1/2	
110	1001093140	1	GATE WELDMENT, (Prior to SN 2009005-1)	
110	1001095810	1	GATE WELDMENT, (SN 2009005-1 to Present)	
111	N.S.S.	1	PLATFORM WELDMENT	
112	1001093171	2	PIN	
113	1001097168	2	SAFETY SNAP PIN WITH LANYARD	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
114	1001098582	2	LYNCH PIN 3/16 WITH LANYARD	
154	1701509	1	MANUAL DECAL	
155	1704277	8	LANYARD ATTACH DECAL, (Prior to SN 2009005-1)	
155	1704277	3	LANYARD ATTACH DECAL, (SN 2009005-1 to Present)	
201	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8	
203	1060379	2	6IN LANYARD CABLE	
206	2080040	16	FASTENER	
209	3311405	4	HEX NUT, 1/4-20	
210	3421453	2	PIN	
212	3760170	4	RING	
214	4711400	8	WASHER, 1/4	
218	1001102813	2	HITCH PIN	

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FIGURE 3-21. SWEEPER ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



PV1740

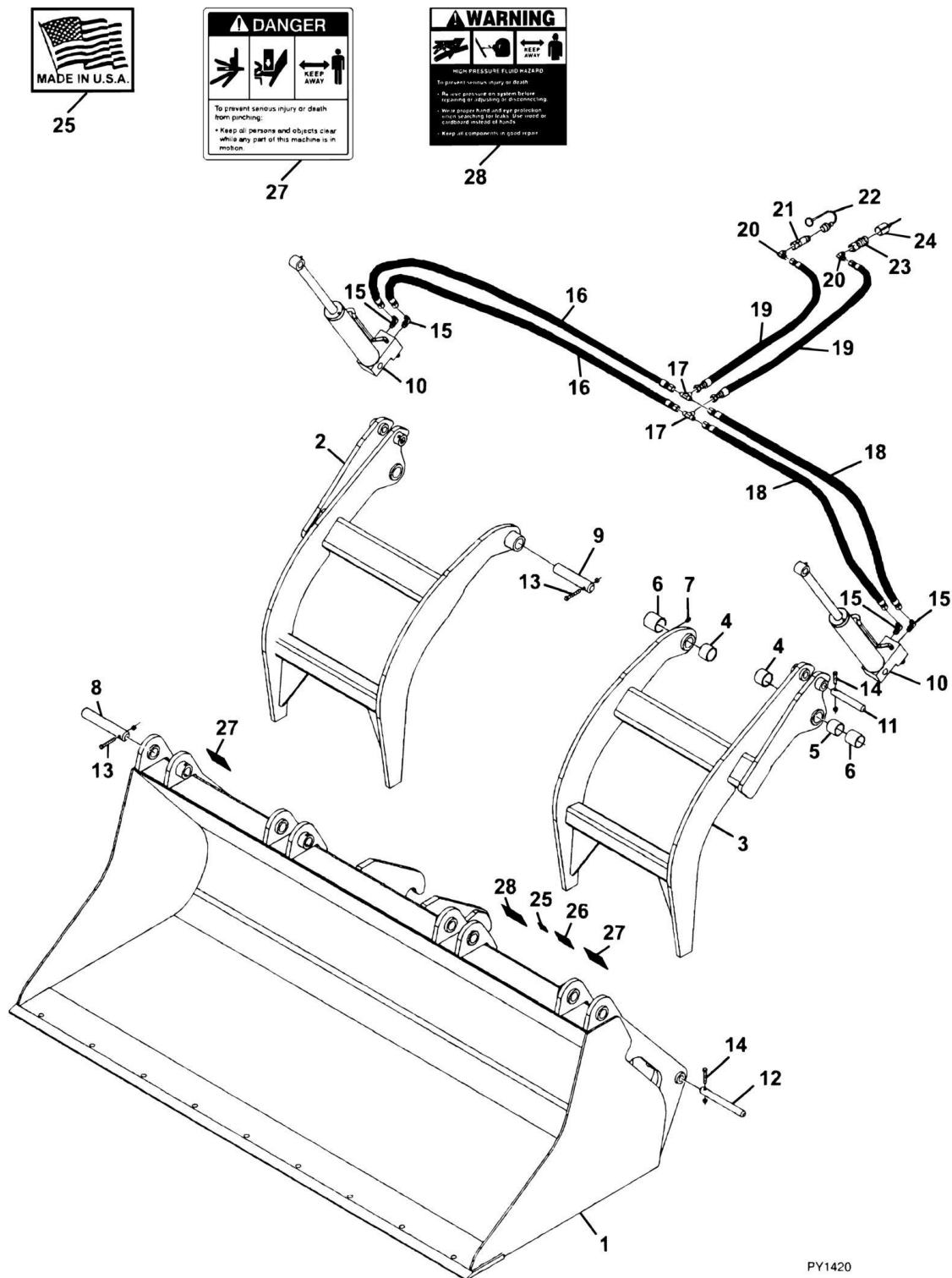
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FIGURE 3-21. SWEEPER ASSEMBLY (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274719	1	SWEEPER ASSY	C
	10266970	1	SWEEPER WITH BUCKET	

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FIGURE 3-22. GRAPPLE BUCKET (SN 0160037900 to Present, Including 0160037855)



PY1420

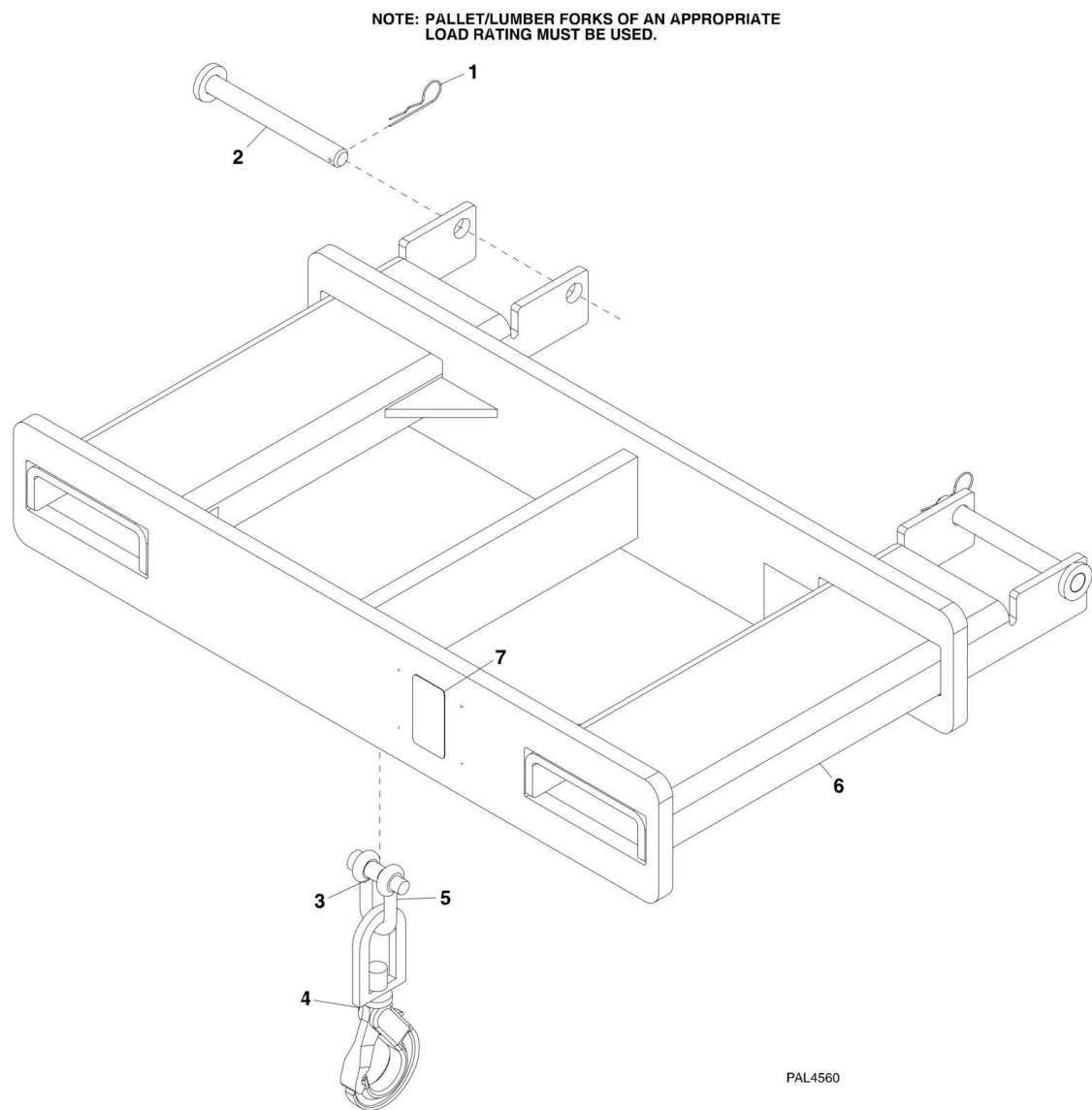
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FIGURE 3-22. GRAPPLE BUCKET (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0930020	1	GRAPPLE BUCKET, (includes all items)	G
1	N.S.S.	1	BUCKET	
1	70021387	4	HOSE CLAMP	
2	70021391	1	RIGHT GRAPPLE HOOK	
3	70021392	1	LEFT GRAPPLE HOOK	
4	70021358	4	BUSHING	
5	70021359	2	SPACER	
6	70021360	4	BUSHING	
7	7029714	4	GREASE FITTING	
8	70021361	2	OUTER PIVOT PIN	
9	70021362	2	INNER PIVOT PIN	
10		Ref	GRAPPLE BUCKET CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11	70021364	2	PIN	
12	70021365	2	PIN	
13	70021366	4	HEX HD CAPSCREW, 3/8X2.75	
13	70021367	4	LOCK NUT, 3/8	
14	70021399	4	HEX HD CAPSCREW, 3/8X2.25	
14	70021367	4	LOCK NUT, 3/8	
15	90554065	4	ELBOW, 90	
16	70021980	2	HOSE ASSY, 3/8X73IN	
17	70020562	2	TEE FITTING	
18	70021981	2	HOSE ASSY, 3/8X46IN	
19	70021982	2	HOSE ASSY, 3/8X34IN	
20	70022527	2	ELBOW, 90	
21	7029692	1	MALE QUICK COUPLER	
22	90554062	1	DUST COVER	
23	70021342	1	FEMALE QUICK COUPLER	
24	90554076	1	DUST COVER	
25	90554016	1	USA DECAL	
26	N.S.S.	1	SN PLATE	
27	90554017	2	DANGER PINCH POINT DECAL	
28	90554018	1	HIGH PRESSURE WARNING DECAL	

SECTION 3 - ATTACHMENTS

FIGURE 3-23. FORK MOUNTED LIFTING HOOK (SN 0160037900 to Present, Including 0160037855)



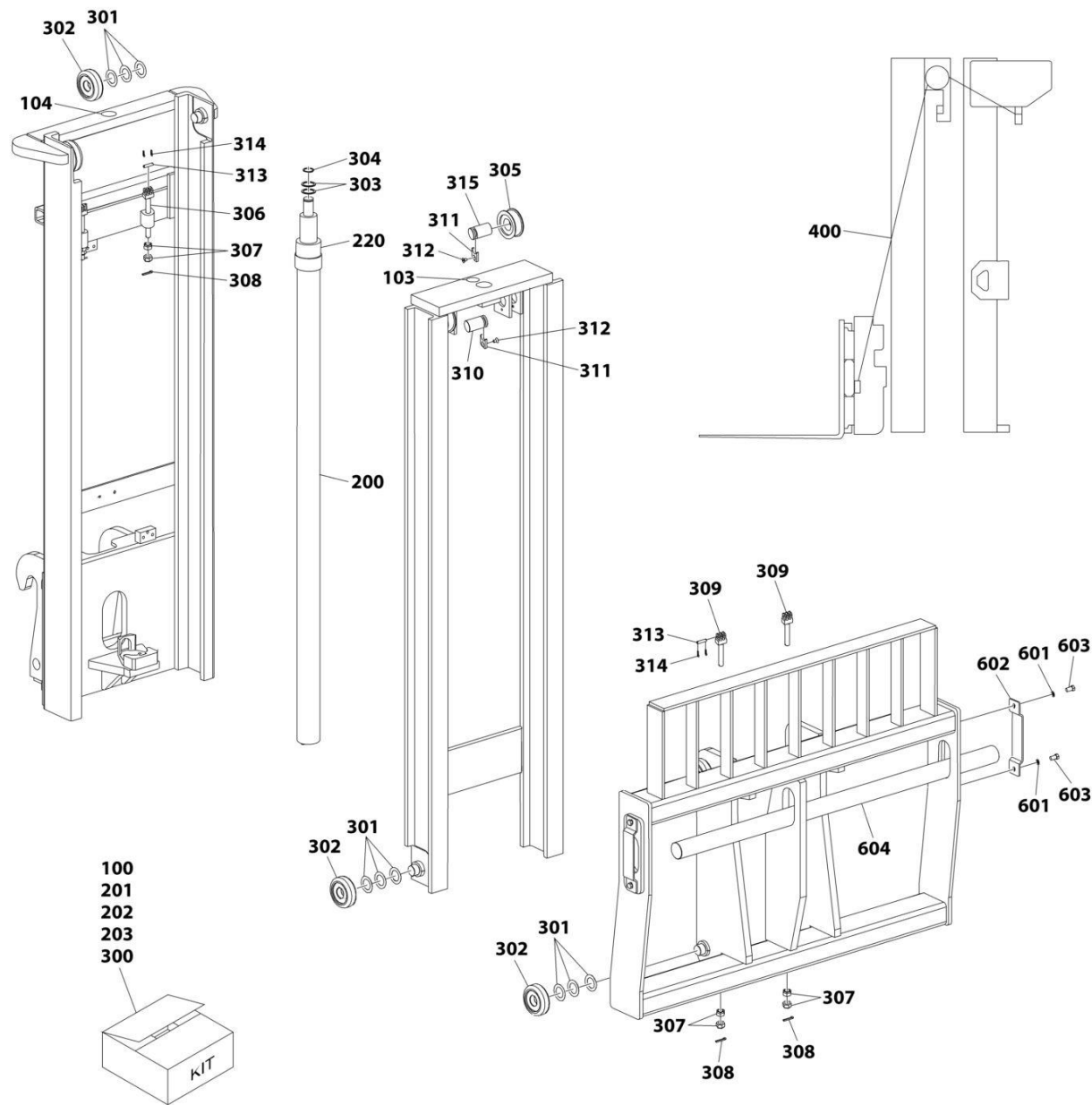
SECTION 3 - ATTACHMENTS

FIGURE 3-23. FORK MOUNTED LIFTING HOOK (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91565094	1	FORK MOUNTED LIFTING HOOK, (includes all items)	F
1	7029520	2	HAIRPIN CLIP	
2	1001093171	2	PIN	
3	70020555	1	SPRING BUSHING	
4	90554080	1	SLING HOOK	
5	7029521	1	CHAIN SHACKLE, 12,000LB	
6	N.S.S.	1	LIFTING HOOK	
7	N.S.S.	1	SN PLATE	

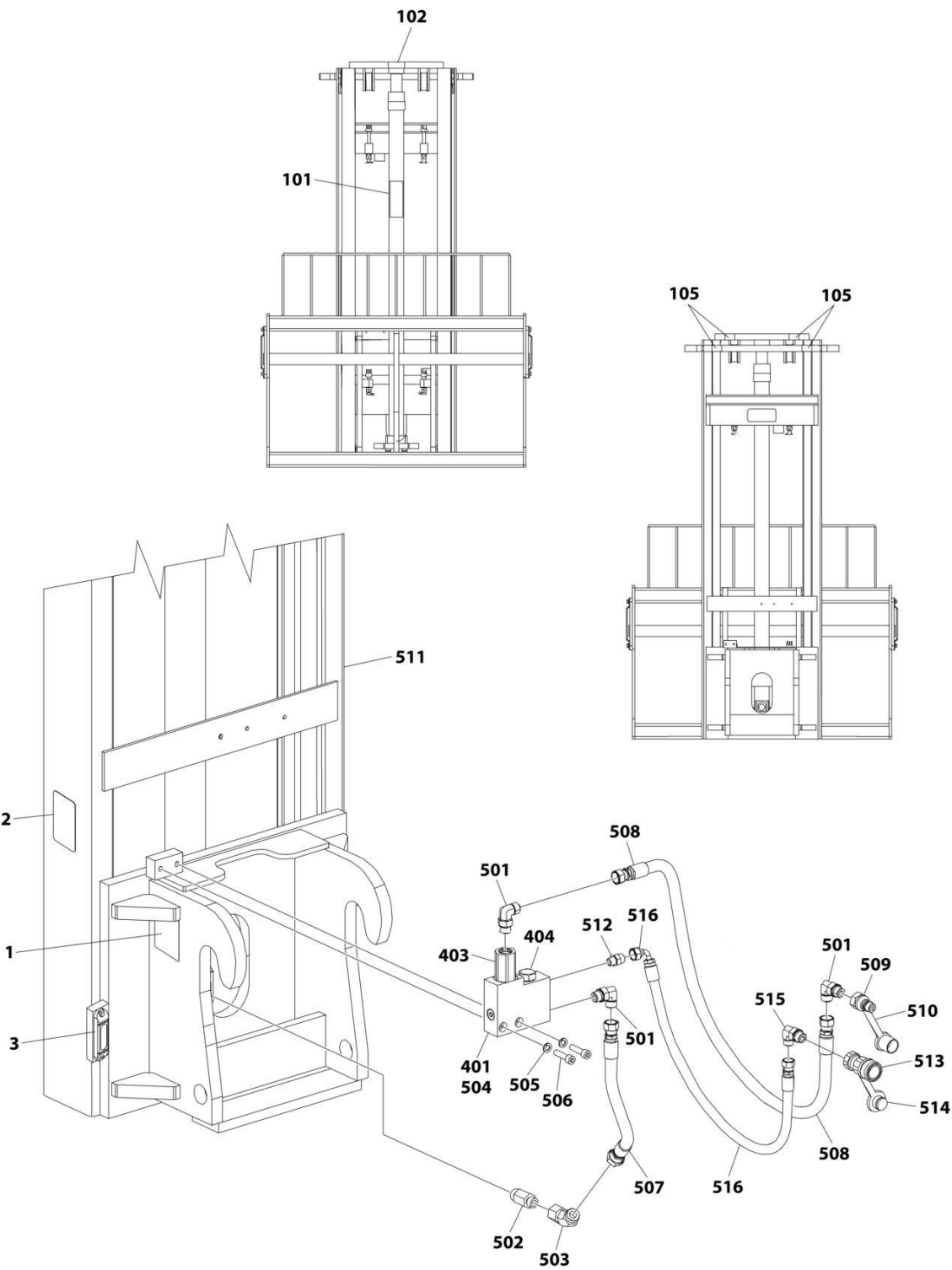
SECTION 3 - ATTACHMENTS

FIGURE 3-24. MAST ASSEMBLY - 8FT (4500LBS) (WITHOUT SIDE TILT) (SN 0160037900 to Present, Including 0160037855)



ART_1001108668_1OF2

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ART_1001108668_2OF2

SECTION 3 - ATTACHMENTS

FIGURE 3-24. MAST ASSEMBLY - 8FT (4500LBS) (WITHOUT SIDE TILT) (SN 0160037900 to Present, Including 0160037855)

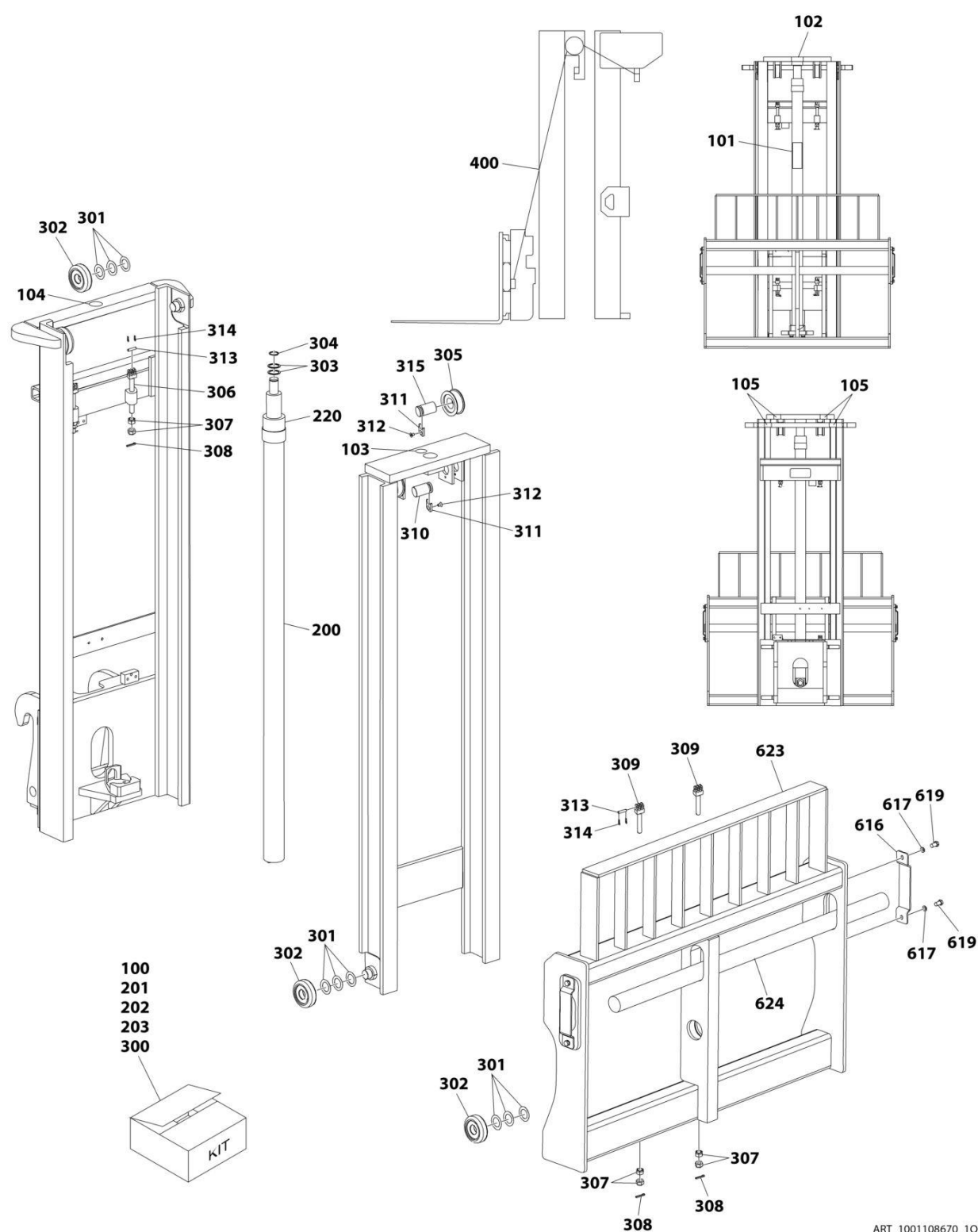
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108668	Ref	MAST ASSEMBLY - 8FT	H
1	See Note	NSS	Nameplate, Serial Number (Note: Not Available for Purchase)	
2	1001111190	2	Decal - Warning	
3	1001227670	1	RFID Tag	
100	70023925	1	Decal Kit (includes items 1, Warning, No Step & Hose Routing Decals)	
101	See Note	NSS	Decal, Warning (Use Item 100)	
102	See Note	NSS	Decal, Warning (Use Item 100)	
103	See Note	NSS	Decal, No Step (Use Item 100)	
104	See Note	NSS	Decal, No Step (Use Item 100)	
105	See Note	NSS	Decal, Hands Off (Use Item 100)	
200	70023008	1	Cylinder Assembly - Lift (includes items 201-203 & 220. No Other Service Parts Available)	
201	70023005	1	Seal Kit - 70023008 Cylinder (includes Seals & Seal Retaining Hardware)	
202	70023006	1	Check Valve Kit (includes Mounting O-Rings & Hardware)	
203	70023007	1	Shim Kit (Includes items 303)	
220	70023004	1	Head/Retainer	
300	70023015	1	Mast Kit (includes items 100 & 301-315)	
301	70023014	24	Shim	
302	70022987	8	Bearing, Ball	
303	See Note	NLA	Shim (Note: Use item 203)	
304	70023016	1	Ring, Retaining	
305	70022969	2	Sheave	
306	70022960	2	Anchor, Chain	
307	70022957	8	Nut 5/8	
308	70022993	4	Pin, Cotter	
309	70022995	2	Anchor, Chain	
310	70022984	1	Shaft, Sheave	
311	70022970	2	Bar	
312	70023003	2	Screw	
313	70022994	4	Pin	
314	70022992	8	Pin, Cotter	
315	70022985	1	Shaft, Sheave	
400	70023009	2	Chain, Hoist	
401	70022932	1	Valve Assembly - Lowering Control	
403	70022931	1	Cartridge, Valve	
404	70023010	1	Cartridge, Valve	
501	70022934	3	Fitting, 90	
502	70022936	1	Fitting, Flow Limiter	
503	70022937	1	Fitting, 45	
504	70022932	1	Valve Assembly - Lowering Control (Note: Duplicate of Item 401 - Only Qty 1 Used)	
505	70022949	2	Washer, M10	
506	70022950	2	Bolt M10	
507	70022942	1	Hose	
508	70022952	1	Hose	
509	91403414	1	Fitting, Quick Disconnect Coupling (Male)	
510	91043126	1	Cap, Dust	
511	70023015	1	Mast Kit (Note: Duplicate of Item 300 - Only Qty 1 Used)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
512	70022939	1	Fitting, Straight	
513	91403413	1	Fitting, Quick Disconnect Coupling (Female)	
514	91043125	1	Cap, Dust	
515	70022935	1	Fitting, 90	
516	70022946	1	Hose	
601	70022949	4	Washer M10	
602	70022980	2	Keeper, Pin	
603	70022998	4	Bolt M10 x 20	
604	70022990	1	Pin, Fork	

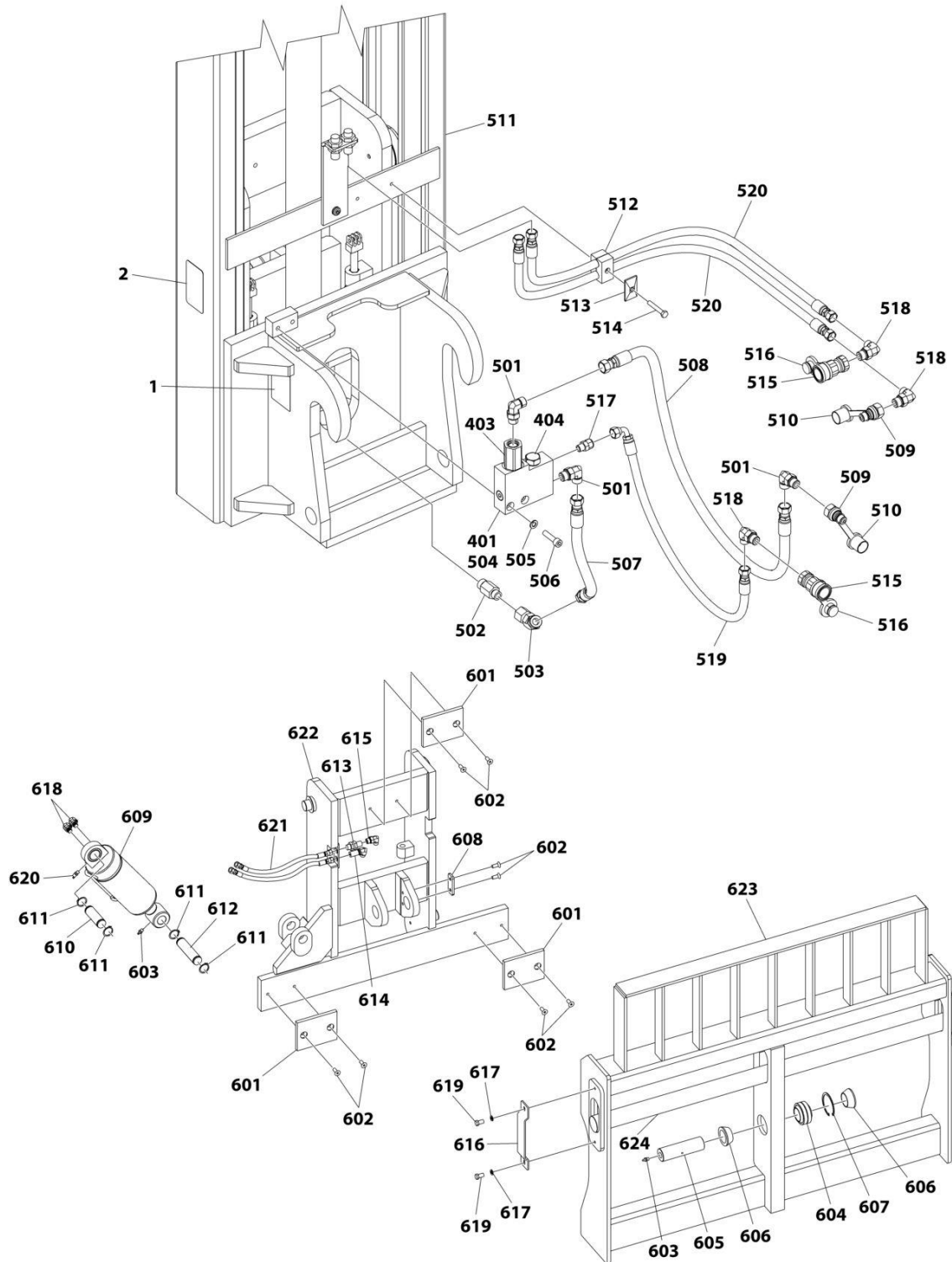
SECTION 3 - ATTACHMENTS

FIGURE 3-25. MAST ASSEMBLY - 8FT (4500LBS) (WITH SIDE TILT) (SN 0160037900 to Present, Including 0160037855)



ART_1001108670_10F2

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FIGURE 3-25. MAST ASSEMBLY - 8FT (4500LBS) (WITH SIDE TILT) (SN 0160037900 to Present, Including 0160037855)

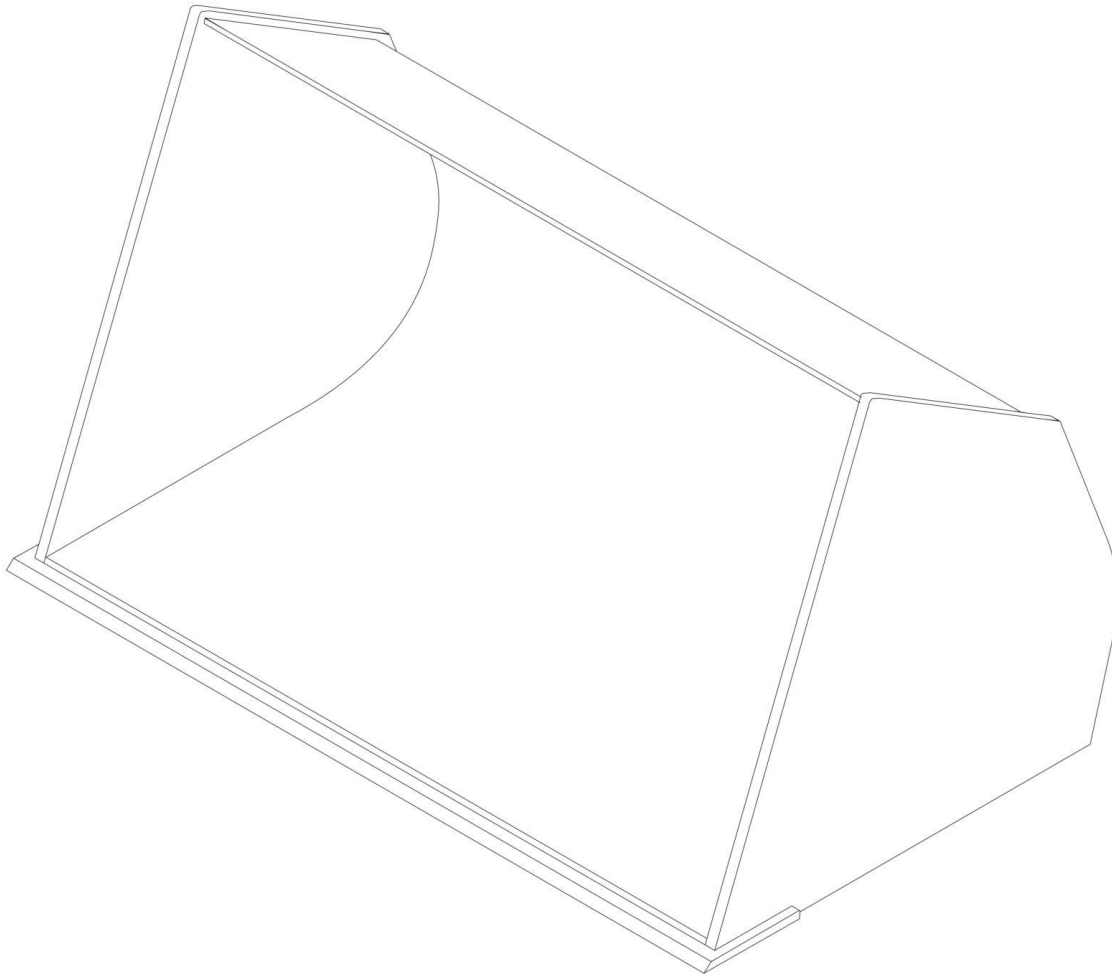
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108670	Ref	MAST ASSEMBLY - 8FT WITH SIDE TILT	E
1	1001111190	2	Decal - Warning	
2	See Note	NSS	Nameplate, Serial Number (Note: Not Available for Purchase)	
100	70023925	1	Decal Kit (includes items 1, Warning, No Step & Hose Routing Decals)	
101	See Note	NSS	Decal, Warning (Use Item 100)	
102	See Note	NSS	Decal, Warning (Use Item 100)	
103	See Note	NSS	Decal, No Step (Use Item 100)	
104	See Note	NSS	Decal, No Step (Use Item 100)	
105	See Note	NSS	Decal, Hands Off (Use Item 100)	
200	70023008	1	Cylinder Assembly - Lift (includes items 201-203 & 220. No Other Service Parts Available)	
201	70023005	1	Seal Kit - 70023008 Cylinder (includes Seals & Seal Retaining Hardware)	
202	70023006	1	Check Valve Kit (includes Mounting O-Rings & Hardware)	
203	70023007	1	Shim Kit (Includes items 303)	
220	70023004	1	Head/Retainer	
300	70023015	1	Mast Kit (includes items 100 & 301-315)	
301	70023014	24	Shim	
302	70022987	8	Bearing, Ball	
303	See Note	NLA	Shim (Note: Use item 203)	
304	70023016	1	Ring, Retaining	
305	70022969	2	Sheave	
306	70022960	2	Anchor, Chain	
307	70022957	8	Nut 5/8	
308	70022993	4	Pin, Cotter	
309	70022995	2	Anchor, Chain	
310	70022984	1	Shaft, Sheave	
311	70022970	2	Bar	
312	70023003	2	Screw	
313	70022994	4	Pin	
314	70022992	8	Pin, Cotter	
315	70022985	1	Shaft, Sheave	
400	70023009	2	Chain, Hoist	
401	70022932	1	Valve Assembly - Lowering Control	
403	70022931	1	Cartridge, Valve	
404	70023010	1	Cartridge, Valve	
501	70022934	3	Fitting, 90	
502	70022936	1	Fitting, Flow Limiter	
503	70022937	1	Fitting, 45	
504	70022932	1	Valve Assembly - Lowering Control (Note: Duplicate of Item 401 - Only Qty 1 Used)	
505	70022949	2	Washer, M10	
506	70022950	2	Bolt M10	
507	70022942	1	Hose	
508	70022952	1	Hose	
509	91403414	2	Fitting, Quick Disconnect Coupling (Male)	
510	91043126	2	Cap, Dust	
511	70023015	1	Mast Kit (Note: Duplicate of Item 300 - Only Qty 1 Used)	
512	NPN	1	Clamp	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
513	NPN	1	Cover, Clamp	
514	NPN	1	Bolt M8 x 50	
515	91403413	2	Fitting, Quick Disconnect Coupling (Female)	
516	91043125	2	Cap, Dust	
517	70022939	1	Fitting, Straight	
518	70022935	3	Fitting, 90	
519	70022946	1	Hose	
520	NPN	2	Hose	
601	NPN	3	Pad, Wear	
602	NPN	8	Screw	
603	NPN	2	Fitting, Grease	
604	NPN	1	Bearing	
605	NPN	1	Shaft	
606	NPN	2	Spacer, Beveled	
607	NPN	1	Ring, Retaining	
608	NPN	1	Plate	
609	NPN	1	Cylinder Assembly - Tilt (Note: No Other Service Parts Available)	
610	NPN	1	Pin	
611	NPN	4	Ring, Retaining	
612	NPN	1	Pin	
613	NPN	1	Fitting, Straight	
614	NPN	1	Fitting, 90	
615	NPN	1	Fitting, 90	
616	70022980	2	Keeper, Pin	
617	70022949	4	Washer M10	
618	NPN	2	Fitting, 90	
619	70022998	4	Bolt M10 x 20	
620	NPN	1	Fitting, Grease	
621	NPN	2	Hose	
622	NPN	1	Spine	
623	NPN	1	Frame, Carriage	
624	70022990	1	Pin, Fork	

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FIGURE 3-26. BUCKETS (SN 0160037900 to Present, Including 0160037855)



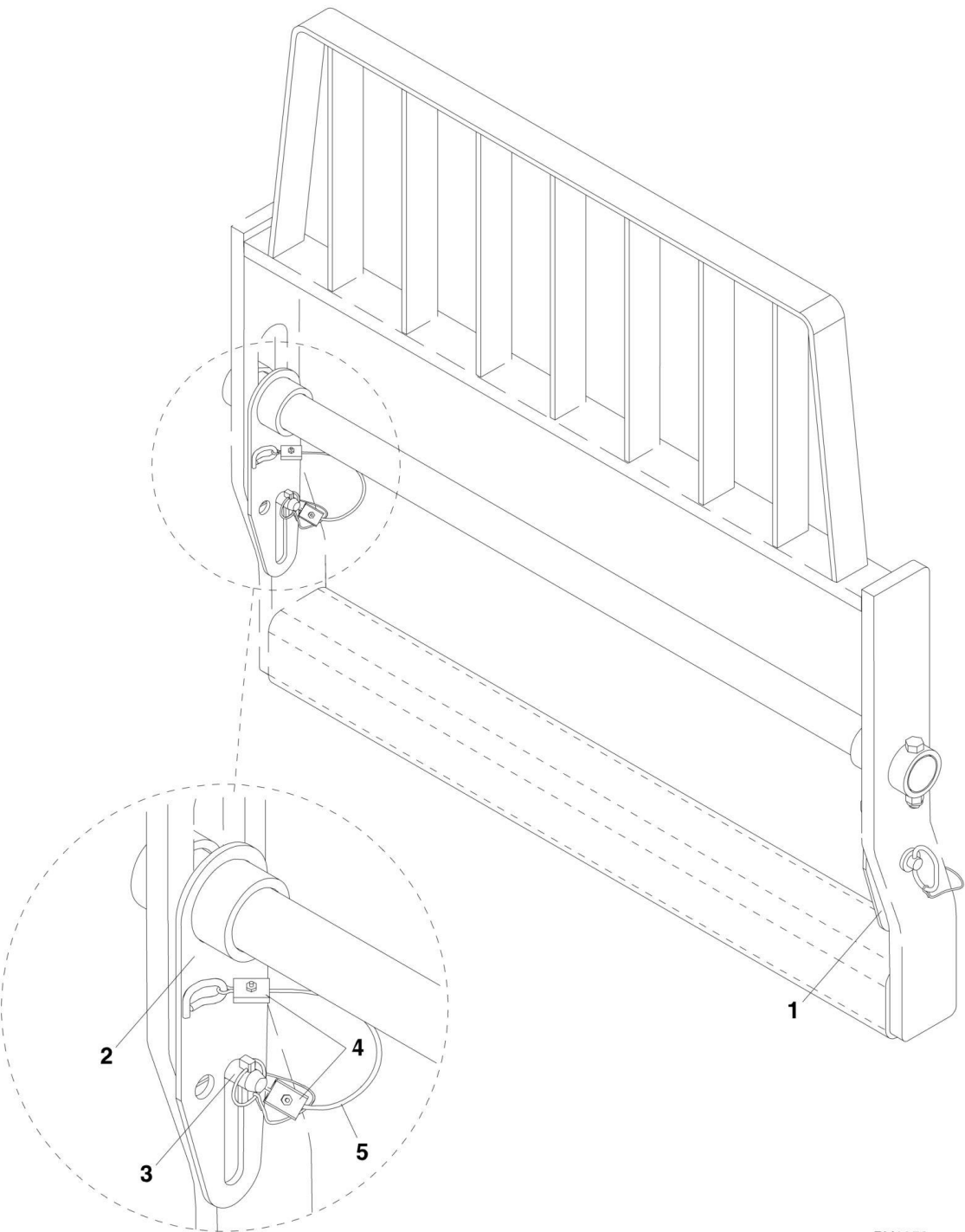
SECTION 3 - ATTACHMENTS

FIGURE 3-26. BUCKETS (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100822	1	72IN BUCKET, 1.0 ³ YARD	B
	1001100823	1	96IN BUCKET, 1.5 ³ YARD	B
	1001100824	1	102IN BUCKET, 2.0 ³ YARD	B

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FIGURE 3-27. FORK PIN LOCK INSTALLATION (SN 0160037900 to Present, Including 0160037855)



PY1650

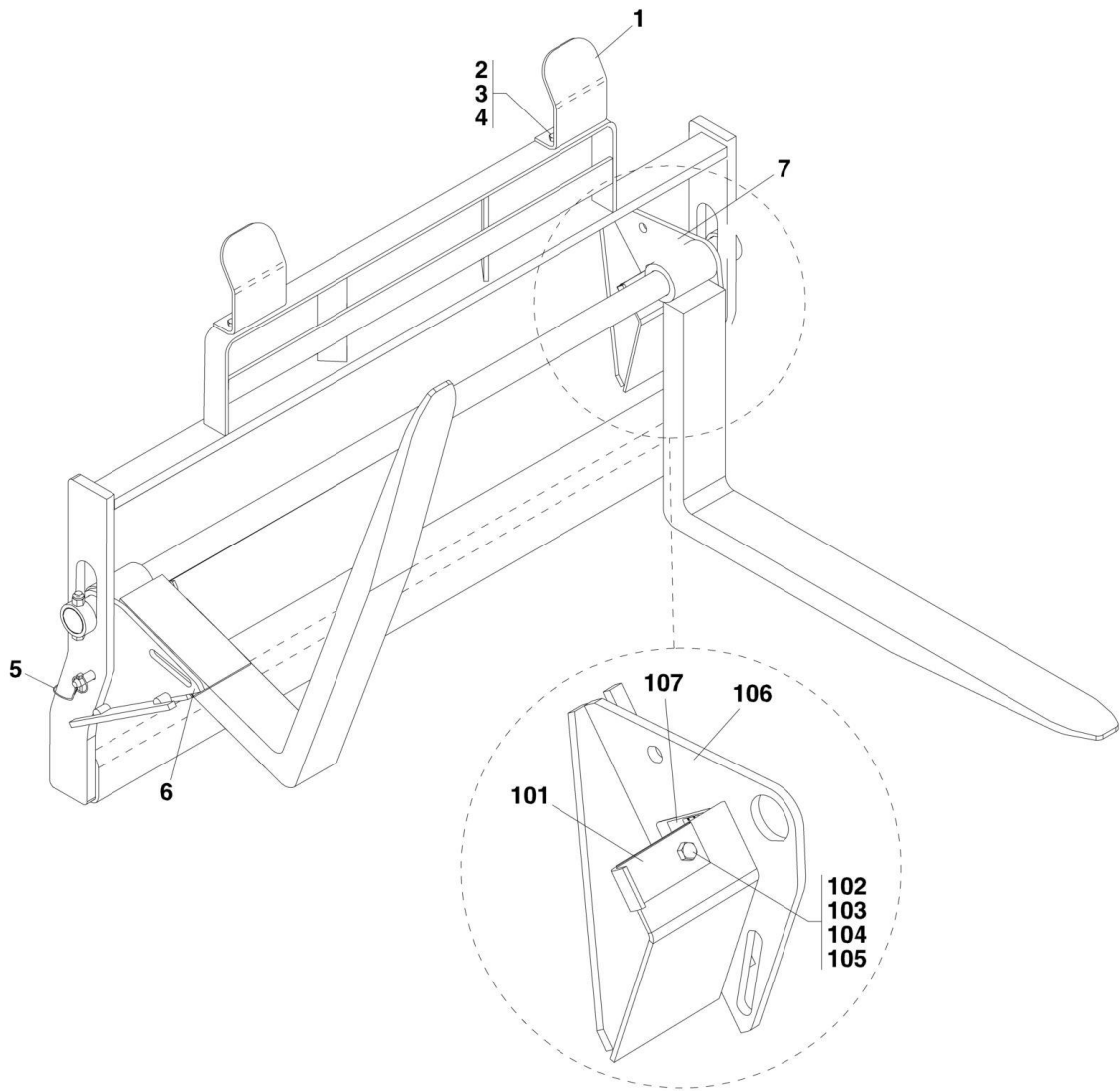
SECTION 3 - ATTACHMENTS

FIGURE 3-27. FORK PIN LOCK INSTALLATION (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001093465	1	FORK PIN LOCK INSTALLATION (not available to order, see items 1 thru 5 for service)	B
1	0240156	1	LH FORK PIN LOCK	
2	1001093273	1	RH FORK PIN LOCK	
3	1001093377	2	HITCH PIN	
4	1001094830	4	CLAMP	
5	1001094330	2	LANYARD	

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FIGURE 3-28. SHEET MATERIAL HANDLER



PY1510

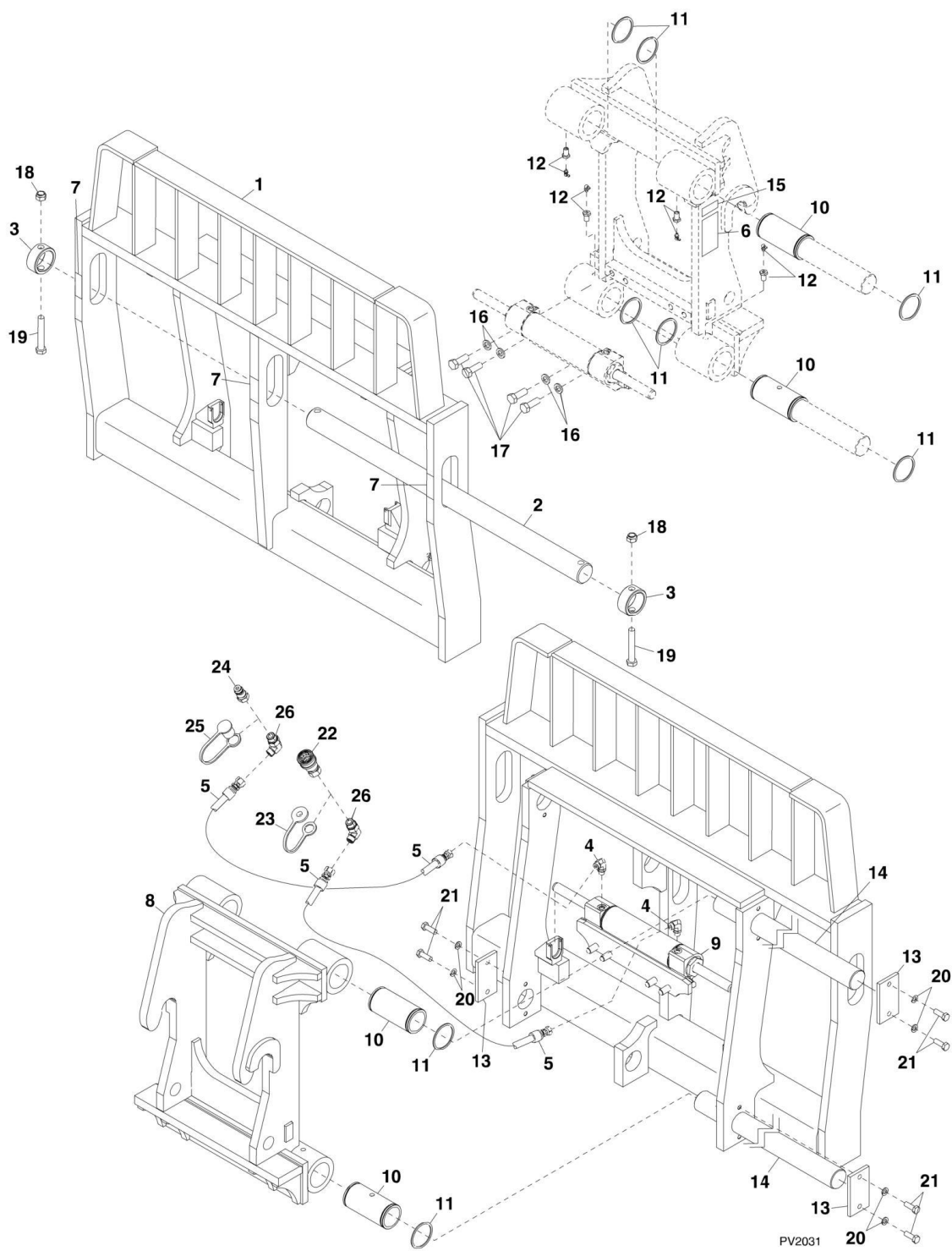
SECTION 3 - ATTACHMENTS

FIGURE 3-28. SHEET MATERIAL HANDLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100227	1	SHEET MATERIAL HANDLER ASSY, (includes items 1 thru 7)	A
1	7112642	2	BACKREST EXTENSION	
2	8303626	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
3	8305012	4	HEX NUT, 1/2-13	
4	8307007	4	LOCK WASHER, 1/2	
5	1001093377	2	HITCH PIN	
6	1001101115	1	RH FORK SUPPORT ASSY, (includes items 101 thru 107)	A
7	1001101116	1	LH FORK SUPPORT ASSY, (includes items 101 thru 107)	B
101	7114941	1	LOCK BAR	
102	8303626	1	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
103	8305644	1	HEX LOCK NUT, 1/2-13	
104	8307007	1	LOCK WASHER, 1/2	
105	8307112	1	WASHER, 1/2	
106	N.S.S.	1	FORK SUPPORT RH, (not shown)	
106	N.S.S.	1	FORK SUPPORT LH, (shown)	
107	N.S.S.	1	SN PLATE	

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FIGURE 3-29. 50IN SIDE SHIFT CARRIAGE (SN 0160037900 to Present, Including 0160037855)



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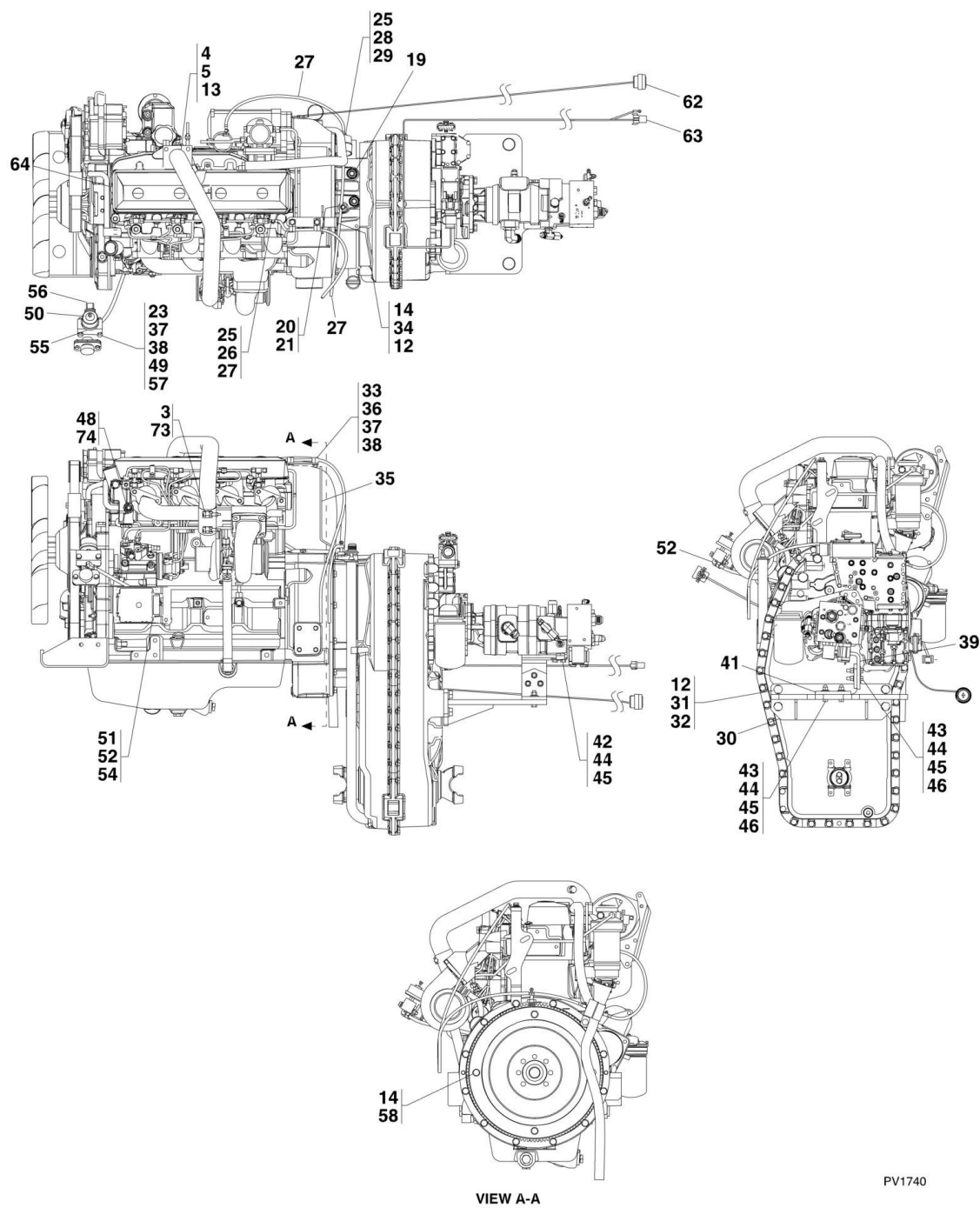
FIGURE 3-29. 50IN SIDE SHIFT CARRIAGE (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142790	1	50IN SIDE SHIFT CARRIAGE, (includes all items)	B
1	N.S.S.	1	WELDMENT	
2	70024535	1	SHAFT	
3	70024536	2	COLLAR	
4	70024123	2	ADAPTER, 90, (includes o-ring)	
5	70024537	2	HOSE ASSEMBLY	
6	N.S.S.	1	SN PLATE	
7	70024538	3	WARNING DECAL	
8	N.S.S.	1	WELDMENT	
9		Ref	50IN SIDE SHIFT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
10	70024540	4	BUSHING	
11	70024541	8	CIRCLIP	
12	70024542	4	GREASE FITTING	
13	70024543	4	RETAINER	
14	70024544	2	SHAFT	
15	N.S.S.	1	SN PLATE	
16	70024551	4	LOCKWASHER, 16mm	
17	70024552	4	HEX HD CAPSCREW, M16X45, GR10.9	
18	70024553	2	HEX NUT, M16, GR8	
19	70024554	2	HEX HD CAPSCREW, M16X100, GR10.9	
20	70022997	8	LOCKWASHER, 12mm	
21	70024555	8	HEX HD CAPSCREW, M12X35, GR10.9	
22	91403413	1	FEMALE QUICK DISCONNECT	
23	8420055	1	DUST PLUG	
24	91403414	1	MALE QUICK DISCONNECT	
25	8420053	1	DUST CAP	
26	70024550	2	ADAPTER, 90, (includes o-ring)	
K1	70024545	1	HYDRAULIC REPAIR KIT, (includes items 5, 22 thru 26)	B
K2	70024546	1	RETAINER KIT, (includes items 13, 20 & 21)	B

SECTION 4 - ENGINE AND ATTACHING PARTS

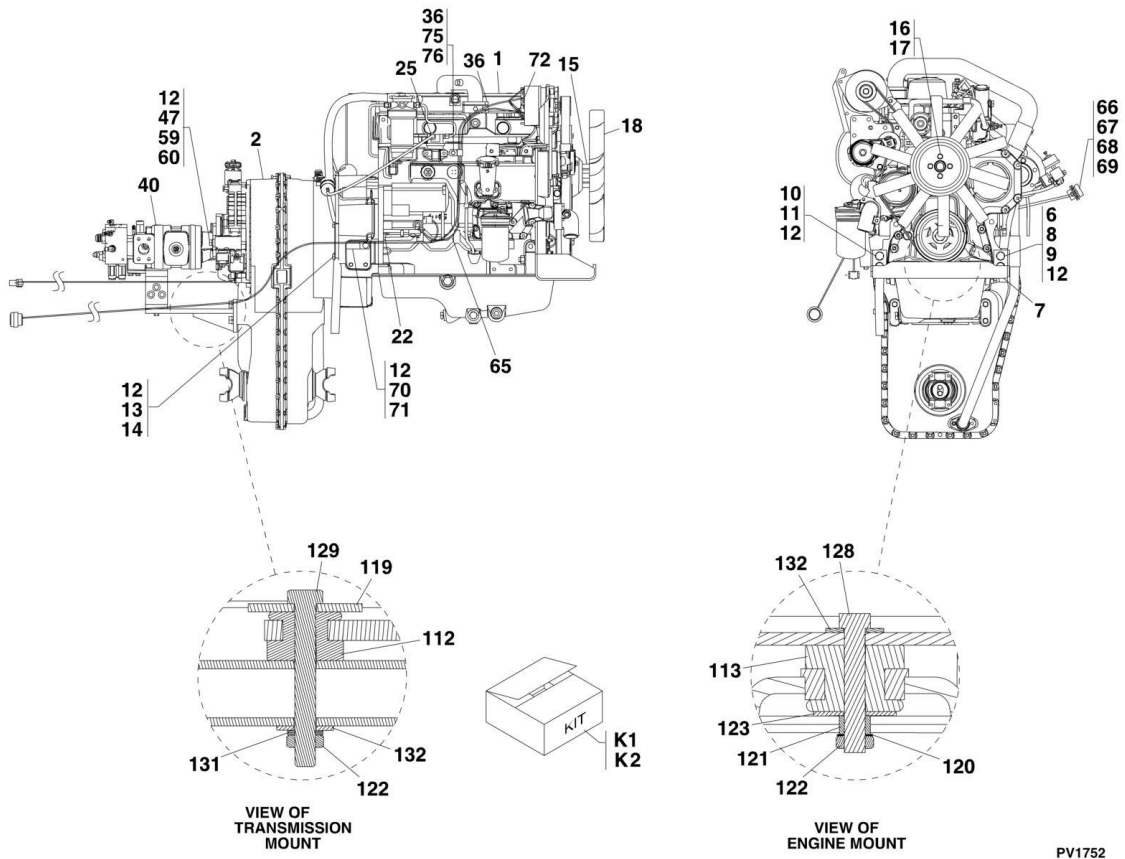
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE INSTALLATION (SN 0160009654 through 0160018506, Including 0160008714)



PV1740

SECTION 4 - ENGINE AND ATTACHING PARTS



SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE INSTALLATION (SN 0160009654 through 0160018506, Including 0160008714)

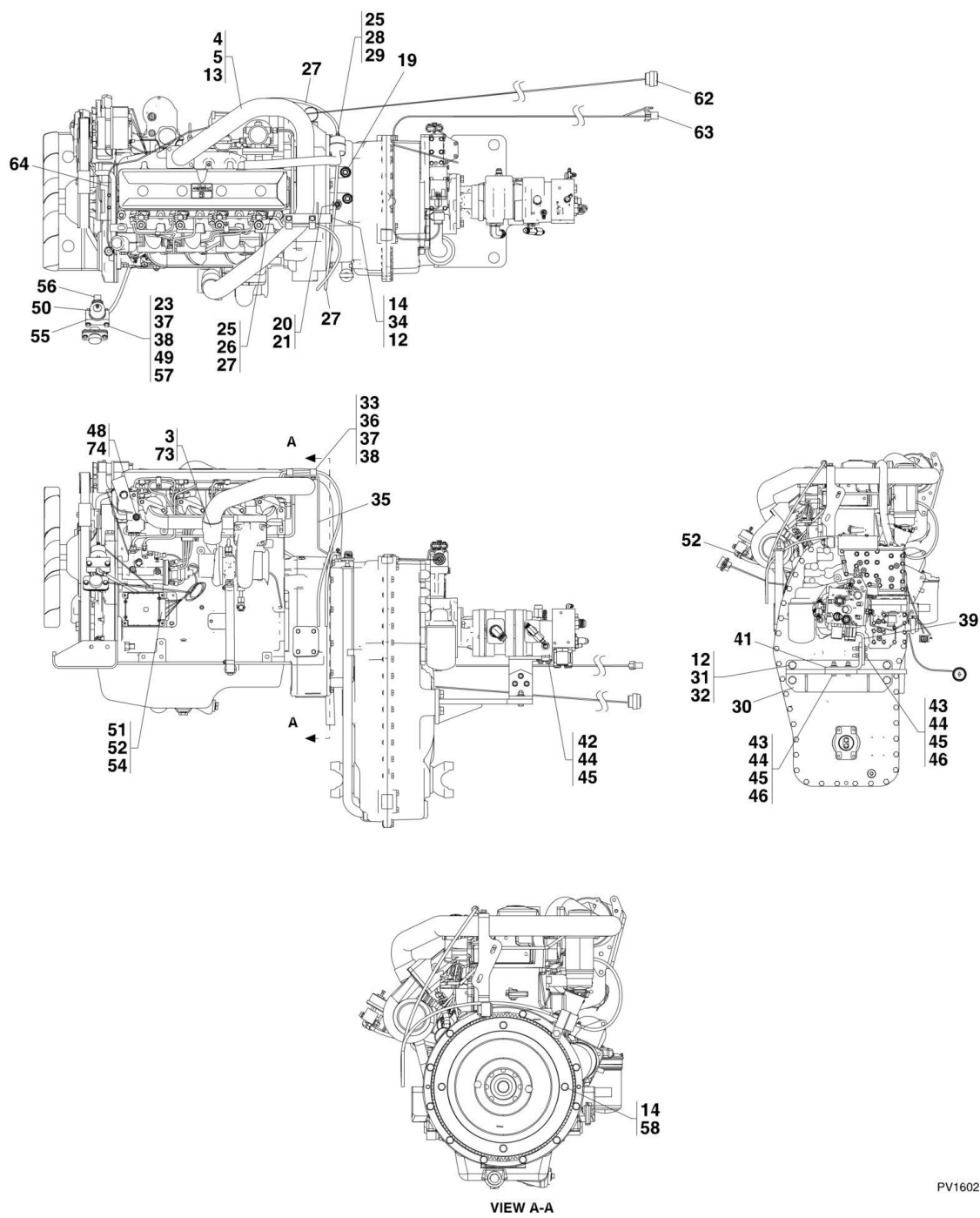
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274396	Ref	ENGINE INSTALLATION, (not available to order, see items 1 thru 71 & 73 thru 76 for service)	I
1		Ref	JOHN DEERE ENGINE, (See ENGINE for Breakdown)	
2		Ref	ZF TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)	
3	2720550	1	AIR INTAKE HOSE COUPLING	
4	3460480	1	AIR INTAKE HOSE	
5	91553057	1	INTAKE GASKET	
6	0642022	2	HEX HD CAPSCREW, 5/8-11X2-3/4	
7	10265156	1	ENGINE MOUNT	
8	10701314	4	LOCKWASHER, 5/8	
9	10701512	2	HEX NUT, 5/8-11	
10	10704303	2	SOCKET HD CAPSCREW, M16X2.0X40, GR8.8	
11	10704611	2	LOCKWASHER, M16	
12	0100011	AR	LOCTITE 242	
13	0711014	13	HEX HD CAPSCREW, M10X30, (torque to 53-58 lb-ft)	
14	4812000	16	WASHER, 10mm	
15	0080270	1	FAN SPACER	
16	0700822	4	HEX HD CAPSCREW, M8X70	
17	4811900	4	WASHER, 8mm	
18	10728734	1	FAN	
19	2220408	2	CONNECTOR, (includes o-ring)	
19	88591206	2	O-RING	
20	2180858	1	CONNECTOR, 1/8 NPT TO 3/4 ORB	
21	10719472	1	OIL TEMP SENDER	
22	5251016	1	HEX HD CAPSCREW, M10X40, FLNG	
23	8130647	2	LOCKWASHER, M8	
25	8405009	4	HOSE CLAMP	
26	80373025	1	PUSH-LOCK FITTING	
27	82092118	17 ft	HOSE, 5/16IN	
28	90028660	1	LOOP CLAMP	
29	91083218	1	FUEL STRAINER	
30	4341019	1	TRANSMISSION MOUNT WELDMENT	
31	8307049	4	LOCKWASHER, M16	
32	0701617	4	HEX HD CAPSCREW, M16X45	
33	0641506	2	HEX HD CAPSCREW, 5/16-18X3/4	
34	0711015	1	HEX HD CAPSCREW, M10X35, (torque to 53-58 lb-ft)	
35	0903245	1	INTAKE TUBE SUPPORT BRACKET	
36	8406101	4	HOSE CLAMP	
37	3271501	4	HEX NUT, 5/16	
38	4711500	8	WASHER, 5/16	
39	0903213	1	UPPER PUMP SUPPORT BRACKET	
40	N.S.S.	1	VALVE AND PUMP ASSY	
40		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
40	3931648	4	SOCKET HD CAPSCREW, 3/8-16X3, (Accum Charge Valve to Pump)	
40		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
41	10239839	1	LOWER PUMP SUPPORT BRACKET	
42	10700205	2	HEX HD CAPSCREW, 3/8-16X1-1/4	

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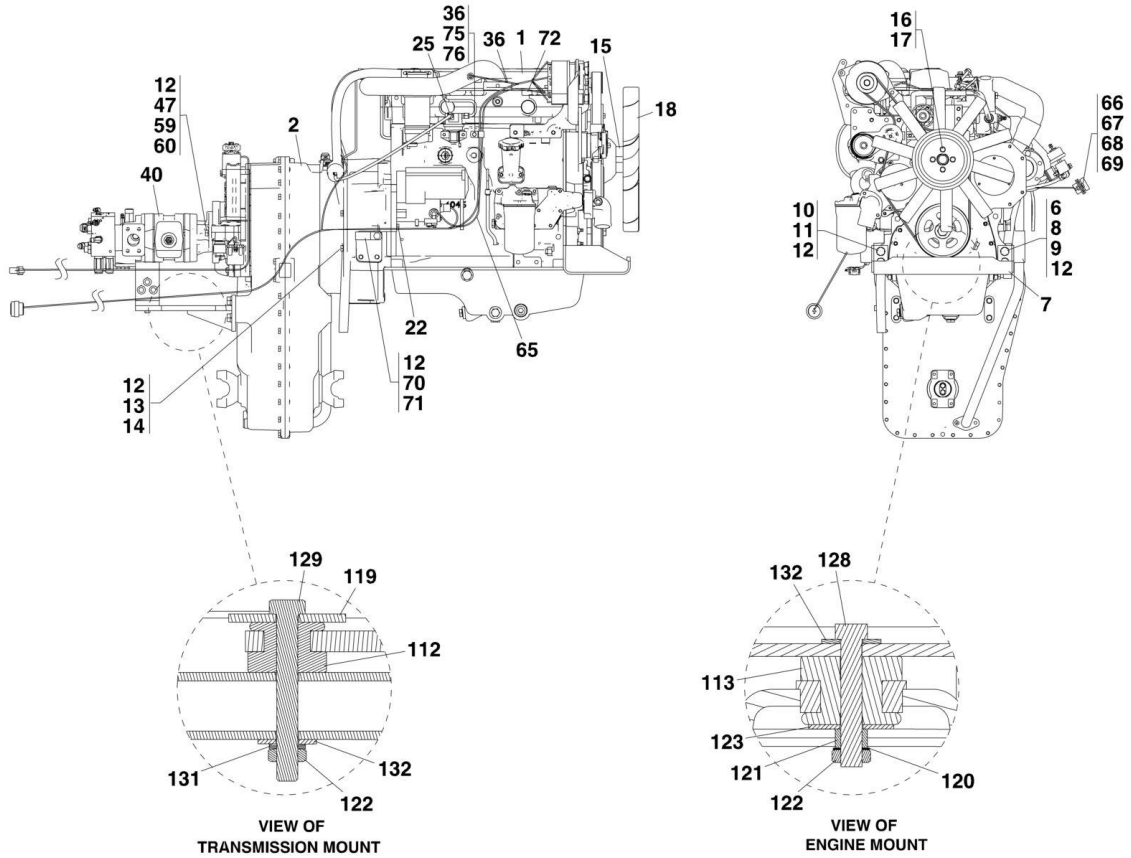
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	10700207	5	HEX HD CAPSCREW, 3/8-16X1-3/4	
44	10701277	7	HARDENED FLAT WASHER, 3/8IN	
45	10701310	7	LOCKWASHER, 3/8	
46	10701508	5	HEX NUT, 3/8-16	
47	10718602	1	O-RING	
48	10723222	1	WATER TEMP SENDER	
49	4761500	2	LOCKWASHER, 5/16	
50	10723217	1	OIL PRESSURE SENDER	
51	72071980	1.5 ft	NYLON HOSE, 3/8IN	
52	86883074	2	ELBOW, 90, 1/8 NPT TO 3/8 TUBE	
54	88711570	1	PIPE ADAPTER	
55	91081388	1	TAPPED BAR	
56	91563122	1	OIL PRESSURE SWITCH	
57	0641518	2	HEX HD CAPSCREW, 5/16-18X2-1/4	
58	0761012	4	HEX HD CAPSCREW, M10X25	
59	0701216	2	HEX HD CAPSCREW, M12X40	
60	4832100	2	SPRING LOCKWASHER, M12	
62		Ref	ENGINE ECU HARNESS, (See ELECTRICAL SECTION for Breakdown)	
63		Ref	TRANSMISSION SOLENOID HARNESS, (See ELECTRICAL SECTION for Breakdown)	
64	10720496	2	TIE WRAP	
65	1033820006	1	JUMPER WIRE, 26IN	
66	0641408	2	HEX HD CAPSCREW, 1/4-20X1	
67	3311405	2	HEX LOCKNUT, 1/4-20	
68	4711400	4	WASHER, 1/4	
69	91561291	2	MOUNT PLATE	
70	1320239	1	CLAMP, 1-3/4	
71	0701210	1	HEX HD CAPSCREW, M12X20	
72		Ref	DIODE HARNESS, (supplied with engine), (See ELECTRICAL SECTION for Breakdown)	
73	8405209	1	T-BOLT CLAMP	
74	91403265	1	REDUCER, 14mm	
75	8303784	1	HEX HD CAPSCREW, M10X1.5X20mm, PC8.8	
76	8307221	1	PLAIN WASHER, M10	
77	10837776	1	BLOCK HEATER, 120V, (not shown)	
112	10732961	2	CENTER BONDED MOUNT	
113	10718181	1	CENTER BONDED ISOLATOR	
119	10115616	2	MOUNT WASHER	
120	4792000	1	STAR WASHER, 5/8	
121	10701535	1	HEX NUT, 5/8-18	
122	10701585	3	JAM NUT, 5/8-18	
123	10115618	1	SNUBBING WASHER	
128	10700690	1	HEX HD CAPSCREW, 5/8-18X3-3/4, GR8	
129	10700693	2	HEX HD CAPSCREW, 5/8-18X5, GR8	
131	10701314	2	LOCKWASHER, 5/8	
132	10701408	3	WASHER, 5/8	
K1	2915065	1	250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter and safety air filter)	
K2	2915066	1	1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter, safety air filter, transmission oil filter, hydraulic oil filter and breather filter)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)



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SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)

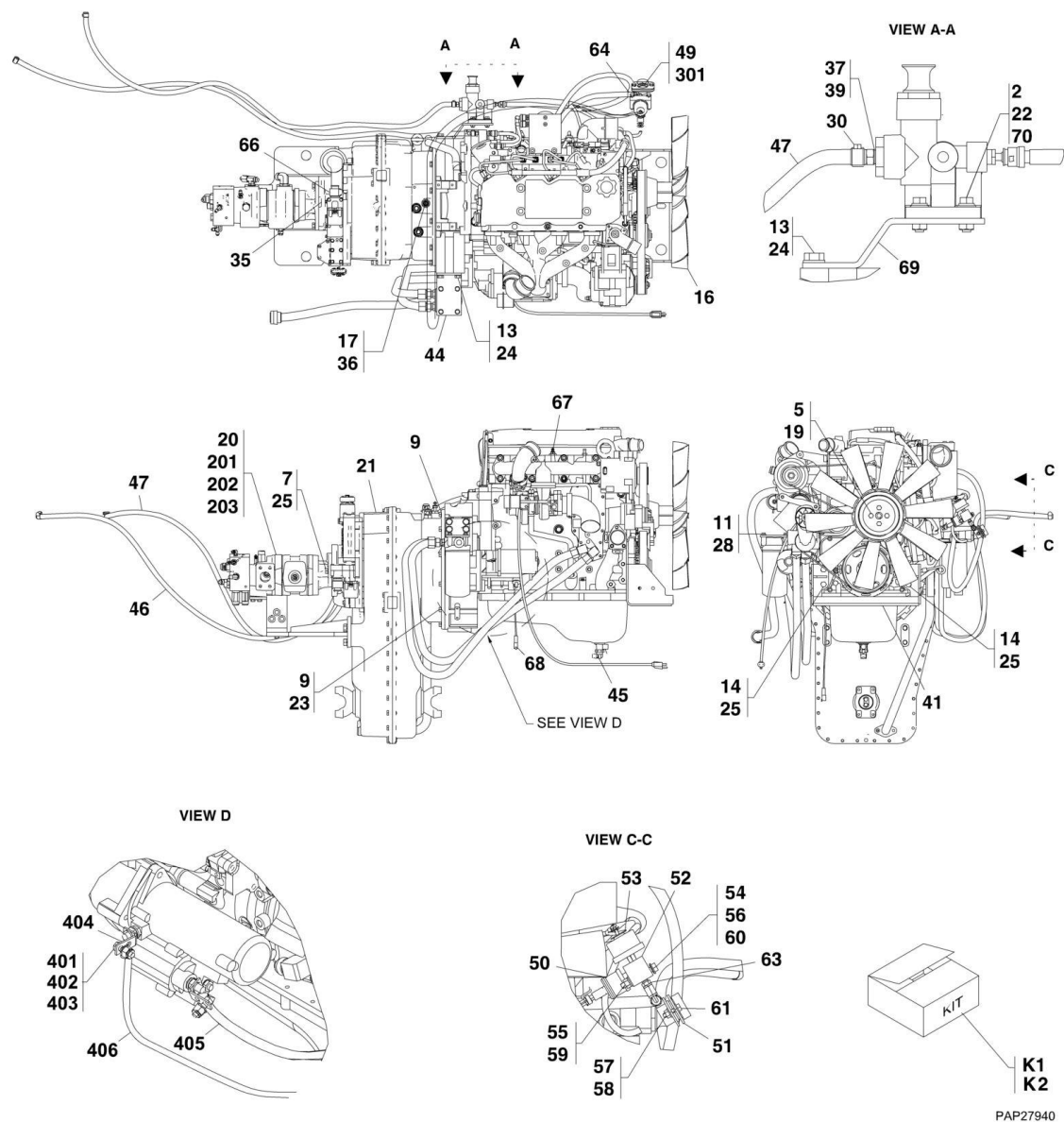
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274396	Ref	ENGINE INSTALLATION, (not available to order, see items 1 thru 71 & 73 thru 76 for service)	M
1		Ref	JOHN DEERE ENGINE, (See ENGINE for Breakdown)	
2		Ref	ZF TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)	
3	2720550	1	AIR INTAKE HOSE COUPLING	
4	3460480	1	AIR INTAKE HOSE	
5	91553057	1	INTAKE GASKET	
6	0642022	2	HEX HD CAPSCREW, 5/8-11X2-3/4	
7	10265156	1	ENGINE MOUNT	
8	10701314	4	LOCKWASHER, 5/8	
9	10701512	2	HEX NUT, 5/8-11	
10	10704303	2	SOCKET HD CAPSCREW, M16X2.0X40, GR8.8	
11	10704611	2	LOCKWASHER, M16	
12	0100011	AR	LOCTITE 242	
13	0711014	13	HEX HD CAPSCREW, M10X30, (torque to 53-58 lb-ft)	
14	4812000	16	WASHER, 10mm	
15	0080270	1	FAN SPACER	
16	0700822	4	HEX HD CAPSCREW, M8X70	
17	4811900	4	WASHER, 8mm	
18	10728734	1	FAN	
19	2220408	2	CONNECTOR, (includes o-ring)	
19	88591206	2	O-RING	
20	2180858	1	CONNECTOR, 1/8 NPT TO 3/4 ORB	
21	10719472	1	OIL TEMP SENDER	
22	5251016	1	HEX HD CAPSCREW, M10X40, FLNG	
23	8310647	2	LOCKWASHER, M8	
25	8405009	4	HOSE CLAMP	
26	80373025	1	PUSH-LOCK FITTING	
27	82092118	17 ft	HOSE, 5/16IN	
28	90028660	1	LOOP CLAMP	
29	91083218	1	FUEL STRAINER	
30	4341019	1	TRANSMISSION MOUNT WELDMENT	
31	8307049	4	LOCKWASHER, M16	
32	0701617	4	HEX HD CAPSCREW, M16X45	
33	0641506	2	HEX HD CAPSCREW, 5/16-18X3/4	
34	0711015	1	HEX HD CAPSCREW, M10X35, (torque to 53-58 lb-ft)	
35	0903245	1	INTAKE TUBE SUPPORT BRACKET	
36	8406101	4	HOSE CLAMP	
37	3271501	4	HEX NUT, 5/16	
38	4711500	8	WASHER, 5/16	
39	0903213	1	UPPER PUMP SUPPORT BRACKET	
40	N.S.S.	1	VALVE AND PUMP ASSY	
40		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
40	3931648	4	SOCKET HD CAPSCREW, 3/8-16X3, (Accum Charge Valve to Pump)	
40		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
41	10239839	1	LOWER PUMP SUPPORT BRACKET	

SECTION 4 - ENGINE AND ATTACHING PARTS

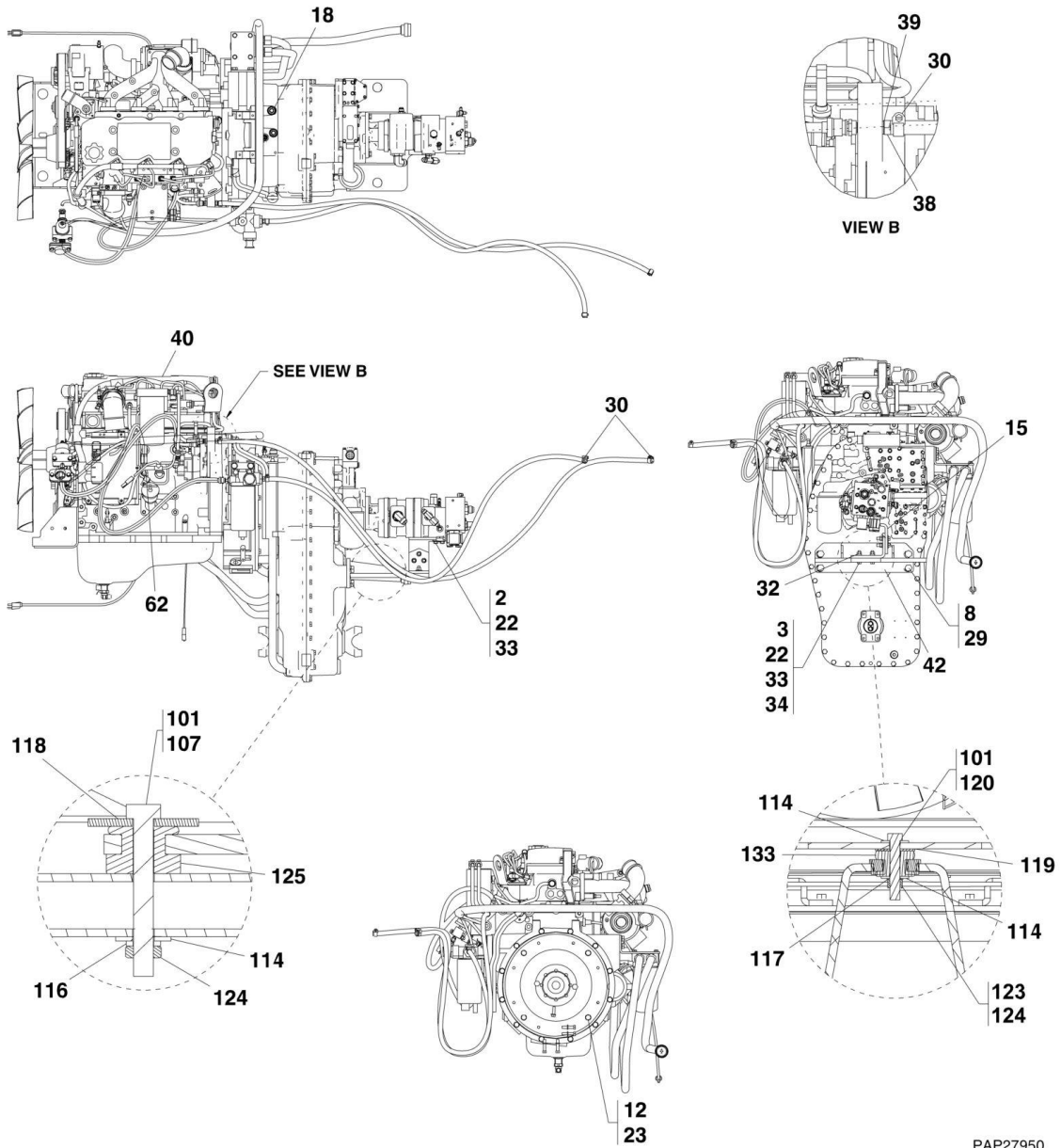
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	10700205	2	HEX HD CAPSCREW, 3/8-16X1-1/4	
43	10700207	5	HEX HD CAPSCREW, 3/8-16X1-3/4	
44	10701277	7	HARDENED FLAT WASHER, 3/8IN	
45	10701310	7	LOCKWASHER, 3/8	
46	10701508	5	HEX NUT, 3/8-16	
47	10718602	1	O-RING	
48	10723222	1	WATER TEMP SENDER	
49	4761500	2	LOCKWASHER, 5/16	
50	10723217	1	OIL PRESSURE SENDER	
51	72071980	1.5 ft	NYLON HOSE, 3/8IN	
52	86883074	2	ELBOW, 90, 1/8 NPT TO 3/8 TUBE	
54	88711570	1	PIPE ADAPTER	
55	91081388	1	TAPPED BAR	
56	91563122	1	OIL PRESSURE SWITCH	
57	0641518	2	HEX HD CAPSCREW, 5/16-18X2-1/4	
58	0761012	4	HEX HD CAPSCREW, M10X25	
59	0701216	2	HEX HD CAPSCREW, M12X40	
60	4832100	2	SPRING LOCKWASHER, M12	
62		Ref	ENGINE ECU HARNESS, (See ELECTRICAL SECTION for Breakdown)	
63		Ref	TRANSMISSION SOLENOID HARNESS, (See ELECTRICAL SECTION for Breakdown)	
64	10720496	2	TIE WRAP	
65	1033820006	1	JUMPER WIRE, 26IN	
66	0641408	2	HEX HD CAPSCREW, 1/4-20X1	
67	3311405	2	HEX LOCKNUT, 1/4-20	
68	4711400	4	WASHER, 1/4	
69	91561291	2	MOUNT PLATE	
70	80673023	1	SUPPORT CLAMP	
71	0701210	1	HEX HD CAPSCREW, M12X20	
72		Ref	DIODE HARNESS, (supplied with engine), (See ELECTRICAL SECTION for Breakdown)	
73	8405209	1	T-BOLT CLAMP	
74	91403265	1	REDUCER, 14mm	
75	8303784	1	HEX HD CAPSCREW, M10X1.5X20mm, PC8.8	
76	8307221	1	PLAIN WASHER, M10	
77	10837776	1	BLOCK HEATER, 120V, (not shown)	
112	10732961	2	CENTER BONDED MOUNT	
113	10718181	1	CENTER BONDED ISOLATOR	
119	10115616	2	MOUNT WASHER	
120	4792000	1	STAR WASHER, 5/8	
121	10701535	1	HEX NUT, 5/8-18	
122	10701585	3	JAM NUT, 5/8-18	
123	10115618	1	SNUBBING WASHER	
128	10700690	1	HEX HD CAPSCREW, 5/8-18X3-3/4, GR8	
129	10700693	2	HEX HD CAPSCREW, 5/8-18X5, GR8	
131	10701314	2	LOCKWASHER, 5/8	
132	10701408	3	WASHER, 5/8	
K1	2915065	1	250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter and safety air filter)	
K2	2915066	1	1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter, safety air filter, transmission oil filter, hydraulic oil filter and breather filter)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)



SECTION 4 - ENGINE AND ATTACHING PARTS



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SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096071	Ref	ENGINE INSTALLATION, (not available to order, see items 1 thru 70 for service) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	L
	1001115056	Ref	ENGINE INSTALLATION, (not available to order, see items 1 thru 70 for service) (SN 0160051140 to Present, Including 0160050734 and 0160050735)	A
1	0100011	AR	LOCTITE 242	
2	0641610	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
3	0641614	5	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
5	8310645	4	HEX HD CAPSCREW, M10X100, GR8.8, (torque to 34-61 lb-ft)	
7	0701216	2	HEX HD CAPSCREW, M12X40, GR8.8	
8	0701617	4	HEX HD CAPSCREW, M16X45, GR8.8	
9	0711014	12	HEX HD CAPSCREW, M10X30, GR10.9	
11	0760810	4	HEX HD CAPSCREW, M8X20, GR8.8	
12	0761012	4	HEX HD CAPSCREW, M10X25, GR8.8	
13	0761214	6	HEX HD CAPSCREW, M12X30, GR8.8	
14	0761215	4	HEX HD CAPSCREW, M12X35, GR8.8	
15	0903213	1	PUMP UPPER SUPPORT BRACKET	
16	2060045	1	FAN	
17	2180858	1	CONNECTOR	
18	2220408	2	CONNECTOR	
19	3575947	2	FAN HUB PLATE	
20	3600427	1	VALVE AND PUMP ASSEMBLY, (includes items 201 thru 203) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	B
20	1001115055	1	VALVE AND PUMP ASSEMBLY, (includes items 201 thru 203) (SN 0160051140 to Present, Including 0160050734 and 0160050735)	A
21		Ref	TRANSMISSION ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)	
22	4761600	9	LOCKWASHER, 3/8	
23	4812000	16	FLAT WASHER, 10mm	
24	4812100	6	FLAT WASHER, 12mm	
25	4832100	6	SPRING LOCKWASHER, 12mm	
28	5240800	4	HARDENED WASHER, 8mm	
29	8307049	4	LOCKWASHER, 16mm	
30	8410013	4	GEAR CLAMP, (torque to 16-20 lb-ft)	
32	10239839	1	PUMP LOWER SUPPORT BRACKET	
33	10701277	7	FLAT WASHER, 3/8	
34	10701508	5	HEX NUT, 3/8-16	
35	10718602	1	O-RING	
36	10719472	1	OIL TEMPERATURE SENDER	
37	1001093891	1	HOSE COUPLING	
38	1001093892	1	HOSE COUPLING	
39	1001093944	2	SEALING WASHER	
40		Ref	CUMMINS ENGINE, (See ENGINE for Breakdown)	
41	1001096073	1	ENGINE MOUNT WELDMENT	
42	1001096412	1	TRANSMISSION MOUNT WELDMENT	
44	1001097579	1	OIL FILTER BRACKET MOUNT	
45	1001099493	1	OIL CHANGER PLUG	
46	1001103406	1	FUEL RETURN HOSE	

SECTION 4 - ENGINE AND ATTACHING PARTS

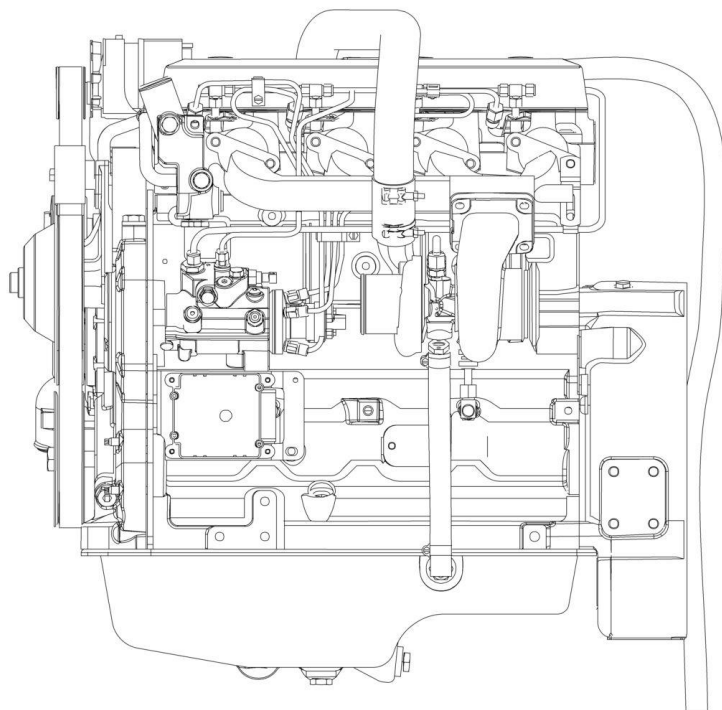
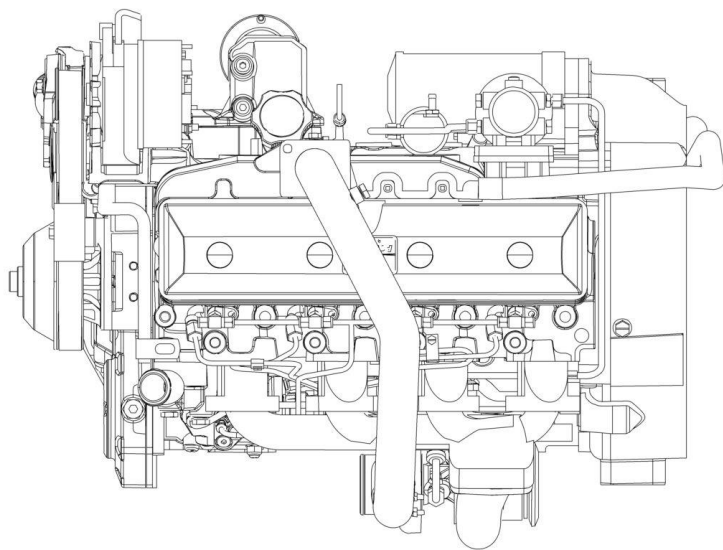
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	1001103407	1	FUEL SUPPLY HOSE	
49		Ref	ECU ENGINE HARNESS, (See ELECTRICAL SECTION for Breakdown)	
50	91563122	1	OIL PRESSURE SWITCH	
51	91561291	2	MOUNT PLATE	
52	91081388	1	TAPPED BAR	
53	10723217	1	ENGINE OIL PRESSURE SENDER	
54	8310647	2	LOCKWASHER, 8mm	
55	4761500	2	LOCKWASHER, 5/16	
56	4711500	4	FLAT WASHER, 5/16	
57	4711400	4	FLAT WASHER, 1/4	
58	3311405	2	HEX LOCKNUT, 5/16-18, GR8	
59	3271501	2	HEX NUT, 5/16-18, GR8	
60	0641518	2	HEX HD CAPSCREW, 5/16-18X2-1/4, GR5	
61	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
62	8770064	1	CONNECTOR	
63	2220574	1	CONNECTOR	
64	1001113262	1	HOSE ASSY	
66		Ref	TRANSMISSION SOLENOID HARNESS, (See ELECTRICAL SECTION for Breakdown)	
67	10723222	1	WATER TEMPERATURE SENDER	
68	1001114191	1	STARTER EXTENSION HARNESS	
69	1001118512	1	FUEL FILTER BRACKET	
70	4711600	2	FLAT WASHER, 3/8	
101	0100011	AR	LOCTITE 242	
107	0692040	2	HEX HD CAPSCREW, 5/8-18X5, GR8 (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	
107	10700693	2	HEX HD CAPSCREW, 5/8-18X5, GR8 (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
114	4752000	4	FLAT WASHER, 5/8 (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	
114	10701408	2	FLAT WASHER, 5/8 (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
116	4762000	2	LOCKWASHER, 5/8	
117	4792000	1	STAR WASHER, 5/8	
118	10115616	2	LORD MOUNT WASHER	
119	10115618	1	SNUBBING WASHER	
120	10700690	1	HEX HD CAPSCREW, 5/8-18X3-3/4, GR8	
123	10701535	1	HEX NUT, 5/8-18	
124	10701585	3	JAM NUT, 5/8-18 (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	
124	10701585	2	JAM NUT, 5/8-18 (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
125	10732961	2	CENTER BONDED MOUNT	
133	1001096418	1	ENGINE CENTER BONDED MOUNT	
201		Ref	ACCUMULATOR VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
202	3931648	4	SOCKET HD CAPSCREW, 3/8-16X3, (torque to 35 lb-ft)	
203		Ref	TANDEM PUMP ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
301		Ref	DASH HARNESS, (See ELECTRICAL SECTION for Breakdown)	
401	0641610	2	HEX HD CAPSCREW 3/8-16X1-1/4	
402	4711600	2	FLAT WASHER, 3/8	
403	88521206	2	LOCKNUT, 3/8-16	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
404	7300344	2	STARTER NEGATIVE BAR	
405		Ref	POSITIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)	
406		Ref	NEGATIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)	
K1	1001128966	1	250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, secondary fuel filter, primary air filter and safety air filter)	
K2	1001128965	1	1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, secondary fuel filter, primary air filter, safety air filter, transmission oil filter, hydraulic oil filter, hydraulic pressure filter, hydraulic in-line filter and breather filter)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE (SN 0160009654 through 0160018506, Including 0160008714)



PV1621

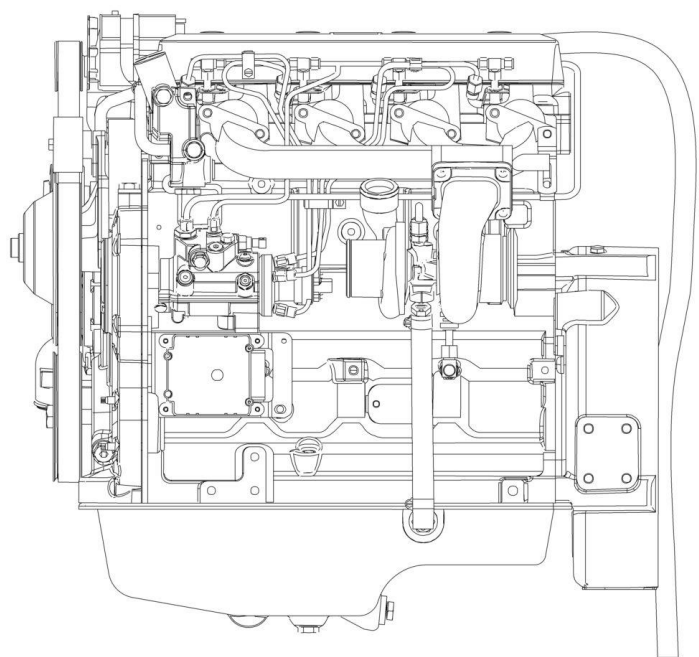
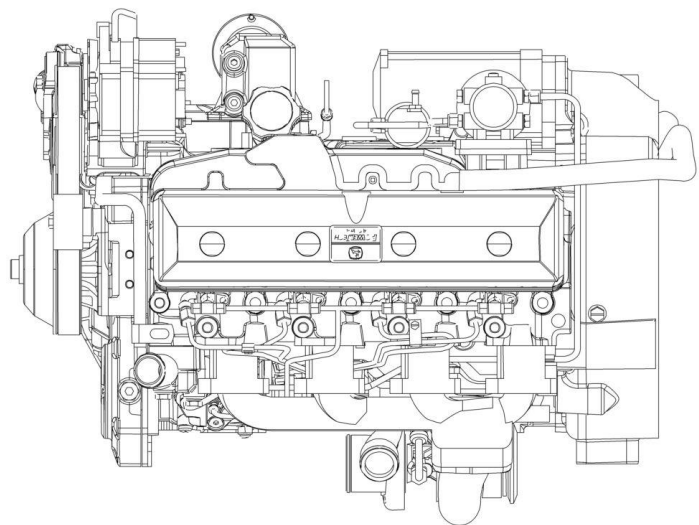
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE (SN 0160009654 through 0160018506, Including 0160008714)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2000294	1	JOHN DEERE ENGINE, 115 HP, (includes all items)	C
	91404257	1	GASKET, VALVE COVER	
	91404256	4	PLUG, VALVE COVER	
	91404259	4	O-RING, VALVE COVER PLUG	
	91404258	1	FILLER CAP, (includes packing)	
	91404255	1	PACKING, FILLER CAP	
	91404253	2	GASKET, OIL FILLER	
	91404251	1	SEAL, FLYWHEEL HOUSING	
	7029210	1	FLYWHEEL, (includes ring gear)	
	80374031	1	RING GEAR	
	7029211	1	FUEL INJECTION PUMP	
	7026918	1	AIR INLET GASKET	
	91553057	1	AIR INLET GASKET	
	7026927	1	THERMOSTAT COVER GASKET	
	91404242	1	OIL PAN GASKET	
	7026920	1	THERMOSTAT	
	91404086	1	BELT	
	80374047	1	IDLER	
	91404237	1	SPACER, IDLER	
	91404238	1	SLEEVE, IDLER	
	91404236	1	SCREW, IDLER	
	91404234	4	GASKET, EXHAUST MANIFOLD	
	7026921	1	STARTER MOTOR	
	7026922	1	ALTERNATOR	
	80474020	1	PULLEY, ALTERNATOR	
	91474631	1	STRAP, ALTERNATOR	
	91534004	1	FUEL FILTER ELEMENT	
	80374050	1	FUEL FILTER KIT	
	80374054	1	FUEL FILTER KIT	
	80374154	1	SEAL KIT, FUEL FILTER	
	91404262	1	FUEL PUMP, (includes o-ring)	
	7026923	1	O-RING, FUEL PUMP	
	91404085	1	DIPSTICK	
	91554032	1	DIPSTICK TUBE	
	80374126	1	WATER PUMP, (includes seal)	
	91404264	1	SEAL, WATER PUMP	
	91404232	1	GASKET, WATER PUMP	
	91404229	1	O-RING, WATER PUMP INLET	
	7029212	1	TURBOCHARGER	
	91404267	1	GASKET, TURBOCHARGER	
	91404268	1	HOSE ASSY	
	91404223	1	PULLEY, BELT TENSIONER, (includes bolt)	
	91404221	1	BOLT, BELT TENSIONER PULLEY	
	91404222	1	SCREW, BELT TENSIONER PULLEY	
	91534005	1	OIL FILTER	
	80374036	1	GASKET, OIL FILTER HEAD	
	91474506	1	DRAIN PLUG, OIL FILTER, (includes o-ring)	
	80374020	1	O-RING, DRAIN PLUG	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. ENGINE (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)



