



NAVAIR AG-T56EV-IPB-000
Navy P/N 6642123
Model EIRV

Revised
15 April 2014

Illustrated Parts Manual

Model Engine Installation & Removal Vehicle (EIRV)

JLG P/N
31200422



EFFECTIVITY PAGE

May 18, 2009 - A - Original Issue of Manual

June 2, 2009 - B - Revised manual to add service part numbers for white & black painted parts

July 31, 2009 - C - Revised manual to add Hydraulic Jib

September 10, 2009 - D - Revised boom assembly. Updated wear pads in section two & added hose clamp in section eight.

January 1, 2010 - E - Revised manual. Added Military covers.

August 15, 2010 - F - Revised manual.

April 15, 2014 - G - Revised Manual

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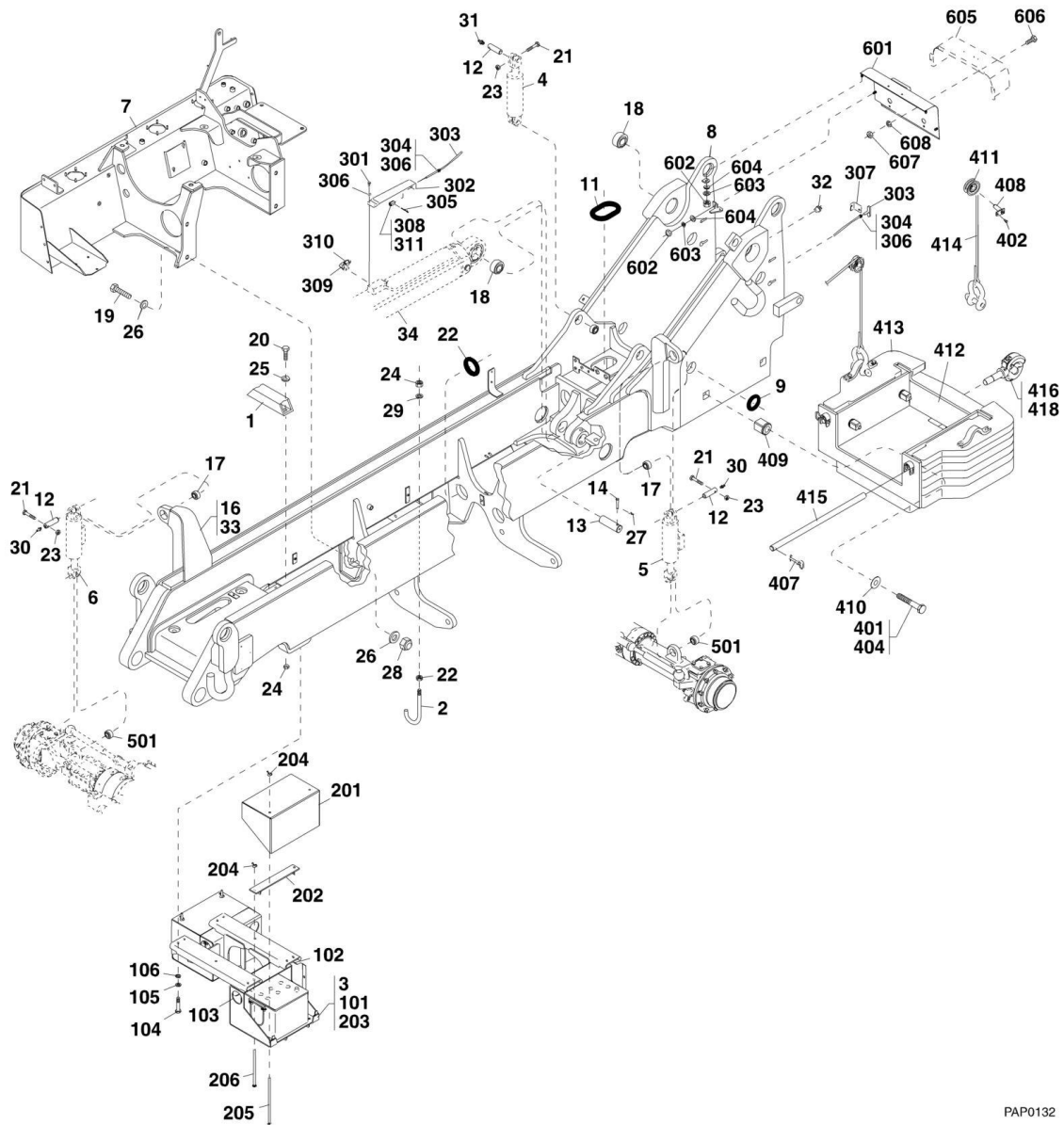
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SECTION 1 - FRAME AND ATTACHING PARTS

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FIGURE 1-1. FRAME SHROUDING AND TRIM



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SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. FRAME SHROUDING AND TRIM

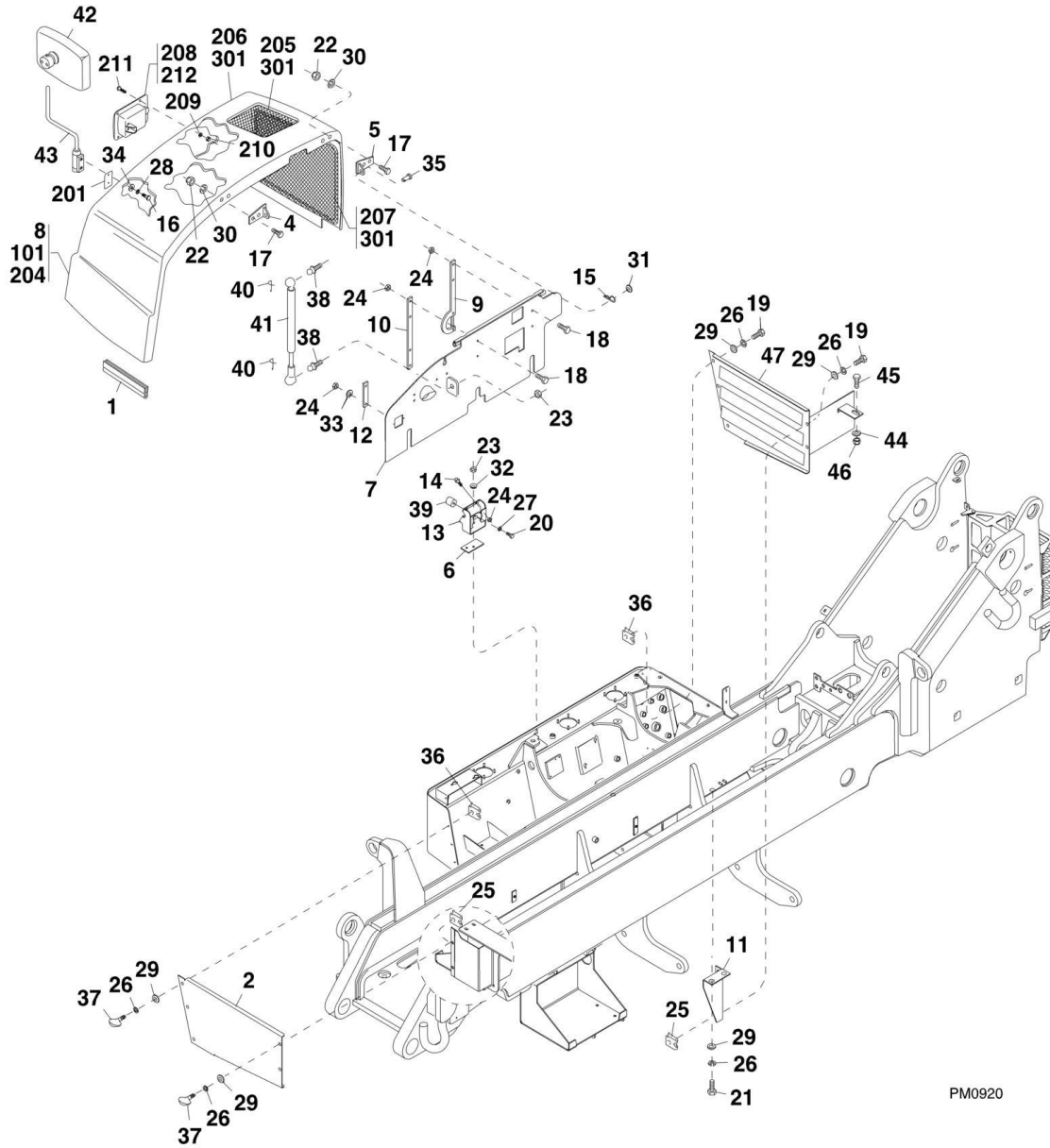
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101598	Ref	FRAME INSTALLATION, (not available to order, see items 1 thru 34 for service)	A
1	5752022	1	BUMPER	AC
2	6603712	2	DRIVESHAFT HOOK	
3	6623682	1	ADDITIONAL ELECTRICAL INSTALLATION, (not available to order, see items 101 thru 106 for service)	
4		Ref	SLAVE CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
5		Ref	STABILTRAK CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
6		Ref	FRAME SWAY CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
7	6623883W	1	ENGINE MOUNT	
8	6623985W	1	MAIN FRAME	
9	7124471	3	CONDUIT	
10	7124491	6	CONDUIT	
11	7125851	4	CONDUIT	
12	7137142	8	FRAME SWAY/SLAVE CYLINDER PIN	
13	7139324	1	LIFT/LOWER CYLINDER PIN	
14	7139502	1	KEEPER PIN	
15	7139534	AR	CONDUIT	
16	7139935	1	RUBBER SHEET	
17	8050001	4	SELF-ALIGN, BEARING, 1-1/2	
18	8050007	2	SELF-ALIGN BEARING	
19	8303538	4	HEX HD CAPSCREW, 1-8X3, GR8, (torque to 680 lb-ft)	
20	8303693	2	HEX HD CAPSCREW, 1/2-13X2-1/2	
21	8303752	8	HEX HD CAPSCREW, 5/16-18X3-1/2	
22	8305012	2	HEX NUT, 1/2-13	
23	8305626	8	LOCKNUT, 5/16-18	
24	8305644	4	LOCKNUT, 1/2-13	
25	8307112	2	WASHER, 1/2	
26	8310061	8	WASHER, 1	
27	8310211	1	COTTER PIN	
28	8310481	4	LOCKNUT, 1-8	
29	8310578	2	WASHER, 1/2	
30	8520001	4	LUBE FITTING, 1/8	
31	8520003	4	LUBE FITTING, 90	
32	8520013	2	LUBE FITTING, 1/8	
33	8526060	AR	ADHESIVE	
34		Ref	LIFT/LOWER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
101	6623745	1	BATTERY BOX ASSY, (includes items 201 thru 206)	AA
102	7125871	1	CONDUIT	
103	7300505	3	CONDUIT	
104	8303697	8	HEX HD CAPSCREW, 5/16-18X3/4, GR5, (torque to 12-21 lb-ft)	
105	8307004	8	LOCKWASHER, 5/16	
106	10701402	8	WASHER, 1/4	
201	6623417W	2	BATTERY COVER	
202	6623418	2	BATTERY HOLD DOWN	
203	6623633W	1	BATTERY SUPPORT	
204	8310167	8	WING NUT, 3/8-16	

SECTION 1 - FRAME AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
205	8310233	4	CARRIAGE BOLT, 3/8-16X12, GR2	B
206	8310316	4	CARRIAGE BOLT, 3/8-16X9-1/2, GR2	
	1001101599	1	RELEASE CABLE ASSEMBLY, (includes items 301 thru 311)	
301	0641405	2	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
302	1001109087	1	BRACKET, CABLE MOUNTING	
303	1060644	1	CABLE, RELEASE	
304	3321402	4	JAM NUT, 1/4-28, GR2	
305	3450405	1	COTTER PIN, 1/8X1-1/4	
306	4711400	6	WASHER, 1/4	
307	1001101872	1	BRACKET, RELEASE CABLE	
308	1001101908	1	ADAPTER, CABLE	D
309		Ref	ADAPTOR, 90, 6-8, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
310		Ref	VALVE, CHECK, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
311	0100011	AR	LOCTITE, #242, (apply to item 308)	
	1001100783	Ref	COUNTERWEIGHT INSTALLATION, (not available to order, see items 401 thru 418 for service)	
401	0100011	AR	LOCTITE #242	
402	0641605	1	HEX HD CAPSCREW, 3/8-16X5/8	
404	0682620	4	HEX HD CAPSCREW, 1-8X2-1/2	
407	6618281	2	HITCH PIN	
408	6618392	2	SHEAVE PIN	
409	7139335	4	COUNTERWEIGHT BUSHING	AB
410	8310061	4	WASHER, 1	
411	8962605	2	WIRE ROPE SHEAVE	
412	1001100784	1	COUNTERWEIGHT FRAME	
413	1001102951W	1	COUNTERWEIGHT	
414	1001100791	1	CABLE ASSY	
415	1001100793	2	COUNTERWEIGHT PIN	
416	8382016B	1	PINTLE HOOK HITCH	
418	8522012	AR	ANTI-SEIZE LUBE, (apply to item 416)	
501		Ref	SELF-ALIGN, BEARING, (See AXLE AND WHEEL MOUNTING for Breakdown)	
	6623501	Ref	HEADER INSTALLATION, (not available to order, see items 601 thru 608 for service)	AB
601	6623378W	1	HEADER	
602	8305004	4	HEX NUT, 1/4-20 NC	
603	8307002	4	LOCKWASHER, 1/4	
604	8307202	4	WASHER, 1/4	
605	6623602W	1	GUARD, REAR BOOM WORKLIGHTS	
606	8303620	4	SCREW, 3/8-16 NC X 1, GR5	
607	8305008	4	HEX NUT, 3/8-16 NC	
608	8307005	4	LOCKWASHER, 3/8	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. ENGINE HOOD AND COVERS



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SECTION 1 - FRAME AND ATTACHING PARTS**FIGURE 1-2. ENGINE HOOD AND COVERS**

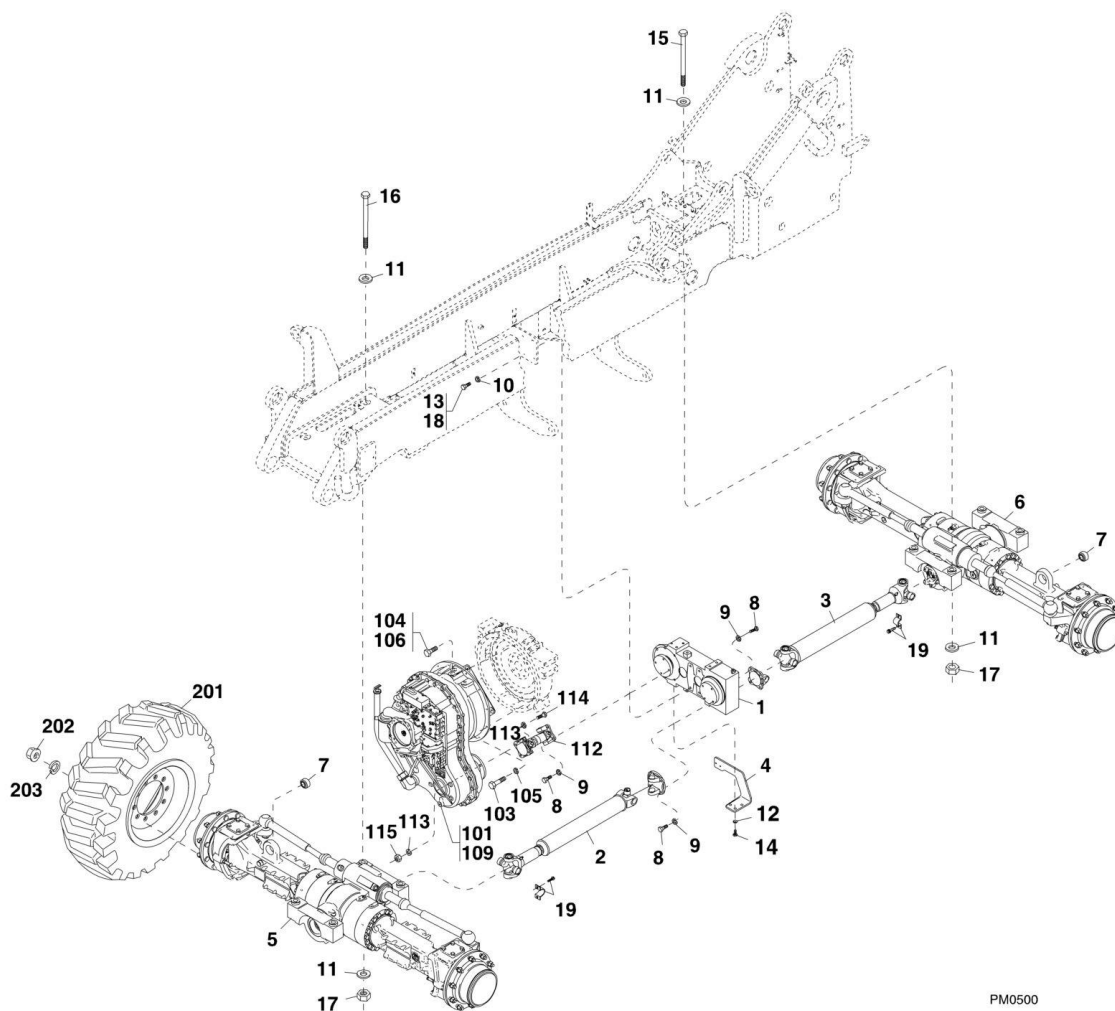
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623685	Ref	COVERS INSTALLATION, (not available to order, see items 1 thru 47 for service)	D
1	6620751	1	MOLDING	AA
2	6623351W	1	ENGINE COVER, (front)	
4	6623591W	1	HOOD HINGE, (front)	
5	6623592W	1	HOOD HINGE, (rear)	
6	6623593	1	SHIM	
7	6623870W	1	ENGINE PANEL	
8	6623901	1	ENGINE HOOD, (includes item 101)	
9	6623896	1	ENGINE PANEL STRUT PLATE	
10	7138682	1	STIFFENER	
11	7138829	1	COVER BRACKET, (rear)	
12	7138843	1	STIFFNER	
13	6623906	1	STRIKER BRACKET	
14	7139999	2	DOWEL PIN	
15	8302470	2	COTTER PIN	
16	8303544	2	HEX HD CAPSCREW, M6X1X20MM, PC8.8	
17	8303615	4	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5	
18	8303626	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
19	8303670	5	HEX HD CAPSCREW, 5/16-18X1	
20	8303681	1	HEX HD CAPSCREW, 3/8-16X1	
21	8303744	2	HEX HD CAPSCREW, 5/16-18X1/2	
22	8305624	4	LOCKNUT, 1/4-20	
23	8305626	6	LOCKNUT, 5/16-18	
24	8305644	12	LOCKNUT, 1/2-13	
25	8305906	4	RETAINER NUT, 5/16-18	
26	8307004	12	LOCKWASHER, 5/16	
27	8307005	1	LOCKWASHER, 3/8	
28	8307024	2	LOCKWASHER, M6	
29	8307106	12	WASHER, 5/16	
30	8307109	4	WASHER, 1/4	
31	8307110	2	WASHER, 3/8	
32	8307203	2	WASHER, 5/16	
33	8307206	2	WASHER, 1/2	
34	8307219	2	WASHER, M6	
35	8310334	2	CLEVIS PIN, 3/8X1-3/8	
36	8310374	6	RETAINER NUT, 5/16-18	
37	8310582	5	THUMB SCREW, 5/16-18X1	
38	8340035	4	BALL STUD, 13MM	
39	8660012	1	BUMPER	
40	8702157	4	CLIP SPRING	
41	8702160	2	GAS SPRING	
42	8866514	1	MIRROR	
43	8866515	1	MIRROR ARM ASSY	
44	8307112	2	WASHER, 1/2	
45	8303625	1	HEX HD CAPSCREW, 12-13X1-1/4, GR5	
46	8305012	1	NUT, 1/2-13	
47	6623873W	1	ENGINE COVER, (rear)	
101	6623899W	1	ENGINE HOOD, (includes item 201 thru 212)	AA
201	6623588	1	MIRROR PLATE	

SECTION 1 - FRAME AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
204	6623902	1	ENGINE HOOD SHELL	
205	6623903	1	TOP GRILLE PANEL	
206	6623904	1	SIDE GRILLE PANEL	
207	7129493	1	RADIATOR GRILLE	
208	7139998	1	LATCH ALIGNMENT PLATE	
209	8307111	4	WASHER, #10	
210	8310085	4	LOCKNUT, #10-24	
211	8310583	4	BUTTON HD CAPSCREW, #10-24X7/8	
212	8342425	1	OUTSIDE DOOR HANDLE	
301	7027772	1	ADHESIVE KIT, (includes 3 tubes and applicator), (apply to items 205 thru 207)	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. AXLE AND WHEEL MOUNTING



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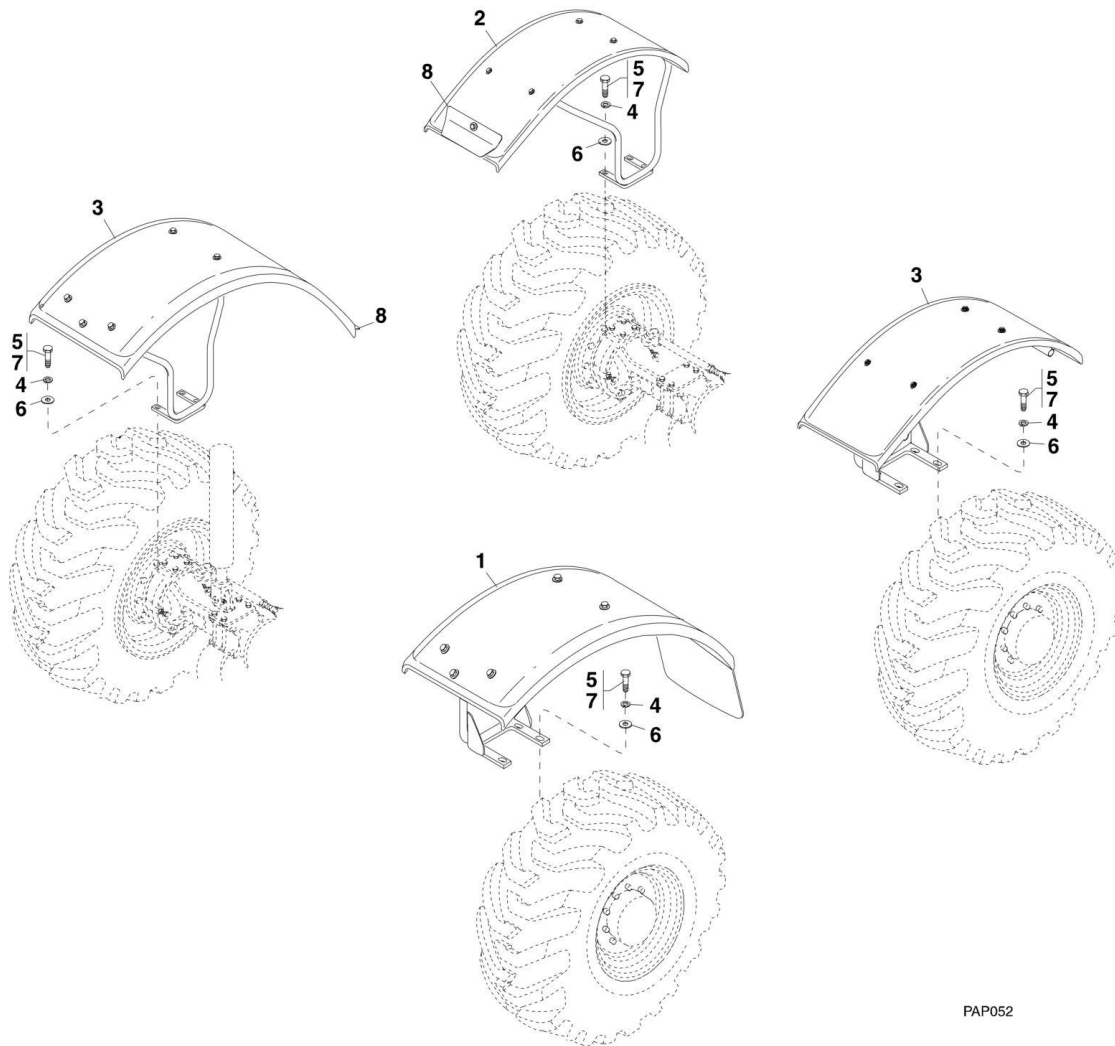
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. AXLE AND WHEEL MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623977	Ref	AXLE INSTALLATION, (not available to order, see items 1 thru 19 for service)	AA
1		Ref	TRANSFER BOX, (See DRIVE TRAIN SECTION for Breakdown)	
2		Ref	TRANSFER BOX TO FRONT AXLE DRIVE SHAFT, (See DRIVE TRAIN SECTION for Breakdown)	
3		Ref	TRANSFER BOX TO REAR AXLE DRIVE SHAFT, (See DRIVE TRAIN SECTION for Breakdown)	
4	6623981	1	OIL FILTER BRACKET	
5		Ref	AXLE FRONT, (See DRIVE TRAIN SECTION for Breakdown)	
6		Ref	AXLE, REAR, (See DRIVE TRAIN SECTION for Breakdown)	
7	8050001	2	SELF-ALIGN, BEARING, 1-1/2	
8	8303790	12	HEX HD CAPSCREW, M12X1.75X30MM, PC8.8, (torque to 95-105 lb-ft)	
9	8307025	12	LOCKWASHER, M12	
10	8307049	4	LOCKWASHER, M16	
11	8310061	16	WASHER, 1	
12	8310089	3	LOCKWASHER, M14	
13	8310215	4	HEX HD CAPSCREW, M16-2X40MM, PC8.8, (loctite and torque to 145 lb-ft)	
14	8310248	3	HEX HD CAPSCREW, M14-2X30MM, PC8.8, (torque to 102 lb-ft)	
15	8310479	4	HEX HD CAPSCREW, 1-8X11, GR8, (torque to 600-680 lb-ft)	
16	8310480	4	HEX HD CAPSCREW, 1-8X14, GR8, (torque to 600-680 lb-ft)	
17	8310481	8	LOCKNUT, 1-8	
18	8526007	AR	LOCTITE, (apply to item 13)	
19	8880218	2	STRAP KIT, (torque to 60 lb-ft)	
	6623692	Ref	TRANSMISSION INSTALLATION, (not available to order, see items 101 thru 115 for service)	E
101		Ref	TRANSMISSION HYDRAULICS, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
103	8303769	12	HEX HD CAPSCREW, M10-1,5X45MM	
104	8303798	4	HEX HD CAPSCREW, M10-1,5X25MM	
105	8307023	12	LOCKWASHER, M10	
106	8526007	AR	LOCTITE, (apply to item 104)	
109		Ref	TRANSMISSION - 4 SPEED, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
112		Ref	TRANSMISSION TO TRANSFER BOX DRIVE SHAFT, (See DRIVE TRAIN SECTION for Breakdown)	
113	8307007	8	LOCKWASHER, 1/2	
114	8310084	8	HEX HD CAPSCREW, 1/2-20X2, GR8	
115	8310464	8	NUT, 1/2-20	
201		Ref	TIRE AND WHEEL ASSY, NON-DIRECTIONAL, (See DRIVE TRAIN SECTION for Breakdown)	
202	8786570	40	LUG NUT	
203	8786571	40	SPRING LOCK WASHER	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-4. FENDER ASSEMBLY



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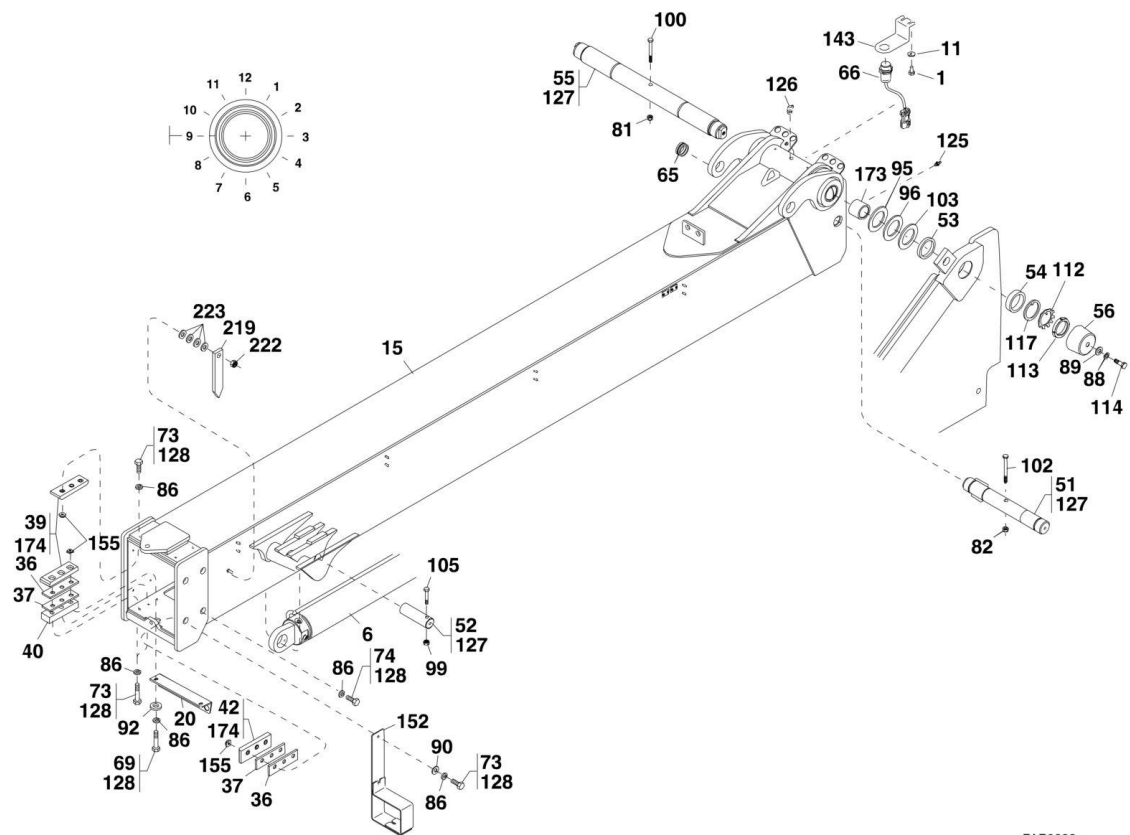
SECTION 1 - FRAME AND ATTACHING PARTS**FIGURE 1-4. FENDER ASSEMBLY**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623578	1	FENDER INSTALLATION, (not available to order, see items 1 thru 8 for service)	C
1	6623579	1	LEFT FRONT FENDER ASSY	
2	6623665	1	RIGHT REAR FENDER ASSY	
3	6623666	2	RIGHT FRONT AND LEFT REAR FENDER ASSY	
4	8307025	16	LOCKWASHER, M12	
5	8310164	16	HEX HD CAPSCREW, M12X1.75X40MM, PC8.8, (apply loctite and torque to 64 lb-ft)	
6	8310308	16	WASHER, 1/2	
7	8526007	1	LOCTITE, (apply to item 5)	
8	1001100925	2	FENDER BRACKET	

SECTION 2 - BOOM

SECTION 2 - BOOM

FIGURE 2-1. FIRST BOOM SECTION



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FIGURE 2-1. FIRST BOOM SECTION

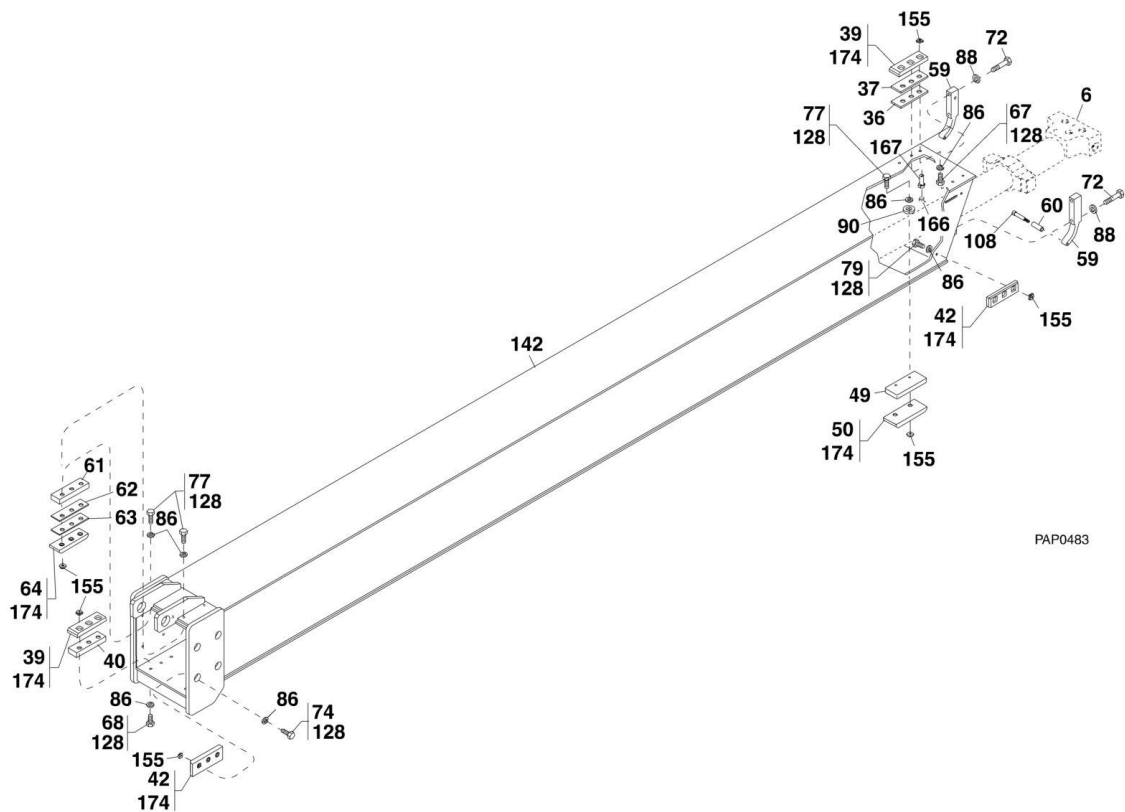
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101639W	1	BOOM ASSEMBLY	G
1	0641404	2	HEX HD CAPSCREW, 1/4-20X1/2, GR5	
6		Ref	EXTEND/RETRACT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11	4711400	2	WASHER, 1/4	
15	1001099776	1	FIRST BOOM SECTION	
20	6623499	1	BULKHEAD BOOM TUBE BRACKET	
36	7126172	AR	SHIM, .13	
37	7126182	AR	SHIM, .07	
39	1001116335	4	WEAR PAD	
40	7135442	2	WEAR PAD SPACER	
42	7136592	4	WEAR PAD	
51	7139158	1	EXTEND CYLINDER PIN	
52	7139325	1	HOIST CYLINDER PIN	
53	7139330	2	SPACER	
54	7139331	2	SPACER	
55	7139405	1	BOOM PIVOT PIN	
56	7139554	2	BOOM PIVOT PIN CAP	
65	8050001	2	SELF ALIGN BEARING	
66	8223237	1	SWITCH, PROXIMITY, BOOM ANGLE	
69	8303622	4	HEX HD CAPSCREW, 3/8-16X2, GR5, (torque to 29-34 lb-ft)	
73	8303679	11	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5, (torque to 29-34 lb-ft)	
74	8303681	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 29-34 lb-ft)	
81	8305643	1	LOCKNUT, 5/8-11	
82	8305644	1	LOCKNUT, 1/2-13	
86	8307005	18	LOCKWASHER, 3/8	
88	8307010	2	LOCKWASHER, 3/4	
89	8307104	2	WASHER, 3/4	
90	8307110	4	WASHER, 3/8	
92	8307204	2	WASHER, 3/8	
95	8307912	2	SHIM, 3.06X0.06X4.75	
96	8307913	2	SHIM, 3.06X0.12X4.75	
99	8310067	1	LOCKNUT, 3/4-10	
100	8310076	1	HEX HD CAPSCREW, 5/8-11X7, GR5	
102	8310209	1	HEX HD CAPSCREW, 1/2-13X6, GR5	
103	8310259	2	SHIM, 3.06X0.09X4.75	
105	8310295	1	HEX HD CAPSCREW, 3/4-10X5-1/2, GR5	
112	8310531	2	LOCKWASHER	
113	8310532	2	BEARING NUT	
114	8310549	2	FLANGE HD CAPSCREW, 3/4-10X1, GR5	
117	8310589	2	WASHER	
125	8520013	2	LUBE FITTING, STRAIGHT	
126	8520021	2	LUBE FITTING, 90	
127	8522012	AR	ANTI-SEIZE LUBE, (apply to items 51, 52, 55 & 212)	
128	8526007	AR	THREAD LOCKING COMPOUND, (apply to items 68, 69, 73 & 74)	
143	1001101738	2	BRACKET, SWITCH MOUNT	
152		Ref	WORKLAMP BRACKET, (See ELECTRICAL SECTION for Breakdown)	
155	7135432	18	WEAR PAD INSERT	
173	7137772	2	BOOM PIVOT BUSHING	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
174	1001116761	AR	BOOM GREASE LUBE	
219	7075611	1	BOOM ANGLE INDICATOR POINTER	
222	8305647	1	LOCKNUT, 7/16-14	
223	8307113	5	WASHER, 7/16	

SECTION 2 - BOOM

FIGURE 2-2. SECOND BOOM SECTION



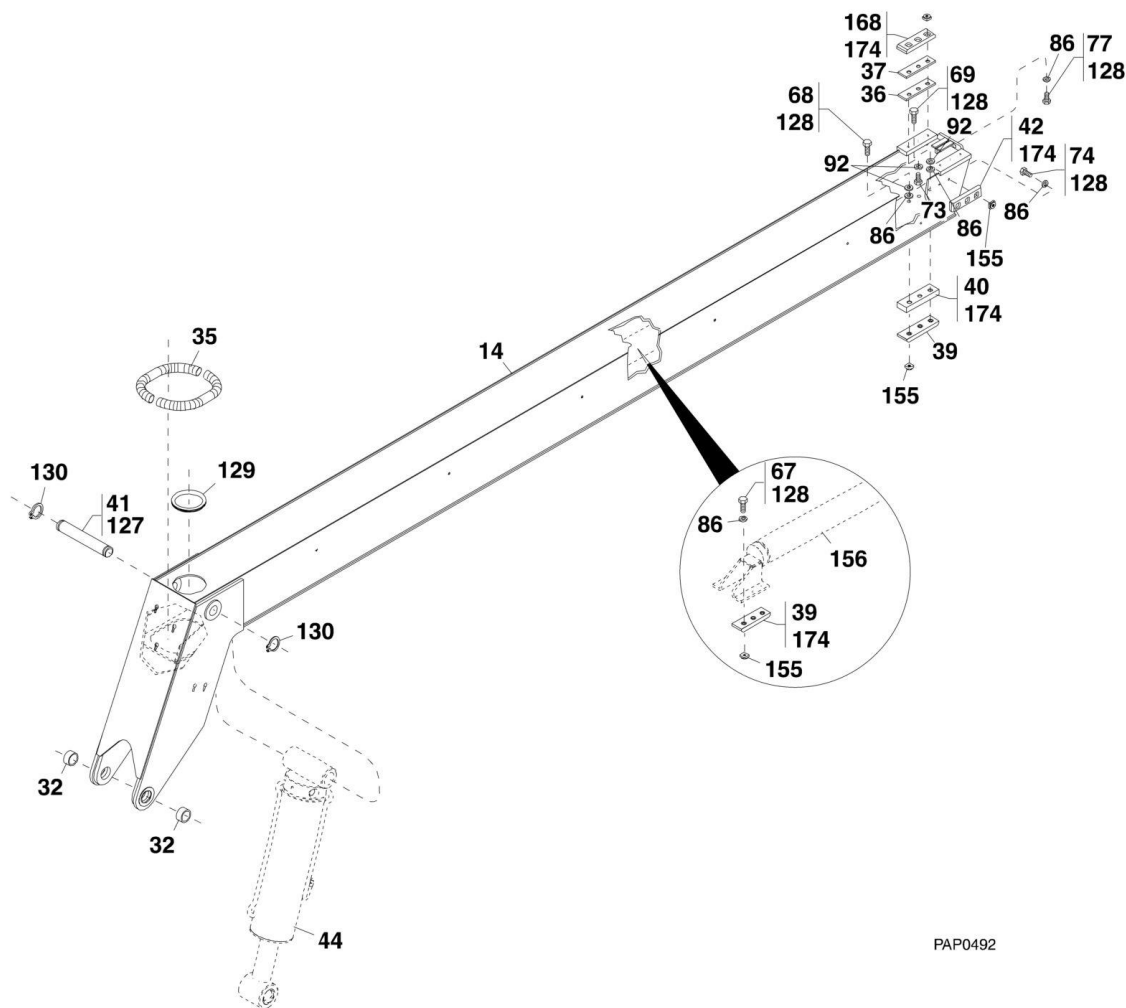
SECTION 2 - BOOM

FIGURE 2-2. SECOND BOOM SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6		Ref	EXTEND/RETRACT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
36	7126172	AR	SHIM, .13	
37	7126182	AR	SHIM, .07	
39	1001116335	4	WEAR PAD	
40	7135442	2	WEAR PAD SPACER	
42	7136592	8	WEAR PAD	
49	7139018	2	WEAR PAD SPACER	
50	1001116411	2	WEAR PAD	
59	7139780	2	EXTEND CYLINDER TRUNNION CLAMP	
60	7139781	2	LONG ROLLER	
61	7139975	2	WEAR PAD SPACER	
62	7139976	AR	WEAR PAD SHIM	
63	7139977	AR	WEAR PAD SHIM	
64	1001116410	2	WEAR PAD	
67	8303620	4	HEX HD CAPSCREW, 3/8-16X1, GR5, (torque to 29-34 lb-ft)	
68	8303621	6	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5, (torque to 29-34 lb-ft)	
72	8303641	4	HEX HD CAPSCREW, 3/4-10X4-1/2, GR5	
74	8303681	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 29-34 lb-ft)	
77	8303771	8	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5, (torque to 29-34 lb-ft)	
79	8304660	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 29-34 lb-ft)	
86	8307005	36	LOCKWASHER, 3/8	
88	8307010	4	LOCKWASHER, 3/4	
90	8307110	8	WASHER, 3/8	
108	8310514	2	SOCKET HD SHOULDER BOLT, 1/2X1-3/4X3/8-16	
128	8526007	AR	THREAD LOCKING COMPOUND, (apply to items 67,74,77 & 79)	
142	1001099777	1	SECOND BOOM SECTION	
155	7135432	36	WEAR PAD INSERT	
166	88671025	2	GREASE FITTING	
167	1001116329	2	SPECIAL BOLT, (torque to 15-17 ft-lbs)	
174	1001116761	AR	BOOM GREASE LUBE	

SECTION 2 - BOOM

FIGURE 2-3. THIRD BOOM SECTION



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FIGURE 2-3. THIRD BOOM SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
14	6623318W	1	THIRD BOOM SECTION	A
32	7085542	2	BUSHING, QUICK ATTACH PIVOT	
35	7124301	2	CONDUIT	
36	7126172	AR	SHIM, .13	
37	7126182	AR	SHIM, .07	
39	1001116335	3	WEAR PAD	
40	7135442	2	WEAR PAD SPACER	
41	7136322	1	ATTACHMENT TILT CYLINDER BASE PIN	
42	7136592	4	WEAR PAD	
44		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
67	8303620	6	HEX HD CAPSCREW, 3/8-16X1, GR.5, (torque to 29-34 lb-ft)	
68	8303621	2	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5, (torque to 29-34 lb-ft)	
69	8303622	2	HEX HD CAPSCREW, 3/8-16X2, GR5, (torque to 29-34 lb-ft)	
73	8303679	2	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5, (torque to 29-34 lb-ft)	
74	8303681	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 29-34 lb-ft)	
77	8303771	4	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5, (torque to 29-34 lb-ft)	
86	8307005	18	LOCKWASHER, 3/8	
92	8307204	6	WASHER, 3/8	
127	8522012	AR	ANTI-SEIZE LUBE, (apply to item 41)	
128	8526007	AR	LOCTITE, (apply to items 67,68,69,73,74 & 77)	
129	8582427	1	TRIM	
130	8642224	2	RETAINING RING, 2	
155	7135432	18	WEAR PAD INSERT	
156		Ref	EXTEND CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
168	1001116336	2	WEAR PAD ASSY	
168	1001116334	2	WEAR PAD	
168	7135432	6	WEAR PAD INSERT	
168	8520001	4	GREASE FITTING	
174	1001116761	AR	BOOM GREASE LUBE	

SECTION 2 - BOOM

FIGURE 2-4. BOOM EXTEND CHAINS

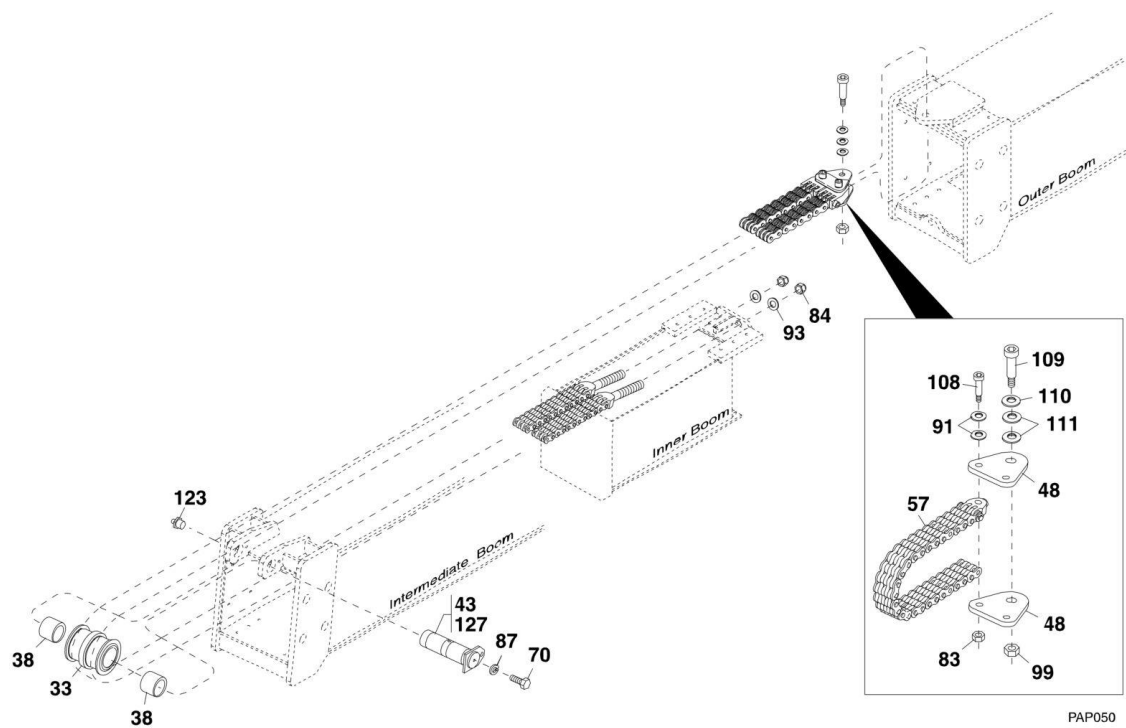


FIGURE 2-4. BOOM EXTEND CHAINS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
33	7114112	1	EXTEND CHAIN SHEAVE	
38	7126662	2	CHAIN SHEAVE BUSHING	
43	7137082	1	EXTEND CHAIN SHEAVE PIN	
48	7138991	2	EXTEND CHAIN YOKE	
57	7139694	2	EXTEND CHAIN AND CLEVIS ASSY	
70	8303624	1	HEX HD CAPSCREW, 1/2-13X1	
83	8305645	2	LOCKNUT, 3/8-16	
84	8305646	2	LOCKNUT, 3/4-16	
87	8307007	1	LOCKWASHER, 1/2	
91	8307112	4	WASHER, 1/2	
93	8307703	2	WASHER, 3/4	
99	8310067	1	LOCKNUT, 3/4-10	
108	8310514	2	SOCKET HD SHOULDER BOLT, 1/2X1-3/4X3/8-16	
109	8310515	1	SOCKET HD SHOULDER BOLT, 1X1-3/4X3/4-10	
110	8310516	1	WASHER, 1X.045X1-1/2	
111	8310517	2	WASHER, 1X.075X1-1/2	
123	8520001	1	LUBE FITTING, 1/8	
127	8522012	AR	ANTI-SEIZE LUBE, (apply to item 43)	

SECTION 2 - BOOM

FIGURE 2-5. BOOM RETRACT CHAIN

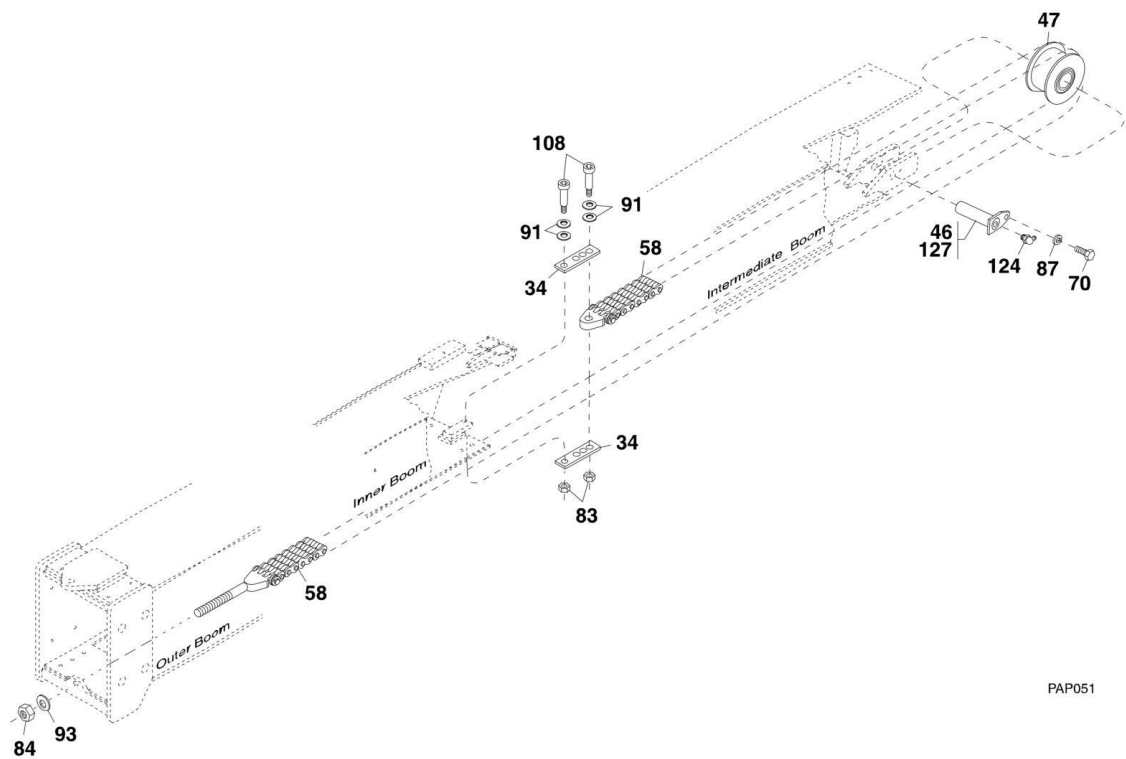
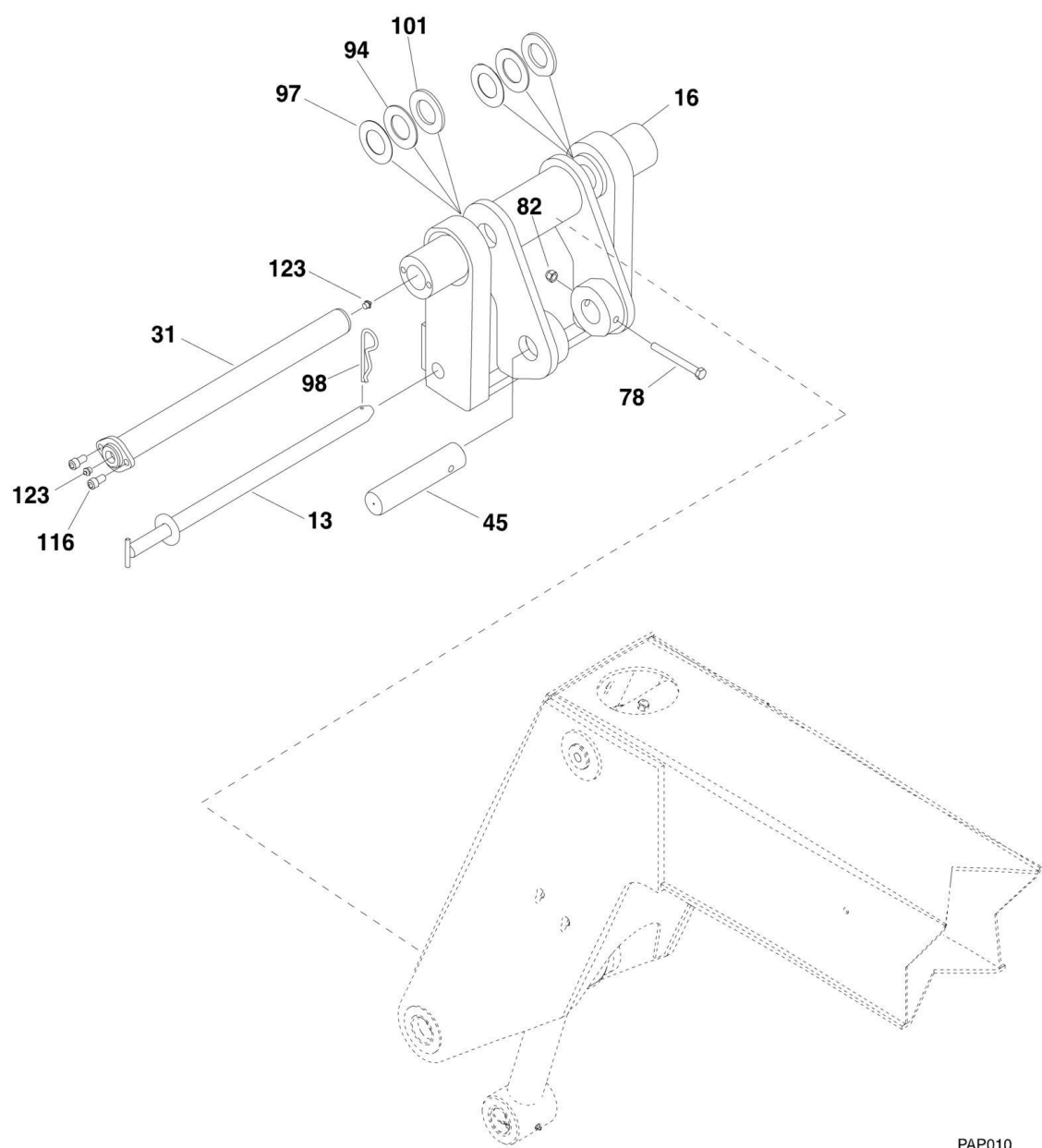


FIGURE 2-5. BOOM RETRACT CHAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	7121531	2	RETRACT CHAIN ANCHOR LINK	
46	7138977	1	RETRACT CHAIN SHEAVE PIN	
47	7138986	1	RETRACT CHAIN SHEAVE	
58	7139695	1	RETRACT CHAIN AND CLEVIS ASSY	
70	8303624	1	HEX HD CAPSCREW, 1/2-13X1	
83	8305645	2	LOCKNUT, 3/8-16	
84	8305646	1	LOCKNUT, 3/4-16	
87	8307007	1	LOCKWASHER, 1/2	
91	8307112	4	WASHER, 1/2	
93	8307703	1	WASHER, 3/4	
108	8310514	2	SOCKET HD SHOULDER BOLT, 1/2X1-3/4X3/8-16	
124	8520003	1	LUBE FITTING, 90	
127	8522012	AR	ANTI-SEIZE LUBE, (apply to item 46)	

SECTION 2 - BOOM

FIGURE 2-6. QUICK ATTACH ASSY



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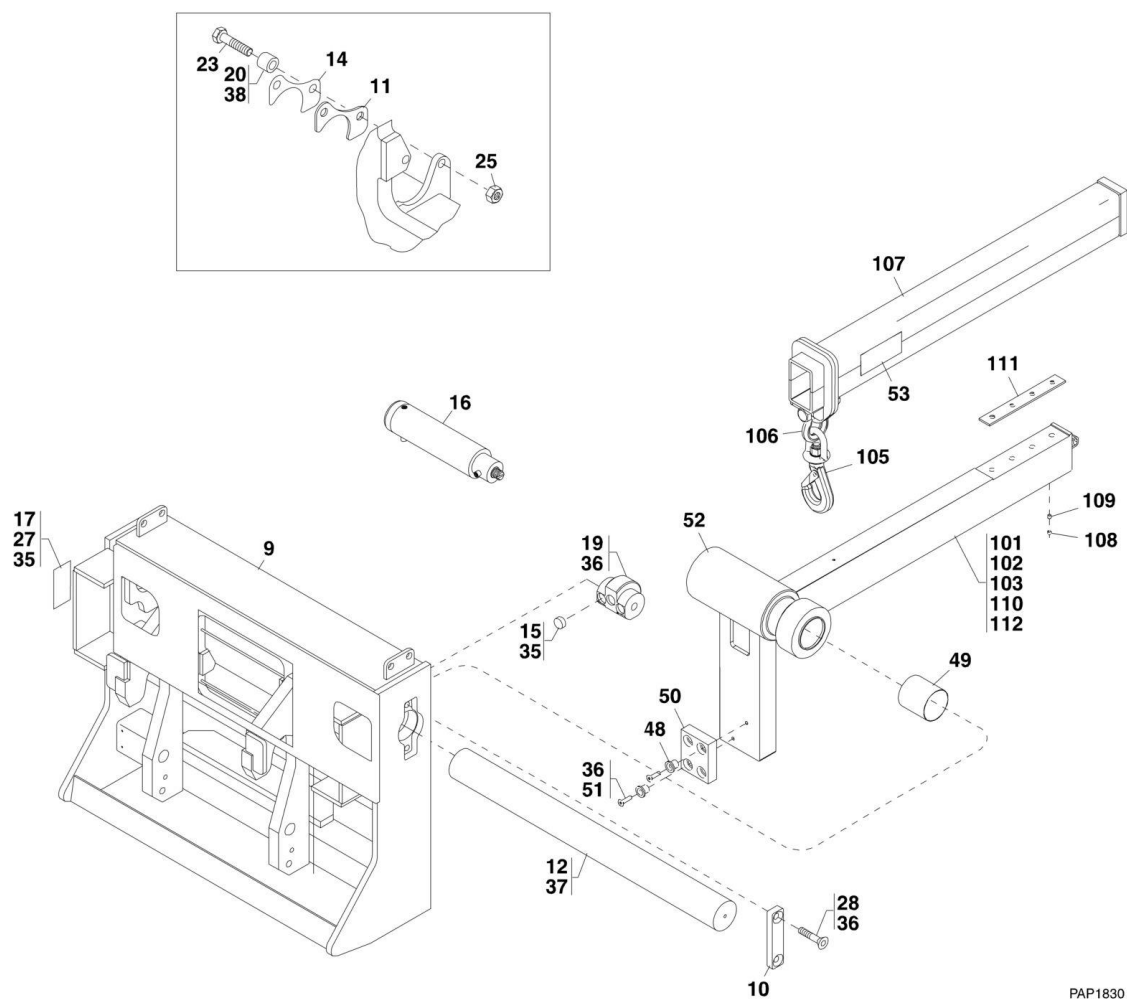
FIGURE 2-6. QUICK ATTACH ASSY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
13	6617132	1	QUICK ATTACH PIN	
16	6623334	1	QUICK ATTACH WELDMENT	
31	6623558	1	CARRIAGE PIVOT PIN	
45	7138222	1	ATTACHMENT TILT CYLINDER PIN, ROD END	
78	8303772	1	HEX HD CAPSCREW, 1/2-13X5, GR5	
82	8305644	1	LOCKNUT, 1/2-13	
94	8307904	AR	SHIM, 2X.048X3	
97	8307918	AR	SHIM, 2X.134X3.5	
98	8310025	1	HAIRPIN COTTER PIN	
101	8310093	AR	SHIM, 2X.075X3.5	
116	8310579	2	HEX HD CAPSCREW, 1/2-13X1	
123	8520001	2	LUBE FITTING	

SECTION 3 - ATTACHMENTS

SECTION 3 - ATTACHMENTS

FIGURE 3-1. CARRIAGE ASSEMBLY WITH HYDRAULIC JIB



SECTION 3 - ATTACHMENTS

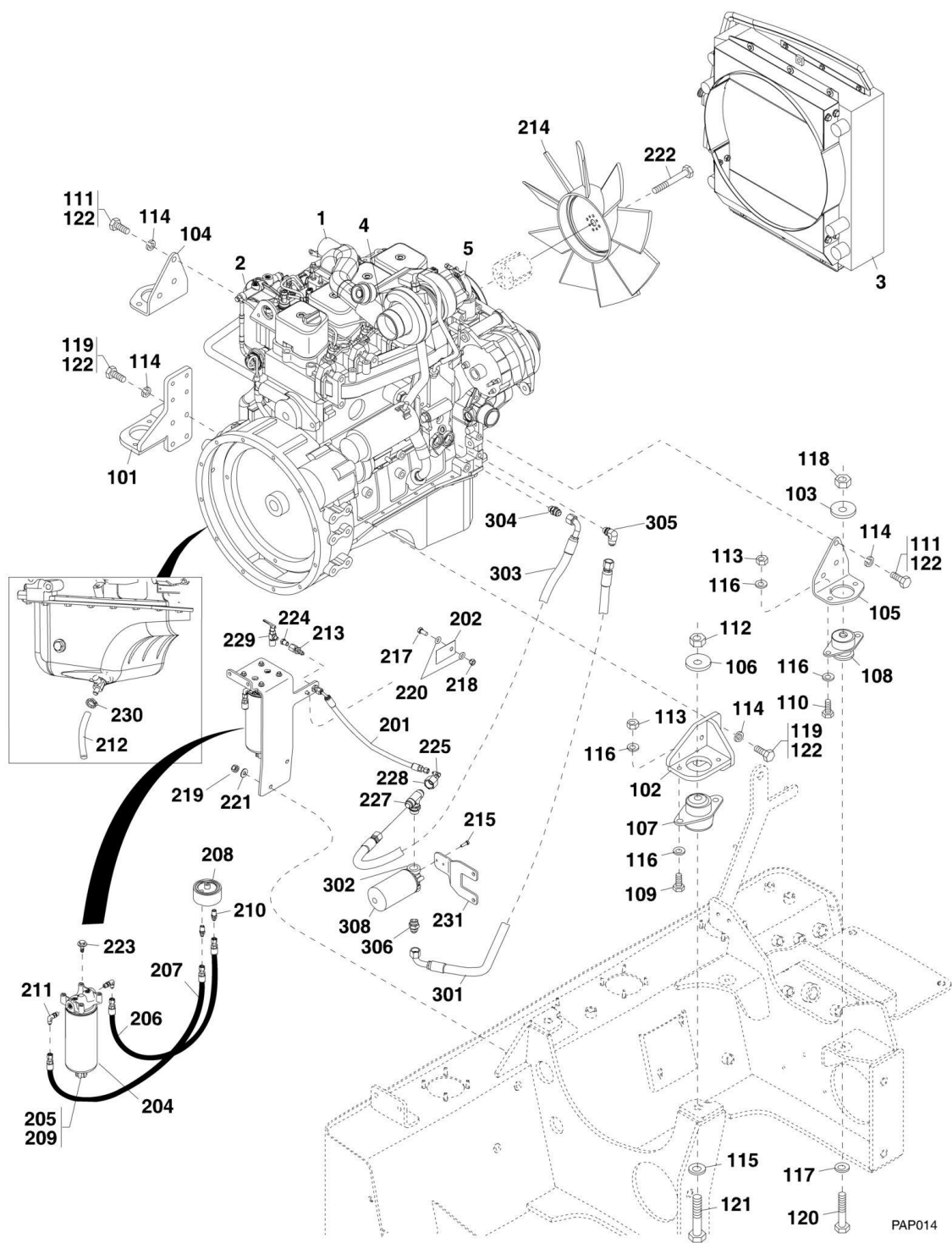
FIGURE 3-1. CARRIAGE ASSEMBLY WITH HYDRAULIC JIB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6624115	1	CARRIAGE ASSY WITH HYDRAULIC JIB, (includes items 9 thru 53)	F
9	1001102707W	1	11K CARRIAGE	
10	6616152	1	FORK SHAFT RETAINER	
11	6616372	3	CYLINDER RETAINER PLATE	
12	6616553	1	FORK SHAFT	
14	6617361	6	CYLINDER RETAINER SHIM	
15	6619882	6	PAWL PAD	
16		Ref	FORK SIDESHIFT CYLINDER, 11K, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
17		Ref	CAPACITY PLATE	
19	7115372	1	CYLINDER ROD END PAWL	
20	7116171	2	CYLINDER RETAINER SPACER CAM	
23	8303702	2	HEX HD CAPSCREW, 1/2-13X3	
25	8305644	2	LOCKNUT, 1/2-13	
27	8310176	4	METAL TACK	
28	8310261	2	SOCKET FLAT HD CAPSCREW, 3/4-10X1-1/2	
35	8526042	AR	ADHESIVE 3M, #90, (apply to item 15)	
36	8526051	AR	LOCTITE, #277, (apply to items 19, 28 & 45)	
37	8526415	AR	TEFLON LUBRICANT, (apply to item 12)	
38	8528048	AR	LOCTITE, SEALANT, (apply to item 20)	
48	6618622	2	WEAR PAD INSERT	
49	6616072	4	FIBERGLIDE BEARING	
50	6618632	1	WEAR PAD	
51	8310341	2	SOCKET FLAT HD CAPSCREW, 3/8-16X1-1/2	
52	1001115551	1	HYDRAULIC JIB ATTACHMENT, (includes items 101 thru 112)	A
53	4110422	1	DANGER DECAL	
101	70023042	1	PISTON, (includes seal)	
102	70023043	1	PISTON SEAL	
103	70023044	1	CYLINDER HEAD, (includes seal)	
104	70023045	1	CYLINDER HEAD WRENCH, (not shown)	
105	70023046	1	SAFETY HOOK WITH SWIVEL	
106	70023047	1	SHACKLE	
107	70023048	1	OUTER SLEEVE	
108	70023049	1	PLUG	
109	70023050	1	PLASTIC PLUG	
110	70023051	1	SPIRAL CLAMPING BUSH	
111	70023052	1	WEAR STRIP	
112	70023053	1	PISTON ROD	

