

SKYTRAK[®]

Illustrated Parts Manual

Model
12054

PVC
2111

P/N
31211744

November 1, 2023 - Rev D

JLG[®]
An Oshkosh Corporation Company

EFFECTIVITY PAGE

November 1, 2021 - A - Original Issue of Manual (Edited to B/M 1001169973 Revision Q)

March 31, 2022 - B - Revised Manual (Edited to B/M 1001169973 Revision Q)

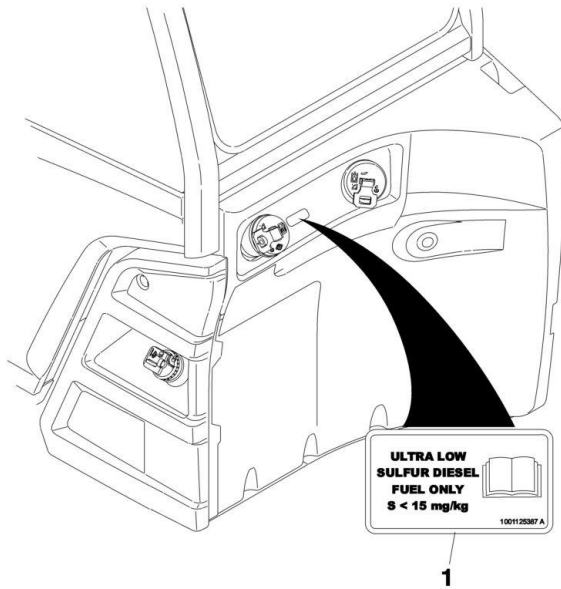
July 15, 2023 - C- Revised Manual (Edited to B/M 1001169973 Revision Q)

November 1, 2023 - D - Revised Manual (Edited to B/M 1001169973 Revision Q)

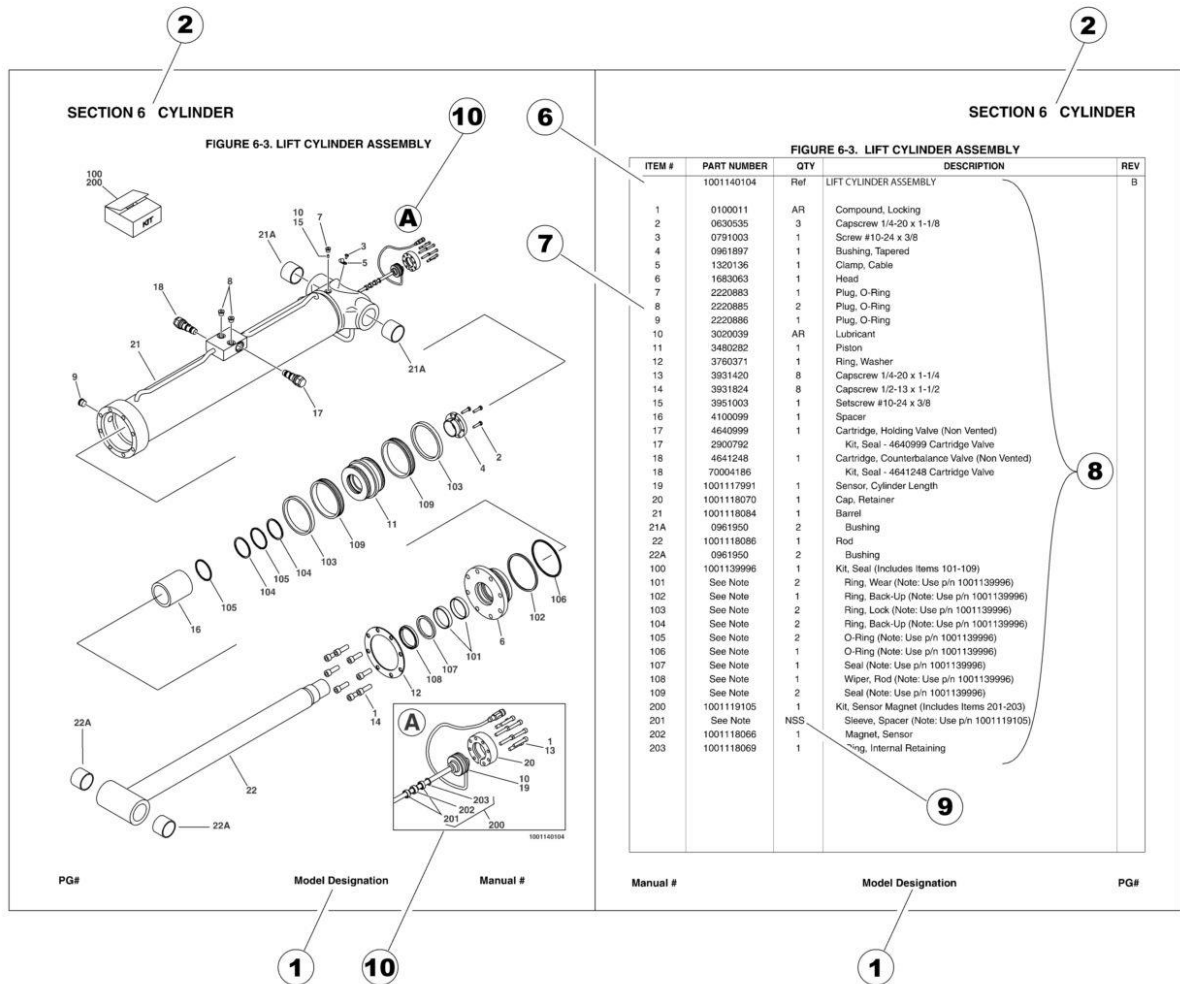
Machine Configuration

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

- 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 models, serial number (SN) or regional standard (i.e ANSI, CE, CSA). Components may also be identified by SN or manufacturer. Common components that may be identified by these characteristics are engines and hydraulic components.

2) PARTS MANUAL ORGANIZATION

Product information in this manual is organized under section titles. Frame, Cylinder, Hydraulic 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 (NOT SHOWN)

A table of contents 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 (NOT SHOWN)

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

5) PART NUMBER INDEX (NOT SHOWN)

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

GENERAL INFORMATION

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. In case of parts that are not available for service within assemblies or components, there will be a NSS (Not Sold Separately) or NLA (No Longer Available) listed in the Qty. 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 the sequence in the parts list are not used on that page.

8) INDENTED PARTS DESCRIPTION

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

9) ABBREVIATION AND SYMBOLS

AC.....	Alternating Current	L.....	Liter
ADE.....	Advanced Design Electronics	LB(LBS).....	Pounds
AG.....	Agricultural	LCD.....	Liquid Crystal Display
ANSI.....	American National Standards Institute	LED.....	Light Emitting Diodes
AR.....	As Required	LH.....	Left Hand
ASSY.....	Assembly	LRC.....	Low Rated Countries
AUS.....	Australia	LSS.....	Load Sensing System
AUX.....	Auxiliary	M(m).....	Metric/Meter
AWG.....	American Wire Gauge	MM(mm).....	Milimeter
B/M.....	Bill of Material	mA.....	Miliamps
CAC.....	Charge Air Cooler	NLA.....	No Longer Available
CE.....	European Conformity	NPT.....	National Pipe Threads
CCW.....	Counter Clockwise	NSS.....	Not Sold Separately
CM.....	Centimeter	OD.....	Outside Diameter
CW.....	Clockwise	ORB.....	O-Ring Boss
CSA.....	Canadian Standards Association	ORFS.....	O-Ring Face Seal
CYL.....	Cylinder	OZ (oz).....	Ounces
DIA.....	Diameter	PG.....	Page
DC.....	Direct Current	PN.....	Part Number
DEF.....	Diesel Exhaust Fluid	QT(qt.).....	Quarts
EMS.....	Emergency Stop	QTY.....	Quantity
ENG.....	Engine	REF.....	Reference
FT(ft).....	Feet	REV.....	Revision Level
GA(Ga).....	Gauge	RH.....	Right Hand
HRC.....	High Rated Countries	SAE.....	Society of Automotive Engineers
HVAC.....	Heating, Ventilating, and Air Conditioning	SN.....	Serial Number
HYD.....	Hydraulic	SPEC(S).....	Specifications
Hz.....	Hertz	T/T.....	Turntable
ID.....	Inside Diameter	UGM.....	Universal Ground Module
IN.....	inches	V.....	Volts
ISO.....	International Organization for Standards	W.....	Watts
JIC.....	Joint Industry Council	#.....	Number
KG.....	Kilogram		

10) ILLUSTRATION REFERENCE LETTERS

When necessary, illustrations may contain reference letters that are intended to track information (i. e. hoses, harnesses) from one point to another or to track visual enlargement of components to show details that may be located in another area on 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.

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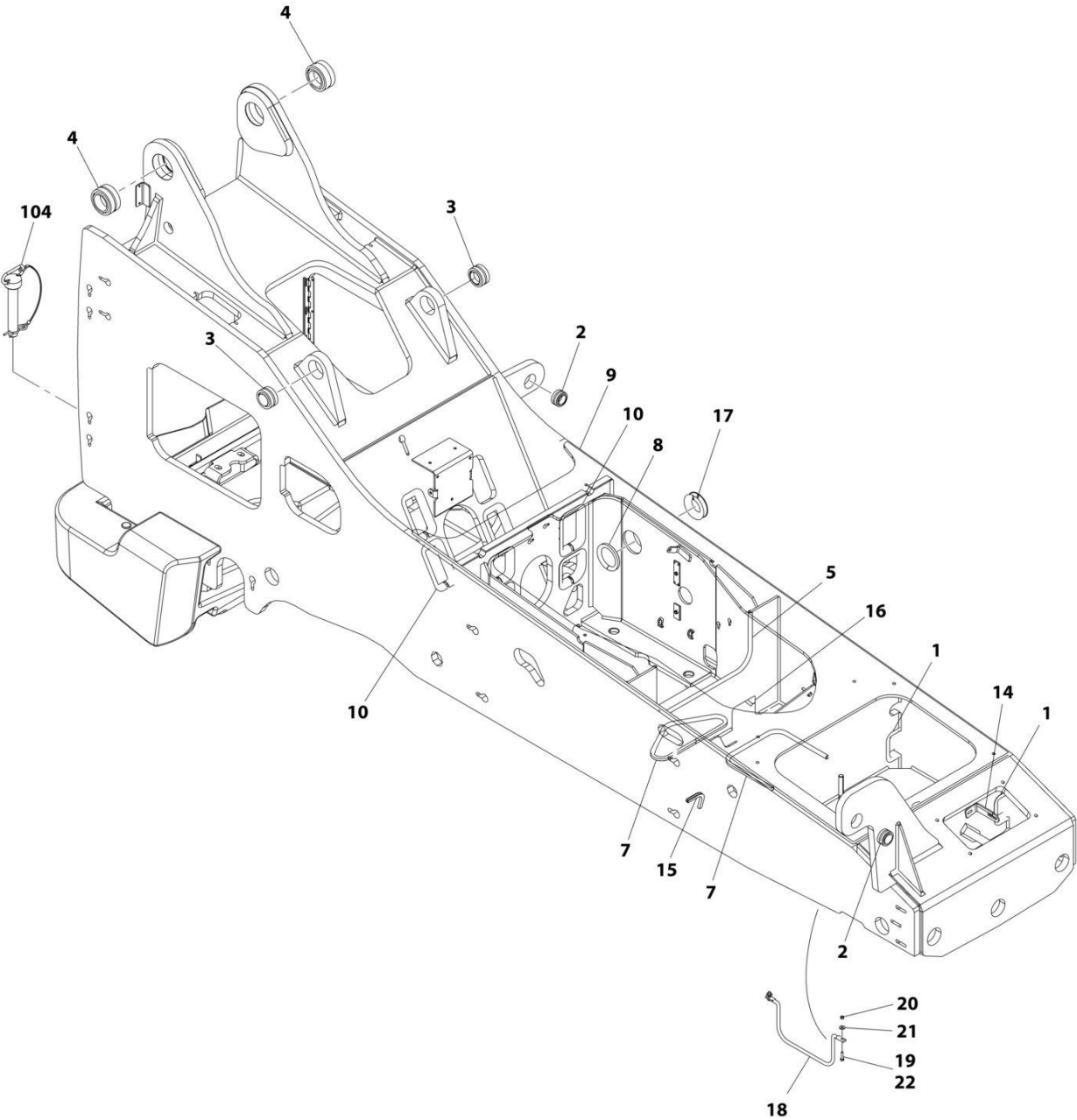
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SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. FRAME COMPONENTS INSTALLATION



ART_1001241711-B

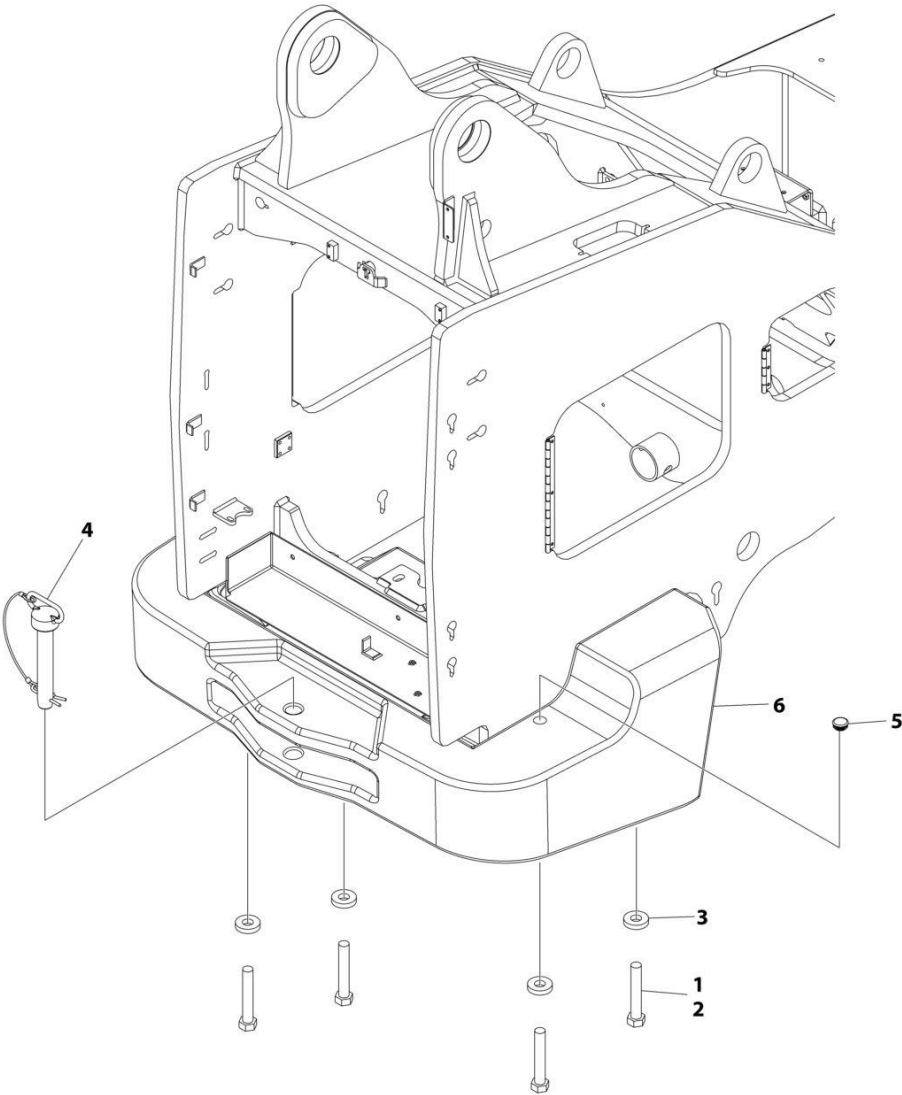
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. FRAME COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241711	Ref	Frame Components Installation	B
1	7124451	4	Conduit, 1X8	
2	8050001	2	Bearing, Self-Align	
3	8065640	4	Bearing, Self-Align	
4	8065641	2	Bearing, Self-Align	
5	1001172658	1	Conduit, 1/2X41	
7	1001177190	2	Conduit, 1/2X28	
8	1001177192	1	Conduit, 1/2X12-1/2	
9	N.S.S.	1	Weldment, Frame	
10	1001174227	7	Conduit, 1X21-1/2	
14	4060804	4 in	Shield, Flex Trim 3/16	
15	4060805	6 in	Shield, Flex Trim 1/4	
16	7124301	2	Conduit, 1/2X15-1/2	
17	7124471	2	Conduit, 1X12-1/2	
18	1001165057	1	Bracket, Cab Hose	
19	0641510	2	Bolt, 5/16-18X1	
20	8305006	2	Nut, Hex 5/16-18	
21	8307203	2	Washer, Plain 5/16	
22	0100011	AR	Compound, Locking	

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FIGURE 1-2. COUNTERWEIGHT INSTALLATION



ART_1001246923

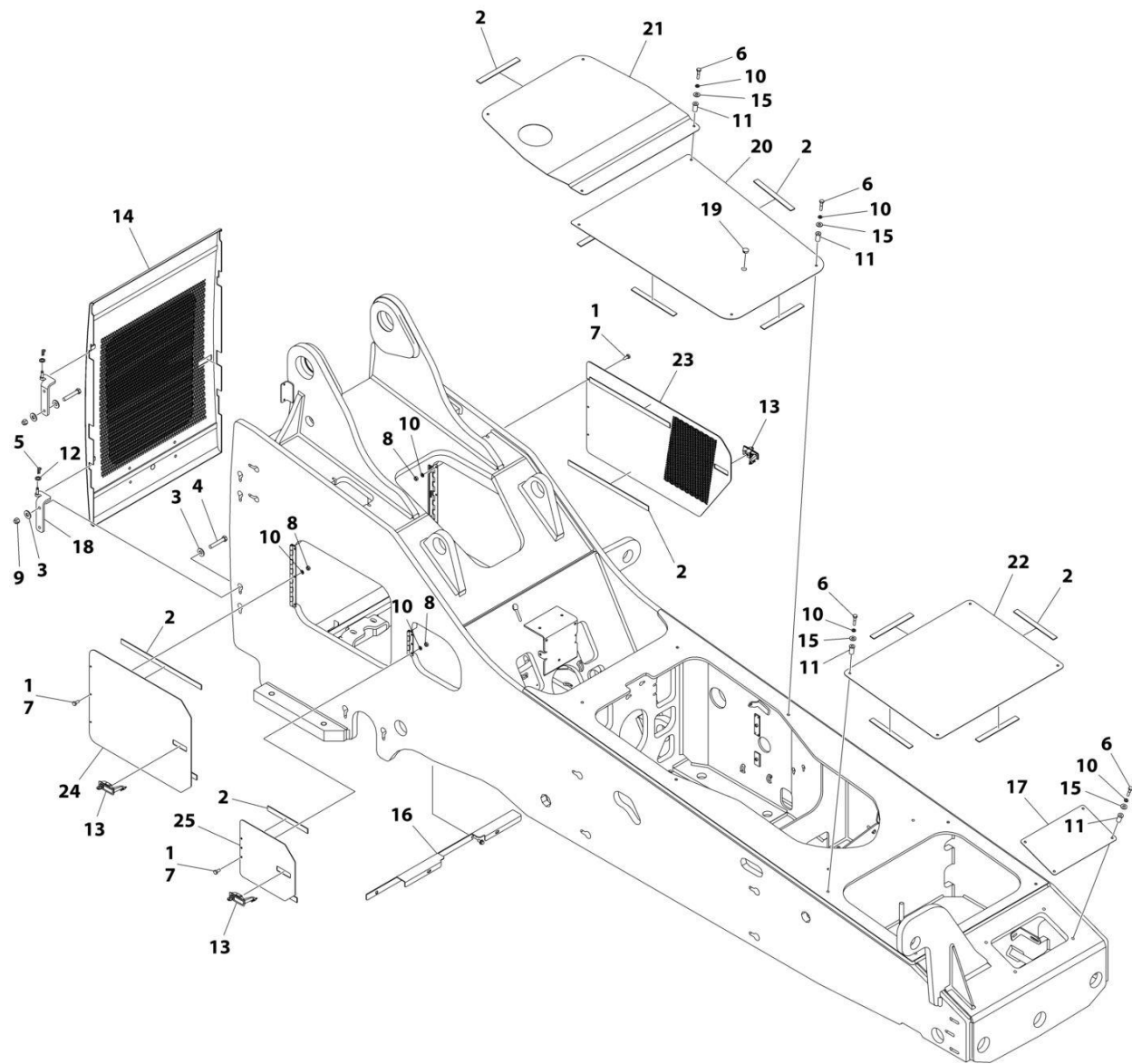
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FIGURE 1-2. COUNTERWEIGHT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001246923	Ref	COUNTERWEIGHT INSTALLATION	B
1	0100019	AR	Compound, Locking	
2	0682648	4	Bolt 1 x 6 Grade 8	
3	80241137	4	Washer	
4	1001160250	1	Pin, Hitch	
5	1001195952	2	Plug	
6	1001246922	1	Counterweight	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. FRAME COVERS INSTALLATION



ART_1001242031

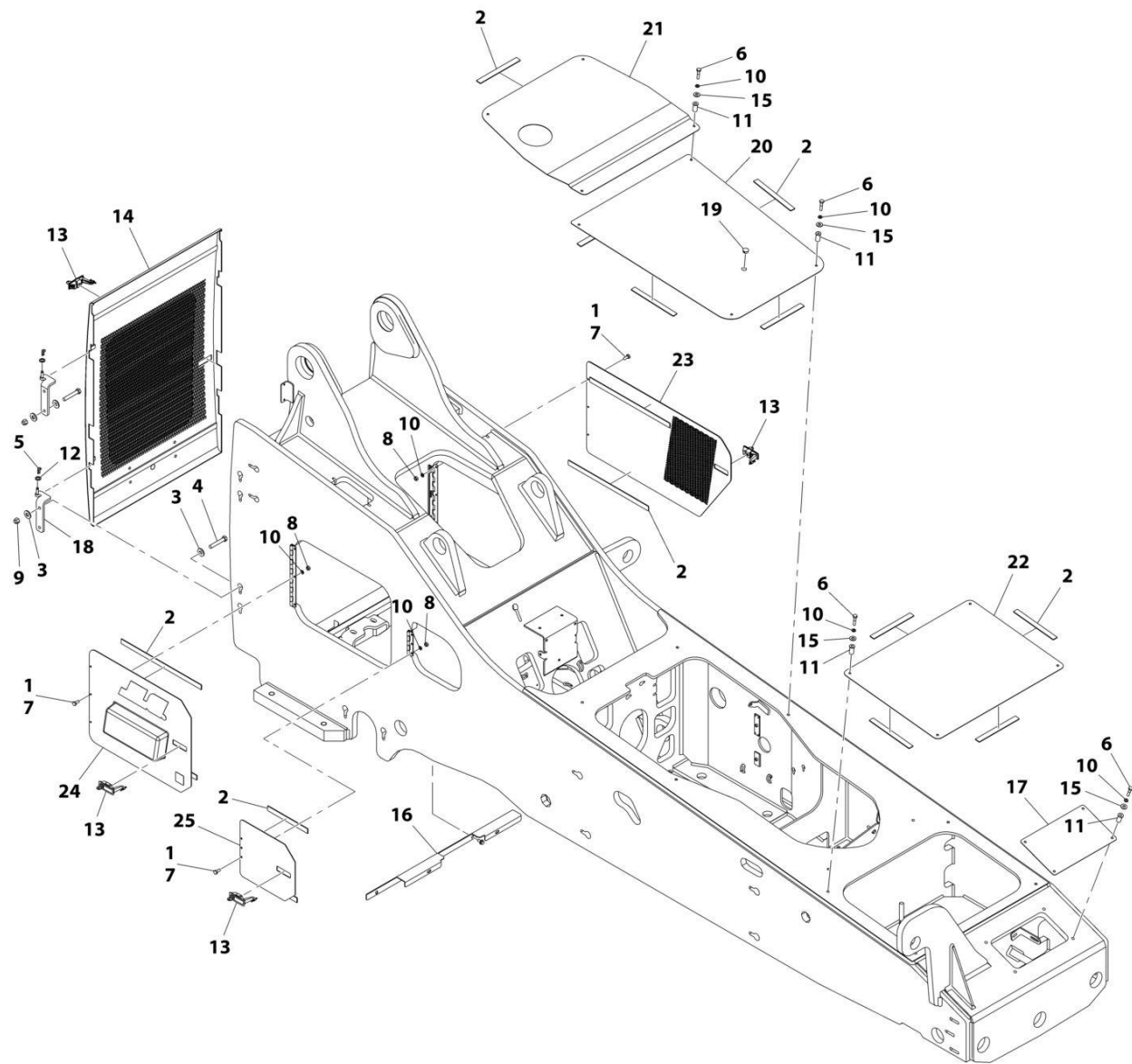
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. FRAME COVERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242031	Ref	FRAME COVERS INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	4420037	190 in	Tape, Insulation	
3	8307204	8	Washer 3/8	
4	0641618	4	Bolt 3/8 x 2-1/4	
5	8302470	2	Pin, Hair	
6	8303615	14	Bolt 1/4 x 1-1/4	
7	8303729	9	Bolt 1/4 x 5/8	
8	8305004	9	Nut 1/4	
9	8305645	4	Nut 3/8	
10	8307002	23	Washer 1/4	
11	8580420	14	Nut, Well	
12	10732150	2	Washer M10	
13	1001190341	3	Latch, Adjustable Trigger	
14	1001242032	1	Assembly, Rear Door	
15	8307202	14	Washer 1/4	
16	1001127864	1	Installation, Dust Shield (See Separate Breakdown in this Section)	
17	1001192390	1	Cover, Front	
18	1001159319	2	Mount, Rear Door	
19	3520030	1	Plug, Hole	
20	1001242035	1	Cover, Lower Transmission	
21	7139407	1	Cover, Upper Transmission	
22	7139047	1	Cover, Counterweight	
23	1001169006	1	Panel, Left Side Access	
24	1001171384	1	Panel, Engine Access Right Side	
25	1001171385	1	Panel, Air Cleaner Access	

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FIGURE 1-4. FRAME COVERS INSTALLATION W/AIR SHUT OFF VALVE



ART_1001244085-C

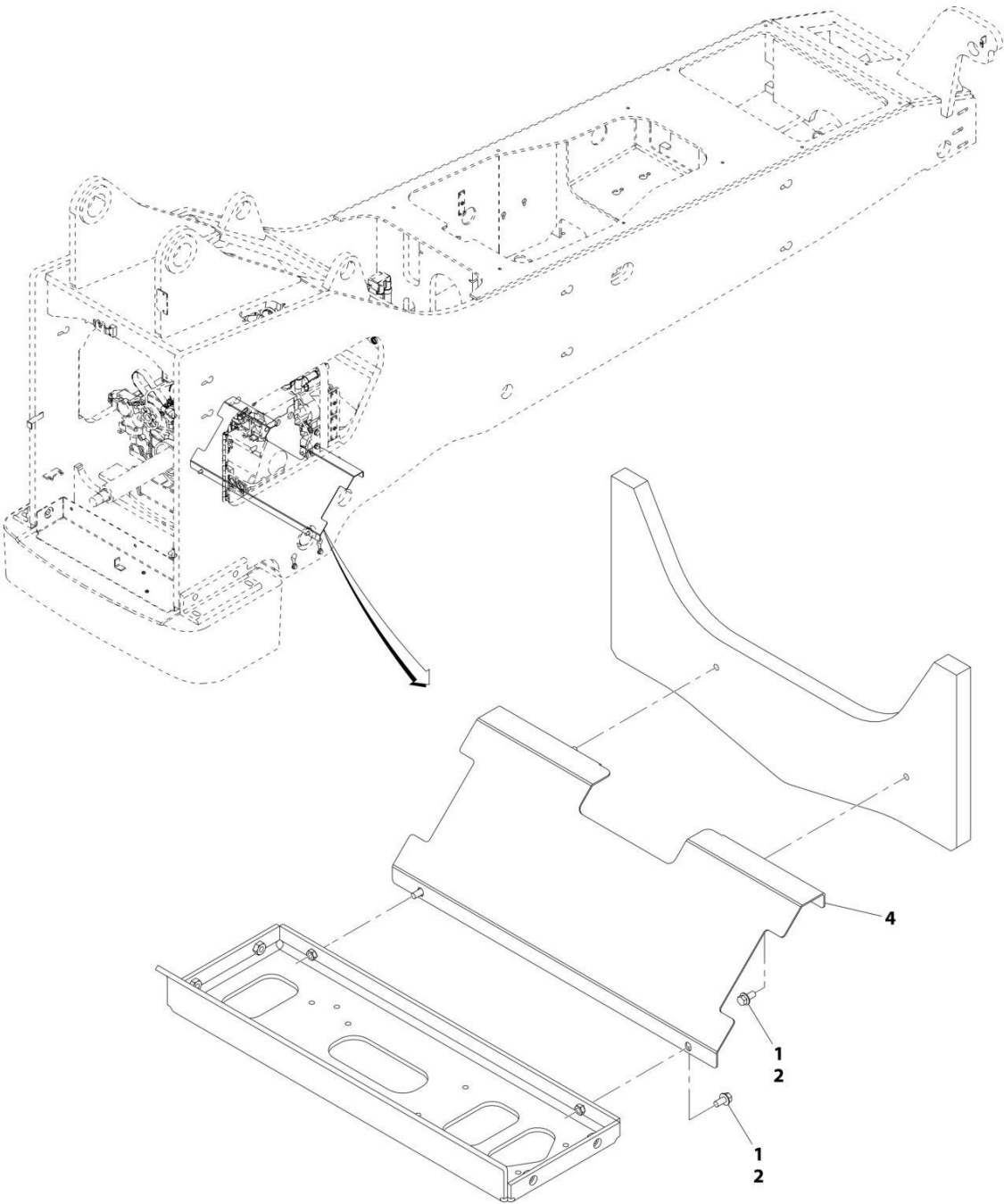
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-4. FRAME COVERS INSTALLATION W/AIR SHUT OFF VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244085	Ref	Frame Covers Installation W/Air Shut Off Valve	C
1	0100011	AR	Compound, Locking	
2	4420037	190 in	Tape, Insulation	
3	8307204	8	Washer, 3/8	
4	0641618	4	Bolt, 3/8-16X2-1/4	
5	8302470	2	Pin, Hair	
6	8303615	14	Bolt, 1/4-20X1-1/4	
7	8303729	9	Bolt, 1/4-20X5/8	
8	8305004	9	Nut, Hex 1/4-20	
9	8305645	4	Nut, Lock 3/8-16	
10	8307002	23	Washer, Lock 1/4	
11	8580420	14	Nut, Well	
12	10732150	2	Washer, Flat M10	
13	1001190341	4	Latch, Adjustable Trigger	
14	1001242032	1	Assembly, Door Rear	
15	8307202	14	Washer, Plain 1/4	
16	1001127864	1	Installation, Dust Shield (See Separate Breakdown in this Section)	
17	1001192390	1	Cover, Front	
18	1001159319	2	Mount, Rear Door	
19	3520030	1	Plug, Hole	
20	1001242035	1	Cover, Lower Transmission	
21	7139407	1	Cover, Upper Transmission	
22	7139047	1	Cover, Counterweight	
23	1001169006	1	Panel, Left Side Access	
24	1001216291	1	Panel, Engine Access Right Side	
25	1001171385	1	Panel, Air Cleaner Access	