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SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. ENGINE (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)

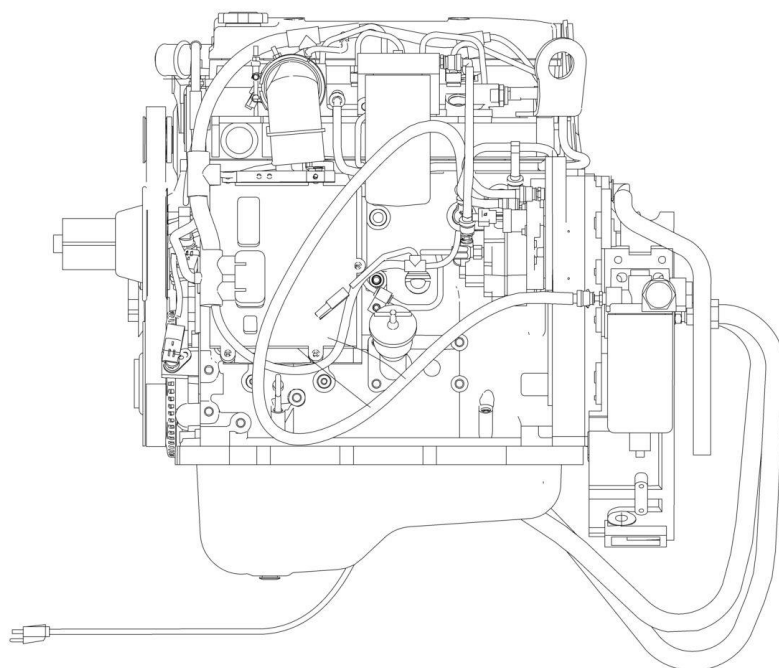
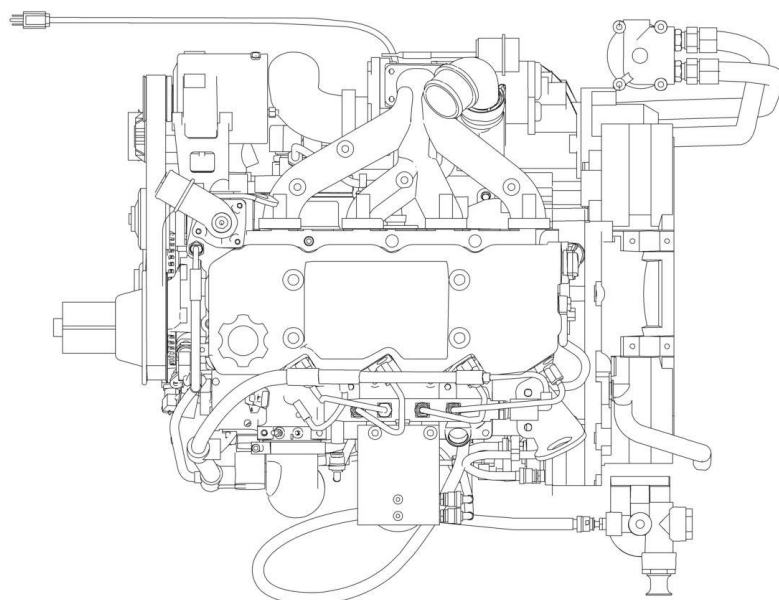
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2000381	1	JOHN DEERE ENGINE, 115 HP, (includes all items)	A
	91404257	1	GASKET, VALVE COVER	
	91404256	4	PLUG, VALVE COVER	
	91404259	4	O-RING, VALVE COVER PLUG	
	91404258	1	FILLER CAP, (includes packing)	
	91404255	1	PACKING, FILLER CAP	
	91404253	2	GASKET, OIL FILLER	
	91404251	1	SEAL, FLYWHEEL HOUSING	
	7026915	1	FLYWHEEL, (includes ring gear)	
	80374031	1	RING GEAR	
	7029211	1	FUEL INJECTION PUMP	
	70022289	4	INJECTION NOZZLE	
	7026918	1	GASKET, AIR INLET	
	91553057	1	GASKET, AIR INLET	
	7026927	1	GASKET, THERMOSTAT COVER	
	70023458	1	OIL PAN	
	91404242	1	GASKET, OIL PAN	
	7026920	1	THERMOSTAT	
	70021491	1	BELT	
	80374047	1	IDLER	
	91404237	1	SPACER, IDLER	
	91404238	1	SLEEVE, IDLER	
	91404236	1	SCREW, IDLER	
	91404234	4	GASKET, EXHAUST MANIFOLD	
	7026921	1	STARTER MOTOR	
	7026922	1	ALTERNATOR	
	80474020	1	PULLEY, ALTERNATOR	
	91474631	1	STRAP, ALTERNATOR	
	91534004	1	FUEL FILTER ELEMENT	
	80374050	1	FUEL FILTER KIT	
	80374054	1	FUEL FILTER KIT	
	80374154	1	FUEL FILTER SEAL KIT	
	91404262	1	FUEL PUMP, (includes o-ring)	
	7026923	1	O-RING, FUEL PUMP	
	91404085	1	DIPSTICK	
	91554032	1	DIPSTICK TUBE	
	80374126	1	WATER PUMP, (includes seal)	
	91404264	1	SEAL, WATER PUMP	
	91404232	1	GASKET, WATER PUMP	
	91404229	1	O-RING, WATER PUMP INLET	
	70021492	1	TURBOCHARGER	
	91404267	1	GASKET, TURBOCHARGER	
	70021493	1	HOSE ASSY, TURBOCHARGER, (requires turbocharger hose o-ring)	
	91404266	2	O-RING, TURBOCHARGER HOSE	
	80374051	1	OIL LINE, TURBOCHARGER	
	91404265	1	GASKET, TURBOCHARGER OIL LINE	
	70023461	4	SCREW, M10X25, (turbocharger)	
	91404223	1	PULLEY, BELT TENSIONER, (includes bolt)	
	91404221	1	BOLT, BELT TENSIONER PULLEY	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91404222	1	SCREW, BELT TENSIONER PULLEY	
	91534005	1	OIL FILTER	
	80374036	1	GASKET, OIL FILTER HEAD	
	91474506	1	DRAIN PLUG, OIL FILTER, (includes o-ring)	
	80374020	1	O-RING, DRAIN PLUG	
	70021899	1	PULLEY, FAN	
	70021897	1	AIR INTAKE SENSOR	
	80374019	1	O-RING, (use with air intake sensor)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. ENGINE (SN 0160040413 to Present, Including 0160037824 and 0160038521)



PV1790

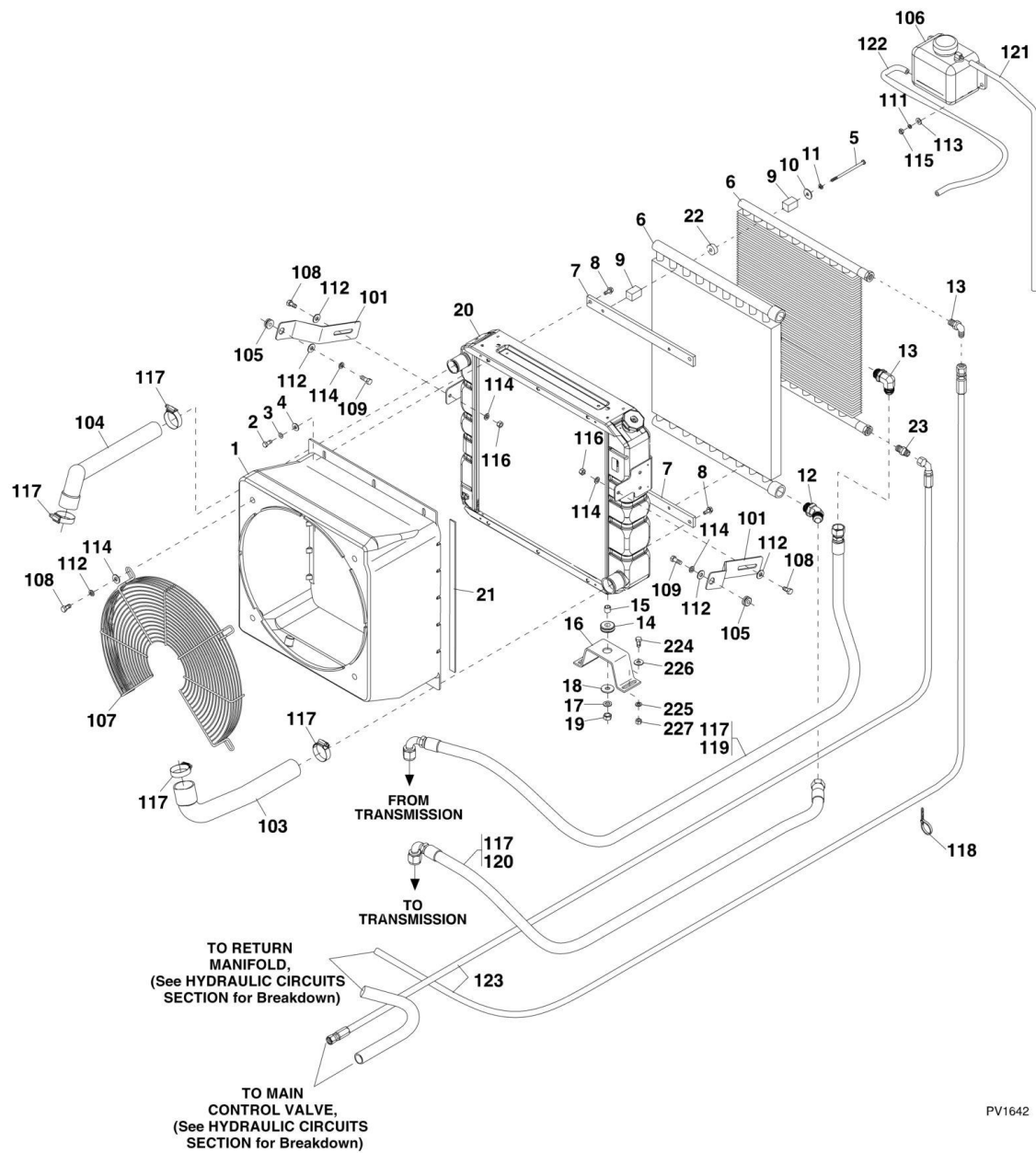
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. ENGINE (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001095708	1	CUMMINS ENGINE, 110 HP QSB4.5, (includes all items) (SN 0160040413 through 0160044029, Including 0160044121, Excluding 0160043949, 0160044016 and 0160044029)	E
	1001137645	1	CUMMINS ENGINE, 110 HP QSB4.5, (includes all items) (SN 0160044054 through 0160050734, Including 0160043949, 0160044016 and 160044029, Excluding 0160044121)	B
	1001147575	1	CUMMINS ENGINE, 110 HP QSB4.5, (includes all items) (SN 0160050882 to Present)	B
	70021793	1	VALVE COVER GASKET	
	70022633	1	FUEL PUMP	
	70022634	1	FLYWHEEL	
	70023736	1	RING GEAR, FLYWHEEL	
	70021796	1	ENGINE OIL COOLER	
	70022635	1	ENGINE OIL COOLER GASKET	
	70021798	1	OIL LEVEL DIPSTICK	
	70021799	1	DIPSTICK TUBE	
	70021800	1	LUBRICATION OIL PUMP	
	70021801	1	OIL PAN	
	70022636	1	OIL PAN GASKET	
	70021803	1	OIL PAN PLUG	
	70022637	1	OIL PAN PLUG GASKET	
	70021805	1	WATER PUMP	
	70021806	1	WATER PUMP GASKET	
	70021807	1	FAN BELT	
	70022638	1	INJECTOR	
	70021809	1	BELT TENSIONER	
	70022639	1	OIL FILLER CAP	
	70023287	1	ALTERNATOR	
	1322158	1	PULLEY, ALTERNATOR	
	70023289	1	ALTERNATOR SUPPORT	
	70023288	1	ALTERNATOR BRACE	
	70023286	1	MOUNTING SPACER	
	70022640	1	STARTER (Prior to SN 0160050882)	
	1001128594	1	STARTER (SN 0160050882 to Present)	
	70020356	1	THERMOSTAT	
	70020349	1	PRIMARY FUEL FILTER	
	70020348	1	SECONDARY FUEL FILTER	
	70022641	1	FUEL FILTER HEAD WITH FITTINGS	
	70020358	1	OIL FILTER	
	77384830	1	BAND CLAMP	
	91044340	1	EXHAUST OUTLET	
	70023443	1	ENGINE HEATER, (includes o-ring)	
	70023444	1	ENGINE HEATER CABLE	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. RADIATOR ASSEMBLY (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)



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SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. RADIATOR ASSEMBLY (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)

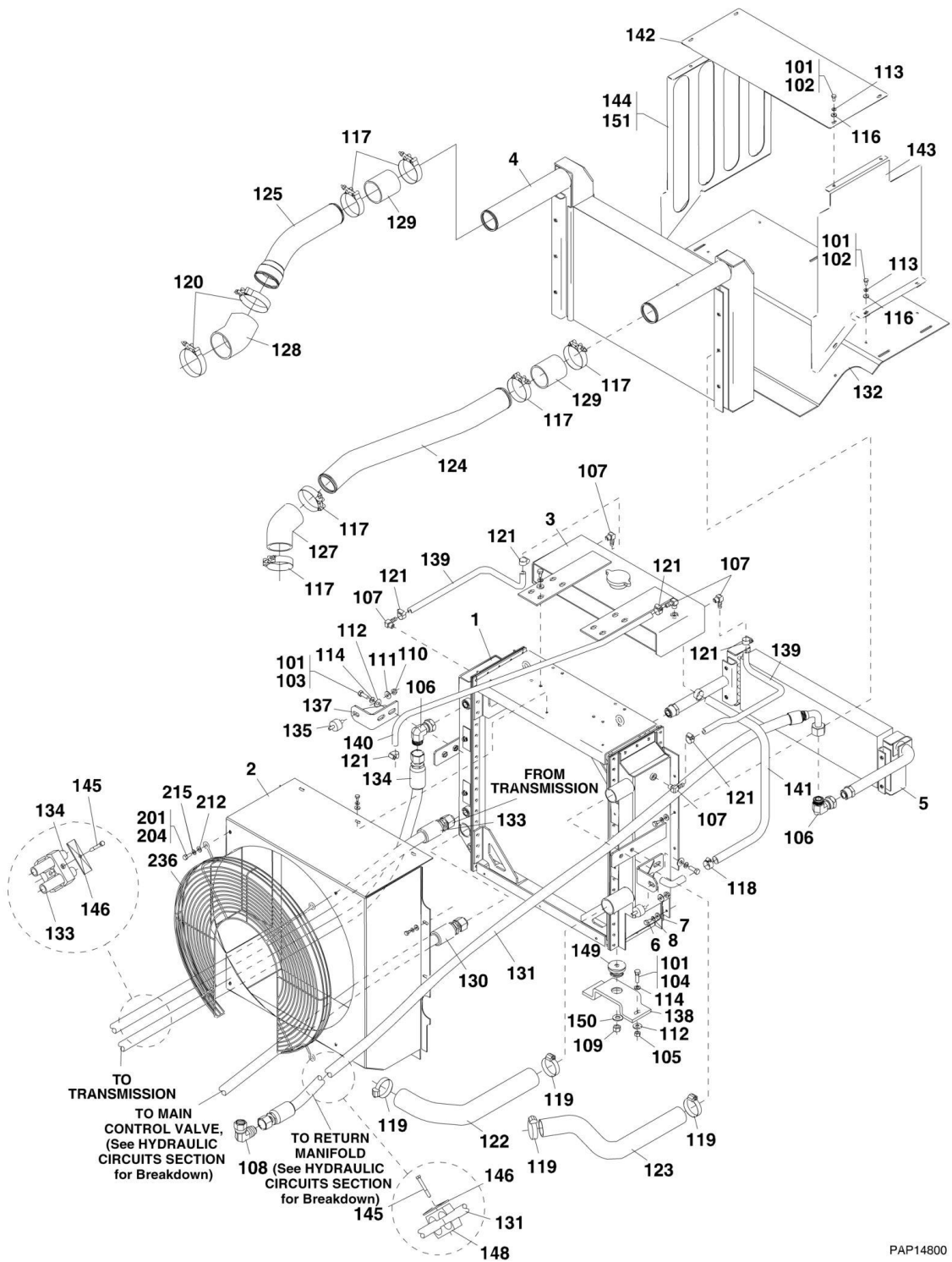
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	63231	1	RADIATOR ASSY, (includes items 1 thru 23)	G
1	10465024	1	FAN SHROUD	
2	10700102	6	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
3	10701358	6	STAR WASHER, 5/16	
4	10701403	6	FLAT WASHER, 5/16	
5	0641544	4	HEX HD CAPSCREW, 5/16-18X5-1/2	
6	8180315	2	TRANSMISSION OIL COOLER	
7	10136429	2	MOUNTING STRAP	
8	10705322	4	FLAT HD CAPSCREW, 5/16-18X3/4, GR5	
9	10726312	8	RUBBER MOUNTING BLOCK	
10	10701453	4	FENDER WASHER, 5/16	
11	10701309	4	LOCK WASHER, 5/16	
12	2220498	1	ELBOW, 45	
13	2220578	2	ELBOW, 90	
14	10724306	2	RUBBER GROMMET, 3/8	
15	10724305	2	BUSHING	
16	10265701	2	RADIATOR SUPPORT	
17	10701312	2	LOCKWASHER, 1/2	
18	10701279	2	FLAT WASHER, 1/2	
19	10701510	2	HEX NUT, 1/2-13	
20	1101083	1	RADIATOR	
20	8180318	1	RADIATOR CAP, 10PSI	
20	7029214	1	DRAIN COCK	
21	80383368	4 ft	GASKET TAPE	D
22	10133344	4	SPACER	
23	2220451	1	ADAPTER, (includes o-ring)	
	0274432	Ref	RADIATOR INSTALLATION, (not available to order, see items 101 thru 123 for service)	
101	0903204	2	RADIATOR SUPPORT, (tank side)	
103	2720546	1	LOWER RADIATOR HOSE	
104	2720547	1	UPPER RADIATOR HOSE	
105	10215845	2	RUBBER GROMMET	
106	10236491	1	COOLANT RECOVERY TANK	
106	7026726	1	TANK CAP	
107	10238470	1	FAN GUARD	
108	10700202	6	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
109	10700204	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
111	10701308	2	LOCKWASHER, 1/4	
112	10701310	8	LOCKWASHER, 3/8	
113	10701402	2	FLAT WASHER, 1/4	
114	10701404	8	FLAT WASHER, 3/8	
115	10701506	2	HEX NUT, 1/4-20	
116	10701508	2	HEX NUT, 3/8-16	
117	10710601	4	HOSE CLAMP, 1-3/4X2	
118	10720496	3	TIE CLAMP	
119	10732420	1	HOSE ASSY	
120	10837604	1	HOSE ASSY	
121	1016712935	1	HOSE, 5/16X35	
122	1016712947	1	HOSE, 5/16X47	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123	10837649	2	OIL COOLER HOSE	
224	10700205	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
225	10701310	4	LOCKWASHER, 3/8	
226	10701404	8	FLAT WASHER, 3/8	
227	10701508	4	HEX NUT, 3/8-16	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. RADIATOR ASSEMBLY (SN 0160040413 to Present, Including 0160037824 and 0160038521)



PAP14800

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. RADIATOR ASSEMBLY (SN 0160040413 to Present, Including 0160037824 and 0160038521)

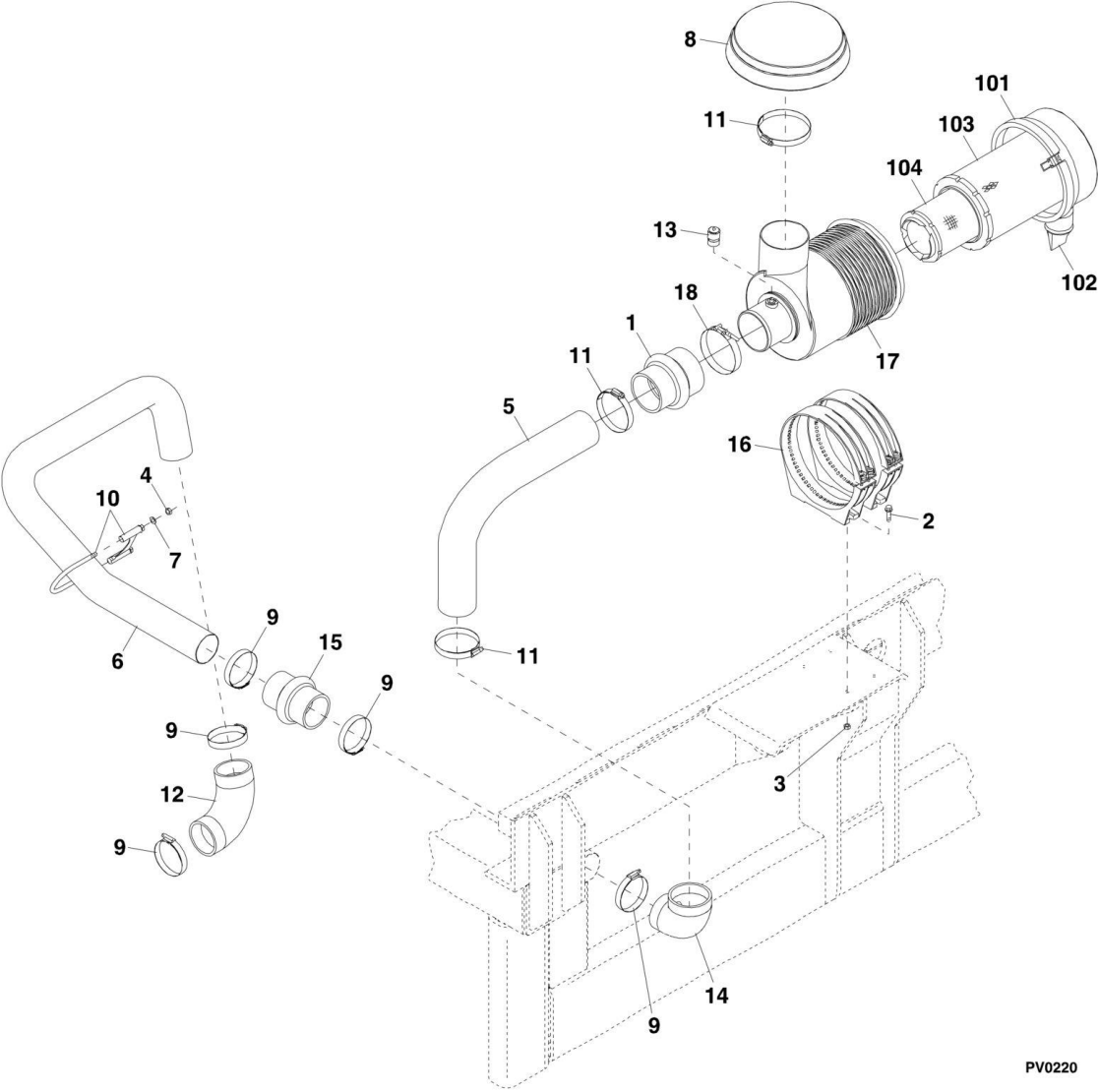
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098968	1	RADIATOR ASSEMBLY, (includes items 1 thru 8)	C
1	70022539	1	RADIATOR	
1	70022544	1	RADIATOR CAP, 15PSI	
2	70022540	1	SHROUD ASSEMBLY	
3	70022541	1	SURGE TANK ASSEMBLY	
4	70022542	1	CHARGE AIR COOLER	
5	70022543	1	HOT OIL COOLER	
6	N.S.S.	10	HEX HD BOLT, 5/16-18X3/4, GR5	
7	N.S.S.	10	FLAT WASHER, 5/16	H
8	N.S.S.	10	LOCKWASHER, 5/16	
	1001098955	Ref	RADIATOR INSTALLATION, (not available to order, see items 101 thru 151 for service)	
101	0100011	AR	LOCTITE 242	
102	0641406	15	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
103	0641608	4	HEX HD CAPSCREW, 3/8-16X1, GR5	
104	0641610	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
105	10701508	4	HEX NUT, 3/8-16	
106	2172112	2	ELBOW, 90, (includes o-ring)	
107	2180467	5	FITTING, 90	
108	2220655	1	ELBOW, 90	
109	3271805	2	HEX NUT, 1/2-13, GR8	
110	3311508	2	HEX NUT, 5/16-18	
111	4751500	2	FLAT WASHER, 5/16	
112	4751600	12	FLAT WASHER, 3/8	
113	4761400	15	LOCKWASHER, 1/4	
114	4761600	8	LOCKWASHER, 3/8	
116	4891400	15	WASHER, 1/4	
117	8405212	6	HEAVY DUTY BAND CLAMP	
118	8405007	2	GEAR CLAMP	
119	8405104	4	GEAR CLAMP	
120	8405306	2	T-BOLT CLAMP	
121	8410013	6	GEAR CLAMP	
122	1001098958	1	LOWER RADIATOR HOSE	
123	1001098959	1	UPPER RADIATOR HOSE	
124	1001098960	1	TUBE	
125	1001098961	1	TUBE	
127	1001098971	1	ELBOW, 45	
128	1001098973	1	ELBOW, 30	
129	1001099251	2	HOSE	
130	1001103383	1	HOSE ASSY	
131	1001103384	1	HOSE ASSY	
132	1001131588	1	INTAKE WELDMENT	
133	1001103393	1	HOSE ASSY	
134	1001103394	1	HOSE ASSY	
135	1001103961	2	ISOLATOR, UPPER	
137	1001103991	2	STABILIZER BRACKET	
138	1001103992	2	RADIATOR MOUNTING BRACKET	
139	1001105000	2	RADIATOR HOSE	
140	1001105001	1	RADIATOR HOSE	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
141	1001105002	1	RADIATOR HOSE	
142	1001113176	1	AIR BAFFLE TOP	
143	1001131582	1	LEFT BAFFLE PLATE	
144	1001131585	1	RIGHT BAFFLE PLATE	
145	8303757	2	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
146	8750025	2	COVER PLATE	
148	8750040	2	CLAMP SET	
149	1001114803	2	ISOLATER MOUNT	
150	4740274	4	WASHER	
151	90206196	AR	PVC VINYL EDGE TRIM	
201	0100011	AR	LOCTITE 242	
204	0641506	4	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
212	4711500	4	FLAT WASHER, 5/16	
215	4761500	4	LOCKWASHER, 5/16	
236	1001098963	1	FAN GUARD	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-9. AIR CLEANER INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)



PV0220

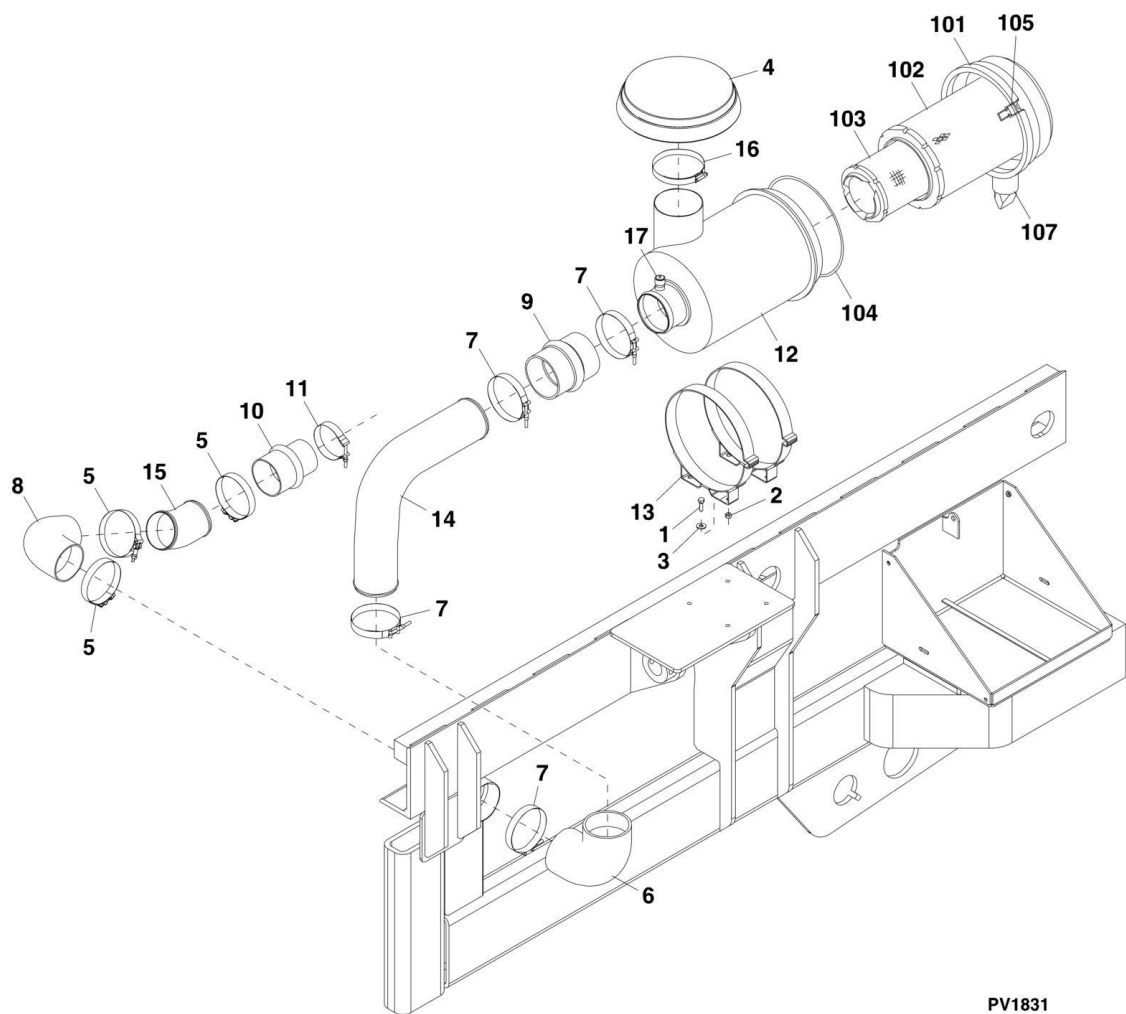
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-9. AIR CLEANER INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274409	Ref	AIR CLEANER INSTALLATION, (not available to order, see items 1 thru 18 for service)	E
1	0080269	1	RUBBER REDUCER HUMP	
2	0811510	4	SCREW, 5/16-18X1-1/4	
3	3271505	4	HEX LOCKNUT, 5/16-18	
4	3311602	2	HEX JAM NUT, 3/8-16	
5	4569244	1	INTAKE TUBE, (air cleaner to bulkhead)	
6	4569245	1	INTAKE TUBE, (bulkhead to engine)	
7	4791600	2	STAR WASHER, 3/8	
8	8273257	1	AIR INLET HOOD	
9	10710553	5	HOSE CLAMP	
10	10717169	1	MUFFLER CLAMP, 3IN	
11	10719267	3	HOSE CLAMP	
12	91083128	1	RUBBER ELBOW, 90	
13	77383154	1	SERVICE INDICATOR	
14	91083129	1	REDUCER ELBOW	
15	91403244	1	RUBBER HUMP, STRAIGHT	
16	10268516	2	AIR CLEANER MOUNTING BAND	
17	8273029	1	AIR CLEANER, 9IN, (includes items 101 thru 104)	B
18	77383790	1	BAND CLAMP	
101	91364023	1	COVER ASSY	
102	80373094	1	VACTUATOR	
103	1101312	1	MAIN ELEMENT, (outer)	
104	1101313	1	SAFETY ELEMENT, (inner)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-10. AIR CLEANER INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)



PV1831

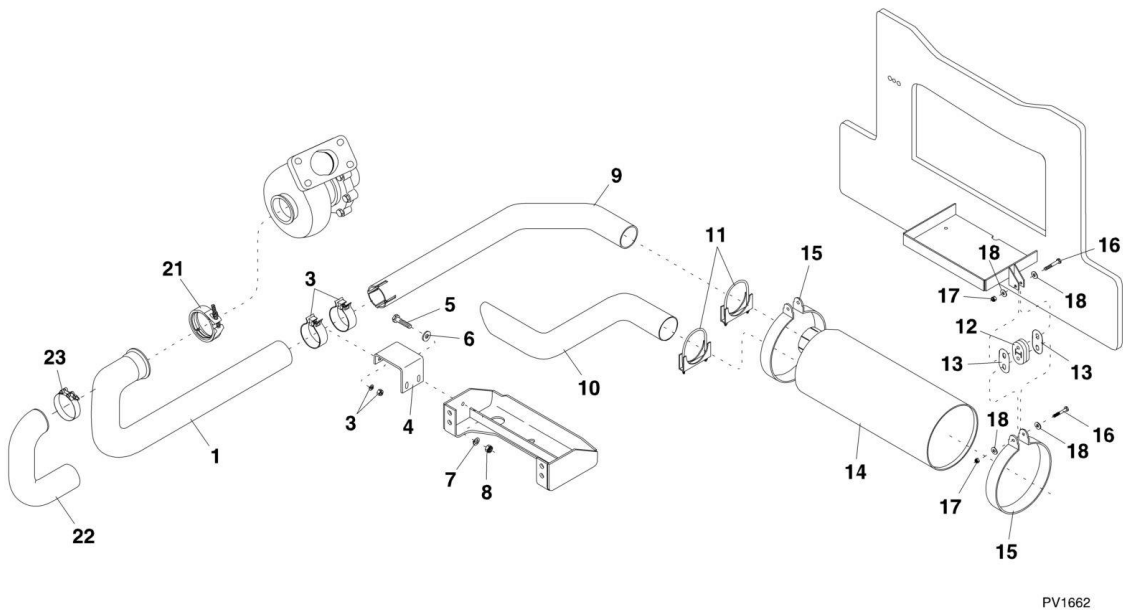
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-10. AIR CLEANER INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096080	Ref	10IN AIR CLEANER INSTALLATION, (not available to order, see items 1 thru 17 for service)	D
1	0641508	4	HEX HD CAPSCREW, 5/16-18X1, GR5	
2	3271505	4	HEX LOCKNUT, 5/16-18	
3	4751500	4	WIDE WASHER, 5/16	
4	8273257	1	AIR INLET HOOD	
5	8405307	3	T-BOLT CLAMP	
6	09523572	1	AIR INTAKE FITTING, 90	
7	77383790	4	HEAVY DUTY BAND CLAMP	
8	80293007	1	ELBOW, 90	
9	80973107	1	STRAIGHT HUMP COUPLING	
10	91403239	1	HOSE HUMP REDUCER	
11	8405305	1	BAND CLAMP	
12	1001091068	1	AIR CLEANER ASSY, 10IN, (includes items 101 thru 107)	A
13	1001091069	2	AIR CLEANER MOUNTING BAND	
14	1001096081	1	AIR INTAKE PIPE	
15	1001096082	1	AIR INTAKE PIPE	
16	10719267	1	HOSE CLAMP	
17	77383154	1	INDICATOR SERVICE	
101	80373090	1	DUST CUP COVER	
102	80373091	1	PRIMARY FILTER	
103	80373092	1	SAFETY FILTER	
104	80373093	1	GASKET COVER	
105	80373095	1	LATCH	
107	80373094	1	VACUATOR VALVE	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-11. EXHAUST INSTALLATION (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)



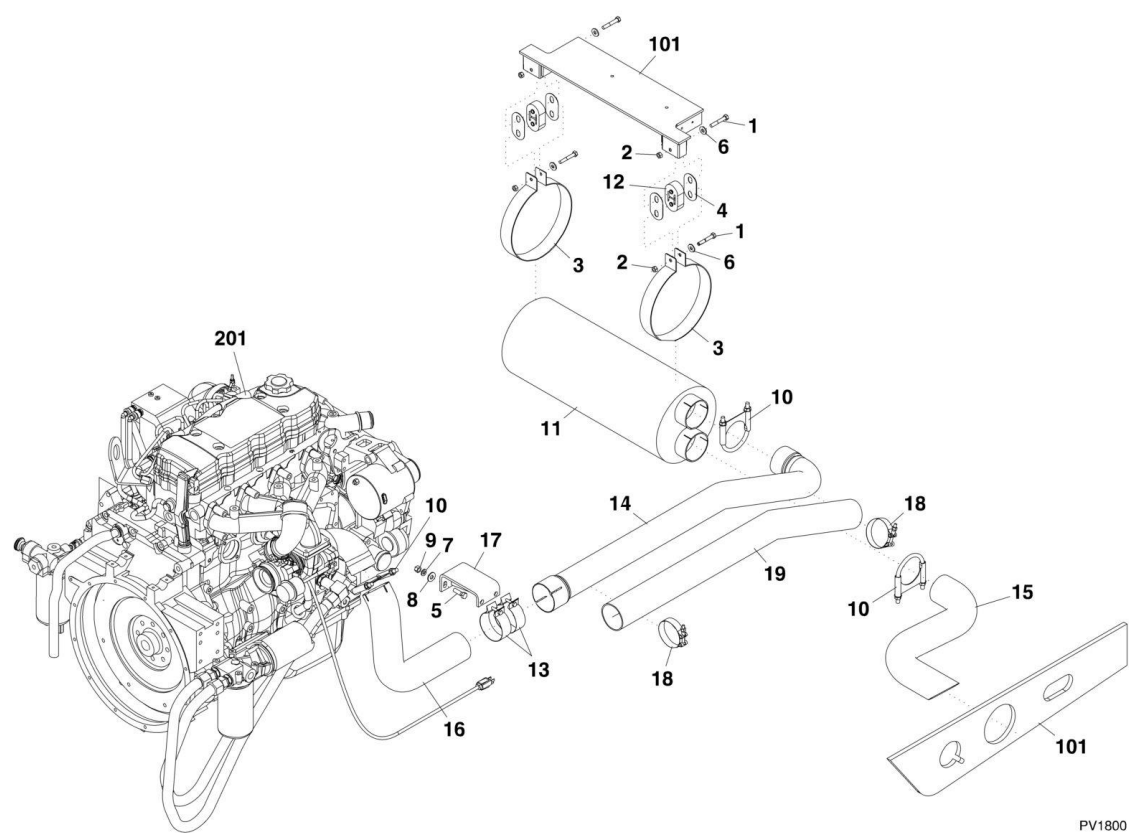
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-11. EXHAUST INSTALLATION (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10041066	Ref	EXHAUST INSTALLATION, (not available to order, see items 1 thru 23 for service)	AA
1	10165161	1	EXHAUST MANIFOLD PIPE	
3	10837475	2	EXHAUST SEAL CLAMP	
4	10136405	1	EXHAUST CLAMP BRACKET	
5	10700205	2	HEX HD CAPSCREW, 3/8-16X1-1/4	
6	10701404	2	FLAT WASHER, 3/8	
7	10701310	2	LOCKWASHER, 3/8	
8	10701508	2	HEX NUT, 3/8-16	
9	10136402	1	EXHAUST PIPE	
10	10136412	1	TAIL PIPE	
11	10717169	2	MUFFLER CLAMP	
12	10732982	2	RUBBER EXHAUST HANGER	
13	10139922	4	HANGER SUPPORT LINK	
14	10732697	1	MUFFLER	
15	10139876	2	MUFFLER MOUNTING RING, (includes one each of items 16 & 17)	
16	10700158	4	HEX HD CAPSCREW, 5/16-24X2	
17	10701680	4	HEX LOCKNUT, 5/16-24	
18	10701276	8	FLAT WASHER, 5/16	
21	10837750	1	EXHAUST PIPE CLAMP	
22	4100109	2	FIBER GLASS SLEEVE	
23	90028488	2	T-BOLT CLAMP	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-12. EXHAUST INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)



SECTION 4 - ENGINE AND ATTACHING PARTS

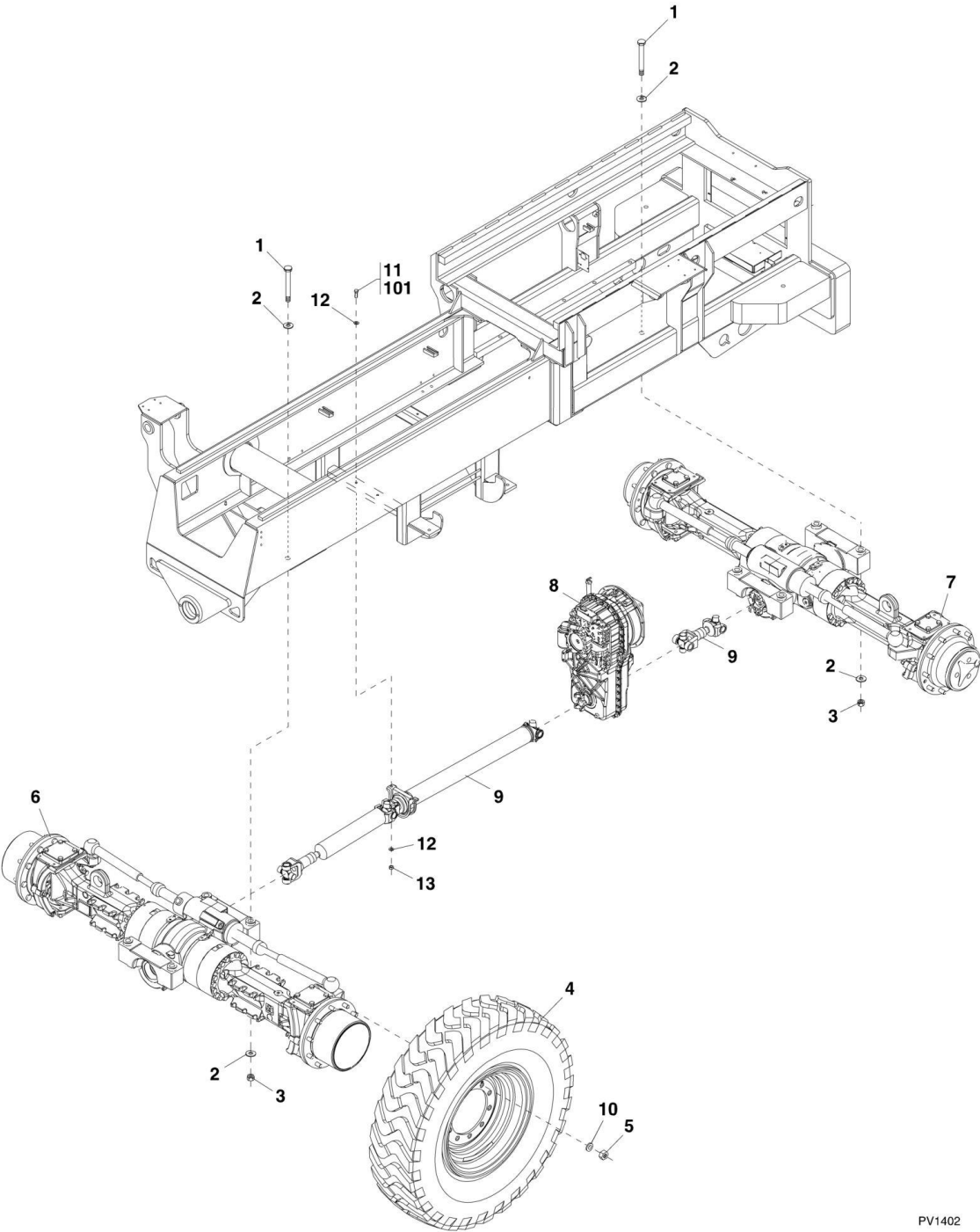
FIGURE 4-12. EXHAUST INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001097143	Ref	EXHAUST INSTALLATION, (not available to order, order items 1 thru 19 for service)	D
1	0651516	4	HEX HD CAPSCREW, 5/16-24X2, GR5	
2	3281505	4	HEX LOCKNUT, 5/16-24	
3	10139876	2	MOUNTING RING	
4	10139922	4	EXHAUST HANGER LINK	
5	0641610	2	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
6	10701276	4	HARDENED WASHER, 5/16	
7	4761600	2	LOCK WASHER, 3/8	
8	4751600	2	FLAT WASHER, 3/8	
9	10701508	2	HEX NUT, 3/8-16	
10	10717169	3	MUFFLER CLAMP	
11	10732697	1	MUFFLER ASSY	
12	10732982	2	RUBBER EXHAUST HANGER	
13	10837475	2	EXHAUST CLAMP	
14	1001097145	1	EXHAUST PIPE	
15	1001097146	1	TAIL PIPE	
16	1001097148	1	EXHAUST MANIFOLD PIPE	
17	1001097573	1	EXHAUST CLAMP BRACKET	
18	8405203	2	HEAVY DUTY BAND CLAMP	
19	1001101193	34 in	FIBER GLASS SLEEVE, (sold by the foot)	
101		Ref	MAIN FRAME, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
201		Ref	ENGINE ASSEMBLY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	

SECTION 5 - DRIVE TRAIN

SECTION 5 - DRIVE TRAIN

FIGURE 5-1. DRIVE TRAIN COMPONENTS



PV1402

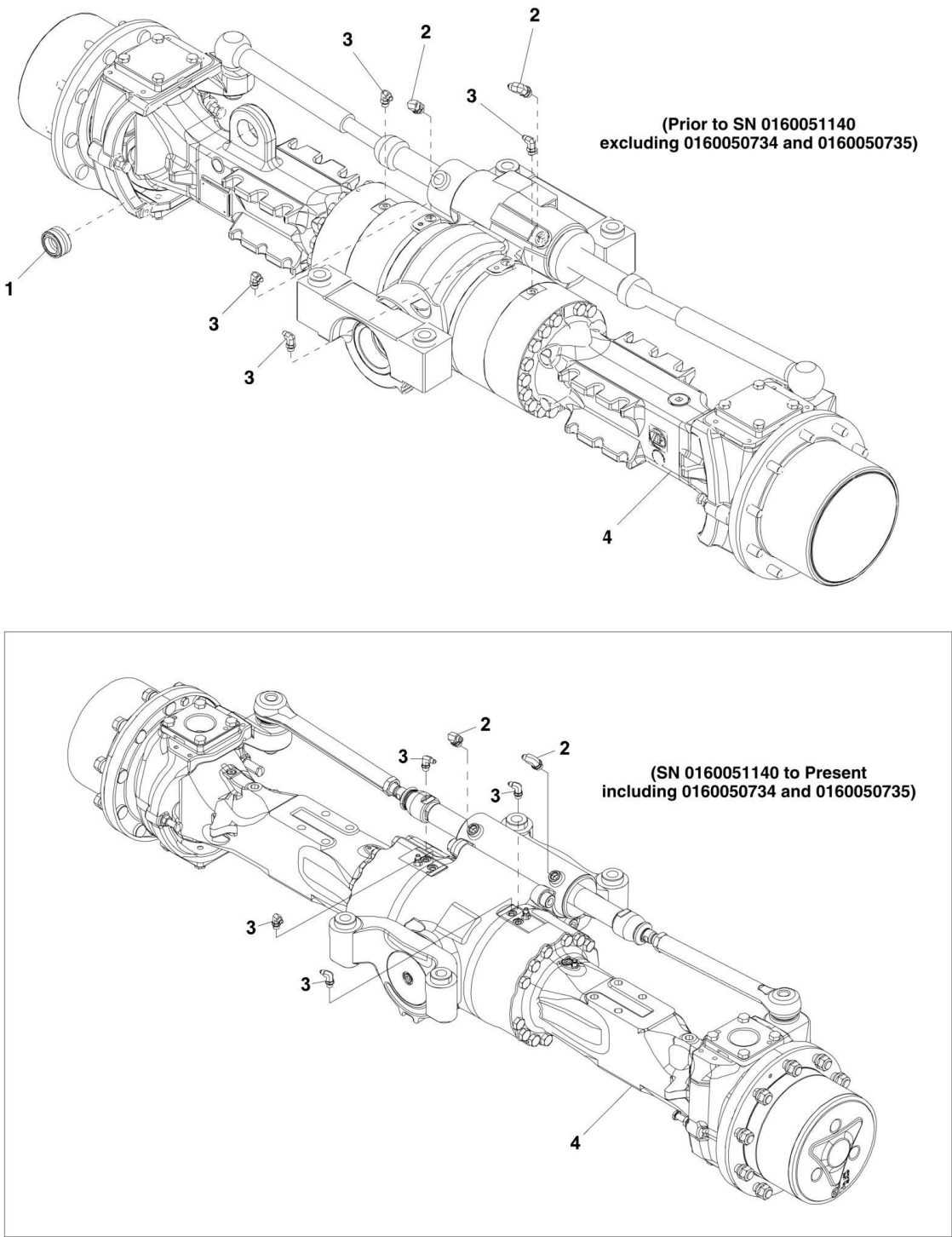
SECTION 5 - DRIVE TRAIN

FIGURE 5-1. DRIVE TRAIN COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10700941	8	HEX HD CAPSCREW, 1-8X7, GR8, (torque to 680 lb-ft)	
2	10701259	16	FLAT WASHER, 1	
3	3272601	8	HEX NUT, 1-8	
4		Ref	TIRE AND RIM ASSY, (See TIRES AND RIMS for Breakdown)	
5	8786572	40	LUG NUT, (torque to 450-470 lb-ft), (not required with Firestone 400/75-28)	
5	91403193	40	WHEEL NUT, (torque to 430-470 lb-ft), (if equipped with Firestone 400/75-28)	
6		Ref	FRONT AXLE ASSY, (See FRONT AXLE ASSEMBLY for Breakdown)	
7		Ref	REAR AXLE ASSY, (See REAR AXLE ASSEMBLY for Breakdown)	
8		Ref	ZF TRANSMISSION, (See REAR AXLE ASSEMBLY for Breakdown)	
9		Ref	DRIVE SHAFTS, (See DRIVE SHAFT for Breakdown)	
10	8786573	40	WASHER, (not required with Firestone 400/75-28)	
11	0641710	2	HEX HD CAPSCREW, 7/16-14X2, GR5	
12	4711700	4	FLAT WASHER, 7/16	
13	3311705	2	LOCKNUT, 7/16-14	
101	0100011	AR	LOCTITE 242	

SECTION 5 - DRIVE TRAIN

FIGURE 5-2. FRONT AXLE ASSEMBLY



PAP27920

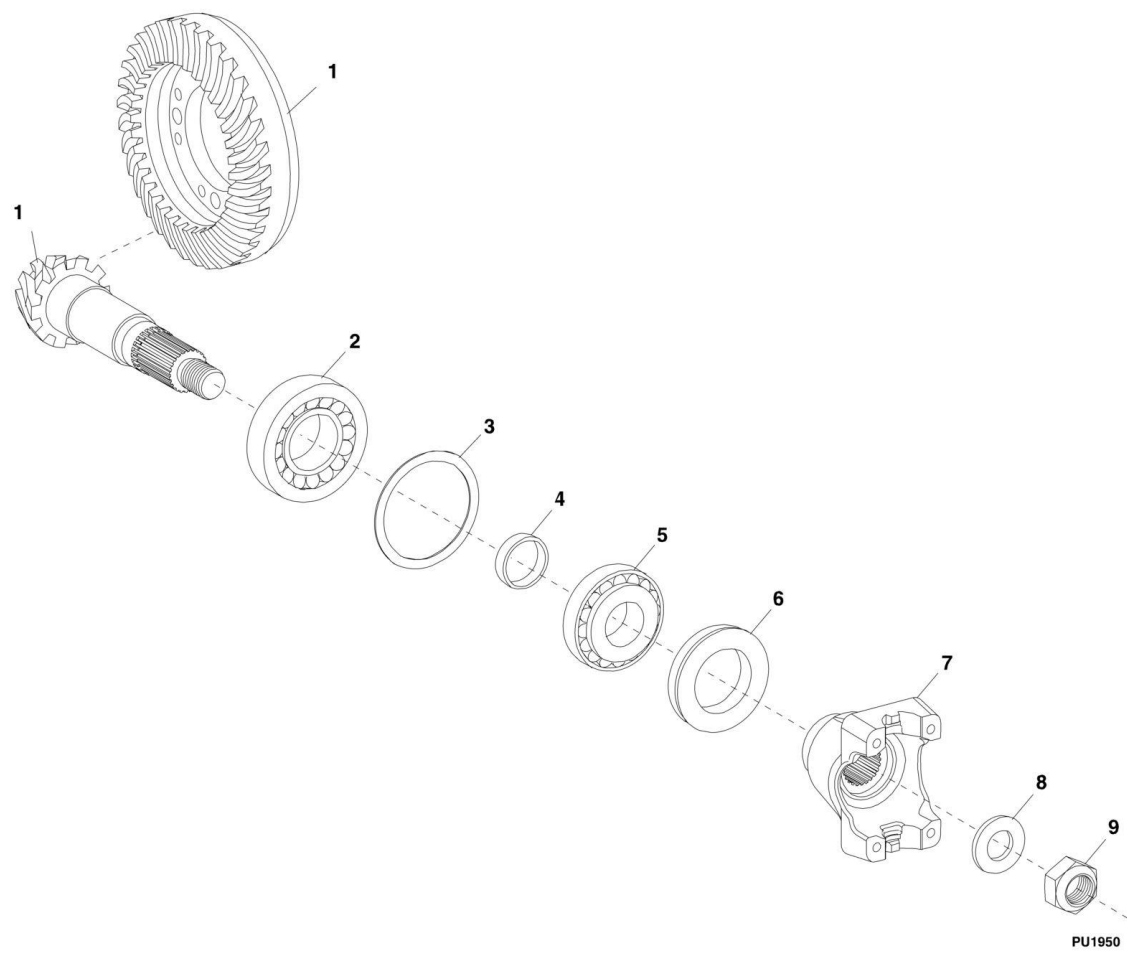
SECTION 5 - DRIVE TRAIN

FIGURE 5-2. FRONT AXLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0280191	1	FRONT AXLE ASSY, (includes all items) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	D
	1001107570	1	FRONT AXLE ASSY, (includes all items) (SN 0160051140 to Present, Including 0160050734 and 0160050735)	A
1	8050001	1	SELF ALIGN BEARING	
2	2220628	2	ELBOW, 90	
3	2220472	4	ELBOW, 90	
4	0280189	1	FRONT AXLE (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	F
4	1001107080	1	FRONT AXLE (SN 0160051140 to Present, Including 0160050734 and 0160050735)	C
4		Ref	FRONT AXLE - INPUT, (See FRONT AXLE – INPUT for Breakdown)	E
4		Ref	FRONT AXLE - LIMITED SLIP DIFFERENTIAL, (See FRONT AXLE - LIMITED SLIP DIFFERENTIAL for Breakdown)	
4		Ref	FRONT AXLE - AXLE CASING, (See FRONT AXLE – CASING for Breakdown)	
4		Ref	FRONT AXLE - M-DISC BRAKE, (See FRONT AXLE - M-DISC BRAKE for Breakdown)	
4		Ref	FRONT AXLE - BRAKE, (See FRONT AXLE – BRAKE for Breakdown)	
4		Ref	FRONT AXLE - JOINT HOUSING, (See FRONT AXLE - JOINT HOUSING for Breakdown)	
4		Ref	FRONT AXLE - PLANETARY DRIVE, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-3. FRONT AXLE - INPUT



SECTION 5 - DRIVE TRAIN

FIGURE 5-3. FRONT AXLE - INPUT

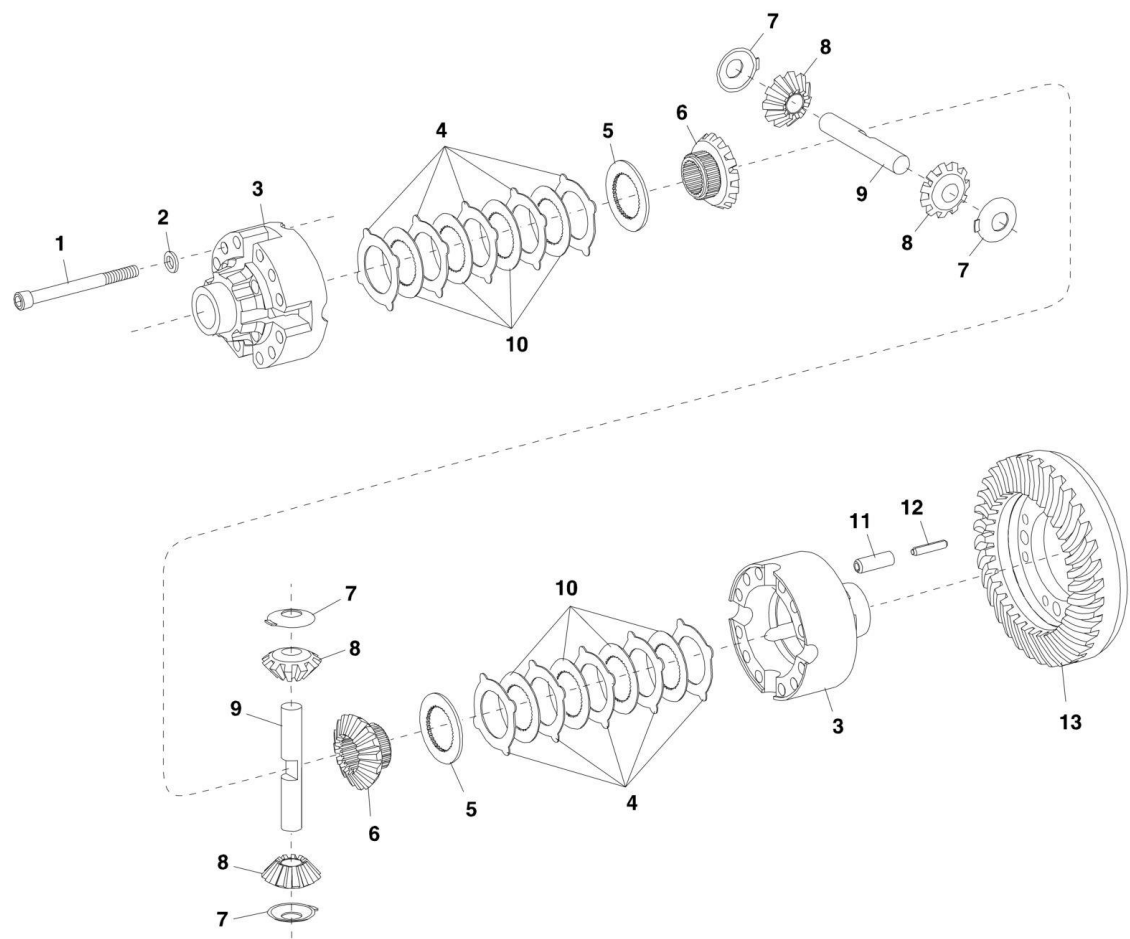
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7028967	1	GEAR SET BEVEL	
2	1321213	1	ROLLER BEARING	
3	1321187	AR	SHIM, 1.5mm	
3	8035871	AR	SHIM, 0.9mm	
3	8035872	AR	SHIM, 0.95mm	
3	8035873	AR	SHIM, 1.0mm	
3	1321186	AR	SHIM, 1.05mm	
3	8035874	AR	SHIM, 1.1mm	
3	8035875	AR	SHIM, 1.15mm	
3	1321185	AR	SHIM, 1.2mm	
3	8035876	AR	SHIM, 1.25mm	
3	8035877	AR	SHIM, 1.3mm	
3	1321189	AR	SHIM, 0.7mm	
3	8035878	AR	SHIM, 0.75mm	
3	8035879	AR	SHIM, 0.8mm	
3	1321190	AR	SHIM, 0.85mm	
4	8035881	AR	RING, 11.30mm	
4	8035882	AR	RING, 11.33mm	
4	8035883	AR	RING, 11.36mm	
4	8035884	AR	RING, 11.39mm	
4	8035885	AR	RING, 11.42mm	
4	8035886	AR	RING, 11.45mm	
4	1321196	AR	RING, 11.48mm	
4	8035887	AR	RING, 11.51mm	
4	8035888	AR	RING, 11.54mm	
4	8035889	AR	RING, 11.57mm	
4	8035890	AR	RING, 11.60mm	
4	8035891	AR	RING, 11.63mm	
4	1321197	AR	RING, 11.66mm	
4	8035892	AR	RING, 11.69mm	
4	8035893	AR	RING, 11.72mm	
4	8035894	AR	RING, 11.75mm	
4	8035895	AR	RING, 11.78mm	
4	8035896	AR	RING, 11.81mm	
4	1321198	AR	RING, 11.84mm	
4	8035897	AR	RING, 11.87mm	
4	8035898	AR	RING, 11.90mm	
4	8035899	AR	RING, 11.93mm	
4	8035900	AR	RING, 11.96mm	
4	8035901	AR	RING, 11.99mm	
4	8035902	AR	RING, 12.02mm	
4	1321199	AR	RING, 12.05mm	
4	8035903	AR	RING, 12.08mm	
4	8035904	AR	RING, 12.11mm	
4	8035905	AR	RING, 12.14mm	
4	8035906	AR	RING, 12.17mm	
4	8036841	AR	RING, 12.20mm	
4	8035907	AR	RING, 12.23mm	
4	8035908	AR	RING, 12.26mm	
4	8035909	AR	RING, 12.29mm	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	8035910	AR	RING, 12.32mm	
4	8035911	AR	RING, 12.35mm	
4	1321201	AR	RING, 12.38mm	
4	8035912	AR	RING, 11.27mm	
4	1321204	AR	RING, 11.24mm	
4	8035913	AR	RING, 11.21mm	
4	8035914	AR	RING, 11.18mm	
4	8035915	AR	RING, 11.15mm	
4	8035916	AR	RING, 11.12mm	
4	1321203	AR	RING, 11.09mm	
4	8035917	AR	RING, 11.06mm	
4	8035918	AR	RING, 11.03mm	
4	8035919	AR	RING, 11.00mm	
4	8035920	AR	RING, 10.97mm	
4	1321202	AR	RING, 10.94mm	
5	1321212	1	ROLLER BEARING	
6	1321210	1	COMBINATION RING	
7	1321248	1	END YOKE	
8	1321194	1	WASHER	
9	8035921	1	HEXAGON NUT	

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FIGURE 5-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL



PU1970

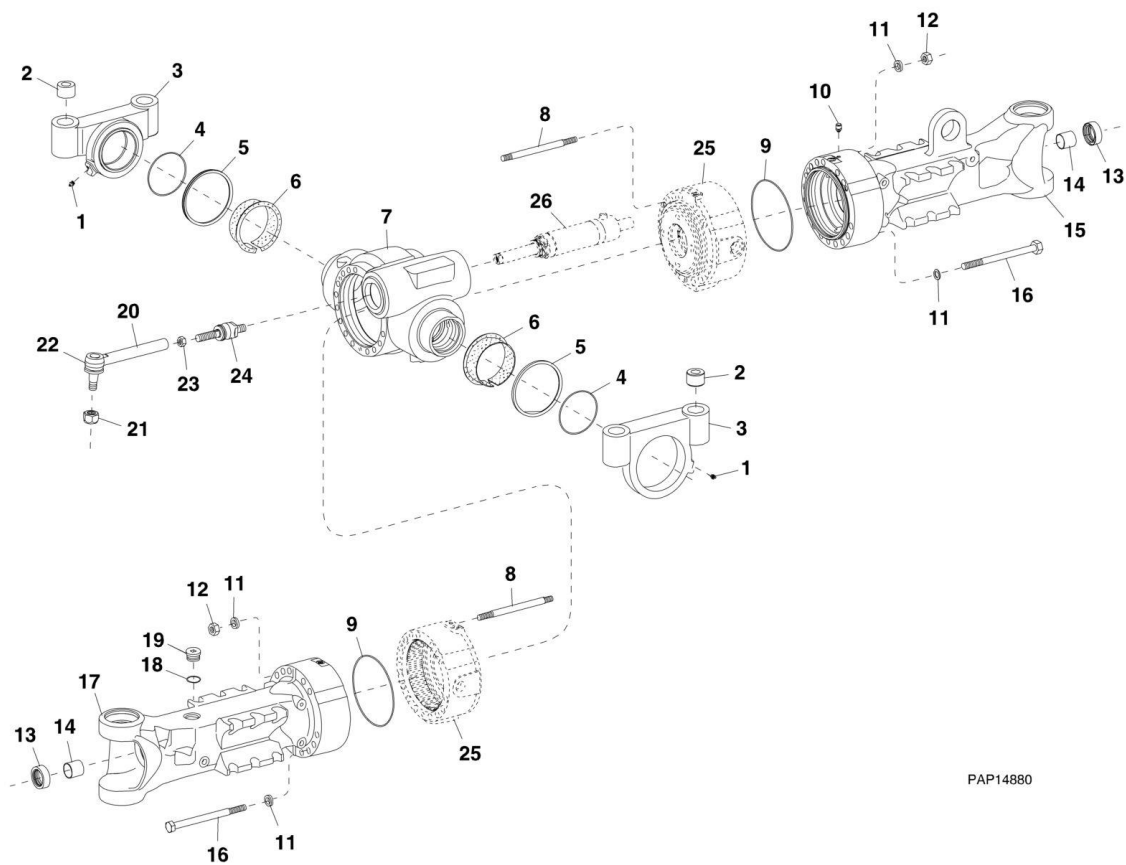
SECTION 5 - DRIVE TRAIN

FIGURE 5-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7027230	1	LIMITED SLIP DIFFERENTIAL ASSY, (includes items 1 thru 12)	
1	8035923	12	CAPSCREW	
2	1321184	12	WASHER	
3	1321215	1	DIFFERENTIAL CASE	
4	1321219	10	O. CLUTCH DISC, 1.2mm	
4	1321220	10	O. CLUTCH DISC, 1.3mm	
4	1321221	10	O. CLUTCH DISC, 1.4mm	
5	1321217	2	PRESSURE DISC	
6	7027225	2	AXLE BEVEL GEAR	
7	1319415	4	THRUST WASHER	
8	8036753	4	DIFFERENTIAL BEVEL GEAR	
9	1321225	2	DIFFERENTIAL AXLE	
10	1321218	8	I. CLUTCH DISC	
11	1321153	4	SLOTTED PIN	
12	1321154	4	SLOTTED PIN	
13		Ref	GEAR SET BEVEL, (See FRONT AXLE – INPUT for Breakdown)	

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FIGURE 5-5. FRONT AXLE - AXLE CASING



PAP14880

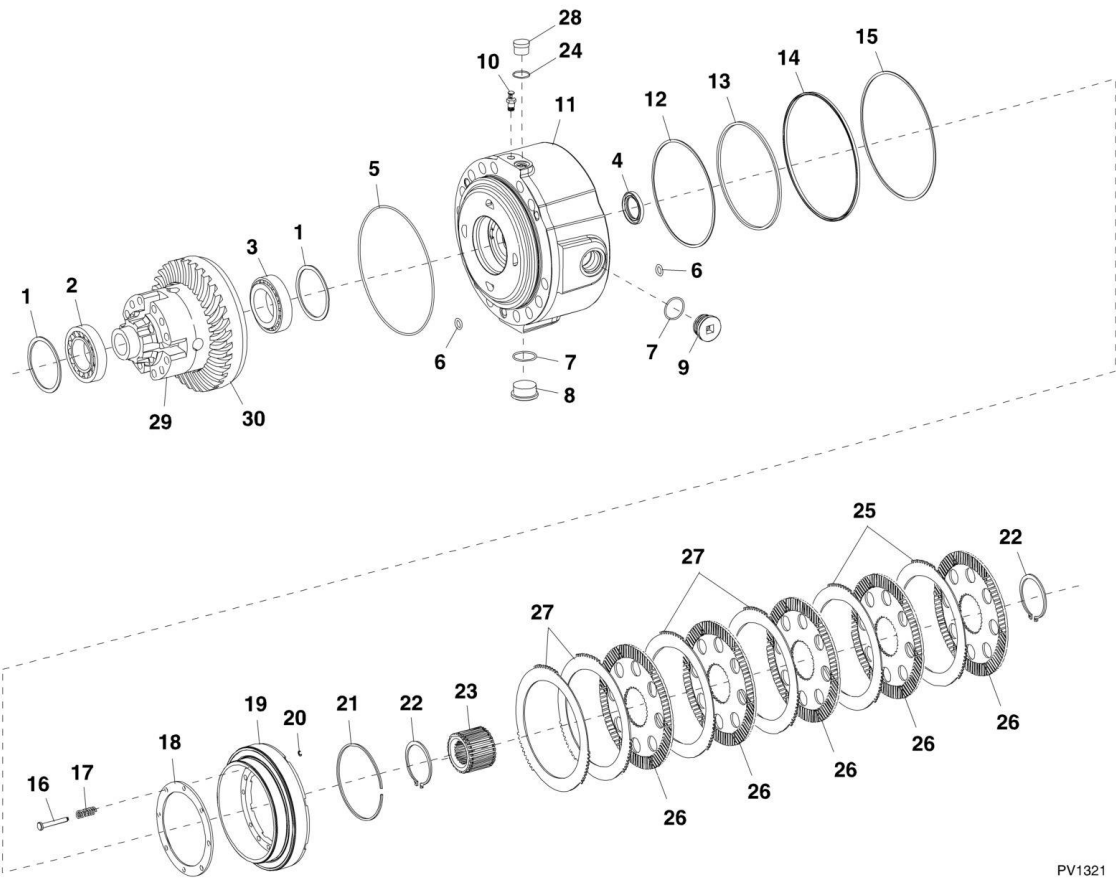
SECTION 5 - DRIVE TRAIN

FIGURE 5-5. FRONT AXLE - AXLE CASING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319423	2	GREASE FITTING	
2	1319441	4	CENTERING BUSHING	
3	8035933	2	BRACKET	
4	1319439	2	O-RING	
5	1319440	2	V-RING	
6	8036419	2	FLANGE BUSHING	
7	7027227	NLA	AXLE DRIVE HOUSING, (no longer available, order 70021111 for replacement)	
7	70021111	1	AXLE DRIVE HOUSING	
8	8036313	6	STUD	
9	1319425	2	O-RING	
10	1319436	1	VENT VALVE	
11	8036312	30	WASHER, (only used with 7027227 axle drive housing)	
12	1319429	8	HEX NUT	
13	7027211	2	SHAFT SEAL	
14	1319433	2	BUSHING	
15	8035924	1	RIGHT FRONT AXLE CASING	
16	8035927	30	HEX SCREW, (used with 7027227 axle drive housing)	
16	8035927	28	HEX SCREW, (used with 70021111 axle drive housing)	
17	8035925	1	LEFT FRONT AXLE CASING	
18	8036331	1	O-RING	
19	1319506	1	SCREW PLUG	
20	1321148	2	TRACK ROD, (includes items 21 thru 24)	
21	8036758	1	LOCKING NUT	
22	8036756	1	BALL JOINT W/PIPE COUPLING	
23	8036759	1	HEX NUT	
24	8036757	1	AXIAL JOINT COUPLING	
25		Ref	BRAKE HOUSING, (See FRONT AXLE - M-DISC BRAKE for Breakdown)	
26		Ref	STEERING CYLINDER, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)	

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FIGURE 5-6. FRONT AXLE - M-DISC BRAKE



PV1321

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FIGURE 5-6. FRONT AXLE - M-DISC BRAKE

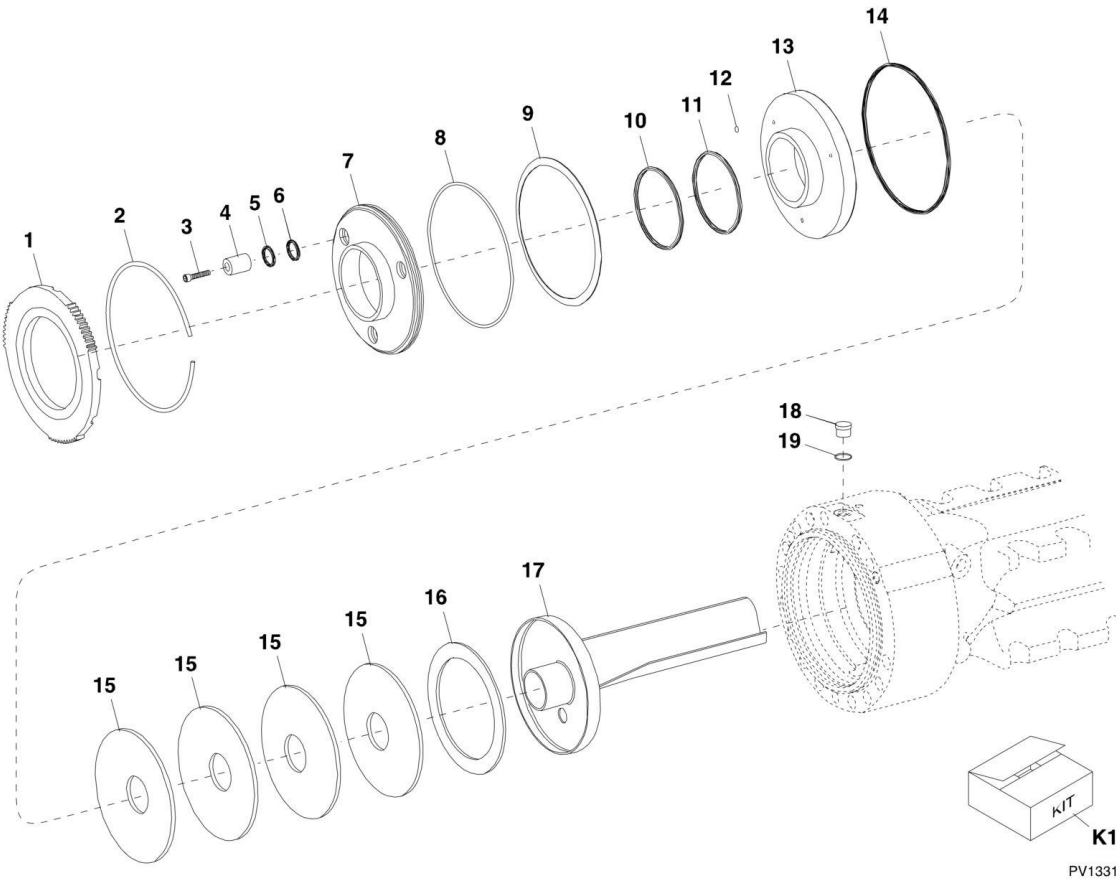
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319531	AR	SHIM, 0.1mm	
1	8035945	AR	SHIM, 0.15mm	
1	1319530	AR	SHIM, 0.2mm	
1	8035946	AR	SHIM, 0.25mm	
1	1319529	AR	SHIM, 0.3mm	
1	8035947	AR	SHIM, 0.35mm	
1	8035951	AR	SHIM, 0.4mm	
1	1319543	AR	SHIM, 0.45mm	
1	1319527	AR	SHIM, 0.5mm	
1	1321158	AR	SHIM, 0.55mm	
1	1319526	AR	SHIM, 0.6mm	
1	1319532	AR	SHIM, 0.65mm	
1	1319533	AR	SHIM, 0.7mm	
1	1319534	AR	SHIM, 0.75mm	
1	1319525	AR	SHIM, 0.8mm	
1	1319535	AR	SHIM, 0.85mm	
1	1319536	AR	SHIM, 0.9mm	
1	1319537	AR	SHIM, 0.95mm	
1	1319524	AR	SHIM, 1.0mm	
1	1319545	AR	SHIM, 1.05mm	
1	1319538	AR	SHIM, 1.10mm	
1	1319539	AR	SHIM, 1.15mm	
1	1319523	AR	SHIM, 1.20mm	
1	1319540	AR	SHIM, 1.25mm	
1	1319541	AR	SHIM, 1.30mm	
1	1319542	AR	SHIM, 1.35mm	
1	1319522	AR	SHIM, 1.40mm	
1	1319521	AR	SHIM, 1.45mm	
1	1319520	AR	SHIM, 1.50mm	
1	1319519	AR	SHIM, 1.55mm	
1	1319518	AR	SHIM, 1.60mm	
1	1319517	AR	SHIM, 1.65mm	
1	1319510	AR	SHIM, 2.0mm	
1	1321159	AR	SHIM, 1.47mm	
1	8035948	AR	SHIM, 1.63mm	
1	1319515	AR	SHIM, 1.75mm	
1	1319516	AR	SHIM, 1.70mm	
1	1319514	AR	SHIM, 1.80mm	
1	1319513	AR	SHIM, 1.85mm	
1	1319512	AR	SHIM, 1.90mm	
1	1319511	AR	SHIM, 1.95mm	
2	8036445	2	ROLLER BEARING	
3	8036447	2	ROLLER BEARING	
4	8036444	2	SHAFT SEAL	
5	1319425	2	O-RING	
6	1319491	12	O-RING	
7	8036331	4	O-RING	
8	1319431	2	SCREW PLUG	
9	1319506	2	SCREW PLUG	
10	1319505	2	VENT VALVE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
11	8035936	NLA	BRAKE HOUSING, (right side), (Prior to Axle SN 679304), (no longer available, see note, order 70020483 for replacement)	
11	70020483	1	BRAKE HOUSING, (right side), (Axle SN 679304 to Present)	
11	8035939	NLA	BRAKE HOUSING, (left side), (Prior to Axle SN 679304), (no longer available, see note, order 70020484 for replacement)	
11	70020484	1	BRAKE HOUSING, (left side), (Axle SN 679304 to Present)	
12	1321151	2	SUPPORT RING	
13	1321162	2	U-RING	
14	1321163	2	U-RING	
15	1321152	2	SUPPORT RING	
16	1319496	16	PIN	
17	1319497	16	COMPRESSION SPRING	
18	8036305	2	WASHER	
19	8036304	2	PISTON	
20	1319499	16	CRESCENT RING	
21	1319504	2	SNAP RING	
22	10731949	4	RETAINING RING	
23	1321174	2	DISC CARRIER, (Prior to Axle SN 823786)	
23	70020409	1	DISC CARRIER, (Axle SN 823786 to Present)	
24	7027217	2	O-RING	
25	1319500	4	O. CLUTCH DISC, 2.0mm, (Prior to Axle SN 679304)	
25	70020485	4	O. CLUTCH DISC, 2.0mm, (Axle SN 679304 to present)	
25	1319501	4	O. CLUTCH DISC, 2.5mm, (Prior to Axle SN 679304)	
25	70020486	4	O. CLUTCH DISC, 2.5mm, (Axle SN 679304 to Present)	
25	1319502	4	O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679304)	
25	70020487	4	O. CLUTCH DISC, 3.0mm, (Axle SN 679304 to Present)	
26	1321150	10	I. CLUTCH DISC, (Prior to Axle SN 823786)	
26	70020408	5	I. CLUTCH DISC, (Axle SN 823786 to Present)	
27	1319502	8	O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679304)	
27	70020487	8	O. CLUTCH DISC, 3.0mm, (Axle SN 679304 to Present)	
28	1319666	2	SCREW PLUG	
29		Ref	LIMITED SLIP DIFFERENTIAL, (See FRONT AXLE - LIMITED SLIP DIFFERENTIAL for Breakdown)	
30		Ref	GEAR SET BEVEL, (See FRONT AXLE – INPUT for Breakdown)	
N1	Note	Ref	PARTS ARE NO LONGER AVAILABLE; ORDER BRAKE HOUSINGS 70020483 & 70020484, QUANTITY REQUIRED OF OUTER DISCS 70020485, 70020486 & 70020487, QUANTITY 2 OF 70020413 END PLATES.	

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FIGURE 5-7. FRONT AXLE - BRAKE



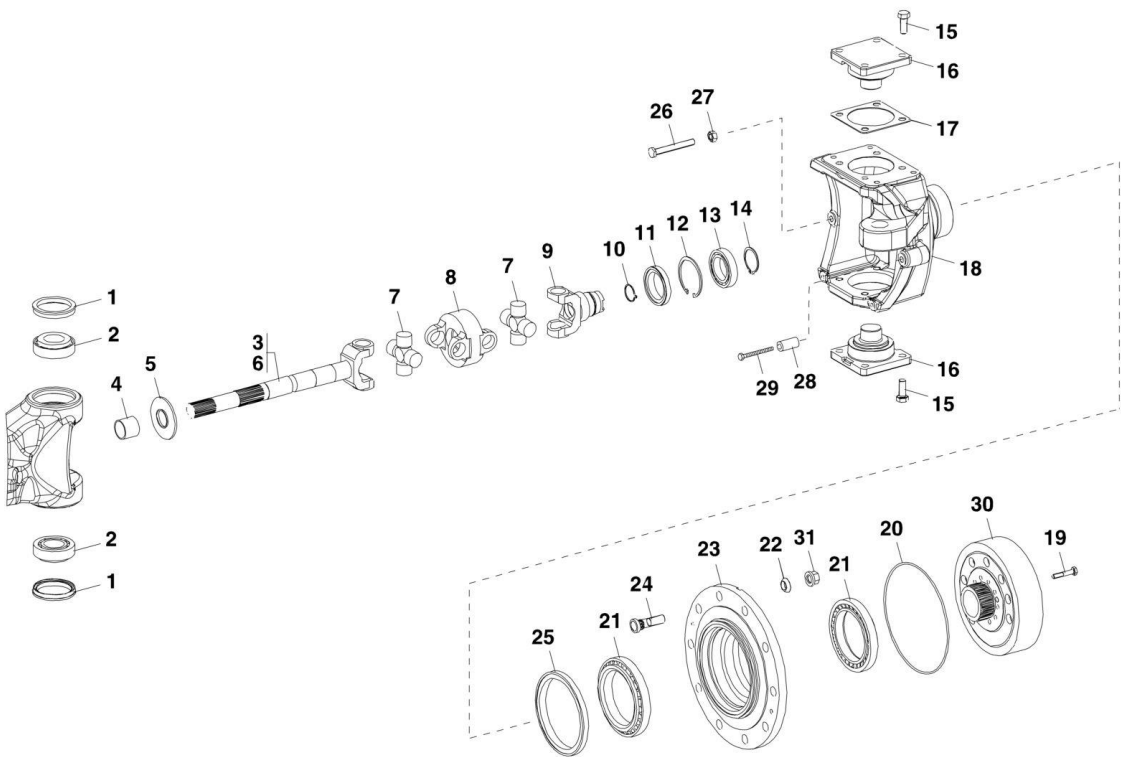
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FIGURE 5-7. FRONT AXLE - BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036848	2	END SHIM, (Prior to Axle SN 679304)	
1	70020413	2	END SHIM, (Axle SN 679304 to Present)	
2	1321206	2	SNAP RING	
3	8036321	6	CAP SCREW	
4	1321244	6	PRESSURE PIN	
5	8036862	6	O-RING	
6	8036861	6	U-RING	
7	8036849	2	SEALING WASHER	
8	8036320	2	O-RING	
9	1321208	2	CUP SPRING	
10	8036855	2	BACK-UP RING	
11	8036854	2	U-RING	
12	8036859	6	BACK-UP RING	
13	7027212	2	PISTON	
14	8036852	2	U-RING	
15	1321207	8	CUP SPRING	
16	8035958	2	SPACING WASHER	
17	8036856	2	OIL DAM	
18	1319666	2	SCREW PLUG	
19	7027217	2	O-RING	
K1	7029104	AR	BRAKE UPGRADE KIT, (Prior to Axle SN 679304), (contains quantity of 1 each of items 1, 2, 7 thru 11, 13, 14, 17; quantity of 3 each of items 3 thru 6, 12 and quantity of 1 of 1319425 o-ring)	

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FIGURE 5-8. FRONT AXLE - JOINT HOUSING



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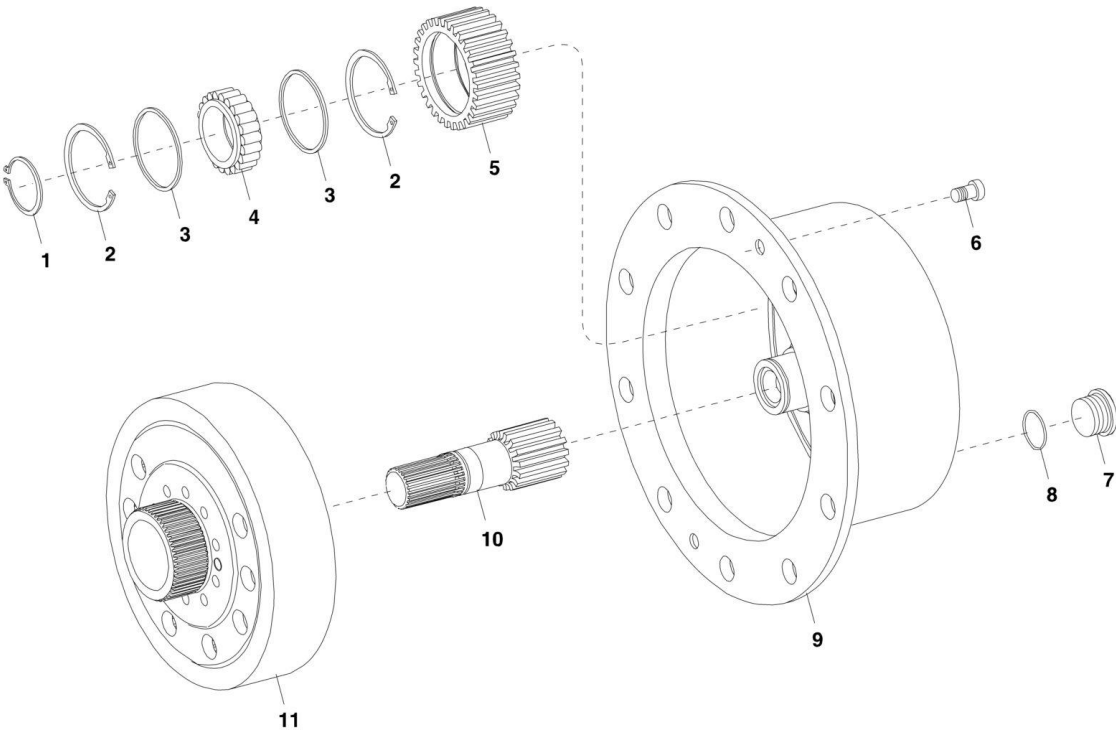
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FIGURE 5-8. FRONT AXLE - JOINT HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319447	4	SHAFT SEAL	
2	1319445	4	ROLLER BEARING	
3	1321175	2	DRIVESHAFT UNIVERSAL COUPLING, (includes items 4 thru 9)	
4	8035973	1	BUSHING	
5	8035974	1	SCREENSHEET	
6	8035972	1	JOINT COUPLING FORK	
7	8035970	1	JOINT FORK, (Prior to Axle SN 755298)	
7	70021790	1	JOINT FORK, (Axle SN 755298 to Present)	
8	8035969	1	CENTRAL PIECE, (Prior to Axle SN 755298)	
8	70021789	1	CENTRAL PIECE, (Axle SN 755298 to Present)	
9	8035971	1	JOINT FORK	
10	1321228	2	RETAINING RING	
11	7028977	2	SHAFT SEAL	
12	1319210	2	RETAINING RING	
13	1321157	2	BALL BEARING	
14	80304405	2	RETAINING RING	
15	1319464	16	HEX SCREW	
16	1319462	4	BEARING PIN	
17	1321249	AR	SHIM, 0.2mm	
17	8035959	AR	SHIM, 0.3mm	
17	8035960	AR	SHIM, 0.4mm	
17	8035961	AR	SHIM, 0.5mm	
17	8035962	AR	SHIM, 0.6mm	
17	1321250	AR	SHIM, 0.7mm	
17	8035963	AR	SHIM, 0.8mm	
17	8035964	AR	SHIM, 1.0mm	
17	8035965	AR	SHIM, 1.2mm	
17	8035966	AR	SHIM, 1.4mm	
17	1321251	AR	SHIM, 1.6mm	
17	8035967	AR	SHIM, 1.8mm	
17	8035968	AR	SHIM, 2.0mm	
18	1321256	1	JOINT HOUSING, (right side)	
18	1321257	1	JOINT HOUSING, (left side)	
19	8036866	20	HEX SCREW	
20	1321155	2	O-RING	
21	1319472	4	ROLLER BEARING	
22		Ref	WASHER, (See DRIVE TRAIN COMPONENTS for Breakdown)	
23	1321254	2	HUB	
24	8036434	20	WHEEL BOLT	
25	80304173	2	SHAFT SEAL	
26	1319475	2	STOP SCREW	
27	1319477	2	NUT	
28	7026664	2	SPACER TUBE	
29	8036330	2	STOP SCREW	
30		Ref	RING GEAR, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)	
31		Ref	LUG NUT, (See DRIVE TRAIN COMPONENTS for Breakdown)	

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FIGURE 5-9. FRONT AXLE - PLANETARY DRIVE



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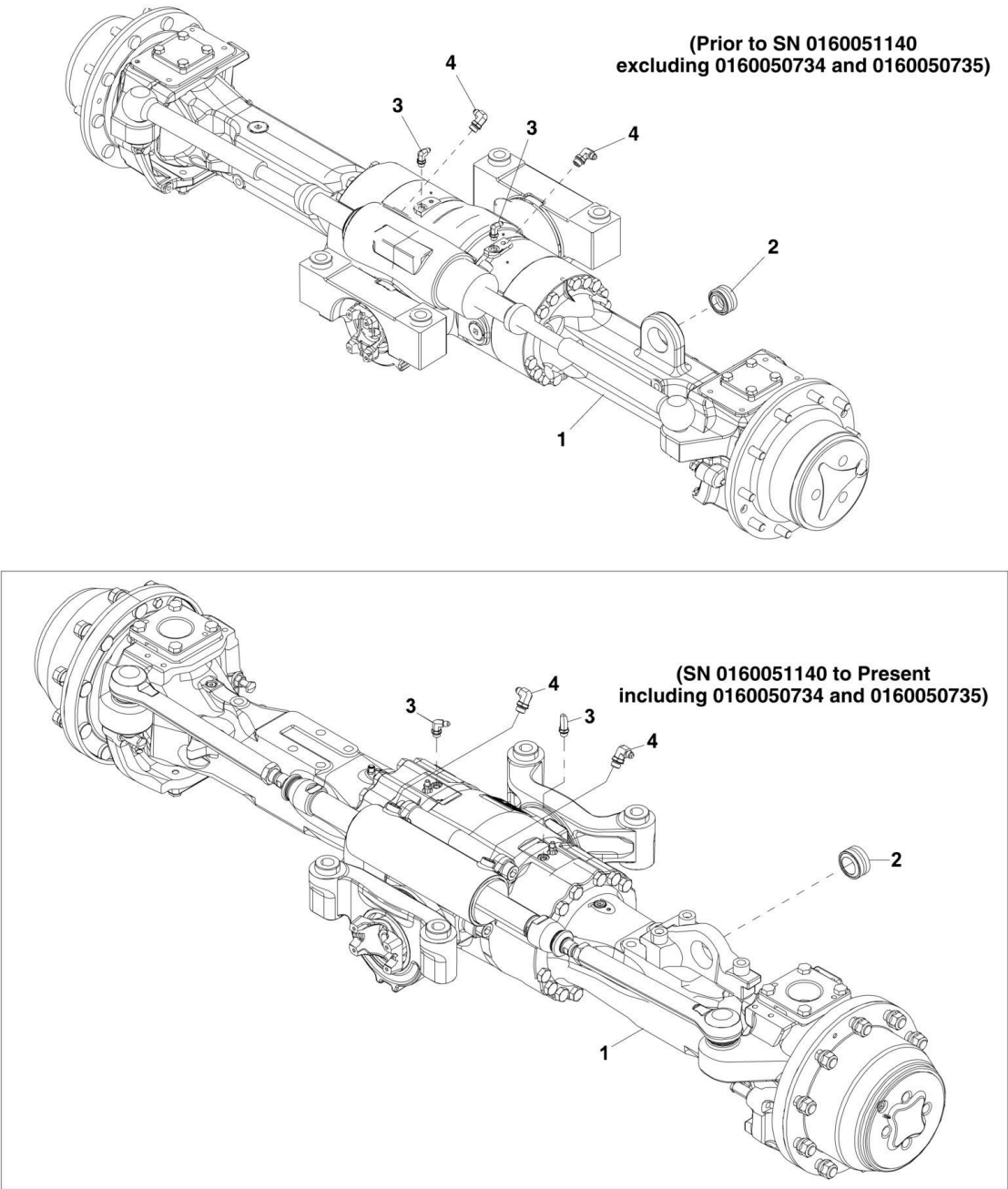
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FIGURE 5-9. FRONT AXLE - PLANETARY DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80304227	3	RETAINING RING	
2	1321205	6	SNAP RING	
3	1321191	6	WASHER	
4	1321214	3	ROLLER BEARING	
5	1321233	3	PLANETARY GEAR	
6	8035977	2	CAP SCREW	
7	1319506	1	SCREW PLUG	
8	8036331	1	O-RING	
9	1321232	1	PLANETARY CARRIER	
10	1321255	1	SUN GEAR SHAFT	
11	1321258	1	RING GEAR	

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FIGURE 5-10. REAR AXLE ASSEMBLY



PAP27930

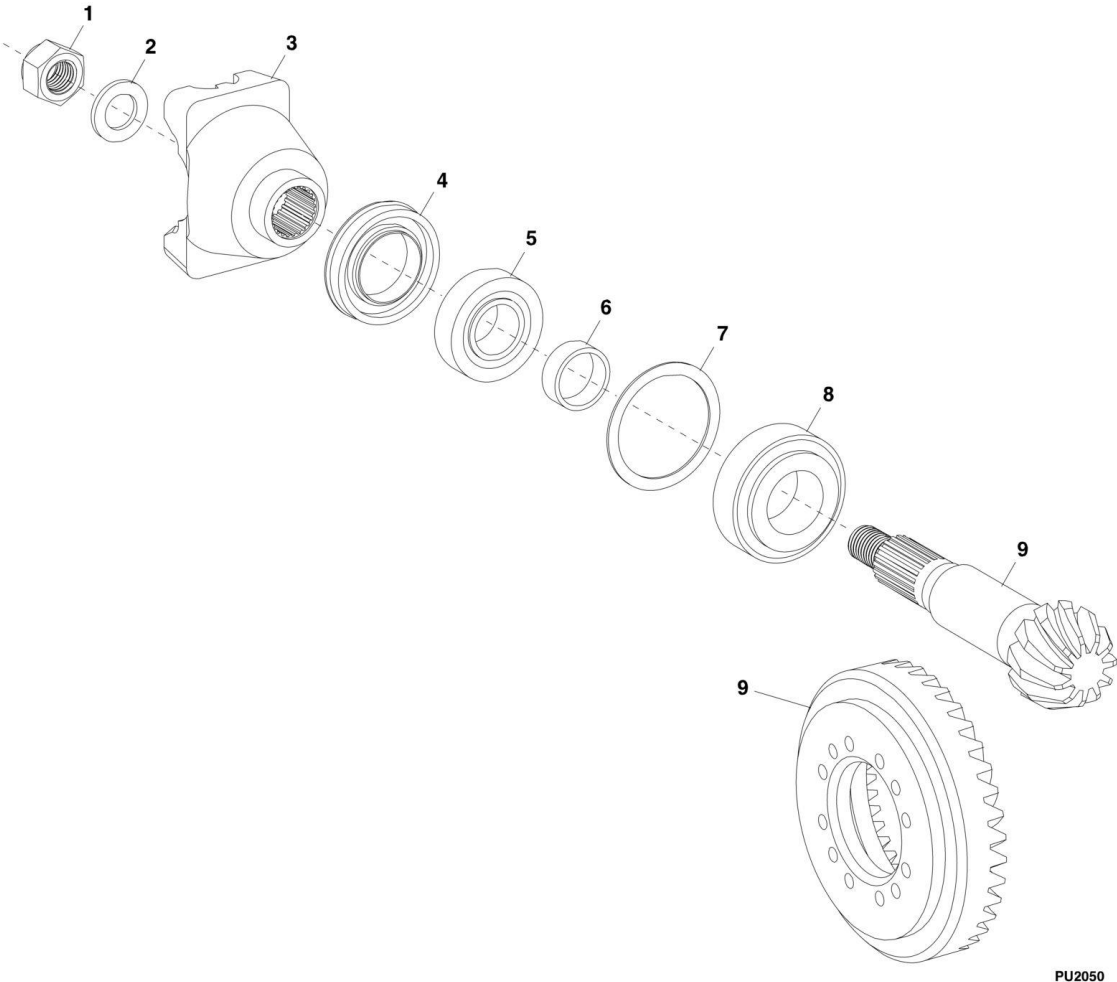
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FIGURE 5-10. REAR AXLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0280190	1	REAR AXLE ASSY, (includes all items) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	D
	1001107571	1	REAR AXLE ASSY, (includes all items) (SN 0160051140 to Present, Including 0160050734 and 01600507350)	A
1	0280188	1	REAR AXLE (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	F
1	1001107081	1	REAR AXLE (SN 0160051140 to Present, Including 0160050734 and 0160050735)	C
1		Ref	REAR AXLE - INPUT, (See REAR AXLE - INPUT for Breakdown)	
1		Ref	REAR AXLE - DIFFERENTIAL, (See REAR AXLE – DIFFERENTIAL for Breakdown)	
1		Ref	REAR AXLE - AXLE CASING, (See REAR AXLE – CASING for Breakdown)	
1		Ref	REAR AXLE - M-DISC BRAKE, (See REAR AXLE - M-DISC BRAKE for Breakdown)	
1		Ref	REAR AXLE - BRAKE, (See REAR AXLE – BRAKE for Breakdown)	
1		Ref	REAR AXLE - JOINT HOUSING, (See REAR AXLE - JOINT HOUSING for Breakdown)	
1		Ref	REAR AXLE - PLANETARY DRIVE, (See REAR AXLE - PLANETARY DRIVE for Breakdown)	
2	8050001	1	SELF ALIGN BEARING	
3	2220472	2	ELBOW, 90	
4	2220628	2	ELBOW, 90	

