



Illustrated Parts Manual

Models ***G9-43A*** ***G10-43A***

Prior to SN 0193008
& 0160000008 through
0160048670 including
0160048773

91514001

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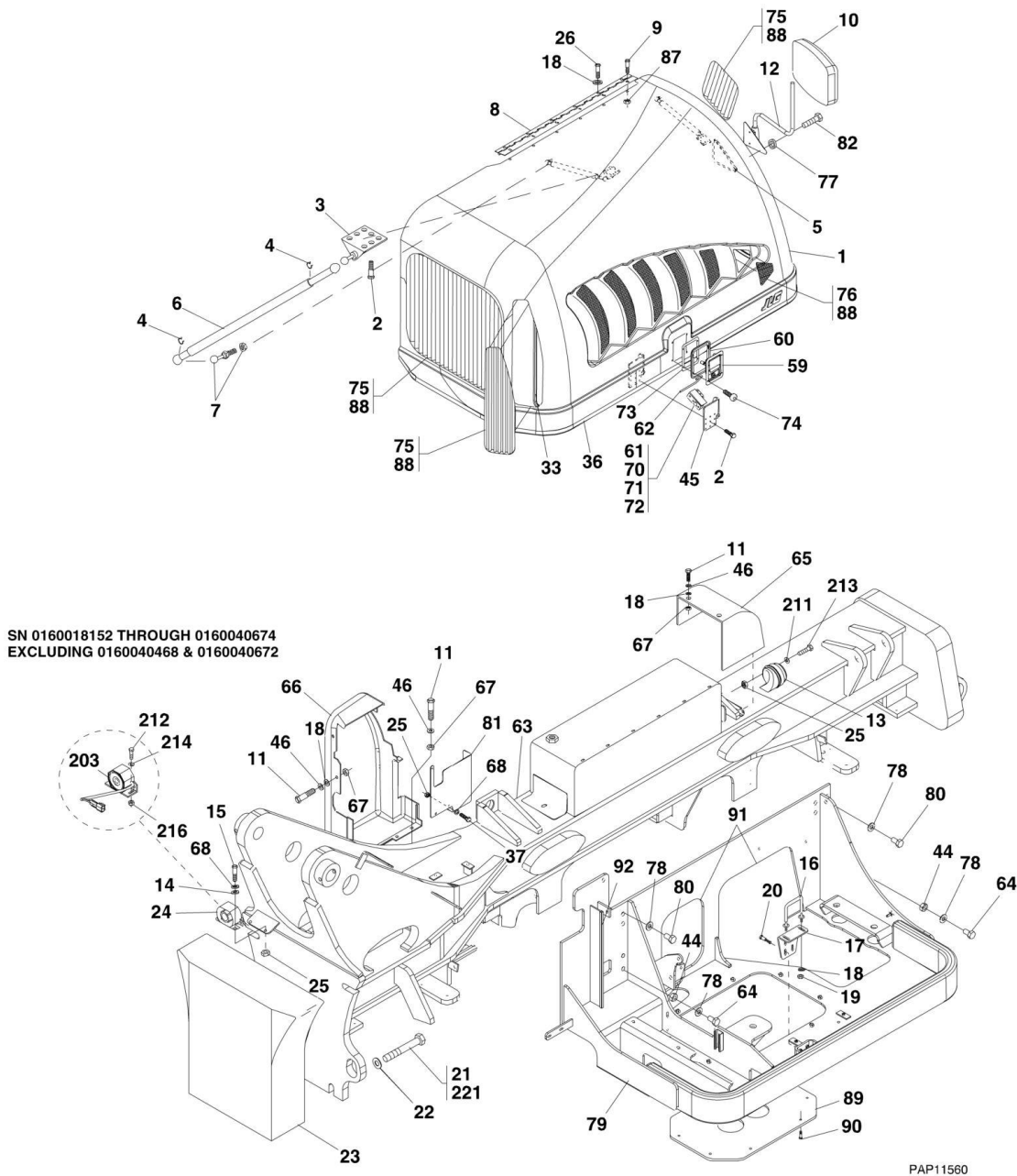
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SECTION 1 - FRAME AND ATTACHING PARTS

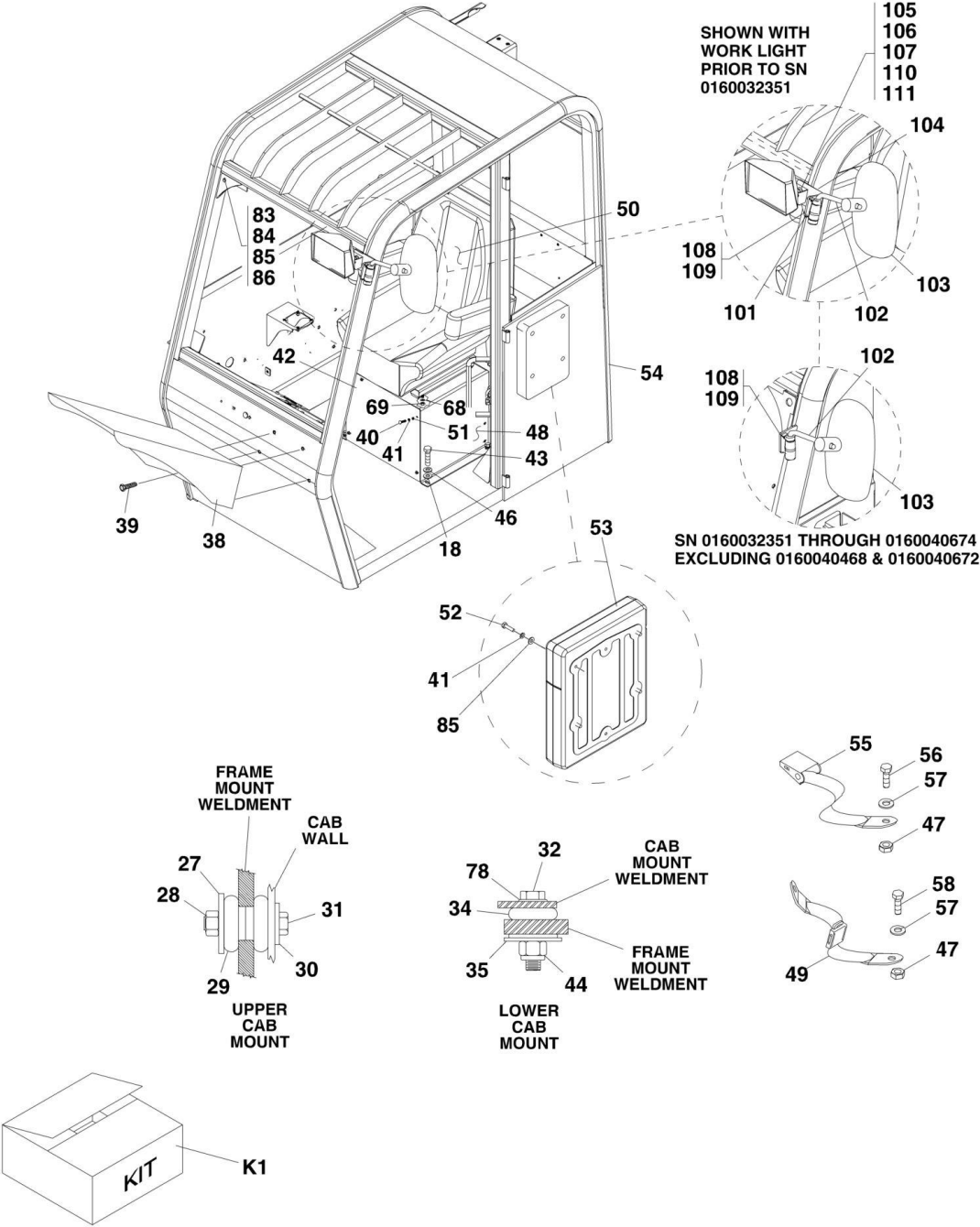
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. FRAME SHROUDING AND TRIM (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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SECTION 1 - FRAME AND ATTACHING PARTS



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SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. FRAME SHROUDING AND TRIM (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91513120	NLA	ENGINE COVER, (no longer available, use 1001114806 for replacement or use items 2, 3, 4, 6, 7, 8, 9, 33, 36, 37, 45, 59, 60, 61, 62, 70 thru 77 & 87 for service)	
1	91513290	NLA	ENGINE COVER, (no longer available, use 1001114806 for replacement or use items 2, 3, 4, 6, 7, 8, 9, 33, 36, 37, 45, 59, 60, 61, 62, 70 thru 77 & 87 for service)	
1	1001114806	1	ENGINE COVER, (includes items 2, 3, 4, 6, 7, 8, 9, 33, 36, 37, 45, 59, 60, 61, 62, 70 thru 77 & 87)	
1	91404275	1	ENGINE COVER KEY	
2	91474411	23	HEX HD CAPSCREW, 8X3/4	
3	91514246	2	PROP BRACKETS	
4	91474425	4	PROP CLIPS	
5	91514286	2	MIRROR MOUNT BACK PLATE	
6	91514245	2	GAS PROP	
7	91474424	2	BALL STUD, 13mm	
8	91514244	1	HINGE, 34 IN	
9	91474420	6	SOCKET BUTTON HD CAPSCREW, 3/8-16X1-1/4	
10	80363195	1	MIRROR	
11	0641610	7	HEX HD CAPSCREW, 3/8-16 X 1-1/4, GR5	
12	91513194	1	MIRROR BRACKET WELDMENT	
13	91143357	1	HORN	
14	4711500	2	FLAT WASHER, 1/4 (Prior to SN 0160018152)	
15	88201018	2	HEX HD CAPSCREW, 5/16-18X3/4, GR5 (Prior to SN 0160018152)	
16	91403600	1	U-BOLT	
17	91471150	1	LATCH MOUNTING BRACKET	
18	4751600	18	FLAT WASHER, 3/8	
19	88501006	2	HEX NUT, 3/8-16	
20	0791612	4	SCREW, 3/8-16X1-1/2	
21	83201147	4	HEX HD CAPSCREW, 1/8X8-1/2	
22	80241137	4	WASHER	
23	91140001	1	COUNTERWEIGHT, (no pintle hook)	
23	1001091458	1	COUNTERWEIGHT, (with pintle hook)	
24	91403574	1	BACK-UP ALARM (Prior to SN 0160018152)	
25	88501005	6	HEX NUT, 5/16-18	
26	0630240	6	SOCKET BUTTON HD CAPSCREW, 3/8-16X3/4	
27	91403217	2	REBOUND WASHER	
28	88501014	2	HEX NUT, 7/8-9	
29	91403153	4	SHOCK MOUNT	
30	91403325	2	HARDENED WASHER	
31	77321274	2	HEX HD CAPSCREW, 7/8-9X5, (torque to 530-565 lb-ft)	
32	0682230	4	HEX HD CAPSCREW, 3/4-10X3-3/4, (torque to 340-365 lb-ft)	
33	7131952	6 ft	BULB SEAL	
34	91403097	4	CAB ISOLATOR MOUNT	
35	91403098	4	TAIL WASHER	
36	91404437	13 ft	BULB SEAL	
37	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
38	91401487	1	CAB FENDER	
39	80973025	4	WHIZ-LOCK BOLT, 3/8-16X1	
40	0630407	6	SOCKET BUTTON HD CAPSCREW, 1/4-20X5/8	

SECTION 1 - FRAME AND ATTACHING PARTS

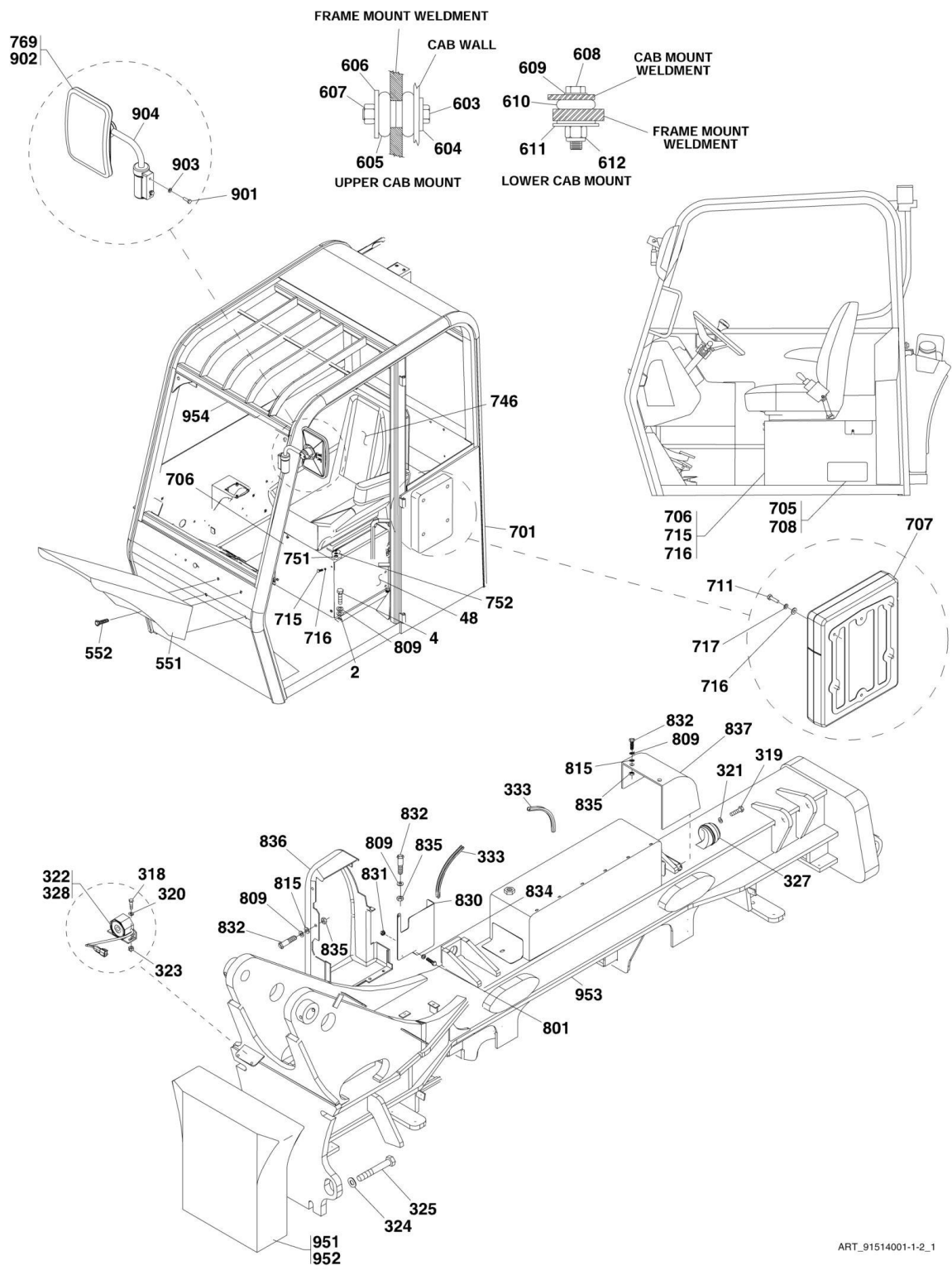
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	4761400	10	LOCKWASHER, 1/4	
42	91401415	1	ACCESS COVER (SN 0193001 through 0160015258)	
42	1001104681	1	ACCESS COVER (SN 0160015259 through 0160039217)	
42	1001103567	1	ACCESS COVER (SN 0160039218 to Present)	
43	0641608	4	HEX HD CAPSCREW, 3/8-16X1, GR5	
44	88501012	8	HEX LOCKNUT, 3/4-10	
45	91474472	1	ROTARY MOUNTING BRACKET	
46	4761600	4	LOCKWASHER, 3/8	
47	88501307	4	HEX NUT, 7/16-20 (SN 0193001 through 0160015259)	
48	91406115	1	RISER WELDMENT (SN 0193001 through 0160015259)	
48	91516044	1	RISER WELDMENT (SN 00160015460 through 0160040674, Excluding 0160040468 and 0160040672)	
49	91513099	1	TETHER, (includes items 47, 57 & 58) (SN 0193001 through 0160015259)	
50	91403526	NLA	TRIMLINE SEAT, (no longer available, See OPTIONS SECTION for replacement) (SN 0193001 through 0160015259)	
		Ref	SUSPENSION SEAT WITH 2 IN SEAT BELT, (See CAB SECTION for Breakdown) (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)	
51	4751400	6	FLAT WASHER, 1/4	
52	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
53	91403230	1	MANUAL CASE	
54		Ref	CAB ASSY, (See CAB SECTION for Breakdown)	
55	91033029	1	SEAT BELT, (not used with optional seat), (includes items 47, 56 & 57)	
56	88201549	2	HEX HD CAPSCREW, 7/16-20X1, GR5	
57	4761700	4	LOCKWASHER, 7/16 (SN 0193001 through 0160015259)	
58	0651712	2	HEX HD CAPSCREW, 7/16-20X1-1/2, GR5 (SN 0193001 through 0160015259)	
59	91474419	1	LOCKING PADDLE HANDLE	
60	91474417	1	PADDLE HANDLE GASKET	
61	91474418	1	ROTARY LATCH	
62	91514253	1	LINKAGE ROD	
63	N.S.S.	1	FRAME WELDMENT	
64	0642236	4	HEX HD CAPSCREW, 3/4-10X4-1/2, (torque to 240-255 lb-ft)	
65	91513121	1	FRONT COVER (G9-43A)	
65	1001116366	1	FRONT COVER (G10-43A)	
66	91513122	1	MAIN VALVE COVER	
67	88662523	9	TINNERMAN NUT	
68	4751500	9	FLAT WASHER, 5/16 (SN 0193001 through 0160015259)	
69	77143006	4	WHIZ-LOCK NUT, 5/16-18 (SN 0193001 through 0160015259)	
70	N.S.S.	2	BOLT, 5/16X1-1/2	
71	91474413	2	NUT, 5/16	
72	91474412	2	LOCKWASHER, 5/16	
73	91474427	1	LATCH BACKING PLATE	
74	91474416	4	RIVETS, 3/16X1/2	
75	91514263	1	3 PC SCREEN KIT, (adhesive not included)	
76	91514262	1	6 PC SCREEN KIT, (adhesive not included)	
77	4831700	2	SPRING LOCKWASHER, 6mm	
78	90027473	20	HARDENED WASHER, 3/4	
79	91516024	1	ENGINE POD WELDMENT (SN 0193001 through 0160012095)	
79	91516045	1	ENGINE POD WELDMENT (SN 0160012153 through 016002093)	

SECTION 1 - FRAME AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
79	4341287	1	ENGINE POD WELDMENT (SN 0160020943 through 0160040674, Excluding 0160040468 and 0160040672)	
80	0682216	8	HEX HD CAPSCREW, 3/4-10X2, (torque to 240-255 lb-ft)	
81	91511167	1	COVER PLATE	
82	0760612	2	HEX HD CAPSCREW, M6X1X20, GR8	
83		Ref	TILT GAUGE, (no longer available to order, use 8466306 for replacement or items 84 thru 86 for replacement) (Prior to SN 0160005715)	
83	8466306	1	TILT GAUGE, (with adhesive) (SN 0160005715 through 0160040674, Excluding 0160040468 and 0160040672)	
84	0641408	1	HEX HD CAPSCREW, 1/4-20X1, GR5 (Prior to SN 0160005715)	
85	4711400	5	FLAT WASHER, 1/4 (Prior to SN 0160005715)	
86	88521204	1	HEX LOCKNUT, 1/4-20 (Prior to SN 0160005715)	
87	8310522	6	WHIZ-LOCK NUT, 3/8-16	
88	7027772	1	ADHESIVE KIT, (includes 3 tubes and applicator), (enough to do 6 pc screen kit)	
89	91511136	1	OIL PAN COVER	
90	0641809	8	HEX HD CAPSCREW, 1/2-13X1 1/8	
91	91143220	60 in	TRIM-LOCK	
92	91513197	AR	BULB SEAL	
	1001096344	Ref	LH MIRROR INSTALLATION, (not available to order, see items 101 thru 111 for service) (Prior to SN 0160032315)	B
	1001097149	Ref	LH MIRROR INSTALLATION, (not available to order, see items 102, 103, 108 & 109 for service) (SN 0160032351 through 0160040674, Excluding 0160040468 and 0160040672)	B
101	1001096327	1	MIRROR BRACKET	
102	8866530	1	MIRROR MOUNT ARM ASSY	
103	8866514	1	MIRROR HEAD	
104	4420060	AR	DOUBLE SIDED TAPE	
105	1001096728	1	BOLT, 1/2-13	
106	4751800	1	WASHER, 1/2	
107	4761800	1	LOCKWASHER, 1/2	
108	8303799	2	HEX HD CAPSCREW, 6-1X14mm, GR8.8	
109	8307024	2	LOCKWASHER, M6	
110	88501008	1	HEX NUT, 1/2-13	
111	91403503	1	SPACER	
203	8270621	1	BACK-UP ALARM (SN 0160018152 through 0160040674, Excluding 0160040468 and 0160040672)	
211	88551010	1	LOCKWASHER, 5/16	
212	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5 (SN 0160018152 through 0160040674, Excluding 0160040468 and 0160040672)	
213	0641506	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
214	4711400	2	FLAT WASHER, 1/4 (SN 0160018152 through 0160040674, Excluding 0160040468 and 0160040672)	
216	8305624	2	ELASTIC LOCKNUT, 1/4-20 (SN 0160018152 through 0160040674, Excluding 0160040468 and 0160040672)	
221	0100019	AR	LOCTITE 271	
K1	91505062	1	REPLACEMENT PADDLE KIT, (includes items 59 & 61)	

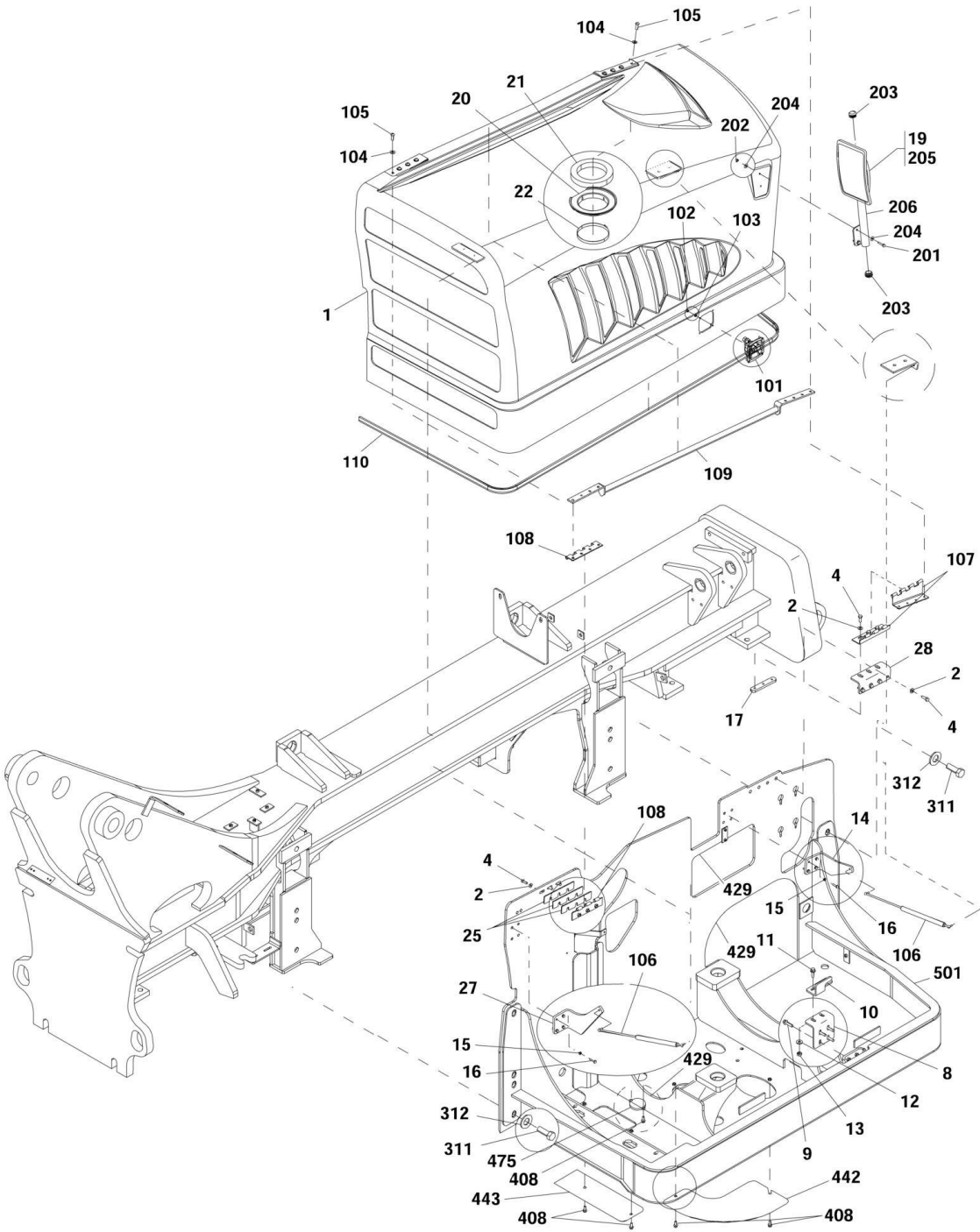
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. FRAME SHROUDING AND TRIM (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-1-2_1

SECTION 1 - FRAME AND ATTACHING PARTS



ART_91514001-1-2_2

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. FRAME SHROUDING AND TRIM (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112158	Ref	HOOD INSTALLATION, (not available to order, see items 1 thru 28 for service)	G
1	1001109338	1	ENGINE COVER, (includes items 101 thru 109)	K
2	4711600	10	WASHER, 3/8	
4	0641608	10	HEX HD CAPSCREW, 3/8-16X1, GR5	
8	1001108965	1	LATCH MOUNT BRACKET	
9	0791612	4	SCREW, 3/8-16X1-1/2	
10	1001108966	1	LATCH CATCH BRACKET	
11	0791610	2	WHIZ-LOCK SCREW, 3/8-16X1-1/4	
12	4751600	2	WASHER, 3/8	
13	88501006	2	HEX NUT, 3/8-16	
14	1001121964	1	GAS STRUT FRONT BRACKET	
15	4761400	8	LOCKWASHER, 1/4	
16	0641409	8	HEX HD CAPSCREW, 1/4-20X1-1/8, GR5	
17	1001120550	1	HOOD HINGE SUPPORT PLATE	
19	1001116461	1	RH MIRROR INSTALLATION, (includes items 201 thru 206)	A
20		Ref	AIR FILTER INTAKE ADAPTER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
21		Ref	FOAM SEAL, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
22		Ref	BAND CLAMP, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
25	1001120554	3	ENGINE HOOD SHIM	
27	1001121965	1	GAS STRUT REAR BRACKET	
28	1001121659	1	HOOD HINGE MOUNT PLATE	
48	1001103663	1	RISER WELDMENT	
101	1001122219	1	COMPRESSION LATCH	
102	3290605	4	LOCKNUT, 6X1mm	
103	4811700	4	WASHER, 6mm	
104	4711600	8	WASHER, 3/8	
105	3900316	8	BUTTON HD CAPSCREW, 3/8-16X1	
106	1001114294	2	GAS SPRING	
107	1001114295	1	ENGINE COVER HINGE, FRONT	
108	1001114296	1	ENGINE COVER HINGE, REAR	
109	1001114297	1	ENGINE COVER SUPPORT BAR	
110	1001120639	1	SEAL, BULB	
201	0641409	2	HEX HD CAPSCREW, 1/4-20X1-1/8, GR5	
202	3311405	2	HEX LOCKNUT, 1/4-20	
203	3520176	2	PLUG, 1.25	
204	4751400	4	WASHER, 1/4	
205	8866348	1	MIRROR ASSEMBLY	
206	1001116318	1	MIRROR BRACKET	
311	0682420	8	HEX HD CAPSCREW, 7/8-9X2-1/2, GR8	
312	4892400	8	WASHER, 7/8	
318	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
319	0641504	1	HEX HD CAPSCREW, 5/16-18X1/2, GR5	
320	4711400	2	WASHER, 1/4	
321	4761500	1	LOCKWASHER, 5/16	
322	8270621	1	BACK-UP ALARM	
323	8305624	2	LOCKNUT, 1/4-20	

SECTION 1 - FRAME AND ATTACHING PARTS

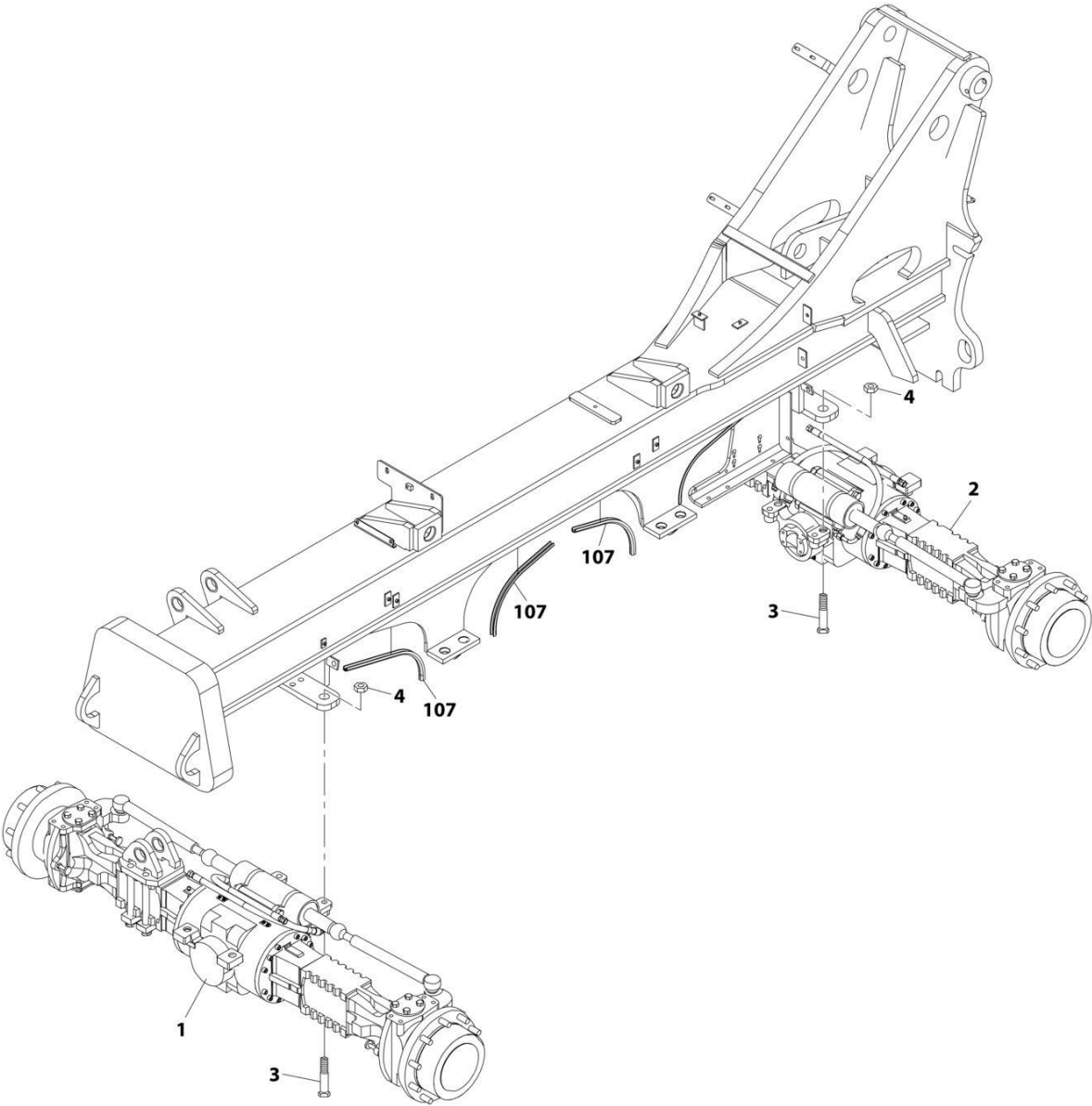
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
324	80241137	4	SPECIAL WASHER	A
325	83201147	4	HEX HD CAPSCREW, 1/8X9-1/2	
327	91143357	1	HORN	
328	1001116274	1	MOLDED RESISTOR	
333	91143220	36 in	TRIM-LOCK, 1/2	
408	0791506	6	WHIZ-LOCK SCREW, 5/16-18X3/4	
429	90206202	180 in	TRIM-LOCK	
442	1001118101	1	ENGINE DRAIN COVER	
443	1001118102	1	COOLER HOSES COVER	
475	1001127174	1	FILTER COVER PLATE	
501	1001100961	1	ENGINE POD WELDMENT	
	91565067	Ref	CAB FENDER INSTALLATION, (not available to order, see items 551 & 552 for service)	
551	91401487	1	CAB FENDER	
552	80973025	4	WHIZ-LOCK BOLT, 3/8-16X1	
	1001098254	Ref	CAB MOUNTING INSTALLATION, (not available to order, see items 603 thru 612 for service)	D
603	0682440	2	HEX HD CAPSCREW, 7/8-9X5, GR8	
604	1001108383	2	TAIL WASHER	
605	91403153	4	SHOCK MOUNT	
606	91403217	2	REBOUND WASHER	
607	88501014	2	HEX NUT, 7/8-9	
608	0682230	4	HEX HD CAPSCREW, 3/4-10X3-3/4, GR8	
609	90027473	4	HARD WASHER, 3/4	
610	91403097	4	CENTER BONDED MOUNT	
611	91403098	4	TAIL WASHER	
612	88501012	4	HEX NUT, 3/4-10	
701		Ref	OPEN CAB, (See CAB SECTION for Breakdown), (includes item 48)	
705	1001106866	1	SEAT RISER SIDE PANEL	
706	1001103567	1	ACCESS COVER PLATE	
707	91403230	1	MANUAL STORAGE BOX	C
708	91413036	4	SELF TAP SCREW	
711	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
715	0630407	4	SOC-BUT HD CAP BOLT, .25-20X.625	
716	4711400	8	FLATWASHER, .25	
717	4761400	4	LOCKWASHER, 1/4	
746		Ref	SUSPENSION SEAT WITH 2 IN SEAT BELT, (See CAB SECTION for Breakdown)	
751	3311505	4	HEX LOCKNUT, 5/16-18	
752	4711500	4	WASHER, 5/16	
769	1001115153	Ref	LH MIRROR INSTALLTION, (not available to order, see items 901 thru 904 for service)	
801	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
809	4761600	13	LOCKWASHER, 3/8	
815	4751600	9	WASHER, 3/8	
830	1001119632	1	VALVE COVER PANEL	
831	88501005	3	HEX NUT, 5/16-18	
832	0641610	9	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
834	4751500	3	WASHER, 5/16	
835	88662523	9	TINNERMAN NUT	
836	91513122	1	MAIN VALVE COVER	

SECTION 1 - FRAME AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
837	1001116902	1	FRONT COVER	
901	0700610	2	HEX HD CAPSCREW, M6X20, GR8.8	
902	1001148177	1	RECTANGULAR MIRROR	
903	8307024	2	LOCKWASHER, 6MM	
904	1001114675	1	MIRROR ARM	
951	91140001	1	COUNTERWEIGHT, (if equipped)	
952	1001097095	1	COUNTERWEIGHT WITH PINTLE HOOK, (if equipped)	
953	N.S.S.	1	FRAME	
954	8466306	1	TILT GAUGE, (with adhesive)	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. AXLE MOUNTING



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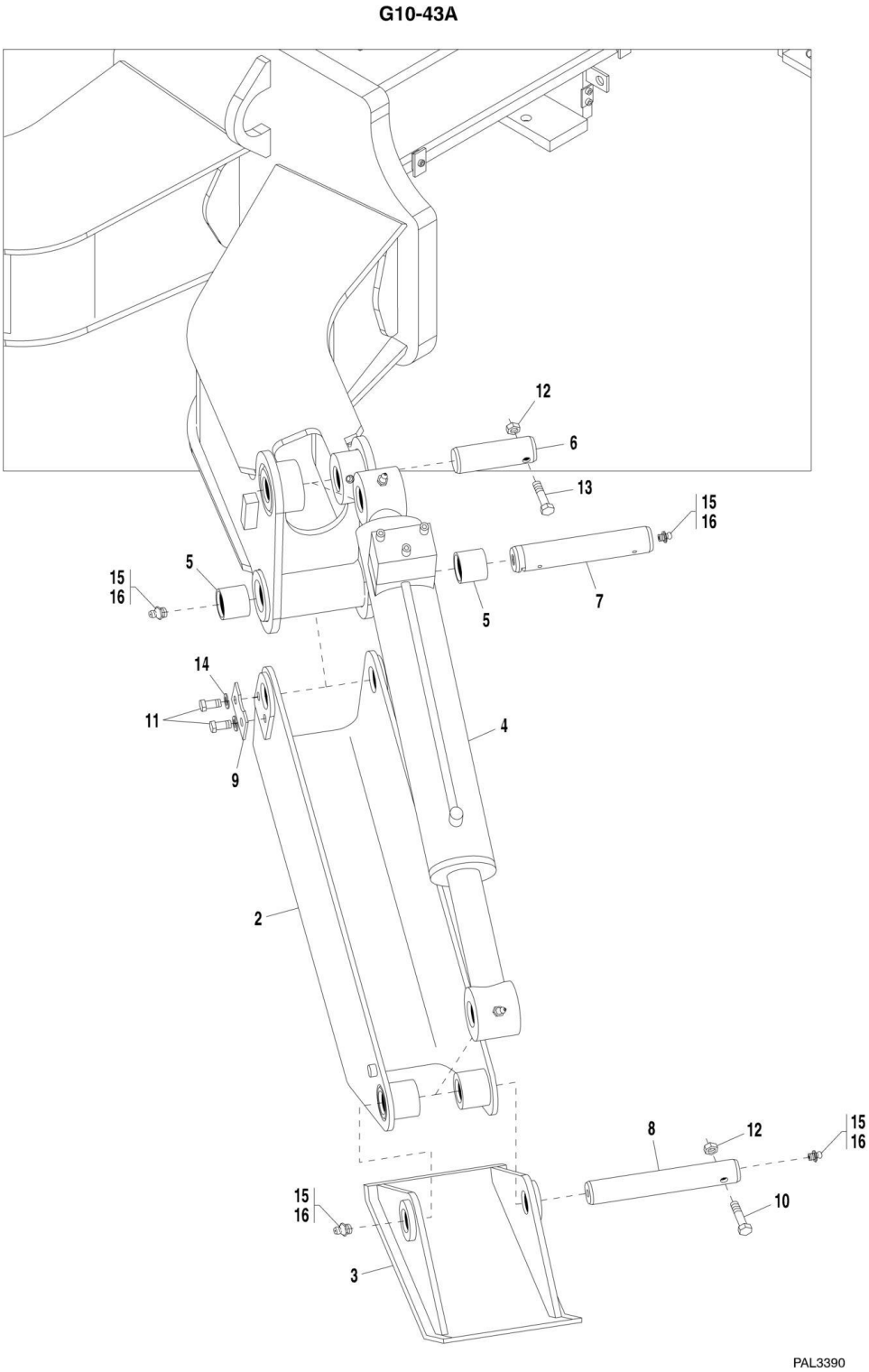
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. AXLE MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0682444	Ref	FRONT AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)	
2		Ref	REAR AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)	
3		16	HEX HD CAPSCREW, 7/8-9X5-1/2, (loctite and torque to 530-565 lb ft)	
4	77383118	16	WASHER, 7/8	
106	90206198	3.5 in	TRIM, PVC VINLY EDGE, (not shown)	
107	90206203	91 in	TRIM, PVC VINLY EDGE	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-4. OUTRIGGER MOUNTING (G10-43A)



SECTION 1 - FRAME AND ATTACHING PARTS

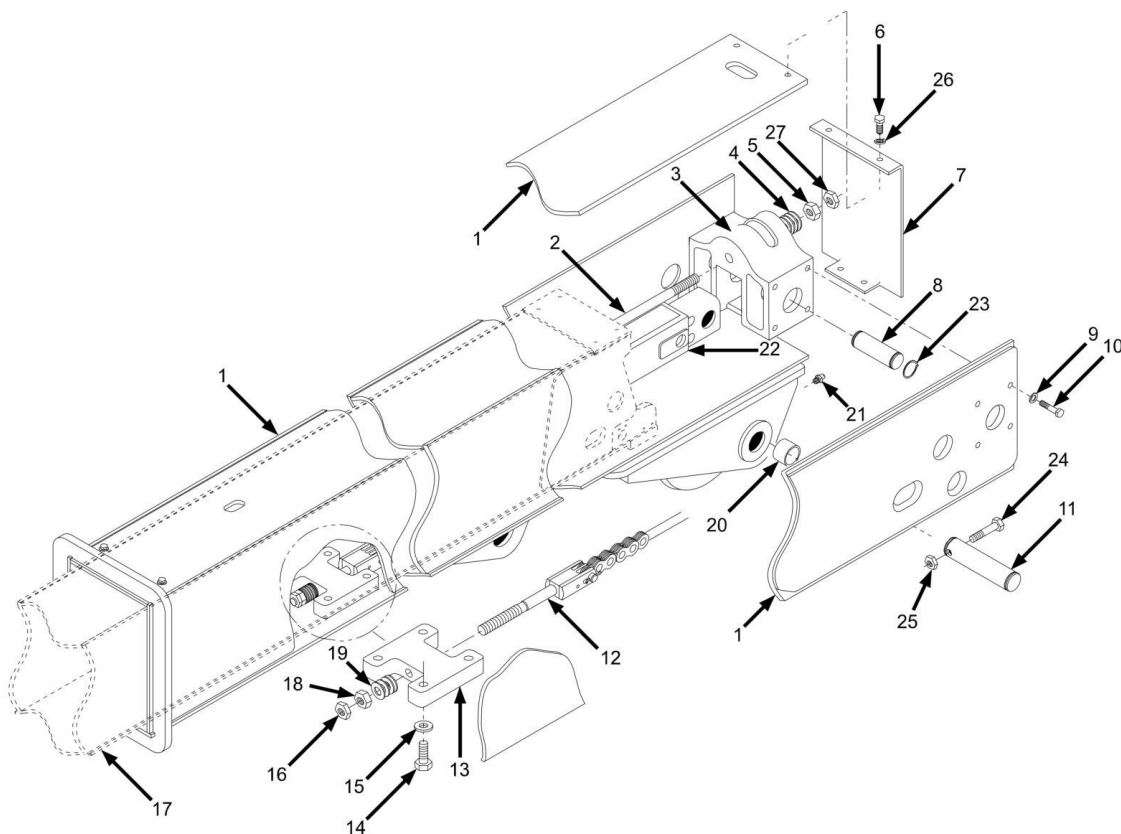
FIGURE 1-4. OUTRIGGER MOUNTING (G10-43A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110734	1	OUTRIGGER ASSEMBLY	A
2	91566050	2	ARM WELDMENT	
3	91566051	2	OUTRIGGER SHOE	
4		Ref	OUTRIGGER CYLINDER AND VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
5	91163014	4	BUSHING	
6	91563197	2	OUTRIGGER CYLINDER PIN	
7	91563198	2	ARM PIN	
8	91563199	2	SHOE PIN	
9	91081313	2	KEEPER	
10	0641634	2	HEX HD CAPSCREW, 3/8-16X4-1/4, GR5	
11	0641808	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
12	3300143	4	HEX LOCKNUT, 3/8-16	
13	3931672	2	SOCKET HD CAPSCREW, 3/8-16X4-1/2, GR8	
14	4761800	4	LOCKWASHER, 1/2	
15	88671001	4	LUBE FITTING, STRAIGHT, 1/8	
16	0100011	AR	LOCTITE 242	
17		Ref	HOSE ASSEMBLY, (not shown), (See HYDRAULIC CIRCUITS SECTION for Breakdown)	

SECTION 2 - BOOM

SECTION 2 - BOOM

FIGURE 2-1. FIRST BOOM SECTION



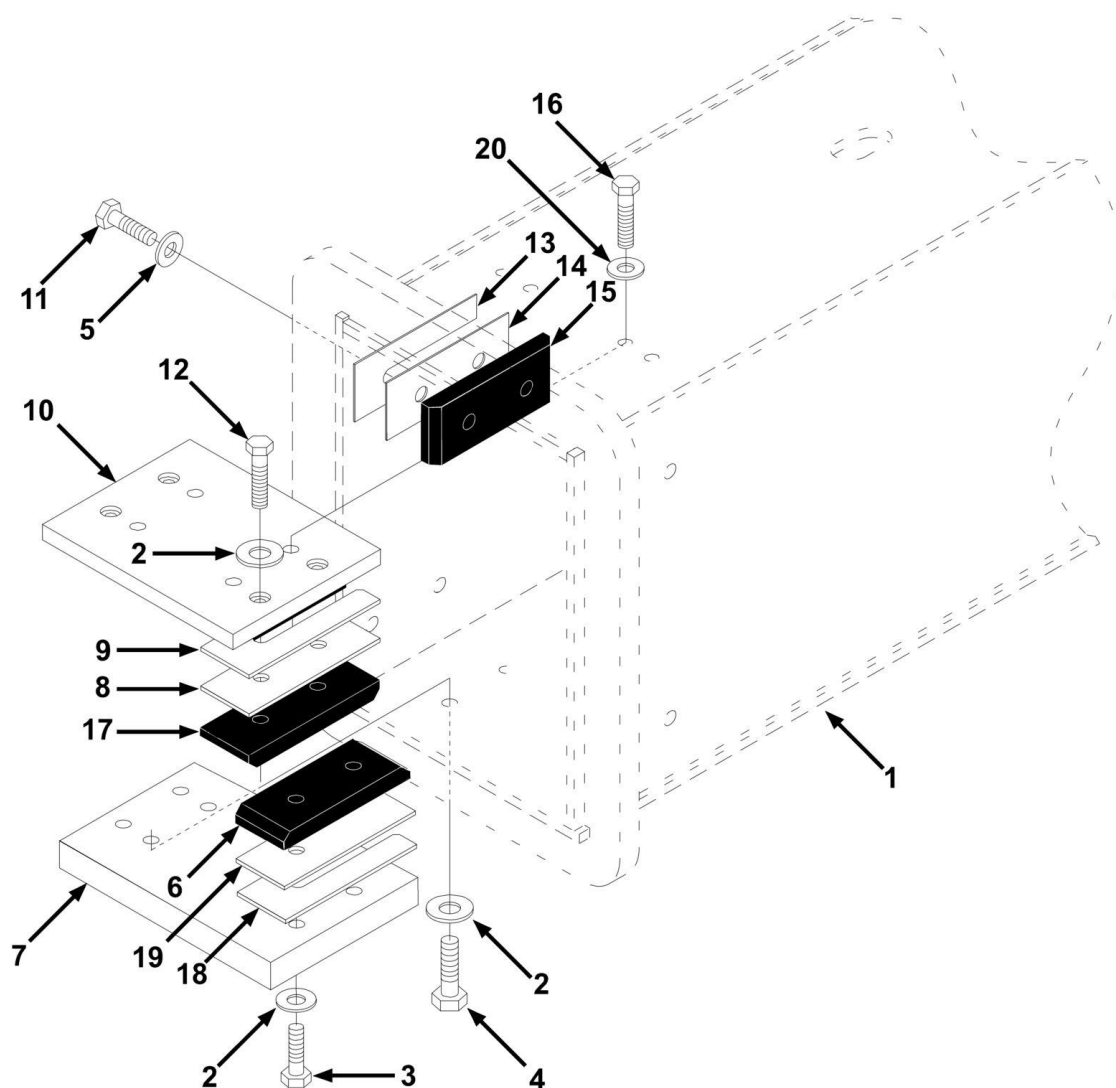
- NOTE: 1. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS AND JAM NUTS.
 2. PRIOR TO SN 0160037671 COAT STATIC, NON-ROTATING, PIN BORES WITH NEVER SEEZE LUBE (14403323).
 SN 0160037671 TO PRESENT COAT STATIC, NON-ROTATING, PIN BORES WITH MOLY-PASTE (3020040).
 DO NOT COAT THE PIN OR ANY ROTATING PARTS.
 3. COAT ALL WEAR PADS, SHEAVES, AND ROTATING PIN BORES WITH MYSTIK XD2 GREASE (14404793)
 PRIOR TO INSTALLATION OF THE PIN.

FIGURE 2-1. FIRST BOOM SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91516009	1	FIRST BOOM SECTION	
2		Ref	CHAIN CLEVIS ROD, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY, item 4 for Breakdown)	
3	91513003	1	STRONG BACK	
4	91513200	6	BELLEVILLE WASHER, 1-1/4	
5	88501020	1	HEX NUT, 1-1/4-7, (torque to 100-110 lb-ft)	
6	88201033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
7	1001128274	1	REAR COVER	
8		Ref	CYLINDER PIN, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
9	4712200	8	FLAT WASHER, 3/4	
10	0642216	8	HEX HD CAPSCREW, 3/4-10X2, GR5, (torque to 240-265 lb-ft)	
11	91513047	1	BOOM PIVOT PIN	
12		Ref	CHAIN ANCHOR, (See SECOND BOOM SECTION, item 12 for Breakdown)	
13	91511049	1	ANCHOR PLATE	
14	0642012	4	HEX HD CAPSCREW, 5/8-11 X1.500	
15	90027472	4	HARDENED WASHER	
16	88501412	1	HEX JAM NUT, 3/4-16, (torque to 100-110 lb-ft)	
17		Ref	SECOND BOOM SECTION, (See SECOND BOOM SECTION for Breakdown)	
18	88501312	1	HEX NUT, 3/4-16	
19	91513199	14	BELLEVILLE WASHER, 3/4	
20	91513104	2	BOOM PIVOT BUSHING	
21	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
22		Ref	PUSH BEAM, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY for Breakdown)	
23	90028935	2	RETAINING RING	
24	88212288	1	HEX HD CAPSCREW, 3/4-10x6-1/2	
25	88521012	1	STOVER NUT, 3/4-10 (Prior to SN 0160037671)	
25	8310067	1	HEX LOCK NUT, 3/4-10 (SN 0160037671 to Present)	
26	88551011	4	LOCK WASHER, 3/8	
27	88501120	1	HEAVY HEX JAM NUT, 1-1/4-7	

SECTION 2 - BOOM

FIGURE 2-2. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION)



NOTE: 1. WEAR PAD SHIMMING:

- A. WHENEVER A SHIM IS USED WITH A PAD, A SPACER WITH HOLES MUST BE INSERTED BETWEEN PAD & SHIM.
 - B. THE WEAR PAD OR WEAR PAD INSERT MUST NOT SIT DIRECTLY ON THE SLOTTED SURFACE OF SHIMS.
 - C. PRIOR TO SN 0160037671 ADD BEARING PAD SHIMS & SPACERS AS REQUIRED TO SHIM BOOM TO WITHIN 1/16 IN. (1.58 MM) OF A TIGHT FIT.
SN 0160037671 TO PRESENT ADD BEARING PAD SHIMS & SPACERS AS REQUIRED TO SHIM BOOM TO MAINTAIN A TOTAL MINIMUM GAP OF 0.070 TO 0.130 IN. (1.8 TO 3.3 MM) BOTH HORIZONTAL & VERTICAL DIRECTIONS.
 - D. THE LENGTH OF PAD BOLTS DEPENDS ON THE NUMBER OF THE SHIMS USED. THE BOLT CANNOT EXTEND PAST CHAMFER ON WEAR PAD.
2. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
 3. ADD MYSTIK TETRIMOLY GREASE (14404793) TO ALL PAD SLIDE PATHWAYS. IF APPLICABLE, THIS INCLUDES ALL PAD GREASE FITTINGS AT THE REAR OF BOOM.

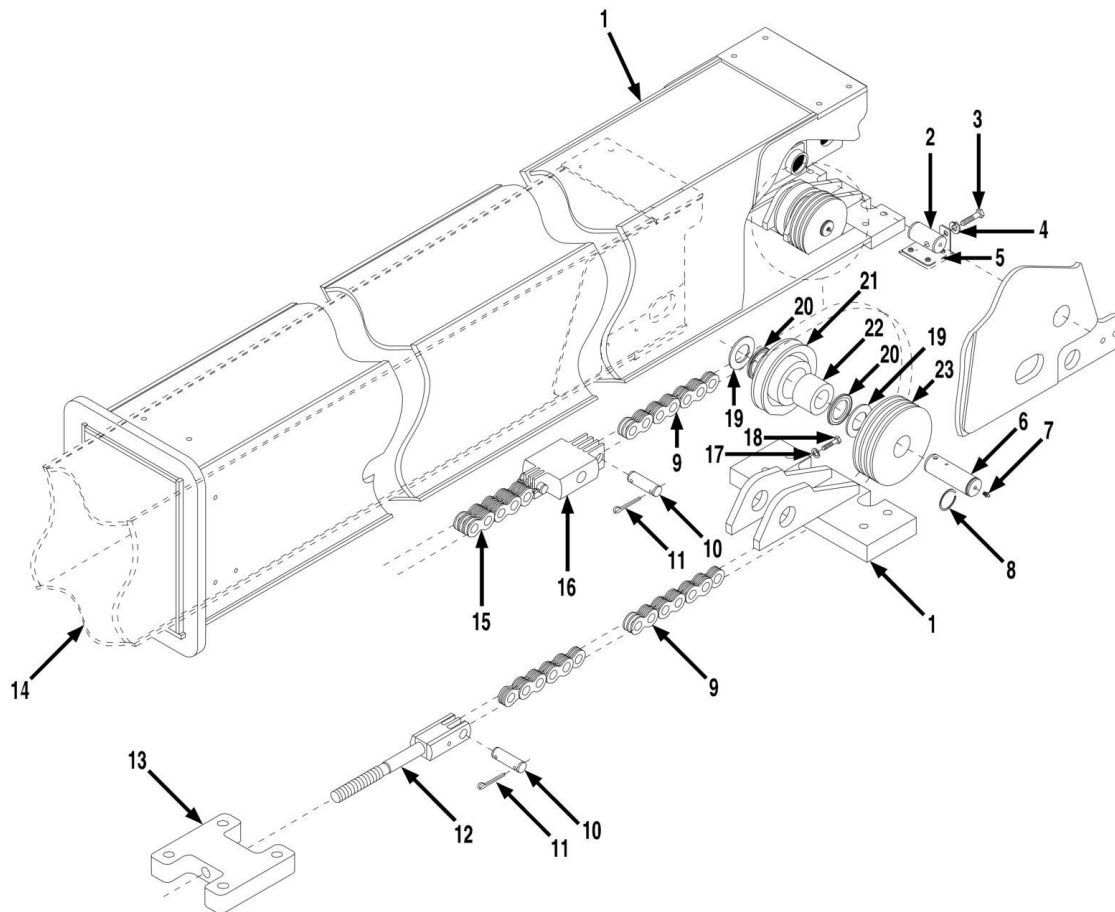
SECTION 2 - BOOM

FIGURE 2-2. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FIRST BOOM SECTION, (See FIRST BOOM SECTION for Breakdown)	
2	90027471	AR	HARDENED WASHER, 1/2	
3	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft)	
3	0651811	AR	HEX HD CAPSCREW, 1/2-20X1.375	
4	0641810	4	HEX HD CAPSCREW, 1/2-13X 1.250, GR5	
5	90027470	8	HARDENED WASHER, 3/8	
6	1001117656	2	BEARING PAD	
7	91511039	1	MOUNT PLATE	
8	91401450	2	SPACER	
9	91401456	AR	SHIM	
9	91401457	AR	SHIM	
10	91511038	1	MOUNT PLATE	
11	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft)	
11	0651607	AR	HEX HD CAPSCREW, 3/8-24X7/8, GR5, (torque to 32-37 lb-ft)	
11	0651608	AR	HEX HD CAPSCREW, 3/8-24X1, GR5, (torque to 32-37 lb-ft)	
12	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-1/4, GR5, (torque to 76-86 lb-ft)	
13	91401212	AR	SHIM	
13	91401213	AR	SHIM	
14	91401223	4	SPACER	
15	91403530	4	BEARING PAD	
16	0641708	4	HEX HD CAPSCREW, 7/16-14X1, GR5	
17	1001117654	2	BEARING PAD	
18	91511101	AR	SHIM	
18	91511102	AR	SHIM	
19	91511100	2	SPACER	
20	4711700	4	FLAT WASHER, 7/16	

SECTION 2 - BOOM

FIGURE 2-3. SECOND BOOM SECTION



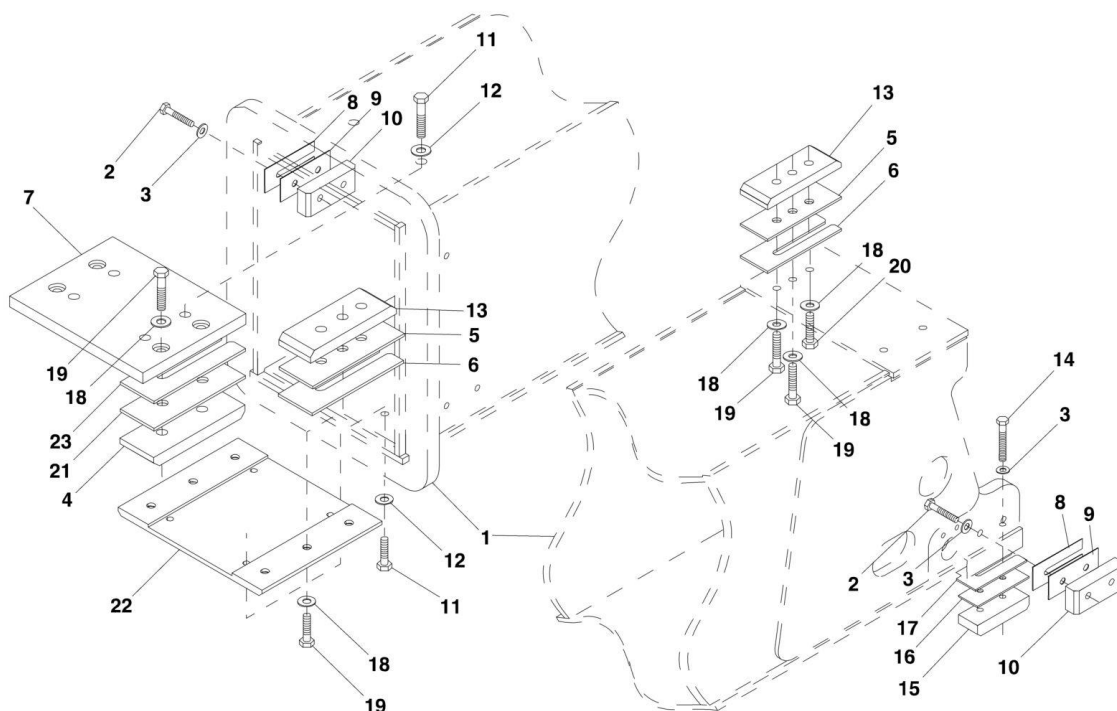
- NOTE: 1. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS AND JAM NUTS.
 2. PRIOR TO SN 0160037671 COAT STATIC, NON-ROTATING, PIN BORES WITH NEVER SEEZE LUBE (14403323).
 SN 0160037671 TO PRESENT COAT STATIC, NON-ROTATING, PIN BORES WITH MOLY-PASTE (3020040).
 DO NOT COAT THE PIN OR ANY ROTATING PARTS.
 3. COAT ALL WEAR PADS, SHEAVES, AND ROTATING PIN BORES WITH MYSTIK XD2 GREASE (14404793) PRIOR TO
 INSTALLATION OF THE PIN.

FIGURE 2-3. SECOND BOOM SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91516010	1	SECOND BOOM SECTION (Prior to SN 0160037671)	
1	1001102967	1	SECOND BOOM SECTION (SN 0160037671 to Present)	
2	91141128	2	PUSH BEAM PIN	
3	0641832	2	HEX HD CAPSCREW, 1/2-13X4	
4	4761800	2	LOCKWASHER, 1/2	
5	91515002	1	HOSE RETAINER, (includes the following items)	
5	91511050	1	LH HOSE RETAINER	
5	91513026	1	PAD	
5	88241023	4	SOCKET FLAT HD CAPSCREW, #10-24X5/8	
5	88501612	4	HEX NUT, #10-24	
6	91513013	1	RETRACTION SHEAVE PIN (Prior to SN 0160037671)	
6	91513110	1	RETRACTION SHEAVE PIN (SN 0160037671 to Present)	
7	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
8	90028932	1	RETAINING RING	
9	91513035	1	LEAF CHAIN 834	
10	91513177	2	CHAIN PIN	
11	88581112	4	COTTER PIN, 1/16X3/4	
12	1360294	1	CHAIN ANCHOR	
13		Ref	ANCHOR PLATE, (See FIRST BOOM SECTION, item 13 for Breakdown)	
14		Ref	THIRD BOOM SECTION, (See THIRD BOOM SECTION for Breakdown)	
15		Ref	EXTENSION CHAIN 1066, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY, item 1 for Breakdown)	
16		Ref	CLEVIS 1066-834, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY, item 8 for Breakdown)	
17	88551011	1	LOCKWASHER, 3/8 (Prior to SN 0160037671)	
17	4761600	1	LOCKWASHER, 3/8 (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
18	0641634	1	HEX HD CAPSCREW, 3/8-16X4-1/4, GR5	
19	91403126	AR	THRUST WASHER	
19	91403127	AR	THRUST WASHER	
20	91403053	2	SEAL	
21	91513242	1	RETRACT ROLLER ASSY, (includes items 20 & 22)	
22	91513011	1	BUSHING	
23	3580346	1	HOSE SHEAVE	

SECTION 2 - BOOM

FIGURE 2-4. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION)



NOTE: 1. WEAR PAD SHIMMING:

- A. WHENEVER A SHIM IS USED WITH A PAD, A SPACER WITH HOLES MUST BE INSERTED BETWEEN PAD & SHIM.
- B. THE WEAR PAD OR WEAR PAD INSERT MUST NOT SIT DIRECTLY ON THE SLOTTED SURFACE OF SHIMS.
- C. PRIOR TO SN 0160037671 ADD BEARING PAD SHIMS & SPACERS AS REQUIRED TO SHIM BOOM TO WITHIN 1/16 IN. (1.58 MM) OF A TIGHT FIT.
SN 0160037671 TO PRESENT ADD BEARING PAD SHIMS & SPACERS AS REQUIRED TO SHIM BOOM TO MAINTAIN A TOTAL MINIMUM GAP OF 0.070 TO 0.130 IN. (1.8 TO 3.3 MM) BOTH HORIZONTAL & VERTICAL DIRECTIONS.
- D. THE LENGTH OF PAD BOLTS DEPENDS ON THE NUMBER OF THE SHIMS USED. THE BOLT CANNOT EXTEND PAST CHAMFER ON WEAR PAD.
2. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
3. ADD MYSTIK TETRAMOLY GREASE (14404793) TO ALL PAD SLIDE PATHWAYS. IF APPLICABLE, THIS INCLUDES ALL PAD GREASE FITTINGS AT THE REAR OF BOOM.

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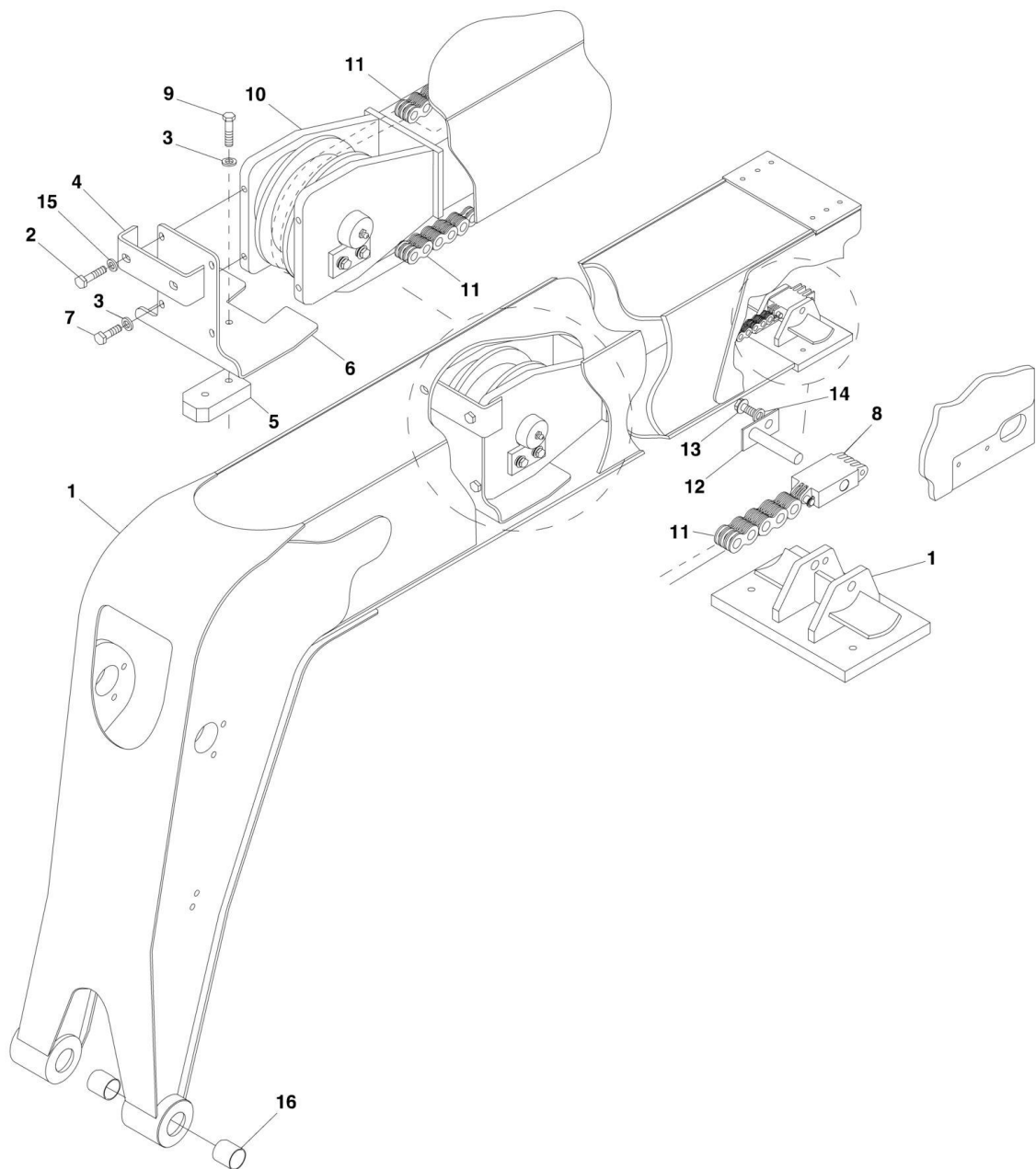
SECTION 2 - BOOM

FIGURE 2-4. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	SECOND BOOM SECTION, (See SECOND BOOM SECTION for Breakdown)	
2	0651605	AR	HEX HD CAPSCREW, 3/8-24X5/8, GR5, (torque to 32-37 lb-ft)	
2	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft)	
2	0651607	AR	HEX HD CAPSCREW, 3/8-24X7/8, GR5, (torque to 32-37 lb-ft)	
3	90027470	AR	HARDENED WASHER, 3/8	
4	91403534	2	BEARING PAD	
5	91511100	4	SPACER	
6	91511101	AR	SHIM	
6	91511102	AR	SHIM	
7	91511009	1	MOUNT PLATE (Prior to SN 0160037671)	
7	1001102973	1	MOUNT PLATE (SN 0160037671 to Present)	
8	91401212	AR	SHIM	
8	91401213	AR	SHIM	
9	91401223	6	SPACER	
10	91403530	6	BEARING PAD	
11	0651806	AR	HEX HD CAPSCREW, 1/2-20X3/4, GR5, (torque to 45-50 lb-ft)	
12	4711800	8	FLAT WASHER, 1/2	
13	1001117656	4	BEARING PAD	
14	0641806	AR	HEX HD CAPSCREW, 1/2-20X3/4, GR5, (torque to 45-50 lb-ft)	
14	0651612	AR	HEX HD CAPSCREW, 3/8-24X1-1/2, GR5, (torque to 32-37 lb-ft)	
14	0651614	AR	HEX HD CAPSCREW, 3/8-24X1-3/4, GR5, (torque to 32-37 lb-ft)	
15	91513074	2	BEARING PAD	
16	91511094	2	SPACER	
17	91361049	AR	SHIM	
17	91511096	AR	SHIM	
18	90027471	AR	HARDENED WASHER, 1/2	
19	0651806	AR	HEX HD CAPSCREW, 1/2-20X3/4, GR5, (torque to 45-50 lb-ft)	
19	0651807	AR	HEX HD CAPSCREW, 1/2-20X7/8, GR5, (torque to 76-86 lb-ft)	
19	0651808	AR	HEX HD CAPSCREW, 1/2-20X1, GR5, (torque to 76-86 lb-ft)	
20	0651810	AR	HEX HD CAPSCREW, 1/2-20X1-1/4, GR5, (torque to 76-86 lb-ft)	
20	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft)	
20	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft)	
21	91401224	2	SPACER	
22	91511008	1	MOUNT PLATE	
23	91401456	AR	SHIM	
23	91401457	AR	SHIM	

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FIGURE 2-5. THIRD BOOM SECTION



NOTE: 1. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS AND JAM NUTS.
2. PRIOR TO SN 0160037671 COAT STATIC, NON-ROTATING, PIN BORES WITH NEVER SEEZE LUBE (14403323).
SN 0160037671 TO PRESENT COAT STATIC, NON-ROTATING, PIN BORES WITH MOLY-PASTE (3020040).
DO NOT COAT THE PIN OR ANY ROTATING PARTS.
3. COAT ALL WEAR PADS, SHEAVES, AND ROTATING PIN BORES WITH MYSTIK XD2 GREASE (14404793) PRIOR TO
INSTALLATION OF THE PIN.

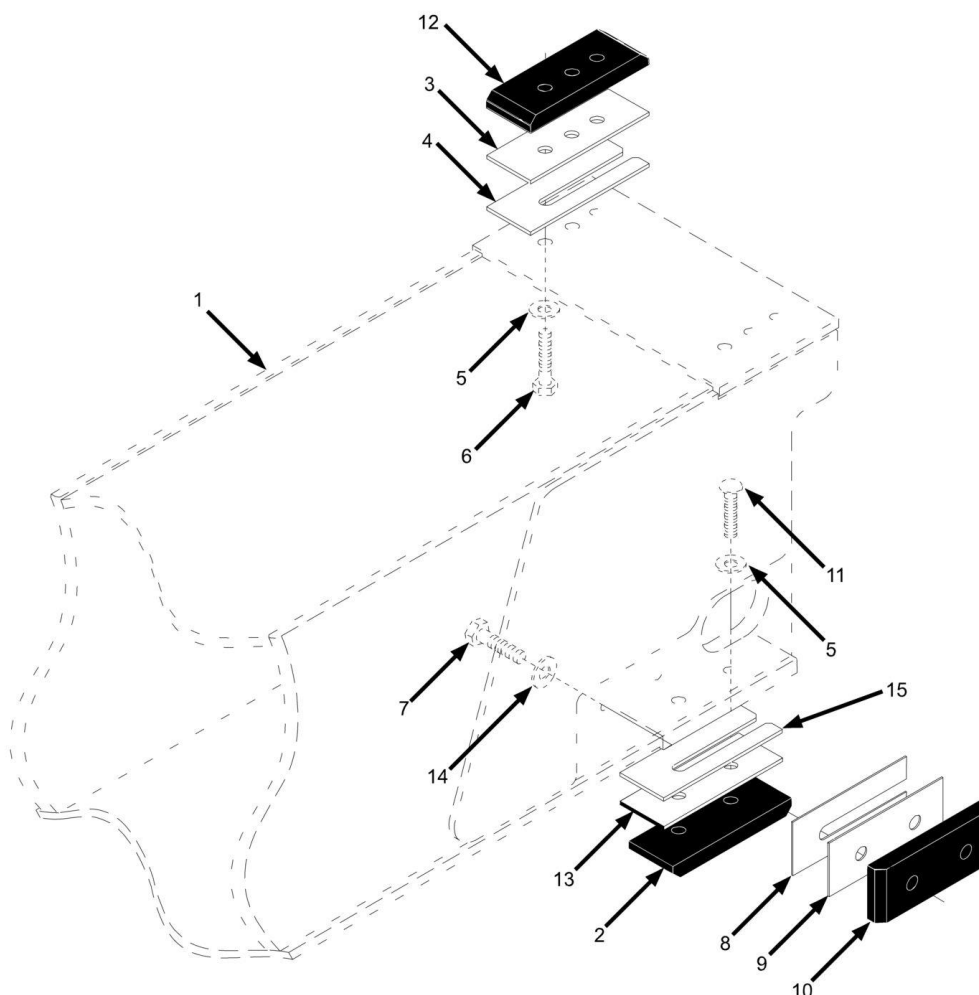
PAP11530

FIGURE 2-5. THIRD BOOM SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91516011	1	THIRD BOOM SECTION (Prior to SN 0160037671)	
1	1001102958	1	THIRD BOOM SECTION (SN 0160037671 to Present)	
2	0641610	2	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
3	4711600	6	FLAT WASHER, 3/8	
4	91511047	1	GUIDE BAR	
5	91513023	1	PUSH BEAM BEARING PAD (Prior to SN 0160037671)	
5	1001102974	1	PUSH BEAM BEARING PAD (SN 0160037671 to Present)	
6	91511048	1	CHAIN RETAINER	
7	0641607	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
8		Ref	CLEVIS 1066-834, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY, item 8 for Breakdown)	
9	0651624	2	HEX HD CAPSCREW, 3/8-24X3, GR5, (torque to 32-37 lb-ft)	
10		Ref	PUSH BEAM ASSY, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY for Breakdown)	
11		Ref	LEAF CHAIN 1066, (See PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY, item 1 for Breakdown)	
12	91513022	1	ANCHOR PIN	
13	0641607	1	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
14	88551011	1	LOCKWASHER, 3/8 (Prior to SN 0160037671)	
14	4761600	1	LOCKWASHER, 3/8 (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
15	90027470	2	HARD WASHER, 3/8	
16	91563243	4	BUSHING	

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FIGURE 2-6. BEARING PADS, SPACERS AND SHIMS, (THIRD BOOM SECTION)



NOTE: 1. WEAR PAD SHIMMING:

- A. WHENEVER A SHIM IS USED WITH A PAD, A SPACER WITH HOLES MUST BE INSERTED BETWEEN PAD & SHIM.
 - B. THE WEAR PAD OR WEAR PAD INSERT MUST NOT SIT DIRECTLY ON THE SLOTTED SURFACE OF SHIMS.
 - C. PRIOR TO SN 0160037671 ADD BEARING PAD SHIMS & SPACERS AS REQUIRED TO SHIM BOOM TO WITHIN 1/16 IN. (1.58 MM) OF A TIGHT FIT.
SN 0160037671 TO PRESENT ADD BEARING PAD SHIMS & SPACERS AS REQUIRED TO SHIM BOOM TO MAINTAIN A TOTAL MINIMUM GAP OF 0.070 TO 0.130 IN. (1.8 TO 3.3 MM) BOTH HORIZONTAL & VERTICAL DIRECTIONS.
 - D. THE LENGTH OF PAD BOLTS DEPENDS ON THE NUMBER OF THE SHIMS USED. THE BOLT CANNOT EXTEND PAST CHAMFER ON WEAR PAD.
2. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
 3. ADD MYSTIK TETRAMOLY GREASE (14404793) TO ALL PAD SLIDE PATHWAYS. IF APPLICABLE, THIS INCLUDES ALL PAD GREASE FITTINGS AT THE REAR OF BOOM.

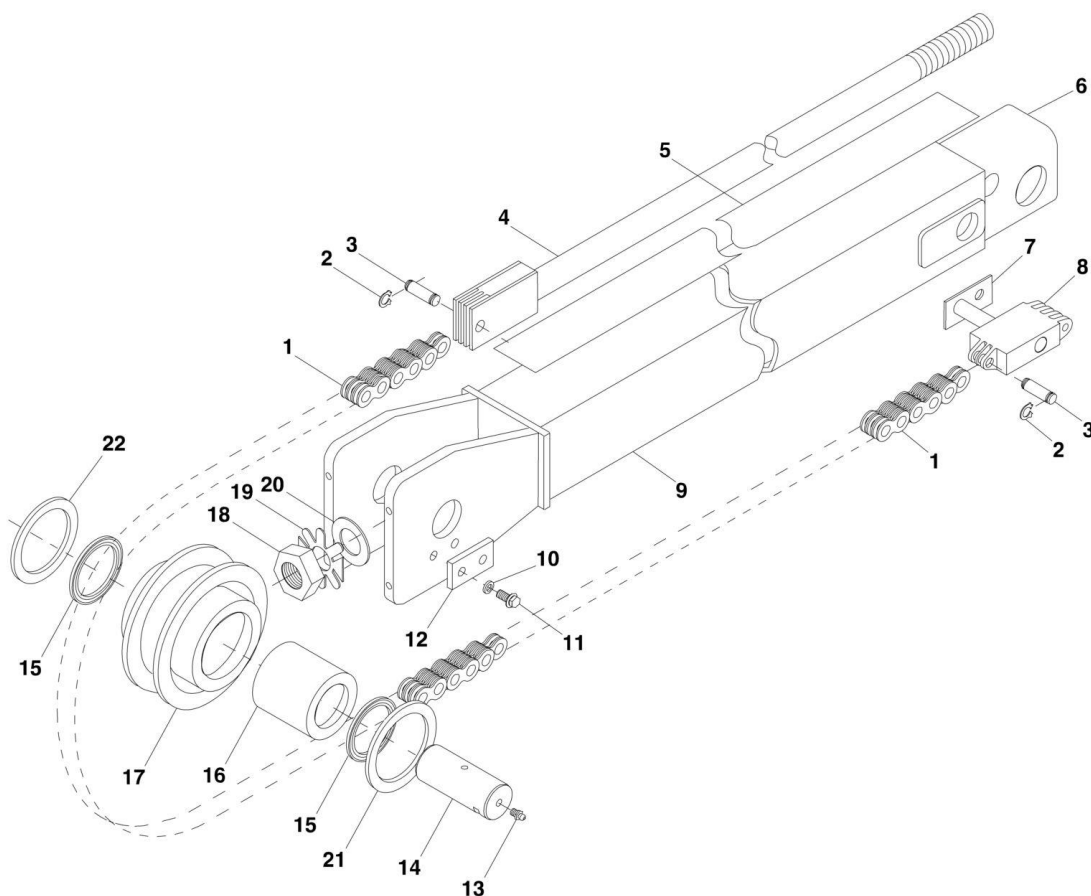
SECTION 2 - BOOM

FIGURE 2-6. BEARING PADS, SPACERS AND SHIMS, (THIRD BOOM SECTION)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	THIRD BOOM SECTION, (See THIRD BOOM SECTION for Breakdown)	
2	1001117658	2	BEARING PAD	
3	91511100	2	SPACER	
4	91511101	AR	SHIM	
4	91511102	AR	SHIM	
5	90027471	AR	HARDENED WASHER, 1/2	
6	0651810	AR	HEX HD CAPSCREW, 1/2-20X1-1/4, GR5, (torque to 76-86 lb-ft)	
6	0651811	AR	HEX HD CAPSCREW, 1/2-20X1-3/8, GR5, (torque to 76-86 lb-ft)	
6	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft)	
7	0651605	AR	HEX HD CAPSCREW, 3/8-24X5/8, GR5, (torque to 32-37 lb-ft)	
7	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft)	
7	0651607	AR	HEX HD CAPSCREW, 3/8-24X7/8, GR5, (torque to 32-37 lb-ft)	
8	91401218	AR	SHIM	
8	91401219	AR	SHIM	
9	91401225	2	SPACER	
10	91403531	2	BEARING PAD	
11	0651806	AR	HEX HD CAPSCREW, 1/2-20X3/4, GR5, (torque to 45-50 lb-ft)	
11	0651807	AR	HEX HD CAPSCREW, 1/2-20X7/8, GR5, (torque to 76-86 lb-ft)	
11	0651808	AR	HEX HD CAPSCREW, 1/2-20X1, GR5, (torque to 76-86 lb-ft)	
12	1001117656	2	BEARING PAD	
13	91511097	4	SPACER	
14	90027470	AR	HARDENED WASHER, 3/8	
15	91511098	AR	SHIM	
15	91511099	AR	SHIM	

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FIGURE 2-7. PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY (Prior to SN 0160037671)



- NOTE: 1). ADD MYSTIK TETRIMOLY GREASE (14404793) TO EXTEND CHAIN SHEAVE PIN (ITEM 14), AS REQUIRED.
 2). PRIOR TO SN 0160037671 ADD NEVER SEEZE LUBE (14403323) TO CROWD CYLINDER PIN BORE AT TIME OF ASSEMBLY. SN 0160037671 TO PRESENT COAT STATIC, NON-ROTATING, PIN BORES WITH MOLY-PASTE (3020040). DO NOT COAT THE PIN OR ANY ROTATING PARTS.
 3). ADD ITEMS 21 & 22 TO AS NECESSARY TO SHIM EXTEND CHAIN ROLLER WITHIN 1/16 IN. (1.587 MM) OF A TIGHT FIT. EXTENDED CHAIN ROLLER IS TO BE CENTERED BETWEEN PUSH BEAM PLATES. AT LEAST (1) WASHER IS TO BE USED ON EACH SIDE OF CHAIN SHEAVE.
 4). THE CLEVIS (ITEM 8), SEATS IN THE REAR OF THE THIRD BOOM SECTION, ILLUSTRATED ON SEE THIRD BOOM SECTION FOR BREAKDOWN.
 5). THE CHAIN CLEVIS ROD (ITEM 4) ATTACHES TO THE STRONG BACK (ITEM 3), ON SEE FIRST BOOM SECTION FOR BREAKDOWN. COAT ITEM 3 WITH ANTI-SEIZE LUBE (8522012).
 6). SEE THIRD BOOM SECTION FOR PUSH BEAM, CHAIN RETAINER & BEARING PADS.
 7). USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.

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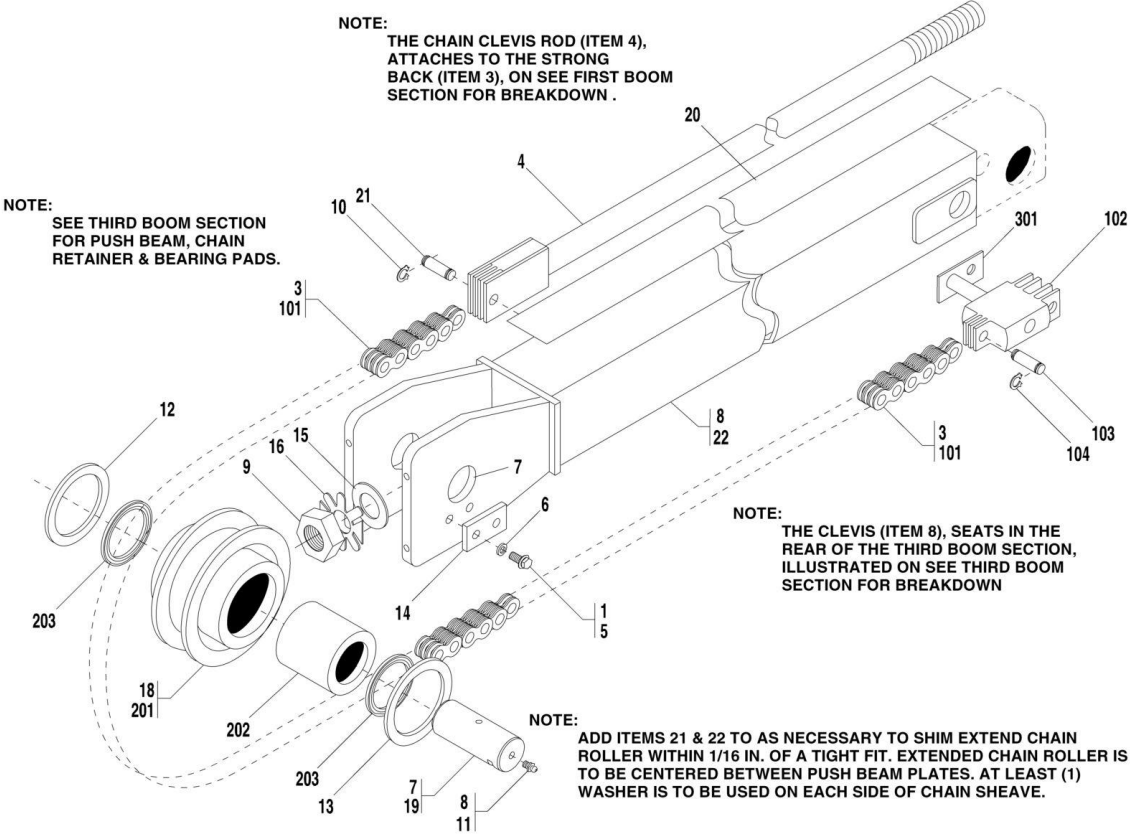
SECTION 2 - BOOM

FIGURE 2-7. PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91513028	1	EXTENTION CHAIN 1066	
2	88581115	4	SNAP RING	
3	91513176	2	CHAIN PIN	
4	0274800	1	CHAIN CLEVIS ROD ASSY	
5	91513029	160 in	UHMW TAPE	
6		Ref	CROWD CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
7		Ref	ANCHOR PIN, (See THIRD BOOM SECTION, item 12 for Breakdown)	
8	1360302	1	CLEVIS 1066-834	
9	91516008	1	PUSH BEAM WELDMENT	
10	4761800	2	FLAT WASHER, 1/2	
11	0641808	2	HEX HD CAPSCREW, 1/2-13X1, GR5	
12	91401189	1	KEEPER	
13	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
14	91513018	1	EXTEND SHEAVE PIN	
15	91403119	2	SEAL	
16	91513017	1	BUSHING	
17	91513016	1	EXTEND CHAIN ROLLER ASSY, (includes items 15 & 16)	
18	88501022	1	HEX NUT, 1-3/8-6, (torque to 155-195 lb-ft)	
19	91511142	1	TAB WASHER, (bend two tabs against nut, item 18)	
20	91403065	1	HARDENED WASHER	
21	91041596	AR	WASHER, (shim)	
22	91041451	AR	WASHER, (shim)	

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FIGURE 2-8. PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY (SN 0160037671 to Present)



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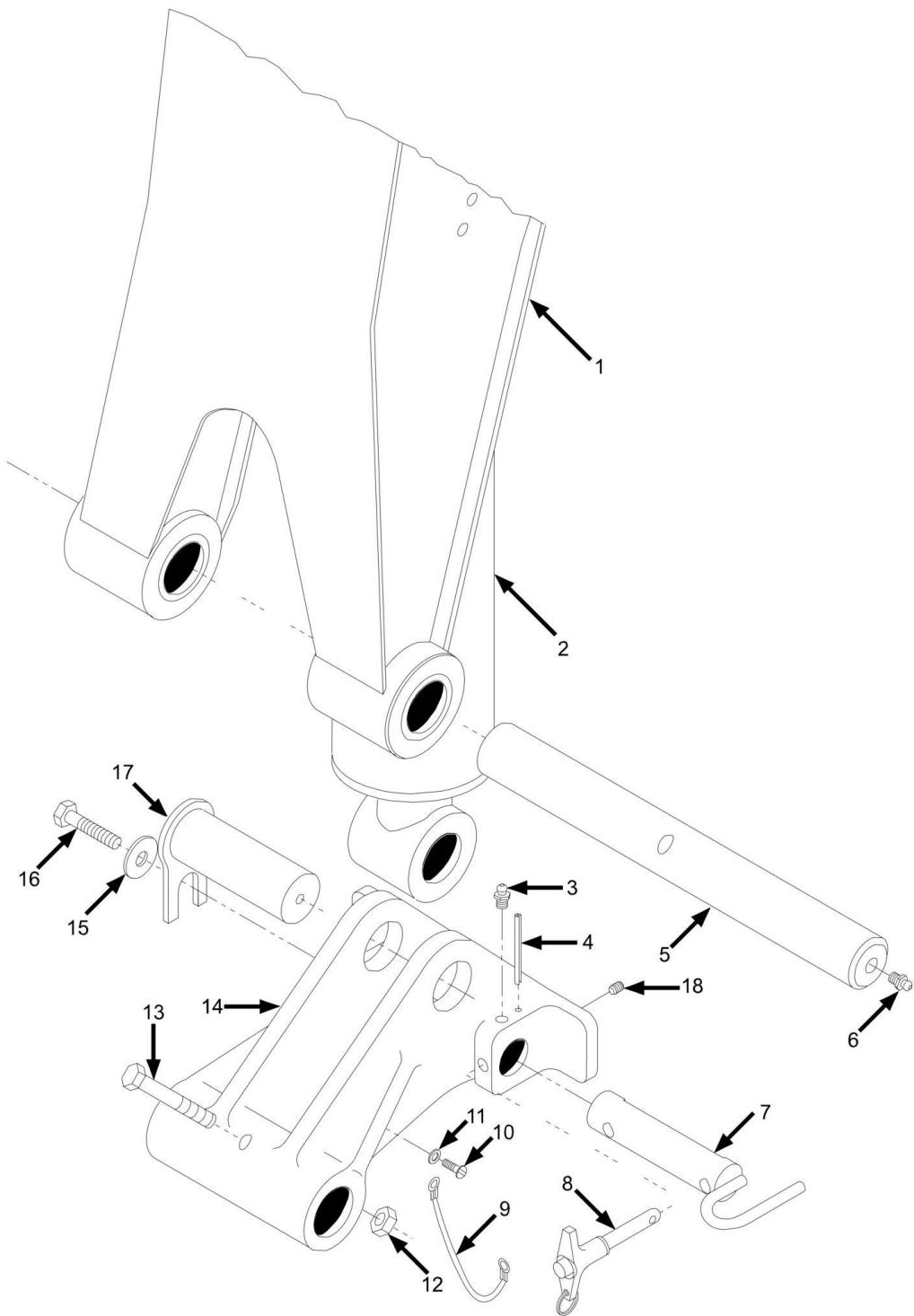
SECTION 2 - BOOM

FIGURE 2-8. PUSH BEAM/EXTEND CHAIN AND ROLLER ASSEMBLY (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275799	1	PUSH BEAM ASSY, (includes items 1 thru 22)	D
1	0100011	AR	LOCTITE 242	
3	0274676	Ref	EXTEND CHAIN INSTALL, (not available to order, see items 101 thru 105 for service)	
4	0274800	1	CHAIN CLEVIS BAR INSTALLATION	
5	0641808	2	HEX HAD CAPSCREW, 1/2-13X1, GR5	
6	4761800	2	LOCKWASHER, 1/2	
7	14403323	AR	NEVER SEEZ LUBE	
8	14404793	AR	MYSTIK TETRIMOLY GREASE	
9	88501022	1	HEX NUT, 1-3/8-6, (torque to 155-195 lb-ft)	
10	88581115	2	SNAP RING	
11	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
12	91041451	AR	WASHER, (shim)	
13	91041596	AR	WASHER, (shim)	
14	91401189	1	KEEPER	
15	91403065	1	HARDENED WASHER	
16	91511142	1	TAB WASHER	
18	91513016	1	EXTEND CHAIN ROLLER ASSY, (includes items 201 thru 203)	
19	91513018	1	EXTEND SHEAVE PIN	
20	91513029	AR	UHMW TAPE	
21	91513176	1	CHAIN PIN	
22	91516008	1	PUSH BEAM WELDMENT	
101	91513028	1	EXTEND CHAIN	
102	1360302	1	CHAIN CLEVIS	
103	91513176	1	CHAIN PIN	
104	88581115	2	SNAP RING	
105	8522012	AR	ANTI-SEIZE LUBE, (not shown)	
201	91513015	1	EXTEND CHAIN ROLLER	
202	91513017	1	BUSHING	
203	91403119	2	SEAL	
301		Ref	ANCHOR PIN, (See THIRD BOOM SECTION for Breakdown)	

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FIGURE 2-9. MANUAL QUICK SWITCH ASSEMBLY (Prior to SN 0160037671)



NOTE: 1. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.

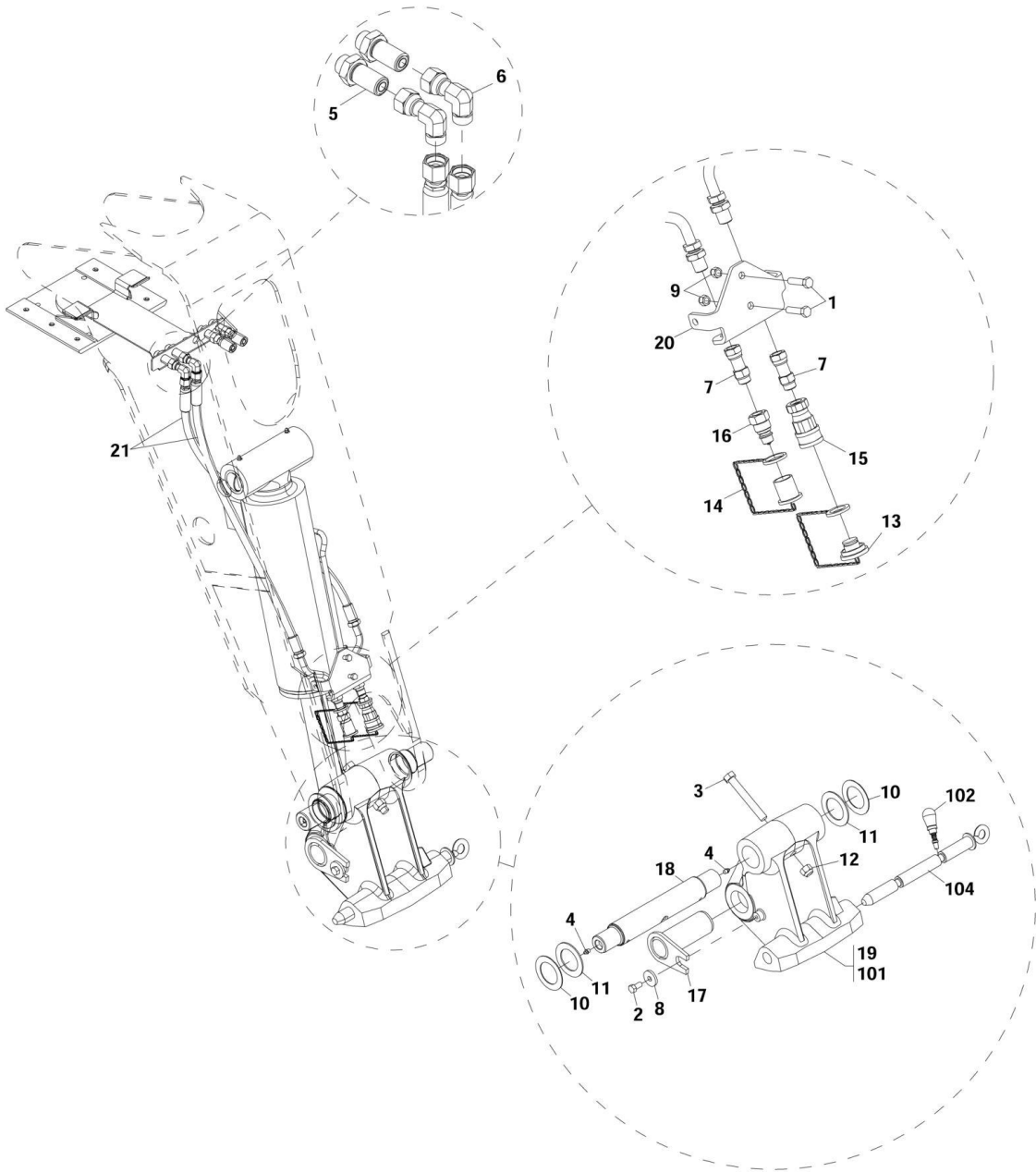
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FIGURE 2-9. MANUAL QUICK SWITCH ASSEMBLY (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91405032	1	QUICK SWITCH ASSY, (includes items 3, 4, 7 thru 11, 14 & 18)	F
		Ref	THIRD BOOM SECTION, (See THIRD BOOM SECTION for Breakdown)	
2		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	88671008	1	LUBE FITTING, STRAIGHT, 1/4-28	
4	3440832	1	ROLL PIN, 1/4X2	
5	91403020	1	HEAD PIN	
6	N.S.S.	2	LUBE FITTING	
7	91403404	1	QUICK SWITCH PIN	
8	91403407	1	QUICK RELEASE PIN	
9	91403411	1	TETHER CABLE	
10	88301193	1	ROUND HD MACHINE SCREW, #10-32X1/2	
11	88561105	1	FLAT WASHER, #10	
12	88521012	1	HEX LOCKNUT, 3/4-10	
13	91403412	1	HEX HD CAPSCREW, 1/2-13X6	
14	91403060	1	QUICK SWITCH CASTING	
15	88561006	1	FLAT WASHER, 1/2	
16	88201067	1	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
17	91403405	1	PIN WELDMENT	
18	88221276	1	SOCKET SET SCREW, (flat point), 1/2-13X1/2	

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FIGURE 2-10. MANUAL QUICK SWITCH ASSEMBLY (SN 0160037671 to Present)



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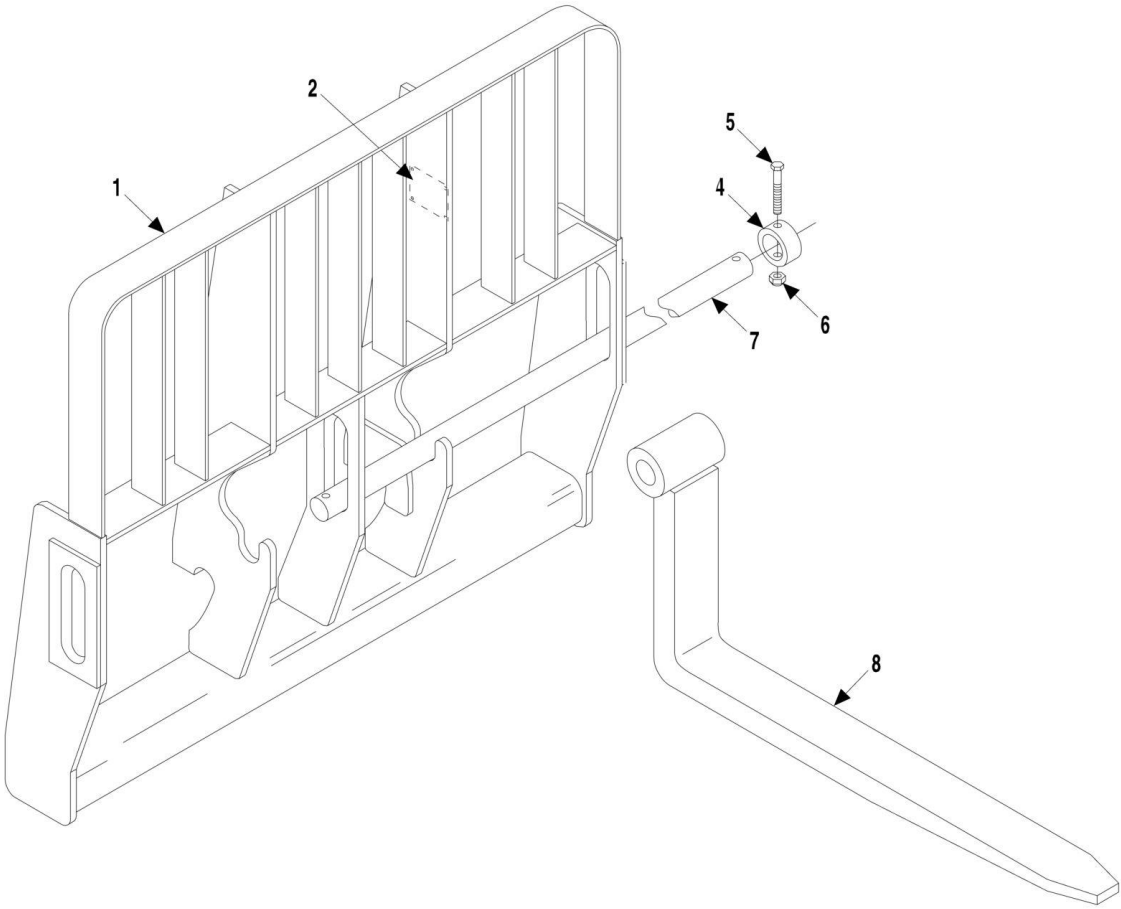
FIGURE 2-10. MANUAL QUICK SWITCH ASSEMBLY (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142788	Ref	MANUAL QUICK SWITCH INSTALLATION, (not available to order, see items 1 thru 104 for service)	A
1	0641612	2	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
2	0641808	1	HEX HD CAPSCREW, 1/2-13X1, GR5	
3	0682244	1	HEX HD CAPSCREW, 3/4-10X5-1/2, GR8	
4	2160002	2	STRAIGHT GREASE FITTING	
5	2171108	2	BULKHEAD FITTING	
6	2172108	2	ADAPTER, 90, (includes o-ring)	
7	2180849	2	ADAPTER	
8	4740003	1	WASHER, 1/2	
9	8305645	2	HEX LOCK NUT, 3/8-16	
10	8307916	AR	WASHER, SHIM	
11	8307917	AR	WASHER, SHIM	
12	8310067	1	LOCKNUT, 3/4-10	
13	91043125	1	DUST PLUG	
14	91043126	1	DUST CAP	
15	91403413	1	FEMALE QUICK CONNECT	
16	91403414	1	MALE QUICK DISCONNECT	
17	1001098218	1	PIN WELDMENT	
18	1001098233	1	PIVOT PIN	
19	1001098382	1	QUICK SWITCH COUPLING ASSY, (includes items 101 thru 104)	E
20	1001098425	1	BRACKET	
21	1001099890	2	HOSE ASSY	
101	1001098174	1	QUICK SWITCH COUPLER	
102	1001143692	1	POPPIN PIN ASSY	
104	1001105441	1	QUICK SWITCH LOCK PIN	

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FIGURE 3-1. TILT CARRIAGE (Prior to SN 0160028566)



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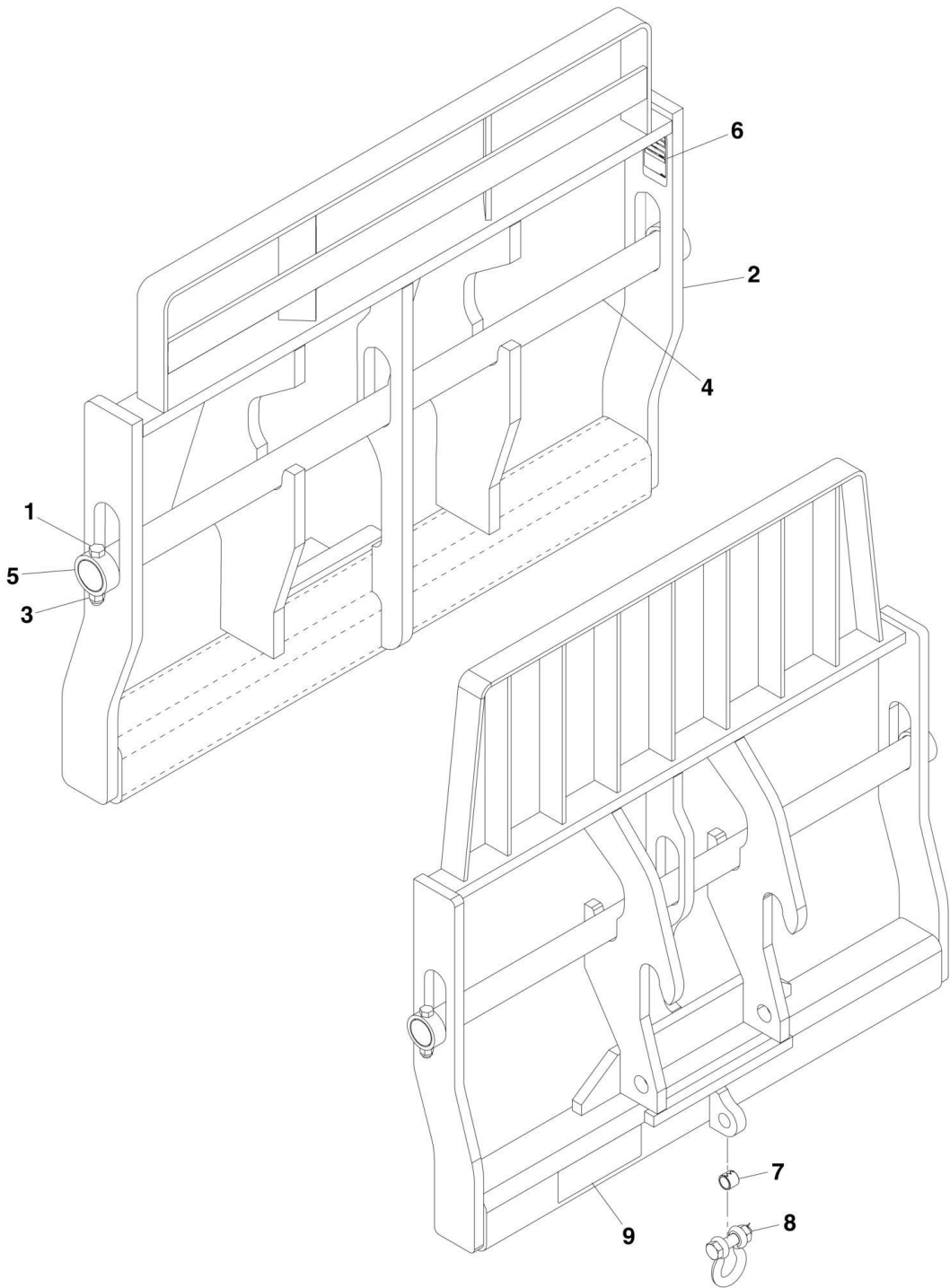
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FIGURE 3-1. TILT CARRIAGE (Prior to SN 0160028566)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405073	1	48 IN CARRIAGE ASSY, (includes items 1 thru 7)	D
	91405074	1	72 IN CARRIAGE ASSY, (includes items 1 thru 7)	D
1	N.S.S.	1	48 IN CARRIAGE WELDMENT	
1	N.S.S.	1	72 IN CARRIAGE WELDMENT	
2	N.S.S.	1	SN PLATE	
4	90200003	2	COLLAR	
5	88201105	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
6	88521310	2	HEX LOCKNUT, 5/8-11, (nylok)	
7	91401303	1	FORK PIN, (48 in carriage)	
7	91401324	1	FORK PIN, (72 in carriage)	
8		Ref	FORK, (See FORKS for Breakdown)	

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FIGURE 3-2. TILT CARRIAGE (SN 0160028566 to Present)



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FIGURE 3-2. TILT CARRIAGE (SN 0160028566 to Present)

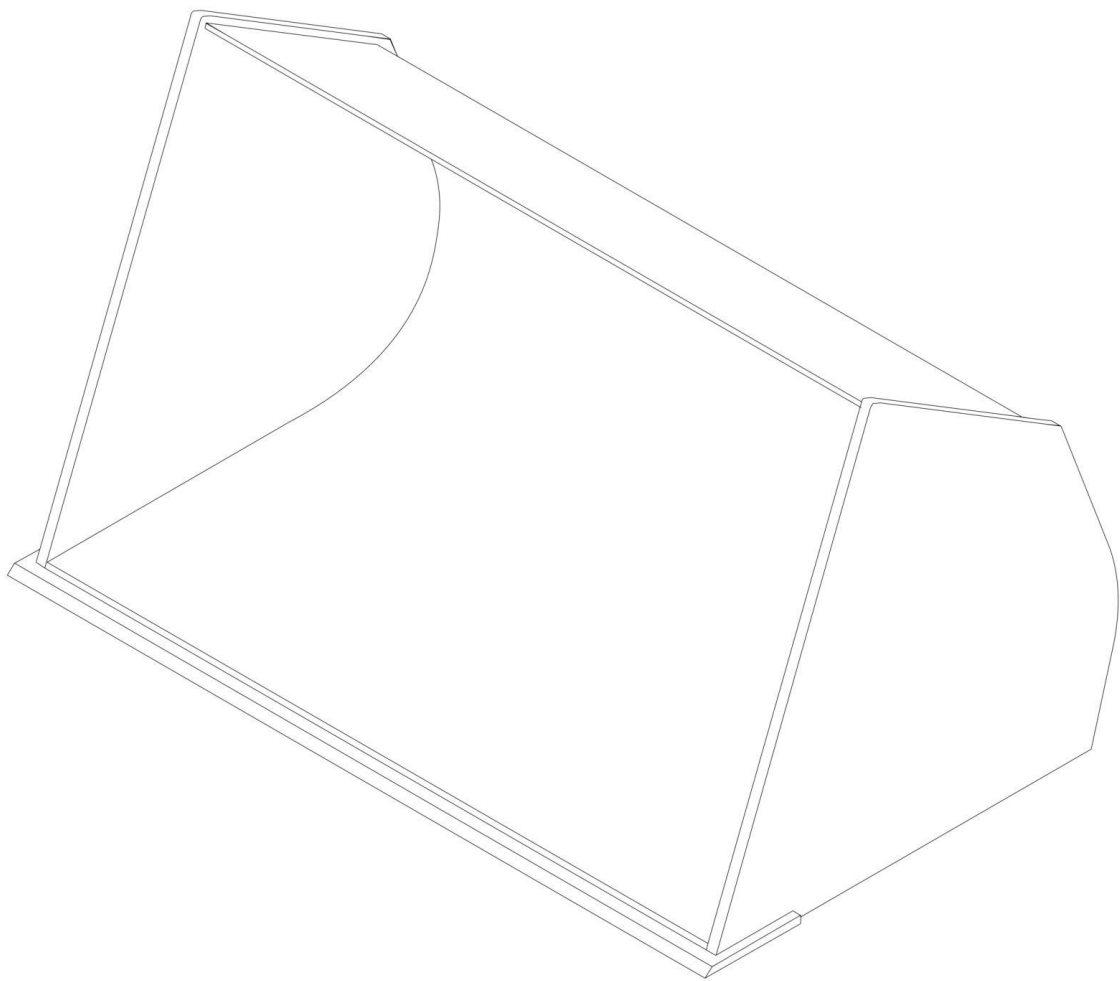
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170019	1	50 IN TILT CARRIAGE, (includes items 1 through 6) (SN 0160028566 through 0160037665)	C
	1170021	1	50 IN TILT CARRIAGE, (includes items 1 through 6) (SN 016003766 through 0160051902, Excluding 0160051085, 0160051086, 0160051087, 0160051088, 0160051101, 0160051206, 0160051207, 0160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	E
	1001146084	1	50 IN TILT CARRIAGE, (includes all items) (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	C
	1170022	1	60 IN TILT CARRIAGE, (includes items 1 through 6) (SN 0160028566 through 0160037665)	C
	1170024	1	60 IN TILT CARRIAGE, (includes items 1 through 6) (SN 0160037666 through 0160051902, Excluding 0160051085, 0160051086, 0160051087, 0160051088, 0160051101, 0160051206, 0160051207, 0160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	E
	1001146086	1	60 IN TILT CARRIAGE, (includes all items) (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	C
	1170025	1	72 IN TILT CARRIAGE, (includes items 1 through 6) (SN 0160028566 through 0160037665)	C
	1170027	1	72 IN TILT CARRIAGE, (includes items 1 through 6) (SN 0160037666 through 0160051902, Excluding 0160051085, 0160051086, 0160051087, 0160051088, 0160051101, 0160051206, 0160051207, 0160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	D
	1001132514	1	72 IN TILT CARRIAGE, (includes items 1 through 6) (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 0051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	B
	1001146088	1	72 IN TILT CARRIAGE, (includes all items) (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	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	50 IN FORK PIN	
4	3423242	1	60 IN FORK PIN	
4	3423276	1	72 IN FORK PIN	
5	90200003	2	COLLAR	
6	N.S.S.	1	SN PLATE	
7	1001146159	1	SLEEVE (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368,	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
8	1001146160	1	0160051376, 0160051378, 0160051381, 0160051382 and 0160051387) SHACKLE BOLT (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	
9	1001151561	1	WARNING SWINGING LOADS DECAL (SN 160051085 to Present, Including 0160051088, 0160051101, 160051206, 160051207, 160051208, 0160051209, 0160051220, 0160051223, 0160051232, 0160051368, 0160051376, 0160051378, 0160051381, 0160051382 and 0160051387)	

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FIGURE 3-3. BUCKETS



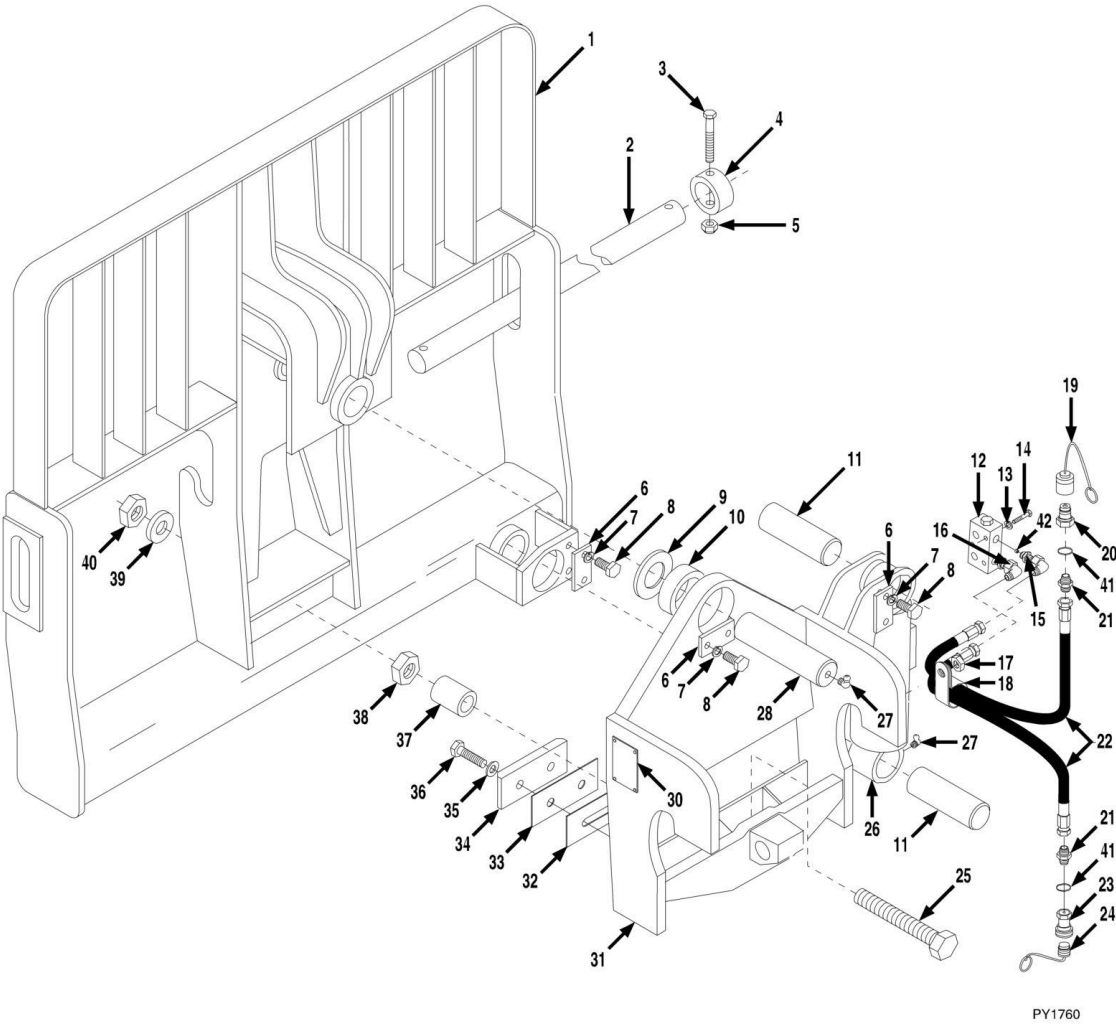
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FIGURE 3-3. BUCKETS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405054	1	60 IN BUCKET, 3/4 ³ YARD (Prior to SN 0160037671)	
	1001100822	1	72 IN BUCKET, 1.0 ³ YARD (SN 0160037671 to Present)	
	91405055	1	74 IN BUCKET, 1-1/4 ³ YARD (Prior to SN 0160037671)	
	1001100823	1	96 IN BUCKET, 1.5 ³ YARD (SN 0160037671 to Present)	
	91405071	1	102 IN BUCKET, 1-1/4 ³ YARD (Prior to SN 0160037671)	
	1001100824	1	102 IN BUCKET, 2.0 ³ YARD (SN 0160037671 to Present)	

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FIGURE 3-4. SIDE TILT CARRIAGE (Prior to SN 0160037671)



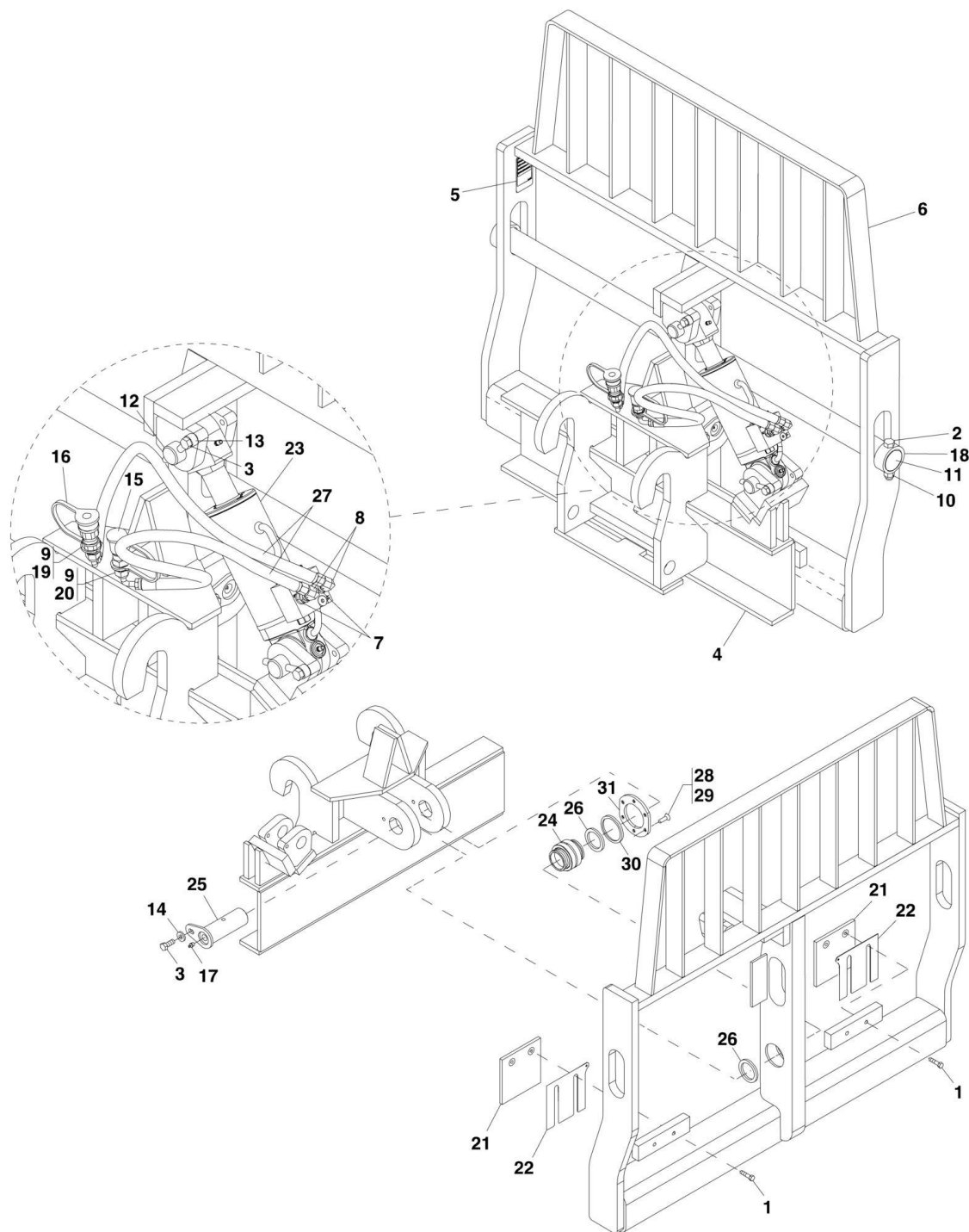
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FIGURE 3-4. SIDE TILT CARRIAGE (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405101	1	48 IN TILT CARRIAGE, (includes all items)	O
	91405079	1	72 IN TILT CARRIAGE, (includes all items)	T
1	N.S.S.	1	48 IN CARRIAGE WELDMENT	
1	N.S.S.	1	72 IN CARRIAGE WELDMENT	
2	91401324	1	FORK PIN, (72 in carriage)	
2	91401303	1	FORK PIN, (48 in carriage)	
3	88201105	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
4	90200003	2	COLLAR	
5	88521310	2	HEX LOCKNUT, 5/8-11, (nylok)	
6	91081313	3	KEEPER PLATE	
7	88551013	6	LOCKWASHER, 1/2	
8	88201065	6	HEX HD CAPSCREW, 1/2-13X1, GR5	
9	91081594	1	THRUST WASHER	
10	91083248	1	BUSHING	
11	3423263	2	PIN, (sway cyl)	
12		Ref	SWAY CYLINDER VALVE, (See OPTIONS SECTION for Breakdown)	
13	88551009	3	LOCKWASHER, 1/4	
14	88201008	3	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
15	91081630	2	MODIFIED CONNECTOR	
16	8760268	2	ELBOW, 90, (swivel nut)	
17	77143015	1	WHIZ-LOCK NUT, 3/8-16	
18	84521062	1	SUPPORT CLAMP	
19	91043126	1	DUST CAP	
20	91403414	1	MALE QUICK DISCONNECT	
21	2220372	2	CONNECTOR, (includes item 41)	
22	84719223	2	HOSE ASSY	
23	91403413	1	FEMALE QUICK DISCONNECT	
24	91043125	1	DUST PLUG	
25	91081577	1	TAP BOLT	
26		Ref	SWAY CYLINDER, (See OPTIONS SECTION for Breakdown)	
27	88671022	2	LUBE FITTING, 90, 1/8	
28	91081622	1	PIN, (adapter weldment)	
30	N.S.S.	1	SN PLATE	
31	91406048	1	ADAPTER WELDMENT	
32	90205870	AR	SHIM, (16 GA)	
33	91031236	2	SPACER, (.06 thick)	
34	91033186	2	BEARING PAD	
35	88561109	4	FLAT WASHER, 3/8	
36	88201534	4	HEX HD CAPSCREW, 3/8-24X1, GR5	
36	88201535	4	HEX HD CAPSCREW, 3/8-24X1-1/4, GR5	
37	90204007	1	TUBE	
38	88521016	1	HEX LOCKNUT, 1-8	
39	05101441	1	WASHER, 1-1/16	
40	88501016	1	HEX NUT, 1-8	
41	88591205	2	O-RING	
42	91041387	2	ORIFICE PLUG	

SECTION 3 - ATTACHMENTS

FIGURE 3-5. SIDE TILT CARRIAGE (SN 0160037671 to Present)



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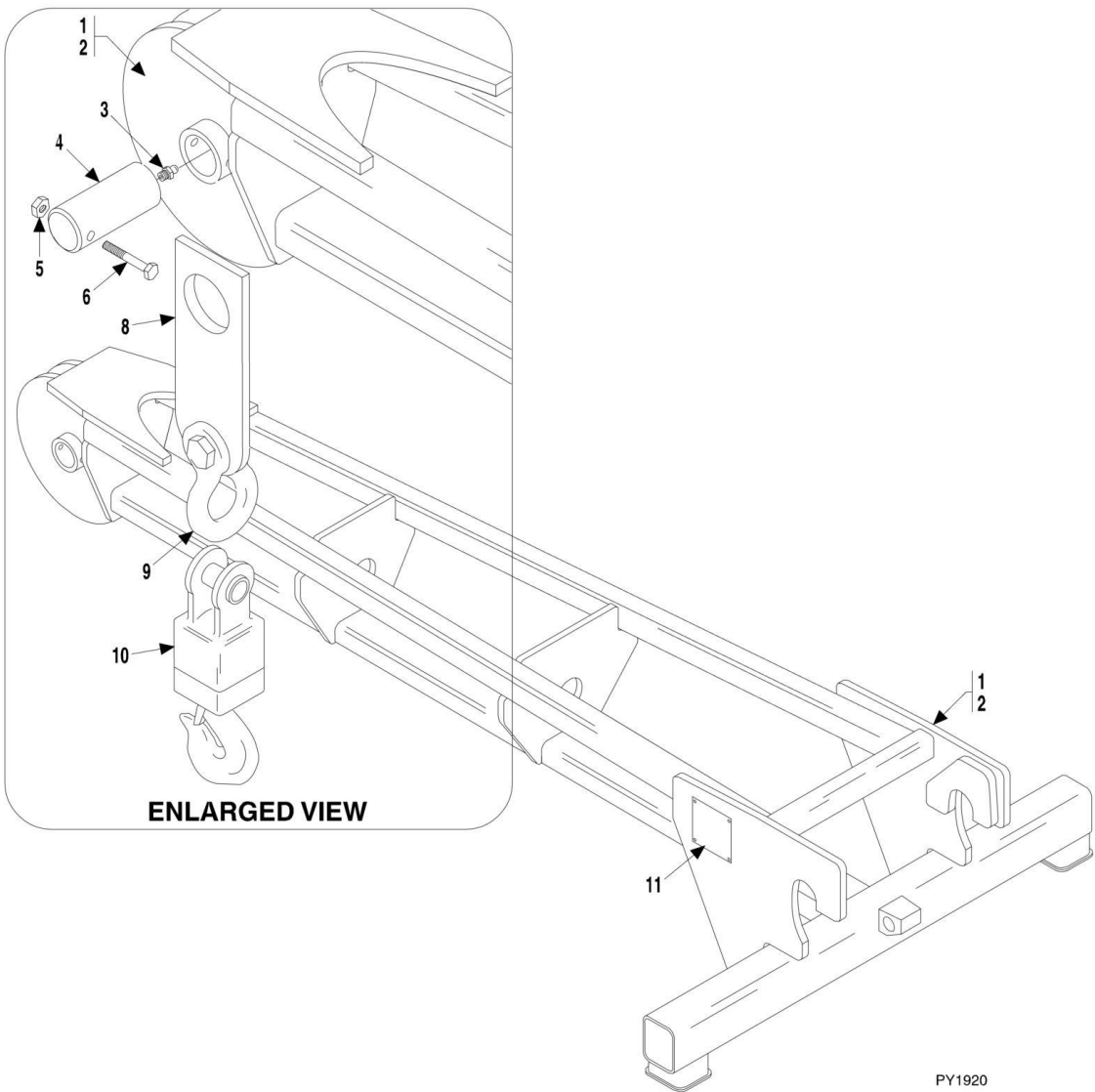
SECTION 3 - ATTACHMENTS

FIGURE 3-5. SIDE TILT CARRIAGE (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170054	1	50 IN SIDE TILT CARRIAGE, (includes all items)	J
	1001101956	1	60 IN SIDE TILT CARRIAGE, (includes all items)	J
	1170057	1	72 IN 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	50 IN FORK PIN	
11	3423242	1	60 IN FORK PIN	
11	3423276	1	72 IN FORK PIN	
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	HYDRAULIC 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	
29	0741610	6	FLAT HD SOCKET SCREW, 3/8-16	
30	1001120914	1	BEARING RETAINER SHIM	
31	1001120915	1	BEARING RETAINER PLATE	

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FIGURE 3-6. TRUSS BOOM (Prior to SN 0160037671)



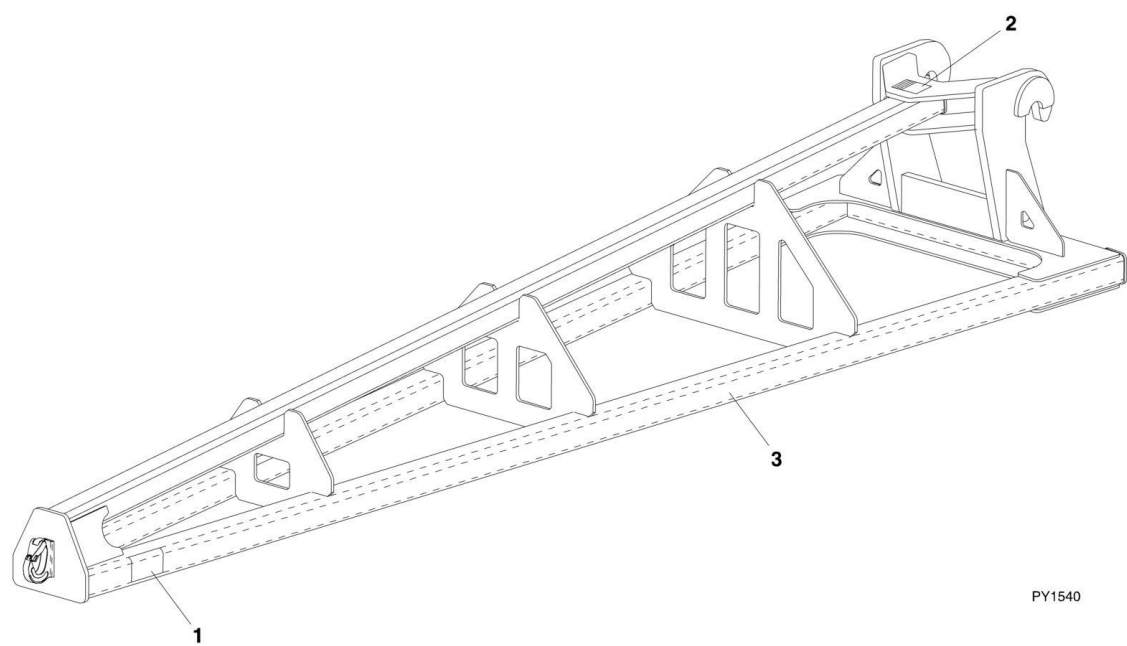
SECTION 3 - ATTACHMENTS

FIGURE 3-6. TRUSS BOOM (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405083	1	10 FT TRUSS BOOM ASSY, (includes all items, except item 2)	D
	91405082	1	15 FT TRUSS BOOM ASSY, (includes all items, except item 1)	D
1	N.S.S.	1	10 FT TRUSS BOOM WELDMENT	
2	N.S.S.	1	15 FT TRUSS BOOM WELDMENT	
3	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
4	90402948	1	PIN	
5	88501008	1	HEX NUT, 1/2-13	
6	88201073	1	HEX HD CAPSCREW, 1/2-13X3, GR5	
8	90451053	1	HANGER	
9	90453041	1	SHACKLE	
10	90453040	1	SWIVEL HOOK	
10	91164440	1	SAFETY LATCH KIT	
11	N.S.S.	1	ATTACHMENT SN PLATE	

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FIGURE 3-7. TRUSS BOOM (SN 0160037671 to Present)



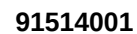
SECTION 3 - ATTACHMENTS

FIGURE 3-7. TRUSS BOOM (SN 0160037671 to Present)

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

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G9-43A/G10-43A



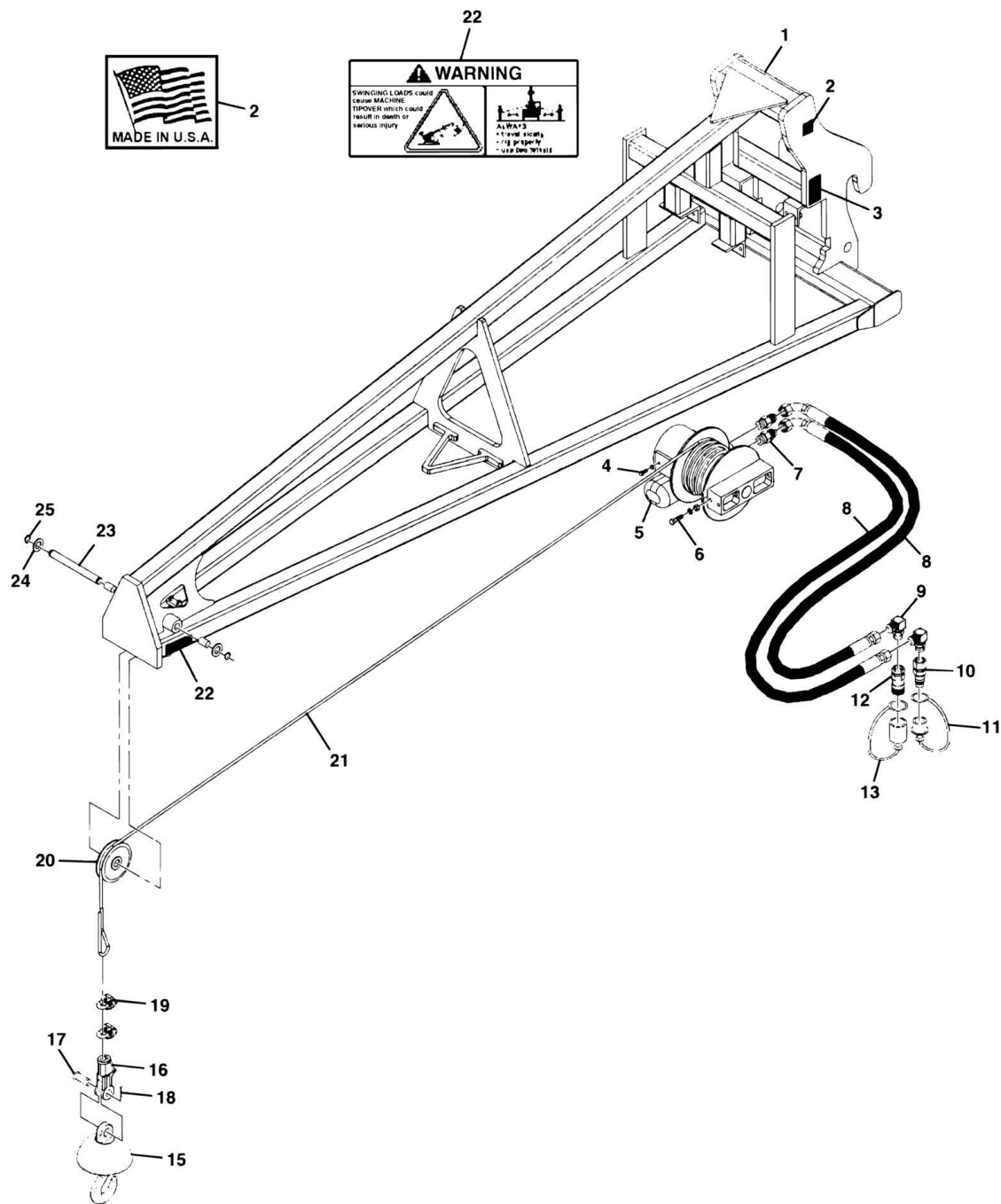
SECTION 3 - ATTACHMENTS

FIGURE 3-8. TRUSS BOOM WITH WINCH (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405081	1	10 FT TRUSS BOOM WITH WINCH, (includes items 1 & 3 thru 35)	O
	91405080	1	15 FT TRUSS BOOM WITH WINCH, (includes items 2 thru 35)	O
1	N.S.S.	1	10 FT TRUSS BOOM WELDMENT	
2	N.S.S.	1	15 FT TRUSS BOOM WELDMENT	
3		Ref	WINCH WITH MOTOR, (See OPTIONS SECTION for Breakdown)	
4	N.S.S.	1	SN PLATE	
6	90403056	1	SHEAVE	
7	2220385	1	SWIVEL NUT RUN TEE, 1/2 TUBE	
8	90402948	1	PIN	
9	88201073	1	HEX HD CAPSCREW, 1/2-13X3, GR5	
10	88501008	1	HEX NUT, 1/2-13	
11	88671001	1	LUBE FITTING, STRAIGHT, 1/8	
12	90207882	1	WIRE ROPE, 3/8 IA	
13	91403448	1	SWIVEL HOOK	
14	90026965	1	THIMBLE	
15	90028990	2	WIRE ROPE CLIP	
16	83201062	4	HEX HD CAPSCREW, 5/8-11X2-1/4	
17	88501010	4	HEX NUT, 5/8-11	
18	90027472	4	HARDENED WASHER, 5/8	
19	84717593	2	HOSE ASSY	
20	91403414	1	MALE QUICK DISCONNECT	
21	91403413	1	FEMALE QUICK DISCONNECT	
22		Ref	TRUSS BOOM PRESSURE REDUCER VALVE, (See OPTIONS SECTION for Breakdown)	
23	88201024	2	HEX HD CAPSCREW, 5/16-18X2, GR5	
24	88501005	2	HEX NUT, 5/16-18	
25	88551010	2	LOCKWASHER, 5/16	
26	84719732	2	HOSE ASSY	
27	2220374	1	CONNECTOR, (includes item 33)	
28	2220596	2	ELBOW, 90, (includes item 34)	
29	2220726	2	ELBOW, 90	
30	2220499	1	ELBOW, 45, (includes item 33)	
33	88591206	2	O-RING	
34	88591205	4	O-RING	
35	2220373	2	CONNECTOR, (includes two of item 34)	
36	91043125	1	DUST PLUG	
37	91043126	1	DUST CAP	

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FIGURE 3-9. TRUSS BOOM WITH WINCH (SN 0160037671 to Present)



PAP3440

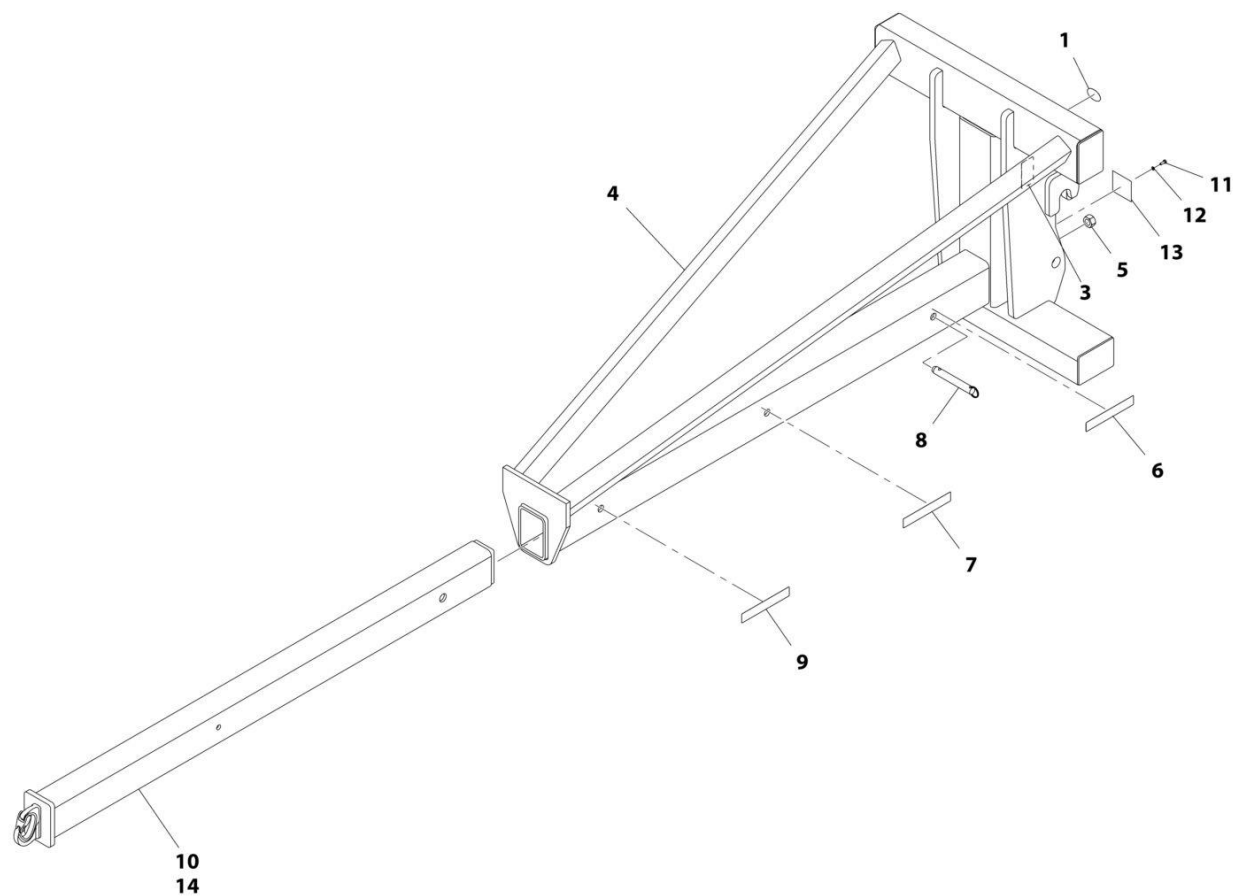
SECTION 3 - ATTACHMENTS

FIGURE 3-9. TRUSS BOOM WITH WINCH (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099351	1	12 FT TRUSS BOOM WITH WINCH, (includes all items)	F
1	N.S.S.	1	TRUSS BOOM FRAME	
2	90554016	1	MADE IN 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, 1/2X1-3/4	
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	70022527	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	
17	N.S.S.	1	PIN	
18	N.S.S.	1	COTTER PIN	
19	70022528	2	CLAMP	
20	70021935	1	PULLEY	
21	70022028	1	CABLE	
22	4110422	2	WARNING SWINGING LOADS DECAL	
23	70022529	1	PIN	
24	N.S.S.	2	FLAT WASHER, 1	
25	N.S.S.	2	SNAP RING	

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FIGURE 3-10. ADJUSTABLE TRUSS BOOM



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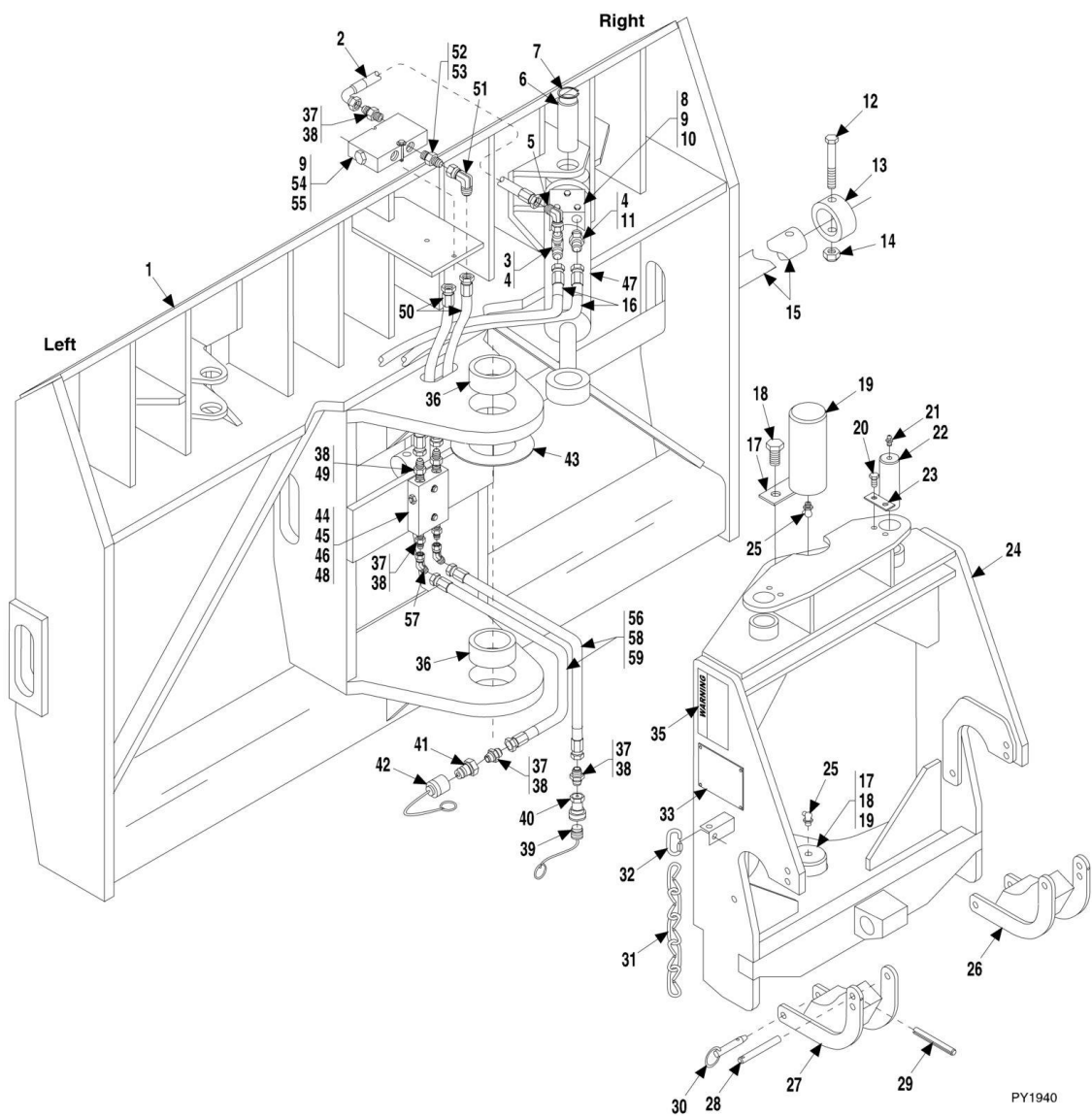
SECTION 3 - ATTACHMENTS

FIGURE 3-10. ADJUSTABLE TRUSS BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176515	1	ADJUSTABLE TRUSS BOOM	A
1	90554016	1	DECAL, MADE IN USA	
3	N.S.S.	1	SN PLATE	
4	N.S.S.	1	TRUSS BOOM, ADJUSTABLE	
5	70021440	1	NUT, LOCK	
6	70024062	2	DECAL, 4000 LBS CAP	
7	70026944	2	DECAL, 3000 LBS CAP	
8	70026946	1	PIN	
9	70026699	2	DECAL, 2000 LBS CAP	
10	70026747	1	STOP ROD, BOOM EXTENSION	
11	90554033	1	BOLT, 3/4X1/4	
12	90554034	1	WASHER, LOCK 1/4	
13	70026948	1	PLATE, STOP	
14	70026949	1	BOOM, TELESCOPIC	

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FIGURE 3-11. SWING CARRIAGE (Prior to SN 0160037671)



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FIGURE 3-11. SWING CARRIAGE (Prior to SN 0160037671)

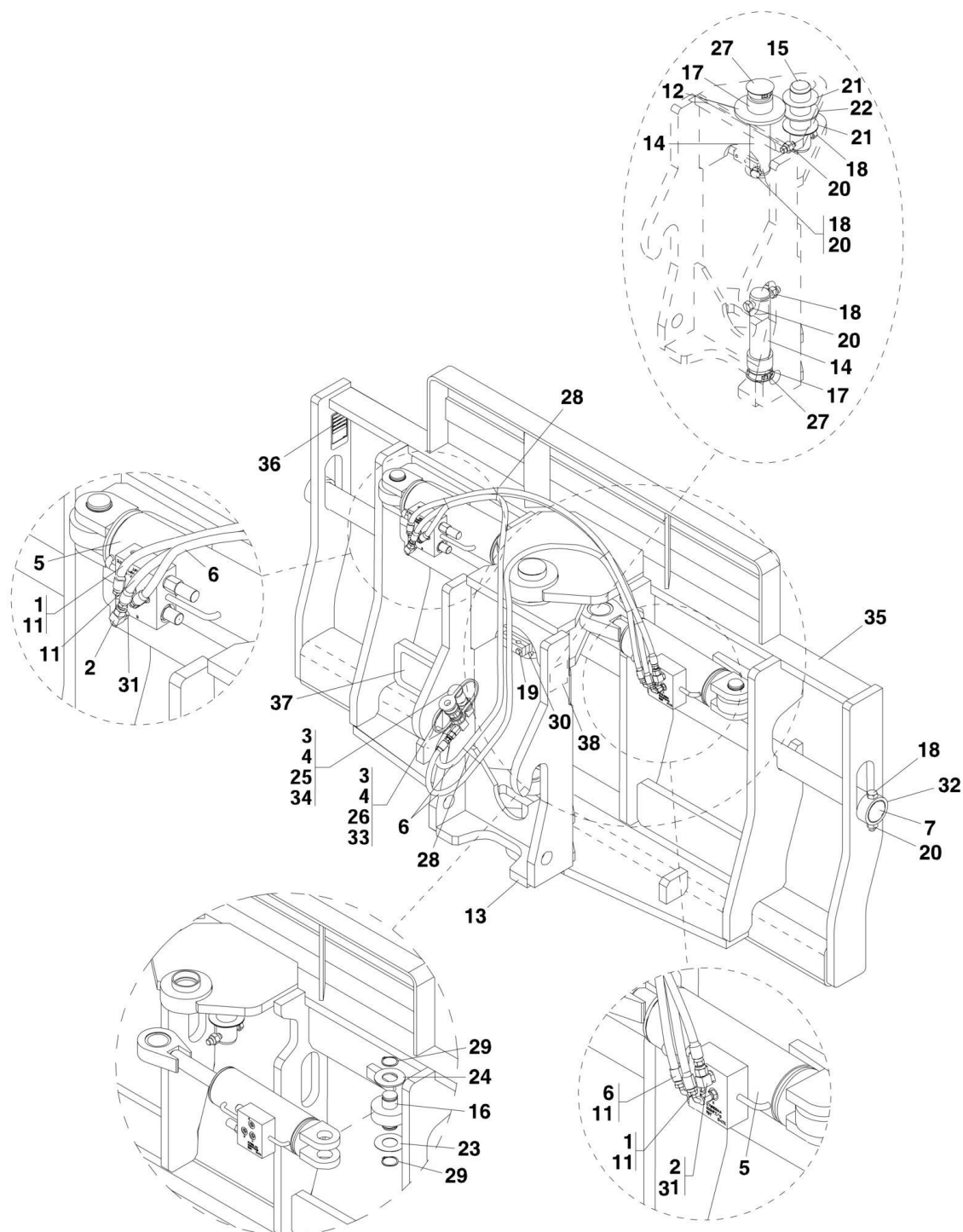
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405075	1	100, SWING CARRIAGE, 72 IN, (includes all items)	O
1	N.S.S.	1	CARRIAGE WELDMENT	
2	84719167	2	HOSE ASSY	
3	2220606	2	RUN TEE, (includes item 4)	
4	88591204	4	O-RING	
5	8760268	2	ELBOW, 90, (swivel nut)	
6	91041326	2	PIVOT PIN, (swing cyl)	
7	88581136	4	SNAP RING	
8	91413100	2	MANIFOLD BLOCK	
9	88201008	8	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
10	88551009	6	LOCKWASHER, 1/4	
11	2220371	2	CONNECTOR, (includes item 4)	
12	88201105	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
13	90200003	2	COLLAR	
14	88521310	2	HEX LOCKNUT, 5/8-11	
15	91401324	1	FORK PIN	
16	84719197	2	HOSE ASSY	
17	91041322	2	LOCKING PLATE	
18	83201026	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR8	
19	91041325	2	PIVOT PIN	
20	83201024	4	HEX HD CAPSCREW, 3/8-16X1, GR8	
21	88671008	2	LUBE FITTING, STRAIGHT, 1/4-28	
22	91041324	2	PIVOT PIN	
23	91411073	2	LOCKING PLATE	
24	N.S.S.	1	PIVOT WELDMENT	
25	88671018	2	LUBE FITTING, 45, 1/8	
26	91406070	1	RH SUPPORT BRACKET	
27	91406069	1	LH SUPPORT BRACKET	
28	91401266	2	PIN	
29	88631449	2	ROLL PIN, 1/8X1-1/2	
30	91043221	2	DETENT PIN	
31	91033038	24 in	CHAIN	
32	91033039	2	CHAIN CONNECTION	
33	N.S.S.	1	SN PLATE	
35	91143282	2	PINCH POINT DECAL	
36	91041327	2	BUSHING	
37	2220372	6	CONNECTOR, (includes item 38)	
38	88591205	8	O-RING	
39	91043125	1	DUST PLUG	
40	91403413	1	FEMALE QUICK DISCONNECT	
41	91403414	1	MALE QUICK DISCONNECT	
42	91043126	1	DUST CAP	
43	91041356	6	SPACER	
44	91413099	1	RELIEF VALVE	
45	88201029	2	HEX HD CAPSCREW, 5/16-18X3-1/4, GR5	
46	88551010	2	LOCKWASHER, 5/16	
47		Ref	SWING CYLINDER, (See OPTIONS SECTION for Breakdown)	
47	91404381	2	SEAL KIT	
48	88501005	2	HEX NUT, 5/16-18	
49	2220373	2	CONNECTOR, (includes item 38)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	84719760	2	HOSE ASSY	
51	8765204	2	ELBOW, 90, (swivel nut)	
52	91041361	2	MODIFIED FITTING	
53	91411050	2	ORIFICE	
54	88561002	2	FLAT WASHER, 1/4	
55	91043186	1	DOUBLE PILOT CHECK VALVE	
56	84718208	2	HOSE ASSY	
57	2220657	2	ELBOW, 45, (swivel nut)	
58	71492142	24 in	FLEX LOOM	
59	86683122	4	TIE WRAP	

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FIGURE 3-12. SWING CARRIAGE (SN 0160037671 to Present)



PAP3360

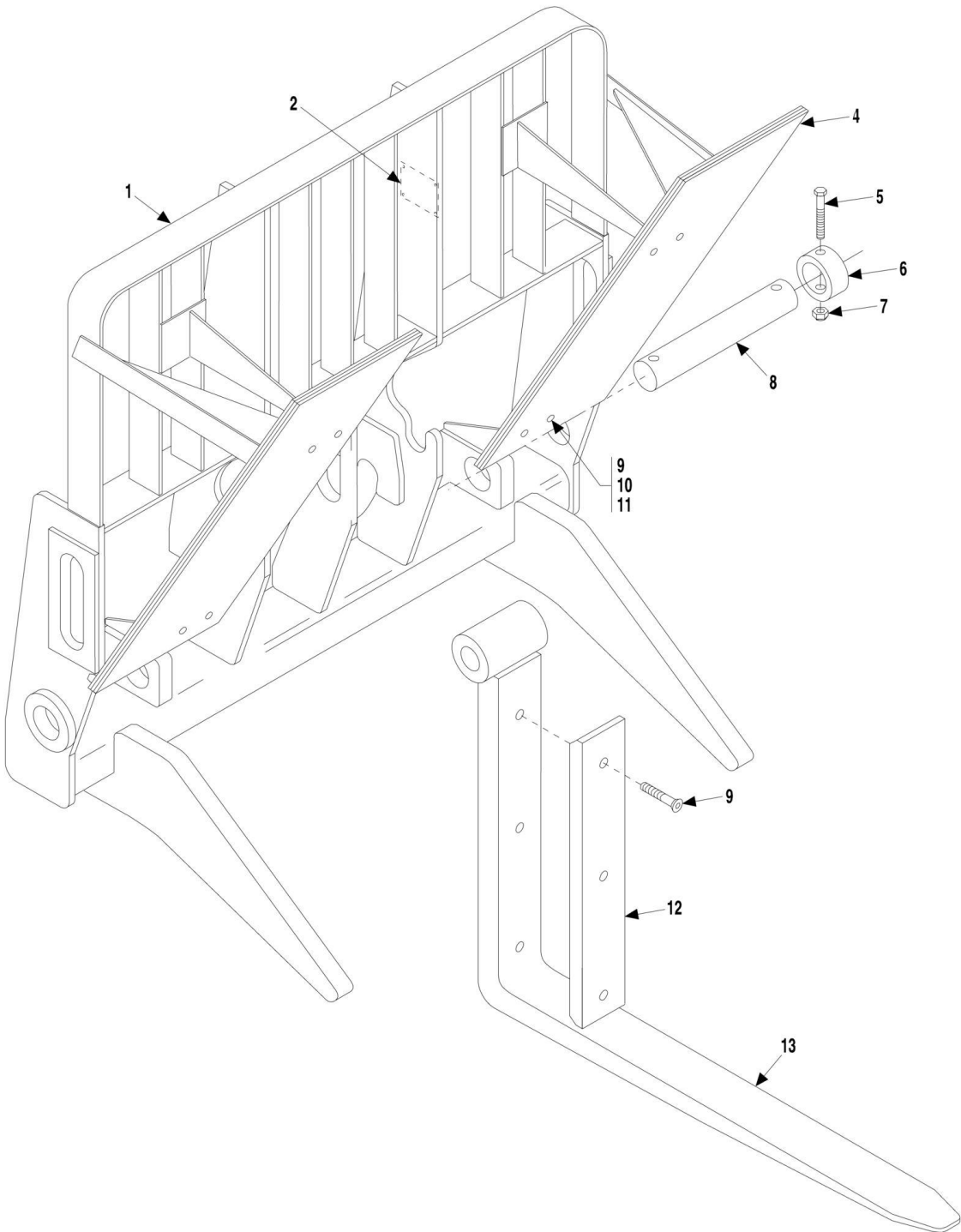
SECTION 3 - ATTACHMENTS

FIGURE 3-12. SWING CARRIAGE (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001095418	1	90, SWING CARRIAGE, 72 IN (includes all items)	K
1	2220415	4	CONNECTOR	
2	2220473	2	CONNECTOR, 90	
3	2220609	2	CONNECTOR	
4	2220628	2	CONNECTOR, 90	
5		Ref	SWING 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	91043126	1	DUST CAP	
26	91043125	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	FEMALE QUICK DISCONNECT	
34	91403414	1	MALE QUICK DISCONNECT	
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 3-13. SHEET MATERIAL HANDLER (Prior to SN 0160037671)



PY1960

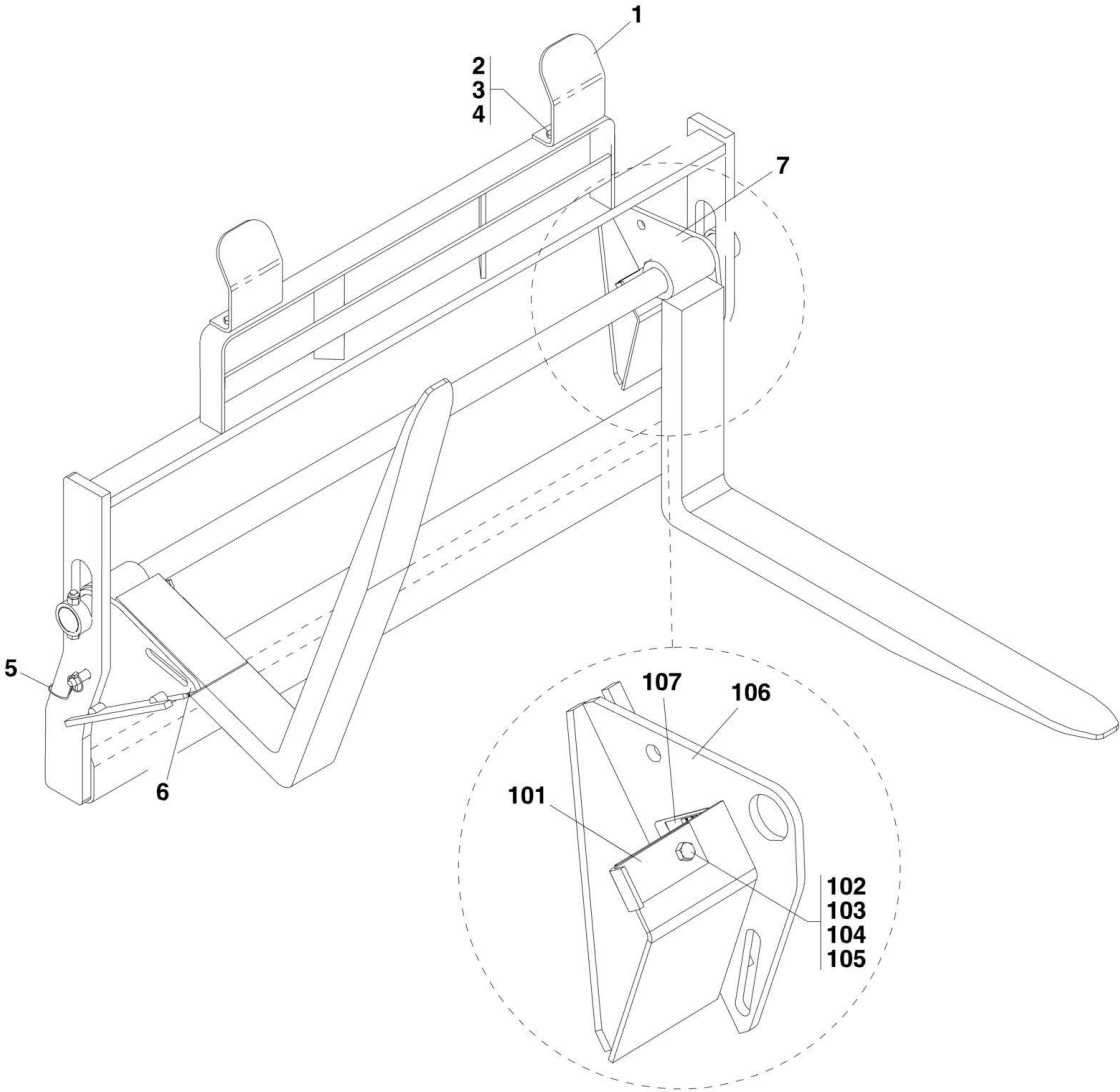
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FIGURE 3-13. SHEET MATERIAL HANDLER (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405077	1	SHEET MATERIAL HANDLER ASSY, (includes all items)	E
1	N.S.S.	1	CARRIAGE WELDMENT	
2	N.S.S.	1	ATTACHMENT SN PLATE	
4	90553012	2	SIDE DRYWALL GUARD	
5	88201105	4	HEX HD CAPSCREW, 5/8-11X4, GR5	
6	90200003	4	COLLAR	
7	88521310	4	HEX LOCKNUT, 5/8-11, (nylok)	
8	91401340	2	FORK PIN	
9	88241053	14	SOCKET FLAT HD CAPSCREW, 3/8-16X1-1/2	
10	88551011	8	LOCKWASHER, 3/8	
11	88501006	8	HEX NUT, 3/8-16	
12	90553013	2	BOTTOM DRYWALL GUARD	
13	91403366	2	DRYWALL FORK	

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FIGURE 3-14. SHEET MATERIAL HANDLER (SN 0160037671 to Present)



PY1510

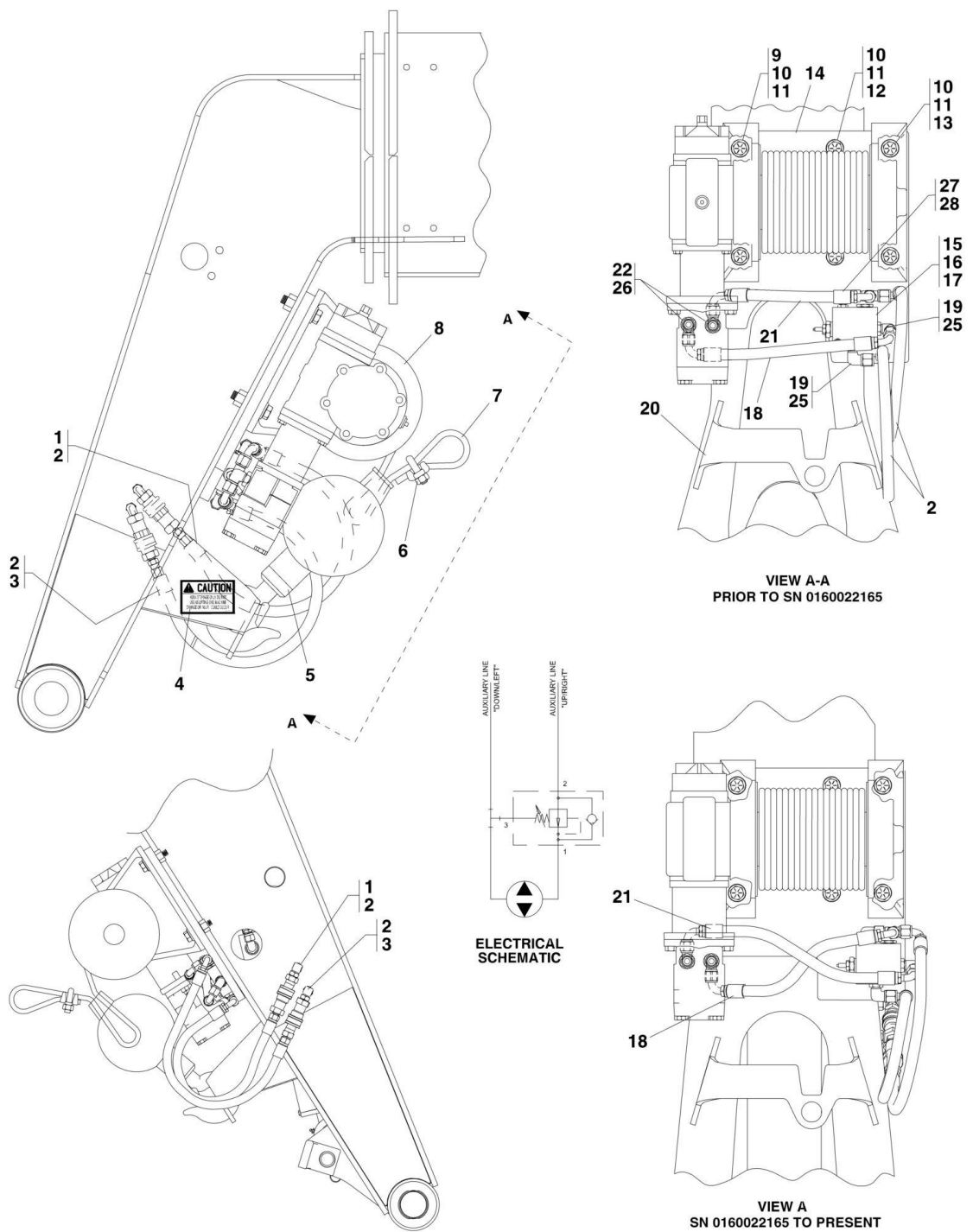
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FIGURE 3-14. SHEET MATERIAL HANDLER (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100227	1	SHEET MATERIAL HANDLER ASSY, (includes all items)	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	LOCKWASHER, 1/2	
5	1001093377	2	HITCH PIN	
6	1001101115	1	FORK SUPPORT ASSY, RH, (includes items 101 thru 107)	A
7	1001101116	1	FORK SUPPORT ASSY, LH, (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	4	LOCKWASHER, 1/2	
105	8307112	1	WASHER, 1/2	
106	1001100228	1	FORK SUPPORT, RH, (not shown)	
106	1001100229	1	FORK SUPPORT, LH, (shown)	
107	N.S.S.	1	SN PLATE	

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FIGURE 3-15. WINCH INSTALLATION



NOTE: 1. ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
2. USE LOCTITE® 545™ (0100075) ON ALL FITTING THREADS.

PY1030

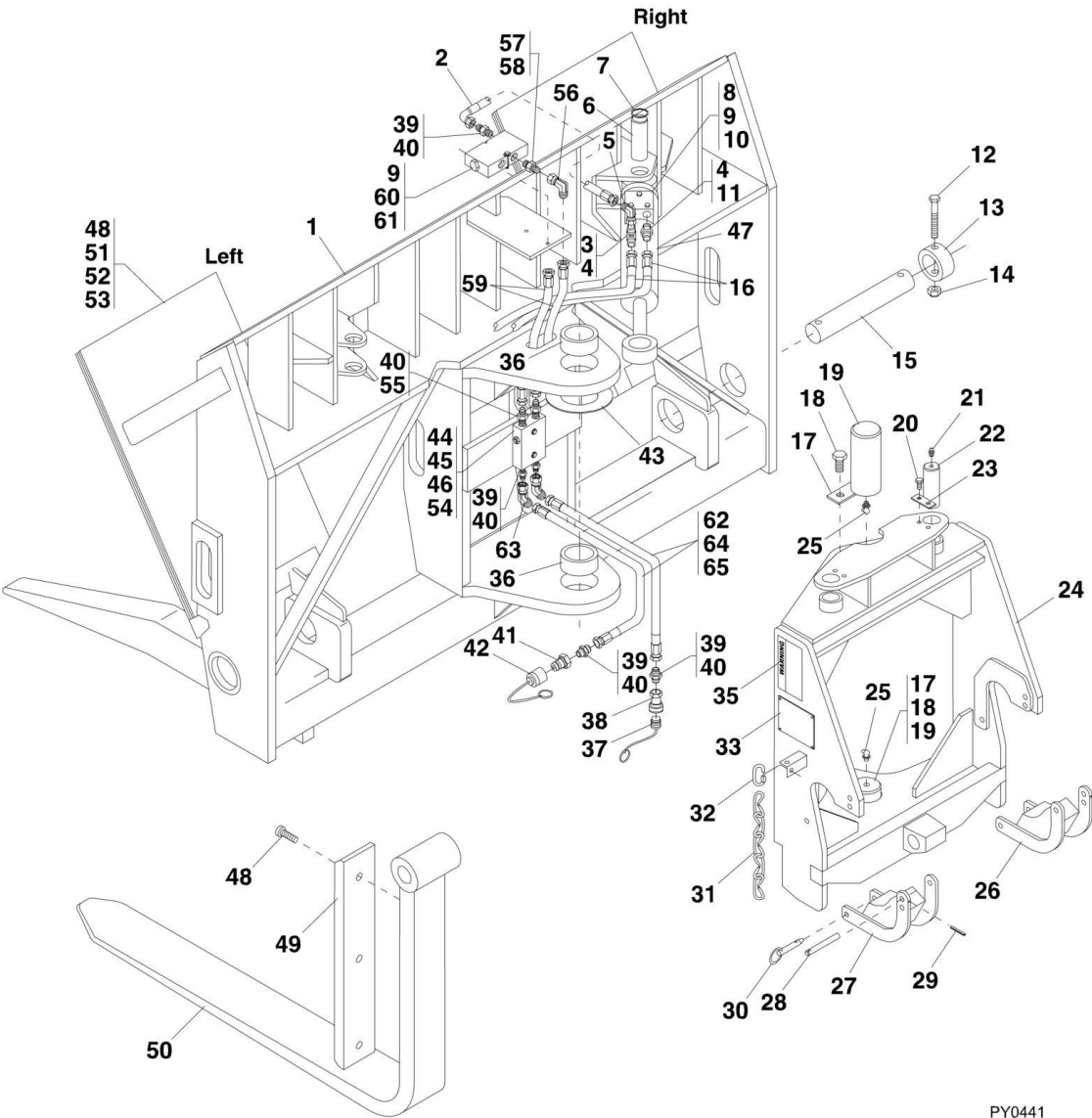
SECTION 3 - ATTACHMENTS

FIGURE 3-15. WINCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515036	1	WINCH INSTALLATION, (includes all items)	E
1	91403413	1	FEMALE QUICK DISCONNECT	
2	84719236	2	HOSE ASSEMBLY	
3	91403414	1	MALE QUICK DISCONNECT	
4	91083535	1	CAUTION DECAL	
5	90201443	1	HOOK AND BALL	
6	90029999	1	WIRE ROPE CLIP, 7/16	
7	91403384	1	CABLE	
8		Ref	WINCH WITH MOTOR, 8 IN, (See OPTIONS SECTION for Breakdown)	
9	83201095	2	HEX HD CAPSCREW, 5/8-11X2-3/4, GR8	
10	90027472	6	HARDENED WASHER	
11	88501010	6	HEX NUT, 5/8-11	
12	83201062	2	HEX HD CAPSCREW, 5/8-11X2-1/4, GR8	
13	83201102	2	HEX HD CAPSCREW, 5/8-11X2-1/2, GR8	
14	91511129	1	WINCH MOUNTING PLATE	
15		Ref	VALVE BLOCK, (See OPTIONS SECTION for Breakdown)	
16	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
17	88551010	2	LOCKWASHER, 5/16	
18	84719235	1	HOSE ASSEMBLY (Prior to SN 0160022165)	
18	1001115014	1	HOSE ASSEMBLY (SN 0160022165 to Present)	
19	2220596	2	ELBOW, 90, (includes item 25)	
20	91411044	1	STOWAGE BRACKET	
21	84719729	1	HOSE ASSEMBLY (Prior to SN 0160022165)	
21	2753902	1	HOSE ASSEMBLY (SN 0160022165 to Present)	
22	2220671	2	ELBOW, 90, (includes item 26)	
25	3780140	2	O-RING	
26	88591206	2	O-RING	
27	2220726	1	ELBOW, 90	
28	2220385	1	SWIVEL NUT RUN TEE, 1/2 IN TUBE	

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FIGURE 3-16. 100, DRYWALL SWING CARRIAGE ASSEMBLY (Prior to SN 0160037671)



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FIGURE 3-16. 100, DRYWALL SWING CARRIAGE ASSEMBLY (Prior to SN 0160037671)

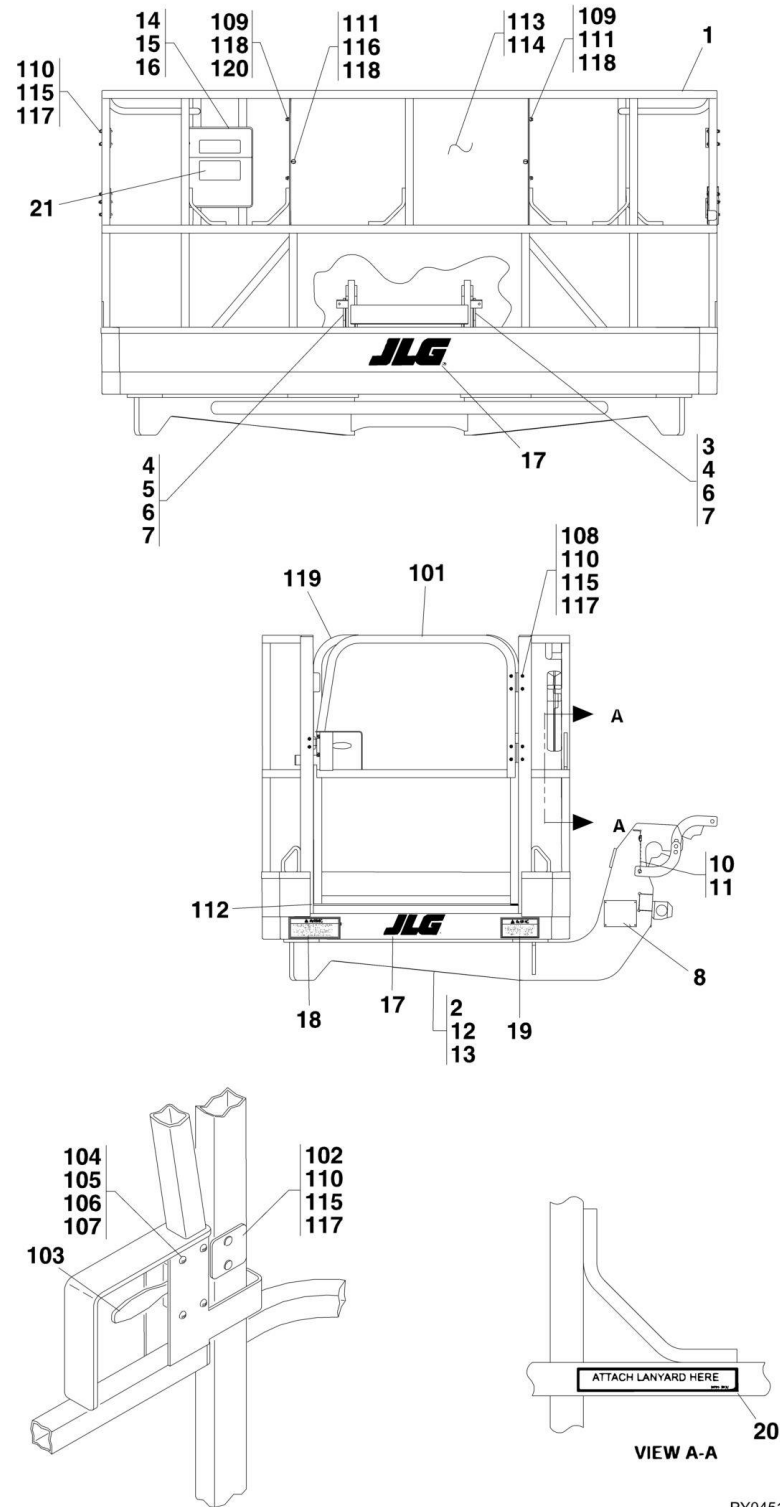
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405078	1	100, DRYWALL SWING CARRIAGE, (includes all items)	O
1	N.S.S.	1	DRYWALL CARRIAGE WELD	
2	84719167	2	HOSE ASSY	
3	2220606	2	RUN TEE, (includes o-ring)	
4	88591204	4	O-RING	
5	8760268	2	ELBOW, 90, (swivel nut)	
6	91041326	2	PIVOT PIN	
7	88581136	4	SNAP RING	
8	91413100	2	MANIFOLD BLOCK	
9	88201008	8	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
10	88551009	6	LOCKWASHER, 1/4	
11	2220371	2	CONNECTOR, (includes o-ring)	
12	88201105	4	HEX HD CAPSCREW, 5/8-11X4, GR5	
13	90200003	4	COLLAR	
14	88521310	4	HEX LOCKNUT, 5/8-11	
15	91401340	2	FORK PIN	
16	84719197	2	HOSE ASSY	
17	91041322	2	LOCKING PLATE	
18	83201026	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR8	
19	91041325	2	PIVOT PIN	
20	83201024	4	HEX HD CAPSCREW, 3/8-16X1, GR8	
21	88671008	2	LUBE FITTING, STRAIGHT, 1/4-28	
22	91041324	2	PIVOT PIN	
23	91411073	2	LOCKING PLATE	
24	N.S.S.	1	PIVOT WELDMENT	
25	88671018	2	LUBE FITTING, 45, 1/8	
26	91406070	1	RH SUPPORT BRACKET	
27	91406069	1	LH SUPPORT BRACKET	
28	91401266	2	PIN	
29	88631449	2	ROLL PIN, 1/8X1-1/2	
30	91043221	2	DETENT PIN	
31	91033038	24 in	CHAIN	
32	91033039	2	CHAIN CONNECTION	
33	N.S.S.	1	SN PLATE	
35	91143282	2	PINCH POINT DECAL	
36	91041327	2	BUSHING	
37	91043125	1	DUST PLUG	
38	91403413	1	FEMALE QUICK DISCONNECT	
39	2220372	6	CONNECTOR	
41	91403414	1	MALE QUICK DISCONNECT	
42	91043126	1	DUST CAP	
43	91041356	6	SPACER	
44	91413099	1	RELIEF VALVE	
45	88201029	2	HEX HD CAPSCREW, 5/16-18X3-1/4, GR5	
46	88501005	2	HEX NUT, 5/16-18	
47		Ref	SWING CYLINDER, (See OPTIONS SECTION for Breakdown)	
47	91404381	2	SEAL KIT	
48	88241053	14	SOCKET FLAT HD CAPSCREW, 3/8-16X1-1/2	
49	90553013	2	BOTTOM DRYWALL GUARD	
50	91403366	2	DRYWALL FORK	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	90553012	2	SIDE DRYWALL GUARD	
52	88551011	8	LOCKWASHER, 3/8	
53	88551006	8	HEX NUT, 3/8-16	
54	88551010	2	LOCKWASHER, 5/16	
55	2220373	2	CONNECTOR	
56	8765204	2	ELBOW, 90, (swivel nut)	
57	91041361	2	MODIFIED FITTING	
58	91411050	2	ORIFICE	
59	84719760	2	HOSE ASSY	
60	91043186	1	DBL PILOT CHECK VALVE	
61	88561002	2	FLAT WASHER, 1/4	
62	84718208	2	HOSE ASSY	
63	2220657	2	ELBOW, 45, (swivel nut)	
64	71492142	24 in	FLEX LOOM	
65	86683122	4	TIE WRAP	

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FIGURE 3-17. PERSONNEL PLATFORM (Prior to SN 0160037671)



PY0451

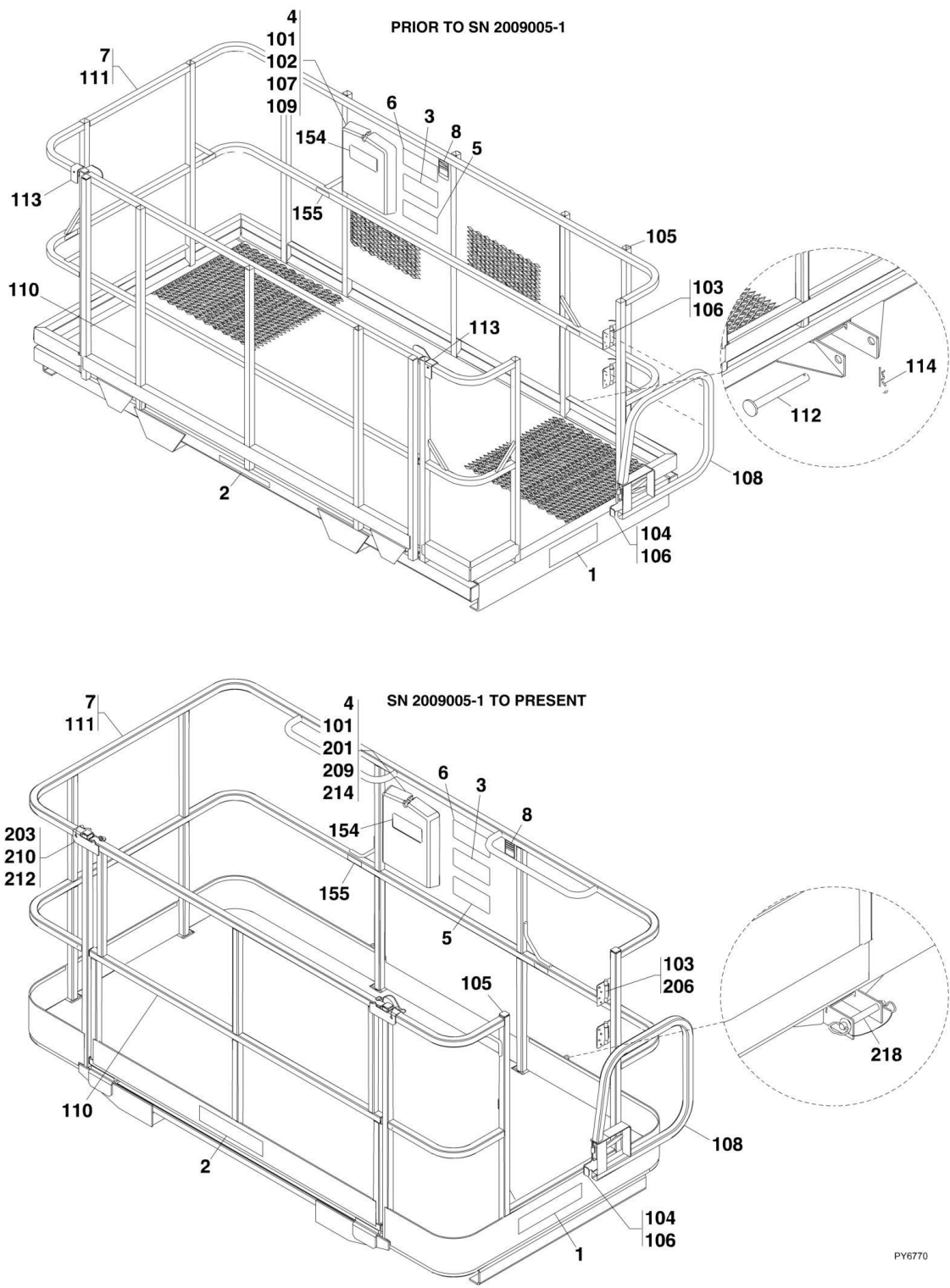
SECTION 3 - ATTACHMENTS

FIGURE 3-17. PERSONNEL PLATFORM (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91415025	1	PERSONNEL PLATFORM ASSY, (includes all items)	H
1	N.S.S.	1	106 IN PERSONNEL PLATFORM, (includes items 101 thru 120)	
1	3510809	1	96 IN PERSONNEL PLATFORM, (includes items 101 thru 120)	
1	3510807	1	8 FT PLATFORM WELDMENT	
2	91406156	1	ADAPTER SUPPORT	
3	91406069	1	LH SUPPORT BRACKET	
4	91401266	2	PIN	
5	91406070	1	RH SUPPORT BRACKET	
6	88631449	2	ROLL PIN, 1/8X1-1/2	
7	91043221	2	DETENT PIN	
8	N.S.S.	1	SN PLATE	
10	91033039	2	CHAIN CONNECTION	
11	91033038	24 in	CHAIN	
12	0682012	8	HEX HD CAPSCREW, 5/8-11X1-1/2	
13	4762000	8	LOCKWASHER, 5/8	
14	91403230	1	MANUAL HOLDER	
15	8310382	4	WHIZ-LOCK NUT, 1/4-20	
16	31200160	1	PERSONNEL WORK PLATFORM MANUAL	
17	1702773	3	JLG DECAL	
18	1706893	1	WARNING DECAL	
19	1706892	1	WARNING DECAL	
20	1704277	6	LANYARD DECAL	
21	1701509	1	MANUAL DECAL	
101	4846265	1	GATE	
102	3539685	1	LATCH PLATE	
103	2940074	1	LATCH	
104	3911008	4	ROUND HD SCREW	
105	3311001	4	HEX NUT, #10-24	
106	4751000	4	WASHER, #10	
107	4761000	4	WASHER	
108	2600216	2	HINGE	
109	0641524	4	HEX HD CAPSCREW, 5/16-18X3	
110	2080063	16	NYLON LOCK NUT, 1/4-20	
111	2080064	14	NYLON LOCK NUT, 5/16-18	
112	3520072	5	CAP PLUG	
113	3573363	1	GUARD PLATE	
114	3641438	1	BENT RAIL	
115	3911428	16	ROUND HD SCREW, 1/4-20X1-3/4	
116	3911528	12	ROUND HD SCREW, 5/16-18X1-3/4	
117	4711400	16	WASHER, 1/4	
118	4711500	32	WASHER, 5/16	
119	4846528	1	BASKET END WELDMENT	
120	3311501	2	HEX NUT, 5/16-18	

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FIGURE 3-18. FORK MOUNTED PLATFORM



PY6770

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FIGURE 3-18. FORK MOUNTED PLATFORM

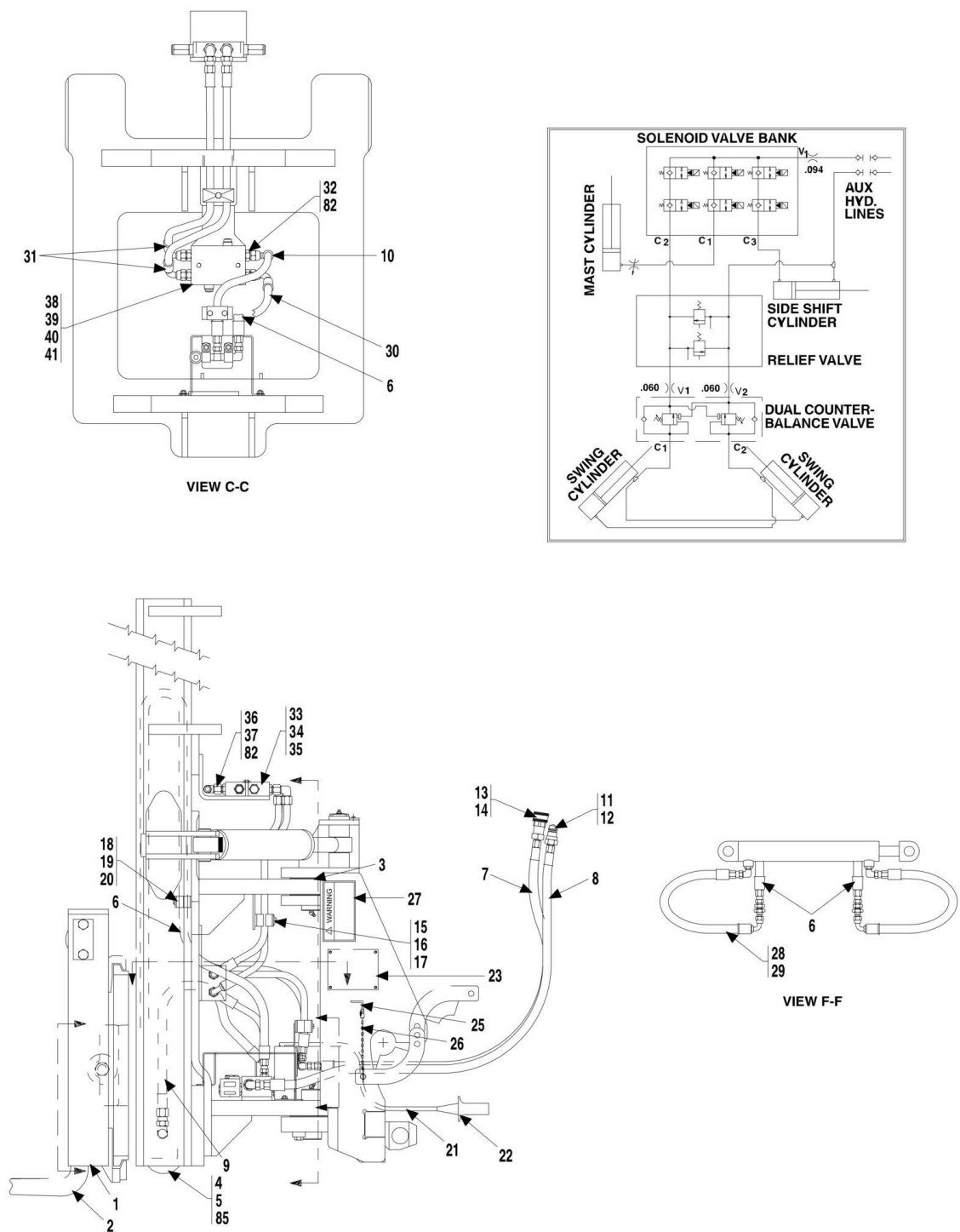
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001092280	NLA	FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ASME), (no longer available, order 1001103637 for replacement or items 1 thru 8 for service)	E
	1001103637	1	FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ASME), (includes items 1 thru 8)	B
	1001096306	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)	B
	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 items 1 thru 8)	B
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	31200336	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, 154 & 155)	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, 203, 206, 210, 212, 214 & 218)	H
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 1/4-20 X 1/2	
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	PIN, SAFETY SNAP, WITH LANYARD	

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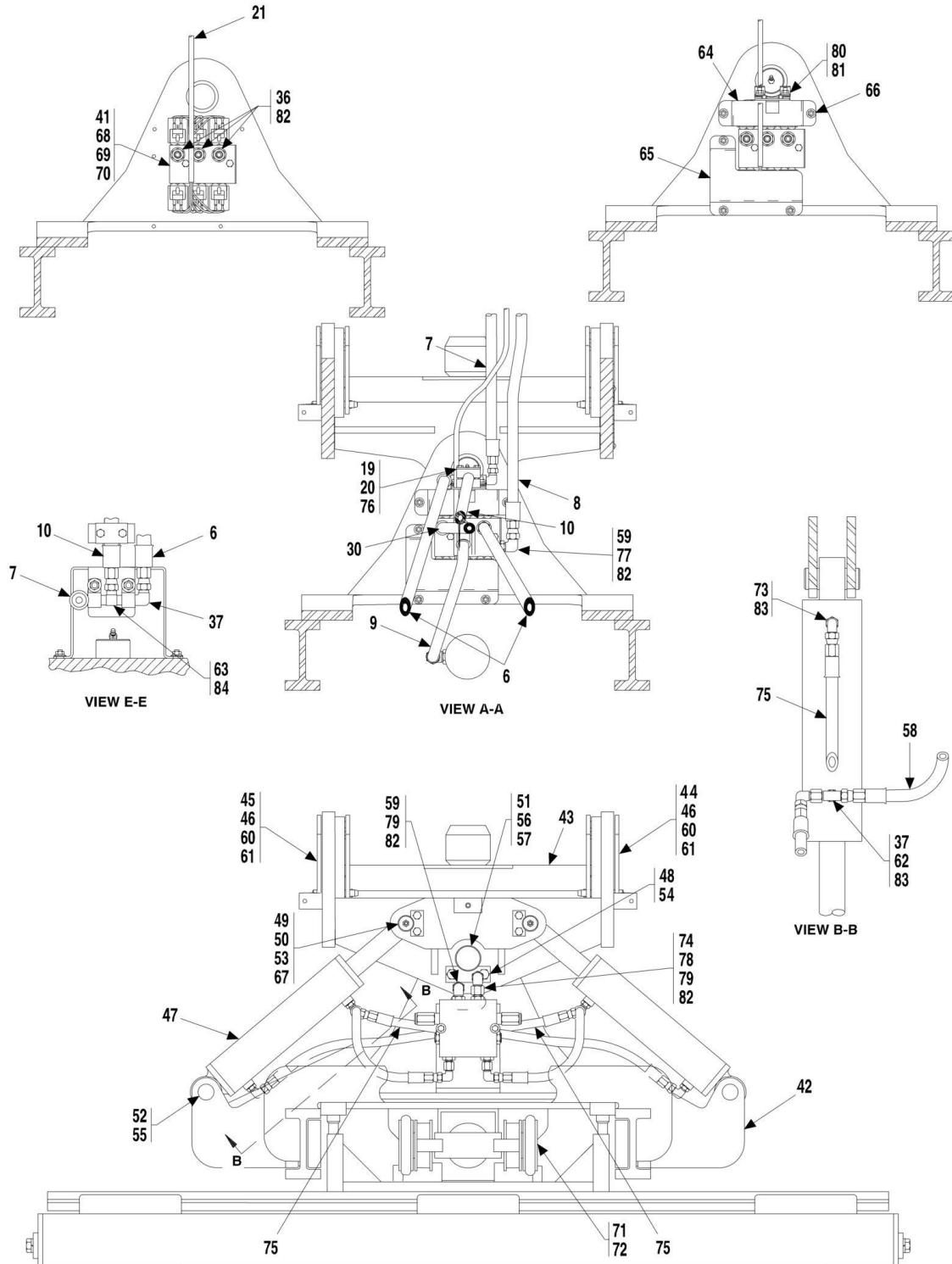
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
114	1001098582	2	LYNCH PIN 3/16 WITH LANYARD	
154	1701509	1	MANUAL DECAL	
155	1704277	3	LANYARD ATTACH DECAL	
201	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8	
203	1060379	2	6IN LANYARD CABLE	
206	2080040	16	FASTENER	
209	3311405	4	HEX NUT, 1/4-20	
210	3421453	2	PIN	
212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

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FIGURE 3-19. 100, SWING CARRIAGE WITH SIDE SHIFT (Prior to SN 0160037671)



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FIGURE 3-19. 100, SWING CARRIAGE WITH SIDE SHIFT (Prior to SN 0160037671)

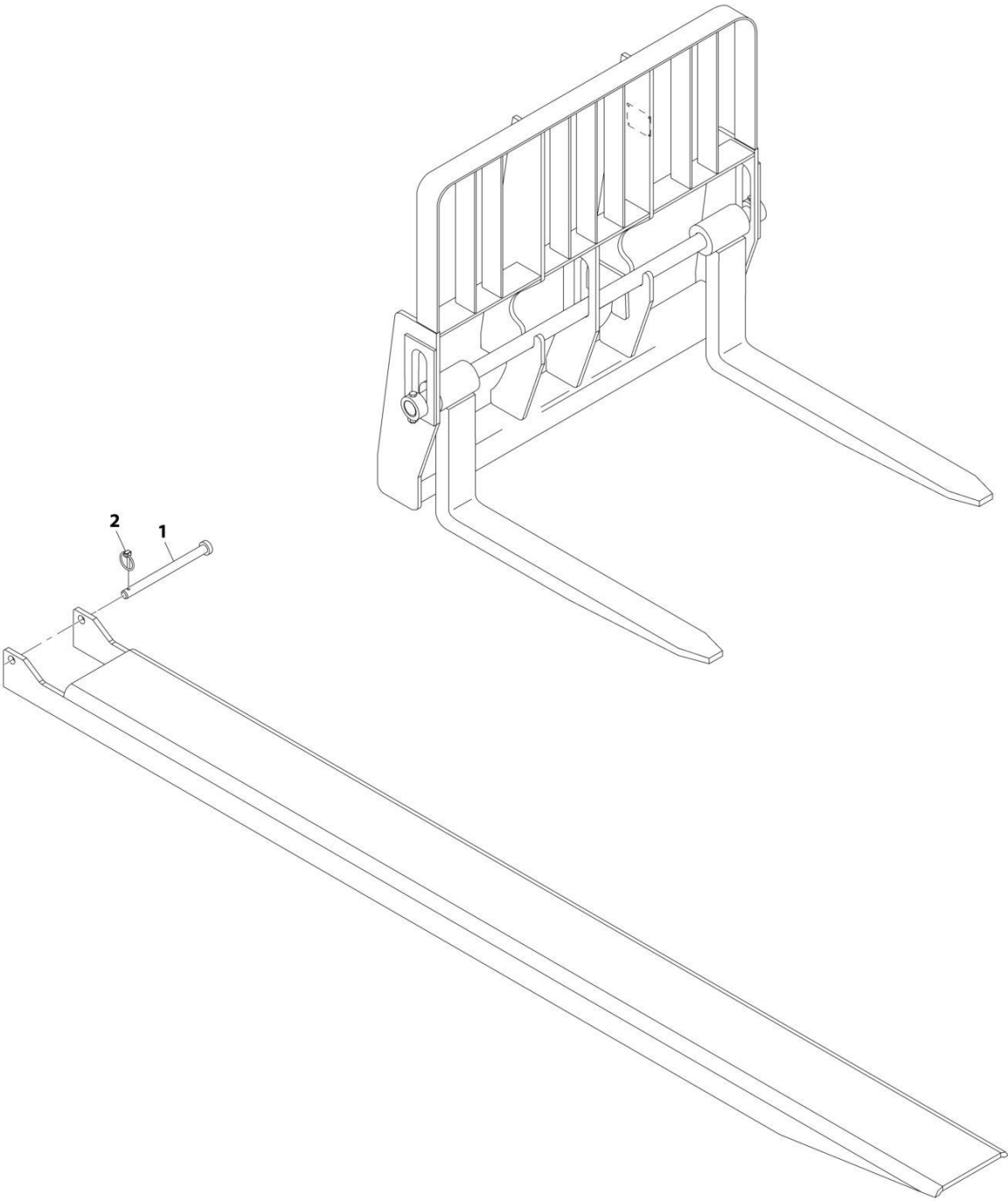
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405070	1	100, SWING CARRIAGE WITH SIDE SHIFT, 48IN FORKS, (includes all items)	N
	91415026	1	100, SWING CARRIAGE WITH SIDE SHIFT, 60IN FORKS, (includes all items)	I
1	N.S.S.	1	72IN SIDE SHIFT CARRIAGE	
2	91403364	2	FORK, 1-3/4X4X48	
2	91403580	2	FORK, 2X6X60	
3	91041356	6	SPACER	
4	91034374	6	LOAD ROLLER	
5	91034375	12	SHIM	
6	84719060	2	HOSE ASSY	
7	84719229	1	HOSE ASSY	
8	84719499	1	HOSE ASSY	
9	84718737	1	HOSE ASSY	
10	84719765	1	HOSE ASSY	
11	91403414	1	MALE QUICK DISCONNECT COUPLING	
12	91043126	1	DUST CAP	
13	91403413	1	FEMALE QUICK DISCONNECT COUPLING	
14	91043125	1	DUST CAP	
15	77133136	1	CLAMP SET	
16	77133137	1	COVER PLATE	
17	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
18	77133810	2	STANDARD CLAMP KIT	
19	77133052	3	COVER PLATE	
20	77133209	6	HEX HD CAPSCREW, 1/4-20X1-3/8	
21	90453023	1	WIRING HARNESS	
22	90207662	1	6 CONTACT PLUG	
23	N.S.S.	1	SN PLATE	
25	91033039	2	CHAIN CONNECTION	
26	91033038	24 in	CHAIN	
27	91143282	2	PINCH POINT DECAL	
28	84719185	2	HOSE ASSY	
29	2230024	2	BULKHEAD UNION, 9/16-18X3/8 TUBE	
30	84719766	1	HOSE ASSY	
31	84719767	2	HOSE ASSY	
32	2220373	4	CONNECTOR, (includes item 82)	
33	90453018	1	DUAL COUNTERBALANCE VALVE	
34	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
35	88561002	2	FLAT WASHER, 1/4	
36	2220372	5	CONNECTOR, (includes item 82)	
37	8760268	3	ELBOW, 90, SWIVEL NUT	
38	91413099	1	RELIEF VALVE	
39	88201029	2	HEX HD CAPSCREW, 5/16-18X3-1/4, GR5	
40	88501005	2	HEX NUT, 5/16-18	
41	88551010	4	LOCKWASHER, 5/16	
42	91406072	1	MAST WELDMENT	
43	91416018	1	SWING FORK PIVOT WELDMENT	
44	91406069	1	LH PIN SUPPORT WELDMENT	
45	91406070	1	RH PIN SUPPORT WELDMENT	
46	91401266	2	PIN	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47		Ref	SWING CYLINDER, (See OPTIONS SECTION for Breakdown)	
48	91041322	2	LOCKING PLATE	
49	91411073	2	LOCKING PLATE	
50	91041324	2	PIVOT PIN	
51	91041325	2	PIVOT PIN	
52	91041326	2	PIVOT PIN	
53	83201024	4	HEX HD CAPSCREW, 3/8-16X1, GR8	
54	83201026	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR8	
55	88581136	4	SNAP RING	
56	88671018	2	LUBE FITTING, 45, 1/8	
57	91041327	2	BUSHING	
58	77133201	2	HOSE ASSY	
59	90203384	2	90, ELBOW, MODIFIED	
60	88631449	2	ROLL PIN, 1/8X1-1/2	
61	91043221	2	DETENT PIN	
62	2220899	2	BRANCH TEE, (includes item 83)	
63	2220490	1	UNION TEE, 3/8 TUBE	
64	91406155	1	FRONT COVER WELDMENT	
65	90451061	1	BACK COVER SOLENOID VALVE	
66	77143013	5	WHIZ-LOCKNUT, 1/4-20	
67	88671008	2	LUBE FITTING, STRAIGHT, 1/4-28	
68	91403338	1	SOLENOID VALVE BANK	
69	88201025	2	HEX HD CAPSCREW, 5/16-18X2-1/4, GR5	
70	88561108	2	FLAT WASHER, 5/16	
71	91034399	2	HOSE SHEAVE	
72	91034400	2	SHOULDER BOLT	
73	2220473	2	ELBOW, 90, (includes item 83)	
74	91041361	1	MODIFIED FITTING	
75	90204097	2	HOSE ASSY	
76	77133053	1	CLAMP SET	
77	91041362	1	ORIFICE FITTING	
78	8765204	1	ELBOW, 90, SWIVEL NUT	
79	91411050	2	ORIFICE	
80	86521144	2	SUPPORT CLAMP	
81	77143006	2	WHIZ-LOCKNUT, 5/16-18	
82	3780140	9	O-RING	
83	3780177	4	O-RING	
84	91403415	1	ELBOW, 90, SWIVEL NUT	
85	91034377	2	SCREW	

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FIGURE 3-20. FORKS



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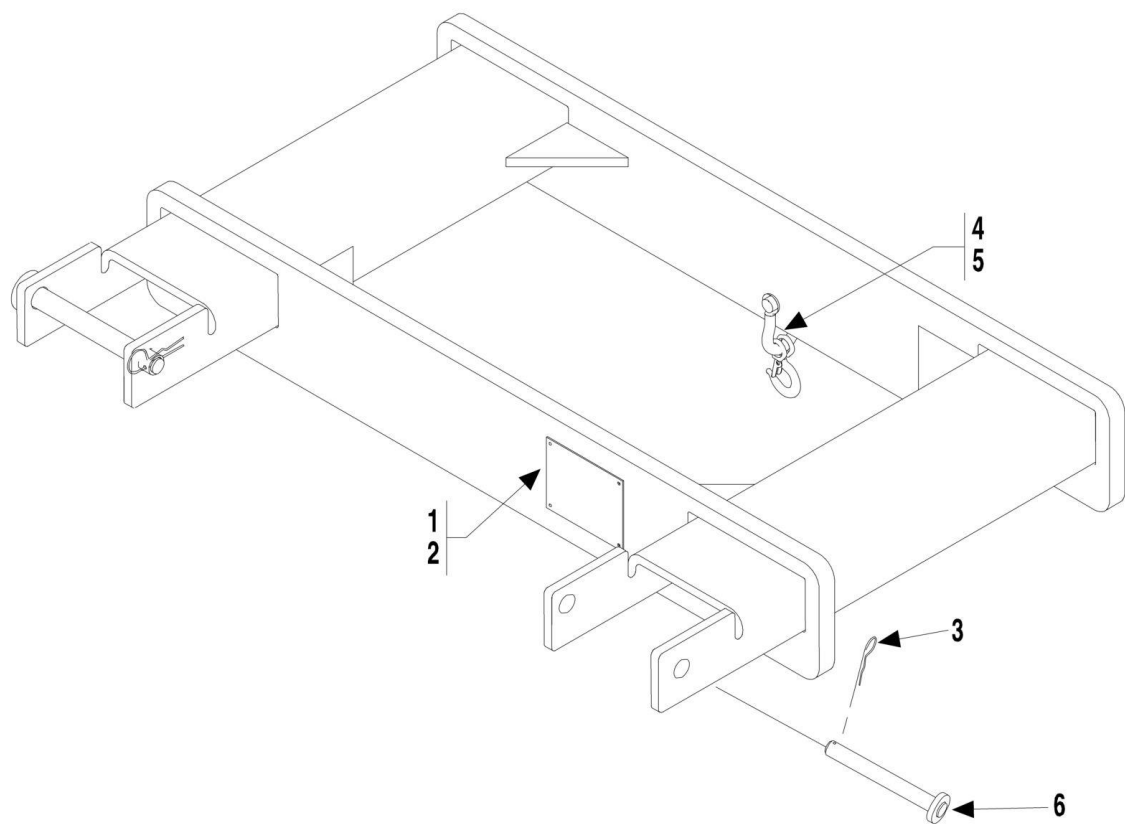
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FIGURE 3-20. FORKS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91403359	6	48IN CUBING FORK, 2X2, 3,880lbs (Prior to SN 0160037671)	B
	2340037	6	48IN CUBING FORK, 2X2, 3,880lbs	A
	91403364	2	48IN PALLET FORK, 1-3/4X4, 6,100lbs, (only used with 100, Swing Carriage with Side Shift, 91405070 or 91415026)	B
	2340045	2	48IN PALLET FORK, 2-23/64X4, 10,950lbs	B
	2340038	2	48IN PALLET FORK, 2-23/64X5, 13,700lbs (Prior to SN 0160037671)	B
	91563141	2	48IN PALLET FORK, 2-1/4X5, 13,700lbs	C
	91403366	2	48IN DRYWALL CARRIAGE FORK, 2X6, 5,000lbs, (only used with Drywall Carriage, 91405077 or 100, Drywall Swing Carriage, 91405078) (Prior to SN 0160037671)	B
	91513206	2	48IN PALLET FORK, 2-1/4X4, 10,950lbs (Prior to SN 0160037671)	D
	91403580	2	60IN PALLET FORK, 2X6, 11,300lbs, (only used with 100, Swing Carriage with Side Shift, 91405070 or 91415026)	B
	91563142	2	60IN PALLET FORK, 2-1/4X6, 16,300lbs (Prior to SN 0160037671)	C
	2340046	2	60IN DUAL TAPER FORK, 1-3/4X7, 10,800lbs	B
	2340039	2	60IN DUAL TAPER FORK, 2-23/64X6, 16,300lbs	B
	1001092391	2	72IN DUAL TAPER FORK, 2X6, 11,300lbs	B
	91563143	2	72IN PALLET FORK, 2-1/4X6, 16,300lbs (Prior to SN 0160037671)	C
	1001137512	2	90IN FORK EXTENSION, (includes items 1 thru 2)	E
1	70024306	1	PIN	
2	70024307	1	CLIP	
N1	Note	Ref	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.	
N2	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

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FIGURE 3-21. FORK MOUNTED LIFTING HOOK PRIOR TO SN 2005134-01



NOTE: PALLET/LUMBER FORKS OF AN APPROPRIATE LOAD RATING MUST BE USED.

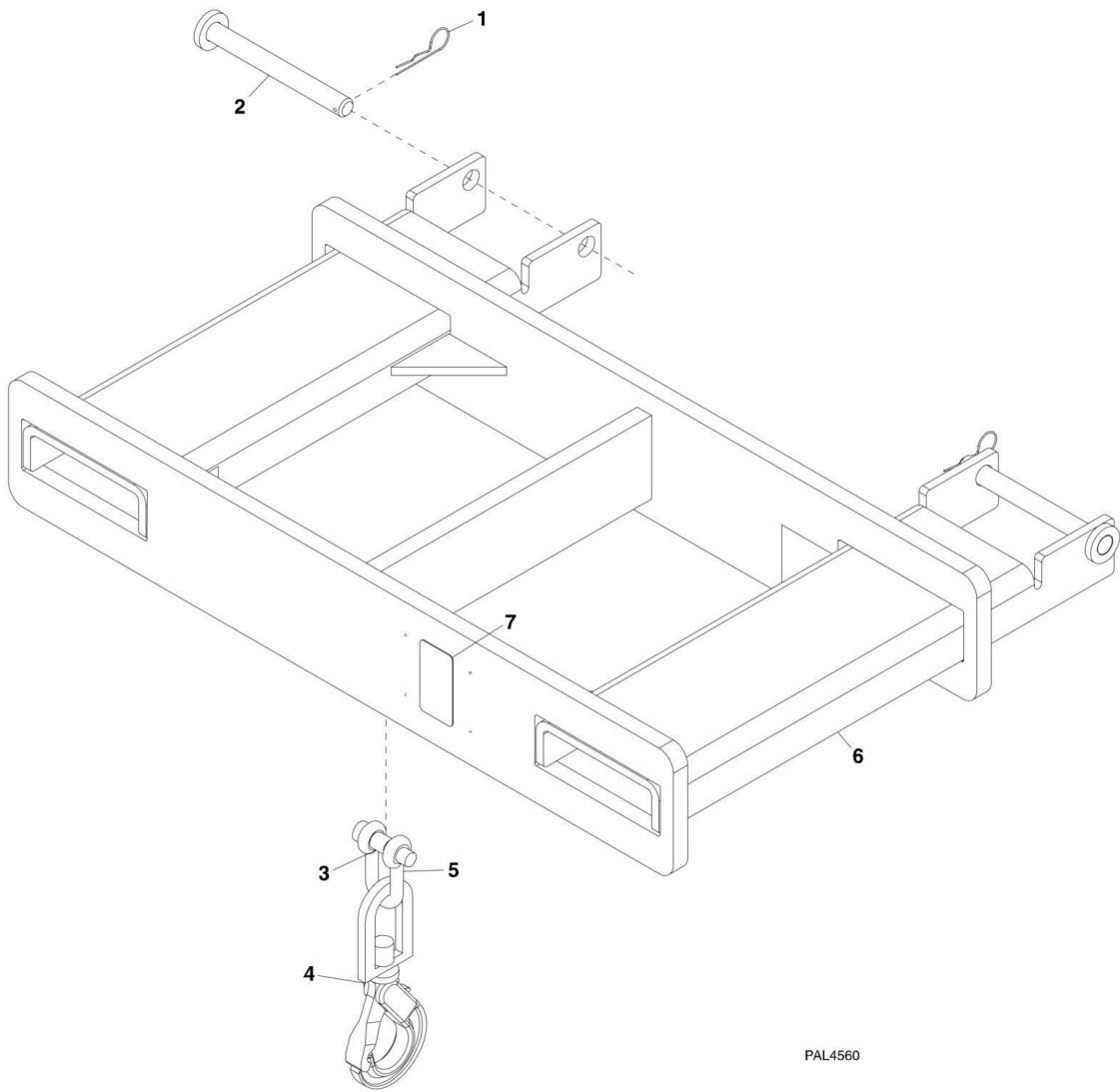
SECTION 3 - ATTACHMENTS

FIGURE 3-21. FORK MOUNTED LIFTING HOOK PRIOR TO SN 2005134-01

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	90553036	NLA	FORK MOUNTED LIFTING HOOK, (no longer available, order 91565094 for replacement or see items 1 thru 6 for service)	E
1	N.S.S.	1	SN ATTACHMENT PLATE	
2	88341022	4	DRIVE SCREW, 3/8	
3	7029520	2	HAIRPIN CLIP	
4	90554079	1	CLEVIS CONNECTOR	
5	90554080	1	HOOK	
6	1001093171	2	PIN	

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FIGURE 3-22. FORK MOUNTED LIFTING HOOK SN 2005134-01 TO PRESENT



NOTE: PALLET/LUMBER FORKS OF AN APPROPRIATE LOAD RATING MUST BE USED.