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FIGURE 1-5. DUST SHIELD INSTALLATION



ART_1001127864-B

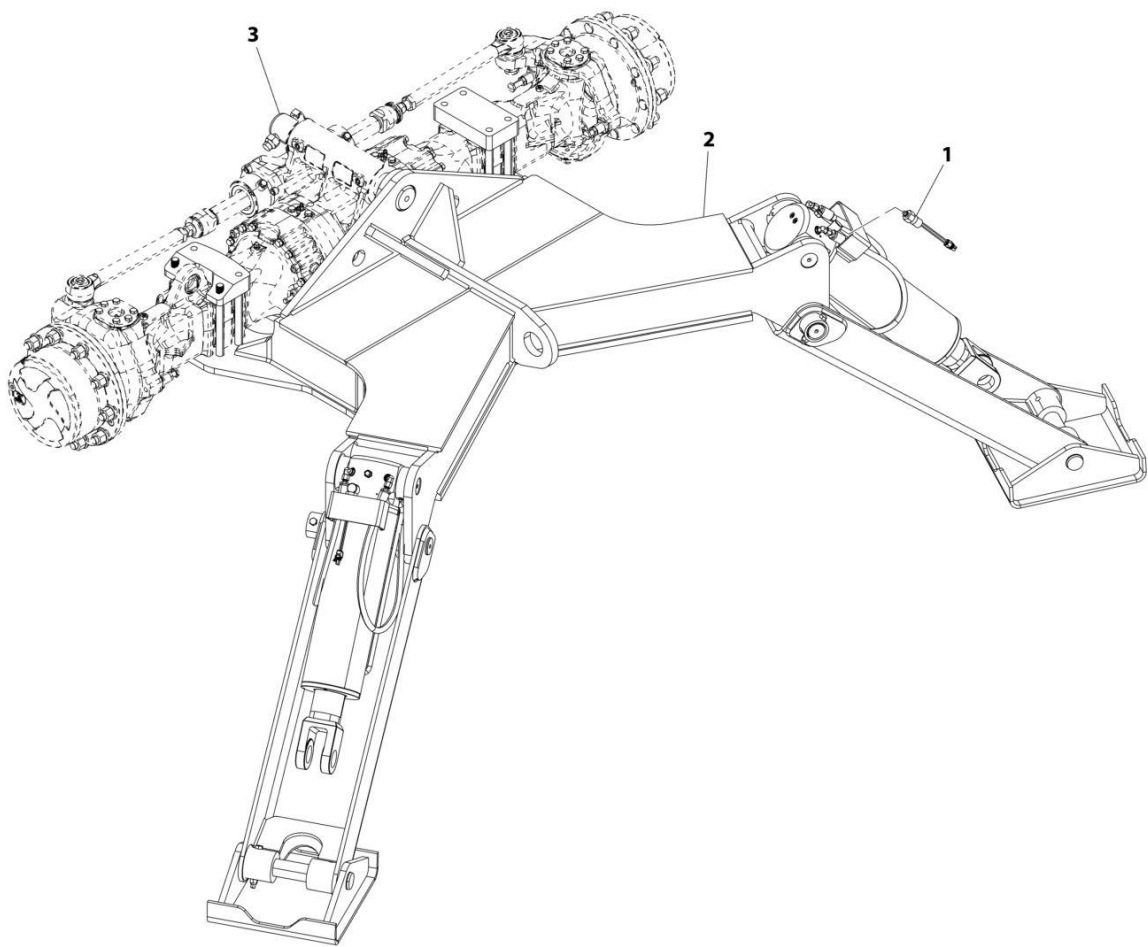
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FIGURE 1-5. DUST SHIELD INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127864	Ref	Dust Shield Installation	B
1	0100011	AR	Compound, Locking	
2	0791606	4	Bolt, 3/8-16X3/4	
4	1001127867	1	Panel, Dust Baffle Front	

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FIGURE 1-6. OUTRIGGER INSTALLATION



ART_1001242960-B

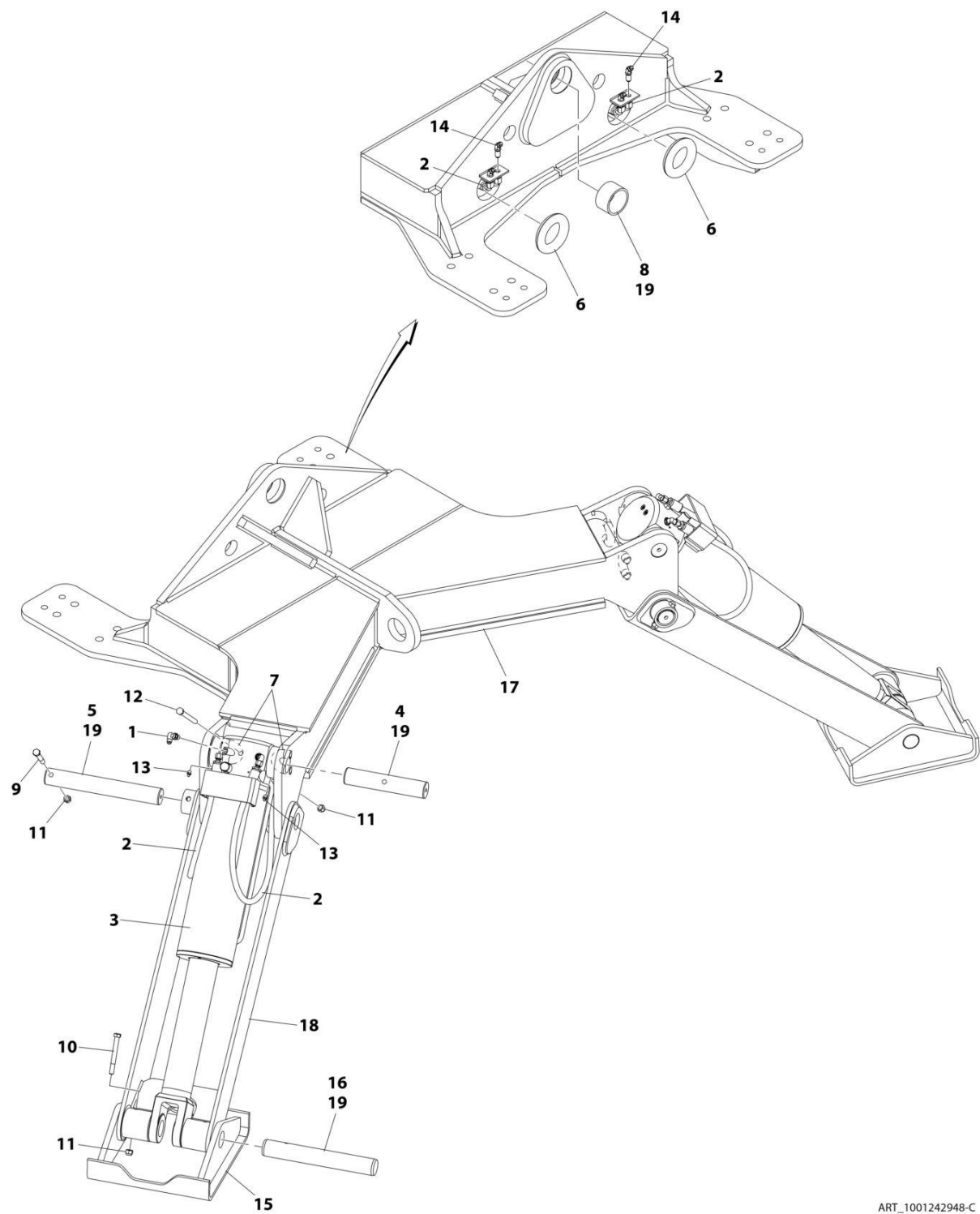
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FIGURE 1-6. OUTRIGGER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242960	Ref	Outrigger Installation	B
1	8223536	2	Switch, Pressure	
2	1001242948	1	Installation, Outriggers Sub-Assembly (See Separate Breakdown in this Section)	
3	1001242959	1	Installation, Outriggers Mounting (See Separate Breakdown in this Section)	

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FIGURE 1-7. OUTRIGGER SUB-ASSEMBLY INSTALLATION



ART_1001242948-C

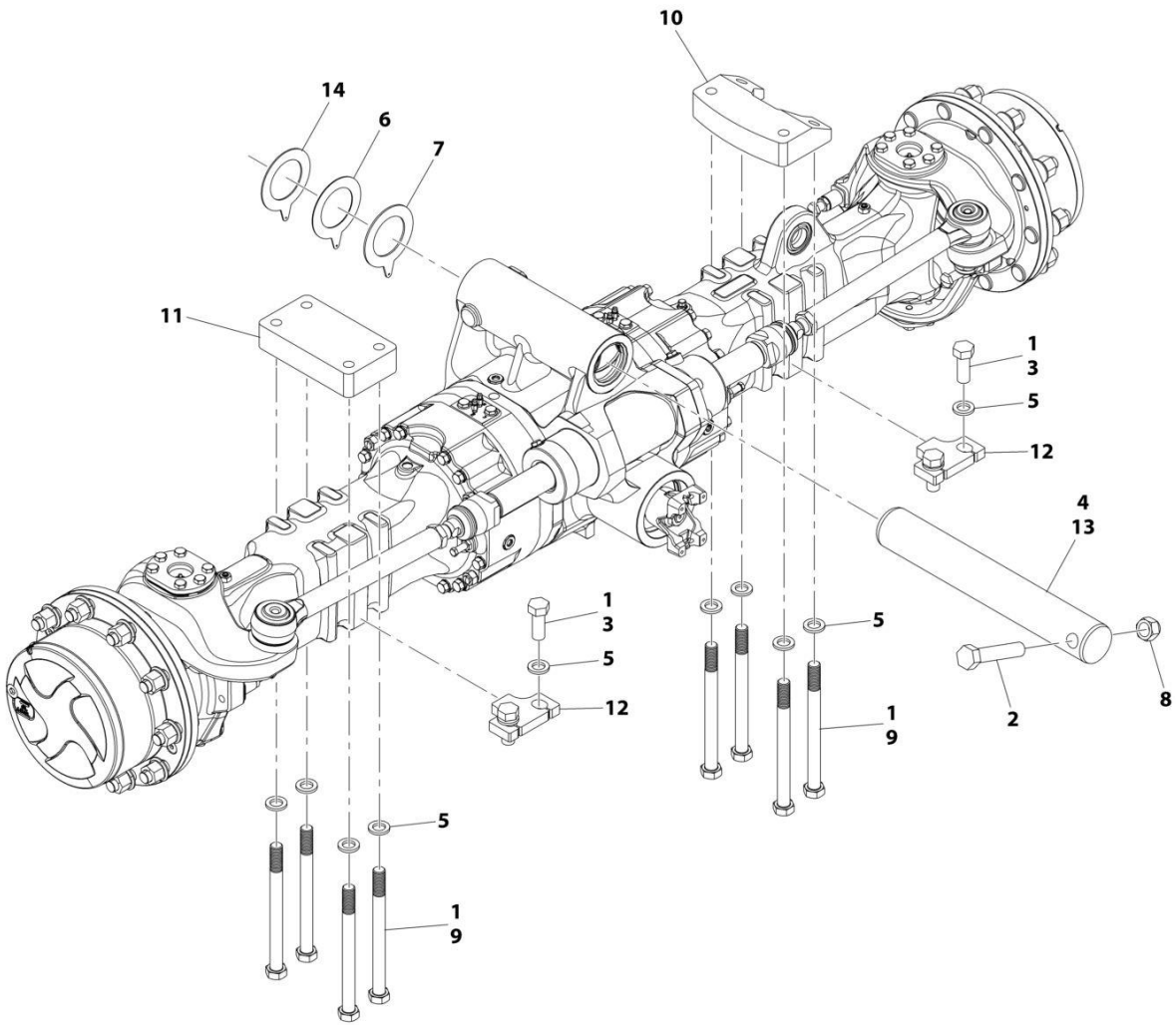
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FIGURE 1-7. OUTRIGGER SUB-ASSEMBLY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242948	Ref	Outrigger Sub-Assembly Installation	C
1	2220473	4	Adapter, 90	
2	2716709	4	Hose	
3	1001239183	2	Cylinder, Outrigger (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
4	7090871	2	Pin, Cylinder Pivot Outrigger	
5	7090891	2	Pin, Leg Pivot Outrigger	
6	7124491	2	Conduit, 1X15-1/2	
7	7125801	4	Conduit, 3/4X4	
8	8065063	1	Bushing	
9	8303628	2	Bolt, 1/2-13X3-3/4	
10	8303629	2	Bolt, 1/2-13X4-1/2	
11	8305644	6	Nut, Lock 1/2-13	
12	0641864	2	Bolt	
13	8520001	8	Fitting, Straight Lube 1/8	
14	8770189	4	Adapter, 45	
15	1001141892	2	Stabilizer, Pad Weld	
16	1001147515	2	Pin, Outrigger Shoe	
17	1001242920	1	Weldment, Stabilizer Frame	
18	1001244577	2	Weldment, Stabilizer Leg	
19	8522012	AR	Lube, Anti-Seize	

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FIGURE 1-8. OUTRIGGER MOUNTING INSTALLATION



ART_1001242959-C

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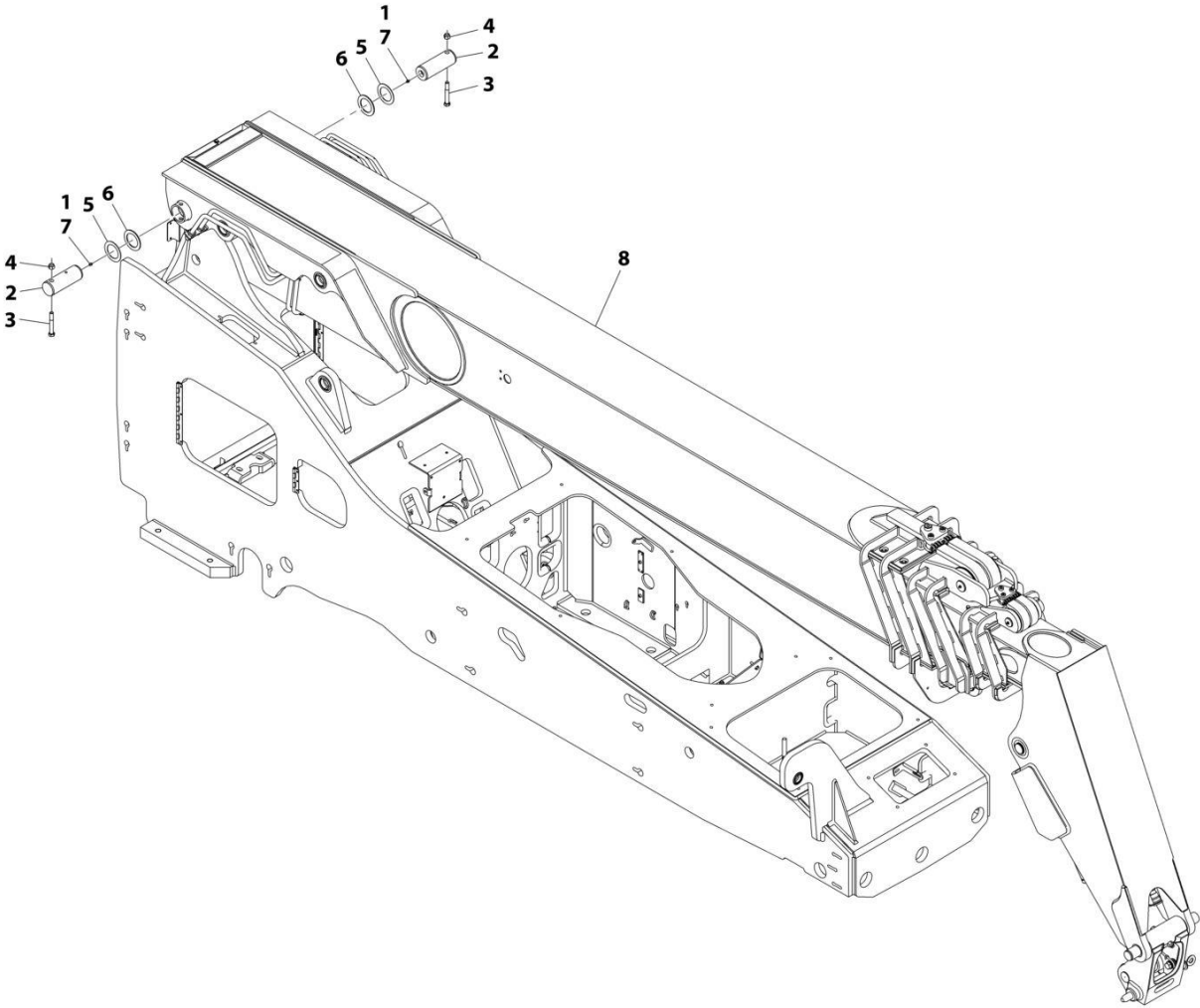
FIGURE 1-8. OUTRIGGER MOUNTING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242959	Ref	Outrigger Mounting Installation	C
1	0100019	AR	Compound, Locking	
2	0642640	1	Bolt, 1-8X5	
3	0682418	4	Bolt, 7/8-9X2	
4	3423248	1	Pin, Axle/Outrigger	
5	4892400	12	Washer	
6	1001245213	AR	Washer, Shim 0.06	
7	1001245215	AR	Washer, Shim 0.12	
8	8310116	1	Nut, Lock 1-8	
9	1001250165	8	Bolt	
10	1001232517	1	Brace	
11	1001232518	1	Brace	
12	1001244592	2	Stop, Block Outrigger	
13	8522012	AR	Lube, Anti-Seize	
14	1001245214	AR	Washer, Shim 0.09	

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FIGURE 2-1. BOOM INSTALLATION



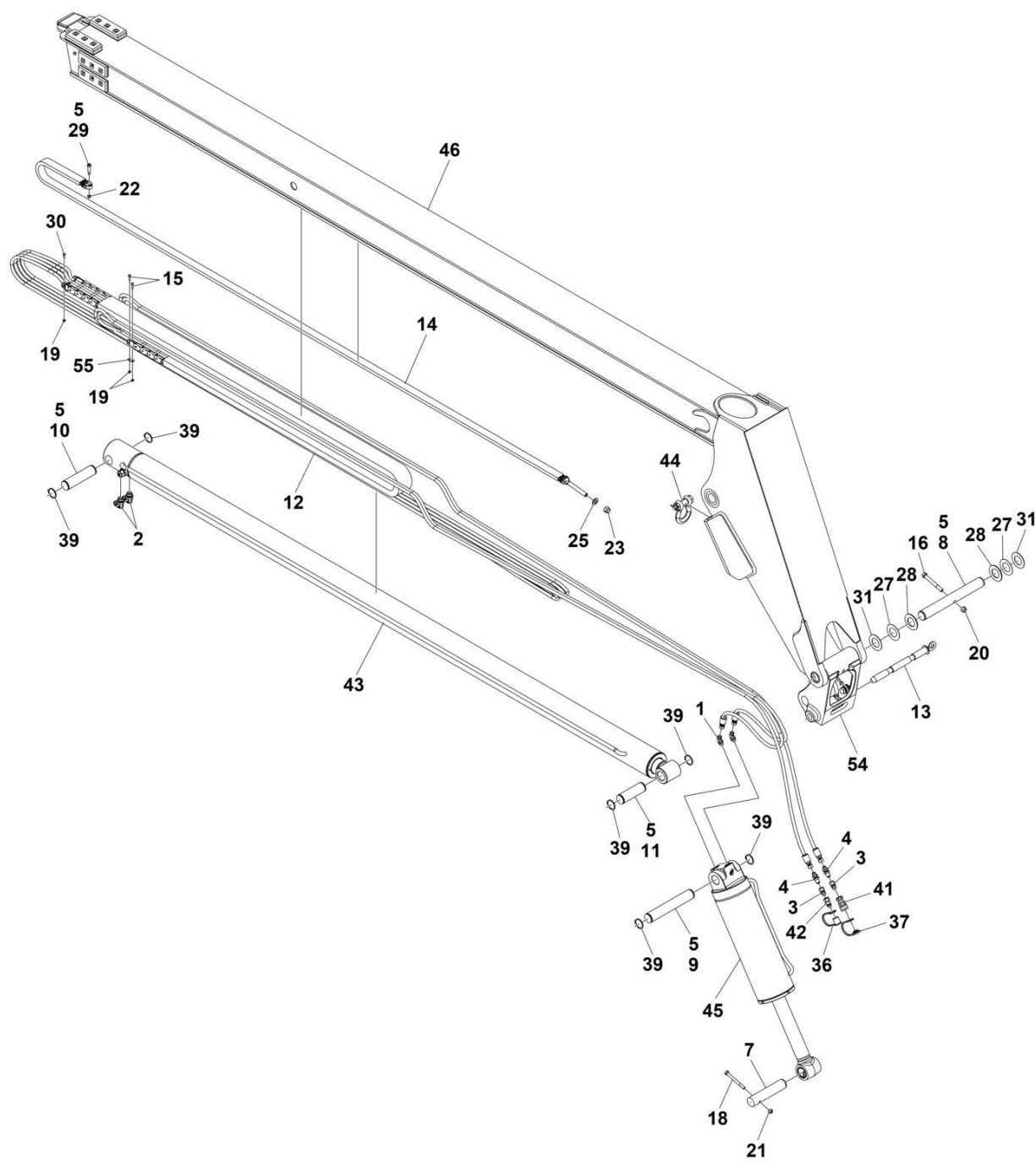
ART_1001239473-A

FIGURE 2-1. BOOM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239473	Ref	Boom Installation	A
1	3020039	AR	Lube	
2	3423226	2	Pin, Boom Pivot	
3	8303655	2	Bolt, 5/8-11X4-1/2	
4	8305643	2	Nut, Lock 5/8-11	
5	8307910	AR	Washer, Shim	
6	8307911	AR	Washer, Shim	
7	8520013	2	Fitting, Straight Lube 1/8	
8	1001239474	1	Boom, Assembly (See Separate Breakdown in this Section)	

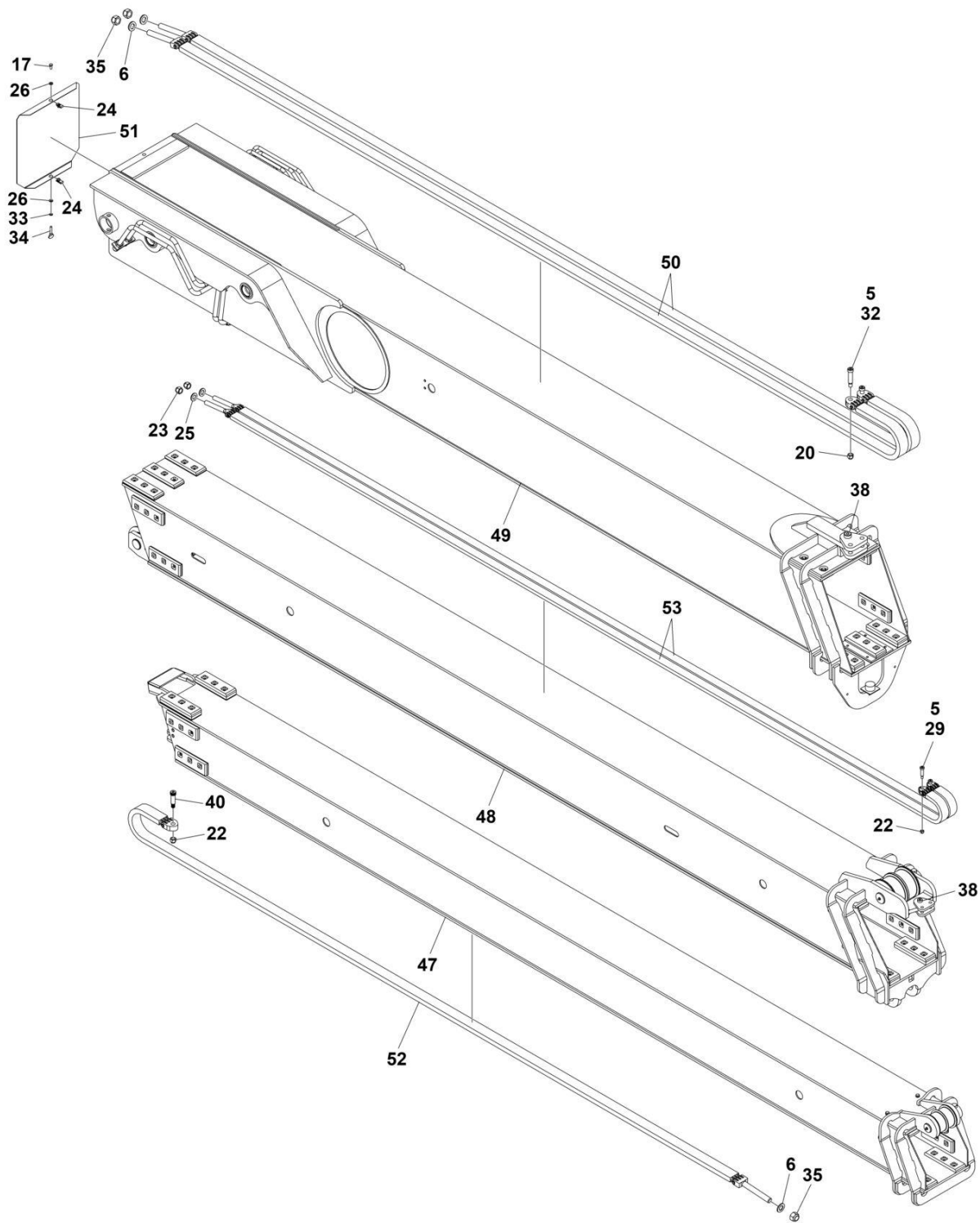
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FIGURE 2-2. BOOM ASSEMBLY