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FIGURE 5-11. REAR AXLE - INPUT (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



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FIGURE 5-11. REAR AXLE - INPUT (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)

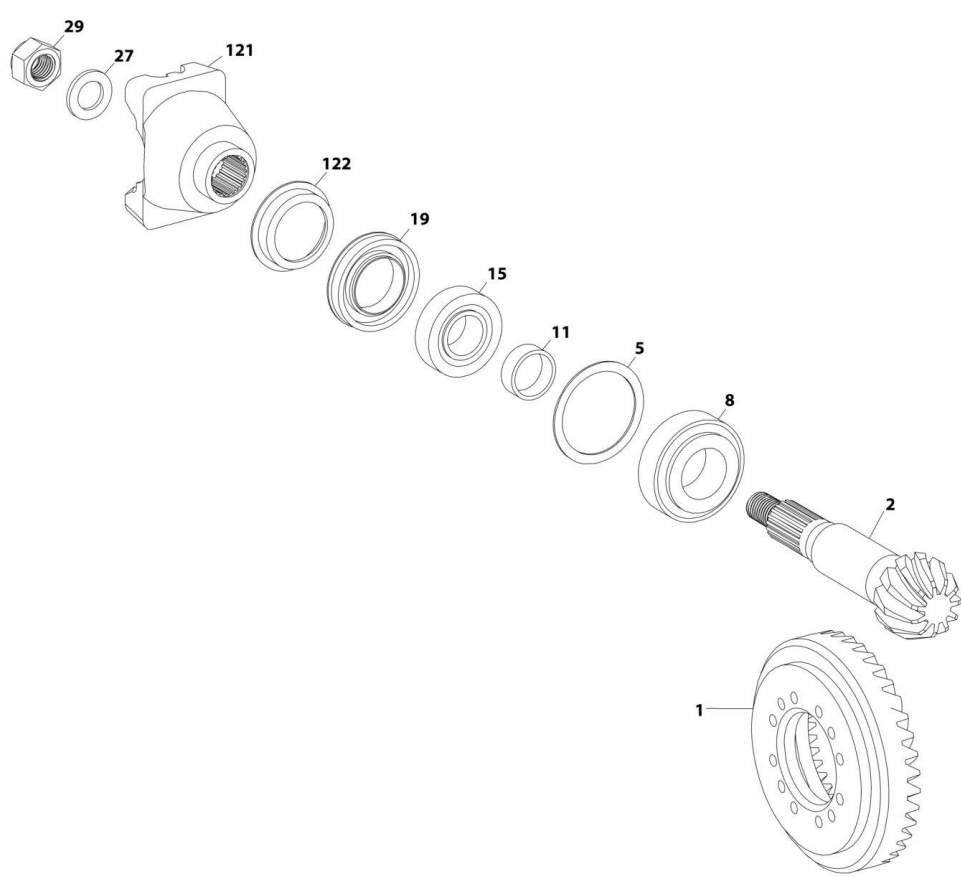
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035983	1	HEX NUT	
2	1319406	1	WASHER	
3	1321237	1	END YOKE	
4	1321211	1	COMBINATION RING	
5	1319444	1	ROLLER BEARING	
6	1319354	1	RING, 15.1mm	
6	1319355	1	RING, 15.2mm	
6	1319356	1	RING, 15.3mm	
6	1319357	1	RING, 15.4mm	
6	1319358	1	RING, 15.5mm	
6	1319359	1	RING, 15.6mm	
6	1319360	1	RING, 15.7mm	
6	1319361	1	RING, 15.8mm	
6	1319362	1	RING, 15.9mm	
6	1319363	1	RING, 16.0mm	
6	1319364	1	RING, 16.1mm	
6	1319365	1	RING, 16.2mm	
6	1319366	1	RING, 16.3mm	
6	1319367	1	RING, 16.4mm	
6	8035982	1	RING, 16.26mm	
6	1319369	1	RING, 16.23mm	
6	1319370	1	RING, 16.16mm	
6	1319371	1	RING, 16.13mm	
6	1319372	1	RING, 16.06mm	
6	1319373	1	RING, 16.03mm	
6	1319374	1	RING, 15.96mm	
6	1319375	1	RING, 15.93mm	
6	1319376	1	RING, 15.86mm	
6	1319377	1	RING, 15.83mm	
6	1319378	1	RING, 15.76mm	
6	1319379	1	RING, 15.73mm	
6	1319380	1	RING, 15.66mm	
6	1319381	1	RING, 15.63mm	
6	1319382	1	RING, 15.56mm	
6	1319383	1	RING, 15.53mm	
6	1319384	1	RING, 15.46mm	
6	1319385	1	RING, 15.43mm	
6	1319386	1	RING, 15.36mm	
6	1319387	1	RING, 15.33mm	
6	1319388	1	RING, 15.26mm	
6	1319389	1	RING, 15.38mm	
6	1319390	1	RING, 15.48mm	
6	1319391	1	RING, 15.58mm	
6	1319392	1	RING, 15.68mm	
6	1319393	1	RING, 15.69mm	
6	1319394	1	RING, 15.72mm	
6	1319395	1	RING, 15.78mm	
6	1319396	1	RING, 15.81mm	
6	1319397	1	RING, 15.84mm	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6	1319398	1	RING, 15.88mm	
6	1319399	1	RING, 15.89mm	
6	1319400	1	RING, 15.91mm	
6	1319401	1	RING, 15.94mm	
6	1319402	1	RING, 15.97mm	
7	1319333	AR	WASHER, 1.0mm	
7	1319334	AR	WASHER, 1.05mm	
7	1319335	AR	WASHER, 1.1mm	
7	1319336	AR	WASHER, 1.15mm	
7	1319337	AR	WASHER, 1.2mm	
7	1319338	AR	WASHER, 1.25mm	
7	1319339	AR	WASHER, 1.3mm	
7	1319340	AR	WASHER, 1.35mm	
7	1319341	AR	WASHER, 1.4mm	
7	1319342	AR	WASHER, 1.45mm	
7	1319343	AR	WASHER, 1.5mm	
7	1319344	AR	WASHER, 1.55mm	
7	1319345	AR	WASHER, 1.6mm	
7	1319346	AR	WASHER, 0.9mm	
7	1319347	AR	WASHER, 0.95mm	
7	1319348	AR	WASHER, 0.65mm	
7	1319349	AR	WASHER, 0.70mm	
7	1319350	AR	WASHER, 0.75mm	
7	1319351	AR	WASHER, 0.85mm	
7	1319352	AR	WASHER, 0.80mm	
8	1319353	1	ROLLER BEARING	
9	7028974	1	GEAR SET BEVEL	

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FIGURE 5-12. REAR AXLE - INPUT (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



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FIGURE 5-12. REAR AXLE - INPUT (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)

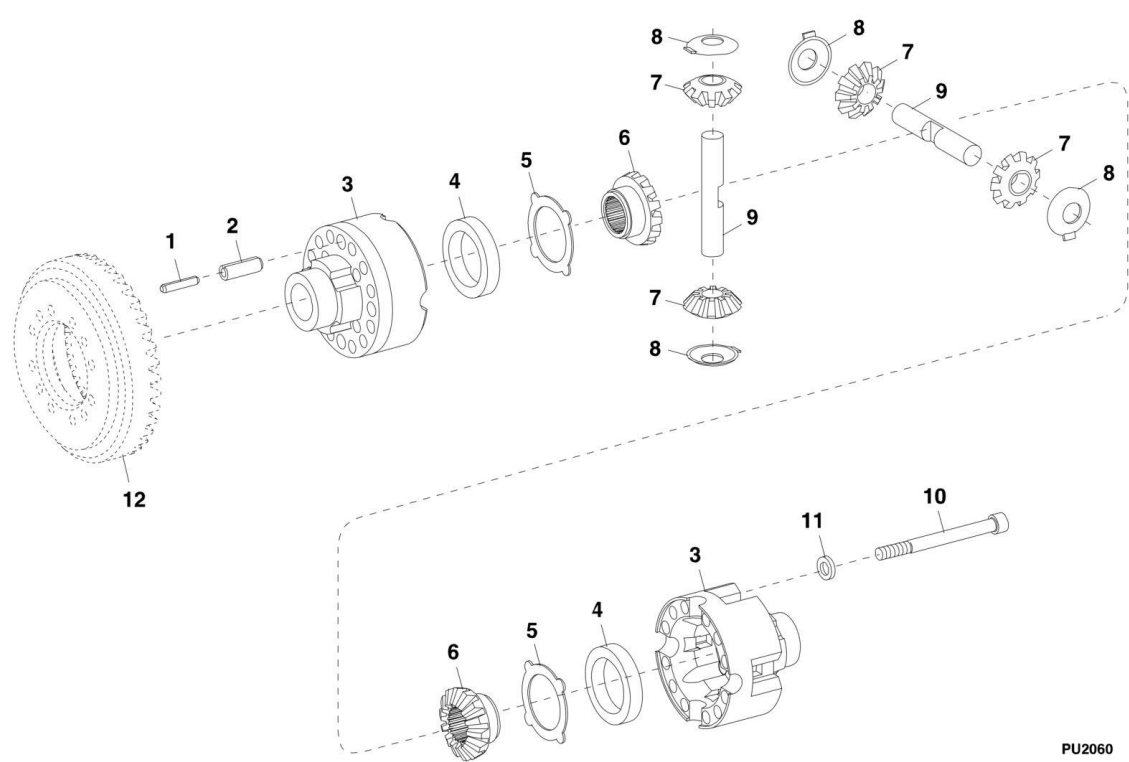
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70022786	1	Crown Wheel	
2	70022786	1	Bevel Gear	
5	80304143	1	Shim, 2.0mm	
5	80304144	1	Shim, 1.8mm	
5	80304145	1	Shim, 1.5mm	
5	80304146	1	Shim, 1.2mm	
5	80304147	1	Shim, 1.9mm	
5	80304148	1	Shim, 1.7mm	
5	80304149	1	Shim, 1.6mm	
5	80304150	1	Shim, 1.4mm	
5	80304151	1	Shim, 1.3mm	
5	80304152	1	Shim, 1.0mm	
5	80304153	1	Shim, 0.9mm	
5	80304154	1	Shim, 0.8mm	
5	80304155	1	Shim, 0.7mm	
5	80304156	1	Shim, 0.6mm	
5	80304157	1	Shim, 0.5mm	
5	80304158	1	Shim, 0.3mm	
5	80304159	1	Shim, 0.2mm	
5	80304160	1	Shim, 0.1mm	
5	80304161	1	Shim, 0.75mm	
5	80304162	1	Shim, 0.65mm	
5	80304163	1	Shim, 1.25mm	
5	80304164	1	Shim, 1.35mm	
5	80304165	1	Shim, 1.45mm	
5	80304166	1	Shim, 1.55mm	
5	80304167	1	Shim, 1.65mm	
5	80304168	1	Shim, 1.75mm	
5	80304169	1	Shim, 1.85mm	
8	70023400	1	Tapered Roller Bearing	
10	70024579	1	Ring, 16.0mm	
10	80304089	1	Ring, 16.1mm	
10	80304090	1	Ring, 16.2mm	
10	80304091	1	Ring, 16.3mm	
10	80304092	1	Ring, 16.4mm	
10	80304093	1	Ring, 16.5mm	
10	80304110	1	Ring, 16.56mm	
10	80304094	1	Ring, 16.6mm	
10	80304111	1	Ring, 16.62mm	
10	70024581	1	Ring, 16.64mm	
10	80304124	1	Ring, 16.66mm	
10	80304113	1	Ring, 16.68mm	
10	80304095	1	Ring, 16.7mm	
10	70022216	1	Ring, 16.72mm	
10	70024584	1	Ring, 16.74mm	
10	70024585	1	Ring, 16.76mm	
10	80304118	1	Ring, 16.78mm	
10	80304096	1	Ring, 16.8mm	
10	80304119	1	Ring, 16.82mm	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	80304120	1	Ring, 16.84mm	
10	80304104	1	Ring, 16.86mm	
10	70024592	1	Ring, 16.88mm	
10	70023903	1	Ring, 16.89mm	
10	70024593	1	Ring, 16.9mm	
10	80304097	1	Ring, 16.92mm	
10	70024594	1	Ring, 16.94mm	
10	80304125	1	Ring, 16.96mm	
10	80304107	1	Ring, 16.98mm	
10	70024596	1	Ring, 17.0mm	
10	70024597	1	Ring, 17.02mm	
10	80304108	1	Ring, 17.04mm	
10	70024598	1	Ring, 17.06mm	
10	70024599	1	Ring, 17.08mm	
10	80304099	1	Ring, 17.10mm	
10	70024600	1	Ring, 17.12mm	
10	70024601	1	Ring, 17.14mm	
10	80304132	1	Ring, 17.16mm	
10	80304133	1	Ring, 17.18mm	
10	80304100	1	Ring, 17.2mm	
10	80304134	1	Ring, 17.22mm	
10	80304135	1	Ring, 17.24mm	
10	80304136	1	Ring, 17.26mm	
10	80304137	1	Ring, 17.28mm	
10	80304101	1	Ring, 17.3mm	
10	80304102	1	Ring, 17.4mm	
15	1319353	1	Roller Bearing	
19	70022220	1	Shaft Seal	
27	80304082	1	Washer	
29	70022213	1	Hex Nut	
121	70022245	1	Yoke End	
122	70022776	1	Screen Sheet	

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FIGURE 5-13. REAR AXLE - DIFFERENTIAL (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



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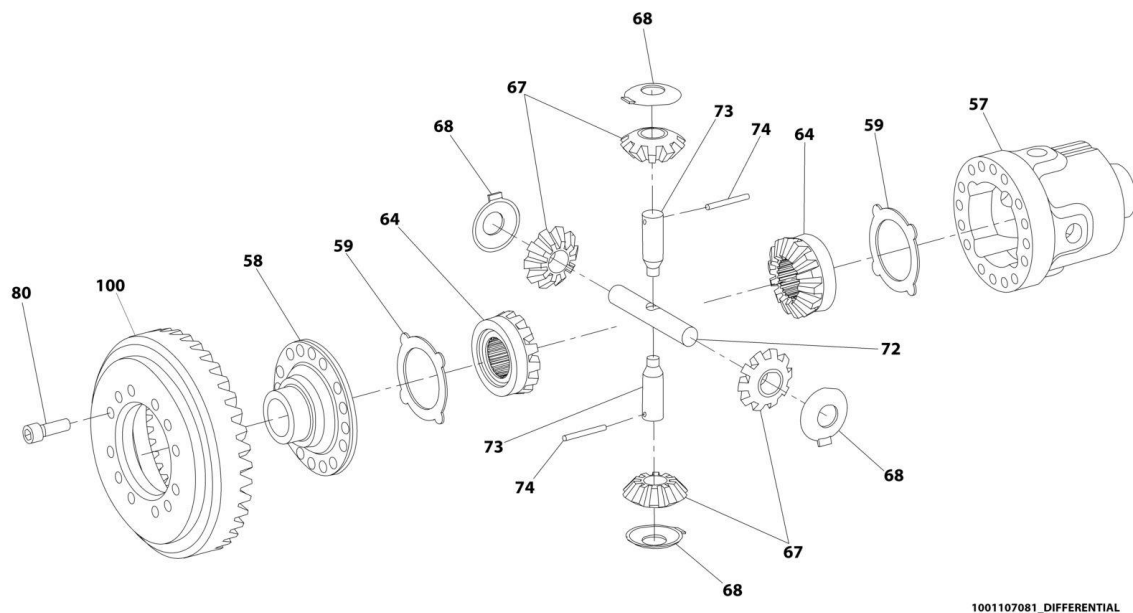
SECTION 5 - DRIVE TRAIN

FIGURE 5-13. REAR AXLE - DIFFERENTIAL (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7028976	1	DIFFERENTIAL ASSY, (includes items 1 thru 11)	
1	1321154	4	SLOT PIN	
2	1321153	4	SLOT PIN	
3	1321215	1	DIFFERENTIAL CASE	
4	1321260	2	DIFFERENTIAL RING, 13.7mm, (Prior to Axle SN 708692)	
4	8035984	2	DIFFERENTIAL RING, 13.6mm, (Prior to Axle SN 708692)	
4	1321259	2	DIFFERENTIAL RING, 13.5mm, (Prior to Axle SN 708692)	
5	1319412	2	THRUST WASHER	
6	8036752	2	AXLE BEVEL GEAR	
7	8036753	4	DIFFERENTIAL BEVEL GEAR, (Prior to Axle SN 708692)	
7	1319414	4	DIFFERENTIAL BEVEL GEAR, (Axle SN 708692 to Present)	
8	1319415	4	THRUST WASHER	
9	1321225	2	DIFFERENTIAL AXLE	
10	8035923	12	CAPSCREW	
11	1321184	12	WASHER	
12		Ref	GEAR SET BEVEL, (See REAR AXLE - INPUT for Breakdown)	

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FIGURE 5-14. REAR AXLE - DIFFERENTIAL (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



1001107081_DIFFERENTIAL

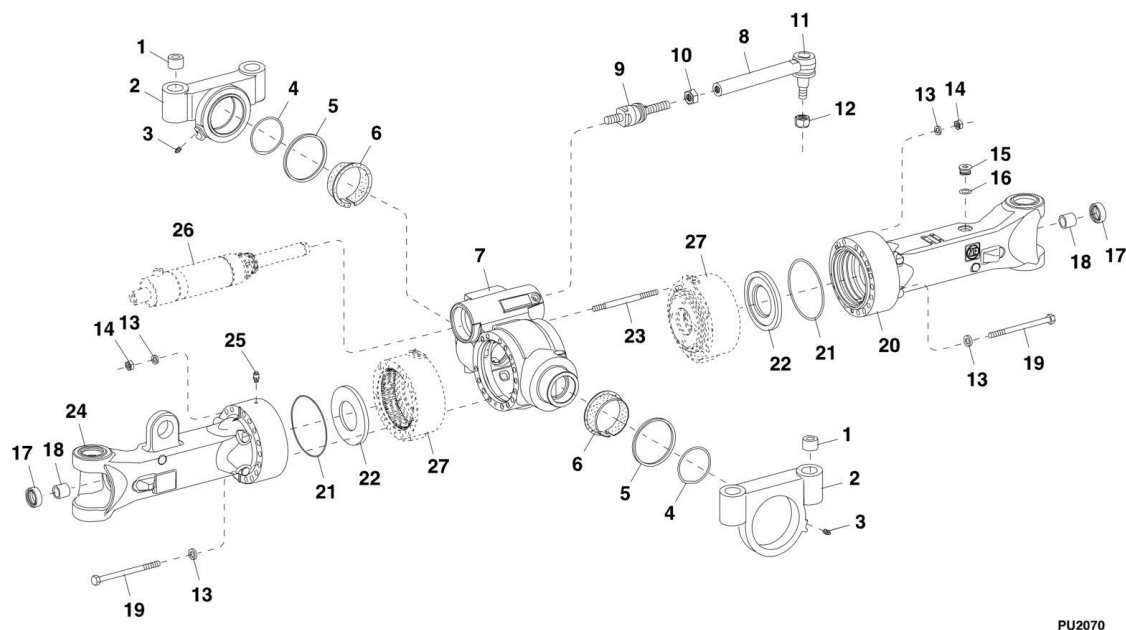
SECTION 5 - DRIVE TRAIN

FIGURE 5-14. REAR AXLE - DIFFERENTIAL (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
57	70023910	1	Differential Case	
58	70022229	1	Cover	
59	70022284	2	Thrust Washer	
64	See Note	2	Bevel Gear (note: purchase 70024609)	
67	70022185	4	Differential Bevel Gear	
68	70022262	4	Thrust Washer	
72	70022227	1	Differential Axle	
73	70022228	2	Differential Axle	
74	70023904	2	Slot Pin	
80	70022211	16	Bolt M12 x 35	
100		Ref	Crown Wheel (see REAR AXLE - INPUT for Breakdown)	

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FIGURE 5-15. REAR AXLE - AXLE CASING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



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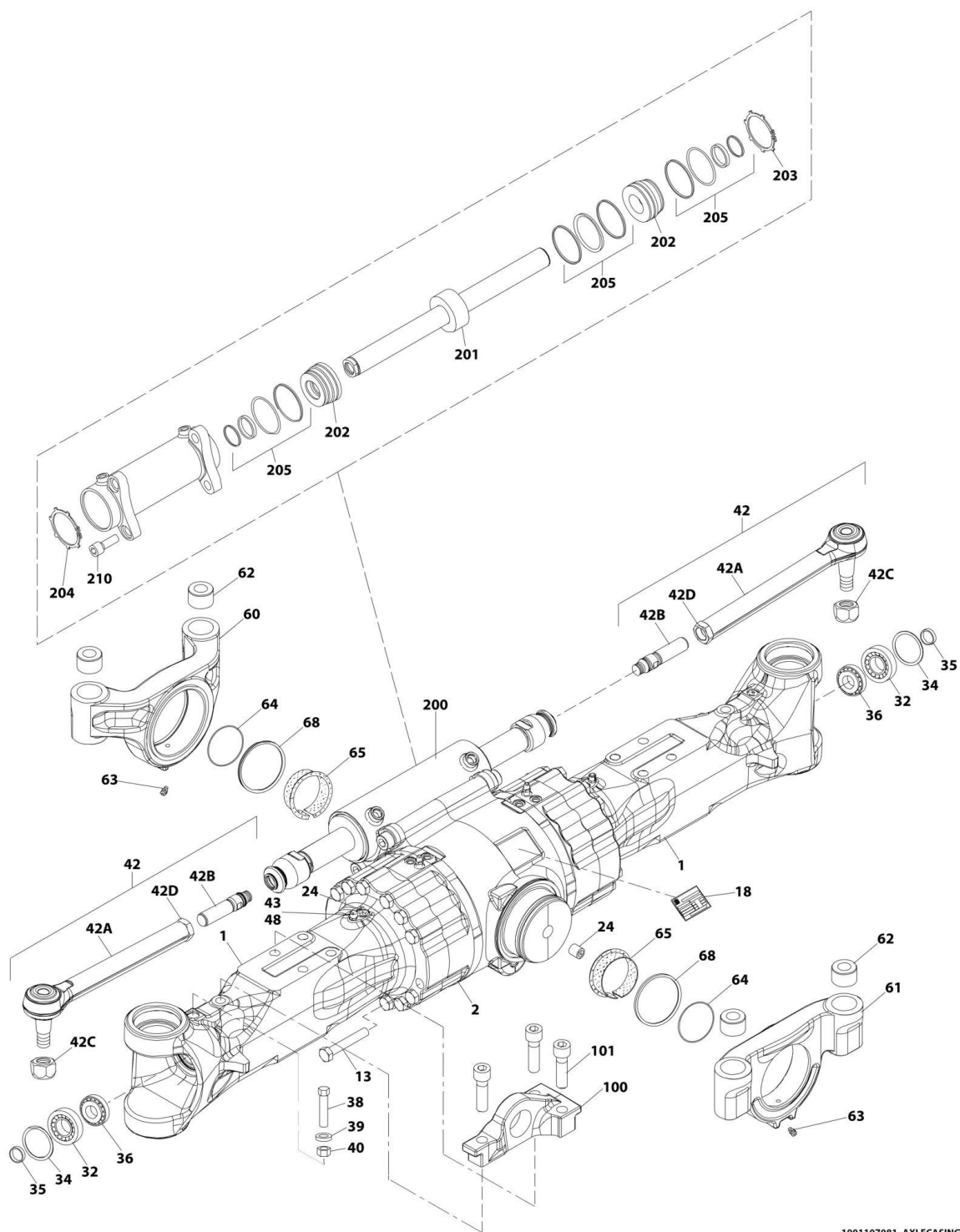
SECTION 5 - DRIVE TRAIN

FIGURE 5-15. REAR AXLE - AXLE CASING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319441	4	CENTERING BUSHING	
2	8035933	2	BRACKET	
3	1319423	2	GREASE FITTING	
4	1319439	2	O-RING	
5	1319440	2	V-RING	
6	8036419	2	FLANGE BUSHING	
7	7027227	NLA	AXLE DRIVE HOUSING, (no longer available, order 70021111 for replacement)	
7	70021111	1	AXLE DRIVE HOUSING	
8	1321148	2	TRACK ROD, (includes items 9 thru 12)	
9	8036757	2	AXIAL JOINT COUPLING	
10	8036759	2	HEX NUT	
11	8036756	2	BALL JOINT w/PIPE COUPLING	
12	8036758	2	LOCKING NUT	
13	8036312	30	WASHER, (if required), (only used with 7027227 axle drive housing)	
14	1319429	8	HEX NUT	
15	1319506	1	SCREW PLUG	
16	8036331	1	O-RING	
17	7027211	2	SHAFT SEAL	
18	1319433	2	BUSHING	
19	8035927	30	HEX SCREW, (used with 7027227 axle drive housing)	
19	8035927	28	HEX SCREW, (used with 70021111 axle drive housing)	
20	8035987	1	AXLE CASING, (right rear)	
21	1319425	2	O-RING	
22	8036606	2	END SHIM, (Prior to Axle SN 679469)	
22	70020413	2	END SHIM, (Axle SN 679469 to Present)	
23	8036313	8	STUD	
24	8035986	1	AXLE CASING, (left rear)	
25	1319436	1	VENT VALVE	
26		Ref	STEERING CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
27		Ref	BRAKE HOUSING, (See REAR AXLE - M-DISC BRAKE for Breakdown)	

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FIGURE 5-16. REAR AXLE - AXLE CASING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



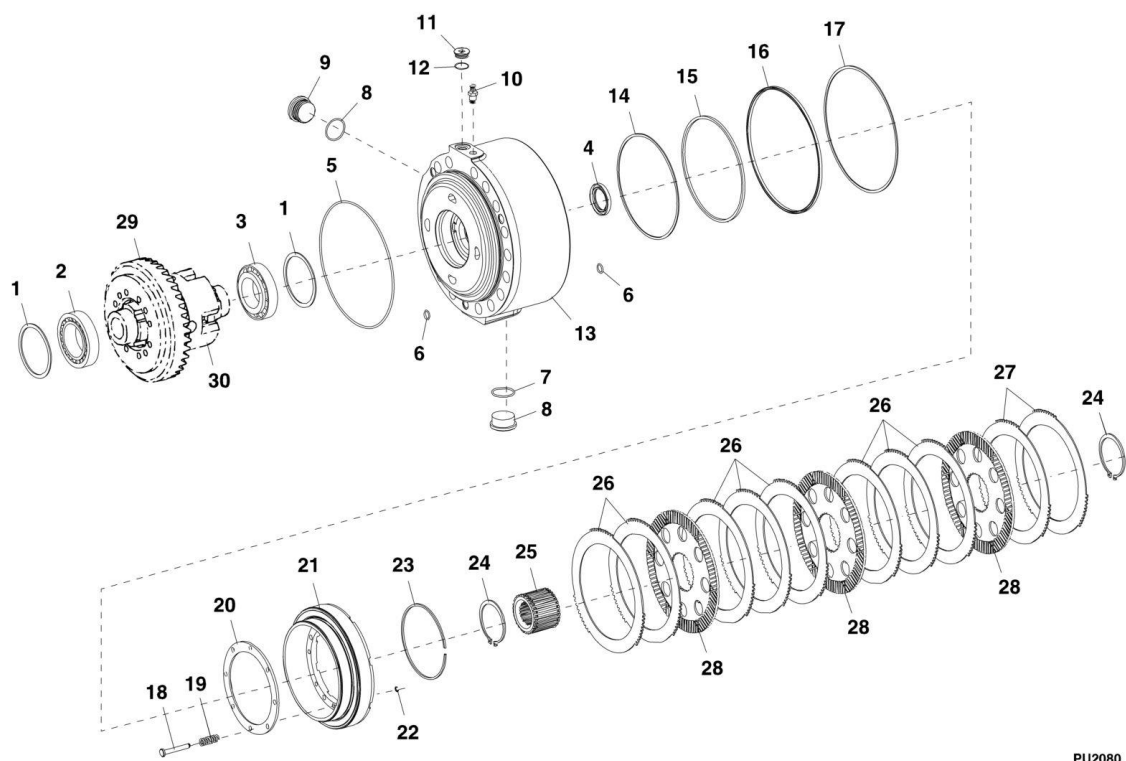
SECTION 5 - DRIVE TRAIN

FIGURE 5-16. REAR AXLE - AXLE CASING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70022255	2	Axle Casing	
3	70022259	1	Housing	
13	70022206	28	Bolt M18 x 180mm	
18	NSS	NSS	SN Plate	
24	70023404	4	Screw Plug	
32	70022241	2	Bushing	
34	70022204	2	O-Ring	
35	70022217	2	Ring	
36	10731790	2	Bearing	
38	70024615	2	Bolt M10 x 55	
39	70023906	2	Washer	
40	70023907	2	Nut	
42	70022174	2	Tie Rod	
42A	70022175	1	Ball Joint	
42B	70022172	1	Joint	
42C	8036758	1	Nut, Lock	
42D	8036759	1	Nut	
43	1319436	1	Breather	
48	8036418	2	Plug	
60	70022246	1	Bracket	
61	70022247	1	Bracket	
62	1319441	4	Bushing	
63	1319423	2	Nipple	
64	70022205	2	O-Ring	
65	70022182	2	Flange Bushing	
68	70022219	2	V-Ring	
100	70022254	1	Bracket	
101	1001103619	4	Bolt M22 x 80	
200	70022173	1	Steering Cylinder Assembly	
201	70022177	1	Piston Rod	
202	70022184	2	Brake	
203	70022181	2	Retaining Ring	
204	70022180	2	Retaining Ring	
205	70022178	1	Seal Kit	
210	70022789	4	Bolt M22 x 55	

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FIGURE 5-17. REAR AXLE - M-DISC BRAKE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



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FIGURE 5-17. REAR AXLE - M-DISC BRAKE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)

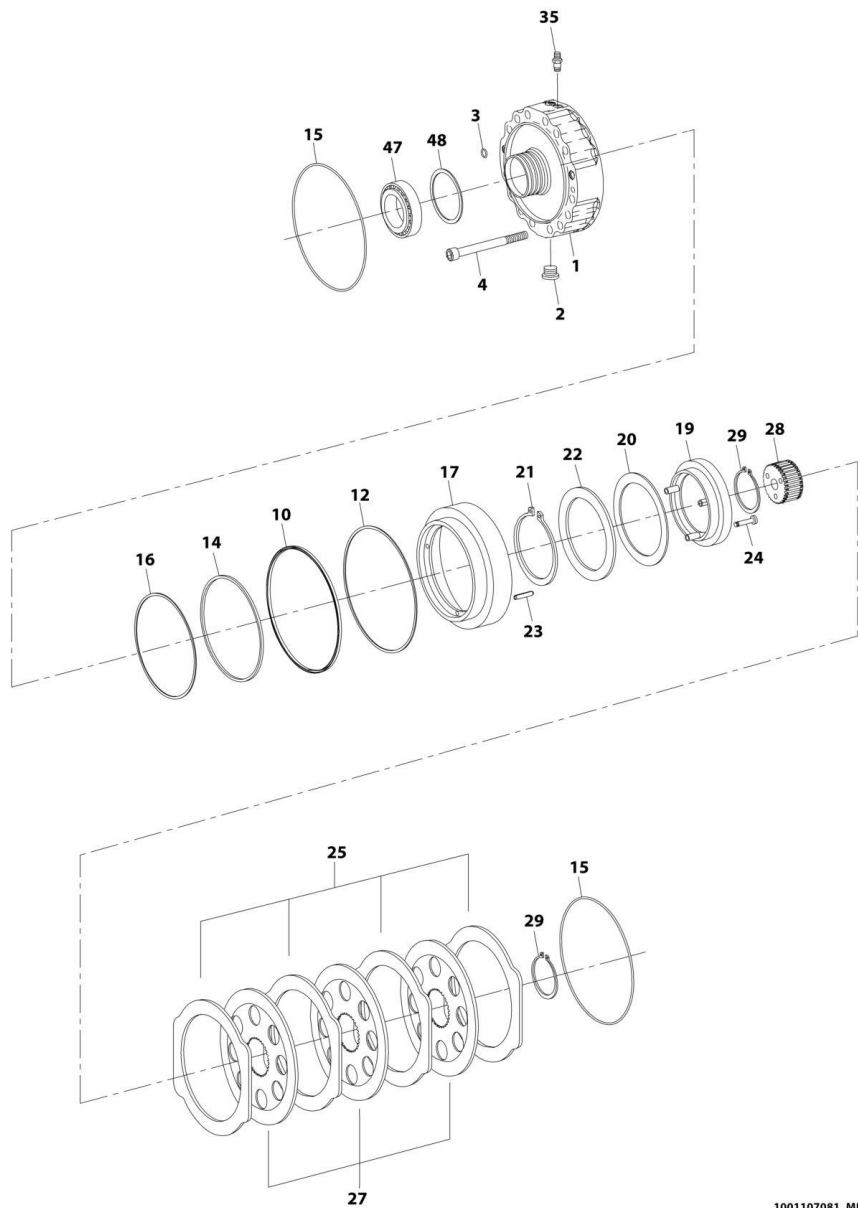
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319531	AR	SHIM, 0.1mm	
1	8035945	AR	SHIM, 0.15mm	
1	1319530	AR	SHIM, 0.2mm	
1	8035946	AR	SHIM, 0.25mm	
1	1319529	AR	SHIM, 0.3mm	
1	8035947	AR	SHIM, 0.35mm	
1	8035951	AR	SHIM, 0.4mm	
1	1319543	AR	SHIM, 0.45mm	
1	1319527	AR	SHIM, 0.5mm	
1	1321158	AR	SHIM, 0.55mm	
1	1319526	AR	SHIM, 0.6mm	
1	1319532	AR	SHIM, 0.65mm	
1	1319533	AR	SHIM, 0.7mm	
1	1319534	AR	SHIM, 0.75mm	
1	1319525	AR	SHIM, 0.8mm	
1	1319535	AR	SHIM, 0.85mm	
1	1319536	AR	SHIM, 0.9mm	
1	1319537	AR	SHIM, 0.95mm	
1	1319524	AR	SHIM, 1.0mm	
1	1319545	AR	SHIM, 1.05mm	
1	1319538	AR	SHIM, 1.10mm	
1	1319539	AR	SHIM, 1.15mm	
1	1319523	AR	SHIM, 1.20mm	
1	1319540	AR	SHIM, 1.25mm	
1	1319541	AR	SHIM, 1.30mm	
1	1319542	AR	SHIM, 1.35mm	
1	1319522	AR	SHIM, 1.40mm	
1	1319521	AR	SHIM, 1.45mm	
1	1319520	AR	SHIM, 1.50mm	
1	1319519	AR	SHIM, 1.55mm	
1	1319518	AR	SHIM, 1.60mm	
1	8035948	AR	SHIM, 1.63mm	
1	1319517	AR	SHIM, 1.65mm	
1	1319510	AR	SHIM, 2.0mm	
1	1321159	AR	SHIM, 1.47mm	
1	1319516	AR	SHIM, 1.70mm	
1	1319515	AR	SHIM, 1.75mm	
1	1319514	AR	SHIM, 1.80mm	
1	1319513	AR	SHIM, 1.85mm	
1	1319512	AR	SHIM, 1.90mm	
1	1319511	AR	SHIM, 1.95mm	
2	8036447	2	ROLLER BEARING	
3	8036445	2	ROLLER BEARING	
4	8036444	2	SHAFT SEAL	
5	1319425	2	O-RING	
6	1319491	12	O-RING	
7	8036331	4	O-RING	
8	1319431	2	SCREW PLUG	
9	1319506	2	SCREW PLUG	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	1319505	2	VENT VALVE	
11	1319666	2	SCREW PLUG	
12	7027217	2	O-RING	
13	8035936	NLA	BRAKE HOUSING, (right side), (Prior to Axle SN 679469), (no longer available, see note, order 70020483 for replacement)	
13	70020483	1	BRAKE HOUSING, (right side), (Axle SN 679469 to Present)	
13	8035939	NLA	BRAKE HOUSING, (left side), (Prior to Axle SN 679469), (no longer available, see note, order 70020484 for replacement)	
13	70020484	1	BRAKE HOUSING, (left side), (Axle SN 679469 to Present)	
14	1321151	2	SUPPORT RING	
15	1321162	2	U-RING	
16	1321163	2	U-RING	
17	1321152	2	SUPPORT RING	
18	1319496	16	PIN	
19	1319497	16	COMPRESSION SPRING	
20	8036305	2	WASHER	
21	8036304	2	PISTON	
22	1319499	16	CRESCENT RING	
23	1319504	4	SNAP RING	
24	10731949	2	RETAINING RING	
25	1321174	2	DISC CARRIER, (Prior to Axle SN 824742)	
25	70020409	1	DISC CARRIER, (Axle SN 824742 to Present)	
26	1319502	16	O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679469)	
26	70020486	8	O. CLUTCH DISC, 2.5mm, (Axle SN 679469 to Present)	
26	70020487	8	O. CLUTCH DISC, 3.0mm, (Axle SN 679469 to Present)	
27	1319500	4	O. CLUTCH DISC, 2.0mm, (Prior to Axle SN 679469)	
27	70020485	4	O. CLUTCH DISC, 2.0mm, (Axle SN 679469 to Present)	
27	1319501	4	O. CLUTCH DISC, 2.5mm, (Prior to Axle SN 679469)	
27	70020486	4	O. CLUTCH DISC, 2.5mm, (Axle SN 679469 to Present)	
27	1319502	4	O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679469)	
27	70020487	4	O. CLUTCH DISC, 3.0mm, (Axle SN 679469 to Present)	
28	1321150	6	I. CLUTCH DISC, (Prior to Axle SN 824742)	
28	70020408	3	I. CLUTCH DISC, (Axle SN 824742 to present)	
29		Ref	GEAR SET BEVEL, (See REAR AXLE - INPUT for Breakdown)	
30		Ref	DIFFERENTIAL ASSY, (See REAR AXLE – DIFFERENTIAL for Breakdown)	
N1	Note	Ref	PARTS ARE NO LONGER AVAILABLE; ORDER BRAKE HOUSINGS 70020483 & 70020484, QUANTITY REQUIRED OF OUTER DISCS 70020485, 70020486 & 70020487, QUANTITY 2 OF 70020413 END PLATES.	

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FIGURE 5-18. REAR AXLE - M-DISC BRAKE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



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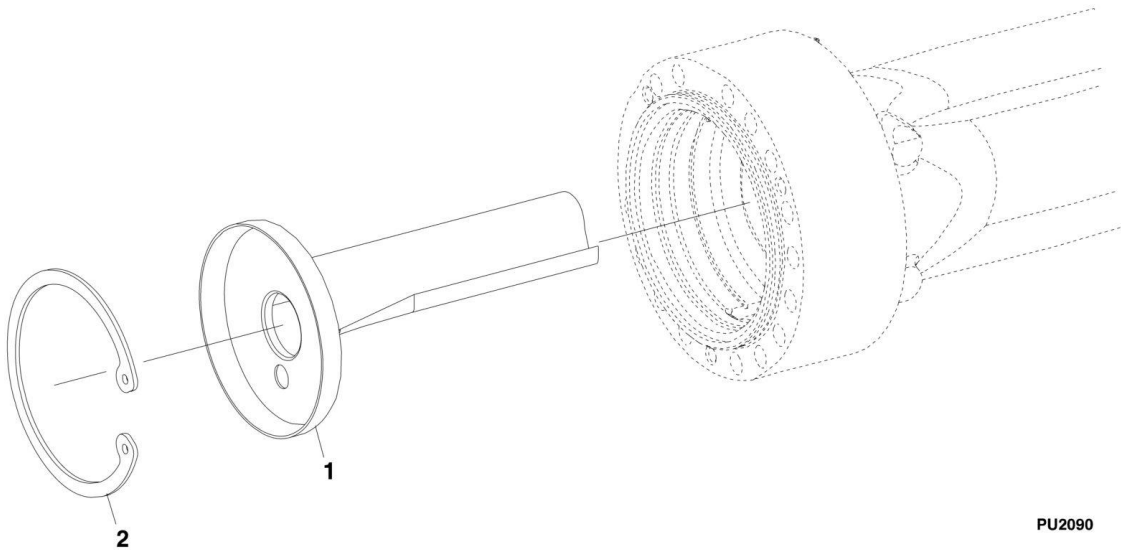
SECTION 5 - DRIVE TRAIN

FIGURE 5-18. REAR AXLE - M-DISC BRAKE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70022788	2	Brake Housing	
2	70023404	2	Screw Plug	
3	70022779	10	O-Ring	
4	70022209	6	Screw M12 x 105	
10	70022190	2	Piston Packing	
12	70022193	2	Back-Up Ring	
14	70022189	2	Piston Packing	
15	80304462	4	O-Ring	
16	70022194	2	Back Ring	
17	70022250	2	Piston	
19	70023908	2	Ring	
20	70022183	2	Cup Spring	
21	70022198	2	Retaining Ring	
22	70022235	2	Washer	
23	70022186	8	Slot Pin	
24	1319214	6	Screw M8 x 40	
25	70022196	8	O. Clutch Disc	
27	70022176	6	I. Clutch Disc	
28	70022253	2	Disc Carrier	
29	10731949	4	Retaining Ring	
35	70022171	2	Breather	
47	8036447	2	ROLLER BEARING	
48	1319537	2	SHIM, 0.95mm	
48	1319545	2	SHIM, 1.05mm	
48	1319539	2	SHIM, 1.15mm	
48	1319540	2	SHIM, 1.25mm	
48	1319542	2	SHIM, 1.35mm	

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FIGURE 5-19. REAR AXLE - BRAKE



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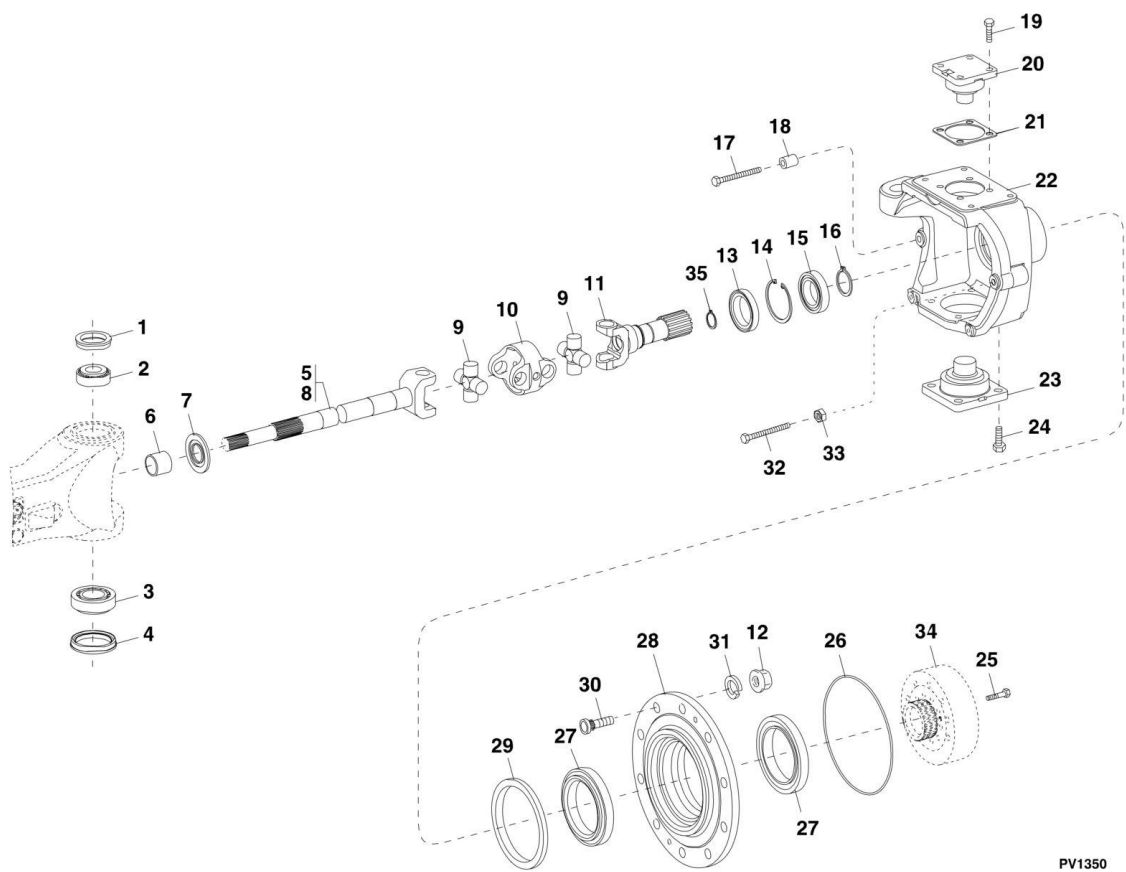
SECTION 5 - DRIVE TRAIN

FIGURE 5-19. REAR AXLE - BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321172	2	OIL DAM	
2	1321178	2	RETAINING RING	

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FIGURE 5-20. REAR AXLE - JOINT HOUSING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



SECTION 5 - DRIVE TRAIN

FIGURE 5-20. REAR AXLE - JOINT HOUSING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)

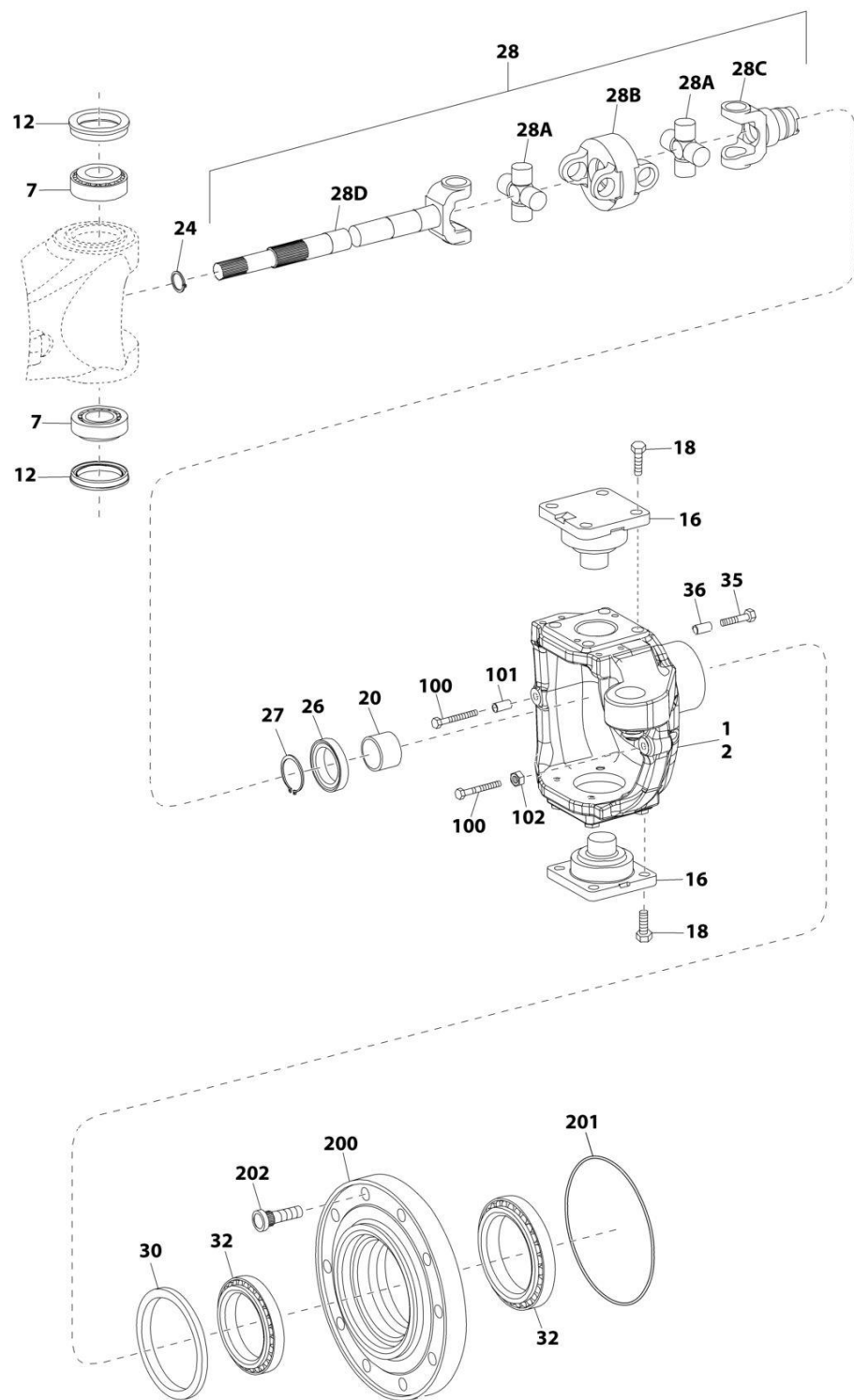
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036338	2	MULTI SEAL RING	
2	1319444	2	ROLLER BEARING	
3	1319445	2	ROLLER BEARING	
4	1319447	2	SHAFT SEAL	
5	7028979	NLA	DRIVE SHAFT UNIVERSAL COUPLING, (Prior to Axle SN 720124), (not maintenance free), (no longer available, use 70022052 for replacement), (includes items 6 thru 11)	
5	70022052	2	DRIVE SHAFT UNIVERSAL COUPLING, (Axle SN 720125 to Present), (maintenance free), (includes items 6 thru 11)	
6	8035973	2	BUSHING	
7	8035996	2	SCREEN SHEET	
8	8035995	2	JOINT COUPLING FORK	
9	8035993	2	JOINT CROSS, (Prior to Axle SN 720124)	
9	70021554	2	JOINT CROSS, (Axle SN 720125 to Present)	
10	8035992	2	CENTRAL PIECE, (Prior to Axle SN 720124)	
10	70021553	2	CENTRAL PIECE, (Axle SN 720125 to Present)	
11	8035994	2	JOINT FORK, (Prior to Axle SN 720124)	
11	8035994	2	JOINT FORK, (Axle SN 720125 to Present)	
12		Ref	LUG NUT, (See DRIVE TRAIN COMPONENTS for Breakdown)	
13	7028977	2	SHAFT SEAL, (when installing item 13 it is recommended by vendor to use Driver Handle 7029740 and Seal Driver 7029738)	
14	1319210	2	RETAINING RING	
15	1321157	2	BALL BEARING	
16	80304405	2	RETAINING RING	
17	1319476	2	STOP SCREW	
18	7026664	2	SPACER TUBE	
19	1319463	8	HEX SCREW	
20	1319461	2	BEARING PIN	
21	1319448	AR	SHIM, 0.2mm	
21	1319449	AR	SHIM, 0.3mm	
21	1319450	AR	SHIM, 0.4mm	
21	1319451	AR	SHIM, 0.6mm	
21	1319452	AR	SHIM, 0.8mm	
21	1319453	AR	SHIM, 1.0mm	
21	1319454	AR	SHIM, 1.2mm	
21	1319455	AR	SHIM, 1.4mm	
21	1319456	AR	SHIM, 1.6mm	
21	1319457	AR	SHIM, 1.8mm	
21	1319458	AR	SHIM, 2.0mm	
21	1319459	AR	SHIM, 0.7mm	
21	1319460	AR	SHIM, 0.5mm	
22	1321245	1	JOINT HOUSING, (left side)	
22	1321246	1	JOINT HOUSING, (right side)	
23	1319462	2	BEARING PIN	
24	1319464	8	HEX SCREW	
25	8035997	20	HEX SCREW	
26	1321155	2	O-RING	
27	1319472	4	ROLLER BEARING	
28	1321239	2	HUB	
29	80304173	2	CASSETTE RING	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
30	8036434	20	WHEEL BOLT	
31		Ref	WASHER, (See DRIVE TRAIN COMPONENTS for Breakdown)	
32	1319475	2	STOP SCREW	
33	1319477	2	HEX NUT	
34		Ref	RING GEAR, (See REAR AXLE - PLANETARY DRIVE for Breakdown)	
35	1321226	2	RETAINING RING	
N1	Note	Ref	NOTE: IF REPLACING BOTH 8035992 CENTRAL PIECE 8035993 JOINT CROSS (NOT MAINTENANCE FREE) CAN REPLACE WITH 70021553 CENTRAL PIECE AND 70021554 JOINT CROSS (MAINTENANCE FREE)	

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FIGURE 5-21. REAR AXLE - JOINT HOUSING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



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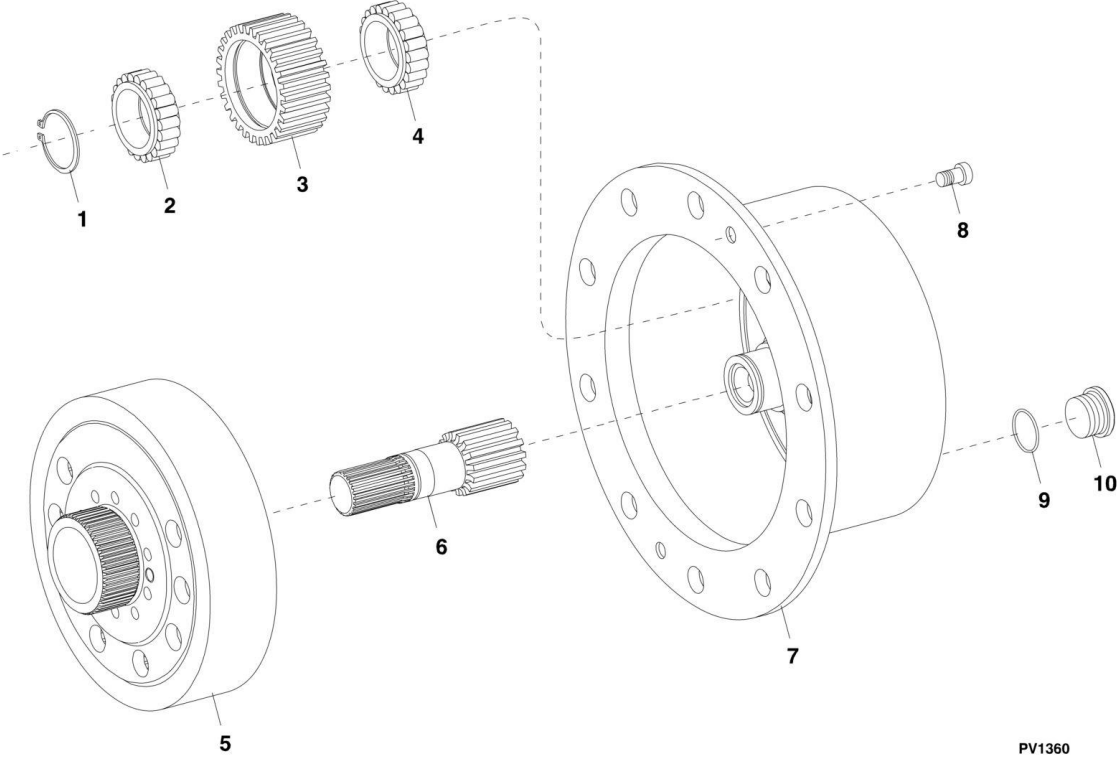
SECTION 5 - DRIVE TRAIN

FIGURE 5-21. REAR AXLE - JOINT HOUSING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70022237	1	Housing, Joint (right side)	
2	70022238	1	Housing, Joint (left side)	
7	70022223	4	Bearing, Roller	
12	1319447	4	Seal, Shaft	
16	70022240	4	Pin, Bearing	
18	1319464	16	Screw, M16X40	
20	70022179	2	Bushing	
24	10731789	2	Ring, Retaining	
26	70022218	2	Seal, Shaft	
27	1321226	2	Ring, Retaining	
28	70022781	2	Universal Coupling Drive Shaft Assembly	
28A	70021554	2	Cross, Joint	
28B	70022782	1	Central Piece	
28C	70022187	1	Shaft, Fork	
28D	70022188	1	Shaft, Fork	
30	80304173	2	Seal, Shaft	
32	1319472	4	Bearing, Roller	
35	70023405	16	Screw M14 x 70	
36	70022234	16	Bushing, Centering	
100	8036330	4	Screw M14 x 1-1/2	
101	70022276	2	Tube, Spacer	
102	1319477	2	Nut	
200	70024613	2	Hub	
201	70022203	2	O-Ring	
202	70022230	20	Bolt M22 x 1-1/2	

SECTION 5 - DRIVE TRAIN

FIGURE 5-22. REAR AXLE - PLANETARY DRIVE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



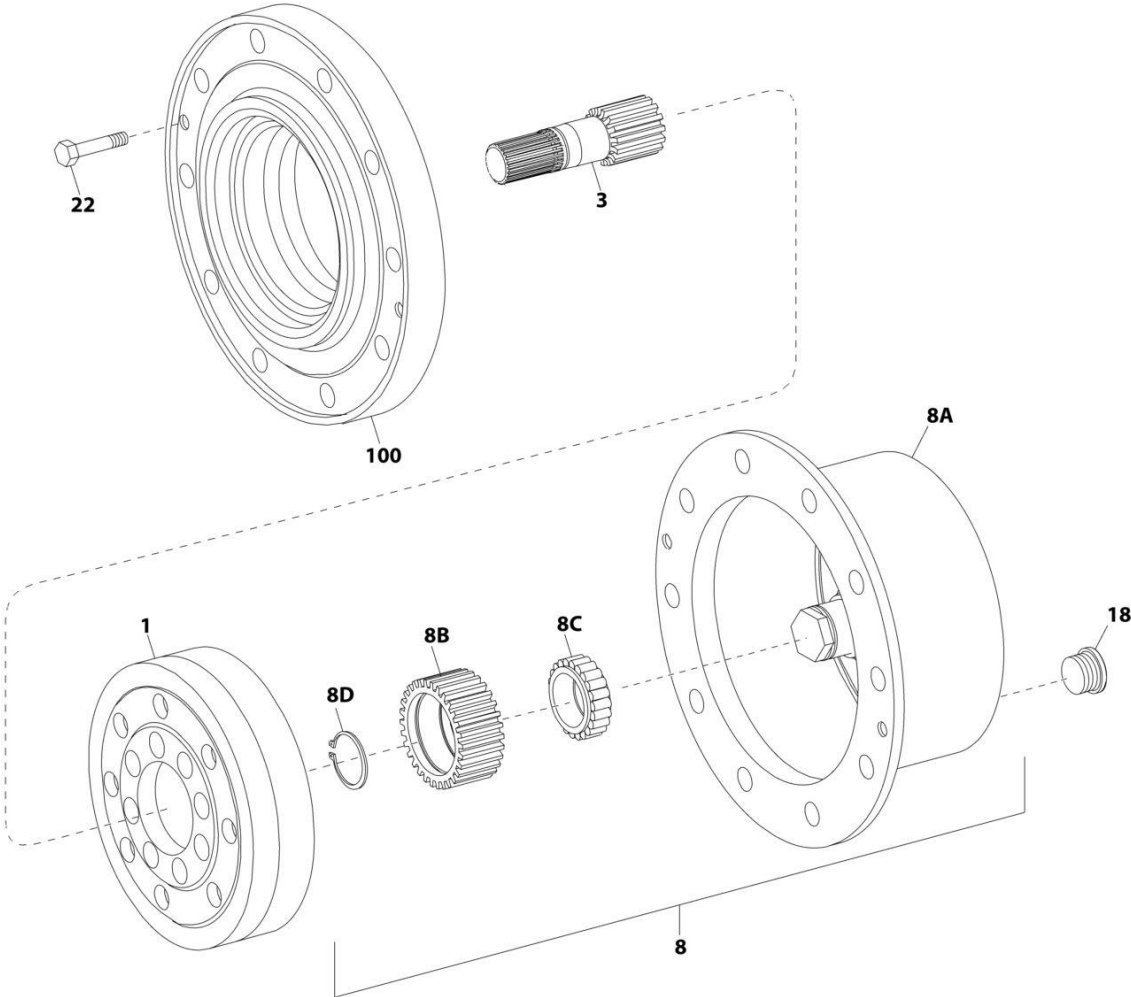
SECTION 5 - DRIVE TRAIN

FIGURE 5-22. REAR AXLE - PLANETARY DRIVE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319485	8	SNAP RING	
2	1319484	8	INNER RING BEARING	
3	1321231	8	PLANETARY GEAR	
4	1319483	8	INNER RING BEARING	
5	1321247	2	RING GEAR	
6	1321242	2	SUN GEAR SHAFT	
7	8036414	2	PLANETARY CARRIER	
8	8035977	4	CAPSCREW	
9	8036331	2	O-RING	
10	1319506	2	SCREW PLUG	

SECTION 5 - DRIVE TRAIN

FIGURE 5-23. REAR AXLE - PLANETARY DRIVE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



ART_1001107081_PLANETARYDRIVE

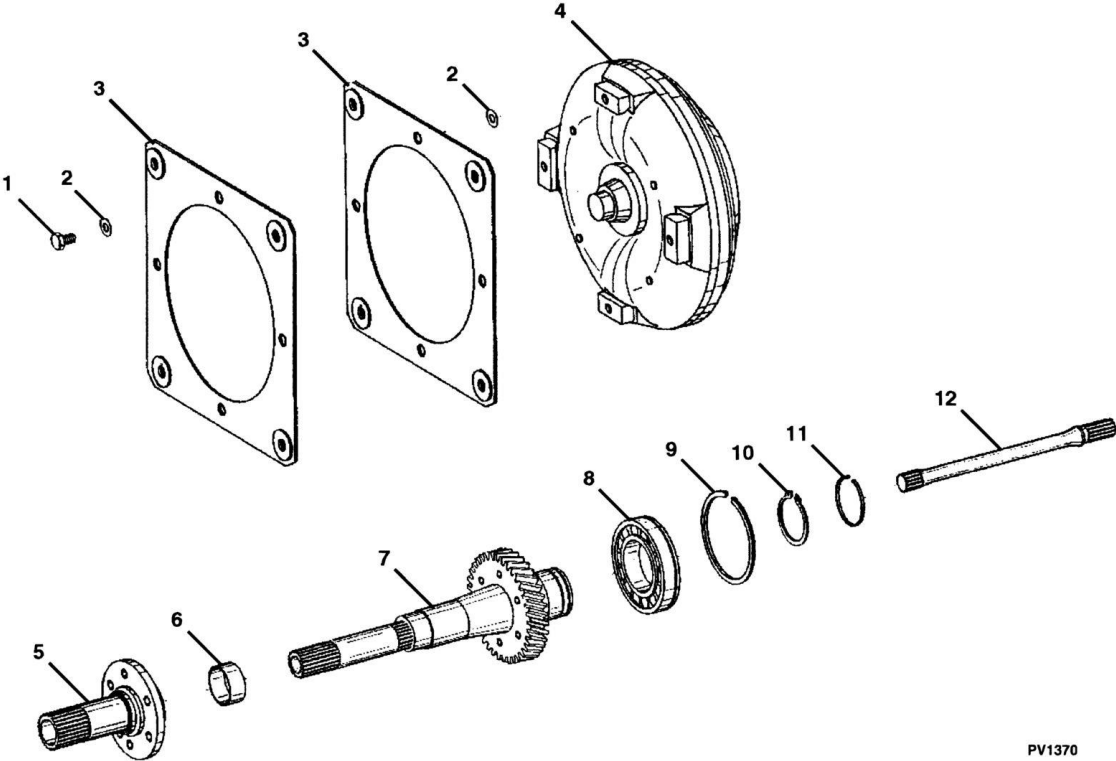
SECTION 5 - DRIVE TRAIN

FIGURE 5-23. REAR AXLE - PLANETARY DRIVE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70022242	2	Gear, Ring	
3	70022784	2	Shaft, Gear	
8	70022281	2	Planetary Carrier Assembly	
8A	70022283	1	Carrier, Planetary	
8B	70022243	1	Gear, Planetary	
8C	70024614	1	Bearing, Roller	
8D	70022197	4	Ring, Retaining	
18	70023404	2	Plug, Screw	
22	70022207	4	Screw, M12 x 30	
100	70024613	Ref	Hub (See REAR AXLE, JOINT HOUSING)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-24. ZF TRANSMISSION - CONVERTER AND INPUT



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SECTION 5 - DRIVE TRAIN

FIGURE 5-24. ZF TRANSMISSION - CONVERTER AND INPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4540013	Ref	ZF TRANSMISSION, (See ZF TRANSMISSION - CONVERTER AND INPUT thru ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK for Breakdown)	C
1	7026744	4	HEX SCREW	
2	7026745	8	WASHER	
3	1319229	2	DIAPHRAGM	
4	8036022	1	CONVERTER	
5	1319557	1	STATOR SHAFT	
6	1319558	1	BEARING BUSH	
7	8036023	1	TURBINE SHAFT	
8	1319563	1	BALL BEARING	
9	80304405	1	RETAINING RING	
10	10731913	1	SNAP RING	
11	7026749	1	PISTON RING	
12	1319566	1	CENTRAL SHAFT	

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PV1410

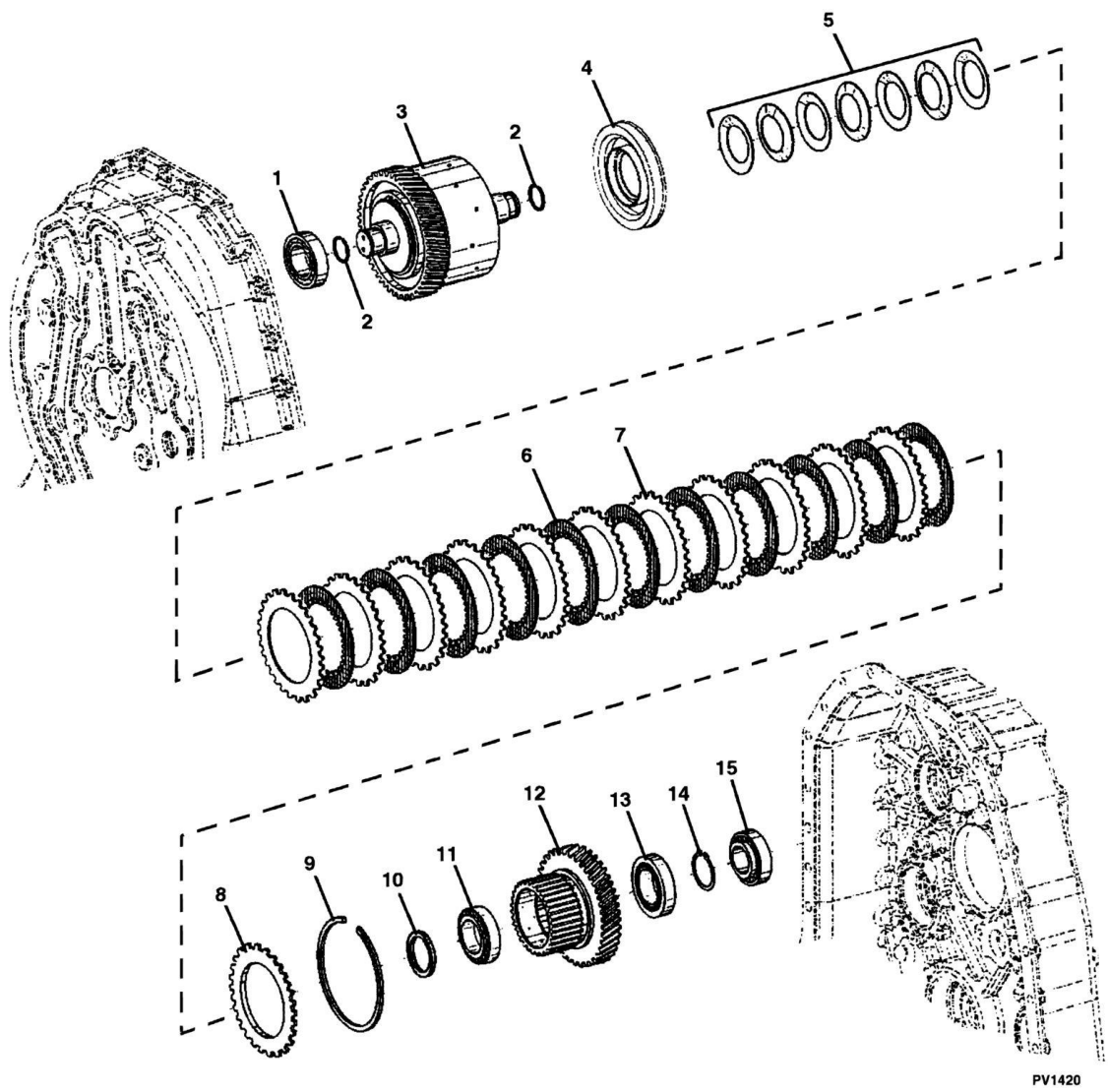
SECTION 5 - DRIVE TRAIN

FIGURE 5-25. ZF TRANSMISSION - GEARBOX HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319585	11	CAPSCREW	
2	1319584	6	FIXING PLATE	
3	1319583	6	O-RING	
4	1319586	1	PIPE	
5	1319587	1	PIPE	
6	8036027	1	PIPE	
7	8036026	1	SUCTION TUBE	
8	1319582	2	CAPSCREW	
9	1319581	1	O-RING	
10	1319571	2	CYLINDRICAL PIN	
11	1319590	1	BRACKET	
12	7026794	6	HEX SCREW	
13	80304394	59	HEX SCREW	
14	1319573	1	SCREW PLUG	
15	N.S.S.	1	TYPE PLATE	
16	1319578	1	SCREW PLUG	
17	1319576	1	SHAFT SEAL	
18	1319574	1	CONVERTER BELL	
19	10731744	1	BREATHER	
20	1319575	1	BEARING BUSH	
21	8036024	1	HOUSING	
22		Ref	STATOR SHAFT, (See ZF TRANSMISSION - CONVERTER AND INPUT for Breakdown)	
23	1319577	6	CAPSCREW	
24	1319585	11	CAPSCREW	
25	8036028	1	SCREEN SHAFT	
26	8036025	1	HOUSING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-26. ZF TRANSMISSION - REVERSING GEAR KV



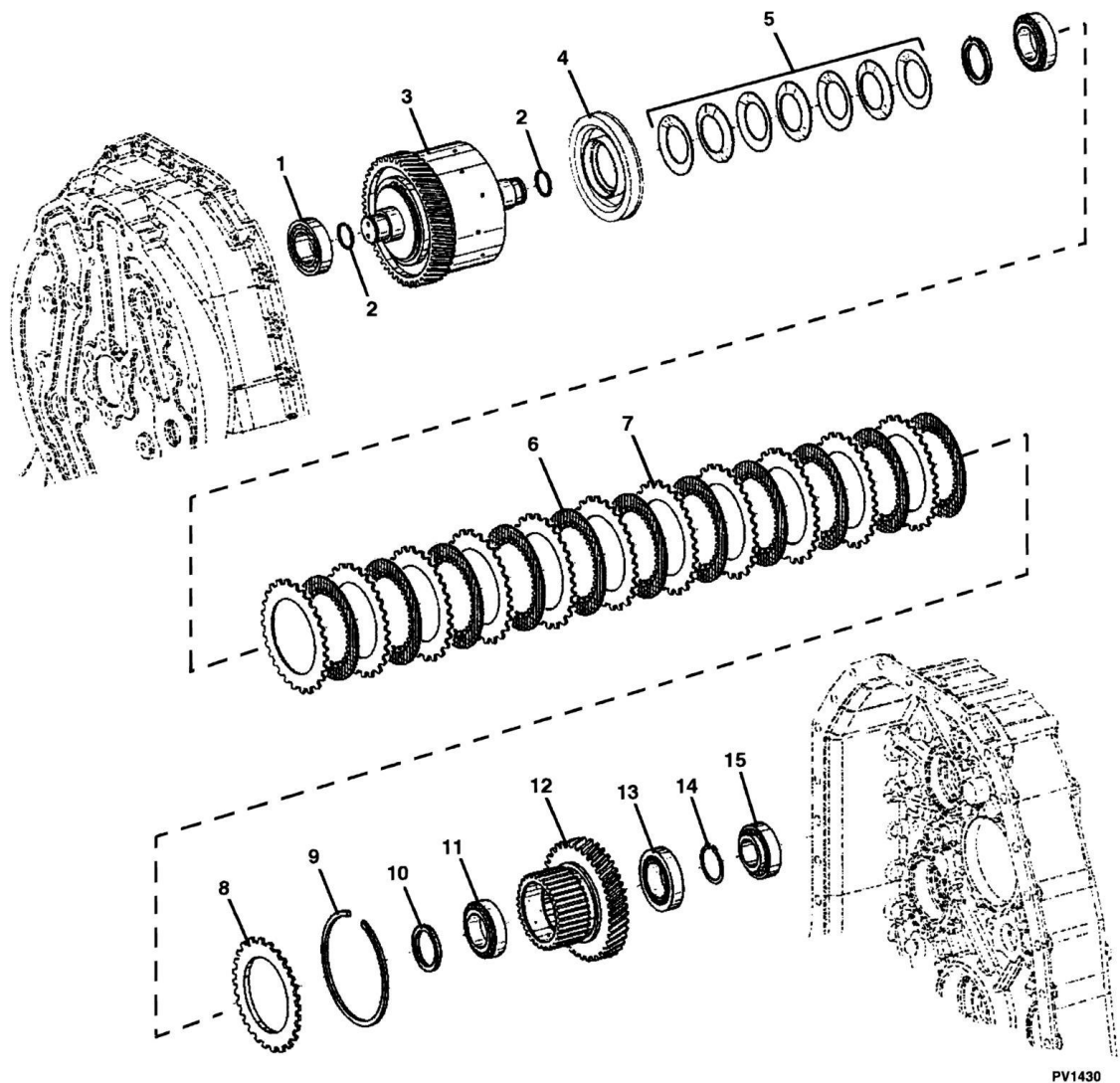
SECTION 5 - DRIVE TRAIN

FIGURE 5-26. ZF TRANSMISSION - REVERSING GEAR KV

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	ROLLER BEARING	
2	7026761	2	PISTON RING	
3	1319637	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	7	CUP SPRING	
6	7026758	11	LIN. CLUTCH DISC	
7	7026759	11	O. CLUTCH DISC	
8	7026760	1	END SHIM	
9	1319600	AR	SNAP RING, 3.5	
9	1319601	AR	SNAP RING, 3.5	
9	1319602	AR	SNAP RING, 3.0	
9	1319603	AR	SNAP RING, 2.5	
9	1319604	AR	SNAP RING, 2.0	
10	1319617	1	SUPPORT SHIM	
11	1319618	1	ROLLER BEARING	
12	1319638	1	DISC CARRIER	
13	1319620	1	ROLLER BEARING	
14	1319621	AR	RETAINING RING, 3.20	
14	1319622	AR	RETAINING RING, 3.10	
14	1319623	AR	RETAINING RING, 3.00	
14	1319624	AR	RETAINING RING, 2.90	
14	1319625	AR	RETAINING RING, 2.80	
14	1319626	AR	RETAINING RING, 2.70	
14	1319627	AR	RETAINING RING, 2.60	
15	1319636	1	ROLLER BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-27. ZF TRANSMISSION - REVERSING GEAR KR



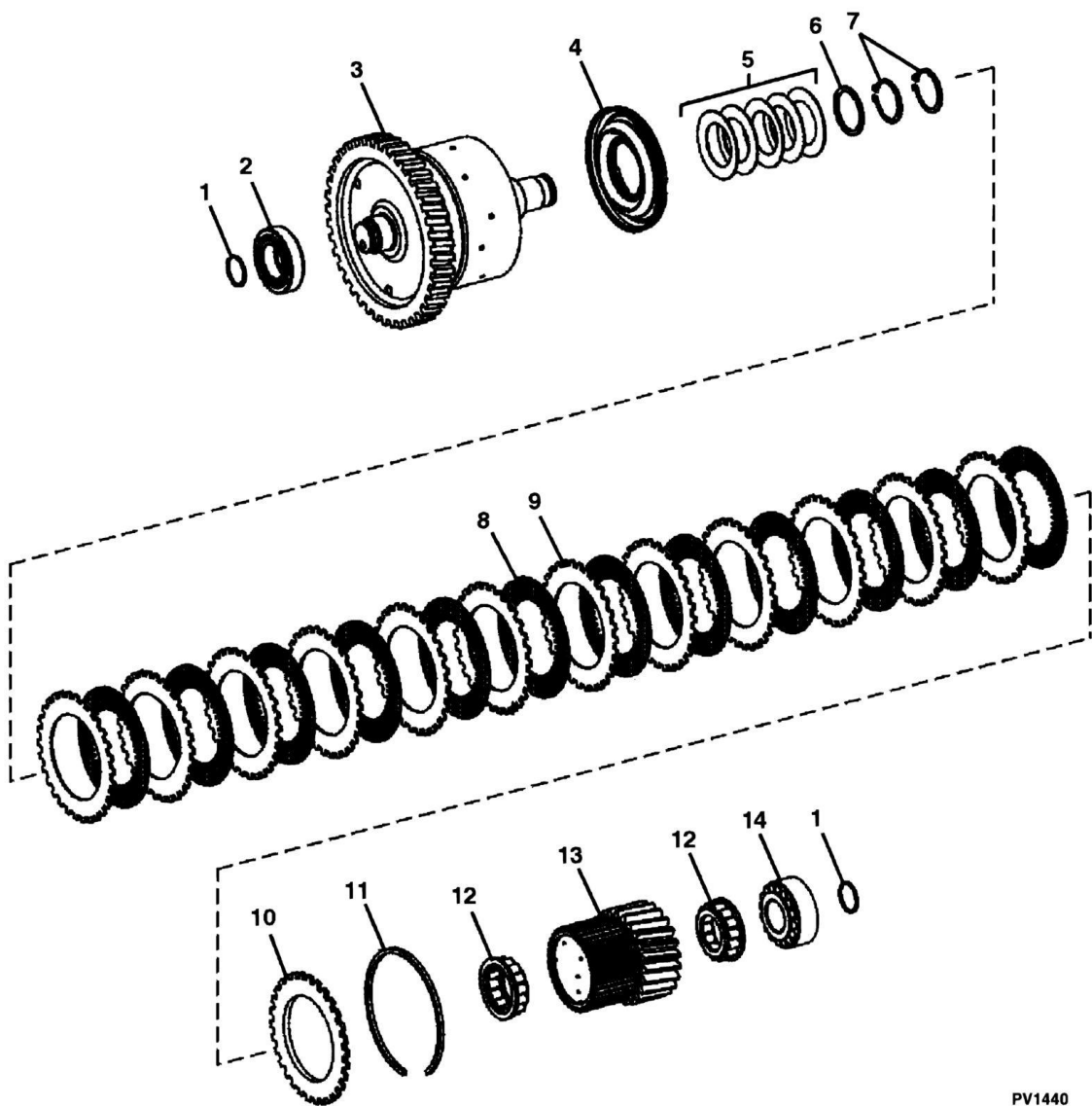
SECTION 5 - DRIVE TRAIN

FIGURE 5-27. ZF TRANSMISSION - REVERSING GEAR KR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319608	1	ROLLER BEARING	
2	7026761	2	PISTON RING	
3	1319639	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	7	CUP SPRING	
6	7026758	11	LIN. CLUTCH DISC	
7	7026759	11	O. CLUTCH DISC	
8	7026760	1	END SHIM	
9	1319600	AR	SNAP RING, 3.5	
9	1319601	AR	SNAP RING, 3.5	
9	1319602	AR	SNAP RING, 3.0	
9	1319603	AR	SNAP RING, 2.5	
9	1319604	AR	SNAP RING, 2.0	
10	1319617	1	SUPPORT SHIM	
11	1319618	1	ROLLER BEARING	
12	1319638	1	DISC CARRIER	
13	1319620	1	ROLLER BEARING	
14	1319621	AR	RETAINING RING, 3.20	
14	1319622	AR	RETAINING RING, 3.10	
14	1319623	AR	RETAINING RING, 3.00	
14	1319624	AR	RETAINING RING, 2.90	
14	1319625	AR	RETAINING RING, 2.80	
14	1319626	AR	RETAINING RING, 2.70	
14	1319627	AR	RETAINING RING, 2.60	
15	1319636	1	ROLLER BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-28. ZF TRANSMISSION - COUPLING GROUP K1



PV1440

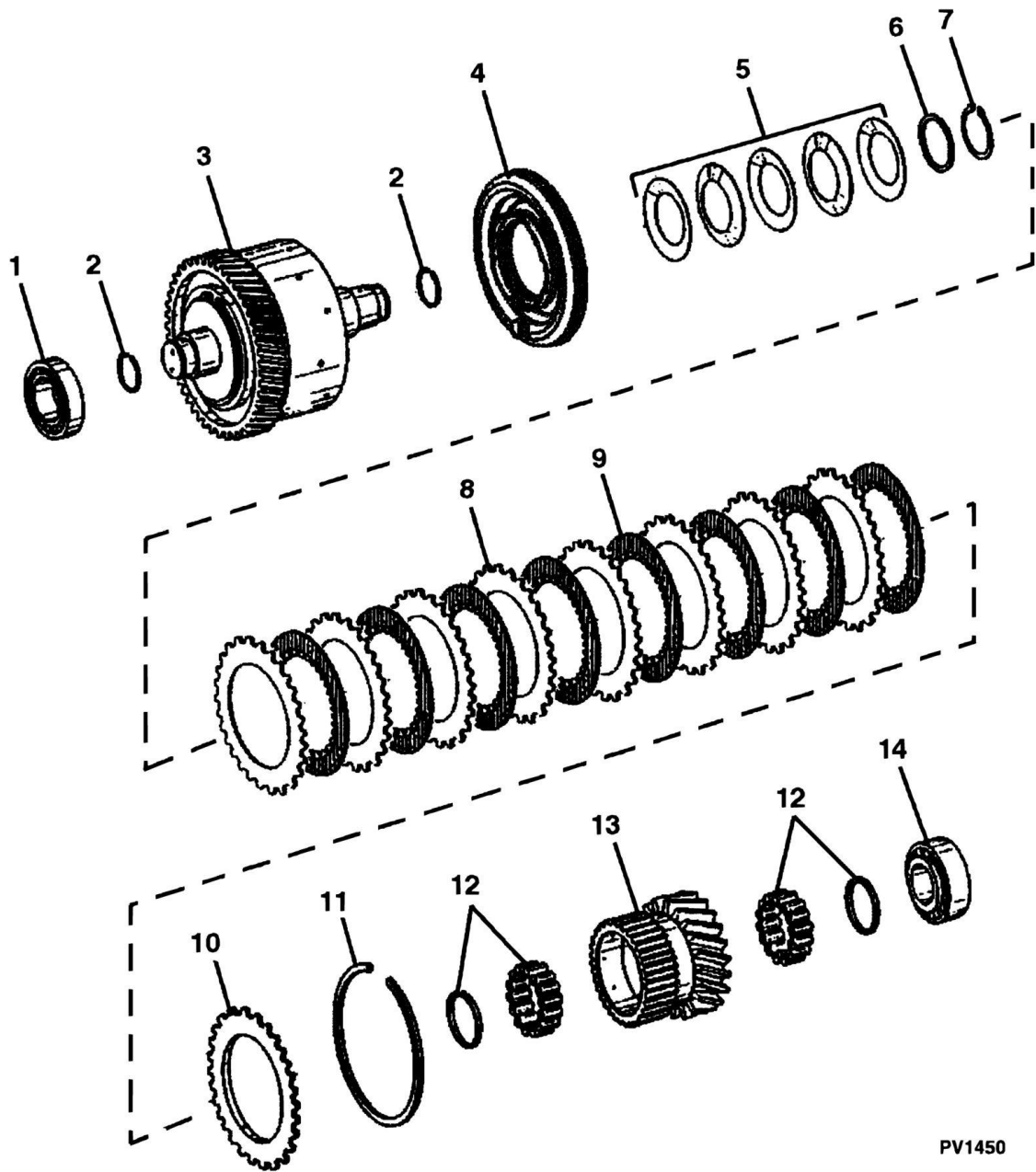
SECTION 5 - DRIVE TRAIN

FIGURE 5-28. ZF TRANSMISSION - COUPLING GROUP K1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319608	1	ROLLER BEARING	
3	1319591	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026758	12	LIN. CLUTCH DISC	
9	7026759	12	O. CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 3.5	
11	1319601	AR	SNAP RING, 3.5	
11	1319602	AR	SNAP RING, 3.0	
11	1319603	AR	SNAP RING, 2.5	
11	1319604	AR	SNAP RING, 2.0	
12	1319606	2	ROLLER CAGE	
13	1319607	1	DISC CARRIER	
14	7029532	1	OUTER RING	
14	7029533	1	INNER RING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-29. ZF TRANSMISSION - COUPLING GROUP K2



PV1450

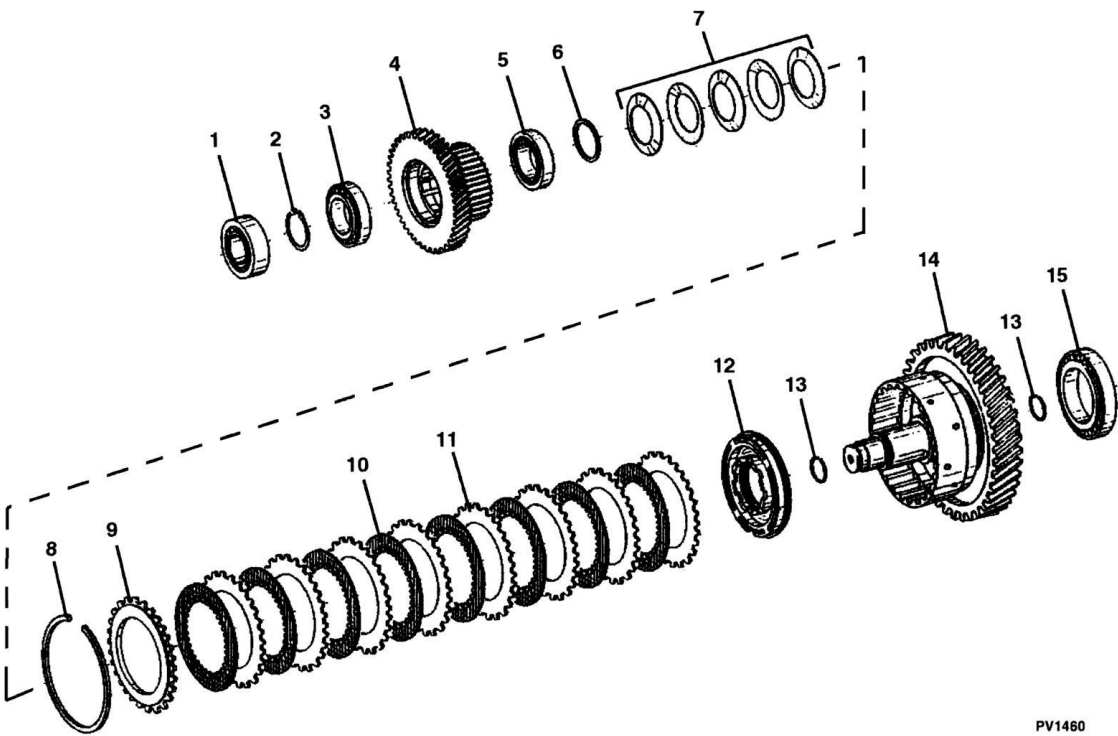
SECTION 5 - DRIVE TRAIN

FIGURE 5-29. ZF TRANSMISSION - COUPLING GROUP K2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	ROLLER BEARING	
2	7026761	2	PISTON RING	
3	1319613	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026759	8	O. CLUTCH DISC	
9	7026758	8	LIN. CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 3.5	
11	1319601	AR	SNAP RING, 3.5	
11	1319602	AR	SNAP RING, 3.0	
11	1319603	AR	SNAP RING, 2.5	
11	1319604	AR	SNAP RING, 2.0	
12	1319606	2	ROLLER CAGE	
13	1319614	1	DISC CARRIER	
14	7029532	1	OUTER RING	
14	7029533	1	INNER RING	

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FIGURE 5-30. ZF TRANSMISSION - COUPLING GROUP K3



PV1460

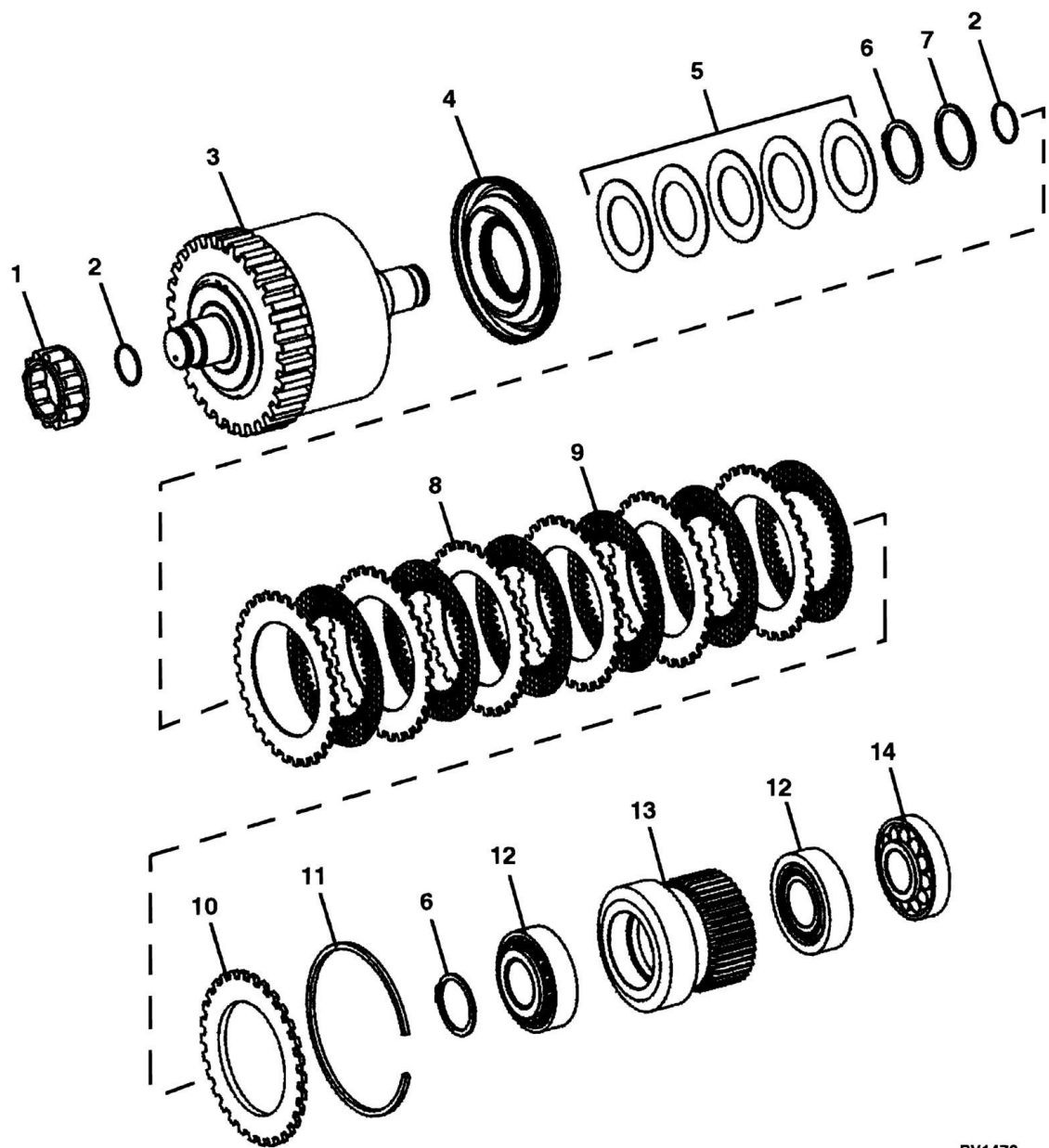
SECTION 5 - DRIVE TRAIN

FIGURE 5-30. ZF TRANSMISSION - COUPLING GROUP K3

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7029532	1	OUTER RING	
1	7029533	1	INNER RING	
2	1319621	AR	RETAINING RING, 3.20	
2	1319622	AR	RETAINING RING, 3.10	
2	1319623	AR	RETAINING RING, 3.00	
2	1319624	AR	RETAINING RING, 2.90	
2	1319625	AR	RETAINING RING, 2.80	
2	1319626	AR	RETAINING RING, 2.70	
2	1319627	AR	RETAINING RING, 2.60	
3	1319620	1	ROLLER BEARING	
4	1319619	1	DISC CARRIER	
5	1319618	1	ROLLER BEARING	
6	1319617	1	SUPPORT SHIM	
7	1319595	5	CUP SPRING	
8	1319600	AR	SNAP RING, 3.5	
8	1319601	AR	SNAP RING, 3.5	
8	1319602	AR	SNAP RING, 3.0	
8	1319603	AR	SNAP RING, 2.5	
8	1319604	AR	SNAP RING, 2.0	
9	7026760	1	END SHIM	
10	7026758	8	LIN. CLUTCH DISC	
11	7026759	8	O. CLUTCH DISC	
12	8036575	1	PISTON	
13	7026761	2	PISTON RING	
14	1319616	1	COUPLING	
15	1319633	1	ROLLER BEARING	

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FIGURE 5-31. ZF TRANSMISSION - COUPLING GROUP K4



PV1470

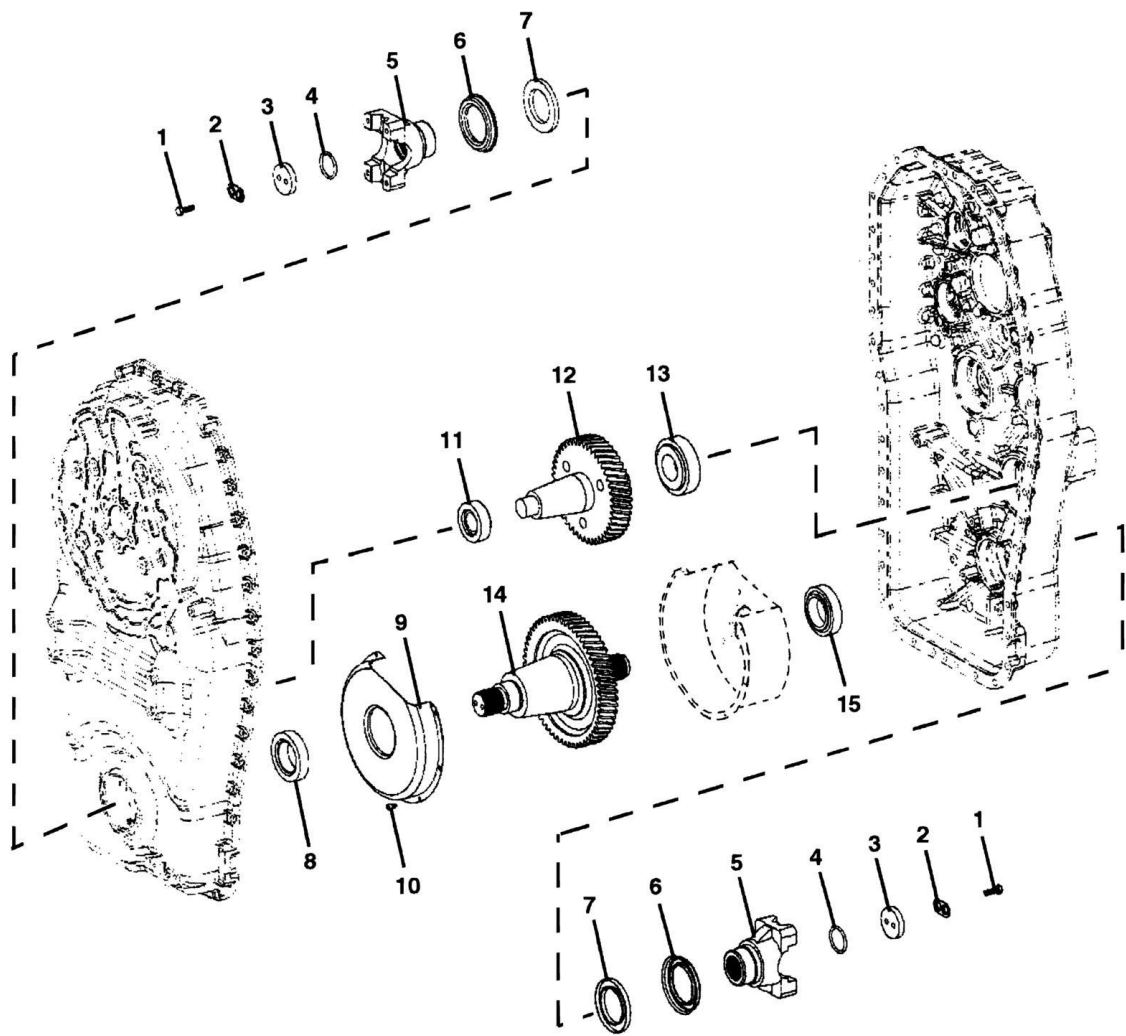
SECTION 5 - DRIVE TRAIN

FIGURE 5-31. ZF TRANSMISSION - COUPLING GROUP K4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	ROLLER BEARING	
2	7026761	2	PISTON RING	
3	1319634	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	5	CUP SPRING	
6	10731845	2	RETAINING RING	
7	1319596	1	SHIM	
8	7026759	8	O. CLUTCH DISC	
9	7026758	8	LIN. CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 3.5	
11	1319601	AR	SNAP RING, 3.5	
11	1319602	AR	SNAP RING, 3.0	
11	1319603	AR	SNAP RING, 2.5	
11	1319604	AR	SNAP RING, 2.0	
12	1319606	2	ROLLER CAGE	
13	1319635	1	DISC CARRIER	
14	1319636	1	ROLLER BEARING	

