

SKYTRAK[®]

Illustrated Parts Manual

Models ***6036*** ***6042***

S/N 0160045066 & After
including 0160042742,
0160042747 & 0160042755

31200731

Original Issue
August 21, 2012

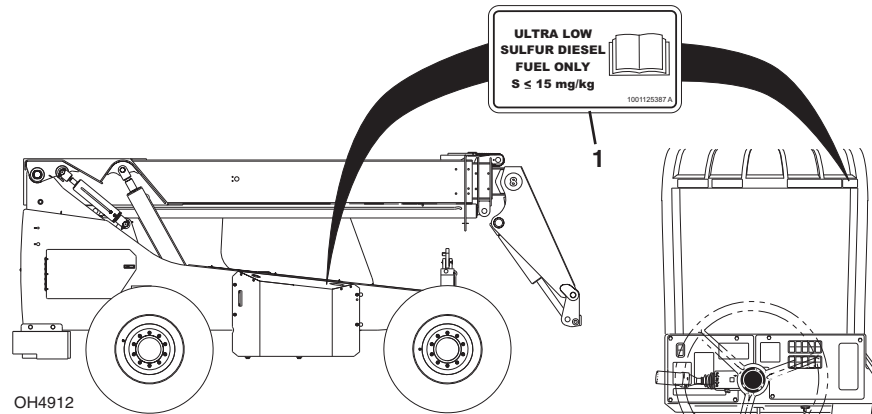
EFFECTIVITY PAGE

April 4, 2012 - A - Original Issue of Manual

August 21, 2012 - B - Revised Manual.

EFFECTIVITY PAGE

Machine Configuration



Two configurations of each machine are included in this manual. Determine if machine is equipped with Ultra Low Sulfur Fuel Decal (1).

If equipped with the Ultra Low Sulfur decal, all specific references to this machine configuration will be referred to as Ultra Low Sulfur (**ULS**) from this point forward.

If not equipped with the Ultra Low Sulfur decal, all specific references to this machine configuration will be referred to as Low Sulfur (**LS**) from this point forward.

General Information

1. MACHINE IDENTIFICATION

Machines are identified by model and in some cases a combination of model, serial number (S/N) or regional standard (CE, AUS, ANSI). Components may also be identified by S/N or manufacturer. Common components that may be identified by these characteristics are attachments, engine, transmission and hydraulic components.

2. PARTS MANUAL ORGANIZATION

Product information in this manual is organized under section titles. Frame & Attaching Parts, Drive Train and Electrical are a few examples. Each section is organized by Figure and page number. The information within the Figure is then organized by item number, part number, description and corresponding illustration(s).

3. TABLE OF CONTENTS

A table of contents (TOC) is found toward the beginning of the manual. Figure number, description and page number are provided for quick reference to the page containing the related information.

4. RECOMMENDED SPARE PARTS

The Recommended Spare Parts, located near the end of the manual, references most frequently used maintenance parts.

5. PART NUMBER INDEX

A numerical index listing all part numbers and the corresponding page number(s) appears at the back of the manual.

6. NON-SERVICED PARTS

In some instances it is necessary to display non-serviced parts, assemblies or installations. In the case of assemblies and installations there will be a Ref in the Qty column and a note after the item description stating what is available for service within. In the case of parts that are not available for service within assemblies or components there will be a NSS (Not Sold Separately) listed in the part number column of the manual.

7. PARTS LIST ITEM NUMBERS

Numbers shown in the Item column correspond to numbers used in the associated illustration(s). Item numbers which are missing from sequence and are not shown in the illustration(s) are not used on that page.

8. INDENTED PART DESCRIPTION

An indented part description is included in the item under which it is indented.

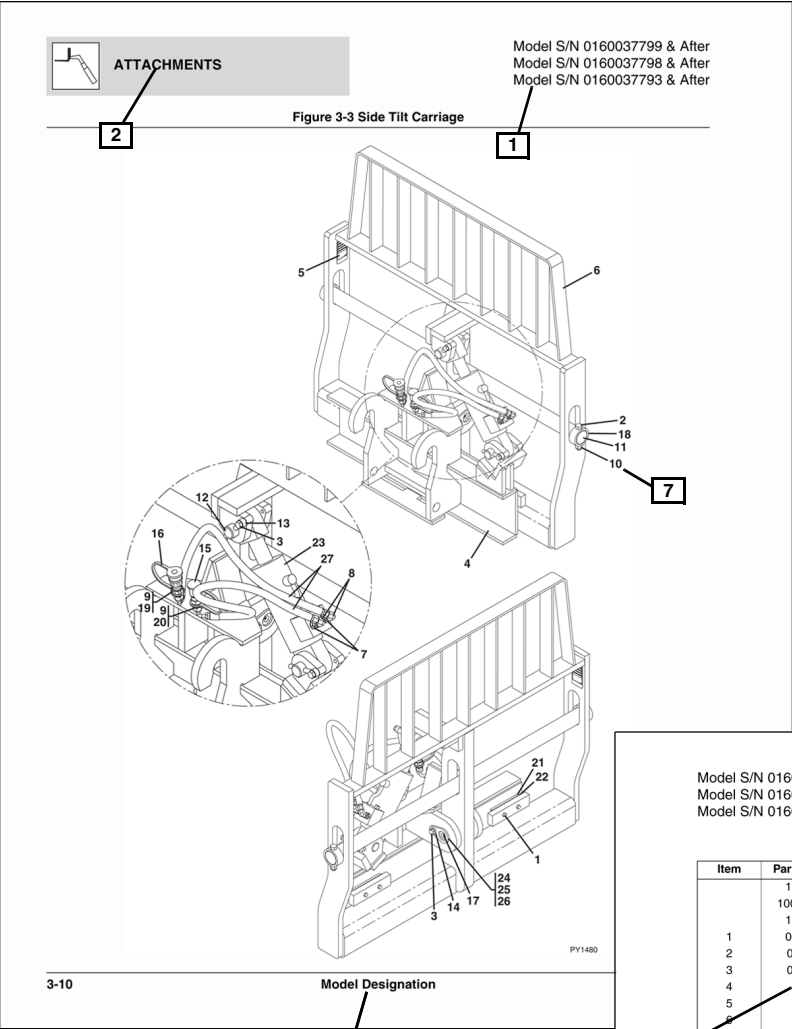
9. ABBREVIATIONS AND SYMBOLS

AC	Air Conditioning	LB	Pound
ANSI	American National Standards Institute	LH	Left Hand
AR	As Required	LS	Low Sulfur
ASME	American Society of Mechanical Engineers	MAX	Maximum
ASSY	Assembly	MM	Millimeter
AUS	Australia	N	Newton
AUX	Auxiliary	NA	Not Applicable
CE	European Conformity	NLA	No Longer Available
DIA	Diameter	NSS	Not Sold Separately
EURO	European	OD	Outside Diameter
FT	Foot	OZ	Ounce
GA	Gauge	P/N	Part Number
GR	Grade	QTY	Quantity
HD	Head	REF	Reference
HYD	Hydraulic	REQ	Required
ID	Inside Diameter	RH	Right Hand
IN	Inch	S/N	Serial Number
ISO	International Organization for Standards	SAE	Society of Automotive Engineers
ITSDF	Industrial Truck Standards Development Foundation	STD	Standard
KG	Kilogram	ULS	Ultra Low Sulfur
kW	Kilowatt	V	Volt

10. ILLUSTRATION REFERENCE LETTERS

When necessary, illustrations may contain reference letters that are intended to track information from one point to another in the illustration such as harnesses and hoses or any other information that has been separated in the illustration.

Note: Due to continuous product improvements, JLG Industries, Inc. reserves the right to make specification changes without prior notification. Contact JLG Industries, Inc. for updated information.



Model S/N 0160037799 & After
Model S/N 0160037798 & After
Model S/N 0160037793 & After

ATTACHMENTS

Figure 3-3 Side Tilt Carriage

Item	Part Number	Qty.	Description	Rev.
	1170054	1	50 IN SIDE TILT CARRIAGE, (includes all items)	C
	1001101956	1	60 IN SIDE TILT CARRIAGE, (includes all items)	C
	1170057	1	72 IN SIDE TILT CARRIAGE, (includes all items)	C
1	0641612	4	HEX HD CAPSCREW, 3/8-16X1-1/2	
2	0642032	2	HEX HD CAPSCREW, 5/8-11X4	
3	0681810	3	HEX HD CAPSCREW, 1/2-13X1-1/4	
4	NSS	1	CARRIAGE BASE	
5	NSS	1	S/N PLATE	
6	NSS	1	CARRIAGE, SIDE TILT	
7	2110606	2	CONNECTOR	
8	2172106	2	CONNECTOR, 90 DEGREES	
9	2110808	2	CONNECTOR	
10	3300240	2	LOCK NUT, 5/8-11	
11	3423275	1	50 IN FORK PIN	
	3423242	1	60 IN FORK PIN	
	3423276	1	72 IN FORK PIN	
12	3423307	2	PIN	
13	3841203	2	KEEPER	
14	4891800	1	WASHER, 1/2	
15	8420053	1	DUST CAP	
16	8420055	1	DUST PLUG	
17	88671001	1	GREASE FITTING	
18	90200003	2	COLLAR	
19	91403413	1	CONNECTOR	
20	91403414	1	CONNECTOR	
21	1001090063	2	WEAR PAD	
22	1001090064	A/R	SHIM	
23		Ref	HYDRAULIC CYLINDER, (see Figure 9-12 for details)	
24	1001090140	1	BEARING	
25	1001099113	1	PIN	
26	1001099115	2	SLEEVE	
27	1001102378	2	HOSE ASSY, 3/8X39	

XXXXXXX

Model Designation

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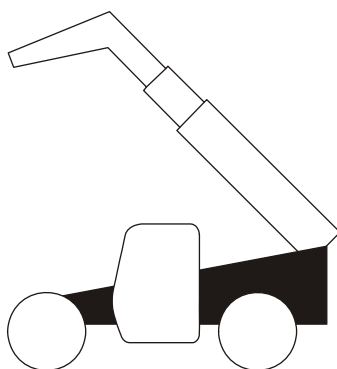
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SECTION 1

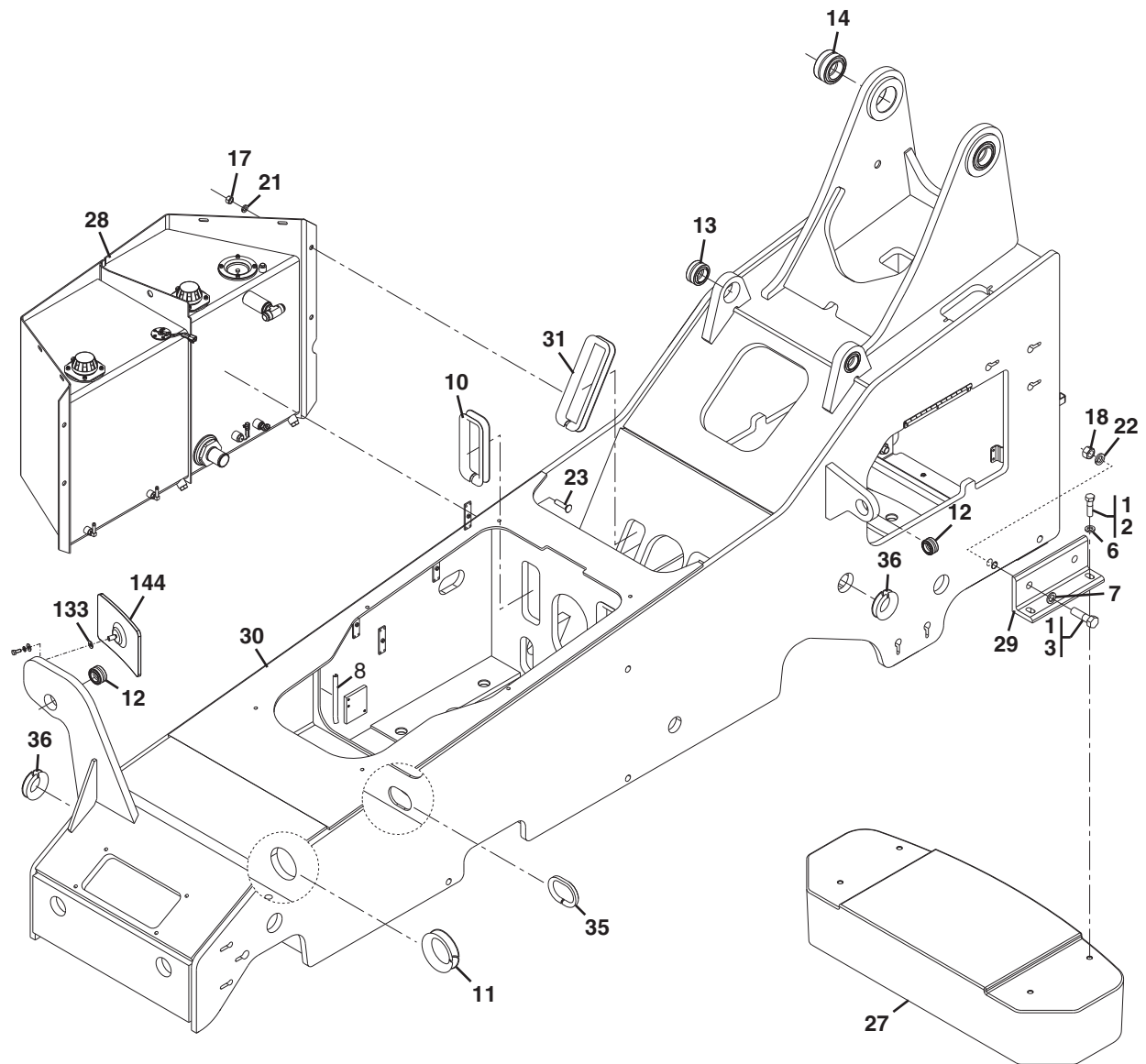
FRAME & ATTACHING PARTS





FRAME & ATTACHING PARTS

Figure 1-1 Frame & Attaching Parts



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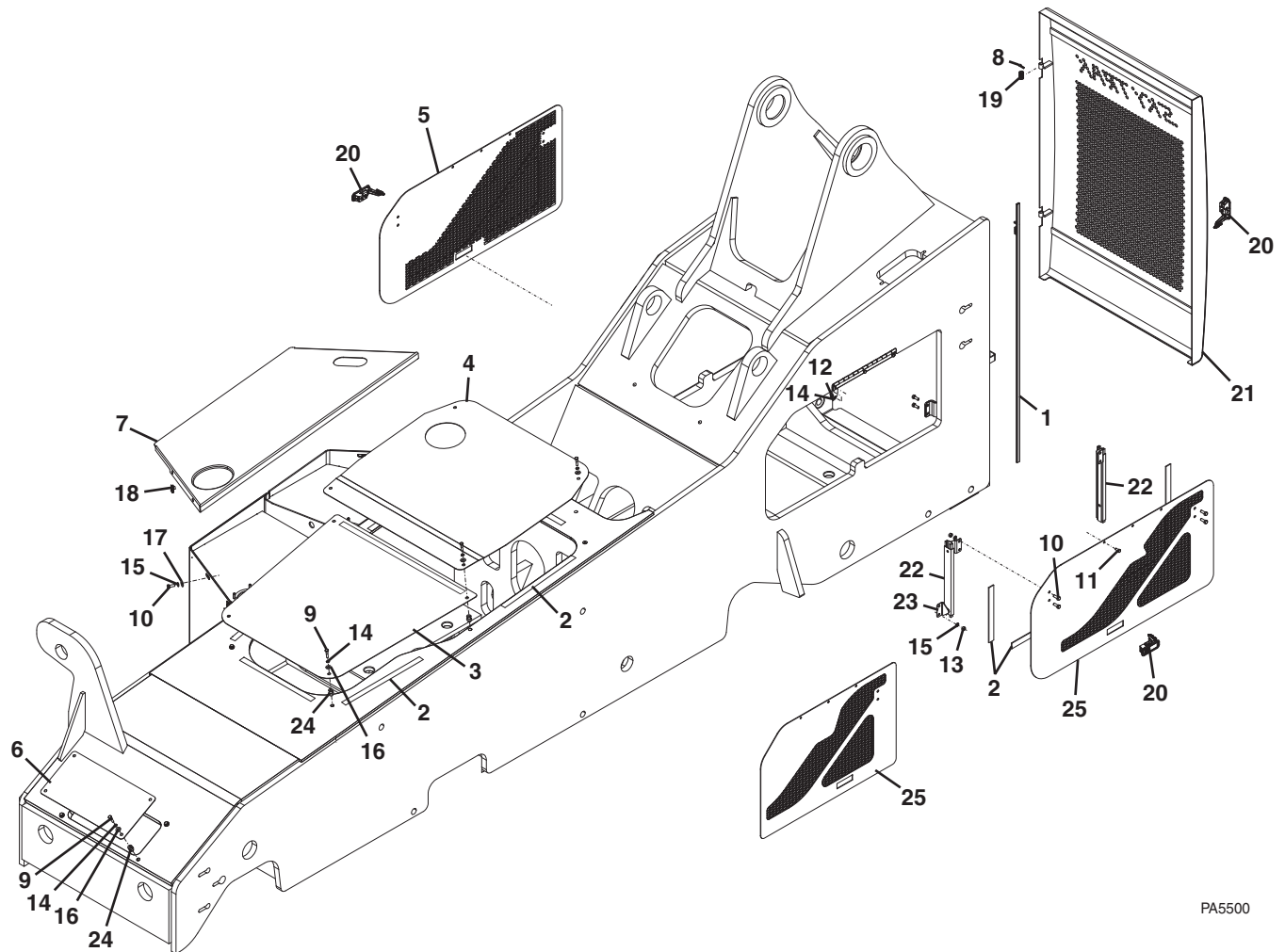

Figure 1-1 Frame & Attaching Parts

Item	Part Number	Qty.	Description	Rev.
	1001121408	Ref	FRAME INSTALLATION, (6036) , (not available to order, see items 1 thru 36 for service)	A
	1001121444	Ref	FRAME INSTALLATION, (6042) , (not available to order, see items 1 thru 36 for service)	A
1	0100019	AR	LOCTITE® 271™	
2	0642222	4	HEX HD CAPSCREW, 3/4-10X2-3/4, GR5, (torque to 285 lb-ft)	
3	0642628	4	HEX HD CAPSCREW, 1-8X3 1/2, GR5, (torque to 675 lb-ft)	
6	4892200	4	HARDENED WASHER, 3/4	
7	4892600	2	HARDENED WASHER, 1	
8	7125871	AR	CONDUIT, 0.50X8, (cut to fit)	
9	7137142	4	CYLINDER PIN	
10	7139156	AR	CONDUIT, 1.0X28, (cut to fit)	
11	7139613	AR	CONDUIT, 1.0X18, (cut to fit)	
12	8050001	2	BEARING, (self align)	
13	8065640	2	BEARING, (self align)	
14	8065641	2	BEARING, (self align)	
15	8303752	4	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	
16	8303782	4	HEX HD CAPSCREW, 1/2-13X4, GR5	
17	8305014	4	HEX NUT, 5/8-11	
18	8305021	4	HEX NUT, 1-8	
19	8305626	4	HEX LOCKNUT, 5/16-18	
20	8305644	4	HEX LOCKNUT, 1/2-13,	
21	8307009	4	LOCKWASHER, 5/8	
22	8307012	4	LOCKWASHER, 1	
23	8310129	4	CARRIAGE BOLT, 5/8-11X2-1/2, (torque to 150 lb-ft)	
24	8520001	2	LUBE FITTING, STRAIGHT, 1/8	
27	1001094784	1	COUNTERWEIGHT, (6036)	
	1001094783	1	COUNTERWEIGHT, (6042)	
28		Ref	FUEL & HYDRAULIC TANK, (see Figure 9-12 for details)	
29	1001114112	2	ANGLE COUNTWEIGHT	
30	NSS	1	FRAME WELDMENT	
31	1560028	2	CONDUIT, 1.0 POLY	
35	7124301	AR	CONDUIT, 0.50X15.5, (cut to fit)	
36	7124471	AR	CONDUIT, 1.0X12.5, (cut to fit)	
133	4791500	1	STAR WASHER, 5/16	
144	8866348	1	CONVEX RIGHT SIDE MIRROR ASSEMBLY	



FRAME & ATTACHING PARTS

Figure 1-2 Covers



PA5500


Figure 1-2 Covers

Item	Part Number	Qty.	Description	Rev.
	1001099496	Ref	FRAME COVERS INSTALLATION, (6036) , (not available to order, see items 1 thru 25 for service)	D
	1001099497	Ref	FRAME COVERS INSTALLATION, (6042) , (not available to order, see items 1 thru 25 for service)	E
1	90206196	AR	TRIM	
2	4420037	AR	FOAM TAPE - 60 IN, (222 is needed)	
	4420037	AR	FOAM TAPE - 60 IN, (214 is needed)	
3	7139406	1	LOWER TRANSMISSION COVER	
4	7139455	1	UPPER TRANSMISSION COVER	
5	1001131244		SIDE ACCESS COVER, (right)	
6	7150608	1	FRONT COVER	
7	7150661	1	FUEL/HYDRAULIC TANK COVER	
8	8302470	2	COTTER PIN	
9	8303615	10	HEX HD CAPSCREW, 1/4-20X1-1/4	
10	8303656	16	HEX HD CAPSCREW, 5/16-18X7/8	
11	8303729	6	HEX HD CAPSCREW, 1/4-20X5/8	
12	8305004	6	HEX NUT, 1/4-20	
13	8305006	12	HEX NUT, 0.325	
14	8307002	16	LOCKWASHER, 1/4	
15	8307004	16	LOCKWASHER, 5/16	
16	8307202	10	PLAIN WASHER, 1/4	
17	8307203	4	FLAT WASHER, 5/16	
18	8310658	4	RETAINING NUT, 5/16	
19	10732150	AR	FLAT WASHER, M10	
20	1001131179	3	LATCH ASSY, WITH LOCK & KEY	
	8342808	AR	KEY SET	
21	1001131246	1	REAR ACCESS DOOR	
22	7139714	2	SIDE DOOR PROP	
23	7139714	2	SIDE DOOR PROP	
24	8580420	10	WELL NUT	
25	1001131243	1	SIDE DOOR PANEL, (6036) , (left)	
	1001131334	1	SIDE DOOR PANEL, (6042) , (left)	

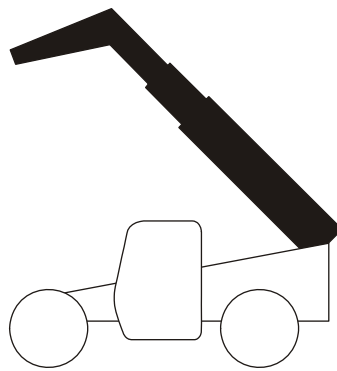


FRAME & ATTACHING PARTS

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SECTION 2

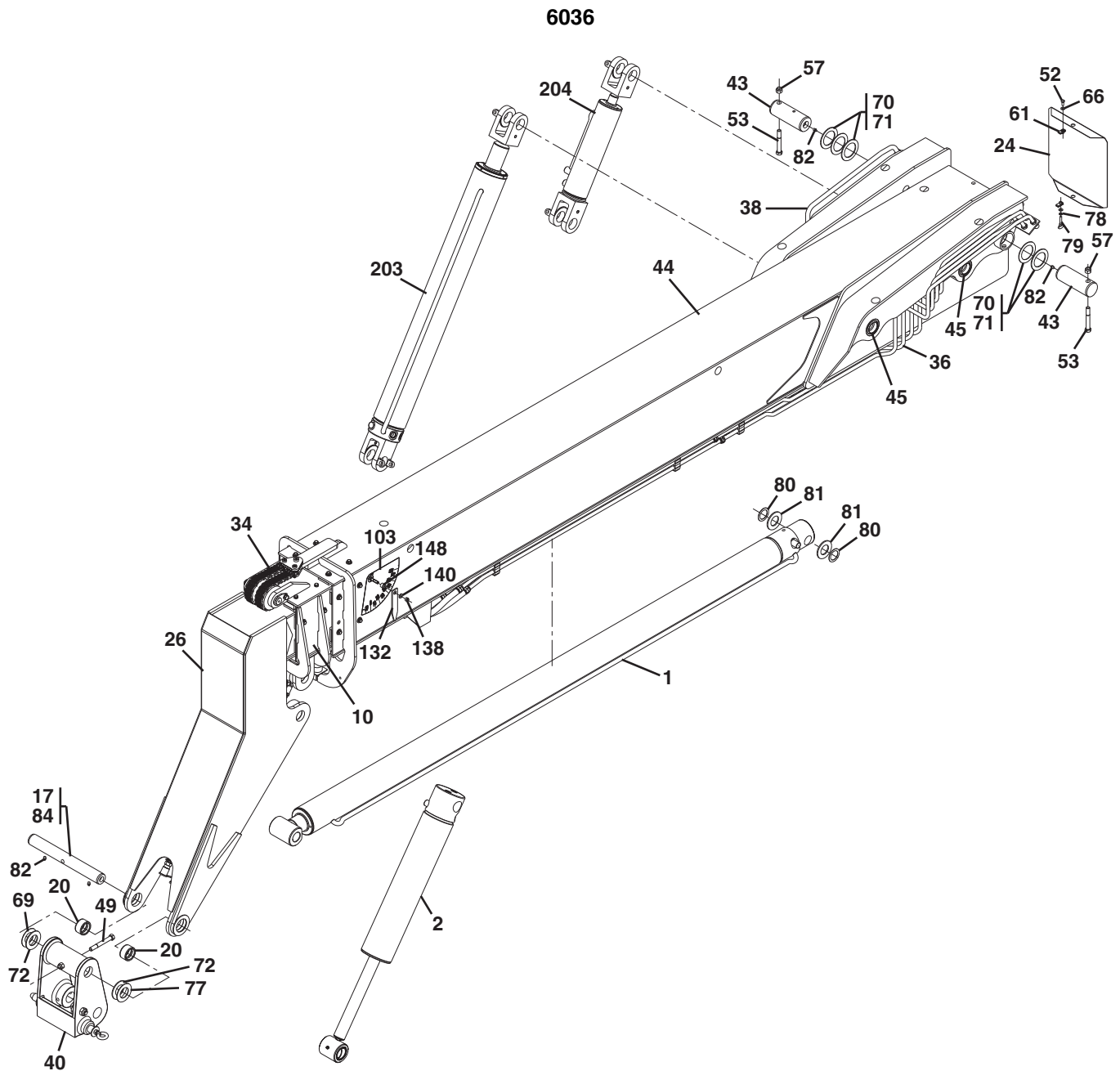
BOOM





BOOM

Figure 2-1 Boom Installation



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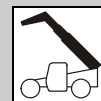


Figure 2-1 Boom Installation

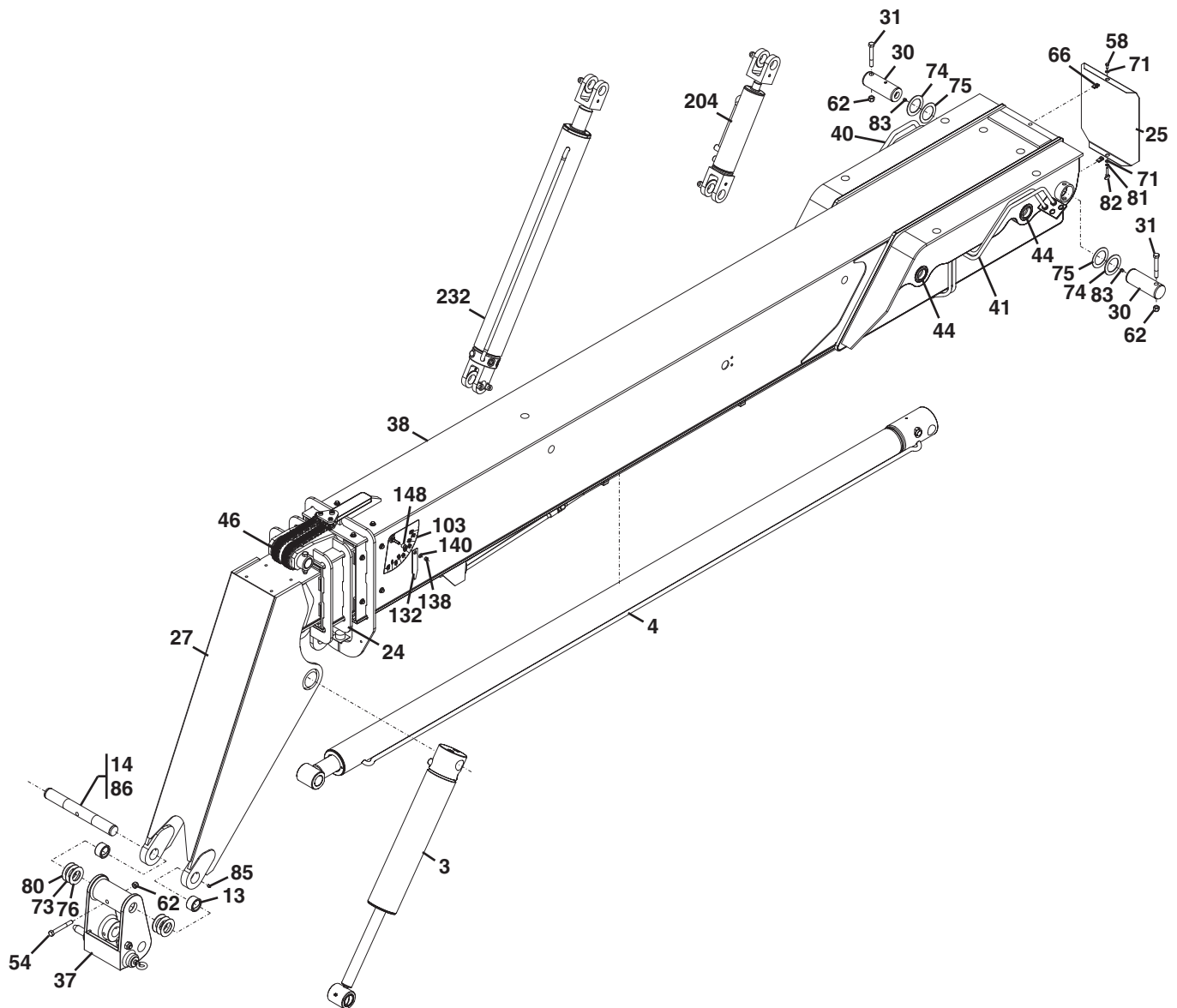
Item	Part Number	Qty.	Description	Rev.
	7302055	Ref	BOOM INSTALLATION, (6036), (includes all items)	J
1		Ref	EXTEND CYLINDER & MOUNTING HARDWARE, (see Figure 9-2 for details)	
2		Ref	FORK TILT CYLINDER & MOUNTING HARDWARE, (see Figure 9-3 for details)	
10		Ref	SECOND BOOM SECTION, (see Figure 2-3 for details)	
17	7083922	1	CARRIAGE PIVOT PIN	
20	7085542	2	QUICK ATTACH PIVOT BUSHING	
24	7116822	1	OUTER BOOM COVER	
26		Ref	FIRST BOOM SECTION, (see Figure 2-2 for details)	
34		Ref	BOOM CHAIN ASSY, (see Figure 2-6 for details)	
36		Ref	TILT CYLINDER HYDRAULICS, (see Figure 8-7 for details)	
38		Ref	EXTEND CYLINDER HYDRAULICS, (see Figure 8-6 for details)	
40		Ref	QUICK ATTACH ASSEMBLY, (see Figure 2-5 for details)	
43	3423226	2	BOOM PIVOT PIN	
44		Ref	THIRD BOOM SECTION, (see Figure 2-4 for details)	
45	8065640	4	SELF ALIGN BEARING	
49	8303666	1	HEX HD CAPSCREW, 5/8-11X5, GR5	
52	8303697	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
53	8303655	2	HEX HD CAPSCREW, 5/8-11X4-1/2	
57	8305643	3	HEX LOCKNUT, 5/8-11	
61	8305906	2	NUT RETAINER, 5/16-18	
66	8307106	2	WASHER, 5/16	
69	8307904	AR	SHIM WASHER, 2.0	
70	8307910	AR	SHIM WASHER, 2-3/4	
71	8307911	AR	SHIM WASHER, 2-3/4	
72	8307918	AR	SHIM WASHER, 2.0	
77	8310093	AR	SHIM WASHER, 2.0	
78	8310431	1	LOCKWASHER, 5/16	
79	8310497	1	THUMB SCREW, 5/16-18X1-1/2	
80	8310708	2	WASHER	
81	8310712	2	SHIM	
82	8520001	3	LUBE FITTING, STRAIGHT	
89	8642234	4	RETAINING RING	
103		Ref	BOOM ANGLE INDICATOR DECAL, (see Figure 11-2 for details)	
132	1001098769	1	BOOM ANGLE INDICATOR PLATE	
138	8305645	1	LOCKNUT, 0.375-16	
140	4711600	1	WASHER, 3/8	
148	1001096404	1	ANGLE INDICATOR SPACER SLEEVE	
203		Ref	LIFT CYLINDER & MOUNTING HARDWARE, (see Figure 9-1 for details)	
204		Ref	TILT COMPENSATION CYLINDER & MOUNTING HARDWARE, (see Figure 9-4 for details)	



BOOM

Figure 2-1 Boom Installation

6042



PA5300

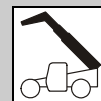


Figure 2-1 Boom Installation

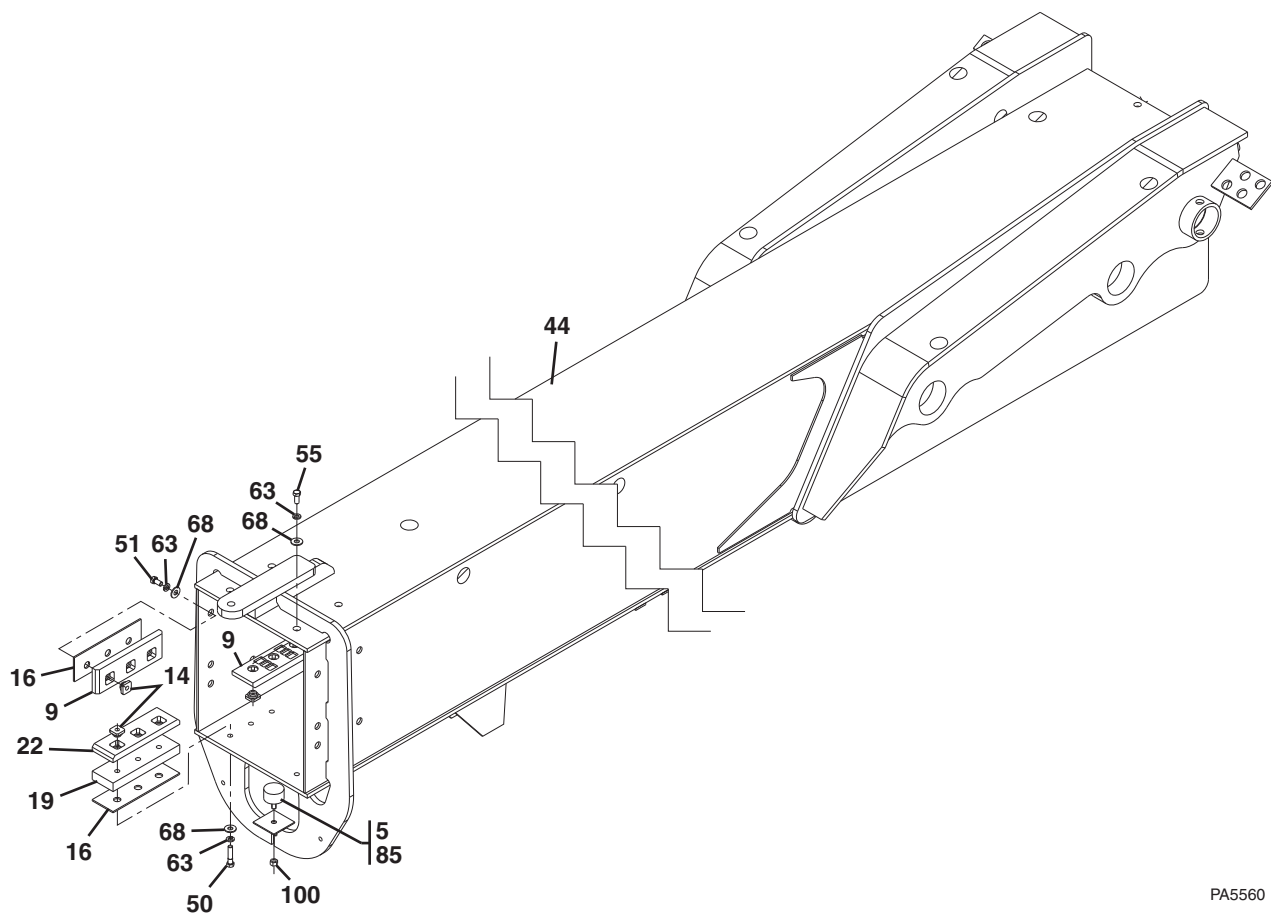
Item	Part Number	Qty.	Description	Rev.
3	7302051	Ref	BOOM INSTALLATION, (6042), (includes all items)	H
		Ref	FORK TILT CYLINDER & MOUNTING HARDWARE, (see Figure 9-3 for details)	
4		Ref	EXTEND CYLINDER & MOUNTING HARDWARE, (see Figure 9-2 for details)	
13	7095312	2	QUICK ATTACH PIVOT BUSHING	
14	7095352	1	CARRIAGE PIVOT PIN	
24		Ref	SECOND BOOM SECTION, (see Figure 2-3 for details)	
25	7116792	1	OUTER BOOM COVER	
27		Ref	THIRD BOOM SECTION, (see Figure 2-4 for details)	
30	3423226	2	BOOM PIVOT PIN	
31	8303655	2	HEX HD CAPSCREW, 5/8-11X4-1/2	
37		Ref	QUICK ATTACH ASSEMBLY, (see Figure 2-5 for details)	
38		Ref	FIRST BOOM SECTION, (see Figure 2-2 for details)	
40		Ref	EXTEND CYLINDER HYDRAULICS, (see Figure 8-6 for details)	
41		Ref	TILT CYLINDER HYDRAULICS, (see Figure 8-7 for details)	
44	8065640	4	SELF ALIGN BEARING	
46		Ref	BOOM CHAIN ASSEMBLY, (see Figure 2-6 for details)	
54	8303666	1	HEX HD CAPSCREW, 5/8-11X5, GR5	
58	8303697	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
62	8305643	3	HEX LOCKNUT, 5/8-11	
66	8305906	2	NUT RETAINER, 5/16-18	
71	8307106	2	WASHER, 5/16	
73	8307904	AR	SHIM WASHER, 2.0	
74	8307910	AR	SHIM WASHER, 2-3/4	
75	8307911	AR	SHIM WASHER, 2-3/4	
76	8307918	AR	SHIM WASHER, 2.0	
80	8310093	AR	SHIM WASHER, 2.0	
81	8310431	1	LOCKWASHER, 5/16	
82	8310497	1	THUMB SCREW, 5/16-18X1-1/2	
83	8520001	3	LUBE FITTING, STRAIGHT	
85	8520013	2	LUBE FITTING, STRAIGHT	
103		Ref	BOOM ANGLE INDICATOR DECAL, (see Figure 11-2 for details)	
132	1001098769	1	BOOM ANGLE INDICATOR PLATE	
138	8305645	1	LOCKNUT, 0.375-16	
140	4711600	1	WASHER, 3/8	
148	1001096404	1	ANGLE INDICATOR SPACER SLEEVE	
204		Ref	TILT COMPENSATING CYLINDER & MOUNTING HARDWARE, (see Figure 9-4 for details)	
232		Ref	LIFT CYLINDER & MOUNTING HARDWARE, (see Figure 9-1 for details)	



BOOM

Figure 2-2 First Boom Section

6036



PA5560



Figure 2-2 First Boom Section

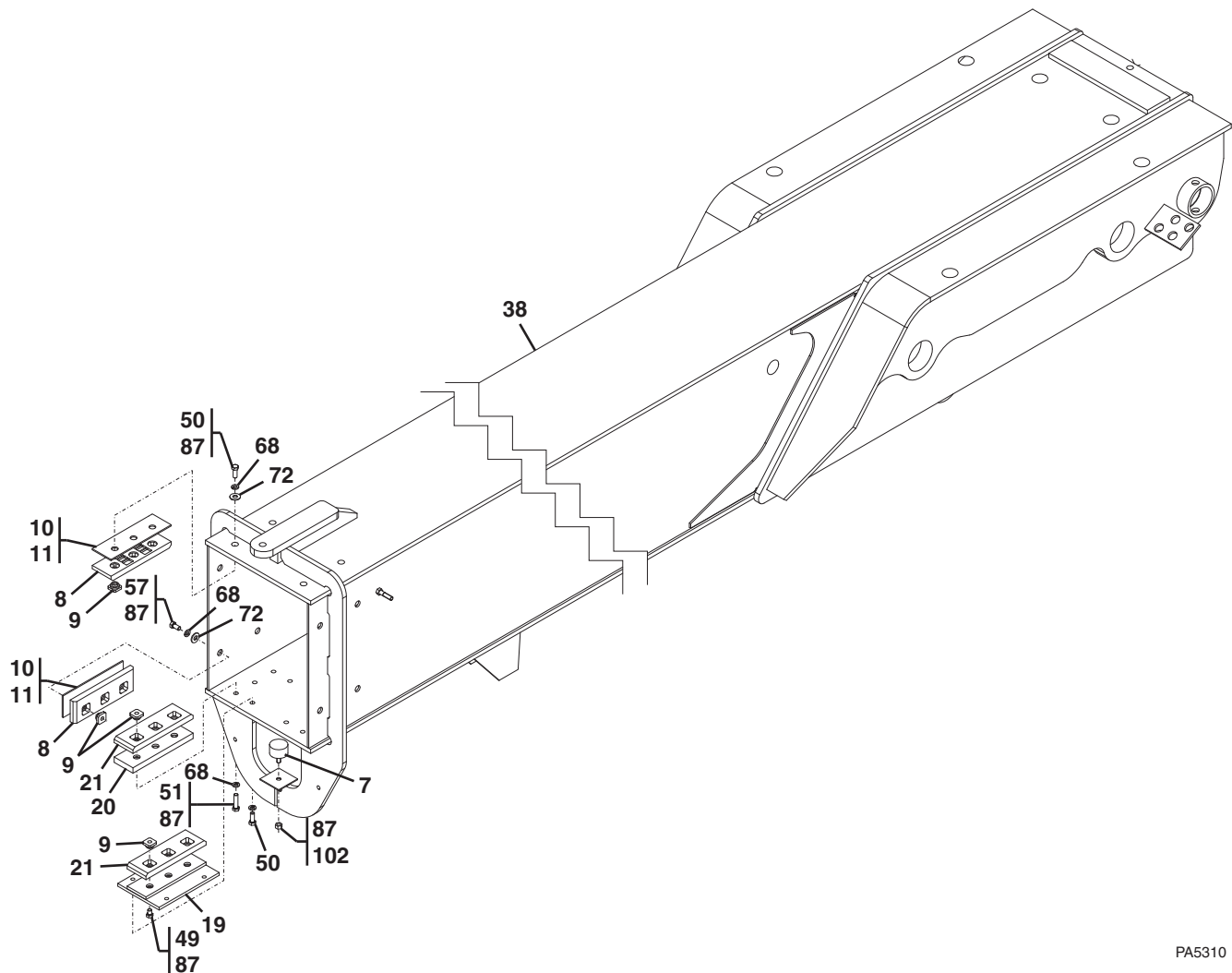
Item	Part Number	Qty.	Description	Rev.
5	5724622	1	RUBBER BUMPER	
9	7079572	6	MOLDED WEAR PAD	
14	7082311	18	WEAR PAD INSERT	
16	7082362	6	WEAR PAD SHIM, 0.134	
19	7085442	2	WEAR PAD SPACER, 0.88	
22	7111572	2	HIGH CAPACITY WEAR PAD	
44	7302056	1	FIRST BOOM SECTION	
50	8303679	6	HEX HD CAPSCREW, 3/8-16X1.75, GR5	
51	8303681	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
55	8303738	4	HEX HD CAPSCREW, 3/8-16X0.875, GR5	
63	8307005	18	LOCKWASHER, 0.375	
68	8307204	18	WASHER, 3/8	
85	8526007	AR	THREADLOCK	
100	3311601	1	HEX NUT, 3/8-16	
N1	Note	Ref	SHIM PADS WITH SPACERS TO MAINTAIN A TOTAL MINIMUM GAP OF 0.07 TO 0.13 INCHES ON BOTH HORIZONTAL AND VERTICAL DIRECTIONS.	
N2	Note	Ref	APPLY THREADLOCKING COMPOUND (8526007) TO ALL SLIDE PAD SCREWS AND TORQUE TO 28-34 LB-FT, (37.9-46.0 Nm).	
N3	Note	Ref	ALL SLIDE PATHWAYS TO BE FREE OF PROJECTIONS. CHECK PATHWAYS ON UNDERSIDES OF INNER AND INTERMEDIATEBOOMS BY SCRAPING WITH SQUARE EDGE OF WEAR PAD SHIM. SCRAPER MUST NOT SNAG.	
N4	Note	Ref	COAT ALL UNPLATED SHOULDER BOLTS WITH ANTI-SIEZE LUBE (8522012) AND PROTECT HEADS AND THREAD ENDS OF EXTERIOR BOLTS WITH VARNISH (8526406).	



BOOM

Figure 2-2 First Boom Section

6042



PA5310

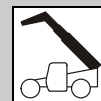


Figure 2-2 First Boom Section

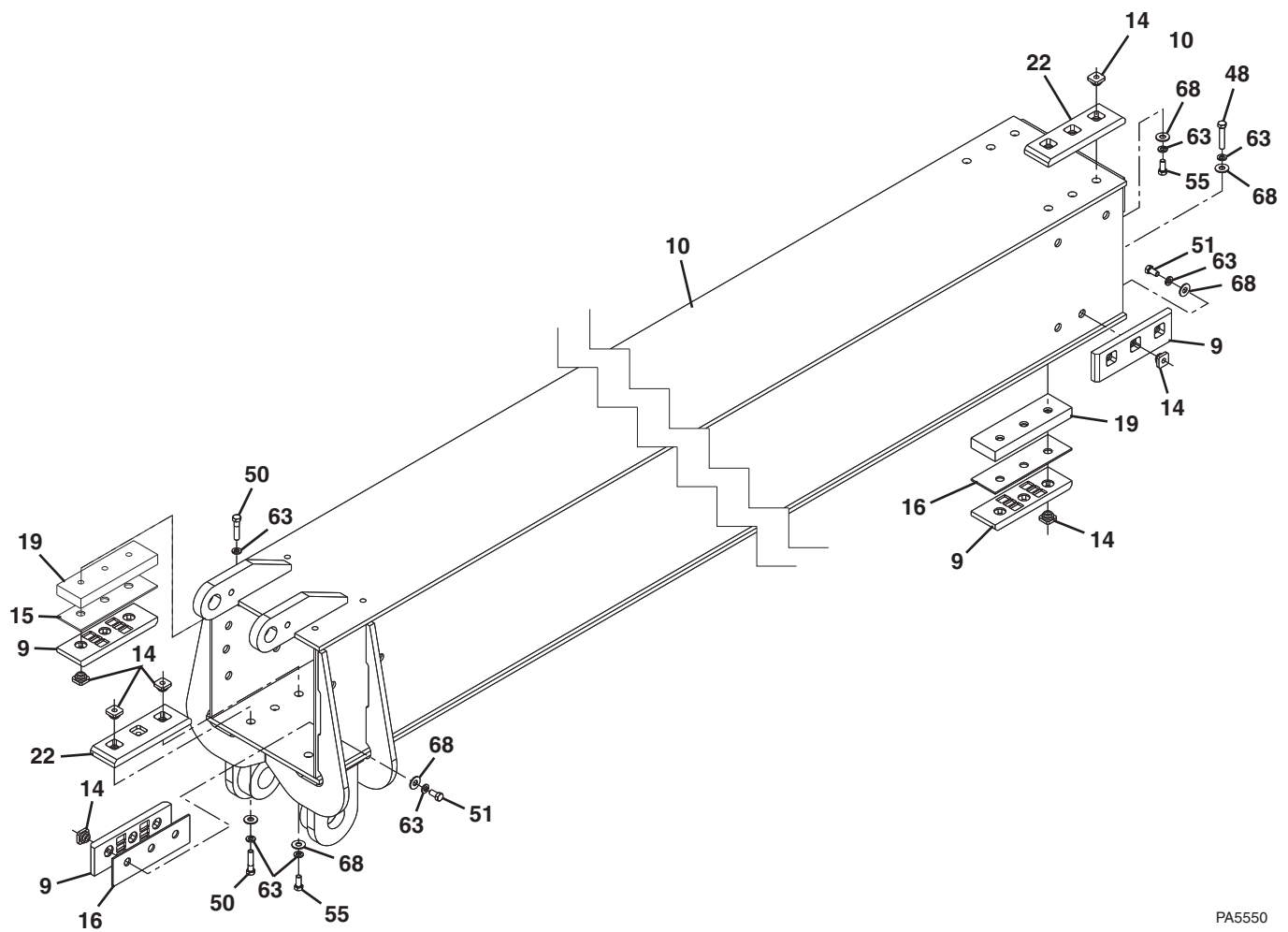
Item	Part Number	Qty.	Description	Rev.
7	5724622	1	RUBBER BUMPER	
8	7079572	6	MOLDED WEAR PAD	
9	7082311	21	WEAR PAD INSERT	
10	7082342	AR	WEAR PAD SHIM, 0.075	
11	7082362	AR	WEAR PAD SHIM, 0.134	
19	7096772	1	SPECIAL WEAR PAD SPACER	
20	7096882	2	WEAR PAD SPACER	
21	7111572	3	HIGH CAPACITY WEAR PAD	
38	7302052	1	FIRST SECTION BOOM	
49	8303041	3	HEX HD CAPSCREW, 3/8-16X1/2. GR5, (Loctite® & torque to 28-34 lb-ft)	
50	8303620	10	HEX HD CAPSCREW, 3/8-16X1, GR5, (Loctite® & torque to 28-34 lb-ft)	
51	8303621	6	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5, (Loctite® & torque to 28-34 lb-ft)	
57	8303681	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (Loctite® & torque to 28-34 lb-ft)	
68	8307005	22	LOCKWASHER, 3/8	
72	8307204	12	WASHER, 3/8	
87	8526007	AR	THREAD LOCKING COMPOUND	
102	3311601	1	HEX NUT, 3/8-16	
N1	Note	Ref	SHIM PADS WITH SPACERS TO MAINTAIN A TOTAL MINIMUM GAP OF 0.07 TO 0.13 INCHES ON BOTH HORIZONTAL AND VERTICAL DIRECTIONS.	
N2	Note	Ref	APPLY THREADLOCKING COMPOUND (8526007) TO ALL SLIDE PAD SCREWS AND TORQUE TO 28-34 LB-FT, (37.9-46.0 Nm).	
N3	Note	Ref	ALL SLIDE PATHWAYS TO BE FREE OF PROJECTIONS. CHECK PATHWAYS ON UNDERSIDES OF INNER AND INTERMEDIATEBOOMS BY SCRAPING WITH SQUARE EDGE OF WEAR PAD SHIM. SCRAPER MUST NOT SNAG.	
N4	Note	Ref	COAT ALL UNPLATED SHOULDER BOLTS WITH ANTI-SIEZE LUBE (8522012) AND PROTECT HEADS AND THREAD ENDS OF EXTERIOR BOLTS WITH VARNISH (8526406).	



BOOM

Figure 2-3 Second Boom Section

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PA5550



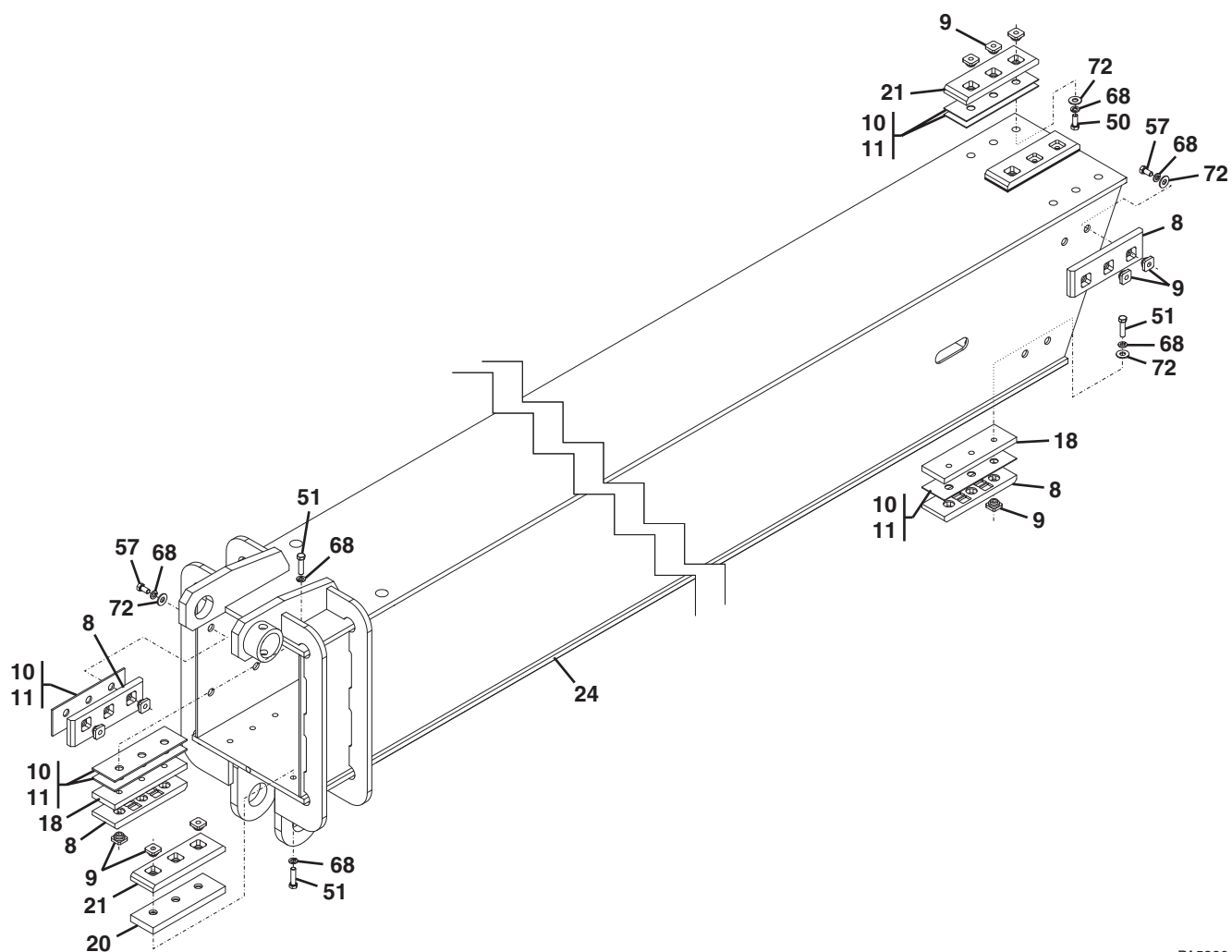
Figure 2-3 Second Boom Section

Item	Part Number	Qty.	Description	Rev.
9	7079572	11	MOLDED WEAR PAD	
10	7080244	1	SECOND BOOM SECTION	
14	7082311	36	WEAR PAD INSERT	
15	7082342	2	WEAR PAD SHIM, 0.075	
16	7082362	9	WEAR PAD SHIM, 0.134	
19	7085442	3	WEAR PAD SPACER, 0.88	
22	7111572	4	HIGH CAPACITY WEAR PAD	
48	8303657	2	HEX HD CAPSCREW, 3/8-16X2.00, GR5	
50	8303679	8	HEX HD CAPSCREW, 3/8-16X1.75, GR5	
51	8303681	16	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
55	8303738	8	HEX HD CAPSCREW, 3/8-16X0.875, GR5	
63	8307005	34	LOCKWASHER, 0.375	
68	8307204	30	WASHER, 3/8	
N1	Note	Ref	SHIM PADS WITH SPACERS TO MAINTAIN A TOTAL MINIMUM GAP OF 0.07 TO 0.13 INCHES ON BOTH HORIZONTAL AND VERTICAL DIRECTIONS.	
N2	Note	Ref	APPLY THREADLOCKING COMPOUND (8526007) TO ALL SLIDE PAD SCREWS AND TORQUE TO 28-34 LB-FT, (37.9-46.0 Nm).	
N3	Note	Ref	ALL SLIDE PATHWAYS TO BE FREE OF PROJECTIONS. CHECK PATHWAYS ON UNDERSIDES OF INNER AND INTERMEDIATEBOOMS BY SCRAPING WITH SQUARE EDGE OF WEAR PAD SHIM. SCRAPER MUST NOT SNAG.	
N4	Note	Ref	COAT ALL UNPLATED SHOULDER BOLTS WITH ANTI-SIEZE LUBE (8522012) AND PROTECT HEADS AND THREAD ENDS OF EXTERIOR BOLTS WITH VARNISH (8526406).	



Figure 2-3 Second Boom Section

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PA5320

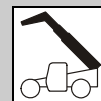


Figure 2-3 Second Boom Section

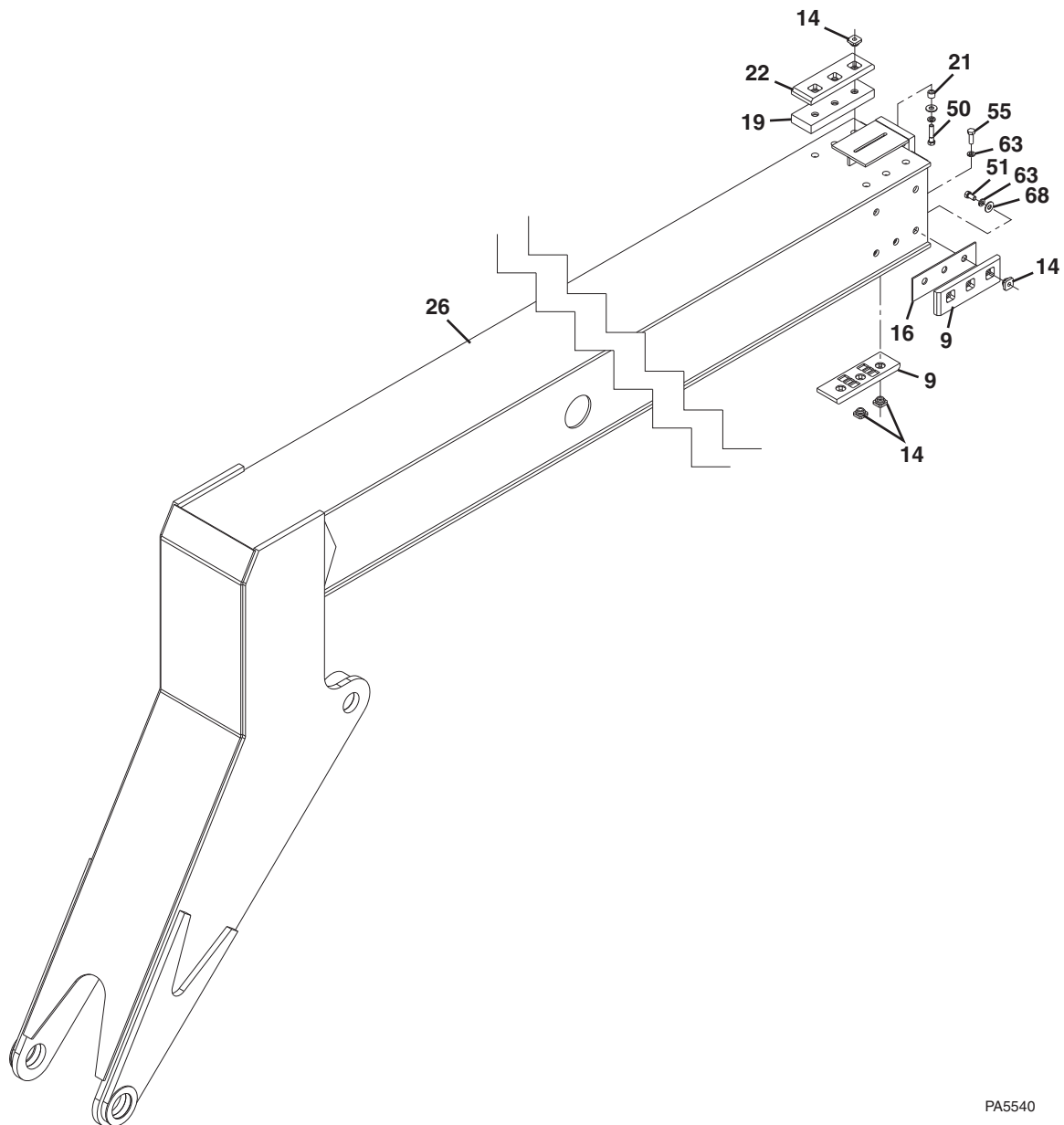
Item	Part Number	Qty.	Description	Rev.
8	7079572	11	MOLDED WEAR PAD	
9	7082311	36	WEAR PAD INSERT	
10	7082342	AR	WEAR PAD SHIM, 0.075	
11	7082362	AR	WEAR PAD SHIM, 0.134	
18	7096702	3	WEAR PAD SPACER	
20	7096882	2	WEAR PAD SPACER	
21	7111572	5	HIGH CAPACITY WEAR PAD	
24	1001098089	1	SECOND BOOM SECTION	
50	8303620	8	HEX HD CAPSCREW, 3/8-16X1, GR5, (Loctite® & torque to 28-34 lb-ft)	
51	8303621	12	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5, (Loctite® & torque to 28-34 lb-ft)	
57	8303681	14	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (Loctite® & torque to 28-34 lb-ft)	
68	8307005	36	LOCKWASHER, 3/8	
72	8307204	32	WASHER, 3/8	
87	8526007	AR	THREAD LOCKING COMPOUND	
N1	Note	Ref	SHIM PADS WITH SPACERS TO MAINTAIN A TOTAL MINIMUM GAP OF 0.07 TO 0.13 INCHES ON BOTH HORIZONTAL AND VERTICAL DIRECTIONS.	
N2	Note	Ref	APPLY THREADLOCKING COMPOUND (8526007) TO ALL SLIDE PAD SCREWS AND TORQUE TO 28-34 LB-FT, (37.9-46.0 Nm).	
N3	Note	Ref	ALL SLIDE PATHWAYS TO BE FREE OF PROJECTIONS. CHECK PATHWAYS ON UNDERSIDES OF INNER AND INTERMEDIATE BOOMS BY SCRAPING WITH SQUARE EDGE OF WEAR PAD SHIM. SCRAPER MUST NOT SNAG.	
N4	Note	Ref	COAT ALL UNPLATED SHOULDER BOLTS WITH ANTI-SIEZE LUBE (8522012) AND PROTECT HEADS AND THREAD ENDS OF EXTERIOR BOLTS WITH VARNISH (8526406).	



BOOM

Figure 2-4 Third Boom Section

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PA5540



Figure 2-4 Third Boom Section

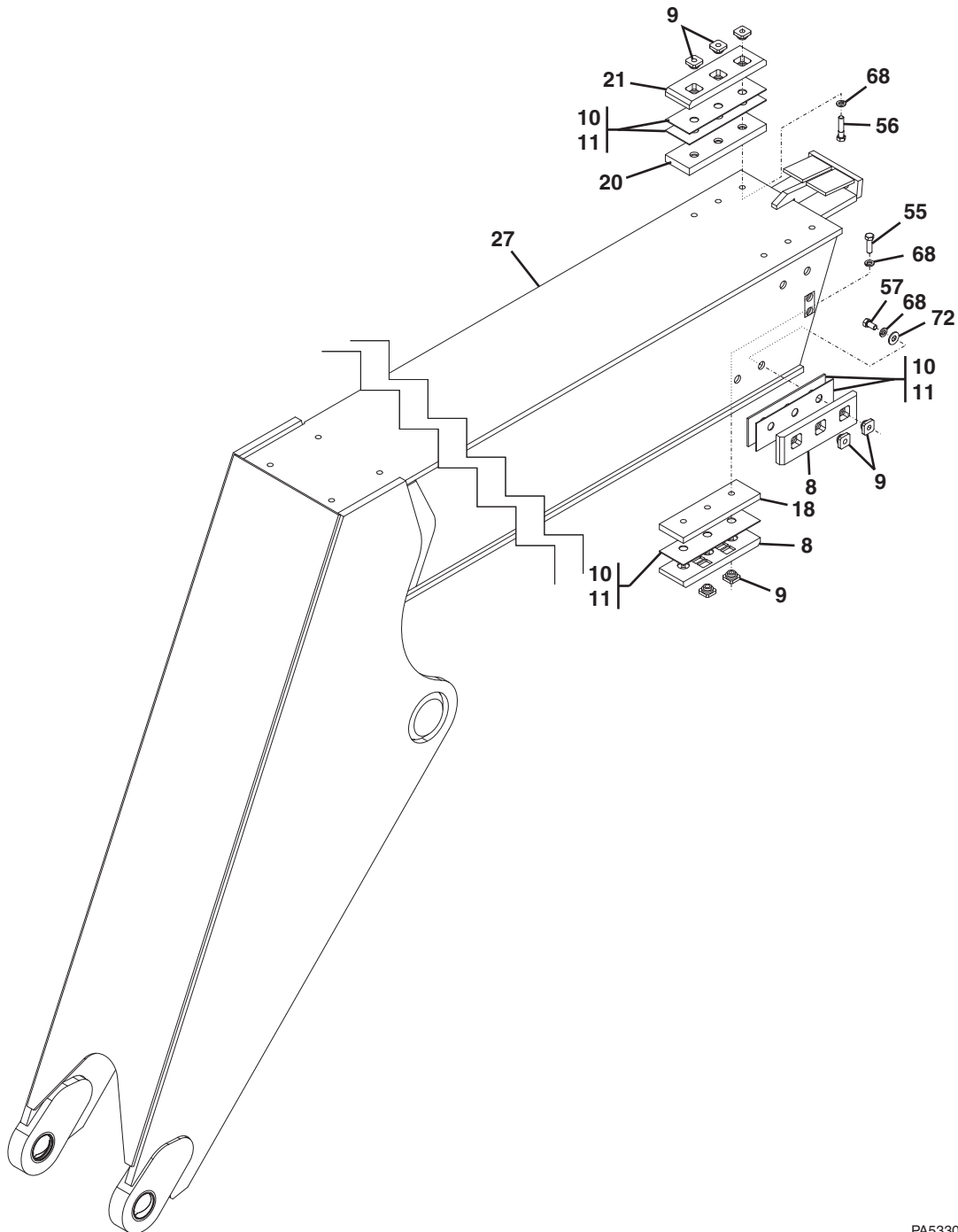
Item	Part Number	Qty.	Description	Rev.
9	7079572	5	MOLDED WEAR PAD	
14	7082311	18	WEAR PAD INSERT	
16	7082362	4	WEAR PAD SHIM, 0.134	
19	7085442	2	WEAR PAD SPACER, 0.88	
21	7096491	6	WEAR PAD SCREW SPACER	
22	7111572	2	HIGH CAPACITY WEAR PAD	
26	7117094	1	THIRD BOOM SECTION	
50	8303679	6	HEX HD CAPSCREW, 3/8-16X1.75, GR5	
51	8303681	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
55	8303738	2	HEX HD CAPSCREW, 3/8-16X0.875, GR5	
63	8307005	16	LOCKWASHER, 0.375	
68	8307204	14	WASHER, 3/8	
N1	Note	Ref	SHIM PADS WITH SPACERS TO MAINTAIN A TOTAL MINIMUM GAP OF 0.07 TO 0.13 INCHES ON BOTH HORIZONTAL AND VERTICAL DIRECTIONS.	
N2	Note	Ref	APPLY THREADLOCKING COMPOUND (8526007) TO ALL SLIDE PAD SCREWS AND TORQUE TO 28-34 LB-FT, (37.9-46.0 Nm).	
N3	Note	Ref	ALL SLIDE PATHWAYS TO BE FREE OF PROJECTIONS. CHECK PATHWAYS ON UNDERSIDES OF INNER AND INTERMEDIATEBOOMS BY SCRAPING WITH SQUARE EDGE OF WEAR PAD SHIM. SCRAPER MUST NOT SNAG.	
N4	Note	Ref	COAT ALL UNPLATED SHOULDER BOLTS WITH ANTI-SIEZE LUBE (8522012) AND PROTECT HEADS AND THREAD ENDS OF EXTERIOR BOLTS WITH VARNISH (8526406).	



BOOM

Figure 2-4 Third Boom Section

6042



PA5330



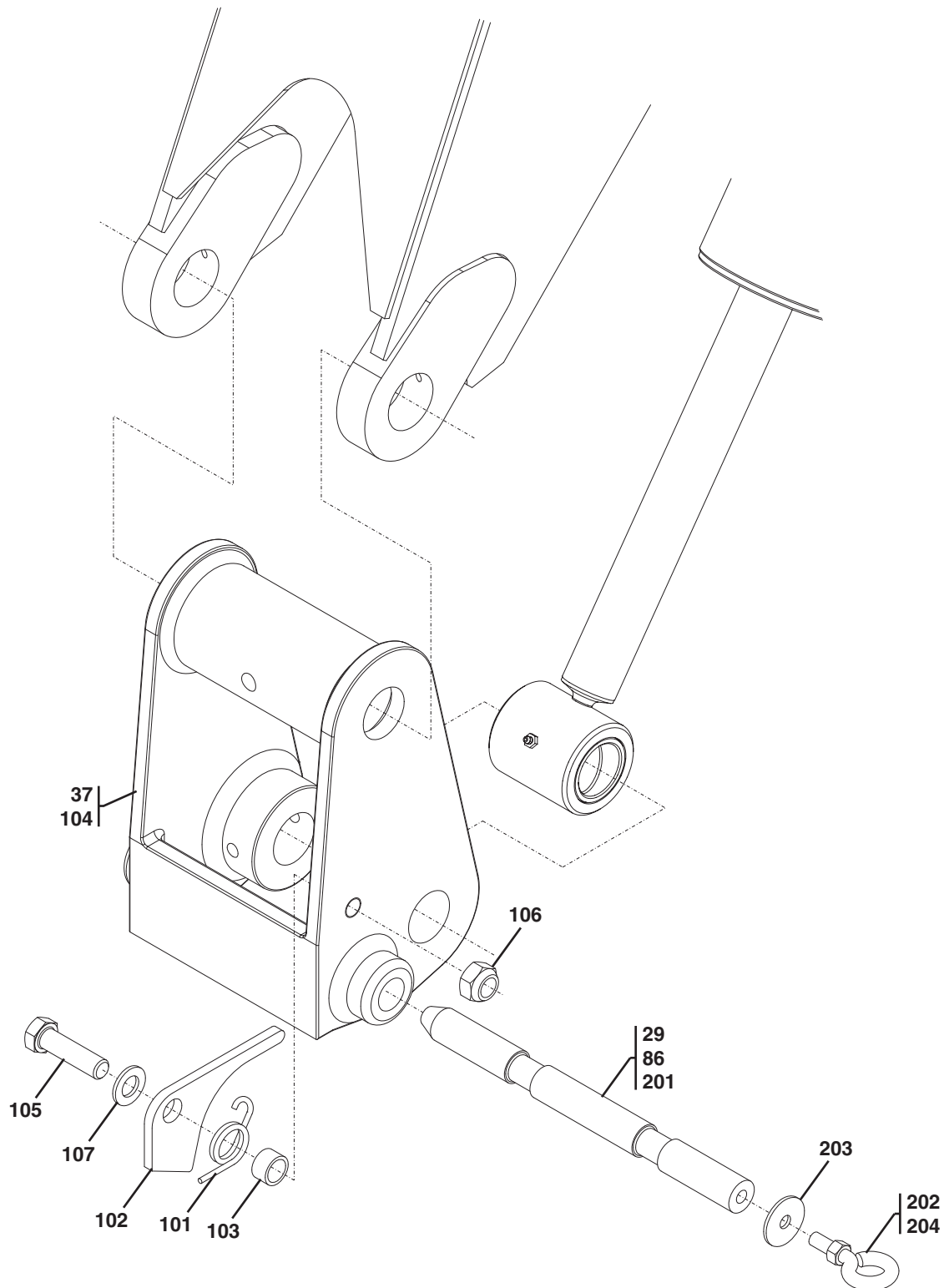
Figure 2-4 Third Boom Section

Item	Part Number	Qty.	Description	Rev.
8	7079572	5	MOLDED WEAR PAD	
9	7082311	16	WEAR PAD INSERT	
10	7082342	AR	WEAR PAD SHIM, 0.075	
11	7082362	AR	WEAR PAD SHIM, 0.134	
18	7096702	1	WEAR PAD SPACER	
20	7096882	2	WEAR PAD SPACER	
21	7111572	2	HIGH CAPACITY WEAR PAD	
27	7117113	1	THIRD BOOM SECTION	
55	8303675	2	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5, (Loctite® & torque to 28-34 lb-ft)	
56	8303679	6	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5, (Loctite® & torque to 28-34 lb-ft)	
57	8303681	8	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (Loctite® & torque to 28-34 lb-ft)	
68	8307005	16	LOCKWASHER, 3/8	
72	8307204	8	WASHER, 3/8	
87	8526007	AR	THREAD LOCKING COMPOUND	
N1	Note	Ref	SHIM PADS WITH SPACERS TO MAINTAIN A TOTAL MINIMUM GAP OF 0.07 TO 0.13 INCHES ON BOTH HORIZONTAL AND VERTICAL DIRECTIONS.	
N2	Note	Ref	APPLY THREADLOCKING COMPOUND (8526007) TO ALL SLIDE PAD SCREWS AND TORQUE TO 28-34 LB-FT, (37.9-46.0 Nm).	
N3	Note	Ref	ALL SLIDE PATHWAYS TO BE FREE OF PROJECTIONS. CHECK PATHWAYS ON UNDERSIDES OF INNER AND INTERMEDIATEBOOMS BY SCRAPING WITH SQUARE EDGE OF WEAR PAD SHIM. SCRAPER MUST NOT SNAG.	
N4	Note	Ref	COAT ALL UNPLATED SHOULDER BOLTS WITH ANTI-SIEZE LUBE (8522012) AND PROTECT HEADS AND THREAD ENDS OF EXTERIOR BOLTS WITH VARNISH (8526406).	



BOOM

Figure 2-5 Quick Attach



PA3811



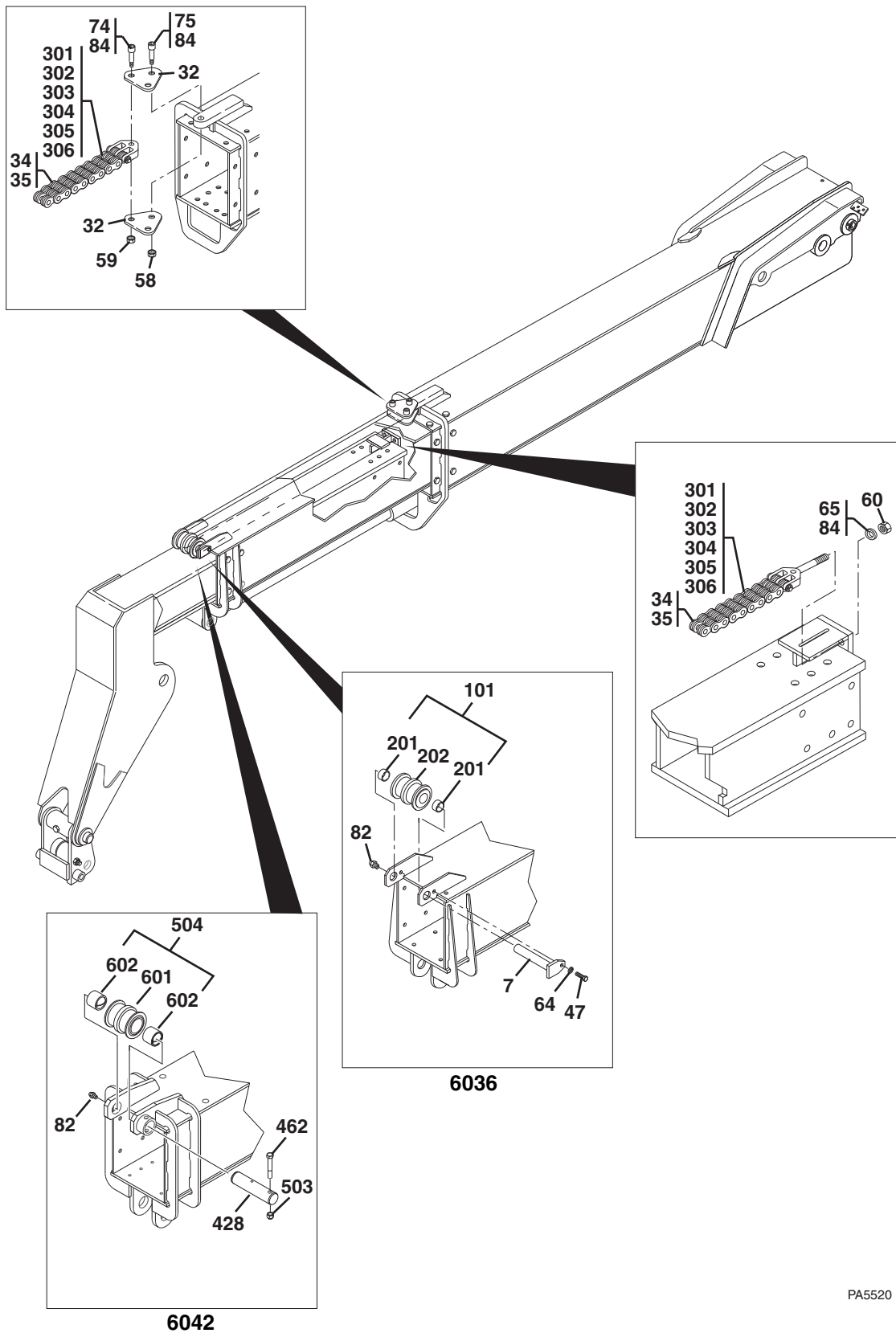
Figure 2-5 Quick Attach

Item	Part Number	Qty.	Description	Rev.
29	7118892	1	LOCK PIN ASSY, (includes items 101 thru 104)	B
37	7139864	1	QUICK ATTACH ASSY, (includes items 201 thru 207)	B
86	8522012	AR	ANTI-SEIZE LUBE	
101	7085552	1	TORSION SPRING	
102	7085562	1	LATCH	
103	7085571	1	SPACER	
104	7139863	1	QUICK ATTACH	
105	8303638	1	HEX HD CAPSCREW, 3/4-10X2-3/4	
106	8305619	1	HEX LOCKNUT, 3/4-10	
107	8307104	1	FLAT WASHER, 3/4	
201	7118882	1	PIN	
202	8310266	1	SHANK BOLT EYE, 1/2-13X2	
203	8310276	1	FLAT WASHER, 0.51X1.88X.125	
204	8526007	AR	LOCTITE® 242™	



BOOM

Figure 2-6 Boom Extend Chains



PA5520

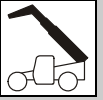


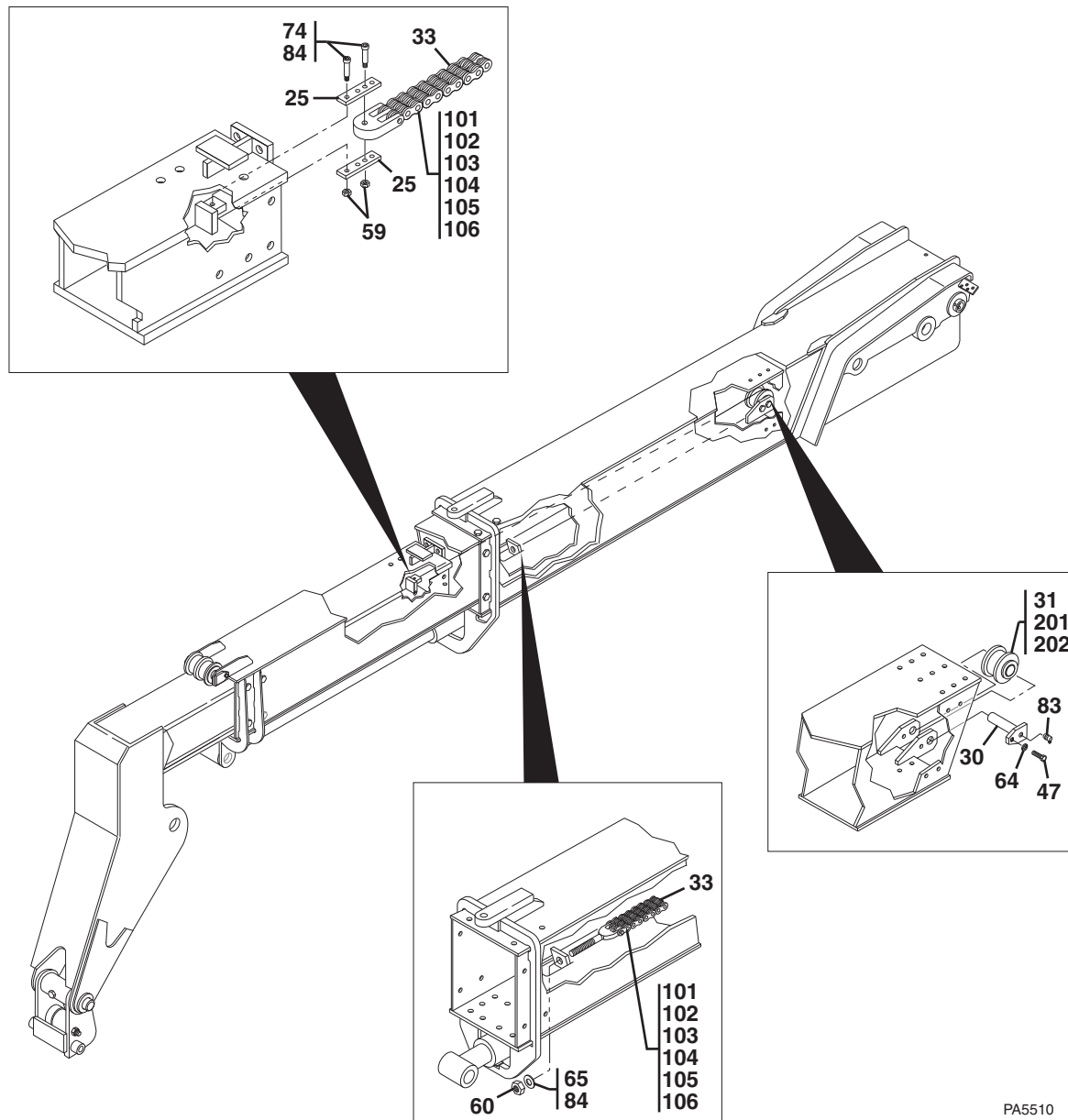
Figure 2-6 Boom Extend Chains

Item	Part Number	Qty.	Description	Rev.
7	7063432	1	DOUBLE CHAIN SHEAVE PIN	
32	7139180	2	EXTEND CHAIN YOKE	
34	7139692	1	EXTEND CHAIN AND CLEVIS ASSY, (6036) , (includes items 301 thru 306)	B
	7139690	1	EXTEND CHAIN AND CLEVIS ASSY, (6042) , (includes items 301 thru 306)	B
35	7139692	1	EXTEND CHAIN AND CLEVIS ASSY, (6036) , (includes items 301 thru 306)	B
	7139690	1	EXTEND CHAIN AND CLEVIS ASSY, (6042) , (includes items 301 thru 306)	B
47	8303624	1	HEX HD CAPSCREW, 0.50-13X1.0	
58	8305644	1	HEX LOCKNUT, 1/2-13	
59	8305645	2	HEX LOCKNUT, 3/8-16	
60	8305646	2	HEX LOCKNUT, 3/4-16	
64	8307007	1	LOCKWASHER, 0.50	
65	8307104	2	WASHER, 3/4	
74	8310019	2	SHOULDER SCREW, 1/2X1-1/2X3/8-16	
75	8310020	1	SHOULDER SCREW, 5/8X1-1/2X1/2-13	
82	8520001	1	LUBE FITTING, STRAIGHT	
84	8522012	AR	ANTI SIEZE LUBE	
87	8526406	AR	VARNISH SEALANT	
101	1001101861	1	BUSHING SHEAVE INSTALL, (includes items 201 and 202)	A
201	5906392	2	SHEAVE BUSHING	
202	7063452	1	EXTEND CHAIN SHEAVE	
301	7139032	1	LEAF CHAIN CLEVIS, FEMALE, 3/4-6X6	
302	7139416	1	LEAF CHAIN CLEVIS, FEMALE, 6X6	
303	8124138	2	CHAIN CLEVIS PIN	
304	8127024	1	LEAF CHAIN, BL666, (6036)	
	8127022	1	LEAF CHAIN, BL666, (6042)	
305	8522012	AR	ANTI SIEZE LUBE	
306	8642237	4	RETAINING RING	
428	1001097735	1	EXTEND CHAIN SHEAVE PIN	
462	8305643	1	HEX LOCKNUT, 0.625-11	
503	8303634	1	HEX HD CAPSCREW, 0.625-11X4.00, GR	
504	1001101845	1	BUSHING SHEAVE INSTALLATION, (includes items 601 thru 602)	A
601	7114112	1	EXTEND CHAIN SHEAVE	
602	7126662	2	SHEAVE BUSHING	



BOOM

Figure 2-7 Boom Retract Chain



PA5510



Figure 2-7 Boom Retract Chain

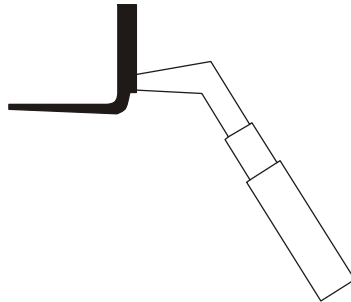
Item	Part Number	Qty.	Description	Rev.
25	7117031	2	CHAIN ANCHOR LINK	
30	7138977	1	RETRACT CHAIN SHEAVE PIN	
31	7138986	1	RETRACT CHAIN SHEAVE, (includes items 201 & 202)	
33	7139689	1	RETRACT CHAIN & CLEVIS ASSY, (6036) , (includes items 101 & 106)	B
	7139692	1	RETRACT CHAIN & CLEVIS ASSY, (6042) , (includes items 101 & 106)	B
47	8303624	1	HEX HD CAPSCREW, 1/2-13X1	
59	8305645	2	HEX LOCKNUT, 0.375-16	
60	8305646	1	HEX LOCKNUT, 3/4-16	
64	8307007	1	LOCKWASHER, 1/2	
65	8307104	1	WASHER, 3/4	
74	8310019	2	SHOULDER SCREW, 1/2X1-1/2X3/8-16	
83	8520003	1	LUBE FITTING, 90 DEGREES	
84	8522012	AR	ANTI SIEZE LUBE	
101	7139032	1	LEAF CHAIN CLEVIS, FEMALE, 3/4-6X6	
102	7139416	1	LEAF CHAIN CLEVIS, FEMALE, 6X6	
103	8124138	2	CHAIN CLEVIS PIN	
104	8127021	1	LEAF CHAIN, BL666, (6036)	
	8127024	1	LEAF CHAIN, BL666, (6042)	
105	8522012	AR	ANTI SIEZE LUBE	
106	8642237	4	RETAINING RING	
201	7138978	1	RETRACT CHAIN SHEAVE	
202	7138979	1	RETRACT CHAIN SHEAVE BUSHING	

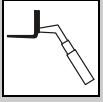


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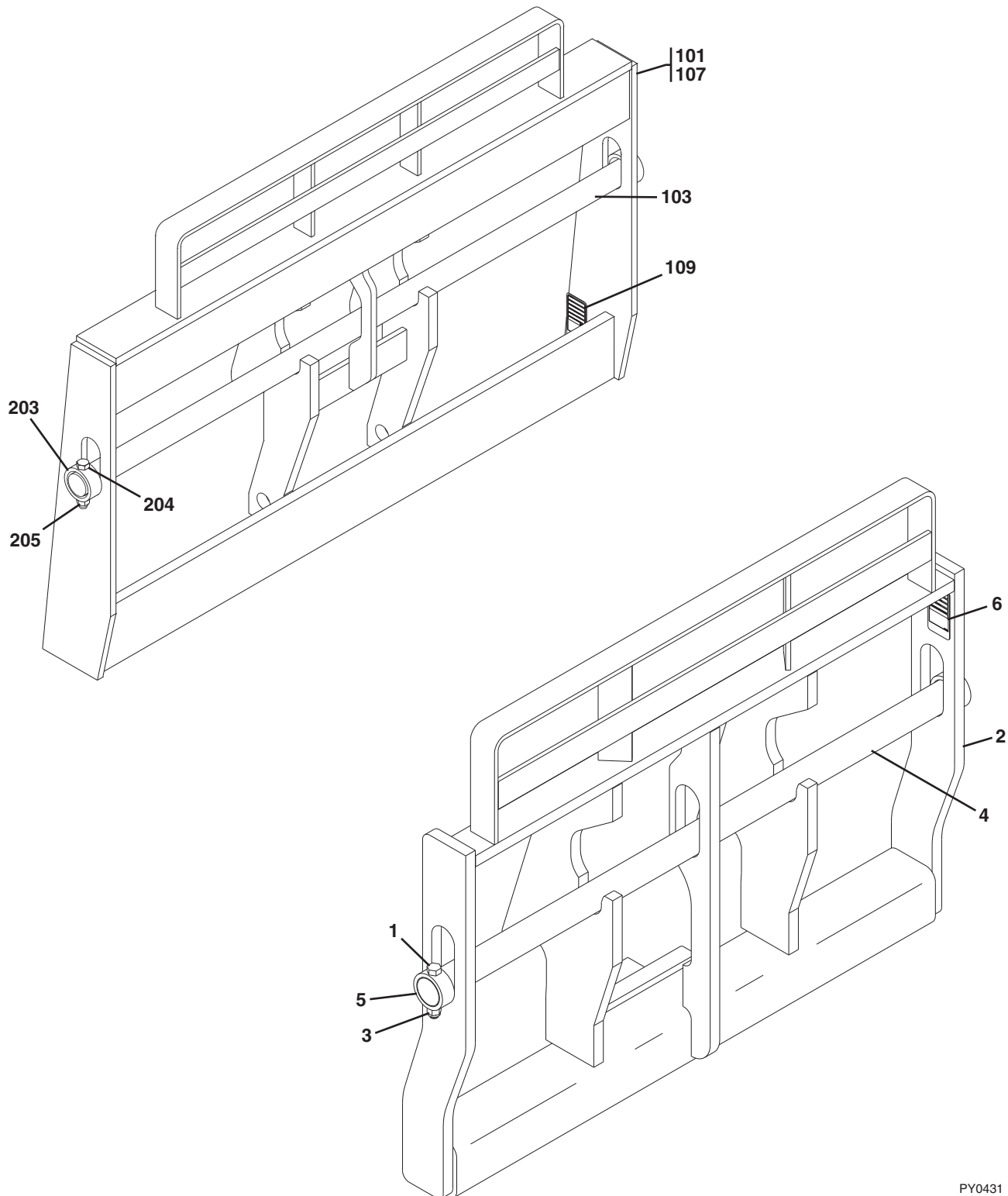
SECTION 3 ATTACHMENTS