ART_1001239474_E_1OF2

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ART_1001239474_E_2OF2

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FIGURE 2-2. BOOM ASSEMBLY

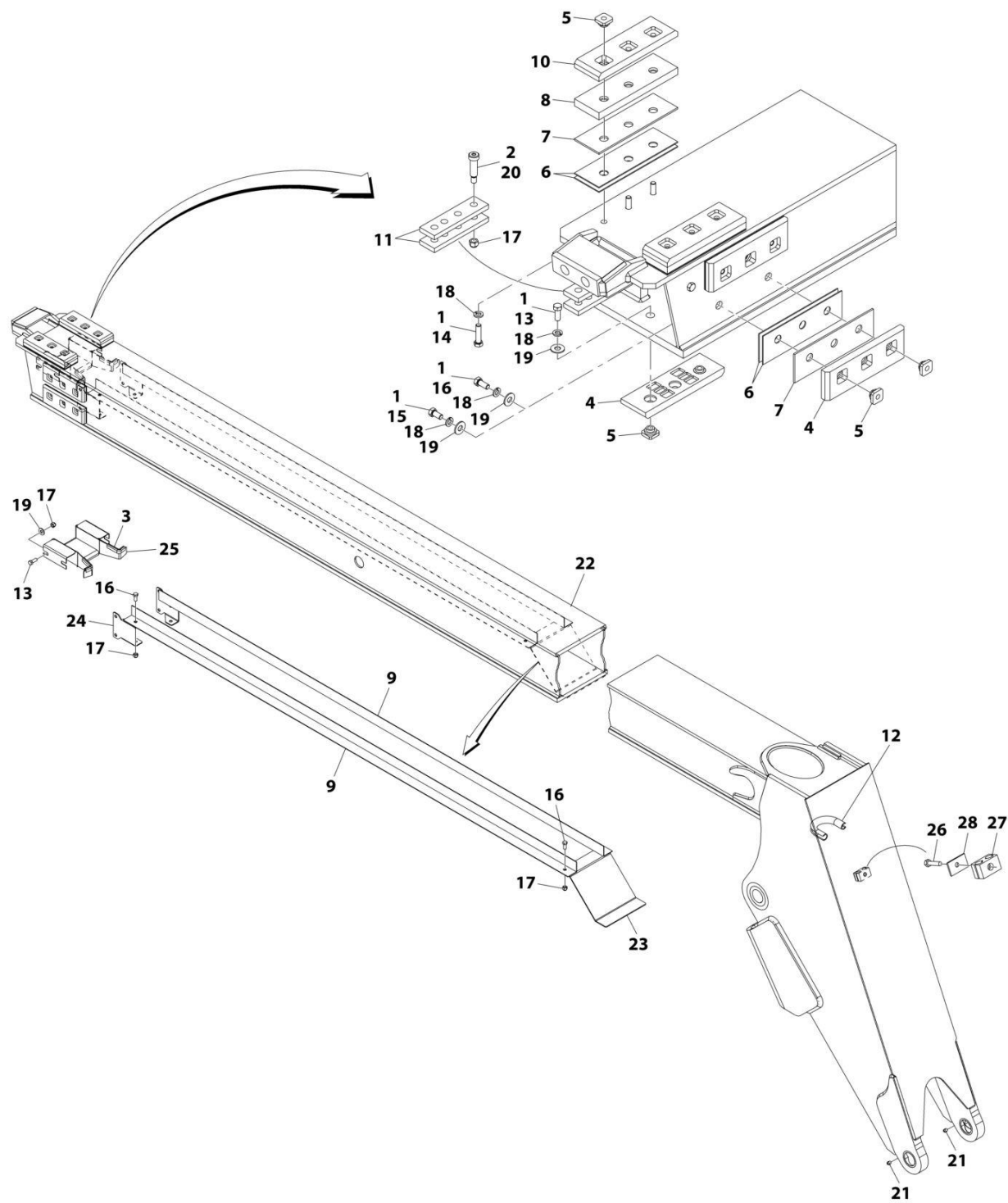
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239474	Ref	Boom Assembly	E
1	2220500	2	Adapter, 45	
2	2220578	2	Adapter, 90	
3	2220651	2	Adapter, Bulkhead Straight	
4	2230025	2	Adapter, Bulkhead Straight	
5	3020039	AR	Lube	
6	4812700	3	Washer	
7	7083992	1	Pin, Rod End	
8	7095352	1	Pin, Carriage Pivot	
9	7095522	1	Pin, Base End	
10	7096552	1	Pin, Base End	
11	7096562	1	Pin, Rod End	
12	7112452	1	Assembly, Hose and Carrier (See Separate Breakdown in this Section)	
13	7118892	1	Assembly, Lock Pin	
14	7139692	1	Assembly, Retract Chain and Clevis (See Separate Breakdown in this Section)	
15	0641409	4	Bolt, 1/4X1-1/8	
16	8303666	1	Bolt, 5/8-11X5	
17	8303697	1	Bolt, 5/16-18X3/4	
18	8303772	1	Bolt, 1/2-13X5	
19	8305624	8	Nut, Lock 1/4-20	
20	8305643	4	Nut, Lock 5/8-11	
21	8305644	1	Nut, Lock 1/2-13	
22	8305645	3	Nut, Lock 3/8-16	
23	8305646	3	Nut, Lock 3/4-16	
24	8305906	2	Nut, Retainer 5/16-18	
25	8307104	3	Washer, Plain 3/4	
26	8307106	2	Washer, Plain 5/16	
27	8307904	AR	Washer, Shim	
28	8307918	2	Washer, Shim	
29	8310019	3	Screw, Shoulder 1/2X1-1/2X3/8-16	
30	8310026	4	Bolt, 1/4-20X3/4	
31	8310093	AR	Washer, Shim	
32	8310205	2	Bolt, Shoulder 3/4X2-1/2X5/8-11	
33	8310431	1	Washer, Lock 5/16	
34	8310497	1	Screw, Thumb 5/16-18X1-1/2	
35	8310672	3	Nut	
36	8420053	1	Cap, Dust	
37	8420055	1	Plug, Dust	
38	8526406	AR	Sealant, Varnish	
39	8642224	6	Ring, Retaining	
40	88251074	1	Bolt	
41	91403413	1	Adapter, Quick Disconnect	
42	91403414	1	Adapter, Quick Disconnect	
43	1001156009	1	Extend/Retract Cylinder (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
44	1001204045	1	Clevis, Bolt	
45	1001258911	1	Tilt Cylinder (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	1001239475	1	Assembly, Fourth Boom Section (See Separate Breakdown in this Section)	
47	1001239476	1	Assembly, Third Boom Section (See Separate Breakdown in this Section)	
48	1001239477	1	Assembly, Second Boom Section (See Separate Breakdown in this Section)	
49	1001239478	1	Assembly, First Boom Section (See Separate Breakdown in this Section)	
50	1001241567	2	Chain	
51	1001242311	1	Cover Plate	
52	1001242608	1	Chain	
53	1001242923	2	Chain	
54	1001242996	1	Assembly, Coupler (See Separate Breakdown in this Section)	
55	1001258779	AR	Washer	
56	0761010	1	Bolt M10 x 20	
57	2221027	1	Fitting	
58	4812000	1	Washer M10	
59	1001272715	1	Plate	

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FIGURE 2-3. FOURTH BOOM SECTION ASSEMBLY



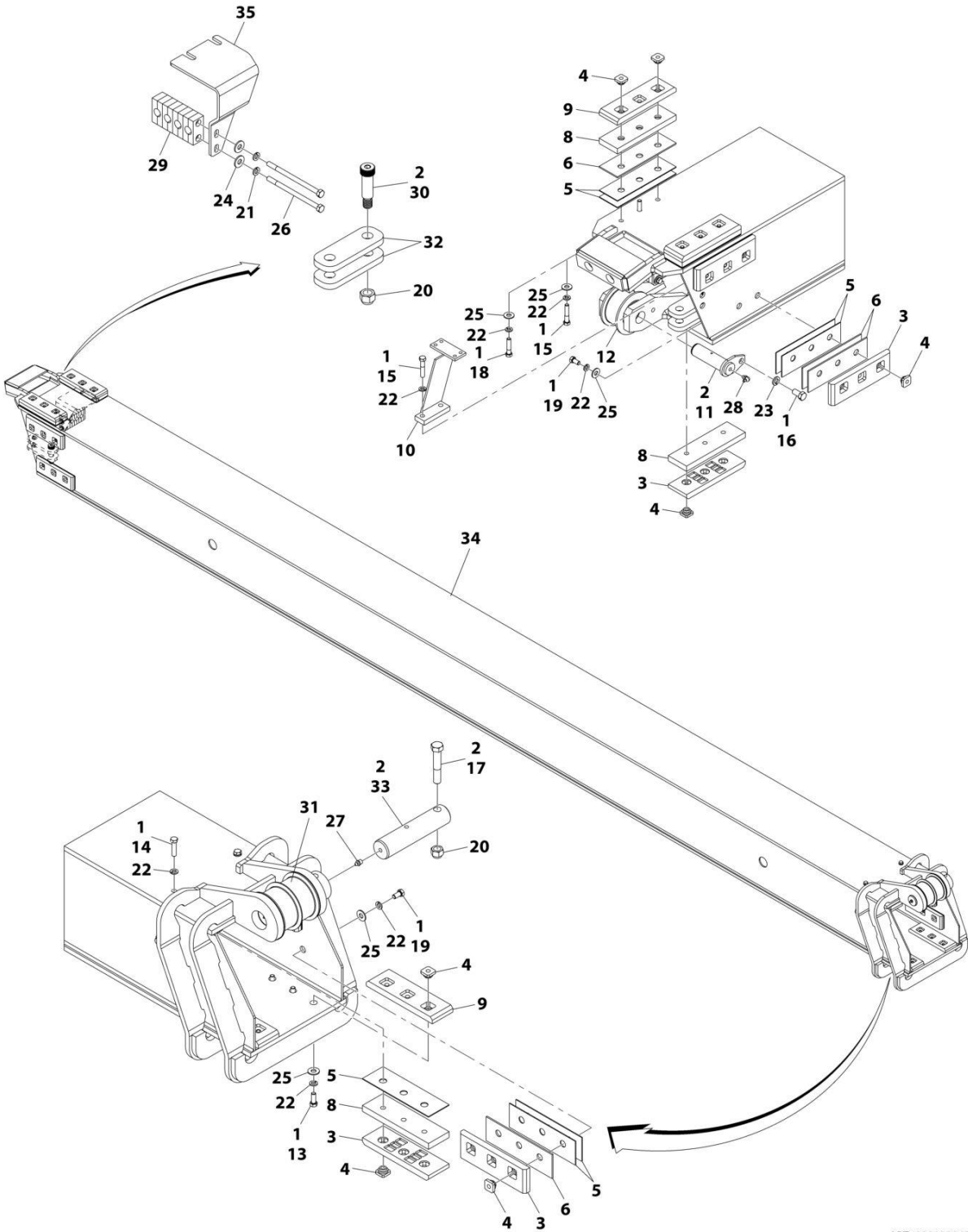
ART_1001239475-B

FIGURE 2-3. FOURTH BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239475	Ref	Fourth Boom Section Assembly	B
1	0100011	AR	Compound, Locking	
2	3020039	AR	Lube	
3	5746411	150 mm	Moulding	
4	7079572	5	Pad, Wear	
5	7082311	16	Insert, Wear Pad	
6	7082342	AR	Shim, Wear Pad	
7	7082362	AR	Shim, Wear Pad	
8	7096882	2	Spacer, Wear Pad	
9	7110172	2	Guide, Hose Carrier	
10	7111572	2	Pad, Wear	
11	7117031	2	Link	
12	7125811	1	Conduit, 3/4X8	
13	8303620	4	Bolt, 3/8-16X1	
14	8303621	6	Bolt, 3/8-16X1-1/2	
15	8303681	2	Bolt, 3/8-16X3/4	
16	8303738	10	Bolt, 3/8-16X7/8	
17	8305645	7	Nut, Lock 3/8-16	
18	8307005	16	Washer, Lock 3/8	
19	8307204	12	Washer, 3/8	
20	8310019	1	Screw, Shoulder 1/2X1-1/2X3/8-16	
21	8520001	2	Fitting, Straight Lube 1/8	
22	1001242203	1	Boom, Fourth Section	
23	1001242303	1	Bracket, Hose Support	
24	1001242305	2	Bracket, Hose Side Support	
25	1001248777	1	Bracket, Hose Carrier Support	
26	0641511	1	Bolt, 5/16-18X1-3/8	
27	8769122	1	Clamp Set, Twin 5/8	
28	8769123	1	Cover Plate, Twin	

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FIGURE 2-4. THIRD BOOM SECTION ASSEMBLY



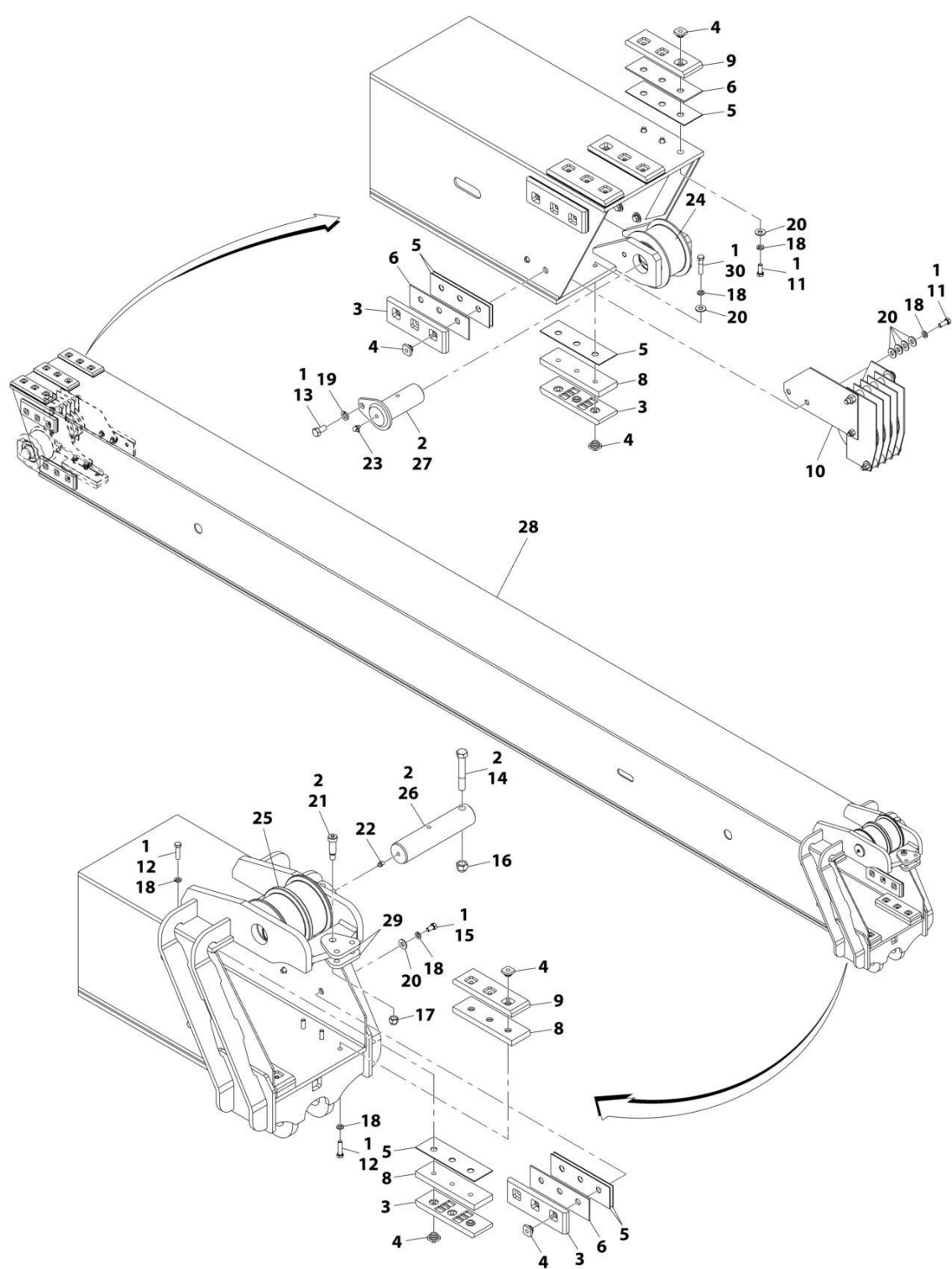
ART_1001239476-B

FIGURE 2-4. THIRD BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239476	Ref	Third Boom Section Assembly	B
1	0100011	AR	Compound, Locking	
2	3020039	AR	Lube	
3	7079572	11	Pad, Wear	
4	7082311	34	Insert, Wear Pad	
5	7082342	AR	Shim, Wear Pad	
6	7082362	AR	Shim, Wear Pad	
8	7096882	5	Spacer, Wear Pad	
9	7111572	4	Pad, Wear	
10	7112732	1	Support, Hose Clamp	
11	7138977	1	Pin, Retract Chain Sheave	
12	7138986	1	Sheave, Retract Chain	
13	8303620	6	Bolt, 3/8-16X1	
14	8303621	4	Bolt, 3/8-16X1-1/2	
15	8303622	4	Bolt, 3/8-16X2	
16	8303624	1	Bolt, 1/2-13X1	
17	8303633	1	Bolt	
18	8303679	4	Bolt, 3/8-16X1-3/4	
19	8303681	16	Bolt, 3/8-16X3/4	
20	8305643	2	Nut, Lock 5/8-11	
21	8307004	2	Washer, Lock 5/16	
22	8307005	34	Washer, Lock 3/8	
23	8307007	1	Washer, Lock 1/2	
24	8307203	2	Washer, 5/16	
25	8307204	28	Washer, 3/8	
26	8310081	2	Bolt, 5/16-18X5	
27	8520001	1	Fitting, Straight Lube 1/8	
28	8520003	1	Fitting, 90 Lube 1/8	
29	8750003	8	Clamp, Half 5/8	
31	1001168567	1	Roller, Extend Chain	
31	0440296	2	Bearing	
32	1001241369	2	Chain, Retract Anchor	
33	1001241541	1	Pin, Extended	
34	1001242070	1	Boom, Third Section	
35	1001242583	1	Bracket, Hose Clamp	

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FIGURE 2-5. SECOND BOOM SECTION ASSEMBLY



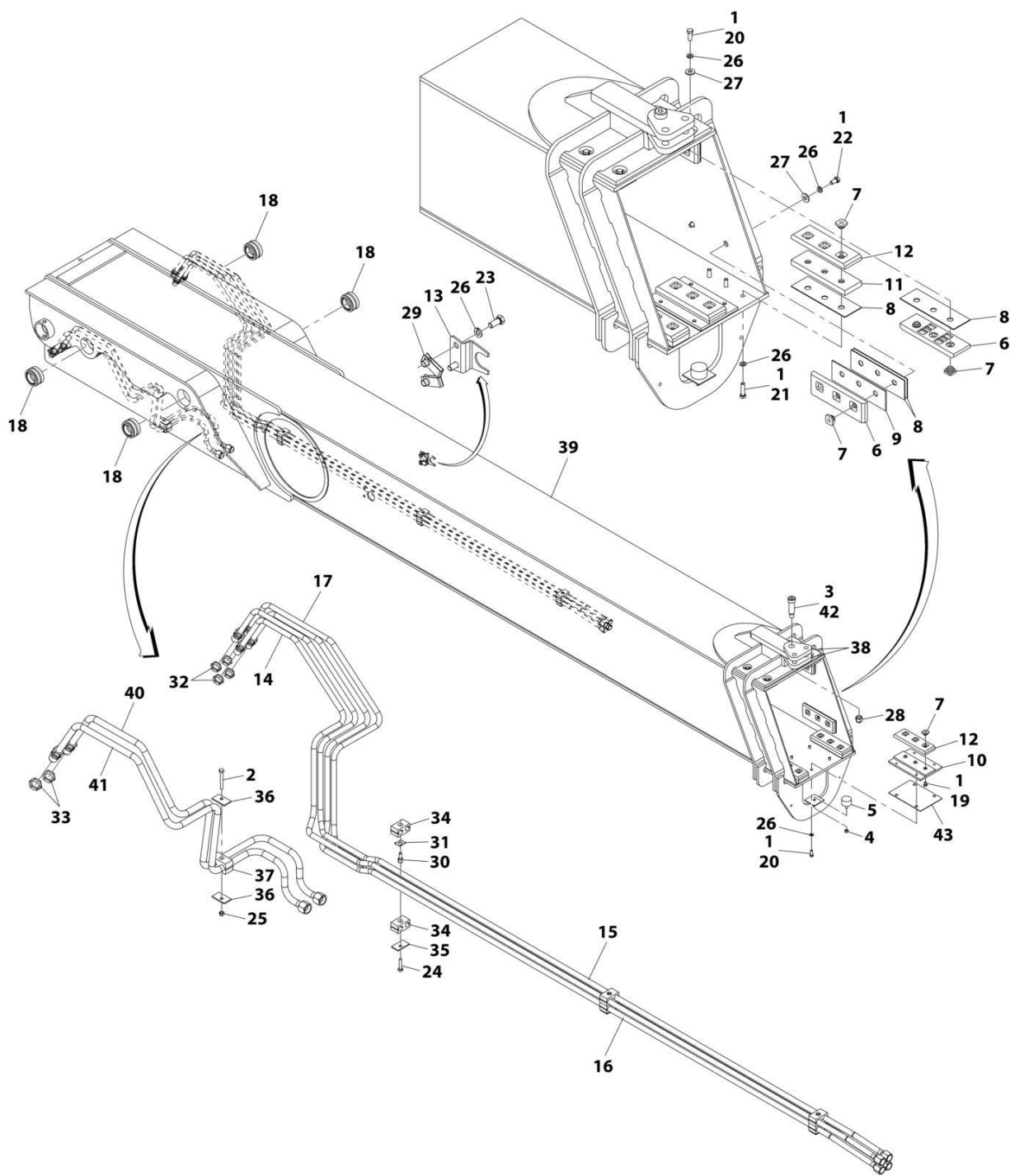
ART_1001239477-B

FIGURE 2-5. SECOND BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239477	Ref	Second Boom Section Assembly	B
1	0100011	AR	Compound, Locking	
2	3020039	AR	Lube	
3	7079572	11	Pad, Wear	
4	7082311	36	Insert, Wear Pad	
5	7082342	AR	Shim, Wear Pad	
6	7082362	AR	Shim, Wear Pad	
8	7096882	5	Spacer, Wear Pad	
9	7111572	5	Pad, Wear	
10	7116733	1	Assembly, Hose Pulley (See Separate Breakdown in this Section)	
11	8303620	10	Bolt, 3/8-16X1	
12	8303621	10	Bolt, 3/8-16X1-1/2	
13	8303624	1	Bolt, 1/2-13X1	
14	8303634	1	Bolt, 5/8-11X4	
15	8303681	14	Bolt, 3/8-16X3/4	
16	8305643	1	Nut, Lock 5/8-11	
17	8305644	1	Nut, Lock 1/2-13	
18	8307005	36	Washer, Lock 3/8	
19	8307007	1	Washer, Lock 1/2	
20	8307204	34	Washer, Plain 3/8	
21	8310020	1	Screw, Shoulder 5/8X1-1/2X1/2-13	
22	8520001	1	Fitting, Straight Lube 1/8	
23	8520003	1	Fitting, 90 Lube 1/8	
24	1001101867	1	Sheave with Bushings	
24	7117502	2	Bushing	
25	1001168286	1	Roller, Extend Chain with Bushings	
25	1001167025	2	Bushing	
26	1001241438	1	Pin, Extended	
27	1001241480	1	Pin, Retract Weldment	
28	1001242051	1	Boom, Second Section	
29	1001242310	2	Bracket, Sheave	
30	8303679	2	Bolt, 3/8-16X1-3/4	

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FIGURE 2-6. FIRST BOOM SECTION ASSEMBLY



ART_1001239478-B

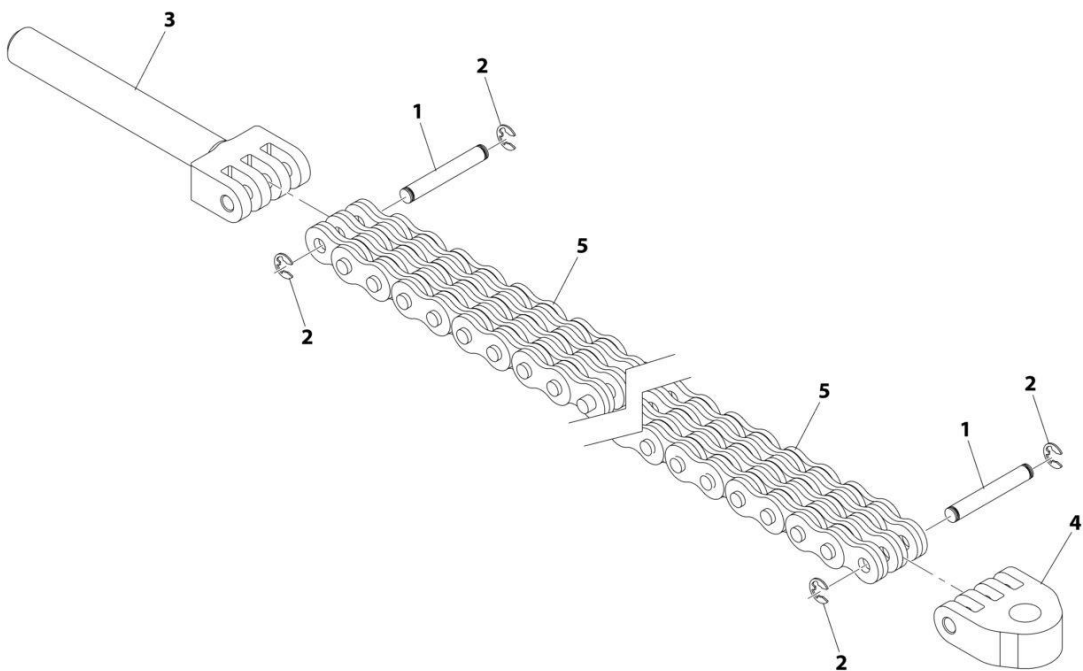
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FIGURE 2-6. FIRST BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239478	Ref	First Boom Section Assembly	B
1	0100011	AR	Compound, Locking	
2	0641520	1	Bolt, 5/16-18X2-1/2	
3	3020039	AR	Lube	
4	3311601	1	Nut, 3/8-16	
5	5724622	1	Bumper, Rubber	
6	7079572	6	Pad, Wear	
7	7082311	21	Insert, Wear Pad	
8	7082342	AR	Shim, Wear Pad	
9	7082362	AR	Shim, Wear Pad	
10	7096772	1	Spacer, Wear Pad	
11	7096882	2	Spacer, Wear Pad	
12	7111572	3	Pad, Wear	
13	7138468	1	Clip	
14	7300672	1	Tube	
15	7300673	1	Tube	
16	7300674	1	Tube	
17	7300675	1	Tube	
18	8065640	4	Bearing, Spherical	
19	8303041	3	Bolt, 3/8-16X1/2	
20	8303620	8	Bolt, 3/8-16X1	
21	8303621	6	Bolt, 3/8-16X1-1/2	
22	8303681	8	Bolt, 3/8-16X3/4	
23	8303738	2	Bolt, 3/8-16X7/8	
24	0641511	3	Bolt, 5/16-18X1-3/8	
25	8305626	1	Nut, Lock 5/16-18	
26	8307005	24	Washer, Lock 3/8	
27	8307204	12	Washer, 3/8	
28	8310067	1	Nut, Lock 3/4-10	
29	8310113	2	Nut, Cage 3/8-16	
30	8750011	3	Bolt, Stacking 5/16	
31	8750017	3	Plate, Twin Clamp Locking	
32	8760465	4	Adapter, Bulkhead Nut	
33	8760468	2	Adapter, Bulkhead Nut	
34	8769122	6	Clamp Set, Twin 5/8	
35	8769123	3	Cover Plate, Twin	
36	8769128	2	Cover Plate, Twin	
37	8769139	1	Clamp Set, Twin 3/4	
38	1001241368	2	Bracket, Sheave	
39	1001242036	1	Boom, First Section	
40	1001242308	1	Pipe, Telescopic Extend	
41	1001242309	1	Pipe, Telescopic Retract	
42	1001242316	1	Bolt	
43	1001250718	1	Shim, Wear Pad	

SECTION 2 - BOOM

FIGURE 2-7. EXTEND CHAIN ASSEMBLY



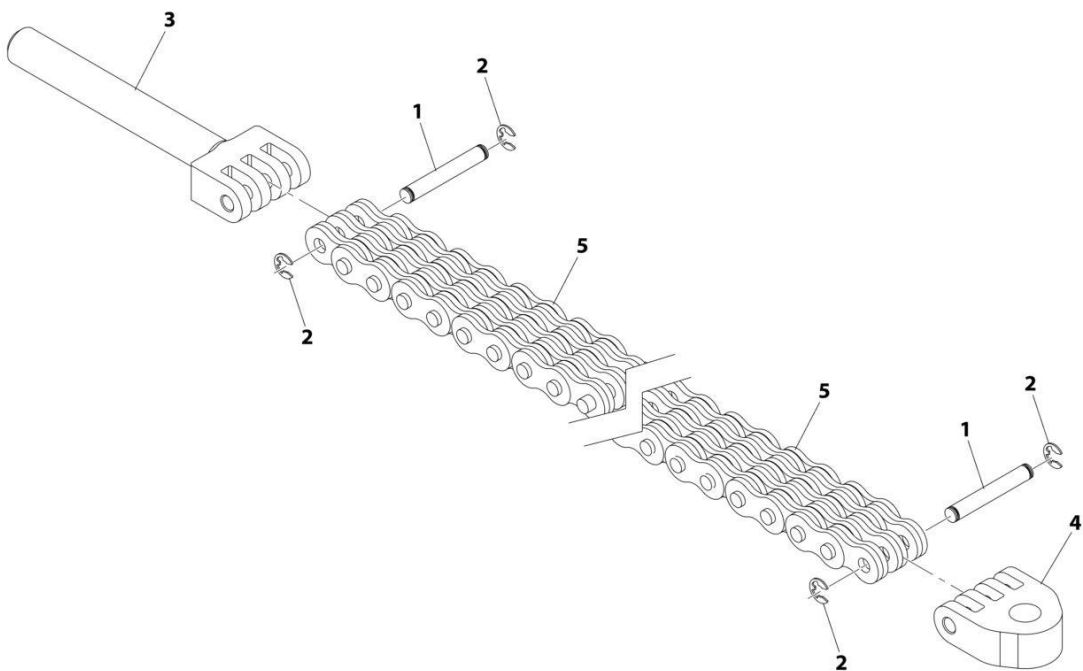
ART_1001241567-A

FIGURE 2-7. EXTEND CHAIN ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241567	Ref	Extend Chain Assembly	A
1	1001163841	2	Pin, Chain Clevis	
2	1001164039	4	Ring, External	
3	1001165590	1	Clevis Chain	
4	1001239967	1	Clevis Chain	
5	1001241549	1	Chain	

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FIGURE 2-8. RETRACT CHAIN ASSEMBLY