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FIGURE 5-32. ZF TRANSMISSION - OUTPUT



PV1480

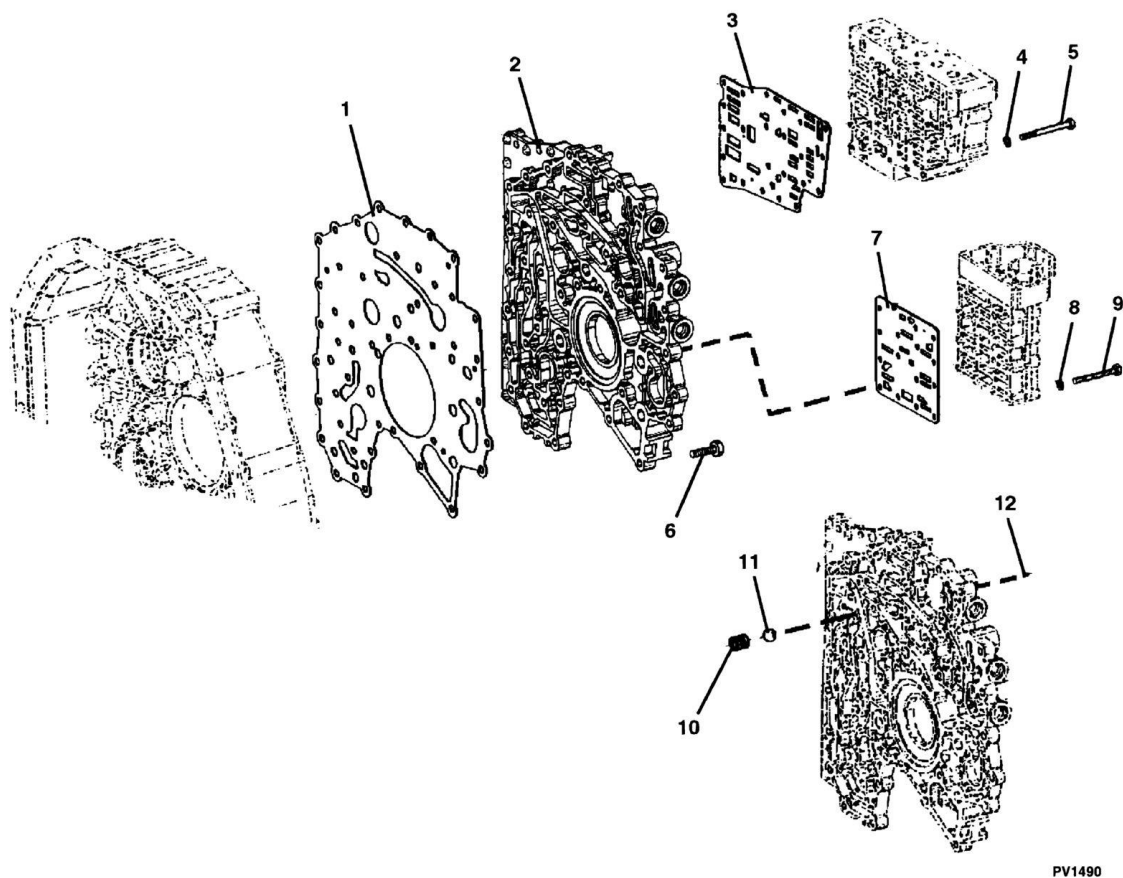
SECTION 5 - DRIVE TRAIN

FIGURE 5-32. ZF TRANSMISSION - OUTPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10731959	4	HEX SCREW	
2	1319649	2	TAB WASHER	
3	1319648	2	WASHER	
4	10839156	2	O-RING	
5	1319642	2	OUTPUT FLANGE	
6	1319647	2	SCREEN SHEET	
7	1319641	2	SHAFT SEAL	
8	N.S.S.	1	ROLLER BEARING ASSY	
8	70020430	1	CUP	
8	70020431	1	CONE	
9	8036031	1	SCREEN SHEET	
10	1319646	7	CAPSCREW	
11	7029532	1	OUTER RING	
11	7029533	1	INNER RING	
12	8036032	1	INTERM. SHAFT	
13	1319633	1	ROLLER BEARING	
14	7029029	1	OUTPUT SHAFT	
15	N.S.S.	1	ROLLER BEARING ASSY	
15	70020430	1	CUP	
15	70020431	1	CONE	

SECTION 5 - DRIVE TRAIN

FIGURE 5-33. ZF TRANSMISSION - CONTROL UNIT



PV1490

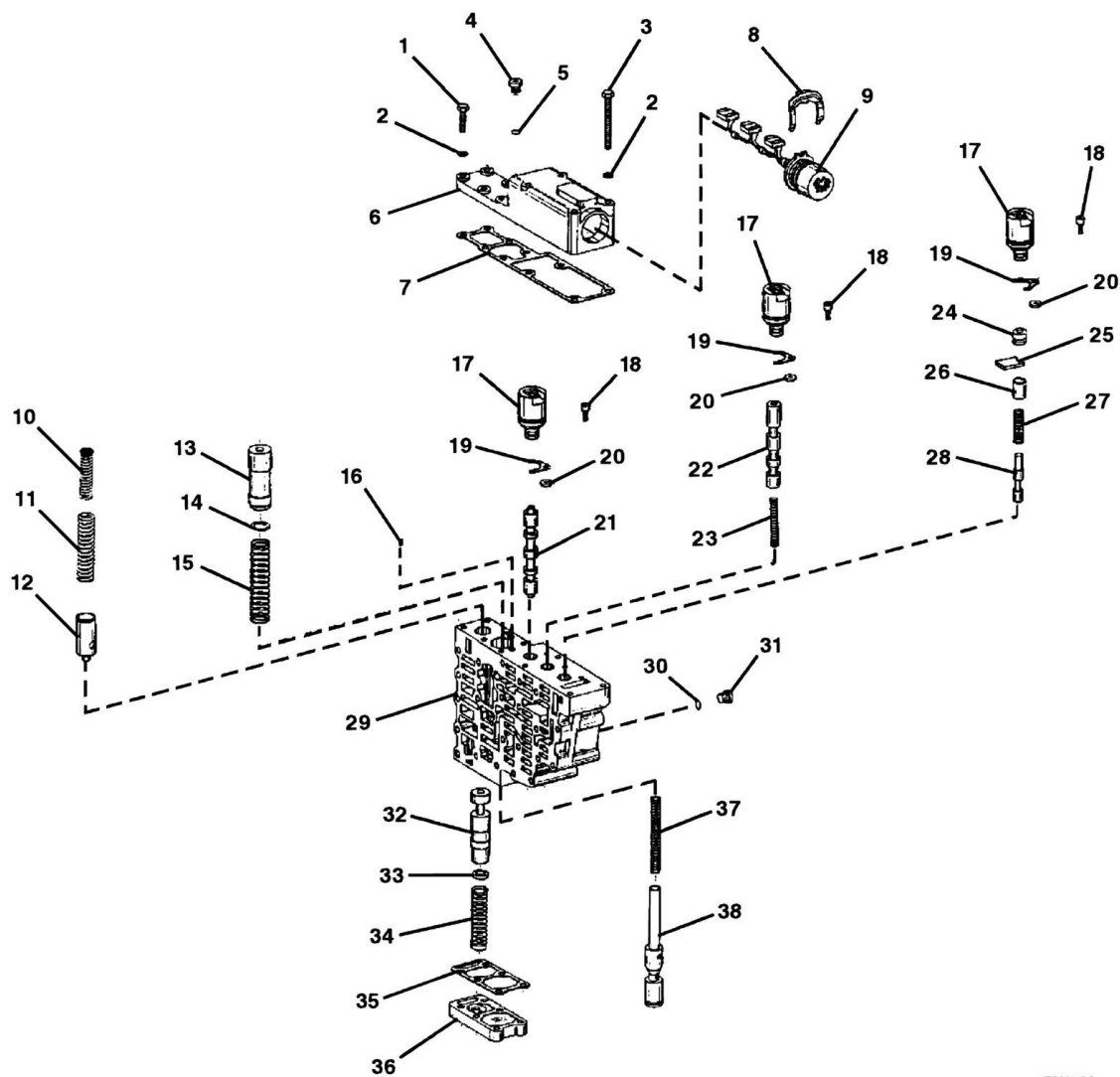
SECTION 5 - DRIVE TRAIN

FIGURE 5-33. ZF TRANSMISSION - CONTROL UNIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319650	1	GASKET	
2	7029035	1	DUCT PLATE	
3	8036034	1	INTERM. SHEET, (previous design)	
3	70020425	1	INTERM. SHEET, (current design)	
4	1319661	19	WASHER	
5	7029037	19	HEX SCREW	
6	7029036	43	TORX SCREW	
7	8036035	1	INTERM. SHEET, (previous design)	
7	70020426	1	INTERM. SHEET, (current design)	
8	1319661	15	WASHER	
9	1321265	15	HEX SCREW	
10	10732072	1	COMPRESSION SPRING	
11	10732071	1	BALL	
12	1319652	1	ORIFICE	

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FIGURE 5-34. ZF TRANSMISSION - GEARSHIFT SYSTEM



PV1500

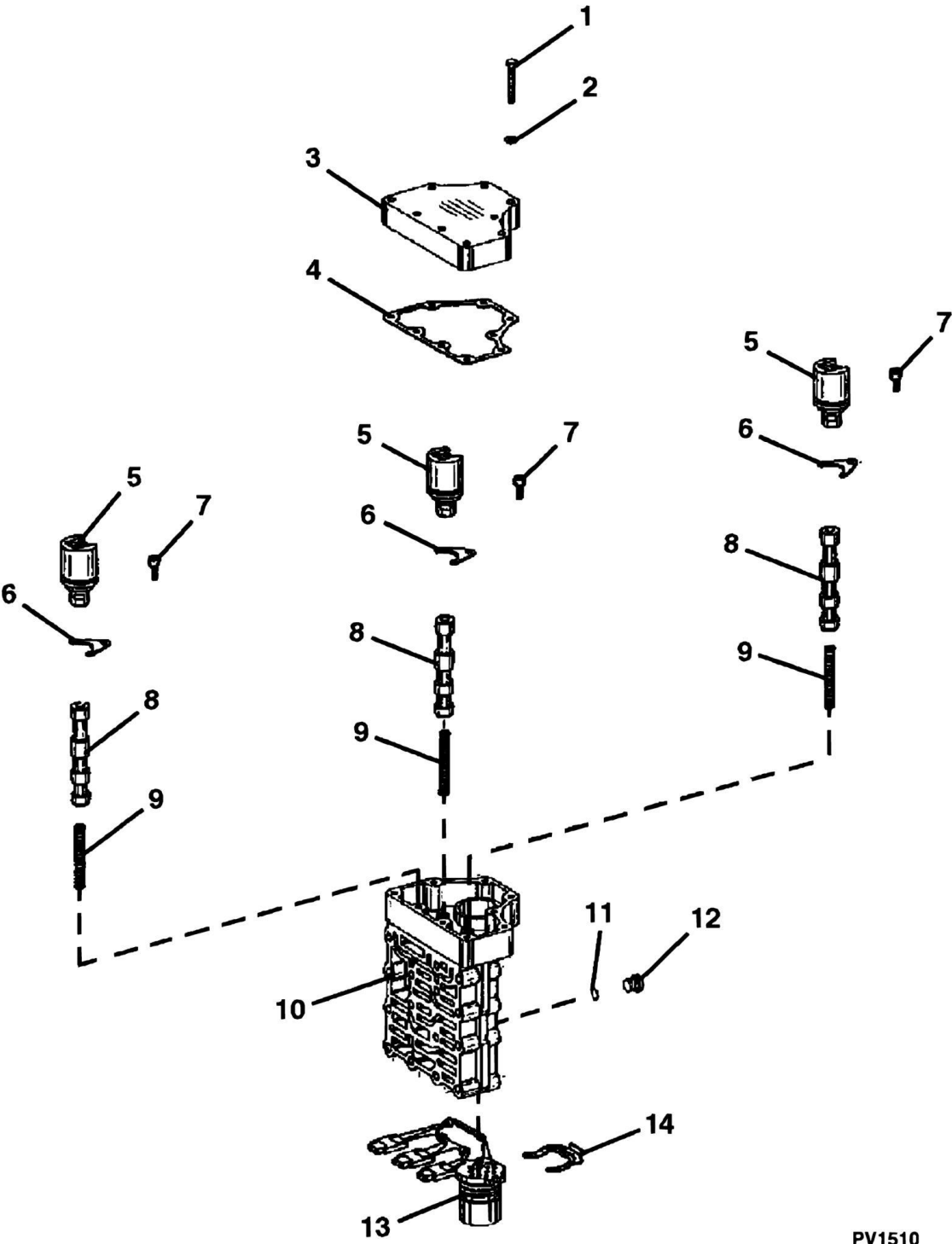
SECTION 5 - DRIVE TRAIN

FIGURE 5-34. ZF TRANSMISSION - GEARSHIFT SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319693	6	HEX SCREW	
2	1319661	10	WASHER	
3	7029037	4	HEX SCREW	
4	1319670	1	SCREW PLUG	
5	10731709	1	O-RING	
6	8036039	1	COVER	
7	1319705	1	GASKET	
8	1319707	1	RETAINING CLAMP	
9	1319704	1	WIRING HARNESS	
10	8036038	1	COMPRESSION SPRING	
11	1319673	1	COMPRESSION SPRING	
12	7029039	1	PISTON	
13	1319690	1	PISTON	
14	1319685	AR	WASHER, 2.0	
	1319686	AR	WASHER, 1.0	
	1319687	AR	WASHER, 0.5	
	1319688	AR	WASHER, 0.3	
	1319689	AR	WASHER, 0.2	
15	1319683	1	COMPRESSION SPRING	
16	7029052	1	ORIFICE	
17	1319702	3	SOLENOID VALVE	
18	1319703	3	CAPSCREW	
19	10732063	3	FIXING PLATE	
20	10732064	3	WASHER	
21	1319694	1	VALVE	
22	1319695	1	PISTON	
23	1319696	1	COMPRESSION SPRING	
24	1319700	1	PLUG	
25	1319701	1	FIXING PLATE	
26	1319699	1	SPACER SLEEVE	
27	1319698	1	COMPRESSION SPRING	
28	1319697	1	PISTON	
29	1319671	1	VALVE HOUSING	
30	10731709	7	O-RING	
31	1319670	7	SCREW PLUG	
32	1319674	1	PISTON	
33	1319675	AR	SPACER RING, 3.6	
	1319676	AR	SPACER RING, 3.2	
	1319677	AR	SPACER RING, 2.8	
	1319678	AR	SPACER RING, 2.4	
	1319679	AR	SPACER RING, 2.0	
34	1319680	1	COMPRESSION SPRING	
35	1319691	1	GASKET	
36	1319692	1	COVER	
37	1319684	1	COMPRESSION SPRING	
38	1319681	1	CONTROL PISTON	

SECTION 5 - DRIVE TRAIN

FIGURE 5-35. ZF TRANSMISSION - GEARSHIFT SYSTEM



PV1510

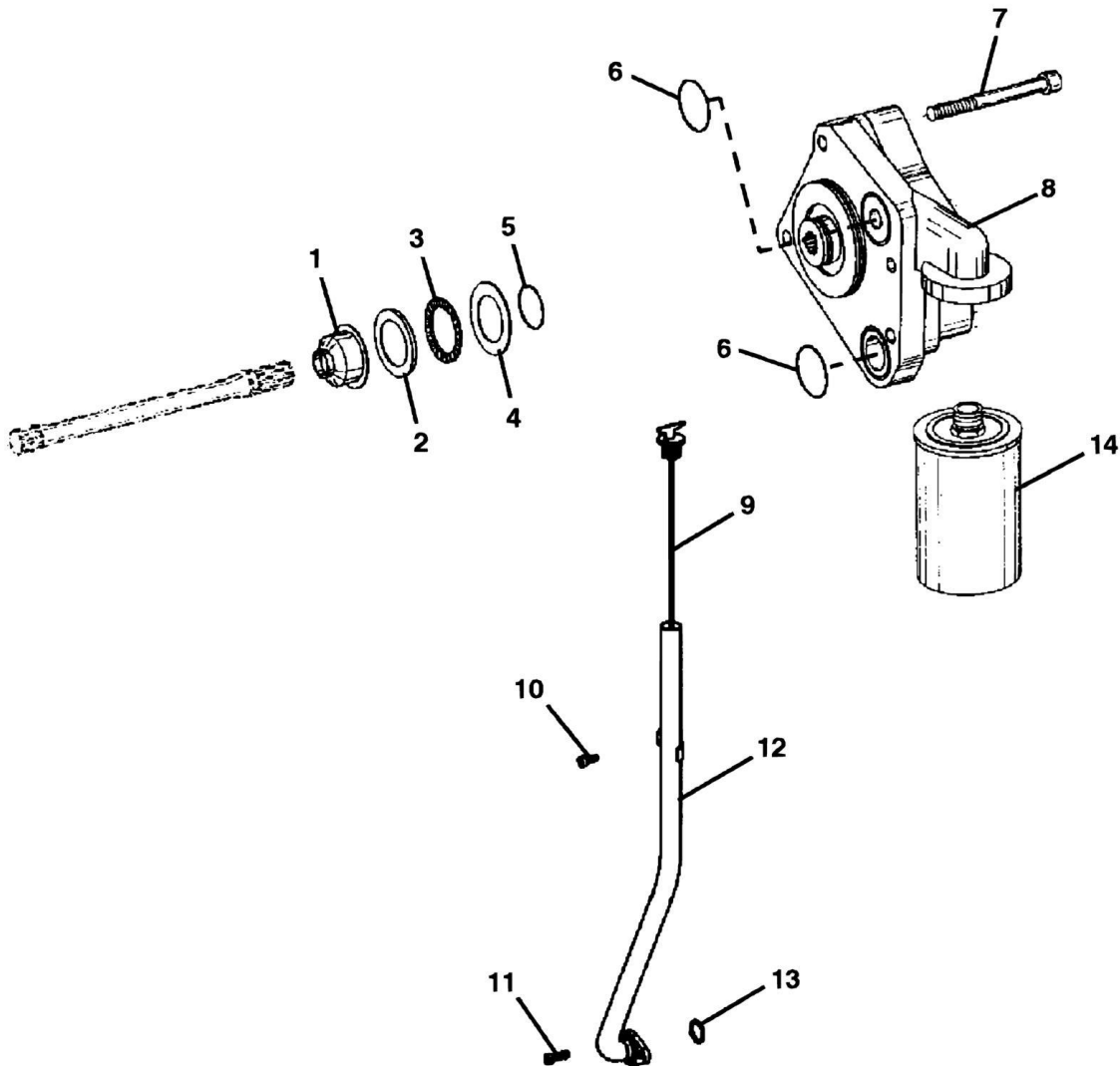
SECTION 5 - DRIVE TRAIN

FIGURE 5-35. ZF TRANSMISSION - GEARSHIFT SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319714	9	HEX SCREW	
2	1319715	9	WASHER	
3	1319713	1	COVER	
4	1319712	1	GASKET	
5	1319702	3	SOLENOID VALVE	
6	10732063	3	FIXING PLATE	
7	1319703	3	CAPSCREW	
8	1319710	3	PISTON	
9	1319696	3	COMPRESSION SPRING	
10	70020427	1	VALVE BLOCK	
11	10731709	3	O-RING	
12	1319670	3	SCREW PLUG	
13	1319711	1	WIRING HARNESS	
14	1319707	1	RETAINING	

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FIGURE 5-36. ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK



PV1520

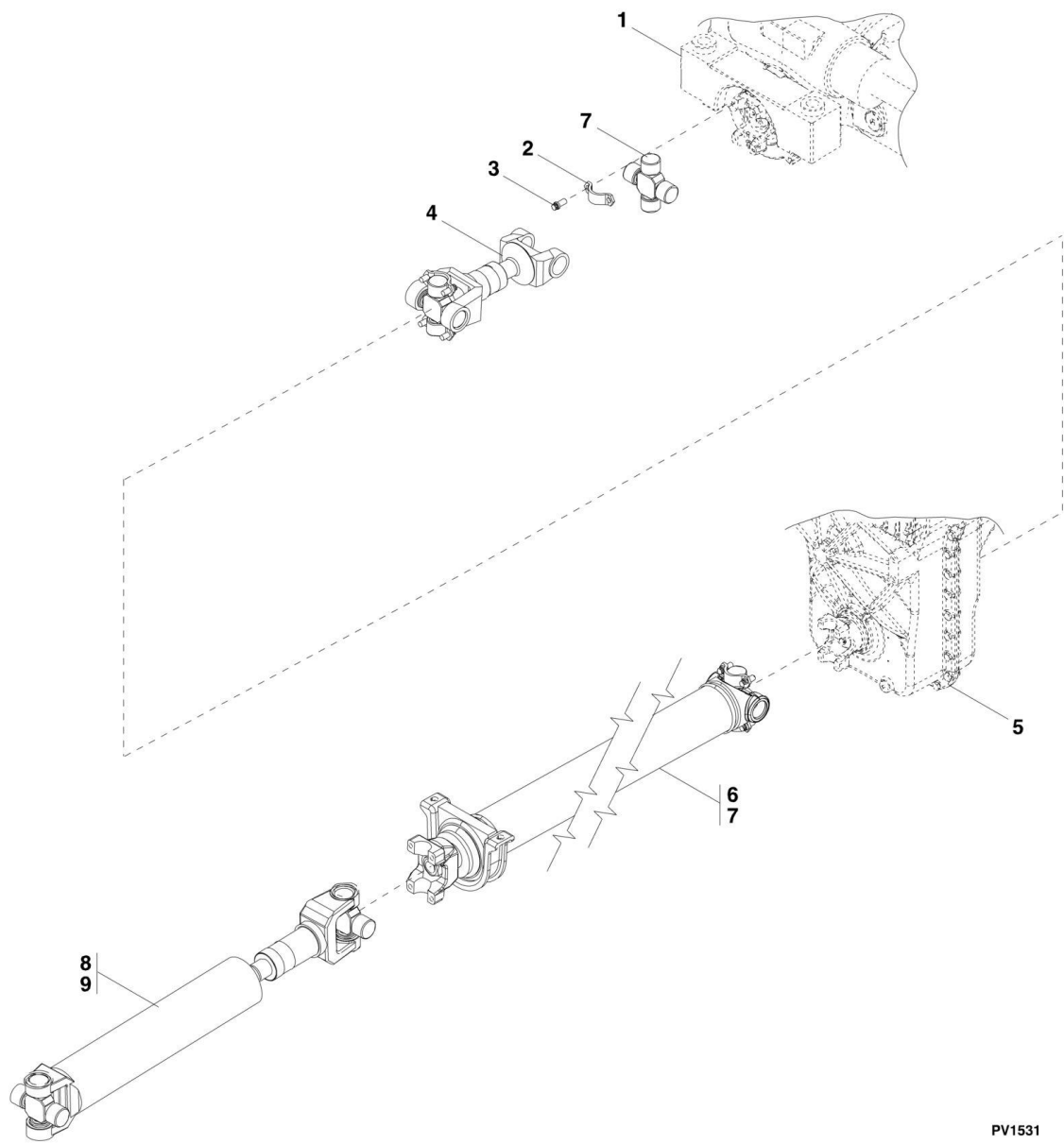
SECTION 5 - DRIVE TRAIN

FIGURE 5-36. ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319723	1	STOP SLEEVE	
2	1319722	1	ANGLE DISC	
3	1319721	1	AX. NEEDLE CAGE	
4	1319720	1	AXIAL WASHER	
5	1319724	1	O-RING	
6	1319719	2	O-RING	
7	80304214	4	CAPSCREW	
8	7029074	1	PUMP	
9	7029914	1	OIL DIPSTICK	
10	1319585	1	CAPSCREW	
11	1319582	2	CAPSCREW	
12	7029913	1	OIL TUBE	
13	1319581	1	O-RING	
14	1319726	1	FILTER	

SECTION 5 - DRIVE TRAIN

FIGURE 5-37. DRIVE SHAFT



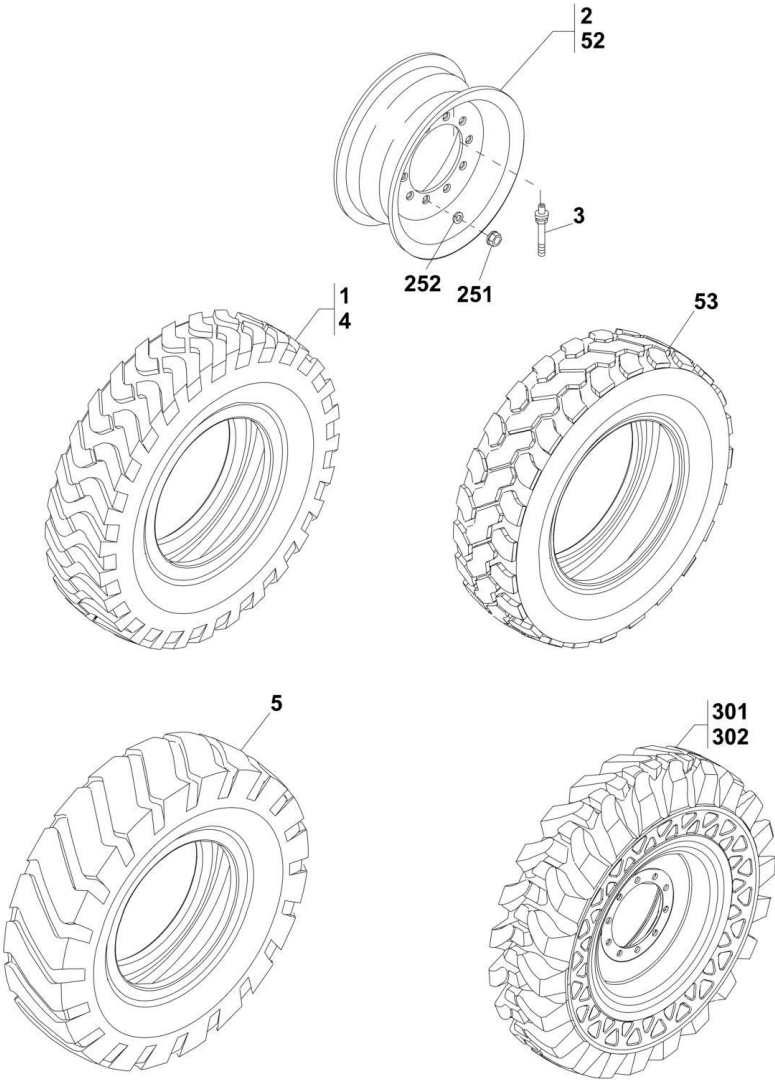
SECTION 5 - DRIVE TRAIN

FIGURE 5-37. DRIVE SHAFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	REAR AXLE ASSEMBLY, (See REAR AXLE ASSEMBLY for Breakdown)	
2	91473027	10	BEARING STRAP	
3	91473028	20	STRAP BOLT, (torque to 55-60 lb-ft), (must replace when removed, do not re-torque)	
4	4040282	1	DRIVESHAFT, (includes item 7)	
5		Ref	TRANSMISSION, (See ZF TRANSMISSION - CONVERTER AND INPUT for Breakdown)	
6	91563209	1	REAR DRIVESHAFT, (includes item 7)	
7	7026911	2	UNIVERSAL JOINT KIT	
8	91473151	1	FRONT DRIVESHAFT, (includes item 9)	
9	91474035	1	UNIVERSAL JOINT KIT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-38. TIRES AND RIMS



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SECTION 5 - DRIVE TRAIN

FIGURE 5-38. TIRES AND RIMS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4520400	2	LH TIRE ASSY, HYDRO FILLED, 14x24 12 PLY, (includes items 2 thru 4)	B
	4520401	2	RH TIRE ASSY, HYDRO FILLED, 14X24 12 PLY, (includes items 2 thru 4)	B
	4520398	2	LH TIRE ASSY, FOAM FILLED, 14x24 12 PLY, (includes items 2 thru 4)	B
	4520399	2	RH TIRE ASSY, FOAM FILLED, 14x24 12 PLY, (includes items 2 thru 4)	B
	4520396	4	TIRE ASSY, FOAM FILLED, 14X24 RADIAL, (includes items 1 thru 3)	B
	4520397	4	TIRE ASSY, FOAM FILLED, 14X24 RADIAL, (includes items 1 thru 3)	B
	4520500	4	TIRE ASSY, HYDRO FILLED, 14X24 RADIAL, (includes items 2, 3 & 5)	A
	4520502	4	TIRE ASSY, FOAM FILLED, 14X24 RADIAL, (includes items 2, 3 & 5)	A
	1001126344	1	TIRE AND RIM ASSY, 400/75-28, 16PLY, (includes items 3, 52 & 53)	A
	1001121104	1	TIRE AND RIM ASSY, 400/75-28, 16PLY, FOAM FILLED, 570LB, (includes items 3, 52 & 53)	A
1	91363215	1	TIRE, 14X24 RADIAL, BRIDGESTONE	
2	7301054	1	RIM, 9x24x9mm, 1.06 OFFSET	
3	8786514	1	VALVE	
4	91043084	1	TIRE, 14x24, FIRESTONE	
5	91543002	1	GRADER TIRE, 14X24	
52	1001100009	1	RIM, 28X12, 1.18 OFFSET	
53	1001120179	1	TIRE, 400/75-28, 16PLY	
251		Ref	WHEEL NUT, (See DRIVE TRAIN COMPONENT for Breakdown)	
252		Ref	LOCK WASHER, (See DRIVE TRAIN COMPONENT for Breakdown)	
301	1001151103	2	LH SOLIDEAL TIRE, 14.00-24	
302	1001151104	2	RH SOLIDEAL TIRE, 14.00-24	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE TIRE ONLY. ITEM NUMBERS NOT LISTED ARE NOT USED ON THIS FIGURE.	
N2	Note	Ref		

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FIGURE 6-1. OPERATORS COMPARTMENT ASSEMBLY

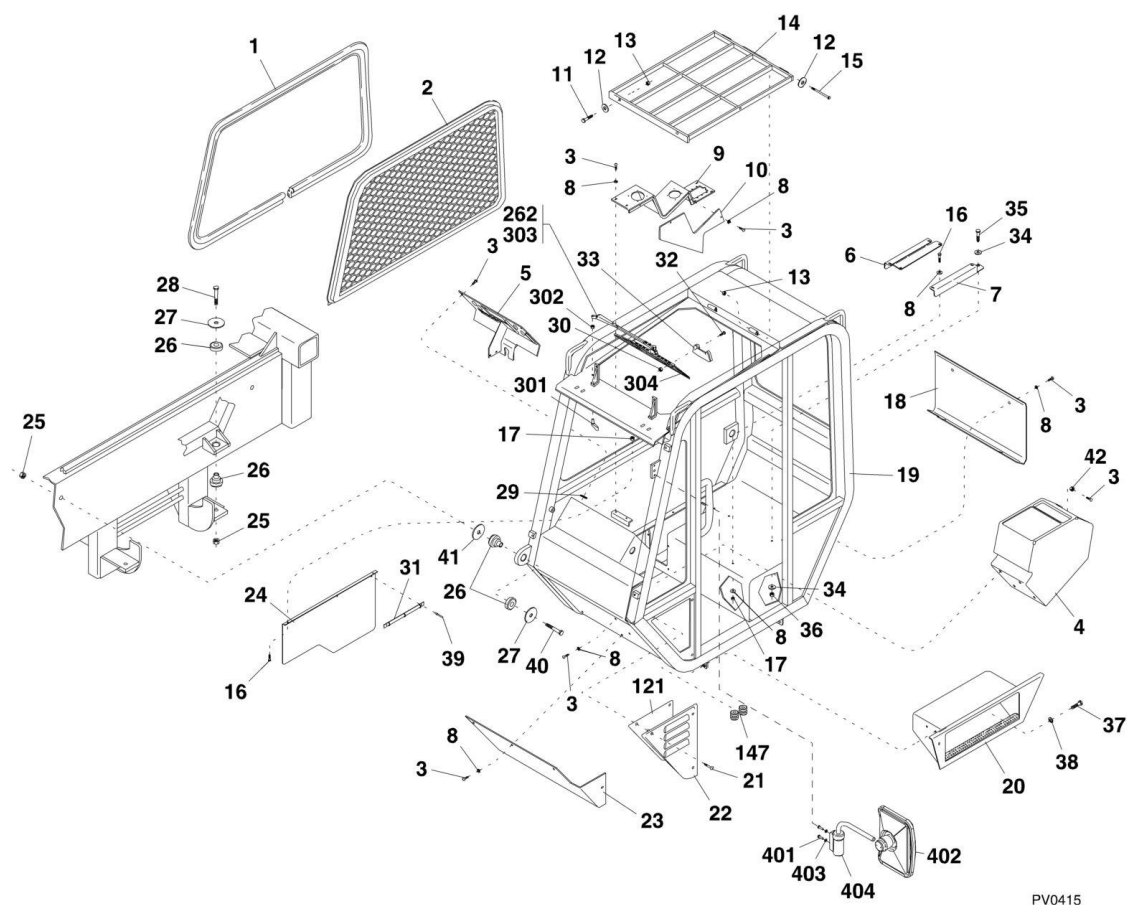


FIGURE 6-1. OPERATORS COMPARTMENT ASSEMBLY

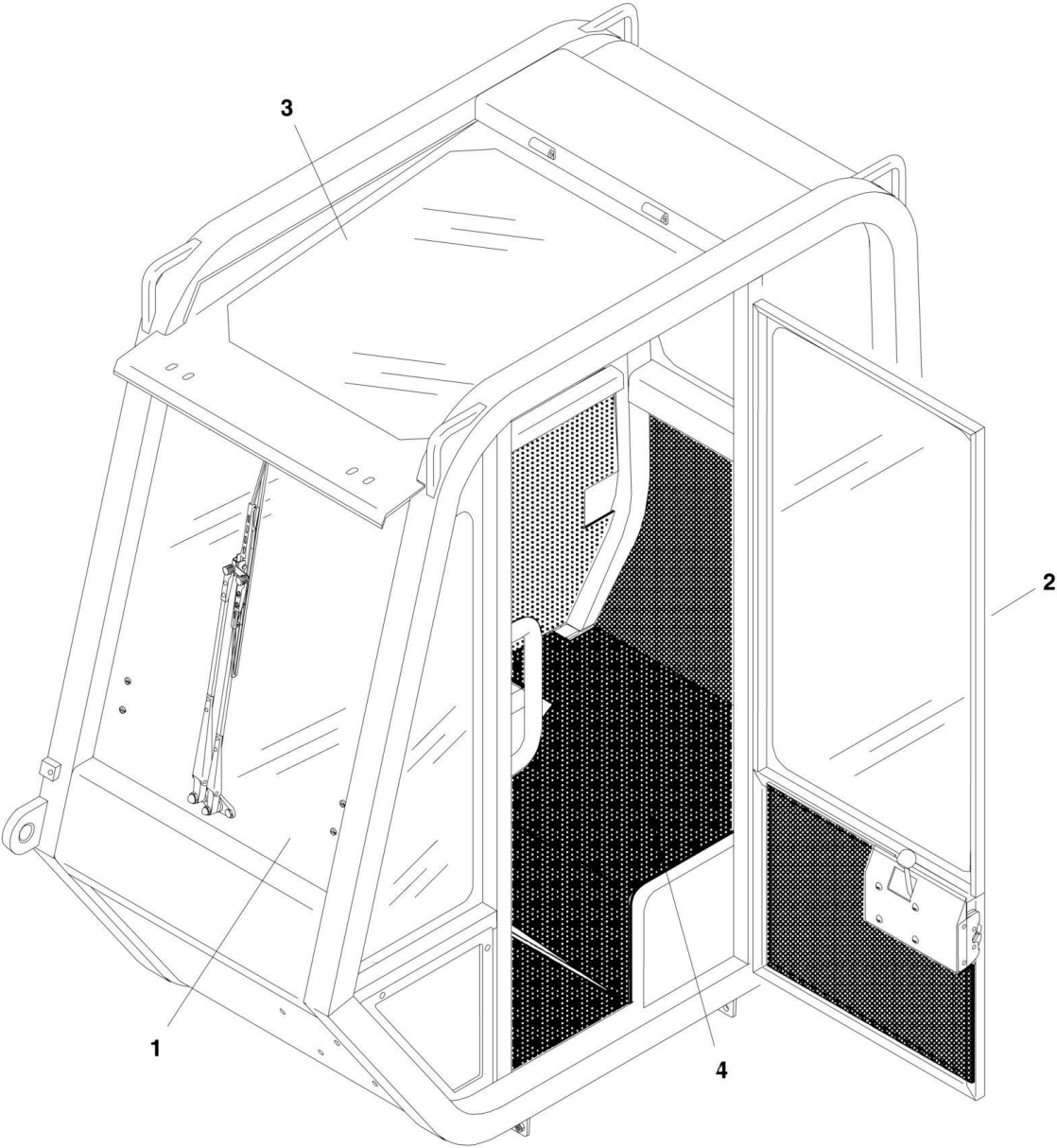
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10467146	Ref	OPEN CAB ASSY, (includes items 1 thru 23 & item 42)	I
	10467361	Ref	ENCLOSED CAB ASSY, (includes items 3, 5 thru 24, 262, 301 thru 304 and all items on CAB ENCLOSURE KIT)	K
1	1012354	1	RUBBER LOCKING CHANNEL	
2	10339390	1	SLIDE SCREEN	
3	10727829	24	PHILLIPS TRUSS HD SCREW, 5/16-18X3/4	
4	10267147	1	STORAGE BOX	
5		Ref	INSTRUMENT PANEL, (See INSTRUMENT PANEL ASSEMBLY for Breakdown)	
6	10265863	1	RIGHT SEAT MOUNT	
7	10265862	1	LEFT SEAT MOUNT	
8	10701403	20	FLAT WASHER, 5/16	
9	10336383	1	WELDMENT (Prior to SN 0160048698)	
9	1001143667	1	WELDMENT (SN 0160048698 to Present)	
10	10236436	1	CONTROL PANEL SIDE COVER	
11	10700234	2	HEX HD CAPSCREW, 3/8-16X1-3/4, GR8	
12	10701404	4	FLAT WASHER, 3/8	
13	10701658	4	HEX LOCKNUT, 3/8-16	
14	10336887	1	OVERHEAD GUARD	
15	10700245	2	HEX HD CAPSCREW, 3/8-16X5, GR8	
16	10700102	7	HEX HD CAPSCREW, 5/16-18X3/4	
17	10701507	6	HEX NUT, 5/16-18	
18	10236381	1	REAR COVER	
19	10439443	1	CAB WELDMENT, (open cab)	
19	10467366	1	CAB WELDMENT, (enclosed cab)	
20	10236955	1	OPERATORS STEP	
21	10837113	3	PHILLIPS TRUSS HD SCREW, 5/16-18X1-1/2, (open cab)	
21	10337113	3	PHILLIPS TRUSS HD SCREW, 5/16-18X1-3/4, (enclosed cab)	
22	10236849	1	SIDE COVER	
23	10236958	1	FRONT COVER	
24	10236542	1	MOUNTING PLATE DECAL	
25	10705006	4	HEX LOCKNUT, 5/8-11	
26	10733152	4	TWO PIECE RUBBER MOUNT	
27	10136262	4	SNUBBING WASHER	
28	10700642	2	HEX HD CAPSCREW, 5/8-1X4-1/2, GR8	
29	8305906	4	NUT	
30	10705103	2	FLANGE NUT (SN 0160009654 through 0160014307, Including 0160008714)	
31	10138718	1	3-RING HANGER FLIP CARD	
32	10702034	2	ROUND HD SLOTTED SCREW, #8-32X1/2 (SN 0160009654 through 0160014307, Including 0160008714)	
33	N.S.S.	NLA	LEVEL INDICATOR , (no longer available, use 8466306 for replacement) (SN 0160009654 through 0160014307, Including 0160008714)	
33	8466306	1	LEVEL INDICATOR, (with adhesive) (SN 0160014308 to Present)	
34	107012533	4	FLAT WASHER, 7/16	
35	10700303	2	HEX HD CAPSCREW, 7/16-14X1-1/4	
36	10705003	2	HEX LOCKNUT, 7/16-14	
37	10700202	4	HEX HD CAPSCREW, 3/8-16X3/4	
38	10701310	4	LOCKWASHER, 3/8	
39	10732958	4	ALUMINUM POP-RIVET, 1/8X.33 LONG	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
40	10700641	2	HEX HD CAPSCREW, 5/8-11X4, GR8	AA
41	10115616	2	WASHER	
42	10705107	1	HEX NUT, 5/16-18	
121	10236427	1	FRESH AIR FILTER	
147	10867157	2	RUBBER GROMMET	
262	1100139-OM	1	Manual Wiper Assy	
301	1100140-OM	1	Wiper Handle	
302	1100141-OM	1	Hex Nut	
303	8035500	1	Wiper Arm, Adjustable	
304	1100143-OM	1	Wiper Blade	
	1001115153	Ref	LH CAB MIRROR INSTALLATION, (not available to order, see items 401 thru 404 for service)	C
401	0700610	2	HEX HD CAPSCREW, 6X20mm, GR8.8	
402	1001148177	1	MIRROR	
403	8307024	2	LOCKWASHER, 6mm	
404	1001114675	1	MIRROR ARM	

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FIGURE 6-2. CAB ENCLOSURE KIT



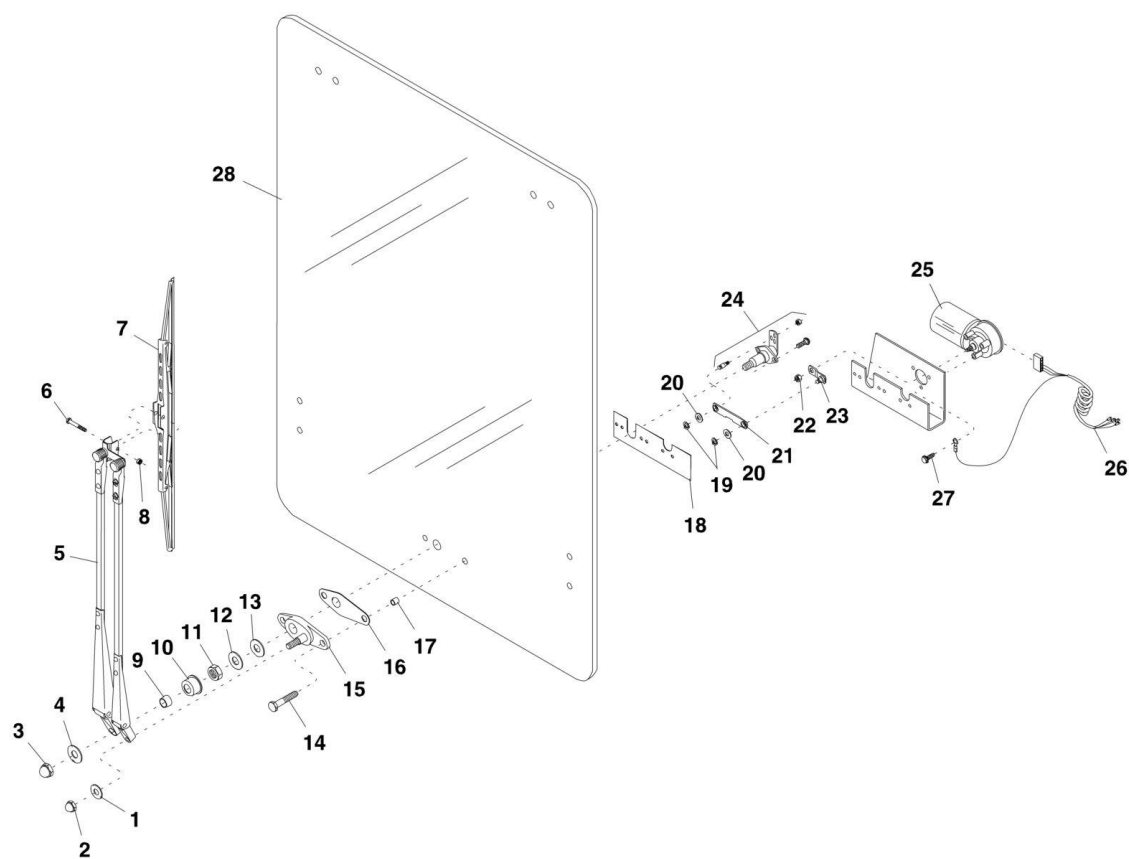
PV1090

FIGURE 6-2. CAB ENCLOSURE KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10436476	1 Ref	CAB ENCLOSURE KIT, (includes all items) WINDSHIELD W/WIPER, MOLDING AND HARDWARE, (See WINDSHIELD WIPER ASSEMBLY for Breakdown)	B
2		Ref	DOOR ASSY, (See DOOR ASSEMBLY for Breakdown)	
3		Ref	CAB WINDOWS, (See WINDOW ASSEMBLY for Breakdown)	
4		Ref	CAB INSULATION, (See INSULATION INSTALLATION for Breakdown)	

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FIGURE 6-3. WINDSHIELD WIPER ASSEMBLY



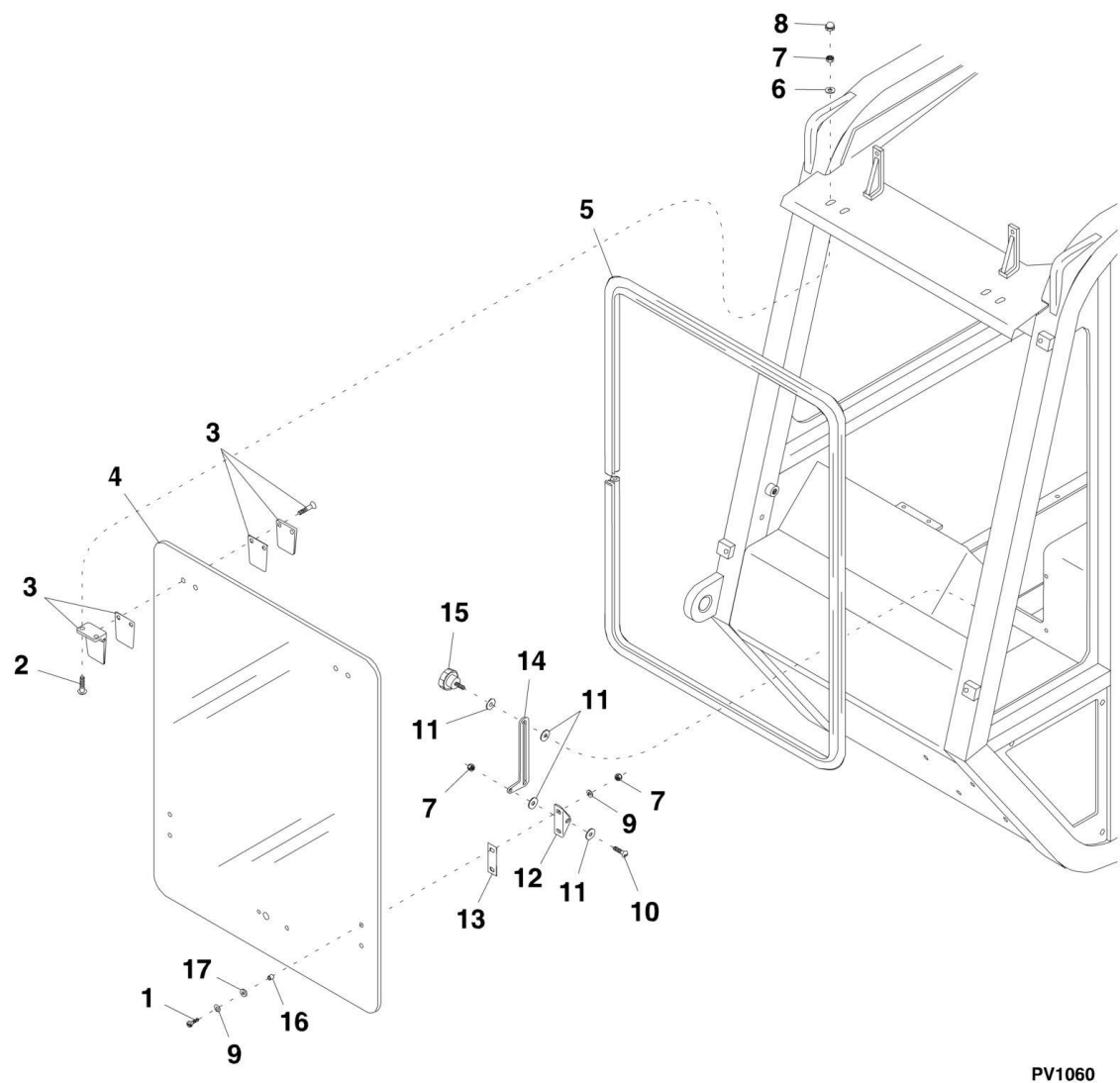
PV1070

FIGURE 6-3. WINDSHIELD WIPER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10337401	1	WINDSHIELD WIPER ASSY, (includes items 1 thru 28 and all items on WINDSHIELD ASSEMBLY)	
1	10701400	1	FLAT WASHER	
2	10791581	1	ACORN NUT, #10-24	
3	10791583	1	ACORN NUT	
4	10791584	1	FLAT WASHER	
5	10837390	1	DUAL WIPER ARM	
6	10791577	1	SLOTTED SCREW, #4-40X7/8	
7	10732558	1	WIPER BLADE	
8	10701650	1	HEX LOCKNUT, #4-40	
9	10791585	1	DRIVER	
10	10791586	1	RUBBER CAP	
11	10791581	1	HEX NUT	
12	10791588	1	STEEL WASHER	
13	10791589	1	PLASTIC WASHER	
14	10837399	2	HEX HD CAPSCREW, 1/4-28X3/4	
15	10732556	1	PANTOGRAPHIC ADAPTER	
16	10791579	1	GASKET	
17	10139222	2	PLASTIC SLEEVE	
18	10139223	1	WIPER MOTOR GASKET	
19	10791601	2	SPRING CLIP	
20	10791600	2	FLAT WASHER	
21	10791599	1	LINK	
22	10701531	1	HEX NUT, 3/8-24	
23	10732555	1	DRIVER ARM	
24	10732554	1	PIVOT SHAFT	
25	10732551	1	WIPER MOTOR, (includes bracket)	
26	10238366	1	WIPER MOTOR CABLE	
27	10791598	3	SCREW	
28		Ref	WINDSHIELD ASSY, (See WINDSHIELD ASSEMBLY for Breakdown)	

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FIGURE 6-4. WINDSHIELD ASSEMBLY



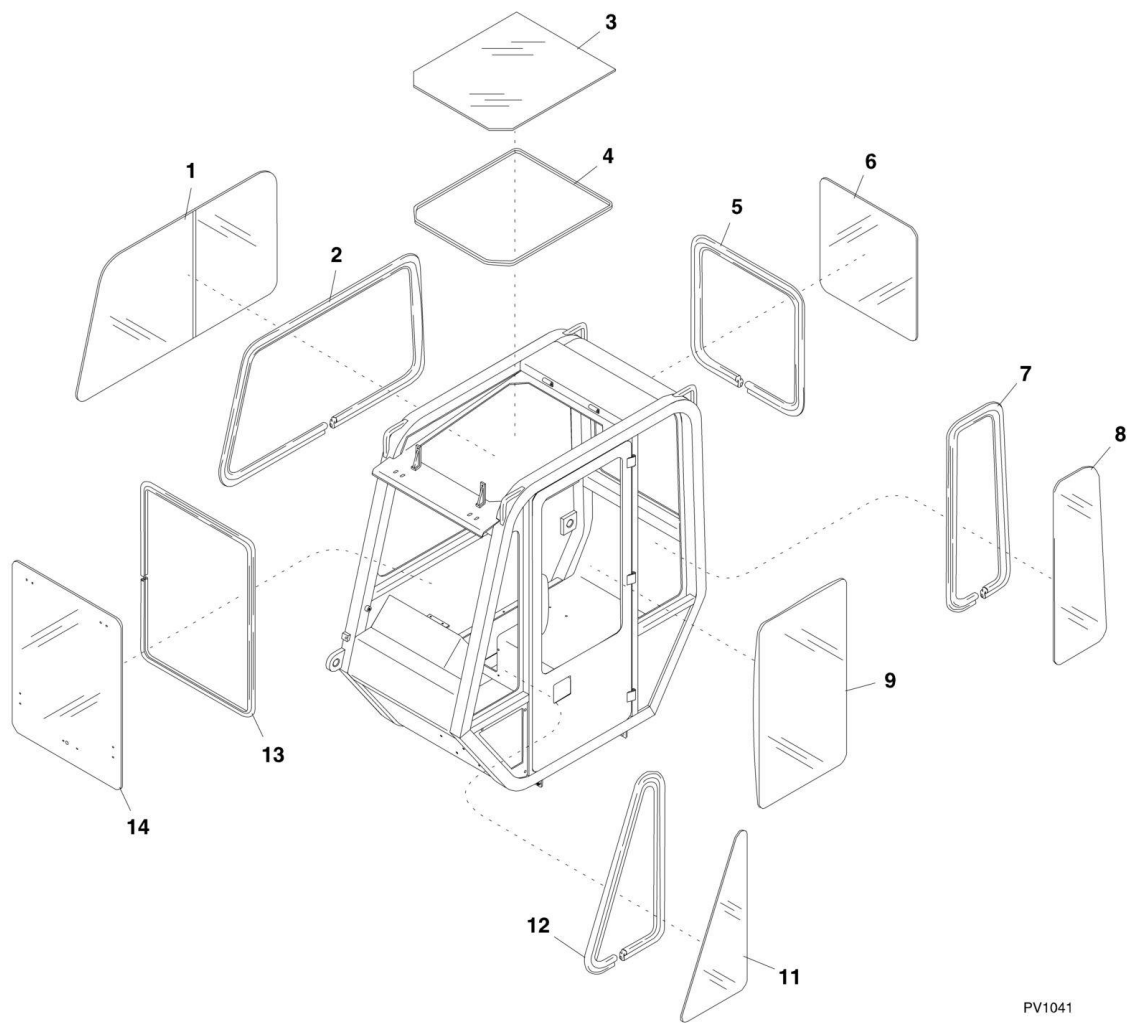
PV1060

FIGURE 6-4. WINDSHIELD ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10837393	4	ROUND HD SLOTTED SCREW, 1/4-20X1	
2	10837397	4	ROUND HD SLOTTED SCREW, 1/4-20X1	
3	10837389	2	FLAT HINGE	
4	10336317	1	HINGED GLASS WINDSHIELD	
5	91344031	1	WINDSHIELD SEAL	
6	10837398	4	FLAT WASHER, 1/4	
7	70021038	10	HEX LOCKNUT, 1/4-20	
8	10136480	4	ACORN CAP	
9	4740553	4	WASHER, SPECIAL,WEATHER TIGHT 0.25	
10	10837391	2	ROUND HD SLOTTED SCREW, 1/4-20X3/4	
11	1001108588	8	WASHER-SPEC,FLAT,3/8	
12	10238848	2	WINDOW STAY BRACKET	
13	10139225	2	RUBBER GASKET	
14	10238849	2	WINDOW STAY	
15	10837396	2	KNOB	
16	10139222	4	WINDOW SLEEVE	

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FIGURE 6-5. WINDOW ASSEMBLY



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FIGURE 6-5. WINDOW ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10867540	1	RIGHT SIDE GLASS, SLIDING	
2	1012354	1	RIGHT SIDE SEAL	
3	10236318	1	SKYLIGHT GLASS	
4	10867150	1	ROOF SEAL, (self stick)	
5	1012362	1	REAR SEAL	
6	10239478	1	REAR GLASS, (fixed)	
7	1012361	1	LEFT SIDE SEAL, (rear)	
8	10236500	1	LEFT SIDE GLASS, (rear)	
9	10339176	1	GLASS DOOR	
11	10236499	1	LEFT SIDE GLASS, (front)	
12	1012360	1	LEFT SIDE SEAL, (front)	
13	91344031	1	WINDSHIELD SEAL	
14		Ref	HINGED GLASS WINDSHIELD, (See WINDSHIELD ASSEMBLY for Breakdown)	

FIGURE 6-6. DOOR ASSEMBLY

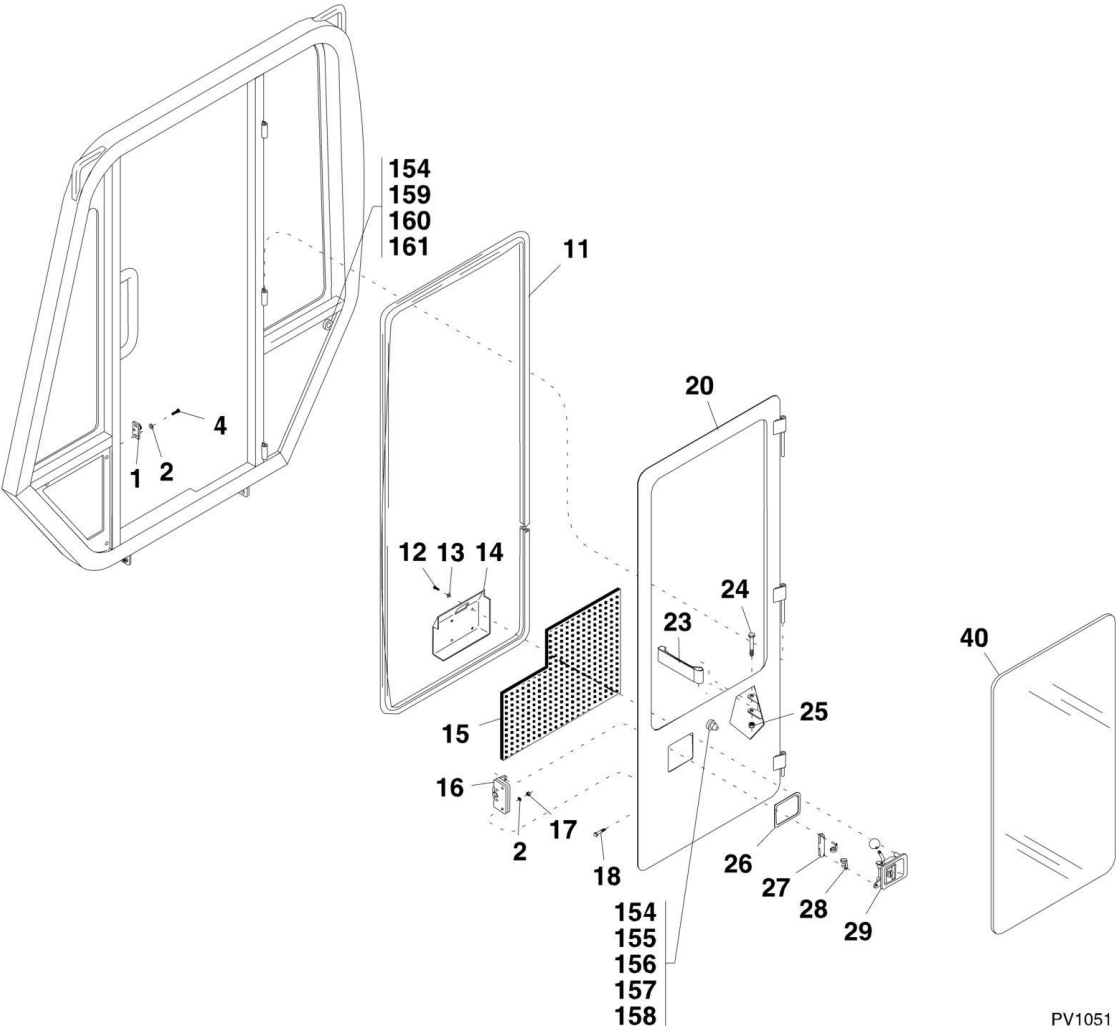
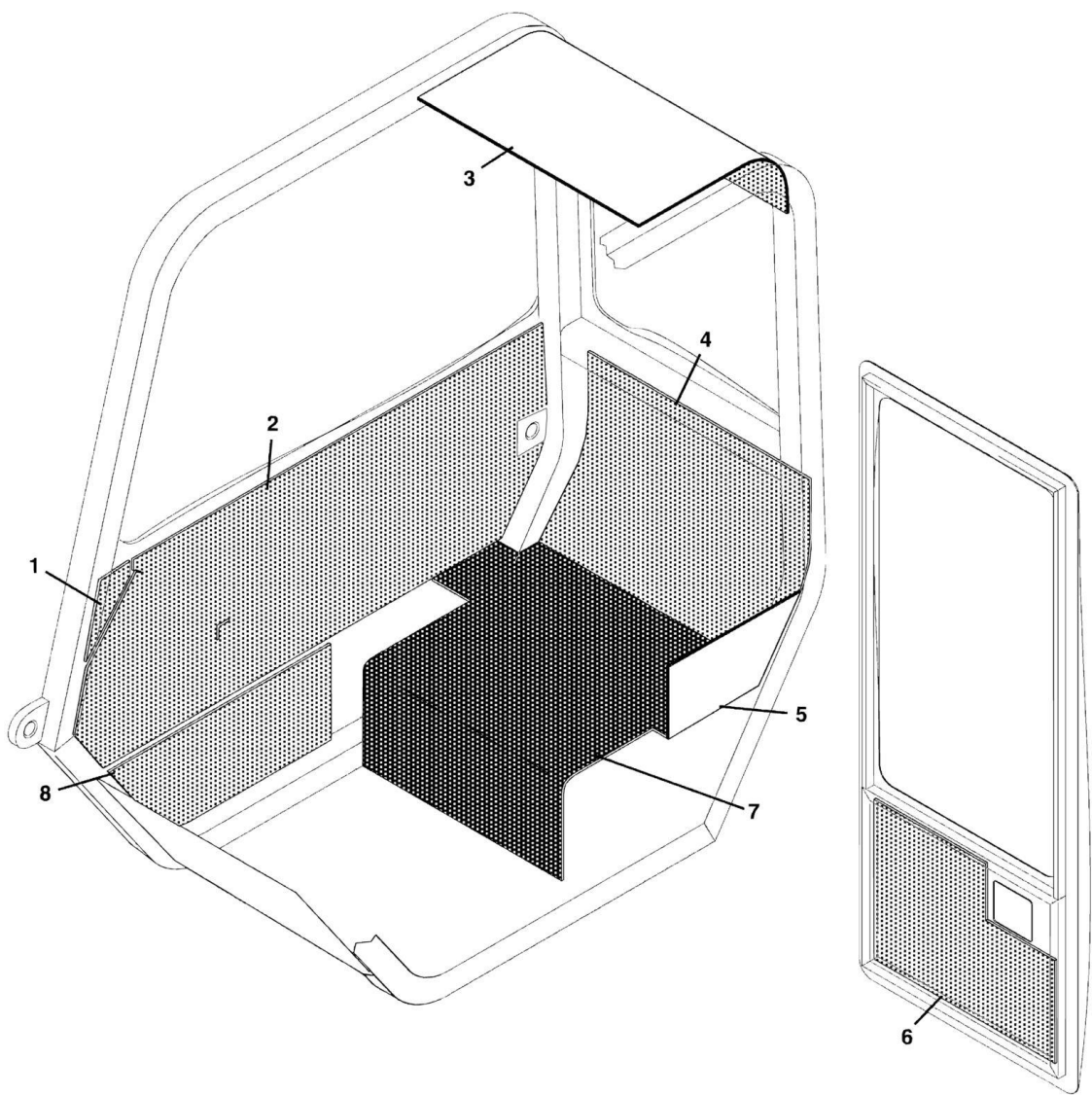


FIGURE 6-6. DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10466041	1	DOOR ASSY, (includes items 2, 11 thru 18, 20, 23, 26 thru 28 & item 40)	AA
1	10837413	1	STRIKER MOUNT	
2	10701402	6	FLAT WASHER, 1/4	
4	10700005	2	HEX HD CAPSCREW, 1/4- 20X1	
11	1012365	1	DOOR SEAL	
12	10702057	4	ROUND HD SLOTTED SCREW, #10-24X3/4	
13	10701400	4	FLAT WASHER, #10	
14	10837414	1	LATCH COVER	
15		Ref	DOOR INSULATION, (See INSULATION INSTALLATION for Breakdown)	
16	10837412	1	ROTARY LATCH	
17	10701656	2	HEX LOCKNUT, 1/4-20	
18	10700007	2	HEX HD CAPSCREW, 1/4- 20X1-1/2	
20	10338913	1	DOOR	
23	10837241	1	STRAP	
24	10700212	2	HEX HD CAPSCREW, 3/8-16X3, GR5	
25	10701658	2	HEX LOCKNUT, 3/8-16	
26	10837411	1	LATCH SEAL	
27	10791534	1	CONNECTING LINK	
28	10791533	2	SPRING PIN	
29	91484028	1	PADDLE HANDLE ASSY	
29	8342813	1	KEY	
40		Ref	GLASS DOOR, (See WINDOW ASSEMBLY for Breakdown)	
154	10167749	1	DOOR HOLDER	
155	10137410	1	DOOR HOLDER GLASS MOUNT	
156	10704057	1	CAPSCREW, 6-1x35mm, GR8.8	
157	10704606	1	LOCKWASHER, 6mm	
158	10704706	1	NUT, 6-1mm	
159	10701308	1	LOCKWASHER, 1/4	
160	10867541	1	SCREW, 1/4-20X1/2	
161	10701506	1	HEX NUT, 1/4-20	

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FIGURE 6-7. INSULATION INSTALLATION



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FIGURE 6-7. INSULATION INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10238766	1	RIGHT FRONT INSULATION	
2	10238767	1	RIGHT SIDE INSULATION	
3	10238764	1	ROOF INSULATION (SN 0160009654 through 0160016827, Including 0160008714)	
4	10238771	1	REAR INSULATION	
5	10236765	1	LOWER LEFT REAR INSULATION	
6	10238870	1	LOWER DOOR INSULATION	
7	10238772	1	SEAT DECK INSULATION	
8	10238768	1	LOWER RIGHT FRONT INSULATION	

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FIGURE 6-8. INSTRUMENT PANEL ASSEMBLY

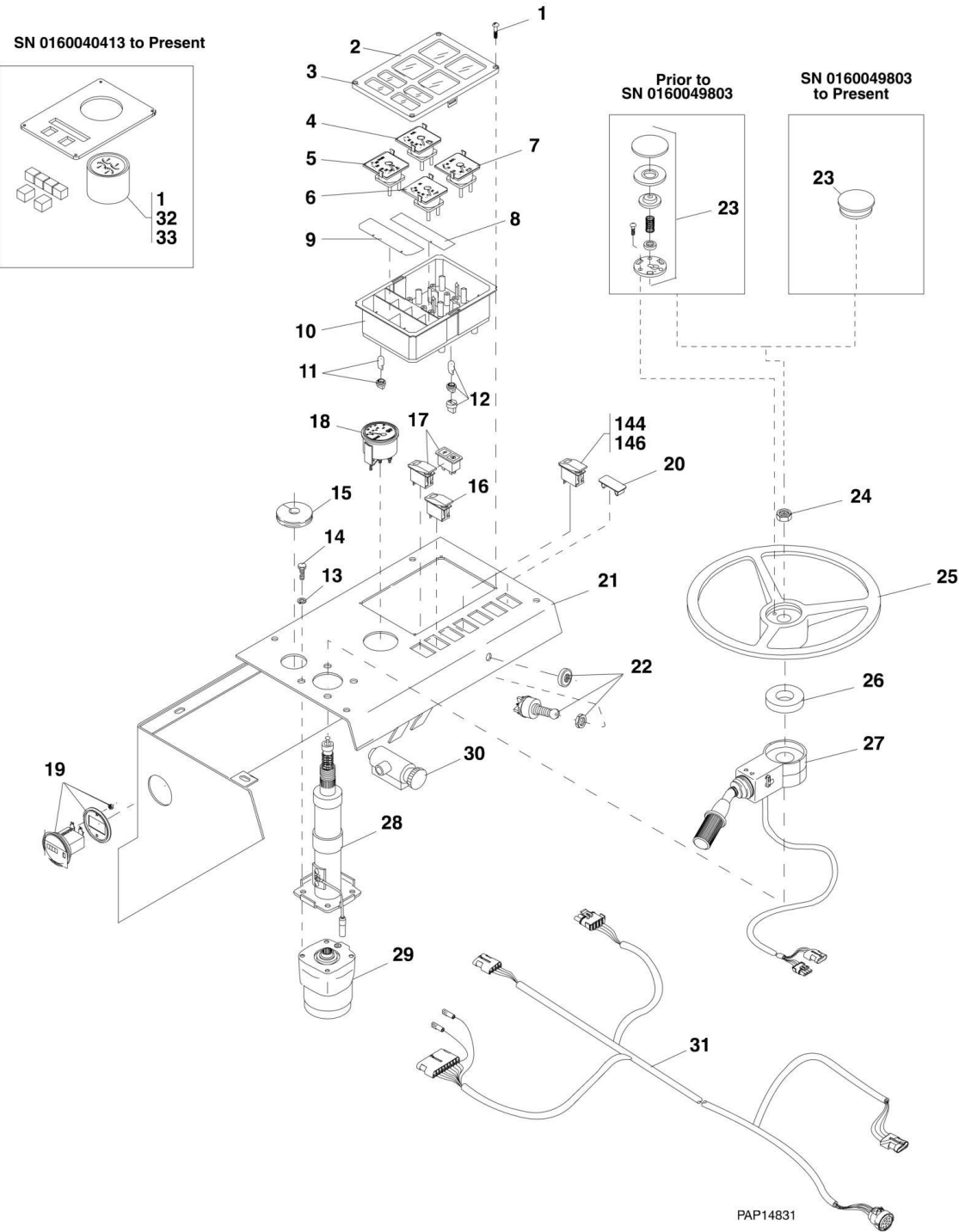
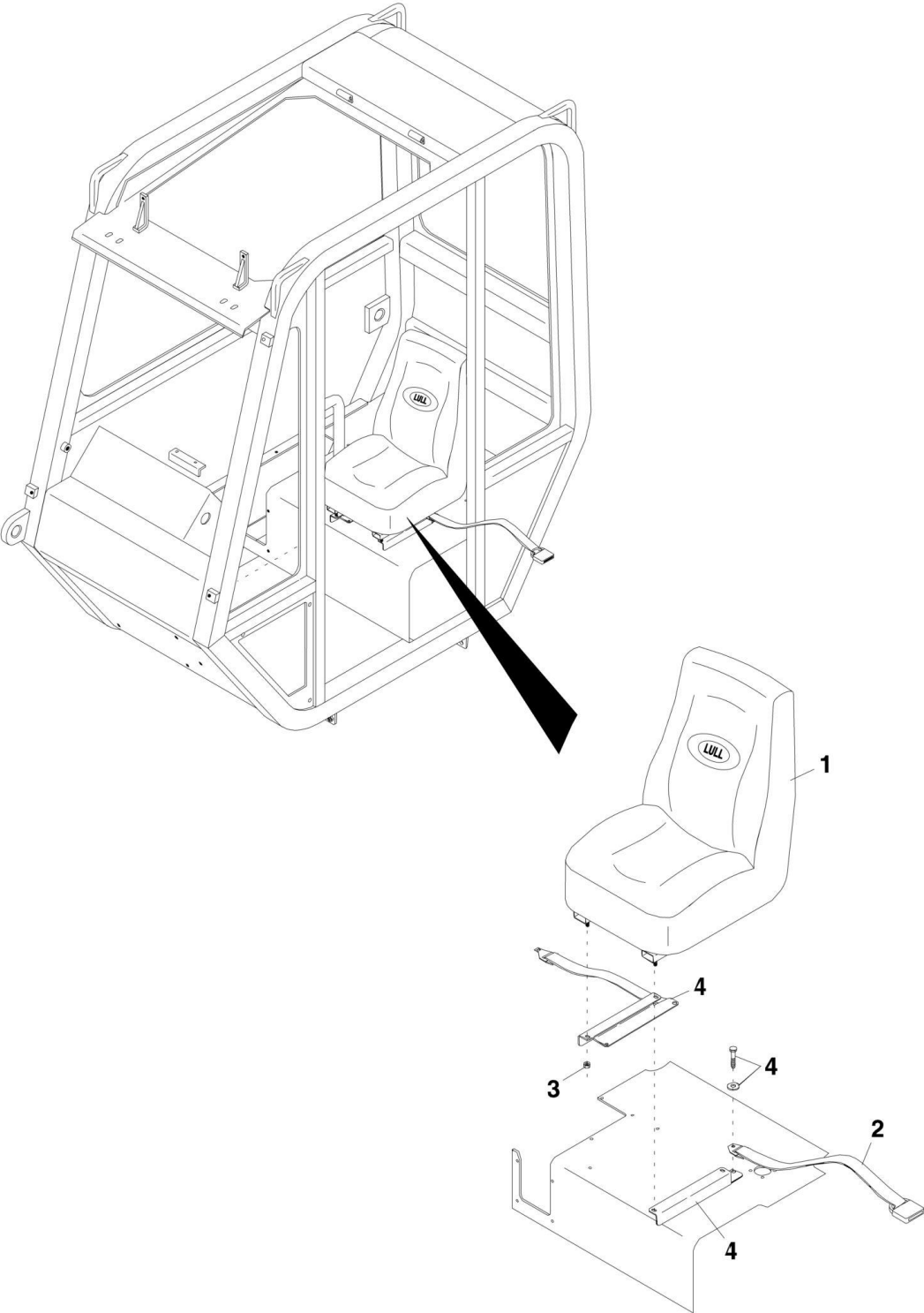


FIGURE 6-8. INSTRUMENT PANEL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	3911012	4	ROUND HD MACHINE SCREW, #10-24X3/4	
1	1810003	1	CLUSTER GAUGE, (includes items 2 thru 12) (SN 0160009654 through 0160040407, Excluding 0160038521)	A
1	1001113368	1	CLUSTER GAUGE, (includes items 2 thru 12), (Including 0160038521)	D
1	1001118559	1	CLUSTER GAUGE, (includes items 32 & 33) (SN 0160040413 to Present)	A
2	10236830	1	Cluster Gauge Panel	
3	N.S.S.	1	BEZEL	
4	10837331	1	FUEL GAUGE	
5	10837332	1	WATER TEMPERATURE GAUGE	
6	10837333	1	OIL PRESSURE GAUGE	
7	10837334	1	VOLTMETER GAUGE	
8	2120185	1	INDICATOR LIGHT LENS (SN 0160009654 through 0160040407, Excluding 0160038521)	
8	1001113367	1	INDICATOR LIGHT LENS, (Including 0160038521)	
9	10238221	1	INDICATOR LIGHT LENS	
10	N.S.S.	1	CLUSTER GAUGE BODY	
11	N.S.S.	6	LIGHT SOCKET	
12	N.S.S.	2	LIGHT SOCKET	
13	10701310	4	LOCKWASHER, 3/8	
14	8303621	4	HEX HD CAPSCREW, 3/8-16X1-1/2	
15	10732575	4	GROMMET	
16	10138094	1	ROCKER SWITCH, (transmission declutch)	
17	4360608	1	ROCKER SWITCH, (engine fault reset) (SN 0160009654 through 0160040407, Excluding 0160038521)	
17	1001114082	1	INDICATOR, (Including 0160038521)	
18	10166982	1	TRANSMISSION OIL TEMP GAUGE	
19	10836804	1	HOURLMETER GAUGE	
20	10836512	5	HOLE PLUG	
21	3380579	1	INSTRUMENT PANEL	
22	1101202	1	IGNITION SWITCH, (includes 2 keys)	
22	1101203	2	KEY	
23	10718141	1	HORN BUTTON (Prior to SN 0160049803)	
23	7138878	1	HORN BUTTON (SN 0160049803 to Present)	
24	10713009	1	STEERING NUT (Prior to SN 0160049803)	
24	8305916	1	STEERING NUT (SN 0160049803 to Present)	
25	10728704	1	STEERING WHEEL (Prior to SN 0160049803)	
25	7138836	1	STEERING WHEEL (SN 0160049803 to Present)	
26	10134667	1	RUBBER MOUNTING PAD	
27	8223049	1	ELECTRIC SHIFT CONTROL	
28		Ref	STEERING COLUMN, (See CONTROLS SECTION for Breakdown)	
29		Ref	STEER MOTOR, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
30		Ref	PARK BRAKE VALVE, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
31	4923242	1	CIRCUIT BOARD AND SHIFTER HARNESS	
32	91404335	6	BULB	
33	70021231	1	4-IN-1 GAUGE	
144	10836511	1	ROCKER SWITCH, (windshield washer), (enclosed cab)	
146	10837308	1	SWITCH, (enclosed cab)	

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FIGURE 6-9. OPERATOR'S SEAT (SN 0160009654 through 0160013146, Including 0160008714)



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FIGURE 6-9. OPERATOR'S SEAT (SN 0160009654 through 0160013146, Including 0160008714)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	N.S.S.	NLA	OPERATORS SEAT, (no longer available, use seat Kit 2915171 for replacement See OPERATOR'S SEAT) (SN 0160013147 to Present)	
1	N.S.S.	NLA	OPERATORS SUSPENSION SEAT, (if equipped), (no longer available, use seat Kit 2915171 for replacement See OPERATOR'S SEAT) (SN 0160013147 to Present)	
2	10239367	1	2IN SEAT BELT	
2	10725464	1	3IN SEAT BELT	
3	10705107	4	HEX LOCKNUT, 5/16-18	
4		Ref	BRACKETS AND MOUNTING HARDWARE, (See OPERATORS COMPARTMENT ASSEMBLY for Breakdown)	

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FIGURE 6-10. OPERATOR'S SEAT (SN 0160013147 to Present)

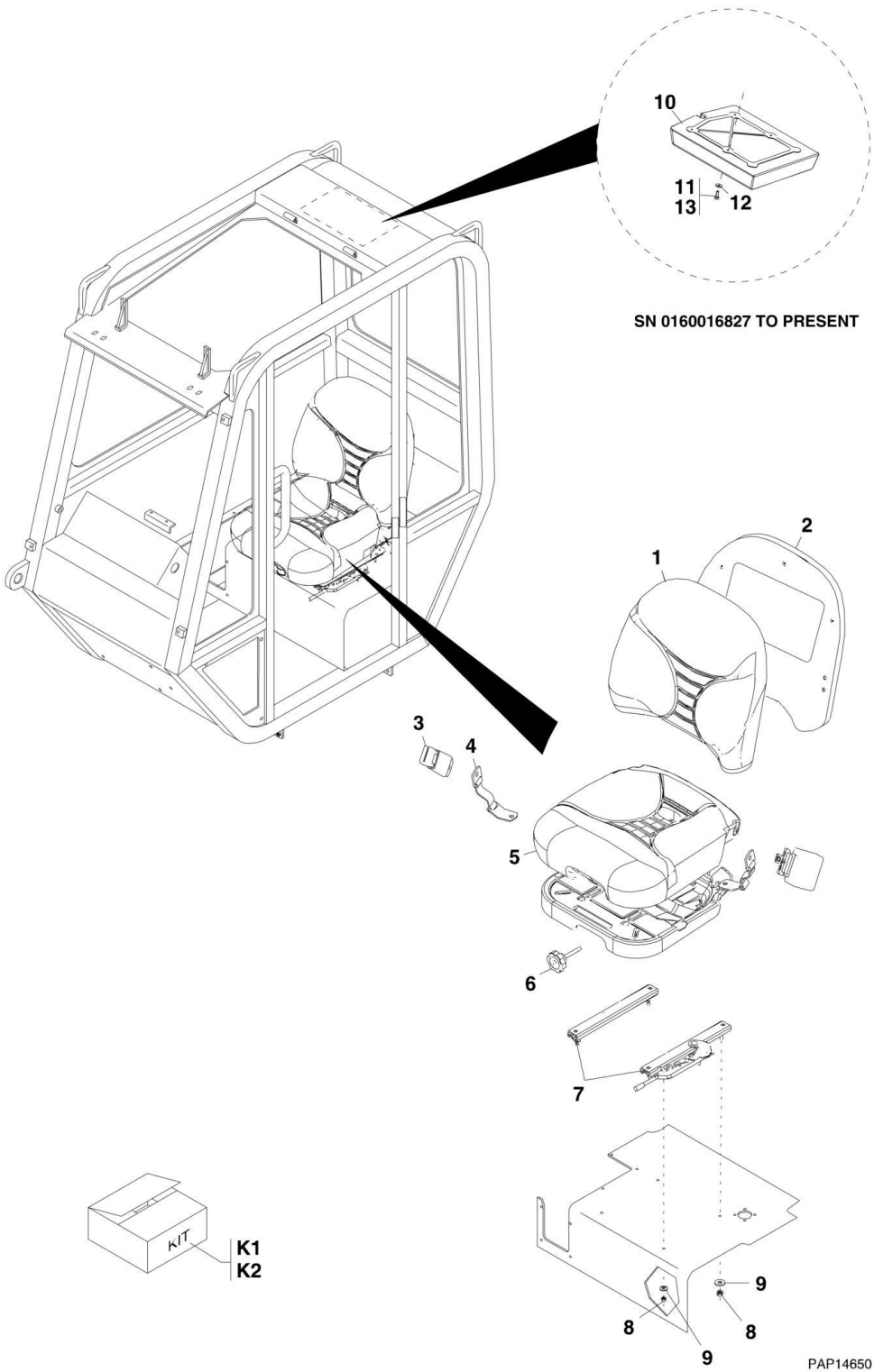
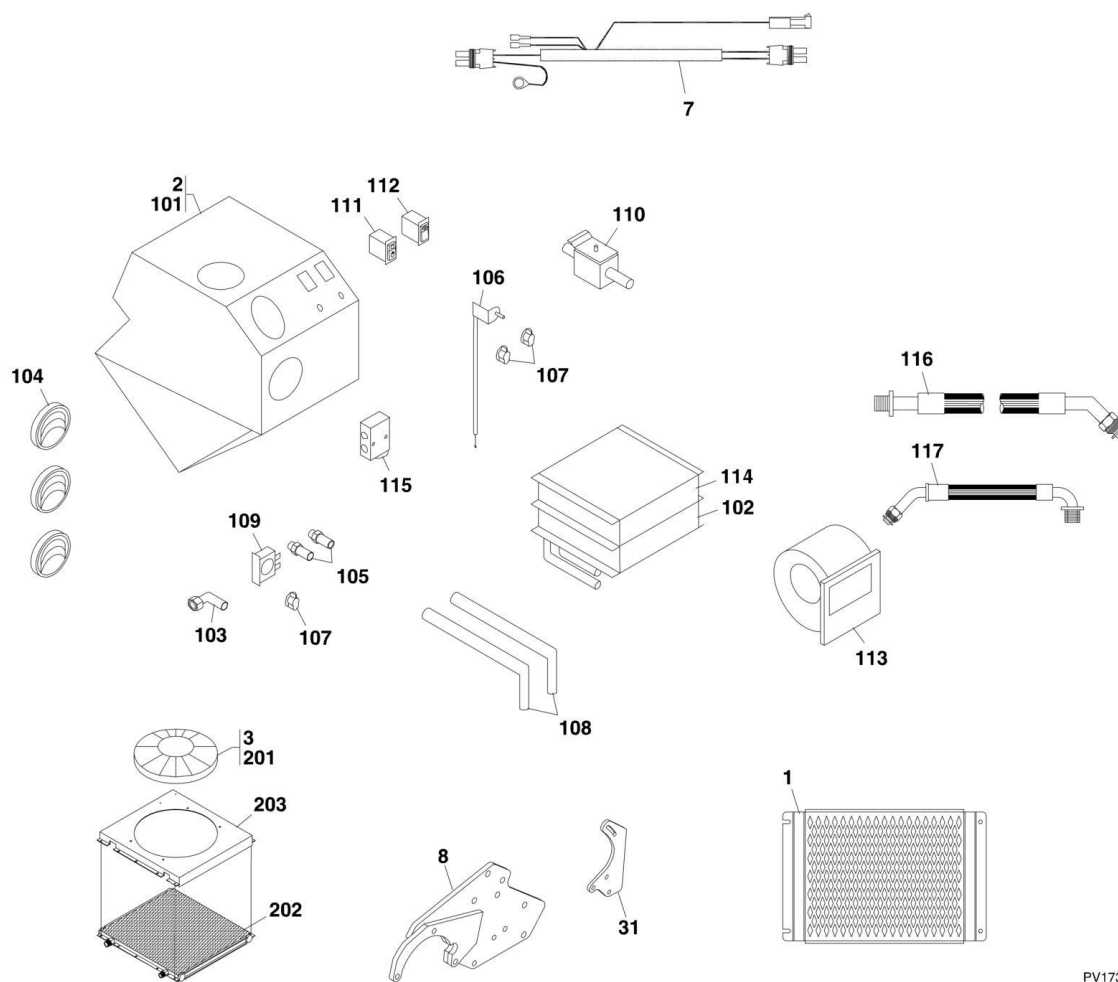


FIGURE 6-10. OPERATOR'S SEAT (SN 0160013147 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3980039	1	SUSPENSION SEAT , (includes items 1 thru 7) (SN 0160009654 through 0160034246, Including 0160008714)	C
	1001101085	1	SUSPENSION SEAT, (includes items 1 thru 7) (SN 0160034247 to Present)	D
1	7026900	1	BACK CUSHION KIT	
2	7026902	1	BACK PANEL KIT	
3	7026905	1	SEAT BELT KIT	
3	91563164	1	SEAT BELT, 3IN, (California Only), (not included with seat)	
4	7026906	1	TETHER KIT	
5	7026901	1	SEAT CUSHION KIT	
6	7026799	1	KNOB KIT	
7	7026798	1	SLIDE KIT	
8	8305626	4	HEX LOCKNUT, 5/16-18	
9	8307106	4	PLAIN WASHER, 5/16	
10	0860520	1	MANUAL STORAGE BOX (SN 0160016827 to Present)	
11	0641406	4	HEX HD CAPSCREW, 1/4-20X3/4 (SN 0160016827 to Present)	
12	4751400	4	PLAIN WASHER, 1/4 (SN 0160016827 to Present)	
13	0100011	AR	LOCTITE 242, (apply to item 11) (SN 0160016827 to Present)	
K1	2915171	1	SUSPENSION SEAT REPLACEMENT KIT, (includes seat p/n 3980039 & items 8 & 9)	
K2	70023139	1	SEAT BELT KIT, 3IN, (California Only), (includes retractor and female ends)	

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FIGURE 6-11. HEATER AND AIR CONDITIONING SYSTEM (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)



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FIGURE 6-11. HEATER AND AIR CONDITIONING SYSTEM (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)

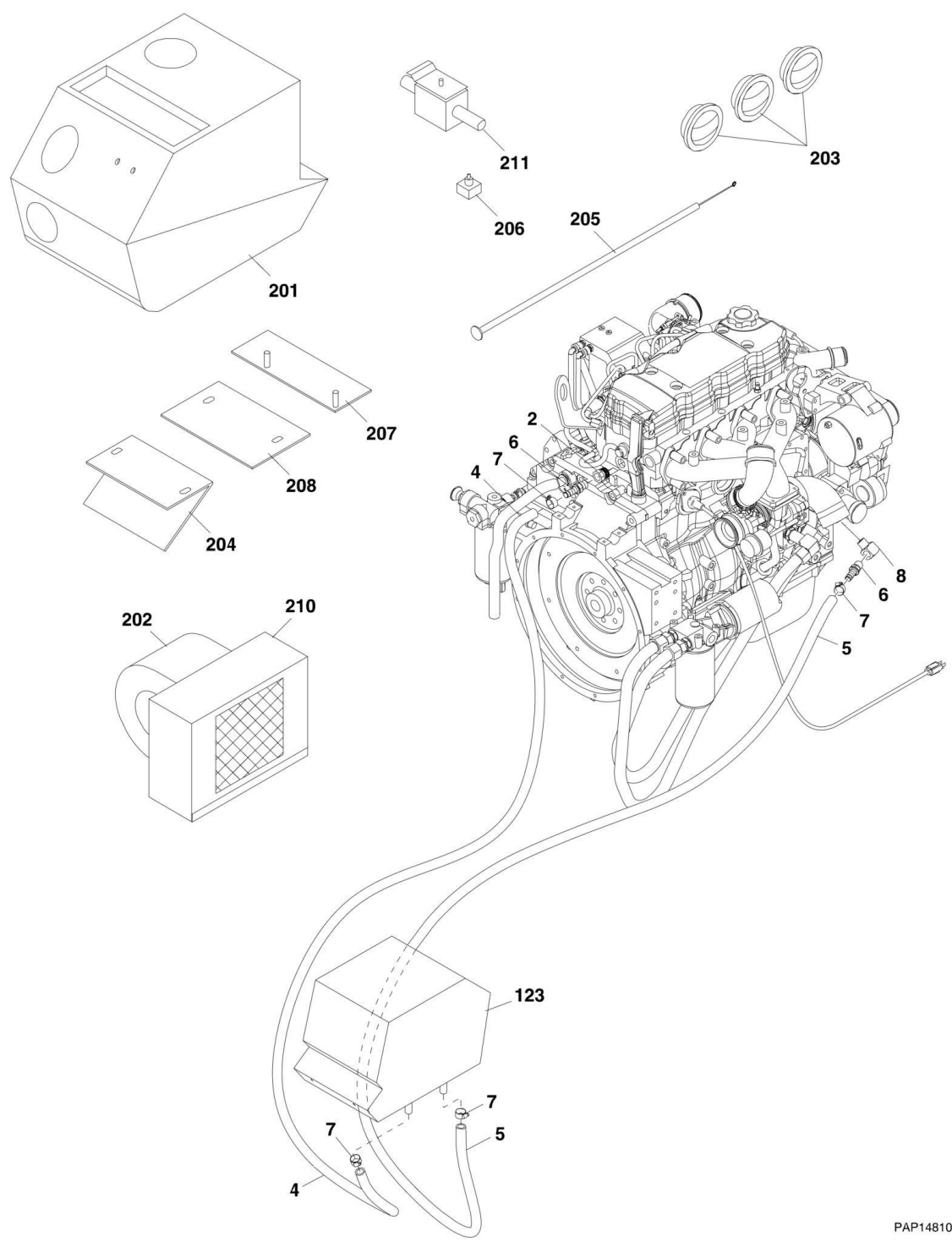
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902501	1	HEATER/AIR CONDITIONING KIT , (includes all items excluding items 8 & 31 thru 36) (SN 0160009654 through 0160033762, Including 0160008714)	C
	1001096356	1	HEATER/AIR CONDITIONING KIT , (includes items 1 thru 36) (SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)	A
1	70020177	1	CONDENSER GUARD	
2	7029793	1	HEATER AND A/C UNIT, (includes items 101 thru 117)	
3	70020178	1	CONDENSER ASSY, (includes items 201 thru 203)	
4	70020179	1	COMPRESSOR , (not shown) (SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)	
5	70020180	1	DRIER, (not shown)	
6	70023165	1	PRESSURE SWITCH, (not shown)	
7	70020181	1	WIRE HARNESS	
8	1001099112	1	COMPRESSOR MOUNT (SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)	
9	N.S.S.	1	DRIER BRACKET, (not shown)	
10	N.S.S.	1	CONDENSER MOUNT, (not shown)	
11	N.S.S.	1	CONDENSER MOUNT, (not shown)	
12	70023161	1	HOSE ASSY, EVAP/DRIER, (not shown)	
13	70023162	1	HOSE ASSY, COND/DRIER, (not shown)	
14	70023163	1	HOSE ASSY, COND/COMP, (not shown)	
15	70023164	1	HOSE ASSY, EVAP/COMP, (not shown)	
16	N.S.S.	22 ft	HEATER HOSE, 5/8, (not shown)	
17	N.S.S.	2 ft	DRAIN TUBE, (not shown)	
18	N.S.S.	4	HOSE CLAMP, (not shown)	
19	N.S.S.	1	BARBED TEE FITTING, (not shown)	
20	N.S.S.	1	ELBOW, 90, (not shown)	
21	N.S.S.	4	CONDENSER FAN GUARD SPACER, (not shown)	
22	N.S.S.	8	TIE WRAP, (not shown)	
23	N.S.S.	35	TIE WRAP, (not shown)	
24	70020182	1	BELT, (not shown)	
25	N.S.S.	3	HEX HD CAPSCREW, 3/8-16X1-1/2, (not shown)	
26	N.S.S.	3	LOCKWASHER, 3/8, (not shown)	
27	N.S.S.	3	HEX NUT, 3/8-16, (not shown)	
28	N.S.S.	4	HEX HD CAPSCREW, 1/4-20X1-3/4, (not shown)	
29	N.S.S.	4	LOCKWASHER, 7/16, (not shown)	
30	N.S.S.	4	HEX NUT, 1/4-20, (not shown)	
31	1001098038	1	ALTERNATOR BRACKET , (not shown) (SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)	
32	N.S.S.	1	HEX HD CAPSCREW, 10X90mm, GR8.8 , (not shown) (SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)	
33	70023167	1	IDLER PULLEY, (not shown) (SN 0160033763 through 0160040407)	
34	91404238	1	SLEEVE, (not shown) (SN 0160033763 through 0160040407)	
35	70023166	1	PULLEY SPACER, (not shown) (SN 0160033763 through 0160040407)	
36	1001097697	1	COMPRESSOR MOUNTING PLATE , (not shown) (SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)	

SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	7029794	1	HOUSING	
102	7029795	1	HEATER COIL	
103	7029796	1	FITTING, 90	
104	7029797	3	DIFFUSER	
105	7029798	2	BULK HEAD	
106	7029799	1	CONTROL CABLE	
107	7029800	2	CONTROL KNOB	
108	7029801	2	HEATER HOSE	
109	7029802	1	THERMOSTAT	
110	7029803	1	WATER VALVE	
111	7029804	1	HEATER/COOL SWITCH	
112	7029805	1	FAN SWITCH	
113	7029806	1	MINI BLOWER	
114	7029807	1	A/C COIL	
115	7029808	1	EXPANSION VALVE	
116	7029809	1	HOSE ASSY	
117	7029810	1	HOSE ASSY	
201	70020183	1	PULLER FAN	
202	70020184	1	CONDENSER COIL	
203	70020185	1	FAN/COIL SHROUD	

SECTION 6 - CAB

FIGURE 6-12. HEATER AND AIR CONDITIONING SYSTEM (SN 0160040413 to Present, Including 0160037824 and 0160038521)



PAP14810

SECTION 6 - CAB

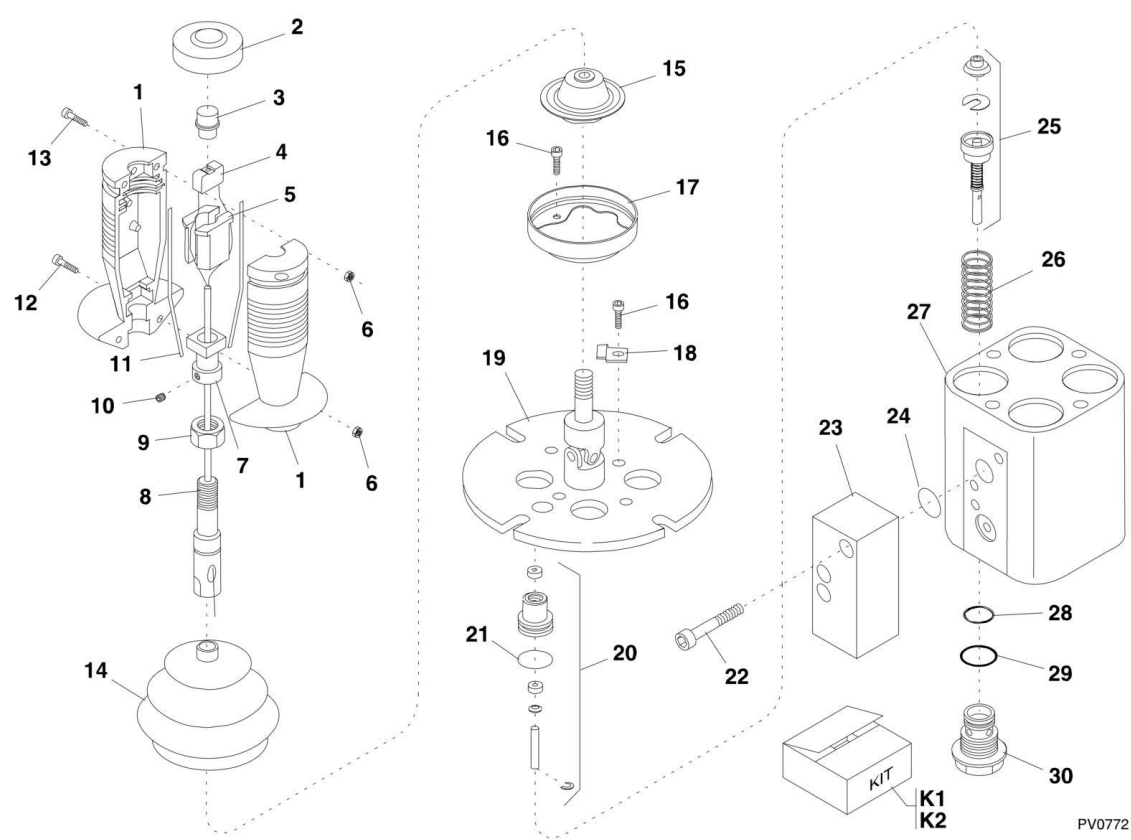
FIGURE 6-12. HEATER AND AIR CONDITIONING SYSTEM (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104456	Ref	CAB HEATER INSTALLATION, (not available to order, see items 1 thru 8 for service)	C
2	2220282	1	REDUCER	AA
4	1001103995	1	SUPPLY HOSE	
5	1001103996	1	RETURN HOSE	
6	1001104685	2	BARBED FITTING	
7	8405007	4	GEAR CLAMP	
8	1001117214	1	ADAPTER	
123	10268997	1	HEATER ASSY, (includes items 201 thru 211)	
201	1100790	1	HOUSING	
202	7029806	1	BLOWER	
203	7029797	3	LOUVERS	
204	1100794	1	ANGLE MOUNT	
205	1100792	1	CONTROL CABLE	
206	70023117	1	SWITCH	
207	1100796	1	STUD MOUNT	
208	1100795	1	HEATER BOX PAD	
209	1100797	1	WIRE HARNESS, (not shown)	
210	1100793	1	HEAT CORE	
211	7029803	1	WATER VALVE	

SECTION 7 - CONTROLS

SECTION 7 - CONTROLS

FIGURE 7-1. JOYSTICK (Prior to SN 0160048698)



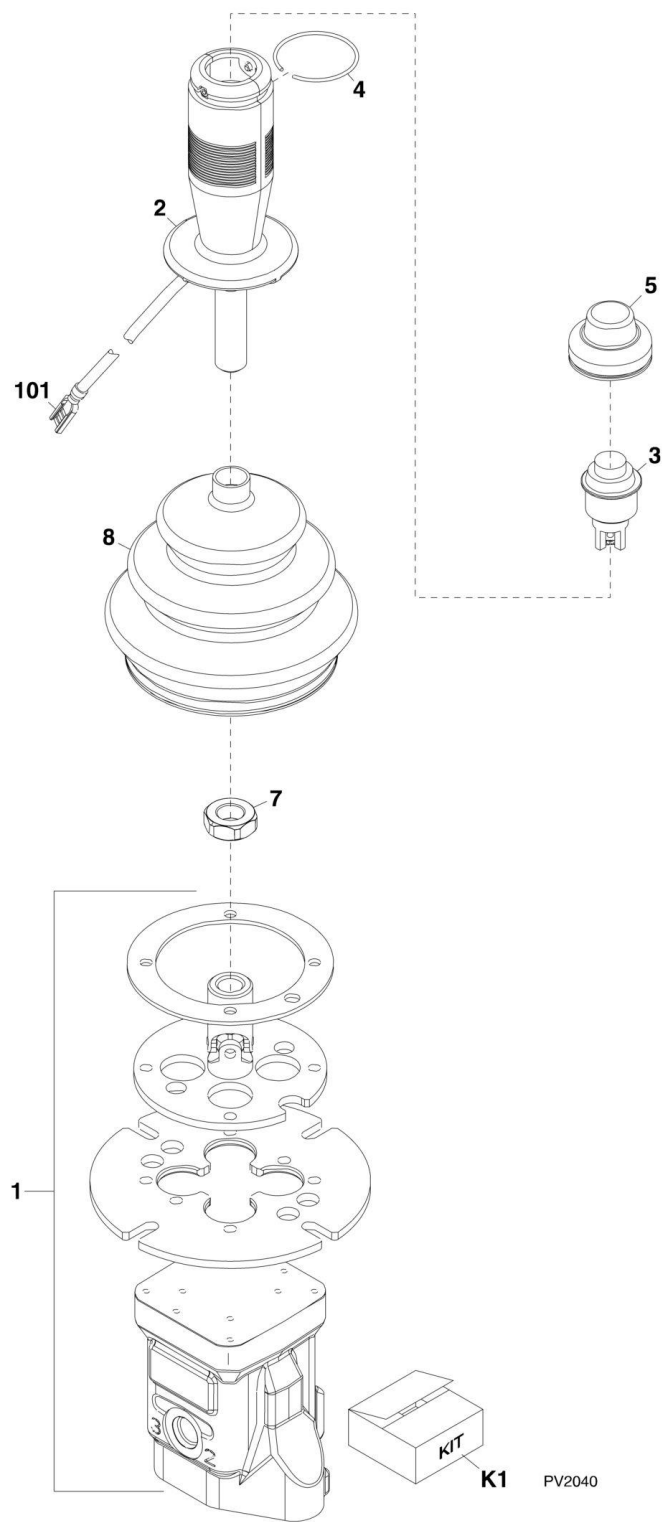
SECTION 7 - CONTROLS

FIGURE 7-1. JOYSTICK (Prior to SN 0160048698)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10239817	NLA	JOYSTICK, (no longer available, use 1001141420 for replacement or items 1 thru 30 for service)	
	10732693	1	HANDLE ASSEMBLY, (includes items 1 thru 13)	
1	10733095	2	HALF HANDLE	
2	10731489	1	CAP	
3	10732206	1	PUSH BUTTON	
4	10731598	1	SWITCH	
5	N.S.S.	2	GUIDE	
6	10731481	4	HEX NUT, M3	
7	N.S.S.	1	LEVER JOINT	
8	N.S.S.	1	STEM	
9	10731483	1	HEX JAM NUT, M10X1.0	
10	10731482	1	SETSCREW, M4X4	
11	N.S.S.	2	SEAL	
12	10731488	2	SOCKET HD CAPSCREW, M3X10	
13	10731486	2	SOCKET HD CAPSCREW, M3X16	
14	10731477	1	BOOT	
15	10733094	1	CAM	
16	10731472	6	SOCKET HD CAPSCREW	
17	10732204	1	RETAINER	
18	10732205	4	CLIP	
19	10731473	1	FLANGE	
20	10731462	4	GUIDE ASSEMBLY	
21	Kit	1	O-RING	
22	10731475	3	SOCKET HD CAPSCREW	
23	10732203	1	MANIFOLD	
24	Kit	1	O-RING	
25	10732201	4	SPRING PACK	
26	10731474	4	SPRING	
27	N.S.S.	1	BODY	
28	Kit	4	O-RING	
29	Kit	4	O-RING	
30	10732202	4	PORTED GUIDE	
K1	10166255	1	JOYSTICK HANDLE HARDWARE KIT, (includes items 6, 9, 10, 12 & 13)	
K2	10732578	1	SEAL KIT, (includes items 21, 24, 28 & 29)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE JOYSTICK ONLY.	