SECTION 4 - ENGINE AND ATTACHING PARTS

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE MOUNTING



SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE MOUNTING

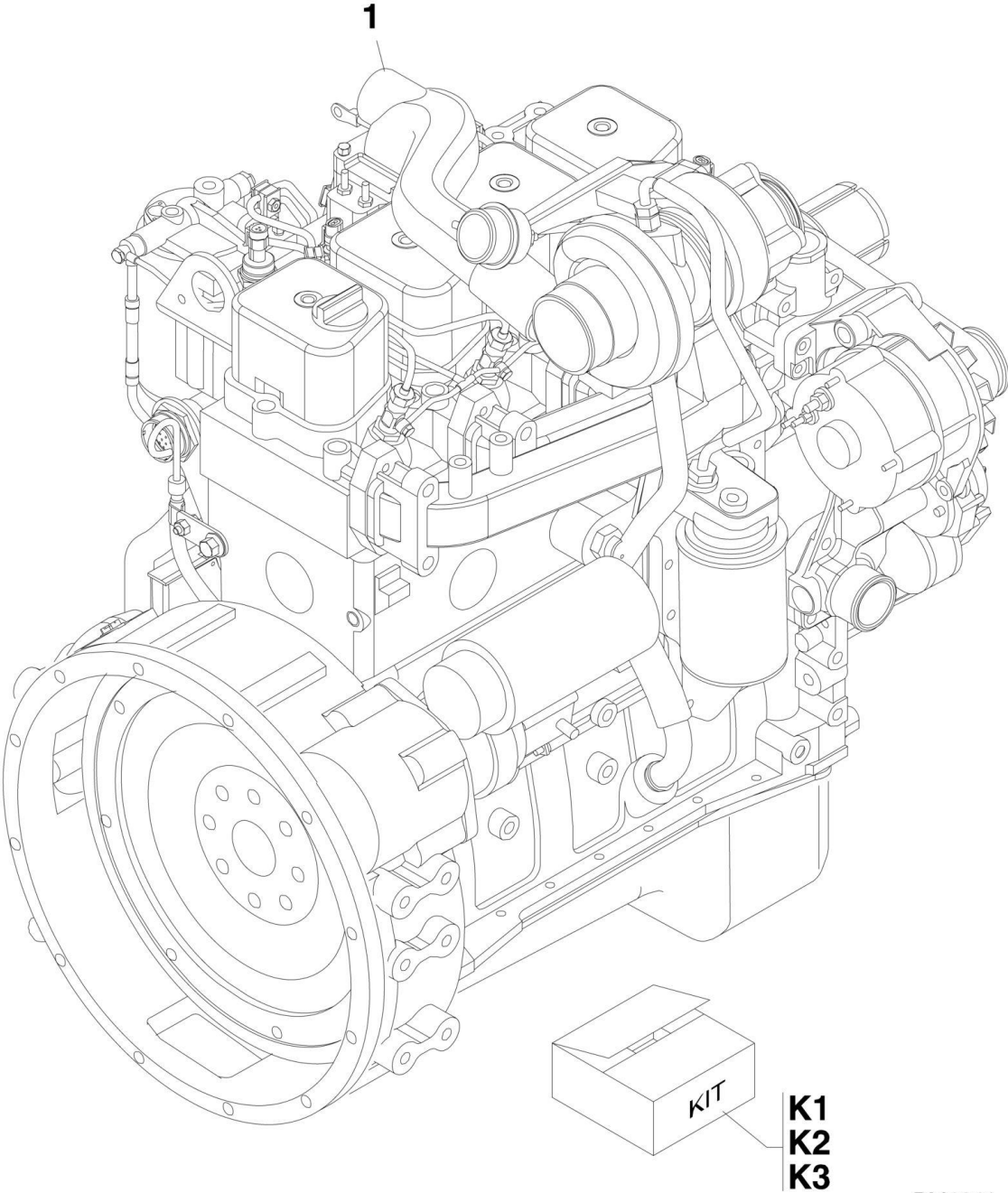
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	CUMMINS ENGINE, (See CUMMINS ENGINE for Breakdown)	
2		Ref	FUEL SYSTEM, (See FUEL TANK AND LINES for Breakdown)	
3		Ref	RADIATOR ASSY, (See RADIATOR ASSEMBLY for Breakdown)	
4		Ref	AIR CLEANER ASSY, (See AIR CLEANER ASSEMBLY for Breakdown)	
5		Ref	EXHAUST ASSY, (See EXHAUST SYSTEM for Breakdown)	
	6623691	1	ENGINE MOUNTING ASSY, (includes items 101 thru 122)	AA
101	6623658	1	ENGINE MOUNT, (right front)	
102	6623662	1	ENGINE MOUNT, (left front)	
103	7121951	2	REBOUND WASHER, 7/16	
104	7127552	1	ENGINE MOUNT, (right rear)	
105	7127562	1	ENGINE MOUNT, (left rear)	
106	7132141	2	REBOUND WASHER, 5/8	
107	8278038	2	FRONT ENGINE ISOLATOR	
108	8278039	2	REAR ENGINE ISOLATOR	
109	8303621	4	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
110	8303675	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
111	8303790	6	HEX HD CAPSCREW, M12-1.75X30MM, PC8,8	
112	8305643	2	LOCKNUT, 5/8-11	
113	8305645	8	LOCKNUT, 3/8-16	
114	8307025	14	LOCKWASHER, M12	
115	8307107	2	WASHER, 5/8	
116	8307110	16	WASHER, 3/8	
117	8307113	2	WASHER, 7/16	
118	8310109	2	LOCKNUT, 7/16-14	
119	8310164	8	HEX HD CAPSCREW, M12-1.75X40MM, PC8,8	
120	8310289	2	HEX HD CAPSCREW, 7/16-14X3-1/4, GR8	
121	8310333	2	HEX HD CAPSCREW, 5/8-11X4, GR8	
122	8526007	AR	LOCTITE, #242, (apply to items 111 & 119)	
	6623689	1	MISC. ENGINE ASSY, (includes items 201 thru 230)	E
201	2717202	1	HOSE ASSY	
202	6610002	1	ENGINE OIL SAMPLE PLATE	
204	6623974	1	FUEL LUBRICITY FILTER BRACKET	
205	6623915	1	LUBRICITY FILTER KIT, (includes items 206 thru 211)	E
206	2717250	1	HOSE ASSY	
207	2717250	1	HOSE ASSY	
208	6623938	1	FUEL LUBRICITY FILTER ADAPTER KIT	AA
208	6623935	1	FUEL LUBRICITY FILTER ADAPTER	
208	6623936	1	O-RING	
208	6623937	1	THREADED STUD	
209	8320276	1	LUBRICITY FILTER AND HEAD	
210	2220414	2	STRAIGHT ADAPTOR	
211	8770293	2	ADAPTOR, 90	
212	7132131	1	OIL DRAIN HOSE	
213	8036532	1	BULKHEAD ADAPTOR	
214	8272032	1	SUCTION FAN	
215	8303611	2	HEX HD CAPSCREW, M8X1.25X30MM, PC8.8	
217	8303697	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
218	8305626	1	LOCKNUT, 5/16-18	
219	8305645	2	LOCKNUT, 3/8-16	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
220	8307106	2	WASHER, 5/16	
221	8307110	2	WASHER, 3/8	
222	8310645	4	HEX HD CAPSCREW, M10X1.5X100MM, PC8.8	
223	8310693	4	FLANGE HD CAPSCREW, M8X1.25X25MM, PC8.8	
224	2220273	1	ADAPTOR, STRAIGHT, 4-2	
225	2220654	1	ADAPTOR, 90, 4-4	
227	2220695	1	TEE ADAPTOR, 12-12	
228	1001094694	1	ADAPTOR, STRAIGHT, 4-12	
229	8904026	1	ENGINE OIL SAMPLING VALVE	
230	8410009	1	HOSE CLAMP	
231		Ref	OIL FILTER BRACKET, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
301	1321819	1	HOSE	
302	1321821	1	OIL FILTER HEAD	
303	1321829	1	HOSE	
304	1322135	1	ADAPTOR, STRAIGHT, 12-12	
305	1322136	1	ADAPTOR, 90, 12-12	
306	70029917	1	ADAPTOR, STRAIGHT, 12-12	
308	8320275	1	ENGINE OIL FILTER	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. CUMMINS ENGINE



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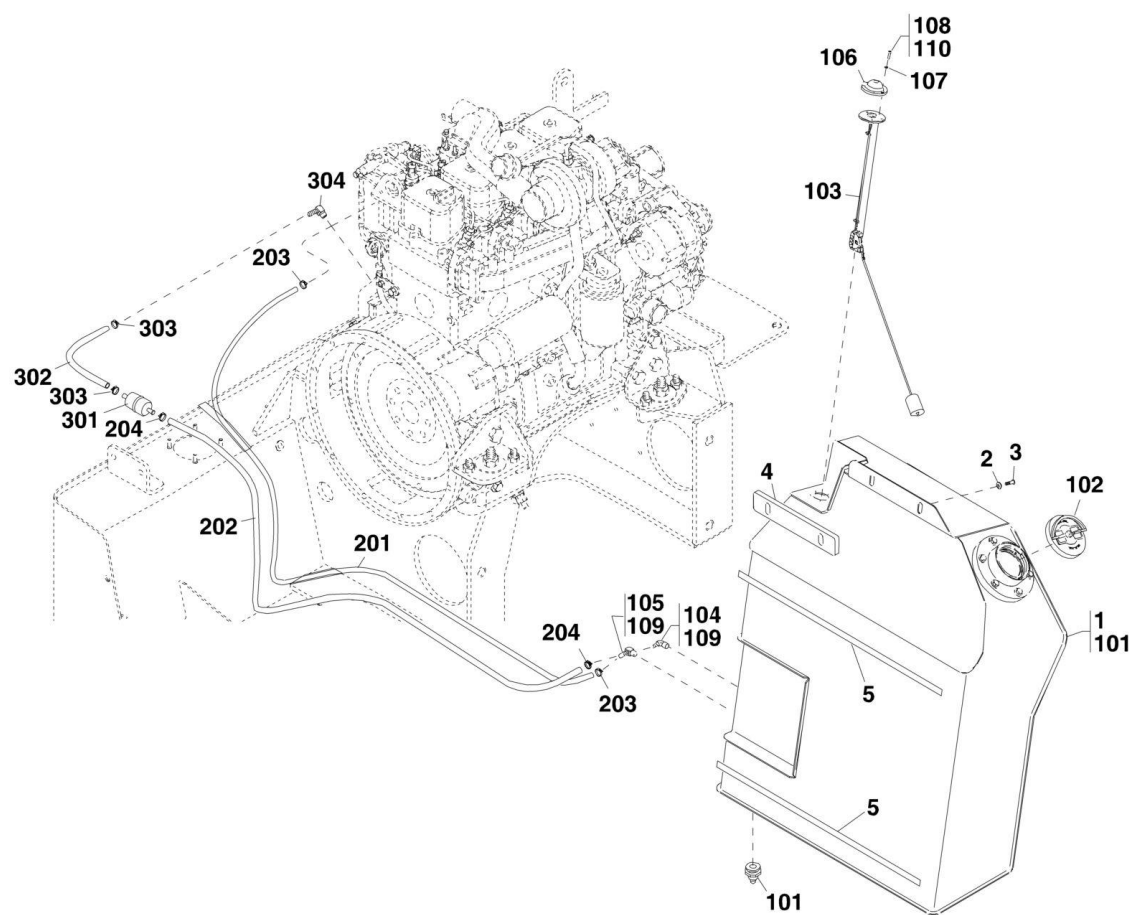
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. CUMMINS ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001101092	1	CUMMINS ENGINE QSB4.5T, 110 HP, (includes all items)	B
1	7028993	1	STARTER	
1	7028837	1	FAN BELT	
1	7028963	1	FAN PULLEY	
1	7028741	1	TURBOCHARGER KIT	
1		Ref	TURBOCHARGER	
1		Ref	TURBOCHARGER GASKET	
1		Ref	OIL DRAIN GASKET	
1	1321968	1	DIPSTICK	
1	1321976	1	DIPSTICK TUBE	
1	7029944	1	THERMOSTAT	
1	7028938	1	FAN SUPPORT	
1	7029226	4	FUEL INJECTOR KIT	
1		Ref	INJECTOR	
1		Ref	CONNECTOR SEAL	
1		Ref	RING SEAL	
1	7029164	1	WATER PUMP KIT	
1		Ref	SEAL	
1	7029910	1	FUEL INJECTOR PUMP	
1	7029942	1	TEMPERATURE SENDER, (coolant or intake manifold)	
1	7029831	1	TEMPERATURE SENDER, (intake manifold)	
1	1321841	1	PRESSURE SENDER, (intake manifold or fuel)	
1	7029947	1	PRESSURE SWITCH, (oil)	
1	1321843	1	POSITION SENDER	
1	7029943	1	CAPTIVE WASHER CAPSCREW, (fuel filter plumbing)	
1	70029919	1	FAN SPACER	
1	70021454	1	FRONT GEAR COVER	
1	70021456	1	TURBOCHARGER OIL DRAIN CONNECTION	
1	70021455	2	TURBOCHARGER OIL DRAIN CONNECTION ORING	
1	1322074	1	CRANKSHAFT PULLEY	
1	8320277	1	FUEL FILTER	
1	7029991	1	FUEL TRANSFER PUMP	
1	1321797	1	GASKET	
K1	6624021	1	50 HOUR FILTER KIT, (includes engine oil filter, transmission filter and hydraulic filter)	
K2	8024051	1	250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter and inline fuel filter)	
K3	8024052	1	1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, inline fuel filter, transmission filter, hydraulic filter, primary and safety air filters)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. FUEL TANK AND LINES



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SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. FUEL TANK AND LINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101719	1	FUEL SYSTEM ASSY, (includes items 1 thru 5)	C
1	1001100404	1	FUEL TANK ASSY, (includes items 101 thru 110)	C
2	8307220	2	WASHER, M12	
3	8303785	2	HEX HD CAPSCREW, M12X1.75X45MM, PC8.8	
4	1001111780	1	BLOCK, SPACER	
5	1001101227	AR	TAPE, SOLID RUBBER	
101	1001100405	1	FUEL TANK	B
101	8036601	1	FUEL DRAIN PLUG, 3/8	
102	8322024	1	FUEL CAP	
103	7060812	1	FUEL LEVEL SENDER, (includes gasket)	
104	8430039	1	HOSE BARB ELBOW, 90, #5-4P	
105	8420229	1	HOSE BARB ELBOW, 90, #6-4P	
106	6611912	1	FUEL SENDER COVER	
107	8307003	5	WASHER, #10	
108	8303891	5	HEX HD CAPSCREW, #10-32X3/4	
109	8526015	AR	PIPE THREAD SEALANT, (apply to items 104 & 105)	
110	0100011	AR	LOCTITE, #242, (apply to item 108)	
	7301079	1	FUEL SYSTEM PLUMBING ASSY, (includes items 201 thru 204)	C
201	7300378	1	FUEL RETURN HOSE ASSY	
202	7300379	1	FUEL SUPPLY HOSE ASSY	
203	8405009	2	HOSE CLAMP	
204	8410013	2	HOSE CLAMP	
301	8274022	1	INLINE FUEL FILTER	
302	70029916	1	FUEL SUPPLY HOSE, 3/8X15-3/4	
303	70029915	2	HOSE CLAMP	
304	8420229	1	HOSE ELBOW, 3/8	

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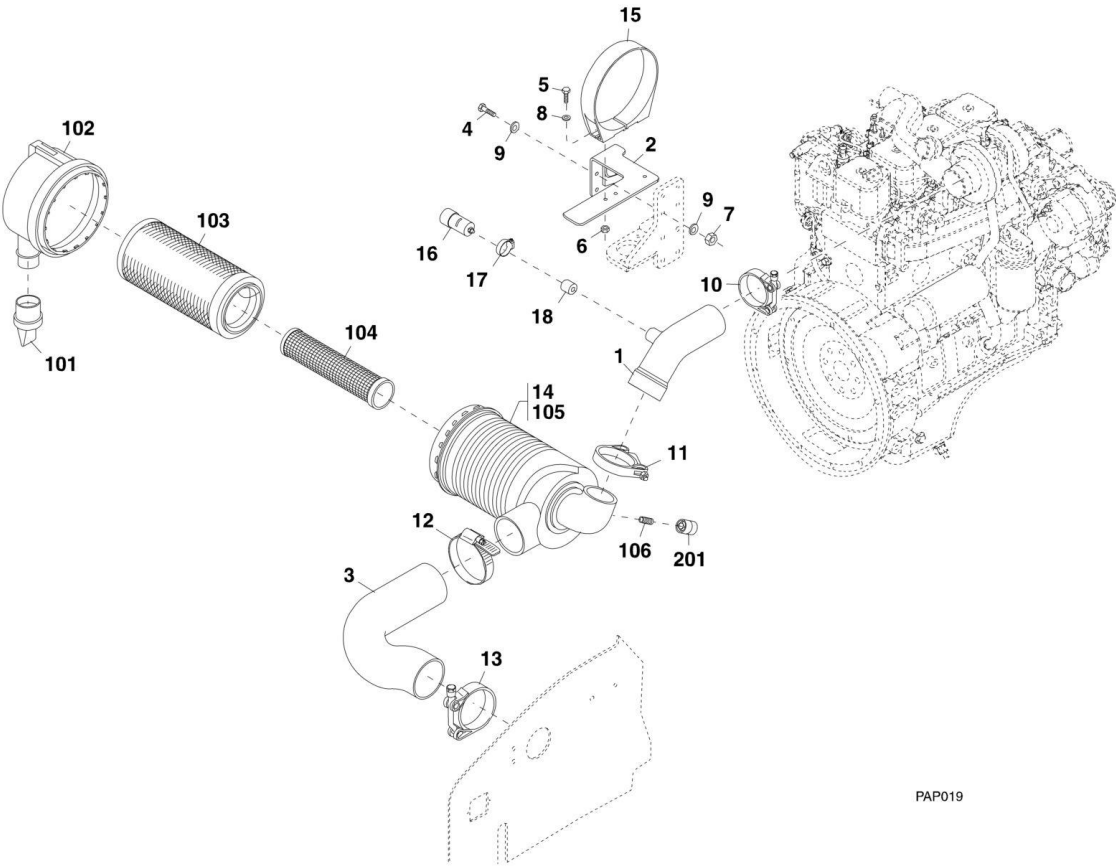
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. RADIATOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623694	1	RADIATOR ASSY, (includes items 1 thru 29)	E
1	6623855	1	TOP BAFFLE SHEET	
2	6623856	1	SIDE BAFFLE SHEET	
3	6623918	1	FAN SHROUD	
4	6623927	1	RADIATOR HOSE INSTALLATION, (includes items 101 thru 113)	AB
5	6623939	AR	COOLER SHROUD SHEET SHIM	
6	7057141	9	WASHER	
7	7085422	1	OVERFLOW TANK, 3 QT	
7	8866341	1	CAP, W/TEATHER	
7	8180330	1	OVERFLOW HOSE	
8	7300375	1	BULB SEAL, W/GRIP 54IN	
9	8180224	1	COOLING STACK	
10	8180336	1	OVERFLOW HOSE, 1000 MM	
11	8278020	3	RUBBER-ISOLATOR MOUNT	
12	8303097	3	HEX HD CAPSCREW, M10-1.5X65MM, PC8.8	
13	8303606	11	HEX HD CAPSCREW, M8-1.25X20MM, PC8.8	
15	8305626	2	HEX NUT, 5/16-18	
16	8305630	3	LOCKNUT, M10-1.5	
17	8305654	9	LOCK NUT, M8-1.25	
18	8307022	2	LOCKWASHER, M8	
19	8307203	14	WASHER, 5/16	
20	8310200	3	WASHER, 1/4	
22	8310621	8	WASHER, 10MMX30MM	
23	8410016	2	HOSE CLIP	
24	8526044	AR	PIPE THREAD SEALANT	
25	8530012	1	BRASS REDUCER, 8P-4P	
26	8530042	1	BRASS ELBOW, 4P	
27	8530043	1	BRASS COUPLING, 4P	
28	2210113	2	NIPPLE, 8PX2-1/2	
29	8904001	2	BRASS DRAIN COCK	
101	6623910	1	RADIATOR HOSE BRACKET	
102	7139992	1	FILLER NECK	
102	8180318	1	RADIATOR CAP, 10 PSI	
103	7301914	1	UPPER RADIATOR HOSE, (engine port)	
104	7301915	1	UPPER RADIATOR HOSE, (cooler port)	
105	7301916	1	LOWER RADIATOR HOSE	
106	8305624	2	LOCKNUT, 1/4-20	
107	8305630	1	LOCKNUT, M10X1.5	
108	8307109	2	WASHER, 1/4	
109	8310026	2	HEX HD CAPSCREW, 1/4- 20X3/4, GR5, (torque to 5.6-10 lb-ft)	
110	8310534	1	HEX HD CAPSCREW, M10-1.5X40MM, PC10.9, (torque to 35-64 lb-ft)	
111	8342016	2	P-STYLE CLAMP	
112	8405201	5	GEAR CLAMP	
113	8405202	1	GEAR CLAMP, 2.75 MAX DIA	

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FIGURE 4-5. AIR CLEANER ASSEMBLY



PAP019

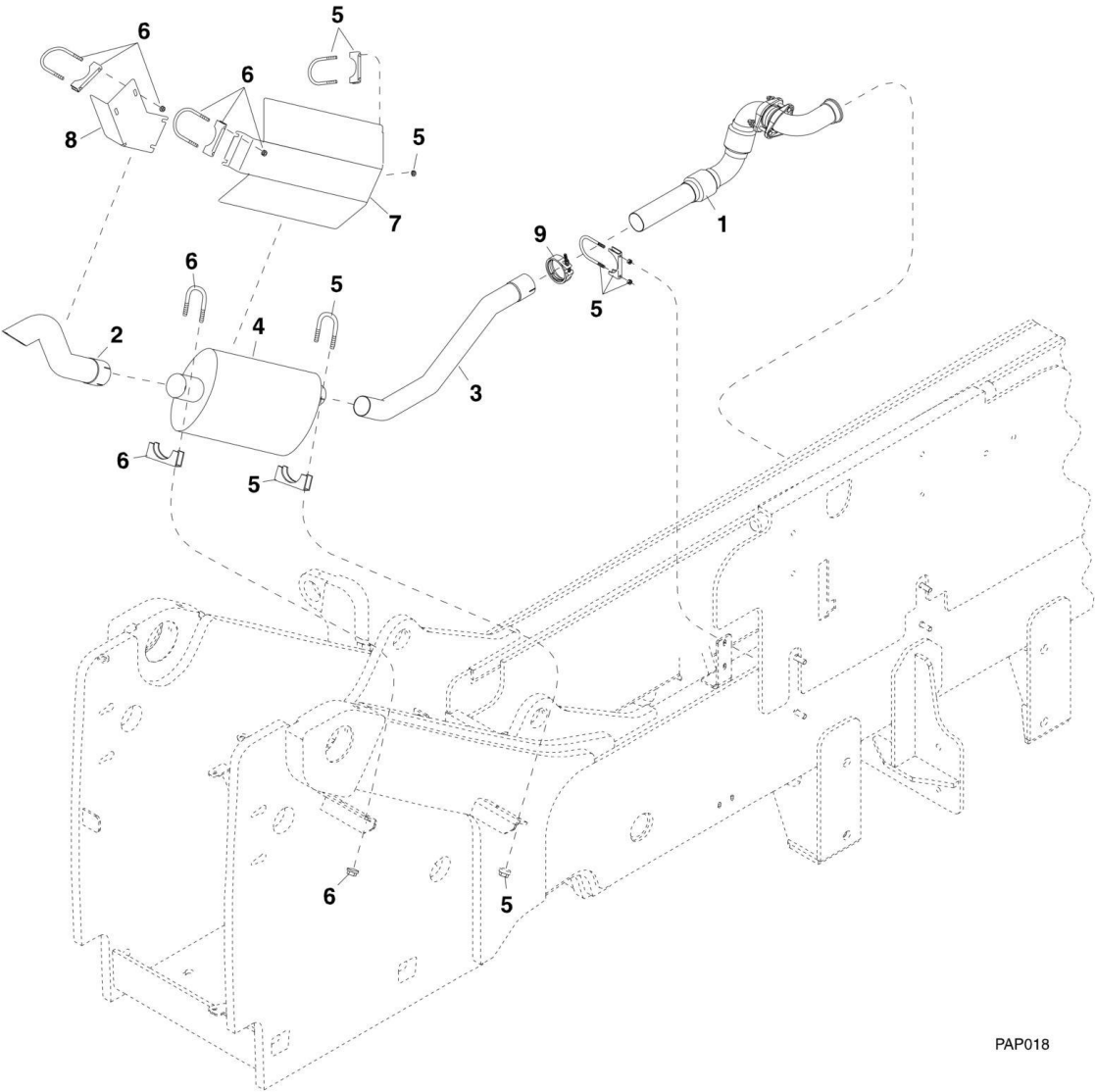
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. AIR CLEANER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001111078	1	AIR INTAKE ASSY, (includes items 1 thru 18)	A
1	6623845	1	HOSE, AIR CLEANER	
2	6623976	1	AIR CLEANER SUPPORT WELDMENT	
3	7139824	1	AIR INLET PIPE	
4	8303621	4	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
5	8303739	2	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
6	8305626	2	LOCKNUT, 5/16-18	
7	8305645	4	LOCKNUT, 3/8-16	
8	8307106	4	WASHER, 5/16	
9	8307110	8	WASHER, 3/4	
10	8405306	1	T-BOLT CLAMP	
11	8405307	1	T-BOLT CLAMP	
12	8405402	1	HOSE CLAMP	
13	8405505	1	T-BOLT CLAMP	
14	10268515	1	AIR CLEANER ASSY, (includes items 101 thru 106)	
15	10268516	1	AIR CLEANER MOUNTING BAND	
16	8273260	1	INDICATOR, AIR RESTRICTOR	
17	8405102	1	HOSE CLAMP	
18	1001111085	1	ADAPTER, AIR RESTRICTOR INDICATOR	
101	8036869	1	VACUATOR VALVE	
102	8036868	1	COVER ASSY	
103	1101312	1	PRIMARY FILTER	
104	1101313	1	SAFETY FILTER	
105		Ref	BODY ASSY	
106	8551001	1	CLOSE NIPPLE	
201		Ref	VACUUM SWITCH, (See ELECTRICAL SECTION for Breakdown)	

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FIGURE 4-6. EXHAUST SYSTEM



PAP018

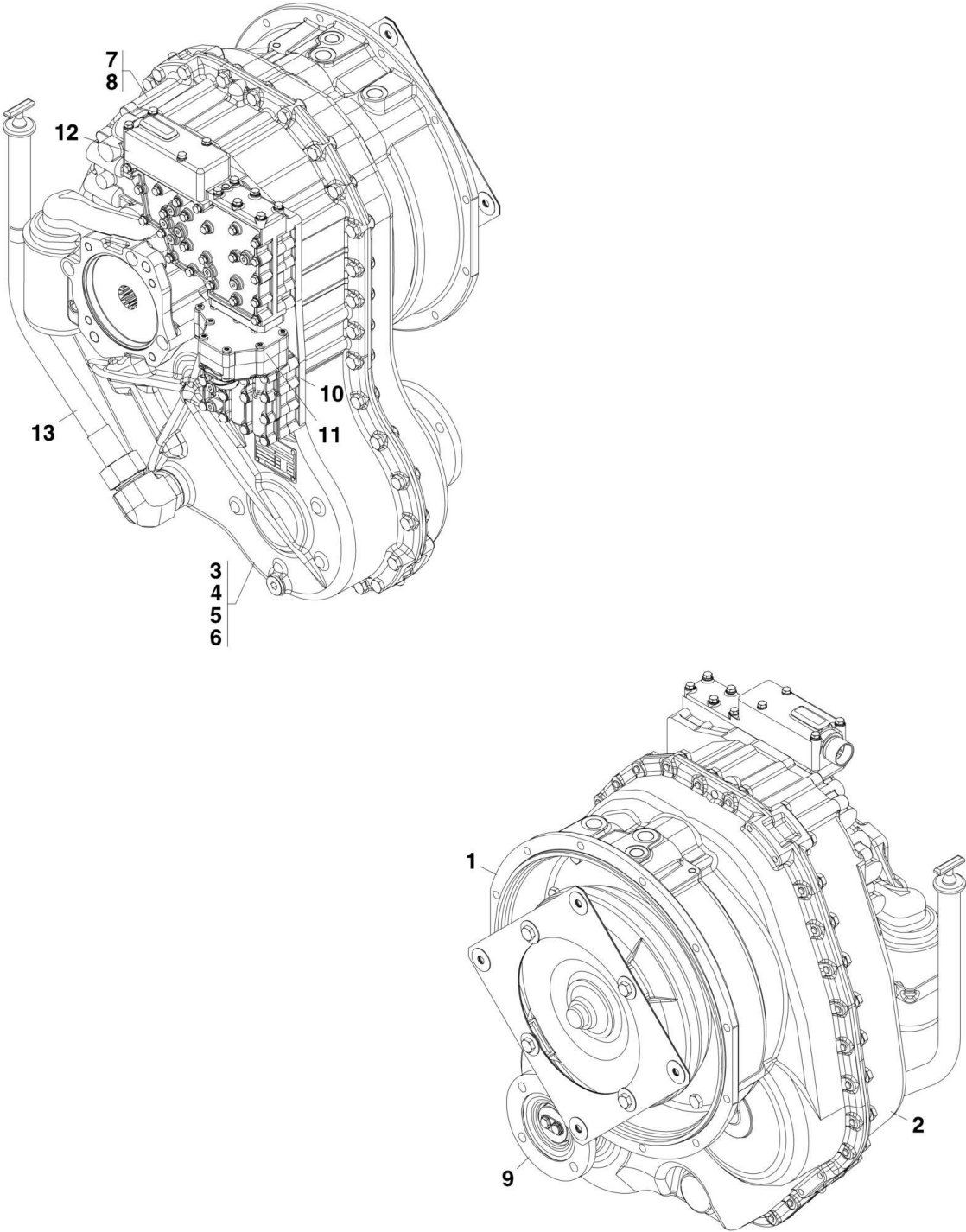
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. EXHAUST SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101393	1	EXHAUST ASSY, (includes all items)	A
1	6623724	1	EXHAUST PIPE, TURBO OUTLET	
2	7138686	1	TAIL PIPE	
3	7139461	1	EXHAUST PIPE	
4	8275041	1	MUFFLER	
5	8275212	3	MUFFLER CLAMP, 2-1/2IN	
6	8275247	3	MUFFLER CLAMP, 3IN	
7	1001101395	1	SHEILD, HEAT	
8	1001101438	1	SHEILD, HEAT	
9	8275249	1	ACCUSEAL CLAMP, 2-1/2IN	

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FIGURE 4-7. TRANSMISSION - ZF TRANSMISSION



PM1560

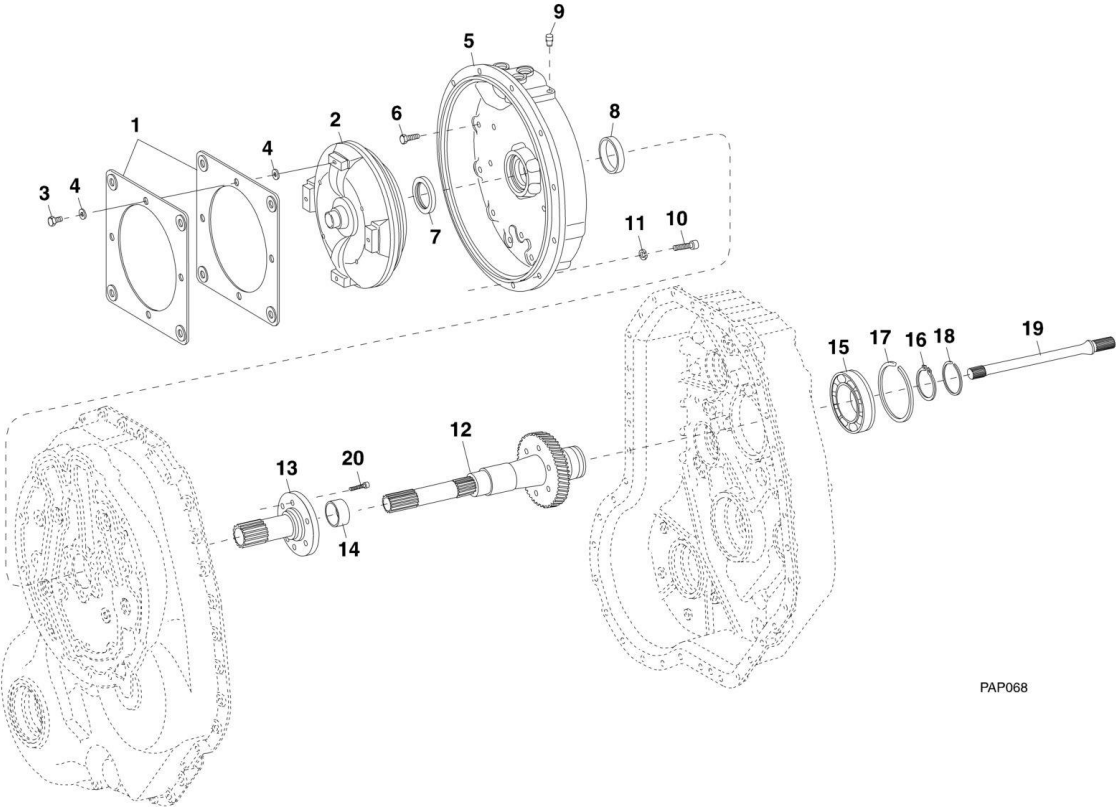
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. TRANSMISSION - ZF TRANSMISSION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8841042	1	TRANSMISSION, (includes all items)	
1		Ref	ENGINE CONNECTIONS AND INPUT SHAFTS, (See ZF TRANSMISSION - ENGINE CONNECTION AND INPUT SHAFTS for Breakdown)	
2		Ref	GEARBOX HOUSING, (See ZF TRANSMISSION - GEARBOX HOUSING for Breakdown)	
3		Ref	COUPLING GROUP 1, (See ZF TRANSMISSION - COUPLING GROUP 1 for Breakdown)	
4		Ref	COUPLING GROUP 2, (See ZF TRANSMISSION - COUPLING GROUP 2 for Breakdown)	
5		Ref	COUPLING GROUP 3, (See TRANSMISSION - COUPLING GROUP 3 for Breakdown)	
6		Ref	COUPLING GROUP 4, (See ZF TRANSMISSION - COUPLING GROUP 4 for Breakdown)	
7		Ref	REVERSING GEAR GROUP 1, (See ZF TRANSMISSION - REVERSING GEAR GROUP 1 for Breakdown)	
8		Ref	REVERSING GEAR GROUP 2, (See ZF TRANSMISSION - REVERSING GEAR GROUP 2 for Breakdown)	
9		Ref	OUTPUT, (See ZF TRANSMISSION - OUTPUT for Breakdown)	
10		Ref	CONTROL UNIT, (See ZF TRANSMISSION - CONTROL UNIT for Breakdown)	
11		Ref	VALVE HOUSING ASSY, (See ZF TRANSMISSION - VALVE HOUSING ASSEMBLY for Breakdown)	
12		Ref	VALVE BLOCK ASSY, (See ZF TRANSMISSION - VALVE BLOCK ASSEMBLY for Breakdown)	
13		Ref	OIL PUMP AND FILTER, (See ZF TRANSMISSION - OIL PUMP for Breakdown)	

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FIGURE 4-8. ZF TRANSMISSION - ENGINE CONNECTION AND INPUT SHAFTS



PAP068

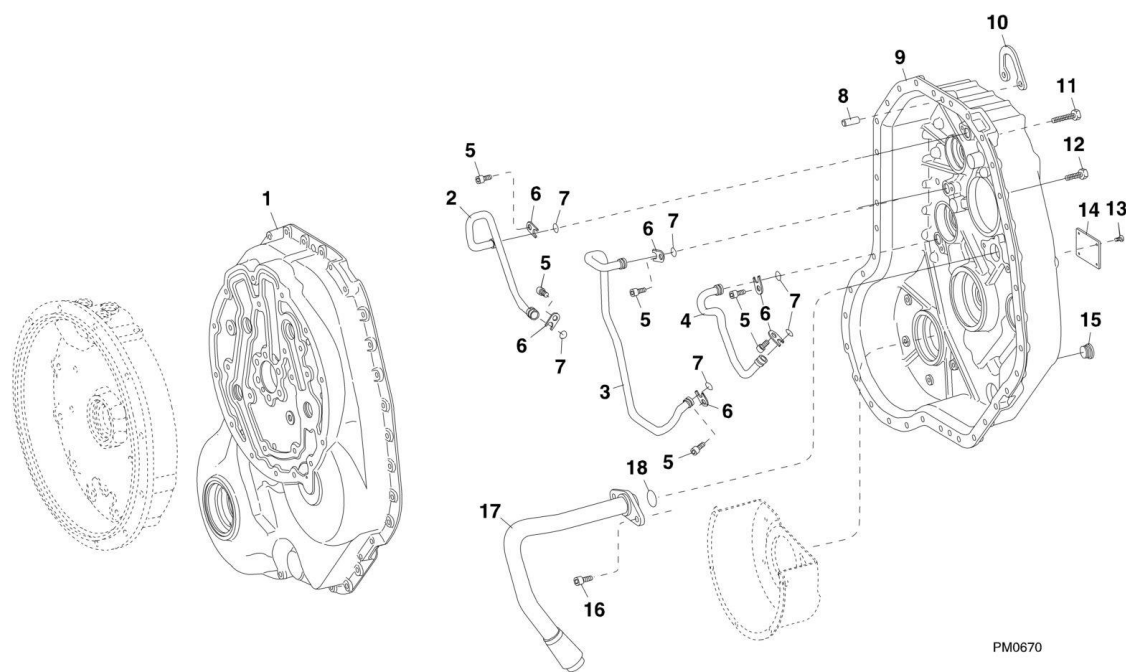
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. ZF TRANSMISSION - ENGINE CONNECTION AND INPUT SHAFTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319229	2	DIAPHRAGM	
2	8036022	1	CONVERTER	
3	7026744	4	HEX HD CAPSCREW, M10X16MM	
4	7026745	8	WASHER, 1	
5	1319574	1	CONVERTER BELL	
6	80304394	23	HEX HD CAPSCREW, M10X30MM	
7	1319576	1	SHAFT SEAL	
8	1319575	1	BEARING BUSHING	
9	10731744	1	BREATHER	
10	8303769	12	HEX HD CAPSCREW, M10-1.5X45MM	
11	8307023	12	LOCKWASHER, M10	
12	8036023	1	TURBINE SHAFT	
13	1319557	1	STATOR SHAFT	
14	1319558	1	BEARING BUSHING	
15	1319563	1	BALL BEARING	
16	10731913	1	RETAINING RING, 55X2	
17	80304405	1	SNAP RING, 1001	
18	7026749	1	PISTON RING, 55X3	
19	1319566	1	CENTRAL SHAFT	
20	1319577	6	SOCKET HD CAPSCREW, M10X50MM	

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FIGURE 4-9. ZF TRANSMISSION - GEARBOX HOUSING



PM0670

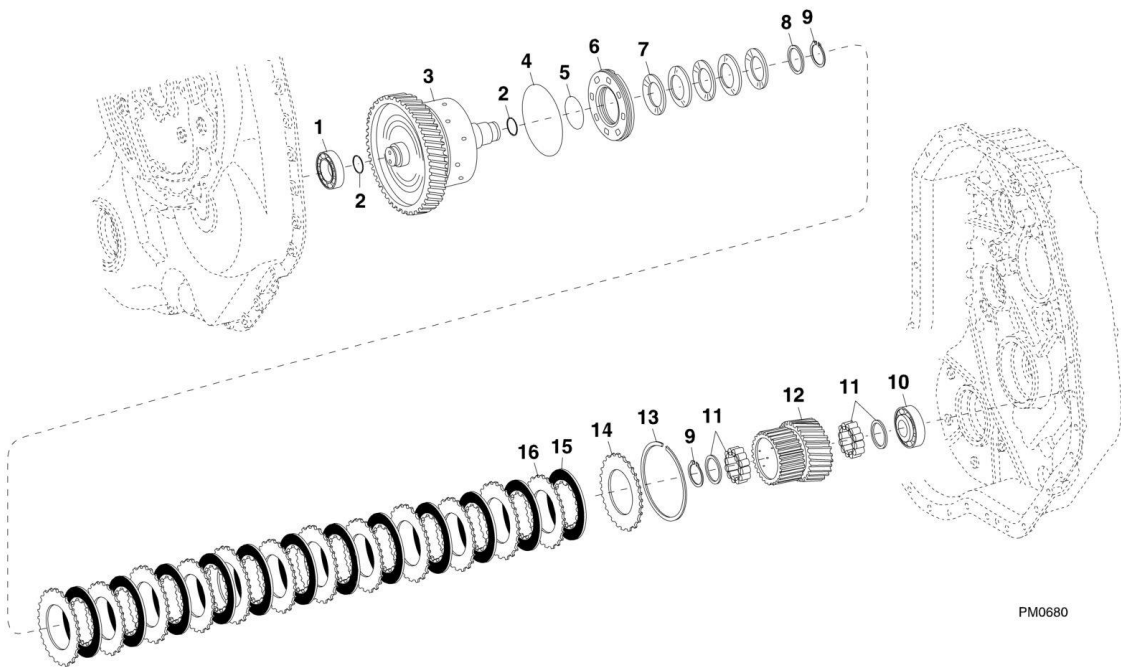
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-9. ZF TRANSMISSION - GEARBOX HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319567	1	HOUSING	
2	1319586	1	PIPE	
3	1319587	1	PIPE	
4	8036027	1	PIPE	
5	1319585	10	SOCKET HD CAPSCREW, M8X16MM	
6	1319584	6	FIXING PLATE	
7	1319583	6	O-RING, 14X2	
8	1319571	2	CYLINDRICAL PIN, M6X24	
9	1319568	1	HOUSING II	
10	1319590	1	BRACKET	
11	7026794	6	HEX HD CAPSCREW, M10X50MM	
12	80304394	30	HEX HD CAPSCREW, M10X30MM	
13	1319573	4	GROOVED STUD, 3X5	
14	1319572	1	TYPE PLATE	
15	1319578	1	DRAIN PLUG, 7/8-14	
16	1319582	2	SOCKET HD CAPSCREW, M8X20MM	
17	1319580	1	OIL SUCTION PIPE	
18	1319581	1	O-RING, 30X3	

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FIGURE 4-10. ZF TRANSMISSION - COUPLING GROUP 1



PM0680

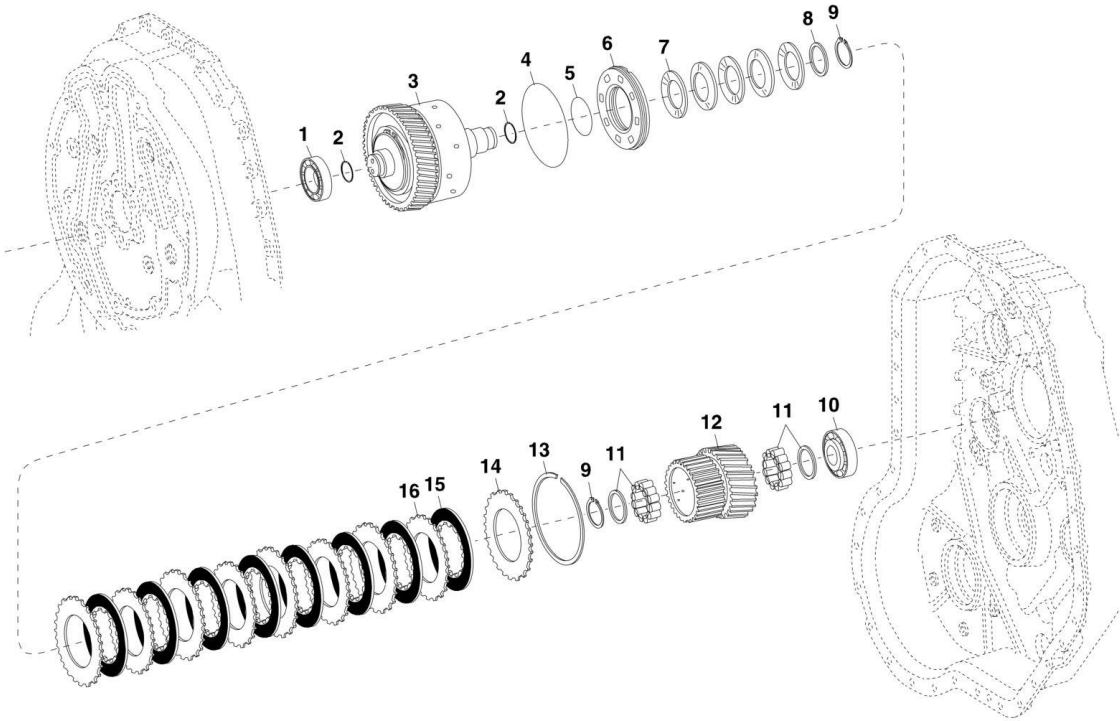
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FIGURE 4-10. ZF TRANSMISSION - COUPLING GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319608	1	ROLLER BEARING	
2	7026761	2	PISTON RING, 30X2	
3	1319591	1	COUPLING	
4	1319594	1	O-RING	
5	1319593	1	O-RING	
6	8036575	1	PISTON	
7	1319595	5	CUP SPRING	
8	1319596	1	SHIM, 2	
9	10731845	2	RETAINING RING, 40X1.75	
10	8036190	1	ROLLER BEARING	
11	1319606	2	ROLLER CAGE	
12	1319607	1	DISC CARRIER	
13	1319600	1	SNAP RING, 4	
13	1319601	1	SNAP RING, 3.5	
13	1319602	1	SNAP RING, 3	
13	1319603	1	SNAP RING, 2.5	
13	1319604	1	SNAP RING, 2	
14	7026760	1	END SHIM	
15	7026758	12	LIN. CLUTCH DISC	
16	7026759	12	O. CLUTCH DISC	

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FIGURE 4-11. ZF TRANSMISSION - COUPLING GROUP 2



PM0690

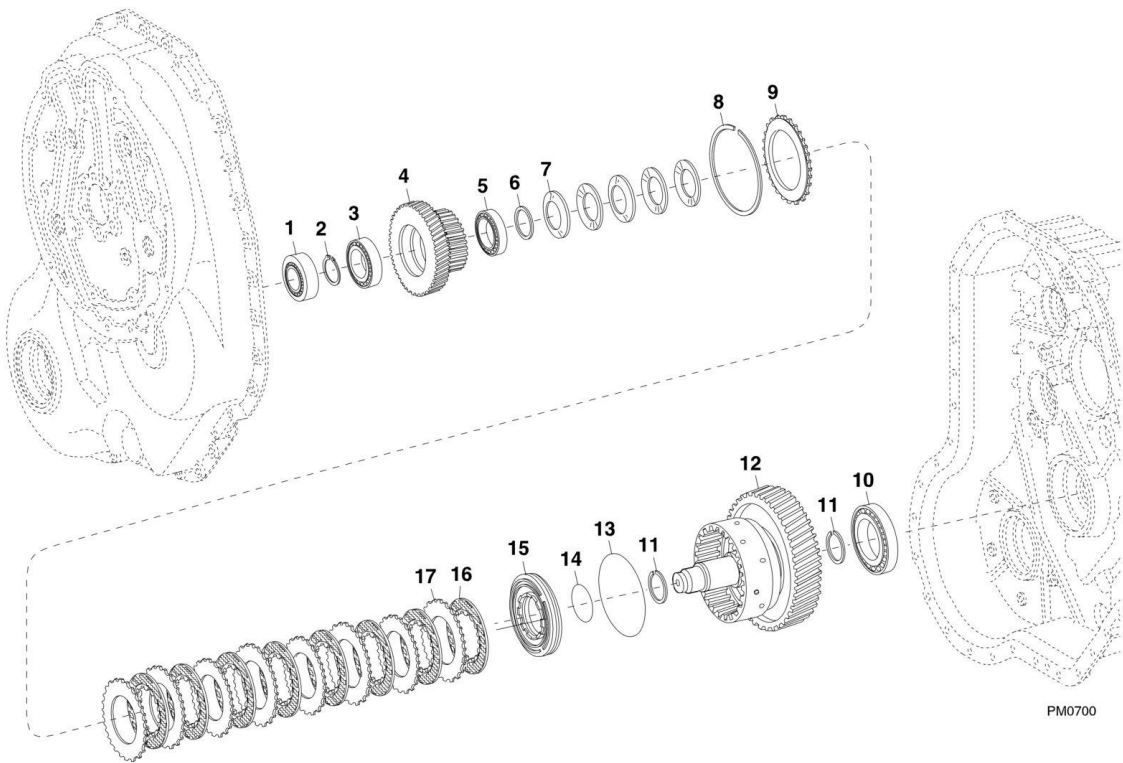
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FIGURE 4-11. ZF TRANSMISSION - COUPLING GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	ROLLER BEARING	
2	7026761	2	PISTON RING, 30X2	
3	1319613	1	COUPLING	
4	1319594	1	O-RING	
5	1319593	1	O-RING	
6	8036575	1	PISTON	
7	1319595	5	CUP SPRING	
8	1319596	1	SHIM, 2	
9	10731845	2	RETAINING RING, 40X1.75	
10	8036190	1	ROLLER BEARING ASSY	
10	7029532	1	OUTER RING	
10	7029533	1	INNER RING	
11	1319606	2	ROLLER CAGE	
12	1319614	1	DISC CARRIER	
13	1319600	1	SNAP RING, 4	
13	1319601	1	SNAP RING, 3.5	
13	1319602	1	SNAP RING, 3	
13	1319603	1	SNAP RING, 2.5	
13	1319604	1	SNAP RING, 2	
14	7026760	1	END SHIM	
15	7026758	8	LIN. CLUTCH DISC	
16	7026759	8	O. CLUTCH DISC	

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FIGURE 4-12. ZF TRANSMISSION - COUPLING GROUP 3



PM0700

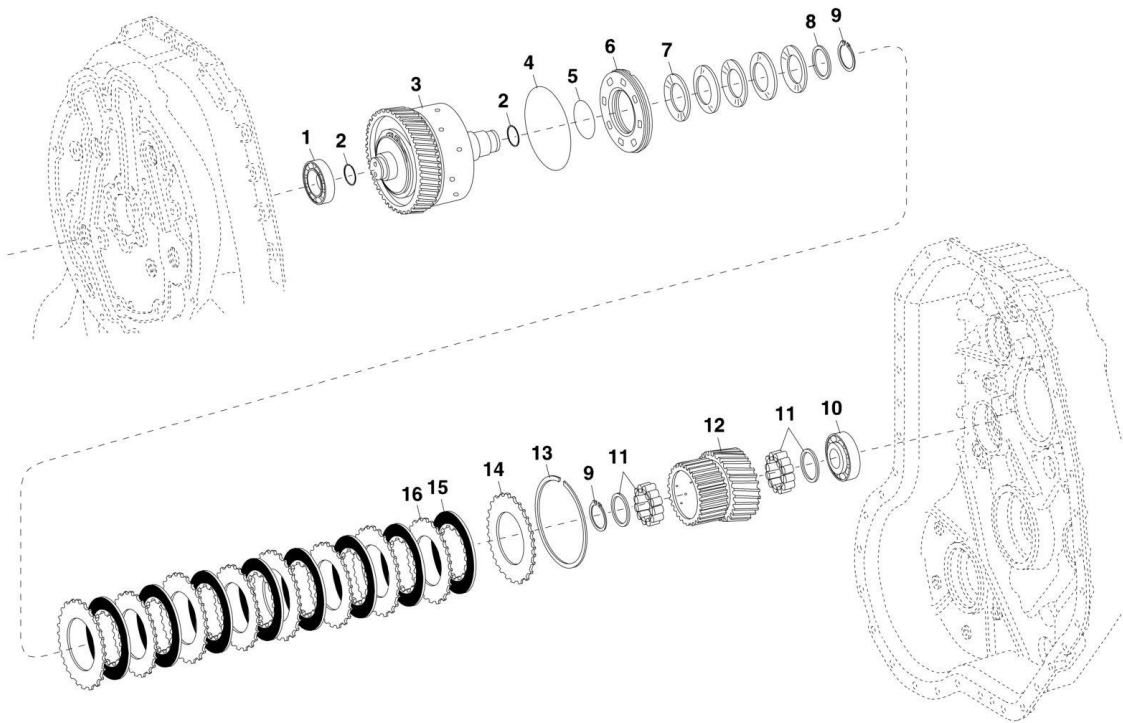
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FIGURE 4-12. ZF TRANSMISSION - COUPLING GROUP 3

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036190	1	ROLLER BEARING ASSY	
1	7029532	1	OUTER RING	
1	7029533	1	INNER RING	
2	1319621	1	RETAINING RING, 3.2	
2	1319622	1	RETAINING RING, 3.1	
2	1319623	1	RETAINING RING, 3	
2	1319624	1	RETAINING RING, 2.9	
2	1319625	1	RETAINING RING, 2.8	
2	1319626	1	RETAINING RING, 2.7	
2	1319627	1	RETAINING RING, 2.6	
2	1319628	1	RETAINING RING, 38X2.5	
2	1319629	1	RETAINING RING, 38X2.4	
2	1319630	1	RETAINING RING, 38X2.3	
2	1319631	1	RETAINING RING, 38X2.2	
2	1319632	1	RETAINING RING, 38X2.1	
3	1319620	1	ROLLER BEARING	
4	1319619	1	DISC CARRIER	
5	1319618	1	ROLLER BEARING	
6	1319617	1	SUPPORT SHIM	
7	1319595	5	CUP SPRING	
8	1319600	1	SNAP RING, 4	
8	1319601	1	SNAP RING, 3.5	
8	1319602	1	SNAP RING, 3	
8	1319603	1	SNAP RING, 2.5	
8	1319604	1	SNAP RING, 2	
9	7026760	1	END SHIM	
10	1319633	1	ROLLER BEARING	
11	7026761	2	PISTON RING, 30X2	
12	1319616	1	COUPLING	
13	1319594	1	O-RING, 115X3	
14	1319593	1	O-RING, 52X3	
15	8036575	1	PISTON	
16	7026758	8	LIN. CLUTCH DISC	
17	7026759	8	O. CLUTCH DISC	

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FIGURE 4-13. ZF TRANSMISSION - COUPLING GROUP 4



PM0710

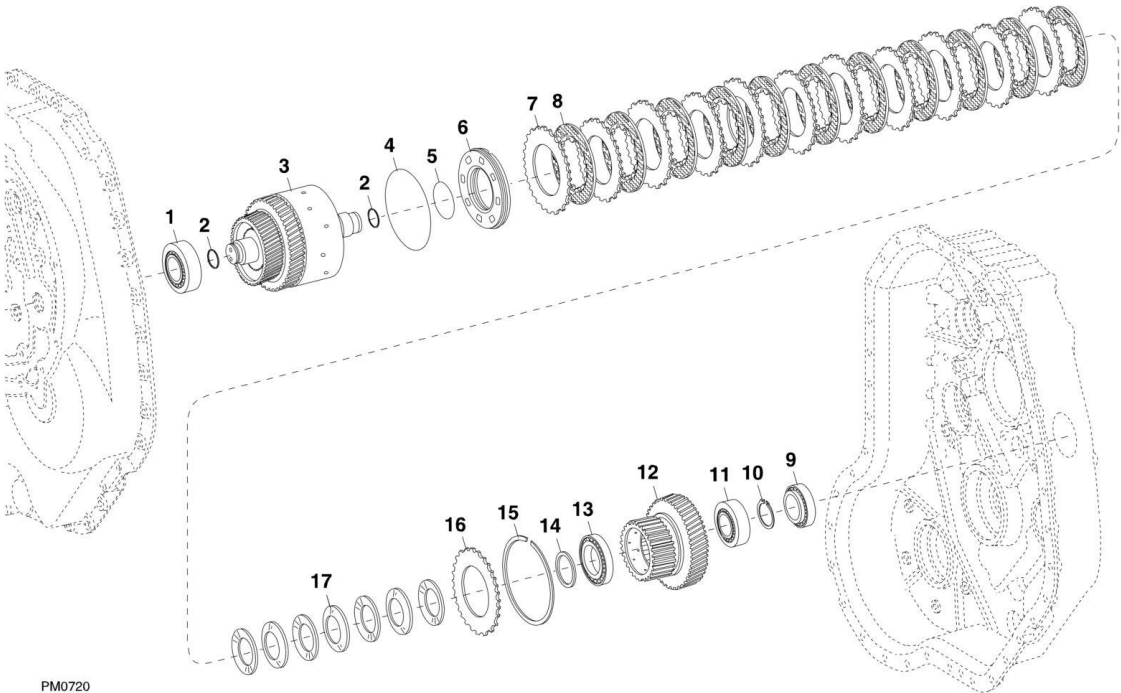
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-13. ZF TRANSMISSION - COUPLING GROUP 4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	ROLLER BEARING	
2	7026761	2	PISTON RING, 30X2	
3	1319634	1	COUPLING	
4	1319594	1	O-RING	
5	1319593	1	O-RING	
6	8036575	1	PISTON	
7	1319595	5	CUP SPRING	
8	1319596	1	SHIM, 2	
9	10731845	2	RETAINING RING, 40X1.75	
10	1319636	1	ROLLER BEARING	
11	1319606	2	ROLLER CAGE	
12	1319635	1	DISC CARRIER	
13	1319600	1	RING, 4	
13	1319601	1	SNAP RING, 3.5	
13	1319602	1	SNAP RING, 3	
13	1319603	1	SNAP RING, 2.5	
13	1319604	1	SNAP RING, 2	
14	7026760	1	END SHIM	
15	7026758	8	LIN. CLUTCH DISC	
16	7026759	8	O. CLUTCH DISC	

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FIGURE 4-14. ZF TRANSMISSION - REVERSING GEAR GROUP 1



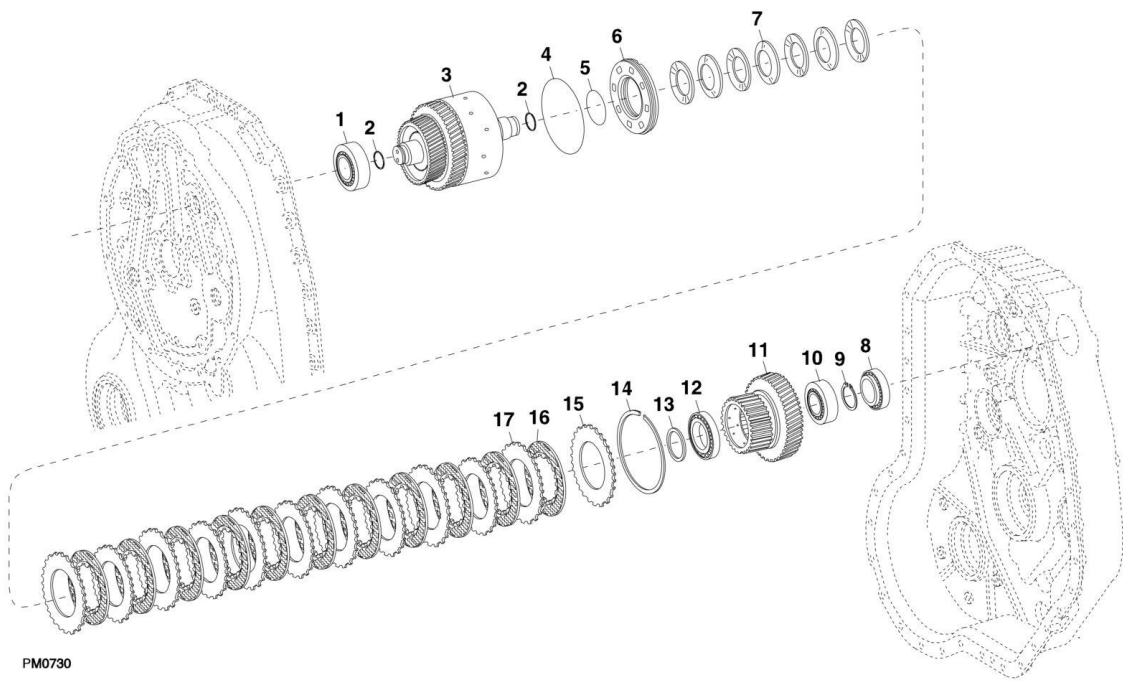
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-14. ZF TRANSMISSION - REVERSING GEAR GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	ROLLER BEARING	
2	7026761	1	PISTON RING, 30X2	
3	1319637	1	COUPLING	
4	1319594	1	O-RING	
5	1319593	1	O-RING	
6	8036575	1	PISTON	
7	7026758	11	LIN. CLUTCH DISC	
8	7026759	11	O. CLUTCH DISC	
9	1319636	1	ROLLER BEARING	
10	1319621	1	RETAINING RING, 3.2	
10	1319622	1	RETAINING RING, 3.1	
10	1319623	1	RETAINING RING, 3	
10	1319624	1	RETAINING RING, 2.9	
10	1319625	1	RETAINING RING, 2.8	
10	1319626	1	RETAINING RING, 2.7	
10	1319627	1	RETAINING RING, 2.6	
10	1319628	1	RETAINING RING, 2.5	
10	1319629	1	RETAINING RING, 2.4	
10	1319630	1	RETAINING RING, 2.3	
10	1319631	1	RETAINING RING, 2.2	
10	1319632	1	RETAINING RING, 2.1	
11	1319620	1	ROLLER BEARING	
12	1319638	1	DISC CARRIER	
13	1319618	1	ROLLER BEARING	
14	1319617	1	SUPPORT SHIM	
15	1319600	1	SNAP RING, 4	
15	1319601	1	SNAP RING, 3.5	
15	1319602	1	SNAP RING, 3	
15	1319603	1	SNAP RING, 2.5	
15	1319604	1	SNAP RING, 2	
16	7026760	1	END SHIM	
17	1319595	7	CUP SPRING	

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FIGURE 4-15. ZF TRANSMISSION - REVERSING GEAR GROUP 2



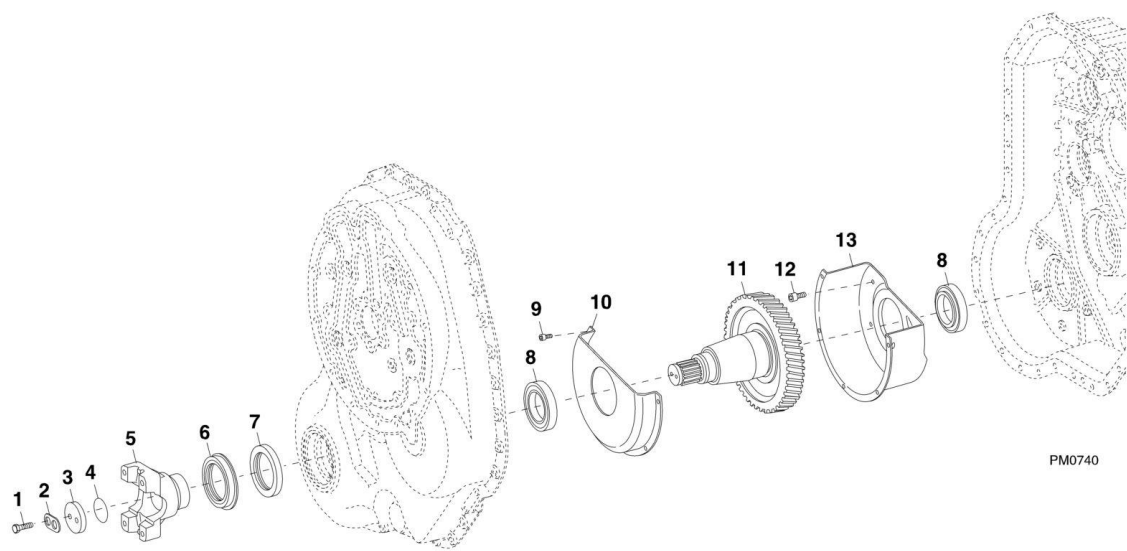
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-15. ZF TRANSMISSION - REVERSING GEAR GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319608	1	ROLLER BEARING	
2	7026761	1	PISTON RING, 30X2	
3	1319639	1	COUPLING	
4	1319594	1	O-RING	
5	1319593	1	O-RING	
6	8036575	1	PISTON	
7	1319595	7	CUP SPRING	
8	1319636	1	ROLLER BEARING	
9	1319621	1	RETAINING RING, 3.2	
9	1319622	1	RETAINING RING, 3.1	
9	1319623	1	RETAINING RING, 3	
9	1319624	1	RETAINING RING, 2.9	
9	1319625	1	RETAINING RING, 2.8	
9	1319626	1	RETAINING RING, 2.7	
9	1319627	1	RETAINING RING, 2.6	
9	1319628	1	RETAINING RING, 2.5	
9	1319629	1	RETAINING RING, 2.4	
9	1319630	1	RETAINING RING, 2.3	
9	1319631	1	RETAINING RING, 2.2	
9	1319632	1	RETAINING RING, 2.1	
10	1319620	1	ROLLER BEARING	
11	1319638	1	DISC CARRIER	
12	1319618	1	ROLLER BEARING	
13	1319617	1	SUPPORT SHIM	
14	1319600	1	SNAP RING, 4	
14	1319601	1	SNAP RING, 3.5	
14	1319602	1	SNAP RING, 3	
14	1319603	1	SNAP RING, 2.5	
14	1319604	1	SNAP RING, 2	
15	7026760	1	END SHIM	
16	7026758	11	LIN. CLUTCH DISC	
17	7026759	11	O. CLUTCH DISC	

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FIGURE 4-16. ZF TRANSMISSION - OUTPUT



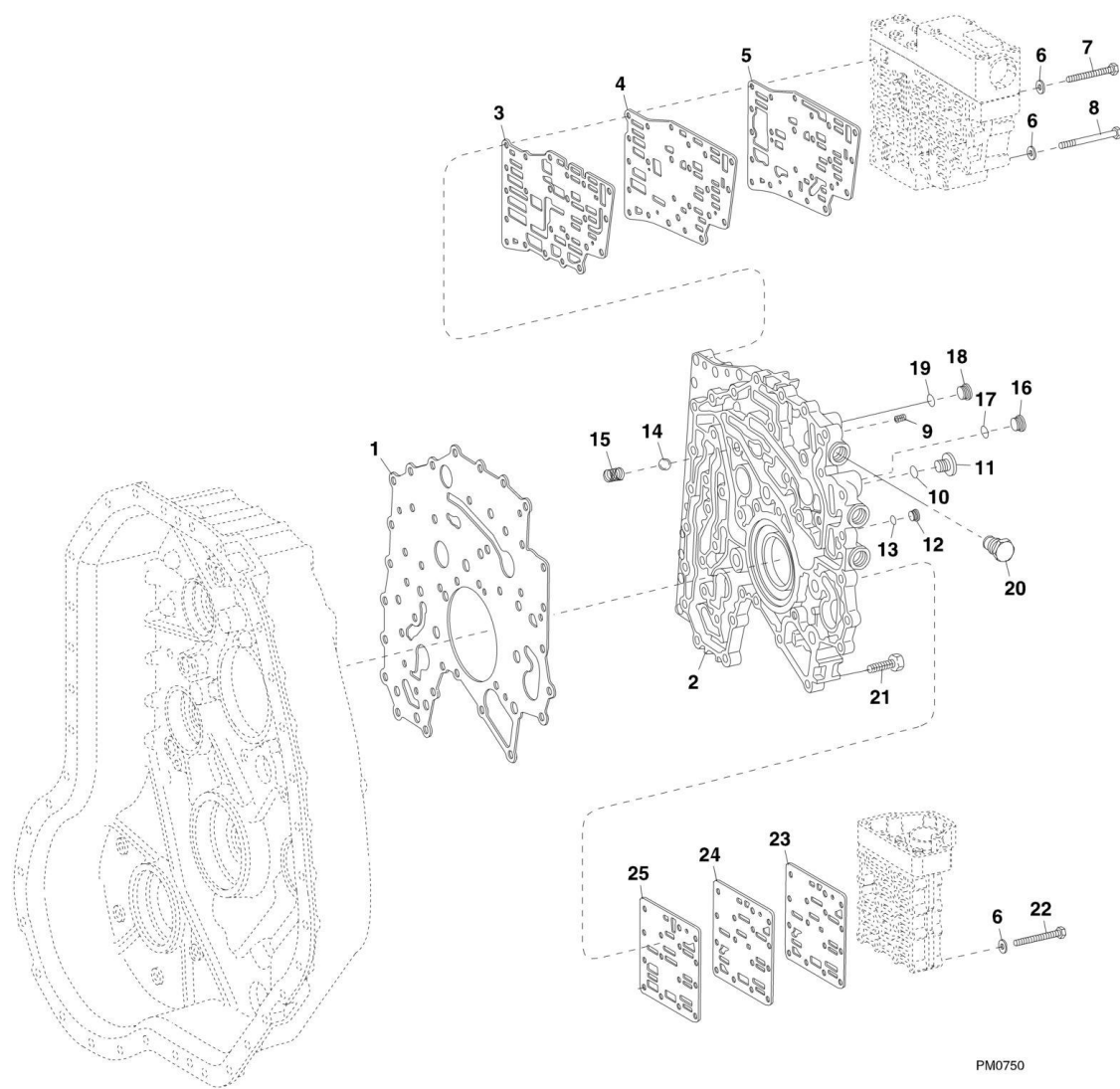
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-16. ZF TRANSMISSION - OUTPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10731959	2	HEX HD CAPSCREW, M8X25MM	
2	1319649	1	TAB WASHER	
3	1319648	1	WASHER, 10	
4	10839156	1	O-RING	
5	8036441	1	FLAT FACE FLANGE	
6	1319647	1	SHEET SCREEN	
7	1319641	1	SHAFT SEAL	
8	1319644	2	ROLLER BEARING	
9	1319646	5	HEX HD CAPSCREW, M6X10MM	
10	1319645	1	SCREEN SHEET	
11	1319640	1	SHAFT	
12	1319585	10	SOCKET HD CAPSCREW, M6X16MM	
13	1319589	1	SCREEN SHEET	