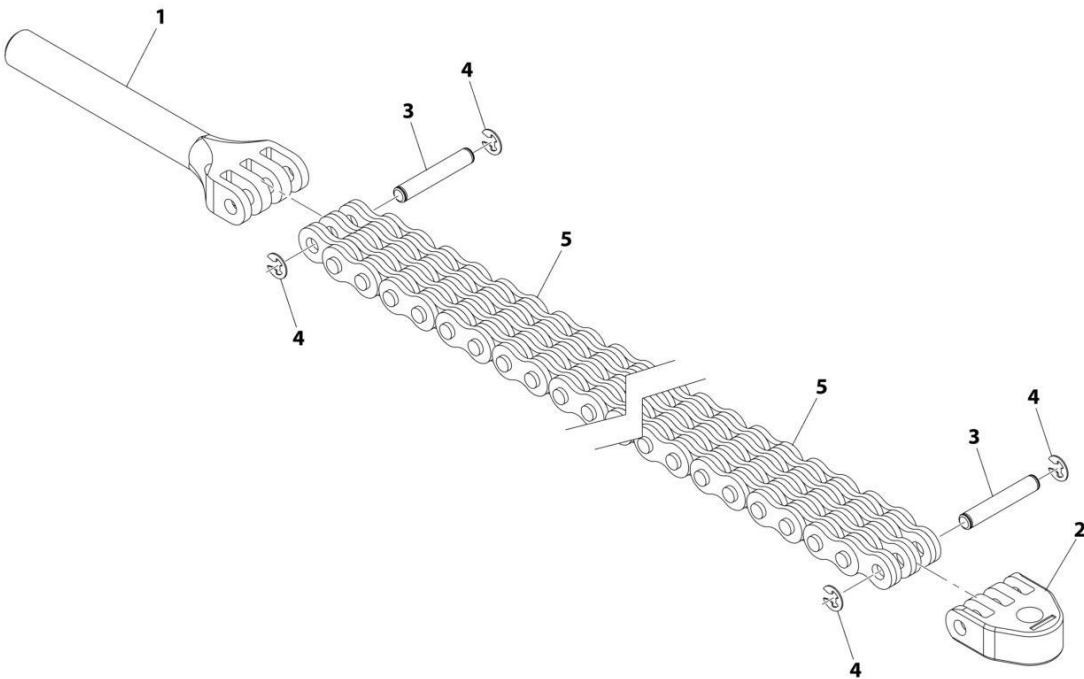
ART_1001242608-B

FIGURE 2-8. RETRACT CHAIN ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242608	Ref	Retract Chain Assembly	B
1	1001163841	2	Pin, Chain Clevis	
2	1001164039	4	Ring, External	
3	1001165590	1	Chain Clevis	
4	1001239967	1	Chain Clevis	
5	1001242609	1	Chain	

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FIGURE 2-9. EXTEND CHAIN ASSEMBLY



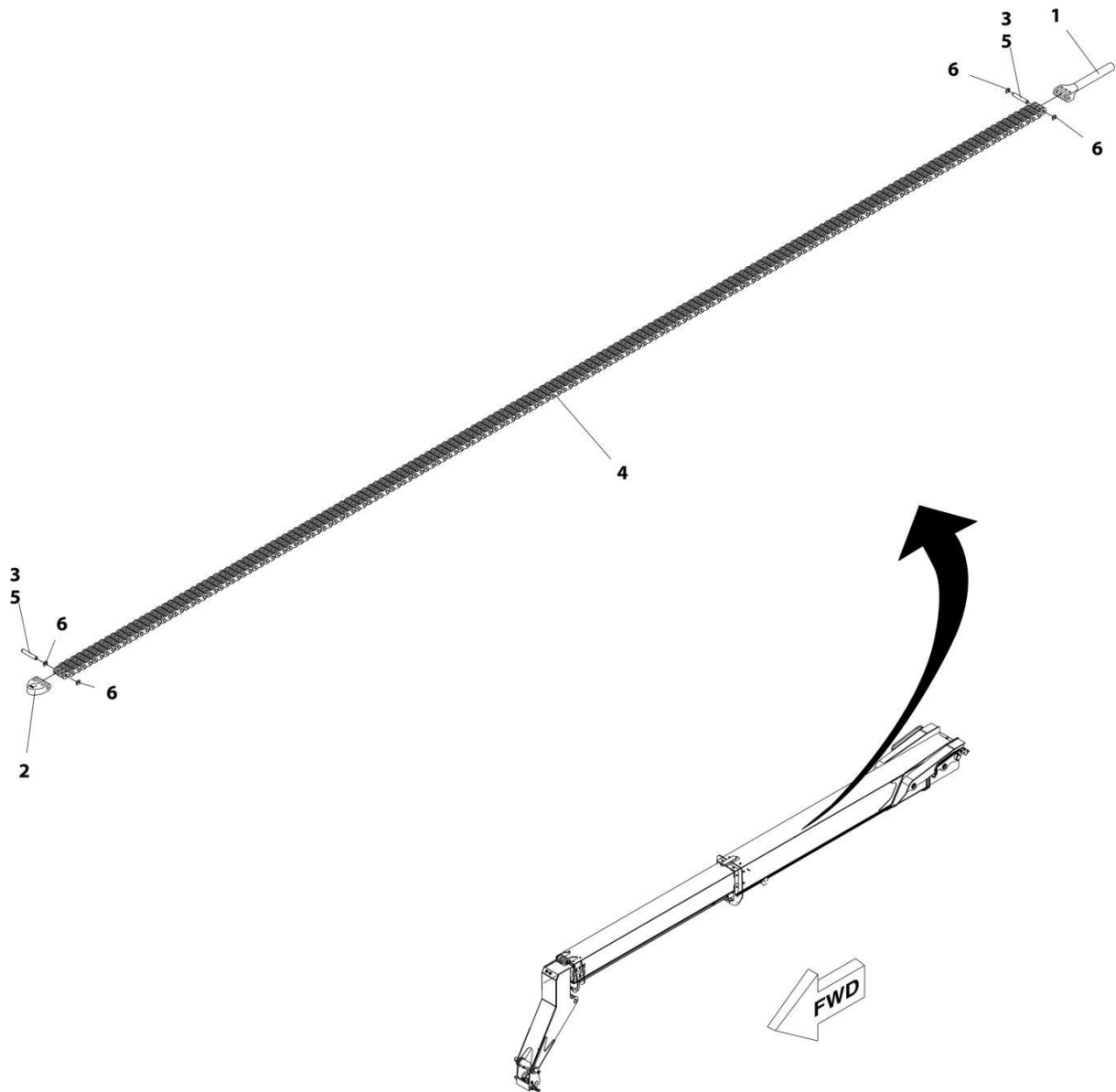
ART_1001242923-A

FIGURE 2-9. EXTEND CHAIN ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242923	Ref	Extend Chain Assembly	A
1	7139032	1	Clevis, Female Anchor	
2	7139416	1	Clevis, Female Anchor	
3	8124138	2	Pin, Chain Clevis	
4	8642237	4	Ring, Retaining	
5	1001242924	1	Chain	

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FIGURE 2-10. RETRACT CHAIN AND CLEVIS ASSEMBLY



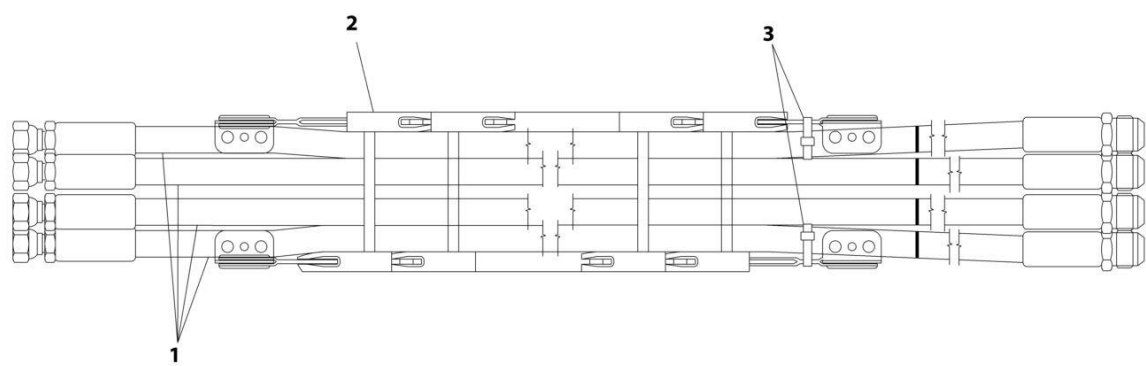
ART_7139692_B

FIGURE 2-10. RETRACT CHAIN AND CLEVIS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7139692	Ref	Chain and Clevis Assembly	B
1	7139032	1	Clevis, Female Anchor	
2	7139416	1	Clevis, Female Anchor	
3	8124138	2	Pin, Chain Clevis	
4	8127024	1	Chain, Leaf	
5	8522012	AR	Lube, Anti-Seize	
6	8642237	4	Ring, Retaining	

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FIGURE 2-11. HOSE AND CARRIER ASSEMBLY



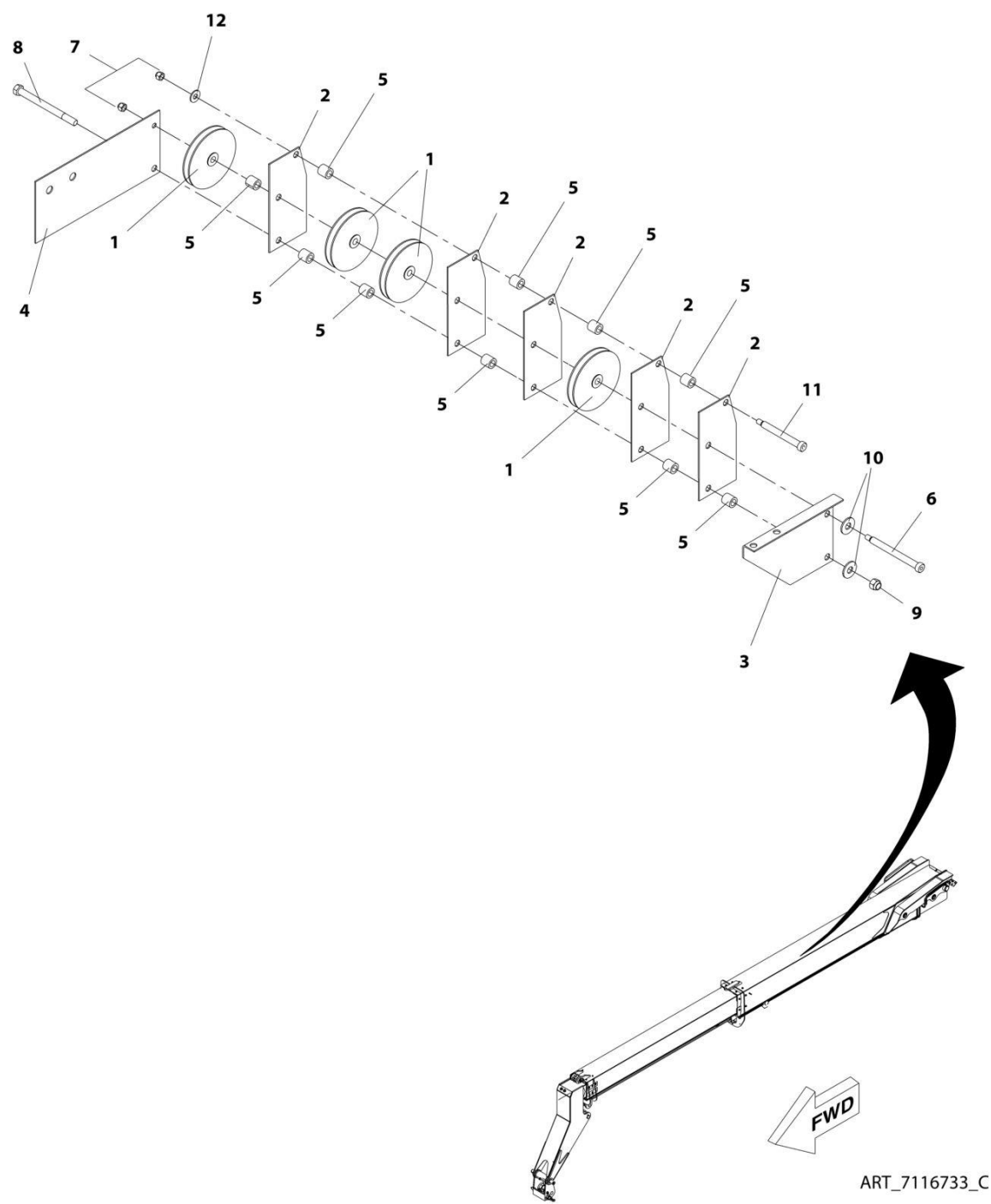
ART_7112452-G

FIGURE 2-11. HOSE AND CARRIER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7112452	Ref	Hose and Carrier Assembly	G
1	2713642	4	Hose	
2	8584021	1	Carrier, Hose	
3	8584001	2	Wrap, Tie 3/16	

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FIGURE 2-12. HOSE PULLEY ASSEMBLY



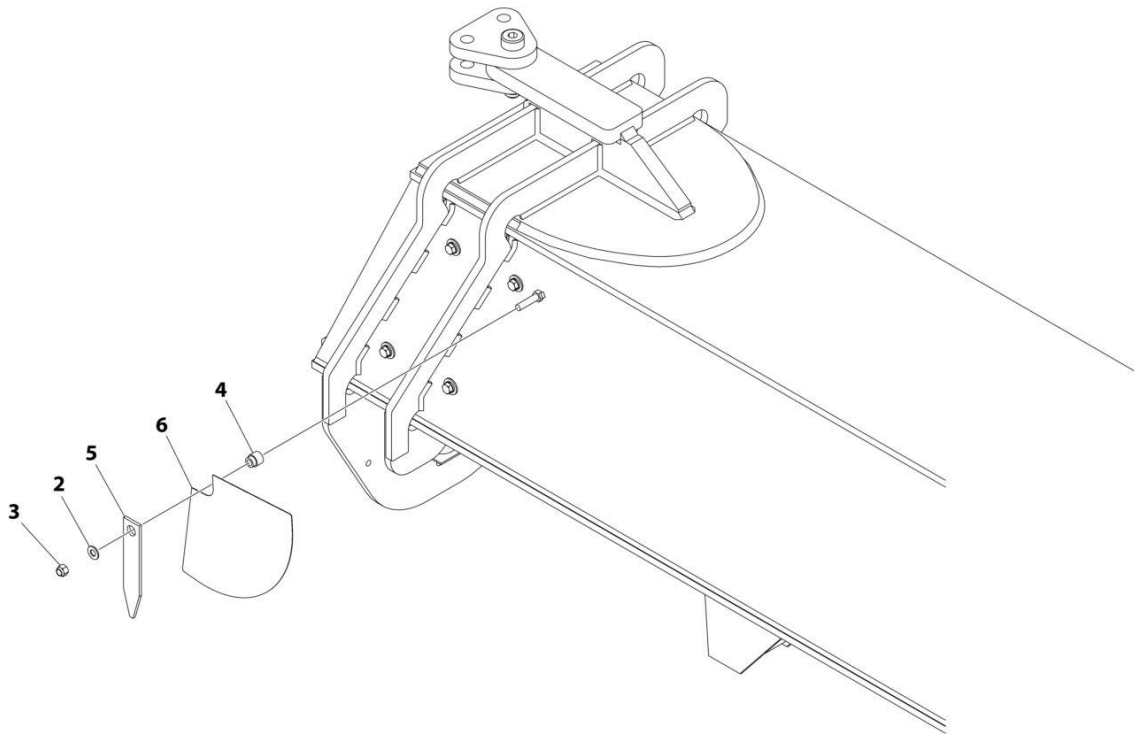
ART_7116733_C

FIGURE 2-12. HOSE PULLEY ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7116733	Ref	Hose Pulley Assembly	C
1	7116812	4	Wheel, Roller	
2	7116642	5	Divider	
3	7116652	1	Bracket, RH	
4	7116662	1	Bracket, LH	
5	7116691	10	Spacer	
6	8310235	1	Screw, Shoulder 1/2X5	
7	8305645	2	Nut, Lock 3/8-16	
8	8310209	1	Bolt, 1/2-13X6	
9	8305644	1	Nut, Lock 1/2-13	
10	8307206	2	Washer, Plain 1/2	
11	8310245	1	Screw, Shoulder 1/2X4	
12	8307204	1	Washer, Plain 3/8	

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FIGURE 2-13. MECHANICAL BOOM ANGLE INDICATOR



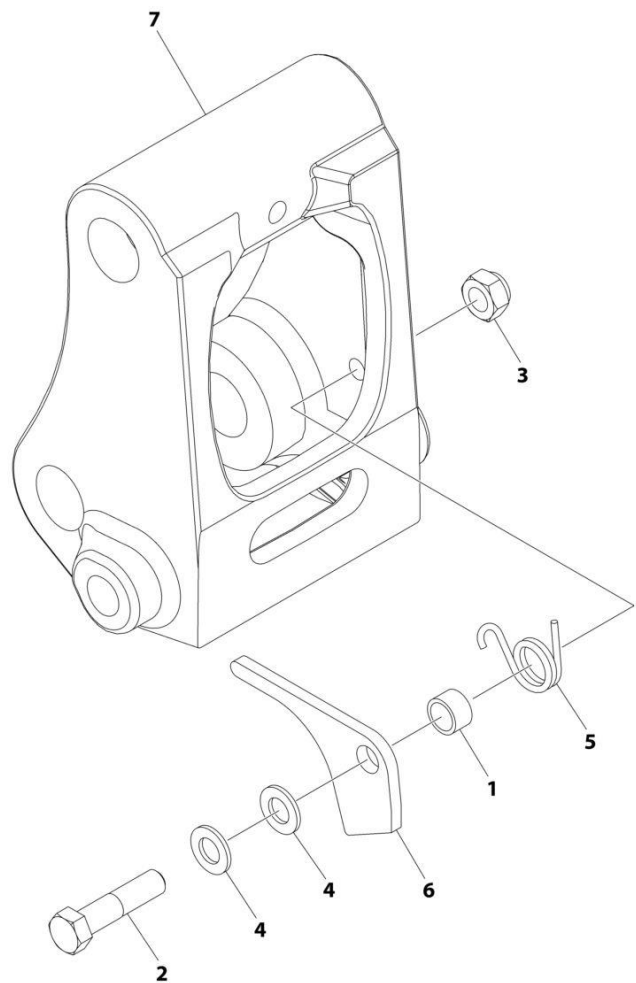
ART_1001242682_C

FIGURE 2-13. MECHANICAL BOOM ANGLE INDICATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242682	Ref	Mechanical Boom Angle Indicator	C
2	4711600	1	Washer, 3/8	
3	8305645	1	Nut, Lock 3/8-16	
4	1001096404	1	Sleeve, Angle Indicator Spacer	
5	1001098769	1	Plate, Boom Angle Indicator	
6	4105262	1	Decal, Boom Angle Indicator	

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FIGURE 2-14. COUPLER ASSEMBLY



ART_1001242996_C

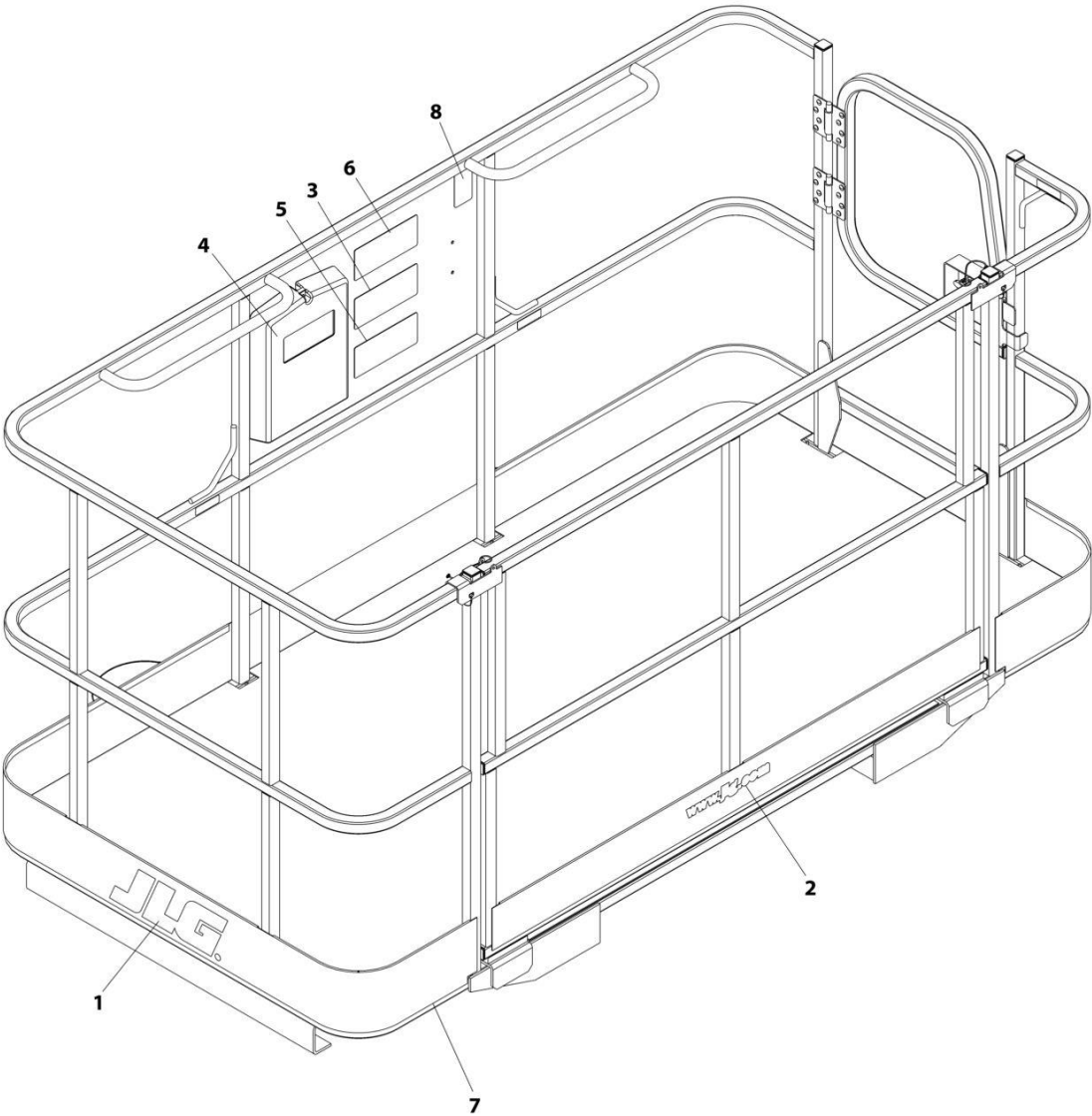
FIGURE 2-14. COUPLER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242996	Ref	COUPLER ASSEMBLY	C
1	7085571	1	Spacer	
2	8303640	1	Bolt	
3	8305619	1	Nut 3/4	
4	8307104	2	Washer 3/4	
5	1001243025	1	Spring, Torsion	
6	1001243026	1	Plate, Pin Latch	
7	1001243219	1	Coupler, Link	

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FIGURE 3-1. BASKET, PERSONNEL (1.2MX2.4M) (DOMESTIC)



ART_1001238653-A

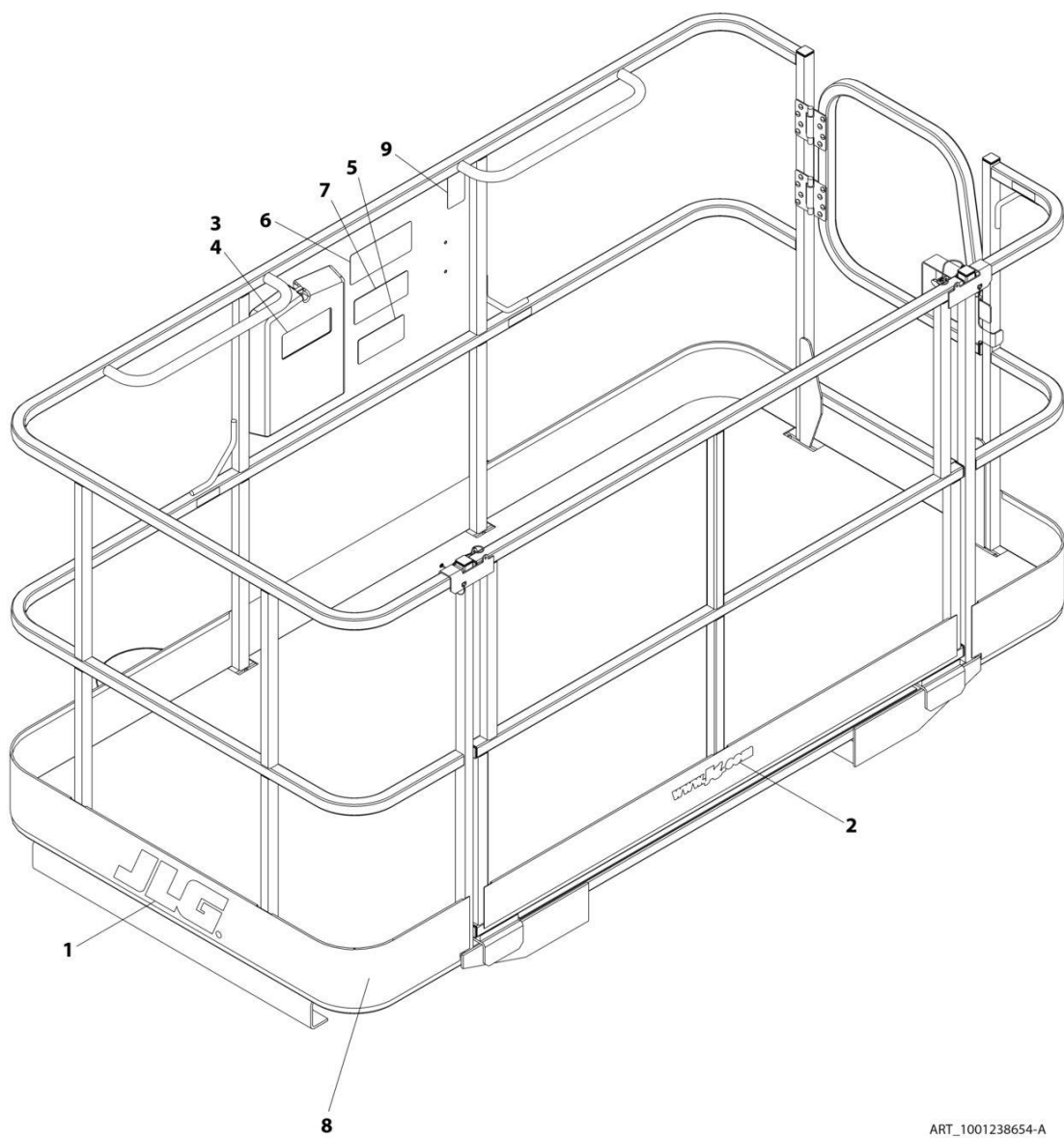
SECTION 3 - ATTACHMENTS

FIGURE 3-1. BASKET, PERSONNEL (1.2MX2.4M) (DOMESTIC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238653	Ref	FORK MOUNTED PLATFORM	B
1	1702773	2	Decal, JLG	
2	1704885	1	Decal, Website	
3	1706892	1	Decal, Platform Warning	
4	31200160	1	Manual, Personnel Work Platform Operation and Safety	
5	1001092481	1	Decal, Warning Attachment	
6	1001092482	1	Decal, Platform Capacity	
7	1001238565	1	Platform, Fork Mounted (See Separate Breakdown in this Section)	
8	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	

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FIGURE 3-2. BASKET, PERSONNEL (1.2MX2.4M) (ISO)



ART_1001238654-A

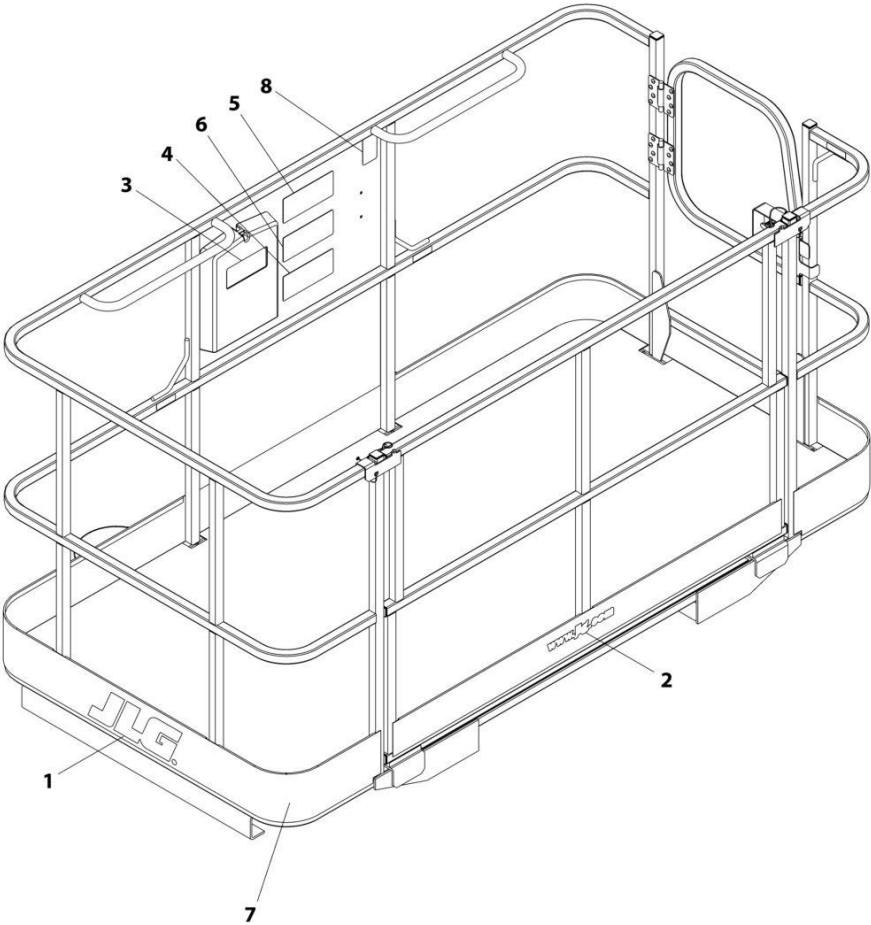
SECTION 3 - ATTACHMENTS

FIGURE 3-2. BASKET, PERSONNEL (1.2MX2.4M) (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238654	Ref	BASKET, PERSONNEL	B
1	1702773	2	Decal, JLG	
2	1704885	1	Decal, Website	
3	31200387	1	Manual, Operation and Safety, Spanish	
4	31200388	1	Manual, Operation and Safety, Portuguese	
5	1001096021	1	Decal, Warning Attachment	
6	1001096023	1	Decal, Platform Capacity	
7	1001096025	1	Decal, Platform Warning	
8	1001238565	1	Platform, Fork Mounted (ANSI) (See Separate Breakdown in this Section)	
9	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	