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FIGURE 7-2. JOYSTICK (SN 0160048698 to Present)



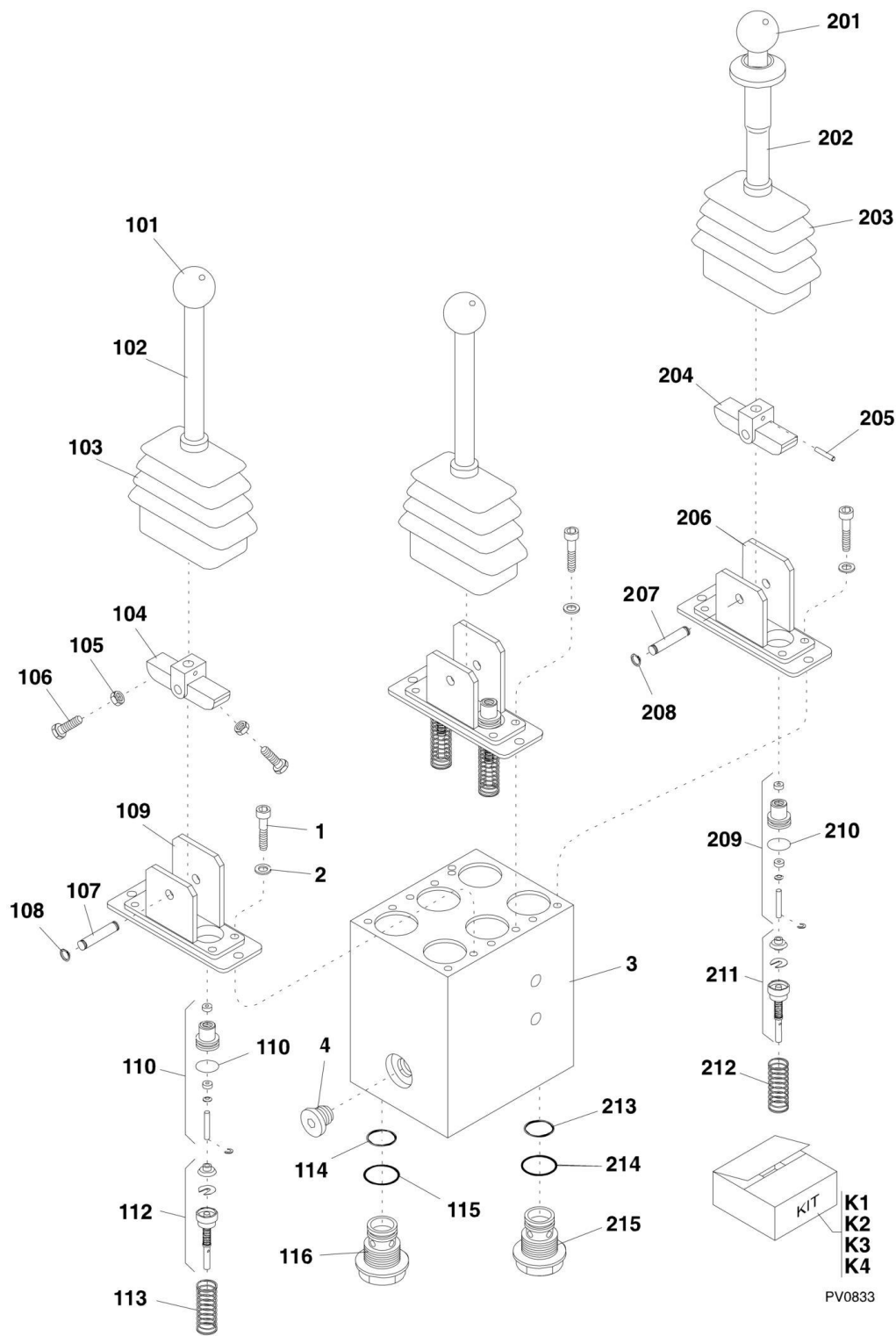
SECTION 7 - CONTROLS

FIGURE 7-2. JOYSTICK (SN 0160048698 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141420	1	JOYSTICK, (includes items 1 thru 8)	A
1	83664129	1	MOUNTING PLATE ASSEMBLY, (includes valve, mounting plates and hardware)	
2	Kit	1	HANDLE ASSEMBLY, (includes hardware)	
3	Kit	1	SWITCH ASSEMBLY	
4	Kit	1	CIRCLIP	
5	Kit	1	CAP	
6	Kit	1	TIE-STRAP, (not shown)	
7	Kit	1	NUT	
8	Kit	1	BELLOW	
101	10721702	2	FEMALE TERMINAL	
K1	70024557	1	HANDLE REPAIR KIT, (includes 2 thru 8)	

SECTION 7 - CONTROLS

FIGURE 7-3. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (Prior to SN 0160048698)



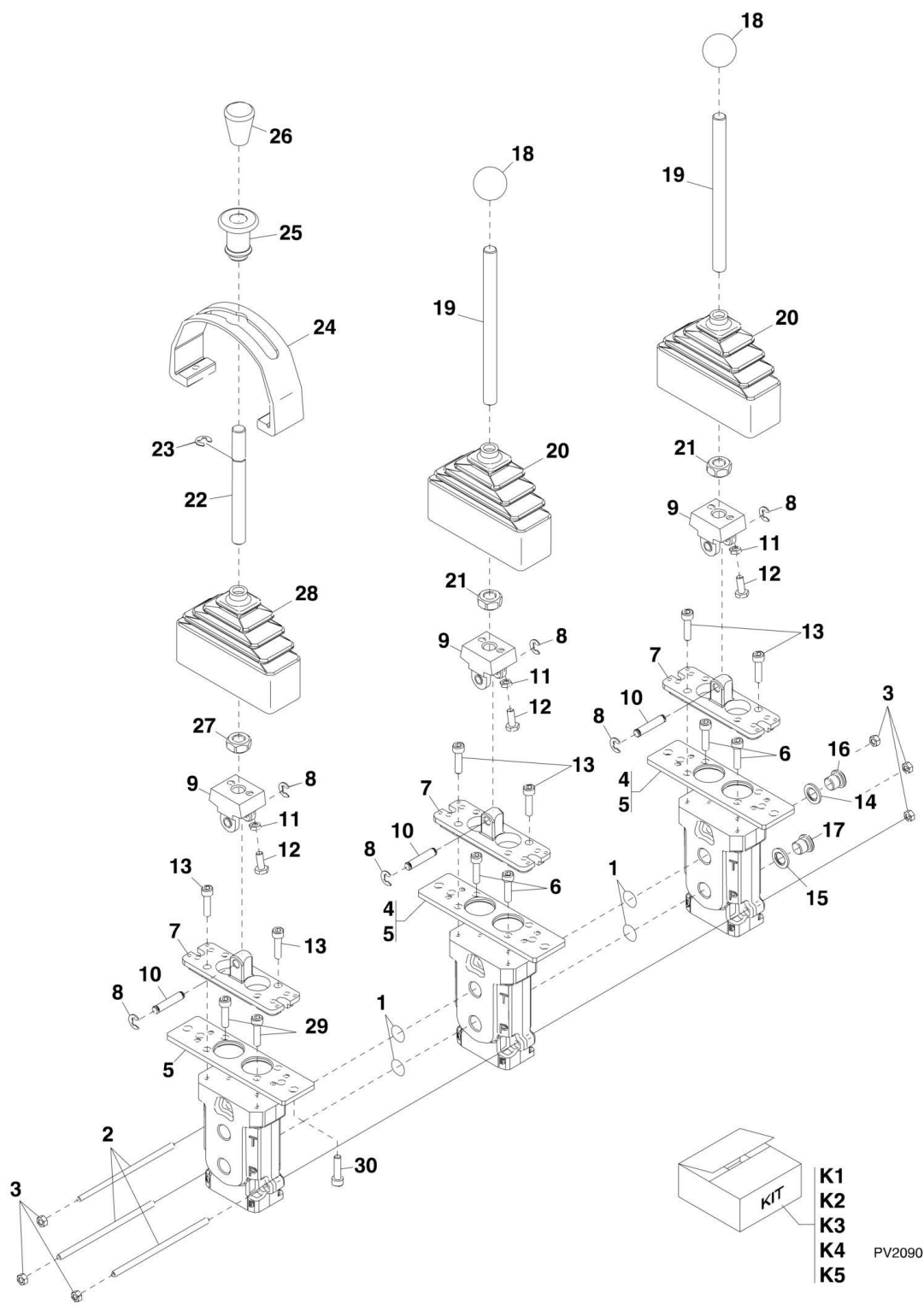
SECTION 7 - CONTROLS

FIGURE 7-3. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (Prior to SN 0160048698)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10266929	NLA	3 HANDLE SINGLE AXIS CONTROL VALVE, (no longer available, use Kit K4 for replacement or items 1 thru 4 for service)	C
1	10732548	12	CAPSCREW	
2	10732549	12	WASHER	
3	N.S.S.	1	BODY	
4	10725691	1	PLUG	
	10731444	NLA	OUTRIGGER CONTROL VALVE ASSEMBLY, (no longer available, use Kit K4 for replacement or items 101 thru 116 for service)	
101	10732543	1	KNOB	
102	10732211	1	LEVER, (includes nut)	
102	10732212	1	METRIC NUT	
103	10732544	1	RUBBER BOOT	
104	10732208	1	CAM	
105	10732213	2	METRIC JAM NUT	
106	10732214	2	CAPSCREW	
107	10731463	1	PIVOT PIN, (includes item 108)	
108	10731464	2	CIRCLIP	
109	10732210	1	FLANGE	
110	10731462	1	GUIDE ASSEMBLY	
111	Kit	1	O-RING	
112	10732201	1	SPRING PACK	
113	10732215	1	SPRING	
114	Kit	1	O-RING	
115	Kit	1	O-RING	
116	10732202	1	PORTED GUIDE	
	10731407	NLA	FRAME TILT CONTROL VALVE ASSEMBLY, (no longer available, use Kit K4 for replacement or items 201 thru 215 for service)	
201	10732543	1	KNOB	
202	10732545	1	LEVER ASSEMBLY	
203	10732544	1	RUBBER BOOT	
204	10732546	1	CAM, (includes item 205)	
205	10732547	1	PIN	
206	10731463	1	PIVOT PIN, (includes item 207)	
207	10731464	2	CIRCLIP	
208	N.S.S.	1	FLANGE	
209	10731462	2	GUIDE ASSEMBLY	
210	Kit	1	O-RING	
211	10732201	2	SPRING PACK	
212	10732215	1	SPRING	
213	Kit	2	O-RING	
214	Kit	2	O-RING	
215	10732202	2	PORTED GUIDE	
K1	10732207	1	OUTRIGGER LEVER KIT, (includes items 102 thru 106)	
K2	10733168	1	OUTRIGGER SEAL KIT, (includes items 111, 114 & 115)	
K3	10733168	1	FRAME TILT SEAL KIT, (includes items 210, 213 & 214)	
K4		Ref	OUTRIGGER AND FRAME LEVEL REPLACEMENT KIT, (See OPTIONS SECTION for Breakdown)	

SECTION 7 - CONTROLS

FIGURE 7-4. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (SN 0160048698 to Present)



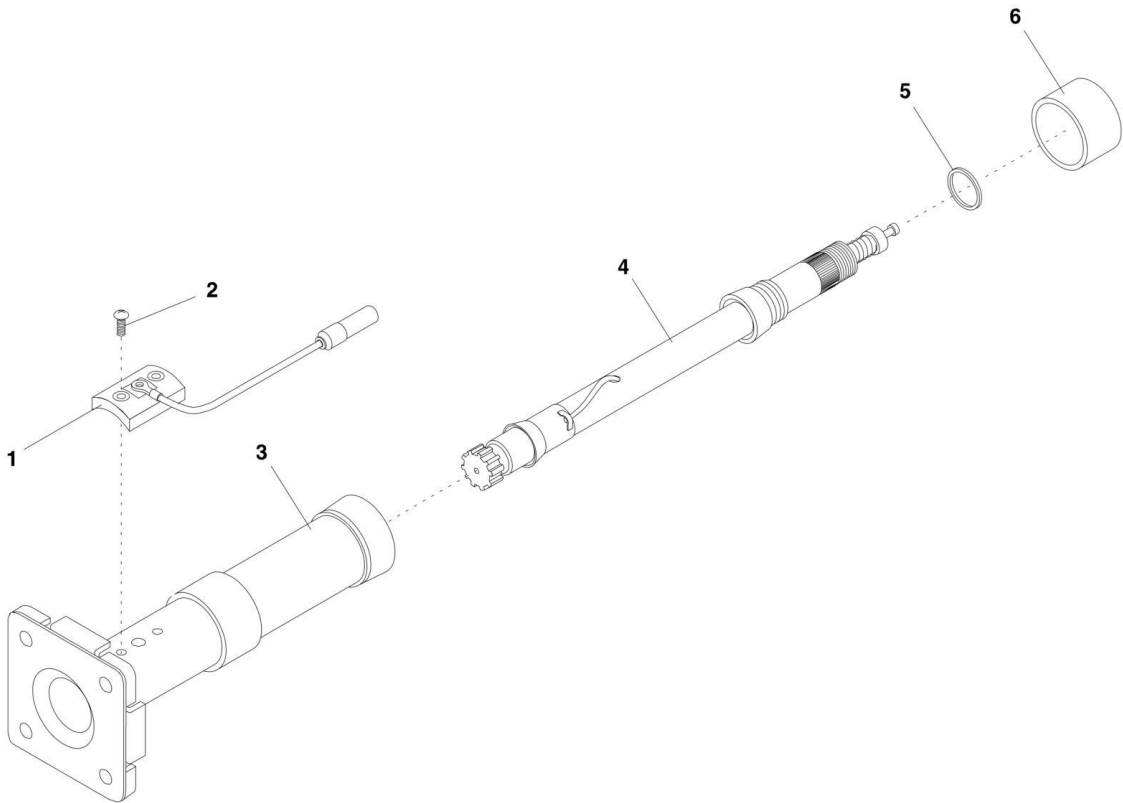
SECTION 7 - CONTROLS

FIGURE 7-4. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (SN 0160048698 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142352	1	FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY, (includes all items)	A
1	70024560	4	O-RING	
2	Kit	3	TIE-ROD	
3	70024559	6	NUT	
4	70024570	2	MOUNTING PLATE ASSEMBLY, (includes items 5 & 6)	A
5	N.S.S.	1	MOUNTING PLATE	
6	70024561	2	SCREW	
7	70024562	3	LEVER ASSEMBLY, (includes items 8 thru 13)	A
8	70024563	2	CIRCLIP	
9	N.S.S.	1	AXLE PIVOT	
10	N.S.S.	1	PIN	
11	N.S.S.	2	NUT	
12	N.S.S.	2	SCREW	
13	70024564	2	SCREW	
14	Kit	1	O-RING	
15	Kit	1	O-RING	
16	Kit	1	PLUG	
17	Kit	1	PLUG	
18	70024565	2	BALL HANDLE	
19	Kit	2	LEVER HANDLE	
20	70024568	2	BELLOW	
21	70024569	2	NUT	
22	Kit	1	LEVER HANDLE	
23	Kit	1	CLIP	
24	Kit	1	BRACKET	
25	Kit	1	LEVER RELEASE	
26	Kit	1	CAP	
27	Kit	1	HEX NUT	
28	70024626	1	BELLOW	
29	Kit	2	SCREW	
30	Kit	2	SCREW	
K1	70024571	1	PLUG KIT, (includes items 14 thru 17)	
K2	70024558	1	TIE-ROD KIT, (includes items 2 & 3)	
K3	70024566	1	LEVER HANDLE KIT, (includes items 18 thru 21)	
K4	70024624	1	LEVER HANDLE REPLACEMENT KIT, (includes items 22, 23 & 25 thru 27)	
K5	70024625	1	HANDLE HARDWARE KIT, (includes items 24, 29 & 30)	

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FIGURE 7-5. STEER COLUMN ASSEMBLY (Prior to SN 0160049803)



PV0430

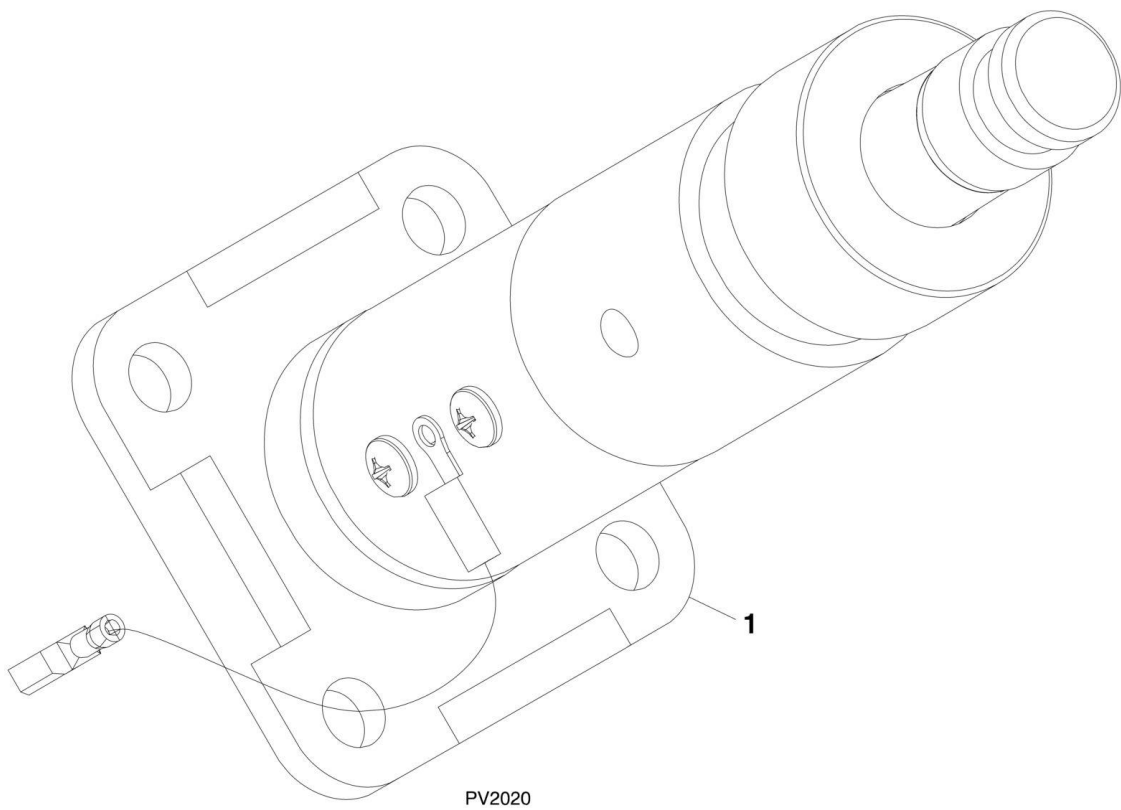
SECTION 7 - CONTROLS

FIGURE 7-5. STEER COLUMN ASSEMBLY (Prior to SN 0160049803)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10239045	1	STEER COLUMN ASSEMBLY, (includes all items)	
1	10718740	1	BRUSH ASSEMBLY, (includes item 3)	
2	N.S.S.	2	SCREW	
3	N.S.S.	1	TUBE ASSEMBLY	
4	N.S.S.	1	SHAFT ASSEMBLY	
5	N.S.S.	1	SHAFT RETAINER	
6	10718738	1	TUBE CAP	

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FIGURE 7-6. STEER COLUMN ASSEMBLY (SN 0160049803 to Present)



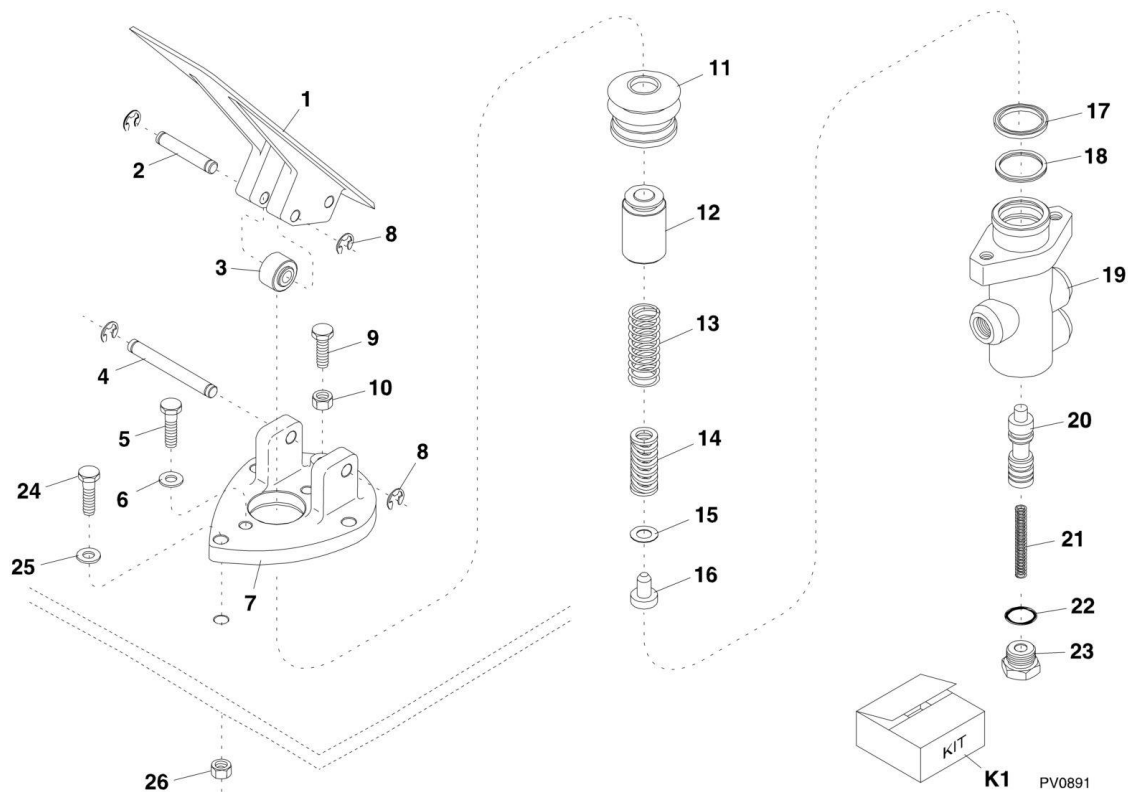
SECTION 7 - CONTROLS

FIGURE 7-6. STEER COLUMN ASSEMBLY (SN 0160049803 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138833	1	STEER COLUMN ASSEMBLY	

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FIGURE 7-7. BRAKE VALVE ASSEMBLY



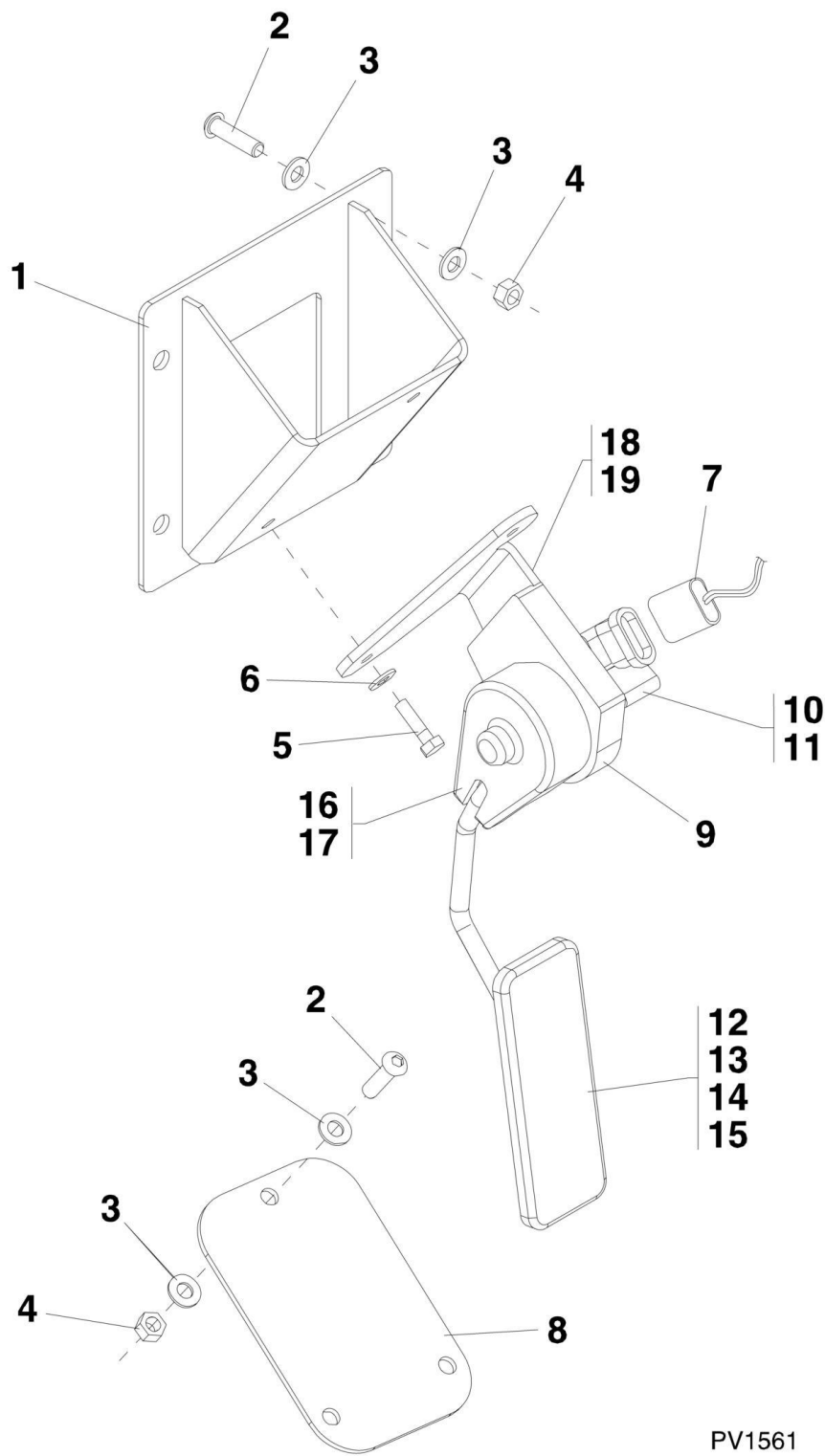
SECTION 7 - CONTROLS

FIGURE 7-7. BRAKE VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10266988	1	BRAKE VALVE ASSEMBLY, (includes items 1 thru 23) (Prior to SN 0160051283, Excluding 0160050734, 0160050735 and 0160050882)	A
	1001109736	1	VALVE,PEDAL MODULATOR (SN 0160051283 to Present, Including 0160050734, 0160050735 and 0160050882)	B
	7029130	1	VALVE ASSEMBLY, (includes items 11 thru 23) (Prior to SN 0160051283, Excluding 0160050734, 0160050735 and 0160050882)	
	70028932	1	VALVE ASSEMBLY, (includes items 11 thru 23) (SN 0160051283 to Present, Including 0160050734, 0160050735 and 0160050882)	
1	N.S.S.	1	BRAKE PEDAL	
2	N.S.S.	1	CAM PIN	
3	N.S.S.	1	CAM	
4	N.S.S.	1	PEDAL MOUNTING PIN	
5	Kit	2	HEX HD CAPSCREW	
6	N.S.S.	2	FLAT WASHER	
7	N.S.S.	1	ACTUATOR BASE	
8	N.S.S.	4	C-CLIP	
9	N.S.S.	1	HEX HD CAPSCREW	
10	N.S.S.	1	HEX NUT	
11	Kit	1	RUBBER BOOT	
12	N.S.S.	1	PISTON	
13	N.S.S.	1	SPRING	
14	N.S.S.	1	SPRING	
15	N.S.S.	1	SHIM	
16	N.S.S.	1	SPRING SEAT	
17	Kit	1	CUP	
18	Kit	1	SEAL	
19	N.S.S.	1	BODY	
20	N.S.S.	1	SPOOL	
21	N.S.S.	1	SPOOL RETURN SPRING	
22	Kit	1	O-RING	
23	N.S.S.	1	PLUG	
24	8303534	3	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
25	10701310	3	LOCKWASHER, 3/8	
26	10701508	3	HEX NUT, 3/8-16	
K1	10837080		REPAIR KIT, (includes items 5, 11, 17, 18 & 22)	

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FIGURE 7-8. ACCELERATOR PEDAL



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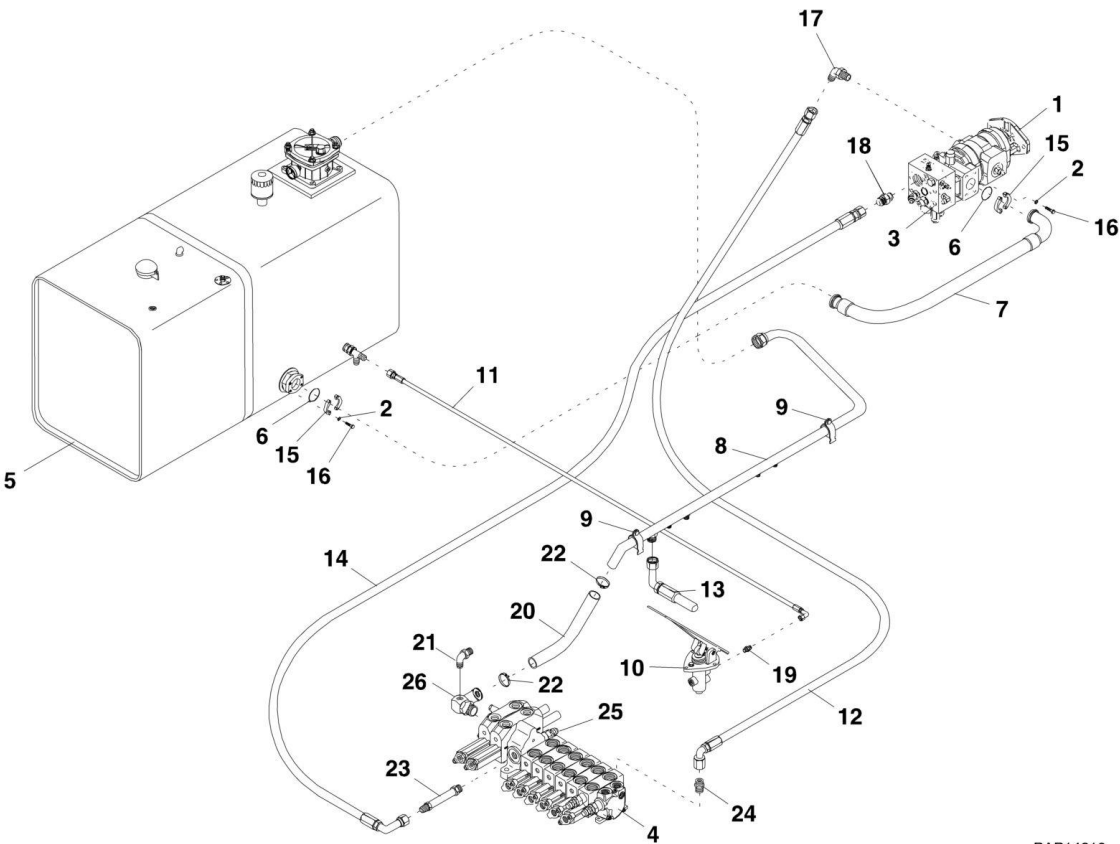
FIGURE 7-8. ACCELERATOR PEDAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0903201	1	ACCELERATOR BRACKET	
2	3900370	7	BUTTON HD SCREW, 5/16-18X1-1/4	
3	4711500	14	PLAIN WASHER, 5/16	
4	3271505	7	HEX LOCKNUT, 5/16-18	
5	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
6	4711400	2	PLAIN WASHER, 1/4	
7		Ref	ENGINE ECU HARNESS, (See ELECTRICAL SECTION for Breakdown)	
8	3380581	1	COVER PLATE	
9	91563044	1	ACCELERATOR PEDAL, (includes items 10 thru 17) (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)	B
9	7026485	1	SENSOR KIT, (includes items 10 & 11) (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)	
9	80383410	1	ACCELERATOR PEDAL, (includes items 10 thru 19) (SN 0160040413 to Present, Including 0160037824 and 0160038521)	1
9	70020551	1	SENSOR KIT, (includes items 10 & 11) (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
10	N.S.S.	2	SCREW	
11	N.S.S.	1	SENSOR	
12	70023325	1	PEDAL KIT, (includes items 13 & 15)	
13	N.S.S.	1	PEDAL SPRING	
14	7026481	1	PEDAL ARM	
15	N.S.S.	1	PEDAL PIN	
16	N.S.S.	1	CLAMP	
17	N.S.S.	2	SCREW	
18	N.S.S.	2	SCREW	
19	N.S.S.	1	BRACKET	

SECTION 8 - HYDRAULIC CIRCUITS

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. PUMP, SUCTION - RETURN



PAP14610

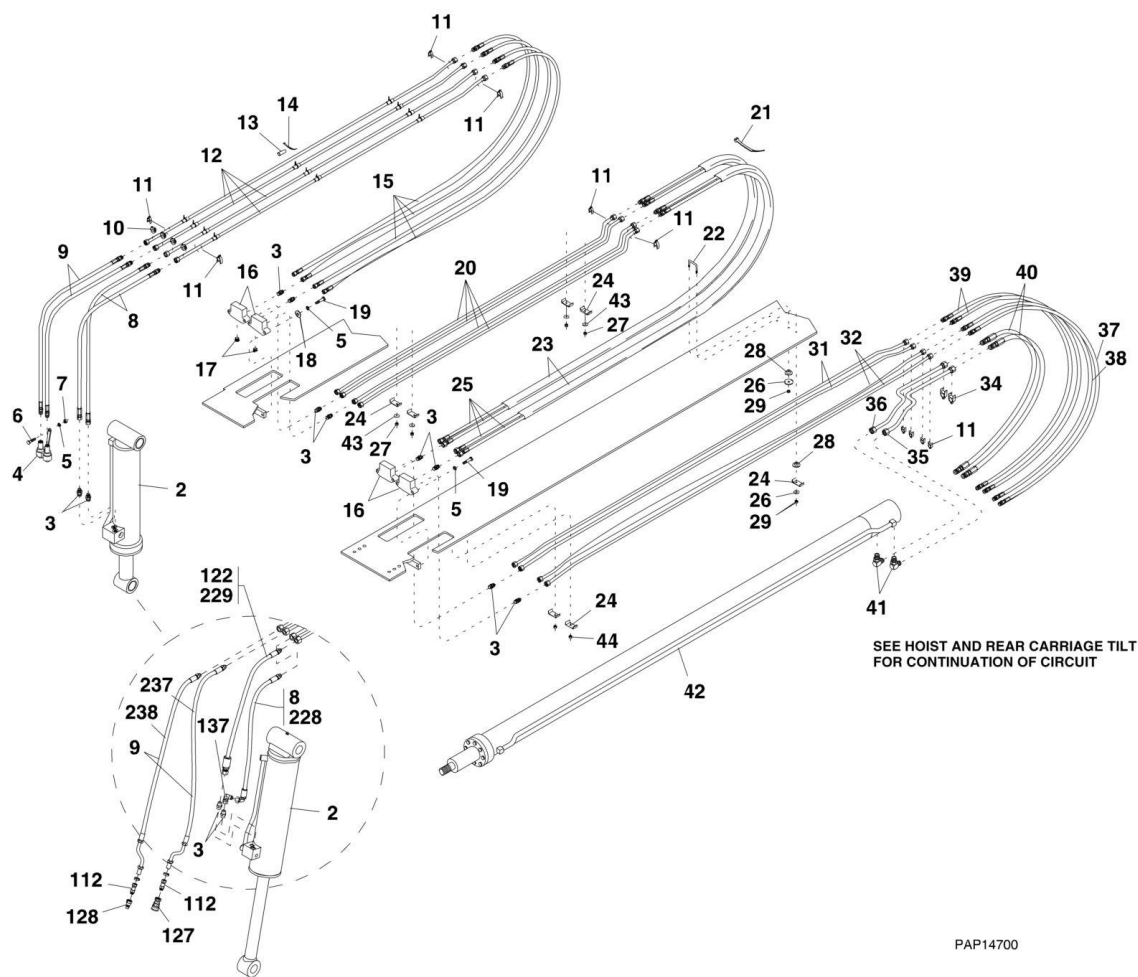
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. PUMP, SUCTION - RETURN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	10701312	8	LOCKWASHER, 1/2	
3		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
4		Ref	HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
5		Ref	FUEL/HYDRAULIC TANK ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
6	10712971	2	O-RING	
7	2754331	1	SUCTION HOSE	
8	10265485	1	RETURN MANIFOLD	
9	10720485	2	CUSHION CLAMP	
10		Ref	BRAKE VALVE ASSY, (See CONTROLS SECTION for Breakdown)	
11	10730177	1	HOSE ASSY	
12	10837605	1	HOSE ASSY	
13		Ref	OIL COOLER HOSE, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
14	10837606	1	HOSE ASSY	
15	8546407	4	FLANGE HALF	
16	10700404	8	HEX HD CAPSCREW, 1/2-13X1-1/2	
17	2220578	1	ELBOW, 90, (includes o-ring)	
18	2220451	1	REDUCER	
19	2220999	1	TEE	
20	1012358	1	RETURN HOSE	
21	2220493	1	ELBOW, 90	
22	8405102	2	HOSE CLAMP	
23	10139537	1	ADAPTER TUBE, (includes o-ring)	
24	2220408	1	STRAIGHT ADAPTER	
25	2220371	1	CONNECTOR, (includes o-ring)	
26	10265275	1	MODIFIED ADAPTER	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. BOOM HYDRAULIC CYLINDER



SEE HOIST AND REAR CARRIAGE TILT
FOR CONTINUATION OF CIRCUIT

SN 0160037900 TO PRESENT
INCLUDING 0160037855

PAP14700

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. BOOM HYDRAULIC CYLINDER

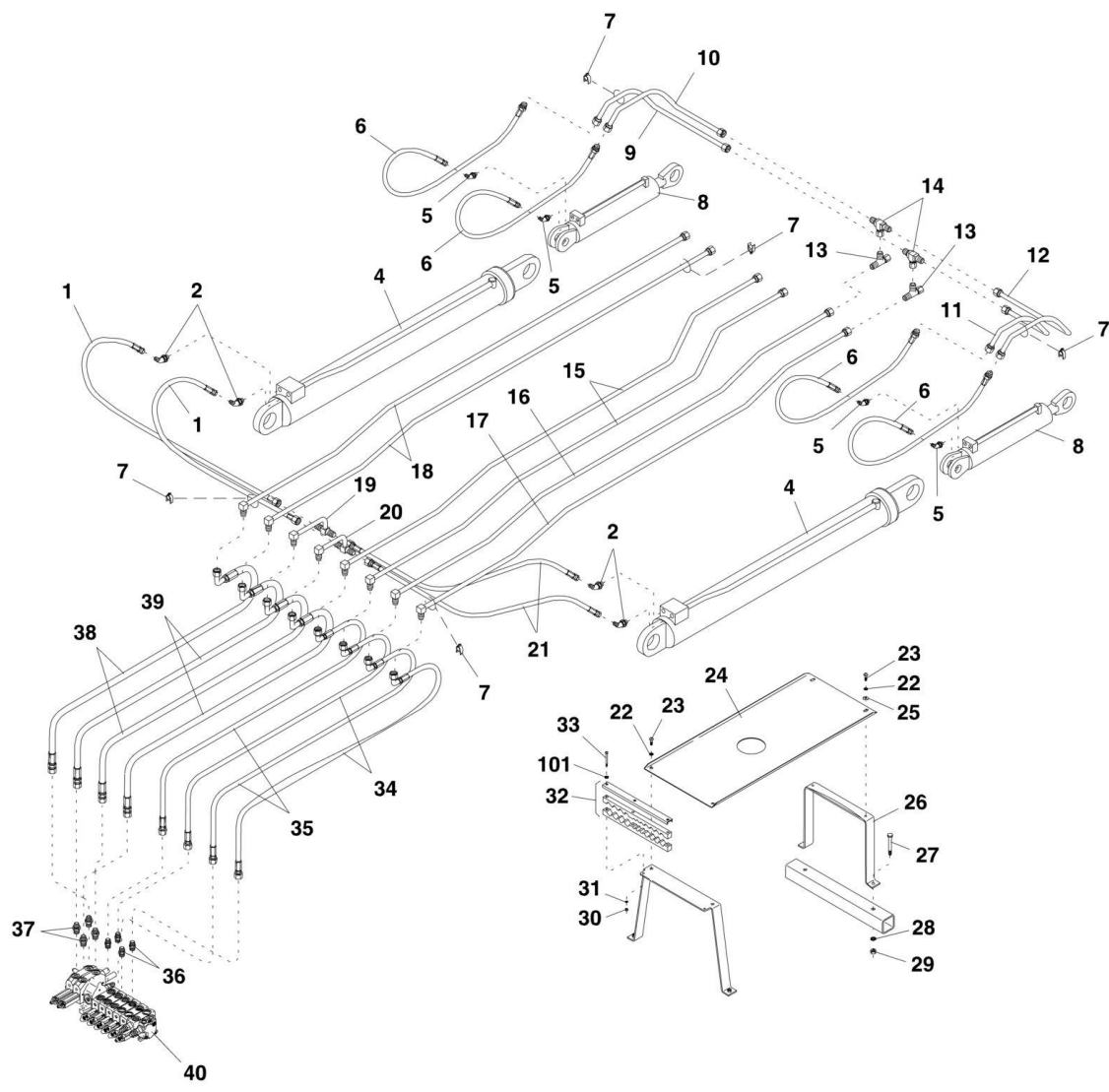
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2		Ref	FRONT CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	2220947	18	CONNECTOR, (includes o-ring)	
4	1102074	1	QUICK COUPLER , (includes dust cap and o-ring) (Prior to SN 0160037900, Excluding 0160037855)	
5	4761800	9	LOCKWASHER, 1/2	
6	10700404	1	HEX HD CAPSCREW, 1/2-13X1-1/2	
7	10701510	1	HEX NUT, 1/2-13	
8	10837289	2	HOSE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)	
8	10837289	1	HOSE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)	
9	10868104	2	HOSE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)	
9	1001099891	2	HOSE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)	
10	1101513	4	SPLIT SHAFT COLLAR	
11	1001131575	12	CUSHION CLAMP	
12	10238747	4	TUBE ASSEMBLY	
13	1100379	12	HEATER HOSE	
14	10717989	12	TIE WRAP	
15	1101505	4	HOSE ASSEMBLY	
16	10165944	4	HYD MANIFOLD	
17	2220887	8	PLUG, (includes o-ring)	
18	4711800	4	FLAT WASHER, 1/2	
19	0641818	8	HEX HD CAPSCREW, 1/2-13X2-1/4	
20	10238757	4	TUBE ASSEMBLY	
21	10720496	AR	TIE WRAP	
22	10167485	2	HOSE HOLD DOWN	
23	1101511	2	NYLON SLEEVE, (2 hose)	
24	10138930	8	TUBE CLAMP	
25	1100990	4	HOSE ASSEMBLY	
26	10701452	4	FENDER WASHER, 1/4X1-1/4	
27	3311602	4	LOCKNUT, 3/8-16	
28	1101518	4	HOSE CLAMP SPACER	
29	8305624	4	HEX NUT, 1/4-20	
31	10265086	2	TUBE ASSEMBLY	
32	10265087	2	TUBE ASSEMBLY	
34	90207463	2	CUSHION CLAMP	
35	10238133	1	TUBE ASSEMBLY	
36	10238132	1	TUBE ASSEMBLY	
37	10837522	1	HOSE ASSEMBLY	
38	10837521	1	HOSE ASSEMBLY	
39	10837186	2	HOSE ASSEMBLY	
40	10837189	2	HOSE ASSEMBLY	
41	2220578	2	ELBOW, 90, (includes o-ring)	
42		Ref	BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
43	4791600	8	STAR WASHER, 3/8	
44	8305645	2	HEX LOCKNUT, 3/8-16	
112	2180849	2	ADAPTER (SN 0160037900 to Present, Including 0160037855)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
122	1001112955	1	HOSE ASSY (SN 0160037900 to Present, Including 0160037855)	
127	91403413	1	QUICK DISCONNECT, (female) (SN 0160037900 to Present, Including 0160037855)	
128	91403414	1	QUICK DISCONNECT, (male) (SN 0160037900 to Present, Including 0160037855)	
137	2220973	1	ELBOW, 90 (SN 0160037900 to Present, Including 0160037855)	
228	1001112953	1	HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855)	
229	10837289	1	HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855)	
237	1001099891	1	HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855)	
238	1001112699	1	HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. HOIST AND REAR CARRIAGE TILT



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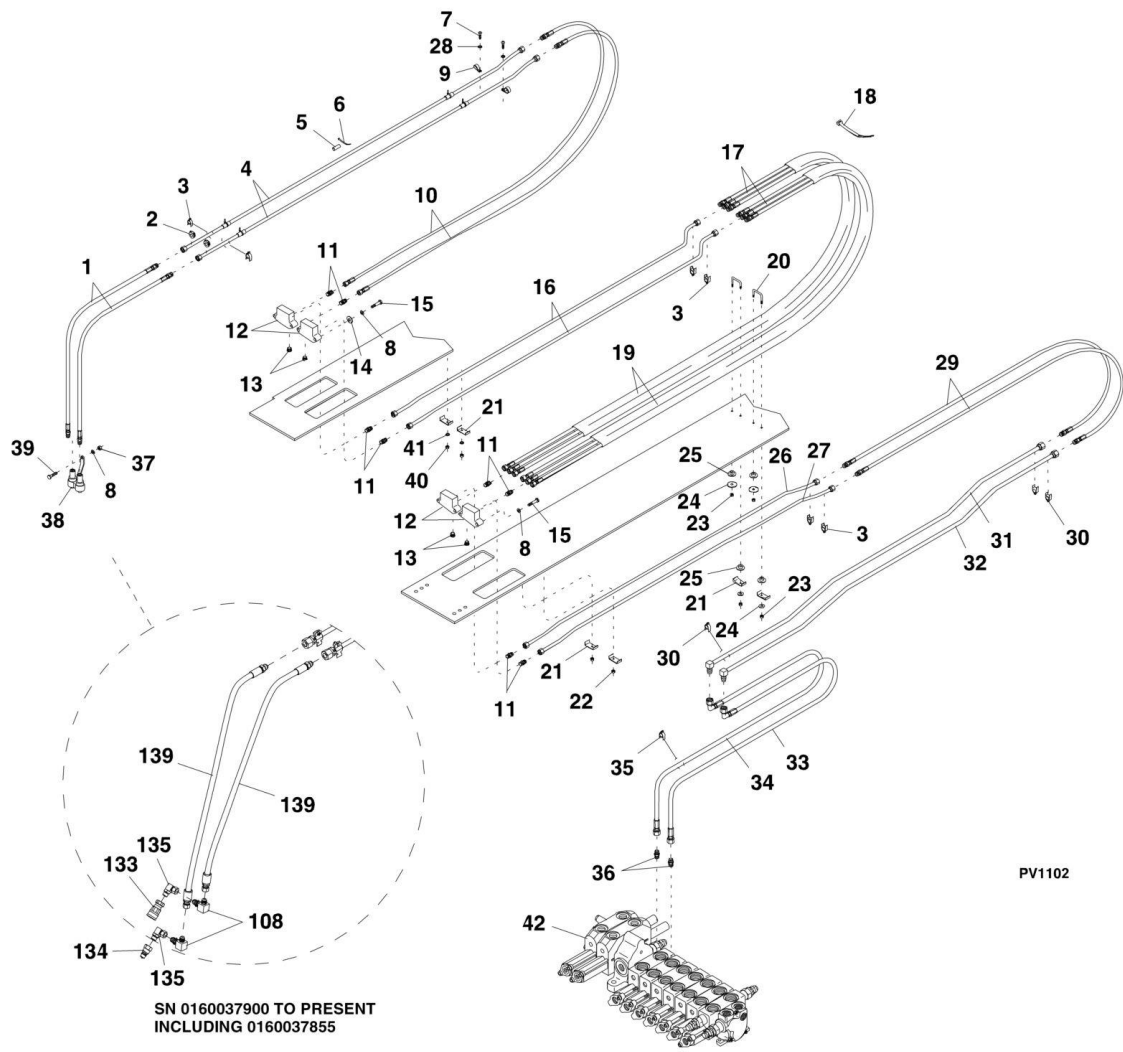
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. HOIST AND REAR CARRIAGE TILT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10723866	2	HOSE ASSEMBLY	
2	2221050	4	ELBOW, 45, (includes o-ring)	
4		Ref	HOIST CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
5	2220500	4	ELBOW, 45, (includes o-ring)	
6	10837151	4	HOSE ASSEMBLY	
7	90207463	16	CUSHION CLAMP	
8		Ref	REAR CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
9	10236295	1	TUBE ASSEMBLY	
10	10236294	1	TUBE ASSEMBLY	
11	10236293	1	TUBE ASSEMBLY	
12	10236292	1	TUBE ASSEMBLY	
13	2220700	2	SWIVEL TEE	
14	2220682	2	SWIVEL BRANCH TEE	
15	10239736	2	TUBE ASSEMBLY	
16	10239734	1	TUBE ASSEMBLY	
17	10239735	1	TUBE ASSEMBLY	
18	10239733	2	TUBE ASSEMBLY	
19	10139731	1	TUBE ASSEMBLY	
20	10139732	1	TUBE ASSEMBLY	
21	10837150	2	HOSE ASSEMBLY	
22	10701310	4	LOCKWASHER, 3/8	
23	10703227	4	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
24	10138559	1	ROLL-BACK HOSE TRAY	
25	10701404	2	FLAT WASHER, 3/8	
26	4341059	1	HOSE TRAY SUPPORT BRACKET	
27	10700414	2	HEX HD CAPSCREW, 1/2-13X4	
28	10701312	2	LOCKWASHER, 1/2	
29	10701510	2	HEX NUT, 1/2-13	
30	10701506	3	HEX NUT, 1/4-20	
31	10701308	3	LOCKWASHER, 1/4	
32	10238560	1	HOSE MOUNT	
33	10837574	3	SOCKET BUTTON HD CAPSCREW, 1/4-20X3	
34	10837194	2	HOSE ASSEMBLY	
35	10837195	2	HOSE ASSEMBLY	
36	88662037	4	CONNECTOR, (includes o-ring), (Long)	
37	2220451	4	CONNECTOR, (includes o-ring)	
38	10837513	2	HOSE ASSEMBLY	
39	10731059	2	HOSE ASSEMBLY	
40		Ref	HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
101	8307109	3	PLAIN WASHER	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. SECOND AUXILIARY CIRCUIT



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. SECOND AUXILIARY CIRCUIT

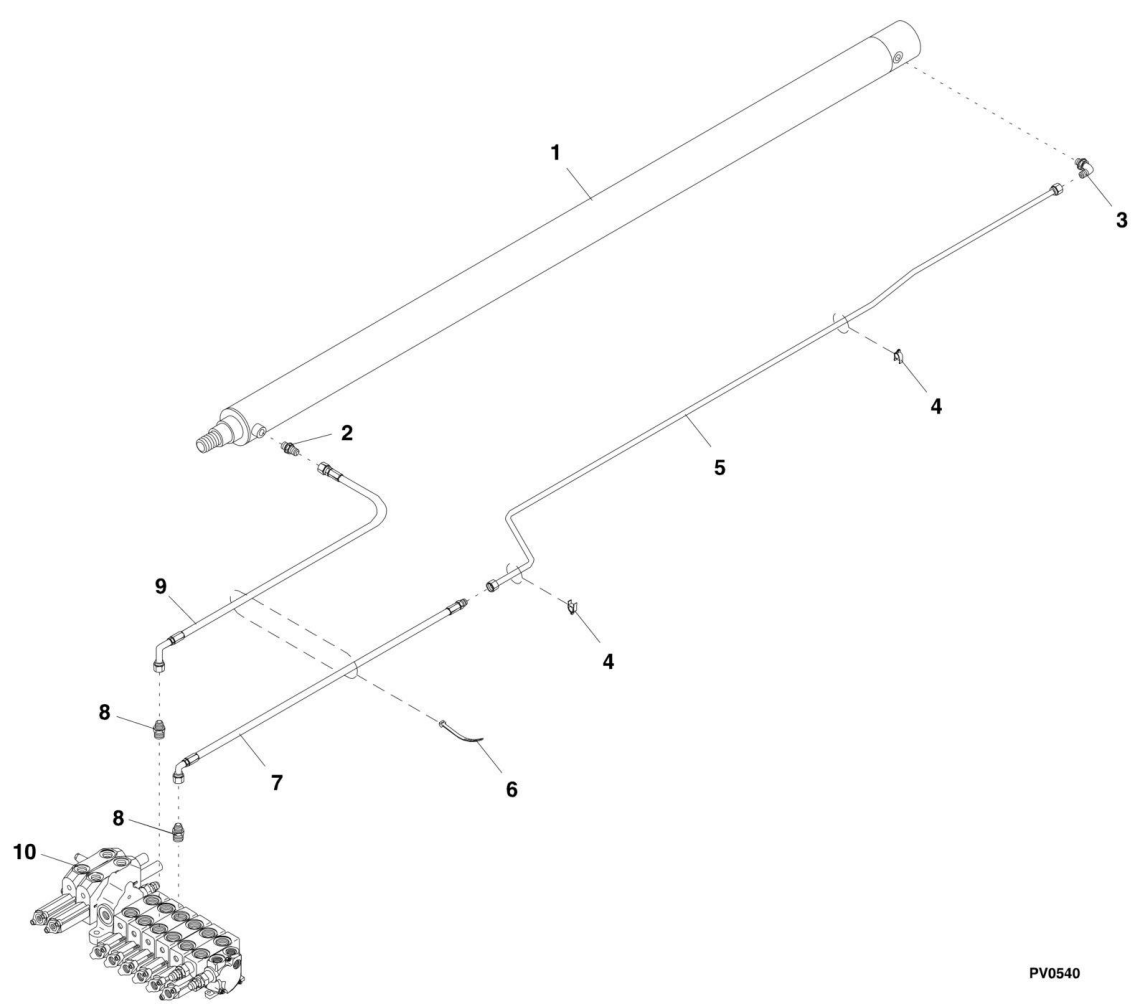
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10868104	2	HOSE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)	
2	1101513	2	SPLIT SHAFT COLLAR	
3	1001131575	6	CUSHION CLAMP	
4	10238747	2	TUBE ASSEMBLY	
5	1100379	6	HEATER HOSE	
6	10717989	6	TIE WRAP	
7	10703237	2	SOCKET BUTTON HD CAPSCREW, 1/2-20X1	
8	4761800	9	LOCK WASHER, 1/2	
9	8406105	2	CLAMP, 5/8	
10	1101505	2	HOSE ASSEMBLY	
11	2220947	8	CONNECTOR, (includes o-ring)	
12	10165945	4	HYD MANIFOLD, (six port)	
13	2220887	4	PLUG, (includes o-ring)	
14	4711800	4	FLAT WASHER, 1/2	
15	0641818	8	HEX HD CAPSCREW, 1/2-13X2-14	
16	10238757	2	TUBE ASSEMBLY	
17	1100990	2	HOSE ASSEMBLY	
18	10720469	AR	TIE WRAP	
19	1101510	2	NYLON SLEEVE, (3 hose)	
20	10167485	2	HOSE HOLD DOWN ROD	
21	10138930	8	TUBE CLAMP	
22	8305645	2	LOCKNUT, 3/8-16	
23	8305624	4	HEX LOCKNUT	
24	10701452	4	FENDER WASHER, 1/4X1-1/2	
25	1101518	4	HOSE CLAMP SPACER	
26	10265086	1	TUBE ASSEMBLY	
27	10265087	1	TUBE ASSEMBLY	
28	8307028	2	STAR WASHER, 1/2	
29	10866717	2	HOSE ASSEMBLY	
30	10720467	4	CUSHION CLAMP, 1/2	
31	10239738	1	TUBE ASSEMBLY	
32	10239739	1	TUBE ASSEMBLY	
33	10727404	1	HOSE ASSEMBLY	
34	10721981	1	HOSE ASSEMBLY	
35	10728200	2	CUSHION CLAMP	
36	2220374	2	CONNECTOR, (includes o-ring)	
37	10701510	1	HEX NUT, 1/2-13 (Prior to SN 0160037900, Excluding 0160037855)	
38	1102074	2	QUICK COUPLER , (includes dust cap and o-ring) (Prior to SN 0160037900, Excluding 0160037855)	
39	10700404	2	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5 (Prior to SN 0160037900, Excluding 0160037855)	
40	3311602	4	HEX NUT, 3/8-16	
41	4791600	8	STAR WASHER, 3/8	
42		Ref	HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
108	2230044	2	BULKHEAD ADAPTER (SN 0160037900 to Present, Including 0160037855)	
133	91403413	1	QUICK DISCONNECT , (female) (SN 0160037900 to Present, Including 0160037855)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
134	91403414	1	QUICK DISCONNECT , (male) (SN 0160037900 to Present, Including 0160037855)	
135	91513106	2	SWIVEL ELBOW (SN 0160037900 to Present, Including 0160037855)	
139	1001102994	2	HOSE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. TRANSFER CYLINDER



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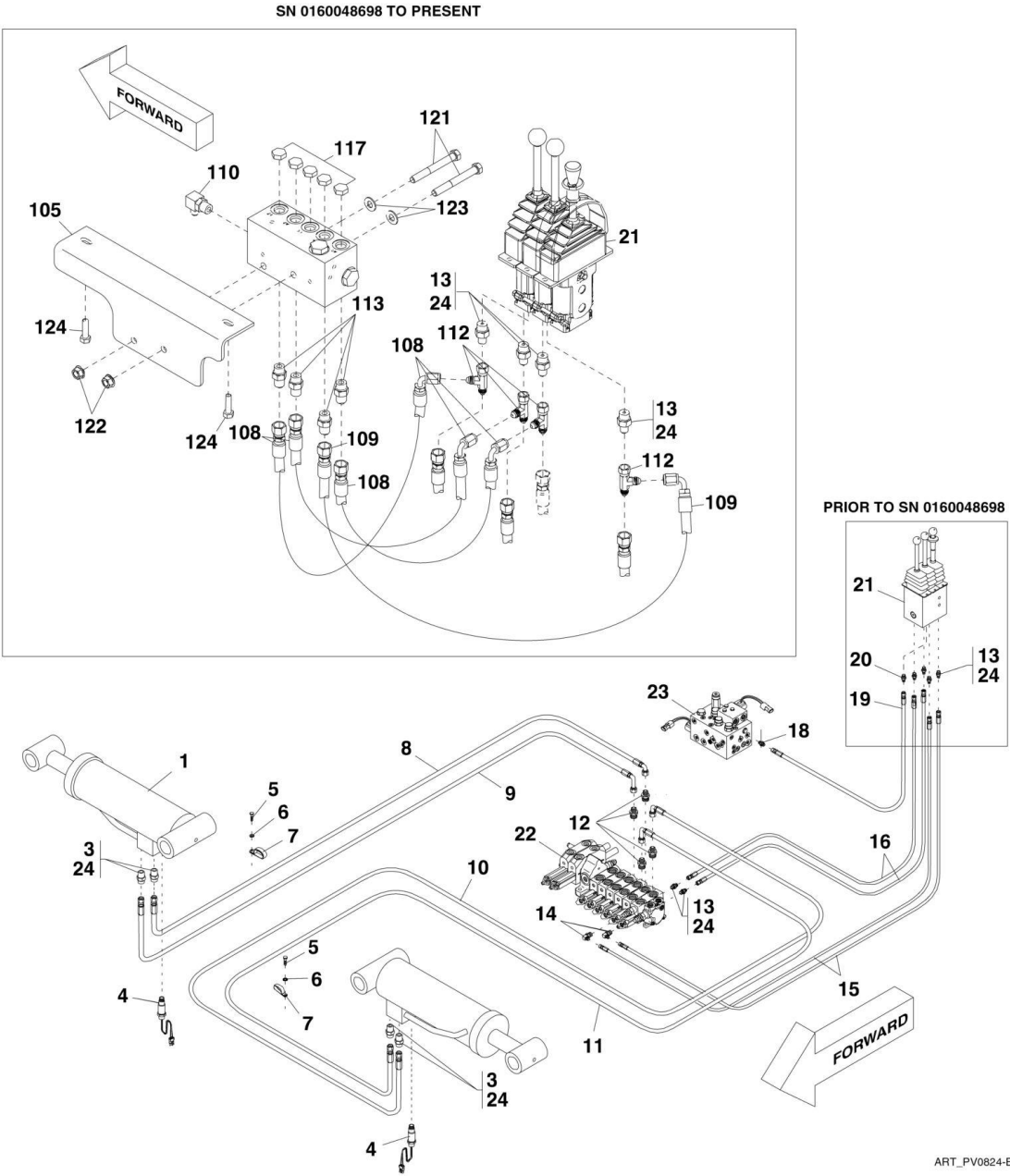
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. TRANSFER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	TRANSFER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	2220373	1	CONNECTOR, (includes o-ring)	
3	2220596	1	ELBOW, 90, (includes o-ring)	
4	10720467	2	CUSHION CLAMP	
5	10236322	1	TUBE ASSEMBLY	
6	10720496	AR	TIE WRAP	
7	10837264	1	HOSE ASSEMBLY	
8	2220374	2	CONNECTOR, (includes o-ring)	
9	10837629	1	HOSE ASSEMBLY	
10		Ref	HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. OUTRIGGER CYLINDER AND JOYSTICK



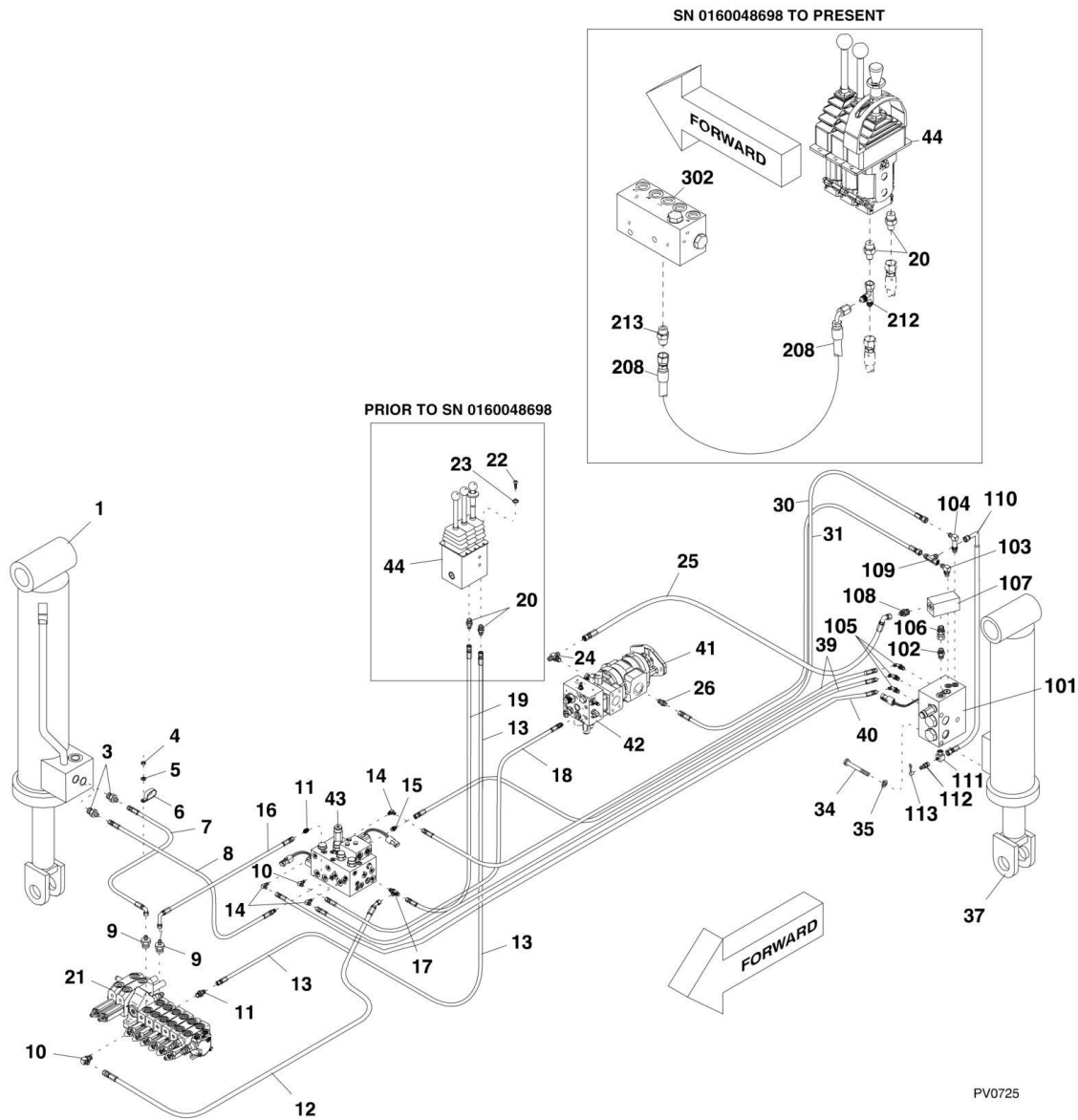
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. OUTRIGGER CYLINDER AND JOYSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	2220373	4	ADAPTER, STRAIGHT THREAD (includes o-ring)	
4	10168441	2	DIFFERENTIAL PRESSURE SWITCH	
5	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4	
6	4761600	2	LOCKWASHER, 3/8	
7	10837368	2	HOSE CLAMP	
8	2754414	1	HOSE ASSEMBLY	
9	2754413	1	HOSE ASSEMBLY	
10	2754412	1	HOSE ASSEMBLY	
11	2754411	1	HOSE ASSEMBLY	
12	2220374	4	STRAIGHT FITTING, (includes o-ring)	
13	2220582	6	STRAIGHT FITTING, (includes o-ring)	
14	2220472	2	ADAPTER, 90, (includes o-ring)	
15	10837646	2	HOSE ASSEMBLY	
16	10837645	2	HOSE ASSEMBLY	
18	10701404	1	STRAIGHT FITTING, (includes o-ring)	
19	10837610	1	HOSE ASSEMBLY	
20	2220582	1	STRAIGHT FITTING, (includes o-ring)	
21		Ref	3 HANDLE SINGLE AXIS CONTROL VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)	
22		Ref	HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
24	0100027	AR	LOCTITE 542	
25	10837115	1	PROXIMITY SWITCH, (not shown)	
104		Ref	SHUTTLE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
105	1001142245	1	BRACKET (SN 0160048698 to Present)	
108	1001143709	3	HOSE ASSEMBLY (SN 0160048698 to Present)	
109	1001143710	1	HOSE ASSEMBLY (SN 0160048698 to Present)	
110	2220472	1	ADAPTER, 90, (includes o-ring) (SN 0160048698 to Present)	
112	2220605	4	TEE FITTING, (includes o-ring) (SN 0160048698 to Present)	
113	2220371	5	STRAIGHT FITTING, (includes o-ring) (SN 0160048698 to Present)	
117	2220237	5	PLUG, (includes o-ring) (SN 0160048698 to Present)	
121	8303107	2	HEX HD CAPSCREW, 3/8-16X3-1/4, GR5 (SN 0160048698 to Present)	
122	8310522	2	HEX LOCKNUT, 3/8-16 (SN 0160048698 to Present)	
123	8307110	2	WASHER, 3/8 (SN 0160048698 to Present)	
124	0641509	2	HEX HD CAPSCRW, 5/16-18X1.13, GR5 (SN 0160048698 to Present)	

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FIGURE 8-7. FRAME LEVEL AND REAR AXLE STABILIZER



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-7. FRAME LEVEL AND REAR AXLE STABILIZER

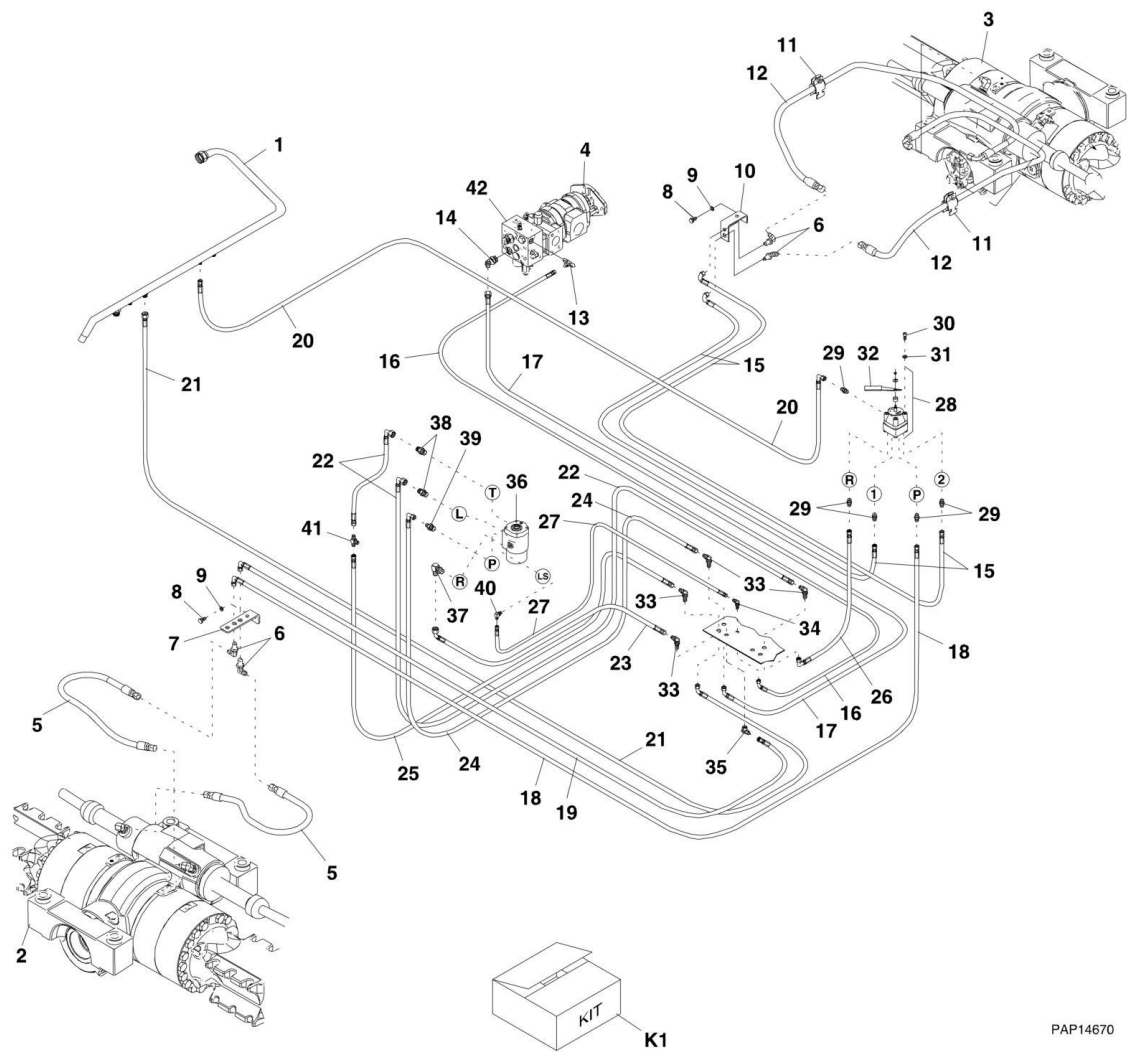
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FRAME TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	2220375	2	CONNECTOR, (includes o-ring)	
4	10701508	1	HEX NUT, 3/8-16	
5	10701310	1	LOCKWASHER, 3/8	
6	10837368	1	HOSE CLAMP	
7	10837516	1	HOSE ASSEMBLY	
8	10866706	1	HOSE ASSEMBLY	
9	2221033	2	CONNECTOR, (includes o-ring)	
10	2220473	2	ADAPTER, 90, (includes o-ring)	
11	2220371	2	CONNECTOR, (includes o-ring)	
12	10837537	1	HOSE ASSEMBLY	
13	10729156	1	HOSE ASSEMBLY	
14	2220466	3	ADAPTER, 90, (includes o-ring)	
15	2220415	2	STRAIGHT FITTING, (includes o-ring)	
16	10866716	1	HOSE ASSEMBLY	
17	2221034	1	TEE FITTING, (includes o-ring)	
18	10866708	1	HOSE ASSEMBLY	
19	10837610	1	HOSE ASSEMBLY	
20	2220582	2	STRAIGHT FITTING, (includes o-ring)	
21		Ref	HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
22	10703196	6	SOCKET BUTTON HD CAPSCREW, 1/4-20X3/4	
23	10701357	6	STAR WASHER, 1/4	
24	2220999	1	TEE FITTING, (includes o-ring)	
25	10837613	1	HOSE ASSEMBLY	
26	10723848	1	CHECK VALVE	
30	10837615	1	HOSE ASSEMBLY	
31	10837614	1	HOSE ASSEMBLY	
34	10700442	3	HEX HD CAPSCREW, 1/2-13X4-1/2, GR8	
35	10701254	3	WASHER, 1/2	
37		Ref	REAR STABILIZER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
39	10729956	2	HOSE ASSEMBLY	
40	10730584	1	HOSE ASSEMBLY	
41		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
42		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
43		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
44		Ref	3 HANDLE SINGLE AXIS CONTROL VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)	
45	10701404	1	WASHER, 3/8	
	10265859	Ref	STABILIZER VALVE INSTALLATION, (not available to order, see items 101 thru 113 for service)	F
101		Ref	REAR AXLE STABILIZER VALVE, (on rear axle), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
102	10723848	1	CHECK VALVE	
103	2220473	1	ADAPTER, 90, (includes o-ring)	
104	2220819	1	ADAPTER, 90, (includes o-ring), (Long)	
105	2220502	3	ADAPTER, 45, (includes o-ring)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106	2220651	1	SWIVEL CONNECTOR	
107		Ref	IN-LINE FILTER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
108	2220373	1	ADAPTER	
109	2220635	1	TEE FITTING	
110	1102026	1	HOSE ASSEMBLY	
111	1102023	1	RELIEF VALVE	
112	8430036	1	DIAGNOSTIC NIPPLE	
113	8430032	1	DUST PLUG	
208	1001143709	1	HOSE ASSEMBLY (SN 0160048698 to Present)	
212	2220605	1	STRAIGHT FITTING, (includes o-ring) (SN 0160048698 to Present)	
213	2220371	1	STRAIGHT FITTING, (includes o-ring) (SN 0160048698 to Present)	
302		Ref	SHUTTLE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. STEERING CYLINDER



PAP14670

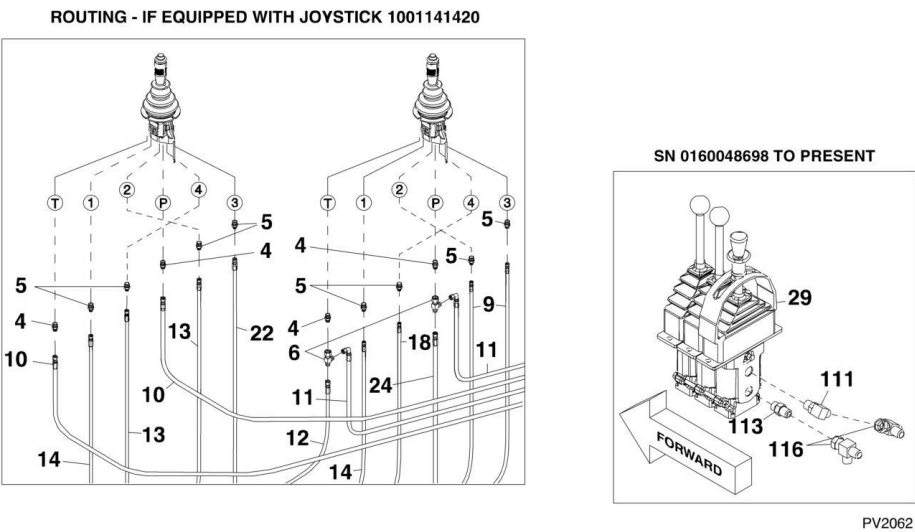
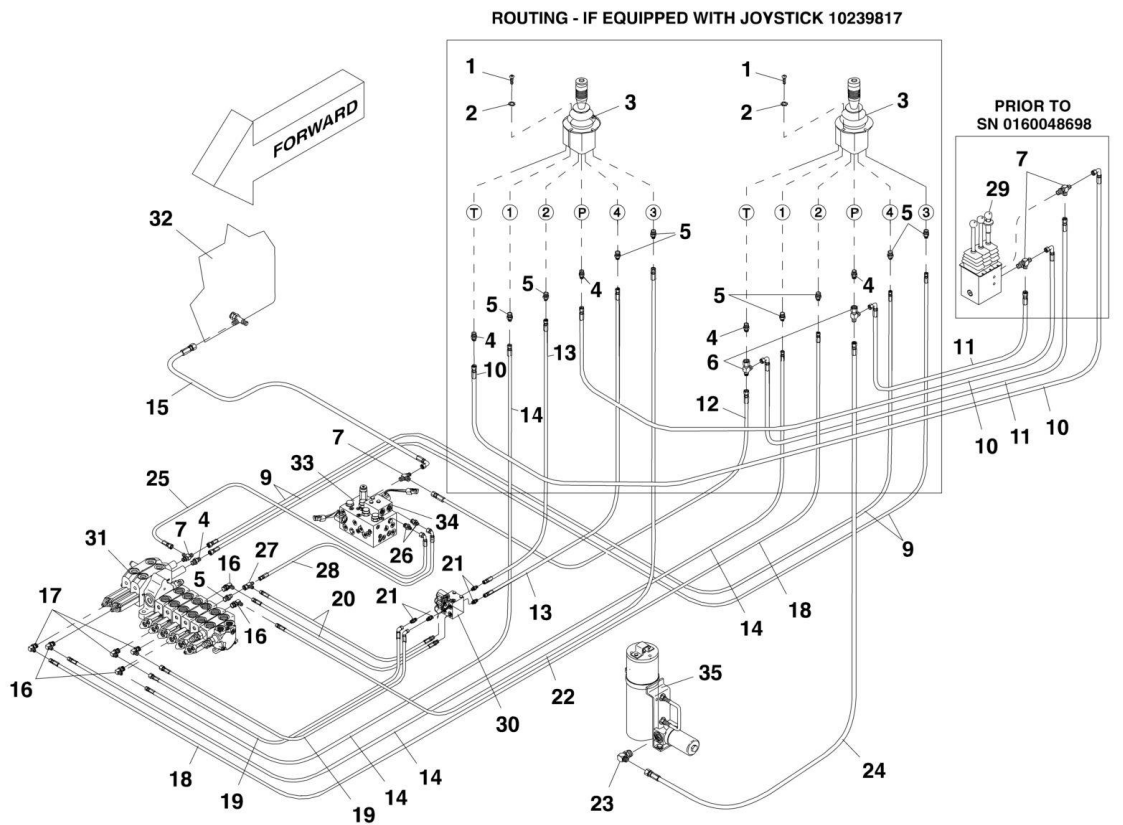
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. STEERING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	RETURN MANIFOLD, (See PUMP, SUCTION - RETURN for Breakdown)	
2		Ref	FRONT AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)	
3		Ref	REAR AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)	
4		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
5	2753315	2	HOSE ASSEMBLY	
6	2230043	4	ELBOW, 90	
7	0903187	1	FRONT HOSE SUPPORT BRACKET	
8	0641606	2	HEX HD CAPSCREW, 3/8-16X1/4	
9	4761600	2	FLAT WASHER, 3/8	
10	10124186	1	REAR HOSE SUPPORT BRACKET	
11	91083217	2	CUSHION CLAMP, 5/8	
12	2753476	2	HOSE ASSEMBLY	
13	2221034	1	RUN TEE, (includes o-ring)	
14	2220500	1	ELBOW, 45	
15	10836591	2	HOSE ASSEMBLY	
16	10837622	1	HOSE ASSEMBLY	
17	10837623	1	HOSE ASSEMBLY	
18	10837175	1	HOSE ASSEMBLY	
19	10724624	1	HOSE ASSEMBLY	
20	10837621	1	HOSE ASSEMBLY	
21	10837507	1	HOSE ASSEMBLY	
22	10728616	2	HOSE ASSEMBLY	
23	2754321	1	HOSE ASSEMBLY	
24	2752474	1	HOSE ASSEMBLY	
25	10719473	1	HOSE ASSEMBLY	
26	10727123	1	HOSE ASSEMBLY	
27	2750790	1	HOSE ASSEMBLY	
28	10729100	1	STEER SELECTOR VALVE	
29	2220371	5	CONNECTOR, (includes o-ring)	
30	3931612	4	SOCKET HD CAPSCREW, 3/8-16X3/4	
31	10701310	4	LOCKWASHER, 3/8	
32	10718085	1	STEER SELECTOR HANDLE	
33	8770189	4	BULKHEAD ELBOW, 45	
34	2230031	1	BULKHEAD ELBOW, 45	
35	2220657	1	ELBOW, 45, (swivel nut)	
36	10239751	1	STEER MOTOR	
37	2220596	1	ELBOW, 90, (includes o-ring)	
38	10837053	2	CONNECTOR, (includes o-ring)	
39	10719414	1	CHECK VALVE	
40	2220466	1	ELBOW, 90, (includes o-ring)	
41	2220490	1	UNION TEE	
42		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
K1	2902422	1	HYDRAULIC HOSE 4D COMMON KIT	

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FIGURE 8-9. JOYSTICK CONTROL CIRCUIT

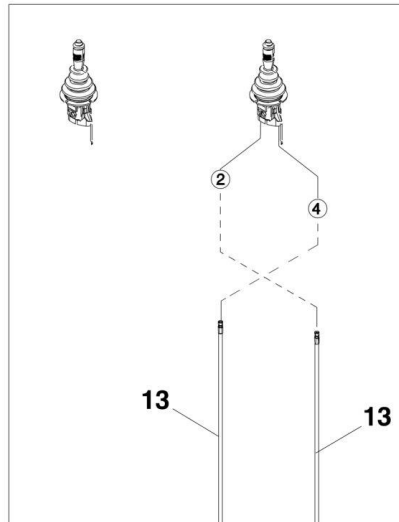


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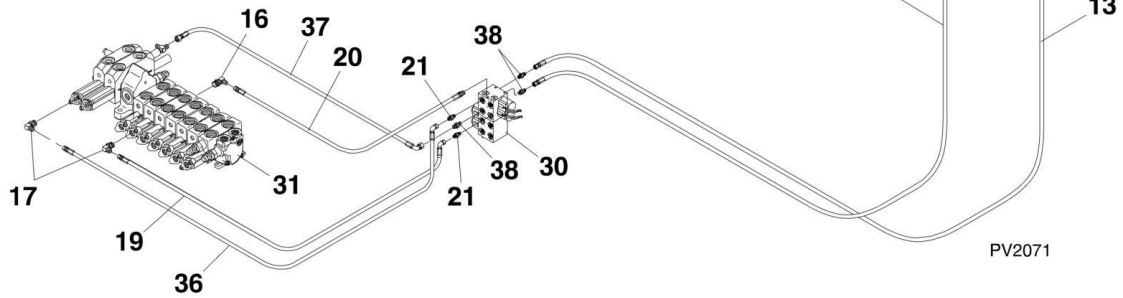
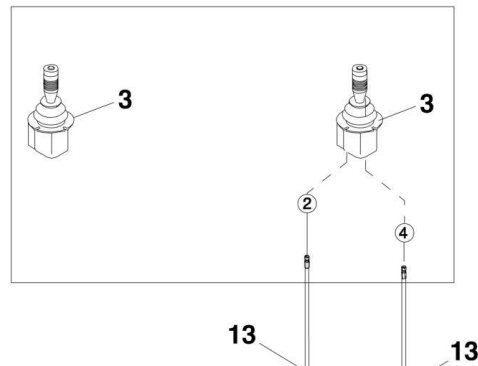
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2 AUX OPTION

ROUTING - IF EQUIPPED WITH JOYSTICK 1001141420



ROUTING - IF EQUIPPED WITH JOYSTICK 10239817



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FIGURE 8-9. JOYSTICK CONTROL CIRCUIT

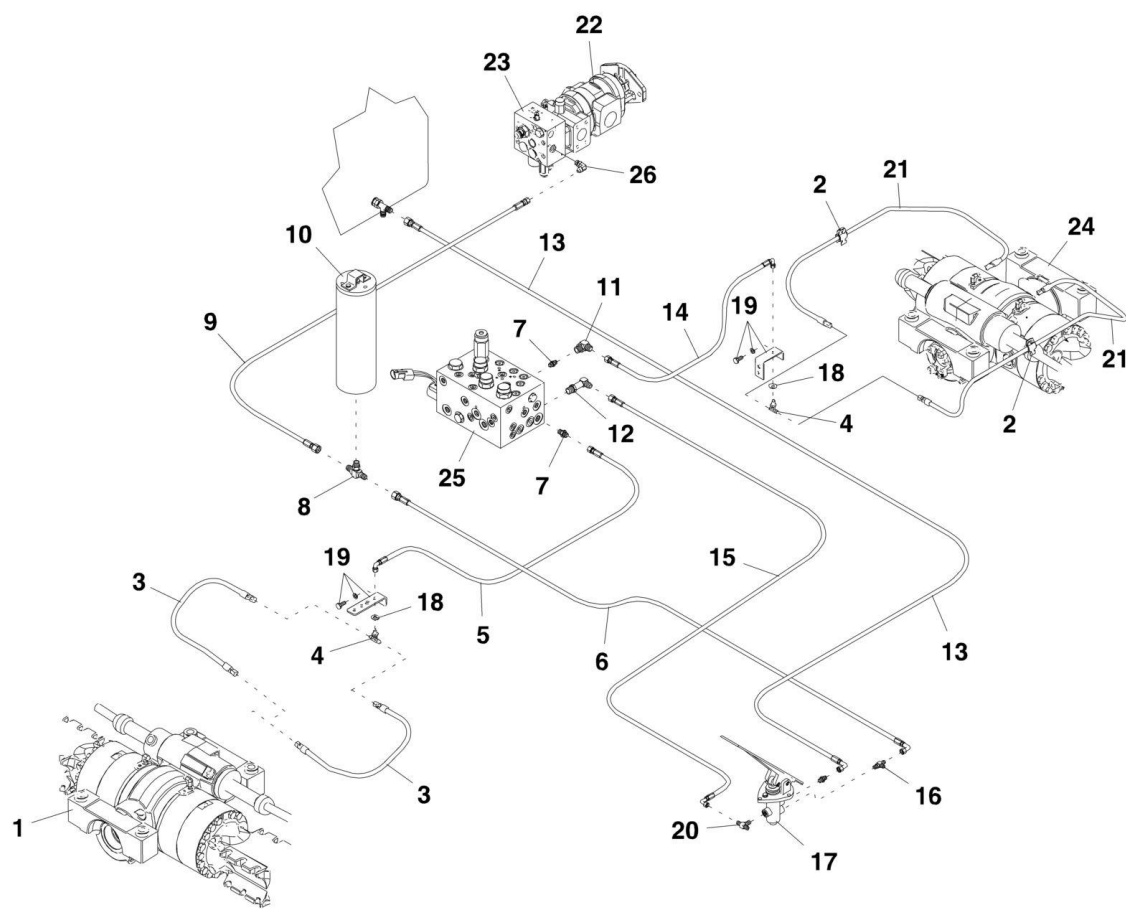
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10703196	8	SOCKET BUTTON HD CAPSCREW, 1/4-20X3/4	
2	10701357	8	STAR WASHER, 1/4	
3		Ref	JOYSTICK, (See CONTROLS SECTION for Breakdown)	
4	2220371	5	STRAIGHT FITTING, (includes o-ring)	
5	2220582	9	STRAIGHT FITTING, (includes o-ring)	
6	2220635	2	TEE FITTING, (includes o-ring)	
7	2220606	4	TEE FITTING, (includes o-ring)	
9	10729155	2	HOSE ASSEMBLY	
10	10724641	2	HOSE ASSEMBLY	
11	10720460	2	HOSE ASSEMBLY	
12	10718856	1	HOSE ASSEMBLY	
13	10837505	2	HOSE ASSEMBLY	
14	10733052	2	HOSE ASSEMBLY	
15	10719890	1	HOSE ASSEMBLY	
16	2220472	4	ADAPTER, 90, (includes o-ring), (Single Aux)	
16	2220472	1	ADAPTER, 90, (includes o-ring), (Dual Aux)	
17	2220473	3	ADAPTER, 90, (includes o-ring), (Single Aux)	
17	2220473	2	ADAPTER, 90, (includes o-ring), (Dual Aux)	
18	10837607	1	HOSE ASSEMBLY, (Single Aux)	
19	10837536	2	HOSE ASSEMBLY, (Single Aux)	
19	10837536	1	HOSE ASSEMBLY, (Dual Aux)	
20	10837295	2	HOSE ASSEMBLY, (Single Aux)	
20	10837295	1	HOSE ASSEMBLY, (Dual Aux)	
21	2220415	4	STRAIGHT FITTING, (includes o-ring), (Single Aux)	
21	2220415	2	STRAIGHT FITTING, (includes o-ring), (Dual Aux)	
22	10732416	1	HOSE ASSEMBLY	
23	2220366	1	ADAPTER, 90, (includes o-ring)	
24	10723862	1	HOSE ASSEMBLY	
25	10866709	1	HOSE ASSEMBLY	
26		Ref	CHECK VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
27	2220605	1	TEE FITTING, (includes o-ring)	
28	10837524	1	HOSE ASSEMBLY	
29		Ref	3 HANDLE SINGLE AXIS CONTROL VALVE, (See CONTROLS SECTION for Breakdown)	
30		Ref	6 PORT CIRCUIT SELECTOR VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
31		Ref	HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
32		Ref	FUEL/HYDRAULIC TANK ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
33		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
34		Ref	BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
35		Ref	PRESSURE FILTER/ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
36	10837537	1	HOSE ASSEMBLY, (Dual Aux)	
37	10837639	1	HOSE ASSEMBLY, (Dual Aux)	
38	2220603	3	STRAIGHT FITTING, (Dual Aux)	
111	2220472	1	ADAPTER, 90, (includes o-ring) (SN 0160048698 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
113	2220371	1	STRAIGHT FITTING, (includes o-ring) (SN 0160048698 to Present)	
116	2220635	2	ADAPTER, 90, (includes o-ring) (SN 0160048698 to Present)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. SERVICE BRAKE CIRCUIT