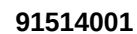
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FIGURE 3-22. FORK MOUNTED LIFTING HOOK SN 2005134-01 TO PRESENT

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	

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G9-43A/G10-43A



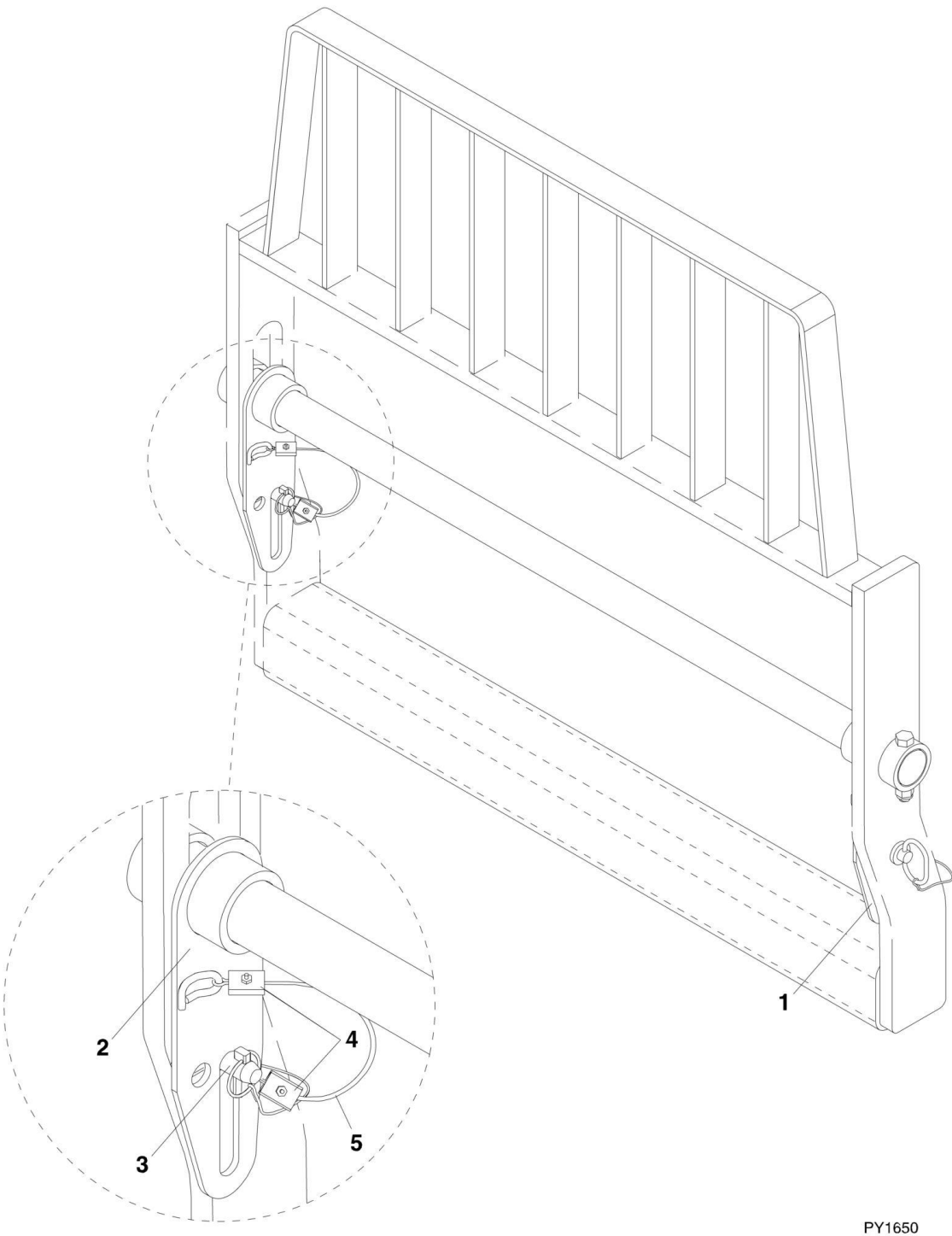
SECTION 3 - ATTACHMENTS

FIGURE 3-23. GRAPPLE BUCKET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0930019	1	GRAPPLE BUCKET, (includes all items) (Prior to SN 0160037671)	B
	0930020	1	GRAPPLE BUCKET, (includes all items) (SN 0160037671 to Present)	G
1	N.S.S.	1	BUCKET	
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	CYLINDER ASSY, (See HYDRAULIC COMPONENT 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	N.S.S.	8	HEX HD CAPSCREW, 0.38X2.5 (Prior to SN 0160037671)	
14	90554042	8	LOCKWASHER, 0.38 (Prior to SN 0160037671)	
14	70021399	4	HEX HD CAPSCREW, 3/8X2.25 (SN 0160037671 to Present)	
14	70021367	4	LOCK NUT, 3/8 (SN 0160037671 to Present)	
15	N.S.S.	4	ELBOW, 90, (Prior to SN 0160037671)	
15	90554065	4	ELBOW, 90, (SN 0160037671 to Present)	
16	70021395	2	HOSE ASSY, 0.38X64	
16	70021980	2	HOSE ASSY, 3/8X73	
17	70020562	2	FITTING, TEE	
18	70021396	2	HOSE ASSY, 0.38X44 (Prior to SN 0160037671)	
18	70021981	2	HOSE ASSY, 3/8X46 (SN 0160037671 to Present)	
19	70021394	2	HOSE ASSY, 0.38X76 (Prior to SN 0160037671)	
19	70021395	2	HOSE ASSY, 3/8X64 (SN 0160037671 to Present)	
20	90554063	2	STRAIGHT CONNECTOR (Prior to SN 0160037671)	
20	70022527	2	ELBOW, 90, (SN 0160037671 to Present)	
21	90554061	1	MALE QUICK COUPLER (Prior to SN 0160037671)	
21	7029692	1	MALE QUICK COUPLER (SN 0160037671 to Present)	
22	90554062	1	DUST COVER	
23	90554077	1	FEMALE QUICK COUPLER (Prior to SN 0160037671)	
23	70021342	1	FEMALE QUICK COUPLER (SN 0160037671 to Present)	
24	90554076	1	DUST COVER	
25	90554016	1	MADE IN USA DECAL	
26	N.S.S.	1	SN PLATE	
27	90554017	2	DANGER PINCH POINT DECAL	
28	90554018	1	WARNING HIGH PRESSURE DECAL	
29	70021387	3	HOSE CLAMP (Prior to SN 0160037671)	
29	70021387	4	HOSE CLAMP (SN 0160037671 to Present)	
K1	0930021	1	GRAPPLE BUCKET KIT, (includes 0930019 bucket and the appropriate load chart, See DECALS SECTION for Breakdown) (Prior to SN 0160037689)	

SECTION 3 - ATTACHMENTS

FIGURE 3-24. FORK PIN LOCK INSTALLATION (SN 0160037671 to Present)



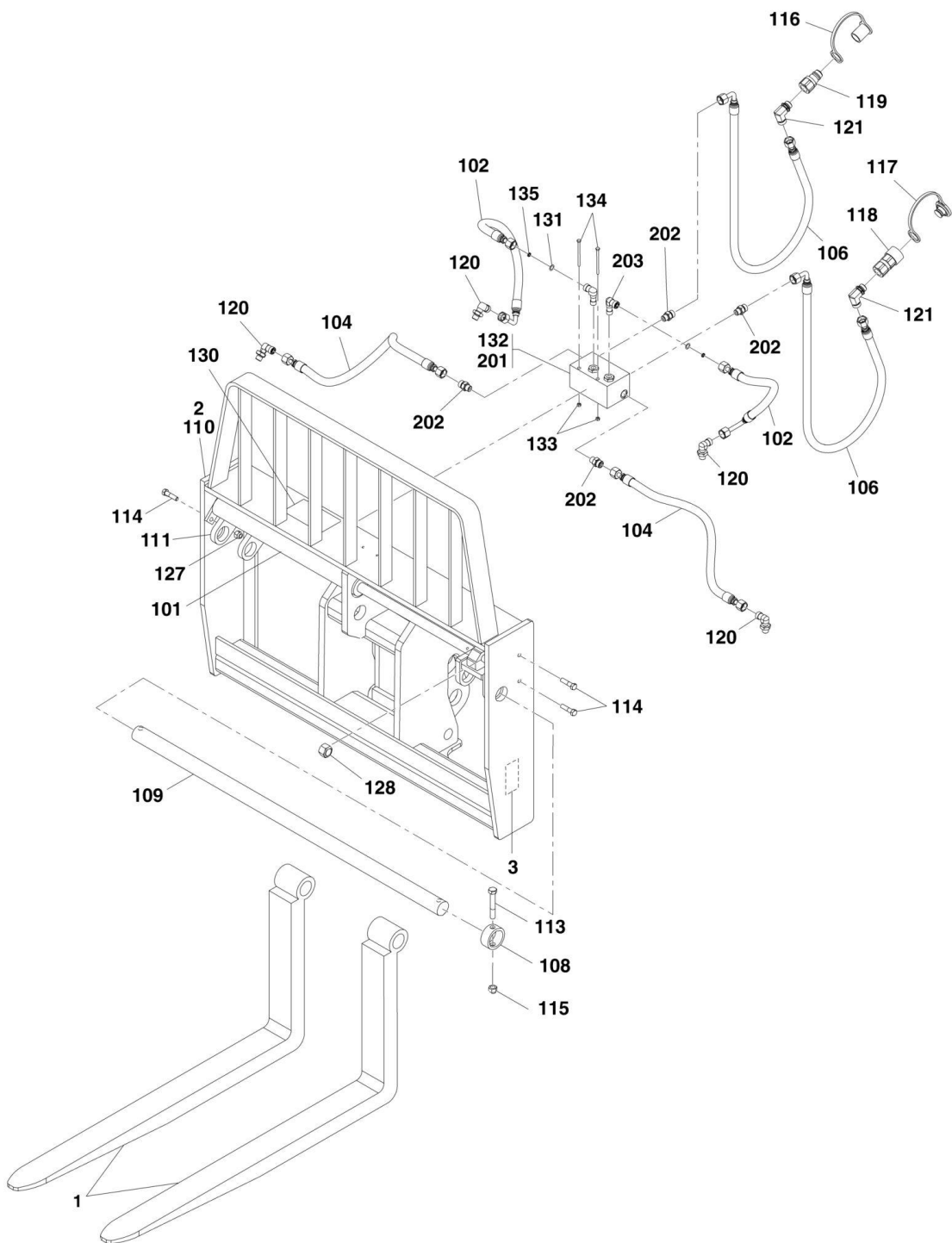
SECTION 3 - ATTACHMENTS

FIGURE 3-24. FORK PIN LOCK INSTALLATION (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001093465	1	FORK PIN LOCK INSTALLATION, (includes all items)	B
1	0240156	1	FORK PIN LOCK, LH	
2	1001093273	1	FORK PIN LOCK, RH	
3	1001093377	2	HITCH PIN	
4	1001094830	4	CLAMP	
5	1001094330	2	LANYARD	

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FIGURE 3-25. DUAL FORK POSITIONING CARRIAGE ASSEMBLY (SN 0160037671 to Present)



ART_7301295-F

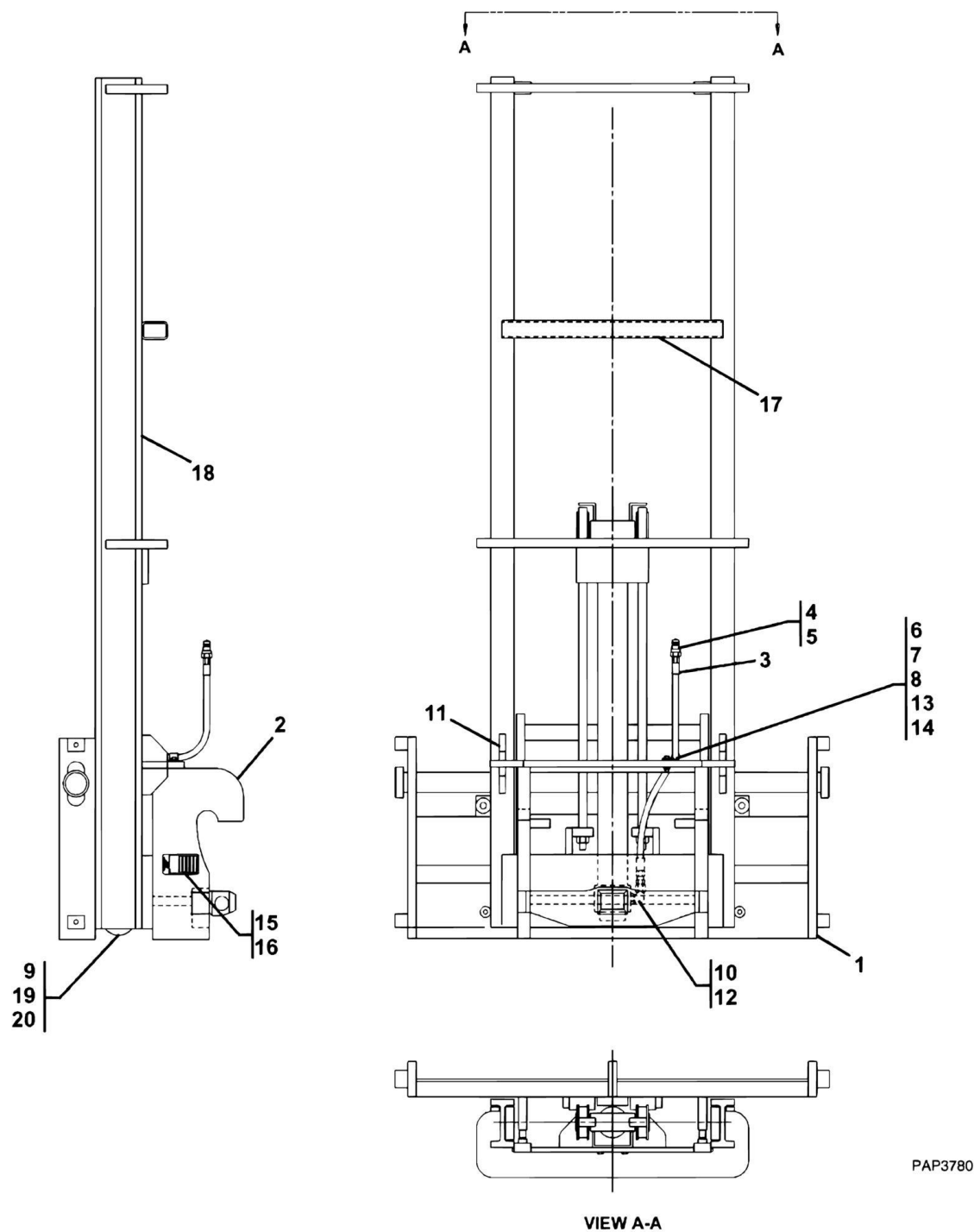
SECTION 3 - ATTACHMENTS

FIGURE 3-25. DUAL FORK POSITIONING CARRIAGE ASSEMBLY (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301295	1	50IN DUAL FORK CARRIAGE ASSEMBLY, (includes items 1 thru 3)	F
1	N.S.S.	2	PALLET FORK, (60X100X1220MM)	I
2	N.S.S.	1	50IN CARRIAGE, (includes items 101 thru 135)	
3	N.S.S.	1	SN PLATE	
101	2717283	2	FORK POSITIONING CYLINDER	
102	2717160	2	HOSE ASSY	
104	2717161	2	HOSE ASSY	
106	2717162	2	HOSE ASSY	
108	90200003	2	FORK PIN COLLAR	
109	90451058	1	FORK SHAFT	
110	N.S.S.	1	50 IN CARRIAGE WELDMENT	
111	7301579	2	FORK ADAPTER WELDMENT	
113	8303634	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
114	8303658	4	HEX HD CAPSCREW, 1/2-13X2, GR5	
115	8305643	2	HEX LOCKNUT, 5/8-11	
116	8420053	1	DUST CAP	
117	8420055	1	DUST PLUG	
118	91403413	1	CONNECTOR	
119	91403414	1	CONNECTOR	
120	2130606	4	ELBOW, 90, (includes o-ring)	
121	2130608	2	ELBOW, 90, (includes o-ring)	
127	8310302	4	HEX LOCKNUT, 1/2-13	
128	10705034	2	HEX LOCKNUT, 1-14	
130	4110473	1	HOSE ROUTING DECAL	B
131	7139918	2	ORIFICE DISK	
132	4641502	1	VALVE ASSY, (includes items 201 thru 203)	
133	8305624	2	HEX LOCKNUT, 1/4-20	
134	8310435	2	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
135	8630003	2	O-RING	
201	4641501	1	FLOW DIVIDER VALVE	
202	2110606	4	CONNECTOR	
203	2130606	2	ELBOW, 90, (includes o-ring)	

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FIGURE 3-26. 6 FT MAST WITH 72 IN CARRIAGE (Prior to SN 0160037671)



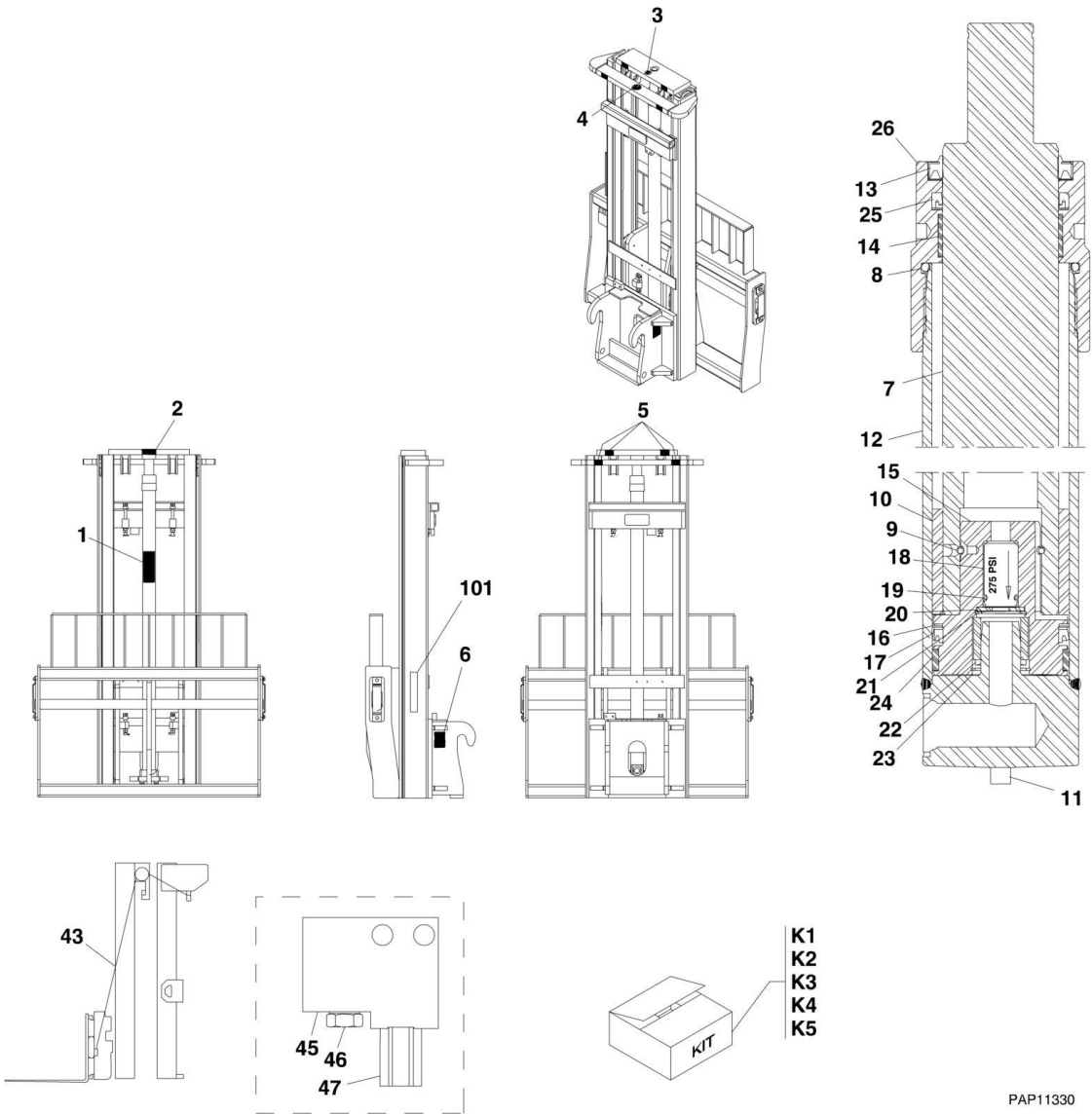
SECTION 3 - ATTACHMENTS

FIGURE 3-26. 6 FT MAST WITH 72 IN CARRIAGE (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405060	1	6FT MAST WITH 72IN CARRIAGE, (includes all items)	L
	91405061	1	6FT MAST WITH 72IN CARRIAGE, (includes all items)	H
1	91403408	1	45 1/2IN CARRIAGE	
1	91403409	1	69 1/2IN CARRIAGE	
2	N.S.S.	1	ADAPTOR	
3	84719229	1	HOSE ASSY	
4	91403414	1	ADAPTOR	
5	91043126	1	DUST CAP	
6	24431386	1	CLAMP	
7	88201037	1	HEX HD SCREW, 3/8-16	
8	88561004	1	FLAT WASHER	
9	91034377	2	SCREW	
10	1001094695	1	ADAPTOR	
11	N.S.S.	4	GUSSET	
13	88501006	1	HEX NUT, 3/8-16	
14	88551011	1	LOCK WASHER, 3/8	
15	N.S.S.	1	SN PLATE	
17	N.S.S.	1	STOP TUBE	
18	91403339	1	6FT MAST	
19	91034374	6	LOAD ROLLER	
20	91034375	12	SHIM	

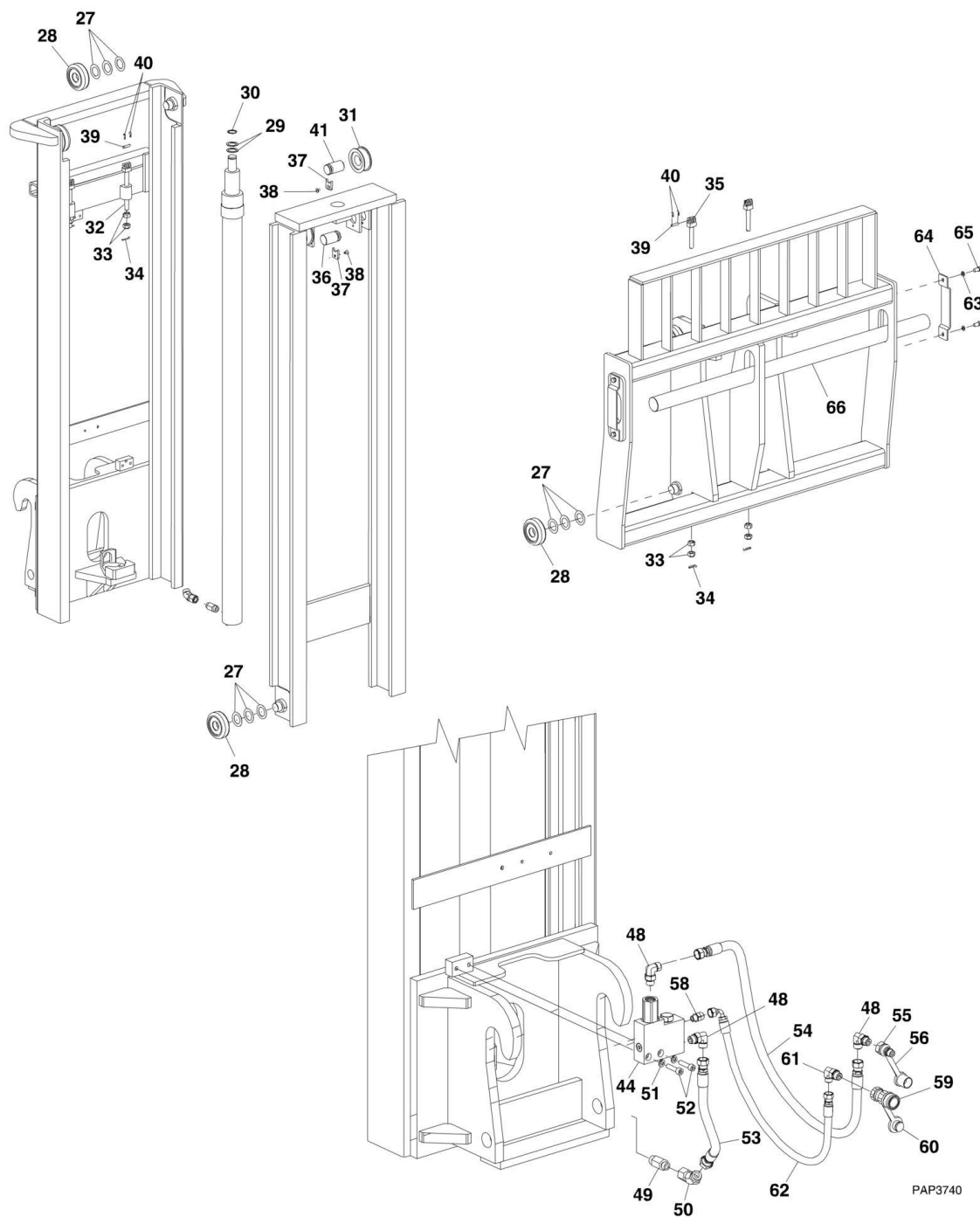
SECTION 3 - ATTACHMENTS

FIGURE 3-27. 8 FT STANDARD MAST (SN 0160037671 to Present)



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FIGURE 3-27. 8 FT STANDARD MAST (SN 0160037671 to Present)

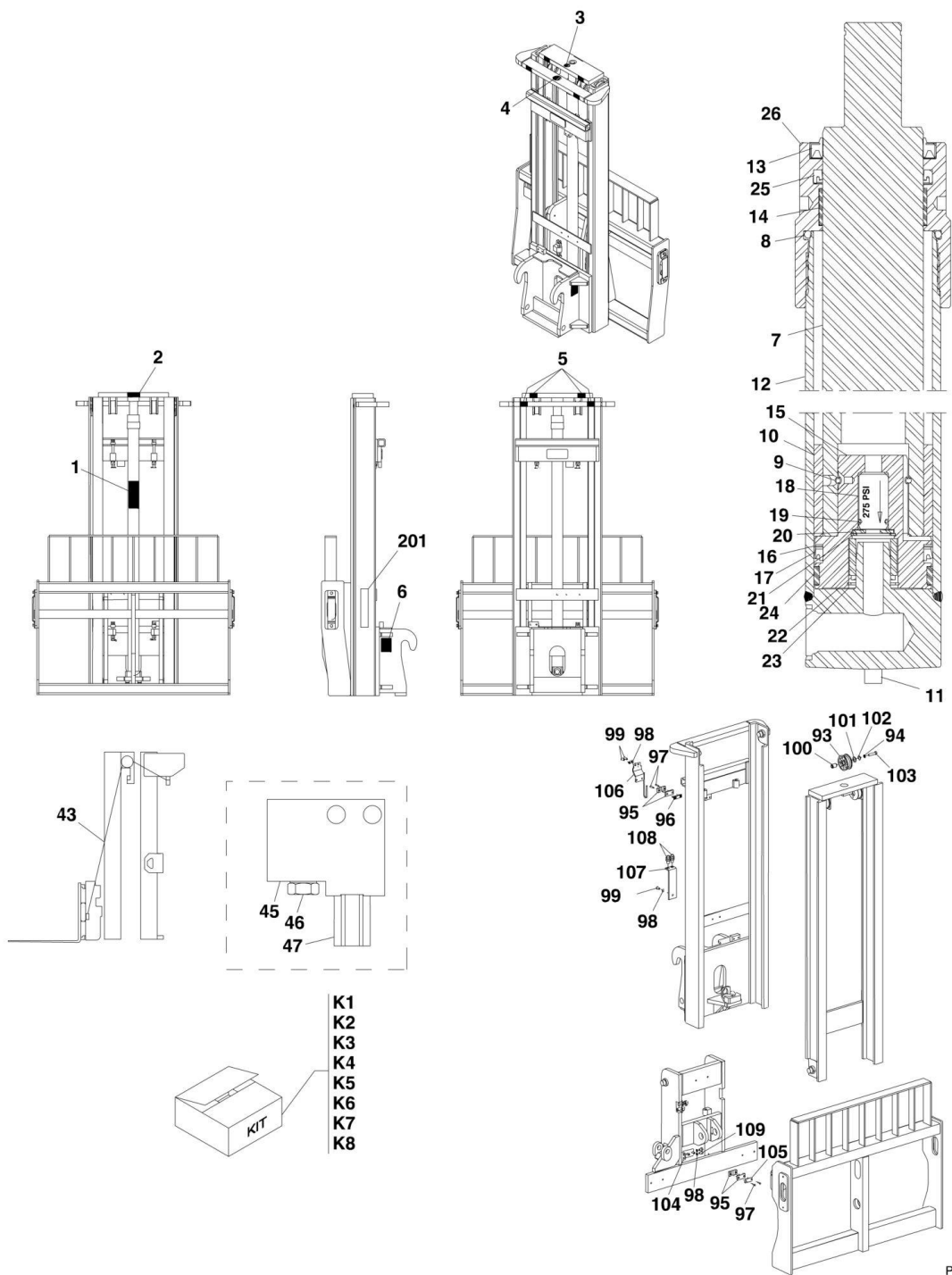
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108668	1	8 FT STANDARD MAST, (includes all items)	B
1	Kit	1	WARNING DECAL	
2	Kit	1	WARNING DECAL	
3	Kit	1	NO STEP DECAL	
4	Kit	1	NO STEP DECAL	
5	Kit	4	HANDS OFF DECAL	
6	1001111190	2	HOSE ROUTING	
6	70023008	1	MAIN LIFT CYLINDER	
7	N.S.S.	1	ROD/PLUNGER	
8	Kit	1	O-RING	
9	Kit	1	PULL WIRE	
10	N.S.S.	1	SPACER	
11	N.S.S.	2	ROLL PIN	
12	N.S.S.	1	BARREL	
13	Kit	1	WIPER	
14	Kit	1	BUSHING	
15	N.S.S.	1	PISTON	
16	Kit	1	NYLON RING	
17	Kit	1	PISTON SEAL	
18	Kit	1	CHECK VALVE	
19	Kit	1	O-RING	
20	Kit	1	WASHER	
21	Kit	1	CIRCLIP	
22	N.S.S.	1	SLEEVE	
23	Kit	1	RETAINING RING	
24	Kit	1	WEAR RING	
25	Kit	1	ROD SEAL	
26	70023004	1	RETAINER/GLAND	
27	70023014	24	SHIM	
28	70022987	8	BALL BEARING	
29	Kit	2	WASHER SHIM	
30	70023016	1	SNAP RING	
31	70022969	2	SHEAVE ASSY	
32	70022960	2	CHAIN ANCHOR	
33	70022957	8	NUT, 0.625-18UNF	
34	70022993	4	COTTER PIN	
35	70022995	2	CHAIN ANCHOR	
36	70022984	1	SHEAVE SHAFT	
37	70022970	2	RETAINER BAR	
38	70023003	2	FLAT HD CAPSCREW	
39	70022994	4	CHAIN ANCHOR PIN	
40	70022992	8	COTTER PIN	
41	70022985	1	SHEAVE SHAFT	
43	70023009	2	LIFT CHAIN	
44	70022932	1	PO CHECK VALVE ASSY, (includes items 45, 46 & 47)	
45	N.S.S.	1	MANIFOLD	
46	70022931	1	PO CHECK VALVE CARTRIDGE	
47	70023010	1	P.O. CHECK	
48	70022934	3	FITTING, 90	
49	70022936	1	FLOW LIMITER	

SECTION 3 - ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	70022937	1	FITTING, 45	
51	70022949	2	LOCKWASHER, M10	
52	70022950	2	HEX SOCKET CAPSCREW	
53	70022942	1	HOSE ASSY	
54	70022952	1	HOSE ASSY	
55	91403414	1	MALE QUICK DISCONNECT COUPLING	
56	91043126	1	DUST CAP	
58	70022939	1	STRAIGHT FITTING, #6	
59	91403413	1	FEMALE QUICK DISCONNECT COUPLING	
60	91043125	1	DUST PLUG	
61	70022935	1	ELBOW, STRAIGHT THREAD	
62	70022946	1	HOSE ASSY	
63	70022949	4	LOCKWASHER, M10	
64	70022980	2	FORK PIN KEEPER	
65	70022998	4	CAPSCREW, M10X20 LG	
66	70022990	1	FORK PIN	
101	N.S.S.	1	SN PLATE	
K1	70023925	1	DECAL KIT, (includes items 1 thru 6)	
K2	70023005	1	SEAL KIT, MAIN LIFT CYLINDER, (includes items 8, 9, 13, 14, 16, 17, 19, 21, 23, 24 & 25)	
K3	70023006	1	CHECK VALVE KIT, (includes items 18, 19, 20, 21 & 23)	
K4	70023007	1	SHIM KIT	
K5	70023015	1	MAST COMMON PARTS KIT, (includes items 27 thru 41)	

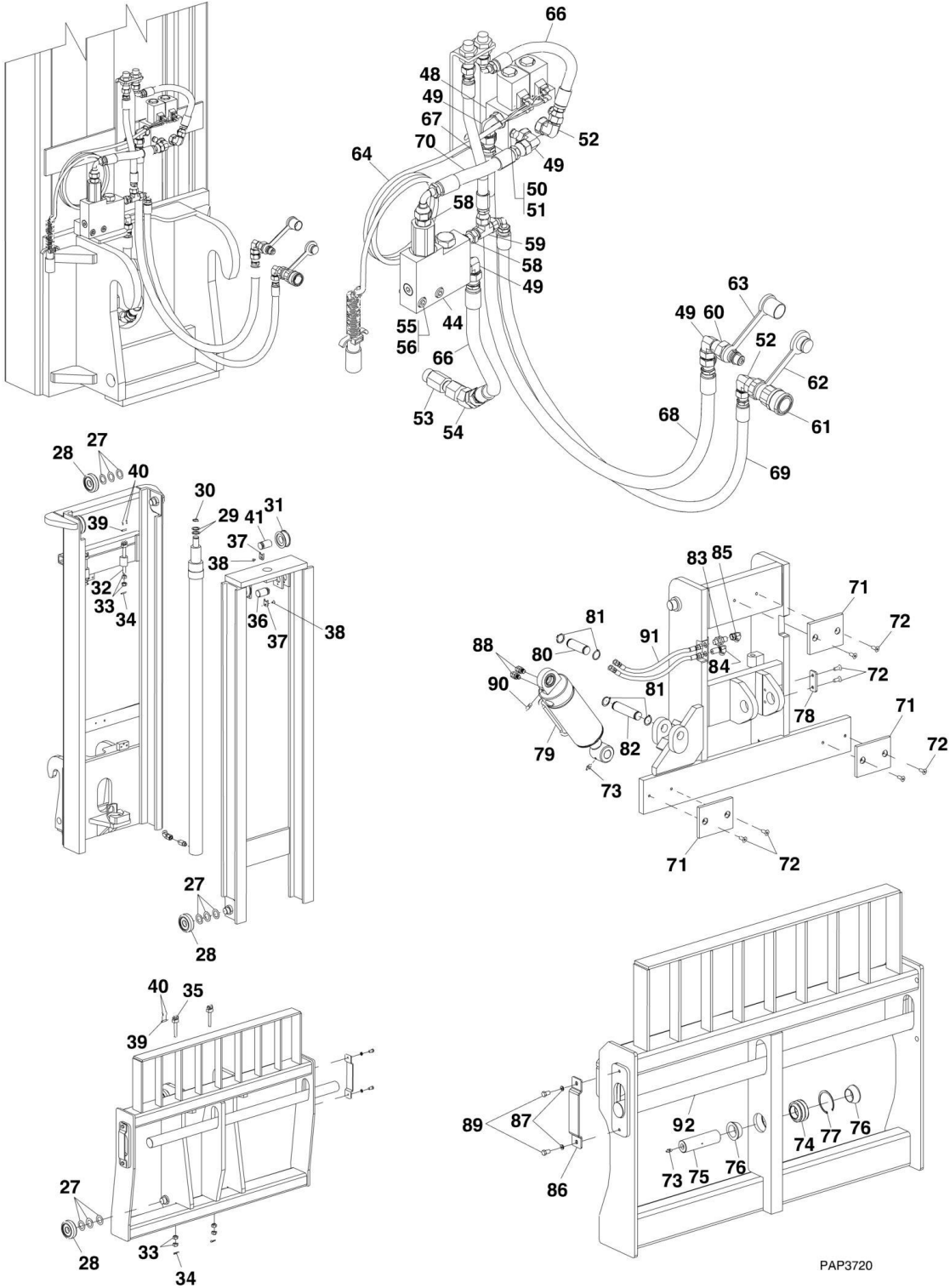
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FIGURE 3-28. 8 FT SIDE TILT ELECTRIC MAST (SN 0160037671 to Present)



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SECTION 3 - ATTACHMENTS



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SECTION 3 - ATTACHMENTS

FIGURE 3-28. 8 FT SIDE TILT ELECTRIC MAST (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108669	1	8 FT SIDE TILT ELECTRIC MAST, (includes all items)	B
1	Kit	1	WARNING DECAL	
2	Kit	1	WARNING DECAL	
3	Kit	1	NO STEP DECAL	
4	Kit	1	NO STEP DECAL	
5	Kit	4	HANDS OFF DECAL	
6	1001111190	2	WARNING DECAL	
6	70023008	1	MAIN LIFT CYLINDER	
7	N.S.S.	1	ROD/PLUNGER	
8	Kit	1	O-RING	
9	Kit	1	PULL WIRE	
10	N.S.S.	1	SPACER	
11	N.S.S.	2	ROLL PIN	
12	N.S.S.	1	BARREL	
13	Kit	1	WIPER	
14	Kit	1	BUSHING	
15	N.S.S.	1	PISTON	
16	Kit	1	NYLON RING	
17	Kit	1	PISTON SEAL	
18	Kit	1	CHECK VALVE	
19	Kit	1	O-RING	
20	Kit	1	WASHER	
21	Kit	1	CIRCLIP	
22	N.S.S.	1	SLEEVE	
23	Kit	1	RETAINING RING	
24	Kit	1	WEAR RING	
25	Kit	1	ROD SEAL	
26	70023004	1	RETAINER/GLAND	
27	70023014	24	SHIM	
28	70022987	8	BALL BEARING	
29	Kit	2	WASHER SHIM	
30	70023016	1	SNAP RING	
31	70022969	2	SHEAVE ASSY	
32	70022960	2	CHAIN ANCHOR	
33	70022957	8	NUT, 0.625-18UNF	
34	70022993	4	COTTER PIN	
35	70022995	2	CHAIN ANCHOR	
36	70022984	1	SHEAVE SHAFT	
37	70022970	2	RETAINER BAR	
38	70023003	2	FLAT HD CAPSCREW	
39	70022994	4	PIN, CHAIN ANCHOR	
40	70022992	8	COTTER PIN	
41	70022985	1	SHEAVE SHAFT	
43	70023009	2	LIFT CHAIN	
44	70022932	1	PO CHECK VALVE ASSY, (includes items 45, 46 & 47)	
45	N.S.S.	1	MANIFOLD	
46	70022931	1	PO CHECK VALVE CARTRIDGE	
47	70023010	1	P.O. CHECK	
48	70022933	1	SOLENOID VALVE BANK	
49	70022934	4	FITTING, 90	

SECTION 3 - ATTACHMENTS

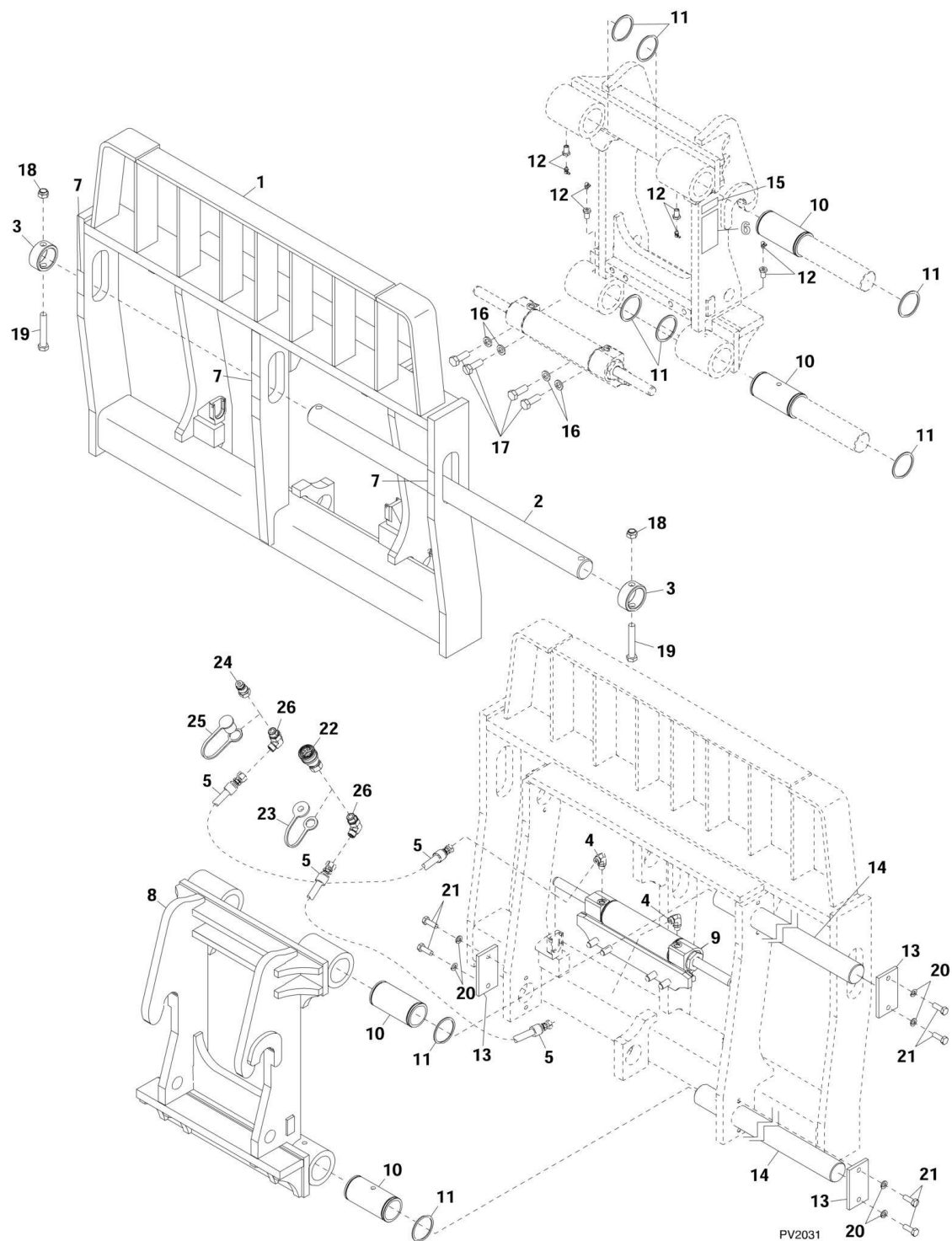
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	70022948	2	LOCKWASHER, M8	
51	70022951	2	CAPSCREW, M8X60	
52	70022935	2	STRAIGHT THREAD ELBOW	
53	70022936	1	FLOW LIMITER	
54	70022937	1	FITTING, 45	
55	70022949	2	LOCKWASHER, M10	
56	70022950	2	HEX SOCKET CAPSCREW	
57	70022938	1	STRAIGHT FITTING	
58	70022939	1	STRAIGHT FITTING, #6	
59	70022940	1	TEE FITTING	
60	91403414	1	MALE QUICK DISCONNECT COUPLING	
61	91403413	1	FEMALE QUICK DISCONNECT COUPLING	
62	91043125	1	DUST PLUG	
63	91043126	1	DUST CAP	
64	70022941	1	HARNESS	
65	70022942	1	HOSE ASSY	
66	70022943	1	HOSE ASSY	
67	70022944	1	HOSE ASSY	
68	70022945	1	HOSE ASSY	
69	70022946	1	HOSE ASSY	
70	70022947	1	HOSE ASSY	
71	70022972	3	WEAR PAD	
72	70022971	8	FLAT HD CAPSCREW	
73	70023001	2	GREASE FITTING	
74	70022975	1	BEARING	
75	70022973	1	PIVOT SHAFT	
76	70022974	2	BEVELED SPACER	
77	70022988	1	RETAINING RING	
78	70022976	1	RETAINER PLATE	
79	2716143	1	TILT CYLINDER	
80	70022977	1	PIN, 128.1mm	
81	70023016	4	SNAP RING, 1-1/4	
82	70022978	1	PIN, 128.1mm	
83	70023000	1	BULKHEAD UNION, (with locknut)	
84	70022999	1	BULKHEAD UNION ELBOW	
85	70022982	1	STRAIGHT THREAD ELBOW	
86	70022980	2	FORK PIN KEEPER	
87	70022949	4	LOCKWASHER, M10	
88	70022991	2	STRAIGHT THREAD ELBOW, 90	
89	70022998	4	CAPSCREW, M10X20 LG	
90	70022966	1	GREASE FITTING	
91	70022979	2	HOSE ASSY	
92	70022990	1	FORK PIN	
93	70022965	1	SHEAVE	
94	70022997	1	LOCKWASHER, M12	
95	70022967	4	HOSE CLAMP	
96	70022962	1	BAR ASSY	
97	70023002	4	CAPSCREW, M6X25 LG	
98	70022949	5	LOCKWASHER, M10	
99	70022958	3	CAPSCREW, M10X20	
100	70022961	1	SHAFT	

SECTION 3 - ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	70022959	1	WASHER	
102	70022989	1	RETAINING RING	
103	70022964	1	CAPSCREW, M12X55	
104	70022981	1	IHR BRACKET	
105	70022968	1	HOSE CLAMP BAR	
106	70023011	1	IHR BRACKET	
107	70022983	1	TERMINATION BRACKET	
108	70023000	2	BULKHEAD UNION AND LOCKNUT	
109	70022996	3	CAPSCREW, M10X16 LG	
110	70022963	2	HOSE ASSY, (not shown)	
201	N.S.S.	1	SN PLATE	
K1	70023925	1	DECAL KIT, (includes items 1 thru 6)	
K2	70023005	1	SEAL KIT, MAIN LIFT CYLINDER, (includes items 8, 9, 13, 14, 16, 17, 19, 21, 23, 24 & 25)	
K3	70023006	1	CHECK VALVE KIT, (includes items 18, 19, 20, 21 & 23)	
K4	70023007	1	SHIM KIT	
K5	70023015	1	MAST COMMON PARTS KIT, (includes items 27 thru 42)	
K6	8035831	1	SEAL KIT, TILT CYLINDER	
K7	70023013	1	IHR COMMON PARTS KIT, (includes items 93 thru 109)	
K8	70022986	1	IHR KIT, (includes items 93 thru 110)	

SECTION 3 - ATTACHMENTS

FIGURE 3-29. 50 IN SIDE SHIFT CARRIAGE (SN 0160037671 to Present)



SECTION 3 - ATTACHMENTS

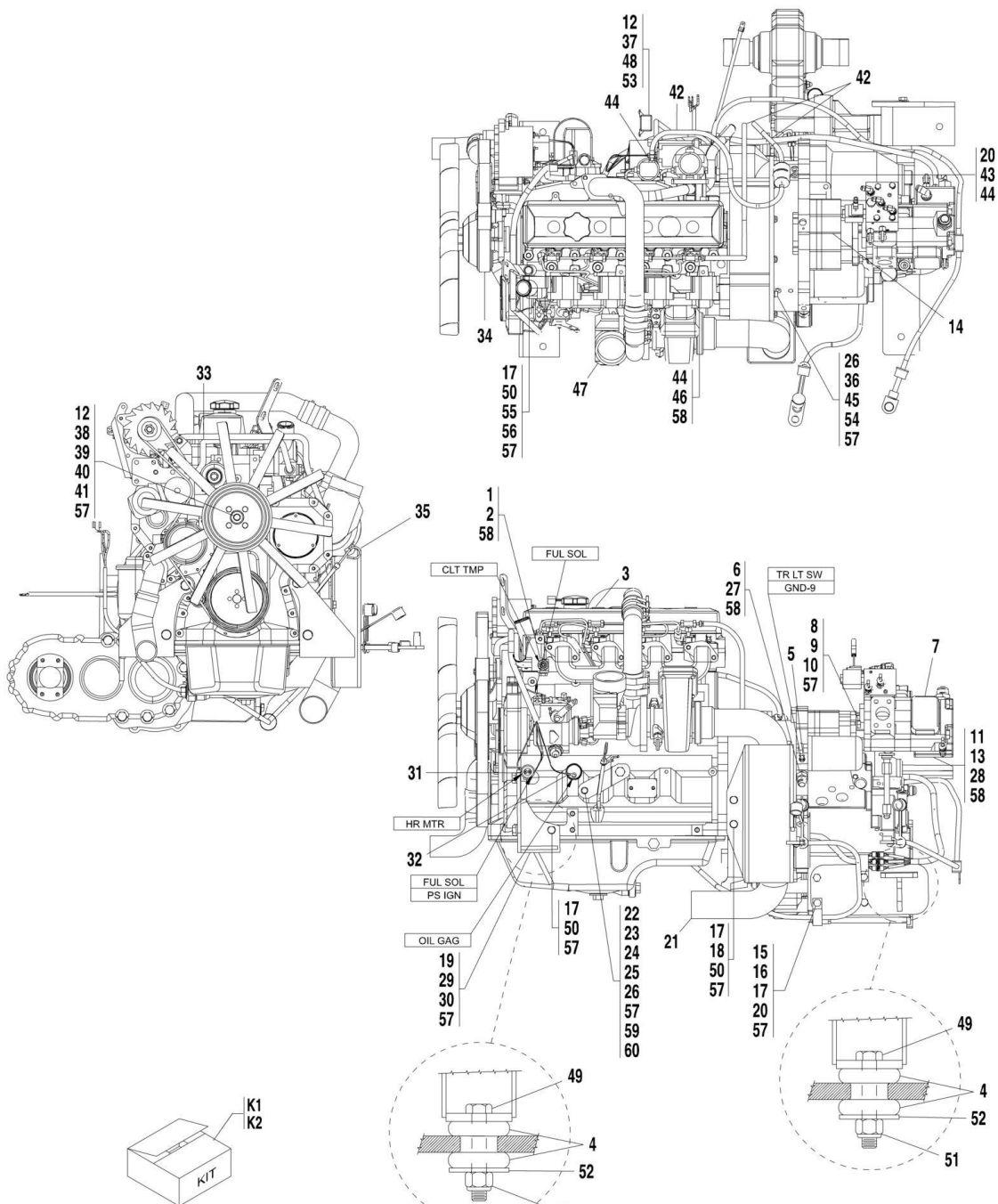
FIGURE 3-29. 50 IN SIDE SHIFT CARRIAGE (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142790	1	50 IN 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	50 IN 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 ASSEMBLY, LH VIEW - JOHN DEERE ENGINE (SN 0193001 through 0193007, SN 0160000008 through 0160003121, Excluding 0160002658)



NOTE: 1. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
2. USE LOCTITE® 545™ (0100075) ON ALL FITTINGS.

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SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE (SN 0193001 through 0193007, SN 0160000008 through 0160003121, Excluding 0160002658)

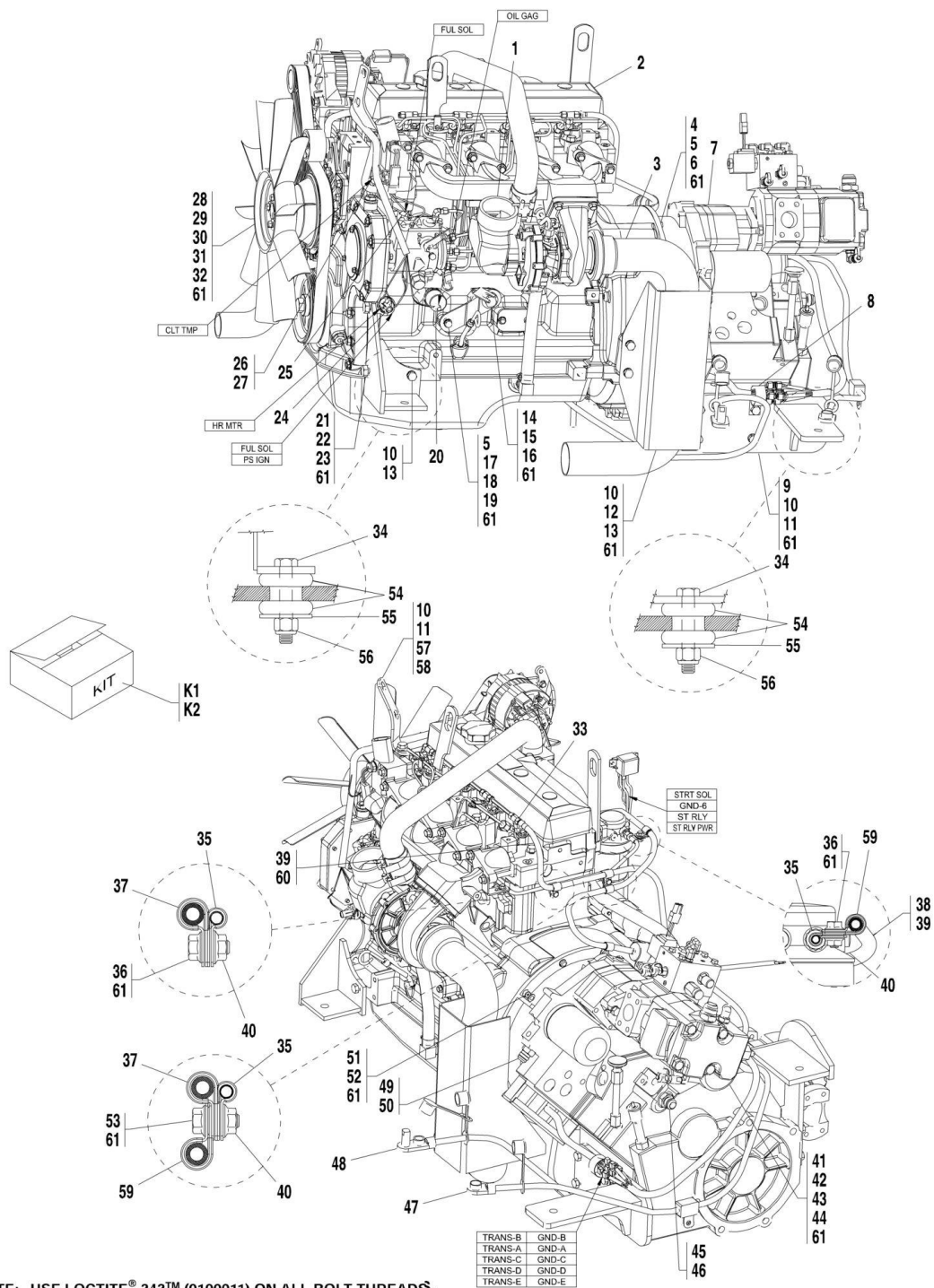
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515040	Ref	ENGINE ASSY, (not available to order, see items 1, 2, 3, 5 thru 11, 13 thru 35, 38 thru 52, four of item 12, 54 thru 60 and all items on ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE for service)	K
1	91143314	1	WATER TEMPERATURE SENSOR	
2	91403265	1	ADAPTER FITTING	
3		Ref	JOHN DEERE ENGINE, (See DEERE ENGINE for Breakdown)	
4	91473093	4	SHOCK MOUNT	
5	91473115	1	TRANSMISSION TEMPERATURE SWITCH (SN 0193001 through 0160002051)	
6	2220408	1	CONNECTOR, (includes item 27)	
7		Ref	TANDEM IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
8	4761800	2	LOCKWASHER, 1/2	
9	0641812	2	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
10	88991001	1	O-RING	
11	2220655	1	ELBOW, 90, (swivel nut)	
12	4761500	6	LOCKWASHER, 5/16	
13	2220451	1	CONNECTOR, (includes item 28)	
14		Ref	TRANSMISSION, (See DANATRANSMISSION - CONVERTER HOUSING GROUP for Breakdown)	
15	91476028	1	LH TRANSMISSION MOUNT	
16	0761215	6	HEX HD CAPSCREW, M12X1.50X20, (torque to 66-76 lb-ft)	
17	83191010	9	LOCKWASHER, M12	
18	91471145	1	HEAT SHIELD	
19	0761614	4	HEX HD CAPSCREW, M16X2X30, (torque to 166-181 lb-ft)	
20	90028660	5	SUPPORT CLAMP	
21		Ref	EXHAUST AND INSTALLATION, (See EXHAUST INSTALLATION - JOHN DEERE ENGINE for Breakdown)	
22	91471172	1	ACCELERATOR CABLE BRACKET (SN 0193001 through 0160001382)	
22	91471230	1	ACCELERATOR CABLE BRACKET (SN 0160001392 through 0160003121)	
23	0761010	1	HEX HD CAPSCREW, M10X1.50X20	
24	91403293	1	HEX HD CAPSCREW, M14X2.00X25	
25	83191014	1	LOCKWASHER, M14	
26	83191013	12	LOCKWASHER, M10	
27	88591206	1	O-RING	
28	88591207	1	O-RING	
29	91406026	1	LH FRONT ENGINE MOUNT	
29	91406027	1	RH FRONT ENGINE MOUNT	
30	83783030	4	LOCKWASHER, M16	
31	24741047	1	OIL PRESSURE SWITCH	
32	91143315	1	OIL PRESSURE SENSOR	
33	90027187	6	TIE WRAP	
34	91404086	1	FAN BELT	
35	91474171	1	DIPSTICK	
36	0651614	8	HEX HD CAPSCREW, 3/8-24X1-3/4, GR5	
37	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
38	91513159	1	FAN	
39	91403248	1	FAN SPACER	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
40	0760822	4	HEX HD CAPSCREW	
41	4711500	4	FLAT WASHER, 5/16	
42	82092118	200 in	FUEL LINE, 5/16, ID	
43	91083218	1	FUEL STRAINER	
44	86883106	4	HOSE CLAMP	
45	0771014	10	HEX HD CAPSCREW, M10X1.50X30, (torque to 53-58 lb-ft)	
46	80373025	1	PUSH LOCK FITTING	
47		Ref	AIR CLEANER AND INSTALLATION, (See AIR CLEANER AND INSTALLATION - JOHN DEERE ENGINE for Breakdown)	
48	77383377	1	STARTER RELAY	
49	83201044	4	HEX HD CAPSCREW, 5/8-11X4	
50	83191004	5	HEX HD CAPSCREW, M12X1.75X30, (torque to 66-76 lb-ft)	
51	88521010	4	HEX LOCKNUT, 5/8-11	
52	91081158	4	ROUND WASHER SPECIAL	
53	88501004	2	HEX NUT, 1/4-20	
54	91513234	1	SOCKET HD CAPSCREW, M10X1.5X30, GR10.9	
55	91511166	1	AIR INTAKE BRACKET	
56	88561111	1	FLAT WASHER, 1/2	
57	0100011	AR	LOCTITE 242	
58	0100075	AR	LOCTITE 545	
59	80233220	1	FLAT WASHER, 10mm	
60	88561007	1	FLAT WASHER, 9/16	
K1	91415064	1	250 HOUR FILTER KIT, (includes oil filter, fuel filter, fuel strainer, primary air filter element and safety air filter element)	C
K2	1001128960	1	1000 HOUR FILTER KIT, (includes oil filter, fuel filter, fuel strainer, primary air filter element, safety air filter element, hydraulic filter, hydraulic breather and transmission filter)	1

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE (SN 0160003210 through 0160040674, Including 0160002658, Excluding 0160040468 and 0160040672)



SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE (SN 0160003210 through 0160040674, Including 0160002658, Excluding 0160040468 and 0160040672)

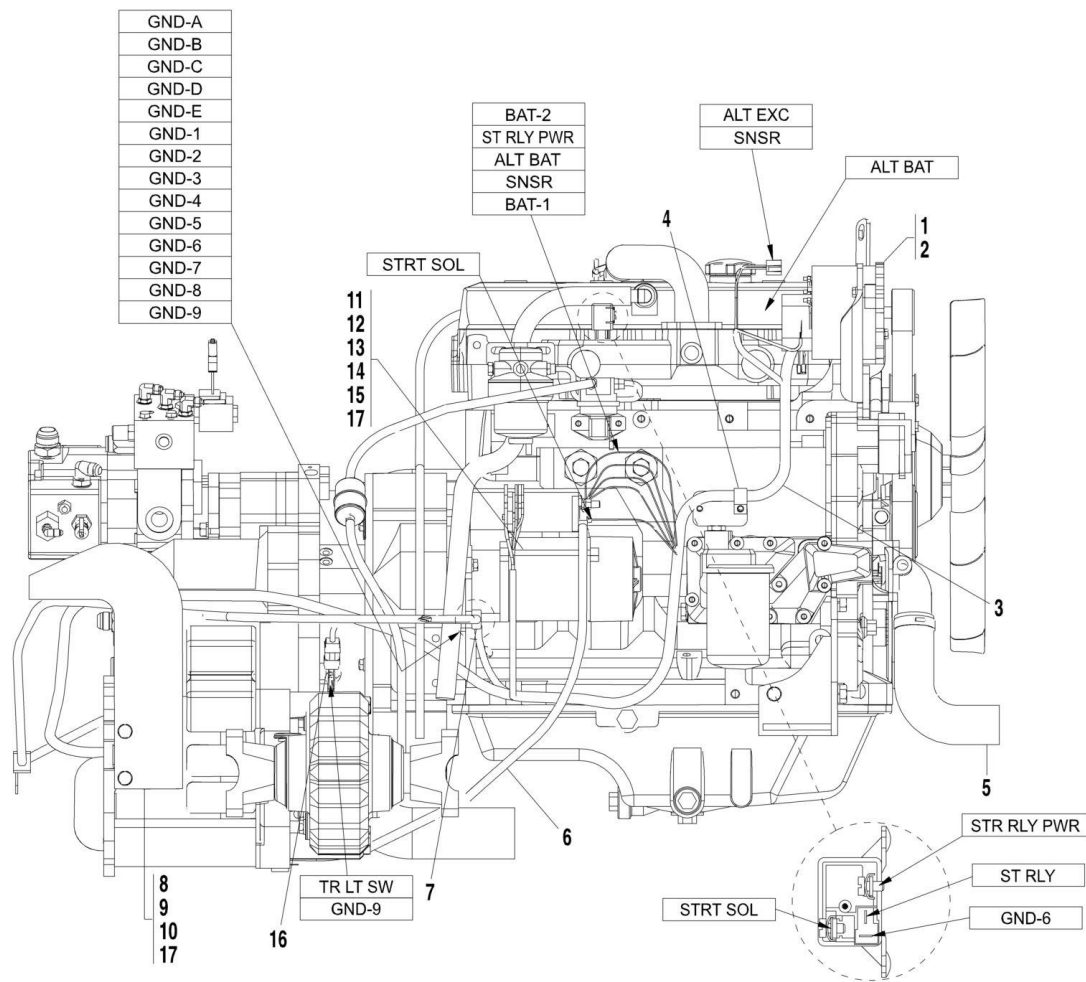
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515060	Ref	ENGINE ASSY, (not available to order, see items 1 thru 33, 35 thru 53 & 57 thru 62 on ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE and all items on ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE for service)	N
1		Ref	AIR CLEANER INSTALLATION, (See AIR CLEANER AND INSTALLATION - JOHN DEERE ENGINE for Breakdown)	
2		Ref	JOHN DEERE ENGINE, (See DEERE ENGINE for Breakdown)	
3		Ref	EXHAUST INSTALLATION, (See EXHAUST INSTALLATION - JOHN DEERE ENGINE for Breakdown)	
4	0651614	8	HEX HD CAPSCREW, 3/8-24X1-3/4, GR5	
5	83191013	12	LOCKWASHER, M12	
6	0771014	10	HEX HD CAPSCREW, M10X1.5X30, GR10.9	
7		Ref	TRANSMISSION, (See DANATRANSMISSION - CONVERTER HOUSING GROUP for Breakdown)	
8	90028660	1	SUPPORT CLAMP	
9	91476028	1	LH TRANSMISSION MOUNT	
10	83191010	8	LOCKWASHER, M12	
11	83191032	5	HEX HD CAPSCREW, M12X1.75X35, (torque to 66-76 lb-ft)	
12	91471145	1	HEAT SHIELD	
13	83191004	3	HEX HD CAPSCREW, M12X1.75X30, (torque to 66-76 lb-ft)	
14	91403293	1	HEX HD CAPSCREW, M14X2X25	
15	83191014	1	LOCKWASHER, M14	
16	88561007	1	FLAT WASHER, 9/16	
17	91471230	1	ACCELERATOR CABLE BRACKET	
18	83191038	1	HEX HD CAPSCREW, M10X1.5X20	
19	80233220	1	FLAT WASHER, M10	
20	91143315	1	OIL PRESSURE SENDER	
21	91406026	1	LH FRONT ENGINE MOUNT	
22	83783030	2	LOCKWASHER, M16	
23	83191043	2	HEX HD CAPSCREW, M16X2X30, (torque to 166-181 lb-ft)	
24	24741047	1	OIL PRESSURE SWITCH	
25	91473223	1	MALE SPADE TAB	
26	91143314	1	WATER TEMPERATURE SENDER	
27	88712306	1	REDUCER BUSHING	
28	91513159	1	FAN	
29	91403248	1	FAN SPACER	
30	83191041	4	HEX HD CAPSCREW, M8X1.25X70	
31	88561108	4	FLAT WASHER, 5/16	
32	88551010	4	LOCKWASHER, 5/16	
33	80373025	1	PUSH LOCK FITTING	
34	0682032	4	HEX HD CAPSCREW, 5/8-11X4	
35	91203039	3	SUPPORT CLAMP, 1/4 DIA	
36	77143003	2	WHIZ-LOCK SCREW, 5/16-18X5/8	
37	24861170	2	SUPPORT CLAMP, 11/16 DIA	
38	2750532	30 in	FUEL LINE, 3/8 ID	
39	86883106	3	HOSE CLAMP	
40	77143006	3	WHIZ-LOCK NUT, 5/16-18	
41		Ref	TANDEM IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
42	88201067	2	HEX HD CAPSCREW, 1/2-13X1-1/2	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	88551013	2	LOCKWASHER, 1/2	
44	88991001	1	O-RING	
45	2220451	1	CONNECTOR, (includes item 46)	
46	N.S.S.	1	O-RING	
47		Ref	NEGATIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)	
48		Ref	POSITIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)	
49	2220408	1	CONNECTOR, (includes item 50)	
50	N.S.S.	1	O-RING	
51	91513234	1	SOCKET HD CAPSCREW, M10X1.5X30, GR10.9, (torque to 53-58 lb-ft)	
52	83191013	1	LOCKWASHER, M10	
53	0791506	1	WHIZ-LOCK SCREW, 5/16-18X3/4	
54	91473093	4	SHOCK MOUNT	
55	91081158	4	SPECIAL ROUND WASHER	
56	88521010	4	STOVER HEX NUT, 5/8-11	
57	88561111	1	FLAT WASHER, 1/2	
58	91511166	1	AIR INTAKE BRACKET	
59	91143122	2	CLAMP	
60	2720058	100 in	FUEL LINE, 5/16 ID	
61	0100011	AR	LOCTITE 242	
K1	91415084	1	250 HOUR FILTER KIT, (includes oil filter and seal, fuel filter, fuel strainer, primary air filter element and safety air filter element)	6
K2	2915176	1	1000 HOUR FILTER KIT, (includes oil filter and seal, fuel filter, fuel strainer, primary air filter element, safety air filter element, hydraulic element, hydraulic breather and transmission filter)	4

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FIGURE 4-3. ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE (SN 0193001 through 0193007, SN 016000008 through 0160003121, Excluding 0160002658)



NOTE: 1. USE LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
2. USE LOCTITE® 545™ (0100075) ON ALL FITTINGS.
3. ADD 12 QTS. OF OIL (14403420) TO CRANKCASE.

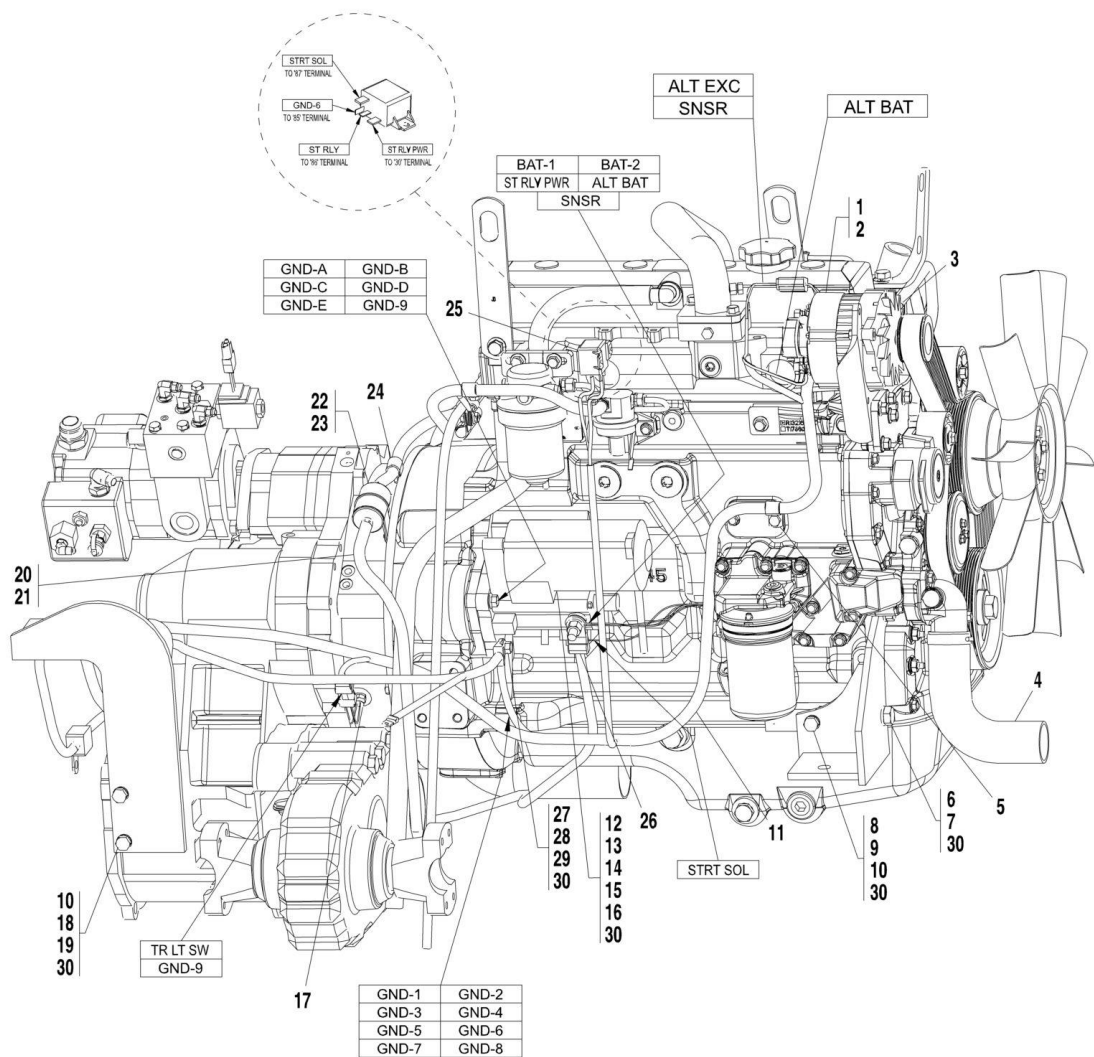
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE (SN 0193001 through 0193007, SN 0160000008 through 0160003121, Excluding 0160002658)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515040	Ref	ENGINE ASSY, (not available to order, see items 1, 2, 3, 5 thru 11, 13 thru 35, 38 thru 52, four of item 12, 54 thru 62 on ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE and all items on ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE for service)	K
1	1001108293	1	ALTERNATOR, (includes item 2)	
2	1001108291	1	REGULATOR	
3		Ref	WIRING HARNESS, (See ELECTRICAL SECTION for Breakdown)	
4	91143122	1	SUPPORT CLAMP	
5		Ref	RADIATOR ASSY, (See RADIATOR ASSEMBLY - JOHN DEERE ENGINE for Breakdown)	
6		Ref	POSITIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)	
7		Ref	NEGATIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)	
8	91476022	1	RH TRANSMISSION MOUNT	
9	83191032	2	HEX HD CAPSCREW, M12X1.75X35, (torque to 66-76 lb-ft)	
10	83191010	2	LOCKWASHER, M12	
11	83191013	3	LOCKWASHER, M10	
12		Ref	STARTER, (Prestolite), (includes item 14), (no longer available, See OPTIONS SECTION for Breakdown)	
13	83191062	2	SOCKET HD CAPSCREW, M10X1.5X40, (torque to 38-48 lb-ft)	
14	91414040	1	STARTER SOLENOID	
15	83191040	1	SOCKET HD CAPSCREW, M10X1.5X30, (torque to 38-48 lb-ft)	
16	91563121	1	TRANSMISSION TEMPERATURE SWITCH (SN 0160002054 through 0160003121)	
17	0100011	AR	LOCTITE 242	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE (SN 0160003210 through 0160040674, Including 0160002658, Excluding 0160040468 and 0160040672)



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

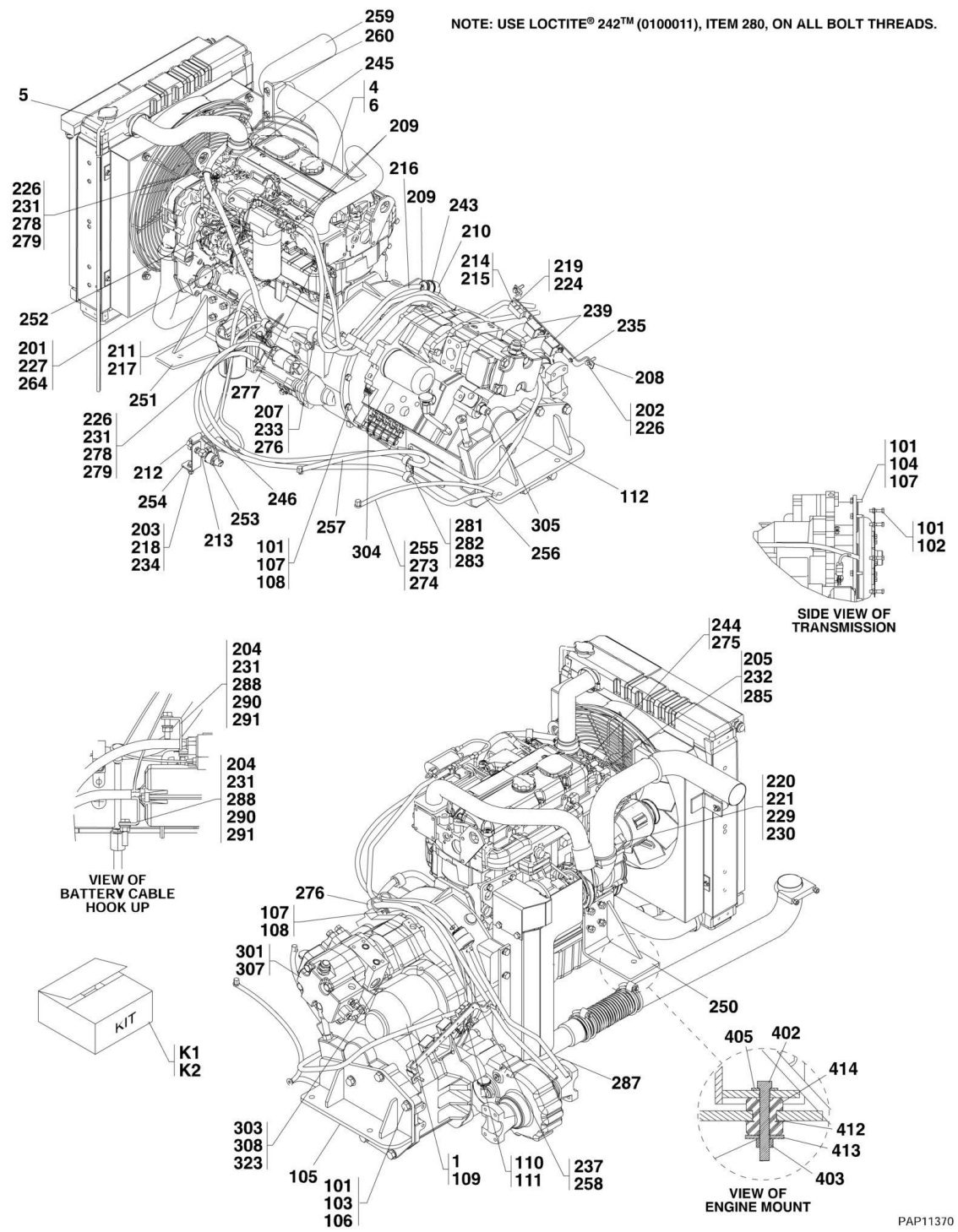
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE (SN 0160003210 through 0160040674, Including 0160002658, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515060	Ref	ENGINE ASSY, (not available to order, see items 1 thru 33, 35 thru 53 & 57 thru 65 on ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE and all items on ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE for service)	N
1	1001108293	1	ALTERNATOR, (includes item 2)	
2	1001108291	1	REGULATOR	
3	90027187	6	TIE WRAP	
4		Ref	RADIATOR INSTALLATION, (See RADIATOR ASSEMBLY - JOHN DEERE ENGINE for Breakdown)	
5	91143122	1	SUPPORT CLAMP	
6	83783030	2	LOCKWASHER, M16	
7	83191043	2	HEX HD CAPSCREW, M12X2X30, (torque to 166-181 lb-ft)	
8	91406027	1	RH FRONT ENGINE MOUNT	
9	83191004	1	HEX HD CAPSCREW, M12X1.75X30, (torque to 66-76 lb-ft)	
10	83191010	3	LOCKWASHER, M12	
11		Ref	WIRING HARNESS, (See ELECTRICAL SECTION for Breakdown)	
12		Ref	STARTER , (Prestolite), (includes item 13), (no longer available, See OPTIONS SECTION for Breakdown) (SN 0160003210 through 0160006663, Including 0160002658, Excluding 0160006594, 0160006617, 0160006621 and 0160006599)	
13	91414040	1	STARTER SOLENOID	
14	83191062	2	SOCKET HD CAPSCREW, M10X1.5X40, (torque to 38-48 lb-ft)	
15	83191040	1	SOCKET HD CAPSCREW, M10X1.5X30, (torque to 38-48 lb-ft), (top inner mtg hole)	
16	83191013	3	LOCKWASHER, M10	
17	91563121	1	TEMPERATURE SWITCH	
18	83191032	2	HEX HD CAPSCREW, M12X1.75X35, (torque to 66-76 lb-ft)	
19	91476022	1	RH TRANSMISSION MOUNT	
20	2750532	72 ft	FUEL LINE, 3/8 ID	
21	86883106	1	HOSE CLAMP	
22	91083218	1	FUEL STRAINER	
23	90028660	1	SUPPORT CLAMP	
24	91143122	1	SUPPORT CLAMP, 5/8 DIA	
25	77383377	1	STARTER RELAY	
26	3291201	1	HEX NUT, 12mm-1.75	
27	5251016	1	HEX FLANGE SCREW, 10-15X40mm	
28	5261000	1	HEX FLANGE NUT, 10mm-15	
29	91043342	1	STUD	
30	0100011	AR	LOCTITE 242	

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FIGURE 4-5. ENGINE ASSEMBLY - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)



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FIGURE 4-5. ENGINE ASSEMBLY - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0275537	Ref	DANA TRANSMISSION ASSY, (not available to order, see items 101 thru 112 for service)	A
4	1001001491	Ref	ENGINE COMPONENTS, (not available to order, see items 201 thru 291 for service)	J
5		Ref	RADIATOR ASSY, (See RADIATOR ASSEMBLY - PERKINS ENGINE for Breakdown)	
6		Ref	PERKINS ENGINE, (See PERKINS ENGINE for Breakdown)	
101	0100011	AR	LOCTITE 242	
102	0651614	8	HEX HD CAPSCREW, 3/8-24X1-3/4	
103	0701617	5	HEX HD CAPSCREW, M16X45	
104	0711015	10	HEX HD CAPSCREW, M10X35	
105	4341318	1	TRANSMISSION MOUNT BRACKET WELDMENT	
106	4712000	5	PLAIN WASHER, 5/8	
107	4812000	11	WASHER, 10mm	
108	91513234	1	SOCKET HD CAPSCREW, M10X1.5X30mm	
109		Ref	DANA 4-SPEED TRANSMISSION, (See DANATRANSMISSION - CONVERTER HOUSING GROUP for Breakdown)	
110	0100020	AR	LOCTITE 567	
111	91563121	1	TEMPERATURE SWITCH	
112		Ref	DANA TRANSMISSION HARNESS, (See ELECTRICAL SECTION for Breakdown)	
201	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4	
202	0681510	2	HEX HD CAPSCREW, 5/16-18X1-1/4	
203	0681610	1	HEX HD CAPSCREW, 3/8-16X1-1/4	
204	0700815	2	HEX HD CAPSCREW, 8X35mm, GR8.8	
205	0761012	2	HEX HD CAPSCREW, M10X25	
207	0761215	1	HEX HD CAPSCREW, M12X35	
208	0902991	1	ELECTRIC RELAY BRACKET	
209	1320022	4	BAND CLAMP	
210	90028660	1	LOOP CLAMP, 1-3/4	
211	2220574	1	FITTING, 1/8MP-1/4MJ	
212	2221164	1	FITTING, 1/8PT-1/4JIC BULKHEAD	
213	2221165	1	TEE FITTING, 1/8FPT	
214	2400073	1	FUSE HOLDER	
215	2400074	1	FUSE, 50 AMP	
216	2720058	128 in	FUEL LINE HOSE	
217	2753000	1	HOSE	
218	3311605	1	HEX NUT, 3/8-16, GR2	
219	3290305	2	PREV TORQUE HEX LOCKNUT, M3X0.5	
220	3290501	1	HEX NUT, M5X0.8	
221	3290601	1	HEX NUT, M6X1	
224	4010308	2	POZIDRIVEN PAN HD SCREW, 3X16	
226	4711500	4	PLAIN WASHER, 5/16	
227	4761400	2	LOCKWASHER, 1/4	
229	4831600	1	SPRING LOCKWASHER, 5mm	
230	4831700	1	SPRING LOCKWASHER, 6mm	
231	4831900	4	SPRING LOCKWASHER, 8mm	
232	4832000	2	SPRING LOCKWASHER, 10mm	
233	4832100	1	SPRING LOCKWASHER, 12mm	
234	4891600	2	HARDENED WASHER, 3/8	

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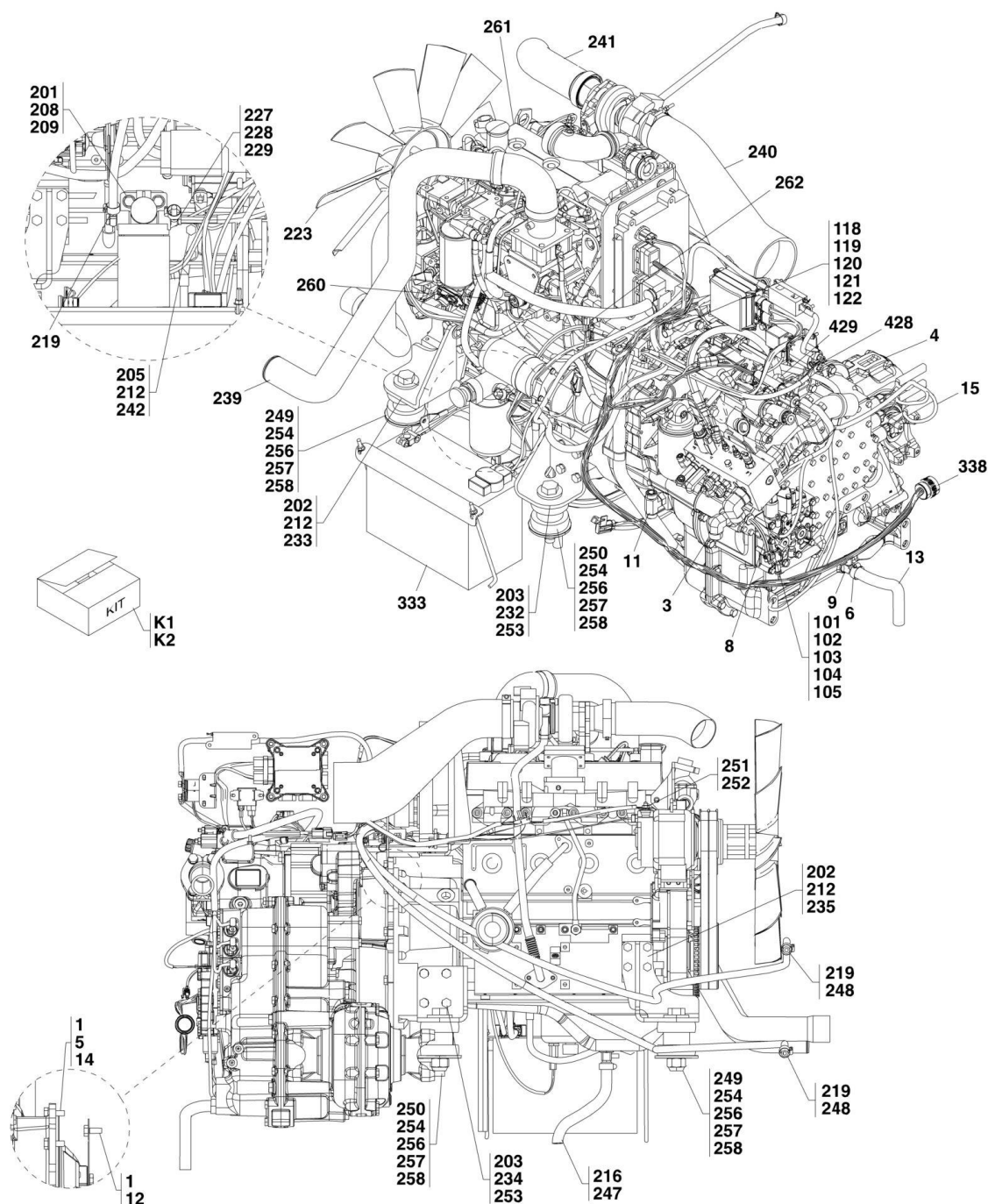
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
235	5200605	5	RIPP BOLT, 6X10mm	
237	10701361	1	EXTERNAL TOOTH LOCKWASHER, 0.500	
238	24921332	1	EXHAUST CLAMP, (not shown)	
239	77383377	2	BOSCH STARTER RELAY	
243	91083218	1	FUEL STRAINER	
244	91143122	1	SUPPORT CLAMP	
245	91143314	1	WATER TEMPERATURE SENSOR, 1/8NPT	
245	1001001535	1	WATER TEMPERATURE SENSOR, 1/2-14NPT	
246	91143315	1	OIL PRESSURE SENSOR	
247	91163129	1	BAND CLAMP, (not shown)	
250	1001001506	1	RH ENGINE MOUNT	
251	1001001507	1	LH ENGINE MOUNT	
252		Ref	ENGINE HARNESS, (See ELECTRICAL SECTION for Breakdown)	
253	1001001514	1	OIL PRESSURE SENDER	
254	1001001518	1	MOUNT PLATE BRACKET	
255	1001001520	1	BATTERY CABLE, (negative battery to frame)	
256	1001001521	1	BATTERY CABLE, (negative frame to starter)	
257	1001001522	1	BATTERY CABLE, (positive)	
258	1001001528	1	CAB GROUND CABLE	
259		Ref	TURBO INTAKE TUBE, (See AIR CLEANER AND INSTALLATION - PERKINS ENGINE for Breakdown)	
260		Ref	TURBO INTAKE MOUNTING BRACKET, (See AIR CLEANER AND INSTALLATION - PERKINS ENGINE for Breakdown)	
264	1001001821	1	THROTTLE CABLE BRACKET	
271	1001001851	1	ELBOW, 90, (not shown)	
272	1001001853	1	BAND CLAMP, (not shown)	
273	77143015	1	WHIZ-LOCK NUT, 3/8-16	
274	77383567	2	BATTERY TERMINAL NUT	
275	0760808	1	HEX HD CAPSCREW, M8X16	
276	24601710	3	SUPPORT CLAMP	
277	88621230	1	SUPPORT CLAMP	
278	80683013	2	SUPPORT CLAMP	
279	0760810	2	HEX HD CAPSCREW, M8X20	
280	0100011	AR	LOCTITE 242	
281	0701214	1	HEX HD CAPSCREW, M12X30	
282	80673023	2	SUPPORT CLAMP	
283	83191010	1	LOCKWASHER, M12	
285	4711600	7	PLAIN WASHER, 3/8	
287	2750532	96 in	FUEL HOSE	
288	6621412	2	STARTER TERMINAL	
289	0760812	1	HEX HD CAPSCREW, 8X25mm, GR8.8, (not shown)	
290	4811900	4	FLAT WASHER, 8mm	
291	3290801	2	HEX NUT, 8X1-1/4mm	
301		Ref	IMPLEMENT HYDRAULIC PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
303	0641812	2	HEX HD CAPSCREW, 1/2-13X1-1/2	
304	2220408	1	CONNECTOR	
305	2220451	1	CONNECTOR	
307	3790045	2	O-RING	
308	4761800	2	LOCKWASHER, 1/2	
323	0100011	AR	LOCTITE 242	
402	0641830	4	HEX HD CAPSCREW, 1/2-13X3-3/4	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
403	3311805	4	HEX LOCKNUT, 1/2-13	
405	4751800	4	PLAIN WASHER, 1/2	
412	91561240	4	ENGINE MOUNT SHIM	
413	91561241	4	ENGINE MOUNT WASHER	
414	91563213	4	RUBBER ENGINE MOUNT	
K1	1001001532	1	250 HOUR FILTER KIT, (includes oil filter and seal, fuel filter, fuel strainer, primary air filter element and safety air filter element)	4
K2	1001113602	1	1000 HOUR FILTER KIT, (includes oil filter and seal, fuel filter, fuel strainer, primary air filter element, safety air filter element, hydraulic filter, hydraulic breather and transmission filter)	2

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. ENGINE ASSEMBLY - CUMMINS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-4-6

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FIGURE 4-6. ENGINE ASSEMBLY - CUMMINS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

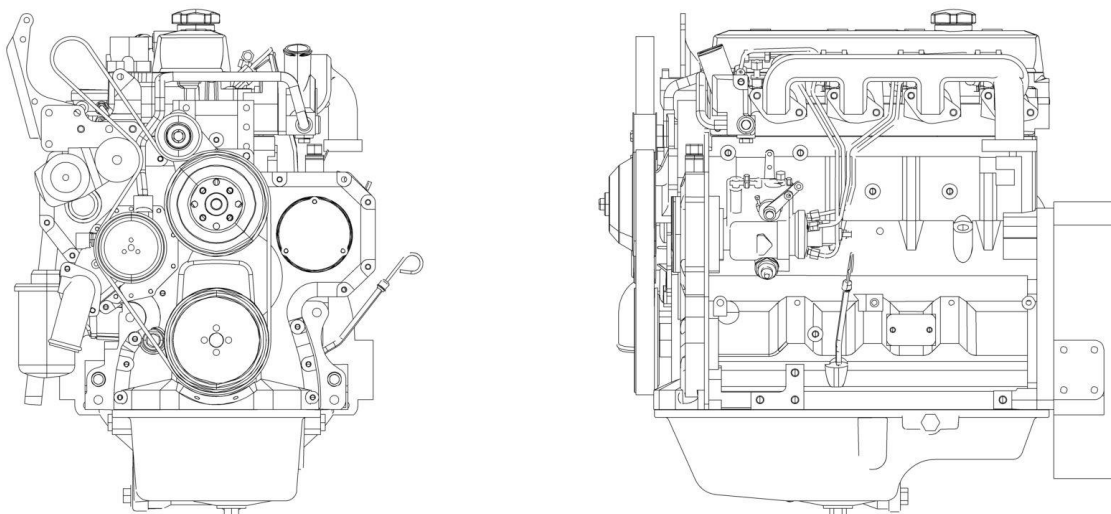
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096786	Ref	ZF TRANSMISSION INSTALLATION, (not available to order, see items 1 thru 15 for service)	I
	1001119480	Ref	ENGINE HYDRAULICS INSTALLATION, (if equipped with hydraulic pump 1001128072), (not available to order, see items 101 thru 122, 428 & 429 for service)	E
	1001136342	Ref	ENGINE HYDRAULICS INSTALLATION, (if equipped with hydraulic pump 1001105613 & 1001170639), (not available to order, see items 101 thru 122, 428 & 429 for service)	D
	1001119642	Ref	ENGINE COMPONENTS INSTALLATION, (not available to order, see items 201 thru 262 for service)	F
1	0100011	AR	LOCTITE 242	
3	2131210	1	ELBOW, 90, (includes o-ring)	
4		Ref	ZF TRANSMISSION, (See ZF TRANSMISSION for Breakdown)	
5	4812000	12	WASHER, 10mm	
6	8405007	1	GEAR CLAMP	
8	91563121	NLA	TRANSMISSION OIL TEMPERATURE SWITCH, (no longer available, use 1001147072 for replacement)	
8	1001147072	1	TRANSMISSION OIL TEMPERATURE SWITCH	
9	1001097053	1	OIL DRAIN	
11	2170410	1	BRANCH TEE, (includes o-ring)	
12	0761010	4	HEX HD CAPSCREW, 10X20mm, GR8.8, (torque to 23-26 lb-ft)	
13	1001109536	1	DRAIN HOSE	
14	0711014	12	HEX HD CAPSCREW, 10X30mm, GR10.9	
15		Ref	ZF TRANSMISSION HARNESS, (See ELECTRICAL SECTION for Breakdown)	
101		Ref	DISPLACEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
102	8630019	1	O-RING, (located between hydraulic pump & transmission)	
103	5241200	4	WASHER, 12mm	
104	0701215	4	HEX HD CAPSCREW, 12X35mm, GR8.8	
105		Ref	HYDRAULIC MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
118	0791607	1	WHIZ-LOCK SCREW, 3/8-16X7/8	
119	8406101	1	TUBE CLIP, 5/8	
120	8406201	1	TUBE CLIP, 1-1/2	
121	77143015	1	WHIZ-LOCK NUT, 3/8-16	
122	1001131278	1	SUPPORT BAR CLAMP	
201	0641709	2	HEX HD CAPSCREW, 7/16-14X1-1/8, GR5	
202	0701014	8	HEX HD CAPSCREW, 10X30mm, GR8.8	
203	0701215	8	HEX HD CAPSCREW, 12X35MM, GR8.8	
205	0761014	3	HEX HD CAPSCREW, 10X30mm, GR8.8	
208	4711700	2	WASHER, 7/16	
209	4761700	2	LOCKWASHER, 7/16	
212	4832000	11	SPRING LOCKWASHER, 10mm	
216	8405007	1	GEAR CLAMP	
219	8410009	6	GEAR CLAMP	
223	1001098559	1	FAN	
227	1001102931	2	BANJO BOLT, 14mm	
228	1001102933	4	COPPER RING SEAL	
229	1001113511	2	BANJO ADAPTER	
232	1001119482	1	ENGINE MOUNT	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
233	1001119483	1	ENGINE MOUNT	1
234	1001119484	1	ENGINE MOUNT	
235	1001119485	1	ENGINE MOUNT	
239		Ref	RADIATOR HOSE, LOWER, (See RADIATOR ASSEMBLY - CUMMINS ENGINE for Breakdown)	
240		Ref	AIR CLEANER, INTAKE HOSE, (See AIR CLEANER AND INSTALLATION - CUMMINS ENGINE for Breakdown)	
241		Ref	EXHAUST PIPE, (See EXHAUST INSTALLATION - CUMMINS ENGINE for Breakdown)	
242	1001120026	1	FUEL FILTER MOUNT PLATE	
247	1001109536	1	OIL DRAIN HOSE	
248	8390001	231 in	FUEL LINE HOSE	
249	0682440	2	HEX HD CAPSCREW, 7/8-9X5, GR8, (torque to 605 lb-ft)	
250	0682444	2	HEX HD CAPSCREW, 7/8-9X5-1/2, GR8, (torque to 605 lb-ft)	
251	3290801	1	HEX NUT, M8X1.25	
252	4831900	1	SPRING LOCKWASHER, 8mm	
253	4832100	8	SPRING LOCKWASHER, 12mm	
254	4892500	4	HARDENED THICK WASHER, 7/8	
256	8305634	4	LOCKNUT, 7/8-9	
257	80373049	4	REBOUND WASHER	
258	1001116961	4	ENGINE MOUNT	
260	1001126918	1	DIAGNOSTIC PORT PLATE	
261		Ref	ENGINE, (See CUMMINS ENGINE for Breakdown)	
262	1001127519	1	FUEL HARNESS	
333		Ref	BATTERY, (See ELECTRICAL SECTION for Breakdown)	
338		Ref	ENGINE HARNESS, (See ELECTRICAL SECTION for Breakdown)	
428	91053020	1	COUPLING, TEST PORT	
429	2130604	1	ADAPTER, 90 S, (if equipped with hydraulic pump 1001128072)	
429	2150604	1	ELBOW, 45, (includes o-ring), (if equipped with hydraulic pump 1001105613 & 1001170639)	
K1	1001133662	1	250 HOUR FILTER KIT, (includes oil filter, primary fuel filter, secondary fuel filter, primary air filter element and safety air filter element)	
K2	1001133663	1	1000 HOUR FILTER KIT, (includes oil filter, primary fuel filter, secondary fuel filter, primary air filter element, safety air filter element, hydraulic filter, hydraulic breather and transmission filter)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. DEERE ENGINE (SN 0193001 through 0193007, SN 0160000008 through 0160003121, Excluding 0160002658)



SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. DEERE ENGINE (SN 0193001 through 0193007, SN 0160000008 through 0160003121, Excluding 0160002658)

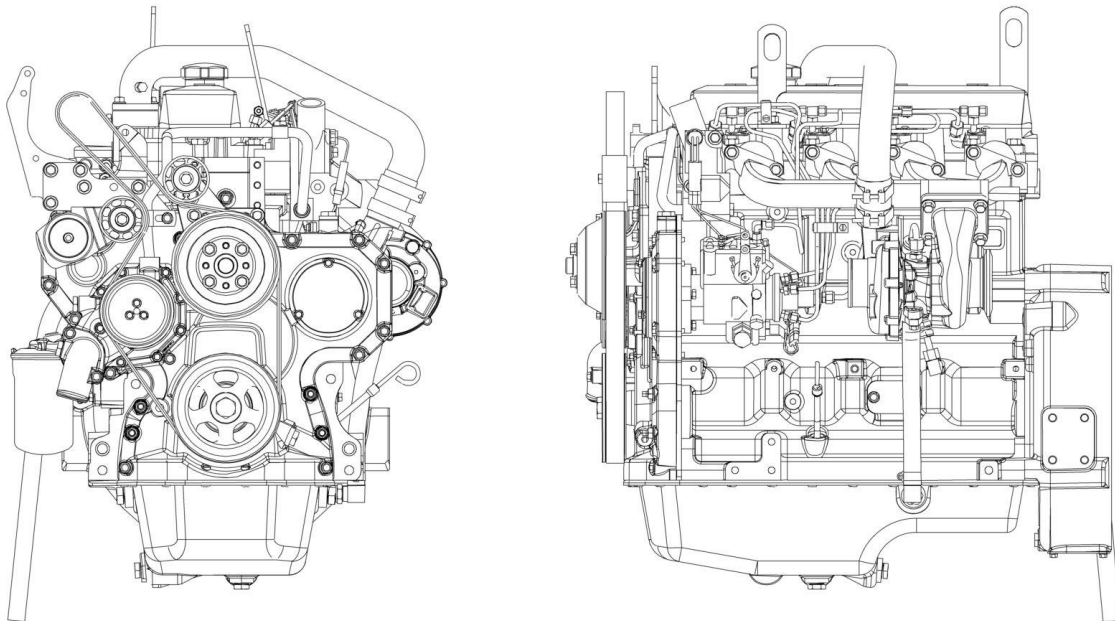
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91473017	1	JOHN DEERE ENGINE, (includes all items)	
	91404219	1	GASKET KIT OVERHAUL	
	91404220	1	ENGINE CYLINDER HEAD GASKET	
	91404221	1	BOLT, BELT TENSIONER	
	91404222	1	SCREW, BELT TENSIONER	
	91404223	1	SHEAVE, BELT TENSIONER	
	91404265	1	GASKET	
	91404266	2	O-RING	
	91404267	1	GASKET	
	91404268	1	HYDRAULIC HOSE	
	91404269	1	TURBO CHARGER	
	91404224	1	OIL COOLER	
	91404225	1	GASKET, OIL COOLER	
	91404226	1	GASKET, OIL COOLER	
	91404227	2	O-RING, OIL COOLER	
	91404228	2	O-RING, OIL COOLER	
	91404229	1	O-RING, WATER PUMP INLET	
	91404230	1	KIT, WATER PUMP REPAIR	
	70023425	1	SEAL, FRONT MAIN SEAL	
	91404232	1	GASKET, WATER PUMP	
	91404233	1	WATER PUMP	
	91404234	4	GASKET, EXHAUST MANIFOLD	
	91404235	1	PULLEY, FAN	
	91404236	1	SCREW, FAN PULLEY	
	91404237	1	SPACER, FAN PULLEY	
	91404238	1	SLEEVE, FAN PULLEY	
	91404239	1	BEARING HOUSING WITH BEARING	
	7026927	1	GASKET, THERMOSTAT	
	91404241	3	PLUG, OIL PAN	
	91404242	1	GASKET, OIL PAN	
	91404243	2	O-RING, OIL DRAIN	
	91404270	1	WASHER, INJECTOR	
	91404248	1	SLEEVE, INJECTOR	
	91404271	1	PACKING, INJECTOR	
	91404272	1	INJECTOR NOZZLE	
	91404273	1	PLUG INJECTOR	
	91474185	1	FLYWHEEL WITH RINGEAR	
	91404251	1	SEAL, REAR MAIN	
	91404252	1	PULLEY, MAIN	
	91404253	2	GASKET, OIL FILLER	
	91404254	1	PACKING, VALVE COVER NUT	
	91404255	1	PACKING, FILLER CAP	
	91404256	4	PLUG, VALVE COVER	
	91404259	4	O-RING, VALVE COVER	
	91404260	1	COOLANT, PRE MIX, (2.5 gal)	
	91404261	1	COOLANT, CONDITION	
	91404262	1	FUEL TRANSFER PUMP	
	91404263	1	THERMOSTAT	
	91404264	1	THERMOSTAT COVER SEAL	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91404257	1	GASKET, VALVE COVER	
	91404258	1	FILLER CAP, VALVE COVER	
	91474629	1	ALTERNATOR BRACKET	
	91474630	1	ALTERNATOR SUPPORT	
	91474631	1	ALTERNATOR STRAP	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. DEERE ENGINE (SN 0160003210 through 0160006663, Including 0160002658, Excluding 0160006594, 0160006599, 0160006617 and 0160006621)



SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. DEERE ENGINE (SN 0160003210 through 0160006663, Including 0160002658, Excluding 0160006594, 0160006599, 0160006617 and 0160006621)

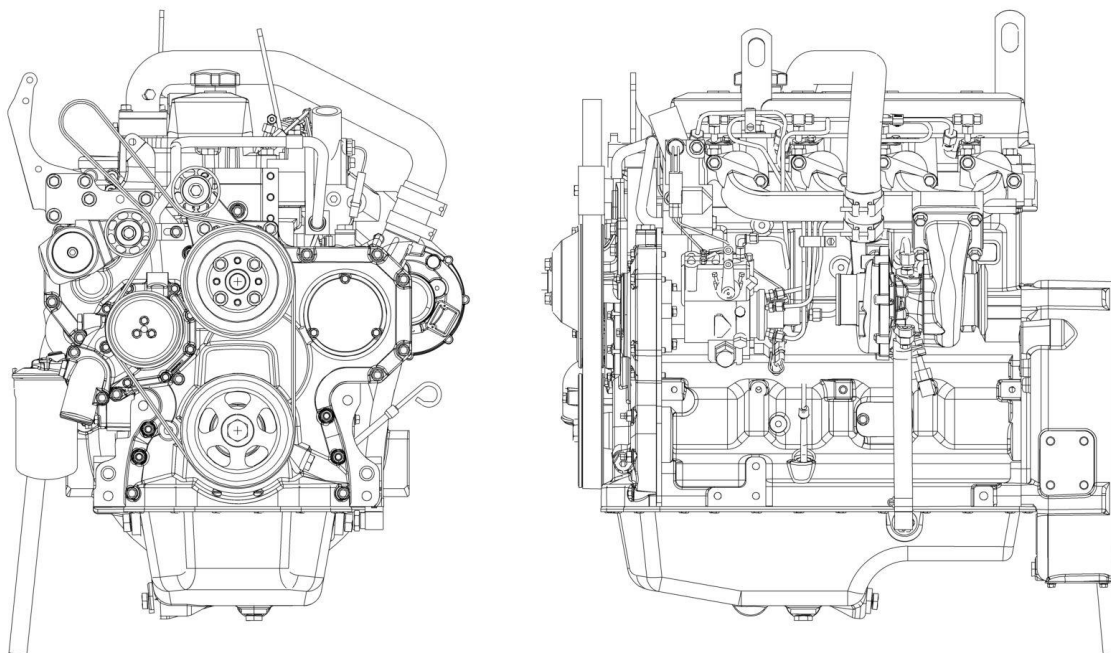
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513231	1	JOHN DEERE ENGINE, 99HP, (includes all items)	C
	91404257	1	GASKET, VALVE COVER	
	91404256	4	PLUG, VALVE COVER	
	91404259	4	O-RING, VALVE COVER PLUG	
	91404258	1	FILLER CAP, VALVE COVER, (includes Packing)	
	91404255	1	PACKING, FILLER CAP	
	91404253	2	GASKET, OIL FILLER	
	91404251	1	SEAL, REAR MAIN	
	91474185	1	FLYWHEEL, (includes Ring Gear)	
	80374031	1	RING GEAR	
	91514256	1	FUEL PUMP	
	91553057	1	GASKET, AIR INLET	
	7026918	1	GASKET, AIR INLET	
	91404242	1	GASKET, OIL PAN	
	80374037	1	O-RING, OIL PUMP INTAKE	
	7026927	1	GASKET, THERMOSTAT COVER	
	7026920	1	THERMOSTAT	
	91404086	1	BELT	
	91404234	4	GASKET, EXHAUST MANIFOLD	
	91404004	1	FUEL FILTER ELEMENT	
	80374054	1	KIT, FUEL FILTER	
	80374050	1	SEAL KIT, FUEL FILTER	
	91404262	1	FUEL PUMP, (includes o-ring)	
	7026923	1	O-RING, FUEL PUMP	
	91474171	1	DIPSTICK	
	80374033	1	DIPSTICK TUBE	
	91404233	1	WATER PUMP	
	91404232	1	GASKET, WATER PUMP	
	91404264	1	GASKET, WATER PUMP	
	70023425	1	SEAL, FRONT MAIN	
	91514260	1	GASKET, FRONT MAIN	
	91514257	1	O-RING, FRONT MAIN COVER	
	91514258	1	OIL PUMP	
	91404220	1	GASKET, CYLINDER HEAD	
	91404229	1	O-RING, WATER PUMP INLET	
	91404224	1	OIL COOLER	
	91404225	1	GASKET, OIL COOLER	
	91404226	1	GASKET, OIL COOLER	
	91514259	1	TURBOCHARGER	
	91404267	1	GASKET, TURBOCHARGER	
	91404265	1	GASKET, TURBOCHARGER	
	91534005	1	OIL FILTER	
	80374036	1	GASKET, OIL FILTER	
	91474506	1	DRAIN PLUG, OIL FILTER HEAD, (includes o-ring)	
	80374020	1	O-RING, DRAIN PLUG	
	91404221	1	BOLT, BELT TENSIONER	
	91404222	1	SCREW, BELT TENSIONER	
	91404223	1	SHEAVE, BELT TENSIONER	
	91474629	1	ALTERNATOR BRACKET	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91474630	1	ALTERNATOR SUPPORT	
	91474631	1	ALTERNATOR STRAP	

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FIGURE 4-9. DEERE ENGINE (SN 0160006686 through 0160040674, Including 0160006594, 0160006599, 0160006617 and 0160006621, Excluding 0160040468 and 0160040672)



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FIGURE 4-9. DEERE ENGINE (SN 0160006686 through 0160040674, Including 0160006594, 0160006599, 0160006617 and 0160006621, Excluding 0160040468 and 0160040672)

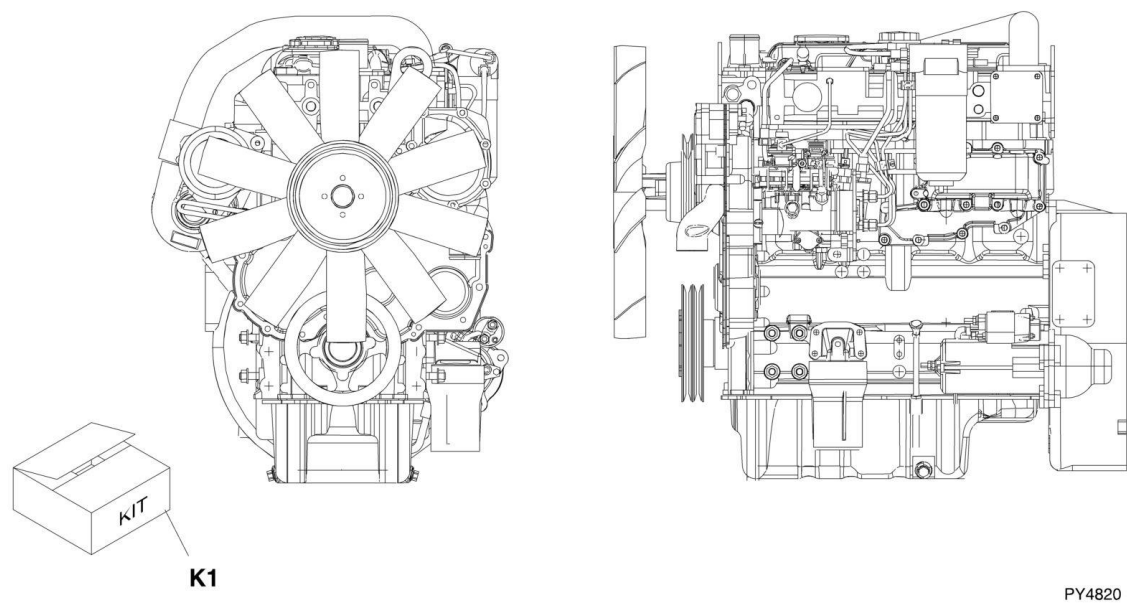
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513271	1	JOHN DEERE ENGINE, 99HP, (includes all items)	B
	91404257	1	GASKET, VALVE COVER	
	91404256	4	PLUG, VALVE COVER	
	91404259	4	O-RING, VALVE COVER PLUG	
	91404258	1	FILLER CAP, VALVE COVER, (includes Packing)	
	91404255	1	PACKING, FILLER CAP	
	91404253	2	GASKET, OIL FILLER	
	91404251	1	SEAL, REAR MAIN	
	91474185	1	FLYWHEEL, (includes Ring Gear)	
	80374031	1	RING GEAR	
	91514256	1	FUEL PUMP	
	91553057	1	GASKET, AIR INLET	
	7026918	1	GASKET, AIR INLET	
	91404242	1	GASKET, OIL PAN	
	80374037	1	O-RING, OIL PUMP INTAKE	
	7026927	1	GASKET, THERMOSTAT COVER	
	7026920	1	THERMOSTAT	
	91404086	1	BELT	
	91404234	4	GASKET, EXHAUST MANIFOLD	
	91404004	1	FUEL FILTER ELEMENT	
	80374054	1	KIT, FUEL FILTER	
	80374050	1	SEAL KIT, FUEL FILTER	
	91404262	1	FUEL PUMP, (includes o-ring)	
	7026923	1	O-RING, FUEL PUMP	
	91474171	1	DIPSTICK	
	80374033	1	DIPSTICK TUBE	
	91404233	1	WATER PUMP	
	91404232	1	GASKET, WATER PUMP	
	91404264	1	GASKET, WATER PUMP	
	70023425	1	SEAL, FRONT MAIN	
	91514260	1	GASKET, FRONT MAIN	
	91514257	1	O-RING, FRONT MAIN COVER	
	91514258	1	OIL PUMP	
	91404220	1	GASKET, CYLINDER HEAD	
	91404229	1	O-RING, WATER PUMP INLET	
	91404224	1	OIL COOLER	
	91404225	1	GASKET, OIL COOLER	
	91404226	1	GASKET, OIL COOLER	
	91514259	1	TURBOCHARGER	
	91404267	1	GASKET, TURBOCHARGER	
	91404265	1	GASKET, TURBOCHARGER	
	91534005	1	OIL FILTER	
	70026994	1	Oil Filter Head, (includes valve and seal)	
	80374036	1	GASKET, OIL FILTER	
	91474506	1	DRAIN PLUG, OIL FILTER HEAD, (includes o-ring)	
	80374020	1	O-RING, DRAIN PLUG	
	91404221	1	BOLT, BELT TENSIONER	
	91404222	1	SCREW, BELT TENSIONER	
	91404223	1	SHEAVE, BELT TENSIONER	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7026921	1	STARTER	
	91474629	1	ALTERNATOR BRACKET	
	91474630	1	ALTERNATOR SUPPORT	
	91474631	1	ALTERNATOR STRAP	
	91404272	4	FUEL INJECTOR	

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FIGURE 4-10. PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)



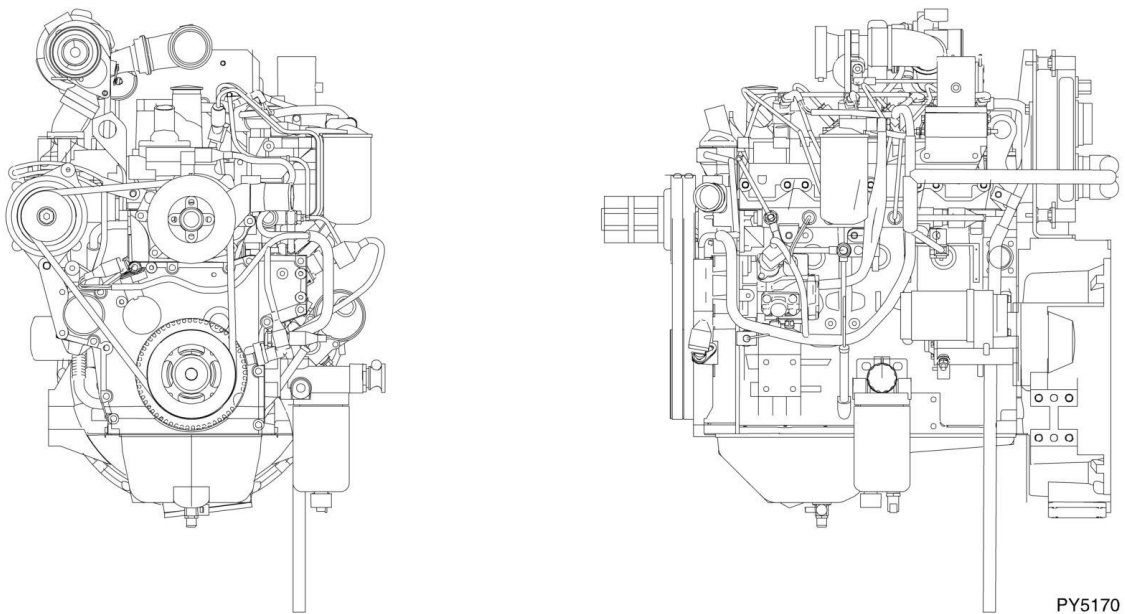
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-10. PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K1	1001001839	1	PERKINS ENGINE, (includes all items)	B
	7028655	1	FUEL FILTER KIT	
	7029894	1	DIPSTICK	
	7029895	1	DIPSTICK TUBE	
	8006013	1	OIL FILTER	
	7029782	1	STARTER MOTOR	
	7029783	1	ALTERNATOR	
	70021487	1	ALTERNATOR BRACKET	
	70022341	1	ALTERNATOR PULLEY, TWO GROOVE	
	7029896	1	THERMOSTAT, (includes o-ring)	
	7029779	1	FAN BELT	
	7029784	1	FAN	
	70022342	1	PULLEY, FAN DRIVE	
	70022353	1	HOUSING, FAN DRIVE	
	70020172	1	FUEL INJECTION PUMP	
	7028681	1	OIL FILLER CAP	
	70020574	1	FUEL LIFT PUMP	
	70022357	1	MOUNTING KIT, FUEL LIFT PUMP	
	70022340	1	BOWL, LIFT PUMP	
	70022339	1	DRAIN PLUG, LIFT PUMP	
	7028677	1	COLD START TEMP. SWITCH	
	7028678	1	COLD START TEMP. SWITCH CABLE	
	7028663	1	WATER PUMP ASSY, (includes water pump gasket)	
	7028666	1	WATER PUMP GASKET	
	70021533	1	TURBOCHARGER	
	70022351	1	OIL FILTER HEAD	
	7028654	1	GASKET, OIL FILTER HEAD	
	7028676	4	GLOW PLUG	
	7028680	1	STARTER RING GEAR	
	7028689	1	FUEL SHUT-OFF SOLENOID	
	70022352	1	COVER, CYLINDER HEAD	
	7028664	1	WATER PUMP REPAIR KIT, (includes parts within the water pump and water pump gasket)	
	70026635	1	Gasket Kit, Top End	
	70026629	1	Gasket Kit, Bottom End	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-11. CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5170

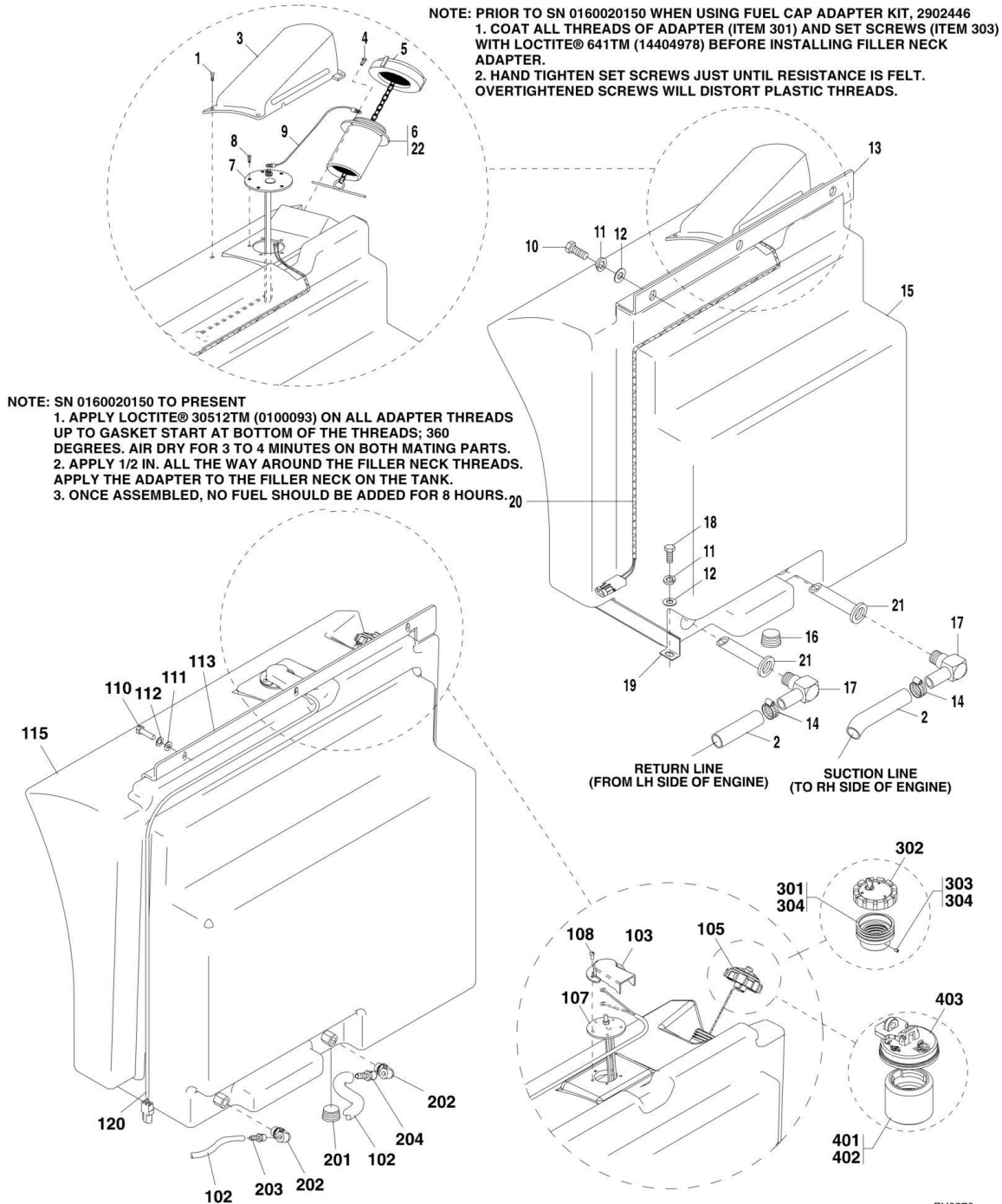
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-11. CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119756	1	CUMMINS ENGINE, 99HP, QSB3.3, (includes all items)	C
	70021849	1	ALTERNATOR	
	70021854	1	DIPSTICK	
	70023793	1	DIPSTICK TUBE	
	70021852	2	FAN BELT	
	8036204	1	OIL FILTER ELEMENT	
	70022843	1	OIL FILL CAP	
	70021850	1	STARTER	
	91414040	1	STARTER SOLENOID	
	70022844	1	OIL PAN PLUG	
	70023807	1	AIR INTAKE HEATER	
	70023791	1	AIR INTAKE HEATER GASKET	
	70023808	1	BLOCK HEATER AND CABLE	
	80384396	2	HEX HD CAPSCREW, 10X30 mm, (secondary fuel filter mounting)	
	70023792	1	SECONDARY FUEL FILTER ASSY, (includes filter element, filter head and seal)	
	70022846	1	FUEL FILTER ELEMENT	
	70023794	1	OIL PAN	
	70023810	1	FAN SPACER	
	70023811	1	PRIMARY FUEL FILTER ASSY, (includes filter element and filter head)	
	70023812	1	PRIMARY FUEL FILTER ELEMENT	
	70023813	1	O-RING SEAL, (used with primary fuel filter)	
	70025893	1	TURBOCHARGER KIT, (includes mounting gasket)	
	70027300	1	Sensor Assy, Speed, (includes o-ring)	

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FIGURE 4-12. FUEL TANK AND LINES (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PY6270

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-12. FUEL TANK AND LINES (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

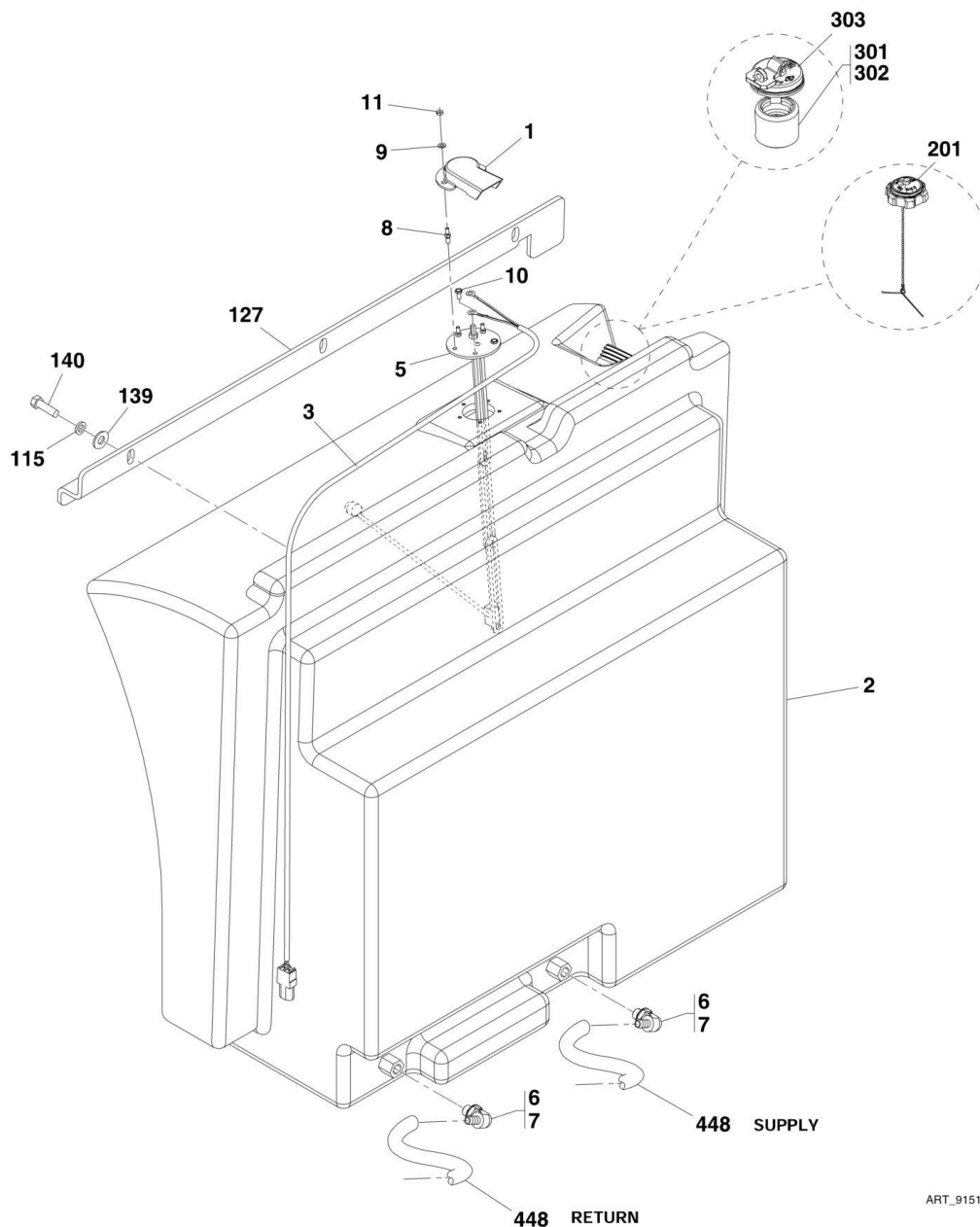
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405042	Ref	FUEL TANK ASSY, (not available to order, see items 4 thru 9, 15, 20 & 22 for service) (Prior to SN 0160020150)	K
	4400496	Ref	FUEL TANK ASSY, (not available to order, see items 103, 107, 108, 115 & 120 for service) (SN 0160020150 to Present)	E
1	77143003	4	WHIZ-LOCK BOLT, 5/16-18X5/8	
2		Ref	FUEL LINE, 5/16 ID, (See ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE or ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE for Breakdown)	
3	91403254	1	FUEL SENDER COVER	
4	88261014	4	SOCKET BUTTON HD CAPSCREW, 1/4-20X1/2	
5	91403513	Ref	FUEL TANK CAP WITH CHAIN, (non-locking)	
5	91403514	1	LOCKING FUEL TANK CAP, (optional), (includes key)	
5	91404443	1	KEY	
6	91403524	1	FILLER NECK	
7	91403609	1	FUEL LEVEL SENDER, (gaskets included)	
8	88301191	5	ROUND HD MACHINE SCREW, #10-32X3/8	
9	91401581	1	JUMPER WIRE (Prior to SN 0160002036)	
10	88201036	3	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
11	88561004	5	FLAT WASHER, 3/8	
12	88551011	5	LOCKWASHER, 3/8	
13	91401198	NLA	FUEL TANK HOLD DOWN, (no longer available, use 1001150364 for replacement)	
13	1001150364	3	BRACKET, TANK FUEL HOLD	
14	86883106	2	HOSE CLAMP	
15	91403176	1	FUEL TANK, (includes items 16, 17 & 21)	
16	88711283	1	HEX SOCKET PIPE PLUG, 1/2	
17	1001113251	2	ELBOW, 90	
18	88201035	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
19	91416014	1	FUEL TANK STRAP WELDMENT	
20	91403437	1	FUEL GAUGE HARNESS, (jumper wire included) (SN 0160002036 to Present)	
21	91404068	2	PICK-UP TUBE, 6IN	
22	3960616	1	GASKET, FILLER NECK	
23	91511215	1	FUEL TANK STRAP, (not shown) (Prior to SN 0160033655)	
102		Ref	FUEL LINE, (See ENGINE ASSEMBLY, RH VIEW - JOHN DEERE ENGINE or ENGINE ASSEMBLY - PERKINS ENGINE for Breakdown)	
103	1671313	1	FUEL SENDER COVER	
105	1120590	NLA	FUEL CAP, (non-locking), (no longer available, order 1001093641)	
105	1001093641	1	FUEL CAP, (non-locking)	
105	2902446	NLA	FUEL CAP ADAPTER KIT, LOCKING, (no longer available, order 1001102657 or see items 301 thru 304 for service)	
105	1001102657	1	FUEL CAP, LOCKING, (includes items 401 thru 403), (padlock not included)	
107	1001093388	NLA	FUEL LEVEL SENDER (no longer available, use 1001148837 for replacement)	
107	1001148837	1	FUEL LEVEL SENDER, (gaskets included)	
108	88302192	5	ROUND HD MACHINE SCREW, #10-32X3/8	
110	88201036	3	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
111	88561004	3	FLAT WASHER, 3/8	
112	88551011	3	LOCKWASHER, 3/8	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
113	91401198	1	FUEL TANK HOLD DOWN	
115	4400490	1	FUEL TANK	
120	4923452	1	FUEL GAUGE HARNESS	
201	88711283	1	HEX SOCKET PIPE PLUG, 1/2	
202	90030271	2	FITTING, 90	
203	8420231	1	FITTING, HOSE BARB	
204	8430007	1	FITTING, HOSE BARB	
301	0080272	1	FILLER NECK ADAPTER	
302	1120591	NLA	FUEL CAP, LOCKING, (no longer available, order 1001102657)	
302	8342813	1	KEY	
303	3900140	2	SET SCREW, 1/4-20X3/8	
304	14404978	AR	LOCTITE 641	
401	0100093	AR	LOCTITE 30512	
402	1001001422	1	FILLER NECK ADAPTER	
403	1001080707	1	FUEL CAP, LOCKING, (padlock not included)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-13. FUEL TANK AND LINES (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-4-13

NOTE: 1. APPLY LOCTITE® 30512™ (0100093) ON ALL ADAPTER THREADS UP TO GASKET START AT BOTTOM OF THE THREADS; 360 DEGREES. AIR DRY FOR 3 TO 4 MINUTES ON BOTH MATING PARTS.
2. APPLY 1/2 IN. ALL THE WAY AROUND THE FILLER NECK THREADS. APPLY THE ADAPTER TO THE FILLER NECK ON THE TANK.
3. ONCE ASSEMBLED, NO FUEL SHOULD BE ADDED FOR 8 HOURS.

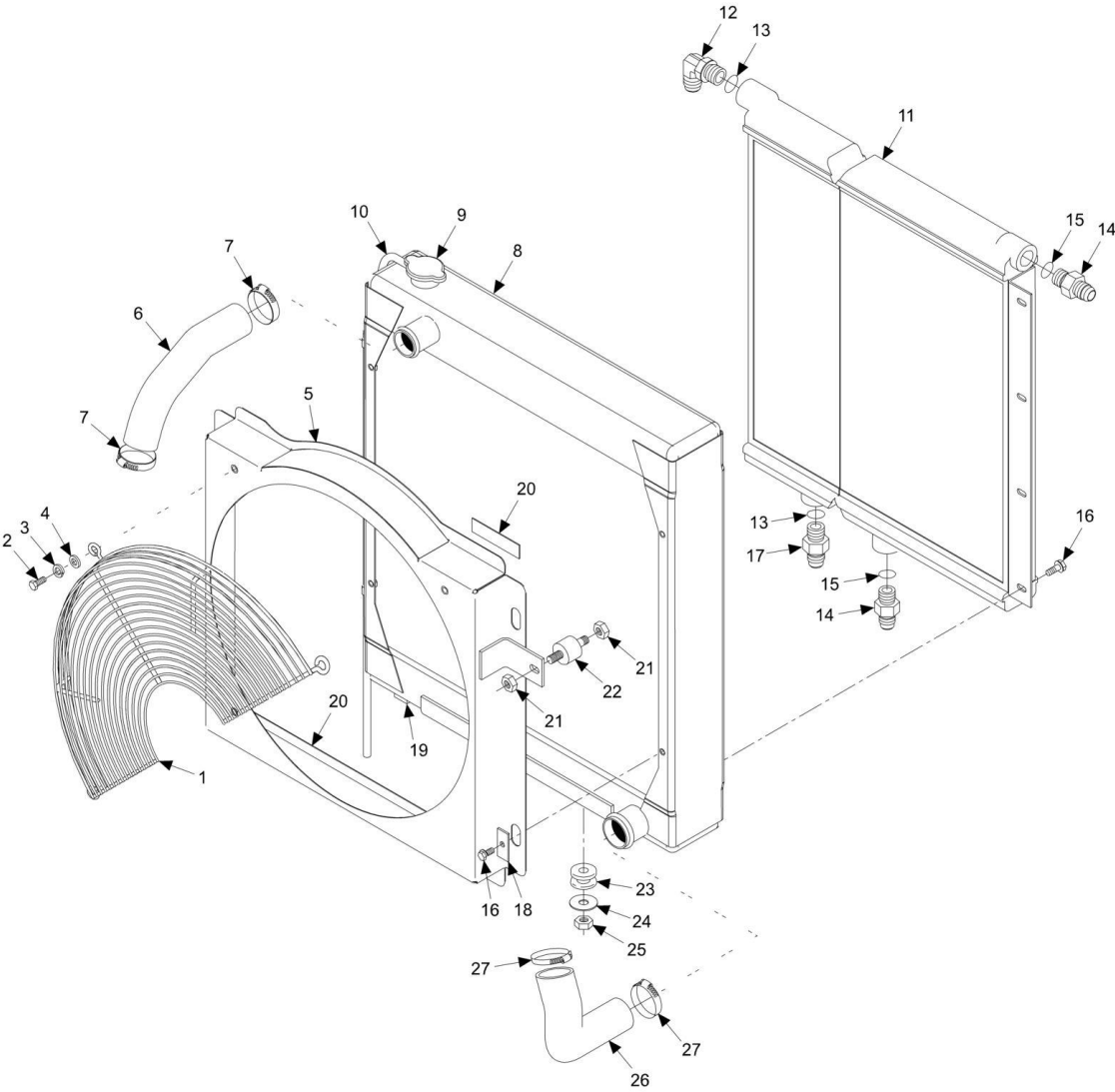
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-13. FUEL TANK AND LINES (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130780	1	FUEL TANK, (includes items 1 thru 11)	C
1	1671313	1	FUEL SENDER COVER, (4 hole), (Prior to SN 0160050904)	
1	1671313	1	FUEL SENDER COVER, (3 hole), (SN 0160050904 to Present)	
2	1001134413	1	FUEL TANK, 40 GALLON CAPACITY	
3	4923452	1	FUEL SENDER HARNESS	
4	88302192	4	ROUND HD SCREW, 10-32X0.44 (not shown) (Prior to SN 0160050904)	
5	1001093388	NLA	FUEL LEVEL SENDER (no longer available, use 1001148837 for replacement)	
5	1001148837	1	FUEL LEVEL SENDER, (gaskets included)	
6	1001130776	2	HOSE BARB ADAPTER	
7	0100093	AR	LOCTITE (SN 0160050904 to Present)	
8	1001148847	3	ADAPTOR (SN 0160050904 to Present)	
9	4811600	3	WASHER, 5mm (SN 0160050904 to Present)	
10	0731003	2	SCREW, 10 X 0.5 (SN 0160050904 to Present)	
11	1001149344	3	NUT (SN 0160050904 to Present)	
115	4711600	3	LOCKWASHER, 3/8	
127	91401198	NLA	FUEL TANK HOLD DOWN (no longer available, use 1001150364 for replacement)	
127	1001150364	3	BRACKET, TANK FUEL HOLD	
139	4751600	3	WASHER, 3/8	
140	0641608	3	HEX HD CAPSCREW, 3/8-16X1	
201	1001093641	1	FUEL CAP, NON-LOCKING	A
	1001102657	1	FUEL CAP, LOCKING, (includes items 301 thru 303), (padlock not included)	
301	0100093	AR	LOCTITE 30512	
302	1001001422	1	FILLER NECK TANK ADAPTER	
303	1001080707	1	LOCKING FUEL CAP	
448		Ref	FUEL LINE HOSE, (See ENGINE ASSEMBLY - CUMMINS for Breakdown)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-14. RADIATOR ASSEMBLY - JOHN DEERE ENGINE (SN 019001 through 0193007, SN 016000008 through 0160000240)



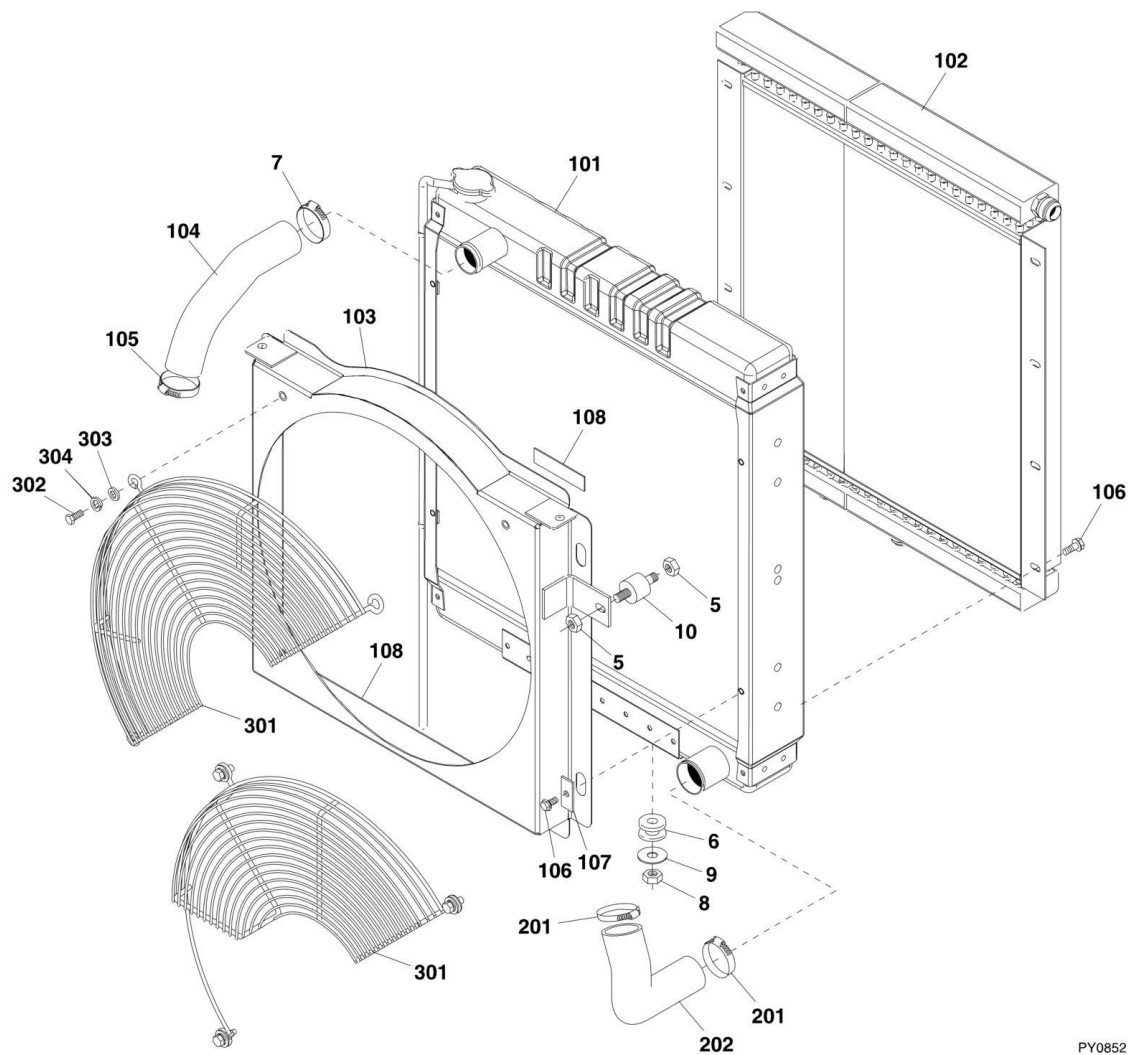
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-14. RADIATOR ASSEMBLY - JOHN DEERE ENGINE (SN 019001 through 0193007, SN 0160000008 through 0160000240)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515039	Ref	RADIATOR ASSY, (not available to order, see items 5 thru 20 for service)	
1	91473108	1	FAN GUARD	
2	88201034	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
3	88551011	3	LOCKWASHER, 3/8	
4	88561003	3	FLAT WASHER, 5/16	
5	91516025	1	FAN SHROUD	
6	91403095	1	UPPER RADIATOR HOSE	
7	85071128	2	HOSE CLAMP	
8	91513149	1	RADIATOR, (includes items 9 & 10)	
9	91404008	1	RADIATOR CAP, 10PSI	
10	Bulk	41 ft	OVERFLOW HOSE	
11	91513150	1	OIL COOLER	
12	2220578	1	ELBOW, 90, (includes item 13)	
13	88591207	2	O-RING	
14	2220377	2	CONNECTOR, (includes item 15)	
15	88591209	2	O-RING	
16	77143003	12	WHIZ-LOCK SCREW, 5/16-18X5/8	
17	2220451	1	CONNECTOR, (includes item 13)	
18	91143348	4	CLAMP BAR	
19	84521056	1	DRAIN COCK	
20	Bulk	54 ft	GASKA-TAPE	
21	77143006	2	WHIZ-LOCKNUT, 5/16-18	
22	91033137	1	SHOCK MOUNT	
23	83683308	2	MOUNTING PAD	
24	90205918	2	HARDENED WASHER, 3/8	
25	88521206	2	HEX LOCKNUT, 3/8-16	
26	91403096	1	LOWER RADIATOR HOSE	
27	86883327	2	HOSE CLAMP	

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FIGURE 4-15. RADIATOR ASSEMBLY - JOHN DEERE ENGINE (SN 0160000246 through 0160040674, Excluding 0160040468 and 0160040672)



PY0852

- NOTE:
- 1. ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
 - 2. USE LOCTITE® 545™ (0100075) ON ALL HYDRAULIC FITTING THREADS.

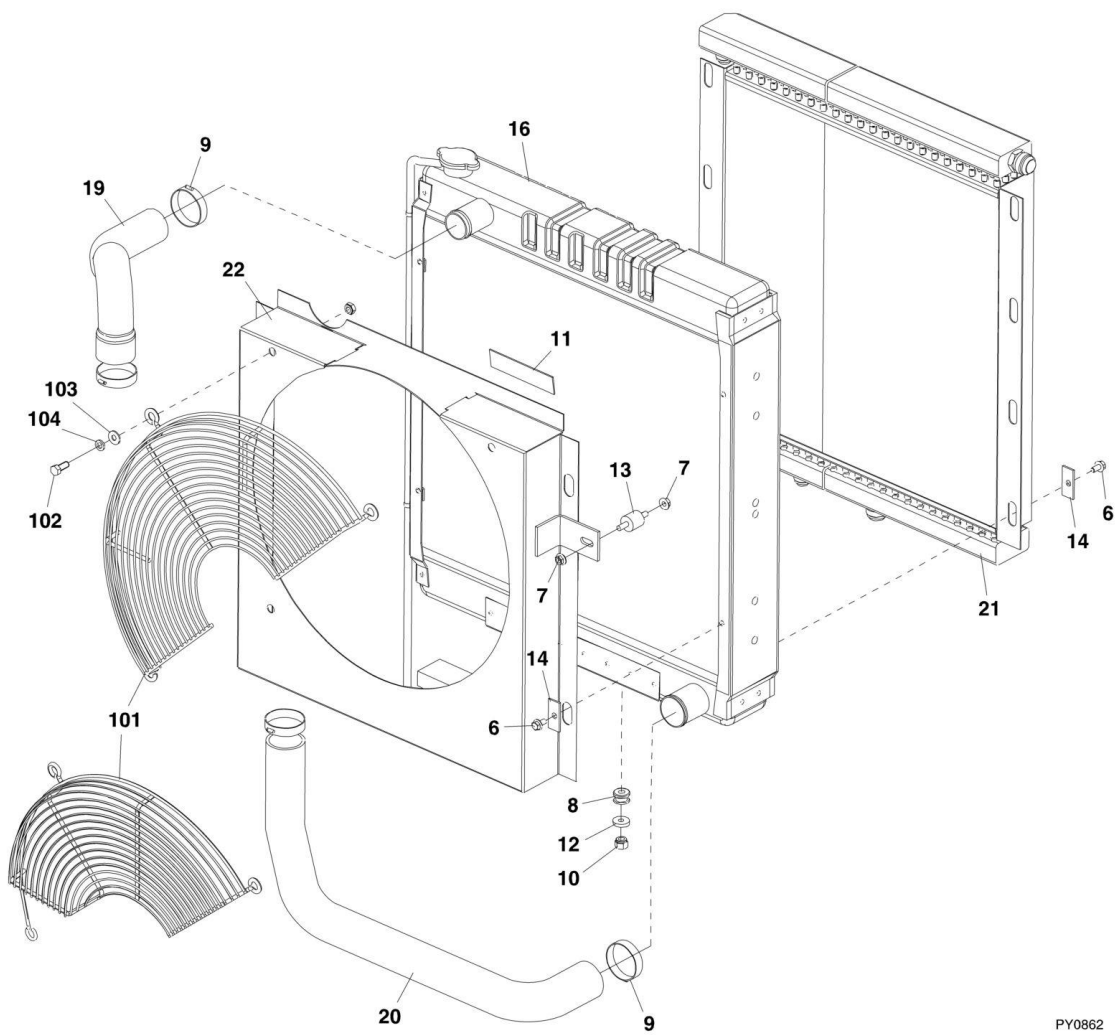
SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-15. RADIATOR ASSEMBLY - JOHN DEERE ENGINE (SN 0160000246 through 0160040674,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275643	Ref	RADIATOR ASSY, (not available to order, see items 1 thru 10 for service)	D
1	91515049	1	RADIATOR ASSY, (includes items 101 thru 110)	E
5	77143006	2	WHIZ-LOCKNUT, 5/16-18	
6	83683308	2	MOUNTING PAD	
7	85071128	1	HOSE CLAMP	
8	88521206	2	HEX LOCKNUT, 3/8-16, (torque to 26-31 lb-ft)	
9	7057141	2	FLAT WASHER, REBOUND	
10	91033137	1	SHOCK MOUNT	
101	91513202	1	RADIATOR (SN 0160000246 through 0160033636)	
101	1001125462	1	RADIATOR (SN 0160033655 through 0160040674, Excluding 0160040468 and 0160040672)	
101	7026442	1	RADIATOR CAP, 10PSI (SN 0160000246 through 0160033636)	
101	91084198	1	RADIATOR CAP, 14PSI (SN 0160033655 through 0160040674, Excluding 0160040468 and 0160040672)	
101	Bulk	41 ft	OVERFLOW HOSE	
101	91514261	1	DRAIN COCK, (not shown)	
102	91513203	1	OIL COOLER	
103	91516025	1	FAN SHROUD	
104	91403095	1	UPPER RADIATOR HOSE	
105	85071128	1	CLAMP	
106	77143003	12	WHIZ-LOCK SCREW, 5/16-18X5/8	
107	91143348	4	CLAMP BAR	
108	90200755	28 ft	GASKA-TAPE	
109	0100011	AR	LOCTITE 242	
110	0100075	AR	LOCTITE 545	
201	85071128	2	HOSE CLAMP	
202	91403096	1	LOWER RADIATOR HOSE	
202	1001102649	Ref	FAN GUARD INSTALLATION, (without A/C), (not available to order, see items 301 thru 304 for service)	A
202	1001102649	Ref	FAN GUARD INSTALLATION, (with A/C), (not available to order, see items 301 thru 304 for service)	A
301	91473108	1	FAN GUARD, (without A/C)	
301	91513215	1	FAN GUARD, (with A/C)	
302	0641607	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
303	4751600	3	WASHER, 3/8	
304	4761600	3	LOCKWASHER, 3/8	

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FIGURE 4-16. RADIATOR ASSEMBLY - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)



NOTE: 1. USE LOCTITE® 242™, ITEM 1, ON ALL BOLT THREADS.

PY0862

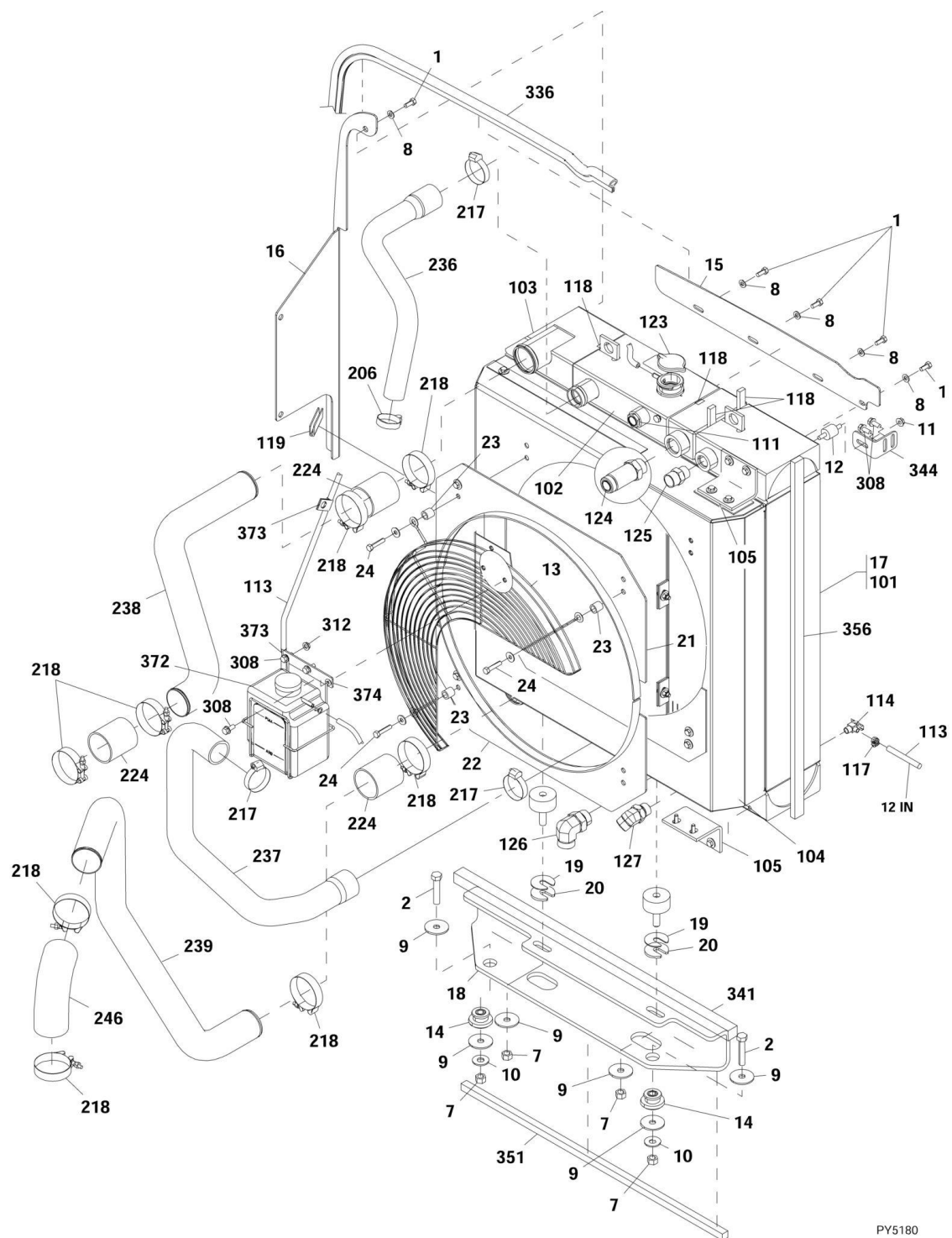
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-16. RADIATOR ASSEMBLY - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001811	Ref	RADIATOR ASSY, (not available to order, see items 1 thru 22 for service)	H
1	0100011	AR	LOCTITE 242	
6	77143003	12	WHIZ-LOCK SCREW, 5/16-18X0.625	
7	77143006	2	WHIZ-LOCKNUT, 5/16-18	
8	83683308	2	MOUNTING PAD	
9	86883327	4	HOSE CLAMP	
10	88521206	2	LOCKNUT, 3/8-16, (torque to 26-31 lb-ft)	
11	90200755	4.5 ft	GASKA-TAPE	
12	7057141	2	FLAT WASHER, REBOUND	
13	91033137	1	SHOCK MOUNT	
14	91143348	12	BAR CLAMP	
16	91513202	1	RADIATOR (SN 0160020943 through 0160033636, Including 0160020803, 0160020823 and 0160020824)	
16	1001125462	1	RADIATOR (SN 0160033655 through 0160040674, Excluding 0160040468 and 0160040672)	
16	7026442	1	RADIATOR CAP, 10PSI (SN 0160020943 through 0160033636, Including 0160020803, 0160020823 and 0160020824)	
16	91084198	1	RADIATOR CAP, 14PSI (SN 0160033655 through 0160040674, Excluding 0160040468 and 0160040672)	
16	Bulk	41 ft	OVERFLOW HOSE	
16	91514261	1	DRAIN COCK, (not shown)	
19	1001001812	1	UPPER RADIATOR HOSE	
20	1001001813	1	LOWER RADIATOR HOSE	
21	1001001822	1	OIL COOLER	
22	1001001826	1	FAN SHROUD	
	1001102649	Ref	FAN GUARD INSTALLATION, (without A/C), (not available to order, see items 101 thru 104 for service)	A
	1001102655	Ref	FAN GUARD INSTALLATION, (with A/C), (not available to order, see items 101 thru 104 for service)	A
101	91473108	1	FAN GUARD, (without A/C)	
101	1001093127	1	FAN GUARD, (with A/C)	
102	0641607	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
103	4751600	3	WASHER, 3/8	
104	4761600	3	LOCKWASHER, 3/8	

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FIGURE 4-17. RADIATOR ASSEMBLY - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5180

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FIGURE 4-17. RADIATOR ASSEMBLY - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

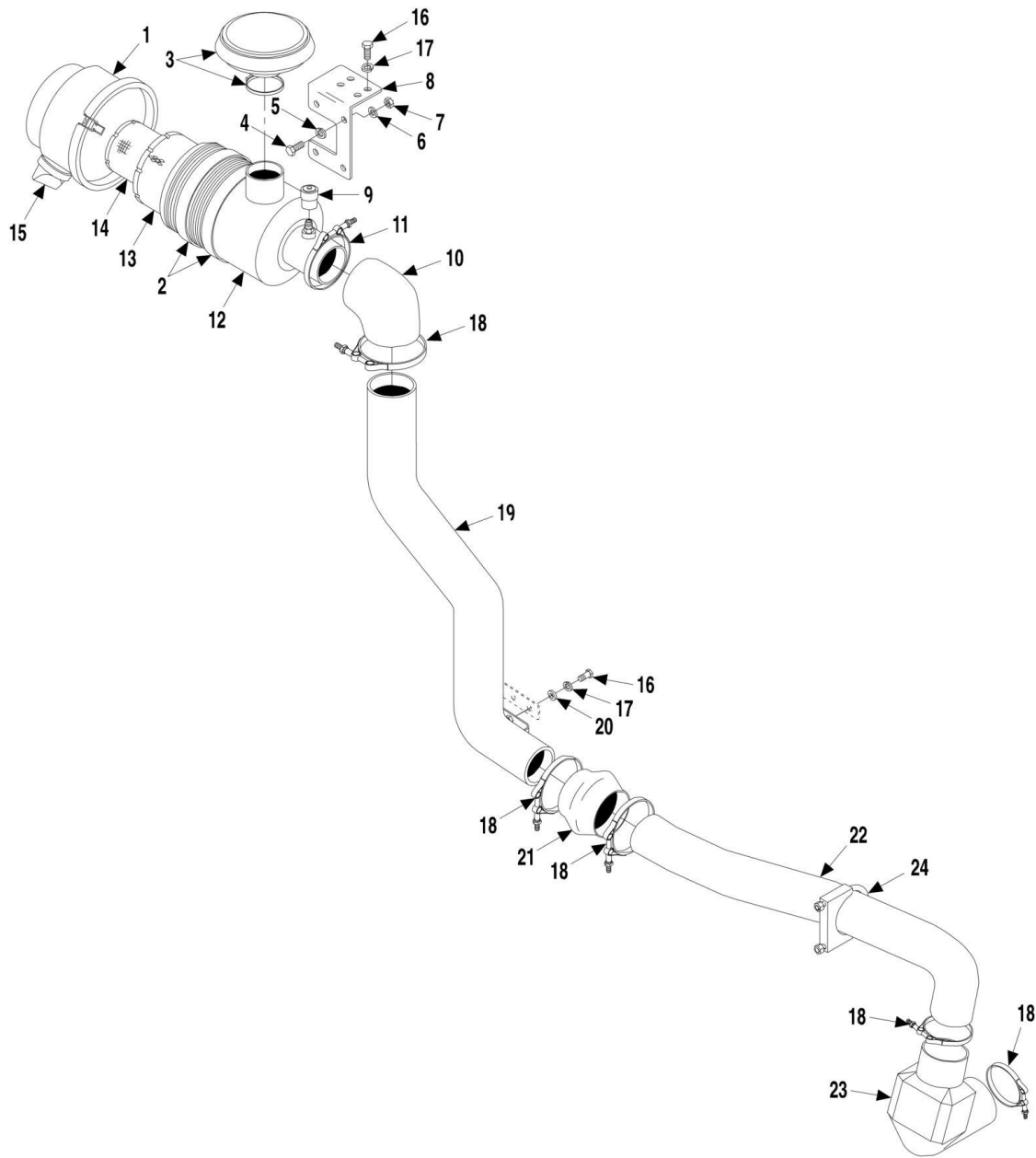
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120777	Ref	RADIATOR ASSY, (not available to order, see items 1 thru 24 for service)	C
1	0641506	5	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
2	0641820	2	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5	
7	3311801	4	HEX NUT, 1/2-13, GR2	
8	4711500	5	WASHER, 5/16	
9	4740274	6	SPECIAL WASHER	
10	4751800	2	WASHER, 1/2	
11	77143006	1	WHIZ-LOK NUT, 5/16-18	
12	91033137	1	SHOCK MOUNT	
13	1001114560	1	FAN GUARD GRILL	
14	1001114803	2	ISOLATOR MOUNT	
15	1001118045	1	TOP AIR DAM PLATE	
16	1001118046	1	BOTTOM AIR DAM PLATE	
17	1001118071	NLA	RADIATOR ASSY, (no longer available, order 1001194015 for replacement or items 101 thru 127 for service) (Prior to SN 0160070432)	F
17	1001194145	1	RADIATOR (SN 0160070432 to Present)	
18	1001118217	1	RADIATOR MOUNT BRACKET	
19	1001120376	2	SHIM, 14 GA	
20	1001120377	2	SHIM, 3/16	
21	1001126835	1	FAN SHROUD TOP PANEL	
22	1001126836	1	FAN SHROUD BOTTOM PANEL	
23	1001126860	3	FAN SPACER SLEEVE	
24	0641512	3	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
101	70023331	1	HYDRAULIC/TRANSMISSION OIL COOLER	
102	70023332	1	RADIATOR	
103	70023341	1	CHARGE AIR COOLER	
104	70023342	1	SHROUD	
105	70023334	2	MOUNTING ANGLE BRACKET	
111	70023335	1	SIGHT GAUGE	
113	70023337	76 in	DRAIN HOSE	
114	70023338	1	PETCOCK	
117	70023796	1	CLAMP	
118	70023339	AR	FOAM RUBBER	
119	70023340	AR	LOCKING RUBBER SEAL	
123	70023336	1	RADIATOR CAP, (15psi)	
124	2170116	1	CONNECTOR, (includes o-ring)	
125	2111212	1	CONNECTOR, (includes o-ring)	
126	2131616	1	ELBOW, 90, (includes o-ring)	
127	2111616	1	ELBOW, 45, (includes o-ring)	
206	1320012	1	CLAMP, 2.5 DIA	
217	8405104	3	GEAR CLAMP, 2.25 MAX DIA	
218	8405212	8	T-BOLT CLAMP	
224	1001099251	3	HOSE	
236	1001119891	1	UPPER RADIATOR HOSE	
237	1001119892	1	LOWER RADIATOR HOSE	
238	1001119893	1	INLET PIPE	
239	1001119894	1	OUTLET PIPE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
246	1001125246	1	ELBOW	
308	0791506	5	WHIZ-LOCK SCREW, 5/16-18X3/4	
312	3311508	1	HEX NUT, 5/16-18	
336	1001116122	68 in	BULB SEAL	
341	1001118092	1	FOAM GASKET SEAL	
344	1001118138	1	ISOLATOR MOUNT SUPPORT	
351	1001120370	1	FOAM GASKET SEAL	
356	1001121717	1	FOAM GASKET SEAL	
372	4400483	1	COOLANT RETURN RESERVOIR	
373	86621230	2	SUPPORT CLAMP	
374	1001121676	1	COOLANT BOTTLE PLATE	

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FIGURE 4-18. AIR CLEANER AND INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



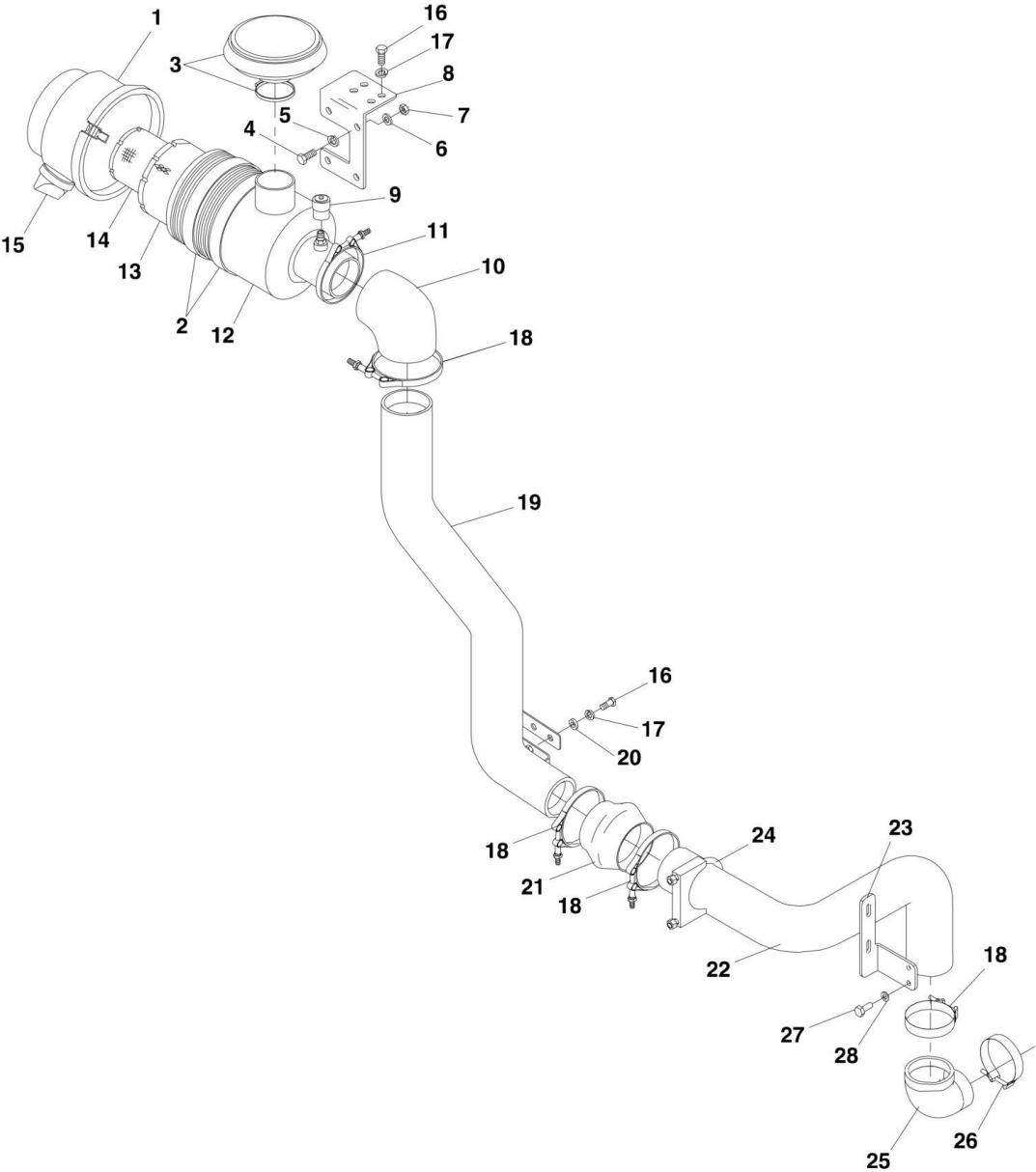
SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-18. AIR CLEANER AND INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515041	Ref	AIR CLEANER ASSY, (not available to order, see items 1 thru 15 for service)	B
1	91364023	1	COVER ASSY	
2	10268516	2	MOUNTING BAND	
3	8273257	1	AIR INTAKE HOOD, (includes clamp)	
4	88201021	4	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
5	88551010	4	LOCKWASHER, 5/16	
6	88561108	4	FLAT WASHER, 5/16	
7	77143006	4	WHIZ-LOCKNUT, 5/16-18	
8	91511144	1	MOUNTING BRACKET	
9	77383154	1	SERVICE INDICATOR	
10	91153007	1	ELBOW, 90	
11	77383790	1	BAND CLAMP	
12	8273029	1	AIR CLEANER, (includes items 1, 13, 14 & 15)	
13	1101312	1	ELEMENT, (outer)	
14	1101313	1	ELEMENT, (inner)	
15	80373094	1	VACUATOR	
16	88201033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
17	88551011	4	LOCKWASHER, 3/8	
18	91163129	5	BAND CLAMP	
19	91513205	1	AIR INTAKE TUBE	
20	88561004	2	FLAT WASHER, 3/8	
21	91403244	1	STRAIGHT HUMP	
22	91473103	1	AIR INTAKE TUBE	
23	91083126	1	AIR INTAKE ELBOW	
24	24921332	1	MUFFLER CLAMP	

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FIGURE 4-19. AIR CLEANER AND INSTALLATION - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)



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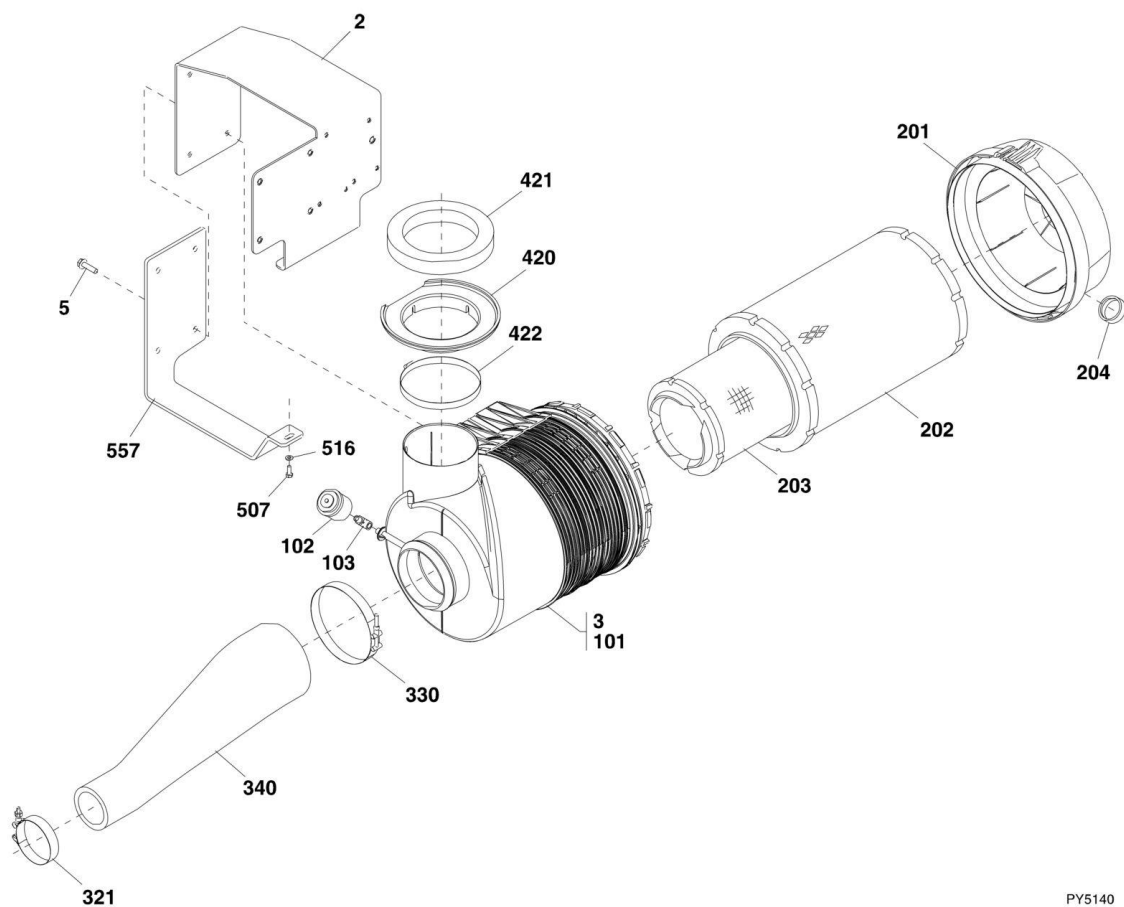
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-19. AIR CLEANER AND INSTALLATION - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515041	Ref	AIR CLEANER ASSY, (not available to order, see items 1 thru 15 for service)	B
1	91364023	1	COVER ASSY	
2	10268516	2	MOUNTING BAND	
3	8273257	1	AIR INTAKE HOOD, (includes clamp)	
4	88201021	4	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
5	88551010	4	LOCKWASHER, 5/16	
6	88561108	4	FLAT WASHER, 5/16	
7	77143006	4	WHIZ-LOCKNUT, 5/16-18	
8	91511144	1	MOUNTING BAND	
9	77383154	1	SERVICE INDICATOR	
10	91153007	1	ELBOW, 90	
11	77383790	1	BAND CLAMP	
12	8273029	1	AIR CLEANER, (includes items 1, 13, 14 & 15)	
13	1101312	1	ELEMENT, (outer)	
14	1101313	1	ELEMENT, (inner)	
15	80373094	1	VACUATOR	
16	88201033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
17	88551011	4	LOCKWASHER, 3/8	
18	91163129	4	BAND CLAMP	
19	91513205	1	AIR INTAKE TUBE	
20	88561004	2	FLAT WASHER, 3/8	
21	91403244	1	STRAIGHT HUMP	
22	1001001804	1	TURBO INTAKE TUBE	
23	1001001805	1	TURBO INTAKE MOUNTING BRACKET	
24	24921332	1	MUFFLER CLAMP	
25	1001001851	1	REDUCING ELBOW, 90	
26	1001001853	1	BAND CLAMP	
27	0761012	2	HEX HD CAPSCREW, M10X25	
28	4832000	2	SPRING LOCKWASHER, M10	

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FIGURE 4-20. AIR CLEANER AND INSTALLATION - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5140

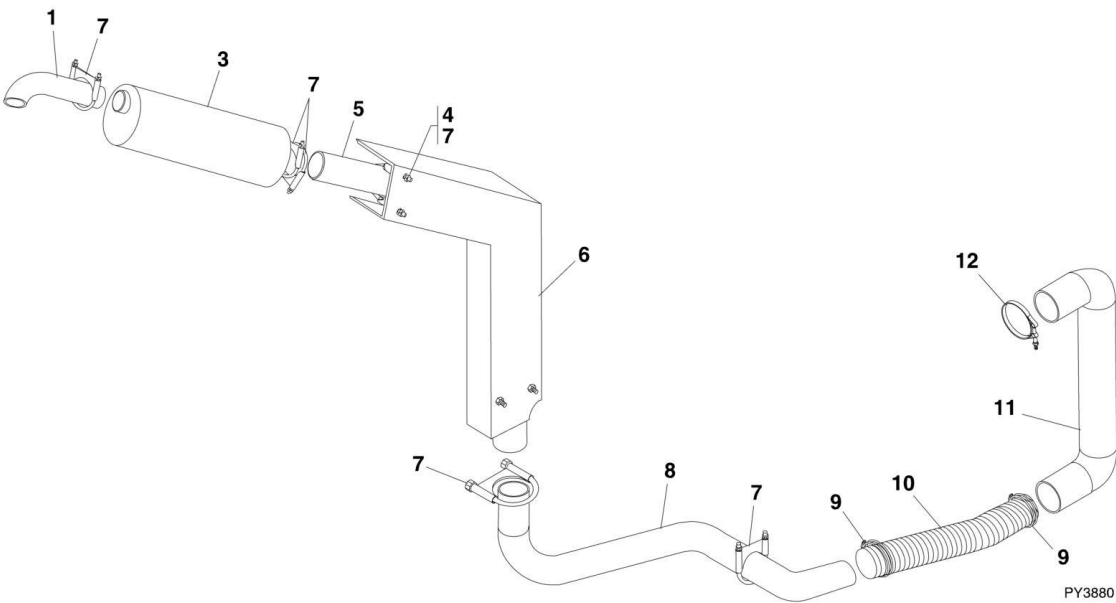
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**FIGURE 4-20. AIR CLEANER AND INSTALLATION - CUMMINS ENGINE (SN 0160040675 to Present,
Including 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110079	1	AIR CLEANER INSTALLATION, (not available to order, see items 2 thru 5 for service)	D
2	1001110055	1	BRACKET	
3	1001116505	Ref	AIR CLEANER INSTALLATION, (not available to order, see items 101 thru 103 for service)	A
5	5200814	4	RIPP BOLT, 8X30mm	
101	1001109038	1	AIR CLEANER, 11IN, (includes items 201 thru 204)	D
102	91563129	1	RESTRICTION INDICATOR	
103	86983648	1	ELBOW, 90	
201	70023195	1	COVER ASSY	
202	7026573	1	PRIMARY ELEMENT	
203	7026572	1	SAFETY ELEMENT	
204	8273291	1	VACUATOR VALVE	
321	90028631	1	HEAVY DUTY BAND CLAMP	
330	1001116418	1	BAND CLAMP	
340	1001119967	1	AIR INTAKE PIPE	
420	1001111903	1	AIR FILTER INTAKE ADAPTER	
421	1001111904	1	FOAM SEAL	
422	91563134	1	BAND CLAMP	
507	0760608	1	HEX HD CAPSCREW, 6X16mm, GR8.8	
516	4811700	1	WASHER, 6mm	
557	1001122220	1	AIR FILTER SUPPORT	

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FIGURE 4-21. EXHAUST INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



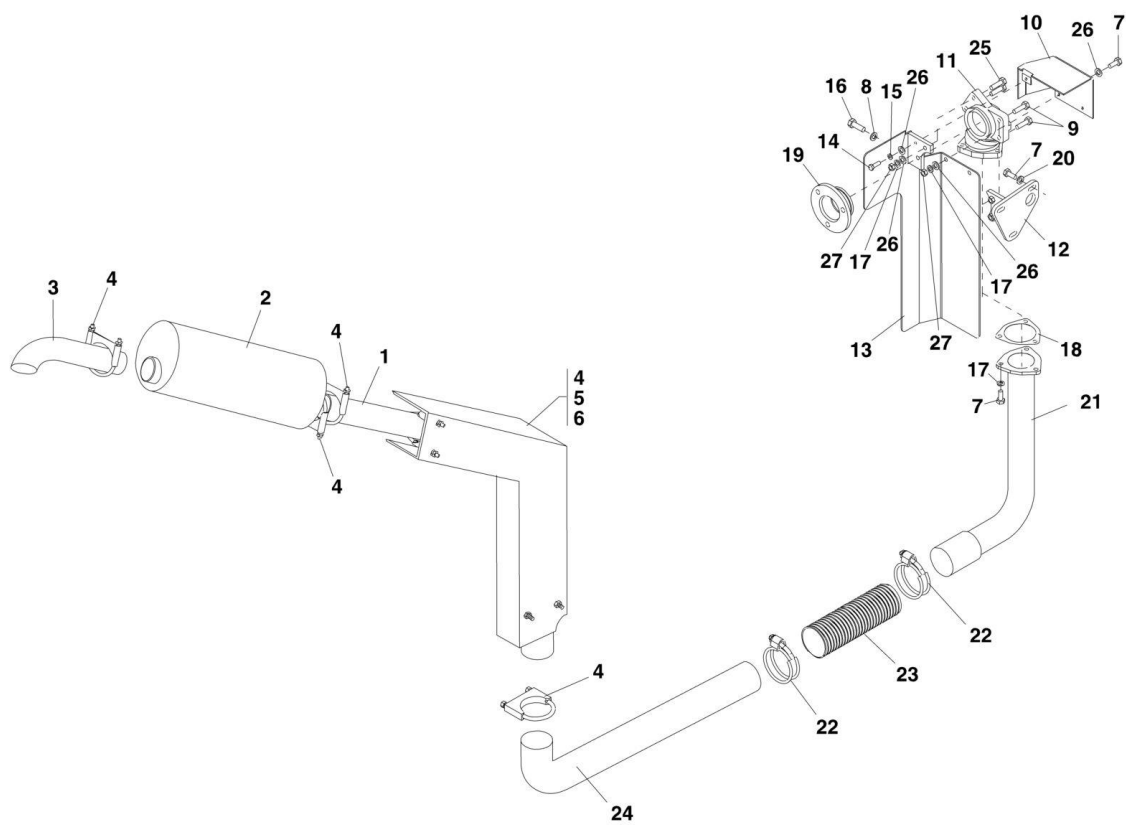
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FIGURE 4-21. EXHAUST INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91403489	1	TAILPIPE	
3	91163035	1	MUFFLER	
4	4751600	4	FLAT WASHER, 3/8	
5	91473178	1	MUFFLER TUBE	
6	91476045	1	HEAT SHIELD	
7	24921332	7	MUFFLER CLAMP	
8	91473036	1	MUFFLER TUBE	
9	91403601	2	CLAMP PIPE	
10	91473119	1	FLEX TUBE	
11	91473117	1	EXHAUST TUBE	
12	91403216	1	CLAMP	

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FIGURE 4-22. EXHAUST INSTALLATION - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)



PY0100

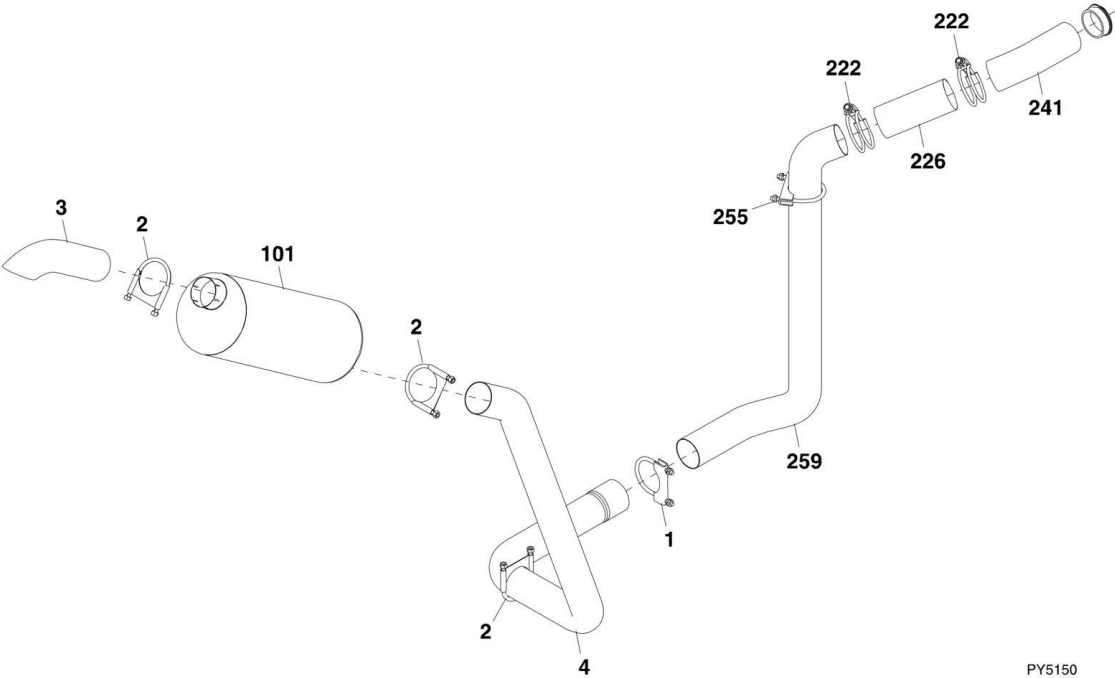
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FIGURE 4-22. EXHAUST INSTALLATION - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91473178	1	MUFFLER TUBE	
2	91163035	1	MUFFLER	
3	91403489	1	TAIL PIPE	
4	24921332	6	MUFFLER CLAMP	
5	91476045	1	HEAT SHIELD	
6	88561004	4	FLAT WASHER, 3/8	
7	0761012	8	HEX HD CAPSCREW, 10X25	
8	4832100	2	SPRING LOCKWASHER, M12	
9	0761015	2	HEX HD CAPSCREW, M10X35	
10	1001001841	1	EXHAUST HEAT SHIELD	
11	1001001820	1	EXHAUST OUTLET ELBOW	
12	1001001828	1	TURBO MOUNTING BRACKET	
13	1001001829	1	EXHAUST HEAT SHIELD	
14	0760812	1	HEX HD CAPSCREW, M8X25	
15	4831900	1	SPRING LOCKWASHER, M8	
16	0761215	2	HEX HD CAPSCREW, M12X35	
17	4832000	7	SPRING LOCKWASHER, M10	
18	1001001831	1	EXHAUST JOINT	
19	1001001819	1	TURBO EXHAUST OUTLET ADAPTER	
20	4812000	3	FLAT WASHER, 10mm	
21	1001001814	1	UPPER EXHAUST WITH FLANGE	
22	91403601	2	PIPE CLAMP	
23	91473119	1	FLEX TUBE	
24	1001001827	1	LOWER EXHAUST TUBE	
25	0761016	2	HEX HD CAPSCREW, M10X40	
26	4711600	7	FLAT WASHER, 3/8	
27	8305038	4	HEX NUT, M10X1.5	

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FIGURE 4-23. EXHAUST INSTALLATION - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5150

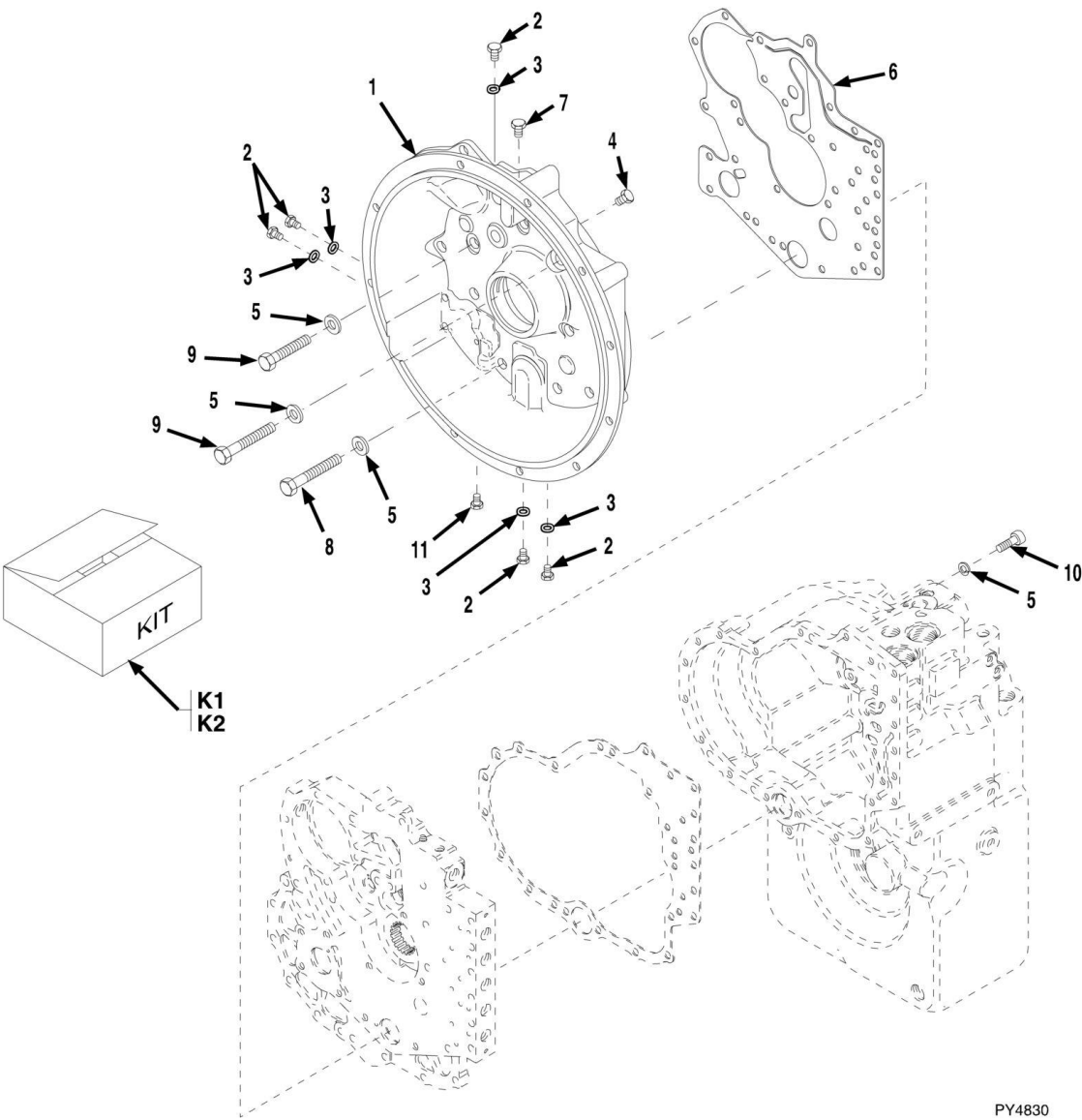
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-23. EXHAUST INSTALLATION - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119731	Ref	EXHAUST INSTALLATION, (not available to order, see items 1 thru 4 for service)	A
1	8275247	1	MUFFLER CLAMP, 3IN	
2	24921332	3	EXHAUST CLAMP, 3IN	
3	91403489	1	TAIL PIPE TUBE	
4	1001117301	1	EXHAUST PIPE	
101	91163035	1	MUFFLER, 3IN	
222	91403601	2	PIPE CLAMP	
226	1001100189	1	FLEX TUBE	
241	1001119994	1	EXHAUST PIPE, FLANGED	
255	8275247	1	MUFFLER CLAMP, 3IN	
259	1001126892	1	EXHAUST PIPE	

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FIGURE 4-24. DANA TRANSMISSION - CONVERTER HOUSING GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PY4830

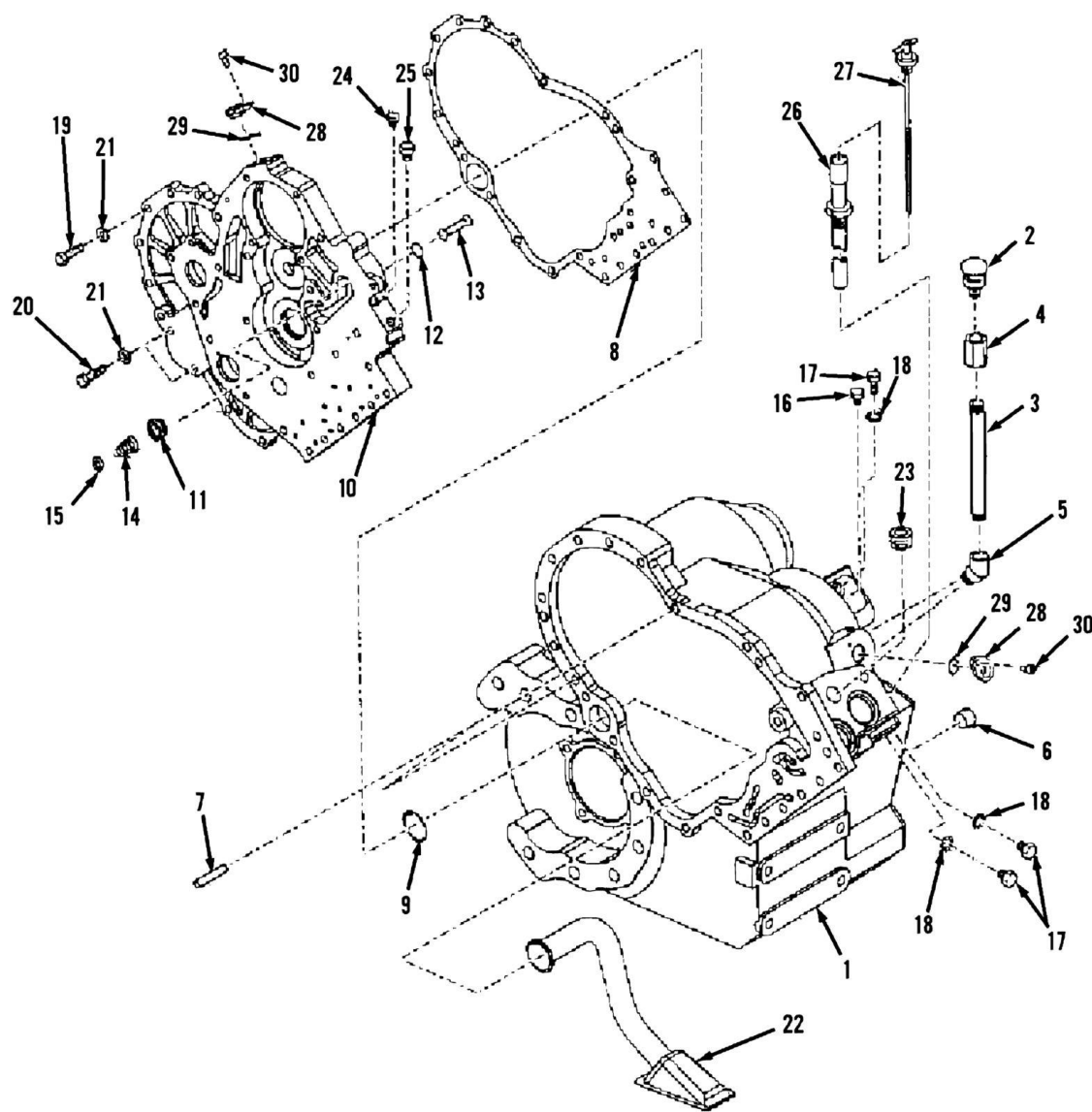
SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-24. DANA TRANSMISSION - CONVERTER HOUSING GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513141	1	FOUR SPEED TRANSMISSION, (includes all items on DANA TRANSMISSION - CONVERTER HOUSING GROUP thru DANA TRANSMISSION - DROP BOX GROUP) (SN 0193001 through 0160011036)	
	91513284	1	FOUR SPEED TRANSMISSION, (includes all items on DANA TRANSMISSION - CONVERTER HOUSING GROUP thru DANA TRANSMISSION - DROP BOX GROUP) (SN 0160011061 to Present)	
1	91474186	1	CONVERTER HOUSING	
2	8032526	5	PLUG, (includes item 3)	
3	91474188	5	O-RING	
4	91474189	1	PLUG	
5	91474190	23	LOCKWASHER	
6	91474191	1	GASKET	
7	91474192	1	PLUG	
8	91474193	6	SCREW	
9	91474194	16	SCREW	
10	91474195	1	SCREW	
11	8035092	1	PLUG	
K1	7028110	1	GASKET AND SEAL KIT, (contains all gaskets and seals for an entire transmission with the exception of the 3-shaft Drop Box)	
K2		Ref	3-SHAFT DROP BOX GASKET AND SEAL KIT, (See DANA TRANSMISSION - DROP BOX GROUP for Breakdown)	

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FIGURE 4-25. DANA TRANSMISSION - CASE AND PLATE GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)



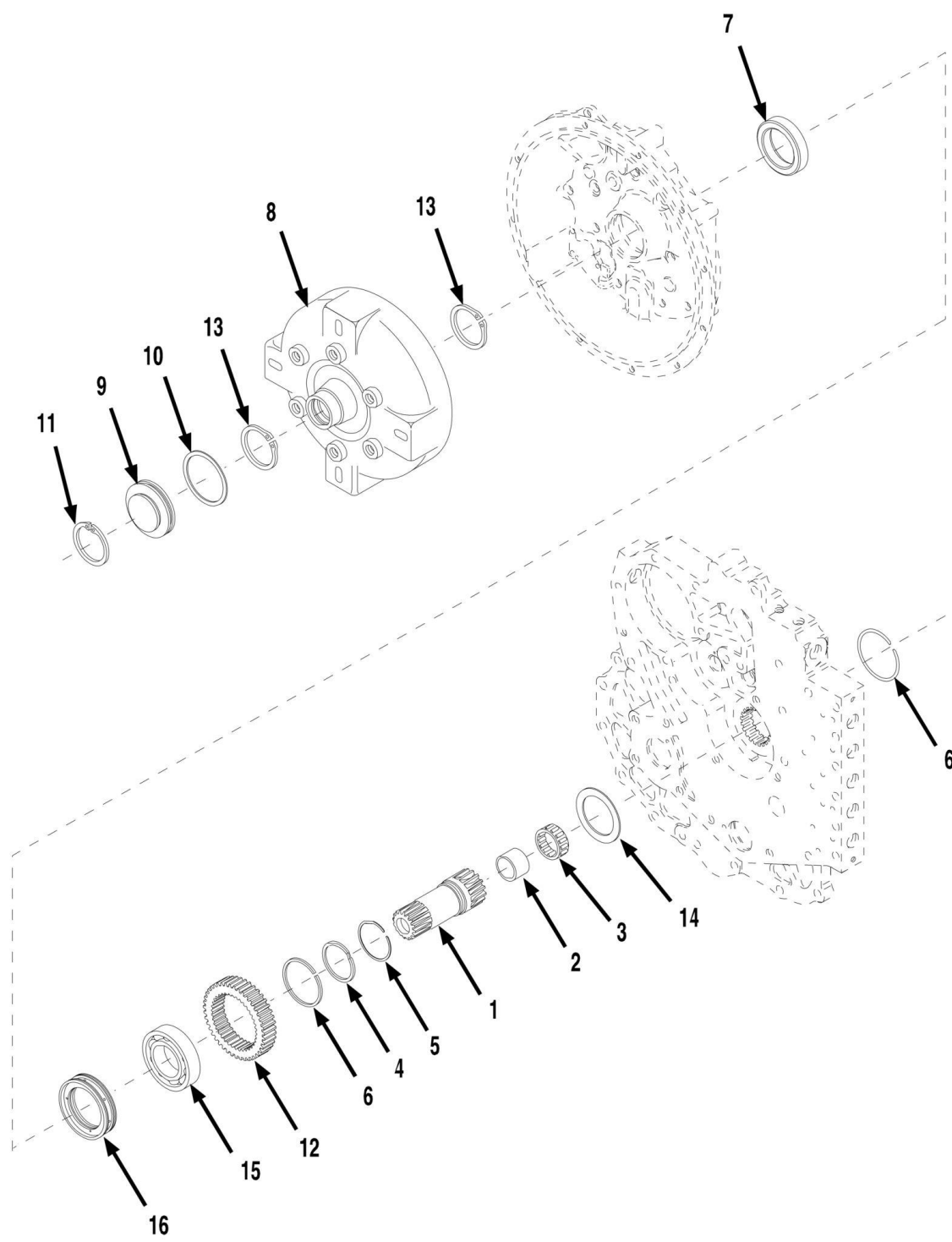
SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-25. DANA TRANSMISSION - CASE AND PLATE GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70020402	1	TRANSMISSION CASE	
2	8032509	1	AIR BREATHER	
3	91474197	1	PIPE NIPPLE	
4	91474198	1	PIPE COUPLING	
5	91474199	1	FITTING	
6	8032528	2	MAGNETIC DRAIN PLUG	
7	91474200	2	PIN	
8	91474201	1	GASKET	
9	10837074	1	SEAL RING	
10	91474203	1	PLATE SPACER (SN 0193001 through 0160011036)	
10	7029822	1	PLATE SPACER (SN 0160011061 to Present)	
11	91474204	1	SAFETY VALVE PLATE	
12	91474205	1	SNAP RING	
13	91474206	1	POPPET	
14	77104056	1	SPRING	
15	91474207	1	WASHER	
16	91474189	1	PLUG	
17	8032526	3	PLUG, (includes item 18)	
18	91474188	3	O-RING	
19	91474208	7	SCREW	
20	91474209	2	SCREW	
21	91474190	9	LOCKWASHER	
22	91474210	1	TUBE AND SCREEN ASSY	
23	91474211	1	FILLER PLUG	
24	91474189	1	PLUG	
25	91474192	1	PLUG	
26	90204823	1	DIPSTICK TUBE ASSY	
27	91474212	1	DIPSTICK	
28	91474213	2	PLUG	
29	91474214	2	O-RING	
30	8034940	2	SCREW	

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**FIGURE 4-26. DANA TRANSMISSION - TORQUE CONVERTER GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**



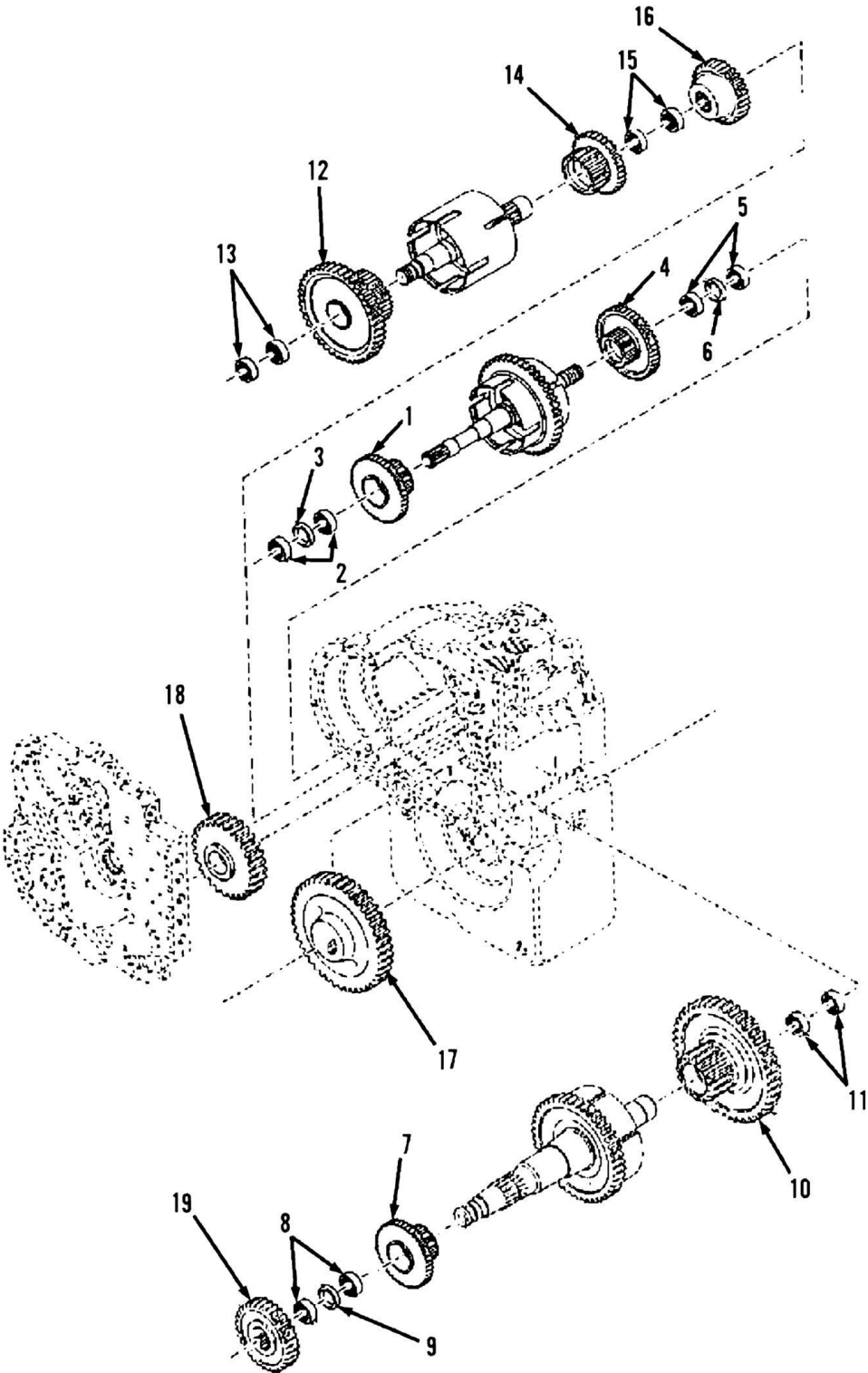
SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-26. DANA TRANSMISSION - TORQUE CONVERTER GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474216	1	STATOR SUPPORT ASSY, (includes items 2 & 3)	
2	91474217	1	BUSHING	
3	91474218	1	BEARING	
4	91474219	1	RING	
5	91474220	1	EXPANDER	
6	91474221	2	SNAP RING	
7	10837072	1	OIL SEAL	
8	91474385	1	TORQUE CONVERTER ASSEMBLY	
9	90204781	1	PLUG	
10	77104039	1	O-RING	
11	77104041	1	SNAP RING	
12	91474224	1	GEAR	
13	8034968	2	SNAP RING	
14	91474226	1	WASHER	
15	10868235	1	BEARING	
16	91474228	1	RING	

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FIGURE 4-27. DANA TRANSMISSION - GEAR GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



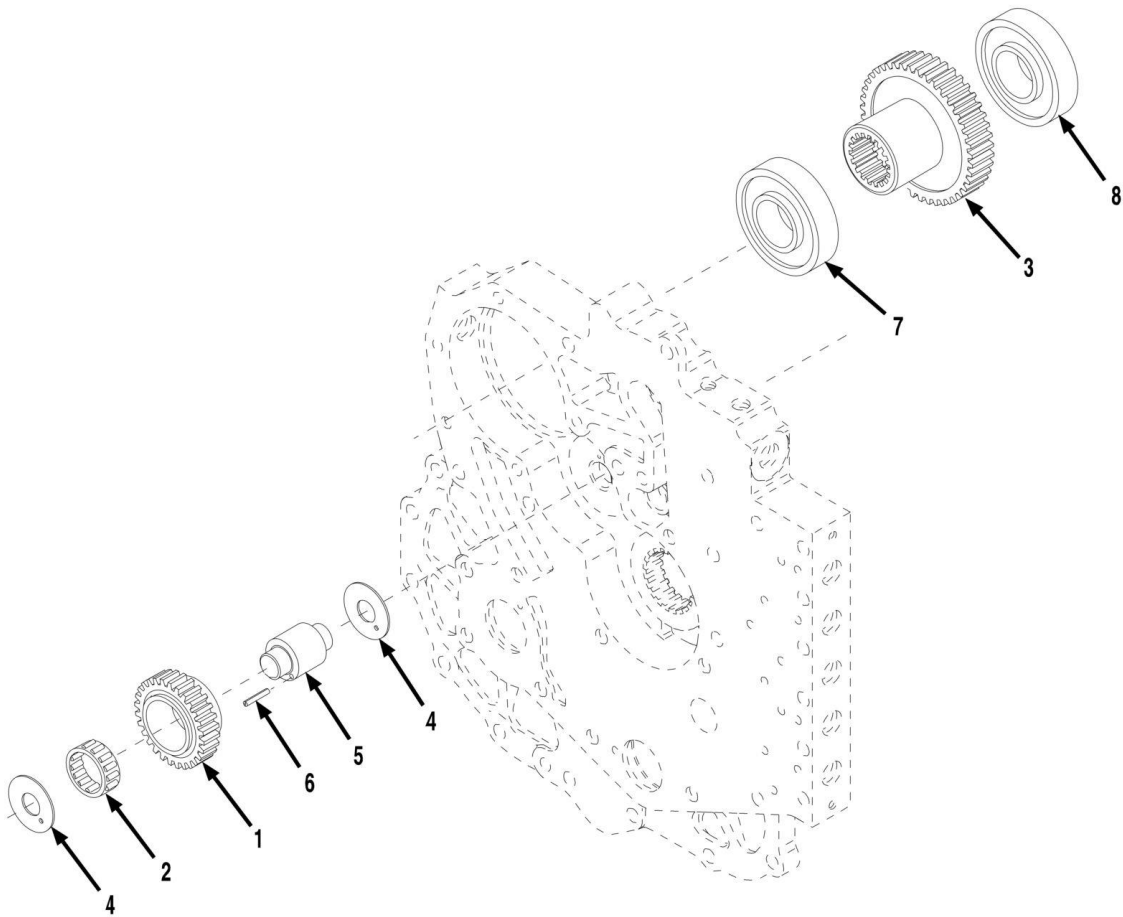
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-27. DANA TRANSMISSION - GEAR GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7028060	1	GEAR AND BEARING ASSY, (includes items 2 & 3)	
2	91474230	2	BEARING	
3	91474231	1	SPACER	
4	91474232	1	GEAR AND BEARING ASSY, (includes items 5 & 6)	
5	91474230	2	BEARING	
6	91474231	1	SPACER	
7	91474391	1	GEAR AND BEARING ASSY, (includes items 8 & 9)	
8	91474387	2	BEARING	
9	91474388	1	SPACER	
10	91474389	1	THIRD CLUTCH GEAR AND BEARING ASSY, (includes item 11)	
11	91474236	2	BEARING	
12	91474390	1	FIRST CLUTCH GEAR AND BEARING, (includes item 13)	
13	91474230	2	BEARING	
14	91474239	1	SECOND CLUTCH GEAR AND BEARING, (includes item 15)	
15	91474230	2	BEARING	
16	91474393	1	THIRD DRIVEN GEAR	
17	91474394	1	OUTPUT SHAFT GEAR	
18	91474395	1	REVERSE IDLER GEAR	
19	91474396	1	FIRST DRIVEN GEAR	

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FIGURE 4-28. DANA TRANSMISSION - PUMP DRIVE GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



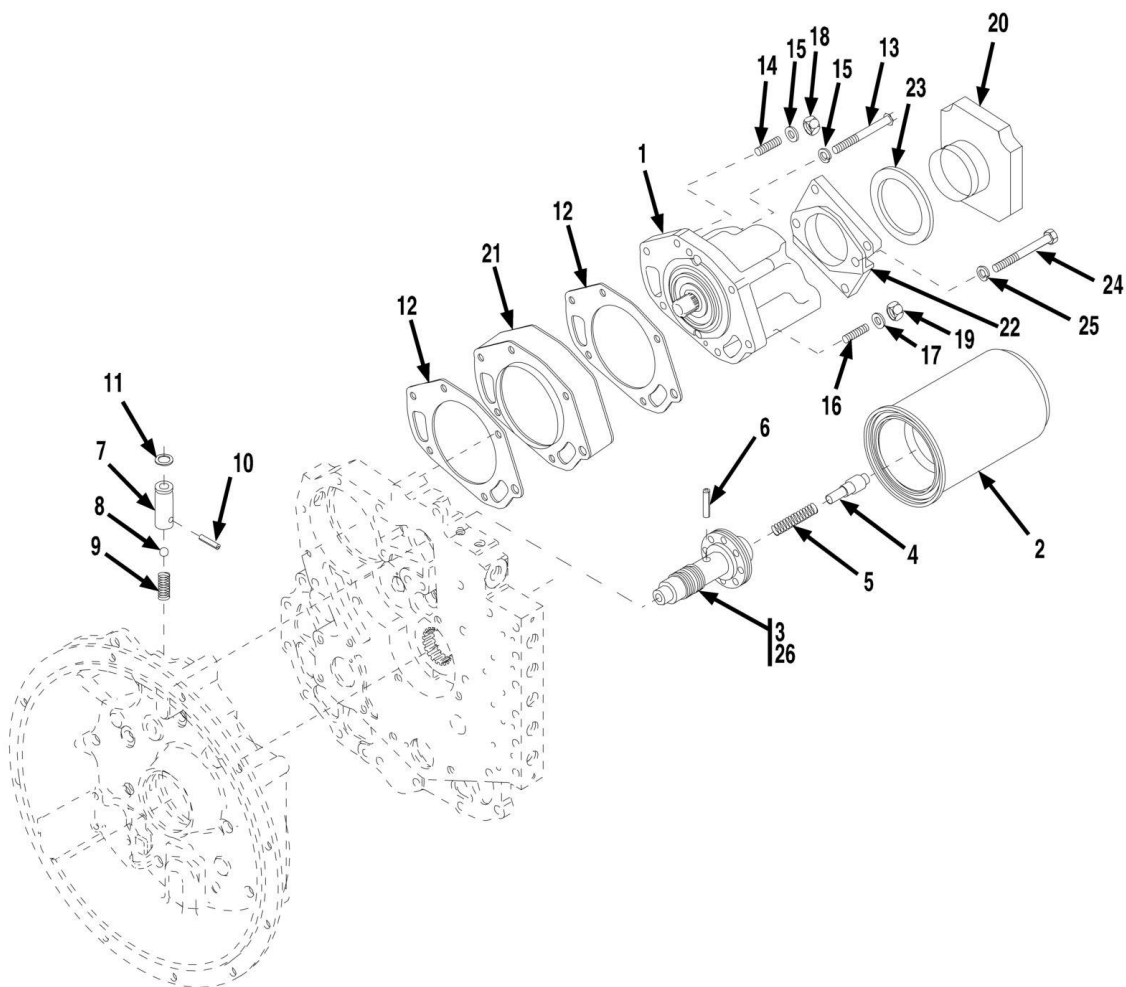
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-28. DANA TRANSMISSION - PUMP DRIVE GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474241	1	PUMP DRIVE IDLER GEAR	
2	91474242	1	BEARING	
3	91474243	1	GEAR	
4	10868243	2	THRUST WASHER	
5	91474245	1	PUMP DRIVE SHAFT AND PIN ASSY, (includes item 6)	
6	10868248	1	PIN	
7	91474247	1	BEARING	
8	91474248	1	BEARING	

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FIGURE 4-29. DANA TRANSMISSION - CHARGING PUMP GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)



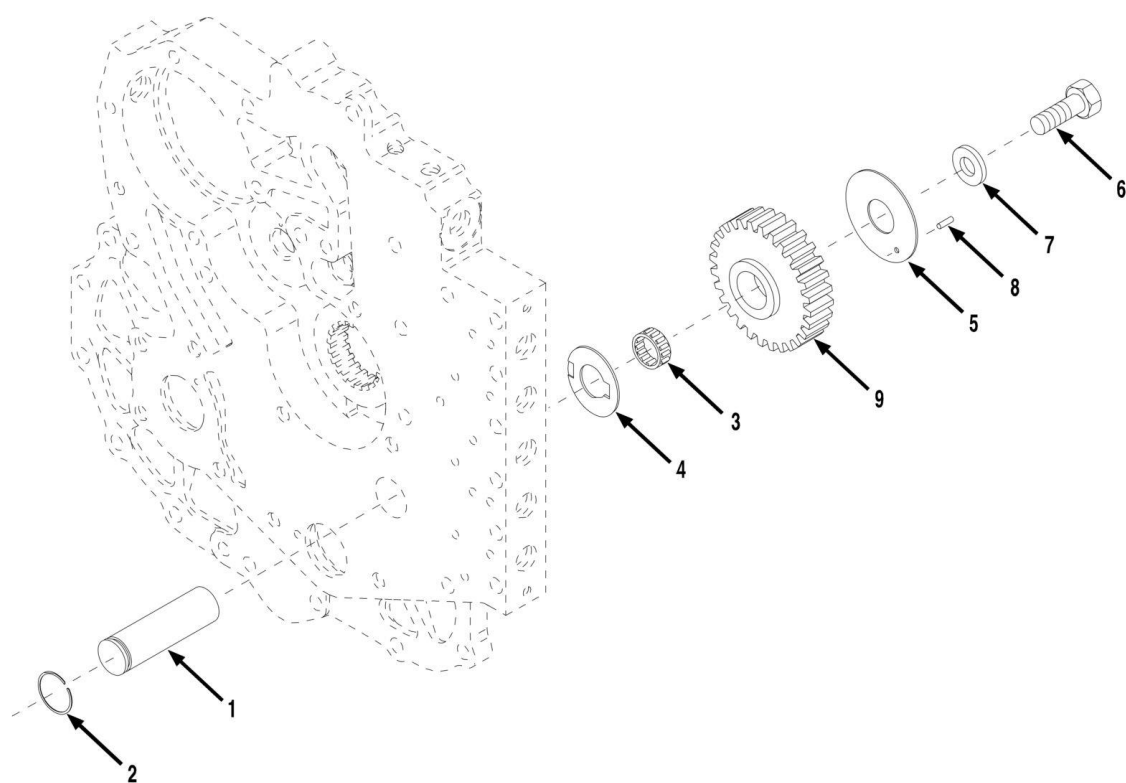
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**FIGURE 4-29. DANA TRANSMISSION - CHARGING PUMP GROUP (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70020407	1	CHARGING PUMP ASSY	
1	70021830	1	O-RING, (located between two halves of charge pump)	
2	91474250	1	FILTER ASSY	
3	91474251	1	REGULATOR VALVE SLEEVE	
4	91474252	1	REGULATOR VALVE PISTON	
5	91474253	1	REGULATOR VALVE SPRING	
6	91474254	1	PIN	
7	91474255	1	BALL CHECK VALVE, (includes items 8 thru 11)	
8	91474256	1	BALL	
9	91474257	1	CHECK VALVE SPRING	
10	91474258	1	CHECK VALVE PIN	
11	91474259	1	O-RING	
12	10868254	2	CHARGING PUMP GASKET	
13	7028063	4	SCREW	
14	91474262	1	STUD	
15	91474263	5	LOCKWASHER	
16	91474264	1	STUD	
17	91474265	1	LOCKWASHER	
18	91474266	1	NUT	
19	91474274	1	NUT	
20	91474267	1	ADAPTOR	
21	91474268	1	ADAPTOR	
22	91474269	1	PLATE	
23	91474270	1	O-RING	
24	91474271	2	SCREW	
25	91474272	2	LOCKWASHER	
26	91474273	1	REGULATOR VALVE ASSY, (includes items 3 thru 6)	

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FIGURE 4-30. DANA TRANSMISSION - REVERSE IDLER GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



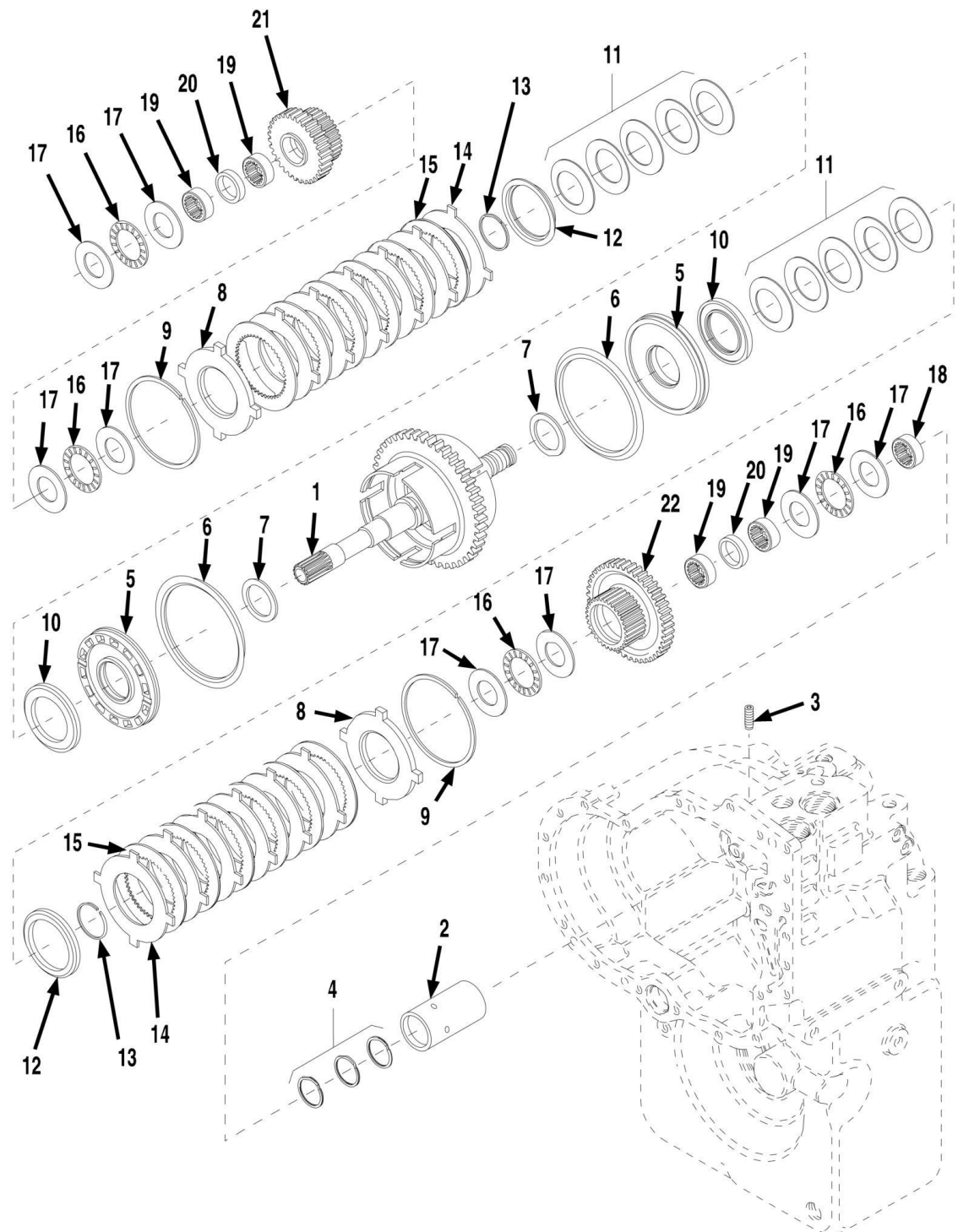
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-30. DANA TRANSMISSION - REVERSE IDLER GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474275	1	IDLER AND PILOT SHAFT	
2	91474276	1	SNAP RING	
3	91474277	1	BEARING	
4	91474278	1	THRUST WASHER	
5	91474279	1	END PLATE	
6	91474280	1	CAPSCREW	
7	91474281	1	WASHER	
8	91474282	1	ROLL PIN	
9		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	

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FIGURE 4-31. DANATRANSMISSION - FORWARD AND REVERSE SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



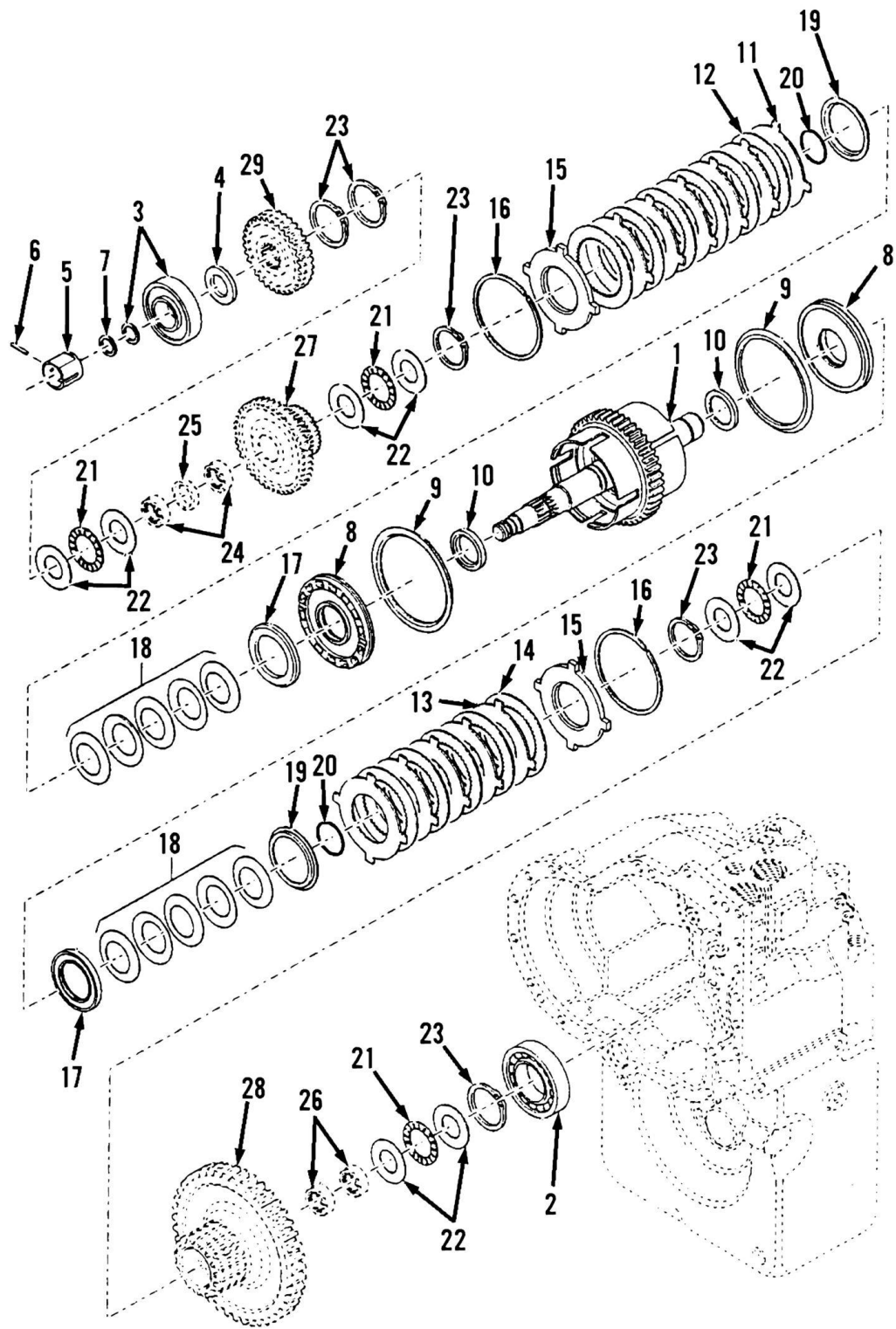
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FIGURE 4-31. DANATRANSMISSION - FORWARD AND REVERSE SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474398	1	TURBINE SHAFT DRUM AND PLUG ASSY	
2	91474284	1	OIL DISTRIBUTOR SLEEVE	
3	91474285	1	RETAINER SCREW	
4	10837060	3	PISTON RING	
5	91474287	2	PISTON AND SEAL ASSY, (includes items 6 & 7)	
6	91474288	2	OUTER SEAL	
7	91474289	2	INNER SEAL	
8	91474290	2	END PLATE	
9	91474309	2	SNAP RING	
10	10868277	2	WEAR PLATE	
11	91474310	2	DISC SPRING ASSY	
12	91474294	2	SNAP RING	
13	91474295	2	SNAP RING	
14	91474296	12	OUTER DISC	
15	91474297	12	INNER DISC	
16	91474298	4	BEARING	
17	91474299	8	THRUST WASHER	
18	91474300	1	BEARING	
19		Ref	BEARING, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
20		Ref	SPACER, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
21		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
22		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	

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FIGURE 4-32. DANA TRANSMISSION - 3RD SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



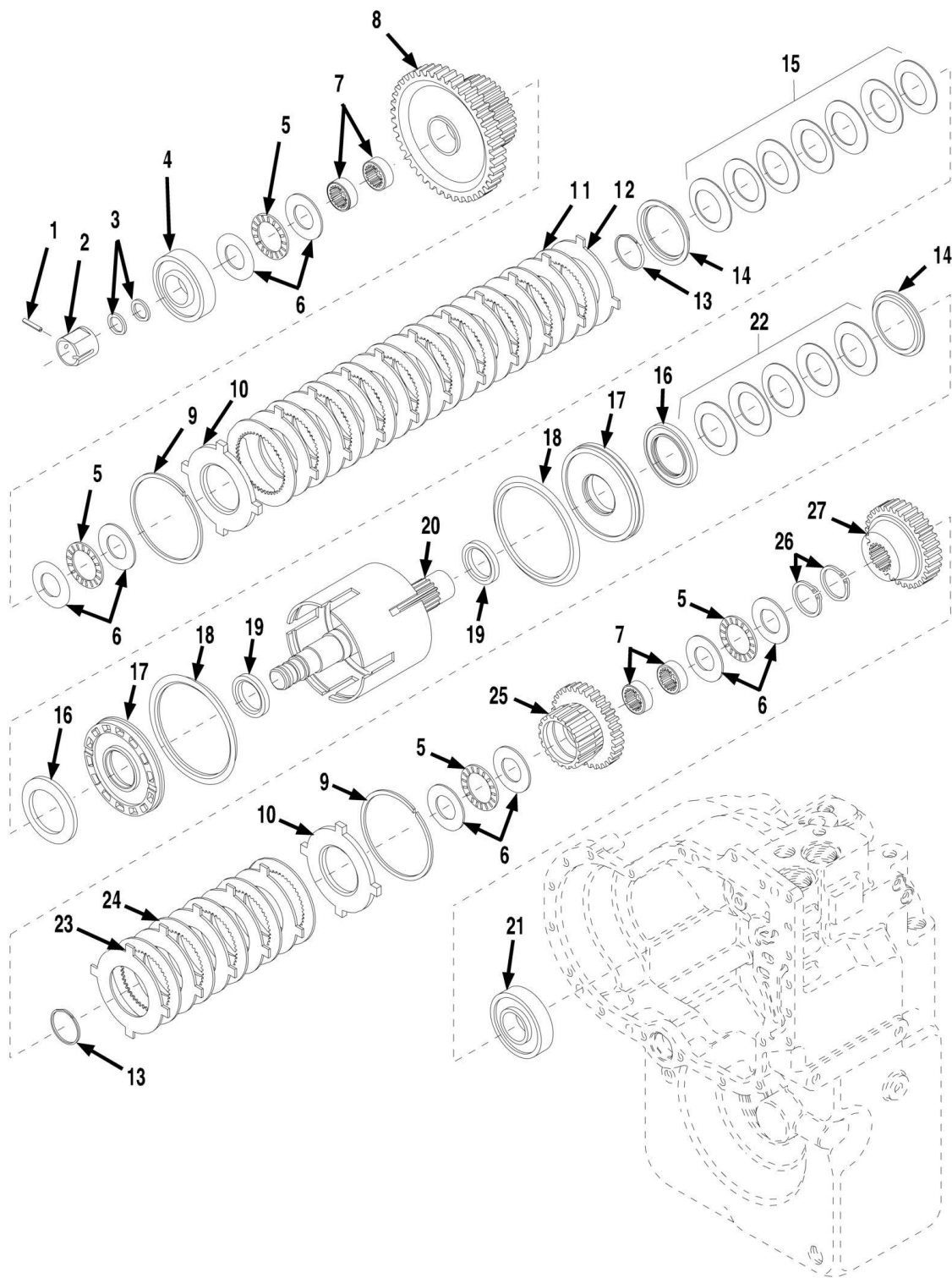
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FIGURE 4-32. DANA TRANSMISSION - 3RD SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474399	1	SHAFT DRUM AND PLUG ASSY	
2	91474302	1	ROLLER BEARING	
3	91474303	1	BEARING AND SEAL ASSY	
4	91474304	1	WASHER	
5	10868284	1	OIL DISTRIBUTOR SLEEVE	
6	91474306	1	SLEEVE RETAINING SCREW	
7	10837060	2	PISTON RING	
8	91474307	2	PISTON AND SEAL ASSY, (includes items 9 & 10)	
9	91474288	2	OUTER SEAL	
10	91474289	2	INNER SEAL	
11	91474296	6	OUTER DISC	
12	91474297	6	INNER DISC	
13	91474296	5	OUTER DISC	
14	91474297	5	INNER DISC	
15	91474290	2	END PLATE	
16	91474309	2	SNAP RING	
17	10868277	2	WEAR PLATE	
18	91474310	2	DISC SPRING ASSY	
19	91474294	2	SNAP RING	
20	91474295	2	SNAP RING	
21	91474311	4	BEARING	
22	91474312	8	THRUST WASHER	
23	91474313	5	SNAP RING	
24		Ref	BEARING, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
25		Ref	SPACER, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
26		Ref	BEARING, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
27		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
28		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
29		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	

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FIGURE 4-33. DANA TRANSMISSION - FIRST AND SECOND SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



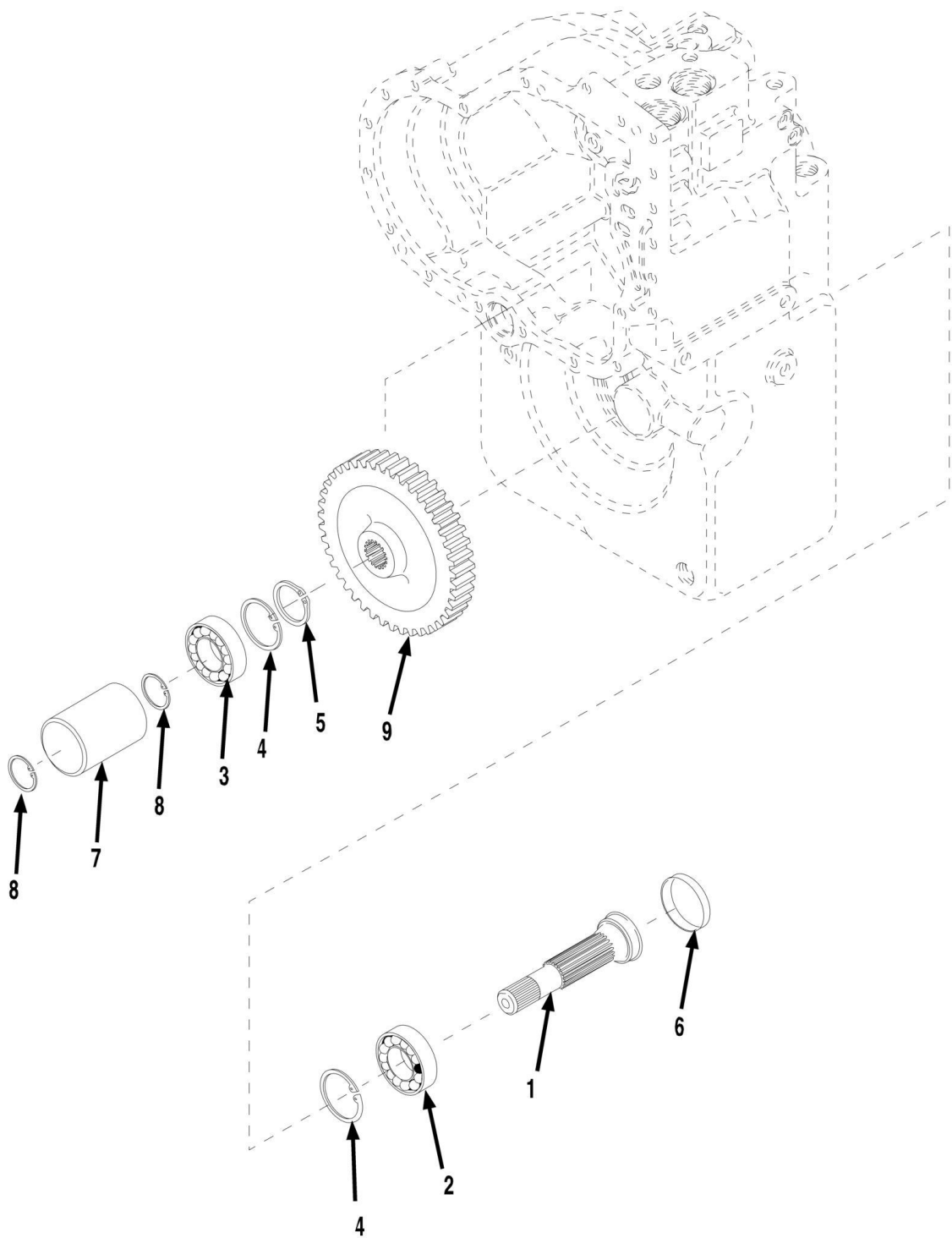
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FIGURE 4-33. DANA TRANSMISSION - FIRST AND SECOND SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474306	1	SLEEVE RETAINING SCREW	
2	91474319	1	OIL DISTRIBUTOR SLEEVE	
3	10837060	2	PISTON RING	
4	91474303	1	BEARING AND SEAL ASSY	
5	91474298	4	BEARING	
6	91474299	8	THRUST WASHER	
7		Ref	BEARING, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
8		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
9	91474309	2	SNAP RING	
10	91474308	2	END PLATE	
11	91474297	10	INNER DISC	
12	91474296	10	OUTER DISC	
13	91474295	2	SNAP RING	
14	91474294	2	SNAP RING	
15	91474317	1	DISC SPRING ASSY	
16	10868277	2	WEAR PLATE	
17	91474316	2	PISTON AND SEAL ASSY	
18	91474288	2	OUTER SEAL	
19	91474289	2	INNER SEAL	
20	91474314	1	SHAFT, DRUM, PLUG AND SEAT ASSY	
21	91474315	1	ROLLER BEARING	
22	91474310	1	DISC SPRING ASSY	
23	91474296	5	OUTER DISC	
24	91474297	5	INNER DISC	
25		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	
26	91474318	2	SNAP RING	
27		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	

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FIGURE 4-34. DANA TRANSMISSION - OUTPUT SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



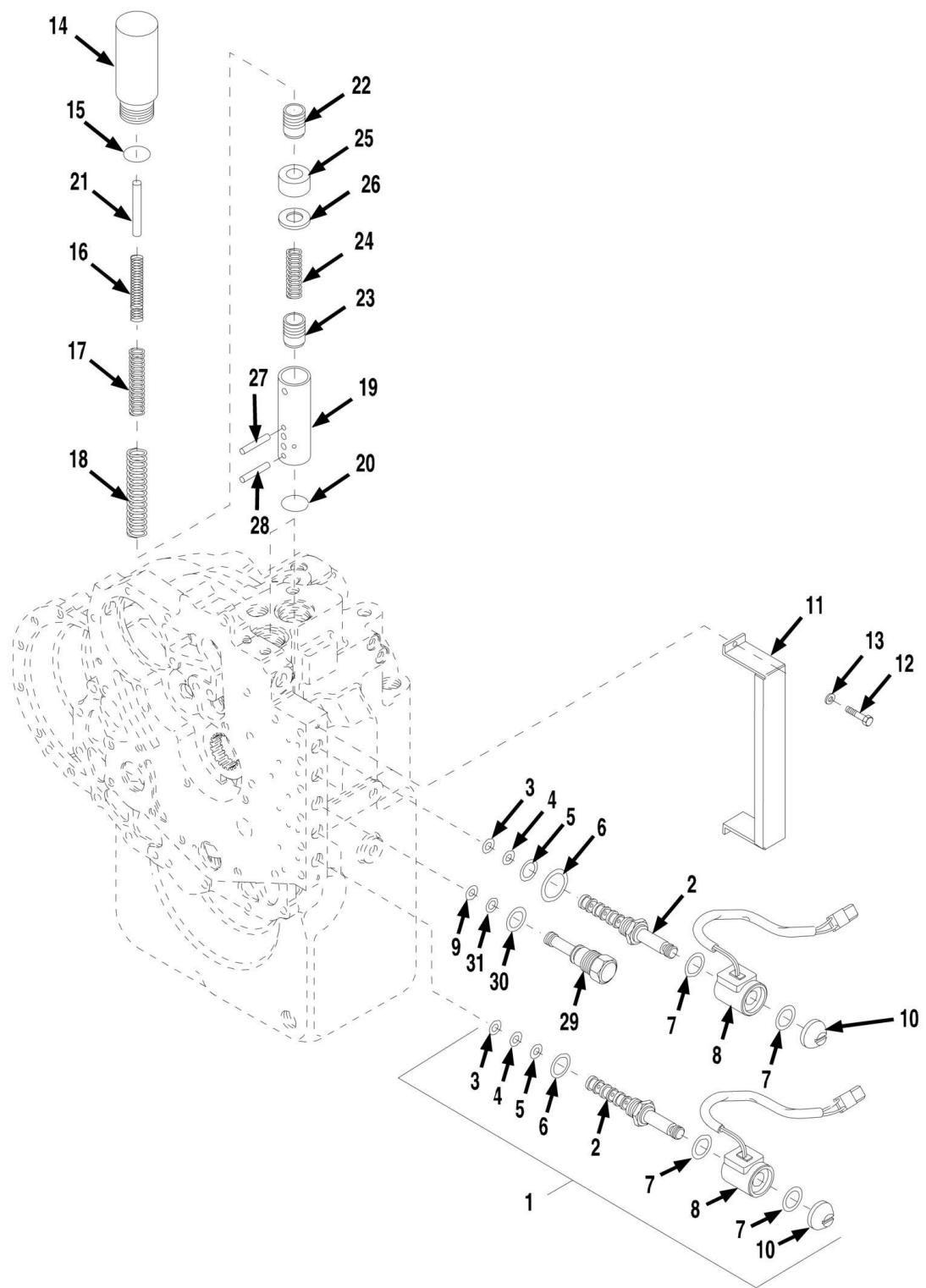
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FIGURE 4-34. DANA TRANSMISSION - OUTPUT SHAFT GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474320	1	OUTPUT SHAFT	
2	77104140	1	BEARING	
3	77104081	1	BEARING	
4	91474321	2	RETAINING RING	
5	91474322	1	RETAINING RING	
6	91474323	1	END PLUG	
7	91474324	1	DRIVE COUPLING	
8	91474313	2	SNAP RING	
9		Ref	GEAR, (See DANA TRANSMISSION - GEAR GROUP for Breakdown)	

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FIGURE 4-35. DANA TRANSMISSION - ELECTRIC CONTROL GROUP (SN 0193001 through 0193007, SN 0160000008 through 0160011036)



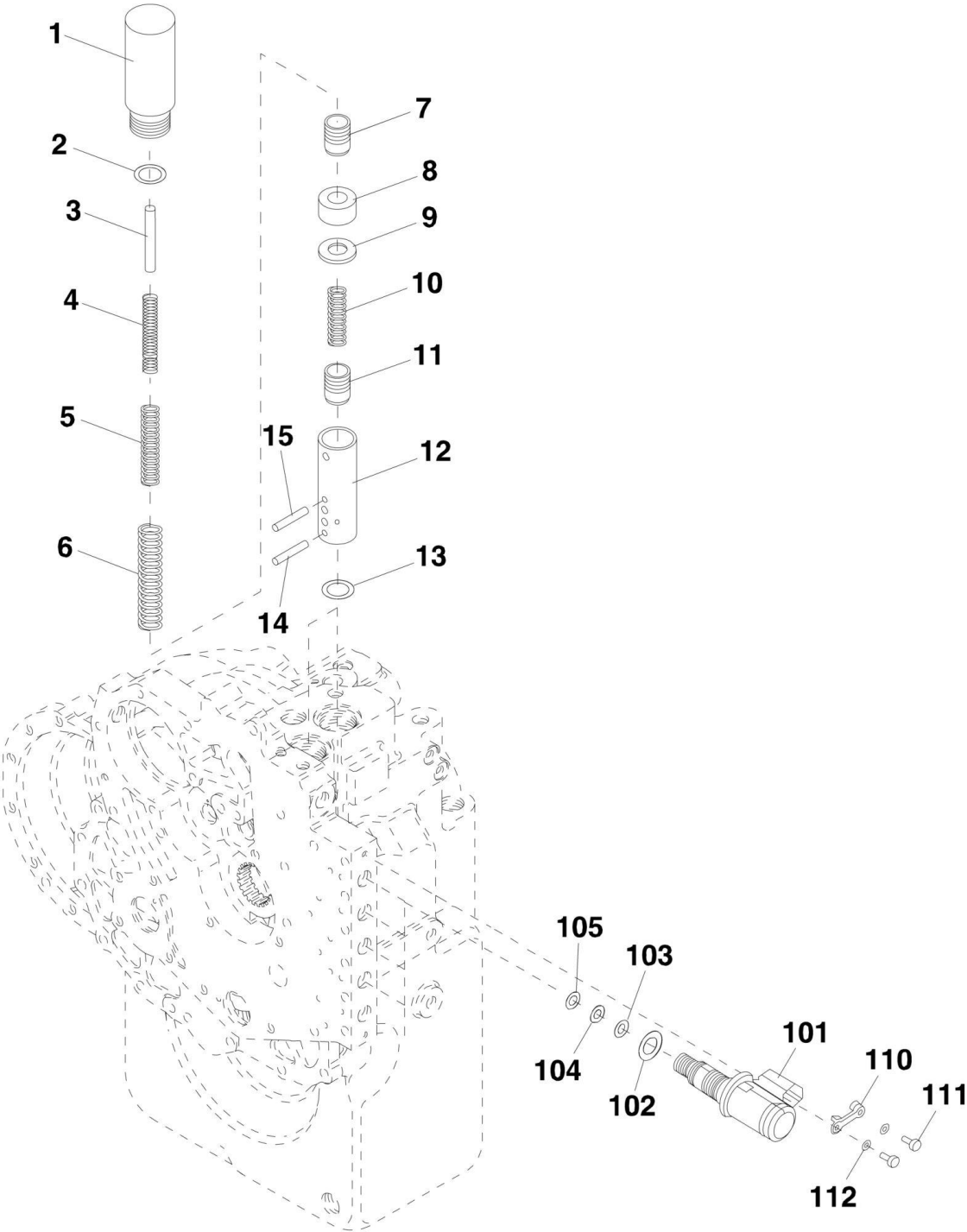
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**FIGURE 4-35. DANA TRANSMISSION - ELECTRIC CONTROL GROUP (SN 0193001 through 0193007,
SN 016000008 through 0160011036)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474325	4	SOLENOID ASSY, (includes items 2 thru 10)	
2	91474326	4	VALVE CARTRIDGE, (includes items 3 thru 6)	
3	8035081	4	O-RING	
4	91474328	4	O-RING	
5	10868329	4	O-RING	
6	91474330	4	O-RING	
7	91474331	8	O-RING	
8	91474332	4	SOLENOID COIL	
9	8035081	1	O-RING	
10	91474334	4	RETAINER NUT	
11	10868323	1	PROTECTIVE COVER	
12	91474336	2	SCREW	
13	8035075	2	LOCKWASHER	
14	91474338	2	HOUSING	
15	91474339	2	O-RING	
16	91474340	2	INNER SPRING	
17	91474341	2	MIDDLE SPRING	
18	91474342	2	OUTER SPRING	
19	91474343	2	SLEEVE	
20	91474344	2	O-RING	
21	91474345	2	PIN	
22	91474346	2	SPOOL	
23	91474347	2	SPOOL	
24	91474348	2	SPRING	
25	91474349	2	SPRING RETAINER	
26	91474350	2	SPRING SPACER	
27	91474351	2	UPPER PIN	
28	91474352	2	LOWER PIN	
29	91474353	1	PLUG	
30	91474330	1	O-RING	
31	10868329	1	O-RING	

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FIGURE 4-36. DANA TRANSMISSION - ELECTRIC CONTROL GROUP (SN 0160011061 through 0160040675, Excluding 0160040468 and 0160040672)