SECTION 3 - ATTACHMENTS

FIGURE 3-3. BASKET, PERSONNEL (1.2MX2.4M) (FRENCH LANGUAGE)



ART_1001238655-A

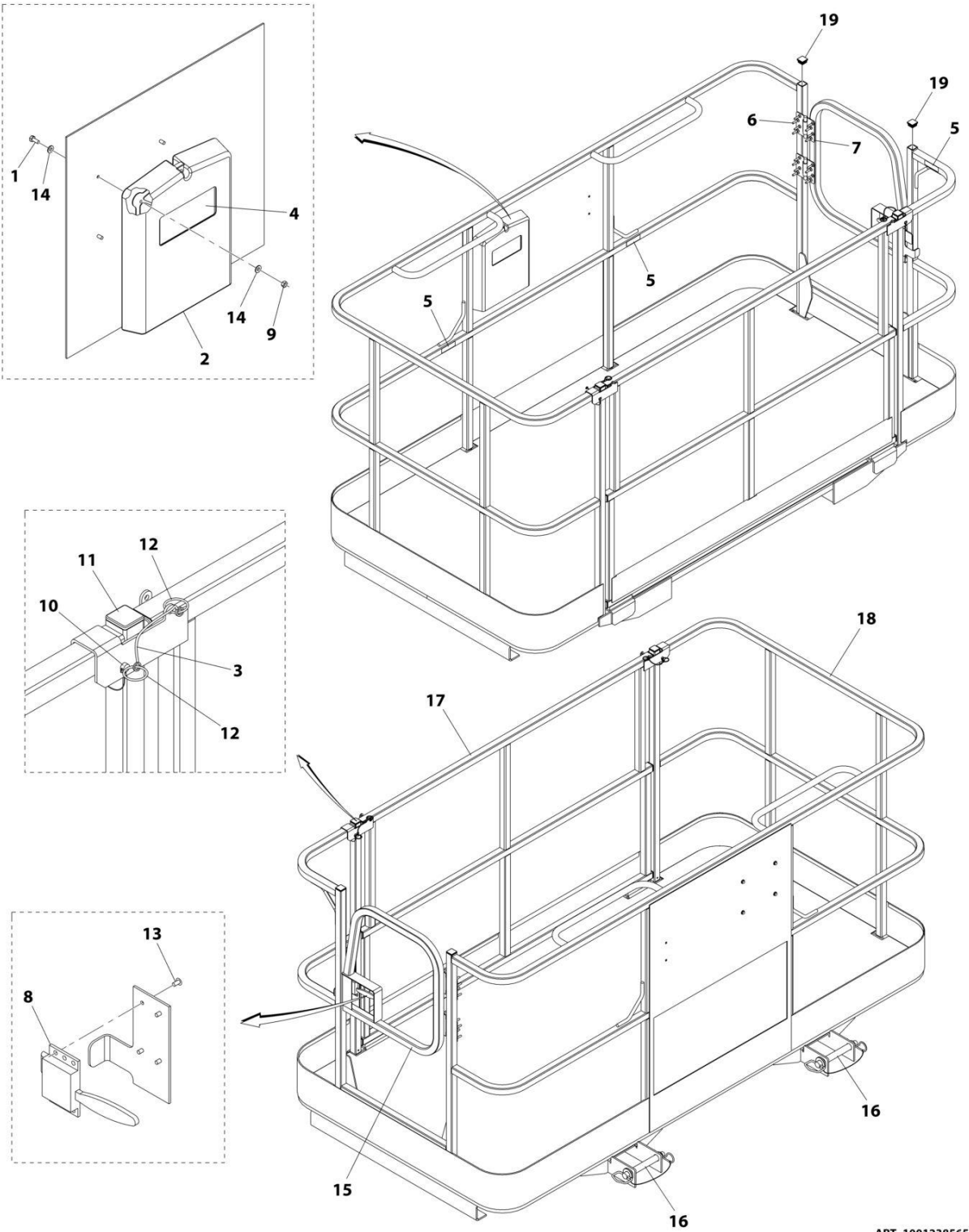
SECTION 3 - ATTACHMENTS

FIGURE 3-3. BASKET, PERSONNEL (1.2MX2.4M) (FRENCH LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238655	Ref	BASKET, PERSONNEL	B
1	1702773	2	Decal, JLG	
2	1704885	1	Decal, Website	
3	31200386	1	Manual, Operation and Safety (French)	
4	1001096019	1	Decal, Warning Attachment (French)	
5	1001096020	1	Decal, Platform Capacity (French)	
6	1001096024	1	Decal, Platform Warning (French)	
7	1001238565	1	Platform, Fork Mounted (ANSI) (See Separate Breakdown in this Section)	
8	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	

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FIGURE 3-4. BASKET ASSEMBLY



ART_1001238565

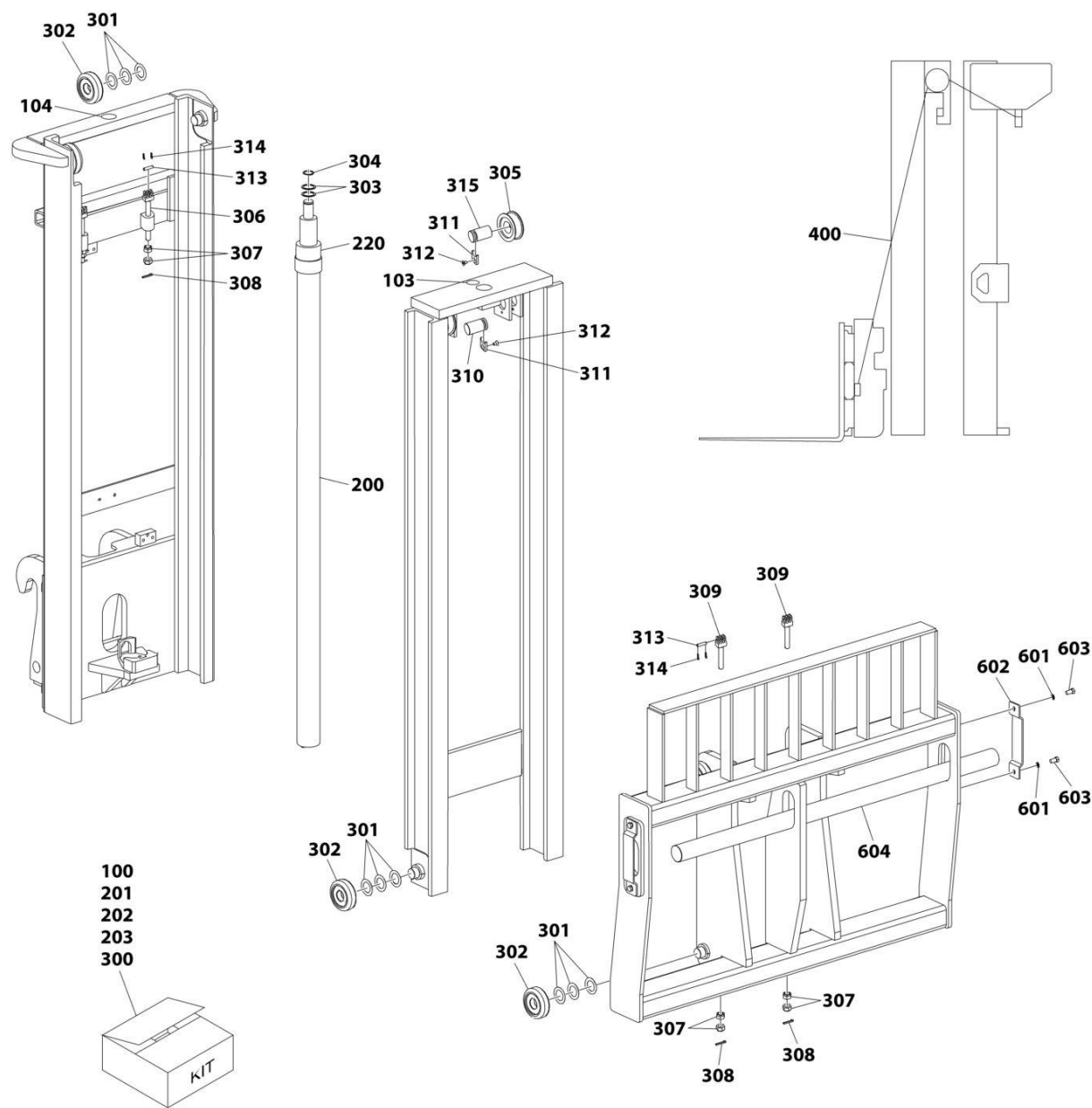
SECTION 3 - ATTACHMENTS

FIGURE 3-4. BASKET ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238565	Ref	FORK MOUNTED PLATFORM ASSEMBLY	F
1	0641405	4	Bolt 1/4 x 5/8	
2	0860520	1	Box, Manual Storage	
3	1060379	2	Cable, Lanyard	
4	1701509	1	Decal, Manual	
5	1704277	3	Decal, Lanyard Attach	
6	2080040	16	Fastener	
7	2600281	2	Hinge	
8	2940074	1	Latch	
9	3311405	4	Nut 1/4	
10	3421453	2	Pin	
11	3520072	7	Plug	
12	3760170	4	Ring	
13	3820020	4	Rivet	
14	4711400	8	Washer 1/4	
15	1001144629J	1	Gate	
16	1001238560	2	Pin, Hitch	
17	1001095810	1	Gate	
18	See Note	NSS	Platform, Fork Mounted	
19	3520198	4	Plug	

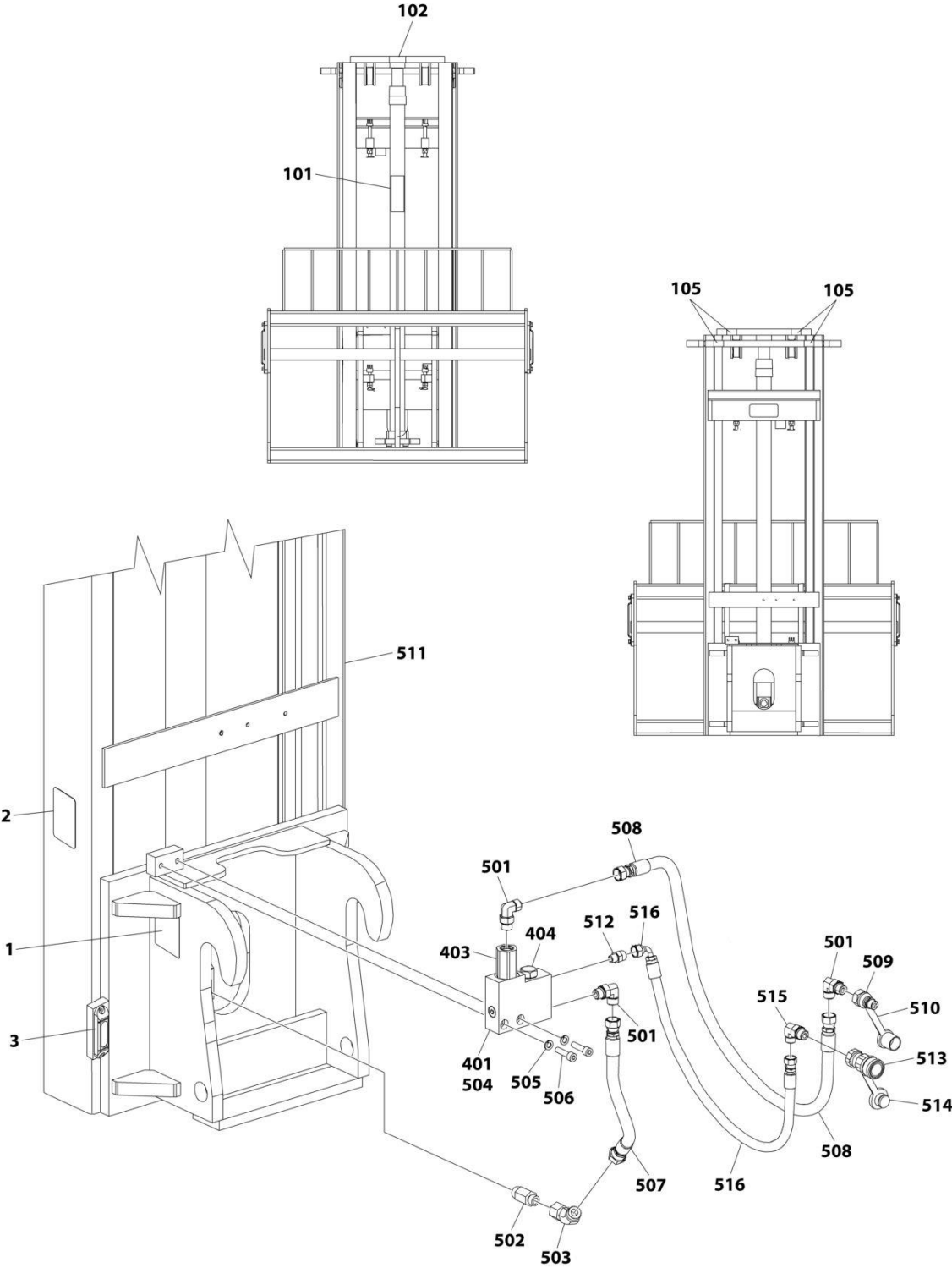
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FIGURE 3-5. BOOM (8FT)



ART_1001108668_1OF2

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ART_1001108668_2OF2

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FIGURE 3-5. BOOM (8FT)

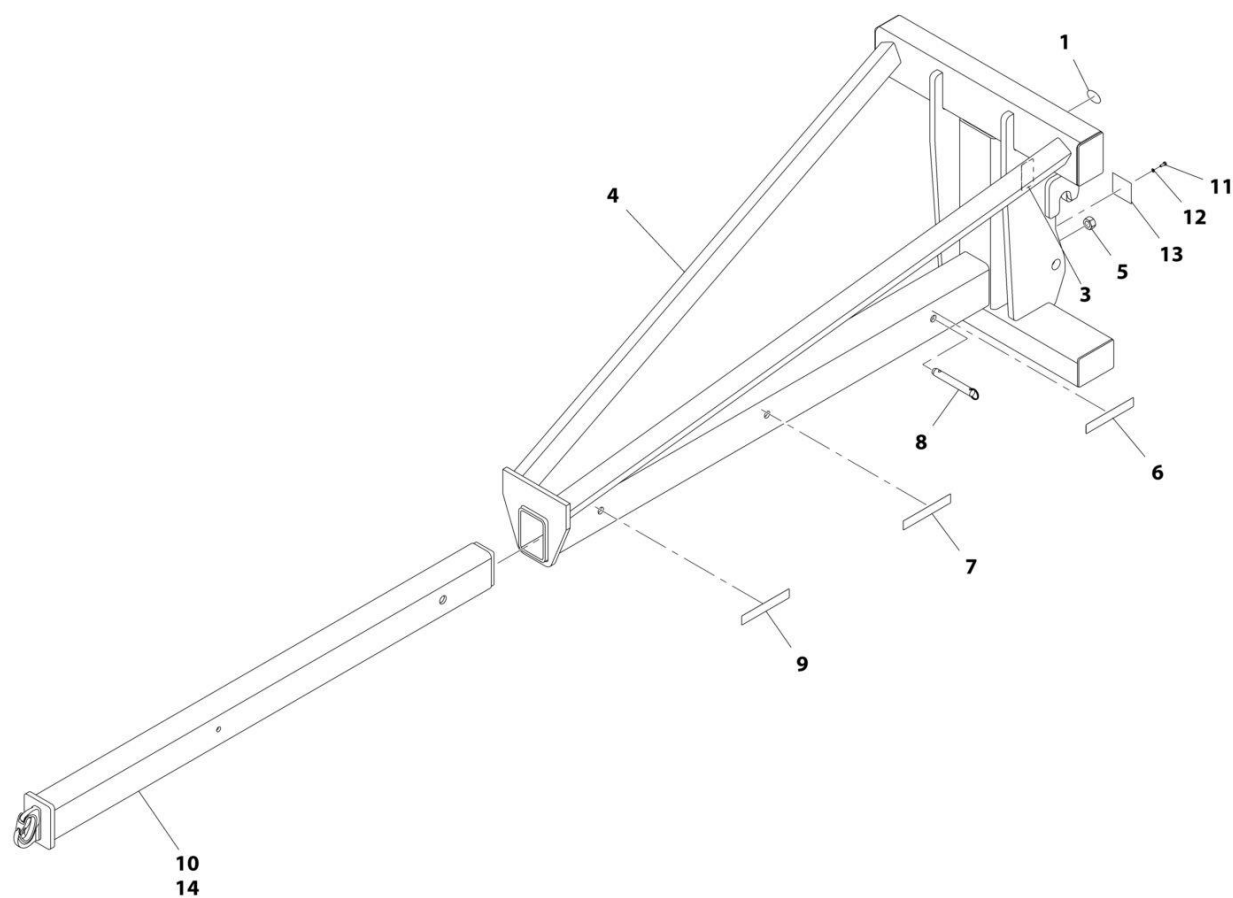
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108668	Ref	MAST ASSEMBLY - 8FT	G
1	See Note	NSS	Nameplate, Serial Number (Note: Not Available for Purchase)	
2	1001111190	2	Decal - Warning	
3	1001227670	1	RFID Tag	
100	70023925	1	Decal Kit (includes items 1, Warning, No Step & Hose Routing Decals)	
101	See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

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

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FIGURE 3-6. BOOM - ADJUSTABLE



ART_1001176515-C

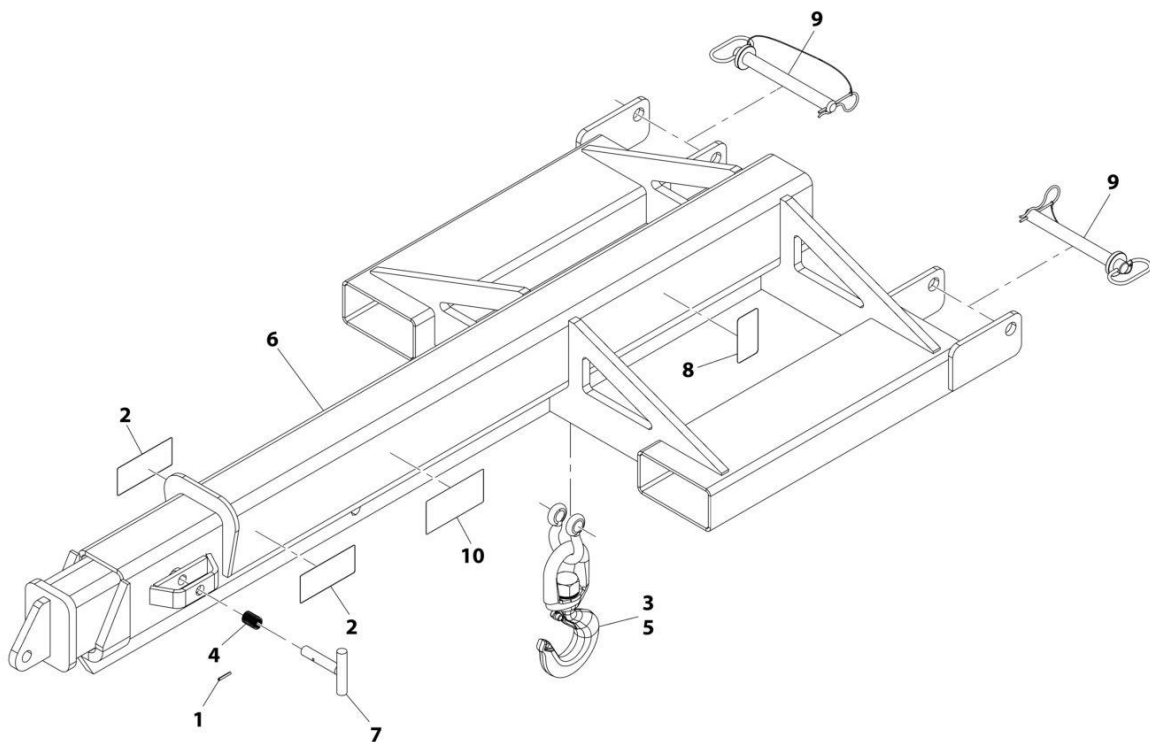
SECTION 3 - ATTACHMENTS

FIGURE 3-6. BOOM - ADJUSTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176515	Ref	ADJUSTABLE TRUSS BOOM	C
1	90554016	1	Decal, Made in USA	
3	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
4	See Note	NSS	Truss Boom (Note: Purchase Complete Assembly)	
5	70021440	1	Nut	
6	70024062	2	Decal, 4000 lbs cap	
7	70026944	2	Decal, 3000 lbs cap	
8	70026946	1	Pin	
9	70026699	2	Decal, 2000 lbs cap	
10	70026747	1	Seal	
11	90554033	1	Bolt 3/4 x 1/4	
12	90554034	1	Washer 1/4	
13	70026948	1	Plate, Stop	
14	70026949	1	Boom, Telescopic	

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FIGURE 3-7. BOOM - ADJUSTABLE (FORK MOUNTED)



ART_1001230241-H

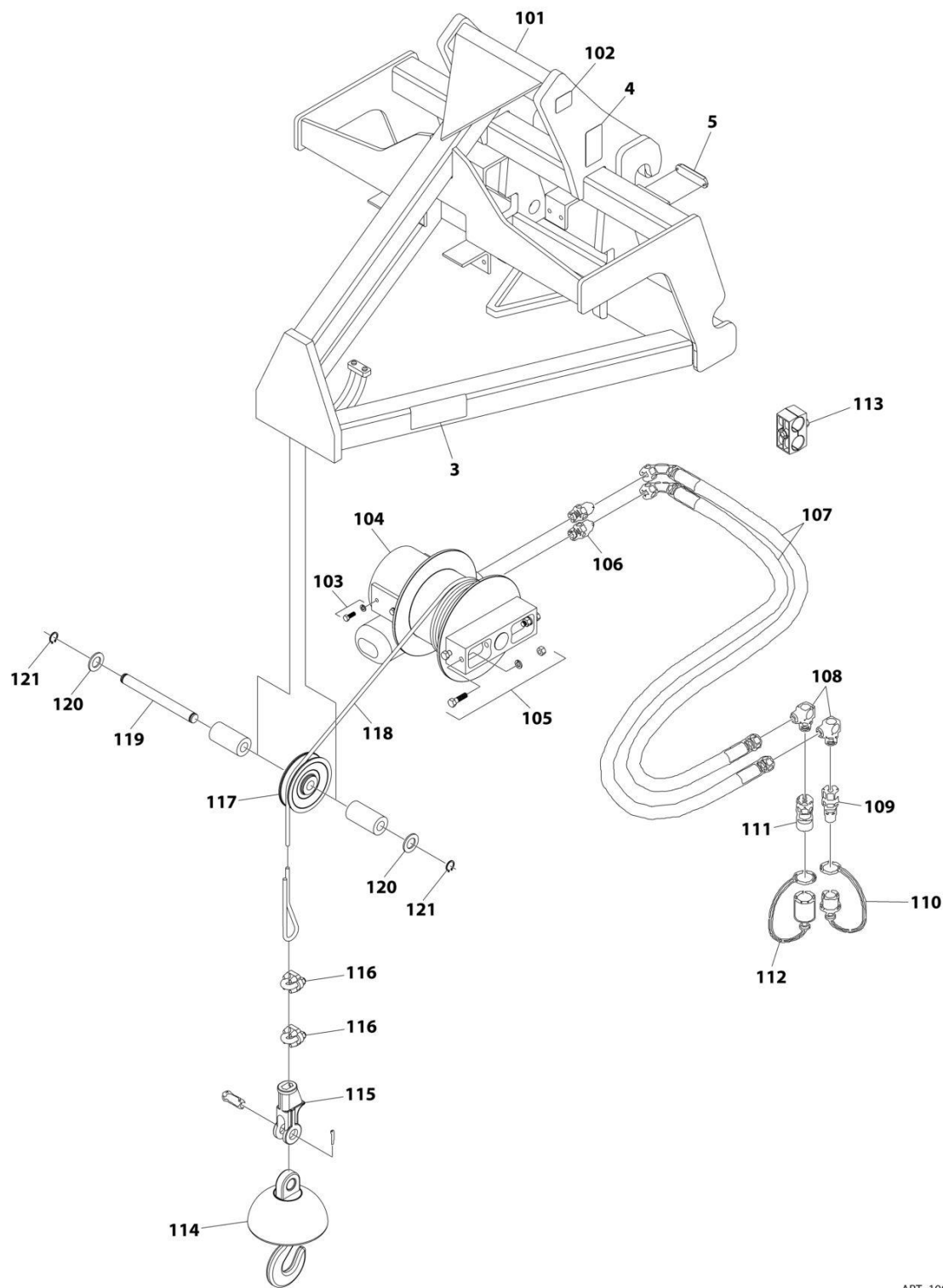
SECTION 3 - ATTACHMENTS

FIGURE 3-7. BOOM - ADJUSTABLE (FORK MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001230241	Ref	Adjustable Truss Boom Installation (Fork Mounted)	J
1	3440620	1	Pin	
2	4110422	2	Decal, Danger Swinging Loads	
3	91403448	1	Hook, Swivel	
4	1001128890	1	Spring	
5	1001146160	1	Shackle	
6	See Note	NSS	Boom, Truss - Adjustable (Note: Purchase Complete Assembly)	
7	1001230239	1	Pin	
8	See Note	NSS	SN Plate (Note:Stamped Part - Not Available for Purchase)	
9	1001231692	2	Pin	
10	1001232500	1	Decal, Load Capacities	

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FIGURE 3-8. BOOM - 3FT WITH WINCH