ATTACHMENTS

Figure 3-1 Tilt Carriage



PY0431

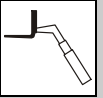


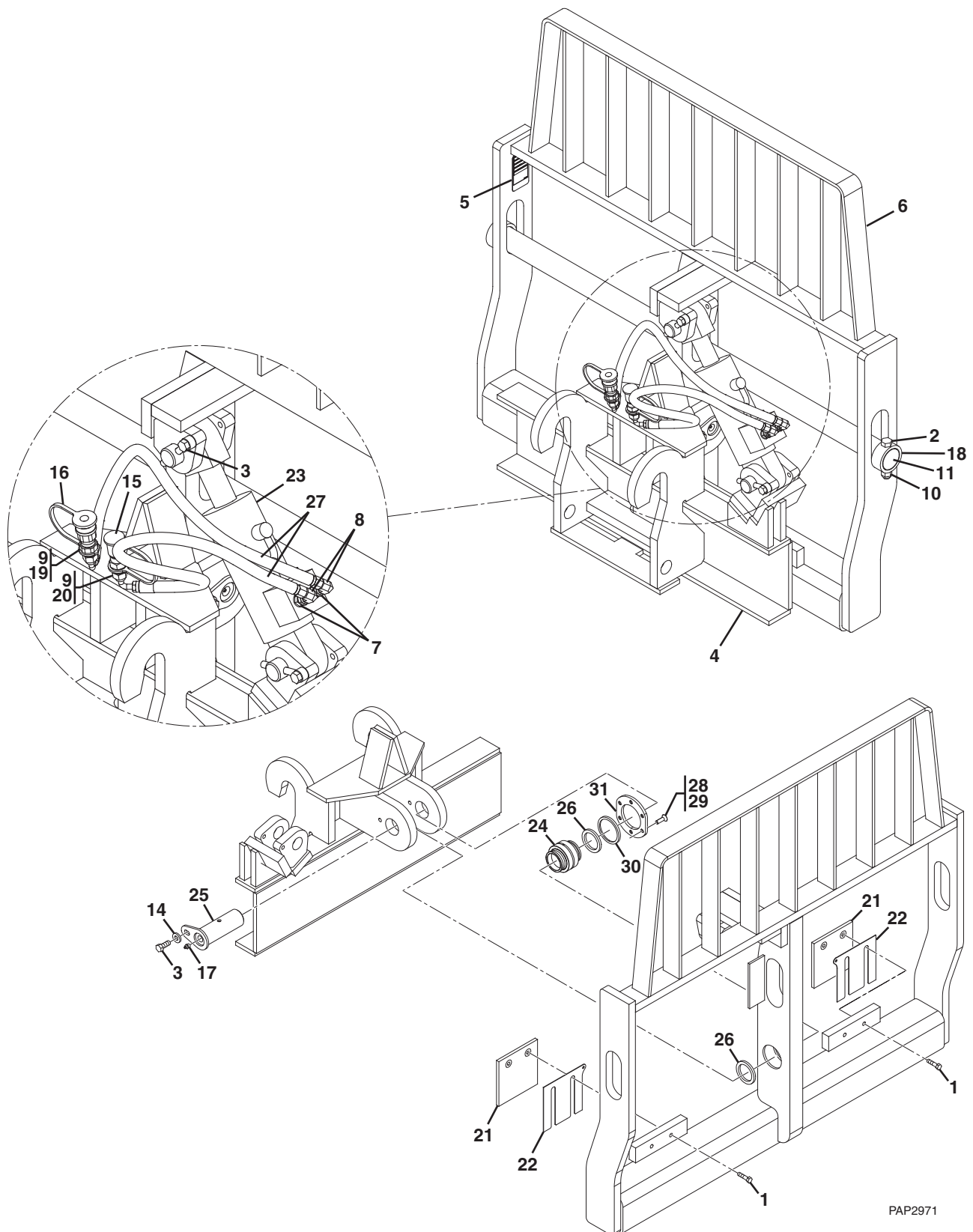
Figure 3-1 Tilt Carriage

Item	Part Number	Qty.	Description	Rev.
	1170021	1	50 IN TILT CARRIAGE, (includes items 1 thru 6)	D
	1170024	1	60 IN TILT CARRIAGE, (includes items 1 thru 6)	D
	1001132514	1	72 IN TILT CARRIAGE, (includes items 1 thru 6)	A
1	0642032	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
2	NSS	1	TILT CARRIAGE	
3	3300240	2	LOCKNUT, 5/8-11	
4	3423275	1	50 IN FORK PIN	
	3423242	1	60 IN FORK PIN	
	3423276	1	72 IN FORK PIN	
5	90200003	2	COLLAR	
6	NSS	1	S/N PLATE	



ATTACHMENTS

Figure 3-2 Side Tilt Carriage



PAP2971

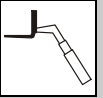


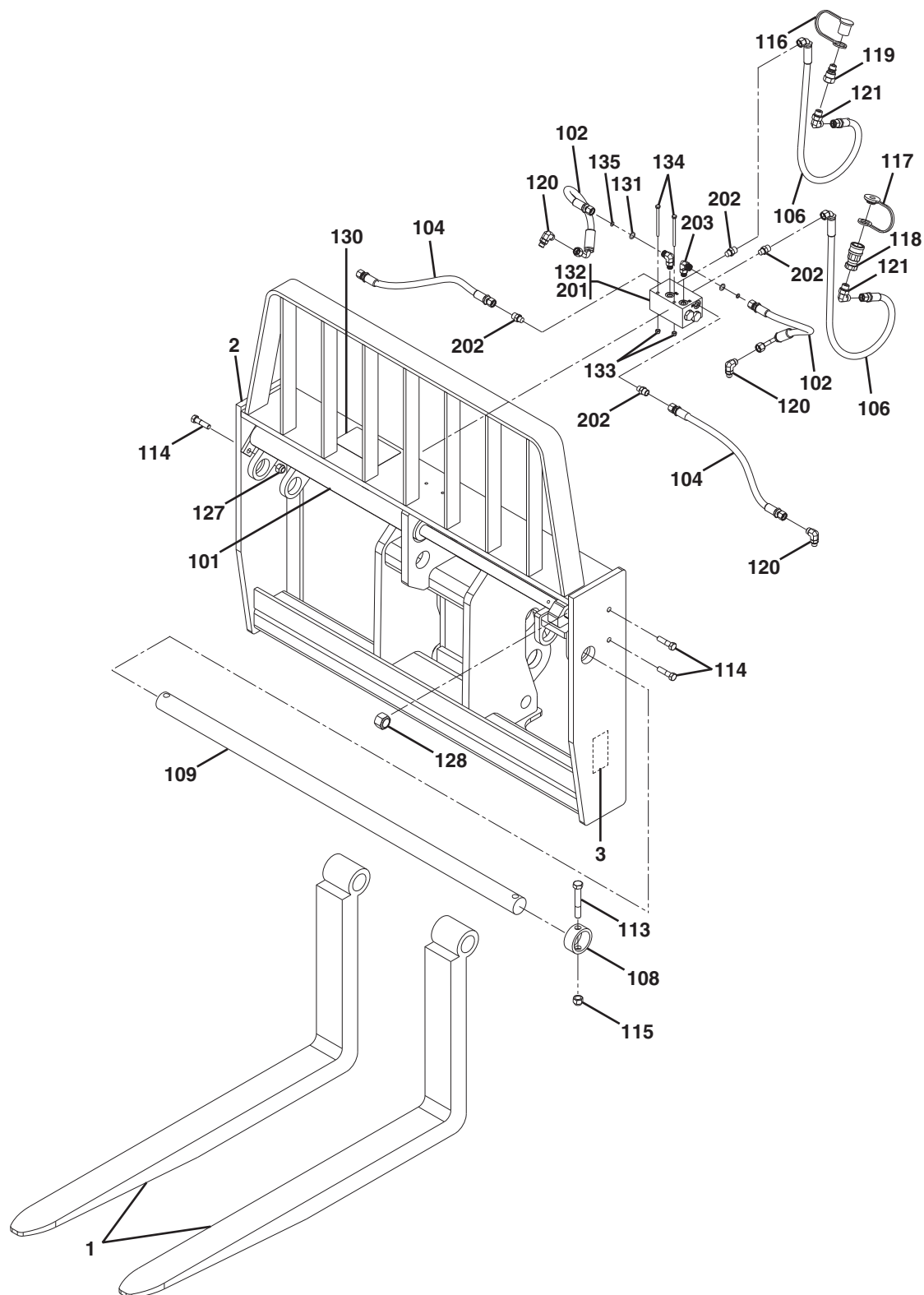
Figure 3-2 Side Tilt Carriage

Item	Part Number	Qty.	Description	Rev.
	1170054	1	50 IN SIDE TILT CARRIAGE, (includes all items)	H
	1001101956	1	60 IN SIDE TILT CARRIAGE, (includes all items)	H
	1170057	1	72 IN SIDE TILT CARRIAGE, (includes all items)	H
1	0641612	4	HEX HD CAPSCREW, 3/8-16X1-1/2	
2	0642032	2	HEX HD CAPSCREW, 5/8-11X4	
3	0681810	3	HEX HD CAPSCREW, 1/2-13X1-1/4	
4	NSS	1	CARRIAGE BASE	
5	NSS	1	S/N PLATE	
6	NSS	1	SIDE TILT CARRIAGE	
7	2110606	2	CONNECTOR	
8	2172106	2	ADAPTER, 90 DEGREES	
9	2110808	2	CONNECTOR, (50 IN & 72 IN Side Tilt Carriage)	
	2110608	2	CONNECTOR, (60 IN Side Tilt Carriage)	
10	3300240	2	LOCK NUT, 5/8-11	
11	3423275	1	50 IN FORK PIN	
	3423242	1	60 IN FORK PIN	
	3423276	1	72 IN FORK PIN	
14	4891800	1	WASHER, 1/2	
15	8420053	1	DUST CAP	
16	8420055	1	DUST PLUG	
17	88671001	1	GREASE FITTING	
18	90200003	2	COLLAR	
19	91403413	1	CONNECTOR	
20	91403414	1	CONNECTOR	
21	1001090063	2	WEAR PAD	
22	1001090064	AR	SHIM	
23		Ref	SIDE TILT CARRIAGE CYLINDER & MOUNTING HARDWARE, (see Figure 9-7 for details)	
24	1001090140	1	BEARING	
25	1001099113	1	PIN	
26	1001099115	2	SLEEVE	
27	1001102378	2	HOSE ASSY, 3/8X39	
28	0100011	AR	LOCTITE® 242™	
29	0741610	6	FLAT HD SOCKET SCREW, 3/8-16X1-1/4	
30	1001120914	1	BEARING RETAINER SHIM	
31	1001120915	1	BEARING RETAINER PLATE	



ATTACHMENTS

Figure 3-3 50 Inch Dual Fork Carriage



PH5130

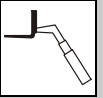


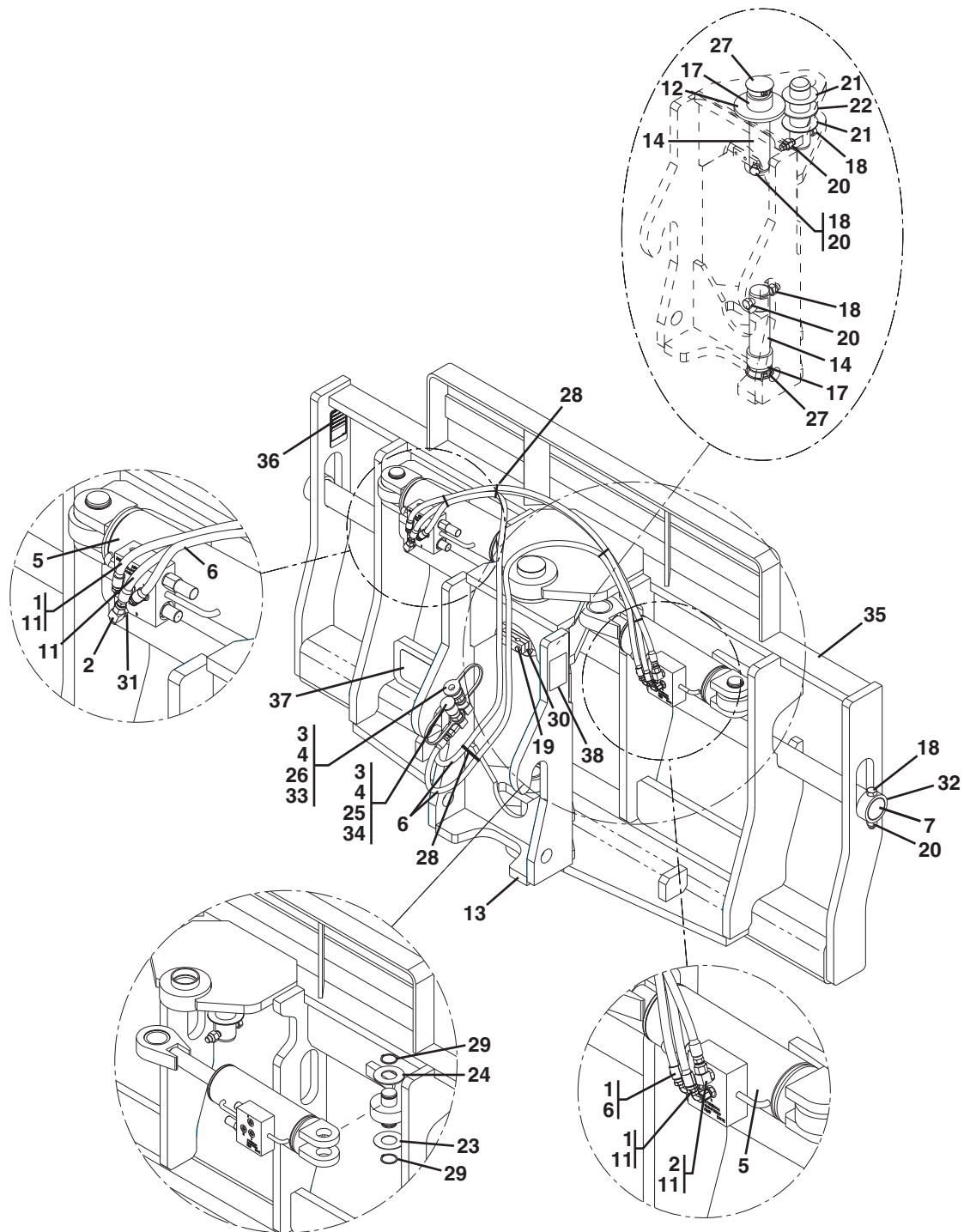
Figure 3-3 50 Inch Dual Fork Carriage

Item	Part Number	Qty.	Description	Rev.
	7301295	1	50 IN DUAL FORK CARRIAGE ASSY, (includes items 1 thru 3)	D
1	7301408	2	PALLET FORK, (60X100X1220mm)	
2	7301568	1	50 IN CARRIAGE, (includes items 101 thru 135)	H
3	NSS	1	S/N PLATE	
101	2717283	2	FORK POSITIONING CYLINDER	
102	2717160	2	HOSE ASSY	
104	2717161	2	HOSE ASSY	
106	2717162	2	HOSE ASSY	
108	09020003	2	FORK PIN COLLAR	
109	90451058	1	FORK SHAFT	
113	8303634	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
114	8303658	4	HEX HD CAPSCREW, 1/2-13X2, GR5	
115	8305643	2	HEX LOCKNUT, 5/8-11	
116	8420053	1	DUST CAP	
117	8420055	1	DUST PLUG	
118	91403413	1	CONNECTOR	
119	91403414	1	CONNECTOR	
120	2130606	4	ELBOW, 90 DEGREES, (includes o-ring)	
121	2130608	2	ELBOW, 90 DEGREES, (includes o-ring)	
127	8310302	4	HEX LOCKNUT, 1/2-13	
128	10705034	2	HEX LOCKNUT, 1-14	
130	4110473	1	HOSE ROUTING DECAL	
131	7139918	2	ORIFICE DISK	
132	4641502	1	VALVE ASSY, (includes items 201 thru 203)	B
133	8305624	2	HEX LOCKNUT, 1/4-20	
134	8310435	2	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
135	8630003	2	O-RING	
201	4641501	1	FLOW DIVIDER VALVE	
202	2110606	4	CONNECTOR	
203	2130606	2	ELBOW, 90 DEGREES, (includes o-ring)	



ATTACHMENTS

Figure 3-4 90 Degree Swing Carriage



PH5140

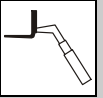


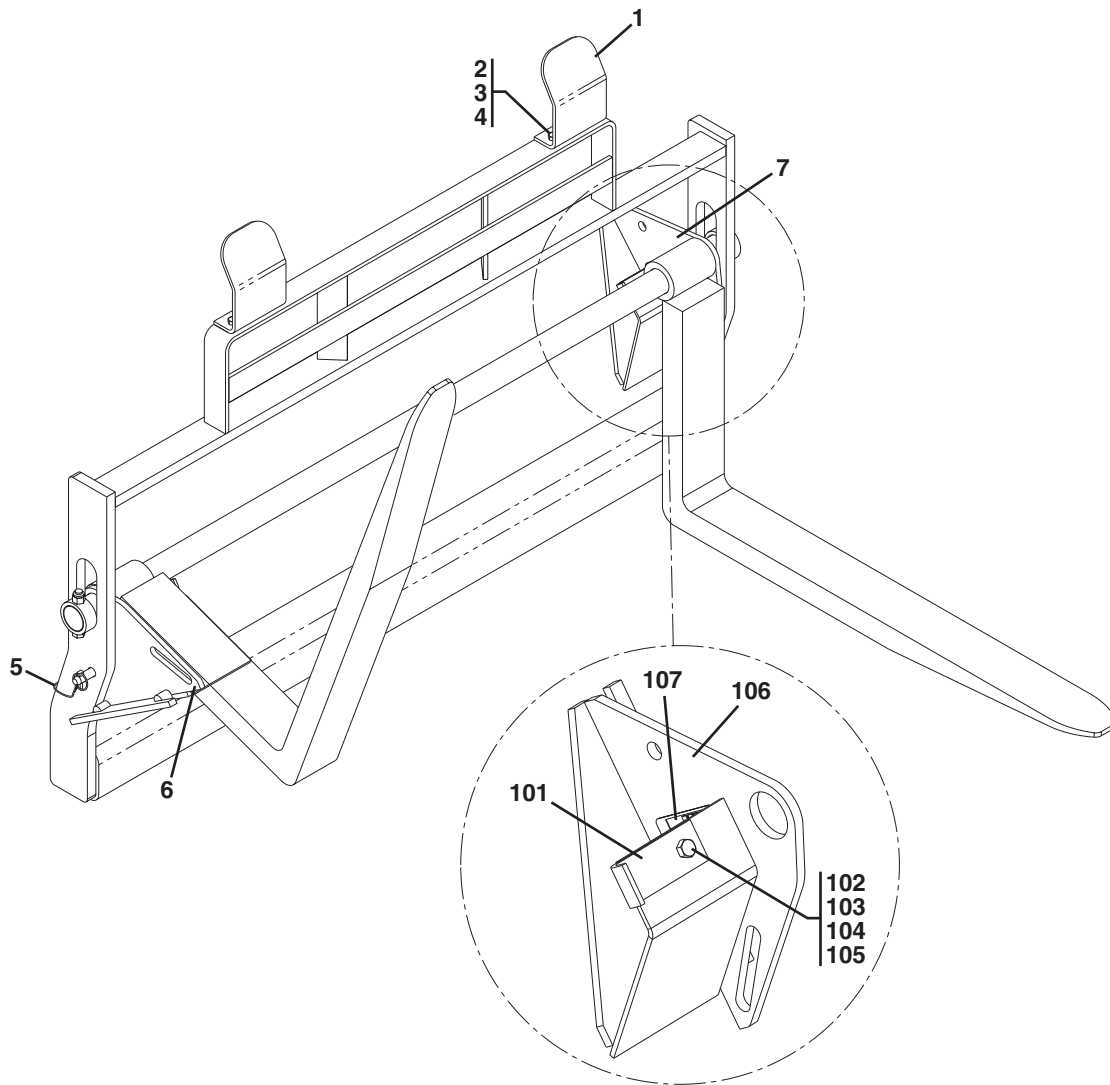
Figure 3-4 90 Degree Swing Carriage

Item	Part Number	Qty.	Description	Rev.
	1001095418	1	90 DEGREE SWING CARRIAGE, 72 IN, (includes all items)	K
1	2220415	4	CONNECTOR	
2	2220473	2	CONNECTOR, 90 DEGREES	
3	2220609	2	CONNECTOR	
4	2220628	2	CONNECTOR, 90 DEGREES	
5		Ref	SWING CARRIAGE CYLINDER & MOUNTING HARDWARE, (see Figure 9-8 for details)	
6	2717287	2	HOSE ASSY	
7	3423276	1	PIN	
11	6604662	2	HOSE ASSY	
12	7062922	1	WASHER	
13	NSS	1	PIVOT WELDMENT	
14	7110702	2	PIVOT PIN	
17	8065062	2	BUSHING	
18	8303634	3	HEX HD CAPSCREW, 5/8-11X4, GR5	
19	8303715	3	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
20	8305643	3	HEX NUT, 5/8-11	
21	8307904	AR	SHIM	
22	8307918	AR	SHIM	
23	8310160	AR	SHIM	
24	8310161	AR	SHIM	
25	8420053	1	DUST CAP	
26	8420055	1	DUST PLUG	
27	8580315	2	PLUG	
28	8584001	5	TIE WRAP	
29	8642207	4	RETAINING RING	
30	8769132	2	CLAMP	
31	8770016	2	CONNECTOR	
32	90200003	2	COLLAR	
33	91403413	1	CONNECTOR	
34	91403414	1	CONNECTOR	
35	NSS	1	CARRIAGE FRAME	
36	NSS	1	S/N PLATE	
37	1001110704	1	WARNING CRUSH HAZARD DECAL	
38	1001111190	2	WARNING DECAL	



ATTACHMENTS

Figure 3-5 Sheet Material Handler



PY1510

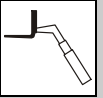
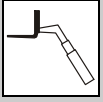


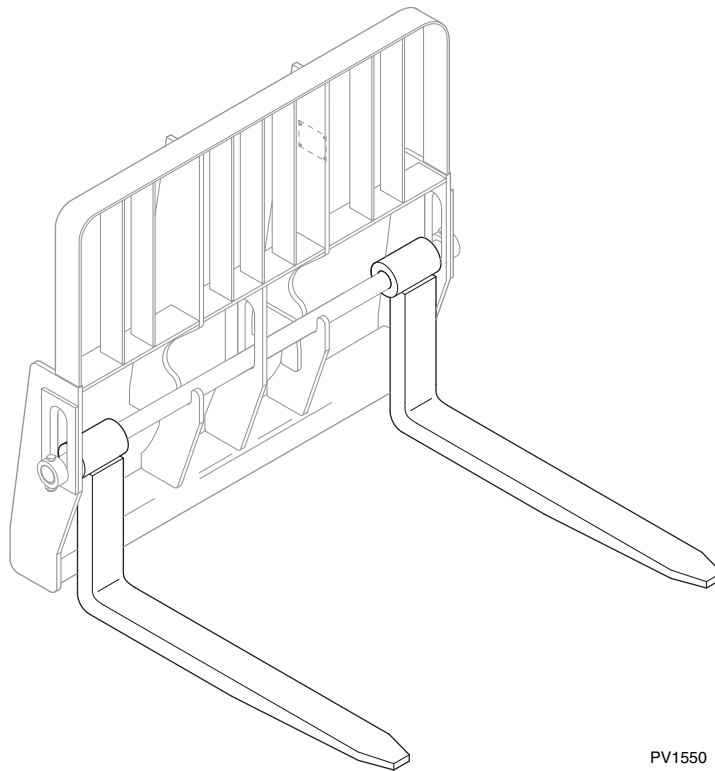
Figure 3-5 Sheet Material Handler

Item	Part Number	Qty.	Description	Rev.
	1001100227	1	SHEET MATERIAL HANDLER ASSY, (includes all items)	A
1	7112642	2	BACKREST EXTENSION	
2	8303626	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
3	8305012	4	HEX NUT, 1/2-13	
4	8307007	4	LOCKWASHER, 1/2	
5	1001093377	2	HITCH PIN	
6	1001101115	1	RH FORK SUPPORT ASSY, (includes items 101 thru 107)	A
7	1001101116	1	LH FORK SUPPORT ASSY, (includes items 101 thru 107)	B
101	7114941	1	LOCK BAR	
102	8303626	1	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
103	8305644	1	HEX LOCK NUT, 1/2-13	
104	8307007	1	LOCKWASHER, 1/2	
105	8307112	1	WASHER, 1/2	
106	1001100228	1	RH FORK SUPPORT, (not shown)	
	1001100229	1	LH FORK SUPPORT, (shown)	
107	NSS	1	S/N PLATE	



ATTACHMENTS

Figure 3-6 Forks



PV1550

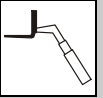


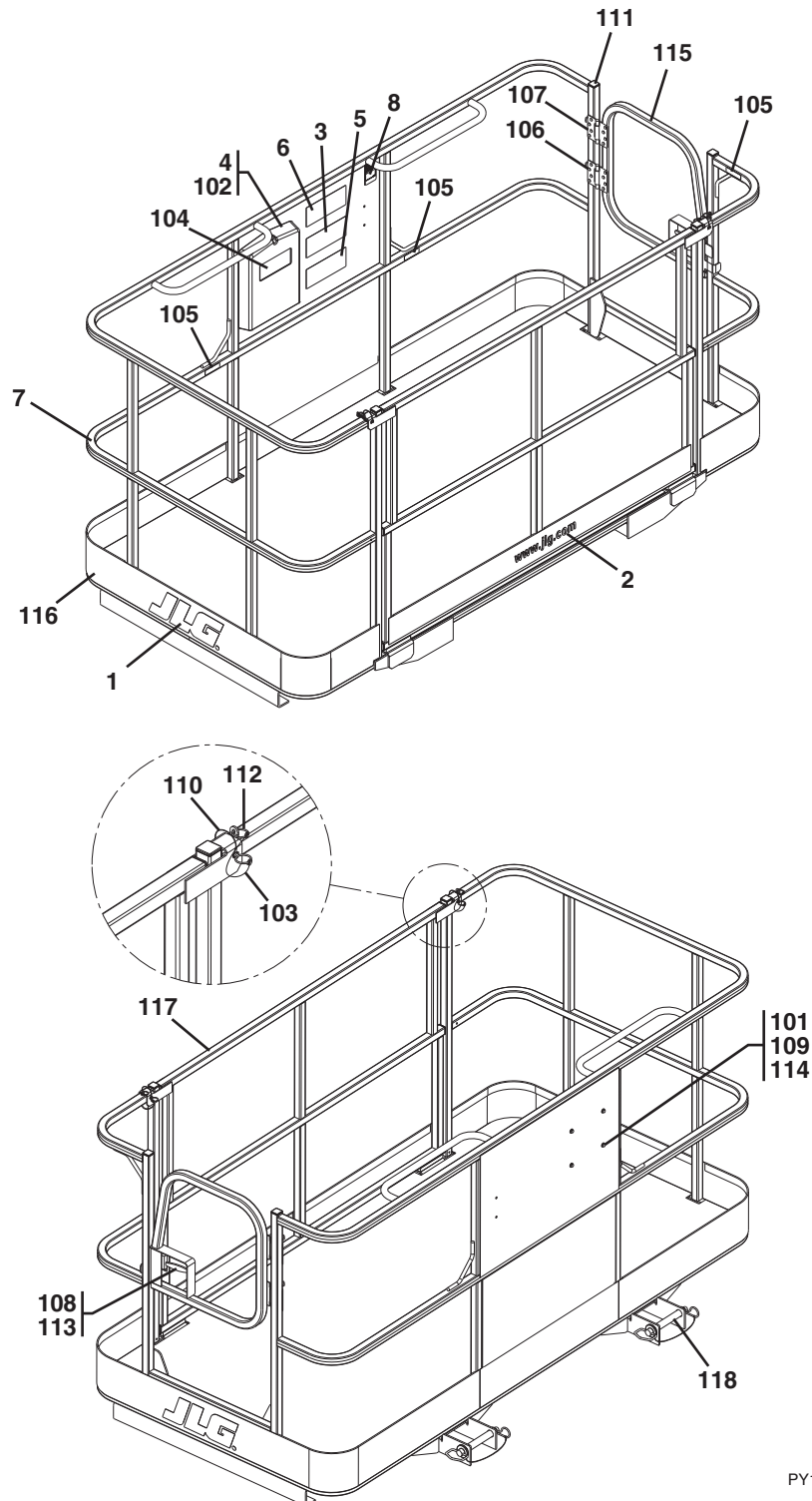
Figure 3-6 Forks

Item	Part Number	Qty.	Description	Rev.
	2340037	6	CUBING FORK, 48X2X2, 11,640 LB	A
	2340045	2	PALLET FORK, 48X4X2.36, 10,950 LB	A
	2340038	2	PALLET FORK, 48X5X2.36, 13,700 LB	A
	2340039	2	DUAL TAPER FORK, 60X6X2.36, 16,300 LB	A
	2340046	2	DUAL TAPER FORK, 60X7X1.75, 10,800 LB	A
	1001092391	2	DUAL TAPER FORK, 72X6X2, 11,300 LB	A
	1001137512	2	FORK EXTENSION, 90"	A
N1	Note	Ref	FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY. PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	
N2	Note	Ref		



ATTACHMENTS

Figure 3-7 Fork Mounted Platform



PY1640

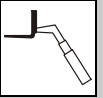


Figure 3-7 Fork Mounted Platform

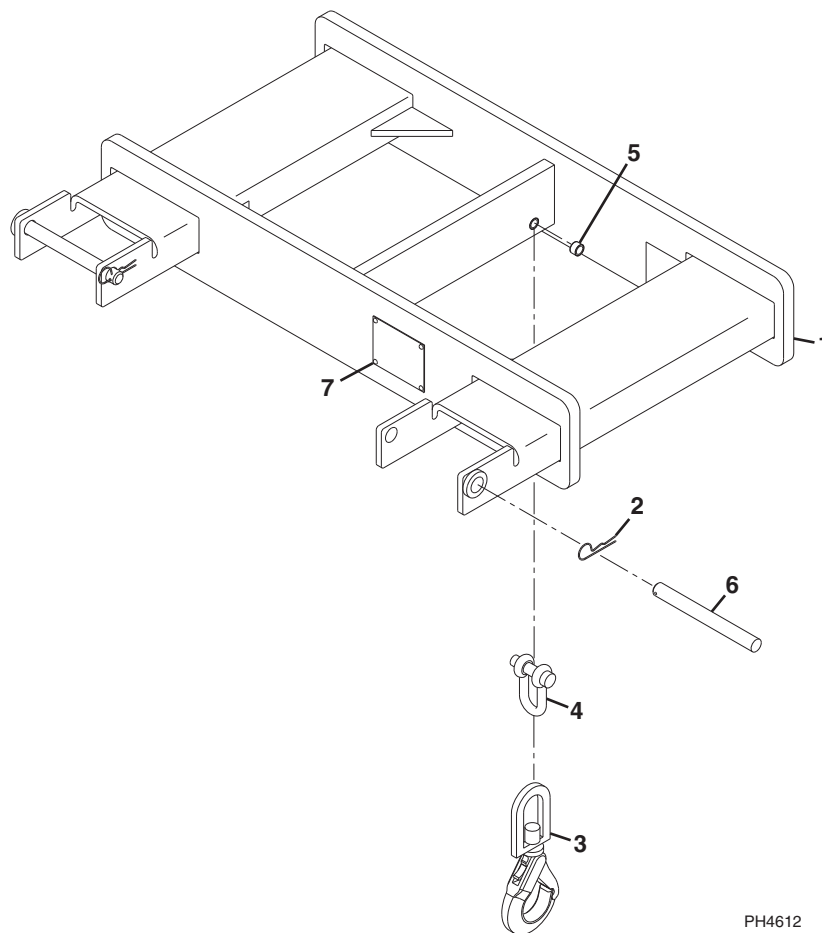
Item	Part Number	Qty.	Description	Rev.
	1001103637	1	FORK MOUNTED PERSONNEL PLATFORM, (ASME) , (includes all items)	D
	1001103730	1	FORK MOUNTED PERSONNEL PLATFORM, (ISO) , (includes all items)	D
	1001103736	1	FORK MOUNTED PERSONNEL PLATFORM, (FRENCH) , (includes all items)	D
1	1702773	2	JLG DECAL	
2	1704885	1	WEBSITE DECAL	
3	1706892	1	PLATFORM WARNING DECAL, (ASME)	
	1001096025	1	PLATFORM WARNING DECAL, (ISO)	
	1001096024	1	PLATFORM WARNING DECAL, (French)	
4	31200160	1	OPERATION & SAFETY MANUAL, (ASME)	
	31200387	1	OPERATION & SAFETY MANUAL, (Spanish)	
	31200388	1	OPERATION & SAFETY MANUAL, (Portuguese)	
	31200336	1	OPERATION & SAFETY MANUAL, (French)	
5	1001092481	1	WARNING DECAL, (ASME)	
	1001096021	1	WARNING DECAL, (ISO)	
	1001096019	1	WARNING DECAL, (French)	
6	1001092482	1	CAPACITY DECAL, (ASME)	
	1001096023	1	CAPACITYDECAL, (ISO)	
	1001096020	1	CAPACITY DECAL, (French)	
7	1001096162	1	FORK MOUNTED PLATFORM, (includes items 101 thru 118)	J
8	NSS	1	S/N PLATE	
101	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8	
102	0860520	1	MANUAL STORAGE BOX	
103	1060379	2	LANYARD CABLE	
104	1701509	1	MANUAL DECAL	
105	1704277	3	LANYARD ATTACH DECAL	
106	2080040	16	FASTENER	
107	2600281	2	HINGE	
108	2940074	1	LATCH	
109	3311405	4	HEX NUT, 1/4-20	
110	3421453	2	PIN	
111	3520072	10	PLUG	
112	3760170	4	RING	
113	3820020	4	RIVET	
114	4711400	8	WASHER, 1/4	
115	4846452	1	GATE WELDMENT	
116	NSS	1	PLATFORM	
117	1001095810	1	GATE WELDMENT	
118	1001102813	2	HITCH PIN	



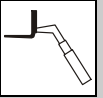
ATTACHMENTS

Figure 3-8 Lifting Hook

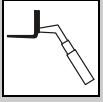
**NOTE: PALLET/LUMBER FORKS OF AN APPROPRIATE
LOAD RATING MUST BE USED.**



PH4612

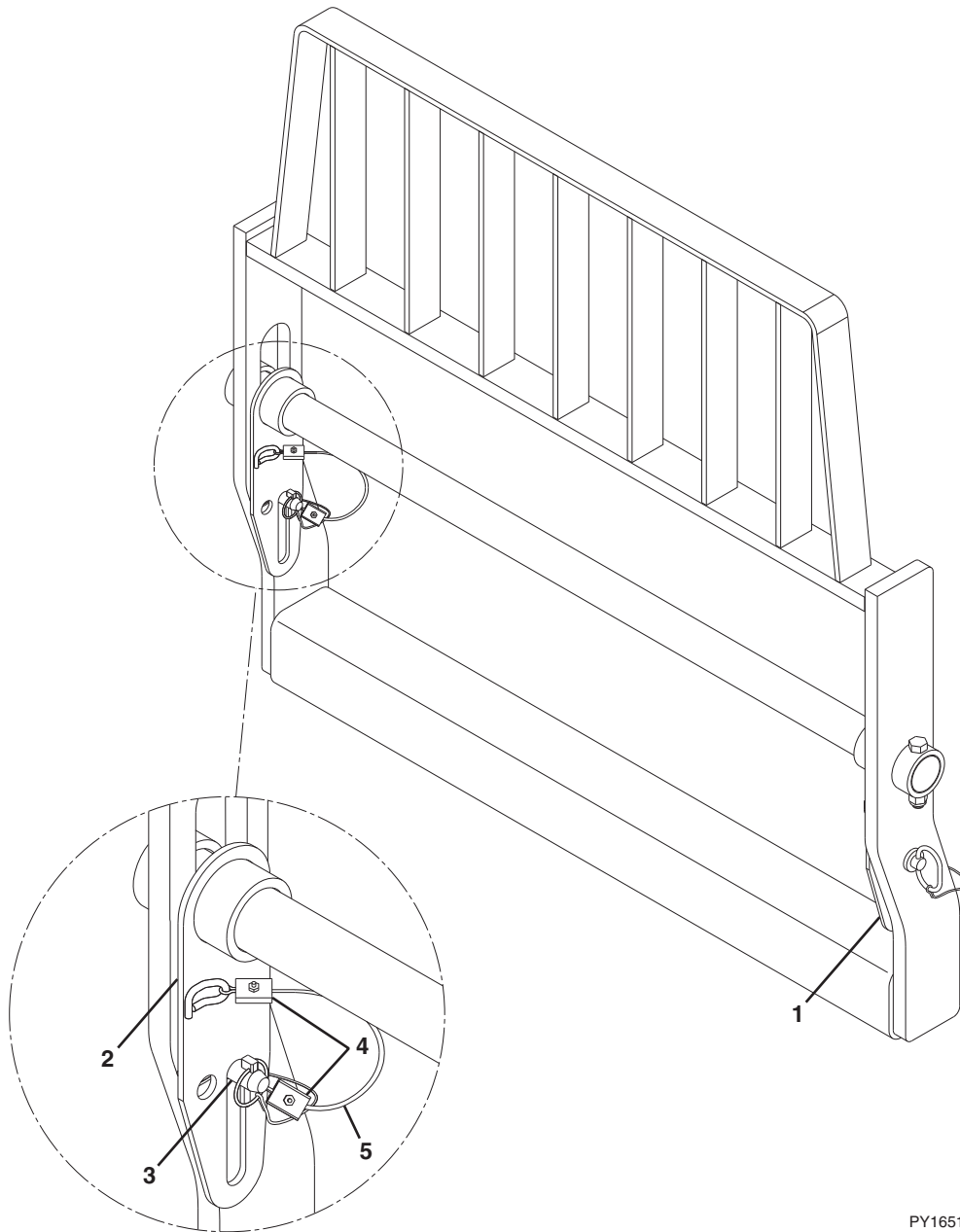
**Figure 3-8 Lifting Hook**

Item	Part Number	Qty.	Description	Rev.
1	91565094	1	LIFTING HOOK, (includes all items)	F
2	7029520	2	HAIRPIN CLIP	
3	90554080	1	SLING HOOK	
4	7029521	1	CHAIN SHACKLE ASSY, 12,000 LB, (includes pin)	
5	70020555	1	SPRING BUSHING	
6	1001093171	2	PIN	
7	NSS	1	S/N PLATE	

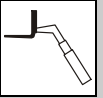


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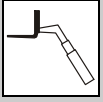
Figure 3-9 Fork Pin Lock Installation



PY1651

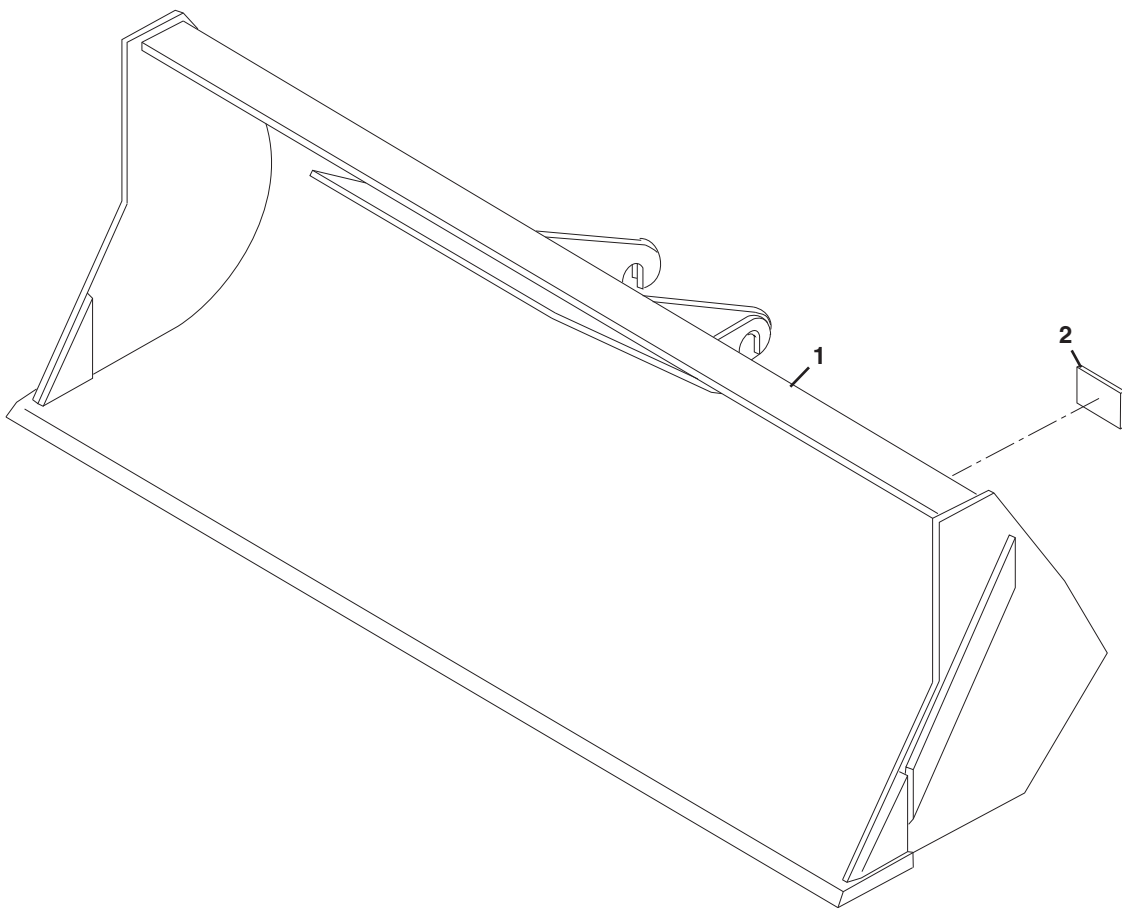
**Figure 3-9 Fork Pin Lock Installation**

Item	Part Number	Qty.	Description	Rev.
	1001093465	1	FORK PIN LOCK INSTALLATION, (includes all items)	B
1	0240156	1	LH FORK PIN LOCK	
2	1001093273	1	RH FORK PIN LOCK	
3	1001093377	2	HITCH PIN	
4	1001094830	4	CLAMP	
5	1001094330	2	LANYARD	

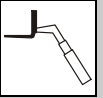


ATTACHMENTS

Figure 3-10 Buckets



PH4370

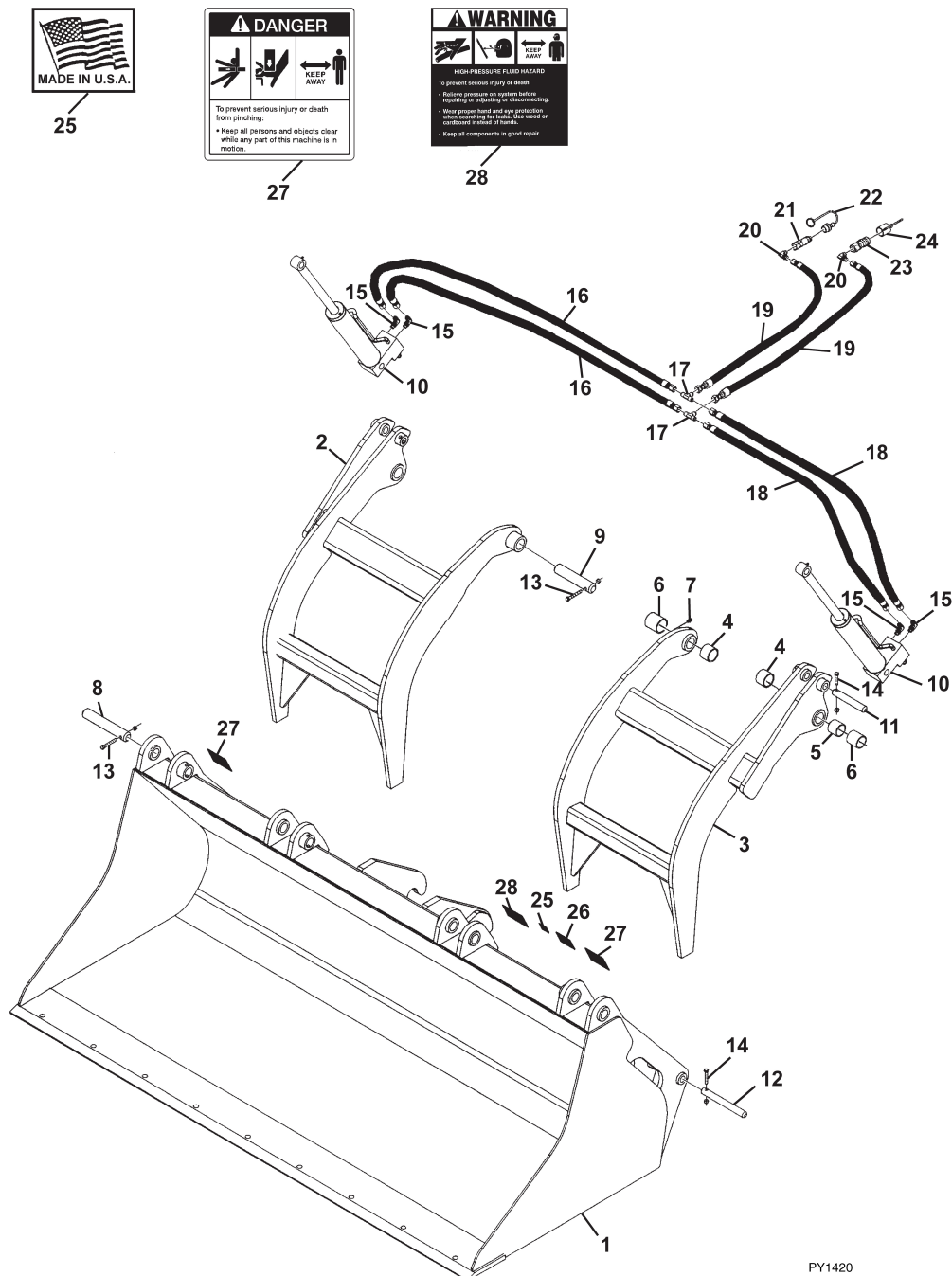
**Figure 3-10 Buckets**

Item	Part Number	Qty.	Description	Rev.
1	1001100822	1	72 IN BUCKET, 1.0 YD ³ , (includes item 2)	B
	1001100823	1	96 IN BUCKET, 1.5 YD ³ , (includes item 2)	B
	1001100824	1	102 IN BUCKET, 2.0 YD ³ , (includes item 2)	B
2	NSS	1	S/N PLATE	



ATTACHMENTS

Figure 3-11 Grapple Bucket



PY1420

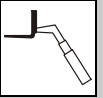
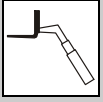


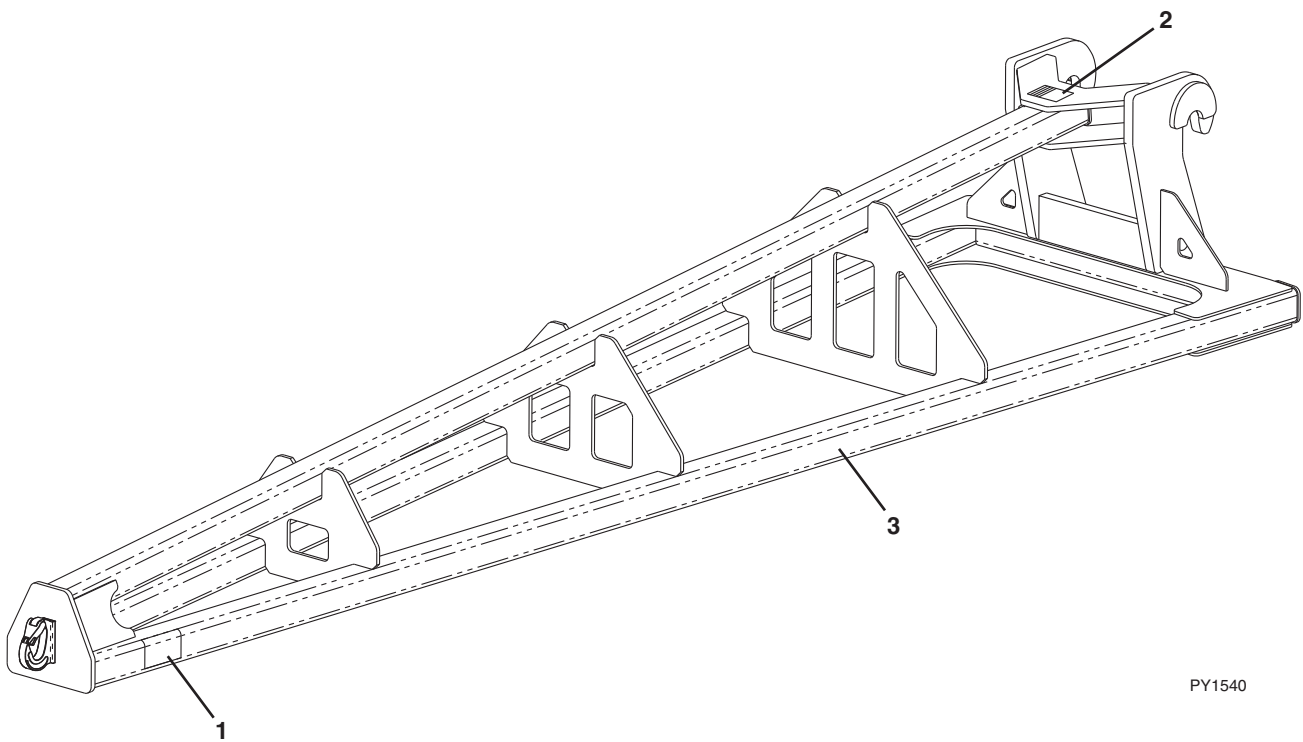
Figure 3-11 Grapple Bucket

Item	Part Number	Qty.	Description	Rev.
	0930020	1	GRAPPLE BUCKET, (includes all items)	G
1	NSS	1	BUCKET	
	70021387	4	HOSE CLAMP	
2	70021391	1	RIGHT GRAPPLE HOOK	
3	70021392	1	LEFT GRAPPLE HOOK	
4	70021358	4	BUSHING	
5	70021359	2	SPACER	
6	70021360	4	BUSHING	
7	7029714	4	GREASE FITTING	
8	70021361	2	OUTER PIVOT PIN	
9	70021362	2	INNER PIVOT PIN	
10		Ref	GRAPPLE BUCKET CYLINDER & MOUNTING HARDWARE, (see Figure 9-9 for details)	
11		Ref	CYLINDER PIN, (base end), (see Figure 9-9 for details)	
12		Ref	CYLINDER PIN, (rod end), (see Figure 9-9 for details)	
13	70021366	4	HEX HD CAPSCREW, 3/8X2-3/4	
	70021367	4	LOCK NUT, 3/8	
14		Ref	HEX HD CAPSCREW, 3/8X2-1/4, (see Figure 9-9 for details)	
		Ref	LOCKNUT, 3/8, (see Figure 9-9 for details)	
15	90554065	4	ELBOW, 90 DEGREES, (see Figure 9-9 for details)	
16	70021980	2	HOSE ASSY, 3/8X73	
17	70020562	2	FITTING, TEE	
18	70021981	2	HOSE ASSY, 3/8X46	
19	70021982	2	HOSE ASSY, 3/8X34	
20	70022527	2	ELBOW, 90 DEGREES	
21	7029692	1	MALE QUICK COUPLER	
22	90554062	1	DUST COVER	
23	70021342	1	FEMALE QUICK COUPLER	
24	90554076	1	DUST COVER	
25	90554016	1	MADE IN USA DECAL	
26	NSS	1	S/N PLATE	
27	90554017	2	DANGER PINCH POINT DECAL	
28	90554018	1	WARNING HIGH PRESSURE DECAL	

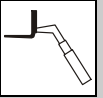


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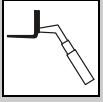
Figure 3-12 Truss Boom



PY1540

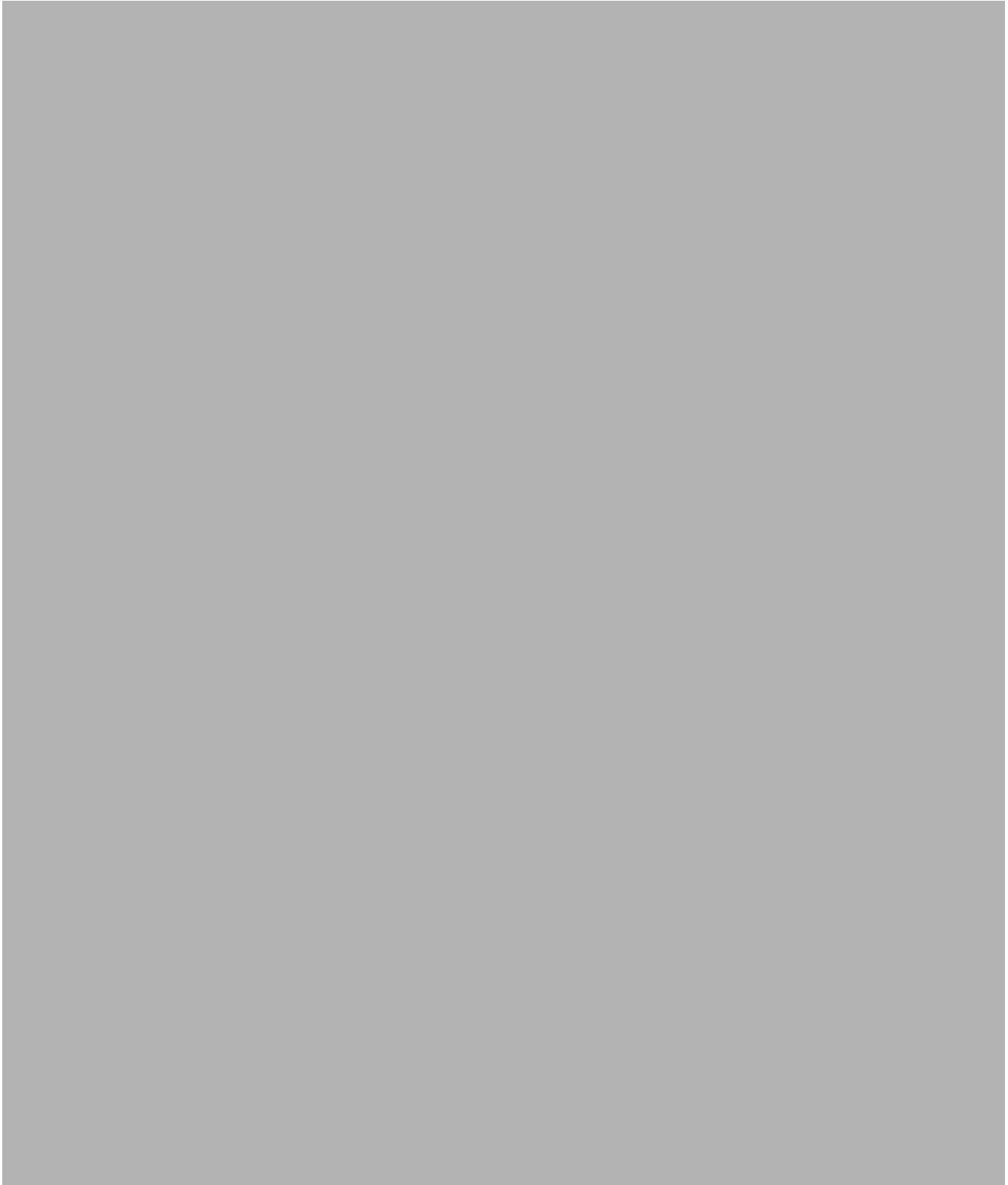
**Figure 3-12 Truss Boom**

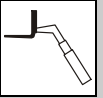
Item	Part Number	Qty.	Description	Rev.
	1001099902	1	12 FT TRUSS BOOM, (includes all items)	A
	1001099901	1	15 FT TRUSS BOOM, (includes all items)	A
1	4110422	2	WARNING SWINGING LOADS DECAL	
2	NSS	1	S/N PLATE	
3	NSS	1	TRUSS BOOM	



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Figure 3-13 12 Foot Truss Boom with Winch



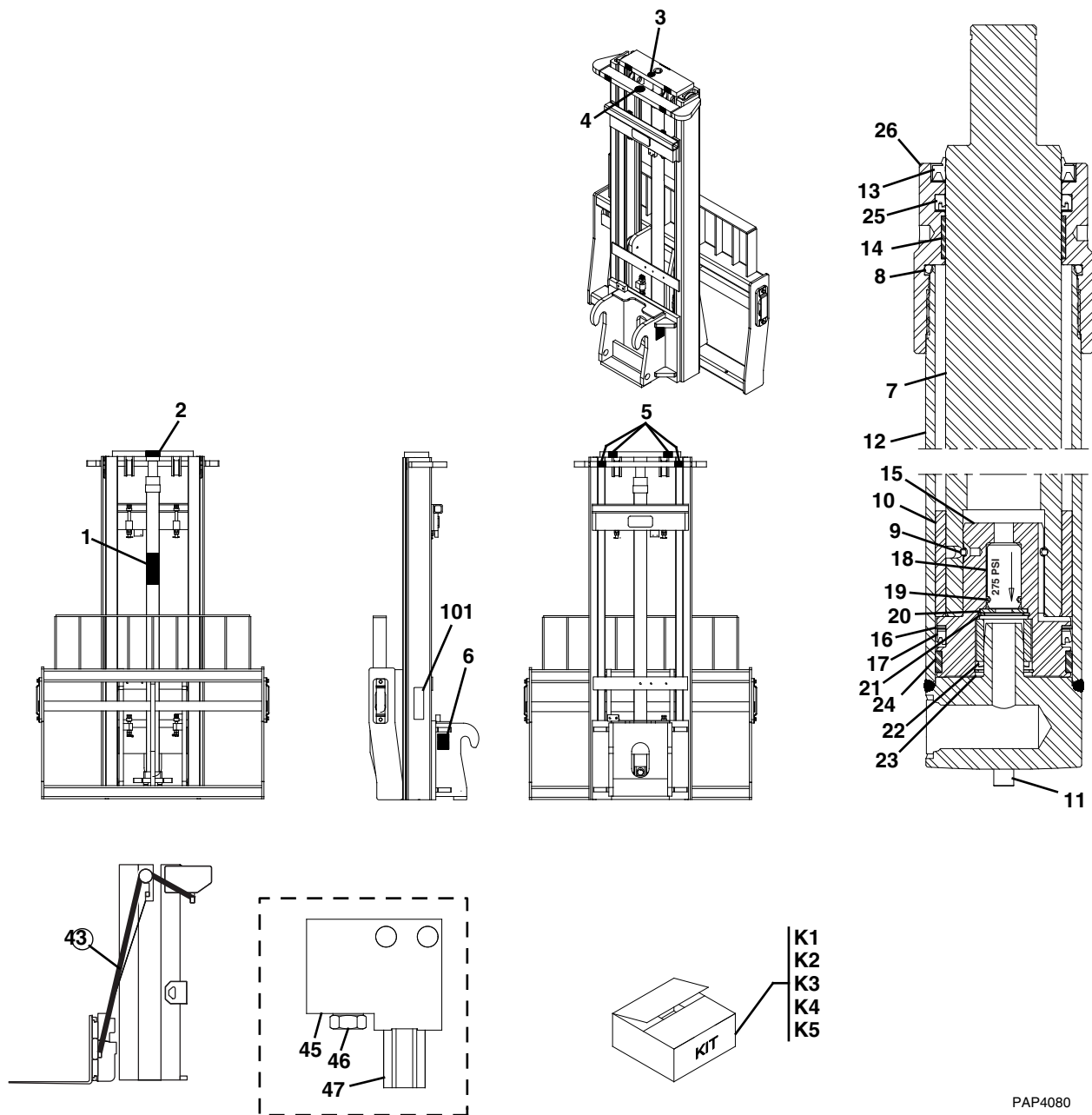
**Figure 3-13 12 Foot Truss Boom with Winch**

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



ATTACHMENTS

Figure 3-14 8 Foot Mast



PAP4080





ATTACHMENTS

Figure 3-14 8 Foot Mast

Item	Part Number	Qty.	Description	Rev.
	1001108668	1	8 FT MAST ASSY, (4500 LB) , (includes all items)	B
1	Use Kit K1	1	WARNING DECAL	
2	Use Kit K1	1	WARNING DECAL	
3	Use Kit K1	1	NO STEP DECAL	
4	Use Kit K1	1	NO STEP DECAL	
5	Use Kit K1	4	HANDS OFF DECAL	
6	Use Kit K1	2	HOSE ROUTING DECAL	
	70023008	1	MAIN LIFT CYLINDER, (includes items 7 thru 26)	
7	NSS	1	ROD/PLUNGER	
8	Use Kit K2	1	O-RING	
9	Use Kit K2	1	PULL WIRE	
10	NSS	1	SPACER	
11	NSS	2	ROLL PIN	
12	NSS	1	BARREL	
13	Use Kit K2	1	WIPER	
14	Use Kit K2	1	BUSHING	
15	NSS	1	PISTON	
16	Use Kit K2	1	NYLON RING	
17	Use Kit K2	1	PISTON SEAL	
18	Use Kit K3	1	CHECK VALVE	
19	Use Kit K2 or K3	1	O-RING	
20	Use Kit K3	1	WASHER	
21	Use Kit K2 or K3	1	CIRCLIP	
22	NSS	1	SLEEVE	
23	Use Kit K2 or K3	1	RETAINING RING	
24	Use Kit K2	1	WEAR RING	
25	Use Kit K2	1	ROD SEAL	
26	70023004	1	RETAINER/GLAND	
27	70023014	24	SHIM	
28	70022987	8	BALL BEARING	
29	Use Kit K5	2	WASHER SHIM	
30	70023016	1	SNAP RING	
31	70022969	2	SHEAVE ASSY	
32	70022960	2	CHAIN ANCHOR	
33	70022957	8	NUT, 0.625-18UNF	
34	70022993	4	COTTER PIN	
35	70022995	2	CHAIN ANCHOR	
36	70022984	1	SHEAVE SHAFT	
37	70022970	2	RETAINER BAR	
38	70023003	2	FLAT HD CAPSCREW	
39	70022994	4	CHAIN ANCHOR PIN	
40	70022992	8	COTTER PIN	
41	70022985	1	SHEAVE SHAFT	
43	70023009	2	LIFT CHAIN	
44	70022932	1	PO CHECK VALVE ASSY, (includes items 45, 46 & 47)	
45	NSS	1	MANIFOLD	
46	70022931	1	PO CHECK VALVE CARTRIDGE	
47	70023010	1	PO CHECK	
48	70022934	3	FITTING, 90 DEGREE	

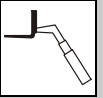


Figure 3-14 8 Foot Mast (Continued)

Item	Part Number	Qty.	Description	Rev.
49	70022936	1	FLOW LIMITER	
50	70022937	1	FITTING, 45 DEGREE	
51	70022949	2	LOCKWASHER, M10	
52	70022950	2	HEX SOCKET CAPSCREW	
53	70022942	1	HOSE ASSY	
54	70022952	1	HOSE ASSY	
55	91403414	1	MALE QUICK DISCONNECT COUPLING	
56	91043126	1	DUST CAP	
58	70022939	1	STRAIGHT FITTING, #6	
59	91403413	1	FEMALE QUICK DISCONNECT COUPLING	
60	91043125	1	DUST PLUG	
61	70022935	1	STRAIGHT THREAD ELBOW	
62	70022946	1	HOSE ASSY	
63	70022949	4	LOCKWASHER, M10	
64	70022980	2	FORK PIN KEEPER	
65	70022998	4	CAPSCREW, M10X20	
66	70022990	1	FORK PIN	
101	NSS	1	S/N PLATE	
K1	70023925	1	DECAL KIT, (includes items 1 thru 6)	
K2	70023005	1	MAIN LIFT CYLINDER SEAL KIT, (includes items 8, 9, 13, 14, 16, 17, 19, 21 & 23 thru 25)	
K3	70023006	1	CHECK VALVE KIT, (includes items 18 thru 21 & 23)	
K4	70023007	1	SHIM KIT	
K5	70023015	1	MAST COMMON PARTS KIT, (includes items 27 thru 41)	



ATTACHMENTS

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SECTION 4

ENGINE & ATTACHING PARTS

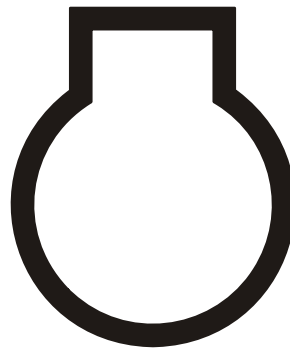




Figure 4-1 Engine Installation

IF EQUIPPED FOR ULS





Figure 4-1 Engine Installation

Item	Part Number	Qty.	Description	Rev.
	1001121242	Ref	ENGINE INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 21 for service)	B
1	0100011	AR	LOCTITE® 242™	
2	0681826	2	HEX HD CAPSCREW, 1/2-13X3-1/4, GR8, (torque to 95 lb-ft)	
3	0682228	1	HEX HD CAPSCREW, 3/4-10X3-1/2, GR8, (torque to 340 lb-ft)	
4	0711015	4	HEX HD CAPSCREW, M10X35, GR10.9, (torque to 65 Nm)	
5	0711016	4	HEX HD CAPSCREW, M10X40, GR10.9, (torque to 65 Nm)	
6	0711214	8	HEX HD CAPSCREW, M12X30, GR10.9, (torque to 115 Nm)	
7	4812000	8	WASHER, 10mm	
8	4812100	8	WASHER, 12mm	
9	7054351	1	REBOUND WASHER, LORD BOUNDED MOUNT	
10	7095831	2	REBOUND WASHER	
11	8278007	1	ENGINE MOUNT	
12	8278012	2	ENGINE MOUNT	
13	8305644	2	HEX LOCKNUT, 1/2-13	
14	8310067	1	HEX LOCKNUT, 3/4-10	
15	8405007	1	GEAR CLAMP	
16	1001109536	1	OIL DRAIN HOSE	
17	1001118742	1	ENGINE MOUNT BRACKET, REAR	
18	1001120687	1	PRIMARY FILTER BRACKET	
19		Ref	CUMMINS ENGINE, QSB3.3 85HP, TIER 4, (see Figure 4-2 for details)	
20	1001121596	1	RH ENGINE MOUNT	
21	1001125495	1	LH FRONT ENGINE MOUNT BRACKET	
	1001121245	Ref	FAN INSTALLATION, (not available to order, see items 101 thru 107 for service)	A
101	0710819	6	HEX HD CAPSCREW, M8X55, GR8.8	
102	0761012	6	HEX HD CAPSCREW, M10X25, GR8.8	
103	4811900	8	WASHER, 8mm	
104	4812000	6	WASHER, 10mm	
105	4832000	6	LOCKWASHER, 10mm	
106	1001121646	1	FAN	
107	1001129191	1	FAN SPACER COUPLER	
	7301500	Ref	COUPLER INSTALLATION, (not available to order, see items 201 thru 205 for service)	AA
201	8303755	8	HEX HD CAPSCREW, M10X1.5X30mm, GR8.8, (torque to 54-61 Nm)	
202	8303784	12	HEX HD CAPSCREW, M10X1.5X20mm, GR8.8, (torque to 54-61 Nm)	
203	8406105	1	TUBE CLIP	
204	8526007	AR	THREAD LOCK	
205		Ref	COUPLER, (see Figure 4-7 for details)	
	1001120341	Ref	ECM MOUNT INSTALLATION, (not available to order, see items 401 thru 403 for service)	B
401	0641516	4	HEX HD CAPSCREW, 5/16-18X2, GR5	
402	4711500	4	WASHER, 5/16	
403	4761500	4	LOCKWASHER, 5/16	
407		Ref	FUEL PLUMBING INSTALLATION, (see Figure 4-3 for details)	
510		Ref	AIR CLEANER INSTALLATION, (see Figure 4-5 for details)	
611		Ref	RADIATOR & OIL COOLER INSTALLATION, (see Figure 4-4 for details)	



ENGINE & ATTACHING PARTS

Figure 4-1 Engine Installation

Item	Part Number	Qty.	Description	Rev.
709		Ref	EXHAUST SYSTEM, (see Figure 4-6 for details)	



Figure 4-1 Engine Installation

Item	Part Number	Qty.	Description	Rev.



Figure 4-1 Engine Installation

IF EQUIPPED FOR LS





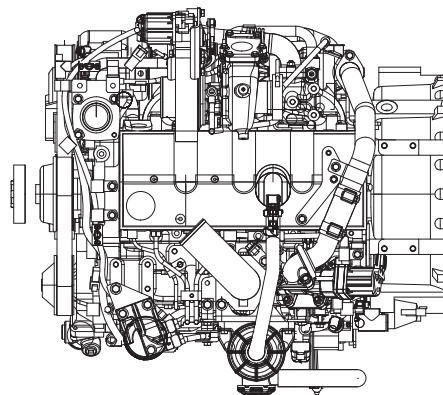
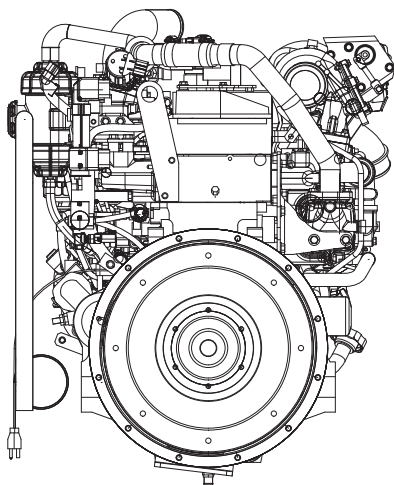
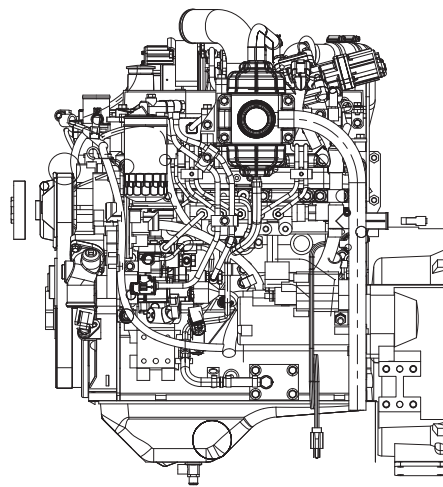
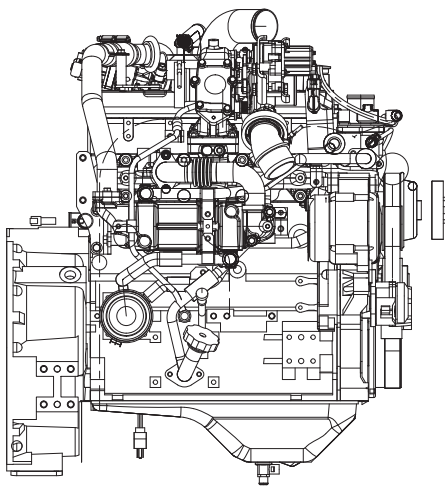
Figure 4-1 Engine Installation

Item	Part Number	Qty.	Description	Rev.
	1001131383	Ref	ENGINE INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 22 for service)	A
1	0100011	AR	LOCTITE® 242™	
2	0681826	2	HEX HD CAPSCREW, 1/2-13X3-1/4, GR8, (torque to 95 Nm/70 lb-ft)	
3	0682228	1	HEX HD CAPSCREW, 3/4-10X3-1/2, GR8, (torque to 460.9 Nm/340 lb-ft)	
4	0711015	8	HEX HD CAPSCREW, M10X35, GR10.9, (torque to 65 Nm/47.9 lb-ft)	
5	0701214	8	HEX HD CAPSCREW, M12X30, GR8.8, (torque to 115 Nm/84.8 lb-ft)	
6	0761010	2	HEX HD CAPSCREW, M10X20, GR8.8	
7	4812000	10	WASHER, 10mm	
8	4812100	8	WASHER, 12mm	
9	7054351	1	REBOUND WASHER, LORD BONDED MOUNT	
10	7095831	2	REBOUND WASHER	
11	8278007	1	RUBBER MOUNT	
12	8278012	2	CENTER BONDED MOUNT	
13	8305644	2	HEX LOCKNUT, 1/2-13	
14	831067	1	HEX LOCKNUT, 3/4-10	
15	8405007	1	GEAR CLAMP	
16	8406101	2	TUBE CLIP	
17	1001109536	1	OIL DRAIN HOSE	
18	1001118742	1	REAR ENGINE MOUNT BRACKET	
19	1001121596	1	ENGINE MOUNT, RH	
20	1001125495	1	ENGINE MOUNT BRACKET, RH FRONT	
21		Ref	CUMMINS ENGINE, QSB 3.3, (see Figure 4-2 for details)	
22	1001132004	1	PIPE SUPPORT BRACKET	
	1001131385	Ref	FAN INSTALLATION, (not available to order, see items 101 thru 104 for service)	A
101	4811900	4	WASHER, 8mm	
102	4831900	4	LOCKWASHER, 8mm	
103	10704137	4	HEX HD CAPSCREW, M8X65, GR10.9, (torque to 31 Nm/23 lb-ft)	
104	1001098559	1	FAN	
	7301500	Ref	COUPLER INSTALLATION, (not available to order, see items 201 thru 205 for service)	AA
201	8303755	8	HEX HD CAPSCREW, M10X30, GR8.8, (torque to 54-61 Nm/40-45 lb-ft)	
202	8303784	12	HEX HD CAPSCREW, M10X20, GR8.8, (torque to 54-61 Nm/40-45 lb-ft)	
203	8406105	1	TUBE CLIP	
204	8526007	AR	THREAD LOCK	
205		Ref	COUPLER, (see Figure 4-7 for details)	
	1001131384	Ref	ECM INSTALLATION MOUNT, (not available to order, see items 401 thru 403 for service)	C
301	0641516	4	HEX HD CAPSCREW, 5/16-18X2, GR5	
302	4711500	4	WASHER, 5/16	
303	4761500	4	LOCKWASHER, 5/16	
407		Ref	FUEL PLUMBING INSTALLATION, (see Figure 4-3 for details)	
509		Ref	AIR CLEANER INSTALLATION, (see Figure 4-5 for details)	
608		Ref	RADIATOR & OIL COOLER INSTALLATION, (see Figure 4-4 for details)	
708		Ref	EXHAUST SYSTEM, (see Figure 4-6 for details)	



Figure 4-2 Engine

IF EQUIPPED FOR ULS



PA5350



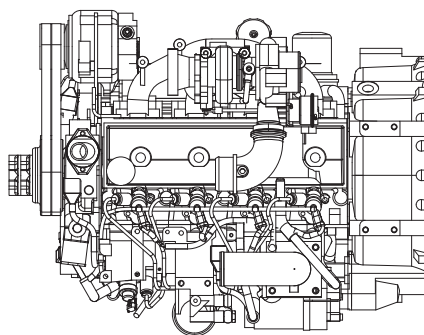
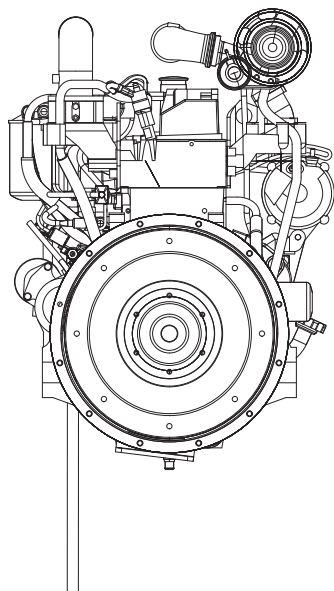
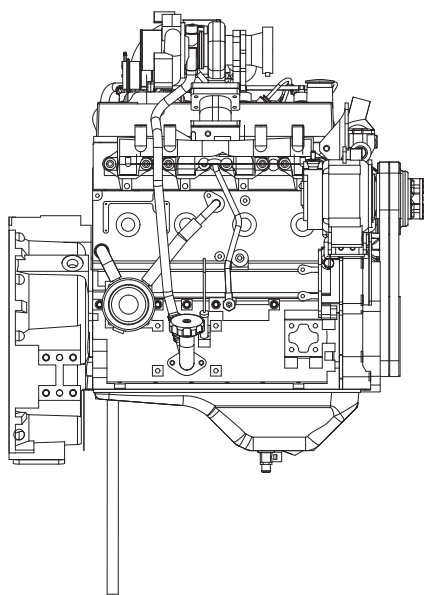
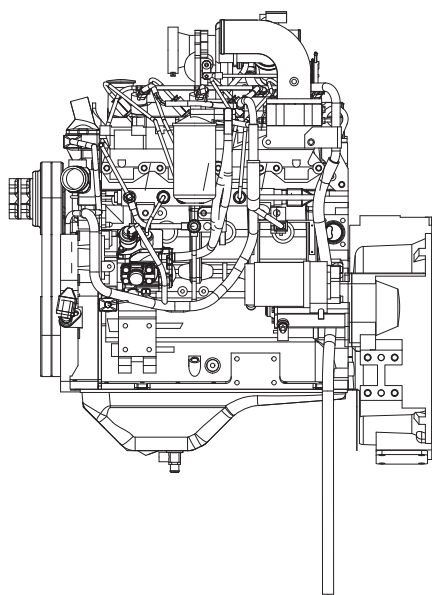
Figure 4-2 Engine

Item	Part Number	Qty.	Description	Rev.
	1001121252	1	ENGINE, QSB 3.3, (85HP), (if equipped for ULS), (includes all items)	C
	70024274	1	FAN BELT	
	70024275	1	FAN SPACER	
	70024276	1	ALTERNATOR	
	70024277	1	STARTER	
	70024278	1	OIL FILTER ELEMENT	
	70024279	1	DIPSTICK	
	70024280	1	DIPSTICK TUBE	
	70022842	1	OIL FILL CAP	
	70024281	1	THERMOSTAT	
	70024282	1	SECONDARY FUEL FILTER	
	70024283	1	PRIMARY FUEL FILTER	
	70022844	1	OIL PAN PLUG	
	70024284	1	CRANKCASE VENT FILTER ELEMENT	



Figure 4-2 Engine

IF EQUIPPED FOR LS



PA5360



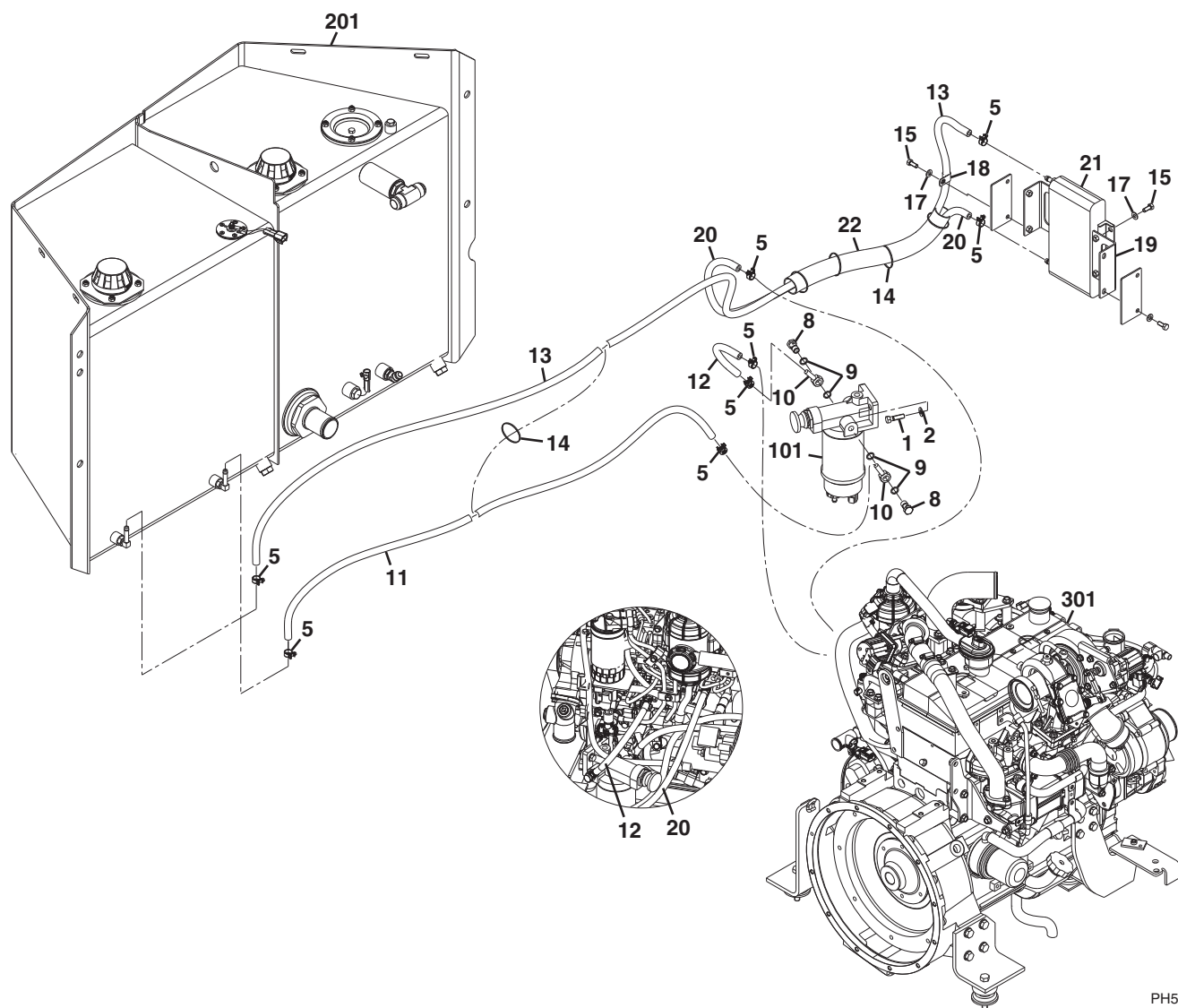
Figure 4-2 Engine

Item	Part Number	Qty.	Description	Rev.
	1001131344	1	ENGINE, QSB 3.3, (99HP), (if equipped for LS), (includes all items)	B
	70024285	1	FAN BELT	
	70021849	1	ALTERNATOR	
	70021850	1	STARTER	
	8036204	1	OIL FILTER ELEMENT	
	70021584	1	DIPSTICK	
	70023565	1	DIPSTICK TUBE	
	70022842	1	OIL FILL CAP	
	70024286	1	THERMOSTAT	
	70022846	1	PRIMARY FUEL FILTER ELEMENT	
	70022844	1	OIL PAN PLUG	



Figure 4-3 Fuel System

IF EQUIPPED FOR ULS



PH5470



Figure 4-3 Fuel System

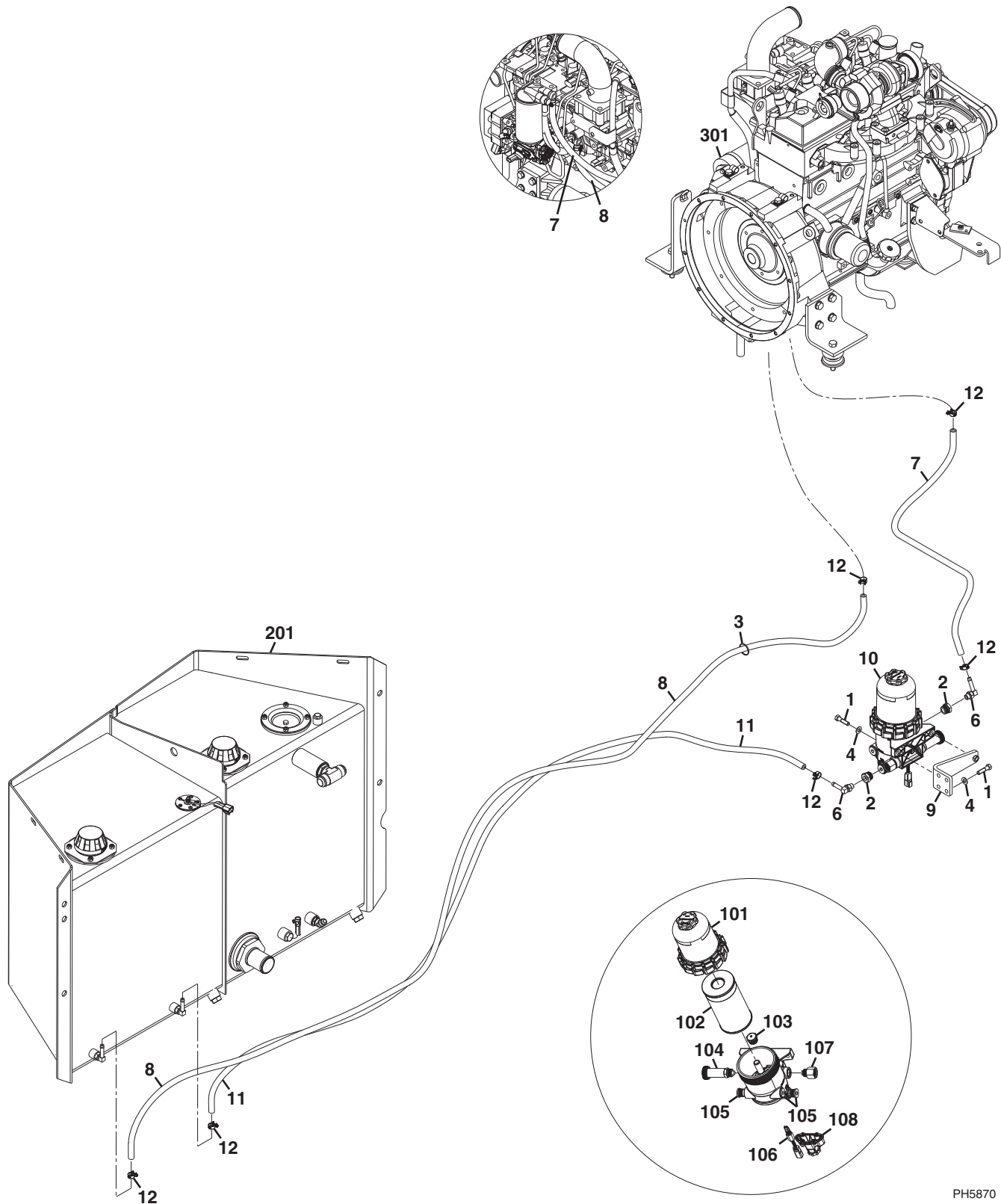
Item	Part Number	Qty.	Description	Rev.
	1001121256	Ref	FUEL LINES INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 22 for service)	G
1	0641611	2	HEX HD CAPSCREW, 3/8-16X1-3/8	
2	4711600	2	PLAIN WASHER, 3/8	
5	1001136975	8	FUEL HOSE CLAMP	
8	1001102931	2	BANJO BOLT, M14	
9	1001102933	4	COPPER RING SEAL	
10	1001113511	2	BANJO ADAPTER, M14X3/8	
11	1001125038	1	FUEL SUPPLY FILTER HOSE	
12	1001125039	1	FUEL SUPPLY ENGINE HOSE	
13	1001134467	1	FUEL RETURN HOSE	
14	4240017	5	TIE STRAP	
15	0641506	8	HEX HD CAPSCREW, 5/16-18X3/4	
17	4711500	7	PLAIN WASHER, 5/16	
18	8406101	1	TUBE CLIP, 5/8	
19	1001138700	2	FUEL COOLER BRACKET	
20	1001134466	1	FUEL RETURN HOSE	
21	1001134516	1	FUEL RADIATOR	
22	1001136358	1	ABRASION SLEEVE	
101		1	FUEL FILTER, (see Figure 4-2 for details)	
201		Ref	FUEL & HYDRAULIC TANK, (see Figure 9-12 for details)	
301		Ref	CUMMINS ENGINE, QSB3.3, 100HP TIER IV, (see Figure 4-2 for details)	



ENGINE & ATTACHING PARTS

Figure 4-3 Fuel System

IF EQUIPPED FOR LS



PH5870



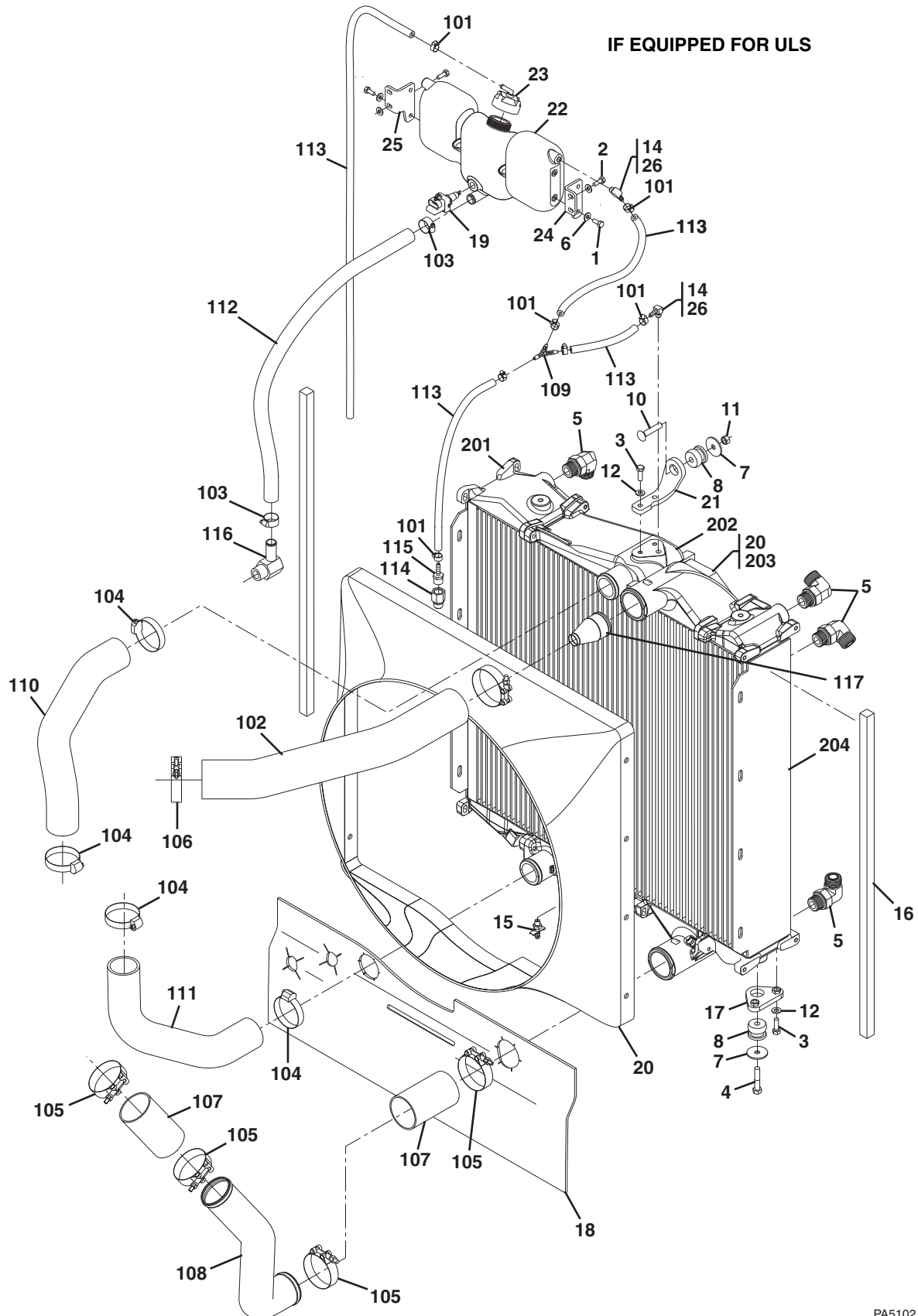
Figure 4-3 Fuel System

Item	Part Number	Qty.	Description	Rev.
	1001121257	Ref	FUEL PLUMBING INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 12 for service)	C
1	0641612	6	HEX HD CAPSCREW, 3/8-16X1-1/2	
2	2220218	2	STRAIGHT ADAPTER, (includes o-ring)	
3	4240017	1	TIE STRAP	
4	4711600	6	PLAIN WASHER, 3/8	
6	8430034	2	ELBOW, 90 DEGREES, (includes o-ring)	
7	1001136157	1	FUEL SUPPLY TO ENGINE HOSE	
8	1001125040	1	FUEL RETURN HOSE	
9	1001132173	1	FUEL FILTER BRACKET	
10	1001133534	1	FUEL FILTER, (includes items 101 thru 108)	
11	1001135011	1	FUEL FILTER HOSE	
12	1001136975	6	FUEL HOSE CLAMP	
101	70024155	1	COVER ASSY, (includes vent cap, vent cap o-ring, collar, cover, cover o-ring & spring)	A
102	70024156	1	FILTER ELEMENT	
103	70024157	1	CHECK VALVE ASSY	
104	70024158	1	PRIMER	
105	70024159	3	PLUG	
106	70024160	1	WATER-IN-FUEL (WIF) SENSOR	
107	70024161	1	CHECK VALVE	
108	70024162	1	BOTTOM BOWL ASSY, (includes bottom bowl seal, bottom bowl screws, drain valve o-ring & drain valve)	
201		Ref	FUEL & HYDRAULIC TANK, (see Figure 9-12 for details)	
301		Ref	CUMMINS ENGINE, QSB3.3, 110HP TIER III, (see Figure 4-2 for details)	



ENGINE & ATTACHING PARTS

Figure 4-4 Radiator & Oil Cooler Mounting



PA5102



Figure 4-4 Radiator & Oil Cooler Mounting

Item	Part Number	Qty.	Description	Rev.
	1001121255	Ref	COOLING INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 26 for service)	D
1	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8, GR5, (torque to 70 lb-in)	
2	0641406	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
3	0641508	6	HEX HD CAPSCREW, 5/16-18X1, GR5	
4	0641614	2	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
5	2131212	4	ADAPTER, 90 DEGREES, (includes o-ring)	
6	4711400	8	WASHER, 1/4	
7	7057141	3	REBOUND WASHER	
8	8278020	3	RUBBER ISOLATOR MOUNT	
10	8310281	1	CARRIAGE BOLT, 3/8-16X2-1/4, GR2	
11	8305008	1	HEX NUT, 3/8-16	
12	8307106	6	WASHER, 5/16	
14	8420213	2	ELBOW, 90 DEGREES, (hose barb)	
15	91343011	1	DRAINCOCK	
16	1001109230	2	FOAM GASKET SEAL	
17	1001120869	2	COOLER MOUNT LOWER BRACKET	
18	1001120947	1	AIR DAM PANEL	
19	1001121955	1	COOLANT LEVEL SENSOR	
20	1001127591	1	RADIATOR ASSEMBLY, (includes items 201 thru 204)	F
21	1001127980	1	RADIATOR UPPER MOUNT	
22	1001128338	1	DEAERATION TANK	
23	1001128341	1	PRESSURE PLUG CAP	
24	1001128342	1	TLH ANK BRACKET	
25	1001128343	1	RH TANK BRACKET	
26	1001097335	AR	LOCTITE® 567™	
	1001121271	Ref	COOLER PLUMBING INSTALLATION, (not available to order, see items 101 thru 118 for service)	E
101	1320022	7	WORM GEAR CLAMP	
102	1001127418	1	OUTLET PIPE	
103	8405007	2	GEAR CLAMP	
104	8405201	4	GEAR CLAMP	
105	8405211	4	T-BOLT CLAMP	
106	8405212	3	T-BOLT CLAMP	
107	1001114495	2	HOSE	
108	1001120068	1	INLET PIPE	
109	1001128510	1	HOSE BARB COUPLING	
110	1001121493	1	UPPER RADIATOR PIPE	
111	1001121494	1	LOWER RADIATOR PIPE	
112	1001122560	1	DRAWDOWN HOSE	
113	1001122565	1	VENT HOSE	
114	1001122801	1	ADAPTER, STRAIGHT	
115	1001122807	1	HOSE BARB COUPLING	
116	1001133871	1	PIPE FITTING, ELBOW, 45 DEGREES	
117	1001140672	1	REDUCER PIPE	
201	70024148	1	TRANSMISSION COOLER	
202	70024149	1	WATER/GLYCOL COOLER	
203	70024150	1	CAC COOLER	



ENGINE & ATTACHING PARTS

Figure 4-4 Radiator & Oil Cooler Mounting (Continued)

Item	Part Number	Qty.	Description	Rev.
204	70024151	1	OIL COOLER	

**Figure 4-4 Radiator & Oil Cooler Mounting (Continued)**

Item	Part Number	Qty.	Description	Rev.