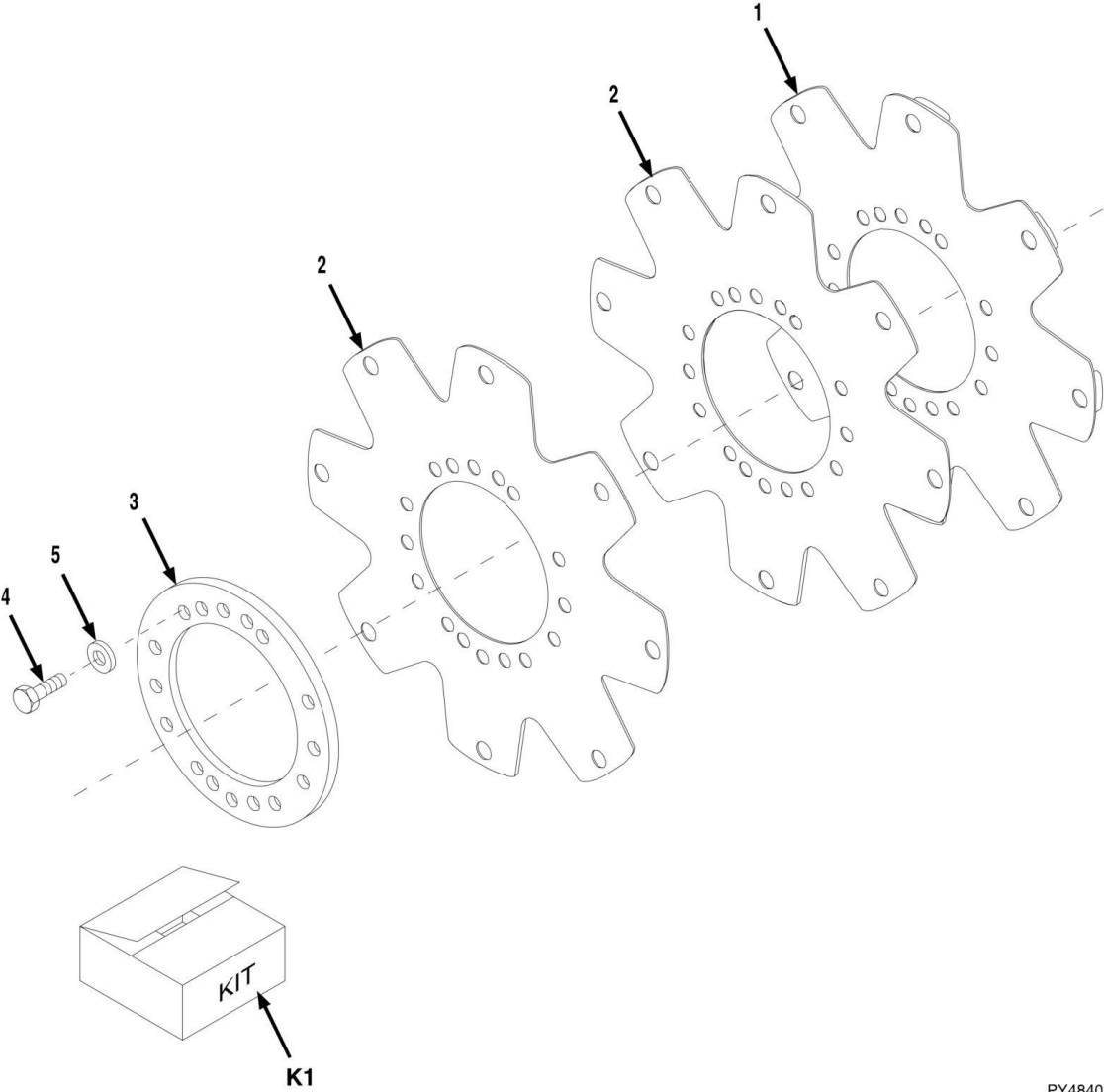
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FIGURE 4-36. DANA TRANSMISSION - ELECTRIC CONTROL GROUP (SN 0160011061 through 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474338	2	HOUSING	
2	91474339	2	O-RING	
3	91474345	2	PIN	
4	91474340	2	INNER SPRING	
5	91474341	2	MIDDLE SPRING	
6	91474342	2	OUTER SPRING	
7	91474346	2	SPOOL	
8	91474349	2	SPRING RETAINER	
9	91474350	2	SPRING SPACER	
10	91474348	2	SPRING	
11	91474347	2	SPOOL	
12	91474343	2	SLEEVE	
13	91474344	2	O-RING	
14	91474352	2	LOWER PIN	
15	91474351	2	UPPER PIN	
101	91514287	5	DROP IN WITH AMP, SOLENOID ASSY, (includes items 102 thru 105)	
102	91514288	5	O-RING	
103	91514289	5	O-RING	
104	91514290	5	O-RING	
105	91514291	5	O-RING	
110	91514292	6	SOLENOID CLAMP	
111	91514293	12	CAPSCREW	
112	91514294	12	PLAIN WASHER	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-37. DANA TRANSMISSION - DRIVE PLATE GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PY4840

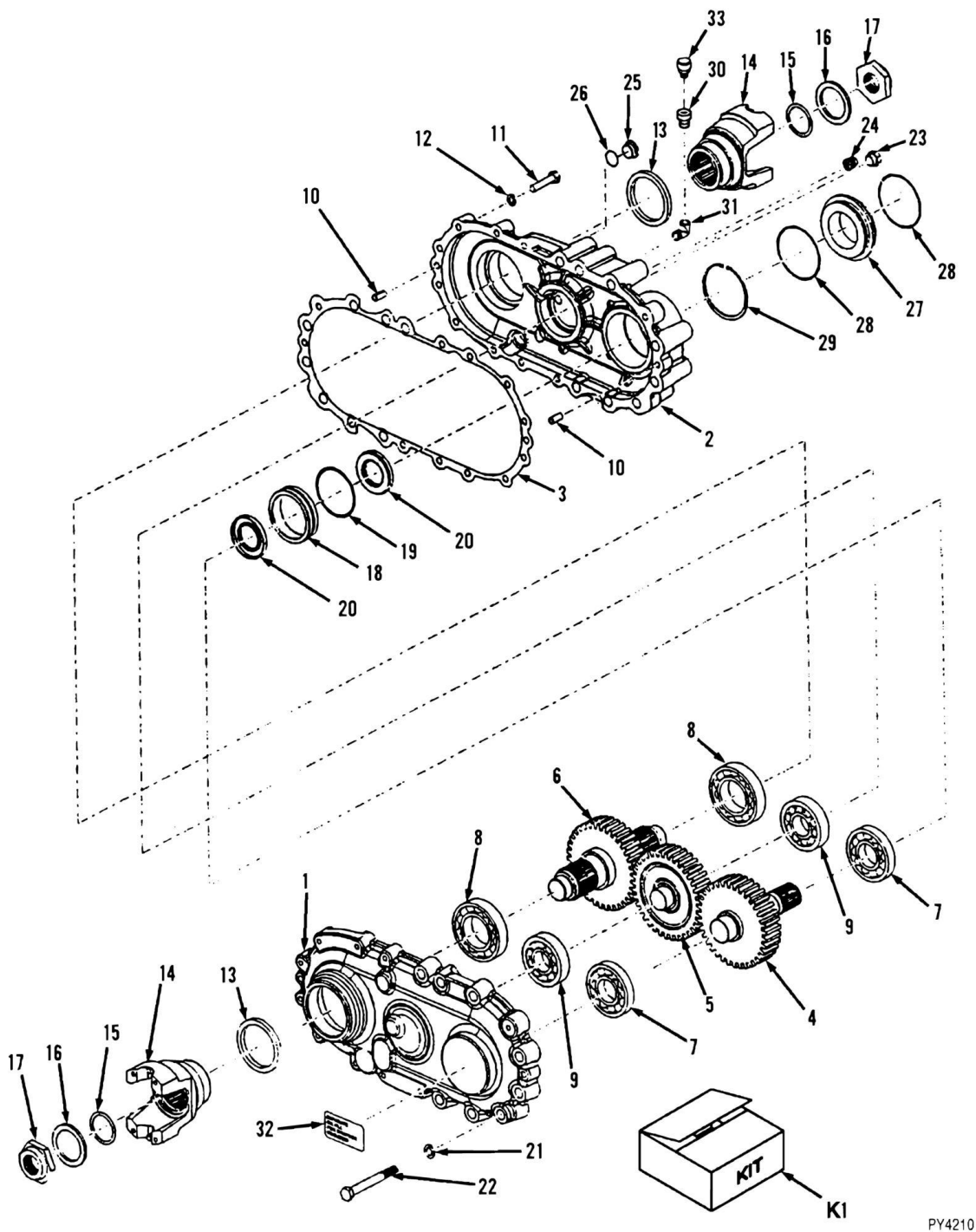
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-37. DANA TRANSMISSION - DRIVE PLATE GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	Kit	1	DRIVE PLATE ASSY	
2	Kit	1	DRIVE PLATE	
3	77104044	1	RING	
4	91474356	6	SCREW	
5	77104007	6	LOCKWASHER	
K1	10837075	1	DRIVE PLATE KIT, (includes items 1 thru 5)	

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FIGURE 4-38. DANA TRANSMISSION - DROP BOX GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PY4210

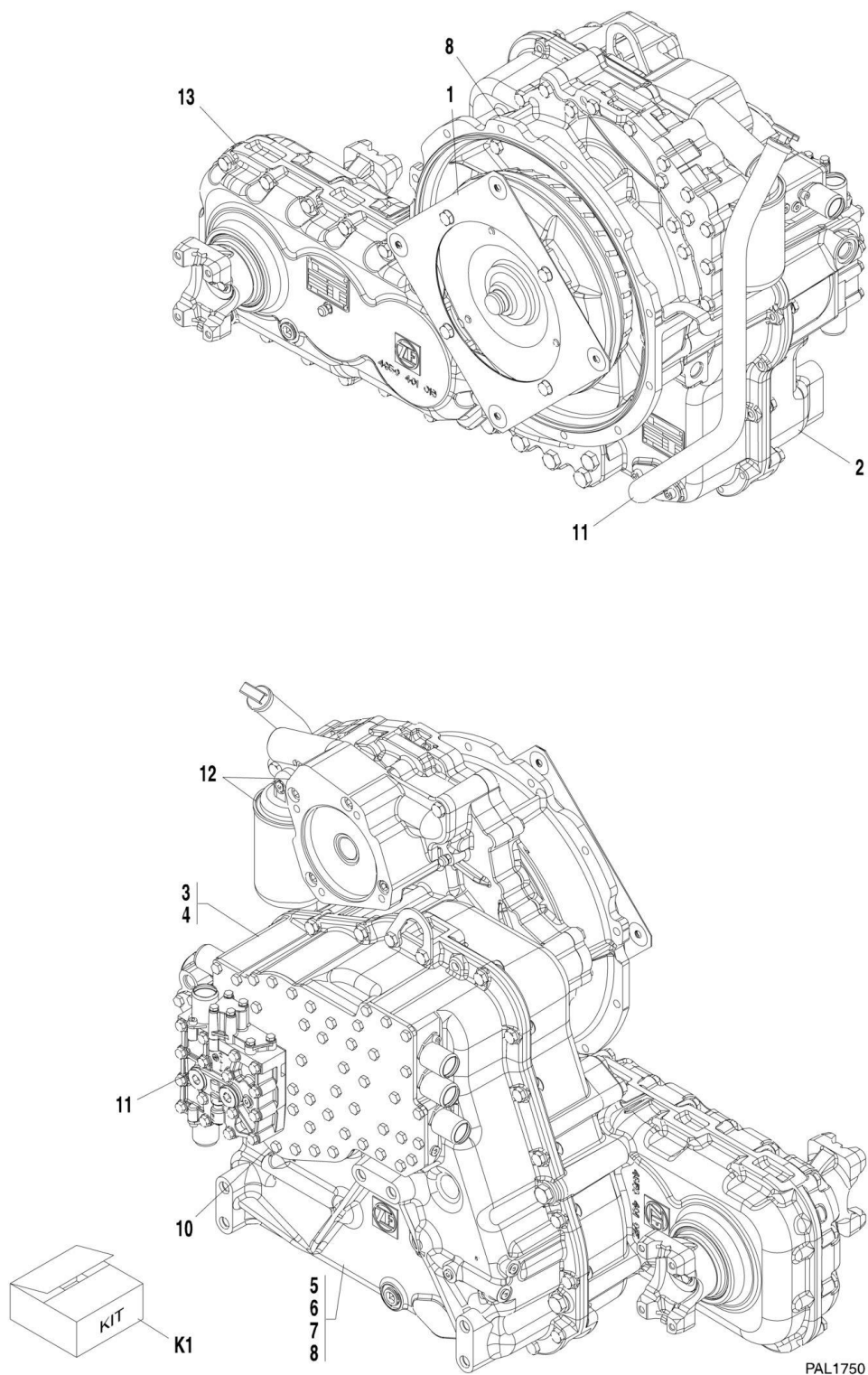
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-38. DANA TRANSMISSION - DROP BOX GROUP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91474627	1	DROP BOX, (includes all items)	
1	91474358	1	REAR COVER	
2	91474359	1	FRONT COVER	
3	Kit	1	GASKET	
4	91474361	1	INPUT SHAFT	
5	91474362	1	IDLER GEAR	
6	91474363	1	OUTPUT SHAFT	
7	91474364	2	BEARING	
8	91474365	2	BEARING	
9	91474366	2	BEARING	
10	91474200	2	PIN	
11	91474209	10	SCREW	
12	91474265	10	LOCKWASHER	
13	Kit	2	SEAL	
14	91474368	2	FLANGE	
15	Kit	1	O-RING	
16	91474370	2	WASHER	
17	91474371	2	NUT	
18	91474372	1	SLEEVE	
19	Kit	1	O-RING	
20	Kit	2	SEAL	
21	91474375	8	LOCKWASHER	
22	91474376	8	SCREW	
23	91474377	1	OIL LEVEL GLASS	
24	8007824	1	MAGNETIC DRAIN PLUG	
25	91474623	1	PLUG, (includes item 26)	
26	91474380	1	O-RING	
27	91474381	1	SLEEVE	
28	Kit	2	O-RING	
29	91474321	1	RETAINING RING	
30	91474600	1	ADAPTER	
31	91474383	1	FITTING	
32	N.S.S.	1	STICKER	
33	91474601	1	BREATHER	
K1	7028109	1	3-SHAFT DROP BOX GASKET AND SEAL KIT, (includes items 3, 13, 15, 19, 20 & 28)	

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FIGURE 4-39. ZF TRANSMISSION (SN 0160040675 to Present, Including 0160040468 and 0160040672)



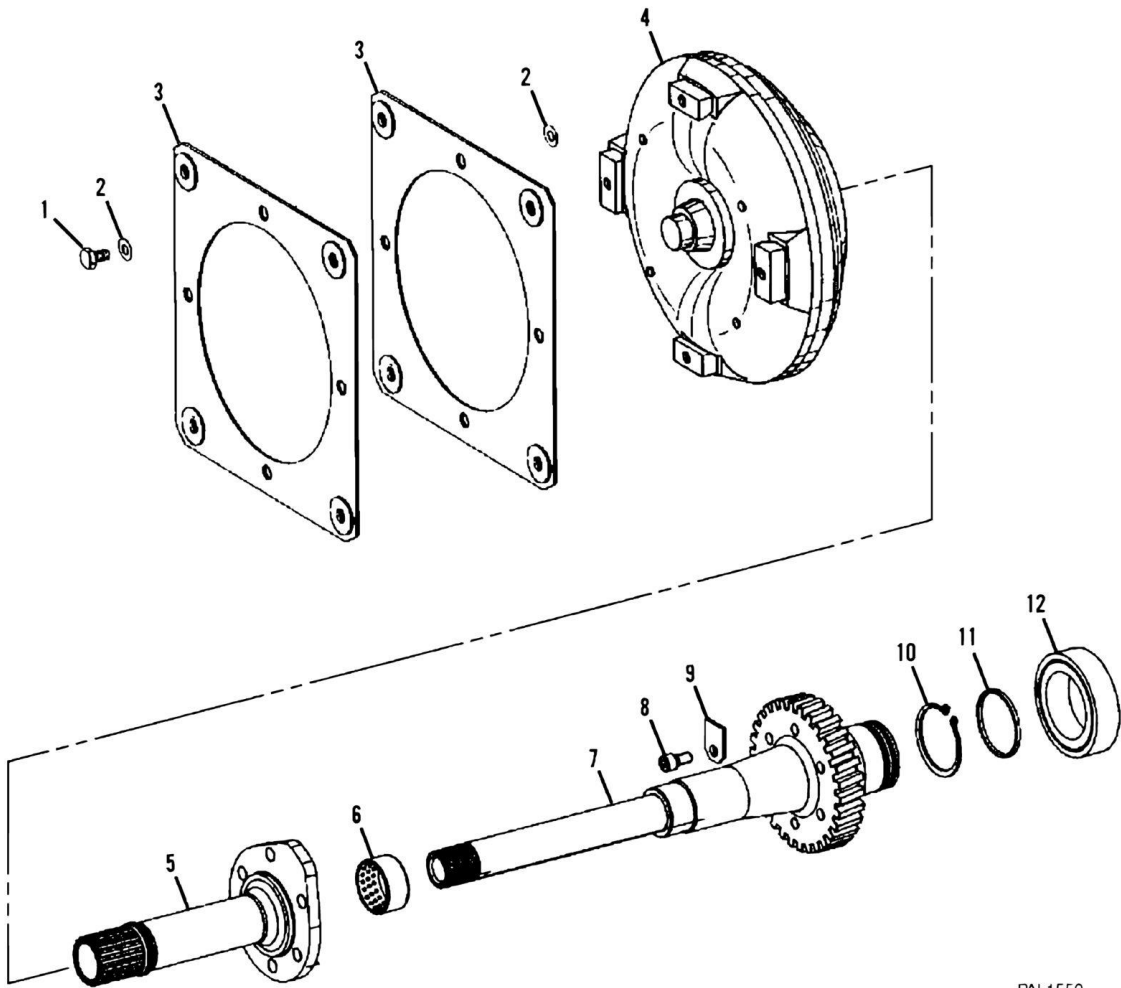
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-39. ZF TRANSMISSION (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	4540020	1	ZF TRANSMISSION, (includes all items)	C
		Ref	TORQUE CONVERTER AND INPUT, (See ZF TRANSMISSION - TRANSMISSION CONVERTER AND INPUT for Breakdown)	
2		Ref	GEARBOX HOUSING, (See ZF TRANSMISSION - GEARBOX HOUSING for Breakdown)	
3		Ref	FORWARD GEAR GROUP, (See ZF TRANSMISSION - REVERSING GEAR for Breakdown)	
4		Ref	REVERSE GEAR GROUP, (See ZF TRANSMISSION - REVERSE GEAR GROUP for Breakdown)	
5		Ref	1ST SHAFT GROUP, (See ZF TRANSMISSION - 1ST SHAFT GROUP for Breakdown)	
6		Ref	2ND SHAFT GROUP, (See ZF TRANSMISSION - 2ND SHAFT GROUP for Breakdown)	
7		Ref	3RD SHAFT GROUP, (See ZF TRANSMISSION - 3RD SHAFT GROUP for Breakdown)	
8		Ref	4TH SHAFT GROUP, (See ZF TRANSMISSION - 4TH SHAFT GROUP for Breakdown)	
9		Ref	POWER TAKE-OFF, (not shown), (See ZF TRANSMISSION - POWER TAKE-OFF for Breakdown)	
10		Ref	CONTROL UNIT AND PRESSURE REGULATOR, (See ZF TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR for Breakdown)	
11		Ref	GEARSHIFT SYSTEM, (See ZF TRANSMISSION - GEARSHIFT SYSTEM for Breakdown)	
12		Ref	OIL PUMP, FILTER AND DIPSTICK, (See ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK for Breakdown)	
13		Ref	TRANSFER BOX, (See ZF TRANSMISSION - TRANSFER BOX for Breakdown)	
K1	7026797	1	SEAL KIT, (includes all seals required for rebuild)	

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FIGURE 4-40. ZF TRANSMISSION - TRANSMISSION CONVERTER AND INPUT (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1550

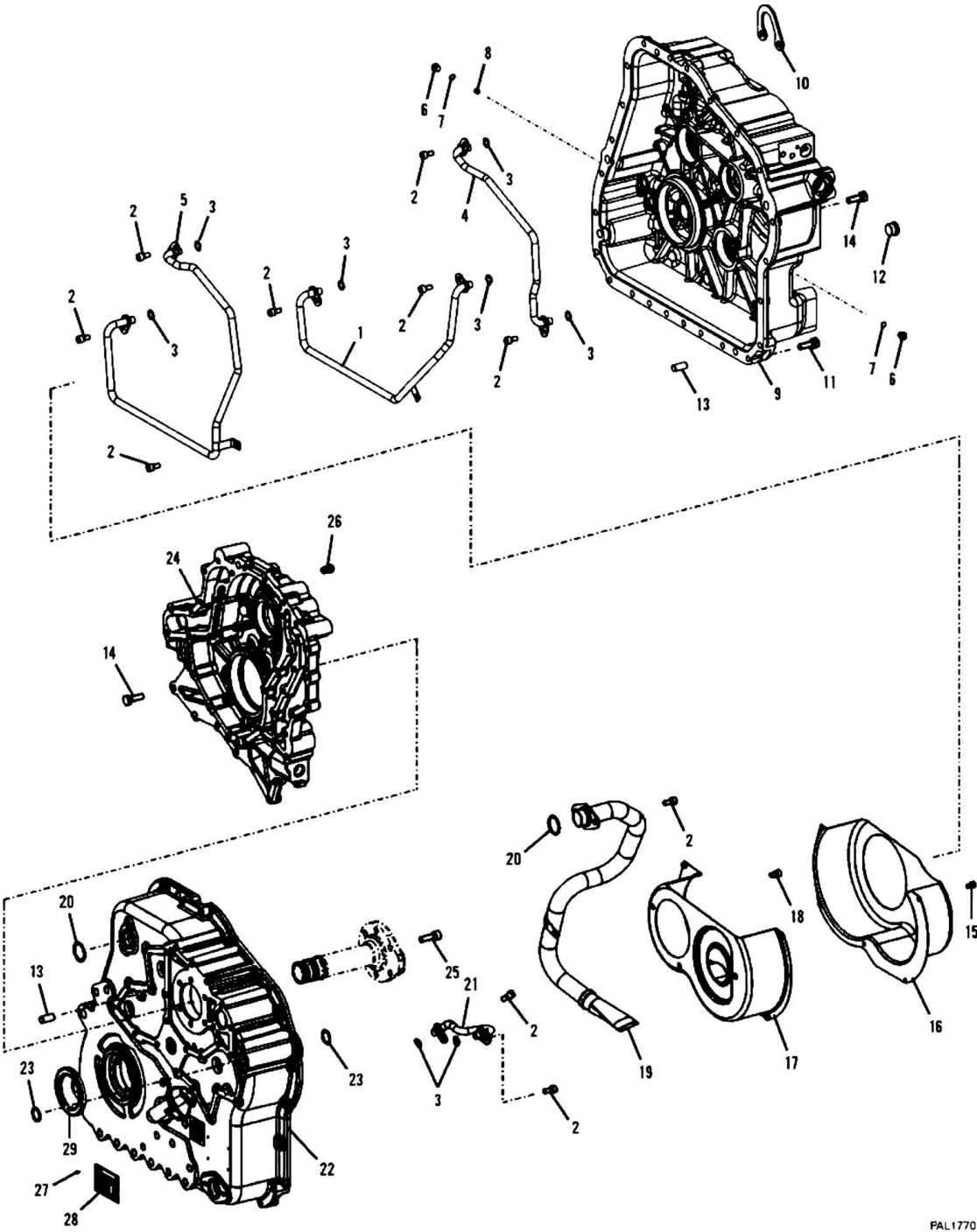
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-40. ZF TRANSMISSION - TRANSMISSION CONVERTER AND INPUT (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026744	4	HEX HD CAPSCREW, M10X16, GR8.8	
2	7026745	8	WASHER	
3	1319229	2	DIAPHRAGM	
4	7026746	1	CONVERTER	
5	7026748	1	STATOR SHAFT	
6	1319558	1	BEARING BUSHING	
7	7026747	1	TURBINE SHAFT	
8	N.S.S.	2	CAPSCREW, M8X16, GR8.8	
9	N.S.S.	2	SHACKLE	
10	80304405	1	RETAINING RING	
11	7026749	1	PISTON RING	
12	1319563	1	BALL BEARING	

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FIGURE 4-41. ZF TRANSMISSION - GEARBOX HOUSING (SN 0160040675 to Present, Including 0160040468 and 0160040672)



FAL1770

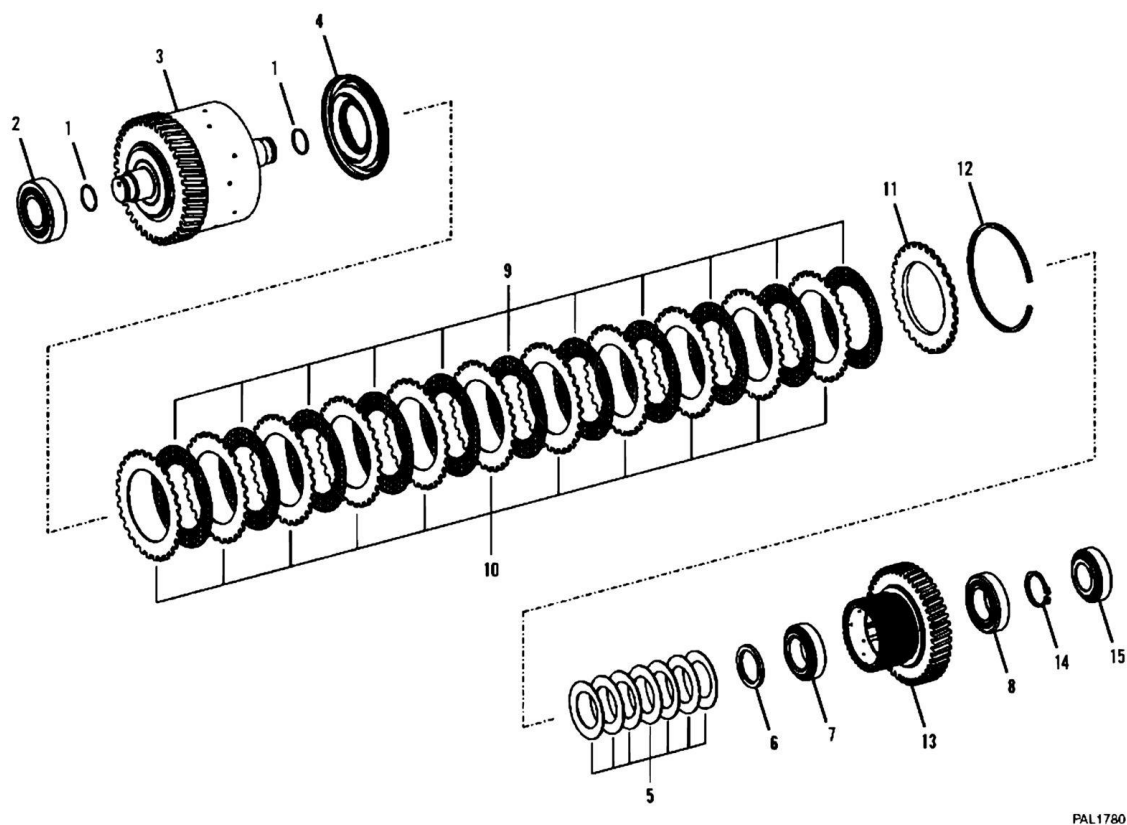
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-41. ZF TRANSMISSION - GEARBOX HOUSING (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026751	1	PIPE	
2	1319585	11	HEX HD CAPSCREW, M8X16, GR8.8	
3	8036847	8	O-RING	
4	7026750	1	PIPE	
5	7026752	1	PIPE	
6	1319670	7	PLUG	
7	80304327	7	O-RING	
8	N.S.S.	1	ORIFICE	
9	N.S.S.	1	HOUSING	
10	1319590	1	BRACKET	
11	N.S.S.	6	HEX HD CAPSCREW, M10X50, GR8.8	
12	N.S.S.	1	PLUG	
13	1319571	4	PIN	
14	80304394	31	HEX HD CAPSCREW, M10X30, GR8.8	
15	1319646	5	HEX HD CAPSCREW	
16	7026756	1	SCREEN SHEET	
17	7026755	1	SCREEN SHEET	
18	N.S.S.	3	CAPSCREW, M8X12, GR8.8	
19	7026753	1	SUCTION TUBE	
20	1319581	2	O-RING	
21	7026754	1	PIPE	
22	N.S.S.	1	HOUSING	
23	N.S.S.	2	O-RING	
24	N.S.S.	1	HOUSING	
25	N.S.S.	6	CAPSCREW, M10X30, GR8.8	
26	10731744	1	BREATHER	
27	N.S.S.	4	GROOVED STUD, 3X5	
28	N.S.S.	1	TYPE PLATE	
29	1319641	1	SHAFT SEAL	

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FIGURE 4-42. ZF TRANSMISSION - REVERSING GEAR (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1780

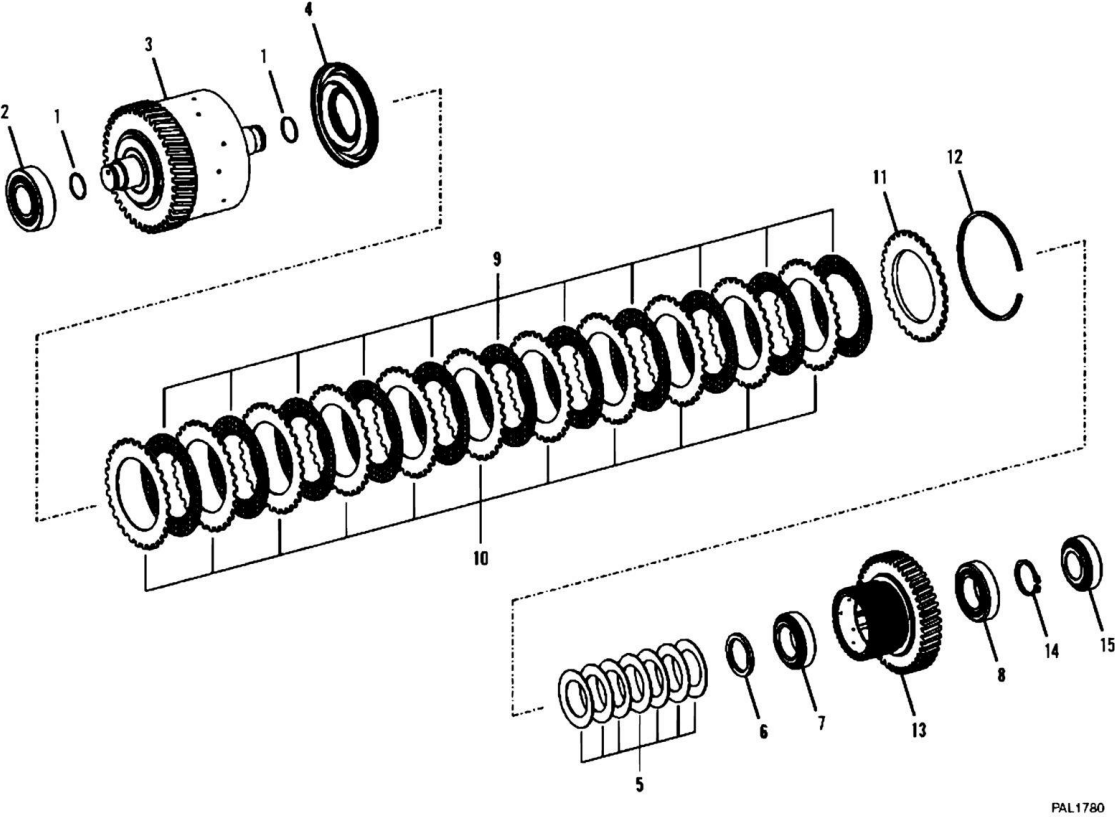
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-42. ZF TRANSMISSION - REVERSING GEAR (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026757	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	7	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	1319620	1	ROLLER BEARING	
9	7026758	11	FRICTION DISC	
10	7026759	11	STATIC DISC	
11	7026760	1	END SHIM	
12	1319600	AR	SNAP RING, 4.0	
12	7029850	AR	SNAP RING, 3.75	
12	1319601	AR	SNAP RING, 3.5	
12	7029849	AR	SNAP RING, 3.25	
12	1319602	AR	SNAP RING, 3.0	
12	7029852	AR	SNAP RING, 2.75	
12	1319603	AR	SNAP RING, 2.5	
12	7029851	AR	SNAP RING, 2.25	
12	1319604	AR	SNAP RING, 2.0	
13	1319638	1	DISC CARRIER	
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	
14	1319628	AR	RETAINING RING, 2.50	
14	1319629	AR	RETAINING RING, 2.40	
14	1319630	AR	RETAINING RING, 2.30	
14	1319631	AR	RETAINING RING, 2.20	
14	1319632	AR	RETAINING RING, 2.10	
15	1319636	1	ROLLER BEARING	

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FIGURE 4-43. ZF TRANSMISSION - REVERSE GEAR GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)



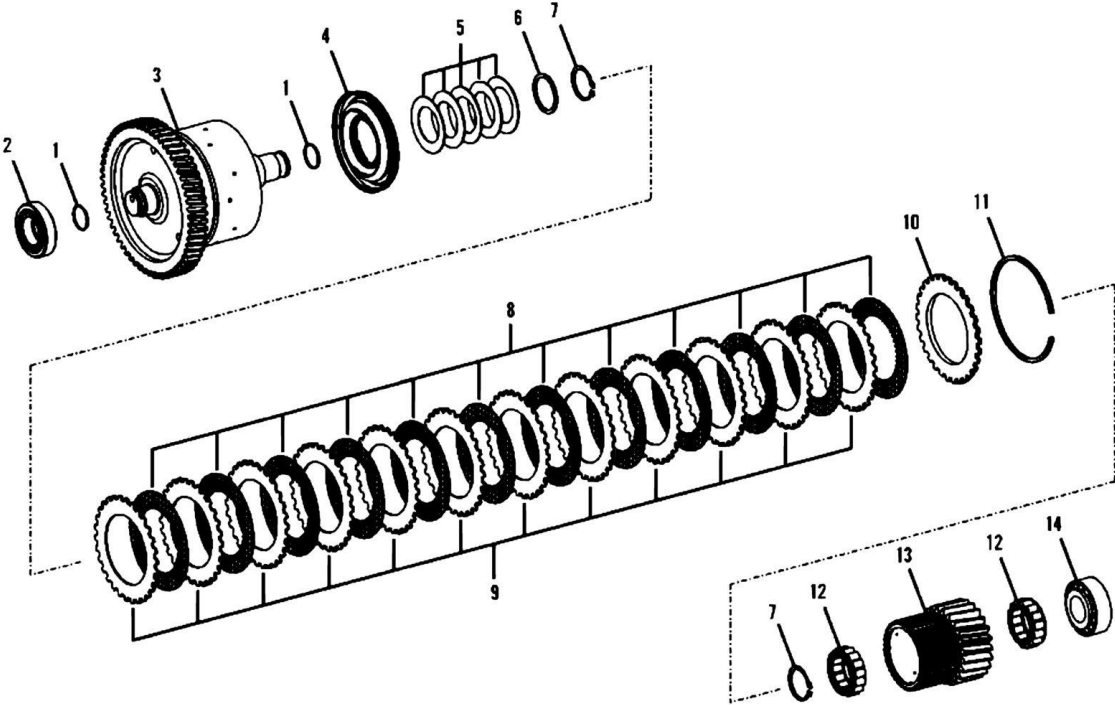
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-43. ZF TRANSMISSION - REVERSE GEAR GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026762	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	7	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	7026758	11	FRICTION DISC	
9	7026759	11	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
11	7029850	AR	SNAP RING, 3.75	
11	1319601	AR	SNAP RING, 3.5	
11	7029849	AR	SNAP RING, 3.25	
11	1319602	AR	SNAP RING, 3.0	
11	7029852	AR	SNAP RING, 2.75	
11	1319603	AR	SNAP RING, 2.5	
11	7029851	AR	SNAP RING, 2.25	
11	1319604	AR	SNAP RING, 2.0	
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	
14	1319628	AR	RETAINING RING, 2.50	
14	1319629	AR	RETAINING RING, 2.40	
14	1319630	AR	RETAINING RING, 2.30	
14	1319631	AR	RETAINING RING, 2.20	
14	1319632	AR	RETAINING RING, 2.10	
15	1319636	1	ROLLER BEARING	

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FIGURE 4-44. ZF TRANSMISSION - 1ST SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1790

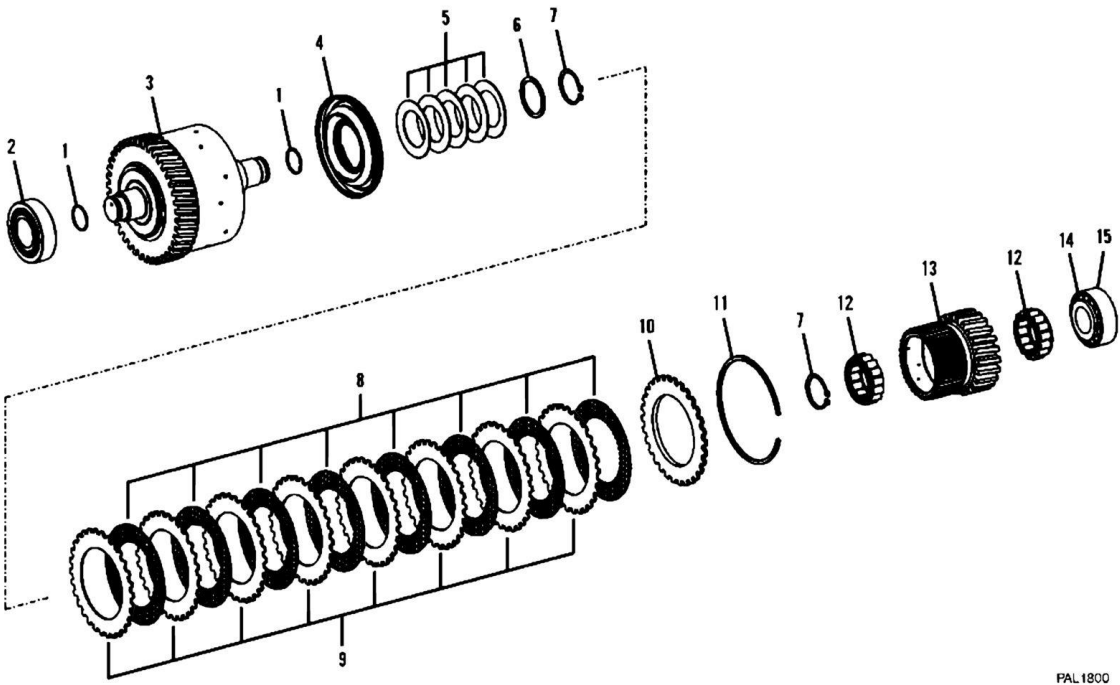
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-44. ZF TRANSMISSION - 1ST SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)

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	FRICTION DISC	
9	7026759	12	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
11	7029850	AR	SNAP RING, 3.75	
11	1319601	AR	SNAP RING, 3.5	
11	7029849	AR	SNAP RING, 3.25	
11	1319602	AR	SNAP RING, 3.0	
11	7029852	AR	SNAP RING, 2.75	
11	1319603	AR	SNAP RING, 2.5	
11	7029851	AR	SNAP RING, 2.25	
11	1319604	AR	SNAP RING, 2.0	
12	1319606	2	ROLLER CAGE	
13	1319607	1	DISC CARRIER	
14	8036190	1	ROLLER BEARING	

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FIGURE 4-45. ZF TRANSMISSION - 2ND SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1800

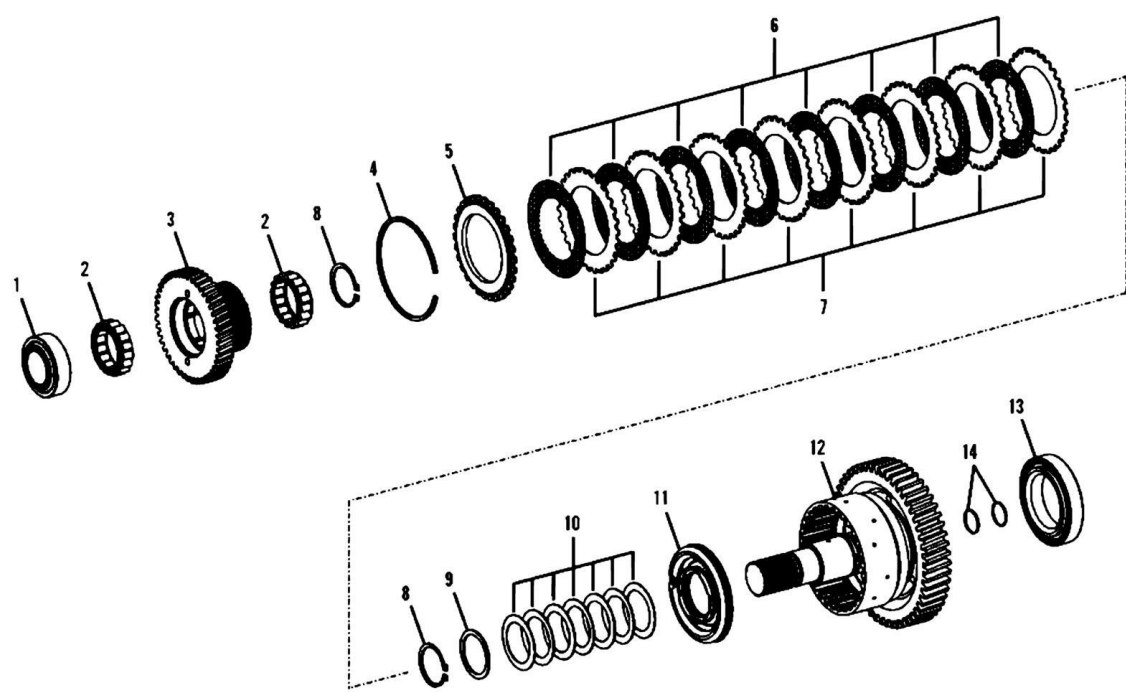
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-45. ZF TRANSMISSION - 2ND SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026763	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026758	8	FRICTION DISC	
9	7026759	8	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
11	7029850	AR	SNAP RING, 3.75	
11	1319601	AR	SNAP RING, 3.5	
11	7029849	AR	SNAP RING, 3.25	
11	1319602	AR	SNAP RING, 3.0	
11	7029852	AR	SNAP RING, 2.75	
11	1319603	AR	SNAP RING, 2.5	
11	7029851	AR	SNAP RING, 2.25	
11	1319604	AR	SNAP RING, 2.0	
12	1319606	2	ROLLER CAGE	
13	1319614	1	DISC CARRIER	
14	8036190	1	ROLLER BEARING	
15	7029533	1	INNER RING	

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FIGURE 4-46. ZF TRANSMISSION - 3RD SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1810

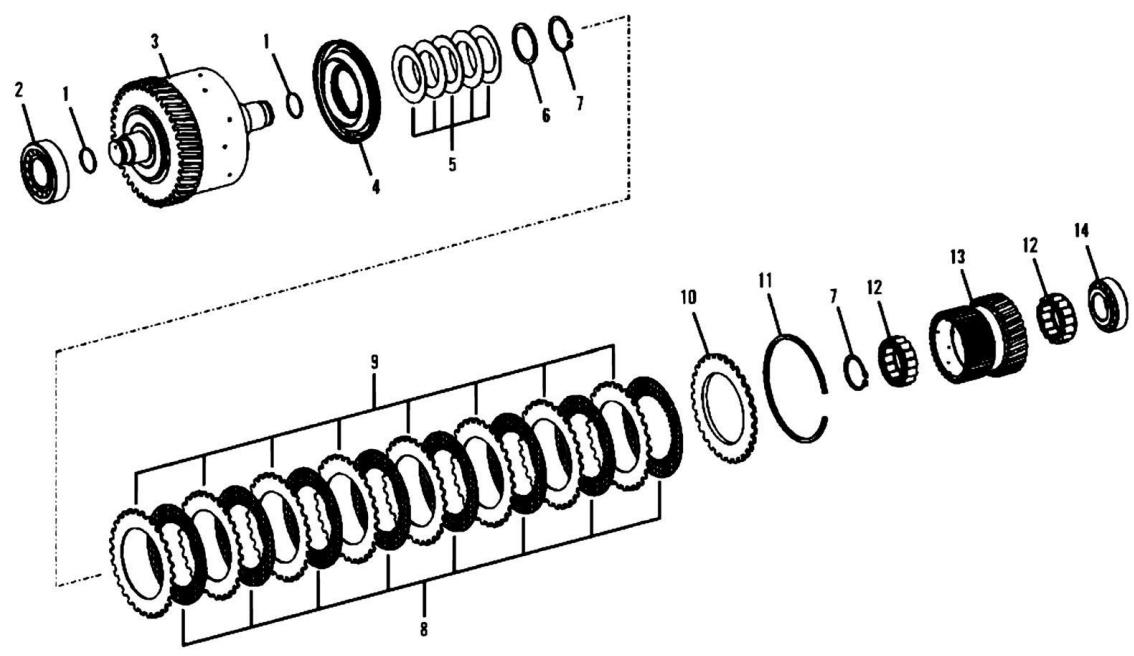
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FIGURE 4-46. ZF TRANSMISSION - 3RD SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026768	1	ROLLER BEARING	
2	7026767	1	ROLLER BEARING	
3	1319619	1	DISC CARRIER	
4	1319600	AR	SNAP RING, 4.0	
4	7029850	AR	SNAP RING, 3.75	
4	1319601	AR	SNAP RING, 3.5	
4	7029849	AR	SNAP RING, 3.25	
4	1319602	AR	SNAP RING, 3.0	
4	7029852	AR	SNAP RING, 2.75	
4	1319603	AR	SNAP RING, 2.5	
4	7029851	AR	SNAP RING, 2.25	
4	1319604	AR	SNAP RING, 2.0	
5	7026760	1	END SHIM	
6	7026758	8	FRICTION DISC	
7	7026759	8	STATIC DISC	
8	80304227	2	RETAINING RING	
9	7026766	1	WASHER	
10	7026765	7	CUP SPRING	
11	8036575	1	PISTON	
12	7026764	1	COUPLING	
13	7026769	1	ROLLER BEARING	
14	7026761	2	PISTON BEARING	

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FIGURE 4-47. ZF TRANSMISSION - 4TH SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1860

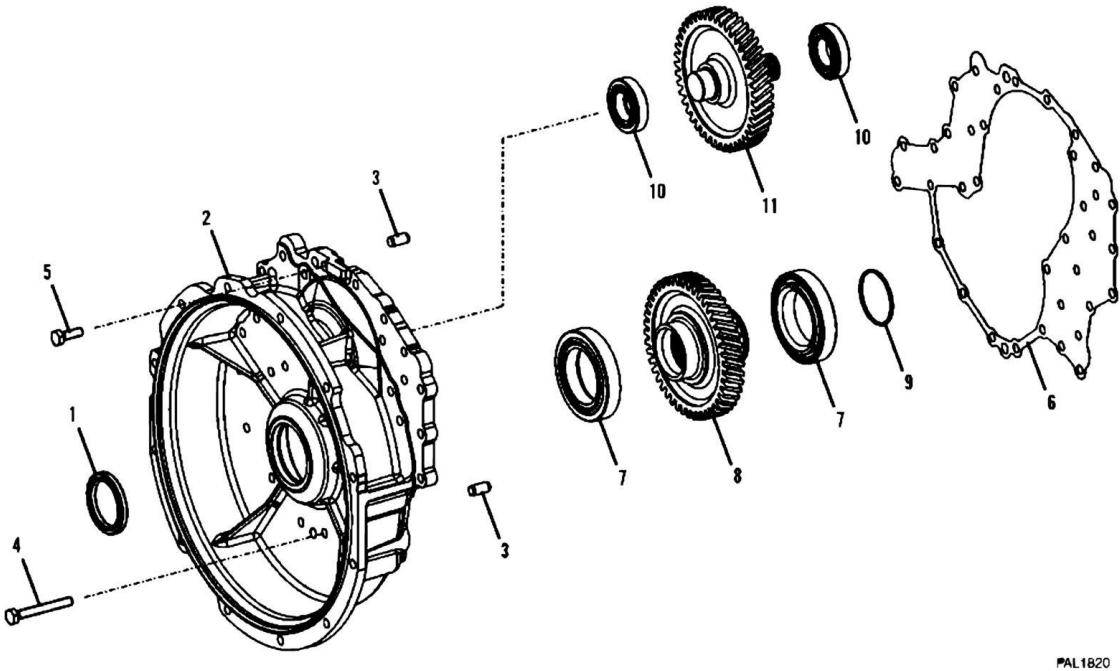
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FIGURE 4-47. ZF TRANSMISSION - 4TH SHAFT GROUP (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026770	1	COUPLING	
4	8036575	1	PISTON	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026758	12	FRICTION DISC	
9	7026759	12	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
11	7029850	AR	SNAP RING, 3.75	
11	1319601	AR	SNAP RING, 3.5	
11	7029849	AR	SNAP RING, 3.25	
11	1319602	AR	SNAP RING, 3.0	
11	7029852	AR	SNAP RING, 2.75	
11	1319603	AR	SNAP RING, 2.5	
11	7029851	AR	SNAP RING, 2.25	
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 4-48. ZF TRANSMISSION - POWER TAKE-OFF (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PA11820

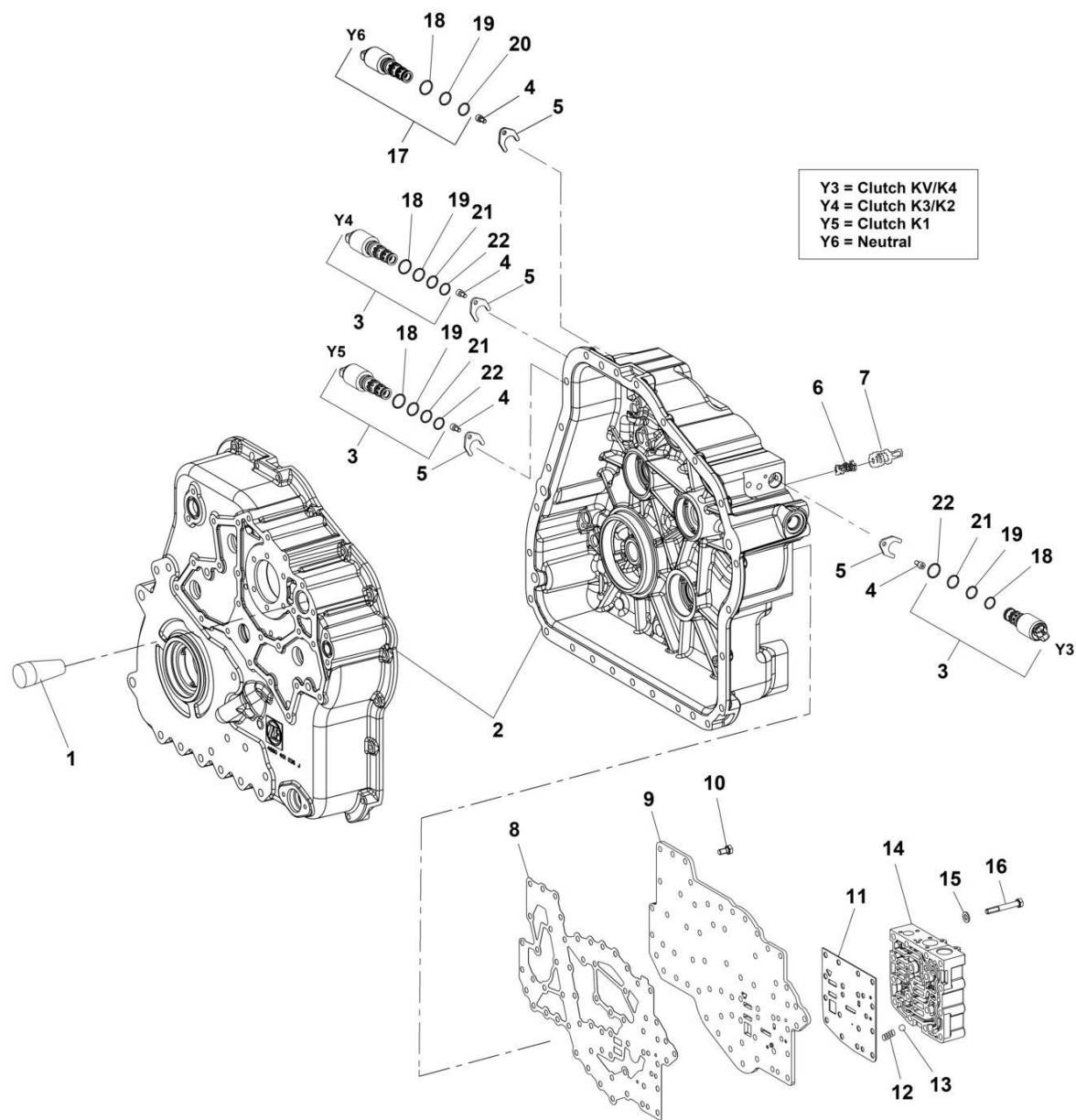
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FIGURE 4-48. ZF TRANSMISSION - POWER TAKE-OFF (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319576	1	SHAFT SEAL	
2	70021526	1	HOUSING	
3	1319571	2	CYLINDRICAL PIN	
4	7026775	15	HEX HD CAPSCREW, M10X80, GR8.8	
5	80304394	21	HEX HD CAPSCREW, M10X30, GR8.8	
6	7026774	1	GASKET	
7	7026769	2	ROLLER BEARING	
8	7026771	1	SHAFT	
9	7026772	1	PISTON RING	
10	1319608	2	ROLLER BEARING	
11	7026773	1	SHAFT	

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FIGURE 4-49. ZF TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR (SN 0160040675 to Present, Including 0160040468 and 0160040672)



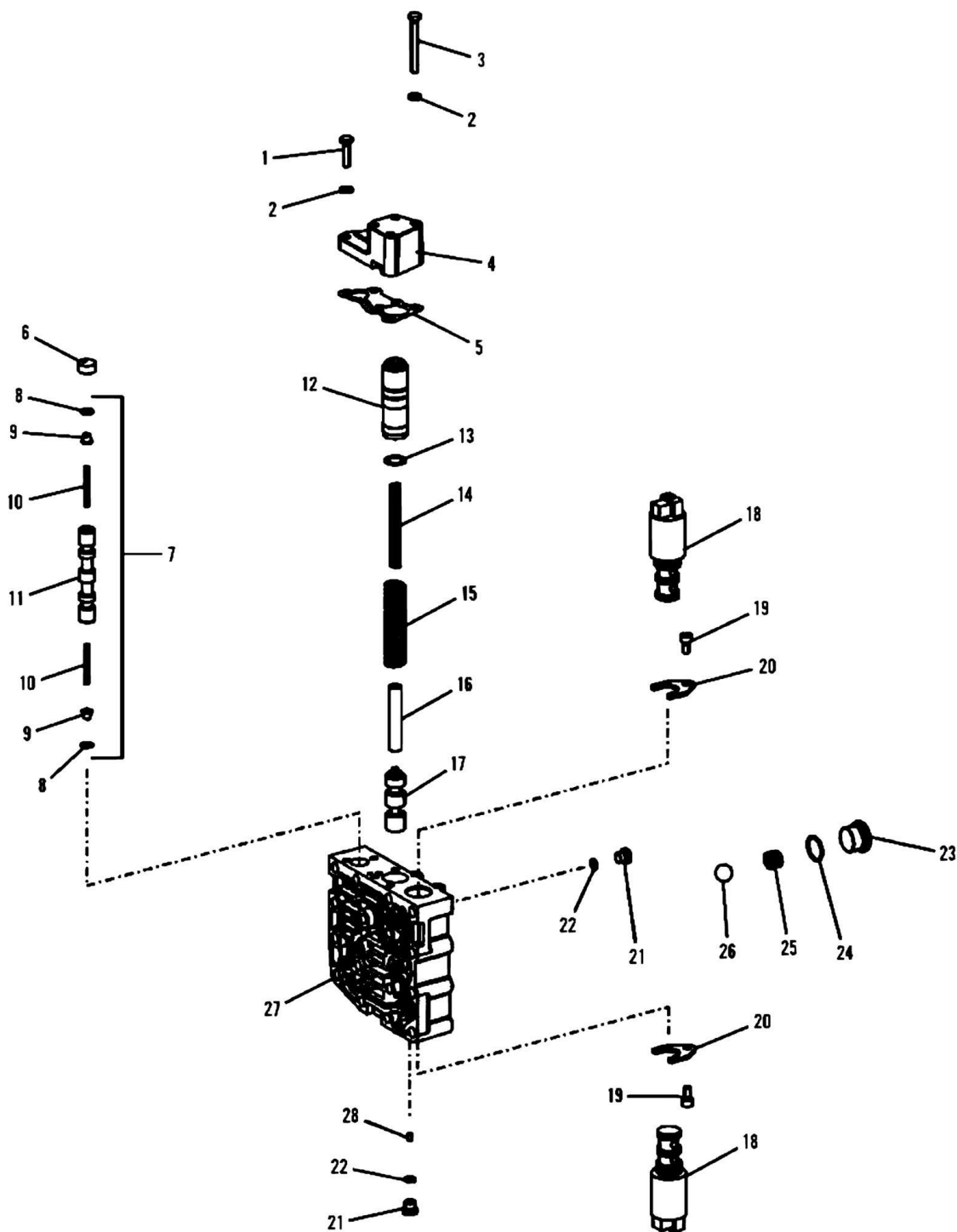
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FIGURE 4-49. ZF TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026782	1	VALVE	
2		Ref	HOUSING, (See DANA TRANSMISSION - TORQUE CONVERTER GROUP for Breakdown)	
3	8036529	3	SOLENOID VALVE	
4	7029715	4	CAPSCREW, M6X12, GR8.8	
5	7029267	4	BRACKET	
6	7026784	1	COMPRESSED SPRING	
7	7026783	1	PISTON	
8	7026776	1	GASKET	
9	7026777	1	PLATE	
10	7026780	46	HEX HD CAPSCREW	
11	7026779	1	INTERMEDIATE SHEET	
12	7026778	1	COMPRESSED SPRING	
13	10731761	1	BALL	
14		Ref	VALVE HOUSING, (See DANA TRANSMISSION - ELECTRIC CONTROL GROUP for Breakdown)	
15	10731756	16	WASHER	
16	7026781	16	HEX HD CAPSCREW, M8X60, GR10.9	
17	8036528	1	SOLENOID VALVE	
18	70029540	4	O-RING	
19	70029541	4	O-RING	
20	70029530	1	O-RING	
21	70029542	3	O-RING	
22	70029543	3	O-RING	

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FIGURE 4-50. ZF TRANSMISSION - GEARSHIFT SYSTEM (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1840

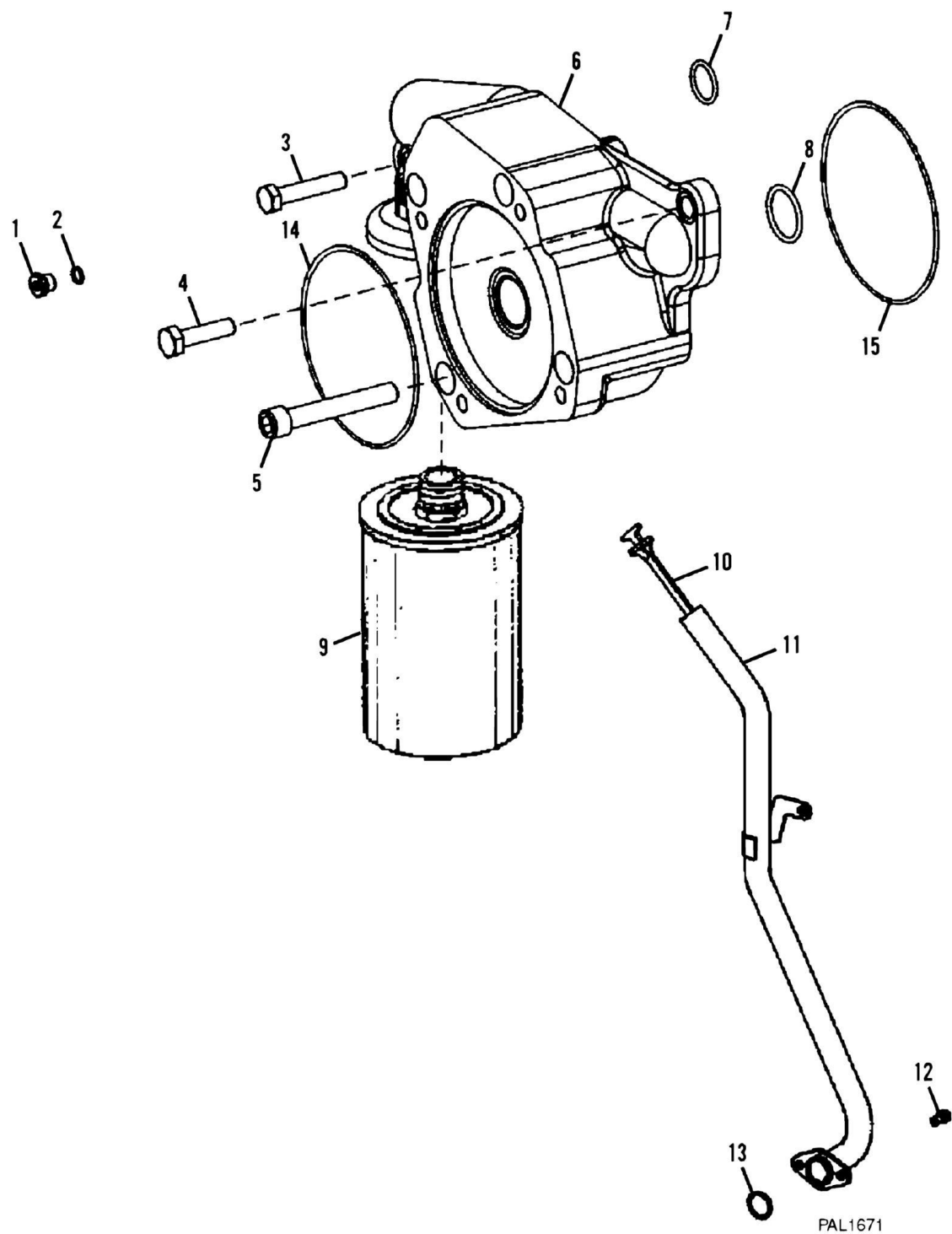
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-50. ZF TRANSMISSION - GEARSHIFT SYSTEM (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319693	2	HEX HD CAPSCREW, M6X25, GR10.9	
2	1319661	6	WASHER	
3	1321265	4	HEX HD CAPSCREW, M6X55, GR10.9	
4	7026789	1	COVER	
5	7026788	1	GASKET	
6	7026787	1	SPACER	
7	1319694	1	VALVE ASSY, (includes items 8 thru 11)	
8	N.S.S.	2	SNAP RING	
9	N.S.S.	2	SPRING SLEEVE	
10	N.S.S.	2	COMPRESSED SPRING	
11	N.S.S.	1	PISTON	
12	7026790	1	PISTON	
13	1319685	AR	WASHER, 2.0	
13	1319686	AR	WASHER, 1.0	
13	1319687	AR	WASHER, 0.5	
13	1319688	AR	WASHER, 0.3	
13	1319689	AR	WASHER, 0.2	
14	1319684	1	COMPRESSED SPRING	
15	1319683	1	COMPRESSED SPRING	
16	7026786	1	SLEEVE	
17	7026785	1	CONTROL PISTON	
18	8036528	2	SOLENOID VALVE	
19	N.S.S.	2	HEX HD CAPSCREW, M6X12, GR8.8	
20	N.S.S.	2	BRACKET	
21	1319670	2	PLUG, M10	
22	80304327	2	O-RING	
23	N.S.S.	2	PLUG, M24	
24	70000656	2	O-RING	
25	10732072	2	COMPRESSED SPRING	
26	10732071	2	BALL	
27	70022790	1	VALVE HOUSING	
28	1319652	1	ORIFICE	

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FIGURE 4-51. ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK (SN 0160040675 to Present, Including 0160040468 and 0160040672)



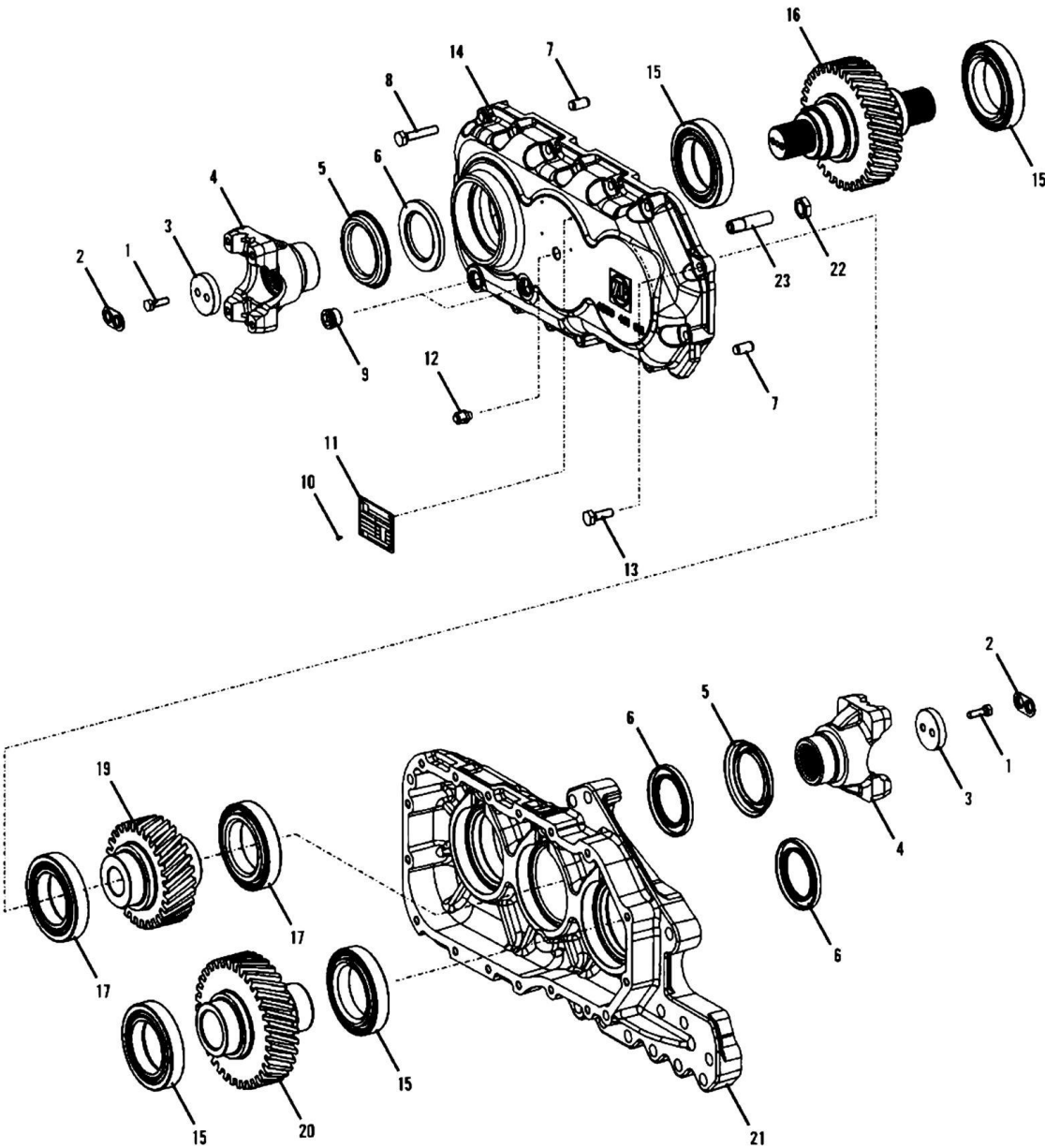
SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-51. ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK (SN 0160040675 to Present,
Including 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319670	2	PLUG, M10X1	
2	80304327	2	O-RING	
3	7026794	1	HEX HD CAPSCREW, M10X50, GR8.8	
4	80304394	1	HEX HD CAPSCREW, M10X30, GR8.8	
5	7026793	4	CAPSCREW, M12X80, GR10.9	
6	7026791	1	PUMP	
6	7029417	1	O-RING, (located between two halves of oil pump)	
7	7026792	3	O-RING	
8	1319719	1	O-RING	
9	1319726	1	FILTER	
10	8841322	1	DIPSTICK	
11	1001095744	1	DIPSTICK TUBE	
12	1319585	2	CAPSCREW, M8X16, GR8.8	
13	1319581	1	O-RING	
14		Ref	O-RING, (located between implement pump and charge pump), (See ENGINE ASSEMBLY, LH VIEW - JOHN DEERE ENGINE, ENGINE ASSEMBLY - PERKINS ENGINE, or ENGINE ASSEMBLY - CUMMINS)	
15	8036250	1	O-RING, (located between oil pump and transmission)	

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FIGURE 4-52. ZF TRANSMISSION - TRANSFER BOX (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAL1740

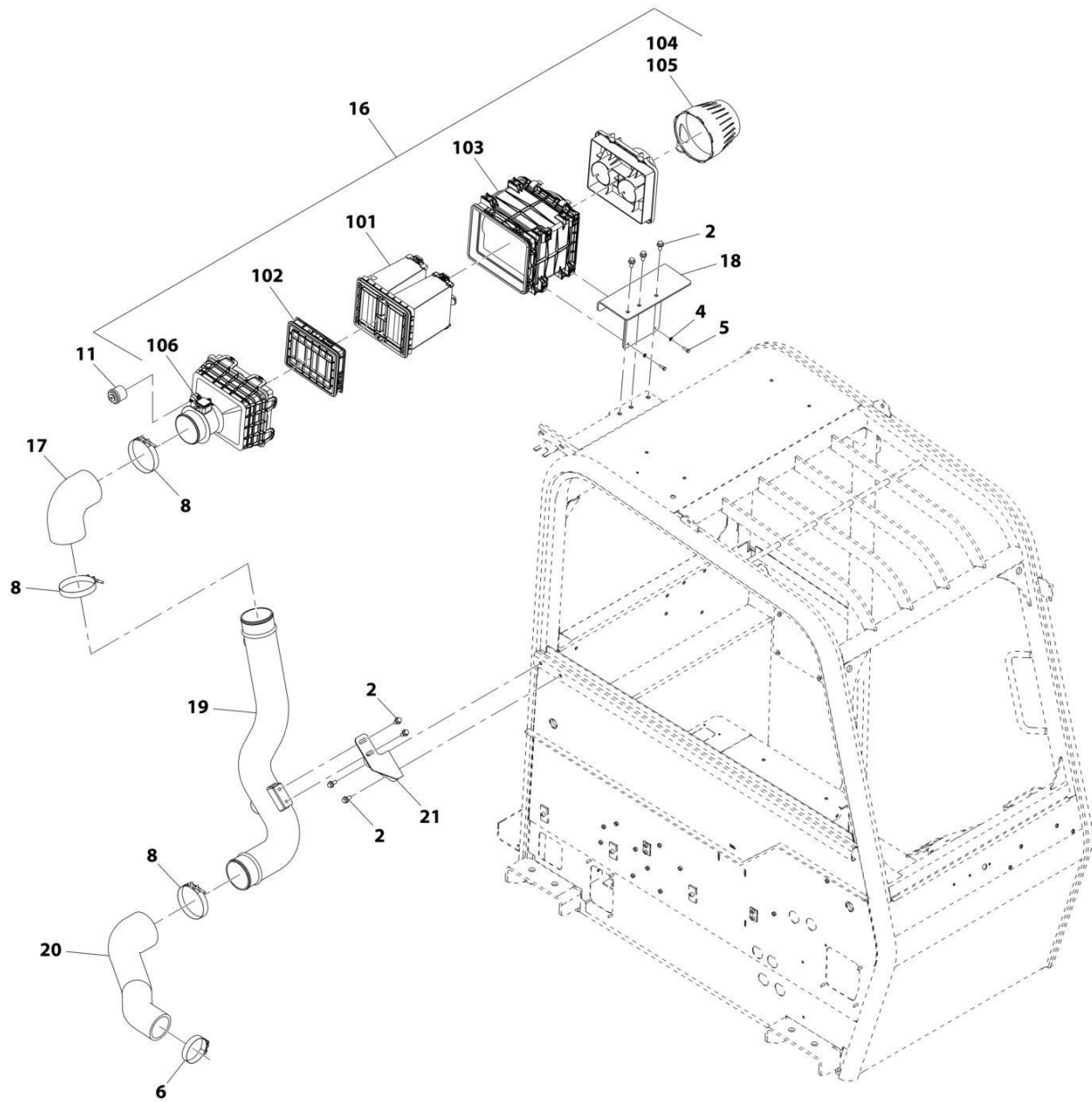
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-52. ZF TRANSMISSION - TRANSFER BOX (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70020549	1	TRANSFER BOX, (includes all items)	
1	10731959	4	HEX HD CAPSCREW, M8X25, GR10.9	
2	N.S.S.	2	TAB WASHER	
3	1319648	2	WASHER	
4	7027273	2	FLANGE	
5	1319647	2	SCREEN SHEET	
6	1320755	3	SHAFT SEAL	
7	1319571	2	CYLINDRICAL PIN	
8	70023801	15	HEX HD CAPSCREW, M10X50, GR8.8	
9	70023404	2	PLUG	
10	10731758	4	STUD, 3X5	
11	N.S.S.	1	PLATE	
12	1319436	1	BREATHER	
13	70023800	1	HEX HD CAPSCREW, M10X30, GR8.8	
14	70023267	1	HOUSING	
15	7026769	4	ROLLER BEARING	
16	7027271	1	OUTPUT SHAFT	
17		Ref	TAPERED ROLLER BEARING	
17	1320748	1	CUP	
17	1320754	1	CONE	
19	7027270	1	IDLER GEAR	
20		Ref	INPUT SHAFT	
20	70020493	1	INPUT GEAR	
20	70020036	1	SEAL	
21	70023266	1	HOUSING	
22	7026578	1	HEX NUT, M16	
23	7026577	1	SLEEVE	

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FIGURE 4-53. AIR CLEANER INSTALLATION



ART_1001129484-F

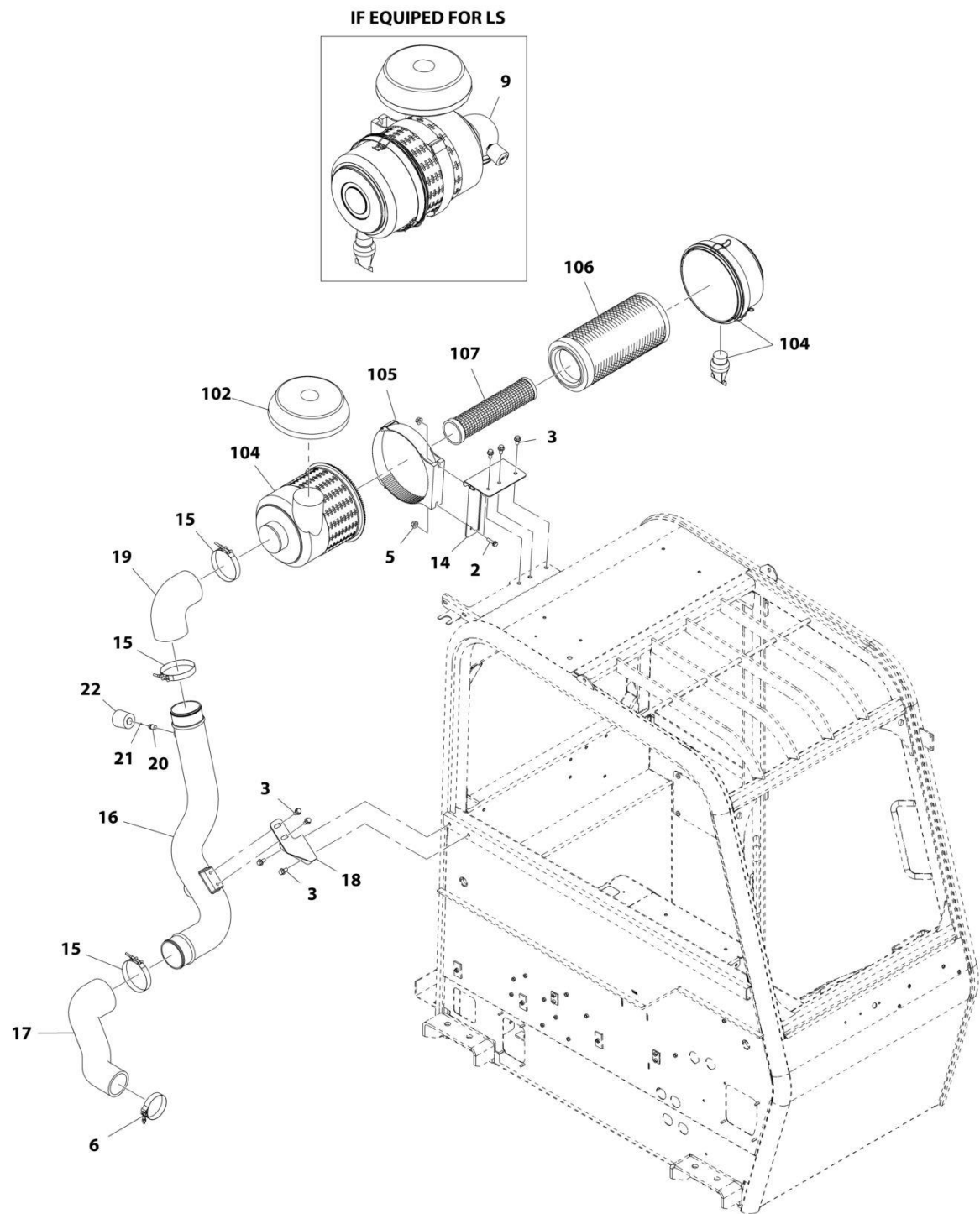
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-53. AIR CLEANER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129484	Ref	AIR CLEANER INSTALLATION, (not available to order, see items 2 thru 21 for service)	F
2	0811606	7	FLANGE SCREW, 3/8-16X3/4	D
4	4811700	4	WASHER, M6	
5	8303544	4	HEX HD CAPSCREW, M6X20, GR8.8, (torque to 2.9 lb-ft/.3 Nm)	
6	8405305	1	T-BOLT CLAMP, 3.38 ID	
8	80933367	3	BAND CLAMP	
11	91563129	1	RESTRICTION INDICATOR, (torque to 15-20 lb-ft/1.7-2.3 Nm)	
16	1001132110	1	AIR FILTER, (includes items 101 thru 106)	
17	1001165357	1	REDUCTION ELBOW	
18	1001161231	1	AIR CLEANER SUPPORT BRACKET	
19	91563079	1	AIR INTAKE TUBE	
20	1001162379	1	AIR FILTER PIPE	
21	1001160987	1	BRACKET	
101	70024177	1	PRIMARY ELEMENT	
102	70024176	1	SAFETY ELEMENT	
103	70024318	1	COVER	
104	70024270	1	VACUATOR VALVE	
105	70024271	1	PRE-CLEANER	
106	70024841	1	MASS AIR FLOW SENSOR	

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FIGURE 4-54. AIR CLEANER INSTALLATION



ART_1001138706-E

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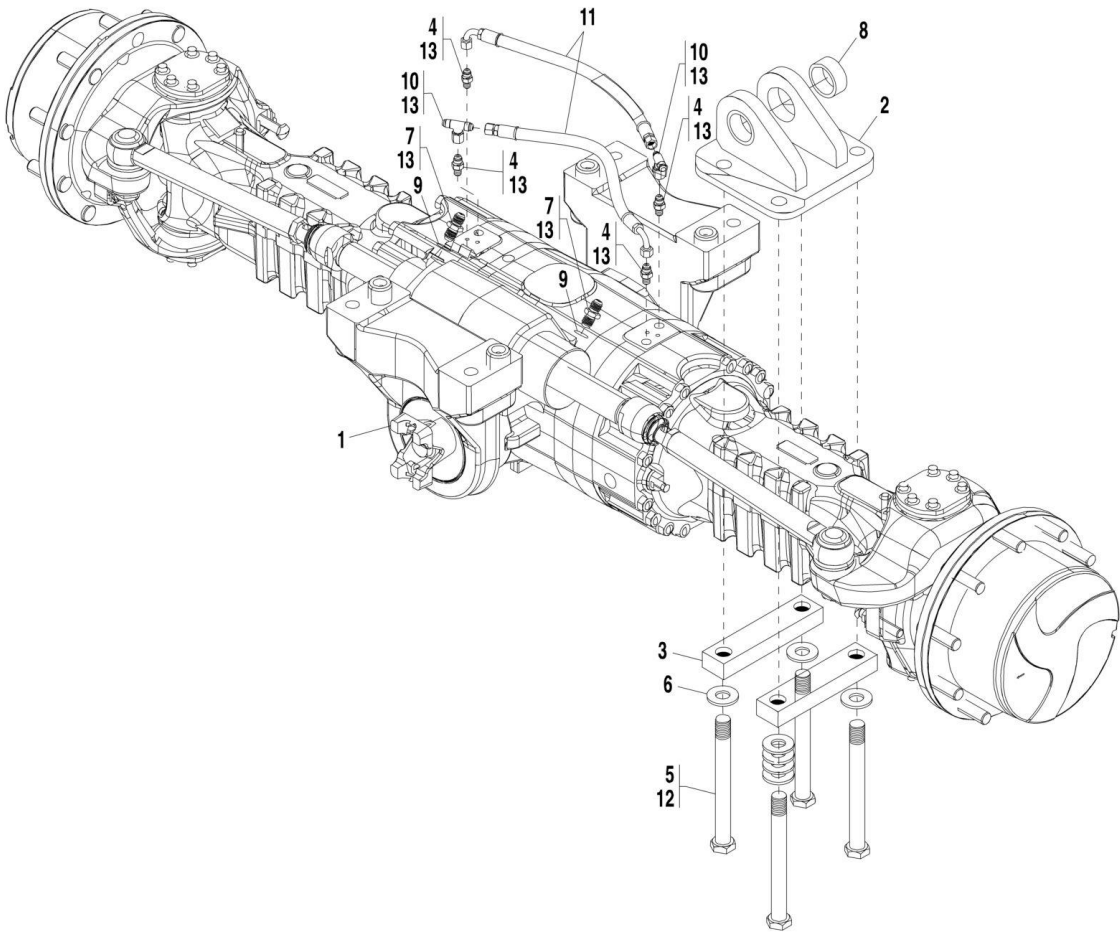
FIGURE 4-54. AIR CLEANER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001138706	Ref	AIR CLEANER INSTALLATION, (not available to order, see items 1 thru 22 for service)	E
2	0811510	2	SCREW, 5/16-18X1-1/4	G
3	0811606	7	FLANGE SCREW, 3/8-16X3/4	
5	8310420	2	FLANGE NUT, 5/16-18	
6	8405305	1	T-BOLT CLAMP, 3.38 ID	
9	1001121278	1	AIR CLEANER, (includes items 102 thru 107)	
14	1001160930	1	BRACKET, AIR CLEANER	
15	80933367	3	BAND CLAMP	
16	1001162955	1	TUBE, AIR INTAKE	
17	1001162379	1	HOSE, AIR INTAKE	
18	1001160987	1	BRACKET, AIR INTAKE	
19	1001165357	1	HOSE	
20	1001176983	1	ADAPTER	
21	1001177201	1	FILTER	
22	1001180469	1	SENSOR	
102	70023532	1	RAIN CAP	
104	N.S.S.	1	COVER AND BODY ASSY	
105	70023534	1	MOUNTING BAND	
106	70023535	1	PRIMARY ELEMENT	
107	70023536	1	SECONDARY ELEMENT	

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FIGURE 5-1. FRONT AXLE ASSEMBLY



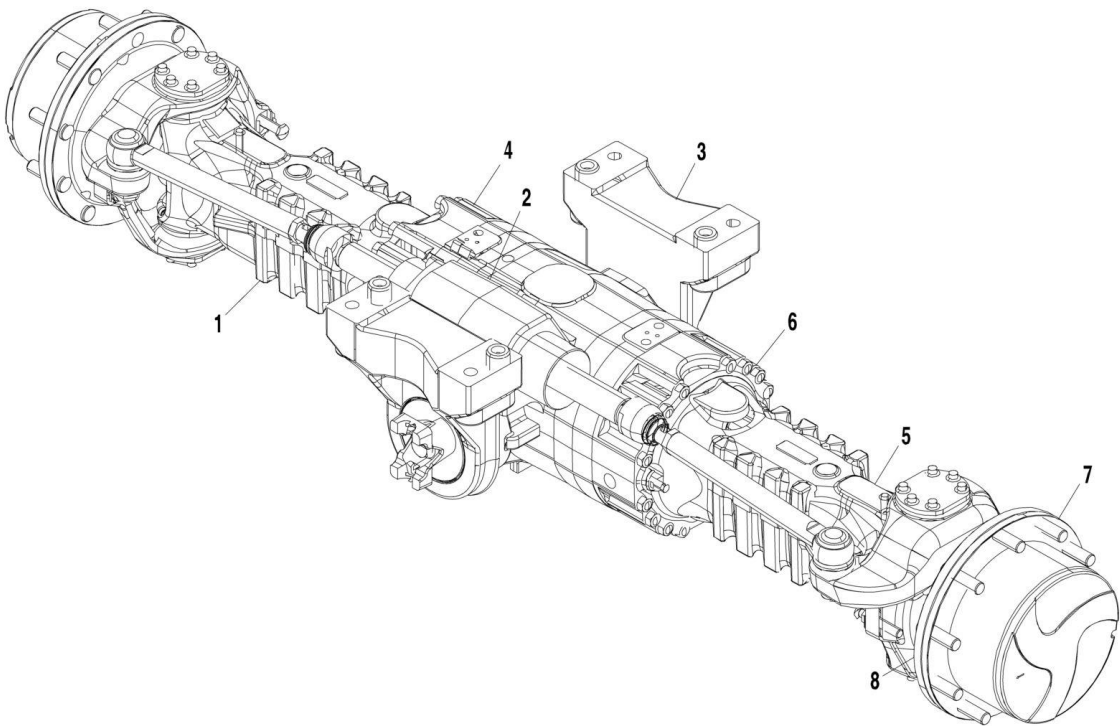
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FIGURE 5-1. FRONT AXLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515003	Ref	FRONT AXLE ASSY, (not available to order, see items 1 thru 11 for service) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	E
	1001097463	Ref	FRONT AXLE ASSY, (not available to order, see items 1 thru 11 for service) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	E
1		Ref	FRONT AXLE, (See FRONT AXLE for Breakdown)	
2	91515022	1	SWAY PIVOT ASSY, (includes item 8)	
3	91511105	2	RETAINER PLATE	
4	8770064	4	FITTING, M14X1.5 (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
4	2144605	4	CONNECTOR, (includes o-ring) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
5	77101143	4	HEX HD CAPSCREW, 1-8X10, (torque to 545-595 lb-ft)	
6	90027475	7	HARDENED FLAT WASHER, 1 IN	
7	2220373	2	CONNECTOR, (includes item 9) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
7	2110808	2	CONNECTOR, (includes o-ring) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
8	91143051	2	BUSHING	
9	3780140	2	O-RING	
10	2220579	2	SWIVEL NUT BRANCH TEE, 3/8 TUBE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
10	2170806	2	SWIVEL NUT BRANCH TEE (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
11	84719846	2	HOSE ASSY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
11	1001097466	2	HOSE ASSY (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
12	0100011	AR	LOCTITE 242	
13	0100075	AR	LOCTITE 545	

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FIGURE 5-2. FRONT AXLE (Prior to SN 0160048624)



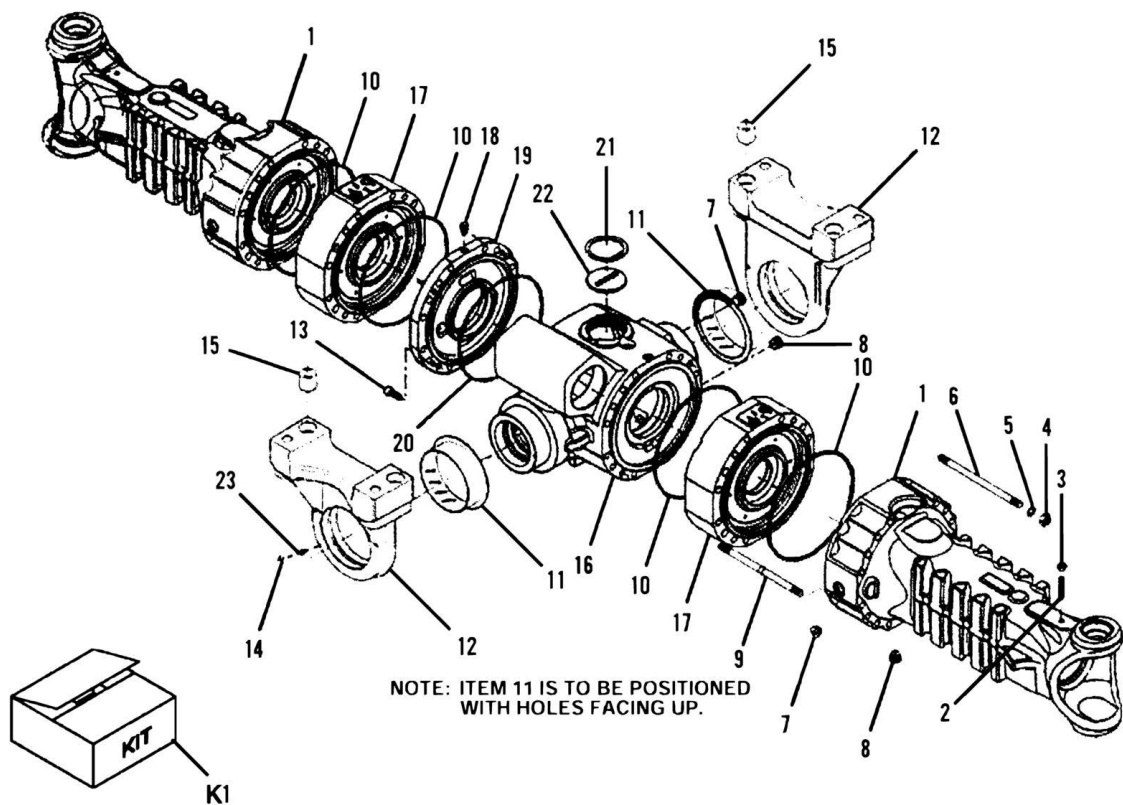
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FIGURE 5-2. FRONT AXLE (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91513036	1	FRONT AXLE, (includes all items)	A
		Ref	AXLE HOUSING ASSY, (See FRONT AXLE HOUSING ASSEMBLY for Breakdown)	
2		Ref	STEERING COMPONENTS, (See FRONT STEERING COMPONENTS for Breakdown)	
3		Ref	BEVEL GEAR SET, (See FRONT GEAR COMPONENTS for Breakdown)	
4		Ref	DIFFERENTIAL, (See FRONT DIFFERENTIAL for Breakdown)	
5		Ref	DOUBLE JOINT, (See FRONT DOUBLE JOINT for Breakdown)	
6		Ref	BRAKES, (See FRONT BRAKES for Breakdown)	
7		Ref	WHEEL HUB, (See FRONT WHEEL HUB for Breakdown)	
8		Ref	REDUCTION GEARS, (See FRONT REDUCTION GEARS for Breakdown)	

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FIGURE 5-3. FRONT AXLE HOUSING ASSEMBLY (Prior to SN 0160048624)



PY4850

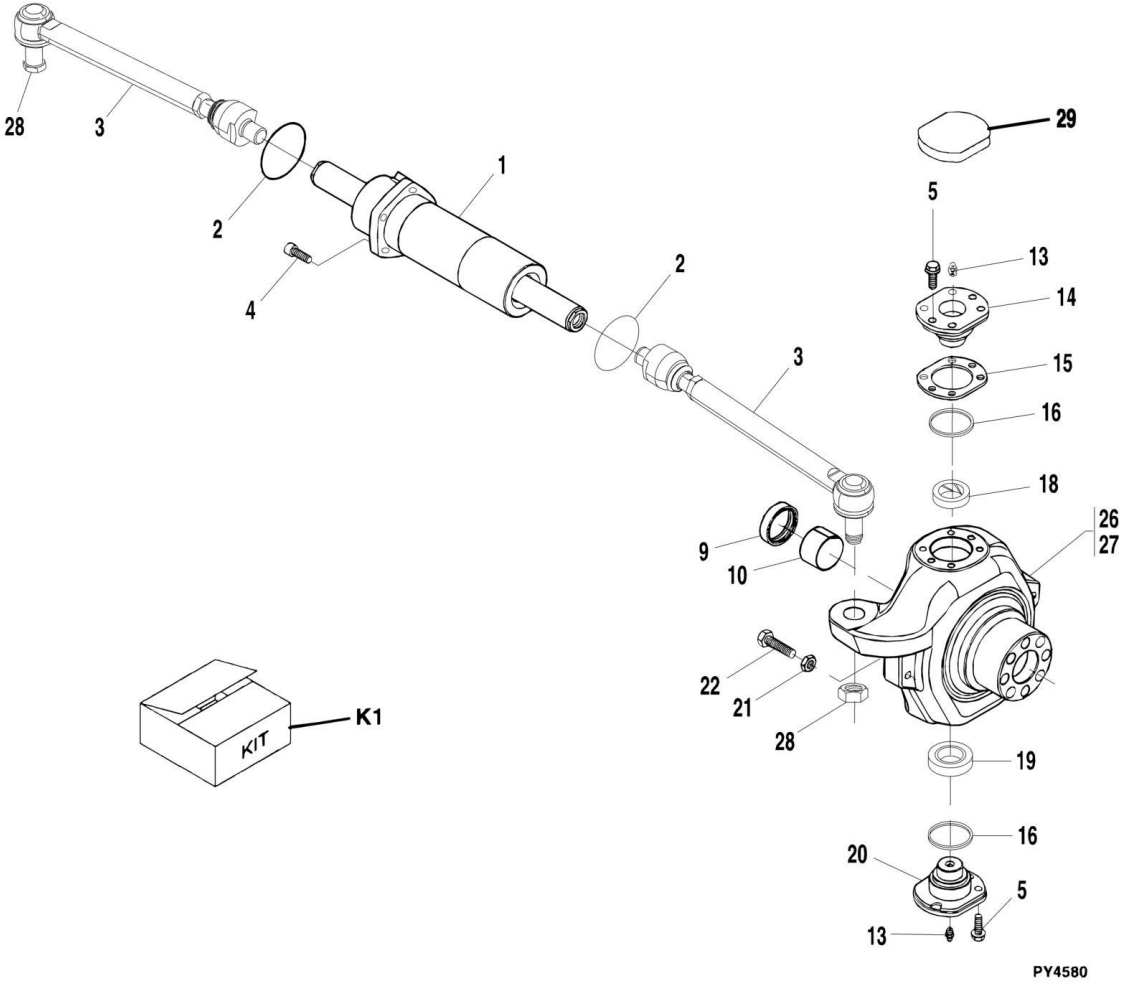
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FIGURE 5-3. FRONT AXLE HOUSING ASSEMBLY (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514080	2	AXLE CASE	A
2	91514081	2	BOLT	
3	91514082	2	NUT	
4	91514083	32	NUT	
5	91514084	32	WASHER	
6	91514085	24	STUD	
7	91514087	3	PLUG	
8	70021177	3	MAGNET PLUG	
9	91514088	8	STUD	
10	91514089	4	O-RING	
11	91514090	2	THRUST BUSHING	
12	7029291	2	SUPPORT	
13	91514101	4	BOLT	
14	80204117	2	PLUG	
15	7029290	4	REDUCTION BUSHING	
16	91514100	1	HOUSING, (Prior to Axle SN FITA714988)	
16	7029289	1	HOUSING, (Axle SN FITA714988 to Present)	
17		Ref	INTERMEDIATE COVER, (See FRONT BRAKES for Breakdown)	
18	91474512	1	VENT	
19	7029288	1	INTERMEDIATE COVER	
20	80204002	1	O-RING	
21	80204005	1	CIRCLIP	
22	91514098	1	PLUG	
23	91514099	2	GREASE FITTING	
K1	7029292	2	SUPPORT ASSY, (includes items 11, 12, 14, 15 & 23)	

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FIGURE 5-4. FRONT STEERING COMPONENTS (Prior to SN 0160048624)



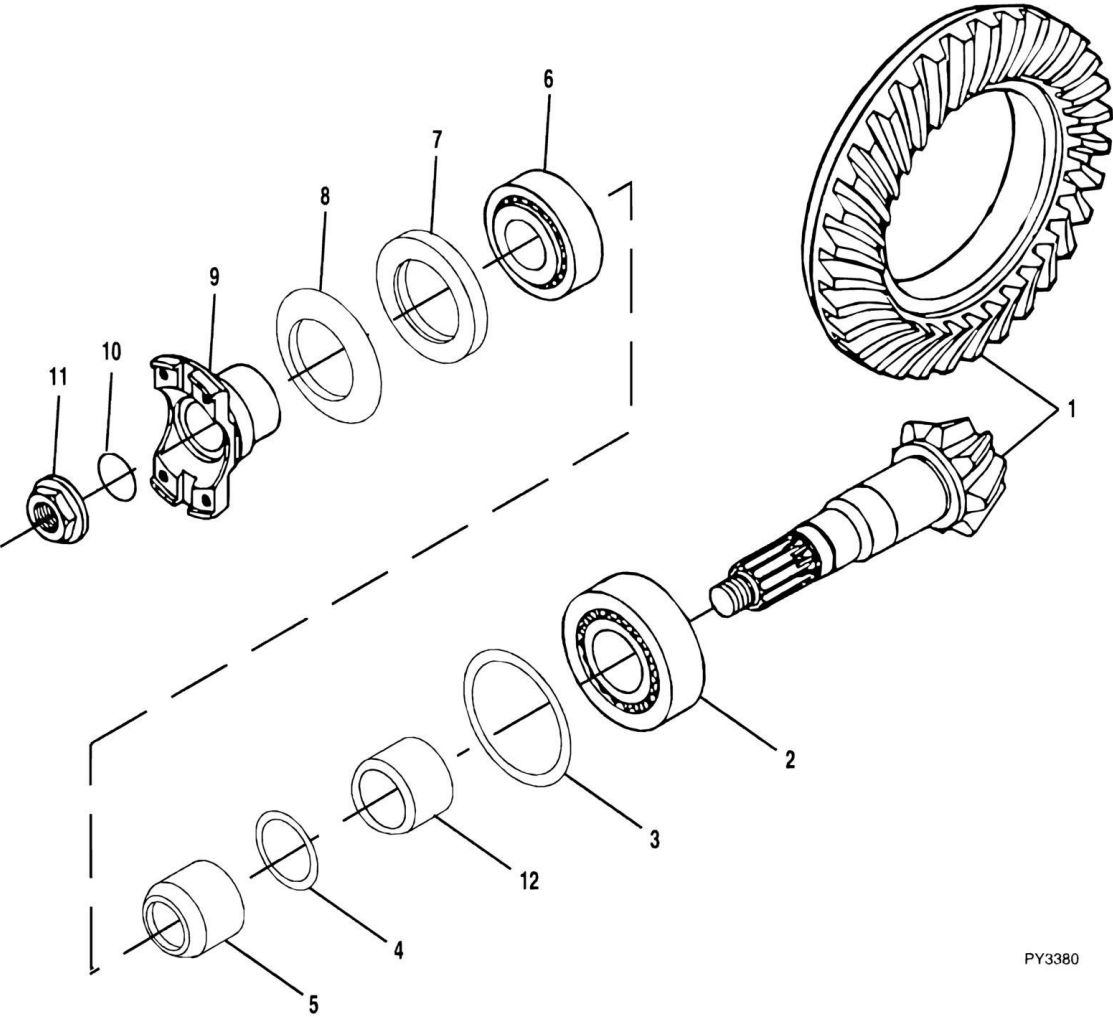
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FIGURE 5-4. FRONT STEERING COMPONENTS (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514104	NLA	CYLINDER, (Prior to Axle SN EITA716066), (no longer available, use 7026490)	A
1	91514255	1	SEAL KIT	
1	7026490	1	CYLINDER, (Axle SN EITA716066 to Present)	
1	7029127	1	SEAL KIT	
2	80204143	2	O-RING	
3	91514219	2	TIE ROD, (includes item 28), (Prior to Axle SN CITA718597)	
3	7029293	2	TIE ROD, (includes item 28), (Axle SN CITA718597 to Present)	
4	80204144	5	CYLINDER BOLT	
5	91514123	24	BOLT	
9	91514110	2	SEAL, (Prior to Axle SN FITA726779)	
9	7028718	2	SEAL, (Axle SN FITA726779 to Present)	
10	91514111	2	THRUST BUSHING	
13	91514099	4	GREASE FITTING	
14	91514112	2	PIVOT PIN, (includes item 13)	
15	91514113	2	SHIM	
15	91514114	2	SHIM	
15	91514115	2	SHIM	
16	7028716	4	DUST EXCLUDER	
18	7028714	2	OUTER RACE	
19	91514095	2	BEARING	
20	7028715	2	PIVOT PIN, (includes items 16 & 19)	
21	Kit	4	NUT	
22	Kit	4	BOLT	
26	7029294	1	STEERING CASE, RH	
27	7029295	1	STEERING CASE, LH	
28	70022773	2	LOCKNUT	
29	91474524	2	COVER	
K1	7028733	4	STEERING ADJUST BOLT KIT, (includes items 21 & 22)	

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FIGURE 5-5. FRONT GEAR COMPONENTS (Prior to SN 0160048624)



PY3380

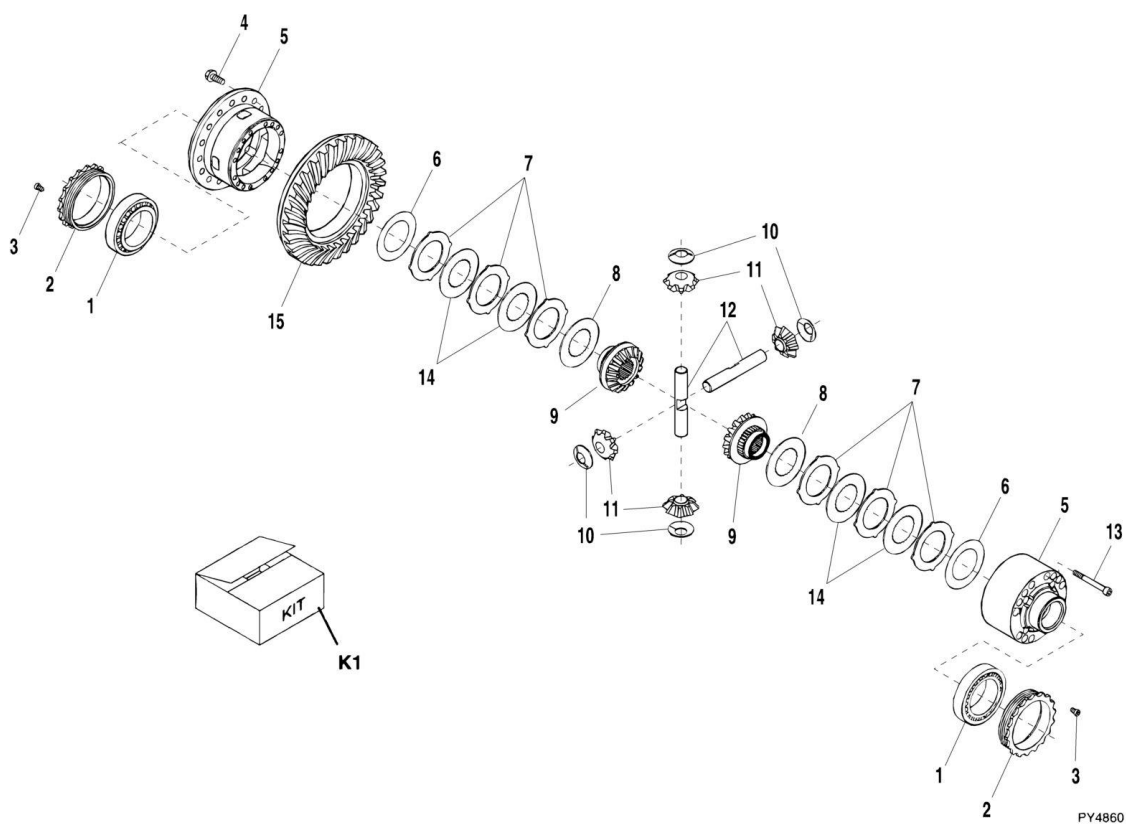
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FIGURE 5-5. FRONT GEAR COMPONENTS (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514124	1	BEVEL GEAR SET	
2	80204035	1	TAPER ROLLER BEARING	
3	80204049	1	SHIM	
3	80204050	1	SHIM	
3	80204051	1	SHIM	
3	80204052	1	SHIM	
4	70022136	1	SPACER, 5.000mm, (as required), (Prior to Axle SN KITA723237), (replace items 4, 5 & 12 together as they are not interchangeable with prior design)	
4	70022137	1	SPACER, 5.025mm, (as required)	
4	70022138	1	SPACER, 5.050mm, (as required)	
4	70022139	1	SPACER, 5.075mm, (as required)	
5	70022140	1	SPACER, (Prior to Axle SN KITA723237), (replace items 4, 5 & 12 together as they are not interchangeable with prior design)	
6	80204048	1	TAPER ROLLER BEARING	
7	80204047	1	SEAL	
8	91514130	1	COVER PLATE	
9	91514131	1	FLANGE	
10	80204044	1	O-RING	
11	80204043	1	NUT	
12	70022126	1	SPACER, 60.5X50X11.8mm, (as required)	
12	70022127	1	SPACER, 60.5X50X11.9mm, (as required)	
12	70022128	1	SPACER, 60.5X50X12.0mm, (as required)	
12	70022129	1	SPACER, 60.5X50X12.1mm, (as required)	
12	70022130	1	SPACER, 60.5X50X12.2mm, (as required)	
12	70022131	1	SPACER, 60.5X50X12.3mm, (as required)	
12	70022132	1	SPACER, 60.5X50X12.4mm, (as required)	
12	70022133	1	SPACER, 60.5X50X12.5mm, (as required)	
12	70022134	1	SPACER, 60.5X50X12.6mm, (as required)	
12	70022135	1	SPACER, 60.5X50X12.7mm, (as required)	

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FIGURE 5-6. FRONT DIFFERENTIAL (Prior to SN 0160048624)



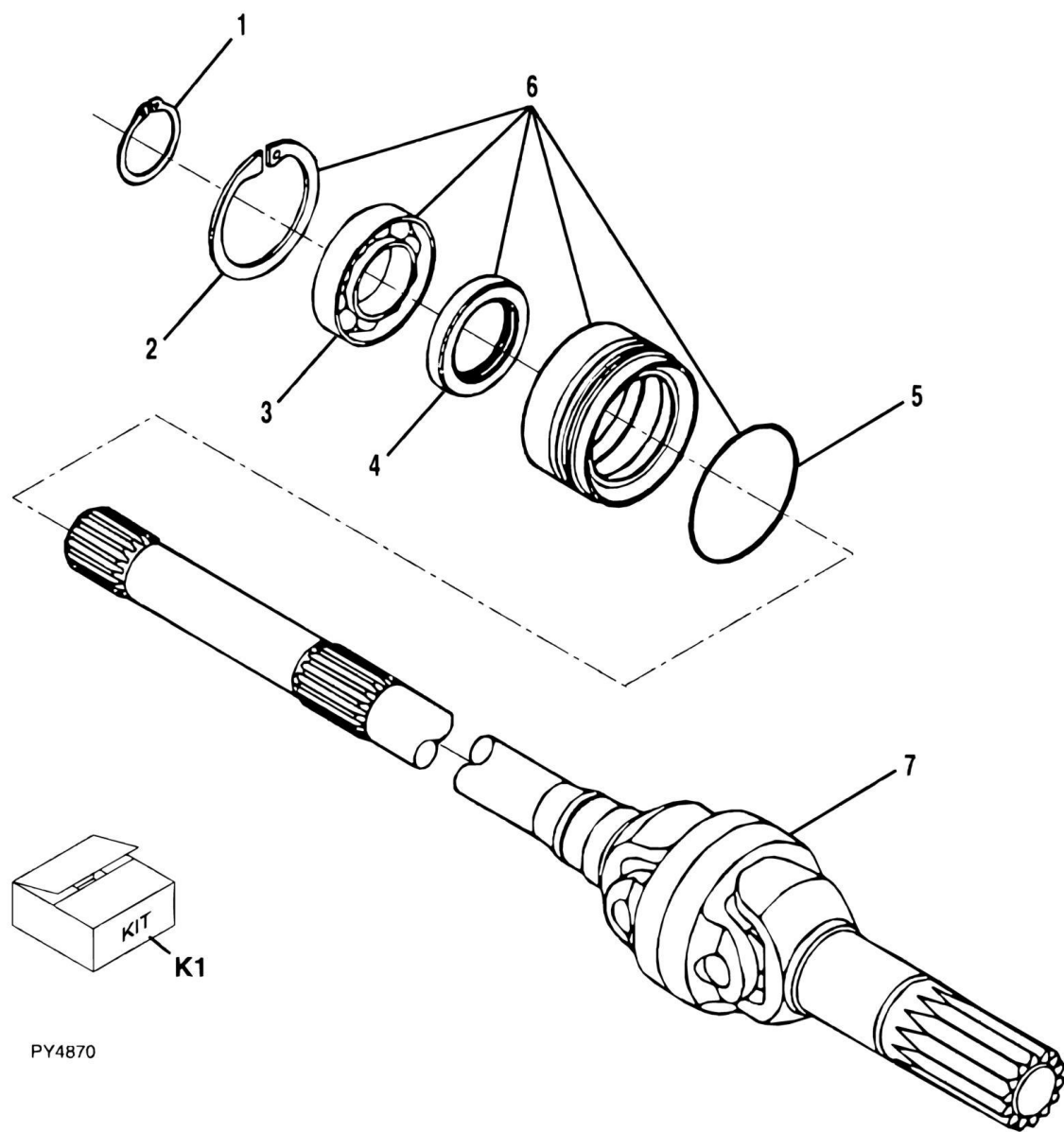
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FIGURE 5-6. FRONT DIFFERENTIAL (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204033	2	TAPER ROLLER BEARING	
2	91514133	2	RING NUT	
3	91514134	2	CYLINDER BOLT	
4	91514123	16	BOLT	
5	91514135	NLA	DIFFERENTIAL CARRIER, (Prior to Axle SN NITA738304), (no longer available, order items 5, 6, 7, 12 & 13 for replacement)	
5	70024004	1	DIFFERENTIAL CARRIER, (Axle SN NITA738304 to Present)	
6	91514136	2	SHIM, (Prior to Axle SN NITA738304)	
6	91514137	2	SHIM, (Prior to Axle SN NITA738304)	
6	91514138	2	SHIM, (Prior to Axle SN NITA738304)	
6	70023496	2	CLUTCH DISC, (Axle SN NITA738304 to Present)	
7	91514139	10	DISC	
8	91514140	2	DISC	
9	91514141	2	DIFFERENTIAL SIDE GEAR	
10	80204026	4	FRICTION WASHER	
11	80204025	4	DIFFERENTIAL PINION	
12	91514142	NLA	PIN, (Prior to Axle SN NITA738304), (no longer available, order items 5, 6, 7, 12 & 13 for replacement)	
12	70023490	2	DIFFERENTIAL SHAFT, (Axle SN NITA738304 to Present)	
13	91514143	16	BOLT	
14	91514144	8	DISC	
15		Ref	BEVEL GEAR, (See FRONT GEAR COMPONENTS for Breakdown)	
K1	91514145	Ref	DIFFERENTIAL KIT, (Prior to Axle SN NITA738304), (includes items 5 thru 14)	
K1	70024005	1	DIFFERENTIAL KIT, (Axle SN NITA738304 to Present), (includes Items 5 thru 14)	

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FIGURE 5-7. FRONT DOUBLE JOINT (Prior to SN 0160048624)



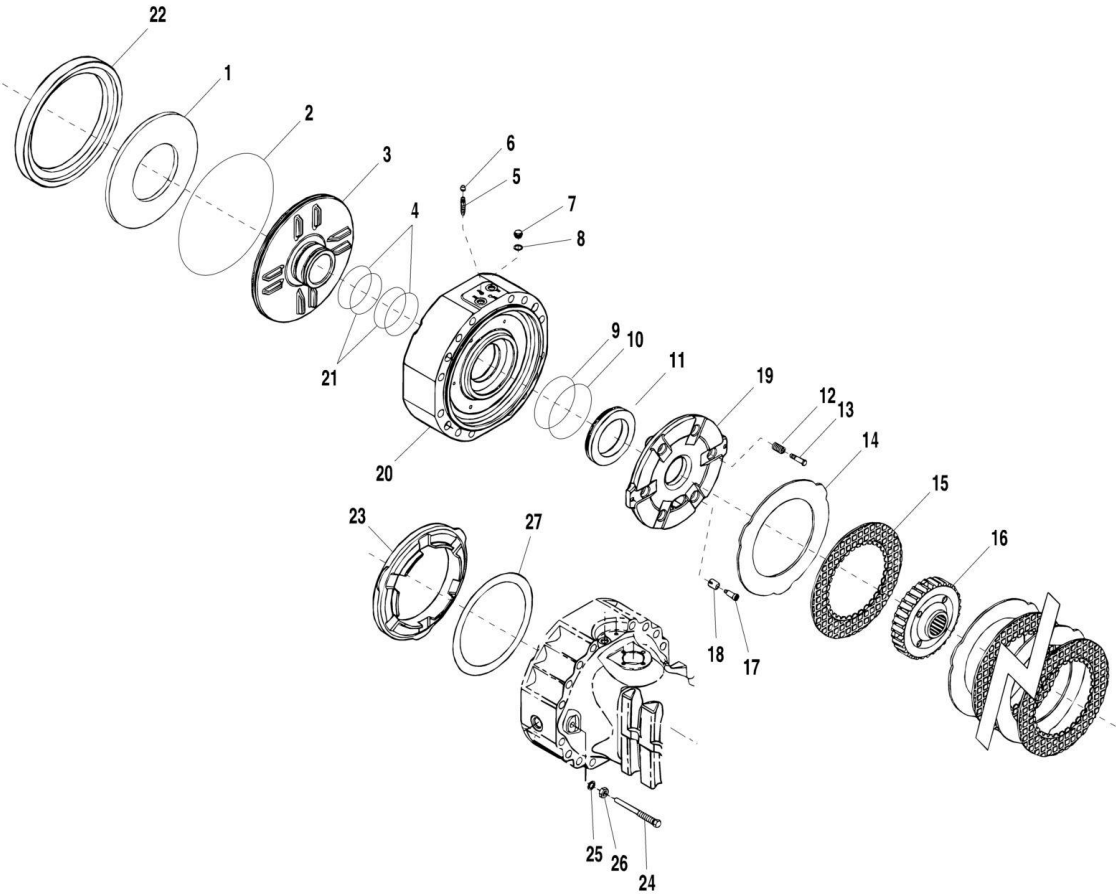
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FIGURE 5-7. FRONT DOUBLE JOINT (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204071	2	CIRCLIP	
2	80204005	2	CIRCLIP	
3	91514146	2	BALL BEARING	
4	91514147	2	SEAL	
5	91514148	2	O-RING	
6	91514149	2	REDUCTION BUSHING, (includes items 2, 3, 4 & 5)	
7	7029296	2	JOINT AND SHAFT ASSY	
K1	70021615	2	CROSS KIT, (includes circlips)	

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FIGURE 5-8. FRONT BRAKES (Prior to SN 0160048624)



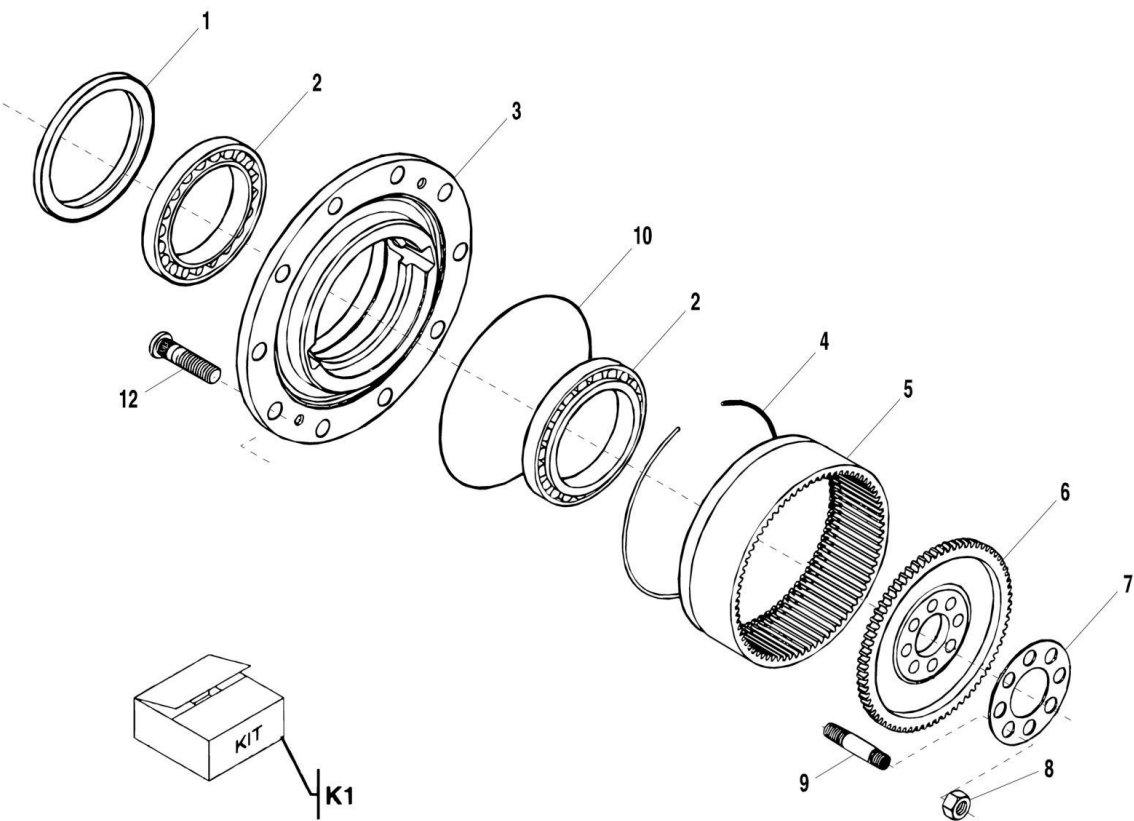
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FIGURE 5-8. FRONT BRAKES (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514151	2	SPRING	A
2	91514089	2	O-RING	
3	91514152	2	PISTON	
4	91514153	4	BACK-UP RING	
5	80204281	4	BLEEDING BOLT	
6	80204117	4	PLUG	
7	91514154	4	BOLT	
8	91514155	4	SEAL WASHER	
9	91514156	2	O-RING	
10	91514157	2	BACK-UP RING	
11	91514158	2	PISTON	
12	91514159	6	SPRING	
13	91514160	6	ADJUSTING BOLT	
14	91514161	6	INTERMEDIATE BRAKE DISC	
15	7029299	6	BRAKE DISC, (Prior to Axle SN GITA742987)	
15	7029735	6	BRAKE DISC, (Axle SN GITA742987 to Present)	
16	91514163	2	SELECTOR, (Prior to Axle SN GITA742987)	
16	7029734	2	REDUCTION BUSHING, (Axle SN GITA742987 to Present)	
17	7029789	6	ADJUSTING BOLT	
18	91514165	6	SPRING	
19	91514166	2	INTERMEDIATE BRAKE DISC	
20	91514096	2	INTERMEDIATE COVER	
21	91514167	4	O-RING	
22	91514168	2	SPACER	
23	7029298	2	SPACER	
24	91514170	4	BOLT	
25	80204108	4	LOCK WASHER	
26	80204060	4	NUT	
27	91514171	2	SHIM, 0.2mm	
27	91514172	2	SHIM, 0.3mm	
27	91514173	2	SHIM, 0.5mm	

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FIGURE 5-9. FRONT WHEEL HUB (Prior to SN 0160048624)



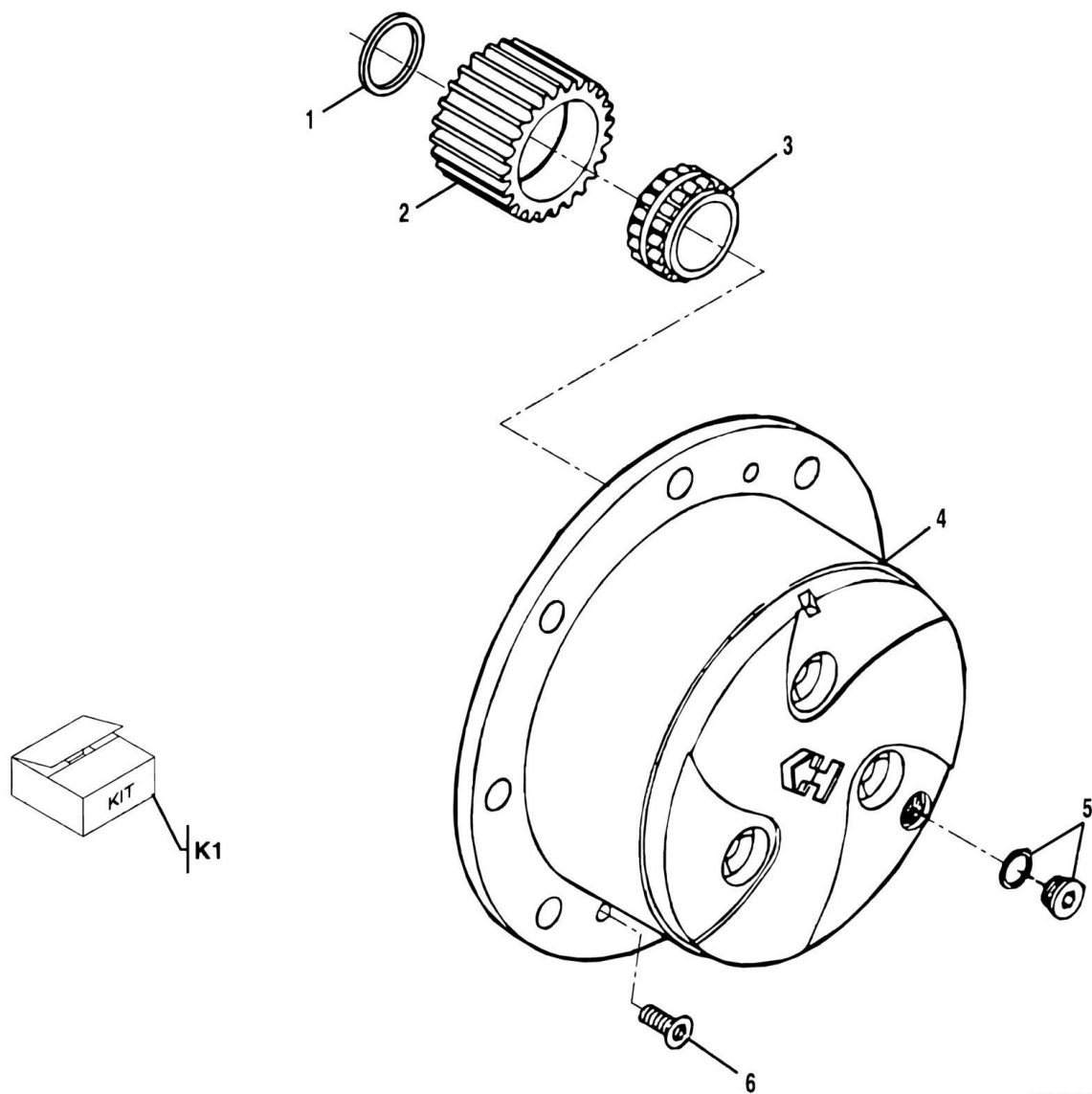
SECTION 5 - DRIVE TRAIN

FIGURE 5-9. FRONT WHEEL HUB (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7029300	2	SEAL	
2	80204076	4	BEARING	
3	91514174	2	WHEEL HUB	
4	91514175	2	CIRCLIP	
5	91514176	2	RING GEAR	
6	91514177	2	GEAR SUPPORT	
7	91514178	2	LOCKING PLATE	
8	91514179	16	NUT	
9	91514180	16	STUD	
10	91514181	2	O-RING	
12	80214120	NLA	Stud, Wheel (Use PN 70030365)	
12	70030365	20	Stud, Wheel	
K1	70024146	1	RING GEAR SUPPORT KIT (includes items 4, 5 & 6)	

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FIGURE 5-10. FRONT REDUCTION GEARS (Prior to SN 0160048624)



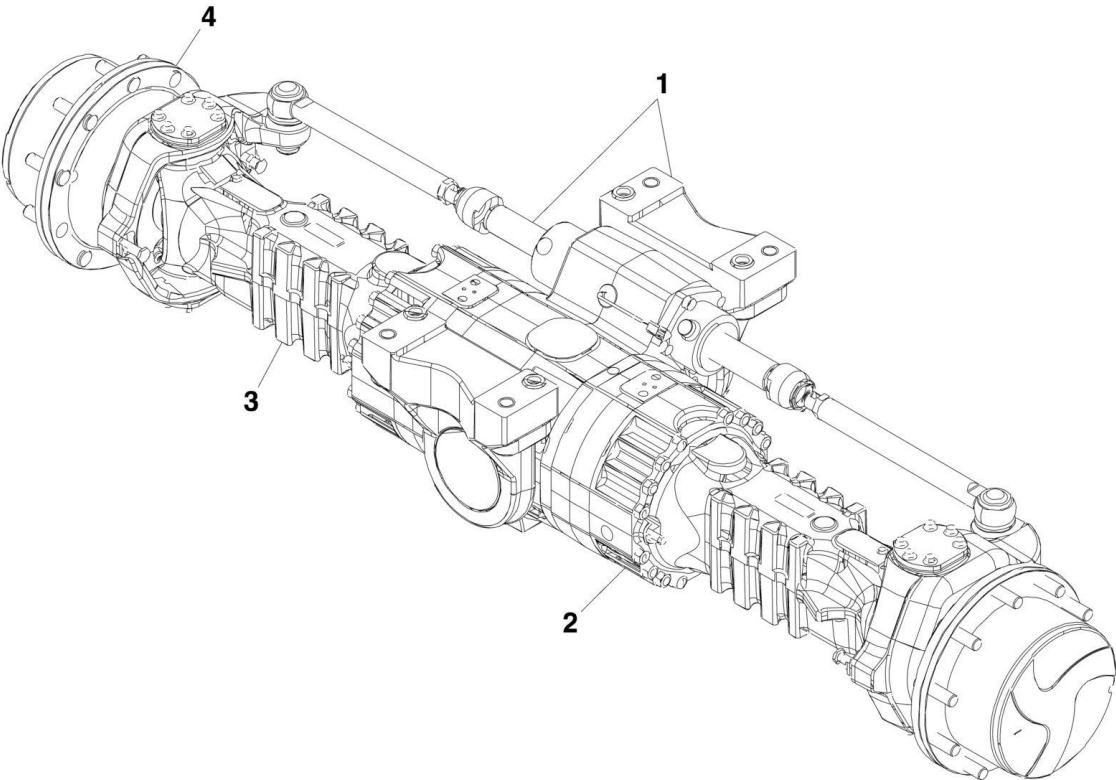
SECTION 5 - DRIVE TRAIN

FIGURE 5-10. FRONT REDUCTION GEARS (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514184	6	CIRCLIP	A
2	91514185	6	PLANETARY GEAR	
3	91514186	6	BEARING	
4	7026731	2	PLANETARY GEAR CARRIER	
5	91514188	2	PLUG	
6	91514189	4	COUNTERSUNK BOLT	
K1	70025972	1	PLANETARY CARRIER KIT (includes items 1 thru 4)	

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FIGURE 5-11. FRONT AXLE (SN 0160048624 to Present)



ART_1001136367-D

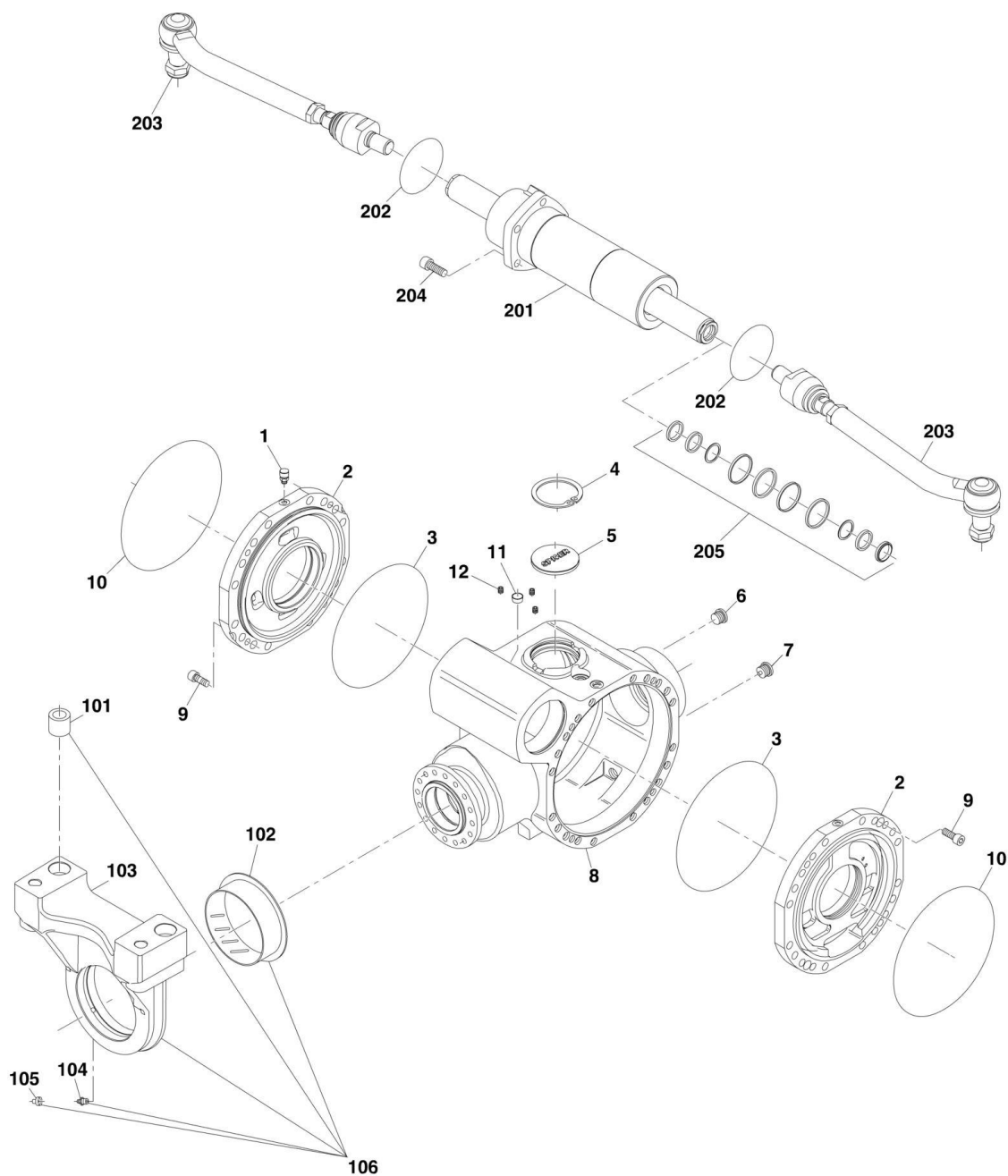
SECTION 5 - DRIVE TRAIN

FIGURE 5-11. FRONT AXLE (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001136367	1	FRONT AXLE, (includes all items)	D
		Ref	CENTRAL HOUSING AND STEERING, (See Separate Breakdown in this Section)	
2		Ref	DIFFERENTIAL, (See Separate Breakdown in this Section)	
3		Ref	HUB REDUCTION, (See Separate Breakdown in this Section)	
4		Ref	BRAKES, (See Separate Breakdown in this Section)	

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FIGURE 5-12. CENTRAL HOUSING AND STEERING (SN 0160048624 to Present)



ART_1001136367_1-D

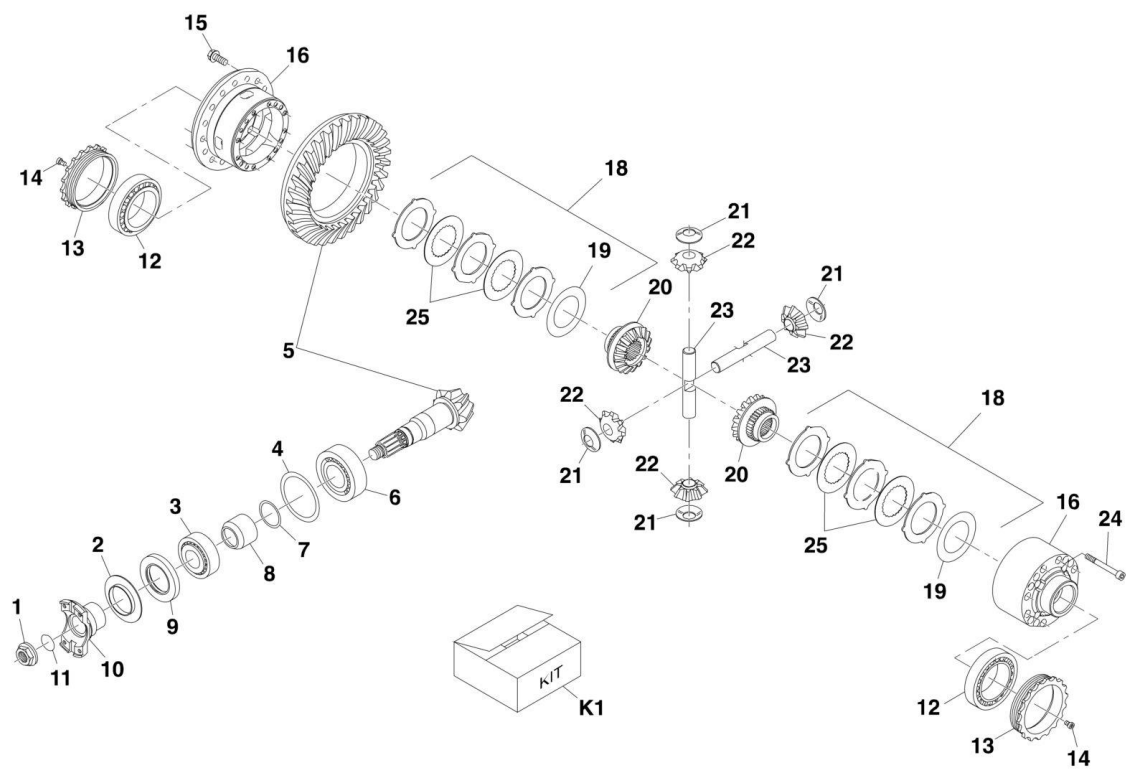
SECTION 5 - DRIVE TRAIN

FIGURE 5-12. CENTRAL HOUSING AND STEERING (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474512	1	VENT	
2	7029288	1	INTERMEDIATE COVER	
3	80204002	1	O-RING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	91514087	1	PLUG	
7	70021177	1	MAGNET PLUG	
8	7029289	1	HOUSING	
9	91514101	4	BOLT	
10	91514089	2	O-RING	
11	7029307	1	PLUG	
12	7029306	3	BOLT	
101	7029290	4	BUSHING	
102	91514090	2	BUSHING	
103	7029291	2	SUPPORT	
104	91514099	2	GREASE FITTING	
105	80204117	2	PLUG	
106	7029292	2	SUPPORT ASSY, (includes items 101 thru 105)	
201	7026490	1	STEERING CYLINDER	
202	80204143	2	O-RING	
203	70021614	2	TIE ROD	
204	80204144	5	BOLT	
205	7029127	1	STEERING CYLINDER SEAL KIT	

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FIGURE 5-13. DIFFERENTIAL (SN 0160048624 to Present)



ART_1001136367_2-D

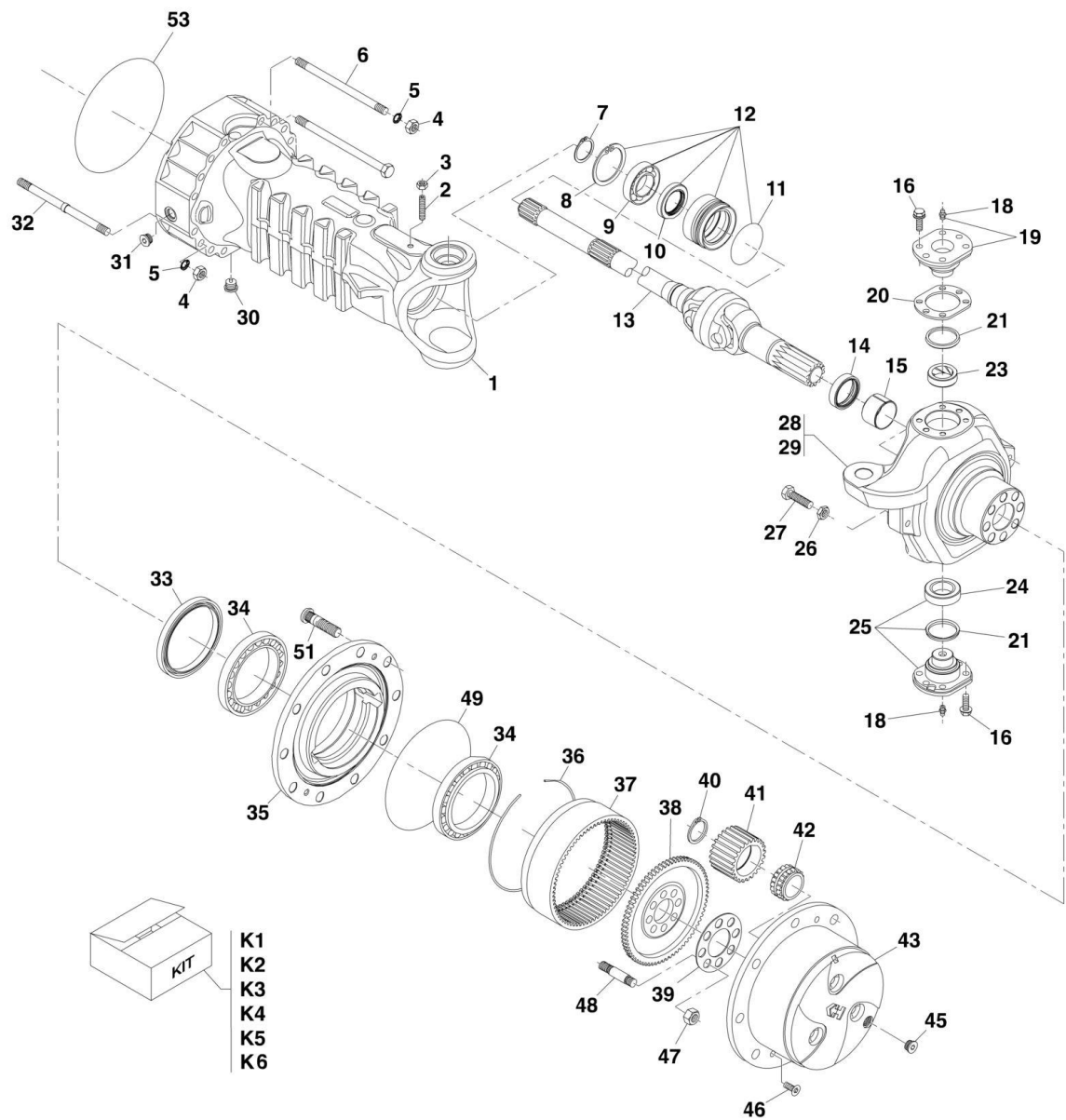
SECTION 5 - DRIVE TRAIN

FIGURE 5-13. DIFFERENTIAL (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204043	1	NUT	
2	91514130	1	COVER PLATE	
3	80204048	1	TAPER ROLLER BEARINGS	
4	70023469	1	SHIM	
5	91514124	1	BEVEL GEAR SET	
6	80204035	1	TAPER ROLLER BEARING	
7	70023494	1	RING KIT	
8	70022140	1	SPACER	
9	70025887	1	SEAL	
10	91514131	1	FLANGE	
11	10725554	1	O-RING	
12	80204033	2	TAPER ROLLER BEARING	
13	91514133	2	RING NUT	
14	91514134	2	BOLT	
15	91514123	16	BOLT	
16	70024004	1	DIFFERENTIAL CARRIER	
18	70023496	2	CLUTCH DISC, (includes items 19 and 25)	
19	N.S.S.	2	DISC	
20	70025856	2	DIFFERENTIAL SIDE GEAR	
21	70023491	4	FRICTION WASHER	
22	70025339	4	DIFFERENTIAL PINION	
23	70023490	2	DIFFERENTIAL SHAFT	
24	91514143	15	BOLT	
25	N.S.S.	4	DISC	
K1	70024005	1	DIFFERENTIAL KIT, (includes items 16 thru 25)	

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FIGURE 5-14. HUB REDUCTION (SN 0160048624 to Present)



ART_1001136367_3-D

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FIGURE 5-14. HUB REDUCTION (SN 0160048624 to Present)

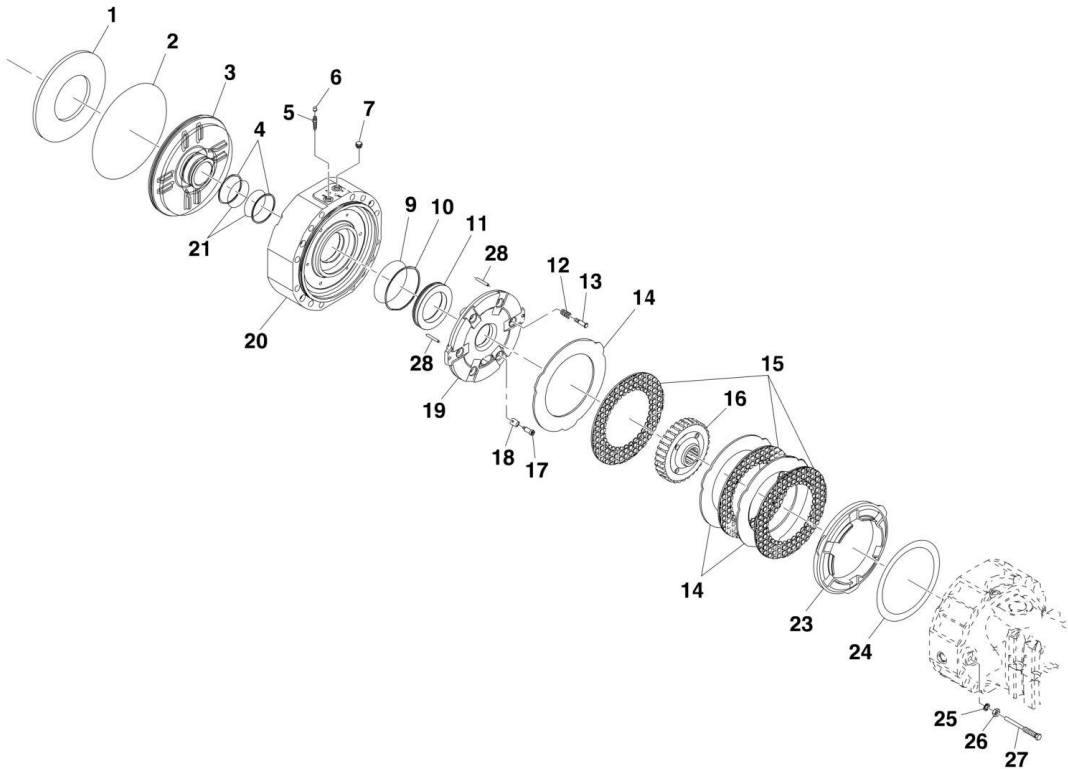
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	N.S.S.	2	AXLE CASE	
2	91514081	2	BOLT	
3	91514082	2	NUT	
4	91514083	8	NUT	
5	91514084	8	WASHER	
6	7029309	24	BOLT	
7	80204071	2	CIRCLIP	
8	80204005	2	CIRCLIP	
9	91514146	2	BALL BEARING	
10	91514147	2	SEAL	
11	91514148	2	O-RING	
12	91514149	2	REDUCTION BUSHING	
13	70024671	2	DOUBLE UNIVERSAL JOINT	
14	70025857	2	SEAL	
15	91514111	1	THRUST BUSHING	
16	91514123	24	BOLT	
18	91514099	2	GREASE FITTING	
19	91514112	2	PIVOT PIN	
20	70025561	1	SHIM KIT	
21	7028716	2	DUST EXCLUDER	
23	7028714	2	BUSHING	
24	91514095	2	BEARING	
25	7028715	2	PIVOT PIN	
26	80204065	4	NUT	
27	91514117	4	BOLT	
28	7029750	1	LH STEERING CASE	
29	7029295	1	RH STEERING CASE	
30	70021177	2	MAGNET PLUG	
31	91514087	2	PLUG	
32	70024851	8	STUD	
33	7029300	2	SEAL	
34	80204076	4	TAPER ROLLER BEARING	
35	91514174	2	WHEEL HUB	
36	91514175	2	CIRCLIP	
37	70024147	2	RING GEAR	
38	91514177	2	RING GEAR SUPPORT	
39	91514178	2	LOCKING PLATE	
40	91514184	6	SNAP RING	
41	91514185	6	PLANET GEAR	
42	91514186	6	BEARING	
43	7026731	2	PLANET GEAR CARRIER	
45	91514188	2	PLUG	
46	91514189	4	COUNTERSUNK BOLT	
47	91514179	16	NUT	
48	91514180	16	STUD	
49	91514181	2	O-RING	
51	80214120	20	WHEEL STUD	
53	91514089	2	O-RING	
K1	7029733	2	PLANET GEAR CARRIER KIT (includes items 40 thru 43)	
K2	7029750	1	LEFT STEERING CASE KIT (includes items 15 & 28)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K3	7029751	1	RIGHT STEERING CASE KIT (includes items 15 & 29)	
K4	7028733	4	STEERING ADJUST BOLT KIT (includes items 26 & 27)	
K5	70024146	2	RING GEAR SUPPORT KIT (includes items 36 thru 38)	
K6	70025972	2	PLANET & RING GEARS SUPPORT KIT (Includes Items 36 thru 38 & 40 thru 43)	

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FIGURE 5-15. BRAKES (SN 0160048624 to Present)



ART_1001136367_4-D

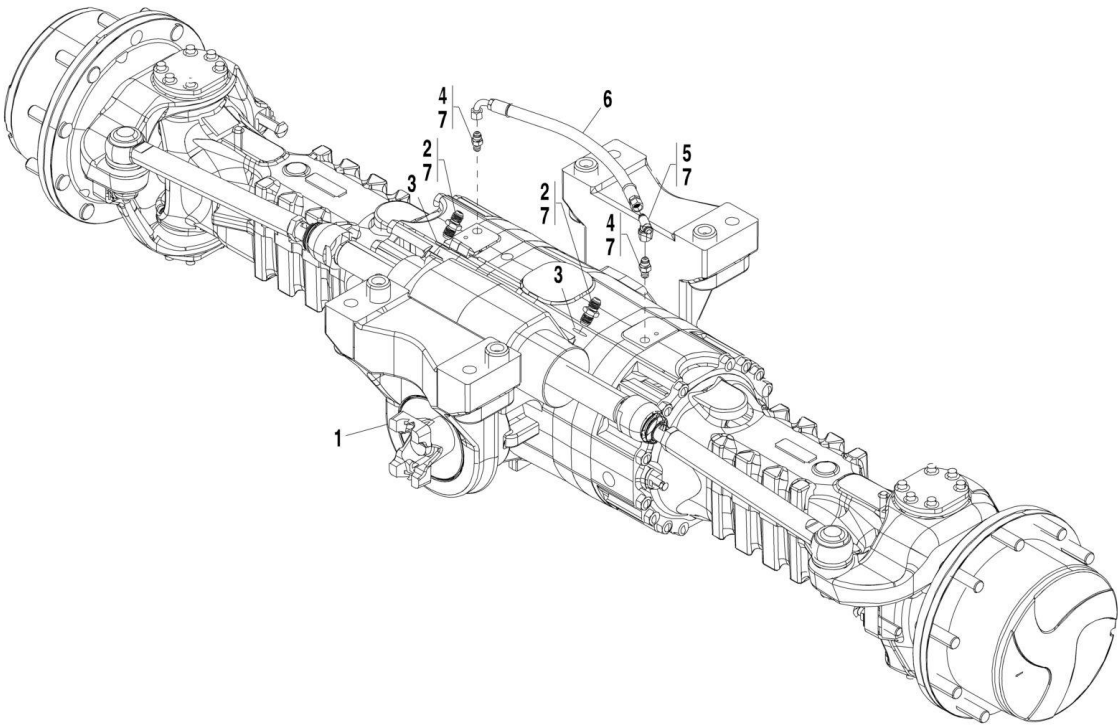
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FIGURE 5-15. BRAKES (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514151	2	SPRING	
2	91514089	2	O-RING	
3	91514152	2	PISTON	
4	91514153	4	BACKUP RING	
5	80204281	4	BLEEDING BOLT	
6	80204117	4	PLUG	
7	91514154	4	PLUG	
9	91514156	2	O-RING	
10	91514157	2	BACKUP RING	
11	91514158	2	PISTON	
12	91514159	6	SPRING	
13	7029789	6	ADJUSTING BOLT	
14	91514161	6	INTERMEDIATE BRAKE DISC	
15	7029735	6	BRAKE DISC	
16	7029734	2	REDUCTION BUSHING	
17	7029789	6	ADJUSTING BOLT	
18	91514165	6	SPRING	
19	70024849	2	DISC, INTERMEDIATE BRAKE	
20	70024848	2	COVER	
21	91514167	4	O-RING	
23	7029298	2	SPACER	
24	70025970	1	SHIM	
25	80204108	4	LOCKWASHER	
26	80204060	4	NUT	
27	70024213	4	BOLT	
28	70024215	4	DOWEL	

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FIGURE 5-16. REAR AXLE ASSEMBLY



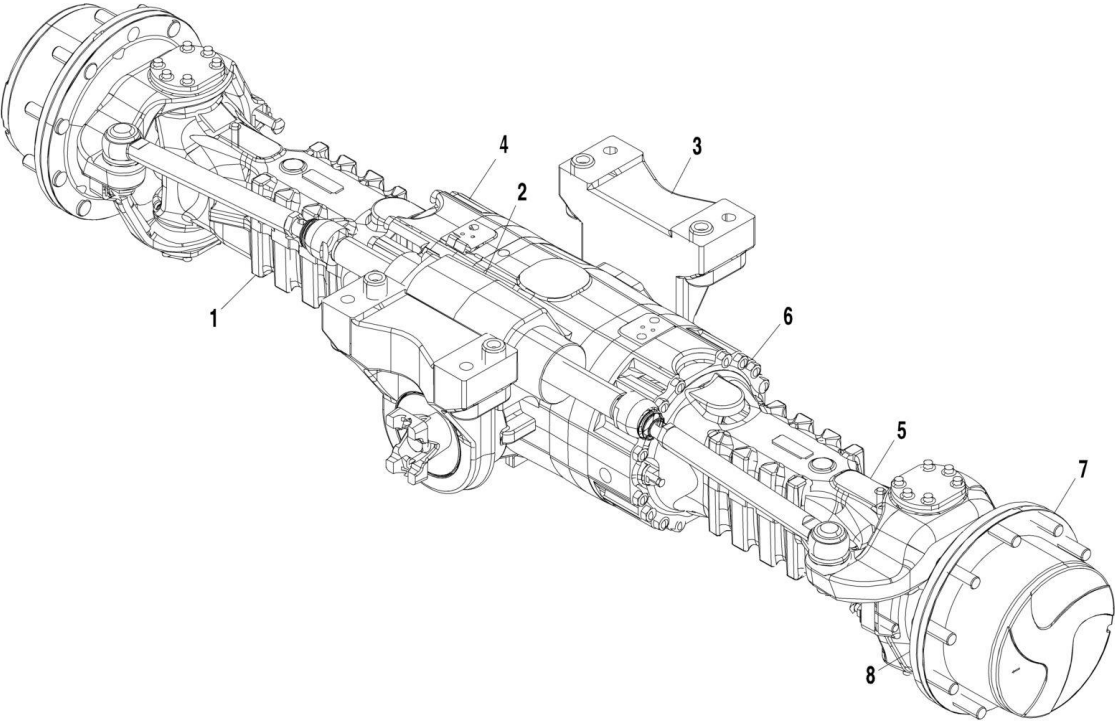
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FIGURE 5-16. REAR AXLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515004	Ref	REAR AXLE ASSY, (not available to order, see items 1 thru 7 for service) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	E
	1001097464	Ref	REAR AXLE ASSY, (not available to order, see items 1 thru 7 for service) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	E
1		Ref	REAR AXLE, (See REAR AXLE for Breakdown)	
2	2220373	2	CONNECTOR, (includes item 3) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
2	2110808	2	CONNECTOR, (includes o-ring) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
3	88591205	2	O-RING	
4	8770064	2	FITTING, M14X1.5 (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
4	2144605	2	CONNECTOR, (includes o-ring) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
5	2220579	1	SWIVEL NUT RUN TEE, 3/8 TUBE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
5	2170806	1	SWIVEL NUT RUN TEE, 3/8 TUBE (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
6	1001102506	1	HOSE ASSY (Prior to SN 0160035215)	
6	1001103647	1	HOSE ASSY (SN 0160035215 through 0160040674, Excluding 0160040468 and 0160040672)	
6	1001097466	1	HOSE ASSY (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
7	0100075	AR	LOCTITE 545	

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FIGURE 5-17. REAR AXLE



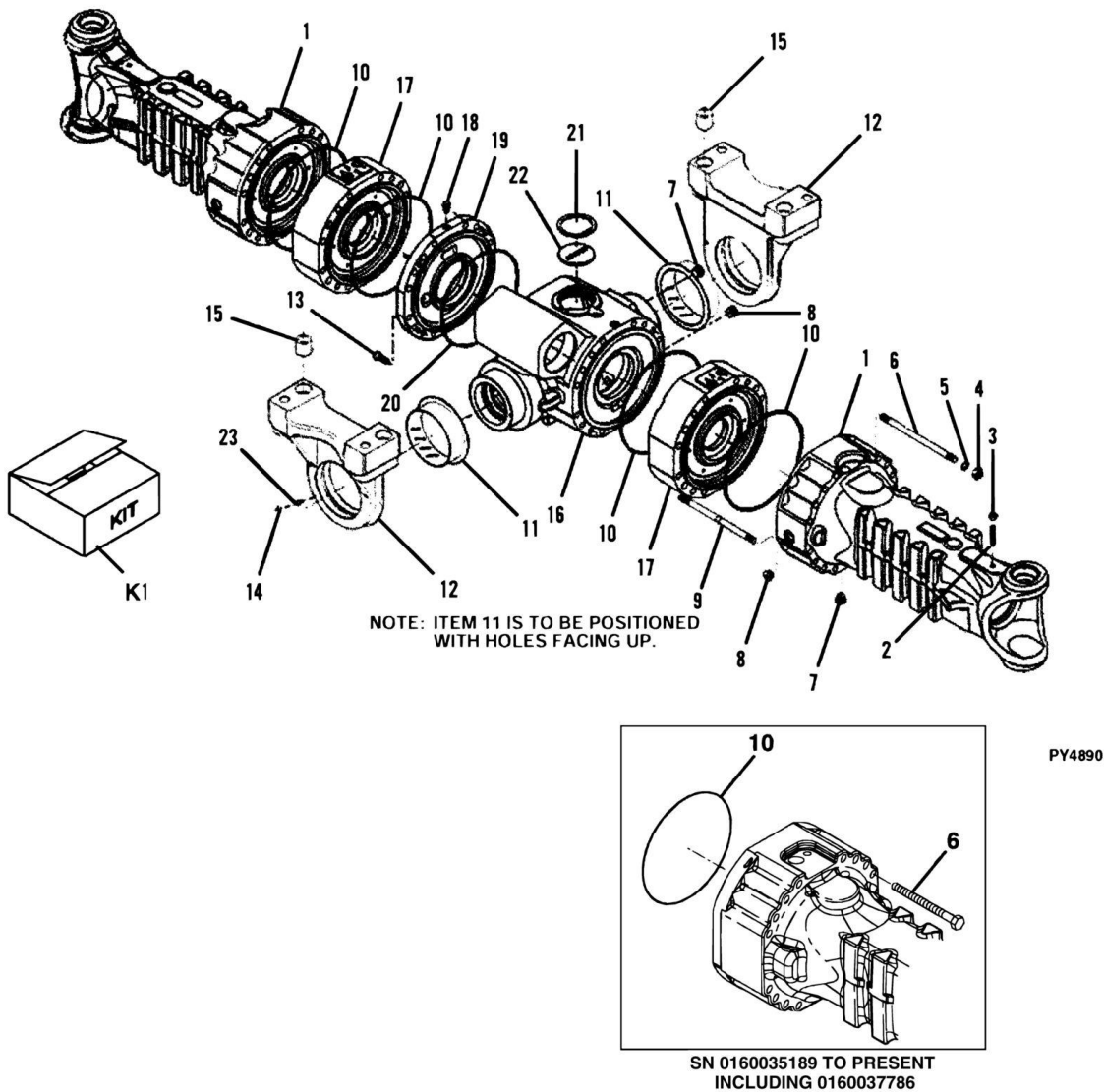
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FIGURE 5-17. REAR AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513037	1	REAR AXLE, (includes all items) (Prior to SN 0160035189, Excluding 0160035166)	C
	1001094200	1	REAR AXLE, (includes all items) (SN 0160035189 through 0160048624, Including 0160035166)	C
1		Ref	AXLE HOUSING ASSY, (See REAR AXLE HOUSING ASSEMBLY for Breakdown)	
2		Ref	STEERING COMPONENTS, (See REAR STEERING COMPONENTS for Breakdown)	
3		Ref	BEVEL GEAR SET, (See REAR GEAR COMPONENTS for Breakdown)	
4		Ref	DIFFERENTIAL, (See REAR DIFFERENTIAL for Breakdown)	
5		Ref	DOUBLE JOINT, (See REAR DOUBLE JOINT for Breakdown)	
6		Ref	BRAKES, (See REAR BRAKES for Breakdown)	
7		Ref	WHEEL HUB, (See REAR BRAKES for Breakdown)	
8		Ref	REDUCTION GEARS, (See REAR WHEEL HUB for Breakdown)	

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FIGURE 5-18. REAR AXLE HOUSING ASSEMBLY (Prior to SN 0160048624)



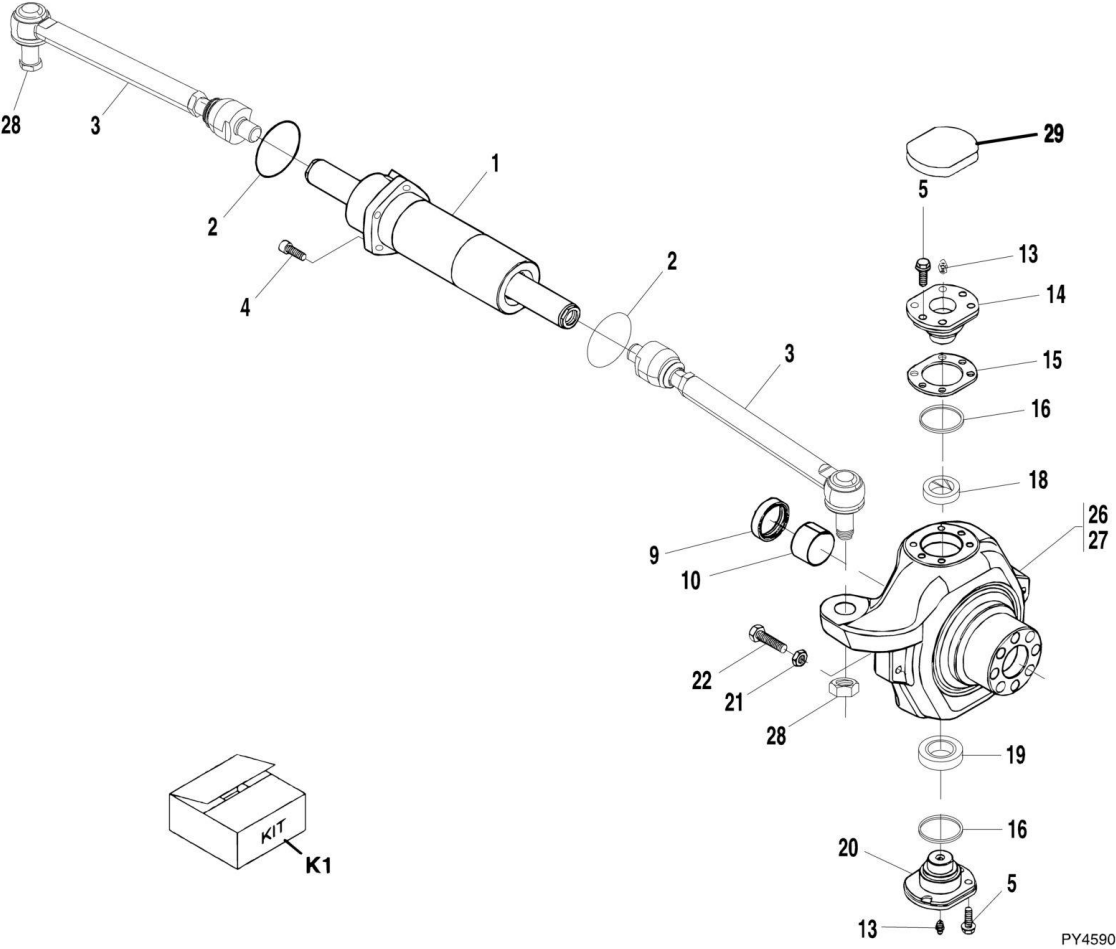
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FIGURE 5-18. REAR AXLE HOUSING ASSEMBLY (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514080	2	AXLE CASE (Prior to SN 0160035189, Excluding 0160035166)	
1	70022813	2	AXLE CASE (SN 0160035189 through 0160048624, Including 0160035166)	
2	91514081	2	BOLT	
3	91514082	2	NUT	
4	91514083	32	NUT (Prior to SN 0160035189, Excluding 0160035166)	
5	91514084	32	WASHER (Prior to SN 0160035189, Excluding 0160035166)	
6	91514085	24	STUD (Prior to SN 0160035189, Excluding 0160035166)	
6	70022814	8	HEX BOLT (SN 0160035189 through 0160048624, Including 0160035166)	
7	70021177	3	MAGNET PLUG	
8	91514087	3	PLUG	
9	91514088	8	STUD (Prior to SN 0160035189, Excluding 0160035166)	
10	91514089	4	O-RING	
11	91514090	2	THRUST BUSHING	
12	91514091	2	SUPPORT, (Prior to Axle SN FITA715001)	
12	7029291	2	SUPPORT, (Axle SN FITA715001 to Present)	
13	91514101	4	BOLT	
14	80204117	2	PLUG	
15	91514103	4	REDUCTION BUSHING, (Prior to Axle SN FITA715001)	
15	7029290	4	REDUCTION BUSHING, (Axle SN FITA715001 to Present)	
16	91514100	NLA	HOUSING, (Prior to Axle SN FITA715001), (no longer available; use 7029289 along with item 7029292)	
16	7029289	1	HOUSING, (Axle SN FITA715001 to Present)	
17		Ref	INTERMEDIATE COVER, (See REAR BRAKES for Breakdown)	
18	91474512	1	VENT	
19	7029288	1	INTERMEDIATE COVER	
20	80204002	1	O-RING	
21	80204005	1	CIRCLIP	
22	91514098	1	PLUG	
23	91514099	2	GREASE FITTING	
K1	91514102	2	SUPPORT ASSY, (Prior to Axle SN FITA715001), (includes items 11, 12, 14, 15 & 23)	
K1	7029292	2	SUPPORT ASSY, (Axle SN FITA715001 to Present), (includes items 11, 12, 14, 15 & 23)	

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FIGURE 5-19. REAR STEERING COMPONENTS (Prior to SN 0160048624)



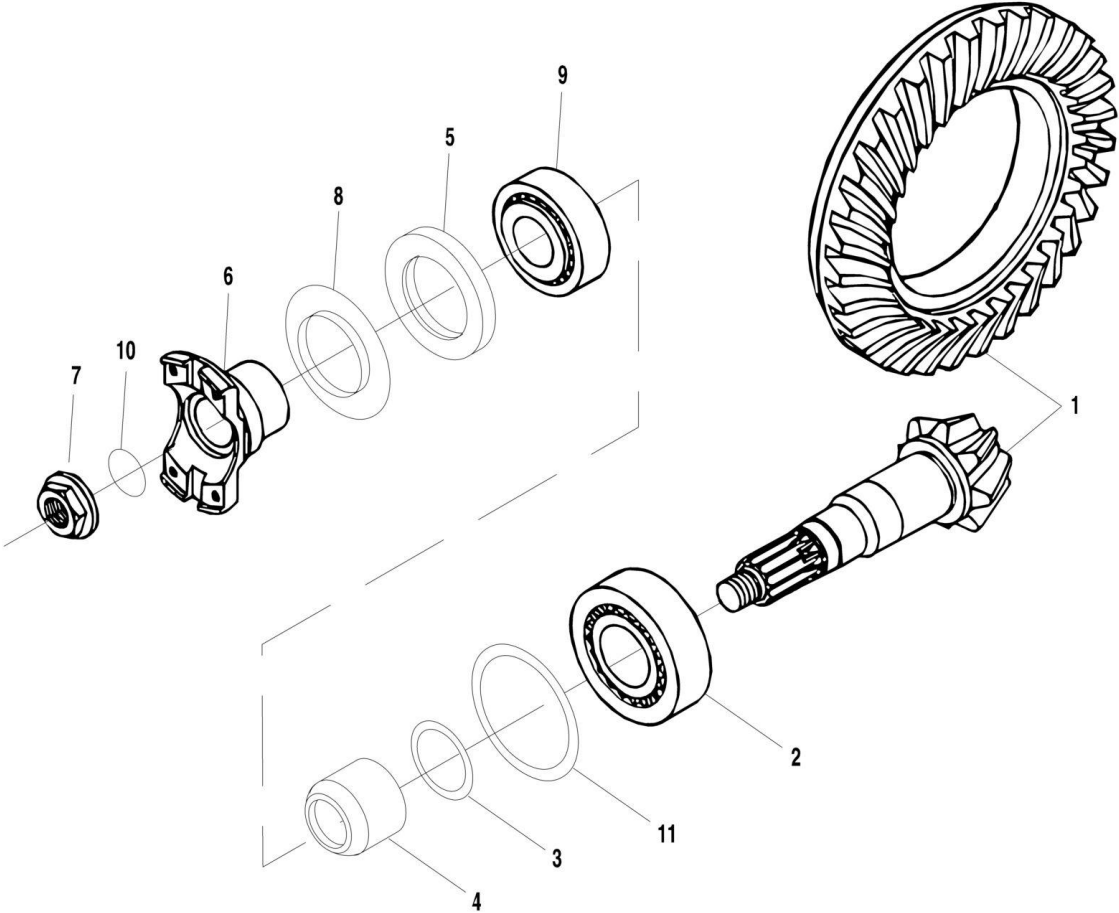
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FIGURE 5-19. REAR STEERING COMPONENTS (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514101	NLA	CYLINDER, (Prior to Axle SN EITA716066), (no longer available, use 7026490)	
1	91514255	1	SEAL KIT	
1	7026490	1	CYLINDER, (Axle SN EITA716066 to Present)	
1	7029127	1	SEAL KIT	
2	80204143	2	O-RING	
3	91514219	2	TIE ROD, (includes item 28), (Prior to Axle SN CITA718607)	
3	7029293	2	TIE ROD, (includes item 28), (Axle SN CITA718607 to Present)	
3	70021614	2	TIE ROD, (includes item 28) (SN 0160035189 to Present, Including 0160035166)	
4	80204144	5	CYLINDER BOLT	
5	91514123	24	BOLT	
9	91514110	2	SEAL, (Prior to Axle SN FITA726803)	
9	7028718	2	SEAL, (Axle SN FITA726803 to Present)	
10	91514111	2	THRUST BUSHING	
13	91514099	4	GREASE FITTING	
14	91514112	2	PIVOT PIN, (includes item 13)	
15	91514113	2	SHIM	
15	91514114	2	SHIM	
15	91514115	2	SHIM	
16	7028716	4	DUST EXCLUDER	
18	7028714	2	OUTER RACE	
19	91514095	2	BEARING	
20	7028715	2	PIVOT PIN, (includes items 16 & 19)	
21	80204065	4	NUT	
22	91514117	4	BOLT	
26	7029294	1	STEERING CASE, LH (Prior to SN 0160035189, Excluding 0160035166)	
26	7029750	1	STEERING CASE, LH (SN 0160035189 through 0160048624, Including 0160035166)	
27	7029295	1	STEERING CASE, RH (Prior to SN 0160035189, Excluding 0160035166)	
27	7029751	1	STEERING CASE, RH (SN 0160035189 through 0160048624, Including 0160035166)	
28	70022773	2	LOCKNUT	
29	91474524	2	COVER	
K1	7028733	4	STEERING ADJUST BOLT KIT, (includes items 21 & 22)	

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FIGURE 5-20. REAR GEAR COMPONENTS (Prior to SN 0160048624)



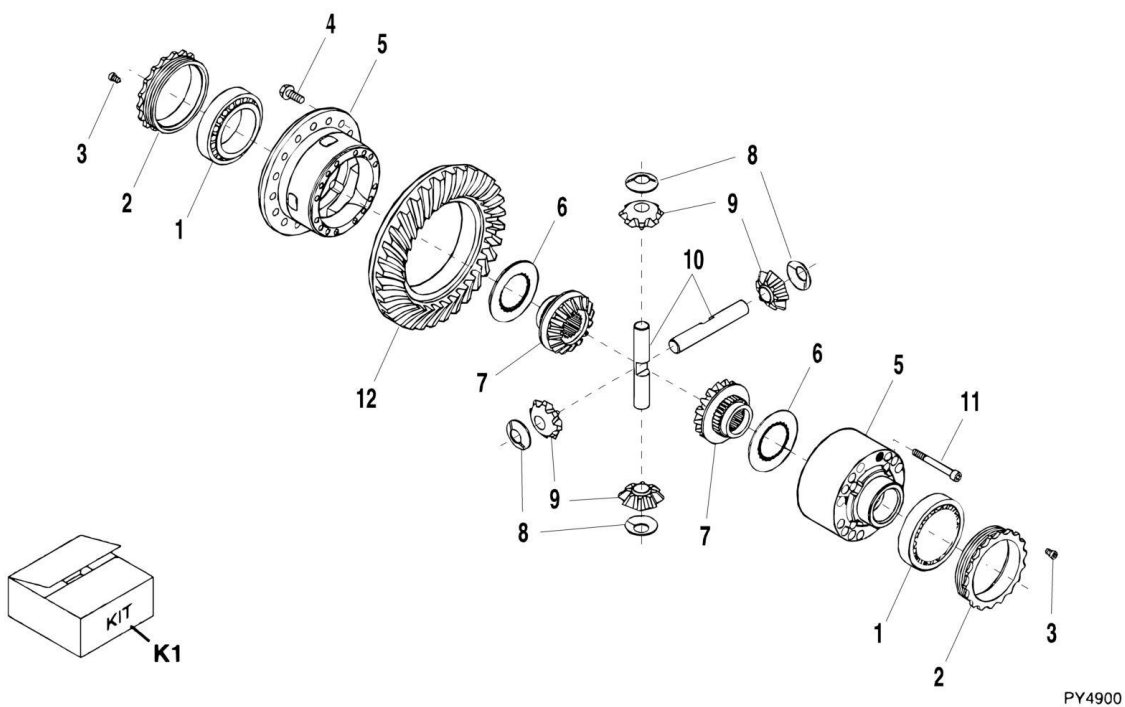
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FIGURE 5-20. REAR GEAR COMPONENTS (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514191	1	BEVEL GEAR SET	
2	80204035	1	TAPER ROLLER BEARING	
3	91514125	1	SHIM	
3	91514126	1	SHIM	
3	91514127	1	SHIM	
3	91514128	1	SHIM	
3	91514129	1	SHIM	
4	91514132	1	SPACER	
5	80204047	1	SEAL	
6	91514131	1	FLANGE	
7	80204043	1	NUT	
8	91514130	1	COVER PLATE	
9	80204048	1	TAPER ROLLER BEARING	
10	80204044	1	O-RING	
11	80204049	1	SHIM	
11	80204050	1	SHIM	
11	80204051	1	SHIM	
11	80204052	1	SHIM	

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FIGURE 5-21. REAR DIFFERENTIAL (Prior to SN 0160048624)



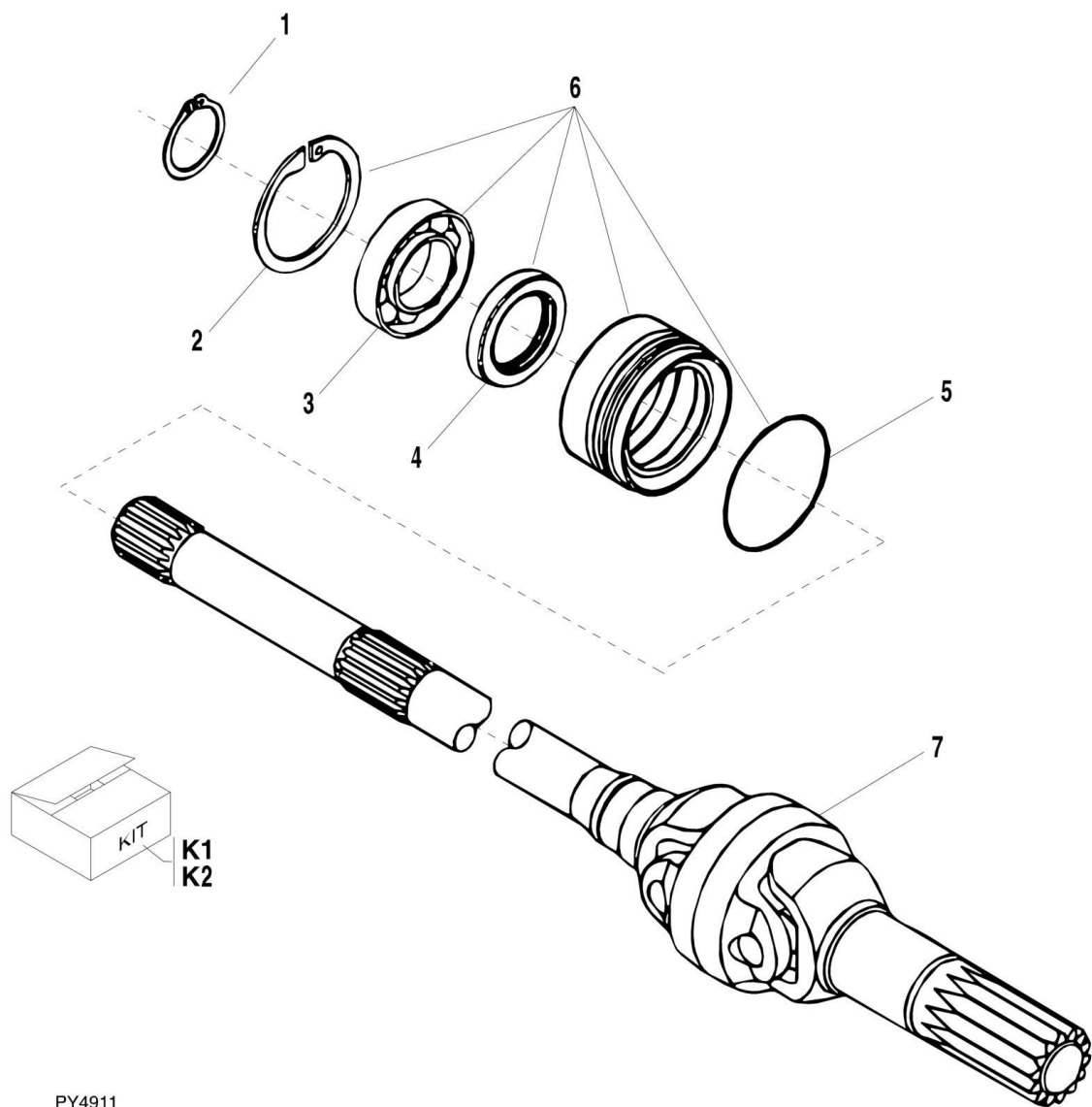
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FIGURE 5-21. REAR DIFFERENTIAL (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204033	2	TAPER ROLLER BEARING	A
2	91514133	2	RING NUT	
3	91514134	2	CYLINDER BOLT	
4	91514123	16	BOLT	
5	7029301	1	DIFFERENTIAL	
6	80204031	2	FRICTION WASHER	
7	80204030	2	DIFFERENTIAL SIDE GEAR	
8	80204026	4	FRICTION WASHER	
9	80204025	4	DIFFERENTIAL PINION	
10	91514142	2	PIN	
11	91514193	15	BOLT	
12		Ref	BEVEL GEAR, (See REAR GEAR COMPONENTS for Breakdown)	
K1	7029752	1	DIFFERENTIAL KIT, (includes items 5 thru 11)	

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FIGURE 5-22. REAR DOUBLE JOINT (Prior to SN 0160048624)



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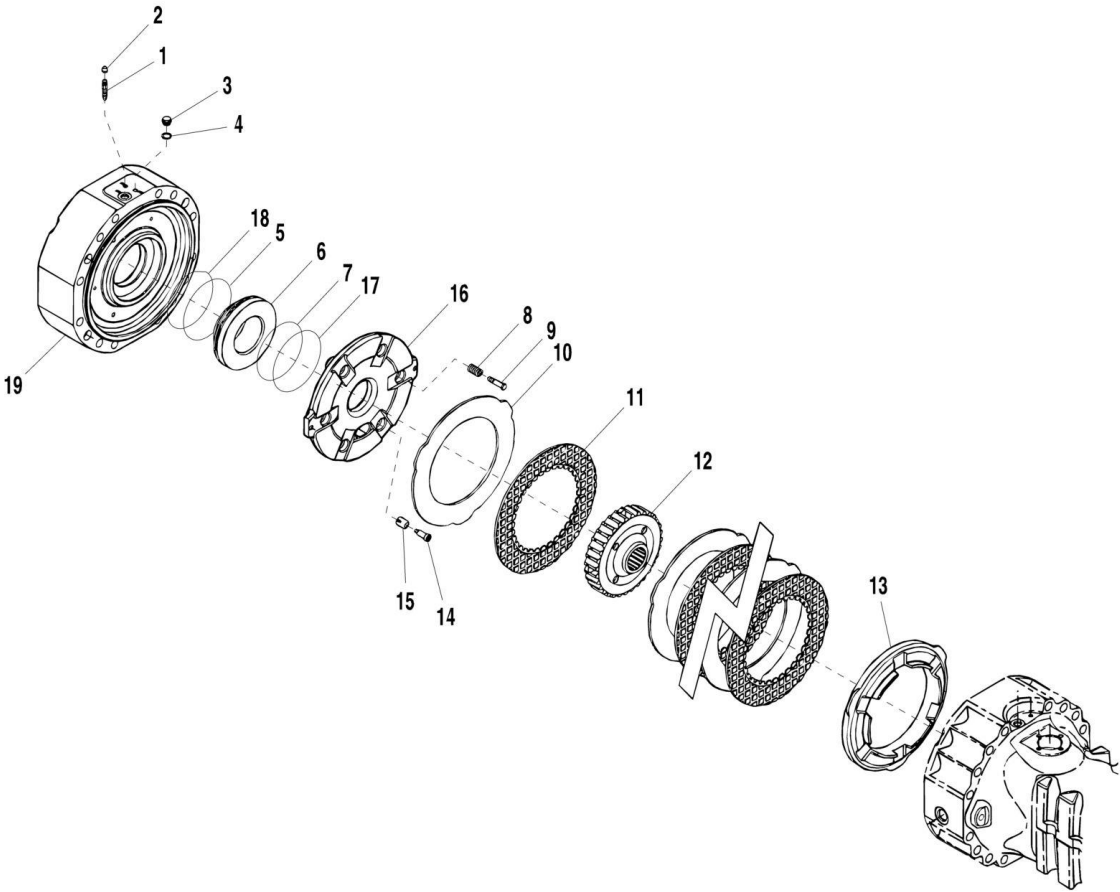
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FIGURE 5-22. REAR DOUBLE JOINT (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204071	2	CIRCLIP	
2	80204005	2	CIRCLIP	
3	91514146	2	BALL BEARING	
4	91514147	2	SEAL	
5	91514148	2	O-RING	
6	91514149	2	REDUCTION BUSHING, (includes items 2, 3, 4 & 5)	
7	7029296	2	JOINT AND SHAFT ASSY, Prior to Axle SN RITA 706070, (uses Kit K1) (SN 0160035189 through 0160048624, Prior to SN 0160035189, Including 0160035166, Excluding 0160035166)	
7	70022815	NLA	JOINT AND SHAFT ASSY, Prior to Axle SN RITA 706070, (no longer available, use quantity 2 of 70024671 as replacement), (uses Kit K1) (SN 0160035189 through 0160048624, Including 0160035166)	
7	70024671	2	JOINT & SHAFT ASSY, Axle SN RITA706070 to Present, (uses Kit K2) (SN 0160035189 through 0160048624, Including 0160035166)	
K1	70021615	2	CROSS KIT, (includes circlips)	
K2	70023829	2	CROSS KIT, (includes circlips)	

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FIGURE 5-23. REAR BRAKES (Prior to SN 0160035189, Excluding 0160035166)



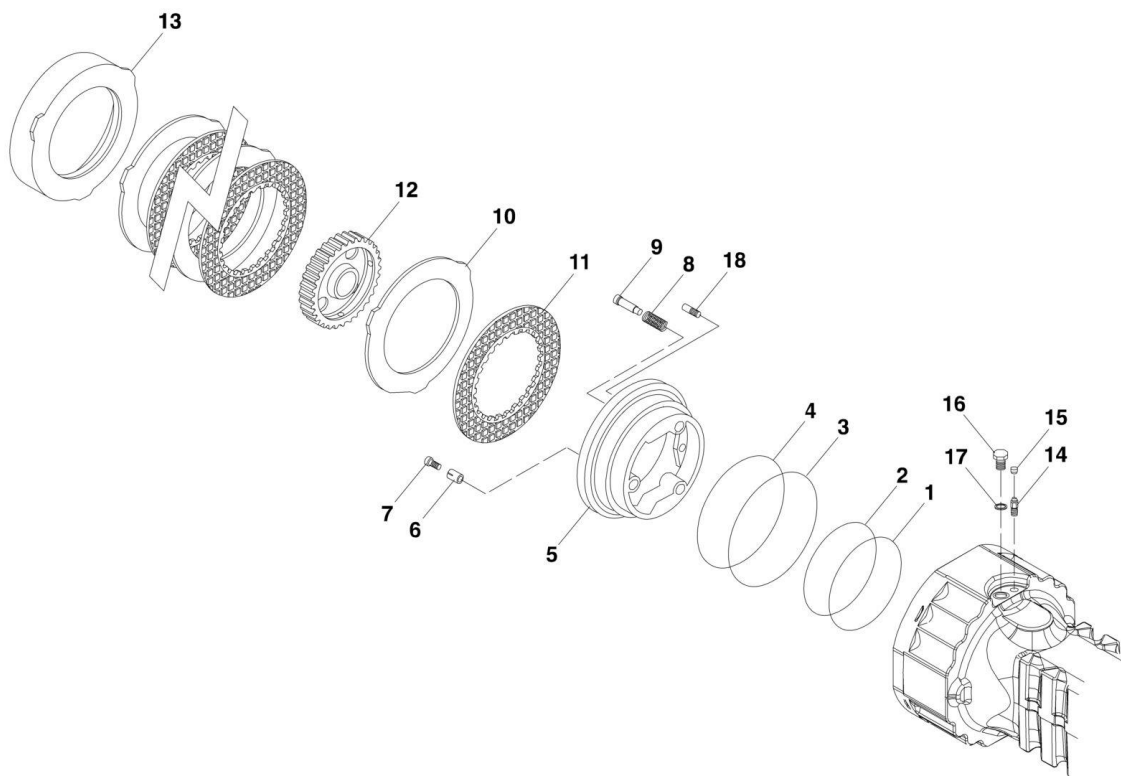
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FIGURE 5-23. REAR BRAKES (Prior to SN 0160035189, Excluding 0160035166)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204281	2	BLEED SCREW	A
2	80204117	2	PLUG	
3	91514154	2	BOLT	
4	91514155	2	SEAL WASHER	
5	91514167	2	O-RING	
6	91514194	2	PISTON	
7	91514156	2	O-RING	
8	91514159	6	SPRING	
9	91514160	6	ADJUSTING BOLT	
10	91514161	6	INTERMEDIATE BRAKE DISC	
11	7029299	6	BRAKE DISC, (Prior to Axle SN GITA743052)	
11	7029735	6	BRAKE DISC, (Axle SN GITA743052 to Present)	
12	91514163	2	SELECTOR, (Prior to Axle SN GITA743052)	
12	7029734	2	REDUCTION BUSHING, (Axle SN GITA743052 to Present)	
13	7029298	2	SPACER	
14	7029297	6	ADJUSTING BOLT	
15	91514165	6	SPRING	
16	91514166	2	INTERMEDIATE BRAKE DISC	
17	91514157	2	BACK-UP RING	
18	91514153	2	BACK-UP RING	
19	91514195	2	INTERMEDIATE COVER	

SECTION 5 - DRIVE TRAIN

FIGURE 5-24. REAR BRAKES (SN 0160035189 through 0160048624, Including 0160035166)



PY3800

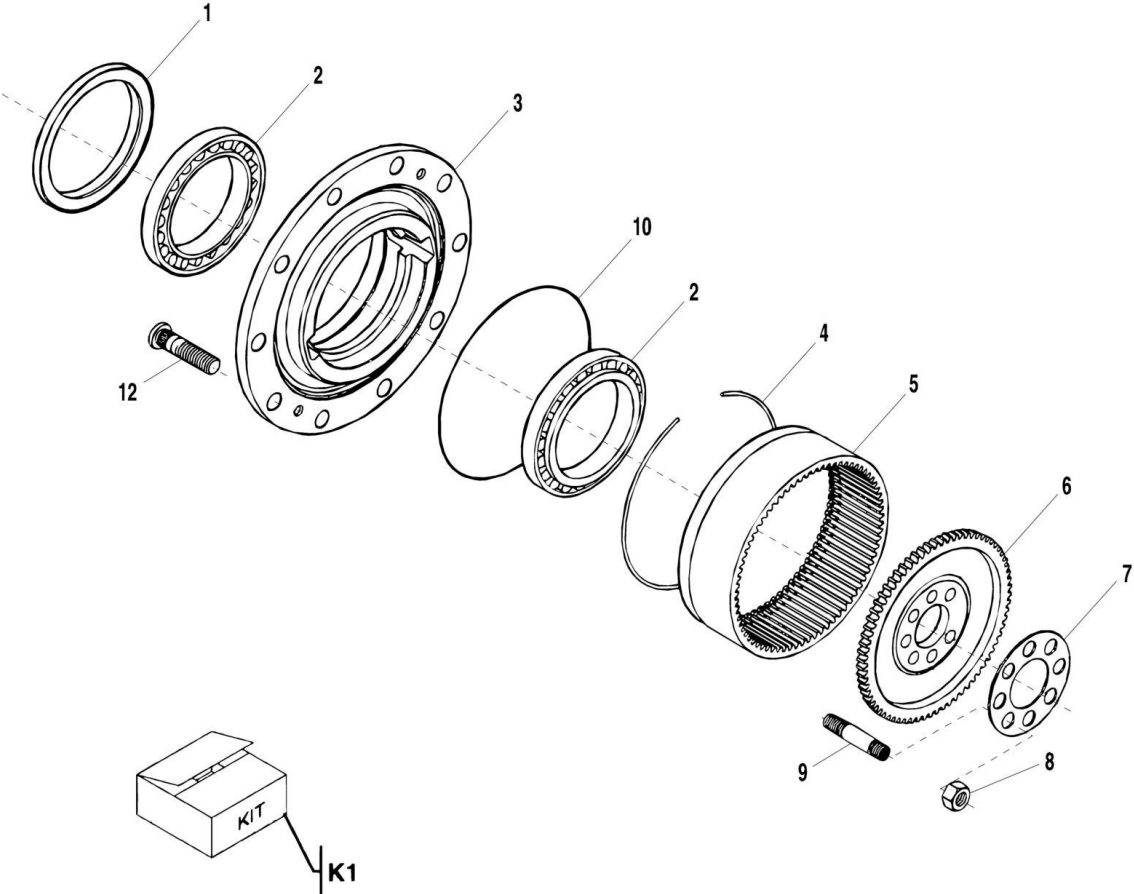
SECTION 5 - DRIVE TRAIN

FIGURE 5-24. REAR BRAKES (SN 0160035189 through 0160048624, Including 0160035166)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70021609	2	BACK-UP RING	
2	70021610	2	O-RING	
3	70021612	2	BACK-UP RING	
4	70021611	2	O-RING	
5	70021608	2	PISTON	
6	91514165	6	TUBE	
7	70021607	6	ADJUSTING BOLT	
8	91514159	6	SPRING	
9	91514160	6	ADJUSTING BOLT	
10	91514161	6	INTERMEDIATE BRAKE DISC	
11	7029735	6	BRAKE DISC	
12	7029734	2	REDUCTION BUSHING	
13	70021606	2	SPACER	
14	80204281	2	BLEEDING BOLT	
15	80204117	2	PLUG	
16	91514154	2	BOLT	
17	91514155	2	SEAL WASHER	
18	70021613	2	PILOT BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-25. REAR WHEEL HUB (Prior to SN 0160048624)



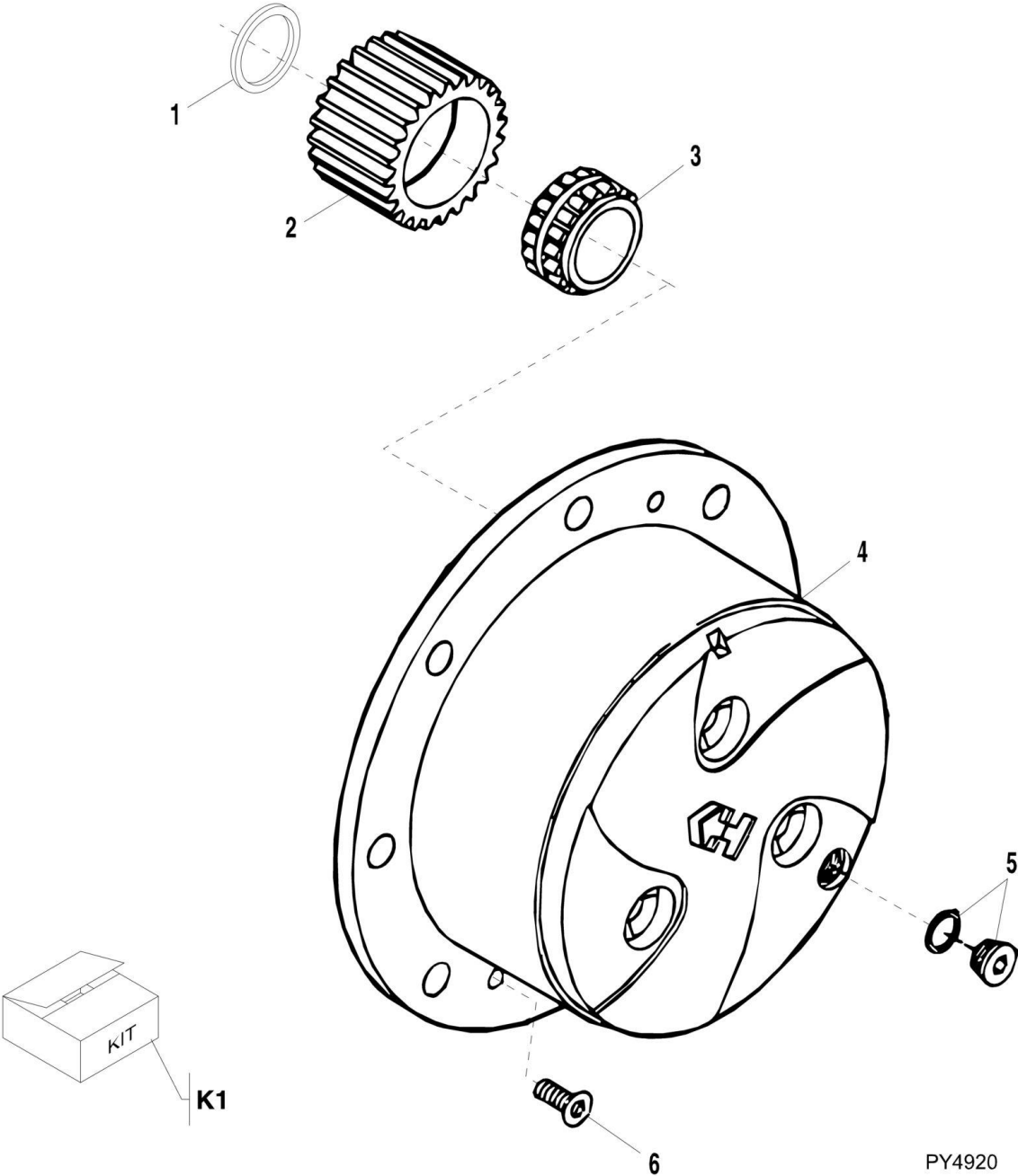
SECTION 5 - DRIVE TRAIN

FIGURE 5-25. REAR WHEEL HUB (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7029300	2	SEAL	
2	80204076	4	BEARING	
3	91514174	2	WHEEL HUB	
4	91514175	2	CIRCLIP	
5	91514176	2	RING GEAR (Prior to SN 0160035189, Excluding 0160035166)	
5	70021605	2	RING GEAR (SN 0160035189 through 0160048624, Including 0160035166)	
6	91514177	2	GEAR SUPPORT	
7	91514178	2	LOCKING PLATE	
8	91514179	16	NUT	
9	91514180	16	STUD	
10	91514181	2	O-RING	
12	80214120	20	WHEEL STUD	
K1	70024146	1	RING GEAR SUPPORT KIT (includes items 4, 5 & 6)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-26. REAR REDUCTION GEARS (Prior to SN 0160048624)



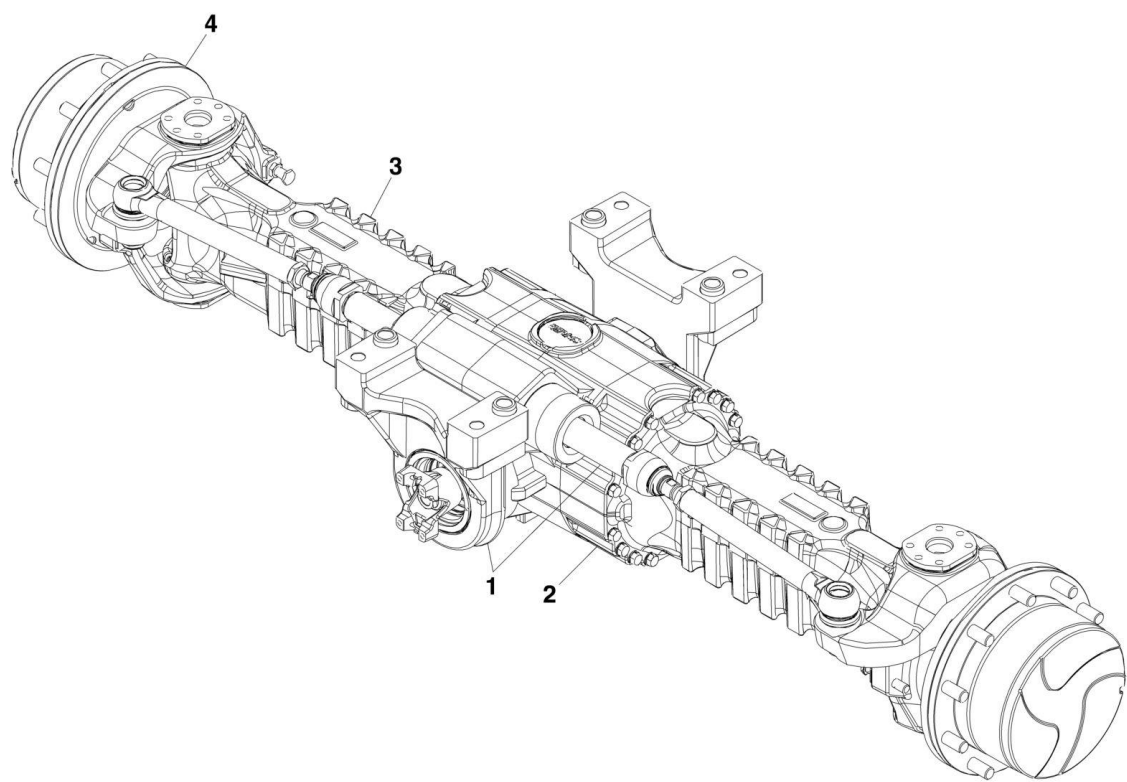
SECTION 5 - DRIVE TRAIN

FIGURE 5-26. REAR REDUCTION GEARS (Prior to SN 0160048624)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514184	6	CIRCLIP	A
2	91514185	6	PLANETARY GEAR	
3	91514186	6	BEARING	
4	7026731	2	PLANETARY GEAR CARRIER	
5	91514188	2	PLUG	
6	91514189	4	COUNTERSUNK BOLT	
K1	70025972	1	PLANETARY CARRIER KIT (includes items 1 thru 4)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-27. REAR AXLE (SN 0160048624 to Present)



ART_1001136368-E

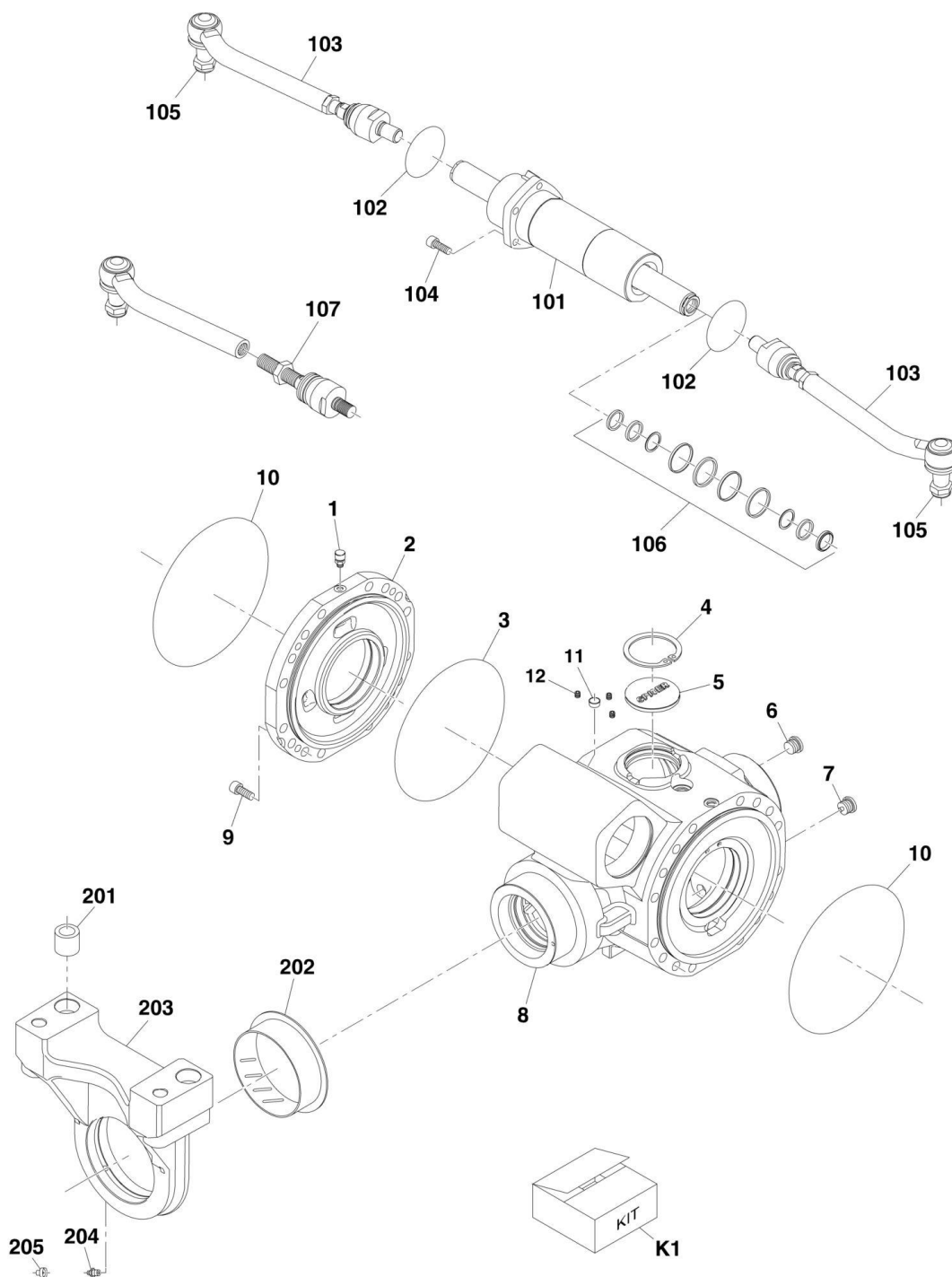
SECTION 5 - DRIVE TRAIN

FIGURE 5-27. REAR AXLE (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001136368	1 Ref	REAR AXLE, (includes all items) CENTRAL HOUSING AND STEERING, (See Separate Breakdown in this Section)	E
2		Ref	DIFFERENTIAL, (See Separate Breakdown in this Section)	
3		Ref	HUB REDUCTION, (See Separate Breakdown in this Section)	
4		Ref	BRAKES, (See Separate Breakdown in this Section)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-28. CENTRAL HOUSING AND STEERING (SN 0160048624 to Present)



ART_1001136368_1-E

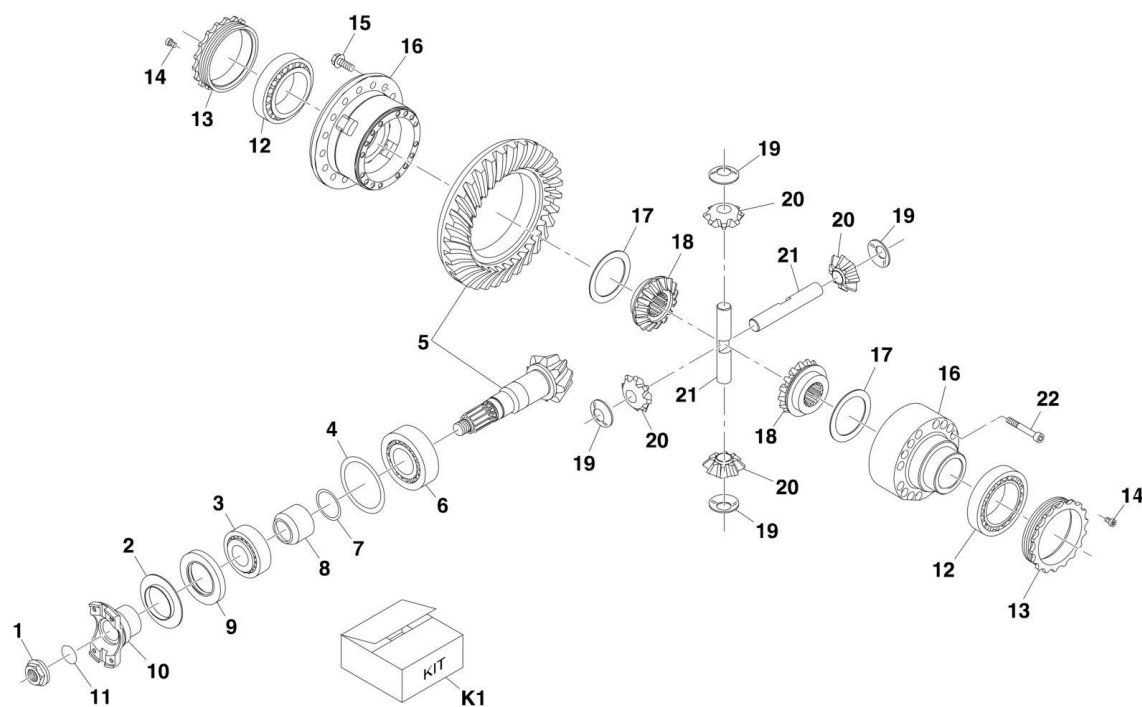
SECTION 5 - DRIVE TRAIN

FIGURE 5-28. CENTRAL HOUSING AND STEERING (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474512	1	VENT	
2	7029288	1	INTERMEDIATE COVER	
3	80204002	1	O-RING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	91514087	1	PLUG	
7	70021177	1	MAGNET PLUG	
8	7029289	1	HOUSING	
9	91514101	4	BOLT	
10	91514089	2	O-RING	
11	7029307	1	PLUG	
12	7029306	3	BOLT	
101	7026490	1	STEERING CYLINDER	
102	80204143	2	O-RING	
103	70021614	2	TIE-ROD	
104	80204144	5	BOLT	
105	70025974	2	SELF LOCKING NUT	
106	7029127	1	SEAL KIT	
107	70025973	2	NUT	
201	7029290	4	BUSHING	
202	91514090	2	THRUST BUSHING	
203	7029291	2	SUPPORT	
204	91514099	2	GREASE FITTING	
205	80204117	2	PLUG	
K1	7029292	2	SUPPORT ASSY, (includes items 201 thru 205)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-29. DIFFERENTIAL (SN 0160048624 to Present)



ART_1001136368_2-E

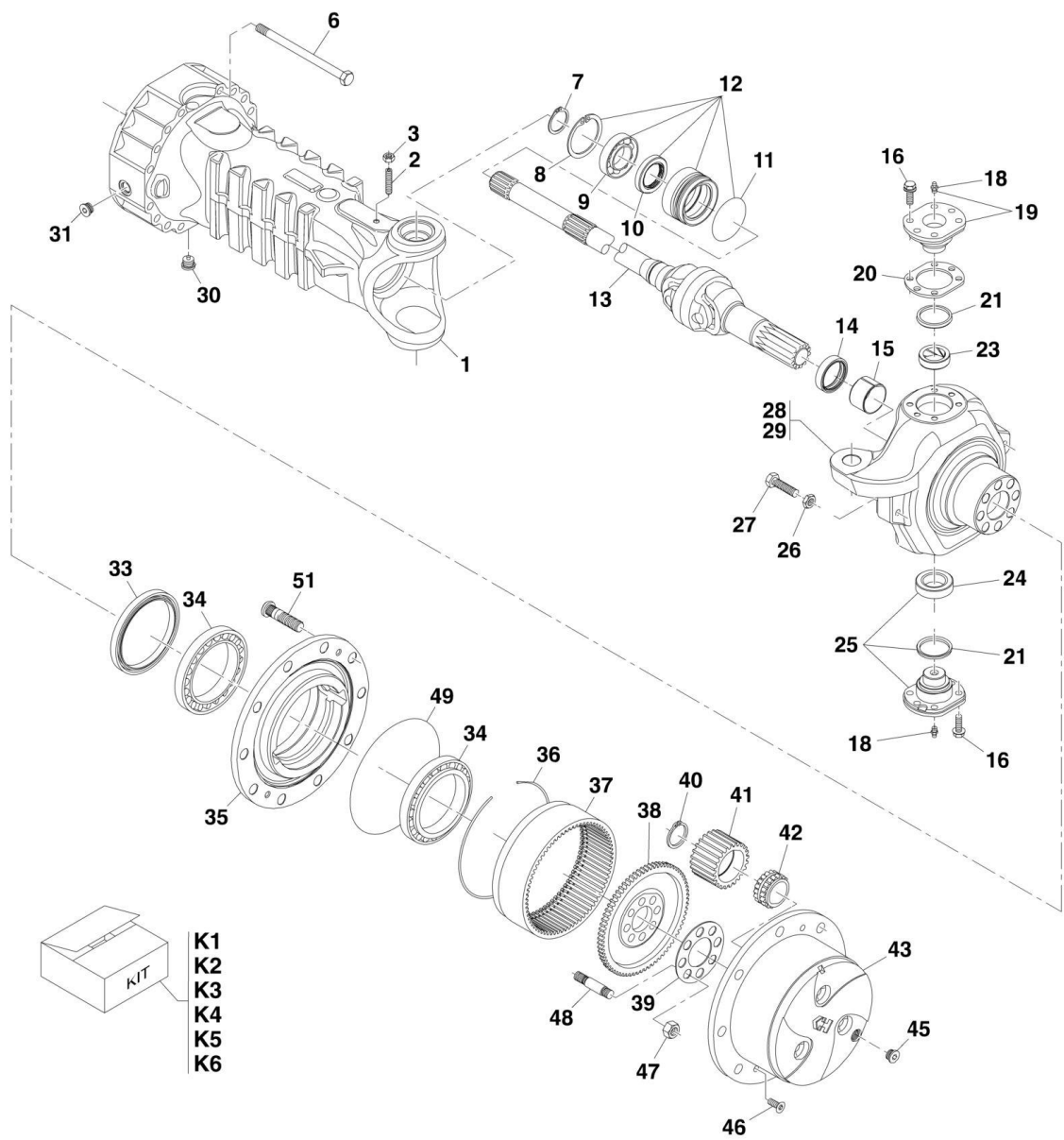
SECTION 5 - DRIVE TRAIN

FIGURE 5-29. DIFFERENTIAL (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204043	1	NUT	
2	91514130	1	COVER PLATE	
3	80204048	1	TAPER ROLLER BEARING	
4	70023469	1	SHIM	
5	91514191	1	BEVEL GEAR SET	
6	80204035	1	TAPER ROLLER BEARING	
7	70023494	1	RING KIT	
8	70022140	1	SPACER	
9	70025887	1	SEAL	
10	91514131	1	FLANGE	
11	10725554	1	O-RING	
12	80204033	2	TAPER ROLLER BEARING	
13	91514133	2	RING NUT	
14	91514134	2	BOLT	
15	91514123	16	BOLT	
16	70025337	1	DIFFERENTIAL CARRIER	
17	70023493	2	FRICTION WASHER	
18	70025338	2	DIFFERENTIAL SIDE GEAR	
19	70023491	4	FRICTION WASHER	
20	70025339	4	DIFFERENTIAL PINION	
21	70023490	2	DIFFERENTIAL SHAFT	
22	70023489	15	BOLT	
K1	70025971	Ref	DIFFERENTIAL KIT, (includes items 16 thru 22)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-30. HUB REDUCTION (SN 0160048624 to Present)



ART_1001136368_3-E

SECTION 5 - DRIVE TRAIN

FIGURE 5-30. HUB REDUCTION (SN 0160048624 to Present)

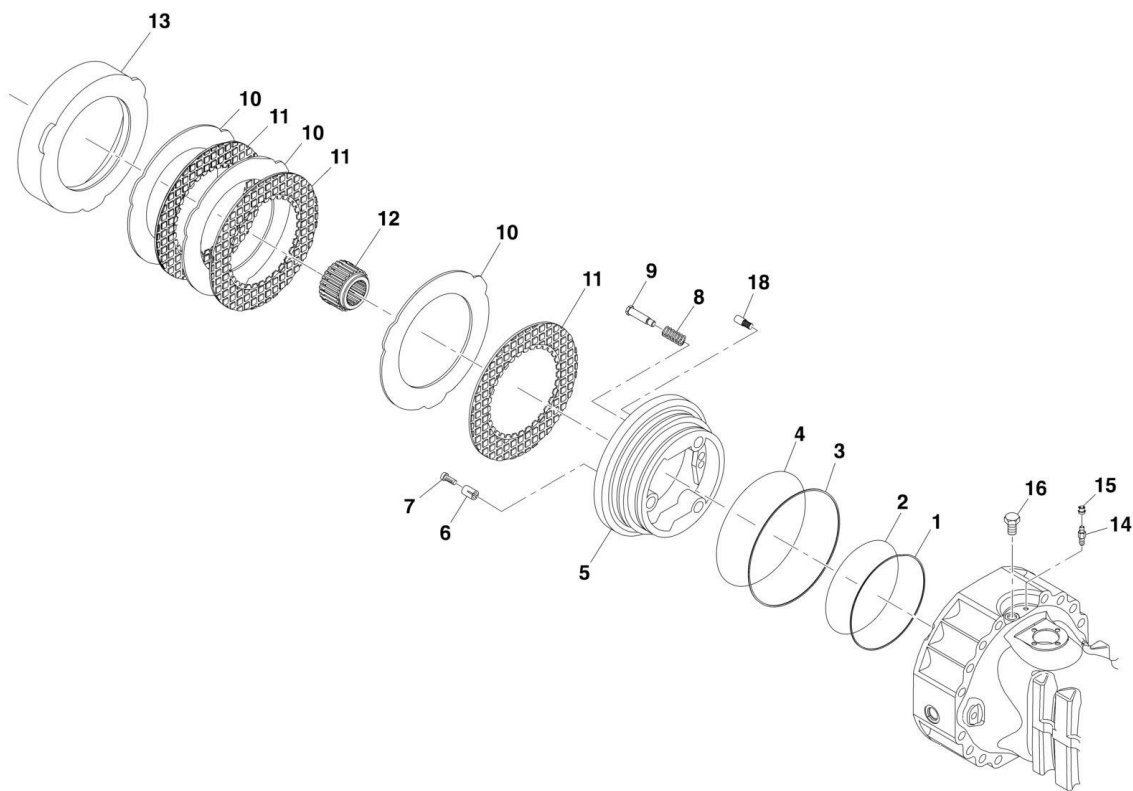
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70025980	2	AXLE CASE	
2	91514081	2	BOLT	
3	91514082	2	NUT	
6	70022814	32	HEXAGON BOLT	
7	80204071	2	CIRCLIP	
8	80204005	2	CIRCLIP	
9	91514146	2	BALL BEARING	
10	91514147	2	SEAL	
11	91514148	2	O-RING	
12	91514149	2	REDUCTION BUSHING	
13	70024671	2	DOUBLE UNIVERSAL JOINT	
14	70025857	2	SEAL	
15	91514111	1	THRUST BUSHING	
16	91514123	24	BOLT	
18	91514099	2	GREASE FITTING	
19	91514112	2	PIVOT PIN	
20	70025561	1	SHIM KIT	
21	7028716	2	DUST EXCLUDER	
23	7028714	2	BUSHING	
24	91514095	2	BEARING	
25	7028715	2	PIVOT PIN	
26	80204065	4	NUT	
27	91514117	4	BOLT	
28	7029750	1	LH STEERING CASE	
29	7029295	1	RH STEERING CASE	
30	70021177	2	MAGNET PLUG	
31	91514087	2	PLUG	
33	7029300	2	SEAL	
34	80204076	4	TAPER ROLLER BEARING	
35	91514174	2	WHEEL HUB	
36	91514175	2	CIRCLIP	
37	70024147	2	RING GEAR	
38	91514177	2	RING GEAR SUPPORT	
39	91514178	2	LOCKING PLATE	
40	91514184	6	SNAP RING	
41	91514185	6	PLANET GEAR	
42	91514186	6	BEARING	
43	7026731	2	PLANET GEAR CARRIER	
45	91514188	2	PLUG	
46	91514189	4	COUNTERSUNK BOLT	
47	91514179	16	NUT	
48	91514180	16	STUD	
49	91514181	2	O-RING	
51	80214120	20	WHEEL STUD	
K1	7029733	2	PLANET GEAR CARRIER KIT, (includes items 40 thru 43)	
K2	7029750	1	LH STEERING CASE KIT, (includes items 15 & 28)	
K3	7029751	1	RH STEERING CASE KIT, (includes items 15 & 29)	
K4	7028733	4	STEERING ADJUST BOLT KIT, (includes items 26 & 27)	
K5	70024146	2	RING GEAR SUPPORT KIT, (includes items 36 thru 38)	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K6	70025972	2	PLANET & RING GEARS SUPPORT KIT (Includes Items 36 thru 38 & 40 thru 43)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-31. BRAKES (SN 0160048624 to Present)



ART_1001136368_4-E

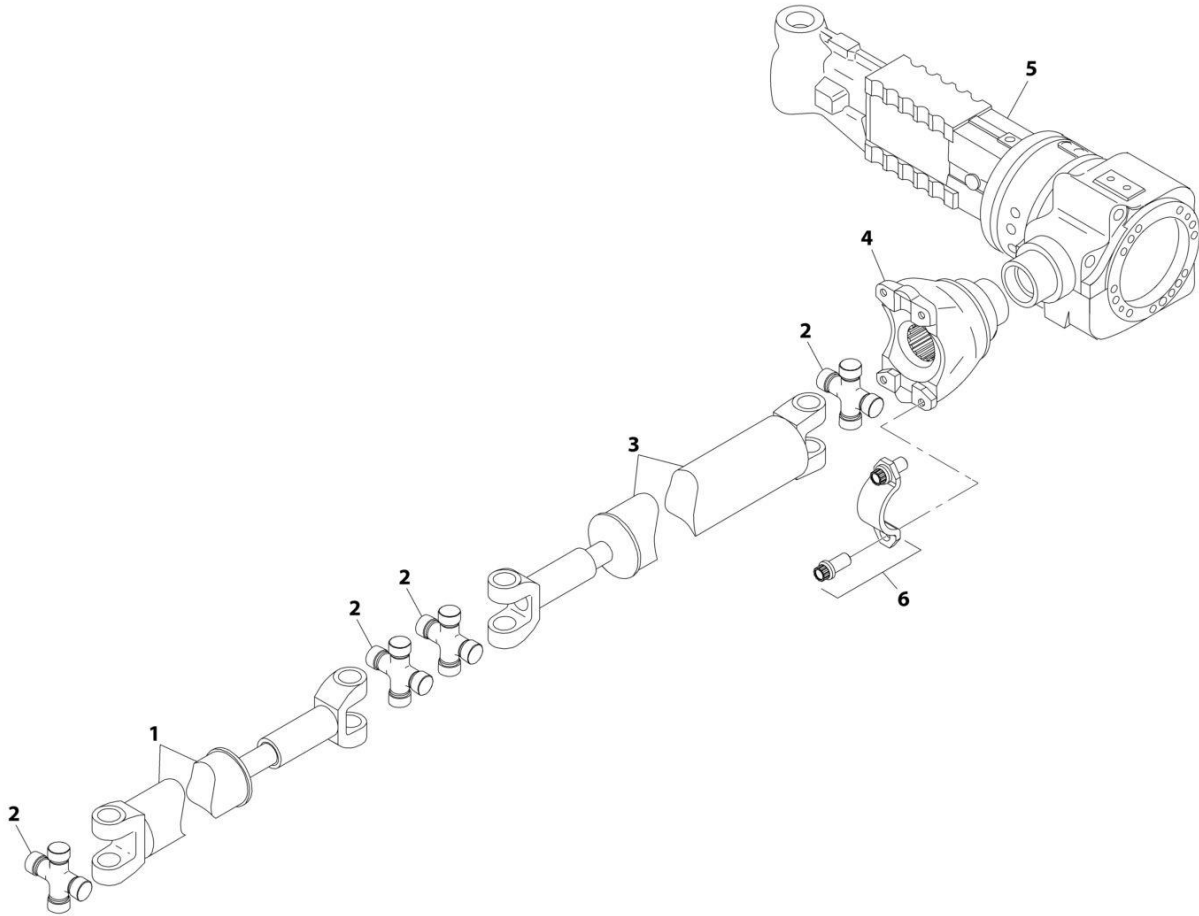
SECTION 5 - DRIVE TRAIN

FIGURE 5-31. BRAKES (SN 0160048624 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70021609	2	BACKUP RING	
2	70021610	2	O-RING	
3	70021612	2	BACKUP RING	
4	70021611	2	O-RING	
5	70024216	2	PISTON	
6	91514165	6	SPRING	
7	70021607	6	ADJUSTING BOLT	
8	91514159	6	SPRING	
9	70024210	6	ADJUSTING BOLT	
10	91514161	6	INTERMEDIATE BRAKE DISC	
11	7029735	6	BRAKE DISC	
12	7029734	2	REDUCTION BUSHING	
13	70021606	2	SPACER	
14	80204281	2	BLEEDING BOLT	
15	80204117	2	PLUG	
16	91514154	2	PLUG	
18	70021613	2	PILOT BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-32. DRIVE SHAFT ASSEMBLY



ART_91514001-5-22

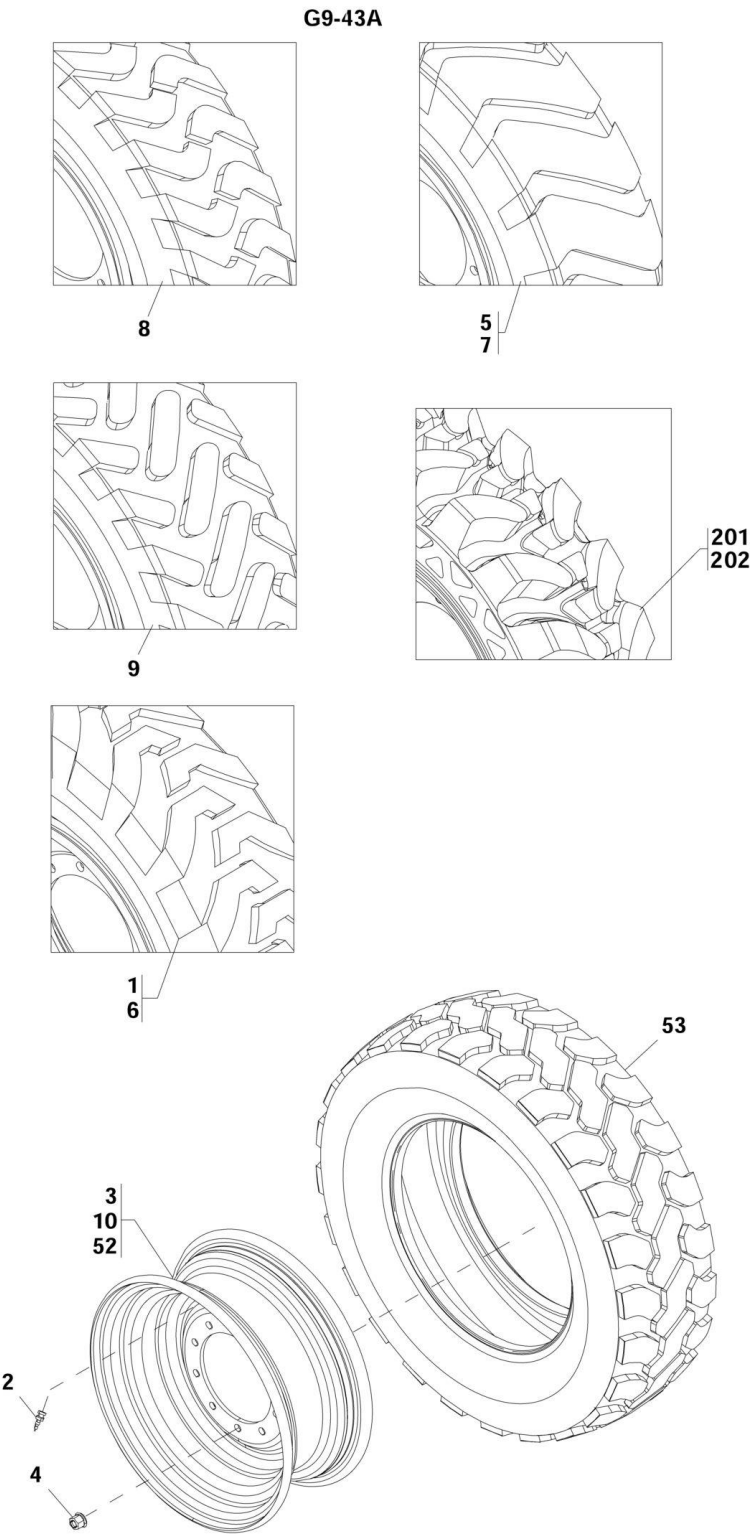
SECTION 5 - DRIVE TRAIN

FIGURE 5-32. DRIVE SHAFT ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	4040293	1	DRIVESHAFT, (front), (includes two of item 2) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
1	1001106573	1	DRIVESHAFT, (front) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
2	8036433	4	UNIVERSAL JOINT KIT	
3	4040292	1	DRIVESHAFT, (rear), (includes two of item 2) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
3	1001106574	1	DRIVESHAFT, (rear) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
4		Ref	FLANGE, (See REAR GEAR COMPONENTS for Breakdown)	
5		Ref	AXLE ASSY, (See REAR AXLE ASSEMBLY for Breakdown)	
6	91473027	8	BEARING STRAP, (no longer available, use 8880218-OM for replacement)	
6	8880218-OM	4	KIT, STRAP	
6	8880216-OM	2	STRAP	
6	8880217-OM	4	SCREW, 0.375-24 x 0.75	
7	91473028	16	STRAP BOLT, (not shown), (no longer available, use 8880218-OM for replacement)	
133	91143220	22 in	TRIM LOCK, 1/2, (not shown) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-33. TIRES AND RIMS (G9-43A)



ART_91514001-5-23

SECTION 5 - DRIVE TRAIN

FIGURE 5-33. TIRES AND RIMS (G9-43A)

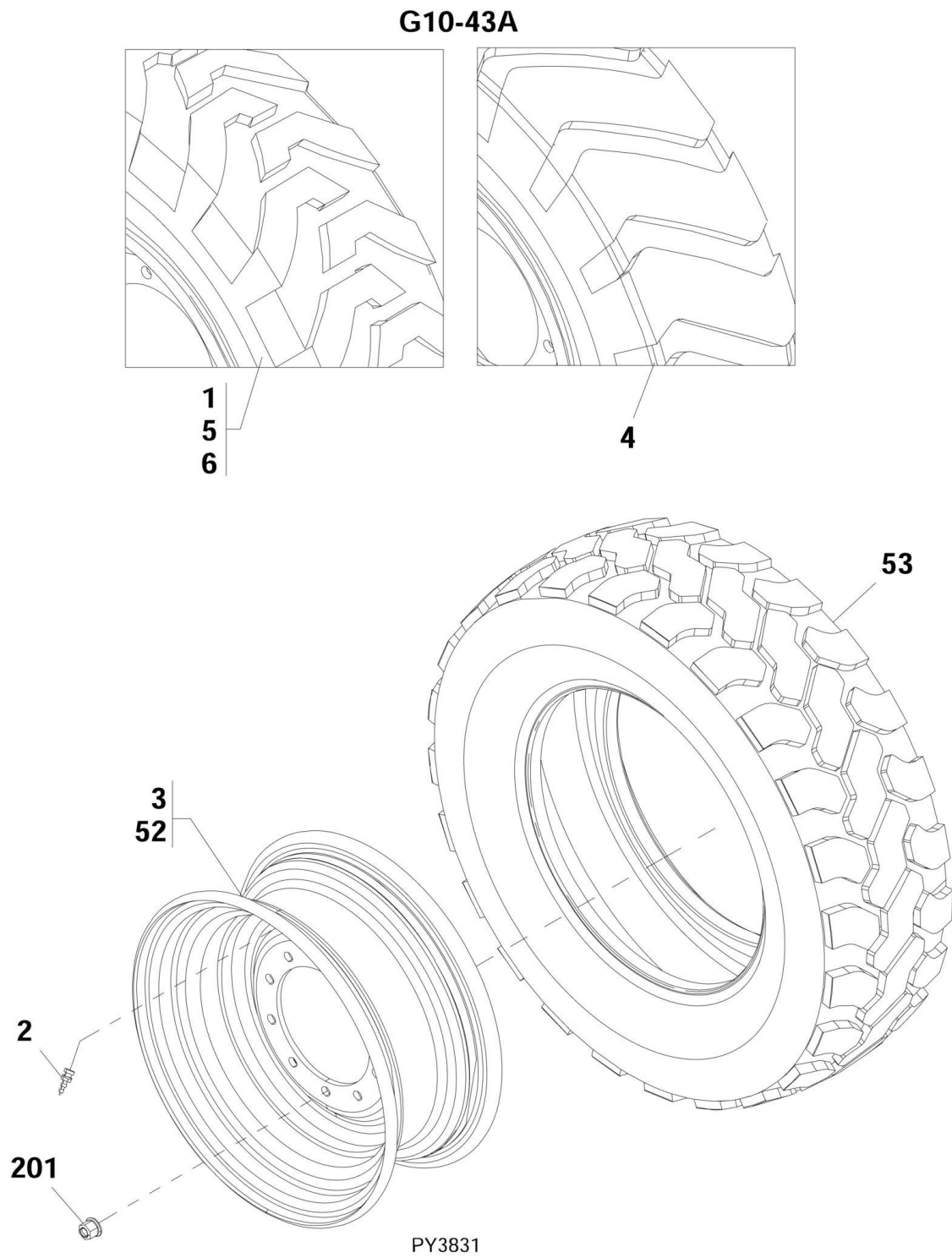
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4520368	1	TIRE SET, 13.00-24 BIAS, G-2	B
	91405035	2	RH TIRE AND WHEEL ASSY, 13.00-24 BIAS, G-2, (includes items 1 thru 3)	I
	91405036	2	LH TIRE AND WHEEL ASSY, 13.00-24 BIAS, G-2, (includes items 1 thru 3)	I
	4520369	1	TIRE SET, 13.00-24 BIAS, ROCK TREAD	A
	91535017	4	TIRE AND WHEEL ASSY, 13.00-24 BIAS, ROCK TREAD, (includes items 2, 3 & 5)	C
	4520455	1	TIRE SET, 15.50-25 BIAS, G-2	B
	91475031	2	RH TIRE AND WHEEL ASSY, 15.50-25 BIAS, G-2, (includes items 2, 6 & 10)	D
	91475032	2	LH TIRE AND WHEEL ASSY, 15.50-25 BIAS, G-2, (includes items 2, 6 & 10)	D
	4520458	1	TIRE SET, 15.50-25 BIAS	A
	4520451	4	TIRE AND WHEEL ASSY, 15.50-25 BIAS, ROCK TREAD, (includes items 2, 7 & 10)	A
	4520374	1	TIRE SET, 13.00-24 RADIAL	A
	91515056	4	TIRE AND WHEEL ASSY, 13.00-24 RADIAL, (includes items 2, 3 & 8)	C
	4520461	1	TIRE SET, 15.50-25 RADIAL	A
	4520453	4	TIRE AND WHEEL ASSY, 15.50-25, RADIAL, (includes items 2, 9 & 10)	A
	4520370	1	TIRE SET, 13.00-24 BIAS, G-2, FOAM FILLED	B
	91475054	2	RH TIRE AND WHEEL ASSY, 13.00-24 BIAS, G-2, FOAM FILLED, 542 lb, (includes items 1 thru 3)	E
	91475055	2	LH TIRE AND WHEEL ASSY, 13.00-24 BIAS, G-2, FOAM FILLED, 542 lb, (includes items 1 thru 3)	E
	4520375	1	TIRE SET, 13.00-24 RADIAL, FOAM FILLED	A
	91475093	4	TIRE AND WHEEL ASSY, 13.00-24 RADIAL, FOAM FILLED, 542 lb, (includes items 2, 3 & 8)	F
	4520371	1	TIRE SET, 13.00-24 BIAS, ROCK TREAD, FOAM FILLED	A
	91535019	4	TIRE AND WHEEL ASSY, 13.00-24 BIAS, ROCK TREAD, FOAM FILLED, 542 lb, (includes items 2, 3 & 5)	E
	4520459	1	TIRE SET, 15.50-25, FOAM FILLED	A
	91475105	4	TIRE AND WHEEL ASSY, 15.50-25, ROCK TREAD, FOAM FILLED, 600 lb (includes items 2, 7 & 10)	B
	4520456	1	TIRE SET, 15.50-25, G-2, FOAM FILLED	B
	4520449	2	RH TIRE AND WHEEL ASSY, 15.50-25, FOAM FILLED, G-2, (includes items 2, 6 & 10)	B
	4520450	2	LH TIRE AND WHEEL ASSY, 15.50-25, FOAM FILLED, G-2, (includes items 2, 6 & 10)	B
	4520462	1	TIRE SET, 15.50-25, FOAM FILLED	A
	91515066	4	TIRE AND WHEEL ASSY, 15.50-25, RADIAL, FOAM FILLED, 600 lb,(includes items 2, 9 & 10)	D
	1001120963	1	TIRE SET, 370/75-28, 14 PLY	B
	1001100323	4	TIRE AND WHEEL ASSY, 370/75-28, 14 PLY, (includes items 2, 52 & 53)	D
	1001121519	1	TIRE SET, 370/75-28, 14 PLY, FOAM FILLED	B
	1001121101	4	TIRE AND WHEEL ASSY, 370/75-28, 14 PLY, FOAM FILLED, 464 lb,(includes items 2, 52 & 53)	B
1	8780031	1	TIRE, 13.00-24 BIAS, DIRECTIONAL	
2	8786514	1	VALVE STEM	
3	91473206	1	WHEEL, 24X9, 0.219 OFFSET	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	91403193	10	WHEEL NUT	
5	8780045	1	TIRE, 13.00-24 BIAS, ROCK TREAD, NON-DIRECTIONAL	
6	8780036	1	TIRE, 15.50-25 BIAS, DIRECTIONAL	
7	8780050	1	TIRE, 15.50-25 BIAS, ROCK TREAD, NON-DIRECTIONAL	
8	8780264	1	TIRE, 13.0-24 RADIAL, NON-DIRECTIONAL	
9	8780048	1	TIRE, 15.50-25 RADIAL, L-2	
10	91473207	1	WHEEL, 25X13, 0.219 OFFSET	
52	1001099976	1	WHEEL, 28X11, 0.219 OFFSET, (if equipped with Firestone 370/75-28)	
53	1001100284	1	TIRE, 370/75-28, 14 PLY	
	1001151106	1	SOLIDEAL TIRE SET, 13.00X24, 0.219 OFFSET, (include items 201 & 202)	A
201	1001151097	2	LH SOLIDEAL TIRE AND WHEEL ASSY	A
202	1001151098	2	RH SOLIDEAL TIRE AND WHEEL ASSY	A