ART_1001100967_H

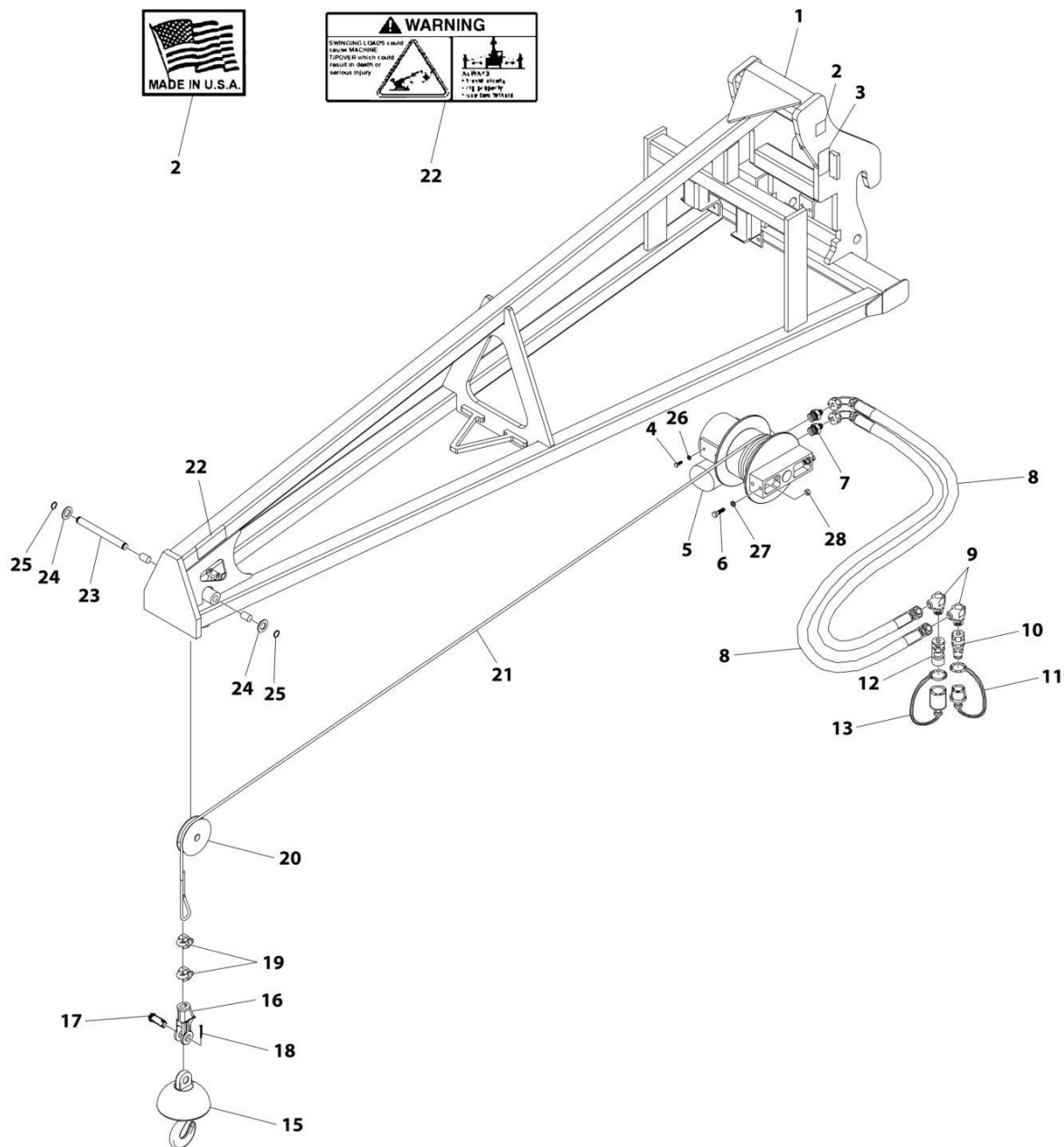
SECTION 3 - ATTACHMENTS

FIGURE 3-8. BOOM - 3FT WITH WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100967	Ref	TRUSS BOOM ASSEMBLY (3 FOOT WITH WINCH) (INCLUDES ITEMS 3, 4, 5 & 101 THRU 121)	H
3	4110422	2	Decal, Danger, Swinging Loads	
4	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
5	1001227670	1	Tag, RFID	
101	See Note	NSS	Truss Boom Frame (Note: Purchase Complete Assembly)	
102	90554016	1	Decal	
103	70021349	4	Bolt	
103	90554042	4	Washer	
104	70021921	1	Winch, Truss Boom	
105	70024059	4	Bolt	
105	90554054	4	Nut	
105	90554020	4	Washer	
106	70021415	2	Fitting	
107	70021977	2	Hose 32in (Boom Front Disconnect)	
107	70031445	2	Hose 48in (Boom Side Disconnect)	
108	70022527	2	Fitting, 90	
109	91403414	1	Fitting, Straight	
110	8420053	1	Cap	
111	91403413	1	Fitting, Straight	
112	8420055	1	Plug	
113	70021387	1	Clamp	
114	70021978	1	Ball Swivel Safety Hook	
115	70021979	1	Assembly, Socket	
116	70022528	2	Clamp	
117	70021935	1	Pulley	
118	70022028	1	Cable	
119	70022529	1	Pin	
120	70027009	2	Washer	
121	70026698	2	Ring, Snap	

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FIGURE 3-9. BOOM - 12FT WITH WINCH



ART_1001099351

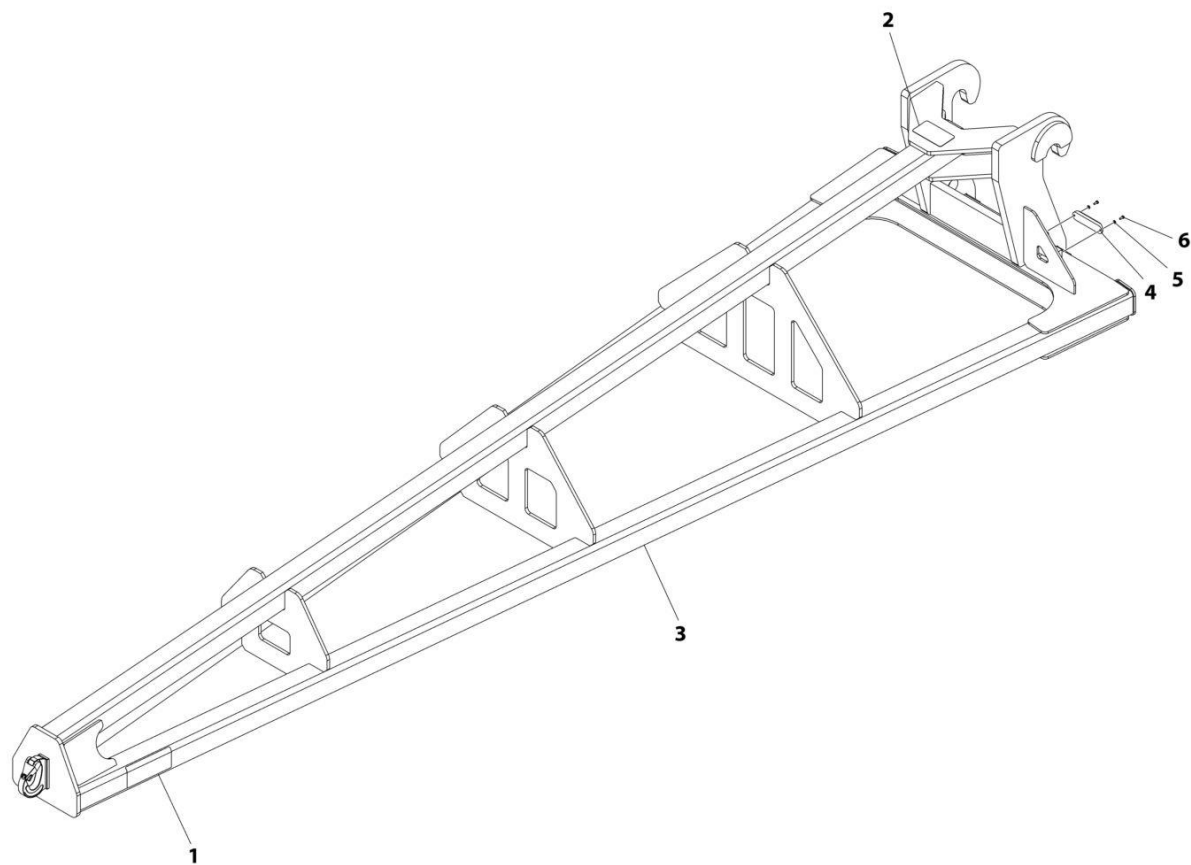
SECTION 3 - ATTACHMENTS

FIGURE 3-9. BOOM - 12FT WITH WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099351	Ref	TRUSS BOOM (0.9 TON - 3.7M WITH WINCH)	L
1	See Note	NSS	Frame, Truss Boom (Note: Purchase Complete Assembly)	
2	90554016	1	Decal, Made in USA	
	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
4	70021349	4	Bolt 3/8 x 1	
5	70021921	1	Motor, Truss Boom Winch	
6	70024059	2	Bolt 1/2 x 1-3/4	
7	70021415	2	Connector	
8	70021977	2	Hose 32in (Boom Front Disconnect)	
8	70031445	2	Hose 48in (Boom Side Disconnect)	
9	70022527	2	Fitting, 90	
10	7029692	1	Fitting, Straight	
11	90554062	1	Cap, Dust	
12	70021342	1	Fitting, Straight	
13	90554076	1	Cap, Dust	
15	70021978	1	Ball Swivel with Safety Hook	
16	70021979	1	Assembly, Socket (includes items 17 thru 18)	
17	See Note	NSS	Pin (Note: Use Item 16)	
18	See Note	NSS	Pin, Cotter (Note: Use Item 16)	
19	70022528	2	Clamp	
20	70021935	1	Pulley	
21	70022028	1	Cable	
22	4110422	2	Decal, Warning Swinging Loads	
23	70022529	1	Pin	
24	70024060	2	Washer	
25	70026698	2	Ring, Snap	
26	90554042	4	Washer 3/8	
27	90554020	2	Washer 1/2	
28	90554054	2	Nut 1/2	

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FIGURE 3-10. BOOM - 12FT WITHOUT WINCH



ART_1001099902_H

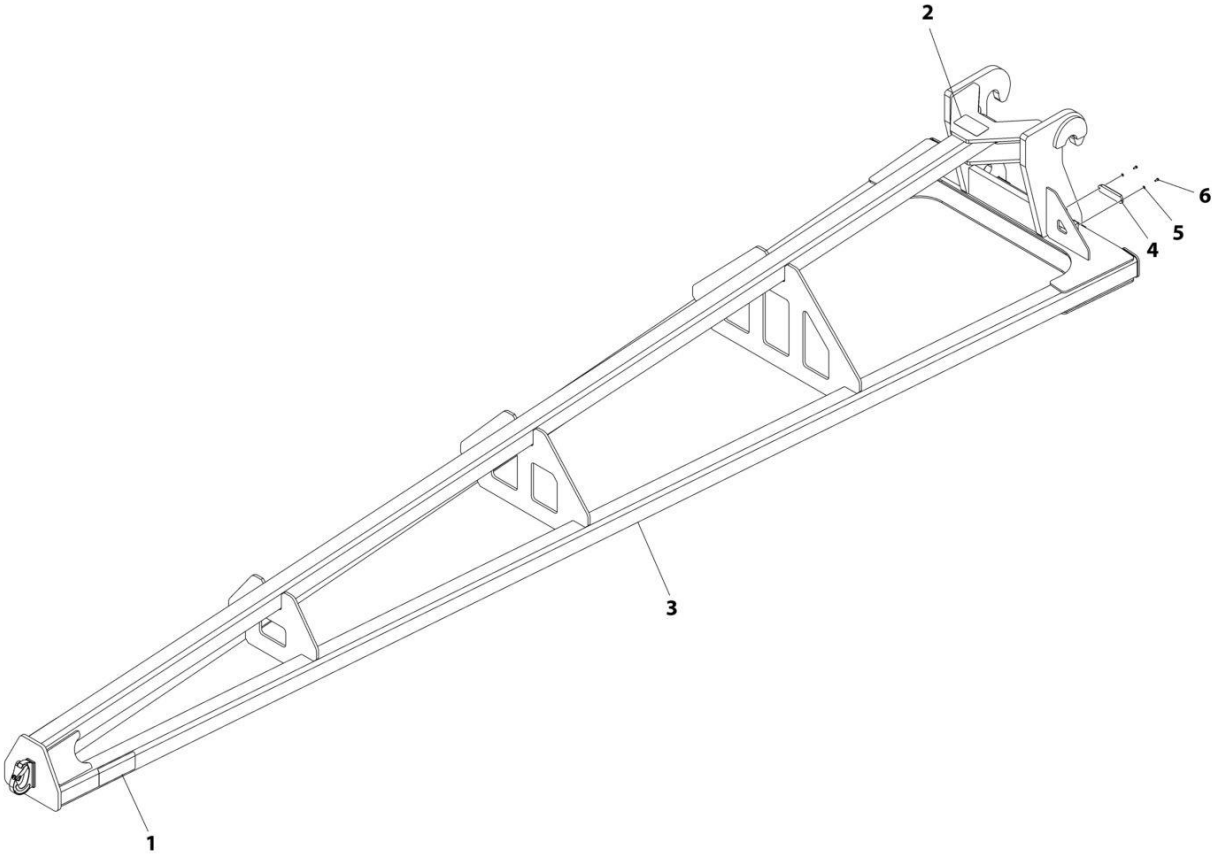
SECTION 3 - ATTACHMENTS

FIGURE 3-10. BOOM - 12FT WITHOUT WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099902	Ref	TRUSS BOOM (0.9 TON - 3.7M)	H
1	4110422	2	Decal, Danger Swinging Loads	
2	See Note	NSS	SN Plate (Note:Stamped Part - Not Available for Purchase)	
3	See Note	NSS	Boom, Truss (Note: Purchase Complete Assembly)	
4	1001227670	1	Tag, RFID	
5	4811400	2	Washer M4	
6	0760405	2	Bolt M4 x 10	

SECTION 3 - ATTACHMENTS

FIGURE 3-11. BOOM - 15FT WITHOUT WINCH



ART_1001099901_H

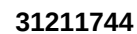
SECTION 3 - ATTACHMENTS

FIGURE 3-11. BOOM - 15FT WITHOUT WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099901	Ref	TRUSS BOOM (15 FOOT)	H
1	4110422	2	Decal, Danger Swinging Loads	
2	See Note	NSS	SN Plate (Note:Stamped Part - Not Available for Purchase)	
3	See Note	NSS	Boom, Truss (Note: Purchase Complete Assembly)	
4	1001227670	1	Tag, RFID	
5	4811400	2	Washer M4	
6	0760405	2	Bolt M4 x 10	

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ART 0930020

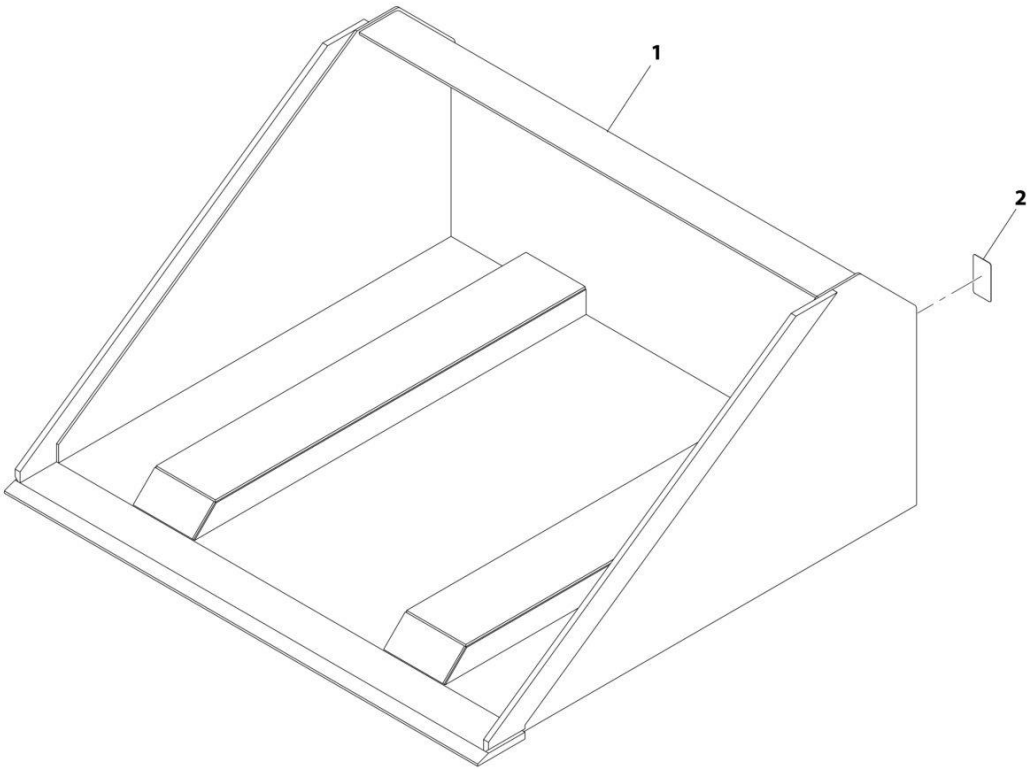
SECTION 3 - ATTACHMENTS

FIGURE 3-12. BUCKET (GRAPPLE MULTI-PURPOSE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0930020	Ref	Multi-Purpose Grapple Bucket (2450 MM)	L
1	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
2	1001227670	1	Tag, RFID	
101	N.S.S.	1	Bucket	
101	70021387	4	Clamp, Hose	
102	70021391	1	Hook, RH Grapple	
103	70021392	1	Hook, LH Grapple	
104	70021358	4	Bushing	
105	70021359	2	Spacer	
106	70021360	4	Bushing	
107	7029714	4	Fitting, Grease	
108	70021361	2	Pin	
109	70021362	2	Pin	
110	70021393	2	Cylinder, Grapple Bucket (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
111	70021364	2	Pin	
112	70021365	2	Pin	
113	70021366	4	Bolt, 3/8X2-3/4	
113	70021367	4	Nut 3/8	
114	70021399	4	Bolt, 3/8X2-1/4	
114	70021367	4	Nut, Lock 3/8	
115	90554065	4	Fitting, 90	
116	70021980	2	Hose	
117	70020562	2	Fitting, Tee	
118	70021981	2	Hose	
119	70021982	2	Hose 34in (Boom Front Disconnect)	
119	70031446	2	Hose 45in (Boom Side Disconnect)	
120	70022527	2	Fitting, 90	
121	7029692	1	Coupler	
122	90554062	1	Cover	
123	70021342	1	Coupler	
124	90554076	1	Cover	
125	90554016	1	Decal, Made in USA	
127	90554017	2	Decal, Danger Pinch Point	
128	90554018	1	Decal, Warning High Pressure	

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FIGURE 3-13. BUCKET (60 INCH) FORK MOUNTED)



ART_1001195970-D

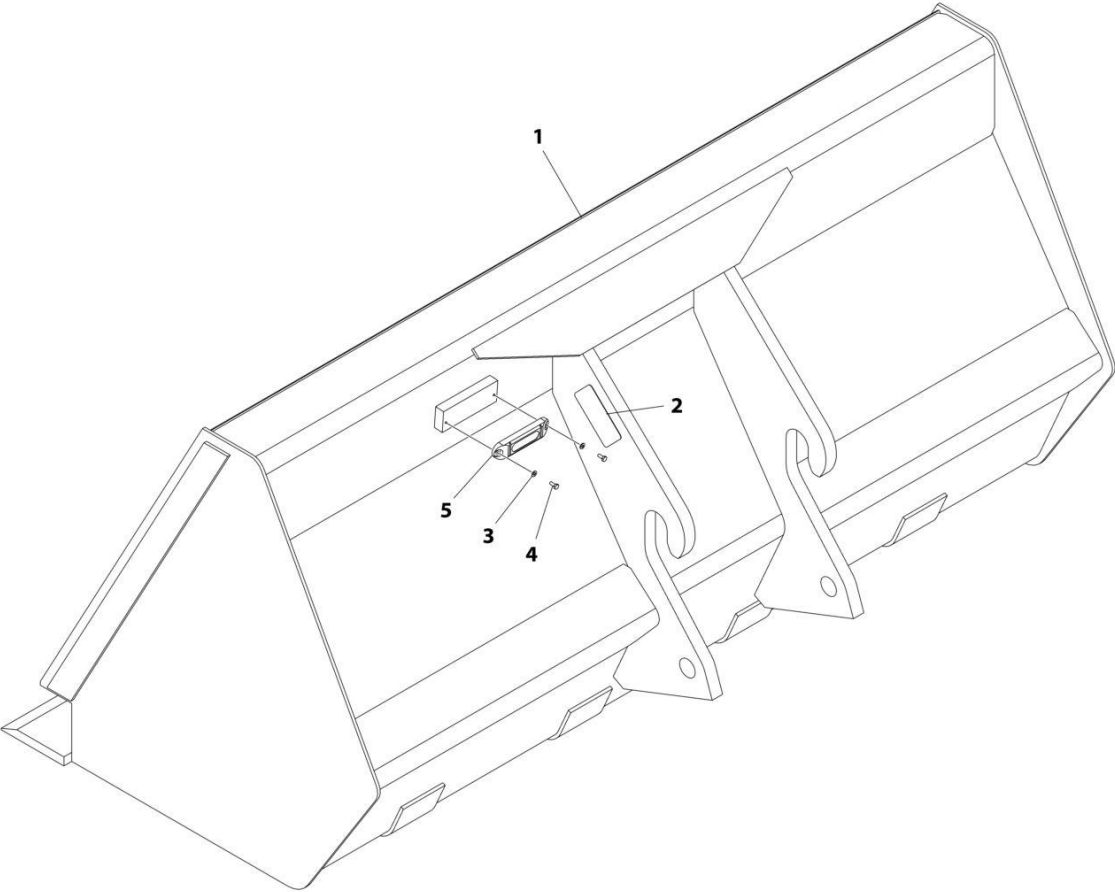
SECTION 3 - ATTACHMENTS

FIGURE 3-13. BUCKET (60 INCH) FORK MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001195970	Ref	Bucket 1.0 m ³ (Fork Mounted)	E
2	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	

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FIGURE 3-14. BUCKET (72 INCH)



ART_1001100822_I

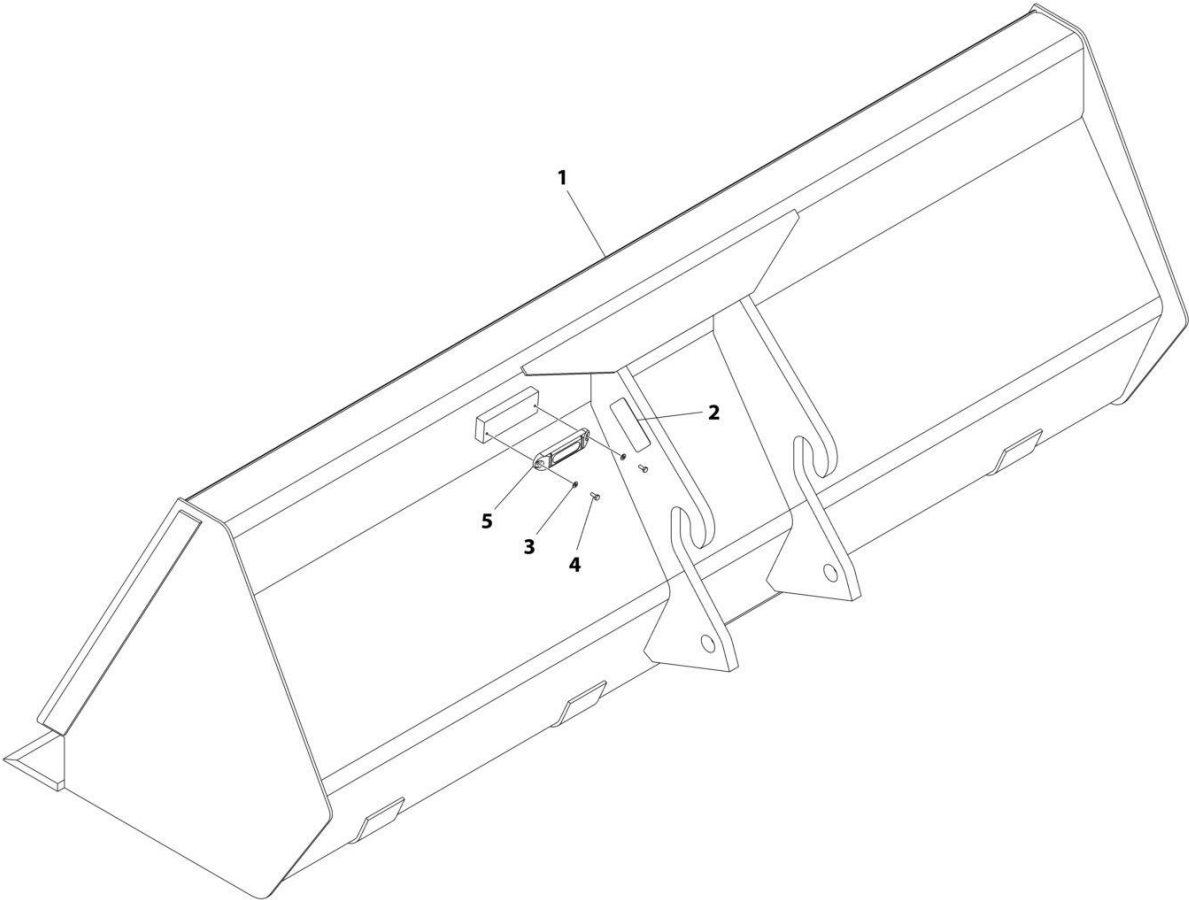
SECTION 3 - ATTACHMENTS

FIGURE 3-14. BUCKET (72 INCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100822	Ref	BUCKET 1.0 YD ³ (ANSI - JLG)	I
1	1001100265	1	Bucket Weldment	
2	See Note	NSS	SN Plate (Note:Stamped Part - Not Available for Purchase)	
3	4811400	2	Washer M4	
4	0760405	2	Bolt M4 x 10	
5	1001227670	1	Tag, RFID	

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FIGURE 3-15. BUCKET (96 INCH)



ART_1001100823_I

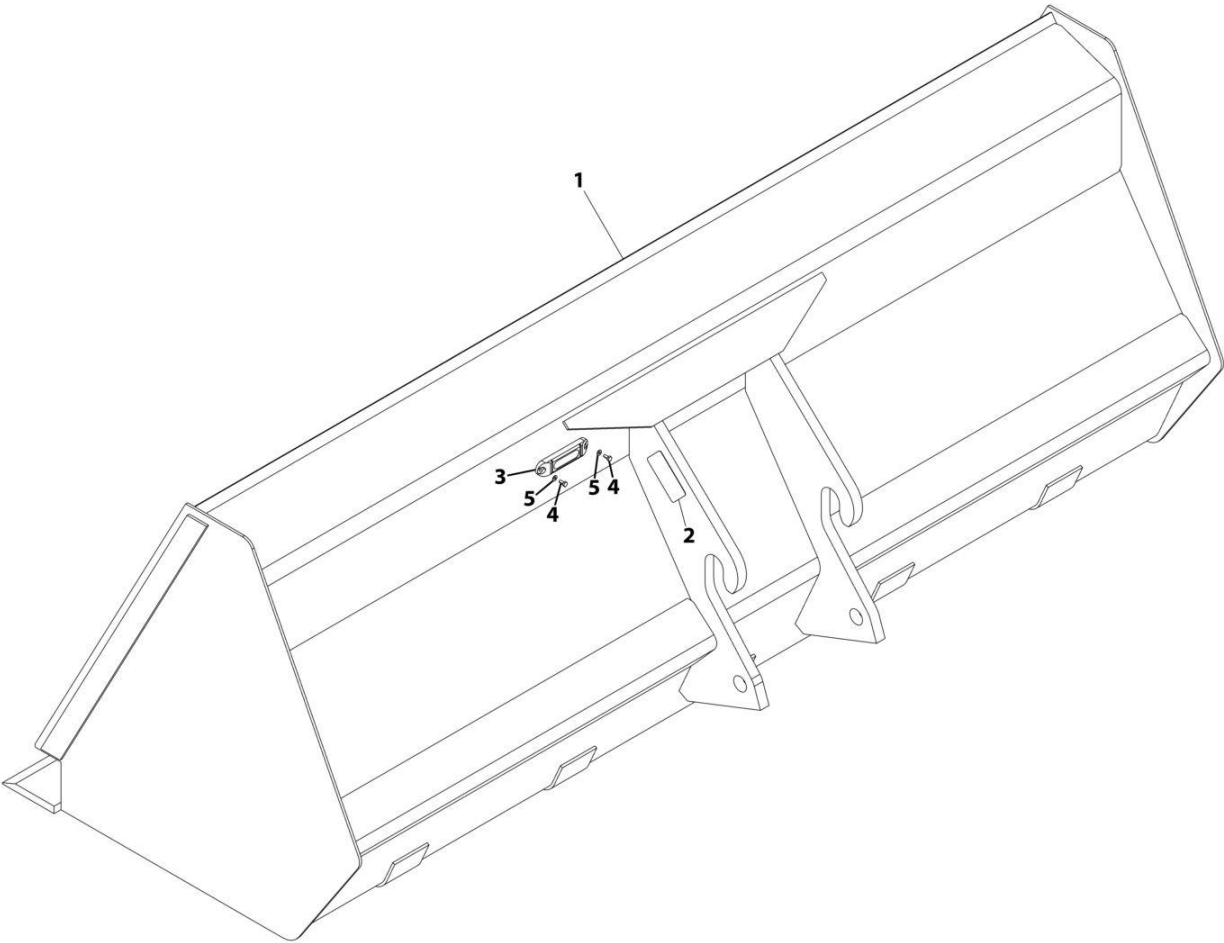
SECTION 3 - ATTACHMENTS

FIGURE 3-15. BUCKET (96 INCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100823	Ref	BUCKET (1.15 M ³)	I
1	1001100266	1	Bucket	
2	See Note	NSS	SN Plate (Note:Stamped Part - Not Available for Purchase)	
3	4811400	2	Washer M4	
4	0760405	2	Bolt M4 x 10	
5	1001227670	1	Tag, RFID	

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FIGURE 3-16. BUCKET (102 INCH)