PV0880

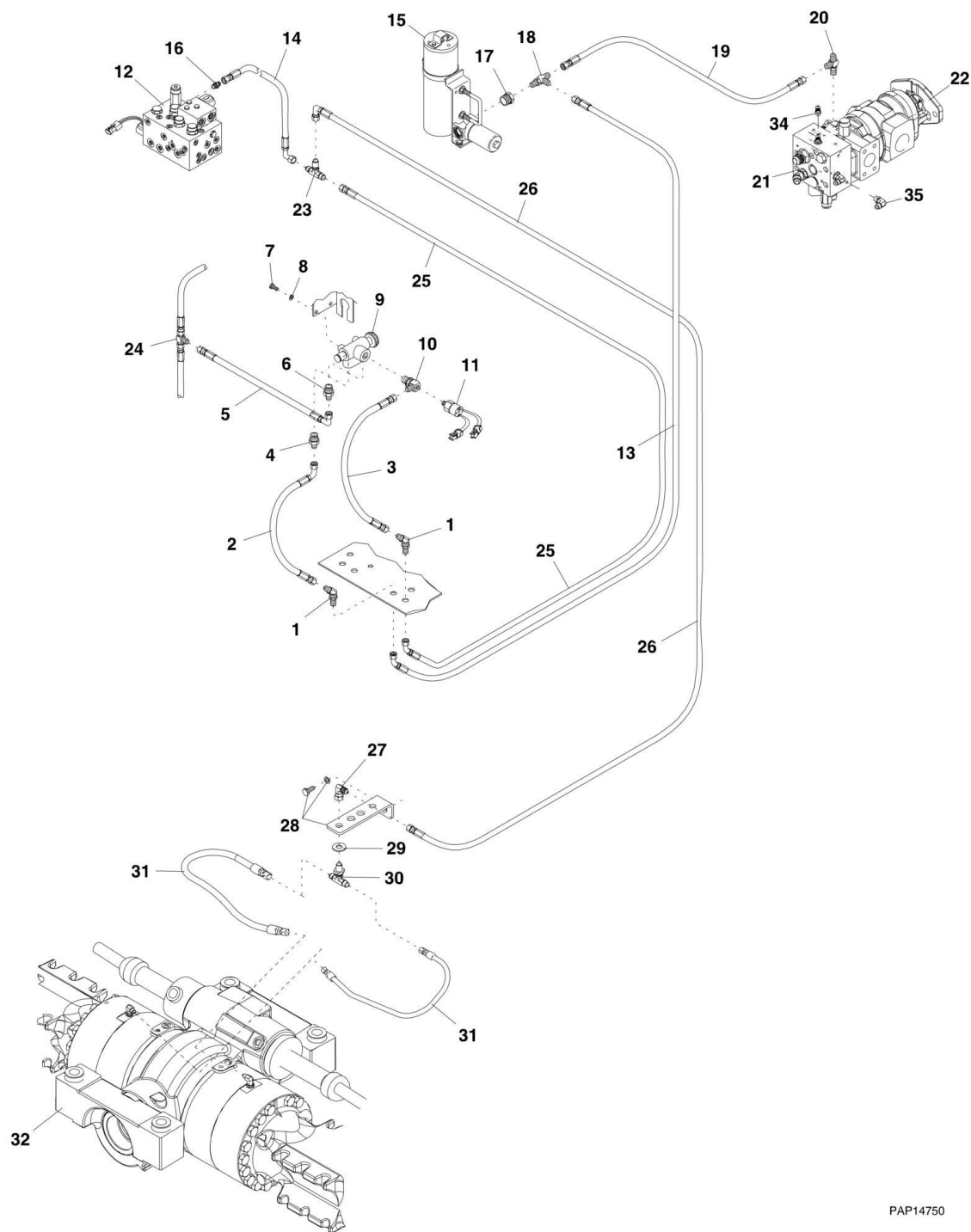
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. SERVICE BRAKE CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FRONT AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)	
2	91083216	2	CUSHION CLAMP, 1/2	
3	2752908	2	HOSE ASSEMBLY	
4	10726099	2	BULKHEAD TEE	
5	10837261	1	HOSE ASSEMBLY	
6	10837515	1	HOSE ASSEMBLY	
7	2220371	2	CONNECTOR, (includes o-ring)	
8	10165644	1	TEE, (includes o-ring)	
9	10728616	1	HOSE ASSEMBLY	
10		Ref	ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11	8760268	1	ELBOW, 90, (includes o-ring)	
12	2220819	1	ELBOW, 90, (includes o-ring), (long)	
13		Ref	PUMP, SUCTION - RETURN CIRCUIT, (See PUMP, SUCTION - RETURN for Breakdown)	
14	10837252	1	HOSE ASSEMBLY	
15	10727667	1	HOSE ASSEMBLY	
16	2220606	1	TEE, (includes o-ring)	
17		Ref	BRAKE VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)	
18	10701404	2	FLAT WASHER, 3/8	
19		Ref	BRACKET AND MOUNTING HARDWARE, (See STEERING CYLINDER for Breakdown)	
20	2220899	1	BRANCH TEE, (includes o-ring)	
21	2752983	2	HOSE ASSEMBLY	
22		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
24		Ref	REAR AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)	
25		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
26	2220473	1	ELBOW, 90	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-11. PARK BRAKE CIRCUIT



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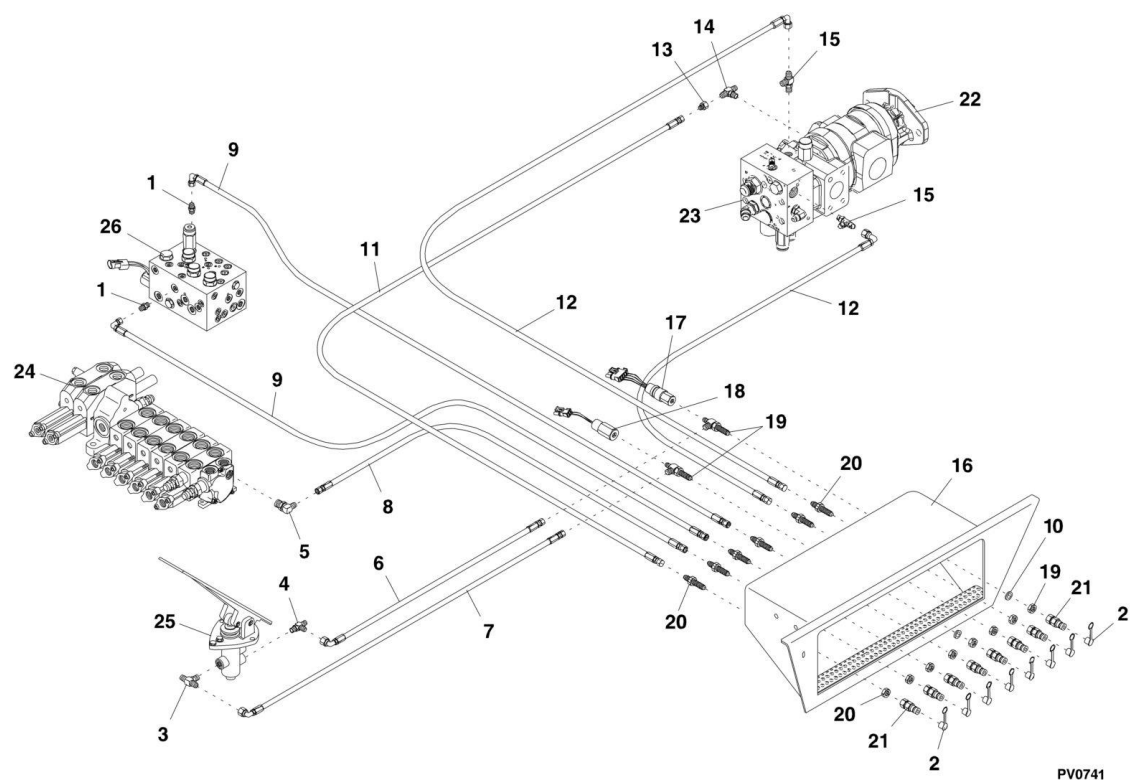
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-11. PARK BRAKE CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770189	2	BULKHEAD ELBOW, 45	
2	10727185	1	HOSE ASSEMBLY	
3	10719891	1	HOSE ASSEMBLY	
4	10719414	1	CHECK VALVE	
5	10720857	1	HOSE ASSEMBLY	
6	10165649	1	CHECK VALVE	
7	10700102	2	HEX HD CAPSCREW, 5/16-18X3/4	
8	10701309	2	LOCKWASHER, 5/16	
9		Ref	PARKING BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
10	10166940	1	ELBOW, 90, (includes o-ring)	
11	10166941	1	PRESSURE SWITCH	
12		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
13	10837508	1	HOSE ASSEMBLY	
14	2754334	1	HOSE ASSEMBLY	
15		Ref	PRESSURE FILTER/ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
16	2220415	1	ADAPTOR, (includes o-ring)	
17	2220221	1	ADAPTOR, (includes o-ring)	
18	2220606	1	SWIVEL TEE	
19	10729167	1	HOSE ASSEMBLY	
20	2221034	1	TEE, (includes o-ring)	
21		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
22		Ref	TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23	10718942	1	BULKHEAD UNION TEE	
24		Ref	STEERING HYDRAULIC CIRCUIT, (See STEERING CYLINDER for Breakdown)	
25	2754335	1	HOSE ASSEMBLY	
26	2754333	1	HOSE ASSEMBLY	
27	2220654	1	ELBOW, 90, (swivel nut)	
28		Ref	BRACKET AND MOUNTING HARDWARE, (See STEERING CYLINDER for Breakdown)	
29	10701404	1	FLAT WASHER, 3/8	
30	10726099	1	BRANCH TEE	
31	2752908	2	HOSE ASSEMBLY, (not shown)	
32		Ref	FRONT AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)	
33	10724679	1	HOSE ASSEMBLY, (not shown)	
34	2220473	1	ELBOW, 90, (includes o-ring), (not shown)	
35	2220466	1	ELBOW, 90, (includes o-ring), (not shown)	

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FIGURE 8-12. TEST PORT HYDRAULIC ASSEMBLY



PV0741

SECTION 8 - HYDRAULIC CIRCUITS

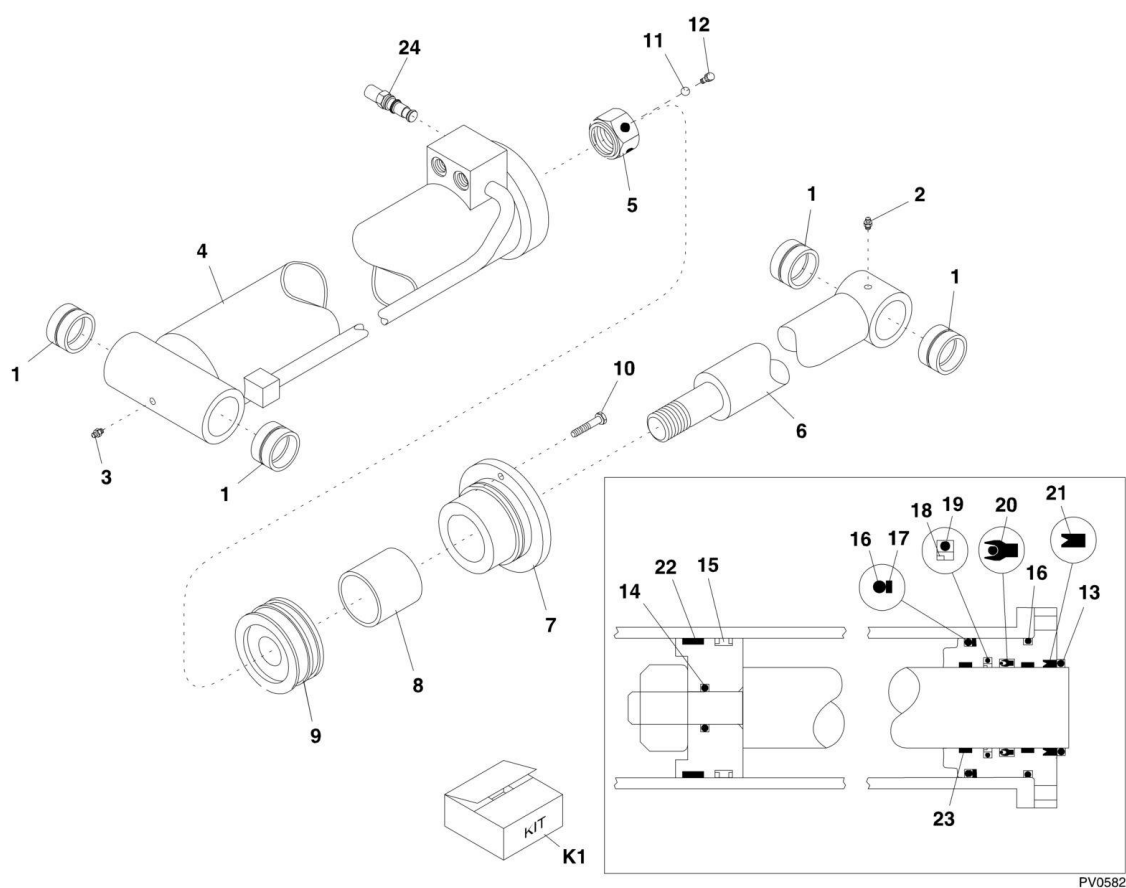
FIGURE 8-12. TEST PORT HYDRAULIC ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2220415	2	CONNECTOR, (includes o-ring)	
2	8430032	8	DUST CAP	
3	2220899	1	BRANCH TEE, (includes o-ring)	
4	2220606	1	RUN TEE, (includes o-ring)	
5	2220472	1	ELBOW, 90, (includes o-ring)	
6	10837821	1	HOSE ASSEMBLY	
7	10837173	1	HOSE ASSEMBLY	
8	10725239	1	HOSE ASSEMBLY	
9	10727151	2	HOSE ASSEMBLY	
10	10701253	2	FLAT WASHER, 7/16	
11	10837166	1	HOSE ASSEMBLY	
12	10837619	2	HOSE ASSEMBLY	
13	2220619	1	REDUCER ADAPTER	
14	2220999	1	BRANCH TEE, (includes o-ring)	
15	2221034	2	RUN TEE, (includes o-ring)	
16		Ref	OPERATORS STEP, (See CAB SECTION for Breakdown)	
17	10166680	1	PRESSURE SWITCH - D.P.S.T NORMALLY CLOSED, LOW BRAKE PRESSURE, (850psi)	
18	10166679	1	PRESSURE SWITCH - S.P.S.T NORMALLY OPEN, SERVICE BRAKE, (250psi)	
19	10728823	2	BULKHEAD CONNECTOR TEE	
20	2230021	6	BULKHEAD CONNECTOR	
21	8430036	8	NIPPLE END TUBE	
22		Ref	TANDEM PUMP ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
24		Ref	HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
25		Ref	BRAKE VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)	
26		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 9 - HYDRAULIC COMPONENTS

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. FRONT CARRIAGE TILT CYLINDER (Prior to SN 0160037900, Excluding 0160037855)



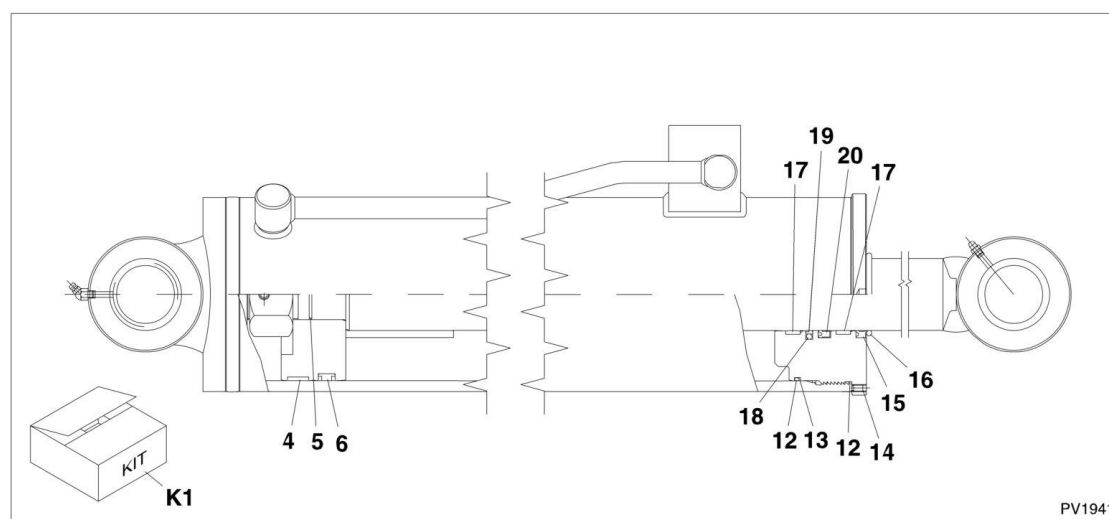
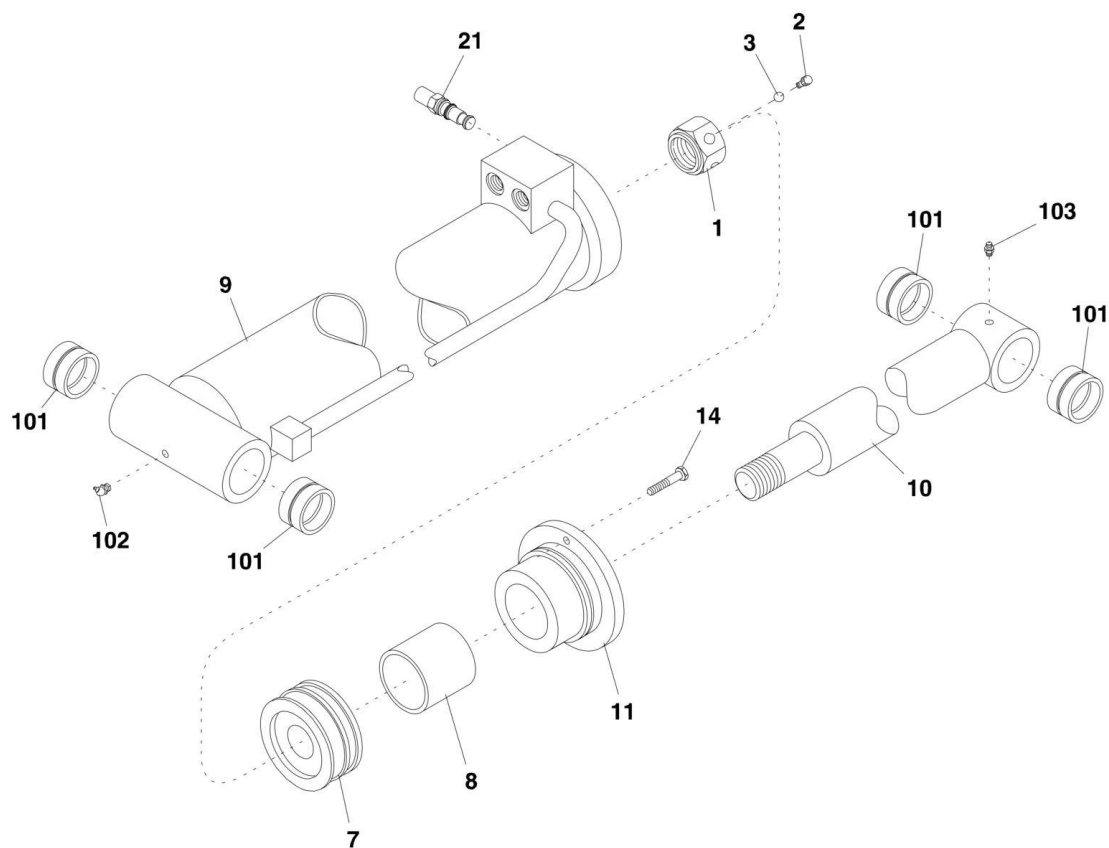
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. FRONT CARRIAGE TILT CYLINDER (Prior to SN 0160037900, Excluding 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2717046	1	FRONT CARRIAGE TILT CYLINDER, (includes all items)	D
1	10719106	4	BUSHING	
2	10716611	1	GREASE FITTING	
3	10715367	1	GREASE FITTING, 45	
4	7029132	1	BARREL WELDMENT	
5	8036536	1	SPECIAL NUT, (torque to 2600-2800 lb-ft)	
6	8036539	1	ROD WELDMENT	
7	7029133	1	GUIDE	
8	7029134	1	TUBE	
9	7029135	1	PISTON	
10	8036811	1	SET SCREW, 1/4-20X3/8	
11	8036538	2	NYLON BALL	
12	8036537	2	SET SCREW, 3/8-16X3/8	
13	7029136	1	O-RING	
14	Kit	1	O-RING	
15	Kit	1	PISTON SEAL	
16	Kit	2	O-RING	
17	Kit	1	BACK-UP RING	
18	Kit	1	ROD BUFFER	
19	Kit	1	O-RING	
20	Kit	1	SEAL	
21	Kit	1	ROD WIPER	
22	Kit	1	WEAR RING	
23	Kit	2	WEAR RING	
24	10729947	1	CARTRIDGE, COUNTERBALANCE VALVE	
24	2900770	1	SEAL KIT	
K1	8036562	1	SEAL KIT, (includes items 14 thru 23)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. FRONT CARRIAGE TILT CYLINDER (SN 0160037900 to Present, Including 0160037855)



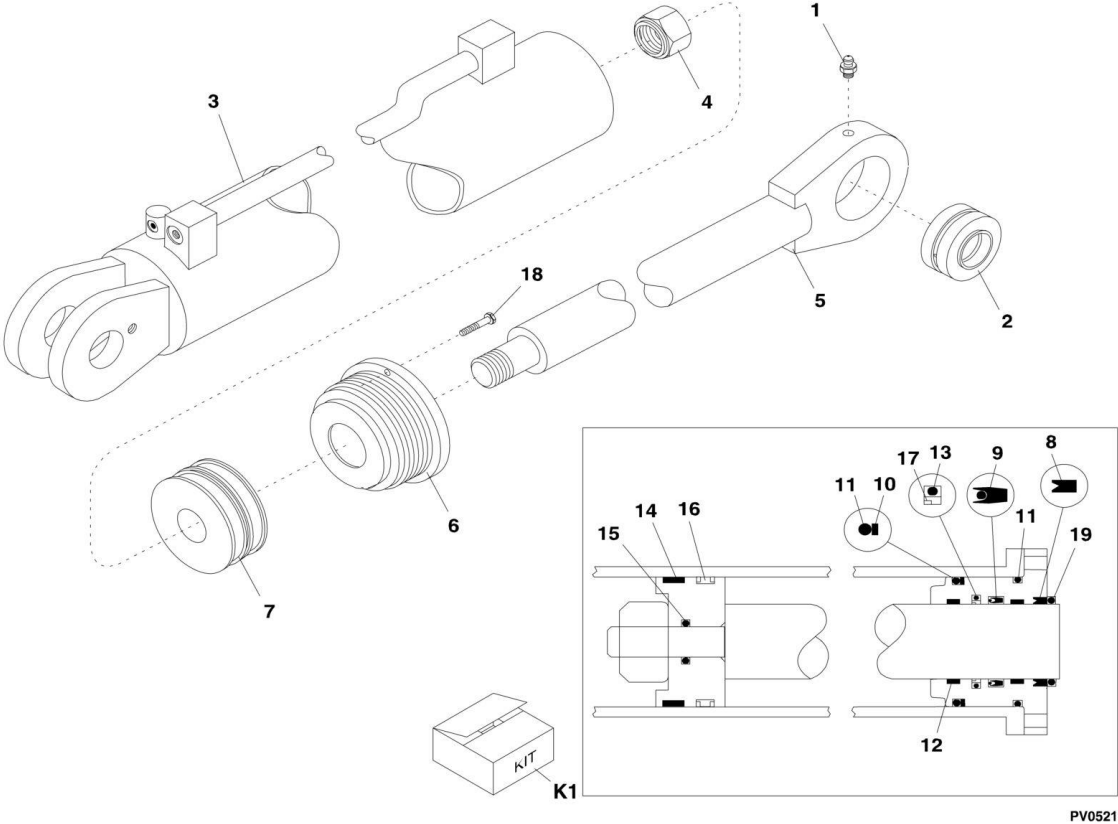
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. FRONT CARRIAGE TILT CYLINDER (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103643	1	FRONT CARRIAGE TILT CYLINDER, (includes all items)	C
1	8036536	1	SPECIAL NUT, 1-3/4-12	
2	8036537	1	HEX SOCKET SCREW, 3/8-16X3/8	
3	8036538	1	NYLON BALL	
4	Kit	1	WEAR RING	
5	Kit	1	O-RING	
6	Kit	1	T-SEAL PISTON	
7	7029135	1	PISTON	
8	70022749	1	TUBE	
9	70022750	1	CYLINDER BODY	
10	70022751	1	ROD	
11	7029133	1	GUIDE	
12	Kit	2	O-RING	
13	Kit	1	BACK-UP RING	
14	8036811	1	HEX SOCKET SCREW, 1/4-20X3/8	
15	Kit	1	WIPER	
16	7029136	1	O-RING	
17	Kit	2	WEAR RING	
18	Kit	1	O-RING	
19	Kit	1	ROD BUFFER	
20	Kit	1	Z-SEAL	
21	10729947	1	COUNTERBALANCE VALVE	
101	70022763	4	BUSHING	
102	70022764	1	GREASE FITTING, 45	
103	8036823	1	GREASE FITTING, STRAIGHT	
K1	8036562	1	SEAL KIT, (includes items 4 thru 6, 12, 13, 15 & 17 thru 20)	

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FIGURE 9-3. REAR CARRIAGE TILT CYLINDER



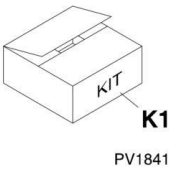
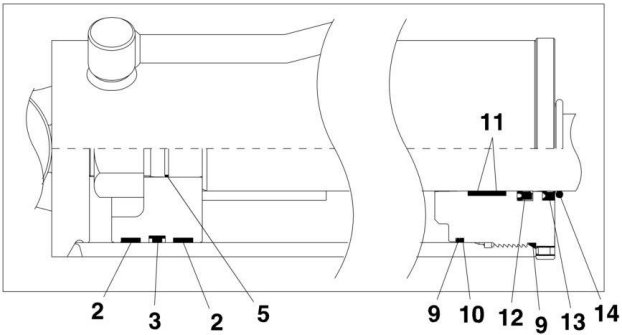
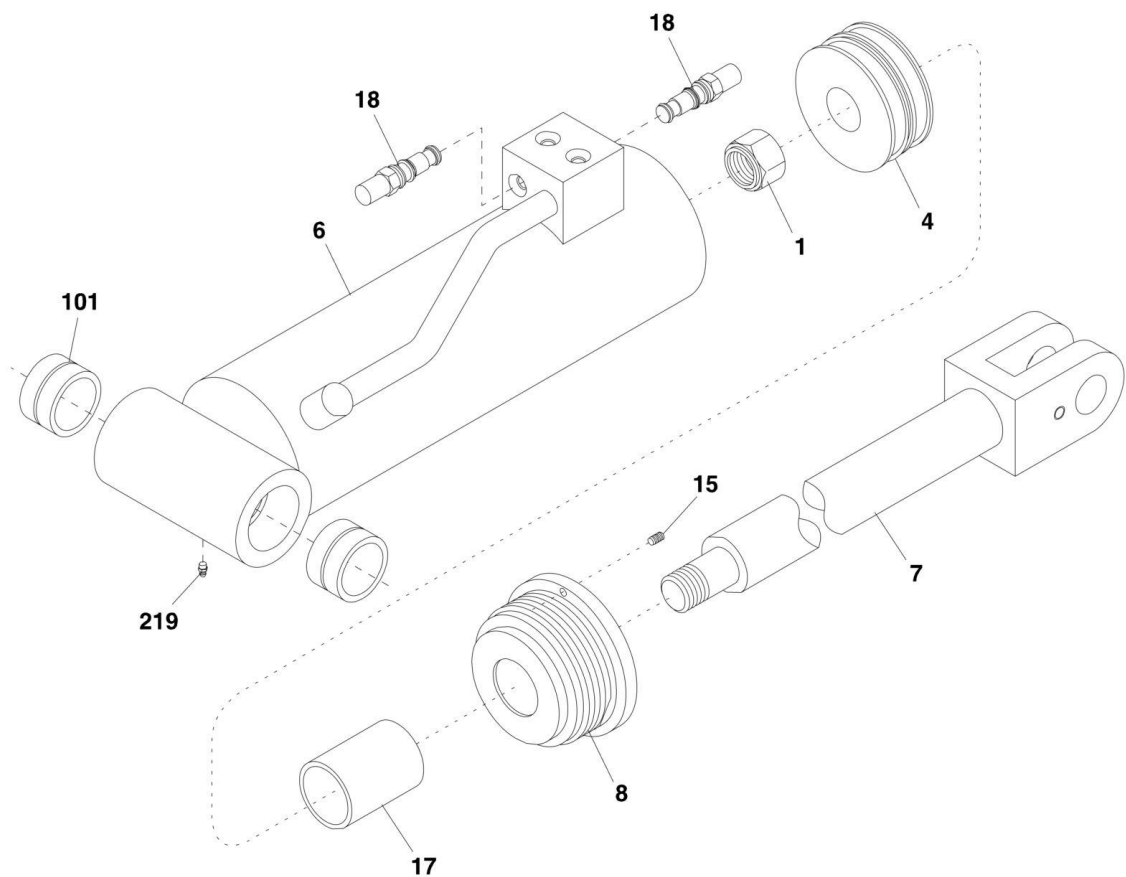
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-3. REAR CARRIAGE TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2717045	2	REAR CARRIAGE TILT CYLINDER, (includes all items)	AB
1	88671025	1	GREASE FITTING	
2	8050001	1	SELF-ALIGNED BUSHING	
3	7029142	1	BARREL WELDMENT	
4	7029140	1	SPECIAL NUT, (torque to 930-1000 lb-ft)	
5	7029143	1	ROD WELDMENT	
6	7029144	1	GUIDE	
7	7029141	1	PISTON	
8	Kit	1	WIPER	
9	Kit	1	SEAL	
10	Kit	1	BACK-UP RING	
11	Kit	2	O-RING	
12	Kit	2	WEAR RING	
13	Kit	1	O-RING	
14	Kit	1	WEAR RING	
15	Kit	1	O-RING	
16	Kit	1	PISTON SEAL	
17	Kit	1	ROD BUFFER	
18	7017283	1	SET SCREW, 1/4-20X3/8	
19	7029145	1	O-RING	
K1	8036561	1	SEAL KIT, (includes items 8 thru 17)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY.	

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FIGURE 9-4. FRAME TILT CYLINDER



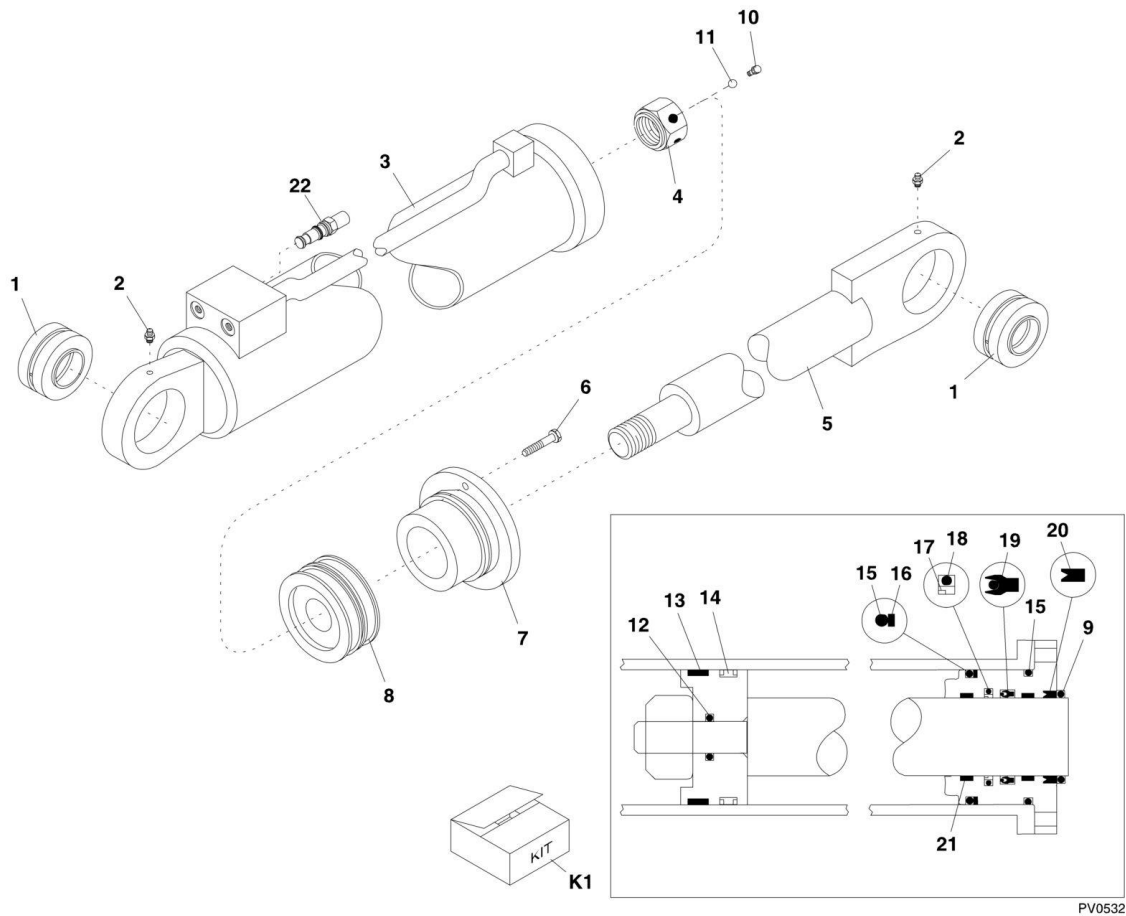
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-4. FRAME TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684460	1	FRAME TILT CYLINDER, (includes items 1 thru 18)	D
1	8036825	1	LOCKNUT, 1-1/2-12	
2	Kit	2	WEAR RING	
3	Kit	1	PISTON T-SEAL	
4	7029149	1	PISTON	
5	Kit	1	O-RING	
6	7029150	1	BARREL WELDMENT	
7	70022612	1	ROD WELDMENT	
8	7029152	1	ROD GUIDE	
9	Kit	2	O-RING	
10	Kit	1	BACK-UP RING	
11	Kit	2	WEAR RING	
12	Kit	1	Z-SEAL	
13	Kit	1	CANNED WIPER	
14	7029153	1	O-RING	
15	7017283	1	SET SCREW, 1/4-20	
17	7029154	1	TUBE	
18	10729947	2	COUNTERBALANCE VALVE	
18	2900770	1	SEAL KIT	
101	10116228	2	BUSHING	
219	10715367	1	GREASE FITTING	
K1	8036557	1	SEAL KIT, (includes items 2, 3, 5 & 9 thru 13)	

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FIGURE 9-5. HOIST CYLINDER



PV0532

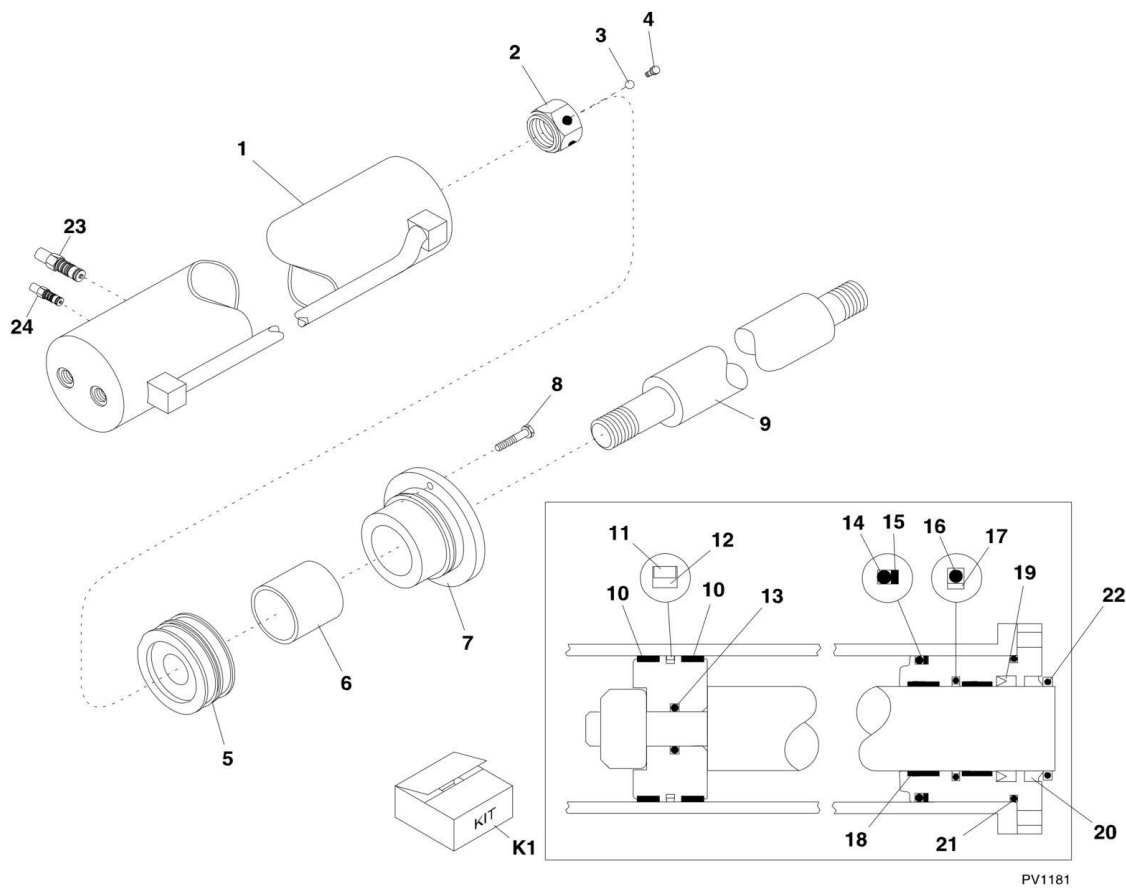
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-5. HOIST CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2717042	2	HOIST CYLINDER, (includes all items)	D
1	10718830	2	SELF-ALIGNED BUSHING	
2	10716611	2	GREASE FITTING	
3	7029146	1	BARREL WELDMENT	
4	8036536	1	SPECIAL NUT, (torque to 2600-2800 lb-ft)	
5	8036540	1	ROD WELDMENT	
6	7017283	1	SET SCREW, 1/4-20X3/8	
7	7029147	1	GUIDE	
8	7029135	1	PISTON	
9	7029148	1	O-RING	
10	8036537	1	SET SCREW, 3/8-16X3/8	
11	8036538	1	NYLON BALL	
12	Kit	1	O-RING	
13	Kit	1	WEAR RING	
14	Kit	1	PISTON SEAL	
15	Kit	2	O-RING	
16	Kit	1	BACK-UP RING	
17	Kit	1	ROD BUFFER	
18	Kit	1	O-RING	
19	Kit	1	SEAL	
20	Kit	1	ROD WIPER	
21	Kit	2	WEAR RING	
22	10729947	1	CARTRIDGE, COUNTERBALANCE VALVE	
22	2900770	1	SEAL KIT	
K1	7028622	1	SEAL KIT, (includes items 11 thru 21)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-6. BOOM EXTENSION CYLINDER



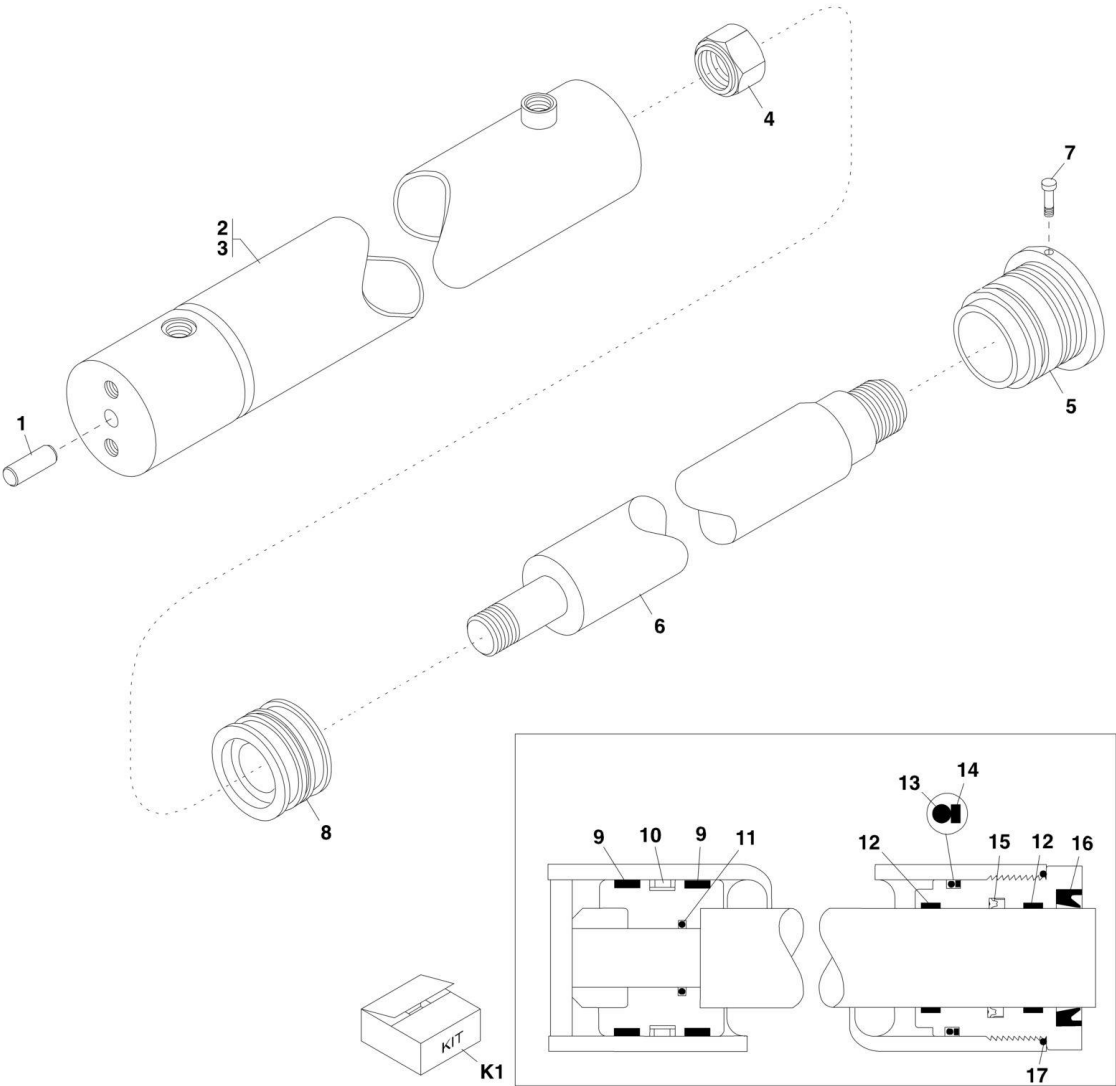
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-6. BOOM EXTENSION CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2717047	1	BOOM EXTENSION CYLINDER, (includes all items)	D
1	7029157	1	BARREL WELDMENT	
2	8036536	1	SPECIAL NUT, (torque to 1735-1885 lb-ft)	
3	8036538	2	NYLON BALL	
4	8036537	2	SET SCREW, 3/8-16X3/8	
5	7029155	1	PISTON	
6	7029156	1	TUBE	
7	7029160	1	GUIDE	
8	7017283	1	SET SCREW, 1/4-20X3/8	
9	7029158	1	ROD WELDMENT	
10	Kit	2	WEAR RING	
11	Kit	1	PISTON SEAL	
12	Kit	1	EXP SQUARE	
13	Kit	1	O-RING	
14	Kit	1	O-RING	
15	Kit	1	BACK-UP RING	
16	Kit	1	O-RING	
17	Kit	1	ROD BUFFER	
18	Kit	2	WEAR RING	
19	Kit	1	U CUP LIP	
20	Kit	1	WIPER RING	
21	Kit	1	O-RING	
22	7029159	1	O-RING	
23	10730444	1	COUNTERBALANCE VALVE CARTRIDGE	
23	10740491	1	SEAL KIT	
24	10727827	1	COUNTERBALANCE VALVE CARTRIDGE	
24	10730927	1	SEAL KIT	
K1	8036563	1	SEAL KIT, (includes items 10 thru 21)	

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FIGURE 9-7. TRANSFER CYLINDER



PV0552

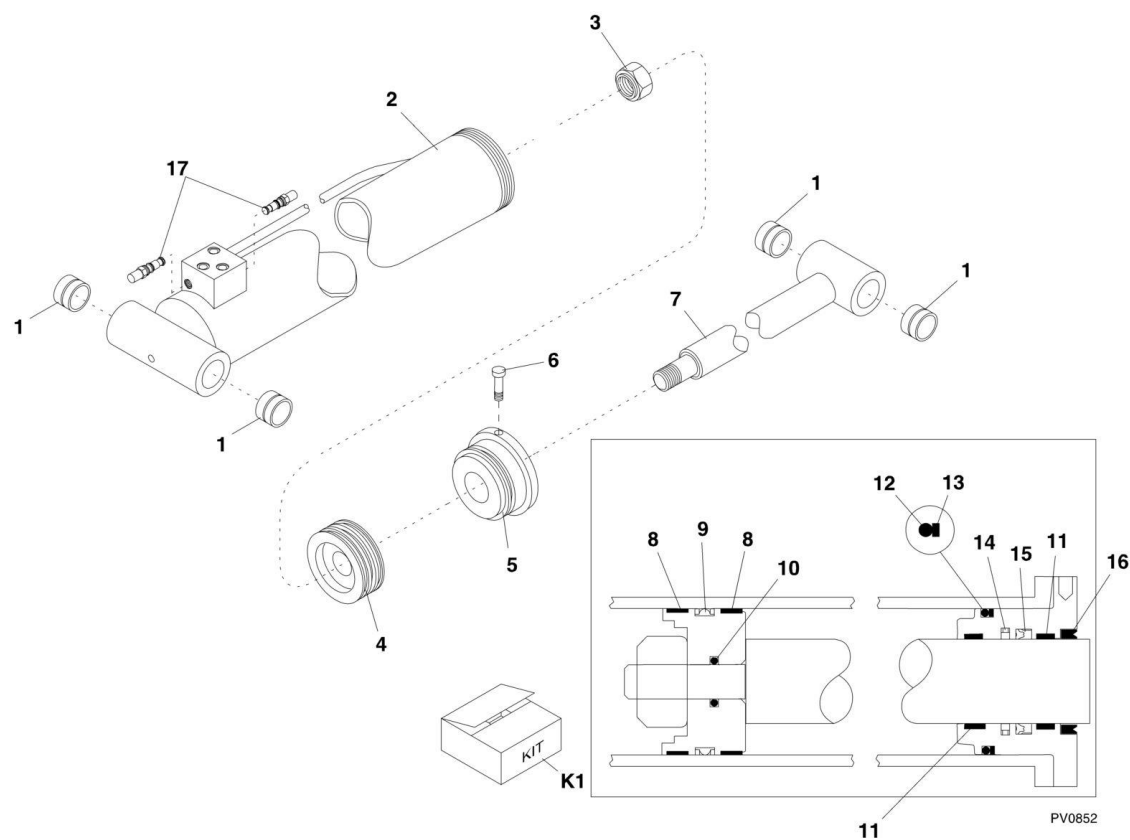
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-7. TRANSFER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1102018	1	TRANSFER CYLINDER ASSY, (includes all items)	AA
1	10837143	1	DOWEL PIN, .75X2	
2	1102022	NLA	TRANSFER CYLINDER, (no longer available, use 1102018 for replacement or items 3 thru 17 for service)	
3	7029167	1	BARREL WELDMENT	
4	7029168	1	SPECIAL NUT	
5	7029169	1	HEAD	
6	7029170	1	ROD WELDMENT	
7	7029171	1	SELF TAPPING SET SCREW	
8	7029172	1	PISTON	
9	Kit	2	WEAR RING	
10	Kit	1	PISTON SEAL	
11	Kit	1	O-RING	
12	Kit	2	WEAR RING	
13	Kit	1	O-RING	
14	Kit	1	BACK-UP RING	
15	Kit	1	ROD SEAL	
16	Kit	1	CANNED WIPER	
17	Kit	1	O-RING	
K1	1102019	1	SEAL KIT, (includes items 9 thru 17)	

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FIGURE 9-8. OUTRIGGER CYLINDER (Prior to SN 0160058596)



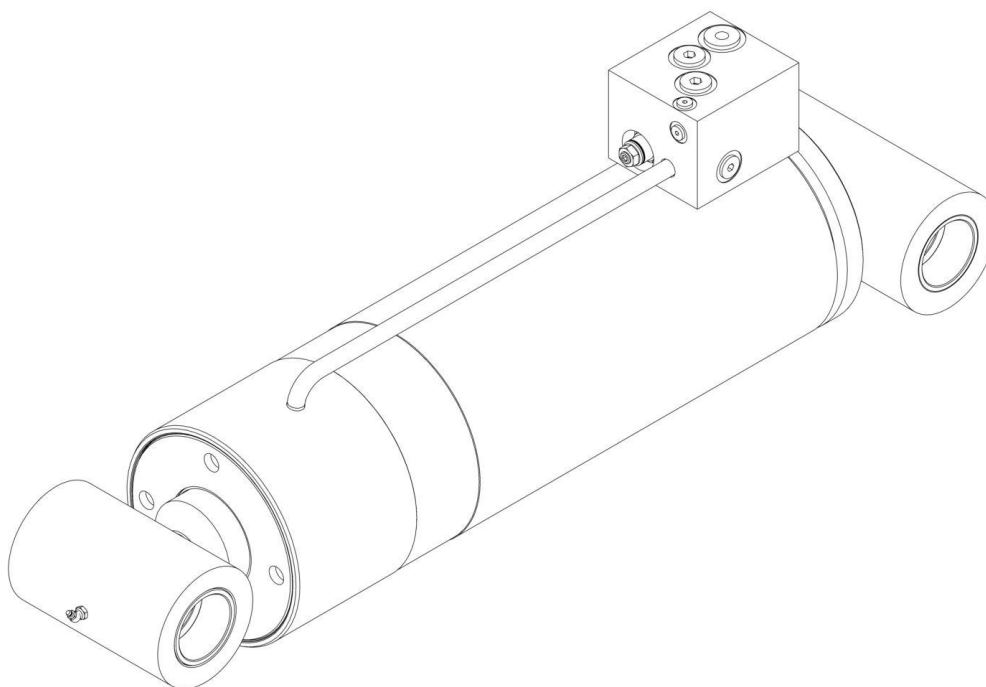
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-8. OUTRIGGER CYLINDER (Prior to SN 0160058596)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1102015	2	OUTRIGGER CYLINDER, (includes all items)	D
1	10116228	4	BUSHING	
2	7029175	1	BARREL WELDMENT	
3	7029176	1	SPECIAL NUT	
4	7029177	1	PISTON	
5	7029178	1	HEAD	
6	7029171	1	SELF TAPPING SET SCREW	
7	7029179	1	ROD WELDMENT	
8	Kit	2	WEAR RING	
9	Kit	1	PISTON SEAL	
10	Kit	1	O-RING	
11	Kit	2	WEAR RING	
12	Kit	1	O-RING	
13	Kit	1	BACK-UP RING	
14	Kit	1	BUFFER SEAL	
15	Kit	1	ROD SEAL	
16	Kit	1	WIPER	
17	10837450	2	COUNTERBALANCE VALVE CARTRIDGE	
17	2900770	1	SEAL KIT	
K1	1102016	1	SEAL KIT, (includes items 8 thru 16)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. OUTRIGGER CYLINDER (SN 0160058596 to Present)



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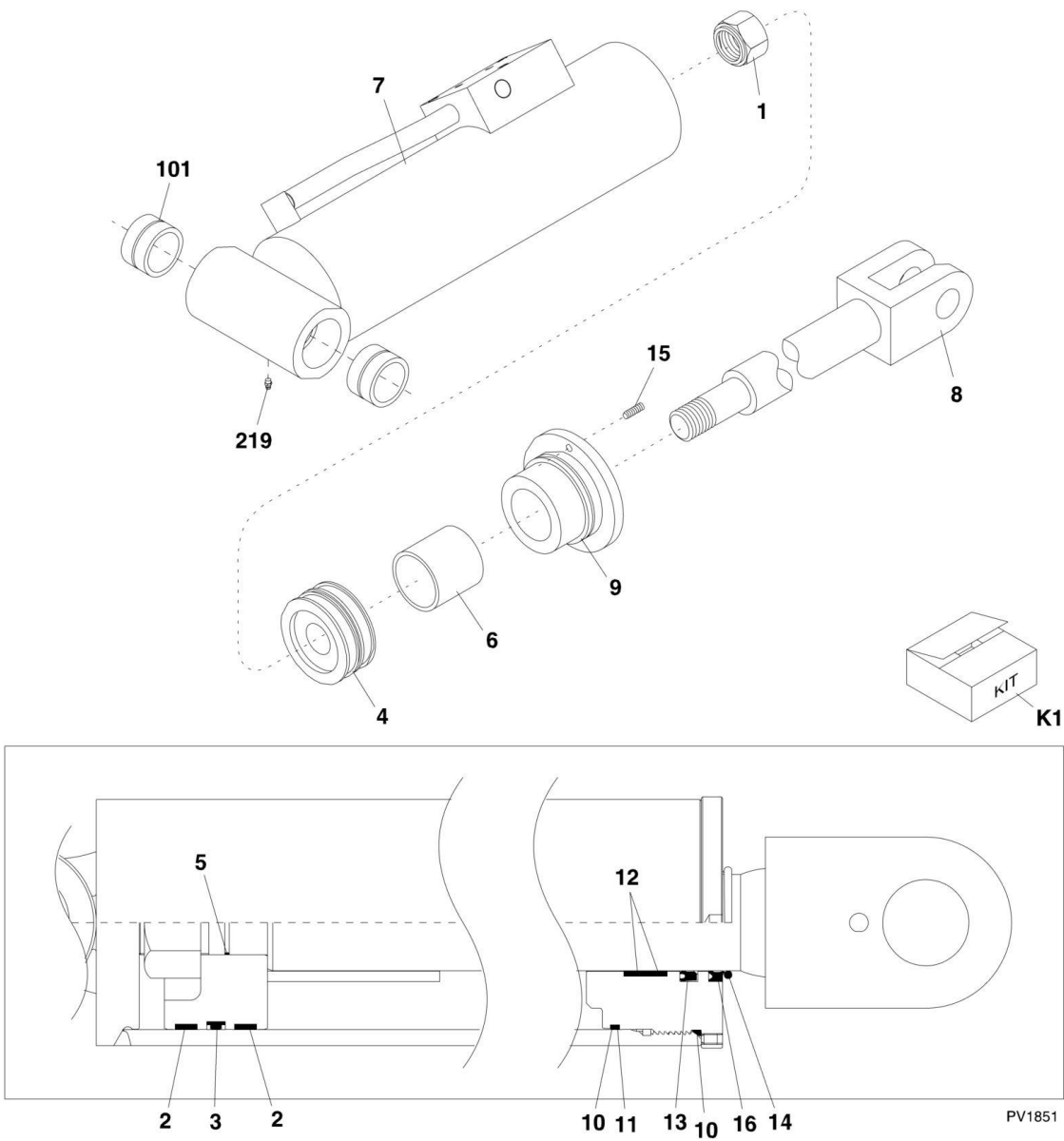
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. OUTRIGGER CYLINDER (SN 0160058596 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001140447	2	OUTRIGGER CYLINDER	B

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FIGURE 9-10. REAR STABILIZER CYLINDER (Including 1001140447)



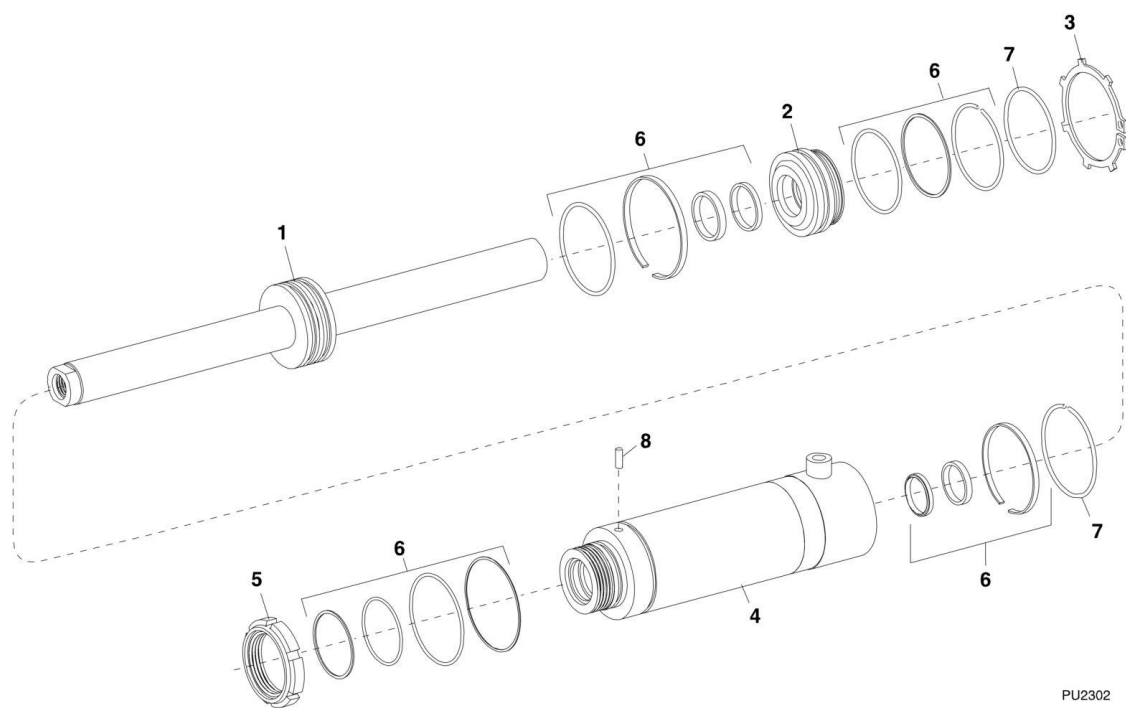
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-10. REAR STABILIZER CYLINDER (Including 1001140447)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684461	1	REAR STABILIZER CYLINDER, (includes items 1 thru 16)	C
1	8036825	1	HEX LOCKNUT, 1-1/2-12	
2	Kit	2	WEAR RING	
3	Kit	1	PISTON T-SEAL	
4	7029149	1	PISTON	
5	Kit	1	O-RING	
6	N.S.S.	1	TUBE	
7	7029162	1	BARREL WELDMENT	
8	70022612	1	ROD WELDMENT	
9	7029152	1	GUIDE	
10	Kit	2	O-RING	
11	Kit	1	BACK-UP RING	
12	Kit	2	WEAR RING	
13	Kit	1	Z-SEAL	
14	7029153	1	O-RING	
15	7017283	1	SET SCREW	
16	Kit	1	CANNED WIPER	
101	10116228	2	BUSHING	
219	10715367	1	GREASE FITTING	
K1	8036557	1	SEAL KIT, (includes items 2, 3, 5, 10 thru 13, 14 & 16)	

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FIGURE 9-11. STEERING CYLINDER



PU2302

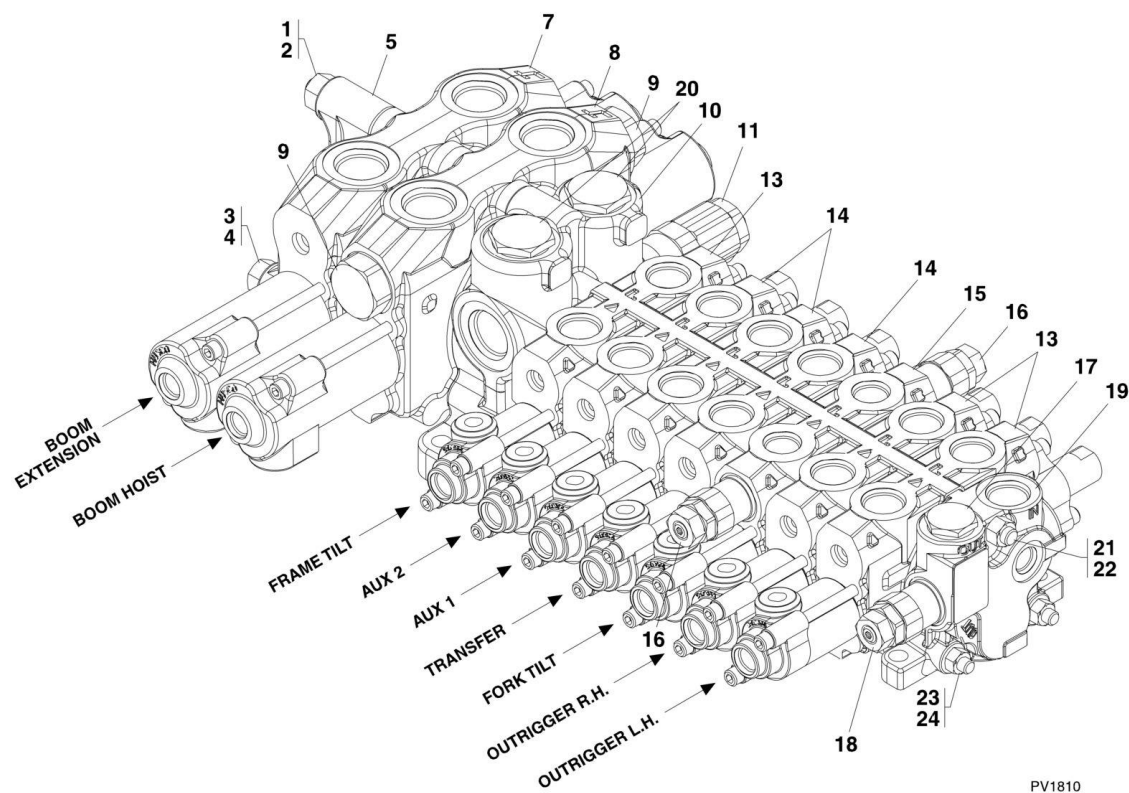
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-11. STEERING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1321149	NLA	STEERING CYLINDER, (Prior to Front Axle SN 958841 and Rear Axle SN 955235), (no longer available, use 70021617 for replacement), (includes items 1 thru 6)	
	70021617	1	STEERING CYLINDER, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present), (includes items 1 thru 8)	
1	N.S.S.	1	PISTON ROD, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)	
1	70021568	1	PISTON ROD, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
2	N.S.S.	1	GUIDE PIECE, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)	
2	70021569	1	GUIDE PIECE, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
3	N.S.S.	1	L-RING, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)	
3	70021571	1	L-RING, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
4	N.S.S.	1	CYLINDER TUBE	
5	8035998	1	SLOTTED NUT, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)	
5	70021570	1	SLOTTED NUT, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
6	8035981	1	SEAL KIT, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)	
6	70021495	1	SEAL KIT, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
7	70021726	2	RETAINING RING, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
8	70022610	1	SLOTTED PIN, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	

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FIGURE 9-12. HYDRAULIC CONTROL VALVE ASSEMBLY



PV1810

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FIGURE 9-12. HYDRAULIC CONTROL VALVE ASSEMBLY

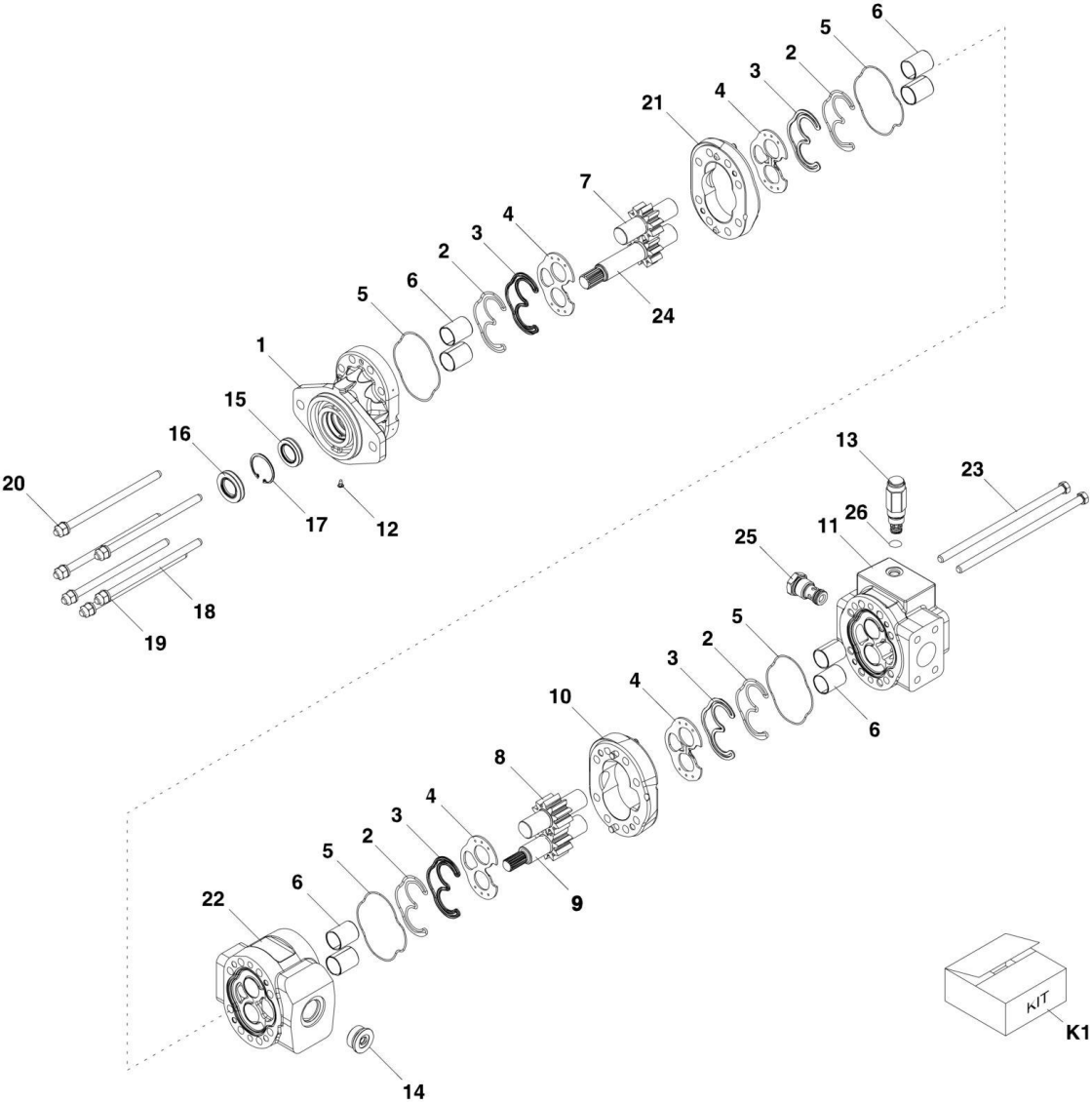
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10239053	NLA	8 SECTION MID-INLET VALVE ASSY, (Single Aux), (no longer available, use 1001104020 for replacement), (includes items 1 thru 11, 6 of 12, 13, 2 of item 14 & 15 thru 24)	B
	1001104020	1	8 SECTION MID-INLET VALVE ASSY, (Single Aux), (includes items 1 thru 11, 6 of 12, 13, 2 of item 14 & 15 thru 24)	A
	10239054	NLA	9 SECTION MID-INLET VALVE ASSY, (Dual Aux), (no longer available, use 1001104021 for replacement), (includes all items)	B
	1001104021	1	9 SECTION MID-INLET VALVE ASSY, (Dual Aux), (includes all items)	A
1	8035347	1	SPECIAL NUT	
2	70022614	1	TIE ROD	
3	8035381	2	SPECIAL NUT	
4	70022615	2	TIE ROD	
5	10837902	1	OUTLET SECTION	
6	8034697	3	O-RING, (located between Hoist and Extension valve sections), (not shown)	
7	70022616	1	BOOM EXTENSION VALVE SECTION ASSY	
7	70022617	2	SOCKET HD CAPSCREW	
7	70022618	1	SPOOL CAP	
7	8035362	1	SOCKET HD SHOULDER BOLT	
7	70022619	2	SPRING SEAT	
7	8035355	1	SPRING	
7	70022620	1	O-RING	
7	8903014	1	SPOOL CAP RETAINER	
7	10791781	2	O-RING	
7	70022621	1	SPOOL CAP	
7	70022622	2	SOCKET HD CAPSCREW	
7	10791783	1	SPRING	
7	10791784	1	POPPET	
8	70022623	1	BOOM HOIST VALVE SECTION ASSY	
8	70022617	2	SOCKET HD CAPSCREW	
8	70022618	1	SPOOL CAP	
8	8035362	1	SOCKET HD SHOULDER BOLT	
8	70022619	2	SPRING SEAT	
8	8035355	1	SPRING	
8	70022620	1	O-RING	
8	8903014	1	SPOOL CAP RETAINER	
8	10791781	2	O-RING	
8	70022621	1	SPOOL CAP	
8	70022622	2	SOCKET HD CAPSCREW	
8	10791783	1	SPRING	
8	10791784	1	POPPET	
9	10837953	2	SHUT-OFF PLUG	
10	70022624	1	MID-INLET SECTION	
11	70022625	1	RELIEF VALVE ASSY, (3100-3000psi)	
12	10837923	8	O-RING, (located between Frame Tilt/Outtrigger/Aux/Transfer/Fork Tilt valve sections), (not shown)	
13	10837904	3	FRAME TILT/OUTRIGGER VALVE SECTION ASSY	
13	8035359	6	SOCKET HD CAPSCREW	
13	8036286	3	SPOOL CAP	
13	10837964	3	SPOOL END	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
13	70022626	6	SPRING SEAT	
13	8035356	3	SPRING	
13	8035374	3	SPOOL CAP RETAINER, (includes back-up ring)	
13	70022627	3	SPOOL CAP	
13	8035373	3	SEAL PLATE	
13	8037088	6	SOCKET HD CAPSCREW	
13	10837937	3	POPPET	
13	10837927	3	SPRING	
14	10837905	3	AUX/TRANSFER VALVE SECTION ASSY	
14	8035359	6	SOCKET HD CAPSCREW	
14	8036286	3	SPOOL CAP	
14	10837964	3	SPOOL END	
14	70022626	6	SPRING SEAT	
14	8035356	3	SPRING	
14	8035374	3	SPOOL CAP RETAINER, (includes back-up ring)	
14	70022627	3	SPOOL CAP	
14	8035373	3	SEAL PLATE	
14	8037088	6	SOCKET HD CAPSCREW	
14	10837937	3	POPPET	
14	10837927	3	SPRING	
15	10837906	1	FORK TILT VALVE SECTION ASSY	
15	8035359	2	SOCKET HD CAPSCREW	
15	8036286	1	SPOOL CAP	
15	10837964	1	SPOOL END	
15	70022626	2	SPRING SEAT	
15	8035356	1	SPRING	
15	8035374	1	SPOOL CAP RETAINER, (includes back-up ring)	
15	70022627	1	SPOOL CAP	
15	8035373	1	SEAL PLATE	
15	8037088	2	SOCKET HD CAPSCREW	
15	10837937	1	POPPET	
15	10837927	1	SPRING	
16	8033412	2	RELIEF VALVE ASSY, (2900-2800psi)	
17	70022628	1	PLUG	
18	70022629	1	RELIEF VALVE ASSY, (3225-3125psi)	
19	10837900	1	INLET SECTION	
20	70022630	2	PLUG	
21	70022631	1	TIE ROD, (Single Aux)	
21	7029205	1	TIE ROD, (Dual Aux)	
22	8035346	1	SPECIAL NUT	
23	70022632	2	TIE ROD, (Single Aux)	
23	7029206	2	TIE ROD, (Dual Aux)	
24	8035348	2	SPECIAL NUT	

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FIGURE 9-13. TANDEM PUMP



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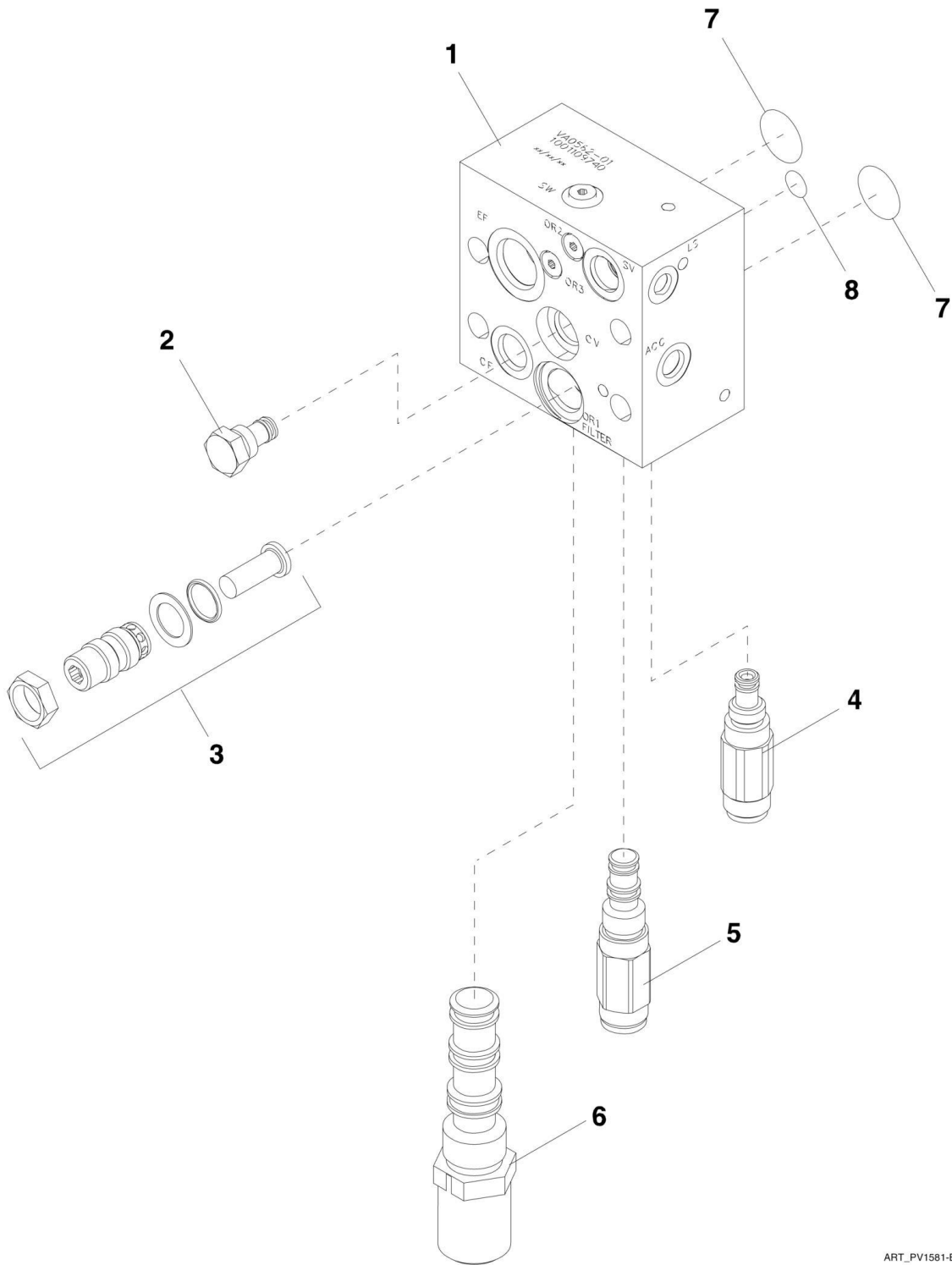
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. TANDEM PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10439693	1	TANDEM PUMP, (includes all items)	E
1	7029185	1	FRONT COVER	
2	Kit	4	E-RING SEAL	
3	Kit	4	E-RING RETAINER	
4	7029186	4	WEAR PLATE	
5	Kit	4	O-RING	
6	7029187	8	BUSHING	
7	7029188	1	DRIVEN GEAR	
8	7029189	1	DRIVEN GEAR, 13 GPM	
9	7029190	1	REAR DRIVE GEAR, 13 GPM	
10	7029191	1	CENTER SECTION	
11	7029192	1	REAR COVER	
12	Kit	1	PLUG	
13	7029202	1	RELIEF VALVE CARTRIDGE	
14	7029204	1	PLUG	
15	Kit	1	INNER SEAL SHAFT	
16	Kit	1	OUTER SEAL SHAFT	
17	7029193	1	SNAP RING	
18	7029194	6	STUD, 7/16-14X8-1/4	
19	7029195	6	LOCKWASHER, 7/16	
20	7029196	6	NUT, 7/16-20, GR8	
21	7029197	1	CENTER SECTION	
22	7029198	1	PORT SECTION	
23	7029199	2	HEX HD CAPSCREW, 7/16-14X9-3/4	
24	7029200	1	DRIVE GEAR	
25	7029201	1	CHECK VALVE CARTRIDGE	
26	7029203	1	ORIFICE DISC	
K1	8036481	1	SEAL KIT, (includes items 2, 3, 5, 12, 15 & 16)	

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FIGURE 9-14. ACCUMULATOR CHARGE VALVE



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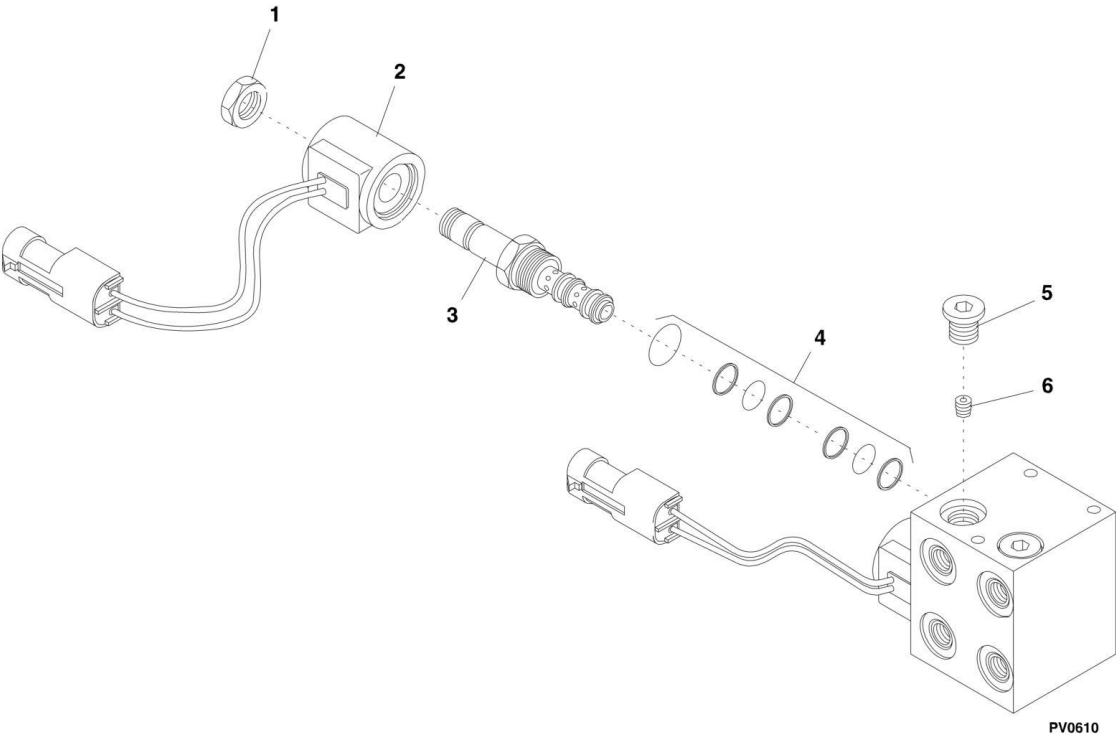
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. ACCUMULATOR CHARGE VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1102027	1	ACCUMULATOR CHARGE VALVE, (includes items 1 thru 6) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	B
	1001109740	1	ACCUMULATOR CHARGE VALVE, (includes items 1 thru 6 and 9) (SN 0160051140 to Present, Including 0160050734 and 0160050735)	B
1	N.S.S.	1	VALVE BODY	
2	7022391	1	CHECK VALVE	
2	7012998	1	SEAL KIT	
3	8036564	1	FILTER ASSY	
4	8036566	1	VALVE CARTRIDGE, (UP) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	
4	70027321	1	VALVE CARTRIDGE, (UP) (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
5	8036455	1	RELIEF CARTRIDGE, (RV) (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)	
4	7012518	1	SEAL KIT	
5	70027322	1	RELIEF CARTRIDGE, (RV) (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
5	7012998	1	SEAL KIT	
6	8036460	1	COMPENSATOR, (EC)	
6	8036493	1	SEAL KIT	
7	8630008	2	O-RING	
8	8640017	1	O-RING	
9	10837580	1	LOAD SHUFFLE VALVE (SN 0160051140 to Present, Including 0160050734 and 0160050735)	
9	7010543	1	SEAL KIT (SN 0160051140 to Present, Including 0160050734 and 0160050735)	

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FIGURE 9-15. 6-PORT CIRCUIT SELECTOR VALVE ASSEMBLY



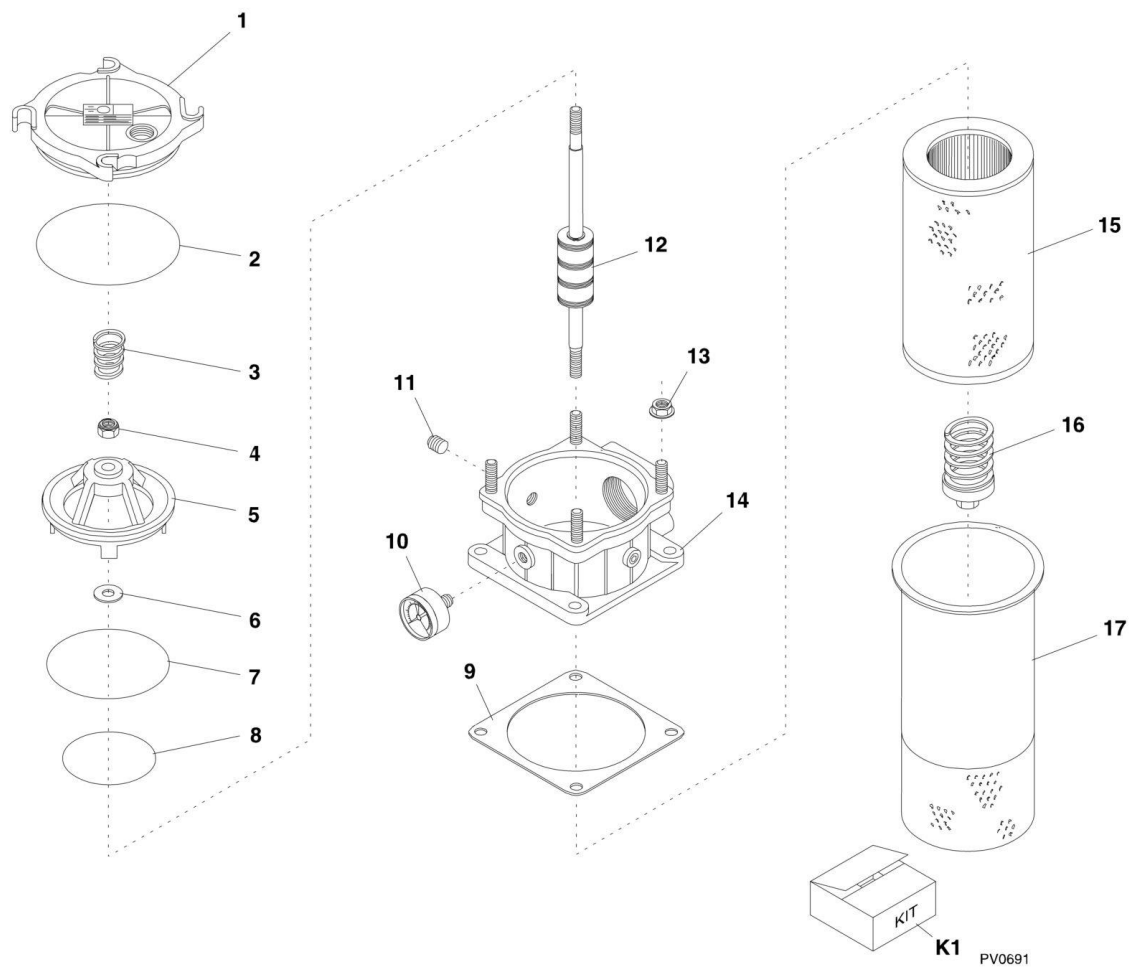
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. 6-PORT CIRCUIT SELECTOR VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10339076	1	6-PORT CIRCUIT SELECTOR VALVE ASSY, (includes all items)	AA
1	10740662	1	NUT	
2	10138329	1	COIL	
3	10837352	1	SOLENOID VALVE	
4	10837355	1	SEAL KIT	
5	10727933	2	HOLLOW HEX O-RING PLUG	
6	10837571	2	ORIFICE PLUG	

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FIGURE 9-16. HYDRAULIC RETURN LINE FILTER ASSEMBLY



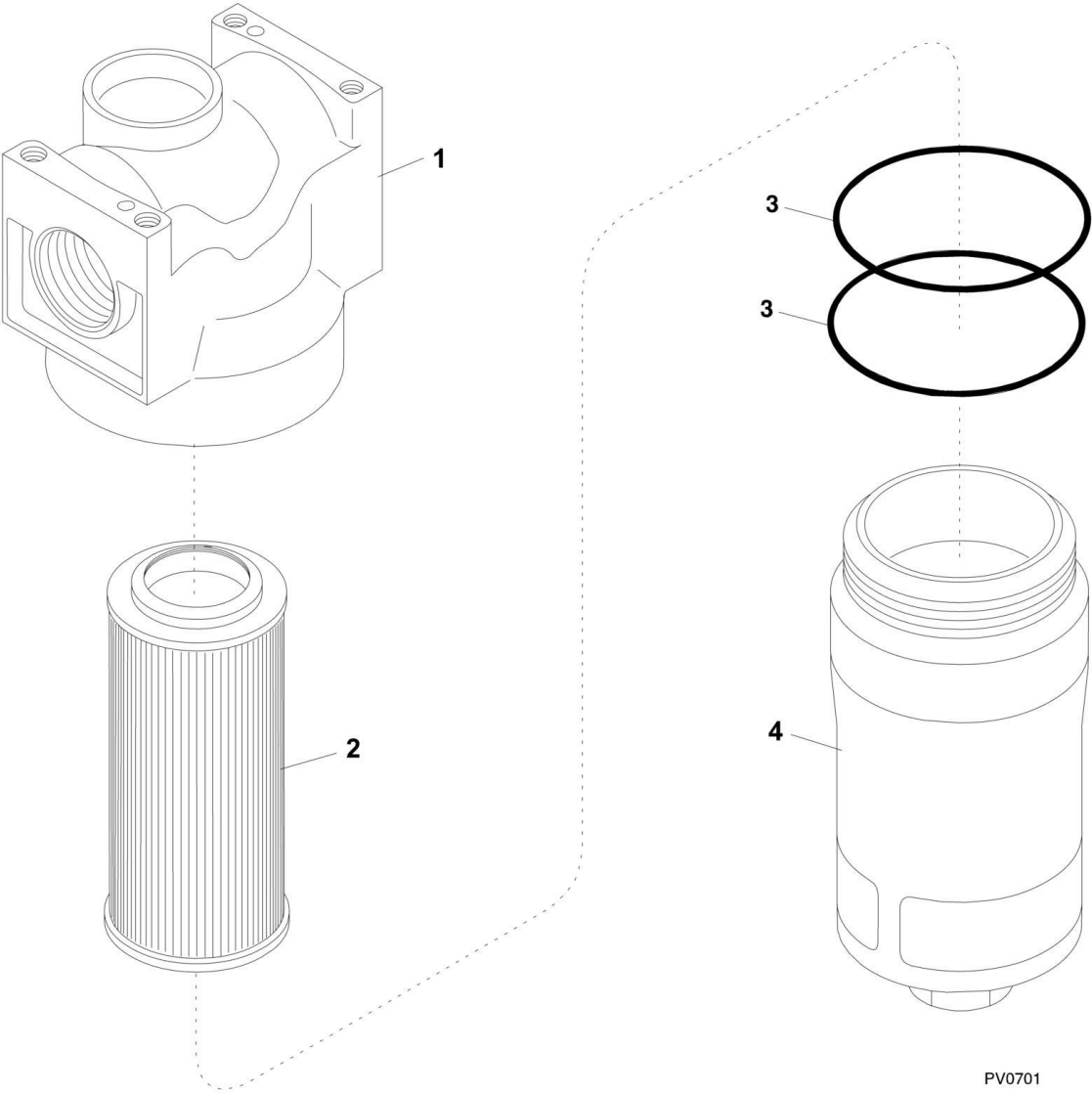
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. HYDRAULIC RETURN LINE FILTER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10265514	1	RETURN FILTER ASSY, (includes all items)	C
1	N.S.S.	1	COVER	
2	10837117	1	O-RING	
3	N.S.S.	1	SPRING	
4	10704773	1	HEX LOCKNUT, M8-1.25	
5	N.S.S.	1	TRESTLE	
6	10704630	1	FLAT WASHER, M8	
7	10837118	1	O-RING	
8	1100778	1	O-RING	
9	Kit	1	RUBBER GASKET	
10	10724981	1	INDICATOR GAUGE	
11	2200221	2	HEX SOCKET PLUG	
12	N.S.S.	1	TIE ROD	
13	N.S.S.	4	FLANGE HEX NUT, M8-1.25	
14	N.S.S.	1	HEAD	
15	10727810	1	FILTER ELEMENT	
16	N.S.S.	1	BYPASS SPRING	
17	N.S.S.	1	DIFFUSER	
K1	10837120	1	GASKET AND O-RING KIT, (includes items 2, 7 & 9)	

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FIGURE 9-17. PRESSURE FILTER ASSEMBLY



PV0701

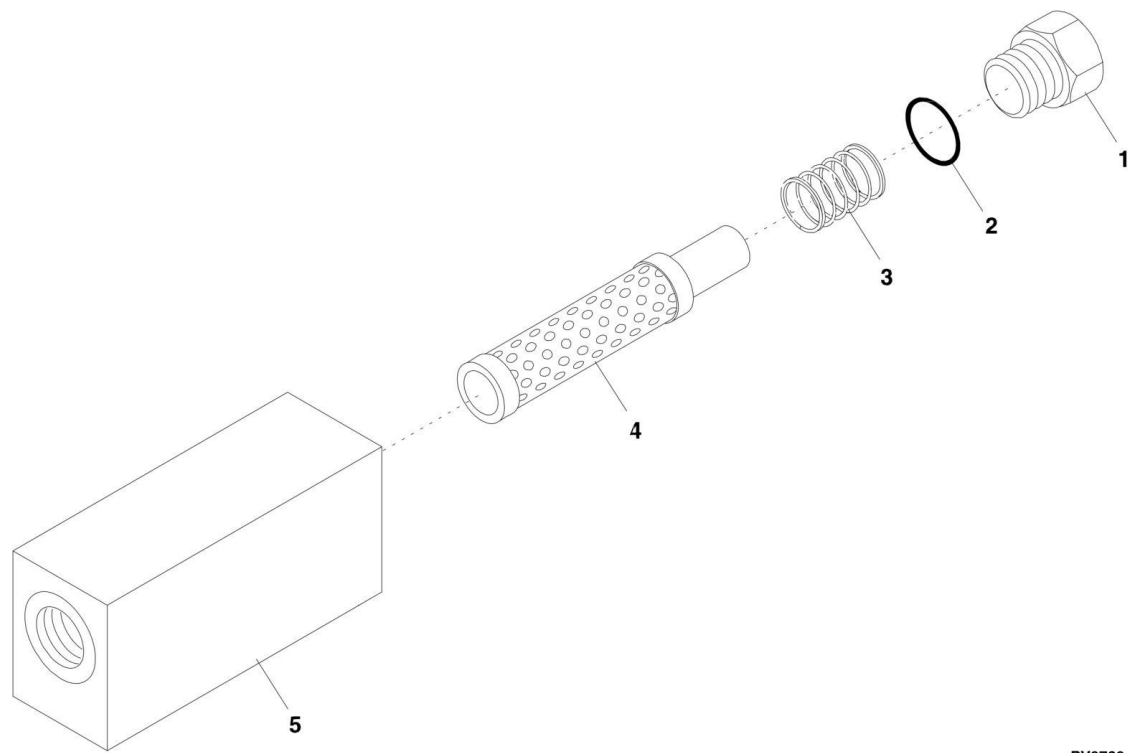
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FIGURE 9-17. PRESSURE FILTER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10266450	1	PRESSURE FILTER ASSY, (includes all items)	A
1	1100341	1	FILTER HEAD, 12 PITCH THREAD, NO BYPASS	
2	10866416	1	FILTER	
3	1100343	2	BOWL SEAL	
4	N.S.S.	1	BOWL, 12 PITCH THREAD	

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FIGURE 9-18. INLINE FILTER ASSEMBLY



PV0760

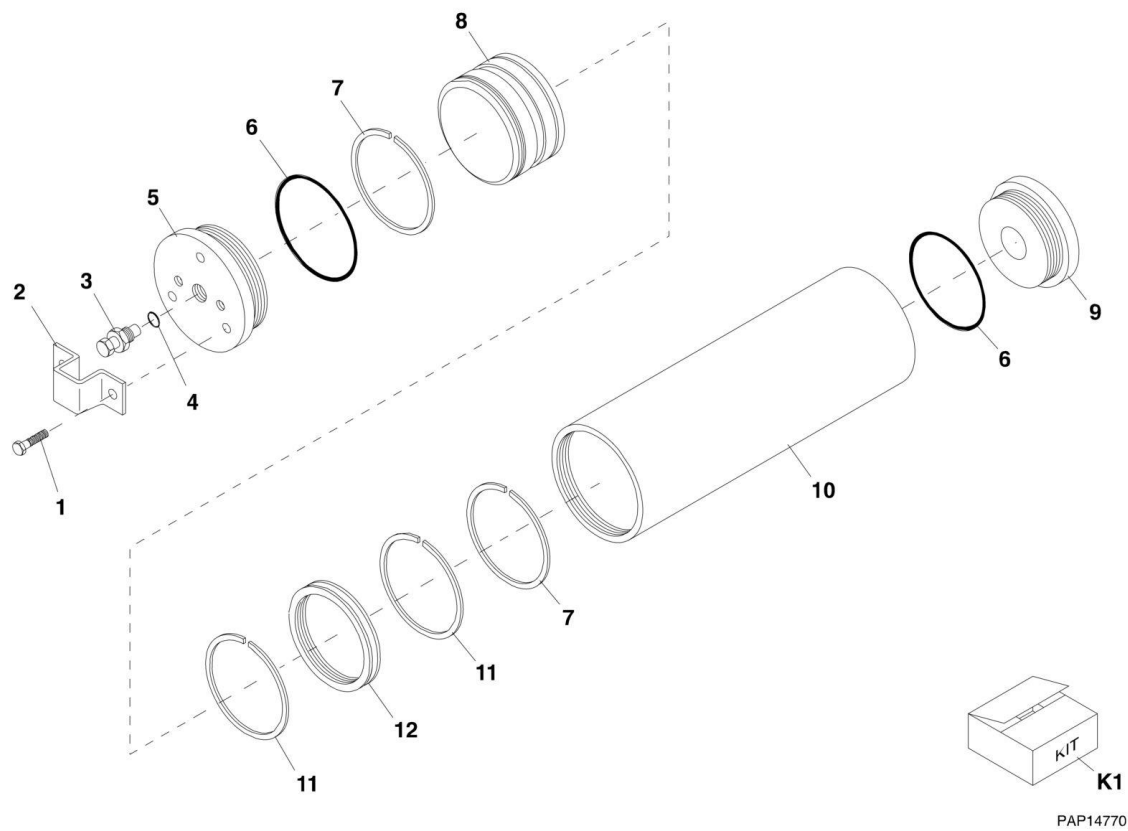
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-18. INLINE FILTER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1100963	1	INLINE FILTER ASSY, (includes all items)	AA
1	1100988	1	SPRING GUIDE HEX PLUG	
2	10728957	1	O-RING, #12	
3	1100989	1	BYPASS SPRING, 50 P.S.I.	
4	1100987	1	FILTER ELEMENT	
5	N.S.S.	1	FILTER BODY	

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FIGURE 9-19. ACCUMULATOR ASSEMBLY



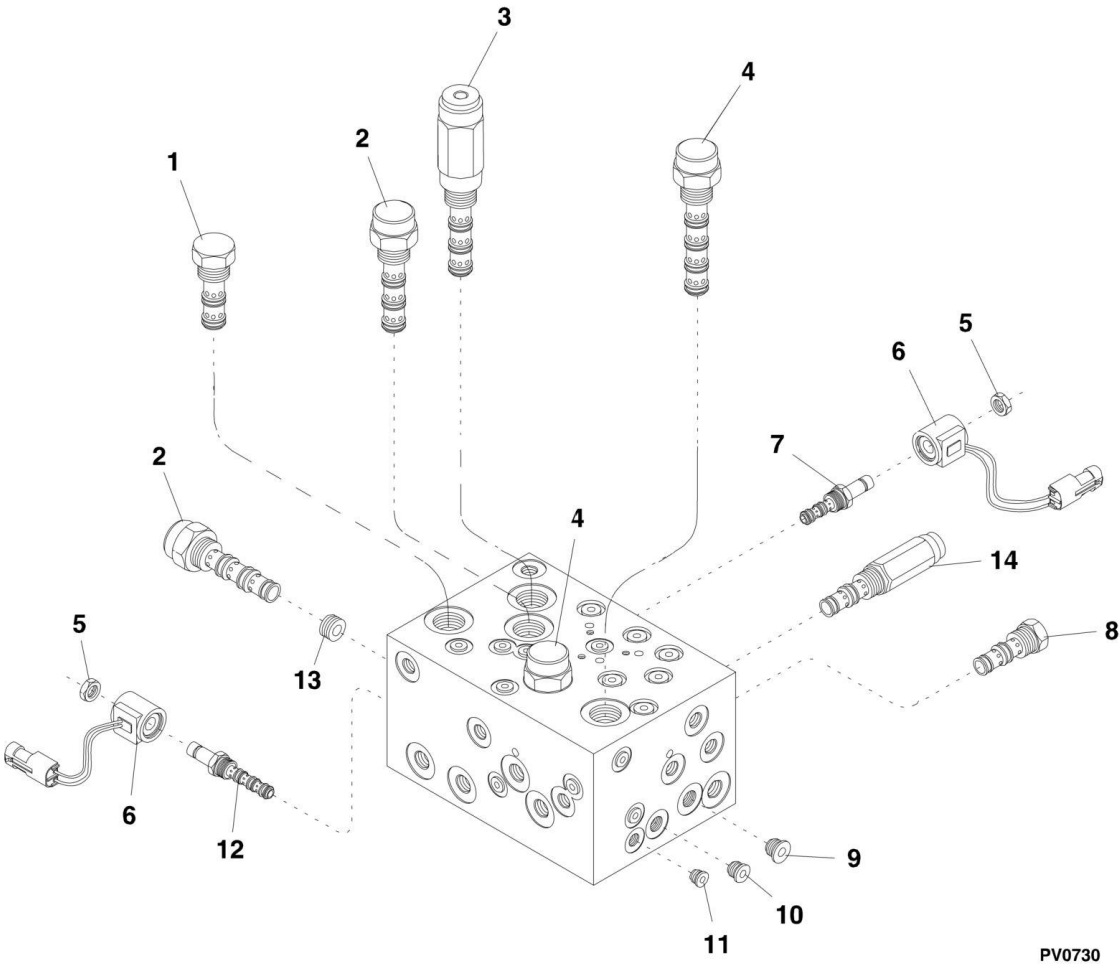
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-19. ACCUMULATOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10731556	1	ACCUMULATOR ASSY, (includes all items)	A
1	10700229	2	HEX HD CAPSCREW, 3/8-16X3/4, GR8	
2	10791946	1	VALVE GUARD	
3	10791947	1	GAS VALVE	
4	Kit	1	O-RING	
5	N.S.S.	1	GAS END CAP	
6	Kit	2	O-RING	
7	Kit	2	TEFLON RING	
8	10791952	1	PISTON	
9	N.S.S.	1	END CAP	
10	N.S.S.	1	ACCUMULATOR BODY	
11	Kit	2	BACK-UP WASHER	
12	Kit	1	O-RING	
K1	10729122	1	ACCUMULATOR SEAL KIT, (includes items 4, 6, 7, 11 & 12)	