SECTION 5 - DRIVE TRAIN

FIGURE 5-34. TIRES AND RIMS (G10-43A)



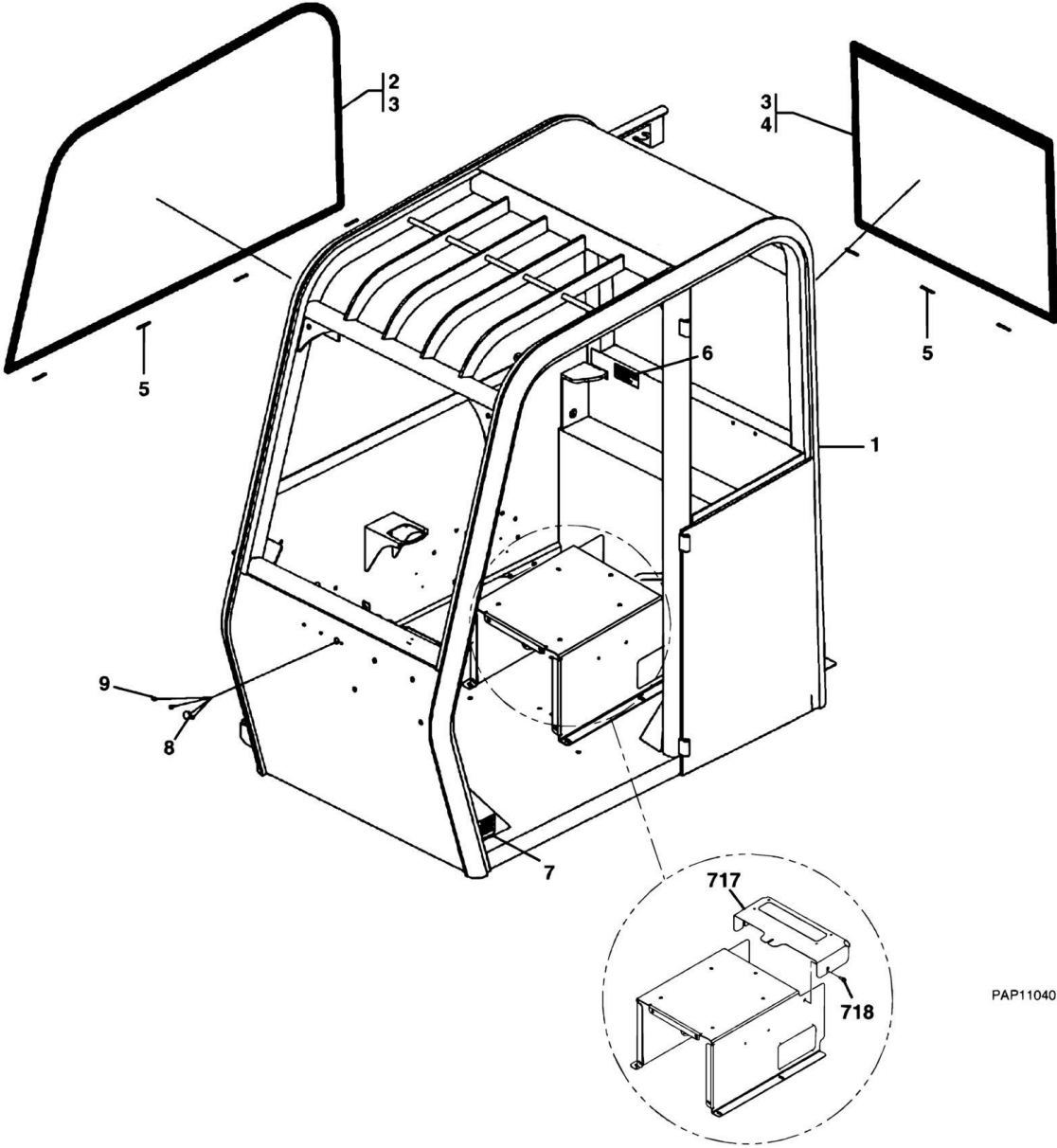
SECTION 5 - DRIVE TRAIN

FIGURE 5-34. TIRES AND RIMS (G10-43A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4520485	1	TIRE SET, 14.00-24 BIAS, ROCK TRED, G-3	A
	91545010	4	TIRE AND WHEEL ASSY, 14.00-24 BIAS, ROCK TRED, G-3, (includes items 2 thru 4)	F
	4520481	1	TIRE SET, 14.00-24 BIAS, G-2	B
	91355034	2	RH TIRE AND WHEEL ASSY, 14.00-24 BIAS, G-2, (includes items 1 thru 3)	D
	91355035	2	LH TIRE AND WHEEL ASSY, 14.00-24 BIAS, G-2, (includes items 1 thru 3)	D
	4520486	1	TIRE SET, 14.00-24 BIAS, ROCK TRED, FOAM FILLED, G-3	A
	91545008	4	TIRE AND WHEEL ASSY, 14.00-24 BIAS, ROCK TRED, FOAM FILLED, 720 lb, G-3, (includes items 2 thru 4)	G
	4520482	1	TIRE SET, 14.00-24 BIAS, FOAM FILLED, G-2	C
	91355037	2	RH TIRE AND WHEEL ASSY, 14.00-24 BIAS, FOAM FILLED, 720 lb, G-2, (includes items 1 thru 3)	F
	91355038	2	LH TIRE AND WHEEL ASSY, 14.00-24 BIAS, FOAM FILLED, 720 lb, G-2, (includes items 1 thru 3)	F
	1001121109	1	TIRE SET, 400/75-28, 16 PLY	B
	1001121103	4	TIRE AND RIM ASSY, 400/75-28, 16 PLY, (includes items 2, 52 & 53)	B
	1001125410	1	TIRE SET, 400/75-28, 16 PLY, FOAM FILLED	B
	1001121105	4	TIRE AND RIM ASSY, 400/75-28, 16 PLY, FOAM FILLED, 464 lb, (includes items 2, 52 & 53)	B
1	91043084	1	TIRE, 14.00-24 BIAS, DIRECTIONAL	
2	8786514	1	VALVE STEM	
3	91473206	1	WHEEL, 24X9, 0.219 OFFSET	
4	91543002	1	TIRE, 14.00-24 BIAS, ROCK TRED, NON-DIRECTIONAL	
52	1001120178	1	WHEEL, 28X12, 0.75 OFFSET, (if equipped with Firestone 400/75-28)	
53	1001120179	1	TIRE, 400/75-28, 16PLY	
201	91403193	10	WHEEL NUT	

SECTION 6 - CAB

FIGURE 6-1. OPEN CAB



PAP11040

FIGURE 6-1. OPEN CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513186	1	OPEN CAB ASSY , (includes all items) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	R
	1001119958	1	OPEN CAB ASSY , (includes all items) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	E
1	N.S.S.	1	CAB WELDMENT	
2	91404109	1	RH SIDE WINDOW, WITH BORDER	
3	80364009	AR	URETHANE SEALANT	
4	91404110	1	REAR WINDOW, WITH BORDER	
5	80264031	7	SETTING BLOCK, 1/8X1/4X2	
6	N.S.S.	1	SN PLATE	
7	91164094	1	ROPS WARNING DECAL	
8	91164087	1	HOLE PLUG, 0.75	
9	91164086	3	HOLE PLUG, 0.375	
717	1001104327	1	ACCESS PANEL (Prior to SN 0160039218)	
717	1001117136	1	ACCESS PANEL (SN 0160039218 to Present)	
718	0791406	4	FLANGE HEX HD SCREW, 1/4-20 X.750 (SN 0160020129 to Present)	

SECTION 6 - CAB

FIGURE 6-2. CAB ENCLOSURES

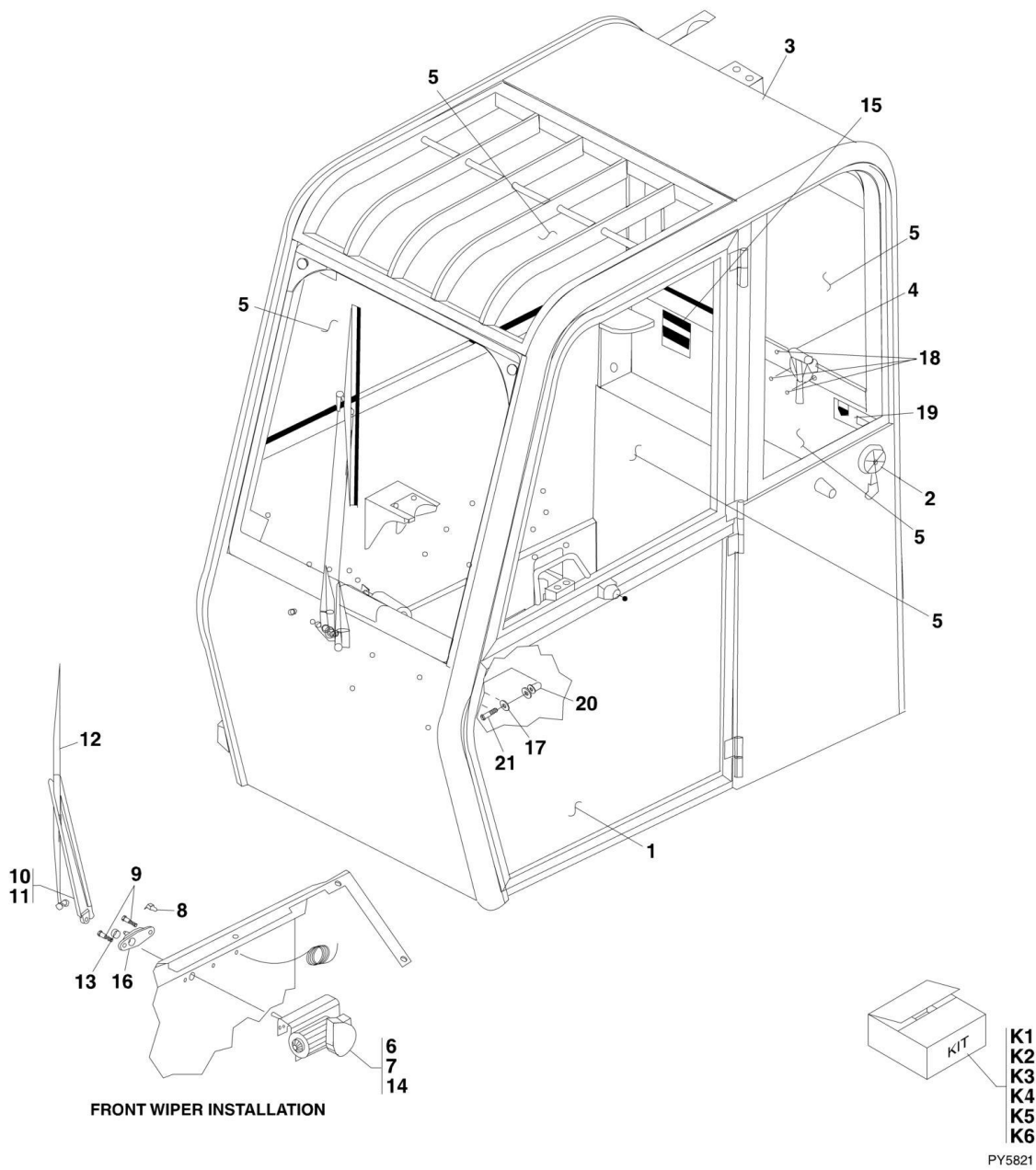


FIGURE 6-2. CAB ENCLOSURES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91473156	1	CAB ENCLOSURE, (includes items 1 thru 21)	
1		Ref	CAB DOOR ASSY, (See CAB DOOR ASSEMBLY for Breakdown)	
2		Ref	DOOR HOLD OPEN ASSY, (See CAB DOOR ASSEMBLY for Breakdown)	
3	91404295	1	HEADLINER, 1 IN, (inside cab)	
4	91404301	1	EMERGENCY HAMMER WITH CABLE	
5		Ref	CAB GLASS, (See CAB GLASS for Breakdown)	
6	91404293	1	WIPER MOTOR ASSY, (includes items 7 & 14)	
6	7029860	1	12V WIPER MOTOR	
7	91144478	1	SHAFT AND PIVOT ASSY	
8	1001081310	1	WET ARM SPACER	
9	80384207	2	HEX SCREW, 0.25-28X0.75	
10	1001081311	1	WET ARM KIT	
11	1001081308	1	WIPER ARM	
12	80384213	1	WIPER BLADE	
13	91334135	1	SPACER	
14	80384203	1	WIPER DRIVE ARM	
15	N.S.S.	1	SN PLATE	
16	1001081307	1	WIPER ARM ADAPTOR	
17	91404297	2	WASHER	
18	91404298	3	RIVET	
19	91404299	1	EMERGENCY EXIT DECAL	
20	80364023	1	STRIKER BOLT	
21	91334024	1	HEX BOLT, 0.375-16X0.875	
	91515008	1	ENCLOSED CAB ASSY, (includes items on OPEN CAB thru CAB GLASS) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	1001119959	1	ENCLOSED CAB ASSY, (includes items on OPEN CAB thru CAB GLASS) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	B
K1	91475066	1	CAB ENCLOSURE WITH HEATER KIT, (includes cab enclosure 91473156 and items shown on OPTIONS SECTION) (Prior to SN 0160033884)	D
K2	1001116612	1	CAB ENCLOSURE WITH HEATER KIT, (includes cab enclosure 91473156 and items shown on OPTIONS SECTION), (to complete cab enclosure order applicable items on OPTIONS SECTION) (SN 0160033884 through 0160040674)	C
K3	1001131759	1	CAB ENCLOSURE WITH HEATER KIT, (includes cab enclosure 91473156 and items shown on OPTIONS SECTION), (to complete cab enclosure order applicable items on OPTIONS SECTION) (SN 0160040675 through 0160064853, Including 0160040468 and 0160040672, Excluding 0160014434)	B
K3	1001144798	1	CAB ENCLOSURE WITH HEATER KIT, (includes cab enclosure 91473156 and items shown on OPTIONS SECTION), (to complete cab enclosure order applicable items on OPTIONS SECTION) (SN 0160065018 through 0160066218, Including 0160014434)	C
K4		Ref	CAB ENCLOSURE WITH HEATER AND A/C KIT, (includes cab enclosure 91473156, items shown on OPTIONS SECTION) (Prior to SN 0160033884)	
K5	1001116613	1	CAB ENCLOSURE WITH HEATER AND A/C KIT, (includes cab enclosure 91473156, items shown on OPTIONS SECTION), (to complete cab enclosure order applicable items on OPTIONS SECTION) (SN 0160033884 through 0160040674)	C
K6	1001131760	Ref	CAB ENCLOSURE WITH HEATER AND A/C KIT, (includes cab enclosure 91473156, items shown on OPTIONS SECTION), (to	C

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K6	1001144799	Ref	complete cab enclosure order applicable items on OPTIONS SECTION) (SN 0160040675 through 0160064853, Including 0160040468 and 0160040672, Excluding 0160014434) CAB ENCLOSURE WITH HEATER AND A/C KIT, (includes cab enclosure 91473156, items shown on OPTIONS SECTION), (to complete cab enclosure order applicable items on OPTIONS SECTION) (SN 0160065018 through 0160066218, Including 0160014434)	E

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FIGURE 6-3. CAB COMPONENTS

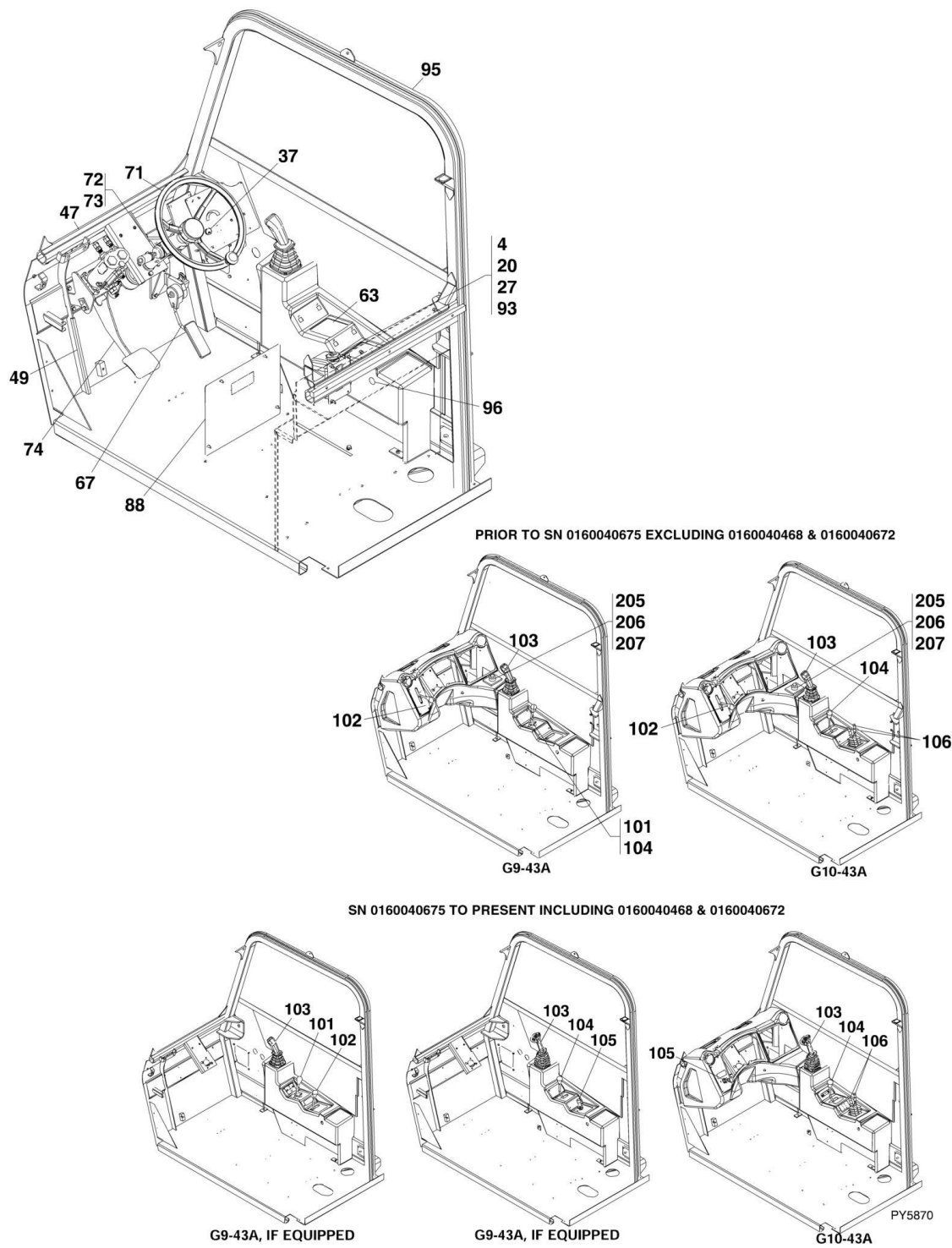


FIGURE 6-3. CAB COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
20	4711400	7	WASHER, 1/4	
27	4791400	1	STAR WASHER, 1/4	
37	80963101	1	WIPER SWITCH	
40	82033997	108 in	WASHER FLUID HOSE, (not shown)	
47	90200755	32 in	GASKA-TAPE	
49	90206198	12 in	TRIM-LOCK	
63	91413130	4	NYLON PLUG, (inside cab wall under right hand panel)	
67		Ref	ACCELERATOR PEDAL INSTALLATION, (See CONTROLS SECTION for Breakdown)	
71		Ref	STEERING WHEEL, (See CONTROLS SECTION for Breakdown)	
72		Ref	F-N-R SHIFTER ASSY, (See CONTROLS SECTION for Breakdown)	
73		Ref	STEERING COLUMN ASSY, (See CONTROLS SECTION for Breakdown)	
74		Ref	POWER BRAKE INSTALLATION, (See CONTROLS SECTION for Breakdown)	
88		Ref	HEATER COVER WELDMENT, (See OPTIONS SECTION for Breakdown) (Prior to SN 0160039317)	
88	1001103567	1	SEAT RISER ACCESS PANEL (SN 0160039317 to Present)	
93	1001111112	1	WINDOW WASHER FLUID TANK	
95		Ref	ENCLOSED CAB ASSY, (See CAB ENCLOSURES for Breakdown)	
96	1001131130	1	PLUG	
101		Ref	TILT AND FRAME LEVEL JOYSTICK INSTALLATION, (See CONTROLS SECTION for Breakdown)	
102		Ref	AUXILIARY HYDRAULIC JOYSTICK INSTALLATION, (See CONTROLS SECTION for Breakdown)	
103		Ref	BOOM JOYSTICK, (See CONTROLS SECTION for Breakdown)	
104		Ref	FRAME LEVEL JOYSTICK ASSY, (See CONTROLS SECTION for Breakdown)	
105		Ref	ELECTRIC AUXILIARY HYDRAULIC JOYSTICK, (See CONTROLS SECTION for Breakdown)	
106		Ref	OUTRIGGER JOYSTICKS, (See CONTROLS SECTION for Breakdown)	
202	91513201	1	TILT ON JOYSTICK DECAL, (not shown) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
202		Ref	TILT DECAL, (not shown), (See DECALS SECTION for Breakdown) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
205	1001099174	1	RHEOSTAT (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
206	91401571	1	MOUNTING PLATE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
207	88321015	4	PAN HD SCREW, 6-32X1/2 (self tap) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
218		Ref	TILT ON JOYSTICK CAB HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	

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FIGURE 6-4. CAB DOOR ASSEMBLY

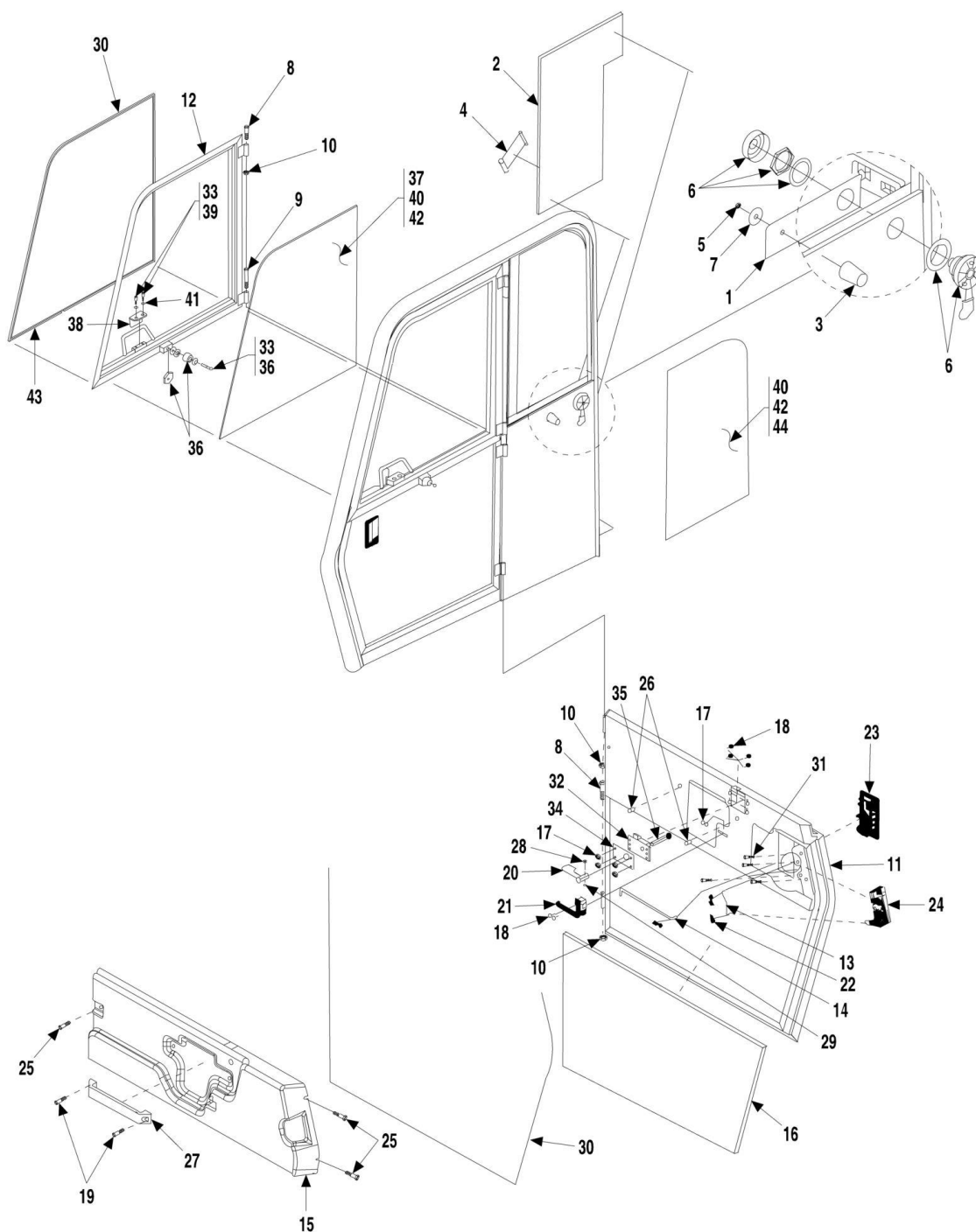


FIGURE 6-4. CAB DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91404292	1	HOLD OPEN PLATE	
2	91404294	1	LH SIDE PANEL FOAM	
3	91404300	1	RUBBER BUMPER	
4	80384218	1	DOOR STRAP	
5	91334031	1	HEX NUT, 0.312-18	
6	91404303	1	DOOR HOLD OPEN ASSY	
7	91404304	1	WASHER	
8	80384205	2	HEX BOLT, 0.375-16X4	
9	91404305	1	HEX BOLT, 0.375-16X5	
10	91404306	3	HEX NUT, 0.375-16	
11	91474481	1	LOWER DOOR ASSY, (includes items 13 thru 29, 8 ft of item 30, items 31, 32, 34, & 35)	
11	70023193	1	LOWER DOOR WELDMENT, (INCLUDES HINGES)	
12	91474482	1	UPPER DOOR ASSY, (includes 11 ft of item 30, item 33, & 36 thru 43)	
13	91404309	1	DOOR ROD, EXT RELEASE	
14	91404310	1	DOOR ROD, INT RELEASE	
15	91404311	1	PLASTIC DOOR COVER	
16	91404312	1	FOAM, 0.50, LOWER DOOR	
17	91404313	6	CTR. LOCKNUT, #10-24	
18	80384191	6	WHIZ LOCK SCREW, #10-24X0.50	
19	91404314	2	FLAT HD SCREW, 0.25-20X1.25	
20	91404315	1	RH WINDOW RELEASE AND LH DOOR LEVER	
21	80384192	1	HANDLE	
22	80384187	3	CLIP	
23	80384184	1	PADDLE LATCH	
24	80384186	1	CAM LATCH	
25	80264066	3	SCREW, M5X1X12 THD CUTTING	
26	80364088	2	INSERT NUT, 0.25-20	
27	91404316	1	DIE CAST GRAB HANDLE	
28	91404317	1	SCREW, #8-32X1.12	
29	91404318	1	NYLOCK NUT, #8-32	
30	80364001	19 ft	BULB SEAL, P-STEM	
31	80384189	4	HEX SCREW, 0.25-20X0.75	
32	91404319	1	LH SLAM LATCH	
33	91344018	AR	BLUE LOCTITE	
34	91404320	1	SLAM LATCH STIFFENER	
35	91404321	1	LOWER DOOR DRIVE BAR WELDMENT	
36	91474492	1	DOOR, HOLD OPEN	
37		Ref	UPPER DOOR GLASS, (See CAB GLASS for Breakdown)	
38	91404323	1	SLAM LATCH STRIKER	
39	91404324	2	HEX BOLT, 0.312-18X0.625	
40	91404302	AR	ACTIVATOR, SIKA	
41	91334032	2	FLAT WASHER, 0.313X0.75X0.06	
42	80364009	AR	SEALANT	
43	91344046	AR	SEALANT/ADHESIVE	
44		Ref	LH SIDE GLASS WINDOW, (See CAB GLASS for Breakdown)	

FIGURE 6-5. CAB GLASS

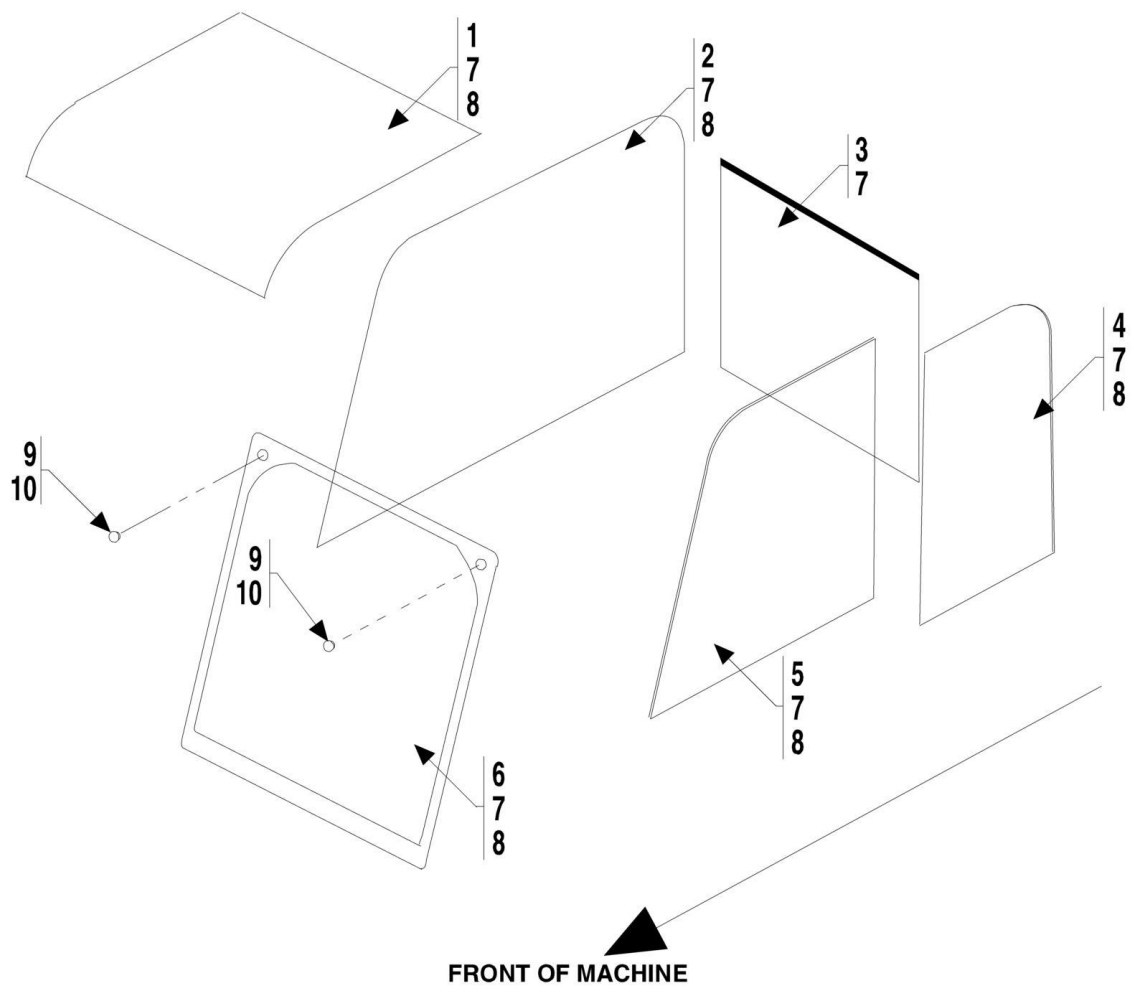
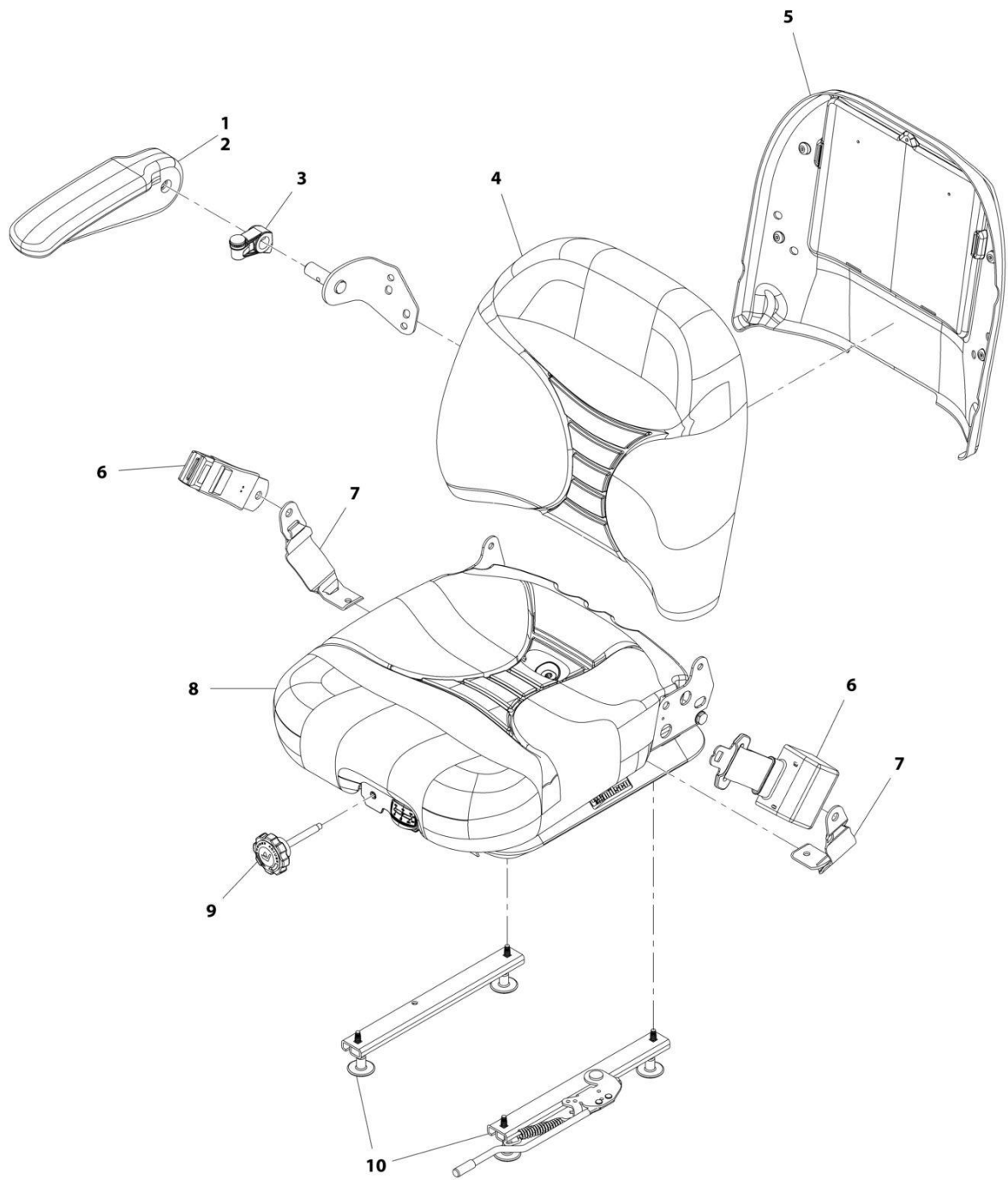


FIGURE 6-5. CAB GLASS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91404290	1	SKYLIGHT WINDOW, (if equipped)	
2	91404109	1	RH SIDE WINDOW, WITH BORDER	
3	91404110	1	REAR WINDOW, WITH BORDER	
4	80364030	1	LH SIDE GLASS WINDOW, (if equipped)	
5	91404322	1	UPPER DOOR GLASS, (if equipped)	
6	91404291	1	FRONT WINDOW, (if equipped)	
7	80364009	AR	URETHANE SEALANT	
8	91404302	AR	ACTIVATOR	
9	91404296	2	HOLE PLUG, 1.25, (if equipped)	
10	80364012	AR	CLEAR SEALANT, (if equipped)	

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FIGURE 6-6. SUSPENSION SEAT (SN 0160015460 to Present)



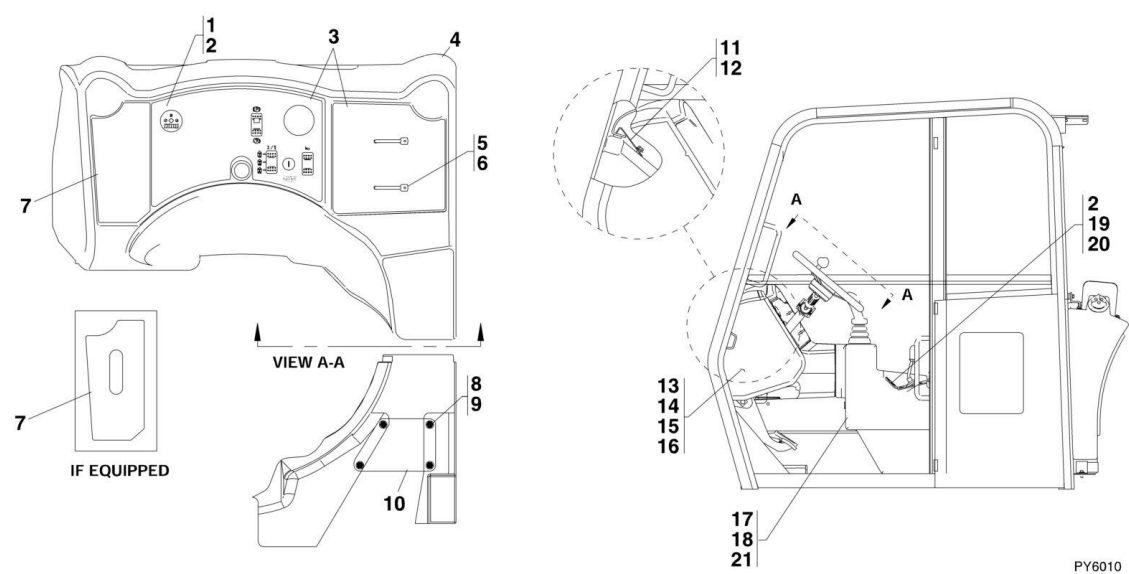
ART_91563158-G

FIGURE 6-6. SUSPENSION SEAT (SN 0160015460 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563158	1	SUSPENSION SEAT, (includes all items)	G
1	7026904	1	ARMREST ASSY RH KIT, (includes items 2 & 3)	
2	N.S.S.	1	ARMREST, MOLDED KIT	
3	N.S.S.	1	ARMREST STOP ASSY	
4	7026900	1	BACK CUSHION KIT	
5	7026902	1	BACK PANEL KIT	
6	7026905	1	2 IN SEAT BELT KIT	
7	7026906	1	TETHER KIT	
8	7026901	1	SEAT CUSHION KIT	
9	7026799	1	KNOB KIT	
10	7026798	1	SLIDE KIT	

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FIGURE 6-7. DASH PANEL (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PY6010

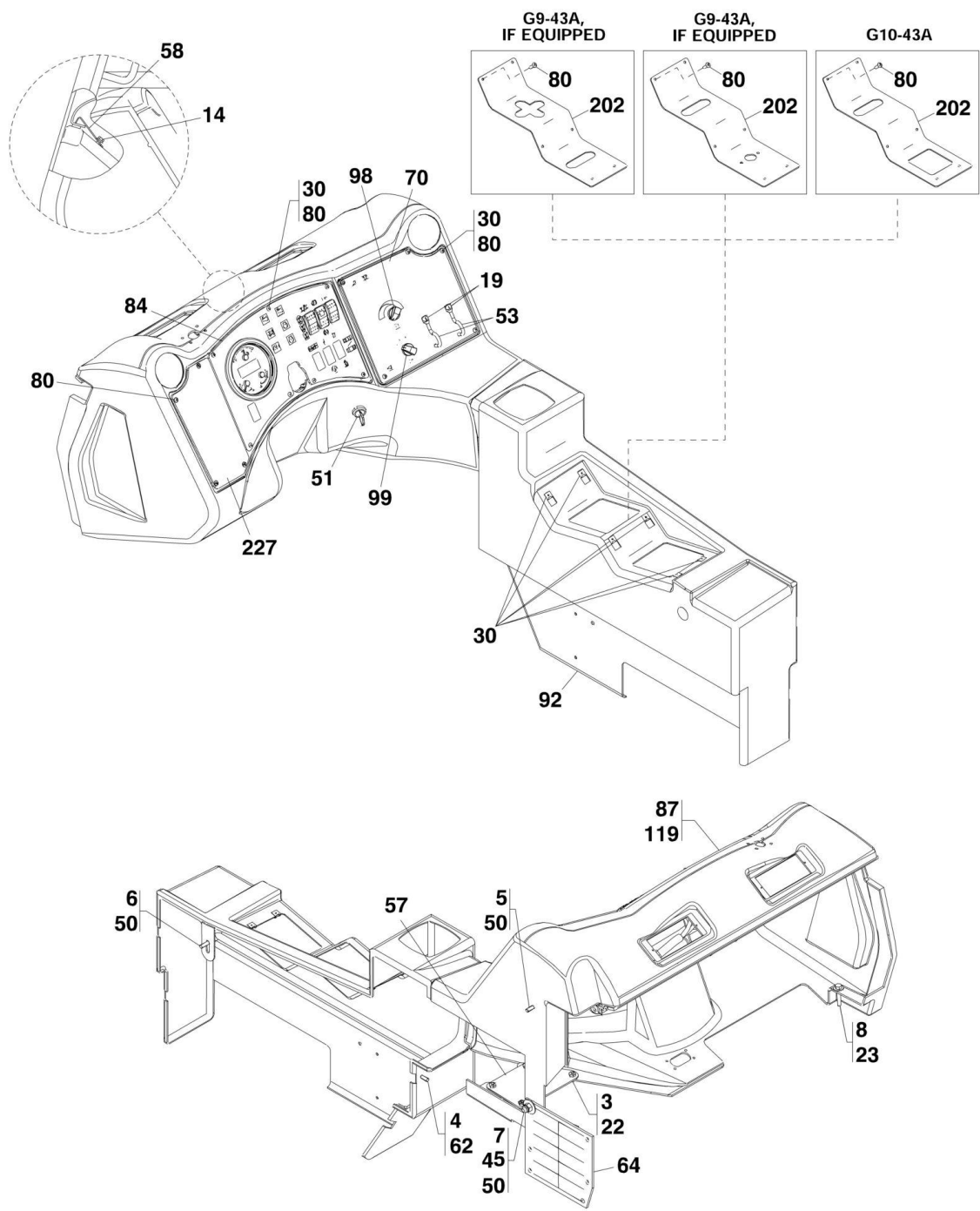
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FIGURE 6-7. DASH PANEL (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80363033	16	FLAT HD CAPSCREW, #10-24X1	
2	80363034	20	NUT	
3		Ref	INSTRUMENT PANEL, (See DASH PANEL for Breakdown)	
4	91403298	1	DASH, OPEN CAB (SN 0193001 through 0160001276)	
4	91473211	1	DASH, OPEN CAB (SN 0160001284 through 0160040674, Excluding 0160040468 and 0160040672)	
5	91163087	2	LOAD CHART BRACKET	
6	88302125	6	BUTTON HD CAPSCREW, 1/4-20X5/8	
7	91403324	1	BLANK DASH PANEL	
7	91403316	1	LH AUXILIARY DASH PANEL, (if equipped)	
8	88201002	4	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
9	88561002	4	FLAT WASHER, 1/4	
10	91401516	1	DASH BRACE	
11	91401590	1	DASH CLAMP	
12	80973025	2	WHIZ-LOCK BOLT, 3/8-16X1	
13	88201026	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
14	88201020	4	HEX HD CAPSCREW, 5/16-18X1, GR5	
15	88561003	5	FLAT WASHER, 5/16	
16	91083533	5	WASHER	
17	88201005	6	HEX HD CAPSCREW, 1/4-20X1, GR5	
18	91403620	1	RH CONSOLE (SN 0193001 through 0160015259)	
18	91403288	1	RH CONSOLE (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)	
19	91403326	1	TILT/SWAY PANEL (Prior to SN 0160000877)	
19	91413111	1	TILT/SWAY PANEL (SN 0160000877 through 0160040674)	
20	91413051	4	SELF TAPPING SCREW, #10X3/4	
21	91413050	2	WASHER	

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FIGURE 6-8. DASH PANEL (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-6-8

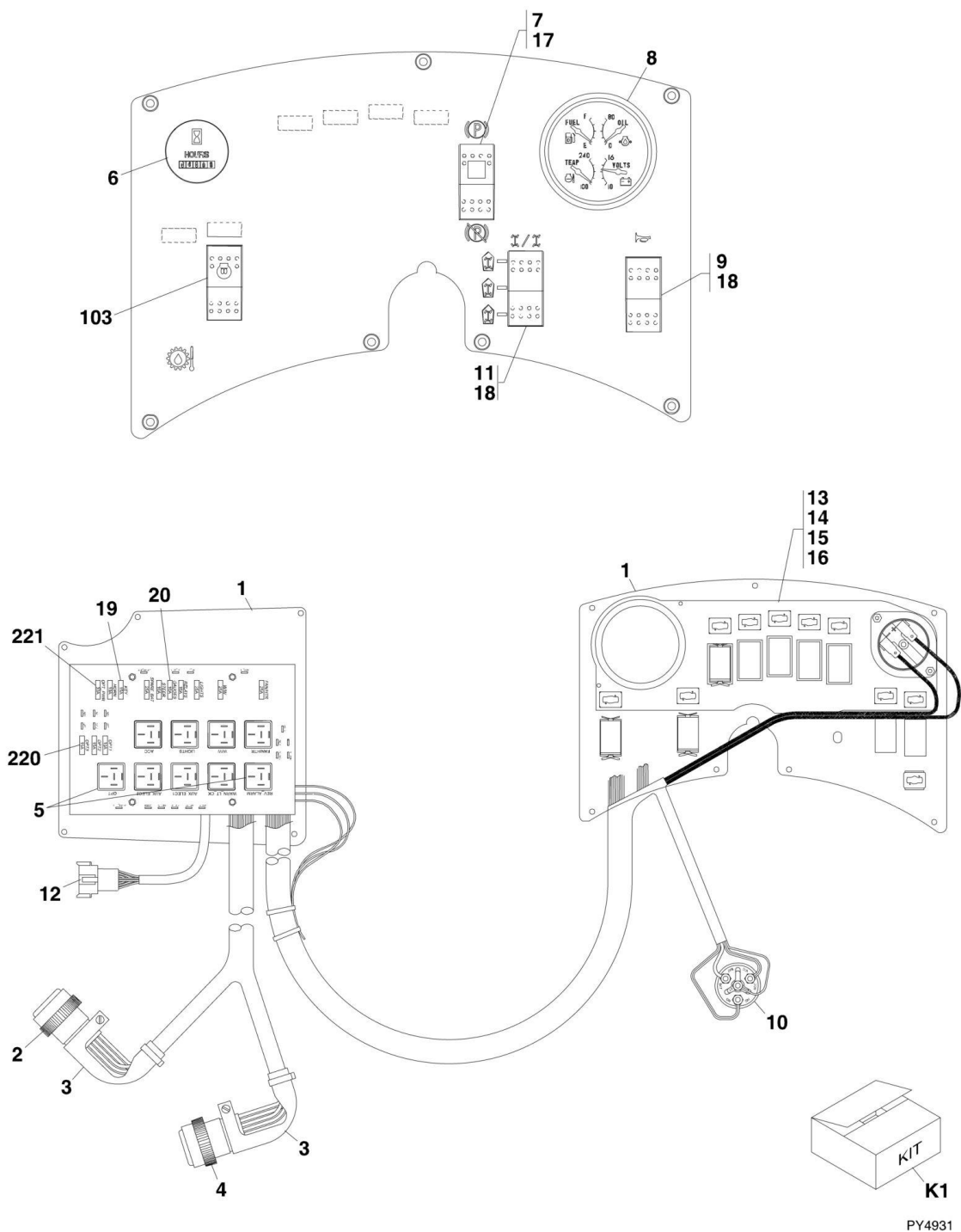
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FIGURE 6-8. DASH PANEL (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
4	0641408	1	HEX HD CAPSCREW, 1/4-20X1, GR5	
5	0641506	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
6	0641508	1	HEX HD CAPSCREW, 5/16-18X1, GR5	
7	0641510	1	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
8	0641514	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
14	0791608	2	SCREW, 3/8-16X1,	
19	3911410	2	ROUND HD CAPSCREW, 1/4-20X5/8	
22	4751400	4	WASHER, 1/4	
23	4751500	1	WASHER, 5/16	
30	80363034	22	TINNERMAN NUT, #10-24	
45	88521005	1	NUT, 5/16-18	
50	91023098	4	WASHER, 11/32	
51		Ref	IGNITION SWITCH, (includes keys), (See DASH PANEL for Breakdown)	
53	91163087	2	CAPACITY CHART BRACKET	
57	91401516	1	DASH BRACE	
58	91401590	1	DASH CLAMP	
62	91413050	1	WASHER	
64	91473163	1	HOSE GUARD	
70		Ref	RH INSTRUMENT PANEL, (See DASH PANEL for Breakdown)	
80	1001100322	22	PAN HD CAPSCREW, #10	
84		Ref	INSTURMENT PANEL, (See DASH PANEL for Breakdown)	
87	1001103553	1	ENCLOSED CAB DASH PANEL	
92	1001108890	1	RH CONSOLE PANEL	
98	1001151847	1	KNOB, HANDLE	
99	1001152326	1	KNOB, HANDLE	
119	91473211	1	OPEN CAB DASH PANEL	
202	1001107828	1	RH SIDE JOYSTICK PANEL (G9-43A)	
202	1001108252	1	RH SIDE JOYSTICK PANEL (G9-43A)	
202	1001110808	1	RH SIDE JOYSTICK PANEL (G10-43A)	
227	91403324	1	BLANK DASH PANEL (G9-43A)	
227	1001131808	1	LH DASH PANEL (G10-43A)	

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FIGURE 6-9. INSTRUMENT PANEL (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



NOTE: BLACK PLASTIC PANEL NOT AVAILABLE FOR SERVICE. MUST ORDER COMPLETE INSTRUMENT PANEL, 91473213, FOR REPLACEMENT.

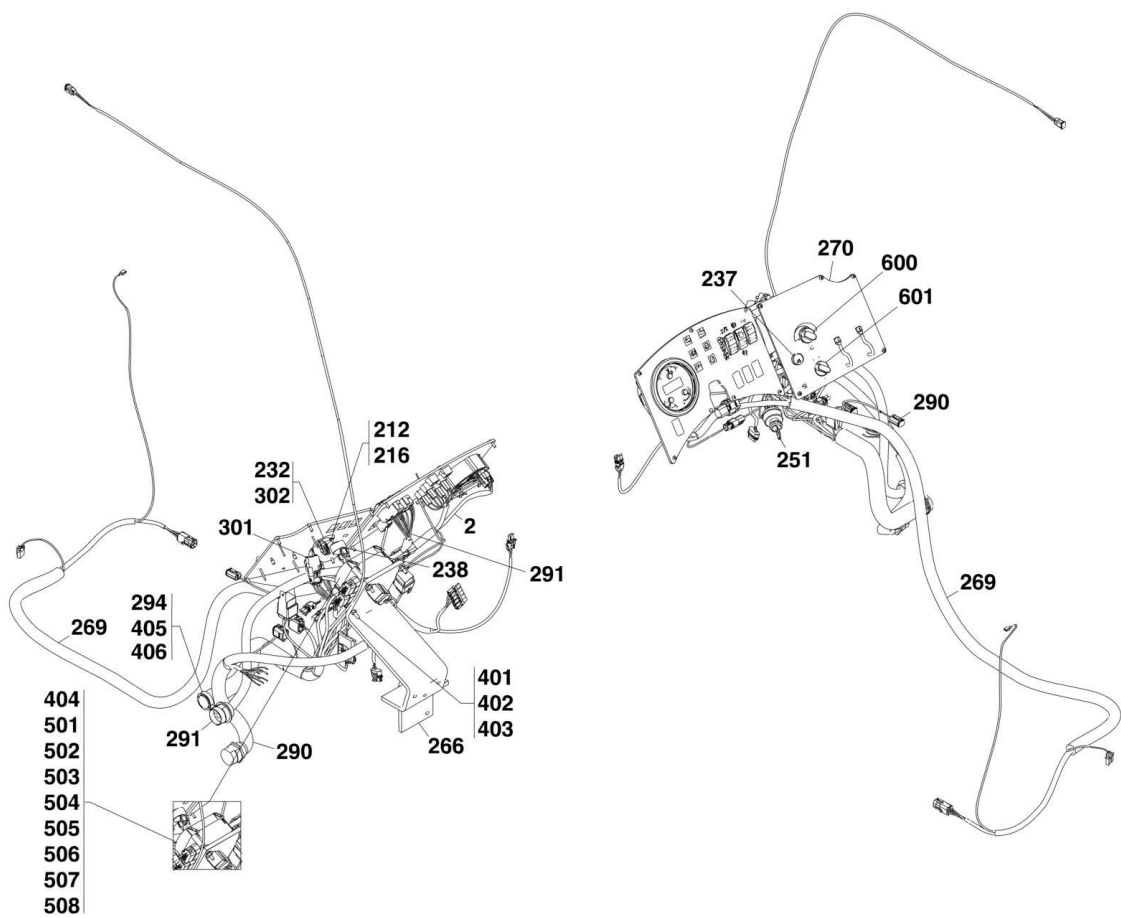
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FIGURE 6-9. INSTRUMENT PANEL (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

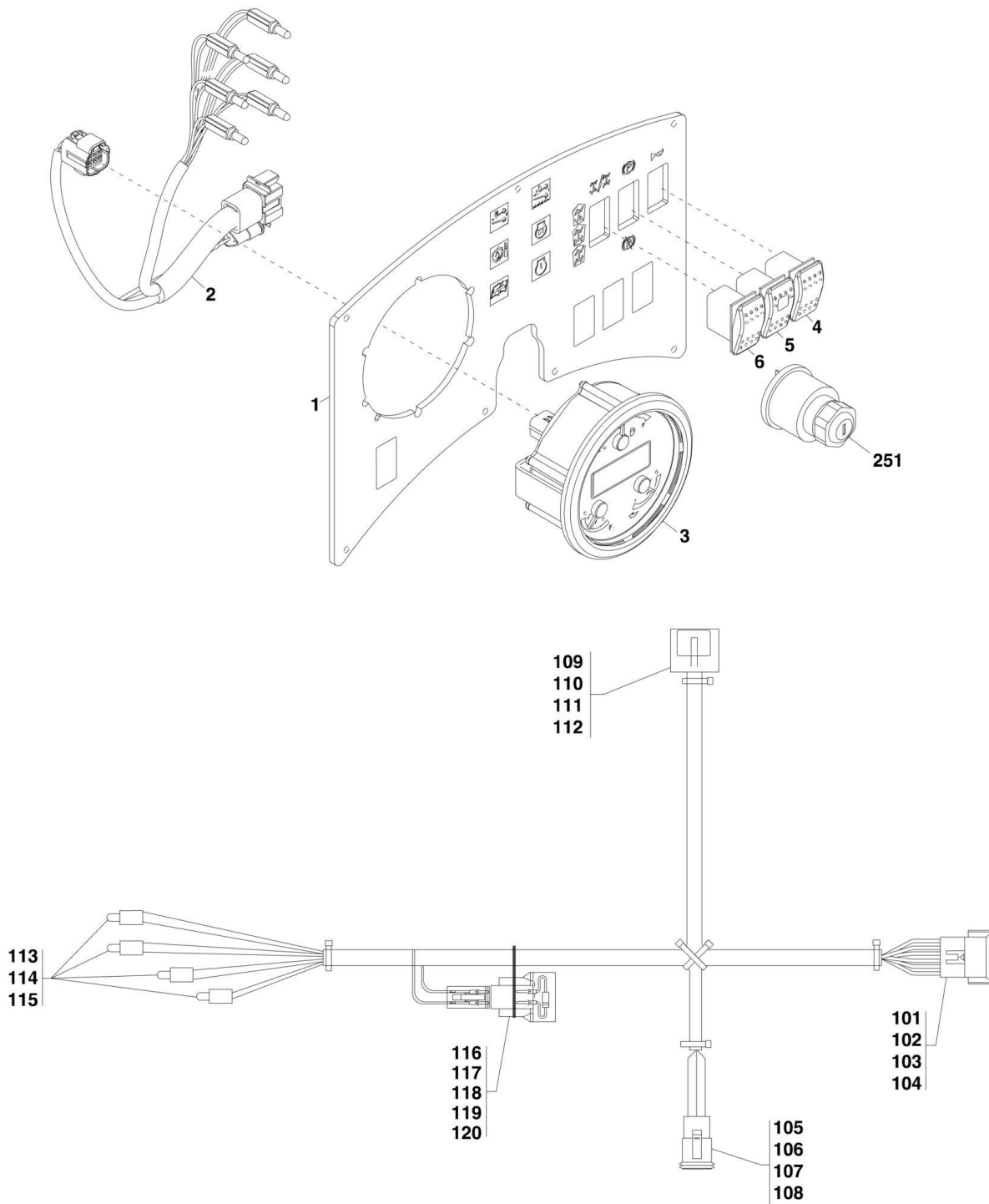
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91473213	1	INSTRUMENT PANEL, (includes items 2 thru 20) (Prior to SN 0160022217, Excluding 0160022115 and 0160022116)	
1	1001001519	1	INSTRUMENT PANEL, (includes items 2 thru 20) (SN 0160022217 to Present, Including 0160022115 and 0160022116)	
2	91334038	1	CONNECTOR	
3	91474463	2	STRAIN RELIEF, 90	
4	91404331	1	CONNECTOR	
5	77363265	AR	RELAY	
6	90205688	1	HOURLMETER	
7	91404329	1	PARK BRAKE SWITCH, (includes item 17)	
8	91404336	1	4 IN 1 GAUGE, (John Deere Engine)	
8	7029892	1	4 IN 1 GAUGE, (Perkins Engine)	
9	91404330	1	HORN SWITCH, (includes item 18)	
10	91033317	1	IGNITION SWITCH	
10	77384578	1	KEY	
11	91474464	1	STEER SELECT SWITCH, (includes item 18)	
12	91503105	1	RECEPTACLE	
13	91404333	1	SMALL GAUGE BRACKET	
14	91404332	1	LARGE GAUGE BRACKET	
15	91404334	4	LAMP ASSY, (includes item 16)	
16	91404335	4	BULB	
17	91404350	1	ACTUATOR	
18	91404349	2	ACTUATOR	
19	77363268	AR	15 AMP FUSE	
20	77363267	AR	10 AMP FUSE	
103	1001001515	1	PREHEAT SWITCH, (Perkins Engine) (SN 0160020803 through 0160040674)	
220	77363268	1	15A FUSE	
221	77363269	1	30A FUSE	
K1	70022611	1	INSTRUMENT PANEL ASSY, SPECIAL, (John Deere Engine), (includes PCB, components and wiring)	

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FIGURE 6-10. INSTRUMENT PANEL (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-6-10_1



ART_91514001-6-10_2

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FIGURE 6-10. INSTRUMENT PANEL (SN 0160040675 to Present, Including 0160040468 and 0160040672)

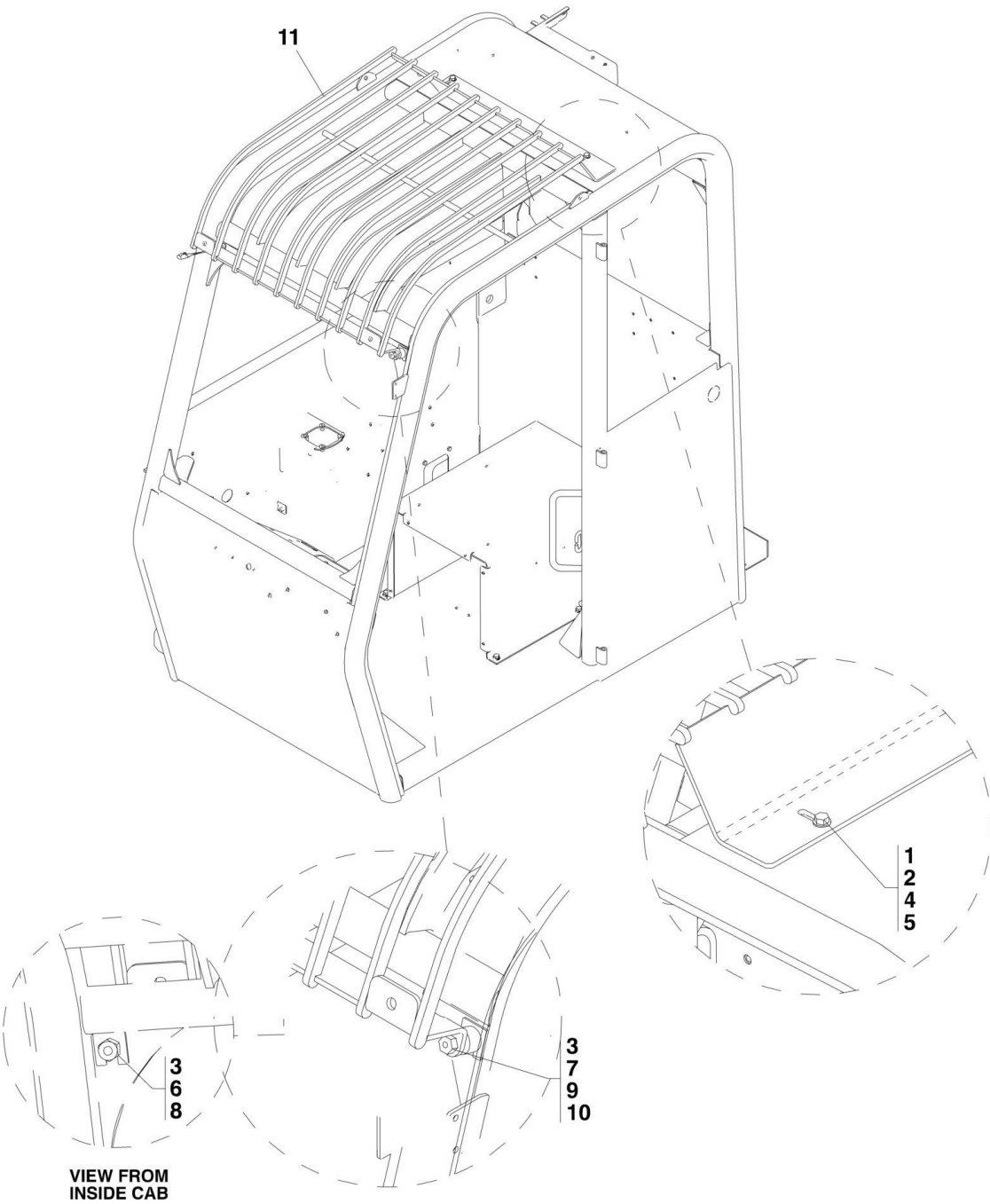
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101666	1	INSTRUMENT PANEL ASSY, (includes items 1 thru 6)	M
1	1001099378	1	INSTRUMENT PANEL	C
2	1001102815	1	INSTURMENT PANEL HARNESS, (includes items 101 thru 120)	
3	1001099163	1	3 IN 1 GAUGE ASSY	
4	7026440	1	HORN SWITCH	
5	91474465	1	PARK BRAKE SWITCH	
6	91473127	1	STEER SELECT SWITCH	
101	91503105	1	8 PIN RECEPTACLE	
102	91503106	1	WEDGELOCK	
103	77363228	1	TERMINAL	
104	4460466	1	PLUG	
105	N.S.S.	1	CONNECTOR	
106	70022691	1	WEDGE LOCK	
107	4460944	1	CONTACT	
108	N.S.S.	1	CONNECTOR	
109	N.S.S.	1	DOUBLE LOCK PLATE	
110	N.S.S.	1	SOCKET	
111	N.S.S.	1	WIRE SEAL	
112	N.S.S.	1	PLUG	
113	7026437	6	BULB BASE	
114	7026438	6	TERMINAL	
115	80484088	6	BULB	
116	4460884	1	4 PIN CONNECTOR	
117	80604021	1	WEDGE LOCK	
118	4460465	3	TERMINAL	
119	4460466	1	PLUG	
120	1001152266	1	4 PIN RECEPTACLE	
212	0740605	2	FLAT HD CAPSCREW, #6-32X0.62, (if equipped)	
216	3310601	2	HEX NUT, #6-32, GR2, (if equipped)	
232	1001151643	1	POTENTIOMETER ASSY, (10k ohms), (if equipped), (includes items 301 & 302)	
237	80963101	1	WIPER SWITCH	
238	80964001	1	BLOWER SWITCH, (if equipped)	
246	88691387	1	TUBING CLIP	
251	91033317	1	IGNITION SWITCH	
251	77384578	1	KEY	
266		Ref	ACCELERATOR PEDAL BRACKET, (See CONTROLS SECTION for Breakdown)	
269		Ref	ENCLOSED CAB HARNESS, (See ELECTRICAL SECTION for Breakdown)	
270	91563191	1	RH INSTRUMENT PANEL (Prior to SN 0160056012)	
270	1001156272	1	RH INSTRUMENT PANEL (SN 0160056012 to Present)	
290		Ref	CAB HARNESS, (See ELECTRICAL SECTION for Breakdown)	
291		Ref	CAB DASH HARNESS, (See ELECTRICAL SECTION for Breakdown)	
294	1001115891	Ref	POWER DISTRUTION INSTALLATION, (not available to order, see items 401 thru 406 for service)	A
301	80363208	1	POTENTIOMETER HARNESS, (if equipped)	
302	1001145206	1	POTENTIOMETER, 10k ohms, (if equipped)	
401	0641412	4	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
402	3311401	4	HEX NUT, 1/4-20, GR2	C
403	4751200	4	FLAT WASHER, 1/4	
404	1001092849	1	VEC BOX ASSY, (includes items 501 thru 508)	
405		Ref	VEC BOX HARNESS, (See ELECTRICAL SECTION for Breakdown)	
406	4240033	2	TIE WRAP	
501	70021478	1	COVER	
502	70021485	1	LABEL	
503	70020898	8	5-PIN MICRO RELAY	
504	8229242	1	5 AMP MINI FUSE	
505	8093191	2	10 AMP MINI FUSE	
506	8093192	1	15 AMP MINI FUSE	
507	8229246	3	20 AMP MINI FUSE	
508	8229247	1	25 AMP MINI FUSE	
600	1001151847	1	KNOB, (if equipped)	
601	1001152326	1	KNOB, (if equipped)	

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FIGURE 6-11. TOP CAB GLASS SHIELD



PAP11510

FIGURE 6-11. TOP CAB GLASS SHIELD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100879	Ref	TOP CAB GLASS SHIELD INSTALLATION, (not available to order, see items 1 thru 11 for service)	B
1	0641608	2	HEX HD CAPSCREW, 3/8-16X1	
2	3271601	2	HEX NUT, 3/8-16, GR8	
3	4071133	4	WASHER	
4	4711600	4	WASHER, 3/8	
5	4761600	2	LOCKWASHER, 3/8	
6	4761800	2	LOCKWASHER, 1/2	
7	14404173	AR	SEALANT	
8	88501008	2	HEX NUT, 1/2-13	
9	91403503	2	SPACER	
10	1001096728	2	BOLT, 1/2-13	
11	1001098344	1	BRACKET	

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FIGURE 6-12. FRONT CAB GLASS SHIELD

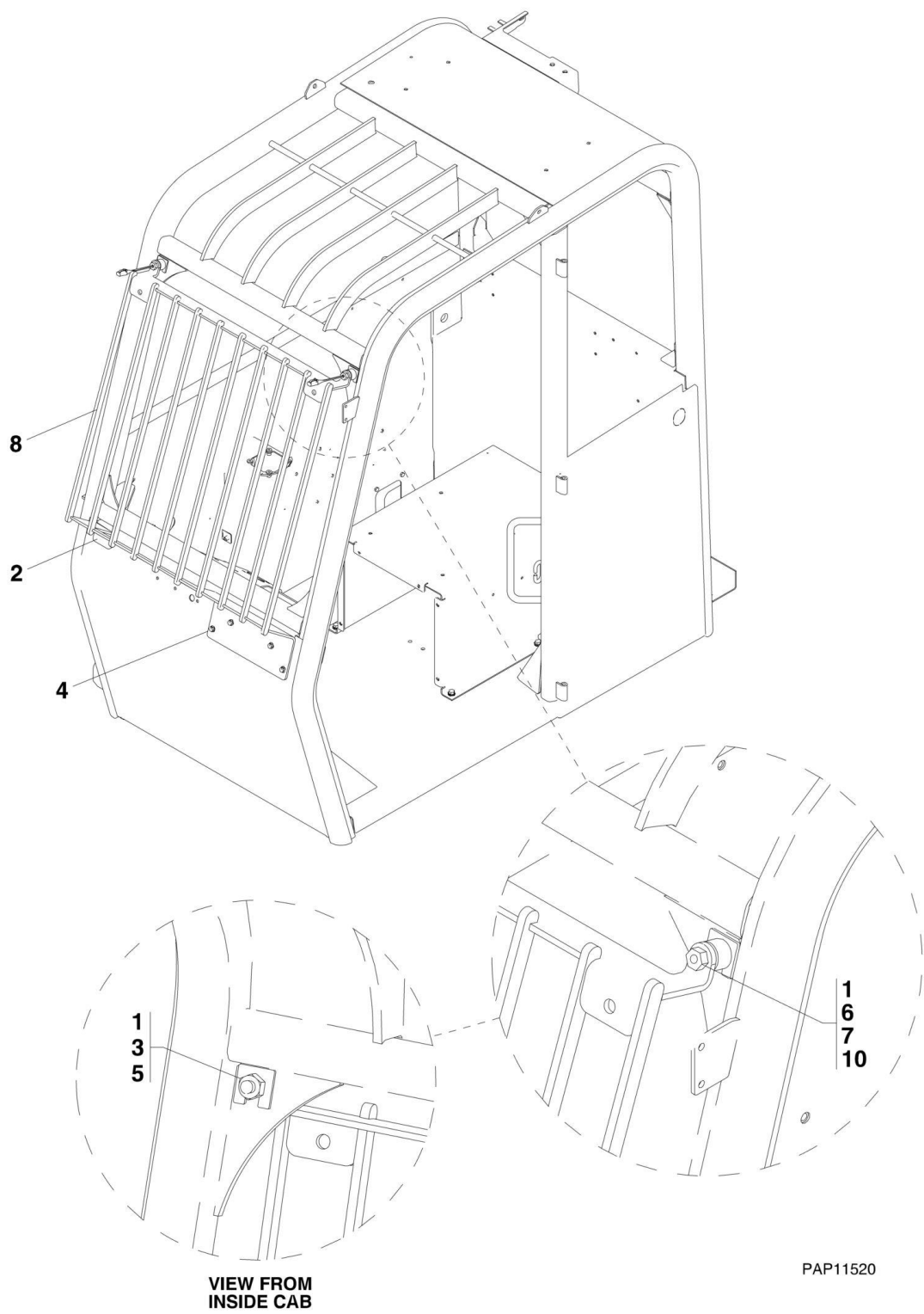
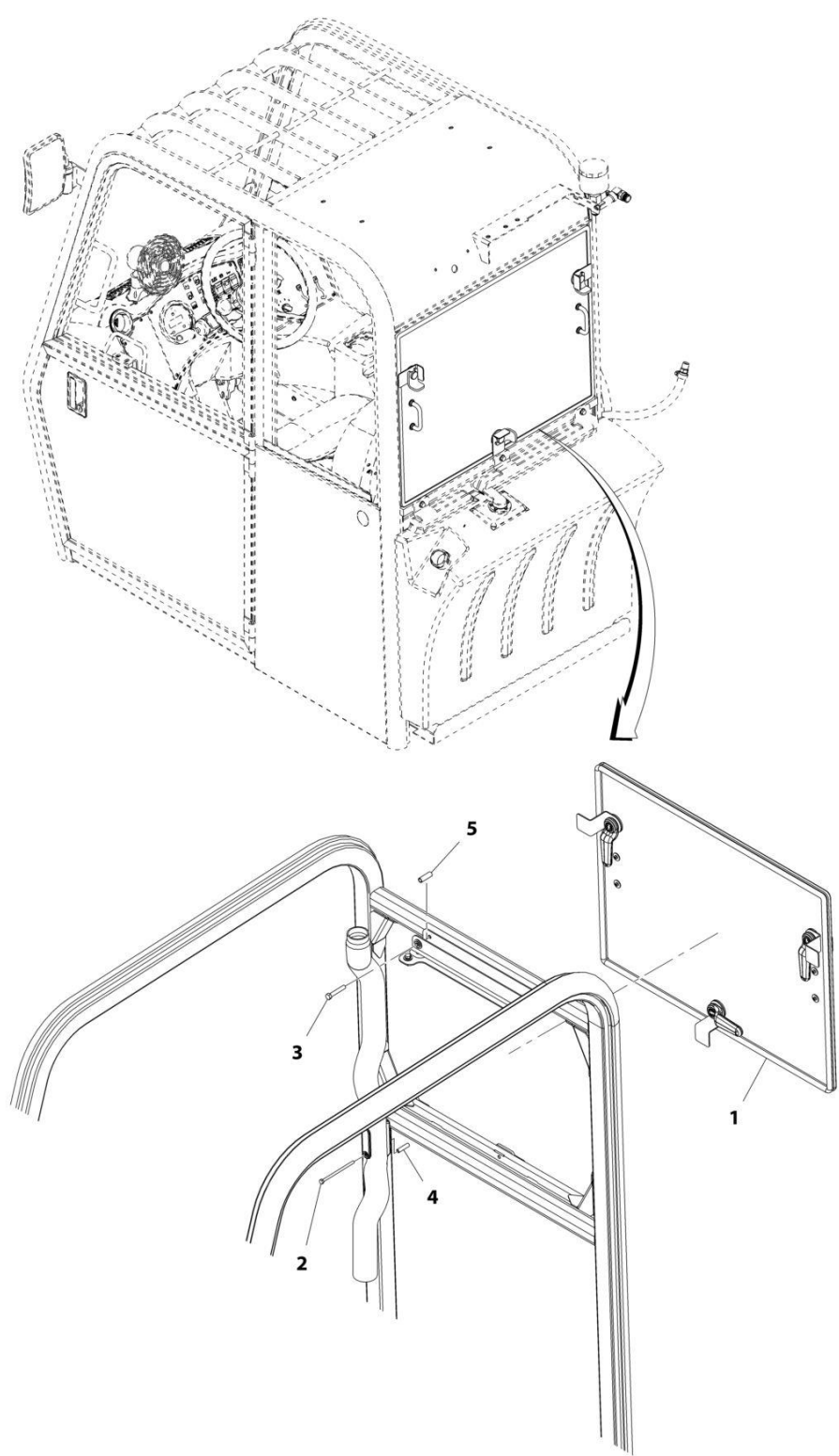


FIGURE 6-12. FRONT CAB GLASS SHIELD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100880	Ref	FRONT CAB GLASS SHIELD INSTALLATION, (not available to order, see items 1 thru 10 for service)	B
1	4071133	4	WASHER	
2	4420060	1	FOAM TAPE	
3	4761800	2	LOCKWASHER, 1/2	
4	77143003	4	SCREW, 5/16-18X5/8	
5	88501008	2	HEX NUT, 1/2-13	
6	91403503	2	SPACER	
7	1001096728	2	BOLT, 1/2-13	
8	1001098042	1	BRACKET	
10	14404173	AR	SEALANT	

SECTION 6 - CAB

FIGURE 6-13. REAR WINDOW EXIT INSTALLATION



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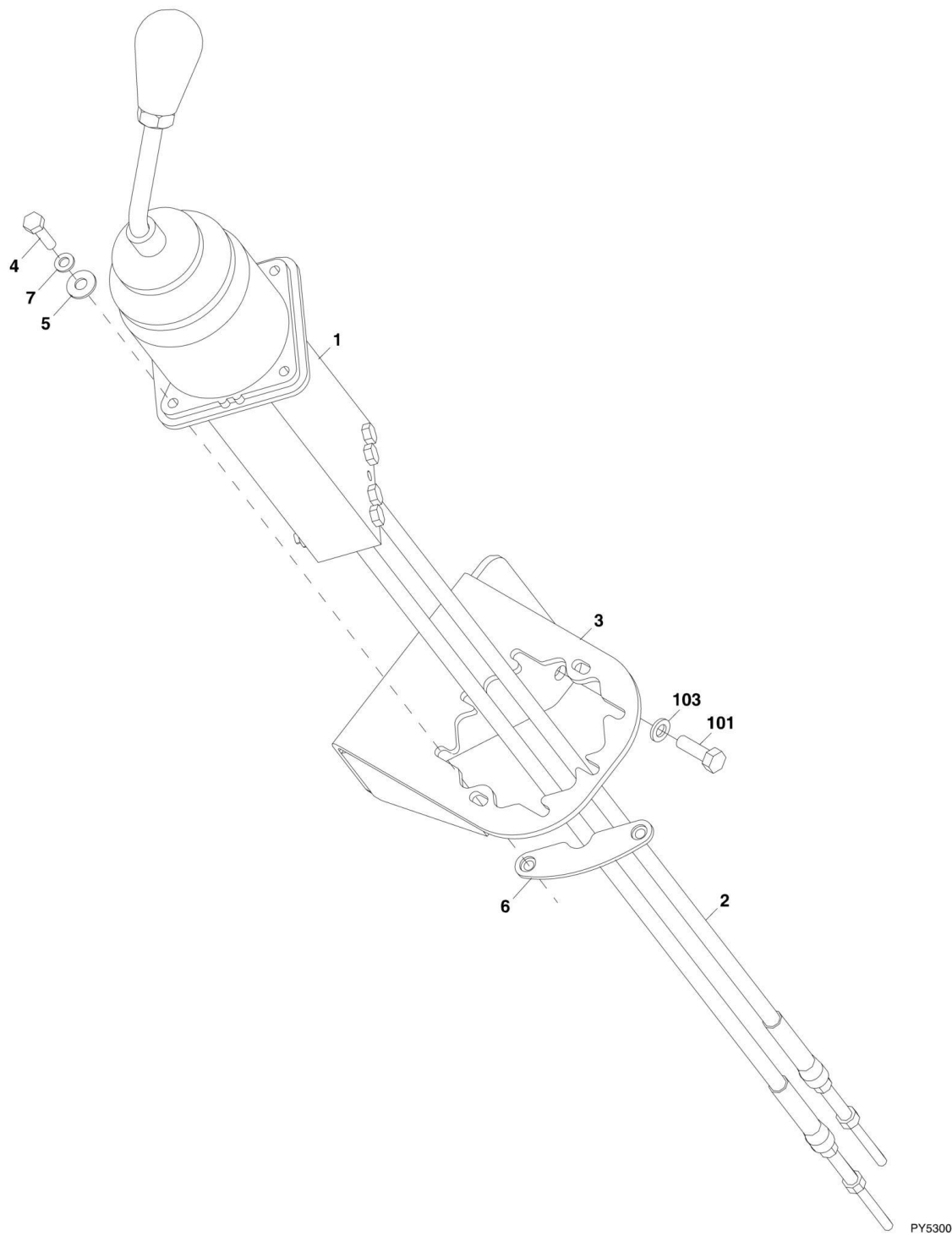
FIGURE 6-13. REAR WINDOW EXIT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159949	Ref	REAR WINDOW EXIT INSTALLATION	B
1	1001160889	1	WINDOW, REAR	
2	0641436	1	BOLT, 1/4-20X4 1/2	
3	0641617	2	BOLT, 3/8-16X2 1/8	
4	1001165578	1	SHIM, AC TUBE SPACER	
5	1001165579	2	SHIM, AC BLOWER SPACER	

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FIGURE 7-1. TILT AND FRAME LEVEL JOYSTICK INSTALLATION



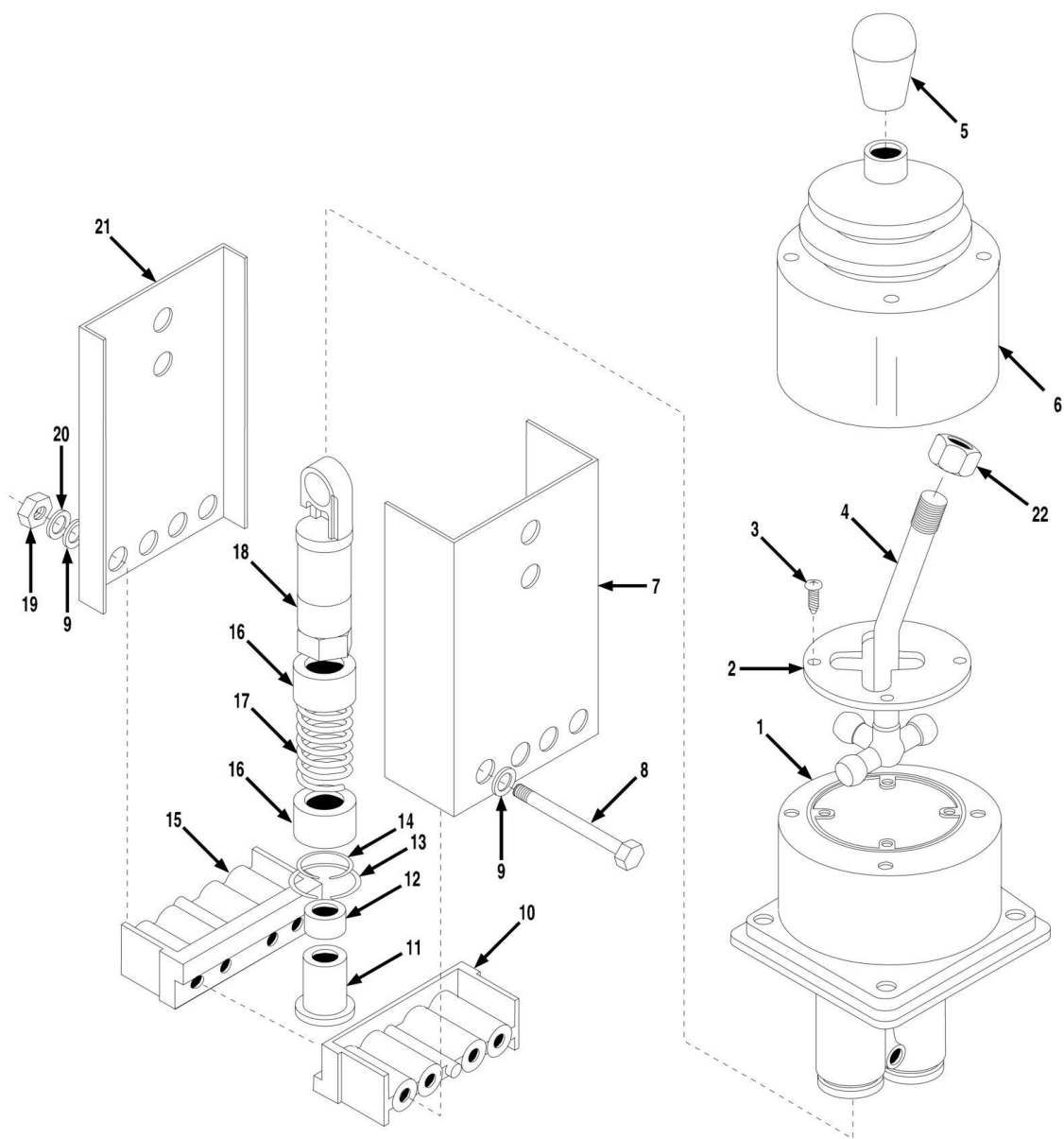
SECTION 7 - CONTROLS

FIGURE 7-1. TILT AND FRAME LEVEL JOYSTICK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475033	Ref	TILT AND FRAME LEVEL JOYSTICK INSTALLATION (not available to order, see items 1 thru 7 for service) (G10-43A Prior to SN 0160040675; Excluding 0160040468 and 0160040672)	F
1		Ref	TILT AND SWAY JOYSTICK ASSY, (See TILT AND SWAY JOYSTICK ASSEMBLY for Breakdown)	
2	91473146	2	CONTROL CABLE	
3	91416013	1	RH CONTROL BRACKET	
4	88201006	4	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5	
5	88561107	4	FLAT WASHER, 1/4	
6	91416017	2	WELD NUT PLATE WELDMENT	
7	88551009	4	LOCKWASHER, 1/4	
101	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
103	4761500	3	LOCKWASHER, 5/16	

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FIGURE 7-2. TILT AND SWAY JOYSTICK ASSEMBLY



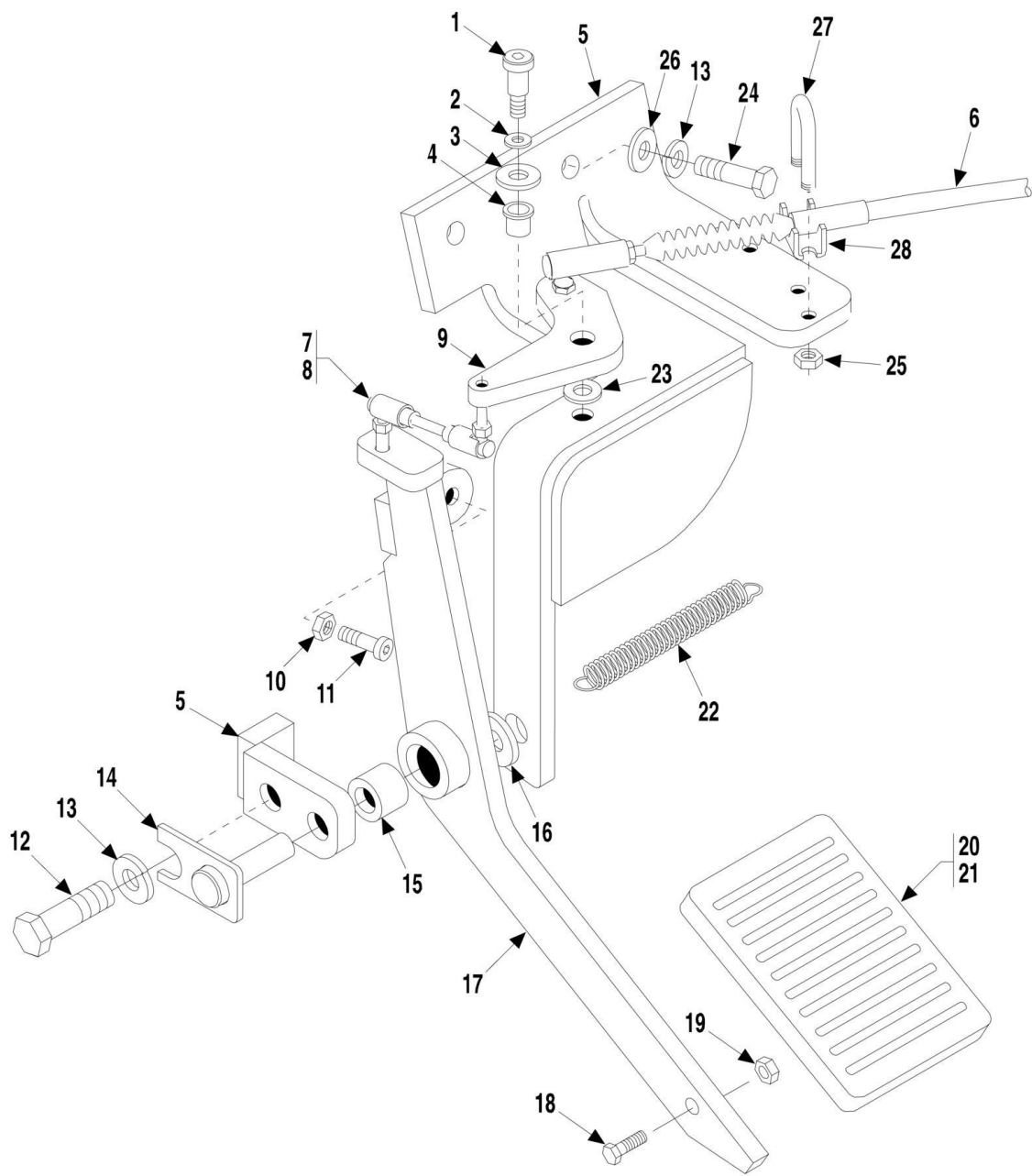
SECTION 7 - CONTROLS

FIGURE 7-2. TILT AND SWAY JOYSTICK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91403178	1	TILT/SWAY JOYSTICK ASSEMBLY (G10-43A Prior to SN 0160040675; Excluding 0160040468 and 0160040672)	G
1	91404207	1	HOUSING	
2	91404088	1	RESTRICTOR PLATE	
3	91404089	4	SELF-TAPPING SCREW, #10X3/4	
4	91404208	1	INPUT LEVER ASSY	
5	91404091	1	KNOB	
6	8160419	1	BOOT	
7	91404093	1	HOUSING, (outer)	
8	91404094	6	HEX HD CAPSCREW	
9	91404095	12	FLAT WASHER	
10	91404096	1	CABLE ANCHOR, (inner)	
11	91404097	2	CABLE LOCK SCREW	
12	91404098	2	CABLE BUSHING	
13	91404099	2	RETAINING RING	
14	91404100	2	RETAINING RING	
15	91404101	1	CABLE ANCHOR, (outer)	
16	91404102	4	BUSHING	
17	91404103	2	SPRING	
18	91404209	2	SLIDER ASSY	
19	91404105	6	HEX NUT, 1/4-20	
20	91404106	6	LOCKWASHER	
21	91404107	1	HOUSING, (inner)	
22	91404210	1	JAM NUT	

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FIGURE 7-3. ACCELERATOR PEDAL INSTALLATION (Prior to SN 0160001378, Excluding 0160001280)



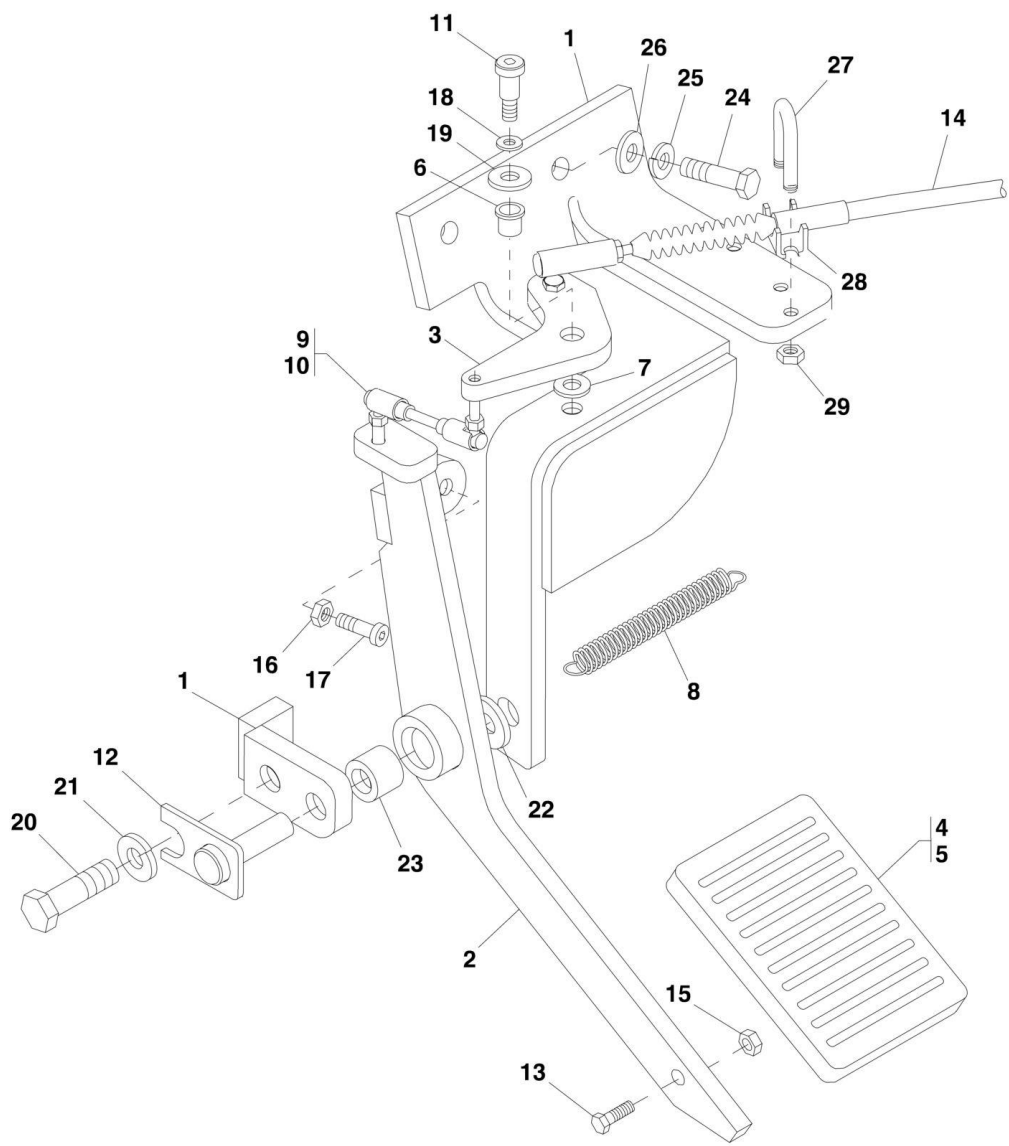
SECTION 7 - CONTROLS

FIGURE 7-3. ACCELERATOR PEDAL INSTALLATION (Prior to SN 0160001378, Excluding 0160001280)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475027	Ref	ACCELERATOR PEDAL INSTALLATION, (not available to order, see items 1 thru 12, 1 of item 13, 14 thru 23, 25, 27 & 28 for service)	E
1	88251019	1	SOCKET HD SHOULDER SCREW, 3/8X5/8, GR8	C
2	90028946	1	WAVE WASHER	
3	88561109	1	FLAT WASHER, 3/8	
4	91403473	1	FLANGE BUSHING	
5	91476027	1	ACCELERATOR PEDAL BRACKET	
6	91473099	1	ACCELERATOR CABLE, (includes items 25, 27 & 28)	
7	91403476	1	STUD, #10-32X1-1/4	
8	91403521	2	BALL JOINT, 1/4-28	
9	91406139	1	ACCELERATOR BELL CRANK	
10	88501006	1	HEX NUT, 3/8-16	
11	88211073	1	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8	
12	88201018	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
13	88551010	3	LOCKWASHER, 5/16	
14	91406148	1	PIVOT PIN	
15	91083136	2	BUSHING	
16	88561108	1	FLAT WASHER, 5/16	
17	91406147	1	ACCELERATOR PEDAL ARM	
18	88201005	1	HEX HD CAPSCREW, 1/4-20X1, GR5	
19	88521304	1	LOCKNUT, 1/4-20	
20	91401423	1	PEDAL	
21	80263108	1	PEDAL PAD	
22	91413014	1	EXTENSION SPRING	
23	91403474	1	FLAT WASHER	
24	88201020	2	HEX HD CAPSCREW, 5/16-18X1, GR5	
25	91404213	2	HEX NUT	
26	4751500	2	FLAT WASHER, 5/16	
27	91404211	1	U-BOLT	
28	91404212	1	SADDLE	

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FIGURE 7-4. ACCELERATOR PEDAL INSTALLATION (SN 0160001378 through 0160038394, Including 0160001280)



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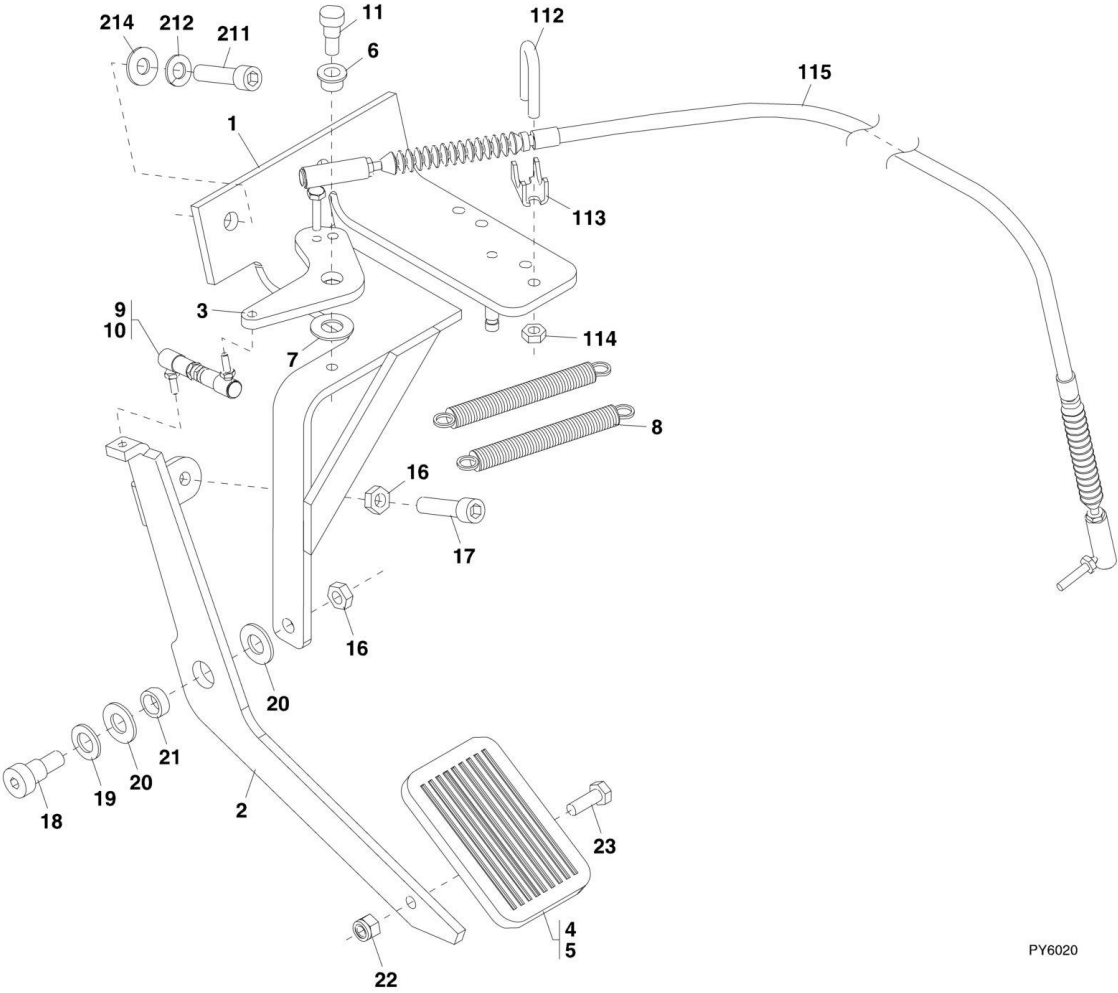
SECTION 7 - CONTROLS

FIGURE 7-4. ACCELERATOR PEDAL INSTALLATION (SN 0160001378 through 0160038394, Including 0160001280)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475091	Ref	ACCELERATOR PEDAL INSTALLATION, (not available to order, see items 1 thru 23 for service)	D
1	91476053	1	ACCELERATOR PEDAL BRACKET	
2	91406147	1	ACCELERATOR PEDAL ARM	
3	91406139	1	ACCELERATOR BELL CRANK	
4	91401423	1	PEDAL	
5	80263108	1	PEDAL PAD	
6	91403473	1	FLANGE BUSHING	
7	91403474	1	TEFLON WASHER	
8	4160215	1	EXTENSION SPRING	
9	91403476	1	STUD, 10-32X1-1/4	
10	91403521	2	BALL JOINT, 1/4-28	
11	88251019	1	SOCKET BOLT, 3/8X5/8	
12	91406148	1	PIVOT PIN	
13	88201005	1	HEX HD CAPSCREW, 1/4-20X1	
14	91473219	1	ACCELERATOR CABLE	
15	88521304	1	LOCKNUT, 1/4-20	
16	88501006	1	HEX NUT, 3/8-16	
17	88211073	1	SOCKET HD CAPSCREW, 3/8-16X1-1/2	
18	90028946	1	WAVE WASHER, 3/8	
19	88561109	1	WASHER, 3/8	
20	88201018	1	HEX HD CAPSCREW, 5/16-18X3/4	
21	88551010	1	LOCKWASHER, 5/16	
22	88561108	1	FLAT WASHER, 5/16	
23	91083136	2	BUSHING	
24	88201020	2	HEX HD CAPSCREW, 5/16-18X1, GR5	
25	88551010	2	LOCKWASHER, 5/16	
26	4751500	2	FLAT WASHER, 5/16	
27	91404211	1	U-BOLT	
28	91404212	1	SADDLE	
29	91404213	2	HEX NUT	

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FIGURE 7-5. ACCELERATOR PEDAL INSTALLATION (SN 0160038525 through 0160040674,
Excluding 0160040468 and 0160040672)



PY6020

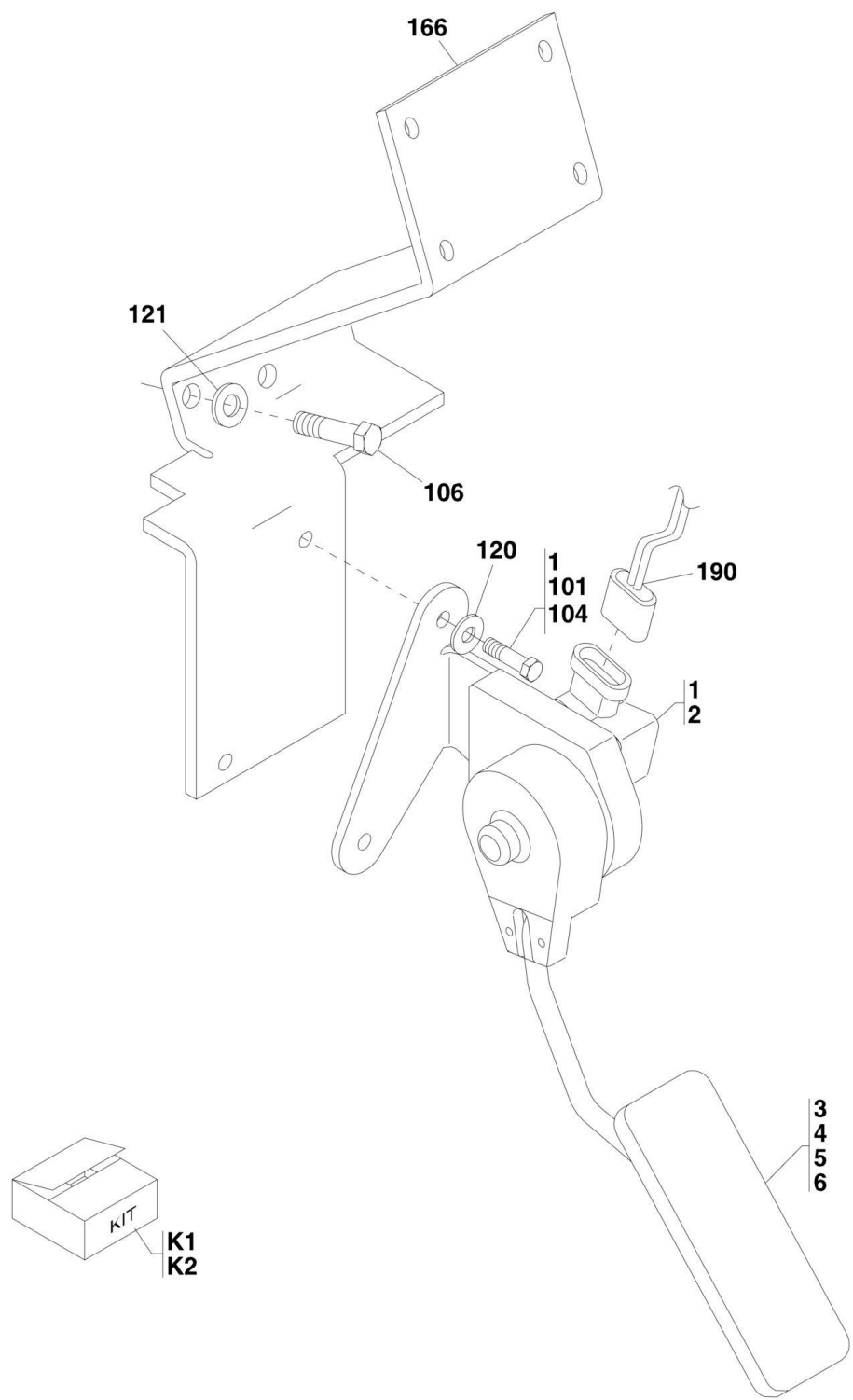
SECTION 7 - CONTROLS

**FIGURE 7-5. ACCELERATOR PEDAL INSTALLATION (SN 0160038525 through 0160040674,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001102561	1	ACCELERATOR PEDAL INSTALLATION, (not available to order, see items 1 thru 23 service)	A
1	70023836	1	ACCELERATOR PEDAL BRACKET	
2	70023837	1	ACCELERATOR PEDAL ARM	
3	70023838	1	ACCELERATOR BELL CRANK	
4	70023839	1	PEDAL	
5	70023840	1	PEDAL PAD	
6	70023841	1	FLANGE BUSHING	
7	70023842	1	TEFLON WASHER	
8	70023843	2	EXTENSION SPRING	
9	70023844	1	STUD, 10-32X1-1/4	
10	70023845	2	BALL JOINT, 1/4-28	
11	70023846	1	SOCKET HD SHOULDER SCREW	
16	70023847	2	HEX NUT, 3/8-16	
17	70023848	1	SOCKET HD CAPSCREW, 3/8-16X1-1/2	
18	70023849	1	SOCKET HD SHOULDER SCREW	
19	70023850	1	MACHINE BUSHING	
20	70023851	2	NYLON WASHER	
21	70023852	1	BUSHING	
22	70023853	1	STOP HEX NUT, 5/16-18	
23	70023854	1	HEX HD CAPSCREW, 5/16-18X7/8	
112	91404211	1	U-BOLT	B
113	91404212	1	SADDLE	
114	91404213	2	STOP HEX NUT	
115	91473219	1	ACCELERATOR CABLE, (includes items 112 thru 114)	
211	88201020	2	HEX HD CAPSCREW, 5/16-18X1, GR5	
212	4761500	2	LOCKWASHER, 5/16	
214	4751500	2	FLAT WASHER, 5/16	

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FIGURE 7-6. ACCELERATOR PEDAL INSTALLATION (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PAP18320

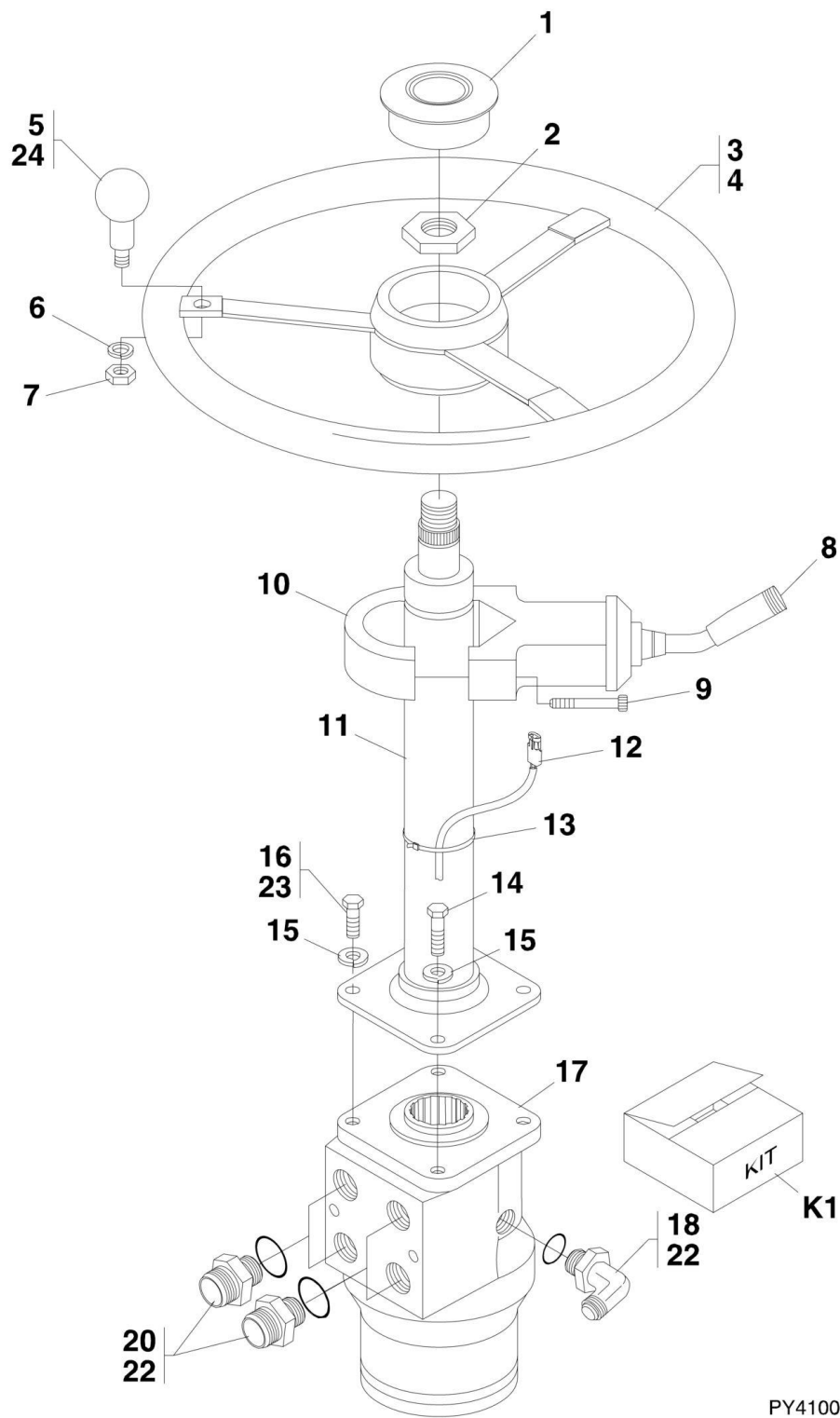
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FIGURE 7-6. ACCELERATOR PEDAL INSTALLATION (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	80383410	1	ACCELERATOR PEDAL INSTALLATION, (not available to order, see items 1 thru 6 for service)	1
1	N.S.S.	2	SCREW	
2	N.S.S.	1	SENSOR	
3	N.S.S.	1	PEDAL	
4	N.S.S.	1	PEDAL SPRING	
5	7026481	1	PEDAL ARM	
6	N.S.S.	1	PEDAL PIN	
101	0100011	AR	LOCTITE 242	
104	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
106	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
120	4711400	2	FLAT WASHER, 1/4	
121	4711500	3	FLAT WASHER, 5/16	
166	91561192	1	ACCELERATOR BRACKET	
190		Ref	CAB HARNESS, (See ELECTRICAL SECTION for Breakdown)	
K1	70023325	1	PEDAL KIT, (includes items 3, 4 & 6)	
K2	70020551	1	SENSOR KIT, (includes items 1 & 2)	

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FIGURE 7-7. STEERING COLUMN AND ATTACHING PARTS (Prior to SN 0160040675, Excluding 0160040468 and 016004062)



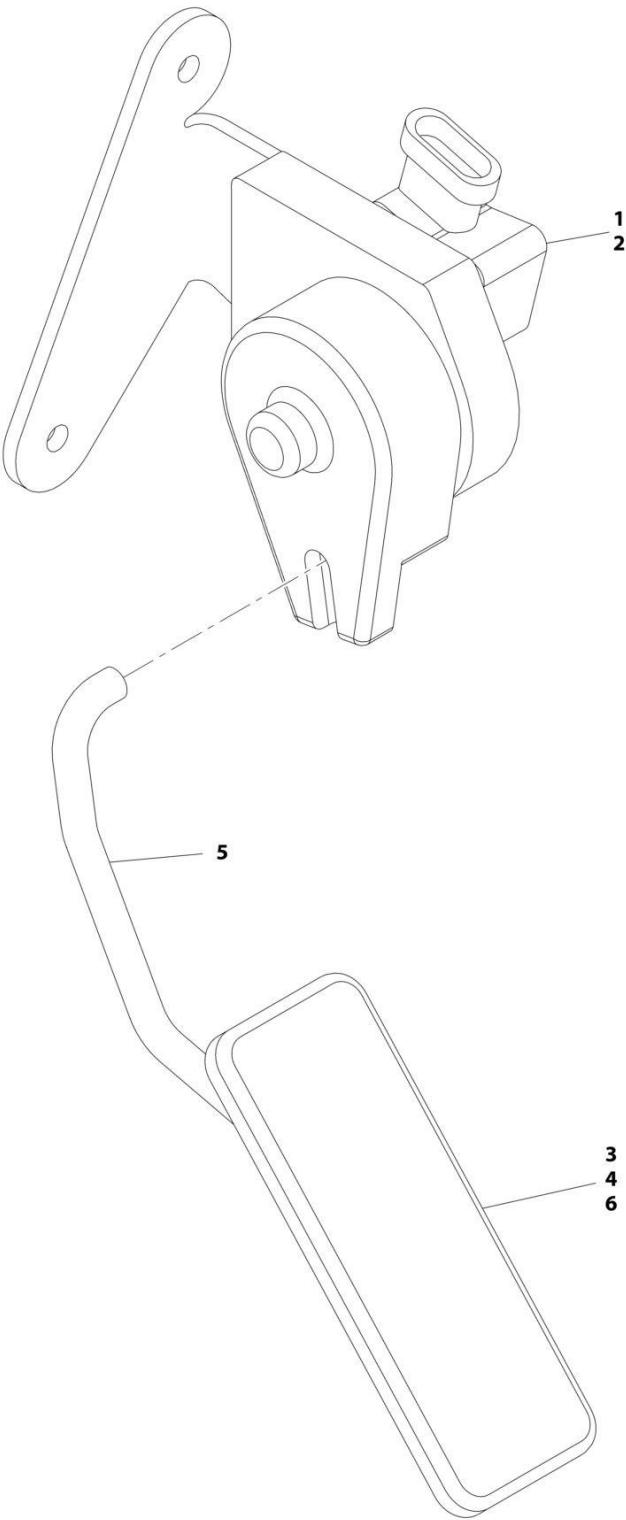
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FIGURE 7-7. STEERING COLUMN AND ATTACHING PARTS (Prior to SN 0160040675, Excluding 0160040468 and 016004062)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515033	Ref	STEERING CONTROL ASSY, (not available to order, see items 11, 16, 17, 18, 20, 22 & 23 and two of item 15 for service)	B
1	7026477	1	HORN CAP	
2	70020923	1	STEERING WHEEL NUT, (torque to 29-34 lb-ft)	
3	91475048	Ref	STEERING WHEEL ASSY, (not available to order, see items 4 & 5 for service)	B
4	91563208	1	STEERING WHEEL, (includes items 1 & 24)	F
5	91413016	1	SPINNER KNOB, (includes items 6 & 7)	
6	91414028	1	LOCKWASHER, 1/2	
7	91414029	1	HEX NUT, 1/2-13	
8	91473031	1	SHIFTER, (includes items 9 & 10)	
9	83191059	2	SOCKET HD CAPSCREW, M5X0.8, (torque to 30-35 lb-ft)	
10	NSS	1	CLAMP SET	
11	91513125	1	STEERING COLUMN	
12		Ref	INSTRUMENT PANEL HARNESS, (See CAB SECTION for Breakdown)	
13	86683122	2	TIE WRAP	
14	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
15	4761600	4	LOCKWASHER, 3/8	
16	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
17	91123126	1	STEERING CONTROL UNIT	
18	2220466	1	ELBOW, 90, (includes o-ring)	
20	2220373	4	CONNECTOR, (includes o-ring)	
22	0100075	AR	LOCTITE 545	
23	0100011	AR	LOCTITE 242	
24	7026478	1	SPINNER KNOB	
K1	91144190	Ref	STEERING CONTROL UNIT SEAL KIT	

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FIGURE 7-8. ACCELERATOR PEDAL INSTALLATION



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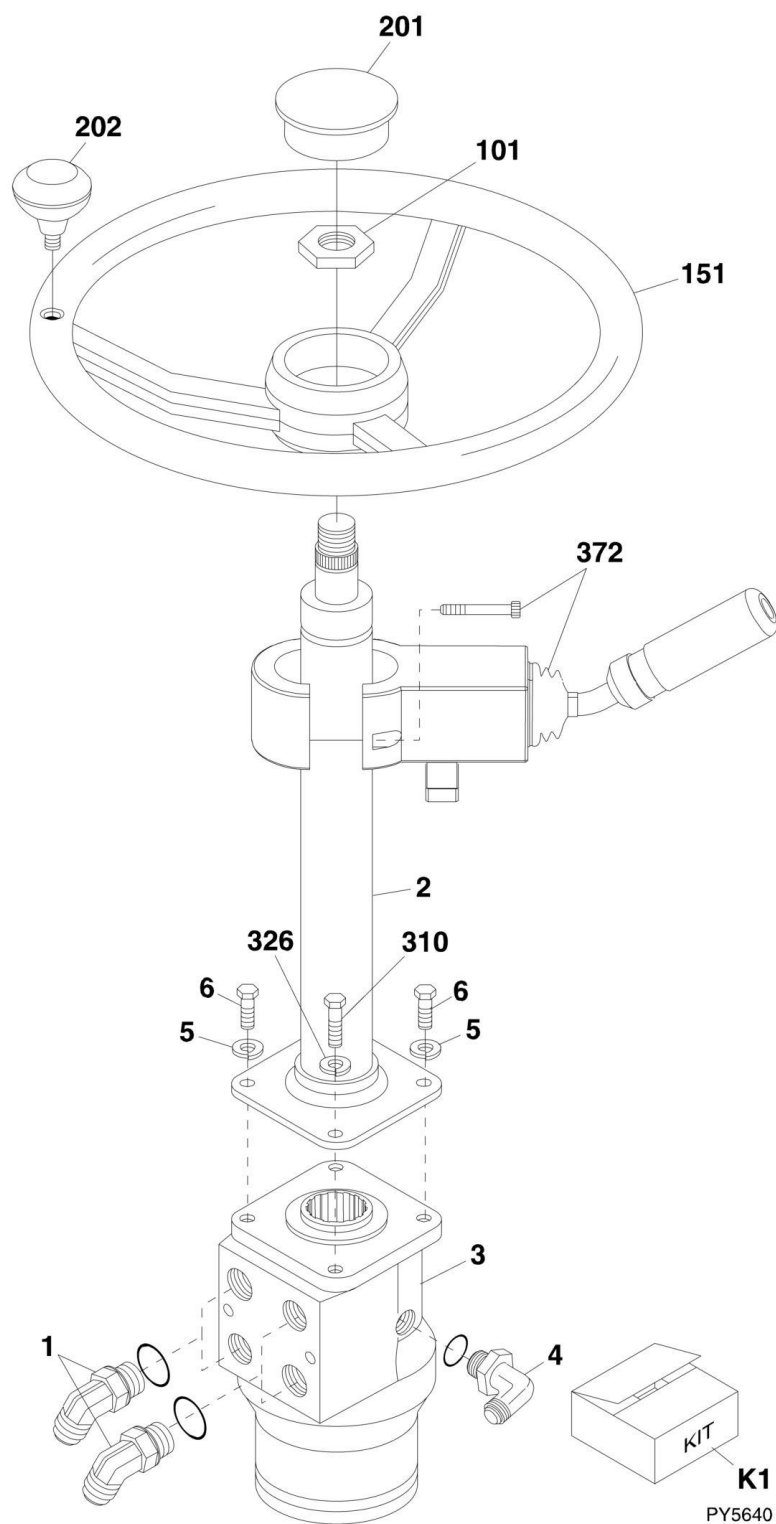
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FIGURE 7-8. ACCELERATOR PEDAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001126589	1	ACCELERATOR PEDAL	B
1	70024319	1	SENSOR KIT, (INCLUDES SCREWS)	
2	N.S.S.	1	BRACKET	
3	70023325	1	PEDAL KIT, (INCLUDES ITEMS 4 & 6)	
4	N.S.S.	1	PEDAL SPRING	
5	7026481	1	PEDAL ARM	
6	N.S.S.	1	PEDAL PIN	

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FIGURE 7-9. STEERING COLUMN AND ATTACHING PARTS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



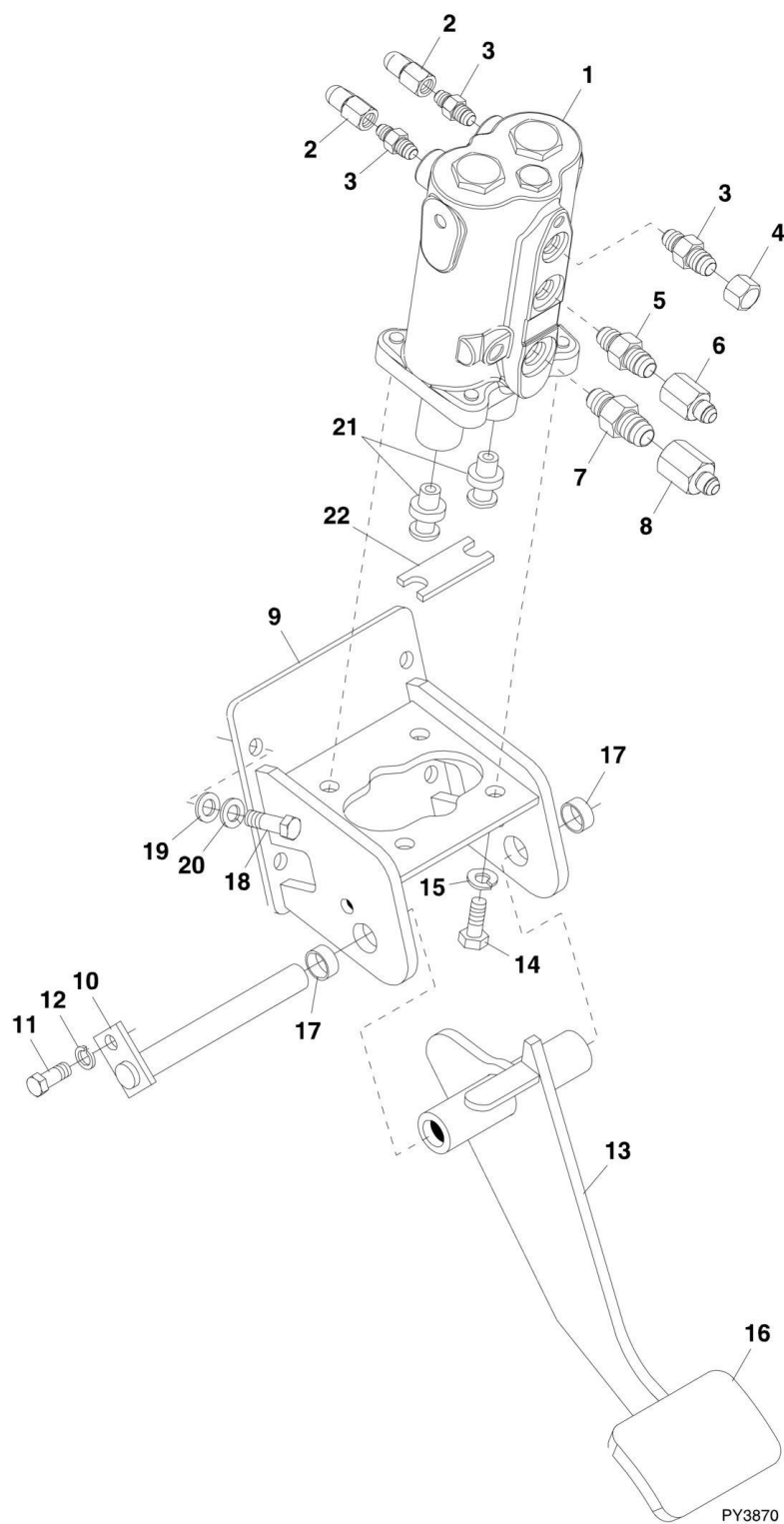
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FIGURE 7-9. STEERING COLUMN AND ATTACHING PARTS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001213	Ref	STEERING COLUMN INSTALLATION, (not available to order, see items 1 thru 6 for service)	A
1	2150808	4	ADAPTER, 45, (includes o-ring)	
2	91513125	1	STEERING COLUMN ASSY, (includes item 101)	
3	91123126	1	STEERING CONTROL UNIT	
4	2130404	1	ADAPTER, 90, (includes o-ring)	
5	4761600	4	LOCKWASHER, 3/8,	
6	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
101	70020923	1	STEERING WHEEL NUT, (torque to 29-34 lb-ft)	
151	91563208	1	STEERING WHEEL ASSY, (includes items 201 & 202)	F
201	7026477	1	CENTER CAP	
202	7026478	1	SPINNER KNOB	
310	0641608	2	HEX HD CAPSCREW, 3/8-16X1	
326	4761600	2	WASHER, 3/8	
372	91563226	1	F-N-R SHIFTER ASSY, (includes clamp set and hardware)	
K1	91144190	Ref	STEERING CONTROL UNIT SEAL KIT	

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FIGURE 7-10. BRAKE PEDAL INSTALLATION (Prior to SN 0160029241)



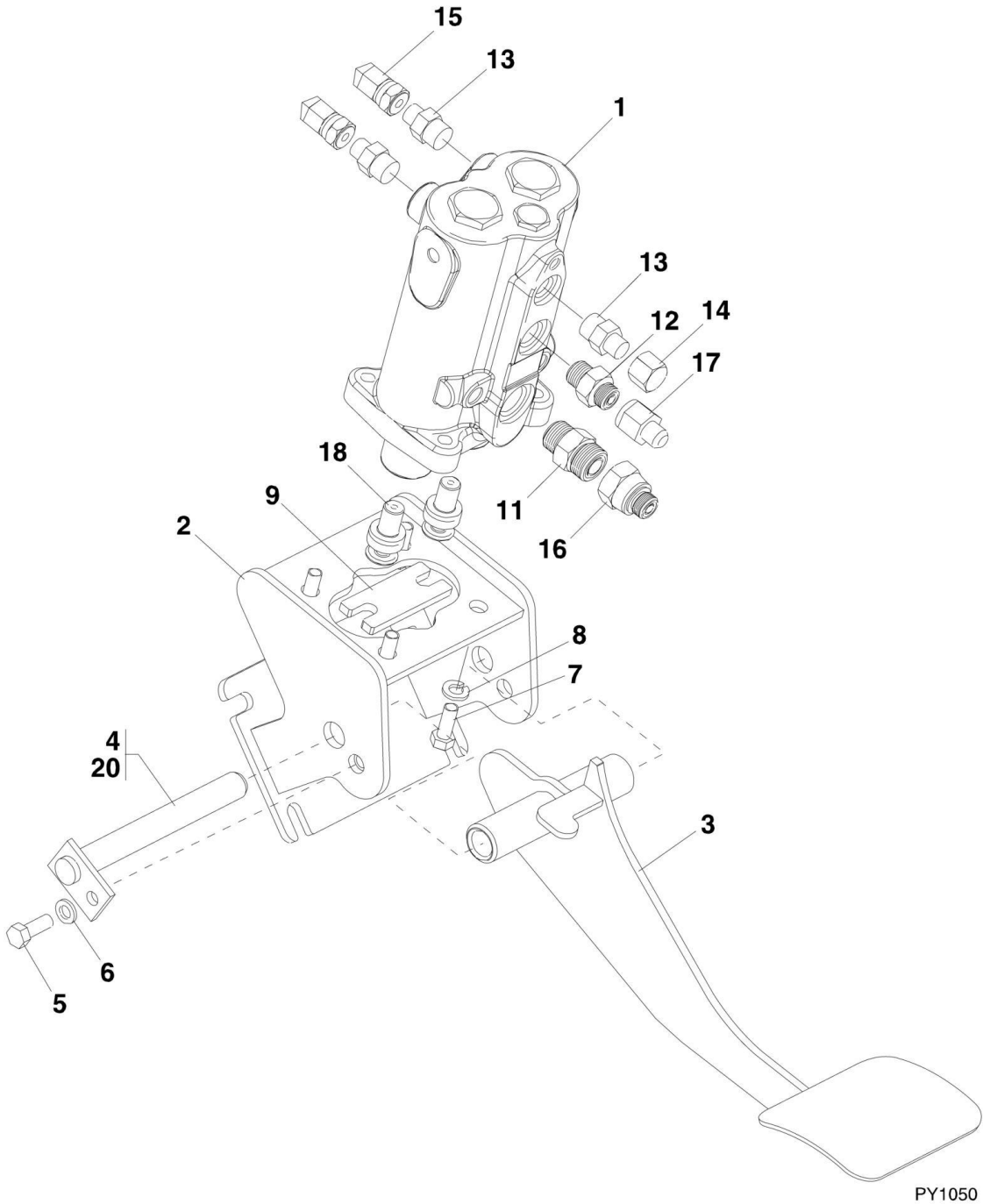
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FIGURE 7-10. BRAKE PEDAL INSTALLATION (Prior to SN 0160029241)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515048	Ref	BRAKE PEDAL INSTALLATION, (not available to order, see items 1 thru 17, 21 & 22 for service)	D
1		Ref	POWER BRAKE VALVE, (See HYRAULIC COMPONENTS SECTION for Breakdown)	
2	88662105	2	ELBOW, 90	
3	8770064	3	CONNECTOR	
4	88661364	1	FITTING	
5	83193018	1	CONNECTOR	
6	86883469	1	FITTING REDUCER	
7	80233142	1	CONNECTOR	
8	88661343	1	FITTING REDUCER	
9	91516029	1	BRAKE BRACKET	
10	91476031	1	PIVOT PIN	
11	88201035	1	HEX HD CAPSCREW, 3/8-16X1, GR5	
12	88551011	1	LOCKWASHER, 3/8	
13	91516030	1	BRAKE PEDAL	
14	83191021	4	HEX HD CAPSCREW, M10-1.5X30	
15	83191013	4	LOCKWASHER	
16	80263108	1	PEDAL PAD	
17	91403247	2	BUSHING	
18	88201020	4	HEX HD CAPSCREW, 5/16-8X1, GR5	
19	4751500	4	FLAT WASHER, 5/16	
20	4761500	4	LOCKWASHER, 5/16	
21	91513180	2	ACTUATOR	
22	91511145	1	TIE BAR	

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FIGURE 7-11. BRAKE PEDAL INSTALLATION (SN 0160029241 through 0160040674, Excluding 0160040468 and 0160040672)



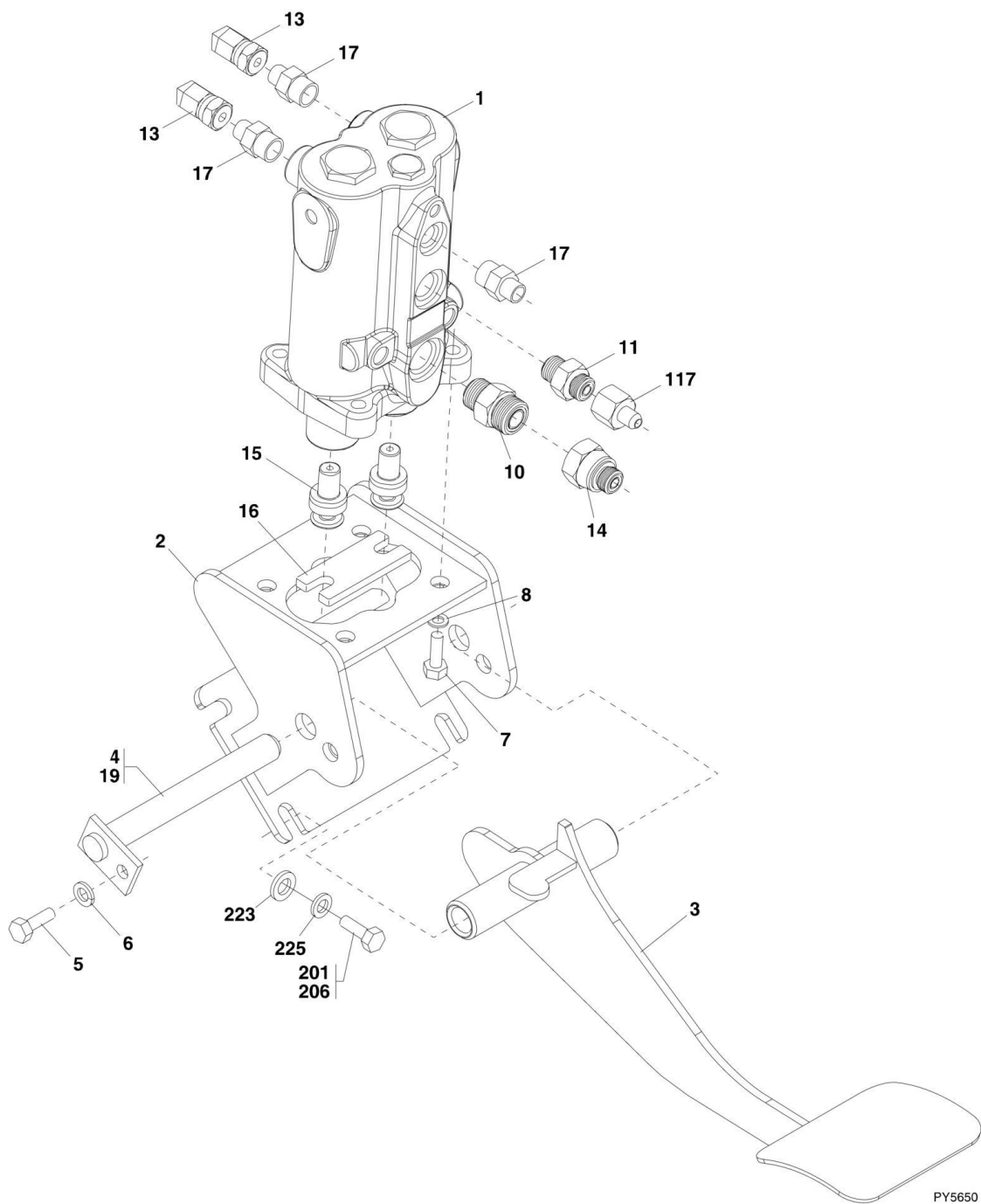
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FIGURE 7-11. BRAKE PEDAL INSTALLATION (SN 0160029241 through 0160040674, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091983	Ref	BRAKE PEDAL INSTALLATION, (not available to order, see items 1 thru 20 for service)	C
1		Ref	BRAKE VALVE, (See HYDRAULIC COMPONENT SECTION for Breakdown)	
2	1001091118	1	BRAKE PEDAL BRACKET	
3	1001090741	1	BRAKE PEDAL	
4	91476031	1	PIVOT PIN	
5	0641608	1	HEX HD CAPSCREW, 3/8-16X1	
6	4761600	1	LOCKWASHER, 3/8	
7	0701014	4	HEX HD CAPSCREW, M10X30, CLS8.8	
8	4832000	4	SPRING LOCKWASER, 10mm	
9	91511145	1	TIE BAR	
11	80233142	1	CONNECTOR	
12	83193018	1	CONNECTOR	
13	8770064	3	CONNECTOR	
14	2220516	1	FITTING	
15	8760268	2	ELBOW, 90	
16	2220620	1	FITTING REDUCER	
17	2220619	1	FITTING REDUCER	
18	91513180	2	ACTUATOR	
20	3020039	AR	MOLY PASTE	

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FIGURE 7-12. BRAKE PEDAL INSTALLATION (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5650

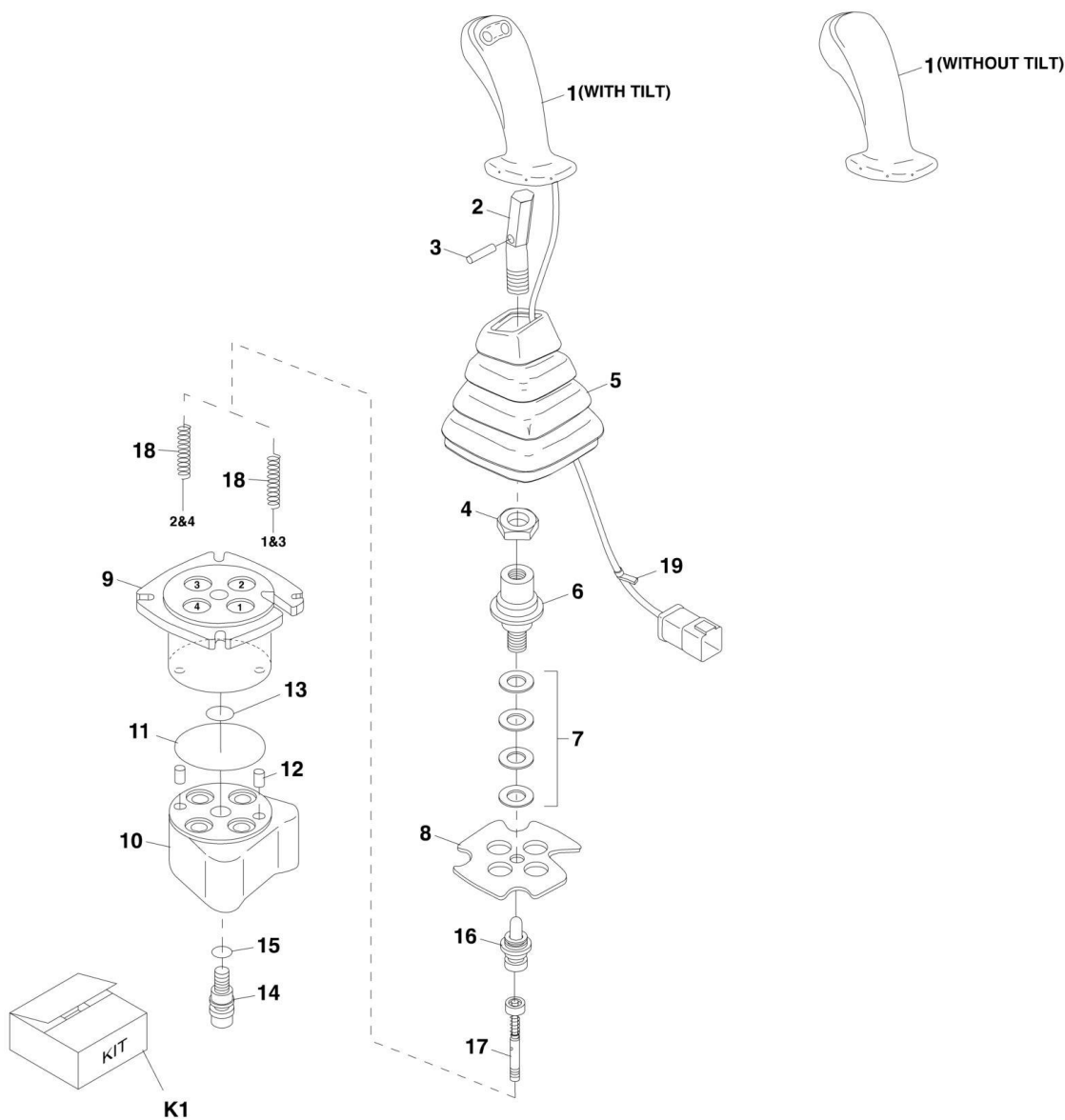
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FIGURE 7-12. BRAKE PEDAL INSTALLATION (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091173	Ref	BRAKE PEDAL INSTALLATION, (not available to order, see items 1 thru 19 for service)	F
1		Ref	POWER BRAKE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	1001091118	1	BRAKE PEDAL BRACKET	
3	1001090741	1	BRAKE PEDAL	
4	91476031	1	PIVOT PIN	
5	0641608	1	HEX HD CAPSCREW, 3/8-16X1, GR5	
6	4761600	1	LOCKWASHER, 3/8	
7	0701014	4	HEX HD CAPSCREW, 10X30mm, GR8.8	
8	4832000	4	SPRING LOCKWASHER, 10mm	
10	2221257	1	CONNECTOR	
11	8770258	1	CONNECTOR	
13	2172106	2	ELBOW, 90, (swivel nut)	
14	2221244	1	ADAPTER	
15	91513180	2	ACTUATOR	
16	91511145	1	TIE BAR	
17	2144605	1	CONNECTOR	
19	3020039	AR	MOLY PASTE	
117	2220619	1	ADAPTER	
201	0100011	AR	LOCTITE 242	
206	0641508	4	HEX HD CAPSCREW, 5/16-18X1, GR5	
223	4751500	4	WASHER, 5/16	
225	4761500	4	LOCKWASHER, 5/16	

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FIGURE 7-13. BOOM JOYSTICK (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PAP18300

NOTE: THE JOYSTICK HANDLE SWITCH IS NOT A FIELD SERVICEABLE COMPONENT. ANY ATTEMPT BY NON-FACTORY AUTHORIZED PERSONNEL TO REPAIR OR REPLACE THE SWITCH WILL VOID THE WARRANTY AND CAN RESULT IN A JOYSTICK MALFUNCTION.

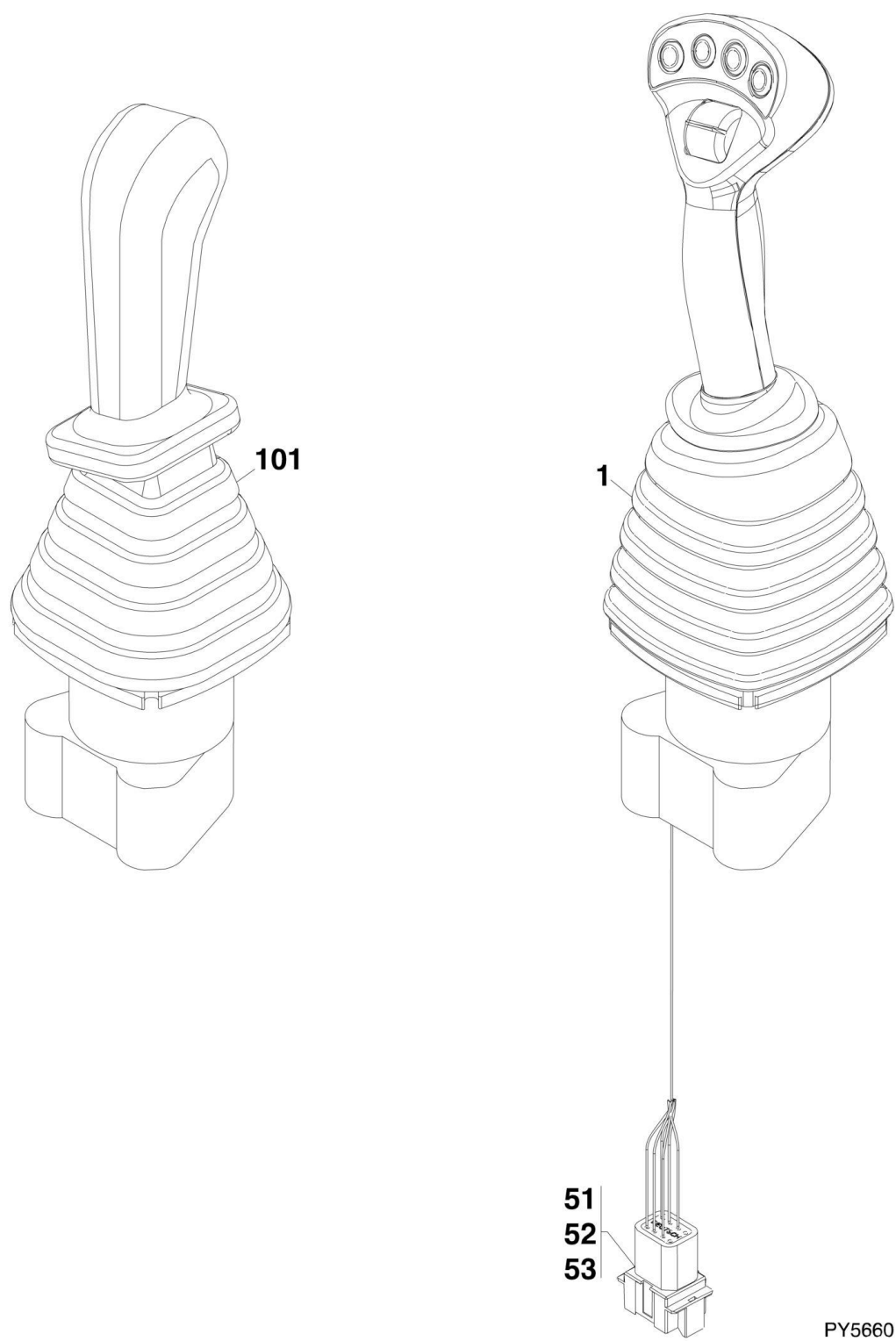
SECTION 7 - CONTROLS

FIGURE 7-13. BOOM JOYSTICK (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513211	1	BOOM JOYSTICK WITHOUT TILT (includes items 1 thru 18) (G9-43A)	1
	91513212	1	BOOM JOYSTICK WITH TILT (includes items 1 thru 19)	
1	91404010	1	GRIP, (without tilt)	
1	91404325	1	GRIP, (with tilt)	
2	91404011	1	BENT LEVER KIT, (includes items 3 & 4)	
3	N.S.S.	1	SPRING PIN	
4	N.S.S.	1	HEX NUT	
5	80364095	1	BOOT	
6	80264138	1	CARDON KIT, (includes item 7)	
7	N.S.S.	AR	SHIM	
8	91404013	1	RETAINING PLATE	
9	91404016	1	UPPER BODY, (includes item 10)	
10	N.S.S.	1	LOWER BODY	
11	Kit	1	O-RING	
12	Kit	2	DOWEL PIN	
13	Kit	1	O-RING	
14	Kit	1	SCREW ASSY	
15	Kit	1	O-RING	
16	80934498	4	PLUNGER AND GUIDE KIT	
17	91514224	4	REGULATING UNIT	
18	91504028	1	SPRING, (ports 1 & 3), (pack of two)	
18	91504029	1	SPRING, (ports 2 & 4), (pack of two)	
19	80264139	1	GROMMET WITH CABLE TIE KIT, (with tilt)	
K1	91404326	AR	SEAL KIT, (includes items 11 thru 15)	

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FIGURE 7-14. BOOM JOYSTICK (SN 0160040675 to Present, Including 0160040468 and 0160040672)



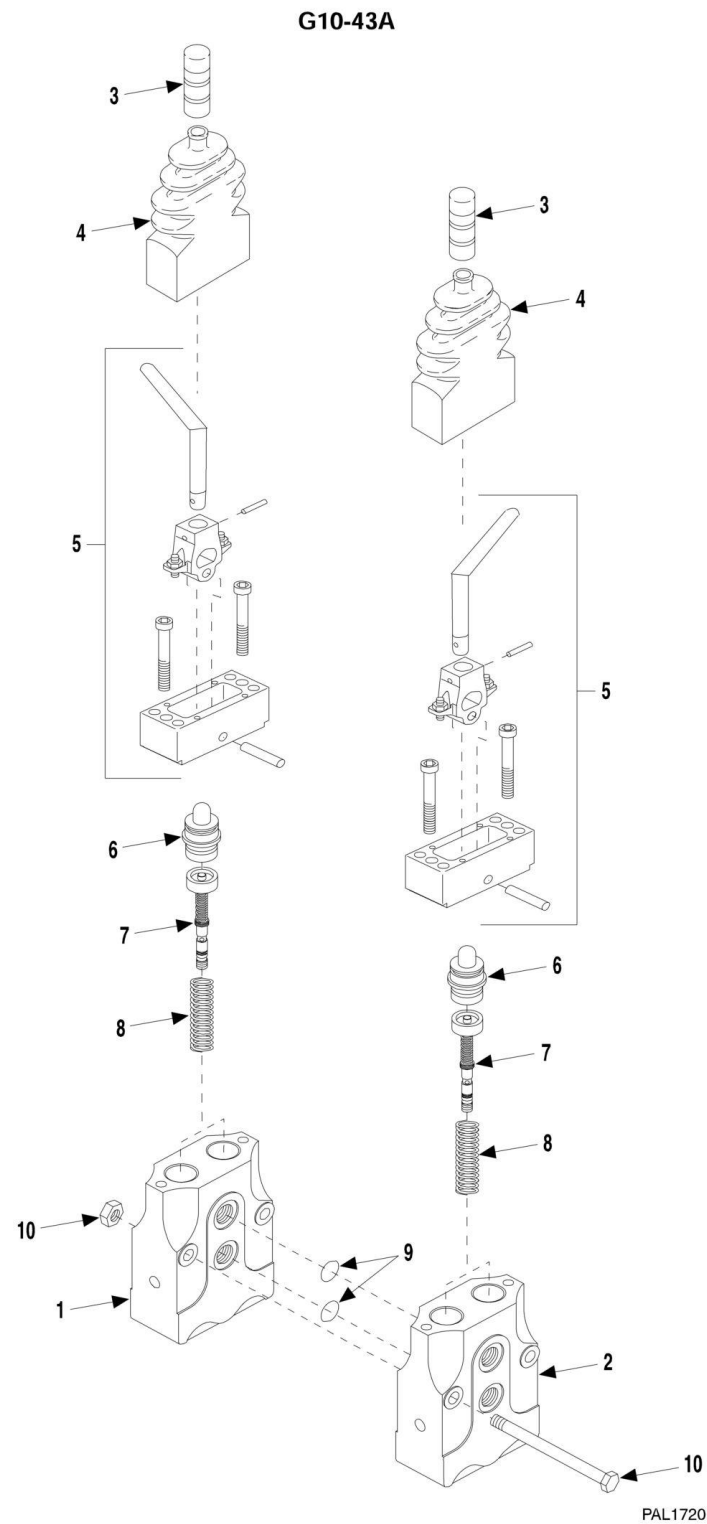
SECTION 7 - CONTROLS

FIGURE 7-14. BOOM JOYSTICK (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001130045	1	BOOM JOYSTICK WITH TILT (includes items 51 thru 53)	B
51	70023500	1	CONNECTOR	
51	70023499	1	WEDGE LOCK	
52	4460917	6	TERMINAL	
53	4460518	2	PLUG	
101	1001130050	1	BOOM JOYSTICK WITHOUT TILT (G9-43A)	

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FIGURE 7-15. OUTRIGGER JOYSTICKS (G10-43A)



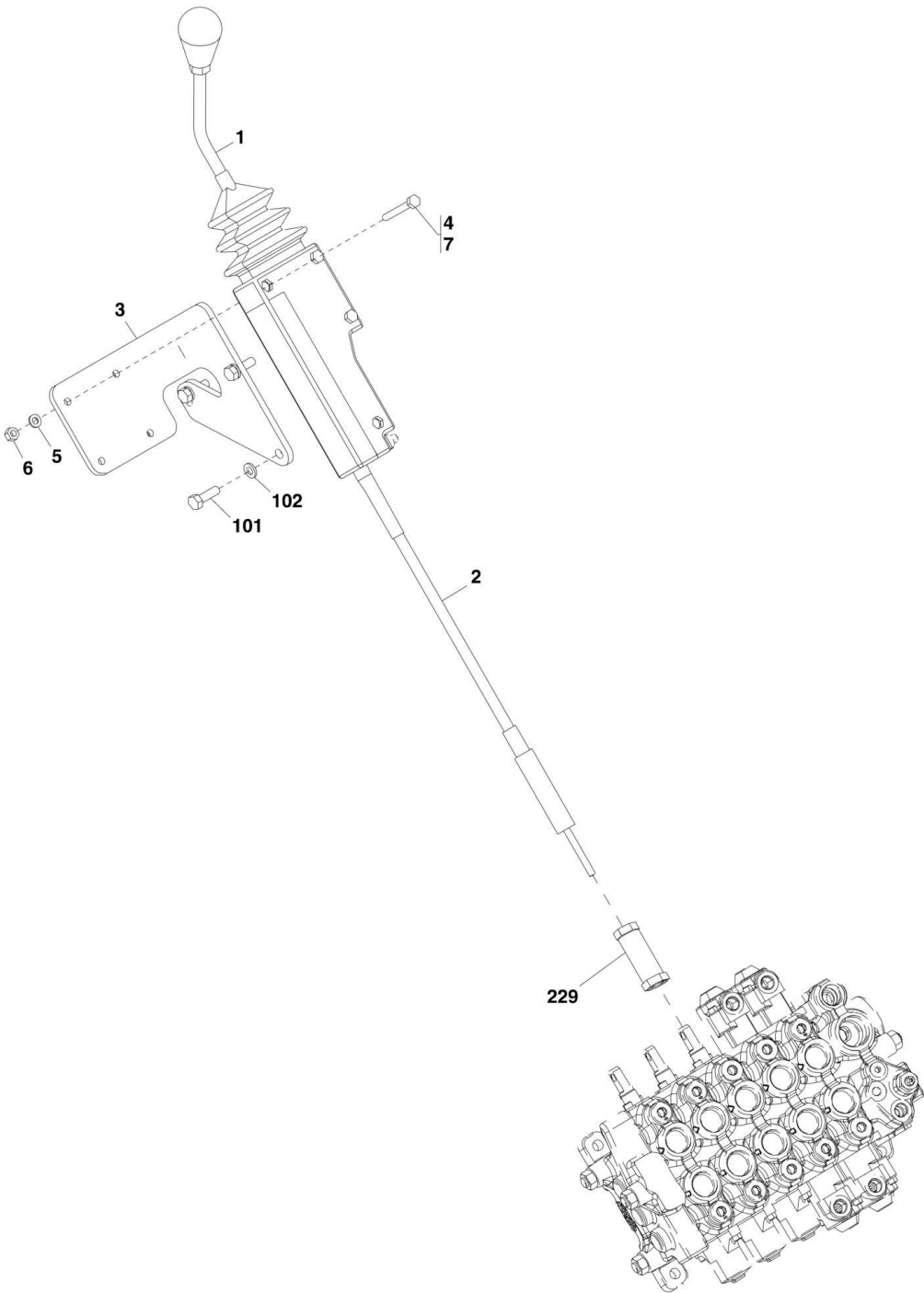
SECTION 7 - CONTROLS

FIGURE 7-15. OUTRIGGER JOYSTICKS (G10-43A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563200	1	OUTRIGGER JOYSTICKS	A
1	91563201	1	HYDRAULIC CONTROLLER, (includes one each of items 3 thru 8)	
2	7026741	1	HYDRAULIC CONTROLLER, (includes one each of items 3 thru 8)	
3	91504030	2	GRIP	
4	91504031	2	RUBBER BOOT	
5	7026739	2	LEVER OPERATION KIT	
6	80934498	2	PLUNGER KIT	
7	7026740	2	REGULATING UNIT KIT	
8	91504029	2	RETURN SPRING	
9	7026742	2	O-RING	
10	7026743	1	BOLT AND NUT KIT	

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FIGURE 7-16. FRAME LEVEL JOYSTICK ASSEMBLY



PAP18400

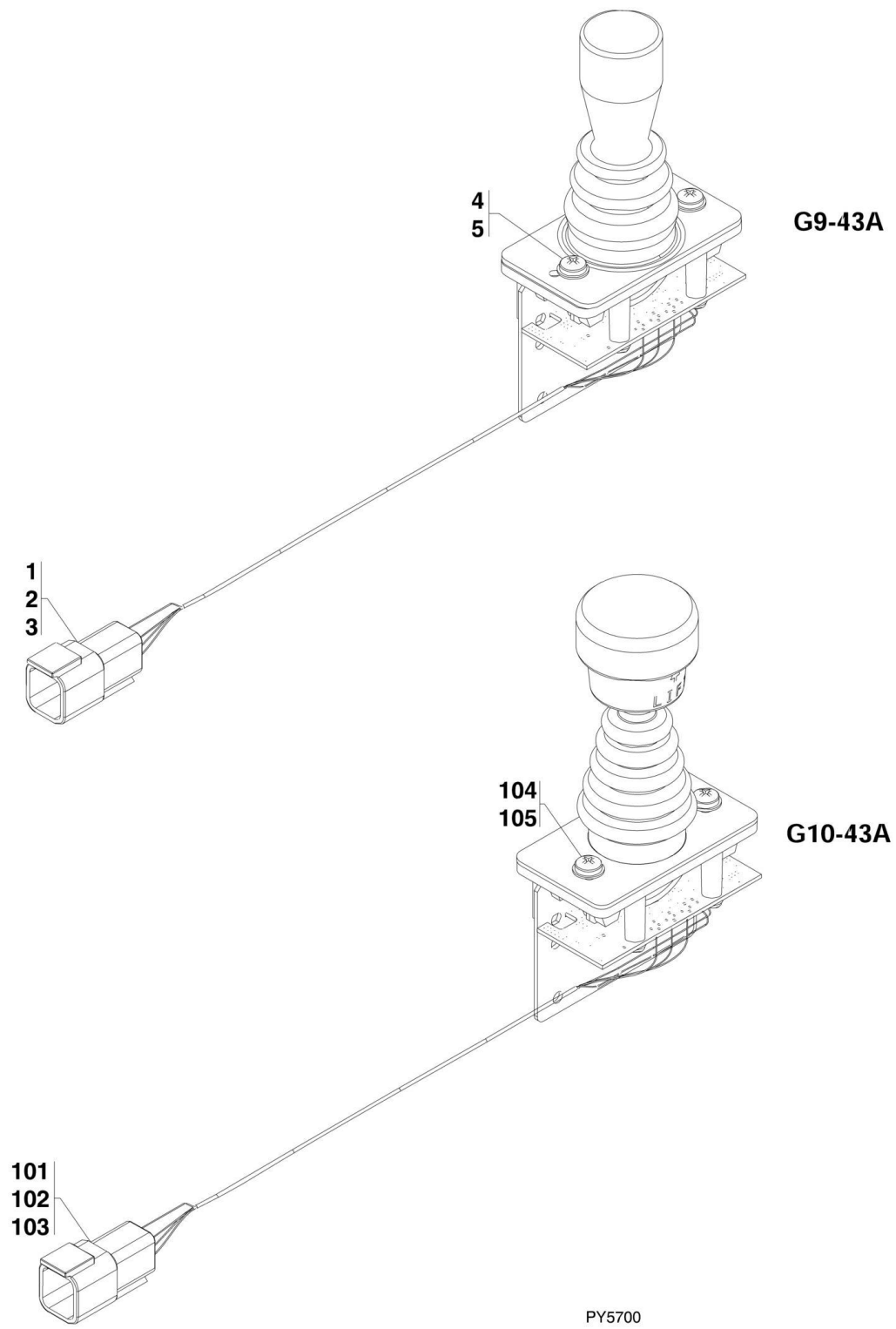
SECTION 7 - CONTROLS

FIGURE 7-16. FRAME LEVEL JOYSTICK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515047	1	FRAME LEVEL JOYSTICK ASSEMBLY (includes items 1 thru 7)	E
1	91513204	1	SINGLE VALVE CONTROL	
2	91473146	1	CABLE	
3	1001092843	1	BRACKET	
4	0641416	3	HEX HD CAPSCREW, 1/4-20X2	
5	4761400	3	LOCKWASHER, 1/4	
6	3311401	3	HEX NUT, 1/4-20, GR2	
7	0100011	AR	LOCTITE 242	
101	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
102	4761500	3	WASHER, 5/16	
229	91123062	1	CABLE ADAPTER BONNET	

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FIGURE 7-17. ELECTRIC AUXILIARY HYDRAULIC JOYSTICK



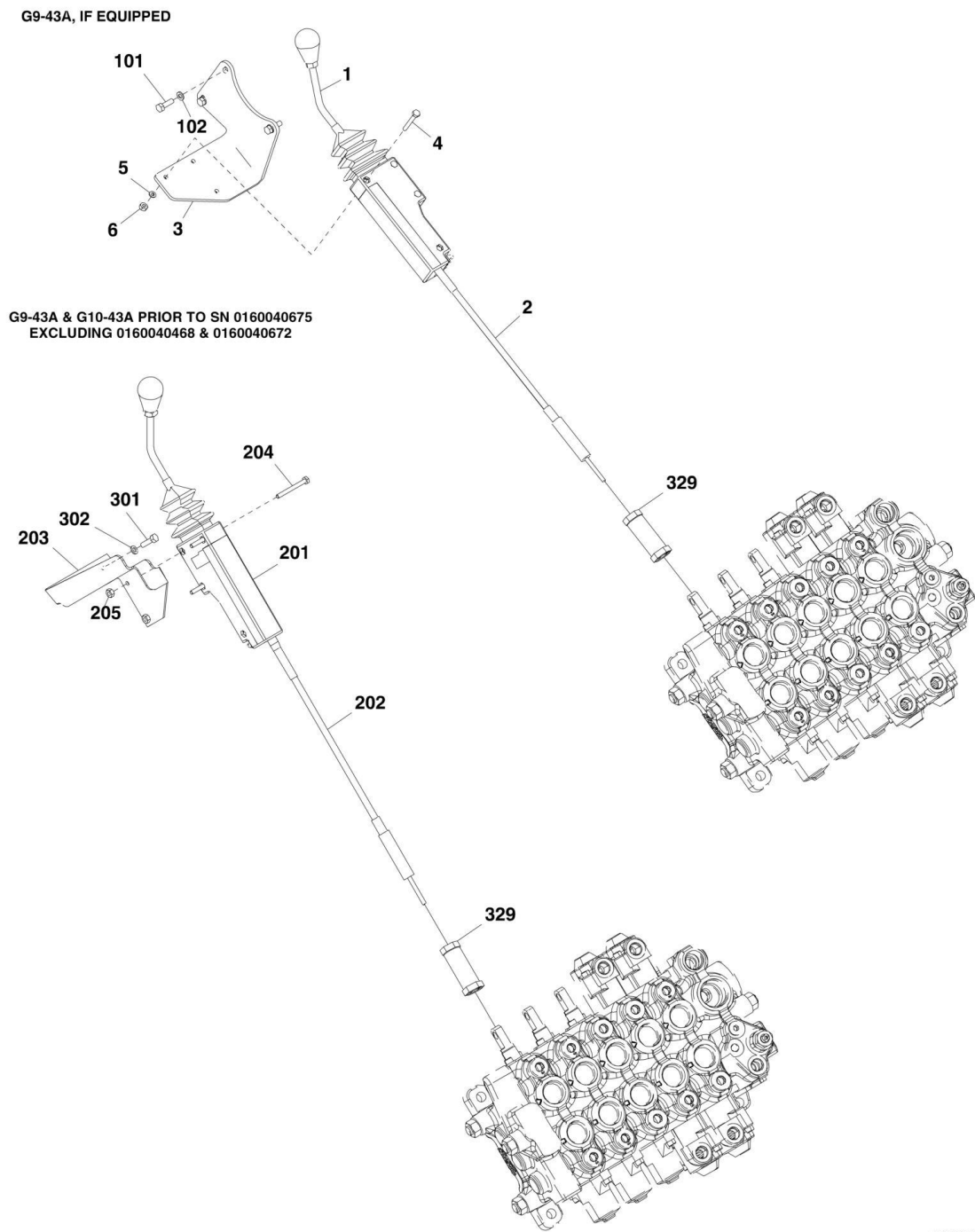
SECTION 7 - CONTROLS

FIGURE 7-17. ELECTRIC AUXILIARY HYDRAULIC JOYSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001106508	1	ELECTRIC AUXILIARY HYDRAULIC JOYSTICK (G9-43A)	A
1	4461217	1	CONNECTOR (G9-43A)	
1	70020823	1	WEDGE LOCK (G9-43A)	
2	4460917	5	TERMINAL (G9-43A)	
3	4460518	1	PLUG (G9-43A)	
4	NSS	2	PAN HD CAPSCREW, M5X12 (G9-43A)	
5	NSS	2	#10 PLASTIC WASHER (G9-43A)	
	1001131806	1	ELECTRIC AUXILIARY HYDRAULIC JOYSTICK (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	A
101	4461217	1	CONNECTOR (G10-43A)	
101	70020823	1	WEDGE LOCK (G10-43A)	
102	4460917	5	TERMINAL (G10-43A)	
103	4460518	1	PLUG (G10-43A)	
104	NSS	2	PAN HD CAPSCREW, M5X12 (G10-43A)	
105	NSS	2	#10 PLASTIC WASHER (G10-43A)	

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FIGURE 7-18. AUXILIARY HYDRAULIC JOYSTICK



PAP18390

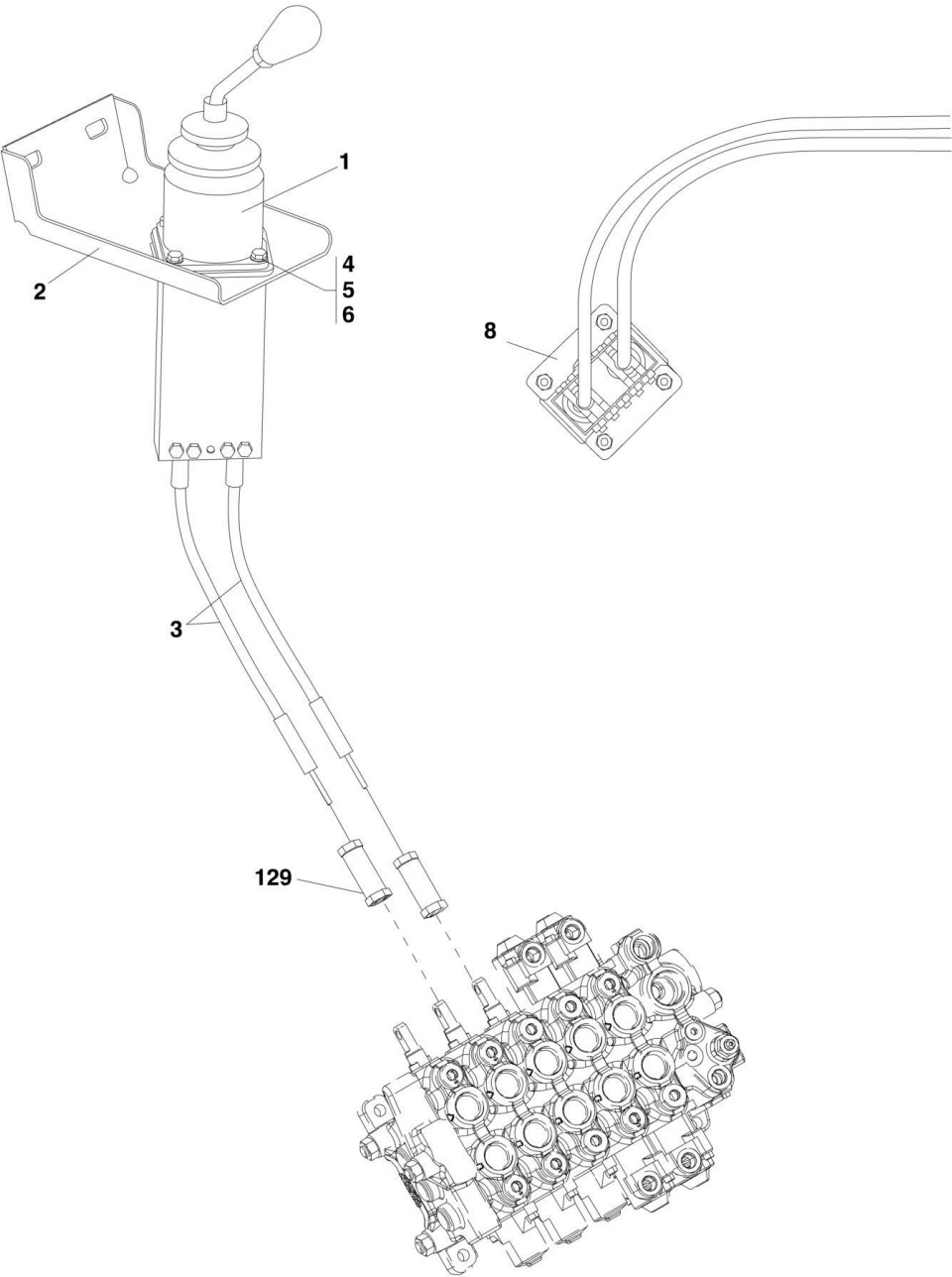
SECTION 7 - CONTROLS

FIGURE 7-18. AUXILIARY HYDRAULIC JOYSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107895	Ref	AUXILIARY HYDRAULIC JOYSTICK INSTALLATION (not available to order, see items 1 thru 6 for service) (G9-43A)	C
1	91513204	1	SINGLE VALVE CONTROL JOYSTICK ASSY (G9-43A)	
2	91473146	1	CABLE (G9-43A)	
3	1001107955	1	RH AUX BRACKET (G9-43A)	
4	0641416	3	HEX HD CAPSCREW, 1/4-20X2, GR5 (G9-43A)	
5	4761400	3	LOCKWASHER, 1/4 (G9-43A)	
6	88501004	3	HEX NUT, 1/4 -20 (G9-43A)	
101	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5 (G9-43A)	
102	4761500	3	WASHER, 5/16 (G9-43A)	
	91475037	Ref	AUXILIARY HYDRAULIC JOYSTICK INSTALLATION (not available to order, see items 201 thru 205 for service) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	B
201	91403273	1	SINGLE VALVE CONTROL JOYSTICK ASSY	
202	91473088	1	CABLE	
203	1001091157	1	BRACKET	
204	88201011	3	HEX HD CAPSCREW, 1/4-20X2-1/2	
205	88501004	3	HEX NUT, 1/4-20	
301	0641808	2	HEX HD CAPSCREW, 1/2-13X1, GR5	
302	4711800	2	FLAT WASHER, 1/2	
329	91513124	1	CABLE ADAPTER BONNET	

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FIGURE 7-19. TILT HYDRAULIC JOYSTICK



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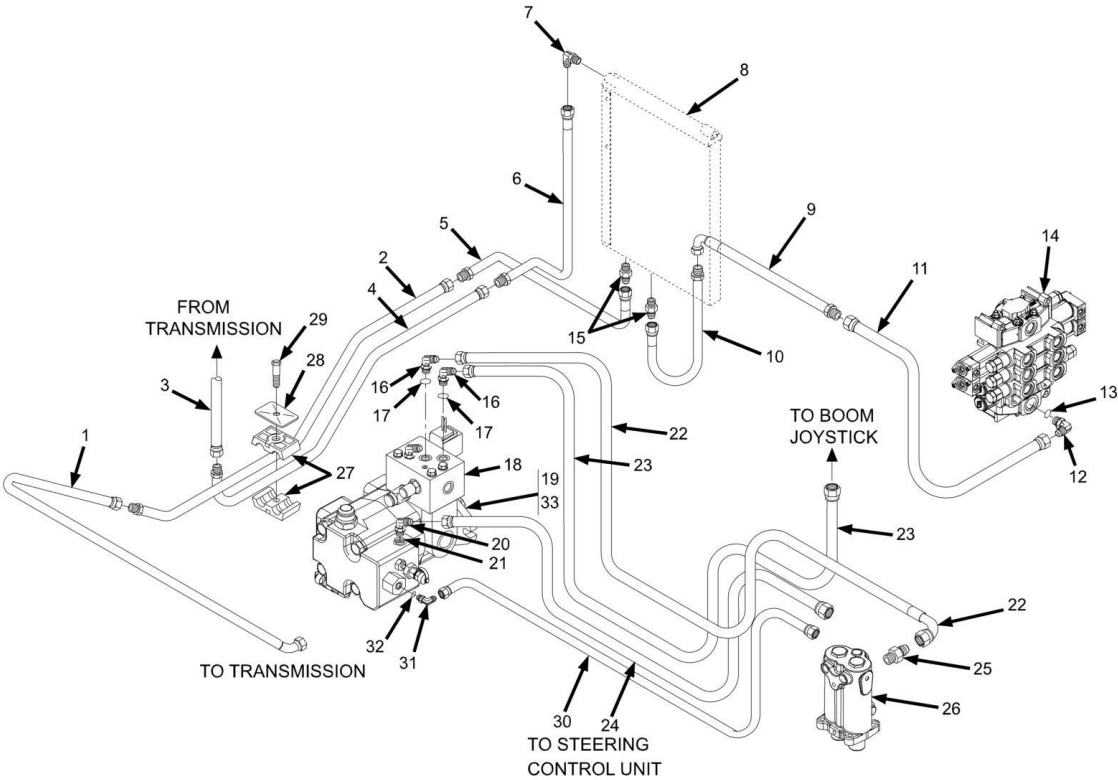
FIGURE 7-19. TILT HYDRAULIC JOYSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405047	Ref	AUXILIARY HYDRAULIC JOYSTICK INSTALLATION, (includes all items)	C
1		Ref	TILT/SWAY JOYSTICK ASSY, (See TILT AND SWAY JOYSTICK ASSEMBLY for Breakdown)	
2	91401168	1	LH TILT/SWAY BRACKET	
3	91403309	2	CONTROL CABLES	
4	88201005	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
5	88551009	4	LOCKWASHER, 1/4	
6	88561107	4	FLATWASHER, 1/4	
8	91416006	2	WELD NUT PLATE WELDMENT	
129	91513124	1	CABLE ADAPTER BONNET	

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SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. PRIORITY VALVE CIRCUIT (SN 0193001 through 0193007, SN 0160000008 through 0160012095)



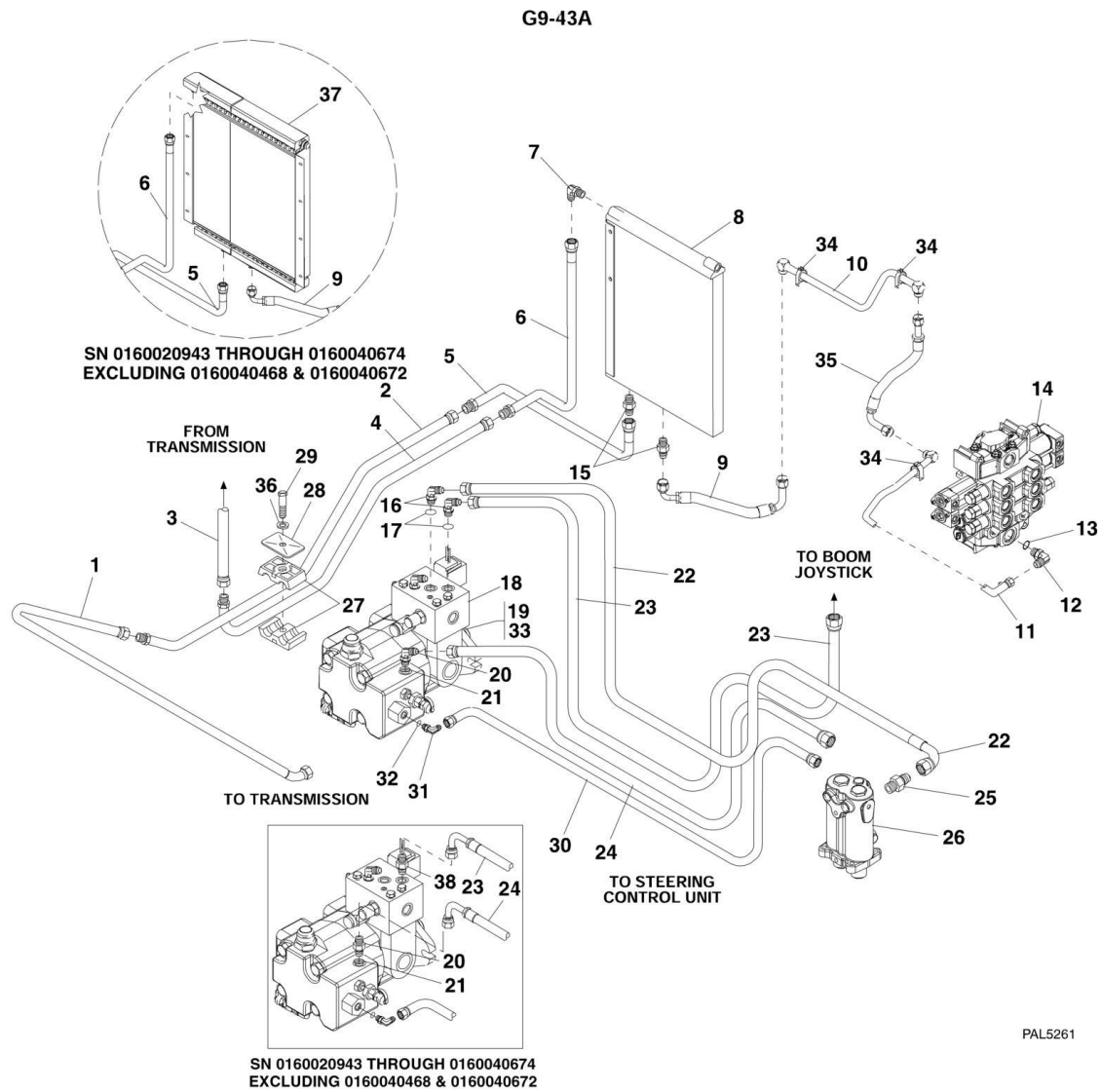
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. PRIORITY VALVE CIRCUIT (SN 0193001 through 0193007, SN 0160000008 through 0160012095)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	84719876	1	HOSE ASSY	
2	91513156	1	TUBE ASSY	
3	84719877	1	HOSE ASSY	
4	91513155	1	TUBE ASSY	
5	91513214	1	TUBE ASSY	
6	91513213	1	TUBE ASSY	
7		Ref	ELBOW, 90, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
8		Ref	OIL COOLER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
9	84719868	1	HOSE ASSY (SN 0193001 through 0160001733)	
9	84721039	1	HOSE ASSY (SN 0160001734 through 0160012095)	
10	91513157	1	TUBE ASSY (SN 0193001 through 0160001733)	
10	91513227	1	TUBE ASSY (SN 0160001734 through 0160012095)	
11	91513181	1	TUBE ASSY	
12	2220646	1	ELBOW, 90, (includes item 13)	
13	88591209	1	O-RING	
14		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
15		Ref	CONNECTOR, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
16	2220473	2	ELBOW, 90, (includes item 17)	
17	88591204	2	O-RING	
18		Ref	PRIORITY VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
19		Ref	IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
20	2220671	1	ELBOW, 90, (includes item 21)	
21	88591206	1	O-RING	
22	84719858	1	HOSE ASSY	
23	84719862	1	HOSE ASSY	
24	84719865	1	HOSE ASSY	
25		Ref	CONNECTOR, (See CONTROLS SECTION for Breakdown)	
26		Ref	POWER BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
27	77133136	1	CLAMP SET	
28	77133137	1	PLATE COVER	
29	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4	
30	84719866	1	HOSE ASSY	
31	2220466	1	ELBOW, 90, (includes item 32)	
32	88591202	1	O-RING	
33	88591013	2	O-RING	

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FIGURE 8-2. PRIORITY VALVE CIRCUIT (G9-43A) (SN 0160012153 through 0160040674, Excluding 0160040468 and 0160040672)



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. PRIORITY VALVE CIRCUIT (G9-43A) (SN 0160012153 through 0160040674, Excluding 0160040468 and 0160040672)

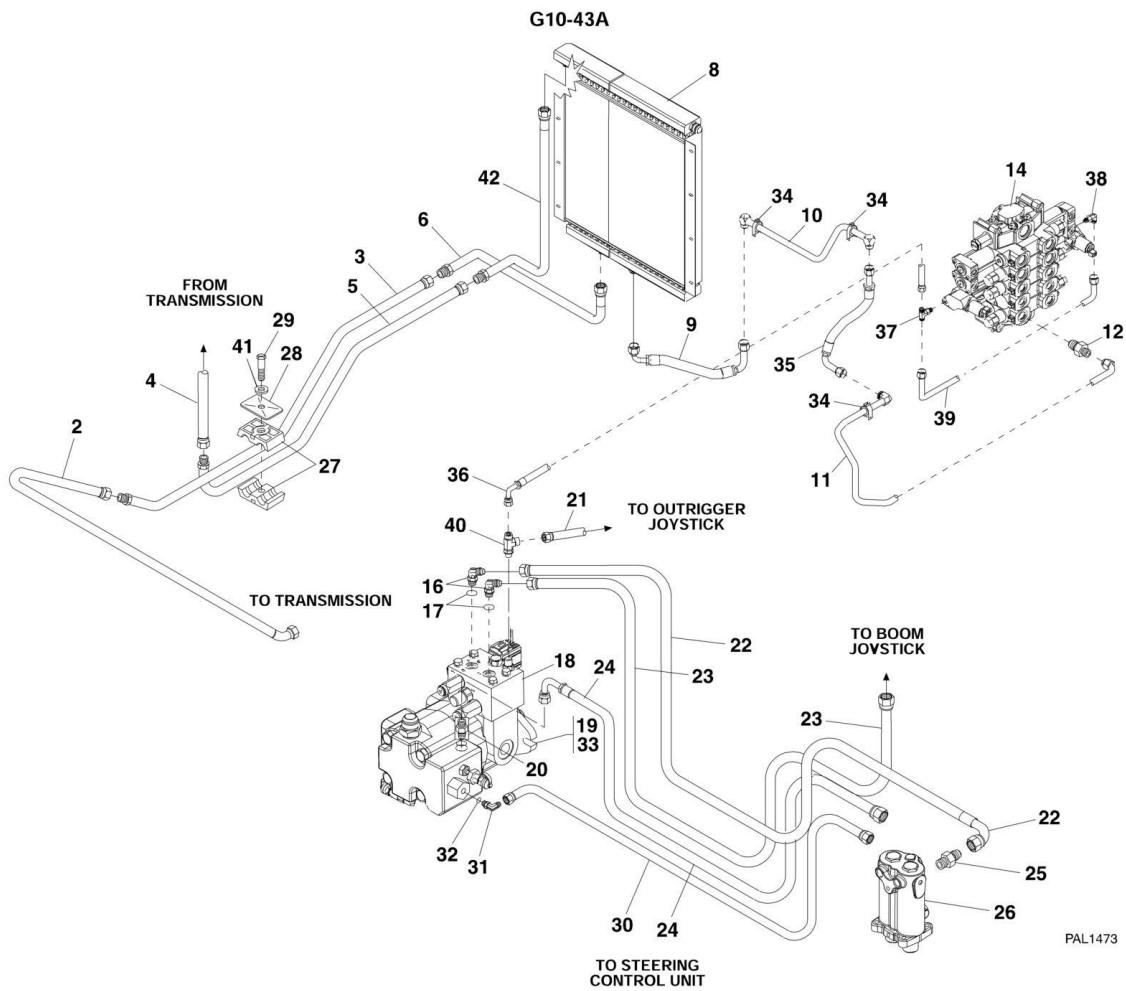
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	84719876	1	HOSE ASSY	
2	91513156	1	TUBE ASSY	
3	84719877	1	HOSE ASSY	
4	91513155	1	TUBE ASSY	
5	91513214	1	TUBE ASSY	
6	91513213	1	TUBE ASSY	
7		Ref	ELBOW, 90, (See ENGINE AND ATTACHING PARTS for Breakdown)	
8		Ref	OIL COOLER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
9	2754326	1	HOSE ASSY	
10	91513289	1	TUBE ASSY	
11	91513288	1	TUBE ASSY	
12	2220646	1	ELBOW, 90, (includes item 13)	
13	N.S.S.	1	O-RING	
14		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
15		Ref	CONNECTOR, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
16	2220473	2	ELBOW, 90, (includes item 17)	
17	N.S.S.	2	O-RING	
18		Ref	PRIORITY VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
19		Ref	IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
20	2220671	1	ELBOW, 90, (includes item 21) (Prior to SN 0160025316)	
20	2220374	1	CONNECTOR (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040674)	
21	N.S.S.	1	O-RING	
22	84719858	1	HOSE ASSY	
23	84719862	1	HOSE ASSY (Prior to SN 0160025316)	
23	2755024	1	HOSE ASSY (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040674)	
24	84719865	1	HOSE ASSY (Prior to SN 0160025316)	
24	2755025	1	HOSE ASSY (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040674)	
25		Ref	CONNECTOR, (See CONTROLS SECTION for Breakdown)	
26		Ref	POWER BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
27	8769139	1	CLAMP SET	
28	77133137	1	PLATE COVER	
29	0641516	1	HEX HD CAPSCREW, 5/16-18X2, GR5	
30	84719866	1	HOSE ASSY (Prior to SN 0160025316)	
30	2755023	1	HOSE ASSY (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040674)	
31	2220466	1	ELBOW, 90, (includes item 32)	
32	N.S.S.	1	O-RING	
33	88591013	2	O-RING	
34	91053413	3	HYDRA-ZORB CLAMP	
35	2754327	1	HOSE ASSY	
36	4711500	2	FLAT WASHER, 5/16	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	2220371	Ref	OIL COOLER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
38		1	CONNECTOR (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040674)	

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FIGURE 8-3. PRIORITY VALVE CIRCUIT (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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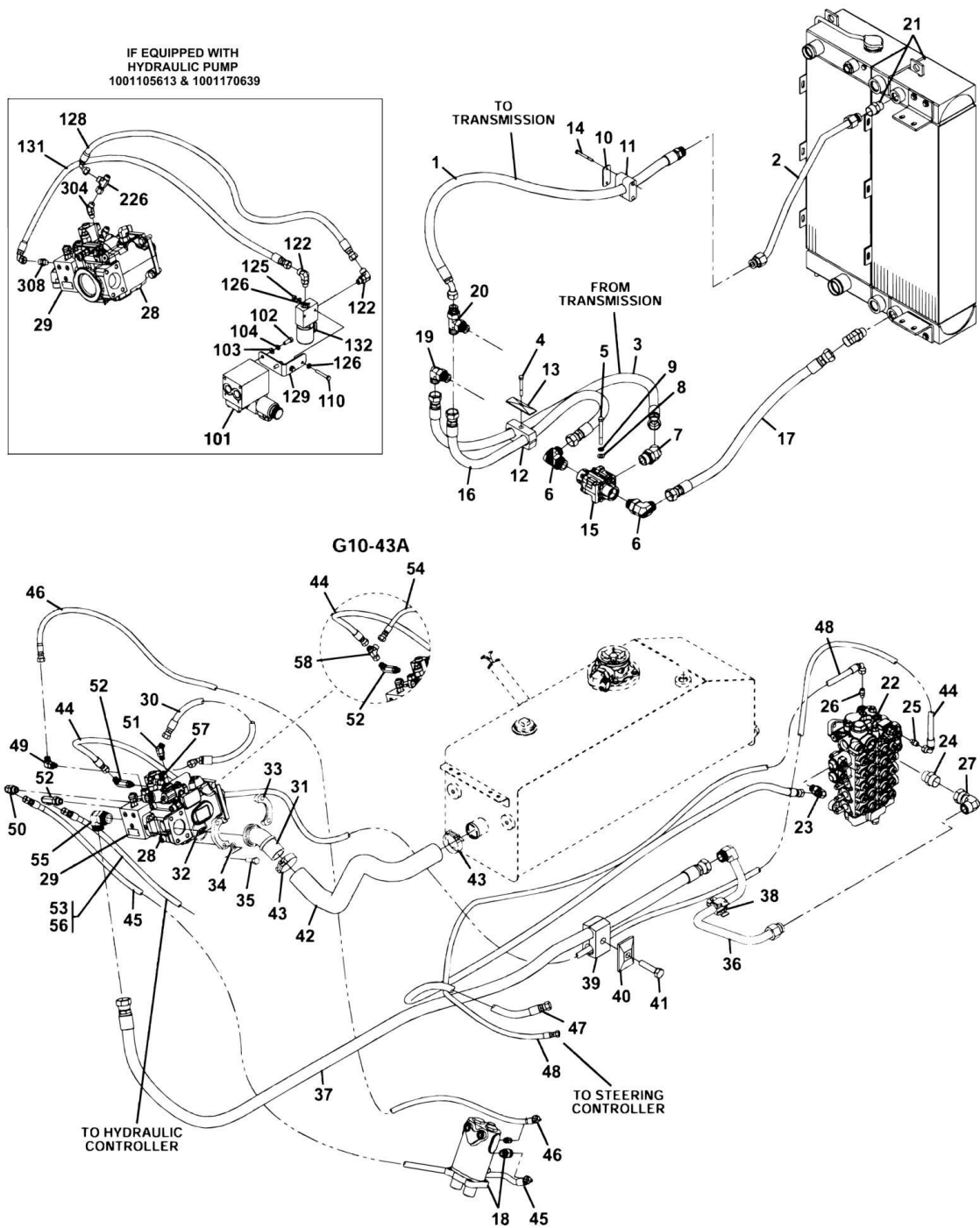
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. PRIORITY VALVE CIRCUIT (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	84719876	1	HOSE ASSY	
3	91513156	1	TUBE ASSY	
4	84719877	1	HOSE ASSY	
5	91513155	1	TUBE ASSY	
6	91513214	1	TUBE ASSY	
8		Ref	OIL COOLER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
9	2754326	1	HOSE ASSY	
10	91513289	1	TUBE ASSY	
11	91513288	1	TUBE ASSY	
12	2220646	1	ELBOW, 90, (includes item 13)	
13	N.S.S.	1	O-RING	
14		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
16	2220473	2	ELBOW, 90, (includes item 17)	
17	N.S.S.	2	O-RING	
18		Ref	PRIORITY VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
19		Ref	IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
20	2220671	1	ELBOW, 90, (includes item 21)	
21	N.S.S.	1	O-RING	
22	84719858	1	HOSE ASSY	
23	2755024	1	HOSE ASSY	
24	2755025	1	HOSE ASSY	
25		Ref	CONNECTOR, (See CONTROLS SECTION for Breakdown)	
26		Ref	POWER BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
27	8769139	1	CLAMP SET	
28	77133137	1	PLATE COVER	
29	0641516	1	HEX HD CAPSCREW, 5/16-18X2, GR5	
30	2755023	1	HOSE ASSY	
31	2220466	1	ELBOW, 90, (includes item 32)	
32	N.S.S.	1	O-RING	
33	88591013	2	O-RING	
34	91053413	3	HYDRA-ZORB CLAMP	
35	2754327	1	HOSE ASSY	
36	1001114699	1	HOSE ASSY	
37	1001001344	1	STR THREAD BRANCH TEE, (includes o-ring)	
38	1001001345	1	ELBOW, 90, (includes o-ring)	
39	1001110786		HOSE ASSY	
40	2170306	1	SWIVEL NUT RUN TEE, (includes o-ring)	
41	4711500	2	FLAT WASHER, 5/16	
42	91513213	1	TUBE ASSY	

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FIGURE 8-4. PRIORITY VALVE CIRCUIT (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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FIGURE 8-4. PRIORITY VALVE CIRCUIT (SN 0160040675 to Present, Including 0160040468 and 0160040672)

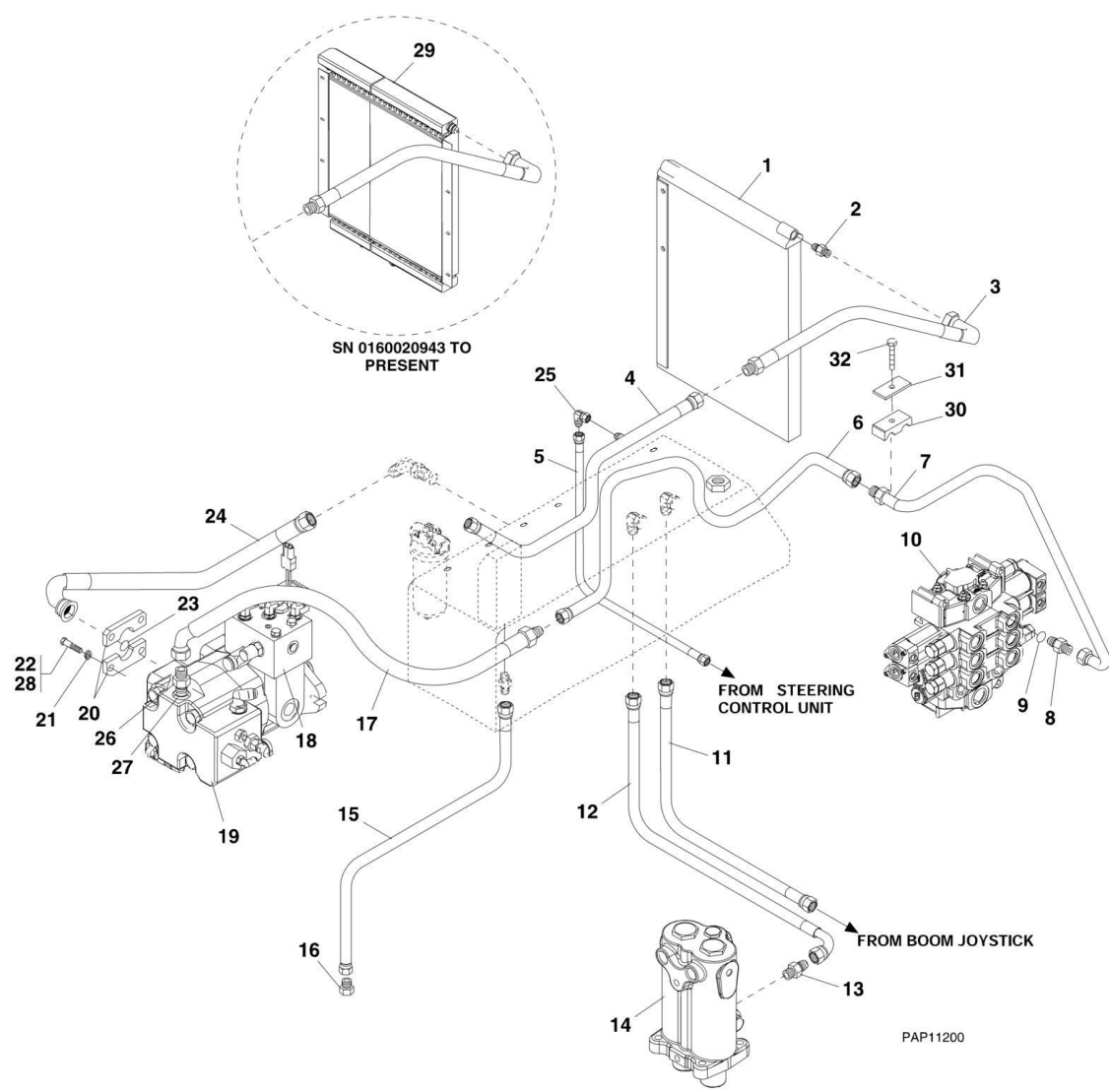
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001118060	1	HOSE ASSY	
2	1001118068	1	PIPE	
3	1001119809	1	HOSE ASSY	
4	0641520	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
5	0641628	2	HEX HD CAPSCREW, 3/8-16X3-1/2, GR5	
6	2131216	2	ELBOW, 90, (includes o-ring)	
7	2151216	1	ELBOW, 45, (includes o-ring)	
8	4711600	2	WASHER, 3/8	
9	4761600	2	LOCKWASHER, 3/8	
10	8750001	1	COVER PLATE	
11	8750005	1	CLAMP SET	
12	8750022	1	CLAMP SET	
13	8750025	1	COVER PLATE	
14	0641420	2	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	
15	1001119801	1	THERMAL BYPASS VALVE	
16	1001119815	1	HOSE ASSY	
17	1001119828	1	HOSE ASSY	
18		Ref	POWER BRAKE ASSY, (See CONTROLS SECTION for Breakdown)	
19	2131210	1	ELBOW, 90, (includes o-ring)	
20	2170410	1	RUN TEE, (includes o-ring)	
21		Ref	RADIATOR ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
22		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23	21360810	1	ELBOW, 90, (includes o-ring)	
24	2111616	1	CONNECTOR, (includes o-ring)	
25	2170206	1	ELBOW, 90, (includes o-ring)	
26	2110404	1	CONNECTOR, (includes o-ring)	
27	2172116	1	ELBOW, 90, (includes o-ring)	
28		Ref	HYDRAULIC PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
29		Ref	HYDRAULIC MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
30	1001119535	1	HOSE ASSY	
31	1001107814	1	PIPE	
32	3790228	1	O-RING	
33	8546407	2	FLANGE HALF	
34	4761800	4	LOCKWASHER, 1/2	
35	0641812	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
36	1001105182	1	PIPE	
37	1001105194	1	HOSE ASSY	
38	91053413	1	CUSHION CLAMP	
39	77133307	1	CLAMP SET	
40	77133281	1	COVER PLATE	
41	0641520	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
42	1001115367	1	SUCTION HOSE	
43	90028720	2	BAND CLAMP	
44	1001105620	1	HOSE ASSY	
45	1001105622	1	HOSE ASSY	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	1001105692	1	HOSE ASSY	
47	1001105627	1	HOSE ASSY	
48	1001105628	1	HOSE ASSY	
49	2130606	1	ELBOW, 90, (includes o-ring)	
50	2130608	1	ELBOW, 90, (includes o-ring)	
51	2150606	1	ELBOW, 45, (includes o-ring)	
52	2170206	1	ELBOW, 90, LONG, (includes o-ring)	
53	1001127651	1	HOSE ASSY (G9-43A)	
54		Ref	HOSE ASSY, (See BOOM JOYSTICK CIRCUIT for Breakdown)	
55	2131616	1	ADAPTER, 90, (includes o-ring)	
56	1001130049	1	HOSE ASSY (G10-43A)	
57	2110604	1	CONNECTOR, (includes o-ring)	
58	2170706	1	ADAPTER, TEE, (includes o-ring)	
101		Ref	STEER SELECT VALVE, (See STEER SELECT VALVE for Breakdown)	
102		Ref	HEX HD CAPSCREW, 5-16-18X3/4, (See STEER SELECT VALVE for Breakdown)	
103		Ref	WASHER, 5/16, (See STEER SELECT VALVE for Breakdown)	
104		Ref	LOCKWASHER, 5/16, (See STEER SELECT VALVE for Breakdown)	
110	0641415	2	HEX HD CAPSCREW, 1/4-20X1 7/8, GR5	
122	2130606	2	ADAPTER, 90, (includes o-ring), (if equipped with hydraulic pump 1001105613)	
125	3311405	2	HEX LOCK NUT, 1/4-20, GR2, (if equipped with hydraulic pump 1001105613 & 1001170639)	
126	4711400	4	WASHER, 1/4, (if equipped with hydraulic pump 1001105613 & 1001170639)	
128	1001136375	1	HOSE ASSY, (if equipped with hydraulic pump 1001105613 & 1001170639)	
129	1001136495	1	MOUNTING BRACKET, (if equipped with hydraulic pump 1001105613 & 1001170639)	
131	1001136500	1	HOSE ASSY, (if equipped with hydraulic pump 1001105613 & 1001170639)	
132	1001136501	1	PRESSURE REDUCING VALVE, (if equipped with hydraulic pump 1001105613 & 1001170639)	
134	0100011	AR	LOCTITE 242, (not shown), (if equipped with hydraulic pump 1001105613 & 1001170639)	
226	2170706	1	ADAPTER, TEE, (includes o-ring), (if equipped with hydraulic pump 1001105613 & 1001170639)	
304		Ref	ELBOW, 45, (includes o-ring), (See DUMP CIRCUIT for Breakdown), (if equipped with hydraulic pump 1001105613 & 1001170639)	
308	2110606	1	CONNECTOR, (includes o-ring), (if equipped with hydraulic pump 1001105613 & 1001170639)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. DUMP CIRCUIT (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



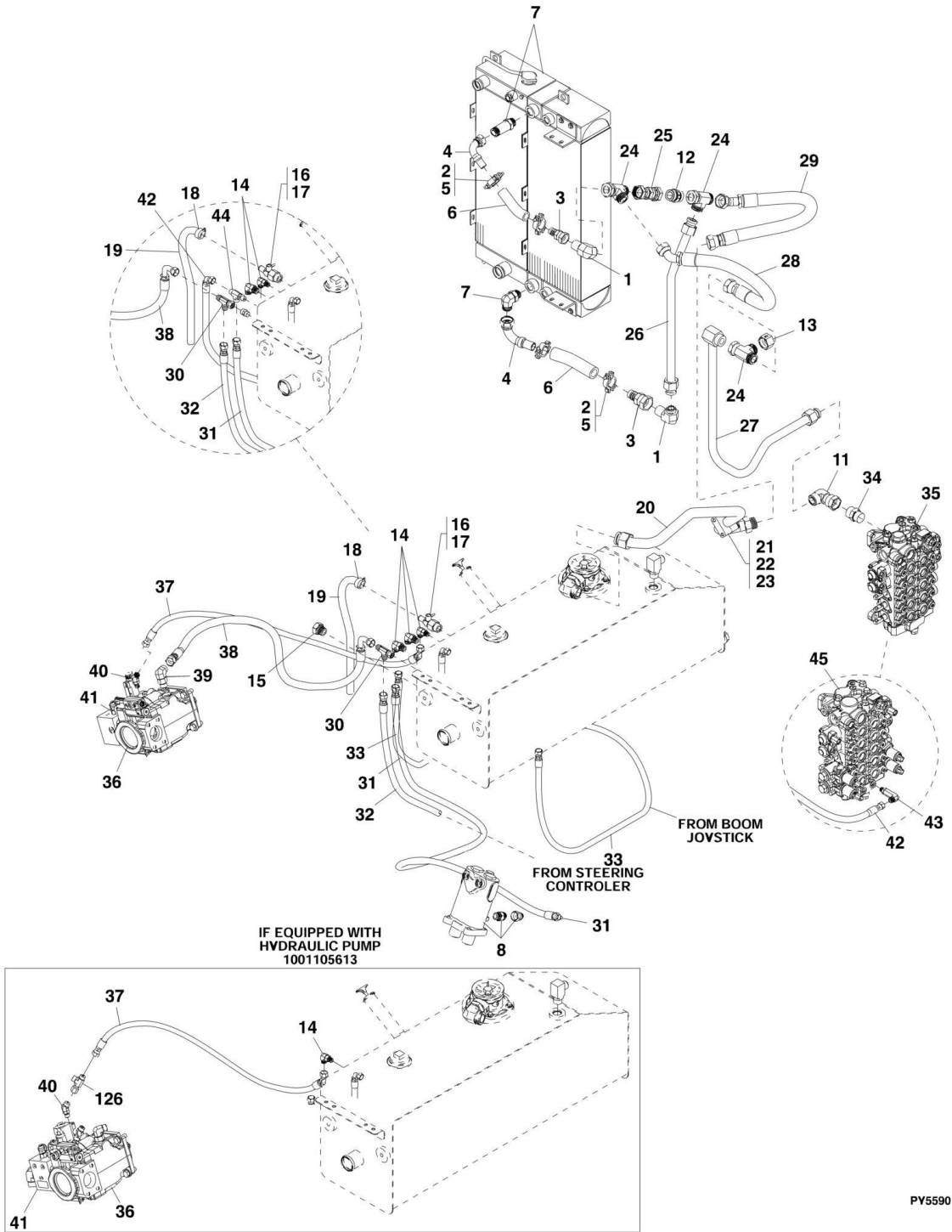
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. DUMP CIRCUIT (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	OIL COOLER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
2		Ref	CONNECTOR, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
3	84719878	1	HOSE ASSY	
4	91513183	1	TUBE ASSY	
5	84719953	1	HOSE ASSY	
6	91513182	1	TUBE ASSY	
7	91513171	1	TUBE ASSY	
8	2220377	1	CONNECTOR, (includes item 9)	
9	N.S.S.	1	O-RING	
10		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11		Ref	HOSE ASSY, (See BOOM JOYSTICK CIRCUIT for Breakdown)	
12	84719642	1	HOSE ASSY	
13		Ref	CONNECTOR, (See CONTROLS SECTION for Breakdown)	
14		Ref	POWER BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
15	84719857	1	HOSE ASSY	
16	88661367	1	FITTING	
17	84719867	1	HOSE ASSY	
18		Ref	PRIORITY VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
19		Ref	IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
20	84711342	2	SPLIT CLAMP	
21	4761800	4	LOCKWASHER, 1/2	
22	0641812	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
23	83783043	1	O-RING	
24	84719856	1	HOSE ASSY	
25	8765204	1	ELBOW, 90, (swivel nut)	
26	2220377	1	CONNECTOR, (includes item 27)	
27	N.S.S.	1	O-RING	
28	0100011	AR	LOCTITE 242	
29		Ref	OIL COOLER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
30	77133073	1	CLAMP, 1 IN DIA	
31	77133052	1	COVER PLATE	
32	0641412	2	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5	

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FIGURE 8-6. DUMP CIRCUIT (SN 0160040675 to Present, Including 0160040468 and 0160040672)



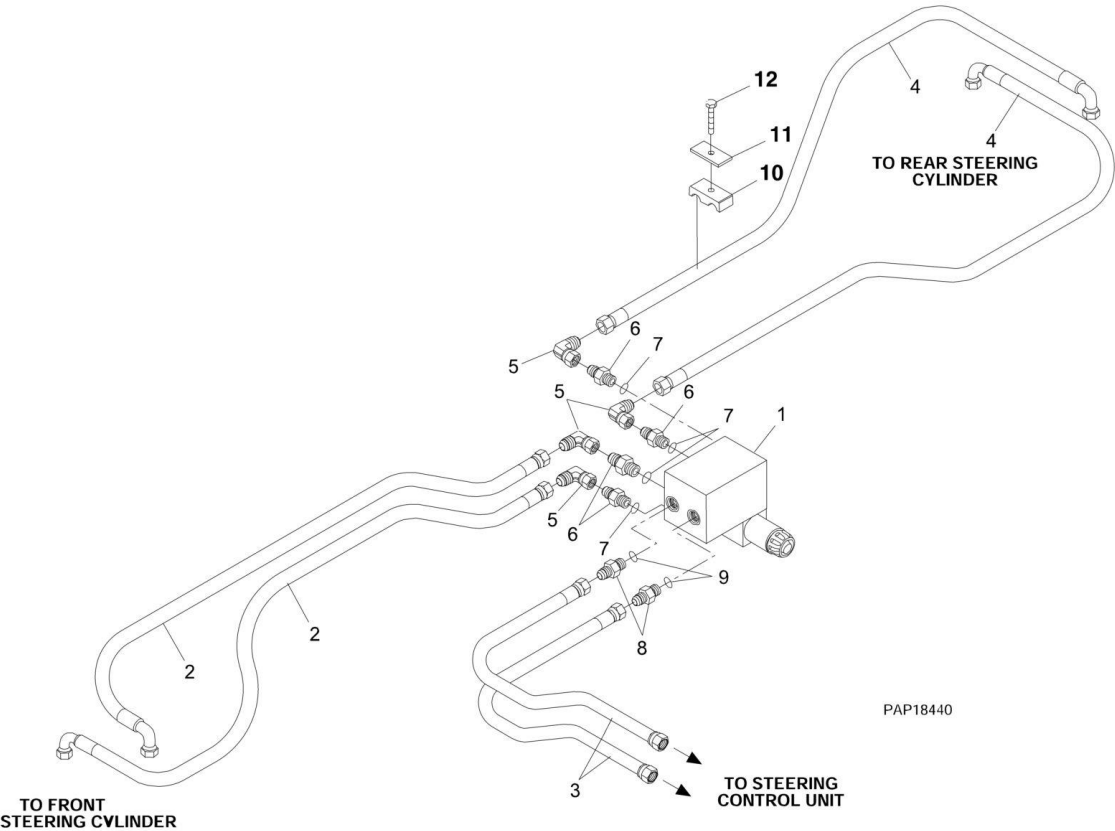
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. DUMP CIRCUIT (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2171216	2	ELBOW, 90, (bulkhead)	
2	88521206	8	LOCKNUT, 3/8-16	
3	1001118194	2	STEM FITTING, (straight)	
4	1001120620	2	STEM FITTING, (90)	
5	1001120625	4	DOUBLE BOLT HOSE CLAMP	
6	1001120665	2	COOLER HOSE	
7		Ref	RADIATOR ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
8		Ref	POWER BRAKE ASSY, (See CONTROLS SECTION for Breakdown)	
11	2172116	1	ELBOW, 90, (includes o-ring)	
12	1001159129	1	CHECK VALVE	
13	2170916	1	CAP	
14	2130606	3	ELBOW, 90, (includes o-ring)	
15	2220240	1	PLUG	
16	1001097250	1	ADAPTER	
17	1001093019	1	OIL DRAIN VALVE	
18	8405007	1	GEAR CLAMP	
19	1001109504	AR	HOSE ASSY	
20	1001111377	1	PIPE	
21	77133076	1	CLAMP SET	
22	77133075	1	COVER PLATE	
23	0641420	2	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	
24	2170716	3	RUN TEE, (includes o-ring)	
25	2172416	1	CONNECTOR, (includes o-ring)	
26	1001120192	1	PIPE	
27	1001120194	1	HOSE ASSY	
28	1001121466	1	HOSE ASSY	
29	1001121467	1	HOSE ASSY	
30	2170308	1	ADAPTER, RUN TEE, (includes o-ring)	
31	1001105623	1	HOSE ASSY	
32	1001105629	1	HOSE ASSY	
33	1001105630	1	HOSE ASSY	
34	2111616	1	CONNECTOR, (includes o-ring)	
35		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
36		Ref	HYDRAULIC PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
37	1001119536	1	HOSE ASSY	
38	1001119537	1	HOSE ASSY	
39	2130810	1	ELBOW, 90, (includes o-ring)	
40	2150606	1	ELBOW, 45, (includes o-ring)	
41		Ref	HYDRAULIC MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
42	1001127302	1	HOSE ASSY	
43	2170206	1	ADAPTER, 90, (includes o-ring)	
44	2170306	1	ADAPTER, TEE, (includes o-ring)	
45		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
126		Ref	ADAPTER, TEE, (includes o-ring), (See PRIORITY VALVE CIRCUIT for Breakdown)	

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FIGURE 8-7. STEER SELECT VALVE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



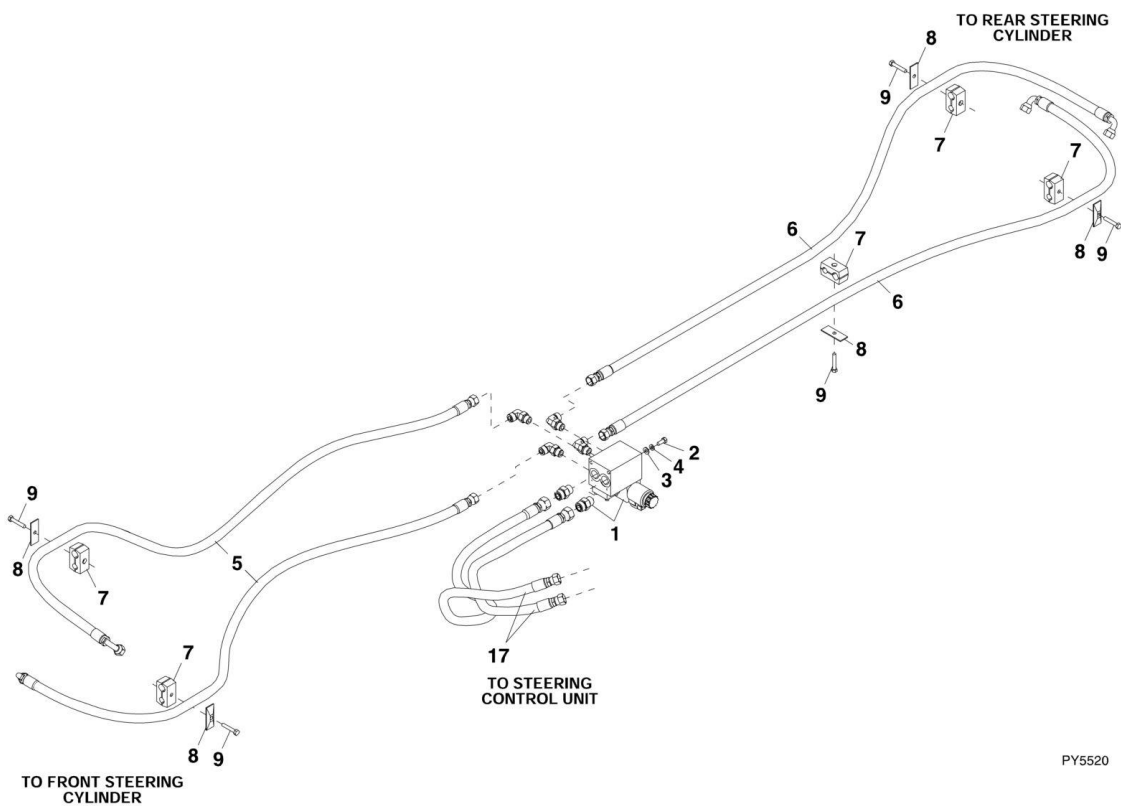
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-7. STEER SELECT VALVE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	STEER SELECT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	84719852	2	HOSE ASSY	
3	84719614	2	HOSE ASSY	
4	84719851	2	HOSE ASSY	
5	8765204	4	ELBOW, 90	
6	2220373	4	CONNECTOR, (includes item 7)	
7	N.S.S.	4	O-RING	
8	2220374	2	CONNECTOR, (includes item 9)	
9	N.S.S.	2	O-RING	
10	1320299	1	HOSE CLAMP	
11	77133137	1	COVER PLATE	
12	0641514	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	

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FIGURE 8-8. STEER SELECT VALVE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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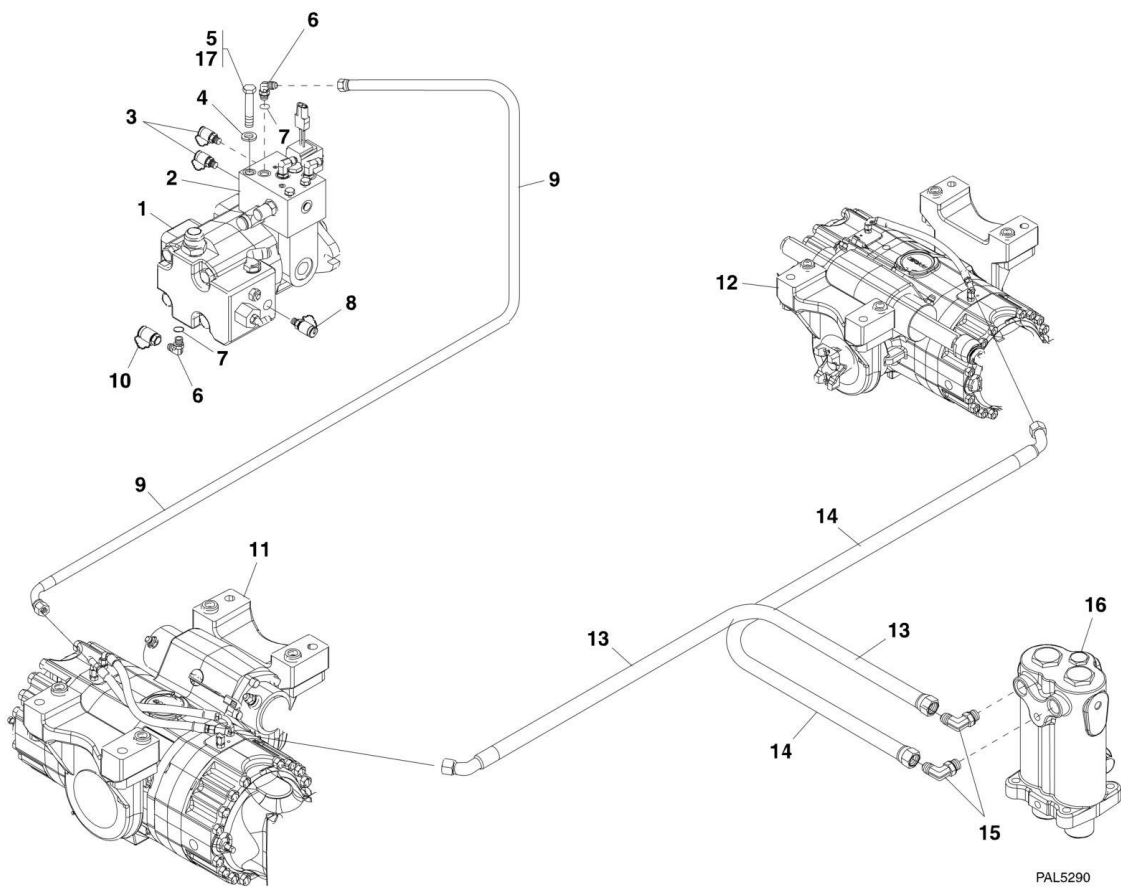
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. STEER SELECT VALVE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	STEER SELECT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	0641506	4	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
3	4711500	4	WASHER, 5/16	
4	4761500	4	LOCKWASHER, 5/16	
5	1001098440	2	HOSE ASSY	
6	1001098441	2	HOSE ASSY	
7	80933140	5	CLAMP SET	
8	77133137	5	TWIN CLAMP COVER PLATE	
9	0641514	5	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
17	1001096390	2	HOSE ASSY	

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FIGURE 8-9. SERVICE/PARKING BRAKE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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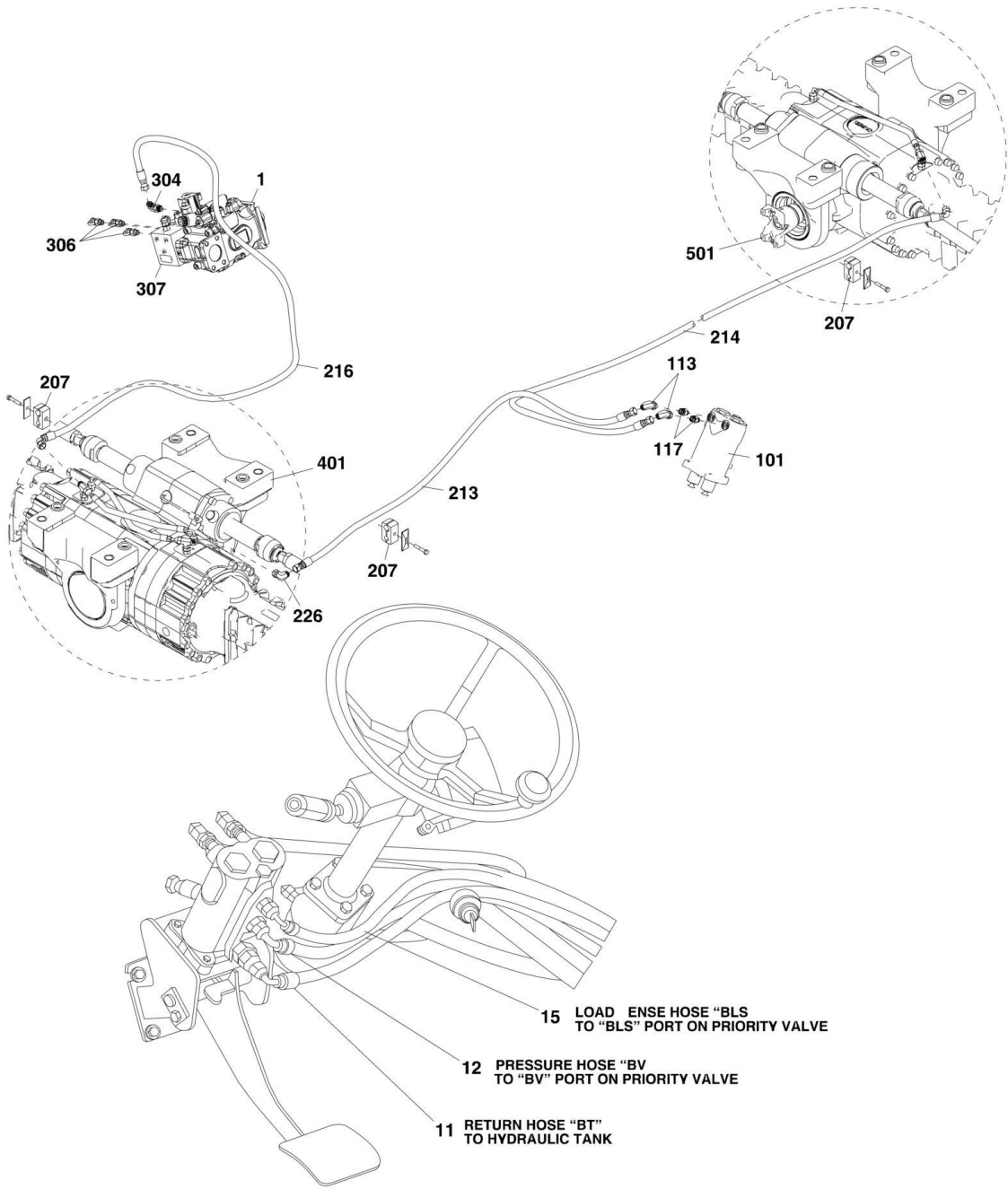
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-9. SERVICE/PARKING BRAKE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	IMPLEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2		Ref	PRIORITY VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	77133089	2	TEST COUPLING	
4	88551011	4	LOCKWASHER	
5	0641632	4	HEX HD CAPSCREW, 3/8-16X4, GR5	
6	2220473	2	ELBOW, 90, (includes item 7)	
7	N.S.S.	2	O-RING	
8	91053020	1	TEST COUPLING	
9	84719859	1	HOSE ASSY	
10	91143172	1	TEST COUPLING	
11		Ref	FRONT AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)	
12		Ref	REAR AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)	
13	84719860	1	HOSE ASSY	
14	84719861	1	HOSE ASSY	
15		Ref	ELBOW, 90, (See CONTROLS SECTION for Breakdown)	
16		Ref	POWER BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
17	0100011	AR	LOCTITE 242	

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FIGURE 8-10. SERVICE/PARKING BRAKE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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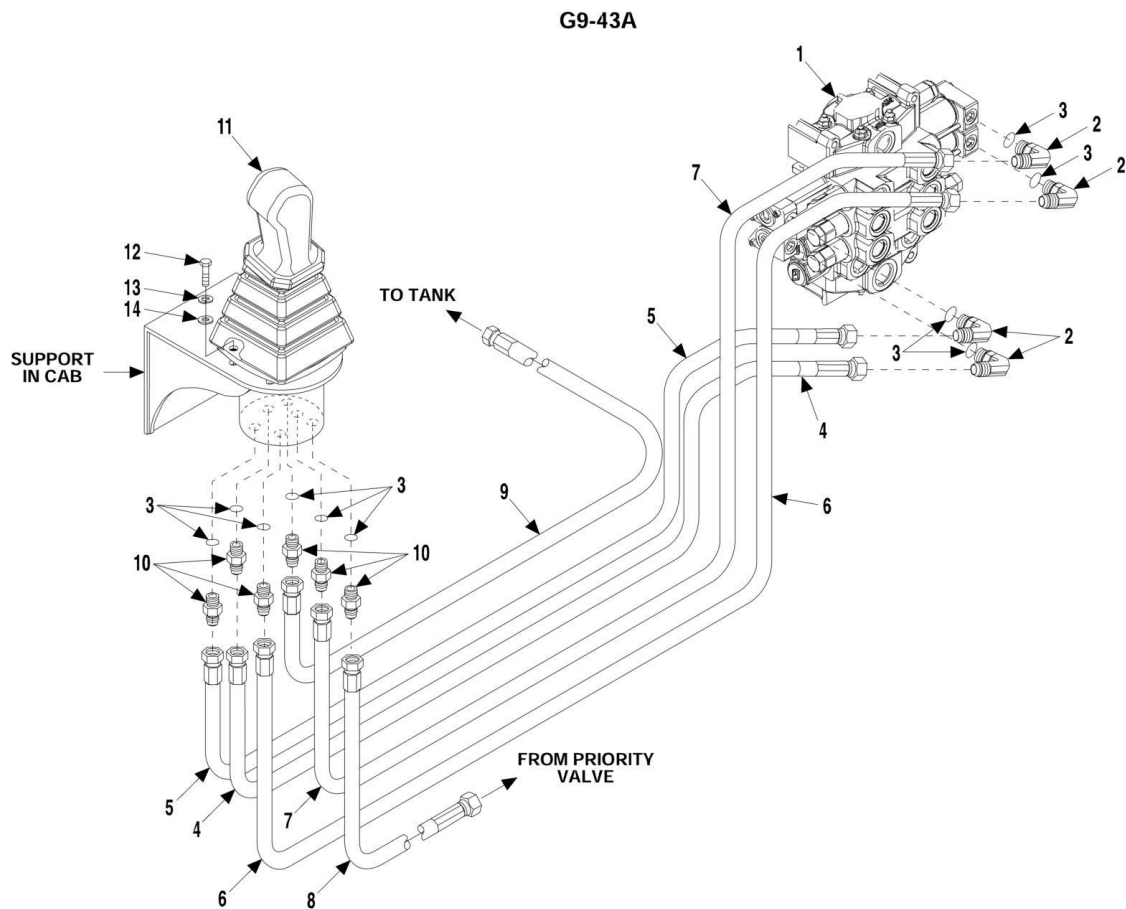
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. SERVICE/PARKING BRAKE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	VARIABLE DISPLACEMENT PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11	1001105623	1	HOSE ASSY	
12	1001105622	1	HOSE ASSY	
15	1001105692	1	HOSE ASSY	
101		Ref	BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
113	2172106	2	ADAPTER, 90, (includes o-ring)	
117	2144605	2	ADAPTER, STRAIGHT, (includes o-ring)	
207		Ref	CLAMP SET, (See STEER SELECT VALVE for Breakdown)	
213	1001098388	1	HOSE ASSY	
214	1001098389	1	HOSE ASSY	
216	1001105621	1	HOSE ASSY	
226	2172106	1	ADAPTER, 90, (includes o-ring)	
304	2150606	1	ADAPTER, 90, (includes o-ring)	
306	77133089	3	MINI-CHECK	
307		Ref	HYDRAULIC MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
401		Ref	FRONT AXLE, (See DRIVE TRAIN SECTION for Breakdown)	
501		Ref	REAR AXLE, (See DRIVE TRAIN SECTION for Breakdown)	

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FIGURE 8-11. BOOM JOYSTICK CIRCUIT (G9-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



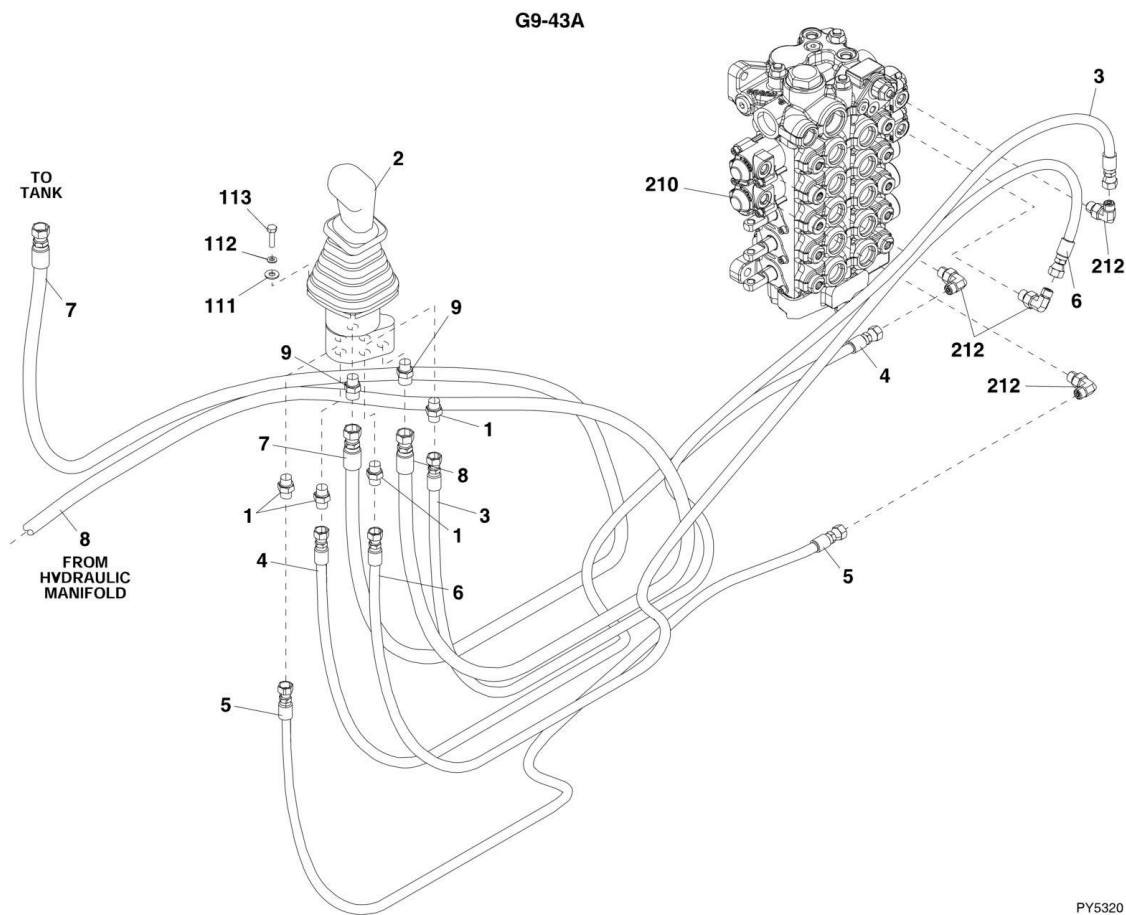
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-11. BOOM JOYSTICK CIRCUIT (G9-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	2220473	4	ELBOW, 90, (includes item 3)	
3	N.S.S.	10	O-RING	
4	84719879	1	HOSE ASSY	
5	84719863	1	HOSE ASSY	
6	84719880	1	HOSE ASSY	
7	84719864	1	HOSE ASSY	
8	84719862	1	HOSE ASSY (Prior to SN 0160025316)	
8	2755024	1	HOSE ASSY (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040672)	
9	84717020	1	HOSE ASSY	
10	2220371	6	CONNECTOR, (includes item 3)	
11		Ref	BOOM JOYSTICK, (See CONTROLS SECTION for Breakdown)	
12	88201005	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
13	88551009	4	LOCKWASHER, 1/4	
14	88551002	4	FLAT WASHER, 1/4	