ART_1001100824

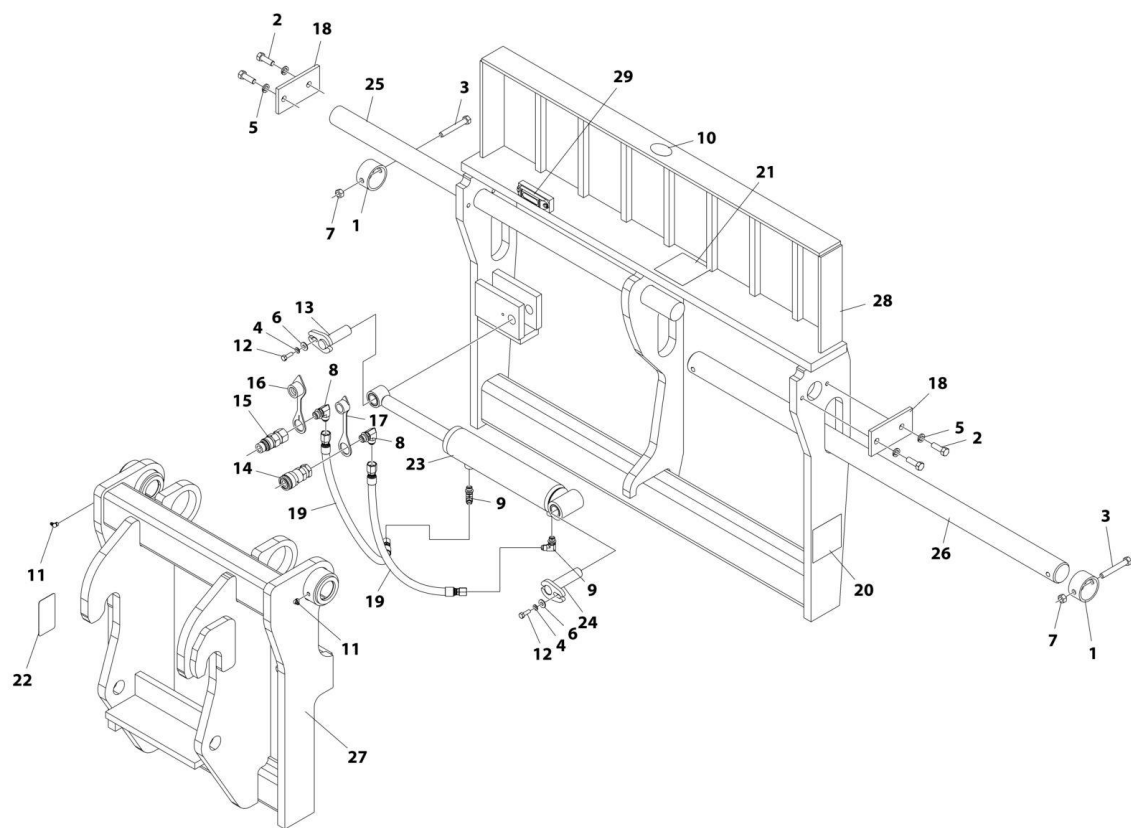
SECTION 3 - ATTACHMENTS

FIGURE 3-16. BUCKET (102 INCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100824	Ref	Bucket (102 Inch)	H
1	1001100267	NLA	Bucket (Note: Purchase PN 1001100824)	
2	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
3	1001227670	1	Tag, RFID	
4	0760405	2	Bolt M4 x 10	
5	4811400	2	Washer M4	

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FIGURE 3-17. SIDE SHIFT CARRIAGE ASSEMBLY (48 INCH 12K)



ART_1001242644_C

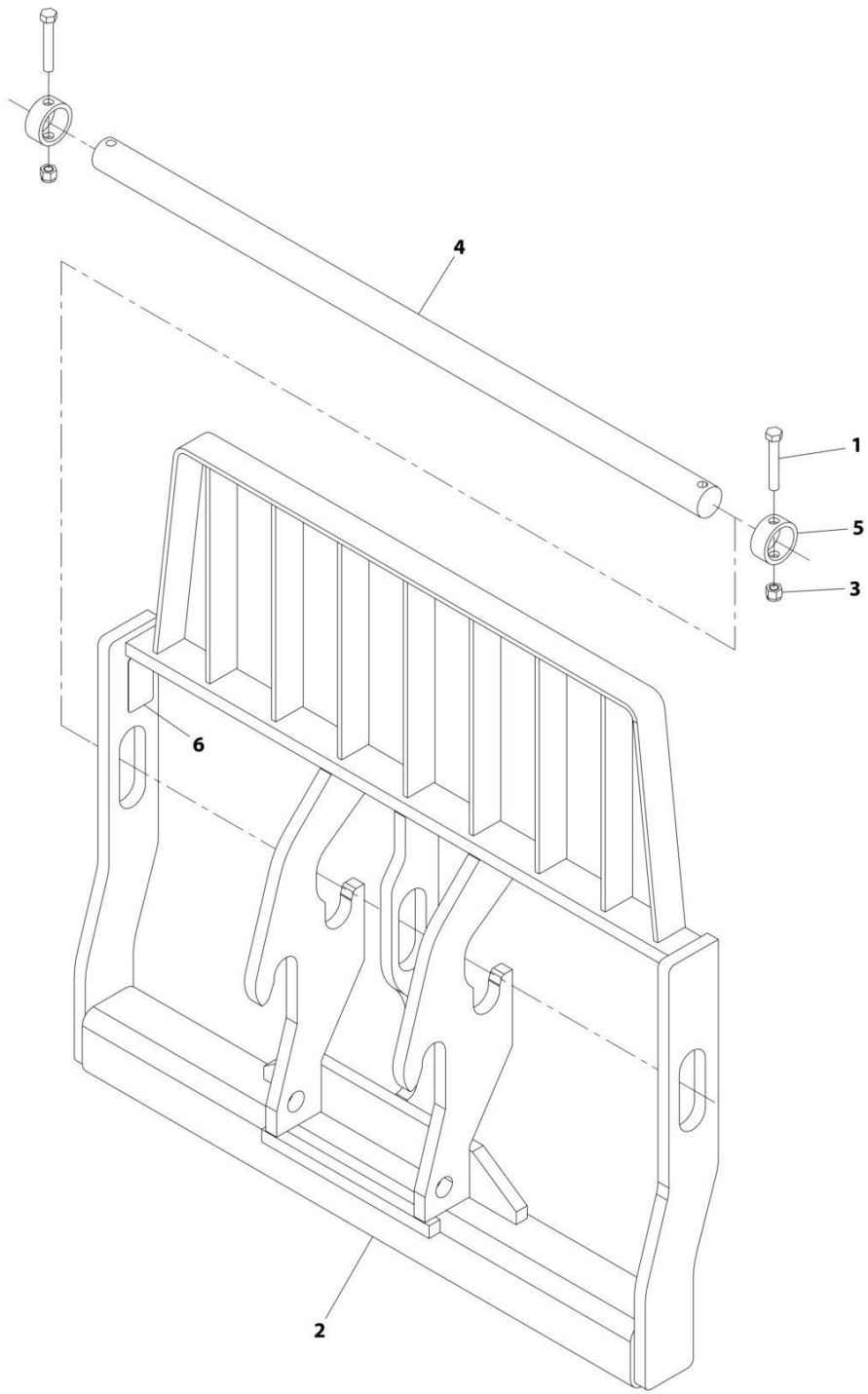
SECTION 3 - ATTACHMENTS

FIGURE 3-17. SIDE SHIFT CARRIAGE ASSEMBLY (48 INCH 12K)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242644	Ref	SIDE SHIFT CARRIAGE ASSEMBLY (48 INCH)	C
1	70020028	2	Bushing	
2	70021382	4	Bolt 1/2 x 1-1/2	
3	70020002	2	Bolt 1/2 x 4	
4	90554067	2	Washer 5/16	
5	90554020	4	Washer 1/2	
6	70021379	2	Washer	
7	70027642	2	Washer	
8	70030141	2	Elbow	
9	90554065	2	Elbow 90	
10	90554016	1	Decal - Made in USA	
11	70021389	2	Fitting 90	
12	70021378	2	Capscrew	
13	70021351	1	Pin	
14	91403413	1	Adapter	
15	91403414	1	Adapter	
16	8420053	1	Cap, Dust	
17	8420055	1	Plug, Dust	
18	70030142	2	Plate	
19	70030143	2	Hose 30in (Boom Front Disconnect)	
19	70031444	2	Hose 55in (Boom Side Disconnect)	
20	90554017	2	Decal - Danger Pinch Point	
21	7029711	1	Decal - High Pressure	
22	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
23	70021376	1	Cylinder Assembly (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
24	70021377	1	Pin	
25	70030144	1	Pin	
26	70030145	1	Pin	
27	See Note	NSS	Frame - Rear (Note: Purchase Complete Assembly)	
28	See Note	NSS	Frame - Front (Note: Purchase Complete Assembly)	
29	1001227670	1	Tag, RFID	

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FIGURE 3-18. CARRIAGE ASSEMBLY (50 INCH 12K)



ART_1170021-H

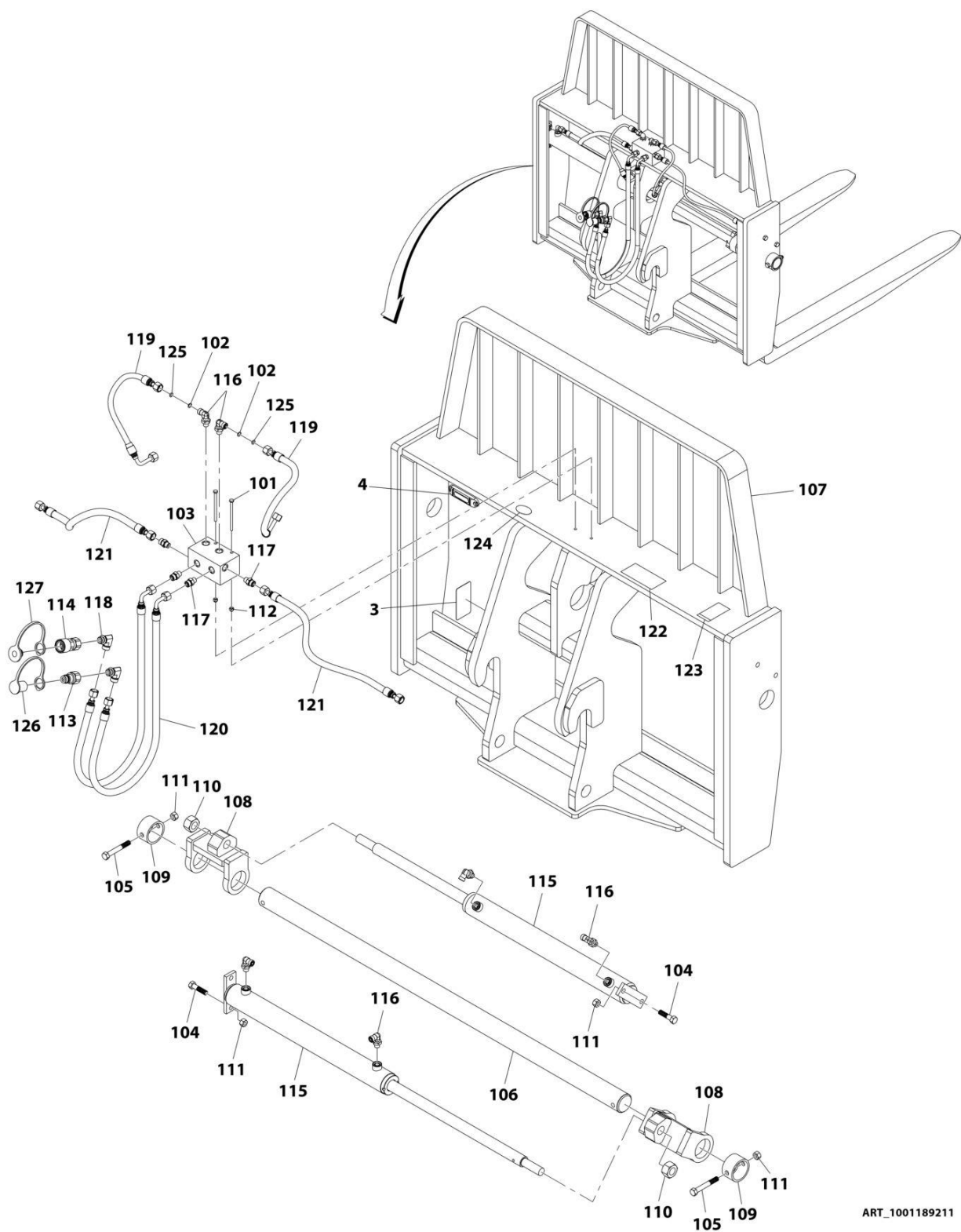
SECTION 3 - ATTACHMENTS

FIGURE 3-18. CARRIAGE ASSEMBLY (50 INCH 12K)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170021	Ref	Carriage Assembly (50 INCH)	H
1	0642032	2	Bolt, 5/8-11X4	
2	1170012	1	Weldment, Carriage	
3	3300240	2	Nut, Lock 5/8-11	
4	3423275	1	Pin, Fork	
5	90200003	2	Collar, Fork Pin	
6	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	

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FIGURE 3-19. CARRIAGE (50 INCH 12K) (DUAL FORK)



ART_1001189211

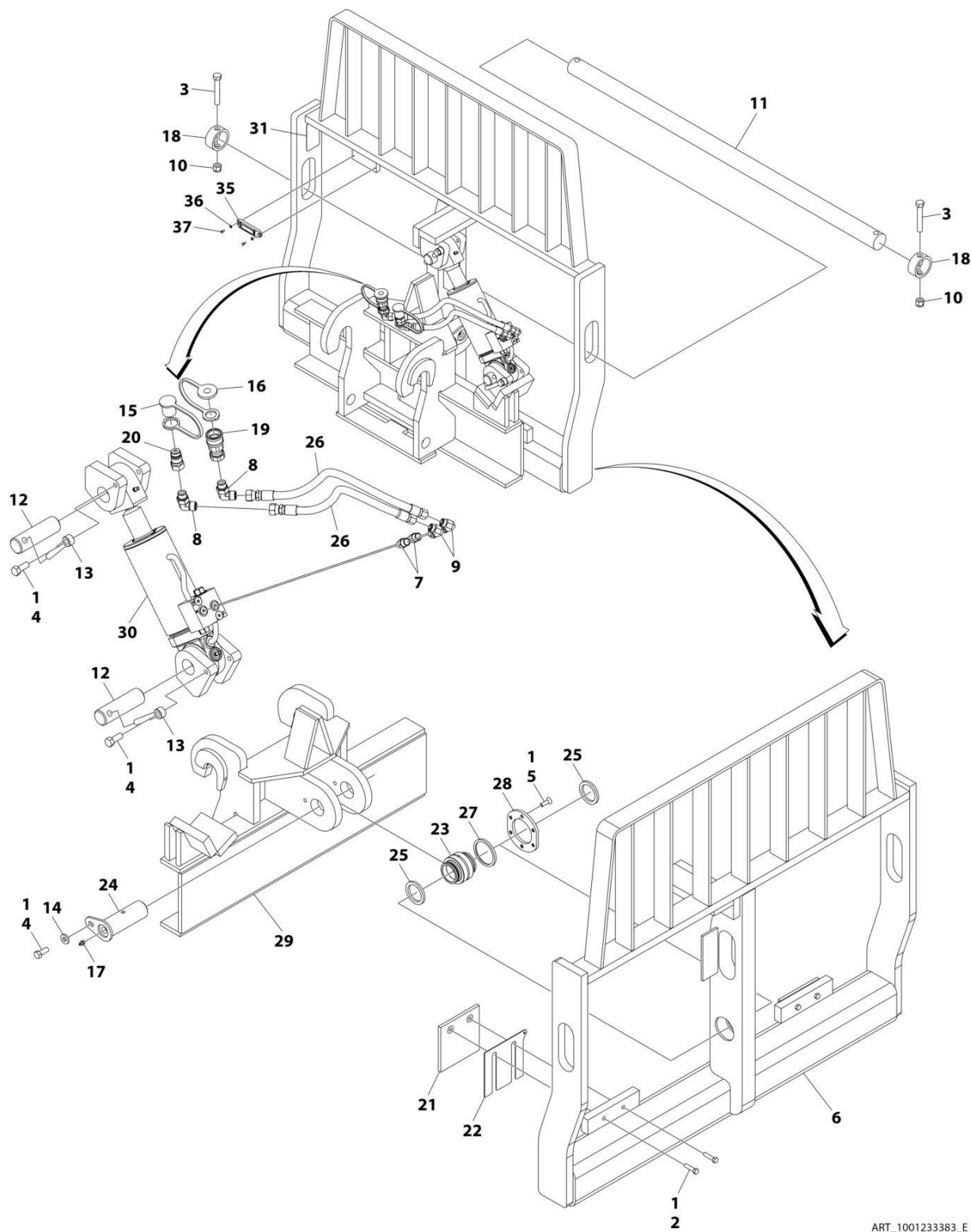
SECTION 3 - ATTACHMENTS

FIGURE 3-19. CARRIAGE (50 INCH 12K) (DUAL FORK)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189211	Ref	DUAL FORK POSITIONING CARRIAGE ASSEMBLY (50 INCH)	F
3	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
4	1001227670	1	Tag. RFID	
101	70028519	2	Bolt	
102	70028520	2	Orifice	
103	70028521	1	Valve	
104	90554019	4	Bolt	
105	70020002	2	Bolt	
106	70027283	1	Pin Fork	
107	See Note	NSS	Carriage (Note: Purchase Complete Assembly)	
108	70028522	2	Weldment, Fork Adapter	
109	70020028	2	Bushing	
110	70021440	2	Nut	
111	70028523	6	Nut	
112	70028524	2	Nut	
113	91403414	1	Adapter, Male Quick Disconnect	
114	91403413	1	Adapter, Female Quick Disconnect	
115	2717283	2	Cylinder, Dual Fork (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
116	70028525	6	Elbow, 90	
117	70028486	4	Fitting	
118	70028526	2	Elbow, 90	
119	70028527	2	Hose	
120	70028528	2	Hose 36in (Boom Front Disconnect)	
120	70031443	2	Hose 44in (Boom Side Disconnect)	
121	70028529	2	Hose	
122	70028530	1	Decal, Hose Routing	
123	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
124	90554016	1	Decal	
125	70028531	2	O-Ring	
126	8420055	1	Plug, Dust	
127	8420053	1	Cap, Dust	

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FIGURE 3-20. SIDE TILT CARRIAGE ASSEMBLY (50 INCH)



ART_1001233383_E

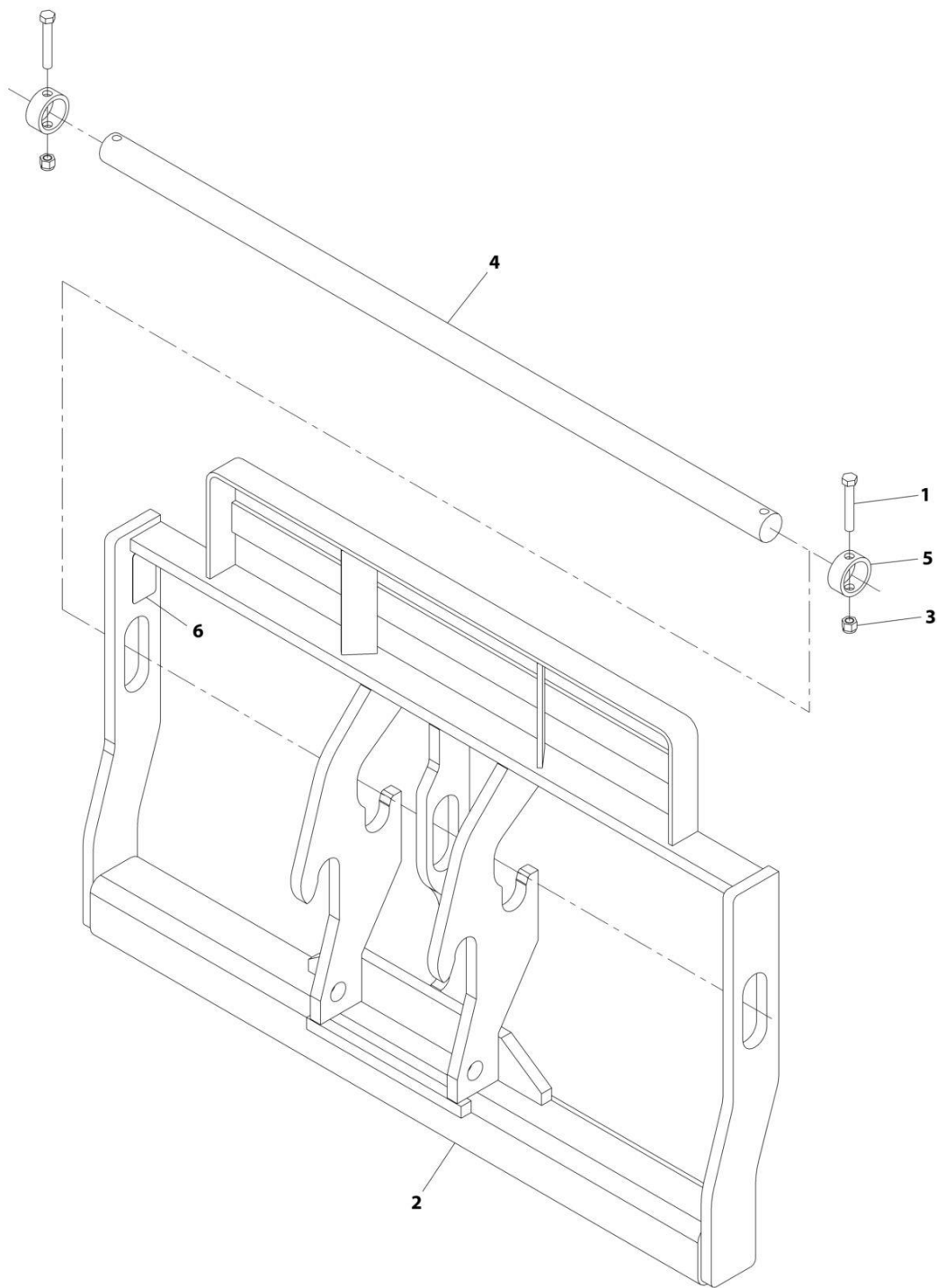
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FIGURE 3-20. SIDE TILT CARRIAGE ASSEMBLY (50 INCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233383	NLA	SIDE TILT CARRIAGE ASSEMBLY (50 INCH) (No longer available, use item 1 to 37 for service or 1001277290 for replacement)	E
1	0100011	AR	Compound, Locking	
2	0641612	4	Bolt 3/8 x 1-1/2	
3	0642032	2	Bolt 5/8 x 4	
4	0681810	3	Bolt 1/2 x 1-1/4	
5	0741610	6	Screw 3/8 x 1.25	
6	See Note	NSS	Carriage (Note: Purchase Complete Assembly)	
7	2110606	2	Fitting, Straight ORFS	
8	2130808	2	Adapter, 90	
9	2172106	2	Fitting, 90 ORFS	
10	3300240	2	Nut 5/8	
11	3423275	1	Pin	
12	3423307	2	Pin	
13	3841203	2	Keeper	
14	4891800	1	Flatwasher	
15	8420053	1	Cap	
16	8420055	1	Plug	
17	88671001	1	Fitting, Grease	
18	90200003	2	Collar	
19	91403413	1	Fitting, Straight	
20	91403414	1	Fitting, Straight	
21	1001090063	2	Pad	
22	1001090064	AR	Shim	
23	1001090140	1	Bearing	
24	1001099113	1	Pin	
25	1001099115	2	Sleeve	
26	1001239734	2	Hose	
27	1001120914	1	Shim	
28	1001120915	1	Plate	
29	See Note	NSS	Carriage, Base Plate (Note: Purchase Complete Assembly)	
30	1001163414	1	Cylinder, Side Tilt (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
31	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
35	1001227670	1	Tag, RFID	
36	4811400	2	Washer M4	
37	0760405	2	Bolt M4 x 10	

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FIGURE 3-21. CARRIAGE ASSEMBLY (60 INCH 12K)



ART_1170024-H

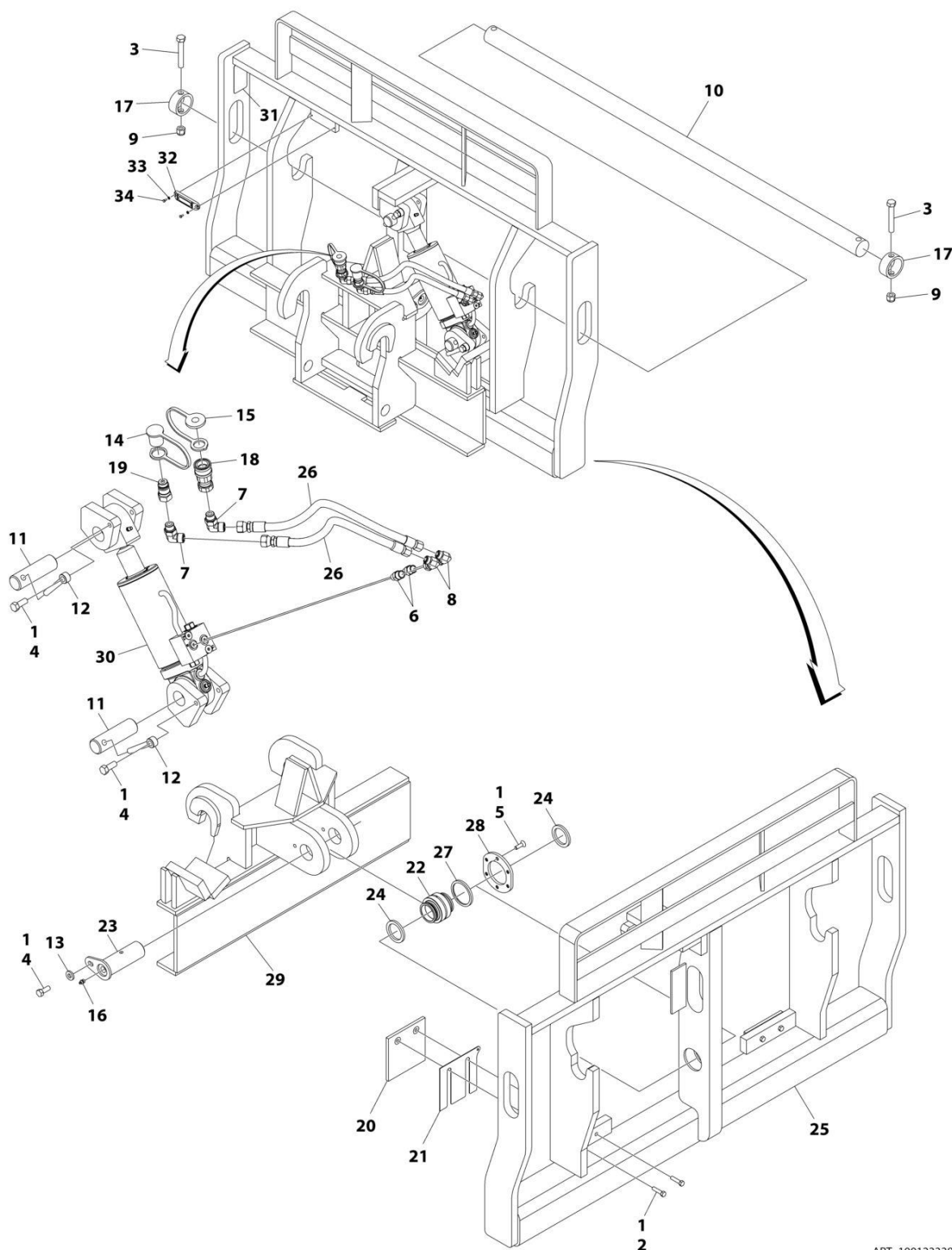
SECTION 3 - ATTACHMENTS

FIGURE 3-21. CARRIAGE ASSEMBLY (60 INCH 12K)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170024	Ref	Carriage Assembly (1524 MM)	H
1	0642032	2	Bolt 5/8 x 4	
2	See Note	NSS	Carriage (Note: Purchase Complete Assembly)	
3	3300240	2	Nut 5/8	
4	3423242	1	Pin	
5	90200003	2	Sleeve	
6	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	

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FIGURE 3-22. SIDE TILT CARRIAGE ASSEMBLY (60 INCH)