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FIGURE 9-20. REAR AXLE STABILIZER CONTROL VALVE, (UNDER CAB)



PV0730

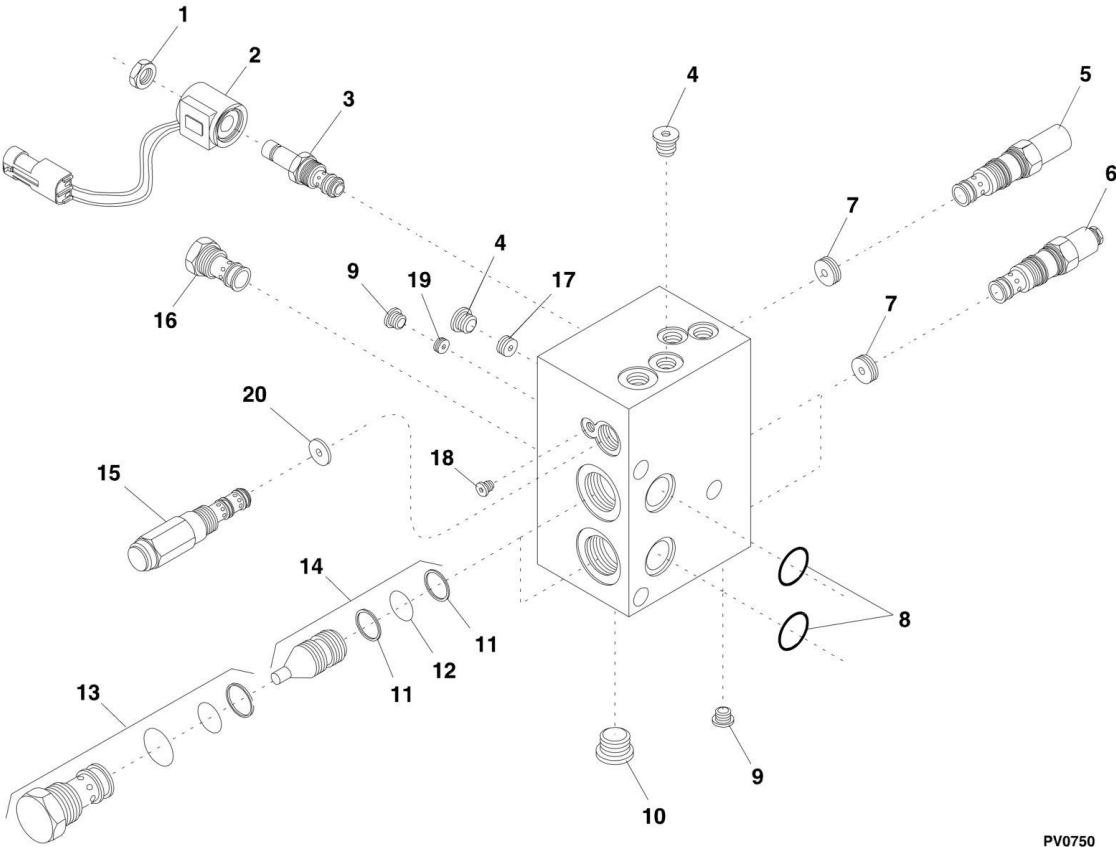
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FIGURE 9-20. REAR AXLE STABILIZER CONTROL VALVE, (UNDER CAB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1102050	1	REAR AXLE STABILIZER CONTROL VALVE, (includes all items)	AA
1	10867163	1	CARTRIDGE VALVE, (PC3)	
1	1100034	1	SEAL KIT	
2	10867164	2	PILOTED CARTRIDGE VALVE, (3-way), (PD1 & PD4)	
2	10837005	2	SEAL KIT	
3	10837575	1	SEQUENCE VALVE, (PS1)	
3	10837011	1	SEAL KIT	
4	10867162	2	PILOTED CARTRIDGE VALVE, (2-way), (PD2 & PD3)	
4	1100035	2	SEAL KIT	
5	10740662	2	NUT	
6	10138329	2	COIL	
7	10837352	1	SOLENOID VALVE, (2 position 3-way), (SV2)	
7	10837355	1	SEAL KIT	
8	10837580	1	SHUTTLE CARTRIDGE VALVE, (S1)	
8	10837014	1	SEAL KIT	
9	2220885	1	HEX PLUG, #6	
10	10727933	3	HEX PLUG, #4	
11	80384373	34	HEX PLUG, #2	
12	10867165	1	SOLENOID VALVE, (2 position 4-way), (SV1)	
12	10868902	1	SEAL KIT	
13	10837010	1	ORIFICE KIT, .040, (PD1)	
14	1102051	1	SEQUENCE VALVE, (PS2)	
14	8036572	1	SEAL KIT	

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FIGURE 9-21. REAR AXLE STABILIZER VALVE, (ON REAR AXLE)



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FIGURE 9-21. REAR AXLE STABILIZER VALVE, (ON REAR AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10366194	1	REAR AXLE STABILIZER VALVE, (includes all items)	D
1	7022390	1	NUT	
2	10138329	1	COIL	
3	10867167	1	SOLENOID VALVE, (SV3)	
3	10868086	1	SEAL KIT	
4	2220885	2	HOLLOW HEX O-RING PLUG, #6	
5	10867168	1	COUNTER BALANCE VALVE CARTRIDGE, (CB)	
5	2900770	1	SEAL KIT	
6	10867169	2	PO CHECK VALVE, (PC1 & PC2)	
6	2900770	2	SEAL KIT	
7	10867170	3	ORIFICE PLUG, 0.040	
8	10710547	2	O-RING	
9	2220883	3	HOLLOW HEX O-RING PLUG, #4	
10	2220867	1	HOLLOW HEX O-RING PLUG, #10	
11	N.S.S.	2	BACK-UP RING	
12	N.S.S.	1	O-RING	
13	10837354	2	CHECK VALVE CARTRIDGE, (CV3 & CV4)	
14	10837360	2	PISTON ASSY, (includes items 11 & 12), (CV3 & CV4)	
14	7029791	1	SEAL KIT, (includes items 11 & 12)	
15	10837353	1	PRESSURE REDUCING VALVE CARTRIDGE, (PR)	
15	7021632	1	SEAL KIT	
16	10867166	2	CHECK VALVE, (CV1 & CV2)	
16	10868086	2	SEAL KIT	
17	10837361	1	ORIFICE PLUG, 0.030	
18	2220881	1	HOLLOW HEX O-RING PLUG, #2	
19	10867171	1	ORIFICE PLUG, 0.080	
20	1102025	1	ORIFICE DISC, 0.130	

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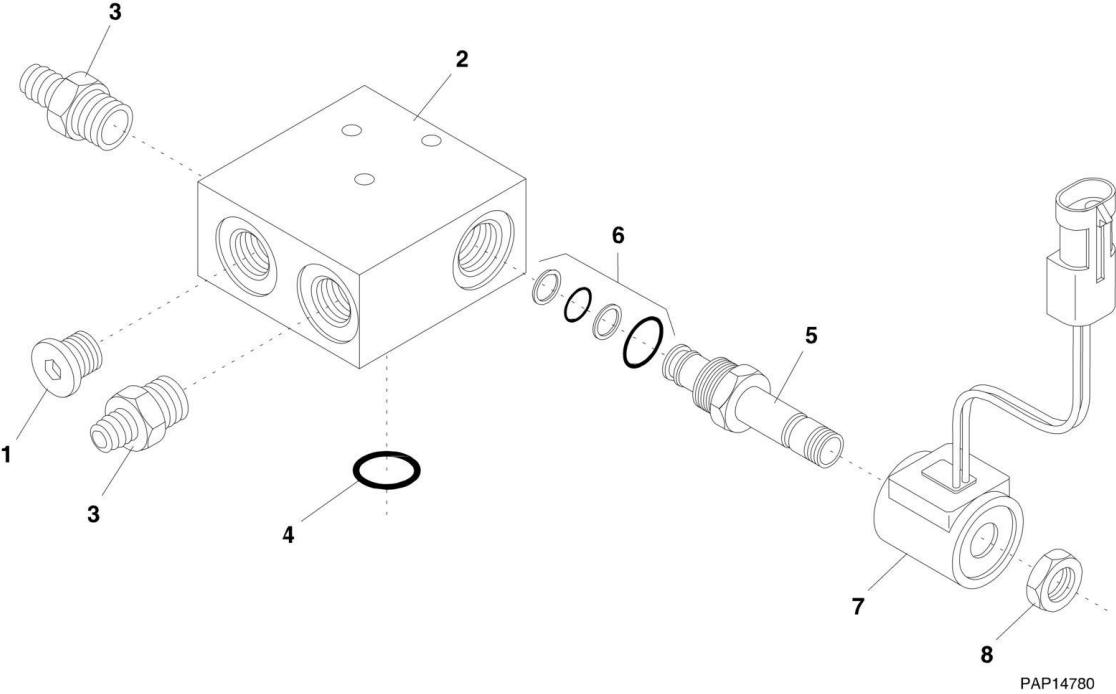
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FIGURE 9-22. FUEL/HYDRAULIC TANK ASSY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10439785	1	FUEL/HYDRAULIC TANK ASSY, (includes items 1 thru 25)	K
1	10438944	1	FUEL/HYDRAULIC TANK, (includes items 101 thru 105)	AB
2	10238912	1	HYDRAULIC OIL STRAINER, (includes o-ring)	AB
2	1101888	1	O-RING	
4	10139022	1	BREATHER FILTER	
5	10700204	4	HEX HD CAPSCREW, 3/8-16X1, (torque to 7.2 lb-ft)	
6	10701310	4	LOCKWASHER, 3/8	
7		Ref	HYDRAULIC RETURN LINE FILTER ASSY, (See HYDRAULIC RETURN LINE FILTER ASSEMBLY for Breakdown)	
9	2220518	1	HEX CAP	
10	2220451	1	CONNECTOR, (includes o-ring)	
11	2220385	1	SWIVEL TEE	
12	10723848	1	CHECK VALVE	
13	10728819	1	CONNECTOR, (includes o-ring)	
14		Ref	PRESSURE GAUGE, (See HYDRAULIC RETURN LINE FILTER ASSEMBLY for Breakdown)	
15	10267141	1	TANK SUPPORT BRACKET	
16	10236181	2	TANK STRAP	
17	10701312	4	LOCKWASHER, 1/2	
18	10701510	4	HEX NUT, 1/2-13	
20	10139619	1	HYDRAULIC BREATHER DECAL	
21	10120988	1	HYDRAULIC OIL ONLY DECAL	
22	10120989	1	DIESEL FUEL ONLY DECAL	
23	10167139	2	FUEL/HYDRAULIC TANK BELTING	
24	10716673	1	STRAIGHT FITTING (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)	
24	2220767	1	STRAIGHT FITTING (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
25	10728873	1	ADAPTER, 90	
101	10727809	1	SIGHT GAUGE	
102	10729317	1	FUEL SENDER	
103	10712182	1	FUEL CAP	
104	10730418	1	WITHDRAWAL TUBE	
105	10715446	2	HEX PLUG, (includes o-ring)	

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FIGURE 9-23. BOOM EXTEND LOCKOUT VALVE ASSEMBLY



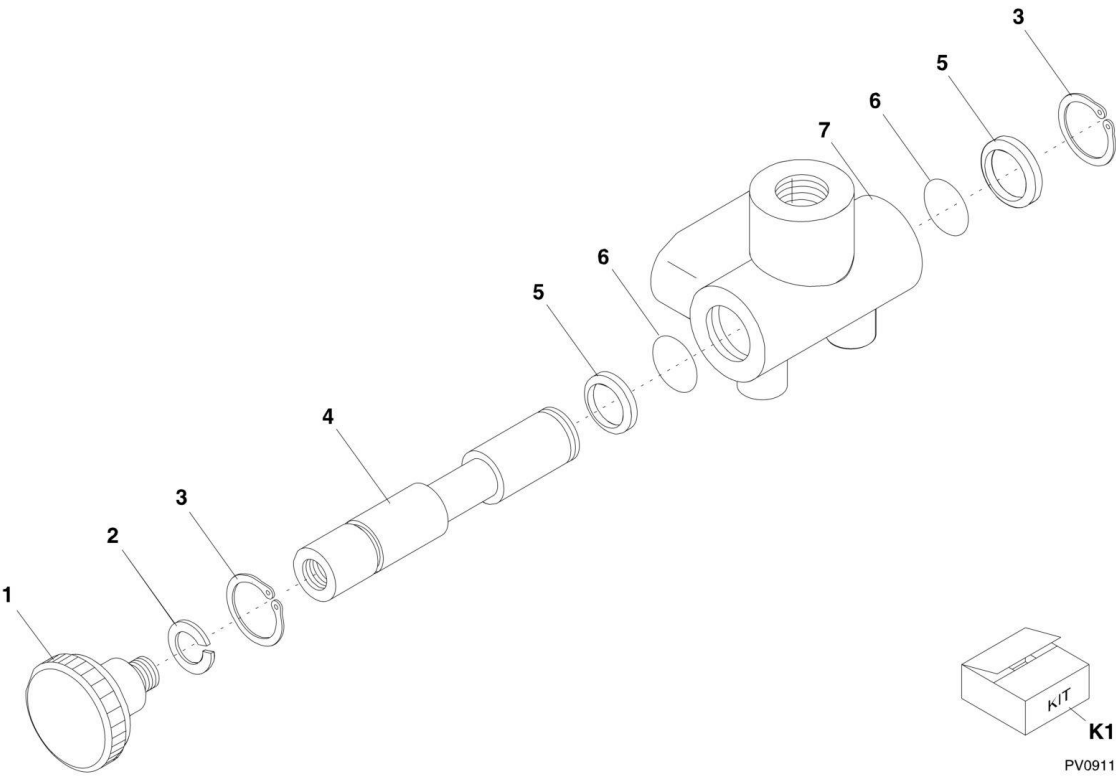
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FIGURE 9-23. BOOM EXTEND LOCKOUT VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10139949	1	BOOM EXTEND LOCKOUT VALVE ASSY, (includes all items)	AA
1	10727936	1	HOLLOW HEX O-RING PLUG	
2		Ref	BODY	
3	10719414	2	CHECK VALVE	
4	10837684	1	O-RING	
5	70002955	1	SOLENOID VALVE	
6	10837246	1	SEAL KIT	
7	10138329	1	COIL	
8	10740662	1	NUT	

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FIGURE 9-24. PARK BRAKE VALVE ASSEMBLY



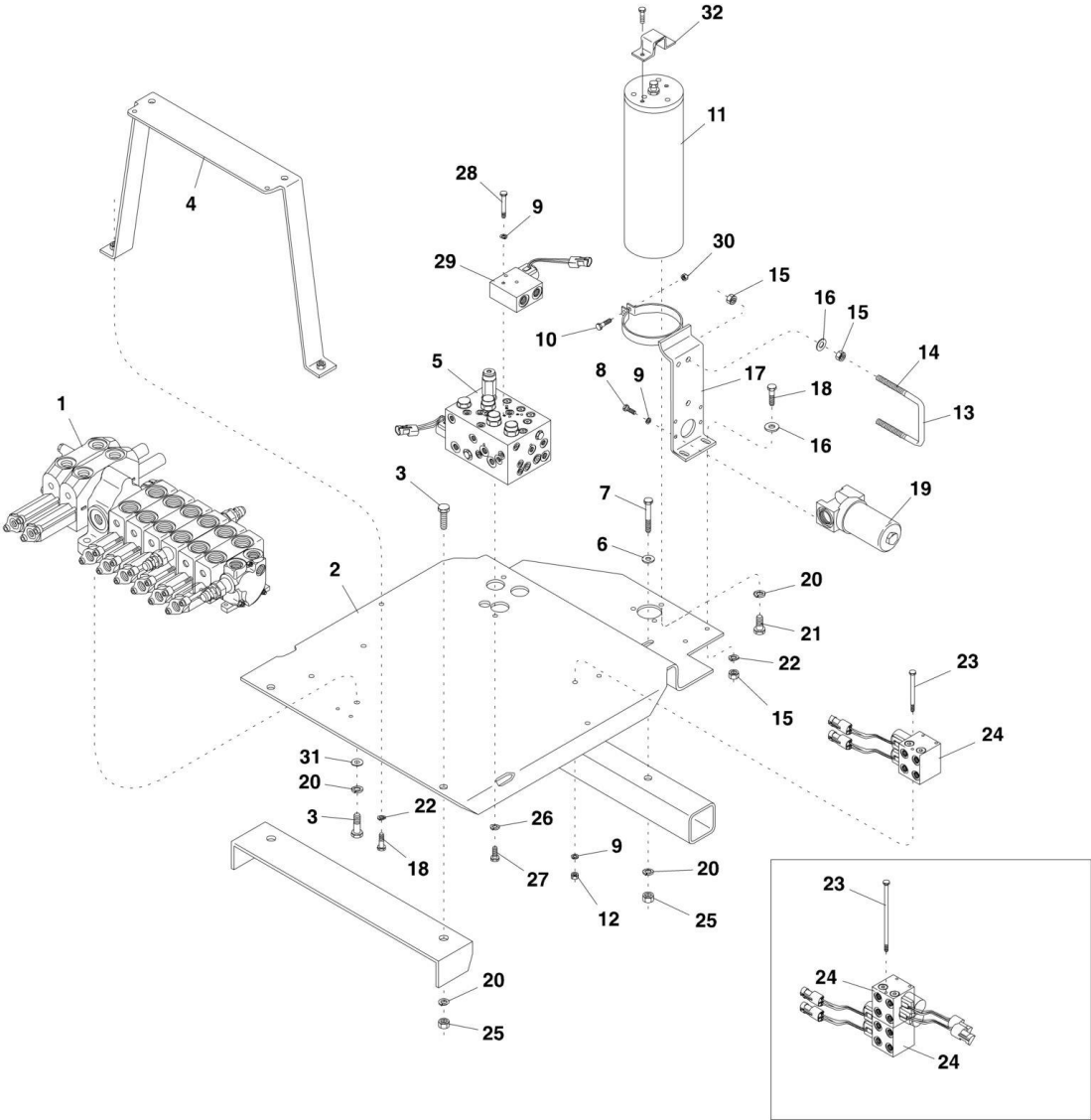
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-24. PARK BRAKE VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10740135	1	PARK BRAKE VALVE ASSY, (includes all items)	
1	10791764	1	CONTROL KNOB	
2	10701310	1	LOCKWASHER, 3/8	
3	10727980	2	SNAP RING	
4	N.S.S.	1	VALVE SPOOL	
5	10791765	2	BACK-UP RING, (teflon)	
6	Kit	2	O-RING	
7		Ref	VALVE HOUSING	
K1	10740467	1	SEAL KIT, (includes items 3, 5 & 6)	

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FIGURE 9-25. VALVE PLATE COMPONENTS ASSEMBLY



PAP14790

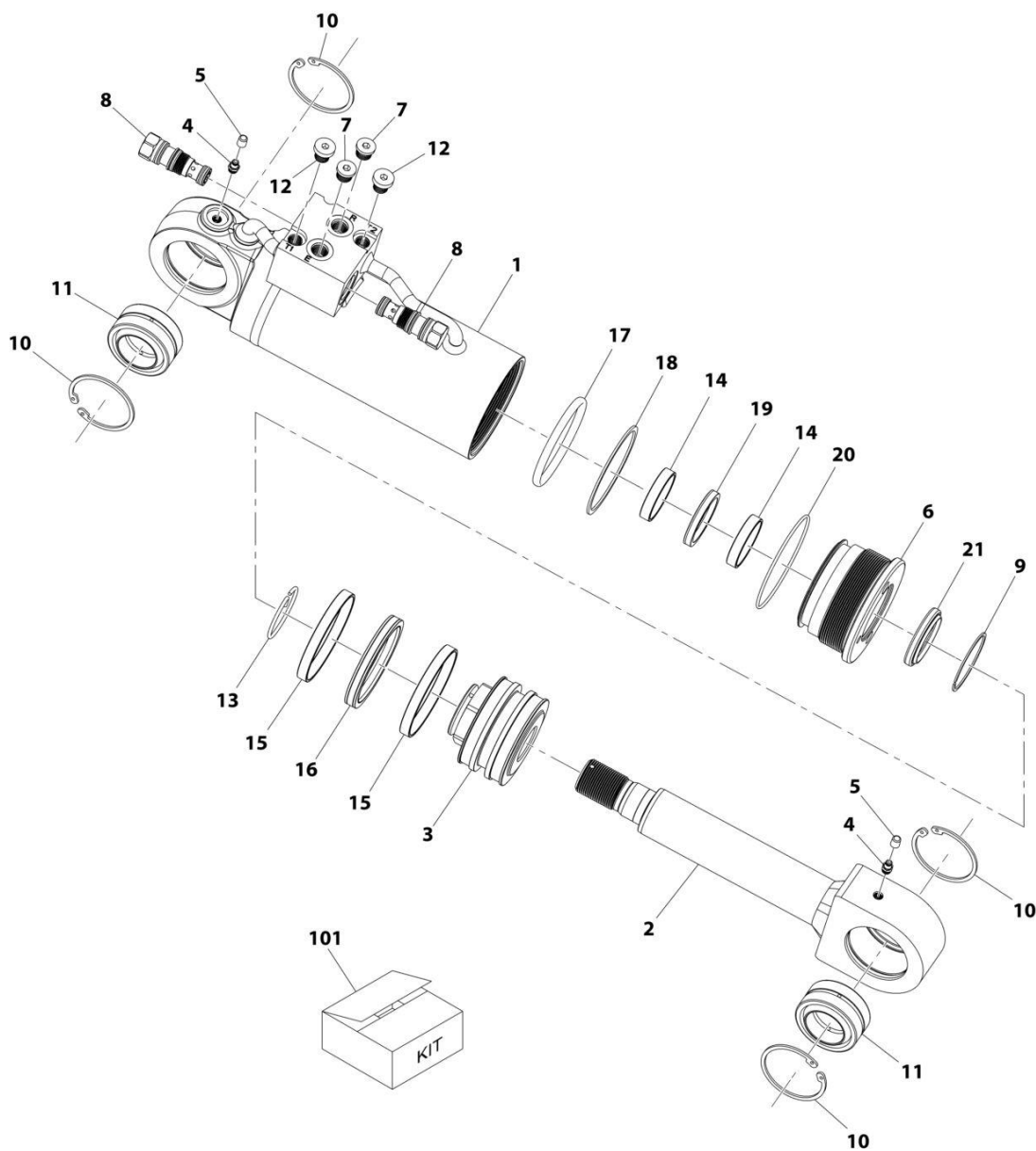
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-25. VALVE PLATE COMPONENTS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	8 SECTION HYDRAULIC CONTROL VALVE ASSY, (Single Aux), (See HYDRAULIC CONTROL VALVE ASSEMBLY for Breakdown)	
1		Ref	9 SECTION HYDRAULIC CONTROL VALVE ASSY, (Dual Aux), (See HYDRAULIC CONTROL VALVE ASSEMBLY for Breakdown)	
2	10438545	1	VALVE PLATE	
3	10700403	5	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (torque to 52-58 lb-ft)	
4	10238557	1	FRONT HOSE TRAY SUPPORT BRACKET	
5		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See REAR AXLE STABILIZER CONTROL VALVE, (UNDER CAB) for Breakdown)	
6	10701279	1	FLAT WASHER, 1/2	
7	10700411	1	HEX HD CAPSCREW, 1/2-13X3-1/4, GR5	
8	10700001	4	HEX HD CAPSCREW, 1/4-20X1/2, GR5	
9	10701308	9	LOCKWASHER, 1/4	
10	10700006	1	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5	
11		Ref	ACCUMULATOR, (See ACCUMULATOR ASSEMBLY for Breakdown)	
12	10701506	2	HEX NUT, 1/4-20	
13	10720902	AR	LOOM, 3/8x1	
14	10139360	1	HOSE GUIDE, (includes 1 each items 15 & 16)	
15	10701508	4	HEX NUT, 3/8-16	
16	10701404	2	FLAT WASHER, 3/8	
17	10238549	1	ACCUMULATOR AND PRESSURE FILTER MOUNTING BRACKET	
18	10700204	4	HEX HD CAPSCREW, 3/8-16X1, GR5	
19		Ref	PRESSURE FILTER, (See PRESSURE FILTER ASSEMBLY for Breakdown)	
20	10701312	9	LOCKWASHER, 1/2	
21	10700452	3	HEX HD CAPSCREW, 1/2-20X1, GR5	
22	10701310	4	LOCKWASHER, 3/8	
23	10700015	2	HEX HD CAPSCREW, 1/4-20X3-1/2, GR5, (Single Aux)	
23	10700023	2	HEX HD CAPSCREW, 1/4-20X7, GR5, (Dual Aux)	
24		Ref	CIRCUIT SELECTOR VALVE, (See 6-PORT CIRCUIT SELECTOR VALVE ASSEMBLY for Breakdown)	
25	10701510	3	HEX NUT, 1/2-13	
26	10701309	2	LOCKWASHER, 5/16	
27	10700103	2	HEX HD CAPSCREW, 5/16-18X7/8, GR5	
28	10700009	3	HEX HD CAPSCREW, 1/4-20X2, GR5	
29		Ref	BOOM EXTEND LOCKOUT VALVE, (See BOOM EXTEND LOCKOUT VALVE ASSEMBLY for Breakdown)	
30	10705000	1	HEX LOCKNUT, 1/4-20	
31	10701406	3	FLAT WASHER, 1/2	
32	10717593	2	HOSE CLAMP	

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FIGURE 9-26. SIDE TILT CARRIAGE CYLINDER



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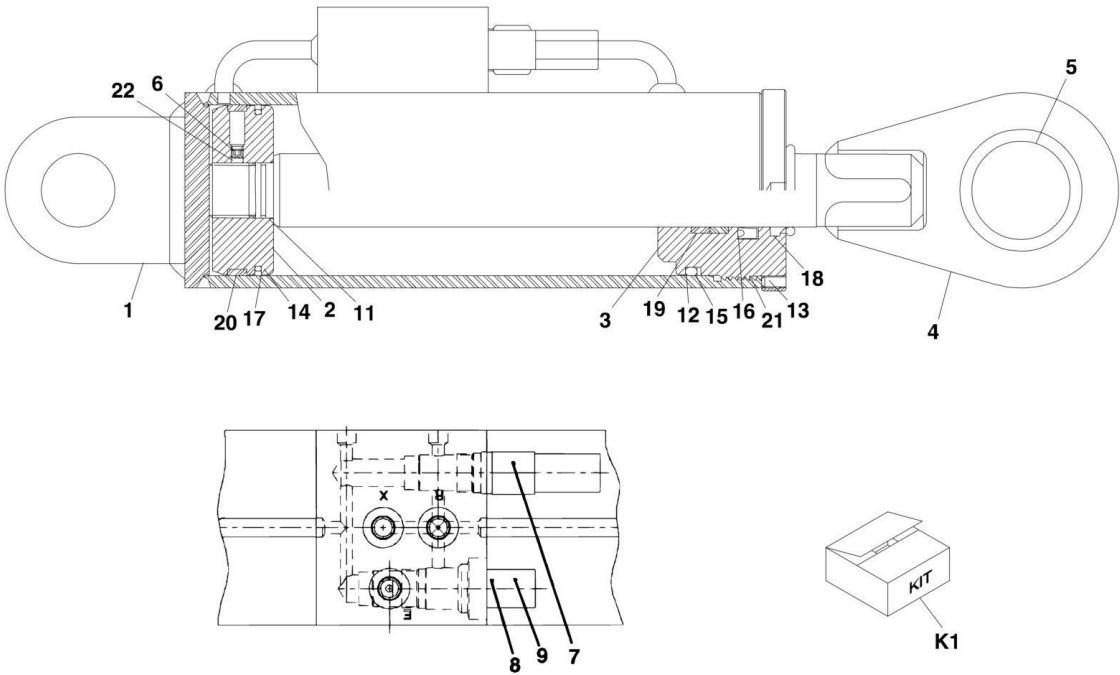
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-26. SIDE TILT CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090134	Ref	SIDE TILT CARRIAGE CYLINDER, (no longer available, use 1001163414 for replacement or items below for service)	C
	1001163414	Ref	SIDE TILT CARRIAGE CYLINDER, (includes all items)	A
1	70026056	1	BARREL	
2	70026057	1	ROD	
3	70026058	1	SCREWED PISTON HEAD, 90MM	
4	70025606	2	GREASE NIPPLE	
5	70024020	2	GREASER PROTECTOR	
6	70003849	1	GLAND	
7	70025959	2	BLANKING SCREW	
8	70026059	2	P/O CHECK VALVE	
9	70002219	1	INTERNAL SNAP RING	
10	70026060	4	INTERNAL SNAP RING	
11	70026061	2	SPHERICAL BEARING	
12	70024262	2	BLANKING SCREW	
13	70002224	1	LOCKING RING	
14	Kit	2	ROD BEARING RING	
15	Kit	2	PISTON BEARING RING	
16	Kit	1	PISTON SEAL	
17	Kit	1	O-RING	
18	Kit	1	BACK UP RING	
19	Kit	1	ROD SEAL	
20	Kit	1	O-RING	
21	Kit	1	WIPER SEAL	
101	70026062	1	SEAL KIT, (includes items 14 thru 21)	

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FIGURE 9-27. 72IN 90, SWING CARRIAGE CYLINDER



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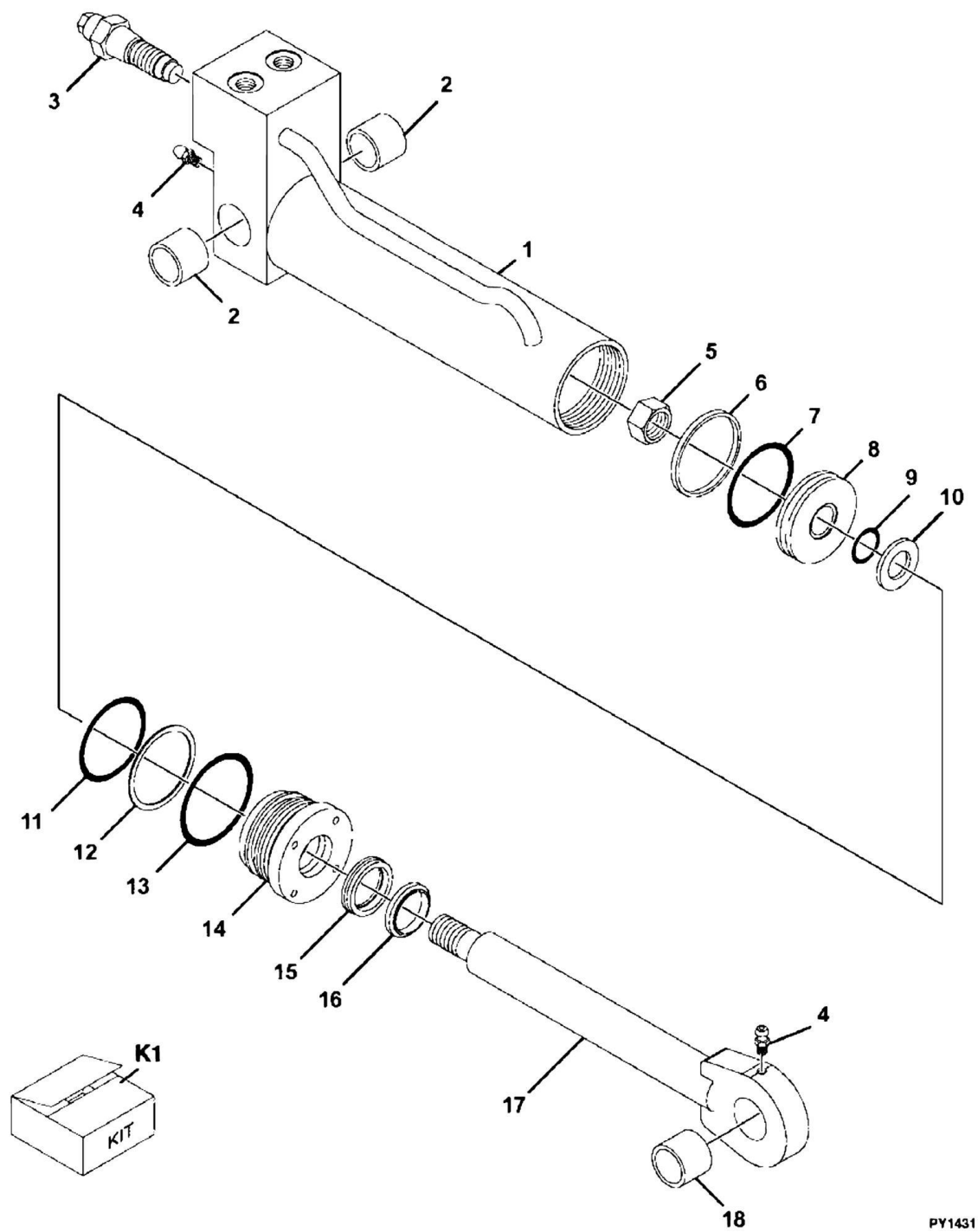
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FIGURE 9-27. 72IN 90, SWING CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103182	1	SWING CARRIAGE CYLINDER, (includes items 1 thru 22)	B
1	70022044	1	TUBE ASSY	
2	8035863	1	PISTON	
3	8035862	1	HEAD GLAND	
4	70022045	1	ROD ASSY	
5	70022046	1	BEARING	
6	8035536	2	SET SCREW, 5/16-18X1/2	
7	70020428	1	RELIEF VALVE, (preset to 2000psi)	
7	7024574	1	SEAL KIT	
8	8033786	1	COUNTER BALANCE VALVE, (preset to 3000psi)	
8	8205655	1	SEAL KIT	
9	70021812	1	TAMPERPROOF CAP	
11	Kit	1	O-RING	
12	Kit	1	O-RING	
13	Kit	1	O-RING	
14	Kit	1	SQUARE RING	
15	Kit	1	BACKUP RING	
16	Kit	1	SEAL	
17	Kit	1	PISTON SEAL	
18	Kit	1	ROD WIPER	
19	Kit	2	WEARBAND	
20	Kit	1	WEARBAND	
21	Kit	2	INSERT	
22	Kit	2	INSERT	
K1	2915023	1	SEAL KIT, (includes items 11 thru 22)	

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FIGURE 9-28. GRAPPLE BUCKET CYLINDER



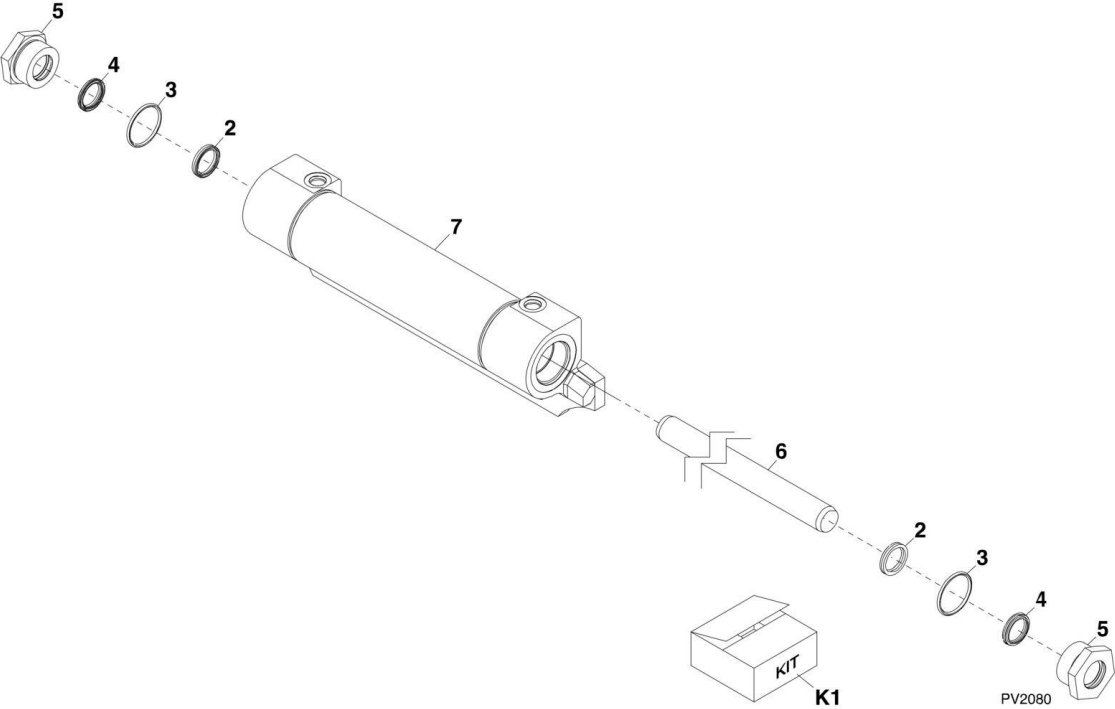
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-28. GRAPPLE BUCKET CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021393	1	GRAPPLE BUCKET CYLINDER, (includes all items)	
1	70021465	1	CYLINDER TUBE	
2	70021448	2	BUSHING	
3	70021464	2	VALVE CARTRIDGE	
4	90554045	2	GREASE FITTING	
5	70021440	1	HEX NUT	
6	Kit	1	PISTON RING	
7	Kit	1	O-RING	
8	70021451	1	PISTON	
9	Kit	1	O-RING	
10	70021444	1	WASHER	
11	Kit	1	O-RING	
12	Kit	1	BACK-UP WASHER	
13	Kit	1	O-RING	
14	70021446	1	CYLINDER GLAND	
15	Kit	1	POLY-PAK SEAL	
16	Kit	1	ROD WIPER	
17	70021466	1	PISTON ROD	
18	70021447	1	BUSHING	
K1	70021452	1	SEAL KIT, (includes items 6, 7, 9, 11 thru 13, 15 & 16)	

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FIGURE 9-29. 50IN SIDE SHIFT CARRIAGE CYLINDER (SN 0160037900 to Present, Including 0160037855)



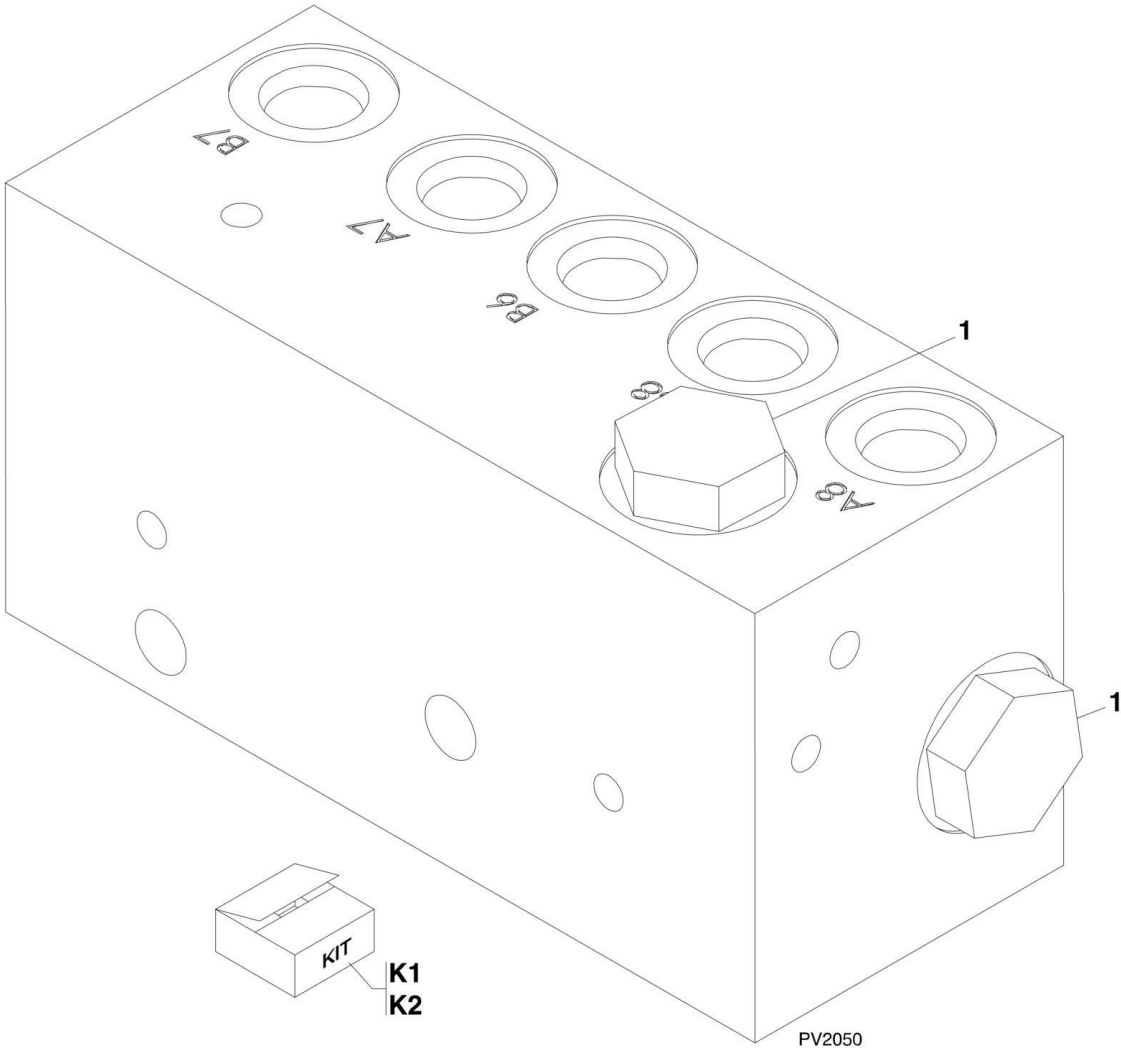
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FIGURE 9-29. 50IN SIDE SHIFT CARRIAGE CYLINDER (SN 0160037900 to Present, Including 0160037855)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70024539	1	50 IN SIDE SHIFT CARRIAGE CYLINDER, (includes all items)	B
2	Kit	2	ROD SEAL	
3	70024547	2	O-RING	
4	Kit	2	ROD WIPER SEAL	
5	70024548	2	RETAINER SEAL	
6	N.S.S.	1	ROD	
7	N.S.S.	1	BARREL	
K1	70024549	1	SEAL KIT, (includes items 2 & 4)	

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FIGURE 9-30. SHUTTLE VALVE (SN 0160048698 to Present)



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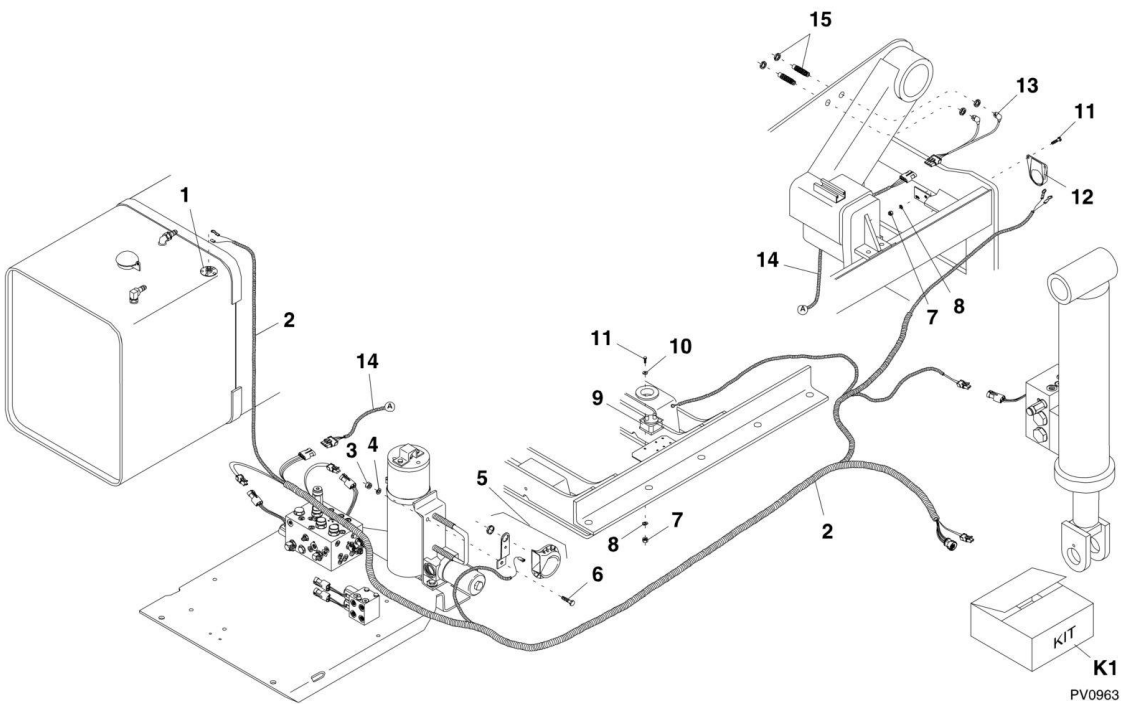
FIGURE 9-30. SHUTTLE VALVE (SN 0160048698 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001142244	1	SHUTTLE VALVE, (includes items 1)	B
1	N.S.S.	3	PLUG	
K1	10837580	1	CARTRIDGE KIT	
K2	10837580	1	SEAL KIT	

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FIGURE 10-1. FRAME HARNESS INSTALLATION (SN 0160009654 through 0160017144, Including 0160008714)



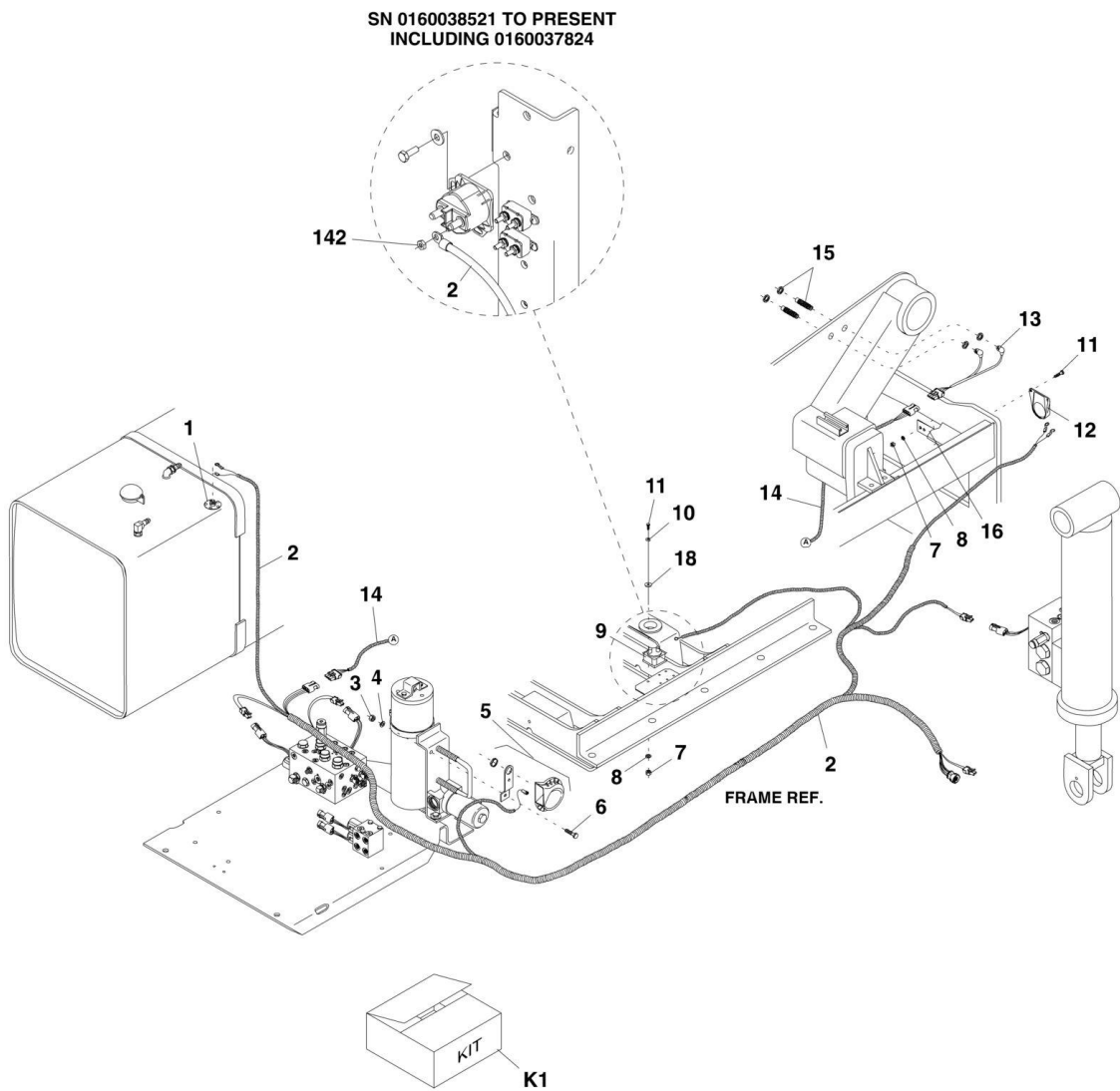
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FIGURE 10-1. FRAME HARNESS INSTALLATION (SN 0160009654 through 0160017144, Including 0160008714)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FUEL/HYDRAULIC TANK ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	10468666	1	INTERMEDIATE CIRCUIT BOARD WIRE HARNESS	
3	10701507	1	HEX NUT, 5/16-18	
4	10701309	1	LOCKWASHER, 5/16	
5	10268663	1	HORN	
6	10700102	1	HEX HD CAPSCREW, 5/16-18X3/4	
7	10701506	4	HEX NUT, 1/4-20	
8	10701308	4	LOCKWASHER, 1/4	
9	10167789	1	STARTER RELAY	
10	10701275	2	HARD WASHER	
11	10700003	4	HEX HD CAPSCREW, 1/4-20X3/4	
12	N.S.S.	NLA	BACK-UP ALARM, (no longer available, use Kit K1 for replacement)	
13	1101857	1	PROXIMITY SWITCH HARNESS	
14	10165923	1	PROXIMITY SWITCH WIRE HARNESS	
15	1101780	2	PROXIMITY SWITCH	
K1	2915184	1	BACK-UP ALARM SERVICE KIT	

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FIGURE 10-2. FRAME HARNESS INSTALLATION (SN 0160017145 to Present)



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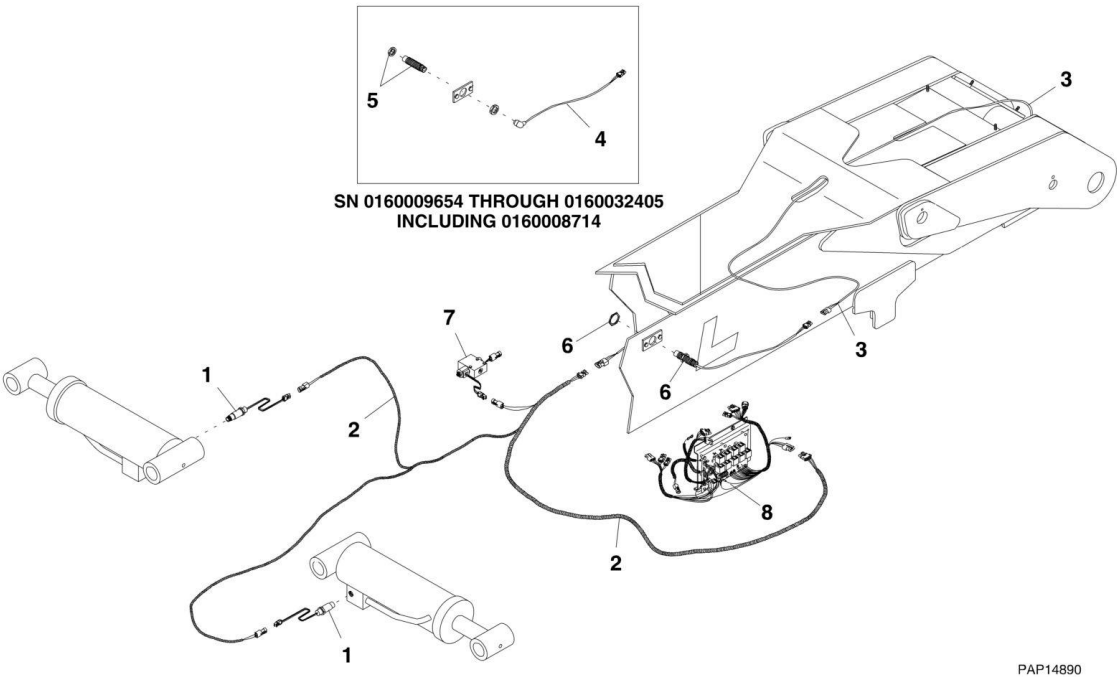
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FIGURE 10-2. FRAME HARNESS INSTALLATION (SN 0160017145 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FUEL/HYDRAULIC TANK ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	4923407	1	INTERMEDIATE CIRCUIT BOARD WIRE HARNESS (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)	C
2	1001114326	1	INTERMEDIATE CIRCUIT BOARD WIRE HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)	B
3	10701507	1	HEX NUT, 5/16-18	
4	10701309	1	LOCKWASHER, 5/16	
5	10268663	1	HORN	
6	10700102	1	HEX HD CAPSCREW, 5/16-18X3/4	
7	8305624	4	HEX NUT, 1/4-20	
8	4711400	4	WASHER, 1/4	
9	10167789	1	STARTER RELAY	
10	10701275	2	HARD WASHER	
11	0641406	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
12	8270621	1	BACK-UP ALARM	
13	1101857	1	PROXIMITY SWITCH HARNESS (SN 0160017145 through 0160032363)	B
13	1001091643	1	PROXIMITY SWITCH HARNESS (SN 0160032364 to Present)	A
14	10165923	1	PROXIMITY SWITCH WIRE HARNESS	
15	1101780	2	PROXIMITY SWITCH (SN 0160017145 through 0160032363)	
16	3576433	1	MOUNTING BAR	
18	4791400	2	STAR WASHER, 1/4	
19	103382003	1	GROUND CABLE, (cab to frame ground), (not shown)	
20	10701310	2	LOCKWASHER, 3/8, (not shown)	
21	10701558	2	JAM NUT, 3/8-16, (not shown)	
22	10701402	4	WASHER, 1/4, (not shown)	
142		Ref	HEX NUT, #10-24, GR5, (See ENGINE ELECTRICAL GROUP for Breakdown)	
K1	2902550	1	CONNECTOR REPLACEMENT KIT	

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FIGURE 10-3. OUTRIGGER/BOOM EXTEND LOCKOUT HARNESS INSTALLATION



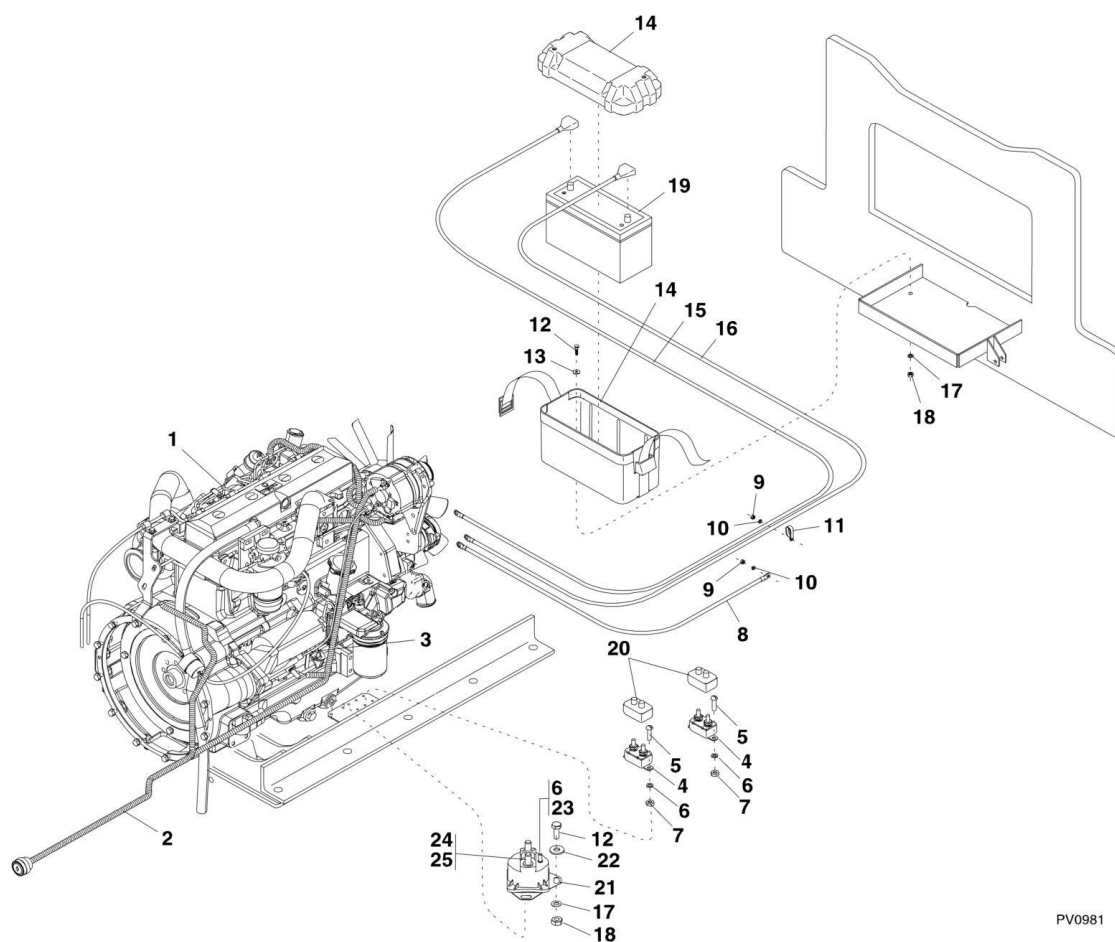
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FIGURE 10-3. OUTRIGGER/BOOM EXTEND LOCKOUT HARNESS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10168441	2	DIFFERENTIAL PRESSURE SWITCH	
2	10366809	1	LOWER BOOM EXTEND WIRE HARNESS	
3	10139351	1	PROXIMITY SWITCH BOOM EXTEND WIRE HARNESS	
4	10138231	1	PROXIMITY SWITCH CONNECTION WIRE (SN 0160009654 through 0160032405, Including 0160008714)	
5	1101780	1	PROXIMITY SWITCH (SN 0160009654 through 0160032405, Including 0160008714)	
6	1001091371	1	PROXIMITY SWITCH HARNESS (SN 0160032406 to Present)	
7		Ref	BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
8		Ref	ELECTRICAL MOUNTING PANEL, (See FUSES, RELAYS AND BUZZER MOUNTING PANEL for Breakdown)	

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FIGURE 10-4. ENGINE ELECTRICAL GROUP (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)



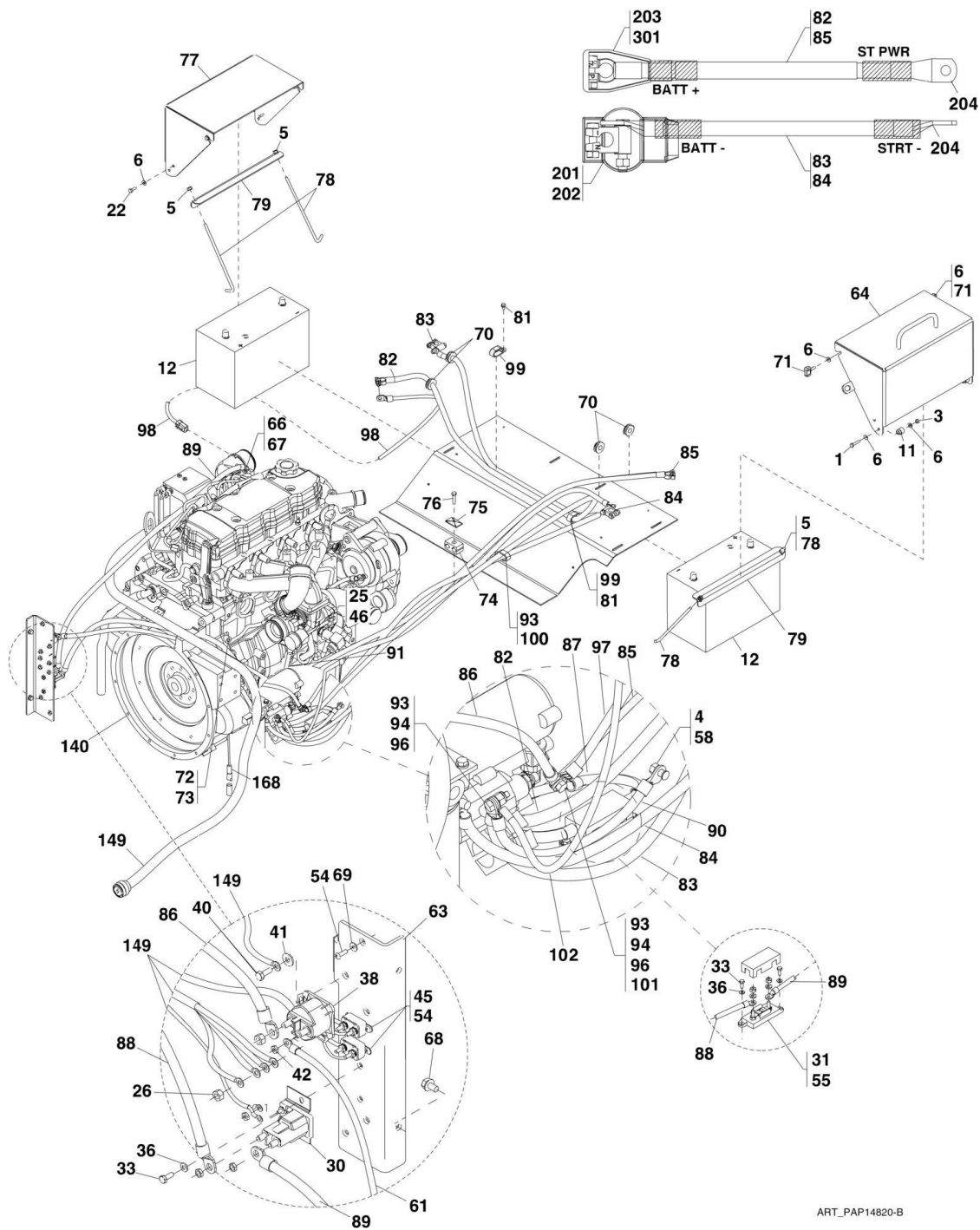
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FIGURE 10-4. ENGINE ELECTRICAL GROUP (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	JOHN DEERE ENGINE, 115HP, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
2	4923232	1	ENGINE ECU HARNESS	
3	4923247	1	DIODE HARNESS	
4	10729694	2	CIRCUIT BREAKER	
5	10702057	4	RD HD MACHINE SCREW, #10-24X3/4, GR5	
6	4761000	5	WASHER, #10	
7	10701504	4	HEX NUT, #10-24	
8	103382004	1	BATTERY GROUND CABLE	
9	10701508	3	HEX NUT, 3/8-16	
10	10701310	3	LOCKWASHER, 3/8	
11	10837368	2	BATTERY CABLE CLAMP	
12	10700003	8	HEX HD CAPSCREW, 1/4-20X3/4	
13	10701402	6	FLAT WASHER, 1/4	
14	10266935	1	BATTERY BOX, (includes cover and strap)	
15	10135646	1	POSITIVE BATTERY CABLE	
16	10165724	1	NEGATIVE BATTERY CABLE	
17	10701308	8	LOCKWASHER, 1/4	
18	10701506	8	HEX NUT, 1/4-20	
19	10740075	1	BATTERY, 12 VOLT, BCI GROUP 31, 925 CCA	
20	10867571	2	CIRCUIT BREAKER COVER	
21	10167789	1	STARTER RELAY	
22	10701275	2	HARD WASHER	
23	10701528	1	HEX NUT, #10-32	
24	10701309	2	LOCKWASHER, 5/16	
25	10701507	2	HEX NUT, 5/16-18	

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FIGURE 10-5. ENGINE ELECTRICAL GROUP (SN 0160040413 to Present, Including 0160037824 and 0160038521)



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FIGURE 10-5. ENGINE ELECTRICAL GROUP (SN 0160040413 to Present, Including 0160037824 and 0160038521)

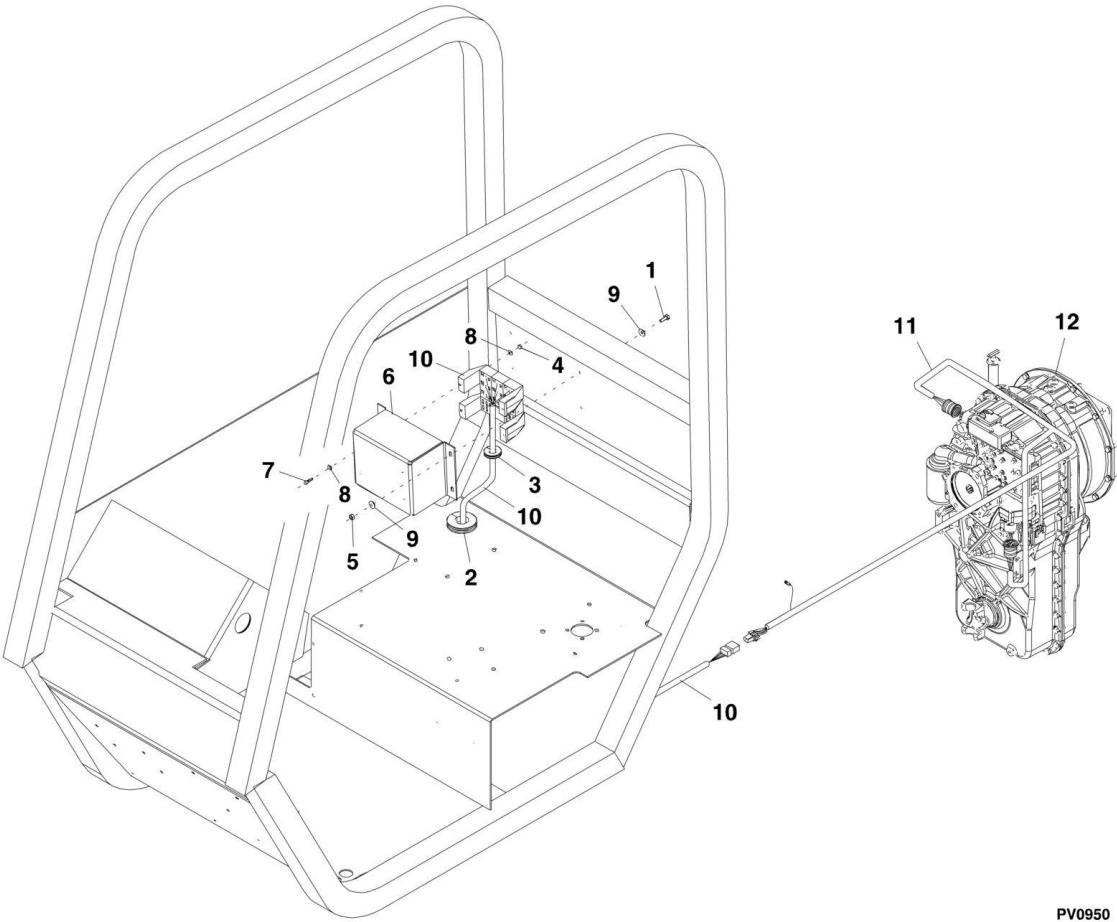
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0641410	2	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5	
3	3271405	2	HEX LOCKNUT, 1/4-20, GR8	
4	3271601	1	HEX NUT, 3/8-16	
5	3311508	4	HEX NUT, 5/16-18	
6	4711400	12	FLAT WASHER, 1/4	
11	1001096404	2	ANGLE INDICATOR SPACER	
12	1001155219	2	BATTERY, 12 VOLT, BCI GROUP 31, 750 CCA	
25	0761212	1	HEX HD CAPSCREW, 12X25mm, GR8.8, (fully threaded)	
26	3271501	2	HEX NUT, 5/16-18, GR8	
30	8225122	1	RELAY	
31	8229260	1	FUSE HOLDER	
33	8303545	4	HEX HD CAPSCREW, 6X1X14mm	
36	8307219	4	WASHER, 6mm	
38	10167789	1	STARTER RELAY	
40	10700003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
41	10701275	2	WASHER, 5/16X47/64X1/16	
42	10701504	1	HEX NUT, #10-24, GR5	
45	10729694	2	CIRCUIT BREAKER (Prior to SN 0160044252)	
46	83191010	1	LOCKWASHER, 12mm	
54	3911010	5	ROUND HD CAPSCREW, 10-24X5/8 (Prior to SN 0160044252)	
54	3911010	1	ROUND HD CAPSCREW, 10-24X5/8 (SN 0160044252 to Present)	
55	1001095336	1	FUSE,150 A, 32 VDC, MGEA BOLT	
58	4761600	1	LOCKWASHER, 3/8	
61		Ref	INTERMEDIATE CIRCUIT BOARD HARNESS, (See FRAME HARNESS INSTALLATION for Breakdown)	
63	1001115107	1	ELECTRIC PANEL PLATE	
64	1001119682	1	BATTERY COVER WELD	
66	8305047	1	HEX NUT, 6X1.0mm	
67	8310687	1	TOOTHED LOCKWASHER, 6mm	
68	0791504	2	SCREW, 5/16-18X1/2	
69	4711000	1	WASHER, 10mm	
70	2540020	5	INSULATION GROMMET	
71	2560141	2	THUMB SCREW	
72	0761012	1	HEX HD CAPSCREW, M10X25, GR 8.8	
73	83191013	1	WASHER,10mm	
74	8769122	1	TWIN CLAMP SET	
75	8769123	1	TWIN COVER PLATE	
76	0641511	1	HEX HD CAPSCREW, 5/16-18X1-3/8, GR 5	
77	1001119681	1	BATTERY COVER	
78	1001118480	4	BATTERY HOLD DOWN STUD	
79	91401281	2	BATTERY HOLD DOWN BRACKET	
81	0791404	2	SCREW, 1/4-20X1/2	
82	1001127038	1	POSITIVE BATTERY CABLE, (includes items 201 & 203)	C
83	1001127039	1	NEGATIVE JUMPER BATTERY CABLE, (includes items 201 & 202)	C
84	1001147885	1	NEGATIVE BATTERY CABLE, (includes items 201, 202 & 204)	A
85	1001147884	1	POSITIVE BATTERY CABLE, (includes items 201, 203 & 204)	A
86	1001128164	1	STARTER RELAY CABLE	
86	8220114	2	TERMINAL RING, 5/16, 6 AWG	
87	1001128165	1	FUSE POWER CABLE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
87	8220114	2	TERMINAL RING, 5/16, 6 AWG	
88	1001128166	1	FUSE SOLENOID POWER CABLE	
88	8220114	2	TERMINAL RING, 5/16, 6 AWG	
89	1001128167	1	SOLENOID POWER CABLE	
90	1001128200	1	FRAME GROUND CABLE	
90	1001117116	2	TERMINAL RING, 3/8, 2 AWG	
91	1001128201	1	ENGINE GROUND CABLE	
91	1001117116	2	TERMINAL RING, 3/8, 2 AWG	
93	0641610	3	HEX HD CAPSCREW, 3/8-16X1-1/4, GR 5	
94	4711600	2	WASHER, 3/8	
96	88521206	2	LOCKNUT, 3/8-16	
97	7310012	1	FUSEABLE LINK, 150 AMP	
98		Ref	ECM POWER HARNESS, (See ECM POWER HARNESS for Breakdown)	
99	8406112	4	CLIP	
100	10837368	1	DOUBLE TUBE CLAMP	
101	7300344	1	BUS BAR, STARTER NEGATIVE	
102	1001119904	1	ALTERNATOR CABLE, NEGATIVE	
140		Ref	ENGINE ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
149		Ref	ECU ENGINE HARNESS, (See ENGINE ECU HARNESS for Breakdown)	
168	1001114191	1	STARTER EXTENSION HARNESS	
201	4461270	4	TERMINAL RING, 3/8, 2 AWG	
202	8270147	2	NEGATIVE BATTERY CLAMP ASSY, (includes hardware and cover)	
203	4461265	2	POSITIVE BATTERY TERMINAL ASSY, (includes item 301 and hardware)	
204	1001117118	4	TERMINAL RING, 3/8, 2 AWG	
301	4461233	2	POSITIVE BATTERY COVER	

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FIGURE 10-6. TRANSMISSION HARNESS INSTALLATION



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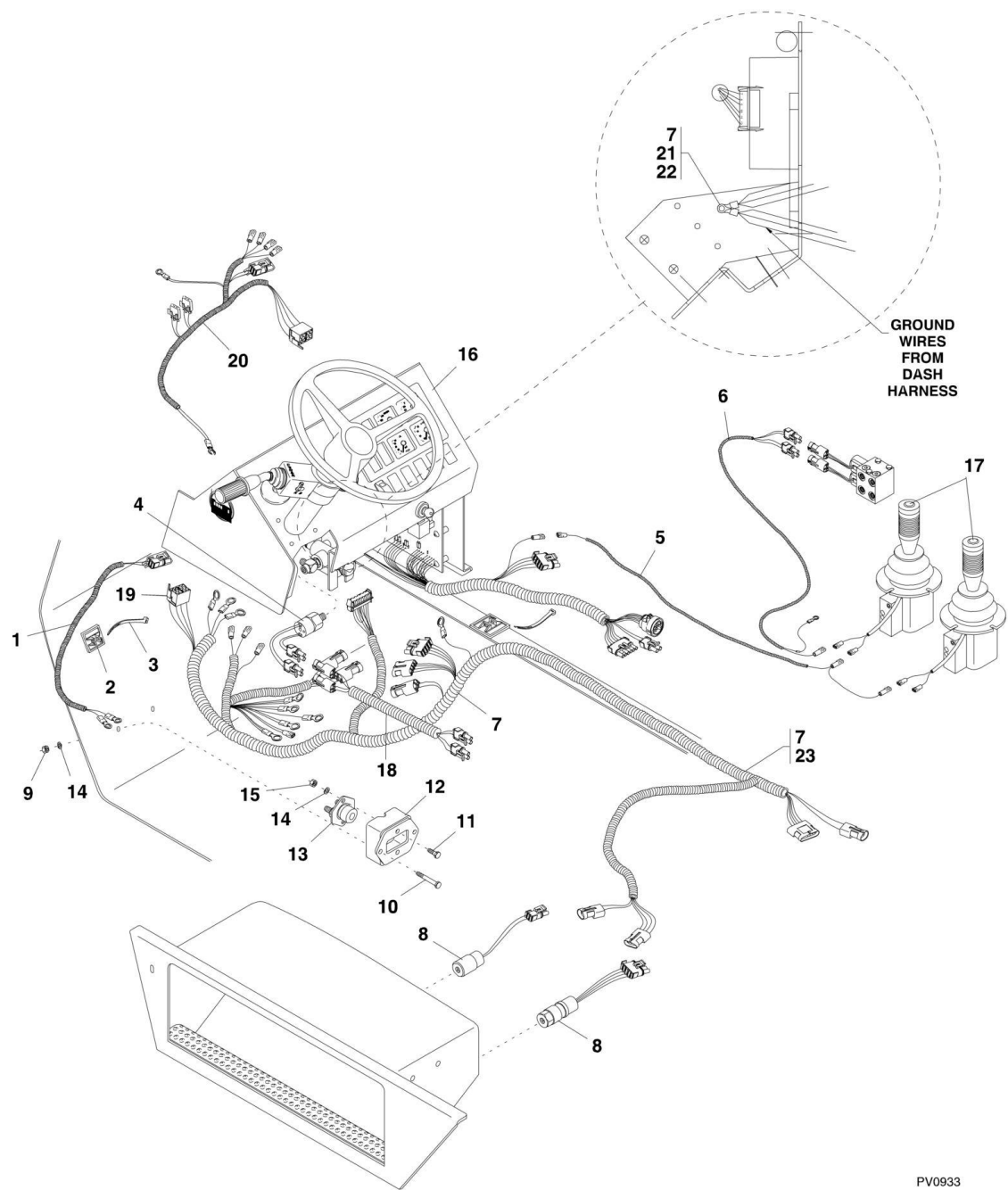
SECTION 10 - ELECTRICAL

FIGURE 10-6. TRANSMISSION HARNESS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0641406	4	HEX HD CAPSCREW, 1/4-20X3/4	
2	2540048	1	RUBBER GROMMET	
3	2540049	1	RUBBER GROMMET	
4	3311001	4	HEX NUT, #10-24	
5	3311401	4	HEX NUT, 1/4-20	
6	3380583	1	MODULE COVER	
7	3931012	4	SOCKET HD CAPSCREW, #10-24X3/4	
8	4711000	8	PLAIN WASHER, #10	
9	4751400	8	PLAIN WASHER, 1/4	
10	4923246	1	TRANSMISSION RELAY HARNESS	
11	4923243	1	TRANSMISSION SOLENOID HARNESS	
12		Ref	ZF TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)	

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FIGURE 10-7. OPERATOR'S COMPARTMENT ELECTRICAL GROUP INSTALLATION



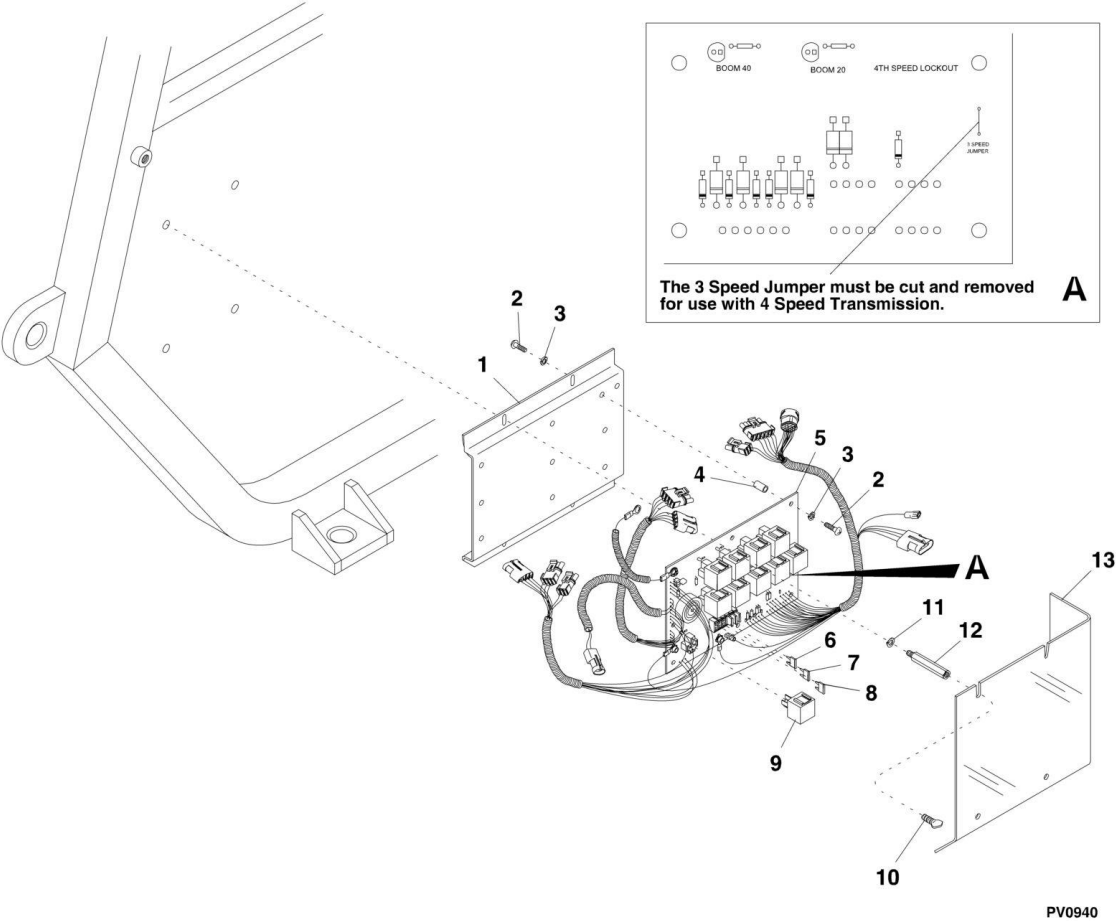
SECTION 10 - ELECTRICAL

FIGURE 10-7. OPERATOR'S COMPARTMENT ELECTRICAL GROUP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10166906	1	FOOT SWITCH HARNESS, DLO	C
2	10727600	3	TIE WRAP MOUNT	
3	10727600	3	TIE WRAP	
4	10166941	1	PRESSURE SWITCH - D.P.S.T NORMALLY CLOSED, PARK BRAKE	
5	10138471	1	JOYSTICK POWER WIRE HARNESS	
6	10239510	1	JOYSTICK SOLENOID WIRE HARNESS	
7	4923233	1	DASH HARNESS (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)	
7	1001114170	1	DASH HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
8		Ref	TEST PORT HYDRAULIC CIRCUIT, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
9	10866830	2	HEX NUT, 1/4-20	
10	10700010	2	HEX HD CAPSCREW, 1/4-20X2-1/4	
11	10700003	2	HEX HD CAPSCREW, 1/4-20X3/4	
12	10266453	1	FOOT SWITCH WELDMENT	
13	10866446	1	FOOT SWITCH, DLO	
14	10701308	4	LOCKWASHER, 1/4	
15	10701506	2	HEX NUT, 1/4-20	
16		Ref	INSTRUMENT PANEL ASSY, (See CAB SECTION for Breakdown)	
17		Ref	JOYSTICK CONTROL HYDRAULIC CIRCUIT, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
18	4923253	1	JUMPER WIRE	
19	3740149	1	PARK BRAKE RELAY	
20	10367788	1	FRONT WIPER AND HEATER HARNESS	
21	3911008	1	ROUND HD MACHINE SCREW, #10-24X1/2	
22	10705104	1	NUT, #10-24	
23	10720496	5	TIE WRAP	

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FIGURE 10-8. FUSES, RELAYS AND BUZZER MOUNTING PANEL



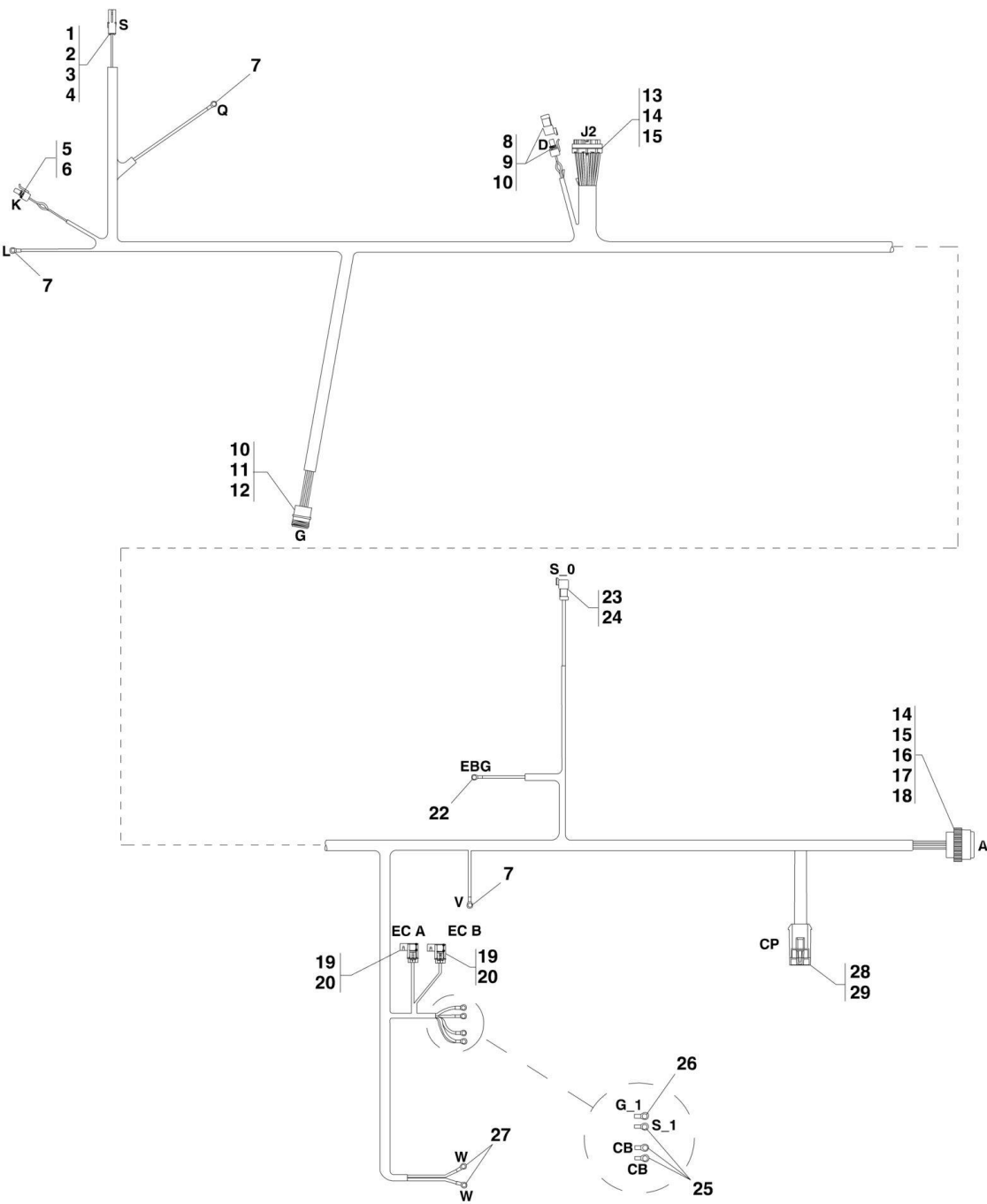
SECTION 10 - ELECTRICAL

FIGURE 10-8. FUSES, RELAYS AND BUZZER MOUNTING PANEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10367205	1	CIRCUIT BOARD ASSY, (includes items 1 thru 9)	AB
1	10266950	1	CIRCUIT BOARD MOUNTING PANEL	
2	10867173	18	ROUND HD SLOTTED SCREW, #8-32X1/4	
3	10701305	18	LOCKWASHER, #8	
4	10867159	9	STAND-OFF, FEMALE RD., #8-32X1/2	
5	10366891	1	CIRCUIT BOARD	
6	10866827	1	FUSE, BLADE TYPE - 7.5 AMP, (Brown)	
7	10866828	3	FUSE, BLADE TYPE - 10 AMP, (Red)	
8	10866829	2	FUSE, BLADE TYPE - 15 AMP, (Blue)	
9	8225119	10	SEALED RELAY,HIGH INRUSH W/ RESISTOR	
10	10138251	3	THUMB SCREW, 1/4-20	
11	10701402	4	FLAT WASHER, 1/4	
12	10138327	4	STAND-OFF, 3 1/4 LONG HEX	
13	10238319	1	ELECTRICAL PANEL COVER, PLASTIC	

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FIGURE 10-9. ENGINE ECU HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)



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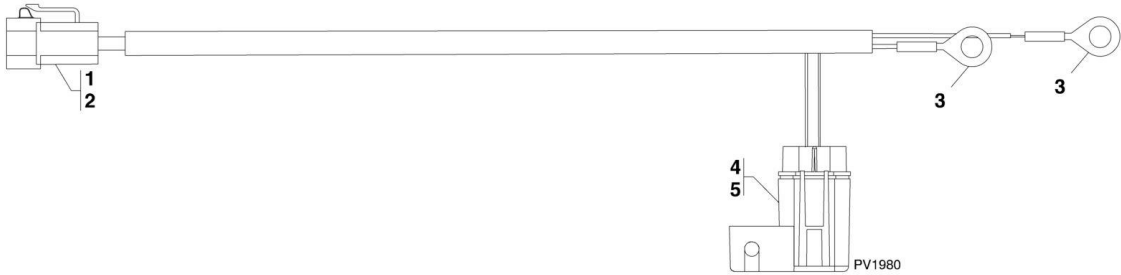
SECTION 10 - ELECTRICAL

FIGURE 10-9. ENGINE ECU HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127037	1	ENGINE ECU HARNESS, (includes all items)	D
1	4460590	1	CONNECTOR	
2	8220124	1	TERMINAL	
3	4460608	1	TERMINAL SEAL	
4	1001116727	1	PLUG	
5	1001117021	1	CONNECTOR	
6	4460746	1	TERMINAL	
6	4460458	1	TERMINAL SEAL	
7	4460042	3	TERMINAL RING	
8	4460539	1	CONNECTOR	
8	77363244	1	WEDGE LOCK	
9	4460944	1	CONTACT	
10	4460466	2	PLUG	
11	1001116975	1	HOUSING	
12	4460943	1	CONTACT	
13	1001116821	1	CONNECTOR	
14	1001116694	3	TERMINAL	
15	4460518	3	PLUG	
16	1001116962	2	CONNECTOR	
17	4460465	2	TERMINAL	
18	4460509	2	CONTACT	
19	1001117018	2	CONNECTOR, (includes 25 amp fuse)	
20	1001116735	2	FEMALE TERMINAL	
22	4460256	1	TERMINAL RING	
23	1001116966	1	CONNECTOR	
24	91143340	1	TERMINAL	
25	8220045	3	TERMINAL RING	
26	4460043	1	TERMINAL RING	
27	4460247	1	TERMINAL RING	
28	1001117060	1	CONNECTOR	
29	1001116738	1	TERMINAL	

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FIGURE 10-10. ECM POWER HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)



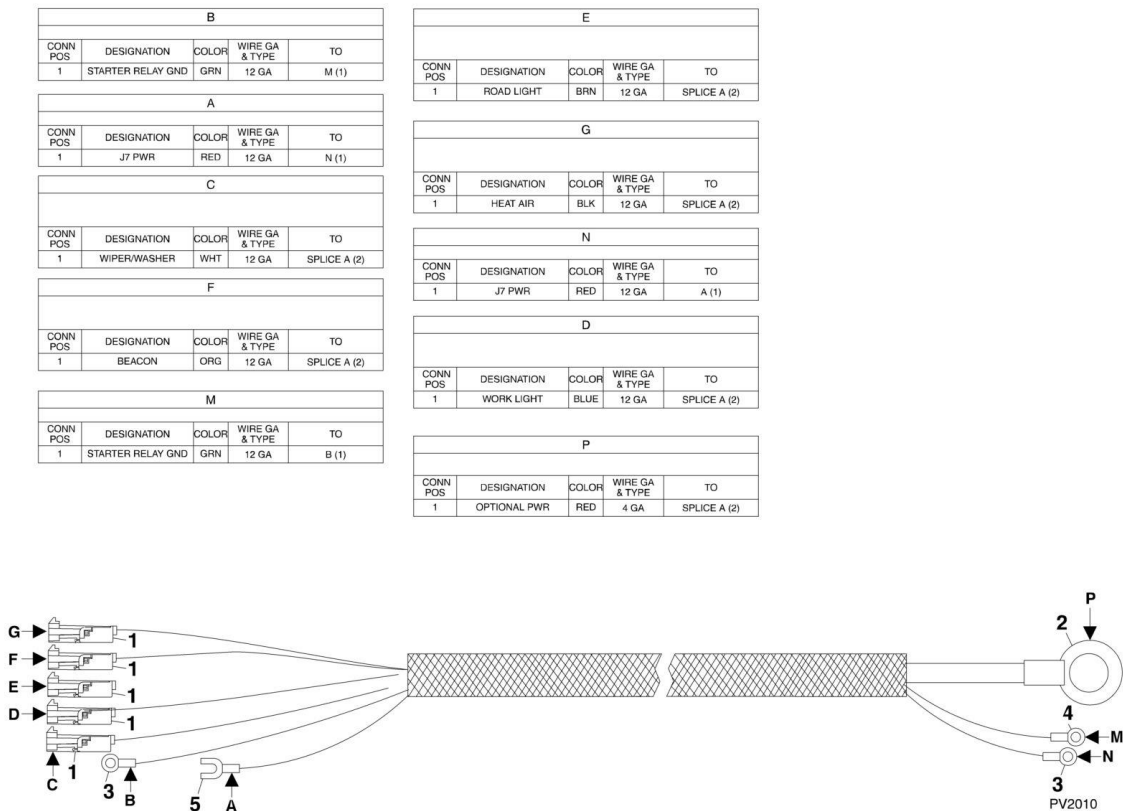
SECTION 10 - ELECTRICAL

FIGURE 10-10. ECM POWER HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127042	1	ECM POWER HARNESS, (includes all items)	C
1	1001116810	1	PLUG	
2	4460509	1	CONTACT	
3	4460142	2	TERMINAL RING, #10	
4	1001117070	1	SEALED CONNECTOR, (includes fuse cap and 30 amp fuse)	
5	1001116735	1	CONNECTOR	

SECTION 10 - ELECTRICAL

FIGURE 10-11. ELECTRICAL OPTIONS HARNESS (SN 0160032761 to Present)



SECTION 10 - ELECTRICAL

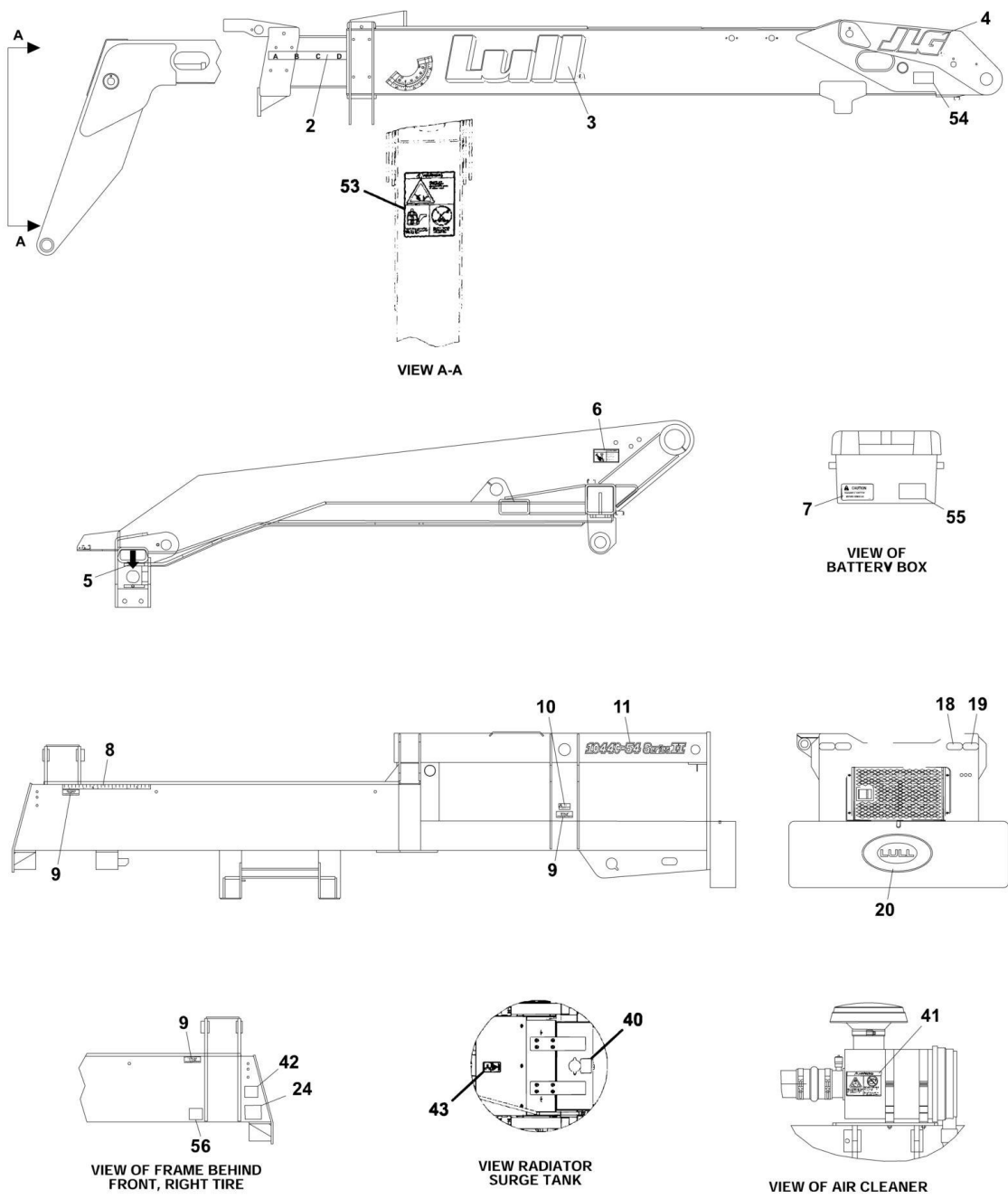
FIGURE 10-11. ELECTRICAL OPTIONS HARNESS (SN 0160032761 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001097109	1	ELECTRICAL OPTIONS HARNESS, (includes all items)	E
1	80963056	5	CONNECTOR	
1	80963069	1	TERMINAL	
1	80963067	1	SEAL	
2	4460443	1	TERMINAL RING	
3	4460312	2	TERMINAL RING	
4	4460142	1	TERMINAL RING	
5	4460315	1	TERMINAL RING	