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FIGURE 4-17. ZF TRANSMISSION - CONTROL UNIT



PM0750

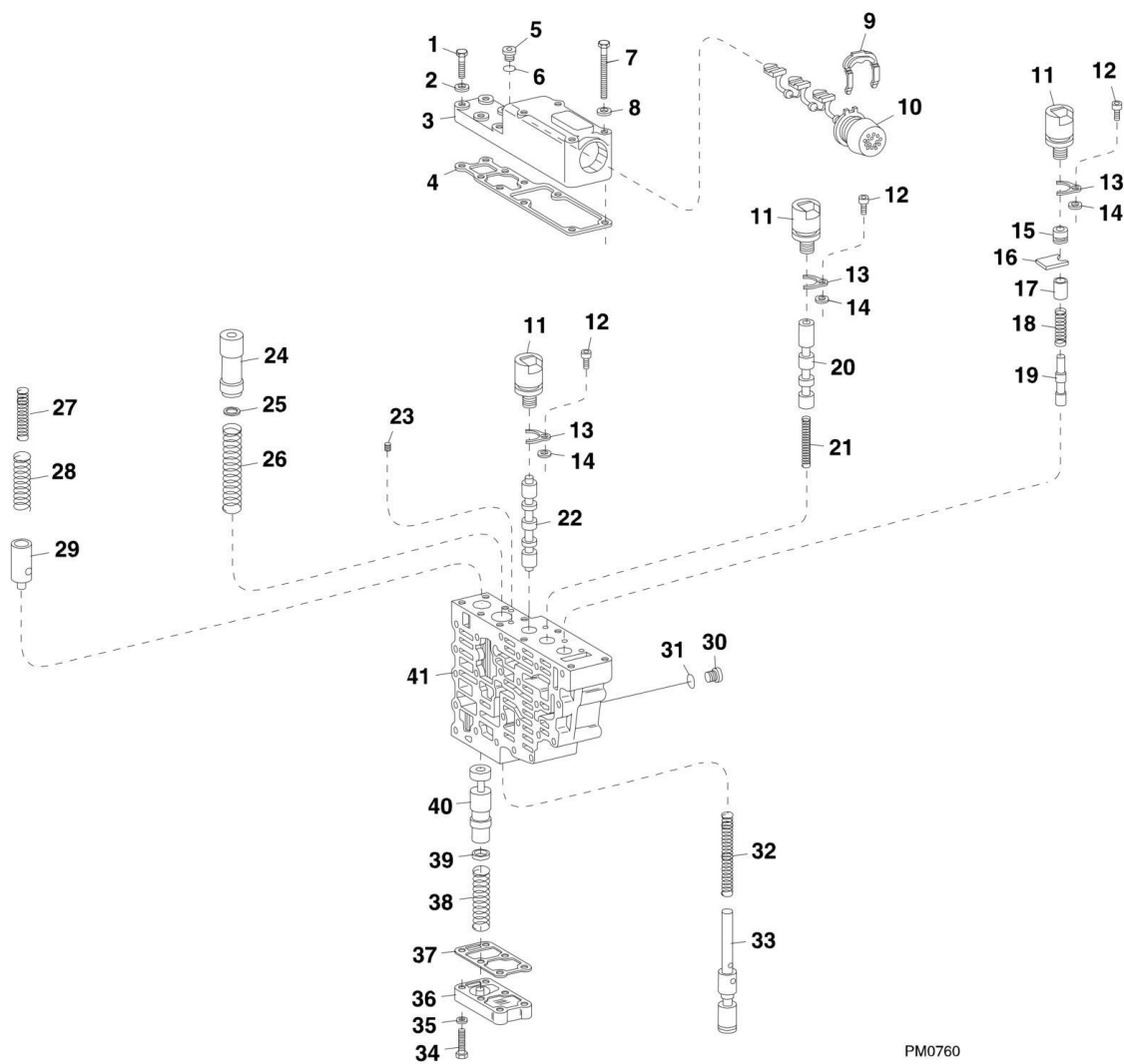
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-17. ZF TRANSMISSION - CONTROL UNIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319650	1	GASKET	
2	7029035	1	DUCT PLATE	
3	7029719	1	GASKET	
4	8036034	1	INTERMEDIATE SHEET	
5	7029718	1	GASKET	
6	1319661	38	WASHER, 6.4	
7	1319660	4	HEX HD CAPSCREW, M6X75MM	
8	1321265	19	HEX HD CAPSCREW, M6X65MM	
9	1319652	1	ORIFICE	
10	1319665	1	O-RING	
11	1319664	1	SCREW PLUG, 1/2-20	
12	1319670	1	SCREW PLUG, M10X1MM	
13	10731709	1	O-RING	
14	10732071	1	BALL	
15	10732072	1	COMPRESSION SPRING	
16	1319668	1	SCREW PLUG, 3/4-16	
17	1319669	1	O-RING	
18	1319666	1	SCREW PLUG, 9/16-18	
19	1319667	1	O-RING	
20	1319663	3	PLUG	
21	7029036	43	TORX SCREW, M8X30	
22	1321265	15	HEX HD CAPSCREW, M6X55MM	
23	7029720	1	GASKET	
24	8036035	1	INTERMEDIATE SHEET	
25	7029721	1	GASKET	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-18. ZF TRANSMISSION - VALVE HOUSING ASSEMBLY



PM0760

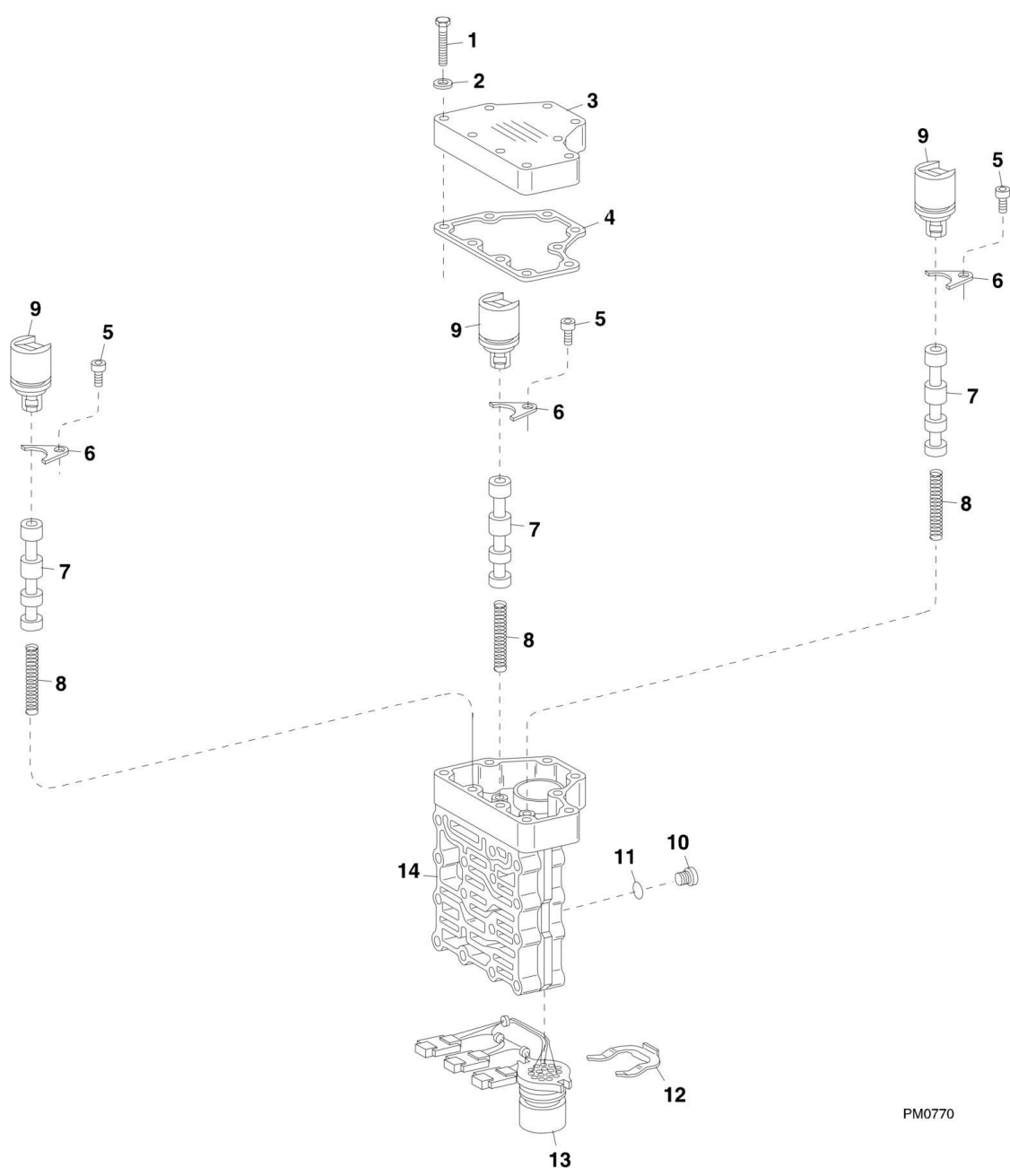
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-18. ZF TRANSMISSION - VALVE HOUSING ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1319716	1	VALVE HOUSING ASSY, (includes items 1 thru 41)	
1	1319693	6	HEX HD CAPSCREW, M6X25MM	
2	1319661	6	WASHER, 6.4	
3	8036039	1	COVER	
4	1319705	1	GASKET	
5	1319670	1	SCREW PLUG, M10X1	
6	10731709	1	O-RING, 8X1.5	
7	7029037	4	HEX HD CAPSCREW, M6X60MM	
8	1319661	4	WASHER, 6.4	
9	1319707	1	RETAINING CLAMP	
10	1319704	1	WIRING HARNESS	
11	1319702	3	SOLENOID VALVE	
12	1319703	3	HEX HD CAPSCREW, M5X12MM	
13	10732063	3	FIXING PLATE	
14	10732064	3	WASHER, 2	
15	1319700	1	PLUG	
16	1319701	1	FIXING PLATE	
17	1319699	1	SPACER SLEEVE	
18	1319698	1	COMPRESSION SPRING	
19	1319697	1	PISTON	
20	1319695	1	PISTON	
21	1319696	1	COMPRESSION SPRING	
22	1319694	1	VALVE	
23	1319652	1	ORIFICE	
24	1319690	1	PISTON	
25	1319685	1	WASHER, 2	
25	1319686	1	WASHER, 1	
25	1319687	1	WASHER, .5	
25	1319688	1	WASHER, .3	
25	1319689	1	WASHER, .2	
26	1319683	1	COMPRESSION SPRING	
27	8036038	1	COMPRESSION SPRING	
28	1319673	1	COMPRESSION SPRING	
29	7029039	1	PISTON	
30	1319670	1	SCREW PLUG, M10X1	
31	10731709	1	O-RING	
32	1319684	1	COMPRESSION SPRING	
33	1319681	1	CONTROL PISTON	
34	1319693	6	HEX HD CAPSCREW, M6X25MM	
35	1319661	6	WASHER, 6.4	
36	1319692	1	COVER	
37	1319691	1	GASKET	
38	1319680	1	COMPRESSION SPRING	
39	1319675	1	SPACER RING, 3.6	
39	1319676	1	SPACER RING, 3.2	
39	1319677	1	SPACER RING, 2.8	
39	1319678	1	SPACER RING, 2.4	
39	1319679	1	SPACER RING, 2	
40	1319674	1	PISTON	
41	1319671	1	VALVE HOUSING	

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FIGURE 4-19. ZF TRANSMISSION - VALVE BLOCK ASSEMBLY



PM0770

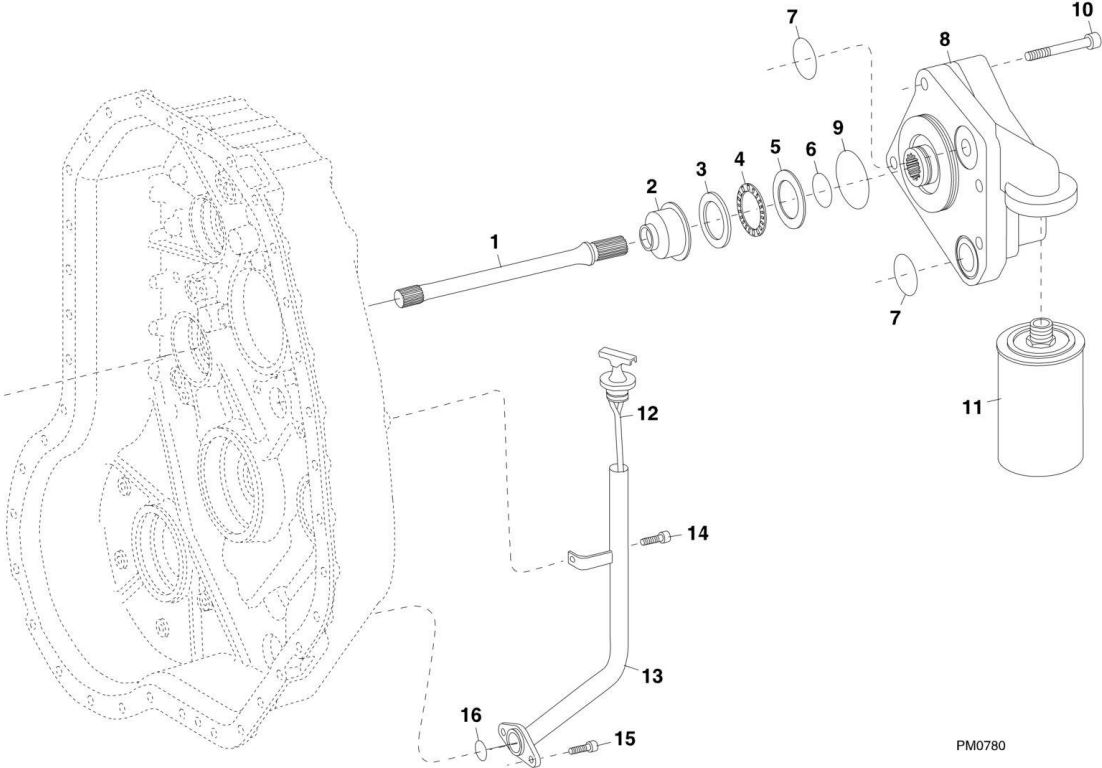
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-19. ZF TRANSMISSION - VALVE BLOCK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1319717	1	VALVE BLOCK ASSY, (includes all items)	
1	1319714	9	HEX HD CAPSCREW, M5X32MM	
2	1319715	9	WASHER, 5.3	
3	1319713	1	COVER	
4	1319712	1	GASKET	
5	1319703	3	SOCKET HD CAPSCREW, M5X12MM	
6	10732063	3	FIXING PLATE	
7	1319710	3	PISTON	
8	1319696	3	COMPRESSION SPRING	
9	1319702	3	SOLENOID VALVE	
10	1319670	3	SCREW PLUG, M10X1	
11	10731709	3	O-RING	
12	1319707	1	RETAINING CLAMP	
13	1319711	1	WIRING HARNESS	
14	70020427	1	VALVE BLOCK	

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FIGURE 4-20. ZF TRANSMISSION - OIL PUMP



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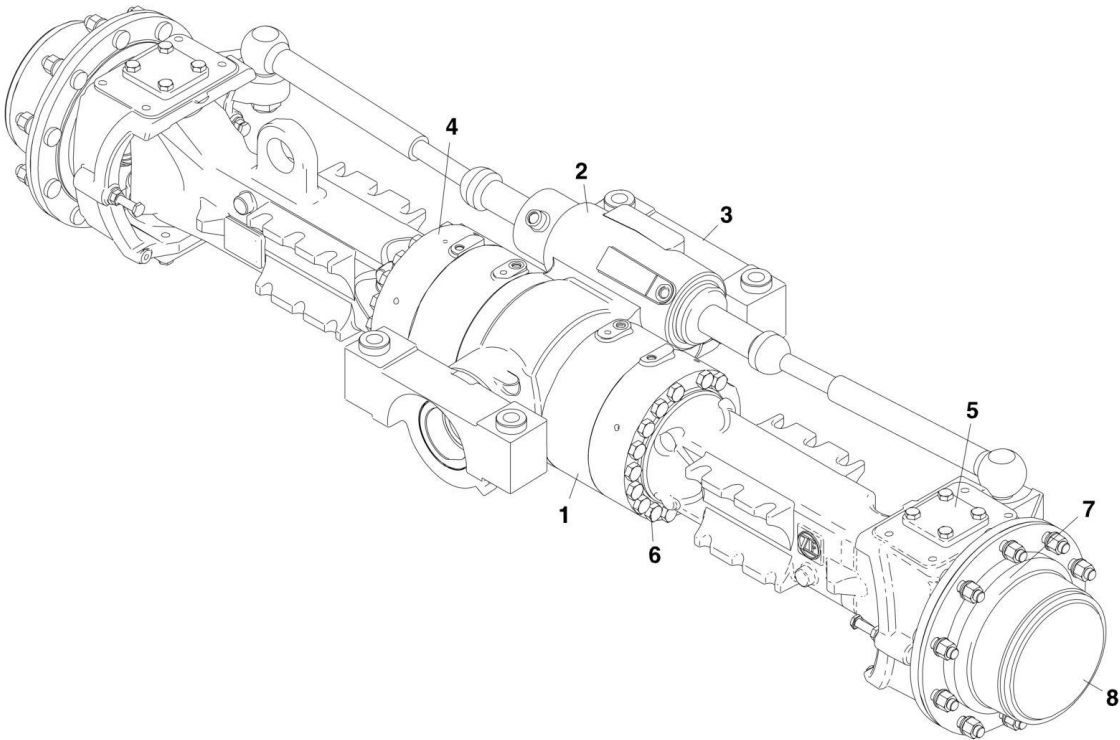
FIGURE 4-20. ZF TRANSMISSION - OIL PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319566	1	CENTRAL SHAFT	
2	1319723	1	SPACER BUSHING	
3	1319722	1	ANGLE DISC	
4	1319721	1	AXIAL NEEDLE CAGE	
5	1319720	1	AXIAL WASHER, 40X60X1	
6	1319724	1	O-RING	
7	1319719	2	O-RING	
8	1319718	1	PUMP, (includes item 9)	
8	7029417	1	O-RING, (between pump halves), (not shown)	
9	8036250	1	O-RING	
10	80304214	4	HEX HD CAPSCREW, M12X115MM	
11	1319726	1	TRANSMISSION FILTER	
12	8036003	1	DIPSTICK	
13	8036002	1	DIPSTICK TUBE, (with flange)	
14	1319585	1	SOCKET HD CAPSCREW, M8X16MM	
15	1319582	1	SOCKET HD CAPSCREW, M8X20MM	
16	1319581	1	O-RING	

SECTION 5 - DRIVE TRAIN

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FIGURE 5-1. FRONT AXLE



PM1570

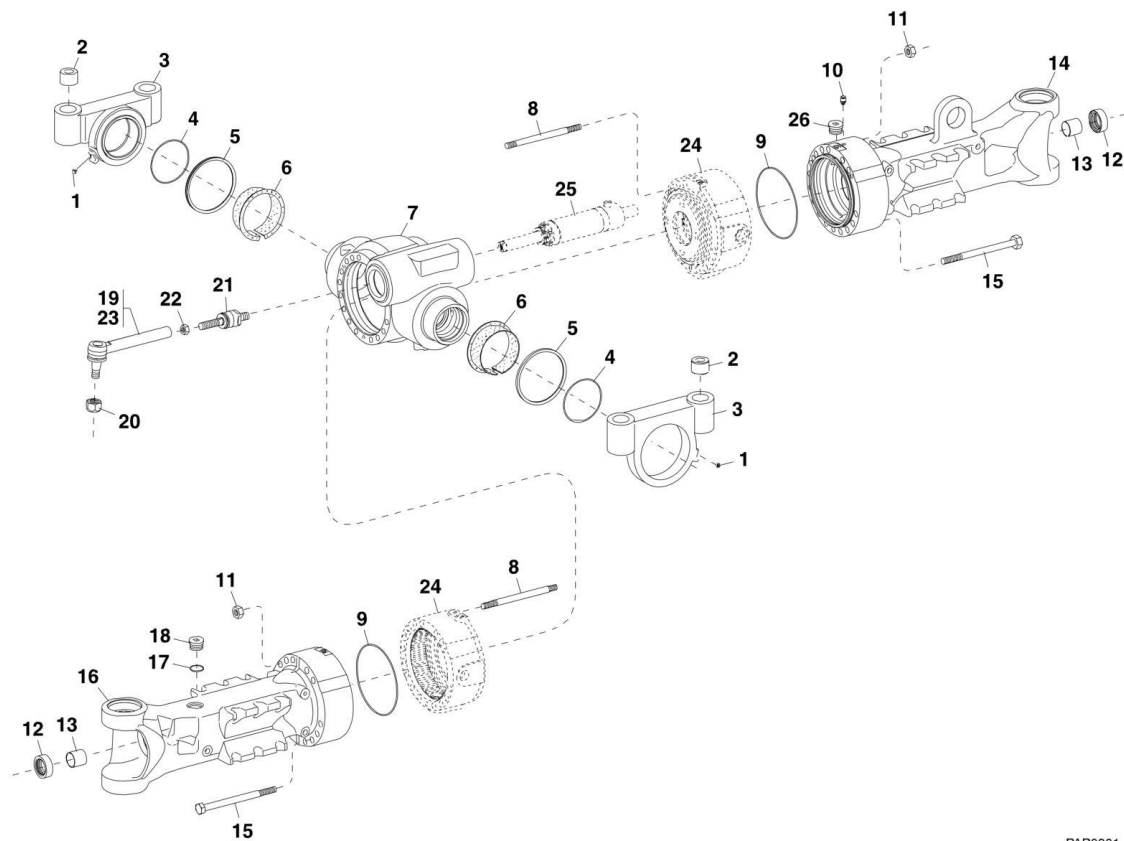
SECTION 5 - DRIVE TRAIN

FIGURE 5-1. FRONT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8040289B	1	FRONT AXLE	AA
		Ref	FRONT AXLE HOUSING, (See FRONT AXLE - HOUSING ASSEMBLY for Breakdown)	
2		Ref	STEERING COMPONENTS, (See FRONT AXLE - STEERING COMPONENTS for Breakdown)	
3		Ref	FRONT GEAR, (See FRONT AXLE - GEAR COMPONENTS for Breakdown)	
4		Ref	FRONT DIFFERENTIAL, (See FRONT AXLE - DIFFERENTIAL for Breakdown)	
5		Ref	FRONT JOINT HOUSING, (See FRONT AXLE - JOINT HOUSING for Breakdown)	
6		Ref	FRONT BRAKES, (See FRONT AXLE - M-DISC BRAKE for Breakdown)	
7		Ref	FRONT WHEEL HUB, (See FRONT AXLE - BRAKE for Breakdown)	
8		Ref	FRONT PLANETARY DRIVE, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)	

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FIGURE 5-2. FRONT AXLE - HOUSING ASSEMBLY



PAP0301

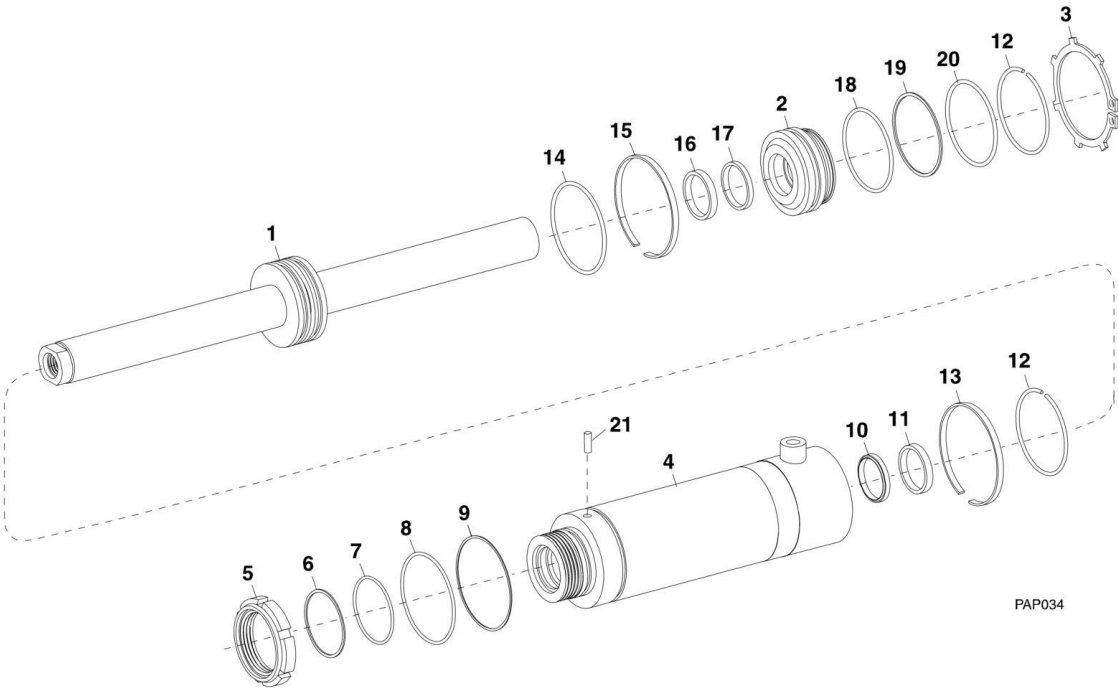
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FIGURE 5-2. FRONT AXLE - HOUSING ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319423	2	GREASE FITTING	
2	1319441	4	CENTERING BUSHING	
3	8035933	2	BRACKET	
4	1319439	2	O-RING	
5	1319440	2	V-RING	
6	8036419	2	FLANGE BUSHING	
7	8036417	1	AXLE DRIVE HOUSING	
8	8036313	6	STUD	
9	1319425	2	O-RING	
10	1319436	1	VENT VALVE	
11	1319429	6	HEX NUT	
12	7027211	2	SHAFT SEAL	
13	1319433	2	BUSHING	
14	70022836	1	AXLE CASING, (right front)	
15	8035927	22	HEX SCREW	
16	70022837	1	AXLE CASING, (left front)	
17	8036331	1	O-RING	
18	1319506	1	SCREW PLUG	
19	8036843	2	TRACK ROD, (includes items 20 thru 23)	
20	8036758	1	LOCKING NUT	
21	8036844	1	BALL JOINT COUPLING, W/PIPE	
22	8036759	1	HEX NUT	
23	8036757	1	AXIAL JOINT COUPLING	
24		Ref	BRAKE HOUSING, (See FRONT AXLE - M-DISC BRAKE for Breakdown)	
25		Ref	STEERING COMPONENTS, (See FRONT AXLE - STEERING COMPONENTS for Breakdown)	
26	8036418	1	SCREW PLUG	

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FIGURE 5-3. FRONT AXLE - STEERING COMPONENTS



PAP034

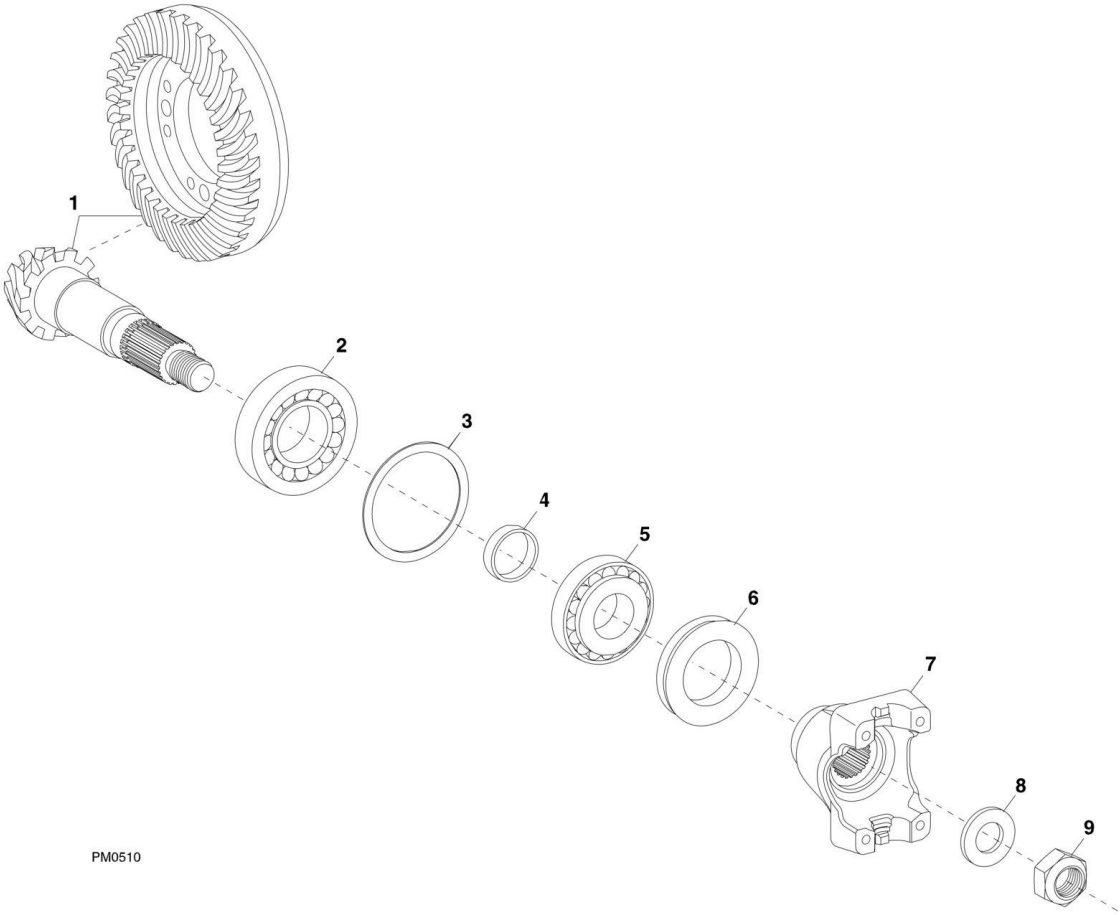
SECTION 5 - DRIVE TRAIN

FIGURE 5-3. FRONT AXLE - STEERING COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021617	1	STEERING CYLINDER ASSY, (includes items 1 thru 21)	
1	70021568	1	PISTON ROD	
2	70021569	1	PIECE GUIDE	
3	70021571	1	L-RING	
4		Ref	CYLINDER TUBE	
5	70021570	1	SLOTTED NUT	
6	Kit	1	SUPPORT RING	
7	Kit	1	O-RING	
8	Kit	1	SUPPORT RING	
9	Kit	1	O-RING	
10	Kit	1	ROD WIPER	
11	Kit	1	U-RING	
12	70021726	2	RETAINING RING	
13	Kit	1	GUIDE RING	
14	Kit	1	GLIDE RING	
15	Kit	1	GUIDE RING	
16	Kit	1	U-RING	
17	Kit	1	ROD WIPER	
18	Kit	1	O-RING	
19	Kit	1	SUPPORT RING	
20	Kit	1	SNAP RING	
21	70022610	1	SLOT PIN	
	70021495	1	SEAL KIT, (includes items 6 thru 11 & 13 thru 20)	

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FIGURE 5-4. FRONT AXLE - GEAR COMPONENTS



PM0510

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FIGURE 5-4. FRONT AXLE - GEAR COMPONENTS

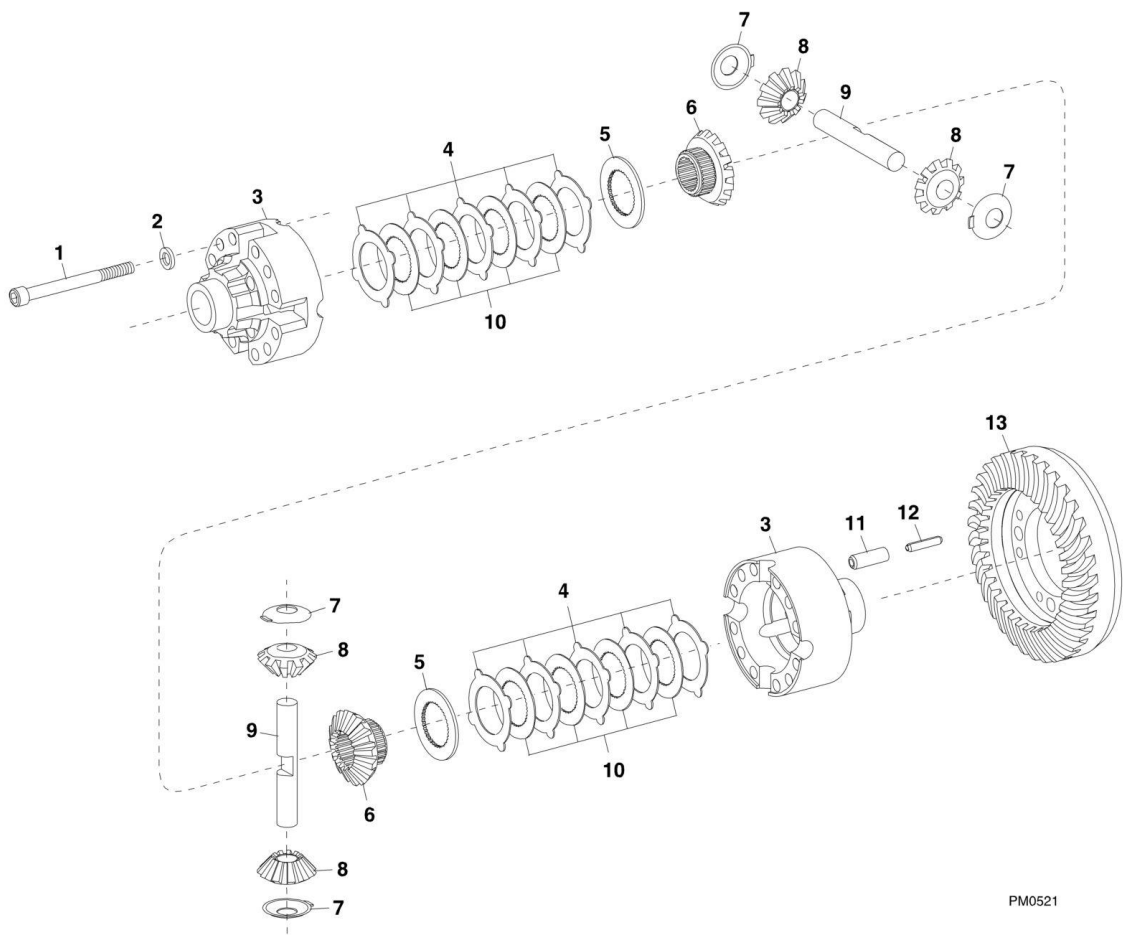
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321230	1	BEVEL GEAR SET	
2	1321213	1	ROLLER BEARING	
3	1321187	AR	SHIM, S=1,5	
3	8035871	AR	SHIM, S=0,9	
3	8035872	AR	SHIM, S=0,95	
3	8035873	AR	SHIM, S=1,0	
3	1321186	AR	SHIM, S=1,05	
3	8035874	AR	SHIM, S=1,1	
3	8035875	AR	SHIM, S=1,15	
3	1321185	AR	SHIM, S=1,2	
3	8035876	AR	SHIM, S=1,25	
3	8035877	AR	SHIM, S=1,3	
3	1321189	AR	SHIM, S=0,7	
3	8035878	AR	SHIM, S=0,75	
3	8035879	AR	SHIM, S=0,8	
3	1321190	AR	SHIM, S=0,85	
4	8035881	1	RING, S=11,30	
4	8035882	1	RING, S=11,33	
4	8035883	1	RING, S=11,36	
4	8035884	1	RING, S=11,39	
4	8035885	1	RING, S=11,42	
4	8035886	1	RING, S=11,45	
4	1321196	1	RING, S=11,48	
4	8035887	1	RING, S=11,51	
4	8035888	1	RING, S=11,54	
4	8035889	1	RING, S=11,57	
4	8035890	1	RING, S=11,60	
4	8035891	1	RING, S=11,63	
4	1321197	1	RING, S=11,66	
4	8035892	1	RING, S=11,69	
4	8035893	1	RING, S=11,72	
4	8035894	1	RING, S=11,75	
4	8035895	1	RING, S=11,78	
4	8035896	1	RING, S=11,81	
4	1321198	1	RING, S=11,84	
4	8035897	1	RING, S=11,87	
4	8035898	1	RING, S=11,90	
4	8035899	1	RING, S=11,93	
4	8035900	1	RING, S=11,96	
4	8035901	1	RING, S=11,99	
4	8035902	1	RING, S=12,02	
4	1321199	1	RING, S=12,05	
4	8035903	1	RING, S=12,08	
4	8035904	1	RING, S=12,11	
4	8035905	1	RING, S=12,14	
4	8035906	1	RING, S=12,17	
4	8036841	1	RING, S=12,20	
4	8035907	1	RING, S=12,23	
4	8035908	1	RING, S=12,26	
4	8035909	1	RING, S=12,29	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	8035910	1	RING, S=12,32	
4	8035911	1	RING, S=12,35	
4	1321201	1	RING, S=12,38	
4	8035912	1	RING, S=11,27	
4	1321204	1	RING, S=11,24	
4	8035913	1	RING, S=11,21	
4	8035914	1	RING, S=11,18	
4	8035915	1	RING, S=11,15	
4	8035916	1	RING, S=11,12	
4	1321203	1	RING, S=11,09	
4	8035917	1	RING, S=11,06	
4	8035918	1	RING, S=11,03	
4	8035919	1	RING, S=11,00	
4	8035920	1	RING, S=10,97	
4	1321202	1	RING, S=10,94	
5	1321212	1	ROLLER BEARING	
6	1321210	1	COMBINATION RING	
7	1321248	1	END YOKE	
8	1321194	1	WASHER	
9	8035921	1	HEX NUT	

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FIGURE 5-5. FRONT AXLE - DIFFERENTIAL



PM0521

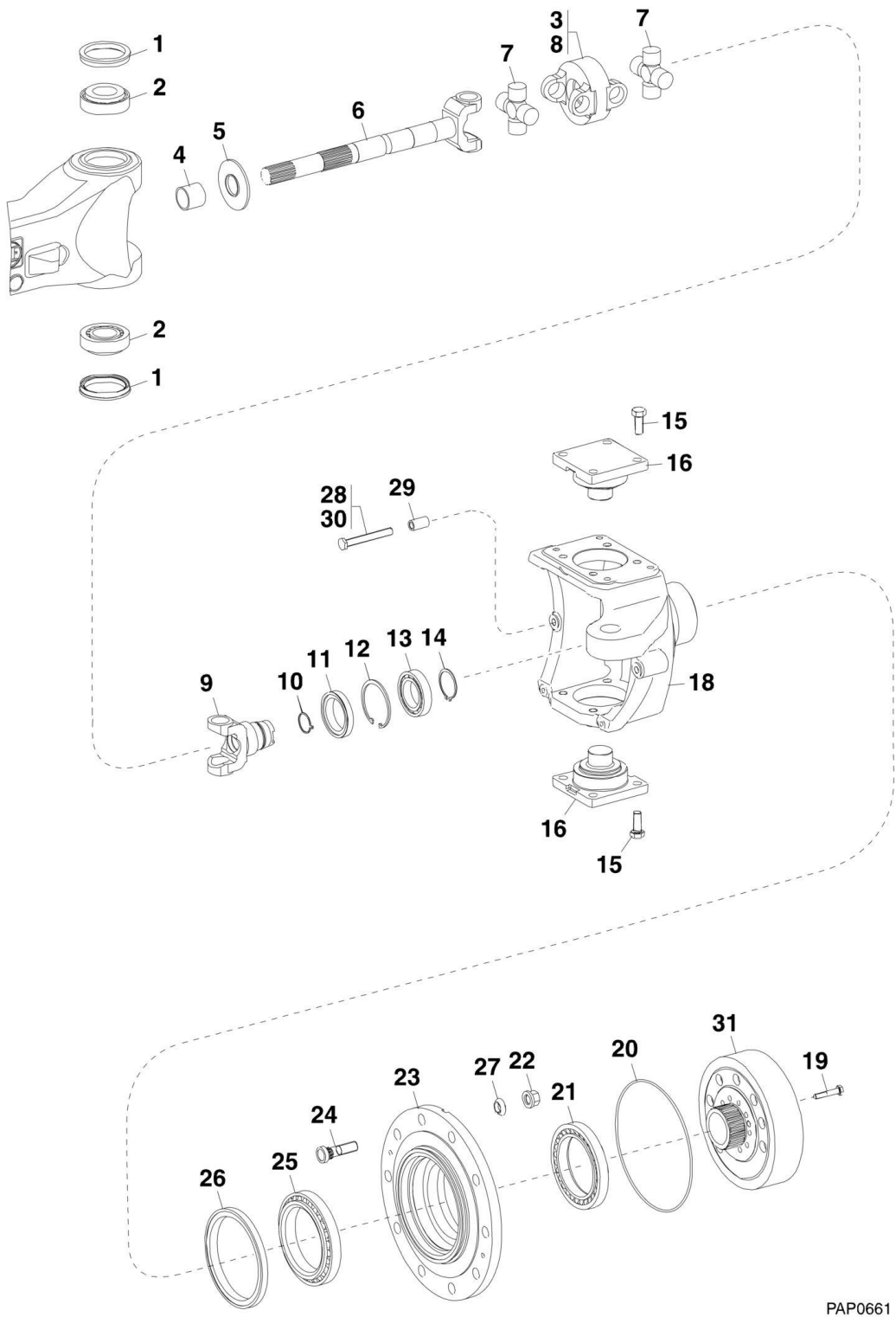
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FIGURE 5-5. FRONT AXLE - DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035923	12	CAPSCREW	
2	1321184	12	WASHER	
3	1321215	1	DIFFERENTIAL CASE	
4	1321219	10	O. CLUTCH DISC, A=1,2	
4	1321220	10	O. CLUTCH DISC, A=1,3	
4	1321221	10	O. CLUTCH DISC, A=1,4	
5	1321217	2	PRESSURE DISC	
6	8036842	2	AXLE BEVEL GEAR	
7	1319415	4	THRUST WASHER	
8	1319414	4	DIFFERENTIAL BEVEL GEAR	
9	1321225	2	DIFFERENTIAL AXLE	
10	1321218	8	I. CLUTCH DISC	
11	1321153	4	SLOTTED PIN	
12	1321154	4	SLOTTED PIN	
13		Ref	BEVEL GEAR SET, (See FRONT AXLE - GEAR COMPONENTS for Breakdown)	

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FIGURE 5-6. FRONT AXLE - JOINT HOUSING



PAP0661

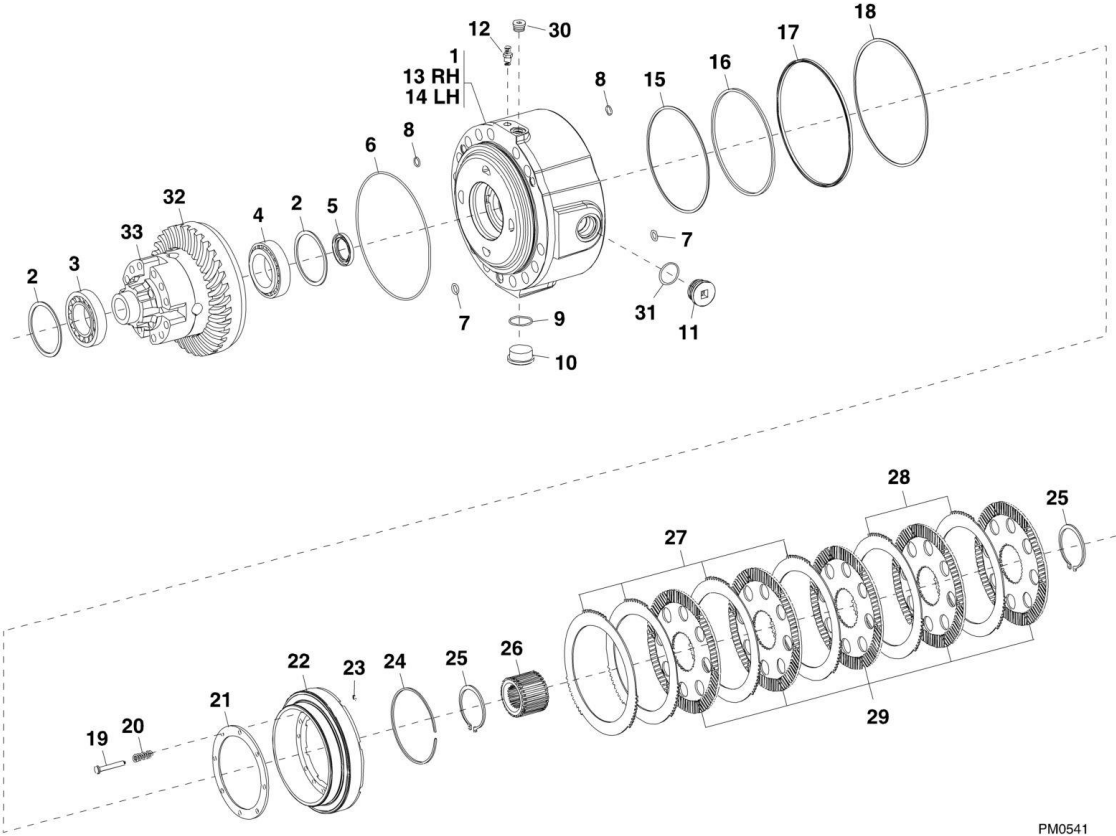
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FIGURE 5-6. FRONT AXLE - JOINT HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319447	4	SHAFT SEAL	
2	1319445	4	ROLLER BEARING	
3	1321175	2	D. UNIVERSAL COUPLING SHAFT, (includes items 4 thru 9)	
4	8035973	1	BUSHING	
5	8035974	1	SCREEN SHEET	
6	8035972	1	JOINT COUPLING FORK	
7	70021790	2	JOINT CROSS	
8	70021789	1	CENTRAL PIECE	
9	8035971	1	JOINT FORK	
10	1321228	2	RETAINING RING	
11	7028977	2	SHAFT SEAL	
12	1319210	2	RETAINING RING	
13	1321157	2	BALL BEARING	
14	80304405	2	RETAINING RING	
15	1319464	16	HEX SCREW	
16	1319462	4	BEARING PIN	
18	70022840	1	JOINT HOUSING, (right side)	
18	70022841	1	JOINT HOUSING, (left side)	
19	8036866	20	HEX SCREW	
20	1321155	2	O-RING	
21	1319472	2	ROLLER BEARING	
22	8786570	20	SPH. COLLAR NUT, (lug nut)	
23	8036472	2	HUB	
24	1101056	20	WHEEL BOLT, (stud)	
25	8036471	2	ROLLER BEARING	
26	80304173	2	SHAFT SEAL	
27	8786571	20	SPRING LOCK WASHER	
28	1319476	2	STOP SCREW	
29	70023329	2	SPACER TUBE	
30	8526007	1	LOCTITE, #242	
31		Ref	RING GEAR, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)	

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FIGURE 5-7. FRONT AXLE - M-DISC BRAKE



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FIGURE 5-7. FRONT AXLE - M-DISC BRAKE

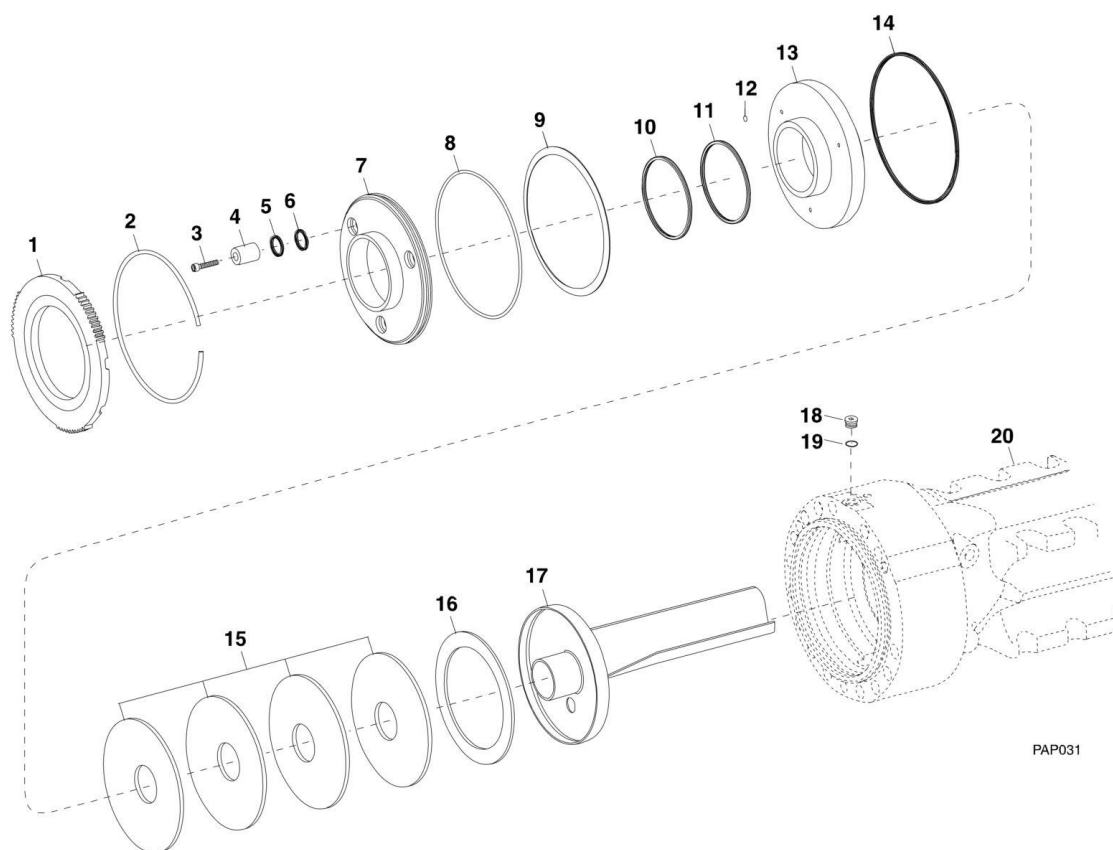
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FRONT AXLE - BRAKES, (not available to order, see items 2 thru 31 for service)	
2	1319531	AR	SHIM, A=0,1	
2	8035945	AR	SHIM, A=0,15	
2	1319530	AR	SHIM, A=0,2	
2	8035946	AR	SHIM, A=0,25	
2	1319529	AR	SHIM, A=0,3	
2	8035947	AR	SHIM, A=0,35	
2	8035951	AR	SHIM, A=0,4	
2	1319543	AR	SHIM, A=0,45	
2	1319527	AR	SHIM, A=0,5	
2	1321158	AR	SHIM, A=0,55	
2	1319526	AR	SHIM, A=0,6	
2	1319532	AR	SHIM, A=0,65	
2	1319533	AR	SHIM, A=0,7	
2	1319534	AR	SHIM, A=0,75	
2	1319525	AR	SHIM, A=0,8	
2	1319535	AR	SHIM, A=0,85	
2	1319536	AR	SHIM, A=0,9	
2	1319537	AR	SHIM, A=0,95	
2	1319524	AR	SHIM, A=1,0	
2	1319545	AR	SHIM, A=1,05	
2	1319538	AR	SHIM, A=1,10	
2	1319539	AR	SHIM, A=1,15	
2	1319523	AR	SHIM, A=1,20	
2	1319540	AR	SHIM, A=1,25	
2	1319541	AR	SHIM, A=1,30	
2	1319542	AR	SHIM, A=1,35	
2	1319522	AR	SHIM, A=1,40	
2	1319521	AR	SHIM, A=1,45	
2	1319520	AR	SHIM, A=1,50	
2	1319519	AR	SHIM, A=1,55	
2	1319518	AR	SHIM, A=1,60	
2	1319517	AR	SHIM, A=1,65	
2	1319510	AR	SHIM, A=2,0	
2	1321159	AR	SHIM, A=1,47	
2	8035948	AR	SHIM, A=1,63	
2	1319516	AR	SHIM, A=1,70	
2	1319515	AR	SHIM, A=1,75	
2	1319514	AR	SHIM, A=1,80	
2	1319513	AR	SHIM, A=1,85	
2	1319512	AR	SHIM, A=1,90	
2	1319511	AR	SHIM, A=1,95	
3	8036445	1	ROLLER BEARING	
4	8036447	1	ROLLER BEARING	
5	8036444	2	SHAFT SEAL	
6	1319425	2	O-RING	
7	8036847	4	O-RING	
8	1319491	8	O-RING	
9	8036331	2	O-RING	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	1319431	2	SCREW PLUG	
11	1319506	2	SCREW PLUG	
12	1319505	2	VENT VALVE	
13	70022838	1	BRAKE HOUSING, (right side)	
14	70022839	1	BRAKE HOUSING, (left side)	
15	1321151	2	SUPPORT RING	
16	1321162	2	U-RING	
17	1321163	2	U-RING	
18	1321152	2	SUPPORT RING	
19	1319496	16	PIN	
20	1319497	16	COMPRESSION SPRING	
21	8036305	2	WASHER	
22	8036304	2	PISTON	
23	1319499	16	CRESCENT RING	
24	1319504	2	SNAP RING	
25	10731949	4	RETAINING RING	
26	70020409	2	DISC CARRIER	
27	70020487	8	O. CLUTCH DISC, S=3,0	
28	70020485	4	O. CLUTCH DISC, S=2,0	
28	70020486	4	O. CLUTCH DISC, S=2,5	
28	70020487	4	O. CLUTCH DISC, S=3,0	
29	70020408	10	I. CLUTCH DISC	
30	70022777	2	SCREW PLUG	
31	8036331	2	O-RING	
32		Ref	BEVEL GEAR SET, (See FRONT AXLE - GEAR COMPONENTS for Breakdown)	
33		Ref	DIFFERENTIAL CASE, (See FRONT AXLE – DIFFERENTIAL for Breakdown)	

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FIGURE 5-8. FRONT AXLE - BRAKE



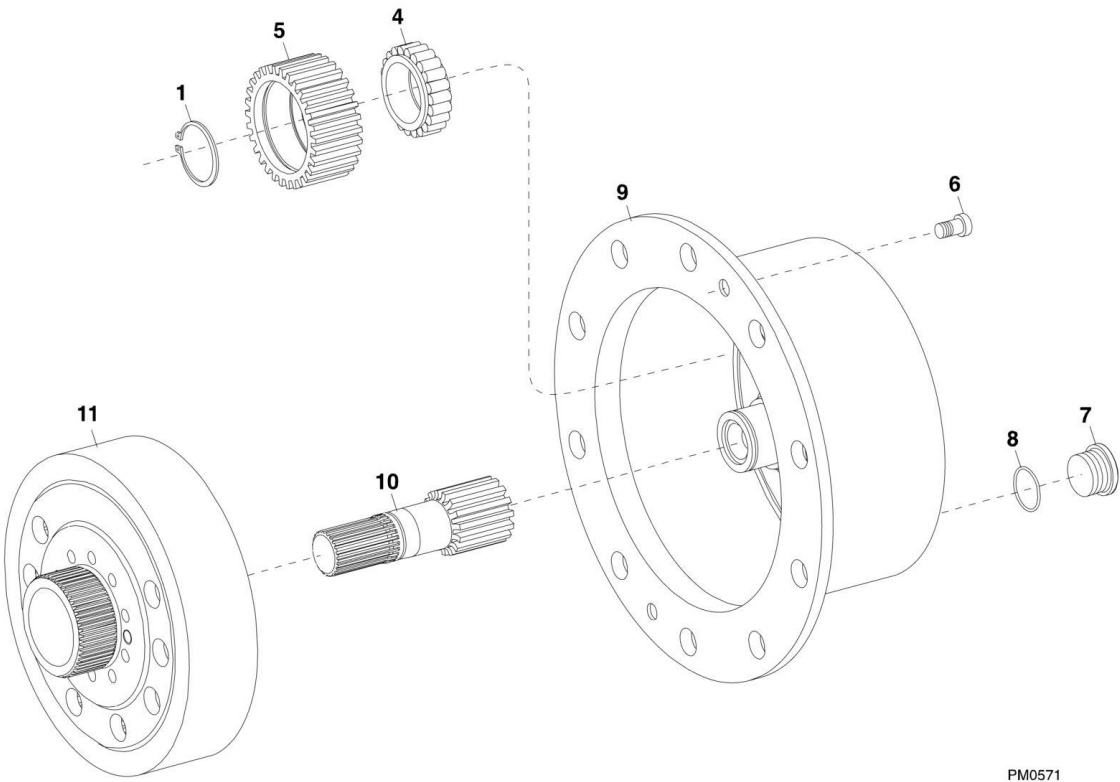
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FIGURE 5-8. FRONT AXLE - BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70020413	2	END SHIM	
2	1321206	2	RING	
3	8036321	6	CAPSCREW	
4	8036858	6	PRESSURE PIN	
5	8036862	6	O-RING	
6	8036861	6	U-RING	
7	8036849	2	SEALING WASHER	
8	8036320	2	O-RING	
9	1321208	2	CUP SPRING	
10	8036855	2	BACKUP RING	
11	8036853	2	FOUR-LIP RING	
12	8036859	6	O-RING	
13	7027212	2	PISTON	
14	8036852	2	U-RING	
15	1321207	8	CUP SPRING	
16	8035958	2	SPACING WASHER	
17	8036856	2	OIL DAM	
18	1319666	2	SCREW PLUG	
19	7027217	2	O-RING	
20		Ref	AXLE CASING, (See FRONT AXLE - HOUSING ASSEMBLY for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-9. FRONT AXLE - PLANETARY DRIVE



PM0571

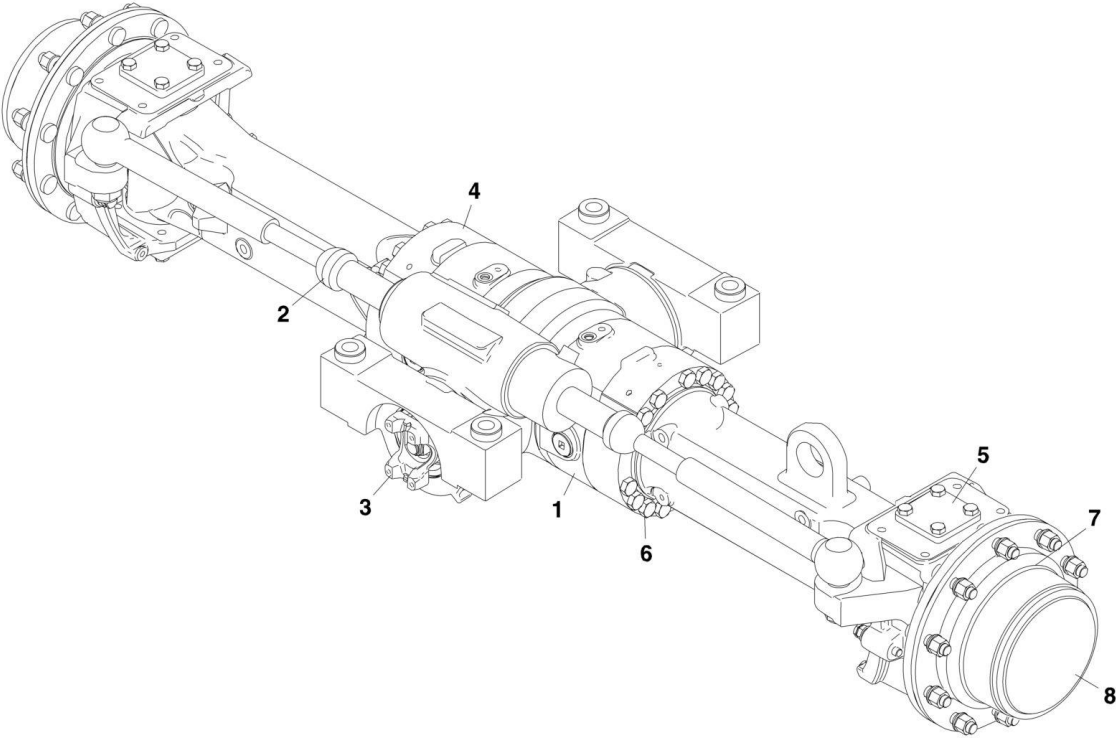
SECTION 5 - DRIVE TRAIN

FIGURE 5-9. FRONT AXLE - PLANETARY DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80304227	3	RETAINING RING	
4	70023330	3	CYL ROLLER BEARING	
5	70022271	3	PLANET GEAR	
6	8035977	4	CAPSCREW	
7	1319506	2	SCREW PLUG	
8	8036331	2	O-RING	
9	70023261	2	PLANET CARRIER	
10	1321255	2	SUN GEAR SHAFT	
11	1321258	2	RING GEAR	

SECTION 5 - DRIVE TRAIN

FIGURE 5-10. REAR AXLE



PM1580

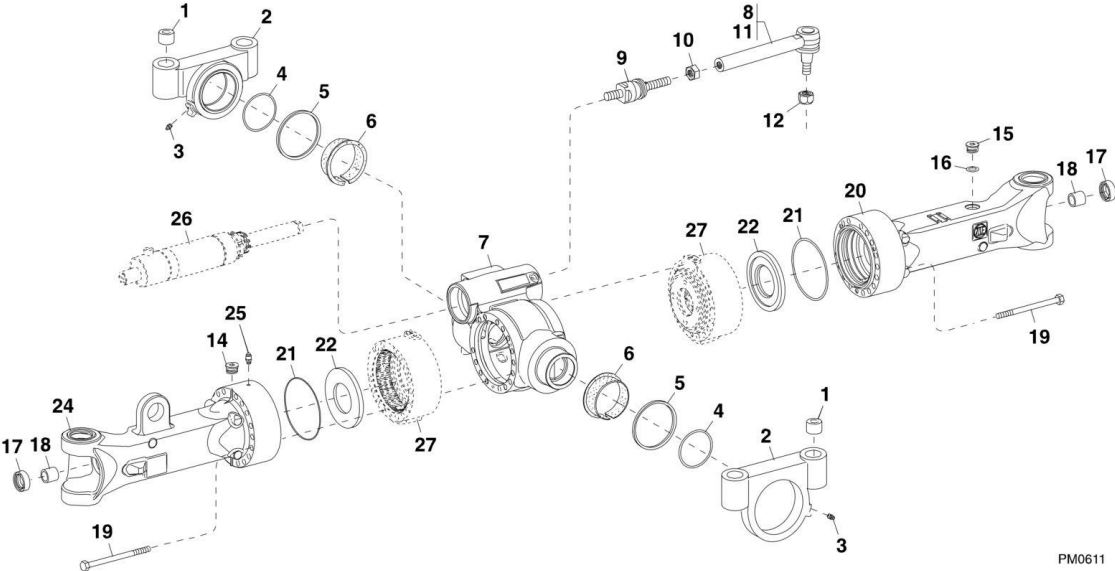
SECTION 5 - DRIVE TRAIN

FIGURE 5-10. REAR AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8040290B	1	REAR AXLE, (includes all items)	AA
		Ref	AXLE HOUSING, (See REAR AXLE - HOUSING ASSEMBLY for Breakdown)	
2		Ref	STEERING COMPONENTS, (See REAR AXLE - STEERING COMPONENTS for Breakdown)	
3		Ref	BEVEL GEAR SET, (See REAR AXLE - GEAR COMPONENTS for Breakdown)	
4		Ref	DIFFERENTIAL, (See REAR AXLE - DIFFERENTIAL for Breakdown)	
5		Ref	JOINT HOUSING, (See REAR AXLE - JOINT HOUSING for Breakdown)	
6		Ref	BRAKES, (See REAR AXLE - BRAKES for Breakdown)	
7		Ref	WHEEL HUB, (See REAR AXLE - WHEEL HUB for Breakdown)	
8		Ref	PLANETARY DRIVE, (See REAR AXLE - PLANETARY DRIVE for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-11. REAR AXLE - HOUSING ASSEMBLY



PM0611

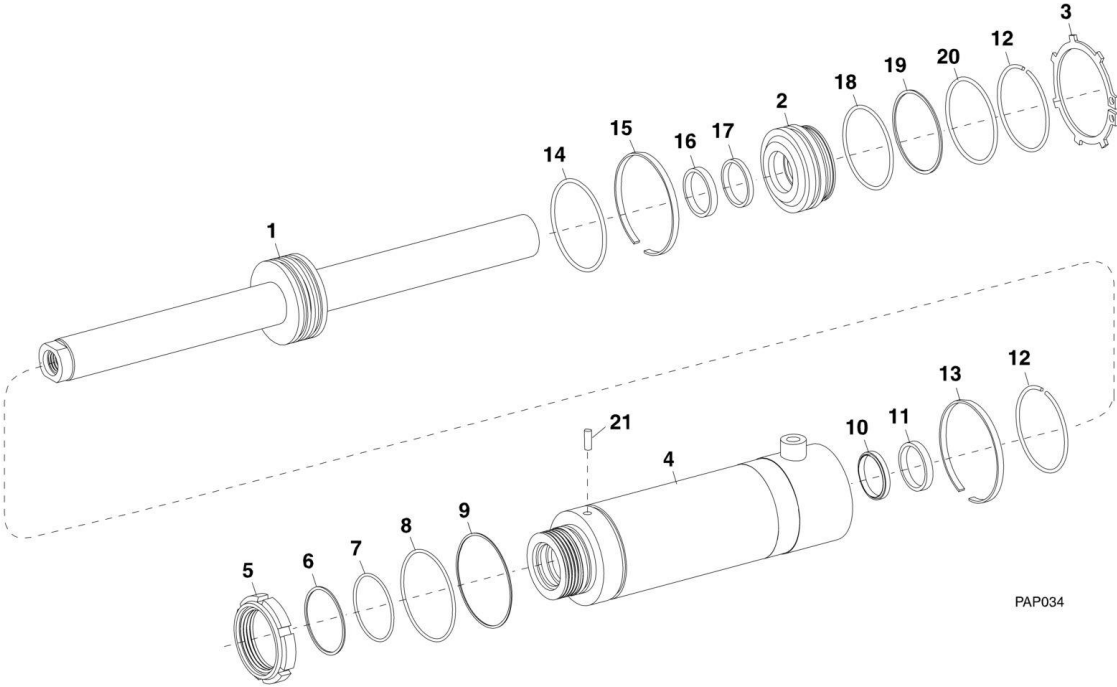
SECTION 5 - DRIVE TRAIN

FIGURE 5-11. REAR AXLE - HOUSING ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319441	4	CENTERING BUSHING	
2	8035933	2	BRACKET	
3	1319423	2	GREASE FITTING	
4	1319439	2	O-RING	
5	1319440	2	V-RING	
6	8036419	2	FLANGE BUSHING	
7	70021111	1	AXLE DRIVE HOUSING	
8	8036843	2	TRACK ROD, (includes items 9 thru 12)	
9	8036757	2	AXIAL JOINT COUPLING	
10	8036759	2	HEX NUT	
11	8036844	2	BALL JOINT W/PIPE COUPLING	
12	8036758	2	LOCKNUT	
14	8036418	1	SCREW PLUG	
15	1319506	1	SCREW PLUG	
16	8036331	1	O-RING	
17	7027211	2	SHAFT SEAL	
18	1319433	2	BUSHING	
19	8035927	28	HEX SCREW	
20	70022849	1	AXLE CASING, (right rear)	
21	1319425	2	O-RING	
22	70020413	2	END SHIM	
24	70022848	1	AXLE CASING, (left rear)	
25	1319436	1	VENT VALVE	
26		Ref	STEERING COMPONENTS, (See REAR AXLE - STEERING COMPONENTS for Breakdown)	
27		Ref	DIFFERENTIAL CASING, (See REAR AXLE - DIFFERENTIAL for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-12. REAR AXLE - STEERING COMPONENTS