ENGINE & ATTACHING PARTS

Figure 4-4 Radiator & Oil Cooler Mounting

IF EQUIPPED FOR LS

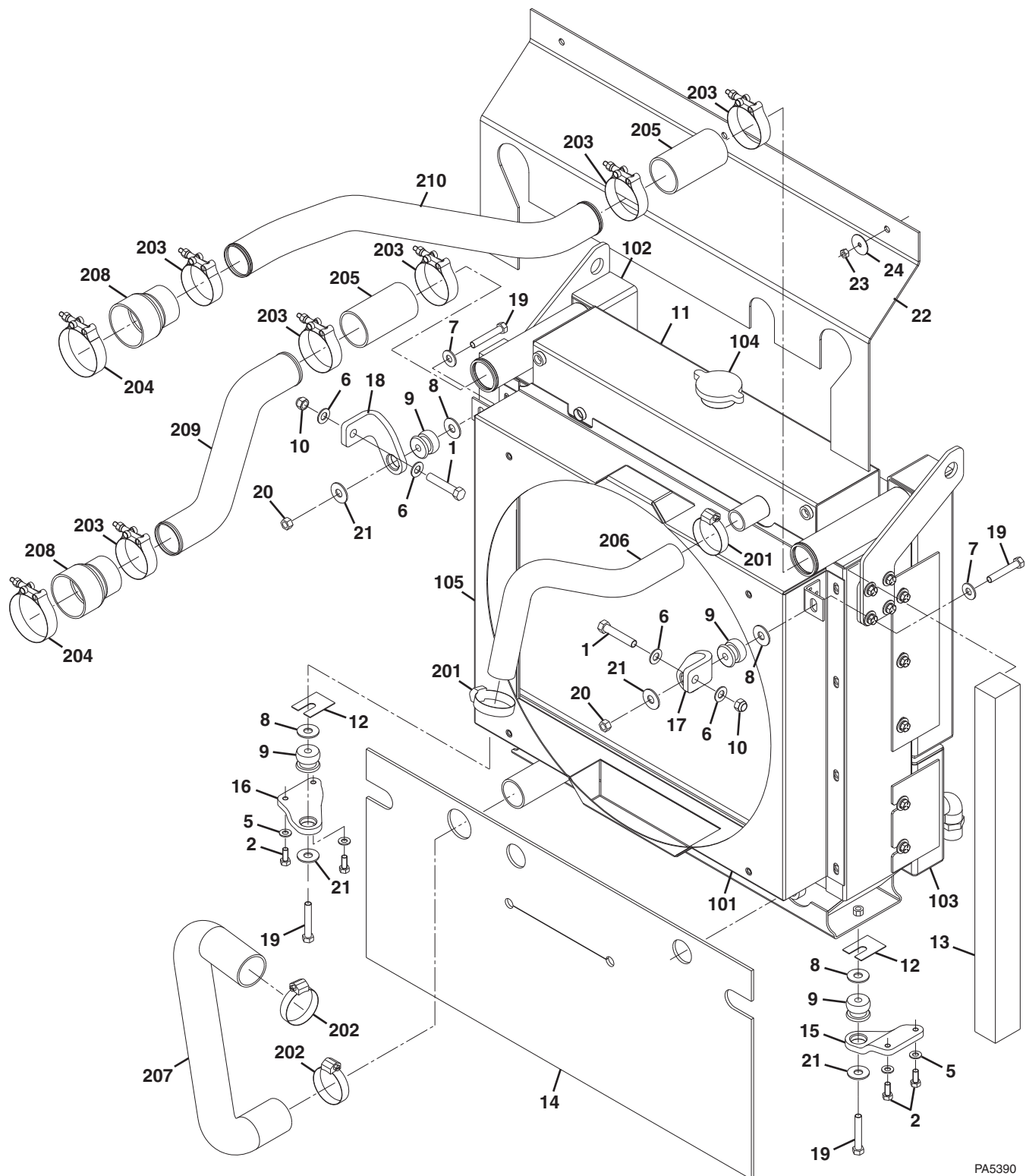




Figure 4-4 Radiator & Oil Cooler Mounting

Item	Part Number	Qty.	Description	Rev.
	1001131387	Ref	COOLING INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 17 for service)	C
1	0641718	2	HEX HD CAPSCREW, 7/16-14X2-1/4	
2	0681506	4	HEX HD CAPSCREW, 5/16-18X3/4	
5	4711500	4	PLAIN WASHER, 5/16	
6	4711700	4	NARROW WASHER, 7/16	
7	4751600	2	PLAIN WASHER, 3/8	
8	4751700	4	PLAIN WASHER, 7/16	
9	8278020	4	RUBBER ISOLATOR MOUNT	
10	8310109	2	HEX LOCKNUT, 7/16-14	
11	1001111821	1	RADIATOR ASSY, (includes items 101 thru 104)	
12	1001114780	2	SHIM, 0.048	
13	1001131594	2	FOAM GASKET SEAL	
14	1001131596	1	AIR DAM PANEL	
15	1001131819	1	RIGHT LOWER COOLER BRACKET	
16	1001131820	1	LEFT LOWER COOLER BRACKET	
17	1001131958	1	LEFT UPPER COOLER BRACKET	
18	1001131959	1	RIGHT UPPER COOLER BRACKET	
19	0641618	4	HEX HD CAPSCREW, 3/8-16X2-1/4	
20	3311605	2	HEX LOCKNUT, 3/8-16, GR2	
21	7057141	4	REBOUND WASHER	
22	1001102212	1	AIR DAM	
23	3311401	3	HEX NUT, 1/4-20	
24	4740362	3	FENDER WASHER	
101	70022694	2	SHROUD	
102	70023600	1	CHARGE AIR COOLER	
103	70023601	1	HYDRAULIC OIL COOLER	
104	70022695	1	CAP	
105	70022696	1	RADIATOR	
	1001121272	Ref	PLUMBING COOLER INSTALLATION, (if equipped for LS), (not available to order, see items 201 thru 210 for service)	B
201	8405104	2	GEAR CLAMP, 2.25 MAX DIA	
202	8405201	2	T-BOLT CLAMP	
203	8933070	6	HEAVY DUTY T-BOLT CLAMP	
204	91163129	2	T-BOLT CLAMP	
205	91563070	2	RUBBER HOSE COUPLING	
206	1001096435	1	UPPER RADIATOR HOSE	
207	1001096436	1	LOWER RADIATOR HOSE	
208	1001117244	2	REDUCER COUPLING	
209	1001131645	1	CAC TO ENGINE PIPE	
210	1001131646	1	TURBO TO CAC PIPE	



Figure 4-5 Air Cleaner Assembly

IF EQUIPPED FOR ULS



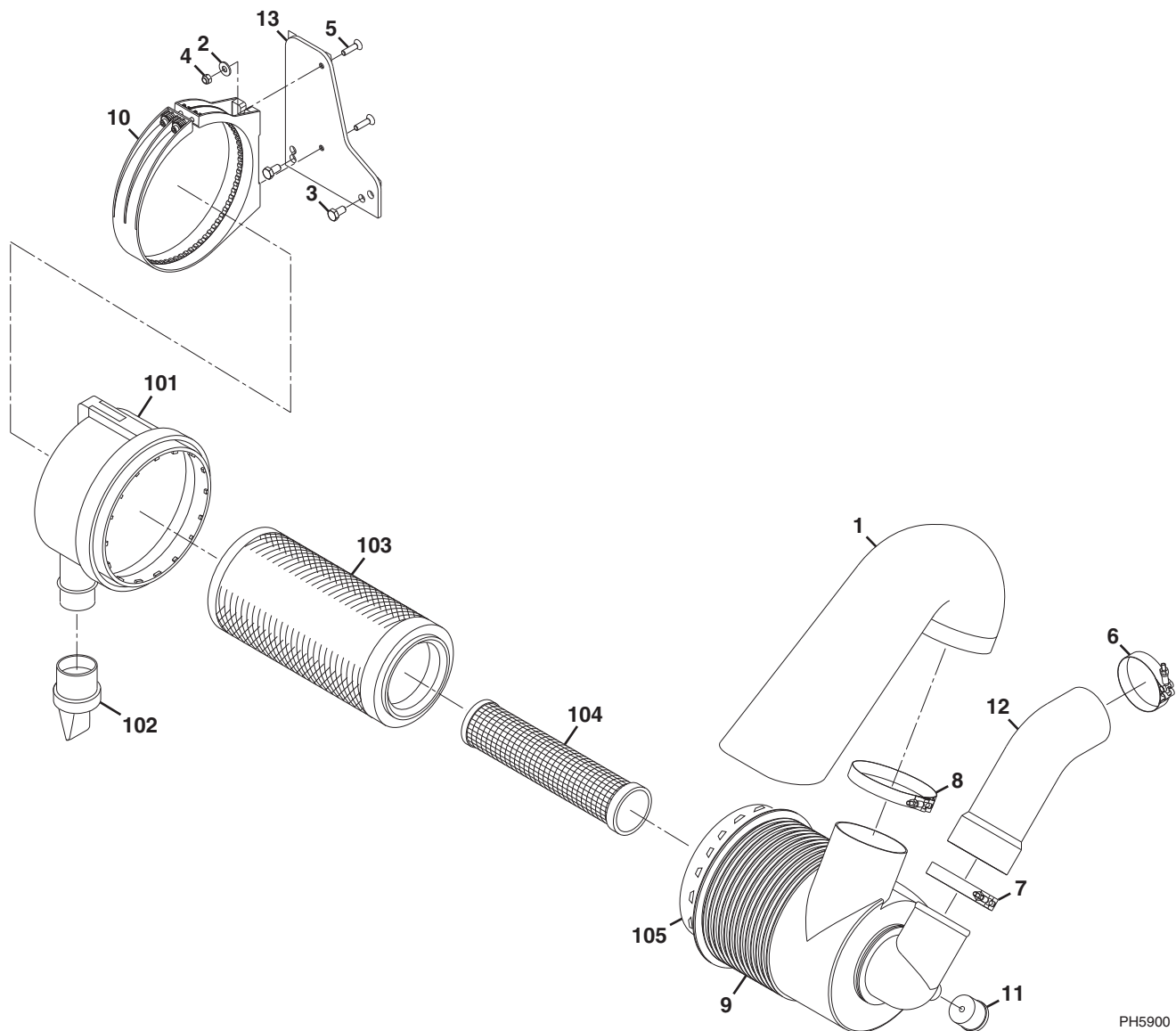
Figure 4-5 Air Cleaner Assembly

Item	Part Number	Qty.	Description	Rev.
	1001121246	Ref	AIR CLEANER INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 19 for service)	D
1	0100011	AR	LOCTITE® 242™	
2	0760612	4	HEX HD CAPSCREW, M6X25, GR8.8	
3	4811700	4	WASHER, 6mm	
4	8303798	4	HEX HD CAPSCREW, M10X25, GR8.8	
5	8307221	4	PLAIN WASHER, M10	
6	8405301	3	GEAR CLAMP, 4.00 MAX DIA	
7	8405502	1	GEAR CLAMP, 6.00 MAX DIA	
8	8405402	1	HOSE CLAMP	
9	1001120082	1	AIR INTAKE HOSE	
10	1001120083	1	AIR INTAKE HOSE	
11	1001134843	1	AIR INTAKE HOSE	
12	1001128507	1	AIR FILTER BRACKET WELDMENT	
13	1001128544	1	AIR FILTER, (includes items 101 thru 105)	D
14	1001128808	1	AIR FILTER PIPE	
15	2180104	1	ADAPTER, STRAIGHT	
16	2221301	1	ADAPTER, 90 DEGREES	
17	8420221	2	HOSE BARB COUPLING	
18	91563129	1	RESTRICTION INDICATOR	
19	1001134844	1	AIR RESTRICTION VACUUM HOSE	
101	70024177	1	PRIMARY ELEMENT	
102	70024176	1	SAFETY ELEMENT	
103	70024269	1	COVER	
104	70024270	1	VACUATOR VALVE	
105	70024271	1	PRE-CLEANER	



Figure 4-5 Air Cleaner Assembly

IF EQUIPPED FOR LS



PH5900



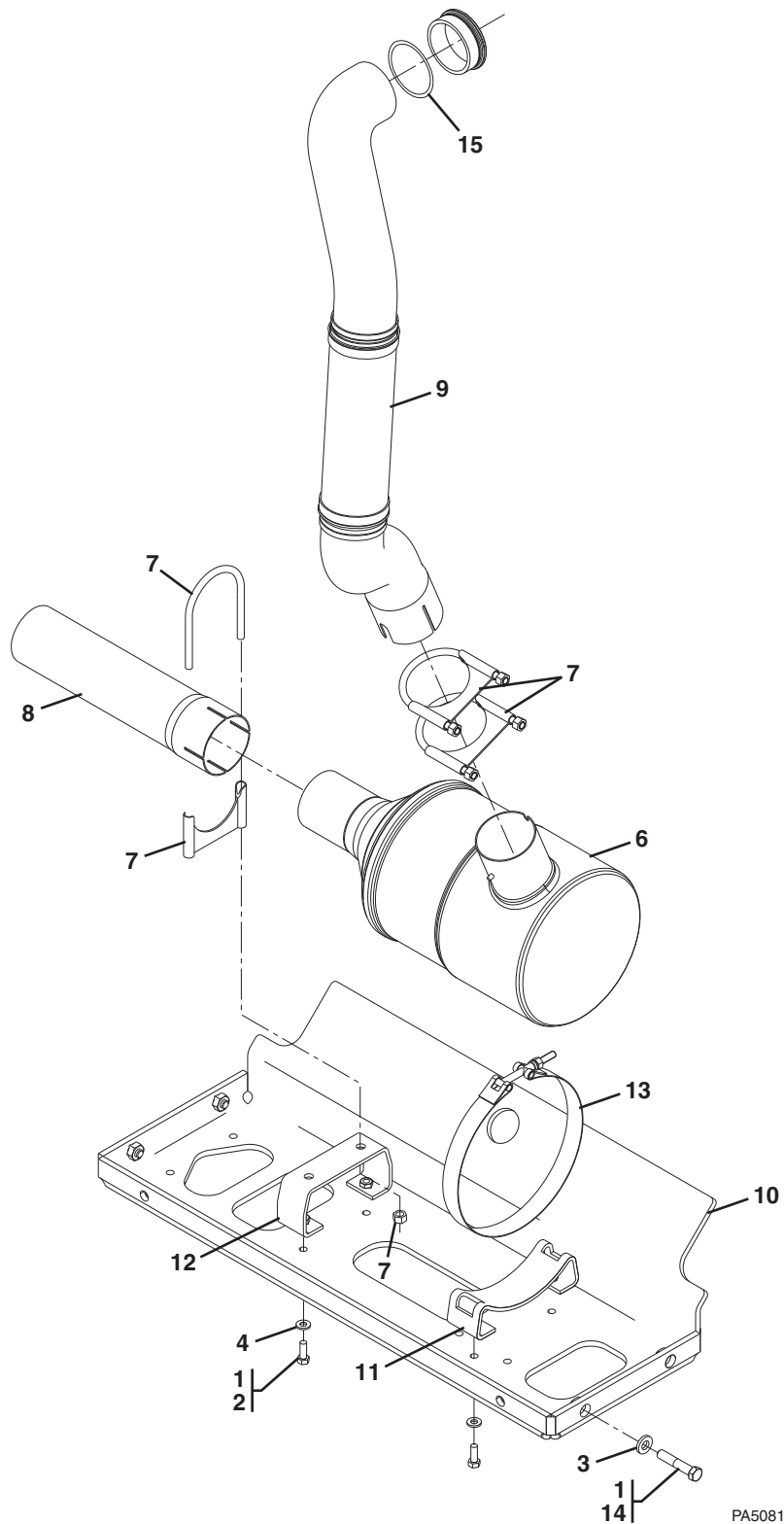
Figure 4-5 Air Cleaner Assembly

Item	Part Number	Qty.	Description	Rev.
	1001121247	Ref	AIR CLEANER INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 13 for service)	B
1	2720637	1	AIR INTAKE SCOOP	C
2	4751500	2	PLAIN WASHER, 5/16	
3	8303784	2	HEX HD CAPSCREW, M10X1.5X20mm, PC8.8	
4	8305626	2	HEX LOCKNUT, 5/16-18	
5	8310494	2	SCREW, 5/16-18X1-1/4, GR8	
6	8405305	1	T-BOLT CLAMP, 3.38 ID	
7	8405505	1	T-BOLT CLAMP, 4.06 ID	
8	8410021	1	T-BOLT CLAMP, 5.00 ID	
9	10268515	1	AIR CLEANER, (includes items 101 thru 105)	
10	10268516	1	MOUNTING BAND	
11	91563129	1	RESTRICTION INDICATOR	
12	1001098977	1	AIR INTAKE PIPE	
13	1001131488	1	AIR CLEANER MOUNT	
101	91364023	1	COVER ASSY	
102	80373094	1	VACUATOR VALVE	
103	1101312	1	PRIMARY FILTER ELEMENT	
104	1101313	1	SECONDARY FILTER ELEMENT	
105	NSS	1	AIR CLEANER BODY	



Figure 4-6 Exhaust System

IF EQUIPPED FOR ULS



PA5081

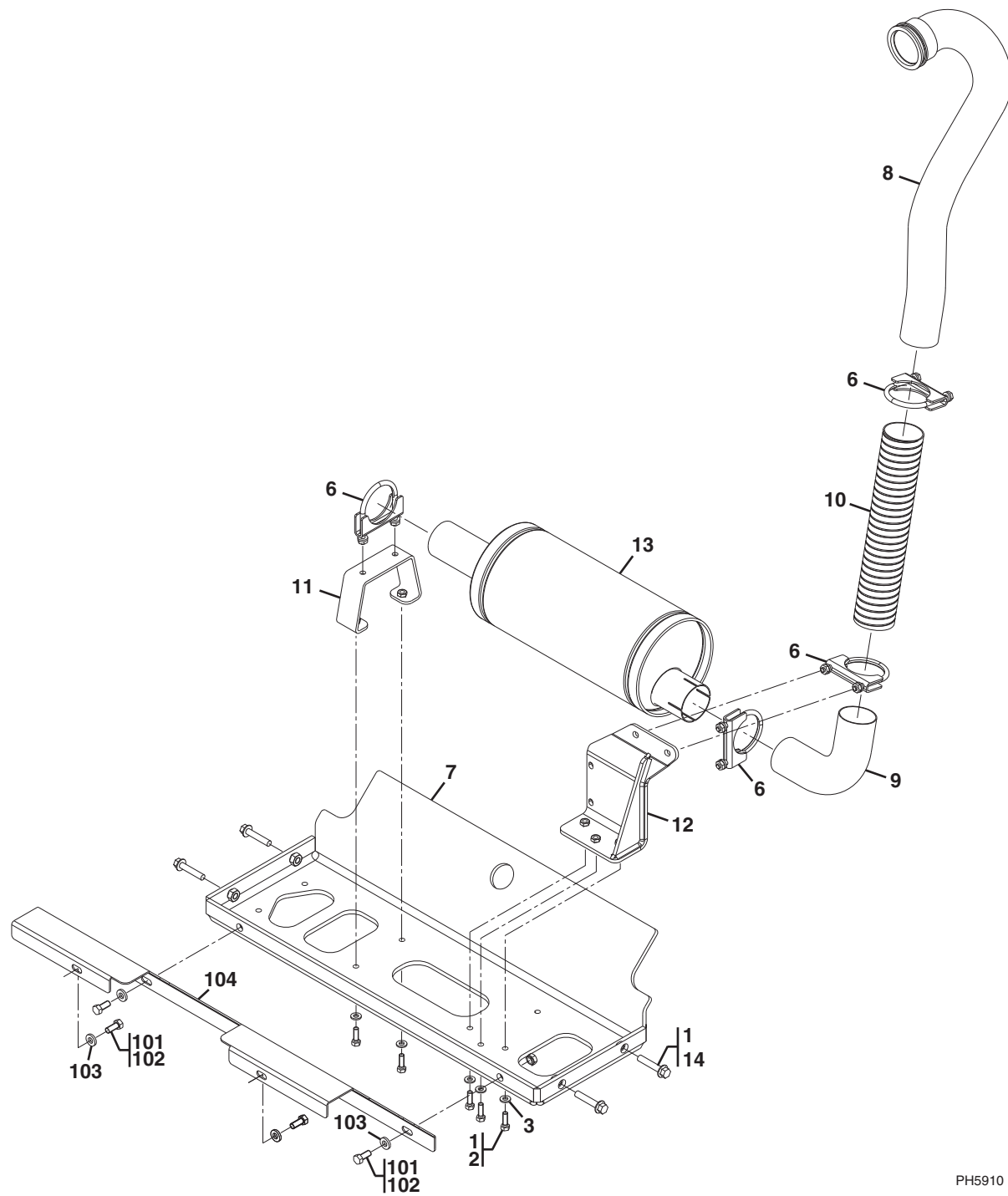
**Figure 4-6 Exhaust System**

Item	Part Number	Qty.	Description	Rev.
	1001129497	Ref	DOC INSTALL, (if equipped for ULS), (not available to order, see items 1 thru 13 for service)	C
1	0100011	AR	LOCTITE® 242™	
2	0641507	4	HEX HD CAPSCREW, 5/16-18X7/8, GR5, (torque to 20 lb-ft)	
3	4891700	4	WASHER, 7/16	
4	4891500	4	WASHER, 5/16	
5	10700334	4	HEX HD SCREW, 7/16-14NCX2-1/4, GR8, (torque to 65 lb-ft)	
6	1001127855	1	DOC AFTERTREATMENT	
7	24921332	3	EXHAUST CLAMP	
8	1001127856	1	EXHAUST PIPE	
9	1001127857	1	EXHAUST FLEX PIPE	
10	1001127858	1	DOC MOUNT WELDMENT PLATE	
11	1001128363	1	DOC MOUNT BRACKET ASSY	
12	1001128364	1	DOC PIPE MOUNT BRACKET ASSY	
13	1001128901	1	DOC STRAP CLAMP, (torque to 15 lb-ft)	
14	0791718	4	WHIZ-LOCK SCREW, 7/16-14X2-1/4	
15	1001139846	1	ORIFICE PLATE	



Figure 4-6 Exhaust System

IF EQUIPPED FOR LS



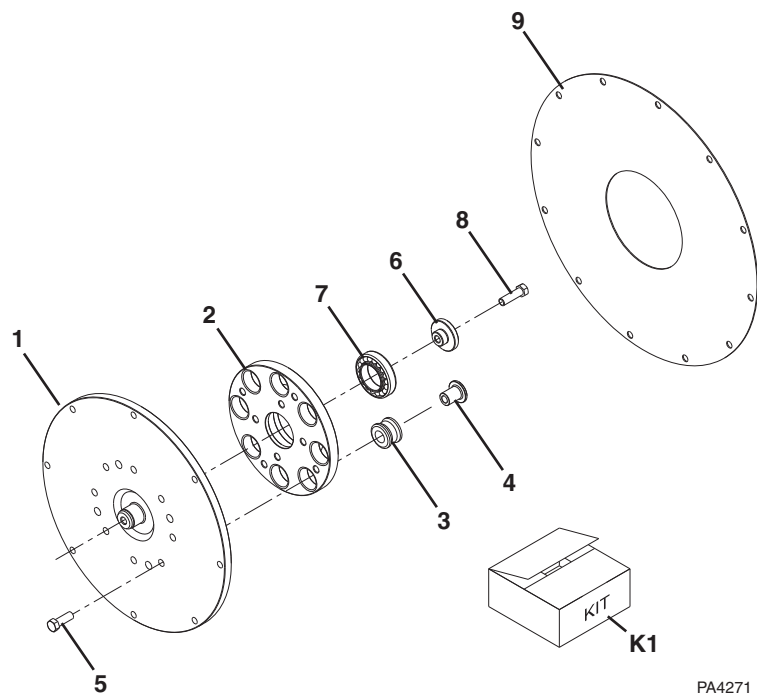
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**Figure 4-6 Exhaust System**

Item	Part Number	Qty.	Description	Rev.
	1001131485	Ref	MUFFLER INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 14 for service)	B
1	0100011	AR	LOCTITE®, 242™	
2	0641508	5	HEX HD CAPSCREW, 5/16-18X1, GR5, (torque to	
3	4891500	5	WASHER, 5/16	
6	83683175	4	MUFFLER CLAMP	
7	1001127858	1	DOC MOUNT PLATE	
8	1001131576	1	EXHAUST PIPE	
9	1001131577	1	EXHAUST ELBOW	
10	1001131578	1	EXHAUST FLEX PIPE	
11	1001131772	1	MUFFLER MOUNT	
12	1001131996	1	MUFFLER SUPPORT	
13	1001132154	1	MUFFLER	
14	0791718	4	WHIZ-LOK SCREW, 7/16-14X2-1/4	
122	1001132004	1	PIPE SUPPORT BRACKET	
	1001127864	Ref	DUST SHIELD INSTALLATION, (not available to order, see items 101 thru 104 for service)	A
101	0100011	AR	LOCTITE® 242™, (apply to item 102)	
102	0641607	4	HEX HD CAPSCREW, 3/8-16X7/8	
103	4891600	4	WASHER, 3/8	
104	1001127867	1	DUST BAFFLE FRONT PANEL	



Figure 4-7 Isolation Coupler



**Figure 4-7 Isolation Coupler**

Item	Part Number	Qty.	Description	Rev.
	8841319	1	ISOLATION COUPLER ASSY, (includes all items)	AA
1	NSS	1	FLYWHEEL PLATE, (not sold separately, use 8841319 for replacement)	
2	7029264	1	COUPLING HUB	
3	Use Kit K1	8	NEOPRENE INSERT	
4	Use Kit K1	8	THREADED BUSHING	
5	Use Kit K1	8	HEX HD BOLT, 7/16-20X1-1/4	
6	Use Kit K1	1	BUSHING	
7	NSS	1	BALL BEARING, (not sold separately, use 8841319 for replacement)	
8	Use Kit K1	5	HEX HD BOLT, 7/16-20X1-1/2	
9	7029265	1	COVER PLATE	
K1	70020228	1	ISOLATION COUPLER SERVICE KIT, (includes items 3, 4, 5, 6, & 8)	

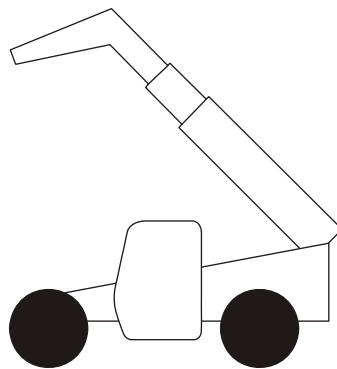


ENGINE & ATTACHING PARTS

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SECTION 5

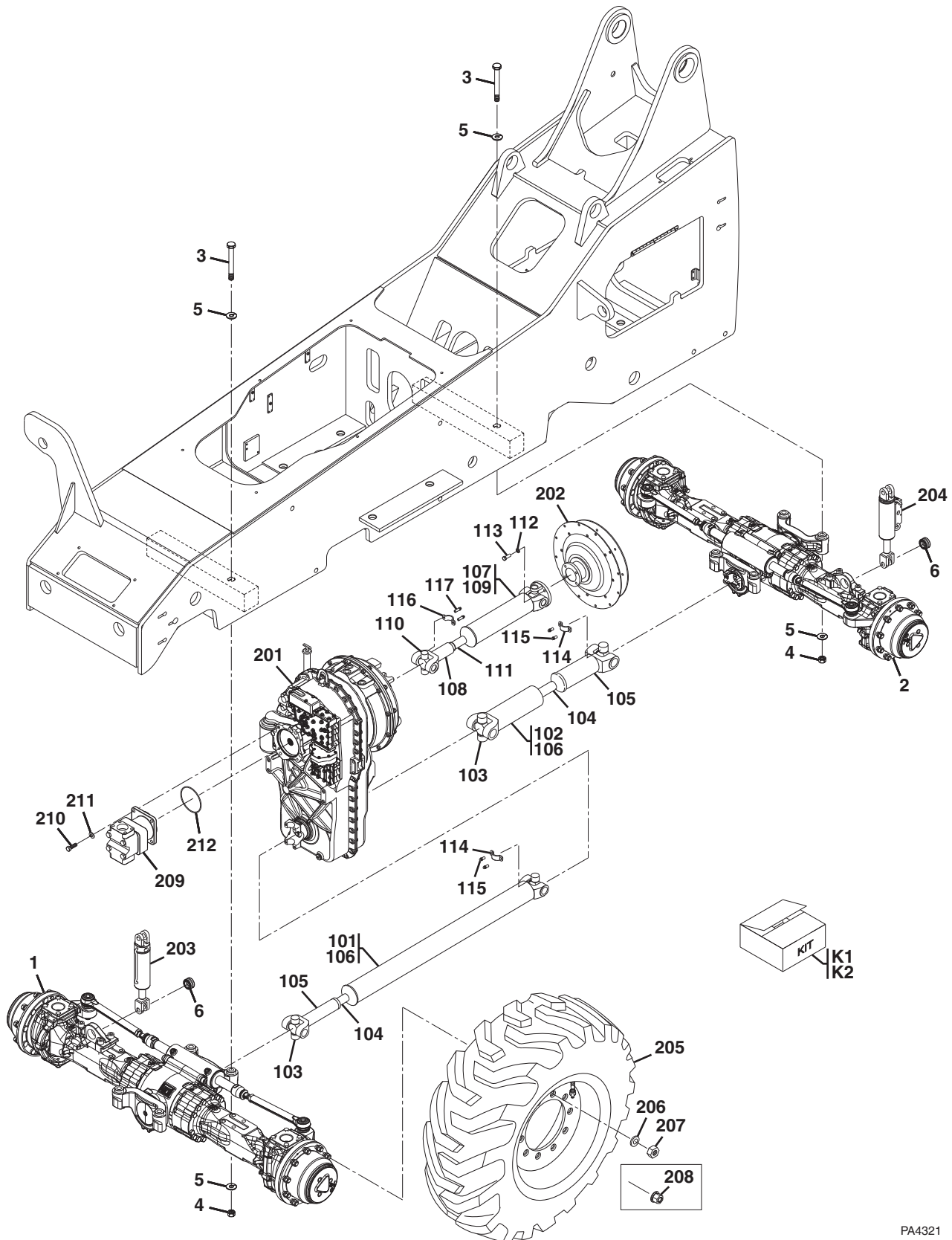
DRIVE TRAIN





DRIVE TRAIN

Figure 5-1 Drive Train Components



PA4321

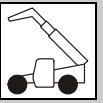


Figure 5-1 Drive Train Components

Item	Part Number	Qty.	Description	Rev.
	1001106728	Ref	AXLE INSTALLATION, (6036) , (not available to order, see items 1 thru 6 for service)	B
	1001104795	Ref	AXLE INSTALLATION, (6042) , (not available to order, see items 1 thru 6 for service)	B
1		Ref	FRONT AXLE, (see Figure 5-2 for details)	
2		Ref	REAR AXLE, (see Figure 5-10 for details)	
3	8310479	8	HEX HD CAPSCREW, 1-8X11, GR8	
4	8310481	8	HEX LOCKNUT, 1-8, (torque to 500-560 lb-ft/678-759 Nm)	
5	8310061	16	HARDENED WASHER, 1 OD	
6	8050001	1	BEARING, (6036)	
	8050001	2	BEARING, (6042)	
	7302341	Ref	DRIVE SHAFT INSTALLATION, (not available to order, see items 101 thru 117 for service)	C
101	7150579	1	FRONT AXLE DRIVE SHAFT, (includes items 103 thru 106)	C
102	7150580	1	REAR AXLE DRIVE SHAFT, (includes items 103 thru 106)	C
103	8036433	4	CROSS & BEARING KIT	
104	8035779	2	DUST CAP KIT	
105	NSS	2	SLIP JOINT	
106	NSS	2	YOKE SHAFT	
107	7302028	1	DRIVE SHAFT - ENGINE TO TRANSMISSION, (includes items 108 thru 111)	D
108	NSS	1	SLIP JOINT	
109	NSS	1	YOKE SHAFT	
110	7029271	2	CROSS & BEARING KIT	
111	8033651	1	DUST CAP KIT	
112	8307006	4	LOCKWASHER, 7/16	
113	8310425	4	HEX HD CAPSCREW, 7/16-20X1-1/4, GR8	
114	Use Kit K1	8	STRAP, (use kit 8880218 for replacement)	
115	Use Kit K1	16	SCREW, (torque to 32-42 lb-ft/43-57 Nm), (must replace when removed, do not re-torque), (use kit 8880218 for replacement)	
116	Use Kit K2	2	STRAP, (use kit 8880219 for replacement)	
117	Use Kit K2	4	SCREW, (torque to 35 lb-ft/47 Nm), (must replace when removed, do not re-torque), (use kit 8880219 for replacement)	
201		Ref	ZF TRANSMISSION, (see Figure 5-17 for details)	
202		Ref	ISOLATION COUPLER, (see Figure 4-7 for details)	
203		Ref	FRAME LEVEL CYLINDER & MOUNTING HARDWARE, (see Figure 9-5 for details)	
204		Ref	STABIL-TRAK CYLINDER & MOUNTING HARDWARE, (see Figure 9-6 for details)	
205		Ref	WHEEL ASSY, (see Figure 5-33 for details)	
206	8786573	40	LOCKWASHER, M22, (10 per tire), (not required with Firestone 370/75-28)	
207	8786572	40	WHEEL NUT, (10 per tire), (torque to 425-450 lb-ft/576-610 Nm), (not required with Firestone 370/75-28)	
208	91403193	40	LUG NUT, M22X1-1/2, FREE SPINNING, (10 per tire), (torque to 430-470 lb-ft/583-637 Nm), (if equipped with Firestone 370/75-28)	
209		Ref	GEAR PUMP, (see Figure 9-11 for details)	
210	8303519	4	HEX HD CAPSCREW, M12X1-3/4X35mm, PC8.8, (torque to 58-70 lb-ft/79-95 Nm)	
211	8310356	4	HARDENED WASHER, 12mm	



DRIVE TRAIN

Figure 5-1 Drive Train Components

Item	Part Number	Qty.	Description	Rev.
212	8630019	1	O-RING	
K1	8880218	4	STRAP KIT, (includes qty. 2 of item 114 & qty. 4 of item 115)	
K2	8880219	1	STRAP KIT, (includes qty. 2 of item 116 & qty. 4 of item 117)	

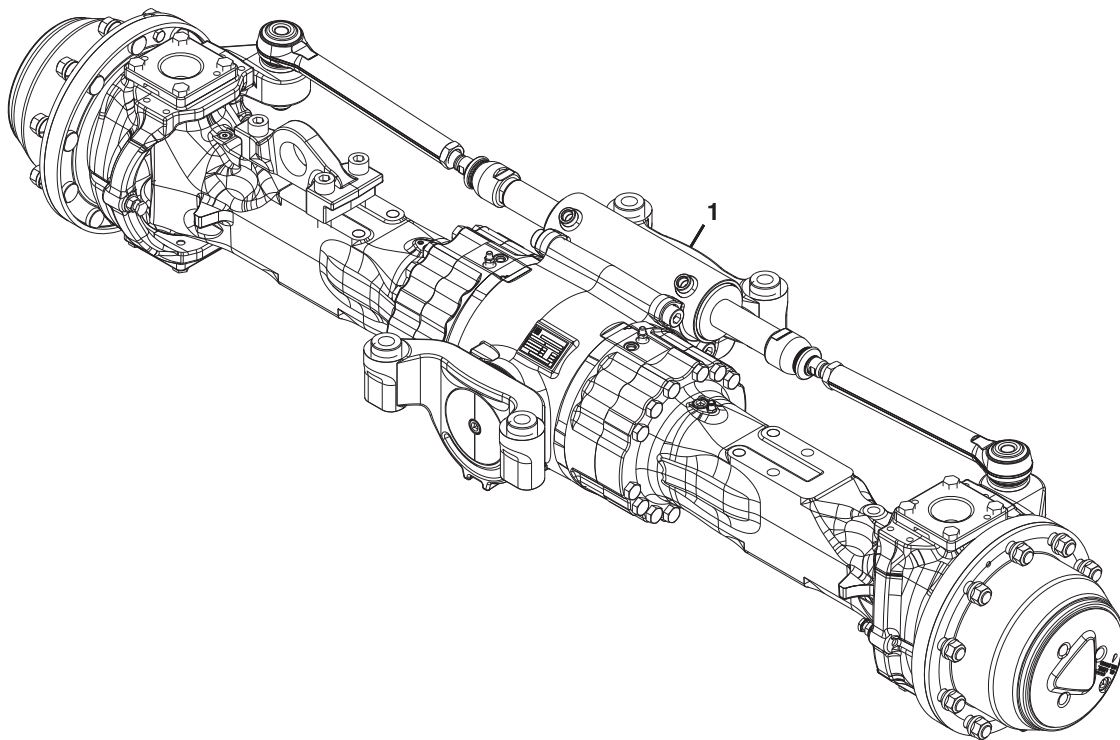
Figure 5-1 Drive Train Components

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-2 Front Axle



PA3921

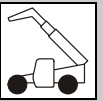


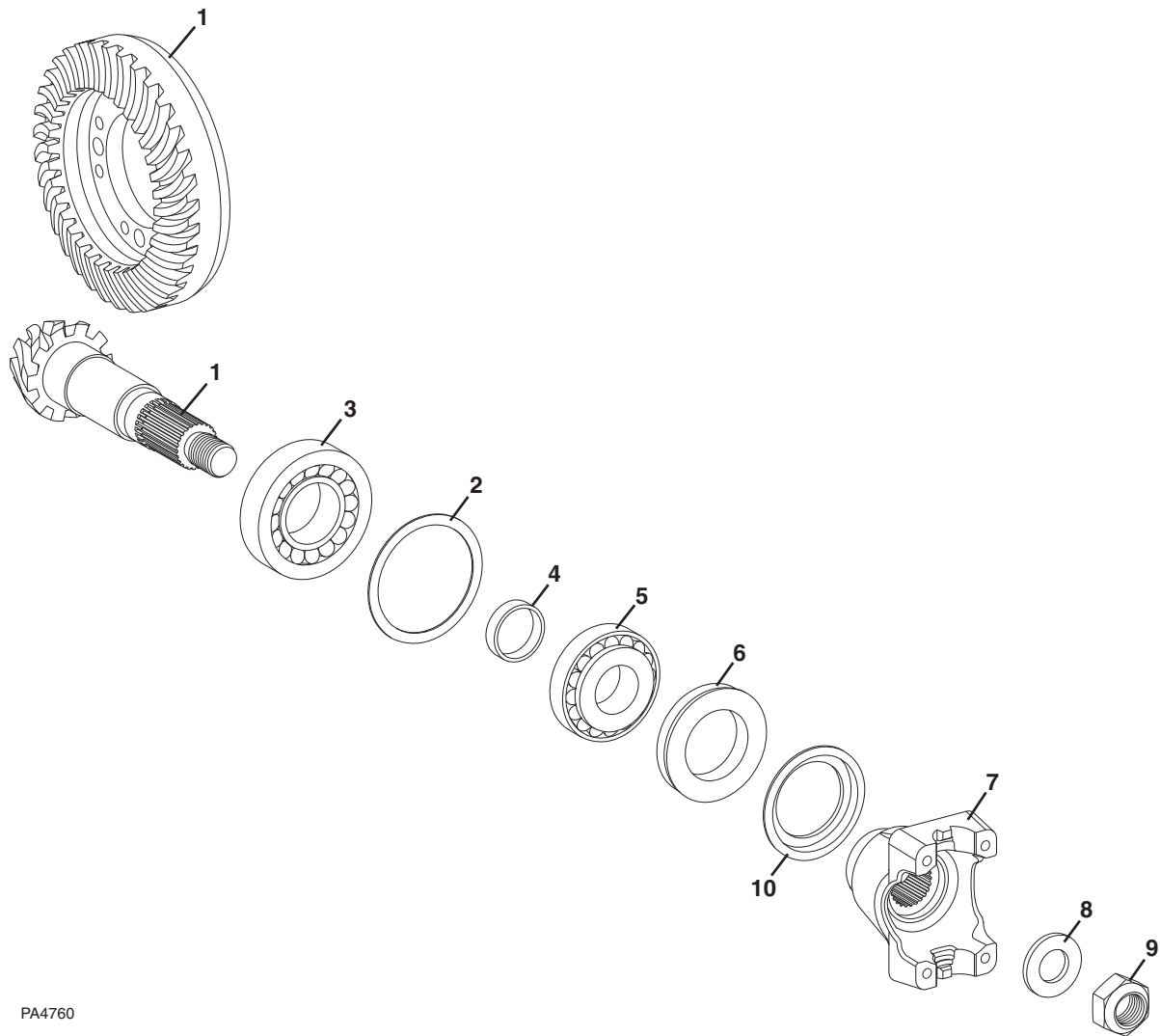
Figure 5-2 Front Axle

Item	Part Number	Qty.	Description	Rev.
1	1001103625	1	FRONT AXLE	D
		Ref	INPUT, (see Figure 5-3 for details)	
		Ref	LIMITED SLIP DIFFERENTIAL, (see Figure 5-4 for details)	
		Ref	AXLE CASING, (see Figure 5-5 for details)	
		Ref	M-DISK BRAKE, (see Figure 5-6 for details)	
		Ref	BRAKE, (see Figure 5-7 for details)	
		Ref	JOINT HOUSING, (see Figure 5-8 for details)	
		Ref	PLANETARY DRIVE, (see Figure 5-9 for details)	



DRIVE TRAIN

Figure 5-3 Front Axle - Input



PA4760

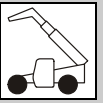


Figure 5-3 Front Axle - Input

Item	Part Number	Qty.	Description	Rev.
1	70022774	1	BEVEL GEAR	
	70022775	1	PINION	
2	80304169	1	SHIM, S=1.85	
	80304147	1	SHIM, S=1.9	
	80304160	1	SHIM, S=0.1	
	80304159	1	SHIM, S=0.2	
	80304158	1	SHIM, S=0.3	
	80304157	1	SHIM, S=0.5	
	80304156	1	SHIM, S=0.6	
	80304162	1	SHIM, S=0.65	
	80304155	1	SHIM, S=0.7	
	80304161	1	SHIM, S=0.75	
	80304154	1	SHIM, S=0.8	
	80304153	1	SHIM, S=0.9	
	80304152	1	SHIM, S=1.0	
	80304146	1	SHIM, S=1.2	
	80304163	1	SHIM, S=1.25	
	80304151	1	SHIM, S=1.3	
	80304164	1	SHIM, S=1.35	
	80304150	1	SHIM, S=1.4	
	80304165	1	SHIM, S=1.45	
	80304145	1	SHIM, S=1.5	
	80304166	1	SHIM, S=1.55	
	80304149	1	SHIM, S=1.6	
	80304167	1	SHIM, S=1.65	
	80304148	1	SHIM, S=1.7	
	80304168	1	SHIM, S=1.75	
	80304144	1	SHIM, S=1.8	
3	80304047	1	ROLLER BEARING	
4	80304088	1	RING, S=16.0	
	80304089	1	RING, S=16.1	
	80304090	1	RING, S=16.2	
	80304091	1	RING, S=16.3	
	80304092	1	RING, S=16.4	
	80304093	1	RING, S=16.5	
	80304110	1	RING, S=16.56	
	80304094	1	RING, S=16.6	
	80304111	1	RING, S=16.62	
	80304112	1	RING, S=16.64	
	80304124	1	RING, S=16.66	
	80304113	1	RING, S=16.68	
	80304095	1	RING, S=16.7	
	70022216	1	RING, S=16.72	
	80304115	1	RING, S=16.74	
	80304117	1	RING, S=16.76	
	80304118	1	RING, S=16.78	
	80304096	1	RING, S=16.8	
	80304119	1	RING, S=16.82	
	80304120	1	RING, S=16.84	



DRIVE TRAIN

Figure 5-3 Front Axle - Input (Continued)

Item	Part Number	Qty.	Description	Rev.
	80304104	1	RING, S=16.86	
	80304121	1	RING, S=16.88	
	80304122	1	RING, S=16.9	
	80304097	1	RING, S=16.92	
	80304123	1	RING, S=16.94	
	80304125	1	RING, S=16.96	
	80304107	1	RING, S=16.98	
	80304126	1	RING, S=17.0	
	80304127	1	RING, S=17.02	
	80304108	1	RING, S=17.04	
	80304128	1	RING, S=17.06	
	80304129	1	RING, S=17.08	
	80304099	1	RING, S=17.10	
	80304130	1	RING, S=17.12	
	80304131	1	RING, S=17.14	
	80304132	1	RING, S=17.16	
	80304133	1	RING, S=17.18	
	80304100	1	RING, S=17.2	
	80304134	1	RING, S=17.22	
	80304135	1	RING, S=17.24	
	80304136	1	RING, S=17.26	
	80304137	1	RING, S=17.28	
	80304101	1	RING, S=17.3	
	80304102	1	RING, S=17.4	
5	1319353	1	ROLLER BEARING	
6	70022220	1	SHAFT SEAL	
7	70022245	1	END YOKE	
8	80304082	1	WASHER	
9	70022213	1	HEX NUT	
10	70022776	1	SCREEN SHEET	

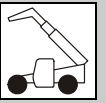


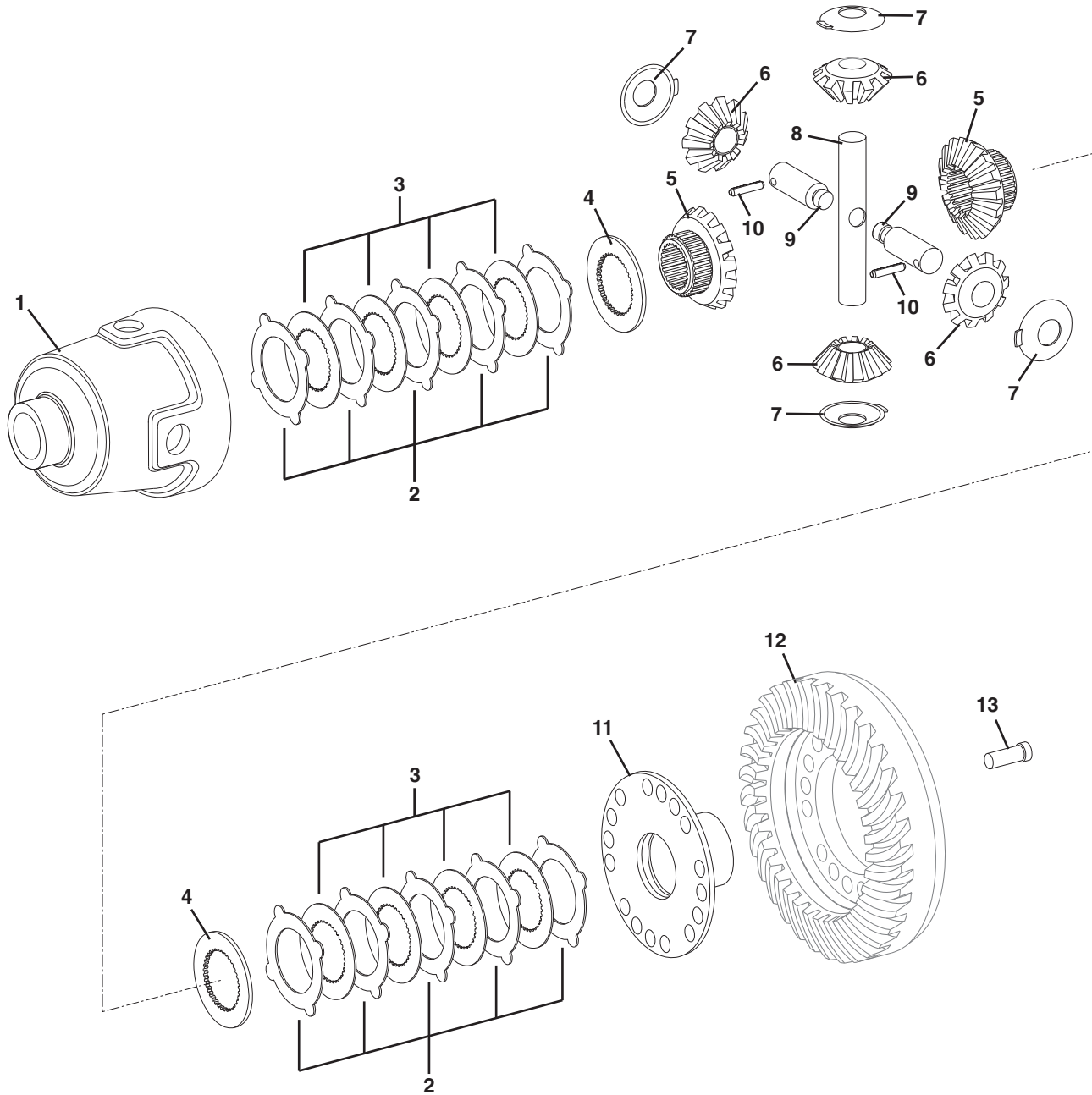
Figure 5-3 Front Axle - Input (Continued)

Item	Part Number	Qty.	Description	Rev.



DRIVE TRAIN

Figure 5-4 Front Axle - Limited Slip Differential



PA3301

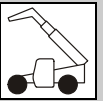


Figure 5-4 Front Axle - Limited Slip Differential

Item	Part Number	Qty.	Description	Rev.
1	70022226	1	DIFFERENTIAL CASE	
2	70022263	AR	O.CLUTCH DISC, A=1.2	
	70022264	AR	O.CLUTCH DISC, A=1.3	
3	70022260	8	I.CLUTCH DISC	
4	70022261	2	PRESSURE DISC	
5	70022225	2	AXLE BEVEL GEAR	
6	70022185	4	DIFFERENTIAL BEVEL GEAR	
7	70022262	4	THRUST WASHER	
8	70022227	1	DIFFERENTIAL AXLE	
9	70022228	2	DIFFERENTIAL AXLE	
10	70022200	2	SLOTTED PIN	
11	70022229	1	COVER	
12		Ref	BEVEL GEAR, (see Figure 5-3 for details)	
13	70022211	16	CAP SCREW, M12X1.5X35	



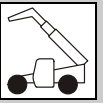
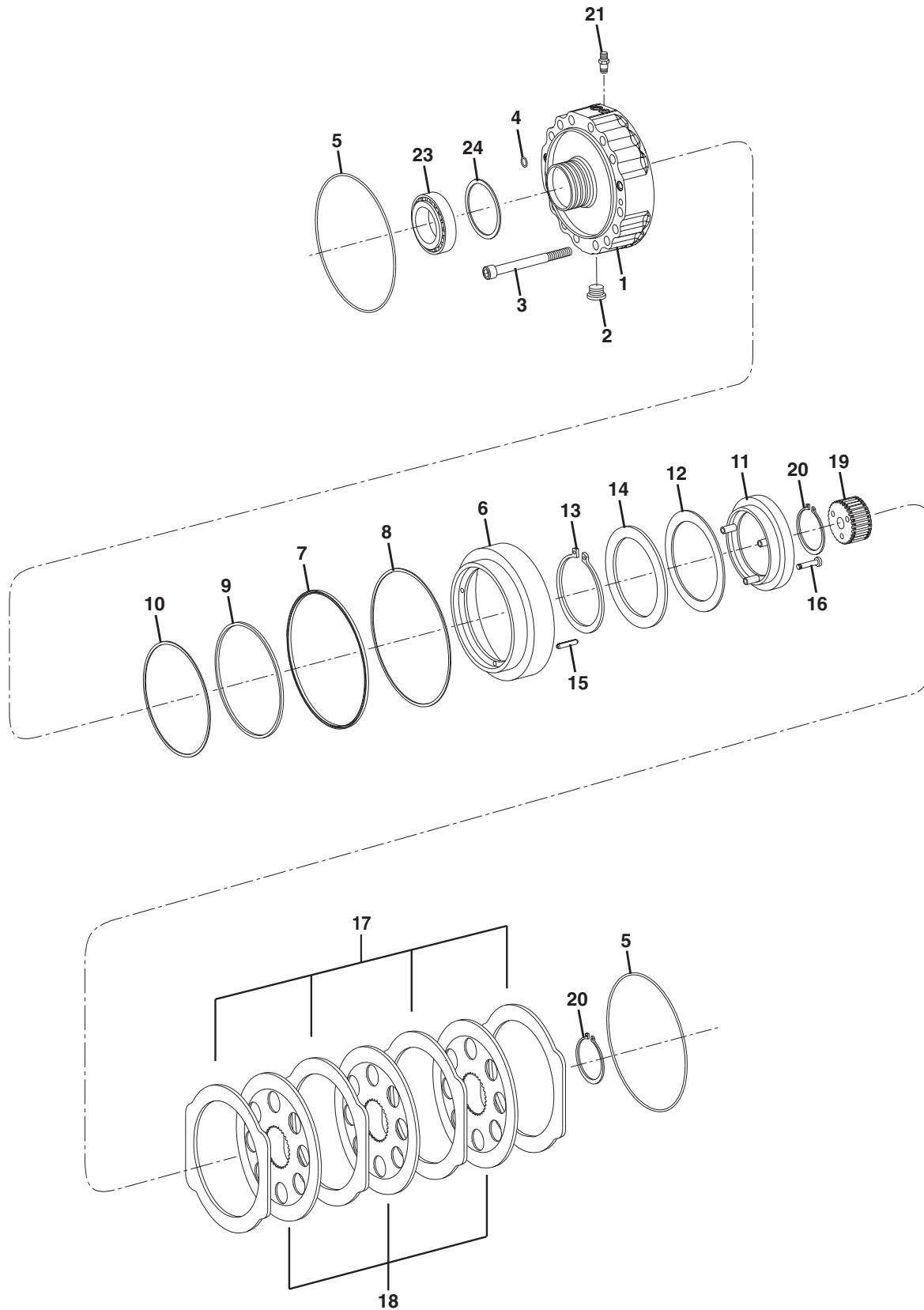


Figure 5-5 Front Axle - Axle Casing

Item	Part Number	Qty.	Description	Rev.
1	70022255	2	AXLE CASING	
2	70022259	1	AXLE DRIVE HOUSING	
3	70022206	28	HEX HD CAPSCREW, M18X180	
4	1319578	4	SCREW PLUG	
5	70022241	2	BUSHING	
6	70022204	2	O-RING	
7	70022217	2	RING	
8	10731790	2	BEARING	
9	70022201	2	SET SCREW, M10X1X16	
10	70022777	2	SCREW PLUG	
12	70022174	2	TIE ROD, (includes items 13 thru 16)	
13	70022175	1	BALL JOINT	
14	70022172	1	AXIAL JOINT	
15	8036758	1	LOCKNUT	
16	8036759	1	HEX NUT	
17	1319436	1	BREATHER	
18	8036418	1	SCREW PLUG	
19	70022246	1	BRACKET	
20	70022247	1	BRACKET	
21	1319423	2	GREASE FITTING	
22	70022182	2	FLANGE BUSHING	
23	70022205	2	O-RING	
24	70022219	2	V-RING	
25	1319441	4	BUSHING	
26	70022254	1	BRACKET	
27	1001103619	3	HEX HD CAPSCREW, M22X1.5X80	
101	70022173	1	STEERING CYLINDER, (includes items 102 thru 106)	
102	70022177	1	PISTON ROD	
103	70022184	2	BREAK HEAD	
104	70022181	2	RETAINING RING	
105	70022180	2	RETAINING RING	
106	70022178	1	SEAL KIT	
107	70022789	4	CAPSCREW, M22X1.5X55	



Figure 5-6 Front Axle - M-Disk Brake



PA3321

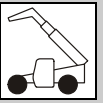


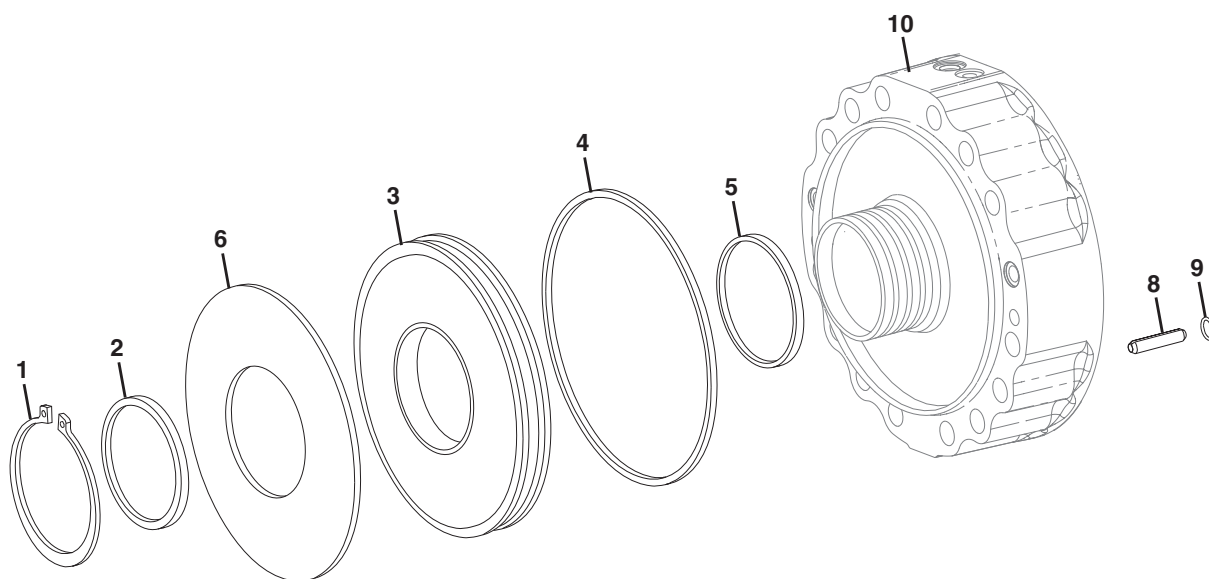
Figure 5-6 Front Axle - M-Disk Brake

Item	Part Number	Qty.	Description	Rev.
1	70022778	2	BRAKE HOUSING	
2	1319578	2	SCREW PLUG	
3	70022209	6	CAP SCREW, M12X105	
4	70022779	10	O-RING	
5	80304462	4	O-RING	
6	70022250	2	PISTON	
7	70022190	2	PISTON PACKING	
8	70022193	2	BACKUP RING	
9	70022189	2	PISTON PACKING	
10	70022194	2	BACKUP RING	
11	70022236	2	RING	
12	70022183	2	CUP SPRING	
13	70022198	2	RETAINING RING	
14	70022235	2	WASHER	
15	70022186	2	SLOT PIN	
16	1319214	6	CAP SCREW, M8X40	
17	70022196	8	O.CLUTCH DISC	
18	70022176	6	I.CLUTCH DISC	
19	70022253	2	DISC CARRIER	
20	10731949	4	RETAINING RING	
21	70022171	2	BREATHER	
22	70022780	2	SCREW PLUG, (not shown)	
23	8036447	2	BEARING	
24	1319537	2	SHIM, A=0.95	
	1319545	2	SHIM, A=1.05	
	1319539	2	SHIM, A=1.15	
	1319540	2	SHIM, A=1.25	
	1319542	2	SHIM, A=1.35	

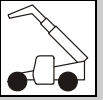


DRIVE TRAIN

Figure 5-7 Front Axle - Brake



PA3331

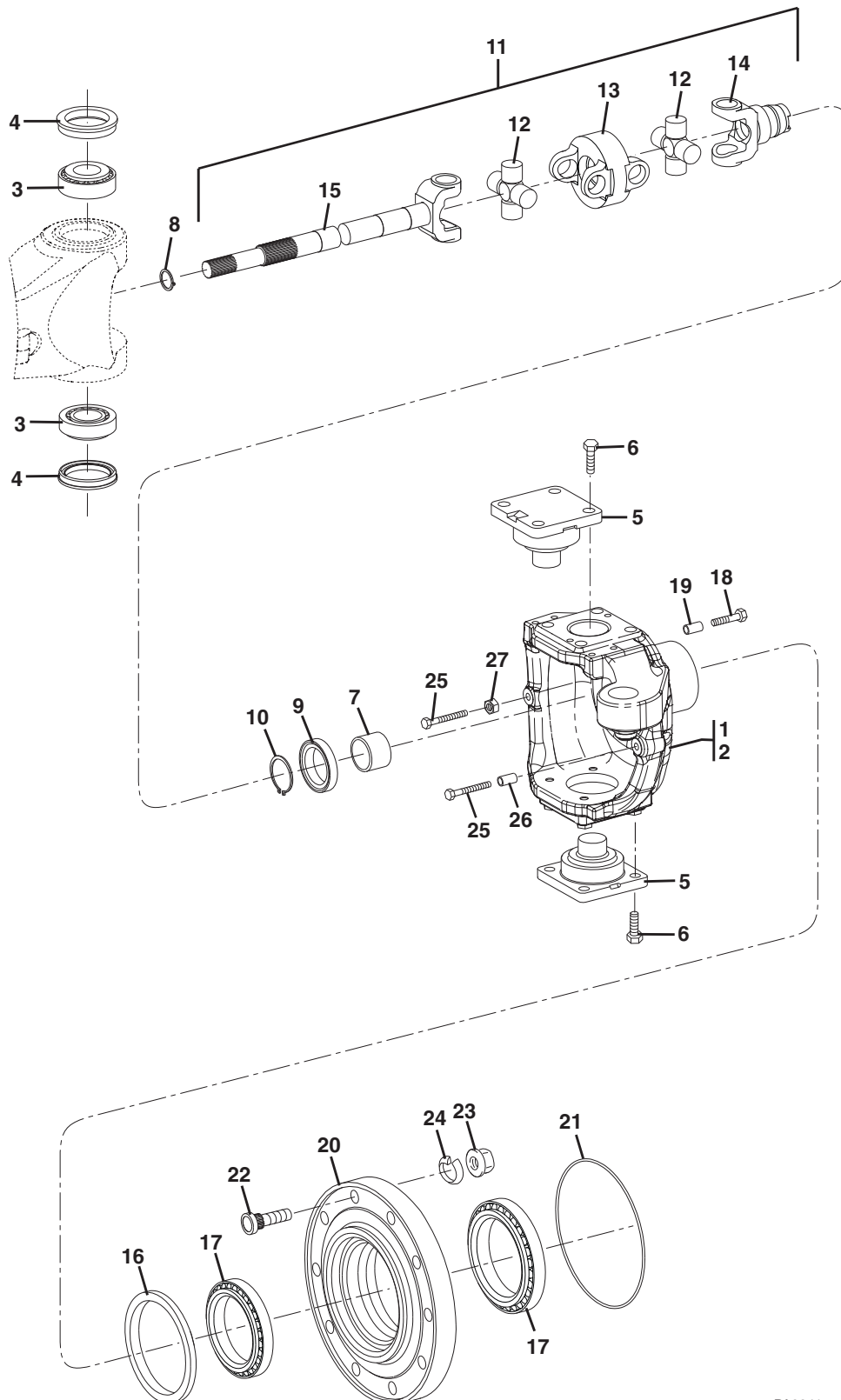
**Figure 5-7 Front Axle - Brake**

Item	Part Number	Qty.	Description	Rev.
1	70022199	2	SNAP RING	
2	70022252	2	WASHER	
3	70022251	2	PISTON	
4	70022191	2	PISTON PACKING	
5	70022192	2	ROD SEAL	
6	70022195	2	CUP SPRING	
7	70022780	2	SCREW PLUG, (not shown)	
8	70022248	14	PRESSURE PIN	
9	70022202	14	O-RING	
10		Ref	BRAKE HOUSING, (see Figure 5-6 for details)	



DRIVE TRAIN

Figure 5-8 Front Axle - Joint Housing



PA3341

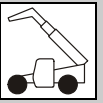


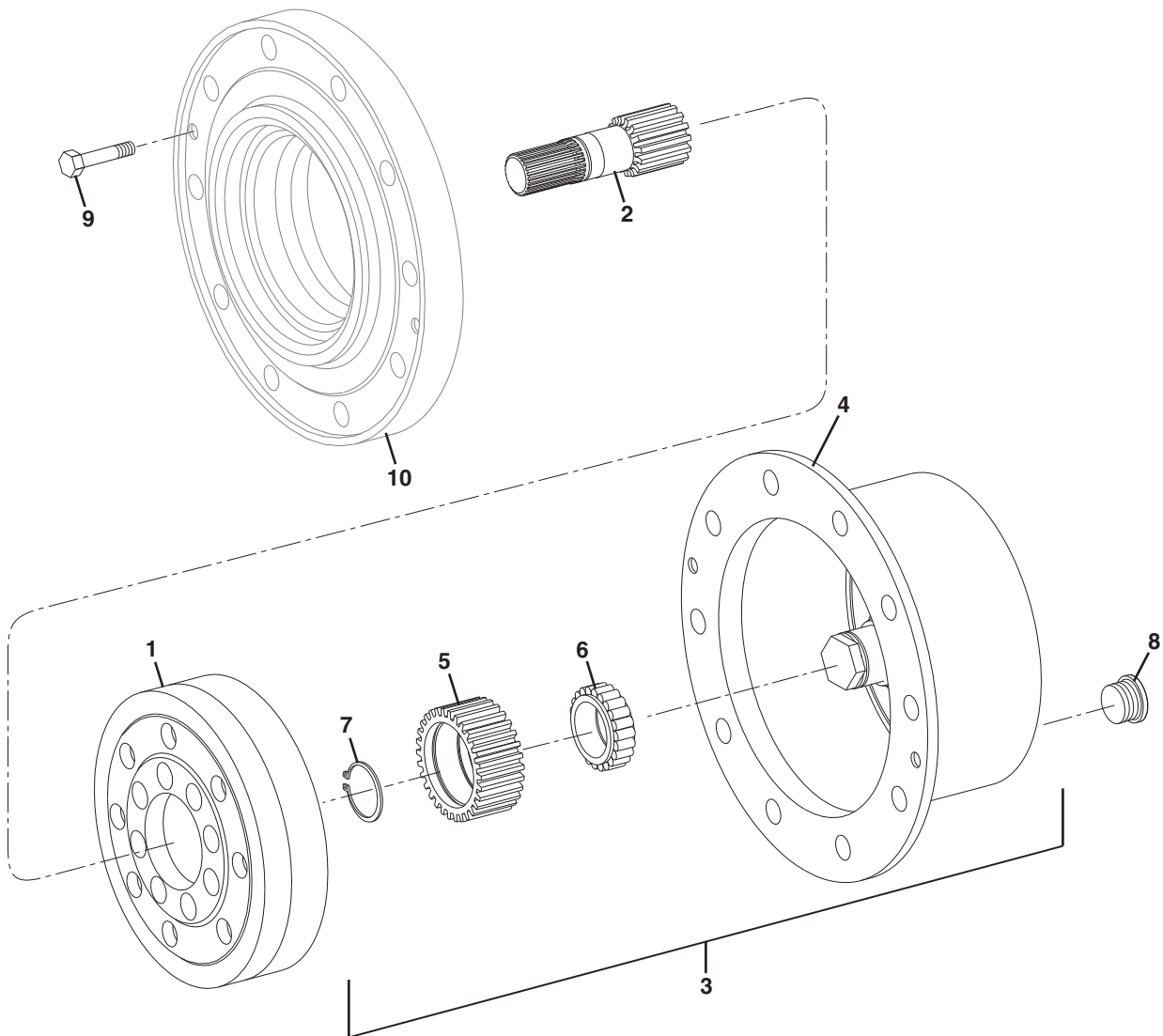
Figure 5-8 Front Axle - Joint Housing

Item	Part Number	Qty.	Description	Rev.
1	70022237	1	JOINT HOUSING, (right side)	
2	70022238	1	JOINT HOUSING, (left side)	
3	70022223	4	ROLLER BEARING	
4	1319447	4	SHAFT SEAL	
5	70022240	4	BEARING PIN	
6	1319464	16	HEX SCREW, M16X40	
7	70022179	2	BUSHING	
8	10731789	2	RETAINING RING	
9	70022218	2	SHAFT SEAL	
10	1321226	2	RETAINING RING	
11	70022781	2	UNIVERSAL COUPLING DRIVE SHAFT ASSY, (includes items 12 thru 15)	
12	70021554	2	JOINT CROSS	
13	70022782	1	CENTRAL PIECE	
14	70022187	1	FORK SHAFT	
15	70022188	1	FORK SHAFT	
16	80304173	2	SHAFT SEAL	
17	1319472	4	ROLLER BEARING	
18	70022783	16	HEX SCREW, M14X70	
19	70022234	16	CENTERING BUSHING	
20	70022249	2	HUB	
21	70022203	2	O-RING	
22	70022230	20	WHEEL BOLT	
23		Ref	WHEEL NUT, (see Figure 5-1 for details)	
24		Ref	SPRING WASHER, (see Figure 5-1 for details)	
25	8036330	4	STOP SCREW, M14X1.5	
26	70022257	2	SPACER TUBE	
27	1319477	2	HEX NUT, M14X1.5	



DRIVE TRAIN

Figure 5-9 Front Axle - Planetary Drive



PA3351

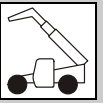


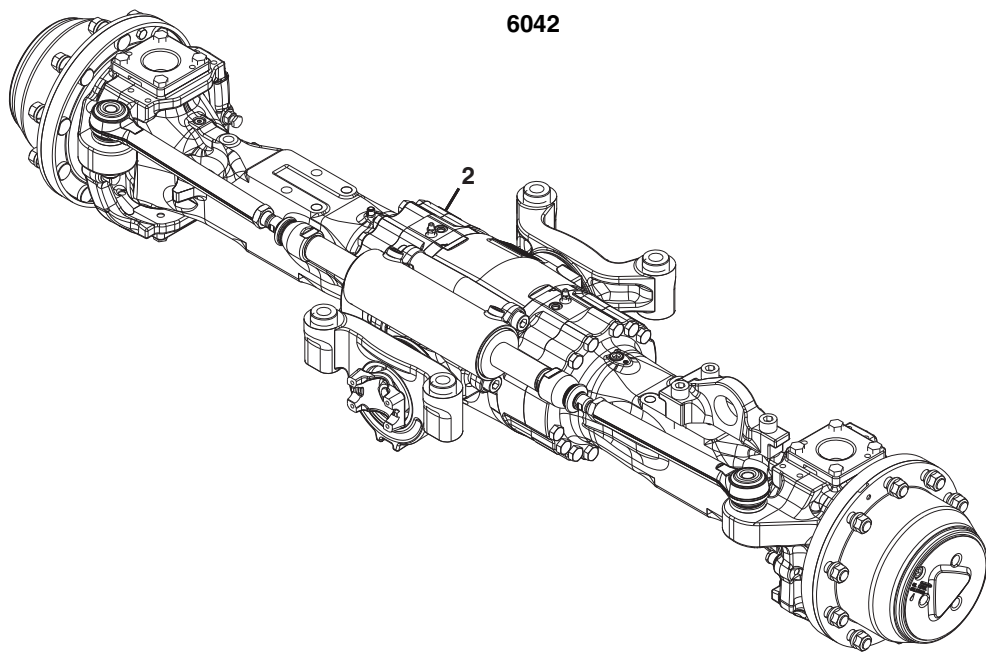
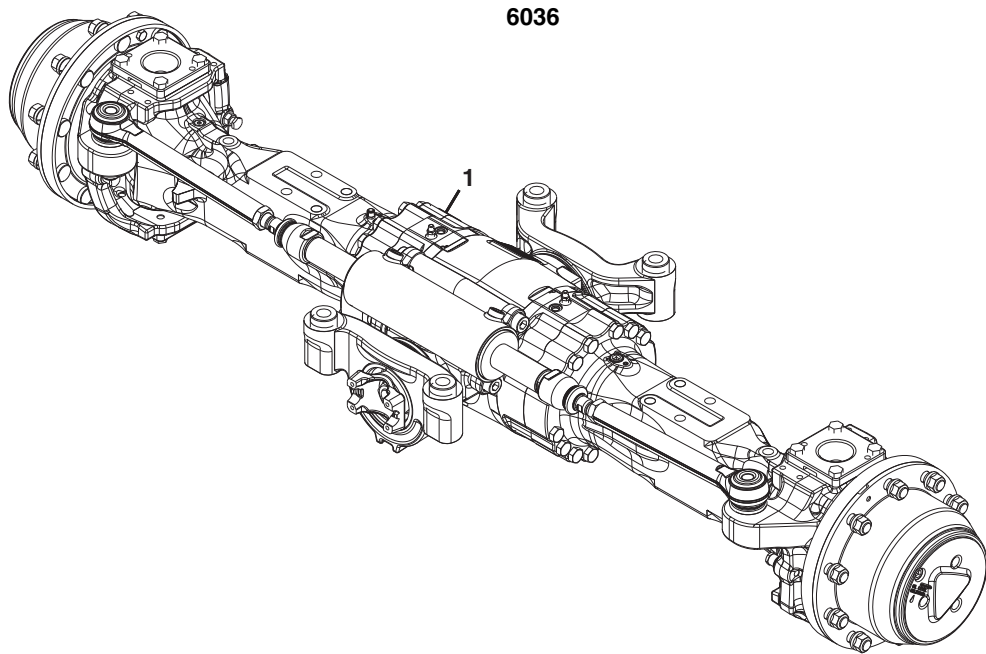
Figure 5-9 Front Axle - Planetary Drive

Item	Part Number	Qty.	Description	Rev.
1	70022242	1	RING GEAR	
2	70022784	2	SUN GEAR SHAFT	
3	70022233	2	PLANETARY CARRIER ASSY, (includes items 4 thru 7)	
4	70022256	1	PLANETARY CARRIER	
5	70022243	3	PLANETARY GEAR	
6	70022785	3	CYL ROLLER BEARING	
7	70022197	3	RETAINING RING	
8	1319578	2	SCREW PLUG	
9	70022207	4	HEX SCREW, M12X30	
10		Ref	HUB, (see Figure 5-8 for details)	



DRIVE TRAIN

Figure 5-10 Rear Axle



PA3931

PA3930

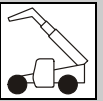


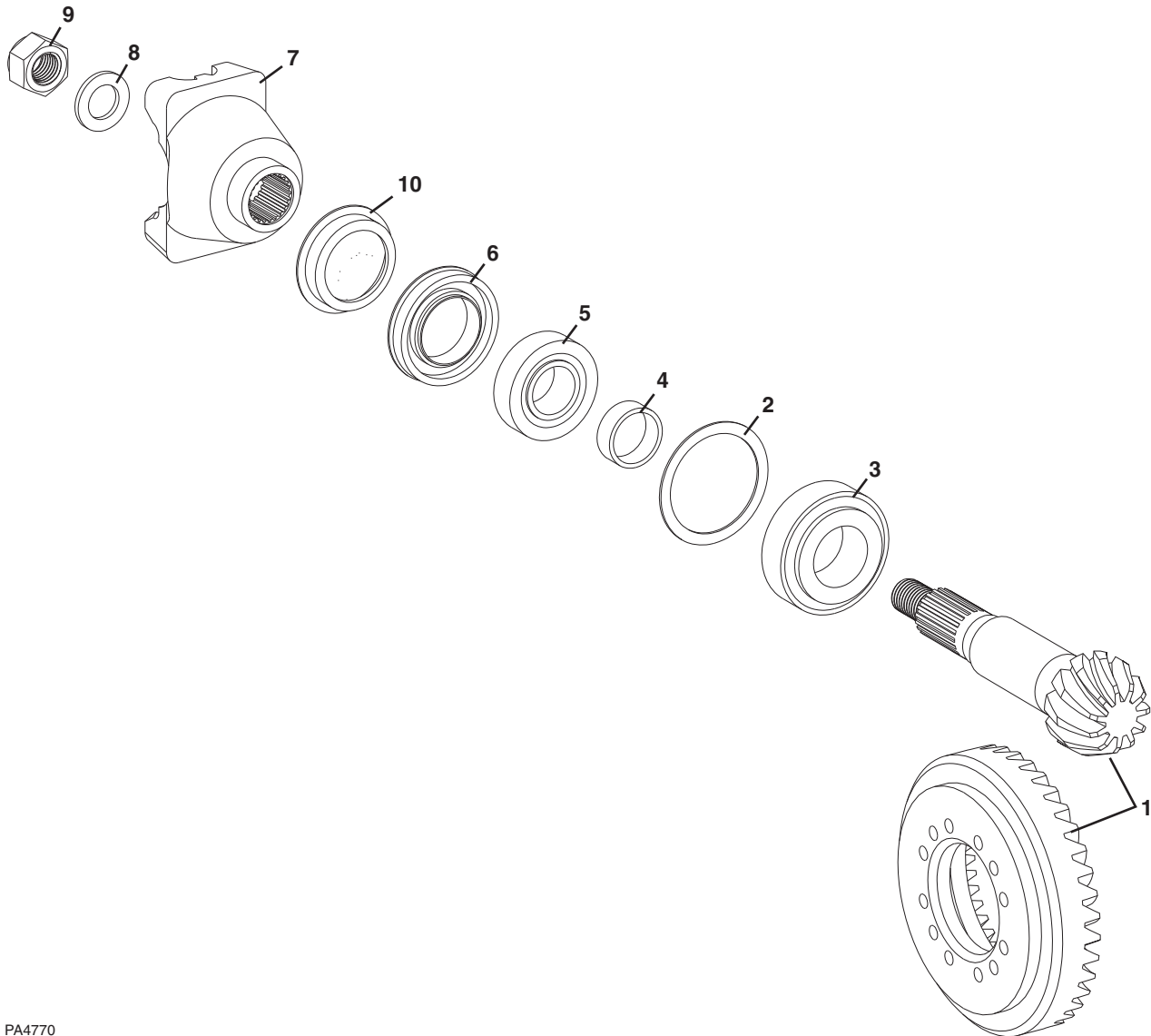
Figure 5-10 Rear Axle

Item	Part Number	Qty.	Description	Rev.
1	1001106727	1	REAR AXLE, (6036)	D
2	1001103630	1	REAR AXLE, (6042)	D
		Ref	INPUT, (see Figure 5-11 for details)	
		Ref	LIMITED SLIP DIFFERENTIAL, (see Figure 5-12 for details)	
		Ref	AXLE CASING, (see Figure 5-13 for details)	
		Ref	M-DISK BRAKE, (see Figure 5-14 for details)	
		Ref	BRAKE, (see Figure 5-15 for details)	
		Ref	JOINT HOUSING, (see Figure 5-16 for details)	
		Ref	PLANETARY DRIVE, (see Figure 5-17 for details)	



DRIVE TRAIN

Figure 5-11 Rear Axle - Input



PA4770

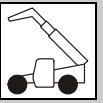


Figure 5-11 Rear Axle - Input

Item	Part Number	Qty.	Description	Rev.
1	70022786	1	BEVEL GEAR, (6036)	
	70022787	1	PINION, (6036)	
	70022280	1	BEVEL GEAR SET, (6042)	
2	80304160	1	SHIM, S=0.1	
	80304159	1	SHIM, S=0.2	
	80304158	1	SHIM, S=0.3	
	80304157	1	SHIM, S=0.5	
	80304156	1	SHIM, S=0.6	
	80304162	1	SHIM, S=0.65	
	80304155	1	SHIM, S=0.7	
	80304161	1	SHIM, S=0.75	
	80304154	1	SHIM, S=0.8	
	80304153	1	SHIM, S=0.9	
	80304152	1	SHIM, S=1.0	
	80304146	1	SHIM, S=1.2	
	80304163	1	SHIM, S=1.25	
	80304151	1	SHIM, S=1.3	
	80304164	1	SHIM, S=1.35	
	80304150	1	SHIM, S=1.4	
	80304165	1	SHIM, S=1.45	
	80304145	1	SHIM, S=1.5	
	80304166	1	SHIM, S=1.55	
	80304149	1	SHIM, S=1.6	
	80304167	1	SHIM, S=1.65	
	80304148	1	SHIM, S=1.7	
	80304168	1	SHIM, S=1.75	
	80304144	1	SHIM, S=1.8	
	80304169	1	SHIM, S=1.85	
	80304147	1	SHIM, S=1.9	
	80304143	1	SHIM, S=2.0	
3	80304047	1	ROLLER BEARING, (6036)	
	70022231	1	ROLLER BEARING, (6042)	
4	80304088	1	RING, S=16.00	
	80304089	1	RING, S=16.10	
	80304090	1	RING, S=16.20	
	80304091	1	RING, S=16.30	
	80304092	1	RING, S=16.40	
	80304093	1	RING, S=16.50	
	80304094	1	RING, S=16.60	
	80304095	1	RING, S=16.70	
	80304096	1	RING, S=16.80	
	80304097	1	RING, S=16.92	
	80304099	1	RING, S=17.10	
	80304100	1	RING, S=17.20	
	80304101	1	RING, S=17.30	
	80304102	1	RING, S=17.40	
	80304104	1	RING, S=16.86	
	80304107	1	RING, S=16.98	
	80304108	1	RING, S=17.04	



DRIVE TRAIN

Figure 5-11 Rear Axle - Input (Continued)

Item	Part Number	Qty.	Description	Rev.
	80304110	1	RING, S=16.56	
	80304111	1	RING, S=16.62	
	80304112	1	RING, S=16.64	
	80304113	1	RING, S=16.68	
	80304114	1	RING, S=16.72	
	80304115	1	RING, S=16.74	
	80304117	1	RING, S=16.76	
	80304118	1	RING, S=16.78	
	80304119	1	RING, S=16.82	
	80304120	1	RING, S=16.84	
	80304121	1	RING, S=16.88	
	80304122	1	RING, S=16.90	
	80304123	1	RING, S=16.94	
	80304124	1	RING, S=16.66	
	80304125	1	RING, S=16.96	
	80304126	1	RING, S=17.00	
	80304127	1	RING, S=17.02	
	80304128	1	RING, S=17.06	
	80304129	1	RING, S=17.08	
	80304130	1	RING, S=17.12	
	80304131	1	RING, S=17.14	
	80304132	1	RING, S=17.16	
	80304133	1	RING, S=17.18	
	80304134	1	RING, S=17.22	
	80304135	1	RING, S=17.24	
	80304136	1	RING, S=17.26	
	80304137	1	RING, S=17.28	
5	1319353	1	ROLLER BEARING	
6	70022220	1	SEAL SHAFT	
7	70022245	1	END YOKE	
8	80304082	1	WASHER	
9	70022213	1	HEX NUT	
10	70022244	1	SCREEN SHEET	

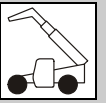


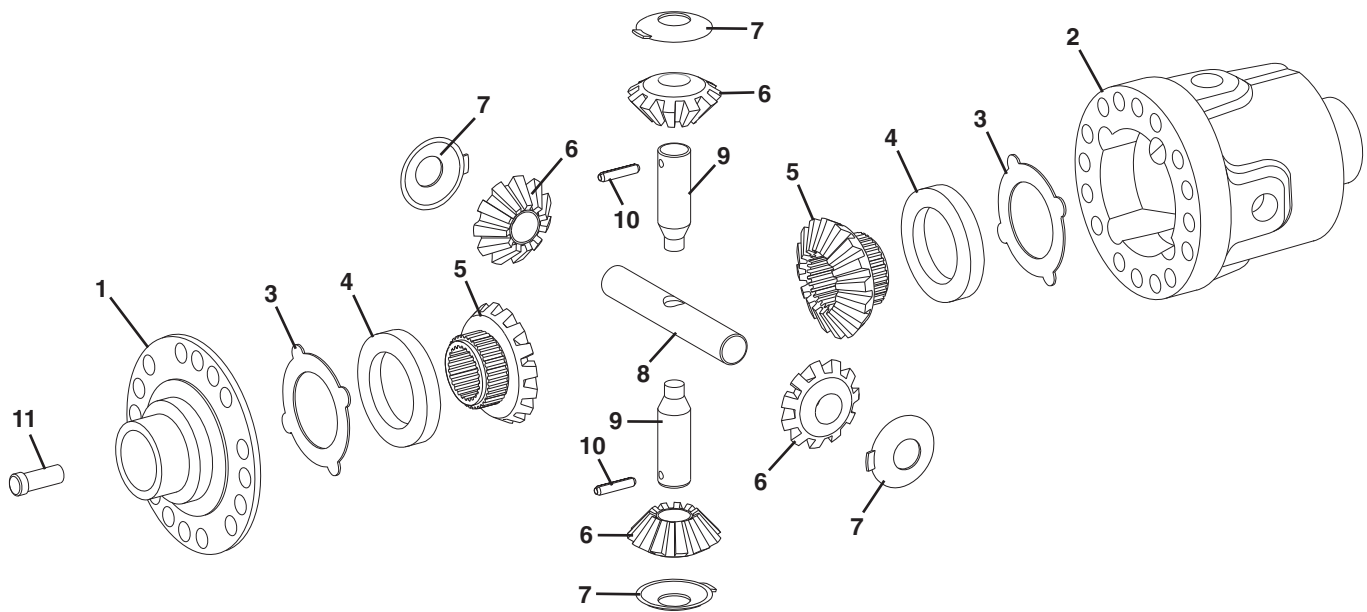
Figure 5-11 Rear Axle - Input (Continued)

Item	Part Number	Qty.	Description	Rev.