SECTION 11 - DECALS

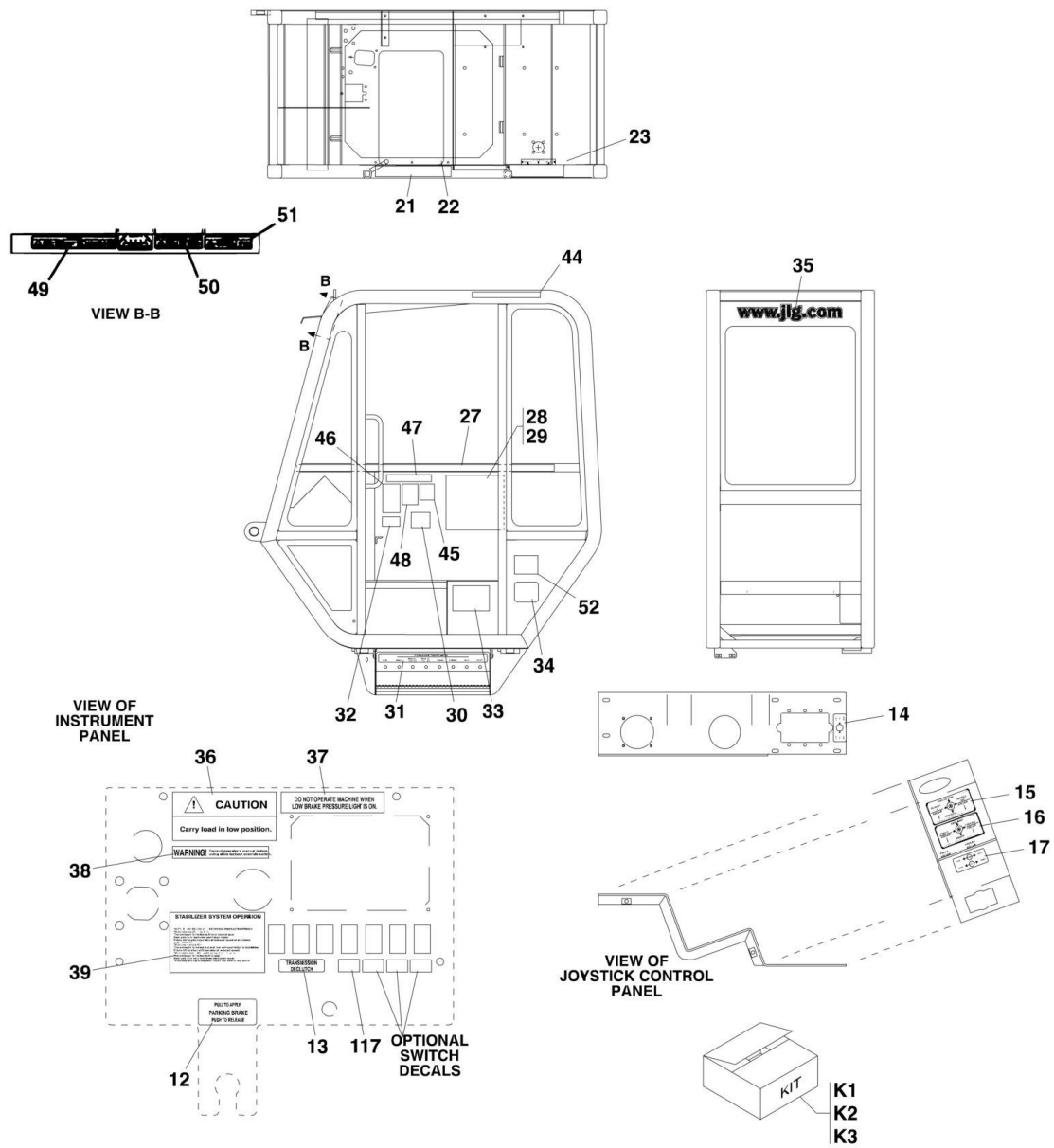
SECTION 11 - DECALS

FIGURE 11-1. DECAL GROUP



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SECTION 11 - DECALS



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SECTION 11 - DECALS

FIGURE 11-1. DECAL GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	10239784	1	BOOM EXTENSION DECAL	
3	1706103	2	LULL BOOM DECAL	
4	1706101	2	JLG DECAL	
5	10116346	2	SMALL ARROW DECAL	
6	10267807	1	PROXIMITY SWITCHES WARNING DECAL	
7	10135092	2	DISCONNECT BATTERY DECAL	
8	10438305	1	FRAME TRANSFER SCALE DECAL	
9	10124751	4	TIRE BALLAST REQUIRED DECAL	
10	10121319	2	DON'T BE CARELESS DECAL	
11	1706400	2	DECAL 1044C-54 SERIES II	
12	10135193	1	PARKING BRAKE DECAL	
13	10135082	1	TRANSMISSION DE-CLUTCH DECAL	
14	10130487	1	FRAME TILT DECAL	
15	10135091	1	FORK TILT, TRANSFER AND AUX DECAL	
16	10135090	1	BOOM HOIST/EXTEND AND AUX DECAL	
17	10138929	1	OUTRIGGER CONTROL DECAL	
18	10718992	2	YELLOW REFLECTOR (SN 0160009654 through 0160028941, Including 0160008714)	
18	7301380	2	ORANGE REFLECTOR (SN 0160028942 to Present)	
19	10718991	2	RED REFLECTOR (SN 0160009654 through 0160028941, Including 0160008714)	
19	7301379	2	RED REFLECTOR (SN 0160028942 to Present)	
20	1706511	1	LULL LOGO DECAL	
21	1012350	1	NON-SKID SURFACE STRIP	
22	10139087	1	SAFETY TREAD	
23	10112750	1	STEER SELECT PLATE	
24	N.S.S.	Ref	SN PLATE	
27	10438304	1	CAB TRANSFER SCALE DECAL	
28	1706502	1	SERVICE/LUBRICATION FLIP CARD (Prior to SN 0160037787)	
28	1001103932	1	SERVICE/LUBRICATION FLIP CARD (SN 0160037787 to Present)	
29	1001105327	1	CAPACITY CHART (Prior to SN 0160037900)	2
29	10239982	1	SWING CARRIAGE CAPACITY CHART (Prior to SN 0160037900)	
29	1001106009	1	CAPACITY CHART (SN 0160037900 to Present)	B
29	1001110409	1	SUPPLEMENTAL CAPACITY CHART BOOKLET (SN 0160037900 to Present)	B
30	10139033	1	OUTRIGGER CAUTION DECAL	
31	10339962	1	DIAGNOSTIC PORTS DECAL	
32	1702962	1	CALIFORNIA PROPOSITION 65 WARNING DECAL	
33	10220964	1	CAUTION DECAL	
34	3251813	1	USA DECAL	
35	1705687	1	JLG WEBSITE DECAL	
36	10167809	1	LOW LOAD DECAL	
37	10124906	1	LOW BRAKE PRESSURE WARNING DECAL	
38	10167810	1	WARNING CONSULT MANUAL DECAL	
39	10167808	1	STABILIZER SYSTEM OPERATION DECAL	
40	1001109053	1	SLOW FILL DECAL (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
41	1706300	1	NO ETHER DECAL (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
42	1001131271	1	PATENT TELEHANDLERS DECAL	
43	1706301	1	MOVING PARTS DECAL	

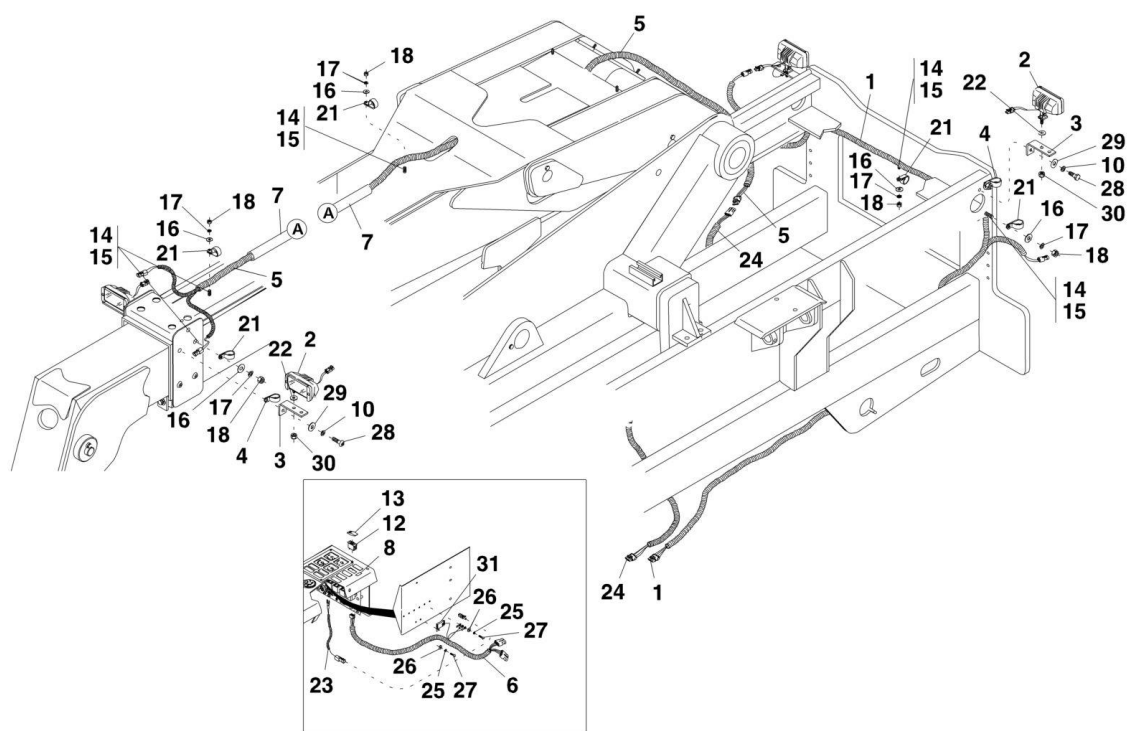
SECTION 11 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	1701640	1	MANUAL DECAL	
45	1706851	1	WARNING DO NOT JUMP DECAL, (ANSI)	
46	1706304	1	RUN OVER DECAL, (ANSI)	
47	1706303	1	READ MANUAL DECAL, (ANSI)	
48	1706767	1	MACHINE ROLL DECAL, (ANSI)	
49	1706306	1	TIP OVER DECAL	
50	1706299	1	ELECTROCUTION HAZARD DECAL	
51	1706850	1	CRUSH HAZARD WARNING DECAL	
52	1706768	1	NO RIDERS DECAL	
53	1706298	1	CARRY PERSONNEL DECAL	
54	1706302	2	PINCH POINT DECAL	
55	1706296	2	BATTERY WARNING DECAL	
56	1702631	1	DECAL, BAR CODE	
117	10138410	1	WINDSHIELD WASHER DECAL, (enclosed cab)	
K1	2915193	1	DECAL KIT, (includes items 1 thru 17, 20 thru 23, 27, 30 thru 55 & items 51 & 55 thru 58 on BOOM SECTION)	
K2	1001115205	1	RIGHT SIDE DASH DECAL KIT, (includes items 45 thru 48)	
K3	1001115208	1	DECALS CAB KIT, (ANSI), (includes items 34 & 49 thru 52)	

SECTION 12 - OPTIONS

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FIGURE 12-1. WORKLIGHT OPTION INSTALLATION (SN 0160009654 through 0160019928, Including 0160008714)



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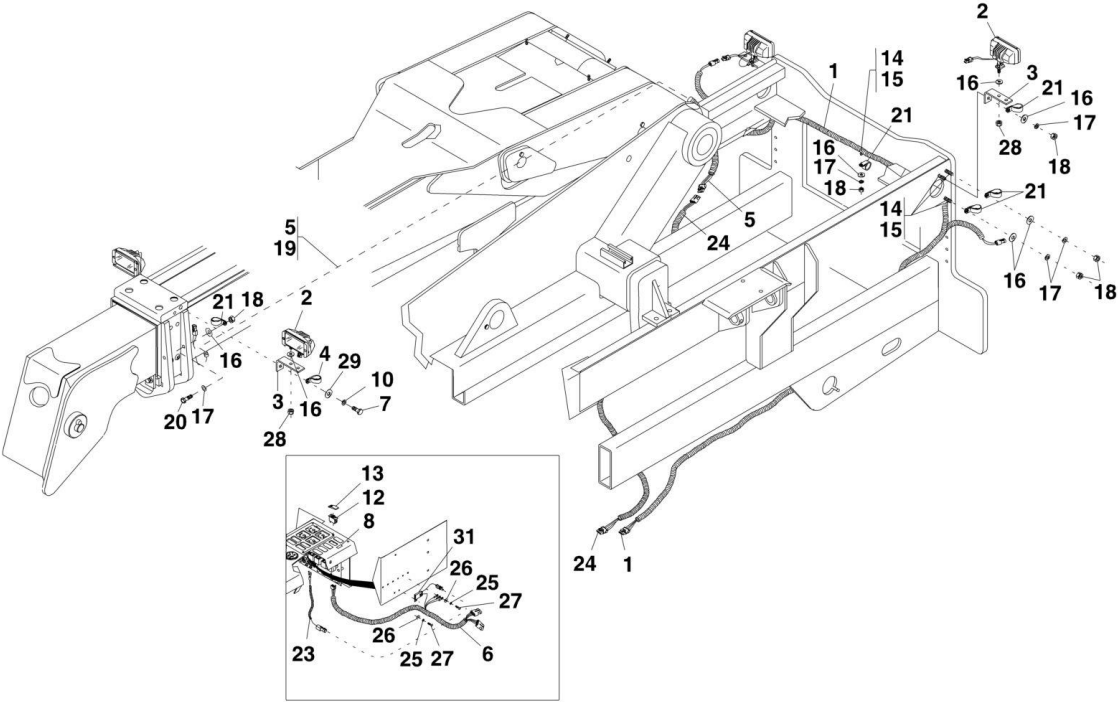
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FIGURE 12-1. WORKLIGHT OPTION INSTALLATION (SN 0160009654 through 0160019928, Including 0160008714)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10567238	Ref	WORKLIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 31 for service)	AC
1	10265501	1	REAR WIRE HARNESS	
2	10165536	4	FLOOD LIGHT	
3	10236518	4	LIGHT MOUNT	
4	10837318	4	CLAMP, 3/8	
5	10265500	1	BOOM WIRE HARNESS	
6	10367239	1	UNDER DASH WIRE HARNESS	
7	10138431	1	ELECTRIC WIRING TUBE	
8	10138409	1	WORK LIGHTS DECAL	
10	10701312	4	FLAT WASHER, 1/2	
12	10837308	1	OFF-ON-ON SWITCH, (work lights)	
13	10837309	1	ACTUATOR SWITCH	
14	10837141	15	STUD, 3/8-16X1	
15	10837142	15	FERRULE, 3/8-16	
16	10701404	15	FLAT WASHER, 3/8	
17	10701310	15	LOCKWASHER, 3/8	
18	10701508	15	HEX NUT, 3/8-16	
21	10717554	15	CLAMP, 3/8	
22	10701403	4	FLAT WASHER, 5/16	
23	10167013	1	AUX WIRE HARNESS	
24	10165550	1	TRANSFER CARRIAGE WIRE HARNESS	
25	10701306	6	LOCKWASHER, #10	
26	10701400	6	FLAT WASHER, #10	
27	10702054	6	MS SCREW, #10	
28	8310474	4	WELD STUD, 1/2-13X1-1/2	
29	8307007	4	LOCKWASHER, 1/2	
30	8305012	4	HEX NUT, 1/2-13	
31	10167871	4	FUSE HOLDER ASSY	

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FIGURE 12-2. WORKLIGHT OPTION INSTALLATION (SN 0160019929 through 0160030844)



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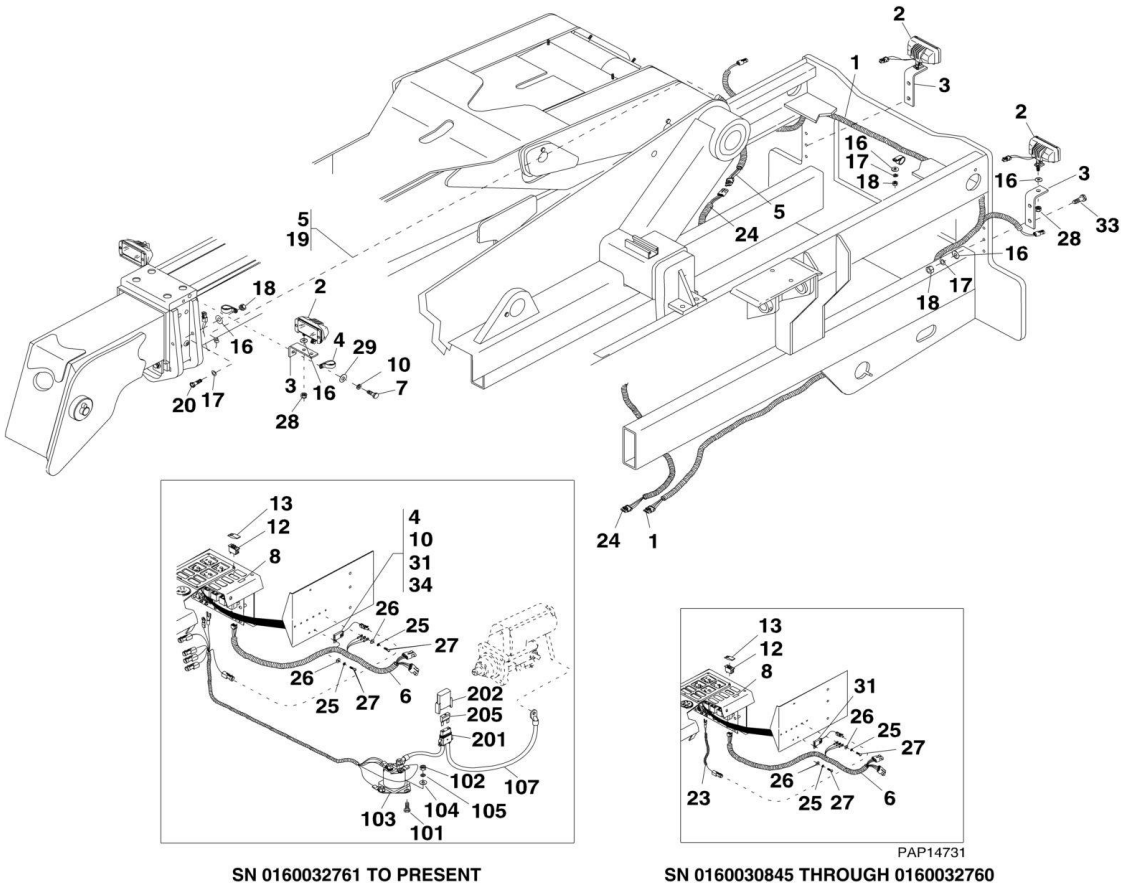
SECTION 12 - OPTIONS

FIGURE 12-2. WORKLIGHT OPTION INSTALLATION (SN 0160019929 through 0160030844)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10567238	Ref	WORKLIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 31 for service)	D
1	10265501	1	REAR WIRE HARNESS	
2	10165536	4	FLOOD LIGHT	
3	10236518	4	LIGHT MOUNT	
4	10837318	4	CLAMP, 3/8	
5	10265500	1	BOOM WIRE HARNESS	
6	10367239	1	UNDER DASH WIRE HARNESS	
7	0641806	2	HEX HD CAPSCREW, 1/2-13X3/4	
8	10138409	1	WORK LIGHTS DECAL	
10	10701312	2	FLAT WASHER, 1/2	
12	10837308	1	OFF-ON-ON SWITCH, (work lights)	
13	10837309	1	ACTUATOR SWITCH	
14	10837141	6	STUD, 3/8-16X1	
15	10837142	6	FERRULE, 3/8-16	
16	10701404	9	FLAT WASHER, 3/8	
17	10701310	5	LOCKWASHER, 3/8	
18	10701508	5	HEX NUT, 3/8-16	
19	10720496	10	TIE WRAP	
20	0641608	3	HEX HD CAPSCREW, 3/8-16X1	
21	10717554	9	CLAMP, 3/8	
23	10167013	1	AUX WIRE HARNESS	
24	10165550	1	TRANSFER CARRIAGE WIRE HARNESS	
25	10701306	6	LOCKWASHER, #10	
26	10701400	6	FLAT WASHER, #10	
27	10702054	6	MS SCREW, #10	
28	8305630	4	HEX LOCK NUT, M10X1.5	
29	8307007	2	LOCKWASHER, 1/2	
31	10167871	1	FUSE HOLDER ASSY	

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FIGURE 12-3. WORKLIGHT OPTION INSTALLATION (SN 0160030845 to Present)



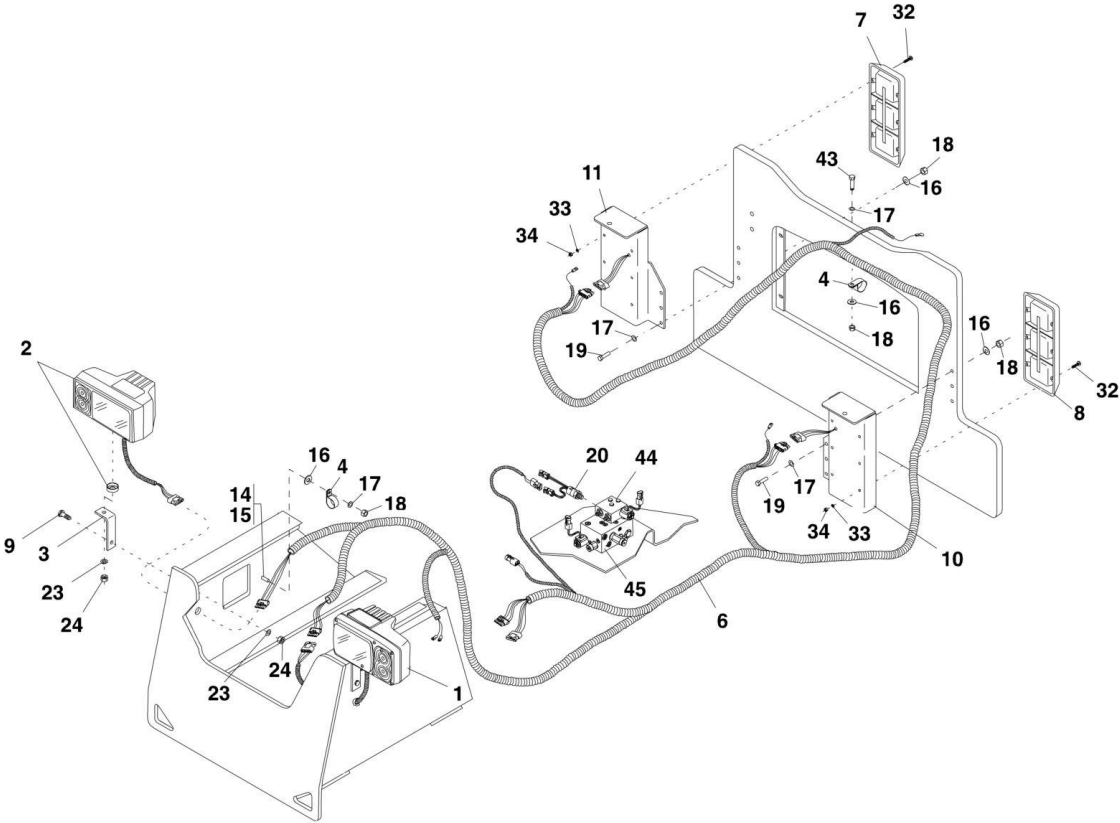
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FIGURE 12-3. WORKLIGHT OPTION INSTALLATION (SN 0160030845 to Present)

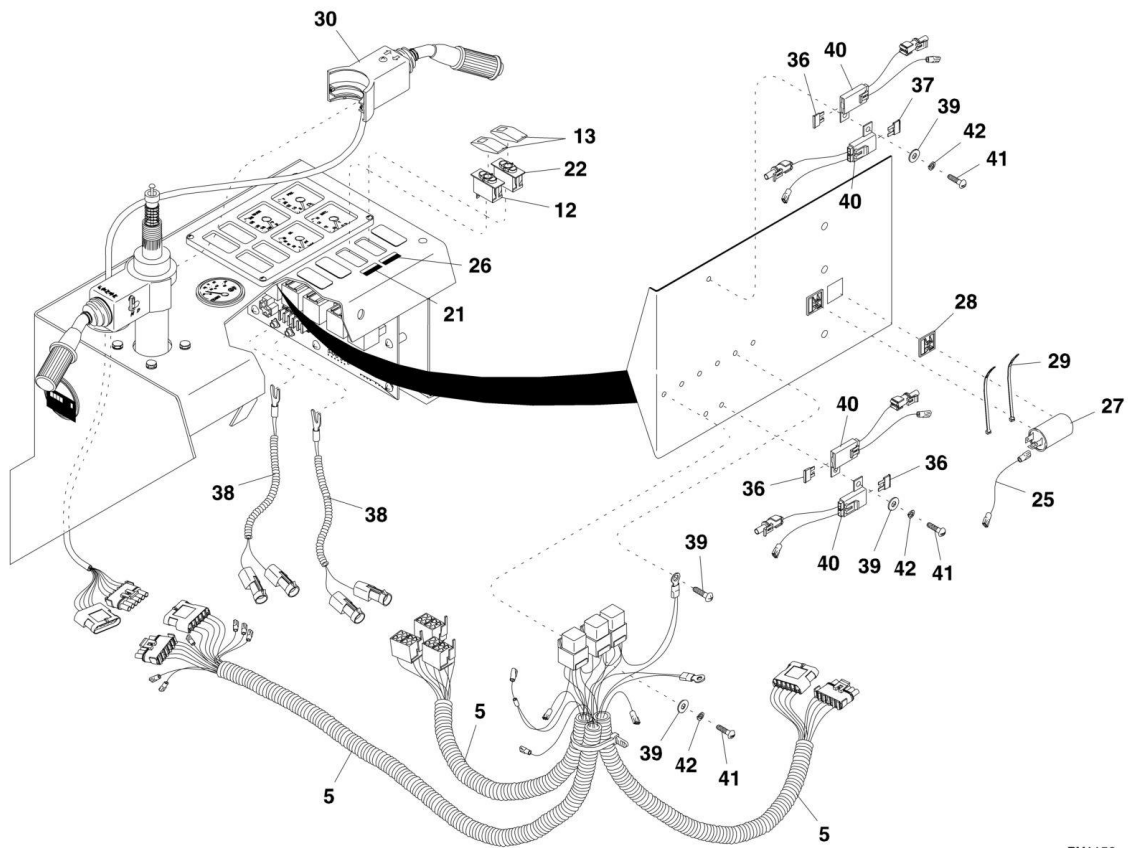
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10567238	Ref	WORKLIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 34 for service)	I
1	10265501	1	REAR WIRE HARNESS	
2	10165536	4	FLOOD LIGHT	
3	10236518	4	LIGHT MOUNT	
4	10837318	4	CLAMP, 3/8	
5	10265500	1	BOOM WIRE HARNESS	
6	10367239	1	UNDER DASH WIRE HARNESS	
7	0641806	2	HEX HD CAPSCREW, 1/2-13X3/4	
8	10138409	1	WORK LIGHTS DECAL	
10	10701312	2	FLAT WASHER, 1/2	
12	10837308	1	ON-OFF SWITCH, (work lights)	
13	10837309	1	ACTUATOR SWITCH	
16	10701404	13	FLAT WASHER, 3/8	
17	10701310	5	LOCKWASHER, 3/8	
18	10701508	5	HEX NUT, 3/8-16	
19	10720496	18	TIE WRAP	
20	0641608	3	HEX HD CAPSCREW, 3/8-16X1	
23	10167013	1	AUX WIRE HARNESS (SN 0160030845 through 0160032760)	
24	10165550	1	TRANSFER CARRIAGE WIRE HARNESS	
25	10701306	2	LOCKWASHER, #10	
26	10701400	2	FLAT WASHER, #10	
27	10702054	2	MS SCREW, #10	
28	8305630	4	HEX LOCK NUT, M10X1.5	
29	8307007	2	LOCKWASHER, 1/2	
31	10167871	1	FUSE HOLDER ASSY	
33	0641616	4	HEX HD CAPSCREW, 3/8-16X2	
34	8229235	1	FUSE, 20 AMP, (yellow) (SN 0160032761 to Present)	
	1001097106	Ref	ELECTRICAL HARNESS ASSY, (not available to order, see items 101 thru 107 for service) (SN 0160032761 to Present)	A
101	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4	
102	3271405	2	HEX LOCKNUT, 1/4-20, GR8	
103	3740067	1	RELAY, SOLENOID	
104	4711400	2	WASHER, 1/4	
105	4791400	2	STAR WASHER, 1/4	
106		Ref	ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
107	1001097134	1	FUSED HARNESS, (includes items 201 thru 205)	B
201	4461034	1	TERMINAL, 2 POSITION, CONNECTOR	
202	4461035	1	TERMINAL, 2 POSITION, HOUSING	
203	4461037	2	WIRE SEAL, (not shown)	
204	4461038	2	SPADE, (not shown)	
205	1001097129	1	60 AMP FUSE	

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FIGURE 12-4. ROADWAY LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)



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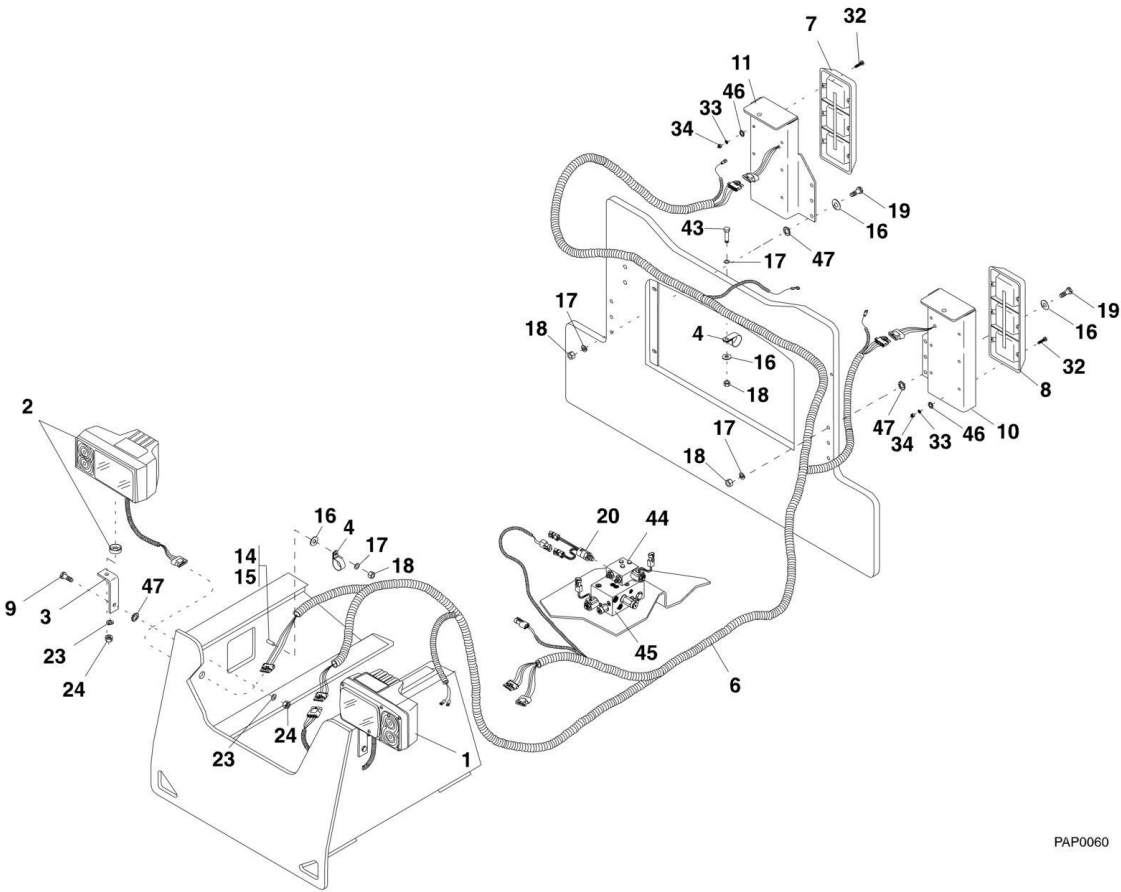
SECTION 12 - OPTIONS

FIGURE 12-4. ROADWAY LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1101844	Ref	ROADWAY LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 43 for service)	AC
1	1001141639	1	LH HEAD LIGHT/TURN SIGNAL	
2	1001141640	1	RH HEAD LIGHT/TURN SIGNAL	
3	10236518	2	LIGHT MOUNT	
4	10717554	7	CLAMP, 3/8 (SN 0160009654 through 0160030559, Including 0160008714)	
4	10837465	4	CLAMP, 5/8 (SN 0160030560 to Present)	
5	1101845	1	UNDER DASH WIRE HARNESS	
6	1101853	1	LIGHTS WIRE HARNESS	
7	10338454	1	RH BRAKE LIGHT/TURN SIGNAL	
8	10338456	1	LH BRAKE LIGHT/TURN SIGNAL	
9	10700404	2	HEX HD CAPSCREW, 1/2-13X1-1/2	
10	10239083	1	LH TAIL LIGHT MOUNT	
11	10239088	1	RH TAIL LIGHT MOUNT	
12	10837308	1	OFF-ON-ON SWITCH, (roadway lights)	
13	10837309	2	SWITCH ACTUATOR	
14	10837141	3	STUD, 3/8-16X1	
15	10837142	3	FERRULE, 3/8-16	
16	10701404	10	FLAT WASHER, 3/8	
17	10701310	10	LOCKWASHER, 3/8	
18	10701508	10	HEX NUT, 3/8-16	
19	0641616	6	HEX HD CAPSCREW, 3/8-16X1-7/8	
20	10167062	1	BRAKE LIGHT SWITCH	
21	10138459	1	ROADWAY LIGHT DECAL	
22	10836509	1	ON-OFF SWITCH, (hazard lights)	
23	10701312	2	LOCKWASHER, 1/2	
24	10701510	2	HEX NUT, 1/2-13	
25	103382001	1	JUMPER WIRE	
26	10138460	1	HAZARD LIGHTS DECAL	
27	10719190	1	FLASHER, 12V	
28	10727600	2	TIE WRAP MOUNT	
29	10717989	2	TIE WRAP	
30	1101846	1	MODIFIED TURN SIGNAL SWITCH	
32	10702130	12	ROUND HD SLOTTED SCREW, 1/4-20X3/4	
33	10701308	12	LOCKWASHER, 1/4	
34	10701506	12	HEX NUT, 1/4-20	
36	10730799	3	FUSE, 20 AMP, (yellow)	
37	10730800	1	FUSE, 30 AMP, (green)	
38	10167870	2	DUAL AUXILIARY POWER WIRE HARNESS	
39	10701400	6	FLAT WASHER, #10	
40	10167871	4	FUSE HOLDER ASSY	
41	10702054	6	SCREW	
42	10701306	6	LOCKWASHER, #10	
43	0641612	1	HEX HD CAPSCREW, 3/8-16X1-1/2	
44		Ref	BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
45		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

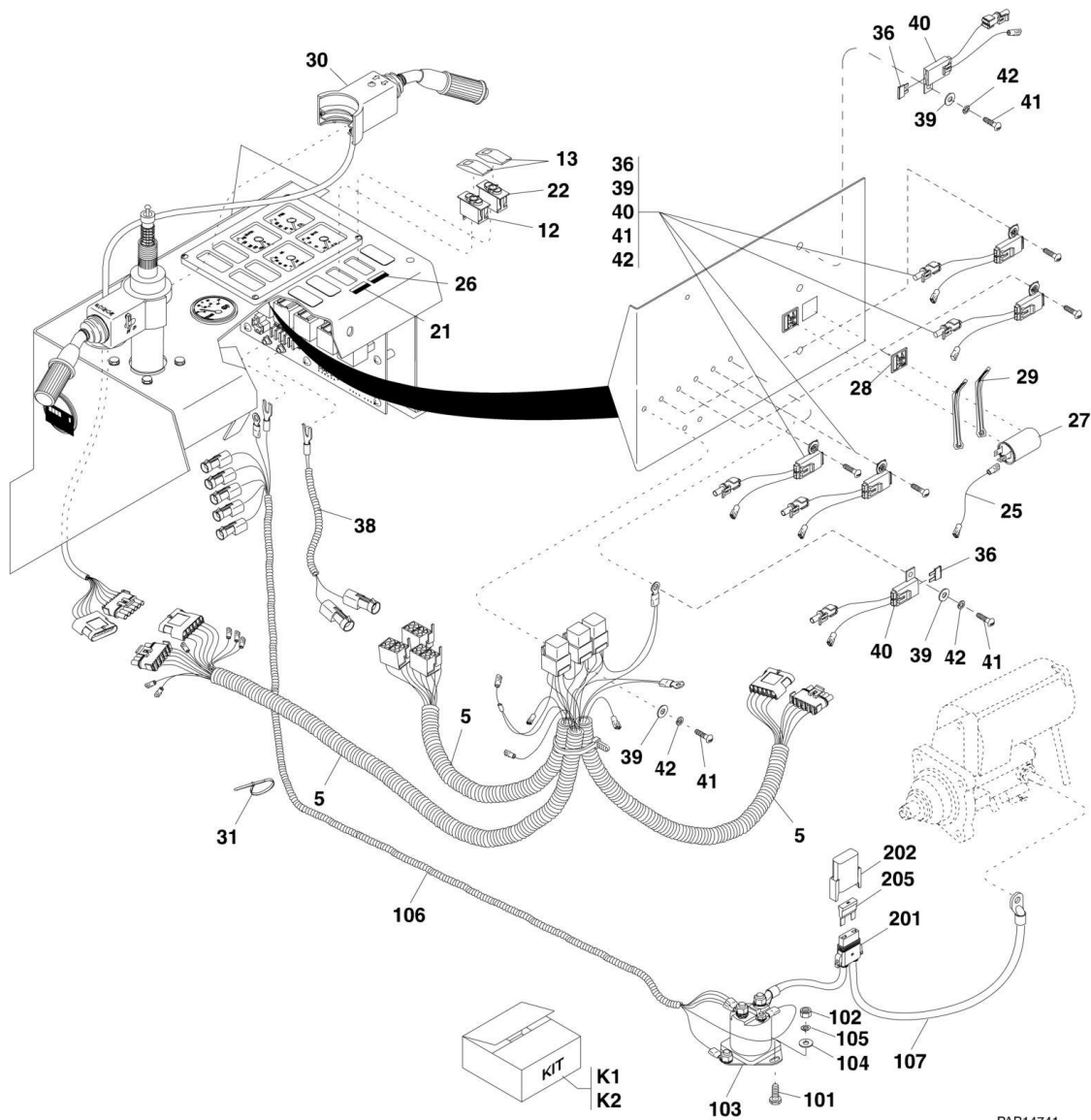
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FIGURE 12-5. ROADWAY LIGHT OPTION INSTALLATION (SN 0160032761 through 0160051139,
Excluding 0160050734 and 0160050735)



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**FIGURE 12-5. ROADWAY LIGHT OPTION INSTALLATION (SN 0160032761 through 0160051139,
Excluding 0160050734 and 0160050735)**

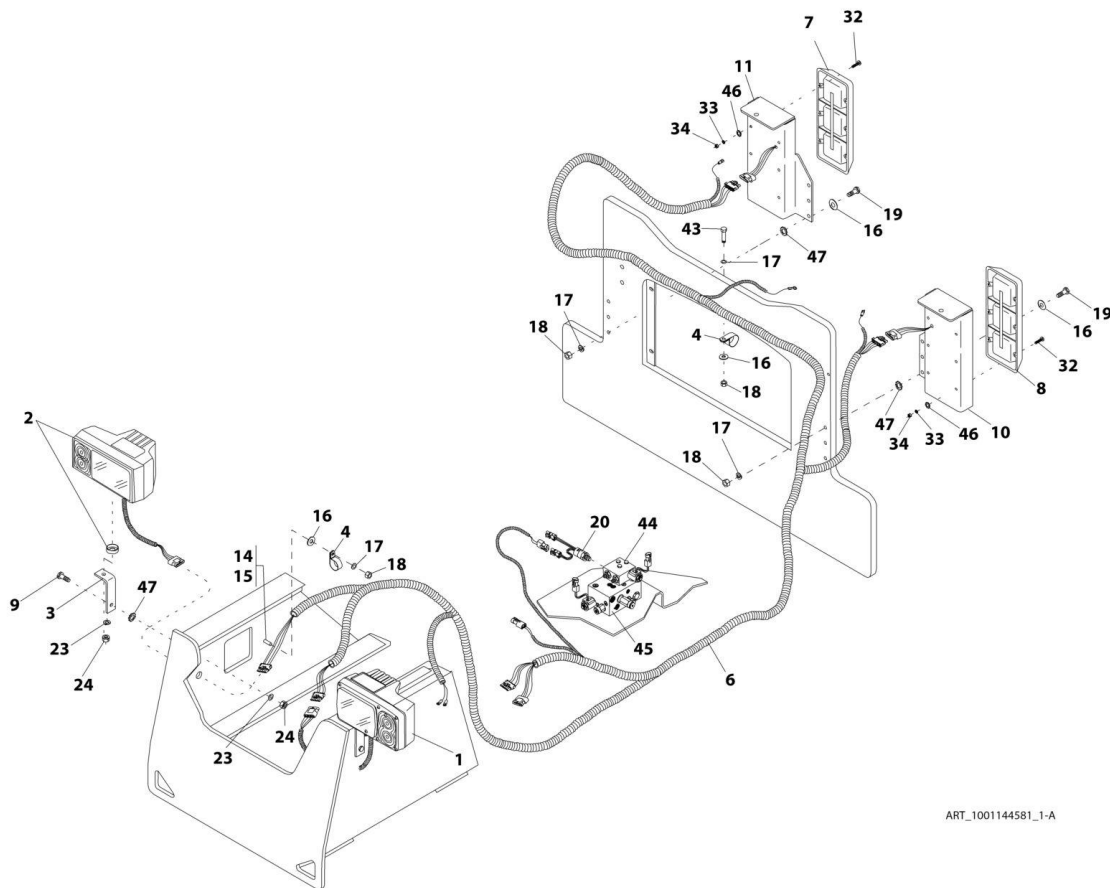
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1101844	Ref	ROADWAY LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 43 for service)	J
1	1001141597	1	LH HEAD LIGHT/TURN SIGNAL	
2	1001141598	1	RH HEAD LIGHT/TURN SIGNAL	
3	10236518	2	LIGHT MOUNT	
4	10837465	4	CLAMP, 5/8	
5	1001097169	1	UNDER DASH WIRE HARNESS	
6	1001097385	1	LIGHTS WIRE HARNESS	
7	10338454	1	RH BRAKE LIGHT/TURN SIGNAL	
8	10338456	1	LH BRAKE LIGHT/TURN SIGNAL	
9	10700404	2	HEX HD CAPSCREW, 1/2-13X1-1/2	
10	10239083	1	LH TAIL LIGHT MOUNT	
11	10239088	1	RH TAIL LIGHT MOUNT	
12	10837308	1	ON-OFF SWITCH, (roadway lights)	
13	10837309	2	SWITCH ACTUATOR	
14	10837141	3	STUD, 3/8-16X1	
15	10837142	3	FERRULE, 3/8-16	
16	10701404	10	FLAT WASHER, 3/8	
17	10701310	10	LOCKWASHER, 3/8	
18	10701508	10	HEX NUT, 3/8-16	
19	0641616	6	HEX HD CAPSCREW, 3/8-16X1-7/8	
20	10167062	1	BRAKE LIGHT SWITCH	
21	10138459	1	ROADWAY LIGHT DECAL	
22	10836509	1	ON-OFF SWITCH, (hazard lights)	
23	10701312	2	LOCKWASHER, 1/2	
24	10701510	2	HEX NUT, 1/2-13	
25	103382001	1	JUMPER WIRE	
26	10138460	1	HAZARD LIGHTS DECAL	
27	10719190	1	FLASHER, 12V	
28	10727600	2	TIE WRAP MOUNT	
29	10717989	2	TIE WRAP	
30	1101846	1	MODIFIED TURN SIGNAL SWITCH	
31	10720496	30	TIE WRAP	
32	10702130	12	ROUND HD SLOTTED SCREW, 1/4-20X3/4	
33	10701308	12	LOCKWASHER, 1/4	
34	10701506	12	HEX NUT, 1/4-20	
36	10730799	6	FUSE, 20 AMP, (yellow)	
38	10167870	1	DUAL AUXILIARY POWER WIRE HARNESS	
39	10701400	6	FLAT WASHER, #10	
40	10167871	6	FUSE HOLDER ASSY	
41	10702054	6	SCREW	
42	10701306	6	LOCKWASHER, #10	
43	0641612	1	HEX HD CAPSCREW, 3/8-16X1-1/2	
44		Ref	BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
45		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
46	8310002	4	STAR WASHER, 1/4	
47	10701361	8	STAR WASHER, 1/2	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001097106	Ref	ELECTRICAL HARNESS INSTALLATION, (not available to order, see items 101 thru 107 for service)	A
101	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4	
102	3271405	2	HEX LOCKNUT, 1/4-20, GR8	
103	3740067	1	RELAY, SOLENOID	
104	4711400	2	WASHER, 1/4	
105	4791400	2	STAR WASHER, 1/4	
106		Ref	ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
107	1001097134	1	FUSED HARNESS, (includes items 201 thru 205)	B
201	4461034	1	TERMINAL, 2 POSITION, CONNECTOR	
202	4461035	1	TERMINAL, 2 POSITION, HOUSING	
203	4461037	2	WIRE SEAL, (not shown)	
204	4461038	2	SPADE, (not shown)	
205	1001097129	1	60 AMP FUSE	
K1	1001141639	1	LH ROADLIGHT REPLACEMENT KIT, (includes item 1, plug, terminal ring and replacement instructions)	A
K2	1001141640	1	RH ROADLIGHT REPLACEMENT KIT, (includes item 2, plug, terminal ring and replacement instructions)	A

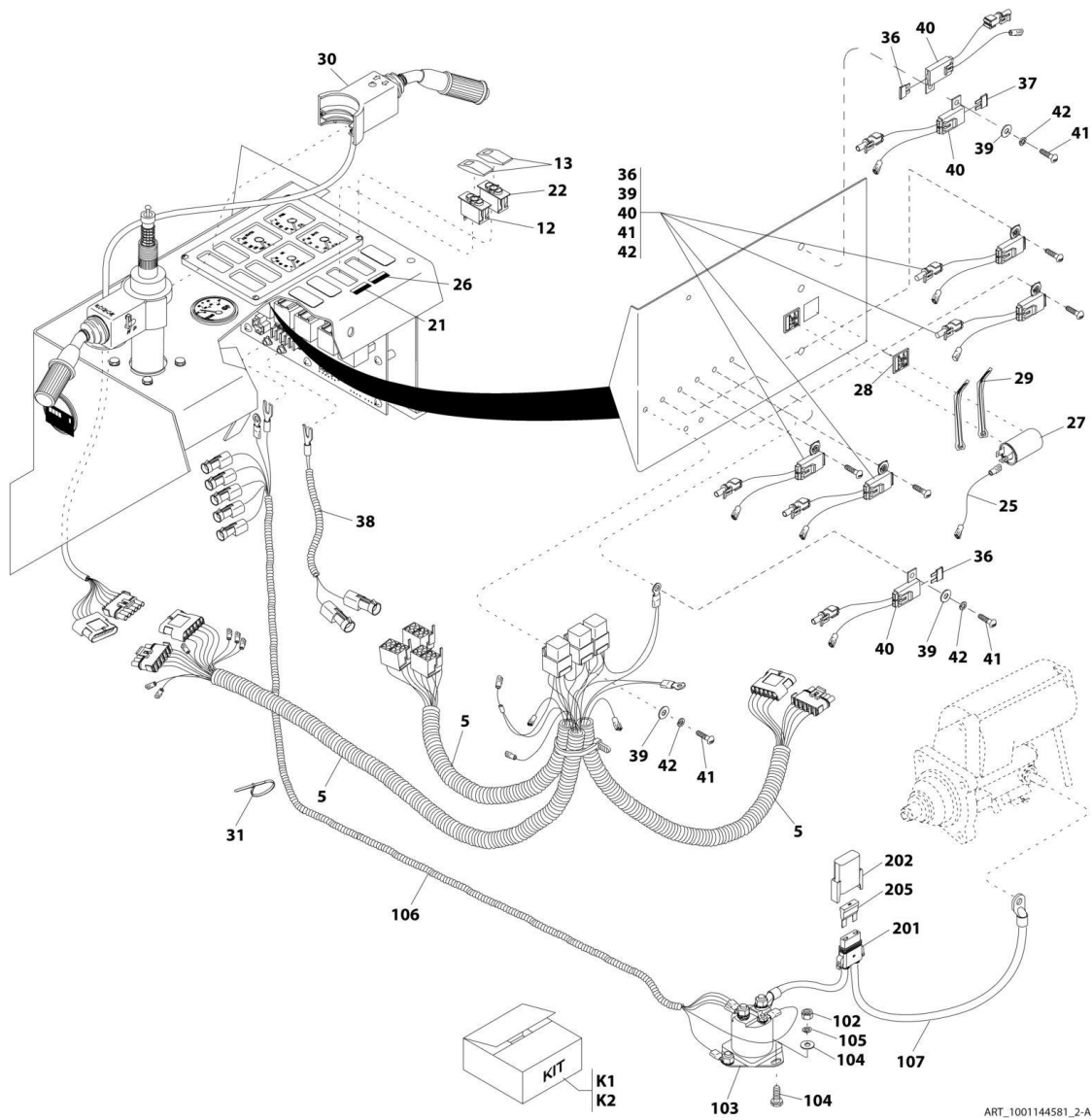
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FIGURE 12-6. ROADWAY LIGHT OPTION INSTALLATION (SN 0160051140 to Present, Including 0160050734 and 0160050735)



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FIGURE 12-6. ROADWAY LIGHT OPTION INSTALLATION (SN 0160051140 to Present, Including 0160050734 and 0160050735)

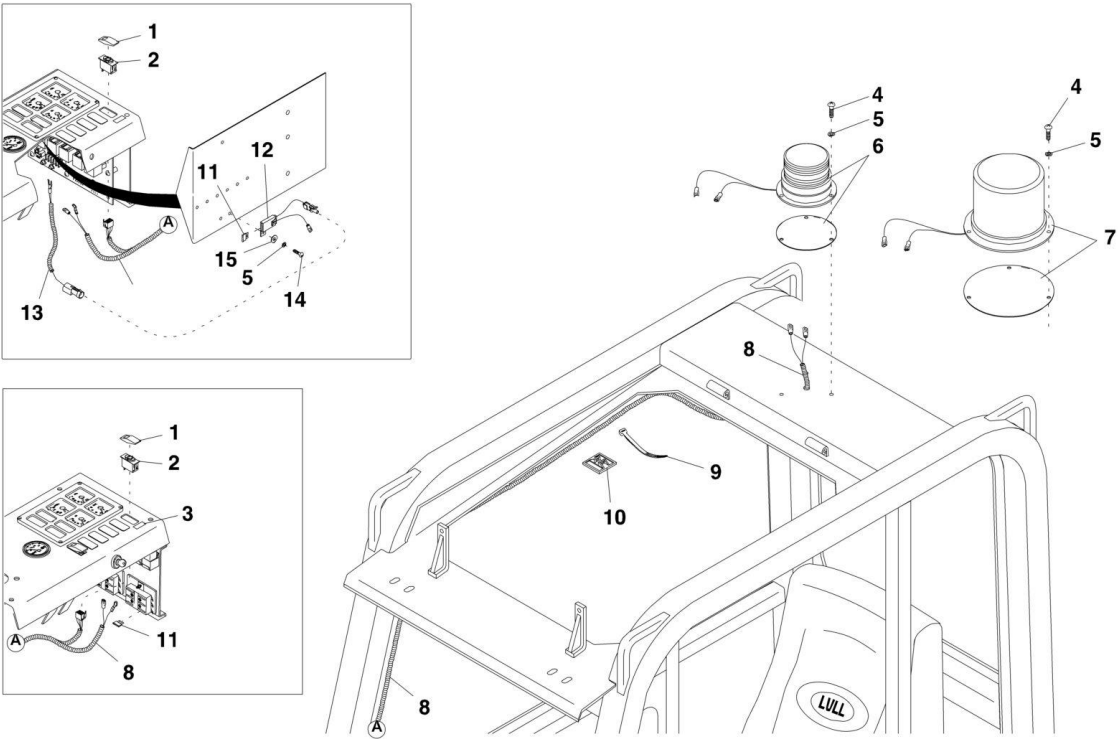
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001144581	Ref	ROADWAY LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 43 for service)	B
1	1001141597	1	LH HEAD LIGHT/TURN SIGNAL	
2	1001141598	1	RH HEAD LIGHT/TURN SIGNAL	
3	10236518	2	LIGHT MOUNT	
4	10837465	4	CLAMP, 5/8	
5	1001097169	1	UNDER DASH WIRE HARNESS	
6	1001097385	1	LIGHTS WIRE HARNESS	
7	10338454	1	RH BRAKE LIGHT/TURN SIGNAL	
8	10338456	1	LH BRAKE LIGHT/TURN SIGNAL	
9	10700404	2	HEX HD CAPSCREW, 1/2-13X1-1/2	
10	10239083	1	LH TAIL LIGHT MOUNT	
11	10239088	1	RH TAIL LIGHT MOUNT	
12	10837308	1	ON-OFF SWITCH, (roadway lights)	
13	10837309	2	SWITCH ACTUATOR	
14	10837141	3	STUD, 3/8-16X1	
15	10837142	3	FERRULE, 3/8-16	
16	10701404	10	FLAT WASHER, 3/8	
17	10701310	10	LOCKWASHER, 3/8	
18	10701508	10	HEX NUT, 3/8-16	
19	0641616	6	HEX HD CAPSCREW, 3/8-16X1-7/8	
20	1001114966	1	BRAKE LIGHT SWITCH	
21	10138459	1	ROADWAY LIGHT DECAL	
22	10836509	1	ON-OFF SWITCH, (hazard lights)	
23	10701312	2	LOCKWASHER, 1/2	
24	10701510	2	HEX NUT, 1/2-13	
25	103382001	1	JUMPER WIRE	
26	10138460	1	HAZARD LIGHTS DECAL	
27	10719190	1	FLASHER, 12V	
28	10727600	2	TIE WRAP MOUNT	
29	10717989	2	TIE WRAP	
30	1101846	1	MODIFIED TURN SIGNAL SWITCH	
31	10720496	30	TIE WRAP	
32	10702130	12	ROUND HD SLOTTED SCREW, 1/4-20X3/4	
33	10701308	12	LOCKWASHER, 1/4	
34	10701506	12	HEX NUT, 1/4-20	
36	10730799	6	FUSE, 20 AMP, (yellow)	
37	10730800	1	FUSE, 30 AMP, (Green)	
38	10167870	1	DUAL AUXILIARY POWER WIRE HARNESS	
39	10701400	6	FLAT WASHER, #10	
40	10167871	6	FUSE HOLDER ASSY	
41	10702054	6	SCREW	
42	10701306	6	LOCKWASHER, #10	
43	0641612	1	HEX HD CAPSCREW, 3/8-16X1-1/2	
44		Ref	BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
45		Ref	REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
46	8310002	4	STAR WASHER, 1/4	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	10701361	8	STAR WASHER,1/2	A
	1001097106	Ref	ELECTRICAL HARNESS INSTALLATION, (not available to order, see items 101 thru 107 for service)	
101	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4	
102	3271405	2	HEX LOCKNUT, 1/4-20, GR8	
103	3740067	1	RELAY, SOLENOID	
104	4711400	2	WASHER, 1/4	
105	4791400	2	STAR WASHER, 1/4	
106		Ref	ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)	B
107	1001097134	1	FUSED HARNESS, (includes items 201 thru 205)	
201	4461034	1	TERMINAL, 2 POSITION, CONNECTOR	
202	4461035	1	TERMINAL, 2 POSITION, HOUSING	
203	4461037	2	WIRE SEAL, (not shown)	
204	4461038	2	SPADE, (not shown)	
205	1001097129	1	60 AMP FUSE	
K1	1001141639	1	LH ROADLIGHT REPLACEMENT KIT, (includes item 1, plug, terminal ring and replacement instructions)	A
K2	1001141640	1	RH ROADLIGHT REPLACEMENT KIT, (includes item 2, plug, terminal ring and replacement instructions)	A

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FIGURE 12-7. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)



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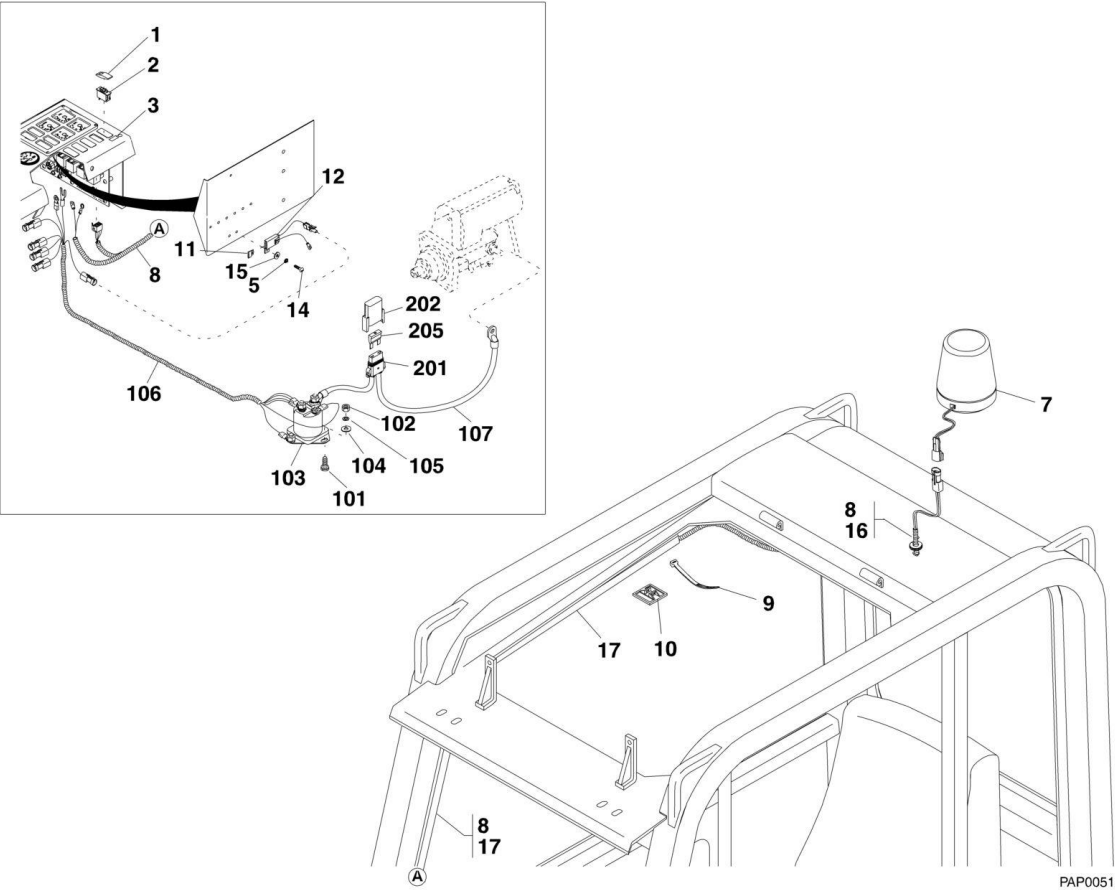
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FIGURE 12-7. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10268727	Ref	STROBE LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 15 for service)	AA
	10268728	Ref	ROTATING BEACON LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 15 for service)	AA
1	10837309	1	SWITCH ACTUATOR	
2	10836509	1	ON-OFF SWITCH, (beacon/strobe light)	
3	10139648	1	BEACON LIGHT DECAL, (10268728 only)	
3	10138377	1	STROBE LIGHT DECAL, (10268727 only)	
4	10702082	3	ROUND HD SLOTTED SCREW, #10-32X3/4	
5	10701306	7	LOCKWASHER, #10	
6	10238353	1	LIGHT STROBE, AMBER	
7	10239647	1	ROTATING BEACON LIGHT, AMBER	
8	10238356	1	WIRE HARNESS	
9	10717989	4	TIE WRAP	
10	10727600	4	TIE WRAP MOUNT	
11	10730797	1	FUSE, 10 AMP, (red), (10268727 only)	
11	10730798	1	FUSE, 15 AMP, (blue), (10268728 only)	
12	10167871	1	FUSE HOLDER ASSY	
13	10167013	1	AUXILIARY POWER WIRE HARNESS	
14	10702054	2	ROUND HD SLOTTED SCREW, #10-24X1/2	
15	10701400	2	FLAT WASHER, #10	

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FIGURE 12-8. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160032761 to Present)



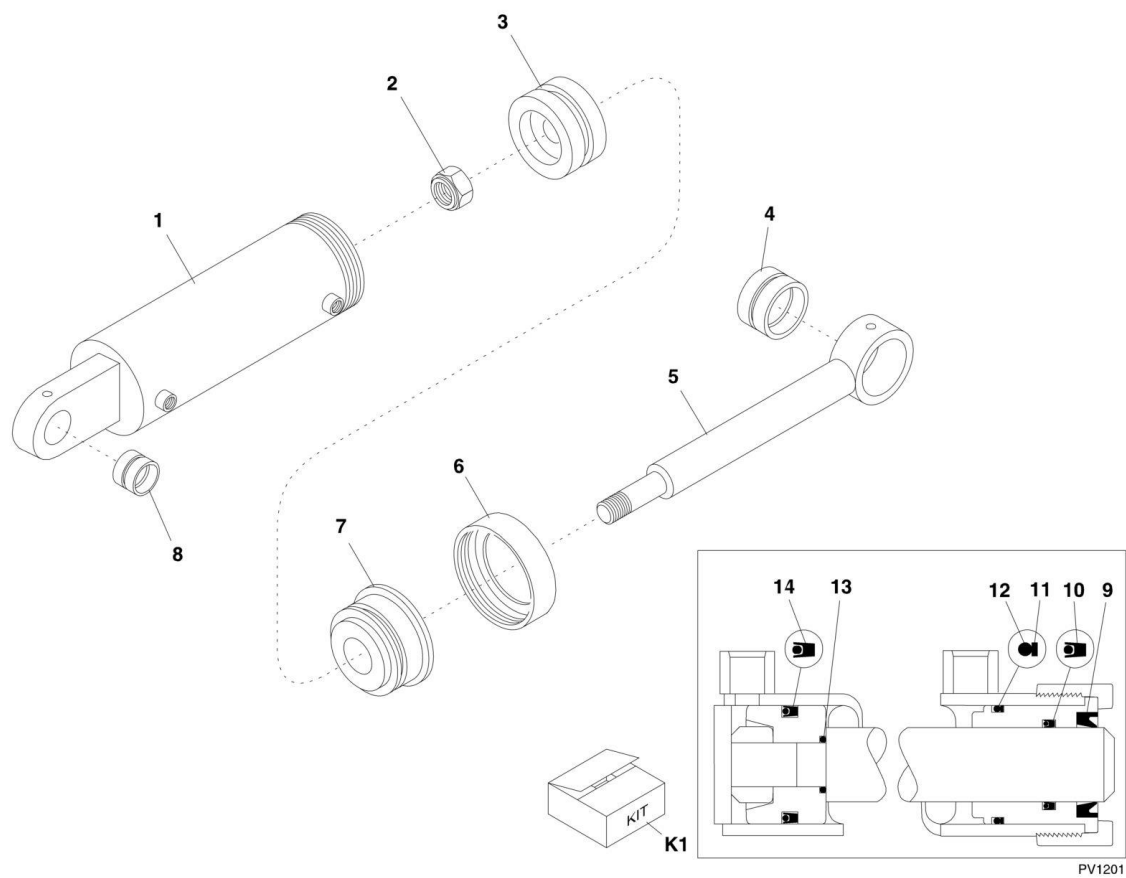
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FIGURE 12-8. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160032761 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10268727	Ref	STROBE LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 17 for service)	AA
	10268728	Ref	ROTATING BEACON LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 17 for service)	D
1	10837309	1	SWITCH ACTUATOR	
2	10836509	1	ON-OFF SWITCH, (beacon/strobe light)	
3	10139648	1	BEACON LIGHT DECAL, (10268728 only)	
3	10138377	1	STROBE LIGHT DECAL, (10268727 only)	
5	10701306	2	LOCKWASHER, #10	
7	8500066	1	ROTATING BEACON LIGHT, AMBER	
8	1001097623	1	WIRE HARNESS	
9	10717989	10	TIE WRAP	
10	10727600	4	TIE WRAP MOUNT	
11	10730797	1	FUSE, 10 AMP, (red), (10268727 only)	
11	10730798	1	FUSE, 15 AMP, (blue), (10268728 only)	
12	10167871	1	FUSE HOLDER ASSY	
14	10702054	2	ROUND HD SLOTTED SCREW, #10-24X1/2	
15	10701400	2	FLAT WASHER, #10	
16	8526035	AR	SEALANT	
17	8096D097	4.6 ft	DUCT, WIRING	
	1001097106	Ref	ELECTRICAL HARNESS INSTALLATION, (not available to order, see items 101 thru 107 for service)	A
101	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4	
102	3271405	2	HEX LOCKNUT, 1/4-20, GR8	
103	3740067	1	RELAY, SOLENOID	
104	4711400	2	WASHER, 1/4	
105	4791400	2	STAR WASHER, 1/4	
106		Ref	ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
107	1001097134	1	FUSED HARNESS, (includes items 201 thru 205)	
201	4461034	1	TERMINAL, 2 POSITION, CONNECTOR	
202	4461035	1	TERMINAL, 2 POSITION, HOUSING	
203	4461037	2	WIRE SEAL, (not shown)	
204	4461038	2	SPADE, (not shown)	
205	1001097129	1	60 AMP FUSE	

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FIGURE 12-9. TILTING CARRIAGE CYLINDER



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FIGURE 12-9. TILTING CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10266218	1	TILTING CARRIAGE CYLINDER, (includes all items)	AB
1	10836752	1	BARREL WELDMENT	
2	10719217	1	LOCKNUT	
3	10837051	1	PISTON	
4	10116228	1	BUSHING	
5	10725297	1	ROD WELDMENT	
6	10723778	1	RETAINER, ROD BEARING	
7	10723788	1	ROD BEARING	
8	10116227	1	BUSHING	
9	Kit	1	WIPER	
10	Kit	1	SEAL	
11	Kit	1	BACK UP RING	
12	Kit	1	O-RING	
13	Kit	1	O-RING	
14	Kit	1	PISTON SEAL	
K1	10837050	1	SEAL KIT, (includes items 9 thru 14)	

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FIGURE 12-10. TOWER CYLINDER

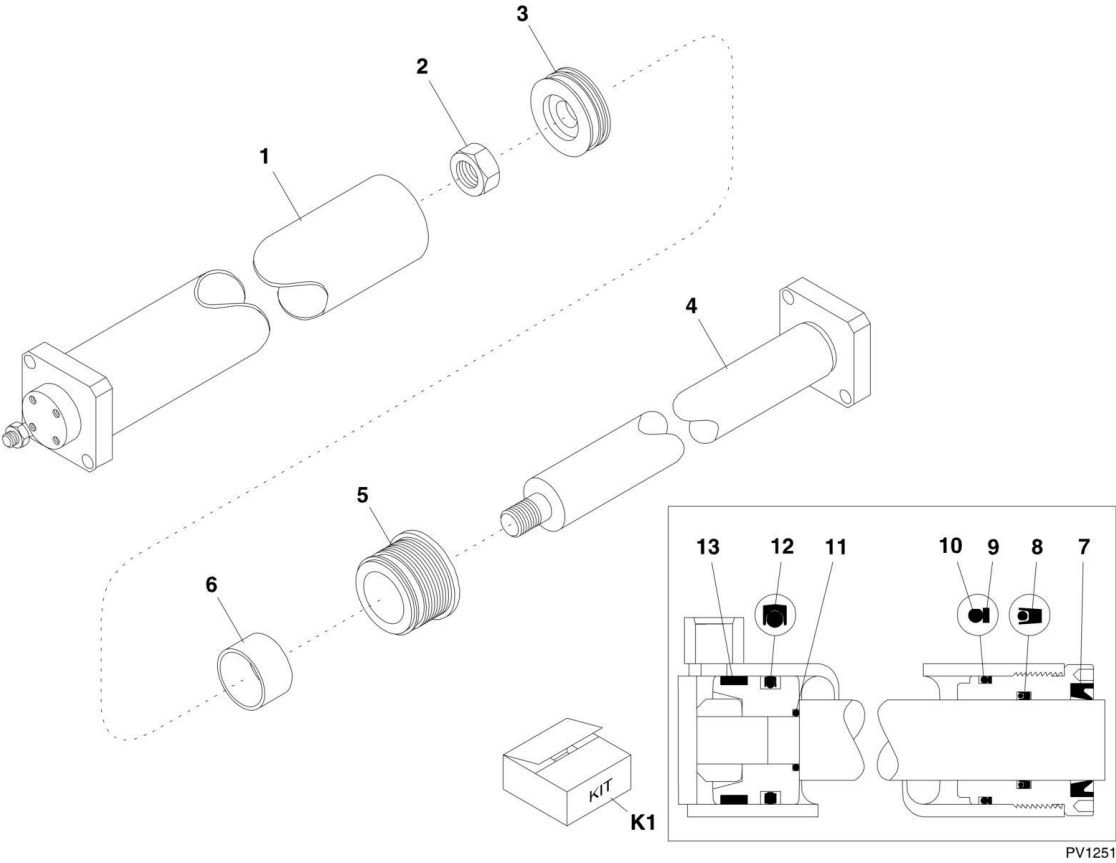
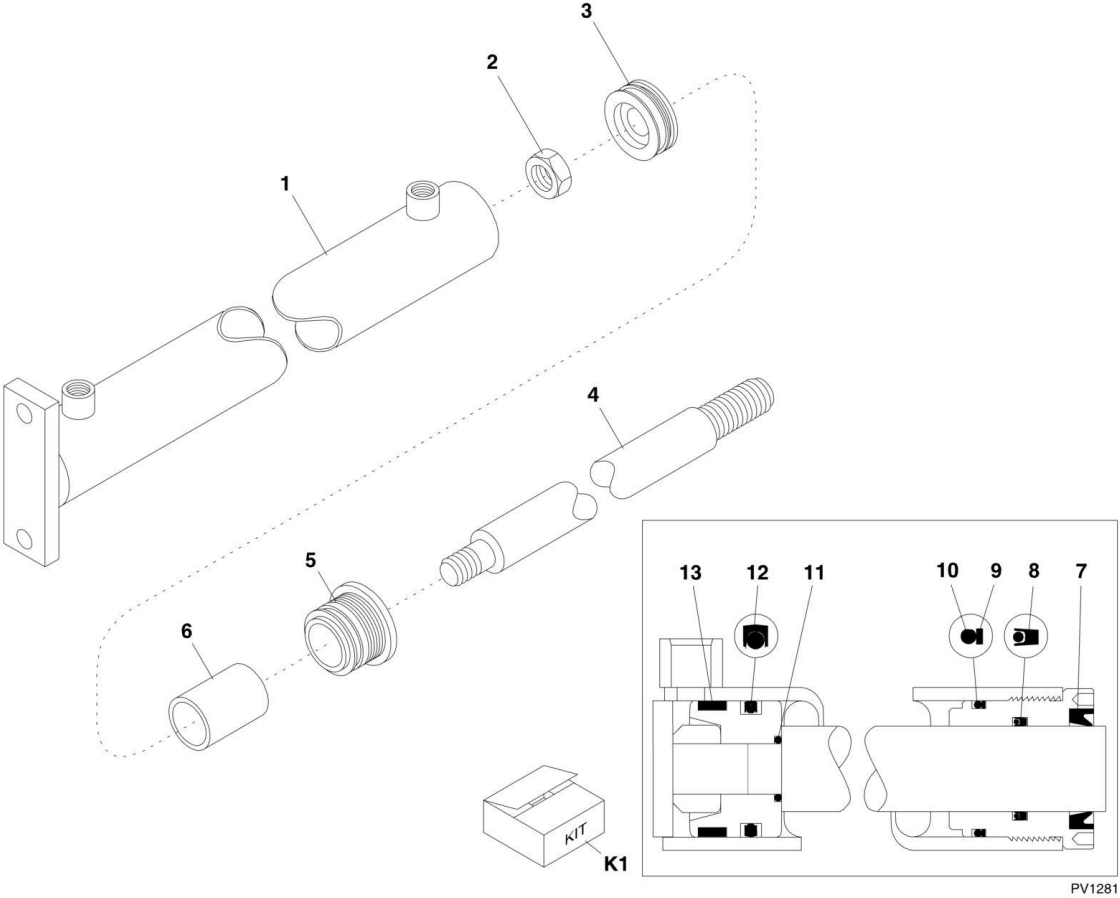


FIGURE 12-10. TOWER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10234833	1	TOWER CYLINDER, (includes all items)	B
1	10732242	1	BARREL WELDMENT	
2	10719217	1	LOCKNUT	
3	10733799	1	PISTON	
4	10732321	1	ROD WELDMENT	
5	10732332	1	END GLAND	
6	10732343	1	STROKE BLOCK	
7	Kit	1	WIPER	
8	Kit	1	SEAL	
9	Kit	1	BACK-UP RING	
10	Kit	1	O-RING	
11	Kit	1	O-RING	
12	Kit	1	PISTON SEAL	
13	Kit	1	WEAR RING	
K1	10732311	1	SEAL KIT, (includes items 7 thru 13)	

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FIGURE 12-11. FORK POSITIONING CYLINDER



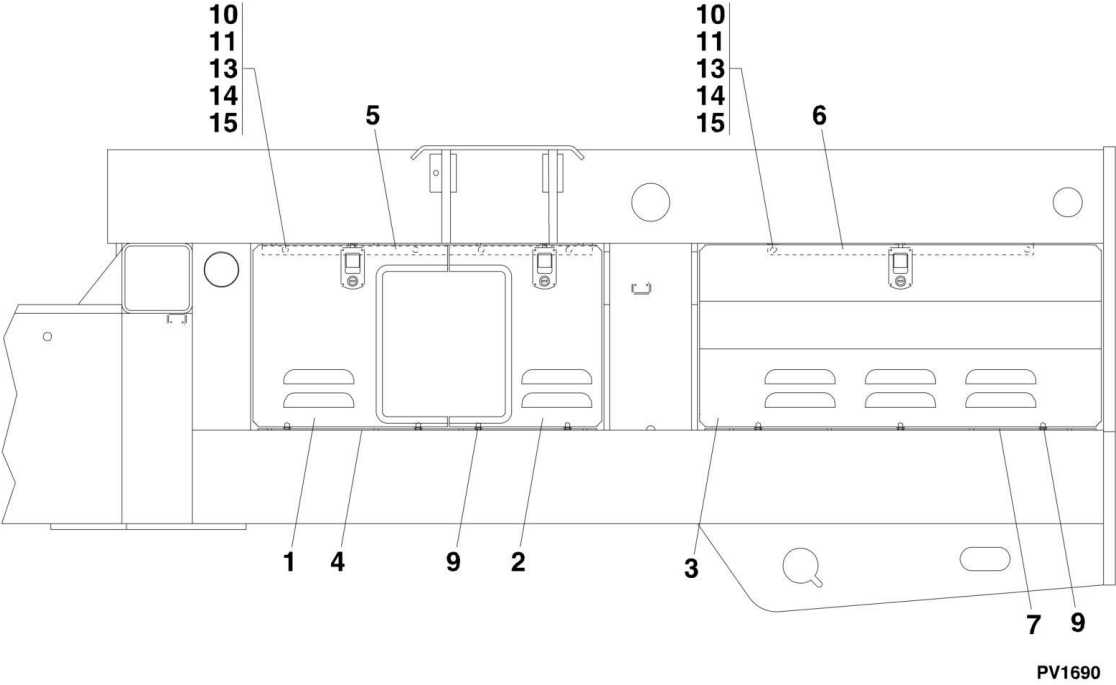
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FIGURE 12-11. FORK POSITIONING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10238500	2	FORK POSITIONING CYLINDER, (includes all items)	AA
1	10732238	1	BARREL WELDMENT	
2	10725290	1	LOCKNUT	
3	10732360	1	PISTON	
4	10732355	1	ROD WELDMENT	
5	10732356	1	END GLAND	
6	10732340	1	STROKE BLOCK	
7	Kit	1	WIPER	
8	Kit	1	SEAL	
9	Kit	1	BACK-UP RING	
10	Kit	1	O-RING	
11	Kit	1	O-RING	
12	Kit	1	PISTON SEAL	
13	Kit	1	WEAR RING	
K1	10732371	1	SEAL KIT, (includes items 7 thru 13)	
N1	Note	Ref	NOTE: QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY	

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FIGURE 12-12. LOCKABLE ENGINE SIDE PANELS INSTALLATION



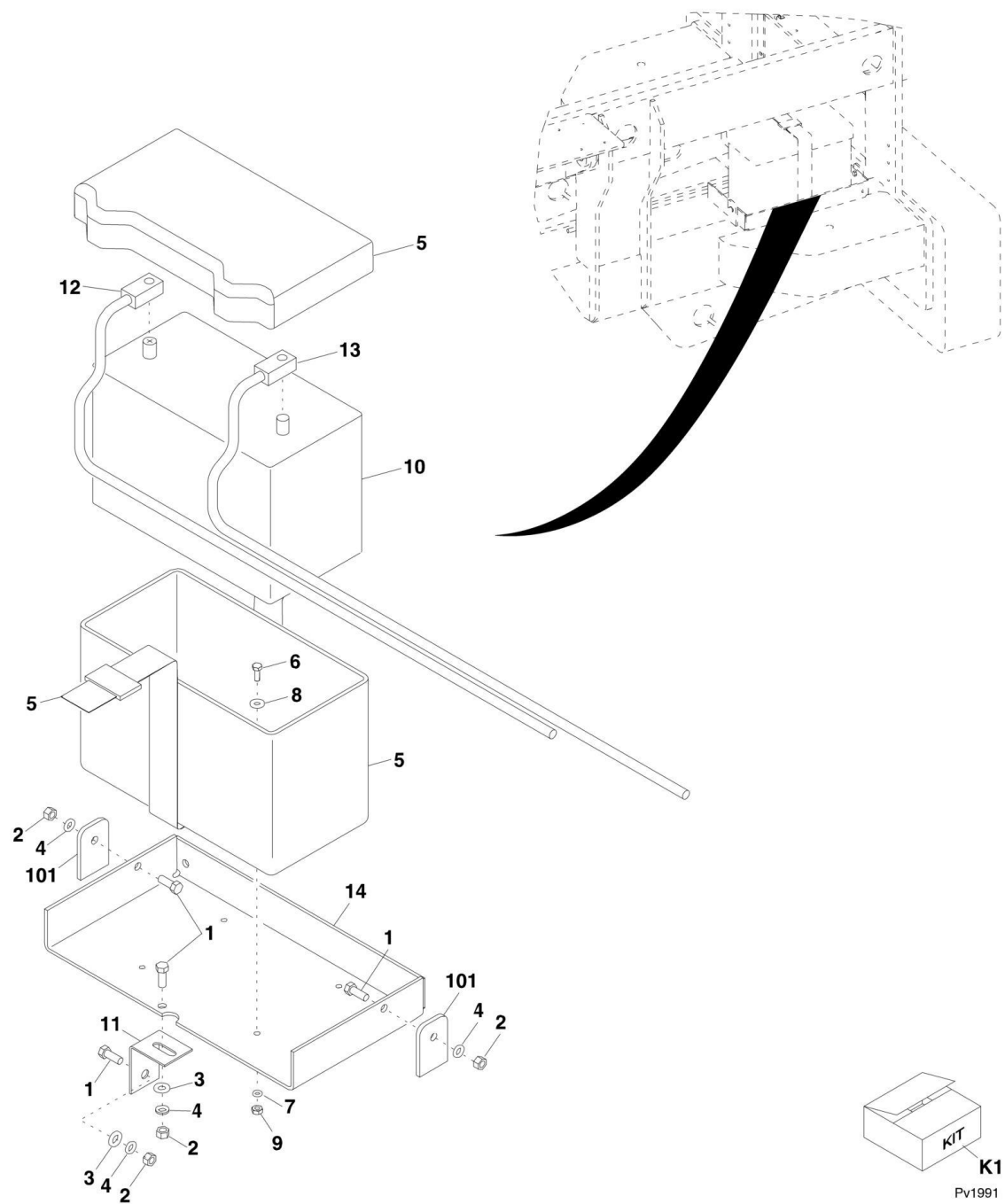
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FIGURE 12-12. LOCKABLE ENGINE SIDE PANELS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10467043	Ref	LOCKABLE ENGINE PANELS INSTALLATION, (not available to order, see items 1 thru 15 for service)	AB
1	10267044	1	SIDE COVER, (front side of cylinder)	
2	10267049	1	SIDE COVER, (rear end of cylinder)	
3	10338951	3	SIDE COVER, (left rear and right side)	
4	10267051	1	PIN WELDMENT PLATE, (front left)	
5	10267053	1	UPPER MOUNTING STRIP, (front left)	
6	10239714	3	UPPER MOUNTING STRIP	
7	10239113	3	PIN WELDMENT PLATE	
9	10837386	13	RUBBER CUSHION AND SEALING WASHER	
10	10837553	10	RUBBER BUMPERS	
11	10837552	10	DRILL JIG BUSHINGS	
13	10702003	10	SLOTTED ROUND HD MACHINE SCREW	
14	10701500	10	NUT	
15	10701302	10	LOCKWASHER	

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FIGURE 12-13. BATTERY COLD START INSTALLATION



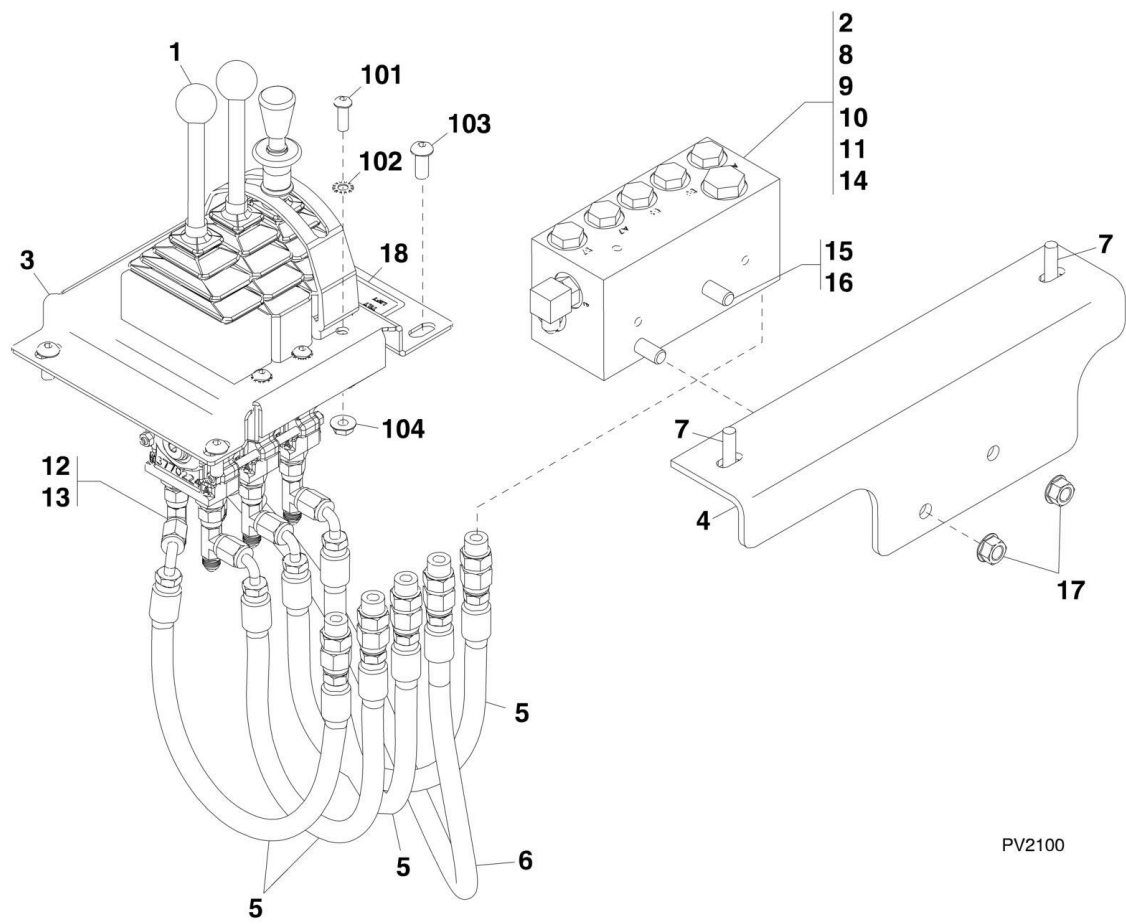
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FIGURE 12-13. BATTERY COLD START INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001094494	Ref	BATTERY COLD START INSTALLATION, (not available to order, see items 1 thru 15 for service)	B
1	0681608	4	HEX HD CAPSCREW, 3/8-16X1	
2	3271601	4	HEX NUT, 3/8-16	
3	4711600	2	WASHER, 3/8	
4	4761600	4	LOCKWASHER, 3/8	
5	10266935	1	BATTERY BOX, (includes cover and strap)	
6	10700003	4	HEX HD CAPSCREW, 1/4-20X3/4	
7	10701308	4	LOCKWASHER, 1/4	
8	10701402	4	FLAT WASHER, 1/4	
9	10701506	4	HEX NUT, 1/4-20	
10	10740075	1	12V BATTERY	
11	1001094493	1	ANGLE, BATTERY TRAY SUPPORT	
12	10135646	1	POSITIVE BATTERY CABLE	
13	10165724	1	NEGATIVE BATTERY CABLE	
14	1001094682	1	TRAY, BATTERY BOX	
15	1001116024	1	ECU JUMPER HARNESS, (not shown)	
101	1001094492	2	TAB, BATTERY TRAP MOUNT	
K1	1001094491	Ref	BATTERY COLD START KIT, (includes items 1 thru 15 & 101)	B

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FIGURE 12-14. FRAME LEVEL AND OUTRIGGER JOYSTICK REPAIR KIT (Prior to SN 0160048698)



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FIGURE 12-14. FRAME LEVEL AND OUTRIGGER JOYSTICK REPAIR KIT (Prior to SN 0160048698)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001144067	1	FRAME LEVEL AND OUTRIGGER JOYSTICK REPAIR KIT, (includes items 1 thru 19)	A
1		Ref	FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY, (See CONTROLS SECTION for Breakdown)	
2		Ref	SHUTTLE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	1001142506	1	BRACKET	
4		Ref	BRACKET, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
5		Ref	HOSE ASSEMBLY, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
6		Ref	HOSE ASSEMBLY, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
7		Ref	HEX HD CAPSCREW, 5/16-18X1-1/8, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
8		Ref	PLUG, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
9		Ref	STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
10		Ref	ADAPTER, 90, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
11		Ref	ADAPTER, 90, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
12		Ref	STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
13		Ref	TEE FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
14		Ref	STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
15		Ref	HEX HD CAPSCREW, 3/8-16X3-1/4, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
16		Ref	WASHER, 3/8, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
17		Ref	FLANGE HEX NUT, 3/8-16, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
18		Ref	FRAME TILT DECAL, (See DECALS SECTION for Breakdown)	
19	31200826	1	KIT INSTRUCTIONS, (not shown)	
101	10703196	6	BUTTON HD CAPSCREW, 1/4-20X3/4	
102	10701357	6	STAR WASHER, 1/4	
103	3900210	4	BUTTON HD CAPSCREW, 5/16-18X3/4	
104	8310382	6	NUT, 1/4	

SECTION 13 - RECOMMENDED SPARE PARTS

SECTION 13 - RECOMMENDED SPARE PARTS

FIGURE 13-1. RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: 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 JLG dealer or the JLG Industries Parts Department.	
		Ref	Boom	
	10837289	2	Tilt Cylinder Hose (Prior to SN 0160037900, Excluding 0160037855)	
	10837289	1	Tilt Cylinder Hose (SN 0160037900 to Present, Including 0160037855)	
	10837289	1	Tilt Cylinder Hose, (Second Aux) (SN 0160037900 to Present, Including 0160037855)	
	10868104	2	Auxiliary Hose (Prior to SN 0160037900, Excluding 0160037855)	
	1001099891	2	Auxiliary Hose (SN 0160037900 to Present, Including 0160037855)	
	1001099891	1	Auxiliary Hose , (Second Aux) (SN 0160037900 to Present, Including 0160037855)	
	10139023	22	Boom Slide Pad, 9/16X2	
	10139530	4	Boom Slide Pad, 1X3	
	10139594	6	Boom Slide Pad, 3/4X3	
	10139604	2	Boom Slide Pad, 7/16X2	
	10139863	2	Bottom Slide Pad	
	10136329	AR	Shim, 0.060X2	
	10138770	AR	Shim, 0.060X3	
	10167059	1	Quick Attach Release Rod (Prior to SN 0160037900, Excluding 0160037855)	
	1001105440	1	Quick Attach Lock Pin (SN 0160037900 to Present, Including 0160037855)	
		Ref	Engine	
	2915065	1	Engine Filter Kit, 250 Hour (SN 0160009654 through 0160040407)	
	1001128966	1	Engine Filter Kit, 250 Hour (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
	2915066	1	Engine Filter Kit, 1000 Hour (SN 0160009654 through 0160040407)	
	1001128965	1	Engine Filter Kit, 1000 Hour (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
	10712182	1	Fuel Cap	
	10728734	1	Fan (SN 0160009654 through 0160040407)	
	2060045	1	Fan (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
	10700207	1	Fan Spacer (SN 0160009654 through 0160040407)	
	70021491	1	Fan Belt (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)	
	70021807	1	Fan Belt (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
		Ref	Drive Train	
	8223049	1	Selector Transmission Control	
	1319726	1	Transmission Filter	
	1319433	4	Wheel End Bushing	
	7027211	4	Wheel End Seal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	80304173	4	Wheel Hub Seal	
	1319472	8	Wheel Hub Bearing	
	1321155	2	Front Axle Wheel Hub O-Ring	
	1321155	2	Rear Axle Wheel Hub O-Ring	
	8035981	2	Steer Cylinder Seal Kit, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)	
	70021495	2	Steer Cylinder Seal Kit, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)	
	7026911	2	Universal Joint Kit	
	91474035	1	Universal Joint Kit	
		Ref	Hydraulic System	
	10239817	2	Joystick (Prior to SN 0160048698)	
	1001141420	2	Joystick (SN 0160048698 to Present)	
	10732693	2	Joystick Handle Assy (Prior to SN 0160048698)	
	70024556	2	Base Assembly (SN 0160048698 to Present)	
	8036562	1	Front Carriage Tilt Cylinder Seal Kit	
	8036561	2	Rear Carriage Tilt Cylinder Seal Kit	
	8036557	1	Frame Tilt Cylinder Seal Kit	
	7028622	2	Hoist Cylinder Seal Kit	
	8036563	1	Boom Extension Cylinder Seal Kit	
	1102019	1	Transfer Cylinder Seal Kit	
	1102016	2	Outrigger Cylinder Seal Kit	
	8036557	1	Rear Stabilizer Cylinder Seal Kit	
	10266450	1	Pressure Filter Element	
	1100987	1	Inline Filter Element	
	10727810	1	Hydraulic Filter Element	
	10238912	1	Tank Strainer	
	10139022	1	Filler/Breather Cap	
	10727809	1	Fluid Level Sight Gauge	
		Ref	Electrical	
	10723222	1	Engine Water Temp Sender	
	10719472	1	Engine Oil Temp Sender	
	91563122	1	Engine Oil Pressure Switch	
	10723217	1	Engine Oil Pressure Sender	
	10729317	1	Fuel Level Sender	
	8270621	1	Backup Alarm	
	1101202	1	Ignition Switch	
	7026922	1	Alternator (SN 0160009654 through 0160040407)	
	70023287	1	Alternator (SN 0160040413 to Present, Including 0160037824 and 0160038521)	
	7026921	1	Starter (SN 0160009654 through 0160040407)	
	70022640	1	Starter (Prior to SN 0160050882)	
	1001128594	1	Starter (SN 0160050882 to Present)	
	10268663	1	Horn	
		Ref	Miscellaneous	
	1101203	1	Ignition Key	
	8342813	1	Door Key	
	80904003	1	Hydraulic Test Kit	
	31200070	1	Operator and Safety Manual (Prior to SN 0160037900)	
	31200608	1	Operation and Safety Manual (SN 0160037900 to Present)	
	31200079	1	Service Manual	

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31200069



An Oshkosh Corporation Company

Corporate Office
JLG Industries, Inc.
1 JLG Drive
McConnellsburg, PA 17233-9533
USA
☎ +1-717-485-5161 (Corporate)
☎ +1-877-554-5438 (Customer Support Toll Free)
☎ +1-717-485-6417

JLG Worldwide Locations

JLG Industries
358 Park Road
Regents Park
NSW 2143
Sydney 2143
Australia
☎ +6 (12) 87186300
☎ +6 (12) 65813058
Email: techservicesaus@jlg.com

JLG Ground Support Oude
Bunders 1034
Breitwaterstraat 12A
3630 Maasmechelen
Belgium
☎ +32 (0)89 84 82 26
Email: emeaservice@jlg.com

JLG Latino Americana LTDA
Rua Antonia Martins Luiz, 580
Distrito Industrial Joao Narezzi
Indaiatuba-SP 13347-404
Brasil
☎ +55 (19) 3936 7664 (Parts)
☎ +55 (19) 3936 9049 (Service)
Email: comercialpecas@jlg.com
Email: servicos@jlg.com

Oshkosh-JLG (Tianjin)
Equipment Technology LTD
Shanghai Branch
No 465 Xiao Nan Road
Feng Xian District
Shanghai 201204
China
☎ +86 (21) 800 819 0050

JLG Industries Dubai
Jafza View
PO Box 262728, LB 19
20th Floor, Office 05
Jebel Ali, Dubai
☎ +971 (0) 4 884 1131
☎ +971 (0) 4 884 7683
Email: emeaservice@jlg.com

JLG France SAS
Z.I. Guillaume Mon Amy
30204 Fauillet
47400 Tonniens
France
☎ +33 (0) 553 84 85 86
☎ +33 (0) 553 84 85 74
Email: pieces@jlg.com

JLG Deutschland GmbH
Max Planck Str. 21
27721 Ritterhude-Ihlpohl
Germany
☎ +49 (0) 421 69350-0
☎ +49 (0) 421 69350-45
Email: german-parts@jlg.com

JLG Equipment Services Ltd.
Rm 1107 Landmark North
39 Lung Sum Avenue
Sheung Shui N. T.
Hong Kong
☎ +(852) 2639 5783
☎ +(852) 2639 5797

JLG Industries (Italia) S. R. L.
Via Po, 22
IT-20010 Pregnana Milanese (MI)
Italy
☎ +39 (0) 2 9359 5210
☎ +39 (0) 2 9359 5211
Email: ricambi@jlg.com

JLG EMEA B.V.
Polaris Avenue 63
2132 JH Hoofddorp
The Netherlands
☎ +31 (0) 23 565 5665
Email: emeaservice@jlg.com

JLG NZ Access Equipment & Services
2B Fisher Crescent
Mt Wellington 1060
Auckland, New Zealand
☎ +6 (12) 87186300
☎ +6 (12) 65813058
Email: techservicesaus@jlg.com

JLG Industries
Vahutinskoe shosse 24b
Khimki,
Moscow Region 141400
Russia Federation
☎ +7 (499) 922 06 99
☎ +7 (499) 922 06 99

Oshkosh-JLG Singapore
Technology Equipment P te Ltd.
35 Tuas Avenue 2
Jurong Industrial Estate
Singapore 639454
☎ +65 6591 9030
☎ +65 6591 9045
Email: SEA@jlg.com

JLG Iberica S. L.
Trapadella, 2
Pol. Ind. Castellbisbal Sur
08755 Castellbisbal
Barcelona
Spain
☎ +34 (0) 93 772 47 00
☎ +34 (0) 93 77 117 62
Email: parts_iberica@jlg.com

JLG Sverige AB
Enkopingsvagen 150
17627 Jarfalla
Sweden
☎ +46 (0) 8 506 595 00
☎ +46 (0) 8 506 595 27
Email: nordicsupport@jlg.com

JLG Industries (UK) Ltd.
Bentley House
Bentley Avenue
Middleton, Greater Manchester
M24 2GP
United Kingdom
☎ +44 (0) 161 654 1000
☎ +44 (0) 161 654 1003
Email: ukparts@jlg.com

www.jlg.com