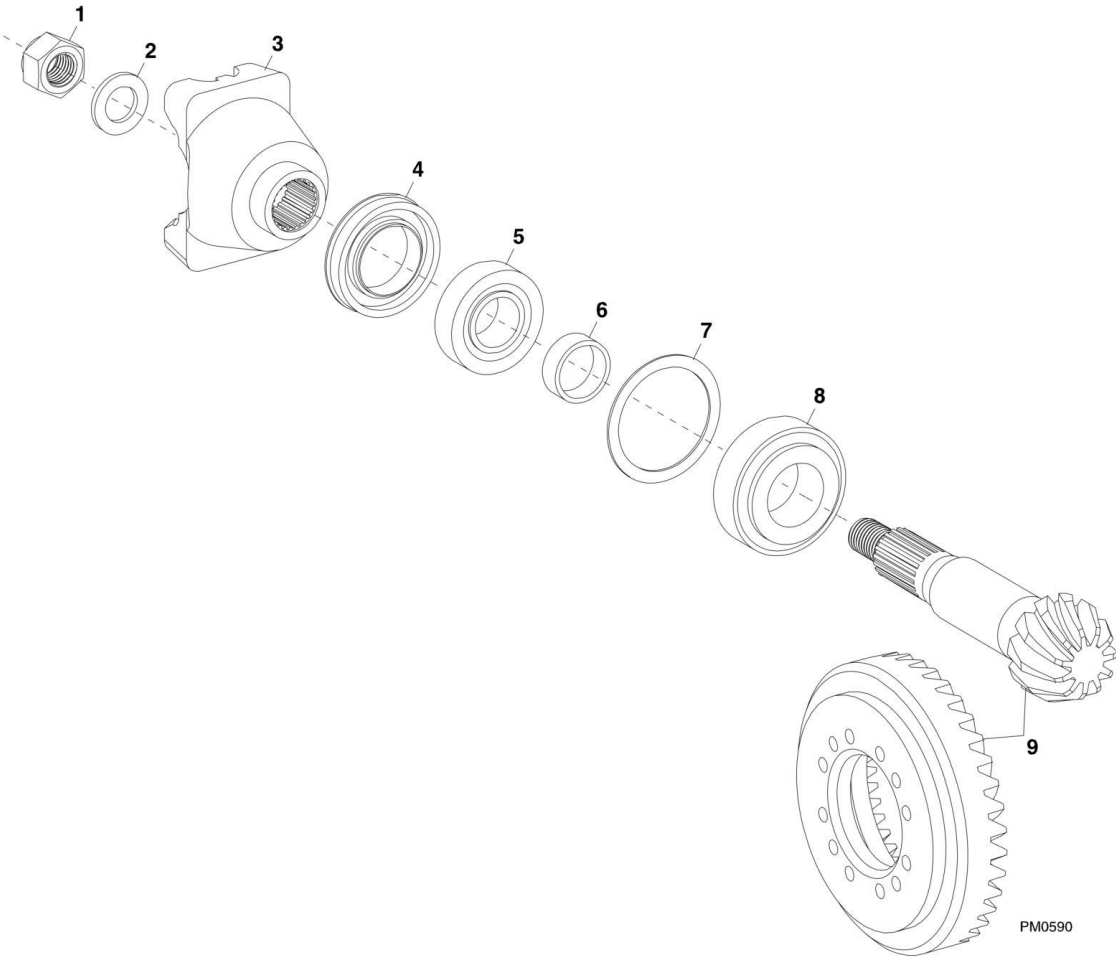
SECTION 5 - DRIVE TRAIN

FIGURE 5-12. REAR AXLE - STEERING COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021617	1	STEERING CYLINDER ASSY, (includes items 1 thru 21)	
1	70021568	1	PISTON ROD	
2	70021569	1	PIECE GUIDE	
3	70021571	1	L-RING	
4		Ref	CYLINDER TUBE	
5	70021570	1	SLOTTED NUT	
6	Kit	1	SUPPORT RING	
7	Kit	1	O-RING	
8	Kit	1	SUPPORT RING	
9	Kit	1	O-RING	
10	Kit	1	ROD WIPER	
11	Kit	1	U-RING	
12	70021726	2	RETAINING RING	
13	Kit	1	GUIDE RING	
14	Kit	1	GLIDE RING	
15	Kit	1	GUIDE RING	
16	Kit	1	U-RING	
17	Kit	1	ROD WIPER	
18	Kit	1	O-RING	
19	Kit	1	SUPPORT RING	
20	Kit	1	SNAP RING	
21	70022610	1	SLOT PIN	
	70021495	1	SEAL KIT, (includes items 6 thru 11 & 13 thru 20)	

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FIGURE 5-13. REAR AXLE - GEAR COMPONENTS



SECTION 5 - DRIVE TRAIN

FIGURE 5-13. REAR AXLE - GEAR COMPONENTS

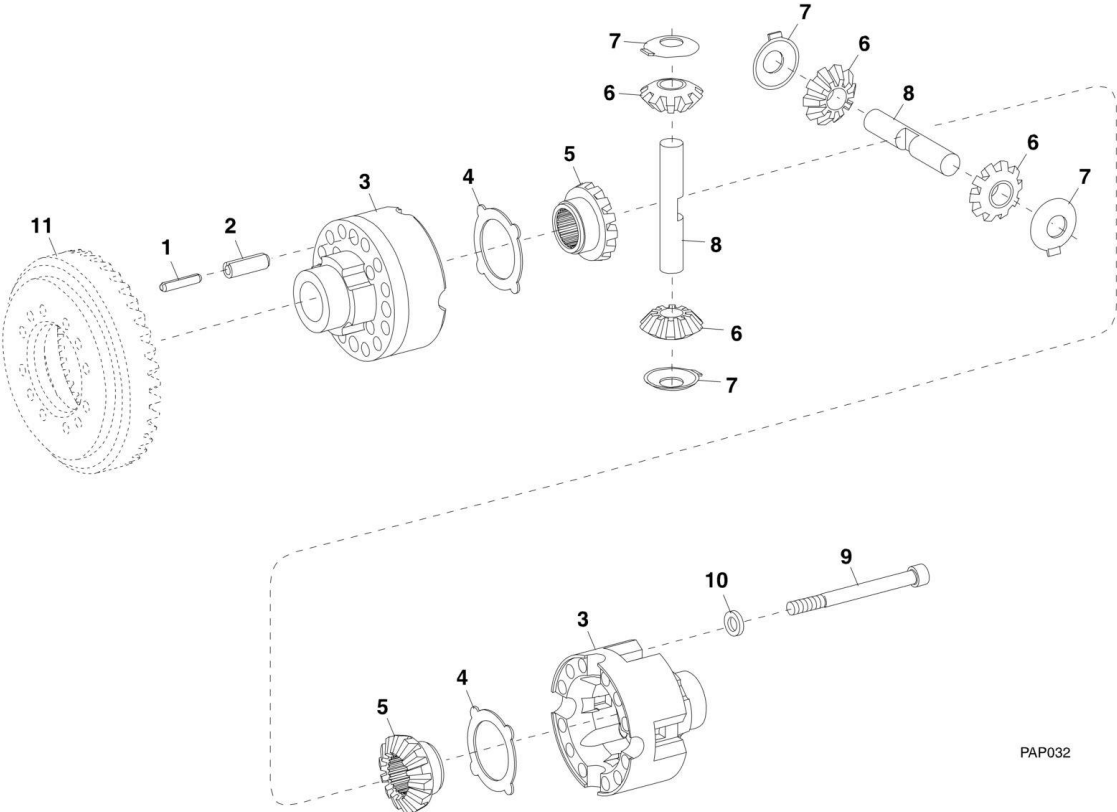
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035983	1	HEX NUT	
2	1319406	1	WASHER	
3	1321237	1	END YOKE	
4	1321211	1	COMBINATION RING	
5	1319444	1	ROLLER BEARING	
6	1319354	1	RING, S=15,1	
6	1319355	1	RING, S=15,2	
6	1319356	1	RING, S=15,3	
6	1319357	1	RING, S=15,4	
6	1319358	1	RING, S=15,5	
6	1319359	1	RING, S=15,6	
6	1319360	1	RING, S=15,7	
6	1319361	1	RING, S=15,8	
6	1319362	1	RING, S=15,9	
6	1319363	1	RING, S=16,0	
6	1319364	1	RING, S=16,1	
6	1319365	1	RING, S=16,2	
6	1319366	1	RING, S=16,3	
6	1319367	1	RING, S=16,4	
6	8035982	1	RING, S=16,26	
6	1319369	1	RING, S=16,23	
6	1319370	1	RING, S=16,16	
6	1319371	1	RING, S=16,13	
6	1319372	1	RING, S=16,06	
6	1319373	1	RING, S=16,03	
6	1319374	1	RING, S=15,96	
6	1319375	1	RING, S=15,93	
6	1319376	1	RING, S=15,86	
6	1319377	1	RING, S=15,83	
6	1319378	1	RING, S=15,76	
6	1319379	1	RING, S=15,73	
6	1319380	1	RING, S=15,66	
6	1319381	1	RING, S=15,63	
6	1319382	1	RING, S=15,56	
6	1319383	1	RING, S=15,53	
6	1319384	1	RING, S=15,46	
6	1319385	1	RING, S=15,43	
6	1319386	1	RING, S=15,36	
6	1319387	1	RING, S=15,33	
6	1319388	1	RING, S=15,26	
6	1319389	1	RING, S=15,38	
6	1319390	1	RING, S=15,48	
6	1319391	1	RING, S=15,58	
6	1319392	1	RING, S=15,68	
6	1319393	1	RING, S=15,69	
6	1319394	1	RING, S=15,72	
6	1319395	1	RING, S=15,78	
6	1319396	1	RING, S=15,81	
6	1319397	1	RING, S=15,84	
6	1319398	1	RING, S=15,88	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6	1319399	1	RING, S=15,89	
6	1319400	1	RING, S=15,91	
6	1319401	1	RING, S=15,94	
6	1319402	1	RING, S=15,97	
7	1319333	AR	WASHER, S=1,0	
7	1319334	AR	WASHER, S=1,05	
7	1319335	AR	WASHER, S=1,1	
7	1319336	AR	WASHER, S=1,15	
7	1319337	AR	WASHER, S=1,2	
7	1319338	AR	WASHER, S=1,25	
7	1319339	AR	WASHER, S=1,3	
7	1319340	AR	WASHER, S=1,35	
7	1319341	AR	WASHER, S=1,4	
7	1319342	AR	WASHER, S=1,45	
7	1319343	AR	WASHER, S=1,5	
7	1319344	AR	WASHER, S=1,55	
7	1319345	AR	WASHER, S=1,6	
7	1319346	AR	WASHER, S=0,9	
7	1319347	AR	WASHER, S=0,95	
7	1319348	AR	WASHER, S=0,65	
7	1319349	AR	WASHER, S=0,70	
7	1319350	AR	WASHER, S=0,75	
7	1319351	AR	WASHER, S=0,85	
7	1319352	AR	WASHER, S=0,80	
8	1319353	1	ROLLER BEARING	
9	8036751	1	BEVEL GEAR SET	

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FIGURE 5-14. REAR AXLE - DIFFERENTIAL



PAP032

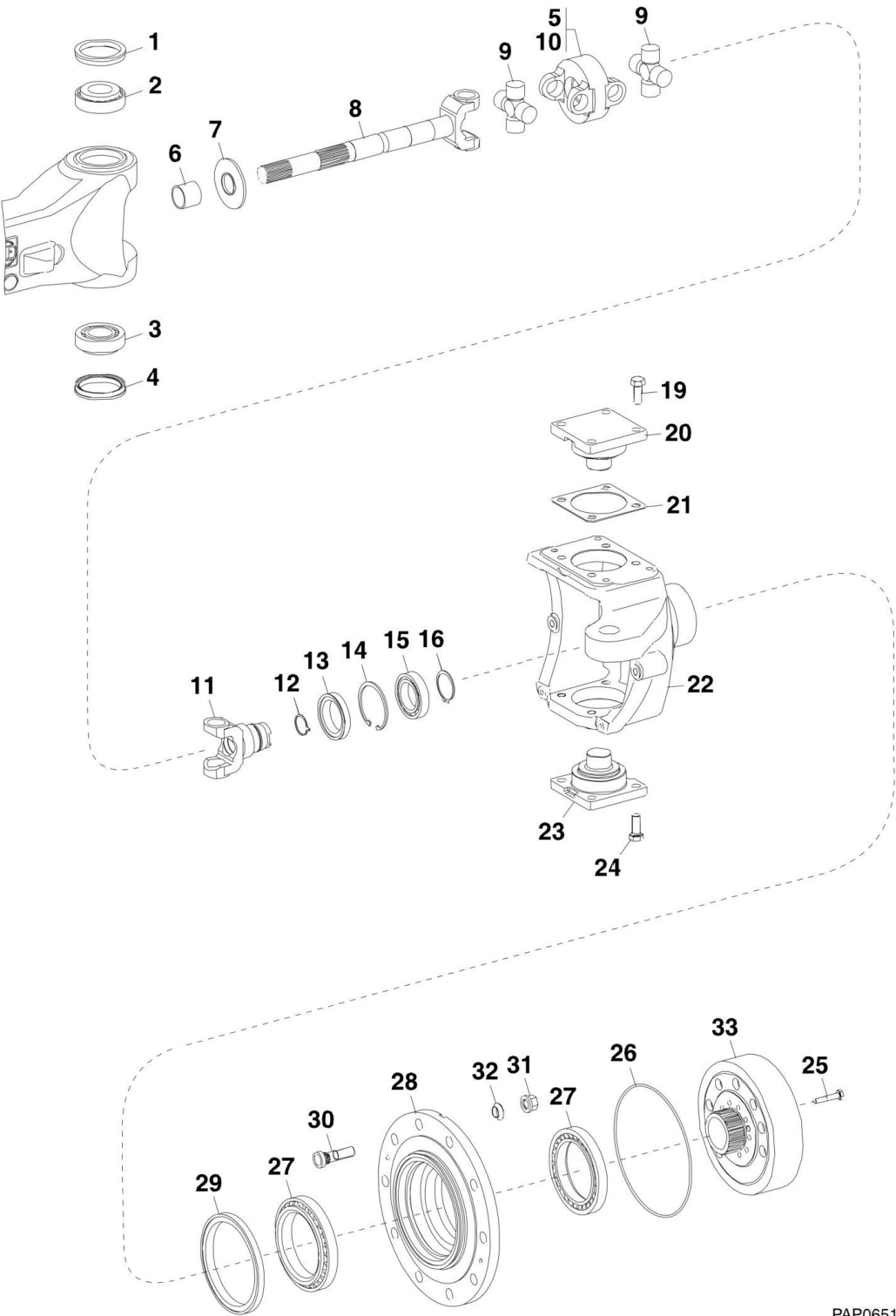
SECTION 5 - DRIVE TRAIN

FIGURE 5-14. REAR AXLE - DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321154	4	PIN, SLOT.	
2	1321153	4	PIN, SLOT.	
3	1321215	1	DIFFERENTIAL CASE	
4	1319412	2	THRUST WASHER	
5	8036752	2	AXLE BEVEL GEAR	
6	1319414	4	DIFFERENTIAL BEVEL GEAR	
7	1319415	4	THRUST WASHER	
8	1321225	2	DIFFERENTIAL AXLE	
9	8035923	12	CAPSCREW	
10	1321184	12	WASHER	
11		Ref	BEVEL GEAR SET, (See REAR AXLE - GEAR COMPONENTS for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-15. REAR AXLE - JOINT HOUSING



PAP0651

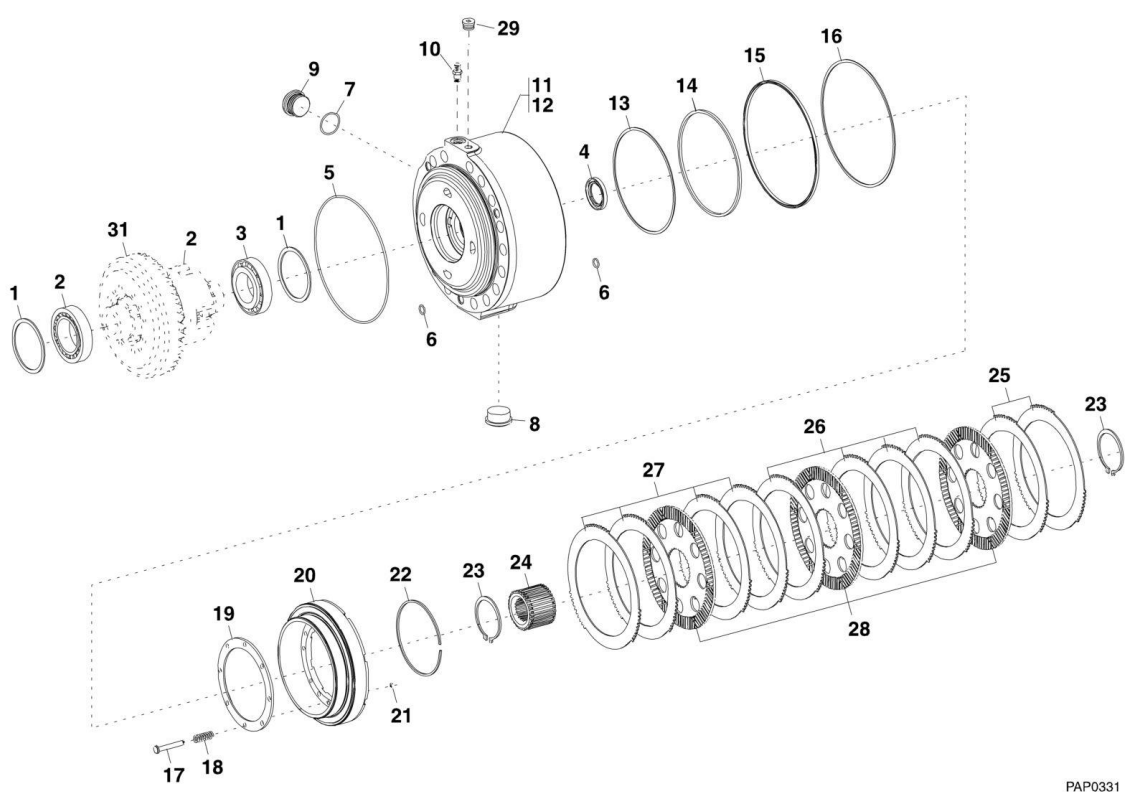
SECTION 5 - DRIVE TRAIN

FIGURE 5-15. REAR AXLE - JOINT HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036338	2	MULTI SEAL RING	
2	1319444	2	ROLLER BEARING	
3	1319445	2	ROLLER BEARING	
4	1319447	2	SHAFT SEAL	
5	7028979	2	D. UNIVERSAL COUPLING SHAFT, (includes items 6 thru 11)	
6	8035973	1	BUSHING	
7	8035996	1	SCREEN SHEET	
8	8035995	1	JOINT COUPLING FORK	
9	70021554	2	JOINT CROSS	
10	70021553	1	CENTRAL PIECE	
11	8035994	1	JOINT FORK	
12	1321226	2	RETAINING RING	
13	7028977	2	SHAFT SEAL	
14	1319210	2	RETAINING RING	
15	1321157	2	BALL BEARING	
16	80304405	2	RETAINING RING	
19	1319463	8	HEX SCREW	
20	1319461	2	BEARING PIN	
21	1319448	1	SHIM, S=0,2	
21	1319449	1	SHIM, S=0,3	
21	1319450	1	SHIM, S=0,4	
21	1319451	1	SHIM, S=0,6	
21	1319452	1	SHIM, S=0,8	
21	1319453	1	SHIM, S=1,0	
21	1319454	1	SHIM, S=1,2	
21	1319455	1	SHIM, S=1,4	
21	1319456	1	SHIM, S=1,6	
21	1319457	1	SHIM, S=1,8	
21	1319458	1	SHIM, S=2,0	
21	1319459	1	SHIM, S=0,7	
21	1319460	1	SHIM, S=0,5	
22	8036743	1	JOINT HOUSING, (left side)	
22	8036742	1	JOINT HOUSING, (right side)	
23	1319462	2	BEARING PIN	
24	1319464	8	HEX SCREW	
25	8035997	20	HEX SCREW	
26	1321155	2	O-RING	
27	1319472	4	ROLLER BEARING	
28	1321239	2	HUB	
29	80304173	2	SHAFT SEAL	
30	1101056	20	WHEEL BOLT	
31	8786570	20	SPH. COLLAR NUT, (lug nut)	
32	8786571	20	SPRING WASHER	
33		Ref	RING GEAR, (See REAR AXLE - PLANETARY DRIVE for Breakdown)	

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FIGURE 5-16. REAR AXLE - BRAKES



PAP0331

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FIGURE 5-16. REAR AXLE - BRAKES

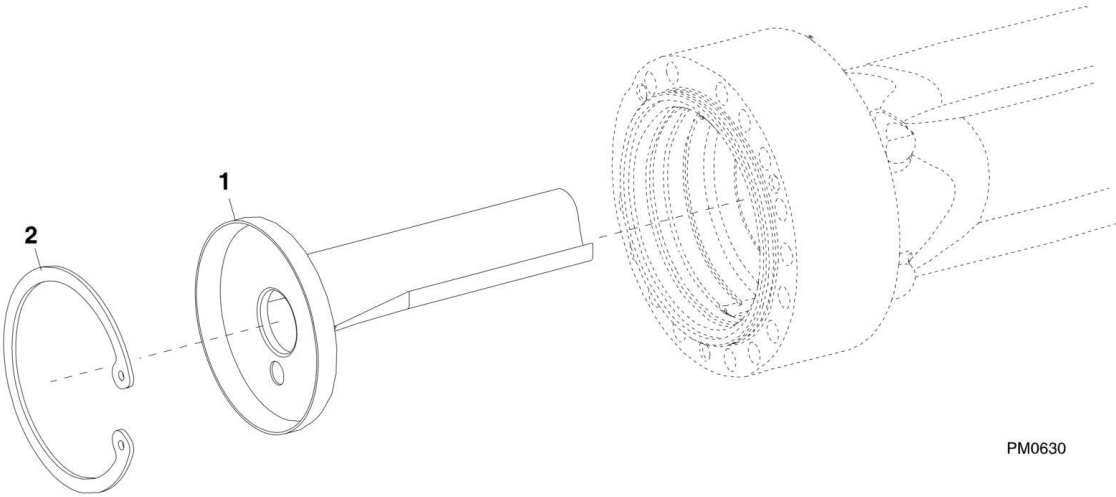
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	REAR AXLE - BRAKES, (not available to order, see items 1 thru 26 for service)	
1	1319531	AR	SHIM, A=0,1	
1	8035945	AR	SHIM, A=0,15	
1	1319530	AR	SHIM, A=0,2	
1	8035946	AR	SHIM, A=0,25	
1	1319529	AR	SHIM, A=0,3	
1	8035947	AR	SHIM, A=0,35	
1	8035951	AR	SHIM, A=0,4	
1	1319543	AR	SHIM, A=0,45	
1	1319527	AR	SHIM, A=0,5	
1	1321158	AR	SHIM, A=0,55	
1	1319526	AR	SHIM, A=0,6	
1	1319532	AR	SHIM, A=0,65	
1	1319533	AR	SHIM, A=0,7	
1	1319534	AR	SHIM, A=0,75	
1	1319525	AR	SHIM, A=0,8	
1	1319535	AR	SHIM, A=0,85	
1	1319536	AR	SHIM, A=0,9	
1	1319537	AR	SHIM, A=0,95	
1	1319524	AR	SHIM, A=1,0	
1	1319545	AR	SHIM, A=1,05	
1	1319538	AR	SHIM, A=1,10	
1	1319539	AR	SHIM, A=1,15	
1	1319523	AR	SHIM, A=1,20	
1	1319540	AR	SHIM, A=1,25	
1	1319541	AR	SHIM, A=1,30	
1	1319542	AR	SHIM, A=1,35	
1	1319522	AR	SHIM, A=1,40	
1	1319521	AR	SHIM, A=1,45	
1	1319520	AR	SHIM, A=1,50	
1	1319519	AR	SHIM, A=1,55	
1	1319518	AR	SHIM, A=1,60	
1	1319517	AR	SHIM, A=1,65	
1	1319510	AR	SHIM, A=2,0	
1	1321159	AR	SHIM, A=1,47	
1	8035948	AR	SHIM, A=1,63	
1	1319516	AR	SHIM, A=1,70	
1	1319515	AR	SHIM, A=1,75	
1	1319514	AR	SHIM, A=1,80	
1	1319513	AR	SHIM, A=1,85	
1	1319512	AR	SHIM, A=1,90	
1	1319511	AR	SHIM, A=1,95	
2	8036447	1	ROLLER BEARING	
3	8036445	1	ROLLER BEARING	
4	8036444	2	SHAFT SEAL	
5	1319425	2	O-RING	
6	1319491	12	O-RING	
7	8036331	4	O-RING	
8	1319431	2	SCREW PLUG	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
9	1319506	2	SCREW PLUG	
10	1319505	2	VENT VALVE	
11	70020483	1	BRAKE HOUSING, (left side)	
12	70020484	1	BRAKE HOUSING, (right side)	
13	1321151	2	SUPPORT RING	
14	1321162	2	U-RING	
15	1321163	2	U-RING	
16	1321152	2	SUPPORT RING	
17	1319496	16	PIN	
18	1319497	16	COMPRESSION SPRING	
19	8036305	2	WASHER	
20	8036304	2	PISTON	
21	1319499	16	CRESCENT RING	
22	1319504	2	SNAP RING	
23	10731949	4	RETAINING RING	
24	70020409	2	DISC CARRIER	
25	70020486	4	O. CLUTCH DISC, S=2,5	
25	70020487	4	O. CLUTCH DISC, S=3,0	
25	70020485	4	O. CLUTCH DISC, S=2,0	
26	70020487	8	O. CLUTCH DISC, S=3,0	
27	70020486	8	O. CLUTCH DISC, S=2,5	
28	70020408	6	I. CLUTCH DISC	
29	70022777	2	SCREW PLUG	
31		Ref	BEVEL GEAR SET, (See REAR AXLE - GEAR COMPONENTS for Breakdown)	
32		Ref	DIFFERENTIAL CASE, (See REAR AXLE – DIFFERENTIAL for Breakdown)	

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FIGURE 5-17. REAR AXLE - WHEEL HUB



PM0630

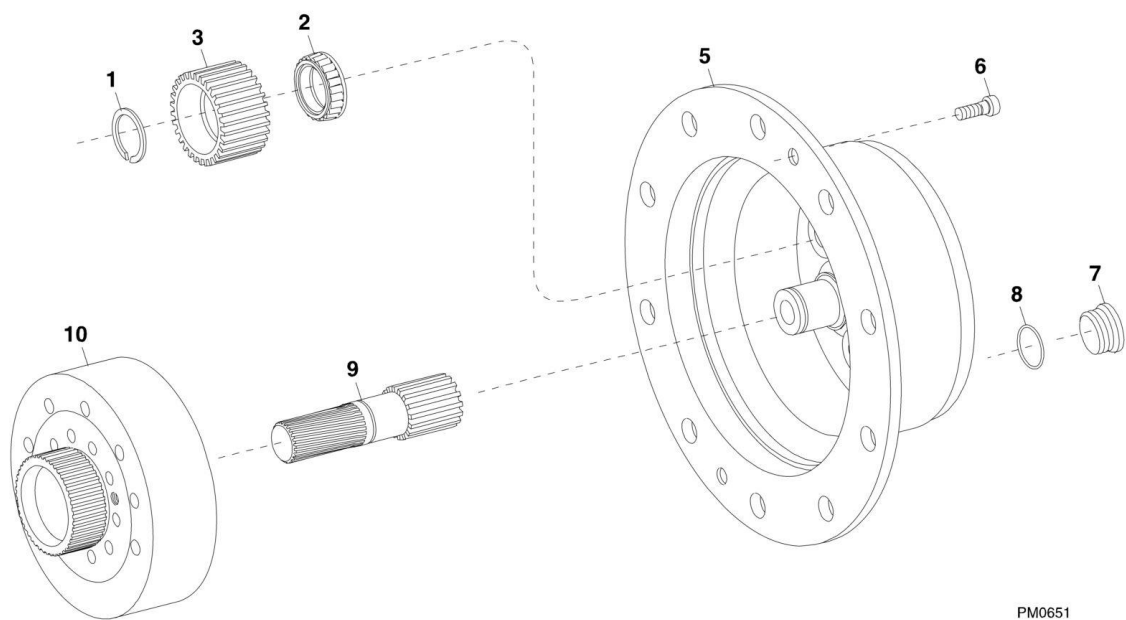
SECTION 5 - DRIVE TRAIN

FIGURE 5-17. REAR AXLE - WHEEL HUB

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

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FIGURE 5-18. REAR AXLE - PLANETARY DRIVE



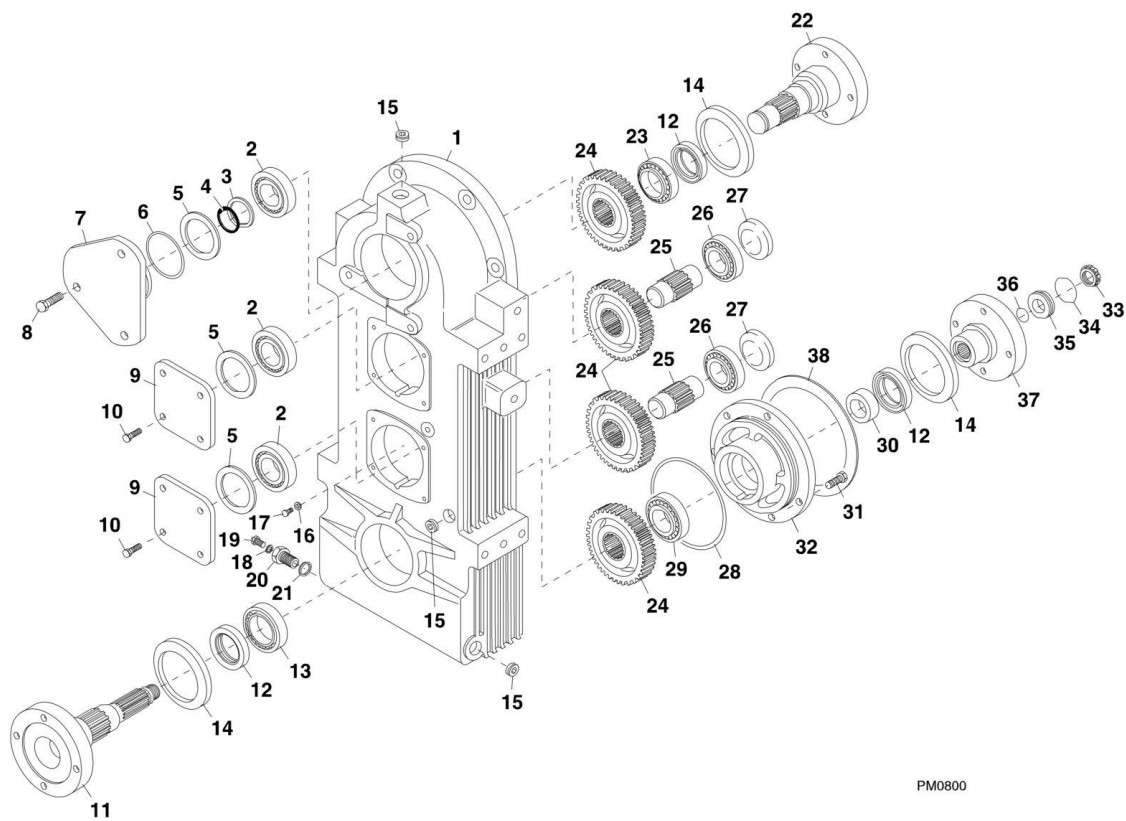
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FIGURE 5-18. REAR AXLE - PLANETARY DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70022197	4	RETAINING RING	
2	70022785	4	CYL ROLLER BEARING	
3	70022243	4	PLANET GEAR	
5	70023262	2	PLANET CARRIER	
6	8035977	4	CAPSCREW	
7	1319506	2	PLUG SCREW	
8	8036331	2	O-RING	
9	1321242	2	SUN GEAR SHAFT	
10	1321247	2	RING GEAR	

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FIGURE 5-19. TRANSFER BOX



PM0800

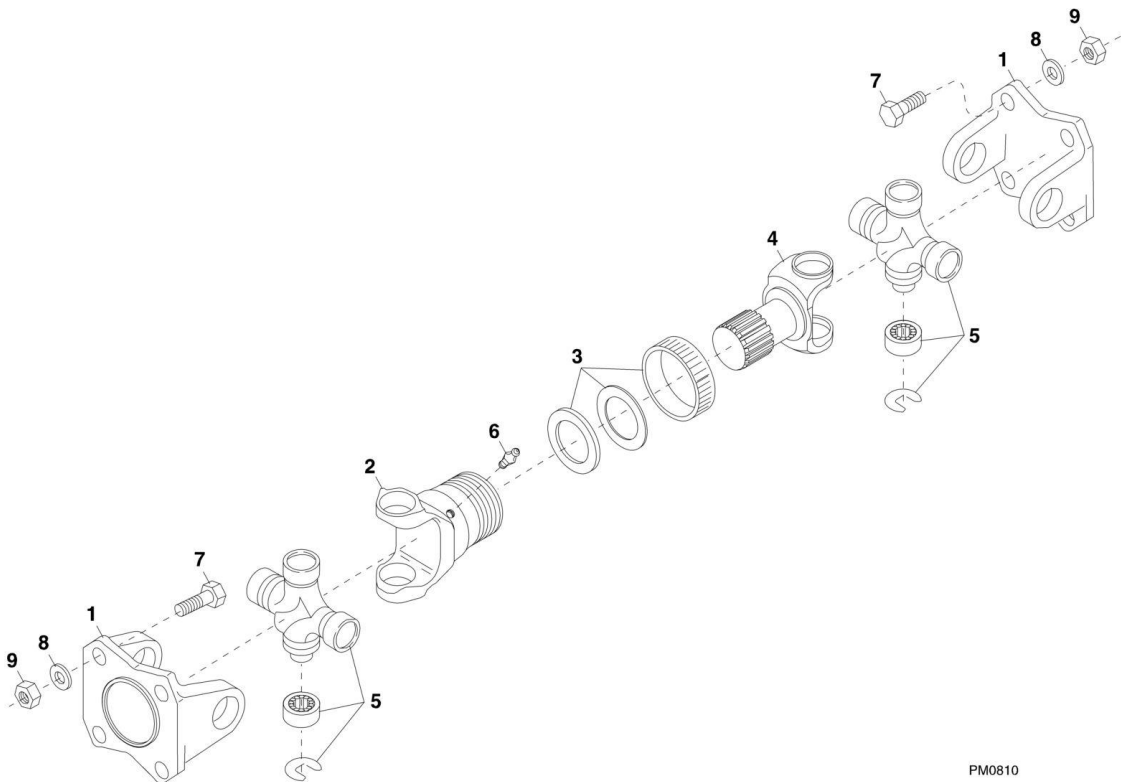
SECTION 5 - DRIVE TRAIN

FIGURE 5-19. TRANSFER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623978	1	TRANSFER BOX ASSY, (includes items 1 thru 38)	
1	70020497	1	TRANSFER BOX	
2	8033626	3	BEARING	
3	8033631	1	WASHER	
4	8033623	1	SNAP RING	
5	8033628	AR	SHIM, .30MM	
5	8033629	AR	SHIM, .10MM	
5	8033630	AR	SHIM, .05MM	
6	8033627	1	O-RING	
7	8033622	1	SHAFT COVER	
8	8033604	3	HEX HD CAPSCREW, M12X30	
9	8033618	2	COVER	
10	8035241	8	HEX HD CAPSCREW, M8X22	
11	70020498	1	SHAFT	
12	70020499	3	OIL SEAL RING	
13	8033625	1	BEARING	
14	70020500	3	COVER	
15	8035243	3	OIL PLUG, M22X1.5	
16	8033608	1	WASHER	
17	8033613	1	HEX HD CAPSCREW	
18	8033609	1	WASHER	
19	8033612	1	BREATHER, M10X1	
20	8033619	1	BREATHER EXTENSION	
21	8033610	1	WASHER	
22	70020501	1	SHAFT	
23	8033625	1	BEARING	
24	8033633	4	GEAR	
25	8033632	2	GEAR PIN	
26	8033626	2	BEARING	
27	8033614	2	PLUG	
28	8033611	1	O-RING	
29	8033594	1	BEARING	
30	8033599	1	SPACER	
31	8033603	5	HEX HD CAPSCREW, M10X30	
32	70020502	1	COVER	
33	8033590	1	RING NUT, M25X1.5	
34	8033596	1	O-RING	
35	8033597	1	CENTERING RING	
36	8033595	1	O-RING	
37	70020503	1	FLANGE	
38	8033615	AR	SHIM, .10MM	
38	8033616	AR	SHIM, .19MM	
38	8033617	AR	SHIM, .35MM	
40	8526052	AR	LOCTITE, #277	
41	8526056	AR	LOCTITE, #518	

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FIGURE 5-20. DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX



PM0810

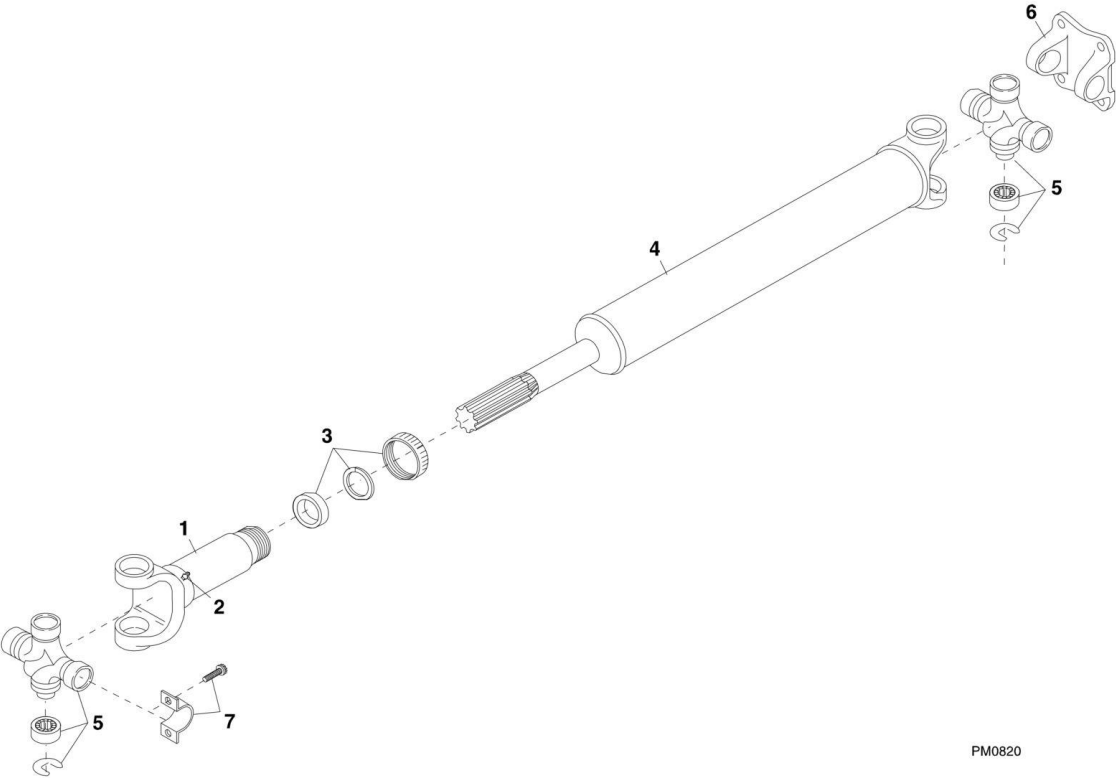
SECTION 5 - DRIVE TRAIN

FIGURE 5-20. DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7138760	1	DRIVE SHAFT ASSY, (transmission to transfer box), (includes items 1 thru 6)	
1		Ref	YOKE FLANGE	
2		Ref	SLIP YOKE	
3	8035779	1	DUST CAP KIT	
4		Ref	YOKE SHAFT	
5	8035778	2	CROSS AND BEARING KIT	
6	8033004	1	GREASE FITTING	
7	8310084	8	HEX HD CAPSCREW, 1/2-20X2	
8	8307007	8	LOCKWASHER, 1/2	
9	8310464	8	HEX NUT, 1/2-20	

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FIGURE 5-21. DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE



PM0820

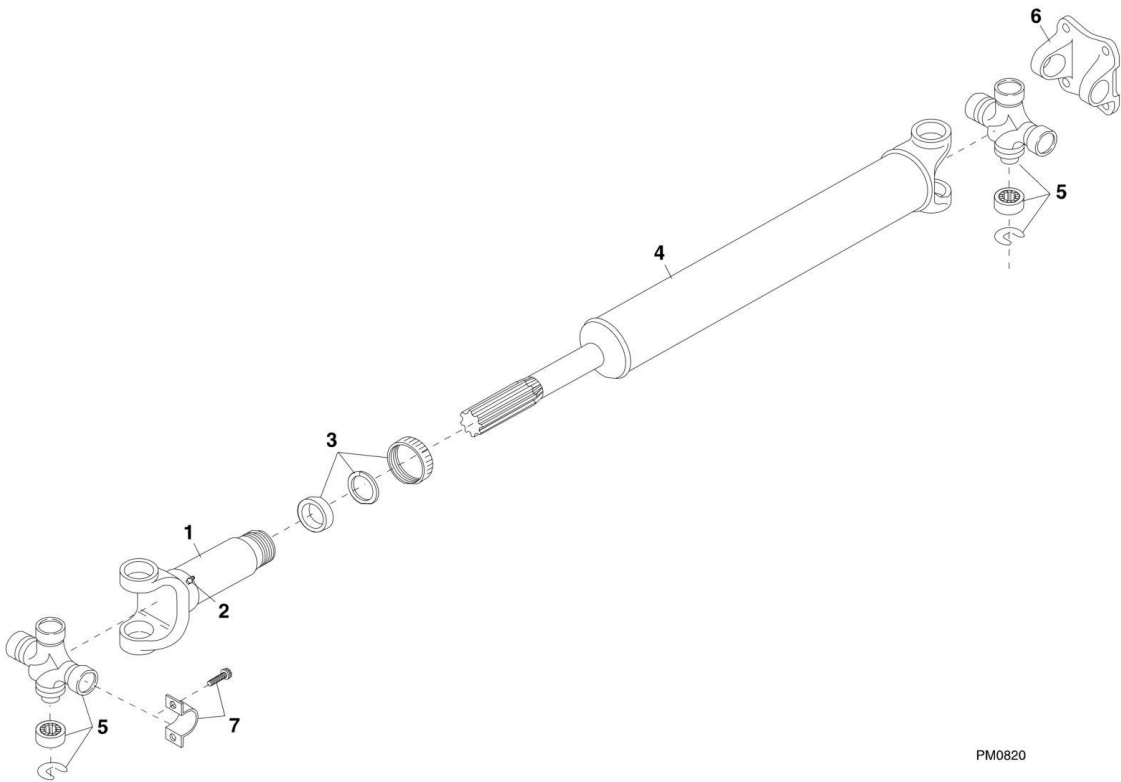
SECTION 5 - DRIVE TRAIN

FIGURE 5-21. DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623979	1	DRIVE SHAFT ASSY, (transfer box to front axle), (includes items 1 thru 6)	
1		Ref	SLIP YOKE	
2		Ref	GREASE FITTING	
3	8035109	1	DUST CAP KIT	
4		Ref	YOKE SHAFT	
5	91474035	2	CROSS AND BEARING KIT	
6		Ref	FLANGE YOKE	
7	8880218	2	STRAP KIT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-22. DRIVE SHAFT - TRANSFER BOX TO REAR AXLE



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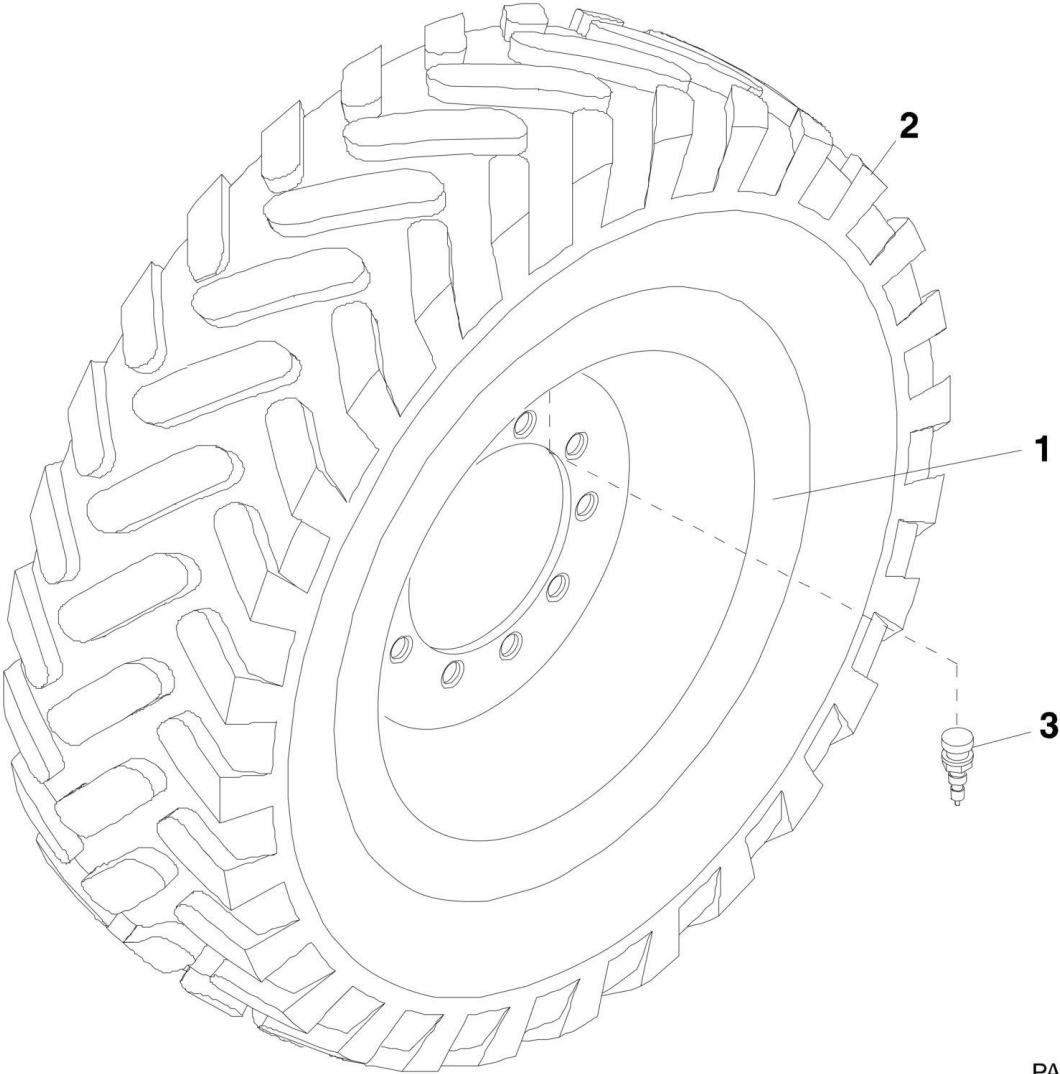
SECTION 5 - DRIVE TRAIN

FIGURE 5-22. DRIVE SHAFT - TRANSFER BOX TO REAR AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623980	1	DRIVE SHAFT ASSY, (transfer box to rear axle), (includes items 1 thru 6)	
1		Ref	SLIP YOKE	
2		Ref	GREASE FITTING	
3	8035109	1	DUST CAP KIT	
4		Ref	YOKE SHAFT	
5	91474035	2	CROSS AND BEARING KIT	
6		Ref	FLANGE YOKE	
7	8880218	2	STRAP KIT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-23. TIRES AND RIMS



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SECTION 5 - DRIVE TRAIN

FIGURE 5-23. TIRES AND RIMS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623598	1	TIRE AND WHEEL ASSY, (includes items 1 thru 3)	AB
1	7301060	1	RIM, 13X25, 1.18 OFFSET, 5/16 THICK	
2	8780052	1	RADIAL TIRE, 15.5R25, VUT, 2 STAR, L-2	
3	8786514	1	VALVE STEM	

SECTION 6 - CAB

SECTION 6 - CAB

FIGURE 6-1. CAB ASSEMBLY

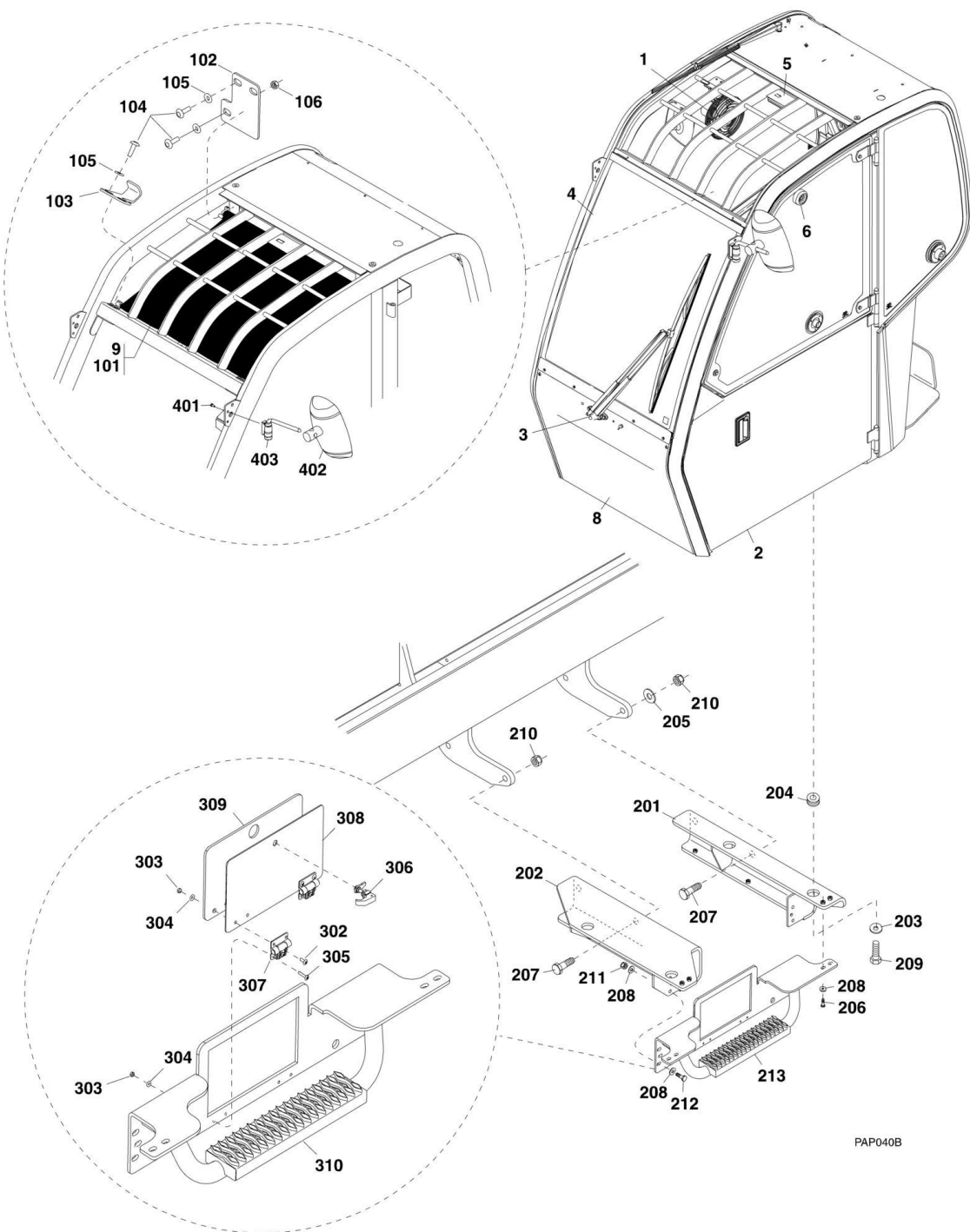


FIGURE 6-1. CAB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101684	1	CAB ASSY, (includes items 1 thru 9)	C
1	6623815	1	PERSONAL FAN	
2		Ref	DOOR ASSY, (See DOOR ASSEMBLY for Breakdown)	
3		Ref	WIPERS ASSY, (See WIPERS ASSEMBLY for Breakdown)	
4		Ref	GLASS ASSY, (See GLASS ASSEMBLY for Breakdown)	
5	8036437	1	DOME LAMP	
5	8036442	1	BULB	
6	8036699	2	WASHER, 3/8	
8		Ref	CAB, (See CAB for Breakdown)	
9	1001109866	1	SUNSHADE KIT, (includes items 101 thru 106)	A
101	1001080952	1	SUNSCREEN	
102	70029900	2	REAR BRACKET	
103	70029901	1	FRONT LEFT BRACKET	
103	70029902	1	FRONT RIGHT BRACKET	
104	8033856	10	SCREW TORX, 1/4-20X3/4	
105	8036657	12	WASHER, 1/4	
106	70021038	2	NUT, 1/4-20	
	1001101724	1	CAB SUPPORT ASSY, (includes items 201 thru 213)	A
201	6623621W	1	REAR CAB SUPPORT WELDMENT	
202	6623625W	1	FRONT CAB SUPPORT WELDMENT	
203	7129441	4	WASHER	
204	8278041	4	CAB ISOLATOR	
205	8307211	2	WASHER, 1-1/4	
206	8310164	4	HEX HD CAPSCREW, M12X1.75X40MM, PC8.8, (torque to 58-70 lb-ft)	
207	8310285	4	HEX HD CAPSCREW, 1-1/4-7X4, GR8, (torque to 1475-1725 lb-ft)	
208	8310308	13	WASHER, 1/2	
209	8310375	4	HEX HD CAPSCREW, 3/4-10X3-3/4, GR8, (torque to 265-325 lb-ft)	B
210	8310417	4	LOCKNUT, 1-1/4-7	
211	8310625	3	LOCKNUT, M12X1.75	
212	8310730	6	HEX HD CAPSCREW, M12X1.75X45MM, PC10.9, (torque to 58-70 lb-ft)	
213	1001100571	1	CAB MOUNT STEP, (includes items 301 thru 310)	
302	8303034	4	SCREW-TRUSS, TORX HEAD, 1/4-20X3/4	
303	8305004	8	HEX, NUT, 1/4-20	
304	8310052	8	WASHER, 1/4	
305	8310136	4	SCREW-TRUSS, TORX HEAD, 1/4-20X1-1/4	
306	8342404	1	LATCH ASSY	A
307	8344010	2	ADJUSTABLE HINGE	
308	1001100615W	1	TOOL BOX COVER	
309	1001100777	1	TOOL BOX INSULATION	
310	1001100838W	1	STEP SUPPORT	
	1001109770	1	CAB MIRROR INSTALLATION, (includes items 401 thru 403)	
401	8303799	2	HEX HD CAPSCREW, M6X1X14MM, PC8.8	
402	8866514	1	MIRROR	
403	8866530	1	MIRROR MOUNT ARM ASSY	

FIGURE 6-2. CAB



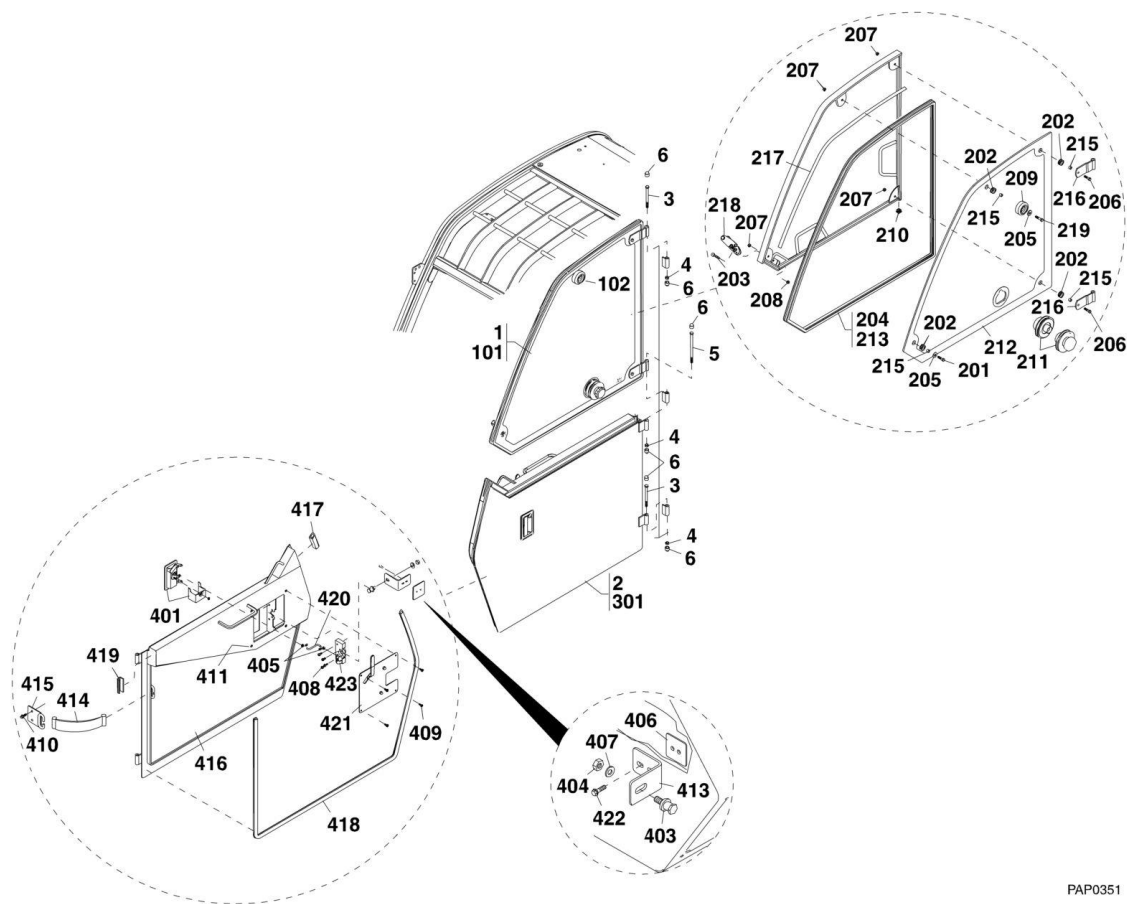
FIGURE 6-2. CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101686	1	CAB, (includes items 1 thru 10)	A
1	6623781W	1	LOWER DASH COVER PANEL	
2	6623782W	1	FUSE AND RELAY ACCESS COVER PANEL	
3	6623783W	1	SEAT MOUNTING PANEL	
4	6623787	1	LEFT DASH COVER PANEL	
5	7151271W	1	FLOOR ACCESS PANEL	
6	8303544	12	HEX HD CAPSCREW, M6X1X20MM, PC8.8	
7	8303783	2	HEX HD CAPSCREW, M6X1X20MM, PC8.8	
8	1001101687W	1	OPEN CAB	
9	1001101689	1	RIGHT DASH COVER PANEL	
10	1001101690	1	JOYSTICK CONSOLE WELDMENT	
	1001101726	Ref	CAB COVER SUB ASSY, (not available to order, see items 103 thru 112 for service)	C
103	1001111216	1	LEFT DASH COVER ASSY, (includes items 201 thru 205)	A
104	8303544	8	HEX HD CAPSCREW, M6X1X20MM, PC8.8	
105	8303783	2	HEX HD CAPSCREW, M8X1.25X25MM, PC8.8, (torque to 23.1-25.9 Nm)	
106	8307219	16	WASHER, M6	
107	8307222	4	WASHER, M8	
108	8310745	6	TEE HD SCREW, M6-1X25	
109	10139087	1	ANTI SLIP ADHESIVE STRIP	
110	10725268	1	LOOM, 1/4	
111	1001101728	1	JOYSTICK CONSOLE ASSY, (includes items 301 thru 314)	B
112	1001104422	1	RIGHT DASH COVER ASSY, (includes items 401 thru 412)	A
201		Ref	WARNING AND DANGER DECAL, (See DECALS SECTION for Breakdown)	
202		Ref	STEER MODE INDICATOR DECAL, (See DECALS SECTION for Breakdown)	
203		Ref	PARK BRAKE SWITCH, (See ELECTRICAL SECTION for Breakdown)	
204	8223074	1	3-POSITION BEZEL SWITCH	
205		Ref	ECM INDICATOR, (See ELECTRICAL SECTION for Breakdown)	
301	8223046	1	4-POSITION BEZEL SWITCH	
302	8303118	4	FLANGE HD CAPSCREW, 1/4-20X1-1/2, GR5	
303	8305002	4	HEX NUT, #10-24	
304	8307003	4	LOCKWASHER, #10	
305	8307111	4	WASHER, #10	
306	8310372	4	BUTTON HD CAPSCREW, #10-24X5/8	
307	8580420	4	WELL NUT	
308	1001101465	1	JOYSTICK CONTROLLER	
309		Ref	LMI DISPLAY UNIT, (See ELECTRICAL SECTION for Breakdown)	
310		Ref	JOYSTICK DECAL, (See DECALS SECTION for Breakdown)	
311		Ref	ENGINE PREHEAT SWITCH, (See ELECTRICAL SECTION for Breakdown)	
312		Ref	FRAME SWAY SWITCH, (See ELECTRICAL SECTION for Breakdown)	
313		Ref	FINE MODE SWITCH, (See ELECTRICAL SECTION for Breakdown)	
314		Ref	JIB EXTEND/RETRACT SWITCH, (See ELECTRICAL SECTION for Breakdown)	
401		Ref	DECAL, (See DECALS SECTION for Breakdown)	
402		Ref	ROOF WIPER/WASHER SWITCH, (See ELECTRICAL SECTION	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
403		Ref	for Breakdown) WINDSHIELD WIPER SWITCH, (See ELECTRICAL SECTION for Breakdown)	AB
404		Ref	WINDSHIELD WASHER, (See ELECTRICAL SECTION for Breakdown)	
405		Ref	WORKLIGHT SWITCH, (See ELECTRICAL SECTION for Breakdown)	
406		Ref	HAZARD SWITCH, (See ELECTRICAL SECTION for Breakdown)	
407	8223075	1	7-POSITION BEZEL SWITCH	
408	8310382	8	FLANGE NUT, (torque to 6.4-11.5 Nm)	
409	8310669	2	U-BOLT, 1/4-20X2-1/2	
410	8466203	1	VOLTMETER GAUGE	
411	1001104898	1	AXLE/SERVICE INDICATOR	
412	1001104903	1	CREEP MODE SWITCH	
	7151329	1	BRUSH STRIP ASSY, (includes items 501 thru 503)	
501	7138944	2	BRUSH STRIPS	
502	7301279	2	SHORT BRUSH STRIP	
503	8303607	10	HEX HD CAPSCREW, M6X1X25, PC8.8, (torque to 7-12 Nm)	
604	7151262	1	DASH MOLDING COVER	
622	8303544	5	HEX HD CAPSCREW, M6X1X20MM, PC8.8	
627	8307219	5	WASHER, M6	
701	8466306	1	TILT ANGLE GAUGE	

FIGURE 6-3. DOOR ASSEMBLY

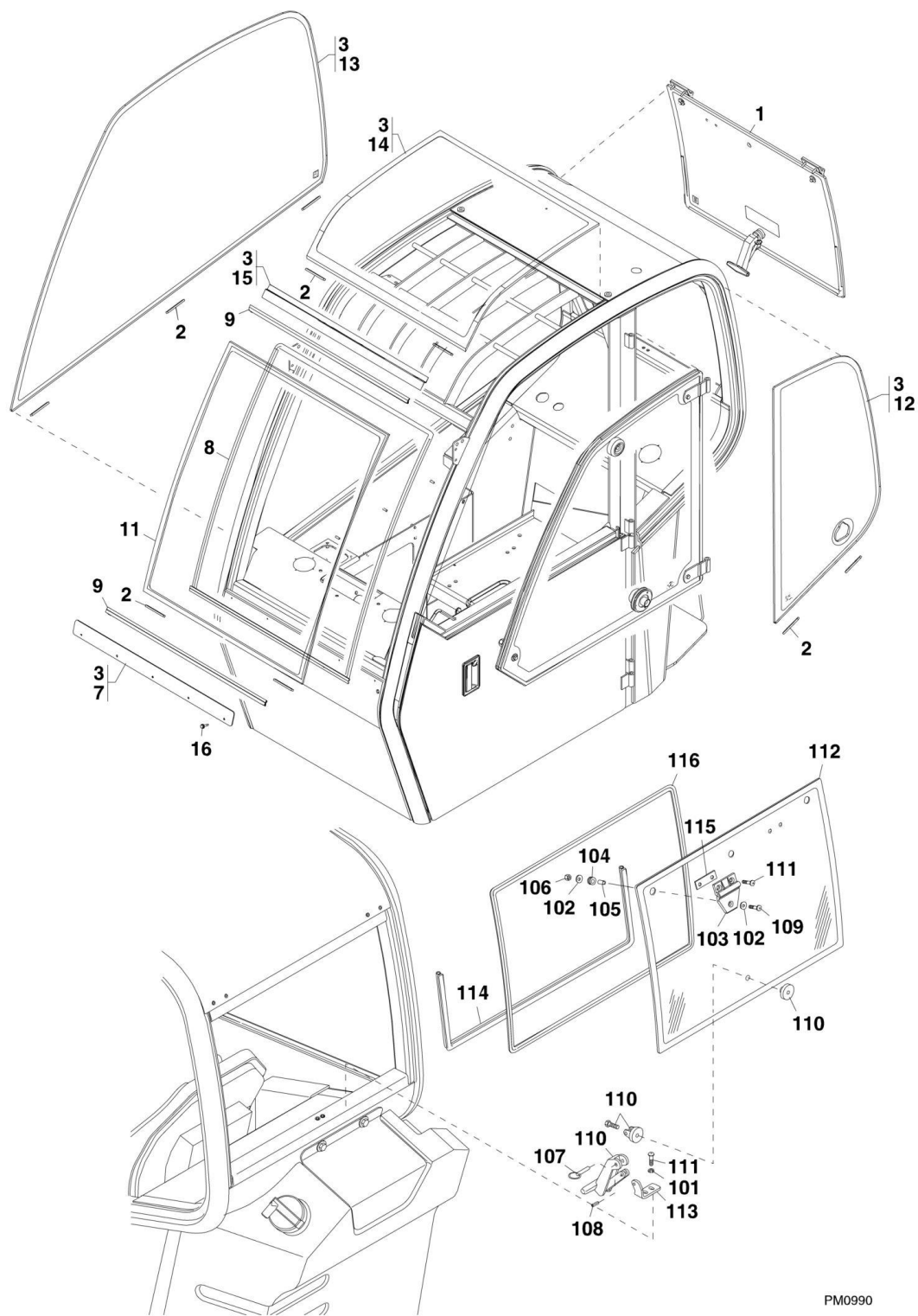


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FIGURE 6-3. DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623842W	1	DOOR ASSY, (includes items 1 thru 6)	AA
1	6623843	1	UPPER DOOR SUB-ASSY, (includes items 101 & 102)	AB
2	6623844	1	LOWER DOOR ASSY, (includes item 301)	
3	8035631	2	HEX HD CAPSCREW, 3/8-16X4-1/2	
4	8035632	3	HEX NUT, 3/8-16	
5	8036064	1	HEX HD CAPSCREW, 3/8-16 X 6-1/2, GR5	
6	8036065	6	HEX DOME CAP, 3/8 BLACK NYLON	
101	7151330	1	UPPER DOOR ASSEMBLY, (includes items 201 thru 219)	AB
102	8036699	AR	WASHER, 3/8	
201	8035445	1	HEX HD CAPSCREW, 5/16-18X1, GR8	
202	8035477	4	RUBBER GROMMET	
203	8035491	1	TRUSS SCREW, 1/4-20X1-1/4	
204	8035523	1	URETHANE SEAL, (apply to item 213)	
205	8036699	AR	WASHER, 3/8	
206	8036700	2	HEX HD CAPSCREW, 5/16-18X1-1/4, GR8	
207	8036701	4	HEX NUT, 5/16-18, GR8, (torque to 12.2-15.7 Nm)	
208	8036702	1	HEX NUT, 1/4-20, GR8	
209	8036703	1	RUBBER BUMPER	
210	8036704	1	SQUARE PLUG	
211	1001081243	1	DOOR HOLD OPEN	
212	8036706	1	UPPER DOOR GLASS	
213	8036707	1	UPPER DOOR BULB SEAL	
215	8036709	4	SPACER BUSHING	
216	8036710	2	HINGE PIN, 3/8	
217	8036711	1	DOOR GLASS BULB SEAL	
218	8036712	1	UPPER DOOR LATCH ASSY	
219	8303715	1	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
301	7151331	1	LOWER DOOR ASSY, (includes items 401 thru 423)	C
401	1001105892	1	PADDLE LATCH	
403	8035637	1	STRIKER BOLT, 7/16-14X1-1/2, (torque to 39-44 Nm)	
404	8035639	1	LOCK NUT, 7/16-14	
405	8035659	2	ROD END RETAINER CLIP	
406	8036059	1	STRIKER NUT PLATE WELDMENT	
407	8036061	1	WASHER, 1/2	
408	8036105	4	TRUSS SCREW, 1/4-20X5/8, GR5, (torque to 5-9 Nm)	
409	8036656	4	PAN HEAD BOLT, M6X1X16MM, (torque to 5-9 Nm)	
410	8036684	2	FLANGE BOLT, M8X1.25X20MM, (torque to 17-31 Nm)	
411	8036685	4	RIVET NUT, M6X1	
413	8036687	1	DOOR STRIKER MOUNT	
414	8036096	1	DOOR RESTRAINT STRAP	
415	8036689	1	DOOR RESTRAINT WELDMENT	
416	8036690	1	LOWER DOOR FOAM	
417	8036691	1	LOWER DOOR FRONT FILLER BULB SEAL	
418	8036692	1	LOWER DOOR BULB SEAL	
419	8036693	1	LOWER DOOR REAR FILLER BULB SEAL	
420	8036694	1	EXTERIOR LATCH LINKAGE	
421	8036736W	1	LOWER DOOR COVER ASSY	
422	8036696	2	FLANGE BOLT, 1/4-20X3/4, (torque to 5-9 Nm)	
423	8035439	1	DOOR LATCH	