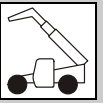


DRIVE TRAIN

Figure 5-12 Rear Axle - Differential



PA4700

**Figure 5-12 Rear Axle - Differential**

Item	Part Number	Qty.	Description	Rev.
1	70022229	1	COVER	
2	70023910	1	DIFFERENTIAL CASE	
3	70022284	2	THRUST WASHER	
4	70022285	2	DIFFERENTIAL RING, A=15.0	
5	70022225	2	AXLE BEVEL GEAR	
6	70022185	4	DIFFERENTIAL BEVEL GEAR	
7	70022262	4	THRUST WASHER	
8	70022227	1	DIFFERENTIAL AXLE	
9	70022228	2	DIFFERENTIAL AXLE	
10	70023904	2	SLOT PIN	
11	70022211	16	CAPSCREW	



Figure 5-13 Rear Axle - Axle Casing



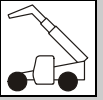


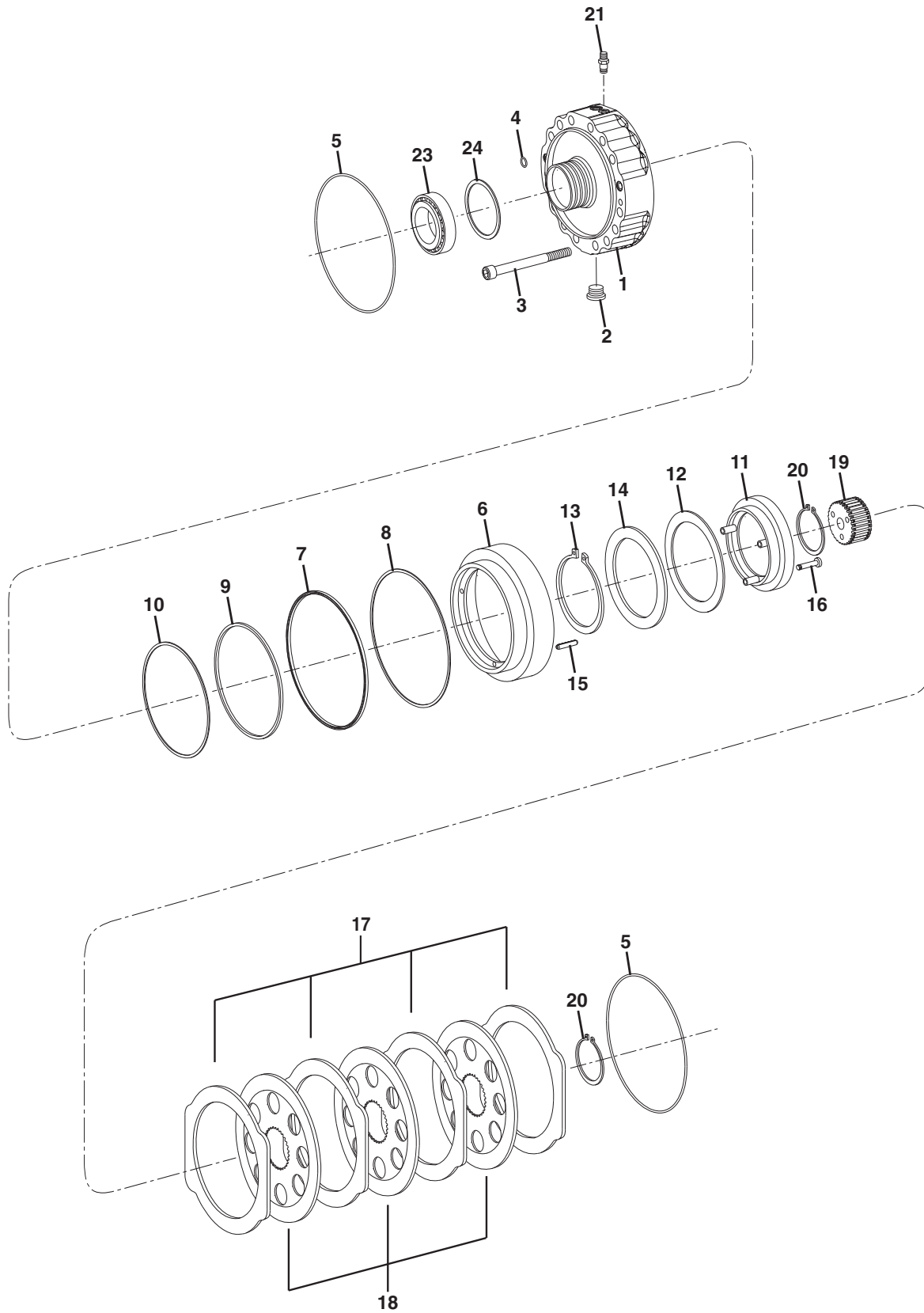
Figure 5-13 Rear Axle - Axle Casing

Item	Part Number	Qty.	Description	Rev.
1	70022255	2	AXLE CASING	
2	70022259	1	AXLE DRIVE HOUSING	
3	70022206	28	HEX HD CAPSCREW, M18X180	
4	1319578	4	SCREW PLUG	
5	70022241	2	BUSHING	
6	70022204	2	O-RING	
7	70022217	2	RING	
8	10731790	2	BEARING	
9	70022201	2	SET SCREW, M10X1X16	
10	70022777	2	SCREW PLUG, (6036)	
	1319666	2	SCREW PLUG, (6042)	
12	70022174	2	TIE ROD, (includes items 13 thru 16)	
13	70022175	1	BALL JOINT	
14	70022172	1	AXIAL JOINT	
15	8036758	1	LOCKNUT	
16	8036759	1	HEX NUT	
17	1319436	1	BREATHER	
18	8036418	1	SCREW PLUG	
19	70022246	1	BRACKET	
20	70022247	1	BRACKET	
21	1319423	2	GREASE FITTING	
22	70022182	2	FLANGE BUSHING	
23	70022205	2	O-RING	
24	70022219	2	V-RING	
25	1319441	4	BUSHING	
26	70022254	1	BRACKET, (6042)	
27	1001103619	3	HEX HD CAPSCREW, M22X1.5X80, (6042)	
101	70022173	1	STEERING CYLINDER, (includes items 102 thru 106)	
102	70022177	1	PISTON ROD	
103	70022184	2	BREAK HEAD	
104	70022181	2	RETAINING RING	
105	70022180	2	RETAINING RING	
106	70022178	1	SEAL KIT	
107	70022789	4	CAPSCREW, M22X1.5X55, (6036)	
	70022210	4	CAPSCREW, M22X1.5X55, (6042)	



DRIVE TRAIN

Figure 5-14 Rear Axle - M-Disk Brake



PA3321

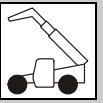


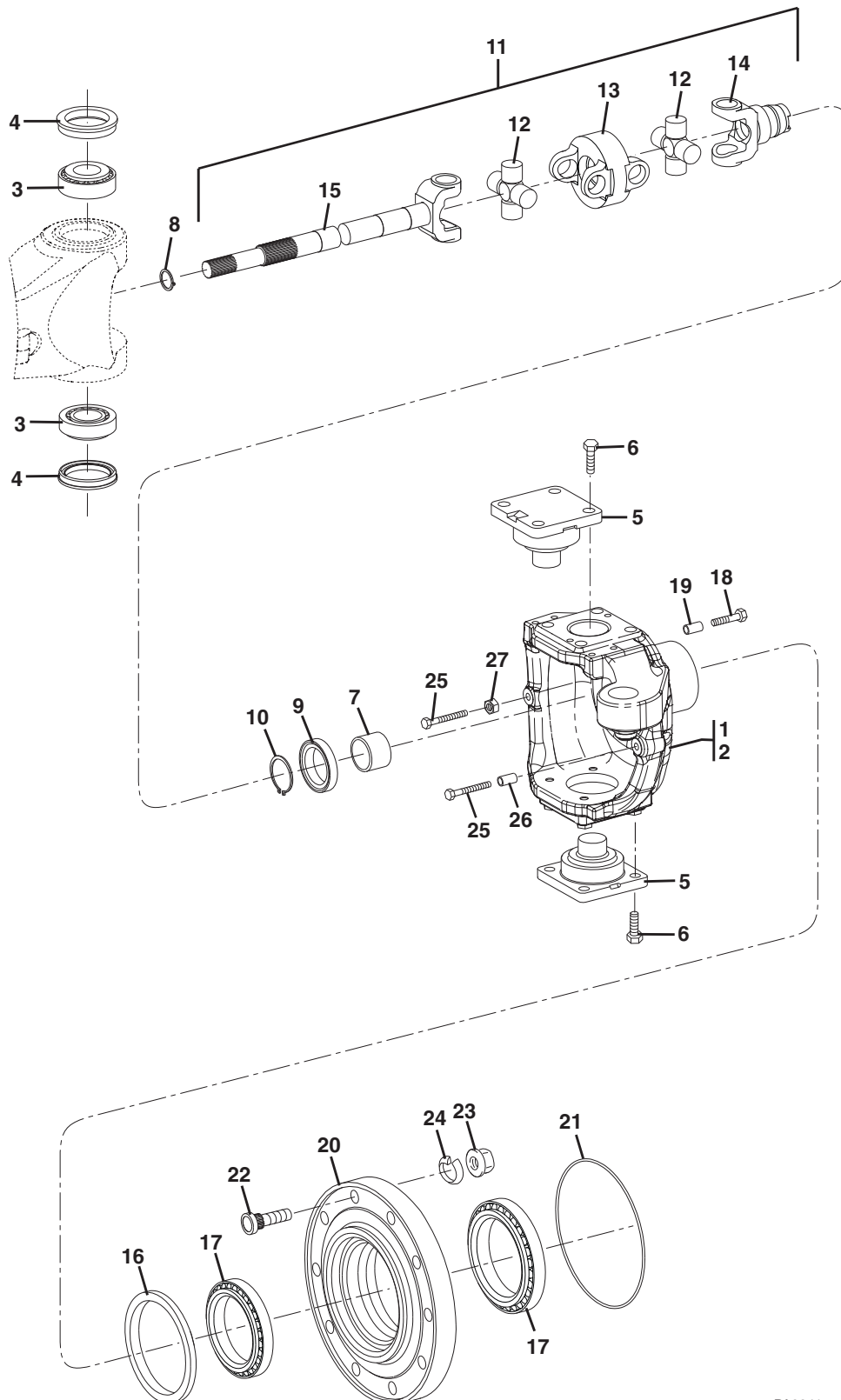
Figure 5-14 Rear Axle - M-Disk Brake

Item	Part Number	Qty.	Description	Rev.
1	70022788	2	BRAKE HOUSING, (6036)	
	70022282	2	BRAKE HOUSING, (6042)	
2	1319578	2	SCREW PLUG	
3	70022209	6	CAP SCREW, M12X105	
4	70022779	10	O-RING, (6036)	
	8036847	10	O-RING, (6042)	
5	80304462	4	O-RING	
6	70022250	2	PISTON	
7	70022190	2	PISTON PACKING	
8	70022193	2	BACKUP RING	
9	70022189	2	PISTON PACKING	
10	70022194	2	BACKUP RING	
11	70022236	2	RING	
12	70022183	2	CUP SPRING	
13	70022198	2	RETAINING RING	
14	70022235	2	WASHER	
15	70022186	8	SLOT PIN	
16	1319214	6	CAP SCREW, M8X40	
17	70022196	8	O.CLUTCH DISC	
18	70022176	6	I.CLUTCH DISC	
19	70022253	2	DISC CARRIER	
20	10731949	4	RETAINING RING	
21	70022171	2	BREATHER	
22	70022280	2	SCREW PLUG, (6036), (not shown)	
	70022215	2	SCREW PLUG, (6042), (not shown)	
23	8036447	2	BEARING	
24	1319537	AR	SHIM, A=0.95	
	1319545	AR	SHIM, A=1.05	
	1319539	AR	SHIM, A=1.15	
	1319540	AR	SHIM, A=1.25	
	1319542	AR	SHIM, A=1.35	



DRIVE TRAIN

Figure 5-15 Rear Axle - Joint Housing



PA3341

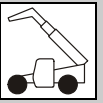


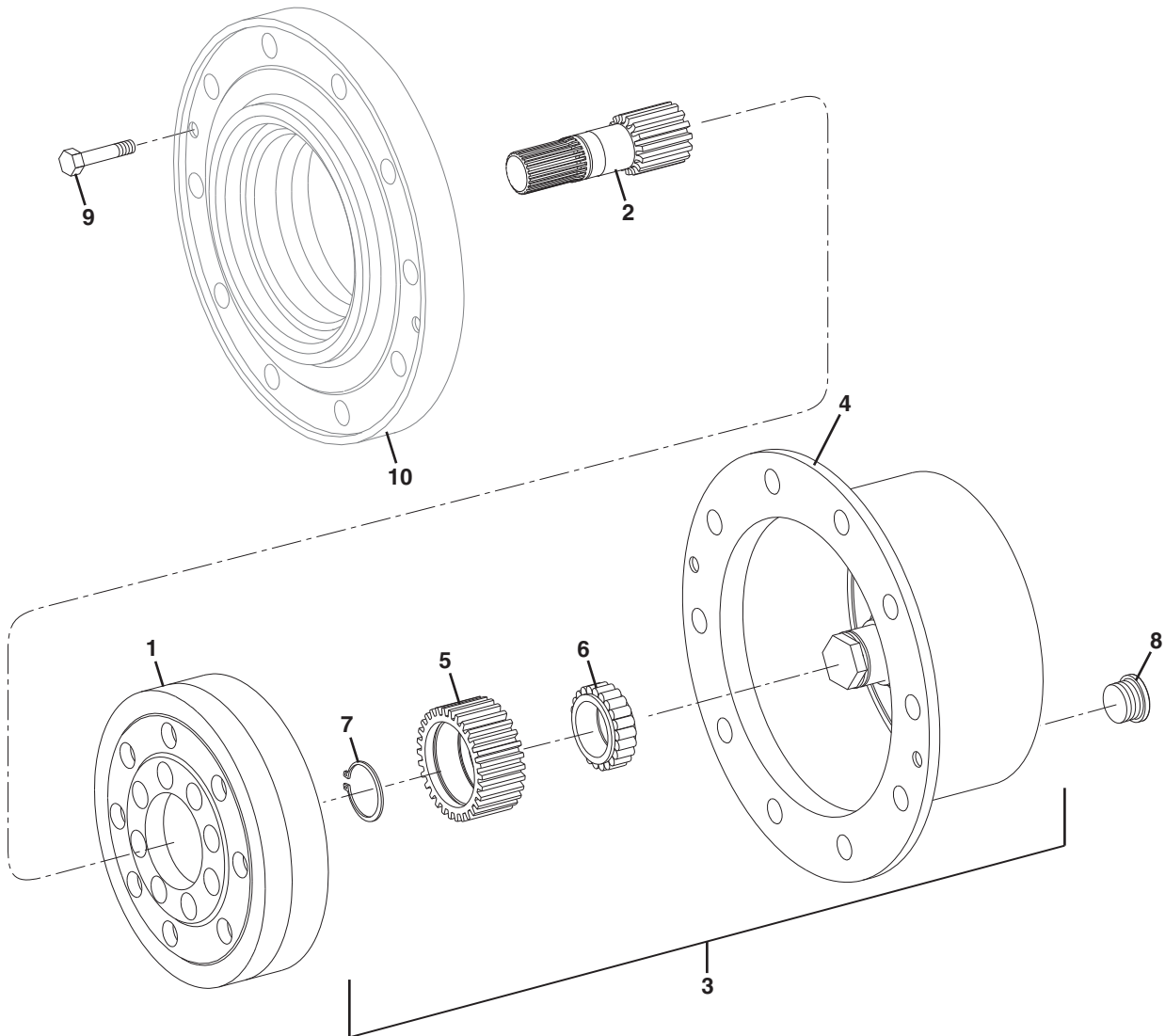
Figure 5-15 Rear Axle - Joint Housing

Item	Part Number	Qty.	Description	Rev.
1	70022237	1	JOINT HOUSING, (right side)	
2	70022238	1	JOINT HOUSING, (left side)	
3	70022223	4	ROLLER BEARING	
4	1319447	4	SHAFT SEAL	
5	70022240	4	BEARING PIN	
6	1319464	16	HEX SCREW, M16X40	
7	70022179	2	BUSHING	
8	10731789	2	RETAINING RING	
9	70022218	2	SHAFT SEAL	
10	1321226	2	RETAINING RING	
11	70022781	2	UNIVERSAL COUPLING DRIVE SHAFT ASSY, (6036) , (includes items 12 thru 15)	
	70022170	2	UNIVERSAL COUPLING DRIVE SHAFT ASSY, (6042) , (includes items 12 thru 15)	
12	70021554	2	JOINT CROSS	
13	70022782	1	CENTRAL PIECE, (6036)	
	70021553	1	CENTRAL PIECE, (6042)	
14	70022187	1	FORK SHAFT	
15	70022188	1	FORK SHAFT	
16	80304173	2	SHAFT SEAL	
17	1319472	4	ROLLER BEARING	
18	70022783	16	HEX SCREW, M14X70, (6036)	
	70022208	16	HEX SCREW, M14X70, (6042)	
19	70022234	16	CENTERING BUSHING	
20	70022249	2	HUB	
21	70022203	2	O-RING	
22	70022230	20	WHEEL BOLT	
23		Ref	WHEEL NUT, (see Figure 5-1 for details)	
24		Ref	SPRING WASHER, (see Figure 5-1 for details)	
25	8036330	4	STOP SCREW, M14X1.5	
26	70022257	2	SPACER TUBE	
27	1319477	2	HEX NUT, M14X1.5	



DRIVE TRAIN

Figure 5-16 Rear Axle - Planetary Drive



PA3351

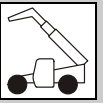


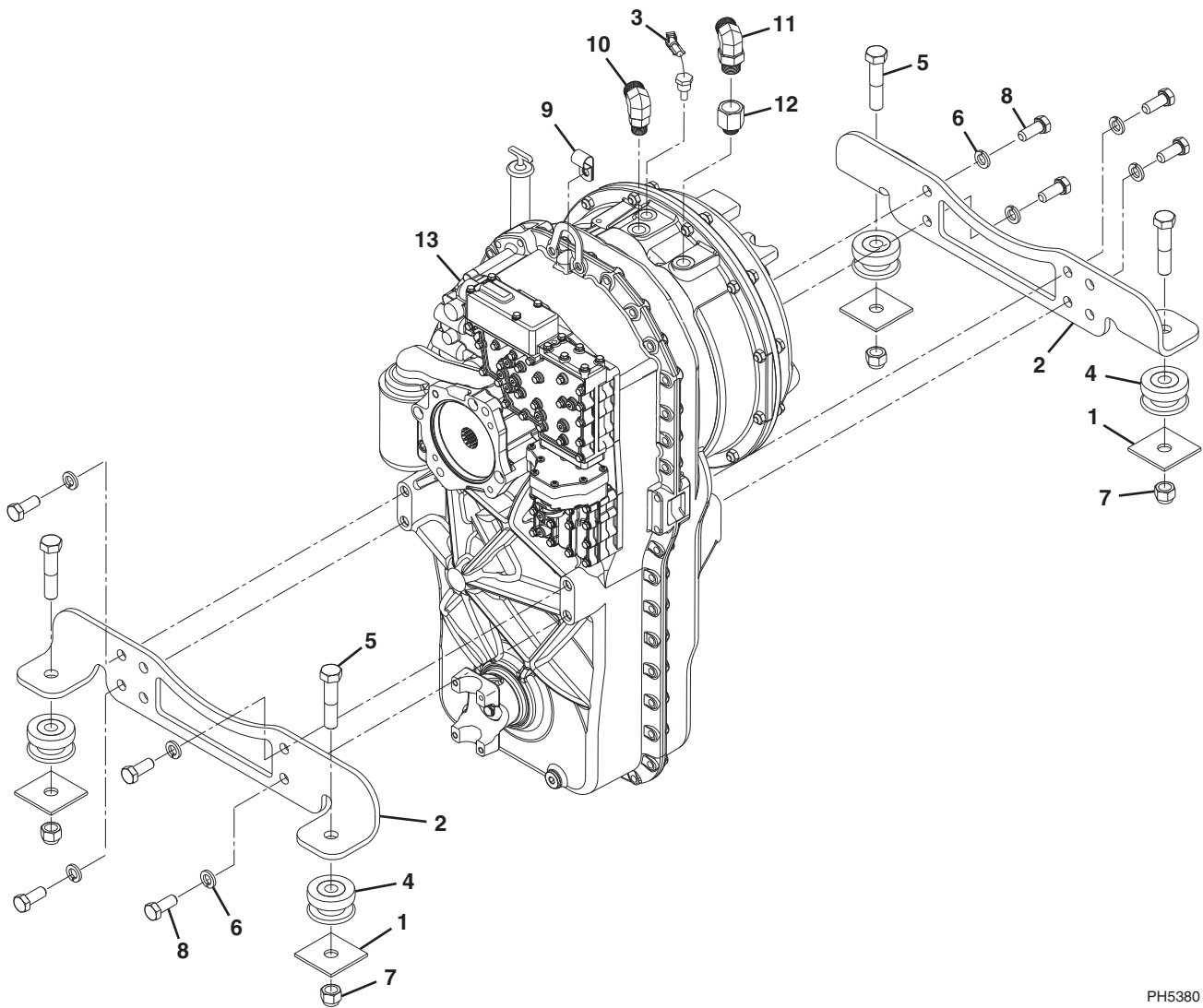
Figure 5-16 Rear Axle - Planetary Drive

Item	Part Number	Qty.	Description	Rev.
1	70022242	1	RING GEAR	
2	70022784	2	SUN GEAR SHAFT, (6036)	
	70022239	2	SUN GEAR SHAFT, (6042)	
3	70022233	2	PLANETARY CARRIER ASSY, (includes items 4 thru 7)	
4	70022256	1	PLANETARY CARRIER	
5	70022243	3	PLANETARY GEAR	
6	70022785	3	CYL ROLLER BEARING, (6036)	
	70022221	3	CYL ROLLER BEARING, (6042)	
7	70022197	3	RETAINING RING	
8	1319578	2	SCREW PLUG	
9	70022207	4	HEX SCREW, M12X30	
10		Ref	HUB, (see Figure 5-8 for details)	



DRIVE TRAIN

Figure 5-17 ZF Transmission Installation



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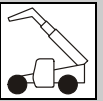


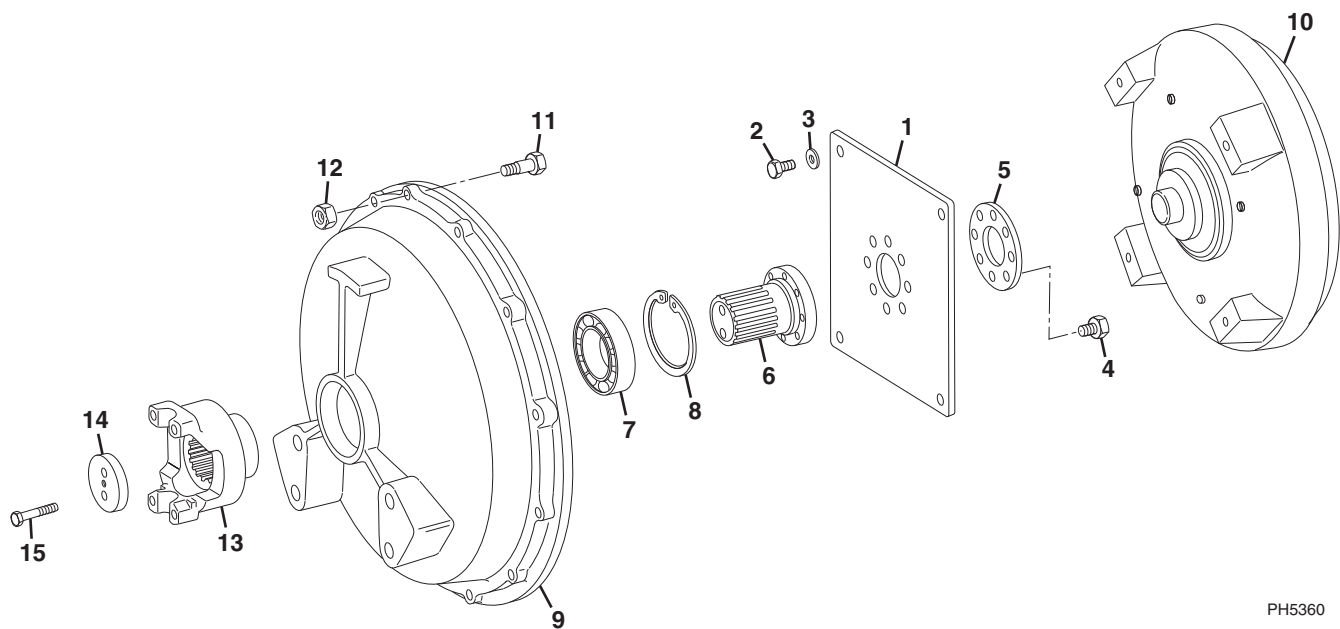
Figure 5-17 ZF Transmission Installation

Item	Part Number	Qty.	Description	Rev.
	1001108524	Ref	TRANSMISSION INSTALLATION, (not available to order, see items 1 thru 13 for service)	A
1	7054351	4	REBOUND WASHER	AA
2	7138634	2	TRANSMISSION MOUNT BRACKET	
3	8223232	1	TRANSMISSION TEMPERATURE SWITCH	
4	8278007	4	RUBBER MOUNT	
5	8303724	4	HEX HD CAPSCREW, 3/4-10X3-1/2, (torque to 180-320 ft-lb/244-434 Nm)	
6	8307049	8	LOCKWASHER, M16	
7	8310067	4	HEX LOCK NUT, 3/4-10	
8	8310215	8	HEX HD CAPSCREW, M16X40, GR8.8, (torque to 107-192 lb-ft/145-260 Nm)	
9	8406105	1	TUBE CLIP	
10	2131210	1	ADAPTER, 90 DEGREE, (includes o-ring)	
11	2131212	1	ADAPTER, 90 DEGREE, (includes o-ring)	
12	8760548	1	ADAPTER, STRAIGHT, (includes o-ring)	
13	8841036	1	TRANSMISSION, 4WG98-TC	
		Ref	ENGINE CONNECTION & CONVERTER, (see Figure 5-18 for details)	AA
		Ref	INPUT SHAFTS, (see Figure 5-19 for details)	
		Ref	GEARBOX HOUSING, (see Figure 5-20 for details)	
		Ref	COUPLING GROUP 1, (see Figure 5-21 for details)	
		Ref	COUPLING GROUP 2, (see Figure 5-22 for details)	
		Ref	COUPLING GROUP 3, (see Figure 5-23 for details)	
		Ref	COUPLING GROUP 4, (see Figure 5-24 for details)	
		Ref	REVERSING GEAR GROUP 1, (see Figure 5-25 for details)	
		Ref	REVERSING GEAR GROUP 2, (see Figure 5-26 for details)	
		Ref	OUTPUT, (see Figure 5-27 for details)	
		Ref	CONTROL UNIT, (see Figure 5-28 for details)	
		Ref	VALVE HOUSING ASSY, (see Figure 5-29 for details)	
		Ref	VALVE BLOCK ASSY, (see Figure 5-30 for details)	
		Ref	OIL PUMP & FILTER, (see Figure 5-31 for details)	



DRIVE TRAIN

Figure 5-18 ZF Transmission - Engine Connection & Converter



PH5360

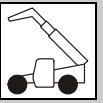


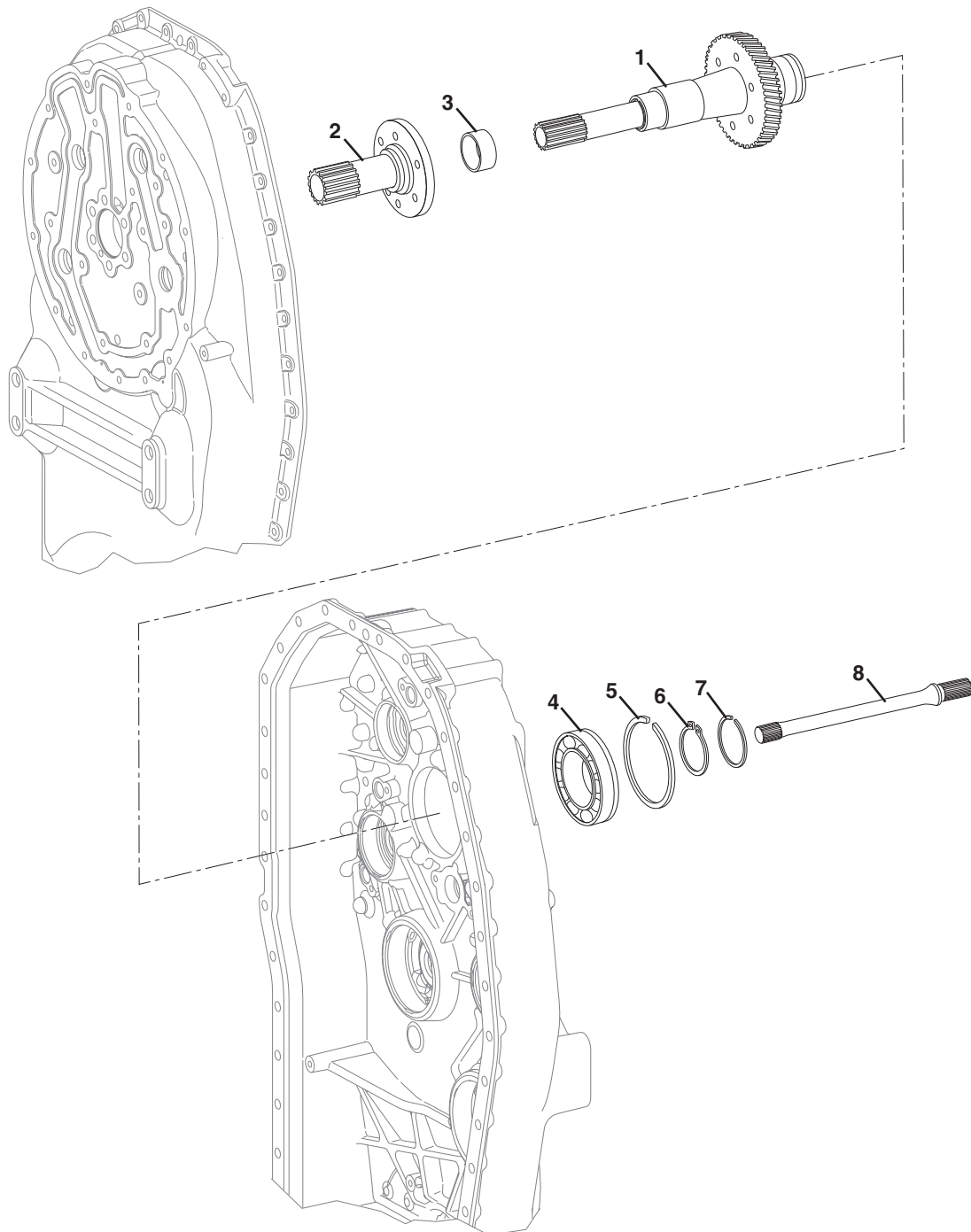
Figure 5-18 ZF Transmission - Engine Connection & Converter

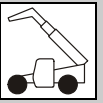
Item	Part Number	Qty.	Description	Rev.
1	1319203	1	DIAPHRAGM	
2	1319204	4	HEX HD CAPSCREW, M10X18mm	
3	10732095	4	WASHER, 10.5	
4	10731702	8	HEX HD CAPSCREW, M10X16mm	
5	1319213	1	WASHER	
6	70023482	1	INPUT SHAFT	
7	1319209	1	BALL BEARING	
8	1319210	1	RETAINING RING	
9	8036021	1	COVER	
10	8036022	1	CONVERTER	
11	10731748	12	HEX HD CAPSCREW, M10X45mm	
12	10731751	12	HEX NUT, M10	
13	1319211	1	END YOKE	
14	1319205	1	WASHER	
15	70023483	2	HEX HD CAPSCREW	



DRIVE TRAIN

Figure 5-19 ZF Transmission - Input Shafts



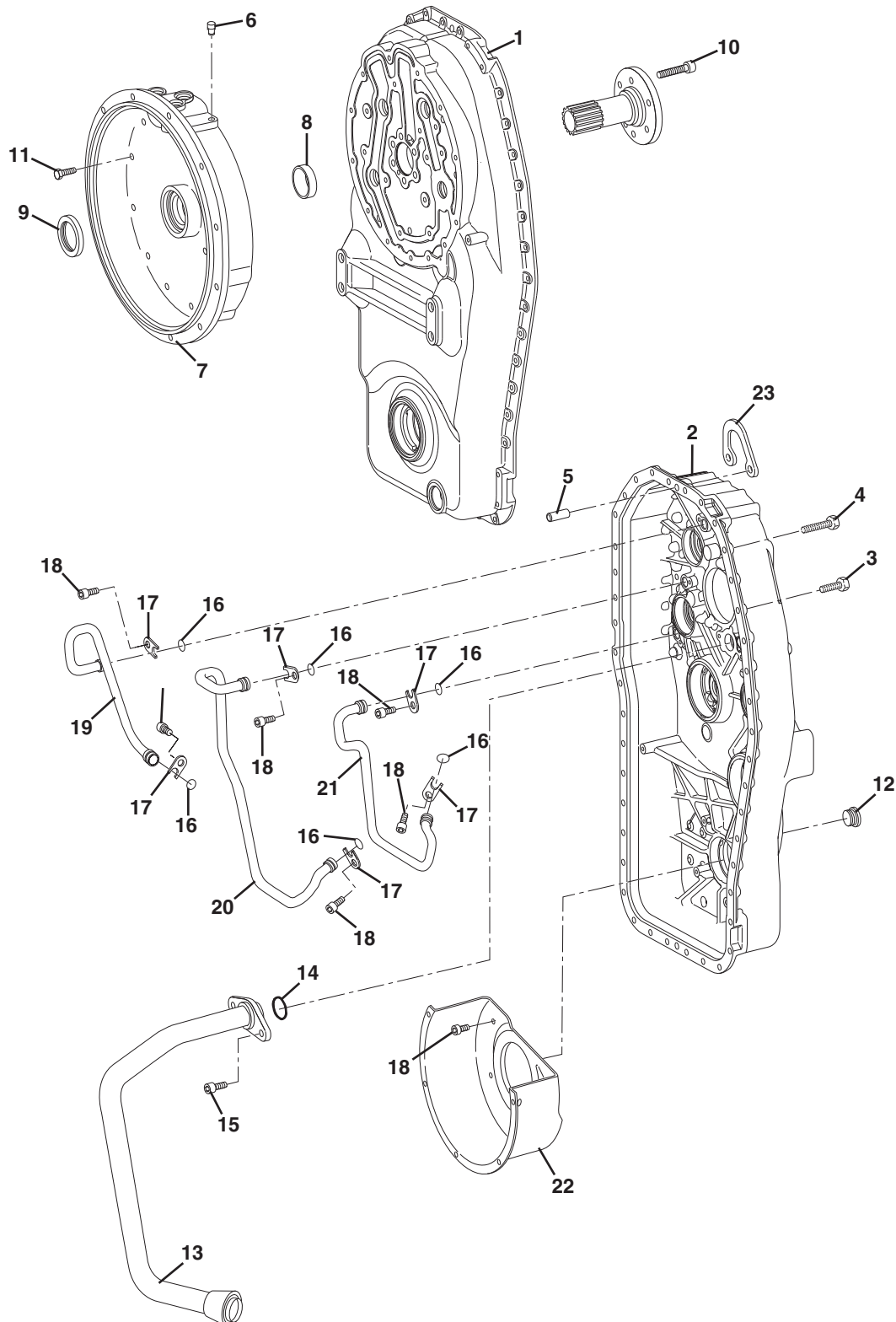
**Figure 5-19 ZF Transmission - Input Shafts**

Item	Part Number	Qty.	Description	Rev.
1	8036023	1	TURBINE SHAFT	
2	1319557	1	STATOR SHAFT	
3	1319558	1	BEARING BUSHING	
4	1319563	1	BALL BEARING	
5	10731913	1	SNAP RING	
6	80304405	1	RETAINING RING, 55X2.00	
7	1319565	1	PISTON RING, 55X3.00	
8	1319566	1	CENTRAL SHAFT	



DRIVE TRAIN

Figure 5-20 ZF Transmission - Gearbox Housing



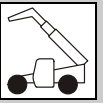


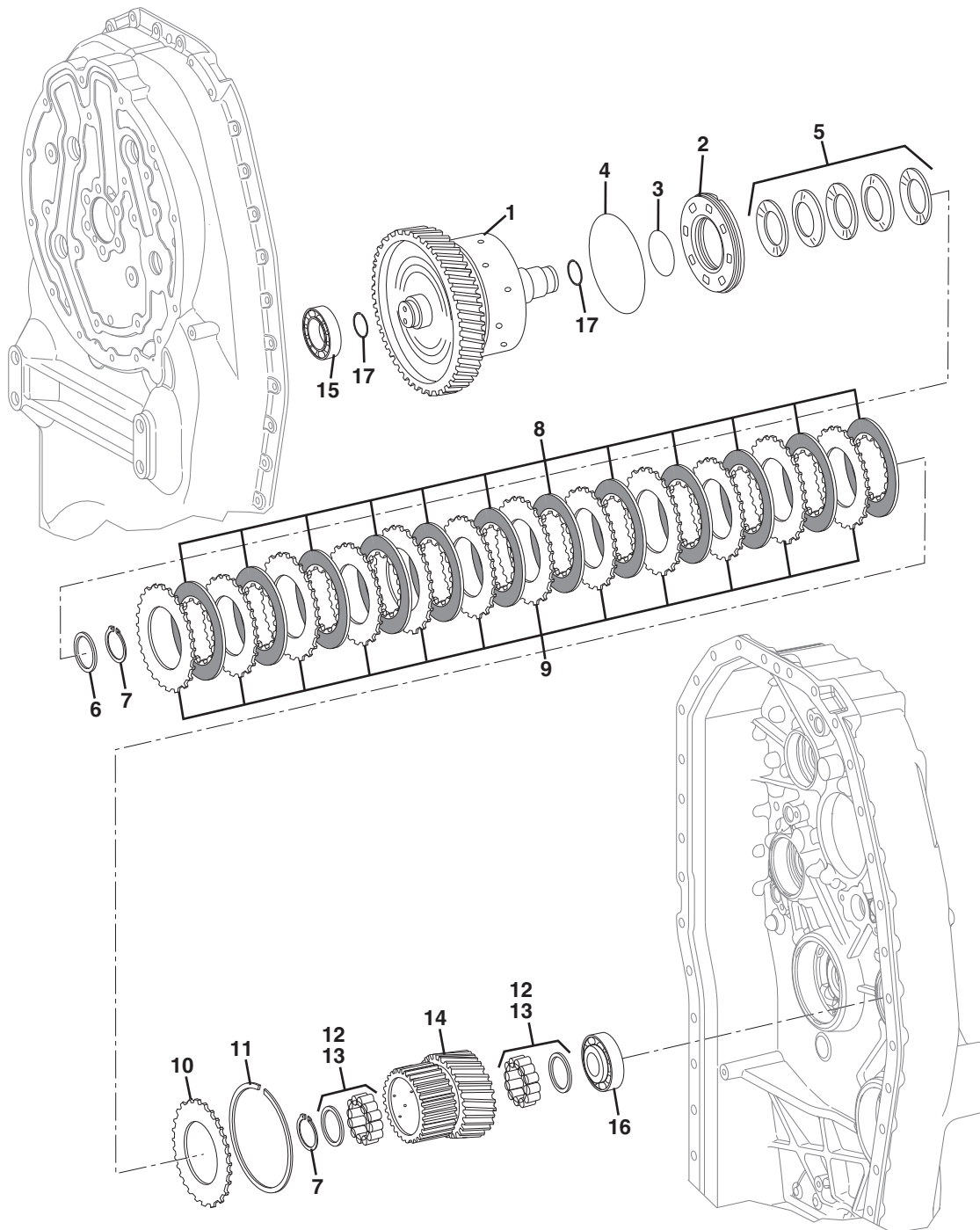
Figure 5-20 ZF Transmission - Gearbox Housing

Item	Part Number	Qty.	Description	Rev.
1	8036024	1	HOUSING I	
2	8036025	1	HOUSING II	
3	1319569	36	HEX HD CAPSCREW, M10X30mm	
4	1319570	6	HEX HD CAPSCREW, M10X50mm	
5	1319571	2	CYLINDRICAL PIN, M6X24mm	
6	10731744	1	BREATHER	
7	1319574	1	CONVERTER BELL	
8	1319575	1	BEARING BUSHING	
9	1319576	1	SHAFT SEAL	
10	1319577	6	SOCKET HD CAPSCREW, M10X50mm	
11	1319569	23	HEX HD CAPSCREW, M10X30mm	
12	1319578	1	DRAIN PLUG, 7/8-14	
13	8036026	1	OIL SUCTION PIPE	
14	1319581	1	O-RING, 30X3.00	
15	1319582	2	SOCKET HD CAPSCREW, M8X20mm	
16	1319583	6	O-RING, 14X2.00	
17	1319584	6	FIXING PLATE	
18	1319585	11	SOCKET HD CAPSCREW, M8X16mm	
19	1319586	1	PIPE	
20	1319587	1	PIPE	
21	8036027	1	PIPE	
22	8036028	1	SCREEN SHEET	
23	1319590	1	BRACKET	



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Figure 5-21 ZF Transmission - Coupling Group 1



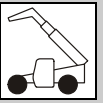


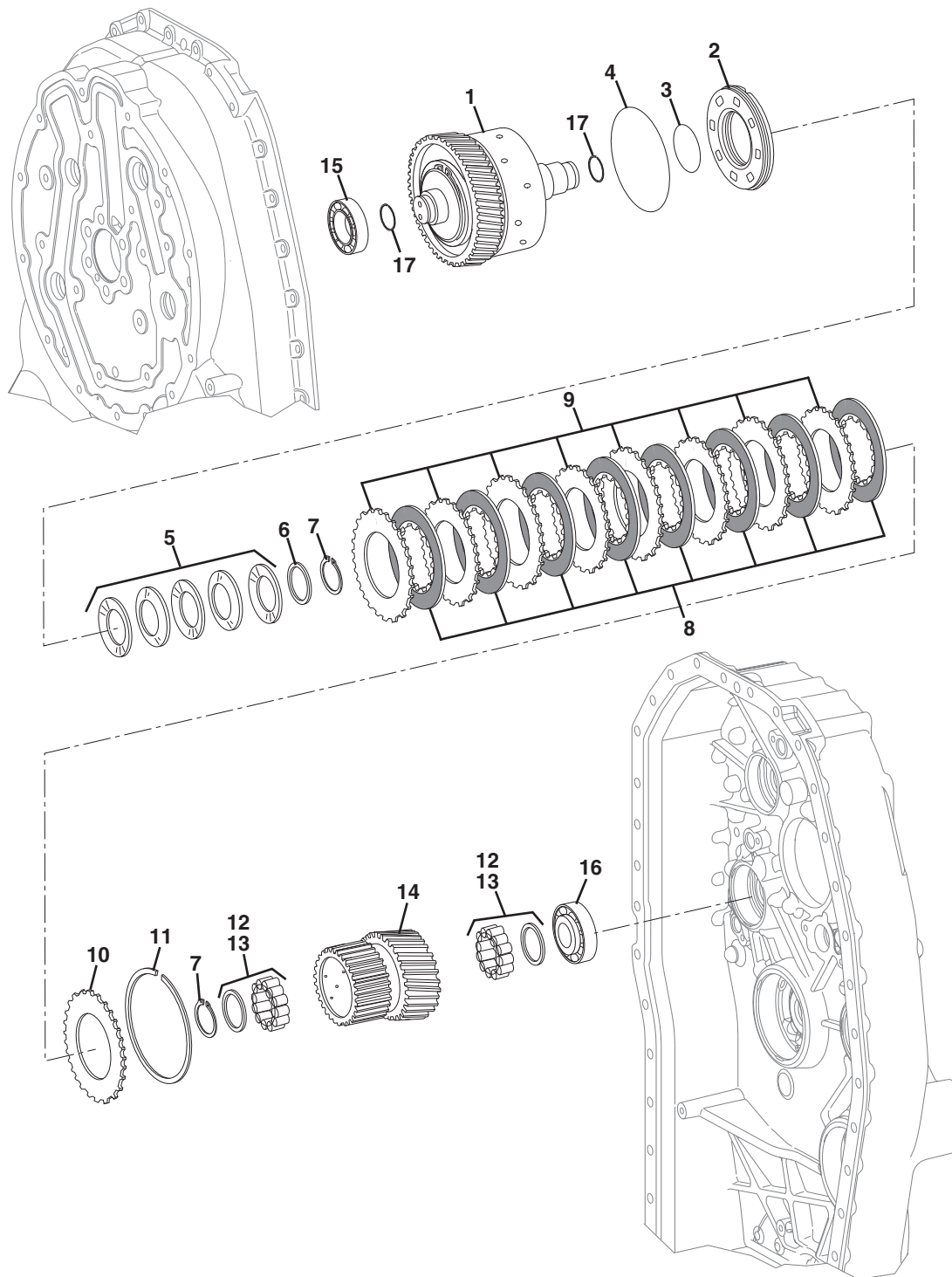
Figure 5-21 ZF Transmission - Coupling Group 1

Item	Part Number	Qty.	Description	Rev.
1	1319591	1	COUPLING	
2	1319592	1	PISTON	
3	1319593	1	O-RING, 52X3.00	
4	1319594	1	O-RING, 115X3.00	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM, 2.00	
7	10731845	2	RETAINING RING, 40X1.75	
8	7026758	12	LIN.CLUTCH DISC	
9	7026759	12	O.CLUTCH DISC	
10	7026760	1	SHIM, END	
11	1319600	1	SNAP RING, 4.00	
	1319601	1	SNAP RING, 3.50	
	1319602	1	SNAP RING, 3.00	
	1319603	1	SNAP RING, 2.50	
	1319604	1	SNAP RING, 2.00	
12	1319605	2	ROLLER CAGE	
13	1319606	2	ROLLER CAGE	
14	1319607	1	DISC CARRIER	
15	1319608	1	ROLLER BEARING	
16	1319609	1	ROLLER BEARING	
	1319610	1	ROLLER BEARING	
	1319611	1	ROLLER BEARING	
17	1319612	2	PISTON RING, 30X2.00	



DRIVE TRAIN

Figure 5-22 ZF Transmission - Coupling Group 2



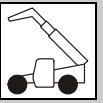
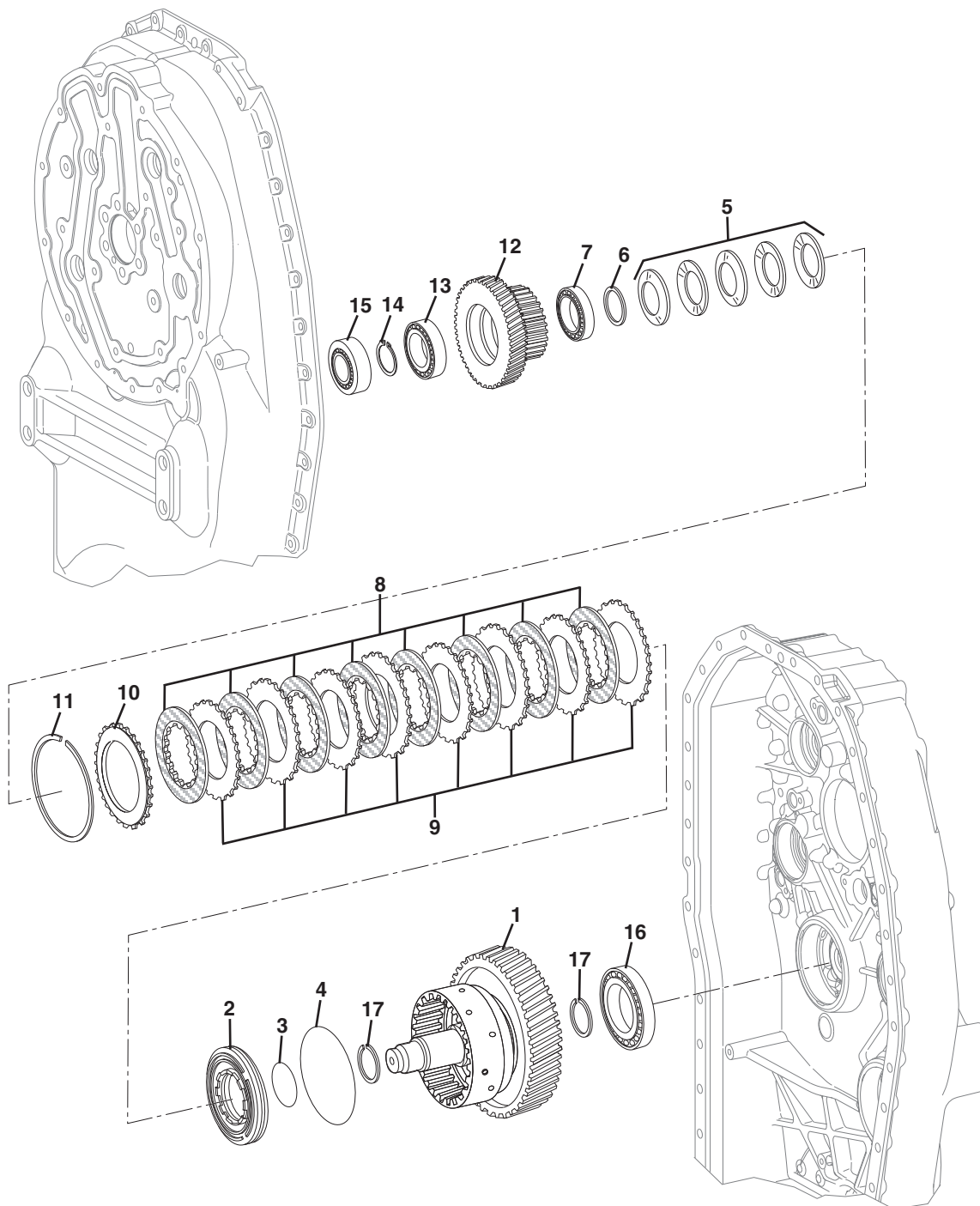


Figure 5-22 ZF Transmission - Coupling Group 2

Item	Part Number	Qty.	Description	Rev.
1	1319613	1	COUPLING	
2	8036029	1	PISTON	
3	1319593	1	O-RING, 52X3.00	
4	1319594	1	O-RING, 115X3.00	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM, 2.00	
7	10731845	2	RETAINING RING, 40X1.75	
8	7026758	8	LIN.CLUTCH DISC	
9	7026759	8	O.CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	1	SNAP RING, 4.00	
	1319601	1	SNAP RING, 3.50	
	1319602	1	SNAP RING, 3.00	
	1319603	1	SNAP RING, 2.50	
	1319604	1	SNAP RING, 2.00	
12	1319605	2	ROLLER CAGE	
13	1319606	2	ROLLER CAGE	
14	1319614	1	DISC CARRIER	
15	1319615	1	ROLLER BEARING	
16	8036190	1	ROLLER BEARING ASSY	
	7029532	1	OUTER RING	
	7029533	1	INNER RING	
17	1319612	2	PISTON RING, 30X2.00	



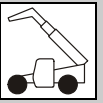


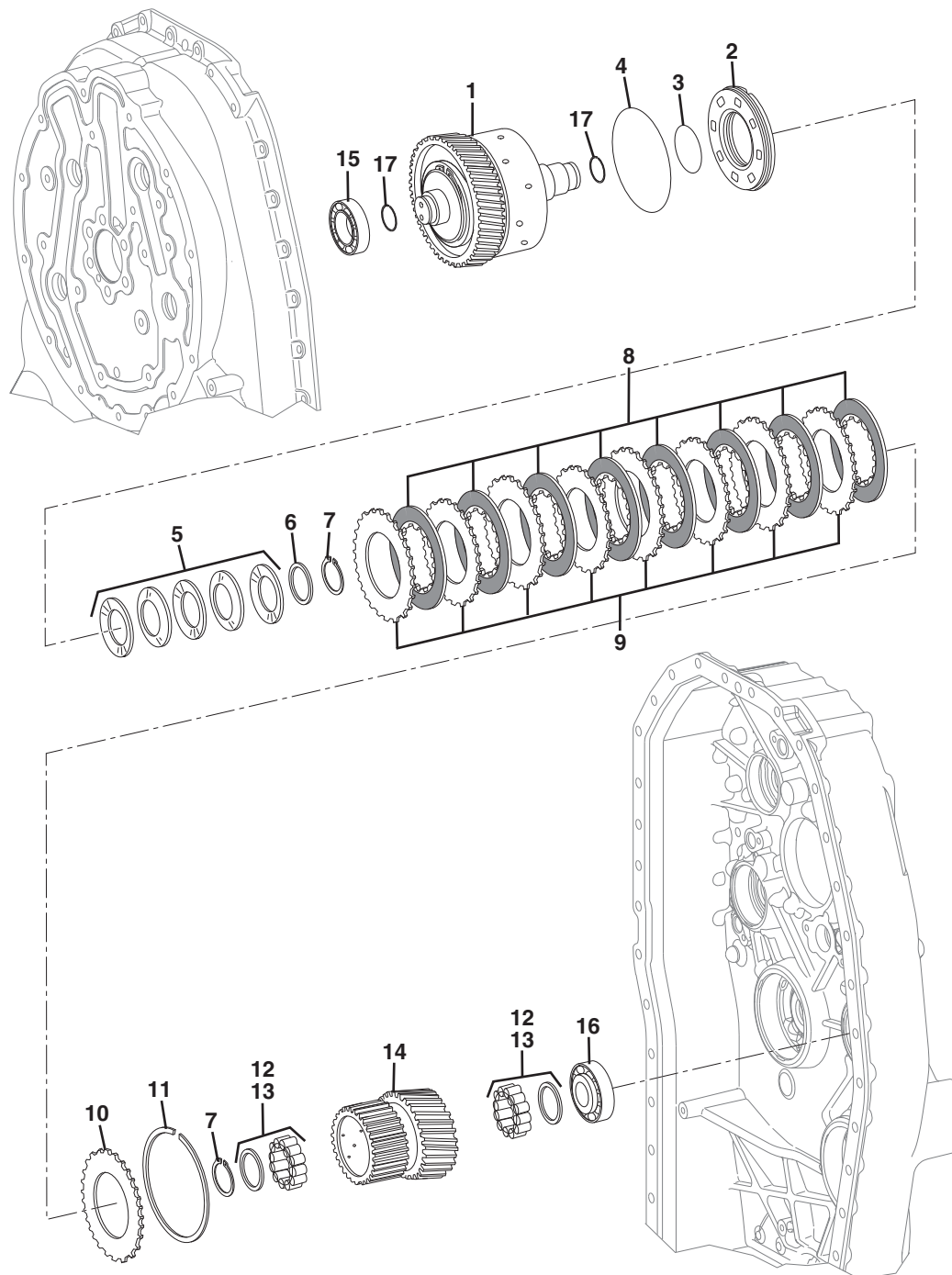
Figure 5-23 ZF Transmission - Coupling Group 3

Item	Part Number	Qty.	Description	Rev.
1	1319616	1	COUPLING	
2	8036029	1	PISTON	
3	1319593	1	O-RING, 52X3.00	
4	1319594	1	O-RING, 115X3.00	
5	1319595	5	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	7026758	8	LIN.CLUTCH DISC	
9	7026759	8	O.CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	1	SNAP RING, 4.00	
	1319601	1	SNAP RING, 3.50	
	1319602	1	SNAP RING, 3.00	
	1319603	1	SNAP RING, 2.50	
	1319604	1	SNAP RING, 2.00	
12	1319619	1	DISC CARRIER	
13	1319620	1	ROLLER BEARING	
14	1319621	1	RETAINING RING, 3.20	
	1319622	1	RETAINING RING, 3.10	
	1319623	1	RETAINING RING, 3.00	
	1319624	1	RETAINING RING, 2.90	
	1319625	1	RETAINING RING, 2.80	
	1319626	1	RETAINING RING, 2.70	
	1319627	1	RETAINING RING, 2.60	
	1319628	1	RETAINING RING, 38X2.50	
	1319629	1	RETAINING RING, 38X2.40	
	1319630	1	RETAINING RING, 38X2.30	
	1319631	1	RETAINING RING, 38X2.20	
	1319632	1	RETAINING RING, 38X2.10	
15	8036190	1	ROLLER BEARING ASSY	
	7029532	1	OUTER RING	
	7029533	1	INNER RING	
16	1319633	1	ROLLER BEARING	
17	1319612	2	PISTON RING, 30X2.00	



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Figure 5-24 ZF Transmission - Coupling Group 4



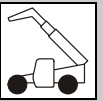
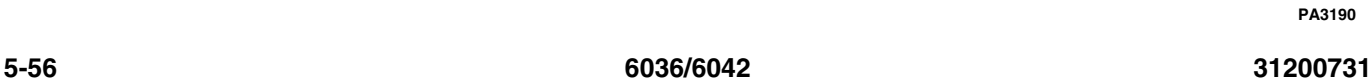


Figure 5-24 ZF Transmission - Coupling Group 4

Item	Part Number	Qty.	Description	Rev.
1	1319634	1	COUPLING	
2	8036029	1	PISTON	
3	1319593	1	O-RING	
4	1319594	1	O-RING	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM, 2.00	
7	10731845	2	RETAINING RING	
8	7026758	8	LIN.CLUTCH DISC	
9	7026759	8	O.CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	1	SNAP RING, 4.00	
	1319601	1	SNAP RING, 3.50	
	1319602	1	SNAP RING, 3.00	
	1319603	1	SNAP RING, 2.50	
	1319604	1	SNAP RING, 2.00	
12	1319605	2	ROLLER CAGE	
13	1319606	2	ROLLER CAGE	
14	1319635	1	DISC CARRIER	
15	1319615	1	ROLLER BEARING	
16	1319636	1	ROLLER BEARING	
17	1319612	2	PISTON RING, 30X2.00	



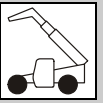


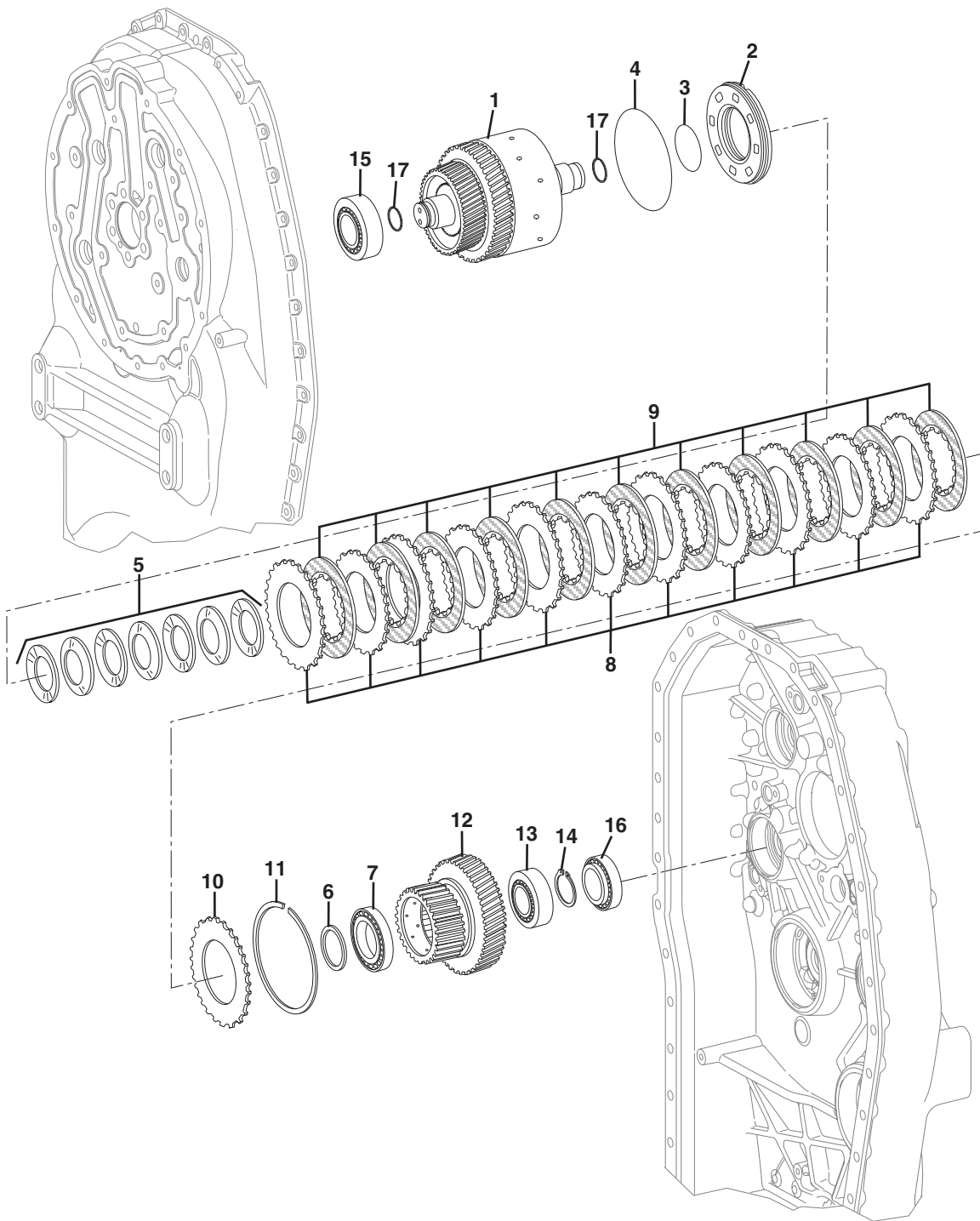
Figure 5-25 ZF Transmission - Reversing Gear Group I

Item	Part Number	Qty.	Description	Rev.
1	1319637	1	COUPLING	
2	8036029	1	PISTON	
3	1319593	1	O-RING	
4	1319594	1	O-RING	
5	1319595	7	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	7026758	11	LIN.CLUTCH DISC	
9	7026759	11	O.CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	1	SNAP RING, 4.00	
	1319601	1	SNAP RING, 3.50	
	1319602	1	SNAP RING, 3.00	
	1319603	1	SNAP RING, 2.50	
	1319604	1	SNAP RING, 2.00	
12	1319638	1	DISC CARRIER	
13	1319620	1	ROLLER BEARING	
14	1319621	1	RETAINING RING, 3.20	
	1319622	1	RETAINING RING, 3.10	
	1319623	1	RETAINING RING, 3.00	
	1319624	1	RETAINING RING, 2.90	
	1319625	1	RETAINING RING, 2.80	
	1319626	1	RETAINING RING, 2.70	
	1319627	1	RETAINING RING, 2.60	
	1319628	1	RETAINING RING, 2.50	
	1319629	1	RETAINING RING, 2.40	
	1319630	1	RETAINING RING, 2.30	
	1319631	1	RETAINING RING, 2.20	
	1319632	1	RETAINING RING, 2.10	
15	1319615	1	ROLLER BEARING	
16	1319636	1	ROLLER BEARING	
17	1319612	2	PISTON RING, 30X2.00	



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Figure 5-26 ZF Transmission - Reversing Gear Group 2



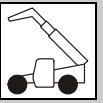


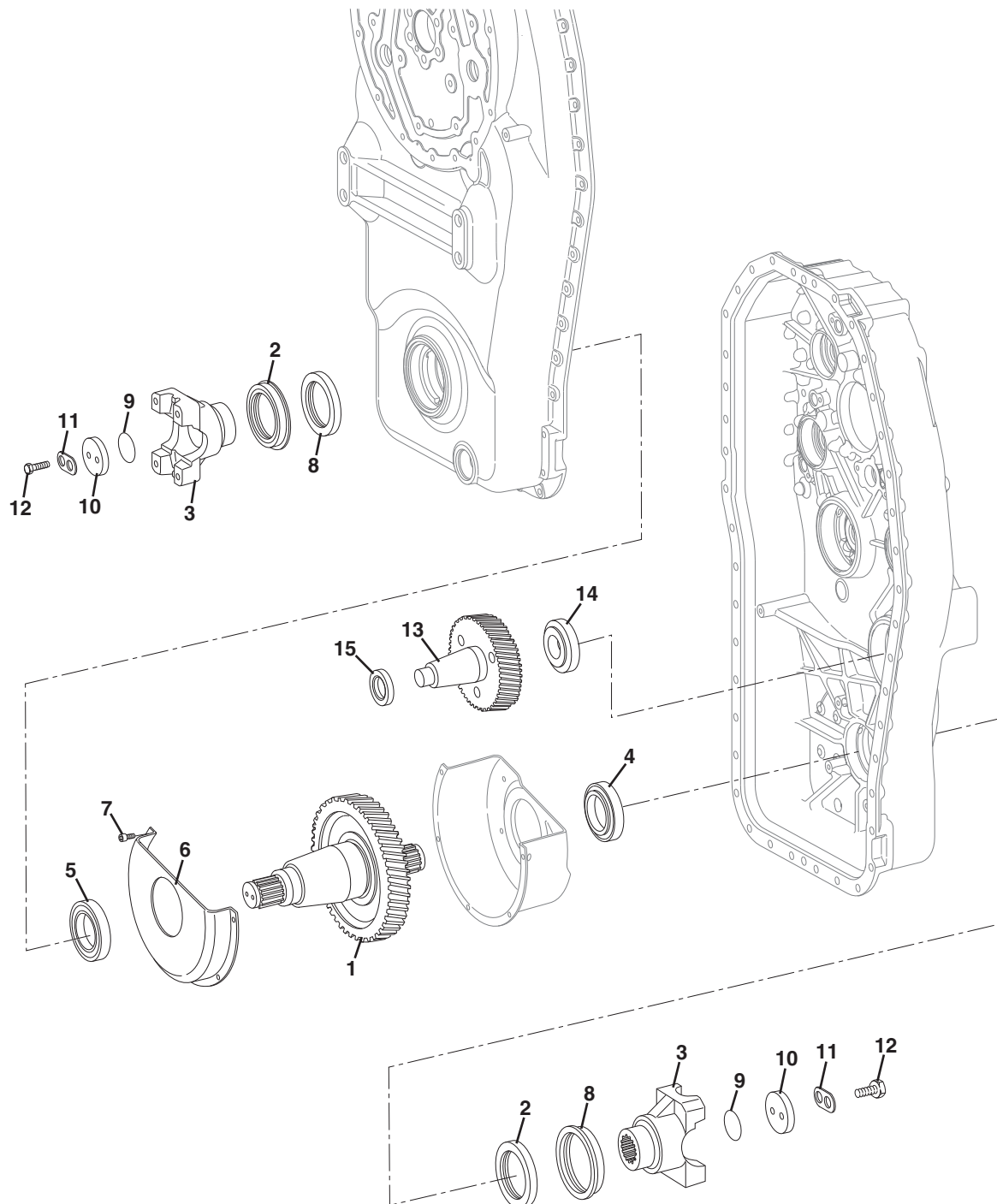
Figure 5-26 ZF Transmission - Reversing Gear Group 2

Item	Part Number	Qty.	Description	Rev.
1	1319639	1	COUPLING	
2	8036029	1	PISTON	
3	1319593	1	O-RING	
4	1319594	1	O-RING	
5	1319595	7	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	7026758	11	LIN.CLUTCH DISC	
9	7026759	11	O.CLUTCH DISC	
10	7026760	1	END SHIM	
11	1319600	1	SNAP RING, 4.00	
	1319601	1	SNAP RING, 3.50	
	1319602	1	SNAP RING, 3.00	
	1319603	1	SNAP RING, 2.50	
	1319604	1	SNAP RING, 2.00	
12	1319638	1	DISC CARRIER	
13	1319620	1	ROLLER BEARING	
14	1319621	1	RETAINING RING, 3.20	
	1319622	1	RETAINING RING, 3.10	
	1319623	1	RETAINING RING, 3.00	
	1319624	1	RETAINING RING, 2.90	
	1319625	1	RETAINING RING, 2.80	
	1319626	1	RETAINING RING, 2.70	
	1319627	1	RETAINING RING, 2.60	
	1319628	1	RETAINING RING, 2.50	
	1319629	1	RETAINING RING, 2.40	
	1319630	1	RETAINING RING, 2.30	
	1319631	1	RETAINING RING, 2.20	
	1319632	1	RETAINING RING, 2.10	
15	1319608	1	ROLLER BEARING	
16	1319636	1	ROLLER BEARING	
17	1319612	2	PISTON RING, 30X2.00	



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Figure 5-27 ZF Transmission - Output



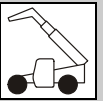


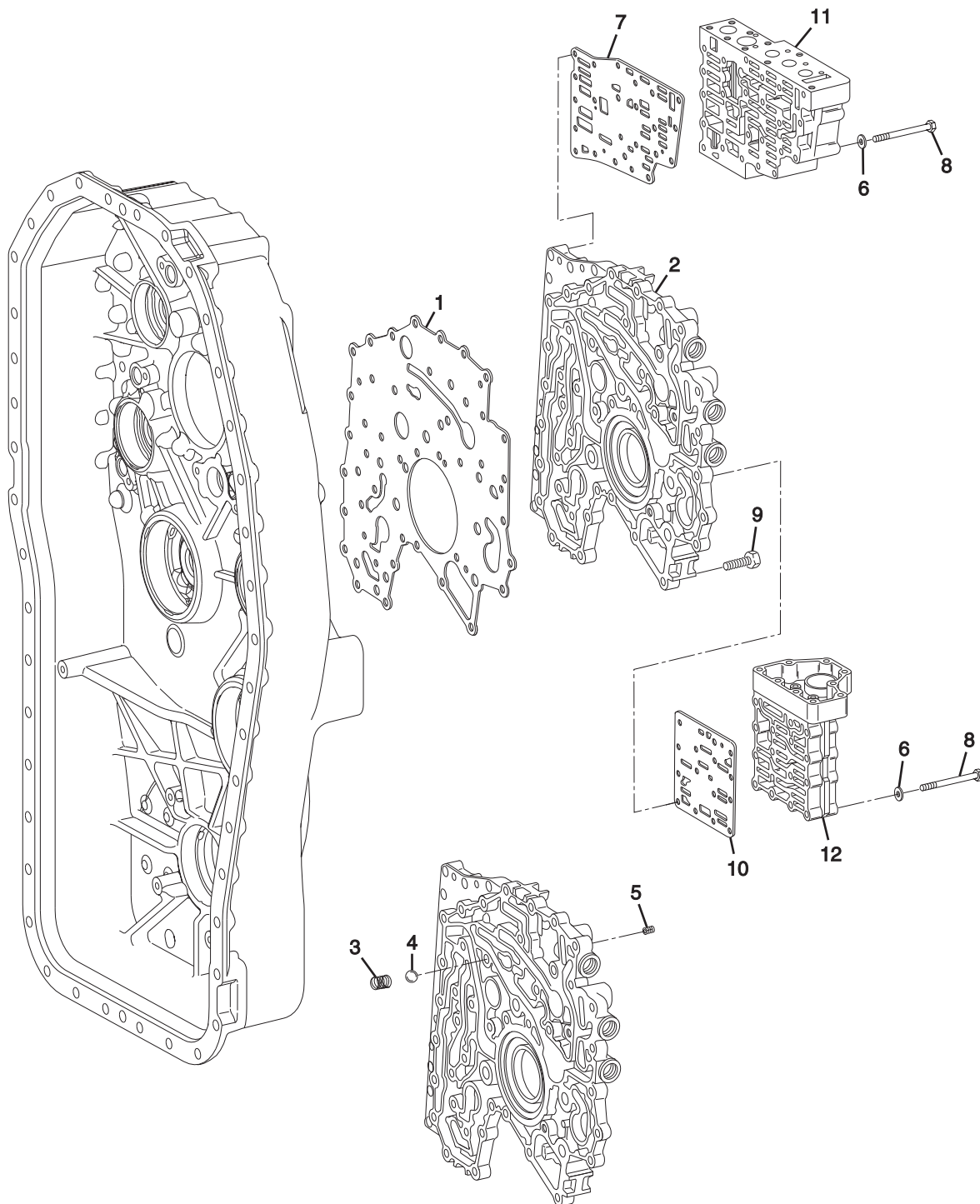
Figure 5-27 ZF Transmission - Output

Item	Part Number	Qty.	Description	Rev.
1	8036030	1	OUTPUT SHAFT	
2	1319641	2	SHAFT SEAL	
3	7027273	2	OUTPUT FLANGE	
4	NSS	1	ROLLER BEARING ASSY	
	70020430	1	CUP	
	70020431	1	CONE	
5	1319643	1	ROLLER BEARING	
6	8036031	1	SCREEN SHEET	
7	1319646	5	HEX HD CAPSCREW, M6X10mm	
8	1319647	2	SCREEN SHEET	
9	10839156	2	O-RING	
10	1319648	2	WASHER 10.00	
11	1319649	2	TAB WASHER	
12	10731959	4	HEX HD CAPSCREW, M8X25mm	
13	8036032	1	INTERMEDIATE SHAFT	
14	1319633	1	ROLLER BEARING	
15	8036190	1	ROLLER BEARING ASSY	
	7029532	1	OUTER RING	
	7029533	1	INNER RING	



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Figure 5-28 ZF Transmission - Control Unit



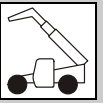


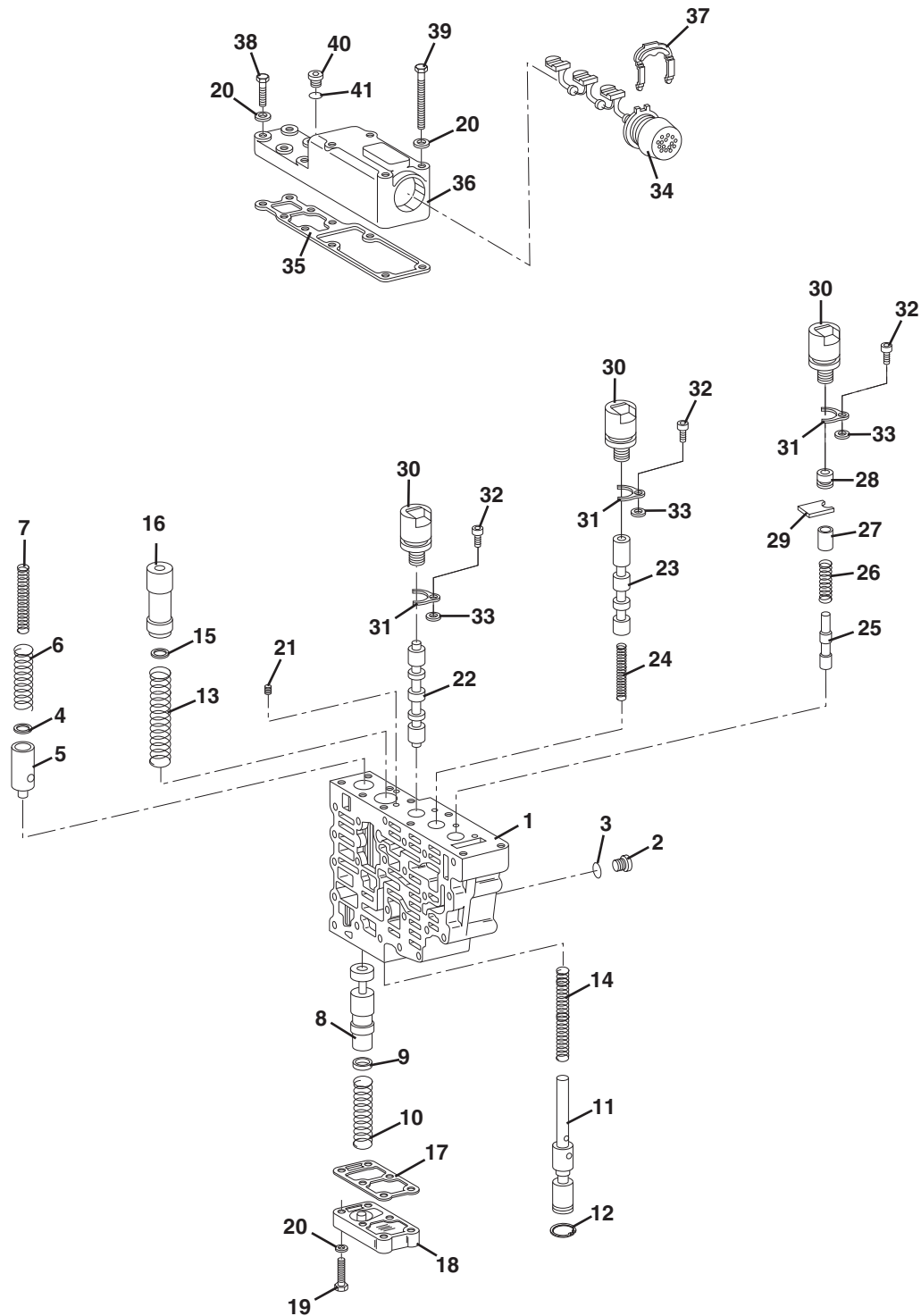
Figure 5-28 ZF Transmission - Control Unit

Item	Part Number	Qty.	Description	Rev.
1	1319650	1	GASKET	
2	8036033	1	DUCT PLATE	
3	10732072	1	COMPRESSION SPRING	
4	10732071	1	BALL	
5	1319652	1	ORIFICE	
6	1319661	19	WASHER, 6.4	
7	70020425	1	INTERM. SHEET	
8	7029037	19	HEX HD CAPSCREW, M6X60mm	
9	1319659	43	TORX SCREW, M8X30mm	
10	70020426	1	INTERM. SHEET	
11		Ref	VALVE HOUSING, (see Figure 5-29 for details)	
12		Ref	VALVE BLOCK, (see Figure 5-30 for details)	



DRIVE TRAIN

Figure 5-29 ZF Transmission - Valve Housing Assembly



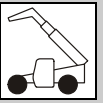


Figure 5-29 ZF Transmission - Valve Housing Assembly

Item	Part Number	Qty.	Description	Rev.
	8036040	1	VALVE HOUSING ASSY, (includes all items)	
1	1319671	1	VALVE HOUSING	
2	1319670	7	SCREW PLUG, M10X1mm	
3	10731709	7	O-RING	
4	8036036	1	WASHER, 1.00	
5	8036037	1	PISTON	
6	1319673	1	COMPRESSION SPRING	
7	8036038	1	COMPRESSION SPRING	
8	1319674	1	PISTON	
9	1319675	1	WASHER, 3.60	
	1319676	1	WASHER, 3.20	
	1319677	1	WASHER, 2.80	
	1319678	1	WASHER, 2.40	
	1319679	1	WASHER, 2.00	
10	1319680	1	COMPRESSION SPRING	
11	1319681	1	CONTROL PISTON	
12	1319682	1	LOCKWASHER, 12.0	
13	1319683	1	COMPRESSION SPRING	
14	1319684	1	COMPRESSION SPRING	
15	1319685	1	WASHER, 2.00	
	1319686	1	WASHER, 1.00	
	1319687	1	WASHER, 0.50	
	1319688	1	WASHER, 0.30	
	1319689	1	WASHER, 0.20	
16	1319690	1	PISTON	
17	1319691	1	SEAL	
18	1319692	1	COVER	
19	1319693	6	SOCKET HD CAPSCREW, M6X25mm	
20	1319661	16	WASHER, 6.4	
21	1319652	1	ORIFICE	
22	1319694	1	VALVE	
23	1319695	1	PISTON	
24	1319696	1	COMPRESSION SPRING	
25	1319697	1	PISTON	
26	1319698	1	COMPRESSION SPRING	
27	1319699	1	SPACER SLEEVE	
28	1319700	1	PLUG	
29	1319701	1	FIXING PLATE	
30	1319702	3	SOLENOID VALVE	
31	10732063	3	FIXING PLATE	
32	1319703	3	HEX HD CAPSCREW, M5X12mm	
33	10732064	3	WASHER, 2.00	
34	1319704	1	WIRING HARNESS	
35	1319705	1	SEAL	
36	8036039	1	COVER	
37	1319707	1	RETAINING CLAMP	
38	1319693	6	HEX HD CAPSCREW, M6X25mm	
39	1319708	4	HEX HD CAPSCREW, M6X60mm	
40	1319670	1	SCREW PLUG, M10X1mm	



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Figure 5-29 ZF Transmission - Valve Housing Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.
41	10731709	1	O-RING, 8X1.5mm	

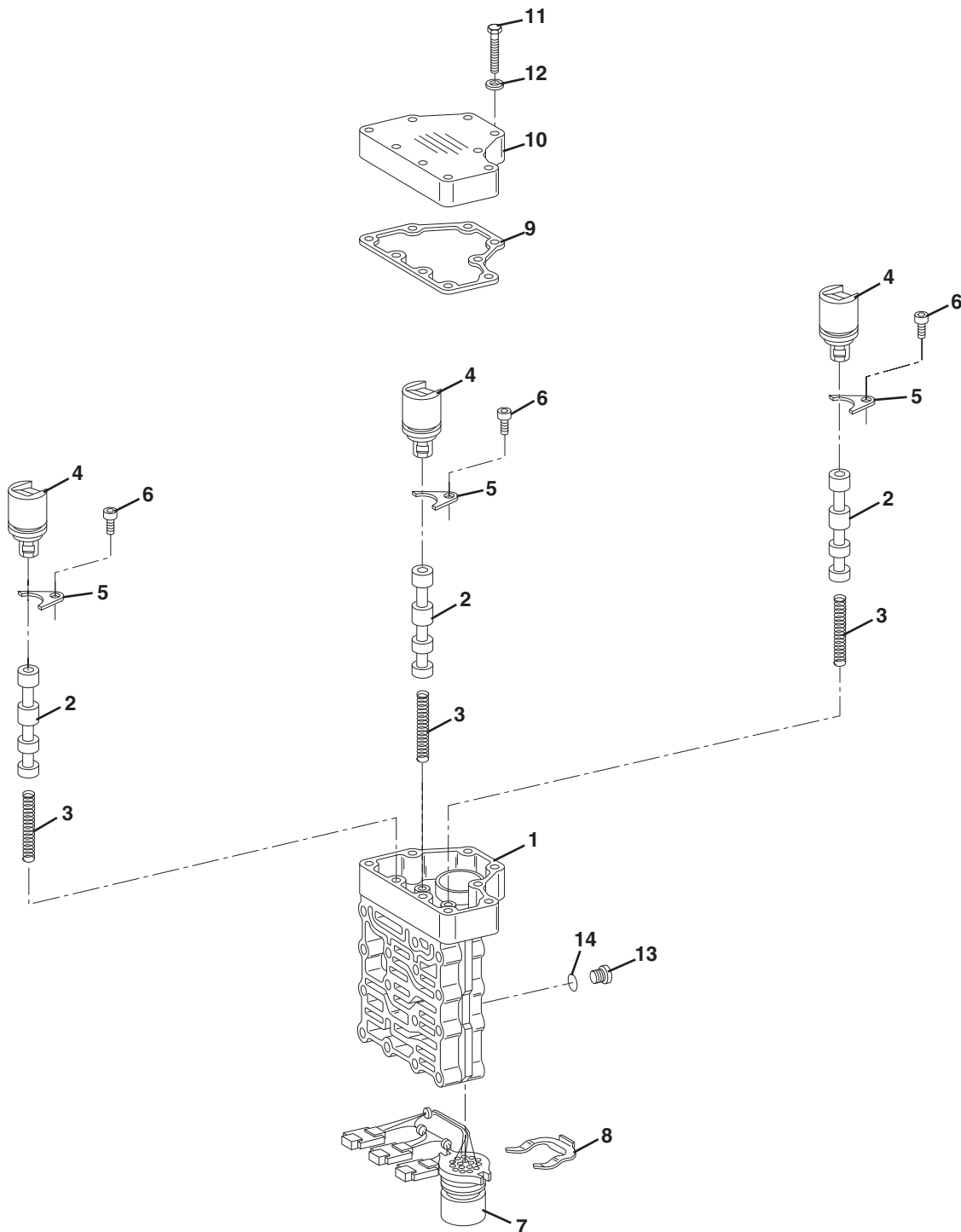
Figure 5-29 ZF Transmission - Valve Housing Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.