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FIGURE 8-12. BOOM JOYSTICK CIRCUIT (G9-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



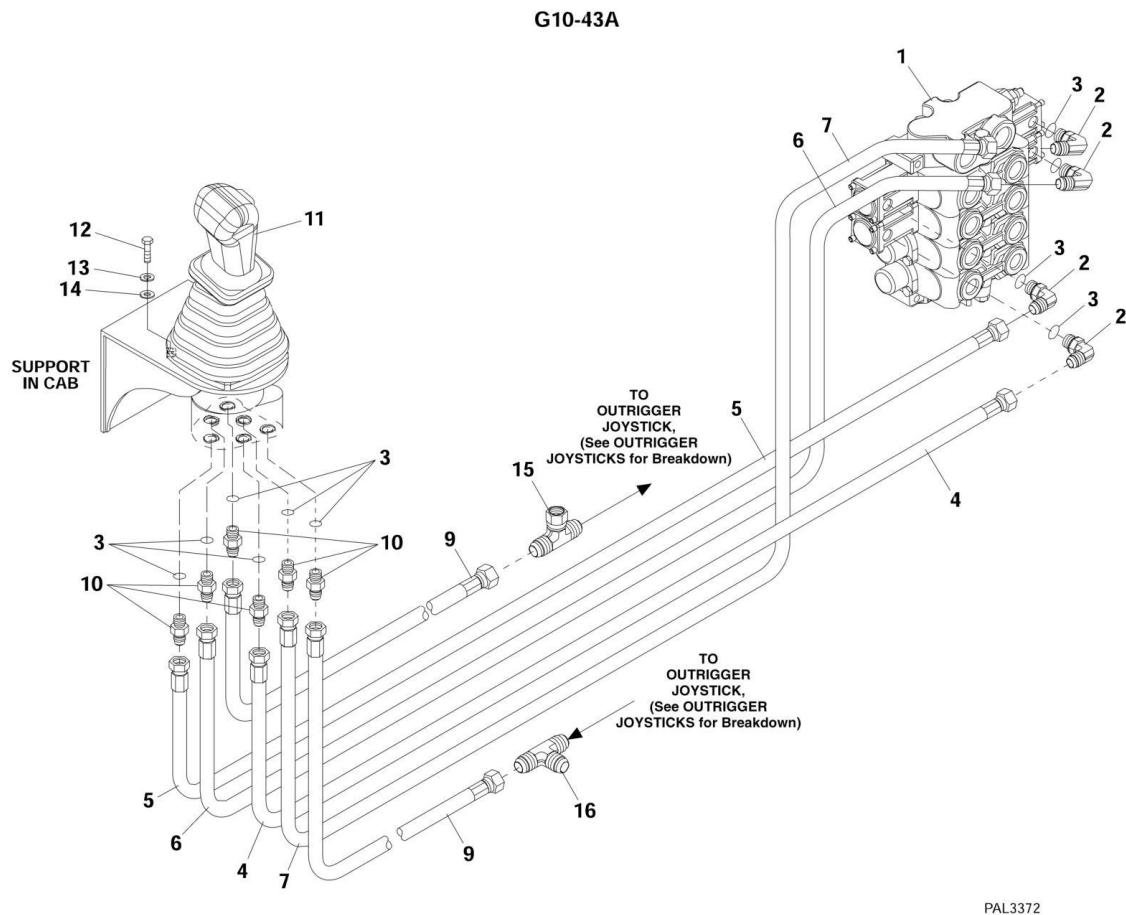
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-12. BOOM JOYSTICK CIRCUIT (G9-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110480	Ref	JOYSTICK ASSY INSTALLATION, (not available to order, see items 1 thru 9 for service)	H
1	2110406	4	ADAPTER, STRAIGHT, (includes o-ring)	
2		Ref	JOYSTICK ASSY, (See CONTROLS SECTION for Breakdown)	
3	1001098395	1	HOSE ASSY	
4	1001098396	1	HOSE ASSY	
5	1001098397	1	HOSE ASSY	
6	1001098398	1	HOSE ASSY	
7	1001105630	1	HOSE ASSY	
8	1001105631	1	HOSE ASSY	
9	2110606	2	ADAPTER, STRAIGHT, (includes o-ring)	
111	4751400	4	WASHER, 1/4	
112	4761400	4	LOCKWASHER, 1/4	
113	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
210		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
212	2130606	4	ADAPTER, 90, (includes o-ring)	

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FIGURE 8-13. BOOM JOYSTICK CIRCUIT (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



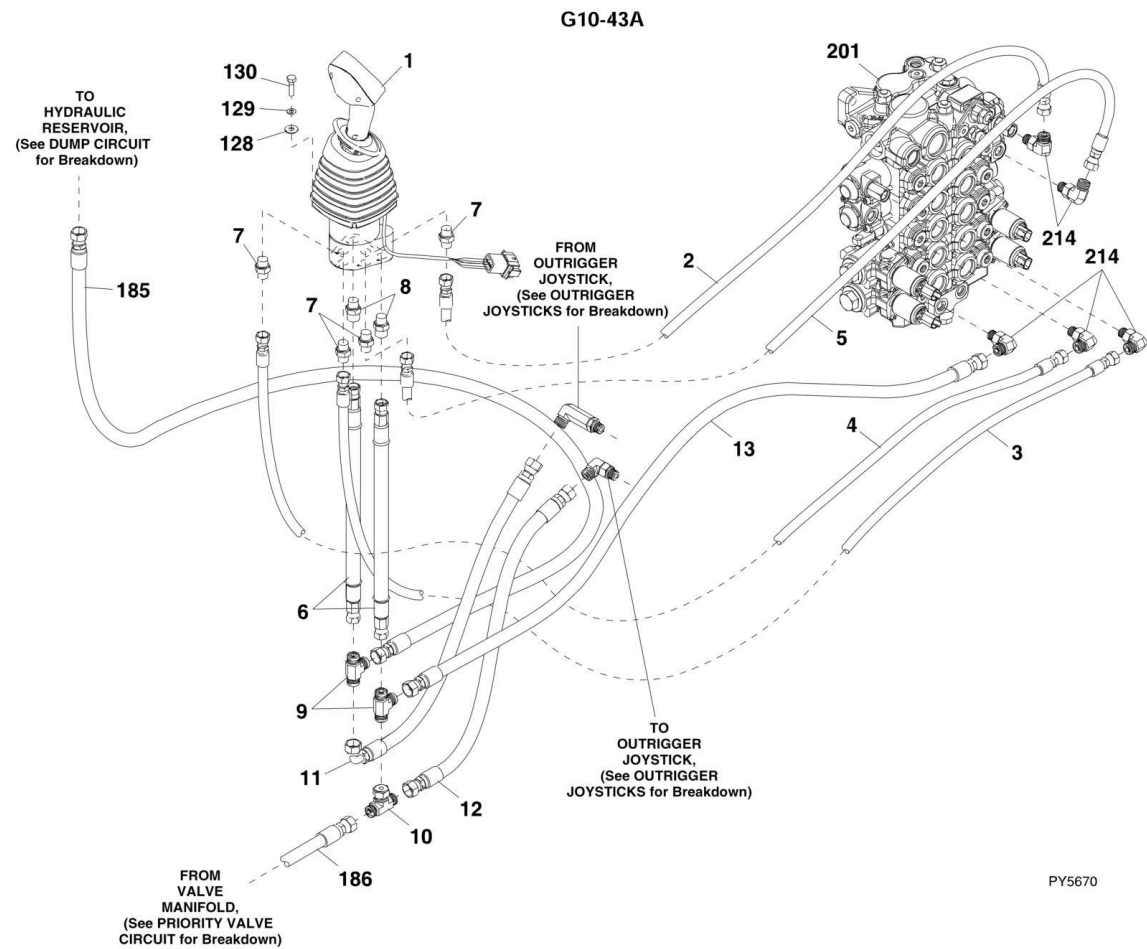
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FIGURE 8-13. BOOM JOYSTICK CIRCUIT (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	2130606	4	ELBOW, 90, (includes item 3)	
3	N.S.S.	10	O-RING	
4	1001110741	1	HOSE ASSY	
5	1001110743	1	HOSE ASSY	
6	1001110744	1	HOSE ASSY	
7	1001110739	1	HOSE ASSY	
9	1001110742	2	HOSE ASSY	
10	2110606	6	CONNECTOR, (includes item 3)	
11		Ref	BOOM JOYSTICK, (See CONTROLS SECTION for Breakdown)	
12	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
13	88551009	4	LOCKWASHER, 1/4	
14	88551002	4	FLAT WASHER, 1/4	
15		Ref	SWIVEL NUT RUN TEE, (See OUTRIGGER JOYSTICKS item 5 for Breakdown)	
16		Ref	RUN TEE, (See OUTRIGGER JOYSTICKS item 13 for Breakdown)	

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FIGURE 8-14. BOOM JOYSTICK CIRCUIT (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



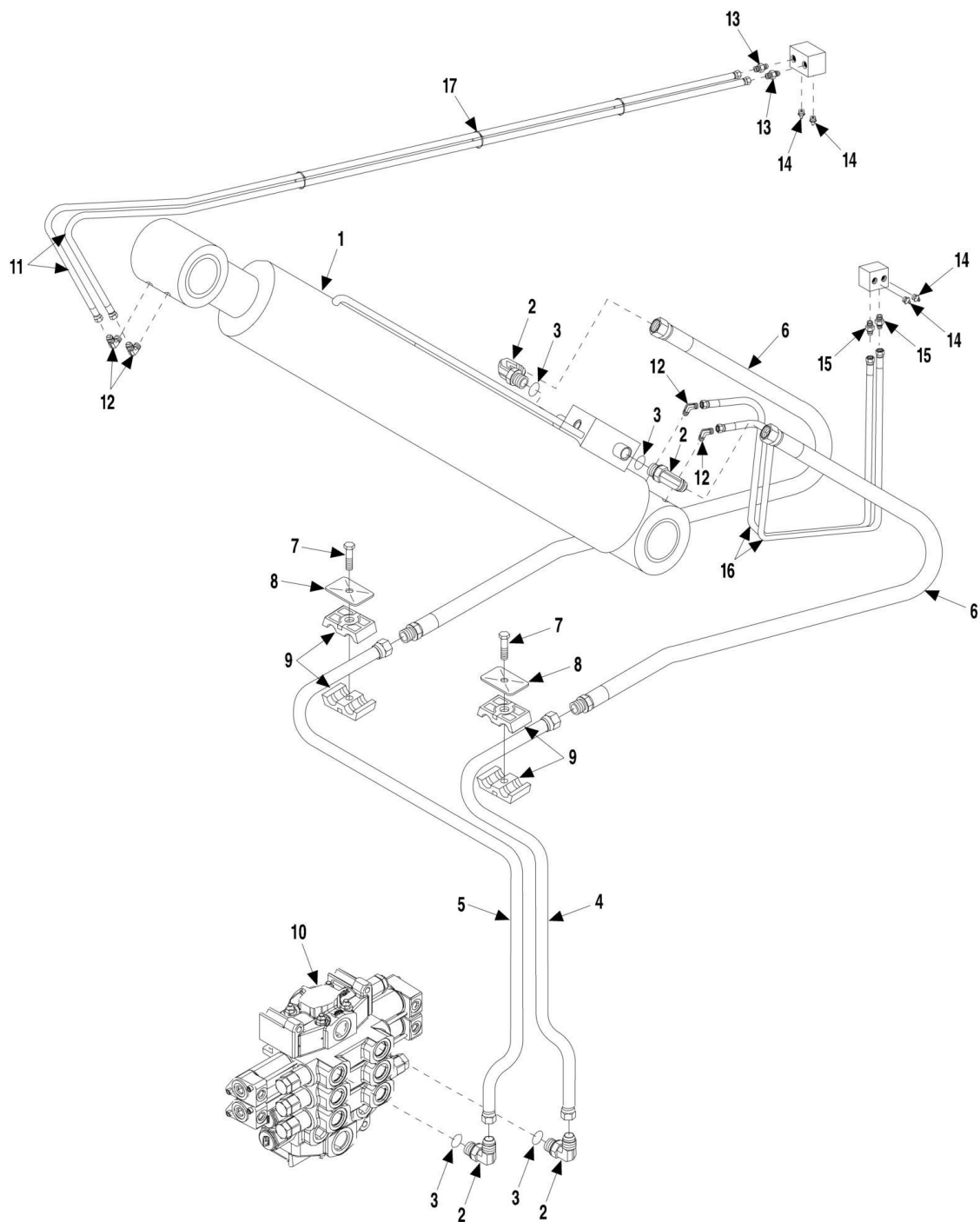
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-14. BOOM JOYSTICK CIRCUIT (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119528	Ref	HYDRAULIC JOYSTICK CONTROL, (not available to order, see items 1 thru 13 for service)	B
1		Ref	JOYSTICK CONTROL, (See CONTROLS SECTION for Breakdown)	
2	1001098395	1	HOSE ASSY	
3	1001098396	1	HOSE ASSY	
4	1001098397	1	HOSE ASSY	
5	1001098398	1	HOSE ASSY	
6	1001097926	2	HOSE ASSY	
7	2110406	4	ADAPTER, STRAIGHT, (includes o-ring)	
8	2110606	2	ADAPTER, STRAIGHT, (includes o-ring)	
9	2170506	2	ADAPTER, TEE, (includes o-ring)	
10	2170806	1	ADAPTER, BRANCH TEE, (includes o-ring)	
11	1001130033	1	HOSE ASSY	
12	1001130036	1	HOSE ASSY	
13	1001130037	1	HOSE ASSY	
128	4751400	4	WASHER, 1/4	
129	4761400	4	LOCKWASHER, 1/4	
130	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
185	1001130047	1	HOSE ASSY	
186		Ref	HOSE ASSY, (See PRIORITY VALVE CIRCUIT for Breakdown)	
201		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
214	2130606	5	ADAPTER, 90, (includes o-ring)	

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FIGURE 8-15. LIFT CYLINDER (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



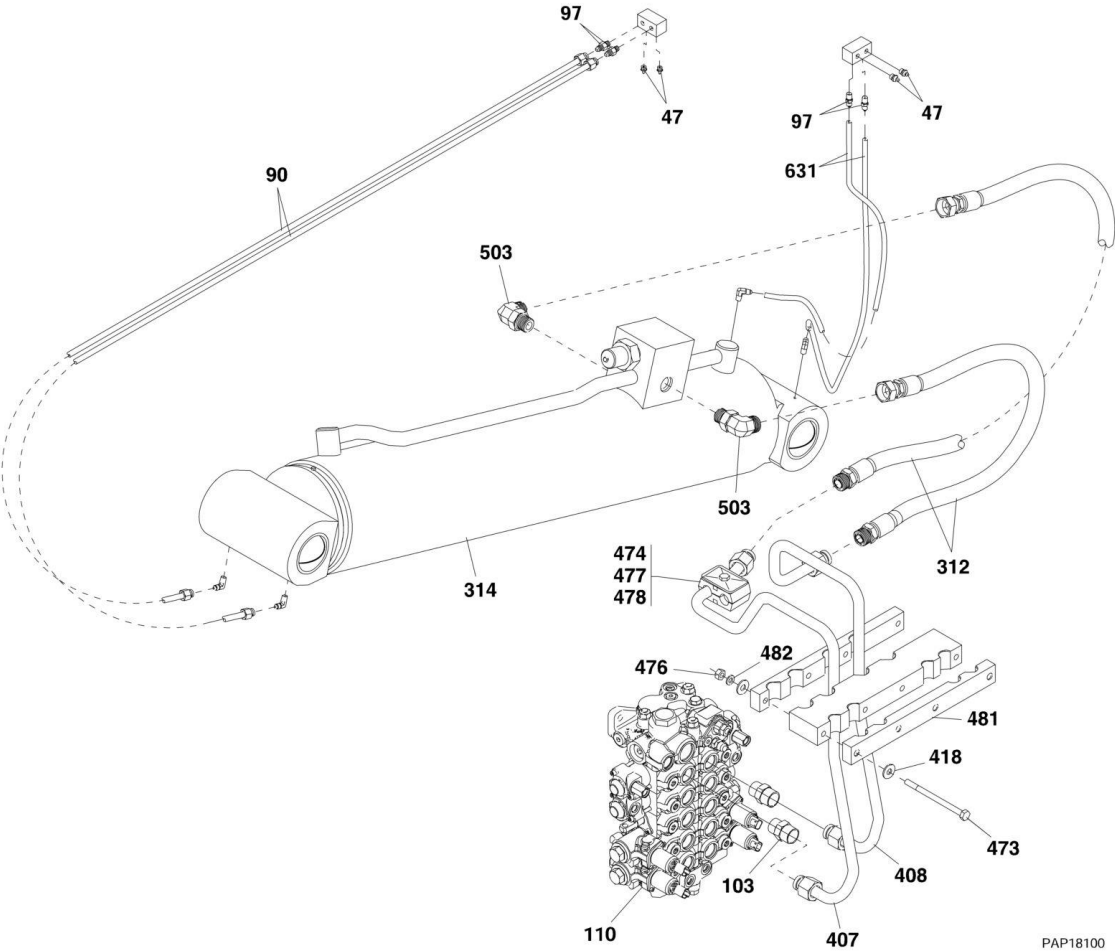
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-15. LIFT CYLINDER (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	LIFT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	2220578	4	ELBOW, 90, (includes item 3)	
3	N.S.S.	4	O-RING	
4	91513164	1	TUBE ASSY	
5	91513163	1	TUBE ASSY	
6	84719869	2	HOSE ASSY	
7	88201023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
8	77133137	2	COVER PLATE	
9	77133136	2	CLAMP SET	
10		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11	84718545	2	HOSE ASSY	
12	88661102	4	ELBOW, 90, 3/16X1/8 TUBE (Prior to SN 0160037671)	
13	2220574	2	MALE ADAPTER, 1/8X1/4 TUBE	
14	88671001	2	LUBE FITTING, STRAIGHT, 3/16X1/8 TUBE	
15	88661002	2	MALE CONNECTOR, 3/16X1/8 TUBE	
16	84719940	2	HOSE ASSY	
17	86683122	AR	TIE WRAP	

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FIGURE 8-16. LIFT CYLINDER (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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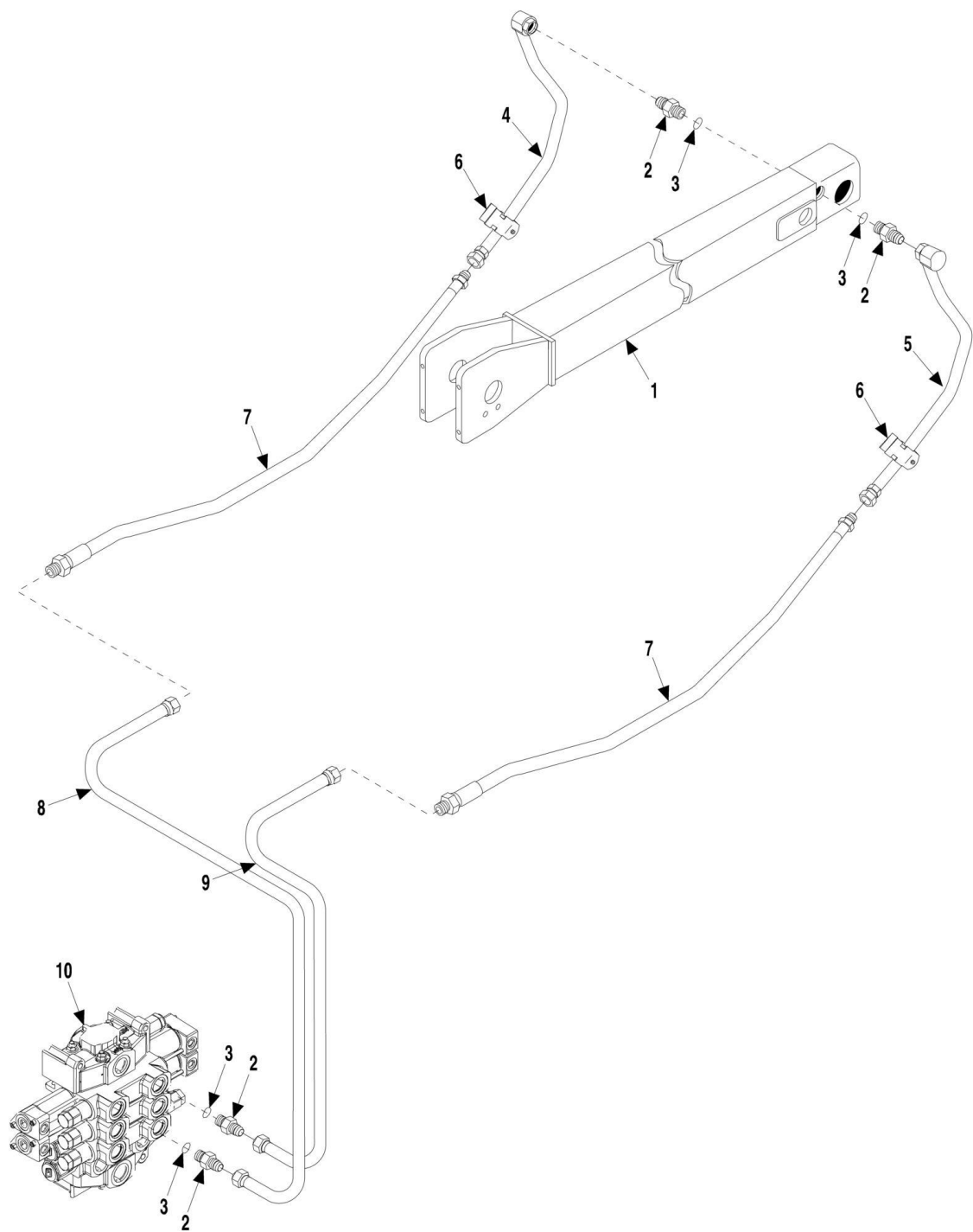
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-16. LIFT CYLINDER (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	2160002	4	GREASE FITTING, (straight)	
90	84718545	2	HOSE ASSY	
97	88661002	4	CONNECTOR	
103	2111212	2	CONNECTOR, (includes o-ring)	
110		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
312	1001105159	2	HOSE ASSY	
314		Ref	LIFT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
407	1001113495	1	PIPE ASSY	
408	1001113496	1	PIPE ASSY	
418	4751400	8	WASHER, 1/4	
473	0641430	4	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
474	0641514	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
476	3311401	4	HEX NUT, 1/4-20	
477	77133136	1	TWIN CLAMP	
478	77133137	1	COVER PLATE	
481	1001126756	1	TUBES CLAMP	
482	4761400	4	LOCKWASHER, 1/4	
503	2131212	2	ELBOW, 90, (includes o-ring)	
631	84719940	2	HOSE ASSY, GREASE	

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FIGURE 8-17. CROWD CYLINDER (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



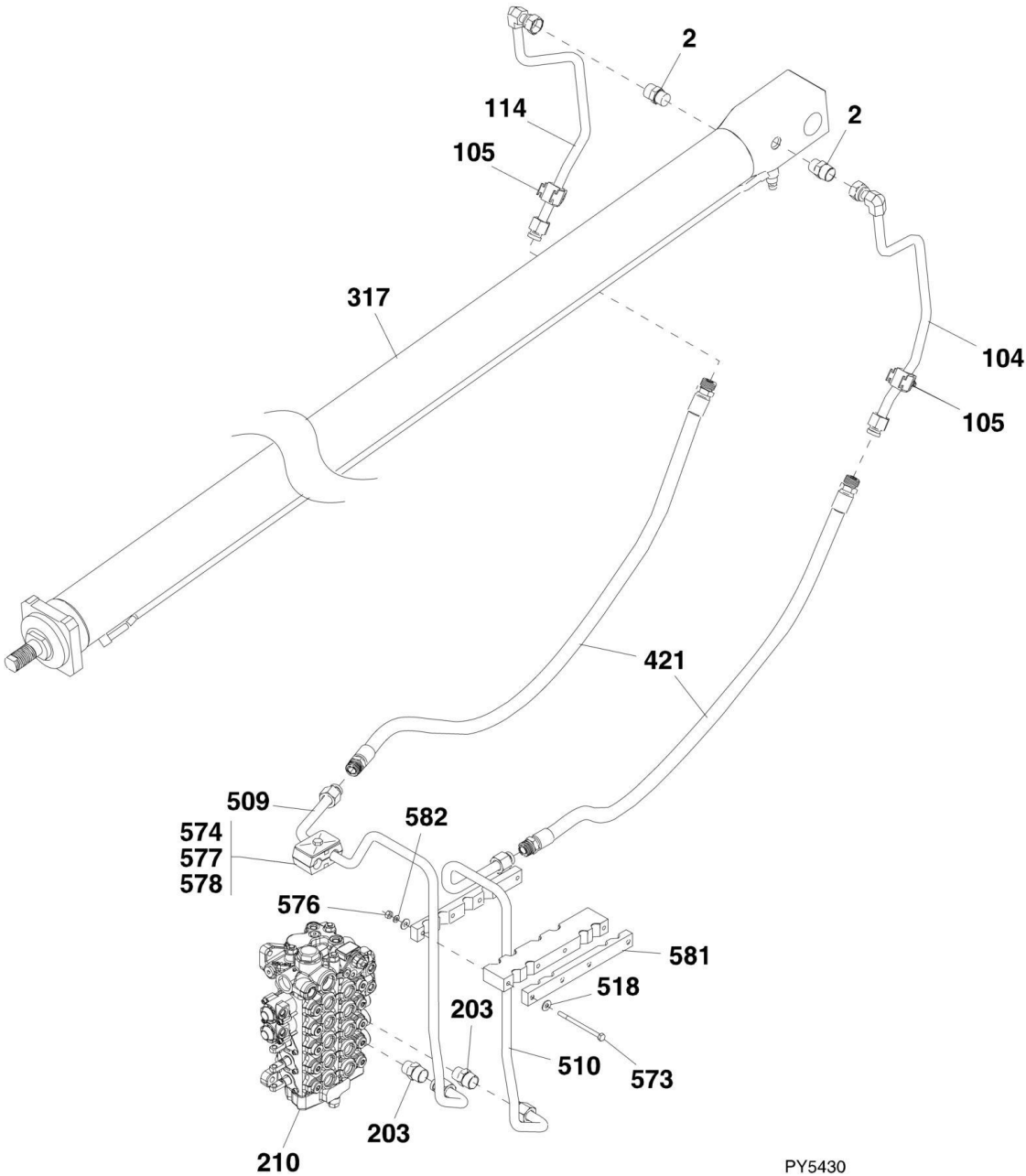
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-17. CROWD CYLINDER (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	CROWD CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	2220451	4	CONNECTOR, (includes item 3)	
3	N.S.S.	4	O-RING	
4	91513146	1	TUBE ASSY (Prior to SN 0160037671)	
4	1001102093	1	TUBE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
5	91513145	1	TUBE ASSY (Prior to SN 0160037671)	
5	1001102092	1	TUBE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
6	90207463	2	CLAMP	
7	84719870	2	HOSE ASSY (Prior to SN 0160037671)	
7	1001102930	2	HOSE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
8	91513165	1	TUBE ASSY	
9	1001113159	1	TUBE ASSY	
10		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

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FIGURE 8-18. CROWD CYLINDER (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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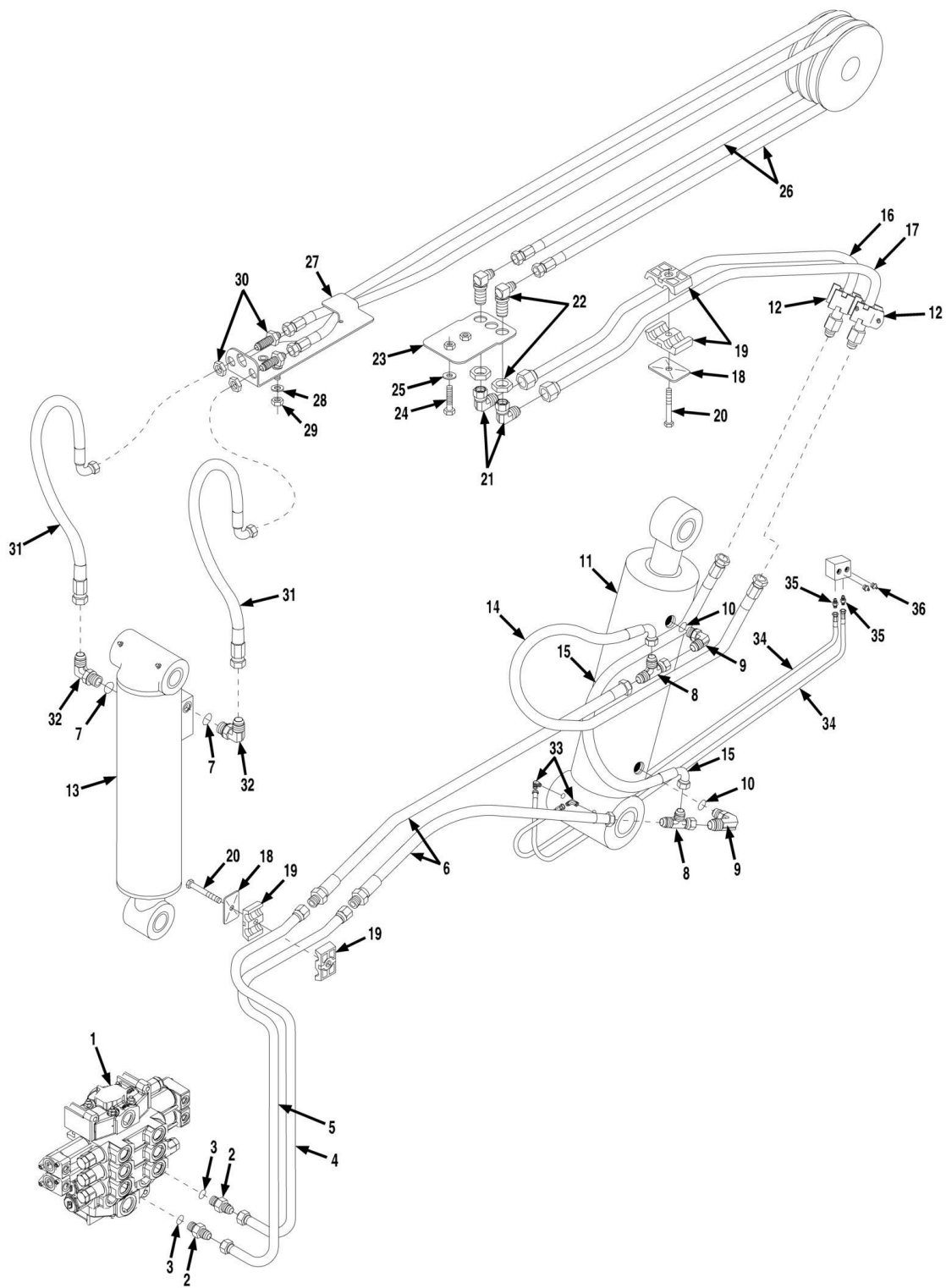
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-18. CROWD CYLINDER (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	2111212	2	CONNECTOR, (includes o-ring)	
104	1001107162	1	TUBE ASSY, (left)	
105	90207463	2	CLAMP	
114	1001102093	1	TUBE ASSY, (right)	
203	2111212	2	CONNECTOR, (includes o-ring)	
210		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
317		Ref	CROWD CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
421	1001103060	2	HOSE ASSY	
509	1001113497	1	PIPE ASSY	
510	1001113498	1	PIPE ASSY	
518	4751400	8	WASHER, 1/4	
573	0641430	4	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
574	0641514	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
576	3311401	4	HEX NUT, 1/4-20	
577	77133136	1	TWIN CLAMP	
578	77133137	1	COVER PLATE	
581	1001126756	1	TUBES CLAMP	
582	4761400	4	LOCKWASHER, 1/4	

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FIGURE 8-19. TILT AND TILT COMPENSATING CYLINDER (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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FIGURE 8-19. TILT AND TILT COMPENSATING CYLINDER (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

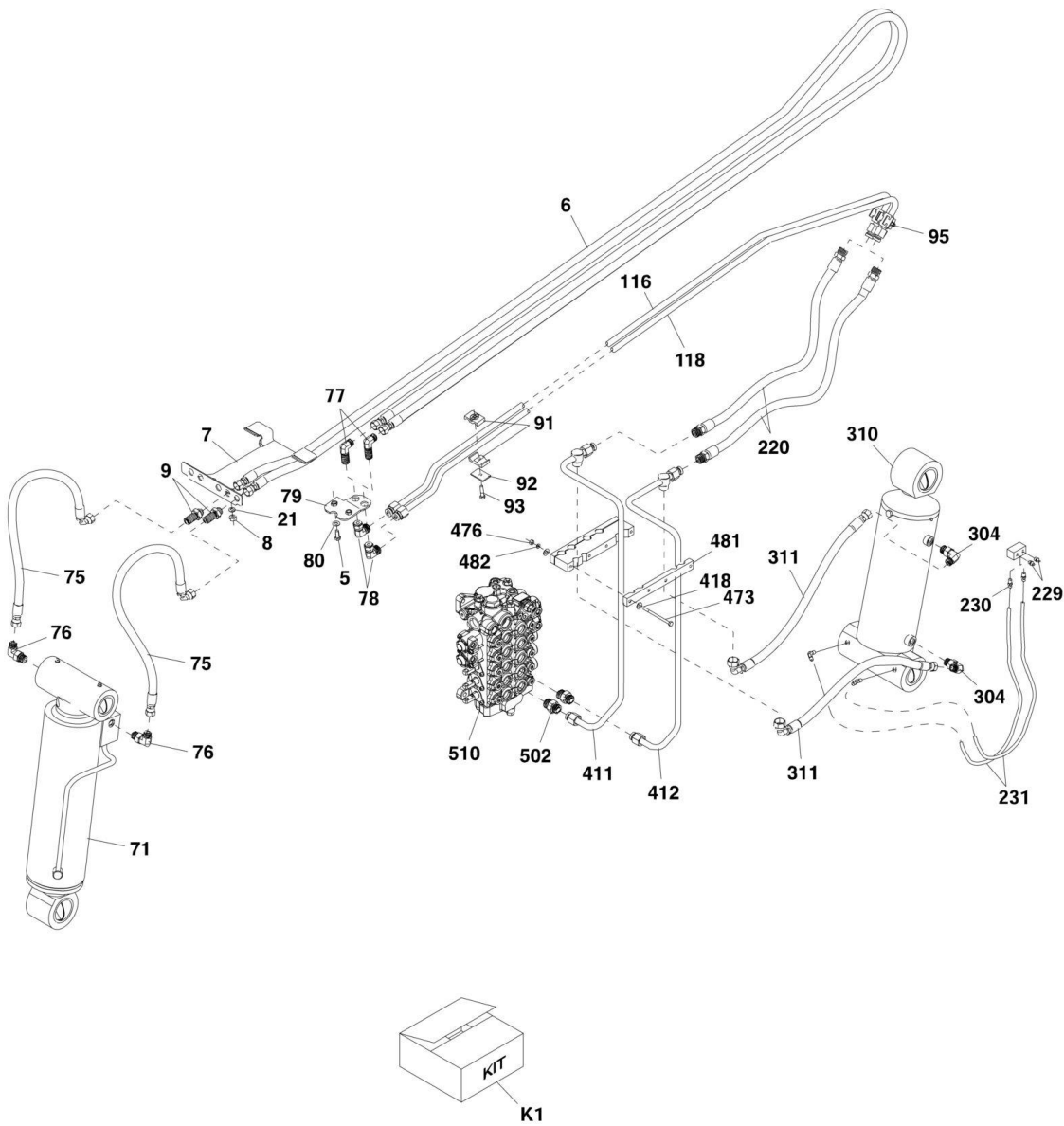
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	2220947	2	CONNECTOR, (includes item 3)	
3	N.S.S.	2	O-RING	
4	1001113153	1	TUBE ASSY	
5	91513167	1	TUBE ASSY	
6	84719871	2	HOSE ASSY	
7	88591206	2	O-RING	
8	2220385	2	SWIVEL NUT RUN TEE, 1/2 TUBE	
9	2220671	2	ELBOW, 90, (includes item 10)	
10	N.S.S.	2	O-RING	
11		Ref	COMPENSATING CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
12	91083217	2	CLAMP	
13		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
14	84719873	1	HOSE ASSY (Prior to SN 0160037671)	
14	1001102745	1	HOSE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
15	84719872	1	HOSE ASSY (Prior to SN 0160037671)	
15	1001102746	1	HOSE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
16	4569362	1	TUBE ASSY (Prior to SN 0160037671)	
16	1001001340	1	TUBE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
17	91513031	1	TUBE ASSY (Prior to SN 0160037671)	
17	1001001340	1	TUBE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
18	77133140	2	COVER PLATE	
19	77133139	2	CLAMP SET	
20	77133177	2	HEX HD CAPSCREW, 5/16X1-3/8	
21	91513140	2	FITTING, 90	
22	2230044	2	BULKHEAD FITTING, 90	
23	0903289	1	HOSE BRACKET (Prior to SN 0160037671)	
24	88201034	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
25	88561109	2	FLAT WASHER, 3/8	
26	84719754	2	HOSE ASSY (Prior to SN 0160016442, Including 0160016451 and , Excluding 0160015935 and 0160015936)	
26	2754504	1	HOSE ASSY (SN 0160016442 through 0160037670, Including 0160015935 and 0160015936, Excluding 0160016451 and)	
26	1001102977	1	HOSE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
27	91516021	1	HOSE RETAINER	
28	88551011	2	LOCKWASHER, 3/8 (Prior to SN 0160037671)	
28	4761600	2	LOCKWASHER, 3/8 (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
29	88501006	2	HEX NUT, 3/8-16	
30	2230025	2	BULKHEAD UNION, 9/16-16X1/2, TUBE (Prior to SN 0160037671)	
30	2171108	2	BULKHEAD UNION, 9/16-16X1/2, TUBE (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
31	84719755	2	HOSE ASSY (Prior to SN 0160037671)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	1001103293	2	HOSE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
32	2220671	2	ELBOW, 90, (includes item 7)	
33	88661102	2	MALE ELBOW, 90, 3/16X1/8 TUBE (Prior to SN 0160037671)	
34	84719940	2	HOSE ASSY, GREASE	
35	88661002	2	MALE CONNECTOR, 3/16X1/8 TUBE	
36	88671001	2	LUBE FITTING, STRAIGHT, 1/8X27	

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FIGURE 8-20. TILT AND TILT COMPENSATING CYLINDER (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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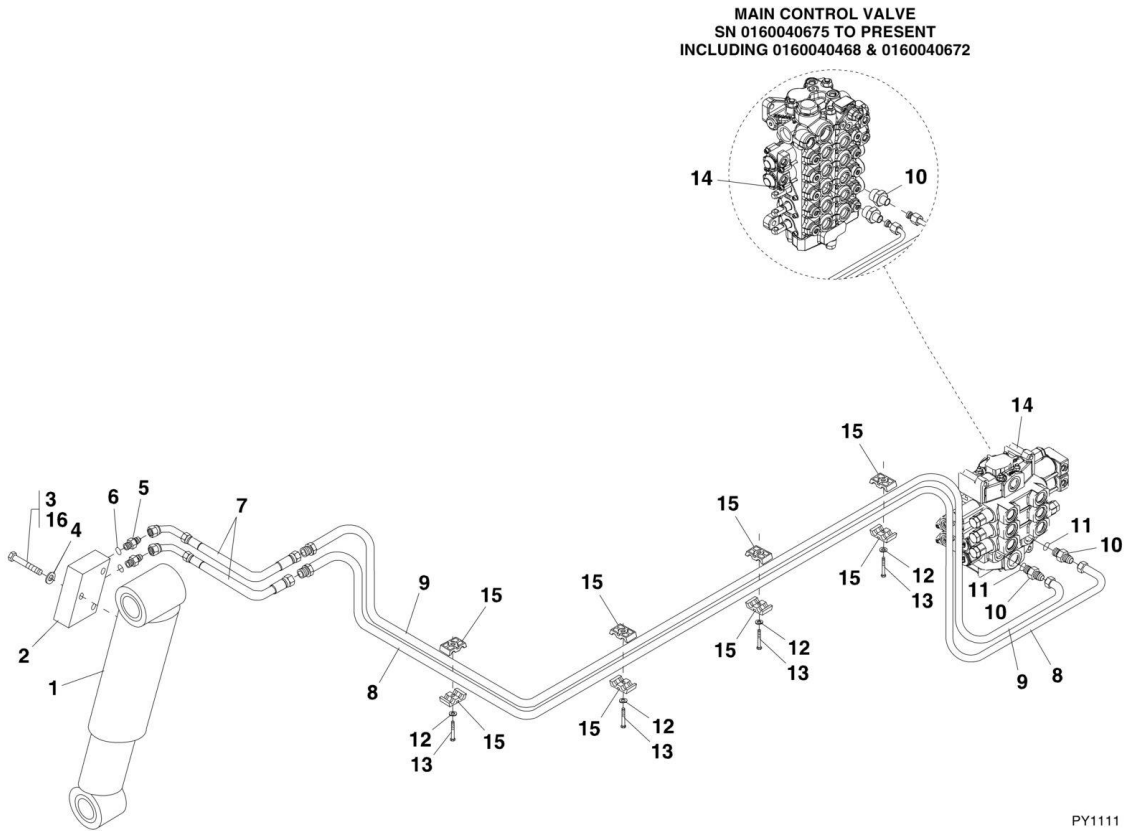
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-20. TILT AND TILT COMPENSATING CYLINDER (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
5	0641607	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
6	1001001335	1	TWINLINE HOSE	
7	1001113353	1	HOSE SUPPORT	
8	3311602	2	HEX NUT, 3/8-16	
9	2171108	2	BULKHEAD	
21	4761600	2	LOCKWASHER, 3/8	
71		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
75	1001001336	2	HOSE ASSY	
76	2130810	2	ELBOW, 90, (includes o-ring)	
77	2171208	2	BULKHEAD, 90	
78	2221254	2	BULKHEAD, 90, (swivel nut)	
79	1001090125	1	HOSE BRACKET (SN 0160037671 to Present)	
80	4711600	2	FLAT WASHER, 3/8	
91	77133139	4	CLAMP SET	
92	77133140	4	COVER PLATE	
93	77133177	4	HEX BOLT, 5/16X1-3/8	
95	91083217	2	CLAMP	
116	1001001340	1	TUBE ASSY	
220	1001103057	1	HOSE ASSY	
229	2160002	2	STRAIGHT LUBE FITTING	
230	88661002	2	MALE CONNECTOR, 3/16X1/8 TUBE	
231	84719940	2	HOSE ASSY, GREASE	
232	1001153342	1	HOSE ASSEMBLY	
304	2130810	2	ELBOW, 90, (includes o-ring)	
310		Ref	COMPENSATING CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
311	1001103039	2	HOSE ASSY	
411	1001113501	NLA	PIPE ASSEMBLY (no longer available, use Kit K1 for the replacement) (G9-43A) (Prior to SN 0160041324)	
411	1001130277	1	PIPE ASSEMBLY (G9-43A) (SN 0160041324 to Present)	
412	1001113502	NLA	PIPE ASSEMBLY (no longer available, use Kit K1 for the replacement) (G9-43A) (Prior to SN 0160041324)	
412	1001130279	1	PIPE ASSEMBLY (G9-43A) (SN 0160041324 to Present)	
418	4751400	8	WASHER, 1/4	
473	0641430	4	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
476	3311401	4	HEX NUT, 1/4-20	
481	1001126756	1	TUBES CLAMP	
482	4761400	4	LOCKWASHER, 1/4	
502	2111012	2	CONNECTOR, (includes o-ring)	
510		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
K1	1001130327	1	TUBE REPLACEMENT KIT	

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FIGURE 8-21. SWAY CYLINDER



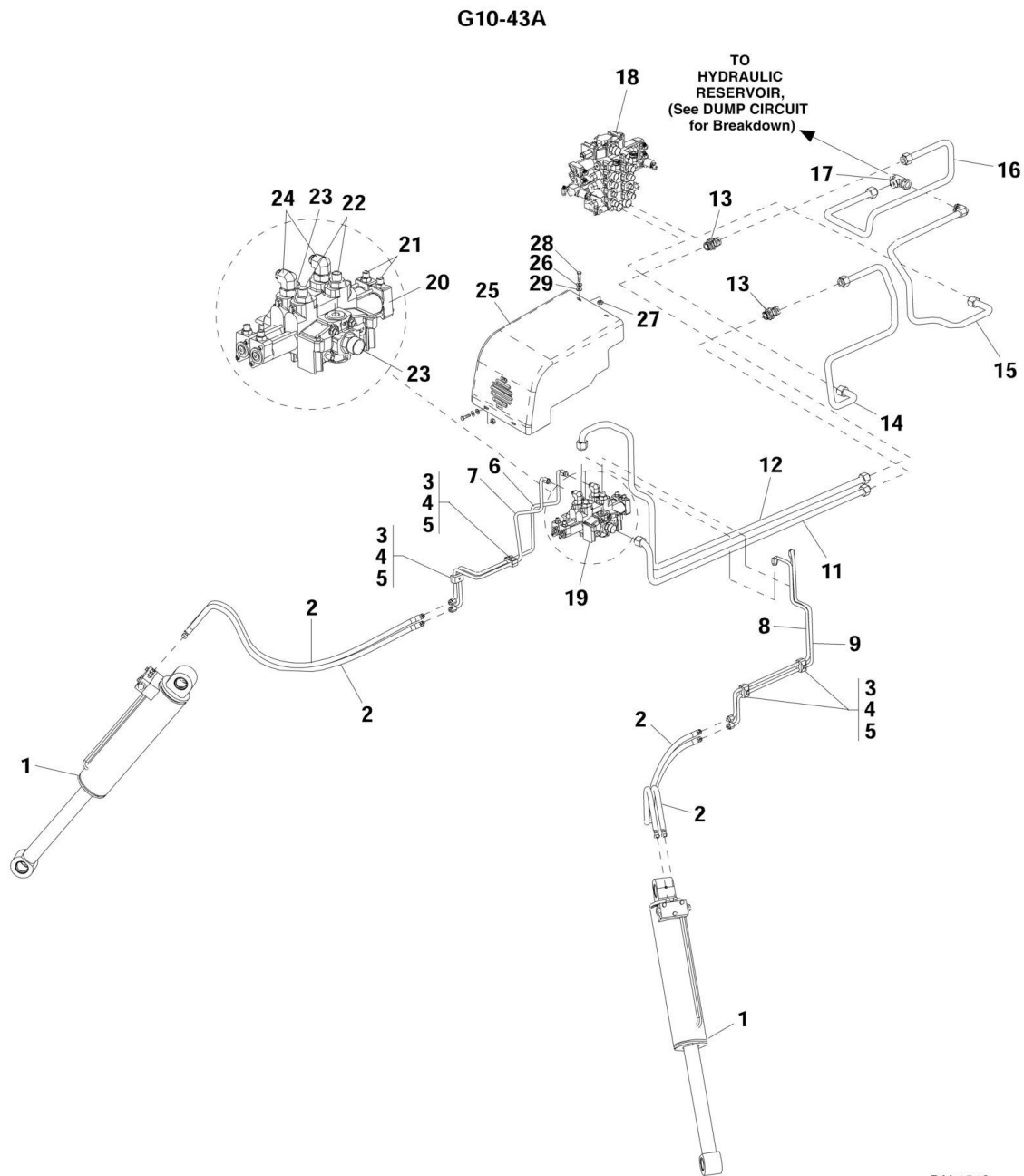
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-21. SWAY CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	SWAY CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2		Ref	SWAY CYLINDER VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	0641414	3	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5, (torque to 9-12 lb-ft)	
4	4761400	3	LOCKWASHER, 1/4	
5	2220371	2	CONNECTOR, (includes o-ring) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
5	2110606	2	CONNECTOR, (includes o-ring) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
6	N.S.S.	2	O-RING	
7	84719874	2	HOSE ASSY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
7	1001118560	2	HOSE ASSY (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
8	91513135	1	TUBE ASSY (Prior to SN 0160038369, Excluding 0160037974)	
8	1001112080	1	TUBE ASSY (SN 0160038369 through 0160040674, Including 0160037974, Excluding 0160040468 and 0160040672)	
8	1001105339	1	TUBE ASSY (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
9	91513134	1	TUBE ASSY (Prior to SN 0160038369, Excluding 0160037974)	
9	1001112079	1	TUBE ASSY (SN 0160038369 through 0160040674, Including 0160037974, Excluding 0160040468 and 0160040672)	
9	1001105338	1	TUBE ASSY (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
10	2220372	2	CONNECTOR, (includes o-ring) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
10	2110612	2	CONNECTOR, (includes o-ring) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
11	N.S.S.	2	O-RING	
12	4751400	4	FLAT WASHER, 1/4	
13	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
14		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
15	77133270	4	CLAMP SET	
16	0100011	AR	LOCTITE 242	

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FIGURE 8-22. OUTRIGGER CYLINDERS (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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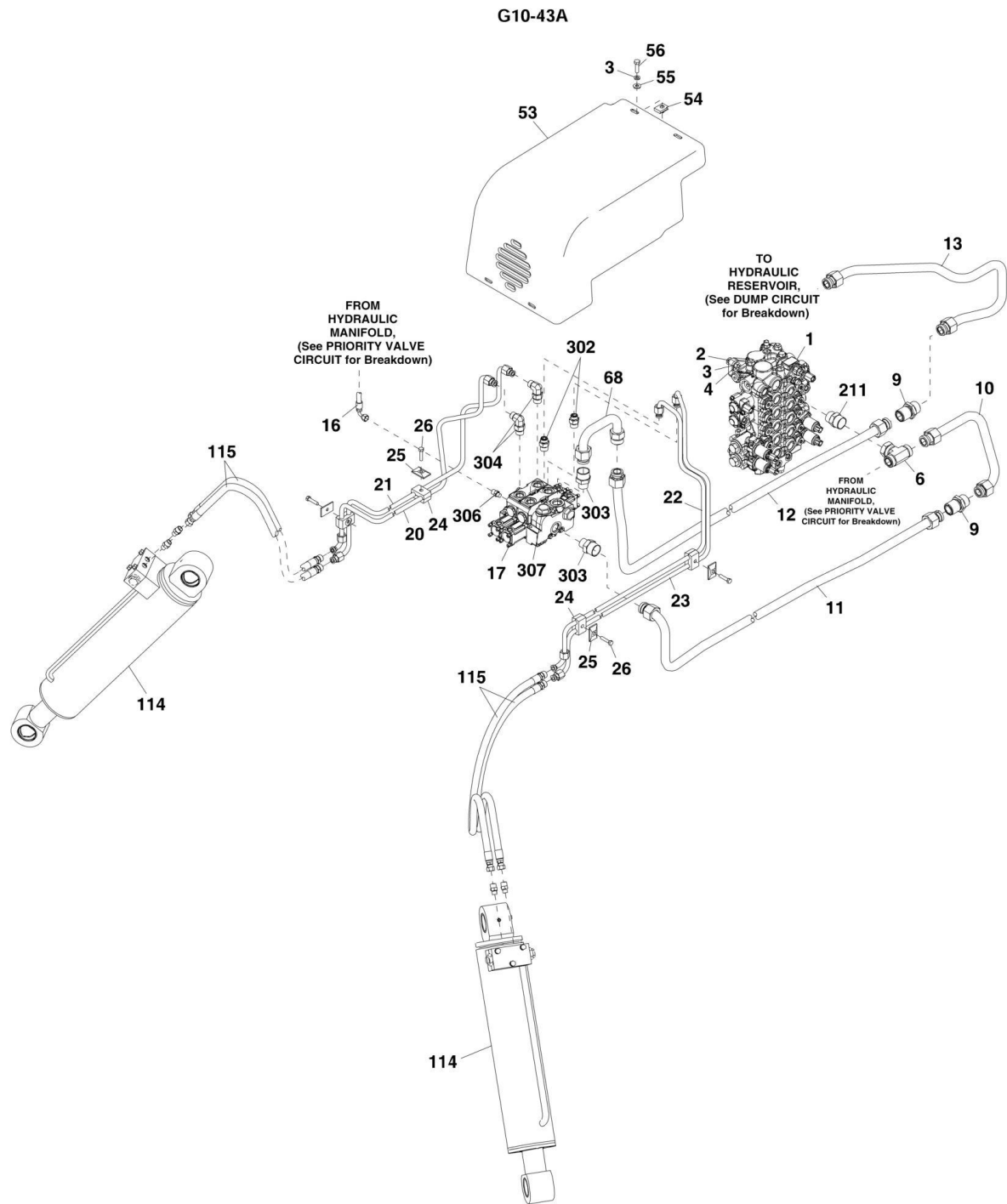
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FIGURE 8-22. OUTRIGGER CYLINDERS (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	1001110738	4	HOSE ASSY	
3	0641511	4	HEX HD CAPSCREW, 5/16-18X1-3/8	
4	77133140	4	COVER PLATE	
5	77133168	4	CLAMP	
6	1001090042	1	TUBE ASSY	
7	1001090039	1	TUBE ASSY	
8	1001090040	1	TUBE ASSY	
9	1001090041	1	TUBE ASSY	
11	1001090036	1	TUBE ASSY	
12	1001092252	1	TUBE ASSY	
13	2171116	2	BULKHEAD FITTING	
14	1001090035	1	TUBE ASSY	
15	1001090195	1	HYDRAULIC RETURN TUBE	
16	1001090037	1	TUBE ASSY	
17	2170716	1	SWIVEL RUN TEE	
18		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
19	1001090022	1	OUTRIGGER VALVE ASSY, (includes items 20 thru 24)	
20		Ref	OUTRIGGER CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
21	2110406	4	CONNECTOR, (includes o-ring)	
22	2110812	2	CONNECTOR, (includes o-ring)	
23	2111616	2	CONNECTOR, (includes o-ring)	
24	2130812	2	ELBOW, 90, (includes o-ring)	
25		Ref	FRONT COVER, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
26		Ref	LOCKWASHER, 3/8, (See FRAME AND ATTACHING PARTS SECTION item 46 for Breakdown)	
27		Ref	TINNERMAN NUT, (See FRAME AND ATTACHING PARTS SECTION item 67 for Breakdown)	
28		Ref	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5, (See FRAME AND ATTACHING PARTS SECTION item 11 for Breakdown)	
29		Ref	FLAT WASHER, 3/8, (See FRAME AND ATTACHING PARTS SECTION 18 for Breakdown)	

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FIGURE 8-23. OUTRIGGER CYLINDERS (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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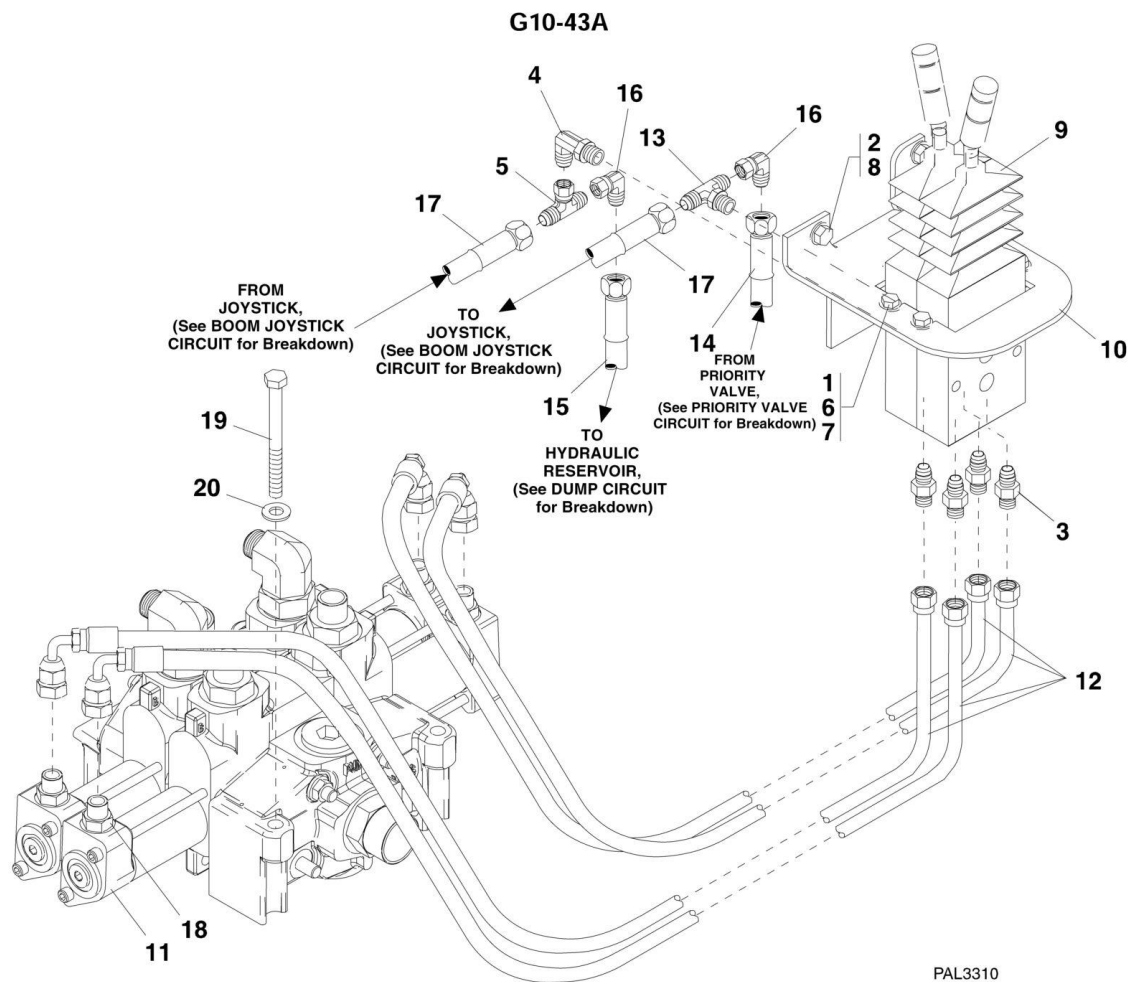
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FIGURE 8-23. OUTRIGGER CYLINDERS (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	MAIN CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	8304042	4	CARRIAGE BOLT, 3/8-16X1-1/2, GR2	
3	4761600	8	LOCKWASHER, 3/8	
4	88501006	4	HEX NUT, 3/8-16	
6	2170816	1	ADAPTER, BRANCH TEE, (includes o-ring)	
9	2171116	2	FITTING, BULKHEAD UNION	
10	1001105751	1	HYDRAULIC PIPE	
11	1001105752	1	HYDRAULIC PIPE	
12	1001105753	1	HYDRAULIC PIPE	
13	1001118065	1	HYDRAULIC PIPE	
16	1001127442	1	HOSE ASSY	
17		Ref	OUTRIGGER CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
20	1001105755	1	HYDRAULIC PIPE	
21	1001105756	1	HYDRAULIC PIPE	
22	1001105757	1	HYDRAULIC PIPE	
23	1001105758	1	HYDRAULIC PIPE	
24	77133168	4	CLAMP SET	
25	77133140	4	COVER PLATE	
26	0641511	4	HEX HD CAPSCREW, 5/16-18X1-3/8, GR5	
53		Ref	OUTRIGGER VALVE COVER, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
54	88662523	4	TINNERMAN NUT	
55	4751600	4	WASHER, 3/8	
56	0641610	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
68	1001108288	1	HYDRAULIC PIPE	
114		Ref	OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
115	1001165142	4	HOSE ASSY	
211	2111616	1	ADAPTER, STRAIGHT, (includes o-ring)	
302	2110810	2	ADAPTER, STRAIGHT, (includes o-ring)	
303	2111612	2	ADAPTER, STRAIGHT, (includes o-ring)	
304	2130810	2	ADAPTER, 90, (includes o-ring)	
306	2110404	1	ADAPTER, STRAIGHT, (includes o-ring)	
307	2220240	3	ADAPTER, PLUG	

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FIGURE 8-24. OUTRIGGER JOYSTICKS (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



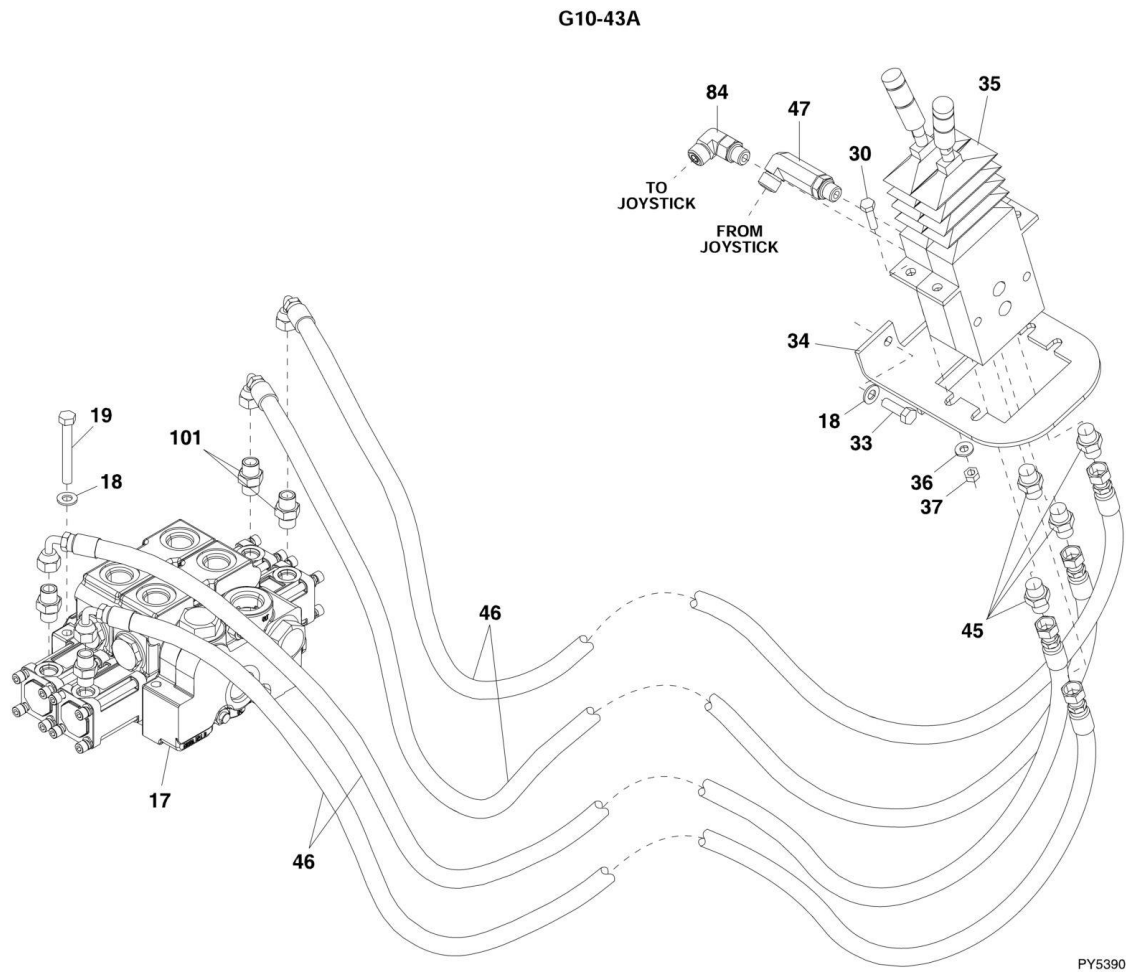
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-24. OUTRIGGER JOYSTICKS (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0641408	4	HEX HD CAPSCREW, 1/4-20X1.00, GR5	
2	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
3	2110406	4	CONNECTOR, (includes o-ring)	
4	2170206	1	ELBOW, 90	
5	2170806	1	CONNECTOR, BRANCH TEE, (swivel nut), (includes o-ring)	
6	3311405	4	NUT, 1/4-20, GR2	
7	4711400	4	FLAT WASHER, 1/4	
8	4711500	3	FLAT WASHER, 5/16	
9		Ref	CONTROLLER, (See CONTROLS SECTION for Breakdown)	
10	1001090021	1	CONTROLLER BRACKET	
11		Ref	OUTRIGGER CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
12	1001110745	4	HOSE ASSY	
13	2170406	1	CONNECTOR, BRANCH TEE, (includes o-ring)	
14	1001114708	1	HOSE ASSY	
15	1001110746	1	HOSE ASSY	
16	2172106	2	ELBOW, 90, (swivel nut), (includes o-ring)	
17		Ref	HOSE ASSY, (See BOOM JOYSTICK CIRCUIT item 9 for Breakdown)	
18		Ref	CONNECTOR, (See OUTRIGGER CYLINDERS item 21 for Breakdown)	
19	0641526	3	HEX HD CAPSCREW, 5/16-18X3-1/4, GR5	
20	4711500	3	FLAT WASHER, 5/16	

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FIGURE 8-25. OUTRIGGER JOYSTICKS (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



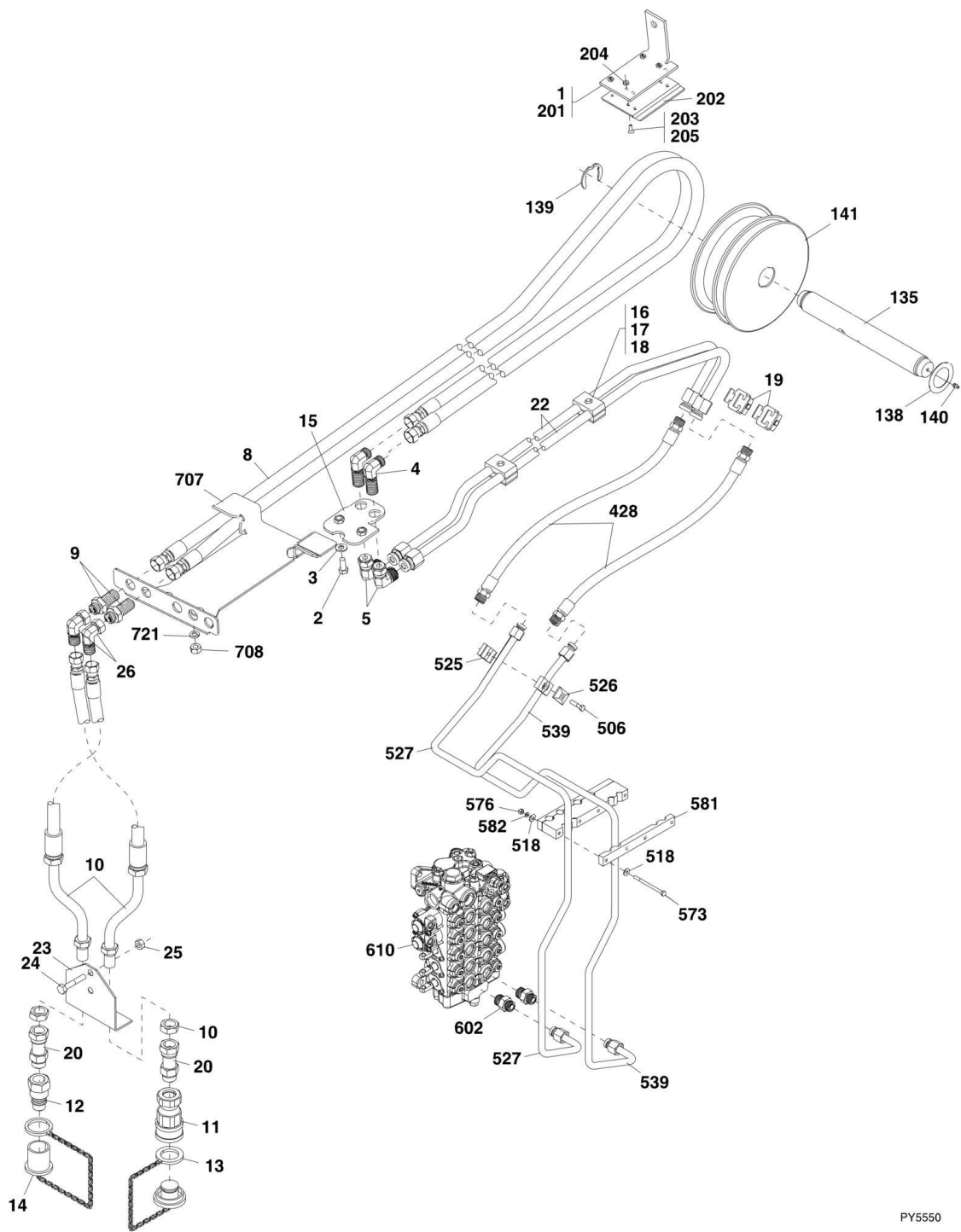
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FIGURE 8-25. OUTRIGGER JOYSTICKS (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17		Ref	OUTRIGGER VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
18	4711500	6	WASHER, 5/16	
19	0641520	3	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
30	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
33	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
34	1001090021	1	BRACKET	
35		Ref	CONTROLLER, (See CONTROLS SECTION for Breakdown)	
36	4711400	4	WASHER, 1/4	
37	3311405	4	HEX LOCKNUT, 1/4-20	
45	2110406	4	ADAPTER, STRAIGHT, (includes o-ring)	
46	2753787	4	HOSE ASSY	
47	2170206	1	ADAPTER, 90, (includes o-ring)	
84	2130606	1	ADAPTER, 90, (includes o-ring)	
101	2110406	4	ADAPTER, STRAIGHT, (includes o-ring)	

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FIGURE 8-26. AUXILIARY HYDRAULICS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5550

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FIGURE 8-26. AUXILIARY HYDRAULICS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91515028	1	HOSE RETAINER ASSY, (includes items 201 thru 205)	D
2	0641607	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
3	4711600	2	FLAT WASHER, 3/8	
4	2171208	2	BULKHEAD, 90	
5	2221254	2	ELBOW, 90, (swivel nut)	
8	1001001335	1	TWINLINE HOSE	
9	2171108	2	BULKHEAD FITTING	
10	1001001338	2	HYDRAULIC HOSE	
11	91403413	1	QUICK DISCONNECT COUPLER, FEMALE	
12	91403414	1	QUICK DISCONNECT COUPLER, MALE	
13	91043125	1	DUST PLUG	
14	91043126	1	DUST CAP	
15	1001090126	1	HOSE BRACKET	
16	77133139	4	CLAMP SET	
17	77133140	4	COVER PLATE	
18	77133177	4	HEX BOLT, 5/16X1-3/8	
19	91083217	2	CLAMP	
20	2180849	2	ADAPTER, STRAIGHT	
22	1001001341	2	TUBE ASSY	
23	1001098425	1	AUX MOUNT BRACKET	
24	0641612	2	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
25	8305645	2	HEX LOCKNUT, 3/8-16	
26	2172108	2	ADAPTER, 90, (includes o-ring)	
135	91513110	1	RETAINER SHEAVE PIN	
138	91403126	2	THRUST WASHER	
138	91403127	AR	THRUST WASHER	
139	90028932	1	RETAINING RING	
140	2160002	1	LUBE FITTING, STRAIGHT	
141	3580346	1	HOSE PULLEY	
201	91511111	1	HOSE RETAINER	
202	91513026	1	PAD	
203	88241023	4	FLAT HD SCREW, #10-24X5/8	
204	88501612	4	HEX NUT, #10-24	
205	14404102	AR	LOCTITE 277	
428	1001103250	2	HOSE ASSY	
506	0641511	1	HEX HD CAPSCREW, 5/16-18X1-3/8, GR5	
518	4751400	8	WASHER, 1/4	
525	77133139	1	CLAMP SET	
526	77133140	1	COVER PLATE	
527	1001113503	1	PIPE ASSY	
539	1001113504	1	PIPE ASSY	
573	0641430	4	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
576	3311401	4	HEX NUT, 1/4-20	
581	1001126756	1	TUBES CLAMP	
582	4761400	4	LOCKWASHER, 1/4	
602	2111012	2	CONNECTOR, (includes o-ring)	
610		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
707	1001113353	1	HOSE SUPPORT	

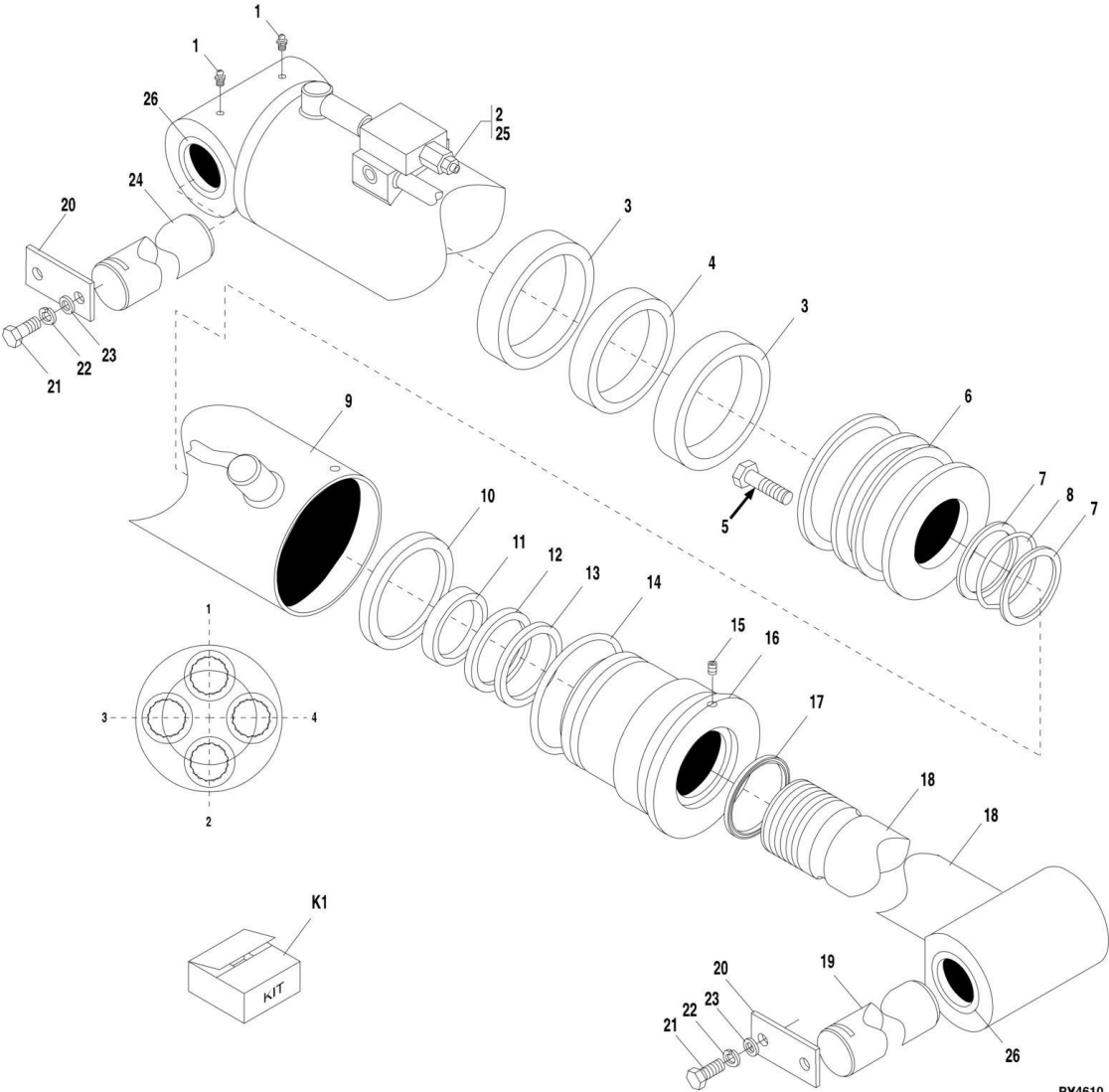
SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
708	88501006	2	HEAVY HEX NUT, 3/8-16	
721	4761600	2	LOCKWASHER, 3/8	

SECTION 9 - HYDRAULIC COMPONENTS

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. LIFT CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160007141)



NOTE: PISTON TORQUE FOR ITEMS 5.
1. TORQUE ITEM 5 IN SEQUENCE SHOWN AT 150 LB-FT
2. TORQUE ITEM 5 IN SEQUENCE SHOWN AT 300 LB-FT3. TORQUE ITEM 5 IN SEQUENCE SHOWN AT 460 LB-FT
4. CHECK TORQUE IN CIRCULAR PATTERN. (MIN 2 TIMES)

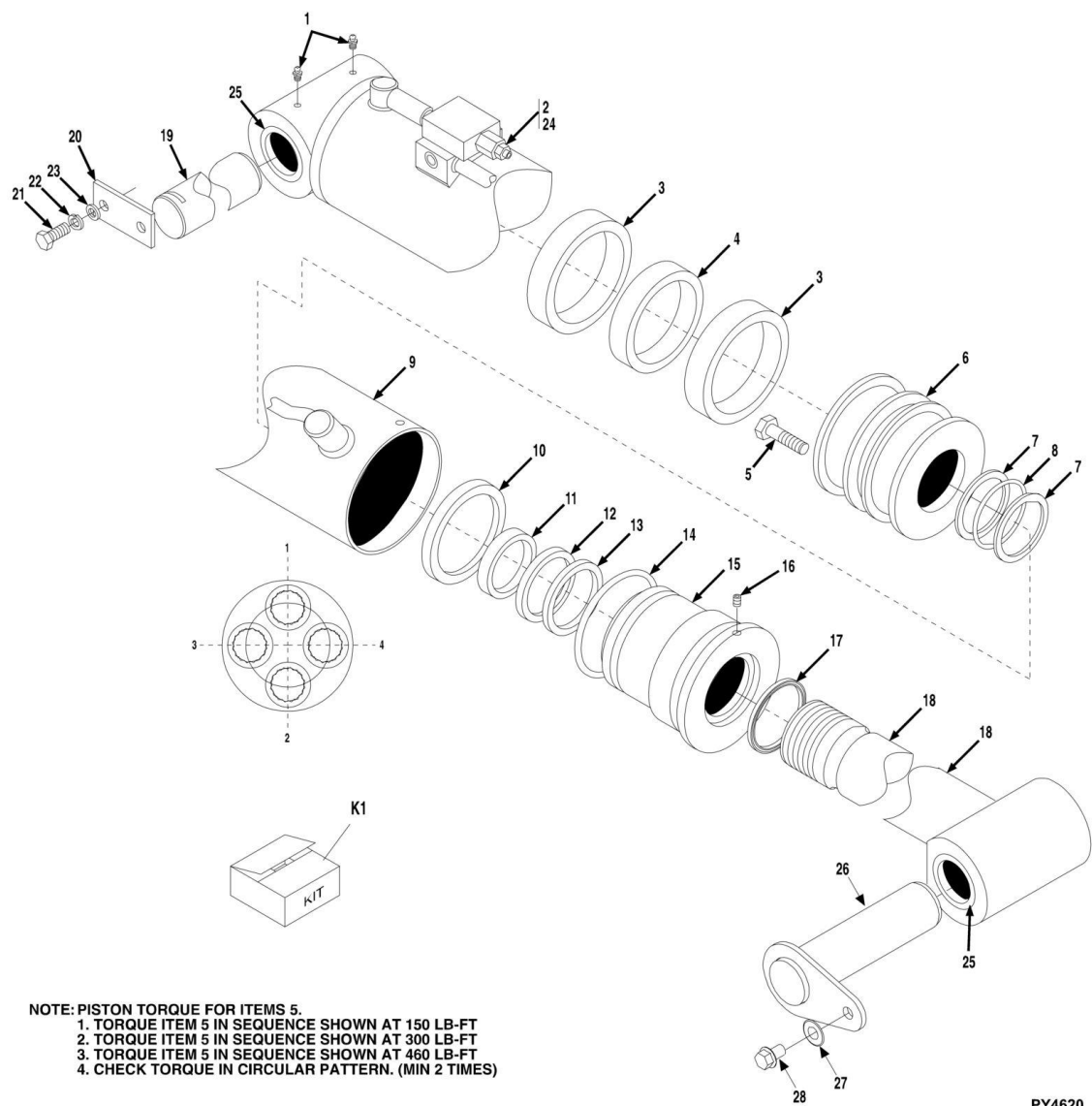
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. LIFT CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160007141)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513039	1	LIFT CYLINDER, (includes items 1 thru 18)	
1	91144128	2	GREASE FITTING	
2	91514248	1	HOLDING VALVE CARTRIDGE, (includes item 25), (torque to 44 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	91514013	4	CAPSCREW, (torque to 460 lb-ft)	
6	91514014	1	PISTON	
7	Kit	2	BACK-UP RING	
8	Kit	1	O-RING	
9	91514009	1	CASE ASSY	
10	Kit	1	SEAL	
11	Kit	1	WEAR RING	
12	Kit	1	STEP SEAL	
13	Kit	1	U-CUP	
14	Kit	1	O-RING	
15	91514004	1	HEAD	
16	91124096	1	SETSCREW	
17	Kit	1	CANNED WIPER	
18	91514019	1	SHAFT ASSY	
19	91513056	1	PIN	
20	91401189	2	KEEPER	
21	88201065	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
22	88551013	4	LOCKWASHER, 1/2	
23	88561111	4	FLAT WASHER, 1/2	
24	91513053	1	PIN	
25	91514251	1	SEAL KIT	
26	91514218	2	BUSHING	
K1	91514020	1	SEAL KIT, (includes items 3, 4, 7, 8, 10 thru 14 & 17)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. LIFT CYLINDER (SN 0160007176 through 0160007822)



PY4620

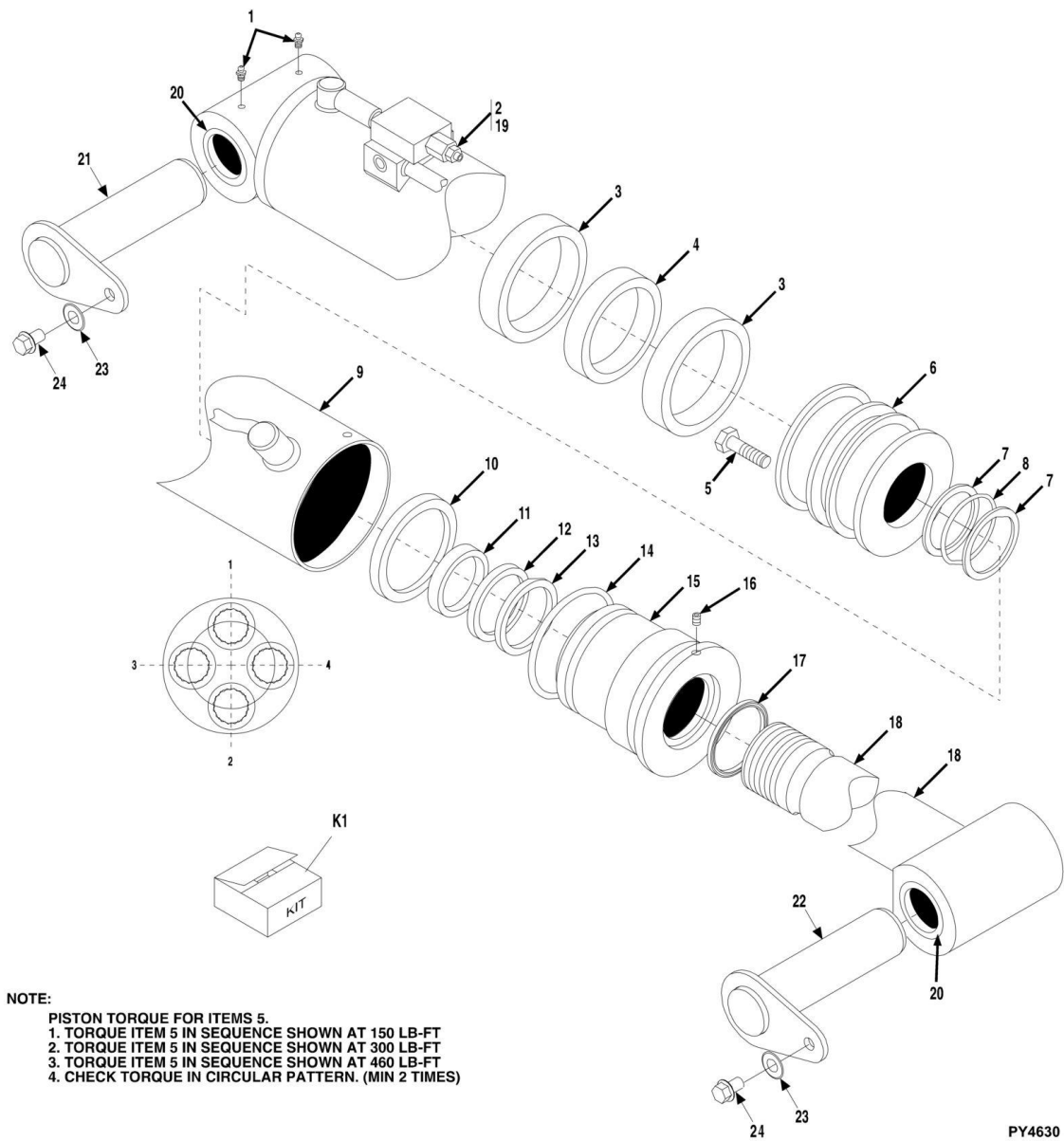
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. LIFT CYLINDER (SN 0160007176 through 0160007822)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513039	1	LIFT CYLINDER, (includes items 1 thru 18)	
1	91144128	2	GREASE FITTING	
2	91514248	1	HOLDING VALVE CARTRIDGE, (includes item 24), (torque to 44 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	91514013	4	CAPSCREW, (torque to 460 lb-ft)	
6	91514014	1	PISTON	
7	Kit	2	BACK-UP RING	
8	Kit	1	O-RING	
9	91514009	1	CASE ASSY	
10	Kit	1	SEAL	
11	Kit	1	WEAR RING	
12	Kit	1	STEP SEAL	
13	Kit	1	U-CUP	
14	Kit	1	O-RING	
15	91514004	1	HEAD	
16	91124096	1	SETSCREW	
17	Kit	1	CANNED WIPER	
18	91514019	1	SHAFT ASSY	
19	91513053	1	PIN	
20	91401189	1	KEEPER	
21	88201065	2	HEX HD CAPSCREW, 1/2-13X1, GR5	
22	88551013	2	LOCKWASHER, 1/2	
23	88561111	2	FLAT WASHER, 1/2	
24	91514251	1	SEAL KIT	
25	91514218	2	BUSHING	
26	91513279	1	PIN	
27	4892000	1	HARD WASHER, 5/8	
28	0682010	1	HEX HD CAPSCREW, 5/8-11X1-1/4, GR8, (torque to 200-215 lb-ft)	
K1	91514020	1	SEAL KIT, (includes items 3, 4, 7, 8, 10 thru 14 & 17)	

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FIGURE 9-3. LIFT CYLINDER (SN 0160008020 through 0160033297, Excluding 0160032951)



NOTE:
PISTON TORQUE FOR ITEMS 5.
1. TORQUE ITEM 5 IN SEQUENCE SHOWN AT 150 LB-FT
2. TORQUE ITEM 5 IN SEQUENCE SHOWN AT 300 LB-FT
3. TORQUE ITEM 5 IN SEQUENCE SHOWN AT 460 LB-FT
4. CHECK TORQUE IN CIRCULAR PATTERN. (MIN 2 TIMES)

PY4630

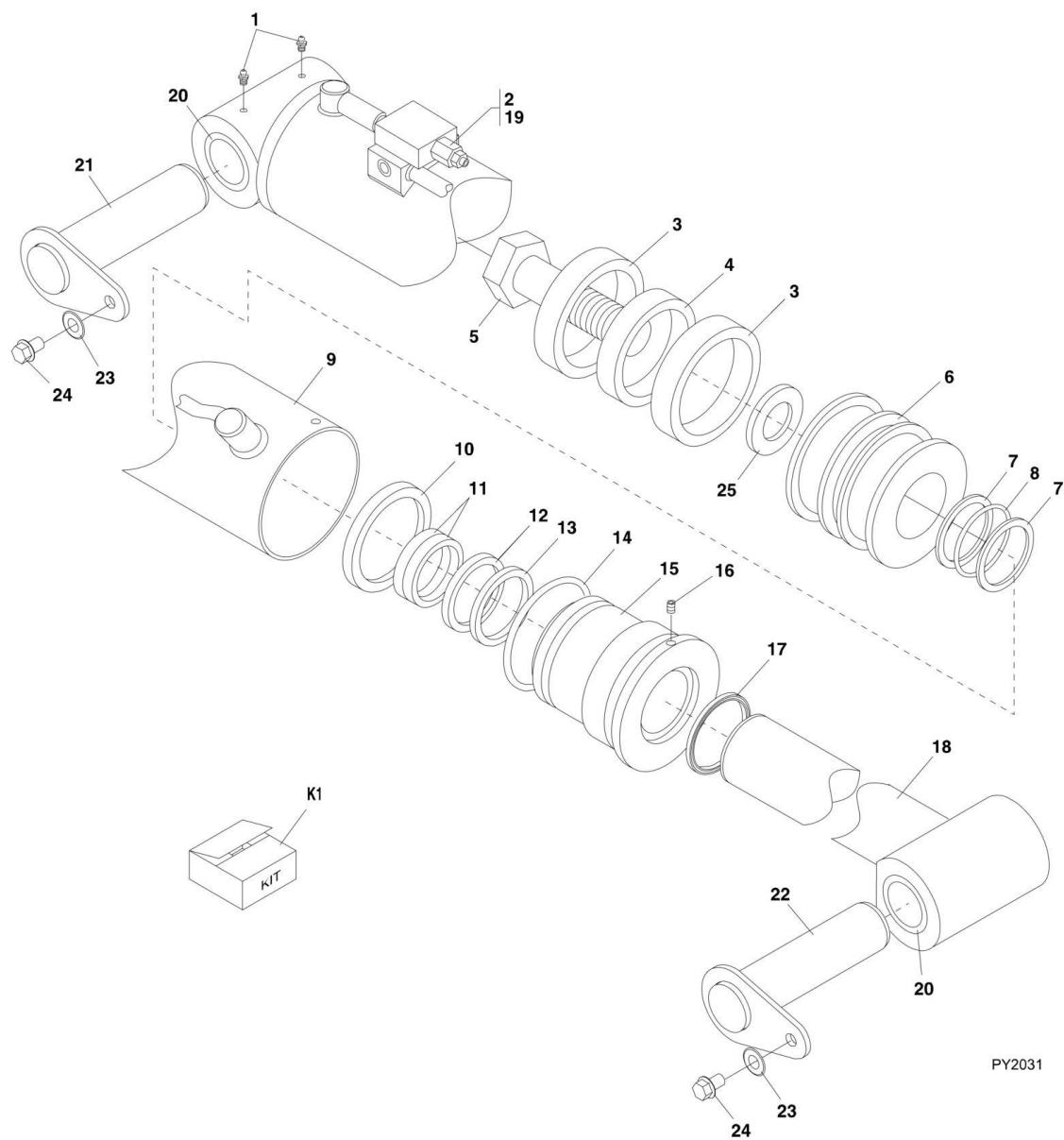
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-3. LIFT CYLINDER (SN 0160008020 through 0160033297, Excluding 0160032951)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513039	1	LIFT CYLINDER, (includes items 1 thru 18)	
1	91144128	2	GREASE FITTING	
2	91514248	1	HOLDING VALVE CARTRIDGE, (includes item 19), (torque to 44 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	91514013	4	CAPSCREW, (torque to 460 lb-ft)	
6	91514014	1	PISTON	
7	Kit	2	BACK-UP RING	
8	Kit	1	O-RING	
9	91514009	1	CASE ASSY	
10	Kit	1	SEAL	
11	Kit	1	WEAR RING	
12	Kit	1	STEP SEAL	
13	Kit	1	U-CUP	
14	Kit	1	O-RING	
15	91514004	1	HEAD	
16	91124096	1	SETSCREW	
17	Kit	1	CANNED WIPER	
18	91514019	1	SHAFT ASSY	
19	91514251	1	SEAL KIT	
20	91514218	2	BUSHING	
21	91513279	1	PIN	
22	1001101706	1	PIN	
23	4892000	2	HARD WASHER, 5/8	
24	0682010	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR8, (torque to 200-215 lb-ft)	
K1	91514020	1	SEAL KIT, (includes items 3, 4, 7, 8, 10 thru 14 & 17)	

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FIGURE 9-4. LIFT CYLINDER (G9-43A SN 016003316 through 0160040675; G10-43A SN 0160038081 through 0160040208; Including 0160032951, Excluding 0160040468)



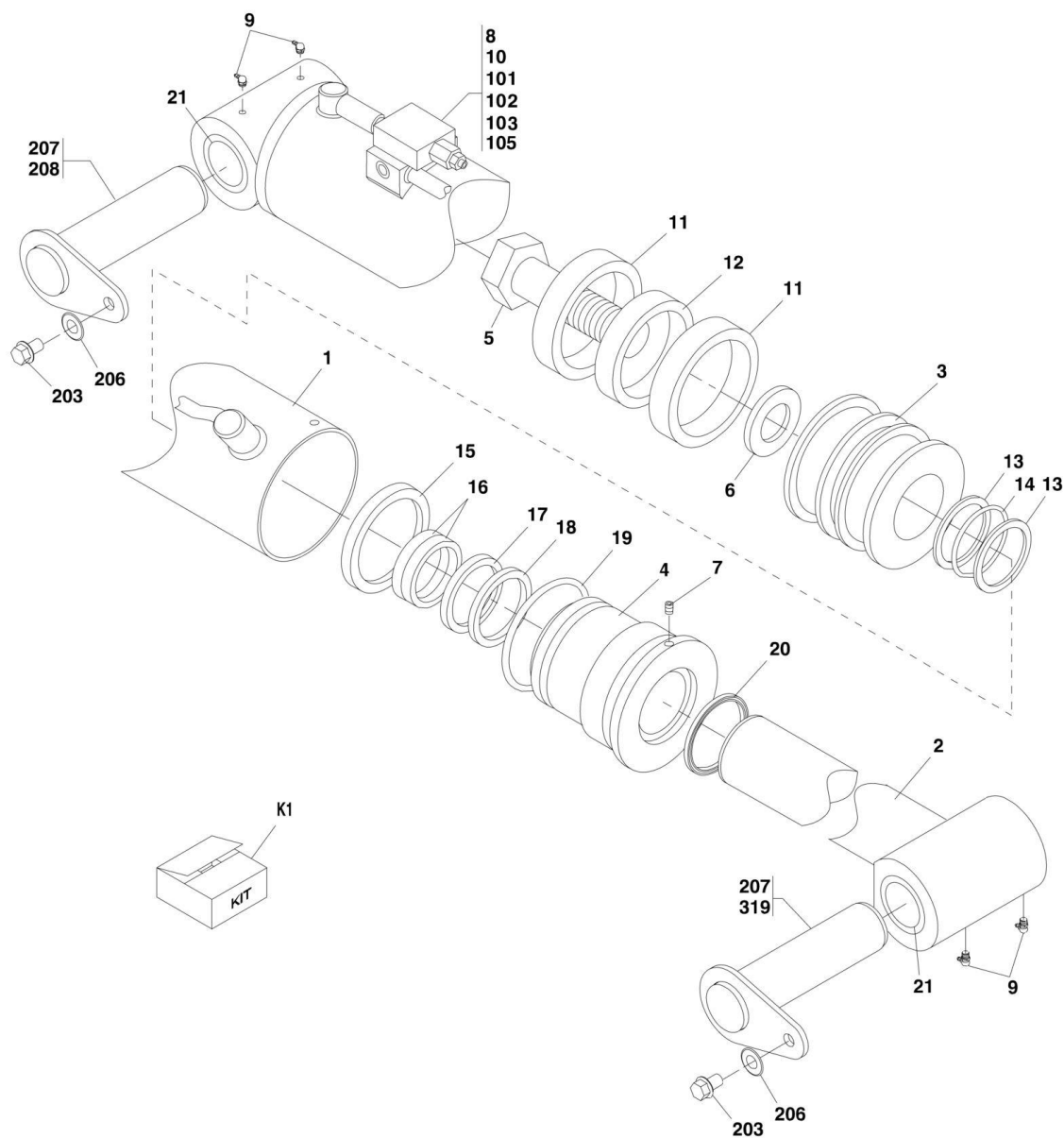
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-4. LIFT CYLINDER (G9-43A SN 016003316 through 0160040675; G10-43A SN 0160038081 through 0160040208; Including 0160032951, Excluding 0160040468)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513274	1	LIFT CYLINDER, (includes items 1 thru 18)	B
1	70022603	2	GREASE FITTING	
2	91514248	1	HOLDING VALVE CARTRIDGE, (includes item 19), (torque to 44 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	70023293	1	CAPSCREW, (torque to 4000 lb-ft)	
6	70022059	1	PISTON ASSY	
7	Kit	2	BACK-UP RING	
8	Kit	1	O-RING	
9	70022057	1	BARREL ASSY, (includes item 20)	
10	Kit	1	PISTON SEAL	
11	Kit	2	WEAR RING	
12	Kit	1	BUFFER SEAL	
13	Kit	1	ROD SEAL	
14	Kit	1	O-RING	
15	70022060	1	ROD BEARING ASSY, (torque to 700 lb-ft)	
16	7029760	1	CAPSCREW	
17	Kit	1	WIPER	
18	70022058	1	ROD ASSY, (includes item 20)	
19	91514251	1	SEAL KIT	
20	70022062	4	BUSHING	
21	91513279	1	PIN	
22	1001101706	1	PIN	
23	4892000	2	HARD WASHER, 5/8	
24	0682010	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR8, (torque to 200-215 lb-ft)	
25	70023292	1	WASHER	
K1	70022061	1	SEAL KIT, (includes items 3, 4, 7, 8, 10 thru 14 & 17)	

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FIGURE 9-5. LIFT CYLINDER (G9-43A SN 0160040675 to Present; G10-43A SN 0160041167 to Present; Including 0160040468)



ART_91514001-9-5

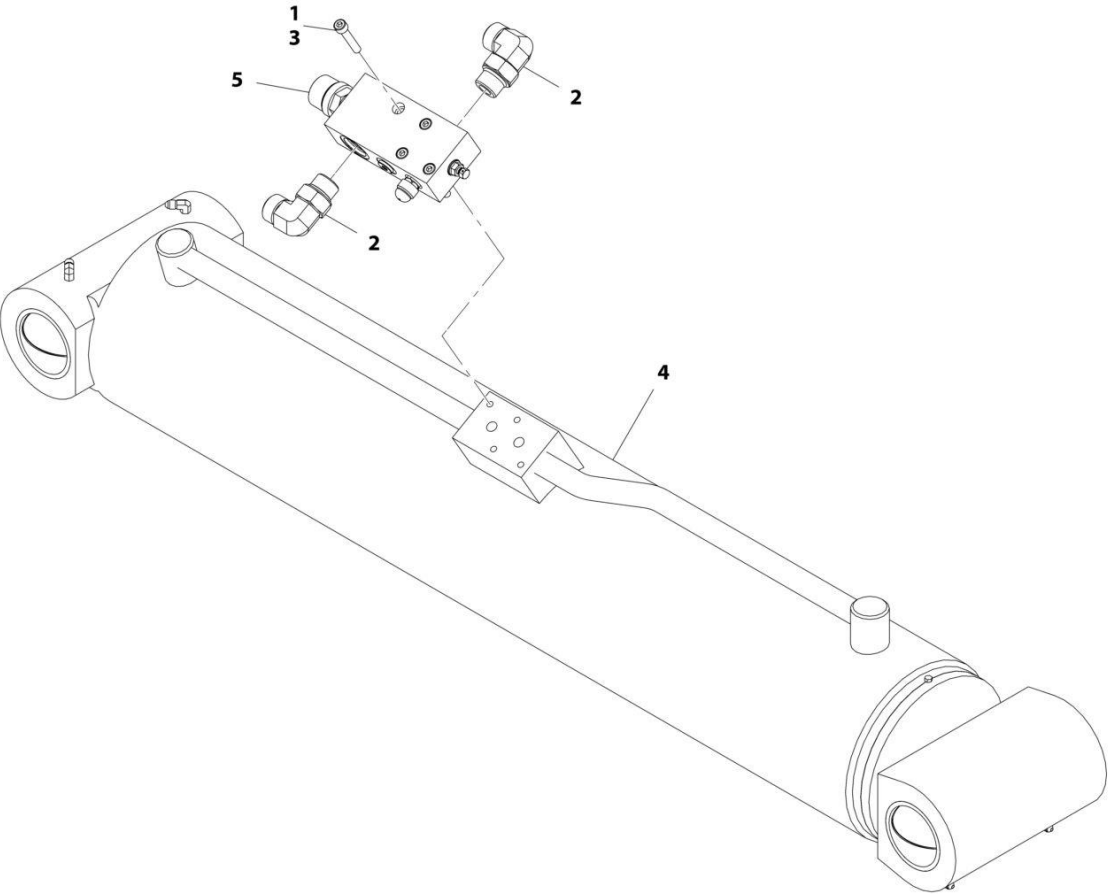
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-5. LIFT CYLINDER (G9-43A SN 0160040675 to Present; G10-43A SN 0160041167 to Present; Including 0160040468)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108380	1	LIFT CYLINDER, (includes items 1 thru 105)	E
	1001103347	Ref	LIFT CYLINDER, (not sold separately, use 1001108380 for replacement or use items 1 thru 21 for service)	
1	70024266	1	BARREL ASSY	
2	70022058	1	ROD ASSY, (includes item 21)	
3	70022059	1	PISTON ASSY	
4	70022060	1	ROD BEARING ASSY	
5	70023293	1	CAPSCREW	
6	70023292	1	WASHER	
7	7029760	1	CAPSCREW	
8	70024267	2	O-RING	
9	91044080	4	GREASE FITTING	
10	70024268	4	CAPSCREW	
11	Kit	2	WEAR RING	
12	Kit	1	PISTON SEAL	
13	Kit	2	BACK-UP RING	
14	Kit	1	O-RING	
15	Kit	1	PISTON SEAL	
16	Kit	2	WEAR RING	
17	Kit	1	BUFFER SEAL	
18	Kit	1	ROD SEAL	
19	Kit	1	O-RING	
20	Kit	1	WIPER	
21	70022062	4	BUSHING	
101	0100011	AR	LOCTITE 242	
102	2131212	2	ELBOW, 90, (includes o-ring)	
103	4031913	4	HEX HD CAPSCREW, M8X45	
105	1001125714	1	HOLDING VALVE CARTRIDGE	
203	0682010	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR8, (hand torque to 200-215 lb-ft)	
206	4892000	2	HARD WASHER, 5/8	
207	14403323	AR	LUBE	
208	91513279	1	PIN	
319	1001101706	1	PIN	
K1	70022061	1	SEAL KIT, (includes items 11 thru 20)	

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FIGURE 9-6. LIFT CYLINDER INSTALLATION (ARCTIC)



ART_1001158763-A

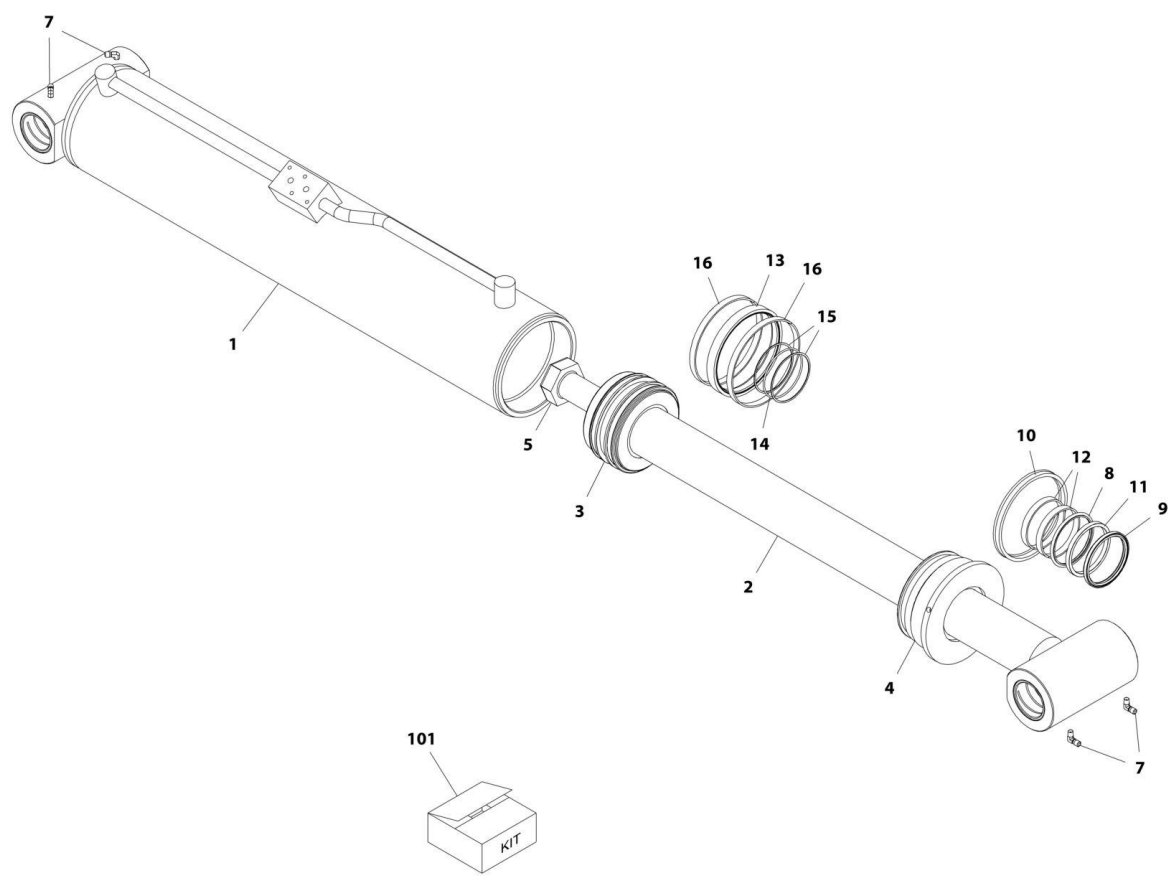
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-6. LIFT CYLINDER INSTALLATION (ARCTIC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158763	1	LIFT CYLINDER INSTALLATION, (ARCTIC)	A
1	0100011	AR	LOCTITE 242	
2	2131212	2	ELBOW, 90 (includes o-ring)	
3	4031913	4	SOCKET HD CAPSCREW, M8X45	
4	1001166829	AR	CYLINDER, LIFT, (See Separate Breakdown in this Section)	
5	1001125714	1	HOLDING VALVE CARTRIDGE	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-7. LIFT CYLINDER (ARCTIC)



ART_1001166829-A

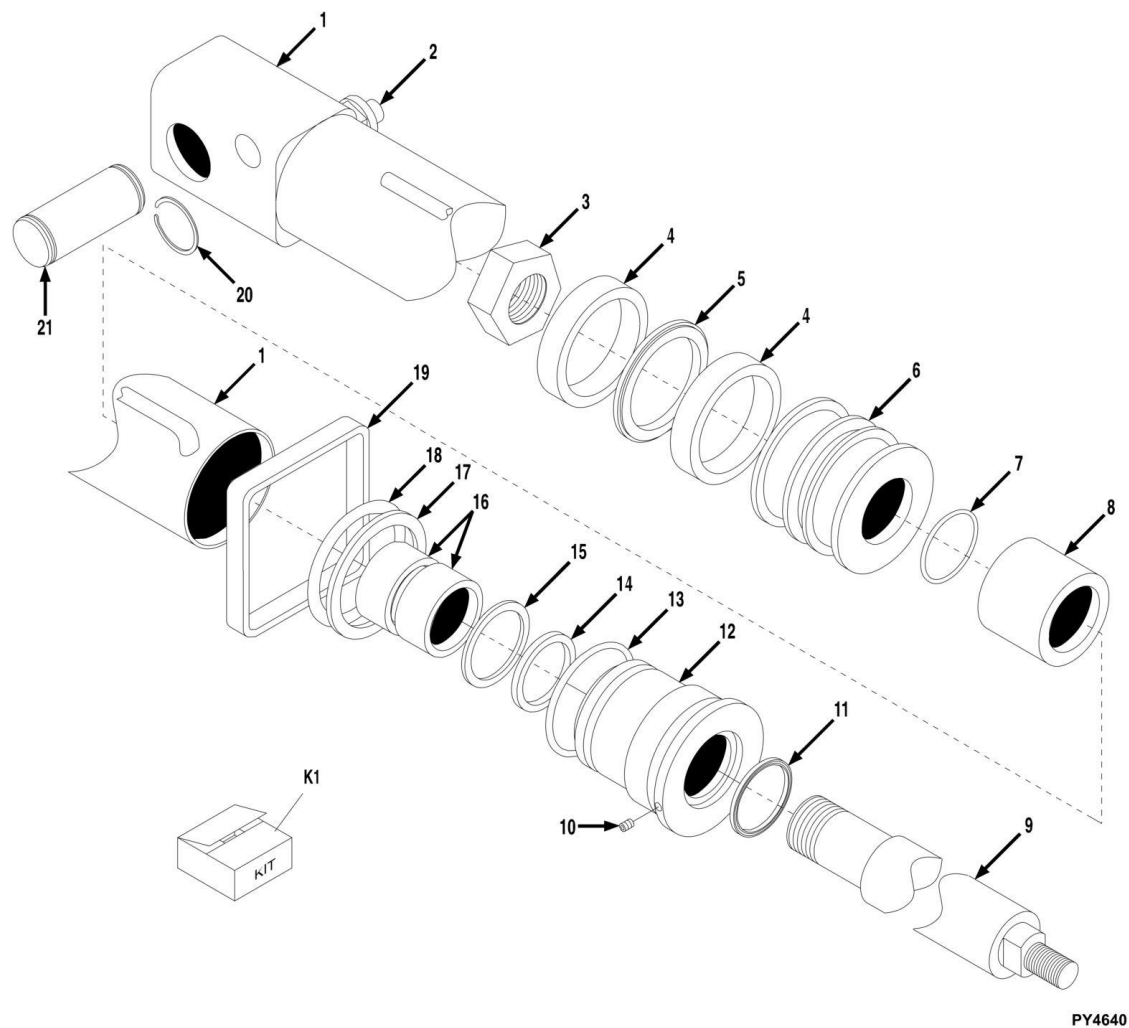
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-7. LIFT CYLINDER (ARCTIC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166829	1	LIFT CYLINDER, (ARCTIC)	A
1	70026012	1	BARREL ASSEMBLY	
2	70022058	1	ROD ASSEMBLY	
3	70022059	1	PISTON ASSEMBLY	
4	70026013	1	ROD BEARING ASSEMBLY	
5	70023293	1	CAP SCREW	
7	70026014	4	GREASE FITTING	
8	Kit	1	BUFFER SEAL	
9	Kit	1	CANNED WIPER	
10	Kit	1	PISTON SEAL	
11	Kit	1	ROD SEAL	
12	Kit	2	WEAR RING	
13	Kit	1	PISTON SEAL	
14	Kit	1	O-RING	
15	Kit	2	BACK-UP RING	
16	Kit	2	WEAR RING	
101	70026015	1	SEAL KIT, (includes items 8 thru 16)	

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FIGURE 9-8. CROWD CYLINDER - IOWA (Prior to SN 0160033222)



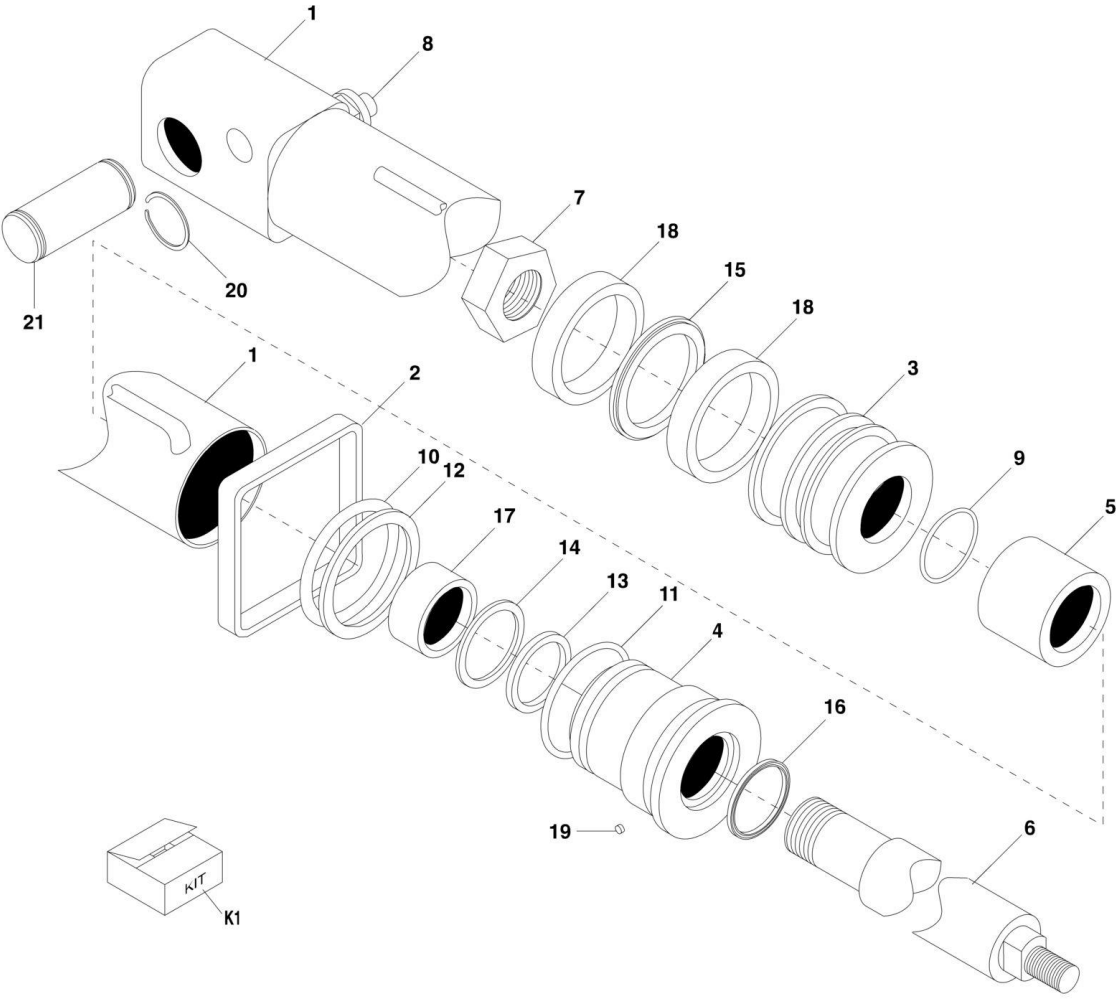
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-8. CROWD CYLINDER - IOWA (Prior to SN 0160033222)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513002	1	CROWD CYLINDER, (includes items 1 thru 19)	C
1	91514025	1	CASE ASSY	
2	91514248	1	HOLDING VALVE CARTRIDGE, (torque to 44 lb-ft)	
2	91514251	1	SEAL KIT	
3	91034267	1	LOCK NUT, (torque to 1000 lb-ft)	
4	Kit	2	WEAR RING	
5	Kit	1	PISTON SEAL	
6	91514021	1	PISTON	
7	Kit	1	O-RING	
8	91514034	1	SPACER	
9	91514024	1	SHAFT	
10	91514031	1	SET SCREW, (torque to 11 lb-ft)	
11	Kit	1	CANNED WIPER	
12	91514026	1	HEAD, (torque to 100 lb-ft)	
13	Kit	1	O-RING	
14	Kit	1	U-CUP	
15	Kit	1	STEP SEAL	
16	Kit	1	WEAR RING	
17	Kit	1	BACK-UP RING	
18	Kit	1	O-RING	
19	91514035	1	WEAR BAND	
20	90028935	2	RETAINING RING (SN 0193001 through 0193007, SN 0160000008 through 0160005550)	
20	88581149	2	RETAINING RING (SN 0160005576 to Present)	
21	91403226	1	CYLINDER PIN (SN 0193001 through 0193007, SN 0160000008 through 0160005550)	
21	91141124	1	CYLINDER PIN (SN 0160005576 to Present)	
K1	91514036	1	SEAL KIT, (includes items 4, 5, 7, 11 & 13 thru 18)	

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FIGURE 9-9. CROWD CYLINDER (SN 0160033222 to Present)



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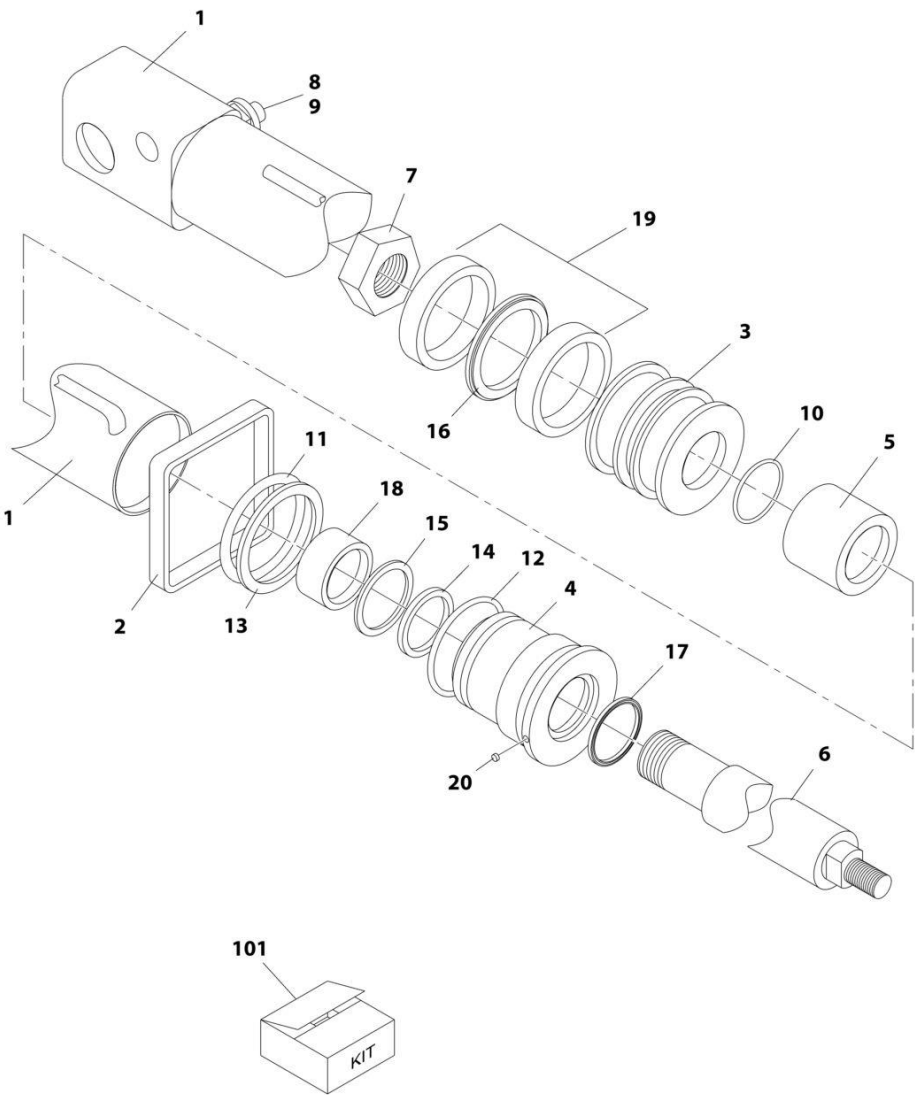
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. CROWD CYLINDER (SN 0160033222 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513276	1	CROWD CYLINDER, (includes items 1 thru 19)	B
1	70022852	1	CASE ASSY	
2	70022853	1	WEAR WASHER	
3	70022854	1	PISTON	
4	70022855	2	HEAD GLAND, (torque to 300-400 lb-ft)	
5	70022856	1	ROD SPACER	
6	70022857	1	SHAFT ASSY	
7	8035865	1	LOCK NUT, (torque to 745-825 lb-ft)	
8	91514248	1	HOLDING VALVE, (torque to 105-115 lb-ft)	
8	91514251	1	SEAL KIT	
9	Kit	1	O-RING	
10	Kit	1	O-RING	
11	Kit	1	O-RING	
12	Kit	1	BACK-UP RING	
13	Kit	1	U-CUP	
14	Kit	1	BUFFER SEAL	
15	Kit	1	T-SEAL	
16	Kit	1	WIPER	
17	Kit	1	WEARBAND	
18	Kit	1	WEARBAND	
19	Kit	1	LOCKING INSERT	
20	88581149	2	RETAINING RING	
21	91141124	1	CYLINDER PIN	
K1	70022858	1	SEAL KIT, (includes items 9 thru 19)	

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FIGURE 9-10. CROWD CYLINDER (ARCTIC)



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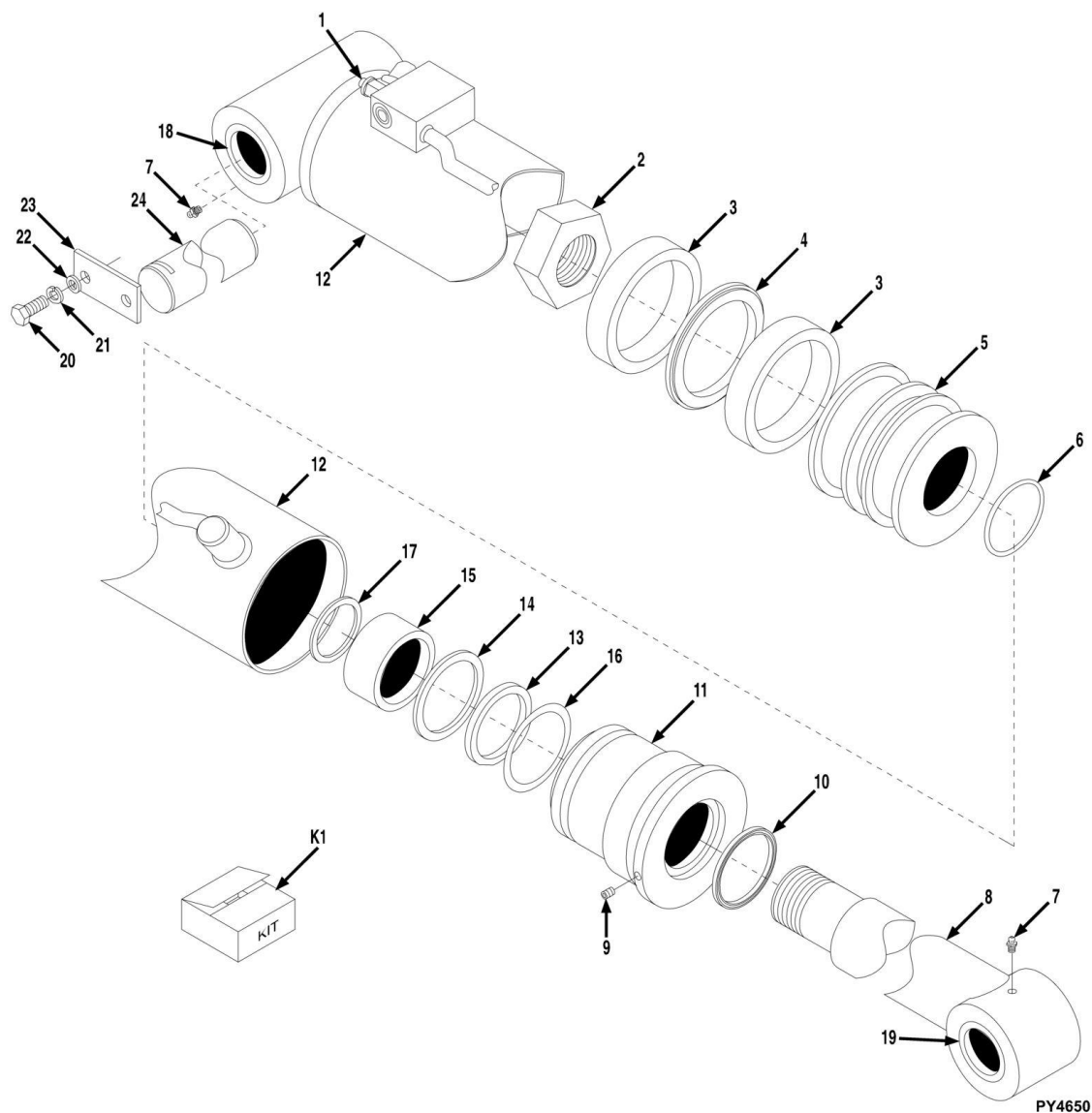
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-10. CROWD CYLINDER (ARCTIC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158766	1	CROWD CYLINDER, (ARCTIC)	A
1	70022852	1	CASE ASSEMBLY	
2	70022853	1	WEAR WASHER	
3	70022854	1	PISTON	
4	70022855	1	HEAD GLAND	
5	70022856	1	ROD SPACER	
6	70022857	1	SHAFT ASSEMBLY	
7	8035865	1	LOCKNUT	
8	4641312	1	HOLDING VALVE	
9	91514251	1	HOLDING VALVE SEAL	
10	Kit	1	O-RING	
11	Kit	1	O-RING	
12	Kit	1	O-RING	
13	Kit	1	BACKUP RING	
14	Kit	1	DEEP Z-SEAL	
15	Kit	1	BUFFER SEAL	
16	Kit	1	T-SEAL	
17	Kit	1	WIPER	
18	Kit	1	WEAR BAND	
19	Kit	2	WEAR BAND	
20	Kit	2	LOCKING INSERT	
101	70025968	1	SEAL KIT, (includes items 10 thru 20)	

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FIGURE 9-11. TILT CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160007141)



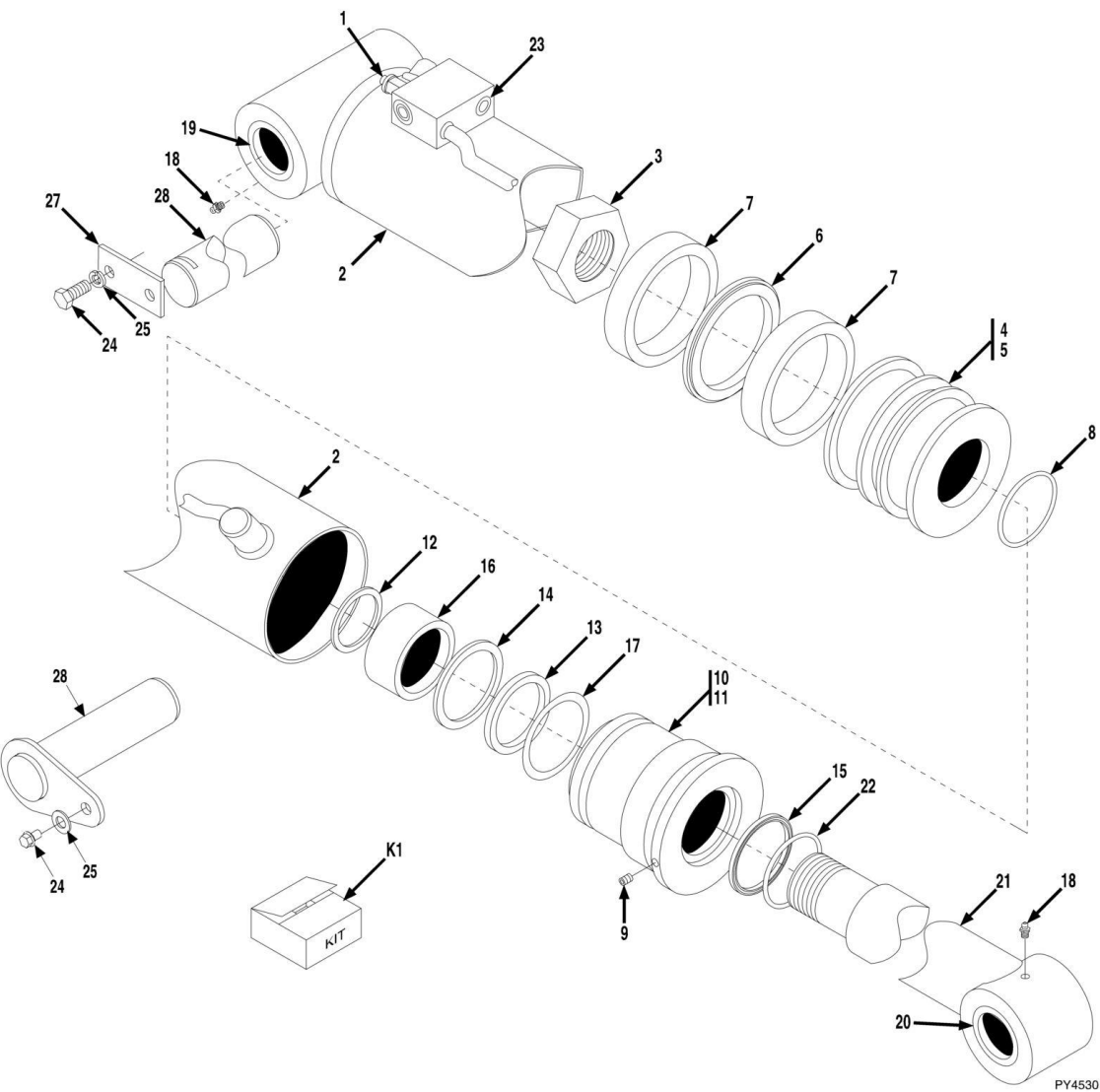
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-11. TILT CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160007141)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513027	1	TILT CYLINDER, (includes items 1 thru 19)	
1	1001109225	1	VALVE, (torque to 45-50 lb-ft)	
1	91404382	1	SEAL KIT	
2	91034153	1	LOCK NUT, (torque to 1250-1300 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	91514037	1	PISTON	
6	Kit	1	O-RING	
7	91144128	3	GREASE FITTING	
8	91514040	1	SHAFT ASSY	
9	Kit	1	SET SCREW, (torque to 11 lb-ft)	
10	Kit	1	CANNED WIPER	
11	91514042	1	HEAD, (torque to 200 lb-ft)	
12	91514041	1	CASE ASSY	
13	Kit	1	U-CUP	
14	Kit	1	STEP SEAL	
15	Kit	1	WEAR RING	
16	Kit	1	O-RING	
17	Kit	1	SEAL	
18	91404286	2	BUSHING, (manganese phosphate coating)	
19	91404287	1	BUSHING, (manganese phosphate coating)	
20	88201064	2	HEX HD CAPSCREW, 1/2-13X7/8, GR5 (Prior to SN 0160000915)	
20	88201065	2	HEX HD CAPSCREW, 1/2-13X1, GR5 (SN 0160000915 to Present)	
21	88551013	2	LOCKWASHER, 1/2	
22	88561111	2	WASHER, 1/2 (Prior to SN 0160000915)	
23	91401189	1	KEEPER	
24	91513030	1	PIN	
K1	91514050	1	SEAL KIT, (includes items 3, 4, 6, 9, 10 & 13 thru 17)	

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FIGURE 9-12. TILT CYLINDER (SN 0160007142 through 0160033297)



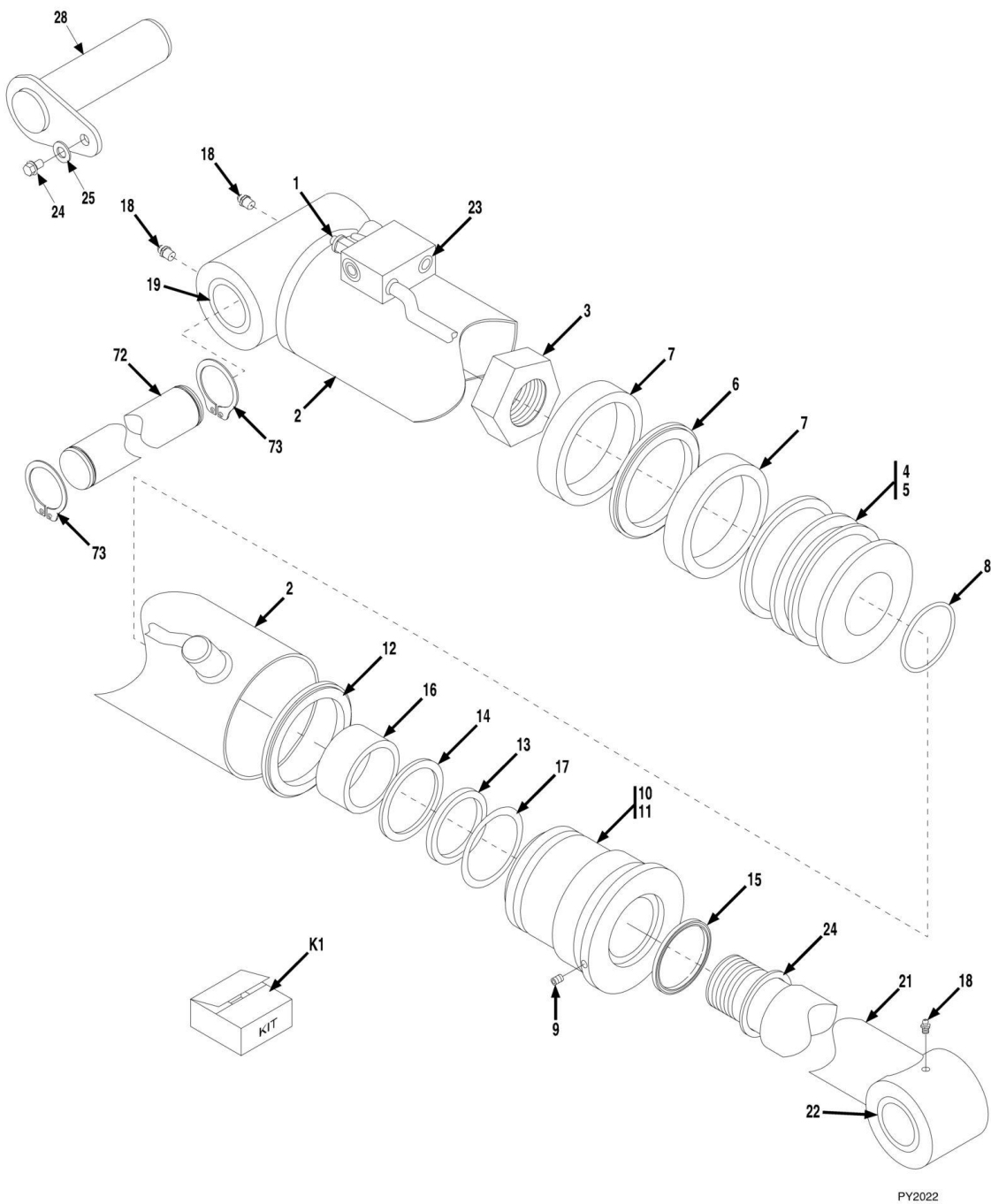
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-12. TILT CYLINDER (SN 0160007142 through 0160033297)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513225		TILT CYLINDER, (includes items 1 thru 23)	
1	1001109225	1	CARTRIDGE VALVE, (torque to 44 lb-ft)	
1	91404382	1	SEAL KIT	
2	N.S.S.	1	CASE ASSY, (includes item 19)	
3	7026960	1	LOCKNUT, (torque to 2025-2075 lb-ft)	
4	7026952	1	PISTON ASSY, (includes items 5 thru 8)	
5	7026962	1	PISTON	
6	Kit	1	PISTON SEAL	
7	Kit	2	WEAR RING	
8	Kit	1	O-RING	
9	91124096	1	SET SCREW	
10	91514276	1	HEAD ASSY, (includes items 11 thru 17)	
11	91514277	1	HEAD, (torque to 550-600 lb-ft)	
12	Kit	1	STEP SEAL	
13	Kit	1	U-CUP	
14	Kit	1	U-CUP	
15	91514047	1	CANNED WIPER	
16	Kit	2	WEAR RING	
17	Kit	1	O-RING	
18	91144128	3	GREASE FITTING	
19	91404286	2	BUSHING, (manganese phosphate coating)	
20	91404287	1	BUSHING, (manganese phosphate coating)	
21	91514278	1	SHAFT ASSY, (includes item 20)	
22	91514279	1	O-RING	
23	91514280	2	PLUG, (torque to 10-15 lb-ft)	
24	88201065	2	HEX HD CAPSCREW, 1/2-13X1, GR5 (Prior to SN 0160008020)	
24	0681810	1	HEX HD CAPSCREW, 1/2-13X1.25, GR8, (hand torque to 100-110 lb-ft) (SN 0160008020 to Present)	
25	88551013	2	LOCKWASHER, 1/2 (Prior to SN 0160008020)	
25	4891800	1	HARDENED WASHER, 1/2 (SN 0160008020 to Present)	
27	91401189	1	KEEPER (Prior to SN 0160008020)	
28	91513030	1	PIN (Prior to SN 0160008020)	
28	91513283	1	PIN (SN 0160008020 to Present)	
K1	91514281	1	SEAL KIT, (includes items 6, 7, 8, 12, 13, 14, 16 & 17)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. TILT CYLINDER (SN 0160033316 to Present)



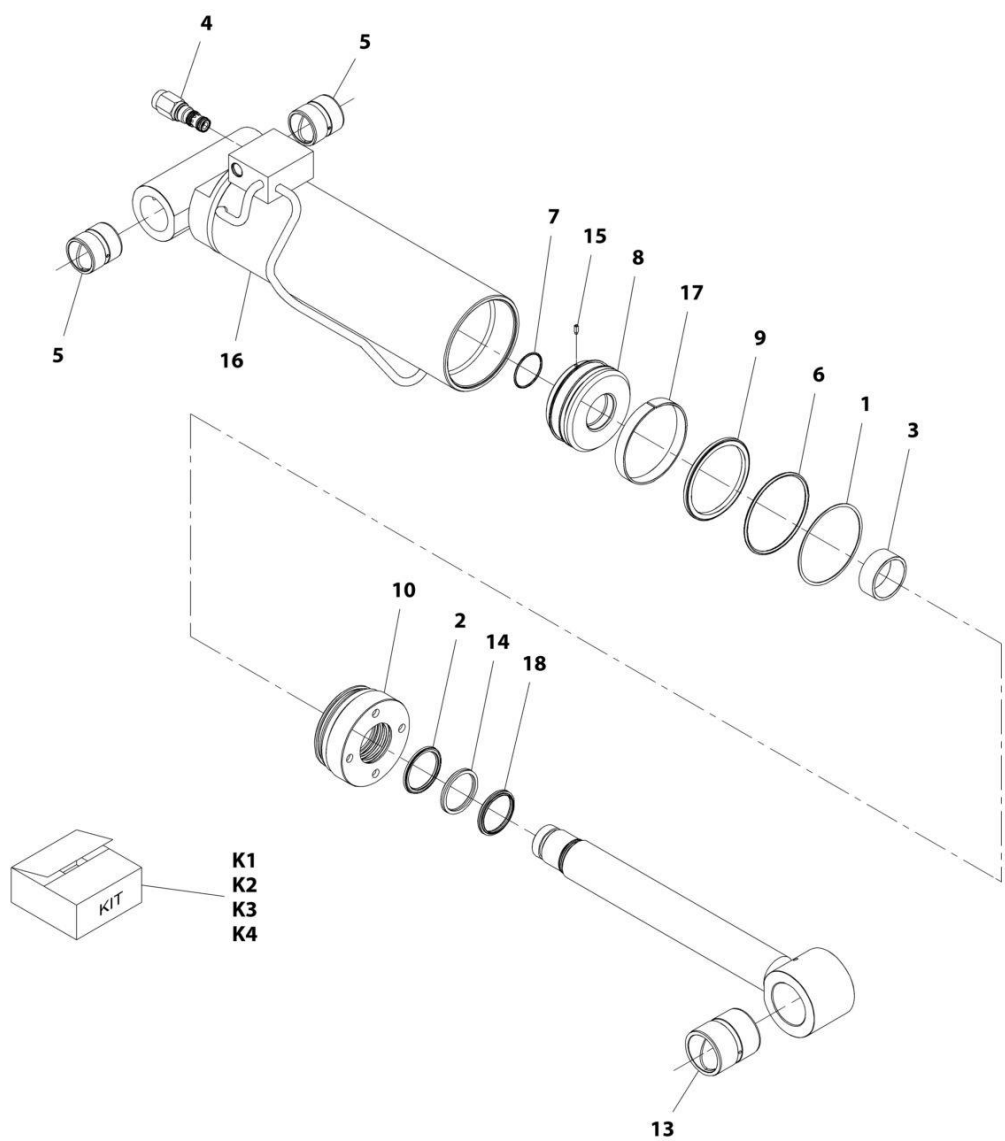
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. TILT CYLINDER (SN 0160033316 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513275	NLA	TILT CYLINDER, (no longer available, use items 1 through 23 for service or 1001140445 for replacement)	B
1	1001109225	1	RELIEF VALVE, (torque to 44 lb-ft)	
1	91404382	1	SEAL KIT	
2	70022063	1	BARREL ASSY, (includes item 19)	
3	10727280	1	LOCKNUT, (torque to 2025-2075 lb-ft)	
4	70022065	1	PISTON ASSY, (includes items 5 thru 8)	
5	N.S.S.	1	PISTON	
6	Kit	1	PISTON SEAL	
7	Kit	2	WEAR RING	
8	Kit	1	O-RING	
9	7029760	1	CAPSCREW	
10	70022056	1	ROD BEARING ASSY, (includes items 11 thru 17)	
11	N.S.S.	1	ROD BEARING	
12	Kit	1	PISTON SEAL	
13	Kit	1	ROD SEAL	
14	Kit	1	BUFFER SEAL	
15	N.S.S.	1	WIPER	
16	Kit	2	WEAR RING	
17	Kit	1	O-RING	
18	91044080	3	GREASE FITTING	
19	7029871	2	BUSHING, (manganese phosphate coating)	
20	70022066	1	PLUG, (torque to 10-15 lb-ft)	
21	70022064	1	ROD ASSY	
22	7029872	1	BUSHING, (manganese phosphate coating)	
23	70022067	1	PLUG, (torque to 10-15 lb-ft)	
24	0681810	1	HEX HD CAPSCREW, 1/2-13X1.25, GR8, (hand torque to 100-110 lb-ft) (SN 0160008020 through 0160037670)	
25	4891800	1	HARDENED WASHER, 1/2 (SN 0160008020 through 0160037670)	
28	91513283	1	PIN (SN 0160008020 through 0160037670)	
72	1001115739	1	PIN (SN 0160037671 to Present)	
73	88581149	2	RETAINING RING (SN 0160037671 to Present)	
118	8307904	AR	WASHER, SHIM, (not shown)	
119	8310093	AR	WASHER, SHIM, (not shown)	
120	8307918	AR	WASHER, SHIM, (not shown)	
K1	70024013	1	SEAL KIT, (includes items 6, 7, 8, 12, 13, 14, 16 & 17)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. TILT CYLINDER



ART_1001140445-A

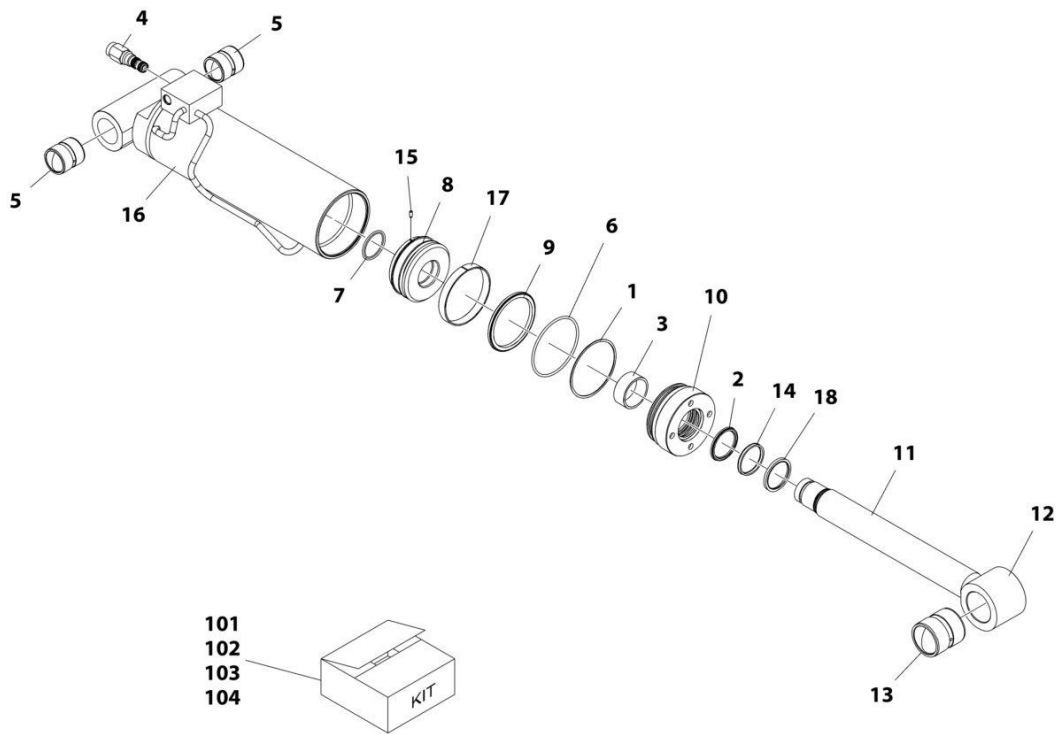
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001140445	1	TILT CYLINDER, (includes items 1 thru 18)	A
1	Kit	1	BACK-UP RING	
2	Kit	1	BUFFER RING	
3	Kit	1	BUSHING	
4	70025930	1	COUNTERBALANCE VALVE	
5	70025931	2	HEAD END BUSHING	
6	Kit	1	O-RING	
7	Kit	1	O-RING	
8	Kit	1	PISTON	
9	Kit	1	PISTON SEAL	
10	Kit	1	RETAINER	
13	70025924	1	ROD END BUSHING	
14	Kit	1	ROD SEAL	
15	Kit	1	SET SCREW	
16	70025932	1	BARREL	
17	Kit	1	WEAR RING	
18	Kit	1	WIPER	
K1	70025920	1	SERVICE KIT, (includes items 1,2,3,6,7,9,14,17,18)	
K2	70025933	1	ROD SERVICE KIT, (includes items 11,12,13)	
K3	70025921	1	RETAINER SUB ASSY, (includes items 1,2,3,6,10,14,18)	
K4	70025922	1	PISTON SUB ASSY, (includes items 8,9,15,17)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. TILT CYLINDER (ARCTIC)



ART_1001174530-A

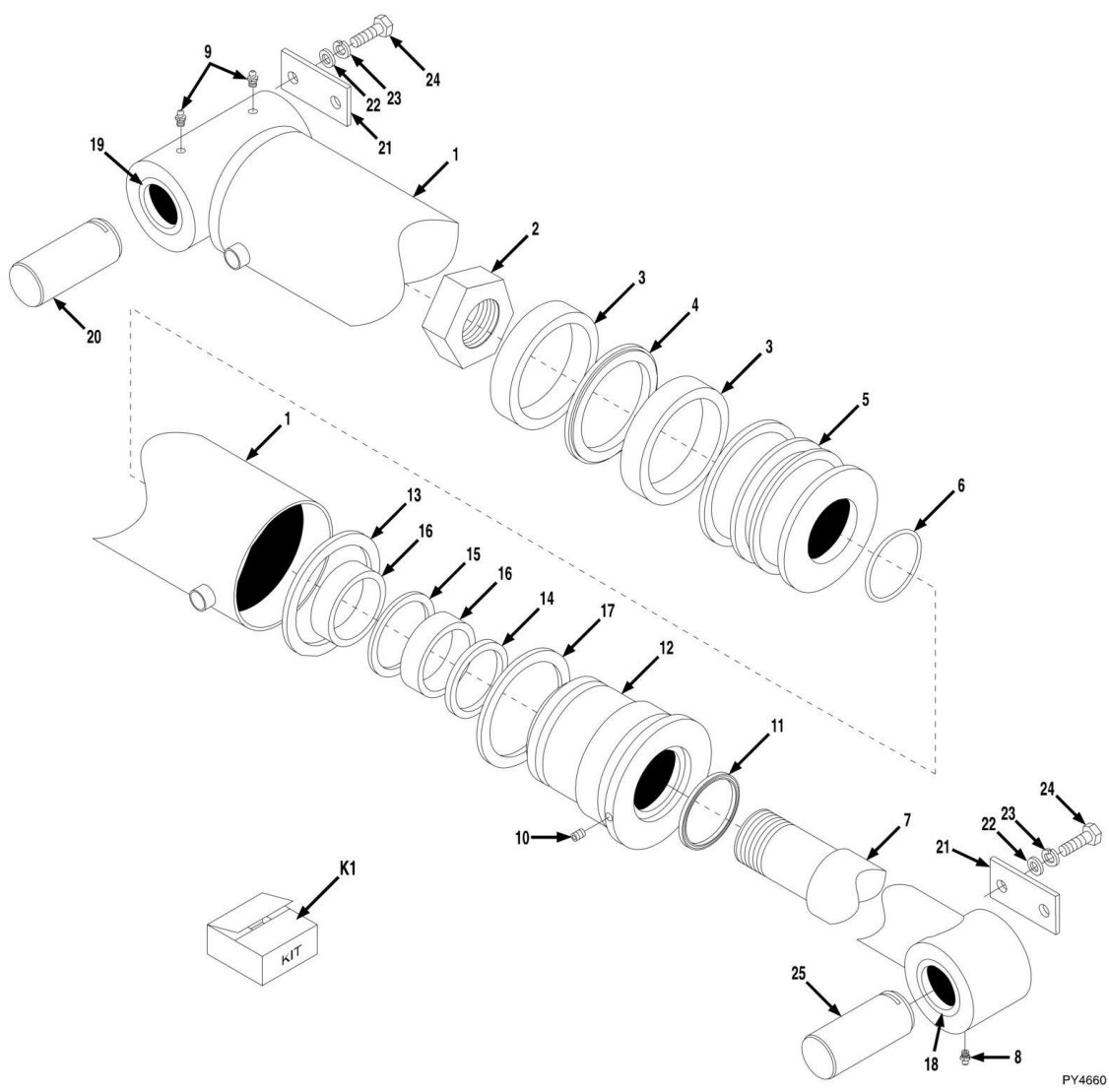
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. TILT CYLINDER (ARCTIC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174530	1	TILT CYLINDER, (ARCTIC)	A
1	Kit	1	BACK-UP RING	
2	Kit	1	BUFFER RING	
3	Kit	1	BUSHING	
4	70025930	1	C/BALANCE VALVE	
5	70025931	2	HEAD END BUSHING	
6	Kit	1	O-RING	
7	Kit	1	O-RING	
8	Kit	1	PISTON	
9	Kit	1	PISTON SEAL	
10	Kit	1	RETAINER	
11	Kit	1	ROD	
12	Kit	1	ROD END	
13	Kit	1	ROD END BUSHING	
14	Kit	1	ROD SEAL	
15	Kit	1	SET SCREW	
16	70025932	1	BARREL	
17	Kit	1	WEAR RING	
18	Kit	1	WIPER	
101	70025934	1	SERVICE KIT, (includes items 1,2,3,6,7,9,14,17,18)	
102	70025933	1	ROD SERVICE KIT, (includes items 11,12,13)	
103	70025935	1	RETAINER SUB ASSY, (includes items 1,2,3,6,10,14,18)	
104	70025922	1	PISTON SUB ASSY, (includes items 8,9,15,17)	

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FIGURE 9-16. COMPENSATING CYLINDER (SN 0193001 through 0193007, SN 016000008 through 0160007141)



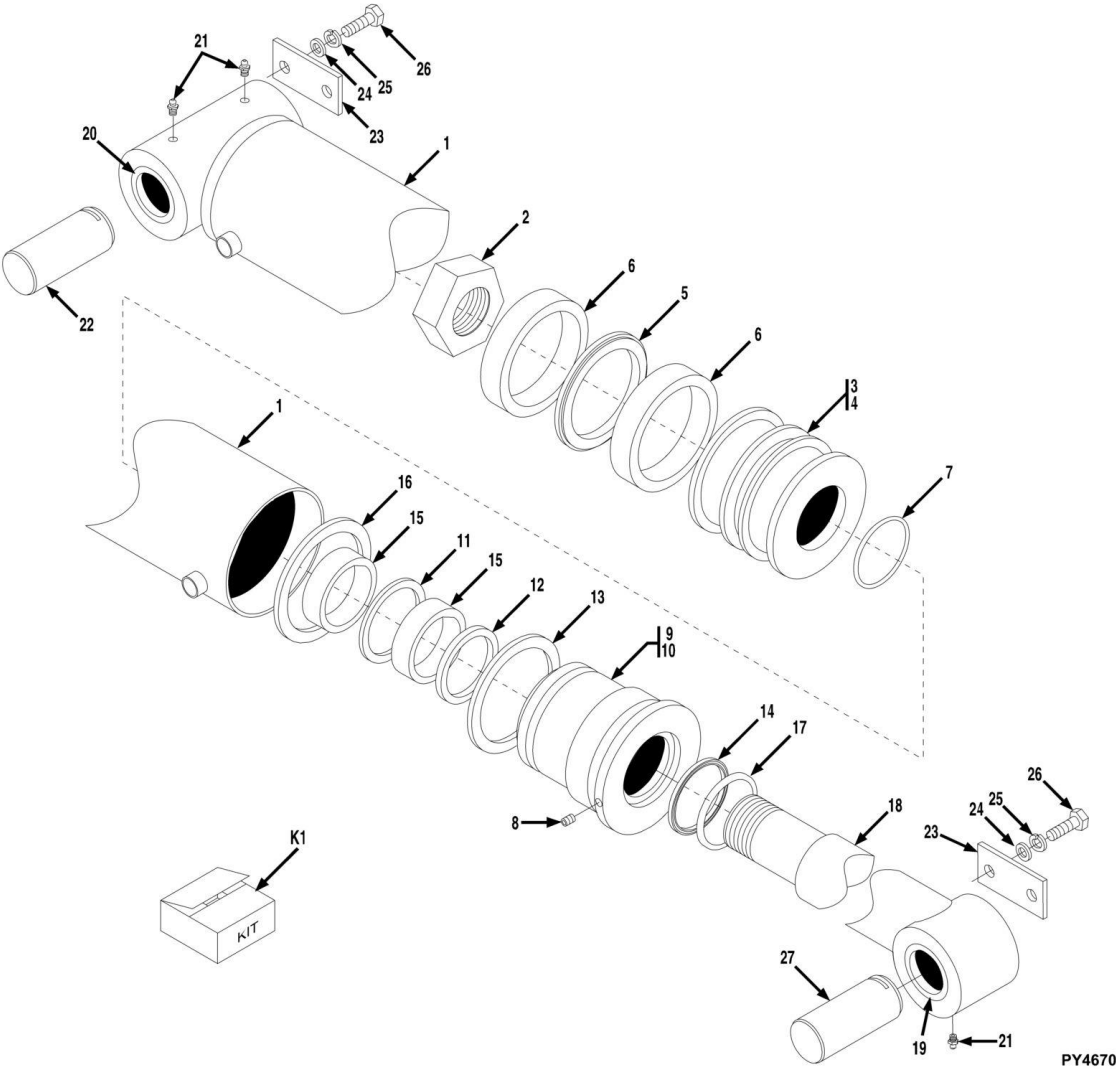
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. COMPENSATING CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160007141)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513040	1	COMPENSATING CYLINDER, (includes items 1 thru 19)	
1	91514052	1	CASE ASSY	
2	91034153	1	LOCK NUT, (torque to 1250-1300 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	91514037	1	PISTON	
6	Kit	1	O-RING	
7	91514051	1	SHAFT ASSY	
8	91144128	1	GREASE FITTING	
9	91404203	2	GREASE FITTING	
10	Kit	1	SET SCREW	
11	Kit	1	CANNED WIPER	
12	91514042	1	HEAD, (torque to 200 lb-ft)	
13	Kit	1	O-RING	
14	Kit	1	U-CUP SEAL	
15	Kit	1	STEP SEAL	
16	Kit	2	WEAR RING	
17	Kit	1	U-CUP	
18	91404287	1	BUSHING, (manganese phosphate coating)	
19	91404286	2	BUSHING, (manganese phosphate coating)	
20	91513054	1	PIN	
21	91401189	2	KEEPER	
22	88561111	4	WASHER, 1/2	
23	88551013	4	LOCKWASHER, 1/2	
24	88201065	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
25	91403026	1	PIN	
K1	91514050	1	SEAL KIT, (includes items 3, 4, 6, 10, 11 & 13 thru 17)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-17. COMPENSATING CYLINDER (SN 0160007176 through 0160007822)



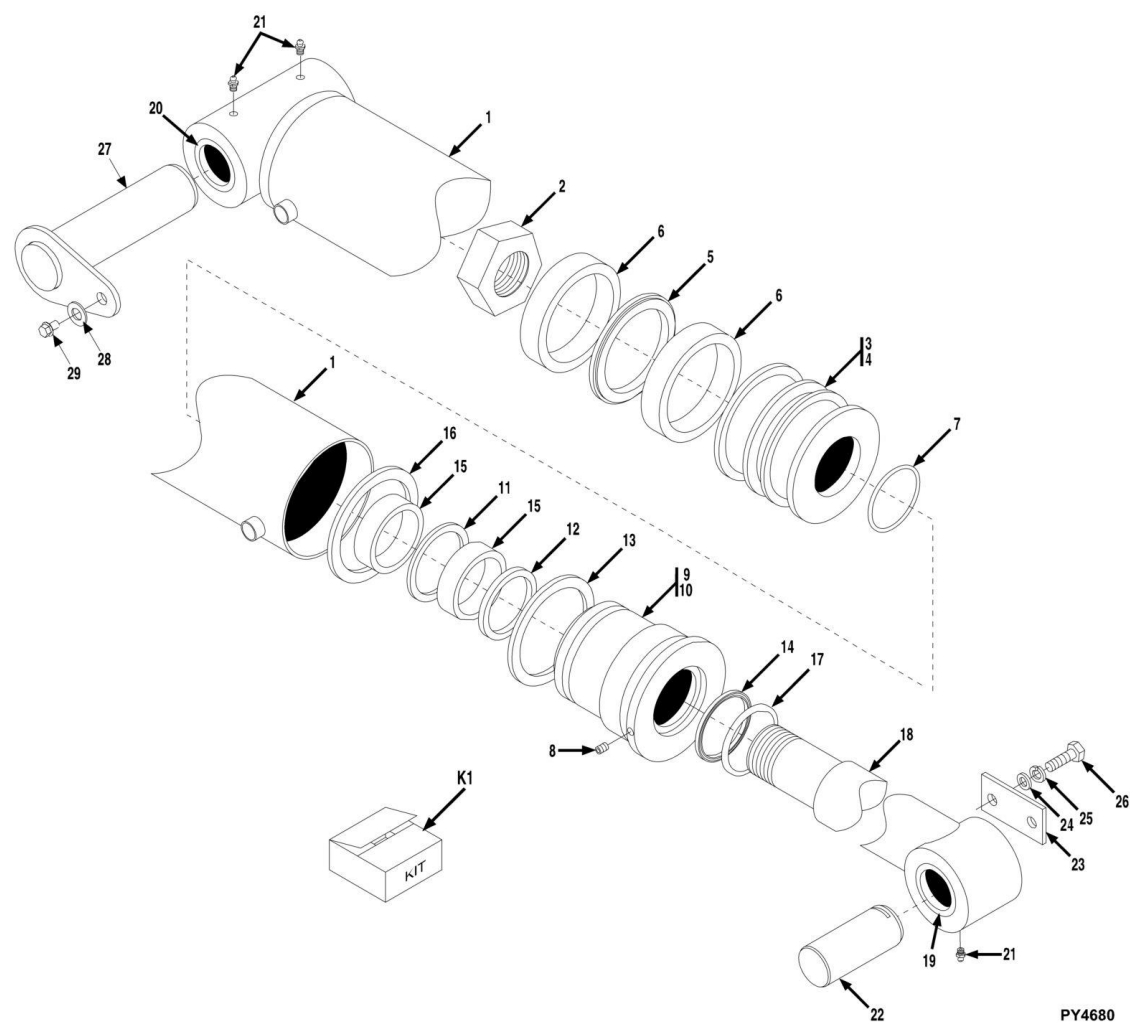
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-17. COMPENSATING CYLINDER (SN 0160007176 through 0160007822)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513226	1	COMPENSATING CYLINDER, (includes items 1 thru 21)	
1	91514282	1	CASE ASSY, (includes item 20)	
2	91034153	1	LOCKNUT, (torque to 2025-2075 lb-ft)	
3	91514283	1	PISTON ASSY, (includes items 4 thru 7)	
4	91514284	1	PISTON	
5	Kit	1	PISTON SEAL	
6	Kit	2	WEAR RING	
7	Kit	1	O-RING	
8	91124096	1	SET SCREW	
9	91514276	1	HEAD ASSY, (includes items 10 thru 16)	
10	91514277	1	HEAD, (torque to 550-600 lb-ft)	
11	Kit	1	STEP SEAL	
12	Kit	1	U-CUP	
13	Kit	1	U-CUP	
14	Kit	1	CANNED WIPER	
15	Kit	2	WEAR RING	
16	Kit	1	O-RING	
17	7026474	1	O-RING	
18	70020552	1	SHAFT ASSY, (includes item 19)	
19	91404287	1	BUSHING, (manganese phosphate coating)	
20	91404286	2	BUSHING, (manganese phosphate coating)	
21	91144128	3	GREASE FITTING	
22	91513054	1	PIN	
23	91401189	2	KEEPER	
24	88561111	4	WASHER, 1/2	
25	88551013	4	LOCKWASHER, 1/2	
26	88201065	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
27	91403026	1	PIN	
K1	91514285	1	SEAL KIT, (includes items 5, 6, 7 & 11 thru 16)	

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FIGURE 9-18. COMPENSATING CYLINDER (SN 0160007869 through 0160007970)



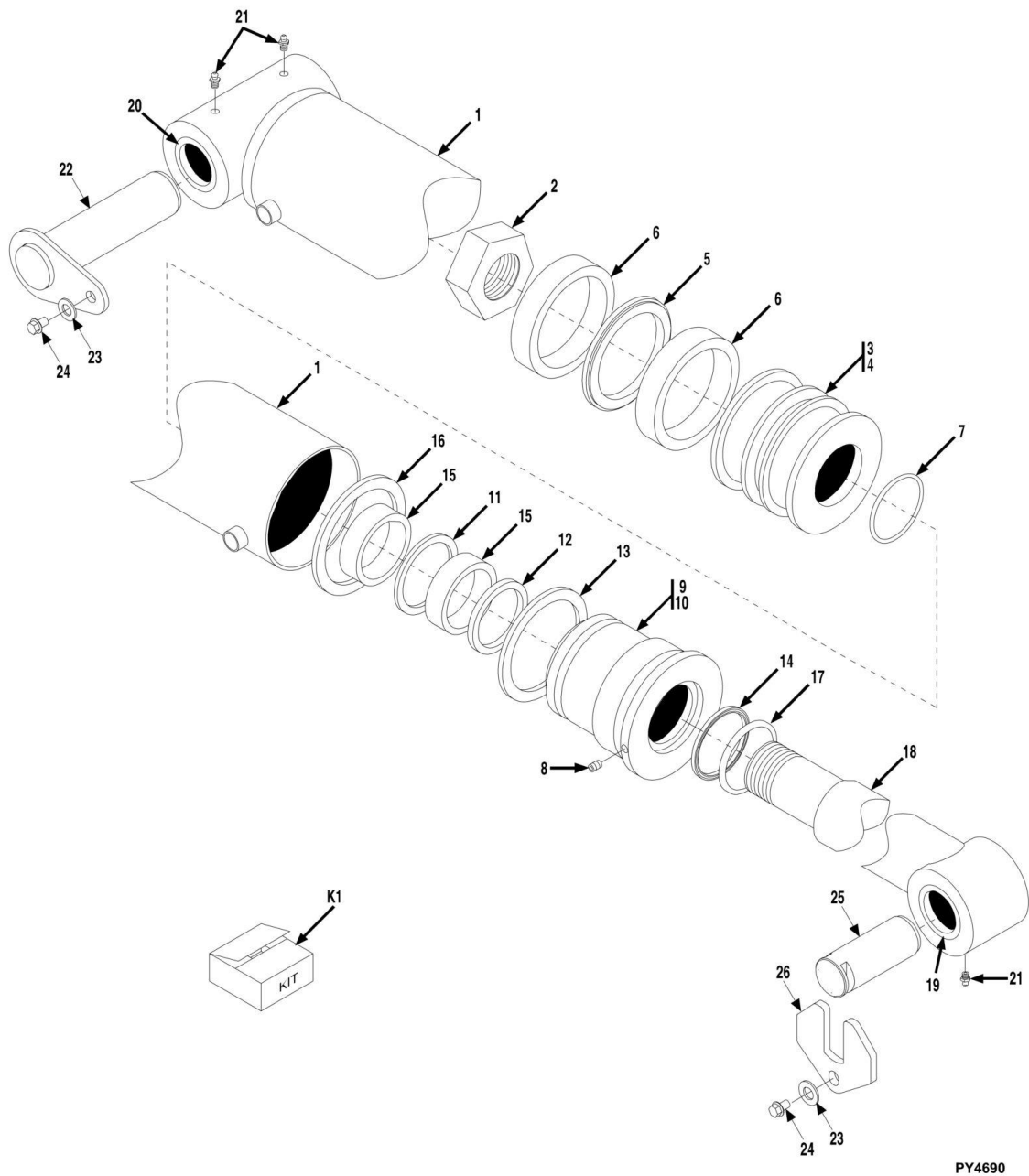
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-18. COMPENSATING CYLINDER (SN 0160007869 through 0160007970)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513226	1	COMPENSATING CYLINDER, (includes items 1 thru 21)	
1	91514282	1	CASE ASSY, (includes item 20)	
2	91034153	1	LOCKNUT, (torque to 2025-2075 lb-ft)	
3	91514283	1	PISTON ASSY, (includes items 4 thru 7)	
4	91514284	1	PISTON	
5	Kit	1	PISTON SEAL	
6	Kit	2	WEAR RING	
7	Kit	1	O-RING	
8	91124096	1	SET SCREW	
9	91514276	1	HEAD ASSY, (includes items 10 thru 16)	
10	91514277	1	HEAD, (torque to 550-600 lb-ft)	
11	Kit	1	STEP SEAL	
12	Kit	1	U-CUP	
13	Kit	1	U-CUP	
14	Kit	1	CANNED WIPER	
15	Kit	2	WEAR RING	
16	Kit	1	O-RING	
17	7026474	1	O-RING	
18	70020552	1	SHAFT ASSY, (includes item 19)	
19	91404287	1	BUSHING, (manganese phosphate coating)	
20	91404286	2	BUSHING, (manganese phosphate coating)	
21	91144128	3	GREASE FITTING	
22	91403026	1	PIN	
23	91401189	1	KEEPER	
24	88561111	2	WASHER, 1/2	
25	88551013	2	LOCKWASHER, 1/2	
26	88201065	2	HEX HD CAPSCREW, 1/2-13X1, GR5	
27	91513280	1	PIN	
28	4891800	1	HARD WASHER, 1/2	
29	0681810	1	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (torque to 100-110 lb-ft)	
K1	91514285	1	SEAL KIT, (includes items 5, 6, 7 & 11 thru 16)	

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FIGURE 9-19. COMPENSATING CYLINDER (SN 0160008020 through 0160033297)



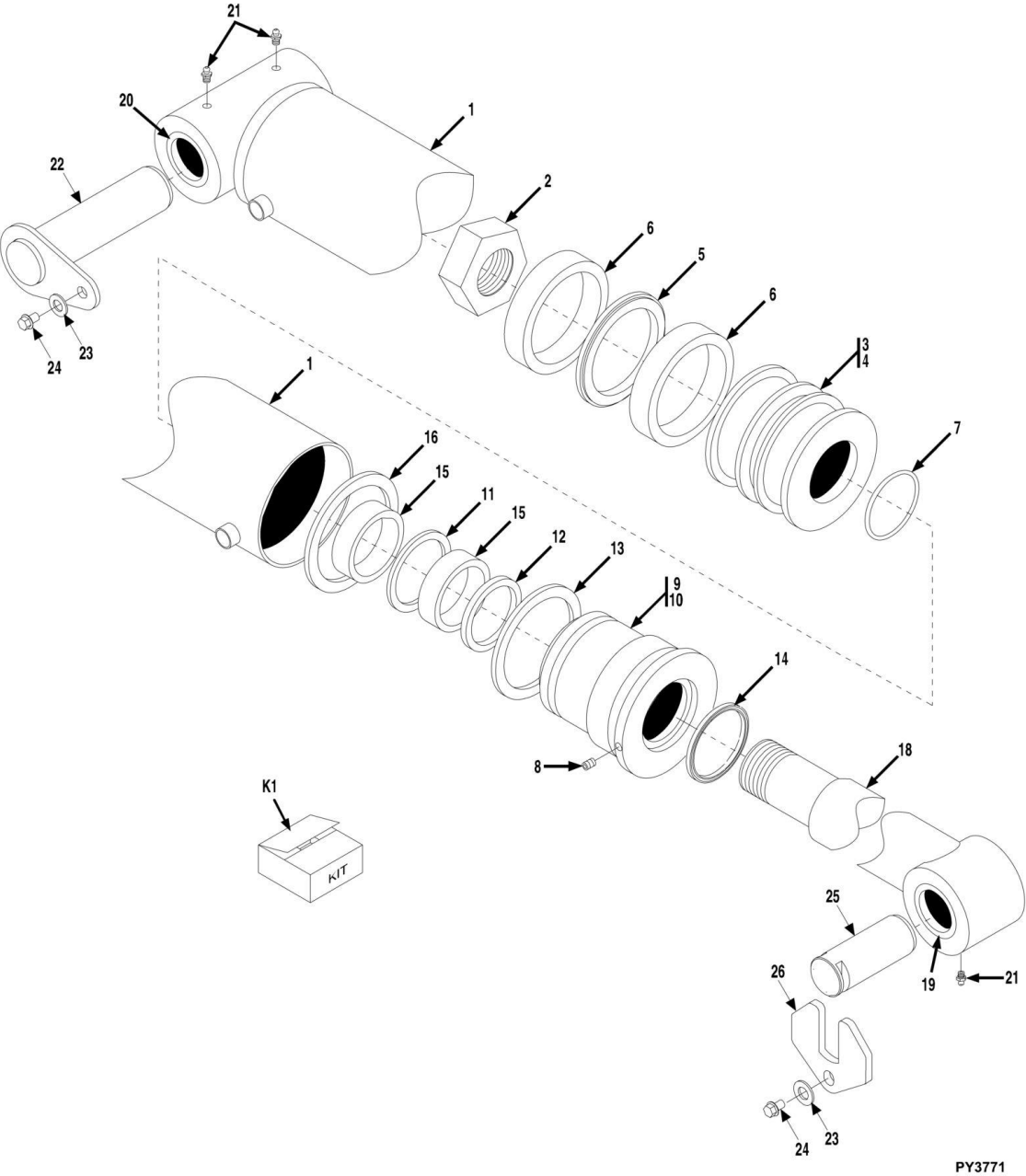
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-19. COMPENSATING CYLINDER (SN 0160008020 through 0160033297)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513226	1	COMPENSATING CYLINDER, (includes items 1 thru 21)	
1	91514282	1	CASE ASSY, (includes item 20)	
2	91034153	1	LOCKNUT, (torque to 2025-2075 lb-ft)	
3	91514283	1	PISTON ASSY, (includes items 4 thru 7)	
4	91514284	1	PISTON	
5	Kit	1	PISTON SEAL	
6	Kit	2	WEAR RING	
7	Kit	1	O-RING	
8	91124096	1	SET SCREW	
9	91514276	1	HEAD ASSY, (includes items 10 thru 16)	
10	91514277	1	HEAD, (torque to 550-600 lb-ft)	
11	Kit	1	STEP SEAL	
12	Kit	1	U-CUP	
13	Kit	1	U-CUP	
14	Kit	1	CANNED WIPER	
15	Kit	2	WEAR RING	
16	Kit	1	O-RING	
17	7026474	1	O-RING	
18	70020552	1	SHAFT ASSY, (includes item 19)	
19	91404287	1	BUSHING, (manganese phosphate coating)	
20	91404286	2	BUSHING, (manganese phosphate coating)	
21	91144128	3	GREASE FITTING	
22	91513280	1	PIN	
23	4891800	2	HARD WASHER, 1/2	
24	0681810	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (torque to 100-110 lb-ft)	
25	91513282	1	PIN	
26	91471240	1	KEEPER PLATE	
K1	91514285	1	SEAL KIT, (includes items 5, 6, 7 & 11 thru 16)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-20. COMPENSATING CYLINDER (SN 0160033316 to Present)



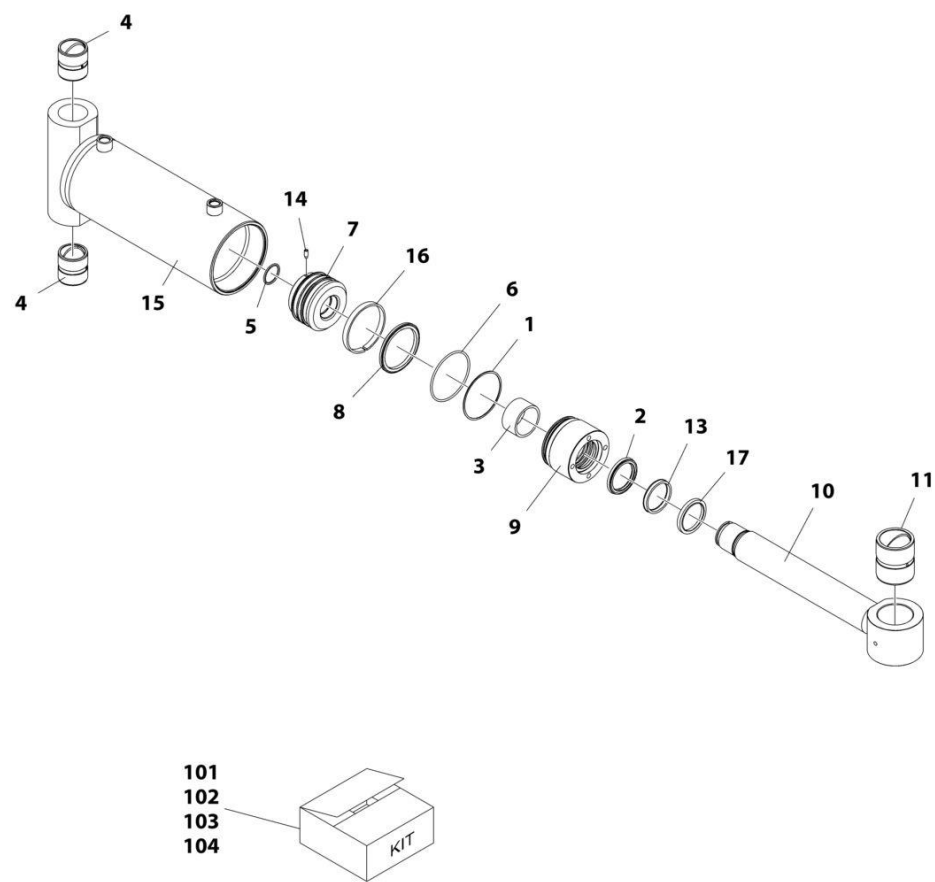
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-20. COMPENSATING CYLINDER (SN 0160033316 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513272	NLA	COMPENSATING CYLINDER, (no longer available, use items 1 through 21 for service or 1001140446 for replacement)	B
1	70022053	1	BARREL ASSY, (includes item 20)	
2	10727280	1	LOCKNUT, (torque to 2025-2075 lb-ft)	
3	70022055	1	PISTON ASSY, (includes items 4 thru 7)	
4	N.S.S.	1	PISTON	
5	Kit	1	PISTON SEAL	
6	Kit	2	WEAR RING	
7	Kit	1	O-RING	
8	7029760	1	CAPSCREW	
9	70022056	1	ROD BEARING ASSY, (includes items 10 thru 16)	
10	N.S.S.	1	ROD BEARING, (torque to 550-600 lb-ft)	
11	Kit	1	BUFFER SEAL	
12	Kit	1	ROD SEAL	
13	Kit	1	PISTON SEAL	
14	Kit	1	WIPER	
15	Kit	2	WEAR RING	
16	Kit	1	O-RING	
18	70022054	1	ROD ASSY, (includes item 19)	
19	7029872	1	BUSHING, (manganese phosphate coating)	
20	7029871	2	BUSHING, (manganese phosphate coating)	
21	91044080	3	GREASE FITTING	
22	91513280	1	PIN	
23	4891800	2	HARD WASHER, 1/2	
24	0681810	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (torque to 100-110 lb-ft)	
25	91513282	1	PIN	
26	91471240	1	KEEPER PLATE	
K1	70024012	1	SEAL KIT, (includes items 5, 6, 7 & 11 thru 16)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-21. COMPENSATING CYLINDER



ART_1001140446-B

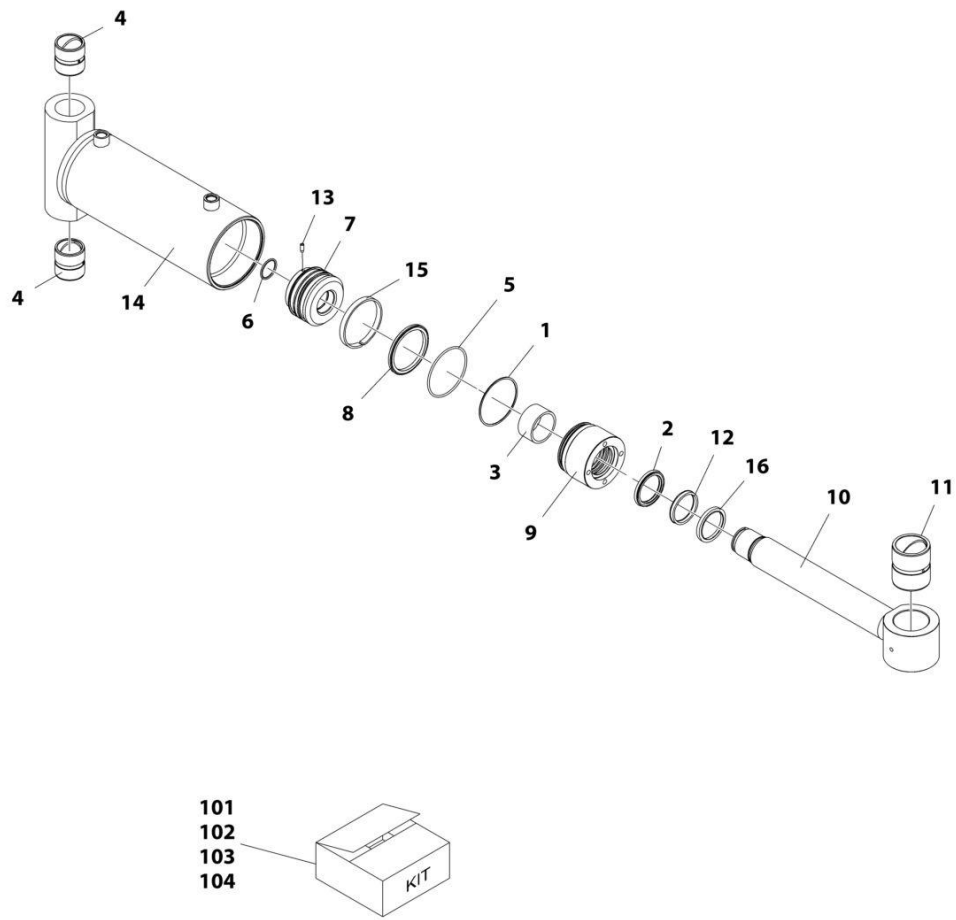
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-21. COMPENSATING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001140446	1	COMPENSATING CYLINDER	B
1	Kit	1	BACK-UP RING	
2	Kit	1	BUFFER RING	
3	Kit	1	BUSHING	
4	70025918	2	HEAD END BUSHING	
5	Kit	1	O-RING	
6	Kit	1	O-RING	
7	Kit	1	PISTON	
8	Kit	1	PISTON SEAL	
9	Kit	1	RETAINER	
10	Kit	1	ROD	
11	Kit	1	ROD END BUSHING	
13	Kit	1	ROD SEAL	
14	Kit	1	SET SCREW	
15	70025919	1	BARREL	
16	Kit	1	WEAR RING	
17	Kit	1	WIPER	
101	70025920	1	SERVICE KIT, (includes items 1,2,3,5,6,8,13,16,17)	
102	70025921	1	RETAINER SUB ASSY, (includes items 1,2,3,5,9,13,17)	
103	70025922	1	PISTON SUB ASSY, (includes items 7,8,14,16)	
104	70025923	1	ROD SERVICE KIT, (includes items 10,11,12)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-22. COMPENSATING CYLINDER



ART_1001174531-B

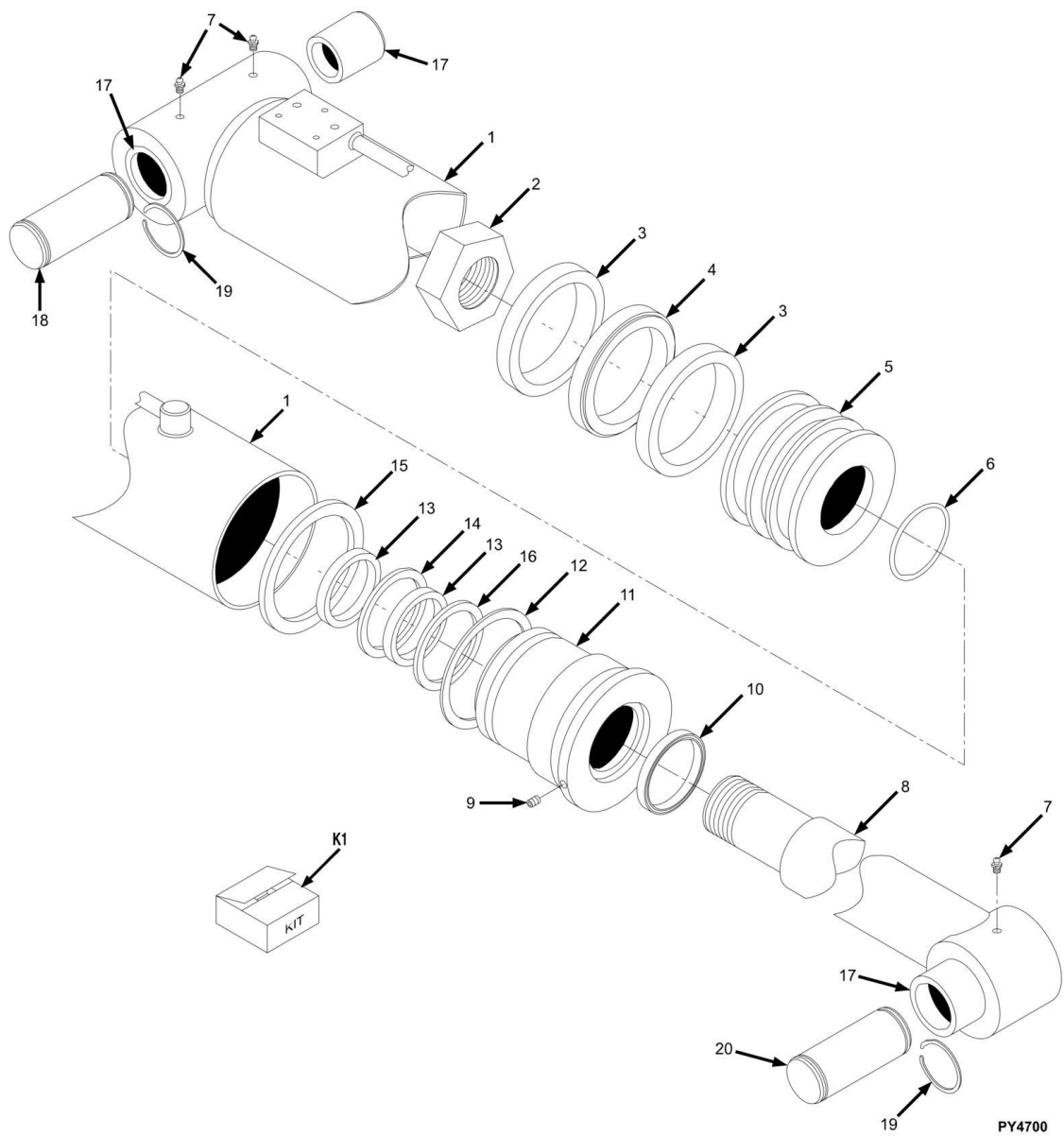
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-22. COMPENSATING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174531	1	COMPENSATING CYLINDER, (ARCTIC)	B
1	Kit	1	BACK-UP RING	
2	Kit	1	BUFFER RING	
3	Kit	1	BUSHING	
4	70025918	2	HEAD END BUSHING	
5	Kit	1	O-RING	
6	Kit	1	O-RING	
7	Kit	1	PISTON	
8	Kit	1	PISTON SEAL	
9	Kit	1	RETAINER	
10	Kit	1	ROD	
11	Kit	1	ROD END BUSHING	
12	Kit	1	ROD SEAL	
13	Kit	1	SET SCREW	
14	70025919	1	BARREL	
15	Kit	1	WEAR RING	
16	Kit	1	WIPER	
101	70025934	1	SERVICE KIT, (includes items 1,2,3,5,6,8,13,16,17)	
102	70025935	1	RETAINER KIT, (includes items 1,2,3,5,9,13,17)	
103	70025922	1	PISTON KIT, (includes items 7,8,14,16)	
104	70025923	1	ROD SERVICE KIT, (includes items 10,11,12)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-23. SWAY CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160033206)



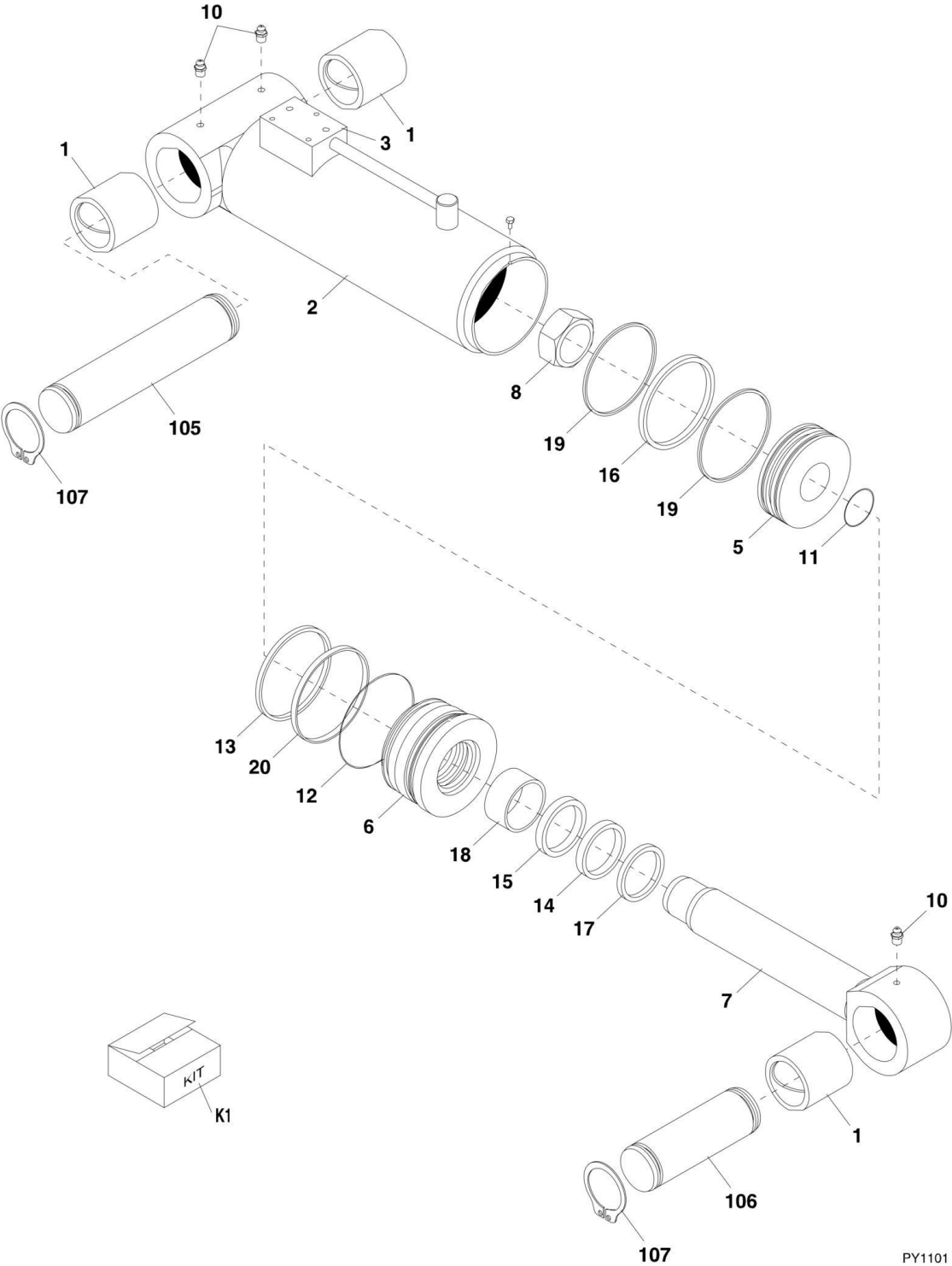
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-23. SWAY CYLINDER (SN 0193001 through 0193007, SN 0160000008 through 0160033206)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513038	1	SWAY CYLINDER, (includes items 1 thru 17)	C
1	91514057	1	CASE ASSY	
2	91064017	1	LOCK NUT, (torque to 400 lb-ft)	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	7026935	1	PISTON	
6	Kit	1	O-RING	
7	91144128	3	GREASE FITTING	
8	91514058	1	SHAFT ASSY	
9	91124096	1	SET SCREW	
10	Kit	1	CANNED WIPER	
11	91514059	1	HEAD	
12	Kit	1	BACKUP	
13	Kit	2	ROD SEAL	
14	Kit	1	STEP SEAL	
15	Kit	1	O-RING	
16	Kit	1	U-CUP	
17	91404286	3	BUSHING	
18	91403226	1	SWAY CYLINDER PIN	
19	90028935	4	RETAINING RING	
20	90207352	1	SWAY PIN	
K1	91514063	1	SEAL KIT, (includes items 3, 4, 6, 10 & 12 thru 16)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-24. SWAY CYLINDER (SN 0160033222 to Present)



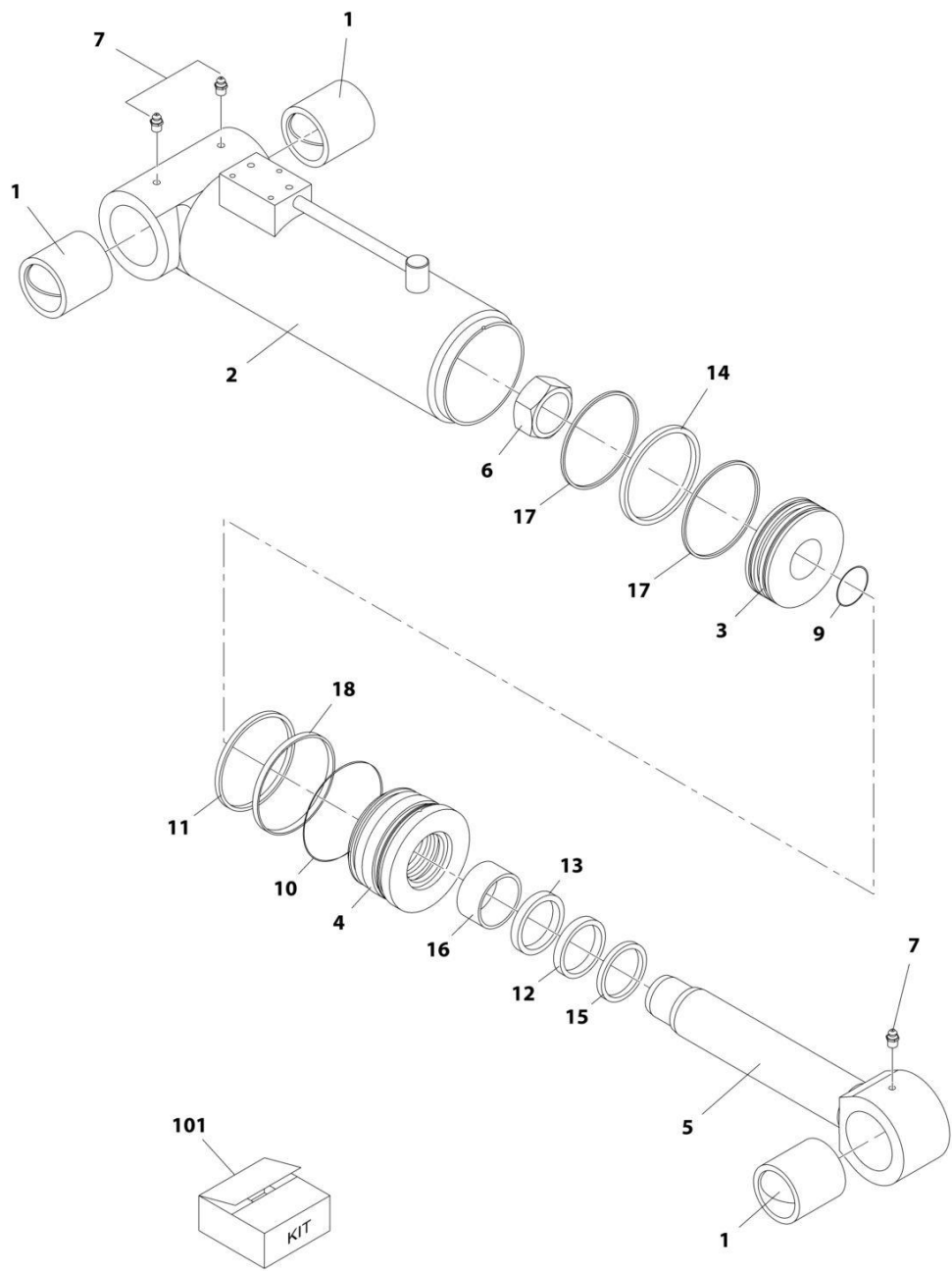
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-24. SWAY CYLINDER (SN 0160033222 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513273	1	SWAY CYLINDER, (includes items 1 thru 20)	A
1	70022508	3	BEARING	
2	70022859	1	CASE ASSY	
3	N.S.S.	1	GASKET	
5	70022861	1	PISTON	
6	70022862	1	HEAD GLAND	
7	70022863	1	SHAFT ASSY	
8	8035865	1	LOCKNUT, (torque to 720-800 lb-ft)	
10	70020375	3	GREASE FITTING	
11	Kit	1	O-RING	
12	Kit	1	O-RING	
13	Kit	1	POLYPAK	
14	Kit	1	U-CUP	
15	Kit	1	BUFFER SEAL	
16	Kit	1	T-SEAL	
17	Kit	1	SCRAPER	
18	Kit	1	WEARBAND	
19	Kit	2	WEARBAND	
20	Kit	2	LOCKING INSERT	
105	91403226	1	SWAY CYLINDER PIN	
106	91403225	1	CYLINDER PIN	
107	90028935	4	RETAINING RING	
K1	70022864	1	SEAL KIT, (includes items 11 thru 20)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-25. SWAY CYLINDER (ARCTIC)



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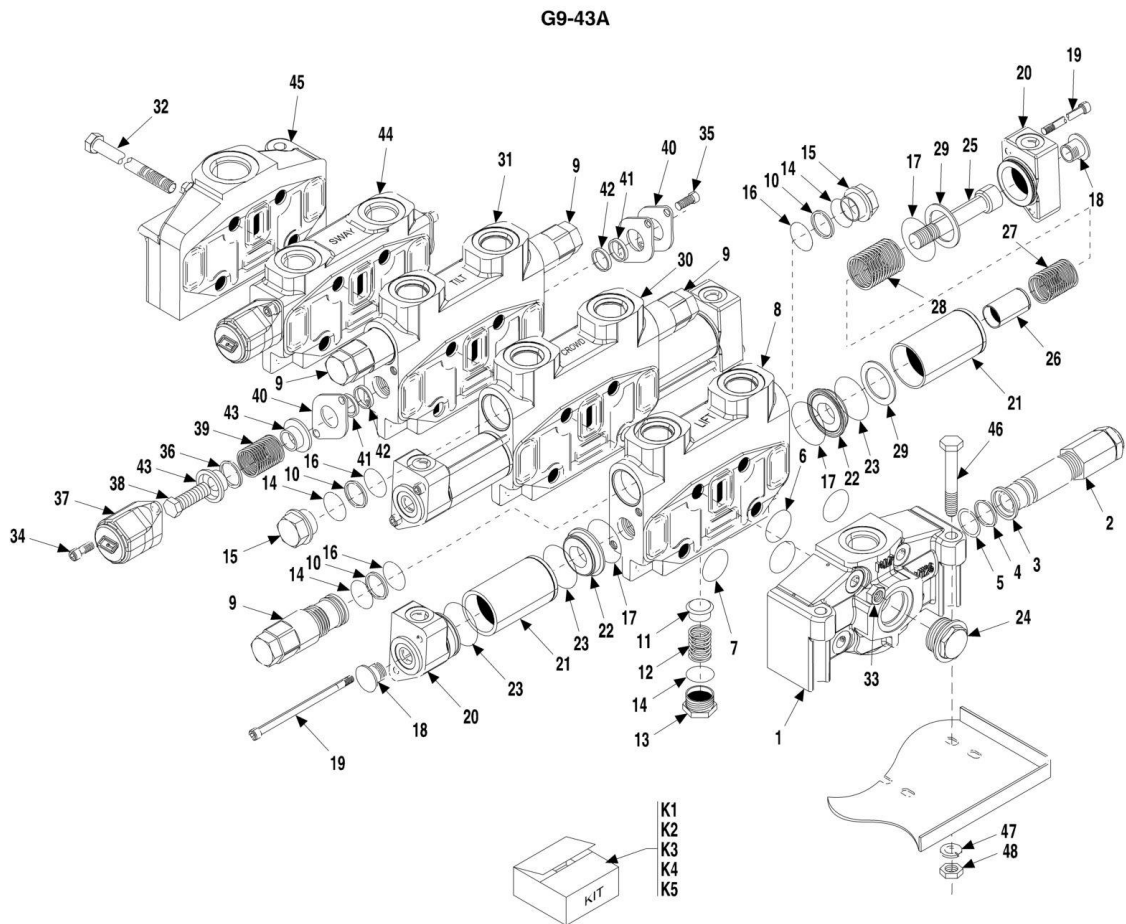
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-25. SWAY CYLINDER (ARCTIC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158767	1	SWAY CYLINDER, (ARCTIC)	A
1	70022508	3	BEARING	
2	70022859	1	BARREL	
3	70022861	1	PISTON	
4	70022862	1	GLAND	
5	70022863	1	ROD	
6	8035865	1	LOCKNUT	
7	70020375	3	GREASE FITTING	
9	Kit	1	O-RING	
10	Kit	2	O-RING	
11	Kit	1	POLYPAK	
12	Kit	1	DEEP Z-SEAL	
13	Kit	1	BUFFER SEAL	
14	Kit	1	T-SEAL	
15	Kit	1	SCRAPER	
16	Kit	1	WEAR BAND	
17	Kit	2	WEAR BAND	
18	Kit	2	LOCKING INSERT	
101	70025969	1	SEAL KIT, (includes items 9 thru 18)	

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FIGURE 9-26. MAIN CONTROL VALVE (G9-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-26. MAIN CONTROL VALVE (G9-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

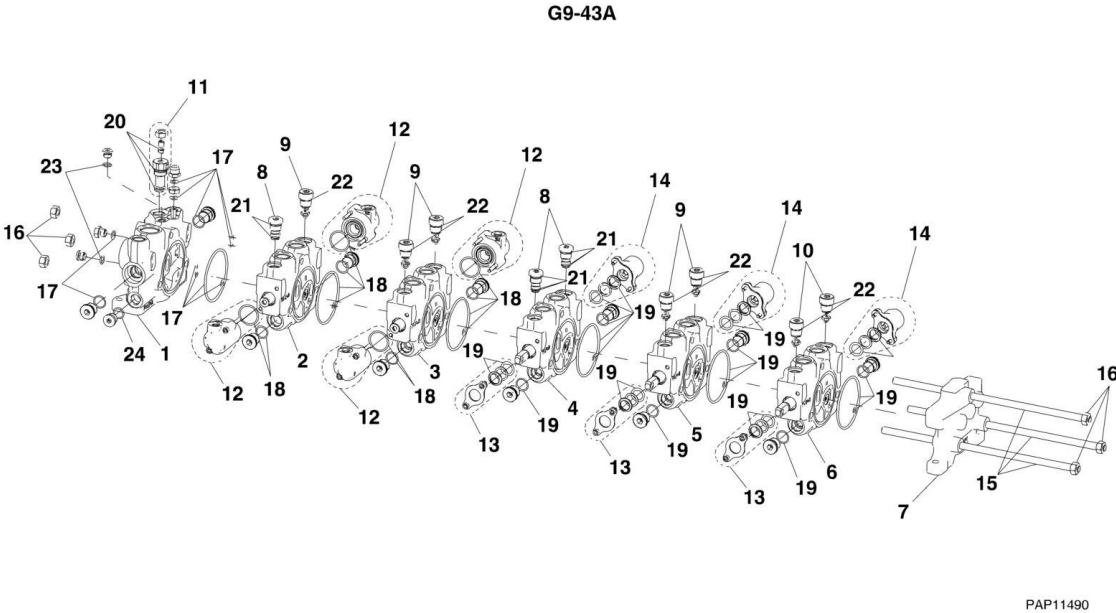
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513044	1	MAIN HYDRAULIC CONTROL VALVE (includes items 1 thru 45)	A
1	91514228	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 and three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	5	O-RING	
7	Kit	15	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	4	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	4	TRANSITION CHECK POPPET	
12	N.S.S.	4	CHECK SPRING	
13	N.S.S.	4	CHECK CAP	
14	Kit	10	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	70021294	8	HEX SOCKET CAPSCREW, (torque to 90-110 lb-in)	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	8	SEAL	
24	91514233	1	PLUG	
25	N.S.S.	2	SHOULDER BOLT	
26	N.S.S.	2	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	91514235	1	VALVE SECTION ASSY, (tilt), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 9, 34, 35 & 41 thru 43 and three of items 7 & 40)	
32	Kit	4	STUD ASSY, (includes item 33), (torque to 41.6 lb-ft)	
33	Kit	4	HEX NUT	
34	N.S.S.	4	SCREW	
35	N.S.S.	4	SCREW	
36	N.S.S.	2	SPACER	
37	N.S.S.	2	VALVE CAP	
38	N.S.S.	2	STRIPPER BOLT	
39	N.S.S.	2	RETURN SPRING	
40	N.S.S.	6	RETAINING PLATE	
41	Kit	4	BACK-UP RING, (teflon)	
42	Kit	4	QUAD SEAL	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	N.S.S.	4	SPRING GUIDE	
44	91514236	1	VALVE SECTION ASSY, (sway), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
45	91514237	1	OUTLET COVER ASSY	
46	88411074	3	ROUND HD CARRIAGE BOLT, #3/8-16X4	
47	4761600	3	LOCKWASHER, 3/8	
48	88501006	3	HEX NUT, 3/8-16	
K1	91514220	5	VALVE SECTION SEAL KIT, (includes one of item 6 and three of item 7)	
K2	91514221	1	MAIN RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514226	2	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K4	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 and four of item 23)	
K5	91514250	1	STUD KIT, (includes items 32 & 33)	

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FIGURE 9-27. MAIN CONTROL VALVE (G9-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



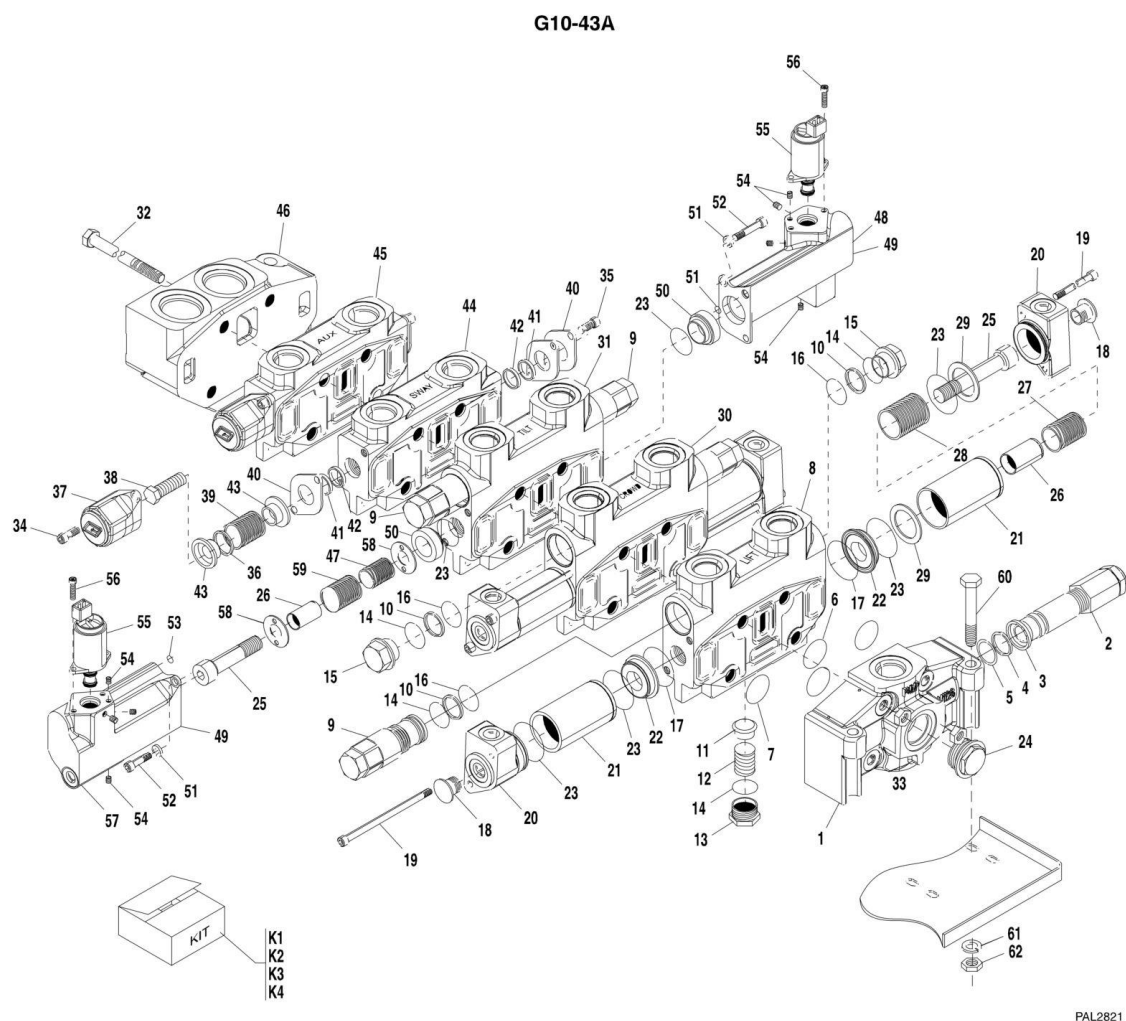
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-27. MAIN CONTROL VALVE (G9-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001105611	1	MAIN CONTROL VALVE (includes items 1 thru 24)	G
1	70023311	1	INLET SECTION ASSY	
2	70024192	1	SPOOL SECTION ASSY, LIFT	
3	70024193	1	SPOOL SECTION ASSY, CROWD	
4	70024194	1	SPOOL SECTION ASSY, SWAY	
5	70024195	1	SPOOL SECTION ASSY, FORK TILT	
6	70024196	1	SPOOL SECTION ASSY, AUX	
7	70024197	1	OUTLET SECTION ASSY	
8	70022008	3	SHUT-OFF PLUG ASSY	
9	70022010	5	RELIEF VALVE, 280 BAR	
10	70022011	2	RELIEF VALVE, 185 BAR	
11	70024198	1	DRAIN REGULATOR ASSY	
12	70022016	4	END MECHANISM PO KIT	
13	70023318	3	SEAL PLATE GROUP	
14	70023319	3	END MECHANISM KIT	
15	70023320	3	TIE ROD, METRIC	
16	70022019	6	TIE ROD NUT, METRIC	
17	70022020	1	INLET SEAL KIT	
18	70024199	2	PO SECTION SEAL KIT	
19	70024200	3	MANUAL SECTION SEAL KIT	
20	8036508	1	DRAIN REGULATOR SEAL KIT	
21	70022023	3	SHUT-OFF PLUG/FULL FLOW RV SEAL KIT	
22	70022025	7	O-RING	
23	70024201	2	O-RING	
24	70024202	1	O-RING	
108	8304042	4	ROUND HD CARRIAGE BOLT, 3/8-16X1-1/2, (not shown)	
109	4761600	4	LOCKWASHER, 3/8, (not shown)	
110	88501006	4	HEX NUT, 3/8-16, (not shown)	
115	4751600	4	WASHER, 3/8, (not shown)	

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FIGURE 9-28. MAIN CONTROL VALVE (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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FIGURE 9-28. MAIN CONTROL VALVE (G10-43A) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

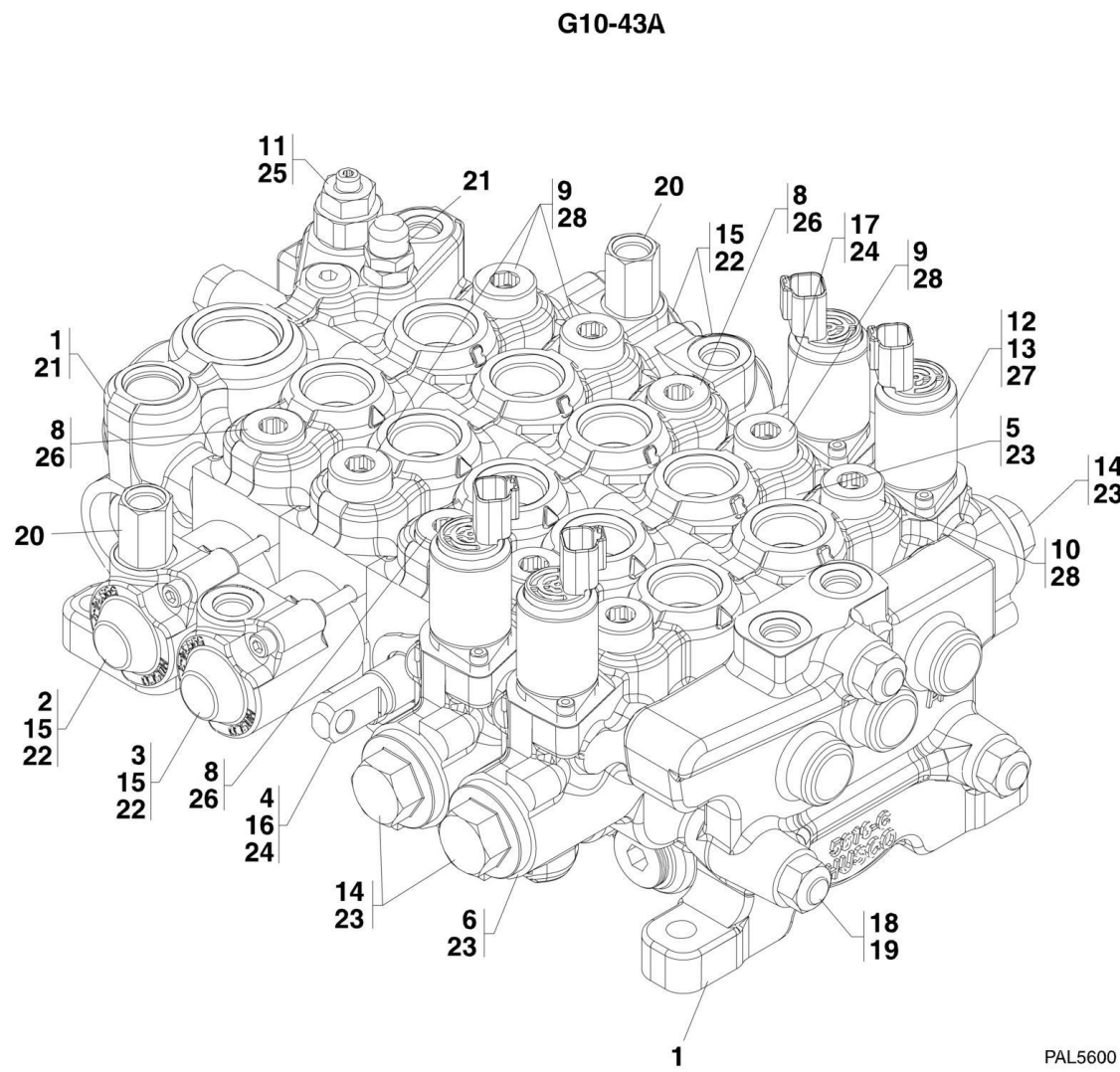
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001034	1	MAIN HYDRAULIC CONTROL VALVE (includes items 1 thru 45)	C
1	7029963	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 and three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	6	O-RING	
7	Kit	18	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	4	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	5	TRANSITION CHECK POPPET	
12	N.S.S.	5	CHECK SPRING	
13	N.S.S.	5	CHECK CAP	
14	Kit	11	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	N.S.S.	8	HEX SOCKET CAPSCREW	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	10	SEAL	
24	Kit	1	PLUG	
25	N.S.S.	3	SHOULDER BOLT	
26	N.S.S.	3	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	91514239	1	VALVE SECTION ASSY, (tilt), (includes items 41, 48 & 57, one of items 6 & 11 thru 14, two of item 9 and three of item 7)	
32	7029966	4	STUD ASSY, (includes item 33)	
33	N.S.S.	4	HEX NUT	
34	N.S.S.	4	SCREW	
35	N.S.S.	4	SCREW	
36	N.S.S.	1	SPACER	
37	N.S.S.	2	VALVE CAP	
38	N.S.S.	2	STRIPPER BOLT	
39	N.S.S.	2	RETURN SPRING	
40	N.S.S.	6	RETAINING PLATE	
41	Kit	6	BACK-UP RING, (teflon)	
42	Kit	4	QUAD SEAL	
43	N.S.S.	4	SPRING GUIDE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	7029964	1	VALVE SECTION ASSY, (sway), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
45	7029965	1	VALVE SECTION ASSY, (aux), (includes one of items 6, 11 thru 14 & 37 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
46	7029967	1	OUTLET COVER ASSY	
47	N.S.S.	1	SPRING	
48	91514240	1	END CAP ASSY, (includes one of items 23, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
49	N.S.S.	2	END CAP	
50	N.S.S.	2	RETAINER SEAL	
51	N.S.S.	4	LOCKWASHER	
52	N.S.S.	4	CAPSCREW, 1/4-20X0.88	
53	N.S.S.	2	O-RING	
54	N.S.S.	8	EXPANDER PLUG	
55	70020170	2	SOLENOID	
56	N.S.S.	4	CAPSCREW	
57	91514241	1	END CAP ASSY, (includes items 47, 58 & 59, one of items 23, 25, 26, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
58	N.S.S.	2	SPRING GUIDE	
59	N.S.S.	1	SPRING	
60	88411074	3	ROUND HD CARRIAGE BOLT, #3/8-16X4	
61	4761600	3	LOCKWASHER, 3/8	
62	88501006	3	HEX NUT, 3/8-16	
K1	91514220	6	VALVE SECTION SEAL KIT, (includes one of item 6 and three of item 7)	
K2	91514221	1	RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514226	2	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K4	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 and four of item 23)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-29. MAIN CONTROL VALVE (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



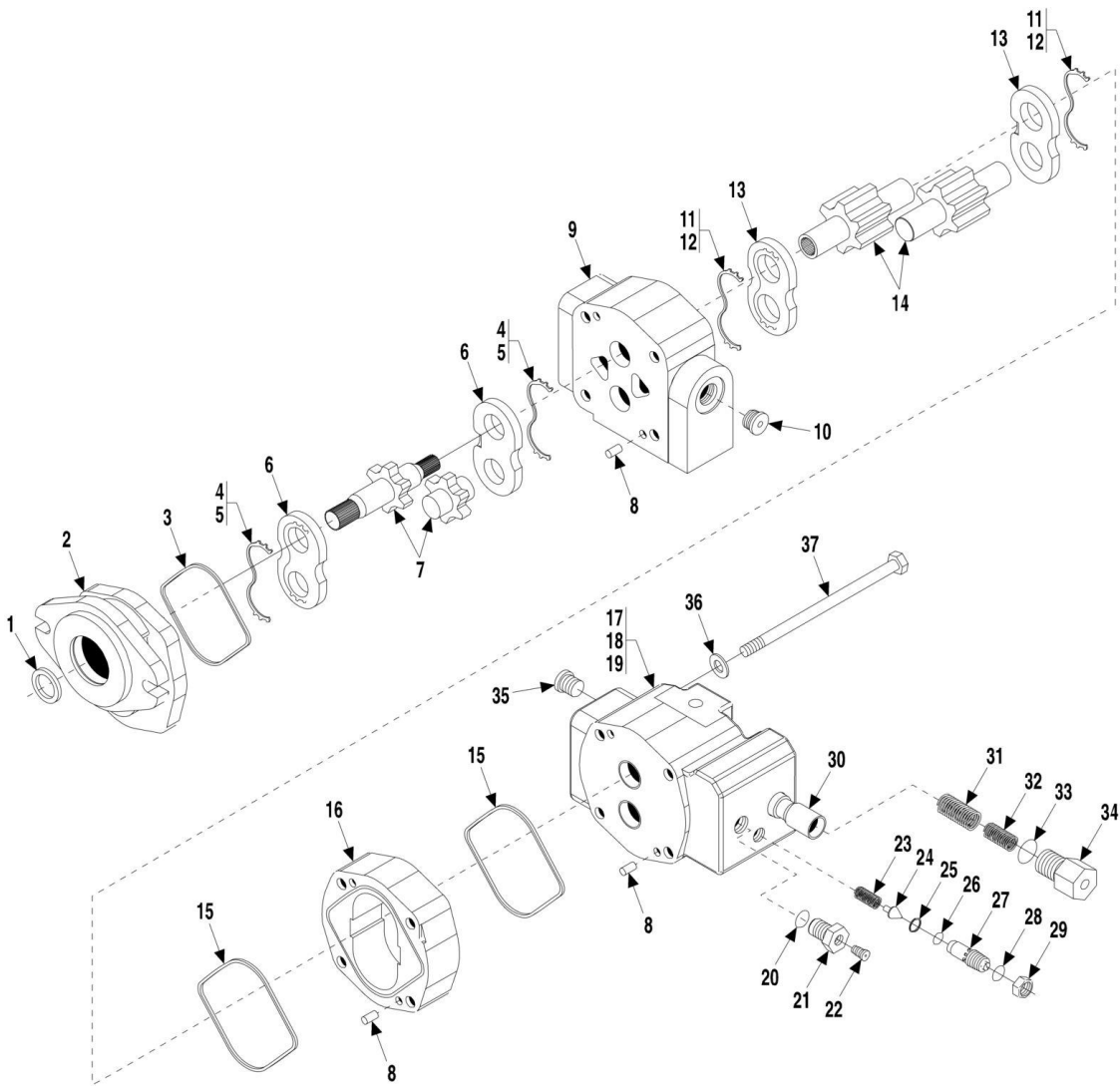
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-29. MAIN CONTROL VALVE (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107464	1	MAIN CONTROL VALVE	C
1	70023311	1	INLET SECTION ASSY	
2	70023312	1	SPOOL SECTION ASSY, LIFT	
3	70023313	1	SPOOL SECTION ASSY, CROWD	
4	70023314	1	SPOOL SECTION ASSY, SWAY	
5	70023315	1	SPOOL SECTION ASSY, TILT	
6	70023316	1	SPOOL SECTION ASSY, AUX	
7	70022007	1	OUTLET SECTION ASSY	
8	70022008	3	SHUT-OFF PLUG ASSY	
9	70022010	5	RELIEF VALVE, 280 BAR	
10	70022011	2	RELIEF VALVE, 185 BAR	
11	70023317	1	DRAIN REGULATOR ASSY	
12	70022013	4	SOLENOID-CARTRDGE VALVE	
13	70022014	8	SOCKET HD CAPSCREW	
14	70022015	4	END MECHANISM KIT	
15	70022016	4	END MECHANISM KIT, PO	
16	70023318	1	SEAL PLATE GROUP	
17	70023319	1	SPOOL END GROUP	
18	70023320	3	TIE ROD	
19	70022019	6	TIE ROD NUT	
20	70023321	2	CHECK VALVE ASSY	
21	70022020	1	INLET SEAL KIT	
22	70022021	1	PO SECTION SEAL KIT	
23	70022022	1	EH SECTION SEAL KIT	
24	70023322	1	MANUAL SECTION SEAL KIT	
25	8036508	1	DRAIN REGULATOR SEAL KIT	
26	70022023	1	SHUT-OFF PLUG AND FULL FLOW RV SEAL KIT	
27	70022024	1	PPRV SEAL KIT	
28	70023323	1	O-RING	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-30. HYDRAULIC PUMP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



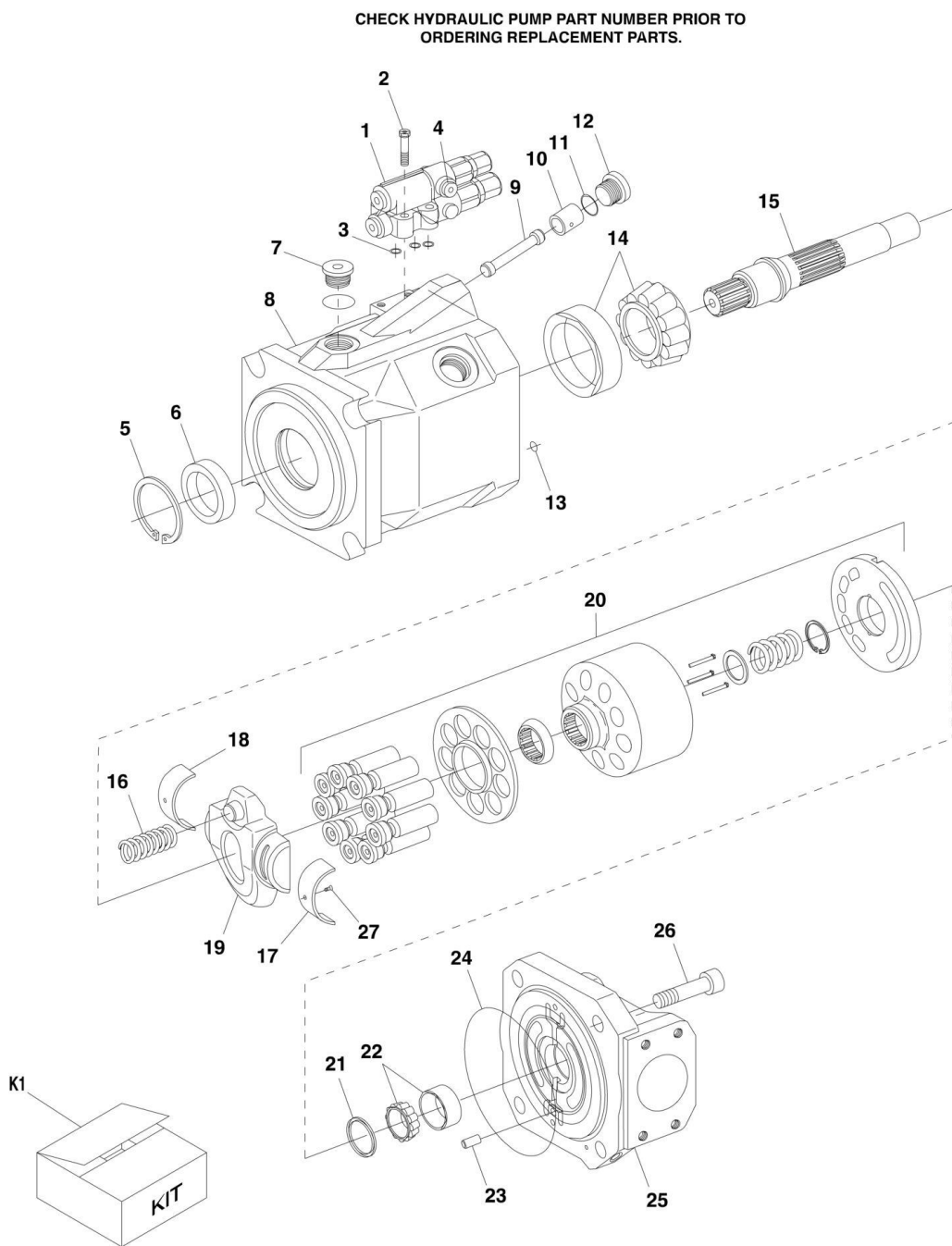
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-30. HYDRAULIC PUMP (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513160	1	TANDEM IMPLEMENT PUMP, (includes all items)	B
1	77134026	1	LIP SEAL	
2	91514073	1	SHAFT END COVER HOUSING	
3	91514217	1	O-RING	
4	91474182	2	SEAL	
5	91414038	2	BACK-UP SEAL	
6	83674096	2	THRUST PLATE	
7	91514077	1	GEAR SHAFT SET	
8	83671037	6	DOWEL PIN	
9	91514075	1	BEARING CARRIER HOUSING	
10	91514076	1	PLUG	
11	91514215	2	SEAL	
12	91514216	2	BACK-UP SEAL	
13	91034317	2	THRUST PLATE	
14	91034322	1	GEAR SET	
15	91514203	2	O-RING	
16	91034319	1	GEAR HOUSING	
17	91514074	1	PRIORITY VALVE ASSY, (includes items 18 thru 35)	
18	N.S.S.	1	PRIORITY PORT END	
19	83664064	2	BUSHING	
20	91514204	1	O-RING	
21	N.S.S.	1	PRIMARY GAUGE PORT PLUG	
22	77344041	1	PLUG	
23	91514205	1	RELIEF VALVE SPRING	
24	91514206	1	FLOATING POPPET	
25	91514207	1	BACK-UP RING	
26	91514208	1	O-RING	
27	91514209	1	SCREW WITH SCREEN	
28	91514210	1	O-RING	
29	91514211	1	HEX NUT	
30	N.S.S.	1	SPOOL	
31	91514212	1	OUTER SPRING, 100PSI	
32	N.S.S.	1	INNER SPRING, 50PSI	
33	91514213	1	O-RING	
34	N.S.S.	1	SPOOL SPRING END CAP	
35	91514214	1	HEX SOCKET PLUG	
36	8035261	4	WASHER	
37	91514078	4	CAPSCREW, 5/8-11X9.5, GR8	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-31. HYDRAULIC PUMP (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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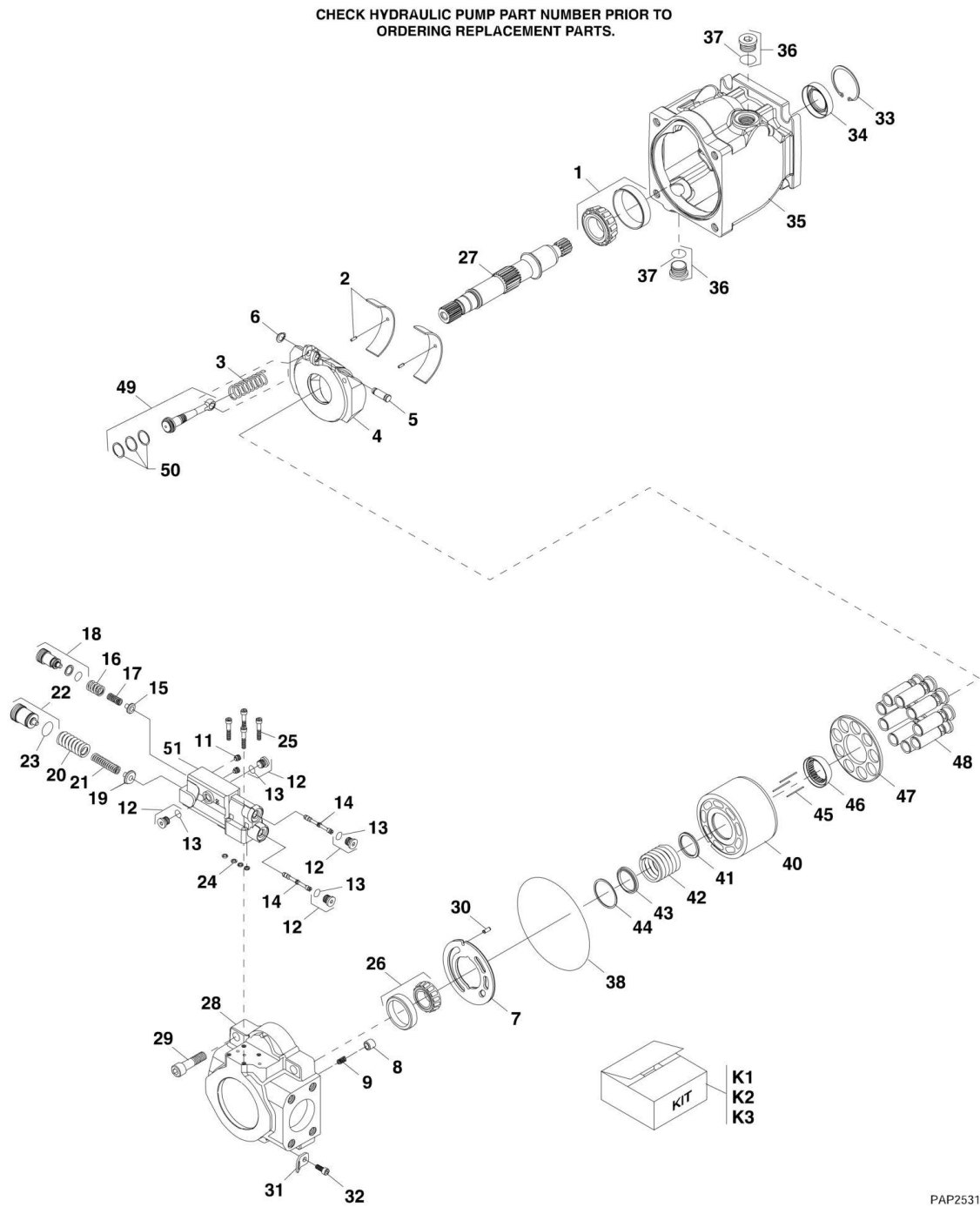
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-31. HYDRAULIC PUMP (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128072	1	VARIABLE DISPLACEMENT PUMP, (includes all items)	B
1	70020797	1	PILOT VALVE, (includes items 2, 3 & 4)	
2	Kit	4	SOCKET SCREW, M6X30, GR10.9	
3	Kit	3	O-RING, (option)	
3	Kit	1	GASKET, (one piece design, if needed)	
4	Kit	1	PLUG	
5	Kit	1	SAFETY RING	
6	7024947	1	SHAFT SEAL	
7	N.S.S.	1	PLUG	
8	70024185	1	PUMP HOUSING	
9	7024935	1	PISTON ROD	
10	70024186	1	CONTROL VALVE	
11	Kit	1	O-RING	
12	Kit	1	SCREW PLUG	
13	Kit	2	O-RING	
14	7024943	1	TAPERED ROLLER BEARING	
15	7024939	1	DRIVE SHAFT	
16	Kit	1	SPRING	
17	7024945	1	CRADLE SHELL, RH	
18	7024946	1	CRADLE SHELL, LH	
19	7024938	1	SWASH PLATE	
20	70024188	1	ROTARY GROUP	
21	7024942	1	SHIM	
22	7024944	1	TAPERED ROLLER BEARING	
23	Kit	1	DOWEL PIN	
24	Kit	1	O-RING	
25	7024937	1	PORT PLATE	
26	Kit	4	SOCKET SCREW, M14X35, GR10.9	
27	N.S.S.	2	COUNTERSUNK SCREW, M5X16	
K1	70024189	1	SEAL KIT, (includes items 2 thru 5, 11 thru 13, 16, 23, 24 & 26)	