FIGURE 6-4. GLASS ASSEMBLY



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FIGURE 6-4. GLASS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301670	1	GLASS ASSY, (includes items 1 thru 16)	AB
1	7301747	1	REAR WINDOW ASSY, (includes items 101 thru 116)	AC
2	8035490	9	SETTING BLOCK	
3	8035523	AR	URETHANE SEALANT, (apply to items 7, 12, 13, 14 & 15)	
7	8036658	1	LOWER WINDSHIELD RETAINER	
8	8036659	1	WINDSHIELD DOUBLE SEAL	
9	8036660	2	WINDSHIELD COMPRESSION SEAL	
11	8036663	1	WINDSHIELD GLASS	
12	8036664	1	LH SIDE GLASS	
13	8036665	1	RH SIDE GLASS	
14	8036666	1	SKYLIGHT GLASS	
15	8036667	1	UPPER WINDSHIELD CONTAINER	
16	8037204	5	SELF TAPPING SCREW, #10-16X3/4, (torque to 3-7 Nm)	
101	8035416	2	LOCKWASHER, 1/4	
102	8035468	4	WASHER, 9/32	
103	1001081281	2	PLASTIC HINGE	
104	8035477	2	RUBBER GROMMET	
105	8035478	2	PLASTIC BUSHING	
106	8035479	2	NUT ACORN, 1/4-20	
107	8035484	1	DETENT RING PIN	
108	8035486	1	ROLL PIN, 3/16X1/2	
109	8035491	2	TRUSS SCREW, 1/4-20X1-1/4, (torque to 7-12 Nm)	
110	1001081280	1	T-STYLE HOLD OPEN	
111	8036673	6	PAN HD BOLT, M6X1X25, (torque to 7-12 Nm)	
112	8036674	1	REAR WINDOW GLASS	
113	8036675	1	LATCH MOUNT	
114	8036676	1	BULB SEAL	
115	8036672	2	HINGE SPACER	
116	8036734	1	SINGLE D SEAL	

FIGURE 6-5. SUSPENSION SEAT

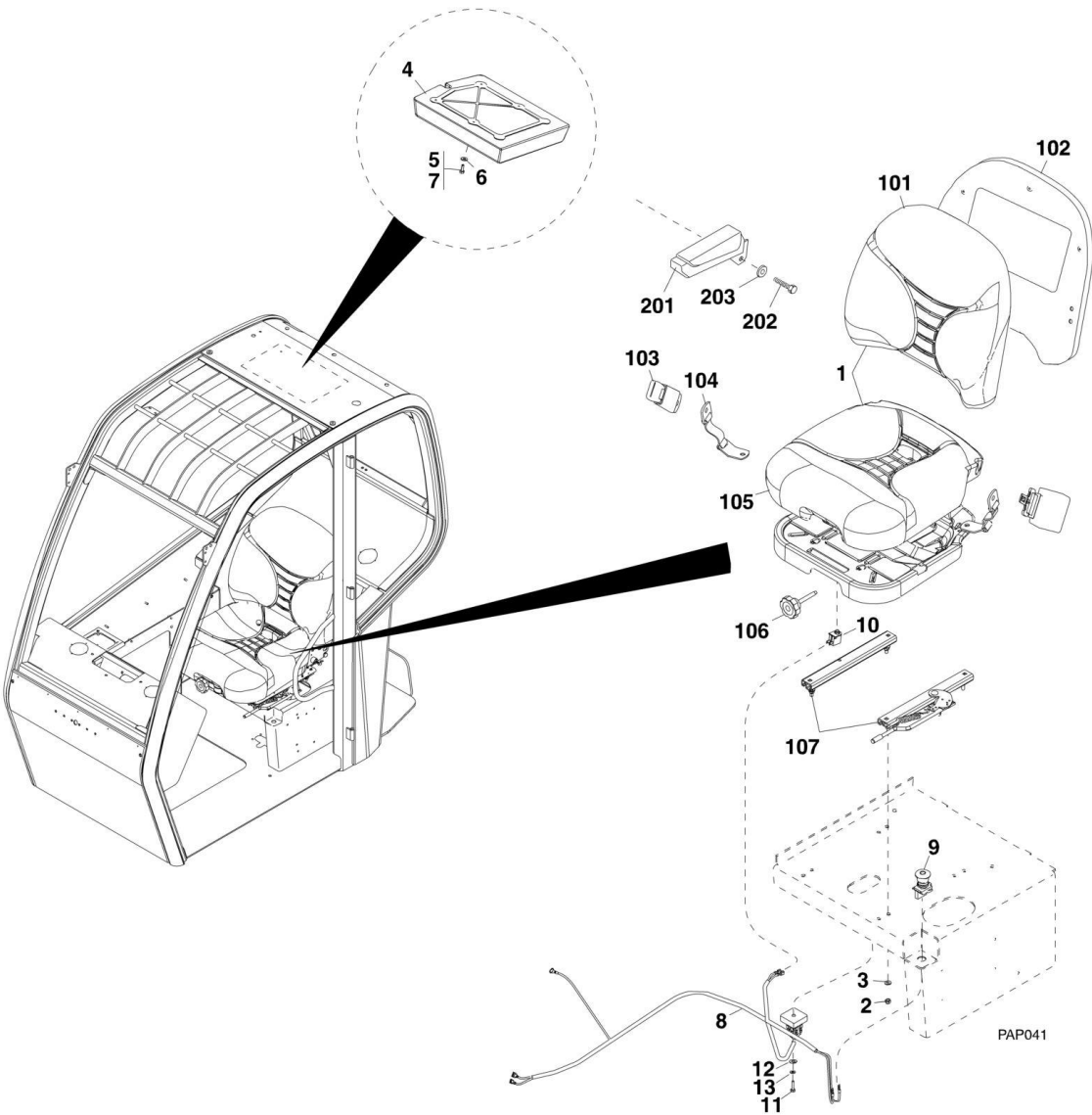
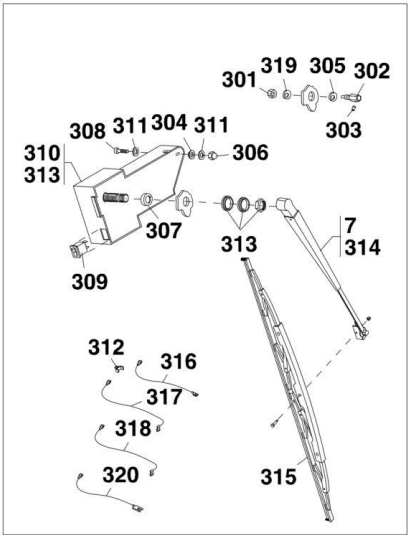
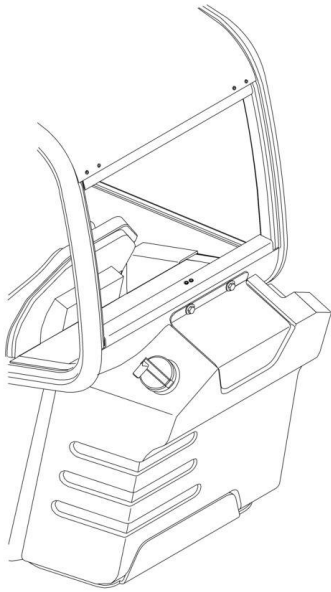
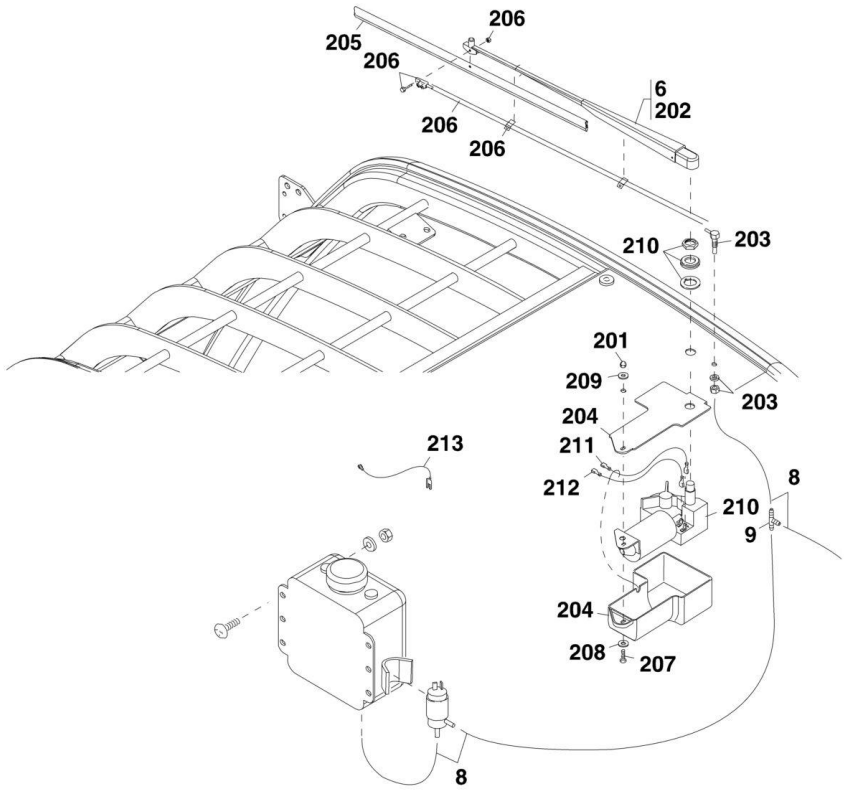


FIGURE 6-5. SUSPENSION SEAT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104420	1	SUSPENSION SEAT SUB ASSY, (includes items 1 thru 7)	A
1	3980044	1	STANDARD CAB SEAT, (includes items 101 thru 107)	A
2	8305626	4	LOCKNUT, 5/16-18	
3	8307106	4	WASHER, 5/16	
4	0860520	1	MANUAL STORAGE BOX	
5	0641406	4	HEX HD CAPSCREW, 1/4-20X3/4	
6	4751400	4	WASHER, 1/4	
7	0100011	AR	LOCTITE, #242, (apply to item 5)	
8		Ref	SEAT/E-STOP HARNESS, (See ELECTRICAL SECTION for Breakdown)	
9		Ref	E-STOP SWITCH, (See ELECTRICAL SECTION for Breakdown)	
10		Ref	SEAT SWITCH, (See ELECTRICAL SECTION for Breakdown)	
11	3911018	1	SCREW 10-24X1-1/8	
12	4711000	1	WASHER, #10	
13	4761000	1	LOCKWASHER, #10	
101	7026900	1	BACK CUSHION KIT	
102	7026902	1	BACK PANEL KIT	
103	7026905	1	SEAT BELT KIT	
104	7026906	1	TETHER KIT	
105	7026901	1	SEAT CUSHION KIT	
106	7026799	1	KNOB KIT	
107	7026798	1	SLIDE KIT	
	7301488	1	ARM REST ASSY, (includes items 201 thru 203)	AB
201	7138858	1	ARM REST	
202	8303783	2	HEX HD CAPSCREW, M8X1.25X25MM, PC8.8, (torque to 23.1-25.9 Nm)	
203	8307203	2	WASHER, 5/16	

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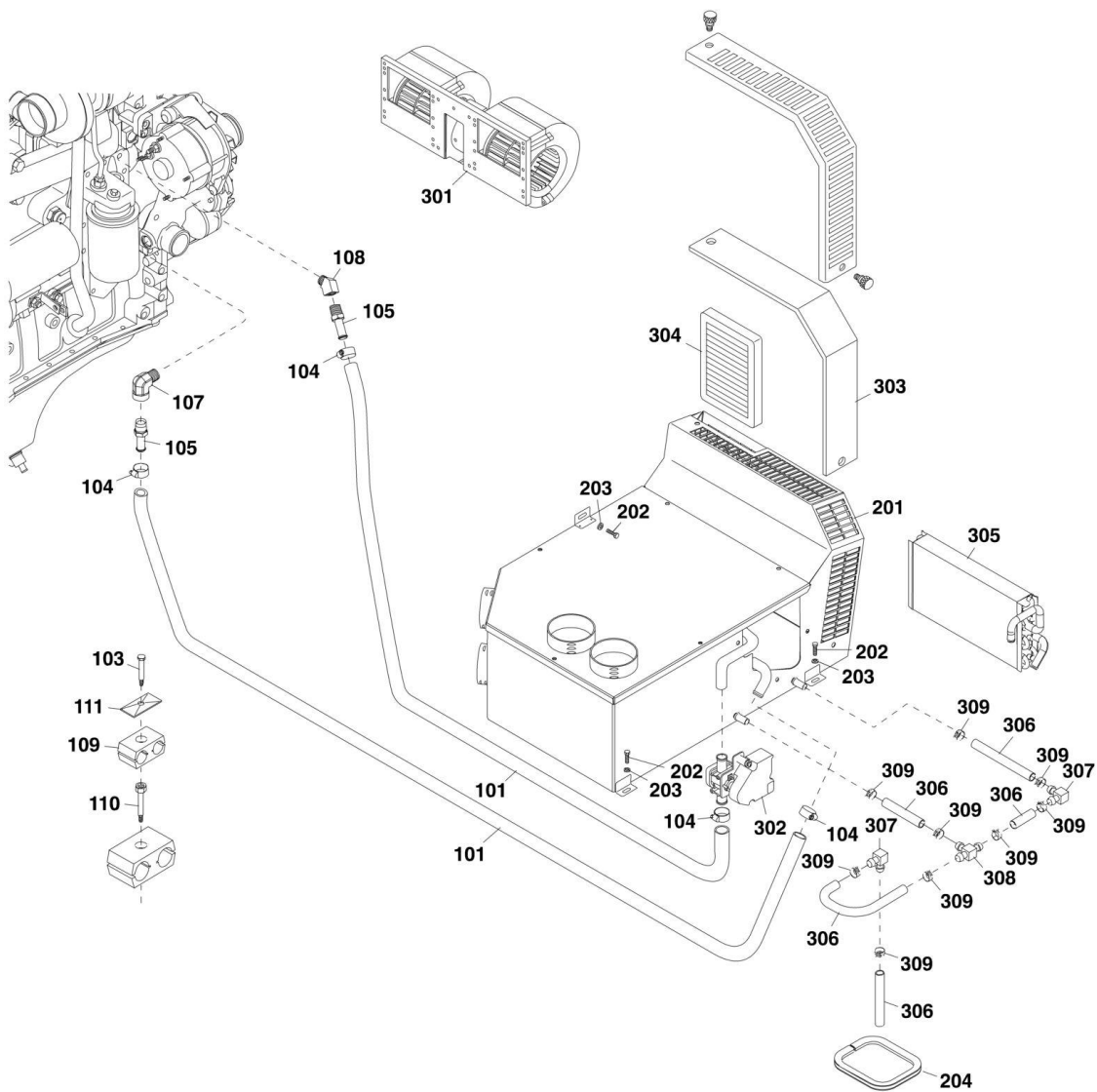
FIGURE 6-6. WIPERS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623862	1	WIPERS ASSY, (includes items 1 thru 9)	B
1	8035410	1	WASHER BOTTLE ASSY	
1		Ref	PUMP	
1		Ref	CAP	
2	8036656	4	PAN HD BOLT, M6-1X16	
3	8036657	4	WASHER, 1/4	
4	8036662	4	HEX NUT, M6-1, GR10.9	
5	8036668	1	FRONT WIPER ASSY, (includes items 101 thru 107)	AB
6	6623863	1	SKYLIGHT WIPER ASSY, (includes items 201 thru 213)	AB
7	6623864	1	REAR WIPER ASSY, (includes items 301 thru 320)	C
8	8033075	1	WASHER HOSE	
9	8036072	1	CONNECTOR TEE	
101	8034815	1	PANTOGRAPHIC MOUNT PLATE	
101		Ref	PANTO GASKET	
101		Ref	LOCKWASHER, 1/4	
101		Ref	ACORN NUT, 1/4-28	
102	1001081310	1	WET KIT	
103	8035392	1	WIPER BLADE	
104	8035393	1	WIPER ARM	
104		Ref	SPRAYER NOZZLE	
104		Ref	BOLT	
104		Ref	LOCKNUT	
104		Ref	HOSE CLIPS	
104		Ref	HOSE	
105	8036669	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
106	8036670	1	FRONT WIPER MOTOR ASSY	
106		Ref	CARDBOARD WASHER	
106		Ref	METAL WASHER	
106		Ref	HEX NUT	
106		Ref	RUBBER CAP	
106		Ref	KNURLED DRIVER	
106		Ref	LOCKWASHER, 3/8	
106		Ref	ACORN NUT, 1/4-28	
107	1001081306	1	FRONT WIPER SPACER	
201	8034805	1	ACORN NUT, #10-24	
202	8034807	1	WIPER ARM	
203	1001081310	1	WET KIT	
204	8035493	1	MOTOR WIPER COVER	
205	8035498	1	WIPER BLADE	
206	8035499	1	ARM WET KIT	
206		Ref	SPRAYER NOZZLE	
206		Ref	BOLT	
206		Ref	LOCKNUT	
206		Ref	HOSE CLIPS	
206		Ref	HOSE	
207	8036088	1	PAN HD SCREW, #10-24X3/4	
208	8036678	1	WASHER	
209	8036679	1	WASHER	
210	6623865	1	WIPER MOTOR	
211	8036681	1	SKYLIGHT PARK JUMPER WIRE	

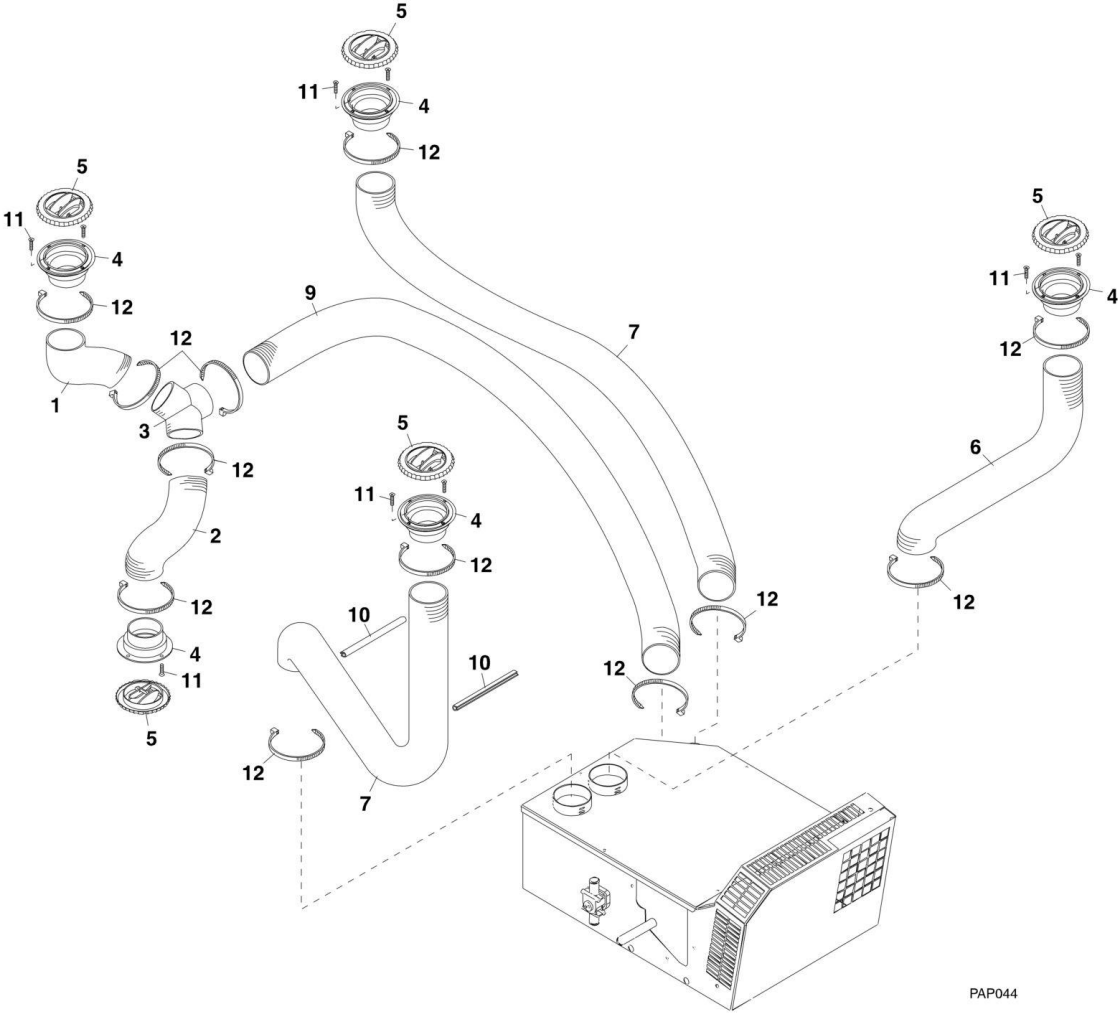
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
212	8036682	1	SKYLIGHT RUN JUMPER WIRE	
213	8036761	1	WIPER GROUND JUMPER WIRE	
301	8034798	1	HEX NUT, 5/16-18, GR8	
302	8034801	1	NOZZLE HOLDER	
303	8554008	1	SPRAY NOZZLE	
304	8034803	1	RUBBER GROMMET	
305	8034804	1	WEATHER TIGHT WASHER	
306	8034805	1	ACORN NUT, #10-24	
307	80263045	1	SPACER	
308	8034811	1	PAN HD BOLT, #10-24X7/8	
309	8035509	1	ROCKER SWITCH	
310	8035511	1	WIPER COVER	
311	8036678	2	WASHER	
312	8036714	1	TERMINAL TAB	
313	6623866	1	WIPER MOTOR	
314	8036716	1	WIPER ARM	
315	8036717	1	WIPER BLADE	
316	8036718	1	REAR WIPER POWER JUMPER WIRE	
317	8036719	1	REAR WIPER SWITCH JUMPER WIRE	
318	8036729	1	REAR WIPER SWITCH POWER WIRE	
319	8034800	1	WASHER	
320	8036761	1	WIPER GROUND JUMPER WIRE	

FIGURE 6-7. HEATING COMPONENTS



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FIGURE 6-7. HEATING COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301273	1	DUCT/VENT ASSY, (includes items 1 thru 12)	AC
1	7301457	1	AIR DUCT HOSE, 63,5X254 MM	
2	7301458	1	AIR DUCT HOSE, 63,5X457 MM	
3	7301476	1	Y-SPLICE ADAPTER	
4	7301478	5	HOSE ADAPTER	
5	7301479	5	ROTATING/CLOSING LOUVER	
6	7301657	1	AIR DUCT HOSE, 63,5X1000 MM	
7	7301658	2	AIR DUCT HOSE, 63,5X1600 MM	
9	7301659	1	AIR DUCT HOSE, 63,5X1900 MM	
10	7301660	2	EDGE MOULDING	
11	8310726	10	OVAL COUNTERSUNK SELF TAPPING SCREW	
12	10720496	12	PLASTIC TIE WRAP	
	1001115000	1	HEATER HOSE ASSY, (includes items 101 thru 111)	B
101	7301434	2	ENGINE SUPPLY AND RETURN HEATER HOSE	
103	8303528	1	HEX HD CAPSCREW, M8X1.25X65, PC8.8, (torque to 17-31 Nm)	
104	8410009	4	HOSE CLAMP, (torque to .30-.45 Nm)	
105	8430048	2	HOSE BARB REDUCER	
107	8530016	1	STREET ELBOW, 90	
108	8540231	1	STREET ELBOW, 45	
109	8750022	1	CLAMP SET	
110	8750039	1	STACKING BOLT, (torque to 17-31 Nm)	
111	8750025	1	COVER PLATE	
	7301280	1	HEATER BLOWER ASSY, (includes items 201 thru 204)	F G
201	7301259	1	HEATER/BLOWER ASSY, (includes items 301 thru 309)	
202	8303606	3	HEX HD CAPSCREW, M8X1.25X20, PC8.8	
203	8307222	3	WASHER, M8	
204	4060805	1.4 ft	MOULDING	
301	8036727	1	BLOWER MOTOR ASSY	
302	7301261	1	HEAT VALVE ASSY	
303	8036723	1	FOAM FILTER	
304	8036725	1	FRESH AIR INTAKE FILTER	
305		Ref	HEATER COIL	
306	7029412	AR	DRAIN HOSE	
307	7029413	2	DRAIN ELBOW, 90	
308	7029414	1	DRAIN TEE, 1/2	
309	7029415	9	DRAIN HOSE CLAMP	
	2915028	1	DRAIN KIT, (includes items 306 thru 309)	

FIGURE 6-8. AIR CONDITIONING

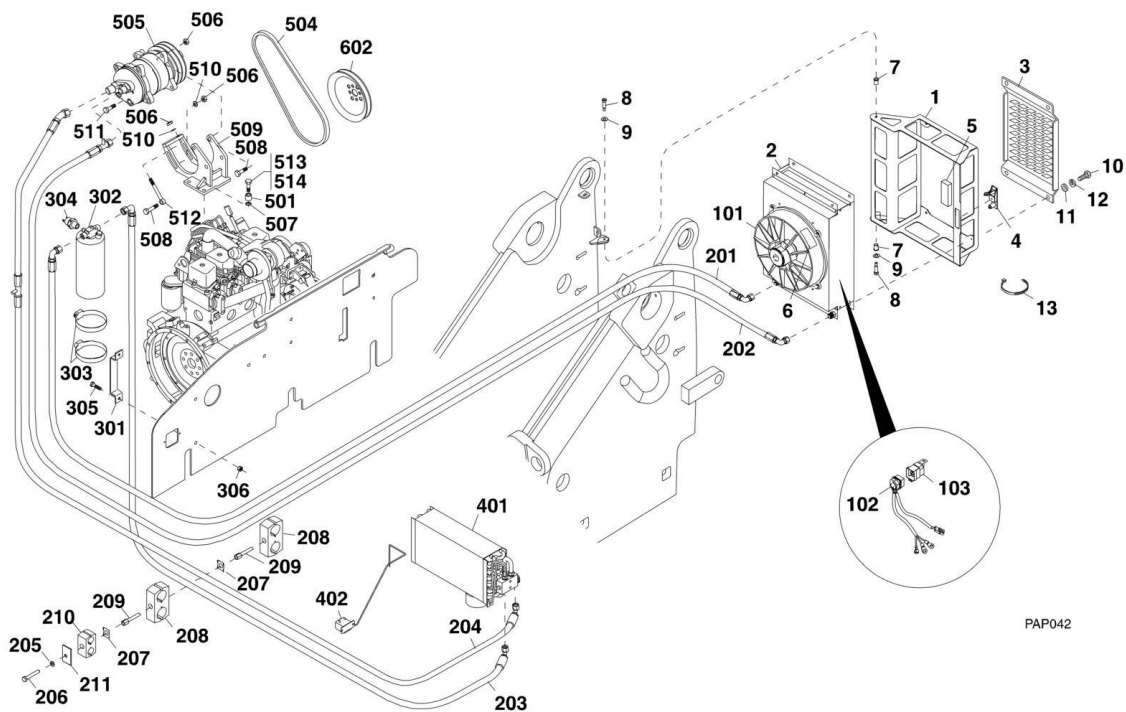


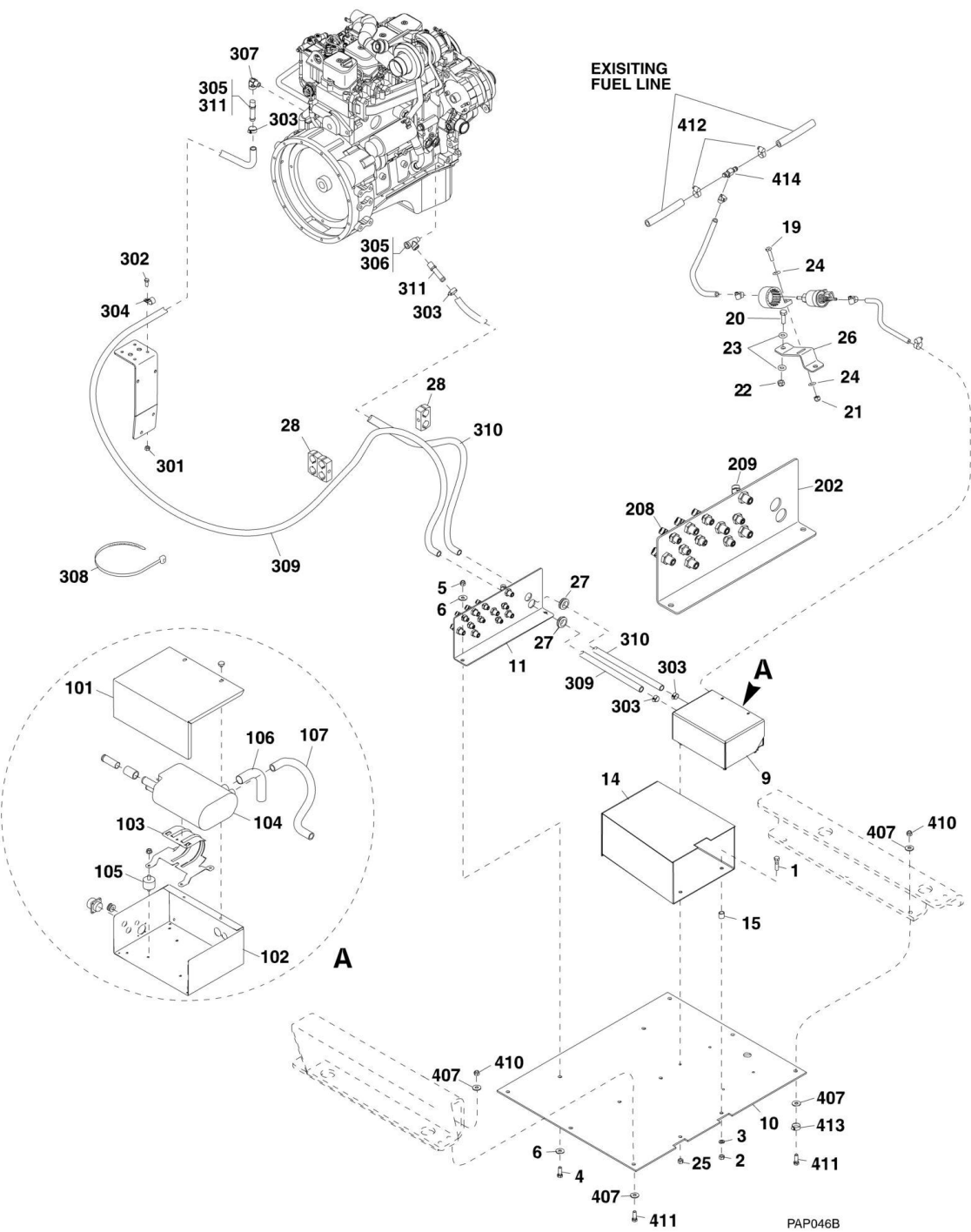
FIGURE 6-8. AIR CONDITIONING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623789	1	AC CONDENSER SUB ASSY, (includes items 1 thru 13)	AB
1	6623560	1	REAR DOOR WELDMENT	
2	6623568	1	REMOTE MOUNT CONDENSER, (includes items 101 thru 103)	
3	6623589	1	REAR DOOR CONDENSER	
4	8342416	1	LATCH ASSY	
5	7300267	1	FOAM PAD	
6		Ref	FAN WARNING DECAL, (See DECALS SECTION for Breakdown)	
7	8070018	2	FLANGED BUSHING	
8	8310580	2	HEX HD CAPSCREW, 3/8X1X5/16-18	
9	8307110	1	WASHER, 3/8	
10	8303606	4	HEX HD CAPSCREW, M8X1.25X20, PC8.8	
11	8307222	4	WASHER, M8	
12	8307022	4	LOCKWASHER, M8	
13	8584001	6	TY-RAP	
101	8036466	1	FAN ASSY	B
102	8036464	1	WIRING HARNESS	
103	8036465	1	RELAY, 12 VOLT	
	6623790	1	AC HOSE ASSY, (includes items 201 thru 212)	
201	2716851	1	CONDENSER HOSE, (return)	
202	2716852	1	CONDENSER HOSE, (supply)	
203	6623833	1	COMPRESSOR/EVAPORATOR HOSE	
204	6623834	1	DRYER/EVAPORATOR HOSE	
205	8307004	1	LOCKWASHER, 5/16	
206	8310009	1	HEX HD CAPSCREW, 5/16-18X2, GR5	
207	8750017	2	LOCKING PLATE	
208	8750022	2	CLAMP SET, 1.26 DIA	
209	8750026	2	STACKING BOLT	
210	8750027	1	CLAMP SET, .84 DIA	AA
211	8769128	1	COVER PLATE	
212	2300037	AR	REFRIGERANT FLUID, R-134A (not shown)	
	6623791	1	RECEIVER/DRYER ASSY, (includes items 301 thru 306)	
301	7138478	1	AC DRIER BRACKET	
302	7138483	1	AC RECEIVER DRIER	
303	8405204	2	GEAR CLAMP	
304	8223531	1	PRESURE SWITCH	
305	8303540	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
306	8305624	2	LOCKNUT, 1/4-20	
	7301263	1	EVAPORATOR ASSY, (includes items 401 & 402)	
401	7301262	1	EVAPORATOR COIL	F
402	7301302	1	THERMOSTAT	
	7301814	1	AC COMPRESSOR ASSY, (includes items 501 thru 514)	
501	7130131	3	SPACER	
504	7301815	1	AC COMPRESSOR DRIVE BELT	
505	8276018	1	AC COMPRESSOR	
506	8305630	5	LOCKNUT, M10X1.5	
507	8307028	1	LOCKWASHER, .5	
508	8310736	1	HEX HD CAPSCREW, M10X1.5X50, PC10.9, (torque to 48-87 Nm)	
509	7301783	1	AC COMPRESSOR BRACKET	
510	8307221	4	WASHER, M10	

SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
511	8310534	3	HEX HD CAPSCREW, M10X1.5X40, PC10.9, (torque to 48-87 Nm)	
512	8310737	1	ROD END, M10X1.5X100	
513	0711017	3	HEX HD CAPSCREW, M10X45	
514	0100011	AR	LOCTITE, #242, (apply to item 413)	
602	1001116797	1	ACCESSORY DRIVE SHEAVE	

FIGURE 6-9. ARCTIC HEATER



PAP046B

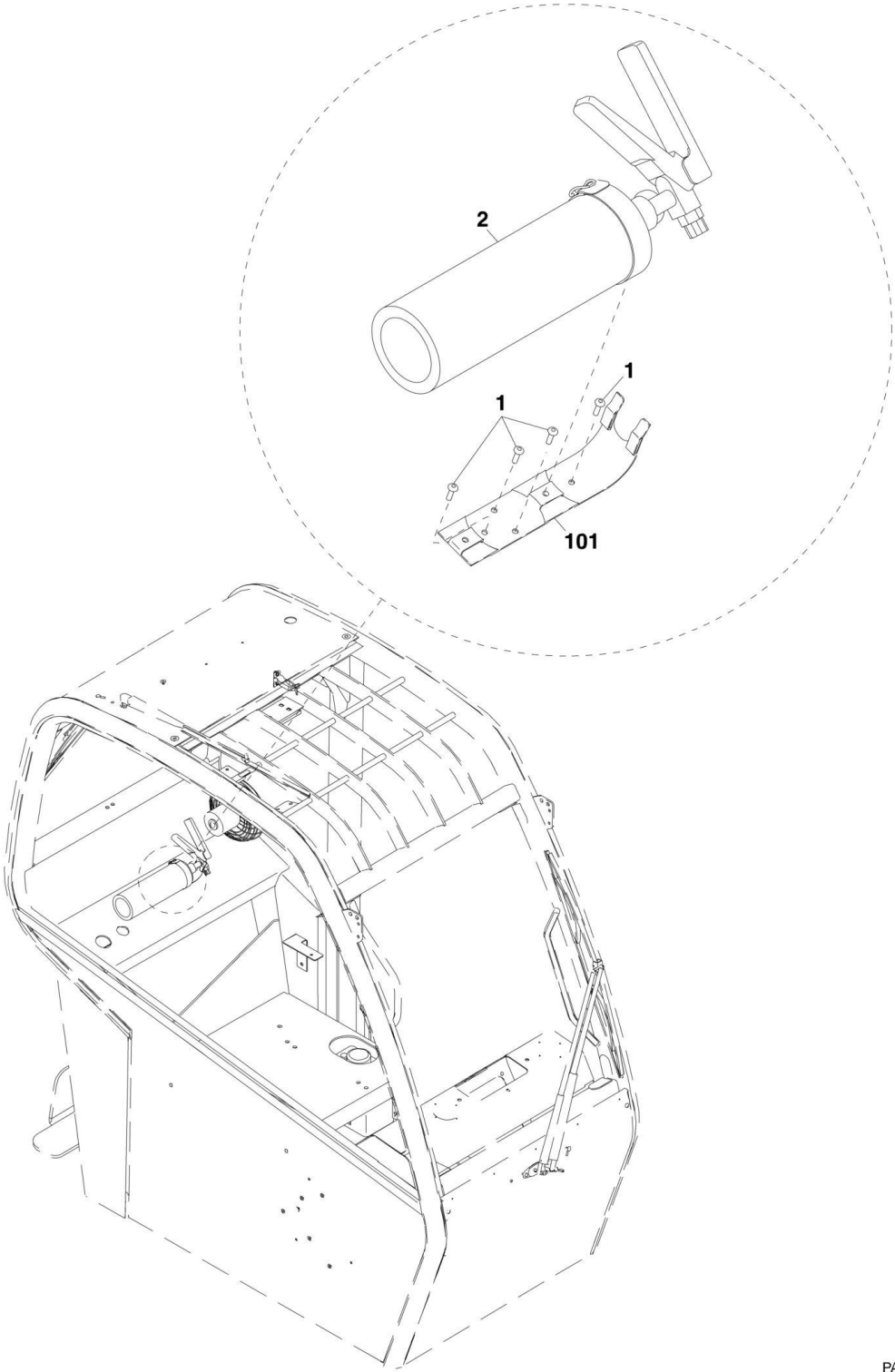
FIGURE 6-9. ARCTIC HEATER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100668	1	ARCTIC HEATER, (includes items 1 thru 28)	B
1	0681816	4	HEX HD CAPSCREW, 1/2-13X2	
2	3271801	4	HEX NUT, 1/2-13	
3	4761800	4	LOCKWASHER, 1/2	
4	8303626	2	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
5	8305644	2	LOCKNUT, 1/2-13	
6	8307206	4	WASHER, 1/2	
9	1001100520	1	ARCTIC KIT HEATER ASSY, (includes items 101 thru 107)	A
10	1001100541W	1	BOTTOM CAB SUPPORT PLATE	
11	1001100576	1	CAB BULKHEAD ASSY, (includes items 202 thru 209)	B
14	1001100669W	1	TOOL BOX	
15	1001100798	4	SPACER	
19	8303540	1	HEX HD CAPSCREW, 1/4-20X1, GR5	
20	8303670	2	HEX HD CAPSCREW, 5/16-18X1	
21	8305624	1	LOCKNUT, 1/4-20	
22	8305626	2	LOCKNUT, 5/16-18	
23	8307106	4	WASHER, 5/16	
24	8307109	2	WASHER, 1/4	
25	8310420	4	NUT, FLANGE, 5/16-18	
26	1001110391	1	FUEL PUMP MOUNTING PLATE	
27	1001110497	2	GROMMET	
28	8750022	3	CLAMP SET	
101	1001100510	1	TOP COVER	
102	1001100511	1	BOTTOM COVER	
103	1001100517	1	ARCTIC HEATER SUPPORT	
104	1001100519	1	HEATER	
105	Kit	4	SHOCK MOUNT ASSY	
106	1001100642	1	EXHAUST	
107	1001100641	1	AIR COMBUSTION HOSE	
202	1001100542	1	CAB HYDRAULICS BULKHEAD PLATE	
208	2171308	6	ADAPTOR, 8-8	
209	2171306	6	ADAPTOR, 6-6	
	1001101162	1	ARCTIC HOSE KIT ASSY, (includes items 301 thru 311)	A
301	3311701	1	HEX NUT, 7/16-14, GR2	
302	8303677	1	HEX HD CAPSCREW, 7/16-14X1, GR5	
303	8405007	4	GEAR CLAMP, 1.25	
304	8406201	1	TUBE CLIP	
305	8526044	AR	SEALANT	
306	8530040	1	STREET RUN TEE	
307	8540218	1	ADAPTOR, 90	
308	8584003	1	TY-RAP	
309	1001101101	1	HOSE ASSY, (water in)	
310	1001101102	1	HOSE ASSY, (water out)	
311	1001101192	2	STRAIGHT FITTING	
	1001101727	Ref	CAB HYDRAULICS INSTALLATION	B
407	8310308	9	WASHER, 1/2, HARDENED	
410	8310625	3	LOCKNUT, M12X1.75	
411	8310730	6	HEX HD CAPSCREW, M12X1.75X45MM, PC10.9	
412	8405009	2	GEAR CLAMP	
413	8406302	1	HOSE CLAMP, 1.25	

SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
414	1001110390	1	MALE RUN TEE, BARBED	

FIGURE 6-10. FIRE EXTINGUISHER



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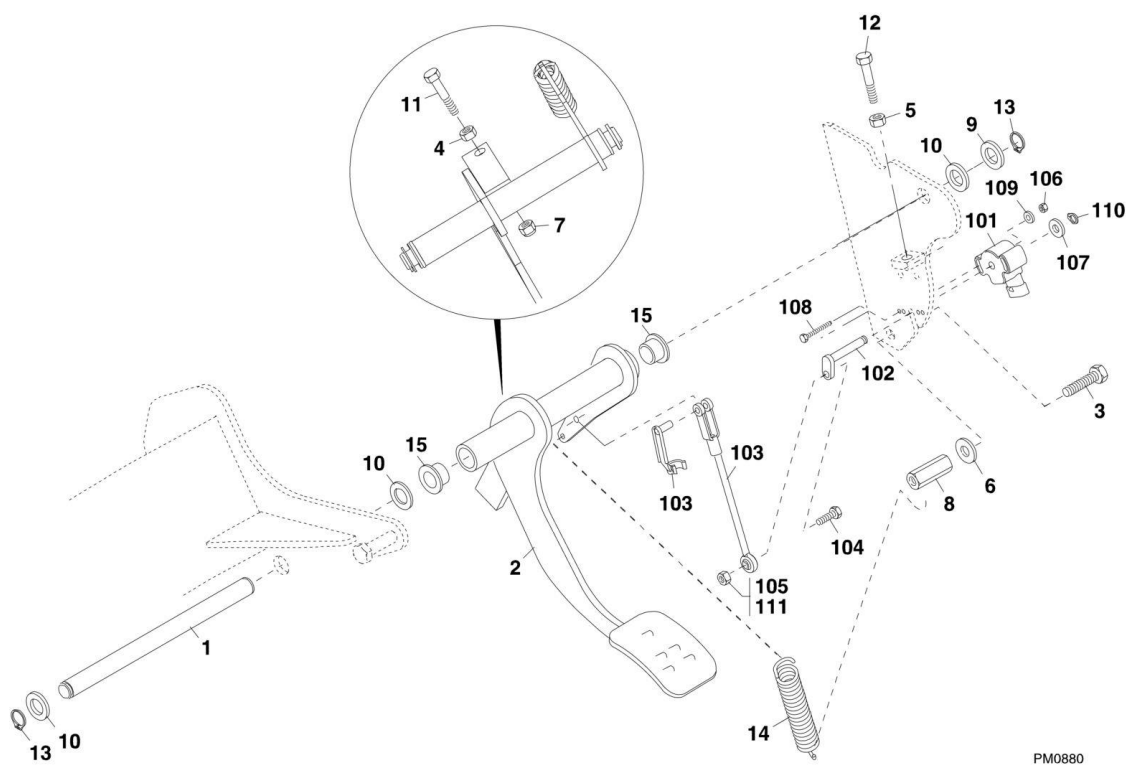
FIGURE 6-10. FIRE EXTINGUISHER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001109865	1	FIRE EXTINGUISHER INSTALLATION, (includes items 1 & 2)	A
1	8310372	4	SCREW, BUTTON HEAD, #10-24X5/8	
2	1001099699	1	FIRE EXTINGUISHER ASSY, (includes item 101)	
101	1001100082	1	FIRE EXTINGUISHER BRACKET	

SECTION 7 - CONTROLS

SECTION 7 - CONTROLS

FIGURE 7-1. ACCELERATOR PEDAL ASSEMBLY



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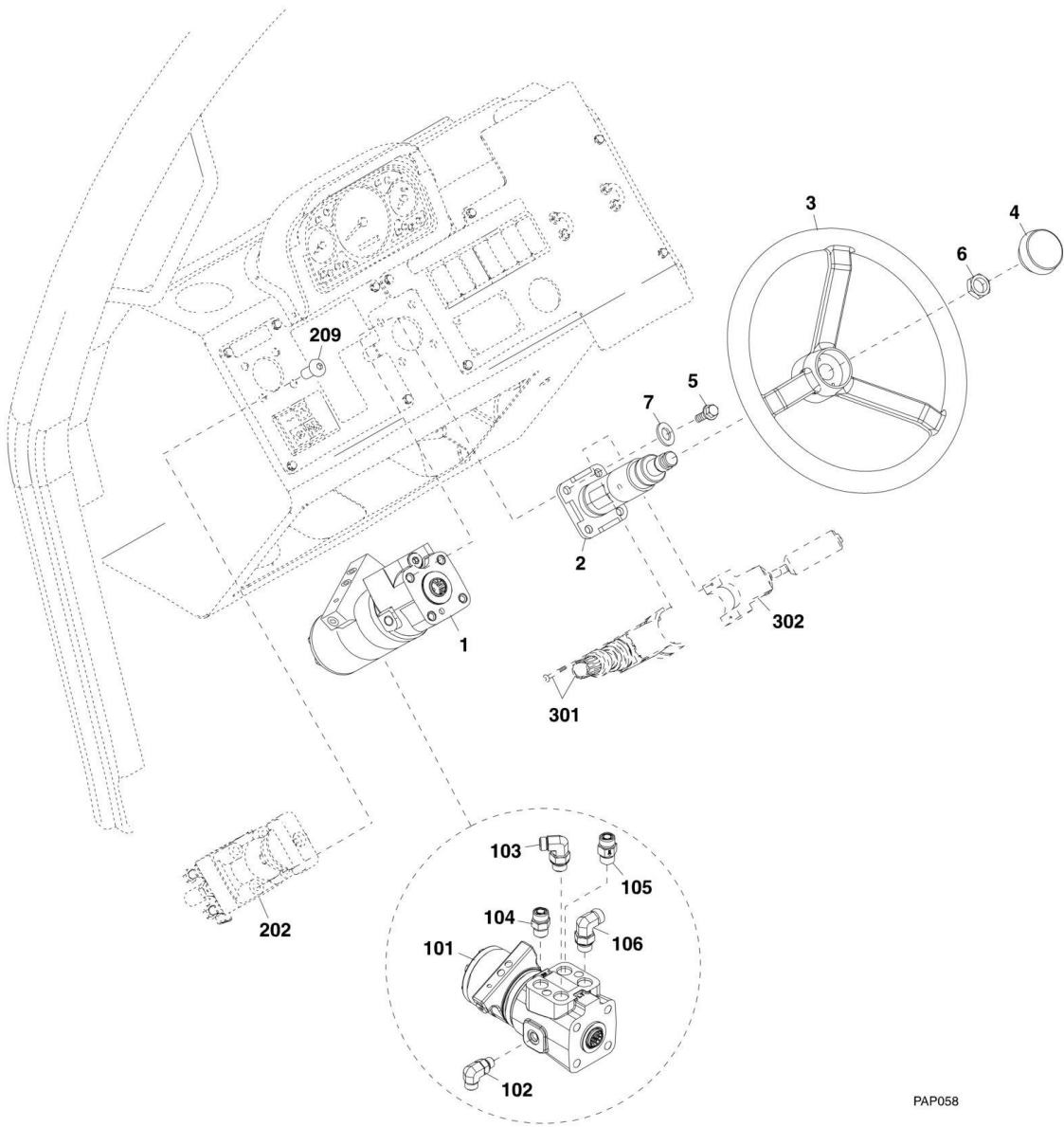
SECTION 7 - CONTROLS

FIGURE 7-1. ACCELERATOR PEDAL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7151327	1	THROTTLE PEDAL ASSY, (includes items 1 thru 14)	AD
1	7139108	1	PIVOT SHAFT	
2	7151285	1	ACCELERATOR PEDAL, (includes items 15)	
3	8303624	1	HEX HD CAPSCREW, 1/2-13X1, (torque to 69-122 Nm)	
4	8305038	1	HEX NUT, M10-1.5	
5	8305043	1	HEX NUT, M8-1.25	
6	8307112	1	WASHER, 1/2	
7	8305630	1	LOCKNUT, M10-1.5	
8	8310746	1	COUPLING NUT	
9	8310507	1	SHIM WASHER, .755X.048X1.25	
10	8310508	3	SHIM WASHER, .755X.075X1.25	
11	8310715	1	HEX HD CAPSCREW, M10-1.5X55MM, PC8.8, (torque to 46-59 Nm)	
12	8310716	1	HEX HD CAPSCREW, M8-1.25X55MM, PC8.8, (torque to 17-31 Nm)	
13	8630020	2	SNAP RING	
14	8700126	1	EXTENSION SPRING, 1X7.23	
15	7300143	2	OILITE FLANGE BUSHING	D
	7301395	1	THROTTLE POSITION SENSOR ASSY, (includes items 101 thru 111)	
101	7301392	1	THROTTLE SENSOR, ROTARY POSITION	
102	7301393	1	SENSOR LEVER, ROTARY POSITION	
103	7301394	1	THROTTLE LINKAGE ASSY	
103	10138818	1	YOKE END W/SPRING PIN	
104	8303005	1	HEX HD CAPSCREW, 1/4-20X7/8, GR5	
105	8305624	1	NUT, 1/4-20, (loctite and torque to 17-31 Nm)	
106	8310410	2	HEX NUT, #8-32	
107	8307202	1	WASHER, 1/4	
108	8310728	2	HEX HD CAPSCREW, #8-32X1.5, (torque to 1.5-3 Nm)	
109	8310732	2	WASHER, #8	
110	8630027	1	SNAP RING, 5/16	
111	0100011	AR	LOCTITE, #242, (apply to item 105)	

SECTION 7 - CONTROLS

FIGURE 7-2. STEERING COLUMN AND RELATED PARTS



PAP058

SECTION 7 - CONTROLS

FIGURE 7-2. STEERING COLUMN AND RELATED PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623723	1	STEERING COLUMN ASSY, (includes items 1 thru 7)	AB
1	6623322	1	STEERING VALVE ASSY, (includes items 101 thru 106)	G
2	7138833	1	STEERING COLUMN	
3	7138836	1	STEERING WHEEL	
4	7138878	1	HORN BUTTON	
4	7029367	1	HORN BRUSH KIT	
5	8303777	4	HEX HD CAPSCREW, M10X1.5X35MM, PC8.8	
6	8305916	1	STEERING WHEEL NUT	
7	8307221	4	WASHER, M10	
101	8721031	1	ORBITAL STEER VALVE	
102	2130604	1	ADAPTOR, 90, 6-4	
103	2130608	1	ADAPTOR, 90, 6-8	
104	2110808	1	STRAIGHT ADAPTOR, 8-8	
105	8770131	1	CHECK VALVE	
106	2130808	1	ADAPTOR, 90, 8-8	
202		Ref	STEER SELECT VALVE ASSY, (See HYDRAULIC COMPONENTS for Breakdown)	A
209	8310518	4	HEX HD CAPSCREW, M8-1-1/4X35MM, PC8.8	
301		Ref	TRANSMISSION CONTROL SELECTOR, (See ELECTRICAL SECTION for Breakdown)	
302		Ref	TURN SIGNAL LEVER, (See ELECTRICAL SECTION for Breakdown)	

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SECTION 7 - CONTROLS

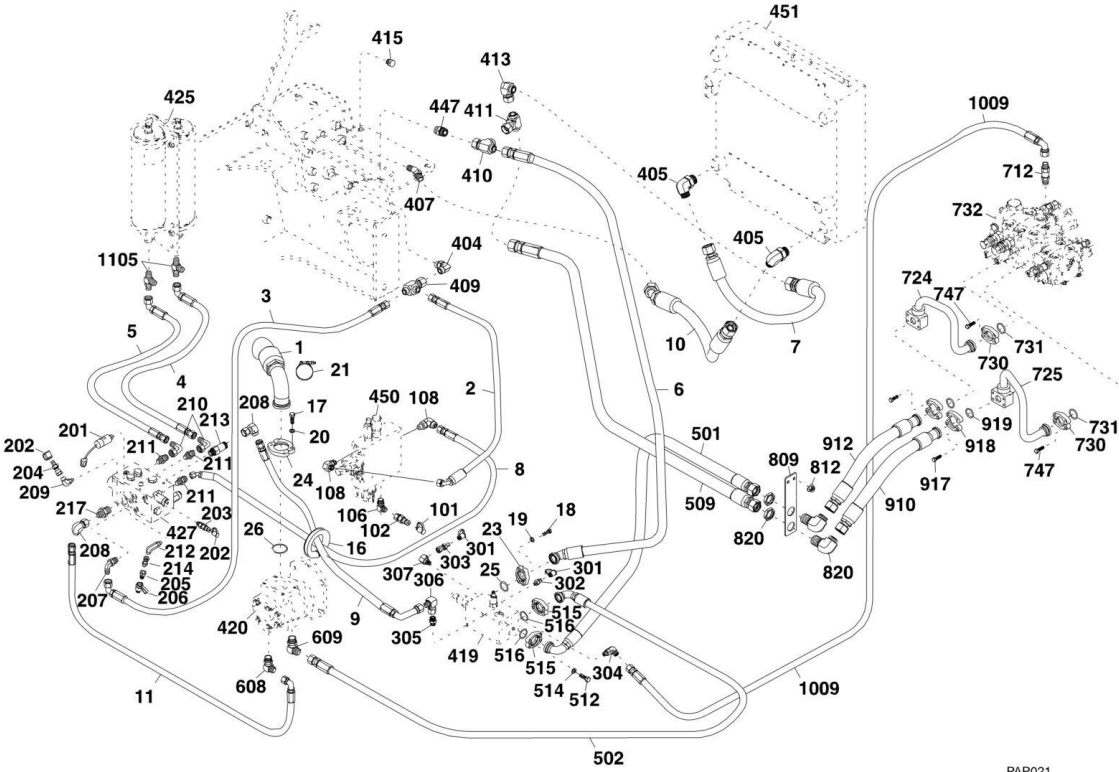
FIGURE 7-3. BRAKE PEDAL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7151326	1	BRAKE PEDAL ASSY, (includes items 1 thru 10)	AB
1	7139108	1	PIVOT SHAFT	
2	7301066	1	BRAKE PEDAL ASSY, (includes items 101 thru 107)	AA
3	8303261	1	HEX HD CAPSCREW, M12-1.75 X 100MM PC 8.8, (torque to 90 Nm)	
4	8305044	1	HEX NUT, M12	
5	8307220	2	WASHER, M12-1.75	
6	8310507	1	SHIM WASHER, .755X.048X1.25	
7	8310508	3	SHIM WASHER, .755X.075X1.25	
8	8310625	1	LOCKNUT, M12-1.75	
9	8630020	2	SNAP RING, .75	
10	8700125	1	EXTENSION SPRING, 1X7.12 LG	
101	7300135	2	PIN CLIP	
102	7300136	1	SHAFT PIN	
103	7300137	1	ROLLER, 1 DIA	
104	7300143	2	OILITE FLANGE BUSHING	
105	7301065	1	BRAKE PEDAL WELDMENT	
106	8303739	1	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
107	8310453	1	HEX NUT, 5/16-18, GR5	
204	7301141	1	BRAKE VALVE ASSY, (includes items 301 thru 306)	F
205	8305638	2	LOCKNUT, M8X1.25	
206	8307222	2	WASHER, M8	
208	8310476	2	HEX HD CAPSCREW, M8-1.25X35MM, PC8.8	
301	8430032	2	DUST CAP	
302	8430081	2	DIAGNOSTIC NIPPLE, (torque to 24-26 lb-ft)	
303	2172106	3	SWIVEL ELBOW, 90, (torque to 24-26 lb-ft)	
304	2170306	3	MALE RUN TEE, (torque to 24-26 lb-ft)	
305	2130606	2	ELBOW, 90, (torque to 24-26 lb-ft)	
306	1001103493	1	BRAKE VALVE	
306	70029920	1	REPAIR KIT	
411		Ref	STABILITY BRAKE SWITCH, (See ELECTRICAL SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. CONTROL VALVES HYDRAULIC CIRCUIT



PAP021

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. CONTROL VALVES HYDRAULIC CIRCUIT

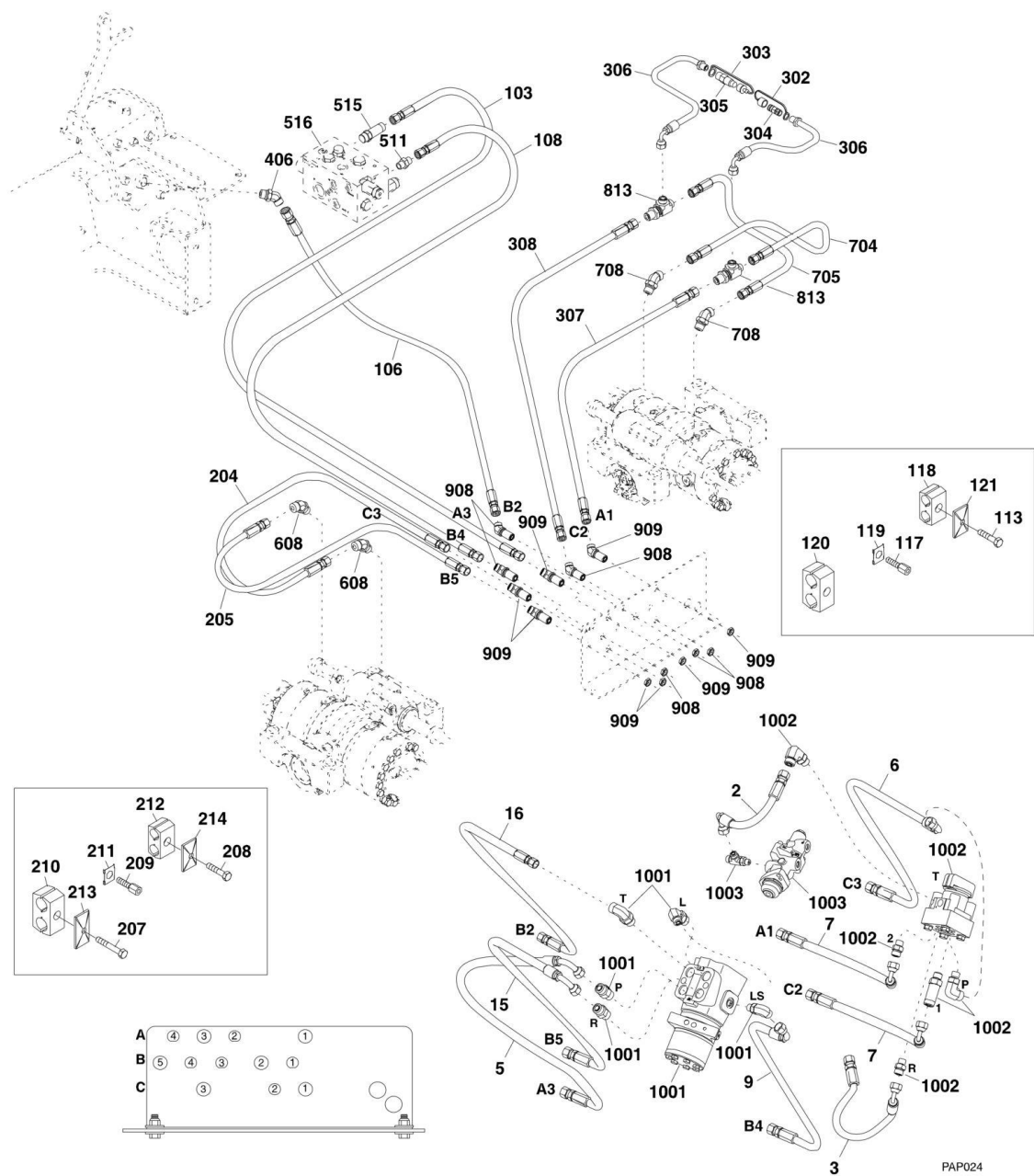
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001113178	Ref	ENGINE POD, HOSE INSTALLATION, (not available to order, see items 1 thru 26 for service)	A
1	2716520	1	HOSE ASSY	
2	2716567	1	HOSE ASSY	
3	2716880	1	HOSE ASSY	
4	2716882	1	HOSE ASSY	
5	2716883	1	HOSE ASSY	
6	2716892	1	HOSE ASSY	
7	2716893	1	HOSE ASSY	
8	2717244	1	HOSE ASSY	
9	2717245	1	HOSE ASSY	
10	2717246	1	HOSE ASSY	
11	2717247	1	HOSE ASSY	
16	6620521	1	CONDUIT	
17	8303626	4	HEX HD CAPSCREW, 1/2-13X1-1/2	
18	8303675	4	HEX HD CAPSCREW, 3/8-16X1-1/4	
19	8307005	4	LOCKWASHER, 3/8	
20	8307007	4	LOCKWASHER, 1/2	
21	8405209	1	T-BOLT CLAMP	
23	8530030	2	HALF FLANGE, #16	
24	8546407	2	HALF FLANGE, #32	
25	8640123	1	O-RING	
26	8640208	1	O-RING	
	1001104424	1	VALVE ASSY, SECONDARY HYDRAULIC, (includes items 101 thru 108)	A
101	8430032	1	DUST PLUG	
102	8430081	1	DIAGNOSTIC NIPPLE	
106	2130606	1	ELBOW, 90, SAE 8	
108	2130808	2	ELBOW, 90	
	7301445	1	ACCUMULATOR CHARGE VALVE ASSEMBLY, (includes items 201 thru 217)	D
201		Ref	PRESSURE SWITCH, (See ELECTRICAL SECTION for Breakdown)	
202	8430032	2	DUST PLUG	
203	8430033	1	DIAGNOSTIC NIPPLE, 1/8 BODY	
204	8430081	1	DIAGNOSTIC NIPPLE	
205	8430100	1	DIAGNOSTIC NIPPLE	
206	8430102	1	DUST PLUG	
207	2130606	1	ELBOW, 90, SAE 6	
208	2172112	2	SWIVEL ELBOW, 90, SAE 12FF	
209	2130604	1	ADAPTOR, 90, 6-4	
210	8770105	2	SWIVEL ELBOW, 90, SAE 6	
211	8770106	3	STRAIGHT CONNECTOR, SAE 6	
212	2170206	1	ELBOW, 90, SAE 6-6	
213	2170112	1	CONNECTOR	
214	2221123	1	SWIVEL CONNECTOR, SAE 6	
217	8902861	1	CHECK VALVE	
	6623409	1	UNLOADER VALVE ASSEMBLY, (includes items 301 thru 307)	F
301	8430032	2	DUST PLUG	
302	8430033	1	DIAGNOSTIC NIPPLE, 1/8 BODY	

SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
303	8430081	1	DIAGNOSTIC NIPPLE	
304	2130606	1	ELBOW, 90, SAE 6	
305	2111216	1	STRAIGHT CONNECTOR, SAE 12-16	
306	2172112	1	ELBOW, 90, SAE 12-12	
307	2130604	1	ELBOW, 90, SAE 6-4	
404	2130808	1	ADAPTOR, 90, 8-8	
405	2131216	2	ELBOW, 90, SAE 16-12	
407	2151212	1	ELBOW, 45, SAE 12-12	
409	2170708	1	RUN TEE	
410	2170716	1	RUN TEE	
411	2170816	1	RUN TEE	
413	2172108	1	ELBOW, 90, SAE 8-8	
415	2220240	1	PLUG	
419		Ref	UNLOADER VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
420		Ref	GEAR PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
425		Ref	ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
427		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
447	8902856	1	CHECK VALVE	
450		Ref	SECONDARY FUNCTION MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
451		Ref	RADIATOR ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
501	2716631	1	HOSE ASSY	
502	2716633	1	HOSE ASSY	
509	2717248	1	HOSE ASSY	
512	8303675	8	HEX HD CAPSCREW, 3/8-16X1-1/4	
514	8307005	8	LOCKWASHER, 3/8	
515	8530030	4	HALF FLANGE, #16	
516	8640123	2	O-RING	
608	2131212	1	ELBOW, 90, SAE 12	
609	2131612	1	ELBOW, 90, SAE 16-12	
712	2170106	1	CONNECTOR, SAE 6	
724	7138784	1	TUBE ASSY	
725	7138785	1	TUBE ASSY	
730	8530030	4	HALF FLANGE, #16	
731	8640123	2	O-RING	
732		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
747	8303675	8	HEX HD CAPSCREW, 3/8-16X1-1/4	
809	7139179	1	HIGH PRESSURE LINES BRACKET	
812	8310522	2	FLANGE NUT, 3/8-6NC	
820	2171216	2	BULKHEAD ELBOW, 90, SAE 16	
910	2716855	1	HOSE ASSY	
912	2716531	1	HOSE ASSY	
917	8303675	8	HEX HD CAPSCREW, 3/8-16X1-1/4	
918	8530030	4	HALF FLANGE, #16	
919	8640123	2	O-RING	
1009	2716641	1	HOSE ASSY	
1105	2170308	2	MALE RUN TEE, SAE 8	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. STEERING