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Figure 5-30 ZF Transmission - Valve Block Assembly



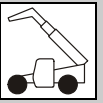


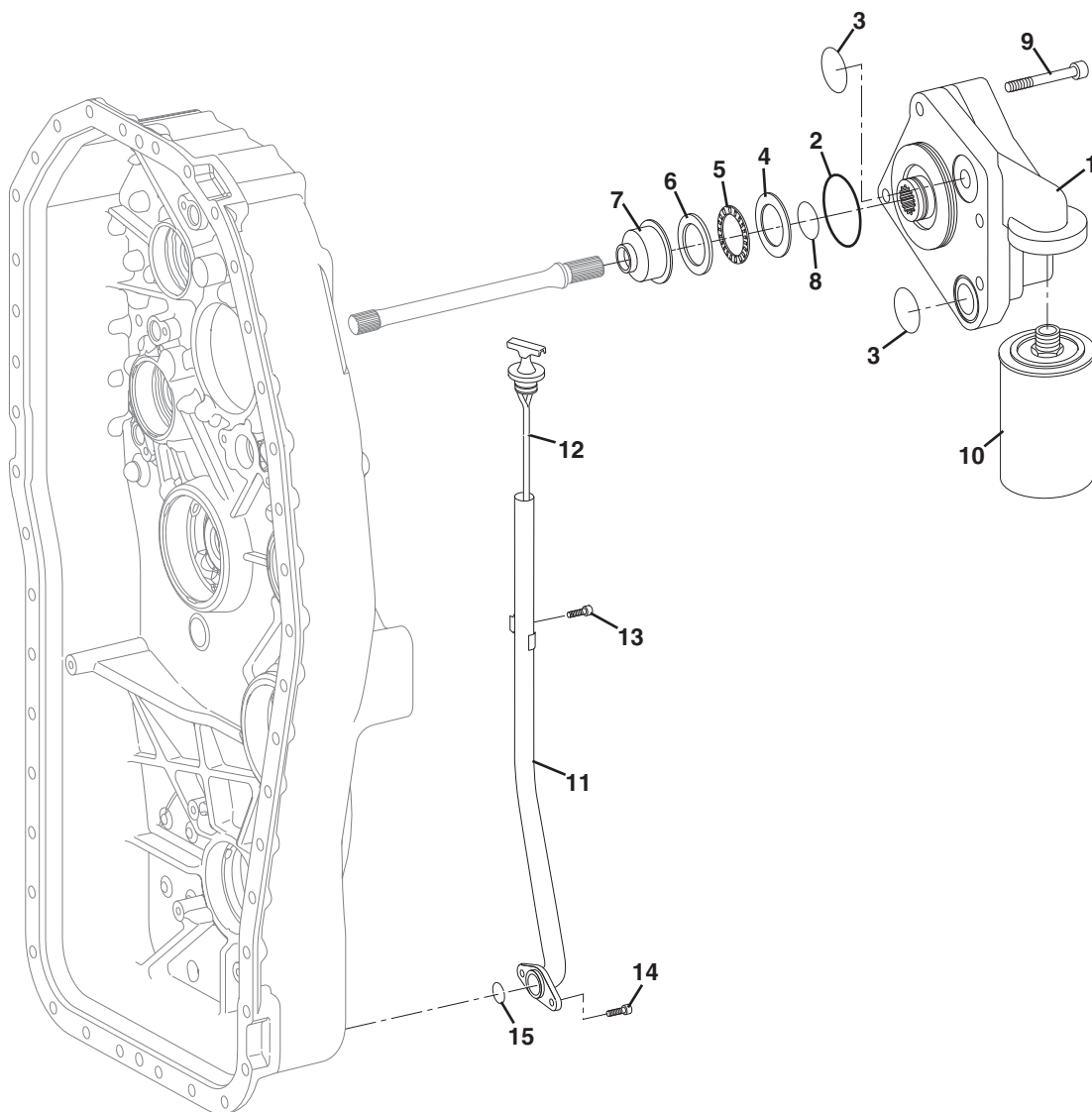
Figure 5-30 ZF Transmission - Valve Block Assembly

Item	Part Number	Qty.	Description	Rev.
	70020427	1	VALVE BLOCK ASSY, (includes all items), (1-piece gasket design)	
1	1319709	1	VALVE BLOCK	
2	1319710	3	PISTON	
3	1319696	3	COMPRESSION SPRING	
4	1319702	3	SOLENOID VALVE	
5	10732063	3	FIXING PLATE	
6	1319703	3	SOCKET HD CAPSCREW, M5X12mm	
7	1319711	1	WIRING HARNESS	
8	1319707	1	RETAINING CLAMP	
9	1319712	1	GASKET	
10	1319713	1	COVER	
11	1319714	9	HEX HD CAPSCREW, M5X32mm	
12	1319715	9	WASHER, 5.3	
13	1319670	3	SCREW PLUG, M10X1mm	
14	10731709	3	O-RING	



DRIVE TRAIN

Figure 5-31 ZF Transmission - Oil Pump & Filter



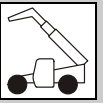


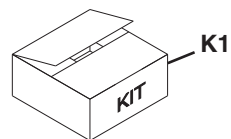
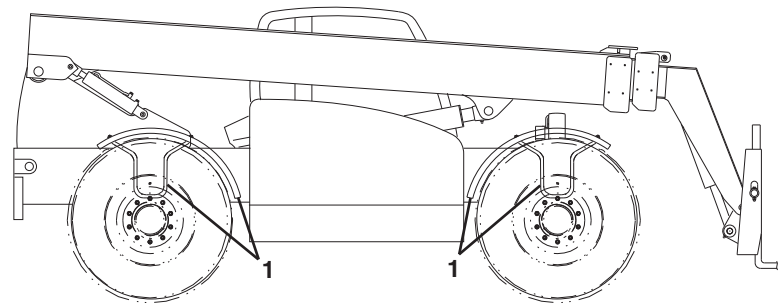
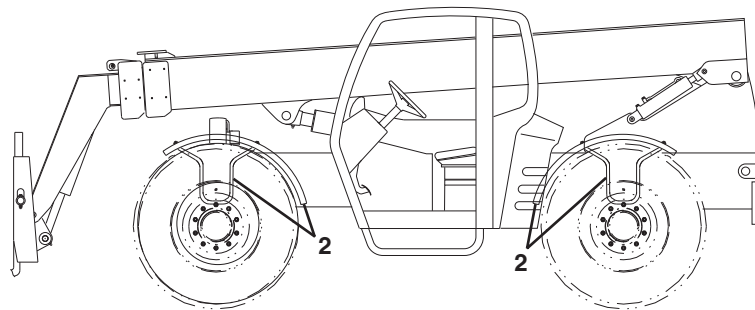
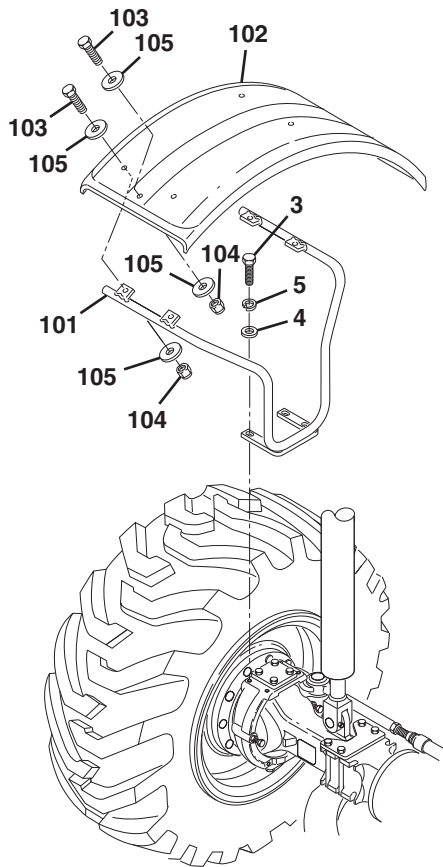
Figure 5-31 ZF Transmission - Oil Pump & Filter

Item	Part Number	Qty.	Description	Rev.
1	1319718	1	PUMP, (includes item 2)	
	7029417	1	O-RING, (between pump halves), (not shown)	
2	8036250	1	O-RING	
3	1319719	2	O-RING	
4	1319720	1	AXIAL WASHER, 40X60X1	
5	1319721	1	AXIAL NEEDLE CAGE	
6	1319722	1	ANGLE DISC	
7	1319723	1	SPACER BUSHING	
8	1319724	1	O-RING	
9	1319725	4	HEX HD CAPSCREW, M12X115mm	
10	1319726	1	TRANSMISSION FILTER	
11	8036041	1	DIPSTICK TUBE	
12	8036042	1	DIPSTICK	
13	1319585	1	SOCKET HD CAPSCREW, M8X16mm	
14	1319582	1	SOCKET HD CAPSCREW, M8X20mm	
15	1319581	1	O-RING	



DRIVE TRAIN

Figure 5-32 Fender Installation



PA4232

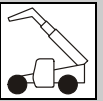


Figure 5-32 Fender Installation

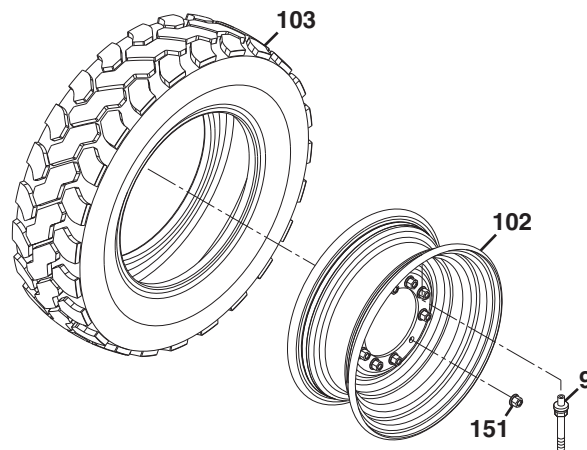
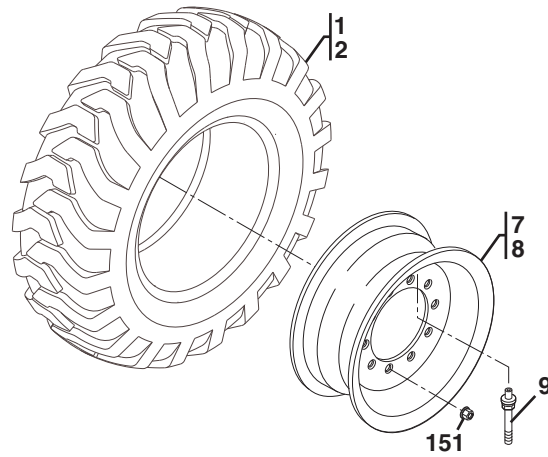
Item	Part Number	Qty.	Description	Rev.
	7150697	1	FENDER INSTALLATION, (includes items 1 thru 5)	AB
1	7150696	2	RH FENDER & BRACKET ASSY, (includes items 101 thru 105)	G
2	7150695	2	LH FENDER & BRACKET ASSY, (includes items 101 thru 105)	G
3	8310164	16	HEX HD CAPSCREW, M12X1-3/4X40	
4	8307220	16	PLAIN WASHER, M12	
5	8307025	16	LOCKWASHER, M12	
101	0903609	1	FENDER MOUNTING BRACKET	
102	7150706	1	FENDER	
103	8303626	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
104	8305644	4	HEX LOCKNUT, 1/2-13	
105	8307206	8	PLAIN WASHER, 1/2	
K1	7147400	1	FENDER FIELD KIT, (four wheel installation)	



DRIVE TRAIN

Figure 5-33 Wheel Assembly

PNEUMATIC



PA4781

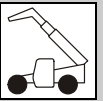


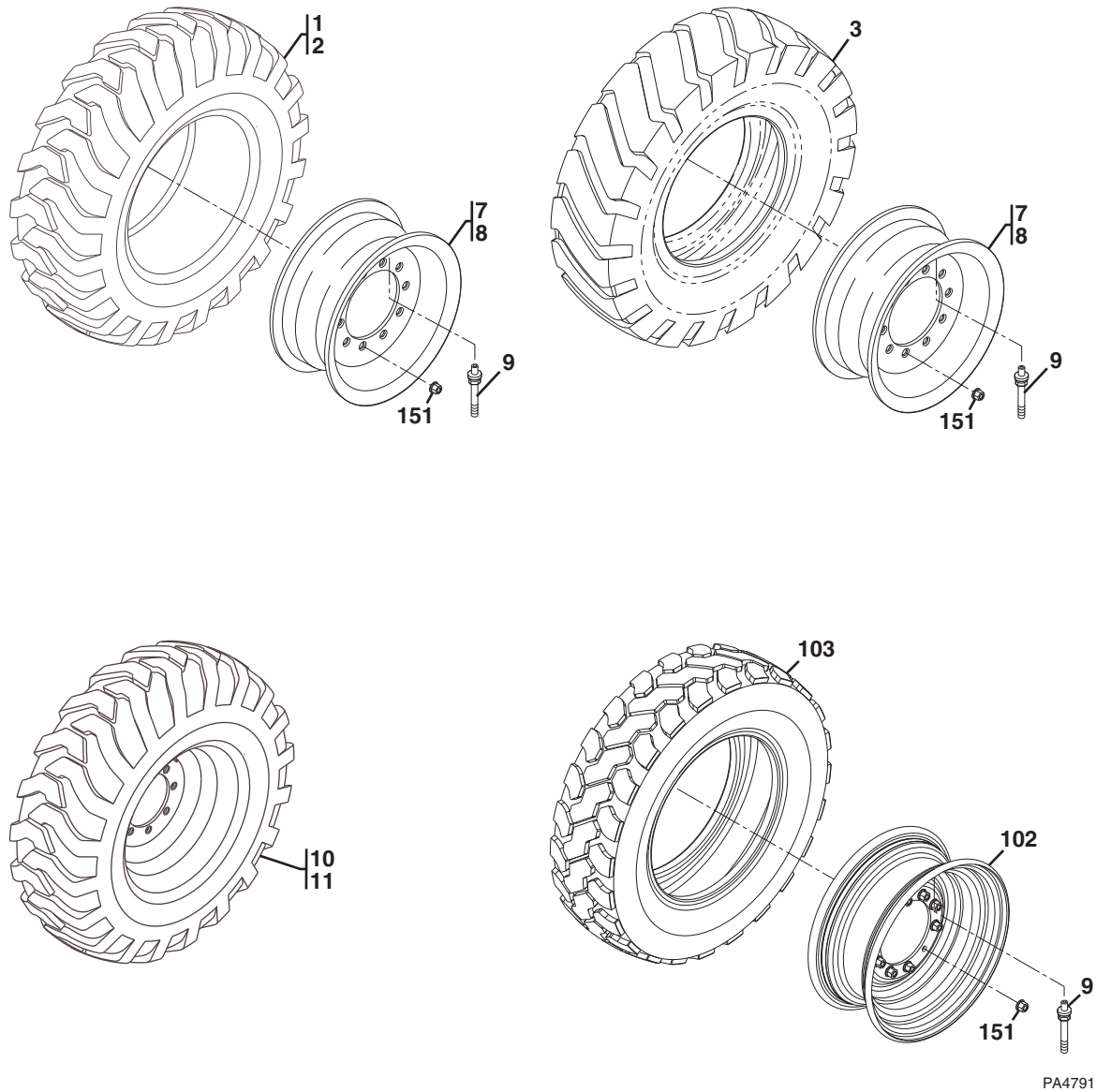
Figure 5-33 Wheel Assembly

Item	Part Number	Qty.	Description	Rev.
	7138658	1	TIRE & RIM ASSY, (right side), 13.00X24, 12 PLY, G2, (includes items 1, 7 & 9)	D
	7138659	1	TIRE & RIM ASSY, (left side), 13.00X24, 12 PLY, (includes items 1, 7 & 9)	D
	7138660	1	TIRE & RIM ASSY, (right side), 15.50X25, 12 PLY, G2, (includes items 2, 8 & 9)	D
	7138661	1	TIRE & RIM ASSY, (left side), 15.50X25, 12 PLY, G2, (includes items 2, 8 & 9)	E
	1001100324	1	TIRE & RIM ASSY, 370/75-28, 14 PLY, (includes items 9, 102 & 103)	C
1	8780031	1	TIRE, 13.00X24, 12 PLY	
2	8780036	1	TIRE, 15.50X25, 12 PLY	
7	7301054	1	RIM, 9X24, 1.06 OFFSET	
8	7301056	1	RIM, 13X25, 1.18 OFFSET	
9	8786514	1	VALVE STEM	
102	1001100005	1	RIM, 28X11, 1.18 OFFSET	
103	1001100284	1	TIRE, 370/75-28, 14 PLY	
151		Ref	WHEEL NUT, (see Figure 5-1 for details)	
N1	Note	Ref	WHEN ORDERING TIRES CONTACT JLG AND SPECIFY THE BRAND OF TIRE.	



Figure 5-33 Wheel Assembly

FOAM FILLED & SOLID



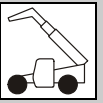


Figure 5-33 Wheel Assembly

Item	Part Number	Qty.	Description	Rev.
	7139159	1	TIRE & RIM ASSY, (right side), FOAM FILLED, 13.00X24, 12 PLY, G-2, (includes items 1, 7 & 9)	D
	7139160	1	TIRE & RIM ASSY, (left side), FOAM FILLED, 13.00X24, 12 PLY, G-2, (includes items 1, 7 & 9)	D
	7139161	1	TIRE & RIM ASSY, (right side), FOAM FILLED, 15.50X25, 12 PLY, L2, (includes items 2, 8 & 9)	C
	7139162	1	TIRE & RIM ASSY, (left side), FOAM FILLED, 15.50X25, 12 PLY, L2, (includes items 2, 8 & 9)	C
	4520319	1	ROCK TIRE & RIM ASSY, FOAM FILLED, 13.00X24, 12 PLY, G-3, (6042) , (includes items 3, 7 & 9)	B
	4520648	1	SOLID TIRE SET, 13.00X24, (includes items 10 & 11)	B
	1001121085	1	TIRE & RIM ASSY, 370/75-28, 14 PLY, FOAM FILLED, 464 lb, (includes items 9, 102 & 103)	A
1	8780031	1	TIRE, 13.00X24, 12 PLY	
2	8780036	1	TIRE, 15.50X25, 12 PLY	
3	8780045	1	ROCK TIRE, 13.00R24, 12 PLY	
7	7301054	1	RIM, 9X24, 1.06 OFFSET	
8	7301056	1	RIM, 13X25, 1.18 OFFSET	
9	8786514	1	VALVE STEM	
10	4520649	1	RH SOLID TIRE & WHEEL ASSY	B
11	4520650	1	LH SOLID TIRE & WHEEL ASSY	B
102	1001100005	1	RIM, 28X11, 1.18 OFFSET	
103	1001100284	1	TIRE, 370/75-28, 14 PLY	
151		Ref	WHEEL NUT, (see Figure 5-1 for details)	
N1	Note	Ref	WHEN ORDERING TIRES CONTACT JLG AND SPECIFY THE BRAND OF TIRE.	
N1	Note	Ref	ASSEMBLIES MAY REQUIRE BALLAST/FOAM FILLING TO MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLING ON A MACHINE. REFER TO OPERATION & SAFETY OR SERVICE MANUALS. PURCHASE INDIVIDUAL TIRE AND/OR RIM ONLY IF ABLE TO FOAM FILL TIRE & WHEEL ASSEMBLY, OTHERWISE, PURCHASE COMPLETE ASSEMBLY.	

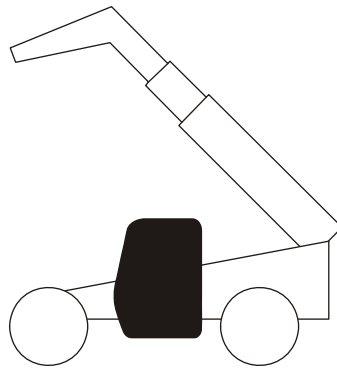


DRIVE TRAIN

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SECTION 6

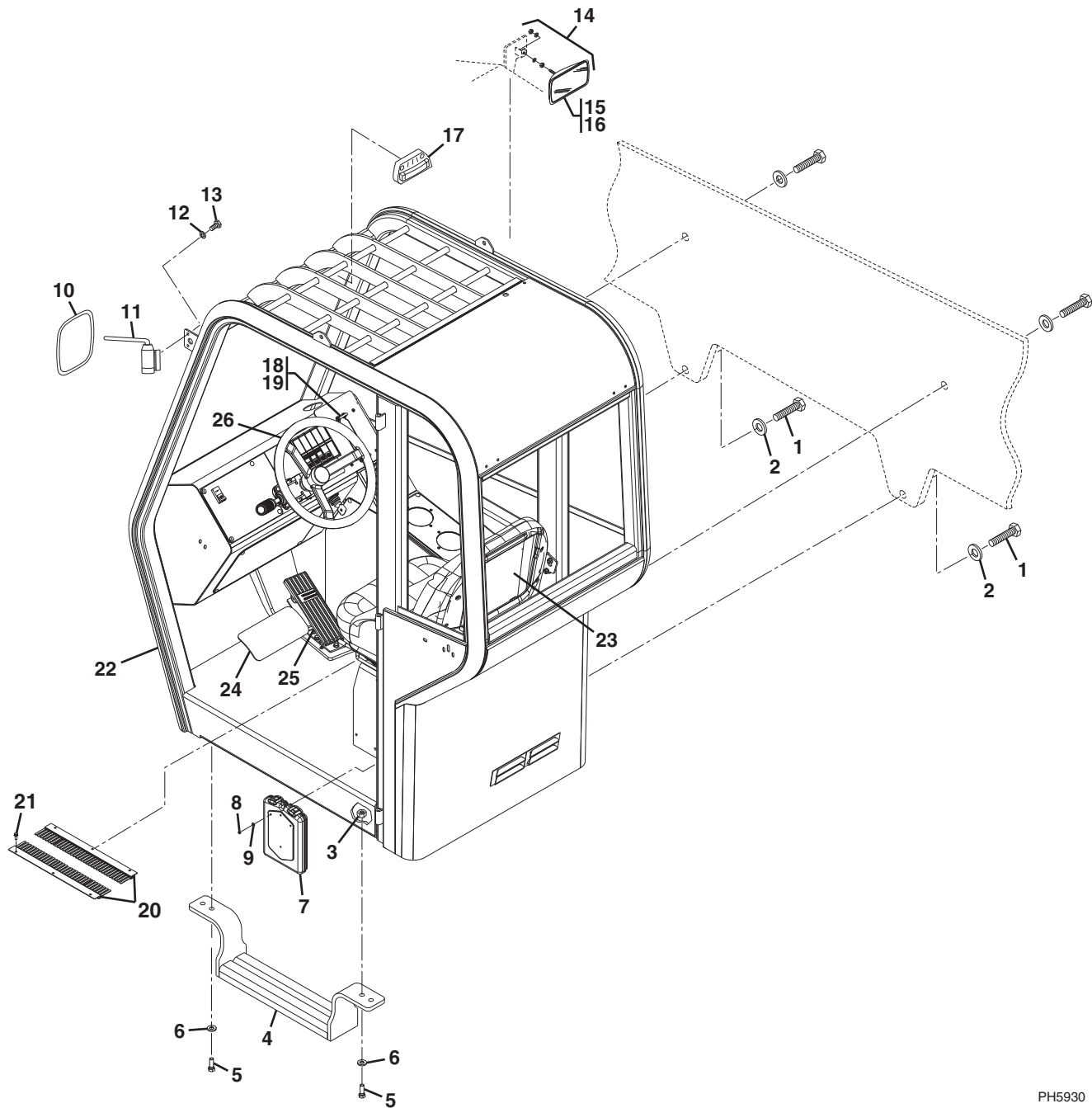
CAB





CAB

Figure 6-1 Cab Installation



PH5930

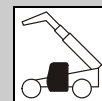


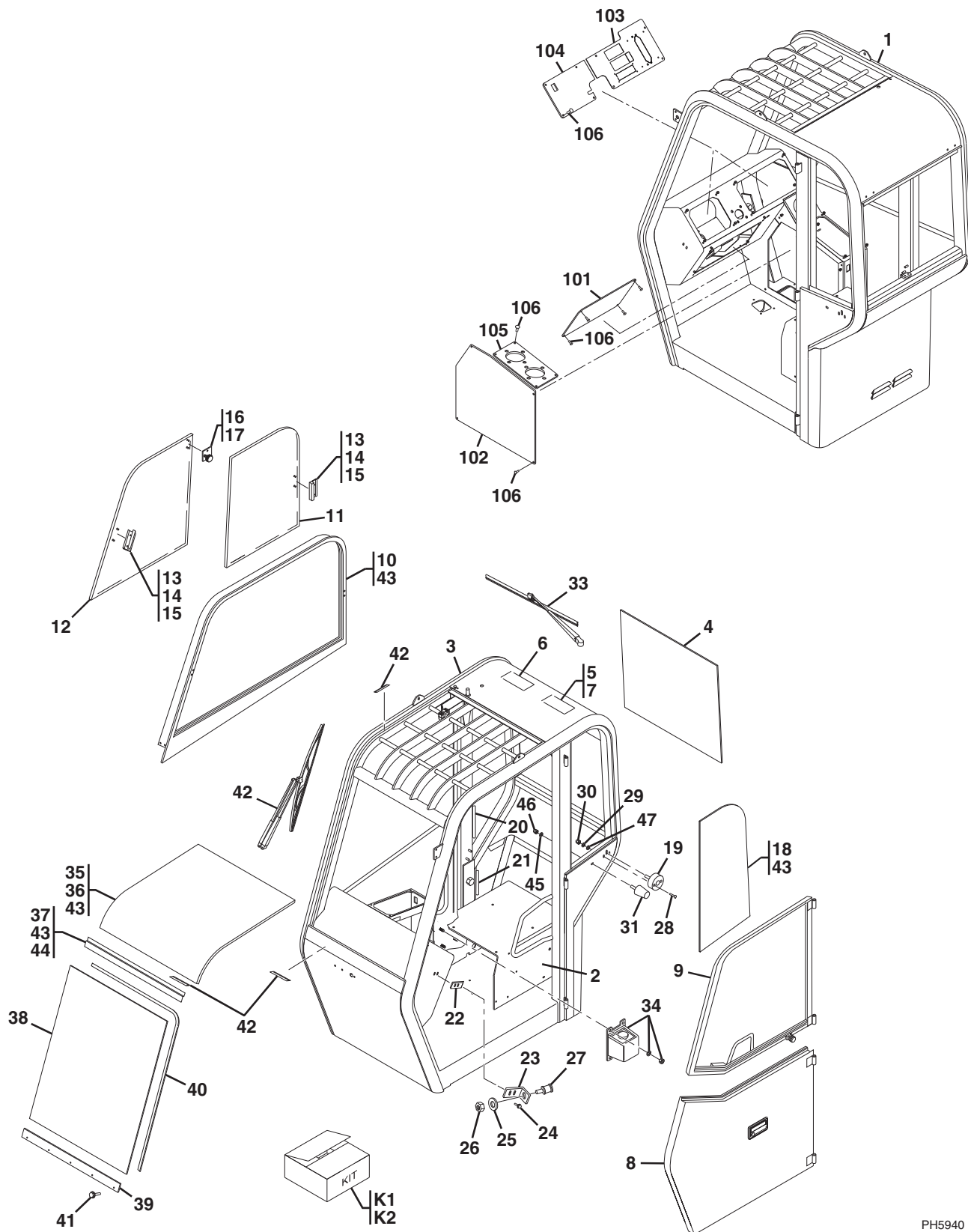
Figure 6-1 Cab Installation

Item	Part Number	Qty.	Description	Rev.
	1001121741	Ref	OPEN CAB INSTALLATION, (not available to order, see items 1 thru 23 for service)	C
	1001121742	Ref	ENCLOSED CAB INSTALLATION, (if equipped for ULS) , (not available to order, see items 1 thru 23 for service)	B
	1001135038	Ref	ENCLOSED CAB INSTALLATION, (if equipped for LS) , (not available to order, see items 1 thru 23 for service)	B
1	8310493	4	HEX HD CAPSCREW, 7/8-9X5-1/2, GR8, (torque to 480 lb-ft/650 Nm)	
2	8307011	4	LOCKWASHER, 7/8	
3	8305644	4	LOCKNUT, 1/2-13	
4	1001141427	1	CAB STEP MOUNT	
5	8303626	4	HEX HD CAPSCREW, 1/2-13X1-1/2	
6	8307112	4	FLAT WASHER, 1/2	
7	8990147	1	MANUAL HOLDER	
8	8310085	3	LOCKNUT, 10-24	
9	8307201	3	FLAT WASHER, 10	
10	3140007	1	REAR VIEW MIRROR	
11	1001114675	1	MIRROR ARM	
12	8307024	2	LOCKWASHER, M6	
13	0700610	2	HEX HD CAPSCREW, M6-1X20mm	
14	8866348	1	RIGHT MIRROR, (includes mounting hardware)	
15	8866351	1	CONVEX GLASS REPLACEMENT LENS, 6-1/2X10	
16	4791500	1	STAR LOCKWASHER, 5/16	
17	8466306	1	TILT ANGLE GAUGE	
18	1001102844	2	U-BOLT, 1/4-20X2-1/2	
19	8310382	8	FLANGE NUT, 1/4-20	
20	7138944	2	BRUSH STRIP ASSY	
21	8303982	6	SELF TAPPING SCREW, 1/4-20X3/4	
22		Ref	CAB ASSY, (see Figure 6-2 for details)	
23		Ref	SEAT ASSY, (see Figure 6-6 for details)	
24		Ref	BRAKE ASSY, (see Figure 7-1 for details)	
25		Ref	THROTTLE ASSY, (see Figure 7-2 for details)	
26		Ref	STEERING COLUMN ASSY, (see Figure 7-3 for details)	



CAB

Figure 6-2 Cab Assembly



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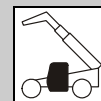


Figure 6-2 Cab Assembly

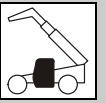
Item	Part Number	Qty.	Description	Rev.
	1001122456	1	ENCLOSED CAB WITH HEATER, (includes all items)	A
1	1001122457	1	OPEN CAB, (includes items 101 thru 106)	B
2		Ref	CAB HEATER ASSY, (see Figure 6-7 for details)	
3	7139050	1	ENCLOSED CAB WITH TOP AND FRONT WIPERS, (less heater), (includes 4 thru 43)	D
4	7028737	1	REAR WINDOW	
5	91404301	1	HAMMER	
6	91404299	1	ESCAPE DECAL	
7	91404298	3	RIVET	
8		Ref	UPPER DOOR ASSY, (see Figure 6-3 for details)	
9		Ref	LOWER DOOR ASSY, (see Figure 6-3 for details)	
10	8036050	1	RIGHT SIDE SLIDER WINDOW, (includes items 11 thru 17)	
11	8036197	1	REAR SLIDE GLASS	
12	8036196	1	FRONT SLIDE GLASS	
13	Use Kit K1	1	CAPSCREW	
14	Use Kit K1	1	SPACER	
15	Use Kit K1	1	LATCH	
16	Use Kit K2	1	LOCK BLOCK	
17	Use Kit K2	1	KNOB ASSY	
18	8036073	1	LEFT SIDE REAR GLASS	
19	8036069	1	FEMALE DOOR RETAINER	
20	8036057	1	UPPER WIRE DUCT	
21	8036058	1	LOWER WIRE DUCT	
22	8036059	1	STRIKER NUT PLATE WELDMENT	
23	8036060	1	STRIKER BOLT BRACKET	
24	8035437	2	LOCKSCREW, 1/4-20X3/4	
25	8036061	1	FLAT WASHER, 17/32X1.06X0.094	
26	8035639	1	CENTER LOCKNUT, 7/16-14	
27	1001109478	1	STRIKER LATCH	
28	8035487	2	SCREW, 1/4-20X5/8	
29	8035416	2	LOCKWASHER, 1/4X.49ODX.07	
30	8035479	2	ACORN NUT, 1/4-20	
31	8036066	1	RUBBER CONE BUMPER	
32		Ref	FRONT WINDSHIELD WIPER ASSY, (see Figure 6-5 for details)	
33		Ref	SKYLIGHT WIPER ASSY, (see Figure 6-5 for details)	
34		Ref	RESERVOIR WITH MOTOR, (see Figure 6-5 for details)	
35	7139444	1	WINDSHIELD SKYLIGHT KIT, (includes items 36 thru 43)	
36	7138958	1	SKYLIGHT GLASS	
37	7139316	1	UPPER WINDSHIELD CLIP	
38	7138951	1	WINDSHIELD GLASS	
39	7139298	1	LOWER WINDSHIELD PLATE	
40	7139299	1	BULB SEAL, 0.22X0.35X14-3/4	
41	8310529	5	SELF TAPPING SCREW, #10-16X3/4	
42	8035490	8	SETTING BLOCKS	
43	8035523	AR	URETHANE SEALANT, (apply to items 10, 18, 36 & 37)	
44	7139301	AR	FOAM	
45	8036067	1	WASHER, 5/16	
46	8036068	1	HEX NUT, 5/16-18	
47	8036071	2	WASHER, 0.28	



CAB

Figure 6-2 Cab Assembly (Continued)

Item	Part Number	Qty.	Description	Rev.
101	7302074	1	LOWER CONSOLE PANEL	
102	7302073	1	RIGHT SIDE CONSOLE ACCESS PANEL	
103	1001129610	1	RIGHT FRONT CONSOLE PANEL	
104	7302076	1	LEFT FRONT CONSOLE PANEL	
105	7302077	1	SIDE CONSOLE PANEL	
106	8303034	20	TRUSS HD TORX SCREW, 1/4-20X3/4	
K1	8036199	1	LATCH ASSY KIT, (includes items 13, 14 & 15)	
K2	8036198	1	FRICTION LOCK ASSY KIT, (includes items 16 & 17)	

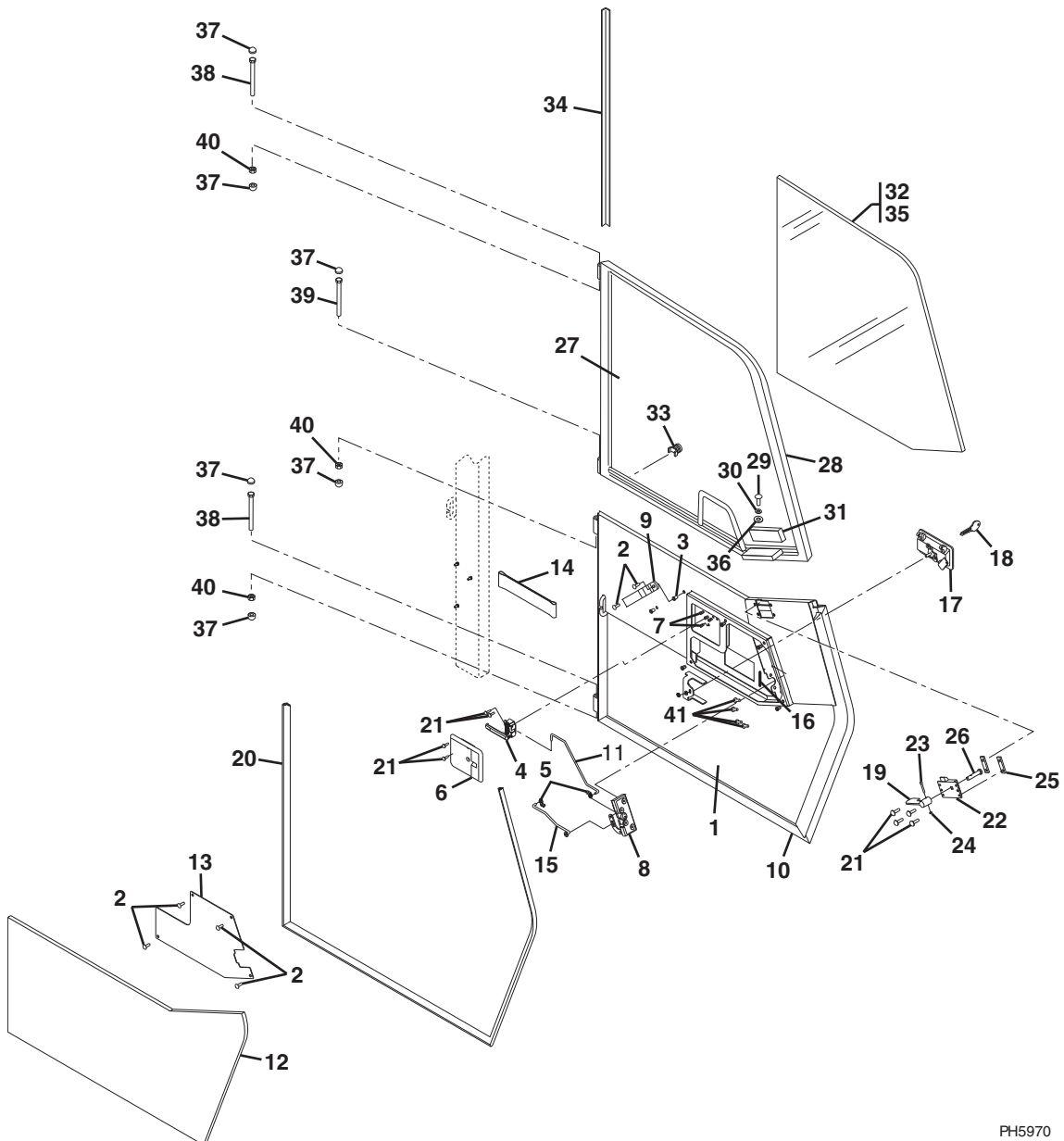
**Figure 6-2 Cab Assembly (Continued)**

Item	Part Number	Qty.	Description	Rev.



CAB

Figure 6-3 Cab Door



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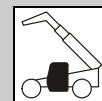


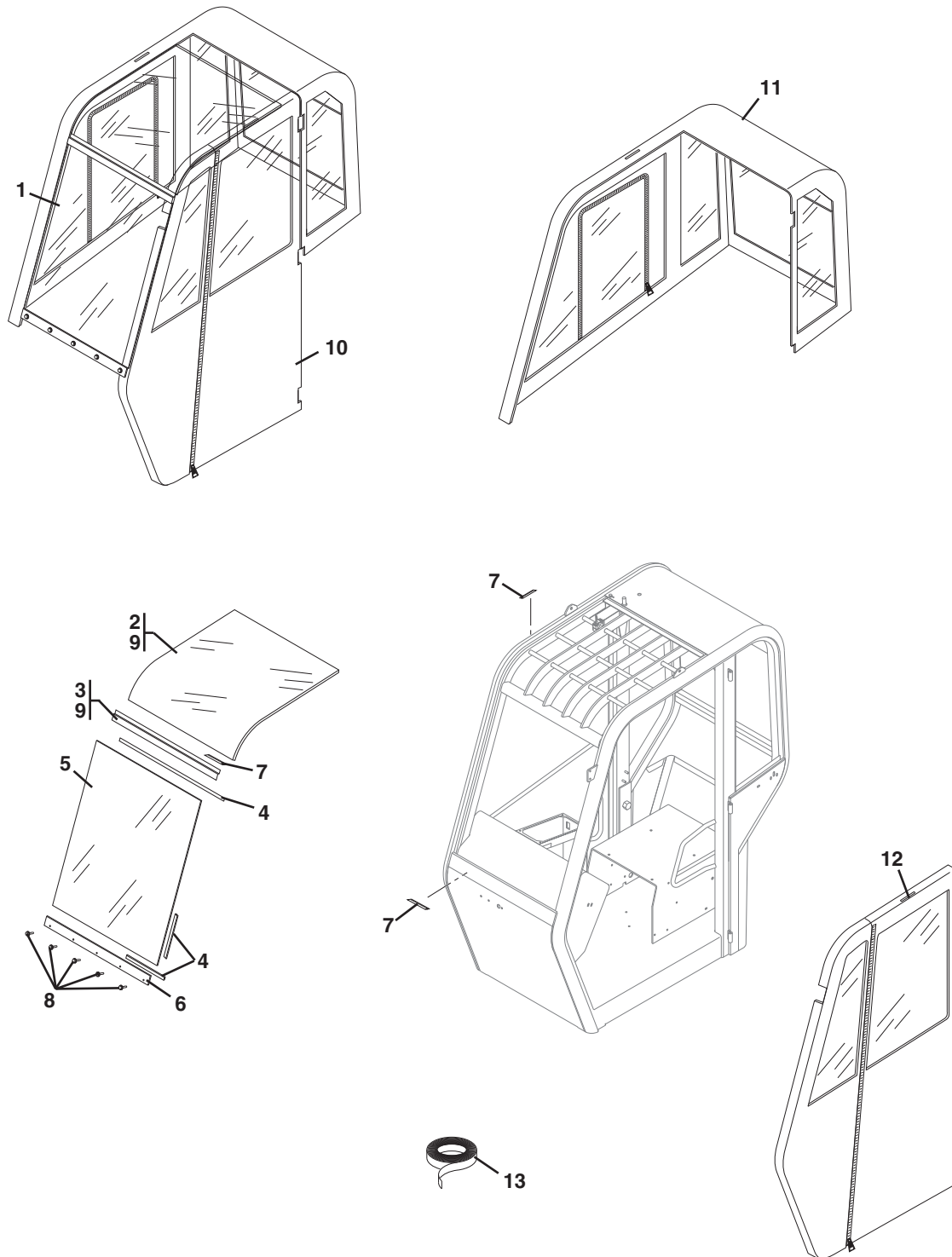
Figure 6-3 Cab Door

Item	Part Number	Qty.	Description	Rev.
1	1001109007	1	LOWER DOOR ASSY, (uses round key), (includes items 2 thru 26 & item 40)	A
2	8033856	6	TORX SCREW, 1/4-20	
3	1001103509	6	HEX RIVNUT, 1/4-20	
4	80384192	1	INNER DOOR HANDLE	
5	80384187	2	ROD END RETAINING CLIP	
6	80384193	1	INSIDE DOOR BEZEL	
7	8036085	4	HEX RIVNUT, #10-24	
8	8035439	1	ROTARY LATCH	
9	91344032	1	INSIDE CAB HANDLE	
10	8036090	1	LOWER DOOR WELDMENT	
11	8036093	1	INTERIOR LATCH LINKAGE	
12	8036094	1	LOWER DOOR FOAM	
13	8036095	1	LATCHBOX ACCESS PLATE	
14	8036096	1	DOOR RESTRAINT STRAP	
15	8036097	1	EXTERIOR LATCH LINKAGE WELDMENT	
16	8036098	1	EXTENSION SPRING, 0.219X1-1/2X0.023	
17	1001105892	1	PADDLE LATCH, (uses rounded key), (includes item 18)	A
18	70021948	1	ROUND KEY	
19	91404315	1	DOOR LEVER RELEASE	
20	8036076	1	BULB SEAL, 15.5mmX10, (cut to fit)	
21	8036088	8	SCREW, #10-24X3/4	
22	91404319	1	SLAM LATCH	
23	91404317	1	SCREW, #8-32X1-1/8	
24	91404318	1	NYLON LOCKNUT, #8-32	
25	8036091	2	SLAM LATCH SPACER	
26	8036092	1	SLAM LATCH SHAFT WELDMENT	
27	1001109406	1	UPPER DOOR ASSY, (includes items 28 thru 36)	A
28	8036077	1	UPPER DOOR WELDMENT	
29	8036105	2	TORX SCREW, 1/4-20	
30	8035416	2	WASHER, 1/4 IDX0.49 OD	
31	8036078	1	SLAM LATCH STRIKER	
32	8036079	1	LEFT SIDE DOOR GLASS	
33	8036080	1	RETAINER	
34	8036076	1	BULB SEAL, 15.5mmX10, (cut to fit)	
35	8035523	AR	URETHANE SEALANT, (apply to item 32)	
36	70020628	2	WASHER	
37	8036065	6	HEX DOME CAP	
38	8035631	2	BOLT, 3/8-16X4-1/2	
39	8036064	1	BOLT, 3/8-16X6-1/2	
40	8035632	3	HEX NUT, 3/8-16	
41	80264074	4	BOLT, 1/4-20X3/4	



CAB

Figure 6-4 Soft Cab Enclosure



PH3270



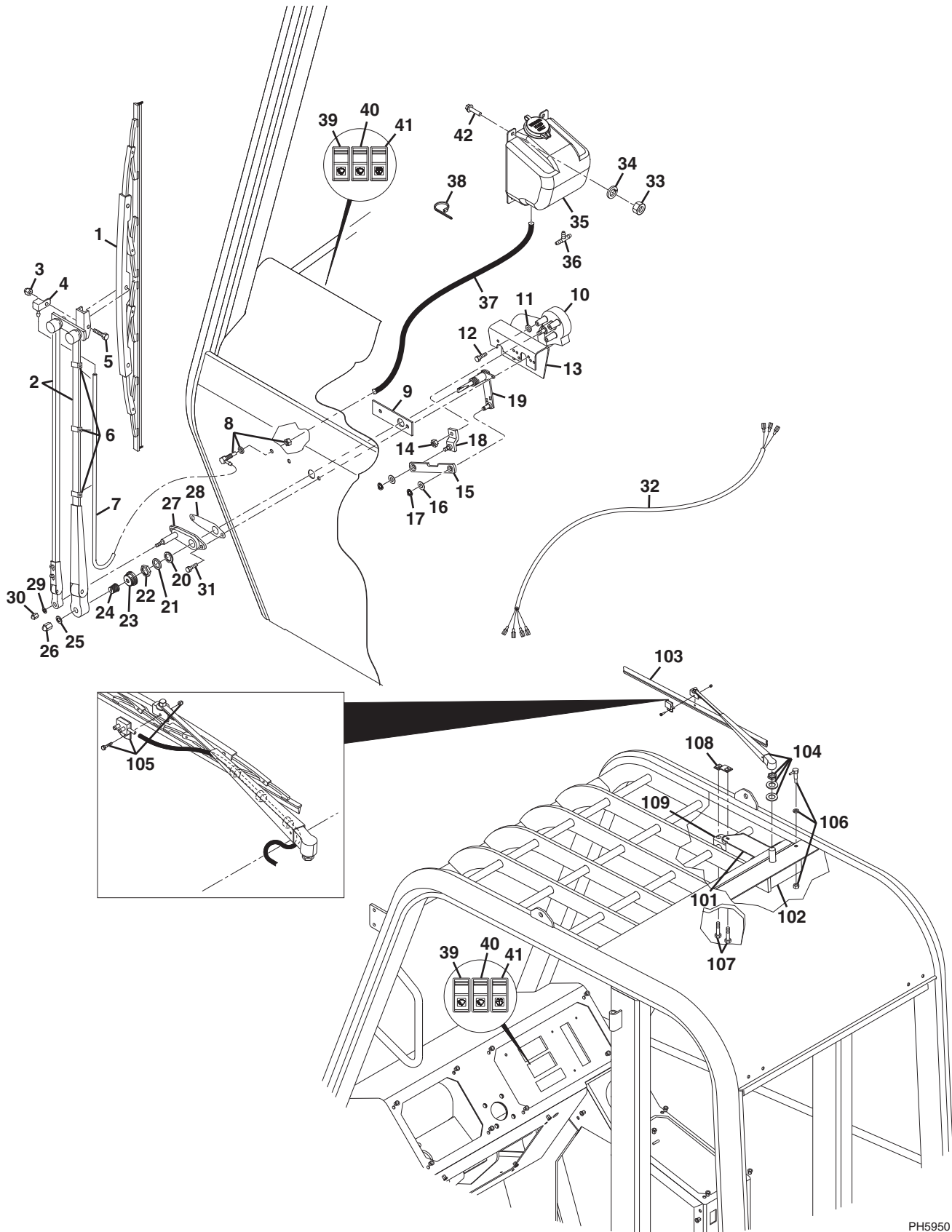
Figure 6-4 Soft Cab Enclosure

Item	Part Number	Qty.	Description	Rev.
	7139250	1	SOFT CAB ENCLOSURE KIT, (includes all items)	AC
1	7139444	1	WINDSHIELD SKYLIGHT KIT, (includes items 2 thru 9)	
2	7138958	1	SKYLIGHT GLASS	
3	7139316	1	UPPER WINDSHIELD CLIP	
4	7139299	1	BLACK BULB SEAL, 0.22X.35X14.75	
5	7138951	1	WINDSHIELD GLASS	
6	7139298	1	LOWER WINDSHIELD PLATE	
7	8035490	8	SETTING BLOCK, 1/8X1/4X2	
8	8310529	5	SELF TAPPING SCREW, #10-16X3/4	
9	8035523	1	URETHANE SEALANT, (apply to items 2 & 3)	
10	7139290	1	SOFT CAB ENCLOSURE KIT, (includes items 11, 12 & 13)	
11	7139293	1	SOFT REAR SECTION	
12	7139292	1	SOFT DOOR SECTION	
13	7139294	1	VELCRO KIT	
	7139295	1	VELCRO BRAND HOOK STRIP 1-1/2X10, ORANGE, (not shown)	
	7139296	3	VELCRO BRAND HOOK STRIP 2X10, ORANGE, (not shown)	



CAB

Figure 6-5 Wipers



PH5950

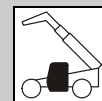


Figure 6-5 Wipers

Item	Part Number	Qty.	Description	Rev.
	8036056	1	FRONT WINDSHIELD WIPER ASSY, (includes items 1 thru 31)	
1	8035392	1	28 IN WIPER FLEX BLADE	
2	8035393	1	24 IN FLEX WIPER ARM ASSY, (includes items 3 thru 7)	
3	NSS	1	LOCKNUT	
4	NSS	1	SPRAYER NOZZLE	
5	NSS	1	BOLT	
6	NSS	3	HOSE CLIPS	
7	NSS	1	HOSE	
8	1001081310	1	WET ARM ADAPTOR	
9	8036100	1	FRONT WIPER MOTOR SPACER	
10	7029860	1	WIPER MOTOR ASSY, (includes items 11 thru 17)	
11	NSS	3	FLAT WASHER, 5/16	
12	NSS	3	HEX HD CAPSCREW, 1/4-28X1	
13	NSS	1	WIPER MOTOR BRACKET	
14	NSS	1	NUT	
15	8035409	1	CONNECTING LINK	
16	NSS	2	FLAT WASHER, 0.560X.251X.015	
17	NSS	2	SPRING CLIP	
18	8035411	1	WIPER ARM DRIVE	
19	8036099	1	WIPER SHAFT & PIVOT ASSY, (includes items 20 thru 26)	
20	NSS	1	RUBBER WASHER	
21	NSS	1	METAL WASHER	
22	NSS	1	HEX JAM NUT, 11/16-18	
23	NSS	1	RUBBER CAP	
24	NSS	1	KNURLED DRIVER	
25	NSS	1	LOCKWASHER, 3/8, (internal tooth)	
26	NSS	1	ACORN NUT, 1/4-28	
27	8034815	1	PANTO ADAPTER ASSY, (includes items 28 thru 30)	
28	NSS	1	GASKET	
29	NSS	1	LOCKWASHER, 1/4, (internal tooth)	
30	NSS	1	ACORN NUT, 1/4-28	
31	80384207	2	HEX HD CAPSCREW, 1/4-28X3/4	
32	8036070	1	WIPER HARNESS	
33	8035479	3	NUT, 1/4-20	
34	8035416	3	LOCKWASHER, 1/4	
35	1001111112	1	RESERVOIR WITH MOTOR	
36	8036072	1	WASHER HOSE CONNECTOR TEE	
37	8033075	1	WASHER HOSE, 120	
38	8584001	AR	TY-RAP	
39		Ref	FRONT WINDSHIELD WIPER SWITCH, (see Figure 10-3 for details)	
40		Ref	SKYLIGHT WINDSHIELD WIPER SWITCH, (see Figure 10-3 for details)	
41		Ref	WINDSHIELD WASHER SWITCH, (see Figure 10-3 for details)	
42	80264045	3	SCREW, 1/4-20X5/8	
	8036049	1	SKYLIGHT WIPER ASSY, (includes items 101 thru 109)	
101	8035492	1	SKYLIGHT WIPER MOTOR	
102	8035493	1	WIPER MOTOR COVER	
103	8035498	1	WIPER BLADE	
104	8035500	1	WIPER ARM	

**CAB****Figure 6-5 Wipers (Continued)**

Item	Part Number	Qty.	Description	Rev.
105	8035499	1	WET KIT	
106	1001081310	1	WET ARM ADAPTER	
107	8036102	2	MACHINE SCREW, #10-24X1-1/2	
108	8035496	1	PLASTIC CLAMP BLOCK	
109	8036103	1	WIPER MOUNT WELDMENT	

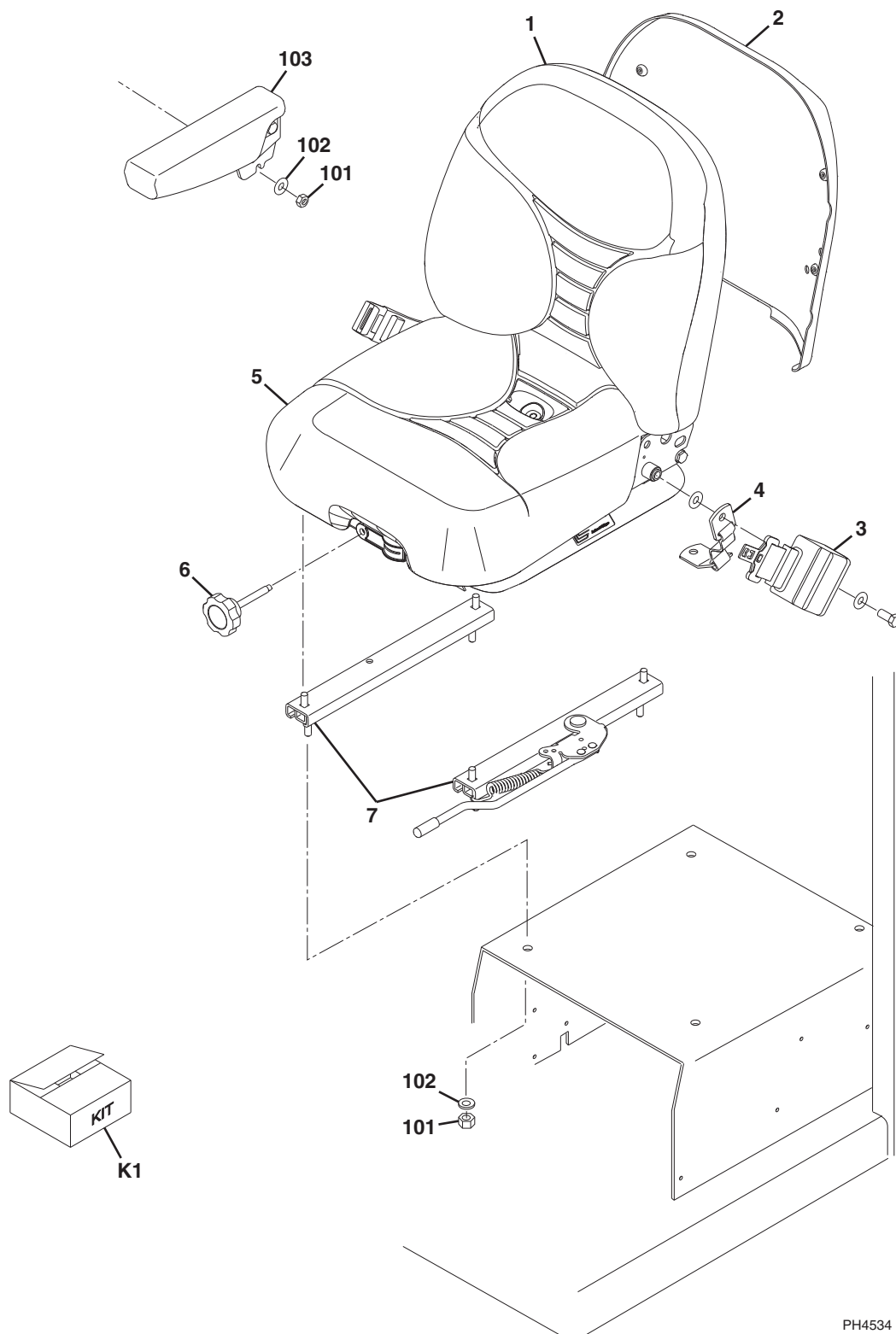
**Figure 6-5 Wipers (Continued)**

Item	Part Number	Qty.	Description	Rev.



CAB

Figure 6-6 Operators Seat



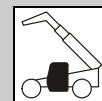


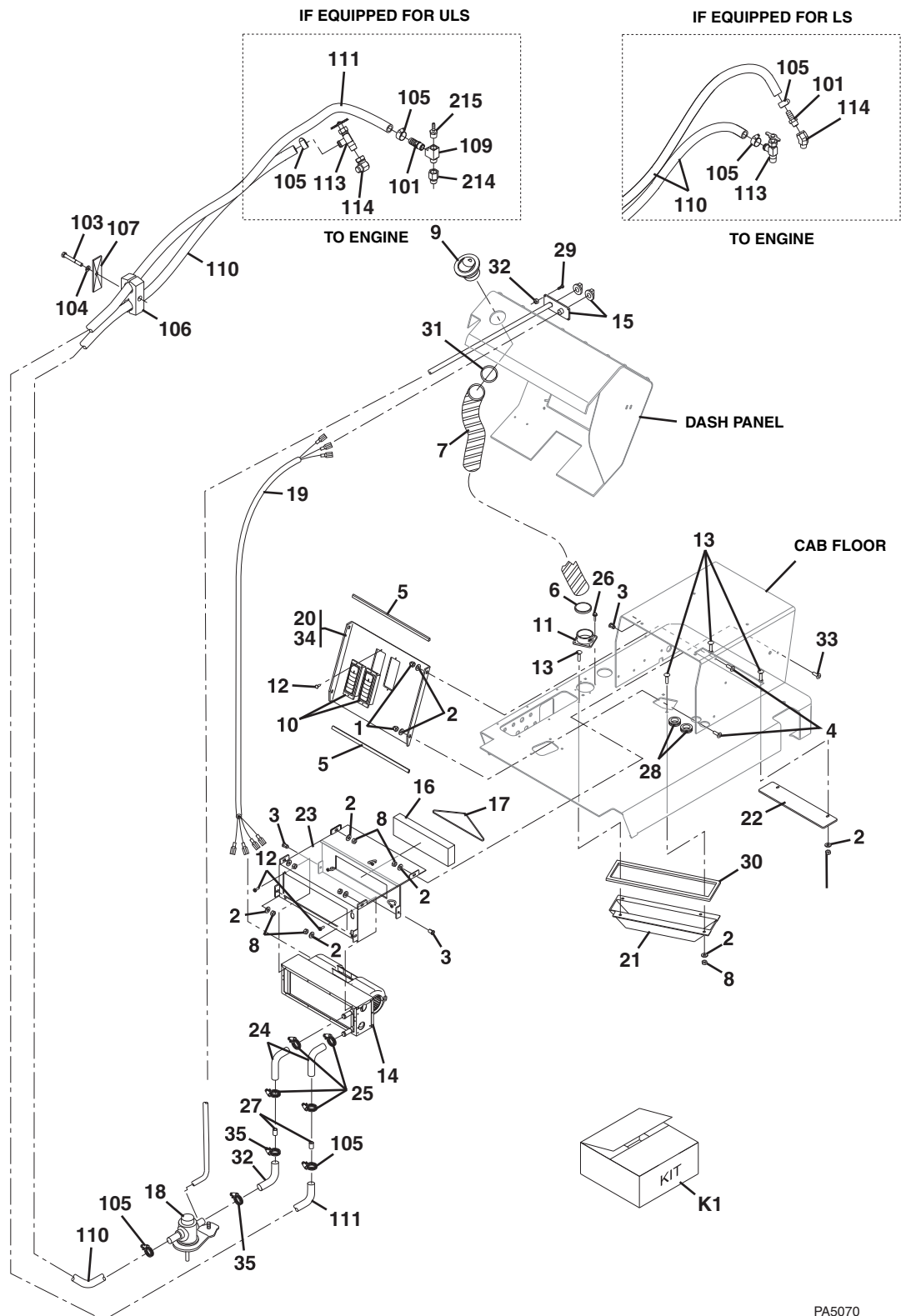
Figure 6-6 Operators Seat

Item	Part Number	Qty.	Description	Rev.
	1001101085	1	SUSPENSION SEAT, (includes items 1 thru 7)	B
1	7026900	1	BACK CUSHION KIT	
2	70023558	1	BACK PANEL KIT	
3	7026905	1	SEAT BELT KIT	
	91565064	1	SEAT BELT, 3IN (California Only), (not included with 1001101085)	
4	7026906	1	TETHER KIT	
5	7026901	1	SEAT CUSHION KIT	
6	7026799	1	KNOB KIT	
7	7026798	1	SLIDE KIT	
8	70023040	1	SHOCK ABSORBER KIT, (not shown), (includes one shock absorber, two shock pins & two hex nuts)	
9	70023041	1	SPRING & SADDLE KIT, (not shown)	
10	70023890	1	BOOT KIT, (not shown)	
101	8305626	6	HEX LOCKNUT, 5/16-18	
102	8307106	6	PLAIN WASHER, 5/16	
103	7138858	1	ARM REST	
K1	70023139	1	SEAT BELT KIT, 3 IN, (includes female & retractor ends)	



CAB

Figure 6-7 Cab Heater



PA5070

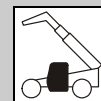


Figure 6-7 Cab Heater

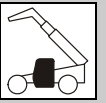
Item	Part Number	Qty.	Description	Rev.
	1001125837	1	CAB HEATER KIT, (includes items 1 thru 34)	1
1	8035479	4	ACORN NUT, 1/4-20	
2	8035416	14	LOCKWASHER, 1/4 IDX.49 OD	
3	1001103509	4	HEX PILOT RIVNUT, 1/4-20X.305	
4	91344043	4	BOLT, 1/4-20X.625	
5	80364020	2	SLOT EDGE TRIM, 2.69	
6	8035406	2	WIDE NYLON TIE	
7	8036110	1	HOSE ASSY	
8	8035417	12	HEX NUT, 1/4-20, GR5	
9	8035402	1	4" ROUND LOUVER, WITH 2-1/2 COLLAR	
10	8035668	2	RECTANGULAR LOUVER, 49mmX121mm	
11	8035431	1	HOSE ADAPTER, 2-1/2	
12	1001081073	8	PAN HEAD SELF TAPPING SCREW, #8-15X1/2	
13	8036112	6	CARRIAGE BOLT, 1/4-20X1	
14	1001125774	1	HEATER	B
15	8036114	1	PANEL/CABLE HEATER CONTROL	
	8036388	2	POSITIONING KNOB, (includes set screw & brass insert)	
16	1001081375	1	AIR FILTER	
17	1001081376	1	RUBBER O-RING	
18	1001081045	1	HEATER WATER VALVE	
19	8036118	1	HEATER WIRE HARNESS	
20	8036119	1	HEATER LOUVER PANEL	
21	8036120	1	HEATER DUCT	
22	8036121	1	FILTER ACCESS PLATE	
23	8036122	1	HEATER MOUNT WELDMENT	
24	8036124	2	RUBBER HOSE, 90 DEGREES	
25	1001081072	4	HOSE CLAMP, 1/2X1-1/4	
26	91404298	4	POP RIVET	
27	1001081046	2	COPPER SPLICE, 5/8 HEATER HOSE	
28	1001081049	2	SPLIT RUBBER GROMMET	
29	8036128	4	SCREW, #6-32X1/2	
30	8035599	1	FOAM, 0.25X.5X1	
31	8405202	1	CLAMP	
32	8036129	4	NYLOCK NUT, #6-32	
33	8033856	8	SCREW, 1/4-20X3/4	
34	7139301	2	FOAM, 1/16X1/2X28	
	1001122289	Ref	CAB HEATER HOSE INSTALLATION, (if equipped for ULS), (not available to order, see items 101 thru 114 for service)	C
	1001100221	Ref	CAB HEATER HOSE INSTALLATION, (if equipped for LS), (not available to order, see items 101 thru 114 for service)	D
101	2180535	1	HOSE BARB FITTING, (if equipped for ULS)	
	2220806	1	HOSE BARB FITTING, (if equipped for LS)	
103	8303757	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5	
104	8307004	1	LOCKWASHER, 5/16	
105	8405007	4	GEAR CLAMP, 1.25 DIA MAX	
106	8750024	1	CLAMP SET	
107	8750025	1	COVER PLATE	
109	86983651	1	STREET TEE, 3/8X3/8, (if equipped for ULS)	



CAB

Figure 6-7 Cab Heater (Continued)

Item	Part Number	Qty.	Description	Rev.
110	1001100225	1	CAB HEATER HOSE, (if equipped for ULS)	
	1001100225	2	CAB HEATER HOSE, (if equipped for LS)	
111	1001122559	1	CAB HEATER HOSE, (if equipped for ULS)	
113	8360005	1	SHUT OFF VALVE	
114	1001133874	1	ELBOW, 90 DEGREES, (if equipped for ULS)	
	1001120819	1	ELBOW, 90 DEGREES, (if equipped for LS)	
214		Ref	STRAIGHT ADAPTER, (see Figure 4-4 for details)	
215		Ref	HOSE BARB COUPLING, (see Figure 4-4 for details)	
K1	7148100	1	FIELD INSTALLATION HEATER KIT, (includes items1 thru 31, 38, 39 & 50 thru 53)	

**Figure 6-7 Cab Heater (Continued)**

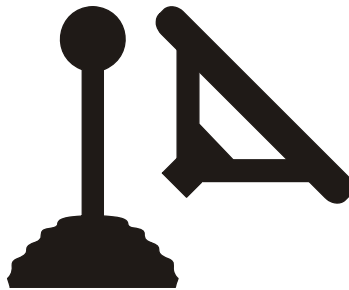
Item	Part Number	Qty.	Description	Rev.



CAB

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SECTION 7 CONTROLS





CONTROLS

Figure 7-1 Brake

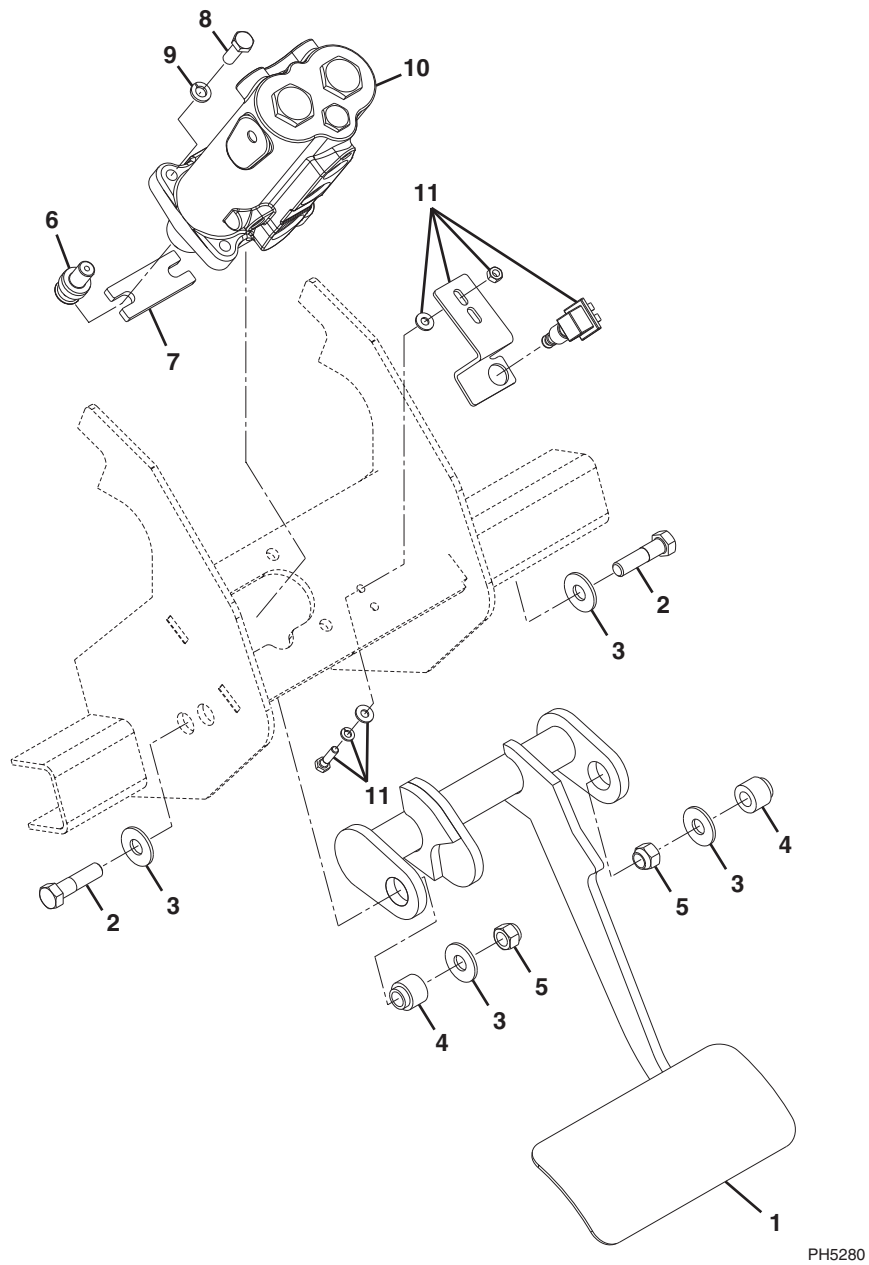




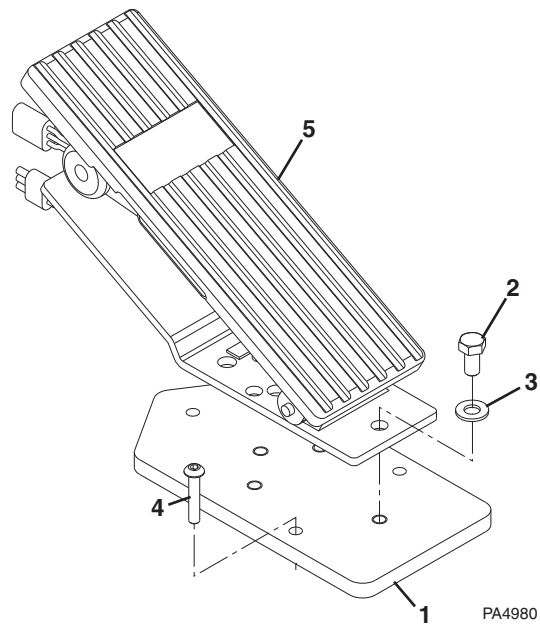
Figure 7-1 Brake

Item	Part Number	Qty.	Description	Rev.
1	1001103113	1	BRAKE PEDAL	
2	8303658	2	HEX HD CAPSCREW, 1/2-13X2, GR5	
3	8307206	4	FLAT WASHER, 1/2	
4	7129521	2	BRAKE PEDAL PIVOT	
5	8305644	2	HEX LOCKNUT, 1/2-13	
6	91513180	2	ACTUATOR	
7	91511145	1	TIE BAR	
8	8303755	4	HEX HD CAPSCREW, M10X30mm, GR8.8	
9	8307023	4	LOCK WASHER, M10	
10		Ref	BRAKE VALVE, (see Figure 9-14 for details)	
11		Ref	BRAKE SWITCH, (see Figure 10-2 for details)	



CONTROLS

Figure 7-2 Accelerator



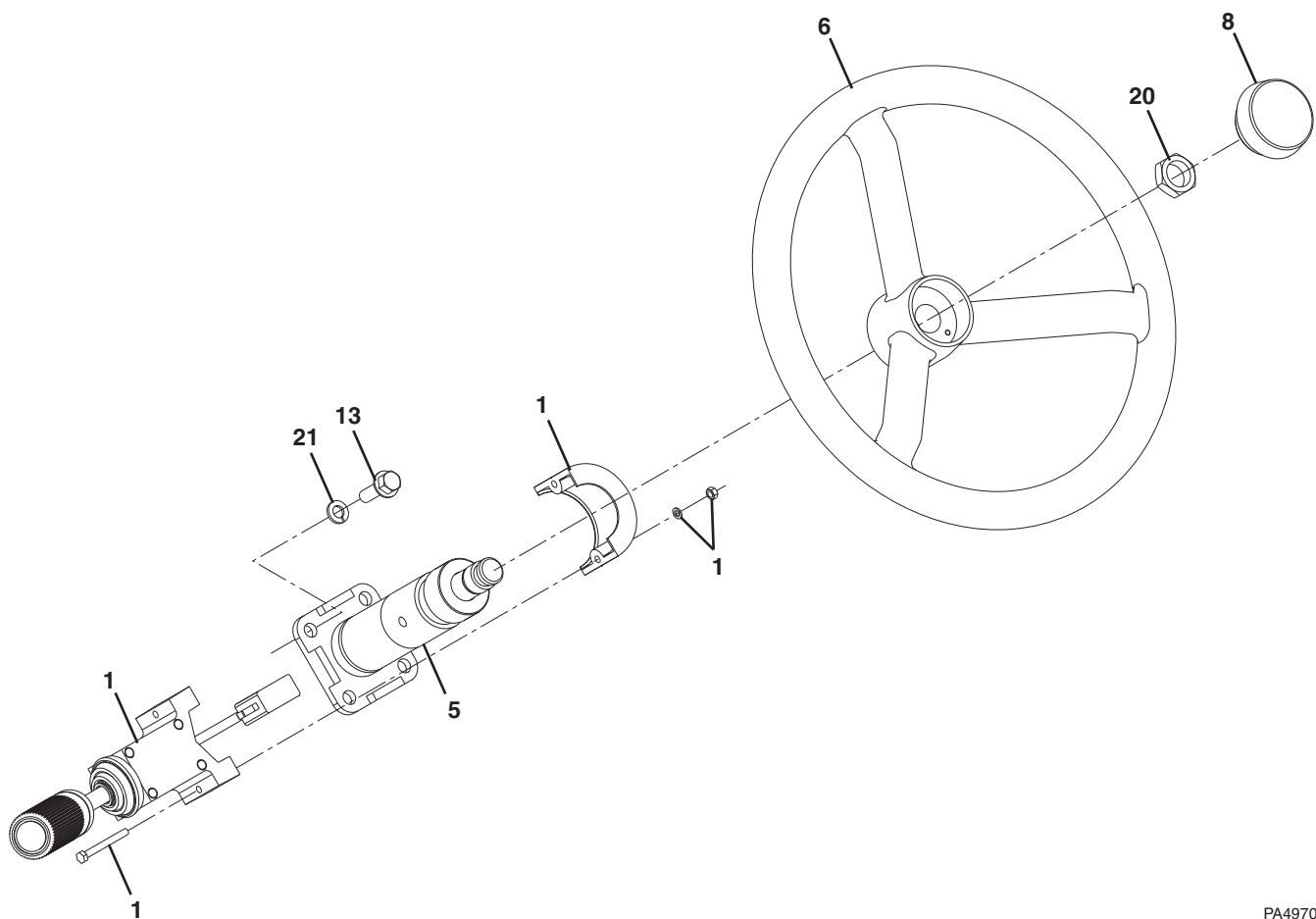
**Figure 7-2 Accelerator**

Item	Part Number	Qty.	Description	Rev.
	1001129813	1	THROTTLE PEDAL ADAPTER ASSY, (includes items 1 thru 5)	A
1	3576442	1	THROTTLE ADAPTER PLATE	
2	8303745	4	HEX HD CAPSCREW, 5/16-18X5/8, GR5	
3	8307106	4	FLAT WASHER, 5/16	
4	8310725	3	BUTTON HD CAPSCREW, 1/4-20X1-1/4	
5	1001129870	1	THROTTLE PEDAL ACCELERATOR	



CONTROLS

Figure 7-3 Steering Column



PA4970

PA2970



Figure 7-3 Steering Column

Item	Part Number	Qty.	Description	Rev.
1	1600429	1	TRANSMISSION RANGE SELECTOR SHIFTER, (torque included mounting hardware to 25 lb-in/2.8 Nm)	
5	7138833	1	STEERING COLUMN	
	7029367	1	HORN BRUSH KIT	
6	7138836	1	STEERING WHEEL	
8	7138878	1	STEERING WHEEL CAP, (with horn button switch)	
13	8303534	4	FLAT HD CAPSCREW, #10-16X1-1/4, (torque to 13 lb-ft/17.6 Nm)	
20	8305916	1	STEERING COLUMN NUT, (torque to 50 lb-ft/67.79 Nm)	
21	8307005	4	LOCKWASHER, 3/8	



CONTROLS

Figure 7-4 Boom Control





Figure 7-4 Boom Control

Item	Part Number	Qty.	Description	Rev.
1	8224045	1	JOYSTICK WITH GATE, (includes items 2 & 3)	AB
2	8580110	1	KNOB	
3	8160419	1	BOOT	
4	8310143	4	TRUSS HD CAPSCREW, 1/4X1	
5	8310144	4	PROP TEE NUT	
6	1001132550	2	CONTROL CABLE	
7	8301443	2	CLEVIS PIN, 3/16X1	
8	8302470	2	HAIR PIN, 3/32	
9		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
10	8630021	2	O-RING	
11	4812300	6	FLAT WASHER, M16	
12	0100011	AR	LOCTITE® 242™, (apply to item 6)	



CONTROLS

Figure 7-5 Frame Level & Attachment Tilt Control



**Figure 7-5 Frame Level & Attachment Tilt Control**

Item	Part Number	Qty.	Description	Rev.
1	8224047	1	JOYSTICK WITH GATE, (includes items 2 & 3)	AB
2	8580110	1	KNOB	
3	8160419	1	BOOT	
4	7098142	2	SPACER	
5	88261017	4	HEX HD CAPSCREW, 1/4-20X7/8	
6	8310001	8	HEX NUT, 1/4-20	
7	8303540	4	HEX HD CAPSCREW, 1/4X1	
8	8307109	4	FLAT WASHER, 1/4	
9	1001132551	2	CONTROL CABLE	
10	8301443	2	CLEVIS PIN, 3/16X1	
11	8302470	2	HAIR PIN, 3/32	
12		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
13	4812300	6	FLAT WASHER, M16	
14	0100011	AR	LOCTITE® 242™, (apply to item 9)	



Figure 7-6 Auxiliary Hydraulic Control

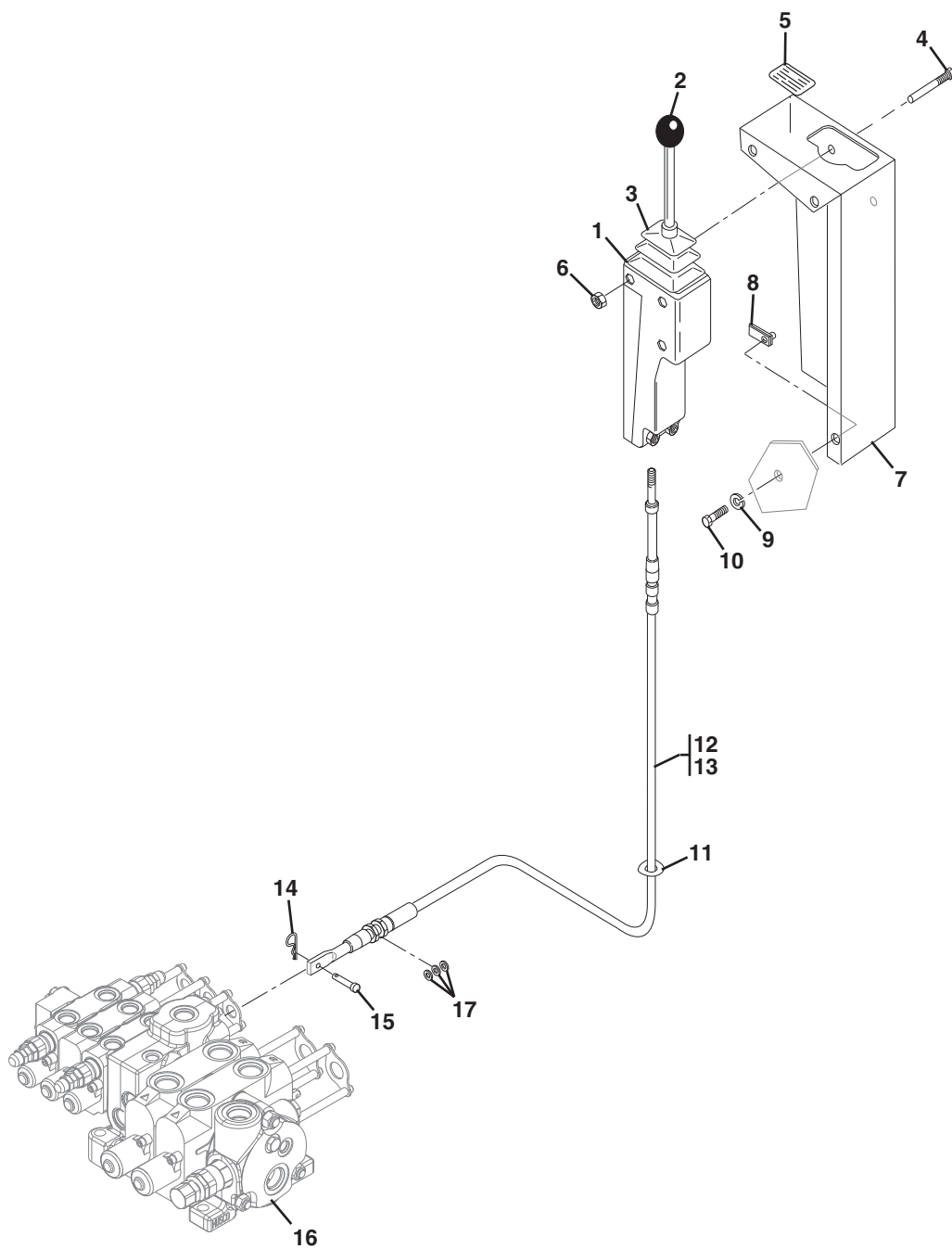




Figure 7-6 Auxiliary Hydraulic Control

Item	Part Number	Qty.	Description	Rev.
1	8160406	1	CONTROLLER, (includes items 2 & 3)	AB
2	8580110	1	KNOB	
3	8160418	1	BOOT	
4	8303758	2	HEX HD CAPSCREW, 1/4-20X2	
5	4105621	1	AUXILIARY CONTROL DECAL	
6	8305004	2	HEX NUT, 1/4-20	
7	7091323	1	CONTROLLER SUPPORT	
8	8305906	3	RETAINING NUT, 5/16-18	
9	8307004	3	LOCKWASHER, 5/16	
10	8303697	3	HEX HD CAPSCREW, 5/16-18X3/4	
11	7125871	AR	CONDUIT, 0.5X8	
12	8024023	1	AUXILIARY HYDRAULICS CONTROL CABLE ASSY, (includes items 13 thru 15)	
13	8160078	1	CONTROL CABLE	
14	8302470	1	HAIR PIN	
15	8301443	1	CLEVIS PIN	
16		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
17	4812300	3	FLAT WASHER, M16	

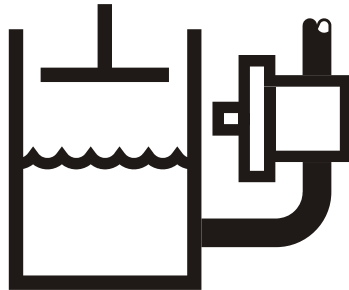


CONTROLS

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SECTION 8

HYDRAULIC CIRCUITS



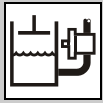
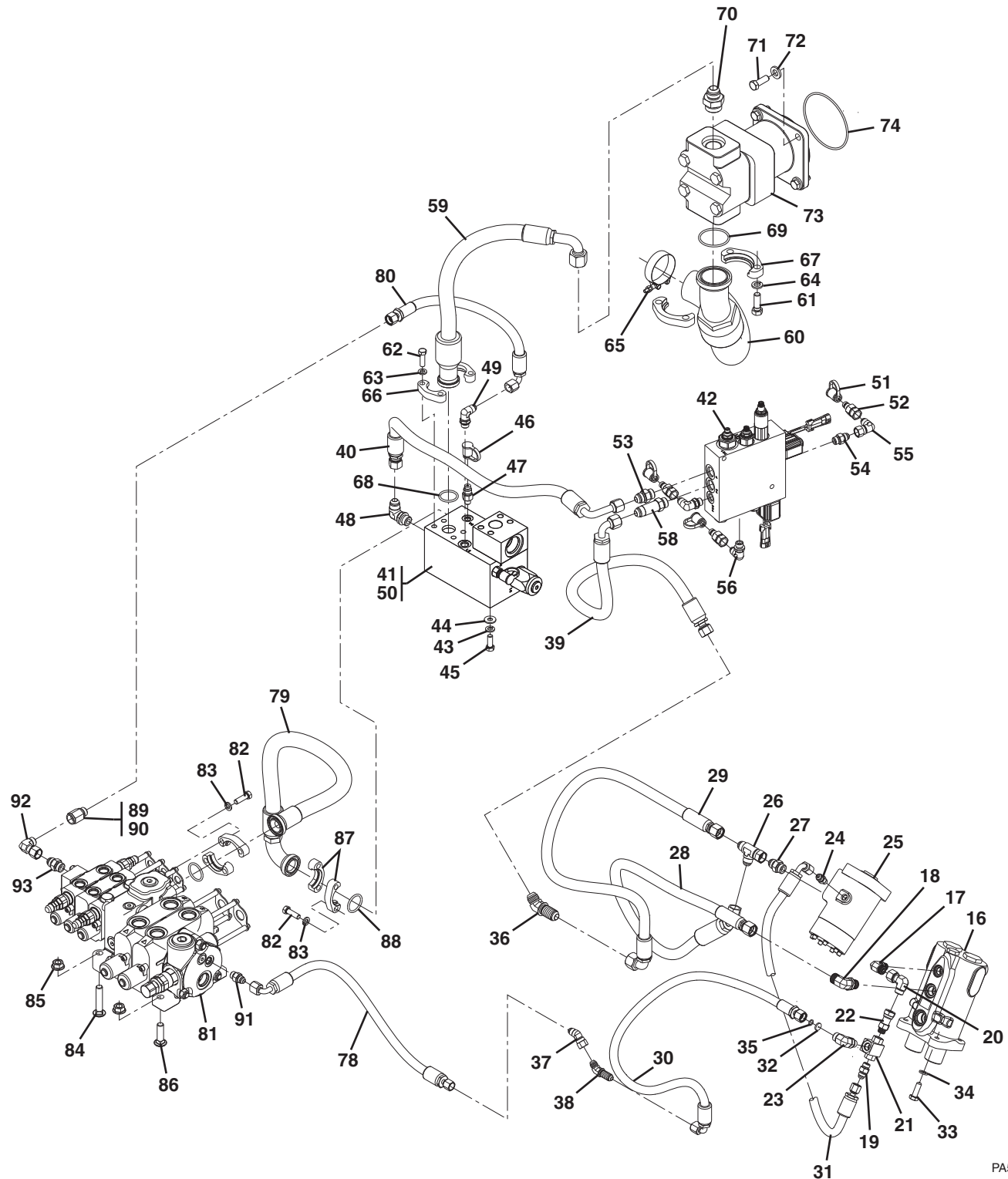


Figure 8-1 Supply Circuit



PA5141

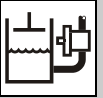
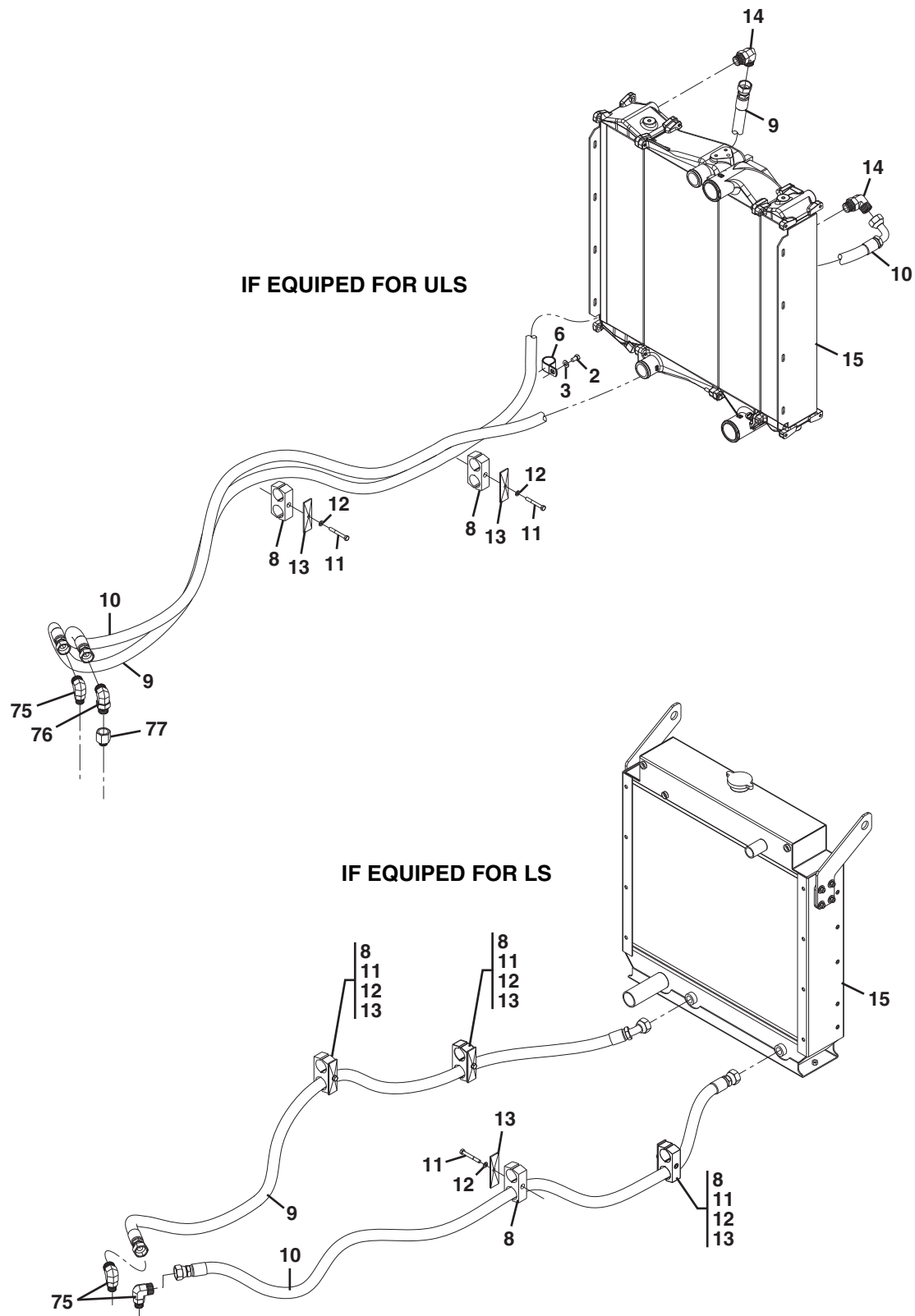


Figure 8-1 Supply Circuit



PA5600



HYDRAULIC CIRCUITS

Figure 8-1 Supply Circuit

Item	Part Number	Qty.	Description	Rev.
	1001125136	Ref	HYDRAULIC TRANSMISSION COOLER PLUMBING INSTALL, (if equipped for ULS) , (not available to order, see items 1 thru 13 for service)	C
	1001131526	Ref	HYDRAULIC TRANSMISSION COOLER PLUMBING INSTALL, (if equipped for LS) , (not available to order, see items 8 thru 13 for service)	A
2	0641605	1	HEX HD CAPSCREW, 3/8-16X5/8, GR5	
3	4711600	1	WASHER, 3/8	
6	8406302	1	HOSE CLAMP	
8	8750040	2	CLAMP SET, (if equipped for ULS)	
	8750040	4	CLAMP SET, (if equipped for LS)	
9	1001126385	1	HOSE ASSY, (if equipped for ULS)	
	1001132545	1	HOSE ASSY, (if equipped for LS)	
10	1001126386	1	HOSE ASSY, (if equipped for ULS)	
	1001132546	1	HOSE ASSY, (if equipped for LS)	
11	8303757	2	HEX HD CAPSCREW, 5/16-18X2-1/5, GR5, (if equipped for ULS)	
	8303757	4	HEX HD CAPSCREW, 5/16-18X2-1/5, GR5, (if equipped for LS)	
12	8307004	2	LOCKWASHER, 5/16, (if equipped for ULS)	
	8307004	4	LOCKWASHER, 5/16, (if equipped for LS)	
13	8750025	2	TWIN COVER PLATE, (if equipped for ULS)	
	8750025	4	TWIN COVER PLATE, (if equipped for LS)	
14		Ref	ADAPTER, 90 DEGREES, (see Figure 4-4 for details)	
15		Ref	RADIATOR, (see Figure 4-4 for details)	
16		Ref	POWER BRAKE VALVE, (see Figure 9-14 for details)	
17	8770109	1	ELBOW, 90 DEGREES, (includes o-ring)	
18	8770120	1	ELBOW, 90 DEGREES, (includes o-ring)	
19	2220371	1	ADAPTER, CONNECTOR	
20	2172106	1	ADAPTER, 90 DEGREES, (includes o-ring)	
21	8902175	1	SHUTTLE VALVE	
22	2221123	1	ADAPTER, CONNECTOR, (includes o-ring)	
23	2130606	1	ADAPTER, 90 DEGREES, (includes o-ring)	
24	2220603	1	ADAPTER, CONNECTOR	
25	8721029	1	STEERING UNIT	
26	2220385	1	ADAPTER, RUN TEE	
27	8760140	1	INLET CHECK VALVE	
28	2716695	1	HOSE ASSY	
29	2716696	1	HOSE ASSY	
30	2716699	1	HOSE ASSY	
31	2716700	1	HOSE ASSY	
32	7139212	1	ORIFICE DISK	
33	8303755	4	HEX HD CAPSCREW, M10X1.5X30, GR8.8	
34	8307023	4	LOCKWASHER, M10	
35	8630003	1	O-RING	
36	8760237	1	ADAPTER, BULKHEAD FITTING, 45 DEGREES	
37	2220657	1	ADAPTER, 45 DEGREES	
38	8770189	1	ADAPTER, BULKHEAD FITTING, 45 DEGREES	
39	2716769	1	HOSE ASSY	
40	2716771	1	HOSE ASSY	
41	7139523	Ref	UNLOADER VALVE ASSY, (not available to order, see items 46 thru 50 for service)	D
42		Ref	SECONDARY FUNCTION MANIFOLD, (see Figure 9-13 for details)	

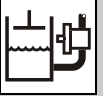
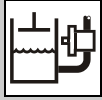