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FIGURE 9-32. HYDRAULIC PUMP (SN 0160040675 through 0160061444, Including 0160040468 and 0160040672)



SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-32. HYDRAULIC PUMP (SN 0160040675 through 0160061444, Including 0160040468 and 0160040672)

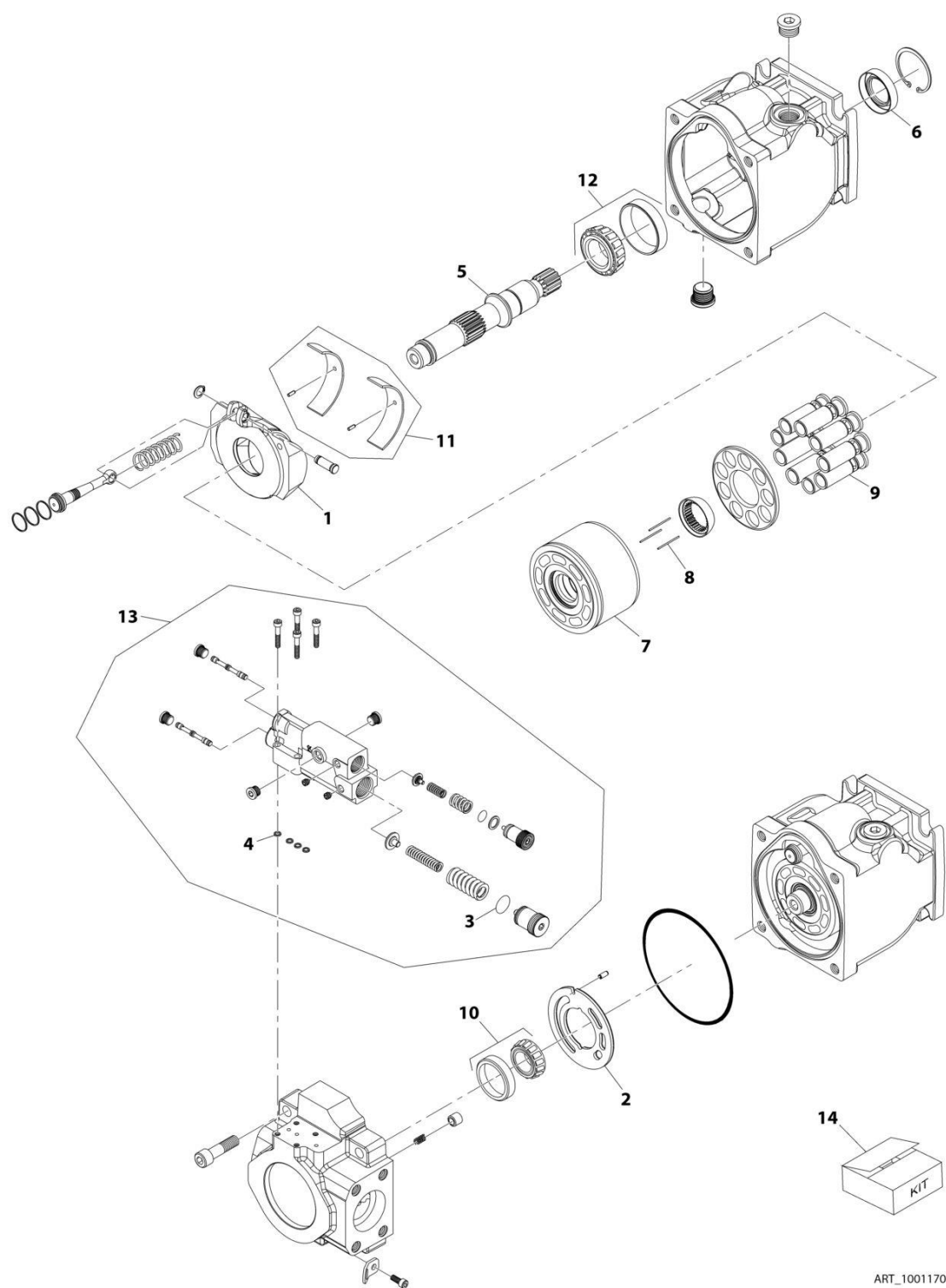
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001105613	NLA	HYDRAULIC PUMP, (no longer available, use 1001170639 for replacement or items 1 thru 51 for service)	D
1	70002578	1	FRONT BEARING KIT	
2	70002579	1	SWATCH PLATE BEARING KIT	
3	70002580	1	SPRING	
4	70002581	1	SWASH PLATE	
5	70002582	1	RETAINER SHAFT	
6	70002583	1	RETAING RING	
7	70023349	1	LH VALVE PLATE	
8	70001956	1	CHECK VALVE POPPET	
9	70001955	1	SPRING	
11	70023351	2	SET SCREW	
12	70002133	4	PLUG	
13	7007207	8	O-RING	
14	70023352	2	SPOOL	
15	70023353	1	SPRING GUIDE, LS	
16	70023354	1	OUTER SPRING, LS	
17	70023355	1	INNER SPRING, LS	
18	70023356	2	ADJUSTING PLUG, LS	
19	70023357	1	SPRING GUIDE, PC	
20	70023358	1	OUTER SPRING, PC	
21	70023359	1	INNER SPRING, PC	
22	70023360	1	ADJUSTING PLUG, PC	
23	70023361	2	O-RING	
24	70023362	8	SEAL RING	
25	70023363	4	SCREW	
26	70002585	1	REAR BEARING KIT	
27	70023364	1	SHAFT	
28	70023365	1	RADIAL END CAP	
29	70002588	4	SCREW	
30	7007446	1	SLOTTED PIN	
31	7022340	1	LIFTING BRACKET	
32	70002590	1	SCREW	
33	7023962	1	RETAINING RING	
34	70022287	2	LIP SEAL	
35	70022288	1	HOUSING	
36	7023964	2	PLUG	
37	7007415	4	O-RING	
38	70002595	2	END CAP SEAL	
40	70023366	1	CYLINDER BLOCK	
41	7007429	1	SPRING SEAT	
42	70002591	1	SPRING	
43	7007427	1	SPRING SEAT	
44	7007426	1	RETAINING RING	
45	7021275	3	HOLD DOWN PIN	
46	70002592	1	SLIPPER RETAINER GUIDE	
47	70002593	1	SLIPPER RETAINER	
48	70002594	9	PISTON ASSY	
49	70023367	1	SERVO PISTON ASSY	

SECTION 9 - HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	70002598	6	PISTON RING	
51	Kit	1	PILOT VALVE	
K1	70023350	1	CONTROL KIT, (includes items 11 thru 25 & 51)	
K2	70002596	1	CYLINDER BLOCK KIT, (includes items 40 thru 48)	
K3	70002599	1	OVERHAUL SEAL KIT	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-33. HYDRAULIC PUMP (SN 0160061445 to Present)



ART_1001170639-B

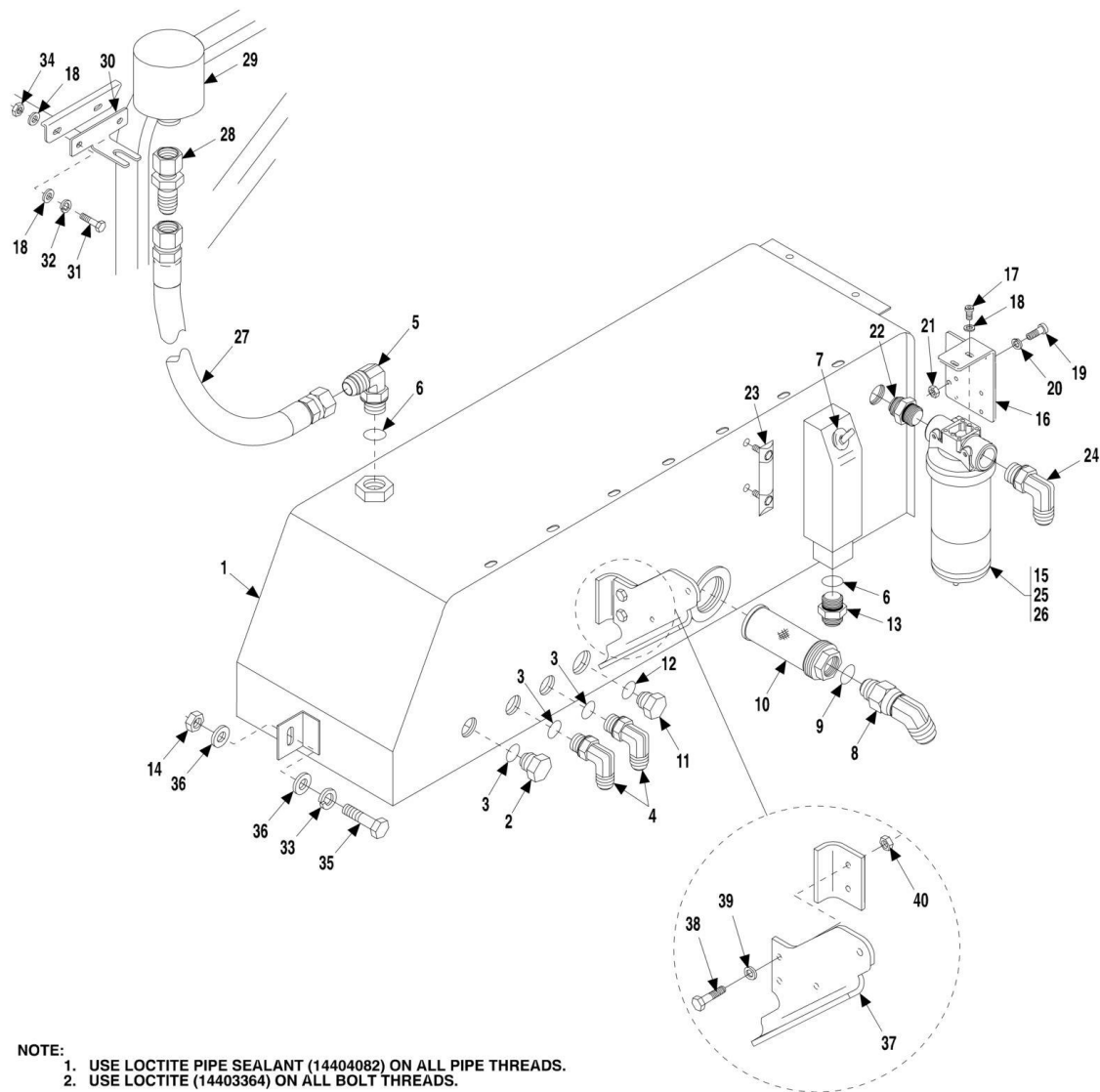
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-33. HYDRAULIC PUMP (SN 0160061445 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170639	Ref	HYDRAULIC PUMP	B
1	70004416	1	SWASHPLATE	
2	70026714	1	PLATE, VALVE	
3	70023361	4	O-RING	
4	70023362	4	RING, SEAL	
5	70023364	1	SHAFT	
6	70022287	1	SEAL, LIP	
7	70004421	1	CYLINDER	
8	7021275	3	PIN, HOLD DOWN	
9	70004422	9	PISTON	
10	70002585	1	KIT, REAR BEARING	
11	70004426	1	KIT, SWASHPLATE BEARING (includes qty 2 bearings and retainer)	
12	70002578	1	KIT, FRONT BEARING	
13	70023350	1	KIT, CONTROL	
14	70002599	1	KIT, OVERHAUL SEAL (includes items 3, 4 & 6)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-34. HYDRAULIC TANK ASSEMBLY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



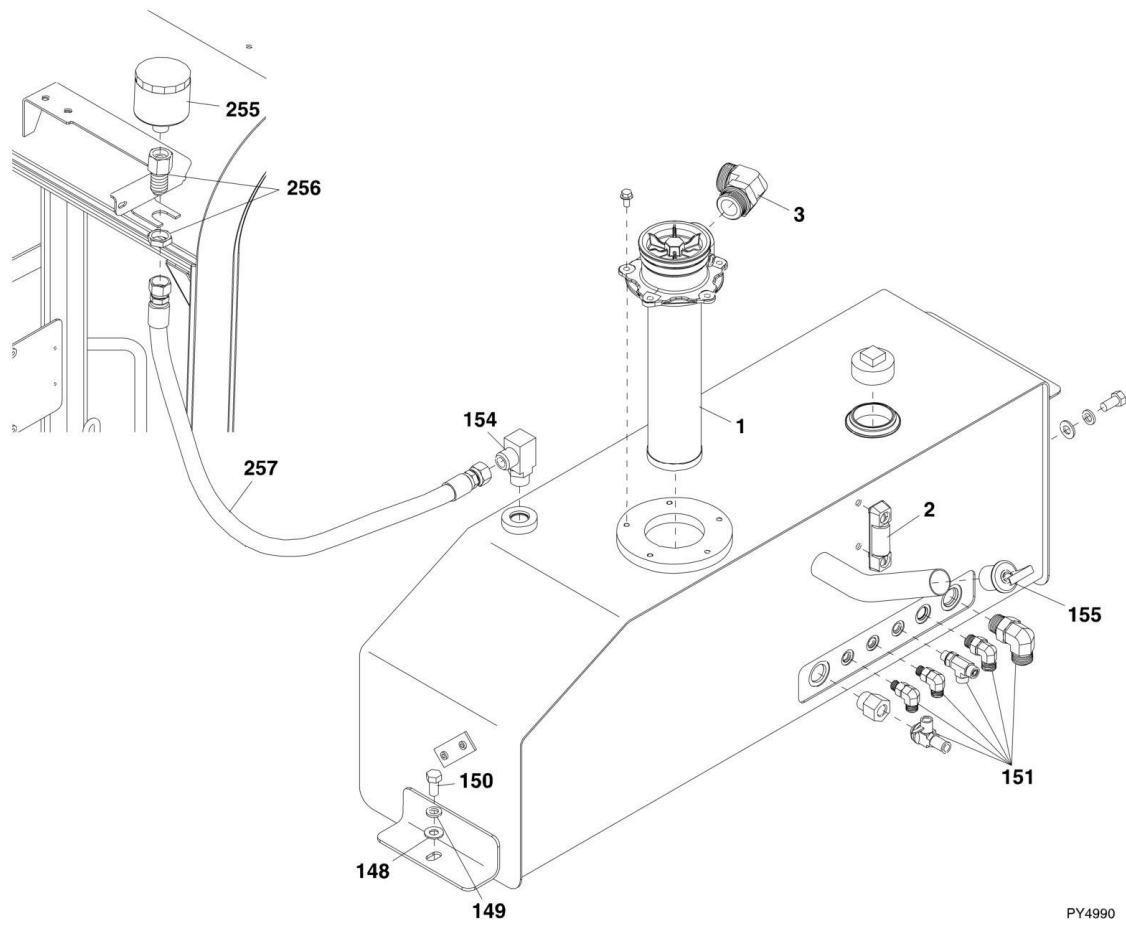
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-34. HYDRAULIC TANK ASSEMBLY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515011	Ref	HYDRAULIC TANK ASSY, (includes items 1 thru 26)	E
1	91513057	1	HYDRAULIC RESERVOIR	
2	2220237	1	HEX HD PLUG, (includes item 3)	
3	88591204	3	O-RING	
4	2220473	2	ELBOW, 90, (includes item 3)	
5	2220578	1	ELBOW, 90, (includes item 6)	
6	88591207	2	O-RING	
7	91403579	1	FILLER CAP	
8	8760351	1	ELBOW, 45, (includes item 9)	
9	88591211	1	O-RING	
10	91513077	1	SUCTION SCREEN	
11	2220238	1	HEX HD PLUG, (includes item 12)	
12	88591205	1	O-RING	
13	2220451	1	CONNECTOR, (includes item 6)	
14	88501008	3	HEX NUT, 1/2-13	
15	91143218	1	HYDRAULIC OIL FILTER, (includes items 25 & 26)	
16	91511156	1	FILTER BRACKET	
17	88261022	2	SOCKET BUTTON HD CAPSCREW, 5/16-18X3/4	
18	88561003	2	FLAT WASHER, 5/16	
19	88261029	2	SOCKET BUTTON HD CAPSCREW, 3/8-16X1	
20	88551011	2	LOCKWASHER, 3/8	
21	77143015	2	WHIZ-LOCKNUT, 3/8	
22	2220893	1	CONNECTOR	
23	7024441	1	FLUID LEVEL GAUGE, (includes mounting hardware)	
24	2220464	1	ELBOW, 90	
25	2120168	1	FILTER ELEMENT	
26	91084022	1	GAUGE	
27	84719610	1	BREATHER HOSE	
28	91163100	1	BULKHEAD FITTING	
29	1340021	1	BREATHER	
30	91471174	1	BREATHER MOUNTING BRACKET	
31	88201020	2	HEX HD CAPSCREW, 5/16-18X1, GR5	
32	88551010	2	LOCKWASHER, 5/16	
33	88551013	3	LOCKWASHER, 1/2	
34	88501005	2	HEX NUT, 5/16-18	
35	88201067	3	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
36	88561111	6	FLAT WASHER, 1/2	
37	91514297	1	STRUT MOUNTING BRACKET	
38	0641608	2	HEX HD CAPSCREW, 3/8-16, GR5	
39	4711600	2	FLAT WASHER, 3/8-16	
40	3271605	2	NYLOK NUT, 3/8-16	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-35. HYDRAULIC TANK ASSEMBLY (SN 0160040675 to Present, Including 0160040468 and 0160040672)



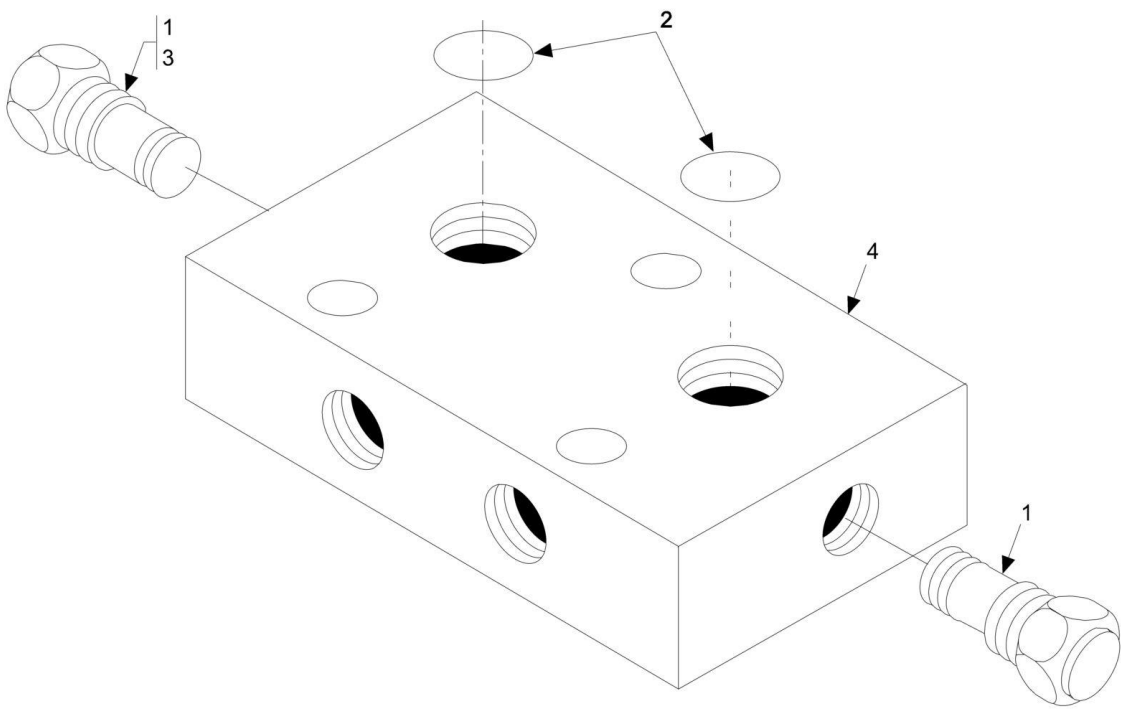
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-35. HYDRAULIC TANK ASSEMBLY (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128744	Ref	HYDRAULIC TANK ASSY, (includes items 1 & 2)	A
1	1001097732	1	FILTER	
2	91563136	1	FLUID LEVEL GAUGE	
3	2132020	1	ELBOW, 90	
148	4711800	3	WASHER, 1/2	
149	4761800	3	LOCKWASHER, 1/2	
150	0641808	3	HEX HD CAPSCREW, 1/2-13X1, GR5	
151		Ref	HYDRAULIC FITTINGS, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
154	2220578	1	ADAPTER, 90	
155	91403579	1	BREATHER CAP	
255	1340021	1	AIR BREATHER	
256	91163100	1	BULKHEAD CONNECTOR, FEMALE	
257	84719610	1	HOSE ASSY	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-36. SWAY CYLINDER VALVE



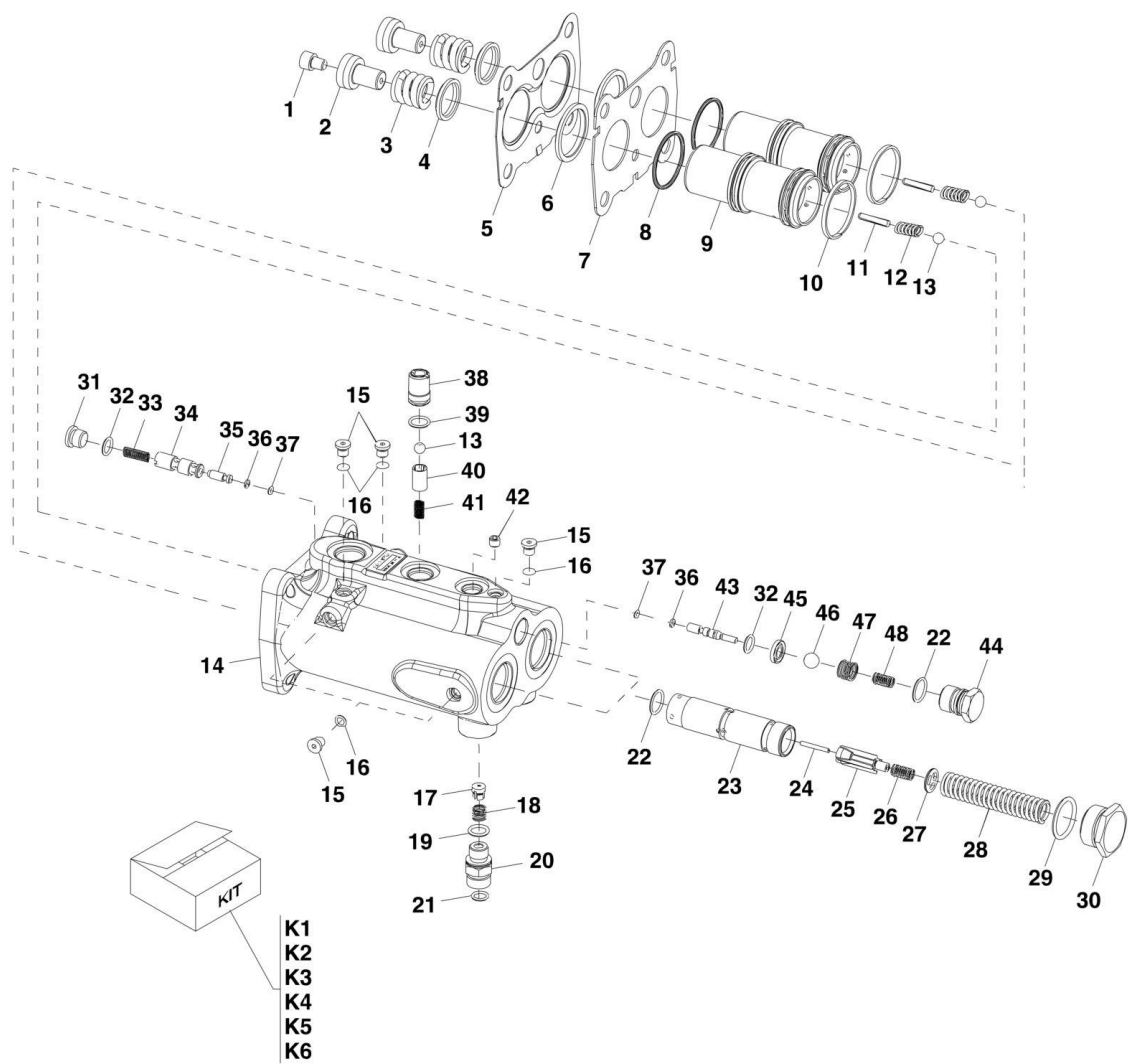
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-36. SWAY CYLINDER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91473188	1	SWAY CYLINDER VALVE, (includes all items)	
1	91474490	2	VALVE CARTRIDGE	
2	91404215	2	O-RING	
3	91404217	1	PISTON	
4	91474491	1	VALVE BODY	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-37. POWER BRAKE VALVE (Prior to SN 0160029241)



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SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-37. POWER BRAKE VALVE (Prior to SN 0160029241)

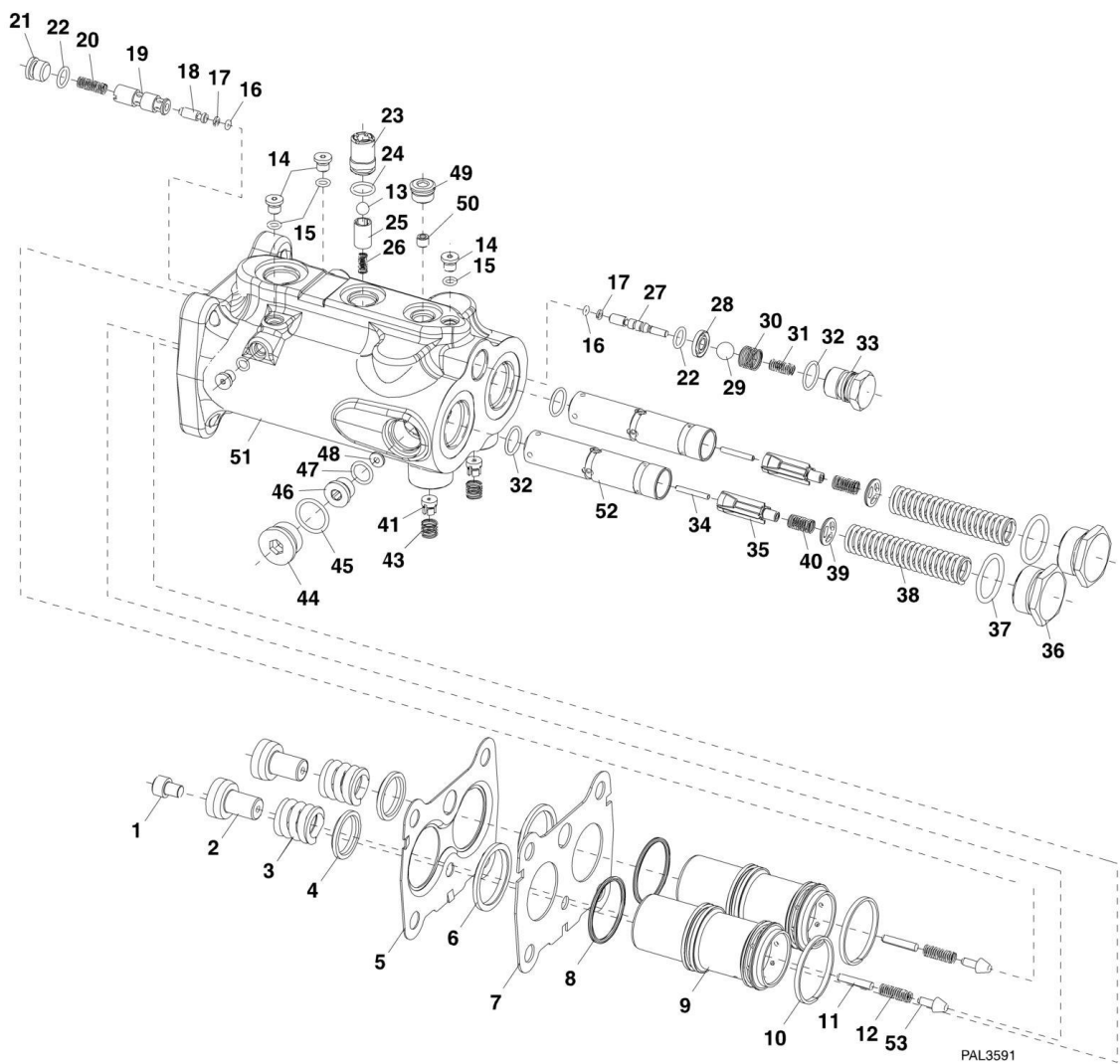
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513072	1	POWER BRAKE VALVE, (includes all items)	D
1	91474454	1	BOLT	
2	91474442	2	PIN	
3	Kit	2	SPRING	
4	91474441	2	WIPER	
5	Kit	1	COVER	
6	91474440	2	WIPER	
7	Kit	1	COVER	
8	91474439	2	QUAD-RING	
9	Kit	2	PISTON	
10	Kit	2	RING	
11	Kit	2	SPRING	
12	Kit	2	SPRING	
13	Kit	2	BALL	
14	91514201	1	HOUSING	
15	91474450	5	PLUG	
16	91474451	5	O-RING	
17	Kit	1	ORIFICE	
18	Kit	1	SPRING	
19	91474461	1	O-RING	
20	91514196	1	FITTING	
21	91474444	1	O-RING	
22	91514197	3	O-RING	
23	91474436	2	SPOOL	
24	Kit	2	PIN	
25	Kit	2	MAKE-UP CHECK	
26	Kit	2	SPRING	
27	Kit	2	SPRING GUIDE	
28	Kit	2	SPRING	
29	91474435	2	O-RING	
30	91474434	2	PLUG	
31	91474458	1	PLUG	
32	91514198	2	O-RING	
33	Kit	1	SPRING	
34	91474456	1	SPOOL	
35	91474455	1	PISTON	
36	91514199	2	BACK-UP RING	
37	91474453	2	O-RING	
38	Kit	1	SEAT	
39	Kit	1	O-RING	
40	Kit	1	RETAINER	
41	Kit	1	SPRING	
42	91514202	1	ORIFICE	
43	91474447	1	PISTON	
44	91514200	1	PLUG	
45	91474446	1	SEAT	
46	Kit	1	BALL	
47	Kit	1	SPRING	
48	Kit	1	SPRING	
K1	91474428	1	PISTON KIT, (includes items 9 thru 11)	

SECTION 9 - HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K2	91474429	1	COVER KIT, (includes items 5 & 7)	
K3	91474430	1	MAKE-UP CHECK KIT, (includes items 24 thru 27)	
K4	91474431	1	INLET CHECK KIT, (includes items 13 & 38 thru 41)	
K5	91474433	1	ORIFICE KIT, (includes items 17 & 18)	
K6	91474432	1	HARDWARE KIT, (includes items 3, 12, 13, 26, 28, 33, 46, 47 & 48)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-38. POWER BRAKE VALVE (SN 0160029241 through 0160040674, Excluding 0160040468 and 0160040672)



SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-38. POWER BRAKE VALVE (SN 0160029241 through 0160040674, Excluding 0160040468 and 0160040672)

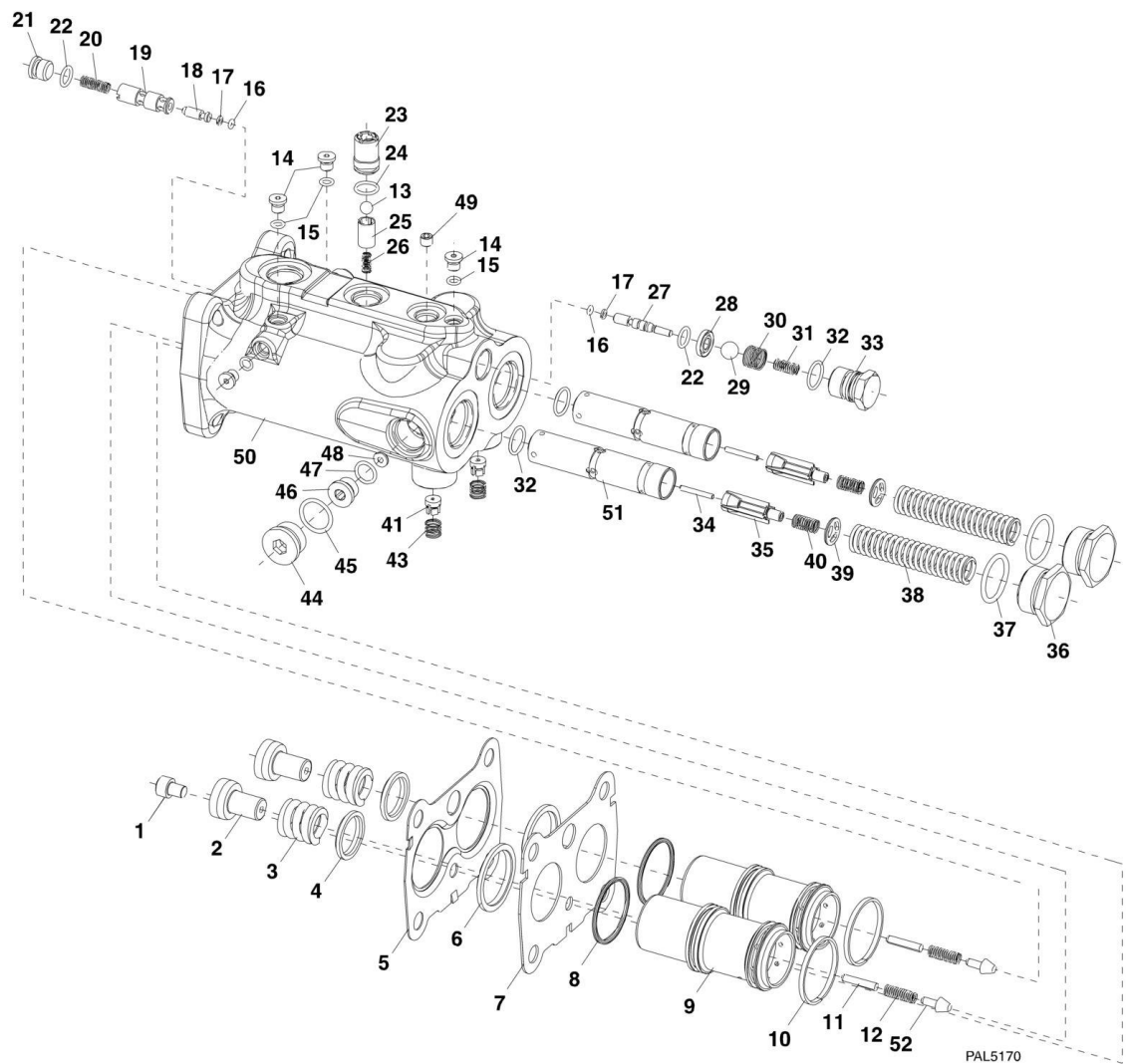
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091959	NLA	POWER BRAKE VALVE, (no longer available, order 1001107090 for replacement or items 1 thru 51 for service)	C
	1001107090	1	POWER BRAKE VALVE, (includes all items)	B
1	91474454	1	SCREW	
2	91474442	2	PIN	
3	70020659	2	SPRING	
4	91474441	2	WIPER	
5	70020660	1	COVER	
6	91474440	2	WIPER	
7	70020661	1	COVER	
8	91474439	2	QUAD RING	
9	70020662	2	PISTON	
10	70020663	2	PISTON RING	
11	70023037	2	PIN	
12	91474438	2	SPRING	
13	91474452	1	BALL	
14	91474450	4	PLUG	
15	91474451	4	O-RING	
16	91474453	2	O-RING	
17	91514199	2	BACK-UP RING	
18	91474455	1	DUMP PISTON	
19	91474456	1	DUMP SPOOL	
20	70020665	1	SPRING	
21	91474458	1	PLUG	
22	91514198	2	O-RING	
23	70020666	1	INLET SEAT	
24	70020667	1	O-RING	
25	70020668	1	RETAINER	
26	70020669	1	SPRING	
27	91474447	1	PISTON	
28	91474446	1	SEAT	
29	70020670	1	BALL	
30	70020671	1	SPRING	
31	70020672	1	SPRING	
32	91514197	3	O-RING	
33	91474443	1	PLUG	
34	70020673	2	NEEDLE ROLLER	
35	70020674	2	MAKE-UP CHECK	
36	91474434	2	PLUG	
37	91474435	2	O-RING	
38	70020675	2	SPRING	
39	70020676	2	SPRING GUIDE	
40	70020677	2	SPRING	
41	70020678	2	ORIFICE	
43	70020679	2	SPRING	
44	91474459	1	PLUG	
45	91474460	1	O-RING	
46	70020680	1	PLUG	
47	70020681	1	O-RING	

SECTION 9 - HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	70020682	1	ORIFICE	
49	70020683	1	PLUG	
50	70020684	1	PLUG	
51	N.S.S.	1	HOUSING	
52	N.S.S.	2	SPOOL	
53	70023038	2	POPPET	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-39. POWER BRAKE VALVE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-39. POWER BRAKE VALVE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

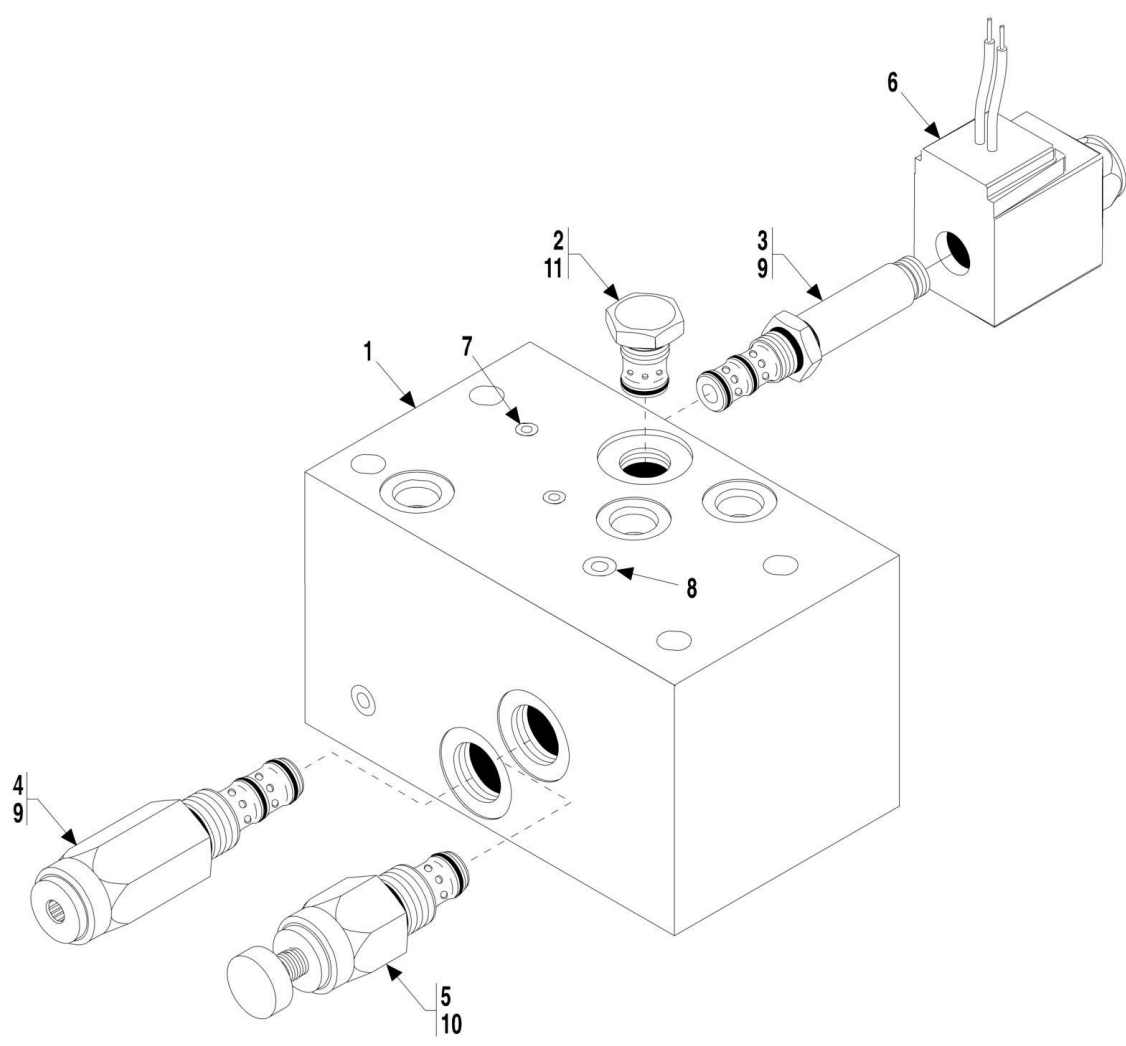
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001106836	1	POWER BRAKE VALVE, (includes all items)	A
1	91474454	1	SCREW	
2	91474442	2	PIN	
3	70020659	2	SPRING	
4	91474441	2	WIPER	
5	70020660	1	COVER	
6	91474440	2	WIPER	
7	70020661	1	COVER	
8	91474439	2	QUAD RING	
9	70020662	2	PISTON	
10	70020663	2	PISTON RING	
11	70023037	2	PIN	
12	91474438	2	SPRING	
13	91474452	1	BALL	
14	91474450	4	PLUG	
15	91474451	4	O-RING	
16	91474453	2	O-RING	
17	91514199	2	BACK-UP RING	
18	91474455	1	DUMP PISTON	
19	91474456	1	DUMP SPOOL	
20	70020665	1	SPRING	
21	91474458	1	PLUG	
22	91514198	2	O-RING	
23	70020666	1	INLET SEAT	
24	70020667	1	O-RING	
25	70020668	1	RETAINER	
26	70020669	1	SPRING	
27	91474447	1	PISTON	
28	91474446	1	SEAT	
29	70020670	1	BALL	
30	70020671	1	SPRING	
31	70020672	1	SPRING	
32	91514197	3	O-RING	
33	91474443	1	PLUG	
34	70020673	2	NEEDLE ROLLER	
35	70020674	2	MAKE-UP CHECK	
36	91474434	2	PLUG	
37	91474435	2	O-RING	
38	70020675	2	SPRING	
39	70020676	2	SPRING GUIDE	
40	70020677	2	SPRING	
41	70020678	2	ORIFICE	
43	70020679	2	SPRING	
44	91474459	1	PLUG	
45	91474460	1	O-RING	
46	70020680	1	PLUG	
47	70020681	1	O-RING	
48	70020682	1	ORIFICE	
49	70023039	1	ORIFICE	

SECTION 9 - HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	N.S.S.	1	HOUSING	
51	N.S.S.	2	SPOOL	
52	70023038	2	POPPET	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-40. PRIORITY VALVE (Prior to SN 0160025316)



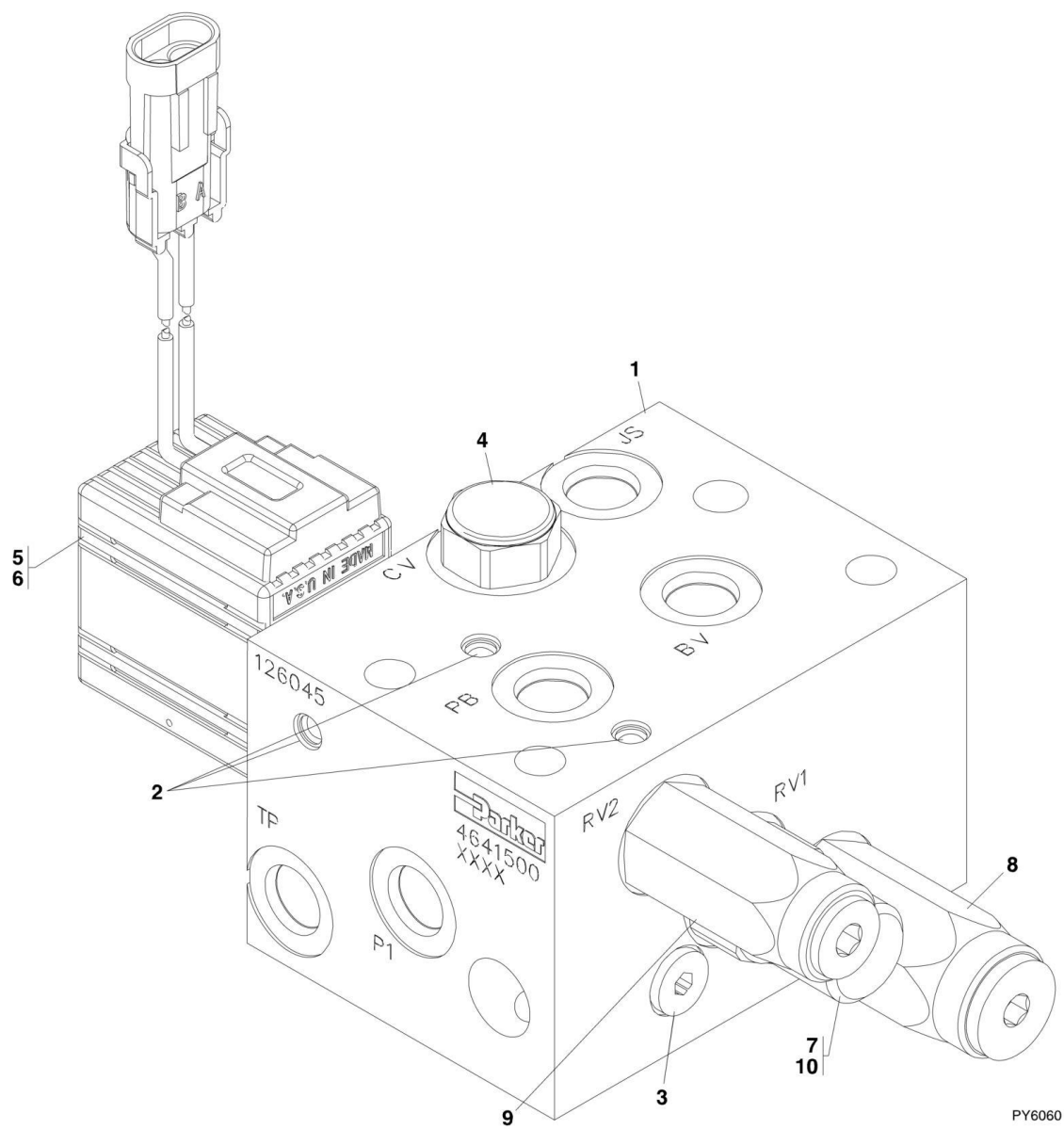
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-40. PRIORITY VALVE (Prior to SN 0160025316)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513161	1	PRIORITY VALVE, (includes all items)	B
1	91514071	1	PUMP MANIFOLD BODY	
2	91474023	1	CHECK VALVE, (torque to 15-20 lb ft), (includes item 11)	
3	7029883	1	SOLENOID, (includes item 9)	
4	91474034	1	PRESSURE REDUCING VALVE, 500PSI, (torque to 30-35 lb-ft), (includes item 9)	
5	91514064	1	RELIEF CARTRIDGE, 1100PSI, (torque to 30-35 lb-ft), (includes item 10)	
6	91474484	1	COIL ASSEMBLY, (torque coil retaining nut to 50-55 lb-in)	
7	91474028	3	PLUG EXPANDER	
8	91514072	3	PLUG EXPANDER	
9	91474027	2	SEAL KIT	
10	91044002	1	SEAL KIT	
11	91474024	1	SEAL KIT	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-41. PRIORITY VALVE (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040672)



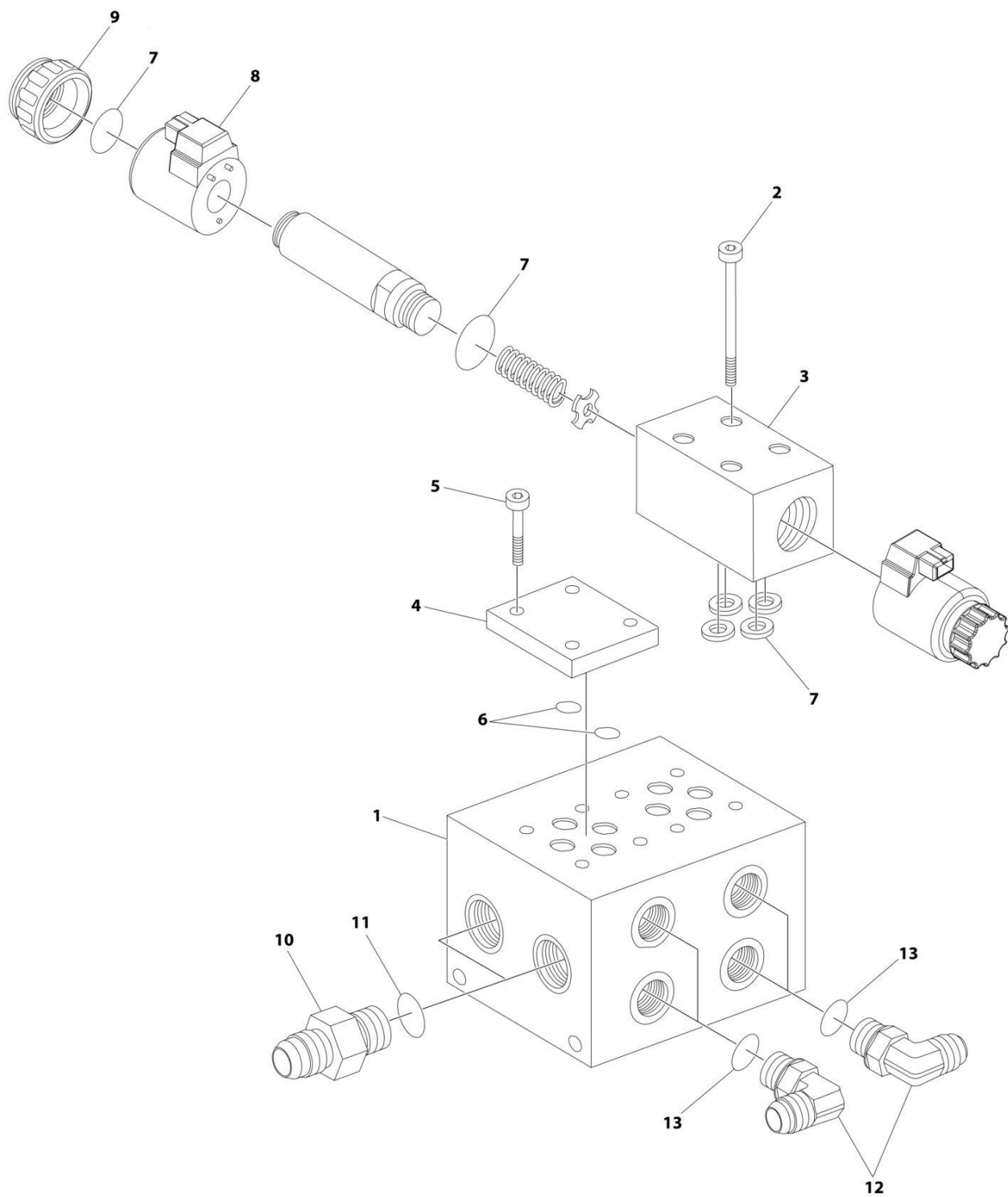
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-41. PRIORITY VALVE (SN 0160025316 through 0160040674, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4641500	1	PRIORITY VALVE, (includes all items)	A
1	70023855	1	VALVE BODY	
2	70023856	3	EXPANDER PLUG, 8mm	
3	2220883	2	PLUG, (torque to 49-54 lb-ft)	
4	91474023	1	CHECK VALVE, (torque to 23-27 lb-ft)	
4	7010769	1	SEAL KIT	
5	7029883	1	SOLENOID VALVE, (torque to 37-41 lb-ft), (torque nut to 5-7 lb-ft)	
5	8032695	1	SEAL KIT	
6	70023857	1	UNICOIL DIODE AND W/P SHROUD	
7	91514064	1	PO RELIEF VALVE, (1100psi), (torque to 37-41 lb-ft)	
7	8032693	1	SEAL KIT	
8	7029885	1	PRESSURE REDUCER VALVE, (450psi), (torque to 30-35 lb-ft)	
8	91474027	1	SEAL KIT	
9	7029887	1	RELIEF VALVE, (550psi), (torque to 12-15 lb-ft)	
9	91474024	1	SEAL KIT	
10	70023858	1	TAMPER PROOF CAP	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-42. STEER SELECT VALVE (Prior to SN 0160040675)



ART_91514001-9-32

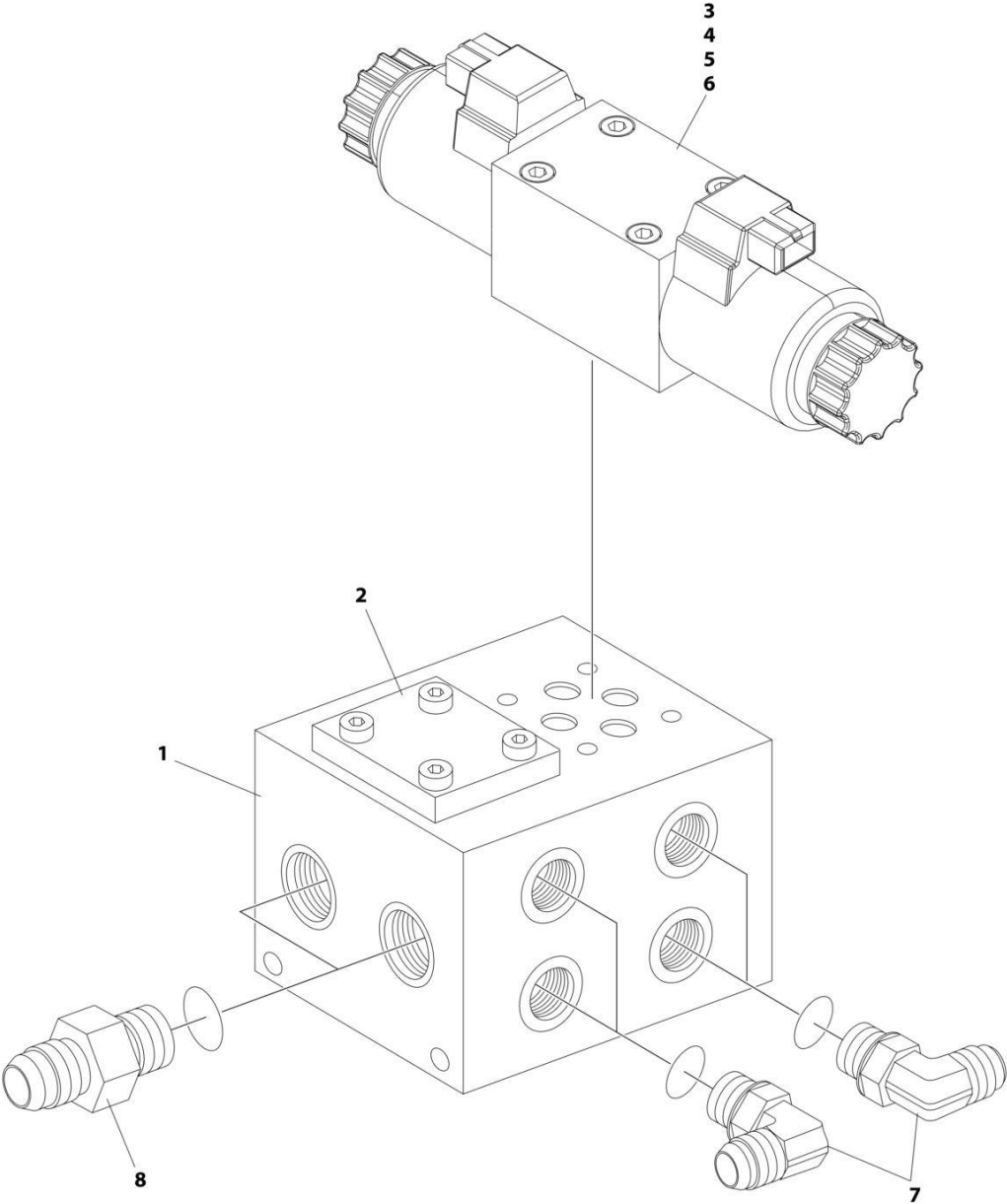
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-42. STEER SELECT VALVE (Prior to SN 0160040675)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475051	1	STEER SELECT VALVE, (includes all items)	C
1	91474400	1	STEERING MANIFOLD	
2	91474401	4	CAPSCREW	
3	91474402	1	STEERING CONTROL, (includes items 7 thru 9)	
4	91474403	1	COVER PLATE	
5	91474404	4	CAPSCREW	
6	91474405	2	O-RING	
7	91474406	1	SEAL KIT	
8	91474407	2	SOLENOID	
9	80334379	2	HAND NUT	
10	2220374	2	CONNECTOR (includes item 11)	
11	88591206	2	O-RING	
12	2220596	4	ADAPTER, 90, (includes items 13)	
13	88591205	4	O-RING	

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FIGURE 9-43. STEER SELECT VALVE (SN 0160040675 to Present)



ART_91514001-9-33

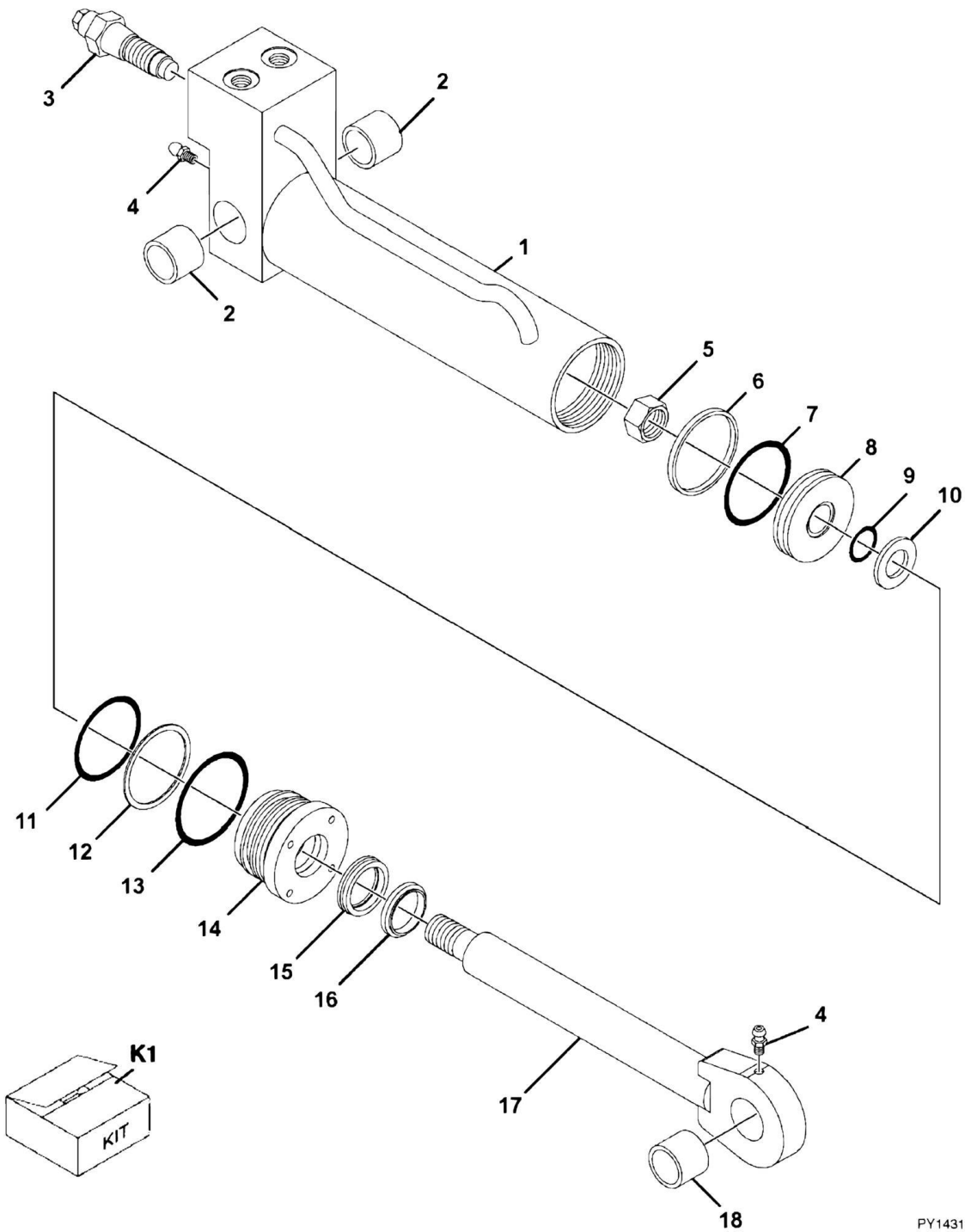
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-43. STEER SELECT VALVE (SN 0160040675 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001016	1	STEER SELECT VALVE, (includes all items)	C
1	7029915	1	STEERING MANIFOLD	
2	7029916	1	COVER PLATE	
3	91474402	1	DIRECTIONAL CONTROL VALVE, (includes items 4 thru 6)	
4	91474407	2	COIL	
5	7029917	2	NUT	
6	7012773	1	SEAL KIT	
7	88662065	4	ELBOW, 90, (includes o-ring)	
8	2220374	2	CONNECTOR, (includes o-ring)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-44. GRAPPLE BUCKET CYLINDER



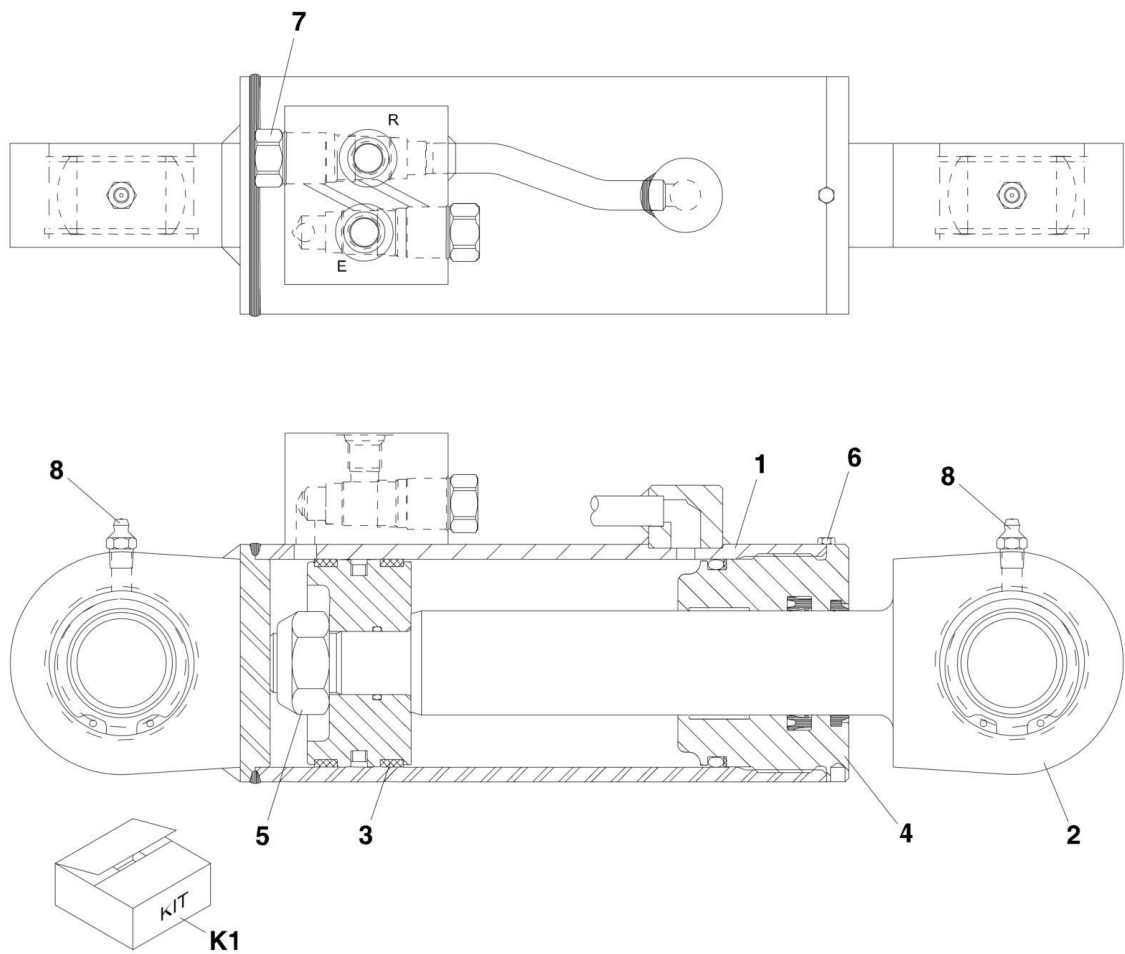
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-44. 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)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-45. SIDE TILT CARRIAGE CYLINDER (Prior to SN 0160064375)



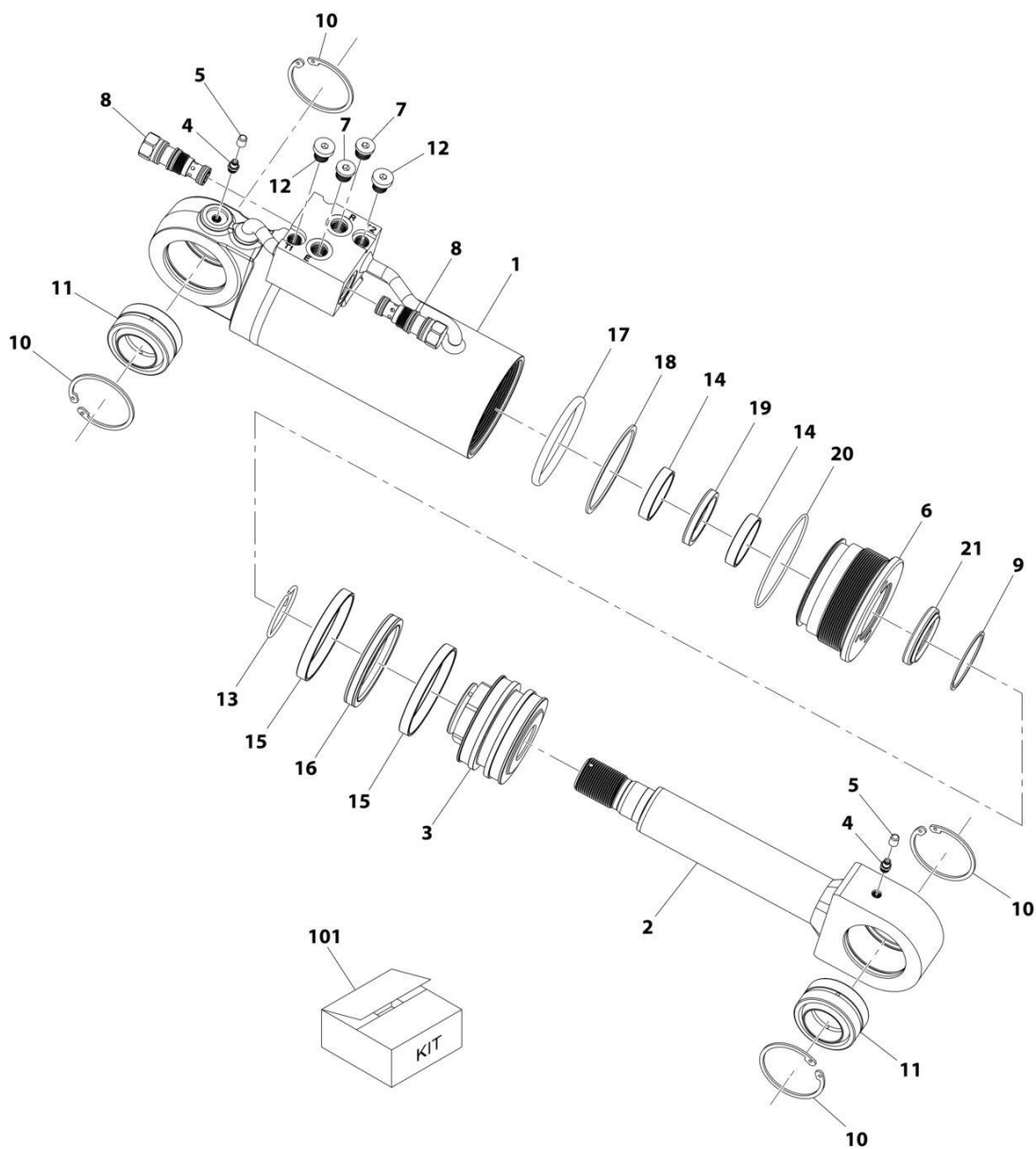
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-45. SIDE TILT CARRIAGE CYLINDER (Prior to SN 0160064375)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090134	1	SIDE TILT CARRIAGE CYLINDER, (includes all items)	C
1	70022038	1	BARREL ASSY	
2	70022039	1	ROD ASSY	
3	70022040	1	PISTON	
3	70022042	1	SEAL KIT	
4	70024002	1	ROD BEARING	
4	70022043	1	SEAL KIT	
5	90022230	1	HEX NUT	
6	7029760	1	CAPSCREW	
7	4640438	2	CHECK VALVE	
7	2900770	1	SEAL KIT	
8	91044080	2	GREASE FITTING	
K1	70022041	1	SEAL KIT, (includes 70022042 & 70022043)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-46. SIDE TILT CARRIAGE CYLINDER (SN 0160064375 to Present)



ART_1001163414-A

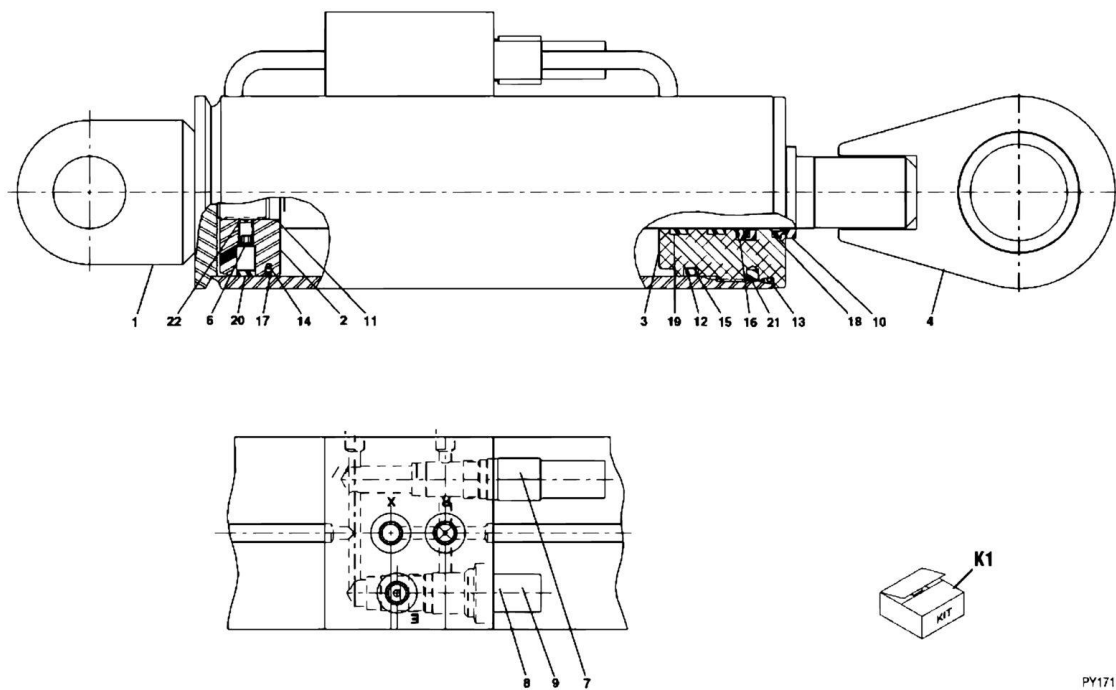
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-46. SIDE TILT CARRIAGE CYLINDER (SN 0160064375 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163414	Ref	SIDE TILT CYLINDER	A
1	70026056	1	BARREL	
2	70026057	1	ROD	
3	70026058	1	HEAD, PISTON	
4	70025606	2	NIPPLE, GREASE	
5	70024020	2	FITTING, GREASE	
6	70003849	1	GLAND	
7	70025959	2	PLUG	
8	70026059	2	VALVE, P.O. CHECK	
9	70002219	1	RING, INTERNAL SNAP	
10	70026060	4	RING, INTERNAL SNAP	
11	70026061	2	BEARING, SPHERICAL	
12	70024262	2	PLUG	
13	70002224	1	RING, LOCKING	
14	Kit	2	RING, ROD BEARING	
15	Kit	2	RING, PISTON BEARING	
16	Kit	1	SEAL, PISTON	
17	Kit	1	O-RING	
18	Kit	1	RING, BACK-UP	
19	Kit	1	SEAL, ROD	
20	Kit	1	O-RING	
21	Kit	1	SEAL, WIPER	
101	70026062	1	KIT, SEAL (includes items 14 thru 21)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-47. 72IN 90, SWING CARRIAGE CYLINDER



PY1711

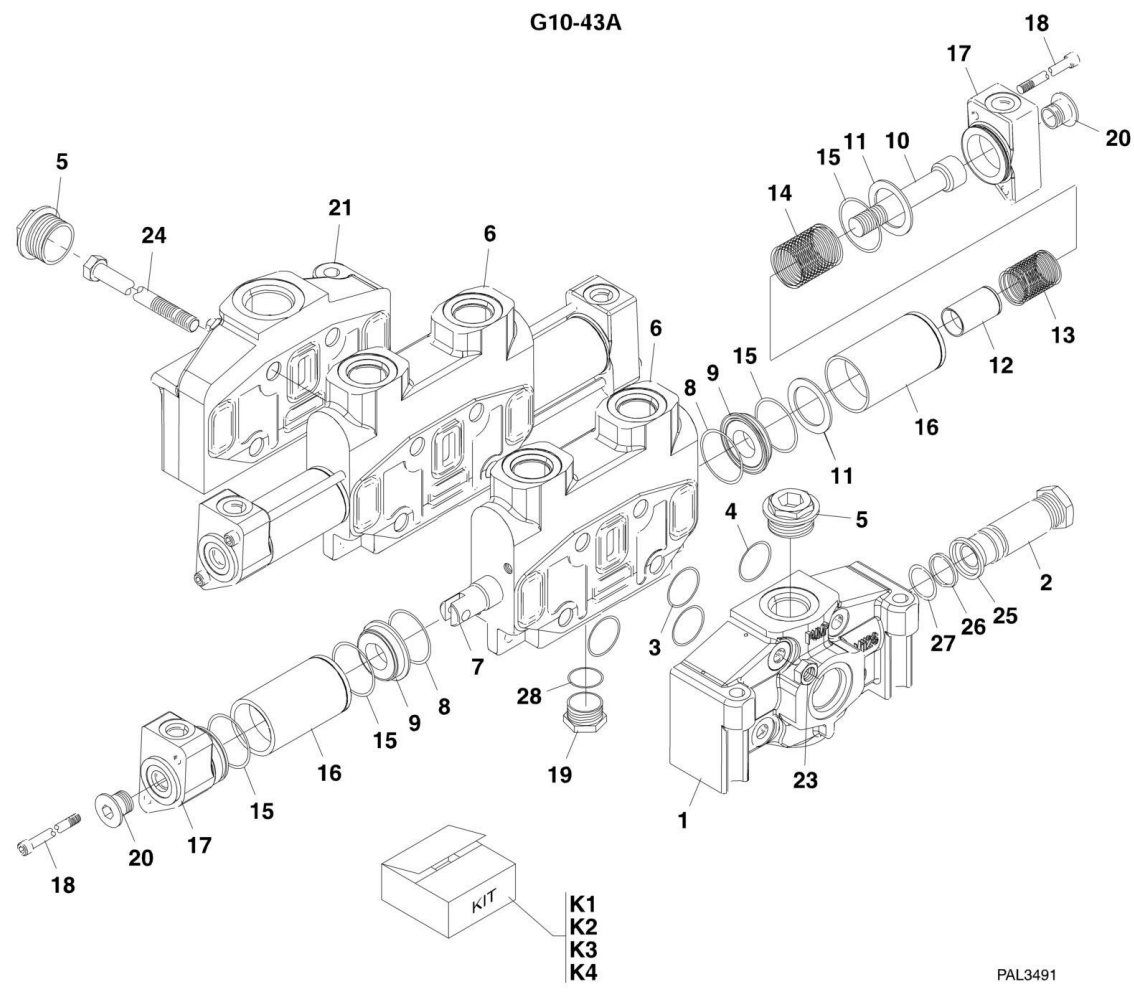
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-47. 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	
11	Kit	1	O-RING	
12	Kit	1	O-RING	
13	Kit	1	O-RING	
14	Kit	1	SQUARE RING	
15	Kit	1	BACK-UP 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 9-48. OUTRIGGER CONTROL VALVE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



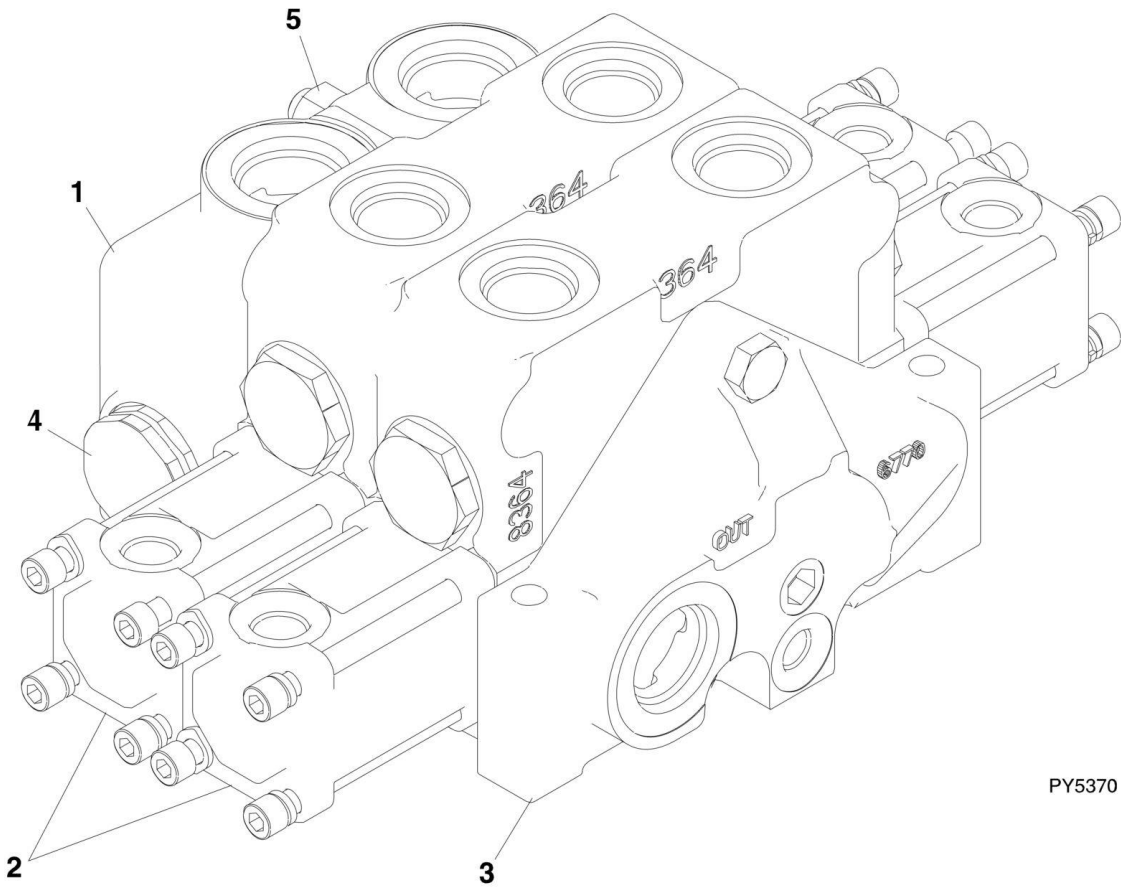
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-48. OUTRIGGER CONTROL VALVE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001067	1	OUTRIGGER CONTROL VALVE	B
1	70021282	1	INLET COVER ASSY, (includes items 2 thru 5)	
2	70021283	1	PLUG	
3	Kit	3	SQUARE SEAL	
4	Kit	9	O-RING	
5	70021284	2	PLUG	
6	70021285	2	VALVE SECTION ASSY, (Outriggers), (includes two of item 3, six of item 4 and items 7 thru 20)	
7	N.S.S.	2	SPOOL	
8	Kit	4	O-RING	
9	70021286	4	SEAL RETAINER	
10	70021287	2	STRIPPER BOLT	
11	70021288	4	WASHER	
12	70021289	2	TUBE	
13	70021290	2	SPRING	
14	70021291	2	SPRING	
15	Kit	8	O-RING	
16	70021292	4	TUBE	
17	70021293	4	END CAP	
18	70021294	8	SOCKET HD CAPSCREW, 4-1/2	
19	70021295	2	PLUG	
20	70021296	4	PLUG	
21	70021297	1	OUTLET COVER ASSY, (includes one of item 5)	
22	70021298	4	STUD ASSY, (includes items 23 & 24)	
23	N.S.S.	8	HEX NUT	
24	N.S.S.	4	STUD	
25	Kit	1	O-RING	
26	Kit	1	BACK-UP RING	
27	Kit	1	GASKET	
28	Kit	1	O-RING	
29	Kit	1	O-RING, (not shown)	
K1	91514220	1	VALVE SECTION SEAL KIT, (includes items 3 & 4)	
K2	70021299	1	R/V SEAL KIT, (includes items 25 thru 27)	
K3	70021300	1	REMOTE SEAL KIT, (includes two of item 8 and four of item 15)	
K4	70021301	1	WORK VALVE SEAL KIT, (includes three of item 3, two of item 8, four of item 15, item 28 & 29)	

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FIGURE 9-49. OUTRIGGER CONTROL VALVE (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5370

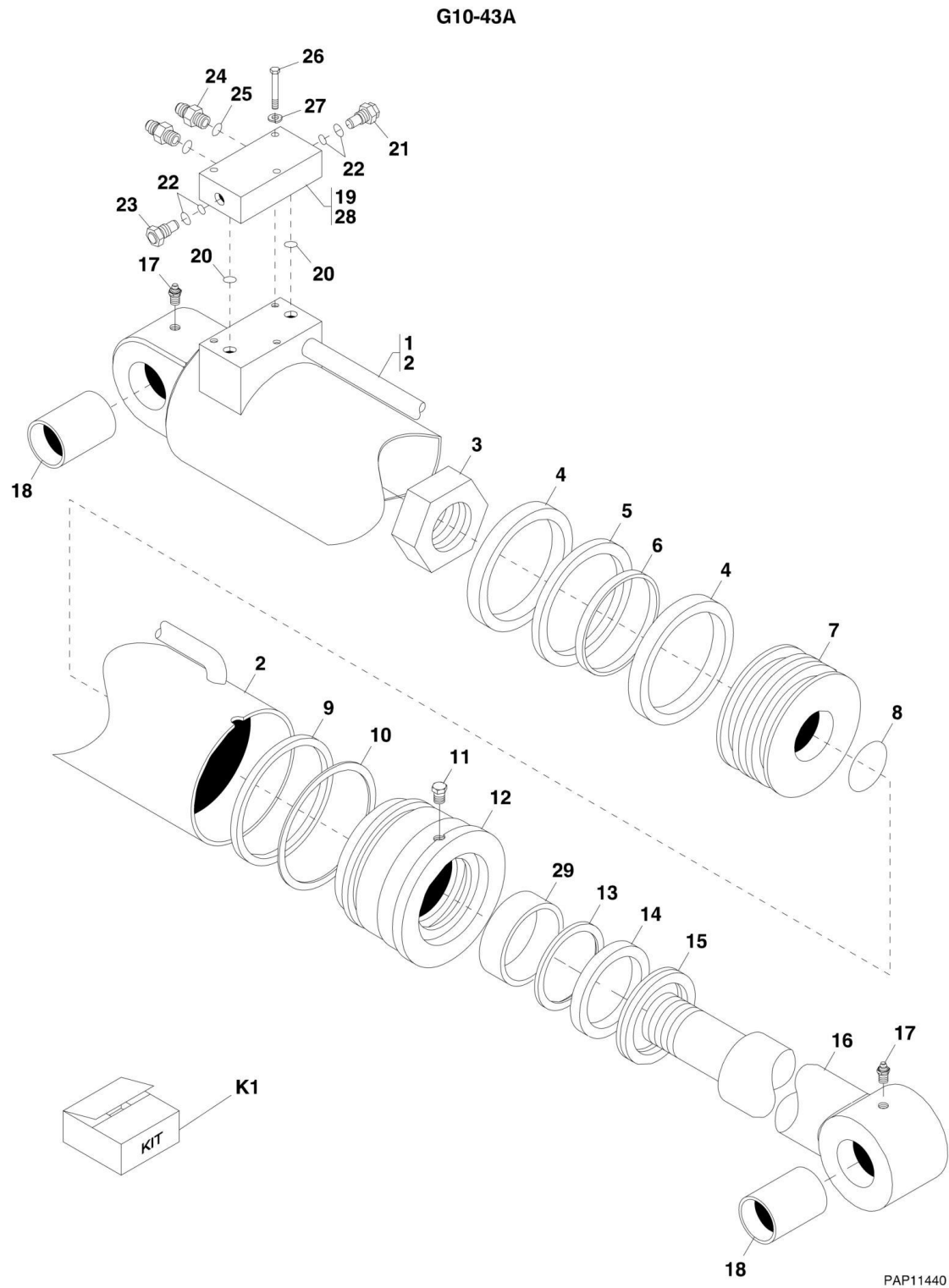
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-49. OUTRIGGER CONTROL VALVE (G10-43A) (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107686	1	OUTRIGGER CONTROL VALVE, (includes all items)	A
1	70023814	1	INLET SECTION	
2	70023815	2	WORK SECTIONS	
3	70023816	1	OUTLET SECTION	
4	70023817	1	MAIN RV PLUG	
5	70023818	1	STUD KIT	

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FIGURE 9-50. OUTRIGGER CYLINDER (Prior to SN 0160039840)



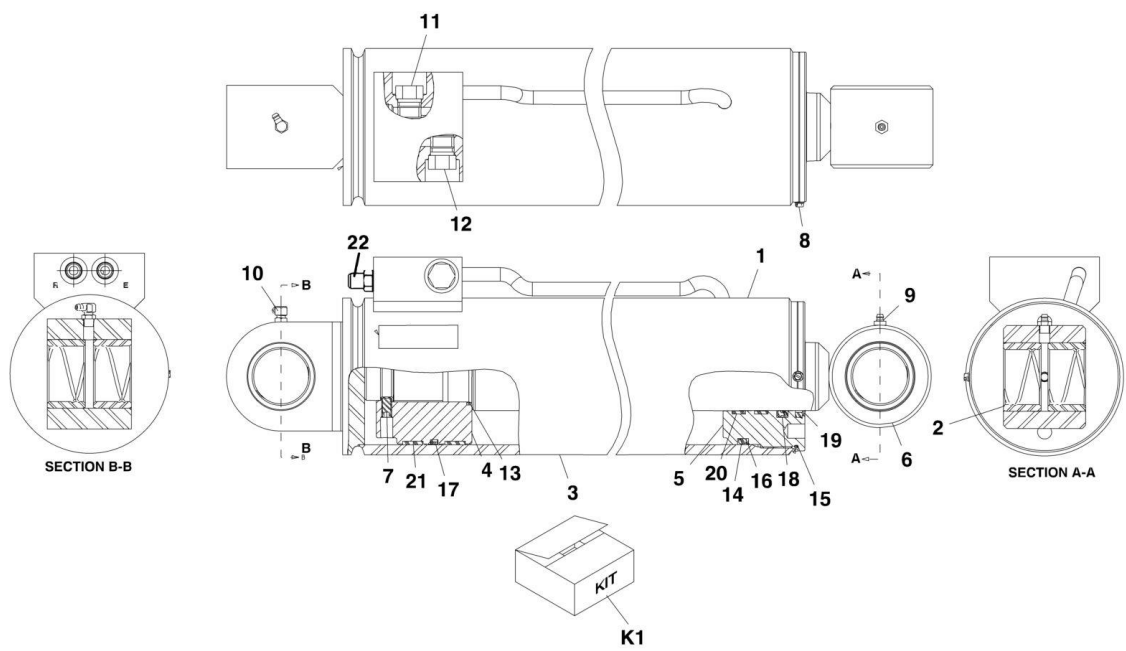
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-50. OUTRIGGER CYLINDER (Prior to SN 0160039840)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001211	1	OUTRIGGER CYLINDER ASSEMBLY	B
1	91343235	1	OUTRIGGER CYLINDER, (includes items 2 thru 18 & 29)	
2	7029968	1	BARREL, (includes item 18)	
3	91014066	1	LOCKNUT, (torque to 1300-1350 lb ft)	
4	Kit	2	WEAR RING	
5	Kit	1	PISTON SEAL	
6	Kit	1	EXPANDER	
7	7029815	1	PISTON	
8	Kit	1	O-RING	
9	Kit	1	O-RING	
10	Kit	1	BACK-UP RING	
11	7029760	1	CAPSCREW	
12	7029816	1	HEAD	
13	Kit	1	STEP SEAL	
14	Kit	1	U-CUP	
15	Kit	1	CANNED WIPER	
16	7029814	1	SHAFT ASSY, (includes item 18)	
17	91044080	2	GREASE FITTING	
18	7029817	2	BUSHING	
19	91163245	1	OUTRIGGER CYLINDER VALVE, (includes items 20 thru 23)	
20	91034118	2	O-RING	
21	91034107	1	THERMAL RELIEF VALVE	
22	91164083	2	VALVE SEAL KIT	
23	91164107	1	CHECK CARTRIDGE	
24	2110606	2	CONNECTOR, (includes item 25)	
25	88591204	2	O-RING	
26	88201040	3	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5, (torque to 30-35 lb ft)	
27	4761600	3	LOCKWASHER, 3/8	
28	91163246	1	ORIFICE, (C2 port)	
29	Kit	1	WEAR RING	
K1	70024217	1	SEAL KIT, (includes items 4, 5, 6, 8, 9, 10, 13, 14, 15 & 29)	

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FIGURE 9-51. OUTRIGGER CYLINDER (G10-43A) (SN 0160039840 to Present)



PAP2620

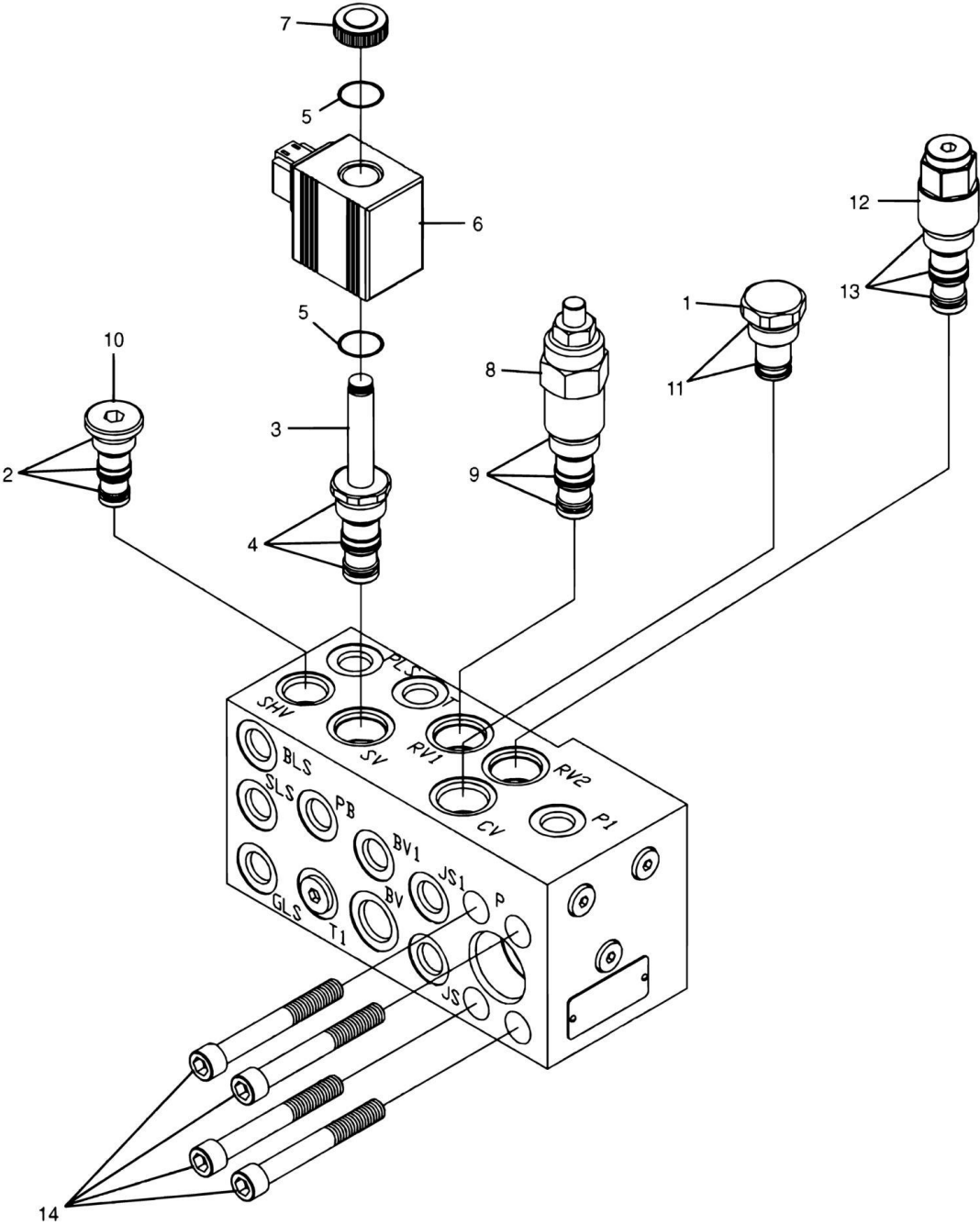
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-51. OUTRIGGER CYLINDER (G10-43A) (SN 0160039840 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001211	1	OUTRIGGER CYLINDER ASSEMBLY	B
1	1001116439	2	OUTRIGGER CYLINDER, (includes items 2 thru 21), (included item quantities are per single cylinder)	
2	70020370	4	BUSHING	
3	70023892	1	TUBE WELDMENT	
4	70023893	1	PISTON, (torque to 2350-2600 lb-ft)	
5	70023894	1	HEAD GLAND, (torque to 300-400 lb-ft)	
6	70023895	1	ROD WELDMENT	
7	8036629	1	SET SCREW, 3/8-16x3/4, (torque to 16-18 lb-ft)	
8	70023896	1	TAPPING SCREW	
9	70023897	1	LUBE FITTING	
10	8520021	1	LUBE FITTING, 90	
11	8036750	1	PO CHECK VALVE, (torque to 30-35 lb-ft)	
12	70023898	1	PO CHECK VALVE WITH THERMAL RELIEF, (torque to 30-35 lb-ft)	
13	Kit	1	O-RING	
14	Kit	1	O-RING	
15	Kit	1	O-RING	
16	Kit	1	BACK-UP RING	
17	Kit	1	PAC SEAL	
18	Kit	1	SEAL	
19	Kit	1	ROD WIPER	
20	Kit	2	WEARBAND	
21	Kit	2	WEARBAND	
22	2220371	2	ADAPTOR, (Includes o-ring)	
K1	70023899	2	SEAL KIT, (includes items 13 thru 21)	

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FIGURE 9-52. HYDRAULIC MANIFOLD (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY6510

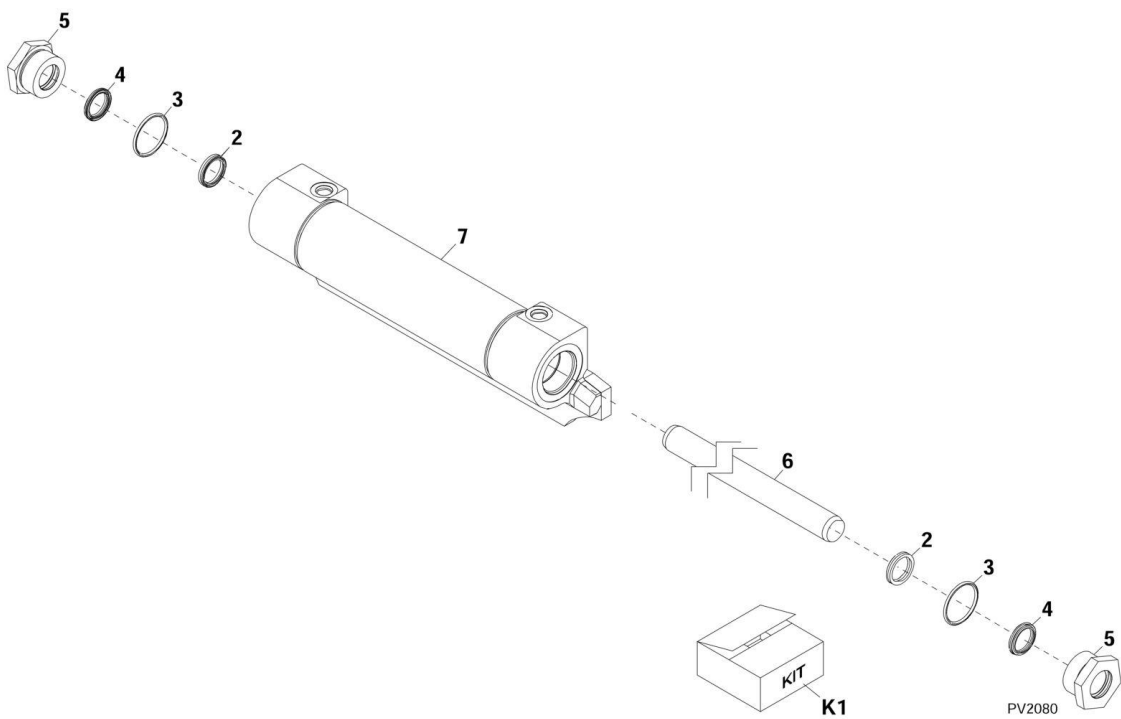
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-52. HYDRAULIC MANIFOLD (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128353	1	HYDRAULIC MANIFOLD, (includes all items)	B
1	70023859	1	SHUTTLE VALVE, (torque to 25-30 lb-ft)	
2	70023860	1	SEAL KIT	
3	70023861	1	SOLENOID VALVE CARTRIDGE, (torque to 32.5-41.3 lb-ft)	
4	70023862	1	SEAL KIT	
5	N.S.S.	2	O-RING	
6	70023863	1	COIL, (includes items 5 & 7)	
7	N.S.S.	1	COIL NUT, (torque to 3.5 lb-ft)	
8	70023864	1	RELIEF VALVE, (torque to 30-35 lb-ft)	
9	70023865	1	SEAL KIT	
10	70023866	1	CHECK VALVE, (torque to 30-35 lb-ft)	
11	70023867	1	SEAL KIT	
12	70023868	1	RELIEF VALVE, (torque to 30-35 lb-ft)	
13	70023865	1	SEAL KIT	
14	70023869	4	SOCKET HD CAPSCREW, 3/8-16X3	

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FIGURE 9-53. 50 IN SIDE SHIFT CARRIAGE CYLINDER (SN 0160037671 to Present)



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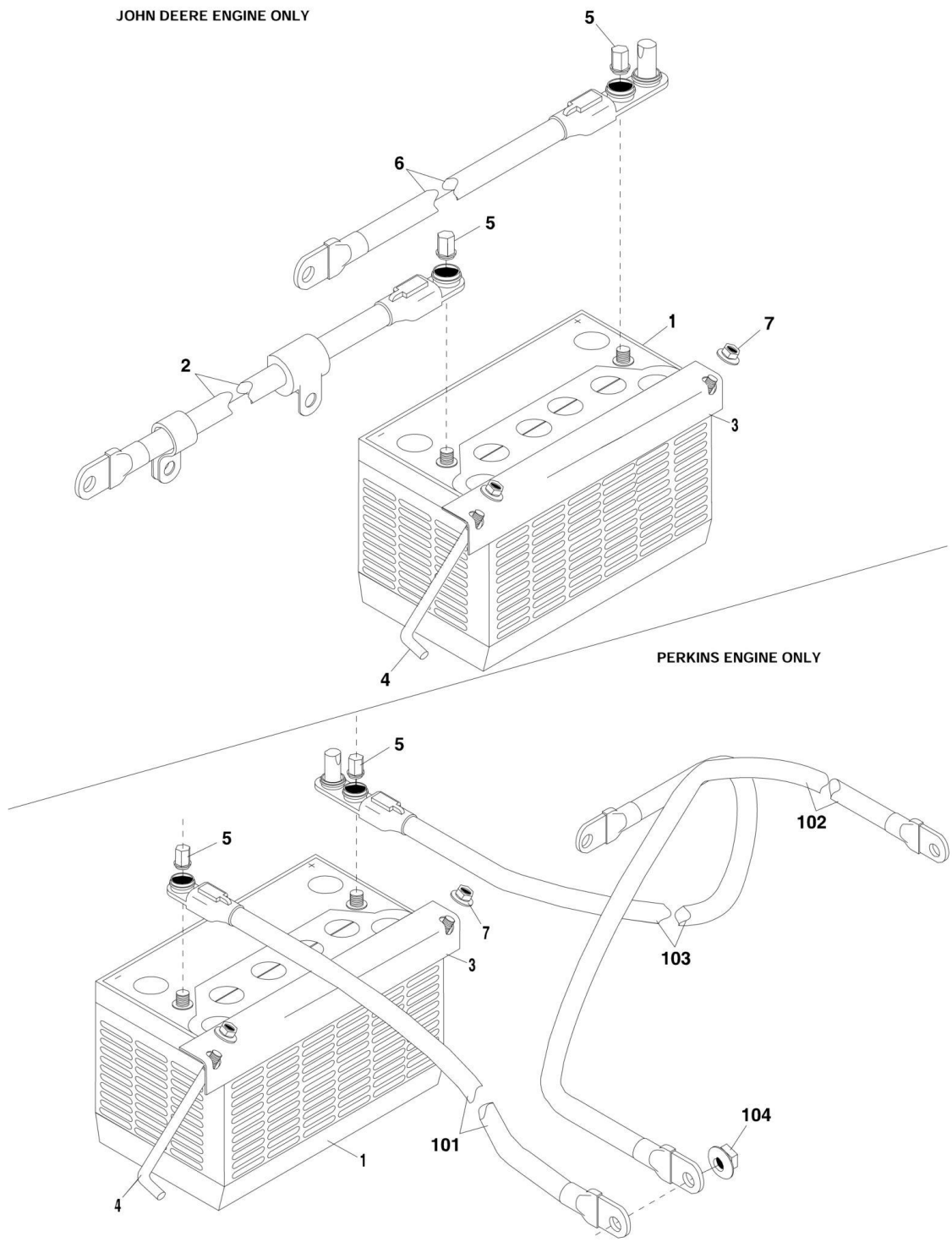
FIGURE 9-53. 50 IN SIDE SHIFT CARRIAGE CYLINDER (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70024539	1	50IN 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 10-1. BATTERY AND CABLES (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



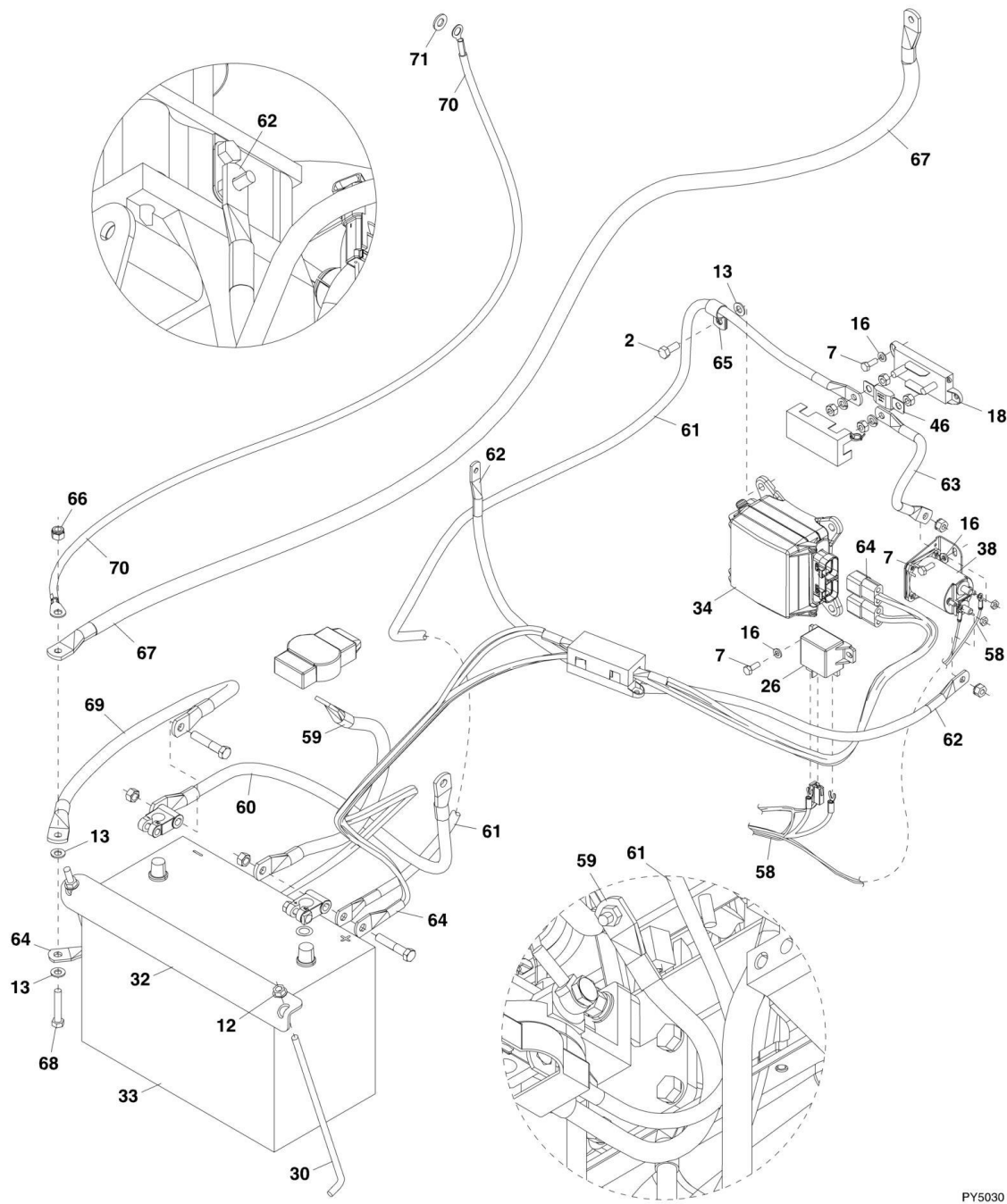
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FIGURE 10-1. BATTERY AND CABLES (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91083483	1	BATTERY, (12 volt, 1000 amps), TOP STUD, 3/8-16 UNC THREAD, BCI GROUP 31	
2	91473065	1	NEGATIVE BATTERY CABLE, (John Deere Engine)	
3	91401281	1	BATTERY HOLD DOWN	
4	91081640	2	HOLD DOWN STUD, 5/16-18	
5	77383567	2	TERMINAL NUT	
6	91473228	1	POSITIVE BATTERY CABLE, (John Deere Engine)	
7	77143006	2	WHIZ-LOCK NUT, 5/16-18	
7	14403416	AR	DI-ELECTRIC GREASE, (add to caps on battery terminals)	
101	1001001520	1	NEGATIVE BATTERY CABLE, (battery to frame), (Perkins Engine) (SN 0160020943 through 0160040674, Excluding 0160040468 and 0160040672)	
102	1001001521	1	NEGATIVE BATTERY CABLE, (frame to starter), (Perkins Engine) (SN 0160020943 through 0160040674, Excluding 0160040468 and 0160040672)	
103	1001001522	1	POSITIVE BATTERY CABLE, (Perkins Engine) (SN 0160020943 through 0160040674, Excluding 0160040468 and 0160040672)	
104	77143015	1	WHIZ-LOCK NUT, 3/8-16, (Perkins Engine) (SN 0160020943 through 0160040674, Excluding 0160040468 and 0160040672)	

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FIGURE 10-2. BATTERY AND CABLES (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5030

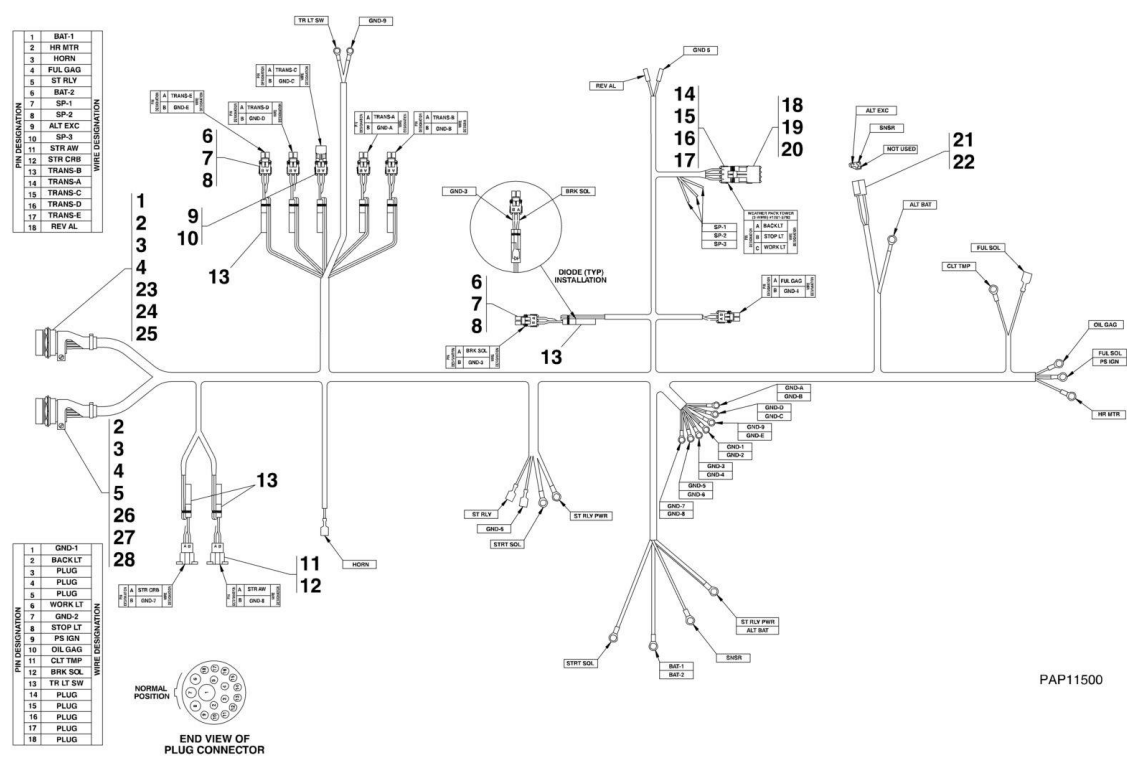
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FIGURE 10-2. BATTERY AND CABLES (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	0641506	4	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
7	0760608	6	HEX HD CAPSCREW, 6X16mm, GR8.8	
12	3311508	2	HEX NUT, 5/16-18	
13	4711500	6	WASHER, 5/16	
16	4811700	6	WASHER, 6mm	
18	8229260	1	FUSE HOLDER	
26	77383377	1	RELAY	
30	91081640	2	BATTERY HOLD DOWN BOLT	
32	91401281	1	BATTERY HOLD DOWN BRACKET	
33	0400075	1	BATTERY, 12 VOLT	
34	1001108433	1	VEC CONTROL MODULE	
34	70024843	4	RELAY, 12V 30 AMP	
38	1001117308	1	RELAY	
46	1001118245	1	FUSE, 250 AMP	
58		Ref	ENGINE HARNESS, (See ENGINE HARNESS - CUMMINS ENGINE for Breakdown)	
59	1001126906	1	POSITIVE BATTERY CABLE	
60	1001126925	1	NEGATIVE BATTERY CABLE	
61	1001126939	1	CABLE	
62	1001126976	1	CABLE	
63	1001126983	1	CABLE, FUSE TO RELAY	
64	1001126984	1	VEC HARNESS	
65	8406101	1	TUBE CLIP	
66	88521205	1	LOCKNUT, 5/16-18	
67	1001115371	1	CABLE, CAB GROUND	
68	0641514	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
69	1001128681	1	CABLE, NEGATIVE TO POD GROUND	
70	1001128696	1	CABLE, ALTERNATOR GROUND	
71	4812000	1	Washer, 10mm	

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FIGURE 10-3. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0193001 through 0193007, SN 016000008 through 0160002051)



PAP11500

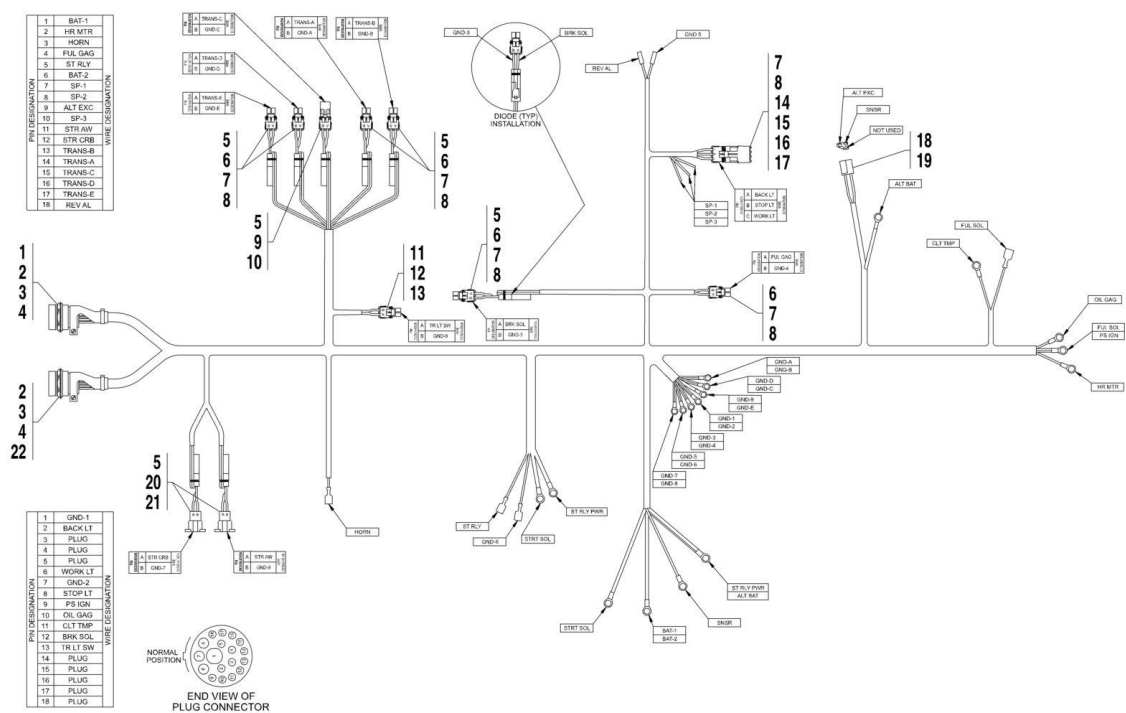
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FIGURE 10-3. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0193001 through 0193007, SN 0160000008 through 0160002051)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91473101	1	ENGINE HARNESS, (includes all items)	H
1	91404337	1	PLUG CONNECTOR	
2	83481286	2	PANEL NUT	
3	83481285	2	PANEL LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	91364010	1	PLUG CONNECTOR	
6	80963057	5	WEATHER PACK CONNECTOR	
7	80963068	5	FEMALE PIN TERMINAL	
8	91364009	5	CABLE SEALS	
9	80963058	1	WEATHER PACK CONNECTOR	
10	80963070	1	CAVITY PLUG	
11	91474468	2	CLIP AND SEAL	
12	91474469	2	DELPHI CONTACT	
13	91363021	8	MOLDED DIODE	
14	80963059	1	WEATHER PACK CONNECTOR	
15	80963068	1	FEMALE PIN TERMINAL	
16	91364009	1	CABLE SEAL	
17	80963067	1	CABLE SEAL	
18	80963060	1	WEATHER PACK CONNECTOR	
19	80963069	1	MALE PIN TERMINAL	
20	91364009	1	CABLE SEALS	
21	83683254	1	3 CONTACT PLUG	
22	90026803	1	CONNECTOR	
23	91143340	1	SOCKET CONTACT, #8	
24	77363347	3	SOCKET CONTACT, #12	
25	77363229	14	SOCKET CONTACT, #16	
26	91143339	1	PIN CONTACT, #8	
27	77363345	3	PIN CONTACT, #12	
28	77363228	6	PIN CONTACT, #16	

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FIGURE 10-4. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160002054 through 0160006663, Excluding 0160006594, 0160006599, 0160006617 and 0160006621)



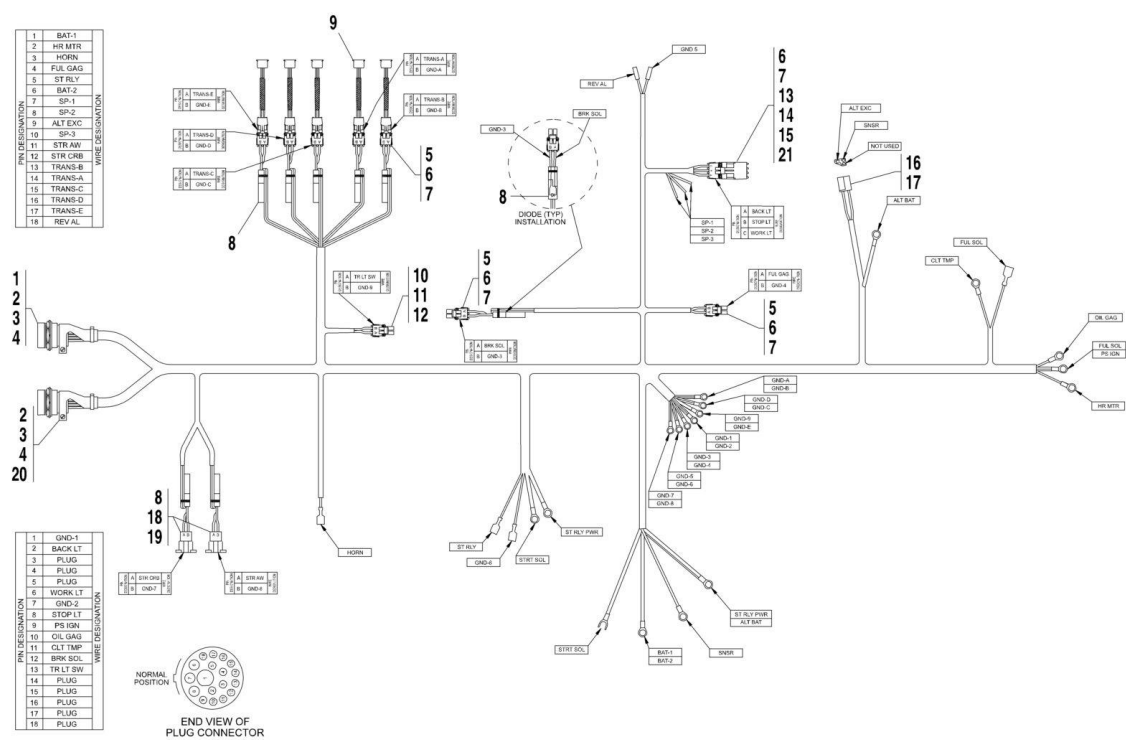
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**FIGURE 10-4. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160002054 through 0160006663,
Excluding 0160006594, 0160006599, 0160006617 and 0160006621)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91473220	1	ENGINE HARNESS, (includes all items)	B
1	91404337	1	PLUG CONNECTOR	
2	83481286	2	NUT	
3	83481285	2	LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	91363021	8	MOLDED DIODE	
6	80963057	6	CONNECTOR	
7	80963068	7	TERMINAL	
8	91364009	8	CABLE SEAL	
9	80963058	1	SHROUD	
10	80963070	1	DUST CAP PLUG	
11	1001117073	1	CONNECTOR	
12	4460693	1	TERMINAL	
13	4460608	1	SEAL	
14	4460459	1	CONNECTOR	
15	80963067	1	CABLE SEAL, BLUE	
16	80963060	1	SHROUD	
17	80963069	1	TERMINAL	
18	83683254	1	3 CONTACT	
19	90026803	1	FEMALE TERMINAL	
20	91474468	2	CONNECTOR	
21	91474469	2	TERMINAL	
22	91364010	1	RECEPTACLE CONNECTOR	

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FIGURE 10-5. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160006686 through 0160011036, Including 0160006594, 0160006599, 0160006617 and 0160006621)



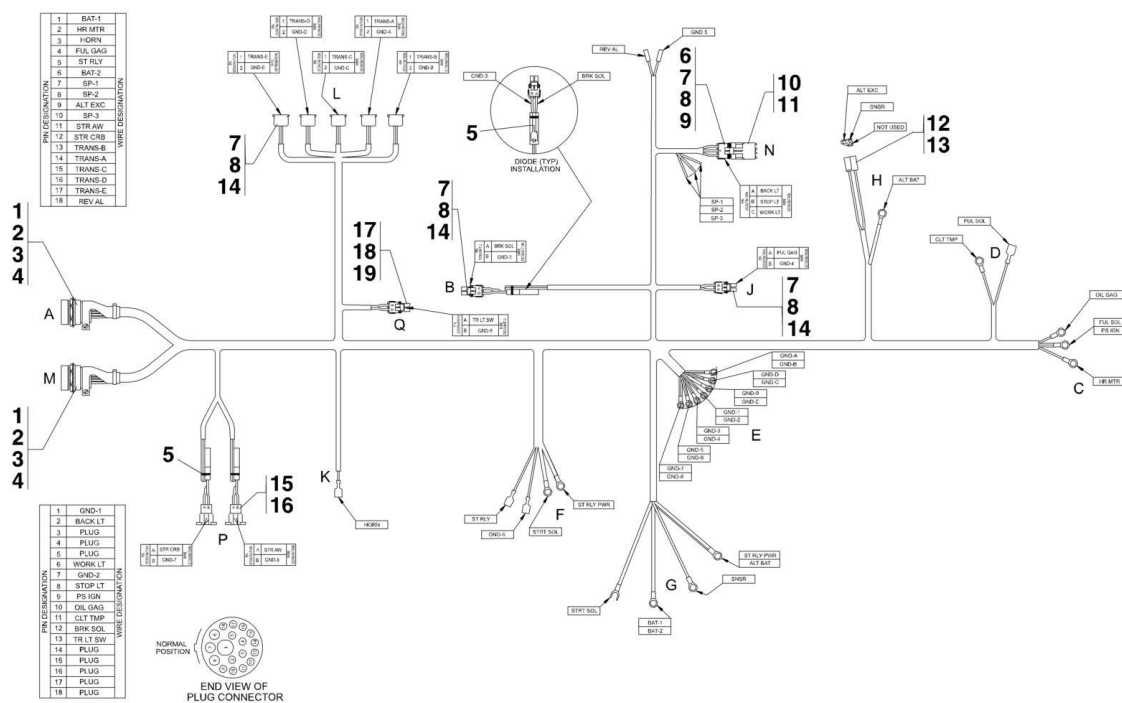
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FIGURE 10-5. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160006686 through 0160011036, Including 0160006594, 0160006599, 0160006617 and 0160006621)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91473229	1	ENGINE HARNESS, (includes all items)	C
1	91404337	1	PLUG CONNECTOR	
2	83481286	2	NUT	
3	83481285	2	LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	80963057	7	CONNECTOR	
6	80963068	8	TERMINAL	
7	91364009	9	CABLE SEAL	
8	91363021	8	MOLDED DIODE	
9	91513287	5	JUMPER WIRES	
10	1001117073	1	CONNECTOR	
11	4460693	1	TERMINAL	
12	4460608	1	SEAL	
13	4460459	1	CONNECTOR	
14	80963060	1	SHROUD	
15	80963069	1	TERMINAL	
16	83683254	1	3 CONTACT	
17	90026803	1	FEMALE TERMINAL	
18	91474468	2	CONNECTOR	
19	91474469	2	TERMINAL	
20	91364010	1	RECEPTACLE CONNECTOR	
21	80963067	1	CABLE SEAL, BLUE	

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FIGURE 10-6. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160011061 through 0160018121)



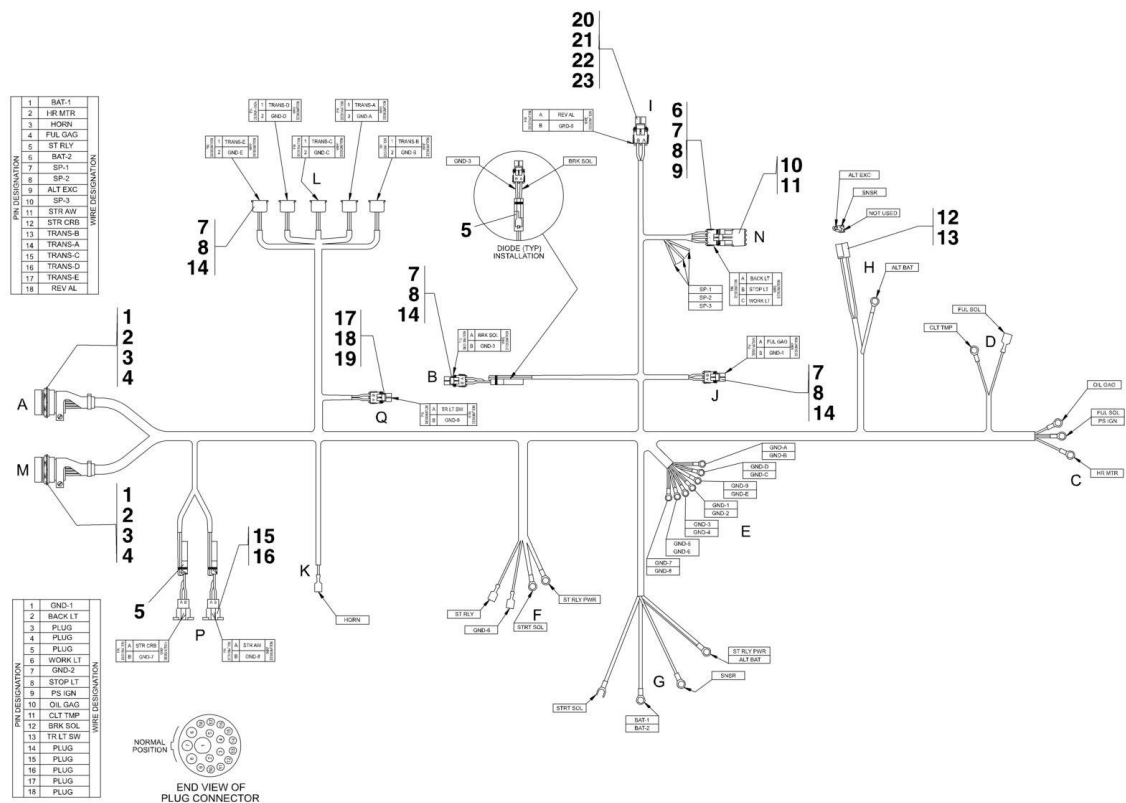
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FIGURE 10-6. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160011061 through 0160018121)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513285	1	ENGINE HARNESS, (includes all items)	D
1	91404337	2	PLUG CONNECTOR	
2	83481286	2	NUT	
3	83481285	2	LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	91363021	2	MOLDED DIODE	
6	80963095	2	CONNECTOR	
7	80963068	8	TERMINAL	
8	91364009	8	SEAL	
9	80963067	1	SEAL	
10	80963060	1	CONNECTOR	
11	80963070	1	PLUG	
12	83683254	1	PLUG	
13	90026803	3	CONNECTOR	
14	80963057	7	CONNECTOR	
15	91474468	2	CONNECTOR	
16	91474469	2	TERMINAL	
17	1001117073	1	CONNECTOR	
18	4460693	1	TERMINAL	
19	4460608	1	SEAL	

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FIGURE 10-7. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160018152 through 0160020933, Excluding 0160020803, 0160020823 and 0160020824)



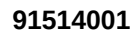
SECTION 10 - ELECTRICAL

**FIGURE 10-7. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160018152 through 0160020933,
Excluding 0160020803, 0160020823 and 0160020824)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923403	1	ENGINE HARNESS, (includes all items)	B
1	91404337	2	PLUG CONNECTOR	
2	83481286	2	NUT	
3	83481285	2	LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	91363021	2	MOLDED DIODE	
6	80963095	2	CONNECTOR	
7	80963068	8	TERMINAL	
8	91364009	8	SEAL	
9	80963067	1	SEAL	
10	80963060	1	CONNECTOR	
11	80963070	1	PLUG	
12	83683254	1	PLUG	
13	90026803	3	CONNECTOR	
14	80963057	7	CONNECTOR	
15	91474468	2	CONNECTOR	
16	91474469	2	TERMINAL	
17	1001117073	1	CONNECTOR	
18	4460693	1	TERMINAL	
19	4460608	1	SEAL	
20	1001117021	1	CONNECTOR	
21	7029755	1	SECONDARY LOCK	
22	4460746	1	TERMINAL	
23	4460789	1	SEAL	

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G9-43A/G10-43A



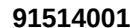
SECTION 10 - ELECTRICAL

FIGURE 10-8. ENGINE HARNESS - JOHN DEERE ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

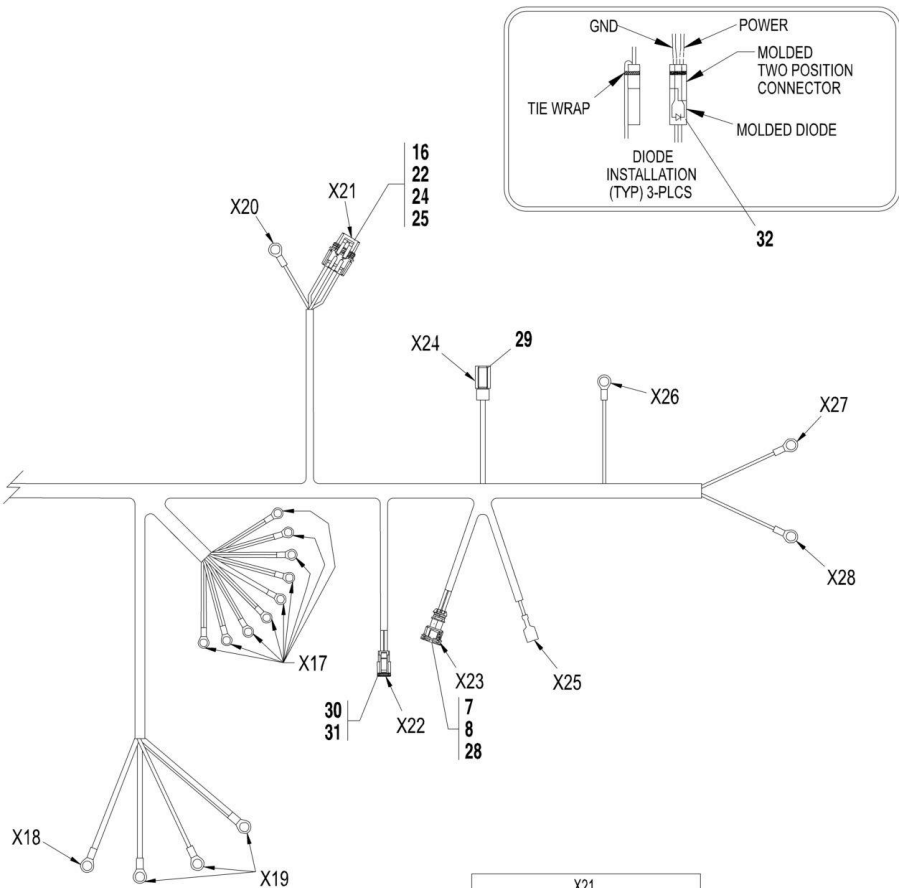
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001516	1	ENGINE HARNESS, (includes all items)	B
1	91404337	1	PLUG CONNECTOR	
2	83481286	2	NUT	
3	83481285	2	LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	80963057	2	CONNECTOR	
6	80963068	3	TERMINAL	
7	91364009	4	CABLE SEAL	
8	91363021	3	MOLDED DIODE	
9	7026425	1	PLUG CONNECTOR	
10	80604016	1	WEDGELOCK	
11	1001117021	1	CONNECTOR	
12	4460746	1	TERMINAL	
13	4460459	1	CONNECTOR	
14	80963060	1	SHROUD	
15	80963069	1	TERMINAL	
16	83683254	1	3 CONTACT	
17	90026803	1	FEMALE TERMINAL	
18	91474468	2	CONNECTOR	
19	91474469	2	TERMINAL	
20	91364010	1	RECEPTACLE CONN	
21	80963067	1	CABLE SEAL, BLUE	
22	80963066	1	SEAL	
23	7029755	1	SECONDARY LOCK	

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G9-43A/G10-43A



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X17					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	GND-1	BLACK	8 AWG	GXL	X2
2	GND-3	BLACK	16 AWG	GXL	X12
3	GND-4	BLACK	16 AWG	GXL	X13
4	GND-5	BLACK	16 AWG	GXL	X16
5	GND-6	BLACK	16 AWG	GXL	X10
6	GND-7	BLACK	16 AWG	GXL	X3
7	GND-8	BLACK	16 AWG	GXL	X4
8	GND-9	BLACK	16 AWG	GXL	X5
9	GND-10	BLACK	16 AWG	GXL	X5
10	GND-11	BLACK	16 AWG	GXL	X5
11	GND-12	BLACK	16 AWG	GXL	X5
12	GND-13	BLACK	16 AWG	GXL	X5
13	GND-14	BLACK	16 AWG	GXL	X23
14	GND-15	BLACK	16 AWG	GXL	X22
15	GND-2	BLACK	12 AWG	GXL	X2
16	GND-16	BLACK	16 AWG	GXL	X15

X18					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	START SOL	RED/VIL	10 AWG	GXL	X9

X19					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	ALT BAT 1	RED/WHIT	8 AWG	GXL	X28
2	ALT BAT 2	RED/WHIT	8 AWG	GXL	X28
3	BAT-1	RED	8 AWG	GXL	X1
4	BAT-2	RED	12 AWG	GXL	X1
5	ST RLY PWR	ORANGE	10 AWG	GXL	X9
6	GP PWR	RED/GRN	8 AWG	GXL	X11

X20					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	OK GAG	BLU/BRN	16 AWG	GXL	X2

X21					
CONN POS	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
A	HR MTR	BLU/RED	16 AWG	SXL	X1
B	PS IGN	ORN/DGN	16 AWG	SXL	SP1
C	GP SW	WHT/BLU	16 AWG	SXL	X2

X22					
CONN POS	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	FUEL PUMP	WHT/VIL	16 AWG	GXL	X8
2	GND-15	BLACK	16 AWG	GXL	X17

X23					
CONN POS	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	PS IGN	ORN/DGN	16 AWG	GXL	X25
2	GND-14	BLACK	16 AWG	GXL	X17

X24					
CONN POS	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	GLOW PLG	ORN/RED	8 AWG	GXL	X10

X25					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	PS IGN	ORN/DGN	16 AWG	GXL	SP1
2	PS IGN	ORN/DGN	16 AWG	GXL	X23

X26					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	CLT TMP	BLU/VIL	16 AWG	GXL	X2

X27					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	ALT EXC	VIL/RED	16 AWG	GXL	X1

X28					
TERM #	WIRE DESIGNATION	COLOR	GAUGE	TYPE	TO
1	ALT BAT 1	RED/WHIT	8 AWG	GXL	X19
2	ALT BAT 2	RED/WHIT	8 AWG	GXL	X19

PAL1041

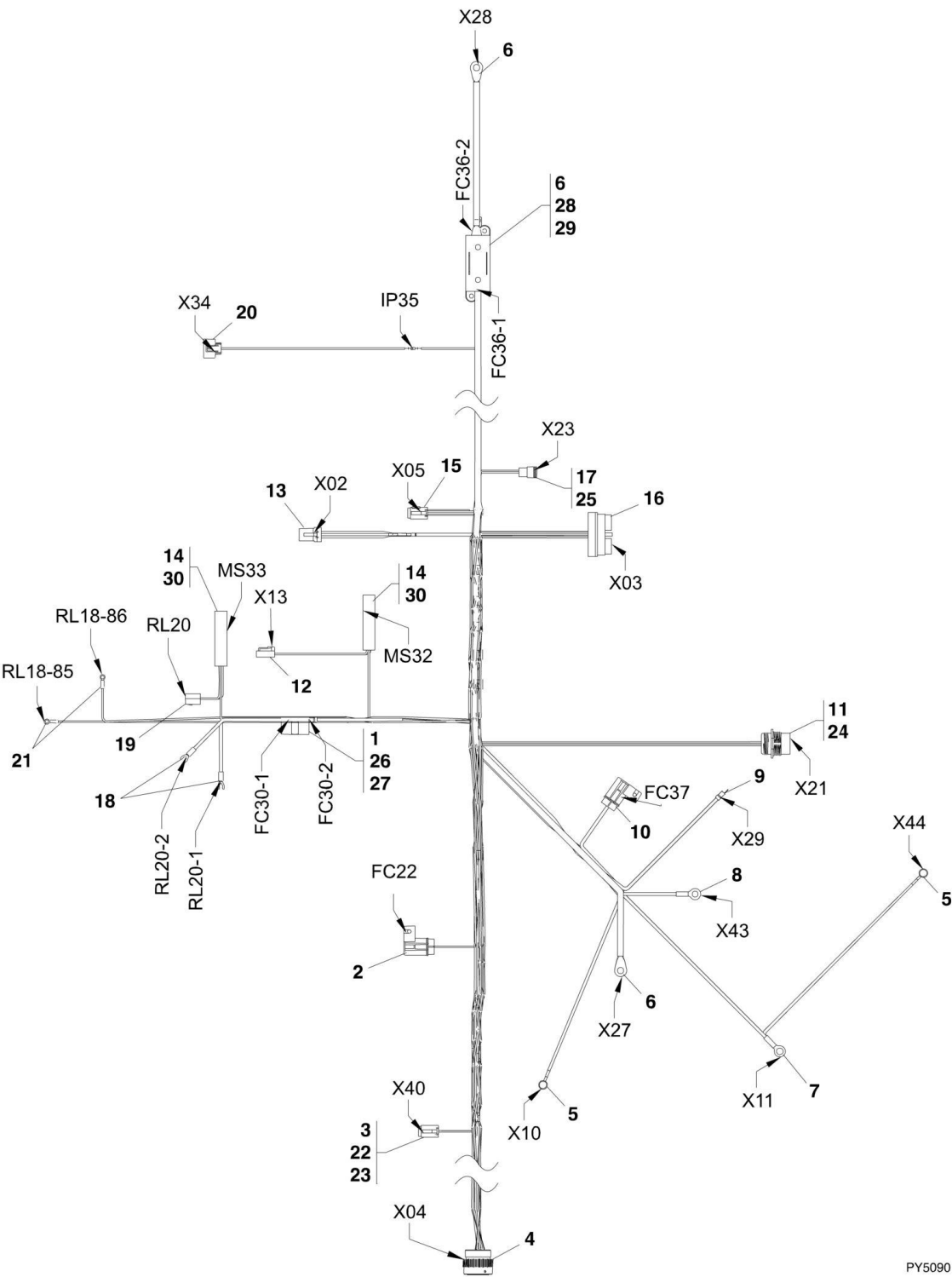
SECTION 10 - ELECTRICAL

FIGURE 10-9. ENGINE HARNESS - PERKINS ENGINE (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001510	1	PERKINS ENGINE HARNESS, (includes all items)	D
1	91404337	1	CONNECTOR	
2	83481286	2	NUT	
3	83481285	2	LOCKWASHER	
4	91474467	2	STRAIN RELIEF	
5	91364010	1	CONNECTOR	
6	4460466	1	PLUG	
7	1001116983	3	CONNECTOR	
8	1001116706	3	TERMINAL	
9	1001117022	1	CONNECTOR ASSY, (includes 7.5 amp fuse)	
9	1001117019	1	CONNECTOR	
10	1001116733	2	TERMINAL	
11	7029771	1	COVER	
12	1001117057	1	CONNECTOR	
13	3740080	1	RELAY	
14	80963057	2	CONNECTOR	
15	80963068	3	TERMINAL	
16	80963065	5	SEAL	
17	80963061	1	CONNECTOR	
18	7026425	1	CONNECTOR	
19	80604016	1	LOCK CONNECTOR	
20	1001117021	1	CONNECTOR	
21	7029755	1	TPA	
22	4460746	2	TERMINAL	
24	1001117020	1	CONNECTOR	
25	7029775	1	TPA	
28	4461006	3	SEAL	
29	1001116707	1	CONNECTOR	
30	7026408	1	CONNECTOR	
31	80684018	1	WEDGELOCK	
32	91363021	1	DIODE	

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FIGURE 10-10. ENGINE HARNESS - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5090

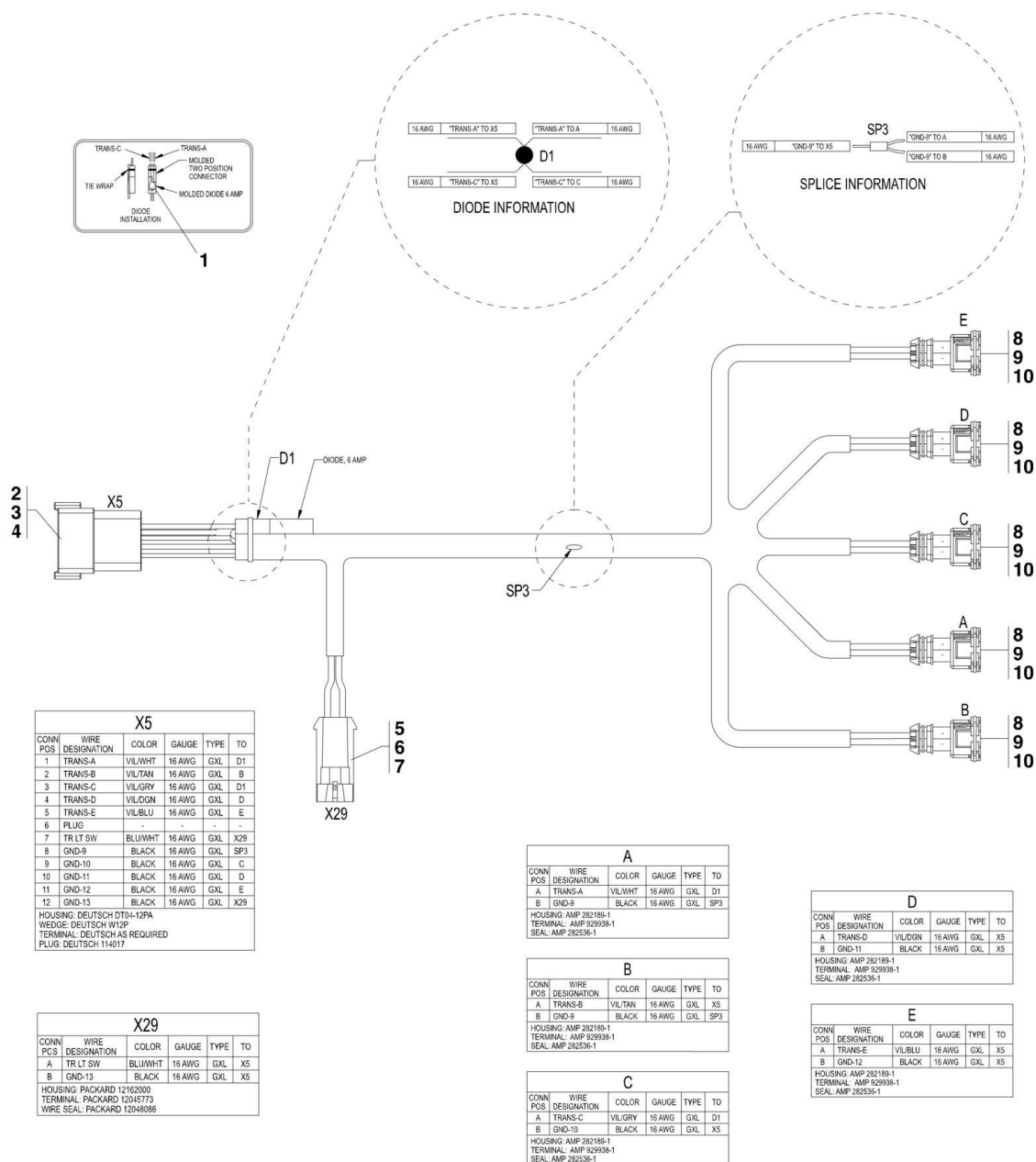
SECTION 10 - ELECTRICAL

FIGURE 10-10. ENGINE HARNESS - CUMMINS ENGINE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125280	1	CUMMINS ENGINE HARNESS, (includes all items)	D
1	4460142	2	TERMINAL RING	
2	1001117074	1	METRI-PACK CONNECTOR	
3	4460884	1	TERMINAL	
4	1001116962	1	CONNECTOR	
5	4460019	2	LUG TERMINAL	
6	4460443	4	TERMINAL	
7	8220164	1	RING TERMINAL	
8	8220045	1	RING TERMINAL	
9	4460806	1	FORK TERMINAL	
10	1001117070	1	METRI-PACK CONNECTOR	
11	1001112612	1	CONNECTOR	
12	4460891	1	TERMINAL	
13	1001116810	1	CONNECTOR	
14	91363021	1	MOLDED DIODE	
15	4460933	1	TERMINAL	
16	1001116831	1	CONNECTOR	
17	4461095	1	PLUG TERMINAL	
18	1001117111	2	FORK TERMINAL	
19	4460994	1	HOUSING TERMINAL	
20	1001125748	1	TERMINAL	
21	4460247	2	RING TERMINAL	
22	4460932	1	MATING CONNECTOR	
23	4460466	1	TERMINAL	
24	1001106736	1	DUST CAP WITH LANYARD	
25	4461070	1	MATING CONNECTOR	
26	1001125389	1	FUSE HOLDER	
27	1001126833	1	FUSE, 80 AMP	
28	8229260	1	FUSE HOLDER	
29	1001095336	1	FUSE, 150 AMP	
30	91363021	2	MOLDED DIODE	

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FIGURE 10-11. TRANSMISSION HARNESS - DANA TRANSMISSION (SN 0160020943 through 0160040675, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)



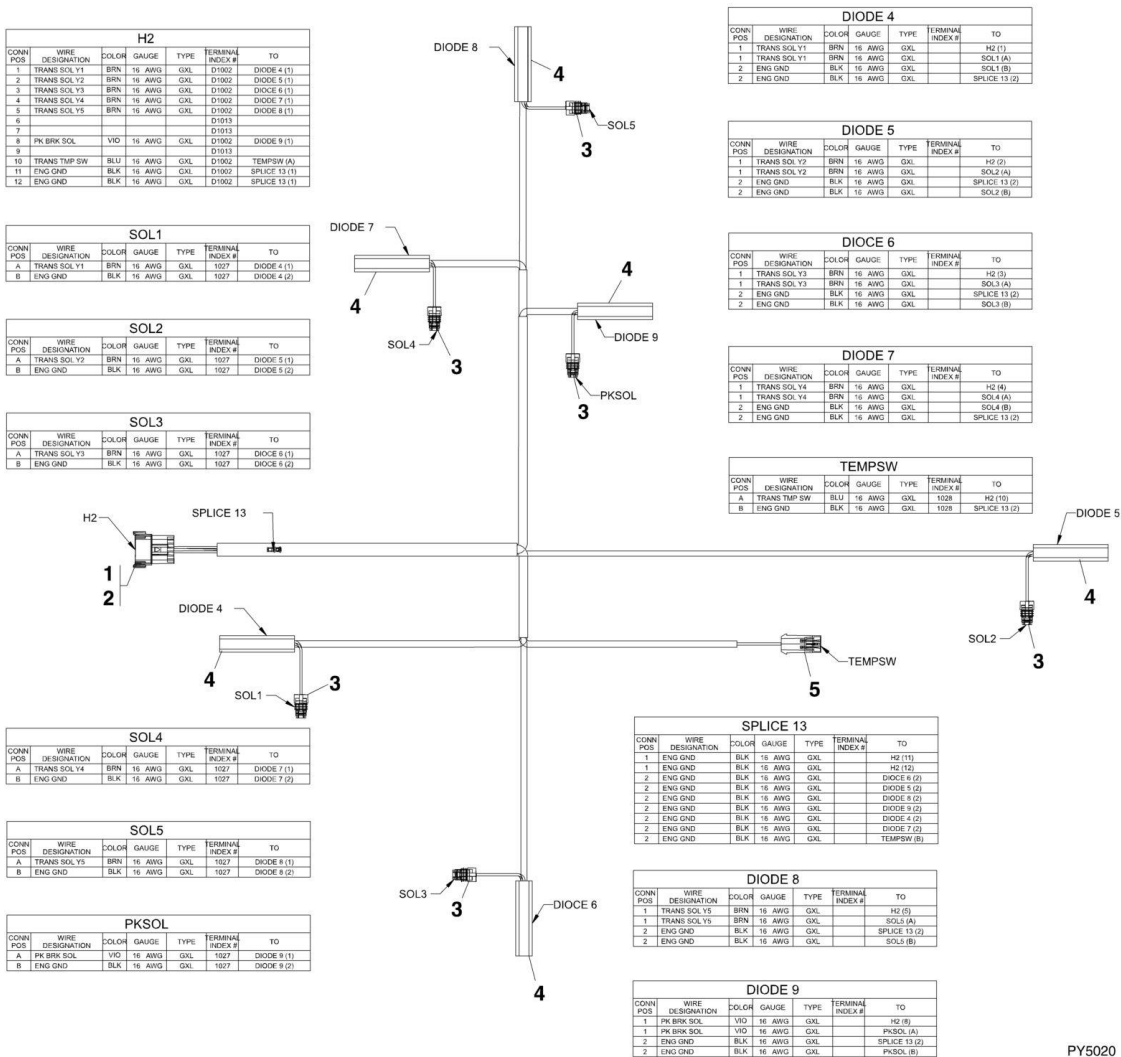
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FIGURE 10-11. TRANSMISSION HARNESS - DANA TRANSMISSION (SN 0160020943 through 0160040675, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001511	1	DANA TRANSMISSION HARNESS, (includes all items)	
1	91363021	1	MOLDED DIODE, 6AMP	
2	4460532	1	CONNECTOR	
3	80363179	1	WEDGELOCK	
4	4460466	1	PLUG	
5	1001117073	1	CONNECTOR	
6	4460693	1	TERMINAL	
7	4460608	1	SEAL	
8	1001116983	5	CONNECTOR	
9	70022608	5	TERMINAL	
10	70022609	5	SEAL	

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FIGURE 10-12. TRANSMISSION HARNESS - ZF (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5020

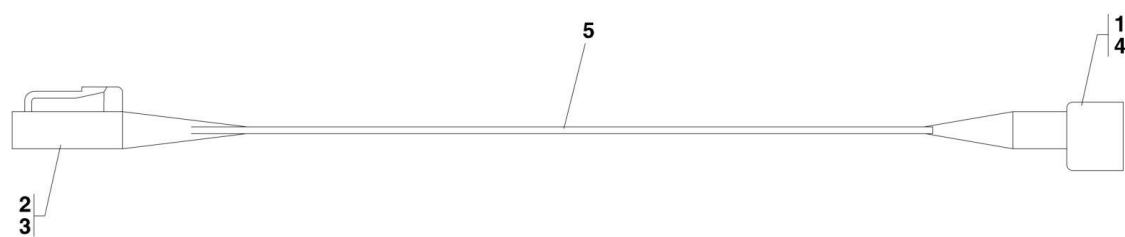
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FIGURE 10-12. TRANSMISSION HARNESS - ZF (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115528	1	ZF TRANSMISSION HARNESS, (includes all items)	A
1	4460970	1	FEMALE RECEPTACLE	
2	80363179	1	SECONDARY WEDGELOCK	
3	4460955	6	CONNECTOR	
4	91363021	6	MOLDED DIODE	
5	1001117073	1	CONNECTOR	
6	70022741	1	LOCKWEDGE	

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FIGURE 10-13. CAB WORK LIGHT HARNESS (SN 0160034649 to Present)



PY1770

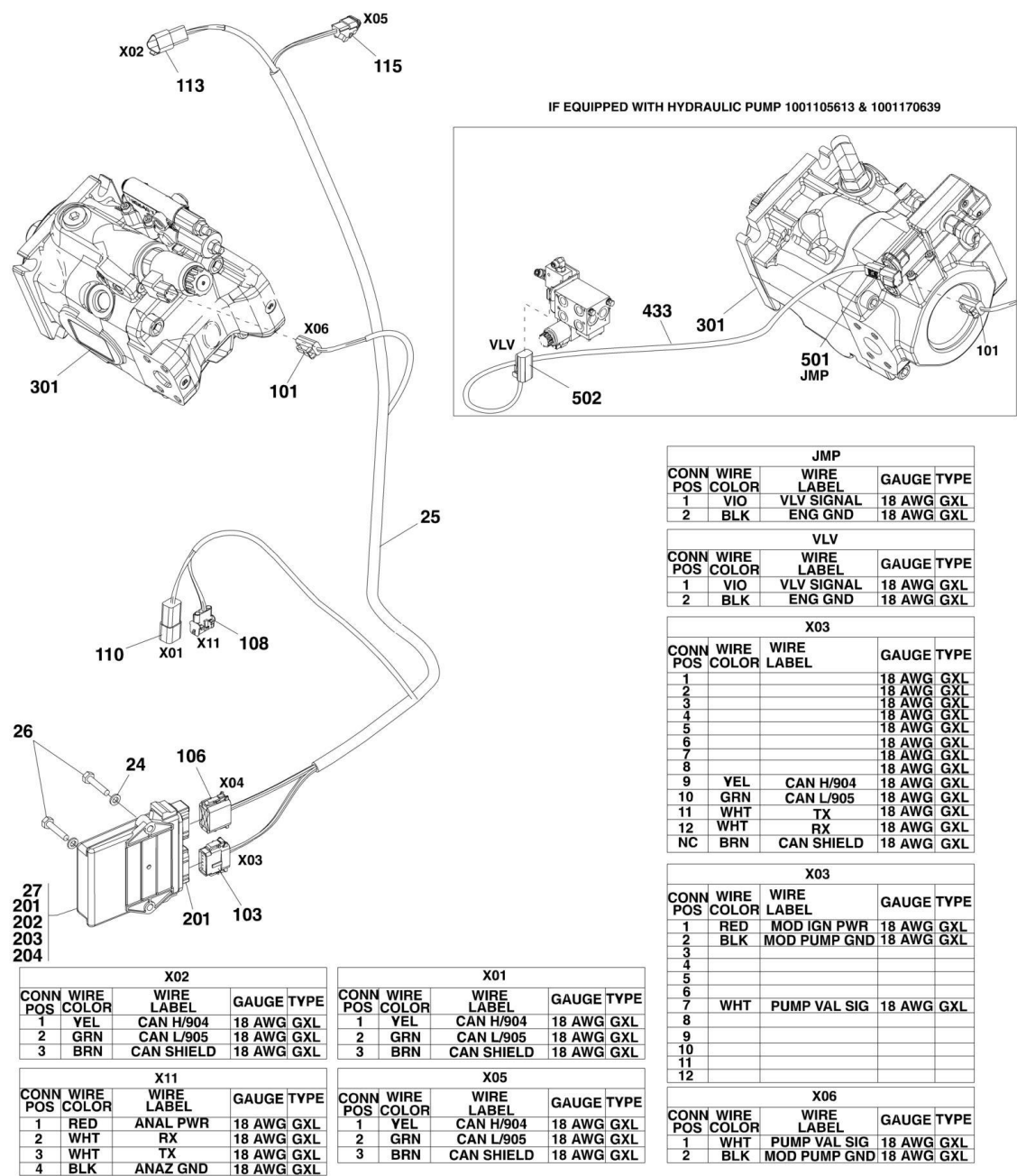
SECTION 10 - ELECTRICAL

FIGURE 10-13. CAB WORK LIGHT HARNESS (SN 0160034649 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100895	1	CAB WORK LIGHT HARNESS, (if equipped with front or top brick guard), (includes all items)	A
1	4460464	2	TERMINAL	
2	4460465	2	TERMINAL	
3	4460891	1	TERMINAL	
4	4460897	1	TERMINAL	
5	4920018	2	WIRE, 16 GA, BLACK	

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FIGURE 10-14. ANTI-STALL HARNESS AND CONTROL (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-10-14

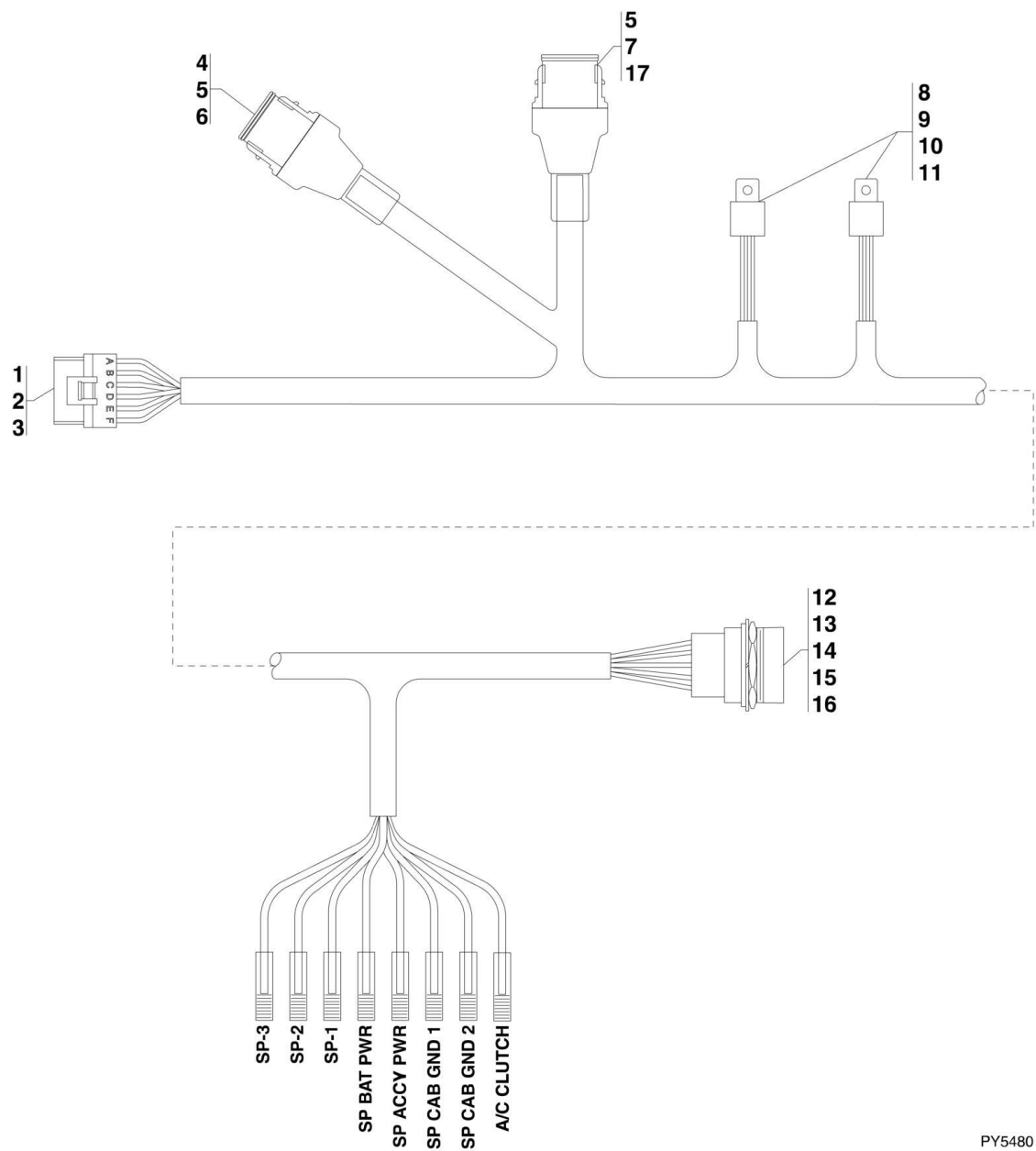
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FIGURE 10-14. ANTI-STALL HARNESS AND CONTROL (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
24	4761400	2	LOCKWASHER, 1/4	B
25	1001129081	1	ANTI-STALL HARNESS, (includes items 101 thru 115)	
26	0641410	2	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5	E
27	1001128743	1	CONTROL, (includes items 201 thru 204)	
101	4460891	1	TERMINAL, 2 POSITION	
101	80604018	1	WEDGELOCK	
101	4460465	2	TERMINAL SOCKET	
103	1001116808	1	CONNECTOR	
103	4460909	1	WEDGELOCK	
103	4460915	1	REAR SEAL	
103	1001126008	3	TERMINAL PIN	
103	4460518	9	TERMINAL, SEALING PLUG	
106	1001116774	1	CONNECTOR	
106	1001126009	4	TERMINAL	
106	4460908	1	HOUSING	
106	4460915	1	WEDGELOCK	
106	4460518	8	TERMINAL, SEALING PLUG	
108	4460761	1	TERMINAL, HOUSING MATE-N-LOC	
108	4460267	4	TERMINAL, PIN CONTACT	
110	4460932	1	TERMINAL, RECEPTACLE	
110	80604022	1	WEDGELOCK	
110	4460464	2	TERMINAL PIN	
110	4460466	2	TERMINAL, SEALING PLUG	
113	4460536	1	CONNECTOR	
113	91554022	1	WEDGELOCK	
113	4460943	3	TERMINAL PIN	
115	4461095	1	CONNECTOR	
115	4460944	3	TERMINAL SOCKET	
201	1001128741	1	ACCESSORY MODULE, PC BOARD	
202	0861493	1	CIRCUIT CARD BOX	
203	1001128779	1	TILT AND AUX DECAL	
204	1001128742	1	PUMP DISPLACEMENT SOFTWARE	
301		Ref	HYDRAULIC PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
433	1001136671	1	RELIEF VALVE JUMPER HARNESS, (includes items 501 & 502), (if equipped with Hydraulic Pump 1001105613 & 1001170639)	
501	4460891	1	CONNECTOR, (if equipped with Hydraulic Pump 1001105613 & 1001170639)	
501	4460465	2	TERMINAL	
501	80604018	1	WEDGELOCK	
502	4460897	1	CONNECTOR, (if equipped with Hydraulic Pump 1001105613 & 1001170639)	
502	4460464	2	TERMINAL	
502	80604017	1	WEDGELOCK	

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FIGURE 10-15. CAB CONTROL HARNESS (SN 0160040675 through 0160045923, Including 0160040468 and 0160040672)



PY5480

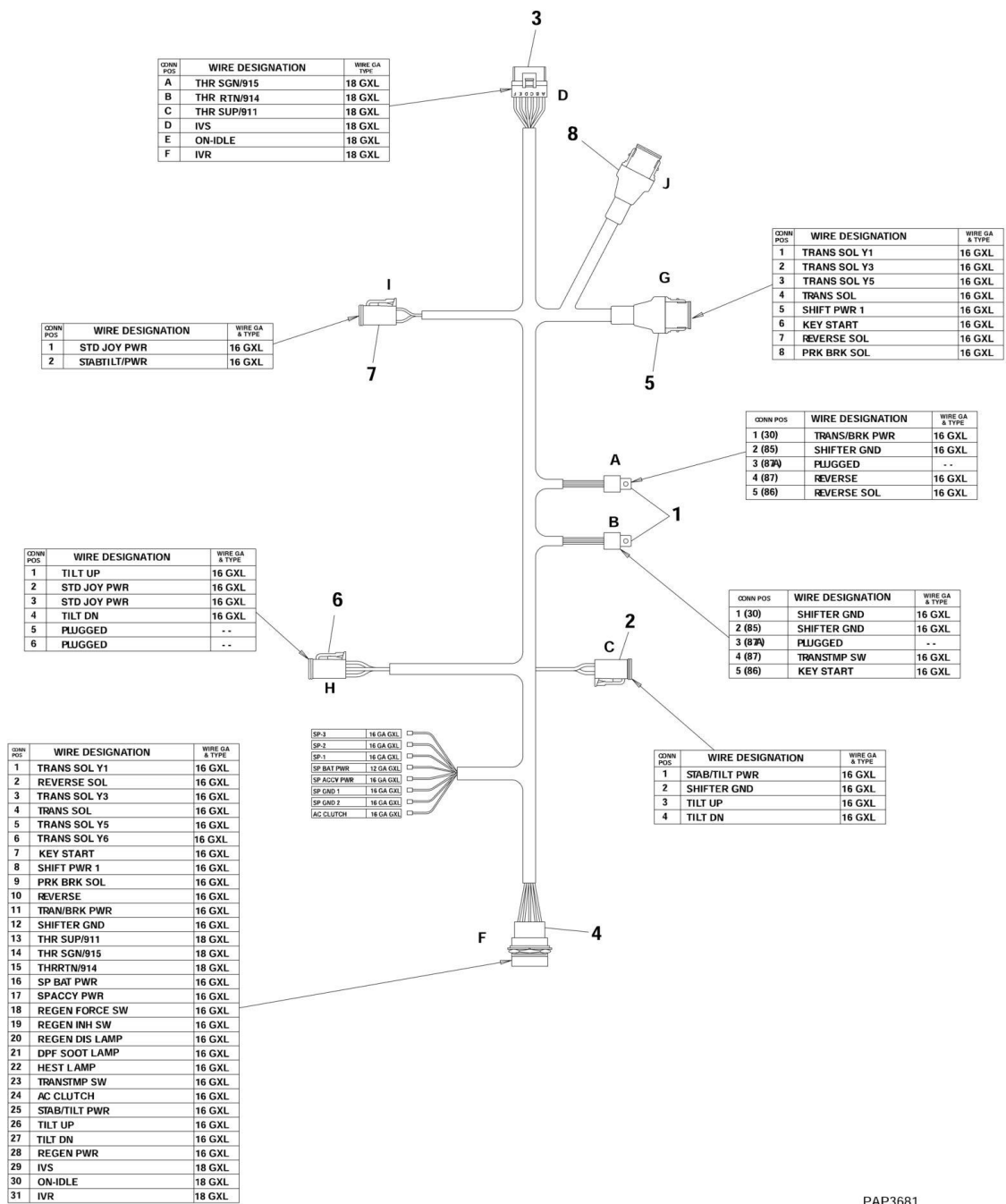
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FIGURE 10-15. CAB CONTROL HARNESS (SN 0160040675 through 0160045923, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108838	NLA	CAB CONTROL HARNESS, (no longer available, use 1001099318 for replacement), (includes all items)	D
1	1001116751	1	PLUG	
2	91554014	1	TERMINAL	
3	1001117064	1	CONNECTOR	
4	N.S.S.	1	BOOT	
5	4460465	2	CONTACT	
6	4460933	1	CONNECTOR	
6	80604016	1	WEDGELOCK	
7	4460930	1	CONNECTOR	
7	8220525	1	WEDGE LOCK	
8	1001118282	2	CONNECTOR, (includes item 9)	
9	3740080	2	RELAY	
10	1001116733	2	TERMINAL	
11	91554023	2	PLUG	
12	4460503	1	CONNECTOR	
13	4460464	1	CONTACT	
14	4460466	1	PLUG	
15	83481286	1	NUT	
16	83481285	1	WASHER	
17	70020870	1	BOOT	

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FIGURE 10-16. CAB CONTROL HARNESS (SN 0160045923 through 0160056012)



PAP3681

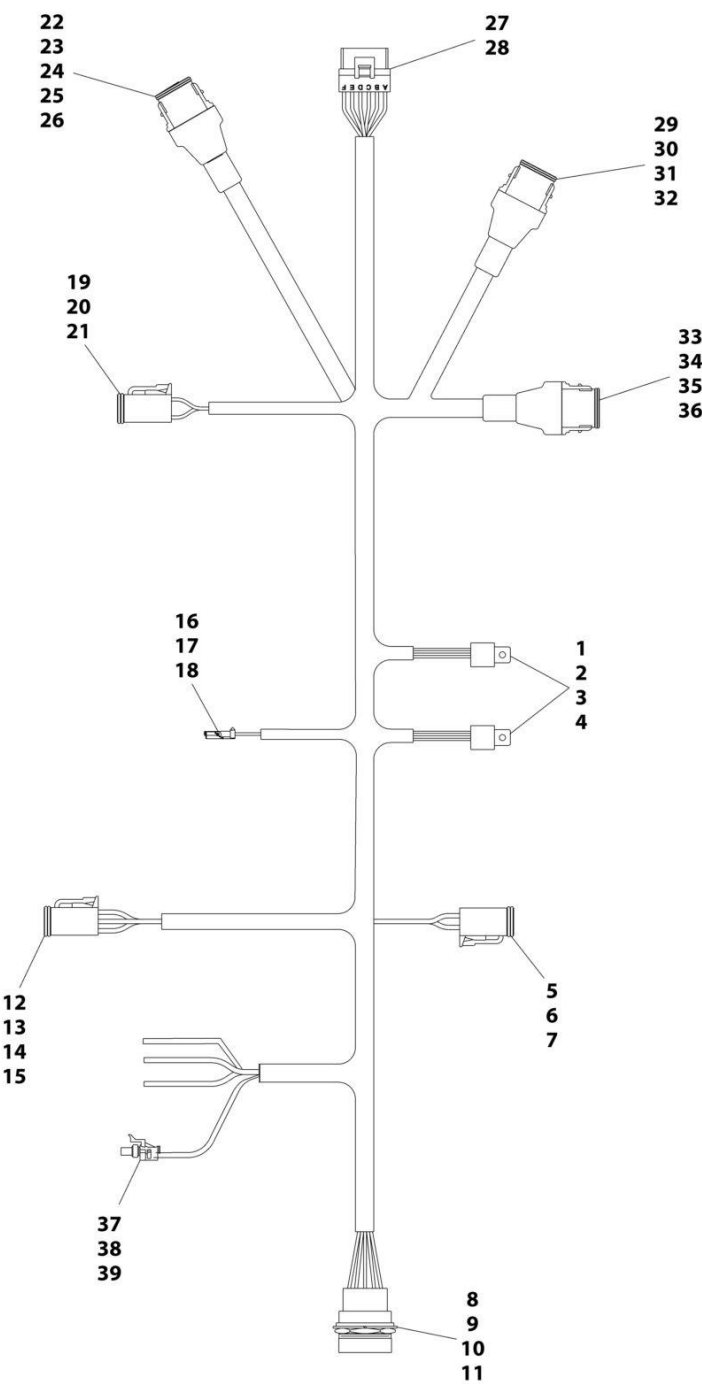
SECTION 10 - ELECTRICAL

FIGURE 10-16. CAB CONTROL HARNESS (SN 0160045923 through 0160056012)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099318	1	CAB CONTROL HARNESS, (includes all items)	I
1	3740080	2	RELAY	
1	4460374	2	CONNECTOR	
1	1001116733	4	TERMINAL	
1	91554023	1	PLUG	
2	4460884	1	CONNECTOR KIT, (includes rear seal)	
2	80604021	1	WEDGE LOCK	
2	4460465	4	SOCKET TERMINAL	
3	1001117064	1	CONNECTOR	
3	91554014	6	TERMINAL	
4	4460503	1	CONNECTOR	
4	4460464	31	TERMINAL	
4	4460470	1	NUT	
4	4460471	1	LOCKWASHER	
5	4460930	1	CONNECTOR KIT, (includes rear seal)	
5	8220525	1	WEDGE LOCK	
5	4460465	8	CONTACT	
5	70020870	1	BOOT	
6	4460894	1	CONNECTOR KIT, (includes locking seal)	
6	91504107	1	WEDGE LOCK	
6	4460465	4	CONTACT	
6	4460466	2	PLUG	
7	4460891	1	RELAY	
7	80604018	1	WEDGE LOCK	
7	4460465	2	SOCKET TERMINAL	
8	N.S.S.	1	CONNECTOR, (not used)	

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FIGURE 10-17. CAB CONTROL HARNESS (SN 0160056012 to Present)



ART_1001140233-D

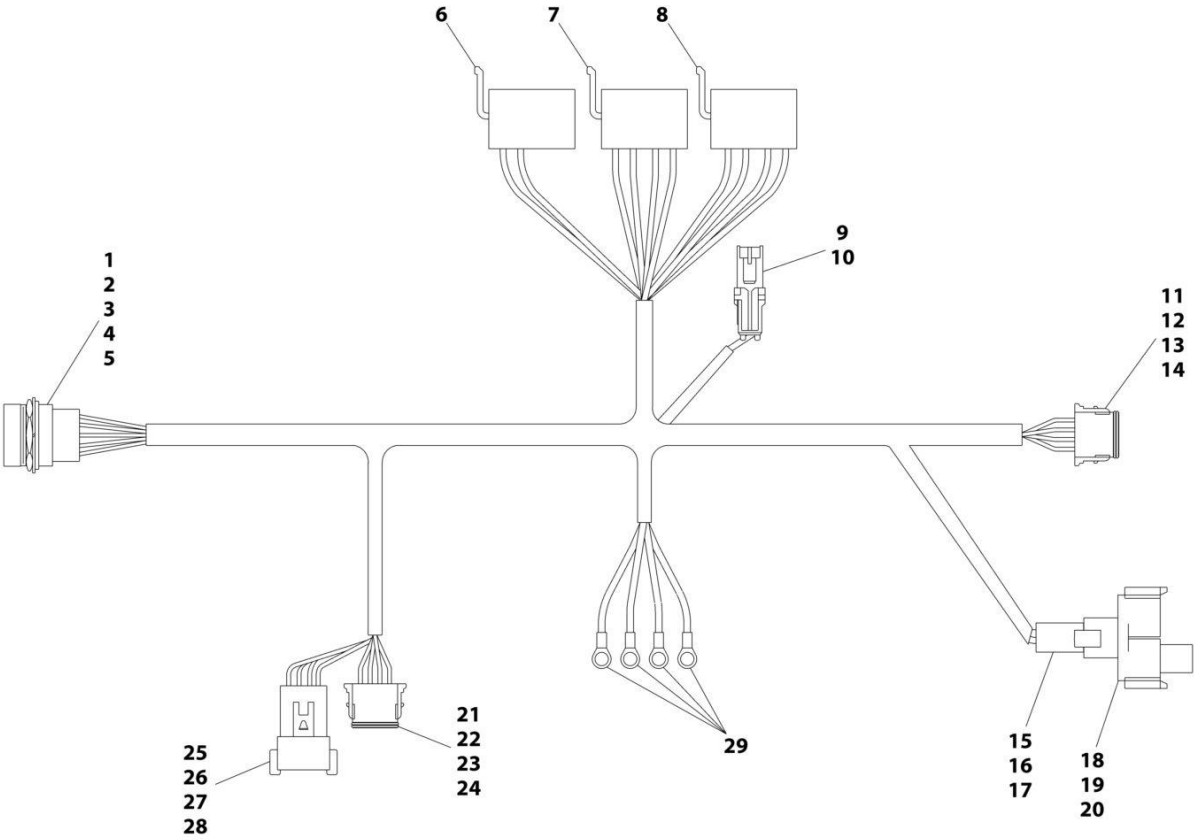
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FIGURE 10-17. CAB CONTROL HARNESS (SN 0160056012 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001140233	Ref	TRANSMISSION RELAY HARNESS	C
1	3740080	2	RELAY	
2	1001118282	1	RELAY, METRI-PACK	
3	1001116733	4	TERMINAL	
4	1001128128	1	PLUG	
5	4460884	1	CONNECTOR	
6	80604021	1	LOCK, CONNECTOR	
7	4460465	4	TERMINAL	
8	4460503	1	CONNECTOR	
9	4460464	31	TERMINAL	
10	83481286	1	NUT	
11	83481285	1	WASHER, LOCK	
12	91504088	1	CONNECTOR	
13	91504107	1	LOCK, CONNECTOR	
14	77363229	4	CONNECTOR	
15	4460466	2	PLUG	
16	80963055	1	CONNECTOR	
17	80963068	1	TERMINAL	
18	77394009	1	SEAL, RED CABLE	
19	7026408	1	CONNECTOR	
20	80604018	1	LOCK, CONNECTOR	
21	77363229	2	LOCK, CONNECTOR	
22	4460851	1	CONNECTOR	
23	80604025	1	LOCK, CONNECTOR	
24	77363229	7	CONNECTOR	
25	4460466	1	PLUG	
26	70020870	1	BOOT	
27	1001117064	1	CONNECTOR	
28	91554014	6	TERMINAL	
29	80604016	1	LOCK, CONNECTOR	
30	4460465	9	TERMINAL	
31	4460930	1	PLUG	
32	80604025	1	LOCK, CONNECTOR	
33	4460930	1	PLUG	
34	80604025	1	LOCK, CONNECTOR	
35	4460465	1	CONNECTOR	
36	70020870	1	BOOT	
37	80963055	1	CONNECTOR	
38	80963068	1	TERMINAL	
39	80963065	1	SEAL	

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FIGURE 10-18. CAB DASH HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_1001108841-F

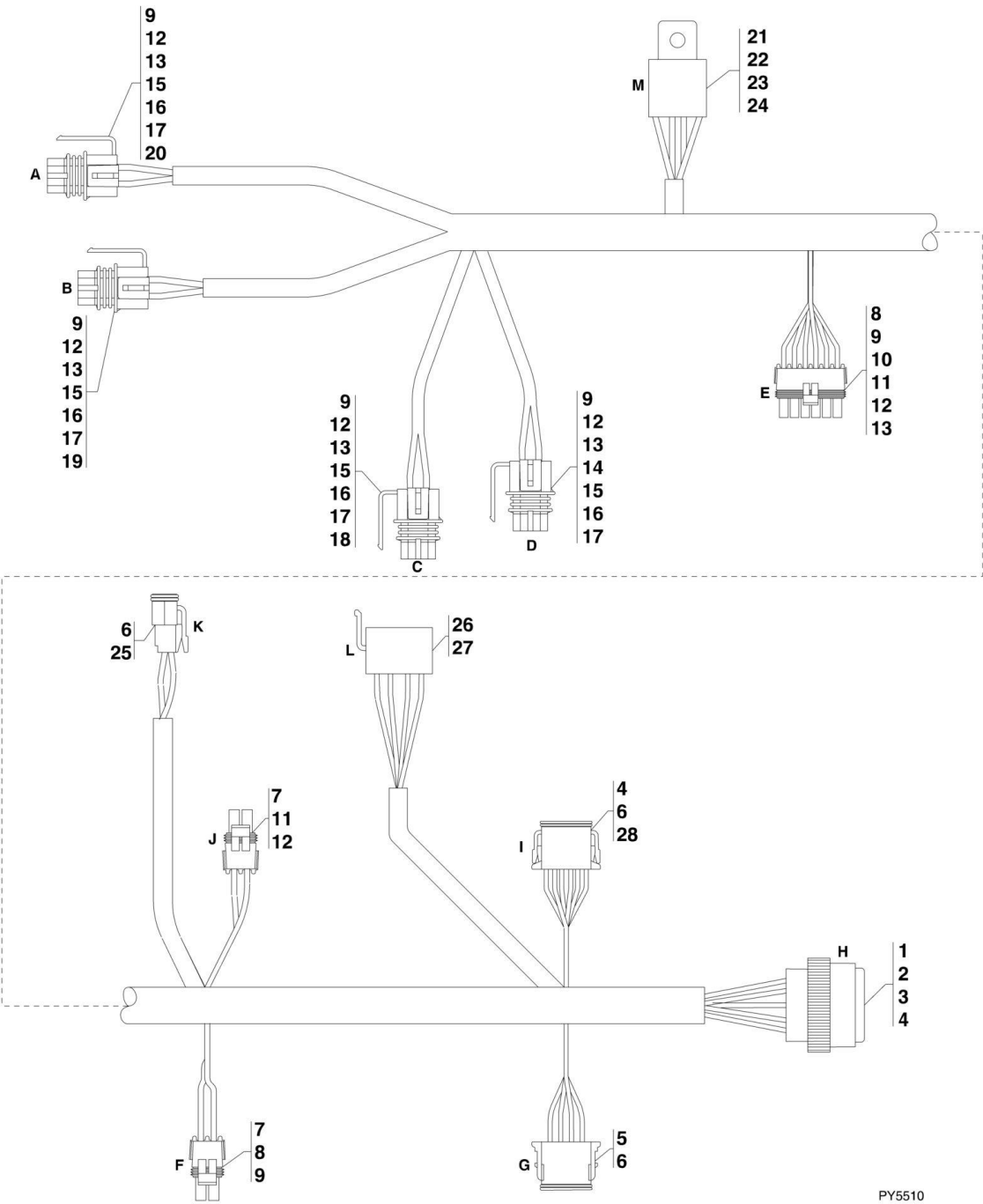
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FIGURE 10-18. CAB DASH HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108841	1	CAB DASH HARNESS	F
1	4460500	1	CONNECTOR	
2	4460465	30	TERMINAL	
3	4460466	1	PLUG	
4	83481286	1	NUT	
5	83481285	1	LOCKWASHER	
6	4460419	2	METRI-PACK CONNECTOR	
7	4460419	6	METRI-PACK CONNECTOR	
8	4460419	4	METRI-PACK CONNECTOR	
9	80963056	1	CONNECTOR	
10	4460475	1	TERMINAL	
11	8220524	1	CONNECTOR	
12	8220525	1	WEDGE LOCK	
13	4460465	7	TERMINAL	
14	4460466	1	PLUG	
15	77363242	1	CONNECTOR	
16	91554019	1	CONNECTOR LOCK	
17	4460944	2	TERMINAL	
18	7026425	1	CONNECTOR	
19	80604016	1	LOCK, CONNECTOR	
20	4460465	10	TERMINAL	
21	4460466	1	TERMINAL	
22	80363178	1	CONNECTOR	
23	80363179	1	LOCK, CONNECTOR	
24	4460465	1	TERMINAL	
25	4460466	1	PLUG	
26	4460945	1	TERMINAL	
27	70022224	1	CONNECTOR	
28	91554019	1	LOCK, CONNECTOR	
29	4460042	4	16 GA TERMINAL RING	

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FIGURE 10-19. VEC BOX HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



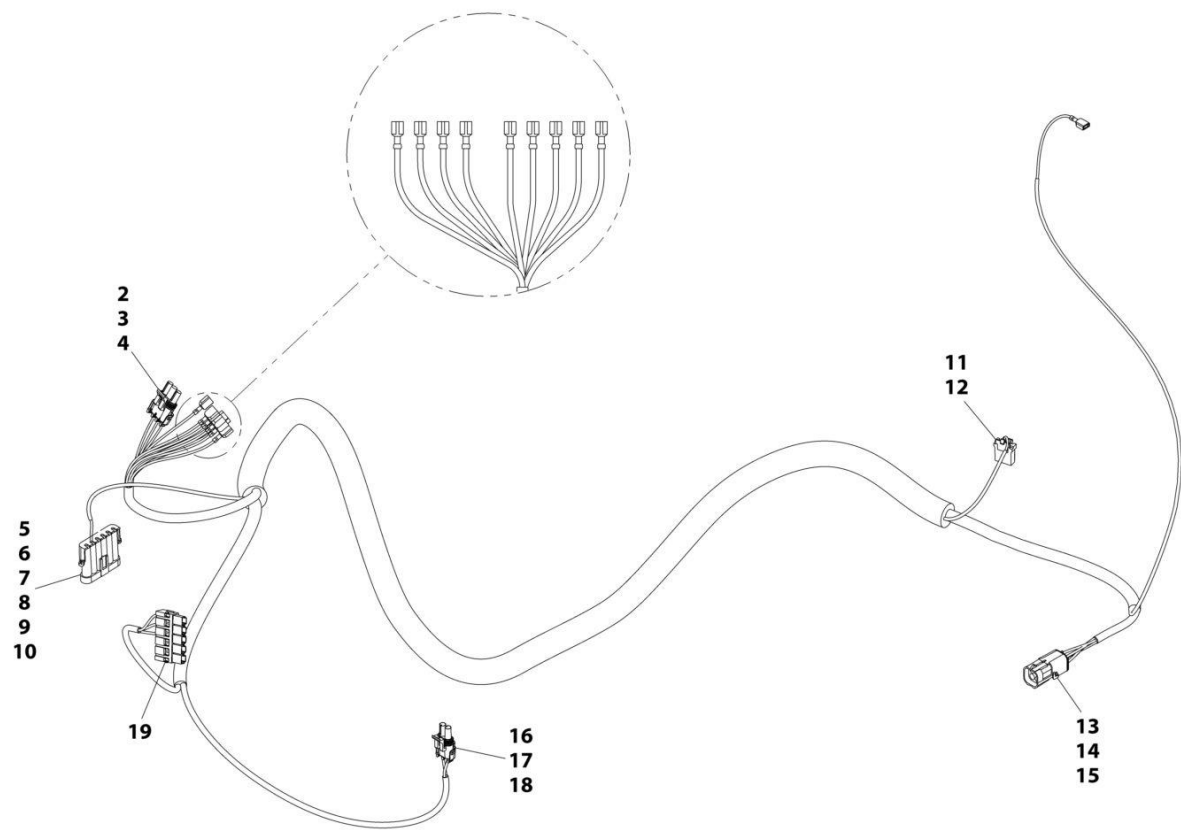
SECTION 10 - ELECTRICAL

FIGURE 10-19. VEC BOX HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112039	1	VEC BOX HARNESS, (includes all items)	E
1	91504089	1	CONNECTOR	
2	4460464	1	CONTACT	
3	4460508	1	CONTACT	
4	4460466	1	PLUG	
5	4460930	1	CONNECTOR	
5	80604025	1	WEDGELOCK	
6	4460465	2	TERMINAL	
7	4460742	2	CONNECTOR	
8	4460790	2	TERMINAL	
9	8220089	6	SEAL	
10	4460461	1	CONNECTOR	
11	4460457	2	TERMINAL	
12	4460458	4	SEAL	
13	1001116727	3	PLUG	
14	80484081	1	GREEN CONNECTOR	
15	7026414	4	CONNECTOR LOCK	
16	4460746	4	TERMINAL	
17	1001116747	4	TERMINAL	
18	80484084	1	BLUE CONNECTOR	
19	80484085	1	GRAY CONNECTOR	
20	1001121557	NLA	BLACK CONNECTOR (no longer available, use 80484086 for replacement)	
20	80484086	1	BLACK CONNECTOR	
21	1001118282	1	CONNECTOR, (includes item 22)	
22	3740080	1	RELAY	
23	1001116733	1	TERMINAL	
24	91554023	1	PLUG	
25	4460891	1	CONNECTOR	
25	80604018	1	WEDGELOCK	
26	7026439	1	HOUSING	
27	4460419	1	TERMINAL	
28	4460933	1	CONNECTOR	
28	80604016	1	WEDGELOCK	

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FIGURE 10-20. ENCLOSED CAB OPTION HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91563185-B

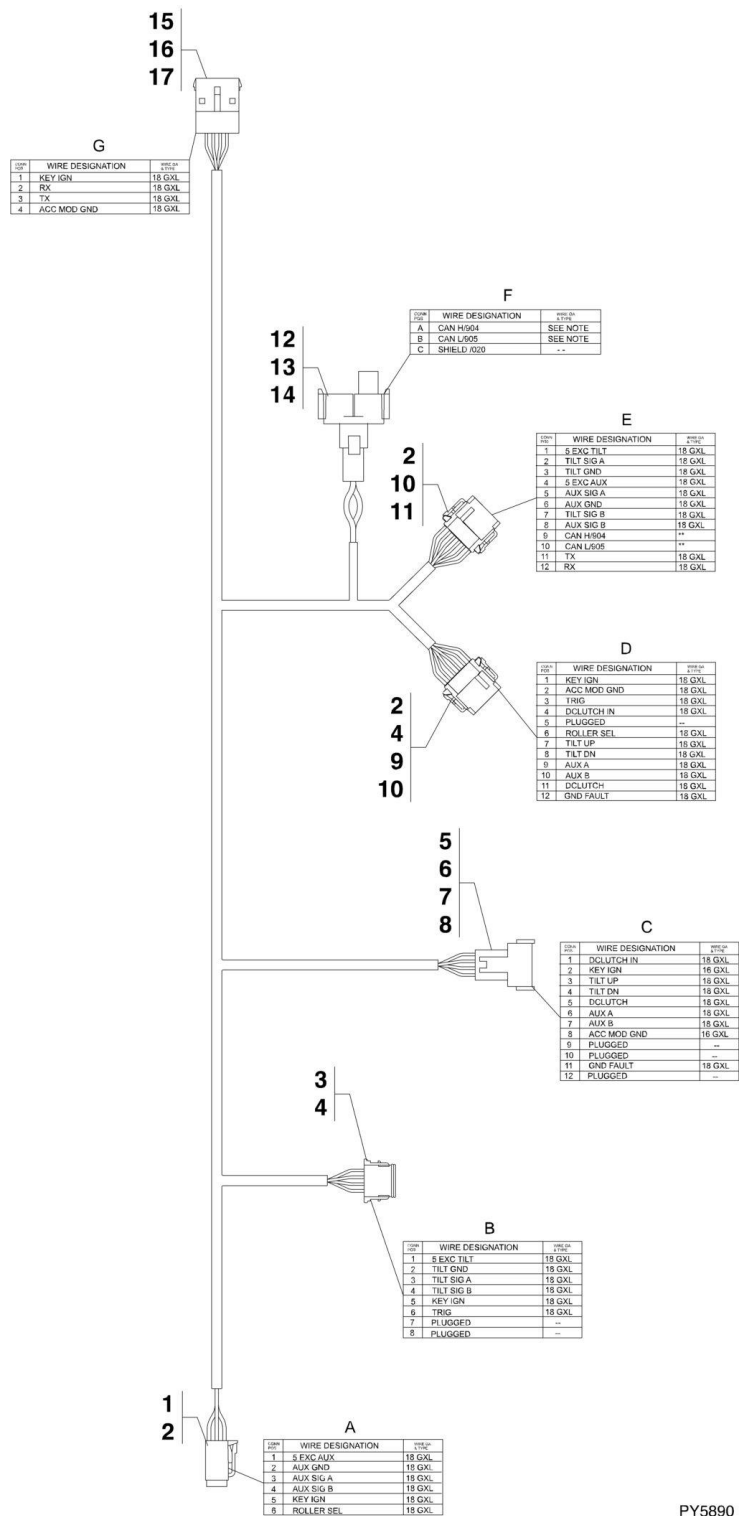
SECTION 10 - ELECTRICAL

FIGURE 10-20. ENCLOSED CAB OPTION HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563185	Ref	ENCLOSED CAB OPTION HARNESS, (if equipped)	B
2	4460459	1	TERMINAL, CONNECTOR	
3	4460743	3	TERMINAL, SOCKET	
4	80963065	1	SEAL, WEATHERPACK CABLE	
5	80963065	1	SEAL, WEATHERPACK CABLE	
6	80963064	1	SHROUD	
7	80963069	2	PIN, WEATHERPACK MALE	
8	4460850	3	TERMINAL, MALE PIN	
9	80963067	1	SEAL	
10	80963070	1	PLUG, DUST CAP	
11	7026429	1	CONNECTOR	
12	7026430	3	TERMINAL	
13	80963065	1	SEAL, WEATHERPACK CABLE	
14	80963069	4	PIN, WEATHERPACK MALE	
15	80963062	1	CONNECTOR	
16	80963057	1	TOWER	
17	80963068	2	TERMINAL	
18	80963065	1	SEAL, WEATHERPACK CABLE	
19	7026431	1	CONNECTOR	

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FIGURE 10-21. ACCESSORY MODULE HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5890

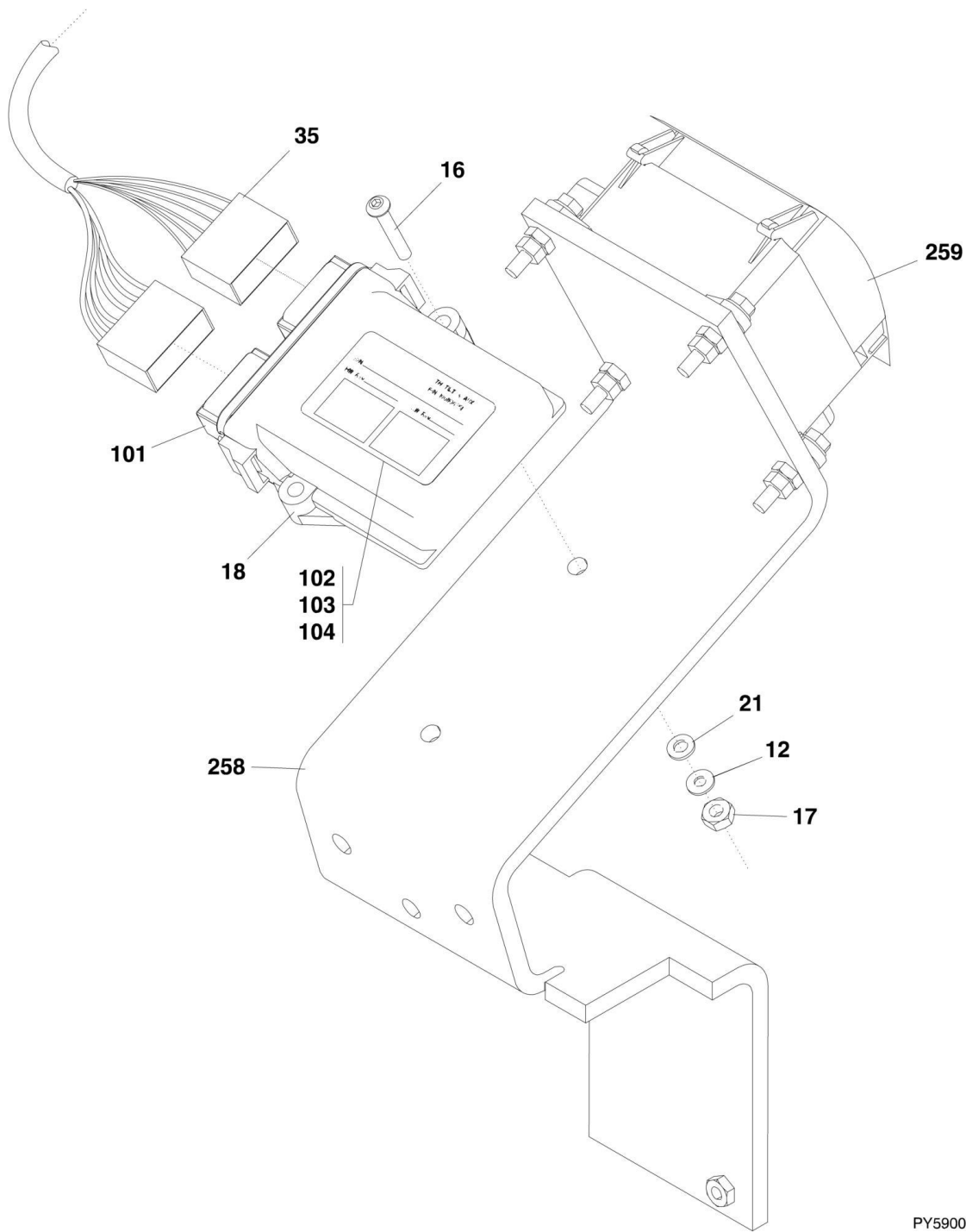
SECTION 10 - ELECTRICAL

FIGURE 10-21. ACCESSORY MODULE HARNESS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001111148	1	ACCESSORY MODULE HARNESS, (includes all items)	D
1	1001126007	1	CONNECTOR	
1	N.S.S.	1	LOCK	
1	N.S.S.		REAR SEAL	
2	1001116694	4	TERMINAL	
3	70023831	1	CONNECTOR	
3	N.S.S.	1	LOCK	
3	N.S.S.		REAR SEAL	
4	4460518	2	TERMAINAL	
5	80363178	1	CONNECTOR	
6	80363179	1	SECONDARY WEDGELOCK	
7	4460464	1	CONNECTOR	
8	4460466	1	TERMINAL	
9	1001116808	1	CONNECTOR	
10	4460915	2	WEDGELOCK	
11	1001116774	1	CONNECTOR, DTM SERIES PLUG	
12	4460539	1	CONNECTOR, DTM SERIES PLUG	
13	91554019	1	SECONDARY WEDGELOCK	
14	4460944	1	TERMINAL	
15	1001119032	1	CONNECTOR	
16	4460761	1	CONNECTOR	
17	4460267	1	TERMINAL	

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FIGURE 10-22. TILT AND AUX CONTROL MODULE (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY5900

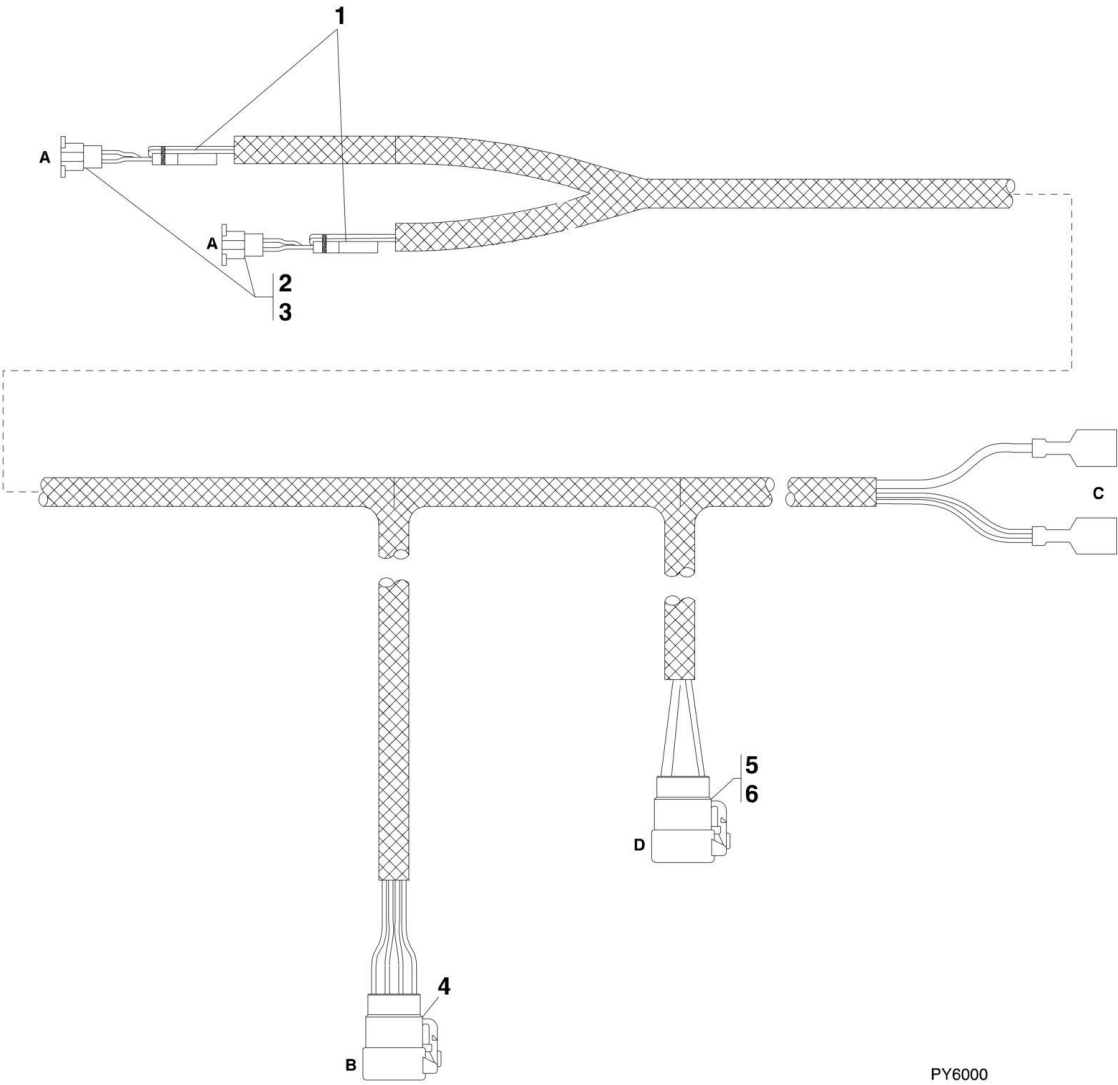
SECTION 10 - ELECTRICAL

FIGURE 10-22. TILT AND AUX CONTROL MODULE (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
12	4761400	2	LOCKWASHER, 1/4	F
16	8310722	2	BUTTON HD CAPSCREW, 1/4-20X1-1/2	
17	10701506	2	HEX NUT, 1/4-20	
18	1001106351	1	TILT AND AUX CONTROL MODULE, (includes items 101 thru 104)	
21	4711400	3	WASHER, 1/4	
35		Ref	ACCESSORY MODULE HARNESS, (See ACCESSORY MODULE HARNESS for Breakdown)	
101	1001106352	1	ACCESSORY MODULE PC BOARD	
101	4460909	2	MATING CONNECTOR	
101	4460928	2	TERMINAL	
101	4460916	2	PLUG	
102	0861493	1	CIRCUIT CARD BOX	
103	1001106353	1	TILT AND AUX DECAL	
104	1001106354	1	SOFTWARE	
258		Ref	ACCELERATOR BRACKET, (See CONTROLS SECTION for Breakdown)	
259		Ref	VEC BOX ASSY, (See CAB SECTION for Breakdown)	

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FIGURE 10-23. TILT ON JOYSTICK HARNESS (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



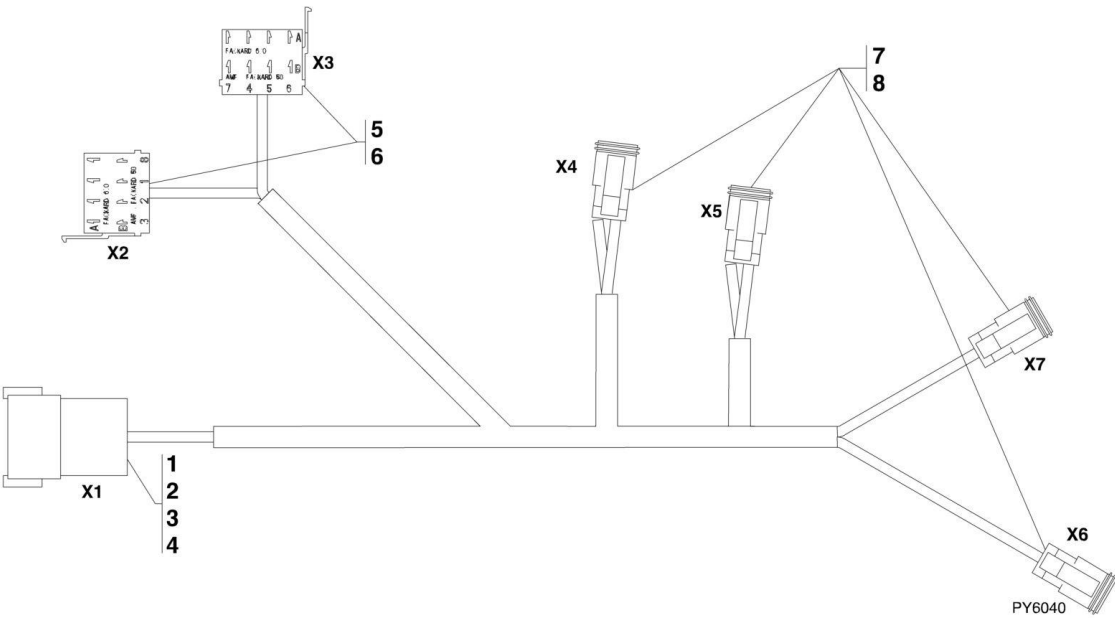
SECTION 10 - ELECTRICAL

FIGURE 10-23. TILT ON JOYSTICK HARNESS (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099319	1	TILT ON JOYSTICK HARNESS, (includes all items)	A
1	91363021	2	DIODE	
2	91474468	2	CONNECTOR	
3	91474469	4	TERMINAL	
4	4460894	1	CONNECTOR	
4	80604023	1	WEDGELOCK	
5	4460891	1	CONNECTOR	
5	80604018	1	WEDGELOCK	
6	4460465	2	TERMINAL	

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FIGURE 10-24. CAB WORK LIGHT HARNESS (Prior to SN 0160059327, Including 0160040468 and 0160040672 , Excluding 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)



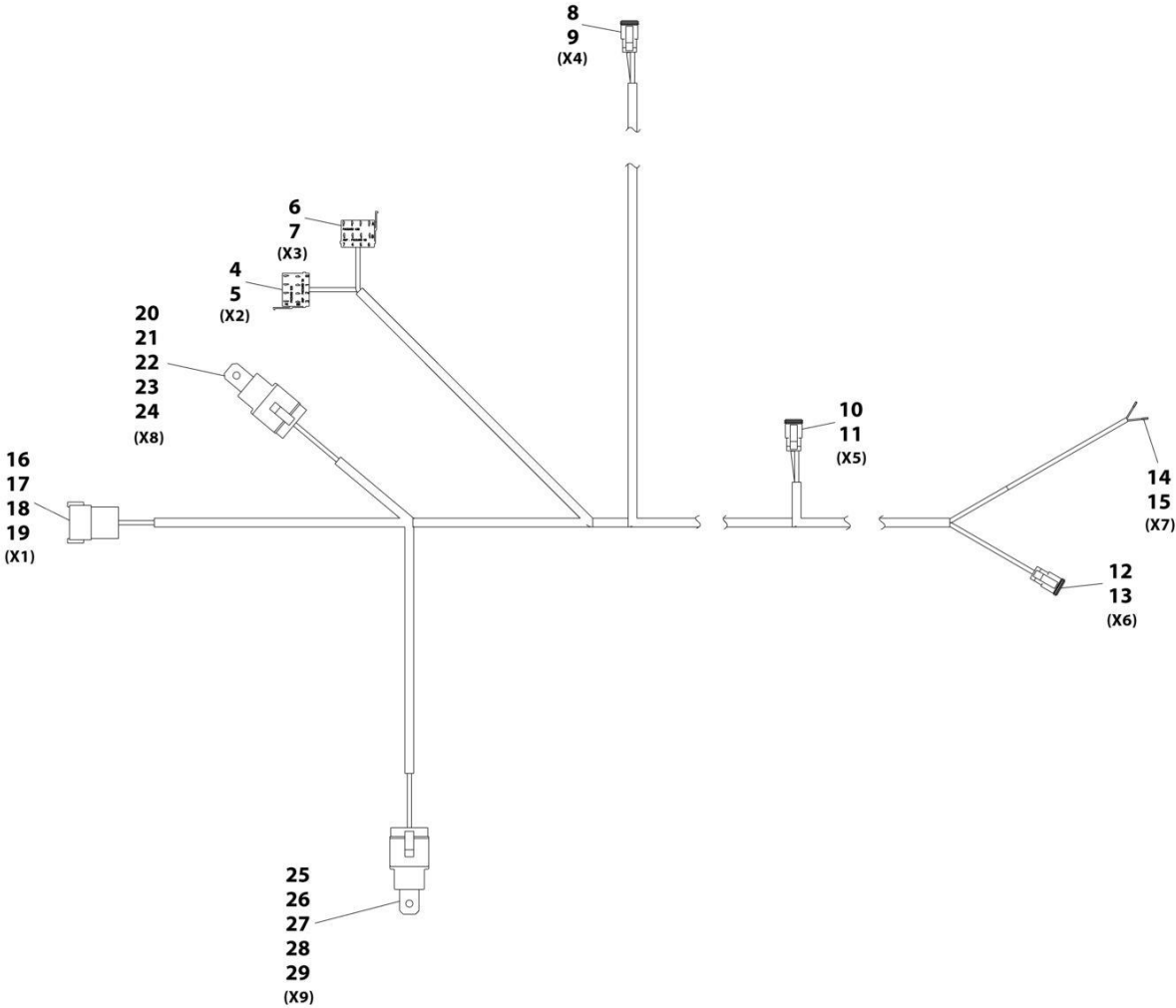
SECTION 10 - ELECTRICAL

FIGURE 10-24. CAB WORK LIGHT HARNESS (Prior to SN 0160059327, Including 0160040468 and 0160040672 , Excluding 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125384	1	CAB WORK LIGHT HARNESS, (if equipped), (includes all items)	B
1	4460931	1	CONNECTOR KIT	
1	80604025	1	WEDGELOCK	
2	4460465	2	TERMINAL	
3	4460942	4	TERMINAL	
4	4460466	2	PLUG	
5	7026439	2	CONNECTOR	
6	1001118384	8	TERMINAL	
7	4460891	4	CONNECTOR KIT	
7	80604018	4	WEDGELOCK	
8	4460942	8	TERMINAL	

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FIGURE 10-25. WORK LIGHT HARNESS (SN 0160059335 to Present, Including 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)



ART_1001224062-B

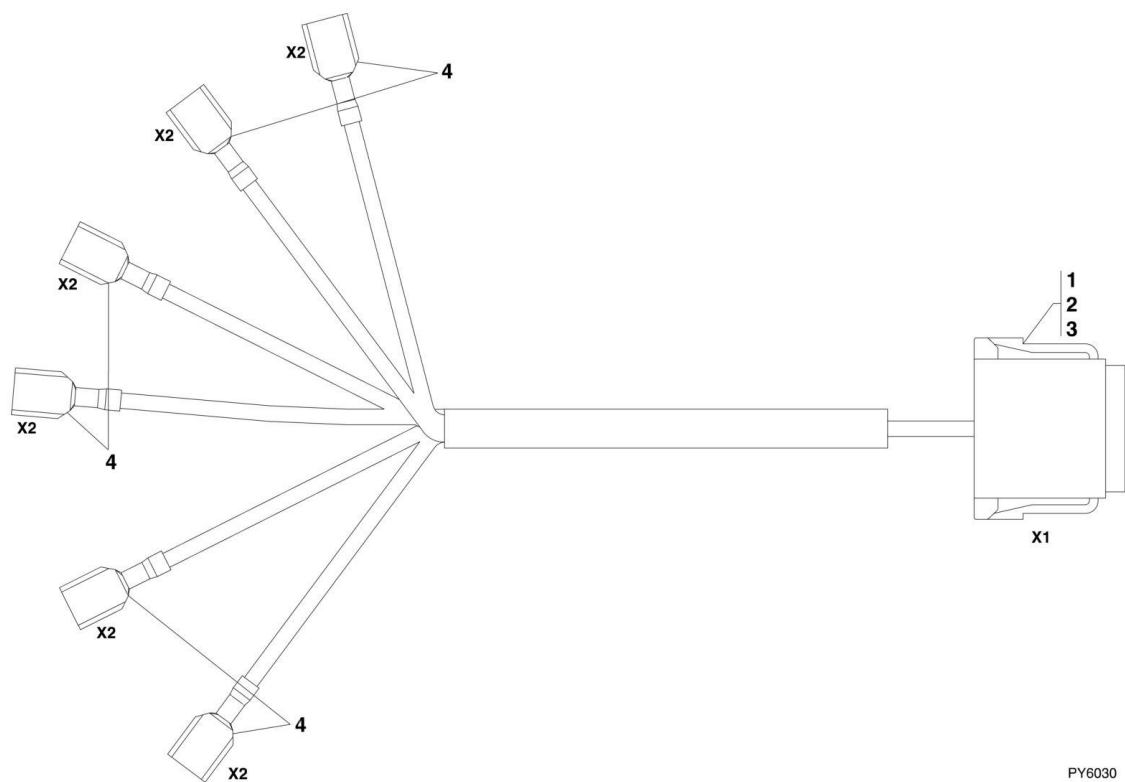
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FIGURE 10-25. WORK LIGHT HARNESS (SN 0160059335 to Present, Including 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001224062	1	CAB WORK LIGHT HARNESS	A
1	4460931	1	CONNECTOR	
2	4460941	6	TERMINAL	
3	4460466	2	PLUG	
4	8220904	1	CONNECTOR	
5	1001118384	5	TERMINAL	
6	8220904	1	CONNECTOR	
7	1001118384	3	TERMINAL	
8	4460891	1	CONNECTOR	
9	4460942	2	TERMINAL	
10	4460891	1	CONNECTOR	
11	4460942	2	TERMINAL	
12	4460891	1	CONNECTOR	
13	4460942	2	TERMINAL	
14	4460458	1	SEAL	
15	4460746	2	TERMINAL	
16	1001117025	1	CONNECTOR	
17	3740080	1	RELAY	
18	1001116733	2	TERMINAL	
19	1001128128	1	PLUG	
20	1001117025	1	CONNECTOR	
21	3740080	1	RELAY	
22	1001116733	2	TERMINAL	
23	1001128128	1	PLUG	

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FIGURE 10-26. CAB WORK LIGHT AND BEACON LIGHT SWITCH HARNESS (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)



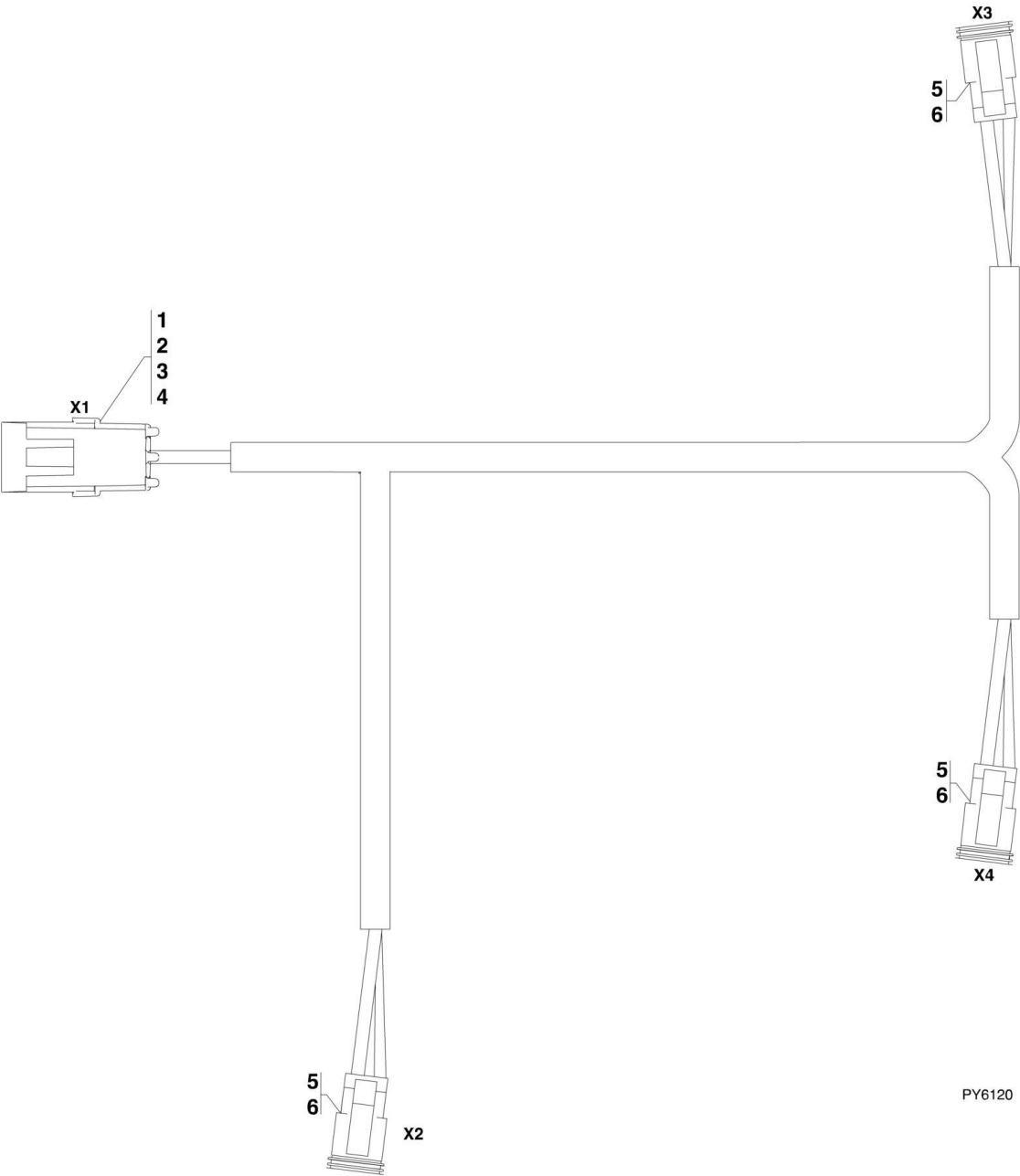
SECTION 10 - ELECTRICAL

**FIGURE 10-26. CAB WORK LIGHT AND BEACON LIGHT SWITCH HARNESS (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090507	1	CAB WORK LIGHT AND BEACON LIGHT SWITCH HARNESS, (if equipped), (includes all items)	A
1	4460930	1	CONNECTOR	
1	80604025	1	WEDGELOCK	
2	N.S.S.	7	TERMINAL	
3	4460466	1	PLUG	
4	N.S.S.	6	TERMINAL, 1/4 FULLY INSULATED	

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FIGURE 10-27. BOOM WORK LIGHTS HARNESS



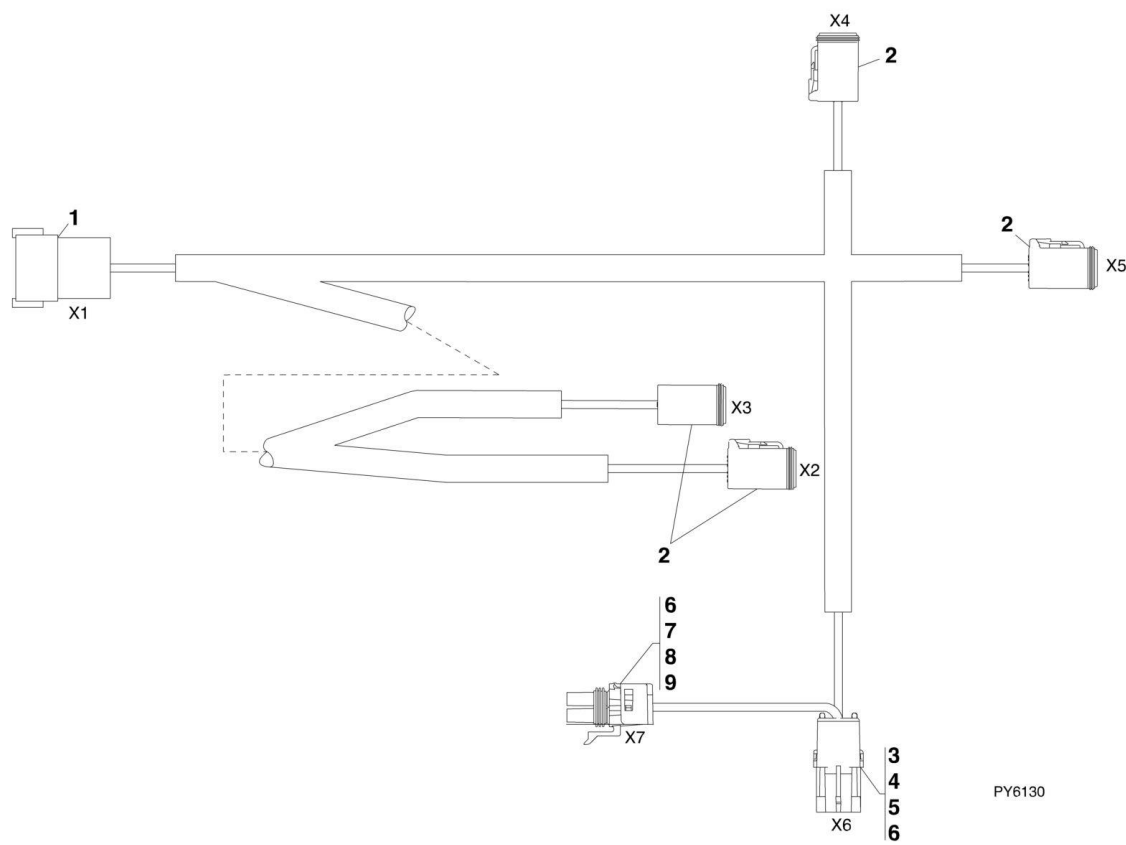
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FIGURE 10-27. BOOM WORK LIGHTS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125382	1	BOOM WORK LIGHTS HARNESS, (if equipped), (includes all items)	A
1	80963062	1	CONNECTOR	
2	4460850	2	TERMINAL	
3	4460789	1	SEAL	
4	1001116727	2	PLUG	
5	4460891	3	CONNECTOR KIT	
5	80604018	3	WEDGELOCK	
6	4460942	6	TERMINAL	

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FIGURE 10-28. FRAME ROAD LIGHTS HARNESS



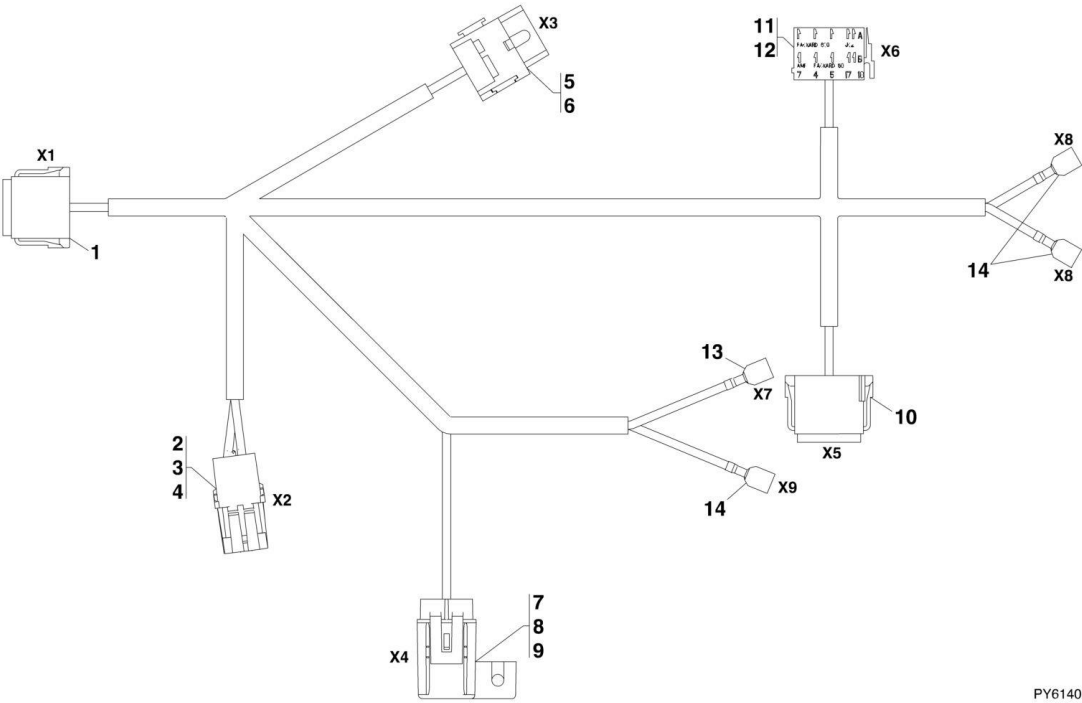
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FIGURE 10-28. FRAME ROAD LIGHTS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125385	1	FRAME ROAD LIGHTS HARNESS, (if equipped), (includes all items)	A
1	91503105	1	CONNECTOR	
1	91503106	1	WEDGELOCK	
2	7026909	4	CONNECTOR	
2	80604023	4	WEDGELOCK	
3	80963062	1	CONNECTOR	
4	4460789	3	TERMINAL	
5	8220089	1	SEAL	
6	80963070	4	PLUG	
7	80963061	1	CONNECTOR	
8	80963068	2	TERMINAL	
9	4460458	1	SEAL	

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FIGURE 10-29. CAB ROAD LIGHTS HARNESS