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SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. STEERING

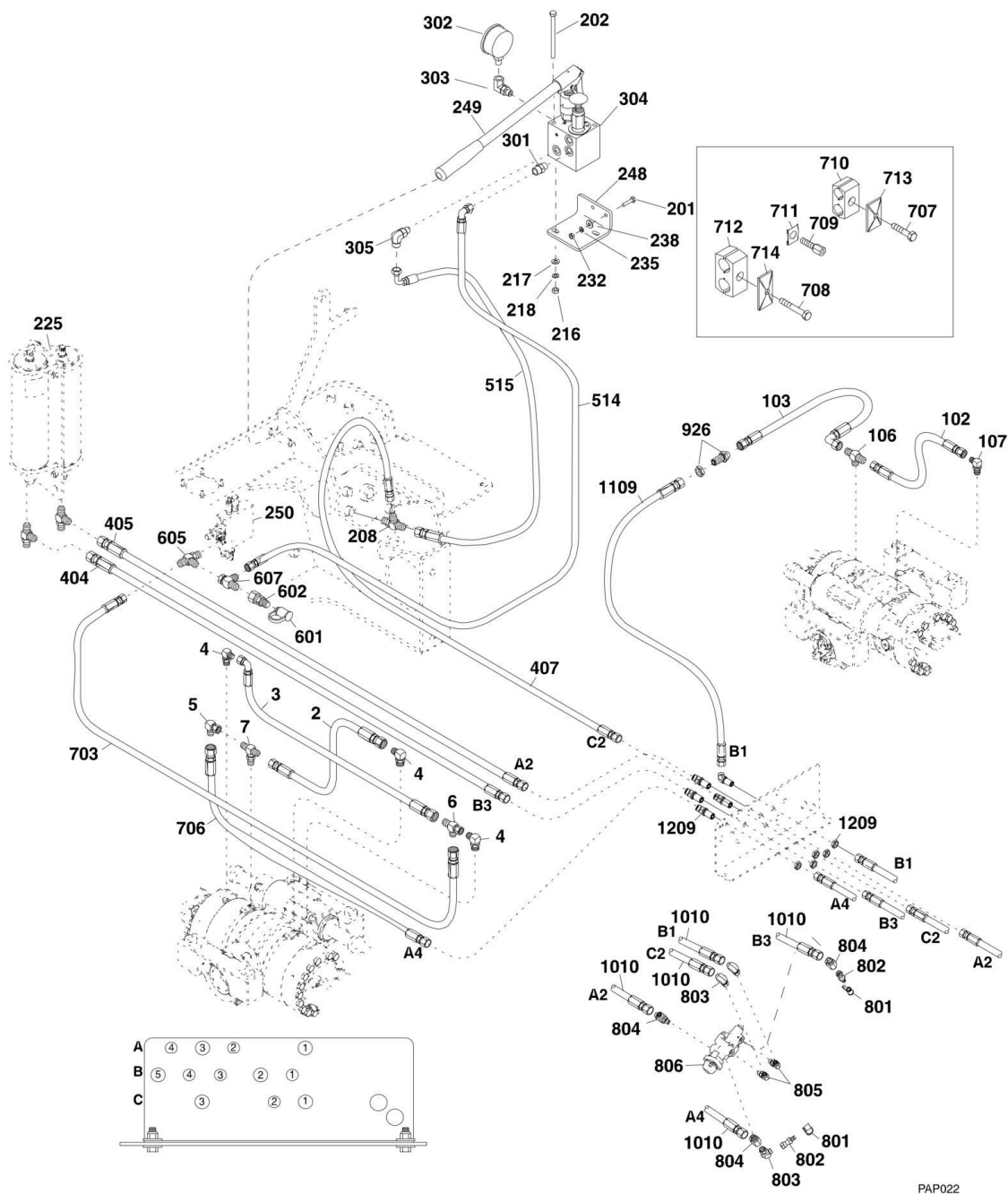
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623897	Ref	HYDRAULIC CAB PLUMBING INSTALLATION, (not available to order, see items 2 thru 16 for service)	AB
2	2716927	1	HOSE ASSY	
3	2717211	1	HOSE ASSY	
5	2717207	1	HOSE ASSY	
6	2717208	1	HOSE ASSY	
7	2717212	2	HOSE ASSY	
9	2717214	1	HOSE ASSY	
15	2717219	1	HOSE ASSY	
16	2717285	1	HOSE ASSY	
	1001113298	Ref	ENGINE POD, FRAME HOSE INSTALLATION, (not available to order, see items 103 thru 121 for service)	A
103	2717220	1	HOSE ASSY	
106	2717233	1	HOSE ASSY	
108	2717226	1	HOSE ASSY	
113	8303715	1	HEX HD CAPSCREW, 5/16-18X1.5	
117	8750012	1	STACKING BOLT	
118	8750015	1	CLAMP SET, 0.67 DIA	
119	8750017	1	LOCKING PLATE	
120	8750027	1	CLAMP SET, 0.84 DIA	
121	8769123	1	COVER PLATE, CLAMP SET, 0.84 DIA	
	6623942	Ref	FRONT AXLE PLUMBING INSTALLATION, (not available to order, see items 204 thru 214 for service)	AA
204	2717228	1	HOSE ASSY	
205	2717231	1	HOSE ASSY	
207	8303715	AR	HEX HD CAPSCREW, 5/16-18X1.5	
208	8310009	AR	HEX HD CAPSCREW, 5/16-18X2	
209	8750012	AR	STACKING BOLT	
210	8750015	AR	CLAMP SET, 0.67 DIA	
211	8750017	AR	LOCKING PLATE	
212	8750027	AR	CLAMP SET, 0.84 DIA	
213	8769123	AR	COVER PLATE, CLAMP SET, 0.84 DIA	
214	8769128	AR	COVER PLATE, CLAMP SET	
	1001113238	Ref	REAR AXLE HYDRAULIC INSTALLATION, (not available to order, see items 302 thru 308 for service)	A
302	8430053	1	DUST CAP, #6	
303	8430054	1	DUST CAP, #6	
304	8430083	1	QUICK DISCONNECT COUPLING, FEMALE	
305	8430084	1	QUICK DISCONNECT NIPPLE, MALE	
306	2716841	2	HOSE ASSY	
307	2717229	1	HOSE ASSY	
308	2717230	1	HOSE ASSY	
406	2150808	1	ELBOW, 45, SAE 8	
511	2110606	1	STRAIGHT ADAPTOR, 6-6	
515	2170110	1	CONNECTOR	
516		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
608	2150808	2	ELBOW, 45, SAE 8	
704	2716538	1	HOSE ASSY	
705	2716539	1	HOSE ASSY	
708	2150808	2	ELBOW, 45, SAE 8	

SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
813	8770167	2	BULKHEAD CONNECTOR, 8FF	
908	2171308	4	ADAPTOR, 8-8	
909	2171306	3	ADAPTOR, 6-6	
1001		Ref	STEERING VALVE ASSY, (See CONTROLS SECTION for Breakdown)	
1002		Ref	STEER SELECT VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
1003		Ref	MICO BRAKE VALVE ASSY, (See CONTROLS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. SERVICE/PARKING



PAP022

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. SERVICE/PARKING

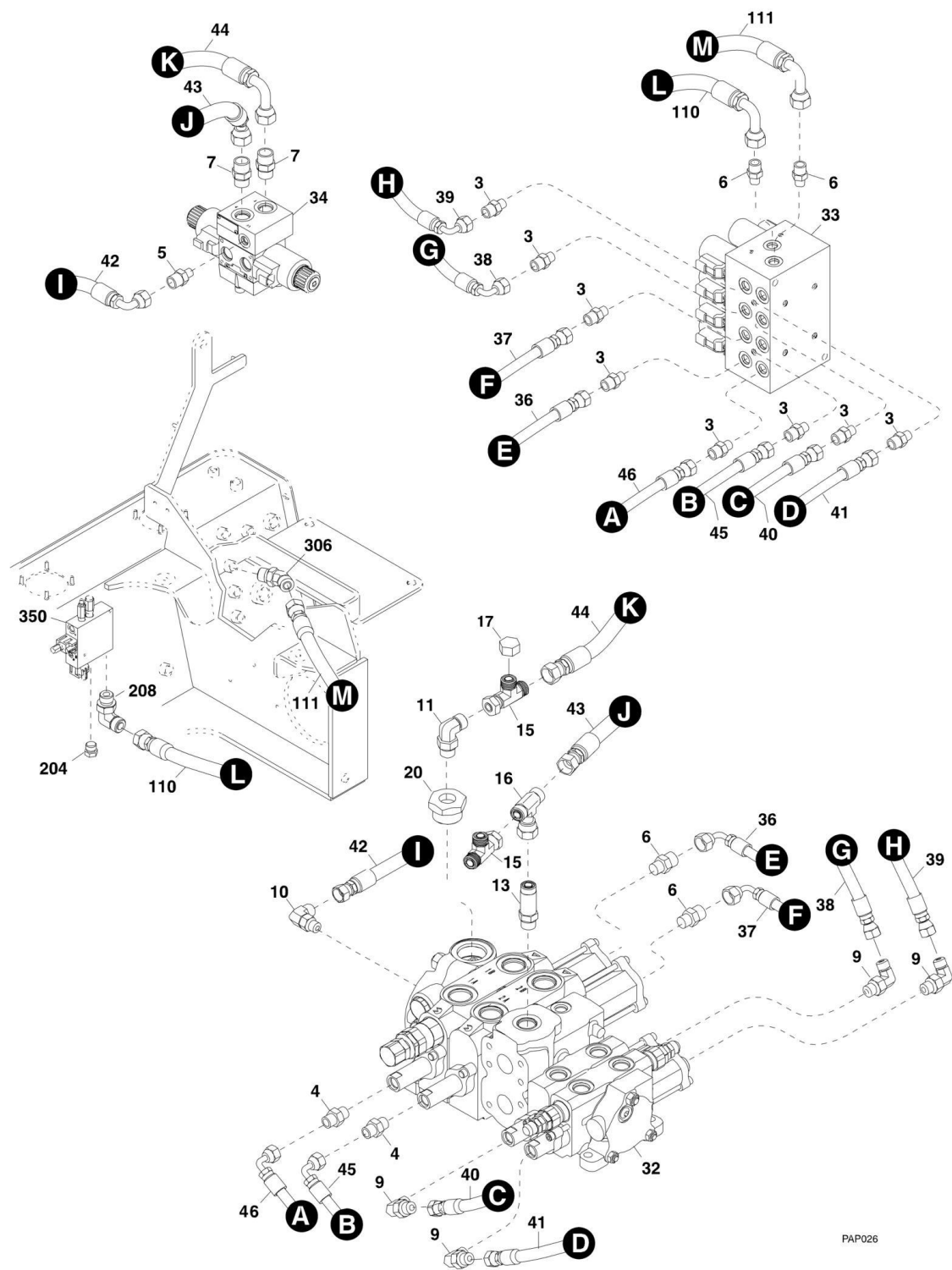
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623954	Ref	FRONT AXLE INSTALLATION, (not available to order, see items 2 thru 7 for service)	B
2	2716536	1	HOSE ASSY	
3	2716648	1	HOSE ASSY	
4	2130606	3	ELBOW, 90, SAE 6	
5	2172106	1	SWIVEL ELBOW, 90, SAE 6	
6	2170706	1	SWIVEL RUN TEE, SAE 6	
7	2170406	1	BRANCH TEE, SAE 6 - STR. THD. ORB X OFS	
	6623955	Ref	REAR AXLE INSTALLATION, (not available to order, see items 102 thru 107 for service)	B
102	2716536	1	HOSE ASSY	
103	2716537	1	HOSE ASSY	
106	2170306	1	MALE RUN TEE, SAE 6	
107	2130606	1	ELBOW, 90, SAE 6	
201	0641409	2	HEX HD CAPSCREW, 1/4-20X1-1/8	
202	0641536	2	HEX HD CAPSCREW, 5/16-18X4-1/2	
208	2170308	1	MALE RUN TEE, SAE 8	
216	3311505	2	LOCKNUT, 5/16-18	
217	4711500	2	WASHER, 5/16	
218	4761500	2	LOCKWASHER, 5/16	
225		Ref	ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
232	8305004	2	HEX NUT, 1/4-20	
235	8307002	2	LOCKWASHER, 1/4	
238	8307202	2	WASHER, 1/4	
248	1001102381	1	BRACKET, VALVE MOUNTING	
249	1001102390	1	HYDRAULIC HAND PUMP, (includes items 301 thru 305)	B
250		Ref	SECONDARY FUNCTION MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
301	2110606	1	STRAIGHT ADAPTOR, 6-6	
302	6623498	1	PRESSURE GAUGE, 1000 PSI	
303	1001113251	1	ADAPTOR, 90, SAE 4-6	
304	1001102389	1	VALVE, BRAKE/CYLINDER RELEASE	
305	2130606	1	ADAPTOR, 90, SAE 6-6	
404	2717221	1	HOSE ASSY	
405	2717222	1	HOSE ASSY	
407	2717224	1	HOSE ASSY	
514	1001113230	1	HOSE ASSY	
515	1001113231	1	HOSE ASSY	
601	8430032	1	DUST PLUG	
602	8430081	1	DIAGNOSTIC NIPPLE	
605	2170306	1	SWIVEL RUN TEE	
607	2170706	1	SWIVEL RUN TEE, SAE 6	
703	2716575	1	HOSE ASSY	
706	2717234	1	HOSE ASSY	
707	8303715	AR	HEX HD CAPSCREW, 5/16-18X1.5	
708	8310009	AR	HEX HD CAPSCREW, 5/16-18X2	
709	8750012	AR	STACKING BOLT	
710	8750015	AR	CLAMP SET, 0.67 DIA	
711	8750017	AR	LOCKING PLATE	

SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
712	8750027	AR	CLAMP SET, 0.84 DIA	
713	8769123	AR	COVER PLATE, CLAMP SET, 0.84 DIA	
714	8769128	AR	COVER PLATE, CLAMP SET	
801	8430032	2	DUST PLUG	
802	8430081	2	DIAGNOSTIC NIPPLE	
803	2172106	3	SWIVEL ELBOW, 90	
804	2170306	3	MALE RUN TEE, SAE 6	
805	2130606	2	ELBOW, 90, SAE 6	
806		Ref	BRAKE MODULATING VALVE, (See CONTROLS SECTION for Breakdown)	
926	2171106	1	BULKHEAD CONNECTOR, SAE 6	
1010	2717215	5	HOSE ASSY	
1109	2717235	1	HOSE ASSY	
1209	2171306	5	ADAPTOR, 6-6	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. BOOM FUNCTION/MAIN CONTROL VALVE



PAP026

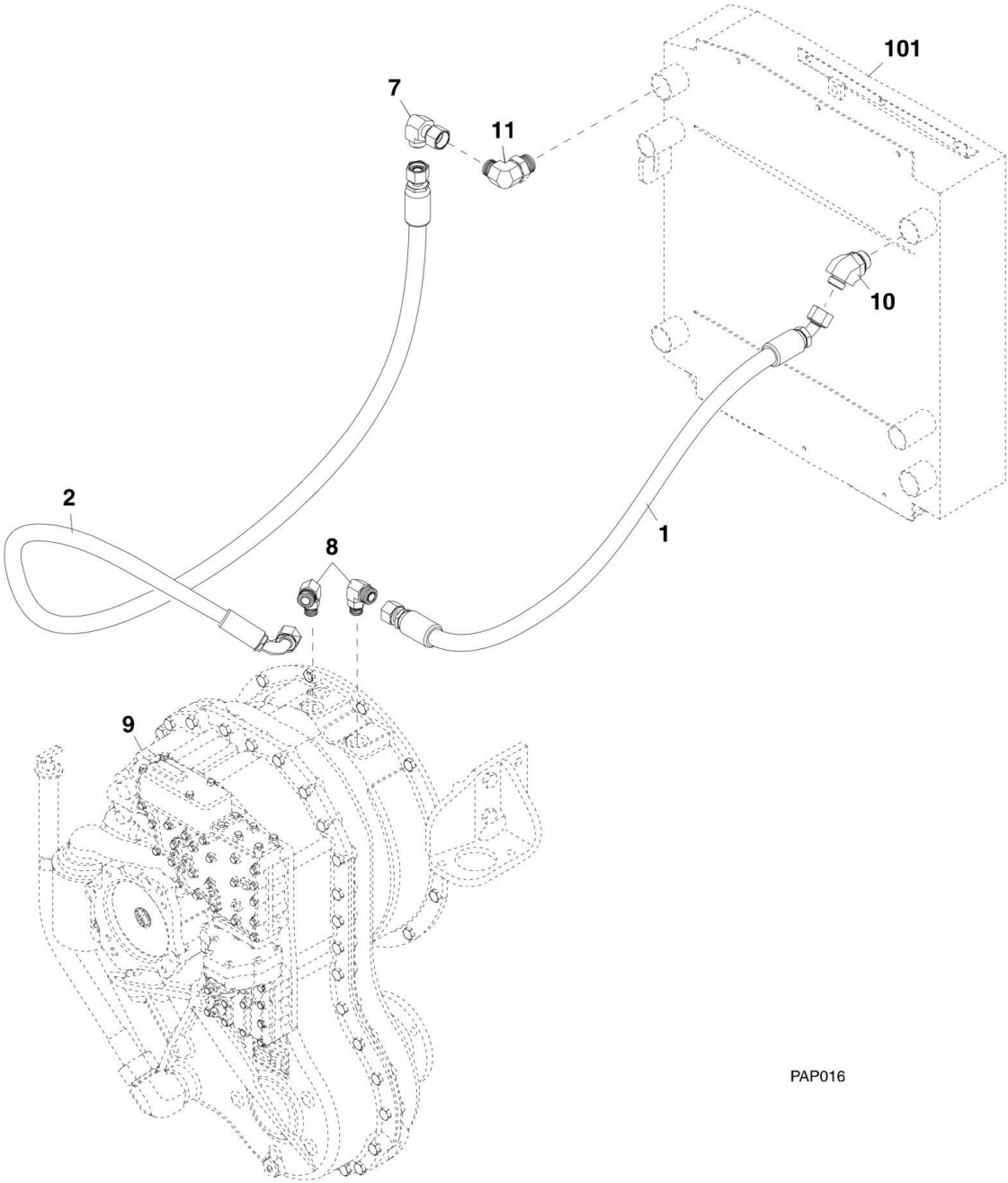
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. BOOM FUNCTION/MAIN CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101718	Ref	MAIN VALVE PLATE ASSEMBLY, (not available to order, see items 3 thru 46 for service)	C
3	2110404	8	CONNECTOR, SAE 4	
4	2110406	2	CONNECTOR, SAE 4-6	
5	2110604	1	CONNECTOR, SAE 6-4	
6	2110606	4	CONNECTOR, SAE 6-6	
7	2110808	2	CONNECTOR, SAE 8	
9	2130406	4	ELBOW, 90, SAE 4-6	
10	2130606	1	ELBOW, 90, SAE 6-6	
11	2130808	1	ELBOW, 90, SAE 8	
13	2170108	1	CONNECTOR, SAE 8	
15	2170708	2	SWIVEL RUN TEE, SAE 8	
16	2170808	1	BRANCH TEE, SAE 8	
17	2170908	1	CAP, SAE 8	
20	2220833	1	CONNECTOR, SAE 8-16	
32		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
33		Ref	PILOT SELECT MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
34		Ref	LOAD SENSE CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
36	1001111378	1	HOSE ASSY	
37	1001111379	1	HOSE ASSY	
38	1001111380	1	HOSE ASSY	
39	1001111381	1	HOSE ASSY	
40	1001111382	1	HOSE ASSY	
41	1001111383	1	HOSE ASSY	
42	1001111384	1	HOSE ASSY	
43	1001111385	1	HOSE ASSY	
44	1001111386	1	HOSE ASSY	
45	1001112412	1	HOSE ASSY	
46	1001112413	1	HOSE ASSY	
110	1001113304	1	HOSE ASSY	
111	1001113305	1	HOSE ASSY	
204	2220237	1	PLUG	
208	2130808	1	ELBOW, 90	
306	2150808	1	ELBOW, 45, SAE 8	
350		Ref	SECONDARY FUNCTION MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. TRANSMISSION OIL COOLER



PAP016

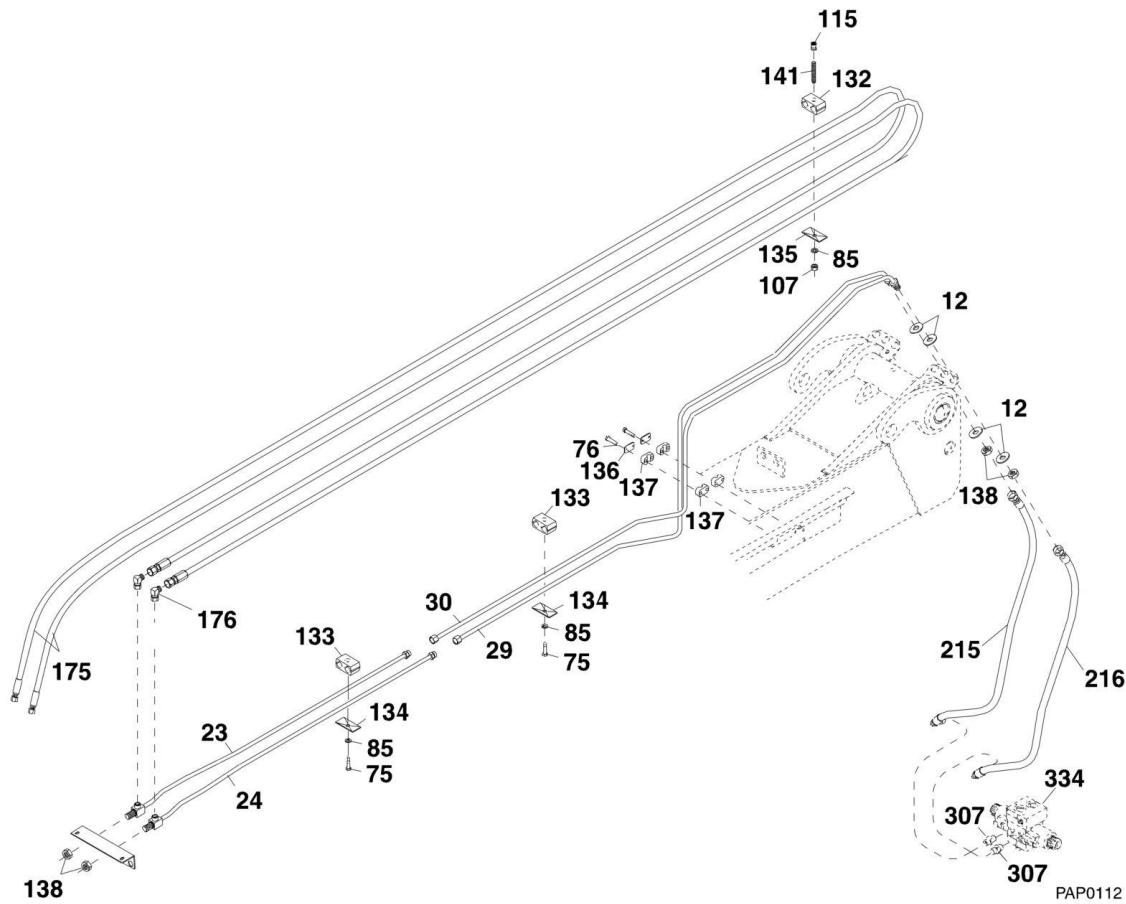
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. TRANSMISSION OIL COOLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2717218	1	HOSE ASSY	
2	2717071	1	HOSE ASSY	
7	2172112	1	ELBOW, 90, 12-12	
8	2131210	2	ELBOW, 90, 12-10	
9		Ref	TRANSMISSION, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
10	2151216	1	ELBOW, 45, 12-16	
11	2131216	1	ELBOW, 90, 12-16	
101		Ref	RADIATOR ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. BOOM



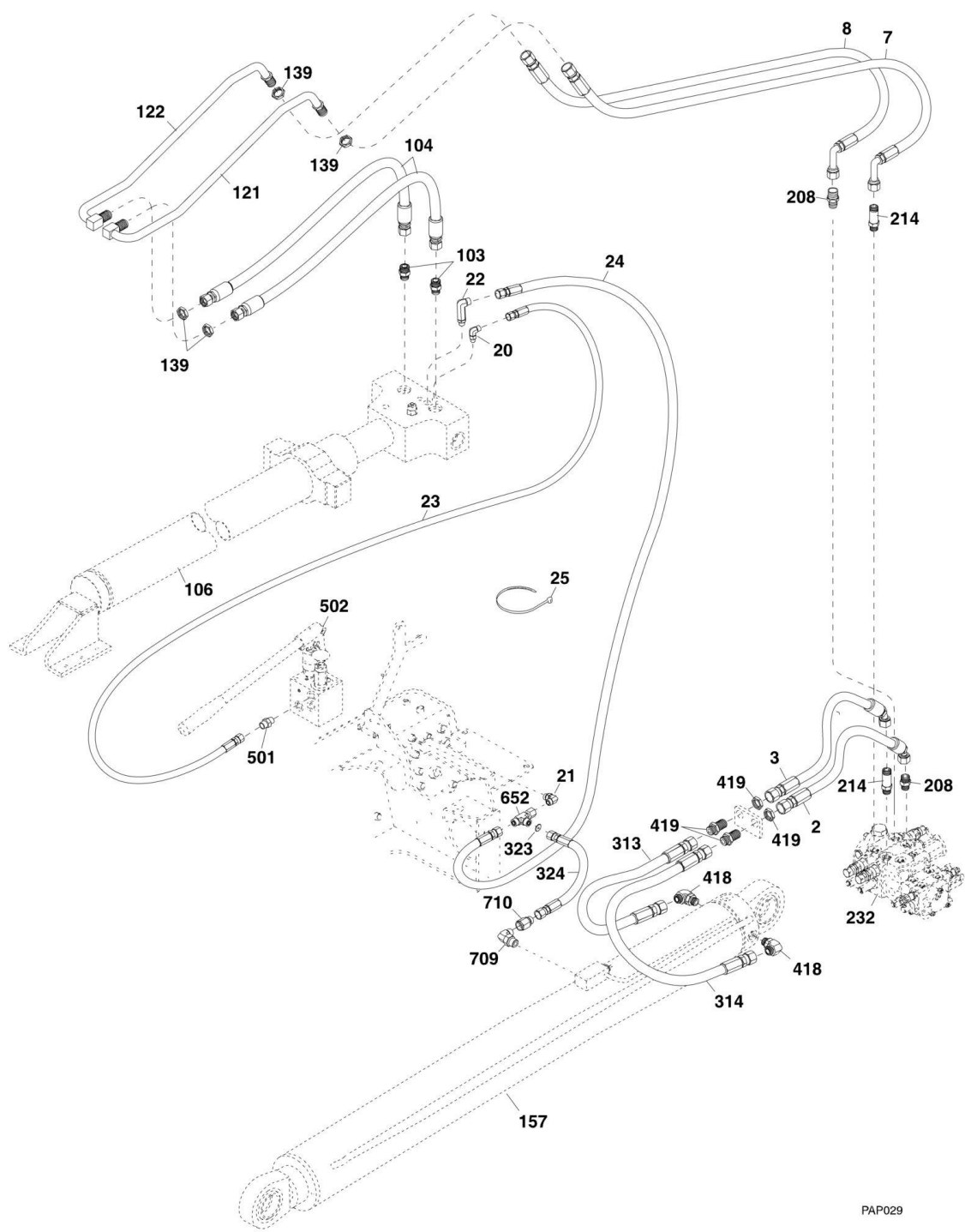
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
12	5724302	4	SHIM	
23	6623518	1	TUBE ASSY, (outside left)	
24	6623519	1	TUBE ASSY, (inside left)	
29	6623527	1	OUTER TUBE ASSY	
30	6623528	1	INNER TUBE ASSY	
75	8303715	2	HEX HD CAPSCREW, 5/16-18X1-1/2	
76	8303743	8	HEX HD CAPSCREW, 1/4-20X1-1/2	
85	8307004	6	LOCKWASHER, 5/16	
107	8310453	1	HEX NUT, 5/16-18	
115	8310568	1	NUTSERT	
132	77323029	1	CLAMP SET, .79 DIA	
133	8769122	2	CLAMP SET, .625 DIA	
134	8769123	2	COVER PLATE	
135	8769128	1	COVER PLATE	
136	8769153	4	COVER PLATE	
137	8769154	4	CLAMP SET, .625 DIA	
138	8770075	4	BULKHEAD NUT, 10FF	
141	10168743	1	SET SCREW, 5/16-18X2-1/2	
175	1001118014	2	HOSE ASSY	
176	2172110	2	ELBOW, 90, (swivel nut)	
215	1001112552	1	HOSE ASSY	
216	1001112552	1	HOSE ASSY	
307	2110808	2	CONNECTOR	
334		Ref	LOAD SENSE CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-7. EXTEND/RETRACT AND LIFT/LOWER



PAP029

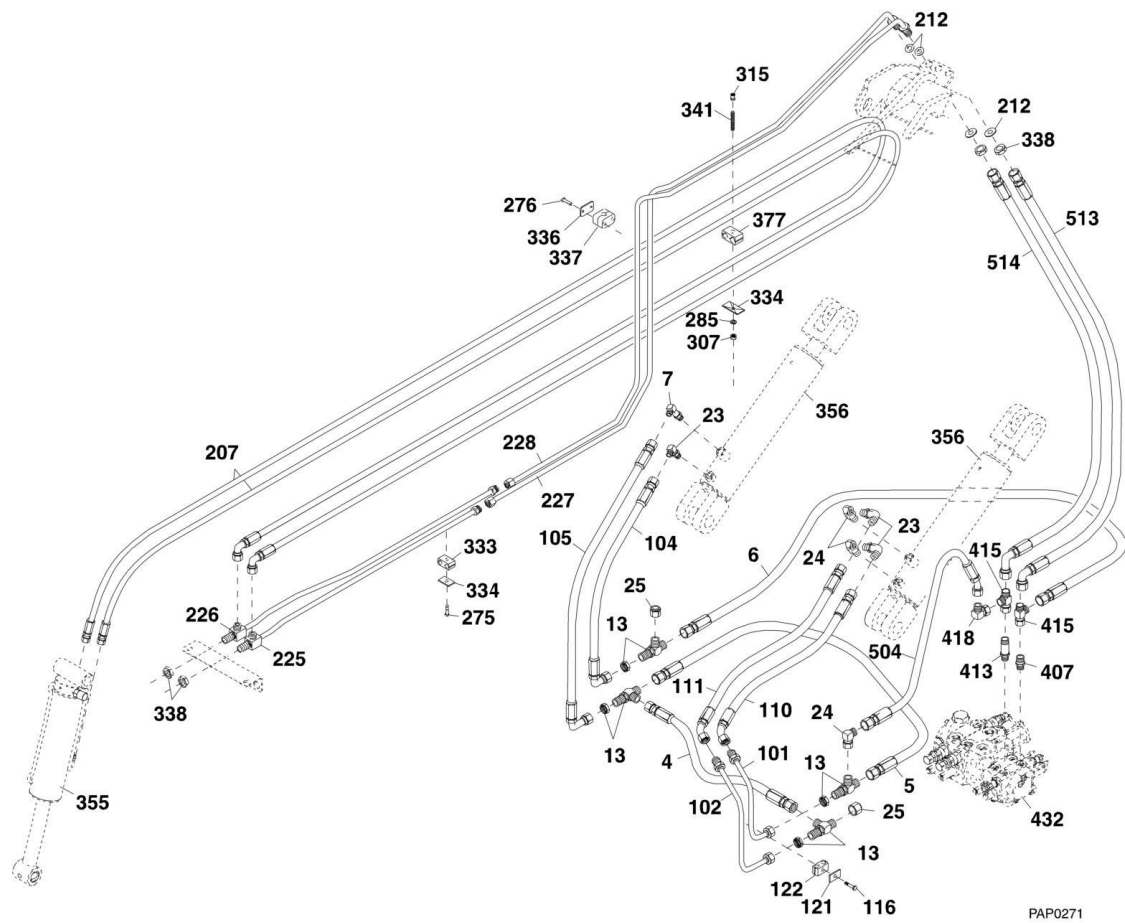
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-7. EXTEND/RETRACT AND LIFT/LOWER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101715	Ref	HYDRAULIC, VALVE PLATE PLUMBING INSTALLATION, (not available to order, see items 2 thru 25 for service)	C
2	2716532	1	HOSE ASSY, (raise)	
3	2716533	1	HOSE ASSY, (lower)	
7	2716642	1	HOSE ASSY, (extend)	
8	2716643	1	HOSE ASSY, (retract)	
20	2130404	1	ADAPTER, 90, SAE 4-4	
21	2150608	1	ADAPTER, 45, SAE 6-8	
22	2170206	1	ADAPTER, 90, SAE 6-6	
23	1001113268	1	HOSE ASSY, (pressure)	
24	1001113269	1	HOSE ASSY, (return)	
25	4240099	AR	PLASTIC TIE WRAP	
103	2111212	2	CONNECTOR, SAE 12	
104	2716492	2	HOSE ASSY	
106		Ref	EXTEND/RETRACT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
121	6623516	1	TUBE ASSY, (extend)	
122	6623517	1	TUBE ASSY, (retract)	
139	8770085	4	BULKHEAD NUT, SAE 12	
157		Ref	LIFT/LOWER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
208	2111212	2	CONNECTOR, SAE 12	
214	2170112	2	CONNECTOR, SAE 12	
232		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
313	2715052	1	HOSE ASSY	
314	2715052	1	HOSE ASSY	
323	7139212	1	ORIFICE DISK, .089	
324	1001114160	1	HOSE ASSY	
418	2131212	2	ELBOW, 90, SAE 12	
419	2171112	2	BULKHEAD CONNECTOR, SAE 12	
501	2110606	1	STRAIGHT ADAPTER, 6-6	
502		Ref	HYDRAULIC HAND PUMP, (See SERVICE/PARKING for Breakdown)	
652	2170706	1	SWIVEL RUN TEE, SAE 6-6-6	
709	2130608	1	ADAPTOR, 90, 6-8	
710	4641316	1	VALVE, CHECK	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. ATTACHMENT TILT AND SLAVE



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. ATTACHMENT TILT AND SLAVE

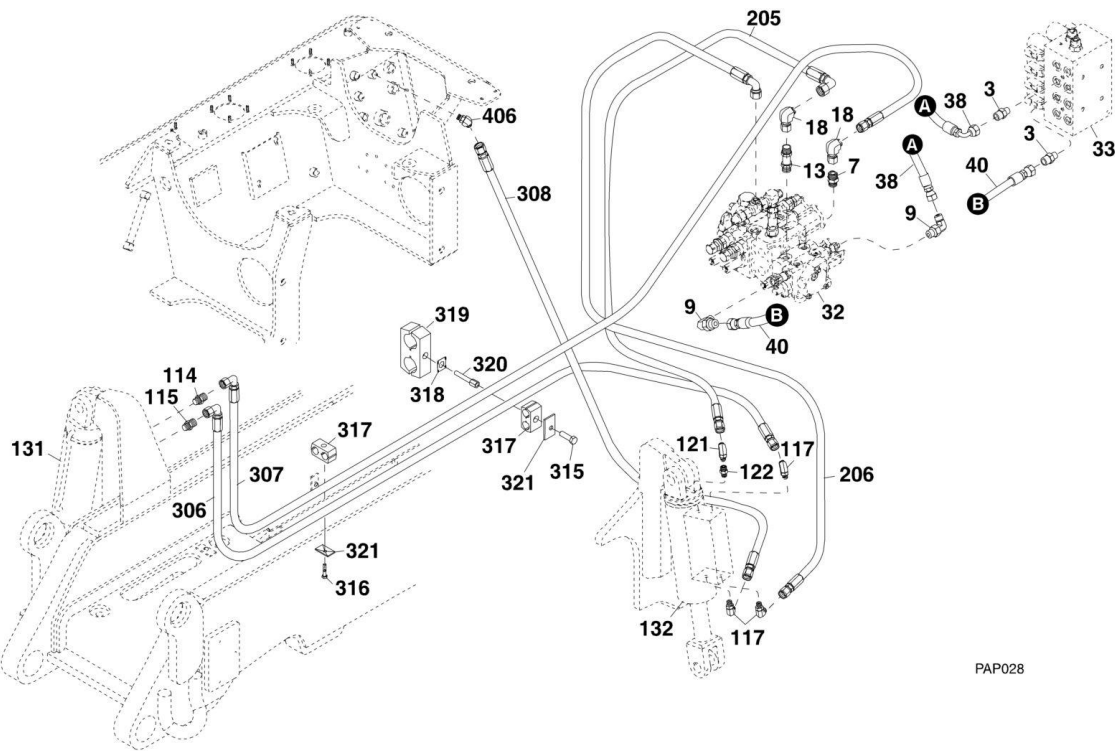
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101714	Ref	HYDRAULIC, FRAME COMPONENTS INSTALLATION, (not available to order, see items 4 thru 25 for service)	F
4	2716628	1	HOSE ASSY	
5	2716629	1	HOSE ASSY	
6	2716634	1	HOSE ASSY	
7	2170208	1	ELBOW, 90	
13	8770167	4	BULKHEAD RUN TEE	
23	2130808	3	ELBOW, 90	
24	2172108	3	SWIVEL ELBOW, 90	
25	2170908	2	CAP, SAE 8	
	1001101716	Ref	CYLINDER PLUMBING INSTALLATION, (not available to order, see items 101 thru 122 for service)	C
101	6623569	1	TUBE ASSY	
102	6623570	1	TUBE ASSY	
104	2716534	1	HOSE ASSY	
105	2716535	1	HOSE ASSY	
110	2716869	1	HOSE ASSY	
111	2716870	1	HOSE ASSY	
116	8303715	1	HEX HD CAPSCREW, 5/16-18X1-1/2	
121	8769123	1	COVER PLATE	
122	8769126	1	CLAMP SET, .50 DIA	
207	2716825	2	HOSE ASSY	
212	5724302	4	SHIM	
225	6623520	1	TUBE ASSY, (inside right)	
226	6623521	1	TUBE ASSY, (outside right)	
227	6623525	1	TUBE ASSY, (inner)	
228	6623526	1	TUBE ASSY, (outer)	
275	8303715	2	HEX HD CAPSCREW, 5/16-18X1-1/2	
276	8303743	8	HEX HD CAPSCREW, 1/4-20X1-1/2	
285	8307004	1	LOCKWASHER, 5/16	
307	8310453	1	HEX NUT, 5/16-18	
315	8310568	1	NUTSERT	
333	8769122	1	CLAMP SET, .625 DIA	
334	8769123	3	COVER PLATE	
336	8769153	2	COVER PLATE	
337	8769154	2	CLAMP SET, 5/8	
338	8770075	4	BULKHEAD NUT	
341	10168743	1	SET SCREW, 5/16-18X2-1/5	
355		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
356		Ref	SLAVE CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
377	91083249	1	CLAMP SET, .675 DIA	
407	2110808	1	CONNECTOR	
413	2170108	1	CONNECTOR	
415	2170708	2	SWIVEL RUN TEE	
418	8770115	1	SWIVEL ELBOW, 90	
432		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
504	2716635	1	HOSE ASSY	
513	2716644	1	HOSE ASSY	

SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
514	2716645	1	HOSE ASSY	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-9. FRAME SWAY AND STABIL-TRAK



PAP028

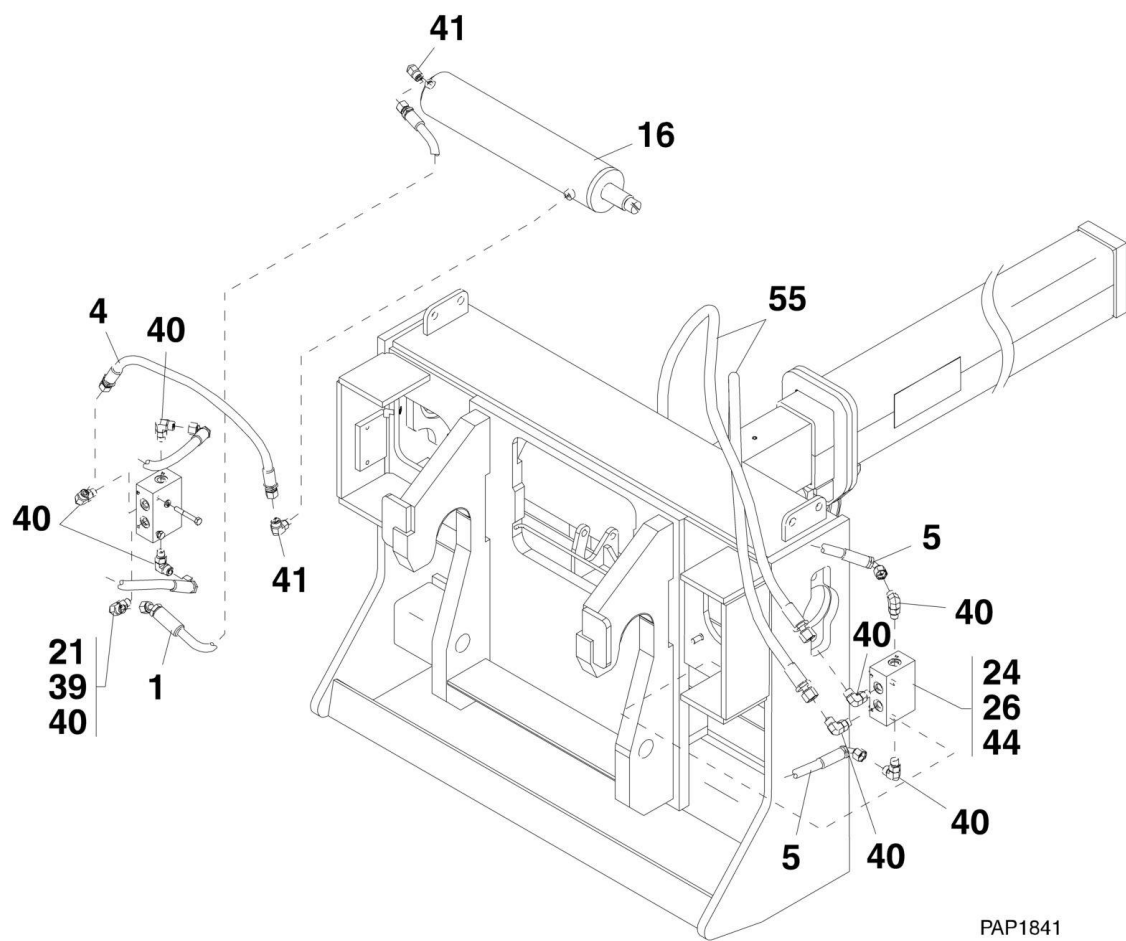
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-9. FRAME SWAY AND STABIL-TRAK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	2110404	2	CONNECTOR, SAE 4	
7	2110808	1	CONNECTOR	
9	2130406	2	ELBOW, 90, SAE 4-6	
13	2170108	1	CONNECTOR	
18	2172108	2	SWIVEL ELBOW, 90	
32		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
33		Ref	PILOT SELECT, MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
38	1001111380	1	HOSE ASSY	
40	1001111382	1	HOSE ASSY	
114	8902859	1	CONNECTOR SPECIAL W/CHECK VALVE, (yellow)	
115	8902860	1	CONNECTOR SPECIAL W/CHECK VALVE, (black)	
117	2130606	3	ELBOW, 90, SAE 6	
121	2172106	1	SWIVEL ELBOW, 90	
122	2110606	1	CONNECTOR, SAE 6	
131		Ref	FRAME SWAY CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
132		Ref	STABIL-TRAK CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
205	2716638	1	HOSE ASSY	
206	2716639	1	HOSE ASSY	
306	2716636	1	HOSE ASSY	
307	2716637	1	HOSE ASSY	
308	2716640	1	HOSE ASSY	
315	8303675	1	HEX HD CAPSCREW, 3/8-16X1-1/4	
316	8303715	1	HEX HD CAPSCREW, 5/16-18X1-1/2	
317	8750015	2	CLAMP SET, 0.67IN DIA	
318	8750017	1	LOCKING PLATE	
319	8750022	1	CLAMP SET, 1.26IN DIA	
320	8750026	1	STACKING BOLT	
321	8769123	2	COVER PLATE	
406	2150808	1	ELBOW, 45, SAE 8	

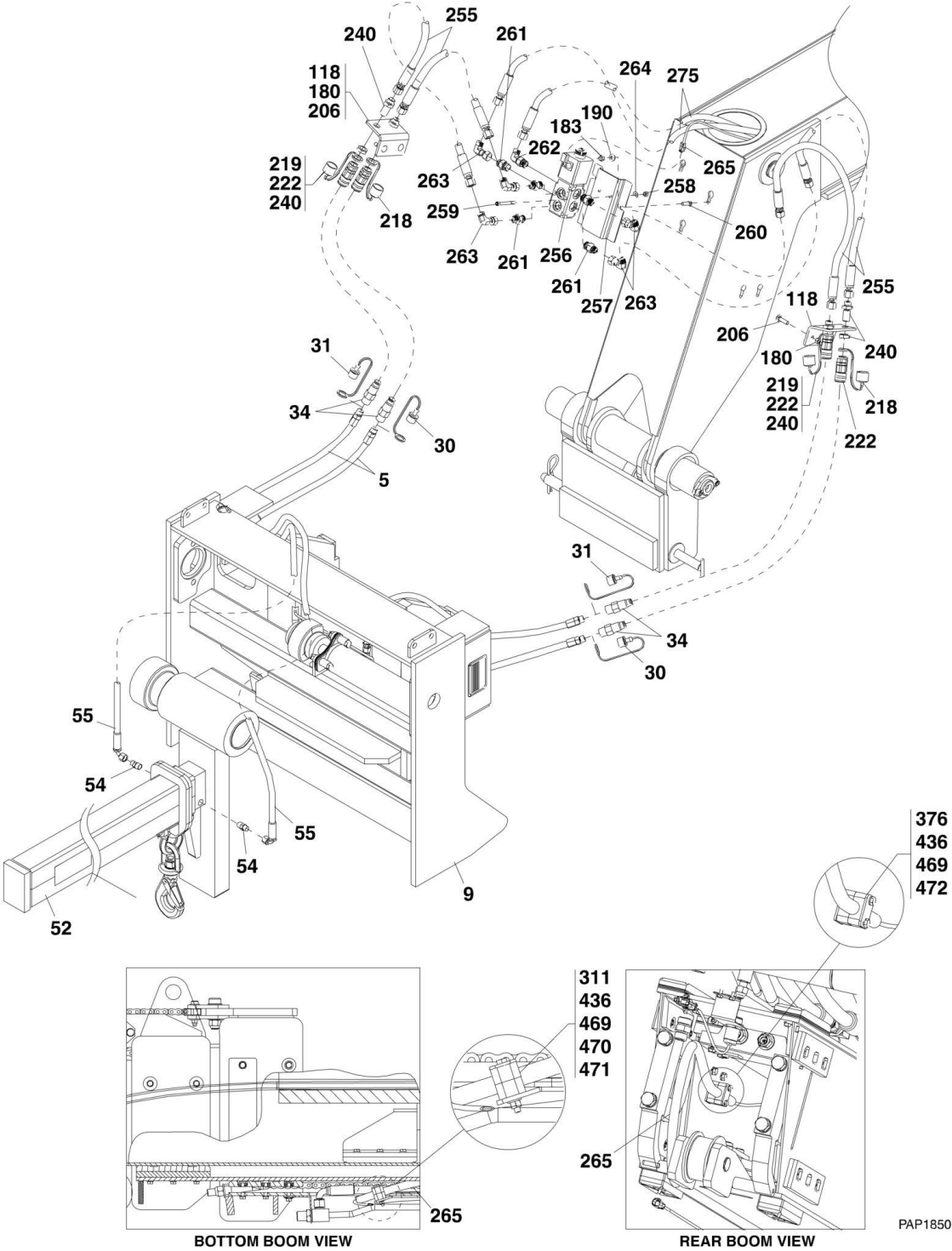
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. CARRIAGE WITH HYDRAULIC JIB



PAP1841

SECTION 8 - HYDRAULIC CIRCUITS



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. CARRIAGE WITH HYDRAULIC JIB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716810	1	HOSE ASSY	
4	2716811	1	HOSE ASSY	
5	2716809	4	HOSE ASSY	
9		Ref	CARRIAGE ASSY WITH HYDRAULIC JIB, (See ATTACHMENTS SECTION for Breakdown)	
16		Ref	SIDESHIFT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
21	7139960	1	ORIFICE DISK	
24	8303786	4	HEX HD CAPSCREW, 5/16-18X2-1/4	
26	8307004	4	LOCKWASHER, 5/16	
30	8430052	2	DUST CAP, RED #6, (male)	
31	8430054	2	DUST CAP, BLACK #6, (male)	
34	8430084	4	QUICK DISCONNECT NIPPLE	
39	8630003	1	O-RING	
40	2130606	8	ELBOW, 90, SAE 6	
41	2130604	2	ELBOW, 90, SAE 6-4	
44	8902283	2	DOUBLE PO CHECK VALVE	
52		Ref	HYDRAULIC JIB ATTACHMENT, (See ATTACHMENTS SECTION for Breakdown)	
54	2110606	2	CONNECTOR, (includes o-ring)	
55	1001115708	2	HOSE ASSY	
114		Ref	BOOM ASSY, (See BOOM SECTION for Breakdown)	
118	6623391	2	BULKHEAD BRACKET	
180	8305008	4	HEX NUT, 3/8-16	
183	8305645	2	HEX LOCKNUT, 3/8-16	
190	8307110	2	WASHER, 3/8	
206	8310335	4	CARRIAGE BOLT, 3/8-16X1-1/2, GR2	
218	8430051	2	DUST CAP, RED #6, (female)	
219	8430053	2	DUST CAP, BLACK #6, (female)	
222	8430083	4	QUICK DISCONNECT, FEMALE	
240	8770136	4	BULKHEAD, (straight thread)	
255	1001115735	4	HOSE ASSY	
256	1001104477	1	DIVERTOR VALVE	
256	70020764	1	COIL	
256	70021531	1	RETAINER KIT, (includes o-rings and nut)	
257	1001101990	1	VALVE BRACKET	
258	3271501	2	HEX NUT, 5/16-18, GR8	
259	3931548	2	SOCKET HD CAPSCREW, 5/16-18X3	
260	8310260	4	CARRIAGE BOLT, 3/8X1-1/4	
261	2110810	5	CONNECTOR, (includes o-ring)	
262	2130810	1	ELBOW, 90, (includes o-ring)	
263	2172108	5	ELBOW, 90, (includes o-ring)	
264	4711500	2	WASHER, 5/16	
265	1001115964	1	JIB BOOM CABLE	
275		Ref	HOSE ASSY, (See BOOM for Breakdown)	
311	4711400	2	WASHER, 1/4	
376	8303743	2	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5	
436	8769153	2	COVER PLATE	
469	8769152	2	CLAMP SET	
470	8305601	2	HEX LOCKNUT, 1/4-20	

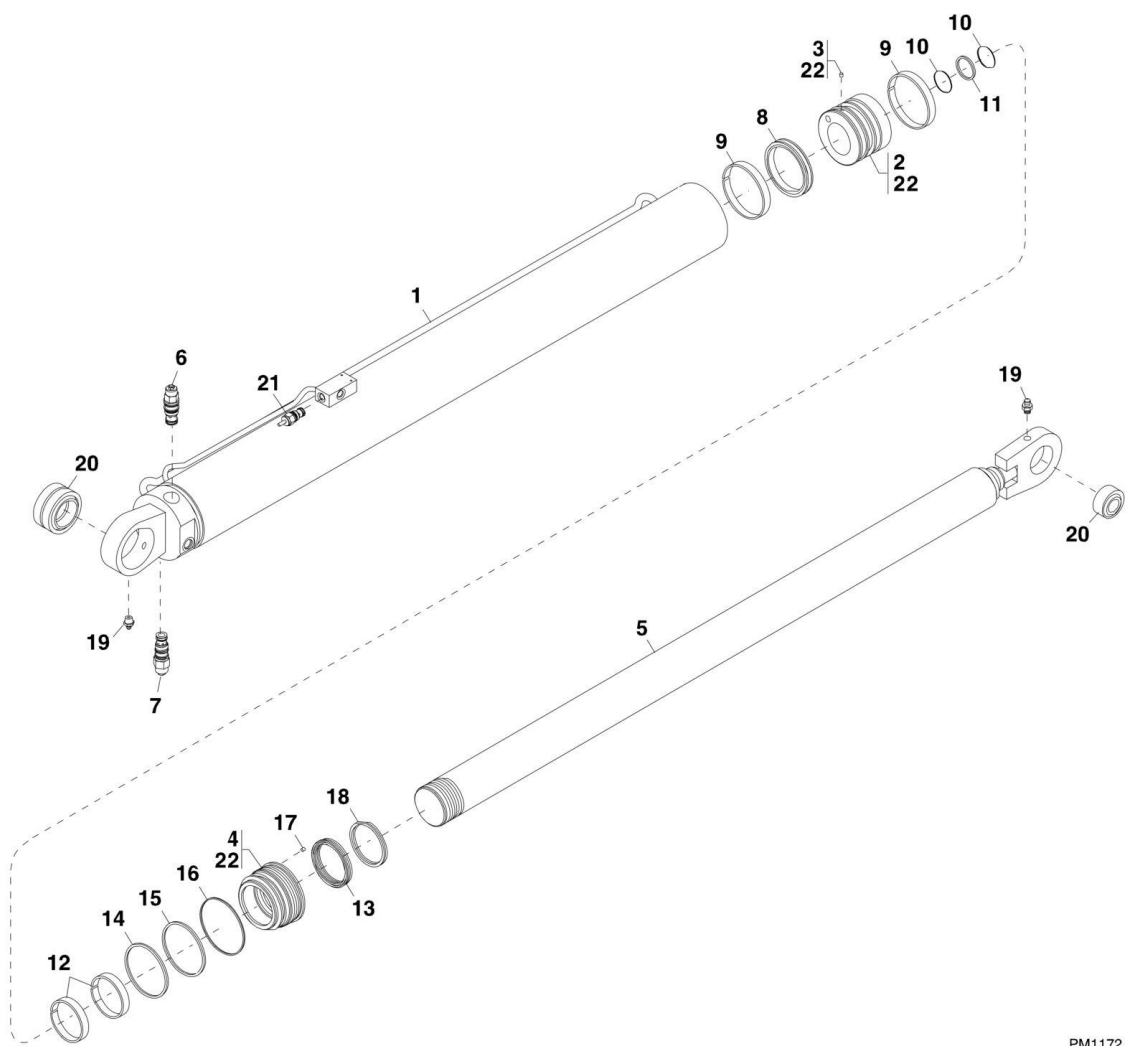
SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
471	8303114	2	HEX HD CAPSCREW, 1/4-20X2-1/4, GR5	
472	4761400	2	LOCKWASHER, 1/4	

SECTION 9 - HYDRAULIC COMPONENTS

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. LIFT/LOWER CYLINDER



PM1172

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. LIFT/LOWER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101467	1	LIFT/LOWER CYLINDER, (includes items 1 thru 20)	B
1	70029911	1	TUBE WELDMENT	
2	8036737	1	PISTON, (loctite and torque to 500-600 lb-ft)	
3	3951604	1	SETSCREW, (loctite and torque to 12-14 lb-ft)	
4	8036748	1	HEAD GLAND, (loctite and torque to 250-350 lb-ft)	
5	8036741	1	ROD	
6	70029914	1	COUNTERBALANCE VALVE, (torque to 45-50 lb-ft)	
7	8036229	1	PO CHECK VALVE, (torque to 45-50 lb-ft)	
8	Kit	1	CAPPED T-SEAL	
9	Kit	2	PRECISION WEARBAND	
10	Kit	2	BACK-UP RING	
11	Kit	1	O-RING	
12	Kit	2	PRECISION WEARBAND	
13	Kit	1	Z-SEAL, W/ROD BACK-UP	
14	Kit	1	O-RING	
15	Kit	1	BACK-UP RING	
16	Kit	1	O-RING	
17	3951406	1	SETSCREW	
18	70029912	1	ROD WIPER, SEALED O.D.	
19	8036749	2	LUBE FITTING	
20	8050072	2	SELF ALIGN BEARING	
21	70022387	1	DIRECTIONAL VALVE	
21	7024502	1	SEAL KIT	
22	8526011	AR	LOCTITE, #271, (apply to items 2 thru 4)	
	8036730	1	SEAL KIT, (includes items 3 & 8 thru 18)	

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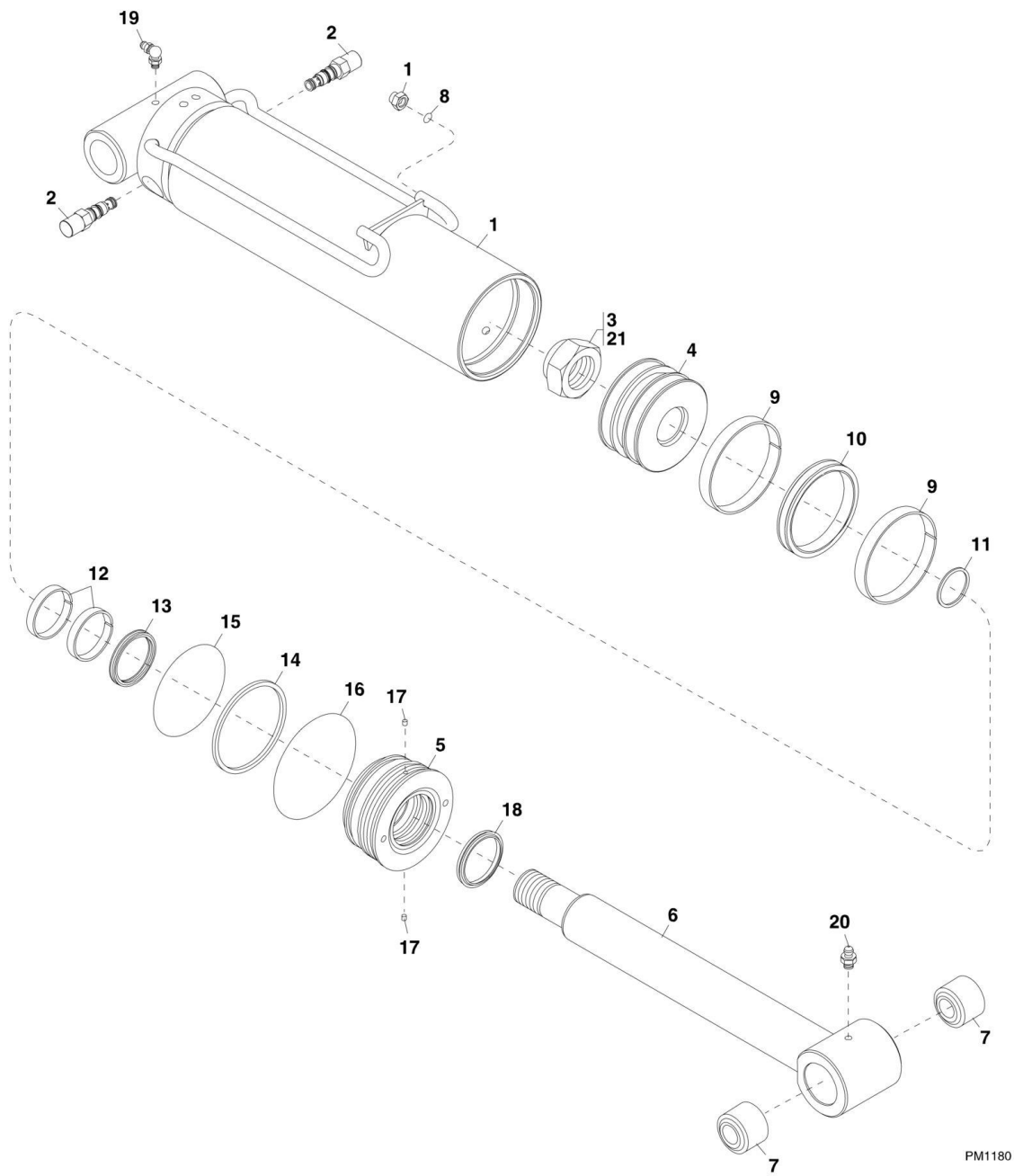
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. EXTEND/RETRACT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101468	1	EXTEND/RETRACT CYLINDER, (includes items 1 thru 23)	B
1	8036234	1	TUBE WELDMENT	
2	8036233	1	PISTON, (loctite and torque to 350-450 lb-ft)	
3	70022605	1	HEAD GLAND, (torque to 300-400 lb-ft)	
4	70022606	1	ROD SPACER	
5	70022607	1	ROD WELDMENT	
6	8036230	2	BUSHING	
7	8035769	1	SETSCREW, 5/16-18X3/4, (loctite and torque to 9-11 lb-ft)	
8	8036750	1	PO CHECK VALVE	
8	8036191	1	SEAL KIT	
9	8036590	1	COUNTERBALANCE VALVE, 4000 PSI (275,8 Bar), (torque to 45-50 lb-ft)	
9	8205656	1	SEAL KIT	
10	7029513	1	PO CHECK VALVE	
10	8205656	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	2	BACK-UP RING	
16	Kit	1	BACK-UP RING	
17	Kit	1	U-CUP	
18	Kit	1	TFE BUFFER SEAL	
19	Kit	1	PISTON SEAL	
20	Kit	1	ROD WIPER, SEALED O.D.	
21	Kit	2	PRECISION WEARBAND	
22	Kit	2	PRECISION WEARBAND	
23	Kit	2	LOCKING INSERT	
24	8526007	AR	LOCTITE, #242, (apply to item 7)	
25	8526011	AR	LOCTITE, #271, (apply to item 2)	
	70020310	1	SEAL KIT, (includes items 11 thru 23)	

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FIGURE 9-3. TILT CYLINDER



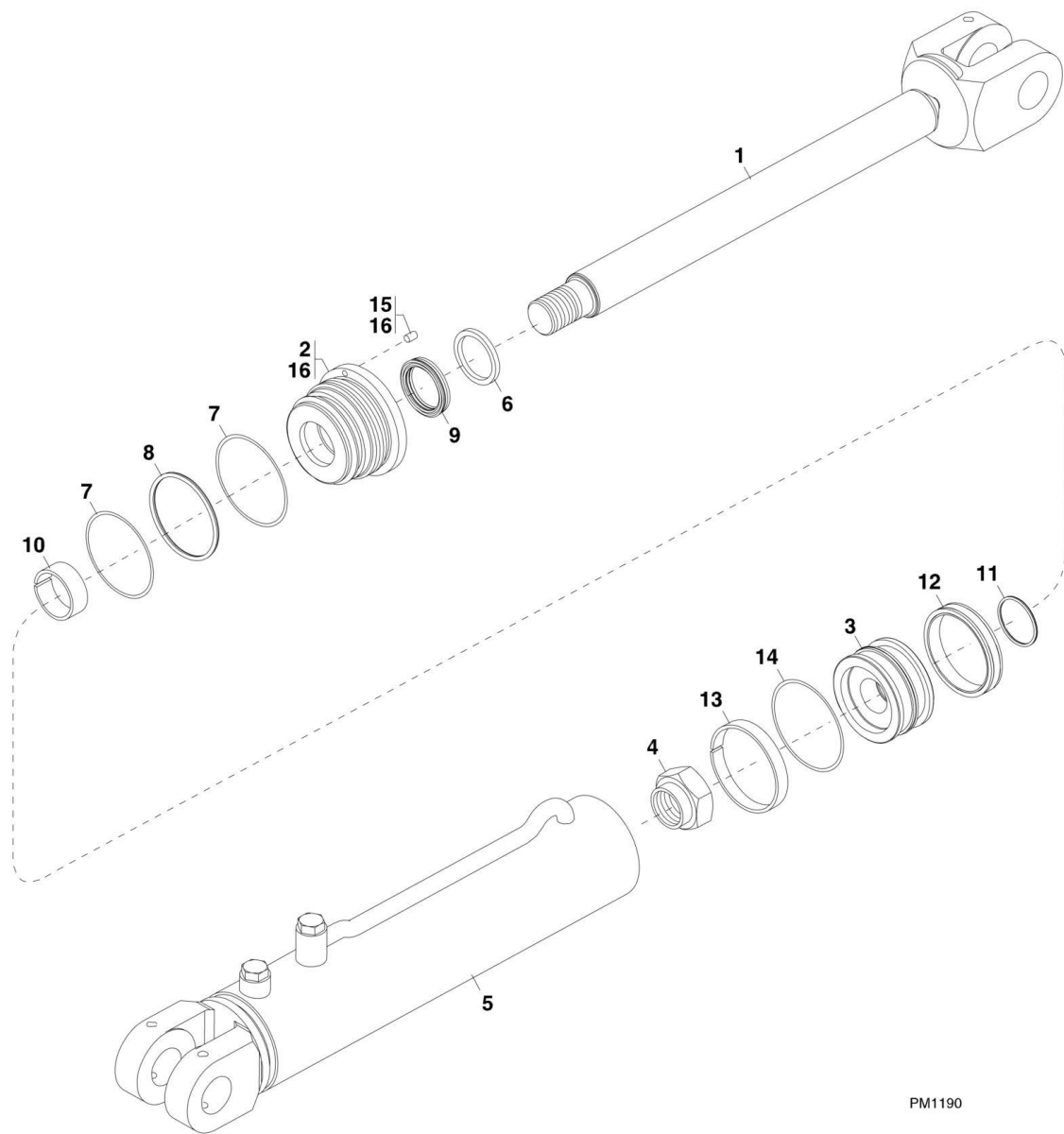
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-3. TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7138173	1	TILT CYLINDER, (includes items 1 thru 20)	AB
1		Ref	TUBE WELDMENT	
2	8035321	2	COUNTERBALANCE VALVE, 4000 PSI (275,8 Bar), (torque to 30-35 lb-ft)	
2		Ref	SEAL KIT	
3	8035308	1	LOCKNUT, 2-12, (loctite and torque to 2600-2900 lb-ft)	
4	8035309	1	PISTON	
5	8035553	1	HEAD GLAND, (torque to 300-400 lb-ft)	
6	8035552	1	WELDMENT ROD	
7	7089722	AR	BEARING (SOLID DIAMETER)	
7	70031092	AR	BEARING (SPRING TOOTH DESIGN)	
8	Kit	2	O-RING	
9	Kit	2	PRECISION WEARBAND	
10	Kit	1	CAPPED T-SEAL	
11	Kit	1	O-RING	
12	Kit	2	PRECISION WEARBAND	
13	Kit	1	DEEP Z-SEAL, W/ROD BACK-UP	
14	Kit	1	BACK-UP RING	
15	Kit	1	O-RING	
16	Kit	1	O-RING	
17	Kit	2	LOCKING INSERT	
18	Kit	1	ROD WIPER, SEALED O.D.	
19	8520021	1	LUBE FITTING, 90	
20	8520013	1	LUBE FITTING, STRAIGHT	
21	8526011	AR	LOCTITE, #271, (apply to item 3)	
	8035551	1	SEAL KIT, (includes items 8 thru 18)	