Figure 8-1 Supply Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.
43	8307005	3	LOCKWASHER, 0.375	E
44	8307203	3	WASHER, 0.312	
45	8310525	3	HEX HD CAPSCREW, 3/8-16X10, GR8	
46	8430032	2	DUST CAP	
47	8430033	2	ADAPTER, DIAGNOSTIC CONNECTOR	
48	2220596	1	ADAPTER, 90 DEGREES	
49	2220473	1	ADAPTER, 90 DEGREES	
50		Ref	UNLOADER VALVE, (see Figure 9-13 for details)	
51	8430032	3	DUST CAP	
52	8430046	3	ADAPTER, DIAGNOSTIC FITTING	
53	2220373	1	ADAPTER, STRAIGHT	
54	2220371	1	ADAPTER, STRAIGHT	
55	8760268	1	ADAPTER, 90 DEGREES	
56	2220473	2	ADAPTER, 90 DEGREES	
57	2220238	1	ADAPTER, PLUG	
58	2220381	1	ADAPTER, STRAIGHT, (long)	
	7300914	Ref	HYDRAULIC PUMP ASSY, (not available to order, see items 59 thru 74 for service)	
59	2716780	1	HOSE ASSY	
60	2716808	1	HOSE ASSY	
61	8303626	4	HEX HD CAPSCREW, 0.5-13X1.50, GR5, (torque to 80-90 lb-ft/108.4-122 Nm)	
62	8303675	4	HEX HD CAPSCREW, 3/8-16X1.25, GR5, (torque to 33-37 lb-ft/44.7-50.1 Nm)	
63	8307005	4	LOCKWASHER, 0.375	
64	8307007	4	LOCKWASHER, 0.5	
65	8405208	1	T-BOLT CLAMP	
66	8530030	2	FLANGE HALF	
67	10717672	2	FLANGE HALF	
68	8640123	1	O-RING	
69	8640208	1	O-RING	
70	2220435	1	ADAPTER, CONNECTOR	
71	8303519	4	HEX HD CAPSCREW, M12X1.75X35, GR8.8, (torque to 58-70 lb-ft/78.6-94.9 Nm)	
72	8310356	4	WASHER, 12mm	
73		Ref	GEAR PUMP, (see Figure 9-11 for details)	
74	8630019	1	O-RING	
75	2131210	1	ADAPTER, 90 DEGREES, (includes o-ring), (if equipped for ULS)	
	2131210	2	ADAPTER, 90 DEGREES, (includes o-ring), (if equipped for LS)	
76	2131212	1	ADAPTER, 90 DEGREES, (includes o-ring), (if equipped for ULS)	
77	8760548	1	ADAPTER, CONNECTOR, (if equipped for ULS)	
78	2716762	1	HOSE ASSY	
79	2716783	1	HOSE ASSY	
80	2717033	1	HOSE ASSY	
81		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
82	8303675	8	HEX HD CAPSCREW, 3/8-16X1.25, GR5	
83	8307005	8	LOCKWASHER, 0.375	
84	8310337	1	CARRIAGE BOLT, 1/2-13X2.50	
85	8310523	3	HEX FLANGE NUT, 0.50-13	
86	8310524	2	CARRIAGE BOLT, 1/2-13X1.75	



HYDRAULIC CIRCUITS

Figure 8-1 Supply Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.
87	8530030	4	FLANGE HALF	
88	8640123	2	O-RING	
89	7139993	1	CHECK VALVE	
90	8630003	1	O-RING	
91	2220371	1	ADAPTER, CONNECTOR	
92	2172106	1	ADAPTER, 90 DEGREES, (includes o-ring)	
93	2110606	1	ADAPTER, CONNECOTR, (includes o-ring)	

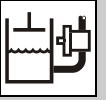
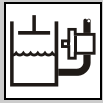


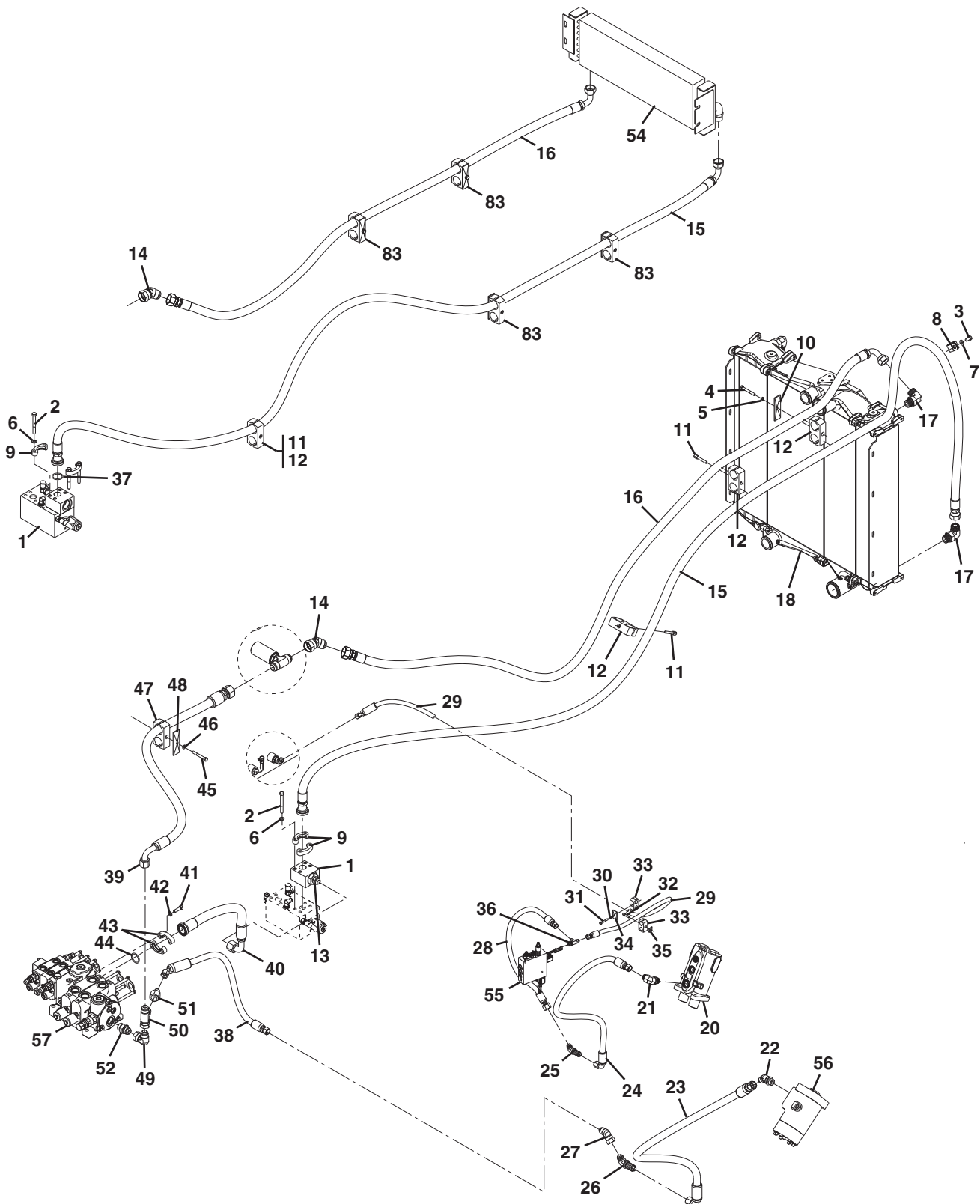
Figure 8-1 Supply Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC CIRCUITS

Figure 8-2 Dump Circuit



PA5130

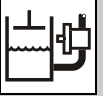


Figure 8-2 Dump Circuit

Item	Part Number	Qty.	Description	Rev.
	1001125135	Ref	HYDRAULIC COOLER PLUMBING INSTALL, (not available to order, see item 1 thru 16 for service)	B
1	7139788	1	MANIFOLD BLOCK	
2	8303107	4	HEX HD CAPSCREW, 3/8-16X3-1/4, GR5	
3	0641605	1	HEX HD CAPSCREW, 3/8-16X5/8, GR5	
4	8303757	1	HEX HD CAPSCREW, 5/16-18X2-1/5, GR5	
5	8307004	1	LOCKWASHER, 5/16	
6	8307005	4	LOCKWASHER, 3/8	
7	4711600	1	WASHER, 3/8	
8	8406302	2	CLAMP	
9	8530030	2	FLANGE	
10	8750025	1	TWIN COVER PLATE	
11	8750026	2	STACKING BOLT, (if equipped for ULS)	
	8750026	1	STACKING BOLT, (if equipped for LS)	
12	8750040	3	TWIN CLAMP SET, (if equipped for ULS)	
	8750040	1	TWIN CLAMP SET, (if equipped for LS)	
13	2220435	1	ADAPTER, STRAIGHT	
14	8760273	1	ADAPTER, 45 DEGREES	
15	1001125275	1	HOSE ASSY, (if equipped for ULS)	
	1001132573	1	HOSE ASSY, (if equipped for LS)	
16	1001125276	1	HOSE ASSY, (if equipped for ULS)	
	1001132572	1	HOSE ASSY, (if equipped for LS)	
17		Ref	ADAPTER, 90 DEGREES, (see Figure 4-4 for details)	
18		Ref	RADIATOR, (see Figure 4-4 for details)	
19		Ref	FUEL/HYDRAULIC TANK ASSY, (see Figure 9-12 for details)	
20		Ref	POWER BRAKE VALVE, (see Figure 9-14 for details)	
21	8770175	1	ADAPTER, 90 DEGREES, (includes o-ring)	
22	2220500	1	ADAPTER, 45 DEGREES	
23	2716696	1	HOSE ASSY	
24	2754736	1	HOSE ASSY	
25	2230035	1	ADAPTER, 45 DEGREES	
26	8760237	1	ADAPTER, BULKHEAD FITTING, 45 DEGREES	
27	2220683	1	ADAPTER, 45 DEGREES	
28	2754737	1	HOSE ASSY	
29	2716774	1	HOSE ASSY	
30	8307004	1	LOCKWASHER, 0.312	
31	8310009	1	HEX HD CAPSCREW, 0.312-18X2, GR5	
32	8750012	1	STACKING BOLT	
33	8750027	2	TWIN CLAMP SET	
34	8769128	1	TWIN COVER PLATE	
35	8750017	1	CLAMP LOCKING PLATE	
36	2220602	1	ADAPTER, RUN TEE	
37	8640123	1	O-RING, (if equipped for LS)	
38	2716772	1	HOSE ASSY	
39	2716783	1	HOSE ASSY	
40	2716807	1	HOSE ASSY	
41	8303675	4	HEX HD CAPSCREW, 3/8-16X1.25, GR5	
42	8307005	4	LOCKWASHER, 0.375	
43	8530030	2	FLANGE HALF	



HYDRAULIC CIRCUITS

Figure 8-2 Dump Circuit

Item	Part Number	Qty.	Description	Rev.
44	8640123	1	O-RING	
45	8303757	1	HEX HD CAPSCREW, 0.312-18X2.50, GR5	
46	8307004	1	LOCKWASHER, 5/16	
47	8750040	1	CLAMP SET	
48	8750025	1	TWIN COVER PLATE	
49	2220655	2	ADAPTER, 90 DEGREES	
50	2220700	1	ADAPTER, RUN TEE	
51	2220622	1	ADAPTER, CONNECTOR	
52	8770173	1	CHECK VALVE	
53		Ref	HOSE CLAMP SET, (see Figure 8-1 for details)	
54		Ref	HYDRAULIC OIL COOLER, (see Figure 4-4 for details)	
55		Ref	SECONDARY FUNCTION MANIFOLD, (see Figure 9-13 for details)	
56		Ref	STEERING UNIT, (see Figure 8-1 for details)	
57		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	

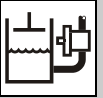
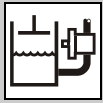


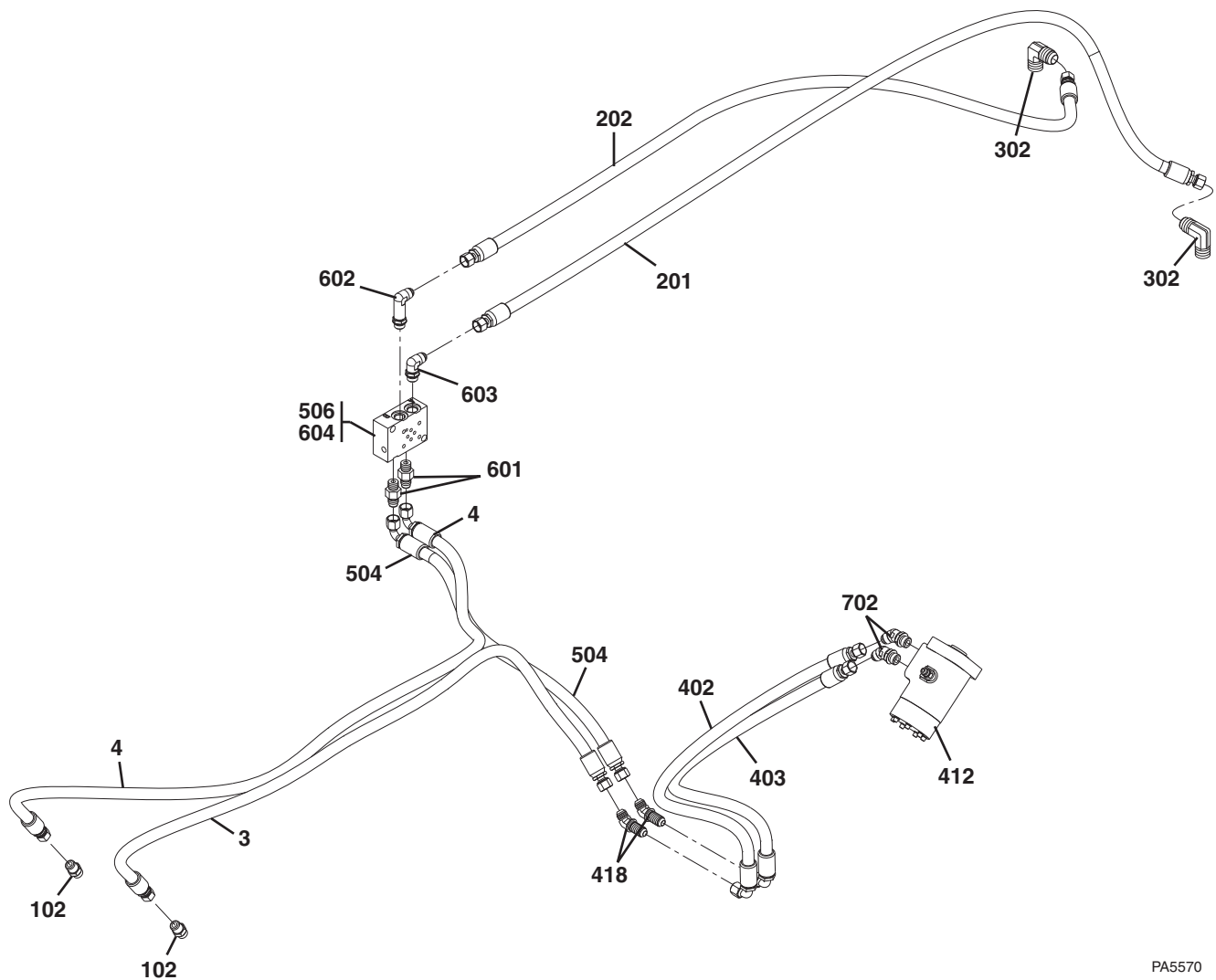
Figure 8-2 Dump Circuit

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC CIRCUITS

Figure 8-3 Steer Select Circuit



PA5570

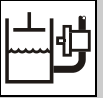


Figure 8-3 Steer Select Circuit

Item	Part Number	Qty.	Description	Rev.
3	2716775	1	HOSE ASSY	C
4	2716776	1	HOSE ASSY	
102	2220373	2	ADAPTER, CONNECTOR	
201	2716673	1	HOSE ASSY	
202	2716673	1	HOSE ASSY	
302	2220596	2	ADAPTER, 90 DEGREE ELBOW	
402	3716696	1	HOSE ASSY	
403	2716696	1	HOSE ASSY	
412		Ref	STEERING UNIT, (see Figure 8-1 for details)	
418	8760237	2	ADAPTER, BULKHEAD, 45 DEGREE	
504	2716773	1	HOSE ASSY	
506	7138942	1	STEER SELECT MANIFOLD ASSY, (includes items 601 thru 604)	
601	2220373	2	ADAPTER, CONNECTOR	
602	2220474	1	ADAPTER, 90 DEGREES, (long)	
603	2220596	1	ADAPTER, 90 DEGREES	
604		Ref	STEER SELECT VALVE, (see Figure 9-13 for details)	
702	2220500	2	ADAPTER, 45 DEGREES	

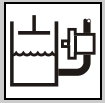
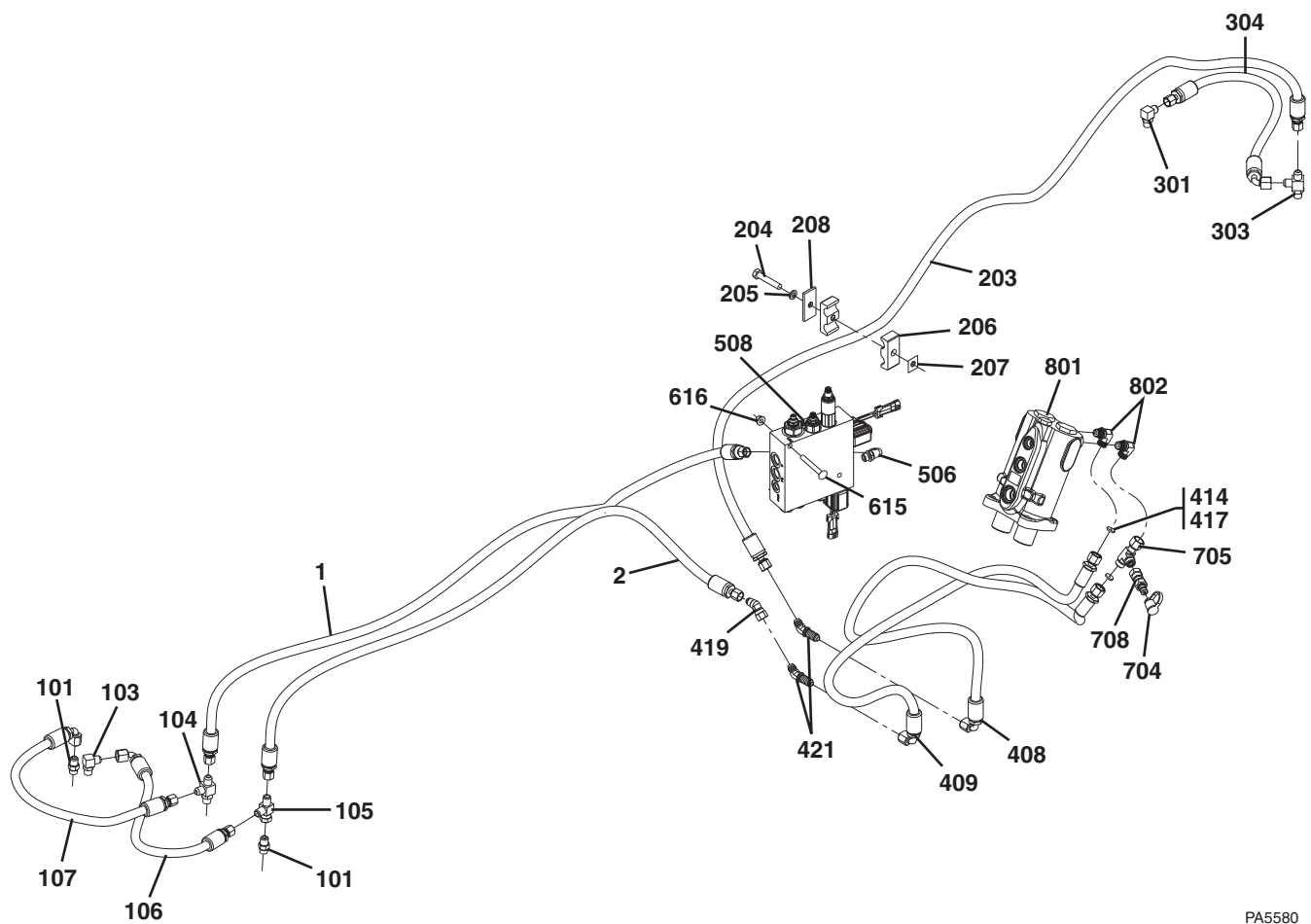


Figure 8-4 Service Brake Circuit



PA5580



Figure 8-4 Service Brake Circuit

Item	Part Number	Qty.	Description	Rev.
1	2716763	1	HOSE ASSY	
2	2716763	1	HOSE ASSY	
101	2220371	2	CONNECTOR	
103	2220473	1	ELBOW, 90 DEGREES	
104	2220606	1	RUN TEE	
105	2220635	1	RUN TEE	
106	2716670	1	HOSE ASSY	
107	2716670	1	HOSE ASSY	
203	2716766	1	HOSE ASSY	
204	8303264	1	HEX HD CAPSCREW, 0.438-14X1.50, GR8	
205	8307004	1	LOCKWASHER, 0.312	
206	8750015	1	CLAMP SE	
207	8750017	1	LOCKING PLATE	
208	8769123	1	TWIN PLATE COVER	
301	2220473	1	ELBOW, 90 DEGREES	
303	2220606	1	RUN TEE	
304	2716670	1	HOSE ASSY	
408	2716699	1	HOSE ASSY	
409	2716699	1	HOSE ASSY	
414	7139212	2	ORIFICE DISK	
417	8630003	2	O-RING	
419	2220657	1	ELBOW, 45 DEGREES	
421	8770189	2	BULKHEAD FITTING, 45 DEGREES	
506	2220473	1	ELBOW, 90 DEGREES	
508		Ref	SECONDARY FUNCTION MANIFOLD, (see Figure 9-13 for details)	
615	8310393	2	CARRIAGE BOLT, 5/16-18X2.75, GR2, (torque to 18.5-21 lb-ft/25.0-28.4Nm)	
616	8310420	2	FLANGE-NUT, 0.312-18	
704	8430032	1	DUST CAP	
705	217706	1	RUN TEE	
708	8430081	1	DIAGNOSTIC FITTING	
801		Ref	POWER BRAKE VALVE, (see Figure 9-14 for details)	
802	8770109	2	ELBOW, 90 DEGREES	

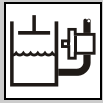
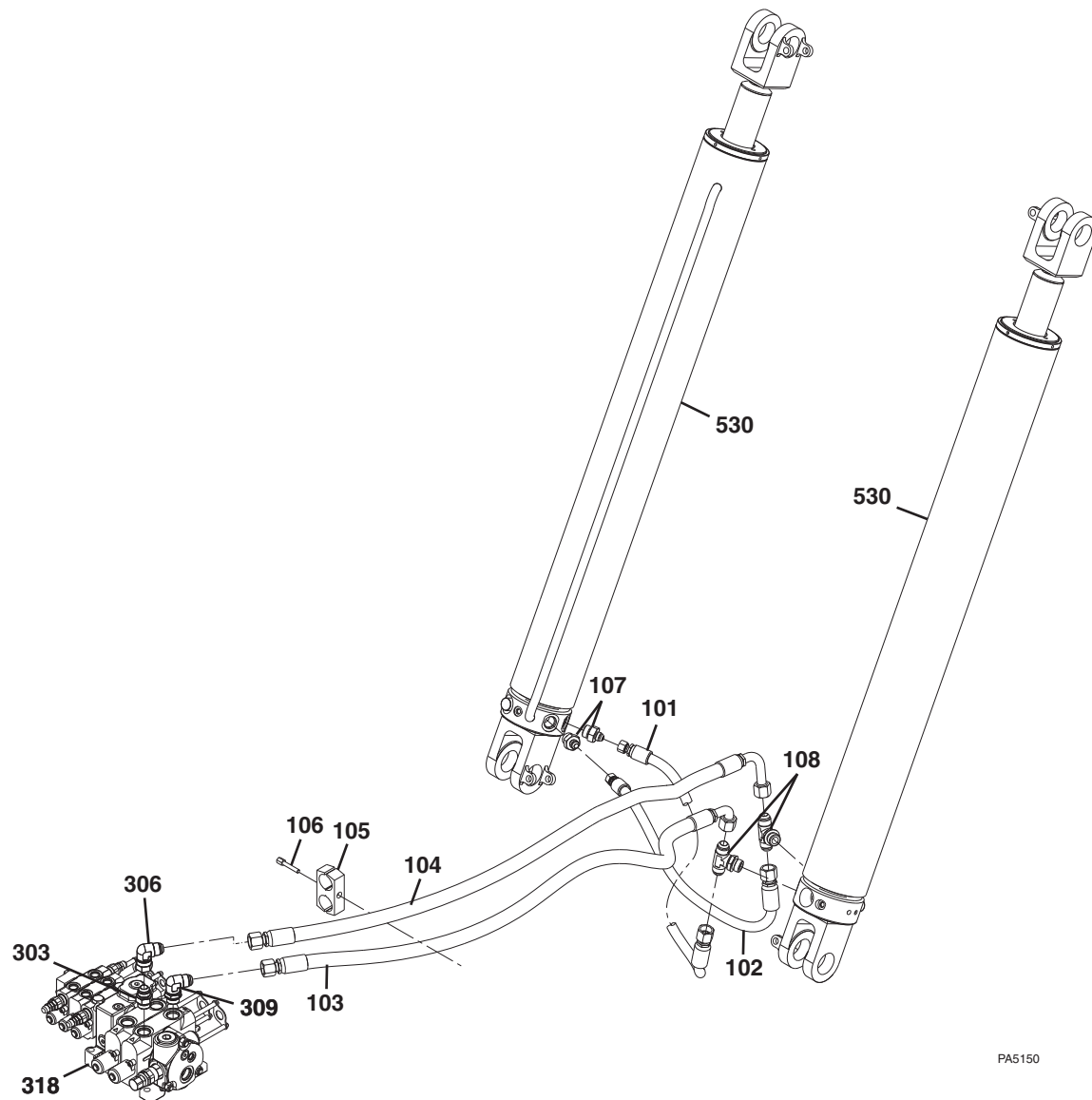


Figure 8-5 Lift Cylinder Circuit



PA5150

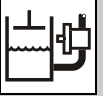


Figure 8-5 Lift Cylinder Circuit

Item	Part Number	Qty.	Description	Rev.
	7300928	Ref	HOIST PLUMBING ASSY INSTALLATION, (not available to order, see items 1 thru 8 for service)	E
1	2716675	1	HOSE ASSY	
2	2716675	1	HOSE ASSY	
3	2716784	1	HOSE ASSY	
4	2716785	1	HOSE ASSY	
5	8750040	1	TWIN CLAMP SET, 1.18 DIA	
6	8750026	1	STACKING BOLT, (torque to 11.6-21 lb-ft)	
7	2220375	2	ADAPTER, STRAIGHT	
8	2220695	2	ADAPTER, RUN TEE	
103	2220451	1	STRAIGHT CONNECTOR	
106	2220655	1	ELBOW, 90 DEGREES, (swivel nut)	
109	2220578	1	ELBOW, 90 DEGREES	
118		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
230		Ref	LIFT CYLINDER, (see Figure 9-1 for details)	

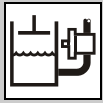
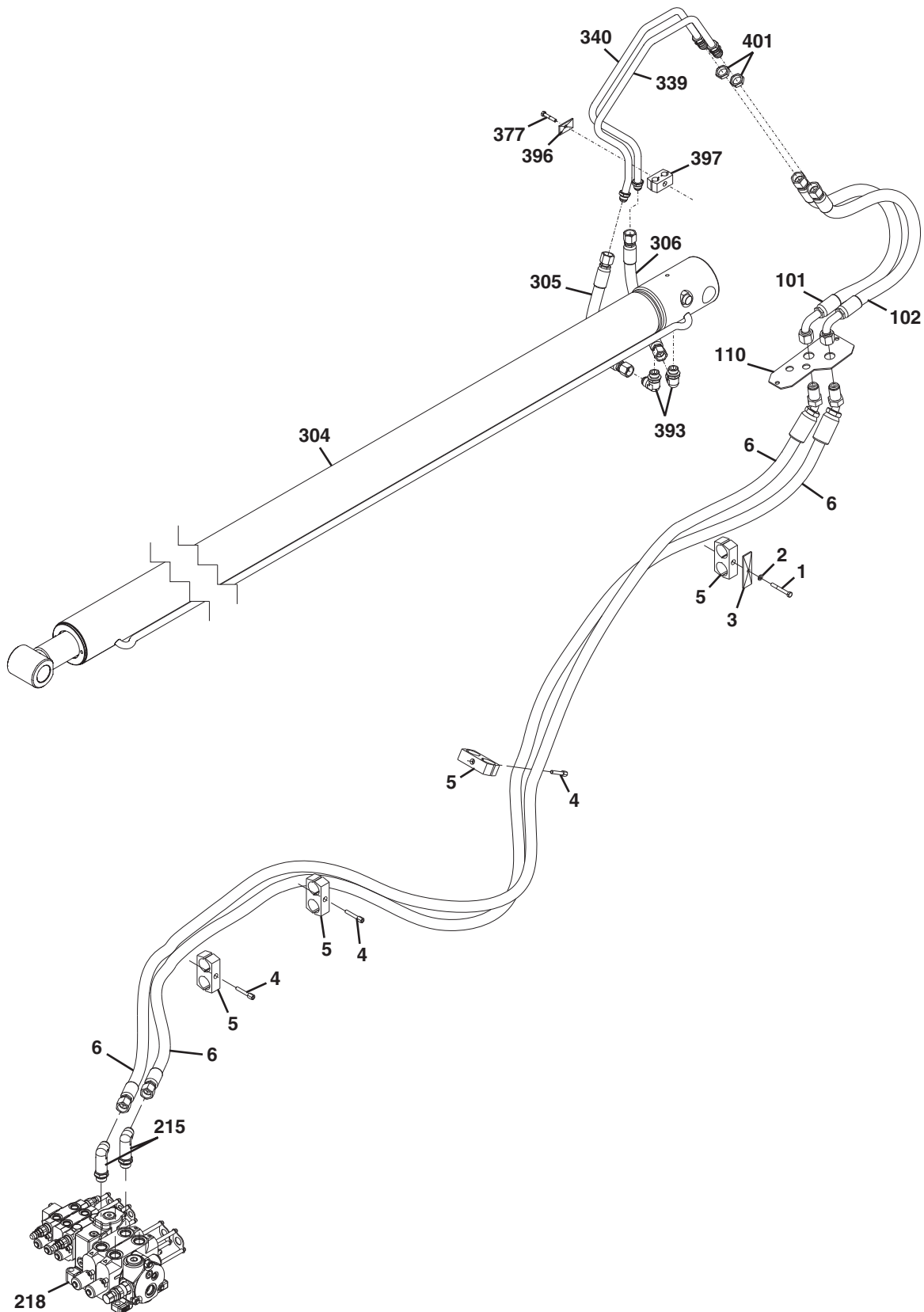


Figure 8-6 Extend/Retract Cylinder Circuit



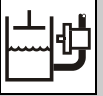


Figure 8-6 Extend/Retract Cylinder Circuit

Item	Part Number	Qty.	Description	Rev.
	1001126178	Ref	HYDRAULIC EXTEND PLUMBING INSTALL, (not available to order, see items 1 thru 6 for service)	A
1	8303757	1	HEX HD CAPSCREW, 0.312-18X2.500, GR5	
2	8307004	1	LOCKWASHER, 5/16	
3	8750025	1	TWIN COVER PLATE	
4	8750026	3	STACKING BOLT	
5	8750040	4	TWIN CLAMP SET	
6	1001114202	2	HOSE ASSY	
101	2755060	1	HOSE ASSY	
102	2755060	1	HOSE ASSY	
110		Ref	BULKHEAD SHEET, RH, (see Figure 8-7 for details)	
215	8770157	2	ELBOW, 90 DEGREES	
218		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
304		Ref	EXTEND/RETRACT CYLINDER, (see Figure 9-2 for details)	
305	2716760	1	HOSE ASSY, (6036)	
	2717018	1	HOSE ASSY, (6042)	
306	2716760	1	HOSE ASSY, (6036)	
	2717018	1	HOSE ASSY, (6042)	
339	7300670	1	TUBE ASSY, (6036)	
	7139730	1	TUBE ASSY, (6042)	
340	7139731	1	TUBE ASSY, (6036)	
	7300671	1	TUBE ASSY, (6042)	
377	8303746	1	HEX HD CAPSCREW, 5/16-18X1-3/4	
393	2220567	2	ADAPTER, 90 DEGREES, (6036)	
	2220578	2	ADAPTER, 90 DEGREES, (6042)	
396	8769128	1	TWIN COVER PLATE	
397	8769139	1	CLAMP SET, 0.750 DIA. TWIN	
401	8760468	2	ADAPTER, BULKHEAD NUT	

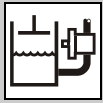
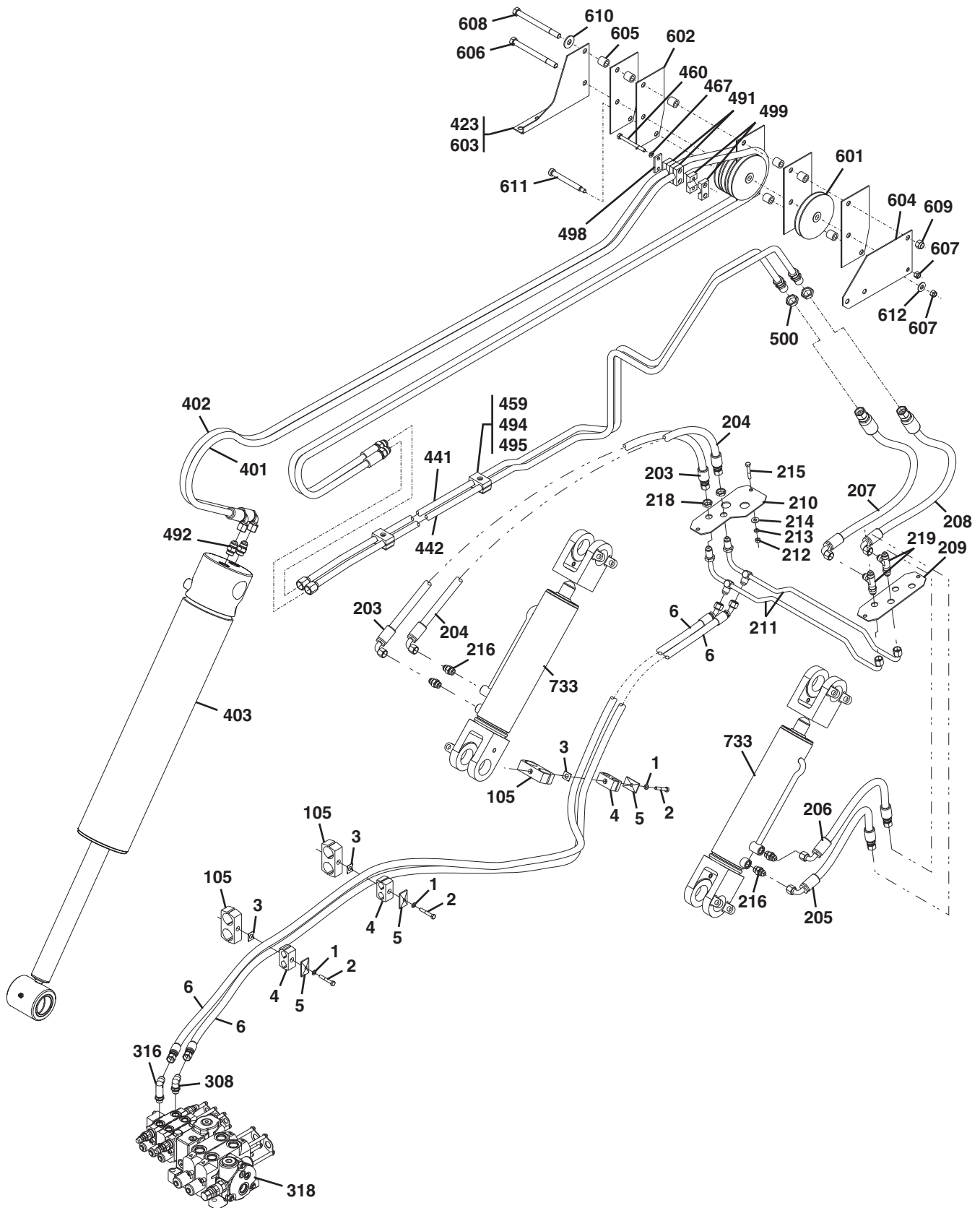


Figure 8-7 Tilt & Tilt Compensating Cylinder Circuit



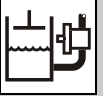


Figure 8-7 Tilt & Tilt Compensating Cylinder Circuit

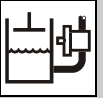
Item	Part Number	Qty.	Description	Rev.
	1001126030	Ref	HYDRAULIC FORK PLUMBING INSTALL, (not available to order, see items 1 thru 6 for service)	B
1	8307004	3	LOCKWASHER, 5/16	
2	8310009	3	HEX HD CAPSCREW, 5/16-18X2, GR5	
3	8750017	3	TWIN CLAMP LOCKING PLATE	
4	8750027	3	CLAMP SET	
5	8769128	3	TWIN COVER PLATE	
6	1001126043	2	HOSE ASSY	
105		Ref	TWIN CLAMP SET, (see Figure 8-1 for details)	
203	2716773	1	HOSE ASSY, (6036)	
	2716684	1	HOSE ASSY, (6042)	
204	2716773	1	HOSE ASSY, (6036)	
	2716684	1	HOSE ASSY, (6042)	
205	2716773	1	HOSE ASSY, (6036)	
	2716684	1	HOSE ASSY, (6042)	
206	2716773	1	HOSE ASSY, (6036)	
	2716684	1	HOSE ASSY, (6042)	
207	2716714	1	HOSE ASSY	
208	2716714	1	HOSE ASSY	
209	7139504	1	BULKHEAD SHEET, LH	
210	7139505	1	BULKHEAD SHEET, RH	
211	7300214	2	TUBE ASSY	
212	8305006	4	HEX NUT, 5/16-18	
213	8307004	4	LOCKWASHER, 5/16	
214	8307203	4	PLAIN WASHER, 0.312	
215	8310009	4	HEX HD CAPSCREW, 5/16-18X2.00	
216	2220373	4	ADAPTER, STRAIGHT	
218	8760463	2	ADAPTER, BULKHEAD LOCKNUT	
219	8760477	2	ADAPTER, BULKHEAD RUN TEE	
308	2220596	1	ELBOW, 90 DEGREES	
316	2220474	1	ELBOW, 90 DEGREES	
318		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
401	2713452	1	HOSE ASSY	
402	2713452	1	HOSE ASSY	
403		Ref	TILT CYLINDER, (see Figure 9-3 for details)	
423	7116733	1	HOSE PULLEY ASSY	
441	7300672	1	BOOM ATTACHMENT TILT TUBE, (retract)	
442	7300673	1	BOOM ATTACHMENT TILT TUBE, (extend)	
459	7303739	3	HEX HD CAPSCREW, 5/16-18X1-1/4, GR	
460	8303752	2	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5, (6042)	
467	8307004	2	LOCKWASHER, 5/16, (6042)	
491	8750003	4	CLAMP HALF, 5/8, (6042)	
492	2220373	2	CONNECTOR	
494	8769122	3	TWIN CLAMP SET, 5/8	
495	8769123	3	TWIN COVER PLATE	
498	8769149	1	COVER PLATE, (6042)	
499	8769161	2	CLAMP HALF, 3/4, (6042)	
500	8760465	2	BULKHEAD NUT	
601	7116812	4	PULLEY ROLLER	



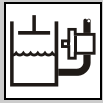
HYDRAULIC CIRCUITS

Figure 8-7 Tilt & Tilt Compensating Cylinder Circuit (Continued)

Item	Part Number	Qty.	Description	Rev.
602	7116642	5	DIVIDER	
603	7116652	1	RH BRACKET	
604	7116662	1	LH BRACKET	
605	7116691	10	SPACER	
606	8310235	1	HEX SOCKET SHOULDER SCREW, 1/2X5	
607	8305645	2	LOCKNUT, 3/8-16	
608	8310209	1	HEX HD CAPSCREW, 1/2-13X6	
609	8305644	1	LOCKNUT, 1/2-13	
610	8307206	2	FLAT WASHER, 1/2	
611	8310245	1	HEX SOCKET SHOULDER SCREW, 1/2X4	
612	8307204	1	FLAT WASHER, 3/8	
733		Ref	COMPENSATING CYLINDER, (see Figure 9-4 for details)	

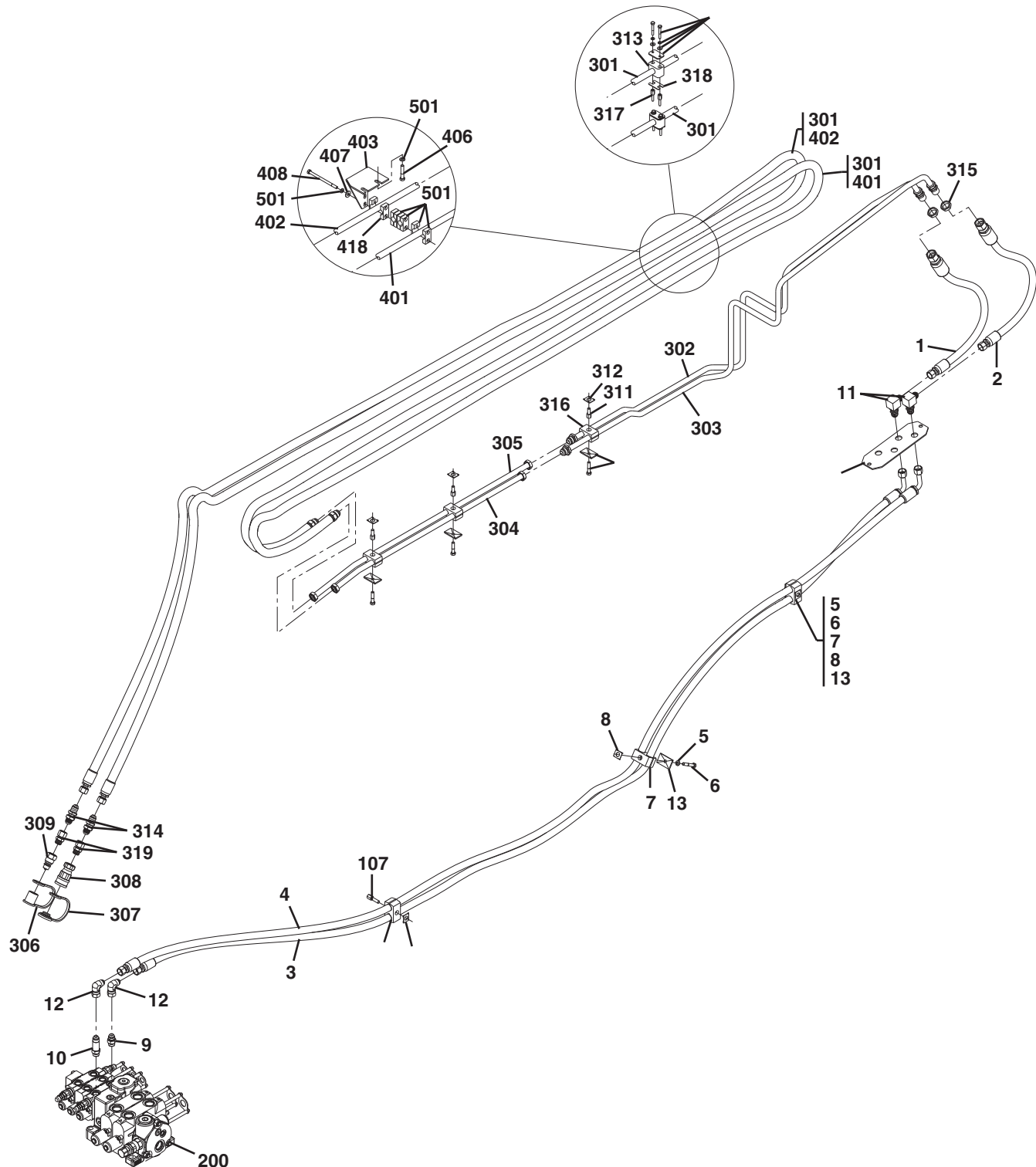
**Figure 8-7 Tilt & Tilt Compensating Cylinder Circuit (Continued)**

Item	Part Number	Qty.	Description	Rev.



HYDRAULIC CIRCUITS

Figure 8-8 Auxiliary Hydraulic



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PA4081

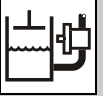


Figure 8-8 Auxiliary Hydraulic

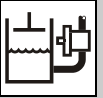
Item	Part Number	Qty.	Description	Rev.
	7310011	Ref	FRAME AUXILIARY HYDRAULIC INSTALL, (6036) , (not available to order, see items 1 thru 13 for service)	C
	7310022	Ref	FRAME AUXILIARY HYDRAULIC INSTALL, (6042) , (not available to order, see items 1 thru 13 & 107 for service)	C
1	2716713	1	HOSE ASSY	
2	2716713	1	HOSE ASSY	
3	2716768	1	HOSE ASSY	
4	2716768	1	HOSE ASSY	
5	8307004	3	LOCKWASHER, 5/16, (6036)	
	8307004	2	LOCKWASHER, 5/16, (6042)	
6	8310009	3	HEX HD CAPSCREW, 5/16-18X2, (6036)	
	8310009	2	HEX HD CAPSCREW, 5/16-18X2, (6042)	
7	8750027	3	TWIN CLAMP SET, 0.84 DIA	
8	8750017	3	SAFETY LOCK SINGLE PLATE	
9	2220373	1	STRAIGHT CONNECTOR	
10	2220381	1	CONNECTOR	
11	2230044	2	BULKHEAD ELBOW, 90 DEGREES	
12	8765204	2	ELBOW, 90 DEGREES, (swivel nut)	
13	8769128	2	TWIN COVER PLATE	
107	8750012	1	STACKING BOLT, (6042)	
200		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
	7139968	Ref	BOOM AUXILIARY HYDRAULIC INSTALL, (6036) , (not available to order, see items 301 thru 319 for service)	F
	7310022	Ref	FRAME AUXILIARY HYDRAULIC INSTALL, (6042) , (not available to order, see items 302 thru 418 for service)	D
301	2716792	2	HOSE ASSY	
302	7139728	1	TUBE ASSY, (6036)	
	7300674	1	TUBE ASSY, (6042)	
303	7139729	1	TUBE ASSY, (6036)	
	7300675	1	TUBE ASSY, (6042)	
304	7150837	1	TUBE ASSY	
305	7150838	1	TUBE ASSY	
306	8420053	1	DUST PLUG, #8	
307	8420055	1	DUST CAP, #8	
308	91403413	1	FEMALE QUICK DISCONNECT	
309	91403414	1	MALE QUICK DISCONNECT	
311	8750011	3	STACKING BOLT, 0.3125	
312	8750017	3	TWIN LOCKING PLATE	
313	8750029	2	CLAMP SET	
314	2230025	2	BULKHEAD STRAIGHT UNION	
315	8760465	2	ADAPTER, BULKHEAD NUT	
316	8769122	3	CLAMP SET	
317	8769155	4	STACKING BOLT, (6036)	
	8769155	3	STACKING BOLT, (6042)	
318	2230025	2	BULKHEAD STRAIGHT UNION	
319	2220651	2	STRAIGHT CONNECTOR	
401	2713082	1	HOSE ASSY	
402	2713082	1	HOSE ASSY	



HYDRAULIC CIRCUITS

Figure 8-8 Auxiliary Hydraulic

Item	Part Number	Qty.	Description	Rev.
403	7111402	1	HOSE CLAMP SUPPORT	
406	8303622	2	HEX HD CAPSCREW, 3/8-16X2, GR5	
407	8307203	2	WASHER, 0.312	
408	8310081	2	HEX HD CAPSCREW, 3/8-18X5, GR5	
418	8769161	2	CLAMP HALF	
501		Ref	BOOM HYDRAULIC COMPONENTS, (see Figure 8-7 for details)	

**Figure 8-8 Auxiliary Hydraulic**

Item	Part Number	Qty.	Description	Rev.

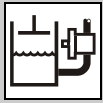
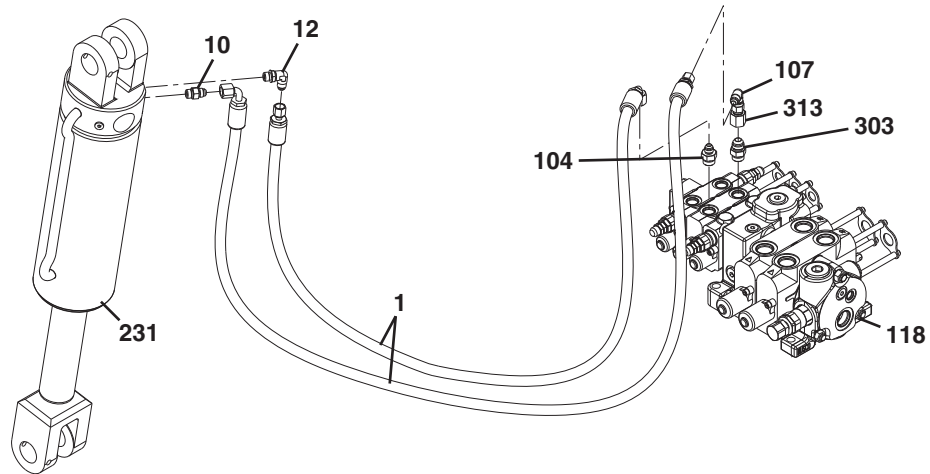
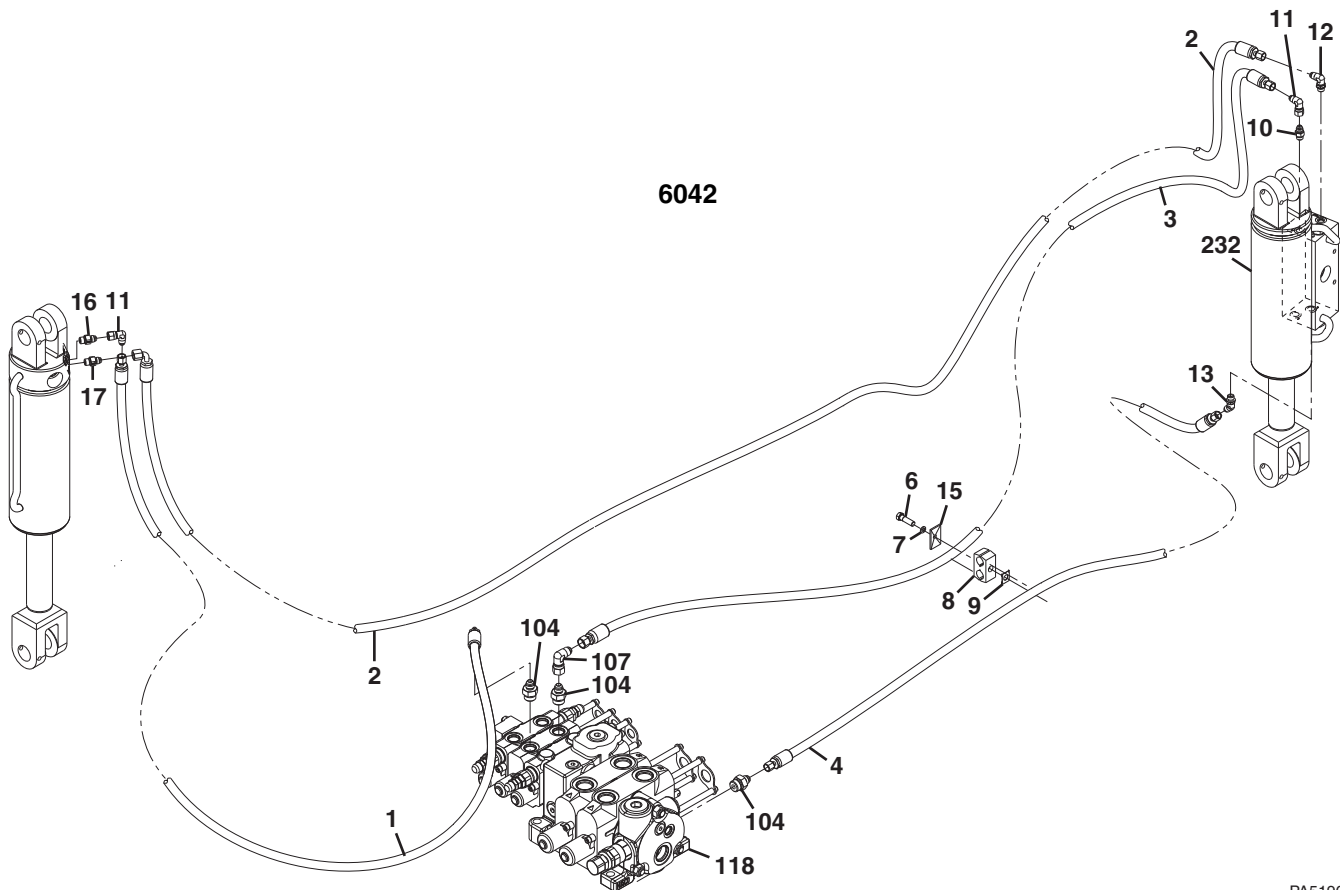


Figure 8-9 Frame Level Circuit

6036



6042



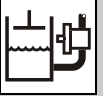
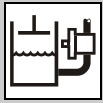


Figure 8-9 Frame Level Circuit

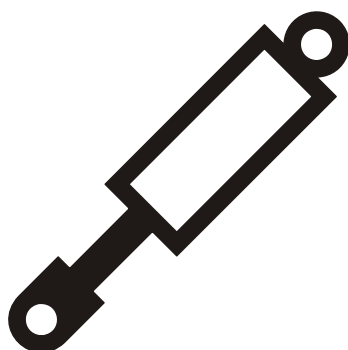
Item	Part Number	Qty.	Description	Rev.
	7300931	Ref	FRAME TILT PLUMBING ASSY INSTALLATION, (not available to order, see items 1 thru 17 for service)	E
1	2716764	2	HOSE ASSY, (6036)	
	2716764	1	HOSE ASSY, (6042)	
2	2717019	1	HOSE ASSY	
3	2717020	1	HOSE ASSY	
4	2717021	1	HOSE ASSY	
6	8303264	1	HEX HD CAPSCREW, 0.438-14X1.50, GR8	
7	8307004	1	LOCKWASHER, 5/16	
8	8750027	1	TWIN CLAMP SET, 0.84 IN DIA	
9	8750017	1	LOCKING PLATE	
10	2220371	1	STRAIGHT CONNECTOR	
11	8760268	3	ELBOW, 90 DEGREES, (swivel nut)	
12	2220473	1	ELBOW, 90 DEGREES	
13	2220501	1	ELBOW, 45 DEGREES	
15	8769128	1	TWIN COVER PLATE	
16	8902857	1	CONNECTOR SPECIAL WITH CHECK VALVE	
17	8902858	1	CONNECTOR SPECIAL WITH CHECK VALVE, (1 black wrench face)	
104	2220372	1	ADAPTER, STRAIGHT, (6036)	
	2220372	3	ADAPTER, STRAIGHT, (6042)	
107	8760268	1	ADAPTER, 90 DEGREES	
118		Ref	MAIN CONTROL VALVE, (see Figure 9-10 for details)	
231		Ref	FRAME LEVEL CYLINDER, (see Figure 9-5 for details)	
232		Ref	STABILIZER CYLINDER, (see Figure 9-6 for details)	
303	2220373	1	ADAPTER, CONNECTOR, (6036)	
313	2220619	1	ADAPTER, CONNECTOR, (6036)	



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SECTION 9

HYDRAULIC COMPONENTS





6036





Figure 9-1 Lift Cylinder

Item	Part Number	Qty.	Description	Rev.
	1684464	2	BOOM LIFT/LOWER CYLINDER, (6036), (includes items 1 thru 19)	A
1	NSS	1	TUBE WELDMENT	
2	7029328	1	PO CHECK VALVE	
	8025655	1	SEAL KIT	
3	7029327	1	COUNTERBALANCE VALVE, (4000 ± 50 PSI), (torque to 30-35 lb-ft)	
	7029330	1	SEAL KIT	
4	8036536	1	LOCKNUT, (torque to 1735-1885 lb-ft)	
5	7029336	1	PISTON	
6	7029333	1	GLAND	
7	7029337	1	ROD WELDMENT	
8	7029334	1	LOCKING COLLAR, (torque to 300-400 lb-ft)	
9	8036537	2	SET SCREW, 3/8-16X3/8	
10	7029335	1	O-RING	
11	Use Kit K1	1	O-RING	
12	Use Kit K1	1	CAPPED T-SEAL	
13	Use Kit K1	1	O-RING	
14	Use Kit K1	1	BACK-UP RING	
15	Use Kit K1	1	DEEP Z-SEAL	
16	Use Kit K1	1	WIPER SEAL	
17	Use Kit K1	1	PRECISION WEARBAND	
18	Use Kit K1	2	PRECISION WEARBAND	
19	Use Kit K1	2	NYLON BALL	
20	8526011	1	LOCTITE® 271™, (apply to item 4)	
105	3423227	1	CYLINDER PIN	
116	8303782	1	HEX HD CAPSCREW, 1/2-13X4, GR5	
120	8305644	1	HEX LOCKNUT, 1/2-13	
124	8520001	1	LUBE FITTING, STRAIGHT	
125	8520003	1	GREASE FITTING, 90 DEGREES	
126	8522012	AR	ANTI SIEZE LUBE	
K1	8036782	1	LIFT/LOWER CYLINDER SEAL KIT, (includes items 11 thru 19)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY	



HYDRAULIC COMPONENTS

Figure 9-1 Lift Cylinder

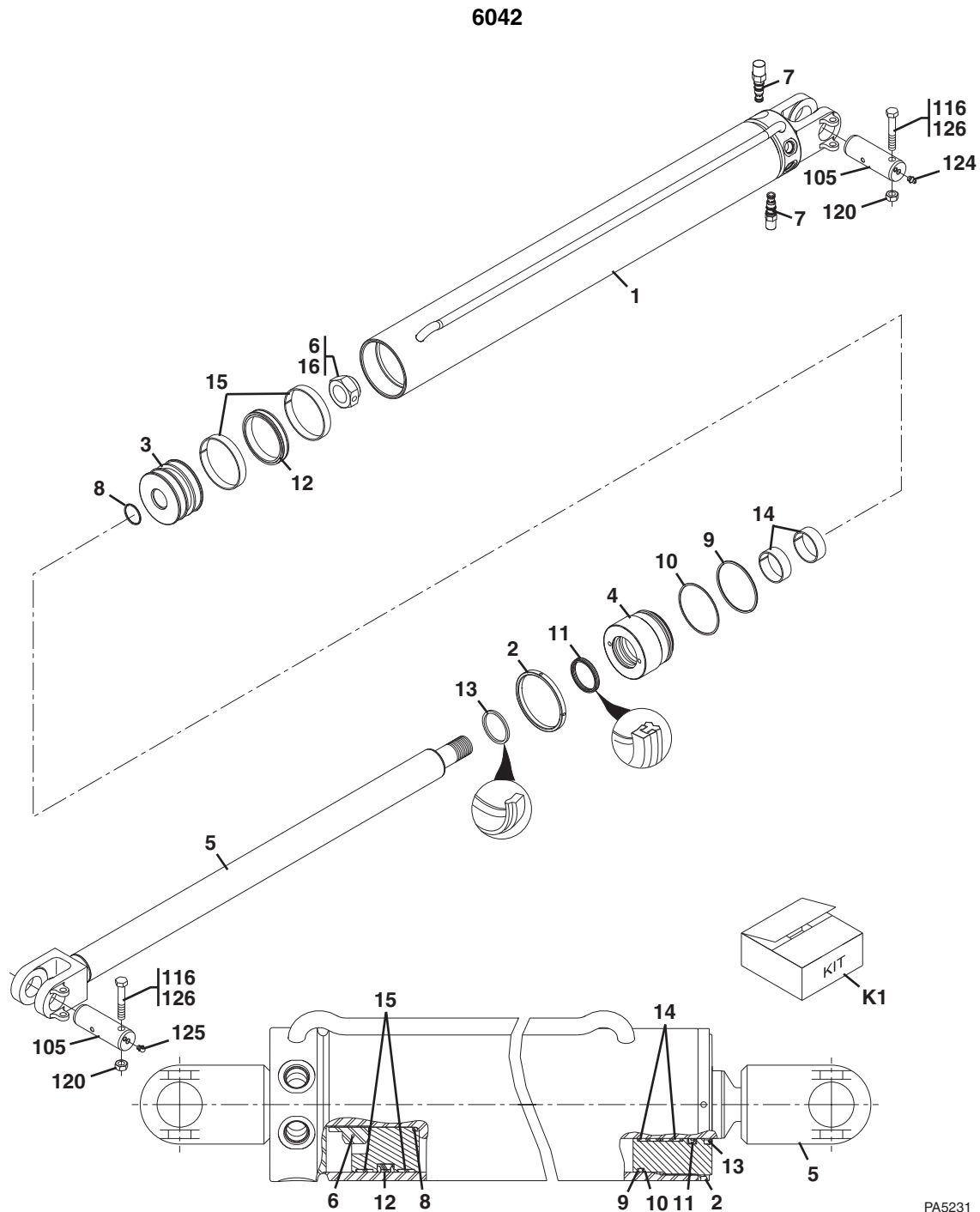




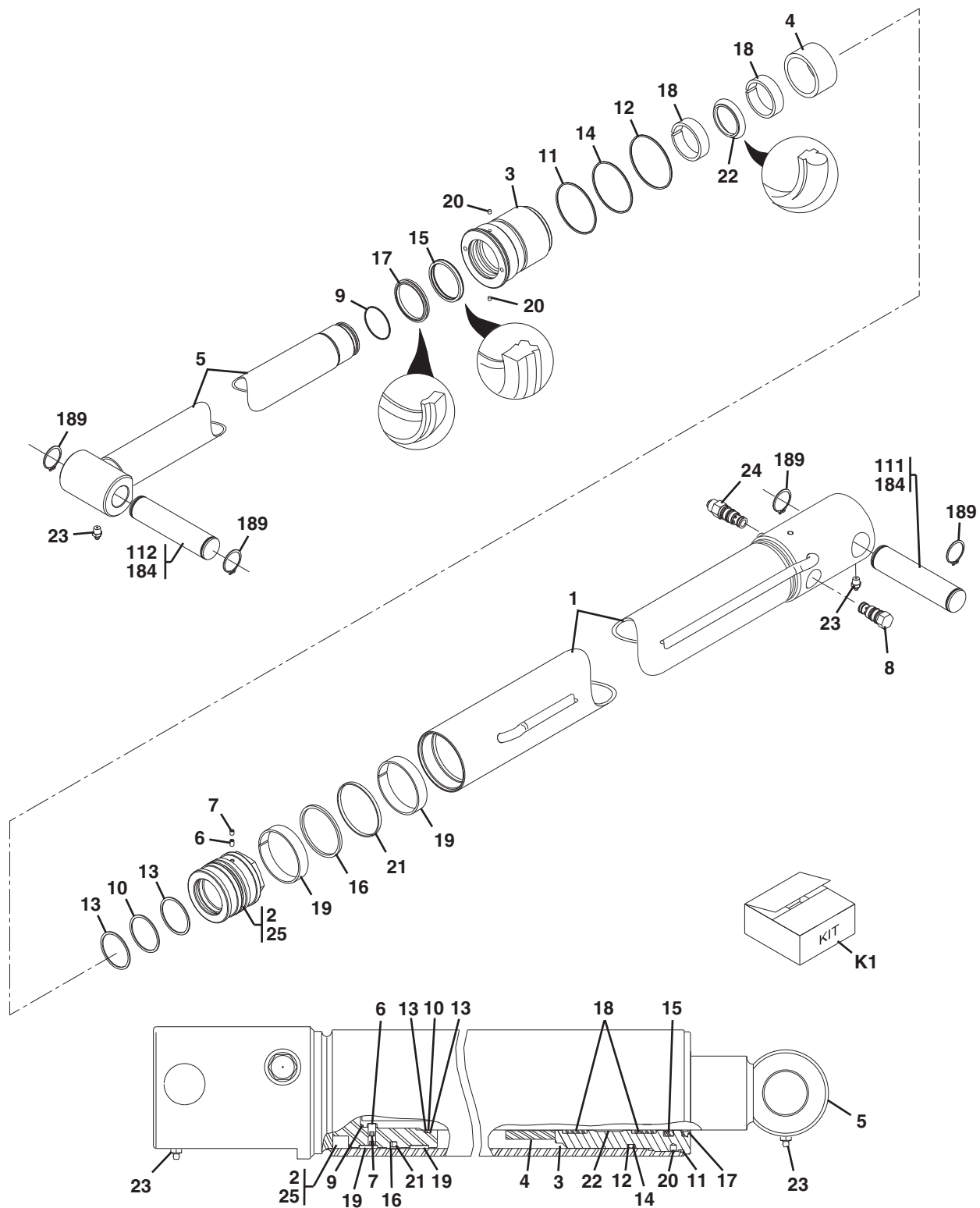
Figure 9-1 Lift Cylinder

Item	Part Number	Qty.	Description	Rev.
	1684537	2	BOOM LIFT/LOWER CYLINDER, (6042) , (includes items 1 thru 15)	A
1	NSS	1	CYLINDER TUBE	
2	8036398	1	LOCKING COLLAR, (torque to 300-400 lb-ft)	
3	8036397	1	PISTON	
4	8036396	1	GLAND	
5	8036489	1	WELDMENT ROD	
6	8036394	1	LOCKNUT, (torque to 1750-2000 lb-ft)	
7	8035321	2	COUNTERBALANCE VALVE, (4000 ± 50 PSI), (torque to 30-35 lb-ft)	
	8035327	1	SEAL KIT	
8	Use Kit K1	1	O-RING	
9	Use Kit K1	1	O-RING	
10	Use Kit K1	1	BACK-UP RING	
11	Use Kit K1	1	DEEP Z-SEAL	
12	Use Kit K1	1	CAPPED T-SEAL	
13	Use Kit K1	1	WIPER SEAL	
14	Use Kit K1	2	PRECISION WEARBAND	
15	Use Kit K1	2	PRECISION WEARBAND	
16	8526011	1	LOCTITE® 271™, (apply to item 6)	
105	3423227	2	CYLINDER PIN	
116	8303782	2	HEX HD CAPSCREW, 1/2-13X4, GR5	
120	8305644	2	HEX LOCKNUT, 1/2-13	
124	8520001	1	LUBE FITTING, STRAIGHT	
125	8520003	1	LUBE FITTING, 90 DEGREES	
126	8522012	AR	ANTI-SEIZE LUBE	
K1	8036132	1	LIFT/LOWER CYLINDER SEAL KIT, (includes items 8 thru 15)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY	



HYDRAULIC COMPONENTS

Figure 9-2 Extend/Retract Cylinder



PA4092



Figure 9-2 Extend/Retract Cylinder

Item	Part Number	Qty.	Description	Rev.
	2717008	1	BOOM EXTEND/RETRACT CYLINDER, (includes items 1 thru 24)	D
1	70020369	1	CYLINDER TUBE	
2	8036402	1	PISTON, (torque to 330-390 lb-ft)	
3	8036403	1	HEAD GLAND, (torque to 300-400 lb-ft)	
4	8036498	1	ROD SPACER	
5	8036499	1	WELDMENT ROD	
6	8035536	1	SETSCREW, 5/16-18X.50, (Loctite® 243™ & torque to 10-26 lb-ft)	
7	8036406	1	SETSCREW, 5/16-18X.38, (Loctite® 243™ & torque to 10-12 lb-ft)	
8	8036590	1	COUNTERBALANCE VALVE - NON-ADJUSTABLE SET AT 4,000 PSI, (torque to 40-50 lb-ft)	
	8205656	1	SEAL KIT	
9	Use Kit K1	1	O-RING	
10	Use Kit K1	1	O-RING	
11	Use Kit K1	1	O-RING	
12	Use Kit K1	1	O-RING	
13	Use Kit K1	2	BACK-UP RING	
14	Use Kit K1	1	BACK-UP RING	
15	Use Kit K1	1	WIPER SEAL	
16	Use Kit K1	1	PISTON SEAL	
17	Use Kit K1	1	WIPER SEAL	
18	Use Kit K1	2	WEARBAND	
19	Use Kit K1	2	WEARBAND	
20	Use Kit K1	2	LOCKING INSERT	
21	Use Kit K1	1	SQUARE RING	
22	Use Kit K1	1	BUFFER SEAL	
23	8520013	2	STRAIGHT GREASE FITTING	
24	8036229	1	PO CHECK VALVE, (torque to 40-50 lb-ft)	
	8205656	1	SEAL KIT	
25	8526011	AR	LOCTITE® 271™, (apply to item 2)	
111	7081621	1	EXTEND CYLINDER BASE PIN, (6036)	
	7096552	1	EXTEND CYLINDER BASE PIN, (6042)	
112	7081631	1	EXTEND CYLINDER ROD END PIN, (6036)	
	7096562	1	EXTEND CYLINDER ROD END PIN, (6042)	
184	8522012	AR	ANI SEIZE LUBE	
189	8642234	4	RETAINING RING, (6036)	
	8642224	4	RETAINING RING, (6042)	
K1	8036502	1	SEAL KIT, (includes items 9 thru 22)	



HYDRAULIC COMPONENTS

Figure 9-3 Attachment Tilt Cylinder

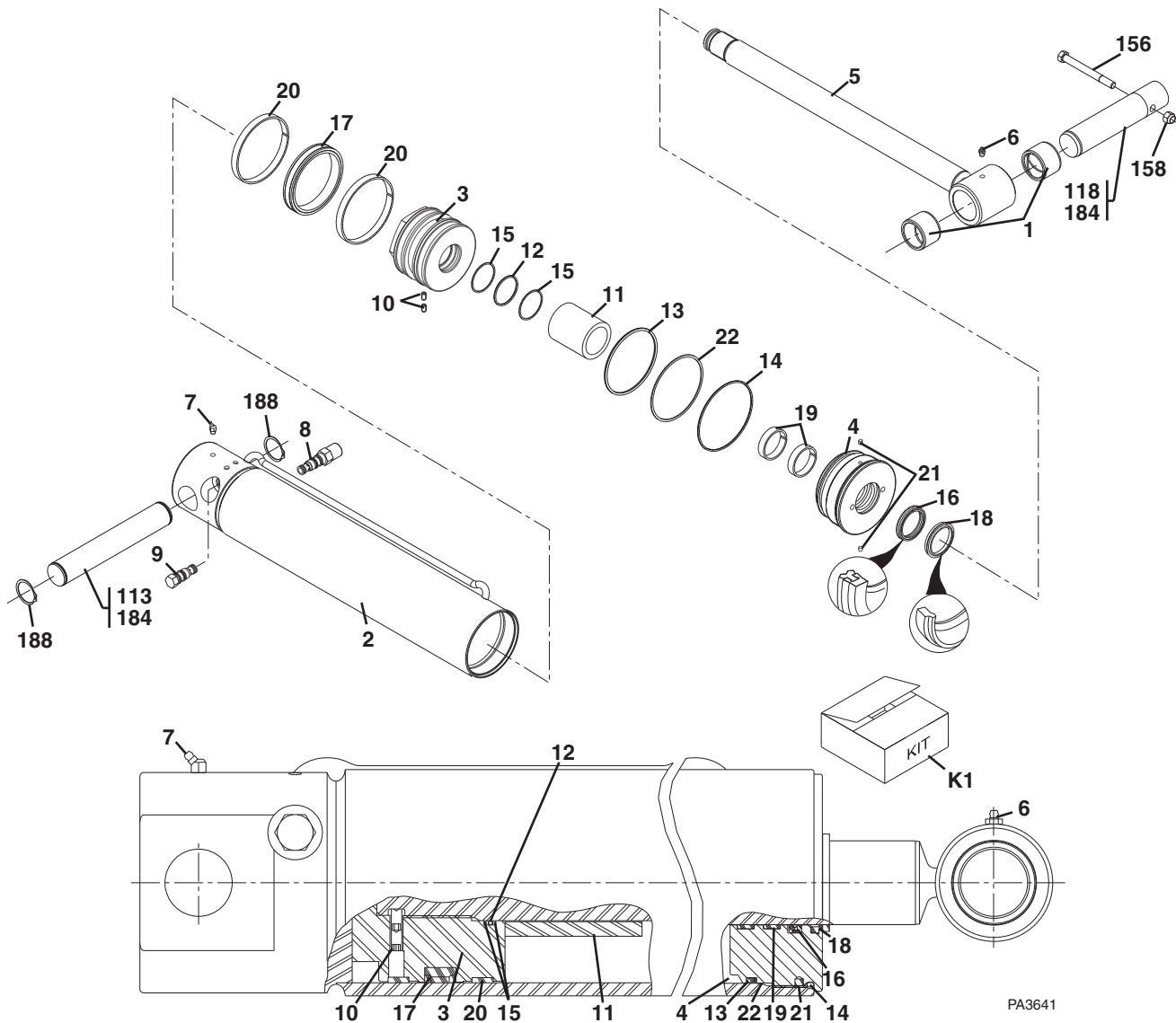




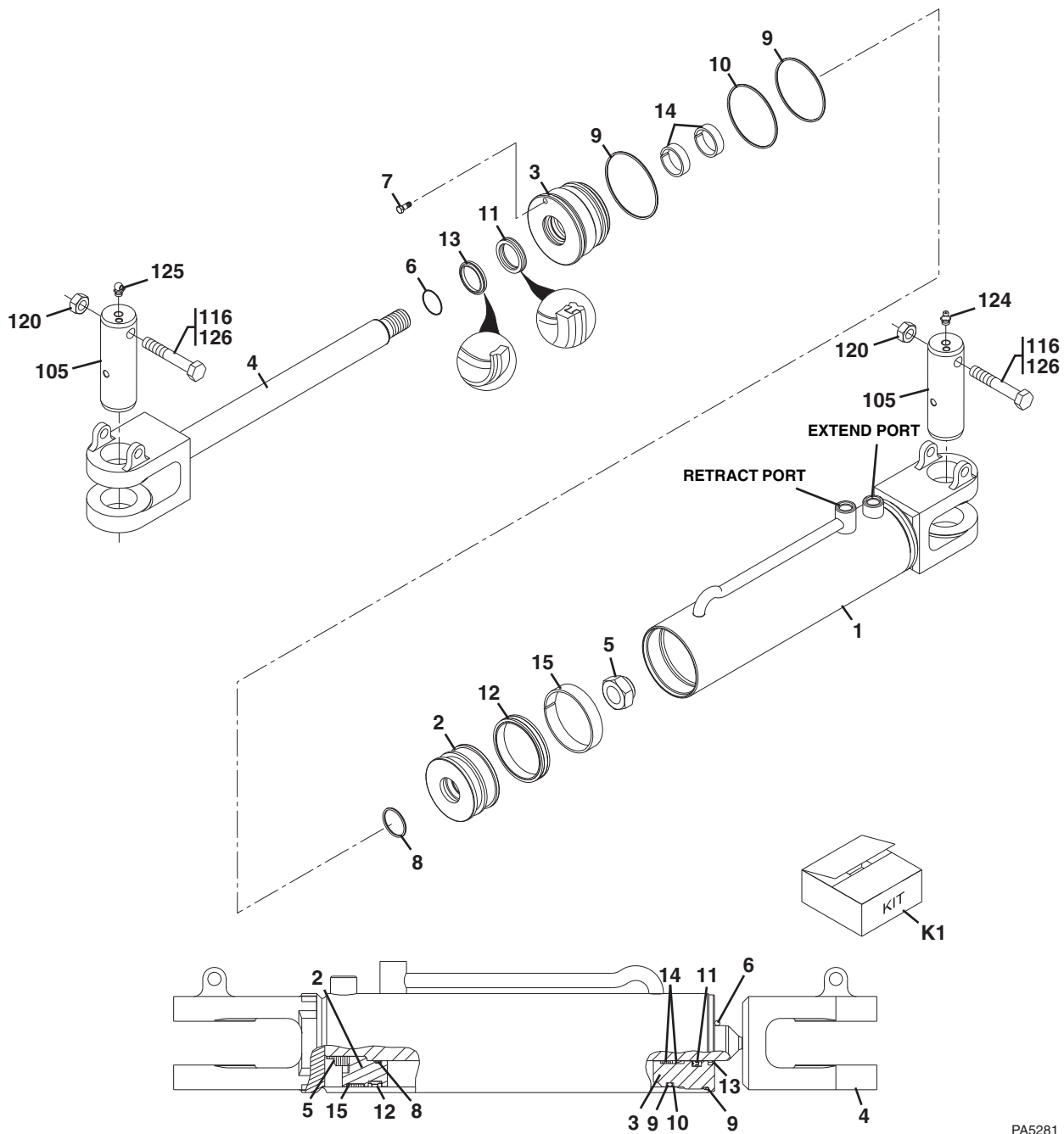
Figure 9-3 Attachment Tilt Cylinder

Item	Part Number	Qty.	Description	Rev.
	2716614	1	ATTACHMENT TILT CYLINDER, (includes all items)	E
1	8036149	2	BEARING	
2	70023265	1	WELDMENT TUBE	
3	8036392	1	PISTON, (Loctite® 243™ & torque to 200-300 lb-ft)	
4	8036391	1	GLAND, (torque to 300-400 lb-ft)	
5	8036389	1	WELDMENT ROD	
6	8036144	1	STRAIGHT LUBE FITTING	
7	8520034	1	LUBE FITTING, 45 DEGREES	
8	8035321	1	COUNTERBALANCE VALVE, (4000 PSI), (torque to 30-35 lb-ft)	
	8035327	1	SEAL KIT	
9	8036393	1	CHECK VALVE, (torque to 30-35 lb-ft)	
	8205655	1	SEAL KIT	
10	8035536	2	SET SCREW, 5/16-18X.5, (Loctite® 243™ & torque to 155-175 lb-ft)	
11	8036390	1	ROD SPACER	
12	Use Kit K1	1	O-RING	
13	Use Kit K1	1	O-RING	
14	Use Kit K1	1	O-RING	
15	Use Kit K1	2	DYNAMIC BACK-UP RING	
16	Use Kit K1	1	DEEP Z-SEAL	
17	Use Kit K1	1	CAPPED T-SEAL	
18	Use Kit K1	1	WIPER SEAL	
19	Use Kit K1	2	PRECISION WEARBAND	
20	Use Kit K1	2	PRECISION WEARBAND	
21	Use Kit K1	2	LOCKING INSERT	
22	Use Kit K1	1	DYNAMIC BACK-UP RING	
113	7095522	1	FORK TILT CYLINDER BASE PIN	
118	7083992	1	FORK TILT CYLINDER ROD END PIN	
156	8303772	1	HEX HD CAPSCREW, 1/2-13X5, GR5	
158	8305644	1	HEX LOCKNUT, 1/2-13	
184	8522012	AR	ANI SEIZE LUBE	
188	8642234	2	RETAINING RING, (6036)	
	8642224	2	RETAINING RING, (6042)	
K1	8035720	1	ATTACHMENT TILT CYLINDER SEAL KIT, (includes items 12 thru 22)	



HYDRAULIC COMPONENTS

Figure 9-4 Tilt Compensation Cylinder



PA5281



Figure 9-4 Tilt Compensation Cylinder

Item	Part Number	Qty.	Description	Rev.
	2717260	2	SLAVE CYLINDER, (includes items 1 thru 15)	B
1	NSS	1	CYLINDER TUBE	
2	7029247	1	PISTON	
3	7029250	1	GUIDE, (torque 300-350 lb-ft)	
4	7029251	1	ROD	
5	7017278	1	LOCKNUT, 1-1/8-12, (torque 650-700 lb-ft)	
6	7029249	1	O-RING	
7	7017283	1	HEX SOCKET SET SCREW, 1/4-20X3/8, (torque to 3-4 lb-ft)	
8	Use Kit K1	1	O-RING	
9	Use Kit K1	2	O-RING	
10	Use Kit K1	1	BACK-UP RING	
11	Use Kit K1	1	DEEP Z-SEAL	
12	Use Kit K1	1	CAPPED T-SEAL	
13	Use Kit K1	1	WIPER RING	
14	Use Kit K1	2	WEAR RING	
15	Use Kit K1	1	WEAR RING	
105	3423227	2	CYLINDER PIN	
116	8303782	2	HEX HD CAPSCREW, 1/2-13X4, GR5	
120	8305644	2	HEX LOCKNUT, 1/2-13	
124	8520001	1	LUBE FITTING, STRAIGHT	
125	8520003	1	LUBE FITTING, 90 DEGREES	
126	8522012	AR	ANTI-SEIZE LUBE	
K1	7028739	1	SEAL KIT, (includes items 8 thru 15)	
N1	Note	Ref	QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY	



HYDRAULIC COMPONENTS

Figure 9-5 Frame Level Cylinder

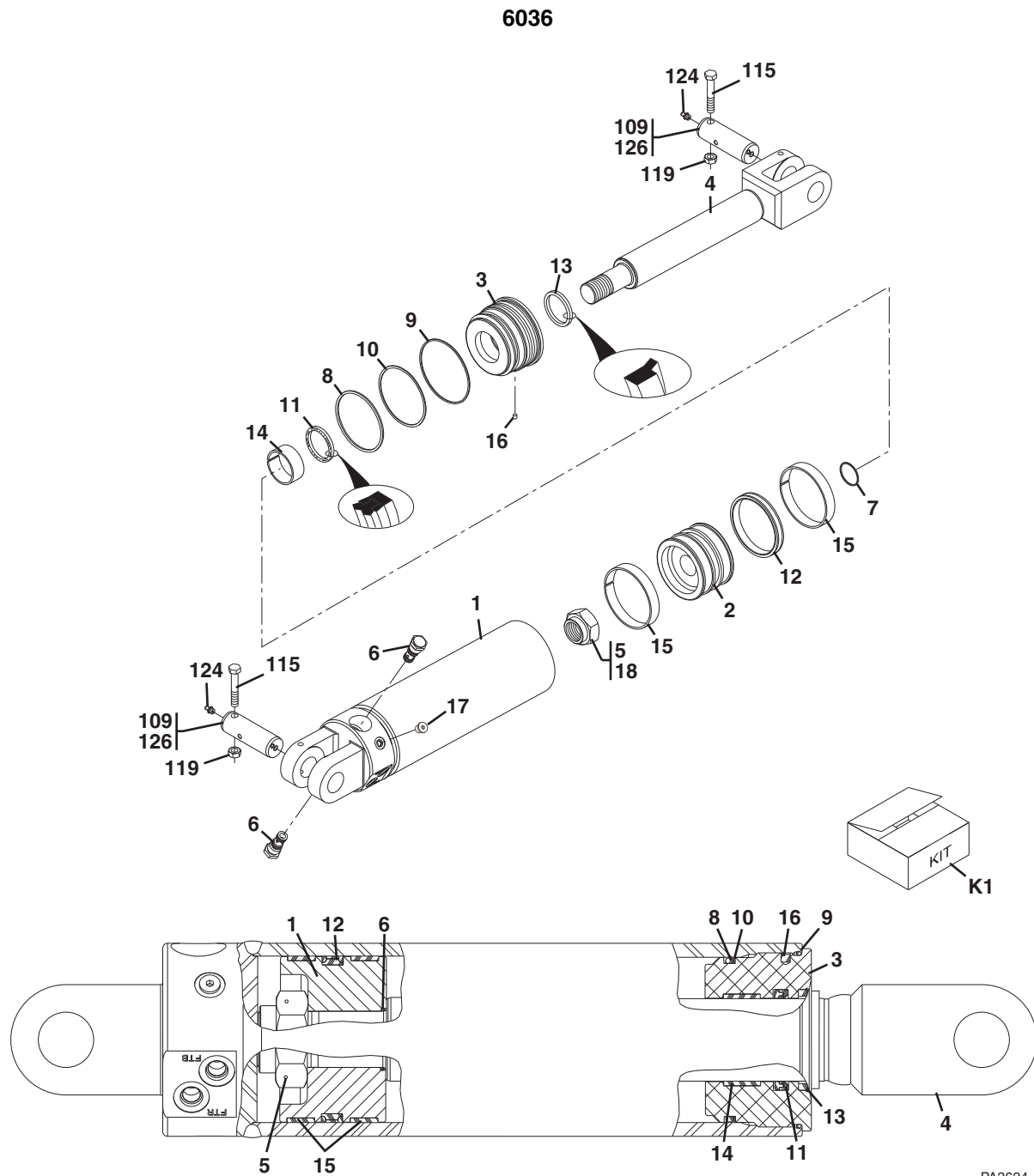




Figure 9-5 Frame Level Cylinder

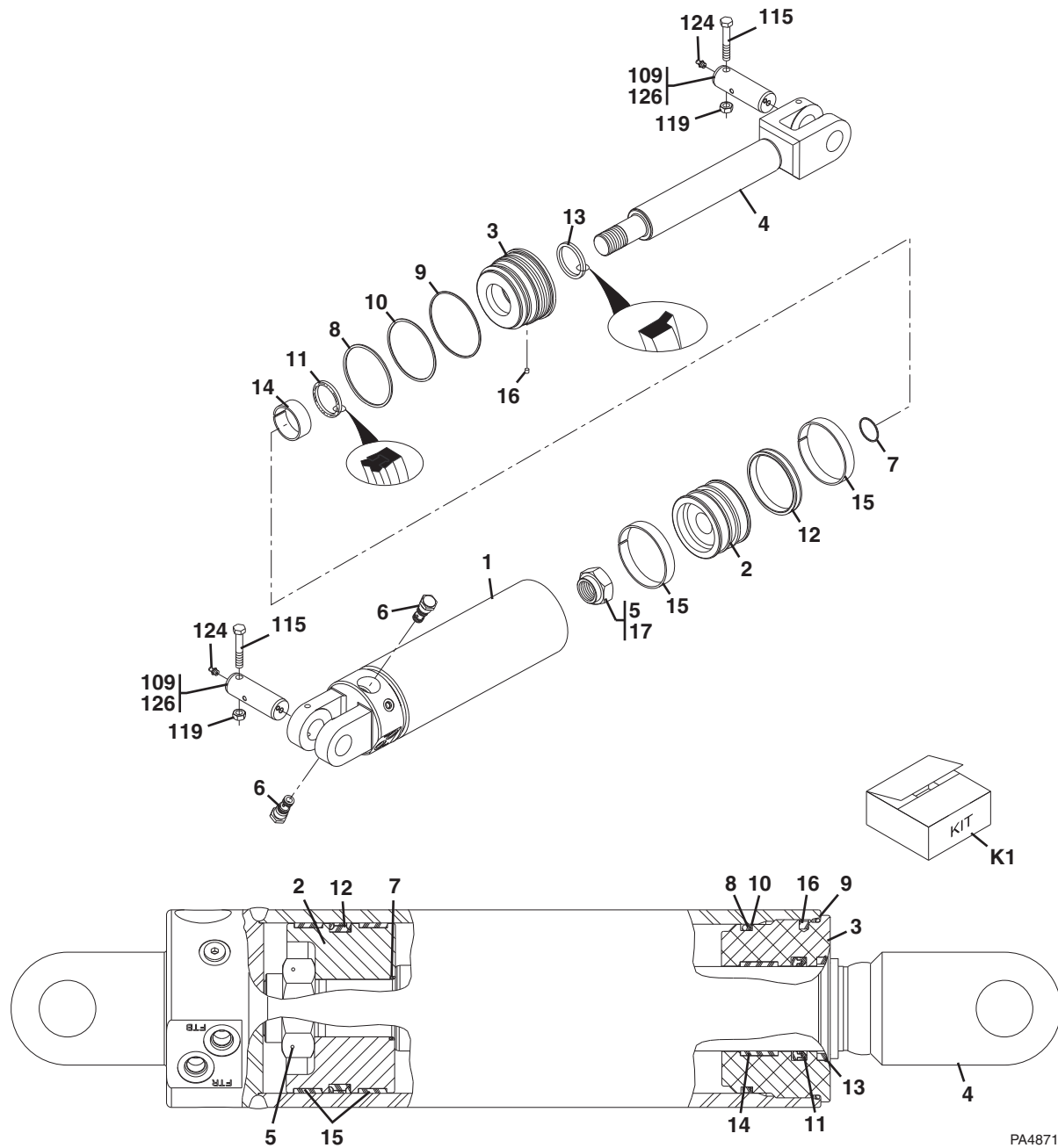
Item	Part Number	Qty.	Description	Rev.
	1001091901	1	FRAME LEVEL CYLINDER, (6036), (includes items 1 thru 17)	C
1	NSS	1	TUBE WELDMENT	
2	8035323	1	PISTON	
3	8035324	1	HEAD GLAND, (torque to 300-400 lb-ft)	
4	8035758	1	ROD WELDMENT	
5	8035322	1	HEX LOCKNUT, 1.50-12, (torque to 1100-1250 lb-ft)	
6	1001091885	2	COUNTERBALANCE VALVE - SERIES 10, (torque to 35-40 lb-ft)	
	70021583	1	SEAL KIT	
7	Use Kit K1	1	O-RING	
8	Use Kit K1	1	O-RING	
9	Use Kit K1	1	O-RING	
10	Use Kit K1	1	BACK-UP RING	
11	Use Kit K1	1	DEEP Z-SEAL	
12	Use Kit K1	1	CAPPED T-SEAL	
13	Use Kit K1	1	WIPER SEAL	
14	Use Kit K1	1	PRECISION WEARBAND	
15	Use Kit K1	2	PRECISION WEARBAND	
16	Use Kit K1	1	LOCKING INSERT	
17	8035785	2	HEX PLUG	
18	8526011	AR	LOCTITE® TREADLOCKER 271™, (apply to item 5)	
109	7137142	2	SLAVE CYLINDER PIN	
115	8303752	2	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	
119	8305626	2	HEX LOCKNUT, 5/16-18	
124	8520001	2	LUBE FITTING, STRAIGHT	
126	8522012	AR	ANTI SIEZE LUBE	
K1	8035326	1	FRAME LEVEL CYLINDER SEAL KIT, (includes items 7 thru 16)	



HYDRAULIC COMPONENTS

Figure 9-5 Frame Level Cylinder

6042



PA4871



Figure 9-5 Frame Level Cylinder

Item	Part Number	Qty.	Description	Rev.
	2716563	1	FRAME LEVEL CYLINDER, (6042), (includes items 1 thru 16)	C
1	NSS	1	WELDMENT TUBE	
2	8035323	1	PISTON	
3	8035324	1	HEAD GLAND, (torque to 300-400 lb-ft)	
4	8035758	1	WELDMENT ROD	
5	8035322	1	HEX LOCKNUT, 1.50-12, (torque to 1100-1250 lb-ft)	
6	8035757	2	PO CHECK VALVE - SERIES 10, (torque to 35-40 lb-ft)	
	8035327	2	SEAL KIT	
7	Use Kit K1	1	O-RING	
8	Use Kit K1	1	O-RING	
9	Use Kit K1	1	O-RING	
10	Use Kit K1	1	BACK-UP RING	
11	Use Kit K1	1	DEEP Z-SEAL	
12	Use Kit K1	1	CAPPED T-SEAL	
13	Use Kit K1	1	WIPER SEAL	
14	Use Kit K1	1	PRECISION WEARBAND	
15	Use Kit K1	2	PRECISION WEARBAND	
16	Use Kit K1	1	LOCKING INSERT	
17	8526011	AR	LOCTITE® 271™, (apply to item 5)	
109	7137142	2	SLAVE CYLINDER PIN	
115	8303752	2	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	
119	8305626	2	HEX LOCKNUT, 5/16-18	
124	8520001	2	LUBE FITTING, STRAIGHT	
126	8522012	AR	ANTI SIEZE LUBE	
K1	8035326	1	FRAME LEVEL CYLINDER SEAL KIT, (includes items 7 thru 16)	