PY6140

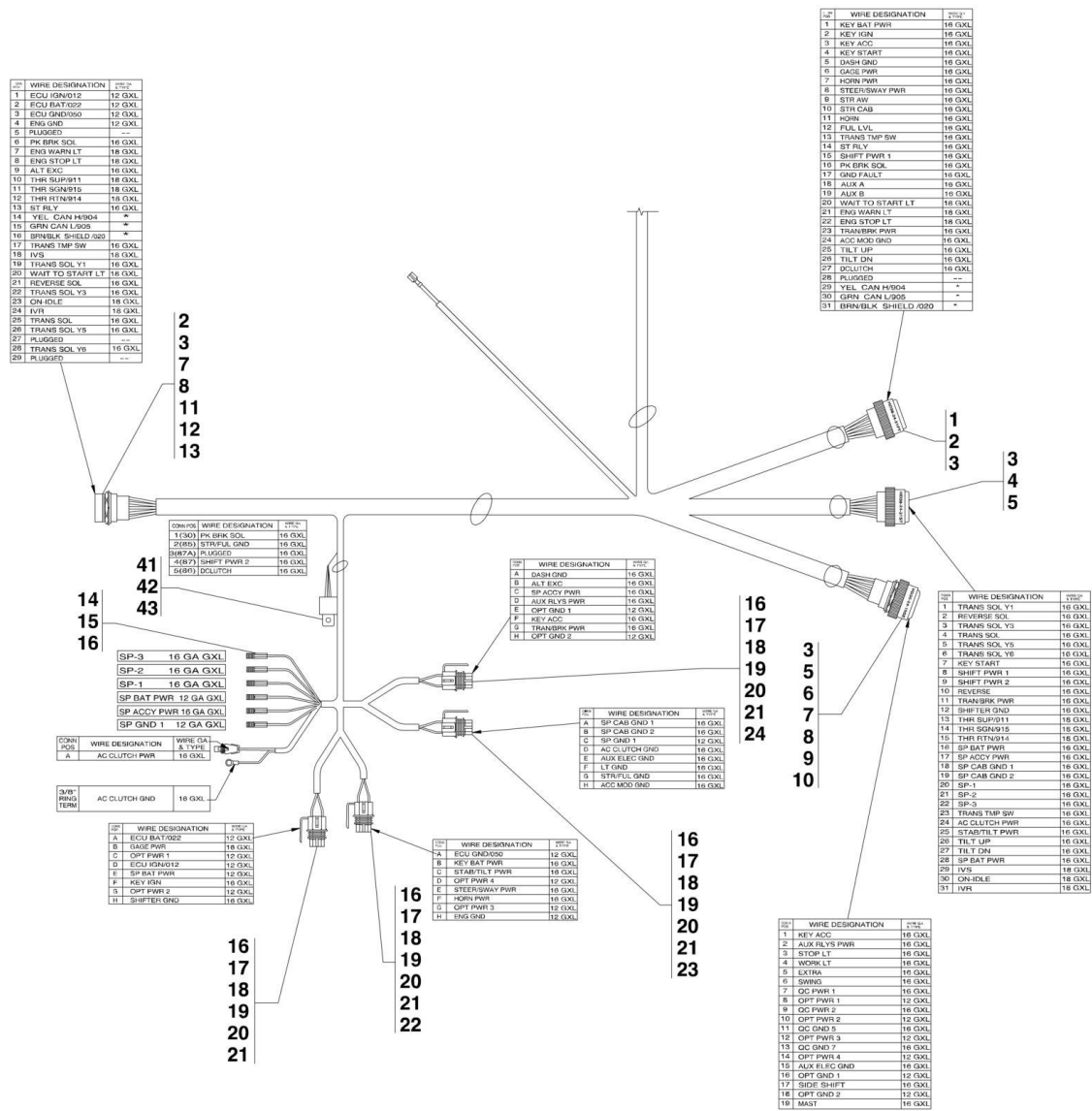
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FIGURE 10-29. CAB ROAD LIGHTS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090509	1	CAB ROAD LIGHTS HARNESS, (if equipped), (includes all items)	C
1	4460851	1	CONNECTOR	
1	80604025	1	WEDGELOCK	
2	4461157	1	CONNECTOR	
3	4460475	2	TERMINAL	
4	8220081	1	SEAL	
5	1001117058	1	CONNECTOR	
6	4460419	2	TERMINAL	
7	1001117018	1	CONNECTOR, (includes 15 amp fuse)	
8	1001116733	2	TERMINAL	
9	7029771	1	COVER	
10	4460934	1	CONNECTOR	
10	80604016	1	WEDGELOCK	
11	1001117079	1	CONNECTOR	
12	1001118384	7	TERMINAL	
13	N.S.S.	1	1/4 SPADE TERMINAL	
14	N.S.S.	3	1/4 FEMALE TERMINAL	

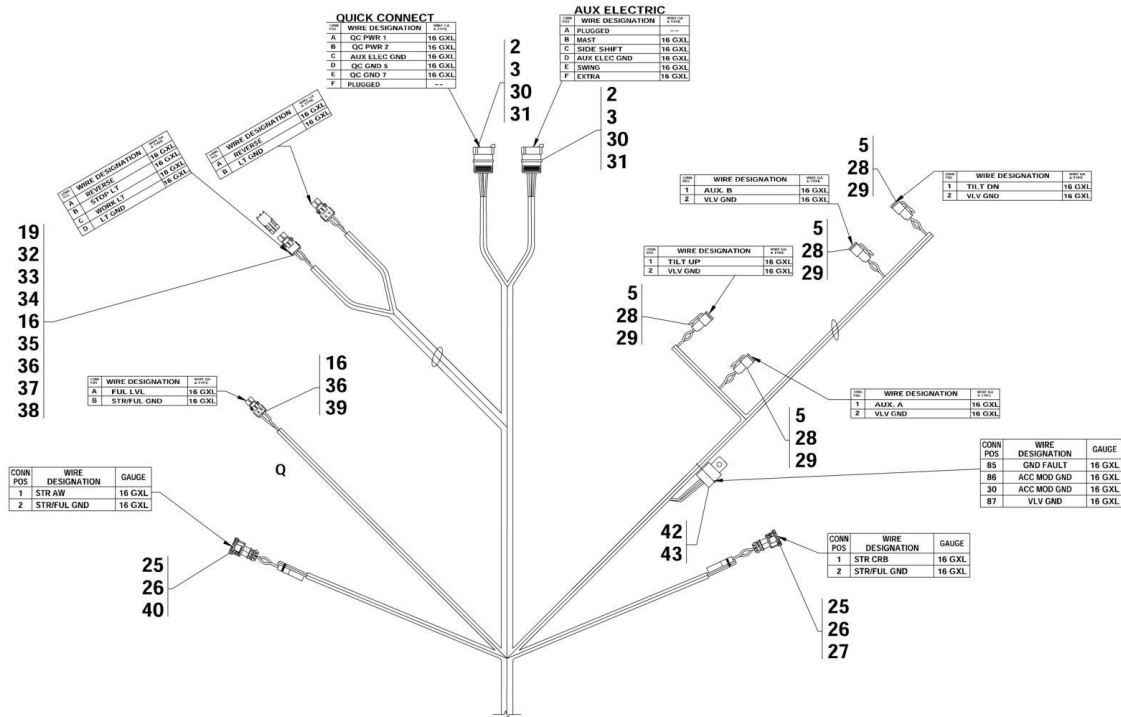
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FIGURE 10-30. CHASSIS HARNESS



PAP11240

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PAP18430

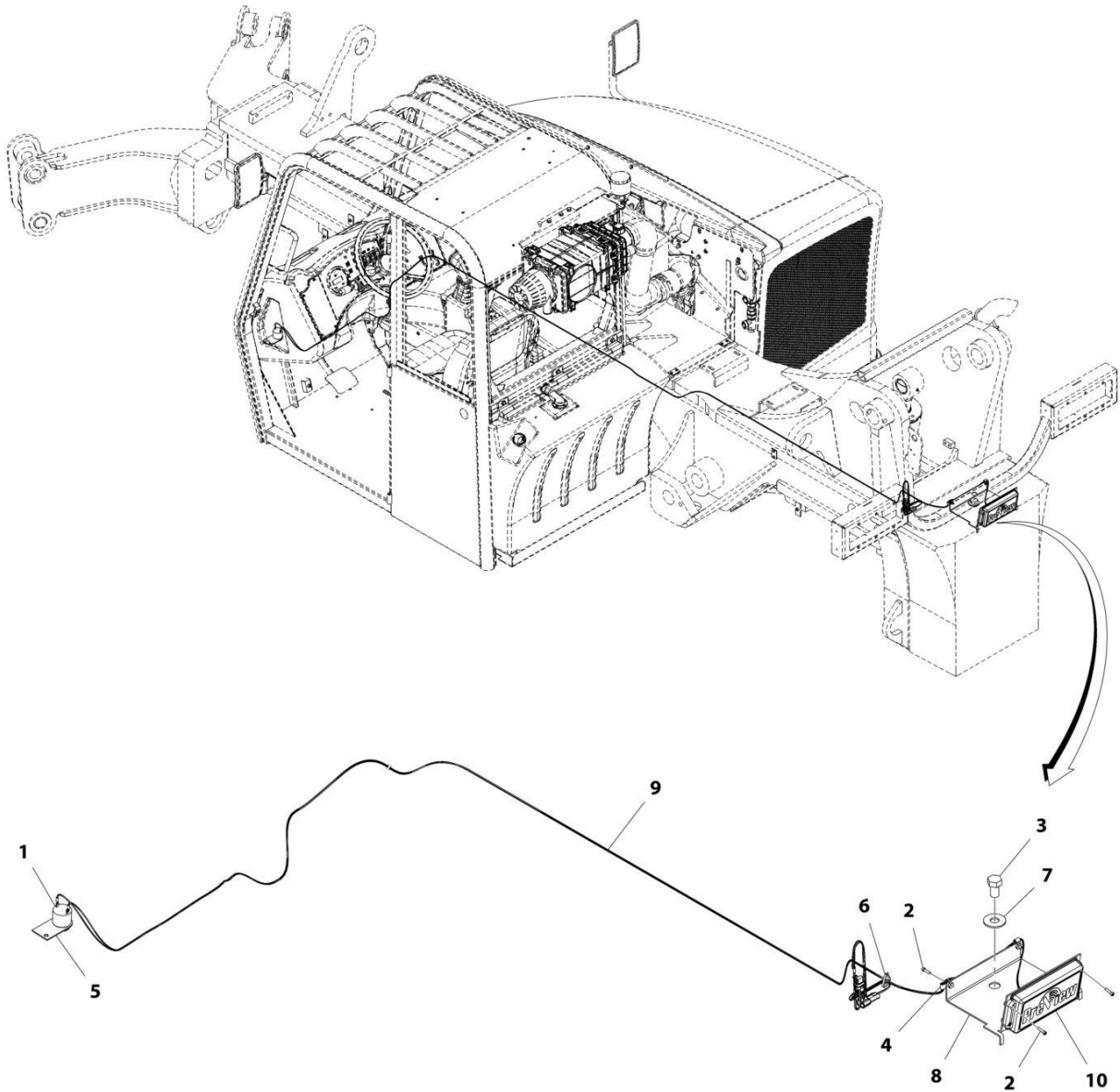
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FIGURE 10-30. CHASSIS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108840	1	CHASSIS HARNESS, (includes all items)	E
1	7026910	1	CONNECTOR	
2	77363228	4	TERMINAL	
3	4460466	6	PLUG	
4	4460502	1	CONNECTOR	
5	77363229	3	CONTACT	
6	7026415	1	CONNECTOR	
7	83481286	2	NUT	
8	83481285	2	LOCK WASHER	
9	77363347	1	CONTACT	
10	4460469	1	CAP	
11	1001116968	1	CONNECTOR	
12	77363345	1	CONTACT	
13	4060518	1	PLUG	
14	80963056	1	CONNECTOR	
15	80963069	1	TERMINAL	
16	80963065	4	SEAL	
17	80484086	1	CONNECTOR	
18	7026414	1	LOCK	
19	4460746	2	TERMINAL	
20	1001116747	1	TERMINAL	
21	80963067	1	SEAL	
22	80484085	1	CONNECTOR	
23	80484084	1	CONNECTOR	
24	80484081	1	CONNECTOR	
25	1001116983	2	CONNECTOR	
26	1001116706	2	TERNINAL	
27	4461006	1	SEAL	
28	7026408	1	CONNECTOR	
29	80604018	1	LOCK	
30	7026413	1	CONNECTOR	
31	7026419	1	CAP	
32	1001117021	1	CONNECTOR	
33	8020890	1	LOCK	
34	4460789	1	SEAL	
35	80963061	1	CONNECTOR	
36	80963068	2	TERMINAL	
37	80963062	1	CONNECTOR	
38	80963070	1	DUST CAP	
39	80963057	1	CONNECTOR	
40	4461006	1	SEAL	
41	3740080	1	RELAY	
42	1001117057	2	CONNECTOR	
43	1001116733	2	TERMINAL	

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FIGURE 10-31. REVERSE SENSING SYSTEM INSTALLATION



ART_1001152538-A

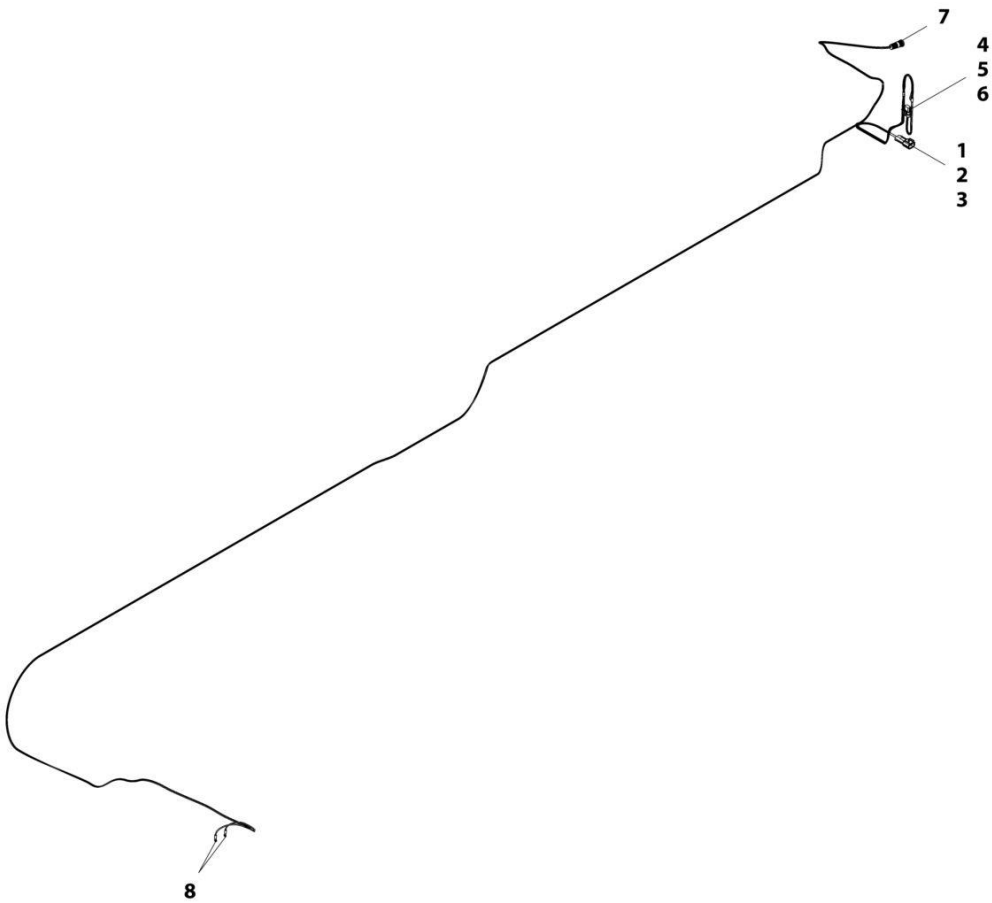
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FIGURE 10-31. REVERSE SENSING SYSTEM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152538	Ref	REVERSE SENSING SYSTEM INSTALLATION	A
1	0140011	1	AUDIBLE SIGNAL DEVICE	
2	3931012	6	BOLT, 10-24X3/4	
3	0642210	1	BOLT, 3/4-10X1 1/4	
4	1320136	2	CLAMP, CABLE	
5	1001182662	1	BRACKET, AUDIBLE ALARM	
6	4240033	AR	STRAP, TIE	
7	4752200	1	WASHER, 3/4	
8	1001152220	1	BRACKET, BACKUP SENSOR	
9	1001153084	1	HARNESS, REVERSE SENSOR, (See Separate Breakdown in this Section)	
10	1001182358	1	CONTROL, REVERSE SENSOR	

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FIGURE 10-32. REVERSE SENSOR HARNESS



ART_1001153084-B

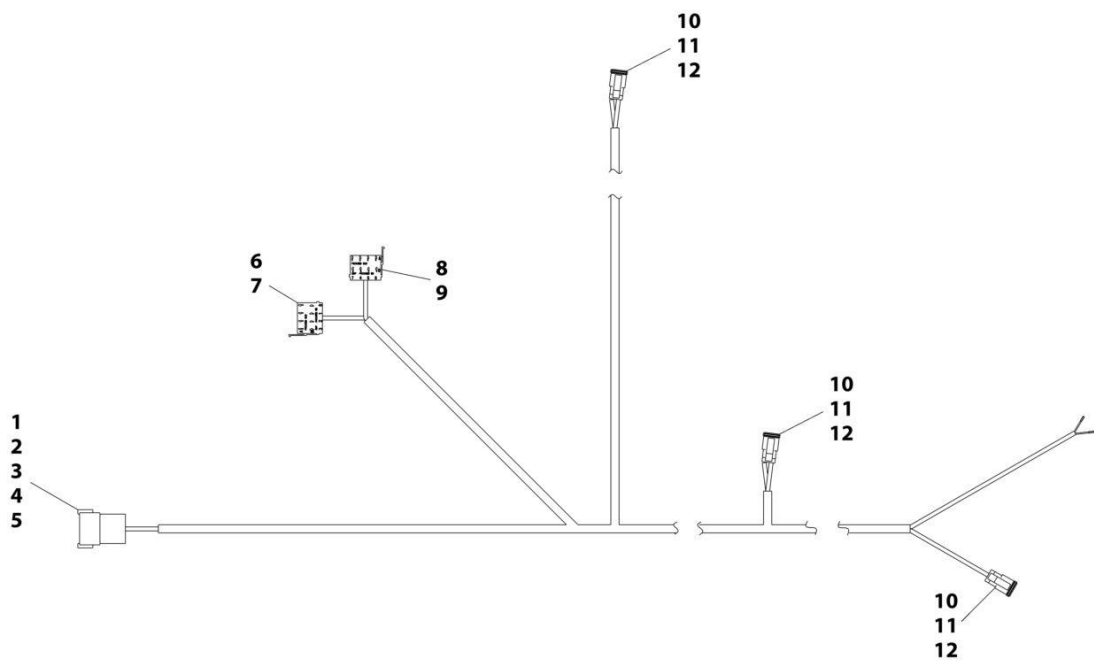
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FIGURE 10-32. REVERSE SENSOR HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001153084	Ref	REVERSE SENSOR HARNESS	B
1	1001117021	1	CONNECTOR	
2	1001116728	2	TERMINAL	
3	4460458	2	TERMINAL, SEAL	
4	1001117026	1	CONNECTOR	
5	1001116745	2	TERMINAL	
6	4460458	2	TERMINAL, SEAL	
7	1001175733	1	CONNECTOR	
8	1001098122	2	TERMINAL, RING	

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FIGURE 10-33. CAB WORK LIGHT HARNESS



ART_1001158896-B

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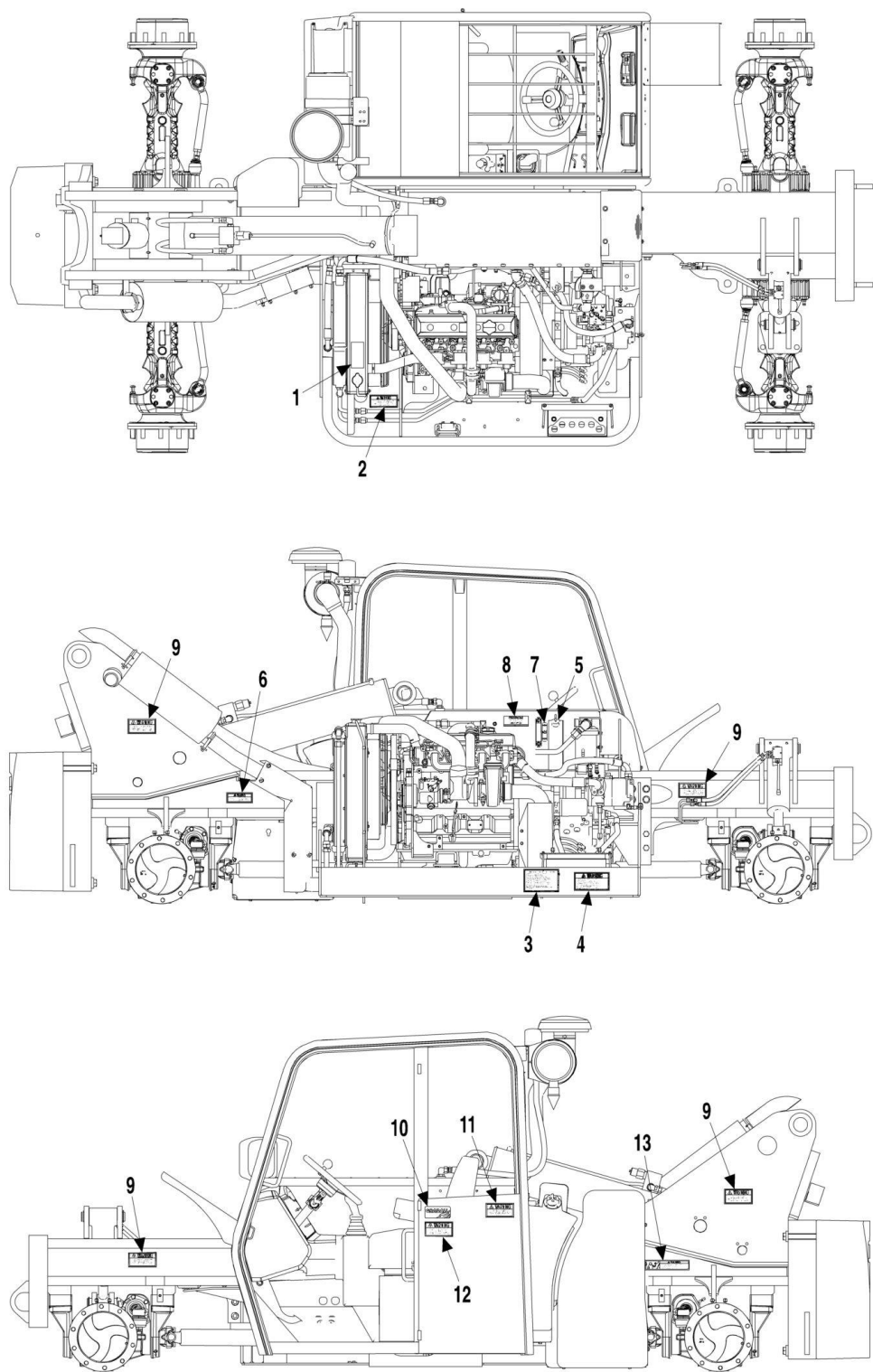
FIGURE 10-33. CAB WORK LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158896	1	CAB WORK LIGHT HARNESS	B
1	91503105	1	CONNECTOR	
2	8220525	1	LOCK	
3	77363229	4	TERMINAL	
4	4460942	2	TERMINAL	
5	4460466	2	TERMINAL, SEALING PLUG	
6	7026439	1	HOUSING	
7	1001118384	5	TERMINAL	
8	7026439	1	HOUSING	
9	1001118384	3	TERMINAL	
10	7026408	3	CONNECTOR	
11	80604018	1	WEDGELOCK	
12	80463058	2	TERMINAL	

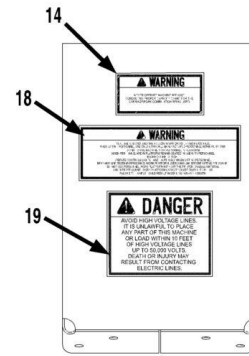
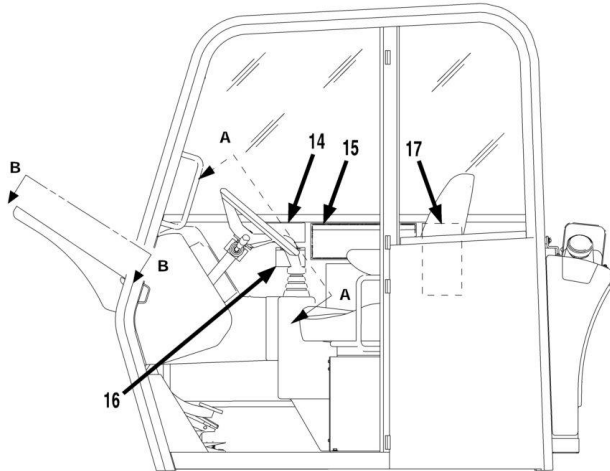
SECTION 11 - DECALS

SECTION 11 - DECALS

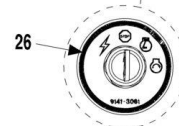
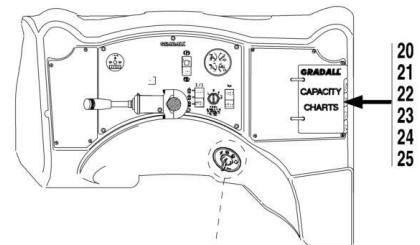
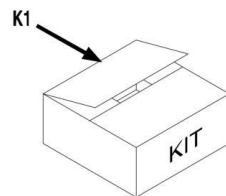
FIGURE 11-1. CAB AND FRAME DECALS (SN 0193001 through 0193007, SN 0160000008 through 0160000668)



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VIEW B-B



VIEW A-A

PY4750

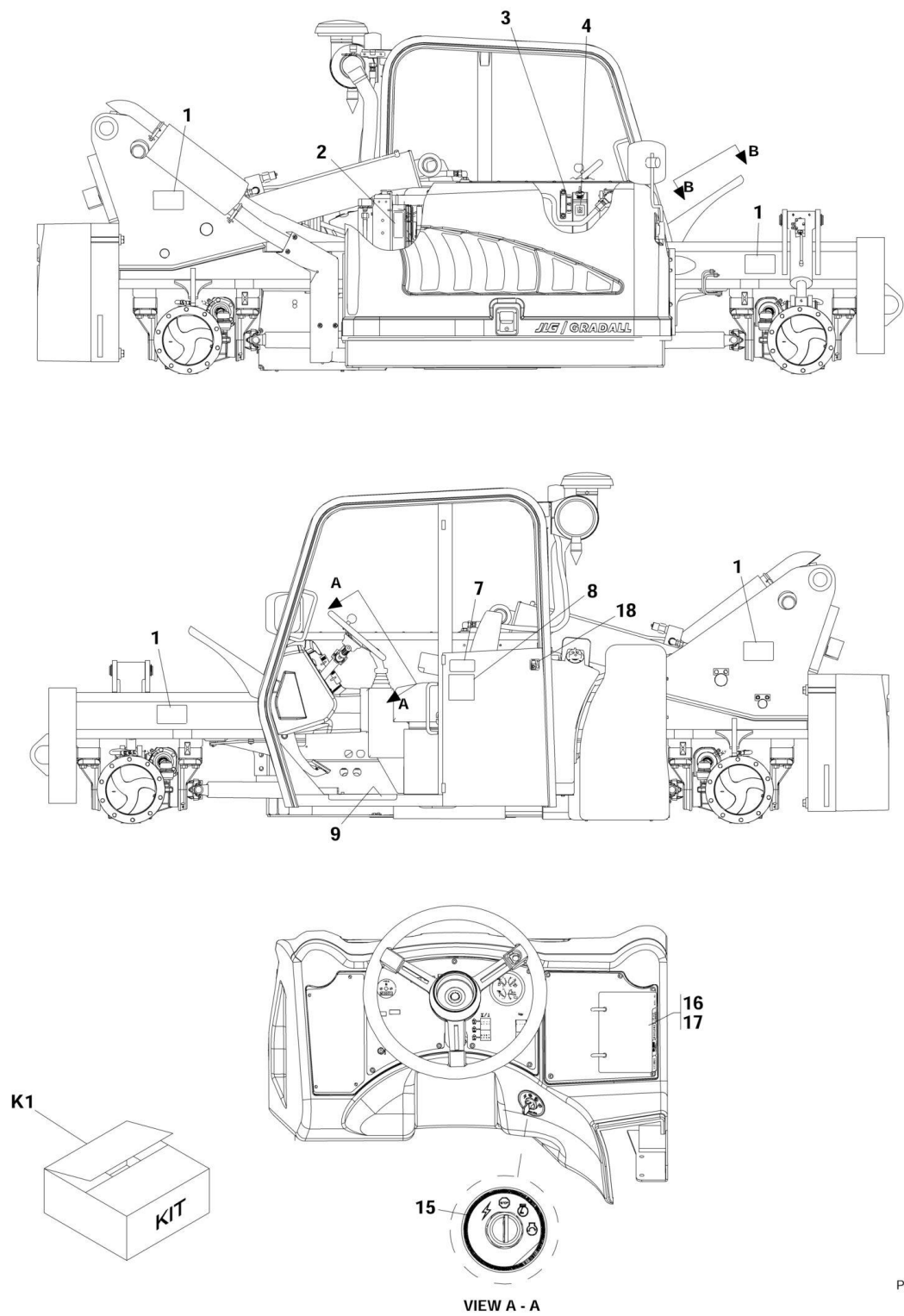
SECTION 11 - DECALS

FIGURE 11-1. CAB AND FRAME DECALS (SN 0193001 through 0193007, SN 0160000008 through 0160000668)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80603026	1	CAUTION DECAL	
2	91143281	1	WARNING DECAL	
3	91143285	1	INSTRUCTION DECAL	
4	91143284	1	WARNING DECAL	
5	91403573	1	HYDRAULIC FLUID DECAL	
6	91143280	1	WARNING DECAL	
7	91513198	1	OIL LEVEL DECAL	
8	91143288	1	HYDRAULIC OIL LEVEL	
9	91143282	4	WARNING DECAL	
10	77333027	1	USA DECAL	
11	91143286	1	WARNING DECAL	
12	91143283	1	WARNING DECAL	
13	91083492	1	OIL WARNING DECAL	
14	91323030	2	WARNING DECAL	
15	90553028	1	WARNING DECAL	
16	91403525	1	BOOM OPERATION DECAL	
17	N.S.S.	1	ATTACHMENT SN PLATE	
18	90553027	1	WARNING DECAL	
19	80603022	1	DANGER DECAL	
20	91403618	1	LOAD CHART COVER	
21	91513042	1	CAPACITY CHART	
22	91513188	1	CAPACITY CHART	
23	91513189	1	CAPACITY CHART	
24	91513190	1	CAPACITY CHART	
25	91513191	1	CAPACITY CHART	
26	91413061	1	IGNITION SWITCH DECAL	
K1	91515073	1	NES DECAL KIT	

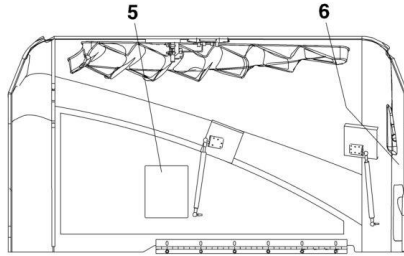
SECTION 11 - DECALS

FIGURE 11-2. CAB AND FRAME DECALS (SN 0160000683 through 0160006218)

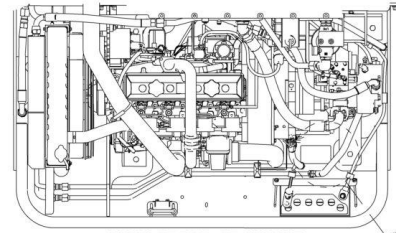


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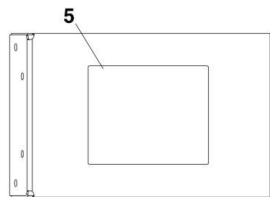
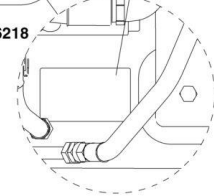
SECTION 11 - DECALS



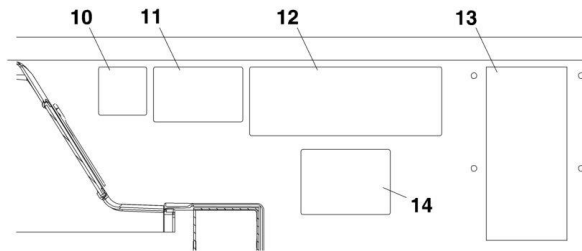
VIEW OF INSIDE OF ENGINE COVER
SN 0160000683 THROUGH 0160001863



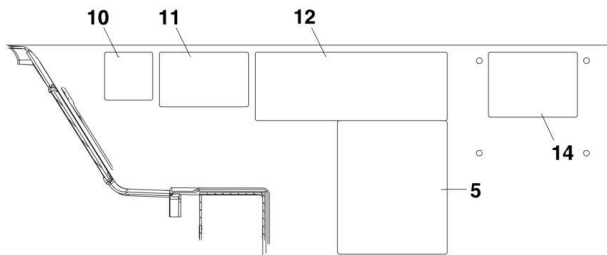
VIEW OF TOP OF ENGINE
SN 0160001867 THROUGH 0160006218



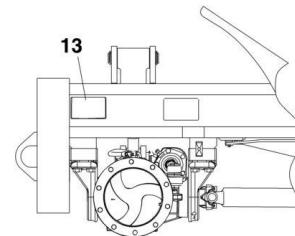
VIEW B - B
SN 0160001867 THROUGH 0160005423



VIEW OF DECALS INSIDE OF CAB ON RIGHT HAND SIDE OF WALL
SN 0160000683 THROUGH 0160005423
(ITEM 13 ONLY SN 0160000683 THROUGH 0160003961)



VIEW OF DECALS INSIDE OF CAB ON RIGHT HAND SIDE OF WALL
SN 0160005444 THROUGH 0160006218



VIEW OF FRONT LEFT SIDE OF MACHINE
SN 0160003988 THROUGH 0160006218

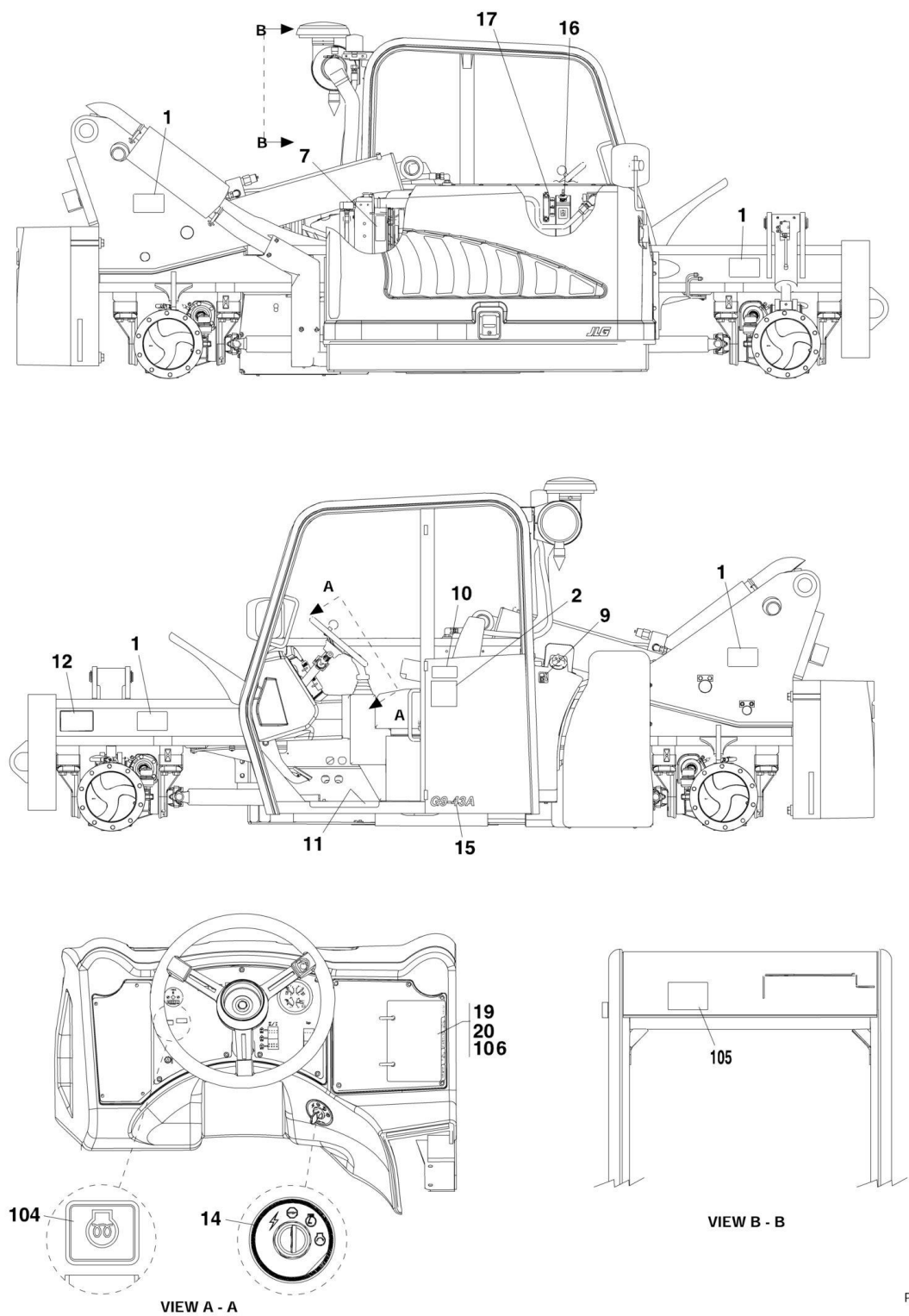
SECTION 11 - DECALS

FIGURE 11-2. CAB AND FRAME DECALS (SN 0160000683 through 0160006218)

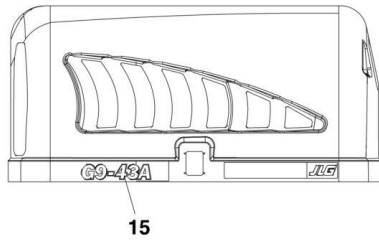
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91503108	4	PINCH POINT DECAL	
2	91503097	1	MOVING PARTS DECAL	
3	91513198	1	OIL LEVEL DECAL	
4	91513209	1	HYDRAULIC FLUID DECAL	
5	91513192	1	SERVICE INSTRUCTION PLATE	
6	91503099	1	BATTERY WARNING DECAL	
7	77333027	1	USA DECAL	
8	91503109	1	NO RIDERS DECAL	
9	91473210	NLA	NON-SKID FLOOR, (no longer available, use 1001152569 for replacement)	
9	1001152569	1	NON-SKID FLOOR	
10	91503102	1	BOOM CONTROL DECAL	
11	91503110	1	HIGH VOLTAGE DECAL	
12	91503098	1	SAFE OPERATION DECAL	
13	N.S.S.	1	ATTACHMENT SN PLATE	
14	91513208	1	LIFTING PERSONNEL DECAL	
15	91413061	1	IGNITION SWITCH DECAL	
16	91513207	1	LOAD CHART COVER	
17	91513042	1	CAPACITY CHART	
17	91513188	1	CAPACITY CHART	
17	91513189	1	CAPACITY CHART	
17	91513190	1	CAPACITY CHART	
17	91513191	1	CAPACITY CHART	
18	1701505	1	DIESEL FUEL DECAL	
K1	91515073	1	NES DECAL KIT	

SECTION 11 - DECALS

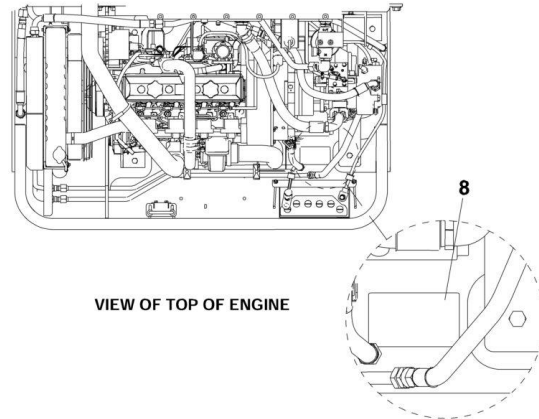
FIGURE 11-3. CAB AND FRAME DECALS (SN 0160006234 through 0160040674, Excluding 0160040468 and 0160040672)



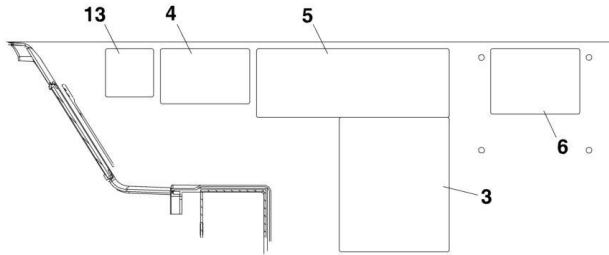
SECTION 11 - DECALS



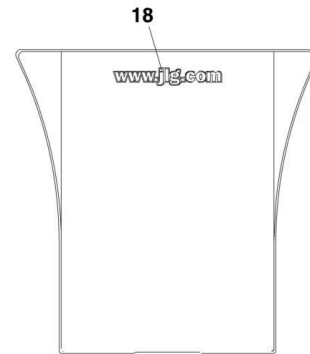
VIEW OF ENGINE COVER



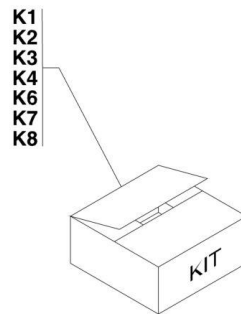
VIEW OF TOP OF ENGINE



VIEW OF DECALS INSIDE OF CAB ON RIGHT HAND SIDE OF WALL



VIEW OF COUNTERWEIGHT



ART_91514001-11-3_2

SECTION 11 - DECALS

FIGURE 11-3. CAB AND FRAME DECALS (SN 0160006234 through 0160040674, Excluding 0160040468 and 0160040672)

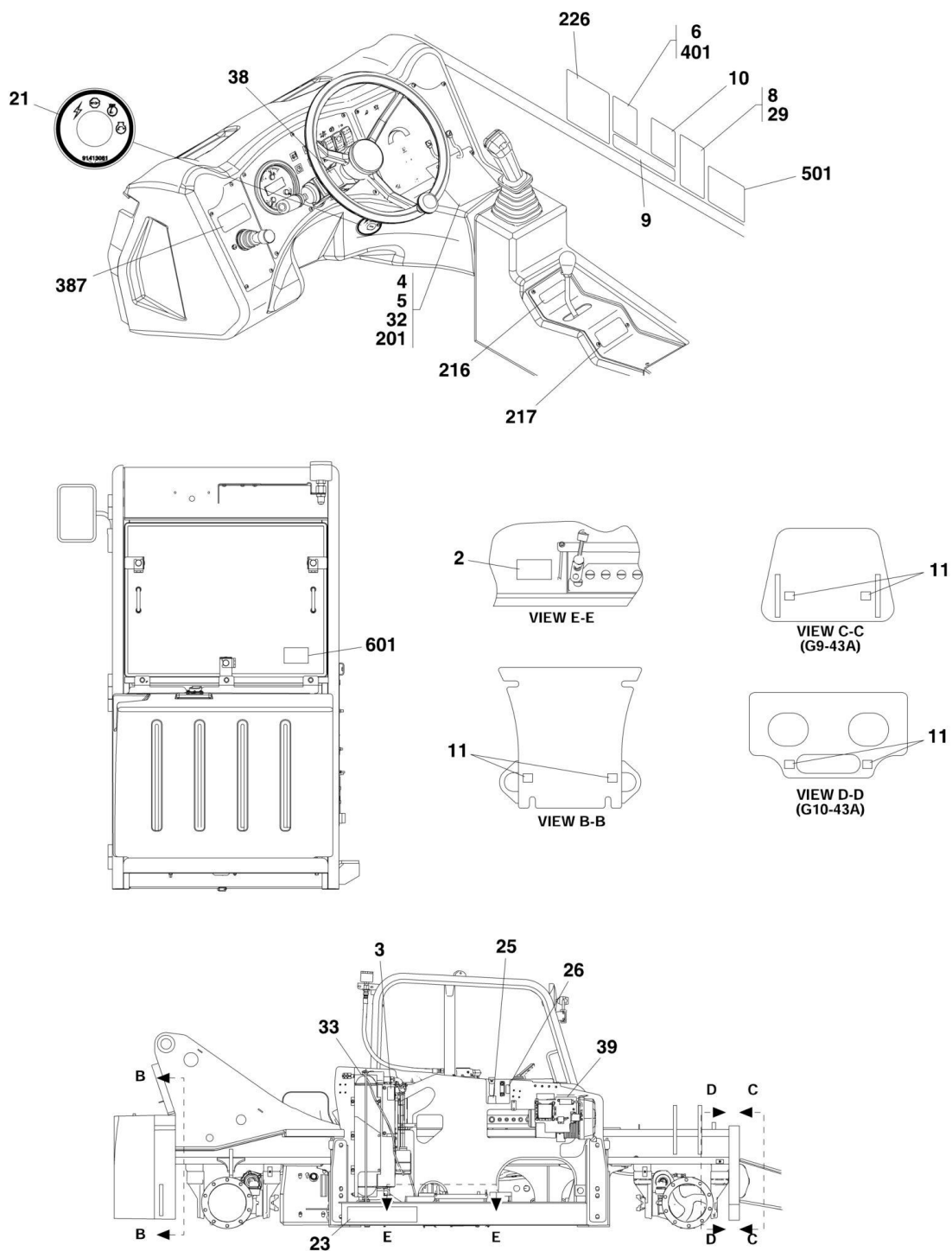
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91503108	4	PINCH POINT DECAL	
2	91503109	1	NO RIDERS DECAL	
3	91513192	1	SERVICE INSTRUCTION PLATE (G9-43A) (Prior to SN 0160040069)	
3	91473217	1	SERVICE INSTRUCTION PLATE (G9-43A) (SN 0160040121 through 0160040674)	
3	1001112773	1	SERVICE INSTRUCTION PLATE (G10-43A)	
4	91503110	1	HIGH VOLTAGE DECAL	
5	91503098	1	SAFE OPERATION DECAL	
6	91513208	2	LIFTING PERSONNEL DECAL	
7	91503097	1	MOVING PARTS DECAL	
8	91503099	1	BATTERY WARNING DECAL	
9	1701505	1	DIESEL FUEL DECAL	
10	3251813	1	USA DECAL	
11	91473210	NLA	NON-SKID FLOOR, (no longer available, use 1001152569 for replacement)	
11	1001152569	1	NON-SKID FLOOR	
12	N.S.S.	1	SN PLATE	
13	91503102	1	BOOM OPERATION DECAL	
14	91413061	1	IGNITION SWITCH DECAL	
15	1706188	2	DECAL - MODEL (G9-43A)	
15	1001112770	2	DECAL - MODEL (G10-43A)	
16	91513209	1	HYDRAULIC FLUID DECAL	
17	91513198	1	OIL LEVEL DECAL	
18	1704885	1	WEBSITE DECAL	
19	91513207	1	CAPACITY CHART COVER (G9-43A) (Prior to SN 0160037671)	
19	1001106002		CAPACITY CHART BOOKLET (G9-43A) (SN 0160037671 to Present)	
19	1001110715	1	CAPACITY CHART COVER (G9-43A) (SN 0160037671 to Present)	
19	1001113013		CAPACITY CHART BOOKLET (G10-43A)	
19	1001113014	1	CAPACITY CHART COVER (G10-43A)	
20	91513042	1	CAPACITY CHART, SLOPE PILER CARRIAGE (G9-43A) (Prior to SN 0160037671)	
20	1001106034	1	CAPACITY CHART, STD CARRIAGE (G9-43A) (SN 0160037671 to Present)	
20	1001113015	1	CAPACITY CHART, STD CARRIAGE (G10-43A)	
20	91513188	1	CAPACITY CHART, DRYWALL CARRIAGE (G9-43A) (Prior to SN 0160037671)	
20	1001106059	1	CAPACITY CHART, TILT CARRIAGE (G9-43A) (SN 0160037671 to Present)	
20	1001113016	1	CAPACITY CHART, TILT CARRIAGE (G10-43A)	
20	91513189	1	CAPACITY CHART, SWING MAST (G9-43A) (Prior to SN 0160037671)	
20	1001106084	1	CAPACITY CHART, SWING CARRIAGE (G9-43A) (SN 0160037671 to Present)	
20	1001113017	1	CAPACITY CHART, SWING CARRIAGE (G10-43A)	
20	91513190	1	CAPACITY CHART, TRUSS BOOM (G9-43A) (Prior to SN 0160037671)	
20	1001106134	1	CAPACITY CHART, TRUSS BOOM (G9-43A) (SN 0160037671 to Present)	

SECTION 11 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
20	1001113019	1	CAPACITY CHART, TRUSS BOOM (G10-43A)	D
20	1001106109	1	CAPACITY CHART, 102IN BUCKET (G9-43A) (SN 0160037671 to Present)	
20	1001113018	1	CAPACITY CHART, BUCKET (G10-43A)	
20	91513191	1	CAPACITY CHART, PERSONNEL PLATFORM (G9-43A) (Prior to SN 0160037671)	
20	1001156119	1	CAPACITY CHART, STD CARRIAGE LIFT LUG (G9-43A)	
20	1001156120	1	CAPACITY CHART, STD CARRIAGE LIFT LUG (G10-43A)	
20	1001110402	1	SUPPLEMENTAL CAPACITY CHART BOOKLET (G9-43A)	
20	1001106188	1	CAPACITY CHART, GRAPPLE BUCKET (G9-43A)	
20	1001106223	1	CAPACITY CHART, TRUSS BOOM WITH WINCH (G9-43A)	
20	1001106293	1	CAPACITY CHART, MAST (G9-43A)	
20	1001156127	1	CAPACITY CHART, SIDE SHIFT (G9-43A)	
20	1001115257	1	SUPPLEMENTAL CAPACITY CHART BOOKLET (G10-43A)	
20	1001115258	1	CAPACITY CHART, GRAPPLE BUCKET (G10-43A)	
20	1001115259	1	CAPACITY CHART, TRUSS BOOM WITH WINCH (G10-43A)	
20	1001115260	1	CAPACITY CHART, MAST (G10-43A)	
20	1001115261	1	CAPACITY CHART, SIDE SHIFT (G10-43A)	
20	1001156128	1	CAPACITY CHART, BACK COVER (G10-43A)	
104	1001090005	1	ENGINE PREHEAT DECAL, (Perkins Engines only) (SN 0160020943 to Present)	
105	1706300	1	WARNING DECAL, (Perkins Engines only) (SN 0160020943 to Present)	
106	1001114982	1	LUBRICATION CHART DECAL (G9-43A)	
106	1001115116	1	LUBRICATION CHART DECAL (G10-43A)	
K1	91515050	Ref	DECAL KIT, WHITE, (includes items 1 thru 10 & 13 thru 18 and items 1, 3 thru 5, 11 & 12 See BOOM DECALS) (SN 0160006234 to Present)	
K2	91515070	1	SPANISH DECAL KIT	
K3	91515072	1	NATIONS RENT DECAL KIT	
K4	91515073	1	NES RENTALS DECAL KIT	
K6	91515055	1	UNITED RENTALS DECAL KIT	
K7	91515074	1	H AND E DECAL KIT	
K8	1001094529	1	R AND S DECAL KIT	

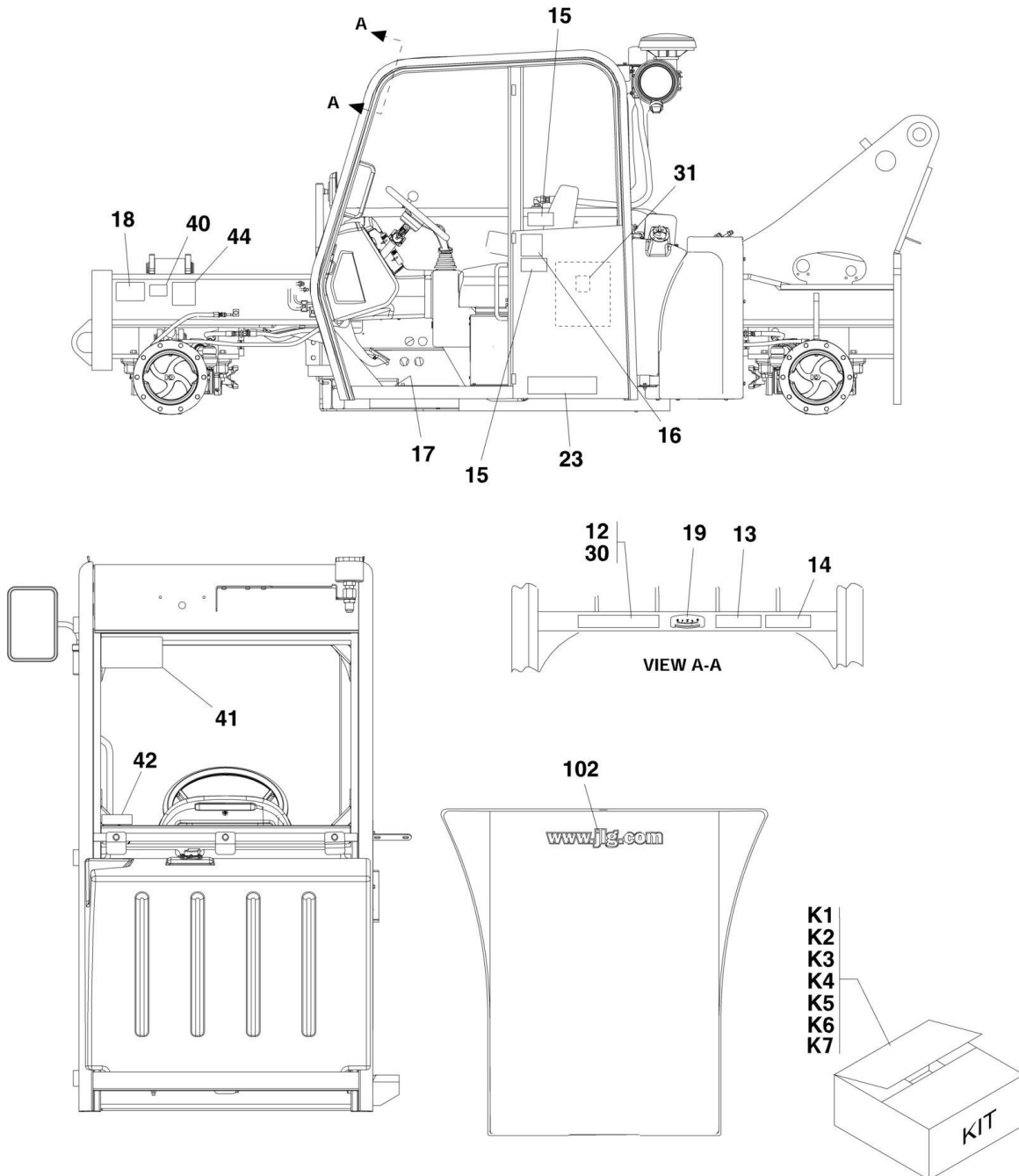
SECTION 11 - DECALS

FIGURE 11-4. CAB AND FRAME DECALS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



ART_91514001-11-4_1

SECTION 11 - DECALS



ART_91514001-11-4_2

SECTION 11 - DECALS

FIGURE 11-4. CAB AND FRAME DECALS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115110	Ref	DECAL INSTALLATION (ANSI) (not available to order, see items 2 thru 33, 38, 39, 40 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G9-43A)	C, 5
	1001115111	Ref	DECAL INSTALLATION (ISO) (not available to order, see items 2 thru 33, 38, 39, 40 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G9-43A)	D, 5
	1001163581	Ref	DECAL INSTALLATION (FRENCH) (not available to order, see items 2 thru 26, 31, 32, 33, 40 thru 44 & See CAB AND FRAME DECALS and items 1, 7, 22, 24 & 34 thru 37 See BOOM DECALS) (G9-43A)	B
	1001115112	Ref	DECAL INSTALLATION (ANSI) (not available to order, see items 2 thru 33, 38, 39, 40 & 401 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G10-43A)	C, 5
	1001115113	Ref	DECAL INSTALLATION (ISO) (not available to order, see items 2 thru 33, 38, 39, 40 & 401 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G10-43A)	D, 5
	1001163582	Ref	DECAL INSTALLATION (FRENCH) (not available to order, see items 2 thru 26, 31, 32, 33, 40 thru 44 & See CAB AND FRAME DECALS and items 1, 7, 22, 24 & 34 thru 37 See BOOM DECALS) (G10-43A)	B
2	1706296	1	BATTERY DECAL, (ANSI)	
2	1706281	1	BATTERY DECAL, (ISO)	
2	1001163174	1	BATTERY DECAL, (FRENCH)	
3	1706301	1	ROTATING PARTS DECAL, (ANSI)	
3	1706285	1	ROTATING PARTS DECAL, (ISO)	
3	1001163222	1	ROTATING PARTS DECAL, (FRENCH)	
4	1001130782	1	LUBRICATION CHART DECAL (G9-43A)	
4	1001130792	1	LUBRICATION CHART DECAL (G10-43A)	
5	1001130802	1	MAINTENANCE CHART DECAL	
6	1706851	1	DO NOT JUMP WARNING DECAL, (ANSI)	
6	1706283	1	DO NOT JUMP WARNING DECAL, (ISO)	
6	1001163321	1	DO NOT JUMP WARNING DECAL, (FRENCH)	
8	1706304	1	RUN OVER DECAL, (ANSI)	
8	1706293	1	RUN OVER DECAL, (ISO)	
8	1001163276	1	RUN OVER DECAL, (FRENCH)	
9	1706303	1	READ MANUAL DECAL, (ANSI)	
9	1706287	1	READ MANUAL DECAL, (ISO)	
9	1001163273	1	READ MANUAL DECAL, (FRENCH)	
10	1706767	1	MACHINE ROLL DECAL, (ANSI)	
10	1706289	1	MACHINE ROLL DECAL, (ISO)	
10	1001163291	1	MACHINE ROLL DECAL, (FRENCH)	
11	4109801	4	TIE-DOWN DECAL	
11	1702300	4	TIE-DOWN DECAL, (FRENCH)	
12	1706306	1	TIP OVER DECAL, (ANSI)	
12	1706288	1	TIP OVER DECAL, (ISO)	
12	1001163285	1	TIP OVER DECAL, (FRENCH)	
13	1706299	1	ELECTROCUTION HAZARD DECAL, (ANSI)	
13	1706284	1	ELECTROCUTION HAZARD DECAL, (ISO)	
13	1001163210	1	ELECTROCUTION HAZARD DECAL, (FRENCH)	
14	1706850	1	CRUSH HAZARD WARNING DECAL, (ANSI)	
14	1001092877	1	CRUSH HAZARD WARNING DECAL, (ISO)	
14	1001163304	1	CRUSH HAZARD WARNING DECAL, (FRENCH)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
15	1706768	1	NO RIDERS DECAL, (ANSI)	
15	1001092878	1	NO RIDERS DECAL, (ISO)	
15	1001163300	1	NO RIDERS DECAL, (FRENCH)	
16	3251813	1	BUILT IN THE USA NAMEPLATE	
17	91473210	1	NON SKID FLOOR	
17	1001152569	1	NON SKID FLOOR, (FRENCH)	
18	N.S.S.	1	SN PLATE	
19	8466306	1	TILT ANGLE GAUGE	
21	91413061	1	IGNITION SWITCH DECAL	
23	1706188	2	DECAL - MODEL (G9-43A)	
23	1001112770	2	DECAL - MODEL (G10-43A)	
25	4100181	1	HYDRAULIC FLUID DECAL	
26	91563220	1	OIL LEVEL DECAL	
29	1001115205	1	RIGHT SIDE DASH DECAL KIT, (ANSI), (includes items 6 thru 10)	1
29	1001115206	1	RIGHT SIDE DASH DECAL KIT, (ISO), (includes items 6 thru 10)	1
30	1001115208	1	CAB DECAL KIT, (ANSI), (includes items 201 thru 205)	1
30	1001115209	1	CAB DECAL KIT, (ISO), (includes items 201 thru 205)	1
31	1701640	1	MANUAL DECAL	
32	1001130920	1	MAINTENANCE CHART DECAL	
33	1001109053	1	COOLANT FILL DECAL	
38	91163028	1	SHIFTER DECAL	
39	1706300	1	ETHER STARTING WARNING DECAL, (ANSI)	
39	1706098	1	ETHER STARTING WARNING DECAL, (ISO)	
40	1001131271	1	PATENT TELEHANDLERS DECAL	
41	1001163212	1	DECAL, WARNING NO EITHER, (FRENCH)	
42	1001163355	1	DECAL, ULTRA LOW SULFUR DIESEL (FRENCH)	
43	1001163323	1	DECAL, WARNING HOT FLUID (FRENCH), (not shown)	
44	1702631	1	DECAL, BAR CODE	
102	1704885	1	WEBSITE DECAL	
201	1001130663	1	CAPACITY CHART BOOKLET, (G9-43A), (ANSI) (G9-43A)	C
201	1001130662	1	FRONT COVER (ANSI) (G9-43A)	
201	1001150777	1	STANDARD CARRIAGE (ANSI) (G9-43A)	
201	1001130671	1	TILT CARRIAGE (ANSI) (G9-43A)	
201	1001130672	1	SWING CARRIAGE (ANSI) (G9-43A)	
201	1001130676	1	BUCKET, 102 IN (ANSI) (G9-43A)	
201	1001130678	1	TRUSS BOOM, 15 FT (ANSI) (G9-43A)	
201	1001150778	1	STANDARD CARRIAGE LIFT LUG (ANSI) (G9-43A)	
201	1001130825	1	CAPACITY CHART BOOKLET (ISO) (G9-43A)	C
201	1001130826	1	FRONT COVER (ISO) (G9-43A)	
201	1001150779	1	STANDARD CARRIAGE (ISO) (G9-43A)	
201	1001130828	1	TILT CARRIAGE (ISO) (G9-43A)	
201	1001130829	1	SWING CARRIAGE (ISO) (G9-43A)	
201	1001130830	1	BUCKET, 102 IN (ISO) (G9-43A)	
201	1001130831	1	TRUSS BOOM, 15 FT (ISO) (G9-43A)	
201	1001150780	1	STANDARD CARRIAGE LIFT LUG (ISO) (G9-43A)	
201	1001130935	1	CAPACITY CHART BOOKLET (ANSI) (G10-43A)	B
201	1001150781	1	FRONT COVER, (G10-43A), (ANSI) (G10-43A)	
201	1001150782	1	STANDARD CARRIAGE, (G10-43A), (ANSI) (G10-43A)	
201	1001130938	1	TILT CARRIAGE (ANSI) (G10-43A)	
201	1001130939	1	SWING CARRIAGE (ANSI) (G10-43A)	
201	1001130940	1	BUCKET, 102 IN (ANSI) (G10-43A)	

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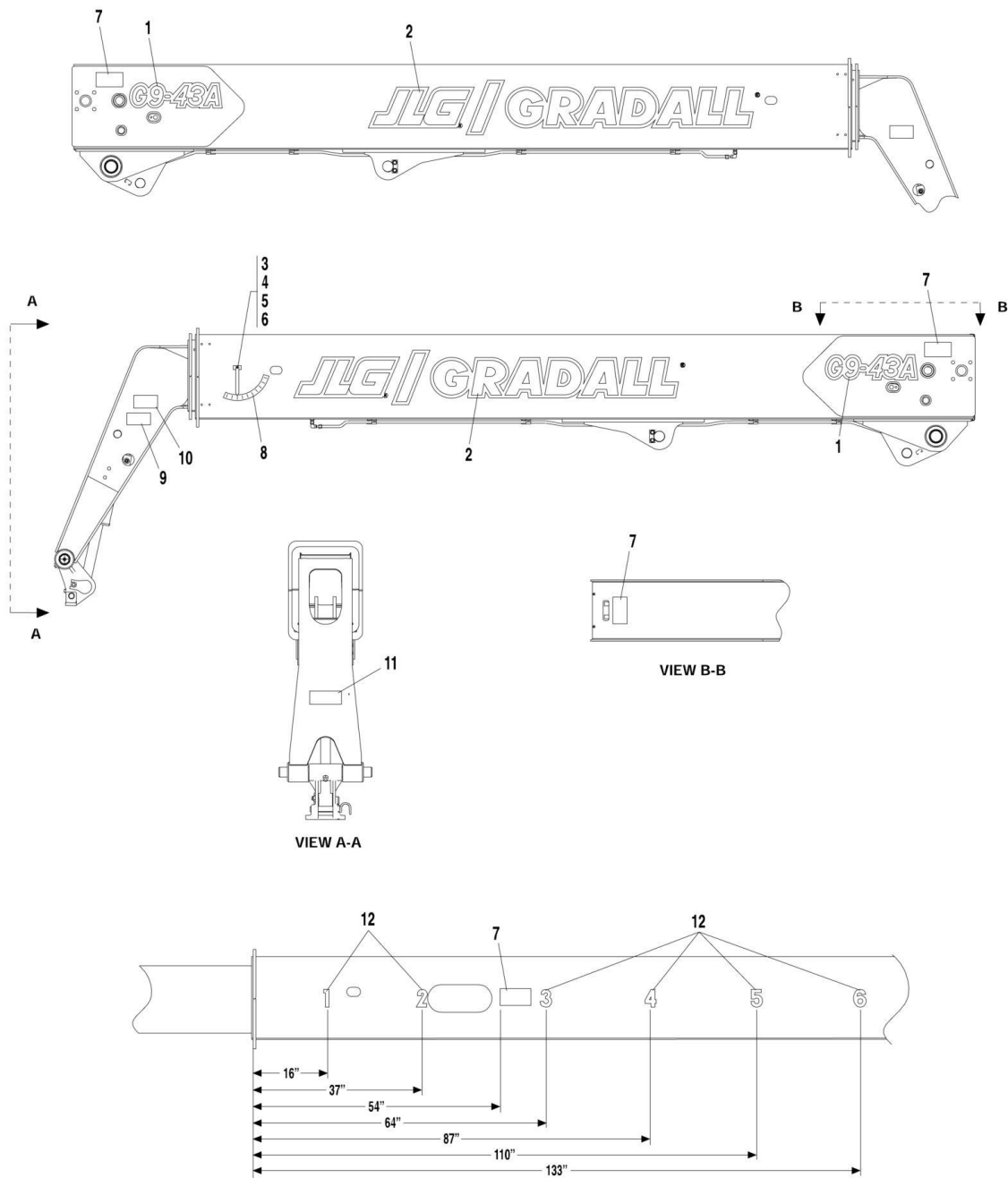
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	1001150783	1	TRUSS BOOM, 15 FT (ANSI) (G10-43A)	C
201	1001150785	1	STANDARD CARRIAGE LIFT LUG (ANSI) (G10-43A)	
201	1001115117	1	CAPACITY CHART BOOKLET (ISO) (G10-43A) (Prior to SN 0160042701)	
201	1001115118	1	FRONT COVER (ISO) (G10-43A)	
201	1001115119	1	STANDARD CARRIAGE (ISO) (G10-43A)	
201	1001115120	1	TILT CARRIAGE (ISO) (G10-43A)	
201	1001115121	1	SWING CARRIAGE (ISO) (G10-43A)	
201	1001115122	1	BUCKET, 102 IN (ISO) (G10-43A)	
201	1001115123	1	TRUSS BOOM, 15 FT (ISO) (G10-43A)	
201	1001156125	1	STANDARD CARRIAGE LIFT LUG (ISO) (G10-43A)	
201	1001132131	1	CAPACITY CHART BOOKLET (ISO) (G10-43A) (SN 0160042701 to Present)	C
201	1001150786	1	FRONT COVER (ISO) (G10-43A)	
201	1001150787	1	STANDARD CARRIAGE (ISO) (G10-43A)	
201	1001132127	1	TILT CARRIAGE (ISO) (G10-43A)	
201	1001132128	1	SWING CARRIAGE (ISO) (G10-43A)	
201	1001132129	1	BUCKET, 102 IN (ISO) (G10-43A)	
201	1001150788	1	TRUSS BOOM, 15 FT (ISO) (G10-43A)	
201	1001150789	1	STANDARD CARRIAGE LIFT LUG (ISO) (G10-43A)	
201	1001130708	1	OPTIONAL CAPACITY CHART BOOKLET (ANSI) (G9-43A)	
201	1001130709	1	GRAPPLE BUCKET (ANSI) (G9-43A)	D
201	1001130710	1	TRUSS BOOM WITH WINCH (ANSI) (G9-43A)	
201	1001130711	1	VERTICAL MAST (ANSI) (G9-43A)	
201	1001146993	1	SIDE SHIFT (ANSI) (G9-43A)	
201	1001189292	1	TRUSS BOOM (ANSI) (G9-43A)	
201	1001130818	1	OPTIONAL CAPACITY CHART BOOKLET (ISO) (G9-43A)	
201	1001130819	1	GRAPPLE BUCKET (ISO) (G9-43A)	
201	1001130820	1	TRUSS BOOM WITH WINCH (ISO) (G9-43A)	
201	1001130821	1	VERTICAL MAST (ISO) (G9-43A)	
201	1001146994	1	SIDE SHIFT (ISO) (G9-43A)	
201	1001191514	1	TRUSS BOOM ADJ (ISO) (G9-43A)	C
201	1001130844	1	OPTIONAL CAPACITY CHART BOOKLET (ANSI) (G10-43A)	
201	1001130845	1	GRAPPLE BUCKET (ANSI) (G10-43A)	
201	1001130846	1	TRUSS BOOM WITH WINCH (ANSI) (G10-43A)	
201	1001130847	1	VERTICAL MAST (ANSI) (G10-43A)	
201	1001146995	1	SIDE SHIFT (ANSI) (G10-43A)	
201	1001146996	1	SIDE SHIFT (ANSI) (G10-43A)	
201	1001189294	1	TRUSS BOOM (ANSI) (G10-43A)	
201	1001130852	1	OPTIONAL CAPACITY CHART BOOKLET (ISO) (G10-43A)	
201	1001130853	1	GRAPPLE BUCKET (ISO) (G10-43A)	C
201	1001130854	1	TRUSS BOOM WITH WINCH (ISO) (G10-43A)	
201	1001130855	1	VERTICAL MAST (ISO) (G10-43A)	
201	1001146997	1	SIDE SHIFT CARRIAGE (ISO) (G10-43A)	
201	1001146998	1	BACK COVER (ISO) (G10-43A)	
201	1001191515	1	TRUSS BOOM (ISO) (G10-43A)	
216	1001108836	1	TILT/SWAY DECAL (G9-43A)	
216	1001108847	1	SWAY DECAL	
217	1001131509	1	AUX HYDRAULIC DECAL (G9-43A)	
217	1001111229	1	OUTRIGGERS DECAL (G10-43A)	
226	1001109459	1	BOOM CONTROL DECAL (G9-43A)	
226	1001109458	1	BOOM CONTROL DECAL	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
387	1001108853	1	AUX HYDRAULIC DECAL (SN 0160040468 through 0160041950, Excluding 0160040971)	
387	1001131509	1	AUX HYDRAULIC DECAL (SN 0160041960 to Present, Including 0160040971)	
401	4107971	1	OUTRIGGER CONTACT WARNING DECAL (ANSI) (G10-43A)	
401	1706279	1	OUTRIGGER CONTACT WARNING DECAL (ISO) (G10-43A)	
501	1001160072	1	DECAL, REVERSE SENSING SYSTEM, (ANSI)	
501	1001160945	1	DECAL, REVERSE SENSING SYSTEM, (ENGILISH\FRENCH)	
501	1001160916	1	DECAL, REVERSE SENSING SYSTEM, (ISO)	
601	1001160071	1	DECAL, REAR WINDOW EXIT (ENGLISH)	
601	1001160787	1	DECAL, REAR WINDOW EXIT (ENGLISH/FRANCE)	
601	1001160912	1	DECAL, REAR WINDOW EXIT (ISO)	
K1	91475063	1	SUNBELT DECAL KIT	
K2	91515055	1	UNITED RENTALS DECAL KIT	
K3	91515073	1	NES RENTALS DECAL KIT	
K4	91515074	1	H AND E DECAL KIT	
K5	1001094529	1	RSC DECAL KIT (G9-43A)	
K6	1001128553	1	HERTZ DECAL KIT (G9-43A)	
K7	1001141458	1	LEAVITT DECAL KIT	

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FIGURE 11-5. BOOM DECALS (SN 0193001 through 0193007, SN 0160000008 through 0160000668)



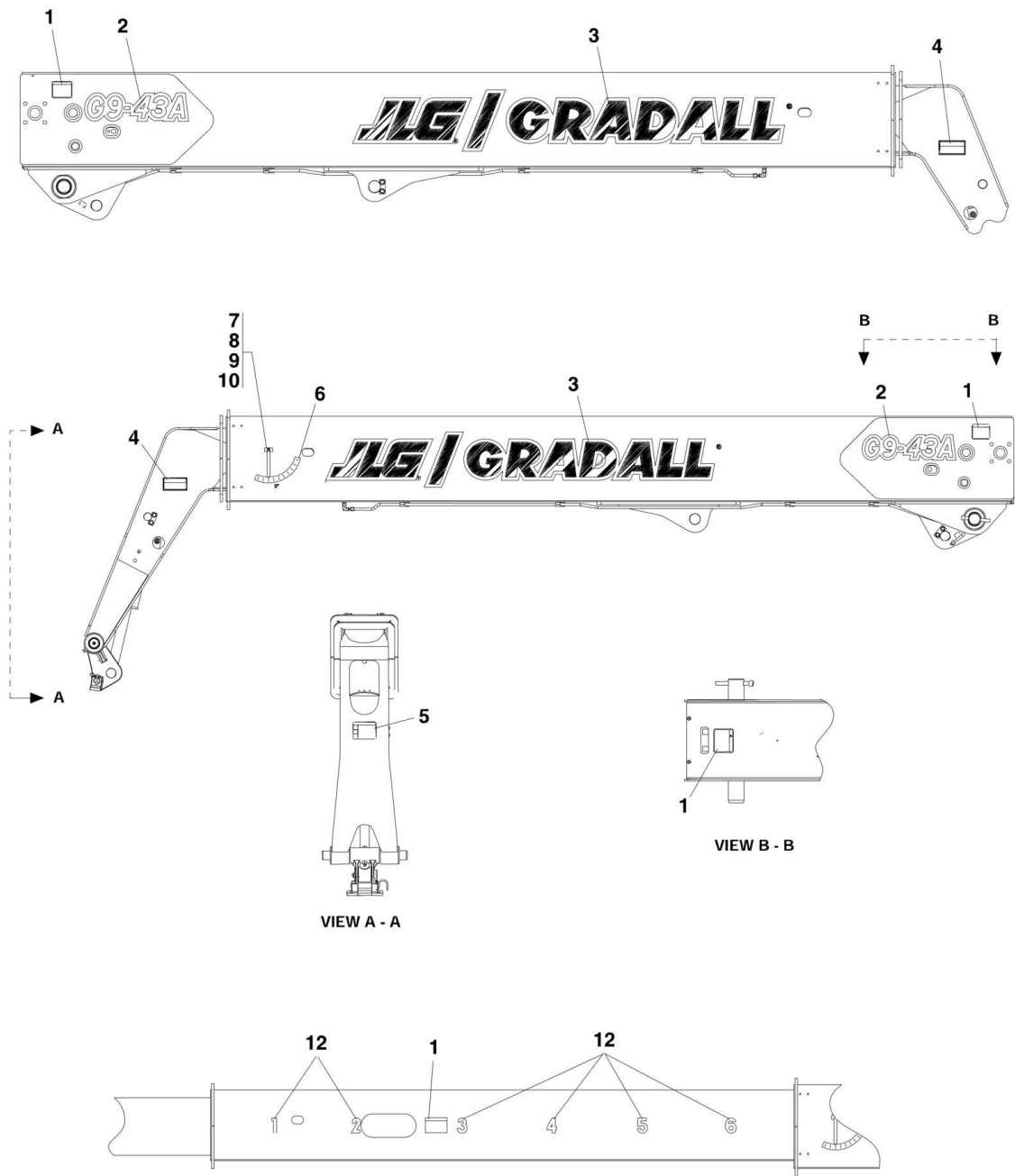
SECTION 11 - DECALS

FIGURE 11-5. BOOM DECALS (SN 0193001 through 0193007, SN 0160000008 through 0160000668)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91513043	2	DECAL - MODEL (G9-43A)	
2	91473132	2	JLG/GRADALL DECAL - WHITE	
3	90200445	1	PENDULUM	
4	90200688	1	BEARING	
5	90026491	1	SHOULDER BOLT, 1/4-20	
6	88561108	1	FLAT WASHER, 5/16	
7	80603037	5	WARNING DECAL	
8	91003031	1	BOOM ANGLE DECAL - WHITE	
9	91143290	1	WARNING DECAL	
10	91143282	2	WARNING DECAL	
11	90553026	1	WARNING DECAL	
12	91553072	1	BOOM NUMBERS DECAL KIT	

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FIGURE 11-6. BOOM DECALS (SN 0160000683 through 0160006218)



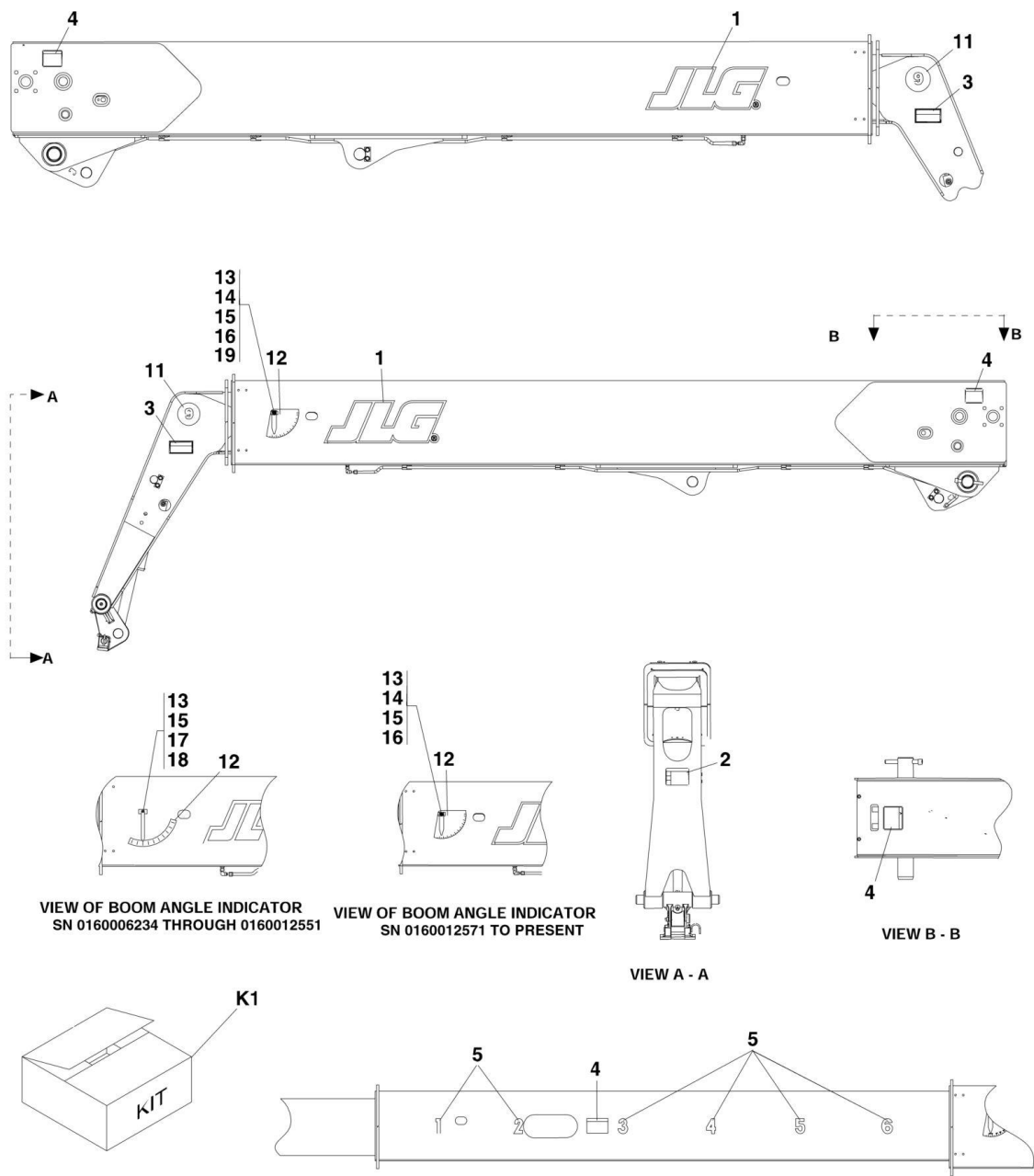
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FIGURE 11-6. BOOM DECALS (SN 0160000683 through 0160006218)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91513210	5	PINCH POINT DECAL	
2	91513043	2	DECAL - MODEL (G9-43A)	
3	91473132	2	JLG/GRADALL DECAL - WHITE	
4	91143282	2	WARNING DECAL	
5	91513208	1	LIFTING PERSONNEL DECAL	
6	91003031	1	BOOM ANGLE DECAL - WHITE	
7	90200445	1	PENDULUM	
8	90200688	1	BEARING	
9	90026491	1	SHOULDER BOLT, 1/4-20	
10	88561108	1	FLAT WASHER, 5/16	
12	91553072	1	BOOM NUMBERS DECAL KIT	

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FIGURE 11-7. BOOM DECALS (SN 0160006234 through 0160040674, Excluding 0160040468 and 0160040672)



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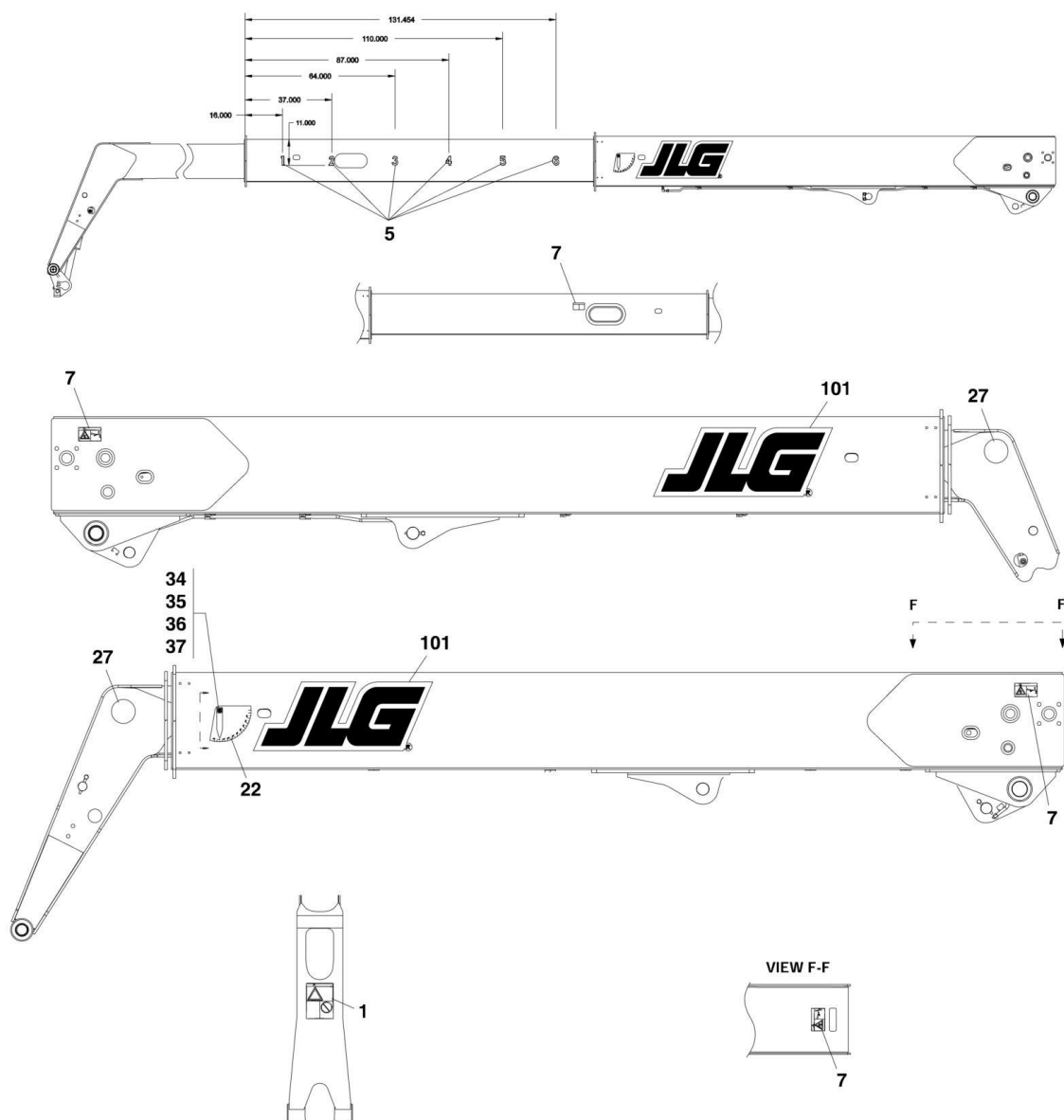
SECTION 11 - DECALS

FIGURE 11-7. BOOM DECALS (SN 0160006234 through 0160040674, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1705864	2	JLG DECAL, 12IN	
2	91513208	1	LIFTING PERSONNEL DECAL	
3	91143282	2	WARNING DECAL	
4	91513210	5	PINCH POINT DECAL	
5	91553072	1	BOOM NUMBERS DECAL KIT	
11	1706168	2	GOOSENECK DECAL, 9	
11	1706100	2	GOOSENECK DECAL, 10	
12	91003031	1	BOOM ANGLE DECAL (SN 0160006234 through 0160012551)	
12	4105262	1	BOOM ANGLE DECAL (SN 0160012571 to Present)	
13	90200445	1	PENDULUM (SN 0160006234 through 0160012551)	
13	7075611	1	PENDULUM (SN 0160012571 through 0160033133)	
13	1001098769	1	PENDULUM (SN 0160033134 to Present)	
14	8305647	1	NUT (SN 0160012571 through 0160033133)	
14	8305645	1	NUT (SN 0160033134 to Present)	
15	88561108	1	FLAT WASHER, 5/16 (SN 0160006234 through 0160012551)	
15	8307113	3	WASHER (SN 0160012571 through 0160033133)	
15	4711600	1	WASHER, 3/8 (SN 0160033134 to Present)	
16	0100011	AR	LOCTITE 242	
17	90200688	1	BEARING (SN 0160006234 through 0160012551)	
18	90026491	1	SHOULDER BOLT, 1/4-20 (SN 0160006234 through 0160012551)	
19	1001096404	1	ANGLE INDICATOR SPACER SLEEVE (SN 0160033134 to Present)	
K1	91515050	Ref	DECAL KIT, WHITE, (includes items 1, 3 thru 5, 11 & 12 and items 1 thru 10 & 13 thru 18 See CAB AND FRAME DECALS) (SN 0160006234 to Present)	D

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FIGURE 11-8. BOOM DECALS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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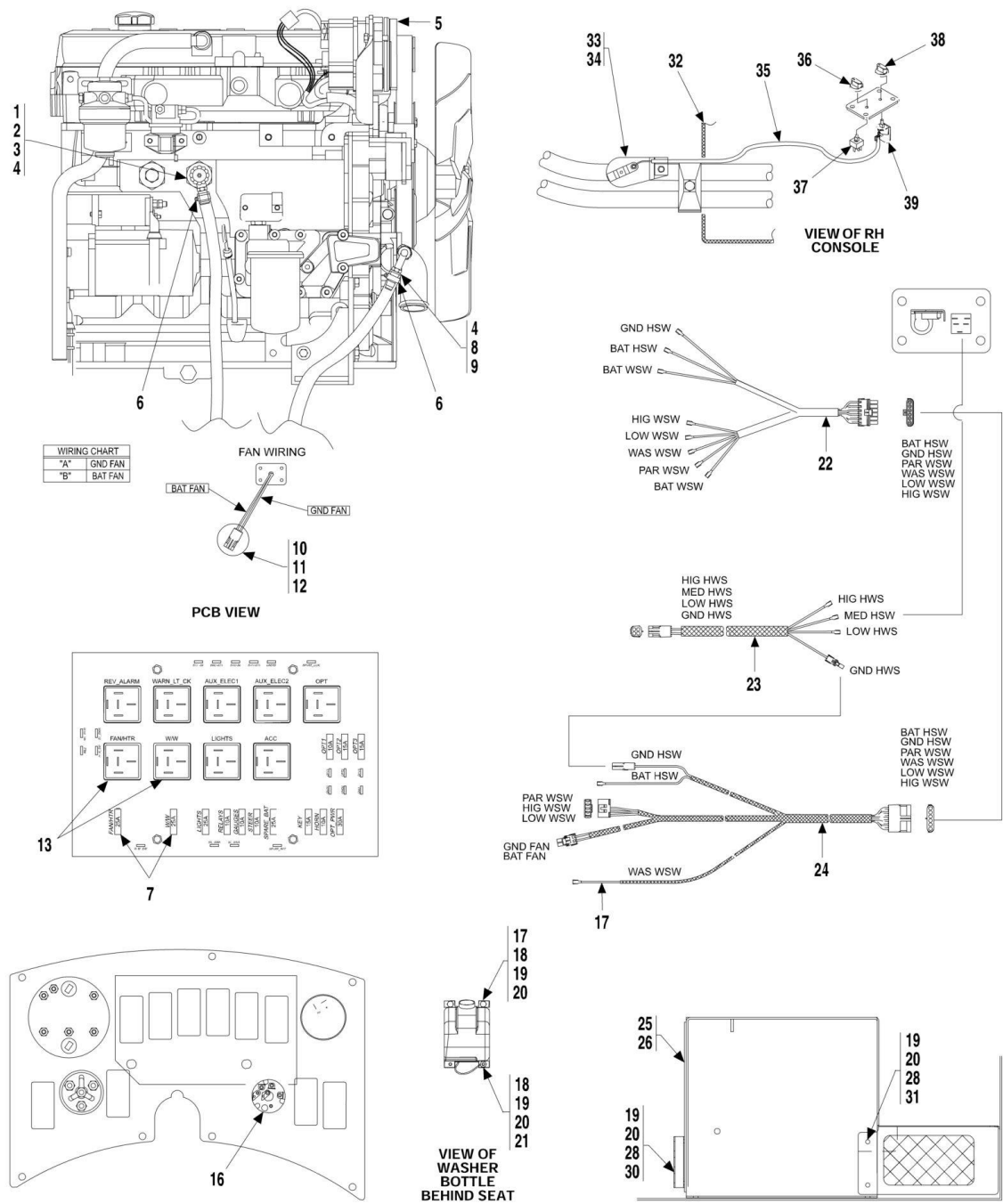
FIGURE 11-8. BOOM DECALS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115110	Ref	DECAL INSTALLATION (ANSI) (not available to order, see items 2 thru 33, 38 & 39 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G9-43A)	C, 5
	1001115111	Ref	DECAL INSTALLATION (ISO) (not available to order, see items 2 thru 33, 38 & 39 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G9-43A)	D, 5
	1001163581	Ref	DECAL INSTALLATION (FRENCH) (not available to order, see items 2 thru 26, 31, 32, 33, 40 thru 44 & See CAB AND FRAME DECALS and items 1, 7, 22, 24 & 34 thru 37 See BOOM DECALS) (G9-43A)	B
	1001115112	Ref	DECAL INSTALLATION (ANSI) (not available to order, see items 2 thru 33, 38, 39 & 328 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G10-43A)	C, 5
	1001115113	Ref	DECAL INSTALLATION (ISO) (not available to order, see items 2 thru 33, 38, 39 & 328 See CAB AND FRAME DECALS and items 1, 7, 22, 24, 27 & 34 thru 37 See BOOM DECALS) (G10-43A)	D, 5
	1001163582	Ref	DECAL INSTALLATION (FRENCH) (not available to order, see items 2 thru 26, 31, 32, 33, 40 thru 44 & See CAB AND FRAME DECALS and items 1, 7, 22, 24 & 34 thru 37 See BOOM DECALS) (G10-43A)	B
1	1706298	1	CARRY PERSONNEL DECAL, (ANSI)	
1	1706282	1	CARRY PERSONNEL DECAL, (ISO)	
1	1001163206	1	CARRY PERSONNEL DECAL, (FRENCH)	
7	1706302	5	PINCH POINT DECAL, (ANSI)	
7	1706292	5	PINCH POINT DECAL, (ISO)	
7	1001163223	5	PINCH POINT DECAL, (FRENCH)	
22	4105262	1	BOOM ANGLE INDICATOR DECAL	
24	91553072	1	BOOM NUMBERS DECAL	
27	1706170	2	GOOSENECK DECAL, 9 (G9-43A)	
27	1706100	2	GOOSENECK DECAL, 10 (G10-43A)	
34	1001098769	1	BOOM ANGLE INDICATOR PLATE	
35	1001096404	1	ANGLE INDICATOR SPACER SLEEVE	
36	4711600	1	WASHER, 3/8	
37	8305645	1	HEX LOCKNUT, 3/8-16	
101	1705864	2	JLG DECAL, 12IN	

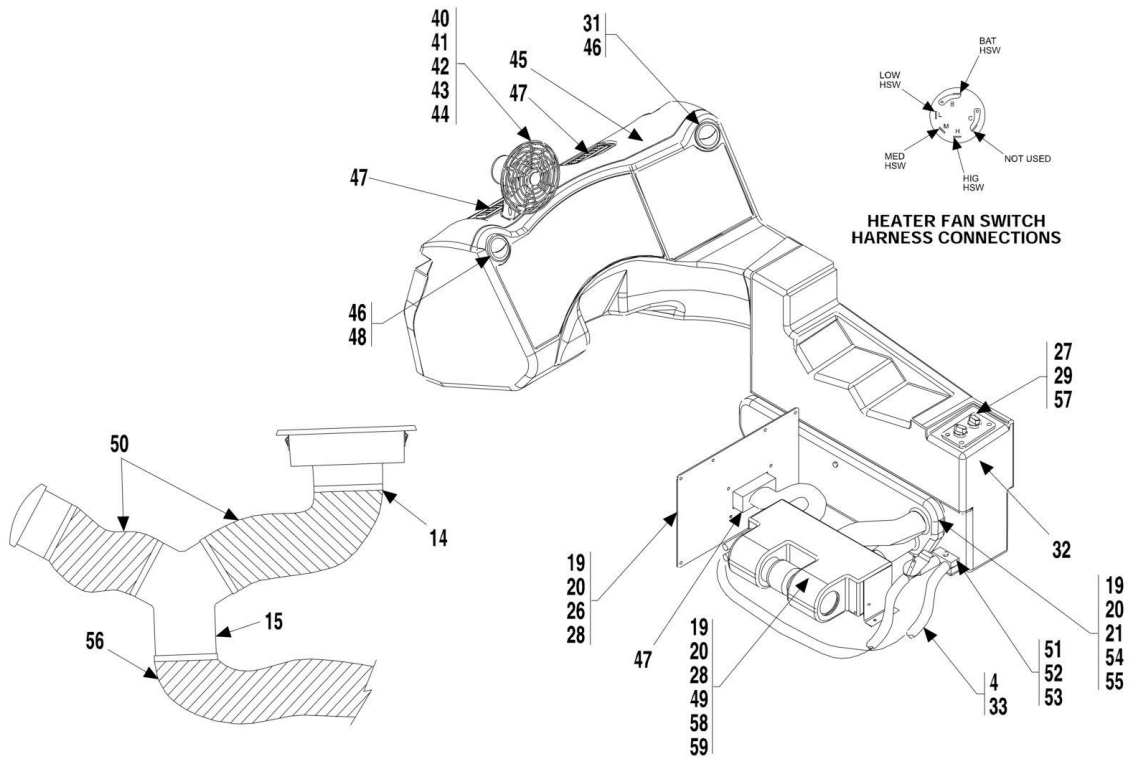
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FIGURE 12-1. ENCLOSED CAB HEATER COMPONENTS (SN 0193001 through 0193007, SN 016000008 through 0160015259)



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FIGURE 12-1. ENCLOSED CAB HEATER COMPONENTS (SN 0193001 through 0193007, SN 0160000008 through 0160015259)

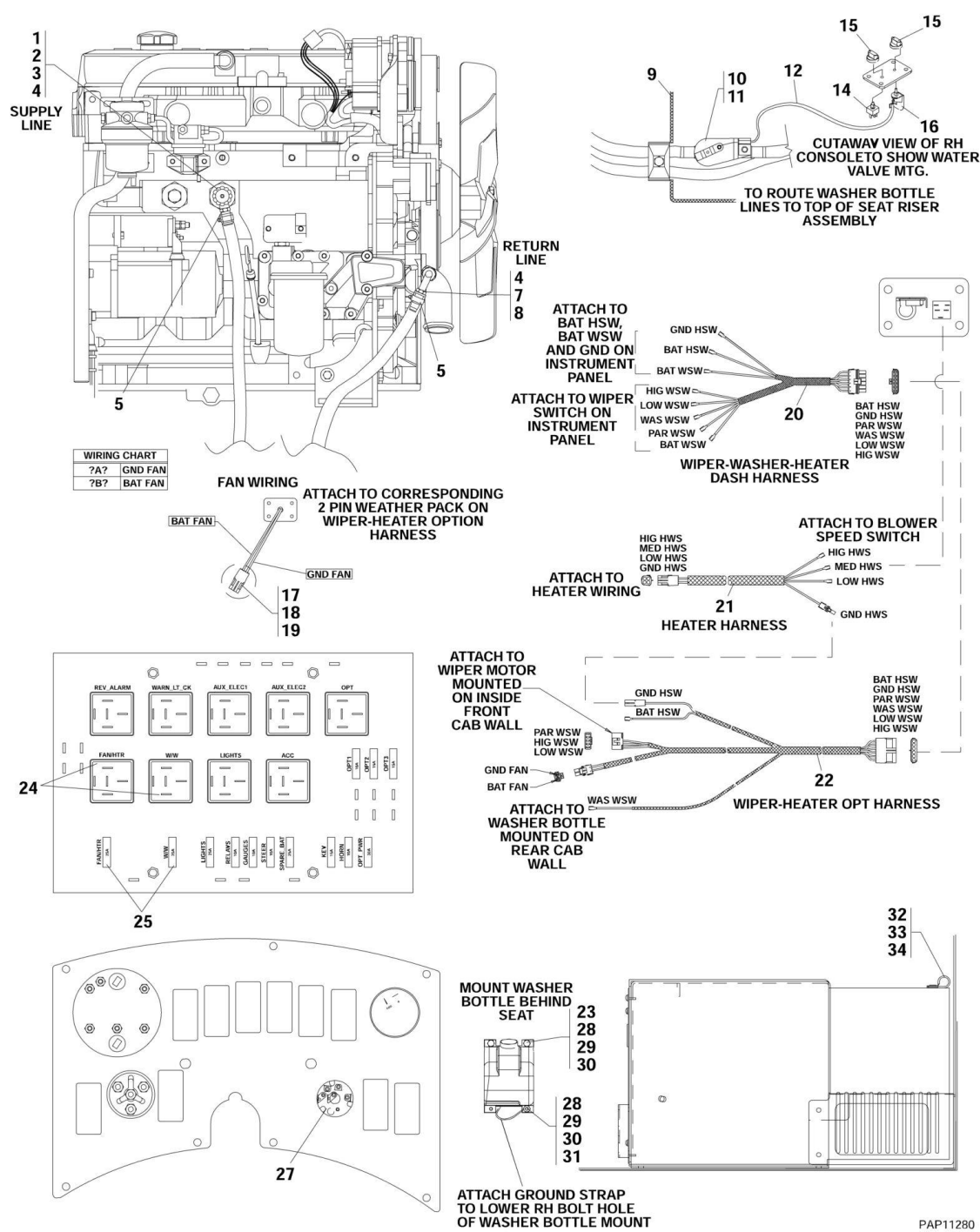
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91405056	1	ENCLOSED CAB HEATER COMPONENTS, (includes all items)	
1		Ref	FITTING, (See ENGINE HEATER COMPONENTS for Breakdown)	
2		Ref	TRUCK VALVE, (See ENGINE HEATER COMPONENTS for Breakdown)	
3		Ref	COOLANT RESTRICTER ORIFICE, (See ENGINE HEATER COMPONENTS for Breakdown)	
4		Ref	HEATER HOSE, 5/8IN, (See ENGINE HEATER COMPONENTS for Breakdown)	
5		Ref	ENGINE ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
6		Ref	HEATER HOSE CLAMP, (See ENGINE HEATER COMPONENTS for Breakdown)	
7	8229262	2	FUSE, 25 AMP	
8		Ref	STRAIGHT FITTING, (See ENGINE HEATER COMPONENTS for Breakdown)	
9		Ref	BARBED FITTING, 90, (See ENGINE HEATER COMPONENTS for Breakdown)	
10	80963058	1	WEATHER PACK CONNECTOR, (shroud)	
11	80963069	2	WEATHER PACK CONNECTOR, (pins)	
12	80963065	2	WEATHER PACK CONNECTOR, (seals)	
13	77363265	2	RELAY	
14	85071128	18	HOSE CLAMP	
15	91403539	2	CONNECTOR, 3 WAY	
16	80963101	1	WIPER SWITCH	
17	83683085	1	WIPER BOTTLE	
18	88201005	3	HEX HD CAPSCREW, 1/4-20X1, GR5	
19	88561002	18	FLAT WASHER, 1/4	
20	88551009	17	LOCKWASHER, 1/4	
21	88501004	2	HEX NUT, 1/4-20	
22	91403351	1	WIPE/WASH HARNESS	
23	91403352	1	HEATER HARNESS	
24	91403350	1	WIPE/HEATER HARNESS	
25	91406114	1	HEATER COVER WELDMENT	
26	91406113	1	ACCESS, BEZEL COVER	
27	91413051	4	SOCKET FLAT HD CAPSCREW, #10-24X1-1/4	
28	88261015	13	SOCKET BUTTON HD CAPSCREW, 1/4-20X5/8	
29	80363034	4	TINNERMAN NUT	
30	91401421	1	VENT COVER	
31	91406119	1	HEATER COVER WELDMENT	
32	91403288	1	RH CONSOLE WITH HEATER	
33	86683193	4	HOSE CLAMP	
34	83683182	1	WATER VALVE	
35	91413038	1	HEATER CONTROL CABLE	
36	80363029	1	KNOB, 1/4 SHAFT	
37	80964001	1	BLOWER SWITCH	
38	80363069	1	KNOB, 3/16 SHAFT	
39	80363028	1	ROTARY CONTROL	
40	91403608	1	DEFROSTER FAN	
41	91401443	1	FAN BASE PLATE	
42	91033425	1	RUBBER GROMMET	

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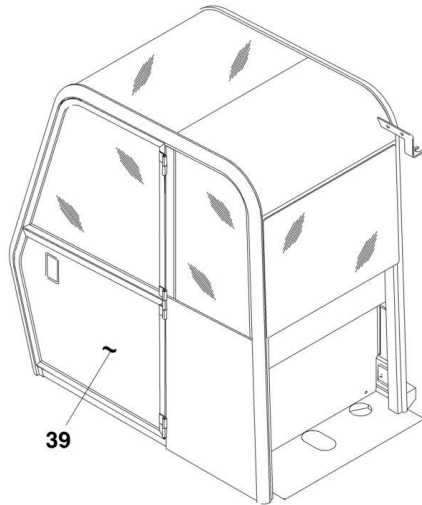
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	88211030	4	SOCKET HD CAPSCREW, #10-24X3/4, GR8	
44	77143017	4	WHIZ-LOCK NUT, #10-24	
45	91403299	1	DASH, ENCLOSED CAB	
46	80363106	2	VENT, CIRCULAR	
47	91403538	3	VENT, RECTANGULAR	
48	91403596	2	VENT REDUCER	
49	91403280	NLA	HEATER UNIT, (no longer available, order 1001114282 or see items 58 & 59 for service)	
50	71492150	1	VENT HOSE, 2	
51	77133279	1	CLAMP SET	
52	77133137	1	COVER PLATE	
53	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
54	91403329	1	PLENUM, HEAT/AC	
55	88201011	1	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	
56	71492152	1	VENT HOSE, 2-1/2	
57	91403445	1	HEATER CONTROL PANEL	
58	70022804	1	HEATER FAN MOTOR REPLACEMENT KIT	
59	91404439	2	HEATER FAN WHEEL	

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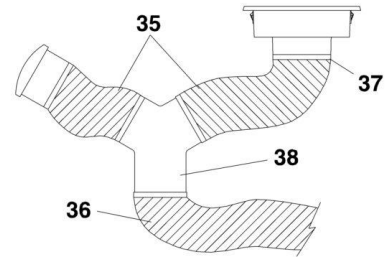
FIGURE 12-2. ENCLOSED CAB HEATER COMPONENTS (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)



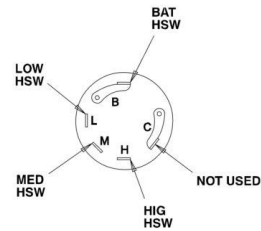
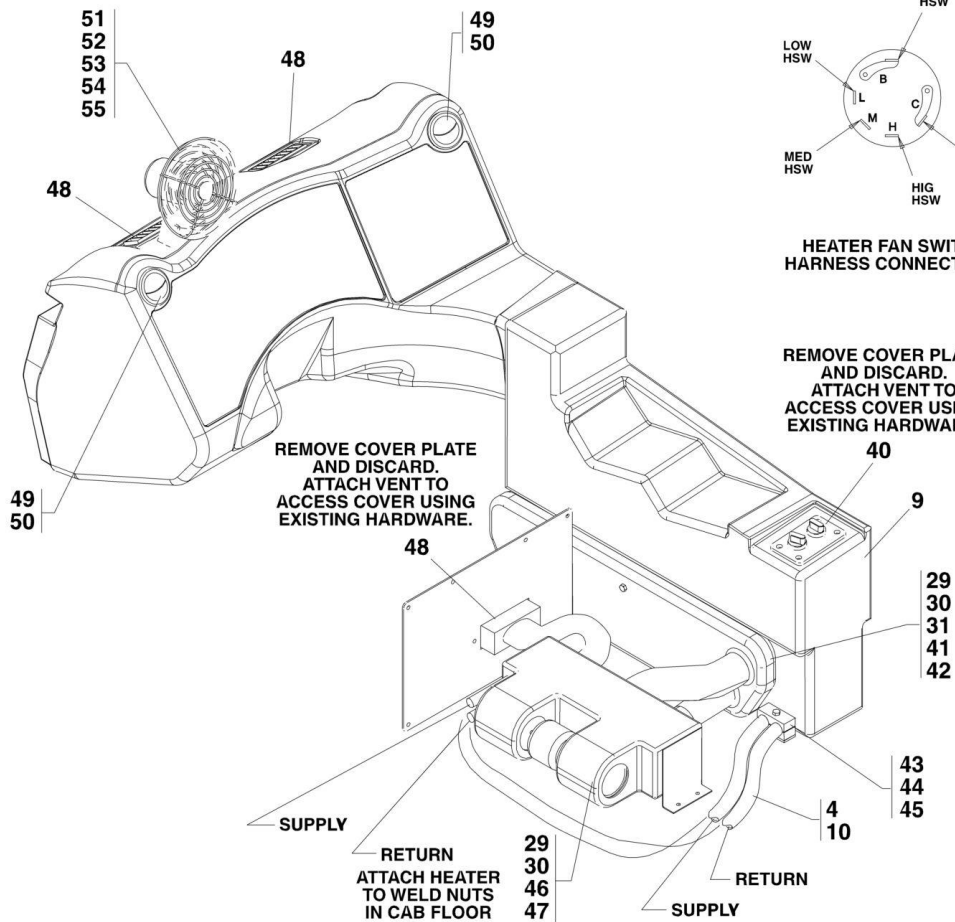
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**USE THIS CLAMP TO ATTACH
VENT HOSE TO VENTS, PLENUM
AND HEATER**



ATTACH HOSES FROM 3-WAY CONNECTORS TO FRONT OPENING ON THE PLENUM.



HEATER FAN SWITCH HARNESS CONNECTIONS

**REMOVE COVER PLATE
AND DISCARD.
ATTACH VENT TO
ACCESS COVER USING
EXISTING HARDWARE.**

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**FIGURE 12-2. ENCLOSED CAB HEATER COMPONENTS (SN 0160015460 through 0160040674,
Excluding 0160040468 and 0160040672)**

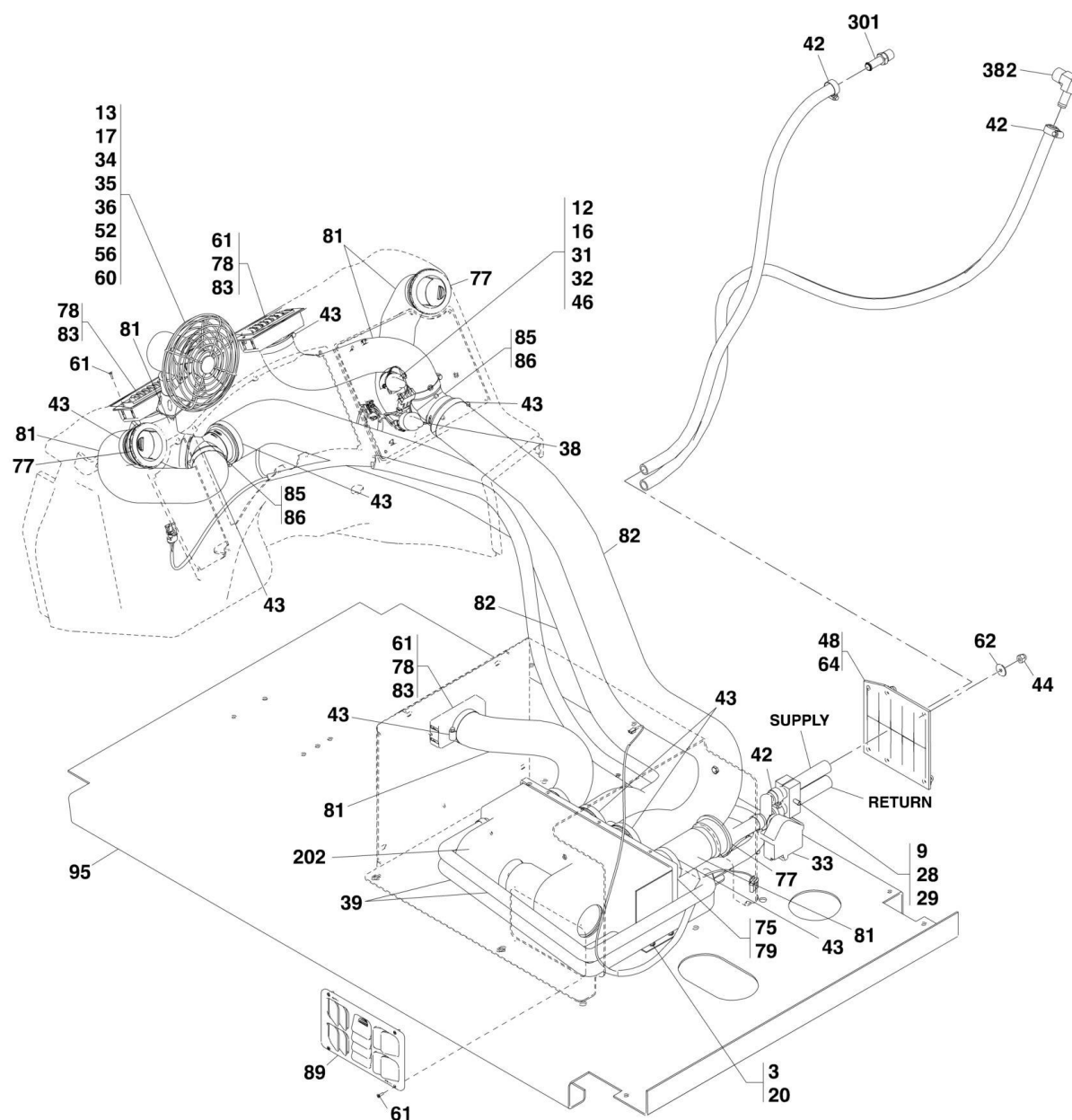
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475108	Ref	CAB ENCLOSURE KIT INSTALLATION, (not available to order, see items 1 thru 55 for service)	B
1		Ref	FITTING, (See ENGINE HEATER COMPONENTS for Breakdown)	
2		Ref	TRUCK VALVE, (See ENGINE HEATER COMPONENTS for Breakdown)	
3		Ref	COOLANT RESTRICTOR ORIFICE, (See ENGINE HEATER COMPONENTS for Breakdown)	
4		Ref	HEATER HOSE, 5/8IN, (See ENGINE HEATER COMPONENTS for Breakdown)	
5		Ref	HEATER HOSE CLAMP, (See ENGINE HEATER COMPONENTS for Breakdown)	
6	86683122	1	TIE WRAP	
7		Ref	STRAIGHT FITTING, (See ENGINE HEATER COMPONENTS for Breakdown)	
8		Ref	BARBED FITTING, 90, (See ENGINE HEATER COMPONENTS for Breakdown)	
9		Ref	RH CONSOLE, (See CAB SECTION for Breakdown)	
10	86683193	4	HOSE CLAMP	
11	83683182	1	WATER VALVE	
12	91413038	1	HEATER CABLE	
14	80964001	1	BLOWER SWITCH	
15	80363069	2	KNOB, 3/16 SHAFT	
16	80363028	1	ROTARY CONTROL	
17	80963058	1	WEATHER PACK SHROUD	
18	80963069	2	WEATHER PACK PINS	
19	80963065	2	WEATHER PACK SEALS	
20	91403351	1	WIPER/WASHER HARNESS	
21	91403352	1	HEATER HARNESS	
22	91403350	1	WIPER/HEATER HARNESS	
23	83683085	1	WASHER BOTTLE	
24	77363265	1	RELAY	
25	8229262	2	AUTO FUSE, 25 AMP	
27	80963101	1	WIPER SWITCH	
28	88201005	3	HEX HD CAPSCREW, 1/4-20X1	
29	88561002	9	FLAT WASHER, 1/4	
30	88551009	8	LOCKWASHER, 1/4	
31	88501004	2	HEX NUT, 1/4-20	
32	91413036	2	SELF TAPPING SCREW, #6X1/2	
33	24861170	2	CLAMP	
34	88561105	2	FLAT WASHER, #10	
35	71492150	10 ft	VENT HOSE, 2IN DIAMETER	
36	71492152	10.5 ft	VENT HOSE, 2 1/2IN DIAMETER	
37	84231107	18	HOSE CLAMP	
38	91403539	2	3 WAY CONNECTOR	
39		Ref	CAB ENCLOSURE, (See CAB SECTION for Breakdown)	
40	91403445	1	HEATER CONTROL PANEL	
41	91403329	1	HEAT/AC PLENUM	
42	88201011	1	HEX HD CAPSCREW, 1/4-20X2 1/2	
43	77133279	1	CLAMP SET	
44	77133137	1	COVER PLATE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	88201023	1	HEX HD CAPSCREW, 5/16-18X1 3/4	
46	91403280	1	HEATER UNIT	
47	88261015	4	BUTTON HD CAPSCREW, 1/4-20X5/8	
48	91413053	3	RECTANGULAR VENT	
49	91403596	2	VENT REDUCER	
50	80363106	2	CIRCULAR VENT	
51	91403608	1	DEFROSTER FAN	
52	91401443	1	FAN BASE PLATE	
53	91033425	1	RUBBER GROMMET	
54	88211030	4	SOCKET HD CAPSCREW, #10-24X3/4	
55	77143017	4	WHIZ-LOCK NUT, #10-24	

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FIGURE 12-3. ENCLOSED CAB HEATER COMPONENTS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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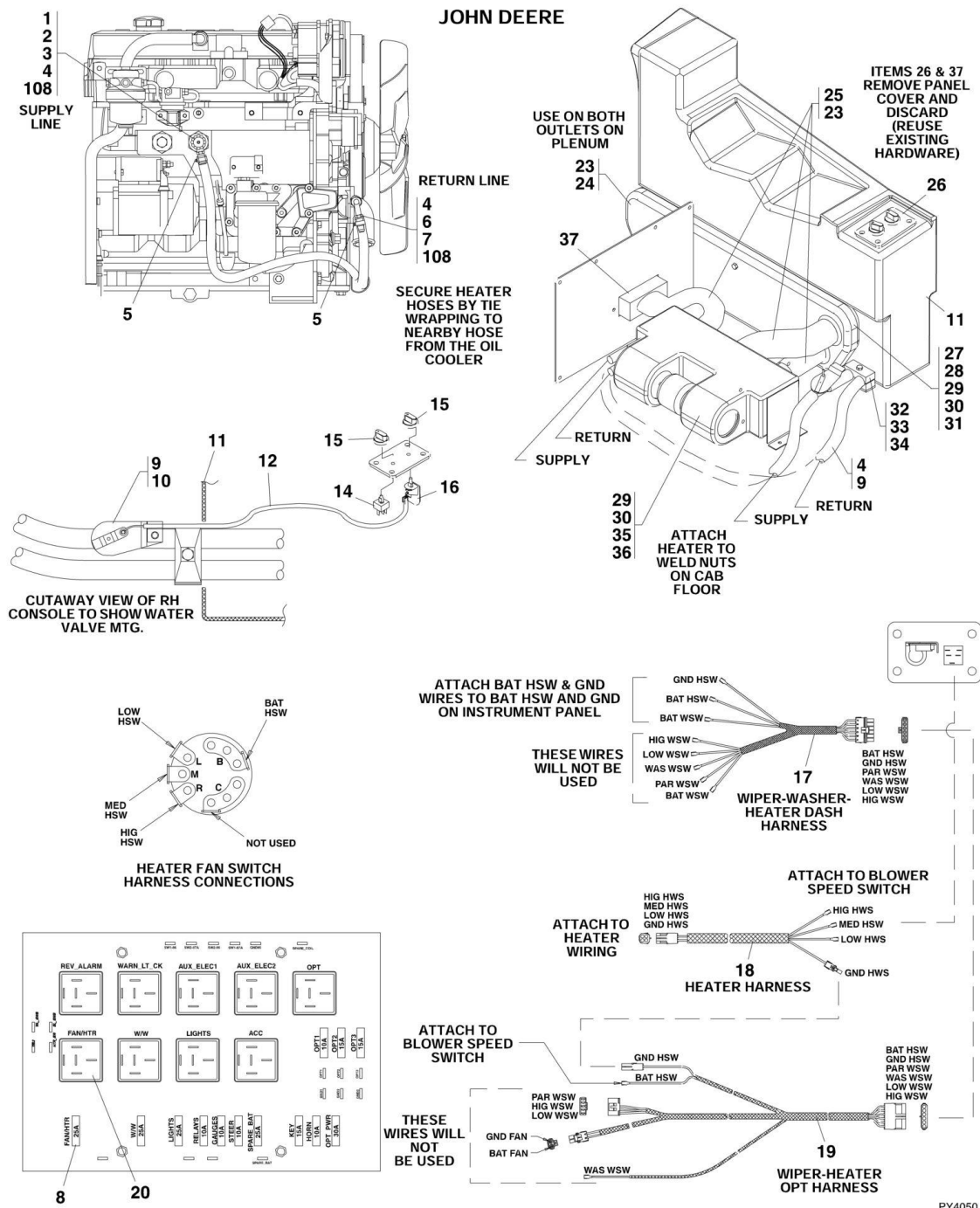
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FIGURE 12-3. ENCLOSED CAB HEATER COMPONENTS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
9	0641518	1	HEX HD CAPSCREW, 5/16-18X2-1/4, GR5	
12		Ref	FLAT HD CAPSCREW, #6-32X0.62, (See CAB SECTION for Breakdown)	
13	0741006	4	SOCKET HD CAPSCREW, #10-24X0.75	
16		Ref	HEX NUT, #6-32, GR2, (See CAB SECTION for Breakdown)	
17	3311005	4	HEX NUT, #10-24, GR2	
20	4711400	4	WASHER, 1/4	
28	77133137	1	COVER PLATE	
29	7713279	1	CLAMP SET	
31		Ref	KNOB, (See CAB SECTION for Breakdown)	
32		Ref	POTENTIOMETER ASSY, (8k ohms), (See CAB SECTION for Breakdown)	
33	80383231	1	HEATER CONTROL VALVE	
34	80963058	1	WEATHER PACK SHROUD	
35	80963065	2	WEATHER PACK SEALS	
36	80963069	2	WEATHER PACK PINS	
38		Ref	BLOWER SWITCH, (See CAB SECTION for Breakdown)	
39		Ref	HEATER HOSE, (See ENGINE HEATER COMPONENTS for Breakdown)	
42	86683193	8	HOSE CLAMP	
43	86883328	18	HOSE CLAMP	
44	88521004	4	LOCKNUT, 1/4-20	
46		Ref	TUBING CLIP, (See CAB SECTION for Breakdown)	
48	90206195	18 in	TRIM-LOCK	
52	91033425	1	RUBBER GROMMET	
56	91401443	1	FAN BASE PLATE	
60	91403608	1	DEFROSTER FAN	
61	91413036	10	SELF-TAPPING SCREW, #6X1/2	
62	91413050	4	WASHER, 1/4	
64	91473163	1	HOSE GUARD	
75	1001090344	AR	NEOPRENE TAPE, 1/16X1/2	
77	1001100278	3	ROUND VENT	
78	1001100279	3	DEFROST VENT	
79	1001100282	1	BLOWER UNIT COVER	
81	1001100446	78 in	HOSE	
82	1001100447	148 in	3 IN HOSE	
83	1001101216	3	DEFROST BASE VENT	
85	1001101668	2	3-WAY CONDUIT	
86	1001101669	2	3IN CONDUIT	
89	1001106849	1	RETURN AIR VENT	
95		Ref	ENCLOSED CAB, (See CAB SECTION for Breakdown)	
202	1001114282	1	3 SPEED HEATER ASSY	
301	8430048	1	FITTING, HOSE BARB	
382	1001135035	1	ADAPTER, 90	

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FIGURE 12-4. OPEN CAB HEATER COMPONENTS (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)



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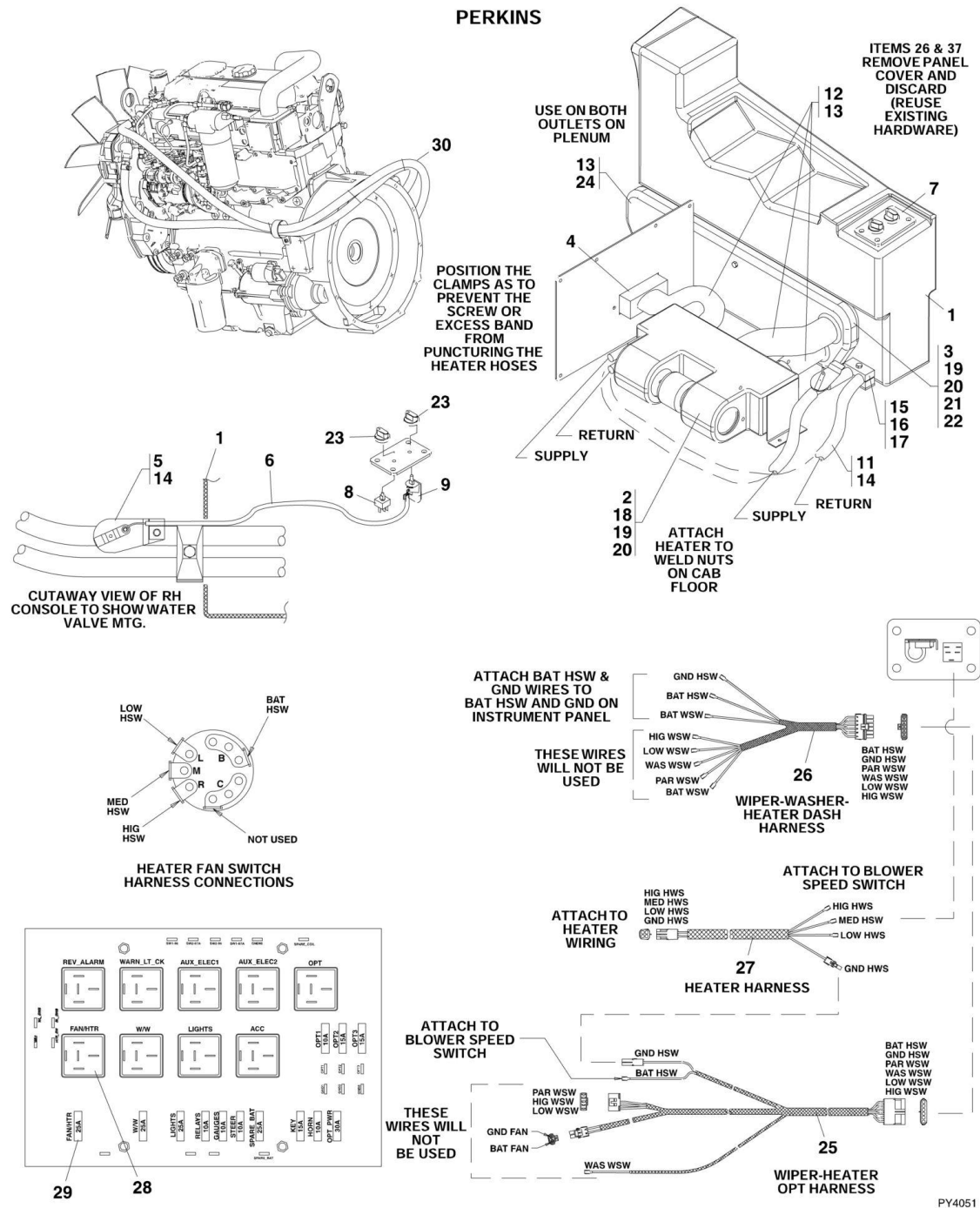
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FIGURE 12-4. OPEN CAB HEATER COMPONENTS (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475109	1	OPEN CAB HEATER OPTION, (JOHN DEERE), (includes all items)	D
1		Ref	FITTING, (See ENGINE HEATER COMPONENTS for Breakdown)	
2		Ref	TRUCK VALVE, (See ENGINE HEATER COMPONENTS for Breakdown)	
3		Ref	COOLANT RESTRICTOR ORIFICE, (See ENGINE HEATER COMPONENTS for Breakdown)	
4		Ref	HEATER HOSE, 5/8IN, (See ENGINE HEATER COMPONENTS for Breakdown)	
5		Ref	HEATER HOSE CLAMP, (See ENGINE HEATER COMPONENTS for Breakdown)	
6		Ref	STRAIGHT FITTING, (See ENGINE HEATER COMPONENTS for Breakdown)	
7		Ref	BARBED FITTING, 90, (See ENGINE HEATER COMPONENTS for Breakdown)	
8	8229262	1	AUTO FUSE, 25 AMP	
9	86683193	4	HOSE CLAMP	
10	83683182	1	WATER VALVE	
11		Ref	RH CONSOLE WITH HEATER, (See CAB SECTION for Breakdown)	
12	91413038	1	HEATER CONTROL CABLE	
14	80964001	1	BLOWER SWITCH	
15	80363069	2	KNOB, 3/16 SHAFT	
16	80363028	1	ROTARY CONTROL	
17	91403351	1	WIPER/WASHER HARNESS	
18	91403352	1	HEATER HARNESS	
19	91403350	1	WIPER/HEATER HARNESS	
20	77363265	1	RELAY	
23	84231107	8	HOSE CLAMP	
24	91416020	2	VENT WELDMENT	
25	71492152	5.5 ft	VENT HOSE, 2-1/2IN DIA	
26	91403445	1	HEATER CONTROL PANEL	
27	91403329	1	HEAT/AC PLENUM	
28	88201011	1	HEX HD CAPSCREW, 1/4-20X2 1/2	
29	88561002	6	FLAT WASHER, 1/4	
30	88551009	5	LOCKWASHER, 1/4	
31	88501004	1	HEX NUT, 1/4-20	
32	77133279	1	CLAMP SET	
33	77133137	1	COVER PLATE	
34	88201023	1	HEX HD CAPSCREW, 5/16-18X1 3/4	
35	91403280	1	HEATER UNIT	
36	88261015	4	BUTTON HD CAPSCREW, 1/4-20X5/8	
37	91413053	1	RECTANGULAR VENT	
108		Ref	LOCTITE 567, (See ENGINE HEATER COMPONENTS for Breakdown)	

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FIGURE 12-5. OPEN CAB HEATER COMPONENTS (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040675 and 0160040672)



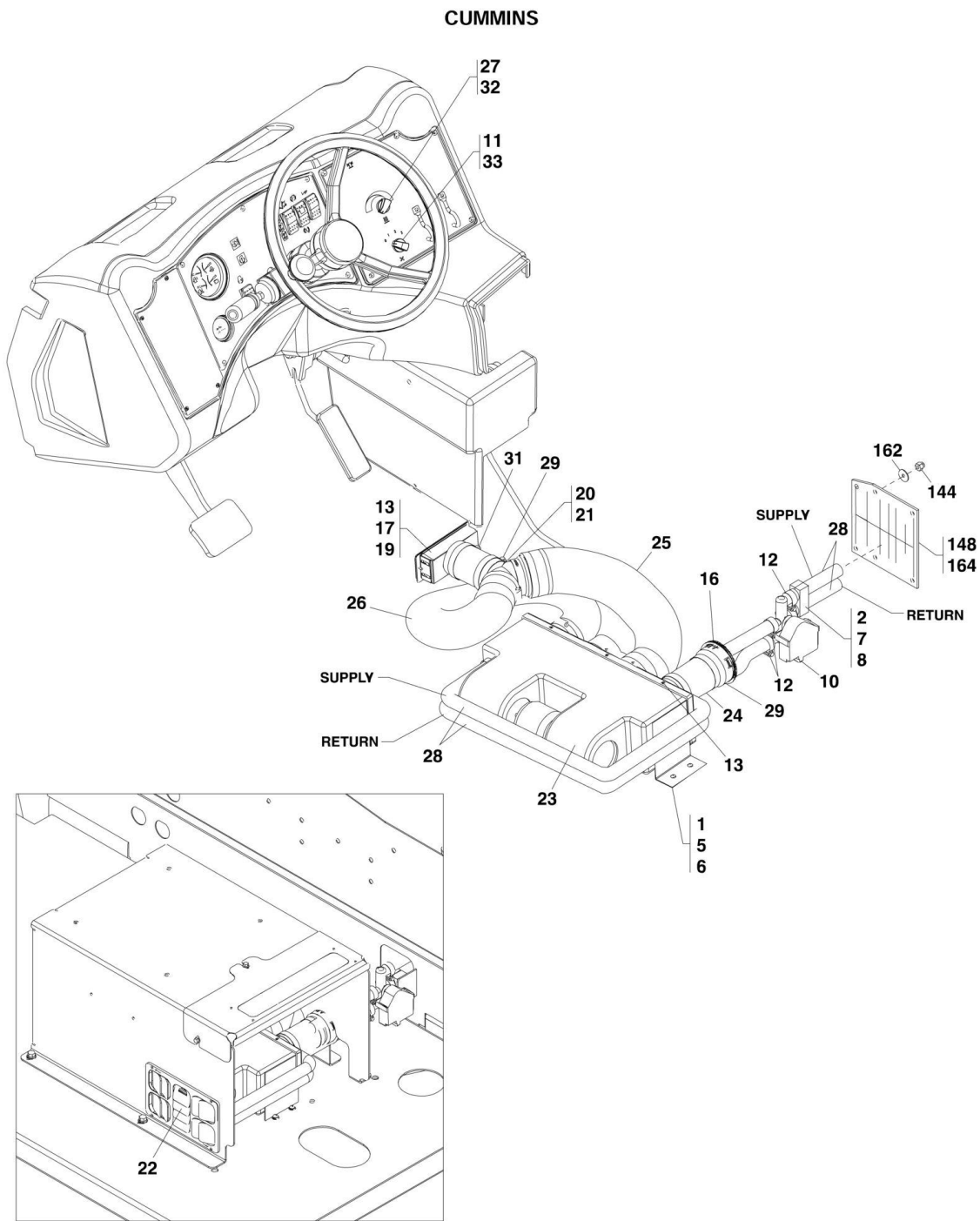
SECTION 12 - OPTIONS

FIGURE 12-5. OPEN CAB HEATER COMPONENTS (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040675 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275753	1	OPEN CAB HEATER OPTION, (PERKINS), (includes items 1 thru 30)	D
1		Ref	RH CONSOLE WITH HEATER, (See CAB SECTION for Breakdown)	
2	91403280	1	HEATER UNIT	
3	91403329	1	HEATER/AC PLENUM	
4	91413053	1	RECTANGULAR VENT	
5	83683182	1	WATER VALVE	
6	91413038	1	HEATER CONTROL CABLE	
7	91403445	1	HEATER CONTROL PANEL	
8	80964001	1	BLOWER SWITCH	
9	80363028	1	ROTARY CONTROL	
11	82033995	300 in	HEATER HOSE, 5/8IN	
12	71492152	5.5 ft	VENT HOSE, 2-1/2IN	
13	84231107	8	HOSE CLAMP	
14	86683193	4	HOSE CLAMP	
15	77133279	1	CLAMP SET	
16	77133137	1	COVER PLATE	
17	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
18	88261015	4	BUTTON HD CAPSCREW, 1/4-20X5/8	
19	88561002	6	FLAT WASHER, 1/4	
20	88551009	5	LOCKWASHER, 1/4	
21	88201011	1	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	
22	88501004	1	HEX NUT, 1/4-20	
23	80363069	2	KNOB, 3/16 SHAFT	
24	91416020	2	VENT WELDMENT	
25	91403350	1	WIPER/HEATER HARNESS	
26	91403351	1	WIPER/WASHER HARNESS	
27	91403352	1	HEATER HARNESS	
28	77363265	1	RELAY	
29	80964009	1	FUSE, 25AMP	
30		Ref	ENGINE HEATER COMPONENTS INSTALLATION, (See ENGINE HEATER COMPONENTS for Breakdown)	

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FIGURE 12-6. OPEN CAB HEATER COMPONENTS (SN 0160040675 to Present, Including 0160040468 and 0160040672)



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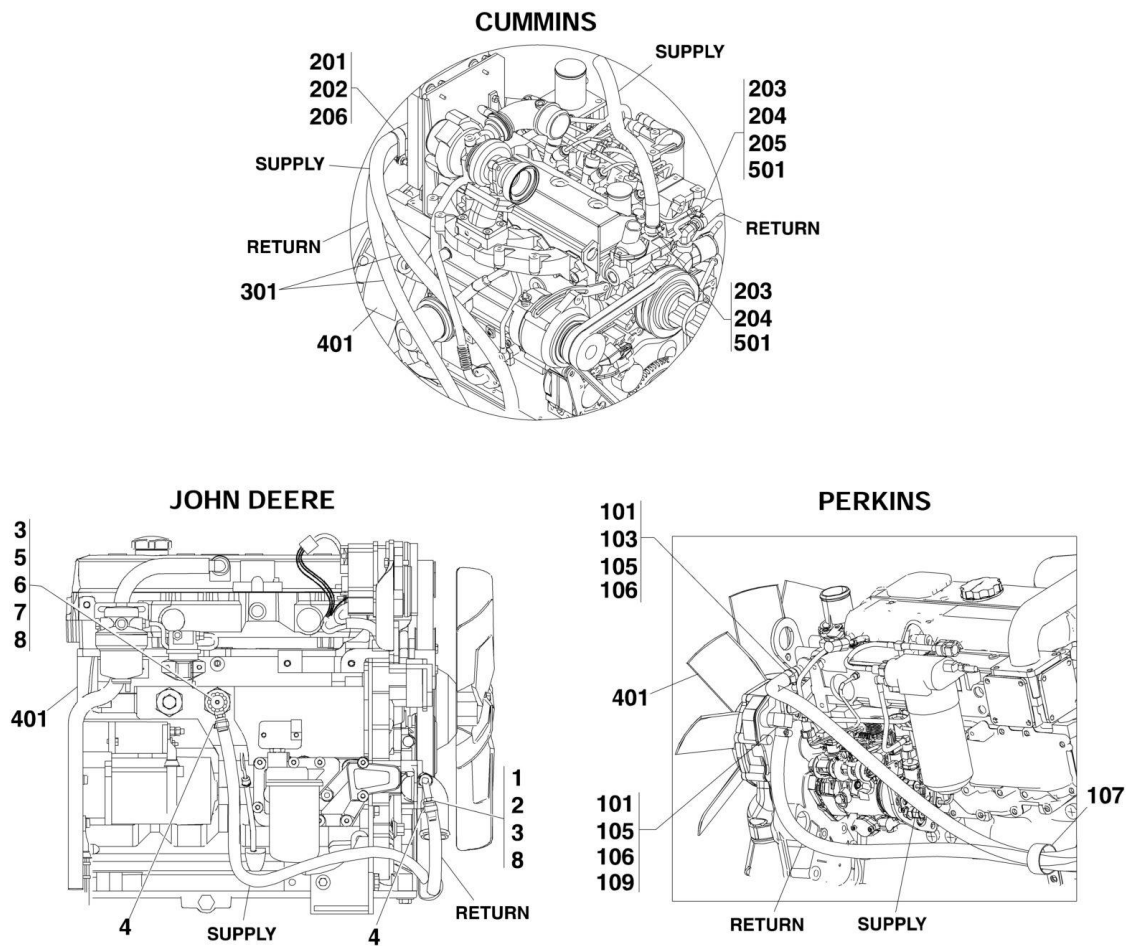
SECTION 12 - OPTIONS

FIGURE 12-6. OPEN CAB HEATER COMPONENTS (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130586	Ref	HEATER OPTION INSTALLATION, (CUMMINS ENGINE), (not available to order, see items 1 thru 33 for service)	D
1	0630407	4	BUTTON HD CAPSCREW, 1/4-20X5/8	
2	0641518	1	HEX HD CAPSCREW, 5/16-18X2-1/4, GR5	
5	4711400	2	WASHER, 1/4	
6	4761400	4	LOCKWASHER, 1/4	
7	77133137	1	TWIN CLAMP COVER PLATE	
8	77133279	1	CLAMP SET	
10	80383231	1	HEATER CONTROL VALVE	
11		Ref	BLOWER SWITCH, (See CAB SECTION for Breakdown)	
12	8663193	6	HOSE CLAMP	
13	91413036	8	SELF TAPPING SCREW, #6X1/2	
14		Ref	CAB OPTIONS HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
16	1001100278	1	ROUND VENT	
17	1001100279	1	DEFROST VENT	
19	1001101216	1	DEFROST BASE VENT	
20	1001101668	1	3-WAY CONDUIT	
21	1001101669	1	3IN CONDUIT	
22	1001106849	1	RETURN AIR VENT	
23	1001114282	1	3 SPEED HEATER ASSY	
24	1001100446	0.9 ft	HOSE	
25	1001100447	1.4 ft	HOSE	
26	71492152	2.5 ft	HOSE	
27		Ref	POTENTIOMETER ASSY, (See CAB SECTION for Breakdown)	
28		Ref	HEATER HOSE, (See ENGINE HEATER COMPONENTS for Breakdown)	
29	86883328	7	HOSE CLAMP	
31	84231107	1	HOSE CLAMP	
32		Ref	KNOB, (See CAB SECTION for Breakdown)	
33		Ref	KNOB, (See CAB SECTION for Breakdown)	
101		Ref	OPEN CAB, (not shown), (See CAB SECTION for Breakdown)	
144	88521004	4	LOCKNUT, 1/4-20	
148	90206195	54 in	TRIM-LOCK	
162	91413050	4	WASHER, 1/4	
164	91473163	1	HOSE GUARD	

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FIGURE 12-7. ENGINE HEATER COMPONENTS



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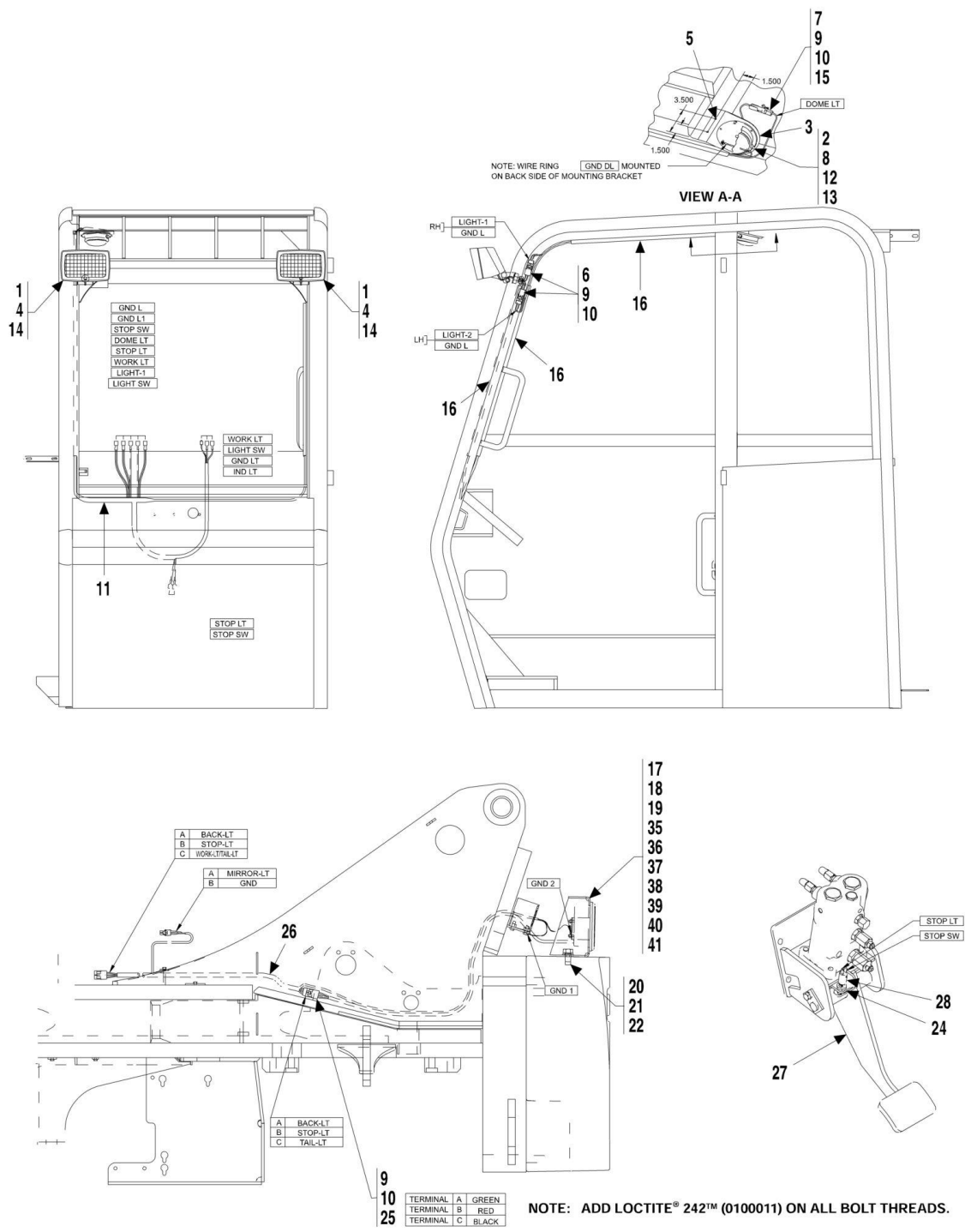
SECTION 12 - OPTIONS

FIGURE 12-7. ENGINE HEATER COMPONENTS

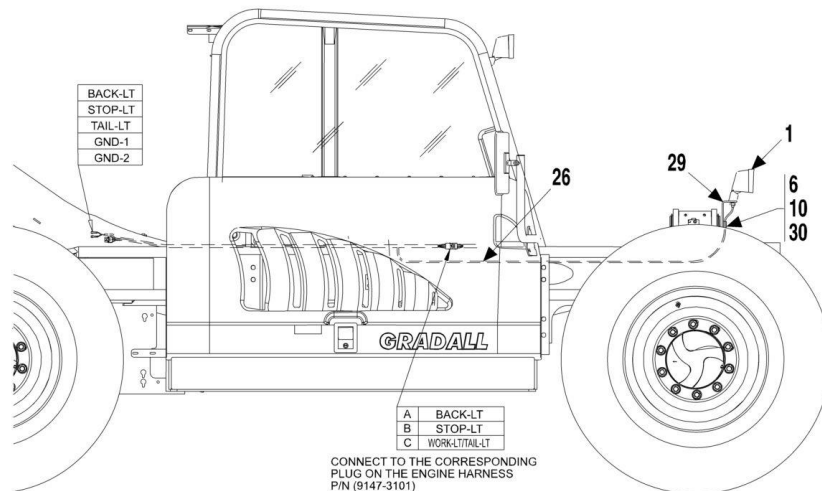
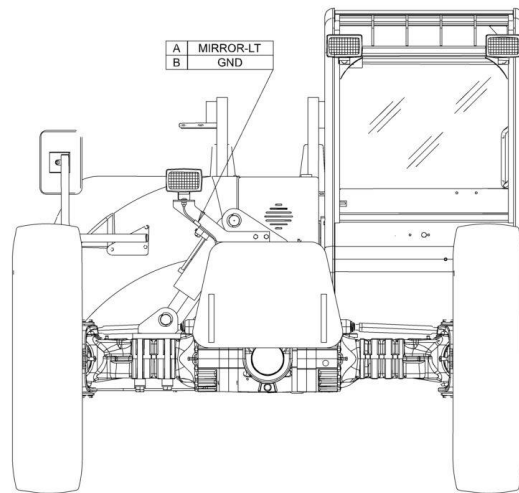
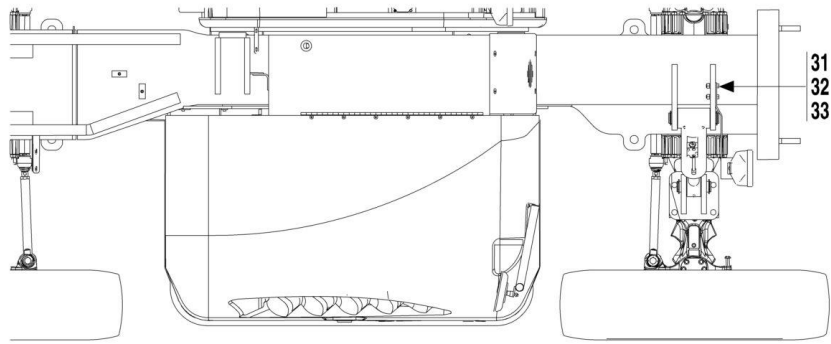
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275707	Ref	ENGINE HEATER COMPONENTS INSTALLATION , (JOHN DEERE, if equipped), (not available to order, see items 1 thru 8 for service) (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	A
1	80683073	1	STRAIGHT FITTING	
2	91403443	1	BARBED FITTING, 90	
3	82033995	20 ft	HEATER HOSE, 5/8IN, (enclosed cab) (SN 0193001 through 0193007, SN 0160000008 through 0160015259)	
3	82033995	17 ft	HEATER HOSE, 5/8IN , (enclosed cab), (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)	
3	82033995	26 ft	HEATER HOSE, 5/8IN , (open cab) (SN 0160015460 through 0160040674, Excluding 0160040468 and 0160040672)	
4	86671187	2	HEATER HOSE CLAMP	
5	80373046	1	FITTING	
6	91083155	1	TRUCK VALVE	
7	77383540	1	COOLANT RESTRICTER ORIFICE	
8	0100020	AR	LOCTITE 567	
	0275750	Ref	ENGINE HEATER COMPONENTS INSTALLATION , (PERKINS, if equipped),(not available to order, see items 101 thru 109 for service) (SN 0160020943 through 0160040674, Excluding 0160040468 and 0160040672)	F
101	8405007	2	GEAR CLAMP	
103	77383540	1	COOLANT RESTRICTER ORIFICE	
105	82033995	25 ft	HEATER HOSE, 5/8IN	
106	0100020	AR	LOCTITE 567	
107	90028660	1	LOOP CLAMP	
109	84712749	1	BRASS ELBOW	
	1001127693	Ref	HEATER-ENGINE COMPONENTS INSTALLATION, (CUMMINS), (not available to order, see items 201 thru 206 for service) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	B
201	0791607	1	WHIZ-LOCK SCREW, 3/8-16X7/8	
202	1321716	1	1IN CLAMP	
203	2220806	2	STRAIGHT FITTING	
204	8405007	2	CLAMP	
205	8540205	1	ADAPTER, 90	
206	77143015	1	WHIZ-LOCK NUT, 3/8-16	
301	82033995	17 ft	HEATER HOSE, (CUMMINS)	
401		Ref	ENGINE ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
501	2220806	2	STRAIGHT FITTING	

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FIGURE 12-8. WORKLIGHT PACKAGE (Prior to SN 0160031635)

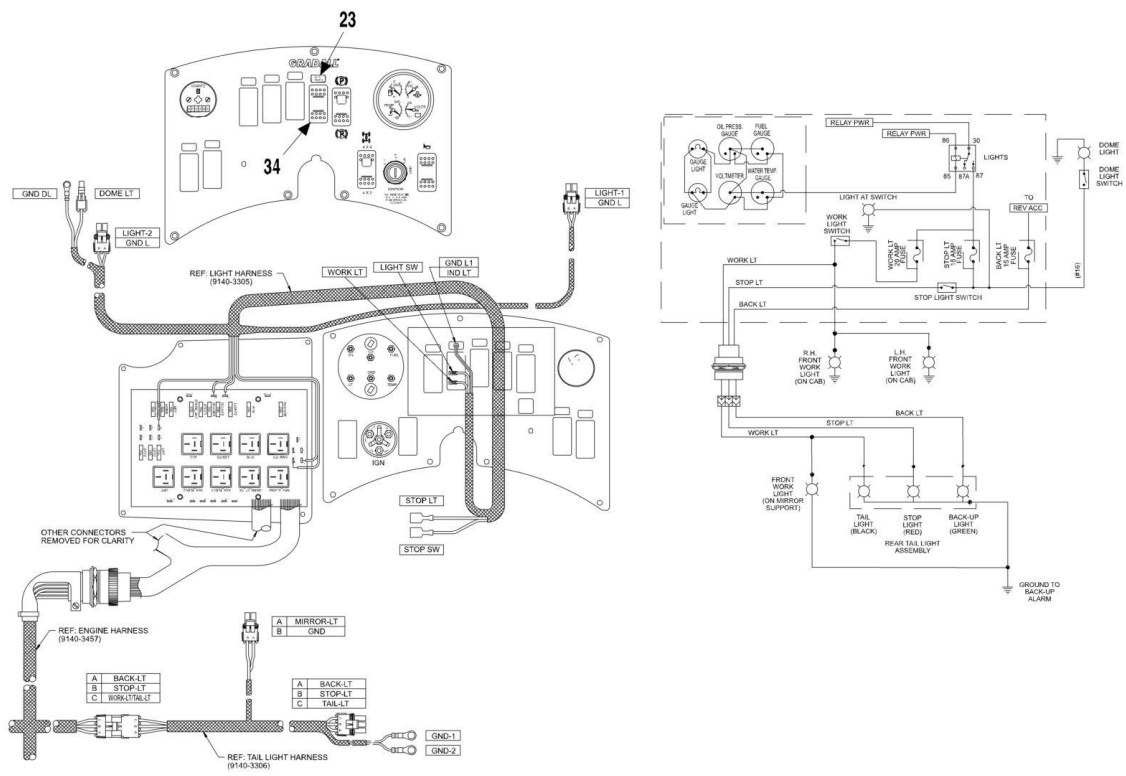


SECTION 12 - OPTIONS



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

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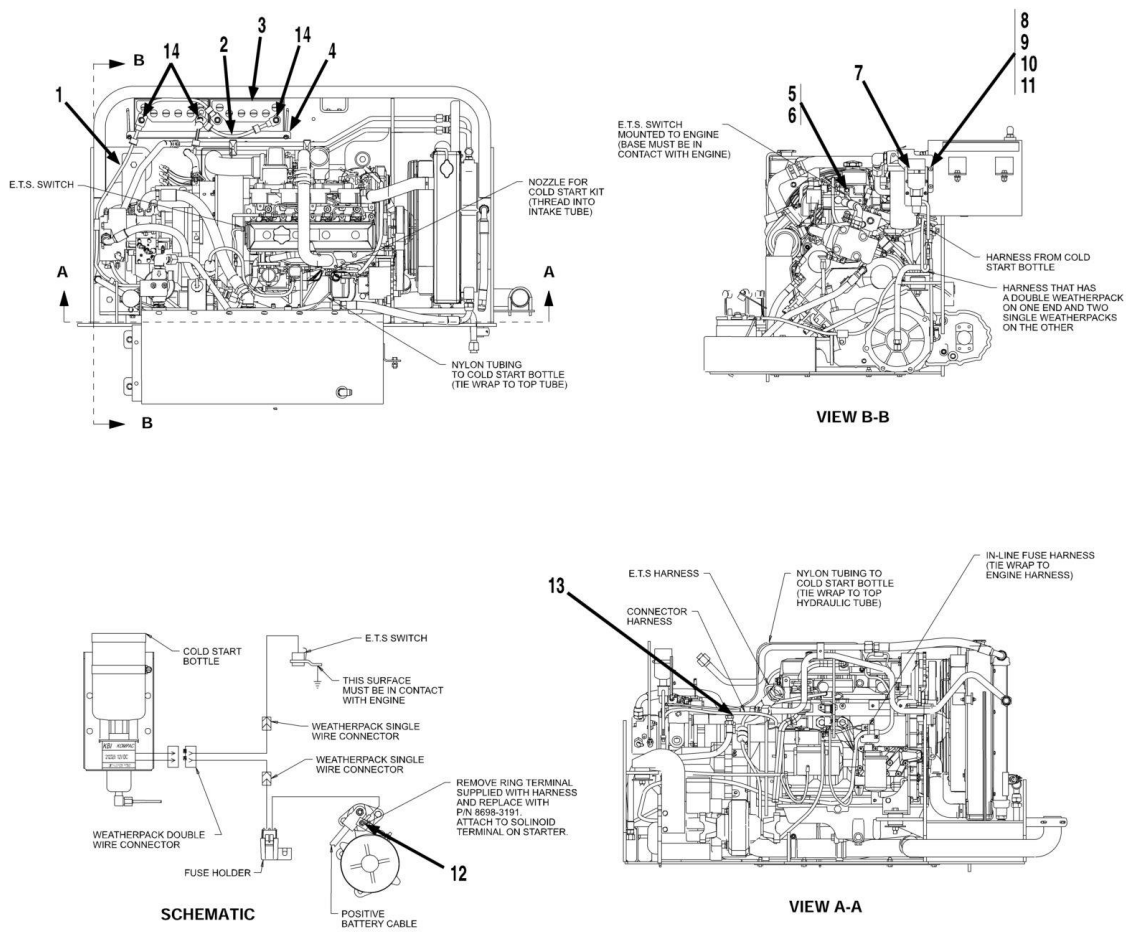
SECTION 12 - OPTIONS

FIGURE 12-8. WORKLIGHT PACKAGE (Prior to SN 0160031635)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515032	1	WORK LIGHT PACKAGE, (includes all items)	F
1	80963050	3	UTILITY FLOOD LIGHT	
1	80964070	3	BULB	
2	24861167	1	INTERIOR LIGHT	
3	91361003	1	MOUNTING BRACKET	
4	91413052	2	WORK LIGHT MOUNTING BOLT	
5	88321022	2	SELF TAPPING SCREW, #8-32X3/8	
6	80963058	3	WEATHER PACK, SHROUD	
7	80963056	1	WEATHER PACK, SHROUD	
8	88551006	3	LOCKWASHER, #8	
9	80963069	8	MALE PIN TERMINAL	
10	80963066	10	CABLE SEAL	
11	91403305	1	LIGHT HARNESS	
12	89981036	3	PAN HD SCREW, #8-32X3/8	
13	88501610	3	HEX NUT, #8	
14	91403503	2	SPACER	
15	90029955	1	RUBBER GROMMET	
16	80961142	3	ECONOMY WIRING DUCT	
17	91121145	1	TAIL LIGHT HOUSING	
18	91121146	1	TAIL LIGHT BRACKET	
19	91365045	1	TAIL LIGHT ASSY, (includes items 35 thru 41)	
20	88201108	1	HEX HD CAPSCREW, 3/4-10X1-1/4	
21	88561115	1	WASHER, 3/4	
22	88551016	1	LOCKWASHER, 3/4	
23	91403613	1	WORK LIGHT DECAL	
24	91511127	1	STOPLIGHT SW MOUNTING TAB	
25	80963060	1	WEATHER PACK, SHROUD	
26	91403306	1	TAIL LIGHT HARNESS	
27	91516030	1	BRAKE PEDAL WITH TAB	
28	91143117	1	STOPLIGHT SWITCH	
29	91511126	1	FLOOD LIGHT BRACKET	
30	80963068	2	FEMALE PIN TERMINAL	
31	88201038	2	HEX HD CAPSCREW, 3/8-16X1-3/4	
32	88501006	2	HEX NUT, 3/8-16	
33	88551011	2	LOCKWASHER, 3/8	
34	91403304	1	TOGGLE SWITCH	
35	91123065	1	TAIL LIGHT	
36	86661147	38 in	16 GA BLACK WIRE	
37	86661149	38 in	16 GA GREEN WIRE	
38	86661152	38 in	16 GA RED WIRE	
39	86683480	3	BUTT CONNECTOR	
40	82033996	45 in	WIRE LOOM	
41	86683122	2	TIE WRAP	

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FIGURE 12-9. COLD START INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



NOTE: ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
USE LOCTITE® 545™ (0100075) ON ALL HYDRAULIC FITTING THREADS.

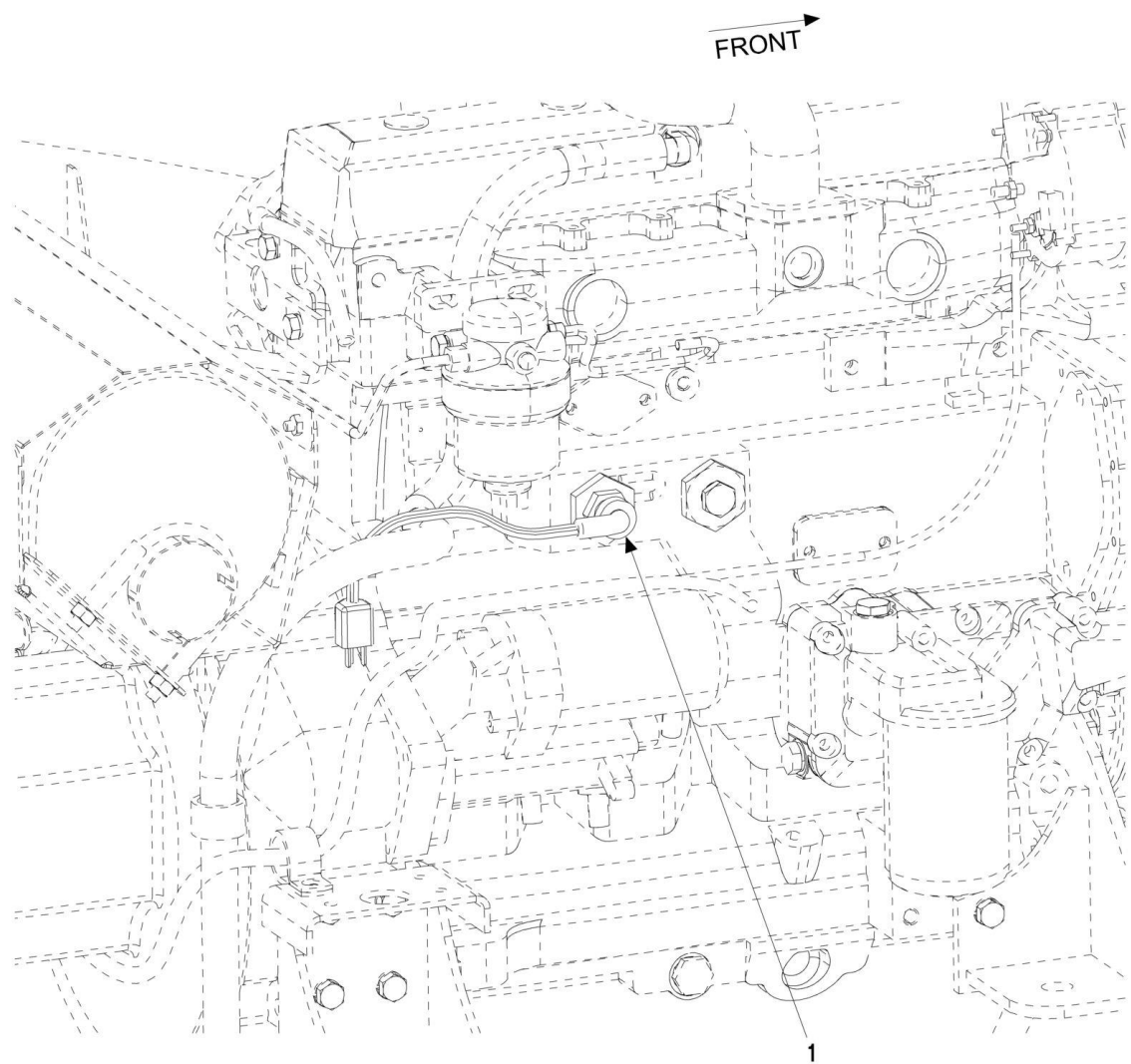
SECTION 12 - OPTIONS

**FIGURE 12-9. COLD START INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515042	1	COLD START INSTALLATION, (includes items 5 thru 14)	D
1	91473166	1	NEGATIVE BATTERY CABLE (SN 0193001 through 0160018284)	
2	91403390	1	POSITIVE BATTERY CABLE (SN 0193001 through 0160018284)	
3	91083483	1	BATTERY, (12 volt, 1000 amps), TOP STUD, 3/8-16 UNC THREAD,BCI GROUP 31	
4	91401299	1	TIE DOWN (SN 0193001 through 0160018284)	
5	83191038	1	HEX HD CAPSCREW, M10-1.5X20	
6	83191013	1	LOCKWASHER, M10	
7	91403295	1	COLD START KIT	
7	70023156	1	VALVE, 12VDC	
8	88501004	4	HEX NUT, 1/4-20	
9	88551009	4	LOCKWASHER, 1/4	
10	88201003	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
11	88561002	4	FLAT WASHER, 1/4	
12	91473239	1	RING TERMINAL	
13	90027187	AR	TIE WRAP	
14	77383567	3	TERMINAL NUT	

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FIGURE 12-10. BLOCK HEATER INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



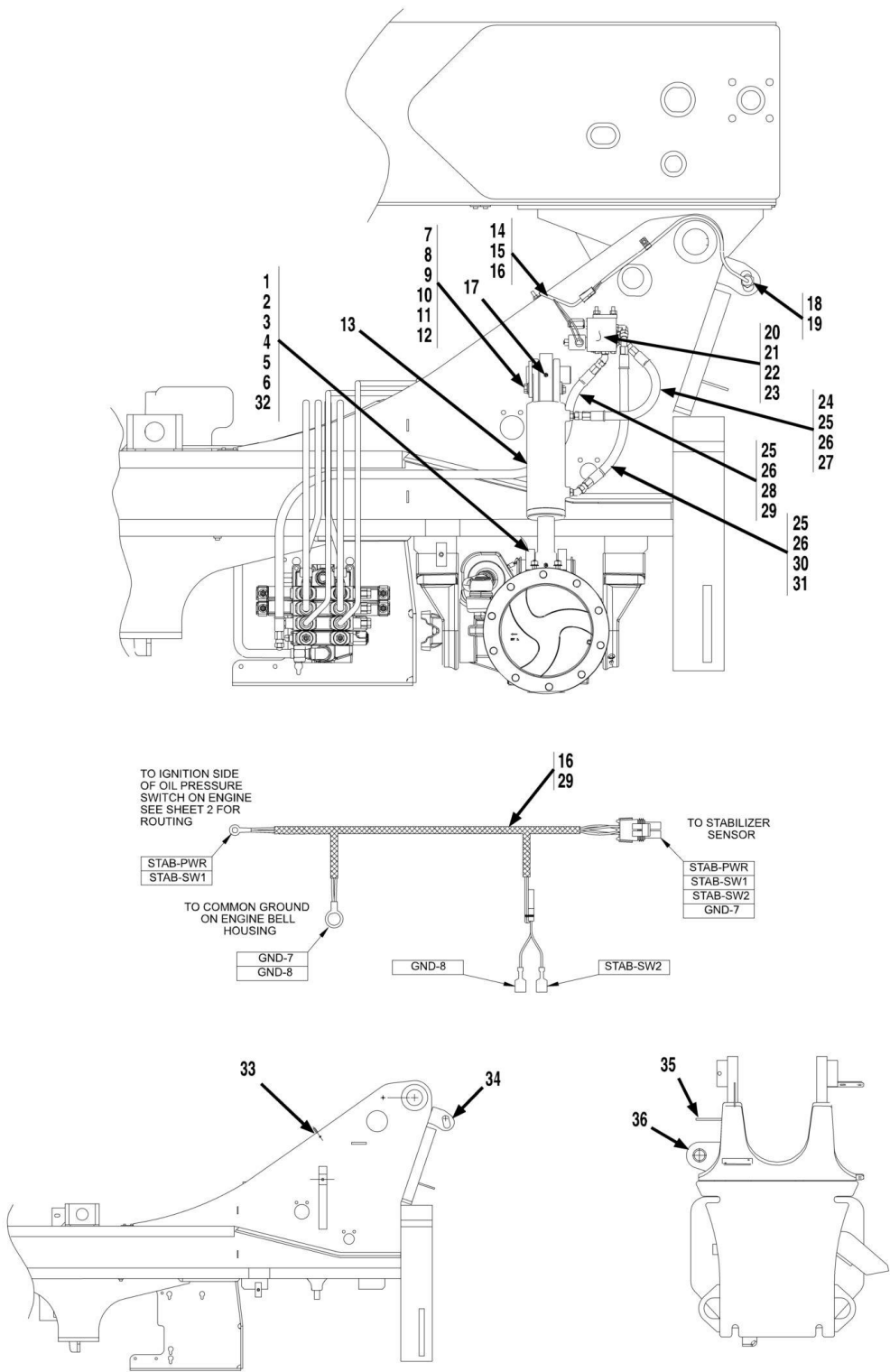
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**FIGURE 12-10. BLOCK HEATER INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80375012	Ref	BLOCK HEATER INSTALLATION, (not available to order, see item 1 for service)	
	80373088	1	BLOCK HEATER	

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FIGURE 12-11. STABILIZER OPTION



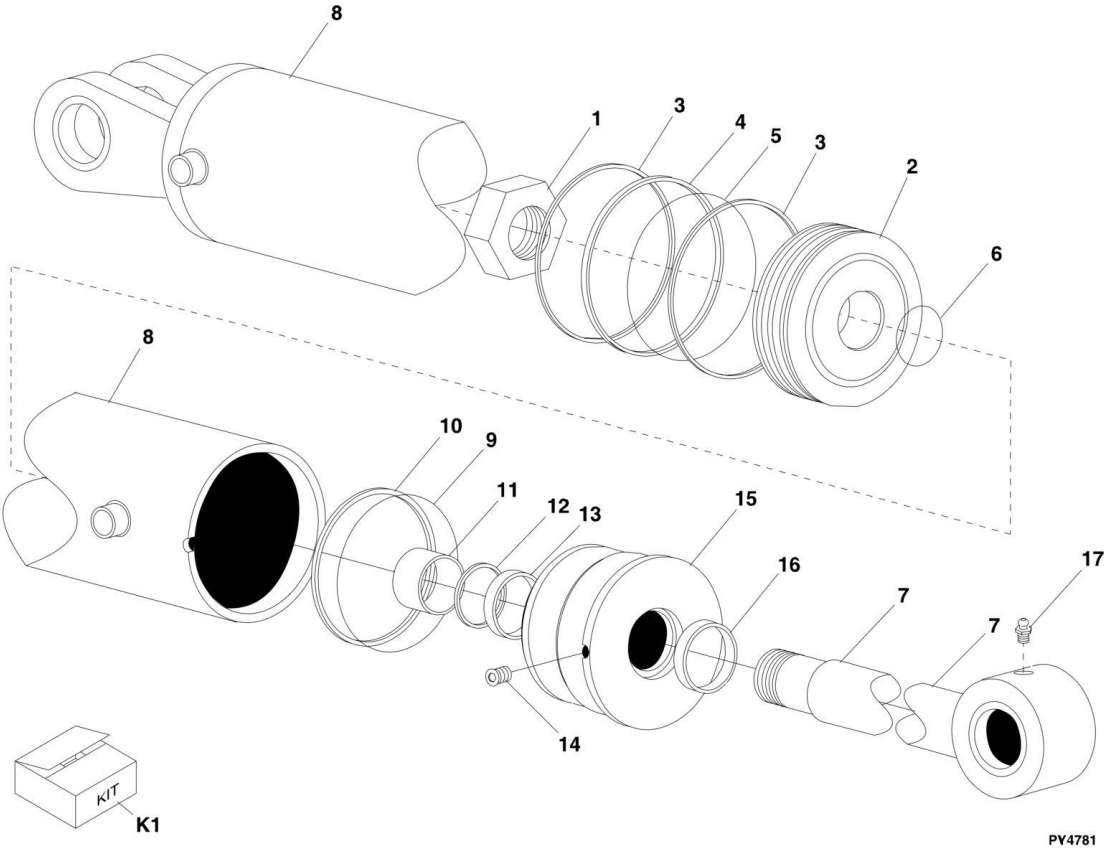
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FIGURE 12-11. STABILIZER OPTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515012	1	STABILIZER OPTION, (includes all items)	
1	91516018	1	SWAY PIVOT WELDMENT	
2	91511105	2	RETAINING PLATE	
3	77101143	4	HEX HD CAPSCREW, (torque to 545-595 lb-ft)	
4	90027475	7	WASHER, (three extra washers on bolt located in milled section of bracket)	
5	91403225	1	SWAY PIN	
6	90028935	2	SNAP RING	
7	91166062	1	PIN WELDMENT	
8	88201066	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5	
9	88551013	2	LOCKWASHER, 1/2	
10	88561111	3	FLAT WASHER, 1/2	
11	91161269	1	KEEPER	
12	88201065	1	HEX HD CAPSCREW, 1/2-13X1, GR5	
13		Ref	STABILIZER CYLINDER, (See STABILIZER OPTION – STABILIZER CYLINDER for Breakdown)	
14	86621230	3	SUPPORT CLAMP	
15	77143006	3	WHIZ-LOCK NUT, 5/16	
16	91403297	1	STABILIZER HARNESS	
17	88671001	1	LUBE FITTING	
18	91365037	1	STABILIZER SENSOR ASSY, (includes the following five items)	
18	91143155	1	PROXIMITY SENSOR SWITCH	
18	80963062	1	WEATHER PACK CONNECTOR, (shroud)	
18	80963069	4	WEATHER PACK CONNECTOR, (male pin terminal)	
18	80963065	4	WEATHER PACK CONNECTOR, (cable seals)	
18	91053419	1	TIE WRAP	
19	91403156	2	WASHER	
20	91113003	1	STABILIZER VALVE	
21	83201073	2	HEX HD CAPSCREW, 3/8-16X5-1/4	
22	88551011	2	LOCKWASHER, 1/2	
23	88501006	2	HEX NUT, 3/8-16	
24	84717556	1	HOSE ASSY	
25	2220500	3	ELBOW, 45, (includes item 26)	
26	88591205	5	O-RING	
27	2220373	1	CONNECTOR, (includes item 26)	
28	84719598	1	HOSE ASSY	
29	90027187	12	TIE WRAP	
30	84718631	1	HOSE ASSY	
31	2220596	1	ELBOW, 90, (includes item 26)	
32	91143051	2	BUSHING	
33	85051384	3	WELD STUD	
34	91401256	1	SENSOR MOUNTING BRACKET	
35	91361026	1	STABILIZER VALVE MOUNTING BRACKET	
36	91511106	1	STABILIZER CYLINDER BRACKET	

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FIGURE 12-12. STABILIZER OPTION - STABILIZER CYLINDER



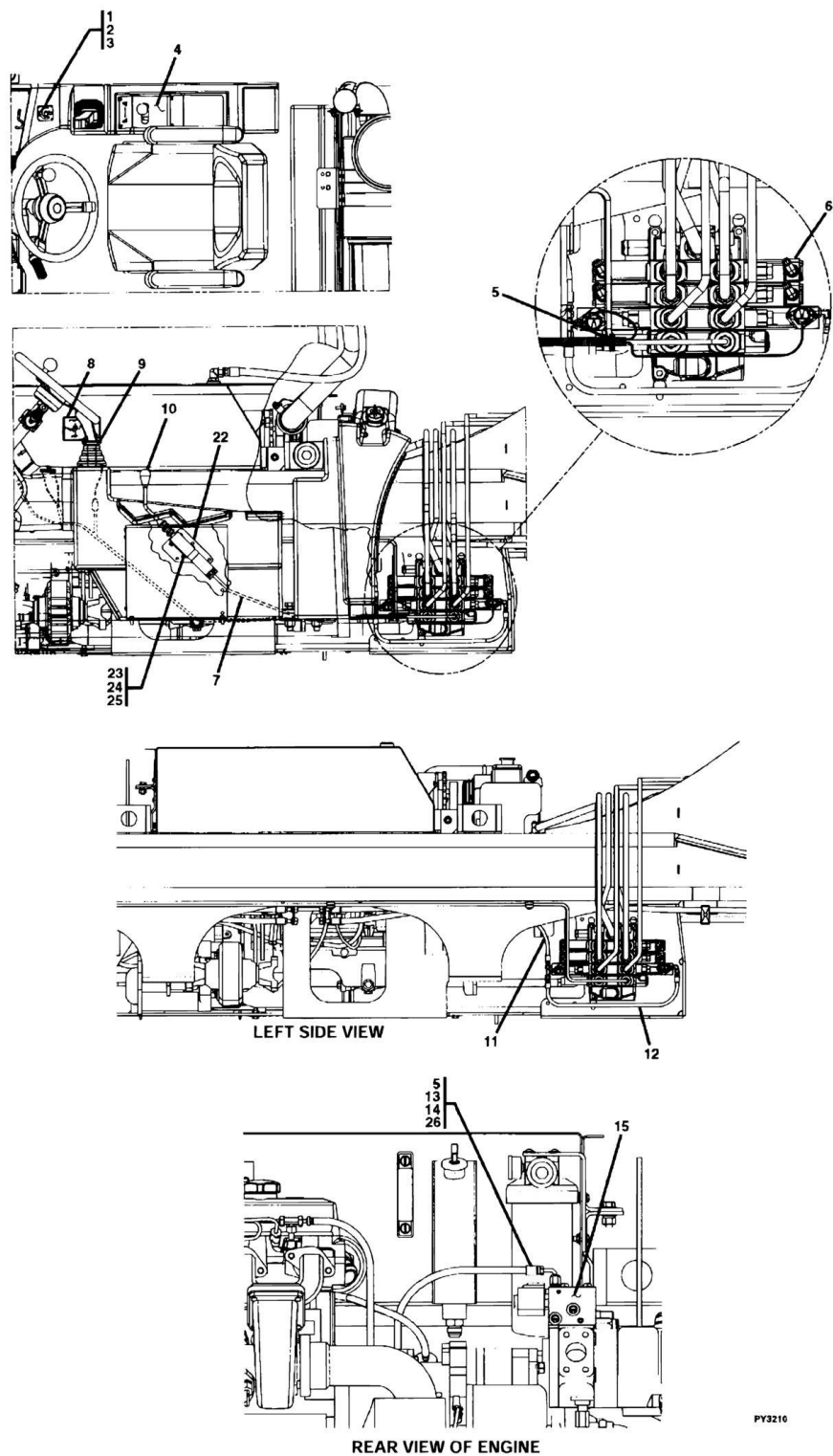
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FIGURE 12-12. STABILIZER OPTION - STABILIZER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513046	1	STABILIZER CYLINDER, (includes all items)	
1	91064017	1	LOCK NUT	
2	91144033	1	PISTON	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	Kit	1	O-RING	
6	Kit	1	O-RING	
7	91514066	1	SHAFT ASSEMBLY	
8	91514067	1	CASE ASSEMBLY	
9	Kit	1	O-RING	
10	Kit	1	BACK-UP RING	
11	Kit	2	WEAR RING	
12	Kit	1	STEP SEAL	
13	Kit	1	U-CUP	
14	91124096	1	SELF TAPPING SCREW	
15	91514069	1	HEAD	
16	Kit	1	CANNED WIPER	
17	91144128	1	GREASE FITTING	
K1	91514065	1	SEAL KIT, (includes items 3, 4, 5, 6, 9 thru 13 & 16)	

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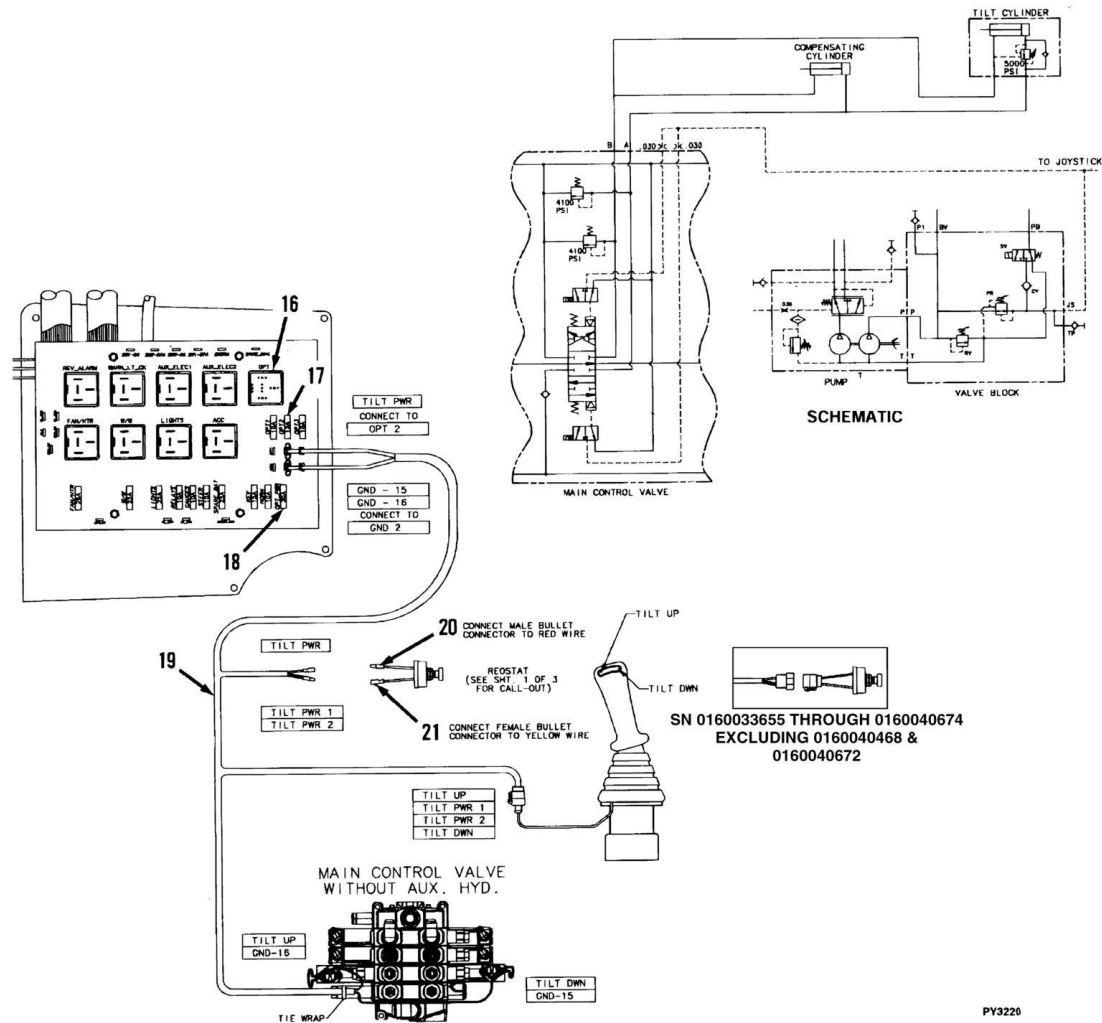
FIGURE 12-13. TILT ON JOYSTICK WITH RH SWAY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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NOTE: ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
USE LOCTITE® 0100075™ ON ALL HYDRAULIC FITTING THREADS.



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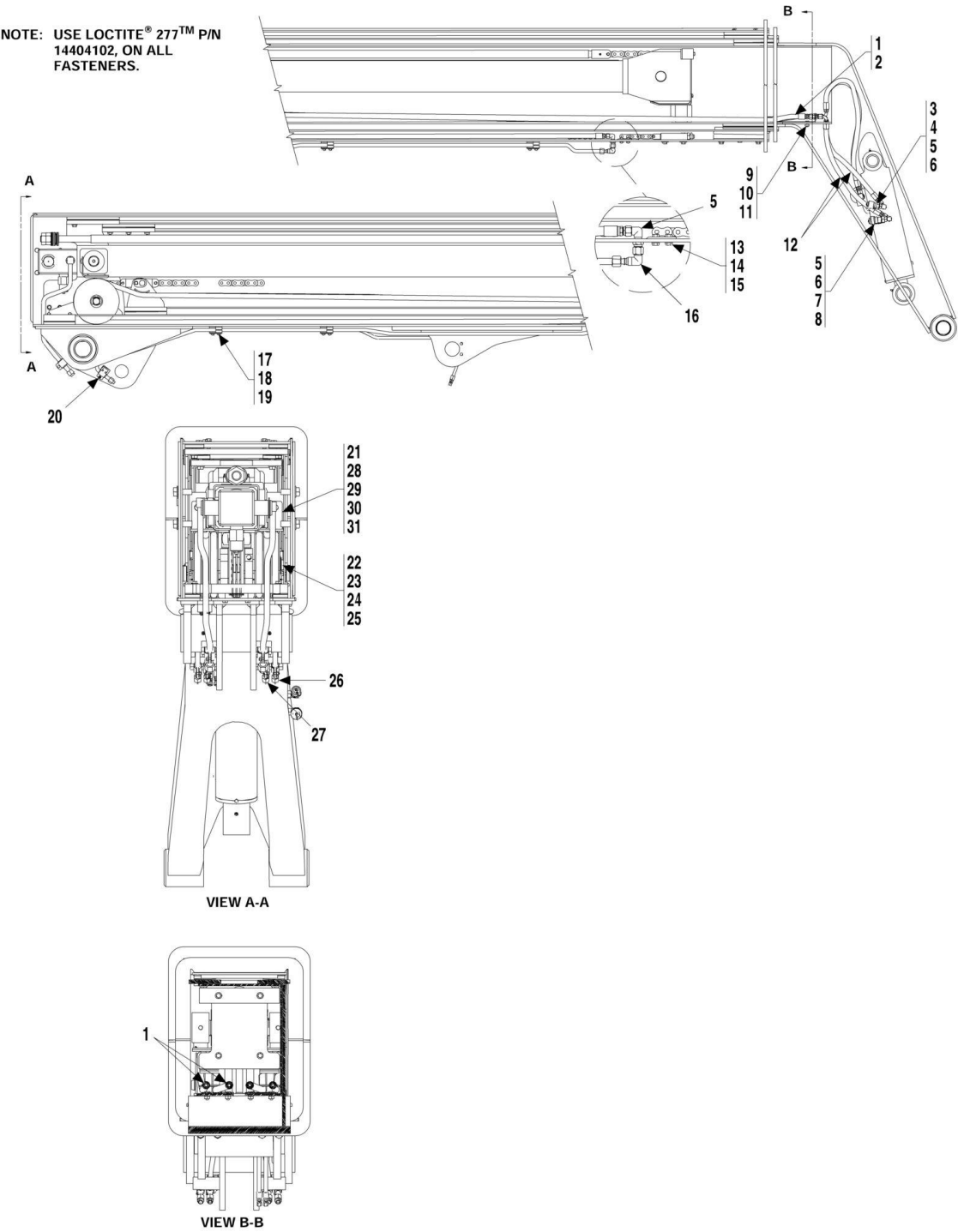
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FIGURE 12-13. TILT ON JOYSTICK WITH RH SWAY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515025	Ref	TILT ON JOYSTICK WITH RH SWAY INSTALLATION, (not available to order, see items 1 thru 26 for service)	
1	80964002	1	RHEOSTAT (Prior to SN 0160033655)	
1	1001099174	1	RHEOSTAT (SN 0160033655 through 0160040674, Excluding 0160040468 and 0160040672)	
2	91401571	1	MOUNTING PLATE	
3	88321015	4	SELF-TAPPING SCREW	
4	91413029	1	RH SWAY CONTROL PANEL (Prior to SN 0160000877)	
4	91413113	1	RH SWAY CONTROL PANEL (SN 0160000877 through 0160040674, Excluding 0160040468 and 0160040672)	
5	90027187	AR	TIE WRAP	
6		Ref	MAIN CONTROL VALVE, (See MAIN CONTROL VALVE WITH TILT ON JOYSTICK for Breakdown)	
6		Ref	MAIN CONTROL VALVE WITH AUX, (See MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS AND TILT ON JOYSTICK for Breakdown)	
7	91473146	1	CABLE	
8	91513201	1	BOOM CONTROL DECAL	
9		Ref	BOOM JOYSTICK WITH TILT, (See CONTROLS SECTION for Breakdown)	
10	91513204	1	RH SWAY CONTROL	
11	84719775	1	HOSE ASSY	
12	84719776	1	HOSE ASSY	
13	2220635	1	RUN TEE, (includes item 14)	
14	88591204	1	O-RING	
15		Ref	BRAKE CONTROL BLOCK VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
16	77363265	1	RELAY	
17	77363268	1	FUSE, 15 AMP	
18	77363269	1	FUSE, 30 AMP	
19	91513119	1	TILT ON JOYSTICK CAB HARNESS (Prior to SN 0160033655)	
19	1001099319	1	TILT ON JOYSTICK CAB HARNESS (SN 0160033655 through 0160040674, Excluding 0160040468 and 0160040672)	
20	86983193	1	MALE BULLET CONNECTOR (Prior to SN 0160033655)	
21	77163105	1	FEMALE BULLET CONNECTOR (Prior to SN 0160033655)	
22	91416011	1	RH SWAY BRACKET (Prior to SN 0160031470)	
22	1001092843	1	RH SWAY BRACKET (SN 0160031470 through 0160040674, Excluding 0160040468 and 0160040672)	
23	88201010	3	HEX HD CAPSCREW, 1/4-20X2-1/4, GR5 (Prior to SN 0160001830)	
23	88201009	3	HEX HD CAPSCREW, 1/4-20X2, GR5 (SN 0160001830 through 0160040674, Excluding 0160040468 and 0160040672)	
24	88551009	3	LOCKWASHER, 1/4	
25	88501004	3	HEX NUT, 1/4-20	
26	2220473	1	FITTING, 90	

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FIGURE 12-14. AUXILIARY BOOM ASSEMBLY (Prior to SN 0160037671)



SECTION 12 - OPTIONS

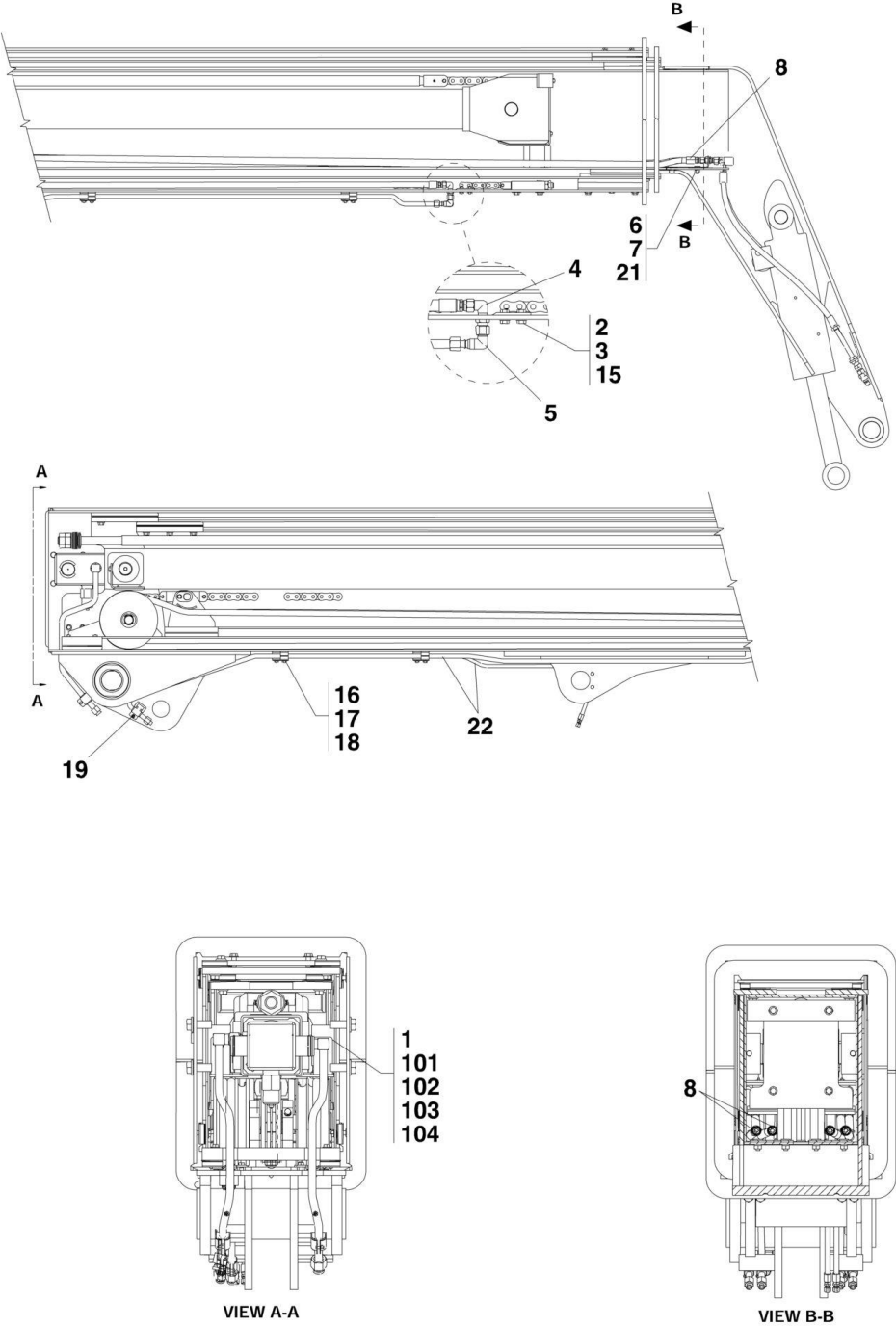
FIGURE 12-14. AUXILIARY BOOM ASSEMBLY (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515005	1	AUXILIARY BOOM ASSY, (includes all items)	D
1	84719754	2	HOSE ASSY	
2	88661085	2	BULKHEAD FITTING	
3	91403414	1	MALE QUICK CONNECT	
4	91043126	1	DUST CAP	
5	90027180	4	BULKHEAD FITTING	
6	91513106	2	FITTING, 90	
7	91403413	1	FEMALE QUICK CONNECT	
8	91043125	1	DUST PLUG	
9	88501006	2	HEX NUT, 3/8-16	
10	88551011	2	LOCKWASHER, 3/8	
11	91516015	1	HOSE RETAINER	
12	84719981	2	HOSE ASSY	
13	88201034	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
14	88561109	2	FLAT WASHER, 3/8	
15	0903449	1	HOSE BRACKET	
16	91513140	2	ADAPTER	
17	77133139	8	CLAMP SET	
18	77133140	8	COVER PLATE	
19	77133177	8	HEX HD CAPSCREW, 5/16-18X1-3/8	
20	91083217	2	CLAMP SET	
21	91515028	1	RH HOSE RETAINER ASSY, (includes items 28 thru 31)	
22	3580346	1	HOSE SHEAVE	
23	91403127	2	THRUST WASHER	
24	90028932	1	RETAINING RING	
25	91513110	1	RETRACT SHEAVE PIN	
26	4569363	1	TUBE ASSY (Prior to SN 0160037671)	
27	4569364	1	TUBE ASSY (Prior to SN 0160037671)	
28	91511111	1	RH HOSE RETAINER	
29	91513026	1	PAD	
30	88241023	4	SOCKET FLAT HD CAPSCREW, #10-24X5/8	
31	88501612	4	HEX NUT, 10-24	

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FIGURE 12-15. AUXILIARY BOOM ASSEMBLY (SN 0160037671 to Present)

NOTE: USE LOCTITE® 277™ P/N 14404102, ON ALL FASTENERS.



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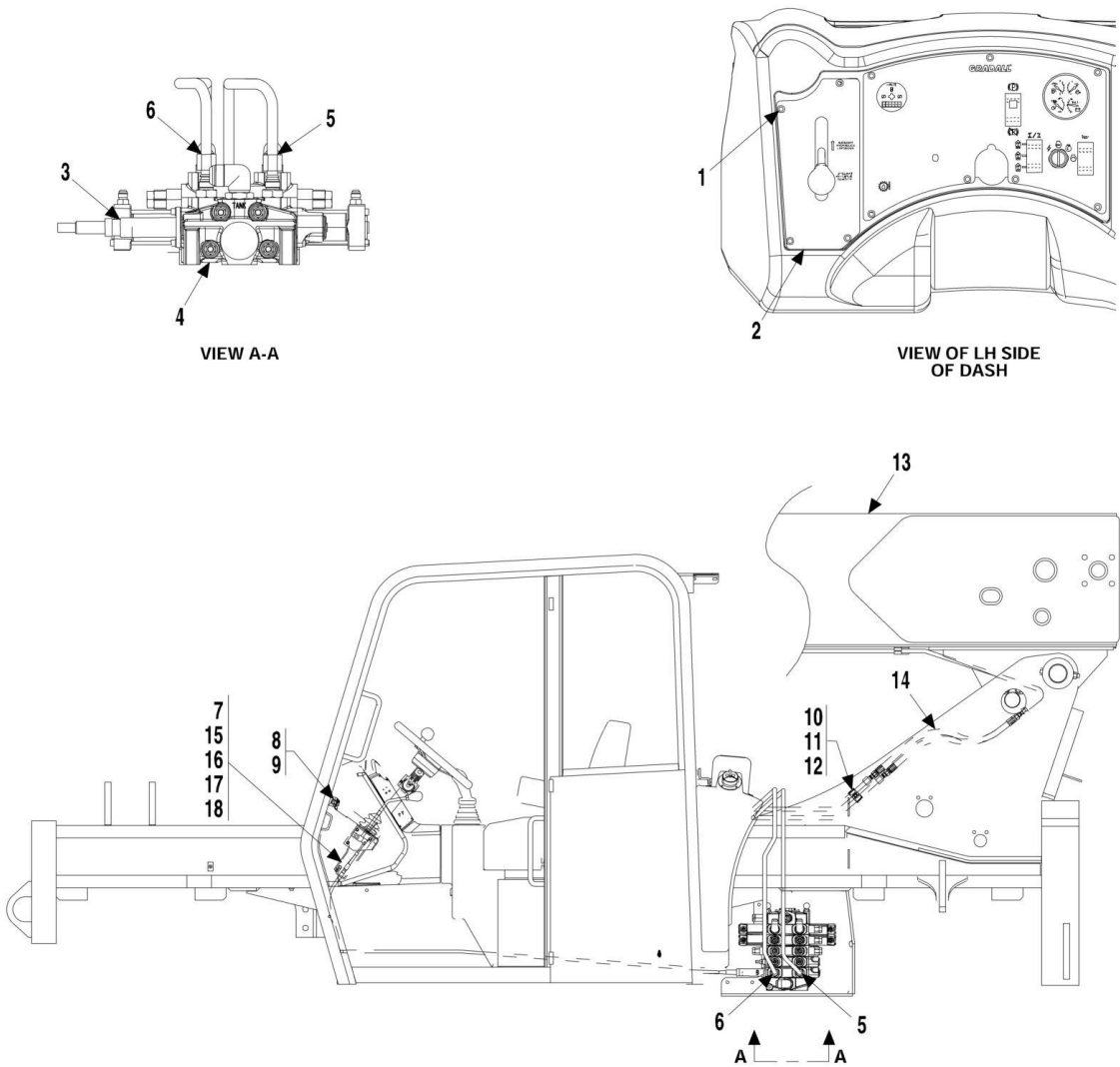
SECTION 12 - OPTIONS

FIGURE 12-15. AUXILIARY BOOM ASSEMBLY (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100094	1	AUXILIARY BOOM ASSY, (includes all items)	E
1	91515028	1	RH HOSE RETAINER ASSY, (includes items 101 thru 104)	D
2	0641607	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
3	4711600	2	FLAT WASHER, 3/8	
4	2171208	2	BULKHEAD FITTING	
5	2221254	2	ADAPTER	
6	1001101775	1	HOSE RETAINER (Prior to SN 0160040675)	
7	88501006	2	HEX NUT, 3/8-16 (Prior to SN 0160040675)	
8	1001102977	1	HOSE ASSY	
15	1001090126	1	HOSE BRACKET	
16	77133139	4	CLAMP SET	
17	77133140	4	COVER PLATE	
18	77133177	4	HEX HD CAPSCREW, 5/16-18X1-3/8	
19	91083217	2	CLAMP SET	
21	4761600	2	LOCKWASHER, 3/8 (Prior to SN 0160040675)	
22	1001001341	2	TUBE ASSY	
101	91511111	1	RH HOSE RETAINER	
102	91513026	1	PAD	
103	88241023	4	SOCKET FLAT HD CAPSCREW, #10-24X5/8	
104	88501612	4	HEX NUT, 10-24	

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FIGURE 12-16. LH AUXILIARY HYDRAULIC ASSEMBLY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



NOTE: ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
USE LOCTITE® 545™ (0100075) ON ALL HYDRAULIC FITTING THREADS.

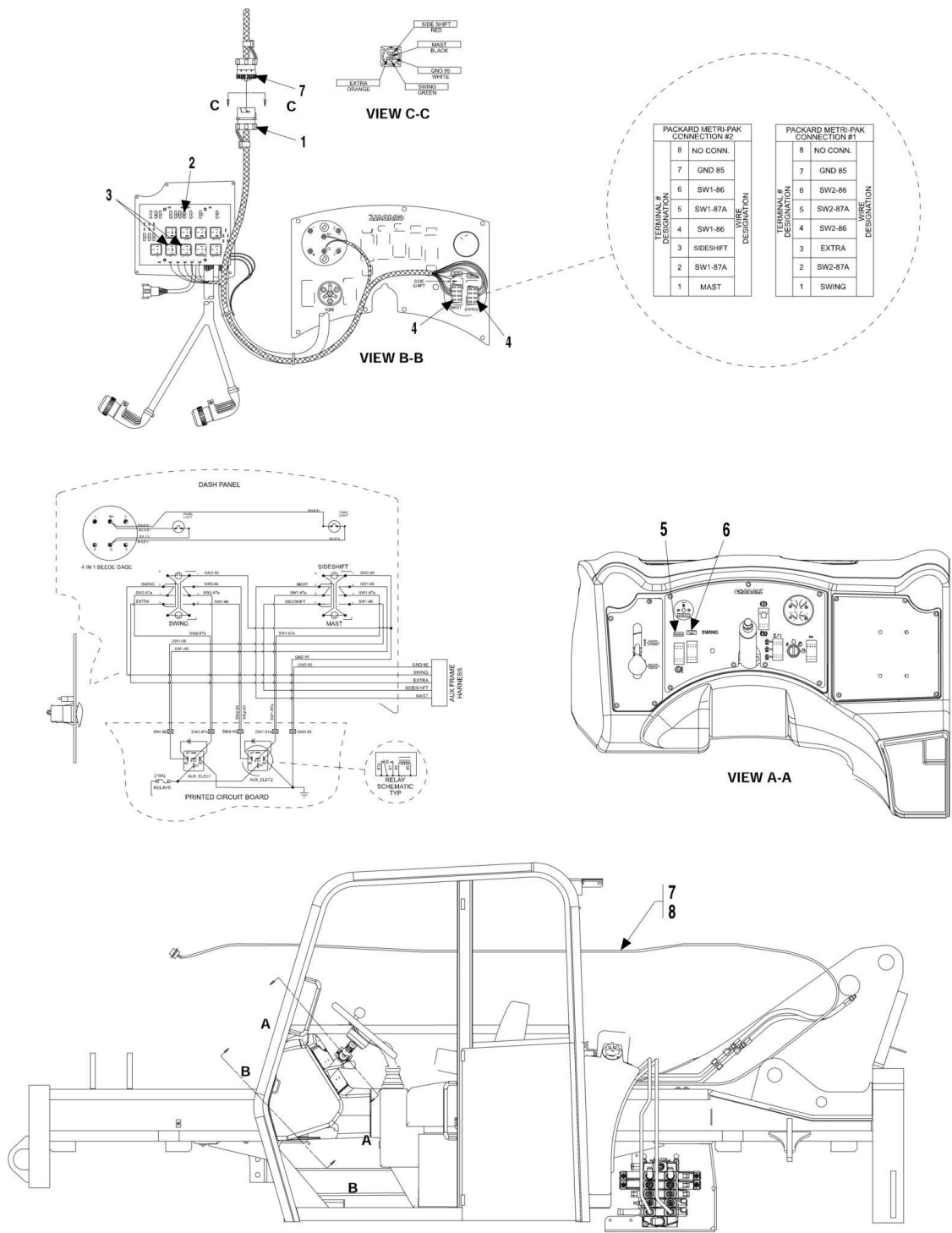
SECTION 12 - OPTIONS

FIGURE 12-16. LH AUXILIARY HYDRAULIC ASSEMBLY (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515020	1	LH AUX HYDRAULIC ASSY , (includes all items) (Prior to SN 0160038369, Excluding 0160033884)	E
	1001111805	1	LH AUX HYDRAULIC ASSY , (includes all items) (SN 0160038369 to Present, Including 0160033884)	B
1	80363033	4	FLAT HD CAPSCREW, #10-24X1	
2	91403316	1	LH DASH PANEL	
3	91513124	1	CABLE ADAPTER BONNET	
4		Ref	MAIN CONTROL VALVE, (See MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS for Breakdown)	
5	91513170	1	TUBE ASSY (Prior to SN 0160037671)	
5	1001112082	1	TUBE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
6	91513169	1	TUBE ASSY (Prior to SN 0160037671)	
6	1001112081	1	TUBE ASSY (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
7	91403273	1	LH AUX JOYSTICK	
7	91404091	1	OVAL KNOB HANDLE	
8	88201065	2	HEX HD CAPSCREW, 1/2-13X1, GR5	
9	88561111	2	FLAT WASHER, 1/2	
10	77133177	1	HEX HD CAPSCREW, 5/16-18X1-3/8	
11	77133140	1	COVER PLATE	
12	77133139	1	CLAMP SET	
13		Ref	AUX BOOM ASSY, (See AUXILIARY BOOM ASSEMBLY for Breakdown)	
14	84719875	2	HOSE ASSY (Prior to SN 0160038369, Excluding 0160033884)	
14	1001111542	2	HOSE ASSY, ORFS/JIC (SN 0160038369 to Present, Including 0160033884)	
15	91473088	1	CONTROL CABLE	
16	1001091157	1	LH BRACKET	
17	88201011	3	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	
18	88501004	3	HEX NUT, 1/4-20	

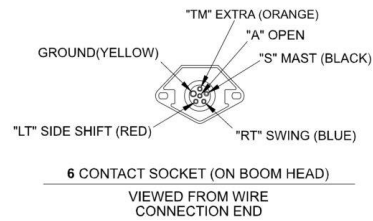
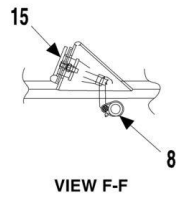
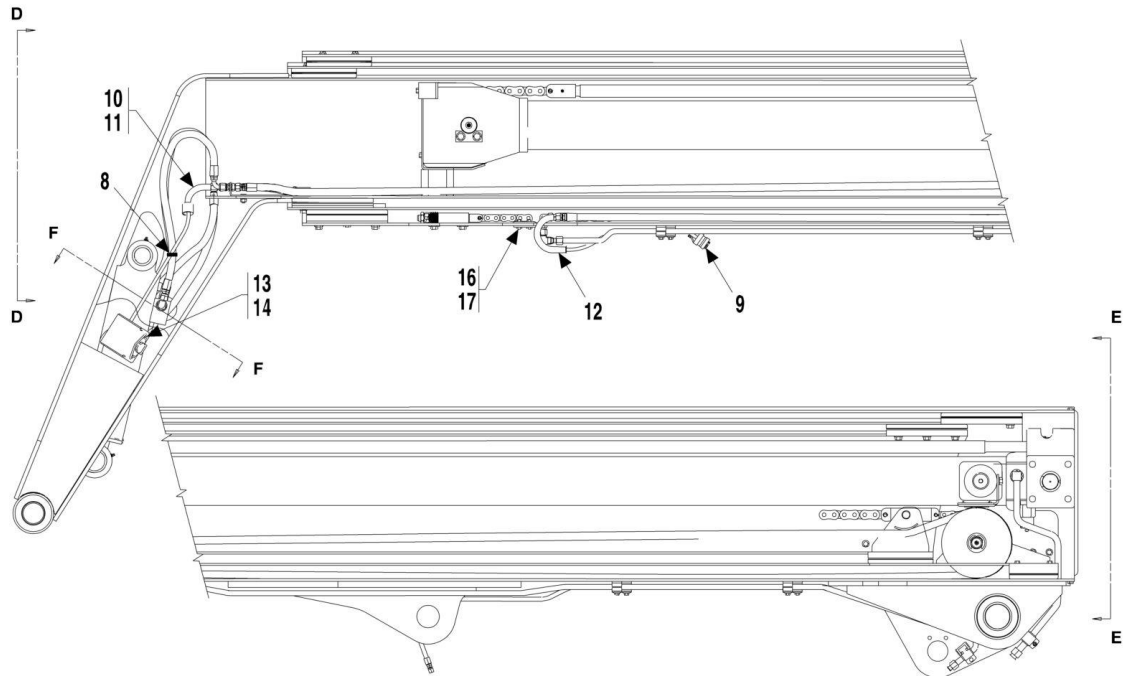
SECTION 12 - OPTIONS

FIGURE 12-17. AUXILIARY ELECTRICS ASSEMBLY (Prior to SN 0160037671)

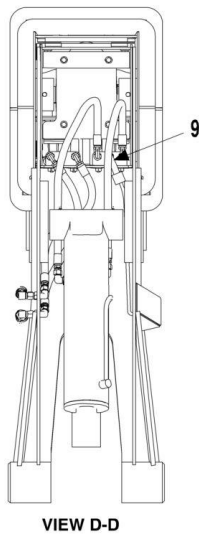


NOTE: ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
USE LOCTITE® 545™ (0100075) ON TUBE FITTINGS.

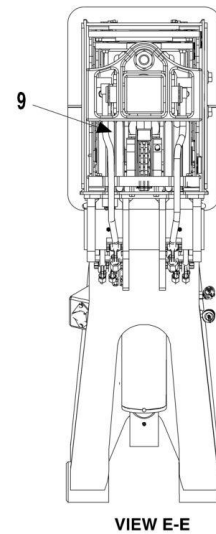
SECTION 12 - OPTIONS



WIRE CHART		
CONN. BODY LOC. LETTER	WIRE COLOR	WIRE DESIGNATION
A	BLACK	MAST
B	RED	SIDESHIFT
C	YELLOW	GND B5
D	BLUE	SWING
E	ORANGE	EXTRA
F	NO CONN.	NO CONN.



NOTE: ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
USE LOCTITE® 545™ (0100075) ON TUBE FITTINGS.



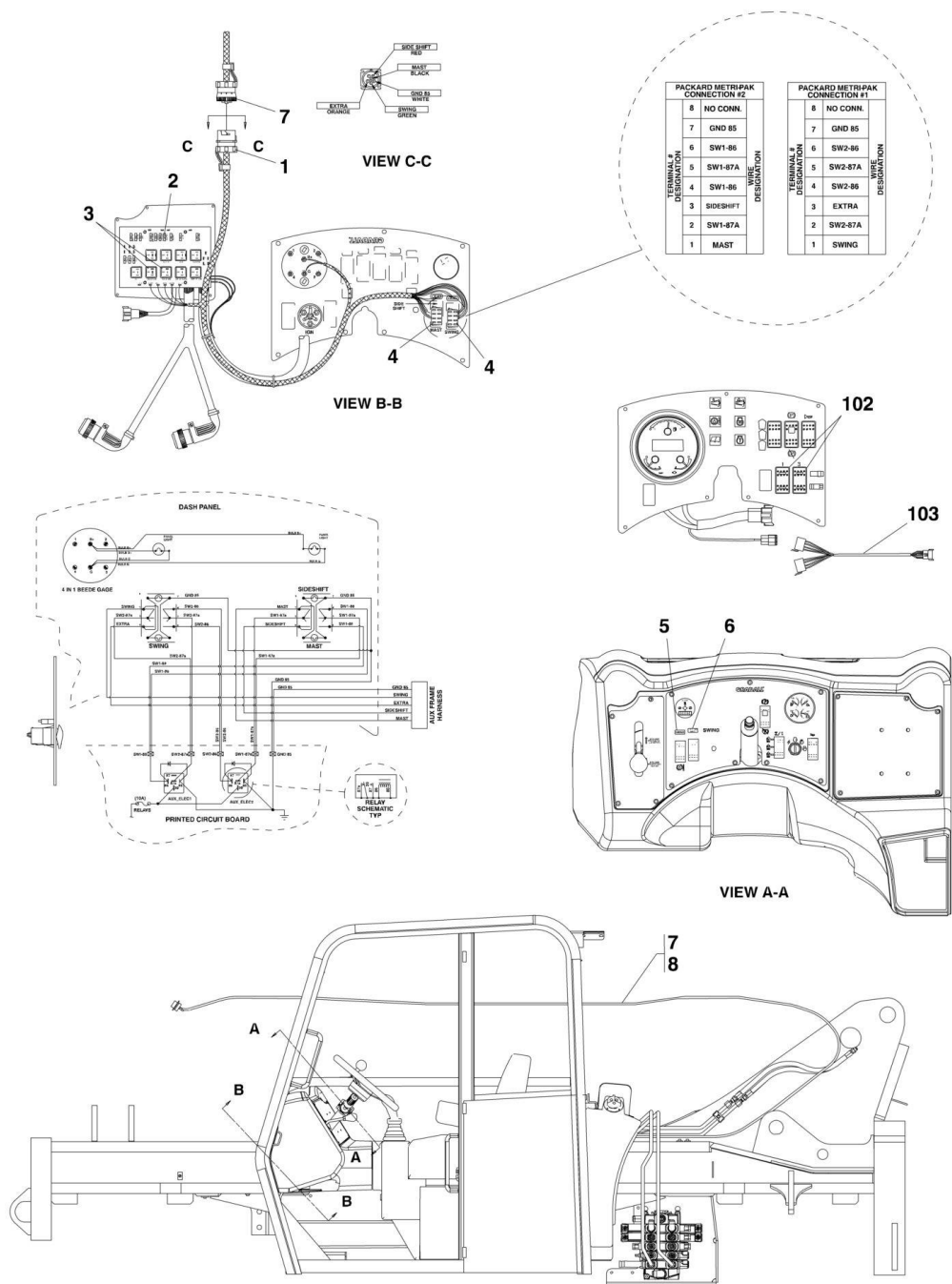
SECTION 12 - OPTIONS

FIGURE 12-17. AUXILIARY ELECTRICS ASSEMBLY (Prior to SN 0160037671)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515026	Ref	AUX ELECTRICS ASSY, (not available to order, see items 1 thru 17 for service)	
1	91473125	1	AUX DASH HARNESS	
2	77363267	1	10 AMP FUSE	
3	77363265	2	RELAY	
4	91473127	2	SWITCH, DPDT	
5	91403607	1	SWING DECAL	
6	91403606	1	SWING MAST DECAL	
7	91513162	1	AUX FRAME HARNESS	
8	90027187	8	TIE WRAP	
9	91513123	1	AUX ELECTRIC HARNESS	
10	88661085	1	BULKHEAD UNION, 3/4-16X1/2 TUBE	
11	91513115	1	AUX ELECTRIC TUBE, TOP	
12	91513116	1	AUX ELECTRIC TUBE, BOTTOM	
13	91401276	1	CONNECTOR COVER	
14	88201005	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
15	90207661	1	6 CONTACT SOCKET	
16	88201035	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
17	88561109	2	FLAT WASHER, 3/8	

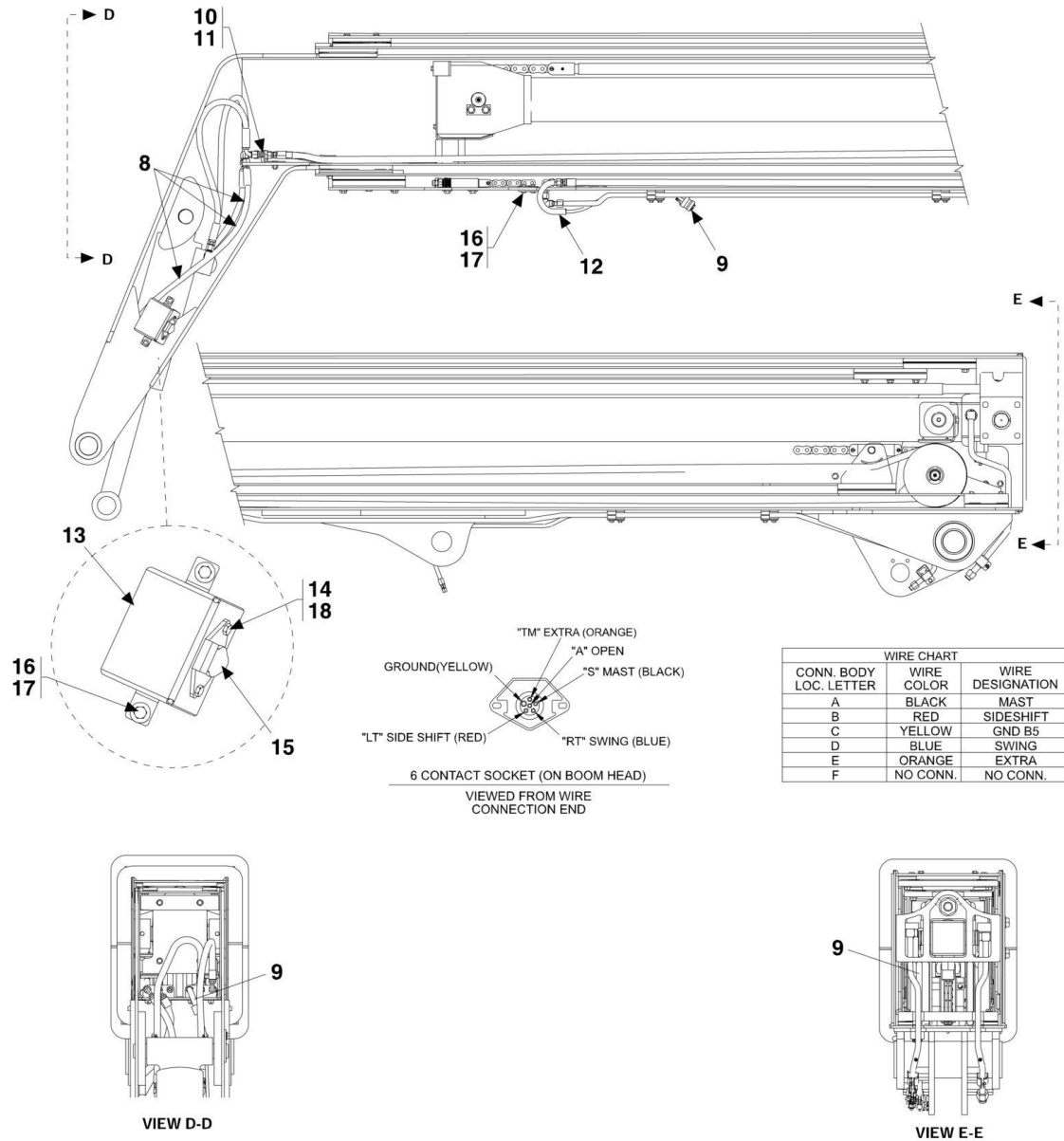
SECTION 12 - OPTIONS

FIGURE 12-18. AUXILIARY ELECTRICS ASSEMBLY (SN 0160037671 to Present)



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NOTE: ADD LOCTITE® 242™ (0100011) ON ALL BOLT THREADS.
USE LOCTITE® 545™ (0100075) ON TUBE FITTINGS.