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FIGURE 9-4. SLAVE CYLINDER



PM1190

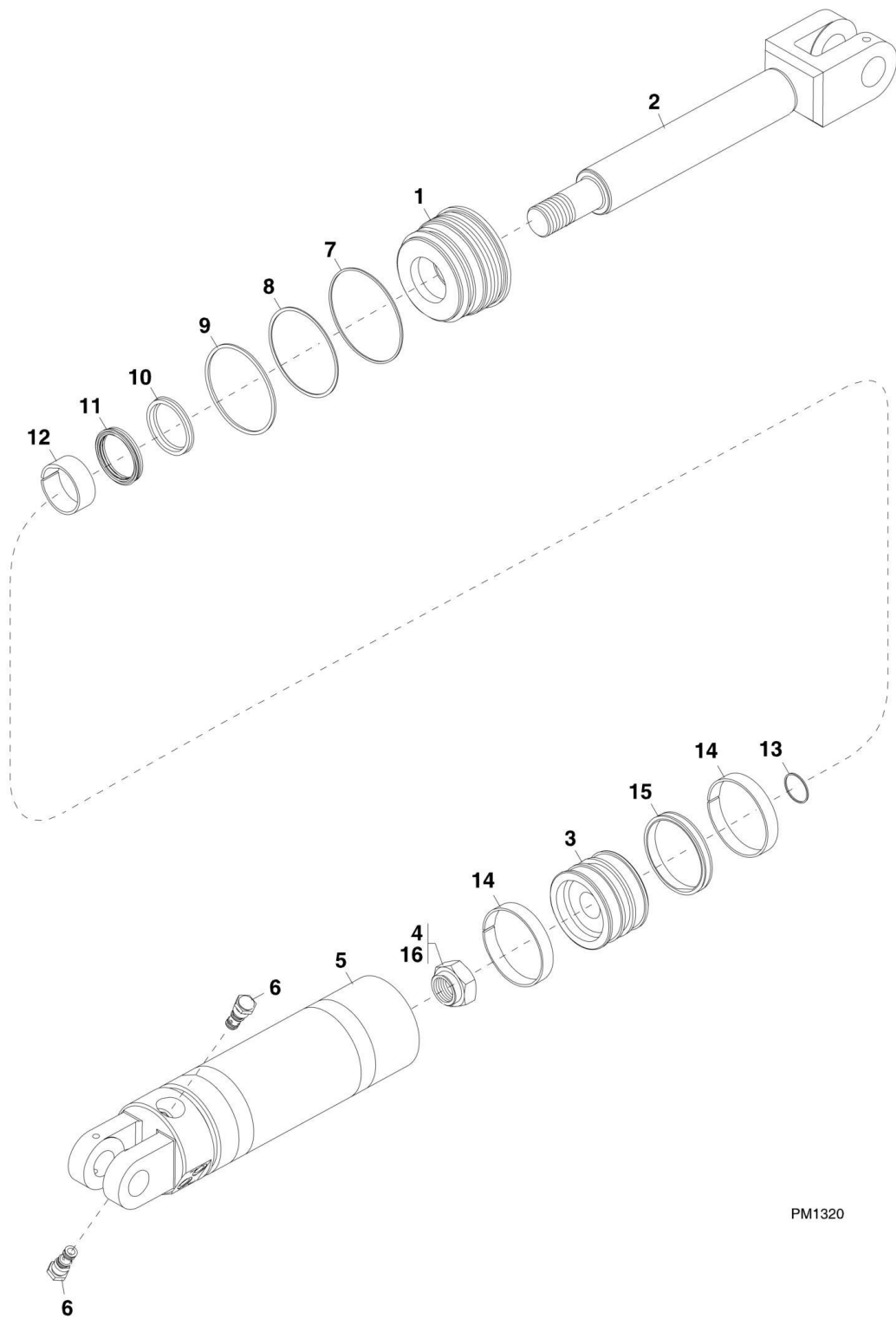
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-4. SLAVE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623849B	1	SLAVE CYLINDER, (includes items 1 thru 15)	AA
1	8036780	1	ROD	
2	8036781	1	HEAD GLAND, (loctite and torque to 250-350 lb-ft)	
3	8036779	1	PISTON	
4	8036778	1	LOCKNUT, 1-3/8-12, (torque to 520-565 lb-ft)	
5	Kit	1	TUBE WELDMENT	
6	Kit	1	ROD WIPER	
7	Kit	2	O-RING	
8	Kit	1	BACK-UP RING	
9	Kit	1	Z-SEAL, W/ROD BACK-UP	
10	Kit	1	PRECISION WEARBAND	
11	Kit	1	O-RING	
12	Kit	1	CAPPED T-SEAL	
13	Kit	1	PRECISION WEARBAND	
14	Kit	1	O-RING	
15	7017283	1	SETSCREW	
16	8526011	AR	LOCTITE, #271, (apply to item 2 & 15)	
	8036731	1	SEAL KIT, (includes items 5 thru 14)	

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FIGURE 9-5. FRAME TILT CYLINDER



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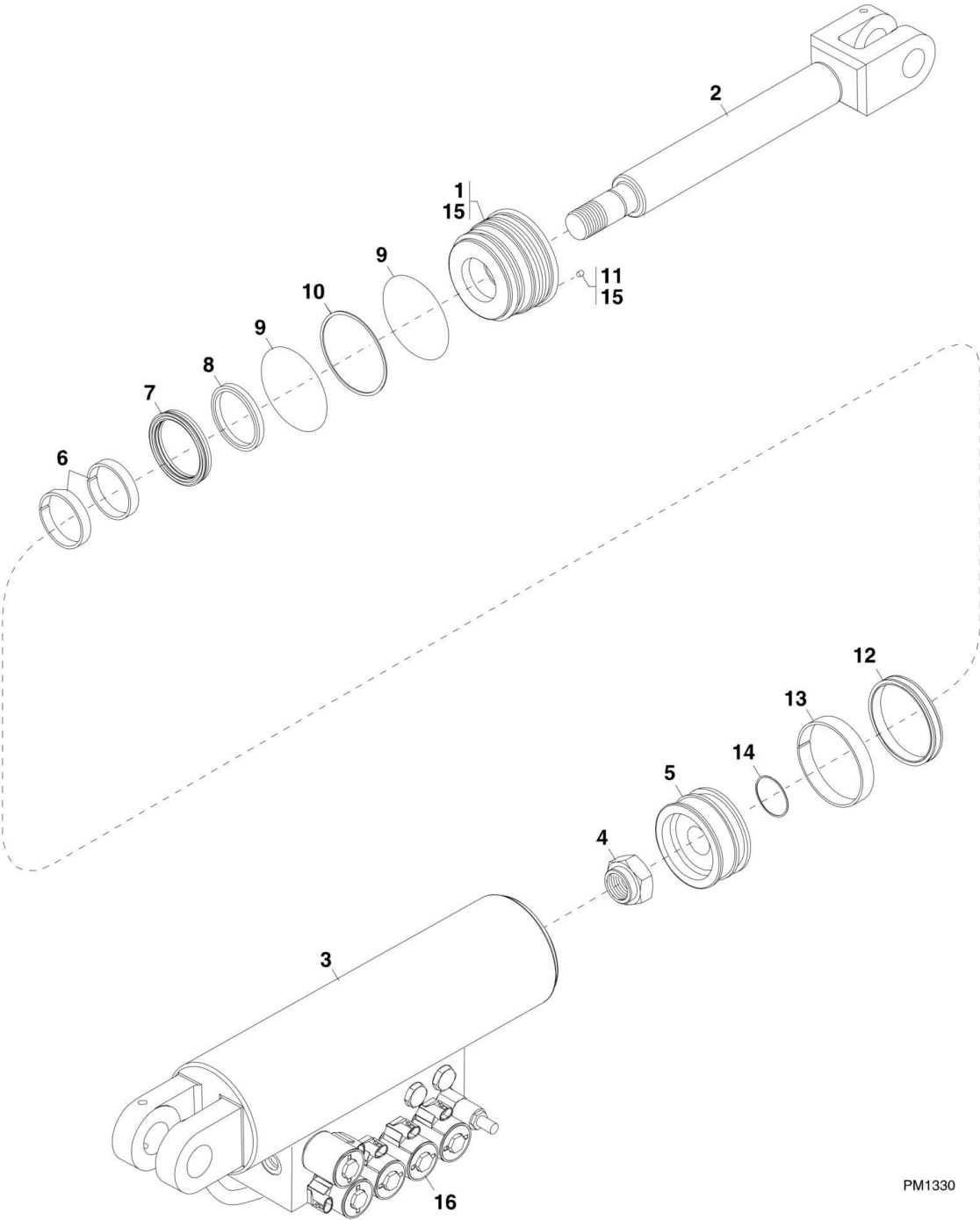
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-5. FRAME TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623867B	Ref	FRAME TILT CYLINDER, (includes items 1 thru 15)	B
1	8036771	1	HEAD GLAND, (torque to 300-400 lb-ft)	
2	8036770	1	ROD WELDMENT	
3	8036772	1	PISTON	
4	8036769	1	NUT, (loctite and torque to 1100-1250 lb-ft)	
5		Ref	TUBE WELDMENT	
6	8035757	2	PO CHECK VALVE, SERIES 10, (torque to 35-40 lb-ft)	
6	8036739	2	SEAL KIT	
7	Kit	1	O-RING	
8	Kit	1	BACK-UP RING	
9	Kit	1	O-RING,	
10	Kit	1	ROD WIPER, SEALED O.D.	
11	Kit	1	Z-SEAL, W/ROD BACK-UP	
12	Kit	1	PRECISION WEARBAND	
13	Kit	1	O-RING	
14	Kit	2	PRECISION WEARBAND	
15	Kit	1	CAPPED T-SEAL, TYPE 730	
16	8526011	AR	LOCTITE, #271, (apply to item 4)	
	8035326	1	SEAL KIT, (includes items 7 thru 15)	

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FIGURE 9-6. STABIL-TRAK CYLINDER



PM1330

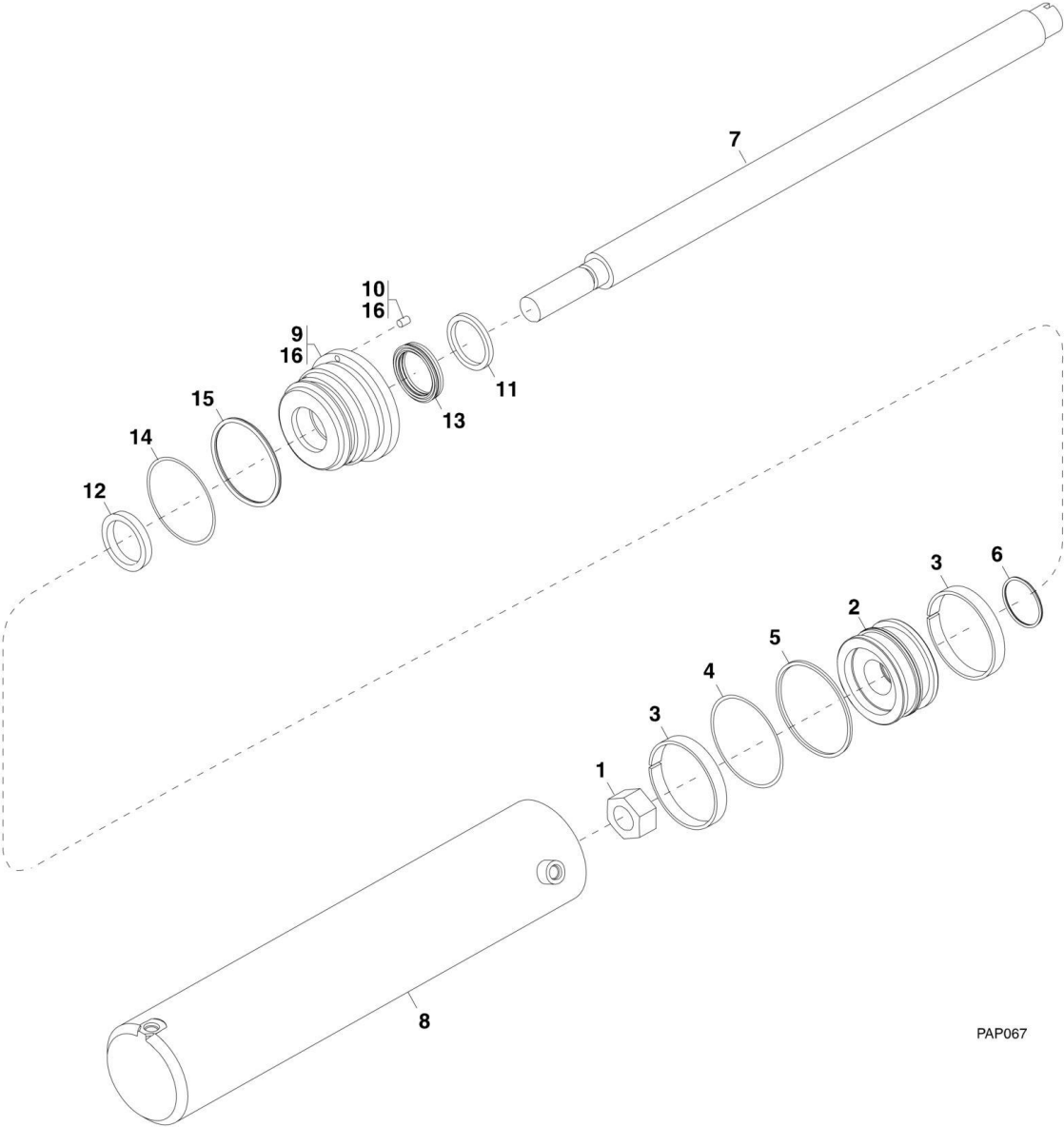
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-6. STABIL-TRAK CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623850B	1	STABIL-TRAK CYLINDER, (includes items 1 thru 14)	AA
1	8036828	1	HEAD GLAND, (loctite and torque to 250-350 lb-ft)	
2	8036827	1	ROD WELDMENT	
3		Ref	TUBE WELDMENT	
4	8036825	1	LOCKNUT, 1-1/2-12, GRC	
5	8036826	1	PISTON	
6	Kit	2	PRECISION WEARBAND	
7	Kit	1	Z-SEAL	
8	Kit	1	WIPER RING	
9	Kit	2	O-RING	
10	Kit	1	BACK-UP RING	
11	8036811	1	SET SCREW, 1/4-20X3/8, (loctite and torque to 3-4 lb-ft)	
12	Kit	1	CAPPED PISTON T-SEAL	
13	Kit	1	PRECISION WEARBAND	
14	Kit	1	O-RING	
15	8526011	AR	LOCTITE, #271, (apply to items 1 & 11)	
16		Ref	STABIL-TRAK VALVE, (See STABIL-TRAK VALVE for Breakdown)	
	8036747	1	SEAL KIT, (includes items 6 thru 14)	

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FIGURE 9-7. FORK SIDESHIFT CYLINDER - 11K



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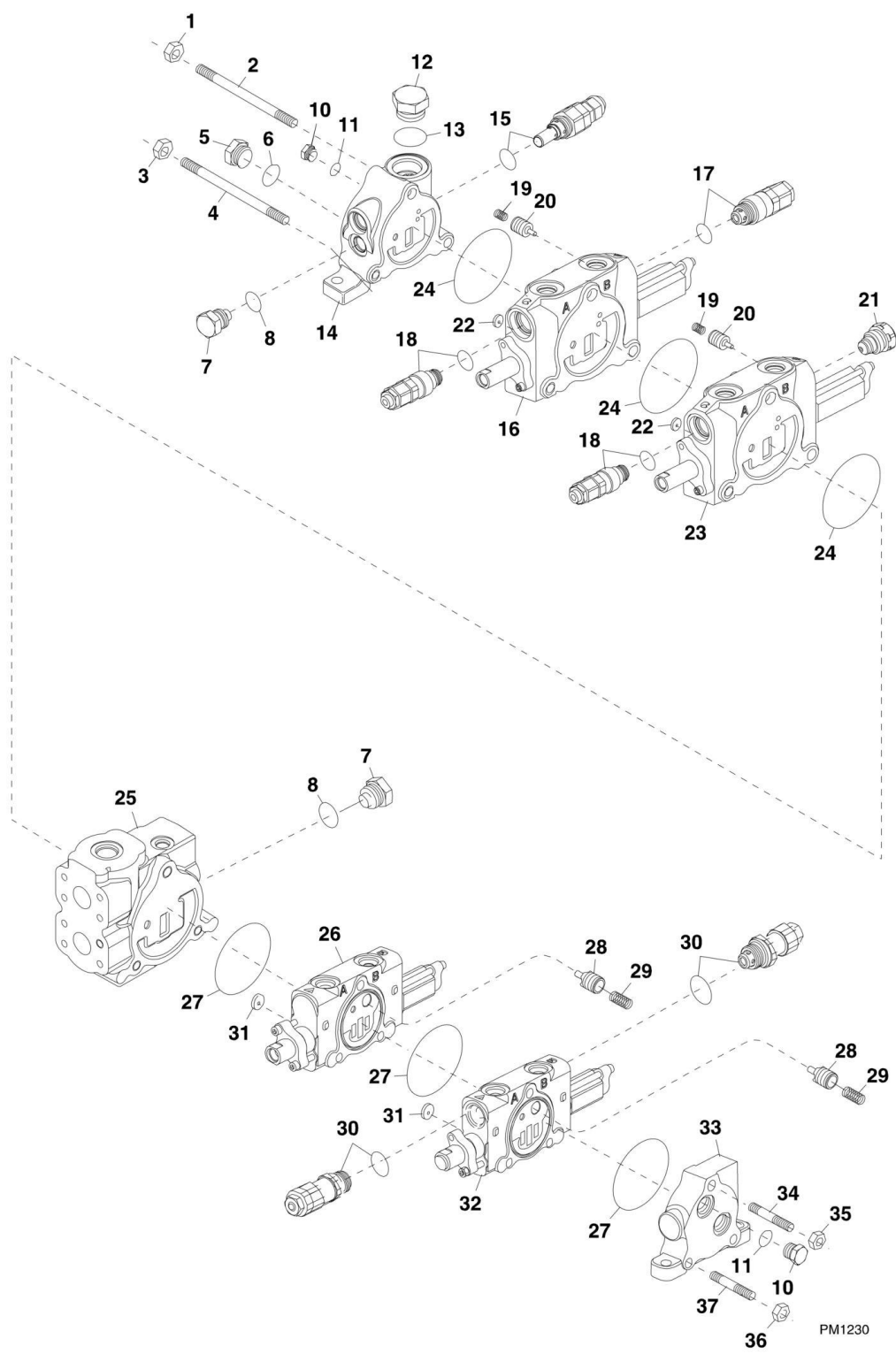
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-7. FORK SIDESHIFT CYLINDER - 11K

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001102693	1	CYLINDER, 11K FORK SIDESHIFT, (includes all items)	C
1	7001626	1	LOCKNUT, 7/8-14, (torque to 150-180 lb-ft)	
2	70022644	1	PISTON	
3	Kit	2	PRECISION WEARBAND	
4	Kit	1	O-RING	
5	Kit	1	PISTON RING	
6	Kit	1	O-RING	
7	70029909	1	ROD WELDMENT	
8	70029910	1	TUBE WELDMENT	
9	70022648	1	HEAD GLAND, (loctite and torque to 100-150 lb-ft)	
10	7017283	1	SET SCREW, 1/4-20X3/8	
11	70022649	1	O-RING	
12	Kit	1	SEAL	
13	Kit	1	WIPER RING	
14	Kit	1	O-RING	
15	Kit	1	BACK-UP RING	
16	8526011	AR	LOCTITE, #271, (apply to items 9 & 10)	
	70022643	1	SEAL KIT, (includes items 3 thru 6 & 12 thru 15)	

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FIGURE 9-8. MAIN CONTROL VALVE



PM1230

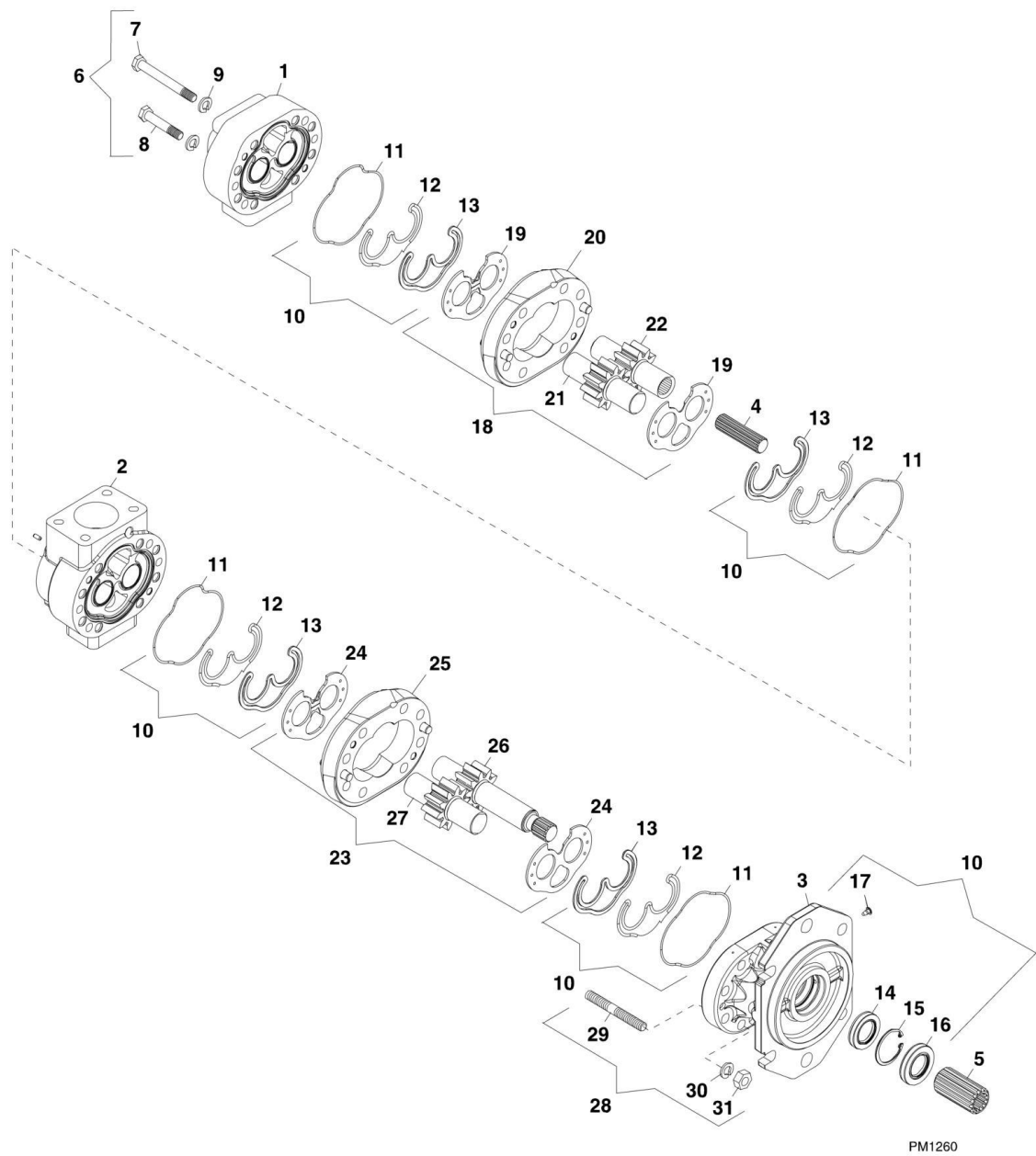
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-8. MAIN CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8902290	1	MAIN CONTROL VALVE ASSY, (includes all items)	AB
1	8035347	1	NUT	
2	8036282	1	TIE ROD	
3	8035381	2	NUT	
4	8036281	2	TIE ROD	
5	8035836	1	PLUG	
6	Kit	1	O-RING	
7	8035834	2	PLUG	
8	Kit	2	O-RING	
10	8035843	2	PLUG	
11	Kit	2	O-RING	
12	8035835	1	PLUG	
13	Kit	1	O-RING	
14	8036263	1	OUTLET SECTION ASSY	
15	7029254	1	MAIN RELIEF VALVE ASSY, PRESET AT 3800 ±50 PSI	
16	8035850	1	BOOM EXTEND/RETRACT SECTION ASSY, (includes items 19, 20 & 24)	
16		Ref	SEAL KIT	
17	8036007	1	RELIEF VALVE ASSY, PRESET AT 3750 ± 50 PSI, (includes o-ring)	
17	8035856	1	SEAL KIT	
18	8035839	2	RELIEF VALVE ASSY, PRESET AT 3000 ± 50 PSI, (includes o-ring)	
18	8035856	1	SEAL KIT	
19	8035358	2	SPRING	
20	8035367	2	POPPET	
21	8035363	1	ANTI-VOID ASSY	
22	8035845	2	SHUTTLE	
23	8035850	1	BOOM LIFT/LOWER SECTION ASSY, (includes items 19, 20 & 24)	
24	8036284	3	O-RING	
25	8035849	1	MID-INLET SECTION ASSY	
26	8035846	1	FRAME SWAY AND STABIL-TRAK SECTION ASSY, (includes items 27, 28 & 29)	
27	8036260	3	O-RING	
28	8035366	2	POPPET	
29	8035365	2	SPRING	
30	8035840	2	RELIEF VALVE ASSY, PRESET AT 4000 ± 50 PSI	
31	91474321	2	SHUTTLE	
31		Ref	SEAL KIT	
32	8035847	1	ATTACHMENT TILT AND SLAVE SECTION ASSY, (includes items 27, 28 & 29)	
33	8035345	1	OUTLET SECTION ASSY	
34	8036291	1	TIE ROD	
35	8035346	1	NUT	
36	8035348	2	NUT	
37	8036292	2	TIE ROD	
	8036285	1	SEAL KIT, (includes items 6, 8, 11, 13, 24 & 27)	

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FIGURE 9-9. GEAR PUMP



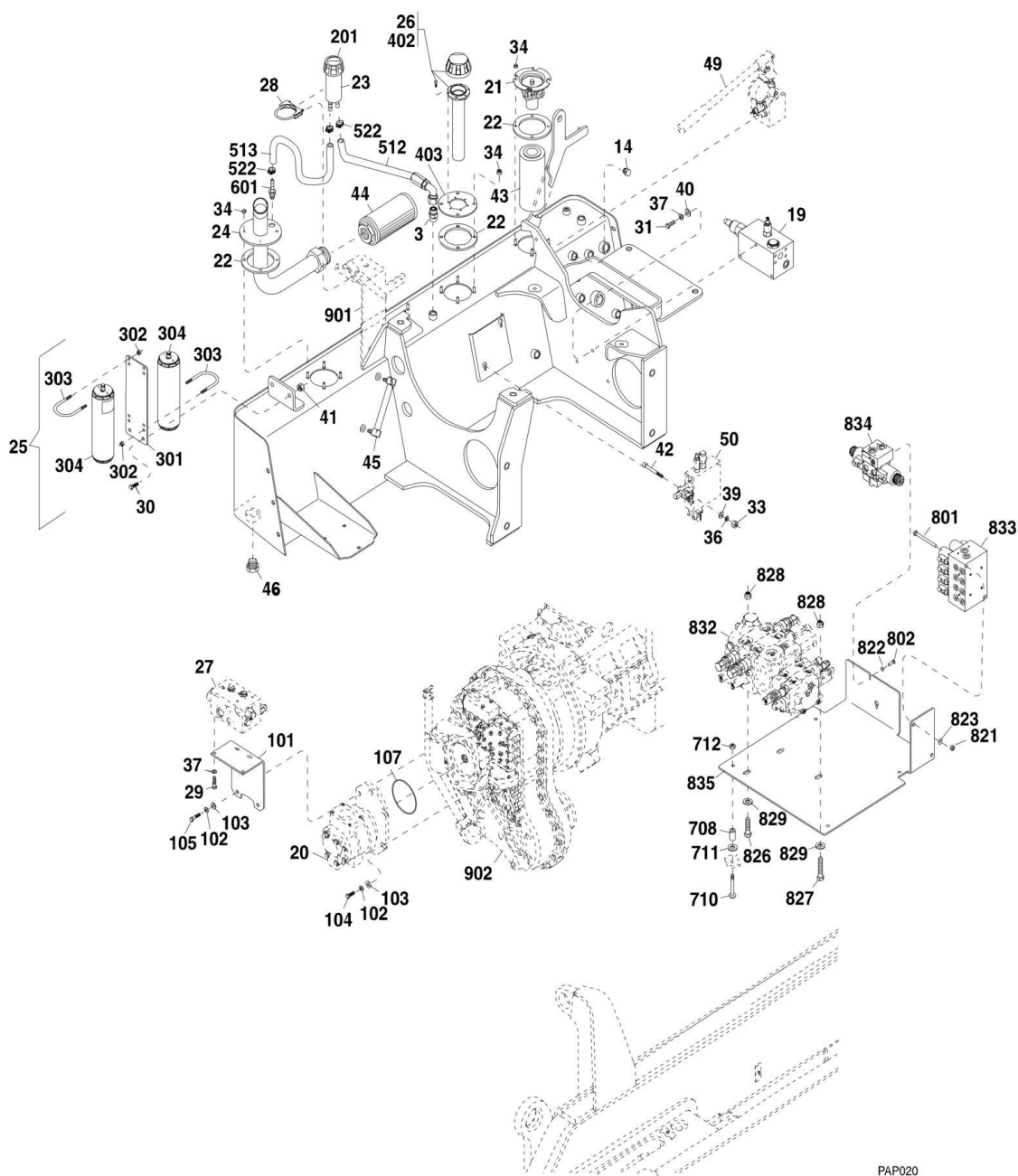
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. GEAR PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8440236	1	GEAR PUMP ASSY, (includes all items)	AB
1		Ref	REAR COVER	
2		Ref	PORT SECTION	
3		Ref	FRONT COVER, "C" MOUNT	
4	8036485	1	COUPLING	
5	8036486	1	COUPLING, "C" SPLINE	
6	8036480	1	BOLT KIT, (includes items 7, 8 & 9)	
7	Kit	4	BOLT, 7/16-14X4	
8	Kit	4	BOLT, 7/16-14X2-3/4	
9	Kit	8	LOCKWASHER, 7/16	
10	8036481	1	SEAL KIT, (includes items 11 thru 17)	
11	Kit	4	O-RING	
12	Kit	4	E-RING	
13	Kit	4	RETAINING RING	
14	Kit	1	INNER SHAFT SEAL	
15	Kit	1	SNAP RING	
16	Kit	1	OUTER SHAFT SEAL	
17	Kit	1	WEEP HOLE PLUG	
18	8036482	1	REAR SECTION KIT, (includes items 19 thru 22)	
19	Kit	2	WEAR PLATE	
20	Kit	1	CENTER SECTION	
21	Kit	1	DRIVEN GEAR	
22	Kit	1	REAR DRIVE GEAR	
23	8036483	1	FRONT SECTION KIT, (includes items 24 thru 27)	
24	Kit	2	WEAR PLATE	
25	Kit	1	CENTER SECTION	
26	Kit	1	DRIVEN GEAR	
27	Kit	1	DRIVE GEAR, "B" SPLINE	
28	8036484	1	FRONT STUD KIT, (includes items 29 thru 31)	
29	Kit	8	STUD, 7/16X3.51	
30	Kit	8	LOCKWASHER, 7/16	
31	Kit	8	NUT, 7/16-20X3/8	

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FIGURE 9-10. HYDRAULIC TANK ASSEMBLY



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SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-10. HYDRAULIC TANK ASSEMBLY

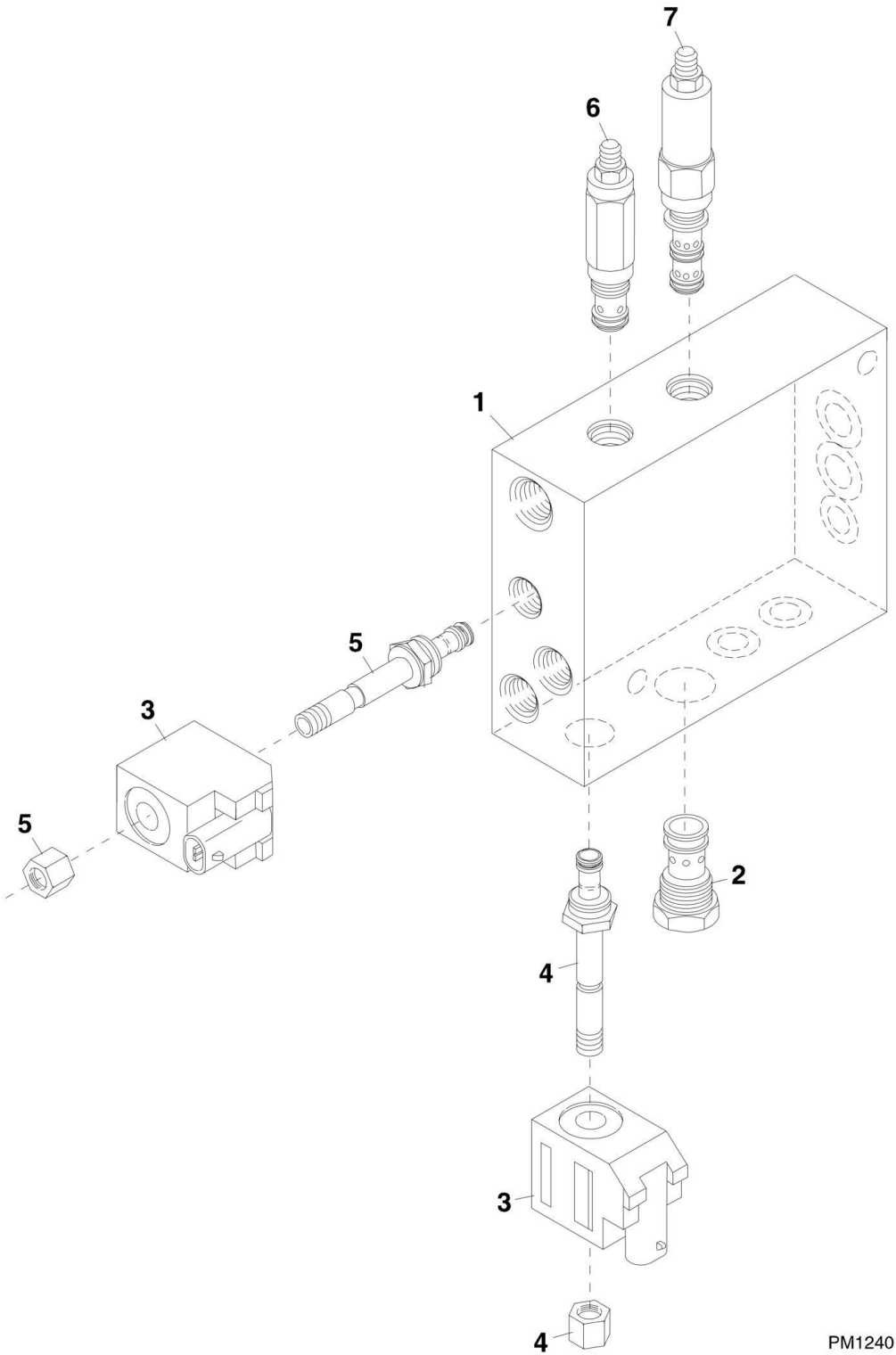
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001102399	Ref	ENGINE POD, VALVE INSTALLATION, (includes items 3 thru 50)	C
3	2110808	1	STRAIGHT ADAPTER, 8-8	
14	2220238	1	PLUG, 3/4-16, SAE 8	
19		Ref	UNLOADER VALVE, (See UNLOADER VALVE for Breakdown)	
20	6623913	Ref	GEAR PUMP, (includes items 101 thru 107)	B
21	1001091752	1	FILTER HEAD	
22	7138209	3	GASKET	
23	7139980	1	BREATHER ASSY, (includes item 201)	
24	7139984	1	TUBE WELDMENT ASSY	
25	7300207	1	ACCUMULATOR MOUNT, ASSEMBLY, (includes items 301 thru 304)	D
26	7300487	1	FILL NECK ASSY, (includes items 402 & 403)	
27		Ref	ACCUMULATOR CHARGE VALVE, (See ACCUMULATOR CHARGE VALVE for Breakdown)	
28	8275212	1	MUFFLER CLAMP, 2-1/2 U TYPE	
29	8303620	4	HEX HD CAPSCREW, 3/8-16X1	
30	8303626	2	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
31	8303675	3	HEX HD CAPSCREW, 3/8-16X1-1/4	
33	8305006	2	HEX NUT, 5/16-18	
34	8305626	12	LOCKNUT, 5/16-18	
36	8307004	2	LOCKWASHER, 5/16	
37	8307005	7	LOCKWASHER, 3/8	
39	8307203	2	WASHER, 5/16	
40	8307204	3	WASHER, 3/8	
41	8310302	2	HEX NUT, 1/2-13, GR5	
42	8310393	2	CARRIAGE BOLT, 5/16-18X2-3/4	
43	8320265	1	HYDRAULIC OIL ELEMENT FILTER	
44	8324029	1	STRAINER	
45	8464013	1	SIGHT GAUGE	
46	8770001	1	PLUG, 1.875-12 THD	
49		Ref	HYDRAULIC HAND PUMP, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
50		Ref	SECONDARY FUNCTION MANIFOLD, (See SECONDARY FUNCTION MANIFOLD for Breakdown)	
101	7300206	1	ACCUMULATOR CHARGE BRACKET	
102	8307025	4	LOCKWASHER, M12	
103	8307220	4	WASHER, M12	
104	8310154	2	HEX HD CAPSCREW, M12-1.75X40MM	
105	8310594	2	HEX HD CAPSCREW, M12-1.75X50MM	
107	8630019	1	O-RING	
201	8036387	1	BREATHER CAP ASSY	
301	7300205	1	ACCUMULATOR MOUNT	
302	8305645	8	LOCKNUT, 3/8-16	
303	8310586	4	U-BOLT, 3/8-16X4-1/8	
304	8742008	2	HYDRAULIC ACCUMULATOR, 1 LITER	
402	7300479	1	FILL NECK ASSY	
403	0080268	1	FILL NECK PLATE ADAPTER	
512	2717263	1	HOSE ASSY	
513	2716854	1	SPECIAL HOSE, (includes item 601)	
522	8410009	3	GEAR CLAMP	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
601	8430096	1	COUPLING, HOSE BARB #6-6P	
708	7116691	4	SPACER	
710	8310281	4	CARRIAGE BOLT, 3/8-16X2-1/4	
711	8310308	4	WASHER, 1/2	
712	8310522	2	FLANGE NUT, 3/8- 6NC	
801	0681527	2	HEX HD CAPSCREW, 5/16-18X3-1/2	
802	0760610	2	HEX HD CAPSCREW, M6X20	
821	3271501	2	NUT, 5/16-18	
822	4711000	2	WASHER, #10	
823	4711500	2	WASHER, 5/16	
826	8303627	2	HEX HD CAPSCREW, 1/2-13X1-3/4	
827	8303693	1	HEX HD CAPSCREW, 1/2-13X2-1/2	
828	8305644	3	LOCKNUT, 1/2-13	
829	8307206	3	WASHER, 1/2	
832		Ref	MAIN CONTROL VALVE, (See MAIN CONTROL VALVE for Breakdown)	
833		Ref	PILOT SELECT MANIFOLD, (See PILOT SELECT MANIFOLD for Breakdown)	
834		Ref	LOAD SENSE, PROPORTIONAL CONTROL, (See SECONDARY FUNCTION MANIFOLD for Breakdown)	
835	1001105473	1	MAIN VALVE BRACKET	
901		Ref	FUEL LUBRICITY FILTER BRACKET, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
902		Ref	TRANSMISSION, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
	10268992	1	ACCUMULATOR FILL KIT	
	6624021	1	50 HOUR FILTER KIT, (includes engine oil filter, transmission filter AND hydraulic tank filter)	

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FIGURE 9-11. SECONDARY FUNCTION MANIFOLD



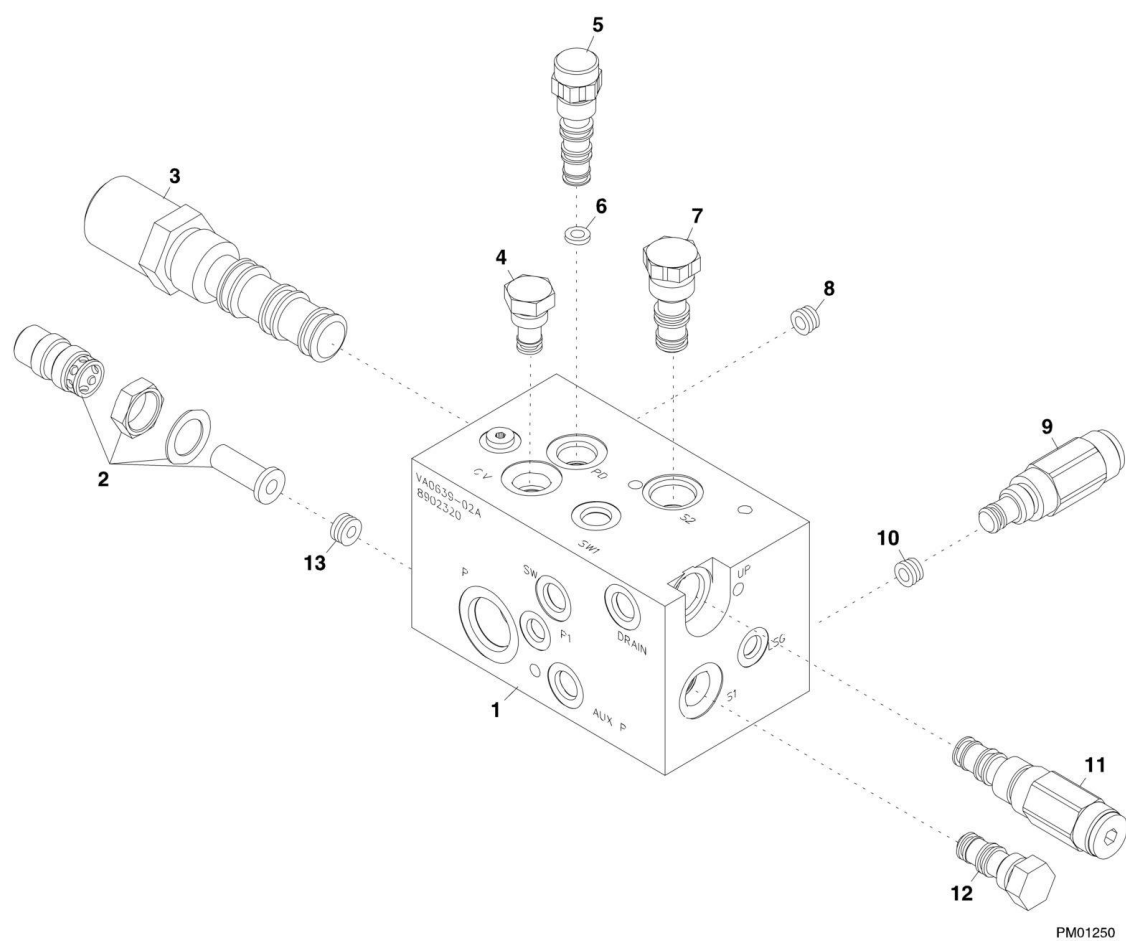
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-11. SECONDARY FUNCTION MANIFOLD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104310	1	SECONDARY FUNCTION MANIFOLD ASSY, (includes all items)	C
1	8902299	1	SECONDARY FUNCTION MANIFOLD	
2	8032995	1	CHECK VALVE, (torque to 25-30 lb-ft)	
2	8032992	1	SEAL KIT	
3	8902698	2	SOLENOID COIL, W/INTEGRATED DIODE, (torque to 25-30 lb-ft)	
4	8902696	1	CARTRIDGE, SOLENOID VALVE, (torque to 4-6 lb-ft)	
4	8032992	1	SEAL KIT	
5	8902697	1	CARTRIDGE, SOLENOID VALVE, (torque to 4-6 lb-ft)	
5	8032992	1	SEAL KIT	
6	8032991	1	RELIEF VALVE, PRESET AT 650 PSI (45 Bar), (torque to 25-30 lb-ft)	
6	8032994	1	SEAL KIT	
7	8032993	1	PRESSURE REDUCING VALVE, PRESET AT 550 PSI (38 Bar), (torque to 35-40 lb-ft)	
7	8032994	1	SEAL KIT	

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FIGURE 9-12. ACCUMULATOR CHARGE VALVE



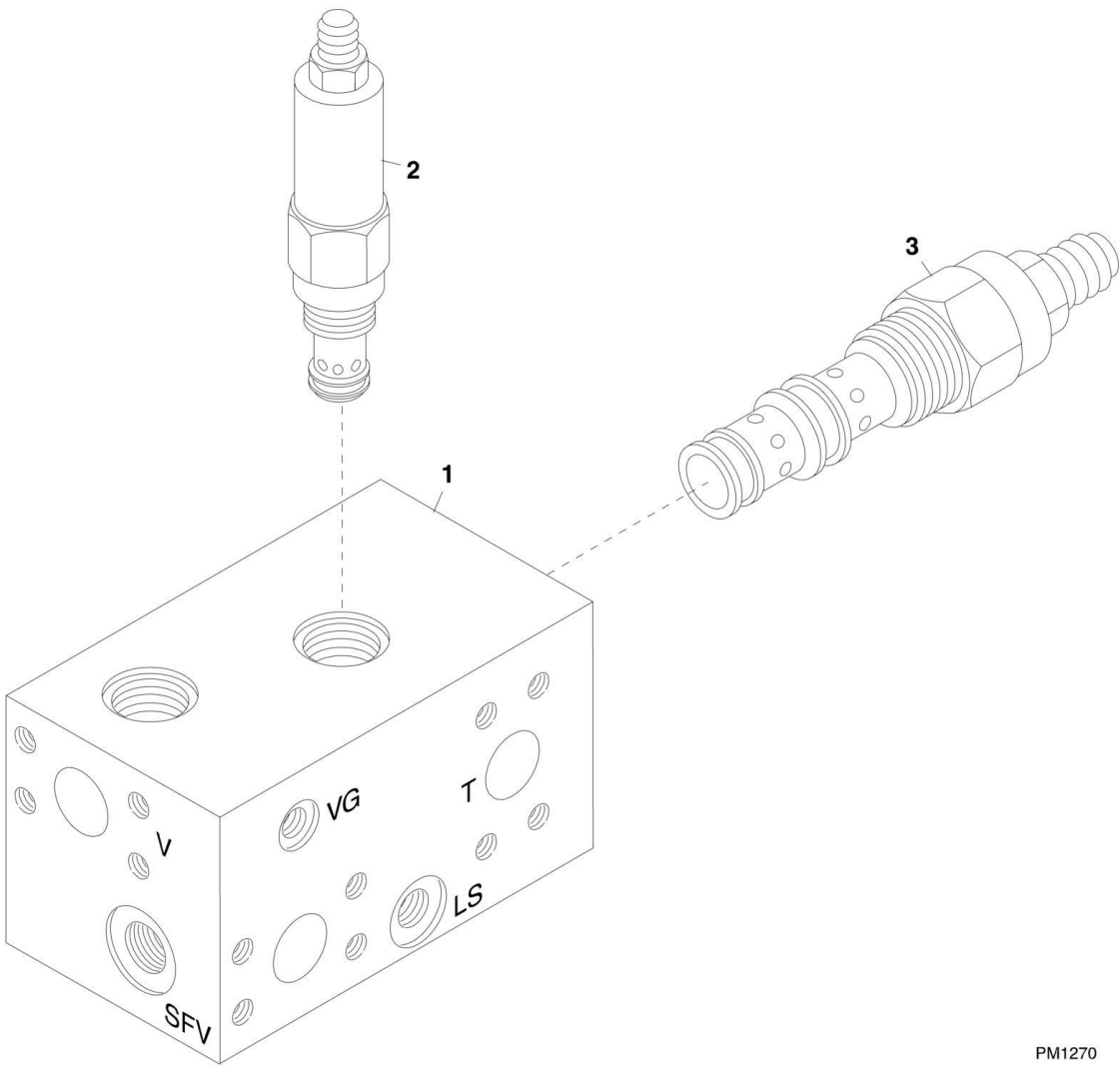
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-12. ACCUMULATOR CHARGE VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902320	1	ACCUMULATOR CHARGE VALVE, (includes all items)	AA
2	8036564	1	FILTER ASSY, (torque retainer to 20 lb-ft and nut to 28 lb-ft)	
2	8036491	1	SEAL KIT	
3	8036460	1	COMPENSATOR (EC)	
3	8036493	1	SEAL KIT	
4	7022391	1	CHECK VALVE, 4PSI (CV)	
4	10868086	1	SEAL KIT	
5	8036456	1	DIRECTIONAL, PILOT (PD)	
5	7017402	1	SEAL KIT	
6	8036457	1	ORIFICE DISC, .032 DIA (PD)	
7	8036568	1	SHUTTLE CARTRIDGE, INVERTED (S2)	
8	8036452	1	ORIFICE PLUG, 1/16 (.040) (PIL)	
9	8036788	1	RELIEF CARTRIDGE, DIRECT ACTING, 2300 PSI (RV)	
9	10868086	1	SEAL KIT	
10	8036453	1	ORIFICE PLUG, 1/16 (.032) (RV OR1)	
11	8036566	1	CHARGE LOGIC CARTRIDGE, 1050-1950 PSI (UP)	
11	8036567	1	SEAL KIT	
12	10837580	1	LOAD SHUTTLE VALVE, (S1)	
12	8036572	1	SEAL KIT	
13	8036789	1	ORIFICE PLUG, 1/16 (.052) (FILTER OR2)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. UNLOADER VALVE



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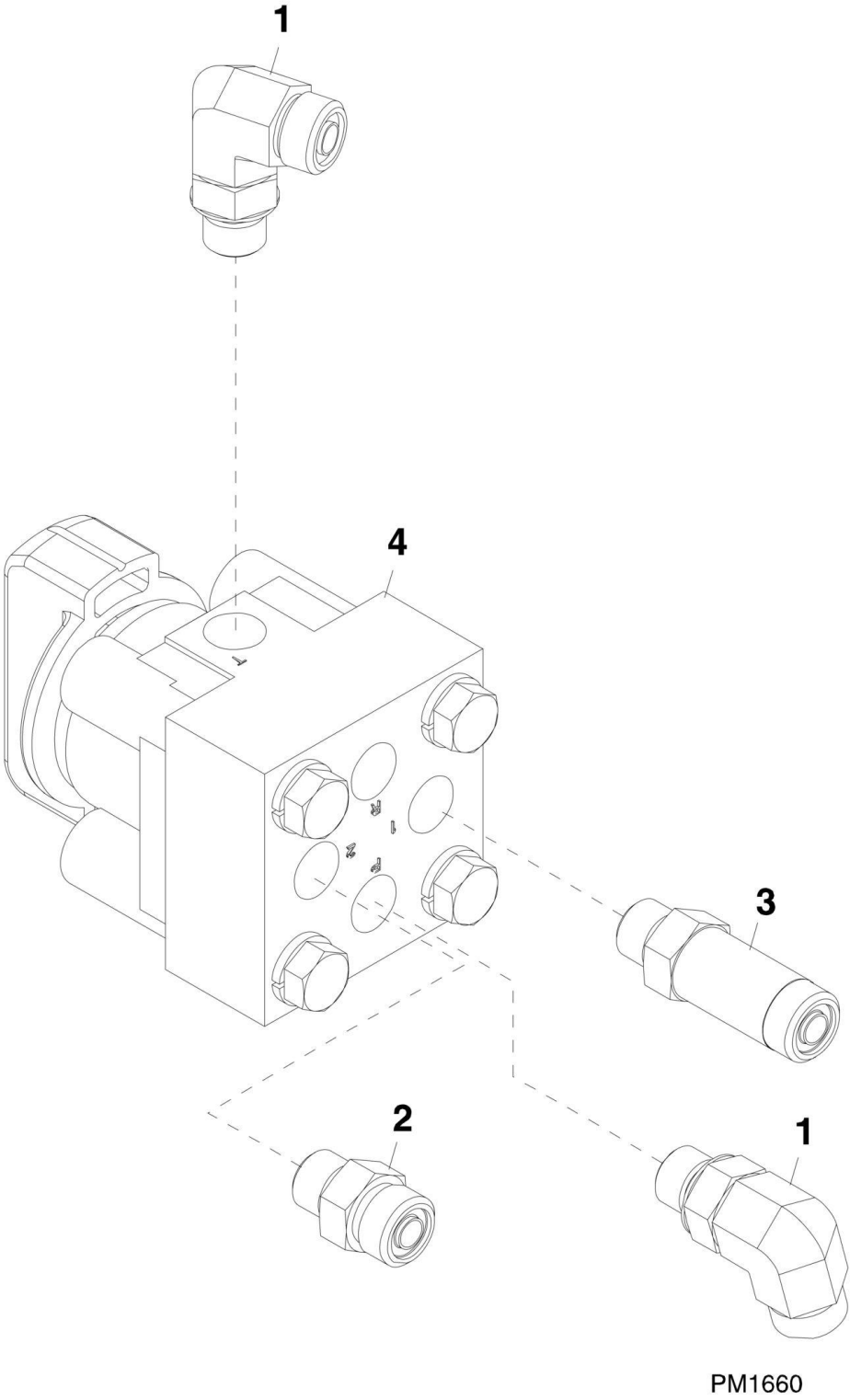
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. UNLOADER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902287	1	UNLOADER VALVE ASSY, (includes items 2 & 3)	AD
2	8036356	1	RELIEF VALVE, (3400-3500 PSI), (234-241 Bar), (torque to 35-40 lb-ft)	
2	8034037	1	SEAL KIT	
3	8035775	1	DIFFERENTIAL PRESSURE SENSE VALVE, (torque to 80-90 lb-ft)	
3	8036192	1	SEAL KIT	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. STEER SELECT VALVE



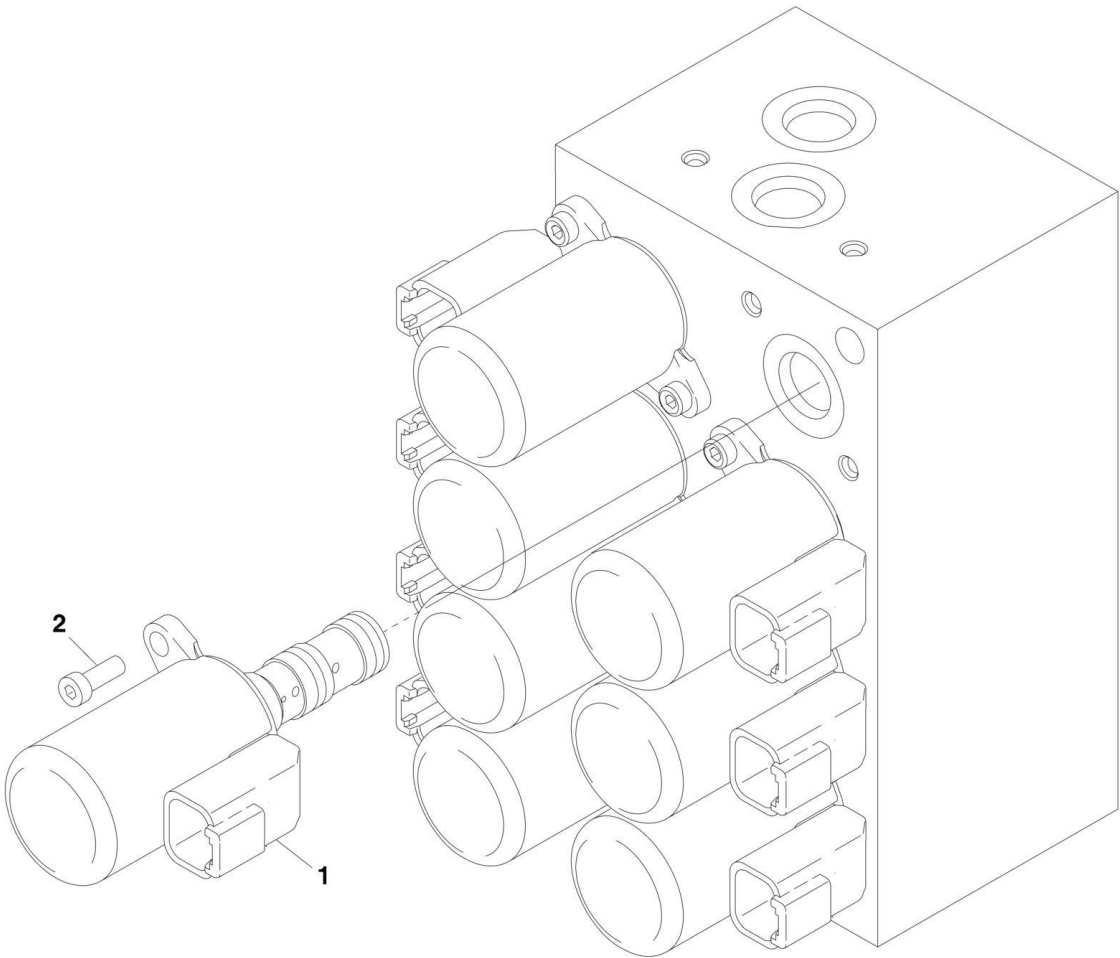
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. STEER SELECT VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623860	1	STEER SELECT VALVE ASSY, (includes all items)	B
1	2130606	2	ELBOW, 90	
2	2110606	2	CONNECTOR	
3	2170106	1	CONNECTOR	
4	8902310	1	STEER SELECT VALVE	
4	70024325	1	KNOB, STEER SELECT VALVE	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. PILOT SELECT MANIFOLD



PAP064

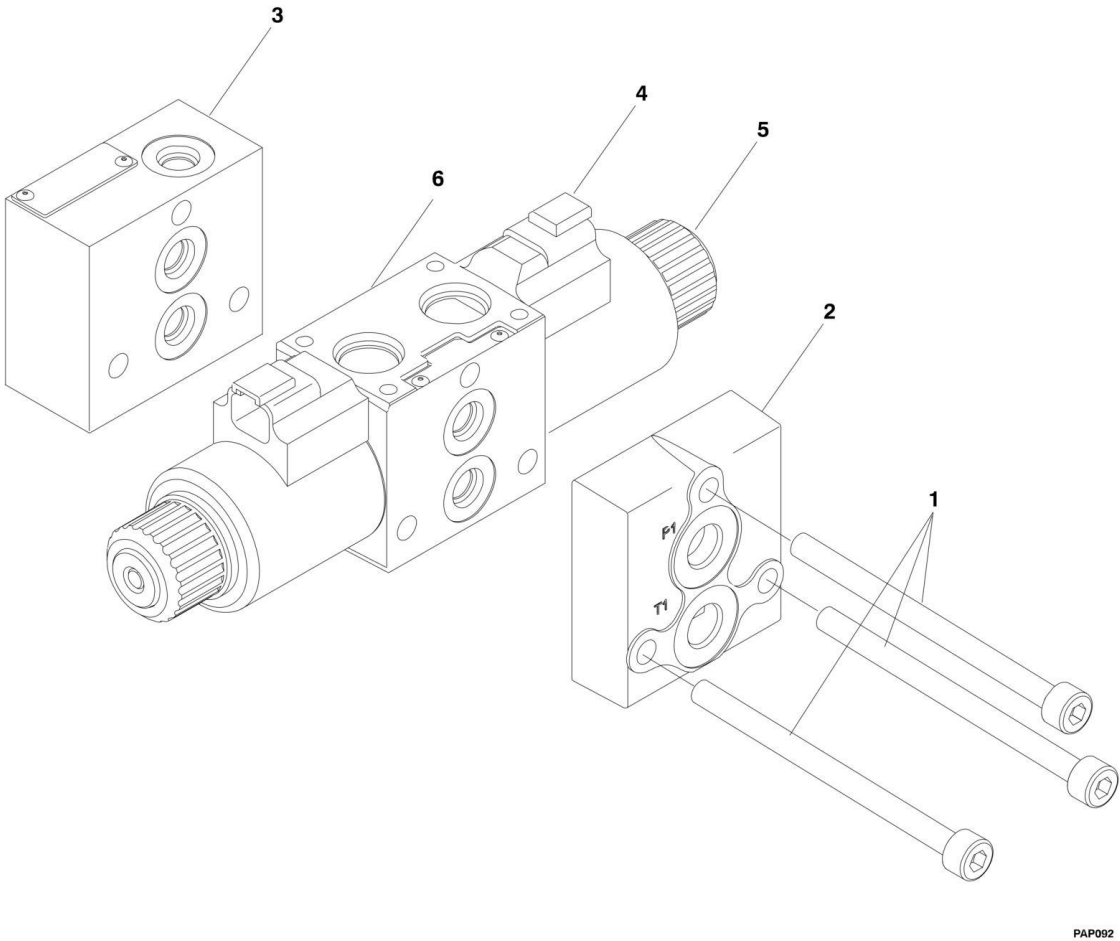
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. PILOT SELECT MANIFOLD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101466	1	PILOT SELECT MANIFOLD ASSY, (includes all items)	A
1	70022388	8	CARTRIDGE, SOLENOID VALVE	
1	70029904	8	SEAL KIT	
2		Ref	CAPSCREW	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. LOAD SENSE CONTROL VALVE



PAP092

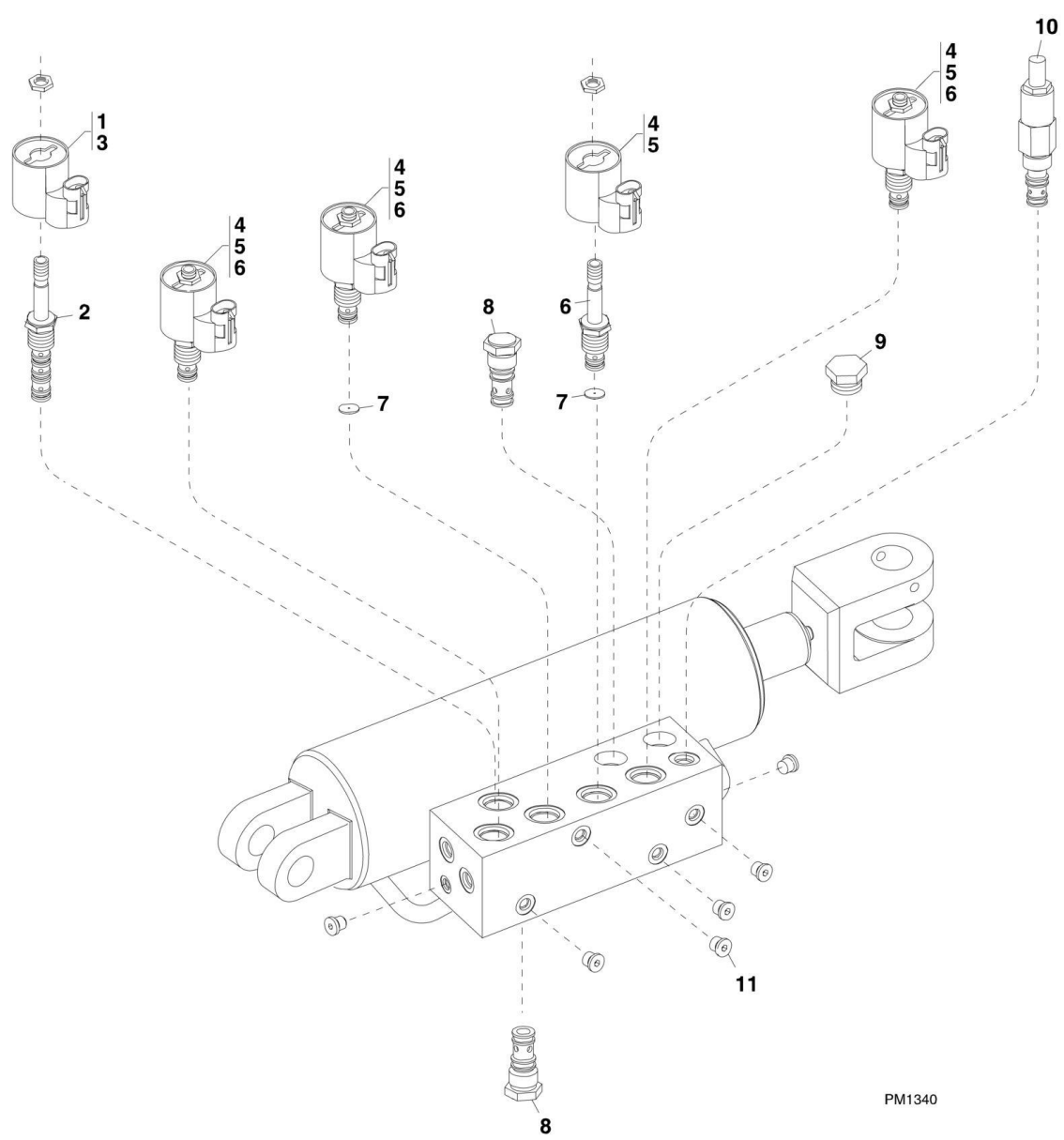
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. LOAD SENSE CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001116606	1	PROPORTIONAL CONTROL VALVE	A
1	70029973	1	TIE BOLT KIT	
2	70021205	1	COVER	
3	70021204	1	INLET BODY	
4	70020868	1	COIL	
5	70020867	1	RETAINER KIT WITH SEALS	
6		Ref	VALVE SECTION (without coils and retainer kit)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-17. STABIL-TRAK VALVE



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SECTION 9 - HYDRAULIC COMPONENTS

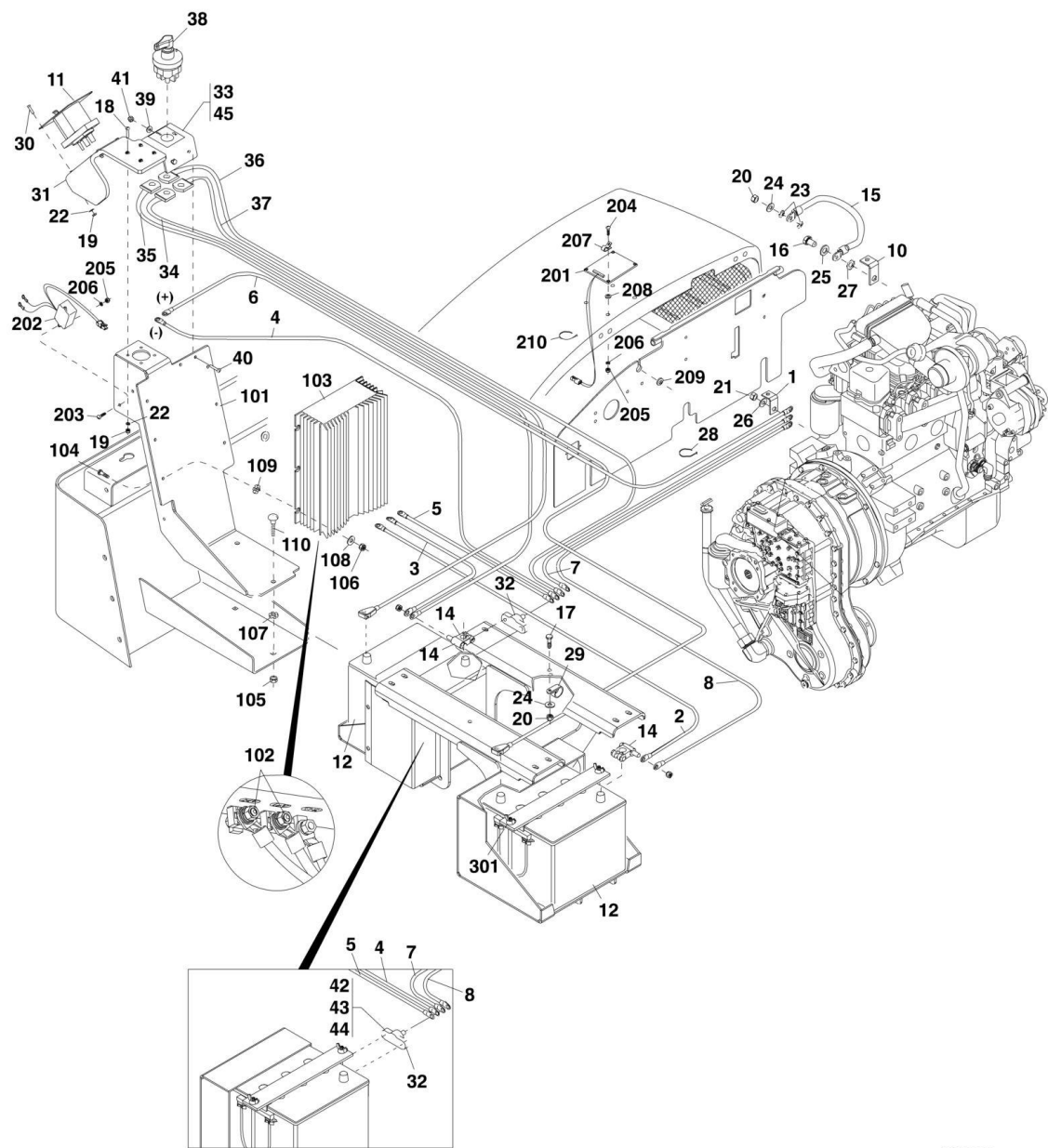
FIGURE 9-17. STABIL-TRAK VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036831	1	SOLENOID VALVE ASSY, 4 WAY, 12V (includes items 2 & 3), (torque to 4-6 lb-ft)	
1	8036740	1	SEAL KIT	
2	8036580	1	SOLENOID VALVE CARTRIDGE	
3	8036579	1	SOLENOID COIL	
4	8036832	4	SOLENOID VALVE ASSY, 2 WAY, NC, 12V, (includes items 5 & 6), (torque to 4-6 lb-ft)	
4	8036438	4	SEAL KIT	
5	8036581	4	SOLENOID VALVE CARTRIDGE	
6	8036579	4	SOLENOID COIL	
7	8035781	2	CONICAL ORIFICE DISK, 0.60IN DIA	
8	8035757	2	PO CHECK VALVE, SERIES 10, (torque to 35-40 lb-ft)	
8	8036739	2	SEAL KIT	
9	8036582	1	CHECK RELIEF VALVE, 200 PSI, (13 Bar), (torque to 25 lb-ft)	
9	8036738	1	SEAL KIT	
10	8035282	1	VALVE, PRESSURE REDUCING 100 PSI, (7 Bar), (torque to 35-40 lb-ft)	
10	8032994	1	SEAL KIT	
11	8035785	6	HEX PLUG, SAE #4	