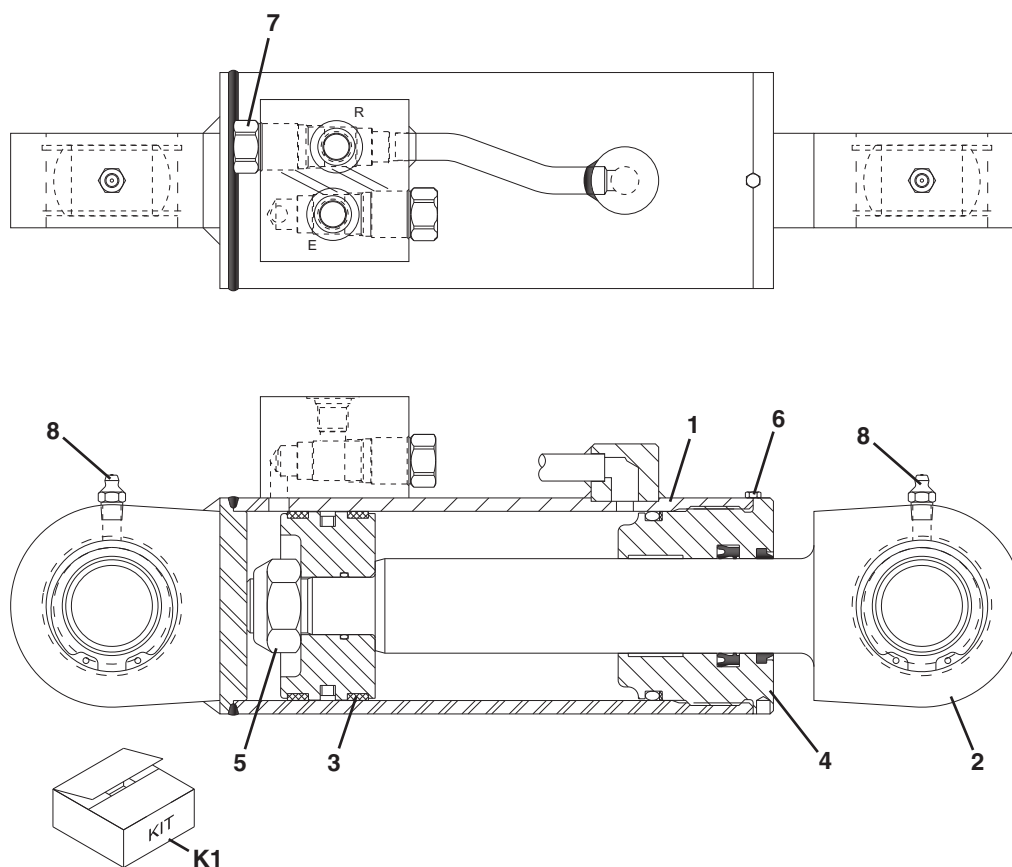
Figure 9-6 Stabili-Trak Cylinder

Item	Part Number	Qty.	Description	Rev.
	2717198	1	STABIL-TRAK CYLINDER, (includes items 1 thru 22)	D
1	NSS	1	WELDMENT TUBE	
2	8035781	2	CONICAL ORIFICE DISK, 0.060 DIA	
3	8036582	1	CHECK VALVE, (torque to 20-25 lb-ft)	
	7017496	1	SEAL KIT	
4	8036826	1	PISTON	
5	8036828	1	GUIDE, (torque to 300-350 lb-ft)	
6	8036827	1	ROD WELDMENT	
7	7029153	1	O-RING	
8	8036811	1	HEX SOCKET SET SCREW, 1/4-20X3/8, (torque to 3-4 lb-ft)	
9	8036825	1	LOCKNUT, 1-1/2-12, (torque to 1175-1400 lb-ft)	
10	8035282	1	PRESSURE REDUCING VALVE, (torque to 35-40 lb-ft)	
	8032994	1	SEAL KIT	
11	8035281	2	PO CHECK VALVE, SERIES 10, (torque to 35-40 lb-ft)	
	8036192	2	SEAL KIT	
12	7029246	5	SOLENOID COIL, (torque to 25-30 lb-ft)	
13	8036581	4	SOLENOID VALVE, 2 WAY, 12V	
	7017496	4	SEAL KIT	
14	8036580	1	SOLENOID VALVE, 4 WAY, 12V	
	7012903	1	SEAL KIT	
15	Use Kit K1	1	O-RING	
16	Use Kit K1	1	WEAR RING	
17	Use Kit K1	2	O-RING	
18	Use Kit K1	1	BACK-UP RING	
19	Use Kit K1	1	DEEP Z-SEAL	
20	Use Kit K1	1	CAPPED T-SEAL	
21	Use Kit K1	1	WIPER RING	
22	Use Kit K1	2	WEAR RING	
109	7137142	2	SLAVE CYLINDER PIN	109
115	8303752	2	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	115
119	8305626	2	HEX LOCKNUT, 5/16-18	119
124	8520001	2	LUBE FITTING, STRAIGHT	124
126	8522012	AR	ANTI SIEZE LUBE	
K1	8036747	1	SEAL KIT, (includes items 15 thru 22)	



HYDRAULIC COMPONENTS

Figure 9-7 Side Tilt Carriage Cylinder



PY1581



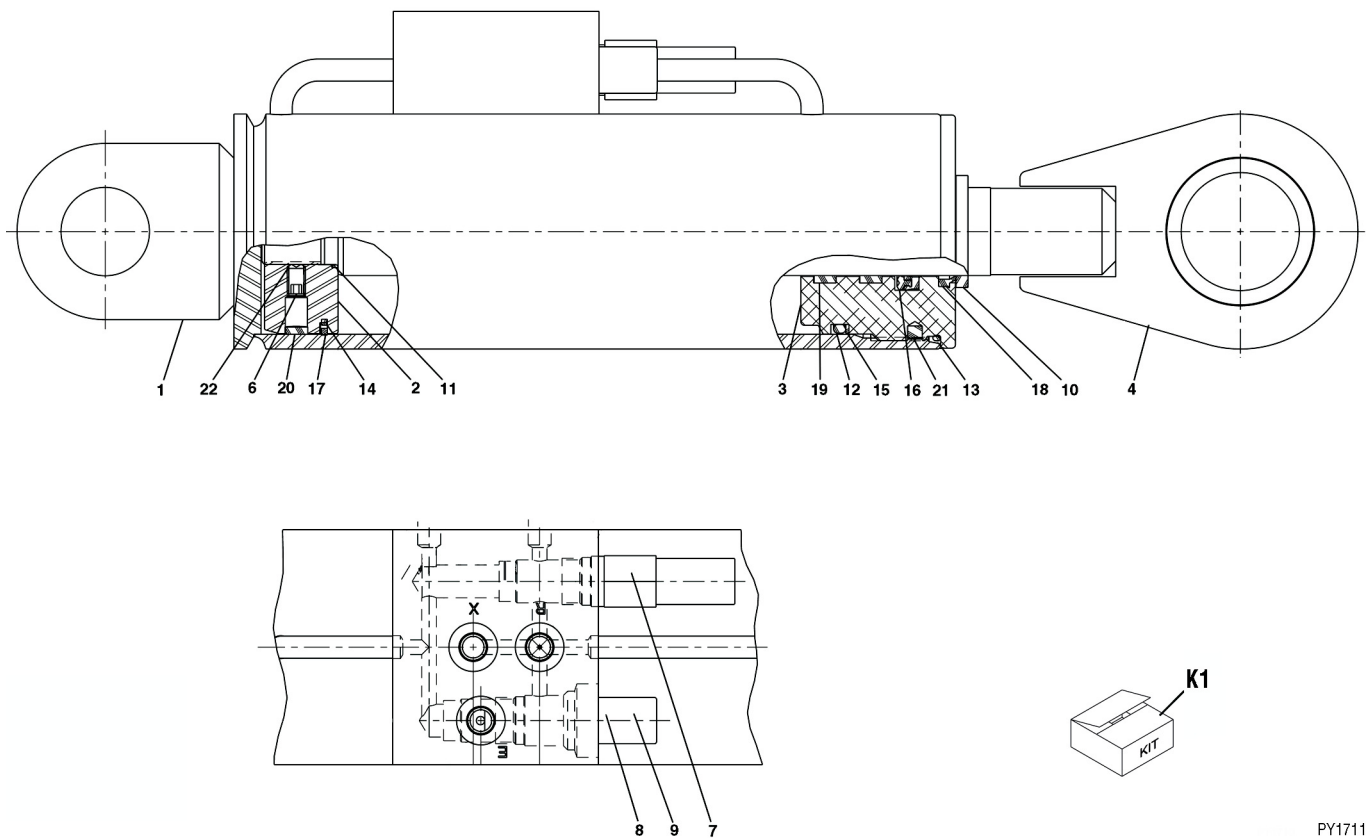
Figure 9-7 Side Tilt Carriage Cylinder

Item	Part Number	Qty.	Description	Rev.
	1001090134	1	SIDE TILT CARRIAGE CYLINDER, (includes all items)	B
1	70022038	1	BARREL ASSY	
2	70022039	1	ROD ASSY	
3	70022040	1	PISTON	
	70022042	1	SEAL KIT	
4	70021908	1	ROD BEARING	
	70022043	1	SEAL KIT	
5	90022230	1	HEX NUT	
6	7029760	1	CAPSCREW	
7	4640438	2	CHECK VALVE	
	2900770	1	SEAL KIT	
8	91044080	2	GREASE FITTING	
K1	70022041		SEAL KIT, (contains 70022042 & 70022043)	



HYDRAULIC COMPONENTS

Figure 9-8 72 In 90 Degree Swing Carriage Cylinder



PY1711



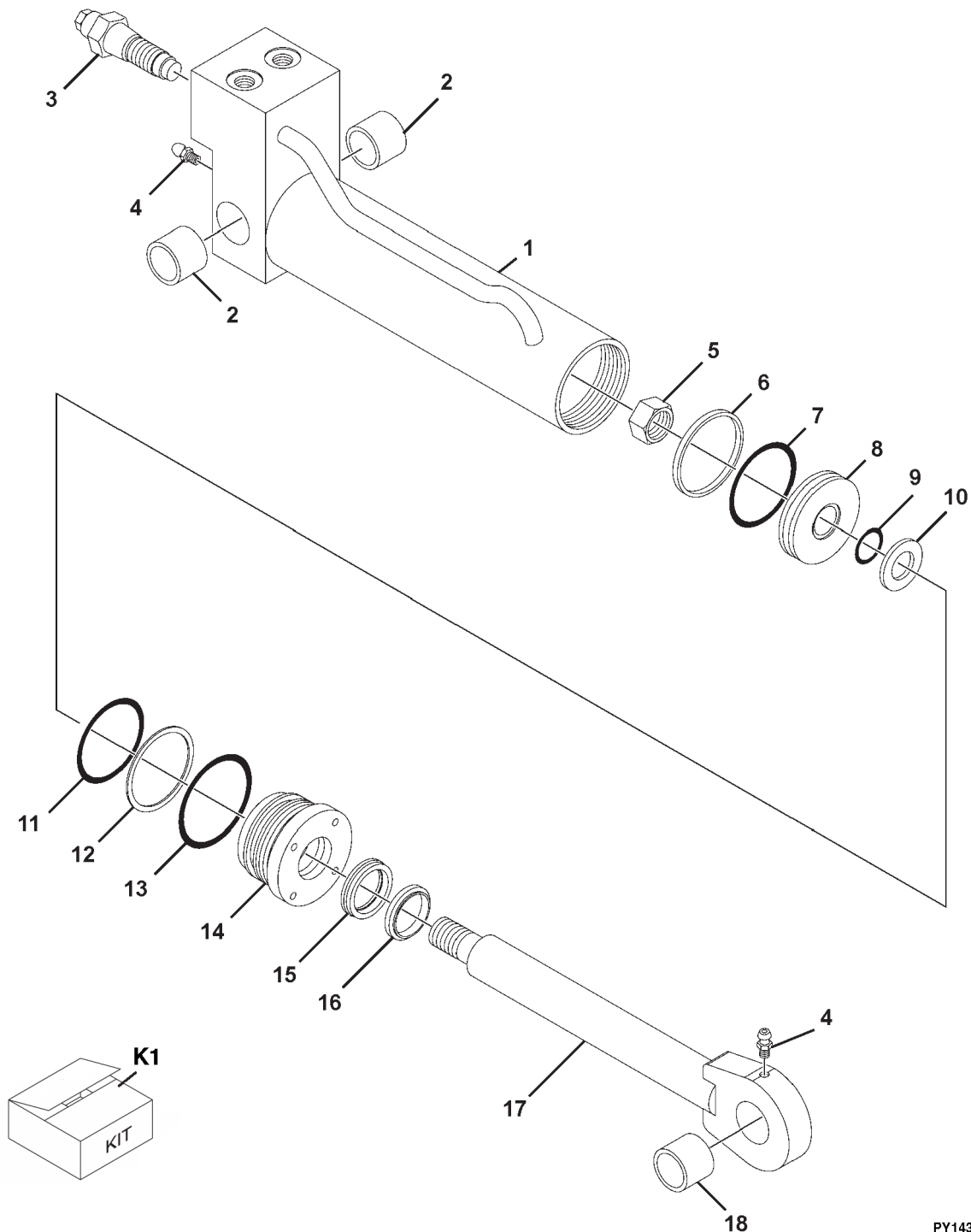
Figure 9-8 72 In 90 Degree Swing Carriage Cylinder

Item	Part Number	Qty.	Description	Rev.
	1001103182	1	SWING CARRIAGE CYLINDER, (includes items 1 thru 22)	A
1	70022044	1	TUBE ASSY	
2	8035863	1	PISTON	
3	8035862	1	HEAD GLAND	
4	70022045	1	ROD ASSY	
5	70022046	1	BEARING	
6	8035536	2	SET SCREW, 5/16-18X1/2	
7	70020428	1	RELIEF VALVE, (preset to 2000 psi)	
	7024574	1	SEAL KIT	
8	8033786	1	COUNTER BALANCE VALVE, (preset to 3000 psi)	
	8205655	1	SEAL KIT	
11	Use Kit K1	1	O-RING	
12	Use Kit K1	1	O-RING	
13	Use Kit K1	1	O-RING	
14	Use Kit K1	1	SQUARE RING	
15	Use Kit K1	1	BACKUP RING	
16	Use Kit K1	1	SEAL	
17	Use Kit K1	1	PISTON SEAL	
18	Use Kit K1	1	ROD WIPER	
19	Use Kit K1	2	WEARBAND	
20	Use Kit K1	1	WEARBAND	
21	Use Kit K1	2	INSERT	
22	Use Kit K1	2	INSERT	
K1	2915023	1	SEAL KIT, (includes items 11 thru 22)	



HYDRAULIC COMPONENTS

Figure 9-9 Grapple Bucket Cylinder



PY1431



Figure 9-9 Grapple Bucket Cylinder

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



HYDRAULIC COMPONENTS

Figure 9-10 Main Control Valve

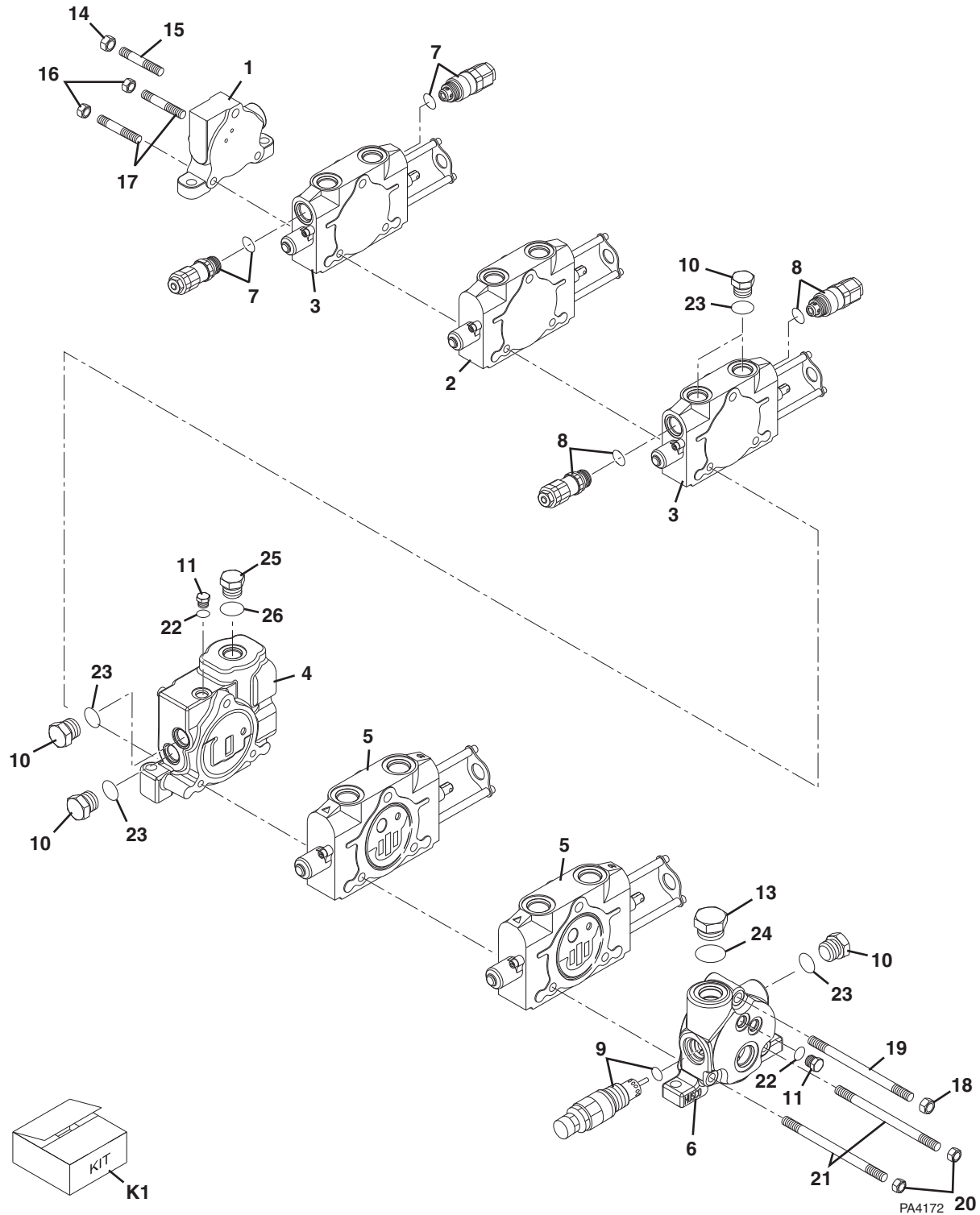




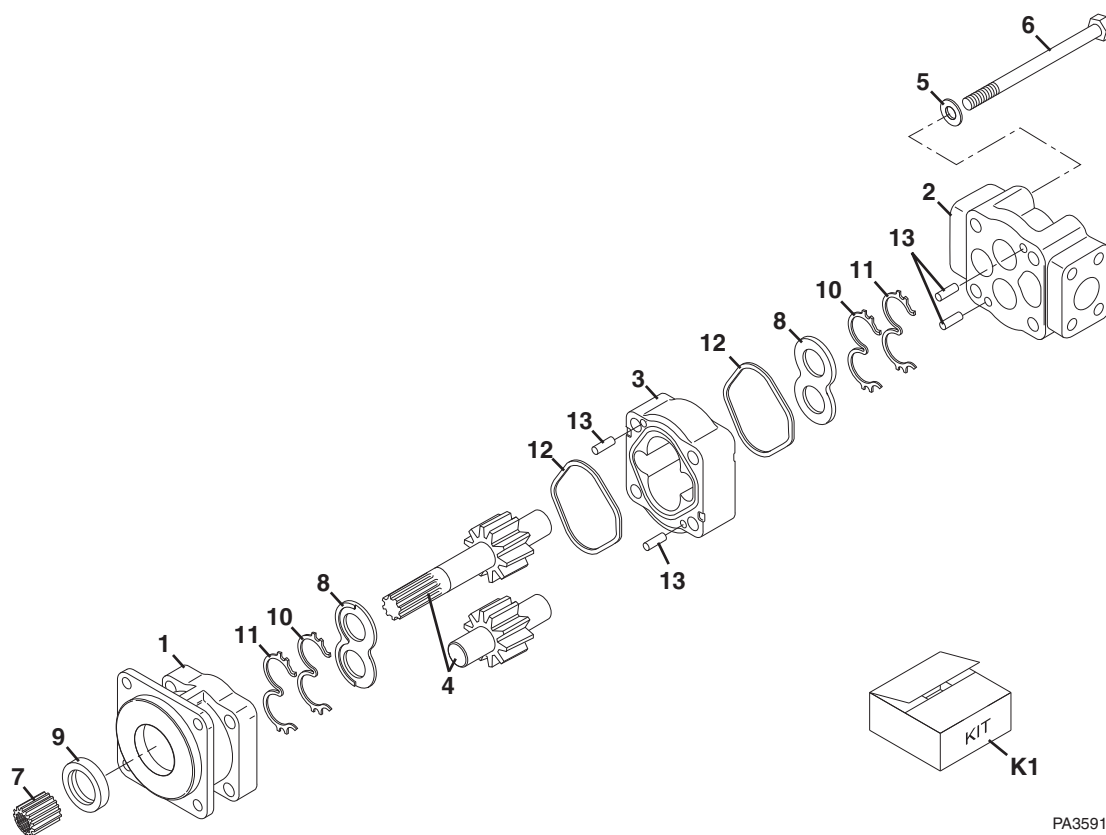
Figure 9-10 Main Control Valve

Item	Part Number	Qty.	Description	Rev.
	8902187	1	MAIN CONTROL VALVE, (includes all items)	AD
1	8035848	1	OUTLET SECTION ASSY	
2	8036177	1	FRAME LEVEL SECTION ASSY	
3	8036178	2	ATTACHMENT TILT AND AUXILIARY HYDRAULIC SECTION ASSY	
4	8035849	1	MID-INLET SECTION ASSY	
5	8036179	2	BOOM EXTEND/RETRACT AND BOOM LIFT/LOWER SECTION ASSY	
6	8036263	1	EXTEND/RETRACT AND LIFT/LOWER SECTION ASSY OUTLET	
7	8036175	2	RELIEF ASSY VALVE - Preset at 3250 ± 50 psi (224 ± 3,4 bar)	
8	8036174	2	RELIEF ASSY VALVE - Preset at 3250 ± 50 psi (224 ± 3,4 bar)	
9	8035844	1	MAIN RELIEF VALVE - Preset at 3500 ± 50 psi (242 ± 3,4 bar)	
10	8035834	4	PLUG, #10	
11	8035843	2	PLUG	
12	8760419	2	PLUG, #6, (not used on machines with auxiliary hydraulics)	
13	8035835	1	PLUG, #10	
14	8035346	1	NUT	
15	8036283	1	TIE ROD	
16	8035348	2	NUT	
17	8036284	2	TIE ROD	
18	8035347	1	NUT	
19	8036282	1	TIE ROD	
20	8035381	2	NUT	
21	8036281	2	TIE ROD	
22	8036533	2	O-RING	
23	8036517	4	O-RING	
24	7013903	1	O-RING	
25	7013930	1	PLUG	
26	7013928	1	O-RING	
K1	8036180	1	COMPLETE VALVE SEAL KIT	



HYDRAULIC COMPONENTS

Figure 9-11 Gear Pump



PA3591



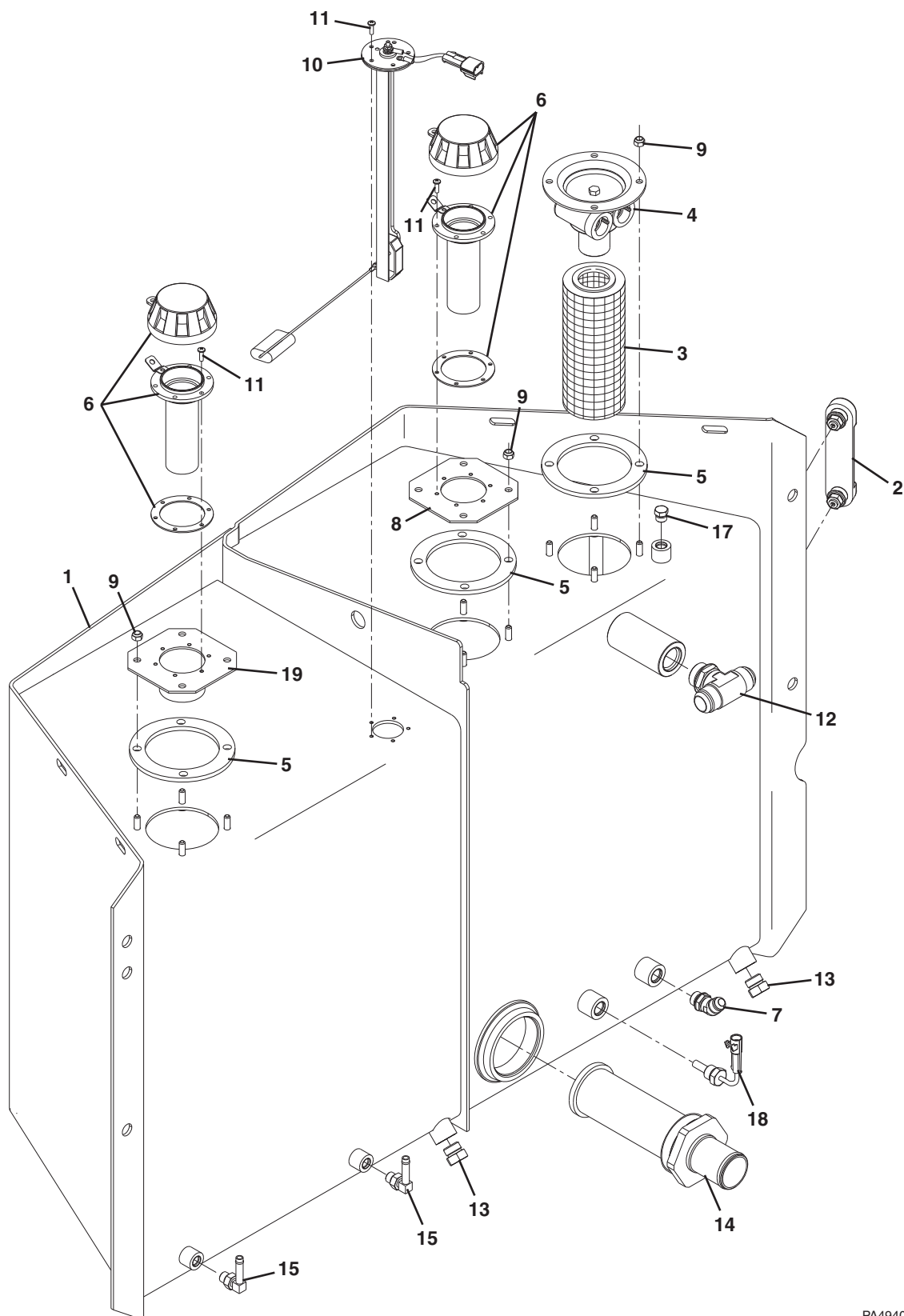
Figure 9-11 Gear Pump

Item	Part Number	Qty.	Description	Rev.
	8440162	1	GEAR PUMP, (includes all items)	AA
1	NSS	1	SEC HOUSING	
2	NSS	1	PEC HOUSING	
3	8036428	1	GEAR HOUSING	
4	8036271	1	GEAR SHAFT SET	
5	NSS	4	WASHER	
6	8035745	4	HEX HD CAPSCREW	
7	8035744	1	SPLINE ADAPTER	
8	NSS	2	THRUST PLATE	
9	Use Kit K1	1	LIP SEAL	
10	Use Kit K1	2	CHANNEL SEAL	
11	Use Kit K1	2	BACK-UP SEAL	
12	Use Kit K1	2	SQUARE R SEAL	
13	83671037	4	DOWEL PIN	
K1	8036429	1	GEAR PUMP SEAL KIT, (includes items 9 thru 12)	



HYDRAULIC COMPONENTS

Figure 9-12 Fuel/Hydraulic Tank Assembly



PA4940



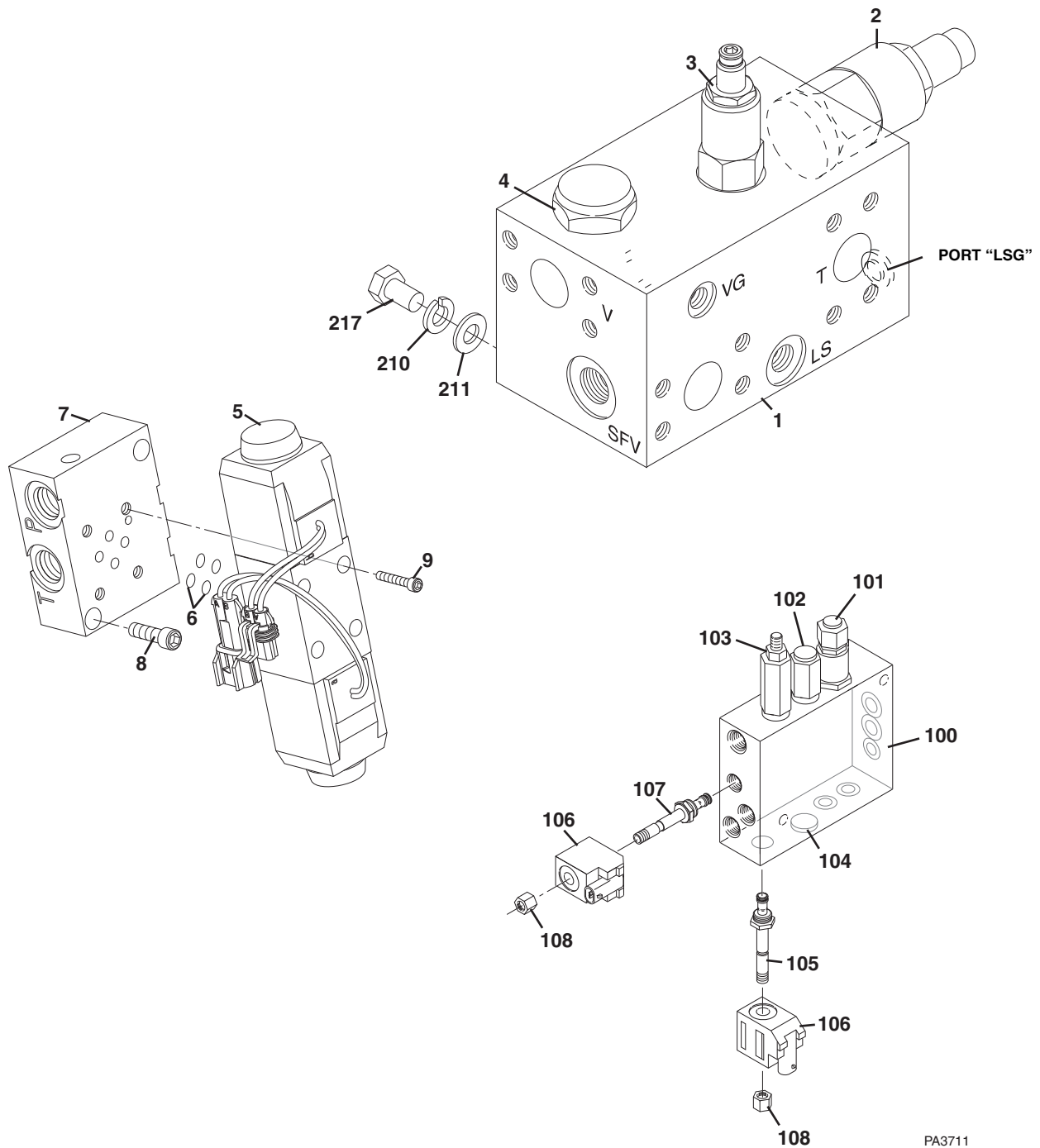
Figure 9-12 Fuel/Hydraulic Tank Assembly

Item	Part Number	Qty.	Description	Rev.
	1001100218	1	FUEL/HYDRAULIC TANK ASSEMBLY, (includes all items)	E
1	7301862	1	FUEL/HYDRAULIC TANK	
2	7024441	1	SIGHT GUAGE	
3	7301252	1	RETURN FILTER ELEMENT	
4	1001091752	1	INTAKE FILTER HEAD	
5	7138209	3	HYDRAULIC TANK GASKET	
6	7139077	2	FILLER/BREATHER	
7	2220500	1	ELBOW, 45 DEGREES, (includes o-ring)	
8	7139076	1	PLATE	
9	8305626	12	HEX LOCKNUT, 5/16-18	
10	1001145026	1	FUEL SENDER	
11	8310163	17	PAN HD SCREW, #10-24X5/8	
12	8760552	1	TEE FITTING	
13	2220239	2	PLUG, (includes o-ring)	
14	7138740	1	SUCTION STRAINER	
	7029716	1	O-RING	
15	8430034	2	ELBOW, 90 DEGREES, (includes o-ring)	
17	2220237	1	HEX HD PLUG, #6, (includes o-ring)	
18	8223226	1	HYDRAULIC TEMPERATURE SWITCH.	
19	1001134961	1	FUEL FILL ADAPTER	



HYDRAULIC COMPONENTS

Figure 9-13 Directional Control Valves



PA3711

PA3710



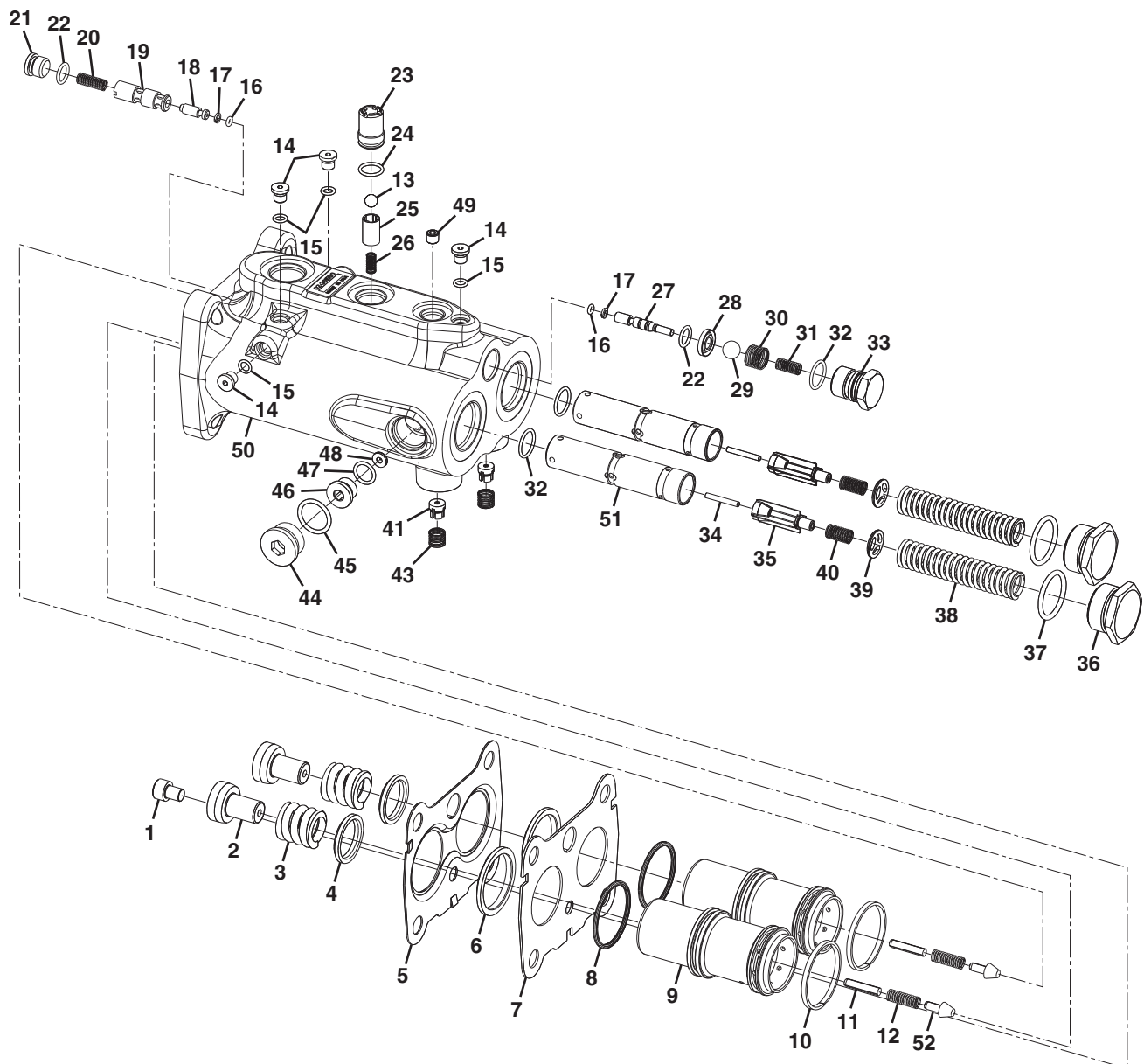
Figure 9-13 Directional Control Valves

Item	Part Number	Qty.	Description	Rev.
1	1001103151	1	UNLOADER VALVE, (includes items 2 thru 4)	D
2	70022718	1	DIFFERENTIAL PRESSURE SENSE VALVE, (torque to 60-65 lb-ft)	
	8034562	1	SEAL KIT	
3	70022717	1	RELIEF VALVE, (2700 PSI, [186 bar]), (torque to 37-41 lb-ft)	
	8032693	1	SEAL KIT	
4	70022716	1	CHECK VALVE, (180 psi [12,4 bar]), (torque to 40 lb-ft)	
	7009764	1	SEAL KIT	
5	1001103152	1	STEER SELECT VALVE, (S/N 0160037903 & After), (includes item 6)	
6	8640017	AR	O-RING	
7	8902111	1	STEER SELECT VALVE SUBPLATE	
8	8310326	2	SOCKET HD CAPSCREW, 5/16-18X1.125, (torque to 18.5-21 lb-ft)	A
9	8310327	4	SOCKET HD CAPSCREW, #10-24X1.125, (torque to 18.5-21 lb-ft)	
100	1001103149	1	SECONDARY FUNCTION MANIFOLD, (includes items 101 thru 108)	
101	70022720	1	PRESSURE REDUCING VALVE, (2500 PSI, [172 bar]), (torque to 21 lb-ft)	
	NSS	1	SEAL KIT	
102	70022719	1	PRESSURE REDUCING VALVE, (550 PSI, [38 bar]), (torque to 37-41 lb-ft)	
	NSS	1	SEAL KIT	
103	70022721	1	PRESSURE REDUCING VALVE, (650 PSI, [45 bar]), (torque to 37-41 lb-ft)	
	NSS	1	SEAL KIT	
104	91474023	1	CHECK VALVE, (torque to 23-27 lb-ft)	
	91474024	1	SEAL KIT	
105	70022723	1	SOLENOID VALVE CARTRIDGE, (torque to 23-27 lb-ft)	
	NSS	1	SEAL KIT	
106	70022724	2	SOLENOID COIL WITH INTEGRATED DIODE	
107	70022722	1	SOLENOID VALVE CARTRIDGE, (torque to 23-27 lb-ft)	
	NSS	1	SEAL KIT	
108	NSS	2	NUT, (torque to 4-6 lb-ft)	
210	8307005	3	LOCKWASHER, 3/8	
211	8307203	3	WASHER, 5/16	
217	8310525	3	HEX HD CAPSCREW, 3/8-16X1.00, GR8, (torque to 46-52 lb-ft)	



HYDRAULIC COMPONENTS

Figure 9-14 Brake Valve



PAL5171



Figure 9-14 Brake Valve

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



HYDRAULIC COMPONENTS

Figure 9-14 Brake Valve (Continued)

Item	Part Number	Qty.	Description	Rev.
50	NSS	1	HOUSING	
51	NSS	2	SPOOL	
52	70023038	2	POPPET	



Figure 9-14 Brake Valve (Continued)

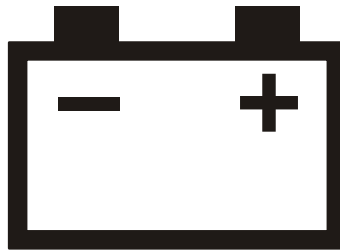
Item	Part Number	Qty.	Description	Rev.

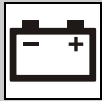


HYDRAULIC COMPONENTS

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SECTION 10 ELECTRICAL

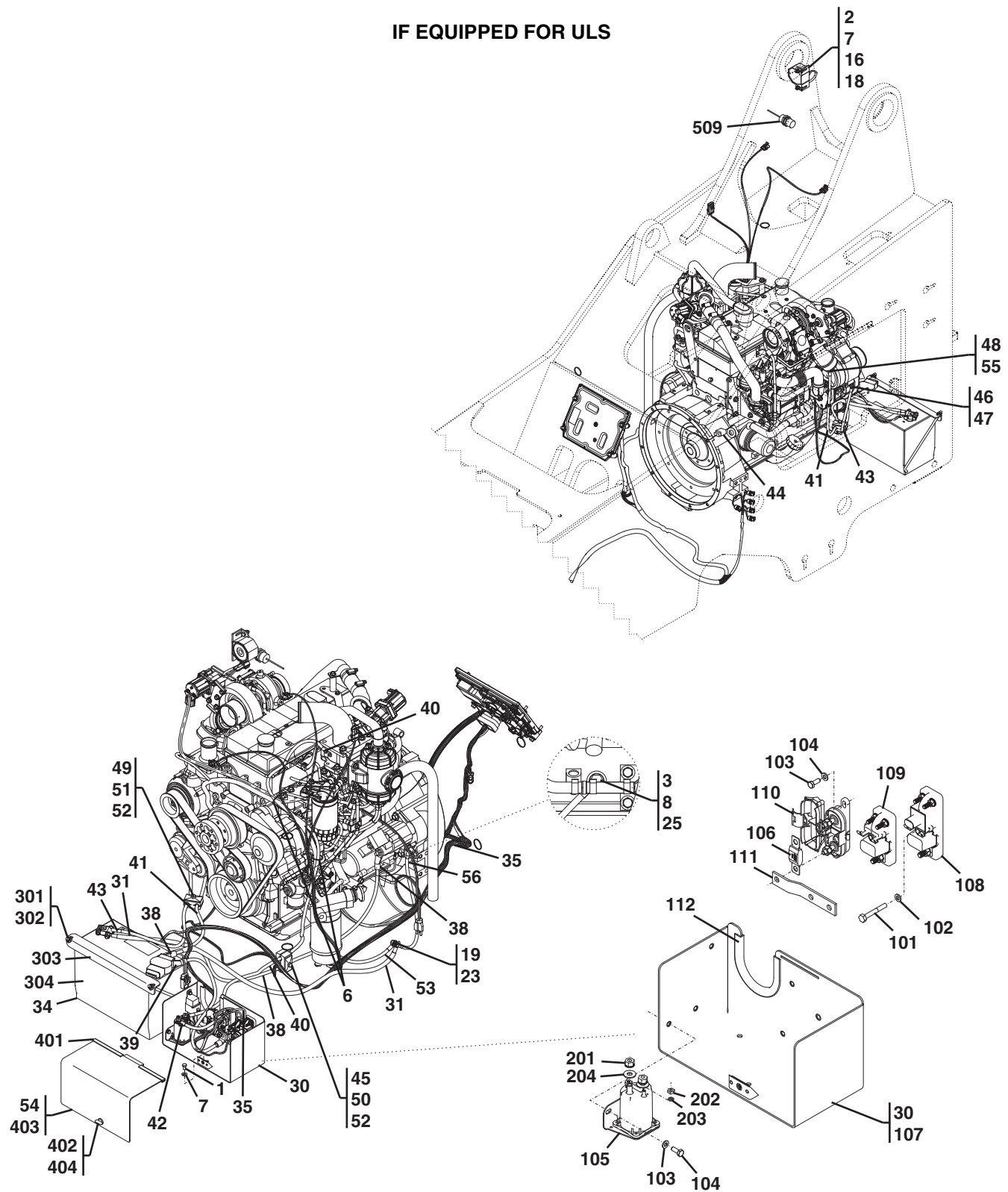




ELECTRICAL

Figure 10-1 Engine Compartment Electrical Installation

IF EQUIPPED FOR ULS



PA5420

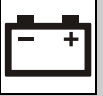
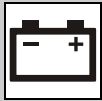


Figure 10-1 Engine Compartment Electrical Installation

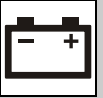
Item	Part Number	Qty.	Description	Rev.
	1001129652	Ref	ELECTRICAL INSTALLATION, (6036, if equipped for ULS) , (not available to order, see items 1 thru 56 on & items on Figure 10-2 for service)	E
	1001129651	Ref	ELECTRICAL INSTALLATION, (6042, if equipped for ULS) , (not available to order, see items 1 thru 56, 509 & items on Figure 10-2 for service)	E
1	0641404	3	HEX HD CAPSCREW, 1/4-20X1/2, GR5	
2	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
3	0761010	1	HEX HD CAPSCREW, M10X20, GR8.8, (torque to 31 lb-ft/43 Nm)	
6	4240017	7	TIE STRAP	
7	4711400	5	WASHER, 1/4	
8	4812000	1	WASHER, 10mm	
16	8270621	1	BACKUP ALARM	
18	8305624	2	HEX LOCKNUT, 1/4-20	
19	8305645	1	HEX LOCKNUT, 3/8-16, (torque to 31 lb-ft/43 Nm)	
23	8307110	1	WASHER, 3/8	
25	8310046	1	LOCKWASHER, 10mm	
30	1001127212	Ref	RELAY PANEL INSTALLATION, (includes items 101 thru 112)	D
31	1001128663	1	BATTERY CABLE, NEGATIVE	
34	1001142513	Ref	BATTERY INSTALLATION, (not available to order, see items 301 thru 304 for service)	A
35		Ref	ENGINE/CHASSIS HARNESS, (see Figure 10-7 for details)	
38	1001129768	1	STARTER POWER CABLE	
39	1001129769	1	BUSS POWER CABLE	
40	1001129795	1	GRID HEATER POWER CABLE	
41	1001129796	1	ALTERNATOR POWER CABLE	
42	1001129797	1	HTR FUSE TO HTR RELAY	D
43	1001130568	1	ALTERNATOR GROUND CABLE	
44	1001130927	1	TEMPORARY MAF/WIF HARNESS	A
45	8750027	1	TWIN CLAMP	
46	3290801	1	HEX NUT, M8X1.25	
47	4831900	1	LOCKWASHER, 8mm	
48	8305652	1	HEX NUT, M6X1	
49	8303739	1	HEX HD CAPSCREW, 0.312-18X1.25, GR5	
50	8303746	1	HEX HD CAPSCREW, 0.312-18X1.750, GR5	
51	8769126	1	TWIN CLAMP SET	D
52	8769128	2	TWIN COVER PLATE	
53	1001133172	1	ENGINE GROUND CABLE, (Before S/N 0160046471)	
54	1001134452	Ref	RELAY PANEL COVER INSTALLATION, (not available to order, see items 401 thru 404 for service)	D
55	4831700	1	LOCKWASHER, 6mm	
56	1001135710	1	STARTER GROUND CABLE	
101	0641415	2	HEX HD CAPSCREW, 1/4-20X1-7/8, GR5	
102	4761400	2	LOCKWASHER, 1/4	
103	8303545	5	HEX HD CAPSCREW, M6X14, GR8.8	
104	8307219	5	WASHER, 6mm	
105	1001117308	1	TROMBETTA RELAY, 20 AMP, (includes items 201 thru 204)	A
106	1001118245	1	FUSE, 25 AMP	
107	1001126581	1	RELAY MOUNT BRACKET	
108	1001127694	1	POWER MODULE RELY, RED	
109	1001127699	1	POWER MODULE FUSE	



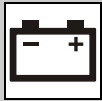
ELECTRICAL

Figure 10-1 Engine Compartment Electrical Installation (Continued)

Item	Part Number	Qty.	Description	Rev.
110	1001127700	1	AMG FUSE HOLDER	
111	1001129615	1	BUS CONNECTION BAR	
112	90206196	9 in	TRIM LOK	
201	3300220	2	SPEC WASHER NUT	
202	3321001	2	HEX NUT, #10-32	
203	4761000	2	LOCKWASHER, #10	
204	1001111424	2	COPPER WASHER, 0.312	
301	77143006	2	WHIZ LOCK NUT, 5/16-18	
302	91081640	2	BATTERY HOLD DOWN BOLT	
303	91401281	1	BATTERY HOLD DOWN BRACKET	
304	0400075	1	12V BATTERY	
401	90206196	9 in	VINYL TRIM	
402	1001135770	1	PUSH-ON RETAINER	
403	1001127142	1	RELAY PANEL COVER	
404	1001135777	1	WING HEAD FASTNER ASSEMBLY	
509	7099882	1	BOOM SENSOR, (6042)	

**Figure 10-1 Engine Compartment Electrical Installation (Continued)**

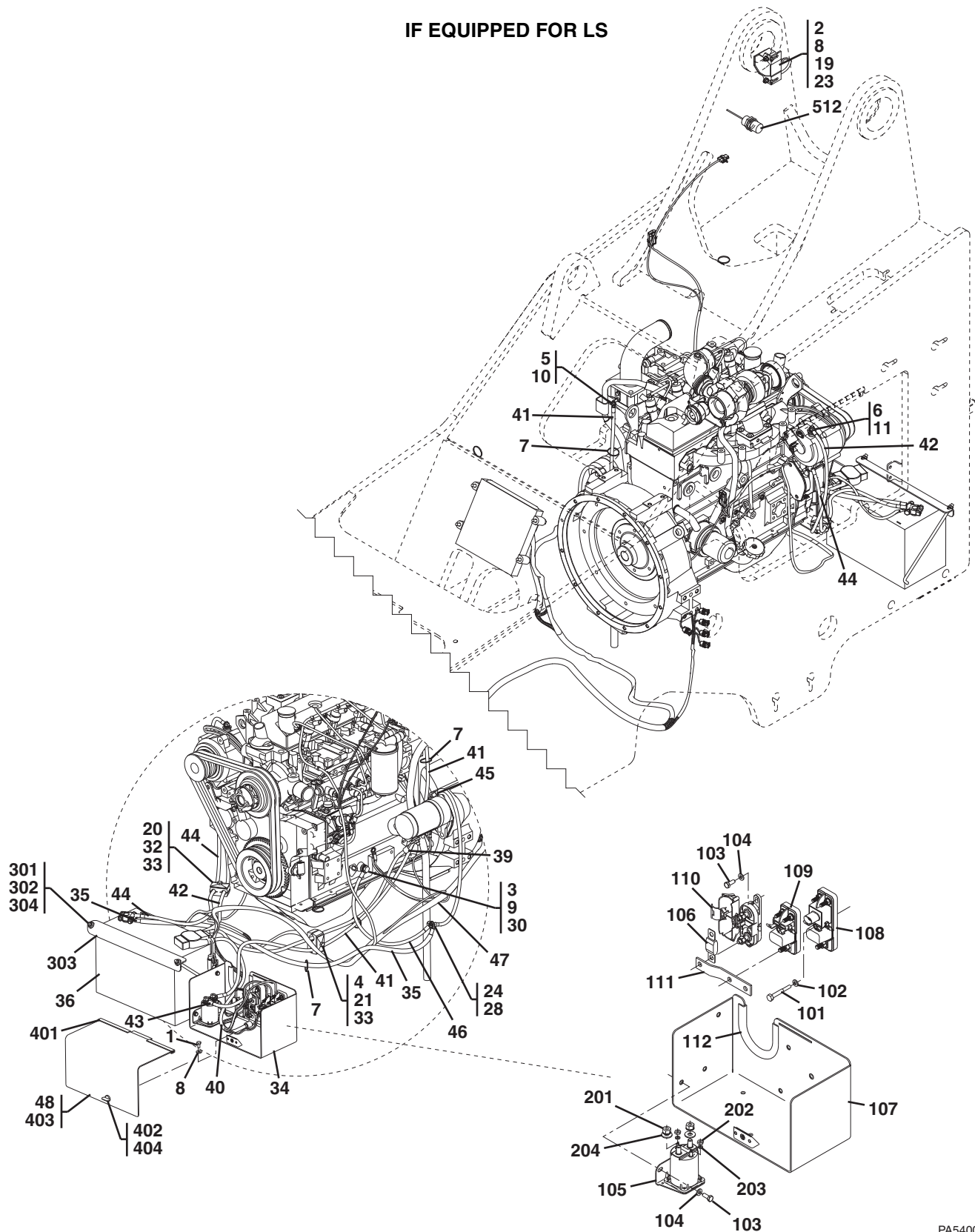
Item	Part Number	Qty.	Description	Rev.



ELECTRICAL

Figure 10-1 Engine Compartment Electrical Installation

IF EQUIPPED FOR LS



PA5400

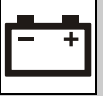
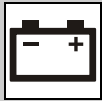


Figure 10-1 Engine Compartment Electrical Installation

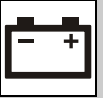
Item	Part Number	Qty.	Description	Rev.
	1001132988	Ref	ELECTRICAL INSTALLATION, (if equipped for LS), (6036), (not available to order, see items 1 thru 48 on Figure 10-1 and items on Figure 10-2 for service)	B
	1001132987	Ref	ELECTRICAL INSTALLATION, (if equipped for LS), (6042), (not available to order, see items 1 thru 48 and item 512 on Figure 10-1 and items on Figure 10-2 for service)	B
1	0641404	3	HEX HD CAPSCREW, 1/4-20X1/2, GR5	
2	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
3	0761012	1	HEX HD CAPSCREW, M10X25, GR8.8, (torque to 31.71 lb-ft/43Nm)	
4	1320199	1	TWIN CLAMP SET	
5	3290601	1	HEX NUT, M6X1	
6	3290801	1	HEX NUT, M8X1.25	
7	4240017	7	TIE STRAP	
8	4711400	5	WASHER, 1/4	
9	4812000	1	WASHER, 10mm	
10	4831700	1	SPRING LOCKWASHER, 6mm	
11	4831900	1	SPRING LOCKWASHER, 8mm	
19	8270621	1	BACK UP ALARM	
20	8303739	1	HEX HD CAPSCREW, 0.312-18X1.25, GR5	
21	8303746	1	HEX HD CAPSCREW, 0.312-18X1.750, GR5	
23	8305624	2	HEX LOCKNUT, 0.250-20	
24	8305645	1	HEX LOCKNUT, 0.375-16, (torque to 31.71 lb-ft/43Nm)	
28	8307110	1	NARROW WASHER, 0.375	
30	8310046	1	LOCK WASHER, M10	
32	8769126	1	TWIN CLAMP SET	
33	8769128	2	TWIN COVER PLATE	
34	1001127212	1	RELAY PANEL INSTALL, (includes items 101 thru 112)	D
35	1001128663	1	BATTERY CABLE, NEGATIVE	
36	1001128783	1	BATTERY INSTALL, (includes items 301 thru 304)	A
39	1001129768	1	STARTER POWER CABLE	
40	1001129769	1	BUSS POWER CABLE	
41	1001129795	1	GRID HEATER POWER CABLE	
42	1001129796	1	ALTERNATOR POWER CABLE	
43	1001129797	1	HTR FUSE TO HTR RELAY	
44	1001130568	1	ALTERNATOR GROUND CABLE	
45	1001133171	1	STARTER GROUND CABLE	
46	1001133172	1	ENGINE GROUND CABLE	
47		Ref	ENGINE/CHASSIS HARNESS, (see Figure 10-7 for details)	
48	1001134452	1	RELAY PANEL COVER ASSY, (includes items 401 thru 404)	D
101	0641415	2	HEX HD CAPSCREW, 1/4-20X1-7/8, GR5	
102	4761400	2	LOCKWASHER, 1/4	
103	8303545	5	HEX HD CAPSCREW, M6X1X14, GR8.8	
104	8307219	5	WASHER, M6	
105	1001117308	1	TROMBETTA RELAY, 20 AMP, (includes items 201 thru 204)	A
106	1001118245	1	FUSE, 25 AMP	
107	1001126581	1	RELAY MOUNT BRACKET	
108	1001127694	1	POWER MODULE RELY, RED	
109	1001127699	1	POWER MODULE FUSE	
110	1001127700	1	AMG FUSE HOLDER	
111	1001129615	1	BUS CONNECTION BAR	



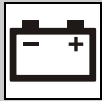
ELECTRICAL

Figure 10-1 Engine Compartment Electrical Installation (Continued)

Item	Part Number	Qty.	Description	Rev.
112	90206196	9 in	TRIM LOK	
201	3300220	2	SPEC WASHER NUT	
202	3321001	2	HEX NUT, #10-32	
203	4761000	2	LOCKWASHER, #10	
204	1001111424	2	COPPER WASHER, 0.312	
301	77143006	2	WHIZ LOCK NUT, 5/16-18	
302	91081640	2	BATTERY HOLD DOWN BOLT	
303	91401281	1	BATTERY HOLD DOWN BRACKET	
304	1001101043	1	BATTERY, GROUP 31, 12 VOLT	
401	90206196	9 in	VINYL TRIM	
402	1001135770	1	PUSH-ON RETAINER	
403	1001127142	1	RELAY PANEL COVER	
404	1001135777	1	WING HEAD FASTNER ASSEMBLY	
512	7099882	1	BOOM SENSOR, (6042)	

**Figure 10-1 Engine Compartment Electrical Installation (Continued)**

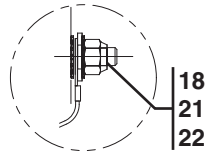
Item	Part Number	Qty.	Description	Rev.



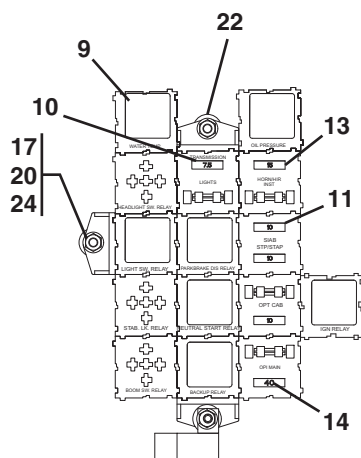
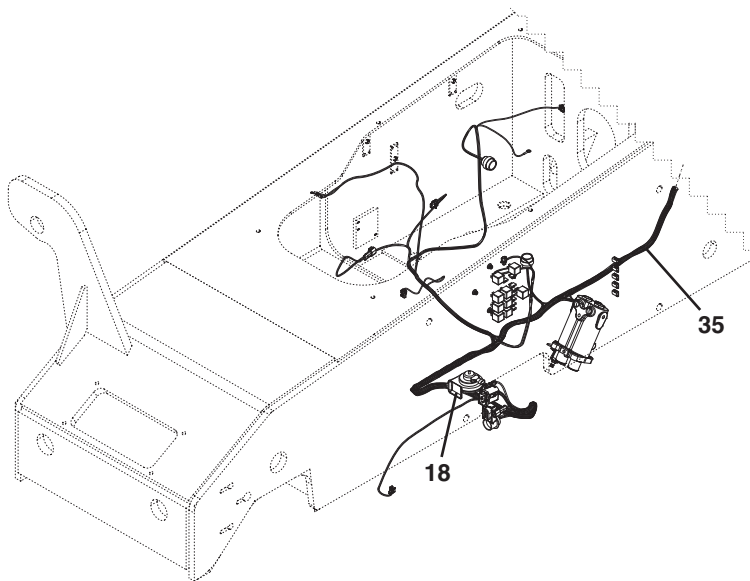
ELECTRICAL

Figure 10-2 Cab Electrical Installation

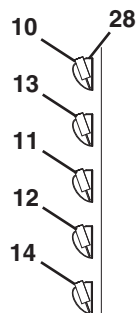
IF EQUIPPED FOR ULS



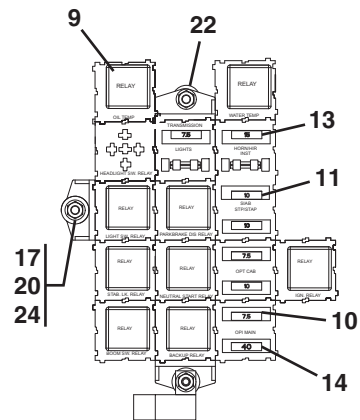
CAB GROUNDING DETAIL



6036
FUSE/RELAY PANEL



SPARE FUSES



6042
FUSE/RELAY PANEL

PA5430

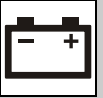
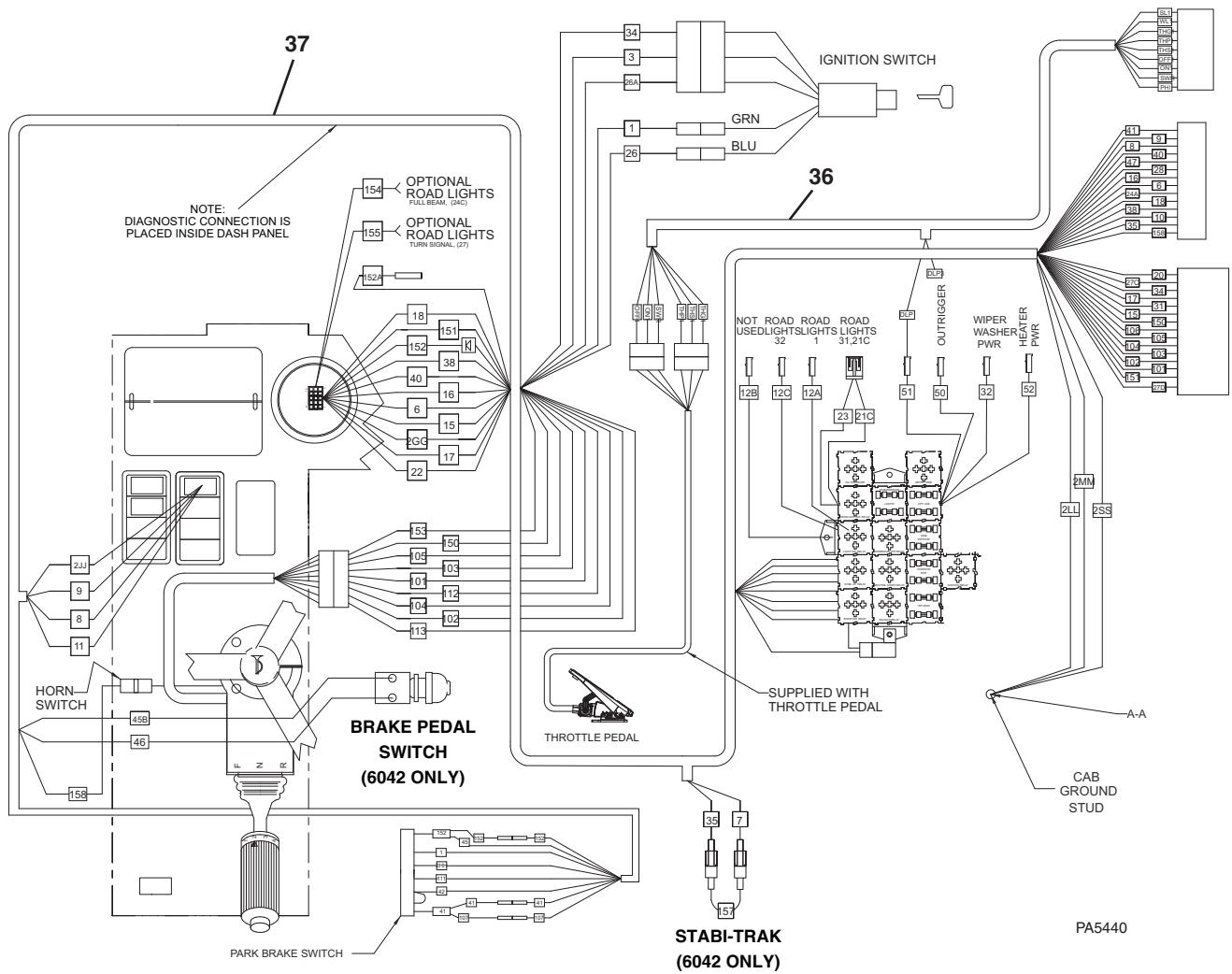
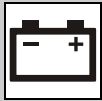


Figure 10-2 Cab Electrical Installation (Continued)

IF EQUIPPED FOR ULS



CAB ELECTRICAL DETAIL



ELECTRICAL

Figure 10-2 Cab Electrical Installation

Item	Part Number	Qty.	Description	Rev.
	1001129652	Ref	ELECTRICAL INSTALLATION, (if equipped for ULS), (6036), (not available to order, see items on Figure 10-1 and items 9 thru 37 on Figure 10-2 for service)	C
	1001129651	Ref	ELECTRICAL INSTALLATION, (if equipped for ULS), (6042), (not available to order, see items on Figure 10-1 and items 9 thru 37 on for service)	C
9	8225119	7	SEALED RELAY, (6036)	
	8225119	9	SEALED RELAY, (6042)	
10	8229233	2	FUSE, 7.5 AMP	
11	8229234	4	FUSE, 10 AMP	
12	8229235	1	FUSE, 20 AMP	
13	8229237	2	FUSE, 15 AMP	
14	8229238	2	FUSE, 40 AMP	
15	8270620	1	SIGNAL HORN	
17	8305002	3	HEX NUT, #10-24	
18	8305624	1	HEX LOCKNUT, 0.250-20	
20	8307003	3	LOCKWASHER, #10	
21	8307027	2	LOCK WASHER, EXTERNAL TOOTH	
22	8307106	4	WASHER, 0.312	
24	8307111	3	WASHER, #10	
28	8582007	5	SPARE FUSE CLIP	
35		Ref	ENGINE/CHASSIS HARNESS, (see Figure 10-7 for details)	
36		Ref	DASH/THROTTLE HARNESS, (see Figure 10-9 for details)	
37		Ref	CAB HARNESS, (see Figure 10-8 for details)	

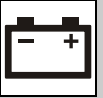
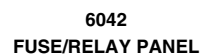


Figure 10-2 Cab Electrical Installation (Continued)

Item	Part Number	Qty.	Description	Rev.



IF EQUIPPED FOR LS

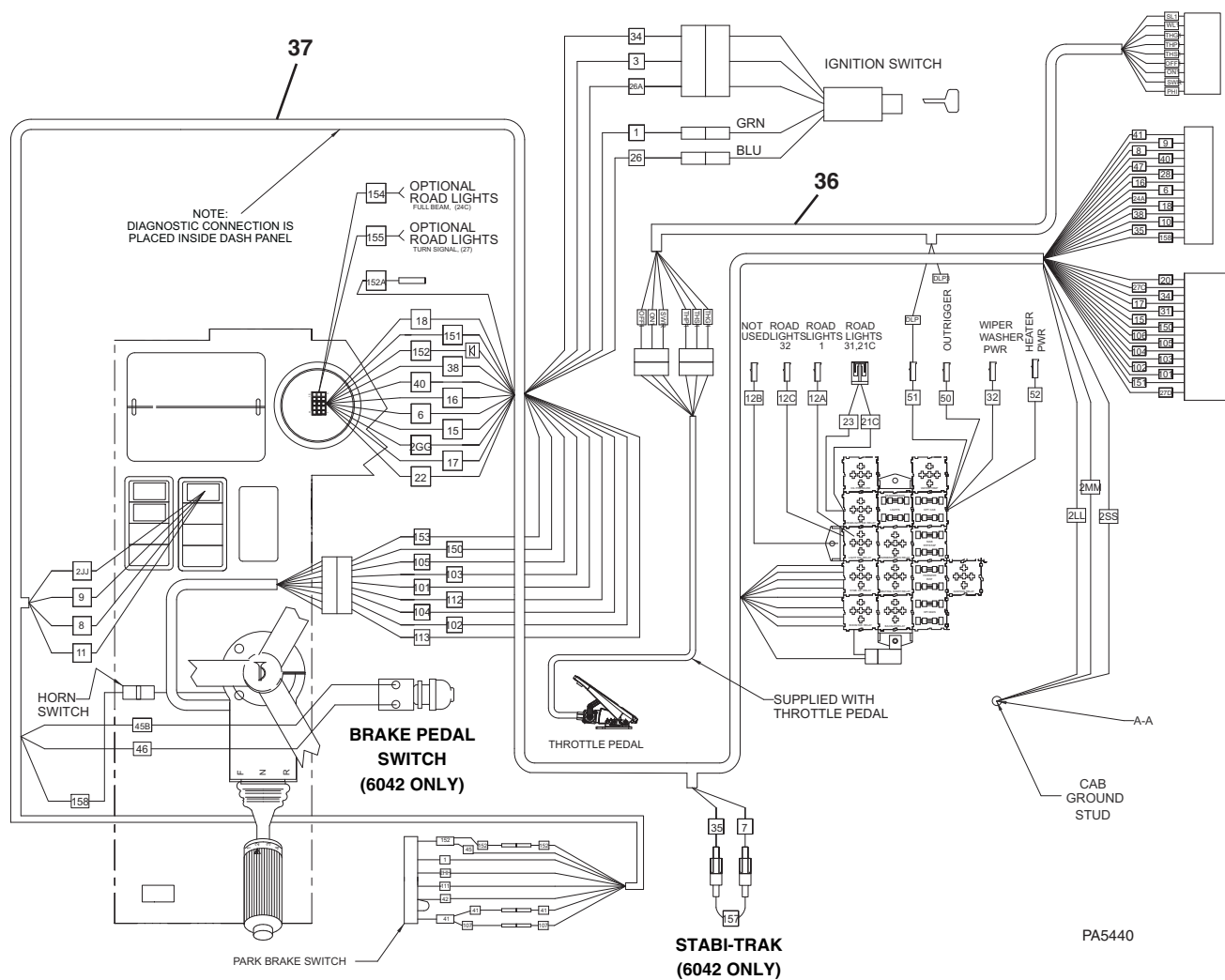


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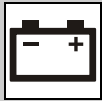


Figure 10-2 Cab Electrical Installation (Continued)

IF EQUIPPED FOR LS



CAB ELECTRICAL DETAIL



ELECTRICAL

Figure 10-2 Cab Electrical Installation

Item	Part Number	Qty.	Description	Rev.
	1001132988	Ref	ELECTRICAL INSTALLATION, (if equipped for LS), (6036), (not available to order, see items on Figure 10-1 and items 12 thru 47 on Figure 10-2 for service)	B
	1001132987	Ref	ELECTRICAL INSTALLATION, (if equipped for LS), (6042), (not available to order, see items on Figure 10-1 and items 12 thru 47 on Figure 10-2 for service)	B
12	8225119	7	SEALED RELAY, (6036)	
	8225119	9	SEALED RELAY, (6042)	
13	8229233	2	FUSE, 7.5 AMP	
14	8229234	4	FUSE, 10 AMP	
15	8229235	1	FUSE, 20 AMP	
16	8229237	2	FUSE, 15 AMP	
17	8229238	2	FUSE, 40 AMP	
18	8270620	1	SIGNAL HORN	
22	8305002	3	HEX NUT, #10-24	
23	8305624	1	HEX LOCKNUT, 0.250-20	
25	8307003	3	LOCKWASHER, #10	
26	8307027	2	LOCK WASHER, EXTERNAL TOOTH	
27	8307106	4	WASHER, 0.312	
29	8307111	3	WASHER, #10	
31	8582007	5	SPARE FUSE CLIP	
37		Ref	DASH/THROTTLE HARNESS, (see Figure 10-9 for details)	
38		Ref	CAB HARNESS, (see Figure 10-8 for details)	
47		Ref	ENGINE/CHASSIS HARNESS, (see Figure 10-7 for details)	

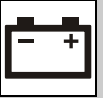
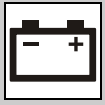


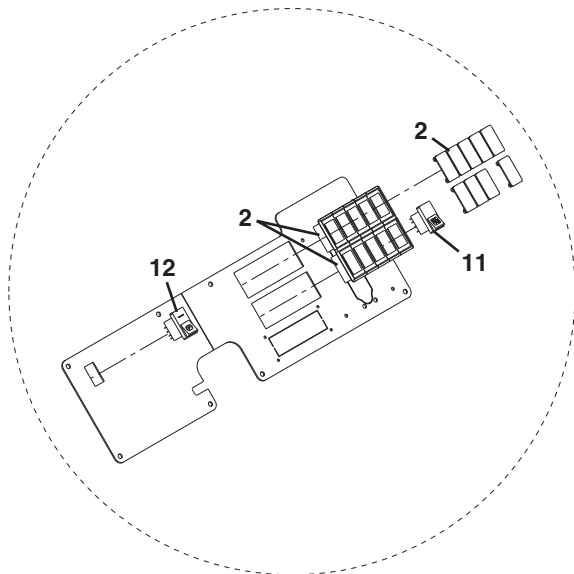
Figure 10-2 Cab Electrical Installation (Continued)

Item	Part Number	Qty.	Description	Rev.

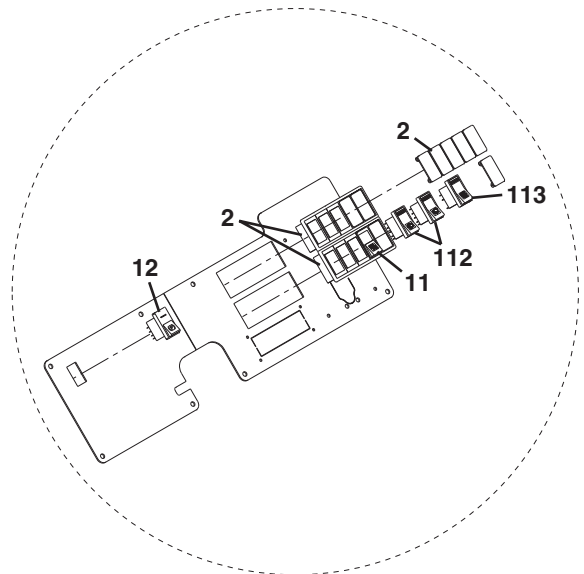


ELECTRICAL

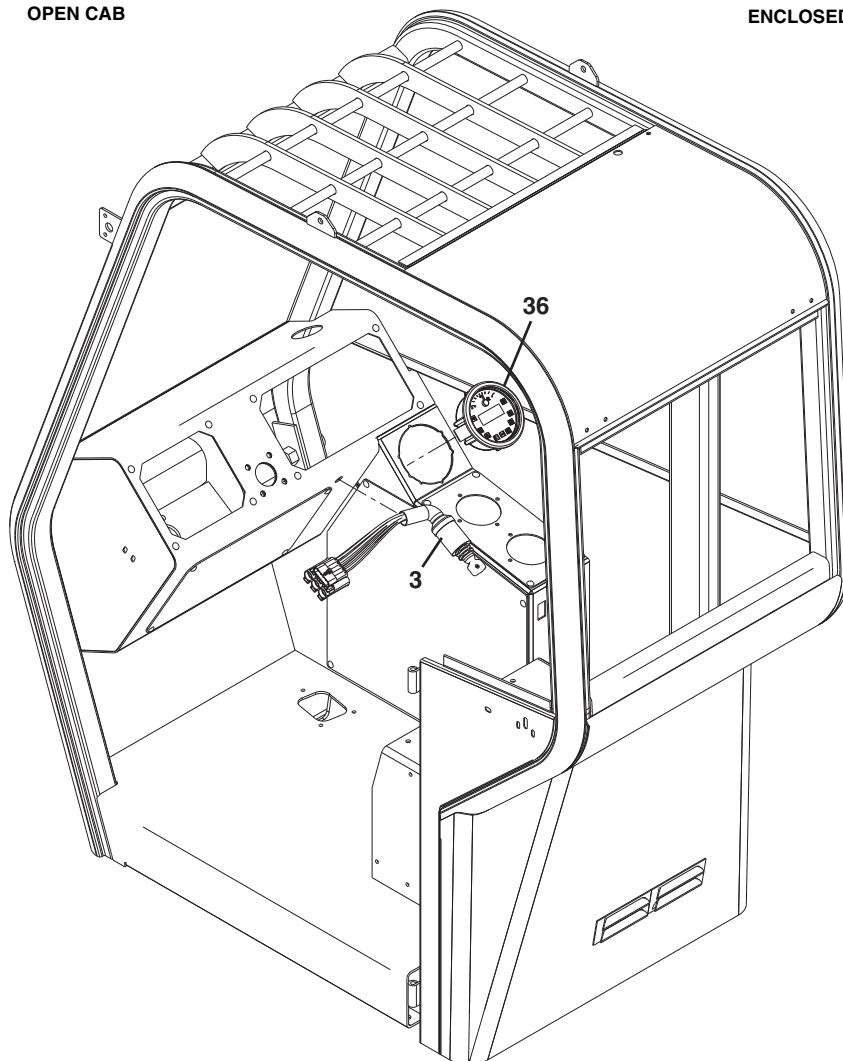
Figure 10-3 Cab Switches



OPEN CAB



ENCLOSED CAB



PA5020

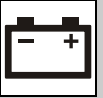
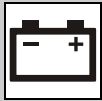


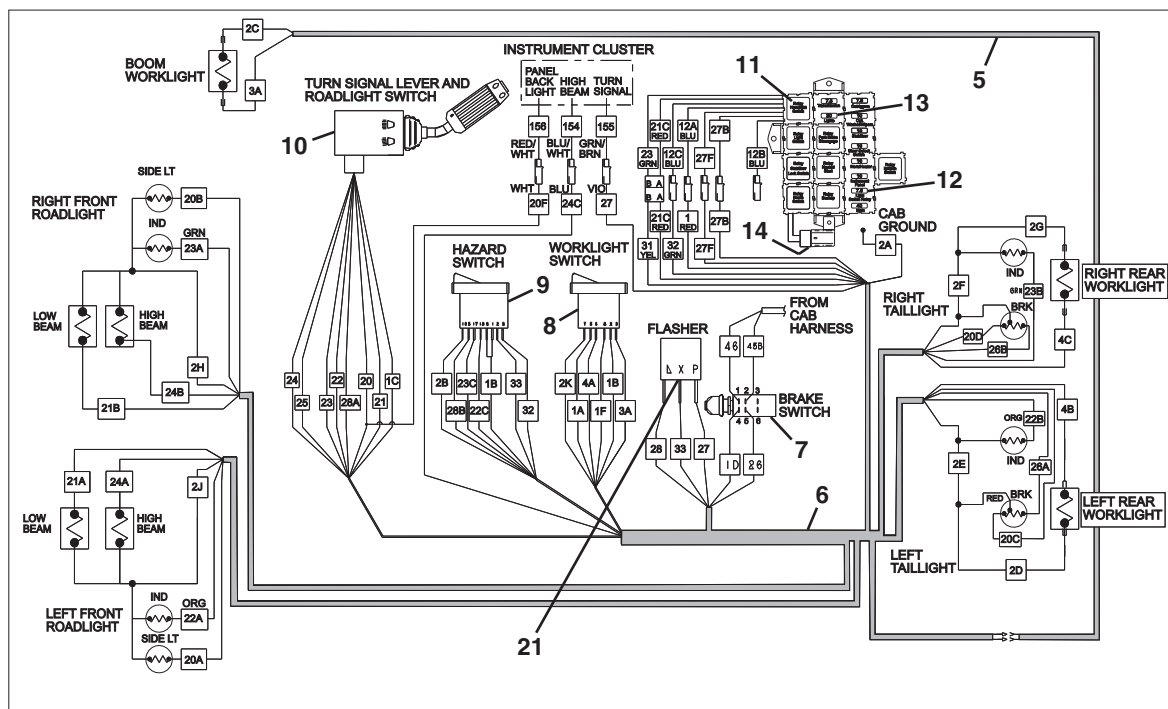
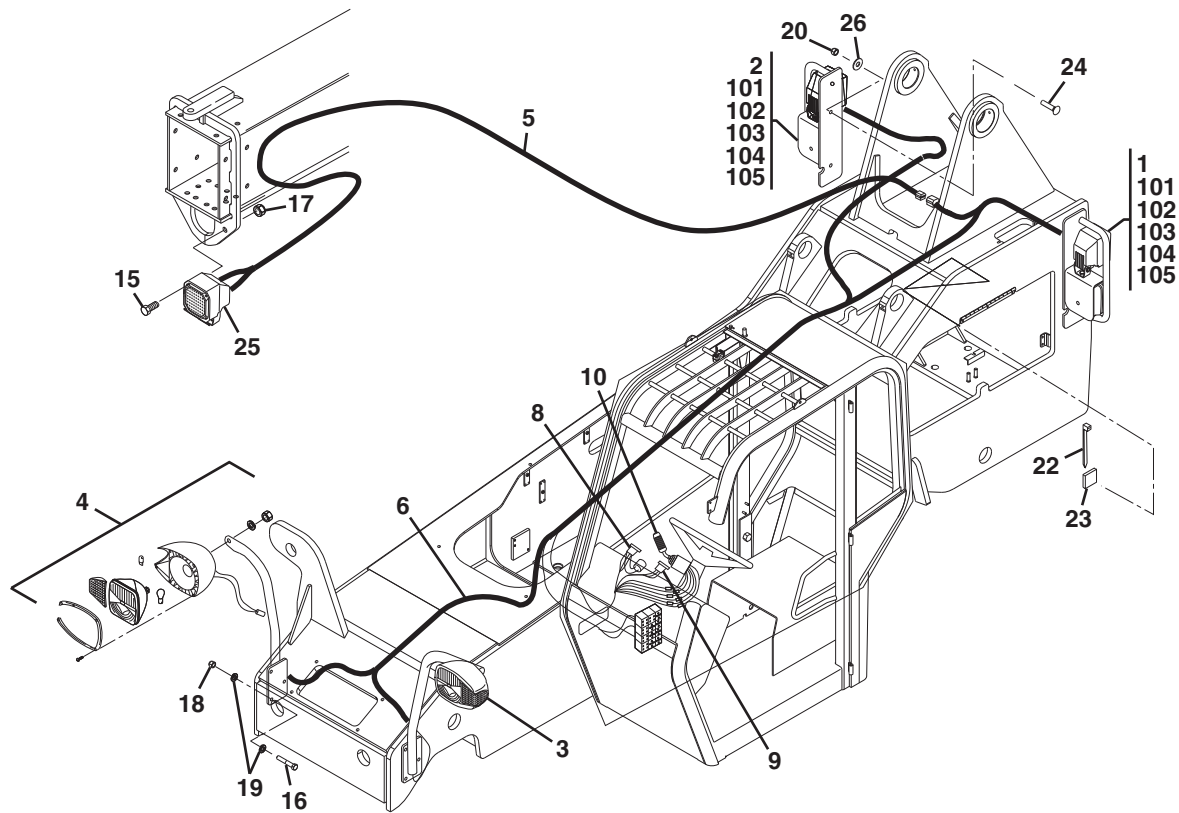
Figure 10-3 Cab Switches

Item	Part Number	Qty.	Description	Rev.
2	4360569	2	BEZEL SWITCH	
3	4360690	1	IGNITION SWITCH	
	8035807	AR	KEY, (with cover)	
11	8223037	1	STEER SELECT SWITCH	
12	8223054	1	PARK BRAKE SWITCH	
36	1001126864	1	INSTRUMENT CLUSTER, (includes hourmeter)	
112	8223043	2	WINDSCREEN WIPER SWITCH	
113	8223044	1	WINDSCREEN WASHER SWITCH	



ELECTRICAL

Figure 10-4 Road Lighting Installation



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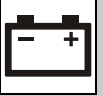
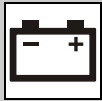


Figure 10-4 Road Lighting Installation

Item	Part Number	Qty.	Description	Rev.
	1001130894	Ref	ROAD LIGHTING INSTALLATION, (not available to order, see items 1 thru 26 for service)	A
1	7150679	1	LH ROADLIGHT ASSY, (includes items 101 thru 105)	C
2	7150689	1	RH ROADLIGHT ASSY, (includes items 101 thru 105)	C
3	7150699	1	LH ROADLIGHT BRACKET ASSY	
	7150685	1	LH ROADLIGHT BRACKET	
	7150702	1	FRONT ROADLIGHT, (torque nut to 7-15 lb-ft/9-20 Nm)	
	8036216	6	HEADLIGHT LENS SCREW	
	8036212	1	HEADLIGHT LENS	
	8036213	1	HEADLIGHT BULB, 12V 60/55W	
	8036214	1	BLINKER BULB, 12V 5W	
	8036215	1	WIRING HARNESS, (includes 6-way connector)	
	8036209	1	LEFT AMBER HEADLIGHT LENS	
4	7150716	1	RH ROADLIGHT BRACKET ASSY	
	7150717	1	RH ROADLIGHT BRACKET	
	7150703	1	FRONT ROADLIGHT, (torque nut to 7-15 lb-ft/9-20 Nm)	
	8036210	1	RIGHT AMBER HEADLIGHT LENS	
	8036216	6	HEADLIGHT LENS SCREW	
	8036212	1	HEADLIGHT LENS	
	8036213	1	HEADLIGHT BULB, 12V, 60/55W	
	8036214	1	BLINKER BULB, 12V, 5W	
	8036215	1	WIRING HARNESS, (includes 6-way connector)	
5	7150730	1	WORKLIGHT HARNESS	
6	7150741	1	WIRE HARNESS	I
7	8223057	1	BRAKE LIGHT SWITCH	
8	8223059	1	WORKLIGHT SWITCH	
9	8223060	1	HAZARD SWITCH	
10	8223073	1	TURN SIGNAL LEVER	
11	8225119	1	RELAY	
12	8229233	1	FUSE, 7.5AMP	
13	8229235	1	FUSE, 20AMP	
14	8229238	1	FUSE, 40AMP	
15	8303670	1	HEX HD CAPSCREW, 5/16X1, GR8	
16	8303771	6	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5	
17	8305626	1	HEX LOCKNUT, 5/16-18	
18	8305645	6	HEX LOCKNUT, 3/8	
19	8307204	12	FLAT WASHER, 3/8	
20	8310109	4	HEX LOCKNUT, 7/16-14	
21	8500203	1	FLASHER, 12V	
22	8584001	32	TY-RAP	
23	8584018	2	TIE MOUNT	
24	88411094	4	CARRIAGE BOLT, 7/16-14X2	
25	1001096314	1	WORKLIGHT	
	8036216	4	WORKLIGHT LENS SCREW	
	8036218	1	WORKLIGHT HALOGEN BULB	
26	4751701	4	WASHER, 7/16	
101	7150681	1	LH WORKLIGHT BRACKET ASSY	
	7150680	1	RH WORKLIGHT BRACKET ASSY	
102	1001096314	1	WORKLIGHT	



ELECTRICAL

Figure 10-4 Road Lighting Installation (Continued)

Item	Part Number	Qty.	Description	Rev.
103	8036216	4	WORKLIGHT LENS SCREW	
	8036218	1	WORKLIGHT HALOGEN BULB	
	7150690	1	TAIL/INDICATOR LIGHT	
	NSS	2	TAIL LIGHT LENS SCREW	
	8036219	1	TAIL LIGHT LENS	
	8036221	1	BLINKER BULB, 12V, 21W	
	8036222	1	TAIL & BRAKE LIGHT BULB, 12V, 21/5W	
	8036220	1	WIRING HARNESS, (includes 4-way connector)	
104	8303745	1	HEX HD CAPSCREW, 5/16-18X5/8	
105	8305626	1	HEX LOCKNUT, 5/16-18	

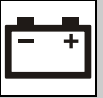
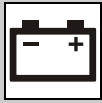


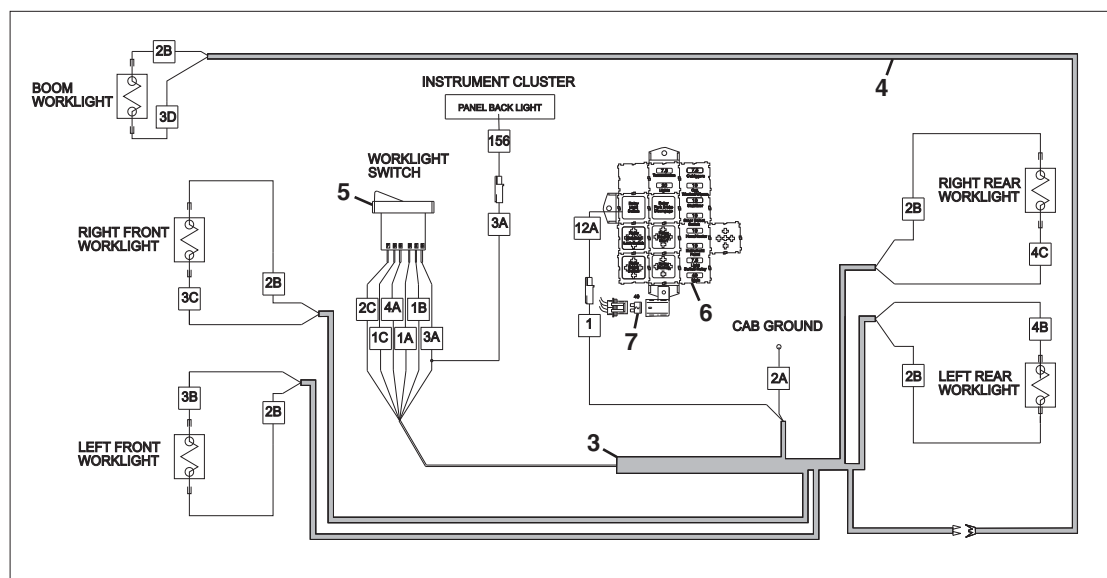
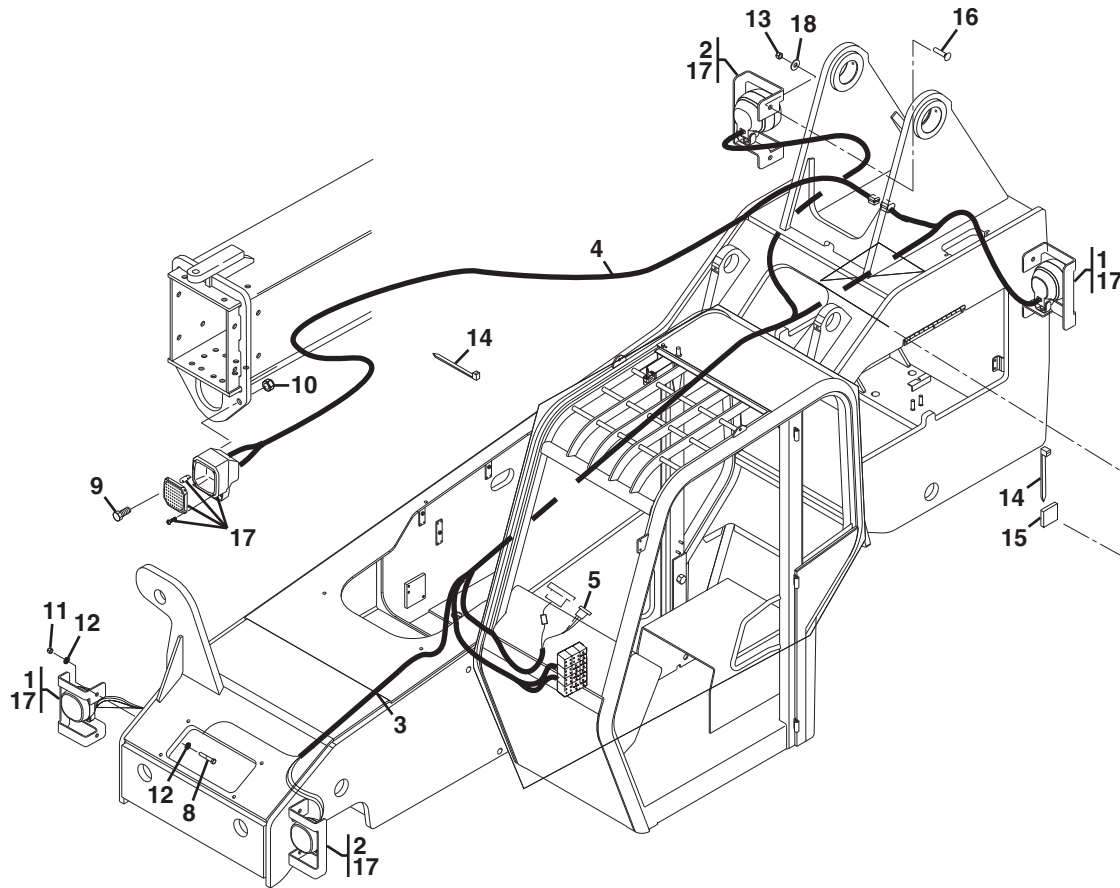
Figure 10-4 Road Lighting Installation (Continued)

Item	Part Number	Qty.	Description	Rev.