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SECTION 12 - OPTIONS

FIGURE 12-18. AUXILIARY ELECTRICS ASSEMBLY (SN 0160037671 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101742	Ref	AUX ELECTRICS ASSY, (not available to order, see items 1 thru 18 for service)	B
1	91473125	1	AUX DASH HARNESS (Prior to SN 0160042801)	
2	77363267	1	AUTO FUSE, 10 AMP (Prior to SN 0160042801)	
3	77363265	2	RELAY (Prior to SN 0160042801)	
4	91473127	2	SWITCH, DPDT (Prior to SN 0160042801)	
5	91403607	1	SWING DECAL (Prior to SN 0160042801)	
6	91403606	1	SWING MAST DECAL (Prior to SN 0160042801)	
7	91513162	1	AUX FRAME HARNESS (Prior to SN 0160042801)	
7	1001128320	1	AUX FRAME HARNESS (SN 0160042801 to Present)	
8	8584003	9	NYLON TIE	
9	91513123	1	AUX ELECTRIC HARNESS	
10	2230025	1	BULKHEAD UNION, 3/4-16X1/2 TUBE	
11	91513115	1	AUX ELECTRIC TUBE, FRONT	
12	4569258	1	AUX ELECTRIC TUBE, BOTTOM	
13	1001099812	1	CONNECTOR COVER	
14	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
15	90207661	1	6 CONTACT SOCKET	
16	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
17	4711600	2	FLAT WASHER, 3/8	
18	4711400	2	FLAT WASHER, 1/4	
	91565066	Ref	CAB AUX ELECTRIC ASSY, (not available to order, see items 102 & 103 for service) (SN 0160042801 to Present)	B
102	91473127	2	SWITCH	
103		Ref	AUX ELECTRIC HARNESS, (See AUXILIARY ELECTRIC HARNESS for Breakdown)	

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FIGURE 12-19. SWAY CYLINDER VALVE

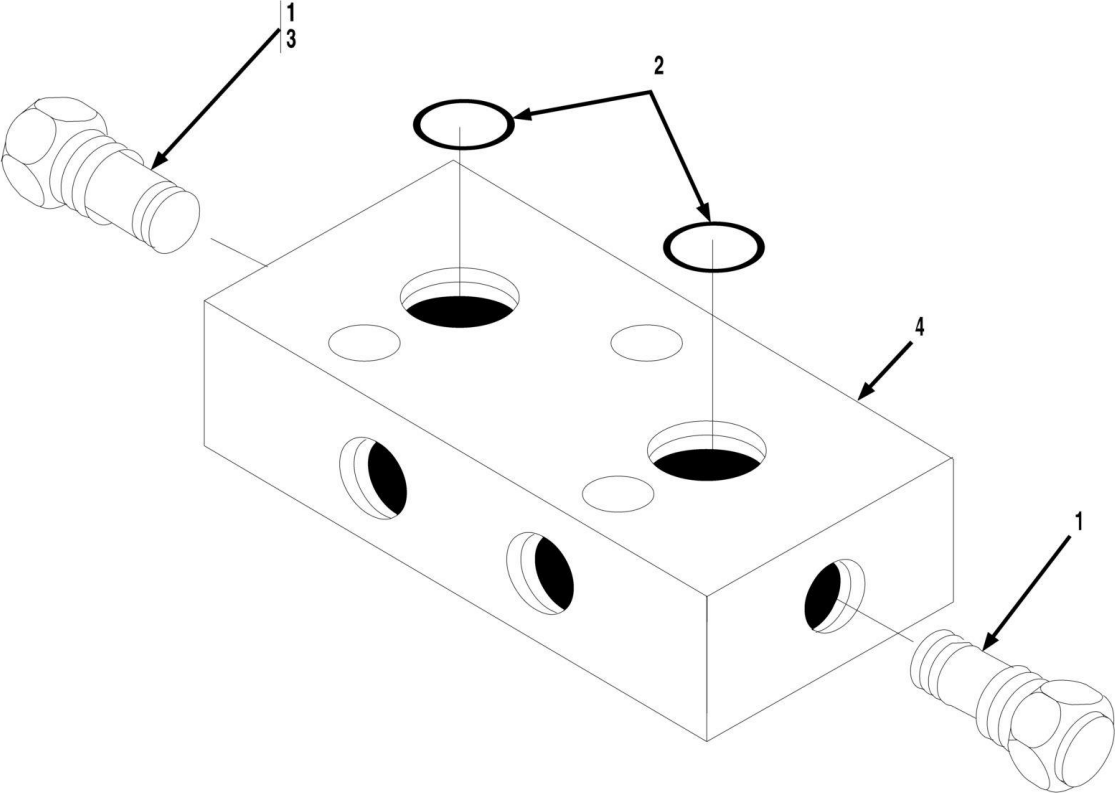


FIGURE 12-19. SWAY CYLINDER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91403180	1	SWAY CYLINDER VALVE, (includes all items)	
1	91404216	2	VALVE CARTRIDGE	
2	91404215	2	O-RING	
3	91404217	1	PISTON	
4	91404218	1	VALVE BODY	

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FIGURE 12-20. SWAY CYLINDER

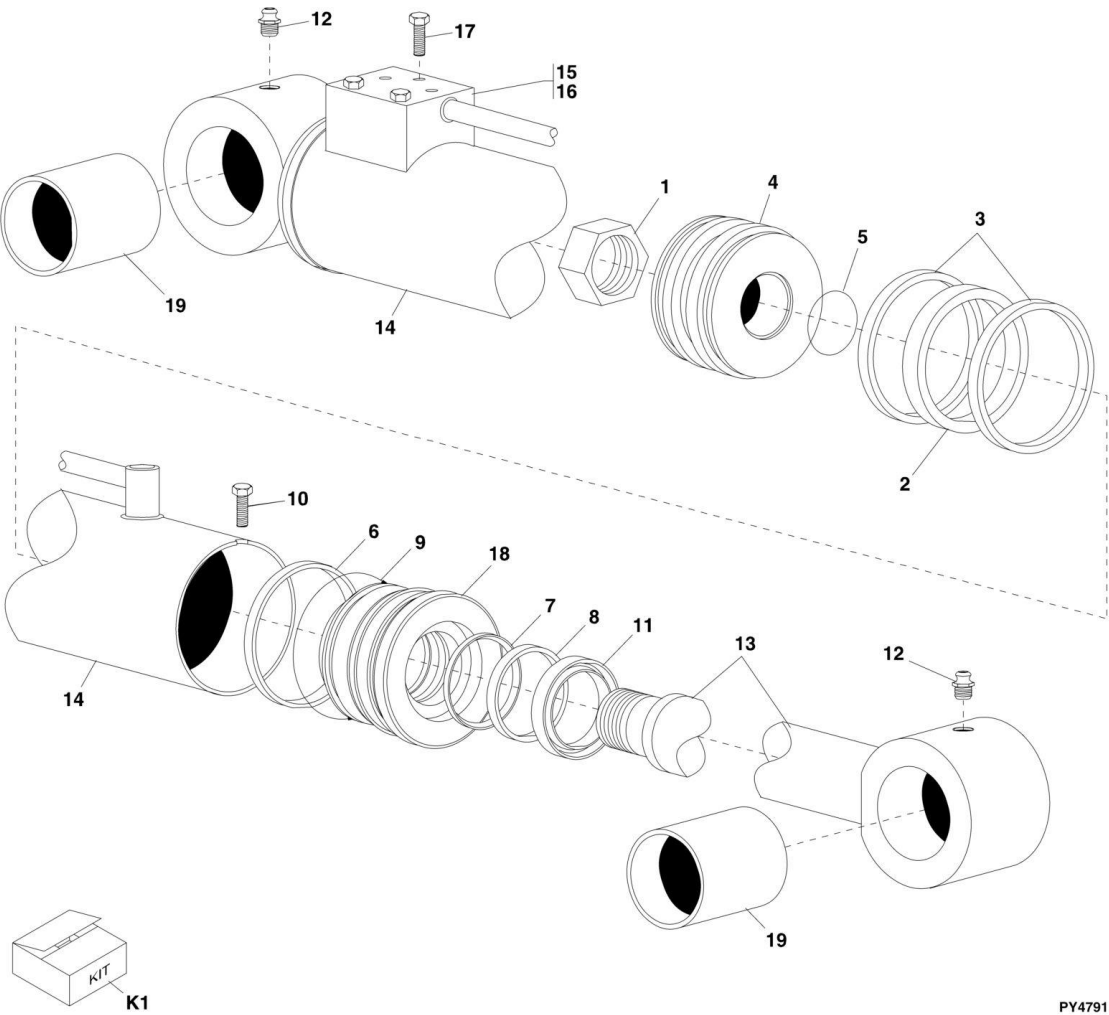
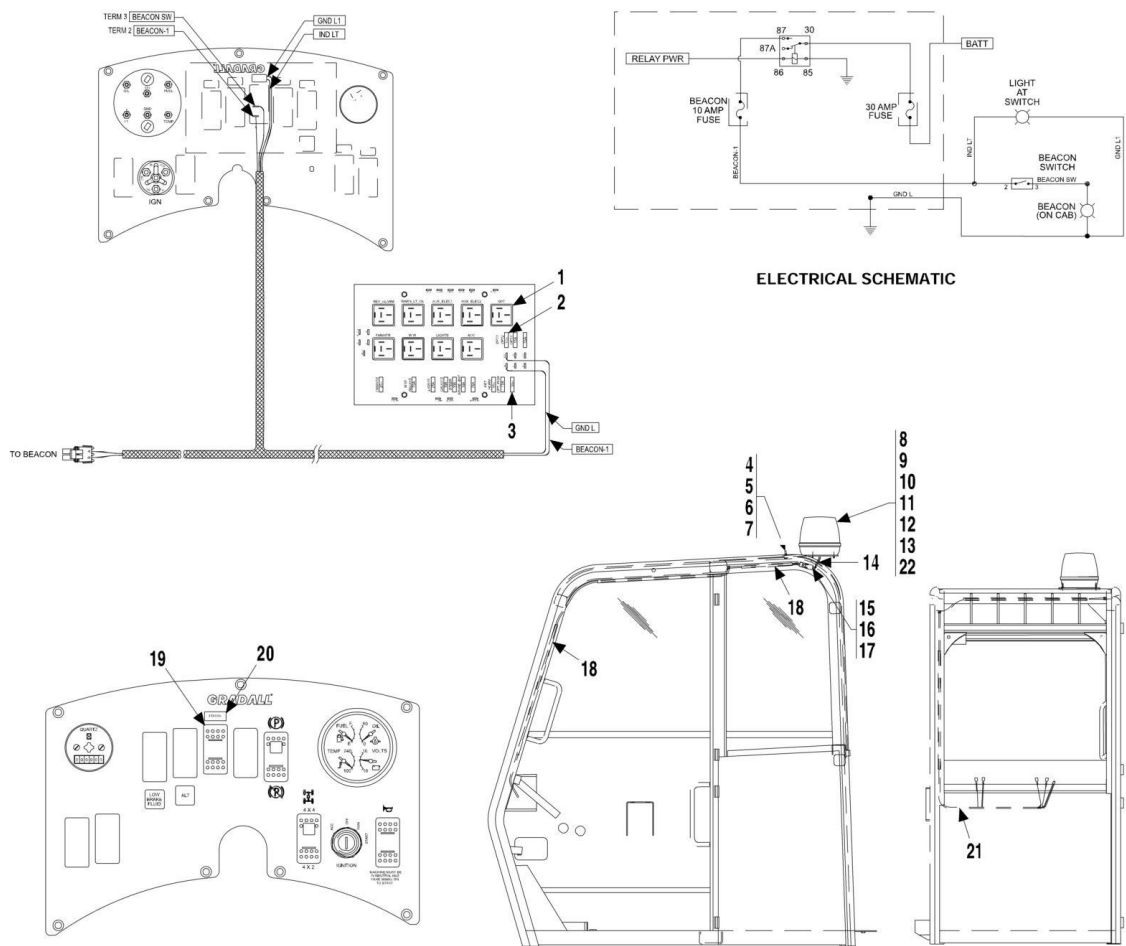


FIGURE 12-20. SWAY CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91403279	1	SWAY CYLINDER, (includes all items)	
1	91144038	1	LOCK NUT	
2	Kit	1	PISTON SEAL	
3	Kit	2	WEAR RING	
4	91404355	1	PISTON	
5	Kit	1	O-RING	
6	Kit	1	U-CUP SEAL	
7	Kit	1	STEP SEAL	
8	Kit	1	U-CUP SEAL	
9	Kit	1	O-RING	
10	91124096	1	SELF TAPPING SCREW	
11	Kit	1	WIPER	
12	91144128	2	GREASE FITTING	
13	91404361	1	SHAFT ASSY	
14	91404362	1	CASE ASSY	
15	91404363	1	COVER	
16	Kit	1	GASKET	
17	91404365	3	CAPSCREW	
18	91404366	1	HEAD	
19	91404352	2	BUSHING	
K1	91404367	AR	SEAL KIT, (includes items 2, 3, 5 thru 9, 11 & 16)	

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FIGURE 12-21. BEACON LIGHT INSTALLATION (Prior to SN 0160035414)



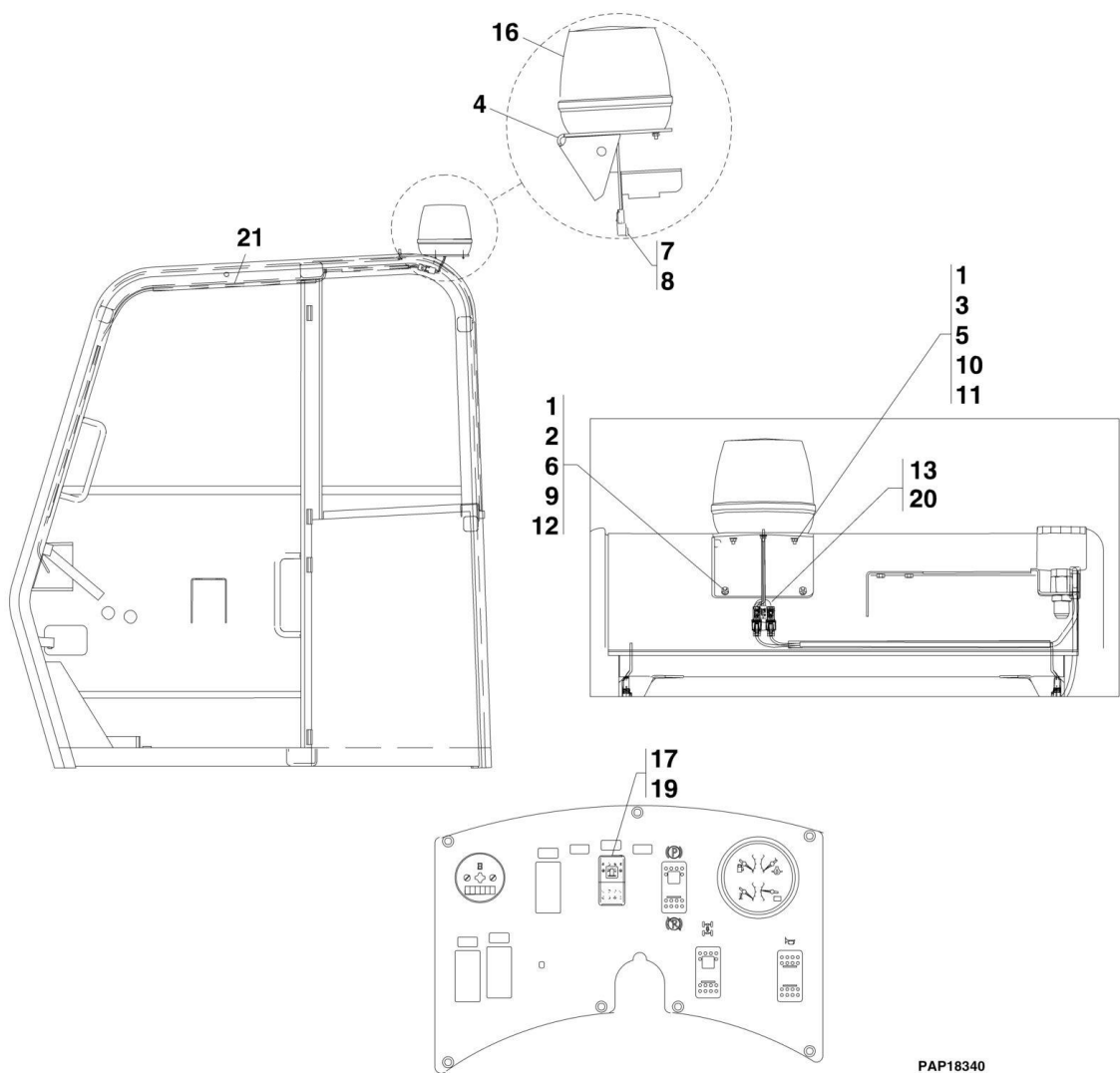
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FIGURE 12-21. BEACON LIGHT INSTALLATION (Prior to SN 0160035414)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475059	Ref	BEACON LIGHT INSTALLATION, (if equipped), (not available to order, see items 1 thru 22 for service)	D
1	77363265	1	RELAY	
2	77363267	1	10 AMP FUSE	
3	77363269	1	30 AMP FUSE	
4	88201005	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
5	88561002	2	FLAT WASHER, 1/4	
6	88551009	2	LOCKWASHER, 1/4	
7	88501004	2	HEX NUT, 1/4-20	
8	91343031	1	ROTATING BEACON, (includes item 22)	
9	91511206	1	BEACON BRACKET	
10	90027214	1	RUBBER GROMMET	
11	88301093	3	ROUND HD MACHINE SCREW, #10-24X3/4	
12	88551007	3	LOCKWASHER, #10	
13	88501612	3	HEX NUT, #10-24	
14	90029955	1	RUBBER GROMMET	
15	80963058	1	WEATHER PACK, (shroud)	
16	80963069	2	WEATHER PACK, (male pin terminal)	
17	80963065	2	WEATHER PACK, (cable seal)	
18	8096D097	79 in	ECONOMY WIRING DUCT	
19	91403304	1	TOGGLE SWITCH	
20	91413045	1	DECAL BEACON	
21	91413044	1	BEACON HARNESS	
22	91344053	1	BULB	

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FIGURE 12-22. BEACON LIGHT INSTALLATION (SN 0160035414 through 0160040674, Excluding 0160040468 and 0160040672)



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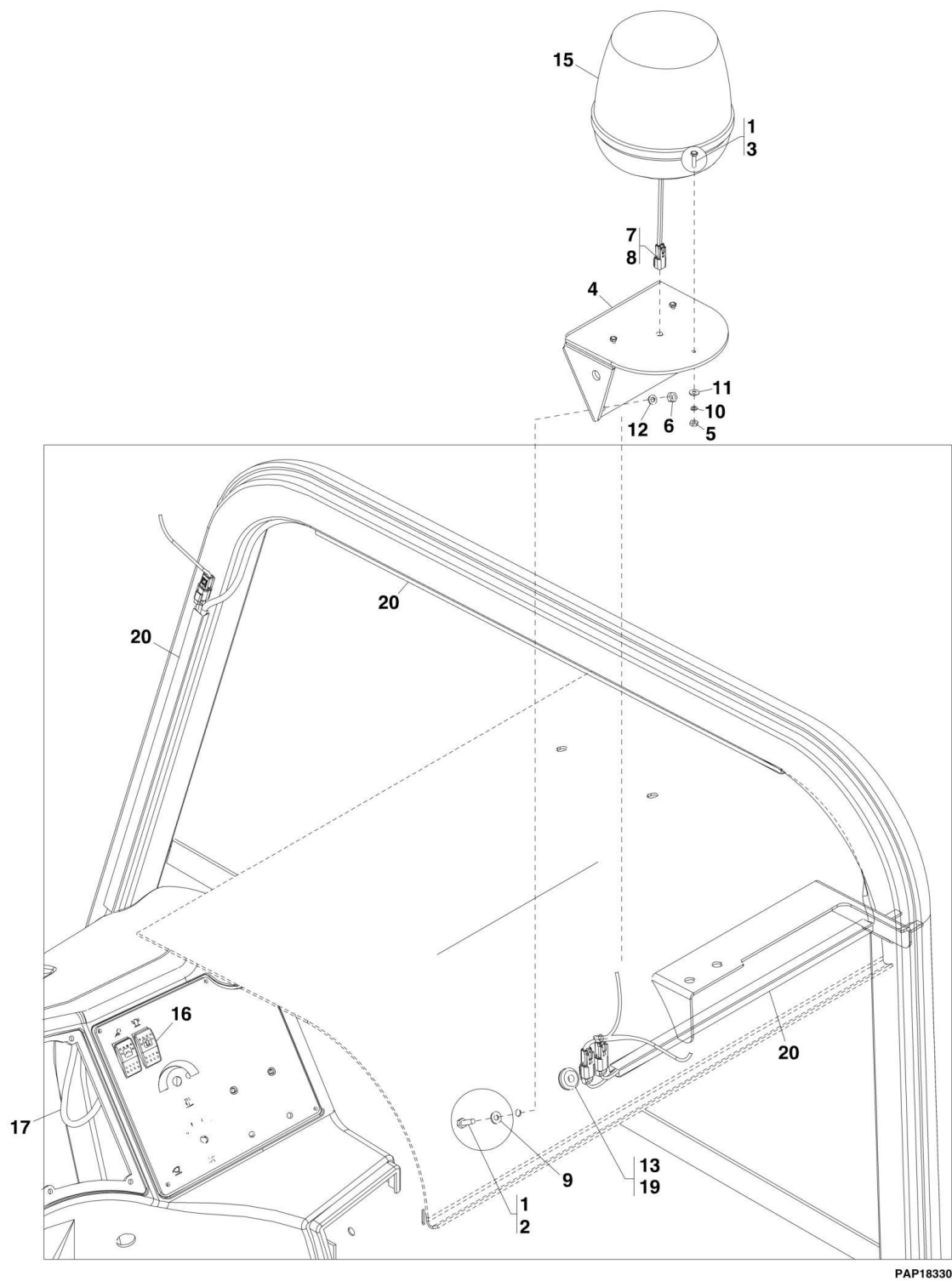
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FIGURE 12-22. BEACON LIGHT INSTALLATION (SN 0160035414 through 0160040674, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098035	Ref	BEACON LIGHT INSTALLATION, (if equipped), (not available to order, see items 1 thru 21 for service)	C
1	0100011	AR	LOCTITE 242	
2	0641407	2	HEX HD CAPSCREW, 1/4-20X7/8, GR5	
3	0721006	3	INDENTED HEX HD MACHINE SCREW, #10-24X3/4	
4	0903669	1	BEACON BRACKET	
5	3311001	3	HEX NUT, #10-24, GR2	
6	3311401	2	HEX NUT, 1/4-20, GR2	
7	4460508	2	TERMINAL	
8	4461017	1	2 POSITION TERMINAL	
9	4711400	2	WASHER, 1/4	
10	4751000	3	WASHER, #10	
11	4761000	3	LOCKWASHER, #10	
12	4761400	2	LOCKWASHER, 1/4	
13	14404173	AR	SILICONE SEALANT	
16	91343031	1	ROTATING BEACON	
16	91344053	1	BULB	
17	1001090461	1	BEACON SWITCH	
18		Ref	CAB WORKLIGHT HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
19		Ref	CAB WORKLIGHT AND BEACON LIGHT SWITCH HARNESS, (See ELECTRICAL SECTION for Breakdown)	
20	1001090615	1	GROMMET	
21	8096D097	72 in	ECONOMY WIRING DUCT	

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FIGURE 12-23. BEACON LIGHT INSTALLATION (SN 0160040675 through 0160059327, Including 0160040468 and 0160040672, Excluding 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)



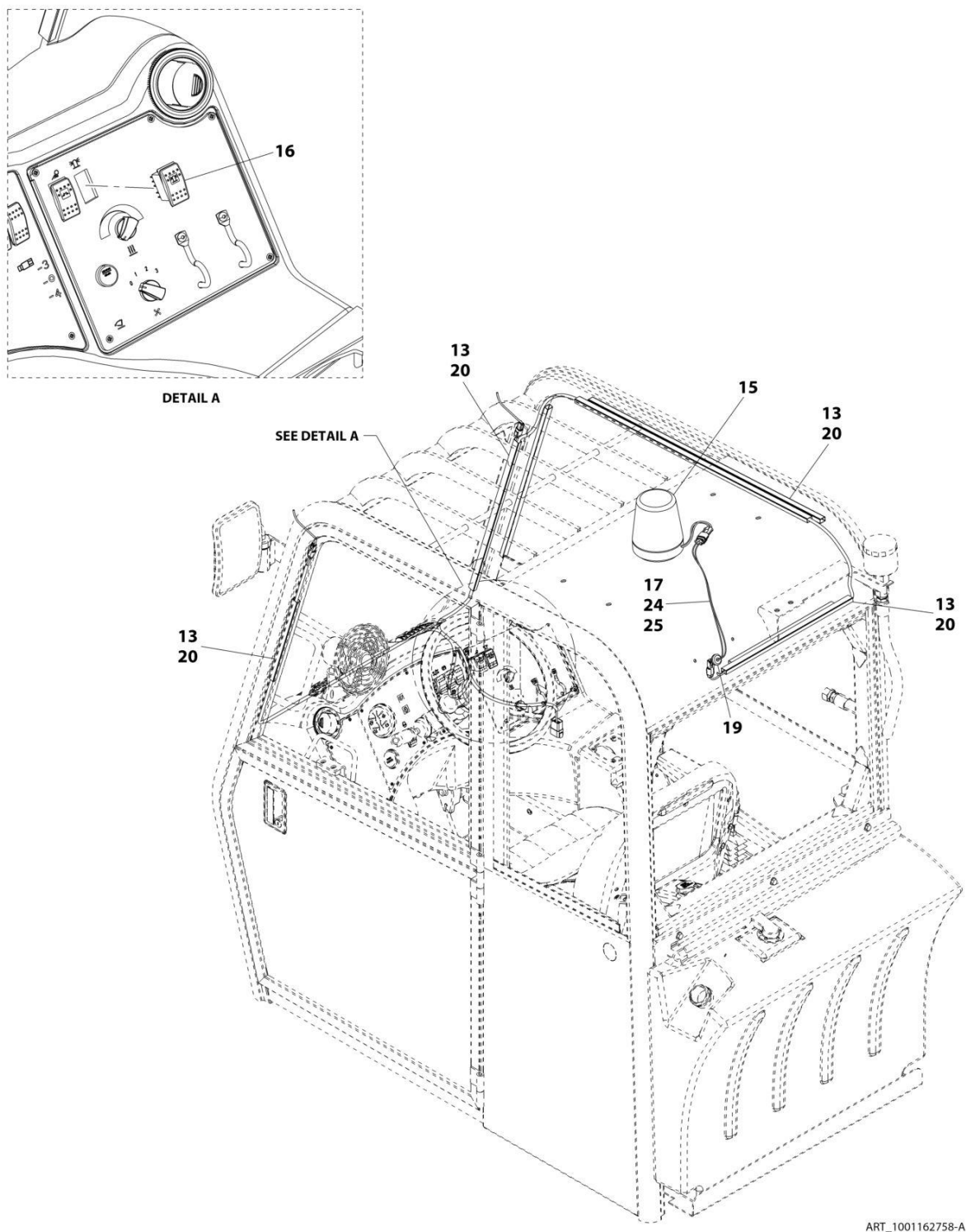
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FIGURE 12-23. BEACON LIGHT INSTALLATION (SN 0160040675 through 0160059327, Including 0160040468 and 0160040672, Excluding 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114492	Ref	BEACON LIGHT INSTALLATION, (if equipped), (not available to order, see items 1 thru 20 for service)	B
1	0100011	AR	LOCTITE 242	
2	0641407	2	HEX HD CAPSCREW, 1/4-20X7/8, GR5	
3	0721006	3	INDENTED HEX HD MACHINE SCREW, #10-24X3/4	
4	0903669	1	BEACON BRACKET	
5	3311001	3	HEX NUT, #10-24, GR2	
6	3311401	2	HEX NUT, 1/4-20, GR2	
7	4460508	2	TERMINAL	
8	4461017	1	2 POSITION TERMINAL	
9	4711400	2	WASHER, 1/4	
10	4751000	3	WASHER, #10	
11	4761000	3	LOCKWASHER, #10	
12	4761400	2	LOCKWASHER, 1/4	
13	14404173	AR	SILICONE SEALANT	
15	91343031	1	ROTATING BEACON	
15	91344053	1	BULB	
16	1001090461	1	BEACON SWITCH	
17		Ref	CAB WORKLIGHT HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
19	1001090615	1	GROMMET	
20	8096D097	72 in	ECONOMY WIRING DUCT	

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FIGURE 12-24. BEACON LIGHT INSTALLATION (SN 0160059335 to Present, Including 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)



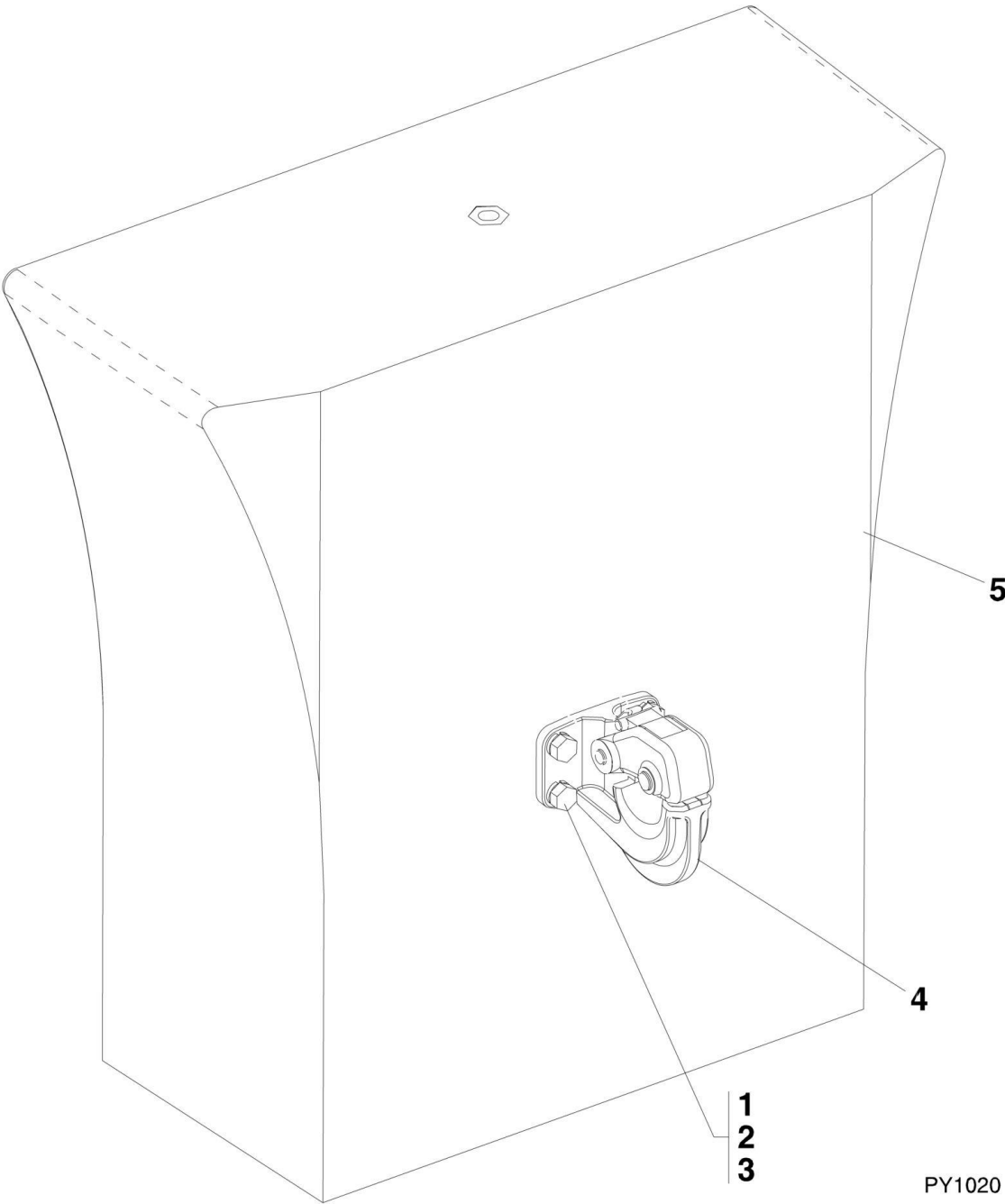
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FIGURE 12-24. BEACON LIGHT INSTALLATION (SN 0160059335 to Present, Including 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162758	Ref	BEACON LIGHT INSTALLATION, (if equipped), (not available to order, see items 13 thru 25 for service)	A
13	14404173	AR	SELANT, SILICONE	
15	8500066	1	BEACON, ROTATING	
16	1001090461	1	SWITCH, BEACON	
17	1001158896	1	HARNESS,CAB WORK LIGHTS (See Separate Breakdown in ELECTRICAL Section)	
19	1001090615	1	GROMMET	
20	8096D097	1	DUCT, ECONOMY WIRING	
24	1001117021	1	CONNECTOR	
25	8220890	1	CONNECTOR	

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FIGURE 12-25. PINTLE HOOK INSTALLATION



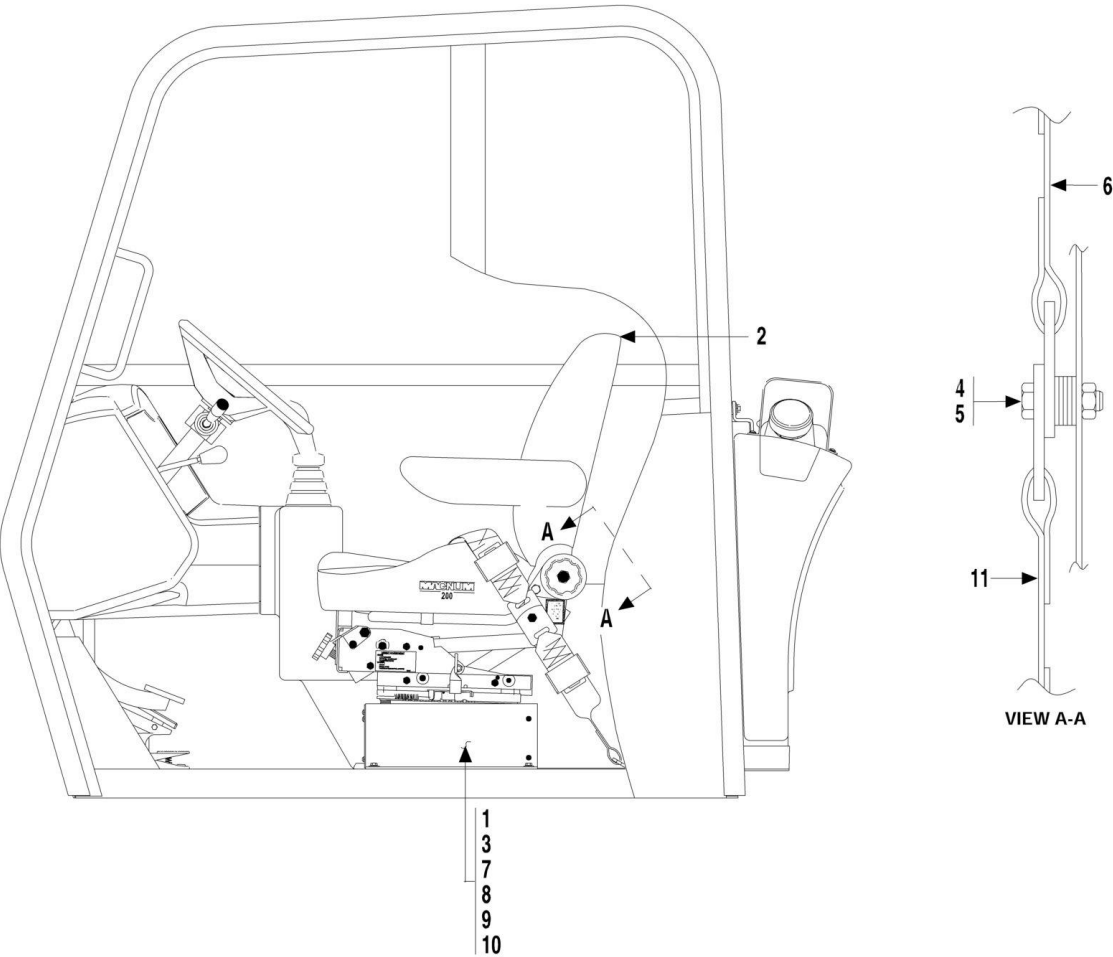
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FIGURE 12-25. PINTLE HOOK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001097095	1	PINTLE HOOK INSTALLATION, (includes all items)	C
1	0100011	AR	LOCTITE 242	
2	0681814	4	HEX HD CAPSCREW, 1/2-13X1-3/4	
3	88551013	4	LOCKWASHER, 1/2	
4	90200602	1	PINTLE HOOK	
5		Ref	COUNTERWEIGHT, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	

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FIGURE 12-26. SUSPENSION SEAT (SN 0193001 through 0193007, SN 0160000008 through 0160015259)



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FIGURE 12-26. SUSPENSION SEAT (SN 0193001 through 0193007, SN 0160000008 through 0160015259)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91403527	NLA	SUSPENSION SEAT OPTION, (includes all items), (no longer available, See HEAVY DUTY SEAT REPLACEMENT KIT for Breakdown)	
1	91405050	1	SEAT RISER ASSY, (includes items 3, 7, 9 & 10)	
2	91403527	1	TRIMLINE MAGNUM 200 SEAT	
3	88551009	6	LOCKWASHER, 1/4	
4	88201551	2	HEX HD CAPSCREW, 7/16-20X1-1/2, GR5	
5	88561111	10	FLAT WASHER, 1/2	
6	91033029	1	STD SEAT BELT	
6	91033486	1	CALIFORNIA SEAT BELT	
7	91406116	1	SUSPENSION RISER WELDMENT	
8	91406114	1	ACCESS, BEZEL WELDMENT	
9	91401417	1	ACCESS COVER	
10	88261015	6	SOCKET BUTTON HD CAPSCREW, 1/4-20X5/8	
11	91403191	1	TETHER	

SECTION 12 - OPTIONS

FIGURE 12-27. SWING CYLINDER

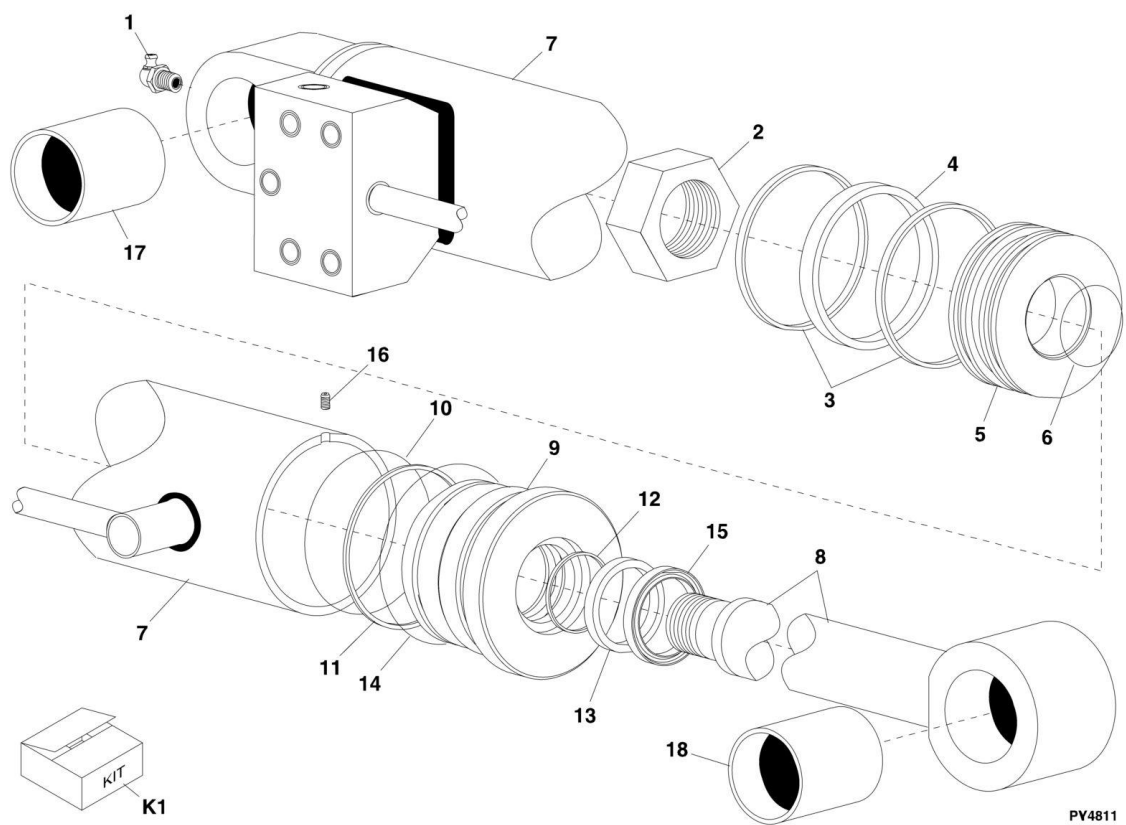
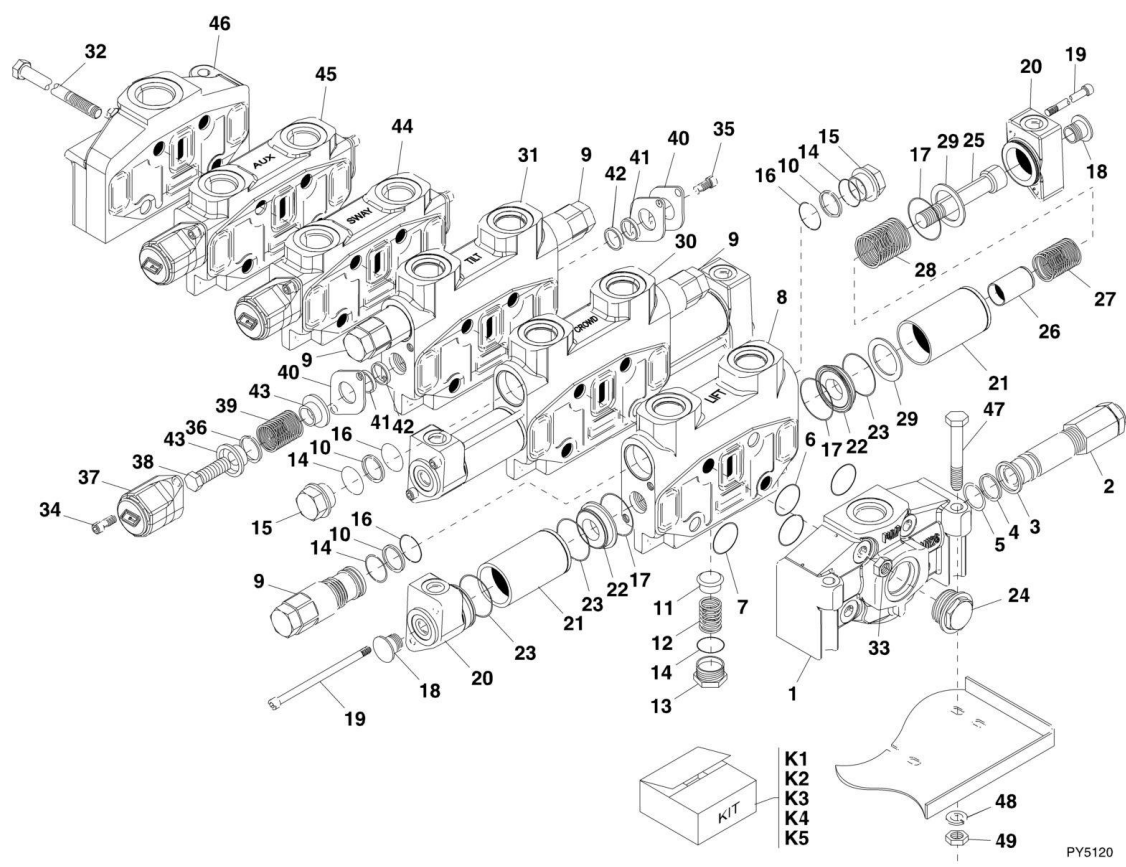


FIGURE 12-27. SWING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91403322	1	SWING CYLINDER, (includes all items)	
1	91144125	1	GREASE FITTING	
2	91034156	1	LOCKNUT	
3	Kit	2	WEAR RING	
4	Kit	1	PISTON SEAL	
5	91404370	1	PISTON	
6	Kit	1	O-RING	
7	91404371	1	CASE ASSY	
8	91404372	1	SHAFT ASSY	
9	91404373	1	HEAD	
10	Kit	1	O-RING	
11	Kit	1	BACK-UP RING	
12	Kit	1	STEP SEAL	
13	Kit	1	U-CUP	
14	Kit	1	O-RING	
15	Kit	1	WIPER	
16	91404380	1	SETSCREW	
17	91034157	1	BUSHING	
18	91144267	1	BUSHING	
K1	91404381	AR	SEAL KIT, (includes items 3, 4, 6 & 10 thru 15)	

SECTION 12 - OPTIONS

FIGURE 12-28. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS (Prior to SN 0160037671)



SECTION 12 - OPTIONS

FIGURE 12-28. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS (Prior to SN 0160037671)

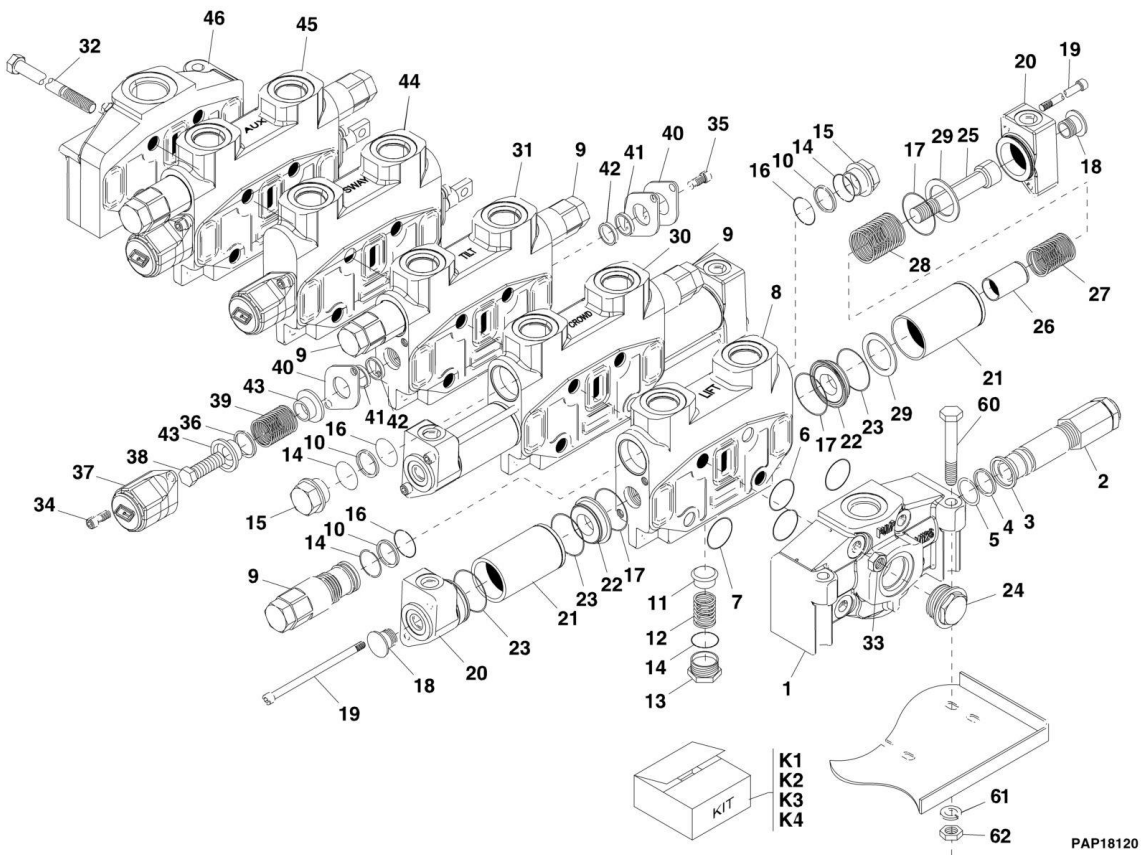
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513045	1	MAIN CONTROL VALVE, (includes items 1 thru 46)	B
1	91514228	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 and three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	6	O-RING	
7	Kit	18	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28 two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	4	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	5	TRANSITION CHECK POPPET	
12	N.S.S.	5	CHECK SPRING	
13	N.S.S.	5	CHECK CAP	
14	Kit	11	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	N.S.S.	8	HEX SOCKET CAPSCREW	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	8	SEAL	
24	91514233	1	PLUG	
25	N.S.S.	2	SHOULDER BOLT	
26	N.S.S.	2	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	91514235	1	VALVE SECTION ASSY, (tilt), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 9, 34, 35 & 41 thru 43 and three of items 7 & 40)	
32	Kit	4	STUD ASSY, (includes item 33)	
33	Kit	4	HEX NUT	
34	N.S.S.	6	SCREW	
35	N.S.S.	6	SCREW	
36	N.S.S.	2	SPACER	
37	N.S.S.	3	VALVE CAP	
38	N.S.S.	3	STRIPPER BOLT	
39	N.S.S.	3	RETURN SPRING	
40	N.S.S.	9	RETAINING PLATE	
41	Kit	6	BACK-UP RING, (teflon)	
42	Kit	6	QUAD SEAL	
43	N.S.S.	6	SPRING GUIDE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	91514236	1	VALVE SECTION ASSY, (sway), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
45	91514238	1	VALVE SECTION ASSY, (aux), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 34, 35 & 41 thru 43 and three of items 7 & 40)	
46	91514237	1	OUTLET COVER ASSY	
47	88411074	3	ROUND HD CARRIAGE BOLT, 3/8-16X4	
48	88551011	3	LOCKWASHER, 3/8	
49	88501006	3	HEX NUT, 3/8-16	
K1	91514220	6	VALVE SECTION SEAL KIT, (includes one of item 6 and three of item 7)	
K2	91514221	1	MAIN RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514226	3	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K4	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 and four of item 23)	
K5	91514247	1	STUD KIT, (includes items 32 & 33)	

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FIGURE 12-29. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)



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FIGURE 12-29. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)

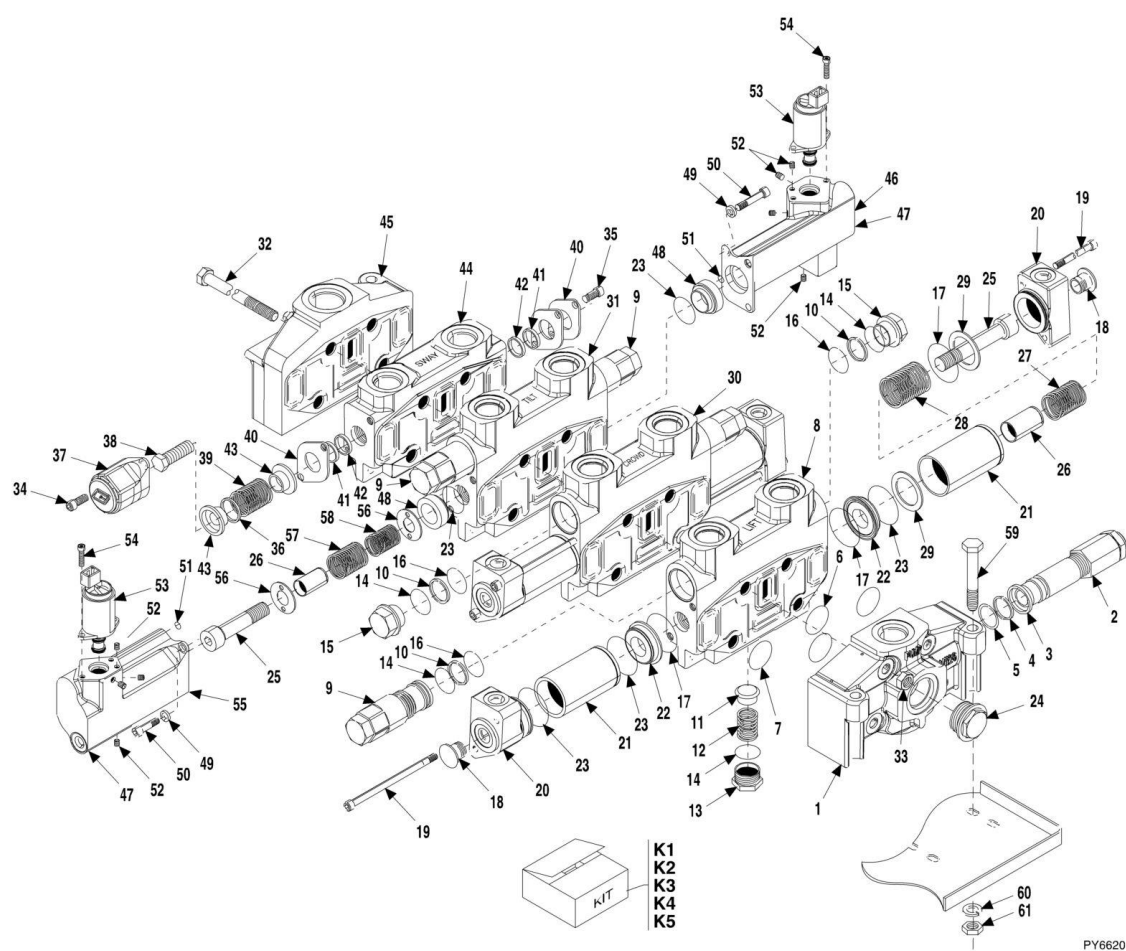
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001109216	1	MAIN CONTROL VALVE ASSY, (includes items 1 thru 59)	B
1	7029963	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 and three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	6	O-RING	
7	Kit	18	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	6	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	5	TRANSITION CHECK POPPET	
12	N.S.S.	5	CHECK SPRING	
13	N.S.S.	5	CHECK CAP	
14	Kit	11	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	N.S.S.	8	HEX SOCKET CAPSCREW	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	10	SEAL	
24	N.S.S.	1	PLUG	
25	N.S.S.	3	SHOULDER BOLT	
26	N.S.S.	3	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28 two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	70023870	1	VALVE SECTION ASSY, (tilt), (includes items 41, 48 & 57, one of items 6 & 11 thru 14 two of item 9 and three of item 7)	
32	7029966	4	STUD ASSY, (includes item 33)	
33	N.S.S.	4	HEX NUT	
34	N.S.S.	4	SCREW	
35	N.S.S.	4	SCREW	
36	N.S.S.	1	SPACER	
37	N.S.S.	2	VALVE CAP	
38	N.S.S.	2	STRIPPER BOLT	
39	N.S.S.	2	RETURN SPRING	
40	N.S.S.	6	RETAINING PLATE	
41	Kit	6	BACK-UP RING, (teflon)	
42	Kit	4	QUAD SEAL	
43	N.S.S.	4	SPRING GUIDE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	7029964	1	VALVE SECTION ASSY, (sway), (includes one of items 6, 11 thru 14 & 36 thru 39 two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
45	70023871	1	VALVE SECTION ASSY, (aux), (includes one of items 6, 11 thru 14 & 37 thru 39 two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
46	91514237	1	OUTLET COVER ASSY	
47	N.S.S.	1	SPRING	
48	91514240	1	END CAP ASSY, (includes one of items 23, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
49	N.S.S.	2	END CAP	
50	N.S.S.	2	RETAINER SEAL	
51	N.S.S.	4	LOCKWASHER	
52	N.S.S.	4	CAPSCREW, 1/4-20X.88	
53	N.S.S.	2	O-RING	
54	N.S.S.	8	EXPANDER PLUG	
55	70020170	2	SOLENOID	
56	N.S.S.	4	CAPSCREW	
57	91514241	1	END CAP ASSY, (includes items 47, 58 & 59, one of items 23, 25, 26, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
58	N.S.S.	2	SPRING GUIDE	
59	N.S.S.	1	SPRING	
60	88411074	3	ROUND HD CARRIAGE BOLT, #3/8-16X4	
61	4761600	3	LOCKWASHER, 3/8	
62	88501006	3	HEX NUT, 3/8-16	
K1	91514220	6	VALVE SECTION SEAL KIT, (includes one of item 6 and three of item 7)	
K2	91514221	1	RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514226	2	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K4	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 and four of item 23)	

SECTION 12 - OPTIONS

FIGURE 12-30. MAIN CONTROL VALVE WITH TILT ON JOYSTICK (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



SECTION 12 - OPTIONS

**FIGURE 12-30. MAIN CONTROL VALVE WITH TILT ON JOYSTICK (Prior to SN 0160040675,
Excluding 0160040468 and 0160040672)**

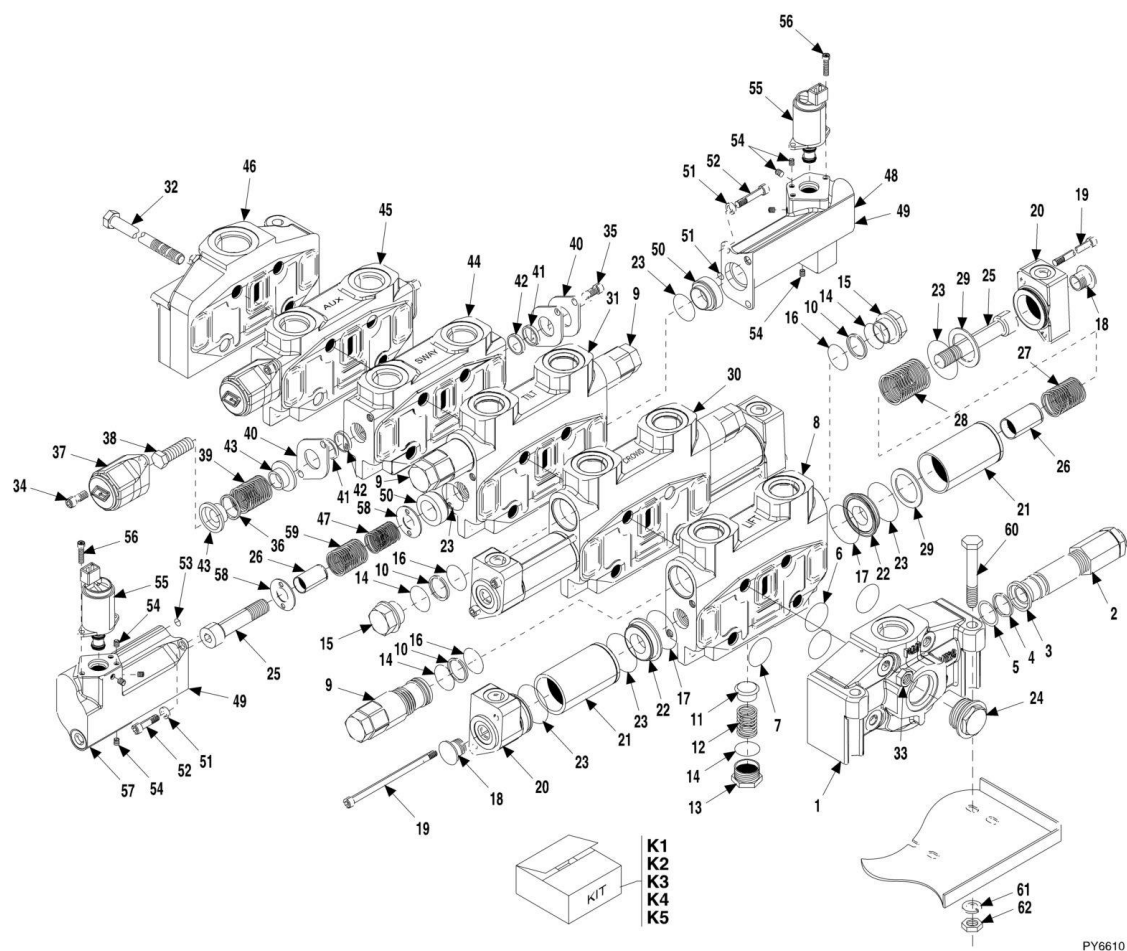
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513112	1	MAIN HYDRAULIC CONTROL VALVE, (includes items 1 thru 58)	A
1	91514228	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 and three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	5	O-RING	
7	Kit	15	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28 two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	4	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	4	TRANSITION CHECK POPPET	
12	N.S.S.	4	CHECK SPRING	
13	N.S.S.	4	CHECK CAP	
14	Kit	10	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	N.S.S.	8	HEX SOCKET CAPSCREW	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	10	SEAL	
24	91514233	1	PLUG	
25	N.S.S.	3	SHOULDER BOLT	
26	N.S.S.	3	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28 two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	91514239	1	VALVE SECTION ASSY, (tilt), (includes items 45 & 55, one of items 6 & 11 thru 14 two of items 9 & 41 and three of item 7)	
32	Kit	4	STUD ASSY, (includes item 33)	
33	Kit	4	HEX NUT	
34	N.S.S.	2	SCREW	
35	N.S.S.	2	SCREW	
36	N.S.S.	1	SPACER	
37	N.S.S.	1	VALVE CAP	
38	N.S.S.	1	STRIPPER BOLT	
39	N.S.S.	1	RETURN SPRING	
39	N.S.S.	3	RETAINING PLATE	
41	Kit	4	BACK-UP RING, (teflon)	
42	Kit	2	QUAD SEAL	
43	N.S.S.	2	SPRING GUIDE	

SECTION 12 - OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	91514236	1	VALVE SECTION ASSY, (sway), (includes items 34 thru 40 & 43, one of items 6 & 11 thru 14 two of item 41 and three of item 7)	
45	91514237	1	OUTLET COVER ASSY	
46	91514240	1	END CAP SUB ASSY, (includes one of items 23, 47, 48, 51 & 53, two of items 49, 50 & 54 and four of item 52)	
47	N.S.S.	2	END CAP	
48	N.S.S.	2	RETAINER SEAL	
49	N.S.S.	4	LOCKWASHER	
50	N.S.S.	4	CAPSCREW, 1/4-20X0.88	
51	N.S.S.	2	O-RING	
52	N.S.S.	8	EXPANDER PLUG	
53	70020170	2	SOLENOID	
54	N.S.S.	4	CAPSCREW	
55	91514241	1	END CAP SUB ASSY, (includes items 56, 57 & 58, one of items 23, 25, 26, 47, 48, 51, & 53, two of items 49, 50, & 54 and four of item 52)	
56	N.S.S.	2	SPRING GUIDE	
57	N.S.S.	1	SPRING	
58	N.S.S.	1	SPRING	
59	88411074	3	ROUND HD CARRIAGE BOLT, 3/8-16X4	
60	88551011	3	LOCKWASHER, 3/8	
61	88501006	3	HEX NUT, 3/8-16	
K1	91514220	5	VALVE SECTION SEAL KIT, (includes one of item 6 and three of item 7)	
K2	91514221	1	MAIN RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514250	1	STUD KIT, (includes items 32 & 33)	
K4	91514226	1	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K5	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 and four of item 23)	

SECTION 12 - OPTIONS

FIGURE 12-31. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS AND TILT ON JOYSTICK
(Prior to SN 0160037671)



SECTION 12 - OPTIONS

**FIGURE 12-31. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS AND TILT ON JOYSTICK
(Prior to SN 0160037671)**

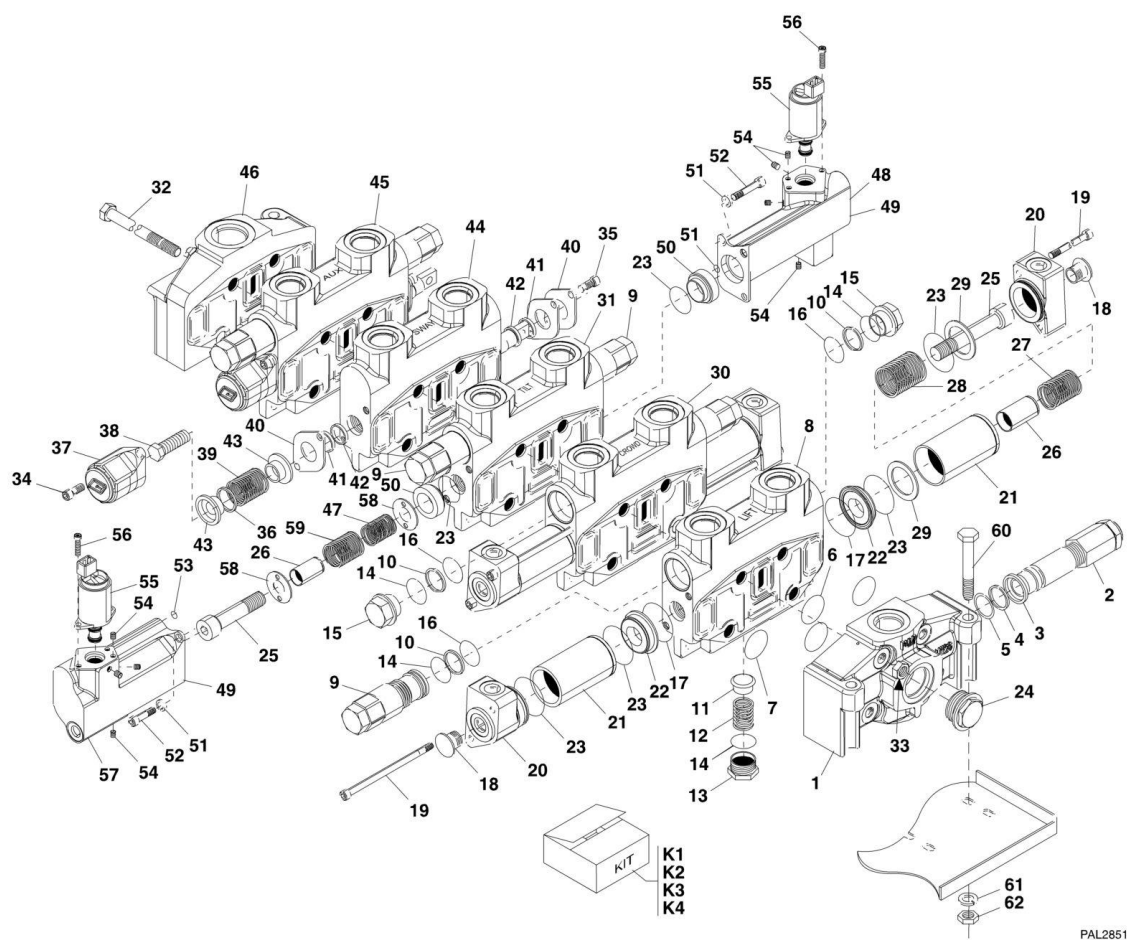
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513113	1	MAIN HYDRAULIC CONTROL VALVE, (includes items 1 thru 59)	B
1	91514228	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 & three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	6	O-RING	
7	Kit	18	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	4	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	5	TRANSITION CHECK POPPET	
12	N.S.S.	5	CHECK SPRING	
13	N.S.S.	5	CHECK CAP	
14	Kit	11	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	N.S.S.	8	HEX SOCKET CAPSCREW	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	10	SEAL	
24	91514233	1	PLUG	
25	N.S.S.	3	SHOULDER BOLT	
26	N.S.S.	3	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	91514239	1	VALVE SECTION ASSY, (tilt), (includes items 41, 48 & 57, one of items 6 & 11 thru 14, two of item 9 & three of item 7)	
32	Kit	4	STUD ASSY, (includes item 33)	
33	Kit	4	HEX NUT	
34	N.S.S.	4	SCREW	
35	N.S.S.	4	SCREW	
36	N.S.S.	1	SPACER	
37	N.S.S.	2	VALVE CAP	
38	N.S.S.	2	STRIPPER BOLT	
39	N.S.S.	2	RETURN SPRING	
40	N.S.S.	6	RETAINING PLATE	
41	Kit	6	BACK-UP RING, (teflon)	
42	Kit	4	QUAD SEAL	
43	N.S.S.	4	SPRING GUIDE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	91514236	1	VALVE SECTION ASSY, (sway), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
45	91514238	1	VALVE SECTION ASSY, (aux), (includes one of items 6, 11 thru 14 & 37 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
46	91514237	1	OUTLET COVER ASSY	
47	N.S.S.	1	SPRING	
48	91514240	1	END CAP ASSY, (includes one of items 23, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
49	N.S.S.	2	END CAP	
50	N.S.S.	2	RETAINER SEAL	
51	N.S.S.	4	LOCKWASHER	
52	N.S.S.	4	CAPSCREW, 1/4-20X0.88	
53	N.S.S.	2	O-RING	
54	N.S.S.	8	EXPANDER PLUG	
55	N.S.S.	2	SOLENOID	
56	N.S.S.	4	CAPSCREW	
57	91514241	1	END CAP ASSY, (includes items 47, 58 & 59, one of items 23, 25, 26, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
58	N.S.S.	2	SPRING GUIDE	
59	N.S.S.	1	SPRING	
60	88411074	3	ROUND HD CARRIAGE BOLT, 3/8-16X4	
61	88551011	3	LOCKWASHER, 3/8	
62	88501006	3	HEX NUT, 3/8-16	
K1	91514220	6	VALVE SECTION SEAL KIT, (includes one of item 6 & three of item 7)	
K2	91514221	1	RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514247	1	STUD KIT, (includes items 32 & 33)	
K4	91514226	2	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K5	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 & four of item 23)	

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FIGURE 12-32. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS AND TILT ON JOYSTICK (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)



SECTION 12 - OPTIONS

FIGURE 12-32. MAIN CONTROL VALVE WITH AUXILIARY HYDRAULICS AND TILT ON JOYSTICK (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)

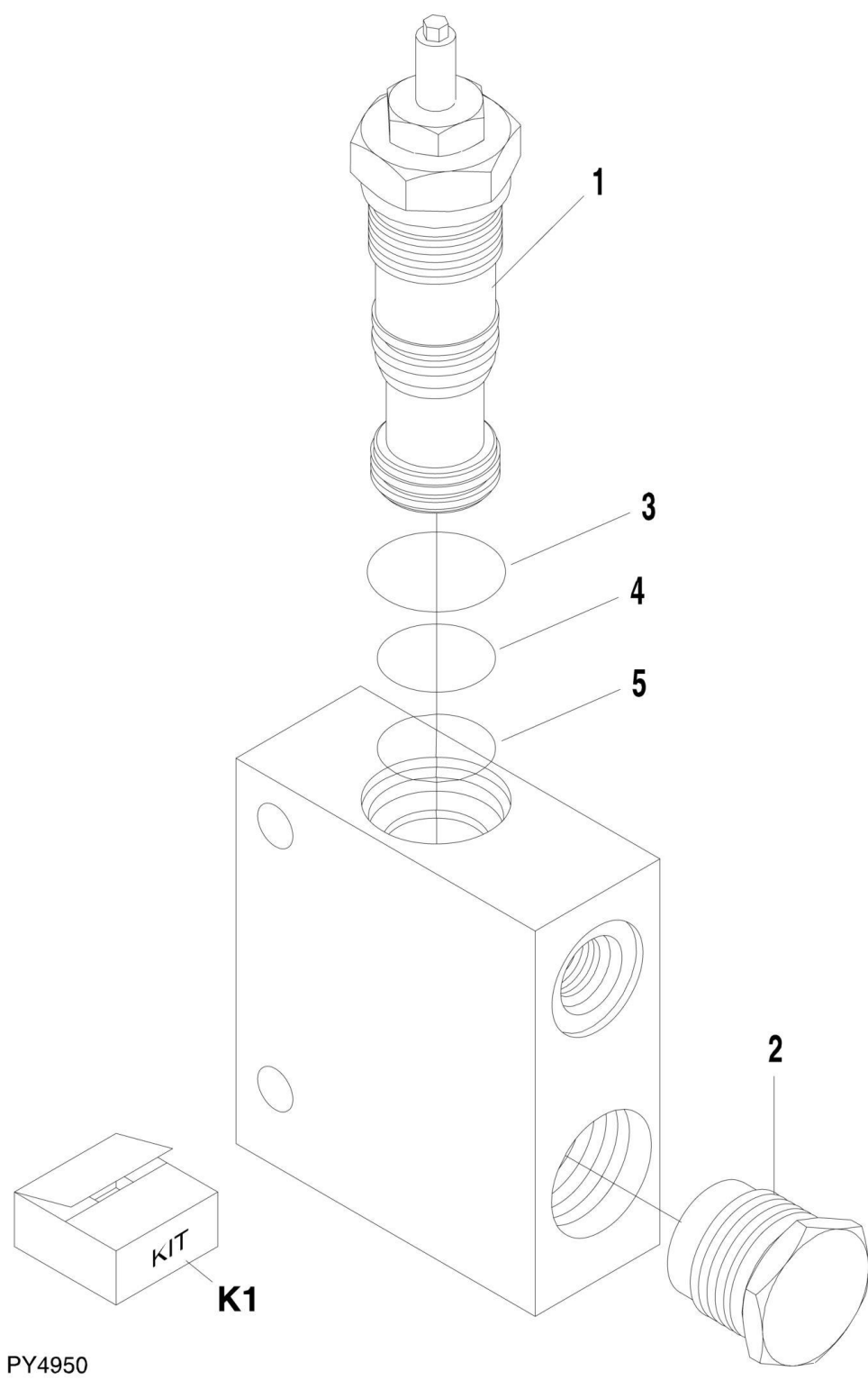
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001033	1	MAIN HYDRAULIC CONTROL VALVE, (includes items 1 thru 59)	C
1	7029963	1	INLET COVER ASSEMBLY, (includes items 2 & 24, one of item 6 & three of item 7)	
2	91514229	1	MAIN RELIEF VALVE, (includes items 3, 4 & 5)	
3	Kit	1	GASKET WASHER	
4	Kit	1	O-RING	
5	Kit	1	BACK-UP RING	
6	Kit	6	O-RING	
7	Kit	18	O-RING	
8	91514230	1	VALVE SECTION ASSY, (lift), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
9	91514222	6	PORT RELIEF VALVE, (includes one of items 10, 14 & 16)	
10	N.S.S.	6	BACK-UP RING	
11	N.S.S.	5	TRANSITION CHECK POPPET	
12	N.S.S.	5	CHECK SPRING	
13	N.S.S.	5	CHECK CAP	
14	Kit	11	O-RING	
15	91514232	2	PORT PLUG, (includes one of items 10, 14 & 16)	
16	N.S.S.	6	O-RING	
17	Kit	4	SEAL	
18	N.S.S.	4	PLUG	
19	N.S.S.	8	HEX SOCKET CAPSCREW	
20	N.S.S.	4	VALVE CAP	
21	N.S.S.	4	END CAP TUBE	
22	N.S.S.	4	TUBE	
23	Kit	10	SEAL	
24	N.S.S.	1	PLUG	
25	N.S.S.	3	SHOULDER BOLT	
26	N.S.S.	3	STOP TUBE	
27	N.S.S.	2	INNER SPRING	
28	N.S.S.	2	OUTER SPRING	
29	N.S.S.	4	WASHER	
30	91514234	1	VALVE SECTION ASSY, (crowd), (includes one of items 6, 9, 11 thru 15 & 25 thru 28, two of items 17, 18, 20, 21, 22 & 29, three of item 7 and four of items 19 & 23)	
31	91514239	1	VALVE SECTION ASSY, (tilt), (includes items 41, 48 & 57, one of items 6 & 11 thru 14, two of item 9 and three of item 7)	
32	7029966	4	STUD ASSY, (includes item 33)	
33	N.S.S.	4	HEX NUT	
34	N.S.S.	4	SCREW	
35	N.S.S.	4	SCREW	
36	N.S.S.	1	SPACER	
37	N.S.S.	2	VALVE CAP	
38	N.S.S.	2	STRIPPER BOLT	
39	N.S.S.	2	RETURN SPRING	
40	N.S.S.	6	RETAINING PLATE	
41	Kit	6	BACK-UP RING, (teflon)	
42	Kit	4	QUAD SEAL	
43	N.S.S.	4	SPRING GUIDE	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	7029964	1	VALVE SECTION ASSY, (sway), (includes one of items 6, 11 thru 14 & 36 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
45	7029965	1	VALVE SECTION ASSY, (aux), (includes one of items 6, 11 thru 14 & 37 thru 39, two of items 34, 35, 41, 42 & 43 and three of items 7 & 40)	
46	91514237	1	OUTLET COVER ASSY	
47	N.S.S.	1	SPRING	
48	91514240	1	END CAP ASSY, (includes one of items 23, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
49	N.S.S.	2	END CAP	
50	N.S.S.	2	RETAINER SEAL	
51	N.S.S.	4	LOCKWASHER	
52	N.S.S.	4	CAPSCREW, 1/4-20X.88	
53	N.S.S.	2	O-RING	
54	N.S.S.	8	EXPANDER PLUG	
55	70020170	2	SOLENOID	
56	N.S.S.	4	CAPSCREW	
57	91514241	1	END CAP ASSY, (includes items 47, 58 & 59, one of items 23, 25, 26, 49, 50, 53 & 55, two of items 51, 52 & 56 and four of item 54)	
58	N.S.S.	2	SPRING GUIDE	
59	N.S.S.	1	SPRING	
60	88411074	3	ROUND HD CARRIAGE BOLT, #3/8-16X4	
61	4761600	3	LOCKWASHER, 3/8	
62	88501006	3	HEX NUT, 3/8-16	
K1	91514220	6	VALVE SECTION SEAL KIT, (includes one of item 6 & three of item 7)	
K2	91514221	1	RELIEF SEAL KIT, (includes items 3, 4 & 5)	
K3	91514226	2	SPOOL SEAL KIT, (includes one of items 6 & 14, two of items 41 & 42 and three of item 7)	
K4	91514227	2	REMOTE SEAL KIT, (includes one of items 6 & 14, two of item 17, three of item 7 and four of item 23)	

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FIGURE 12-33. TRUSS BOOM PRESSURE VALVE - 1200 PSI



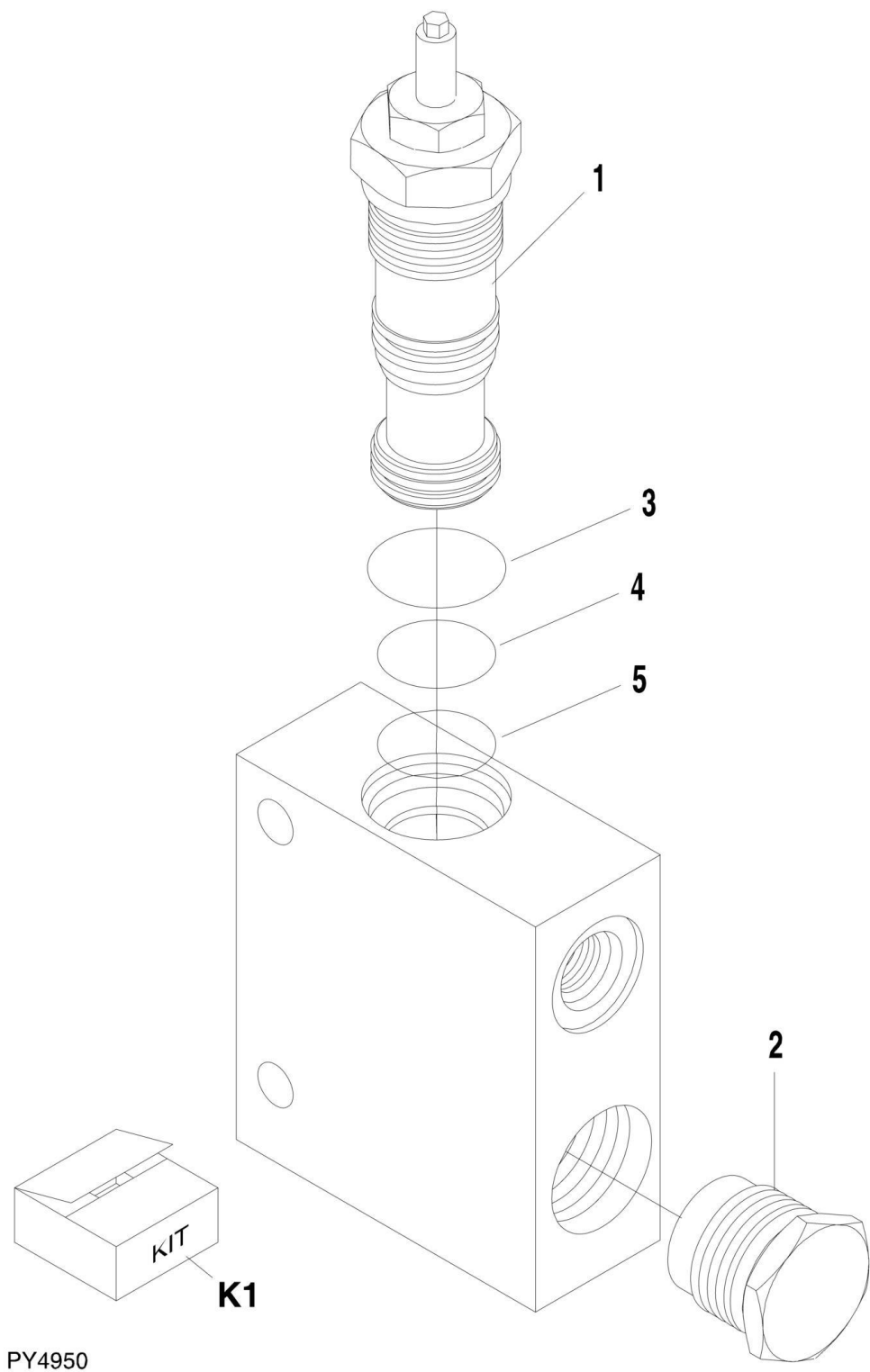
SECTION 12 - OPTIONS

FIGURE 12-33. TRUSS BOOM PRESSURE VALVE - 1200 PSI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91413041	1	TRUSS BOOM PRESSURE REDUCER VALVE, 1200PSI, (includes all items)	
1	91414046	1	PRESSURE REDUCING CARTRIDGE	
2	91414047	1	CHECK CARTRIDGE	
3	Kit	1	O-RING	
4	Kit	1	O-RING	
5	Kit	1	O-RING	
K1	91414045	1	SEAL KIT, (includes items 3, 4 & 5)	

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FIGURE 12-34. TRUSS BOOM PRESSURE VALVE - 1360 PSI



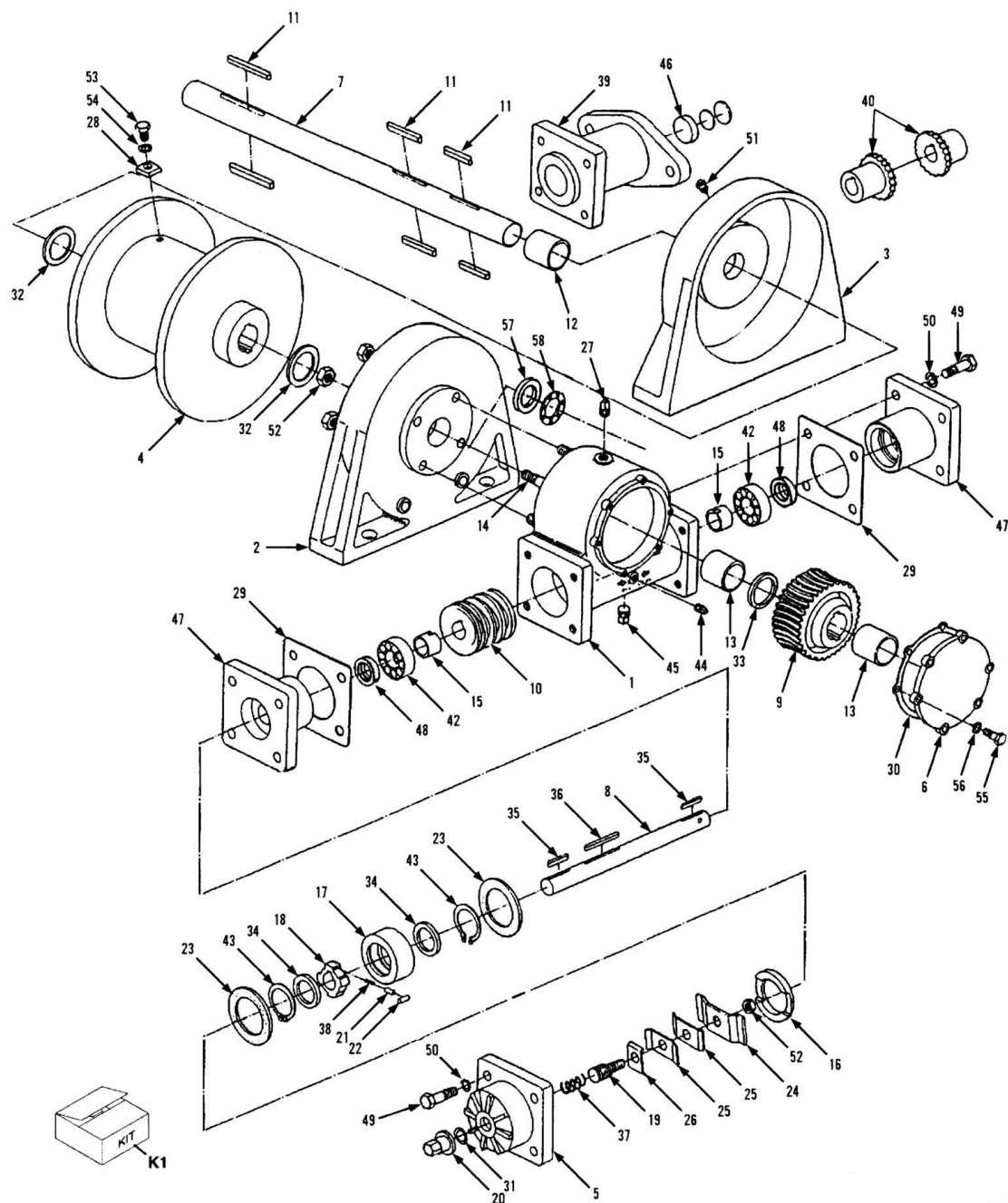
SECTION 12 - OPTIONS

FIGURE 12-34. TRUSS BOOM PRESSURE VALVE - 1360 PSI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91413040	1	TRUSS BOOM PRESSURE REDUCER VALVE, 1360PSI, (includes all items)	
1	91414048	1	PRESSURE REDUCING CARTRIDGE	
2	91414047	1	CHECK CARTRIDGE	
3	Kit	1	O-RING	
4	Kit	1	O-RING	
5	Kit	1	O-RING	
K1	91414045	1	SEAL KIT, (includes items 3, 4 & 5)	

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FIGURE 12-35. TRUSS BOOM WINCH



PY5560

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FIGURE 12-35. TRUSS BOOM WINCH

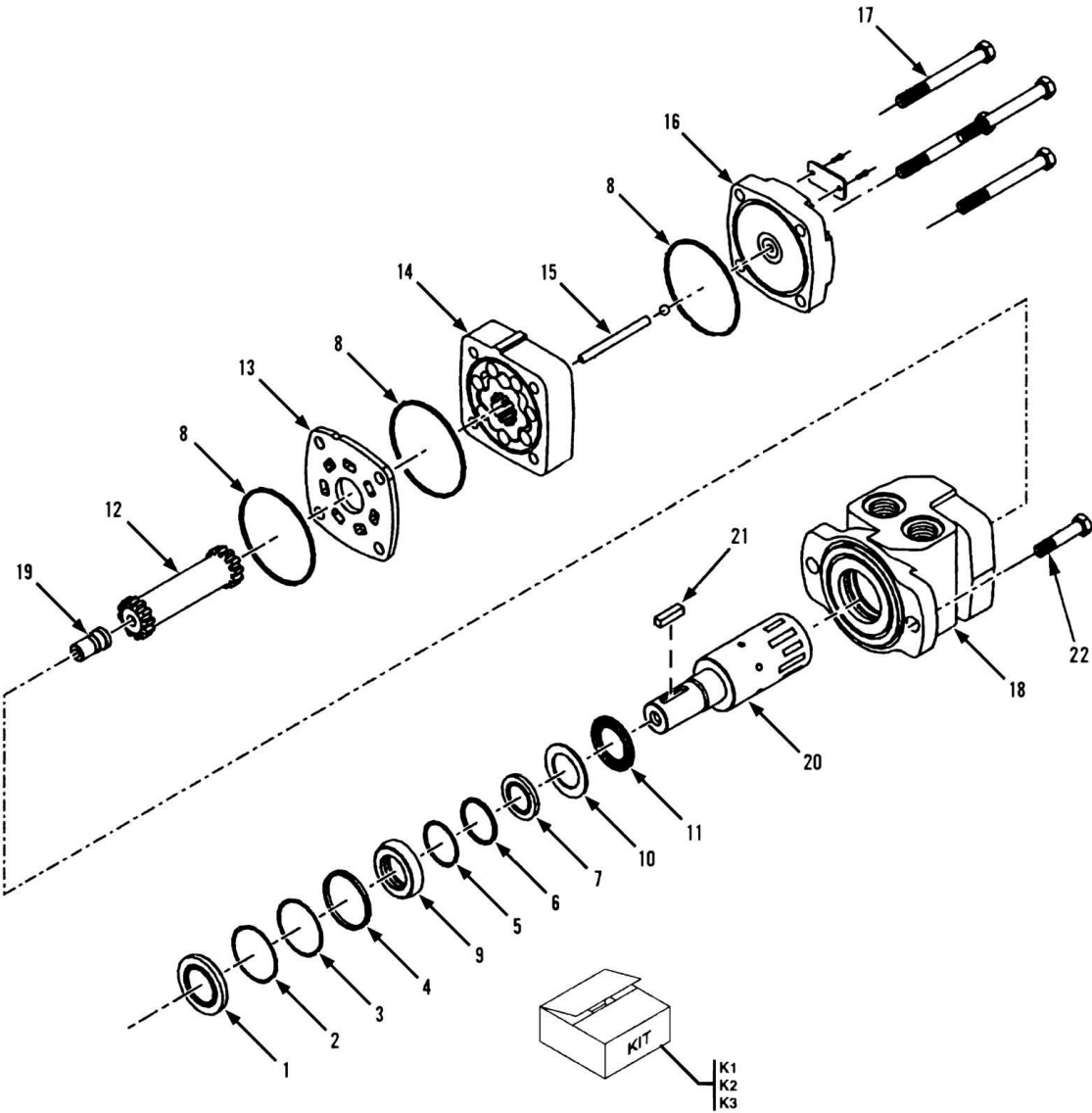
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91413160	1	WINCH, 5IN DRUM, (includes all items on this page and on WINCH MOTOR)	B
	91413159	NLA	WINCH, 8IN DRUM, (no longer available, use 1001114795 on WINCH for replacement), (includes all items on this page and on WINCH MOTOR)	B
1	91404383	1	GEAR CASE	
2	N.S.S.	1	LOCK SET A	
3	91404385	1	LOCK SET B	
4	91404386	1	CABLE DRUM, 5IN	
4	91404432	1	CABLE DRUM, 8IN	
5	Kit	1	BRAKE DRUM	
6	91404388	1	GEAR CASE COVER	
7	90208148	1	CABLE DRUM SHAFT, 5IN	
7	91404433	1	CABLE DRUM SHAFT, 8IN	
8	91404389	1	WORM SHAFT, (includes item 10)	
9	N.S.S.	1	WORM GEAR	
10	N.S.S.	1	WORM	
11	91404392	6	CABLE DRUM SHAFT KEY	
12	N.S.S.	1	LOCK SEAT A BUSHING	
13	91404394	2	BUSHING	
14	91404395	4	STUD BOLT, 1/2X1-1/2	
15	91404396	2	COLLAR	
16	Kit	1	BRAKE PLATE	
17	Kit	1	BRAKE HOUSING	
18	Kit	1	BRAKE DRUM	
19	Kit	1	ADJUSTING BOLT	
20	Kit	1	ADJUSTING NUT	
21	Kit	1	SPRING SEAT	
22	Kit	1	ROLLER	
23	Kit	2	BRAKE LINING	
24	Kit	1	BRAKE PLATE A	
25	Kit	2	BRAKE PLATE B	
26	Kit	1	FIXING PLATE	
27	N.S.S.	1	OIL FILL PLUG	
28	N.S.S.	1	BEARING SHIM	
29	91404408	2	BEARING HUB GASKET	
30	91404409	1	GEAR CASE GASKET	
31	Kit	1	O-RING	
32	91404411	2	WASHER	
33	91404412	1	BUSHING	
34	Kit	2	SEAL	
35	91404413	2	WORM SHAFT KEY	
36	N.S.S.	1	WORM SHAFT KEY	
37	Kit	1	SPRING	
38	Kit	1	BRAKE DRUM SPRING	
39	N.S.S.	1	MOTOR MOUNT ADAPTER	
40	90208181	1	COUPLER	
42	91404416	2	BEARING	
43	Kit	2	V.C. TYPE LOCK RING	
44	91404418	1	OIL LEVEL PLUG	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	91404419	1	OIL DRAIN PLUG	
46	N.S.S.	1	COUPLER SPACER	
47	91404420	2	BEARING HUB	
48	91404421	2	OIL SEAL	
49	Kit	8	CAPSCREW, 3/8X1-1/2	
50	Kit	8	LOCKWASHER	
51	N.S.S.	1	GREASE FITTING	
52	Kit	5	NUT	
53	91404426	1	HEX HD CAPSCREW, 3/8X1	
54	N.S.S.	1	LOCKWASHER	
55	N.S.S.	1	HEX HD CAPSCREW, 3/8X1	
56	Kit	1	BRAKE COVER GASKET	
57	91404430	1	OIL SEAL	
58	N.S.S.	1	LOCK SEAT GASKET	
K1	70020227	1	BRAKE LINING ASSY, (includes items 5, 16 thru 26, 31, 34, 37, 38, 43, 49, 50, 52 & 56)	

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FIGURE 12-36. WINCH MOTOR



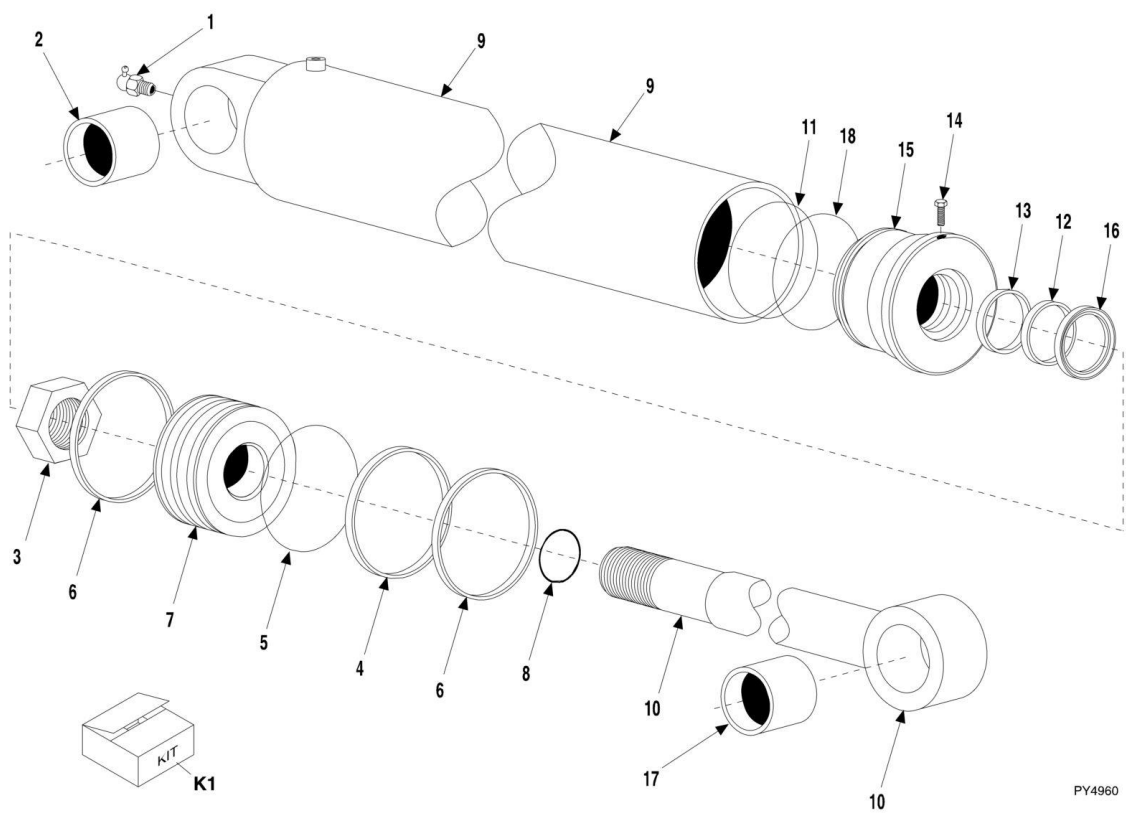
PY5130

FIGURE 12-36. WINCH MOTOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91413039	1	WINCH MOTOR, (includes all items)	C
1	91414051	1	DUST SEAL	
2	Kit	1	SPLIT WIRE RING	
3	Kit	1	METAL BACK-UP SHIM	
4	Kit	1	HIGH PRESSURE SEAL	
5	Kit	1	METAL BACK-UP SHIM	
6	Kit	1	TEFLON BACK-UP SHIM	
7	Kit	1	SHAFT SEAL	
8	Kit	3	BODY SEAL	
9	Kit	1	SEAL CARRIER	
10	Kit	1	THRUST WASHER	
11	91414053	1	THRUST BEARRING	
12	91414054	1	DRIVE LINK	
13	91414055	1	MID MOUNT WEAR PLATE	
14	91414056	1	ROTOR KIT	
15	91414057	1	DRIVE LINK PIN	
16	91414058	1	END COVER	
17	91414059	1	BOLT SET	
18	91414060	1	HOUSING	
19	91414061	1	COOLING PLUG	
20	91414062	1	SHAFT, (includes item 21)	
21	91414063	1	KEY	
22	88201024	2	HEX HD CAPSCREW, 5/16-18X2, GR5	
K1	91414049	1	SEAL KIT, (includes items 1 thru 8)	
K2	91414050	1	SEAL KIT, (includes items 9 & 10)	
K3	90208212	1	SEAL KIT, (includes items 1 thru 10)	

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FIGURE 12-37. SWING CYLINDER



PY4960

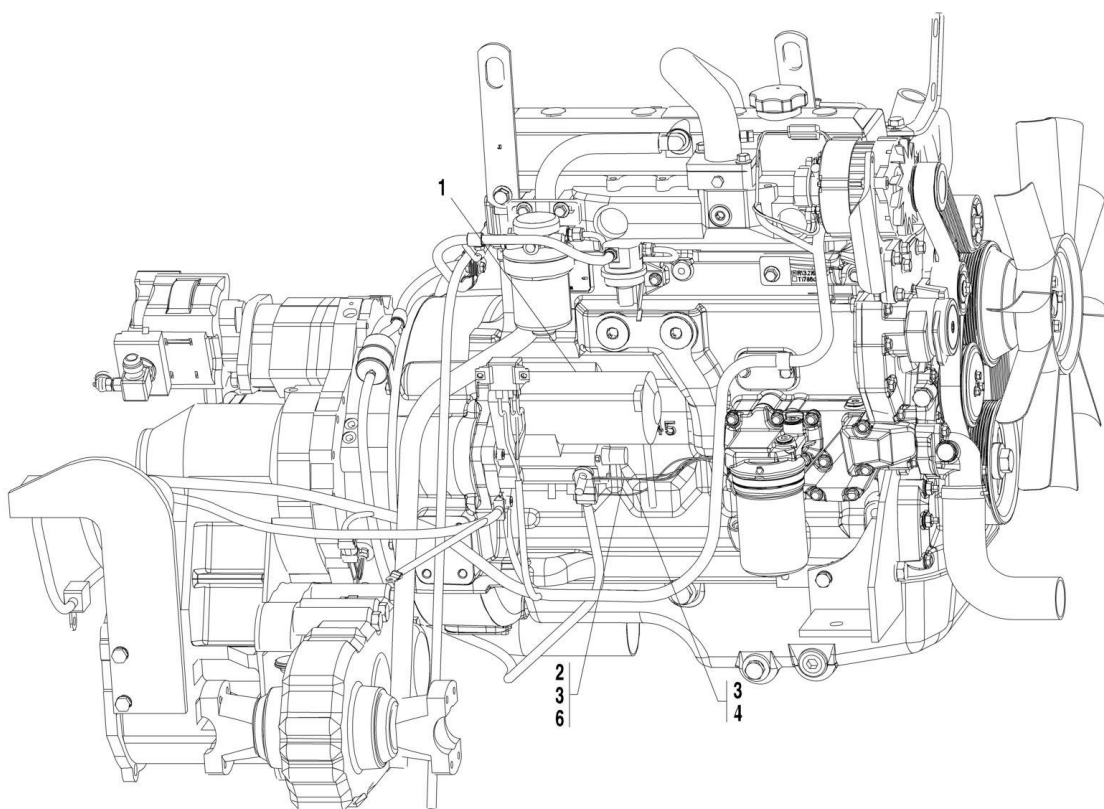
SECTION 12 - OPTIONS

FIGURE 12-37. SWING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	90453034	1	SWING CYLINDER, (includes all items)	C
1	91144125	1	GREASE FITTING	
2	91034157	1	BUSHING	
3	91144038	1	LOCKNUT	
4	Kit	1	PISTON SEAL	
5	Kit	1	O-RING	
6	Kit	2	WEAR RING	
7	91144039	1	PISTON	
8	Kit	1	O-RING	
9	91034435	1	BARREL	
10	91034436	1	PISTON ROD	
11	Kit	1	BACK-UP RING	
12	Kit	1	U-CUP	
13	Kit	1	STEP SEAL	
14	91124096	1	SELF TAPING SCREW	
15	91144040	1	CYLINDER HEAD	
16	Kit	1	WIPER	
17	91124087	1	BUSHING	
18	Kit	1	O-RING	
K1	91144006	1	SEAL KIT, (includes items 4 thru 6, 8, 11 thru 13, 16 & 18)	

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FIGURE 12-38. STARTER KIT (SN 0193001 through 0193007, SN 0160000008 through 0160006660, Excluding 0160006594, 0160006599 and 0160006621)



NOTE: LEECE-NEVILLE & PRESTOLITE STARTERS NO LONGER AVAILABLE, ORDER DENSO STARTER KIT FOR REPLACEMENT

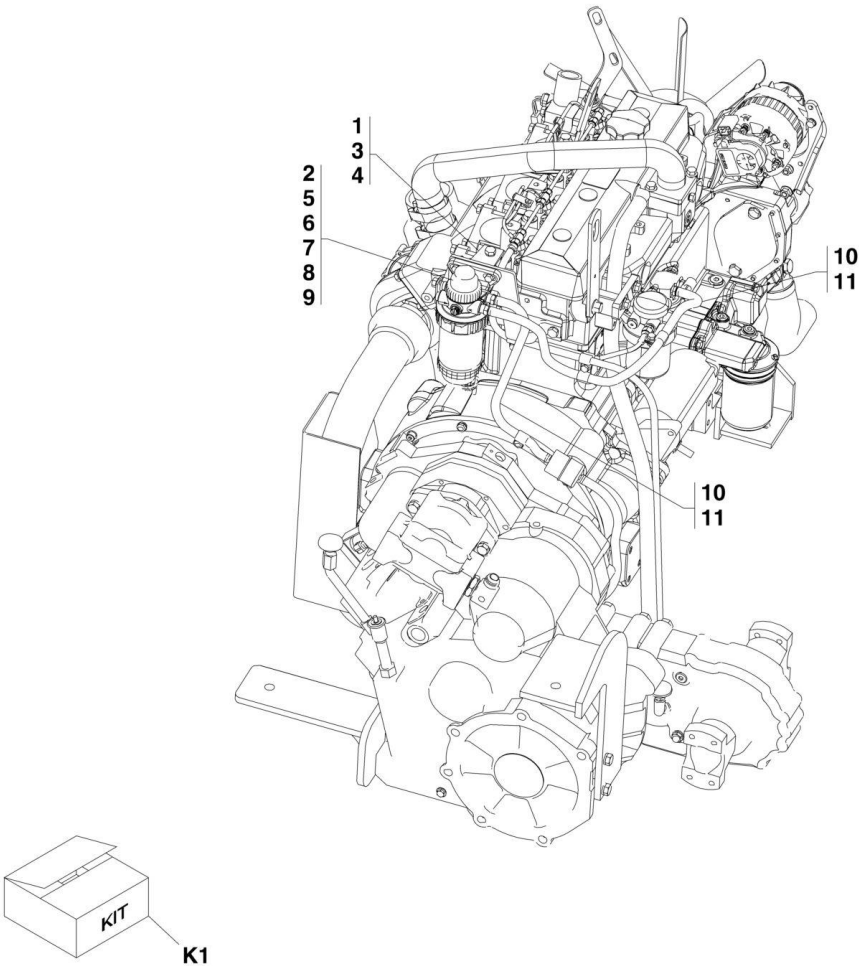
SECTION 12 - OPTIONS

**FIGURE 12-38. STARTER KIT (SN 0193001 through 0193007, SN 0160000008 through 0160006660,
Excluding 0160006594, 0160006599 and 0160006621)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91415083	1	STARTER KIT, (includes all items)	A
1	7026921	1	STARTER, (DENSO)	
2	91413148	1	JUMPER WIRES	
3	83681905	12 in	HEAT SHRINK INSULATION	
4	91413149	1	JUMPER WIRE	
6	71492134	12 in	SPLIT LOOM	

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FIGURE 12-39. FUEL/WATER SEPARATOR INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



PAP11450

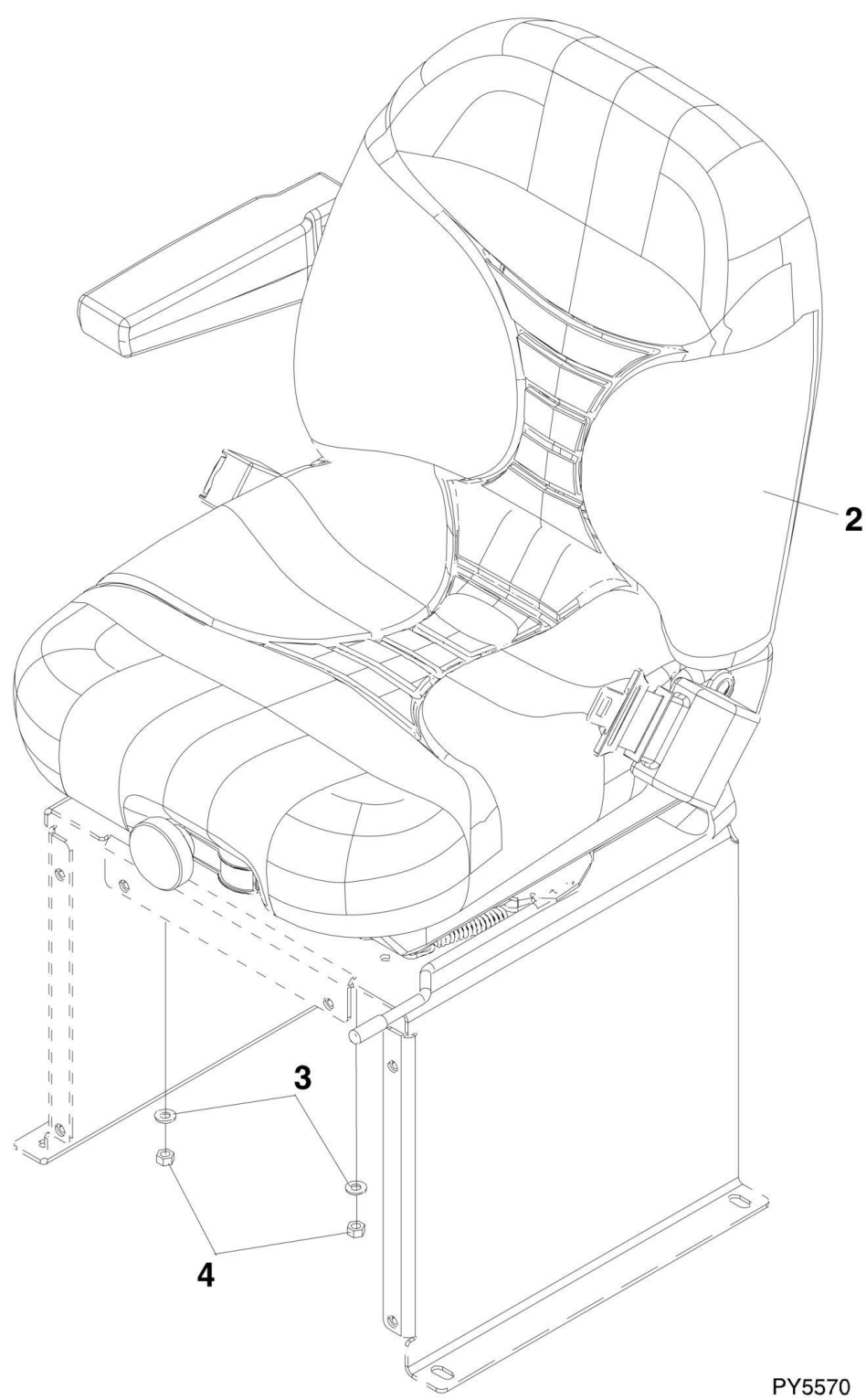
SECTION 12 - OPTIONS

FIGURE 12-39. FUEL/WATER SEPARATOR INSTALLATION - JOHN DEERE ENGINE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91475107	Ref	FUEL/WATER SEPARATOR INSTALLATION, (not available to order, see items 1 thru 11 for service)	B
1	91471242	1	FILTER BRACKET	
2	91473240	1	FUEL/WATER SEPARATOR	
2	91474633	1	FUEL/WATER SEPARATOR ELEMENT	
2	91474634	1	WATER COLLECTION BOWL	
2	91474635	1	REVERSE FLOW HAND PRIMER	
3	4832000	2	LOCKWASHER, 10mm	
4	0761012	2	HEX HD CAPSCREW, M10X1.5X25, GR5	
5	4761500	2	LOCKWASHER, 5/16	
6	3311501	2	HEX NUT, 5/16-18	
7	0641510	2	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
8	2200233	2	SOCKET HD PIPE PLUG, (ports 1 & 2)	
9	2221114	2	BARBED FITTING, (ports 3 & 4)	
10	1320022	4	HOSE CLAMP	
11	2750532	3.83 ft	FUEL LINE, 3/8	
K1	2915111	1	FUEL/WATER SEPARATOR SERVICE KIT, (includes items 1 thru 11)	

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FIGURE 12-40. STANDARD SEAT REPLACEMENT KIT



PY5570

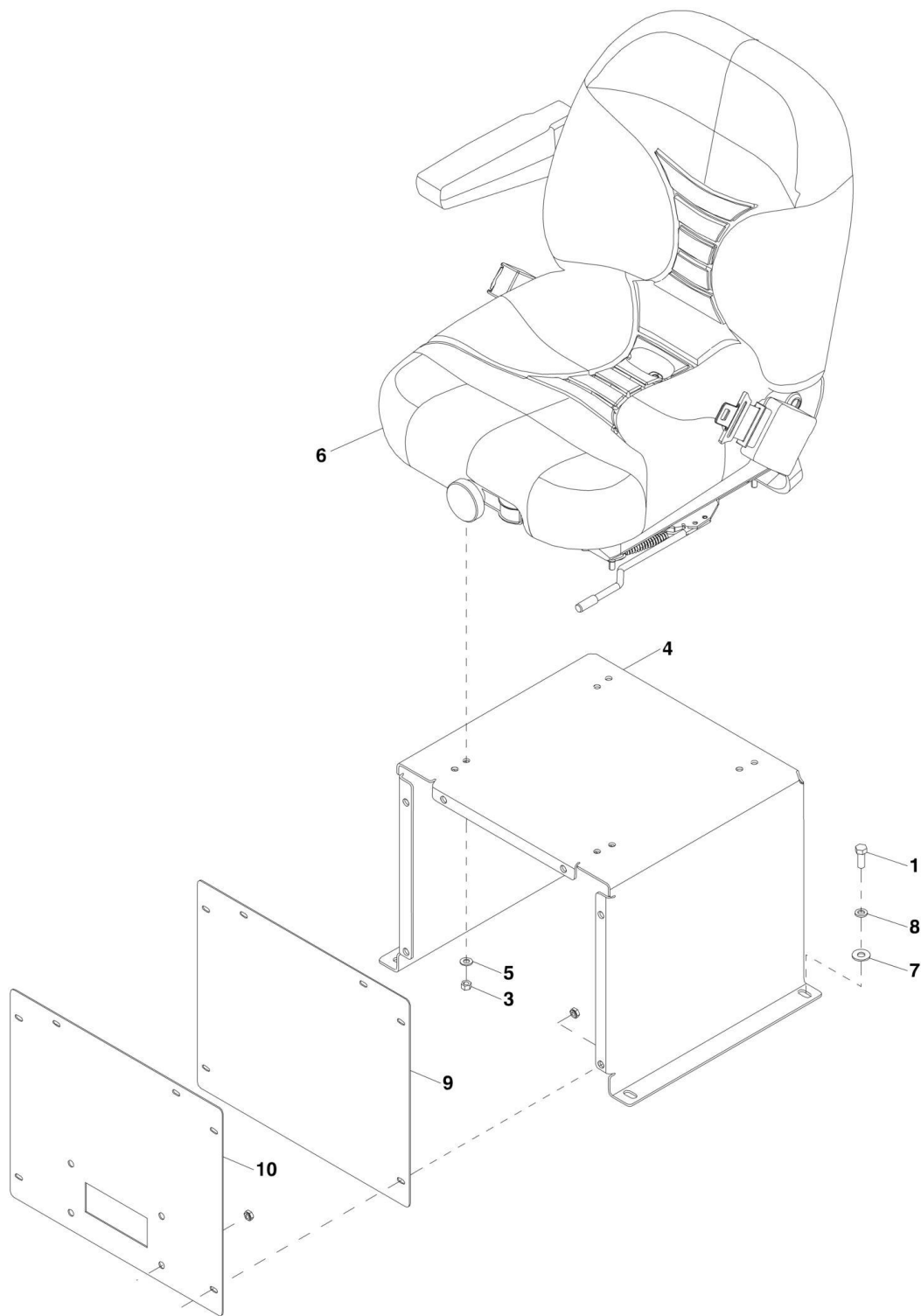
SECTION 12 - OPTIONS

FIGURE 12-40. STANDARD SEAT REPLACEMENT KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	2915166	1	STANDARD SEAT REPLACEMENT KIT, (includes all items)	A
	91563158	1	SUSPENSION SEAT WITH 2IN SEAT BELT, (See Separate Breakdown in CAB Section)	
3	4711500	4	PLAIN WASHER, 5/16	
4	3311505	4	HEX LOCKNUT, 5/16-18	

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FIGURE 12-41. HEAVY DUTY SEAT REPLACEMENT KIT



PAP11300

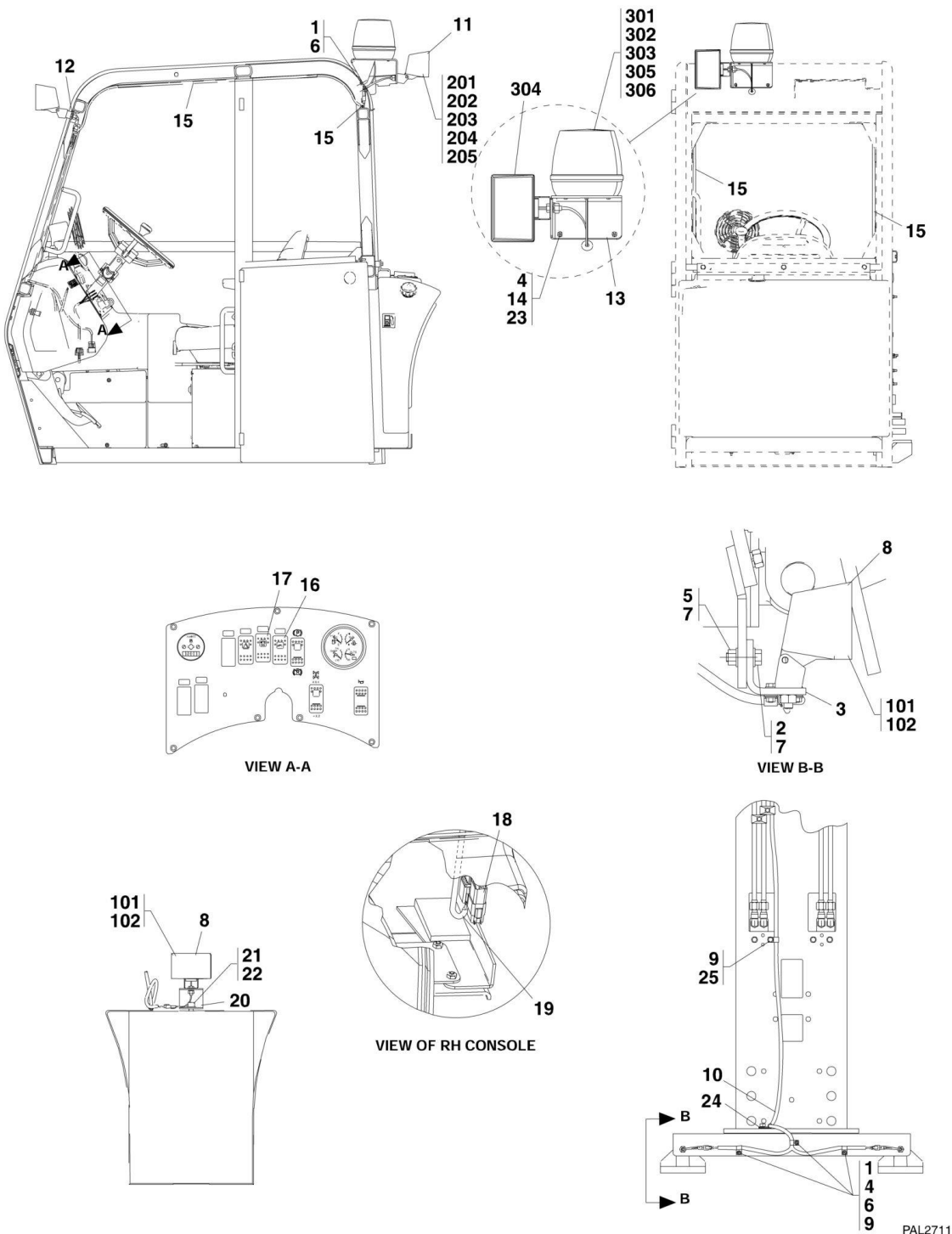
SECTION 12 - OPTIONS

FIGURE 12-41. HEAVY DUTY SEAT REPLACEMENT KIT

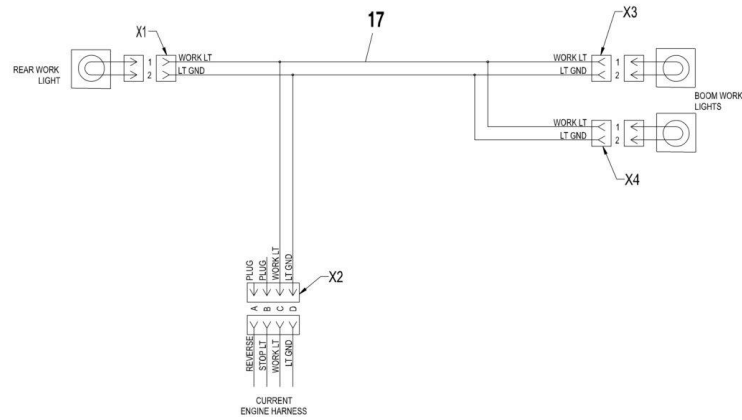
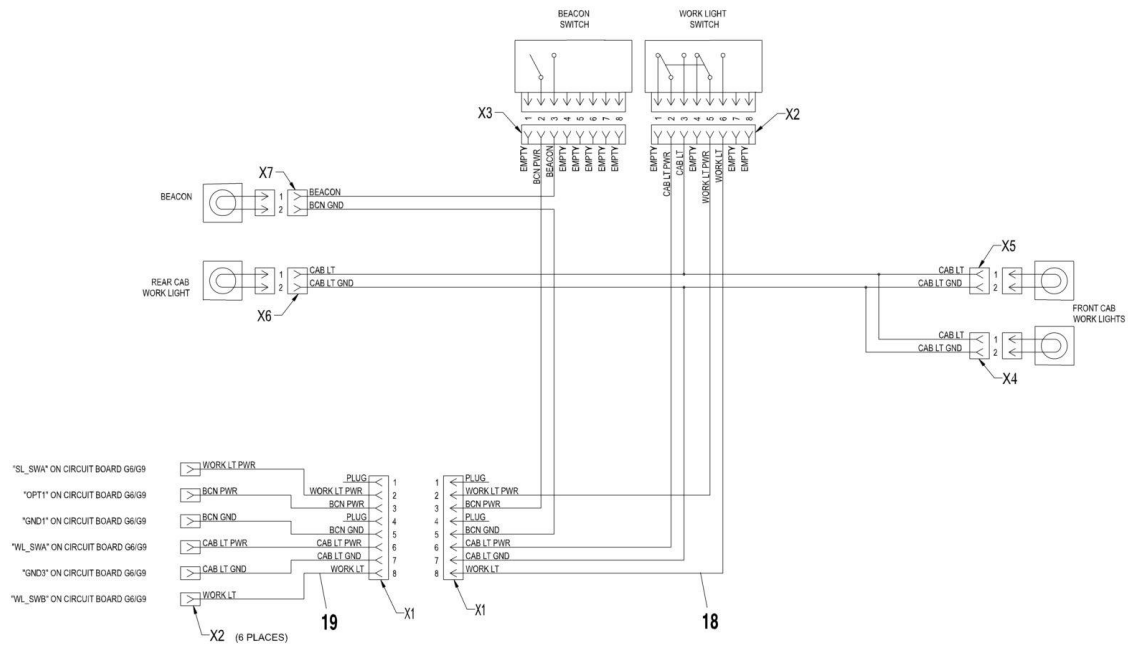
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2915167	1	HEAVY DUTY SEAT REPLACEMENT KIT, (includes all items)	B
1	0641608	4	HEX HD CAP SCREW, 3/8-16	
3	3311505	4	LOCK NUT, 5/16-18	
4	91406115	1	SEAT RISER WELDMENT	
5	4711500	4	PLAIN WASHER, 5/16	
6	91563158	1	SUSPENSION SEAT WITH 2IN SEAT BELT, (See Separate Breakdown in CAB Section)	
7	4751600	4	WASHER, 3/8	
8	4761600	4	LOCKWASHER, 3/8	
9	91401415	1	ACCESS COVER PLATE	
10	91406113	1	ACCESS, BEZEL COVER	

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FIGURE 12-42. WORK LIGHT INSTALLATION (Prior to SN 0160030299)



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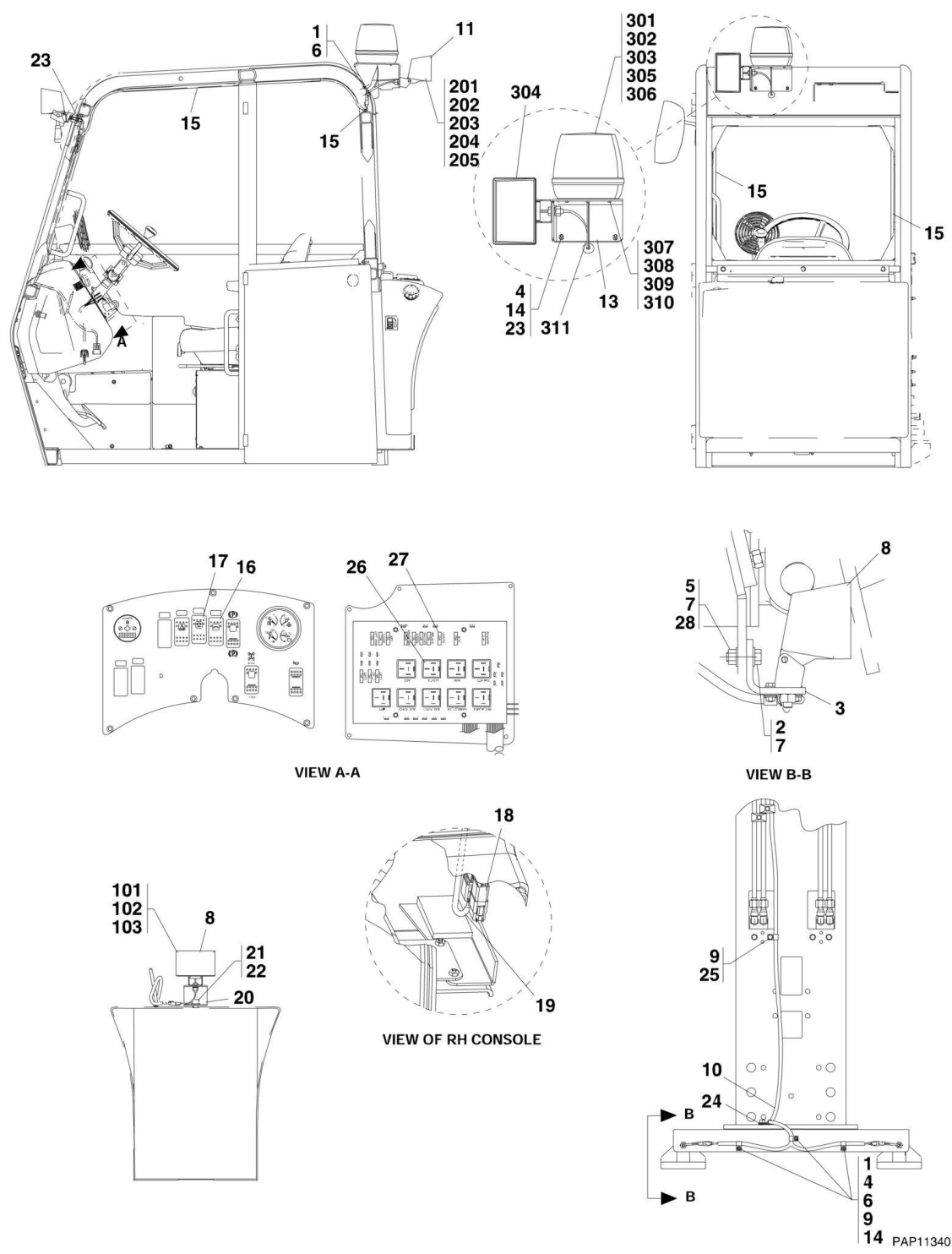
SECTION 12 - OPTIONS

FIGURE 12-42. WORK LIGHT INSTALLATION (Prior to SN 0160030299)

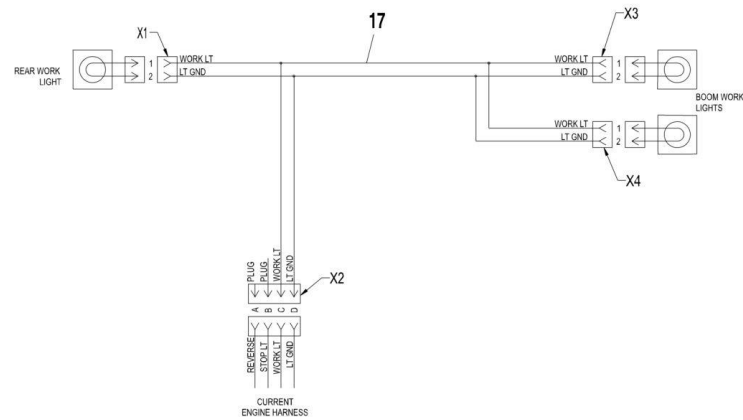
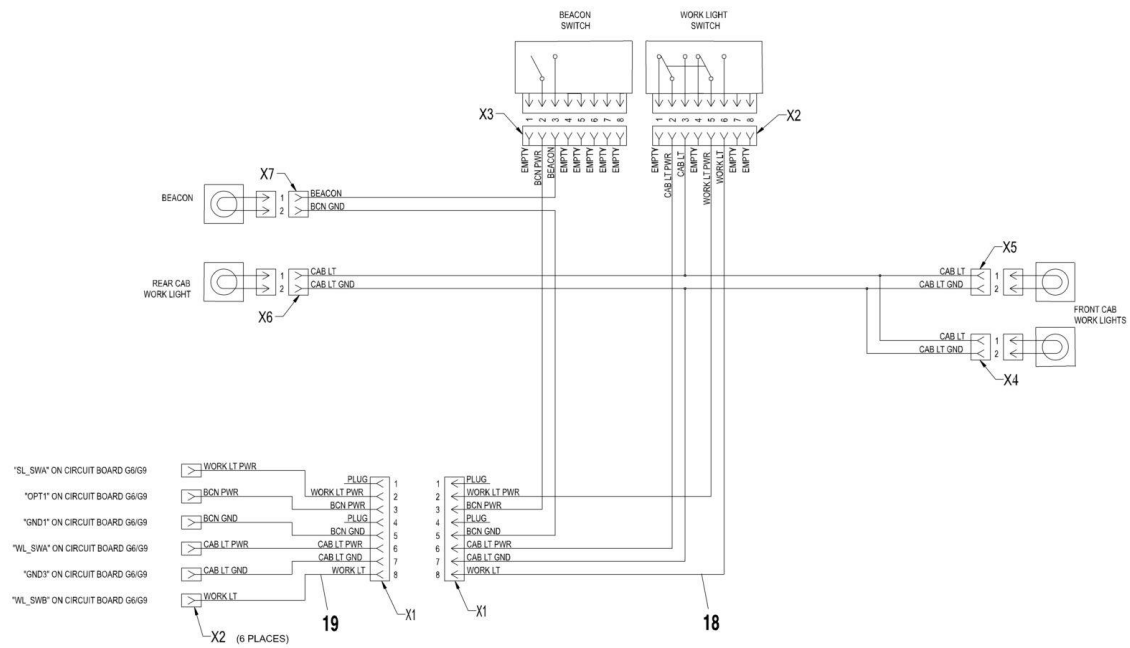
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090468	Ref	WORK LIGHTS INSTALLATION, (not available to order, see items 1 thru 25 for service)	B
1	0641407	5	HEX HD CAPSCREW, 1/4-20X7/8, GR5	
2	0641815	2	HEX HD CAPSCREW, 1/2-13X1-7/8, GR5	
3	0903661	1	BOOM LIGHT MOUNTING BRACKET	
4	3311401	5	HEX NUT, 1/4-20	
5	3311801	2	HEX NUT, 1/2-13	
6	4711400	8	FLAT WASHER, 1/4	
7	4711800	4	FLAT WASHER, 1/2	
8	80963050	3	FLOOD LIGHT ASSY, (includes items 101 & 102)	A, 1
9	85941016	4	CLAMP	
10		Ref	BOOM WORK LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
11	1001090580	2	FLOOD LIGHT ASSY, (includes items 201 thru 205)	A
12	4071133	2	KEEPER	
13	1001090581	Ref	BEACON/FLOODLIGHT INSTALLATION, (not available to order, see items 301 thru 306 for service)	B
14	4761400	2	LOCKWASHER, 1/4	
15	8096D097	AR	WIRING DUCT	
16	1001090460	1	WORK LIGHTS SWITCH	
17	1001090461	1	BEACON SWITCH	
18		Ref	CAB WORK LIGHT HARNESS, (See ELECTRICAL SECTION for Breakdown)	
19		Ref	CAB WORK LIGHT AND BEACON LIGHT SWITCH HARNESS, (See ELECTRICAL SECTION for Breakdown)	
20	1001090522	1	BACK-UP LIGHT MOUNTING BRACKET	
21	0642214	1	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5	
22	4712200	1	WASHER, 3/4	
23	14404173	AR	SILICONE SEALANT	
24	8406105	1	CLIP	
25	0641608	1	HEX HD CAPSCREW, 3/8-16X1, GR5	
101	77163105	3	FEMALE BULLET CONNECTOR	
102	86983193	3	MALE BULLET CONNECTOR	
201	4660508	4	PIN TERMINAL	
202	4461017	2	2 POSITION TERMINAL	
203	80963050	2	FLOOD LIGHT ASSY	A, 1
203	83664354	2	BULB	
204	91403503	2	SPACER	
205	91413052	2	WORK LIGHT MOUNTING BOLT	
301	0903669	1	BEACON BRACKET	
302	4460508	4	PIN TERMINAL	
303	4461017	2	2 POSITION TERMINAL	
304	80963050	1	FLOOD LIGHT ASSY	A, 1
304	83664354	1	BULB	
305	91343031	1	ROTATING BEACON	
305	91344053	1	BULB	
306	1001090615	1	GROMMET	

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FIGURE 12-43. WORK LIGHT INSTALLATION (SN 0160030299 through 0160040674, Excluding 0160040468 and 0160040672)



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FIGURE 12-43. WORK LIGHT INSTALLATION (SN 0160030299 through 0160040674, Excluding 0160040468 and 0160040672)

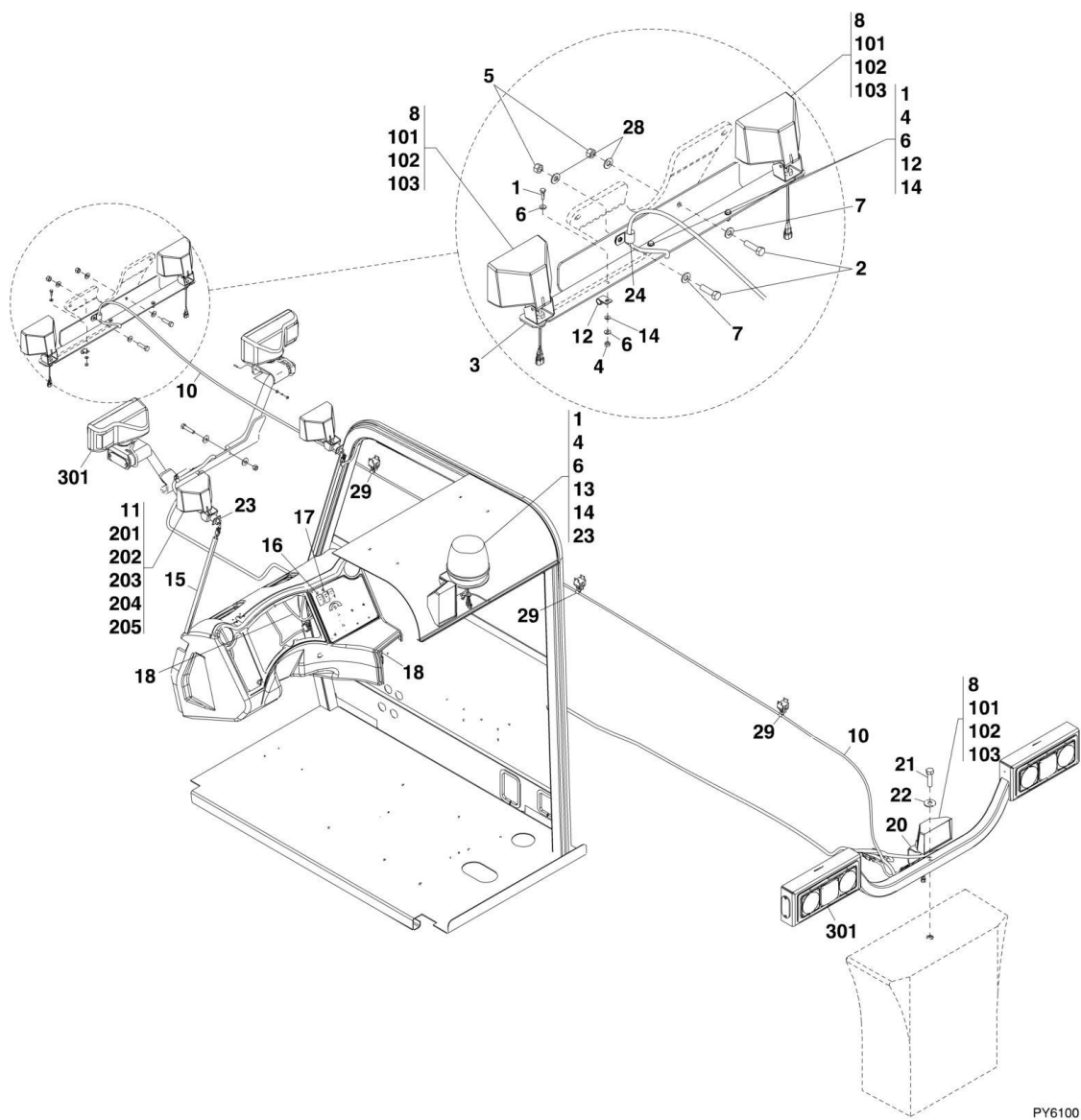
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090468	Ref	WORK LIGHT INSTALLATION, (not available to order, see items 1 thru 28 for service)	H
1	0641407	5	HEX HD CAPSCREW, 1/4-20X7/8, GR5	
2	0641814	2	HEX HD CAPSCREW, 1/2-13X1-3/4, GR5	
3	0903661	1	BOOM LIGHT MOUNTING BRACKET	
4	3311401	5	HEX NUT, 1/4-20	
5	3311801	2	HEX NUT, 1/2-13	
6	4711400	8	FLAT WASHER, 1/4	
7	4711800	8	FLAT WASHER, 1/2	
8	1001095342	3	FLOOD LIGHT ASSY, (includes items 101 thru 103)	B
8	80964070	3	BULB	
9	85941016	3	CLAMP	
10		Ref	BOOM WORK LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
11	1001090580	2	FLOOD LIGHT ASSY, (includes items 201 thru 205)	B
13	1001090581	1	BEACON/FLOODLIGHT INSTALLATION, (includes items 301 thru 311)	D
14	4761400	5	LOCKWASHER, 1/4	
15	8096D097	8.3 ft	WIRING DUCT	
16	1001090460	1	WORK LIGHTS SWITCH	
17	1001090461	1	BEACON SWITCH	
18		Ref	CAB WORK LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
19		Ref	CAB WORK LIGHT AND BEACON LIGHT SWITCH HARNESS, (See ELECTRICAL SECTION for Breakdown)	
20	1001090522	1	BACK-UP LIGHT MOUNTING BRACKET	
21	0642210	1	HEX HD CAPSCREW, 3/4-10X1-1/4, GR5	
22	4712200	1	WASHER, 3/4	
23	14404173	AR	SILICON SEALANT	
24	8406105	1	CLIP	
25	0641608	1	HEX HD CAPSCREW, 3/8-16X1, GR5	
26	77363265	1	RELAY	
27	80694009	1	FUSE	
28	4761800	2	LOCKWASHER, 1/2	
101	4460464	2	PIN TERMINAL	
102	4460897	1	2 POSITION TERMINAL	
103	80963050	1	FLOOD LIGHT ASSY	A, 1
103	80964070	2	BULB	
201	4460464	2	PIN TERMINAL	
202	4460897	1	2 POSITION TERMINAL	
203	80963050	1	FLOOD LIGHT ASSY	A, 1
203	80964070	1	BULB	
204	91403503	1	SPACER	
205	91413052	1	WORK LIGHT MOUNTING BOLT	
301	0903669	1	BEACON BRACKET	
302	4460464	4	PIN TERMINAL	
303	4460897	2	2 POSITION TERMINAL	
304	1001099276	1	FLOOD LIGHT ASSY	A, 1
304	80964070	1	BULB	
305	91343031	1	ROTATING BEACON	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
305	91344053	1	BULB	
306	1001090615	1	GROMMET	
307	0721006	3	INDENTED HEX HD MACHINE SCREW, #10-24X0.75	
308	3311001	3	NUT, #10-24, GR2	
309	4751000	3	WASHER, #10	
310	4761000	3	LOCKWASHER, #10	
311	2820035	AR	INSULATE	

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FIGURE 12-44. WORK LIGHT INSTALLATION (SN 0160040675 through 0160059327, Including 0160040468 and 0160040672, Excluding 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)



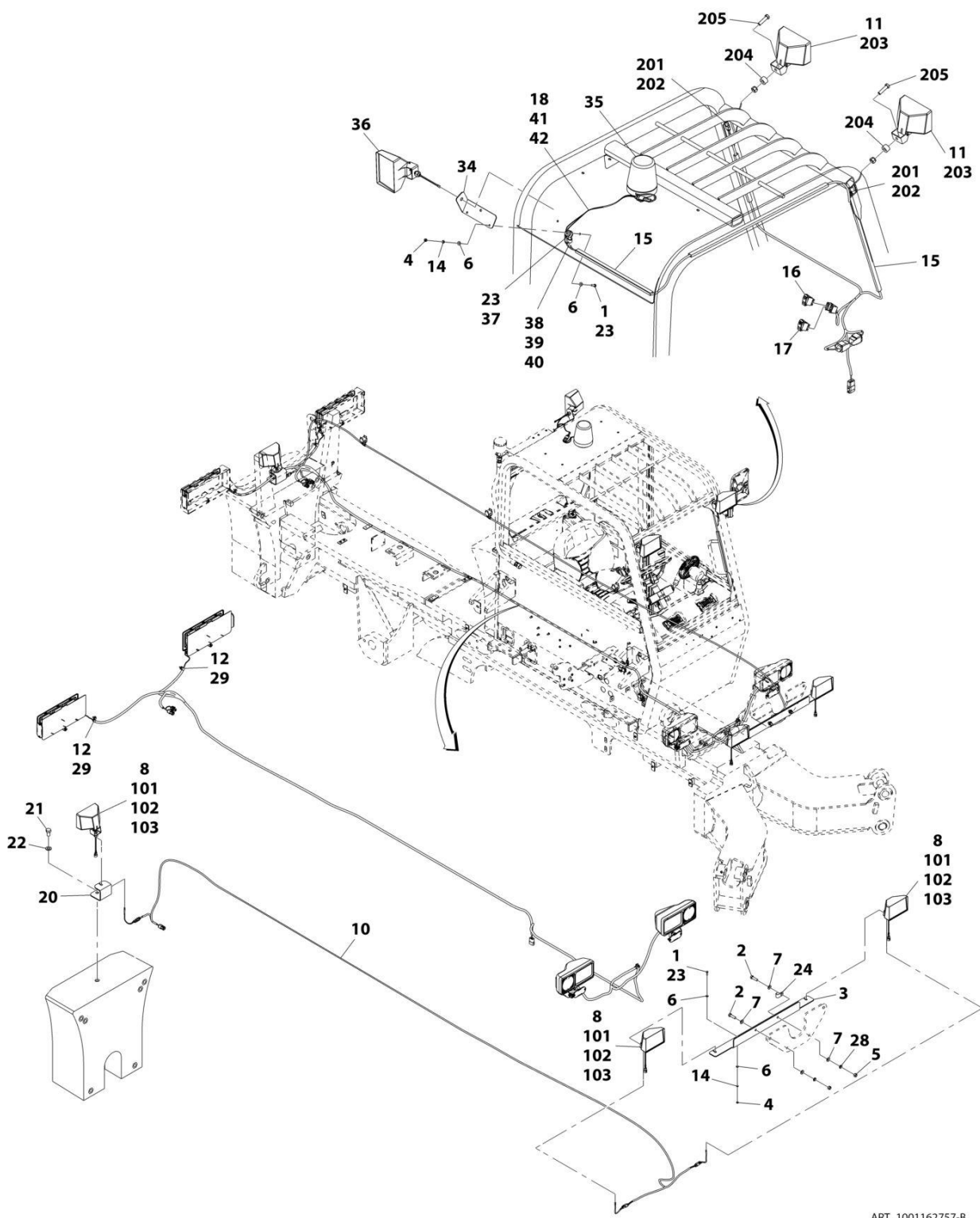
SECTION 12 - OPTIONS

FIGURE 12-44. WORK LIGHT INSTALLATION (SN 0160040675 through 0160059327, Including 0160040468 and 0160040672, Excluding 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110091	Ref	WORK LIGHT INSTALLATION, (if equipped), (not available to order, see items 1 thru 29 for service)	C
1	0641407	5	HEX HD CAPSCREW, 1/4-20X7/8	
1		Ref	HEX HD CAPSCREW, 1/4-20X7/8, (See BEACON LIGHT INSTALLATION for Breakdown)	
2	0641814	2	HEX HD CAPSCREW, 1/2-13X2-3/4	
3	0903661	1	BOOM LIGHT MOUNTING BRACKET	
4	3311401	5	HEX NUT, 1/4-20, GR2	
4		Ref	HEX NUT, 1/4-20, GR2, (See BEACON LIGHT INSTALLATION for Breakdown)	
5	3311801	2	HEX NUT, 1/2-13, GR2	
6	4711400	8	WASHER, 1/4	
6		Ref	WASHER, 1/4, (See BEACON LIGHT INSTALLATION for Breakdown)	
7	4711800	8	WASHER, 1/2	
8	1001095342	3	FLOOD LIGHT ASSY, (includes items 101 thru 103)	B
10		Ref	BOOM WORK LIGHT HARNESS, (See ELECTRICAL SECTION for Breakdown)	
11	1001090580	2	FLOOD LIGHT ASSY, (includes items 201 thru 205)	B
12	1320263	3	CLAMP, 3/8	
13		Ref	BEACON LIGHT INSTALLATION, (See BEACON LIGHT INSTALLATION for Breakdown)	
14	4761400	5	LOCKWASHER, 1/4	
14		Ref	LOCKWASHER, 1/4, (See BEACON LIGHT INSTALLATION for Breakdown)	
15	8096D097	7.3 ft	ECONOMY WIRING DUCT	
16	1001090460	1	WORK LIGHT SWITCH	
17		Ref	BEACON LIGHT SWITCH, (See BEACON LIGHT INSTALLATION for Breakdown)	
18		Ref	CAB WORK LIGHT HARNESS, (See ELECTRICAL SECTION for Breakdown)	
20	1001090522	1	BACK-UP LIGHT MOUNTING BRACKET	
21	0642210	1	HEX HD CAPSCREW, 3/4-10X1-1/4	
22	4712200	1	WASHER, 3/4	
23	14404173	AR	SILICONE SEALANT	
24	8406105	1	CLAMP, 3/4	
28	4761800	2	LOCKWASHER, 1/2	
29	1320263	3	CLAMP, 3/8	
101	4460464	2	PIN TERMINAL	
102	4460897	1	2 POSITION TERMINAL	
103	80963050	1	FLOOD LIGHT ASSY	A, 1
103	80964070	2	BULB	
201	4460464	4	PIN TERMINAL	
202	4460897	2	2 POSITION TERMINAL	
203	80963050	2	FLOOD LIGHT ASSY	A, 1
203	83664354	2	BULB	
204	91403503	2	SPACER	
205	91413052	2	WORK LIGHT MOUNTING BOLT	
301		Ref	ROAD LIGHT INSTALLATION, (See ROAD LIGHTS INSTALLATION for Breakdown)	

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FIGURE 12-45. WORK LIGHT INSTALLATION (SN 0160059335 to Present, Including 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)



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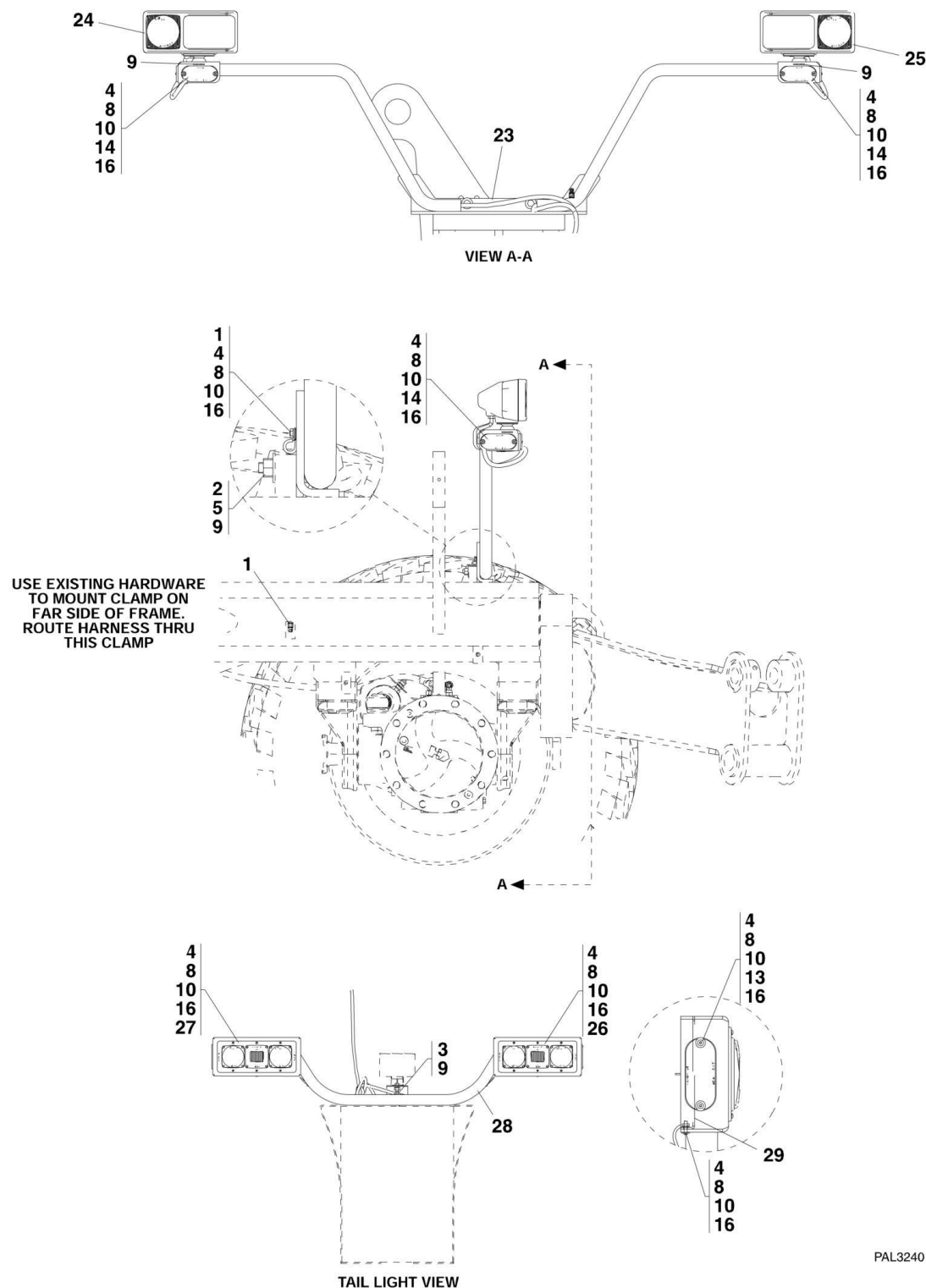
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FIGURE 12-45. WORK LIGHT INSTALLATION (SN 0160059335 to Present, Including 0160058678, 0160058998, 0160059008, 0160059160, 0160059170 and 0160059320)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162757	Ref	WORK LIGHT INSTALLATION, (if equipped), (not available to order, see items 1 thru 38 for service)	B
1	0641407	5	HEX HD CAPSCREW, 1/4-20X7/8	
2	0641814	2	HEX HD CAPSCREW, 1/2-13X2-3/4	
3	0903661	1	BOOM LIGHT MOUNTING BRACKET	
4	3311401	5	HEX NUT, 1/4-20 UNC GR2	
5	3311801	2	HEX NUT, 1/2-13 UNC GR2	
6	4711400	8	WASHER, 1/4	
7	4711800	8	WASHER, 1/2	
8	1001095342	3	FLOOD LIGHT ASSY, (includes items 101 thru 103)	B
10	1001125382	1	BOOM WORK LIGHT HARNESS (See Separate Breakdown in ELECTRICAL Section)	
11	1001090580	2	FLOOD LIGHT ASSY, (includes items 201 thru 205)	B
12	1320263	3	CLAMP	
14	4761400	5	WASHER, 1/4	
15	8096D097	7.3 ft	ECONOMY WIRING DUCT	
16	1001090460	1	WORK LIGHT SWITCH	
17	1001090461	1	BEACON SWITCH	
18	1001224062	1	CAB WORK LIGHT HARNESS (See Separate Breakdown in ELECTRICAL Section)	
20	1001090522	1	BACK-UP LIGHT MOUNTING BRACKET	
21	0642210	1	HEX HD CAPSCREW, 3/4-10X1-1/4	
22	4712200	1	WASHER, 3/4	
23	14404173	AR	SILICONE SEALANT	
24	8406105	1	CLAMP, SUPPORT, 3/4	
28	4761800	2	WASHER, 1/2	
29	1320263	3	CLAMP, SUPPORT, 3/8	
34	1001146009	1	WORKLIGHT BRACKET	
35	8500066	1	BEACON LIGHT	
36	1001099276	1	WORK LIGHT	
37	1001090615	1	GROMMET	
38	4460464	2	PIN	
39	4460897	1	CONNECTOR, 2 POS RECEPTACLE (DT)	
40	2820035	1.2 ft	INSULATE	
41	1001117021	1	CONNECTOR, METRI-PAK 280 (2 POS)	
42	8220890	1	CONNECTOR, LOCK (METRI-PACK 280, 2 POS)	
101	4460464	2	PIN TERMINAL	
102	4460897	1	2 POSITION TERMINAL	
103	80963050	1	FLOOD LIGHT ASSEMBLY	
201	4460464	2	PIN TERMINAL	
202	4460897	1	2 POSITION TERMINAL	
203	80963050	1	UTILITY FLOOD LIGHT A	
203	80964070	1	BULB	
204	91403503	1	SPACER	
205	91413052	1	WORK LIGHT MOUNTING BOLT	

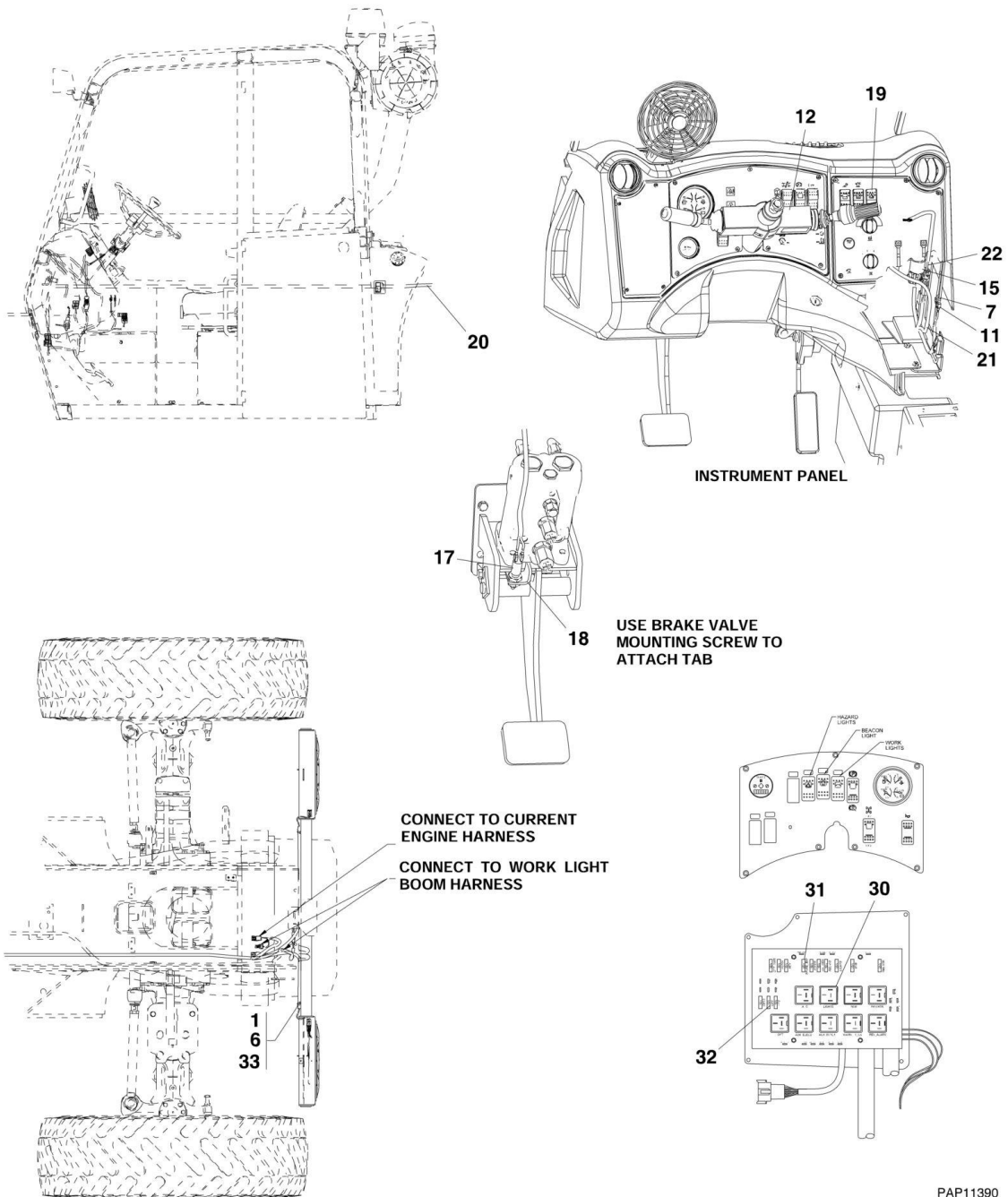
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FIGURE 12-46. ROAD LIGHTS INSTALLATION (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



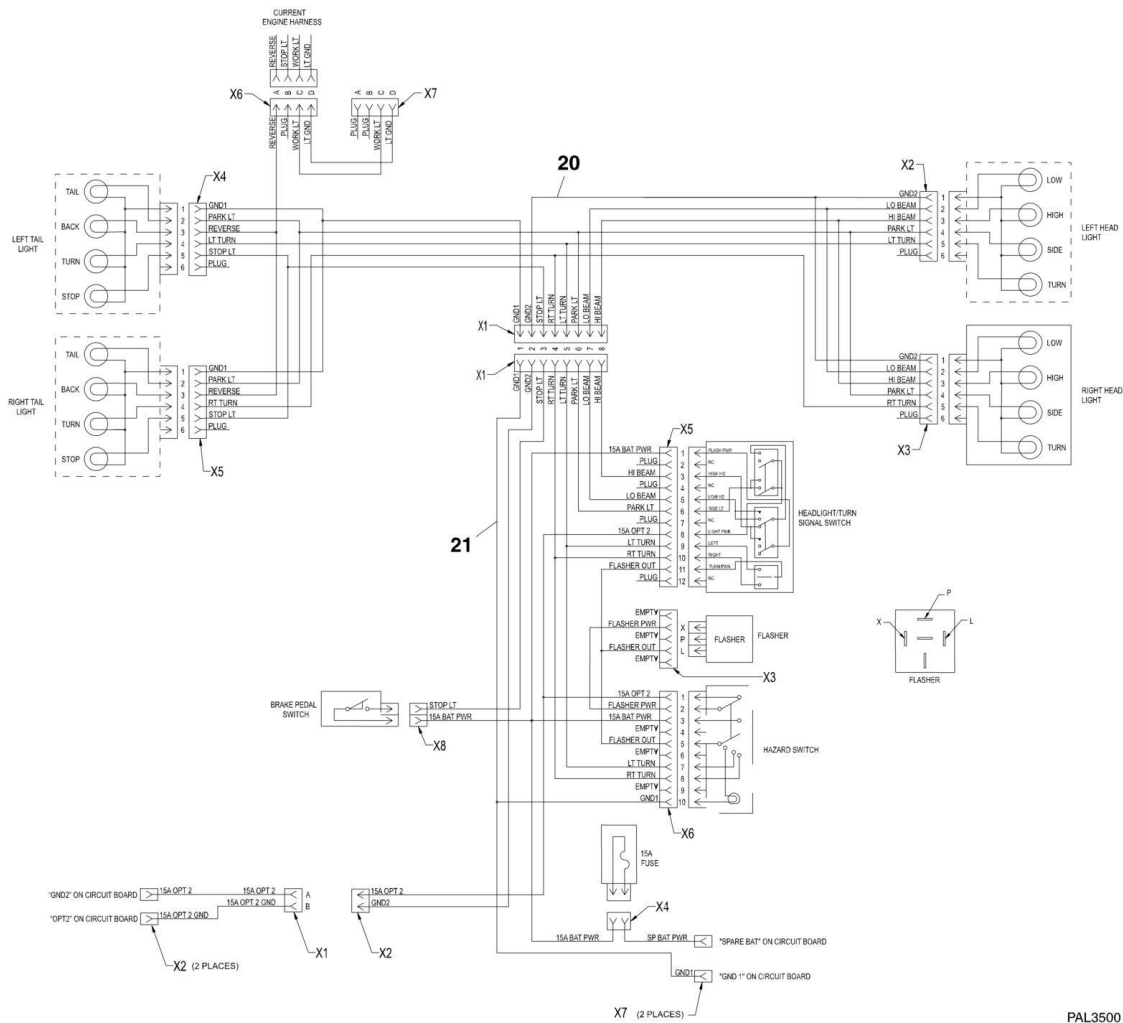
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PAL3500

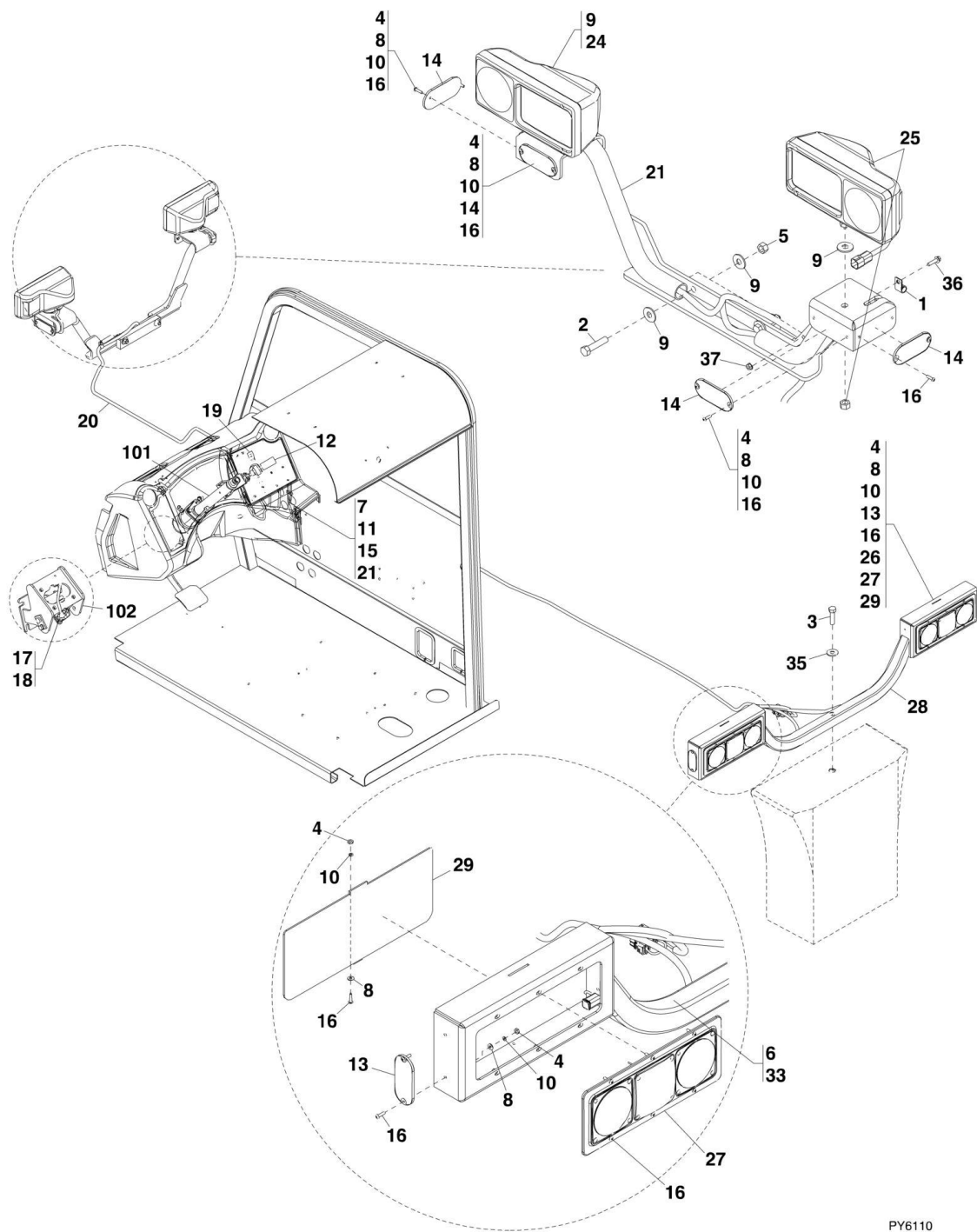
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FIGURE 12-46. ROAD LIGHTS INSTALLATION (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090469	1	ROAD LIGHTS INSTALLATION, (includes all items)	F
1	80630	2	CLAMP, 1/2	
2	0641818	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5, (torque to 75 lb-ft)	
3	0641822	1	HEX HD CAPSCREW, 1/2-13X2-3/4, GR5, (torque to 80 lb-ft)	
4	3311001	27	HEX NUT, 10-24	
5	311805	2	HEX LOCKNUT, 1/2-13	
6	3941506	2	TAP SCREW	
7	4461254	1	FASTON TERMINAL	
8	4711000	30	FLAT WASHER, #10	
9	4751800	7	FLAT WASHER, 1/2	
10	4761000	27	LOCKWASHER, #10	
11	8220050	1	CONNECT TERMINAL, MALE	
12	8223073	1	TURN SIGNAL SELECTOR	
13	10718991	2	REFLECTOR, RED	
14	10718992	4	REFLECTOR, YELLOW	
15	80983168	1	VARIABLE LOAD FLASHER	
16	88261010	27	SOCKET BUTTON HD CAPSCREW, #10-24X3/4	
17	91143117	1	STOPLIGHT SWITCH	
18	91511127	1	MOUNTING TAB	
19	1001090459	1	SWITCH	
20		Ref	FRAME ROAD LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
21		Ref	CAB ROAD LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
22	1001090510	1	ROAD LIGHTS HARNESS	
23	1001094264	1	FRONT ROAD LIGHTS BRACKET	
24	1001094390	1	FRONT ROAD LIGHTS, RH, (torque to 50 lb-ft)	
24	91503103	1	CONNECTOR	
24	91504107	1	LOCK CONNECTOR	
25	1001094391	1	FRONT ROAD LIGHTS, LH, (torque to 50 lb-ft)	
25	91503103	1	CONNECTOR	
25	91504107	1	LOCK CONNECTOR	
26	1001094392	1	TAIL LIGHT, RH	
26	91503103	1	CONNECTOR	
26	91504107	1	LOCK CONNECTOR	
27	1001094393	1	TAIL LIGHT, LH	
27	91503103	1	CONNECTOR	
27	91504107	1	LOCK CONNECTOR	
28	1001094523	1	TAIL LIGHT BRACKET	
29	1001094824	2	TAIL LIGHT COVER	
30	77363265	1	RELAY	
31	8229262	1	25A FUSE	
32	8229237	1	15A FUSE	
33	86621230	2	CLAMP, SUPPORT	

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FIGURE 12-47. ROAD LIGHTS INSTALLATION (SN 0160040675 to Present, Including 0160040468 and 0160040672)



PY6110

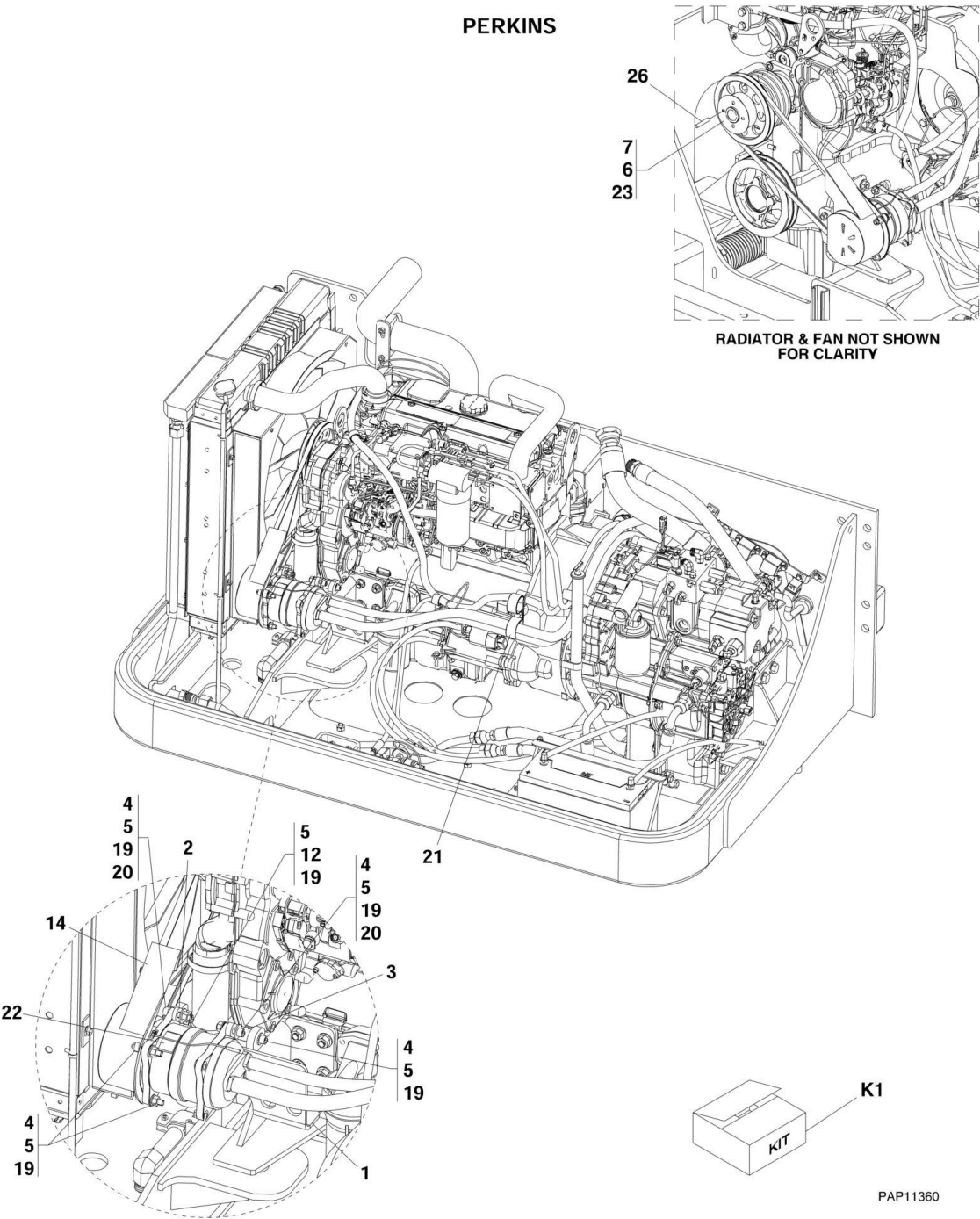
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FIGURE 12-47. ROAD LIGHTS INSTALLATION (SN 0160040675 to Present, Including 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001113091	Ref	ROAD LIGHTS INSTALLATION, (if equipped), (not available to order, see items 1 thru 37 for service)	A,4
1	85941016	1	1/2IN CLAMP	
2	0641818	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5	
3		Ref	HEX HD CAPSCREW, 3/4-10X2-3/4, GR5, (See WORK LIGHT INSTALLATION for Breakdown)	
4	3311001	26	HEX NUT, #10-24, GR2	
5	3311805	2	HEX LOCKNUT, 1/2-13, GR2	
6	3941506	2	SELF TAPPING MACHINE SCREW, 5/16X3/4	
7	4461254	1	CONNECTOR	
8	4711000	28	WASHER, #10	
9	4751800	6	WASHER, 1/2	
10	4761000	26	LOCKWASHER, #10	
11	8220050	1	CONNECTOR	
12	8223073	1	TURN SIGNAL SELECTOR	
13	10718991	2	RED REFLECTOR	
14	10718992	4	YELLOW REFLECTOR	
15	80983168	1	FLASHER,VARIABLE LOAD	
16	88261010	26	BUTTON HD CAPSCREW, #10-24X3/4	
17	91143117	1	STOPLIGHT SWITCH	
18	91511127	1	STOPLIGHT SWITCH MOUNTING TAB	
19	1001090459	1	HAZARD SWITCH	
20		Ref	FRAME ROAD LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
21		Ref	CAB ROAD LIGHTS HARNESS, (See ELECTRICAL SECTION for Breakdown)	
23	1001094264	1	FRONT ROAD LIGHTS BRACKET	
24	1001094390	1	RH FORWARD ROAD LIGHT ASSY, (torque to 50 lb-ft)	
25	1001094391	1	LH FORWARD ROAD LIGHT ASSY, (torque to 50 lb-ft)	
26	1001094392	1	RH TAIL LIGHT ASSY	
27	1001094393	1	LH TAIL LIGHT ASSY	
28	1001094523	1	TAIL LIGHT BRACKET	
29	1001094824	2	TAIL LIGHT COVER	
33	1320263	2	3/8IN CLAMP	
35		Ref	WASHER, 3/4, (See WORK LIGHT INSTALLATION for Breakdown)	
36	0791408	1	SERRATED FLANGE HEX HD CAPSCREW, 1/4-20X1	
37	3311408	1	FLANGE NUT, 1/4-20, GRADE F	
101		Ref	STEERING COLUMN, (See CONTROLS SECTION for Breakdown)	
102		Ref	BRAKE PEDAL INSTALLATION, (See CONTROLS SECTION for Breakdown)	

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FIGURE 12-48. ENGINE AIR CONDITIONING COMPONENTS PERKINS (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



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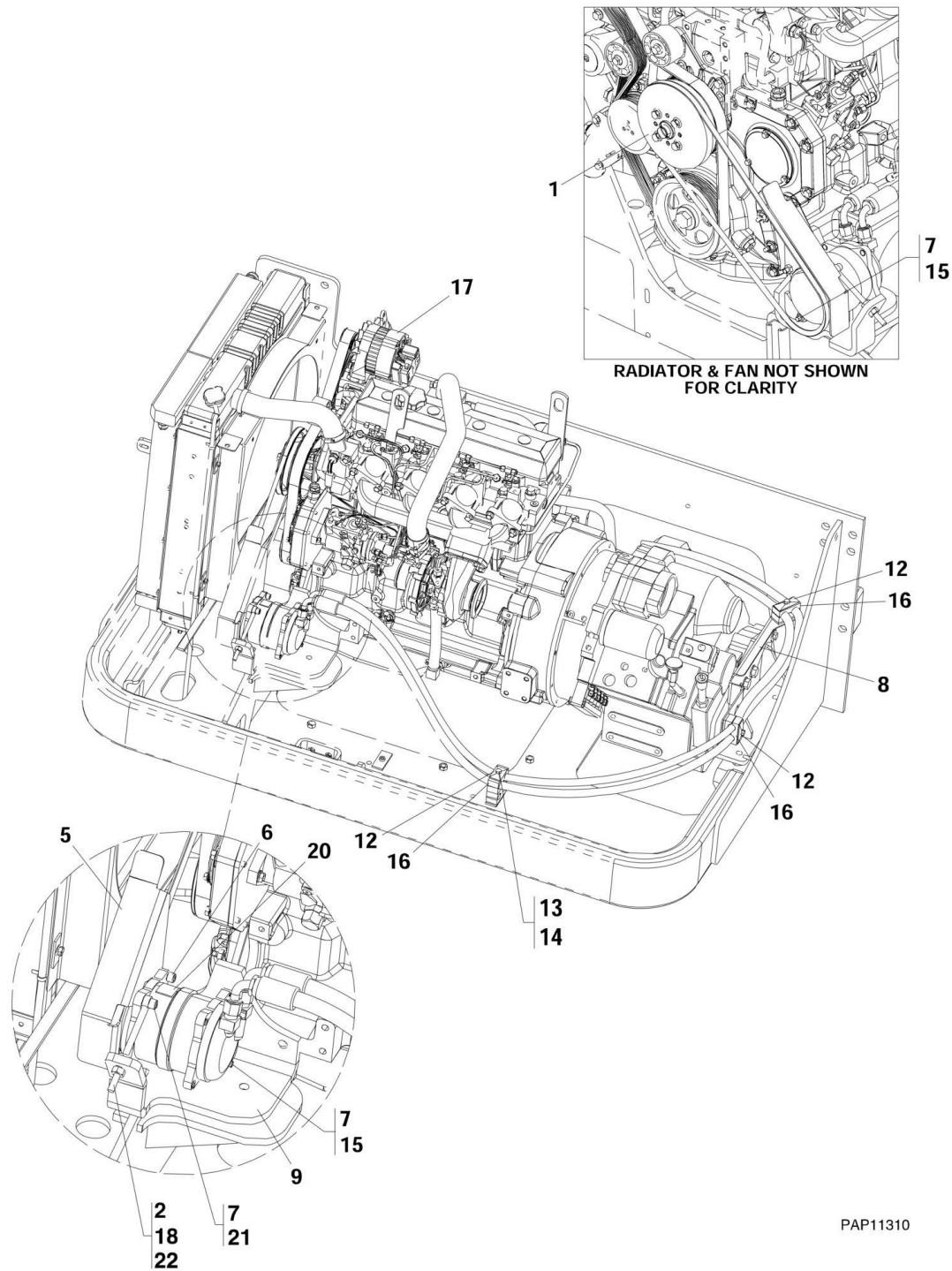
FIGURE 12-48. ENGINE AIR CONDITIONING COMPONENTS PERKINS (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090106	1	AIR CONDITIONING, (PERKINS), (includes all items)	K
1	1001091721	1	COMPRESSOR BRACKET	
2	1001090644	1	ADJUSTMENT BRACKET	
3	1001097848	1	FRONT ADJUSTMENT BRACKET	
4	3931624	7	SOC HD CAPSCREW, 3/8-16X1-1/2	
5	3311605	8	HEX LOCK NUT, 3/8-16, GR2	
6	1001091724	NLA	PULLEY, (no longer available, order Kit K1) (Prior to SN 0160038531)	
6	1001112888	1	PULLEY (SN 0160038531 to Present)	
7	1001112960	1	SPACER, AC PULLEY (SN 0160038531 to Present)	
12	3931620	1	SOC HD CAPSCREW, 3/8-16X1-1/4	
14	1001097849	1	COVER	
19	4711600	14	WASHER, 3/8	
20	4751600	2	WASHER, 3/8	
21	90028660	1	CLAMP, 1-3/4	
22	1001093526	1	A/C REFRIGERANT DECAL	
23	1001093244	AR	SHIM	
26	1001121270	4	STUD, M8X90	
K1	1001119506	1	PULLEY REPLACEMENT KIT, (includes items 6 & 7)	

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FIGURE 12-49. ENGINE AIR CONDITIONING COMPONENTS JOHN DEERE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

JOHN DEERE



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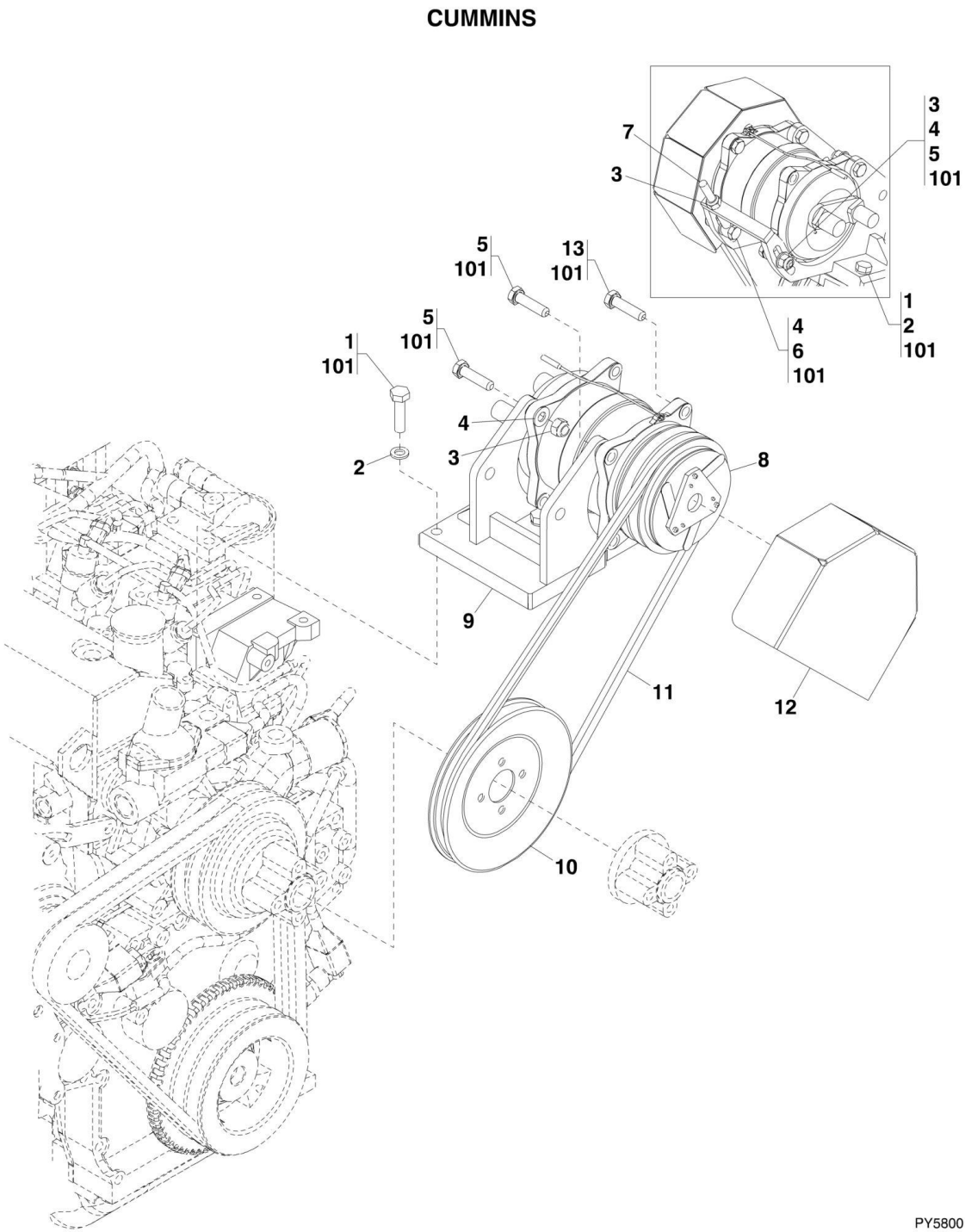
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FIGURE 12-49. ENGINE AIR CONDITIONING COMPONENTS JOHN DEERE (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275723	1	AIR CONDITIONING, (JOHN DEERE), (includes all items)	E
1	80373112	1	PULLEY	
2	88681311	1	ROD END	
5	3380770	1	BELT GUARD	
6	3931620	1	SOC HD CAPSCREW, 3/8-16X1-1/2	
7	3931624	3	SOC HD CAPSCREW, 3/8-16X1-1/4	
8	4341376	1	HOSE CLAMP SUPPORT	
9	4341385	1	MOUNT BRACKET	
12	77133137	3	COVER PLATE	
13	77133306	1	STACK BOLT	
14	77133390	1	SAFETY CLIP	
15	77143015	2	LOCKNUT, 3/8-16	
16	77133279	3	CLAMP SET	
17	80973108	1	ALTERNATOR (Prior to SN 0160037671)	
17	1001108292	1	ALTERNATOR (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
18	88501006	2	HEX NUT, 3/8-16	
20	1001093526	1	A/C REFRIGERANT DECAL	
21	4751600	2	WASHER, 3/8	
22	4891600	2	HARDENED WASHER, 3/8	

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FIGURE 12-50. ENGINE AIR CONDITIONING COMPONENTS (SN 0160040675 to Present, Including 016004068 and 0160040672)



PY5800

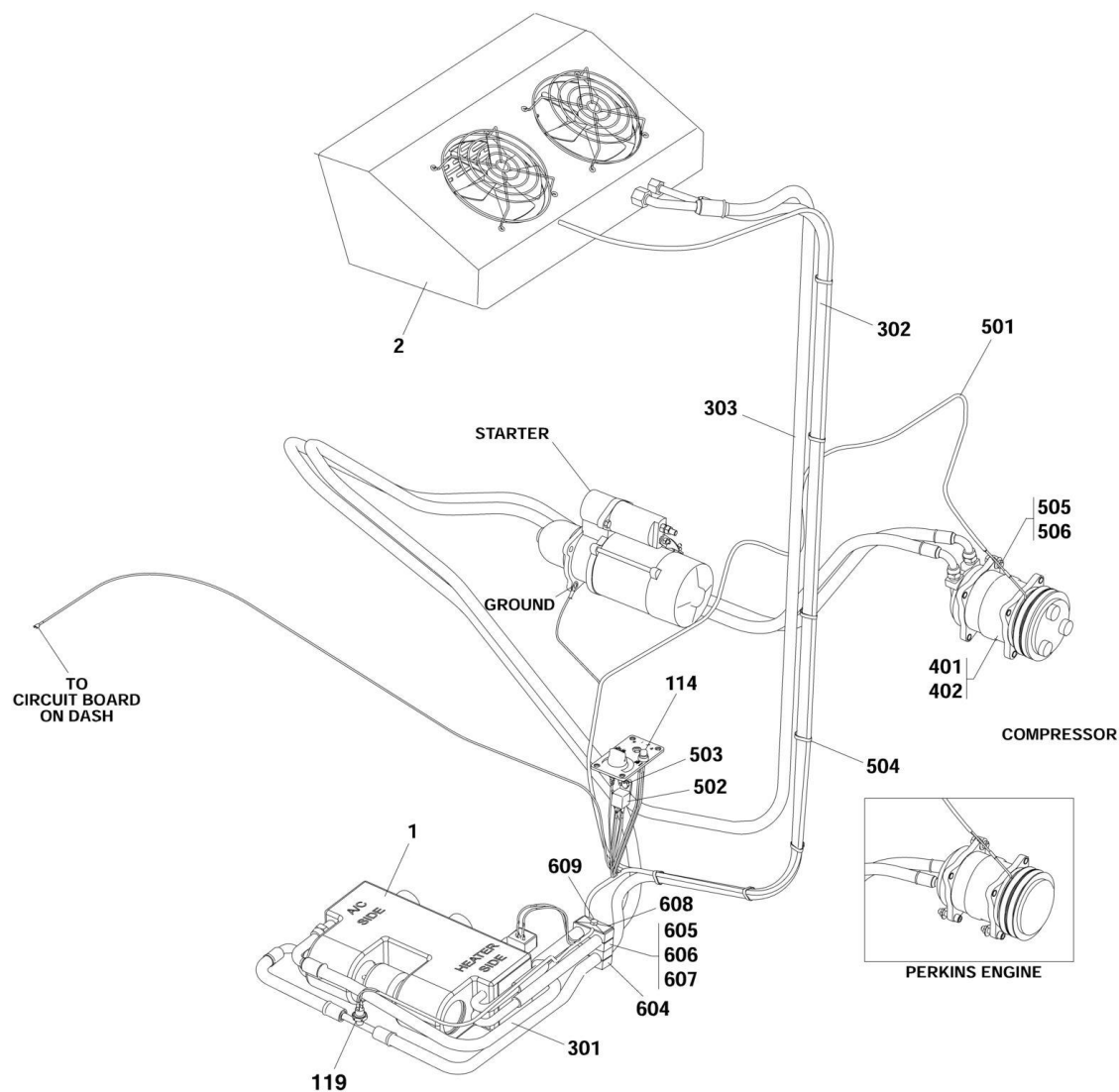
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FIGURE 12-50. ENGINE AIR CONDITIONING COMPONENTS (SN 0160040675 to Present, Including 016004068 and 0160040672)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120451	Ref	AIR CONDITIONING COMPONENTS INSTLLATION, (CUMMINS), (not available to order, see items 1 thru 13 for service)	B
1	0711016	3	HEX HD CAPSCREW, M10X40, GR10.9	
2	4832000	3	SPRING LOCKWASHER, M10	
3	8305630	3	HEX LOCKNUT, M10X1.5	
4	8307221	3	WASHER, M10	
5	8310534	3	HEX HD CAPSCREW, M10X40, GR10.9	
6	8310736	1	HEX HD CAPSCREW, M10X50, GR10.9	
7	8310737	1	ROD END, M10X100	
8	1001107339	1	A/C COMPRESSOR CLUTCH	
9	1001120420	2	A/C MOUNT BRACKET	
10	1001120544	1	A/C DRIVE PULLEY	
11	1001120680	1	A/C BELT	
12	1001120856	1	A/C BELT SHIELD	
13	8310688	1	HEX HD CAPSCREW, M10X30	
101	0100011	AR	LOCTITE 242	

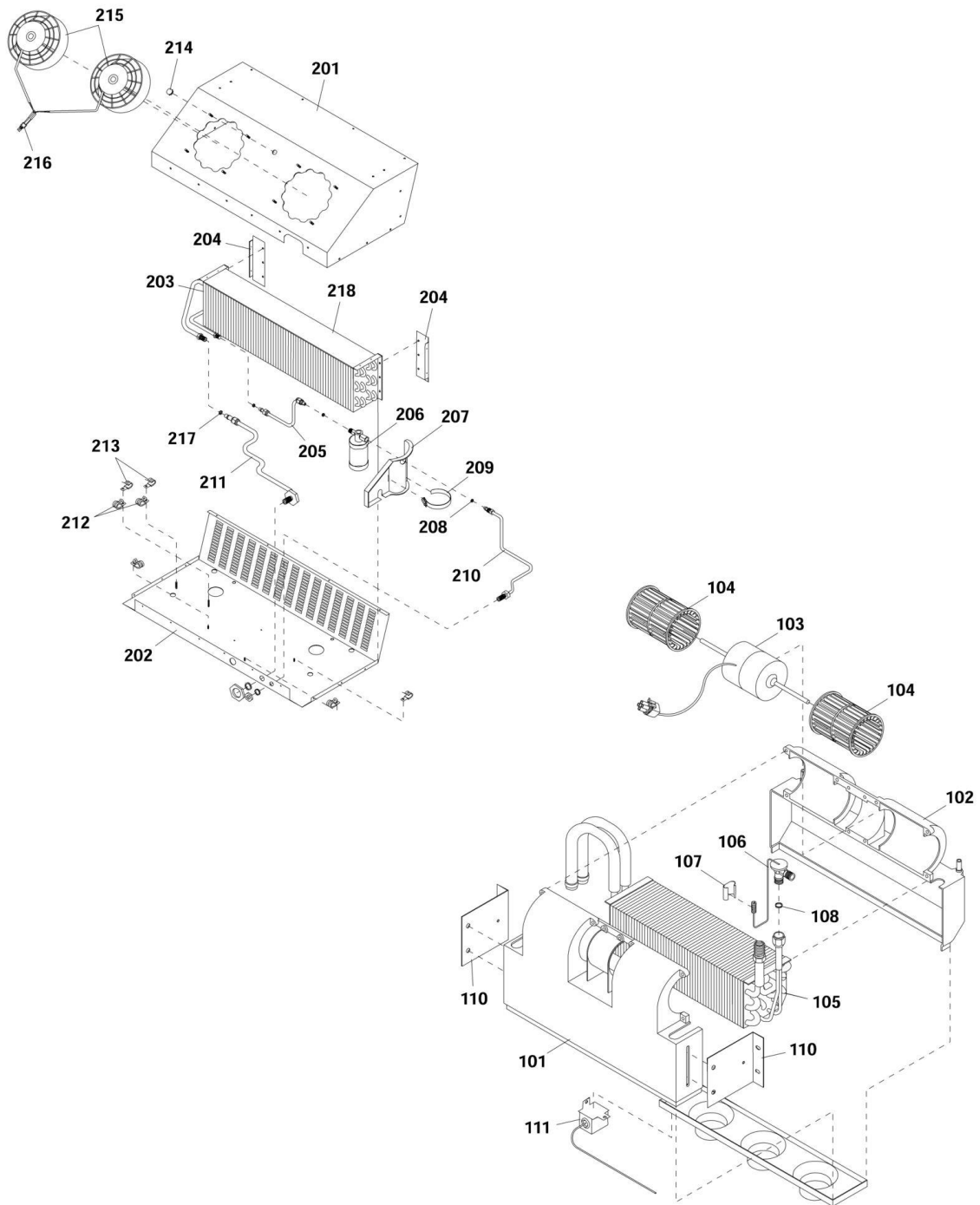
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FIGURE 12-51. AIR CONDITIONING COMPONENTS (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)



91514001-12-49A

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FIGURE 12-51. AIR CONDITIONING COMPONENTS (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)

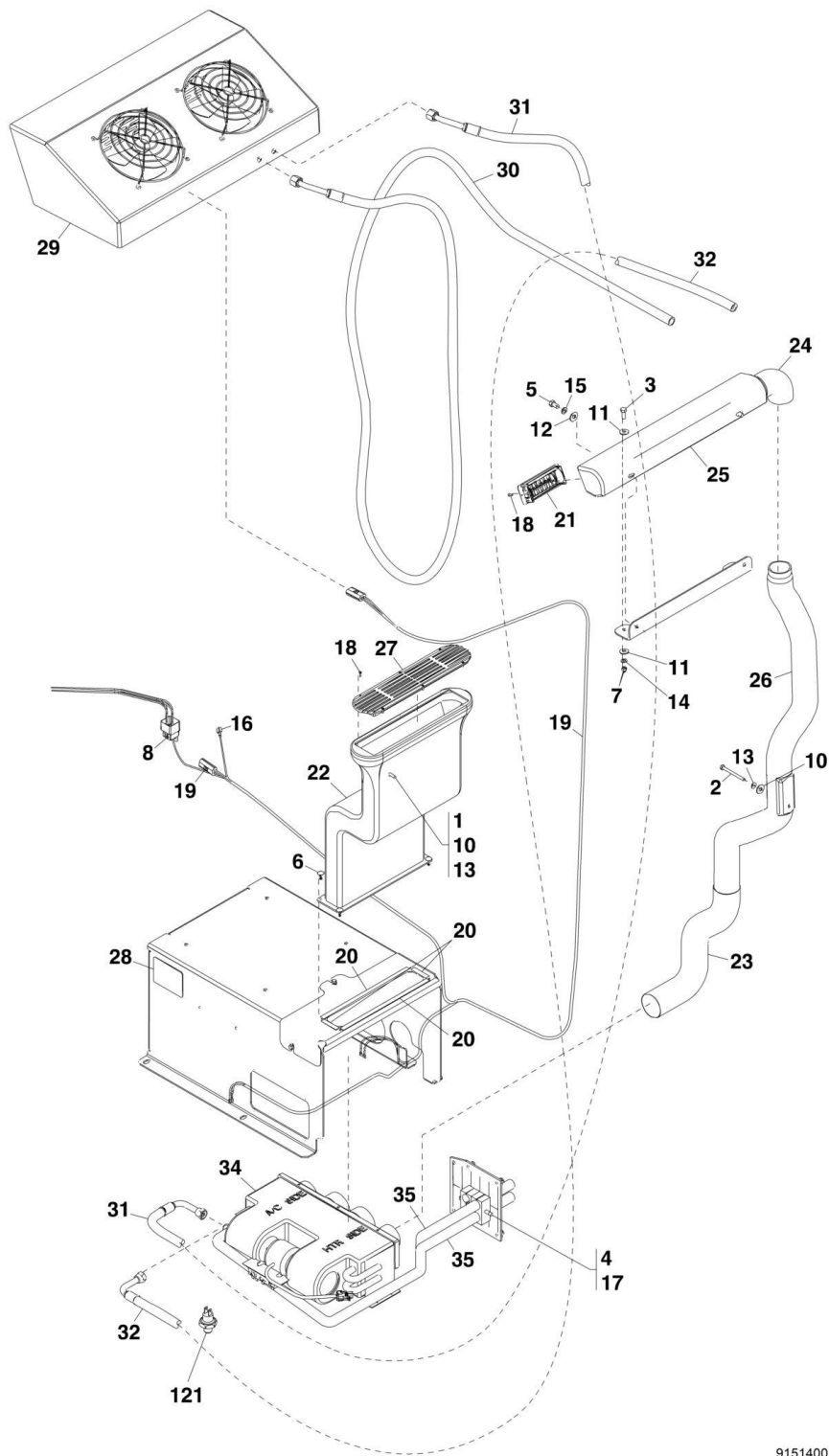
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001107343	1	EVAPORATOR/HEATER UNIT, (includes items 101 thru 119)	B
2	1001107340	1	CONDENSOR, (includes items 201 thru 225)	A
101	70022552	1	CASE TOP	
102	70022553	1	CASE BOTTOM	
103	91404438	1	BLOWER MOTOR	
104	91404439	1	BLOWER WHEEL	
105	70022876	1	HEATER/COOLER COIL	
106	91514272	1	VALVE	
107	70022877	1	BULB CLAMP	
108	80363103	1	O-RING, #8	
110	70022878	2	LEG	
111	91514265	1	THERMOSTAT	
112	70022879	4	WORM GEAR CLAMP, (not illustrated)	
113	70022555	1	AIR RESTRICTER, (not illustrated)	
114	91514296	1	METRO SWITCH	
115	70022892	1.5 ft	CORK TAPE, (not illustrated)	
116	70022556	3 ft	DRAIN HOSE, 3/8, (not illustrated)	
117	70022557	1	DRAIN ELBOW, 3/8, (not illustrated)	
118	70022558	1	DRAIN TEE, 3/8, (not illustrated)	
119	80363099	1	PRESSURE SWITCH	
201	70020643	1	CASE TOP	
202	70022880	1	CASE BOTTOM	
203	70020644	1	OVERHEAD CONDENSER COIL	
204	70022881	2	MOUNTING BRACKET	
205	91514270	1	TUBE ASSY	
206	91514266	1	DRIER	
207	70022882	1	DRIER MOUNT	
208	80363102	1	O-RING	
209	70022883	1	HOSE CLAMP	
210	70020645	1	TUBE ASSY	
211	70020646	1	TUBE ASSY	
212	70022884	4	HOSE CLAMP	
213	70022885	3	CUSHION CLAMP	
214	70022886	1	HOLE PLUG	
215	91514295	2	CONDENSER FAN	
216	70020647	1	HARNESS PIGTAIL	
217	80363103	1	O-RING, #8	
218	70022891	2 ft	CLOSED CELL FOAM	
219	70020648	4	WELL NUT, (not illustrated)	
220	70022887	8	NYLON INSERT NUT, 1/4-20, (not illustrated)	
221	70020649	1	RELAY, (not illustrated)	
222	70022890	4	HEX HD CAPSCREW, 3/8-16X3, (not illustrated)	
223	70020650	1	HARNESS, (not illustrated)	
224	70022888	4	FLAT WASHER, 3/8, (not illustrated)	
225	70022889	4	LOCKWASHER, 3/8, (not illustrated)	
301	1001107427	1	HOSE ASSY	
302	1001107428	1	HOSE ASSY	
303	1001107429	1	HOSE ASSY	
401	1001107339	1	COMPRESSOR	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
402	1001107344	1	BELT, (John Deere, Perkins Engine)	
403	80363102	2	O-RING, #6, (not illustrated)	
404	80363103	2	O-RING, #8, (not illustrated)	
405	80363104	2	O-RING, #10, (not illustrated)	
501	91513217	1	A/C WIRING HARNESS	
502	77383410	1	RELAY	
503	88201016	1	HEX HD CAPSCREW, 5/16-18X1/2	
504	90027187	14	TIE WRAP	
505	80973025	1	BOLT, 3/8-16X1, (John Deere Engine)	
505	0791608	1	SCREW, 3/8-16X1, (Perkins engine)	
506	77143015	1	LOCK NUT, 3/8-16	
604	77323029	1	CLAMP SET	
605	77133279	1	CLAMP SET	
606	77133306	1	STACK BOLT	
607	77133390	1	SAFETY CLIP	
608	77133137	1	COVER PLATE	
609	88201023	1	HEX HD CAPSCREW, 5/16-18X1-3/4	

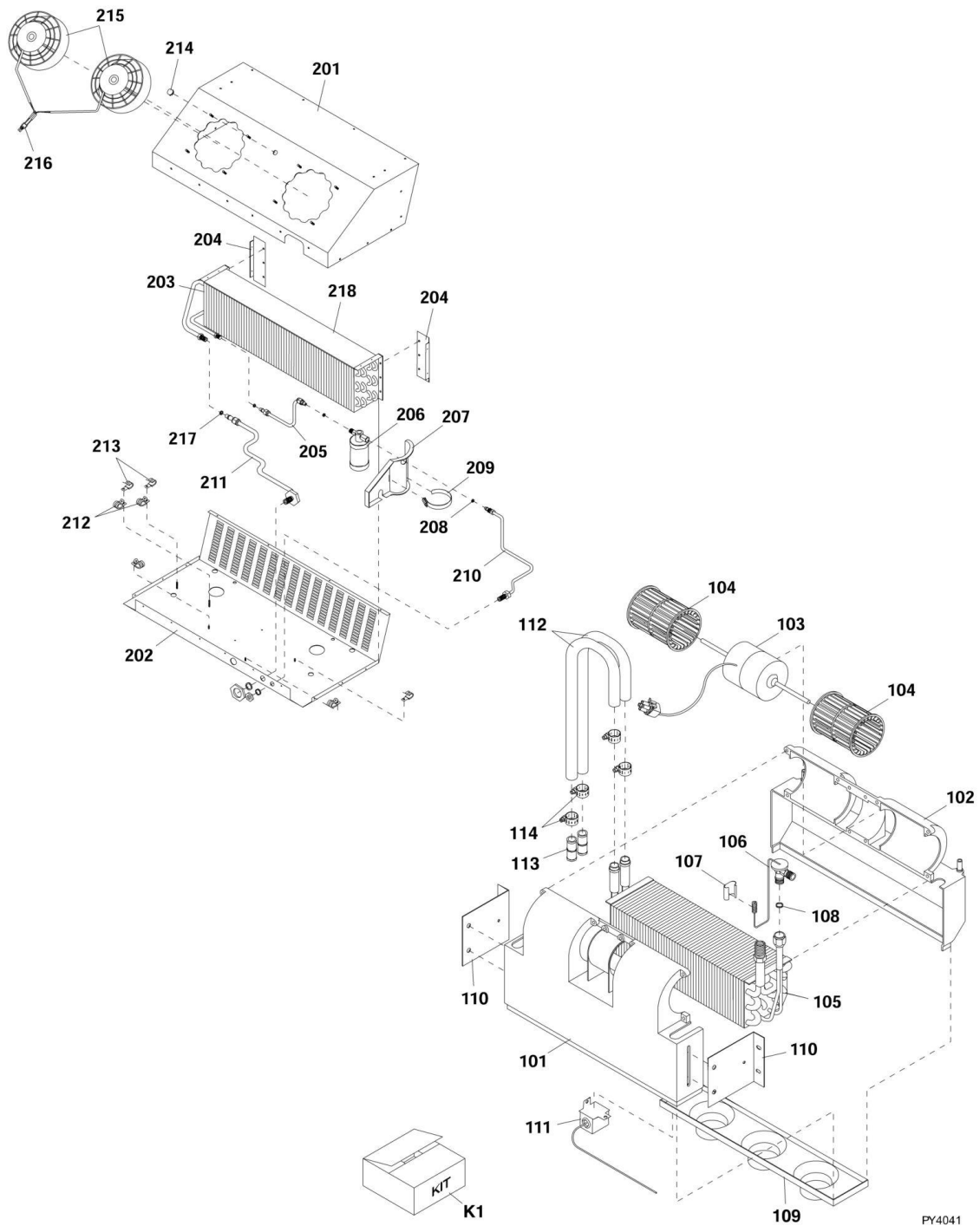
SECTION 12 - OPTIONS

FIGURE 12-52. AIR CONDITIONING COMPONENTS (SN 0160040675 to Present, Including 016004068 and 0160040672)



91514001-12-50A

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FIGURE 12-52. AIR CONDITIONING COMPONENTS (SN 0160040675 to Present, Including 016004068 and 0160040672)

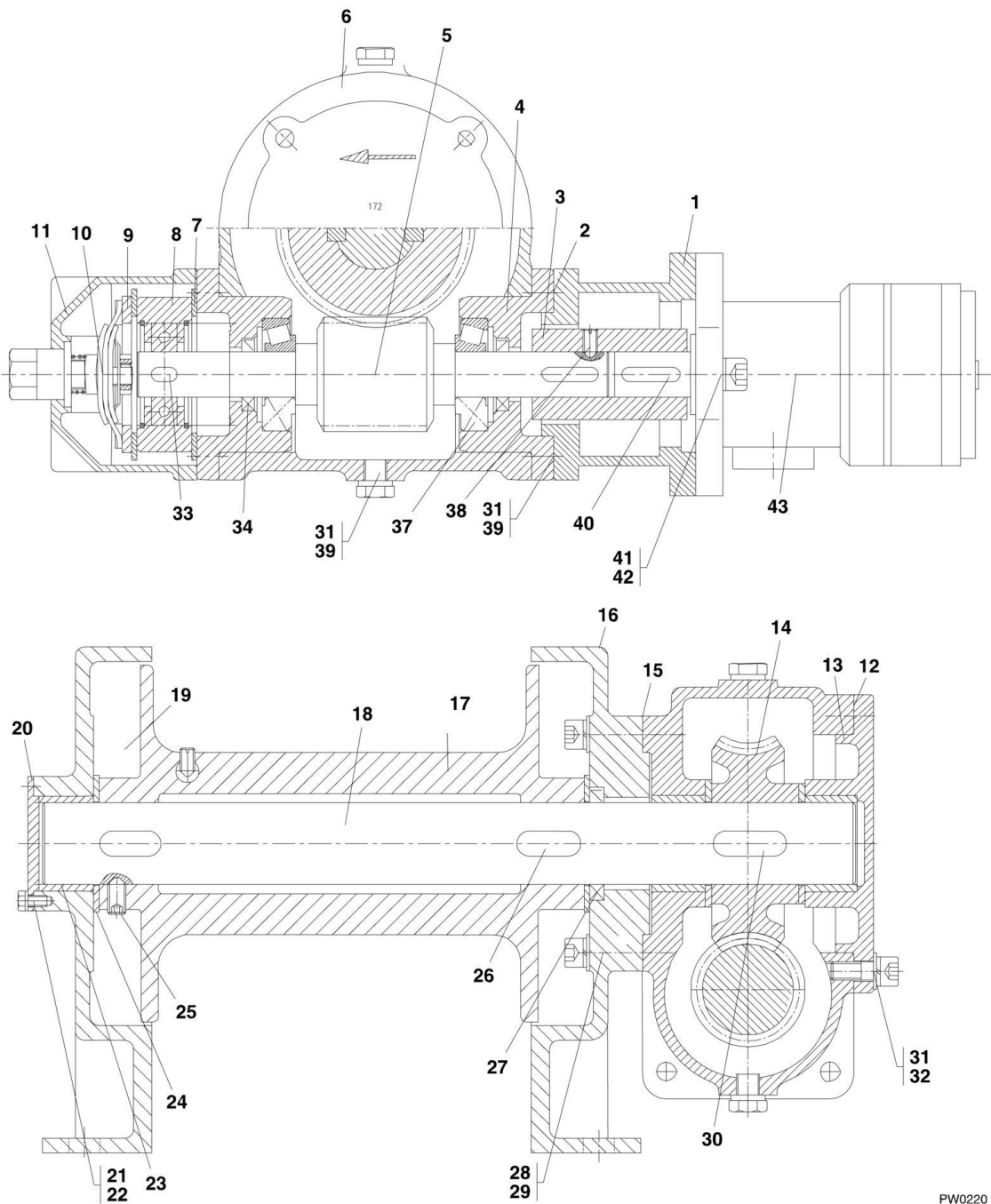
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119691	Ref	AIR CONDITIONING COMPONENTS INSTALLATION, (not available to order, see items 1 thru 35 for service)	B
1	0641408	1	HEX HD CAPSCREW, 1/4-20X1, GR5	
2	0641424	1	HEX HD CAPSCREW, 1/4-20X3, GR5	
3	0641507	2	HEX HD CAPSCREW, 5/16-18X7/8, GR5	
4	0641532	1	HEX HD CAPSCREW, 5/16-18X4, GR5	
5	0641605	2	HEX HD CAPSCREW, 3/8-16X5/8, GR5	
6	1380158	4	RETAINER CLIP	
7	2080063	2	NYLON LOCK NUT, 1/4-20	
8	3740080	1	RELAY	
9	4240033	5	WIRE TIE, (not shown)	
10	4711400	2	WASHER, 1/4	
11	4751500	4	WASHER, 5/16	
12	4751600	2	WASHER, 3/8	
13	4761400	2	LOCKWASHER, 1/4	
14	4761500	2	LOCKWASHER, 5/16	
15	4761600	2	LOCKWASHER, 3/8	
16	10726703	1	MALE TERMINAL	
17	77323029	1	CLAMP SET	
18	91413036	10	SELF TAPPING SCREW, #6X1/2	
19	91563247	1	A/C HARNESS	
20	1001090344	28 in	NEOPRENE TAPE	
21	1001100279	2	DEFROST VENT	
22	1001100281	1	MAIN SUCTION VENT	
23	1001100446	21 in	HOSE	
24	1001100770	1	TUBE ASSY	
25	1001100773	1	BRACKET	
26	1001101259	1	TUBE ASSY	
27	1001101640	1	SUCTION VENT FILTER	
28	1001103956	1	A/C DECAL	
29	1001107340	1	CONDENSER, (includes items 201 thru 225)	A
30	1001107427	1	HOSE ASSY	
31	1001107428	1	HOSE ASSY	
32	1001107429	1	HOSE ASSY	
33		Ref	ENCLOSED CAB, (not shown), (See CAB SECTION for Breakdown)	
34	1001114283	1	EVAPORATOR/HEATER UNIT, (includes items 101 thru 121) (Prior to SN 0160045463)	B
34	1001142350	1	EVAPORATOR/HEATER UNIT, (includes items 101 thru 121) (SN 0160045463 to Present)	C
35	82033995	32 in	HOSE	
101	70022552	1	CASE TOP	
102	70022553	1	CASE BOTTOM	
103	70022805	1	BLOWER MOTOR	
104	91404439	1	BLOWER WHEEL (Prior to SN 0160045463)	
104	N.S.S.	1	BLOWER WHEEL (SN 0160045463 to Present)	
105	70022876	1	HEATER/COOLER COIL	
106	91514272	1	VALVE	
107	70022877	1	BULB CLAMP	
108	80363103	1	O-RING, #8	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
109	N.S.S.	1	3 HOLE DEFROST TOP	
110	70022878	2	LEG (Prior to SN 0160045463)	
110	N.S.S.	2	LEG (SN 0160045463 to Present)	
111	91514265	1	THERMOSTAT (Prior to SN 0160045463)	
111	70024386	1	THERMOSTAT (SN 0160045463 to Present)	
112	70020639	2	HEATER HOSE (Prior to SN 0160045463)	
112	N.S.S.	2	HEATER HOSE (SN 0160045463 to Present)	
113	N.S.S.	2	HEATER SPLICE	
114	70022879	4	WORM GEAR CLAMP	
115	70022555	1	AIR RESTRICTER, (not shown)	
116	91514296	1	METRO SWITCH, (not shown)	
117	70020640	1	12 VOLT RELAY, (not shown)	
118	70022556	3 ft	DRAIN HOSE, 3/8, (not shown)	
119	70022557	1	DRAIN ELBOW, 3/8, (not shown)	
120	70022558	1	DRAIN TEE, 3/8, (not shown)	
121	80363099	1	PRESSURE SWITCH	
201	70020643	1	CASE TOP	
202	70022880	1	CASE BOTTOM	
203	70020644	1	OVERHEAD CONDENSER COIL	
204	70022881	2	MOUNTING BRACKET	
205	91514270	1	TUBE ASSY	
206	91514266	1	DRIER	
207	70022882	1	DRIER MOUNT	
208	80363102	1	O-RING	
209	70022883	1	HOSE CLAMP	
210	70020645	1	TUBE ASSY	
211	70020646	1	TUBE ASSY	
212	70022884	4	HOSE CLAMP	
213	70022885	3	CUSHION CLAMP	
214	70022886	1	HOLE PLUG	
215	91514295	2	CONDENSER FAN	
216	70020647	1	HARNESS PIGTAIL	
217	80363103	1	O-RING, #8	
218	70022891	2 ft	CLOSED CELL FOAM	
219	70020648	4	WELL NUT, (not shown)	
220	70022887	8	NYLON INSERT NUT, 1/4-20, (not shown)	
221	70020649	1	RELAY, (not shown)	
222	70022890	4	HEX HD CAPSCREW, 3/8-16X3, (not shown)	
223	70020650	1	HARNESS, (not shown)	
224	70022888	4	FLAT WASHER, 3/8, (not shown)	
225	70022889	4	LOCKWASHER, 3/8, (not shown)	
301	70023109	1	WHITE MOTOR GASKET, (not shown)	
302	N.S.S.	2	BLACK FOAM, (not shown)	
303	70023110	1	RESISTOR, (not shown)	
304	N.S.S.	1	BOLT, (not shown)	
305	N.S.S.	1	NUT, (not shown)	
306	N.S.S.	1	CORK TAPE, (not shown)	
307	N.S.S.	2	CORK TAPE, (not shown)	
308	80363034	22	HOSE HEATER (not shown)	
K1	70022804	1	BLOWER MOTOR KIT, (includes items 103 & 301 thru 307)	

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FIGURE 12-53. WINCH



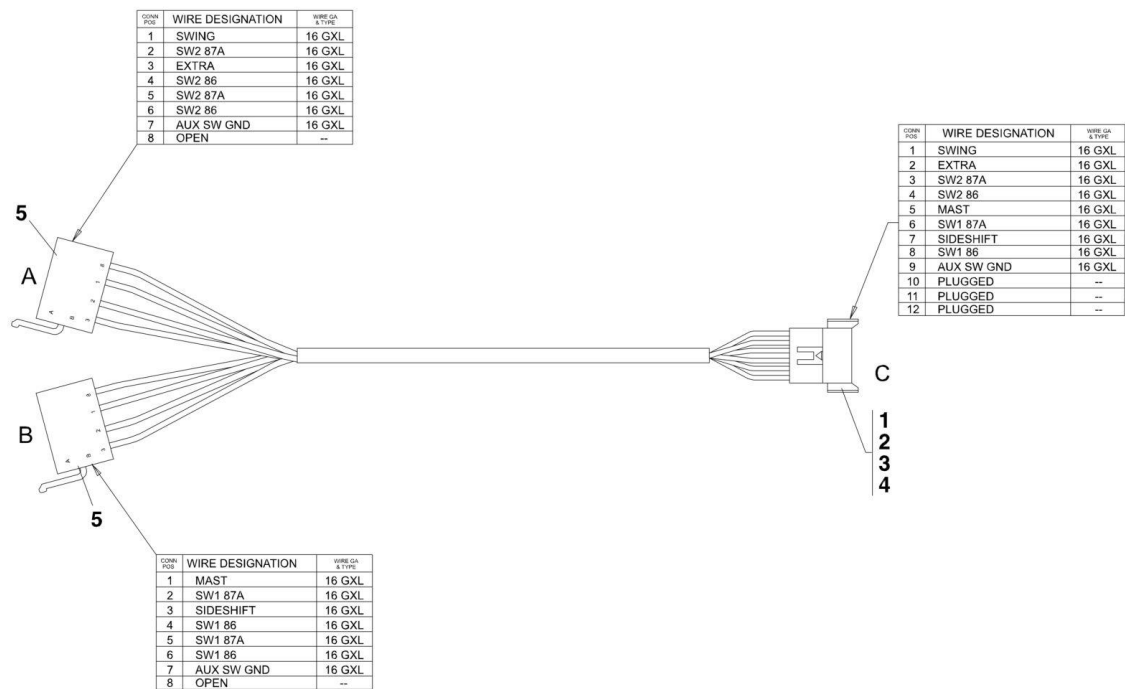
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FIGURE 12-53. WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114795	1	WINCH WITH MOTOR, (includes all items)	A
1	70023747	1	MOTOR ADAPTER	
2	70023748	5	PAPER MAT	
3	70023749	1	COUPLING SHAFT	
4	70023750	2	BEARING HOUSING	
5	70023751	1	WORM	
6	70023752	1	GEAR HOUSING	
7	70023753	2	FRICTION PLATE	
8	70023754	1	OVERRUNNING CLUTCH	
9	70023755	1	FRICTION DISK	
10	70023756	1	BRAKE	
11	70023757	1	BRAKE SHELL	
12	70023758	2	PAPER MAT	
13	70023759	1	END CAP	
14	70023760	1	WORM GEAR	
15	70023761	1	PAPER MAT2	
16	70023762	1	CENTER BRACKET	
17	70023763	1	WINCH DRUM	
18	70023764	1	WORM GEAR SHAFT	
19	70023765	1	END BRACKET	
20	70023766	1	LEFT END CAP	
21	70023767	4	END CAP BOLT	
22	70023768	4	END CAP WASHER	
23	70023769	3	SELF LUBRICATING BEARING	
24	70023770	4	THRUST WASHER	
25	70023771	1	SHAFT BOLT	
26	70023772	4	DRUM SHAFT KEY	
27	70023773	1	CENTER BRACKET SEAL	
28	70023774	18	SPRING WASHER	
29	70023775	6	CENTER BRACKET BOLT	
30	70023776	2	DRUM SHAFT KEY	
31	70023777	10	GEAR COVER WASHER	
32	70023778	4	GEAR COVER BOLT	
33	70023779	1	WORM SHAFT KEY1	
34	70023780	2	WORM SHAFT SEAL	
35	70023781	3	GEAR HOUSING BOLT	
36	70023782	3	GEAR HOUSING WASHER	
37	70023783	2	TAPERED ROLLER BEARING	
38	70023784	3	MOTOR COUPLER SCREW	
39	70023785	8	MOTOR ADAPTER BOLT	
40	70023786	1	MOTOR COUPLER KEY	
41	70023787	2	MOTOR BOLT	
42	70023788	2	MOTOR WASHER	
43	70023789	1	MOTOR	

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FIGURE 12-54. AUXILIARY ELECTRIC HARNESS



WIRE CHART						
WIRE DESIGNATION	WIRE COLOR/STRIPE	WIRE GAUGE	WIRE END A	WIRE END B	WIRE END C	REMARKS
AUX SW GND	BLACK	16	CARLINGSWITCH	CARLINGSWITCH	DEUTSCH DT	AUX SW GROUND
EXTRA	WHITE	16	CARLINGSWITCH		DEUTSCH DT	AUX EXTRA
MAST	WHITE	16		CARLINGSWITCH	DEUTSCH DT	MAST
SIDESHIFT	WHITE	16		CARLINGSWITCH	DEUTSCH DT	SIDESHIFT
SWING	WHITE	16	CARLINGSWITCH		DEUTSCH DT	SWING
SW1 86	DK GRN	16		CARLINGSWITCH 2X	DEUTSCH DT	AUX SW1 86
SW1 87A	DK GRN	16		CARLINGSWITCH 2X	DEUTSCH DT	AUX SW1 87A
SW2 86	DK GRN	16	CARLINGSWITCH 2X		DEUTSCH DT	AUX SW2 86
SW2 87A	DK GRN	16	CARLINGSWITCH 2X		DEUTSCH DT	AUX SW2 87A

PY2090

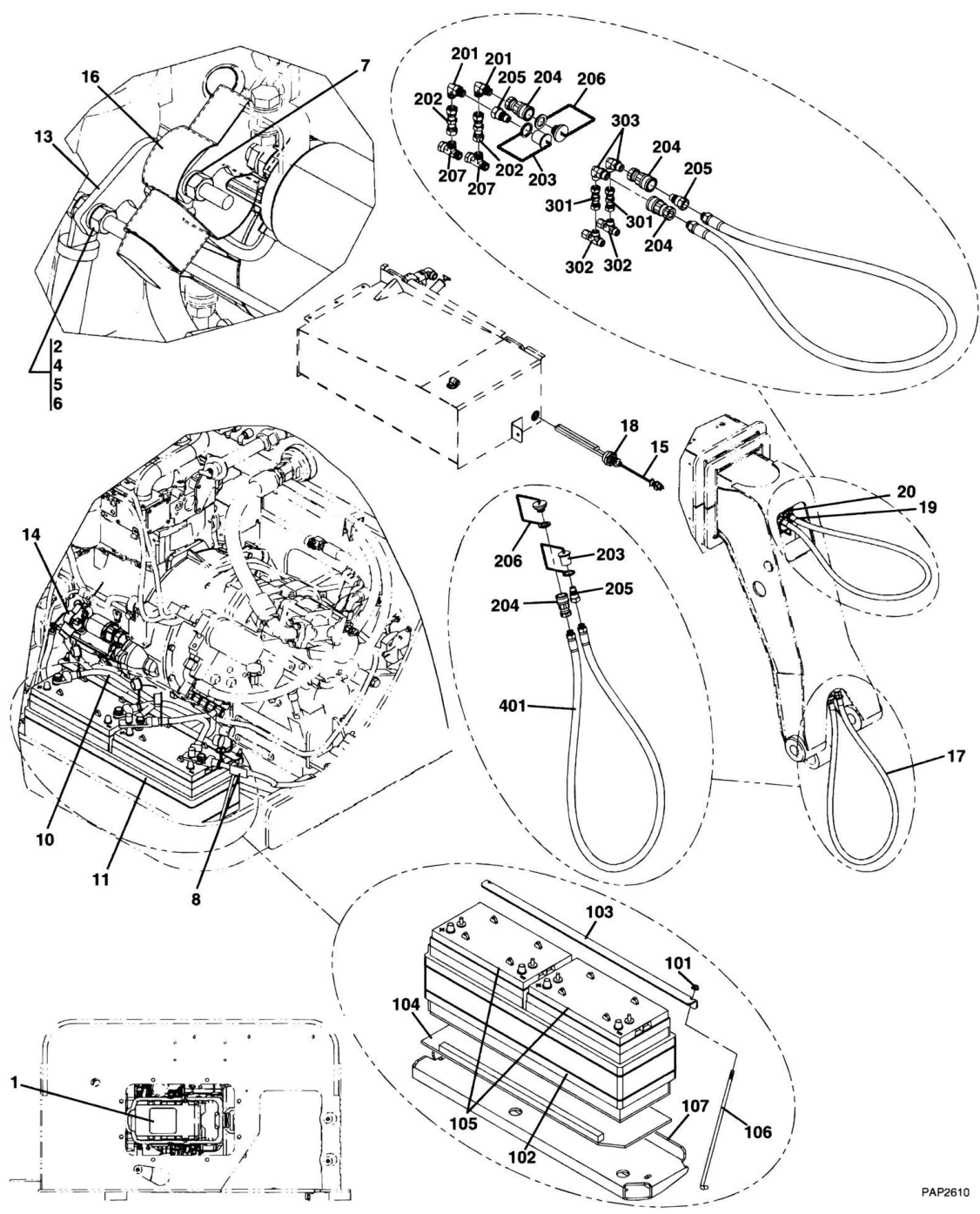
SECTION 12 - OPTIONS

FIGURE 12-54. AUXILIARY ELECTRIC HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563192	1	AUXILIARY ELECTRICAL HARNESS, (includes all items)	A
1	4460532	1	CONNECTOR	
2	80363179	1	LOCK	
3	77363228	1	CONTACT	
4	4460466	1	PLUG	
5	4460419	2	TERMINAL	

SECTION 12 - OPTIONS

FIGURE 12-55. ARCTIC PACKAGE (SN 0160037905 through 0160040674)



PAP2610

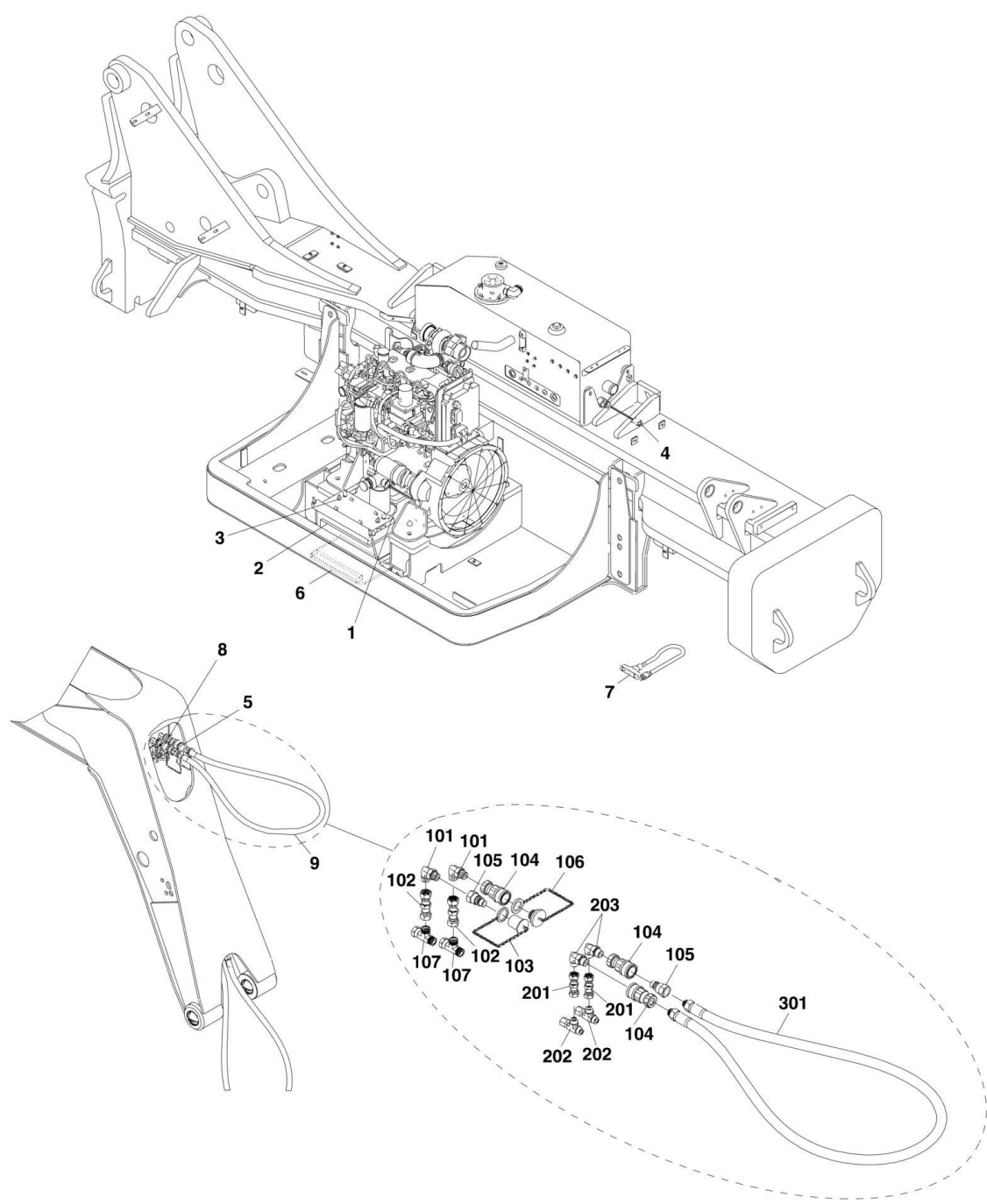
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FIGURE 12-55. ARCTIC PACKAGE (SN 0160037905 through 0160040674)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001105968	1	ARCTIC PACKAGE, (includes all items)	C
1	0252654	1	OIL PAN HEATER	
2	0760815	2	HEX HD CAPSCREW, M8X35, GR 8.8	
3	1060626	1	3 WAY EXTENSION CORD, (not shown)	
4	3290801	2	HEX NUT, M8X1.25	
5	4811900	2	WASHER, 8mm	
6	4831900	2	SPRING LOCKWASHER, 8mm	
7	8310046	2	LOCKWASHER	
8	1001001616	1	NEGATIVE BATTERY CABLE	
10	1001098843	1	NEGATIVE BATTERY CABLE JUMPER	
11	1001098904	1	ARCTIC DUAL BATTERY, (includes items 101 thru 107)	A
13	1001104797	2	STARTER PLATE	
14	1001121391	1	STARTER MOTOR, (12V, 4.2 KW)	
15	1001105886	1	IMMERSION HYDRAULIC HEATER	
16	1001106507	1	BOOT POSITION STARTER TERMINAL	
17	1001121460	2	RECIRC HOSE, (includes items 203 thru 206 & 401)	A
18	1001107835	1	ADAPTOR	
19	1001121459	1	TILT RECIR, (includes items 201 thru 207)	A
20	1001121458	1	TILT RECIR, (includes items 203 thru 206 & 301 thru 303)	A
101	77143006	2	WHIZ-LOCK NUT, 5/16-18	
102	1001097000	1	BATTERY HEATER	
103	1001098473	1	BRACKET	
104	1001098739	1	DUAL BATTERY INSULATE	
105	1001098762	2	BATTERY, EV12A 1375 CCA	
106	1001098824	2	BATTERY HOLD DOWN BOLT	
107	1001099104	1	DUAL BATTERY MOUNT	
201	2130808	2	ELBOW, 90	
202	2172408	2	FITTING, 8-8 FG	
203	91043126	1	DUST CAP	
204	91403413	1	FEMALE QUICK DISCONNECT	
205	91403414	1	MALE QUICK DISCONNECT	
206	91043125	1	PLUG	
207	2170708	2	SWIVEL NUT RUN TEE, 1/2 TUBE	
301	2172406	2	FITTING, 6-6 FG	
302	2170706	2	SWIVEL NUT RUN TEE, 3/8 TUBE	
303	2130608	2	CONNECTOR, (includes o-ring)	
401	1001121454	1	HOSE ASSY	

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FIGURE 12-56. ARCTIC PACKAGE (SN 0160040675 to Present)



PAP11480

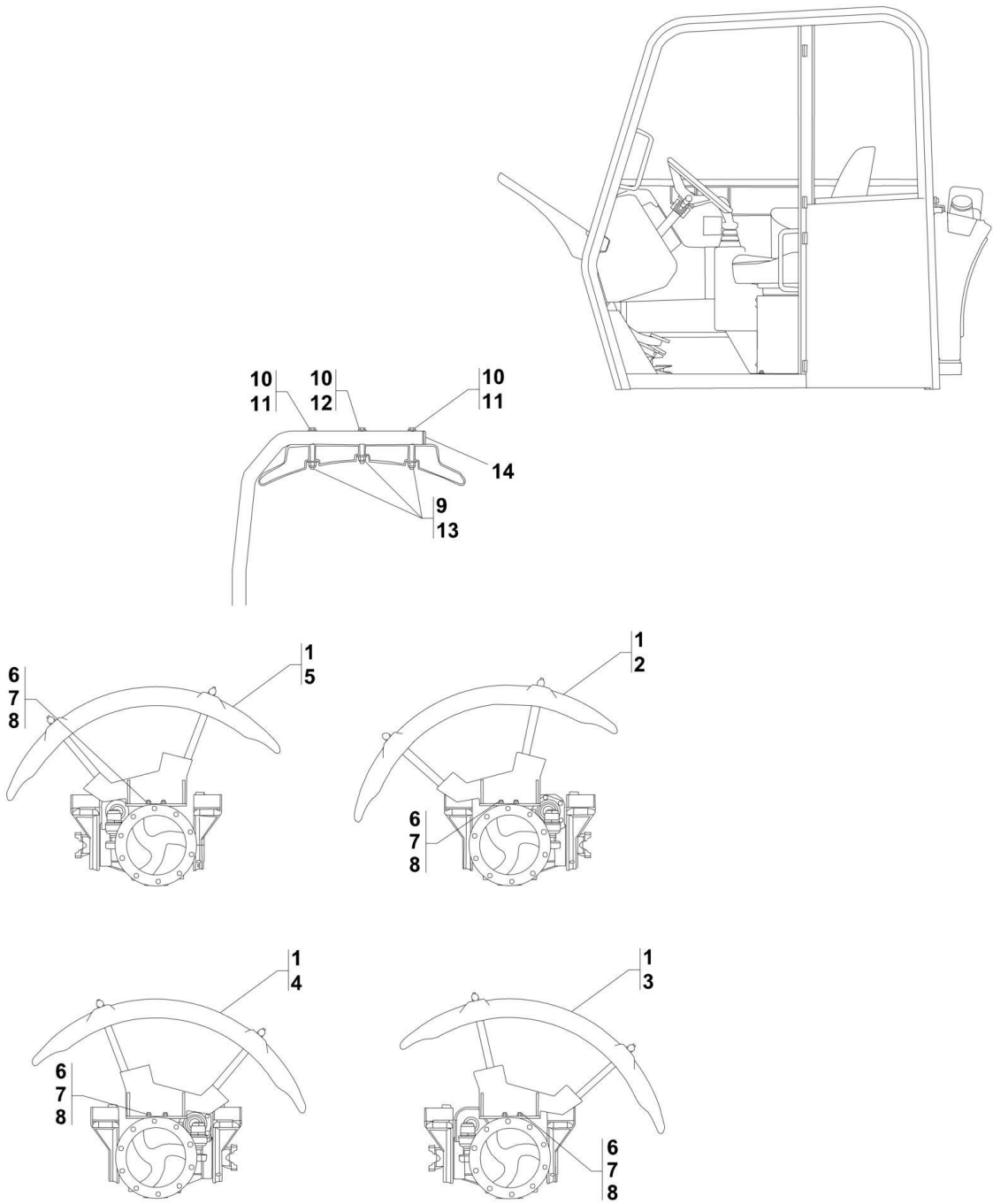
SECTION 12 - OPTIONS

FIGURE 12-56. ARCTIC PACKAGE (SN 0160040675 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130470	1	ARCTIC PACKAGE, (includes all items)	A
1	0252654	1	OIL PAN HEATER	
2	1001093564	1	BATTERY HEATER	
3	1001098762	1	BATTERY, EV12A 1375 CCA	
4	1001105886	1	IMMERSION HYDRAULIC HEATER	
5	1001121458	1	TILT RECIR, (includes items 103 thru 106 & 201 thru 203)	A
6	1001115878	1	BATTERY BASE INSULATE	
7	1060626	1	3 WAY EXTENSION CORD	
8	1001121459	1	TILT RECIR, (includes items 101 thru 107)	A
9	1001121460	2	RECIRC HOSE, (includes items 103 thru 106 & 301)	A
101	2130808	2	ELBOW, 90	
102	2172408	2	FITTING, 8-8 FG	
103	91043126	1	DUST CAP	
104	91403413	1	FEMALE QUICK DISCONNECT	
105	91403414	1	MALE QUICK DISCONNECT	
106	91043125	1	PLUG	
107	2170708	2	SWIVEL NUT RUN TEE, 1/2 TUBE	
201	2172406	2	FITTING, 6-6 FG	
202	2170706	2	SWIVEL NUT RUN TEE, 3/8 TUBE	
203	2130608	2	CONNECTOR, (includes o-ring)	
301	1001121454	1	HOSE ASSY	

SECTION 12 - OPTIONS

FIGURE 12-57. FENDER INSTALLATION



PAP11290

FIGURE 12-57. FENDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91515071	1	FENDER INSTALLATION, (includes all items)	A
1	91473126	4	ROTOMOLD FENDER	
2	91516043	1	RH REAR FENDER MOUNT	
3	91516041	1	LH REAR FENDER MOUNT	
4	91516040	1	LH FRONT FENDER MOUNT	
5	91516042	1	RH FRONT FENDER MOUNT	
6	91514118	16	FENDER STUD, (torque to 94-104 lb-ft)	
7	91513266	16	HEX NUT, M12X1.25	
8	88551013	16	LOCKWASHER, 1/2	
9	88561003	24	FLAT WASHER, 5/16	
10	88561108	24	FLAT WASHER, 5/16	
11	88201030	16	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	
12	88201028	8	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	
13	88521205	24	LOCKNUT, 5/16-18	
14	3520176	8	PLUG, 1.25	

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 ASSEMBLY	
	84719755	2	Tilt Cyl Hose (Prior to SN 0160037671)	
	1001103293	2	Tilt Cyl Hose (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
	1001001336	2	Tilt Cyl Hose (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	84719754	2	Boom Hose (Prior to SN 0160037671)	
	1001102977	2	Boom Hose (SN 0160037671 through 0160040674, Excluding 0160040468 and 0160040672)	
	1001001335	1	Boom Hose (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	3580346	1	Hose Sheave	
	91403530	10	Bearing Pad	
	91403531	2	Bearing Pad	
	91403534	2	Bearing Pad	
	1001117654	2	Bearing Pad	
	91513074	2	Bearing Pad	
	1001117656	8	Bearing Pad	
	1001117658	2	Bearing Pad	
	91401212	AR	Shim, 0.0598	
	91401213	AR	Shim, 0.0359	
	91401218	AR	Shim, 0.0598	
	91401219	AR	Shim, 0.0359	
	91401456	AR	Shim, 0.0598	
	91401457	AR	Shim, 0.0359	
	91361049	AR	Shim, 0.0598	
	91511096	AR	Shim, 0.0359	
	91511098	AR	Shim, 0.0598	
	91511099	AR	Shim, 0.0359	
	91511101	AR	Shim, 0.0598	
	91511102	AR	Shim, 0.0359	
	91401223	10	Spacer, 0.0598	
	91401224	2	Spacer, 0.0598	
	91401225	2	Spacer, 0.0598	
	91401450	2	Spacer, 0.0598	
	91511094	2	Spacer, 0.0598	
	91511097	4	Spacer, 0.0598	
	91511100	8	Spacer, 0.0598	
	91513023	1	Bearing Pad, Push Beam (Prior to SN 0160037671)	
	1001102974	1	Bearing Pad, Push Beam (SN 0160037671 to Present)	
	91403404	1	Quick Switch Pin (Prior to SN 160037671)	
	91403407	1	Quick Release Pin (Prior to SN 160037671)	
	1001105441	1	Quick Switch Lock Pin (SN 0160037671 to Present)	
	2940074	1	Latch	

SECTION 13 - RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ENGINE	
	91415064	1	250 Hour Filter Kit, (JOHN DEERE) (SN 0193001 through 0160003121)	
	1001128960	1	1000 Hour Filter Kit, (JOHN DEERE) (SN 0193001 through 0160003121)	
	91415084	1	250 Hour Filter Kit, (JOHN DEERE) (SN 0160003210 to Present)	
	2915176	1	1000 Hour Filter Kit, (JOHN DEERE) (SN 0160003210 to Present)	
	1001001532	1	250 Hour Filter Kit, (PERKINS)	
	1001113602	1	1000 Hour Filter Kit, (PERKINS)	
	1001133662	1	250 Hour Filter Kit, (CUMMINS)	
	1001133663	1	1000 Hour Filter Kit, (CUMMINS)	
	91403513	1	Fuel Tank Cap, Non-Locking (Prior to SN 0160020150)	
	91403514	1	Fuel Tank Cap, Locking (Prior to SN 0160020150)	
	1001093641	1	Fuel Tank Cap, Non-Locking (SN 0160020150 to Present)	
	1001102657	1	Fuel Tank Cap, Locking (SN 0160020150 to Present)	
	91513159	1	Fan, (JOHN DEERE)	
	7029784	1	Fan, (PERKINS)	
	1001098559	1	Fan, (CUMMINS)	
	91404086	1	Alternator Belt, (JOHN DEERE)	
	7029779	1	Fan Belt, (PERKINS)	
	70021852	1	Fan Belt, (CUMMINS)	
	91474171	1	Dipstick, (JOHN DEERE)	
	7029894	1	Dipstick, (PERKINS)	
	70021854	1	Dipstick, (CUMMINS)	
		Ref	DRIVE TRAIN	
	91473031	1	FNR Shifter, 4-Speed (Prior to SN 0160040675, Excluding 0160040468 and 016004062)	
	91563226	1	FNR Shifter, 4-Speed (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	7028718	4	Wheel End Seal	
	91514111	4	Wheel End Bushing	
	7029300	4	Wheel Hub Seal	
	8036433	4	Universal Joint Kit	
		Ref	HYDRAULIC SYSTEM	
	91513211	1	Boom Joystick without Tilt (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	1001130050	1	Boom Joystick without Tilt (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	91513212	1	Boom Joystick with Tilt (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	1001130045	1	Boom Joystick with Tilt (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	91404010	1	Boom Joystick Grip without Tilt (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	91404325	1	Boom Joystick Grip with Tilt (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	91514020	1	Lift Cylinder Seal Kit (Prior to SN 0160033316)	
	70022061	1	Lift Cylinder Seal Kit (SN 0160033316 to Present)	
	91514036	1	Crowd Cylinder Seal Kit (Prior to SN 0160033222)	
	70022858	1	Crowd Cylinder Seal Kit (SN 0160033222 to Present)	
	91514050	1	Tilt Cylinder Seal Kit (SN 0193001 through 0160007141)	
	91514281	1	Tilt Cylinder Seal Kit (SN 0160007142 through 0160033297)	
	70024013	1	Tilt Cylinder Seal Kit (SN 0160033316 to Present)	

SECTION 13 - RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91514050	1	Compensating Cylinder Seal Kit (SN 0193001 through 0160007141)	
	91514285	1	Compensating Cylinder Seal Kit (SN 0160007176 through 0160033297)	
	70024012	1	Compensating Cylinder Seal Kit (SN 0160033316 to Present)	
	91514063	1	Sway Cylinder Seal Kit (Prior to SN 0160033222)	
	70022864	1	Sway Cylinder Seal Kit (SN 0160033222 to Present)	
	70024217	2	Outrigger Cylinder Seal Kit (G10-43A) (Prior to SN 0160039840)	
	70023899	2	Outrigger Cylinder Seal Kit (G10-43A) (SN 0160039840 to Present)	
	2120168	1	Hydraulic Filter Element (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	91513077	1	Tank Filter (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	1001097732	1	Tank Filter (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	1340021	1	Breather	
	7024441	1	Fluid Level Gauge (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	91563136	1	Fluid Level Gauge (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	91084022	1	Bar Gauge (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
		Ref	ELECTRICAL	
	91143314	1	Water Temp Sender, (JOHN DEERE)	
	91473115	1	Transmission Temp Switch (SN 0193001 through 0160002051)	
	91563121	1	Transmission Temp Switch (SN 0160002054 to Present)	
	24741047	1	Oil Press Switch, (JOHN DEERE)	
	91143315	1	Oil Press Sender	
	91403609	1	Fuel Level Sender (Prior to SN 0160040675, Excluding 0160040468 and 0160040672)	
	1001093388	NLA	Fuel Level Sender, (no longer available, use 1001148837 for replacement) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	1001148837	1	Fuel Level Sender, (gaskets included)	
	77383377	1	Starter Relay	
	91403574	1	Back-up Alarm (Prior to SN 0160018152)	
	8270621	1	Back-up Alarm (SN 0160018152 to Present)	
	91033317	1	Ignition Switch	
	1001108293	1	Alternator, (JOHN DEERE)	
	7029783	1	Alternator, (PERKINS)	
	70021849	1	Alternator, (CUMMINS)	
	1001108291	1	Regulator, (JOHN DEERE)	
	91415083	1	Starter Kit (SN 0193001 through 0160006660)	
	7026921	1	Starter, (JOHN DEERE) (SN 0160006686 to Present)	
	7029782	1	Starter, (PERKINS) (SN 0160020943 through 0160040674, Including 0160020803, 0160020823 and 0160020824, Excluding 0160040468 and 0160040672)	
	70021850	1	Starter, (CUMMINS) (SN 0160040675 to Present, Including 0160040468 and 0160040672)	
	91414040	1	Starter Solenoid (SN 0193001 through 0160040674)	
	91414040	1	Starter Solenoid (SN 0160040675 to Present)	
	91143357	1	Horn	
		Ref	MISC	
	77384578	1	Ignition Key	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	80964051	1	Cab Door Key	
	91404275	1	Engine Cover Key	
	80904003	1	Hydraulic Test Kit	
	24604083	1	ORS O-Ring Kit	
	90214009	1	O-Ring Kit	
	91514003	1	Owner/Operator Manual (Prior to SN 0160005444)	
	31200150	1	Operation and Safety Manual (SN 0160005444 to Present)	
	91514002	1	Service Manual (Prior to SN 0160005444)	
	31200151	1	Service Manual (SN 0160005444 to Present)	
		Ref	SPECIAL TOOLS	
	10837075	1	Drive Plate Kit, 13.5 IN, Dana Transmission	
	70021975	1	Gauge, T11, Dana Drive Axle	
	2901443	1	Analyzer Kit, (includes cable)	
	1060633	1	Cable, Analyzer	

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