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FIGURE 10-1. BATTERIES AND CABLES



PAP0082

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FIGURE 10-1. BATTERIES AND CABLES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104337	Ref	BATTERY AND CABLES SUB-ASSEMBLY, (not available to order, see items 1 thru 45 for service)	E
1	6621412	1	TERMINAL, 90	
2	6623475	1	BATTERY CABLE, 24V EQUALIZER POS.	
3	6623477	1	BATTERY CABLE, 12V EQUALIZER POS.	
4	6623478	1	BATTERY CABLE, SLAVE REC. NEG	
5	6623479	1	BATTERY CABLE, EQUALIZER NEG.	
6	6623812	1	BATTERY CABLE, SLAVE REC. POS.	
7	6623813	1	BATTERY CABLE, GROUND	
8	6623814	1	BATTERY CABLE, 24V POS.	
10	7301529	1	BUSS BAR, 90	
11	1001102659	1	CONNECTOR, BATTERY TENDER	
12	8270143	2	BATTERY, 12 VOLT	
14	8270148	2	BATTERY CLAMP, POSITIVE POLARITY	
15	8270150	1	ENGINE POD GROUND CABLE	
16	8303533	1	HEX HD CAPSCREW, M12X1.75X20mm, PC8.8, (torque to 69-78 lb-ft)	
17	8303675	1	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
18	8310016	4	SLOTTED PAN HD SCREW, #10-24X1	
19	8305002	8	HEX NUT, #10-24	
20	8305008	2	HEX NUT, 3/8-16	
21	8305038	1	HEX NUT, M10X1-1/2	
22	8307003	8	LOCKWASHER, #10	
23	8307026	2	LOCKWASHER, 3/8	
24	8307110	2	WASHER, 3/8	
25	8307220	1	WASHER, M12	
26	8307221	1	WASHER, M10	
27	8310650	1	LOCKWASHER, M12	
28	8584001	6	PLASTIC CABLE TIE	
29	10837368	1	DOUBLE TUBE CLAMP	
30	8303837	4	SLOTTED PAN HD SCREW, #10-24X3/4	
31	1001115423	1	BRACKET, HARNESS MOUNT	
32	1001120750	1	INSULATED STUD TERMINAL	
33	1001120766	1	BATTERY DISCONNECT MOUNT	
34	1001120572	1	BATTERY DISCONNECT CABLE, 12-24V NEG.	
35	1001120573	1	BATTERY DISCONNECT CABLE, 12-24V POS.	
36	1001120574	1	BATTERY CABLE, GROUND	
37	1001120575	1	BATTERY DISCONNECT GROUND CABLE	
38	1001120778	1	BATTERY DISCONNECT SWITCH	
39	8307109	2	WASHER, 0.25	
40	8303540	2	HEX HD CAPSCREW, 0.25-20X1, GR5	
41	8305624	2	HEX LOCK NUT, 0.25-20	
42	4711000	2	WASHER, #10	
43	3311005	2	HEX LOCK NUT, 1024, GR2	
44	3931010	2	SOCKET HD CAPSCREW, 10-24X5/8	
45	1001121219	1	BATTERY DISCONNECT DECAL	
	6623802	Ref	EQUALIZER ASSY, (not available to order, see items 101 thru 110 for service)	AB
101	6623716	1	EQUALIZER BRACKET	
102	8229258	2	BATTERY EQUALIZER FUSE KIT, (includes hardware)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
103	8270223	1	BATTERY EQUALIZER	AA
104	8303540	6	HEX HD CAPSCREW, 1/4-20X1, GR5	
105	8305603	3	LOCKNUT, 3/8-16	
106	8305624	6	LOCKNUT, 1/4-20	
107	8307026	3	LOCKWASHER, 3/8	
108	8307109	6	WASHER, 1/4	
109	8310002	6	LOCKWASHER, 1/4	
110	8310335	3	CARRIAGE BOLT, 3/8-16X1-1/2	
	6623799	Ref	SOLARGIZER, SUB-ASSEMBLY, (not available to order, see items 201 thru 210 for service)	
201	6623571	1	SOLARGIZER PANEL	
202	6623572	1	SOLARGIZER CONTROL BOX	
203	8303836	2	SLOTTED PAN HD SCREW, #10-24X5/8	
204	8303893	4	SLOTTED PAN HD SCREW, #10-24X1-1/2	
205	8305002	6	HEX NUT, #10-24	
206	8307003	6	LOCKWASHER, #10	
207	8406002	1	WIRE CLIP	
208	8580215	4	RUBBER GROMMET	
209	8580227	1	RUBBER GROMMET	
210	8584001	2	PLASTIC CABLE TIE	
301		Ref	BATTERY HOLD DOWN, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	

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EIRV



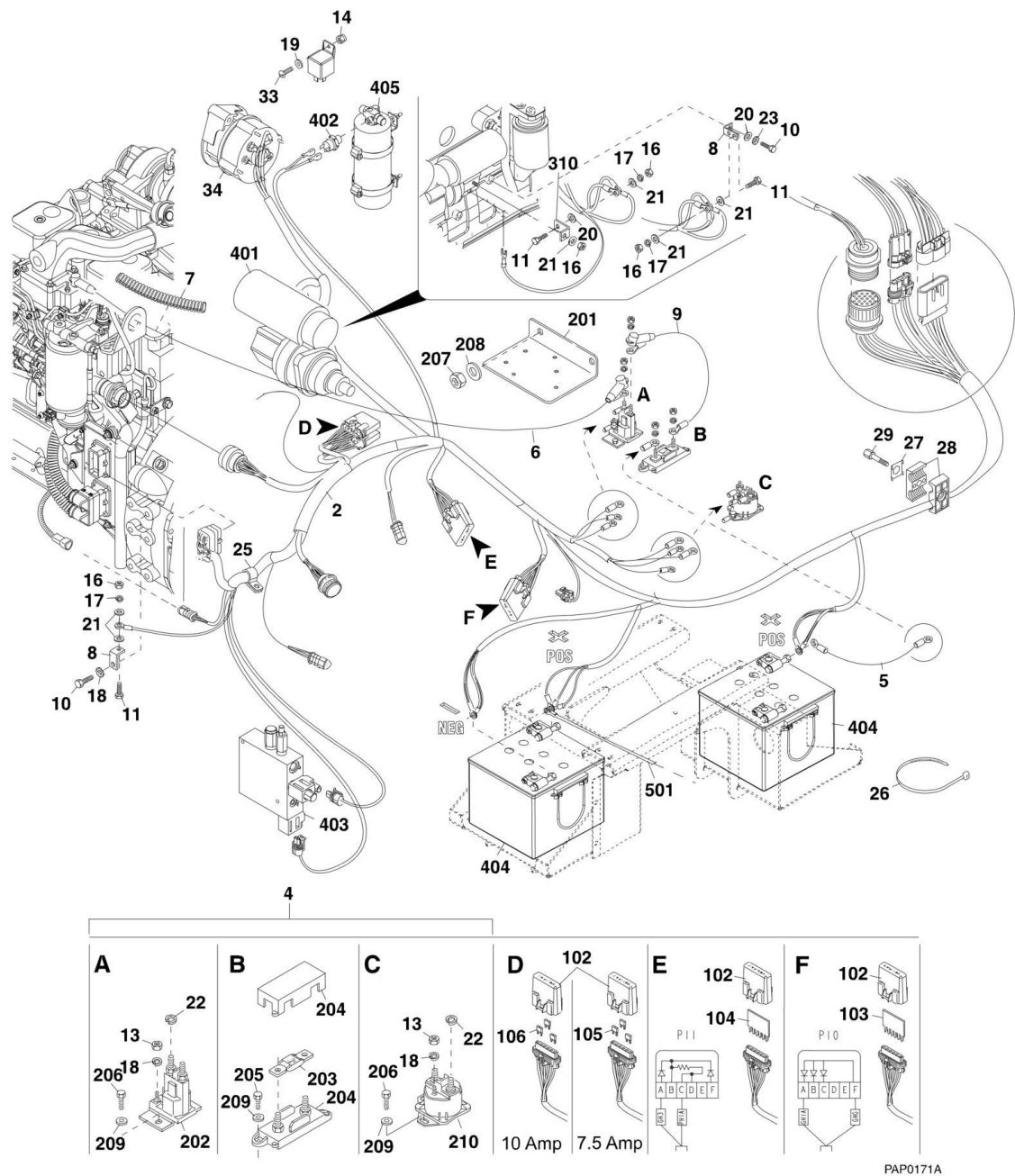
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FIGURE 10-2. CAB HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101693	Ref	OPEN CAB ELECTRICAL SUB ASSY, (not available to order, see items 1 thru 39 for service)	F
1	6611172	1	GROUND CABLE, CAB TO CAB SUPPORT	
2	6623776	1	CAB HARNESS, (includes items 101 & 102)	
4		Ref	DASH MOLDING COVER, (See CAB SECTION for Breakdown)	
5	7151322	1	BRAKE LIGHT SWITCH BRACKET	
6	7301147	1	BUZZER BRACKET	
9	8220360	1	DASH PANEL	
10	8223049	1	TRANSMISSION CONTROL SELECTOR, (includes attaching hardware)	
11	8223238	2	BRAKE LIGHT SWITCH	
12	8223455	1	KEYLESS IGNITION SWITCH, (includes items 103 & 104)	
13		Ref	FUSE/RELAY BOX, (See FUSE BOX for Breakdown)	
21	8270627	1	BUZZER ALARM, 12V	
23	8303607	2	HEX HD CAPSCREW, M6X1-25MM, PC8.8	
24	8305637	2	LOCKNUT, M6X1	
25	8305652	1	LOCKNUT, M6X1	
26	8305654	2	LOCKNUT, M8	
27	8307219	3	WASHER, M6	
28	8307222	2	LOCKWASHER, M8	
33	8310647	4	WASHER, M8	
34	8310683	2	HEX HD SCREW, 5/16-18X3/4, (SELF DRILLING)	
35	8310687	2	LOCKWASHER, M6	
36	8584001	AR	TY-RAP	
37	8584018	6	TY-RAP MOUNT	
38	8660017	1	RUBBER GROMMET	
39	1001102591	1	GEAR CONTROL HARNESS, (includes items 105, 106 & 107)	C
40	1001114999	1	FUEL SENSOR HARNESS	
41	1001115101	1	VOLT GUAGE HARNESS	
101	8220357	2	CLEAR COVER, VES-PAC	
102	8220366	2	CIRCUIT BOARD, 3 DIODE	
103	70029907	4	SCREW, #10-32	
104	70029908	4	LOCKWASHER, #10	
105	8220357	3	CLEAR COVER, VES-PAC	
106	8220363	1	CIRCUIT BOARD, 3 DIODE	
107	8220366	2	CIRCUIT BOARD, 2 DIODE	
208	1001102592	1	SEAT/E-STOP HARNESS, (includes item 301)	D
209	4360475	1	E-STOP SWITCH	
210	1001102101	1	SEAT SWITCH	
301	70029905	1	TIME DELAY RELAY	
302	1001120369	1	SEAT SWITCH EXTENSION HARNESS	
403	8223054	1	SWITCH, PARK BRAKE	
405	8223081	1	ECM INDICATOR	
509	1001102414	1	LMI DISPLAY UNIT	
511	1001104899	1	ENGINE PREHEAT SWITCH	
512	1001104900	1	FRAME SWAY SWITCH	
601		Ref	THROTTLE SENSOR, ROTARY POSITION, (See CONTROLS SECTION for Breakdown)	
711	1001104898	1	AXLE/SERVICE INDICATOR	
712	1001104903	1	CREEP MODE SWITCH	

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FIGURE 10-3. ENGINE POD WIRING



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FIGURE 10-3. ENGINE POD WIRING

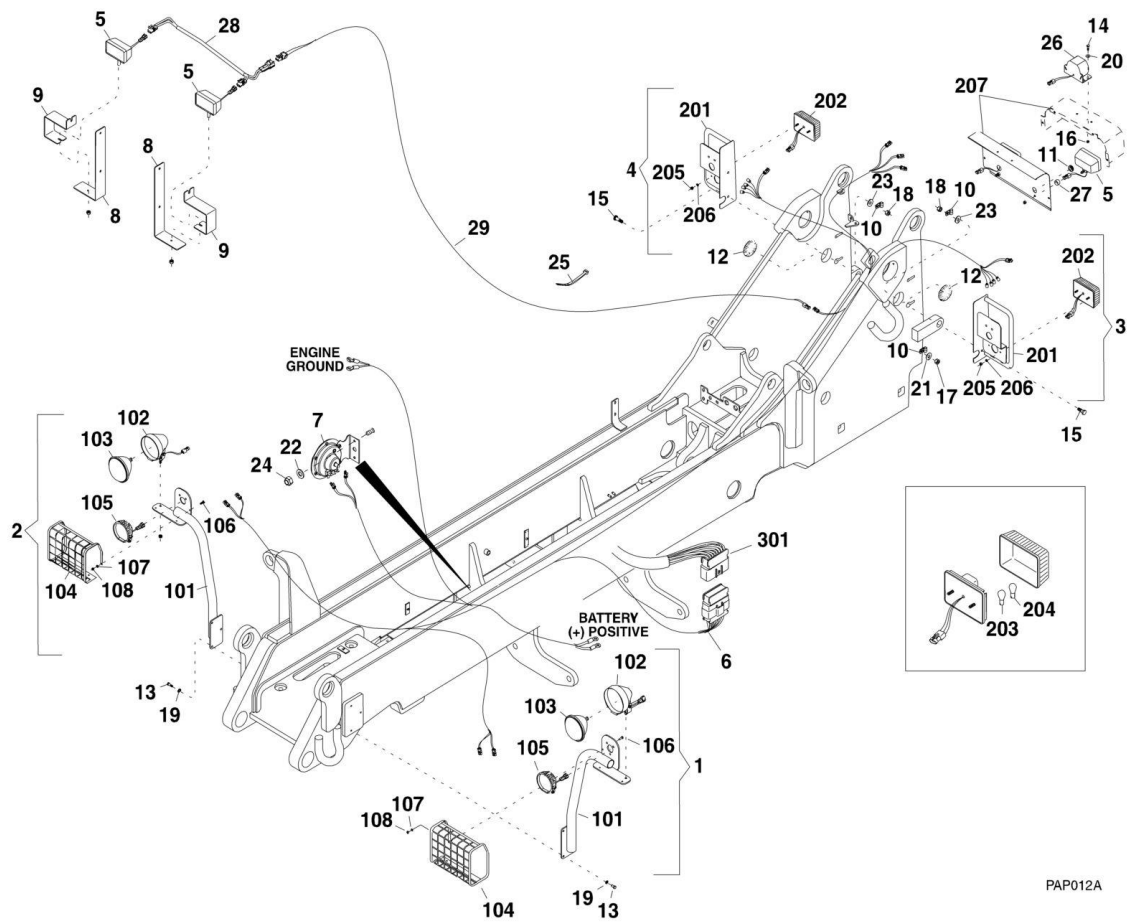
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623805	1	ENGINE POD WIRING INSTALL, (not available to order, see items 1 thru 34 for service)	F
1		Ref	TRANSMISSION HARNESS (not shown) (See TRANSMISSION HARNESS for Breakdown)	
2	6623807	1	ECM VEHICLE POWER HARNESS, (includes items 109 thru 126)	E
3		Ref	SENSOR HARNESS, (See ENGINE SENSORS for Breakdown)	
4	6623809	1	RELAY ASSY, (includes items 201 thru 210)	AB
5	6623875	1	GRID HEATER CABLE, BATTERY TO FUSE	
6	6623876	1	RELAY TO GRID HEATER CABLE	
7	7125811	1	CONDUIT	
8	7300344	2	NEGATIVE STARTER BUS BAR	
9	7301448	1	GRID HEATER CABLE, FUSE TO RELAY	
10	8303533	1	HEX HD CAPSCREW, M12X1.75X20mm, PC8.8	
11	8303777	3	HEX HD CAPSCREW, M10X1.5-35MM, PC8.8	
13	8305003	3	HEX NUT, #10-32	
14	8305004	1	HEX NUT, 1/4-20	
16	8305038	3	HEX NUT, M10X1.5	
17	8307023	3	LOCKWASHER, M10	
18	8307052	3	LOCKWASHER, M10	
19	8307109	1	WASHER, 1/4	
20	8307220	1	WASHER, M12-13X24X2.5	
21	8307221	6	WASHER, M10	
22	4791500	4	STAR WASHER, 5/16	
23	8310650	1	LOCKWASHER, M12	
24		Ref	TUBE CLIP, 3/4 (See TRANSMISSION HARNESS for Breakdown)	
25	8406201	2	TUBE CLIP, 1-1/2	
26	8584001	AR	TY-RAP	
27	8750017	1	LOCKING PLATE	
28	8750022	1	CLAMP SET, 1.26IN DIA	
29	8750026	1	STACKING BOLT	
33	10700003	1	HEX HD CAPSCREW, 1/4-20X3/8, GR5	
34	8270214	1	ALTERNATOR, 24V - 65 AMP	
102	8220357	4	CLEAR VES-PAC COVER	
103	8220366	1	ECM DIODE CIRCUIT BOARD	
104	8220365	1	DIODE/RESISTOR CIRCUIT BOARD	
105	8229243	3	FUSE, MINI, 7.5 AMP	
106	8229264	3	FUSE, MINI, 10 AMP	
201	6623810	1	RELAY MOUNTING BRACKET	
202	6623811	1	RELAY, 4 POST	
202	3300220	2	HEX NUT, 5/16-24	
203	8229259	1	FUSE, 125A, MEGA BOLT ON	
204	8229260	1	MEGA FUSEBLOCK	
204	3300220	2	HEX NUT, M8	
205	8303544	2	HEX HD CAPSCREW, M6X1X20MM, PC8.8, (torque to 7-12.5 Nm)	
206	8303545	4	HEX HD CAPSCREW, M6X1X14MM, PC8.8, (torque to 7-12.5 Nm)	
207	8305008	2	HEX NUT, 3/8-16, (torque to 7-12.5 Nm)	
208	8307110	2	WASHER, 3/8	
209	8307219	6	WASHER, M6	
210	10167789	1	3 POST RELAY	
310	7301529	1	BUS BAR, 90	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401		Ref	STARTER, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
402		Ref	AC PRESSURE SWITCH, (See CAB SECTION for Breakdown)	
403		Ref	SECONDARY FUNCTION MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
404		Ref	BATTERY, (See BATTERIES AND CABLES for Breakdown)	
405		Ref	AC RECEIVER/DRYER, (See CAB SECTION for Breakdown)	
501		Ref	VOLT GAUGE HARNESS, (See CAB HARNESS for Breakdown)	

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FIGURE 10-4. ROADLIGHTS



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FIGURE 10-4. ROADLIGHTS

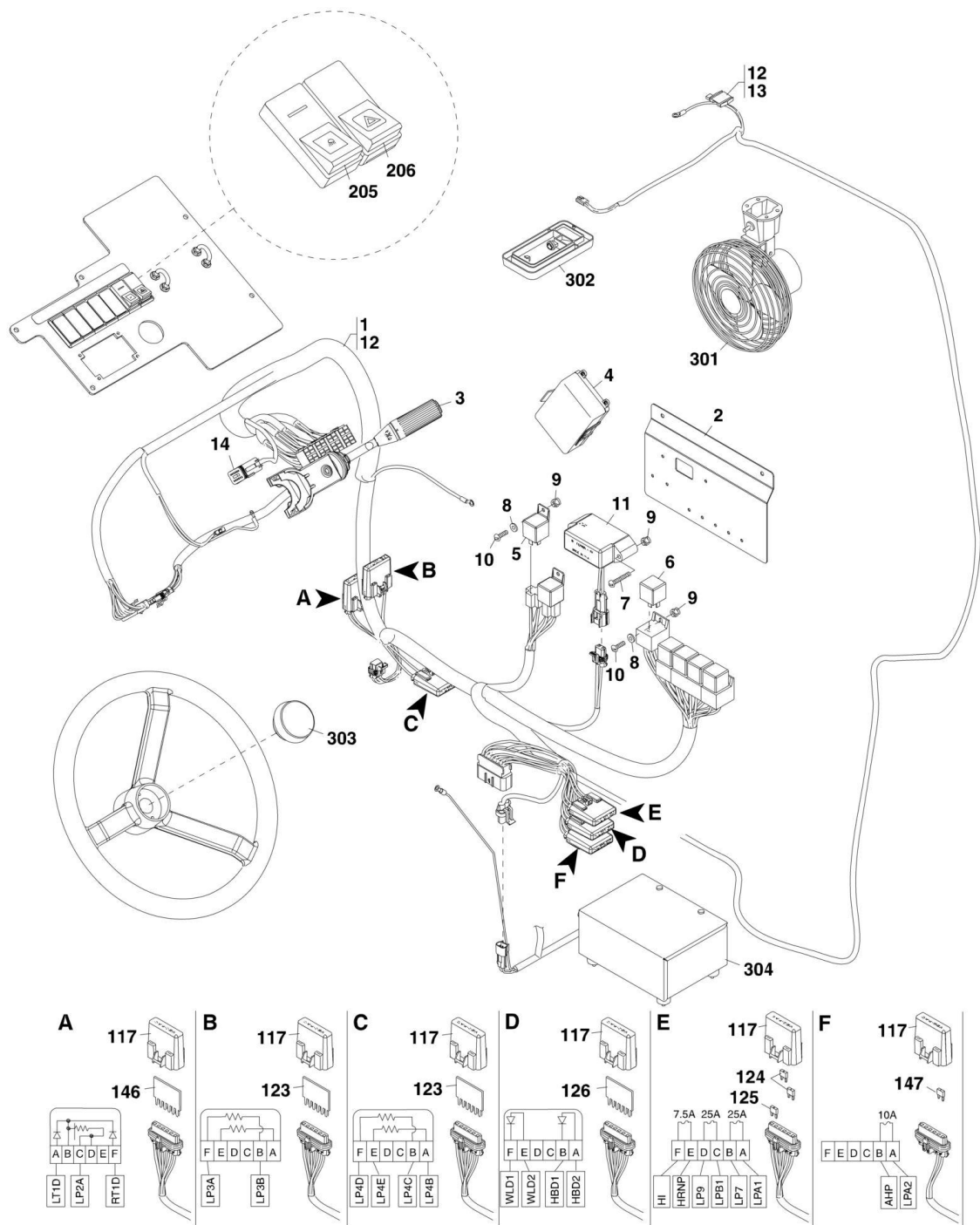
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101721	Ref	LIGHTING EIRV INSTALLATION, (not available to order, see items 1 thru 29 for service)	A
1	1001102629	1	LIGHT BRACKET ASSY, (left front), (includes items 101 thru 108)	A
2	1001110106	1	LIGHT BRACKET ASSY, (right front), (includes items 101 thru 108)	A
3	1001110246	1	LIGHT BRACKET ASSY, (left rear), (includes items 201 thru 206)	A
4	1001110247	1	LIGHT BRACKET ASSY, (right rear), (includes items 201 thru 206)	A
5	1001102234	4	WORKLIGHT, (includes mounting hardware)	
6	1001102589	1	HARNESS, VEHICLE LIGHTING	
7	8270623	1	HORN	
8	1001102230W	2	BRACKET, LAMP, WORK	
9	1001102374W	2	BRACKET, LIGHT WORK	
10	8406105	5	TUBE CLIP, 3/4	
11	8580228	2	RUBBER GROMMET	
12	7124471	2	CONDUIT, 1IN DIA	
13	8303681	6	HEX HD CAPSCREW, 3/8-16X3/4	
14	8303697	2	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
15	8303771	4	HEX HD CAPSCREW, 3/8-16X2-1/4	
16	8305006	2	HEX NUT, 5/16-18	
17	8305624	2	LOCKNUT, 1/4-20	
18	8305645	4	LOCKNUT, 3/8-16	
19	8307005	6	LOCKWASHER, 3/8	
20	8307106	2	WASHER, 5/16	
21	8307109	2	WASHER, 1/4	
22	8307111	2	WASHER, #10	
23	8307204	8	WASHER, 3/8	
24	8310085	2	LOCKNUT, #10-24	
25	8584001	7	TIE WRAP	
26	1001099810	1	BACKUP ALARM	
27	1001110425	2	SPACER, WORKLIGHT	
28	1001110599	1	HARNESS, BOOM LIGHT	
29	6623468	1	HARNESS, BOOM WORKLIGHT	
101	1001102630W	1	LIGHT BRACKET, (left front)	
101	6623445W	1	LIGHT BRACKET, (right front)	
102	8500064	2	HEADLAMP ASSY, (includes item 103 and mounting hardware)	AB
103	8036324	2	SEALED BEAM, 28V/60-80W	
104	1001102632W	1	LIGHT GUARD, LH	
104	6623607W	1	LIGHT GUARD, RH	
105	1001102678	2	LAMP, DAYTIME RUNNING	
106	0641407	6	HEX HD CAPSCREW, 1/4-20X7/8	
107	4761400	6	WASHER, 1/4	
108	3311401	6	HEX NUT, 1/4-20	
201	6623448W	1	LIGHT BRACKET, (left rear)	
201	6623453W	1	LIGHT BRACKET, (right rear)	
202	8500063	2	TAIL LIGHT, (includes items 203 AND 204)	AA
203	8036326	1	BULB 24V - 21/5W	
204	8036327	1	BULB 24V - 21W	
205	8310188	8	HEX NUT, M5	
206	8310078	8	LOCKWASHER, M5	
207		Ref	HEADER, (See FRAME AND ATTACHING PARTS SECTION for	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301		Ref	Breakdown) CAB LIGHTING HARNESS, (See CAB LIGHTS for Breakdown)	

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FIGURE 10-5. CAB LIGHTS



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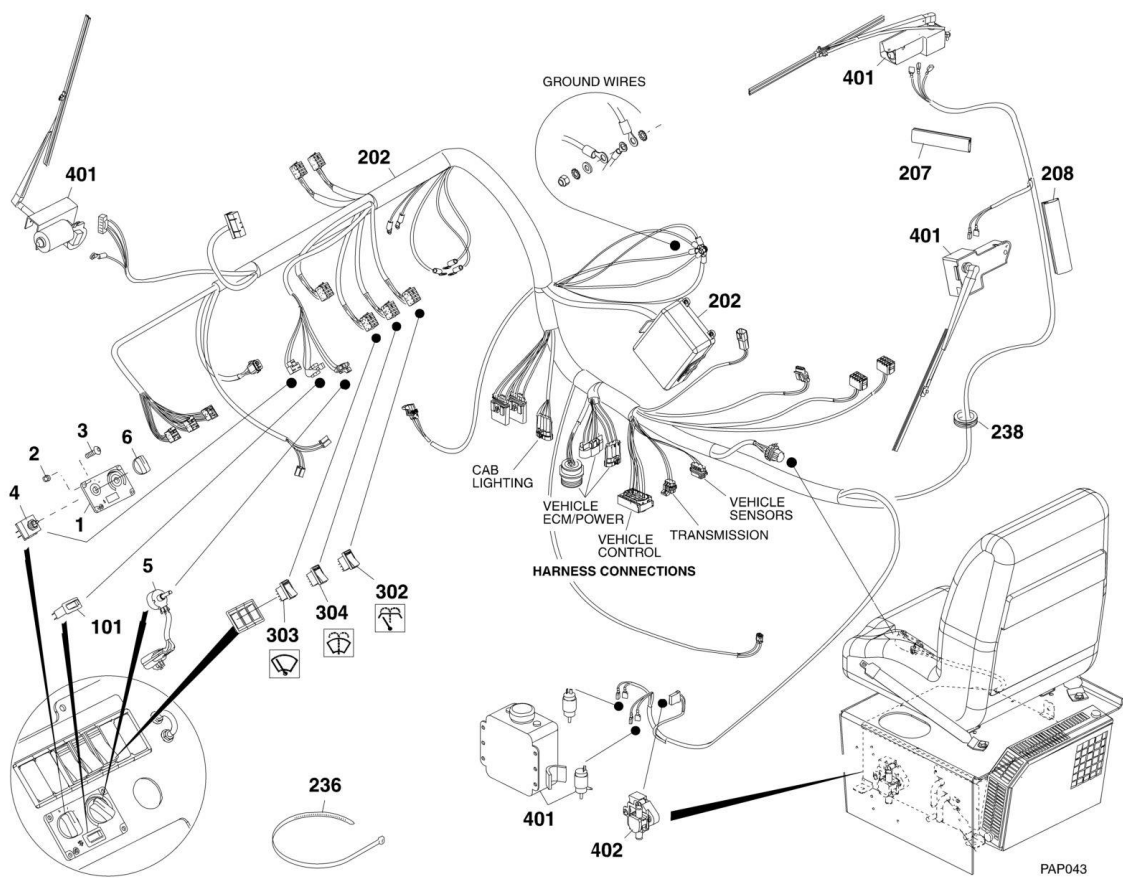
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FIGURE 10-5. CAB LIGHTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112736		CAB LIGHTING INSTALLATION, (not available to order, see items 1 thru 14 for service)	A
1	6623793	1	CAB LIGHTING HARNESS, (includes items 117 thru 147)	F
2	6623795	1	CAB RELAY MOUNTING BRACKET	
3	7150742	1	TURN SIGNAL LEVER, (includes attaching hardware)	
4		Ref	FUSE BOX, (See FUSE BOX for Breakdown)	
5	8225114	2	RELAY, 24V, SPDT W/BRACKET	
6	8225119	5	RELAY, 12V SEALED, (high inrush w/resistor)	
7	8303920	2	SLOTTED PAN HD CAPSCREW, #10-24X1-3/4	
8	8307111	7	WASHER, #10	
9	8310085	9	LOCKNUT, #10-24	
10	8310362	7	BUTTON HD CAPSCREW, #10-24X1/2	
11	8500204	1	MODULE FLASHER, 12-48 VDC SOLID STATE	
12	8584001	AR	TY-RAP	
13	8584018	1	TY-RAP MOUNT	
14	4460898	1	CONNECTOR, 12 PIN	
117	8220357	6	CLEAR VES-PAC COVER	
123	8220367	2	RESISTOR BOARD	
124	8229247	2	FUSE, MINI, 25 AMP	
125	8229243	1	FUSE, MINI, 7.5 AMP	
126	8220356	1	DIODE BOARD	
146	8220365	1	DIODE/RESISTOR BOARD	
147	8229234	1	FUSE 10 AMP	
205	8223066	1	WORKLIGHT SWITCH	
206	8223067	1	HAZARD SWITCH	B
301		Ref	PERSONAL FAN, (See CAB SECTION for Breakdown)	
302		Ref	DOME LAMP, (See CAB SECTION for Breakdown)	
303		Ref	CAP W/HORN BUTTON, (See CONTROLS SECTION for Breakdown)	
304		Ref	ARCTIC KIT HEATER ASSY, (See CAB SECTION for Breakdown)	A

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FIGURE 10-6. CAB WIPERS



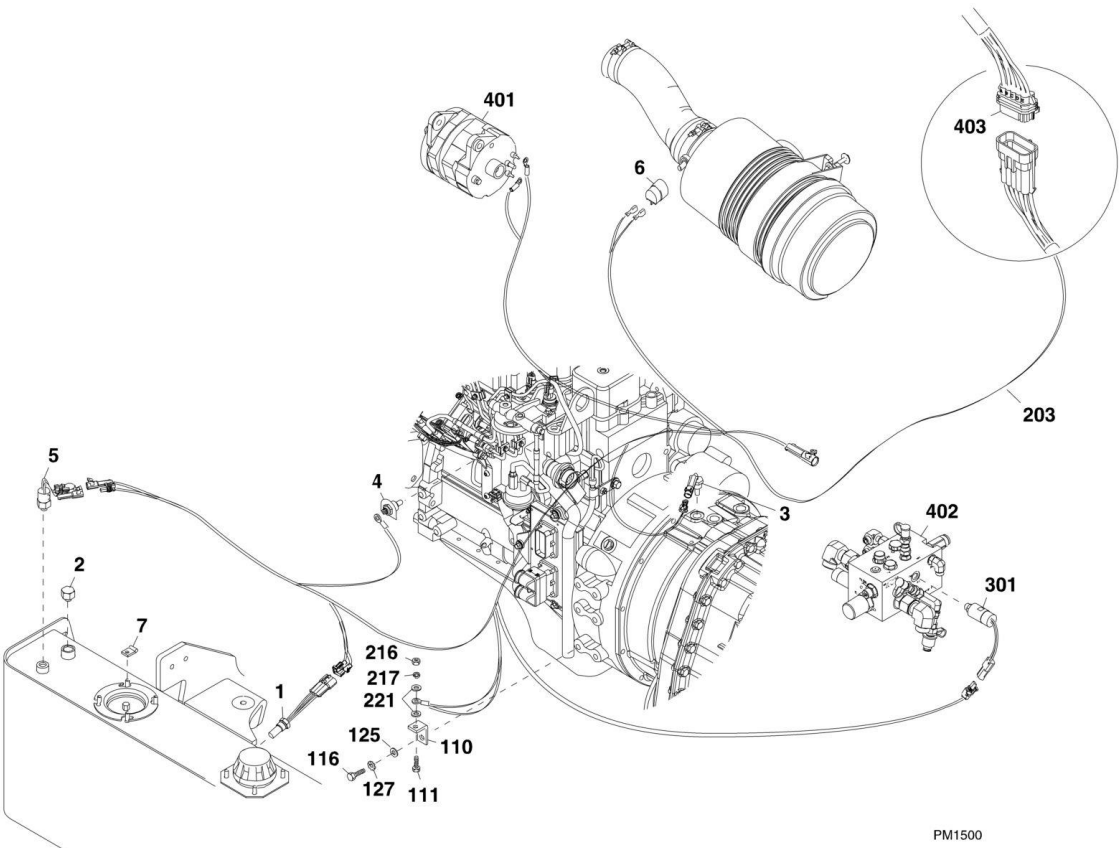
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FIGURE 10-6. CAB WIPERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301281	1	CONTROL PANEL ASSY, (includes items 1 & 3)	AB
1	7301260	1	HEATER CONTROL PANEL, (includes items 4 thru 6)	AC
2	8310410	4	LOCKNUT, #8-32	
3	8310744	4	BUTTON HD CAPSCREW, #8-32X1/2	
4	8036463	1	BLOWER CONTROL SWITCH	
5	8036603	1	TEMPERTURE CONTROL SWITCH	
6	8036438	2	POSITIONING KNOB	
	7301285	Ref	AC SWITCH ASSY, (includes item 202)	AB
101	7301265	1	AC SWITCH	
202		Ref	CAB HARNESS AND FUSE BOX, (See CAB HARNESS for Breakdown)	
207	7301854	1	CONDUIT	
208	7301998	1	CONDUIT	
236	8584001	AR	TY-RAP	
238	8660017	1	RUBBER GROMMET	
302	8223040	1	ROOF WIPER/WASHER SWITCH	
303	8223043	1	WINDSHIELD WIPER SWITCH	
304	8223044	1	WINDSHIELD WASHER	
401		Ref	WIPERS AND RESERVOIR, (See CAB SECTION for Breakdown)	
402		Ref	HEAT VALVE, (See CAB SECTION for Breakdown)	

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FIGURE 10-7. ENGINE SENSORS



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FIGURE 10-7. ENGINE SENSORS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	6623801	1	ENGINE SENSORS SUB-ASSEMBLY, (not available to order, see items 1 thru 7 for service)	D
1	8223248	1	DUAL HYDRAULIC TEMPERATURE SWITCH	
2	2220238	1	PLUG	
3	8223232	1	TRANSMISSION TEMPERATURE SWITCH	
4	8223246	1	WATER TEMPERATURE SENDER	
5	8223526	1	HYDRAULIC OIL FILTER PRESSURE SWITCH	
6	8223527	Ref	VACUUM SWITCH	
7	8406109	1	TUBE CLIP	
110	7301529	1	BUS BAR, 90	
111	8303777	1	HEX HD CAPSCREW, M10X1.5-35MM, PC8.8	
116	8303533	1	HEX HD CAPSCREW, M12X1.75X20MM	
125	8307220	1	WASHER, M12	
127	8310650	1	LOCKWASHER, M12	
203	6623808	Ref	SENSOR HARNESS	
216	8305038	1	HEX NUT, M10X1.5	
217	8307023	1	LOCKWASHER, M10	
221	8307221	2	WASHER, M10	
301	8223241	1	PRESSURE SWITCH	
401		Ref	ALTERNATOR, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
402		Ref	ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
403		Ref	CAB HARNESS, (See CAB HARNESS for Breakdown)	

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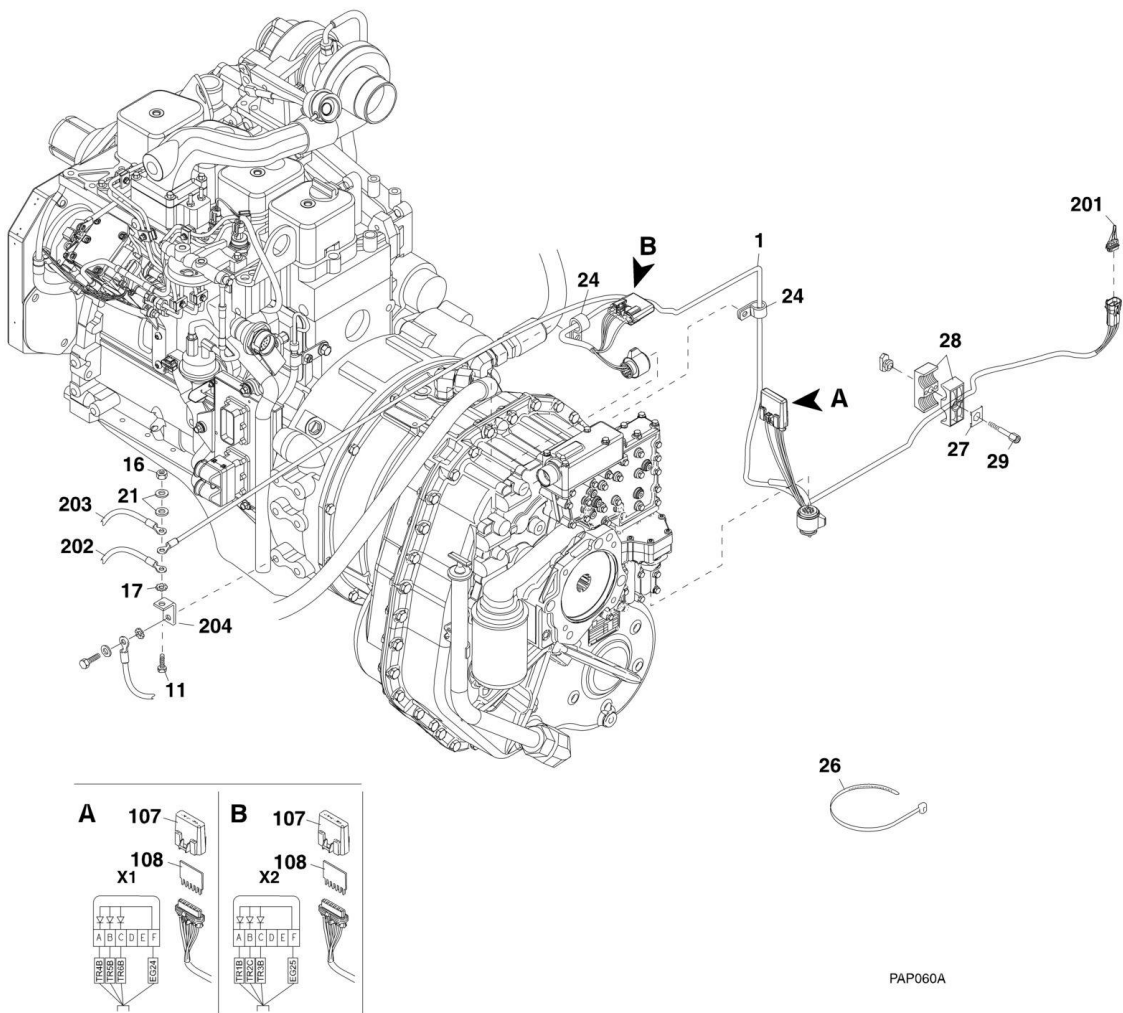
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FIGURE 10-8. LMI AND STABIL-TRAK SENSORS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100924	1	SENSOR ASSEMBLY, LMI/CENTER, (includes items 1 thru 9)	D
1	8307022	2	LOCKWASHER, M8	
2	8307023	2	LOCKWASHER, M10	
3	8310293	2	HEX HD CAPSCREW, M8-1.25X50MM, PC8.8	
4	8310534	2	HEX HD CAPSCREW, M10-1.5X40MM, PC10.9	
5	8405201	2	GEAR CLAMP	
6	8466312	1	LMI SENSOR TRANSDUCER	
7	1001100904	1	TARGET, CENTER SENSOR	
8	1001100923	1	BRACKET, ASSEMBLY, CENTER SENSOR	
9	1001102155	1	SENSOR, WHEEL CENTERING	A
	1001101722	Ref	SUB-ASSEMBLY, TRACTOR WIRING, (not available to order, see items 101 thru 111 for service)	
101	6611172	2	GROUND STRAP	
103	1001102588	1	VEHICLE CONTROL HARNESS	
104	8223237	1	SWITCH, PROXIMITY, BOOM ANGLE	
105	8305624	1	LOCKNUT, 1/4-20	
106	8305645	4	LOCKNUT, 3/8-16	
107	8307026	8	LOCKWASHER, 3/8	
108	8307109	1	WASHER, 1/4	
109	8307110	4	WASHER, 3/8	F
110	8406002	1	WIRE CLIP	
111	8584001	AR	TY-RAP	
202	1001102590	1	CONTROL VALVE HARNESS	
202	70029906	11	RELAY	
216	1001111351	1	BRACKET, RELAY MOUNT	
228	3311402	9	NUT, JAM, 1/4-20	
229	3311408	1	HEX NUT, 1/4-20	
231		Ref	PILOT SELECT MANIFOLD, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
232		Ref	LOAD SENSE CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
313	1001104901	1	FINE MODE SWITCH	
466	8223237	1	SWITCH, PROXIMITY, BOOM ANGLE	
501		Ref	JOYSTICK CONTROLLER, (See CAB SECTION for Breakdown)	
502		Ref	LMI DISPLAY UNIT, (See CAB HARNESS for Breakdown)	
503		Ref	STABIL-TRAK CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
504		Ref	STABIL-TRAK VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
665		Ref	JIB BOOM CABLE, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
715		Ref	HHCS, (See ROADLIGHTS for Breakdown)	

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FIGURE 10-9. TRANSMISSION HARNESS



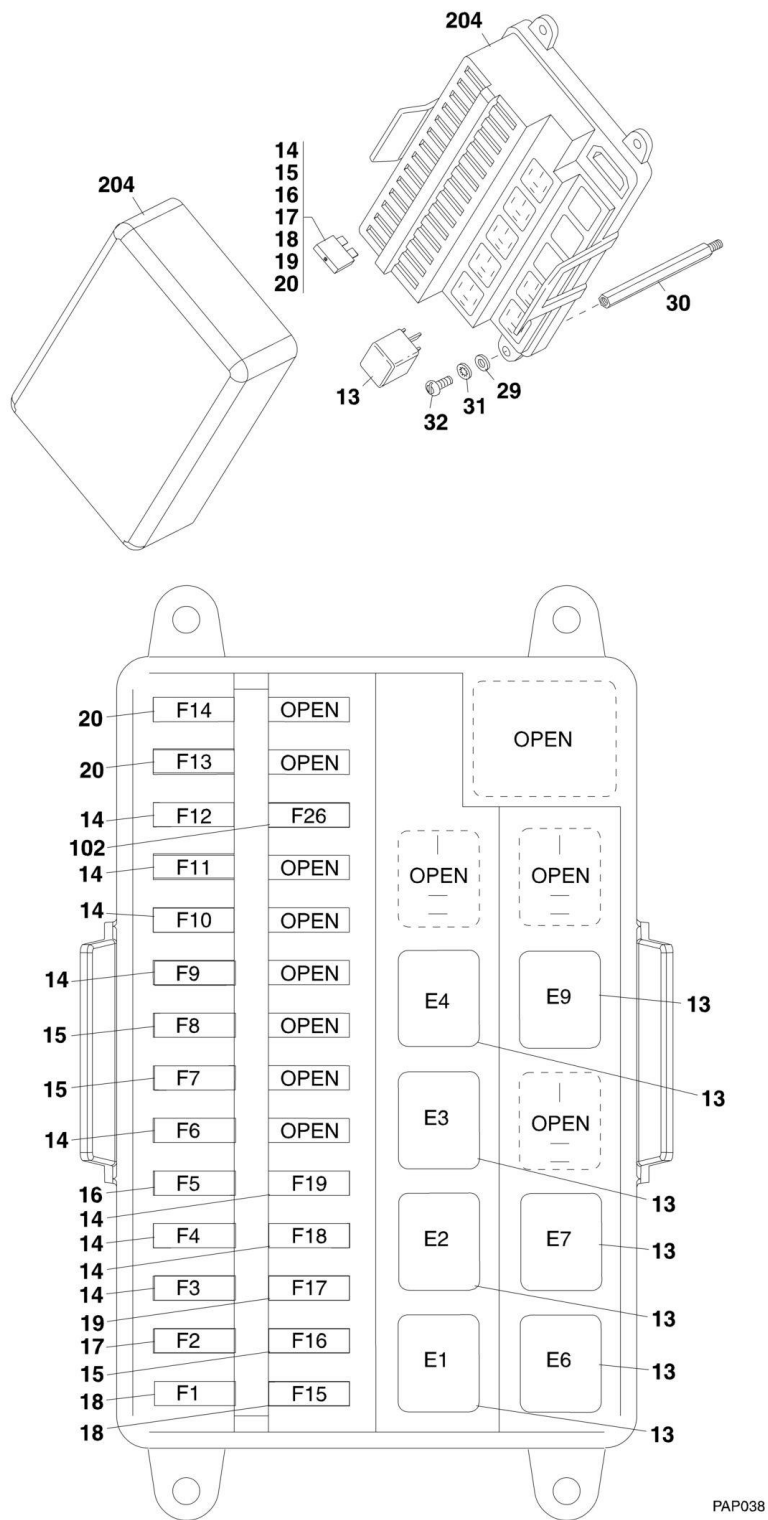
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FIGURE 10-9. TRANSMISSION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	6623806	1	TRANSMISSION HARNESS, (includes items 107 & 108)	
11	8303777	3	HEX HD CAPSCREW, M10X1.5-35MM, PC8.8, (torque to 25-45 lb ft)	
16	8305038	1	HEX NUT	
17	8307023	1	LOCKWASHER	
21	8307221	2	WASHER	
24	8406105	2	TUBE CLIP, 3/4	
26	8584001	AR	TY-RAP	
27	8750017	1	LOCKING PLATE	
28	8750022	1	CLAMP SET, 1.26IN DIA	
29	8750026	1	STACKING BOLT	
107	8220366	2	DIODE BOARD	
108	8220357	2	CLEAR VES-PAC COVER	
201		Ref	CAB HARNESS, (See CAB HARNESS for Breakdown)	
202		Ref	ECM HARNESS, (See ENGINE POD WIRING for Breakdown)	
203		Ref	SENSOR HARNESS, (See ENGINE SENSORS for Breakdown)	
204		Ref	BUSS BAR, (See BATTERIES AND CABLES for Breakdown)	

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FIGURE 10-10. FUSE BOX



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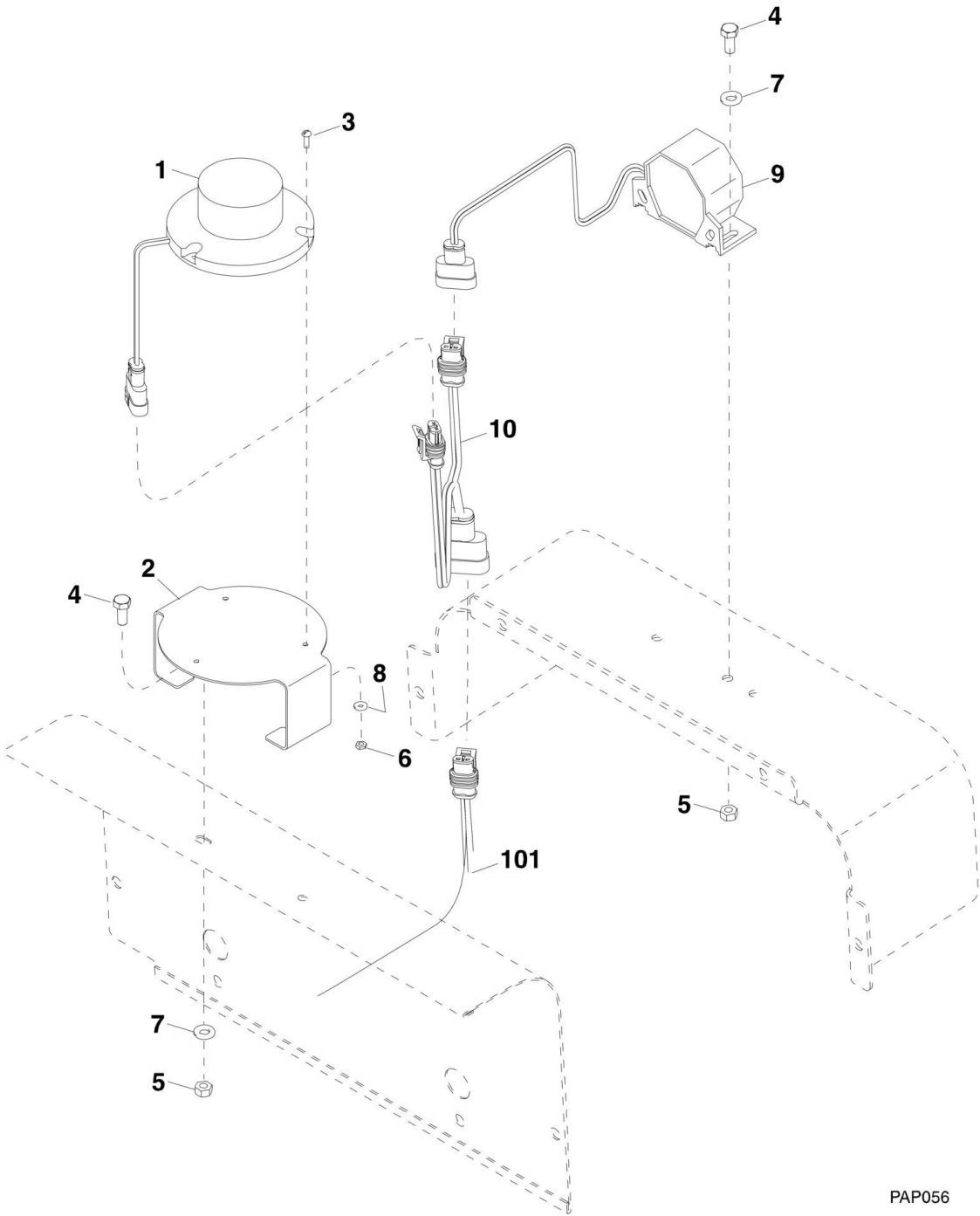
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FIGURE 10-10. FUSE BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
13	8225119	7	RELAY, 12V SEALED	
14	8229233	9	FUSE, 7.5 AMP, (brown), AUTO BLADE TYPE	
15	8229234	3	FUSE, 10 AMP, (red), AUTO BLADE TYPE	
16	8229235	1	FUSE, 20 AMP, (yellow), AUTO BLADE TYPE	
17	8229237	1	FUSE, 15 AMP, (blue), AUTO BLADE TYPE	
18	8229238	2	FUSE, 40 AMP, (orange), AUTO BLADE TYPE	
19	8229262	1	FUSE, 25 AMP, (clear), AUTO BLADE TYPE	
20	8229263	2	FUSE, 3 AMP, (violet), AUTO BLADE TYPE	
29	8310390	4	WASHER, M5	
30	8310640	4	STEEL HEX STANDOFF, 80MM	
31	8310641	4	LOCKWASHER, M5	
32	8310642	4	SLOTTED PAN HD SCREW, M5-.8-12MM	
102	8229262	1	FUSE, 25 AMP, (clear), AUTO BLADE TYPE	
	6623879	Ref	CAB LIGHTING INSTALLATION, (not available to order, see item 204 for service)	
204	8220362	1	FUSE/RELAY BOX	AC

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FIGURE 10-11. STROBE LAMP/BACKUP ALARM



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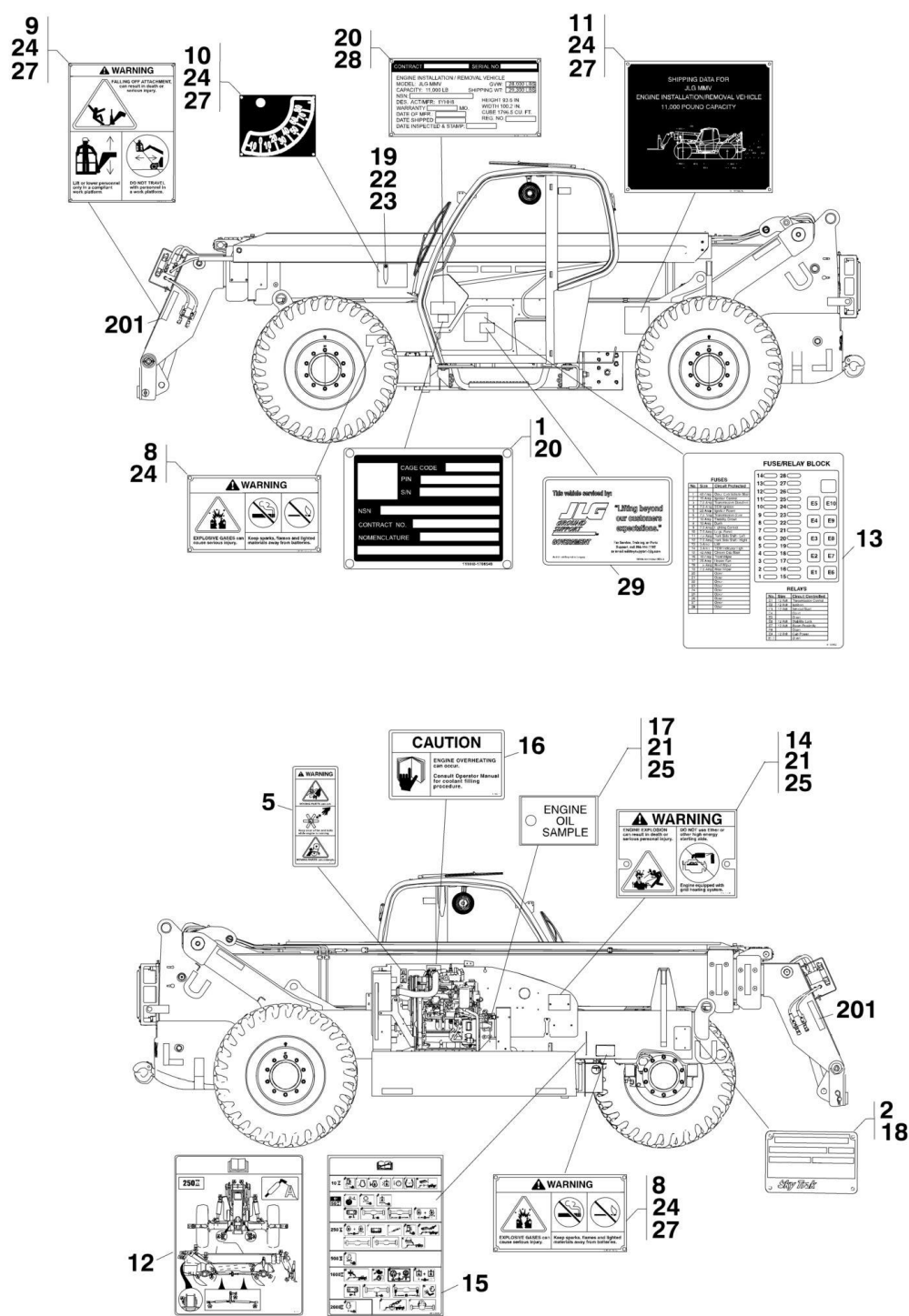
FIGURE 10-11. STROBE LAMP/BACKUP ALARM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110585	Ref	STROBE LAMP INSTALLATION, (includes all items)	A
1	1001102235	1	STROBE LAMP	
2	1001102593W	1	STROBE LAMP, BRACKET	
3	3910808	3	SCREW #8-32X1/2	
4	8303697	4	HEX HD CAPSCREW, 5/16-18X3/4	
5	8305006	4	HEX NUT, 5/16-18	
6	8305030	3	HEX NUT, #8-32	
7	8307106	4	WASHER, 5/16	
8	8310732	3	WASHER, #8	
9	1001099810	1	BACKUP ALARM	
10	1001110661	1	STROBE LAMP HARNESS	
101		Ref	HARNESS, VEHICLE LIGHTING, (See ROADLIGHTS for Breakdown)	

SECTION 11 - DECALS

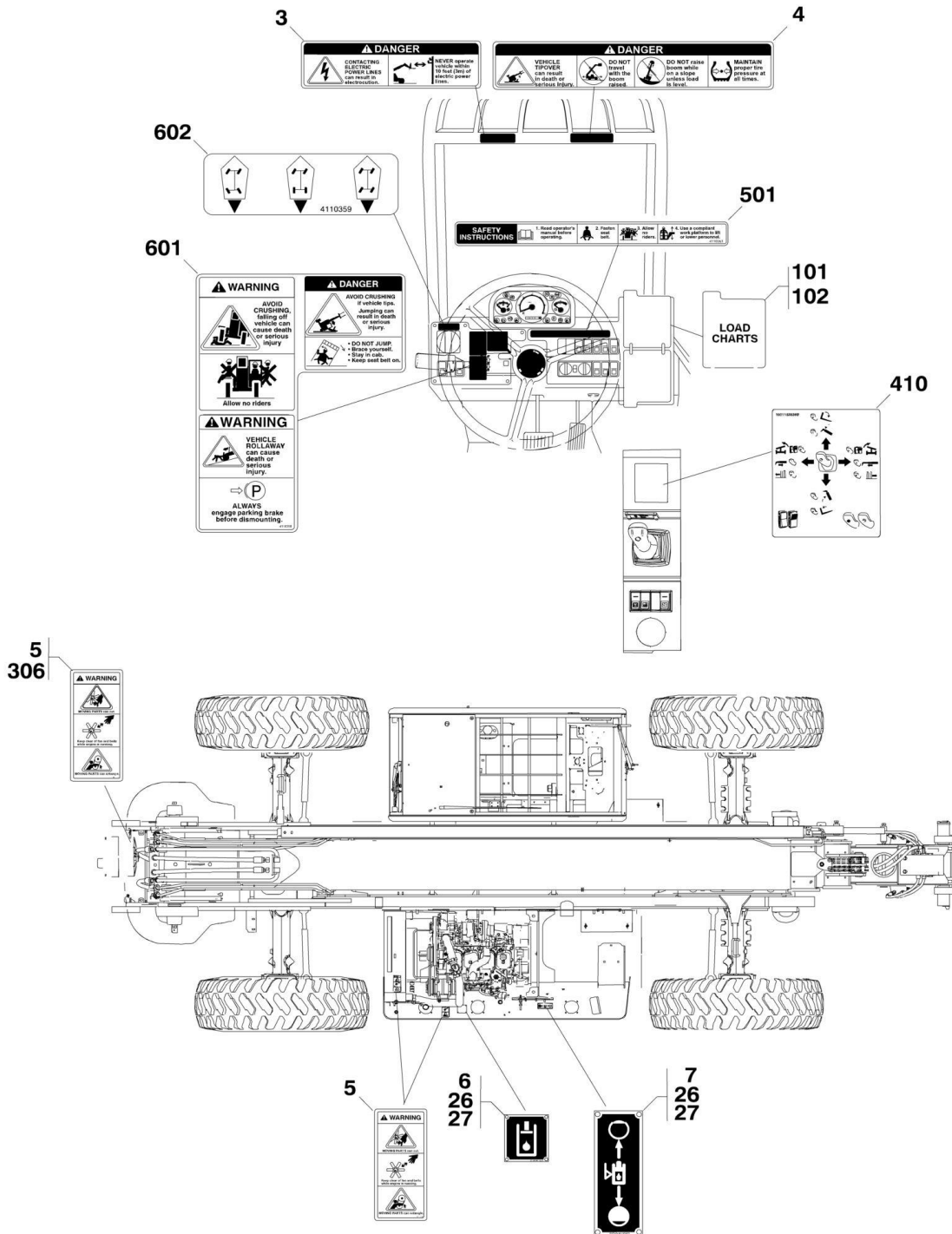
SECTION 11 - DECALS

FIGURE 11-1. DECALS



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SECTION 11 - DECALS



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SECTION 11 - DECALS

FIGURE 11-1. DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101730	Ref	DATA PLATES INSTALLATION	D
1		Ref	UNIVERSAL IDENTIFICATION PLATE	
2	2080023	4	METAL TACK	
3	4108991	1	ELECTROCUTION HAZARD DECAL	
4	4110137	1	TIP OVER HAZARD DECAL	
5	4110184	4	MOVING PARTS WARNING DECAL	
6	4110301	1	HYDRAULIC OIL FILL PLATE	
7	4110302	1	HYDRAULIC OIL LEVEL PLATE	
8	4110303	2	BATTERY HAZARD PLATE	
9	4110304	1	CARRYING PERSONNEL PLATE	
10	4110305	1	BOOM ANGLE INDICATOR PLATE	
11	1001113447	1	SHIPPING DATA PLATE	
12	4110308	1	LUBRICATION CHART DECAL	
13	4110462	1	FUSE LOCATION DECAL	
14	4110463	2	ETHER START WARNING DECAL	
15	1001112900	1	MAINTENANCE CHART DECAL	
16	4110468	1	COOLANT FILLING CAUTION DECAL	
17	6610002	1	ENGINE OIL SAMPLE PLATE	
18		Ref	MMV SERIAL NUMBER PLATE	
19		Ref	BOOM ANGLE INDICATOR POINTER, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
20	8302531	8	RIVET, POP, .125 DIA.	
21	8305624	3	LOCKNUT, 1/4-20	
22		Ref	LOCKNUT, 7/16-14, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
23		Ref	WASHER, 7/16, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
24	8309030	AR	METAL TACK	
25	8310026	3	HEX HD CAPSCREW, 1/4-20X3/4, (torque to 5.6-10 lb-ft)	
26	8310176	AR	METAL TACK	
27	8526042	AR	ADHESIVE, (apply to items 6 thru 11)	
28		Ref	EIRV SERIAL NUMBER PLATE	
29	1001112065	1	GOVERNMENT GROUND SUPPORT DECAL	
	1001114893	Ref	CARRIAGE WITH HYDRAULIC JIB LOAD CHART ASSY	B
101	1001115830	1	LOAD CHART STD. BOOKLET	
102	1001114820	1	CHART, DAILY CHECKLIST	B
	1001101731	Ref	ENHANCED VISIBILITY, T56 EIVR INSTALLATION	B
201	1001104421	AR	REFLECTIVE TAPE	
306	4110184	1	FAN WARNING DECAL	
410	1001103036	1	JOYSTICK DECAL	
501	4110361	1	SAFETY INSTRUCTIONS DECAL	
601	4110358	1	WARNING AND DANGER DECAL	
602	4110359	1	STEERING MODES DECAL	

SECTION 12 - RECOMMENDED SPARE PARTS

SECTION 12 - RECOMMENDED SPARE PARTS

FIGURE 12-1. RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note		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	
	7135413	AR	Wear Pad	
	7126172	AR	Shim, 0.13	
	7126182	AR	Shim, 0.07	
	7135432	AR	Insert, Wear Pad	
	7135442	AR	Spacer, 0.63	
	2716825	2	Tilt Cylinder Hose	
		Ref	Drive Train	
	1319726	1	Transmission Filter	
	1319433	4	Front/Rear Wheel End Bushing	
	7027211	4	Front/Rear Wheel End Seal	
	70021495	2	Front/Rear Axle Steer Cylinder Seal Kit	
	1319472	8	Front/Rear Wheel Hub Bearing	
	1321155	4	Front/Rear Axle Wheel Hub O-Ring	
	8223049	1	Transmission Control Selector	
		Ref	Engine	
	8320275	1	Engine Oil Filter	
	8272032	1	Suction Fan	
	6624021	1	50 Hour Filter Kit	
	8024051	1	250 Hour Filter Kit	
	8024052	1	1000 Hour Filter Kit	
	7028837	1	Fan Belt	
	8274022	1	In-line Fuel Filter	
	8320277		Fuel Filter	
	1101312	1	Primary Air Filter	
	1101313	1	Safety Air Filter	
		Ref	Hydraulic System	
	8036730	1	Lift/lower Cylinder Seal Kit	
	70020310	1	Extend/retract Cylinder Seal Kit	
	8035551	1	Tilt Cylinder Seal Kit	
	8036731	1	Slave Cylinder Seal Kit	
	8035326	1	Frame Tilt Cylinder Seal Kit	
	8036747	1	Stabil-trak Cylinder Seal Kit	
	8205825	1	Cylinder, 11k Side Shift Seal Kit	
	8320265	1	Hydraulic Oil Element Filter	
	8324029	1	Tank Strainer	
	8464013	1	Fluid Level Sight Gauge	
	8036387	1	Breather Cap Assy	
	6624021	1	50 Hour Filter Kit	
		Ref	Electrical	
	7028993	1	Starter	
	7060812	1	Fuel Level Sender	
	1001101465	1	Joystick Controller	

SECTION 12 - RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8223455	1	Keyless Ignition Switch	
	8270214	1	Alternator, 24V - 65 AMP	
	8270623	1	Horn	
	8223246	1	Engine Coolant Temperature Sender	
	1001099810	1	Backup Alarm	
		Ref	Misc	
	1001119236	1	Emergency Boom Lowering Kit	
	31200420	1	Operation and Safety Manual	
	31200421	1	Service Manual	

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