ELECTRICAL

Figure 10-5 Work Lighting Installation



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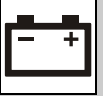


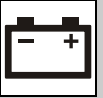
Figure 10-5 Work Lighting Installation

Item	Part Number	Qty.	Description	Rev.
	1001130896	Ref	WORK LIGHTING INSTALLATION, (not available to order, see items 1 thru 18 for service)	A
1	7150673	2	WORKLIGHT ASSY, (front right & rear left sides), (includes item 13)	D
	1001097080	2	WORKLIGHT BRACKET, (front right & rear left)	
2	7150688	2	WORKLIGHT ASSY, (front left & rear right), (includes item 13)	D
	1001097079	2	WORKLIGHT BRACKET, (front left & rear right)	
3	7150707	1	WIRE HARNESS	
4	7150730	1	BOOM WORKLIGHT HARNESS	
5	8223059	1	WORKLIGHT SWITCH	
6	8229233	1	LIGHT SWITCH FUSE, 7.5 AMP, (tan)	
7	8229238	1	WORKLIGHT FUSE, 40 AMP, (orange)	
8	8303771	4	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5	
9	8303670	1	HEX HD CAPSCREW, 5/16-18	
10	8305626	1	LOCKNUT, 5/16-18	
11	8305645	4	HEX NUT, 3/8	
12	8307204	8	FLAT WASHER, 3/8	
13	8310109	4	HEX LOCKNUT, 7/16-14	
14	8584001	32	PLASTIC TIE WRAP	
15	8584018	2	TIE MOUNT	
16	88411094	4	CARRIAGE BOLT, 7/16-14X2	
17	1001096314	1	WORKLIGHT	
	8036216	4	WORKLIGHT LENS SCREW	
	8036218	1	WORKLIGHT HALOGEN BULB	
18	4751701	4	WASHER, 7/16	

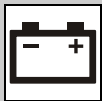


Figure 10-6 Rotating Beacon Installation



**Figure 10-6 Rotating Beacon Installation**

Item	Part Number	Qty.	Description	Rev.
	1001130897	1	ROTATING BEACON INSTALLATION, OPEN CAB, (includes all items)	A
	1001130898	1	ROTATING BEACON INSTALLATION, CLOSED CAB, (includes items 1 thru 6)	A
1	0100009	AR	SEALANT	
2	8223038	1	BEACON SWITCH	
3	8229233	1	FUSE, 7.5 AMP	
4	8500066	1	ROTATING BEACON LIGHT	
5	7139263	1	WIRE ASSY	
6	7139269	1	WIRE ASSY FROM SWITCH	
7	7139267	1	UPPER WIRE DUCT	
8	7139268	1	LOWER WIRE DUCT	



ELECTRICAL

Figure 10-7 Engine Harness

IF EQUIPPED FOR ULS

X73 TO ENG_BULK2_15F				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A1	YEL	5	16 AWG	GXL
A2	GRY	17	16 AWG	GXL
A3	BLK	20	12 AWG	GXL
A4	RED	27C	12 AWG	GXL
A5	ORN	31	16 AWG	GXL
B1	RED	34	16 AWG	GXL
B2	BLU	106	16 AWG	GXL
B3	VIO	150(S8)	16 AWG	GXL
B4	YEL	161	16 AWG	GXL
B5	RED	27D	12 AWG	GXL
C1	BRN	101(S5)	16 AWG	GXL
C2	PNK	102(S2)	16 AWG	GXL
C3	BLU	103(S3)	16 AWG	GXL
C4	YEL	104(S1)	16 AWG	GXL
C5	GRN	105(S4)	16 AWG	GXL

X4 TO LOGIC CONN				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	RED	49	16 AWG	GXL
B	ORN	23	16 AWG	GXL

X1 TO ECM_BULK_23S				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLK	APS SIGNAL 2	16 AWG	GXL
B	RED	APS SUPPLY 2	16 AWG	GXL
C	WHT	APS GROUND 2	16 AWG	GXL
H	BLK	APS SUPPLY 1	16 AWG	GXL
J	BLK	APS SIGNAL 1	16 AWG	GXL
K	BLK	APS GROUND 1	16 AWG	GXL

X2 TO ENG_BULK3_IN				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	160	12 AWG	GXL

X301 TO LOWER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
4	GRN	105B(S5)	16 AWG	GXL
5	BRN	101B(S5)	16 AWG	GXL
6	GRN	150B(S8)	16 AWG	GXL
7	BLK	2H	16 AWG	GXL

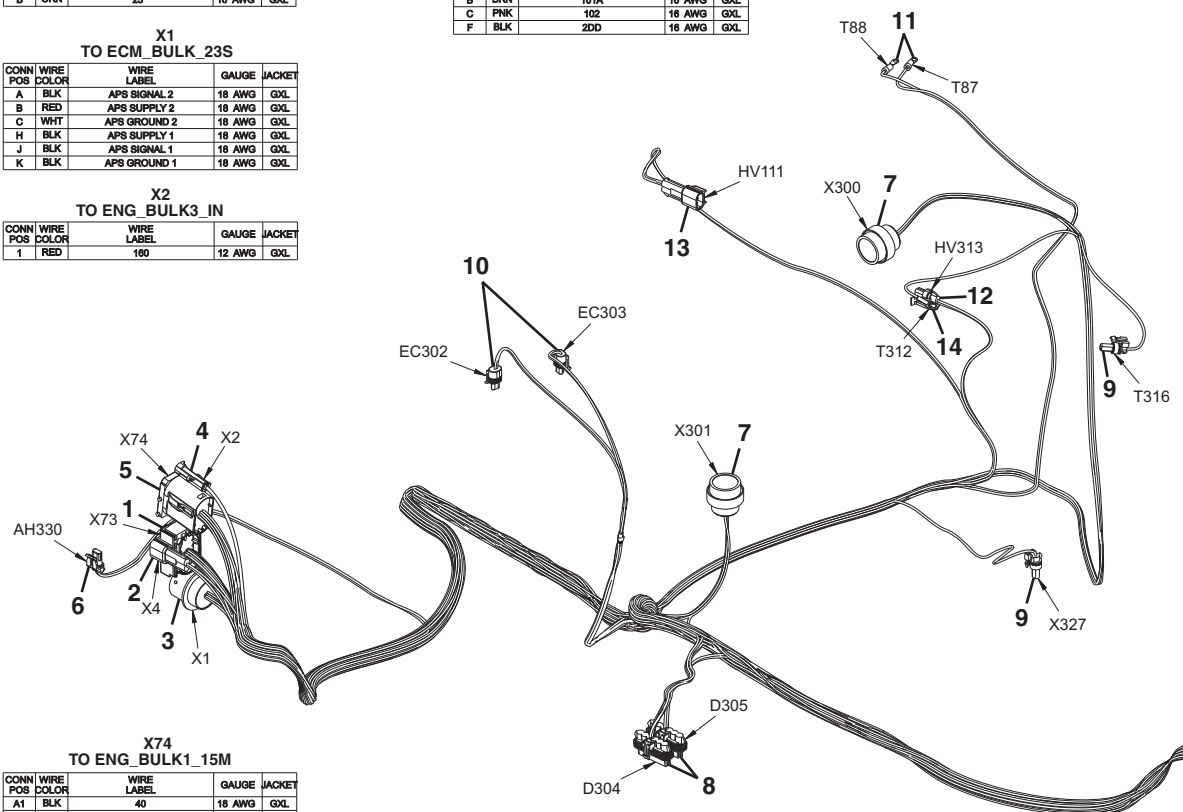
D304 TO VP2				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	GRN	150A(S8)	16 AWG	GXL
B	GRN	105A(S4)	16 AWG	GXL
C	YEL	104A	16 AWG	GXL
F	BLK	2D	16 AWG	GXL

D305 TO VP1				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLU	103A	16 AWG	GXL
B	BRN	101A	16 AWG	GXL
C	PNK	102	16 AWG	GXL
F	BLK	2DD	16 AWG	GXL

T87 TO FUEL SENDER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	GRY	17	16 AWG	GXL

T88 TO FUEL SENDER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	2A	16 AWG	GXL

HV313 TO STEER MODE VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	GRN	8	16 AWG	GXL
B	BLK	2C	16 AWG	GXL



X74 TO ENG_BULK1_15M				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A1	BLK	40	16 AWG	GXL
A2	WHT	41	16 AWG	GXL
A3	ORN	47	16 AWG	GXL
A4	BLK	20A	12 AWG	GXL
A5	WHT	168	16 AWG	GXL
B1	GRN	16	16 AWG	GXL
B2	BLK	24A	16 AWG	GXL
B3	WHT	28	16 AWG	GXL
B4	BRN	35	16 AWG	GXL
B5	YEL	38	16 AWG	GXL
C1	GRN	6	16 AWG	GXL
C2	GRN	8	16 AWG	GXL
C3	GRN	9	16 AWG	GXL
C4	TAN	10	16 AWG	GXL
C5	BRN	16	16 AWG	GXL

AH330 TO HORN				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	WHT	168	16 AWG	GXL
B	BLK	24A	16 AWG	GXL

X300 TO UPPER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	YEL	104B(S1)	16 AWG	GXL
2	YEL	120B(S2)	16 AWG	GXL
3	BLU	103B(S3)	16 AWG	GXL
7	BLK	2J	16 AWG	GXL

T316 TO TRANS TEMP SW				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	GRN	18	16 AWG	GXL

X327 TO HYD TEMP SW				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	YEL	161	16 AWG	GXL

EC302 TO SECONDARY FUNCTION VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLU	41A	16 AWG	GXL
B	BLK	2E	16 AWG	GXL

EC303 TO SECONDARY FUNCTION VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLU	41B	16 AWG	GXL
B	BLK	2F	16 AWG	GXL

HV111 TO STEER MODE VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	GRN	8	16 AWG	GXL
B	BLK	2B	16 AWG	GXL

T312 TO TRANS GND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	2G	16 AWG	GXL

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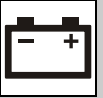


Figure 10-7 Engine Harness (Continued)

IF EQUIPPED FOR ULS

X52 TO STABILTRAK				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLK	40	18 AWG	GXL
B	BLK	2K	18 AWG	GXL

X53 TO STABILTRAK				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	WHT	28A	18 AWG	GXL
B	BLK	2L	18 AWG	GXL

X54 TO STABILTRAK				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	WHT	47A	18 AWG	GXL
B	BLK	2M	18 AWG	GXL

X55 TO STABILTRAK				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	WHT	47B	18 AWG	GXL
B	BLK	2N	18 AWG	GXL

X56 TO STAB_FLOAT_B				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	WHT	28B	18 AWG	GXL
B	BLK	2P	18 AWG	GXL

X325 TO BACK UP ALARM				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	ORN	31	18 AWG	GXL
B	BLK	2X	18 AWG	GXL

T57 TO ENG_GND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	20C	12 AWG	GXL
1	BLK	20E	12 AWG	GXL

T278 TO BATT+				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	ECM BATT	12 AWG	GXL

T284 TO ENG BLOCK GND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	CASE GND	10 AWG	GXL
1	BLK	ECM GND 5	12 AWG	GXL

T61 TO PWR BUSS				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	27D	12 AWG	GXL

T328 TO PWR BUSS				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	180	12 AWG	GXL
1	RED	27C	12 AWG	GXL

X324 TO ALTERNATOR				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
2	YEL	5	18 AWG	GXL

EC291 TO STARTER ENGINE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	181	10 AWG	GXL

SN112 TO BOOM SENSOR				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BRN	35	18 AWG	GXL
B	TAN	10	18 AWG	GXL
C	BLK	2T	18 AWG	GXL

SN113 TO BOOM EXTEND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	RED	49	18 AWG	GXL
B	ORN	23	18 AWG	GXL
C	BLK	2R	18 AWG	GXL

EC292 TO COOLANT LEVEL				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	ORG	SENSOR SUPP2	18 AWG	GXL
B	ORG	COOLANT LVL	18 AWG	GXL
C	BLK	OEM SEN RTN	18 AWG	GXL

FC314 TO ATO FUSE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	ECM BATT	12 AWG	GXL
2	RED	ECM BATT	12 AWG	GXL

RL109-85 TO GRID HTR RLY				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	OUTPUT RTN 2	18 AWG	GXL

RL109-86 TO GRID HTR RLY				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	GHR	18 AWG	GXL

X321 TO STRT LOCK OUT				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
30	BLU	108	18 AWG	GXL
85	BLK	OUTPUT RTN 1	18 AWG	GXL
86	ORG	STRT LOCK	18 AWG	GXL
87	ORN	STRT	18 AWG	GXL

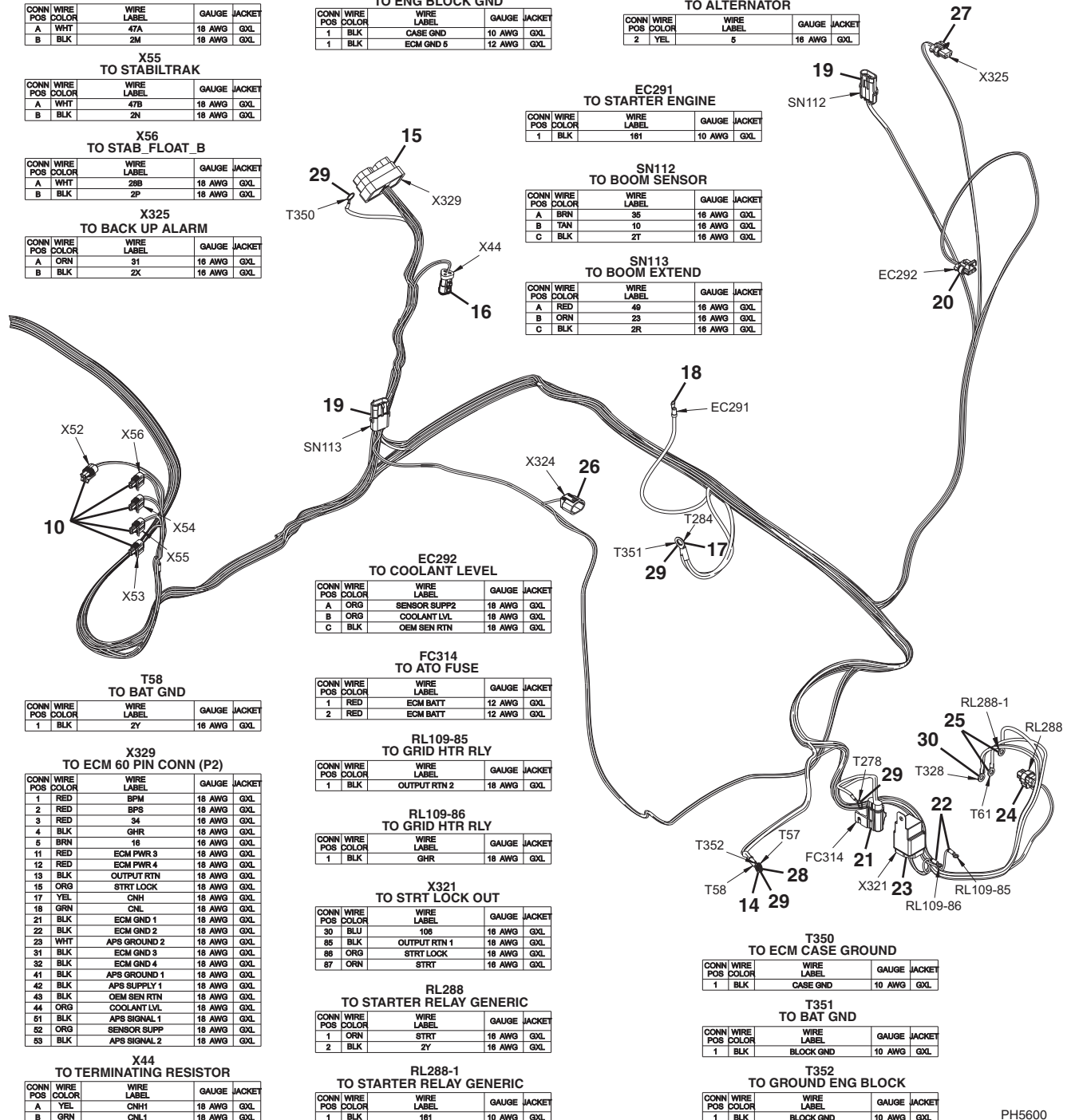
RL288 TO STARTER RELAY GENERIC				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	ORN	STRT	18 AWG	GXL
2	BLK	2Y	18 AWG	GXL

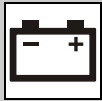
RL288-1 TO STARTER RELAY GENERIC				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	181	10 AWG	GXL

T350 TO ECM CASE GROUND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	CASE GND	10 AWG	GXL

T351 TO BAT GND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	BLOCK GND	10 AWG	GXL

T352 TO GROUND ENG BLOCK				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	BLOCK GND	10 AWG	GXL





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Figure 10-7 Engine Harness

Item	Part Number	Qty.	Description	Rev.
1	1001129759	1	ENGINE HARNESS, (IF EQUIPPED FOR ULS), (includes all items)	G
	8220927	1	CONNECTOR	
	1001116728	12	TERMINAL	
	1001116747	3	TERMINAL	
2	4461157	1	CONNECTOR	
	4460475	2	TERMINAL	
3	8220548	1	CONNECTOR	
	1001116692	6	TERMINAL	
4	4460466	17	PLUG	
	80963056	1	CONNECTOR	
	4460979	1	TERMINAL	
5	8220929	1	CONNECTOR	
	1001116729	15	TERMINAL	
6	1001117068	1	CONNECTOR	
	8220124	2	TERMINAL	
7	8220536	2	CONNECTOR	
	1001129513	4	TERMINAL	
8	4460744	2	CONNECTOR	
	1001116728	4	TERMINAL	
	1001116727	2	PLUG	
9	1001119004	2	CONNECTOR	
	1001116728	1	TERMINAL	
10	4460955	7	CONNECTOR	
	1001116748	2	TERMINAL	
11	4460042	2	RING TERMINAL	
	4460042	1	RING TERMINAL	
12	1001117021	1	CONNECTOR	
	1001116747	2	TERMINAL	
13	1001117026	1	CONNECTOR	
	1001116729	2	TERMINAL	
14	4460256	2	RING TERMINAL	
	4460256	1	RING TERMINAL	
15	1001126208	1	CONNECTOR	
	1001119619	26	TERMINAL	
	4460518	34	PLUG	
16	4461095	1	TERMINAL	
	4461094	2	TERMINAL	
	4460466	1	PLUG	
17	8220164	1	RING TERMINAL	
	8220164	2	RING TERMINAL	
18	4460142	1	RING TERMINAL	
	1001117111	1	FORK TERMINAL	
19	4460476	1	TERMINAL	
	4460475	3	TERMINAL	
20	1001125027	1	METRI-PACK CONNECTOR	
	8220124	3	TERMINAL	
21	1001117070	1	METRI-PACK CONNECTOR	
	1001116735	2	TERMINAL	
22	4460247	2	RING TERMINAL	

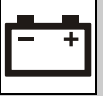
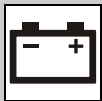


Figure 10-7 Engine Harness (Continued)

Item	Part Number	Qty.	Description	Rev.
	4460247	1	RING TERMINAL	
23	1001118282	1	METRI-PACK CONNECTOR	
	1001116733	4	TERMINAL	
24	1001116950	1	CONNECTOR	
	4460465	2	SOCKET TERMINAL	
25	4460312	2	RING TERMINAL	
	4460312	1	RING TERMINAL	
26	1001125748	1	CONNECTOR	
	1001125773	1	TERMINAL	
27	1001117021	1	METRI-PACK CONNECTOR	
	1001116728	2	TERMINAL	
28	4460019	1	RING TERMINAL	
	4460019	2	RING TERMINAL	
29	4460019	4	RING TERMINAL	
	4460019	1	RING TERMINAL	
30	4460312	1	RING TERMINAL	
	4460312	2	RING TERMINAL	



ELECTRICAL

Figure 10-7 Engine Harness

IF EQUIPPED FOR LS

X73 TO ENG_BULK2_15F				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A1	YEL	5	16 AWG	GXL
A2	GRY	17	16 AWG	GXL
A3	BLK	20	12 AWG	GXL
A4	RED	27C	12 AWG	GXL
A5	ORN	31	16 AWG	GXL
B1	RED	34	16 AWG	GXL
B2	BLU	106	16 AWG	GXL
B3	VIO	160(S6)	16 AWG	GXL
B4	YEL	151	16 AWG	GXL
B5	RED	27D	12 AWG	GXL
C1	BRN	101(S6)	16 AWG	GXL
C2	PNK	102(S2)	16 AWG	GXL
C3	BLU	103(S3)	16 AWG	GXL
C4	YEL	104(S1)	16 AWG	GXL
C5	GRN	105(S4)	16 AWG	GXL

X4 TO LOGIC CONN				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	RED	46	16 AWG	GXL
B	ORN	23	16 AWG	GXL

X1 TO ECM_BULK_23S				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLK	APS GND 1	16 AWG	GXL
B	BLK	APS SUPP 1	16 AWG	GXL
C	BLK	APS SIG 1	16 AWG	GXL
H	RED	APS SUPP 2	16 AWG	GXL
J	WHT	APS GND 2	16 AWG	GXL
K	BLK	APS SIG 2	16 AWG	GXL
X	ORN	CHG	16 AWG	GXL

X2 TO ENG_BULK3_IN				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	160	12 AWG	GXL

X74 TO ENG_BULK1_15M				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A1	BLK	40	16 AWG	GXL
A2	WHT	41	16 AWG	GXL
A3	ORN	47	16 AWG	GXL
A4	BLK	20A	12 AWG	GXL
A5	WHT	156	16 AWG	GXL
B1	GRN	18	16 AWG	GXL
B2	BLK	24A	16 AWG	GXL
B3	WHT	28	16 AWG	GXL
B4	BRN	35	16 AWG	GXL
B5	YEL	36	16 AWG	GXL
C1	GRN	8	16 AWG	GXL
C2	GRN	8	16 AWG	GXL
C3	GRN	9	16 AWG	GXL
C4	TAN	10	16 AWG	GXL

AH330 TO HORN				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	WHT	156	16 AWG	GXL
B	BLK	24A	16 AWG	GXL

X300 TO UPPER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	YEL	104B(S1)	16 AWG	GXL
2	YEL	120B(S2)	16 AWG	GXL
3	BLU	103B(S3)	16 AWG	GXL
7	BLK	2J	16 AWG	GXL

X301 TO LOWER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
4	GRN	105B(S6)	16 AWG	GXL
5	BRN	101B(S6)	16 AWG	GXL
6	GRN	100B(S6)	16 AWG	GXL
7	BLK	2H	16 AWG	GXL

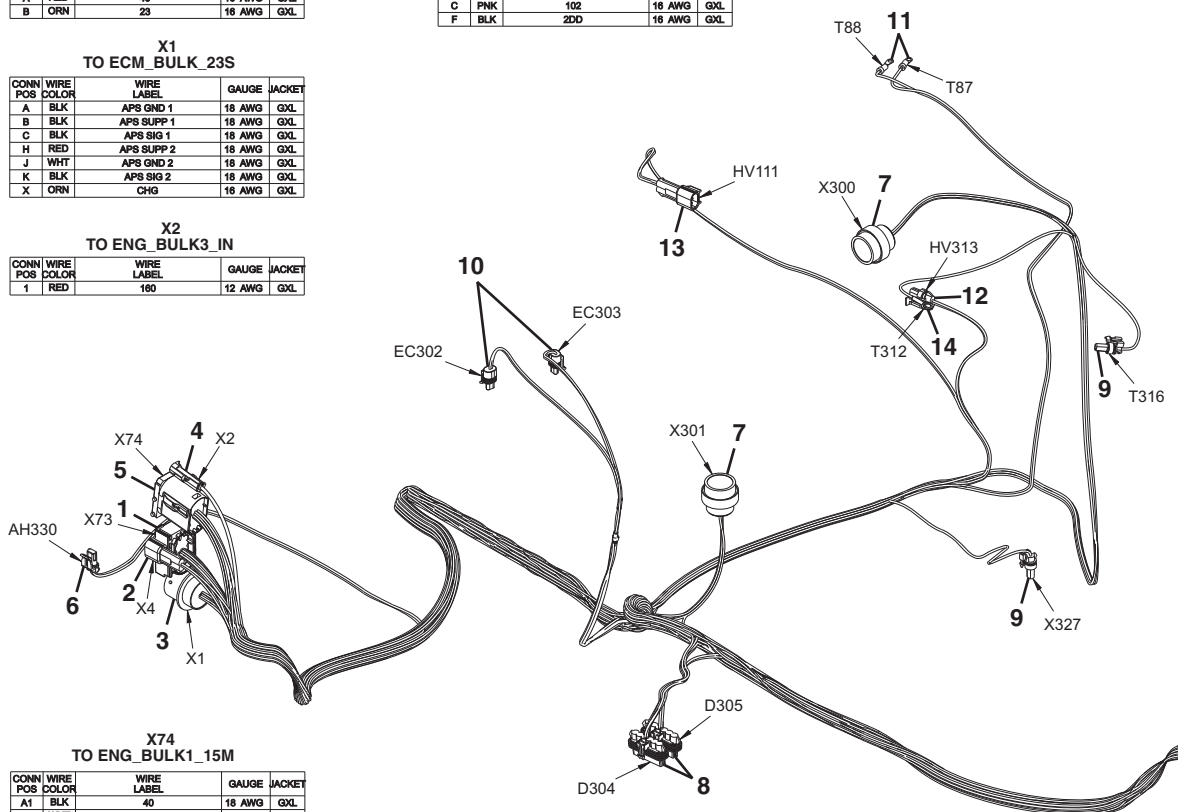
D304 TO VP2				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	GRN	150A(S8)	16 AWG	GXL
B	GRN	105A(S4)	16 AWG	GXL
C	YEL	104A	16 AWG	GXL
F	BLK	2D	16 AWG	GXL

D305 TO VP1				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLU	103A	16 AWG	GXL
B	BRN	101A	16 AWG	GXL
C	PNK	102	16 AWG	GXL
F	BLK	20D	16 AWG	GXL

T88 TO FUEL SENDER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	2A	16 AWG	GXL

HV313 TO STEER MODE VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	GRN	8	16 AWG	GXL
B	BLK	2C	16 AWG	GXL

T87 TO FUEL SENDER				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	GRY	17	16 AWG	GXL



T316 TO TRANS TEMP SW				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	GRN	18	16 AWG	GXL

X327 TO HYD TEMP SW				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	YEL	151	16 AWG	GXL

EC302 TO SECONDARY FUNCTION VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLU	41A	16 AWG	GXL
B	BLK	2E	16 AWG	GXL

EC303 TO SECONDARY FUNCTION VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	BLU	41B	16 AWG	GXL
B	BLK	2F	16 AWG	GXL

HV111 TO STEER MODE VALVE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	GRN	9	16 AWG	GXL
B	BLK	2B	16 AWG	GXL

T312 TO TRANS GND				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLK	2G	16 AWG	GXL

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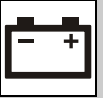


Figure 10-7 Engine Harness (Continued)

IF EQUIPPED FOR LS

X52 TO STABILTRAK			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	BLK	40	18 AWG GXL
B	BLK	2K	18 AWG GXL

X53 TO STABILTRAK			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	WHT	28A	18 AWG GXL
B	BLK	2L	18 AWG GXL

X54 TO STABILTRAK			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	WHT	47A	18 AWG GXL
B	BLK	2M	18 AWG GXL

X55 TO STABILTRAK			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	WHT	47B	18 AWG GXL
B	BLK	2N	18 AWG GXL

X56 TO STAB FLOAT B			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	WHT	28B	18 AWG GXL
B	BLK	2P	18 AWG GXL

X325 TO BACK UP ALARM			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	ORN	31	18 AWG GXL
B	BLK	2X	18 AWG GXL

X44 TO TERMINATING RESISTOR			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	YEL	CH1	18 AWG GXL
B	GRN	CH1	18 AWG GXL

T57 TO ENG. GND			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	BLK	20C	12 AWG GXL
1	BLK	20E	12 AWG GXL

T278 TO BATT+			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	RED	ECM BATT	12 AWG GXL

T328 TO PWR BUSS			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	RED	180	12 AWG GXL
1	RED	27C	12 AWG GXL

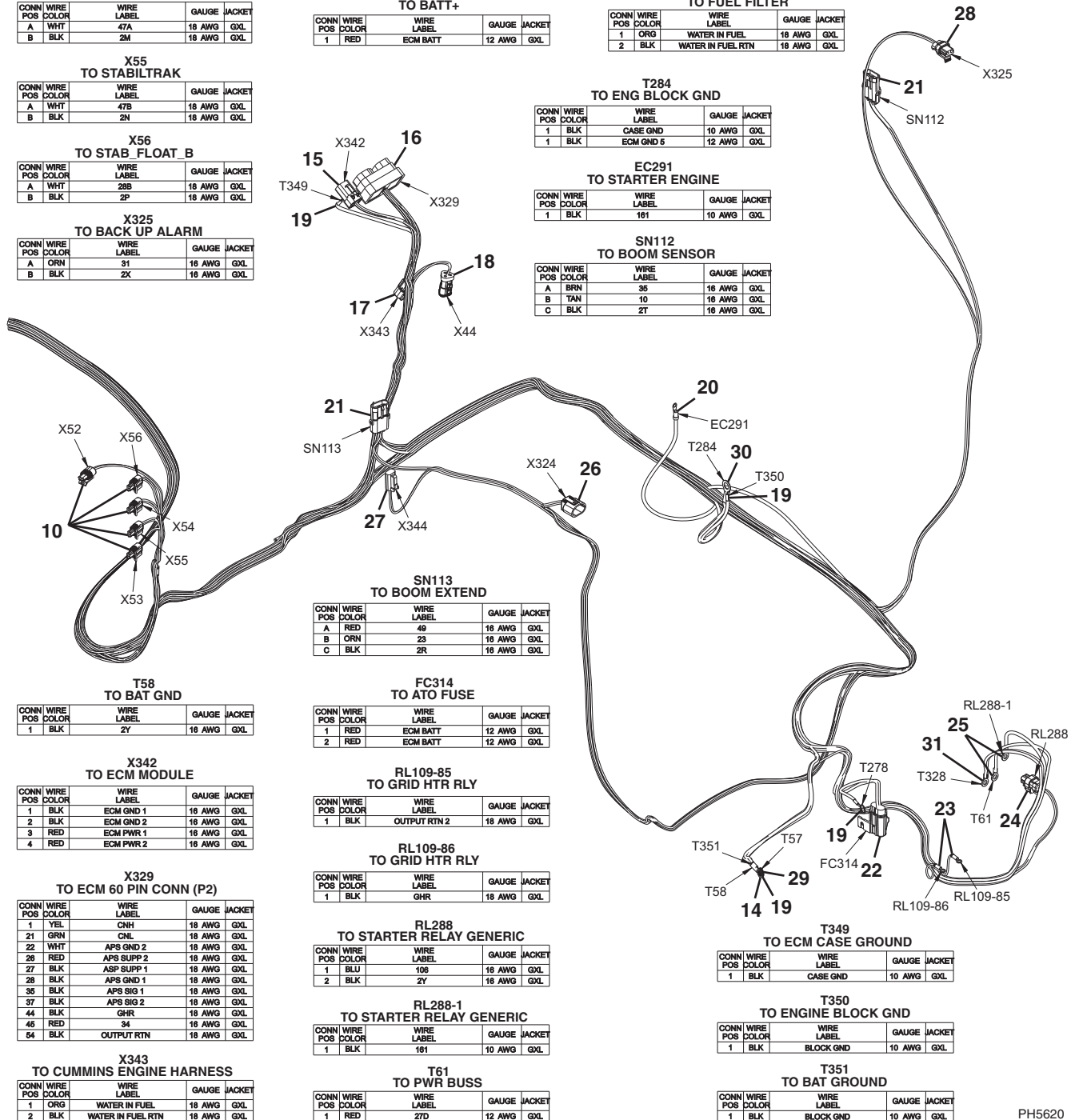
X324 TO ALTERNATOR			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	YEL	5	18 AWG GXL
2	ORN	CHG	18 AWG GXL

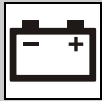
X344 TO FUEL FILTER			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	ORG	WATER IN FUEL	18 AWG GXL
2	BLK	WATER IN FUEL RTN	18 AWG GXL

T284 TO ENG BLOCK GND			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	BLK	CASE GND	10 AWG GXL
1	BLK	ECM GND 5	12 AWG GXL

EC291 TO STARTER ENGINE			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
1	BLK	161	10 AWG GXL

SN112 TO BOOM SENSOR			
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE JACKET
A	BRN	35	18 AWG GXL
B	TAN	10	18 AWG GXL
C	BLK	2T	18 AWG GXL





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Figure 10-7 Engine Harness

Item	Part Number	Qty.	Description	Rev.
1	1001133350	1	ENGINE HARNESS, (IF EQUIPPED FOR LS), (includes all items)	F
	8220927	1	CONNECTOR	
	1001116728	12	TERMINAL	
	1001116747	3	TERMINAL	
2	4461157	1	CONNECTOR	
	4460475	2	TERMINAL	
3	8220548	1	CONNECTOR	
	1001116692	7	SOCKET TERMINAL	
	4460466	16	SEALING PLUG TERMINAL	
4	80963056	1	CONNECTOR	
	4460979	1	TERMINAL	
5	8220929	1	CONNECTOR	
	1001116729	14	TERMINAL	
6	1001117068	1	METRI-PACK CONNECTOR	
	8220124	2	TERMINAL	
7	8220536	2	CONNECTOR	
	1001129513	4	SOCKET TERMINAL	
8	4460744	2	METRI-PACK CONNECTOR	
	1001116728	4	TERMINAL	
	1001116727	2	PLUG	
9	1001119004	2	METRI-PACK CONNECTOR	
	1001116728	1	TERMINAL	
10	4460955	7	CONNECTOR	
	1001116748	2	TERMINAL	
11	4460042	2	RING TERMINAL	
	4460042	1	RING TERMINAL	
12	1001117021	1	METRI-PACK CONNECTOR	
	1001116747	2	TERMINAL	
13	1001117026	1	METRI-PACK CONNECTOR	
	1001116729	2	TERMINAL	
14	4460256	2	RING TERMINAL	
	4460256	1	RING TERMINAL	
15	1001116810	1	CONNECTOR	
	4460509	4	SOCKET TERMINAL	
16	1001116831	1	CONNECTOR	
	1001119619	11	SOCKET TERMINAL	
	4460518	49	SEALING PLUG TERMINAL	
17	4460897	1	TERMINAL	
	4460464	2	TERMINAL	
18	4461095	1	CONNECTOR	
	4460943	2	TERMINAL	
	4460466	1	SEAL PLUG	
19	4460019	4	RING TERMINAL	
	4460019	1	RING TERMINAL	
20	4460142	1	RING TERMINAL	
	1001117111	1	FORK TERMINAL	
21	4460476	2	TERMINAL	
	4460475	3	TERMINAL	
22	1001117070	1	METRI-PACK CONNECTOR	

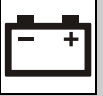
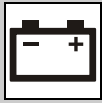


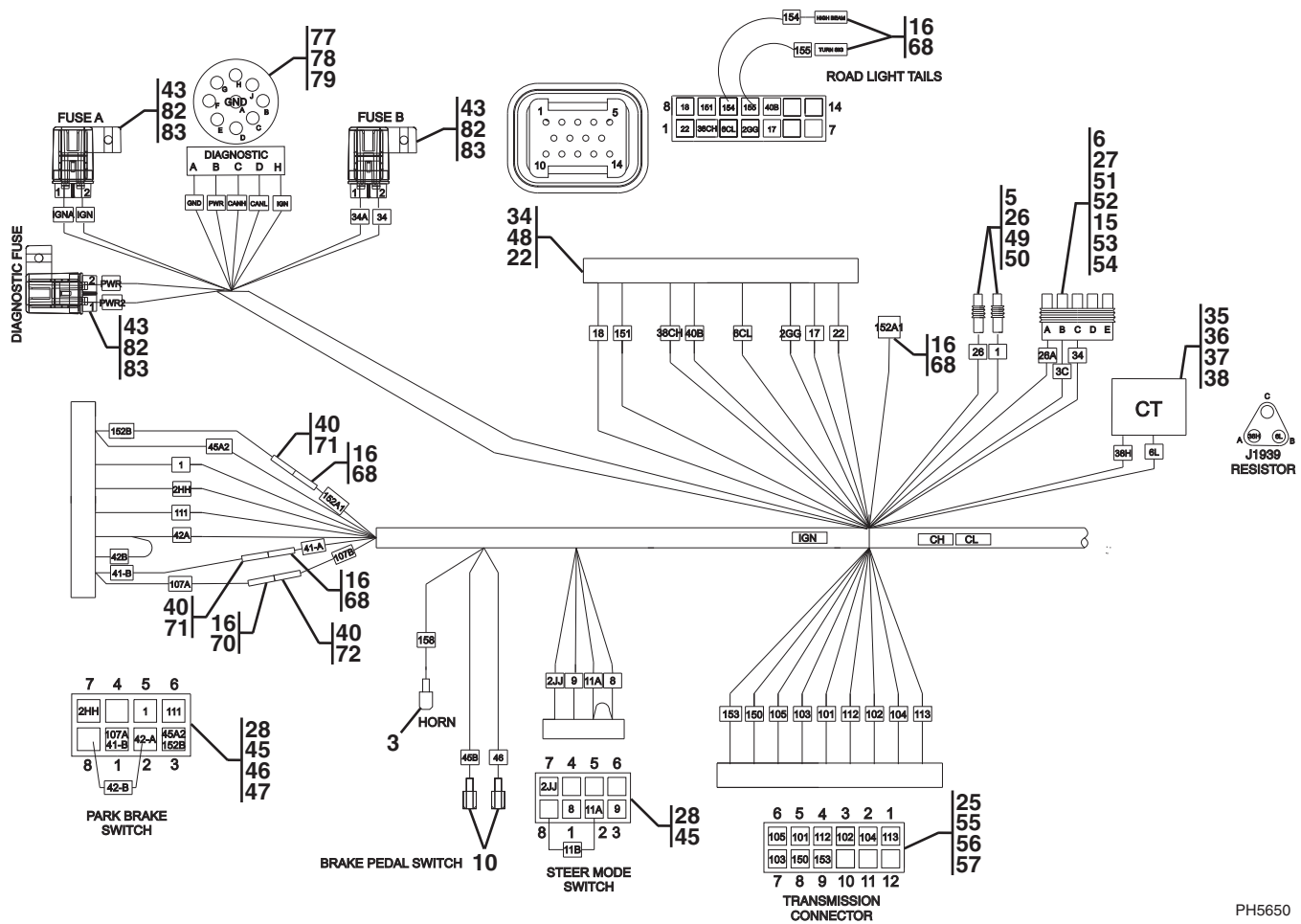
Figure 10-7 Engine Harness (Continued)

Item	Part Number	Qty.	Description	Rev.
	1001116734	2	TERMINAL	
23	4460247	2	RING TERMINAL	
	4460247	1	RING TERMINAL	
24	1001116950	1	AMPSEAL 16 CONNECTOR	
	4460465	2	SOCKET TERMINAL	
25	4460312	3	RING TERMINAL	
	4460312	4	RING TERMINAL	
26	1001125748	1	CONNECTOR	
	1001125773	2	TERMINAL	
27	4460891	1	TERMINAL	
	4460465	2	SOCKET TERMINAL	
28	1001117021	1	METRI-PACK CONNECTOR	
	1001116728	2	TERMINAL	
29	4460019	1	RING TERMINAL	
	8220164	1	RING TERMINAL	
30	8220164	1	RING TERMINAL	
	8220164	2	RING TERMINAL	
31	4460312	1	RING TERMINAL	
	4460312	2	RING TERMINAL	



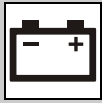
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Figure 10-8 Cab Power Distribution Harness



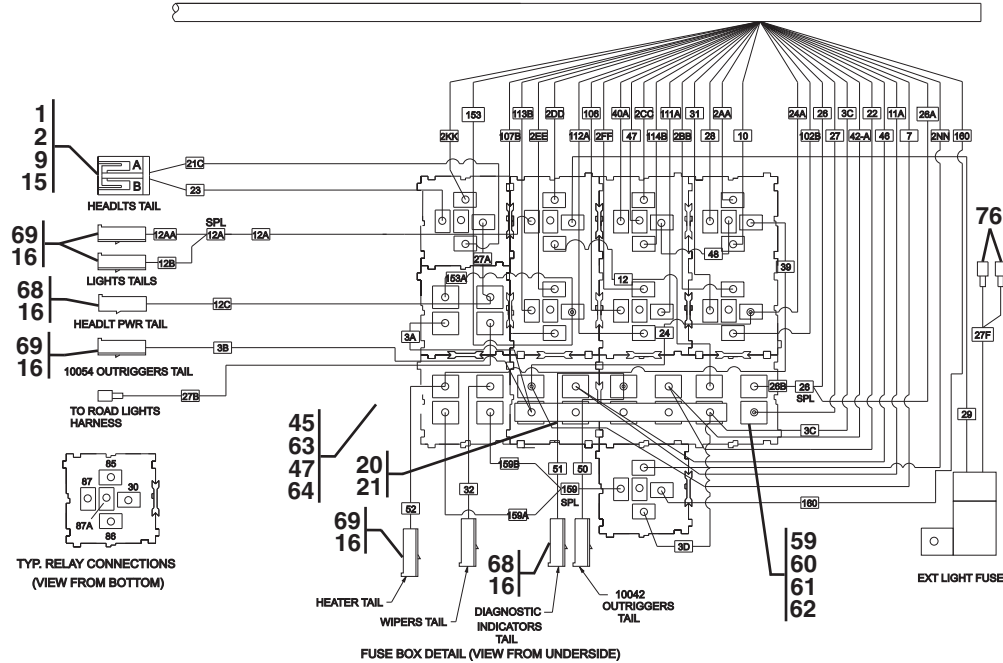
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Figure 10-8 Cab Power Distribution Harness (Continued)



180	RED	12 SXL	IGN RELAY PIN 30 - ENG_BULK1_1F
159B	PURPLE	14 SXL	SPUCE 159 - CAB FUSE
159A	PURPLE	12 SXL	SPUCE 159 - HORNHTR FUSE
159	PURPLE	12 SXL	IGN RELAY PIN 87 - SPUCE 159
158	BLACK	16 SXL	HORN TERM - ENG_BULK1_15F-A5
157	BROWN	16 SXL	JUMPER WIRE AT STAB-TRAK TERMS
IGNA	BLUE	18 SXL	SPUCE IGN-FUSE A PIN 1
155	GREEN/RED	16 SXL	INSTR PNL PIN 11 - ROADLT TAIL
154	BLUE/WHITE	16 SXL	INSTR PNL PIN 10 - ROADLT TAIL
153A	GREY/WHITE	16 SXL	TRANSM FUSE - PKBRK DIS RELAY PIN 30
153	GREY/WHITE	16 SXL	TRANSM CONN PIN 9 - PKBRK DIS RELAY PIN 30
152B	BLACK/WHITE	16 SXL	PKBRK SW MALE CONN - PKBRK SW PIN 3
IGN	BLUE	18 SXL	FUSE A PIN 2-DIAGNOSTIC PIN H
GND	BLACK	16 SXL	DIAGNOSTIC PIN A-SPUCE 20
152A1	BLACK/WHITE	16 SXL	OUTRIGGER TAIL - PKBRK SW FEM CONN
151	YELLOW/GREEN	16 SXL	INSTR PNL PIN 9 - ENG_BULK2_15M-B4
150	PURPLE	16 SXL	TRANSM CONN PIN 9 - ENG_BULK2_15M-B3
114B	BLUE/ORANGE	16 SXL	STAB LK RELAY PIN 86 - SPUCE 114
114A	BLUE/ORANGE	16 SXL	SPUCE 112 DIODE - SPUCE 114
113C	RED	16 SXL	SPUCE 113 - SPUCE 111 DIODE
113B	RED	16 SXL	SPUCE 113 - PKBRK DIS RELAY PIN 87
113A	RED	16 SXL	SPUCE 111 DIODE - SPUCE 111
113	RED	16 SXL	TRANSM CONN PIN 1 - SPUCE 113
112A	GREY	16 SXL	NEU ST RELAY PIN 86 - SPUCE 112
112	GREY	16 SXL	TRANSM CONN PIN 4 - SPUCE 112
111A	RED	12 SXL	SPUCE 111 - NEUT START RELAY PIN 30
111	RED	12 SXL	PKBRK SW PIN 6 - SPUCE 111
107B	BLUE	18 SXL	PKBRK SW MALE CONN - PKBRK DIS RELAY PIN 86
107A	BLUE	18 SXL	PKBRK SW PIN 1 - PKBRK SW FEM CONN
106	BLUE/ORANGE	12 SXL	NEU ST RELAY PIN 87 - ENG_BULK2_15M-B2
105	GREEN	16 SXL	TRANSM CONN PIN 6 - ENG_BULK2_15M-C5
104	YELLOW	16 SXL	TRANSM CONN PIN 2 - ENG_BULK2_15M-C4
103	BLUE	16 SXL	TRANSM CONN PIN 7 - ENG_BULK2_15M-C3
PWR2	RED	16 SXL	SPUCE 27-DIAGNOSTIC FUSE PIN 1
CANL	GREEN	18 SXL	DIAGNOSTIC PIN D-SPUCE CL
CANH	YELLOW	18 SXL	DIAGNOSTIC PIN C-SPUCE CH
PWR	RED	16 SXL	DIAGNOSTIC PIN B-DIAGNOSTIC FUSE PIN 2
102B	PINK	16 SXL	SPUCE 102 - BACKUP RELAY PIN 86
102A	PINK	16 SXL	SPUCE 102 - ENG_BULK2_15M-C2
102	PINK	16 SXL	SPUCE 102 - TRANSM CONN PIN 3
101	BROWN	16 SXL	TRANSM CONN PIN 5 - ENG_BULK2_15M-C1
WIRE NO	COLOR	WIRE GAGE/TYPE	WIRE TO/FROM

52	ORANGE	14 SXL	HORNHTR FUSE - HEATER TAIL
51	WHITE/RED	16 SXL	OPT FUSE - DIAG IND TAIL
50	WHITE/YELLOW	16 SXL	OPT FUSE - 10042 OUTRIG TAIL
48	PURPLE/BLACK	16 SXL	STAB RELAY PIN 30 - BOOM SW RELAY PIN 87A
47	ORANGE/WHITE	16 SXL	STAB RELAY PIN 87A - ENG_BULK1_15F-A3
46	WHITE/ORANGE	16 SXL	STR/STAB FUSE - BRAKE PED SW
45B	DK BLUE/ORANGE	16 SXL	SPUCE 45 - BRAKE PED SW
45A2	DK BLUE/ORANGE	16 SXL	SPUCE 45 DIODE - PKBRK SW PIN 3
45A	DK BLUE/ORANGE	16 SXL	SPUCE 45 DIODE - SPUCE 45
45	DK BLUE/ORANGE	16 SXL	SPUCE 45 - SPUCE 114
42-B	TAN	16 SXL	PKBRK SW JUMPER PINS 3-8
42-A	TAN	16 SXL	PKBRK SW PIN 2 - INSTR FUSE
41-B	DK BLUE/WHITE	16 SXL	PKBRK SW PIN 1 - PKBRK SW MALE CONN
41-A	DK BLUE/WHITE	16 SXL	PKBRK SW FEM CONN - ENG_BULK1_15F-A2
40B	BROWN/BLACK	16 SXL	SPUCE 40 - INSTR PNL PIN 12
40A	BROWN/BLACK	16 SXL	SPUCE 40 - STAB LK RELAY PIN 87
40	BROWN/BLACK	16 SXL	SPUCE 40 - ENG_BULK1_15F-A1
39	RED/GRAY	16 SXL	BOOM SW RELAY PIN 30 - STAB FUSE
38	YELLOW	16 SXL	SPUCE CH - ENG_BULK1_15F-B6
35	BROWN/WHITE	16 SXL	STAB-TRAK TERM - ENG_BULK1_15F-B4
34	RED/BLACK	16 SXL	FUSE B PIN 2 - ENG_BULK2_15M-B1
32	GRAY/WHITE	14 SXL	CAB FUSE - WIPER TAIL
31	ORANGE/RED	16 SXL	BACKUP RELAY PIN 87 - ENG_BULK2_15M-A5
29	RED	12 SXL	EXT LIGHT FUSE - LIGHT SW RELAY PIN 30
28	PURPLE/WHITE	16 SXL	BOOM SW RELAY PIN 87 - ENG_BULK1_15F-B3
27F	RED	12 SXL	12V_BUSSBAR - EXT LIGHTS FUSE
27D	RED	12 SXL	SPUCE 27 - ENG_BULK2_15M-B5
27C	RED	12 SXL	SPUCE 27 - ENG_BULK2_15M-A4
27B	RED	12 SXL	ROAD LIGHT HARNESS - LIGHT FUSE
27A	RED	12 SXL	HOLD SW RELAY PIN 30 - LIGHTS FUSE
27	RED	10 SXL	SPUCE 27 - MAIN FUSE
26B	RED	10 SXL	SPUCE 26 - MAIN FUSE
26A	RED	10 SXL	SPUCE 26 - IGN SWITCH PIN A
26	RED	10 SXL	SPUCE 26 - IGN SWITCH
24A	ORANGE/GREEN	14 SXL	BUKUP RELAY PIN 30 - ENG_BULK1_15F-B2
24	ORANGE/GREEN	14 SXL	BACKUP RELAY PIN 30 - HORNHTR FUSE
23	GREEN	16 SXL	HEADLT CONN PIN B - HEADLT SW RELAY PIN 87
22	WHITE	16 SXL	INSTR FUSE DIODE - INSTR PNL PIN 1
21C	RED	16 SXL	HEADLT CONN PIN A - HEADLT SW RELAY PIN 86
20A	BLACK	12 SXL	ENG_BULK1_15F-A4 - SPUCE 20A
WIRE NO	COLOR	WIRE GAGE/TYPE	WIRE TO/FROM

20	BLACK	12 SXL	ENG_BULK2_15M-A3 - SPUCE 20
18	GREEN	18 SXL	ENG_BULK1_15F-B1 - INST PNL PIN 8
17	GRAY	18 SXL	ENG_BULK2_15M-A2 - INST PNL PIN 5
38CH	YELLOW	18 SXL	SPUCE CH-INSTR PNL PIN 2
38H	YELLOW	18 SXL	SPUCE CH-CT PIN A
34A	RED/BLK	16 SXL	FUSE B PIN 1-SPUCE IGN
15A	LT. BLUE	18 SXL	ENG_BULK2_15M-A1 - SPUCE 159
12AA	DK BLUE	12 SXL	SPUCE 12A - LIGHT OPTION TAIL
12C	DK BLUE	16 SXL	LIGHTS FUSE - HOLD LIGHT PWR TAIL
12B	DK BLUE	12 SXL	SPUCE 12A - LIGHT OPTION TAIL
12A	DK BLUE	12 SXL	SPUCE 12A - LIGHT SW RELAY PIN 87
12	DK BLUE	18 SXL	OPT FUSE - LIGHT SW RELAY PIN 86
11B	LT. GREEN	16 SXL	STEER-MODE SW JUMPER PIN 2-PIN 8
11A	LT. GREEN	16 SXL	STEER-MODE SW PIN 2 - STR/STAB FUSE
10	TAN	16 SXL	BOOM SW RELAY PIN 86 - ENG_BULK1_15F-C4
9	GREEN/BLACK	16 SXL	STEER-MODE SW PIN 3 - ENG_BULK1_15F-C3
8	GREEN/WHITE	16 SXL	STEER-MODE SW PIN 1 - ENG_BULK1_15F-C2
7	BROWN	16 SXL	STAB FUSE - STAB-TRAK TERM
6	GREEN	18 SXL	SPUCE CL - ENG_BULK1_15F-C1
3D	PURPLE	18 SXL	IGN RELAY PIN 86 - FUSEBOX_BUSSBAR
3C	PURPLE	10 SXL	IGN SW PIN B - FUSE BUSBAR
3B	PURPLE	10 SXL	FUSE BUSBAR - 10054 OUTRIG TAIL
3A	PURPLE	10 SXL	TRANSMISSION FUSE - FUSE BUSBAR
6CL	GREEN	16 SXL	SPUCE CL-INSTR PNL PIN 3
6L	GREEN	16 SXL	SPUCE CL-CT PIN B
IGNSW	BLUE	16 SXL	IGNITION SWITCH PIN C-SPUCE IGN
2NN	BLACK	12 SXL	SPUCE 20 - IGNITION RELAY PIN 85
2MM	BLACK	12 SXL	SPUCE 20A - CAB GROUND STUD
2LL	BLACK	12 SXL	SPUCE 20 - CAB GROUND STUD
2KK	BLACK	18 SXL	SPUCE 20 - HEADLIGHT SW RELAY PIN 85
2JJ	BLACK	18 SXL	SPUCE 20A - STEER-MODE SW PIN 7
2HH	BLACK	18 SXL	SPUCE 20A - PKBRK SW PIN 7
2GG	BLACK	18 SXL	SPUCE 20A - INSTR PNL PIN 4
2FF	BLACK	18 SXL	SPUCE 20 - NEUTRAL START RELAY PIN 85
2EE	BLACK	18 SXL	SPUCE 20A - PKBRK DIS RELAY PIN 85
2DD	BLACK	18 SXL	SPUCE 20 - LIGHT SW RELAY PIN 85
2CC	BLACK	18 SXL	SPUCE 20 - STAB LK RELAY PIN 85
2BB	BLACK	18 SXL	SPUCE 20A - BACKUP RELAY PIN 85
2AA	BLACK	18 SXL	SPUCE 20 - BOOM RELAY PIN 85
1	WHITE	10 SXL	IGN SW - PKBRK SW PIN 5
WIRE NO	COLOR	WIRE GAGE/TYPE	WIRE TO/FROM

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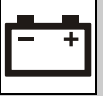
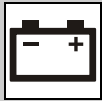


Figure 10-8 Cab Power Distribution Harness

Item	Part Number	Qty.	Description	Rev.
	1001129762	1	CAB POWER DISTRIBUTION HARNESS, (includes all items)	D
1	1001117021	1	PLUG, METRI-PACK, SERIES 280, 2 POSITION	
2	8220890	1	SECONDARY LOCK, 2 WAY, SEALED METRI-PACK	
5	1001121728	2	CONNECTOR, FEMALE, 1 POSITION	
6	1001121726	1	PLUG, METRI-PACK, SERIES 280, 5 POSITION	
9	4460458	1	SEAL TERMINAL, METRI-PACK, SERIES 280	
15	1001116728	15	TERMINAL, METRI-PACK, 280 SERIES	
16	8220970	13	CONNECTOR	
17	70024244	2	4 FUSE MODULE	
18	70024245	3	MOUNTING LEG	
19	4461103	20	LOCKING WEDGE	
20	70024246	1	BUS BAR	
21	70024247	1	BUS BAR INSULATOR	
22	4460872	1	PLUG, AMPSEAL, 14 POSITION	
23	4461101	10	LOCKING WEDGE	
25	80363178	1	CONNECTOR	
26	1001121728	2	CONNECTOR, FEMALE	
27	1001121726	1	CONNECTOR, FEMALE, 5 POSITION, METRI-PACK	
28	7026439	2	CONNECTOR	
29	8220929	11	CONNECTOR, METRI-PACK, 15 POSITION, MALE	
30	70024253	11	TPA LOCK	
31	8220927	1	CONNECTOR, METRI-PACK, 15 POSITION, FEMALE	
32	70024254	1	TPA LOCK	
33	70024255	1	SEAL	
34	4460905	4	HOLE SEAL PLUG TERMINAL, AMPSEAL	
35	91554018	1	CONNECTOR	
36	70020891	3	TERMINAL	
37	8220553	1	RECEPTACLE	
38	70021825	1	WEDGE LOCK	
39	70024256	1	SIDE LOCK	
40	7116562	3	CONNECTOR, MALE	
42	70024257	1	CONNECTOR	
43	1001096134	3	FUSE COVER HOLDER	
44	1001116734	2	TERMINAL, METRI-PACK, FEMALE	
45	70022747	20	TERMINAL	
46	70024258	1	TERMINAL, METRI-PACK, FEMALE	
47	1001116735	7	TERMINAL, METRI-PACK, FEMALE	
48	4460871	8	AMPSEAL SOCKET TERMINAL	
49	1001121730	2	TERMINAL, FEMALE, METRI-PACK	
50	8220160	2	CABLE SEAL TERMINAL, FEMALE, METRI-PACK	
51	8220125	2	TERMINAL, FEMALE, METRI-PACK	
52	8220089	6	CABLE SEAL TERMINAL, METRI-PACK	
53	8220081	18	CABLE SEAL, METRI-PACK	
54	1001116727	2	CAVITY PLUG, METRI-PACK	
55	80363179	1	LOCK WEDGE	
56	4460464	9	TERMINAL, #16-#18 PIN	
57	4460466	3	SEALING PLUG TERMINAL	
58	70024248	1	2 FUSE MODULE	
59	70024249	1	FUSE TERMINAL, WITH SPRING CLIP	



ELECTRICAL

Figure 10-8 Cab Power Distribution Harness (Continued)

Item	Part Number	Qty.	Description	Rev.
60	70024250	3	FUSE TERMINAL, WITH SPRING CLIP	
61	70024251	9	FUSE TERMINAL, WITH SPRING CLIP	
62	70024252	13	SECONDARY LOCK	
63	4460419	17	TERMINAL, FEMALE, METRI-PACK	
64	4461102	30	SECONDARY LOCK	
65	1001116747	2	TERMINAL, FEMALE, METRI-PACK	
66	1001116745	4	TERMINAL, MALE, METRI-PACK	
67	1001116729	1	TERMINAL, MALE, METRI-PACK	
68	1001116736	9	TERMINAL, FEMALE, UNSEALED	
69	1001116737	4	TERMINAL, FEMALE, UNSEALED	
71	70024259	2	TERMINAL, MALE, METRI-PACK	
72	4461189	1	TERMINAL, MALE, METRI-PACK	
73	80963055	1	CONNECTOR, WEATHER-PACK	
74	4460790	1	TERMINAL, FEMALE SLEEVE SOCKET	
77	4460466	1	SEAL, PLUG	
78	4460944	1	SOCKET, FEMALE	
79	1001116975	1	CONNECTOR	
82	1001116733	3	TERMINAL, FEMALE	
83	1001117019	3	CONNECTOR, MALE	

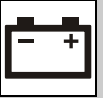
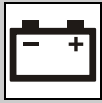


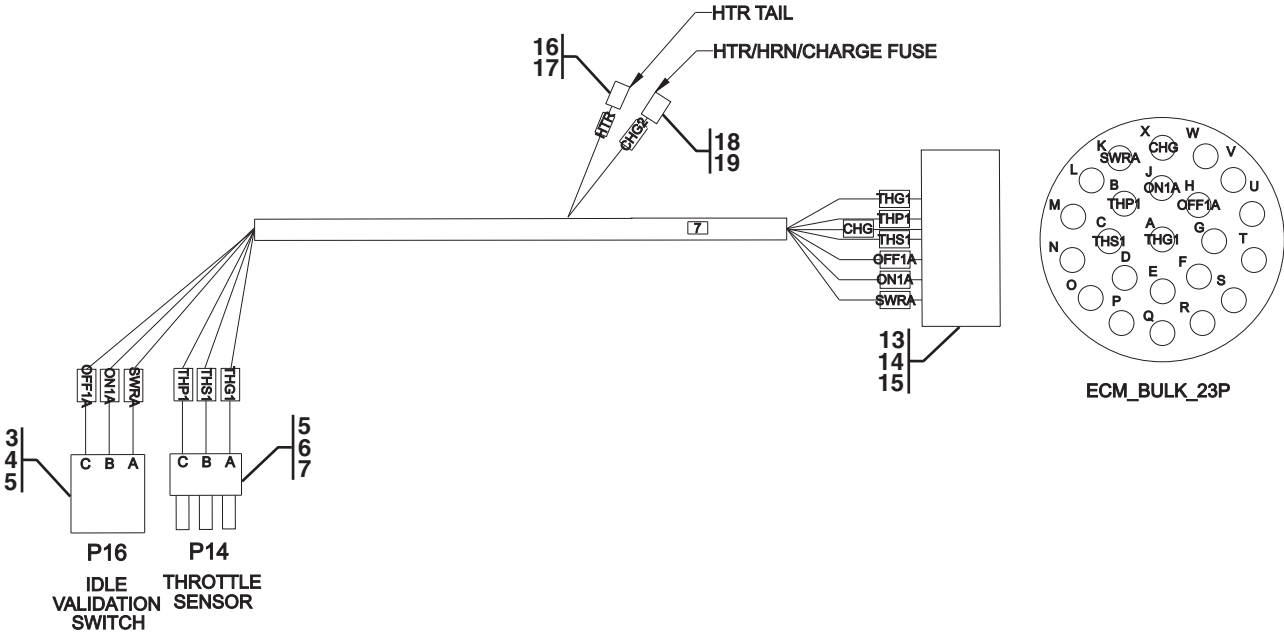
Figure 10-8 Cab Power Distribution Harness (Continued)

Item	Part Number	Qty.	Description	Rev.



ELECTRICAL

Figure 10-9 Dash/Throttle Harness



WIRELIST FROM/TO INFORMATION							
WIRE NAME	SPOOL	GAGE	COLOR	FROM COMPONENT	PIN	TO COMPONENT	PIN
ON1A	GXL18PR	18	PURPLE	ECM_BULK_23P	J	P16	B
OFF1A	GXL18O	18	ORANGE	ECM_BULK_23P	H	P16	C
SWRA	GXL18Y	18	YELLOW	ECM_BULK_23P	K	P16	A
THG1	GXL18BK	18	BLACK	ECM_BULK_23P	A	P14	A
THP1	GXL18R	18	RED	ECM_BULK_23P	B	P14	C
THS1	GXL18W	18	WHITE	ECM_BULK_23P	C	P14	B
CHG	GXL16ORG	16	ORANGE	ECM_BULK_23P	X	7	SPLICE
HTR	GXL12ORG	12	ORANGE	HTR TAIL	1	7	SPLICE
CHG2	GXL12ORG	12	ORANGE	HTR/HRN/CHARGE FUSE	1	7	SPLICE

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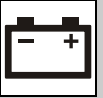
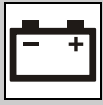


Figure 10-9 Dash/Throttle Harness

Item	Part Number	Qty.	Description	Rev.
	1001129760	1	DASH/THROTTLE HARNESS, (includes all items)	B
3	4460476	1	CONNECTOR	
4	4460979	3	TERMINAL	
5	4460458	6	SEAL	
6	4460459	1	CONNECTOR	
7	4460743	3	TERMINAL	
13	8220552	1	CONNECTOR	
14	1001116693	9	TERMINAL	
15	4460466	14	SEALING PLUG TERMINAL	
16	8220970	1	CONNECTOR	
17	1001116737	1	TERMINAL	
18		1	CONNECTOR	
19		1	TERMINAL	

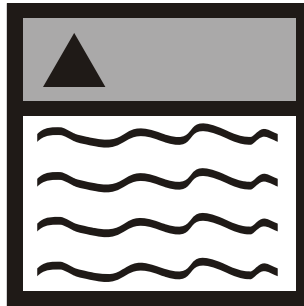


ELECTRICAL

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SECTION 11

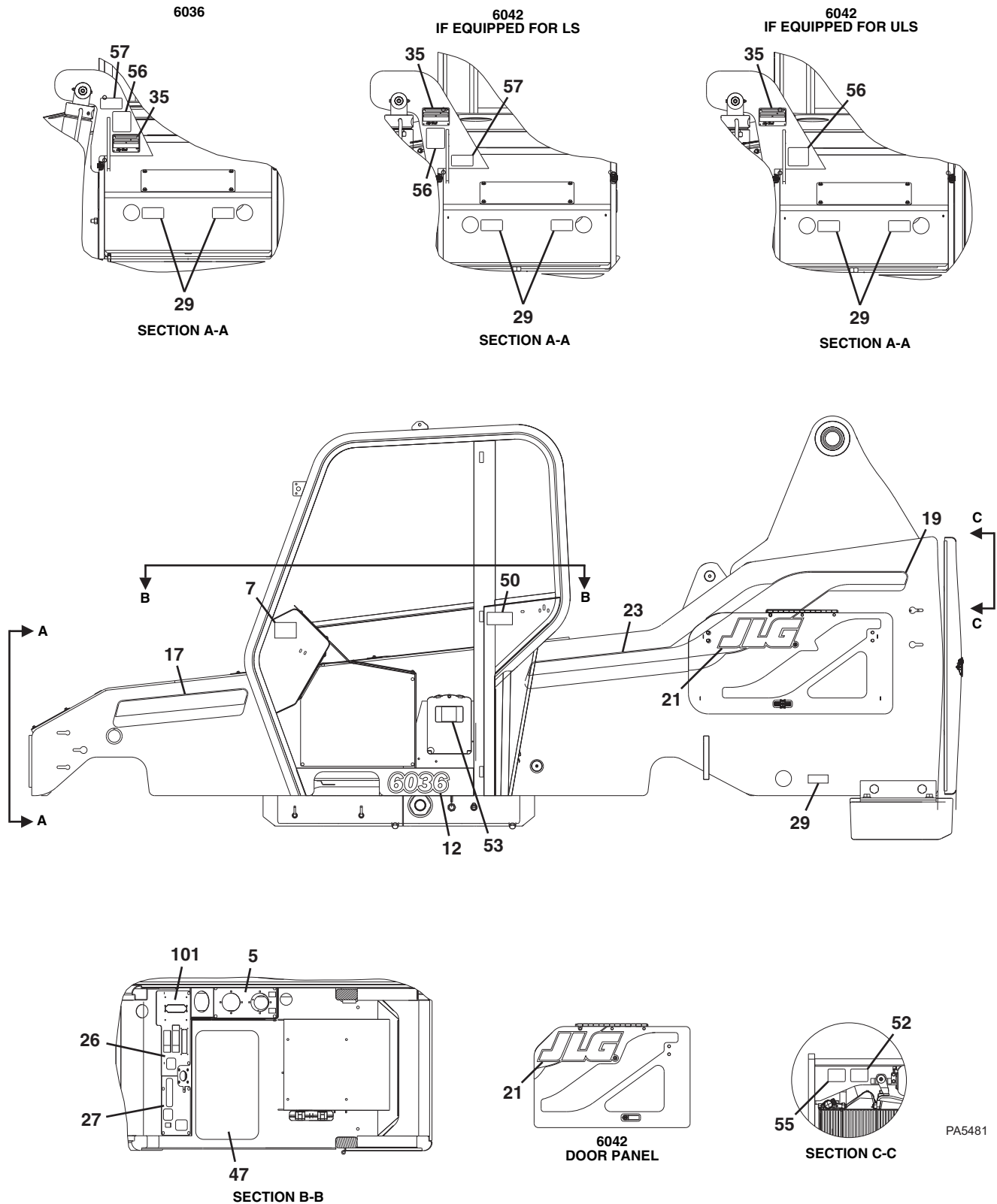
DECALS





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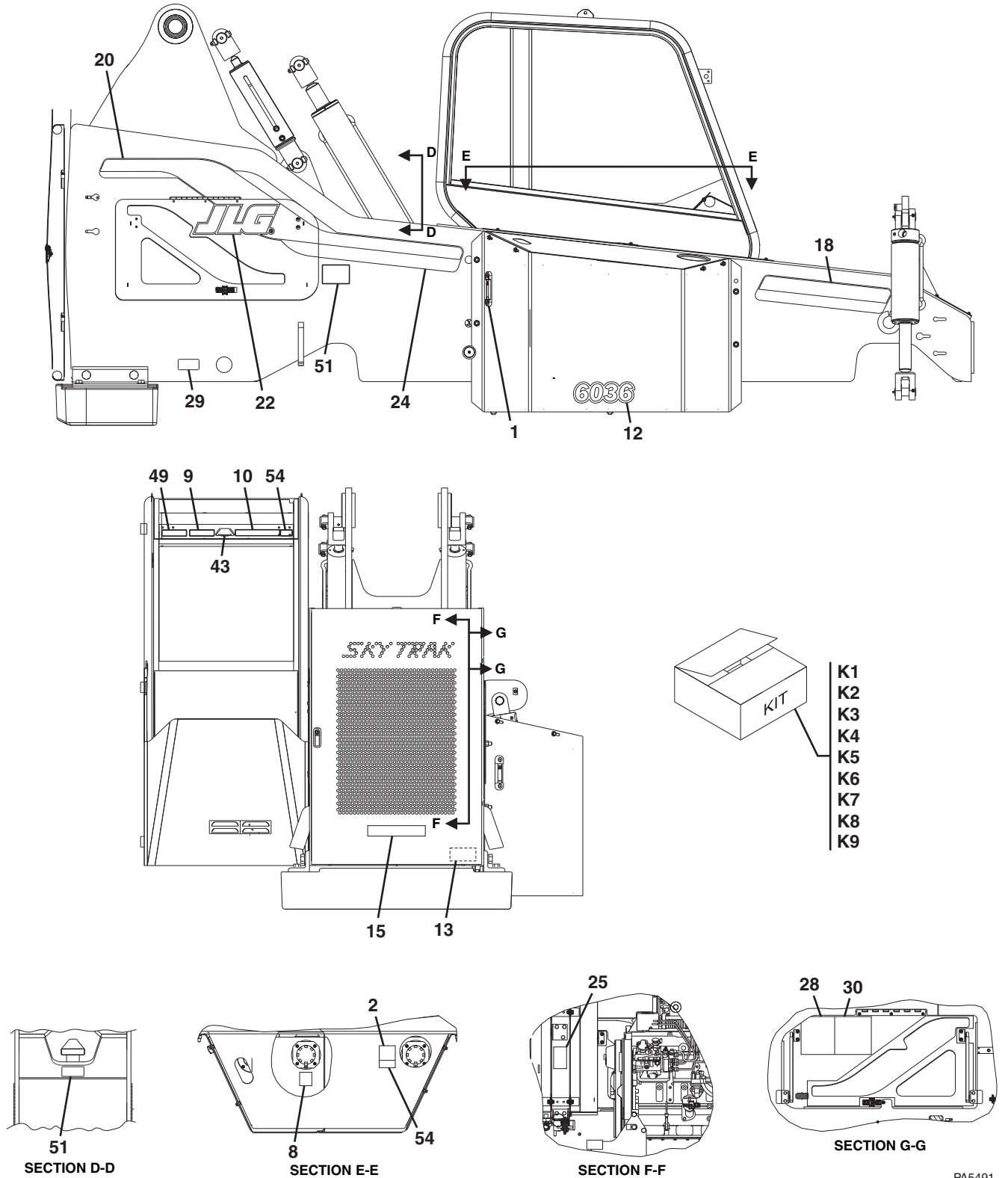
Figure 11-1 Cab & Frame Decals



PA5481



Figure 11-1 Cab & Frame Decals (Continued)



PA5491



DECALS

Figure 11-1 Cab & Frame Decals

Item	Part Number	Qty.	Description	Rev.
	1001142442	Ref	DECAL INSTALLTION, (6036) , (ISO) , (if equipped for LS) , (not available to order, see items 1 thru 53, 56 & 57 on Figure 11-1 and items on Figure 11-2 for service)	A
	1001125357	Ref	DECAL INSTALLTION, (6036) , (ISO) , (if equipped for ULS) , (not available to order, see items 1 thru 56 on Figure 11-1 and items on Figure 11-2 for service)	B
	1001125356	Ref	DECAL INSTALLTION, (6036) , (ANSI) , (not available to order, see items 1 thru 56 on Figure 11-1 and items on Figure 11-2 for service)	B
	1001142441	Ref	DECAL INSTALLTION, (6042) , (ISO) , (if equipped for LS) , (not available to order, see items 1 thru 53, 56 & 57 on Figure 11-1 and items on Figure 11-2 for service)	A
	1001125359	Ref	DECAL INSTALLTION, (6042) , (ISO) , (if equipped for ULS) , (not available to order, see items 1 thru 56 on Figure 11-1 and items on Figure 11-2 for service)	B
	1001125358	Ref	DECAL INSTALLTION, (6042) , (ANSI) , (not available to order, see items 1 thru 56 on Figure 11-1 and items on Figure 11-2 for service)	B
1	4108302	1	HYDRAULIC OIL LEVEL DECAL, (6036)	
	4100181	1	HYDRAULIC OIL LEVEL DECAL, (6042)	
2	4105171	1	DIESEL FUEL FILL DECAL	
5	4107462	1	SIDE CONSOLE DECAL	
7	3251813	1	USA DECAL	
8	4100181	1	HYDRAULIC OIL FILL DECAL, (6036)	
	4108302	1	HYDRAULIC OIL FILL DECAL, (6042)	
9	1706284	1	ELECTROCUTION HAZARD DECAL, (ISO)	
	1706299	1	ELECTROCUTION HAZARD DECAL, (ANSI)	
10	1706288	1	TIP HAZARD DECAL, (ISO)	
	1706306	1	TIP HAZARD DECAL, (ANSI)	
12	1706171	2	MODEL NUMBER DECAL, (6036)	
	1706172	2	MODEL NUMBER DECAL, (6042)	
13	1706281	1	BATTERY WARNING DECAL, (ISO)	
	1706296	1	BATTERY WARNING DECAL, (ANSI)	
15	1704885	1	WEBSITE DECAL	
17	4110176	1	FRONT FRAME STRIPE LH SIDE DECAL	
18	4110177	1	FRONT FRAME STRIPE RH SIDE DECAL	
19	4110178	1	LEFT REAR FRAME STRIPE DECAL, (6036)	
	4110362	1	LEFT REAR FRAME STRIPE DECAL, (6042)	
20	4110179	1	REAR FRAME STRIP RH SIDE DECAL	
21	1706202	1	LH ENGINE DOOR STRIPE DECAL, (6036)	
	1706204	1	LH ENGINE DOOR STRIPE DECAL, (6042)	
22	1706203	1	RH ENGINE DOOR STRIPE DECAL	
23	4110182	1	MID FRAME STRIPE DECAL, (6036)	
	4110364	1	MID FRAME STRIPE DECAL, (6042)	
24	4110183	1	MID FRAME RH SIDE STRIPE DECAL	
25	1706285	2	MOVING PARTS WARNING DECAL, (ISO)	
	1706301	2	MOVING PARTS WARNING DECAL, (ANSI)	
26	1001129767	1	OVERLAY RH DECAL, (ISO)	
	1001129766	1	OVERLAY RH DECAL, (ANSI)	
27	1001110282	1	OVERLAY LH DECAL, (ISO)	
	4110188	1	OVERLAY LH DECAL, (ANSI)	
28	1001109597	1	LUBRICATION CHART DECAL, (6036)	
	1001109598	1	LUBRICATION CHART DECAL, (6042)	
29	4110226	4	LIFT POINT/TIE DOWN DECAL	



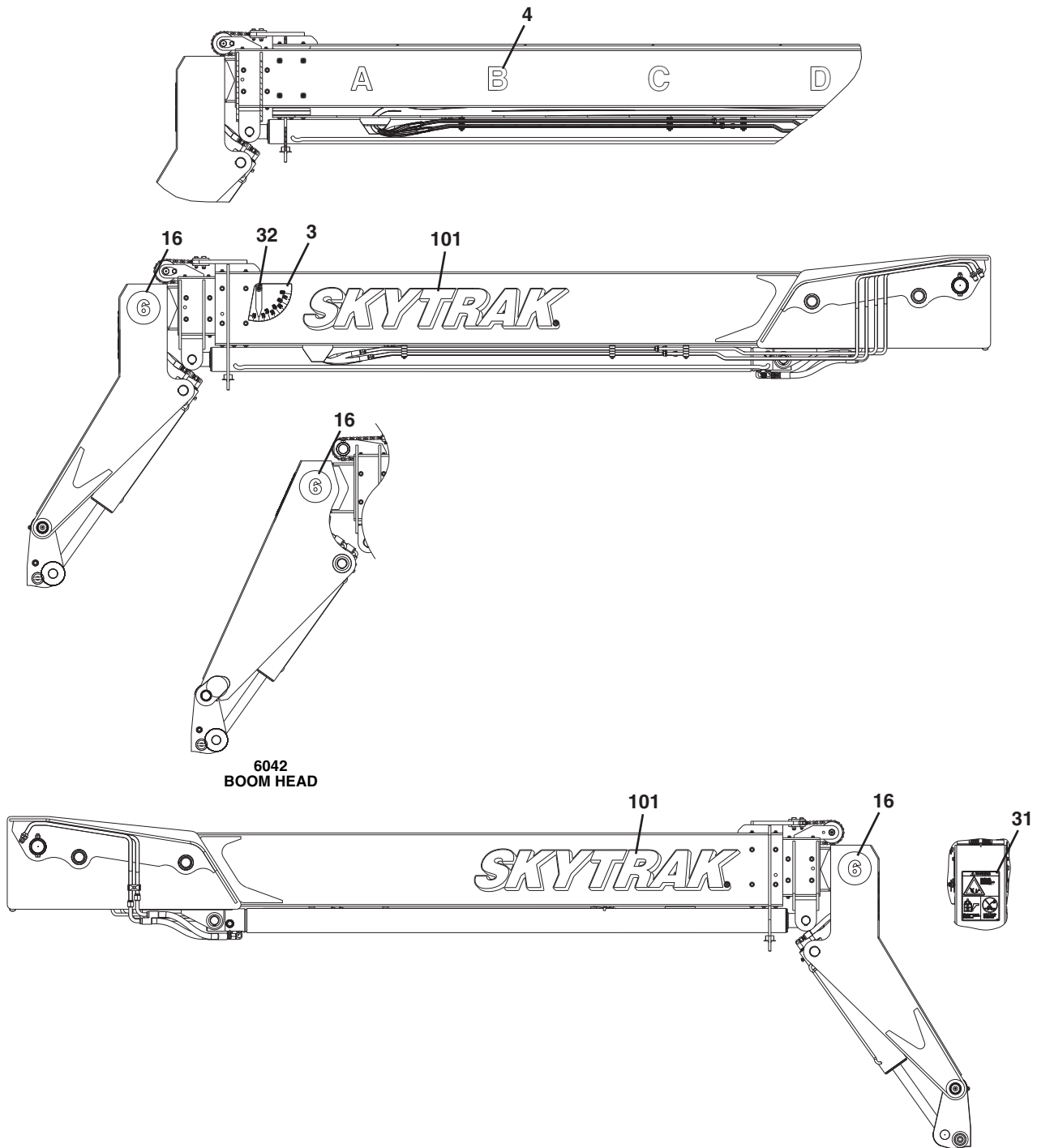
Figure 11-1 Cab & Frame Decals (Continued)

Item	Part Number	Qty.	Description	Rev.
30	1001143904	1	MAINTENANCE CHART DECAL	
35	NSS	1	S/N PLATE	
43	8466306	1	TILT ANGLE GAUGE	
47	10139087	1	ANTI SLIP ADHESIVE STRIP	
49	1001092877	1	CRUSH HAZARD WARNING DECAL, (ISO)	
	1706850	1	CRUSH HAZARD WARNING DECAL, (ANSI)	
50	1001092878	1	NO RIDERS DECAL, (ISO)	
	1706768	1	NO RIDERS DECAL, (ANSI)	
51	1706098	2	ETHER STARTING WARNING DECAL, (ISO)	
	1706300	2	ETHER STARTING WARNING DECAL, (ANSI)	
52	1001109053	1	COOLANT FILL DECAL	
53	1701640	1	MANUAL DECAL	
54	1001125387	2	ULTRA LOW SULFUR DECAL	
55	1001139578	1	HOT FLUID WARNING DECAL	
56	1001131271	1	TELEHANDLERS PATENT DECAL	
57	1001143852	1	EXPORT DECAL, (if equipped for LS)	
101	1001106012	1	CAPACITY CHART BOOKLET, (6036), (ANSI)	
	1001127753	1	CAPACITY CHART BOOKLET, (6036), (ISO)	
	1001110412	1	OPTIONAL CAPACITY CHART BOOKLET, (6036), (ANSI)	
	1001127755	1	OPTIONAL CAPACITY CHART BOOKLET, (6036), (ISO)	
	1001106013	1	CAPACITY CHART BOOKLET, (6042), (ANSI)	
	1001127593	1	CAPACITY CHART BOOKLET, (6042), (ISO)	
	1001110413	1	OPTIONAL CAPACITY CHART BOOKLET, (6042), (ANSI)	
	1001127594	1	OPTIONAL CAPACITY CHART BOOKLET, (6042), (ISO)	
K1	7302189	1	UNITED RENTALS DECAL KIT	
K2	1001128530	1	HERTZ DECAL KIT	
K3	0274271	1	SUNSTATE DECAL KIT, (6042)	
K4	0274272	1	NES DECAL KIT	
K5	0274039	1	CUSTOMER DECAL KIT	
K6	0274547	1	H&E DECAL KIT	
K7	1001120632	1	SUNBELT DECAL KIT	
K8	1001098594	1	RSC DECAL KIT	
K9	1001140699	1	LEAVITT DECAL KIT, (6042)	



DECALS

Figure 11-2 Boom Decals



PA5470



Figure 11-2 Boom Decals

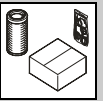
Item	Part Number	Qty.	Description	Rev.
	1001142442	Ref	DECAL INSTALLTION, (6036), (ISO), (if equipped for LS) , (not available to order, see items 3 thru 31 on Figure 11-2 and items on Figure 11-1 for service)	A
	1001125357	Ref	DECAL INSTALLTION, (6036), (ISO), (if equipped for ULS) , (not available to order, see items 3 thru 31 on Figure 11-2 and items on Figure 11-1 for service)	B
	1001125356	Ref	DECAL INSTALLTION, (6036), (ANSI) , (not available to order, see items 3 thru 31 on Figure 11-2 and items on Figure 11-1 for service)	B
	1001142441	Ref	DECAL INSTALLTION, (6042), (ISO), (if equipped for LS) , (not available to order, see items 3 thru 31 on Figure 11-2 and items on Figure 11-1 for service)	A
	1001125359	Ref	DECAL INSTALLTION, (6042), (ISO), (if equipped for ULS) , (not available to order, see items 3 thru 31 on Figure 11-2 and items on Figure 11-1 for service)	B
	1001125358	Ref	DECAL INSTALLTION, (6042), (ANSI) , (not available to order, see items 3 thru 31 on Figure 11-2 and items on Figure 11-1 for service)	B
3	4105262	1	BOOM ANGLE INDICATOR DECAL	
4	4107442	1	BOOM EXTEND LETTERS DECAL	
16	1706170	2	GOOSENECK 6 DECAL	
31	1706282	1	CARRYING PERSONNEL DECAL, (ISO)	
	1706298	1	CARRYING PERSONNEL DECAL, (ANSI)	
32		Ref	BOOM ANGLE INDICATOR PLATE & MOUNTING HARDWARE, (see Figure 2-1 for details)	
	0274067	Ref	SKYTRAK DECAL INSTALLATION, (not available to order, (6036) , see item 101 for service)	B
	0274038	Ref	SKYTRAK DECAL INSTALLATION, (not available to order, (6042) , see item 101 for service)	B
101	1706176	2	BOOM DECAL, SKYTRAK	



DECALS

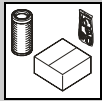
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RECOMMENDED SPARE PARTS



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

Part Number	Description	Qty./Machine
Boom Assembly		
2713452	Tilt Cylinder Hose, (see Figure 8-7)	2
2716714	Boom Hose, (see Figure 8-7)	2
7079572	Wear Pad, (see Section 2)	AR
7111572	High Capacity Wear Pad, (see Section 2)	AR
7082311	Insert, Wear Pad, (see Section 2)	AR
7082342	Shim, 0.075, (see Section 2)	AR
7082362	Shim, 0.134, (see Section 2)	AR
7096702	Wear Pad Spacer, 0.50, (see Section 2)	AR
7096772	Wear Pad Spacer, 0.62, (see Section 2)	AR
7096882	Wear Pad Spacer, 0.62, (see Section 2)	AR
7085442	Wear Pad Spacer, 0.88, (see Section 2)	AR
Engine		
713977	Filler Breather Assembly, (see Figure 9-12)	1
1001121646	Fan, (if equipped for ULS) , (see Figure 4-1)	1
1001098559	Fan, (if equipped for LS) , (see Figure 4-1)	1
70024274	Fan Belt, (if equipped for ULS) , (see Figure 4-2)	1
70024285	Fan Belt, (if equipped for LS) , (see Figure 4-2)	1
Drive Train		
1600429	Transmission Selector Control, (see Figure 7-3)	1
1319726	Transmission Filter, (see Figure 5-31)	1
1319472	Wheel Hub Bearing, (see Section 5)	8
Hydraulic System		
8224045	Boom Joystick Assembly, (see Figure 7-4)	1
8036502	Boom Extend/Retract Cylinder Seal Kit, (see Figure 9-2)	1
8036782	Boom Lift/Lower Cylinder Seal Kit, (6036) , (see Figure 9-1)	1
8036132	Boom Lift/Lower Cylinder Seal Kit, (6042) , (see Figure 9-1)	1
8035326	Frame Level Cylinder Seal Kit, (see Figure 9-5)	1
8035720	Attachment Tilt Cylinder Seal Kit, (see Figure 9-3)	1
8036747	Stabil-Trak Cylinder Seal Kit, (see Figure 9-6)	1
7028739	Tilt Compensation Cylinder Seal Kit, (see Figure 9-4)	1
2915023	Swing Carriage Cylinder Seal Kit, (see Figure 9-8)	1
70022041	Side Tilt Carriage Cylinder Seal Kit, (see Figure 9-7)	1
70021452	Grapple Bucket Cylinder Seal Kit, (see Figure 9-9)	1
7138740	Tank Strainer, (see Figure 9-12)	1
7139077	Filler/Breather, (see Figure 9-12)	1
7024441	Fluid Level Sight Gauge, (see Figure 9-12)	1
Electrical		
7118222	Fuel Level Sender Assembly, (see Figure 9-12)	1
8270621	Backup Alarm, (see Figure 10-1)	1
4360690	Ignition Switch, (see Figure 10-3)	1
70024276	Alternator, (if equipped for ULS) , (see Figure 4-2)	1
70021849	Alternator, (if equipped for LS) , (see Figure 4-2)	1

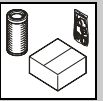


RECOMMENDED SPARE PARTS

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

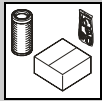
Part Number	Description	Qty./Machine
8270620	Horn, (see Figure 10-2)	1
	Misc.	
8035807	Ignition Key With Cover, (see Figure 10-3)	1
8342808	Engine Cover Key, (see Figure 1-1)	1
70021948	Door Key, (see Figure 6-3)	1
80904003	Hydraulic Test Kit	1
31200749	Operation & Safety Manual	1
31200796	Service Manual	1
31200731	Parts Manual	1
	Special Tools	
80304484	Pry Bar Set, ZF Axle	1
80304480	Two-armed Puller, ZF Axle	1
7025854	Two-armed Puller, ZF Axle	1
70010241	Threaded Ring, M105X3, ZF Axle	1
70010239	Two-armed Puller, 160-150mm, ZF Axle & Transmission	1
70023172	Gripping Insert Super, ZF Axle	1
70023173	Back-off Insert, Rear ZF Axle	1
70023174	Eye Bolt Assortment, ZF Axle & Transmission	1
70022872	Internal Extractor, 45-58mm, ZF Axle & Transmission	1
70022873	Internal Extractor, 70-100mm, ZF Axle	1
70022871	Counter Support, Rear, ZF Axle & Transmission	1
7029740	Driver, ZF Axle	1
7029739	Driver, ZF Axle	1
7029738	Driver, ZF Axle	1
70010244	Internal Extractor, ZF Axle	1
70010245	Counter Support, ZF Axle	1
70022866	Spanner, ZF Axle	1
70022867	Torque Spanner, 5-45Nm, ZF Axle	1
80304492	Wheel Bolt Puller Basic Set, ZF Axle	1
70110101	Driver, ZF Axle	1
80304498	Handle, ZF Axle	1
70010281	Slotted Nut Wrench, ZF Axle	1
70010283	Installer, ZF Axle	1
70010284	Installer, ZF Axle	1
80304497	HP-Pump, ZF Axle	1
7025856	Striker, ZF Axle	1
70010243	Measuring Hub, 9/16in-18UNF	1

RECOMMENDED SPARE PARTS



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

Part Number	Description	Qty./Machine



RECOMMENDED SPARE PARTS

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

Part Number	Description	Qty./Machine



Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
0100009	10-27	1001090064	3-5	1001100823	3-21	1001116693	10-43
0100011 .. 3-5, 4-3, 4-7, 4-23,		1001090134	9-19	1001100824	3-21	1001116727	10-30, 10-34,
4-27, 4-29, 7-9,		1001090140	3-5	1001101043	10-8	10-39	
7-11		1001091752	9-29	1001101085	6-17	1001116728	10-30, 10-31,
0100019	1-3	1001091885	9-13	1001101115	3-11	10-34, 10-35,	
0240156	3-19	1001091901	9-13	1001101116	3-11	10-39	
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