ART_1001233384_F

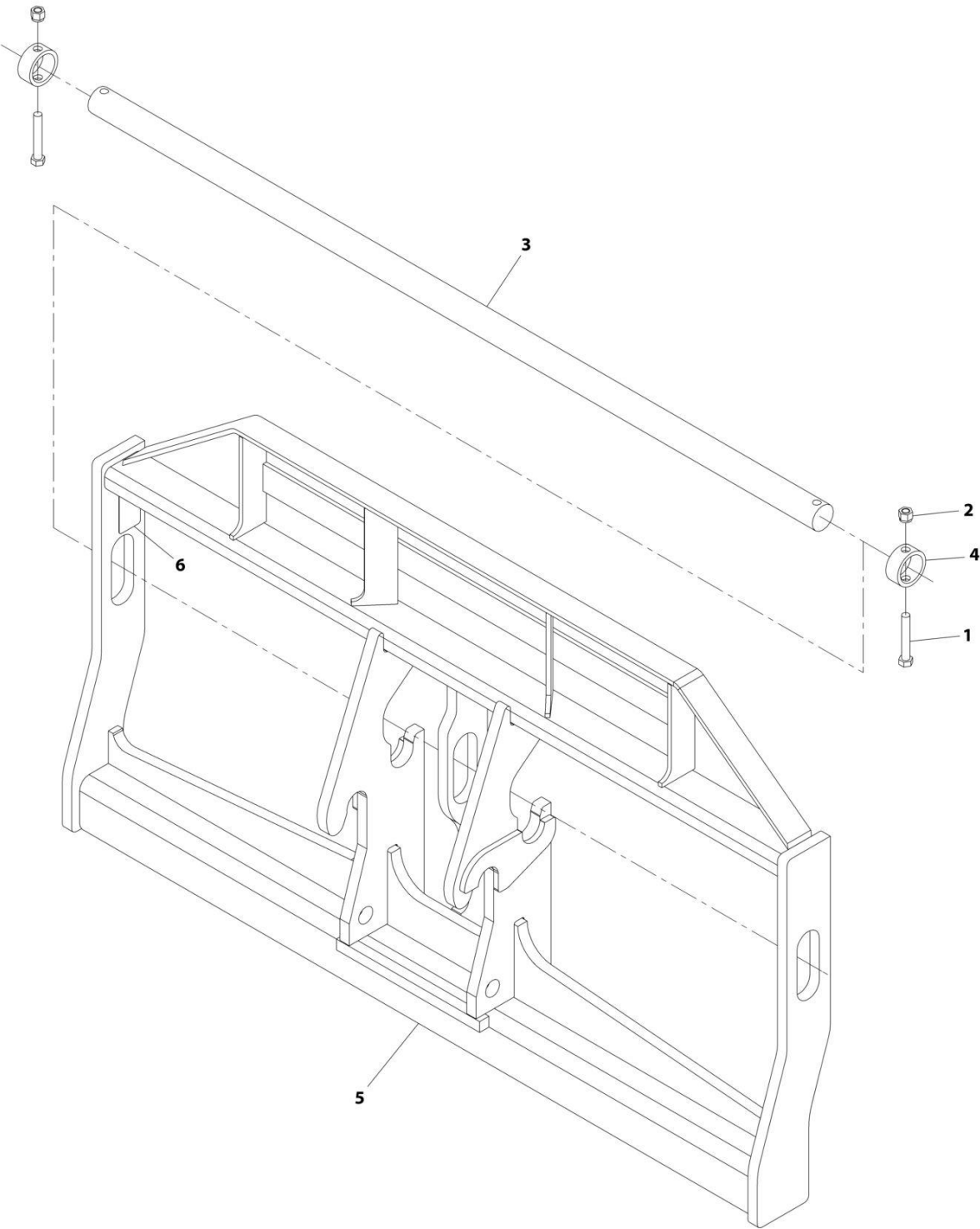
SECTION 3 - ATTACHMENTS

FIGURE 3-22. SIDE TILT CARRIAGE ASSEMBLY (60 INCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233384	Ref	SIDE TILT CARRIAGE ASSEMBLY (60 INCH)	F
1	0100011	AR	Compound, Locking	
2	0641612	4	Bolt 3/8 x 1-1/2	
3	0642032	2	Bolt 5/8 x 4	
4	0681810	3	Bolt 1/2 x 1-1/4	
5	0741610	6	Screw 3/8 x 1-1/4	
6	2110606	2	Fitting, Straight	
7	2130808	2	Adapter, 90	
8	2172106	2	Fitting, 90	
9	3300240	2	Nut 5/8	
10	3423242	1	Pin	
11	3423307	2	Pin	
12	3841203	2	Keeper	
13	4891800	1	Washer	
14	8420053	1	Cap	
15	8420055	1	Plug	
16	88671001	1	Fitting, Grease	
17	90200003	2	Collar	
18	91403413	1	Fitting, Straight	
19	91403414	1	Fitting, Straight	
20	1001090063	2	Pad	
21	1001090064	AR	Shim	
22	1001090140	1	Bearing	
23	1001099113	1	Pin	
24	1001099115	2	Sleeve	
25	See Note	NSS	Carriage, Side Tilt (Note: Purchase Complete Assembly)	
26	1001239734	2	Hose	
27	1001120914	1	Shim	
28	1001120915	1	Plate	
29	1001133072	1	Carriage, Base Pivot	
30	1001163414	1	Cylinder, Side Tilt (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
31	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
32	1001227670	1	Tag, RFID	
33	4811400	2	Washer M4	
34	0760405	2	Bolt M4 x 10	

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FIGURE 3-23. CARRIAGE ASSEMBLY (72 INCH 12K)



ART_1001211516-D

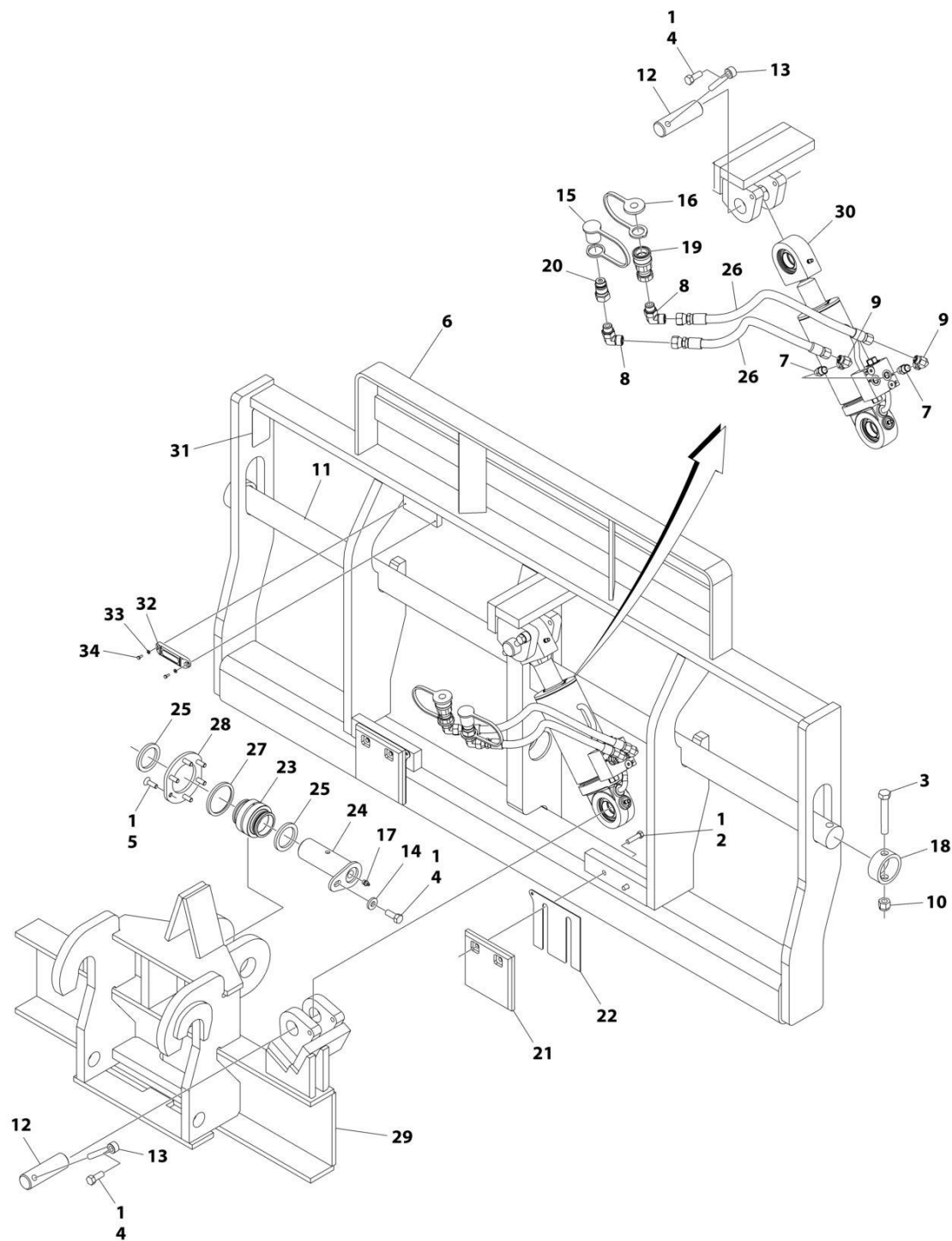
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FIGURE 3-23. CARRIAGE ASSEMBLY (72 INCH 12K)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001211516	Ref	CARRIAGE ASSEMBLY (72 INCH)	D
1	0642032	2	Bolt 5/8 x 4	
2	3300240	2	Nut 5/8	
3	3423276	1	Pin	
4	90200003	2	Sleeve	
5	See Note	NSS	Carriage (Note: Purchase Complete Assembly)	
6	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	

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FIGURE 3-24. SIDE TILT CARRIAGE ASSEMBLY (72 INCH)



ART_1001233385_E

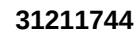
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FIGURE 3-24. SIDE TILT CARRIAGE ASSEMBLY (72 INCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233385	NLA	SIDE TILT CARRIAGE ASSEMBLY (72 INCH) (No longer available, use item 1 to 34 for service or 1001276666 for replacement)	E
1	0100011	AR	Compound, Locking	
2	0641612	4	Bolt 3/8 x 1-1/2	
3	0642032	2	Bolt 5/8 x 4	
4	0681810	3	Bolt 1/2 x 1-1/4	
5	0741610	6	Screw 3/8 x 1-1/4	
5	See Note	NSS	Carriage, Side Tilt (Note: Purchase Complete Assembly)	
7	2110606	2	Adapter, Straight	
8	2130808	2	Adapter, 90	
9	2172106	2	Adapter, 90	
10	3300240	2	Nut 5/8	
11	3423276	1	Pin, Fork	
12	3423307	2	Pin, Side Tilt Cylinder	
13	3841203	2	Keeper, Rod	
14	4891800	1	Washer 1/2	
15	8420053	1	Cap, Dust	
16	8420055	1	Plug, Dust	
17	88671001	1	Fitting, Grease	
18	90200003	2	Collar, Fork Pin	
19	91403413	1	Adapter	
20	91403414	1	Adapter	
21	1001090063	2	Pad, Wear	
22	1001090064	AR	Shim, Wear Pad	
23	1001090140	1	Bearing, Side Tilt Spherical	
24	1001099113	1	Pin, Side Tilt Frame Pivot	
25	1001099115	2	Sleeve, Tilt Bearing Spacer	
26	1001239734	2	Hose	
27	1001120914	1	Shim, Bearing Retainer	
28	1001120915	1	Plate, Bearing Retainer	
29	1001133072	1	Carriage, Base Pivot	
30	1001163414	1	Cylinder, Side Tilt (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
31	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
32	1001227670	1	Tag, RFID	
33	4811400	2	Washer M4	
34	0760405	2	Bolt M4 x 10	

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ART_1001095418_V

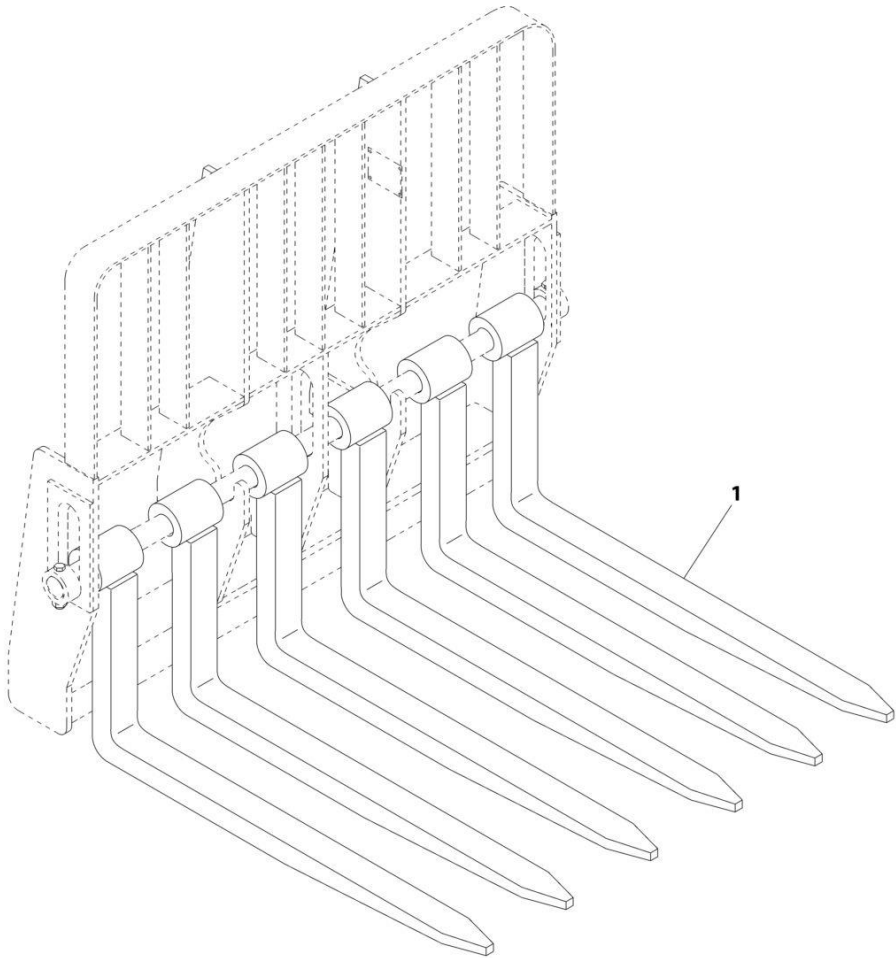
SECTION 3 - ATTACHMENTS

FIGURE 3-25. CARRIAGE ASSEMBLY (72 INCH 10K) (90 DEGREE SWING)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001095418	Ref	CARRIAGE ASSEMBLY - SWING (72 INCH)	V
1	2220415	4	Fitting, Straight ORFS	
2	2220473	2	Fitting, 90 ORFS	
4	1001211139	2	Adapter, 90	
5	1001103182	1	Swing Carriage Cylinder (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
6	2717287	2	Hose 58IN (Boom Front Disconnect)	
6	1001301599	1	Hose 66IN (Boom Side Disconnect)	
6	1001301600	1	Hose 46IN (Boom Side Disconnect)	
7	3423276	1	Pin	
11	6604662	2	Hose	
12	7062922	1	Washer	
13	See Note	NSS	Pivot (Note: Purchase Complete Assembly)	
14	7110702	2	Pin	
15	7110712	1	Pin	
16	7110722	2	Pin	
17	8065062	2	Bushing	
18	8303634	5	Bolt 5/8 x 4	
19	8303715	3	Bolt 5/16 x 1-1/2	
20	8305643	5	Nut 5/8	
21	8307904	AR	Washer	
22	8307918	AR	Washer	
23	8310160	AR	Washer	
24	8310161	AR	Washer	
25	8420053	1	Cap	
26	8420055	1	Plug	
27	8580315	2	Plug	
28	8584001	5	Tie Wrap	
29	8642207	4	Ring, Retaining	
30	8769132	2	Clamp	
31	8770016	2	Fitting, Straight ORFS	
32	90200003	2	Collar	
33	91403413	1	Fitting, Straight ORFS	
34	91403414	1	Fitting, Straight	
35	See Note	NSS	Carriage (Note: Purchase Complete Assembly)	
36	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
37	1001110704	1	Decal, Warning Crushing Hazard	
38	1001111190	2	Decal, Warning	
39	4811400	2	Washer M4	
40	0760405	2	Bolt M4 x 10	
41	1001227670	1	Tag - RFID	

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FIGURE 3-26. FORK - BLOCKING (50X50X1220MM)



ART_2340037

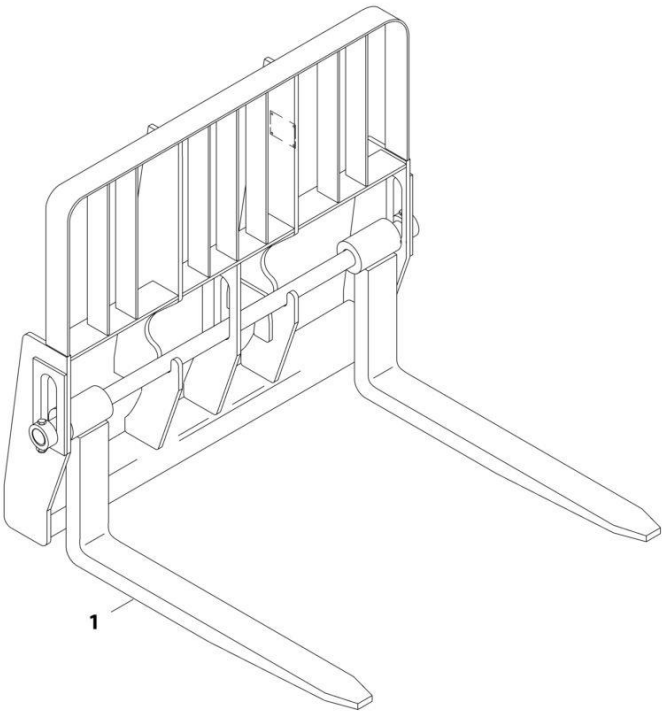
SECTION 3 - ATTACHMENTS

FIGURE 3-26. FORK - BLOCKING (50X50X1220MM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340037	1	Cubing Fork (2.00X2X48)	A
	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.	
	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

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FIGURE 3-27. FORK - LUMBER (50X180X1540MM)



ART_1001097110-A

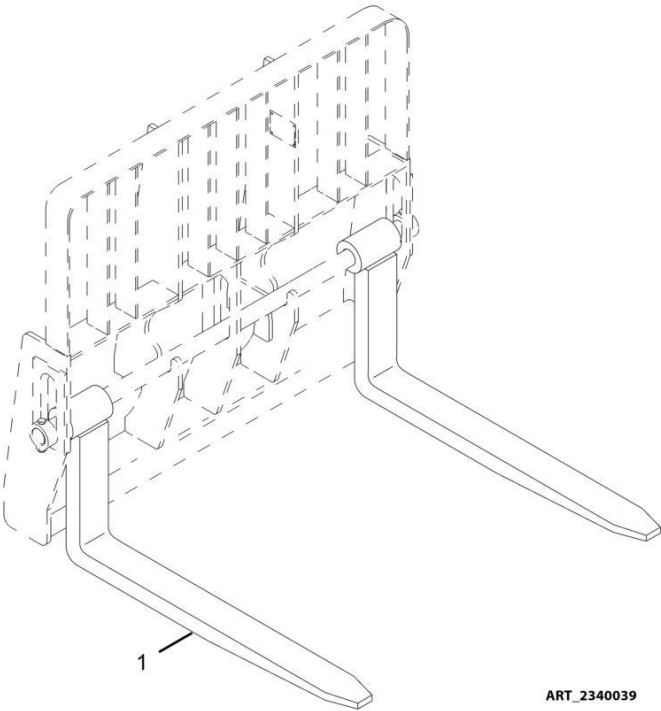
SECTION 3 - ATTACHMENTS

FIGURE 3-27. FORK - LUMBER (50X180X1540MM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001097110	2	Lumber Fork (2.00X7X60)	A
	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.	
	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-28. FORK - LUMBER (60X150X1524MM)



ART_2340039

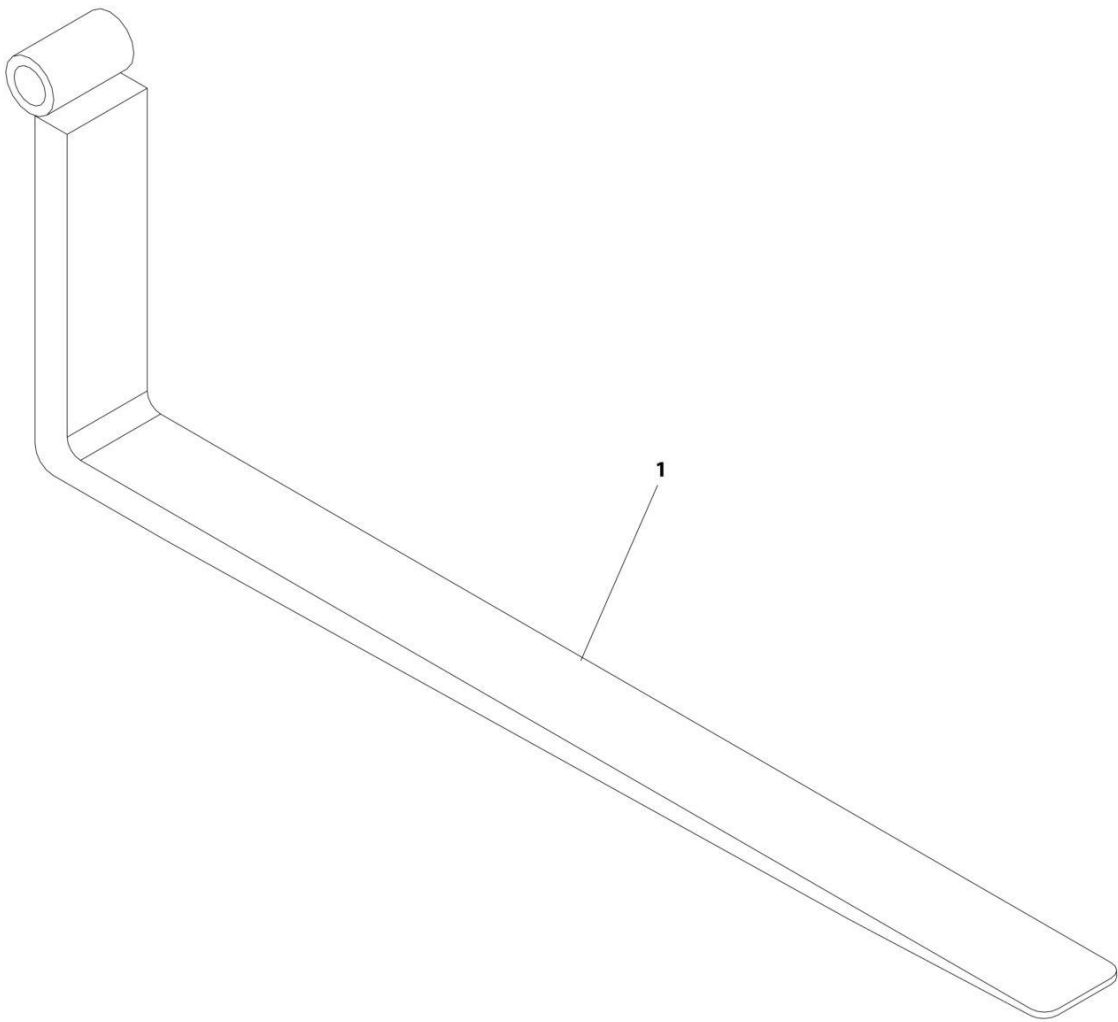
SECTION 3 - ATTACHMENTS

FIGURE 3-28. FORK - LUMBER (60X150X1524MM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340039	2	Lumber Fork (60X150X1524)	
	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.	
	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-29. FORK - LUMBER (2.00X6X72)



ART_1001259206

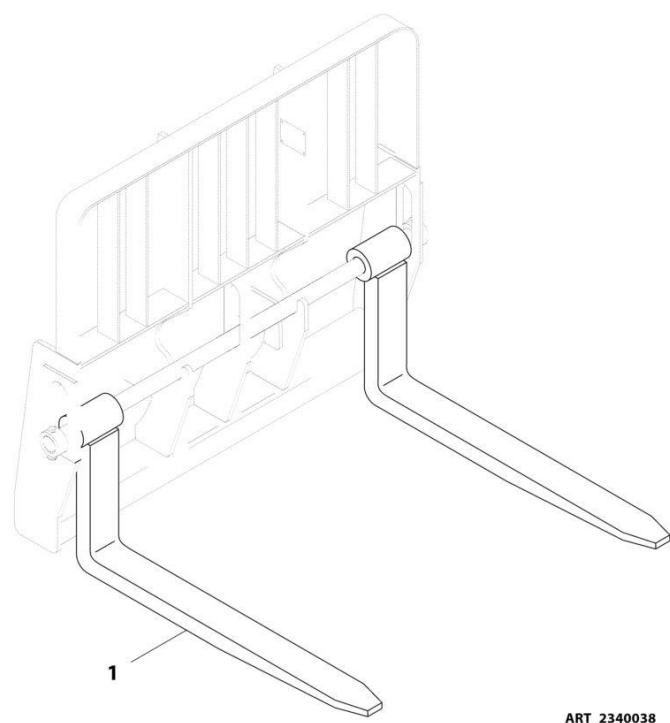
SECTION 3 - ATTACHMENTS

FIGURE 3-29. FORK - LUMBER (2.00X6X72)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001259206	2	Dual Taper Fork (2.00X6X72)	A
	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.	
	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-30. FORK - PALLET (2.36X5X48)



ART_2340038

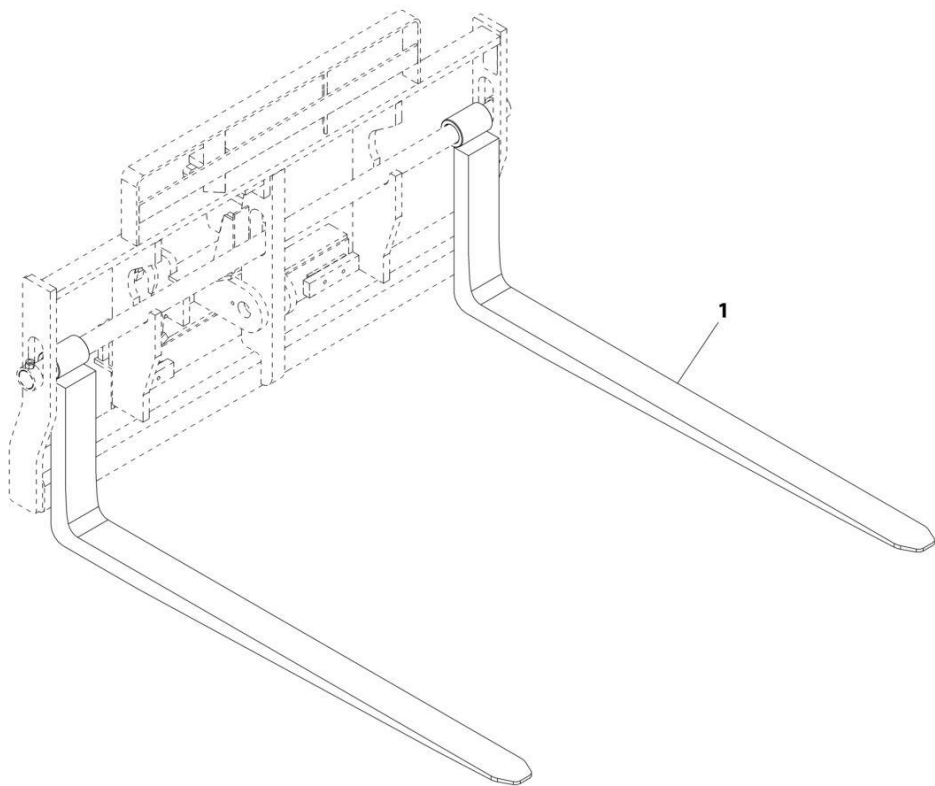
SECTION 3 - ATTACHMENTS

FIGURE 3-30. FORK - PALLET (2.36X5X48)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340038	2	Pallet Fork (2.36X5X48)	B
	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.	
	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-31. FORK - PALLET (2.36X5X72)



ART_1001232355

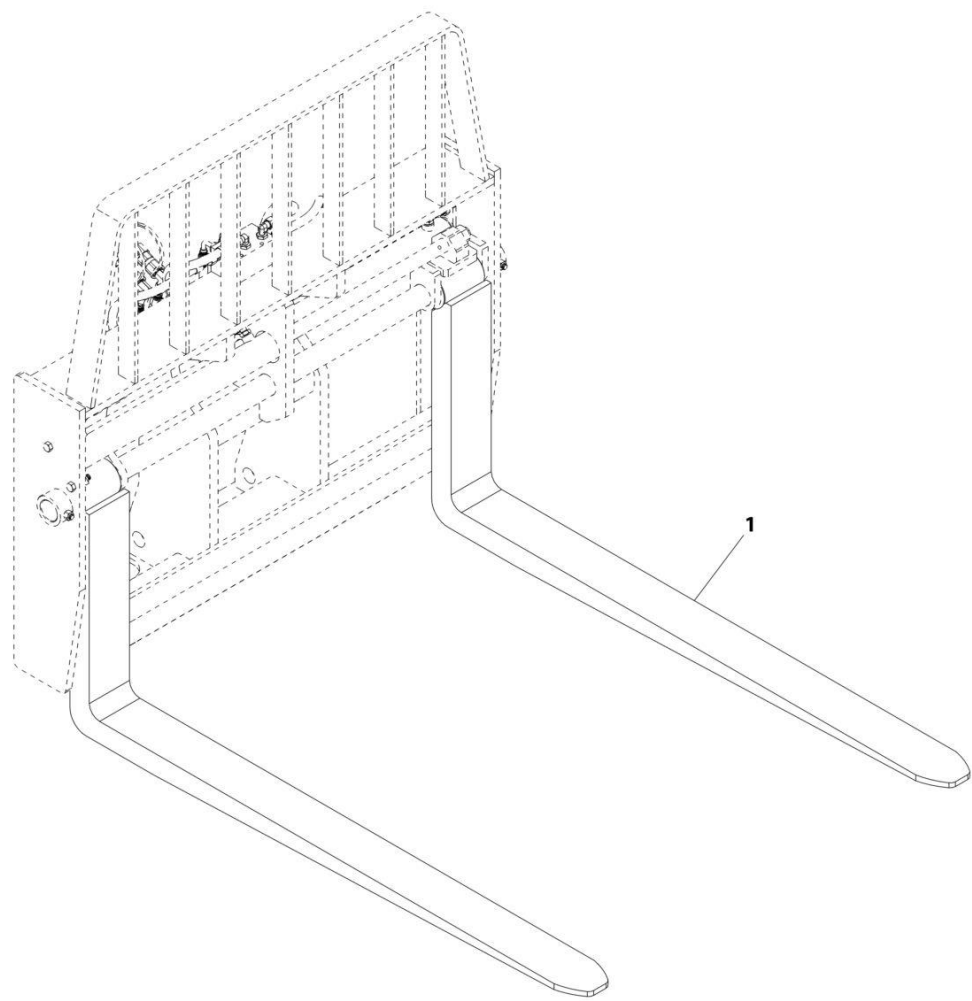
SECTION 3 - ATTACHMENTS

FIGURE 3-31. FORK - PALLET (2.36X5X72)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232355	1 pr	Pallet Fork (2.36X5X72)	A
	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.	
	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-32. FORK - PALLET (60X125X1524MM)



ART_1001227382

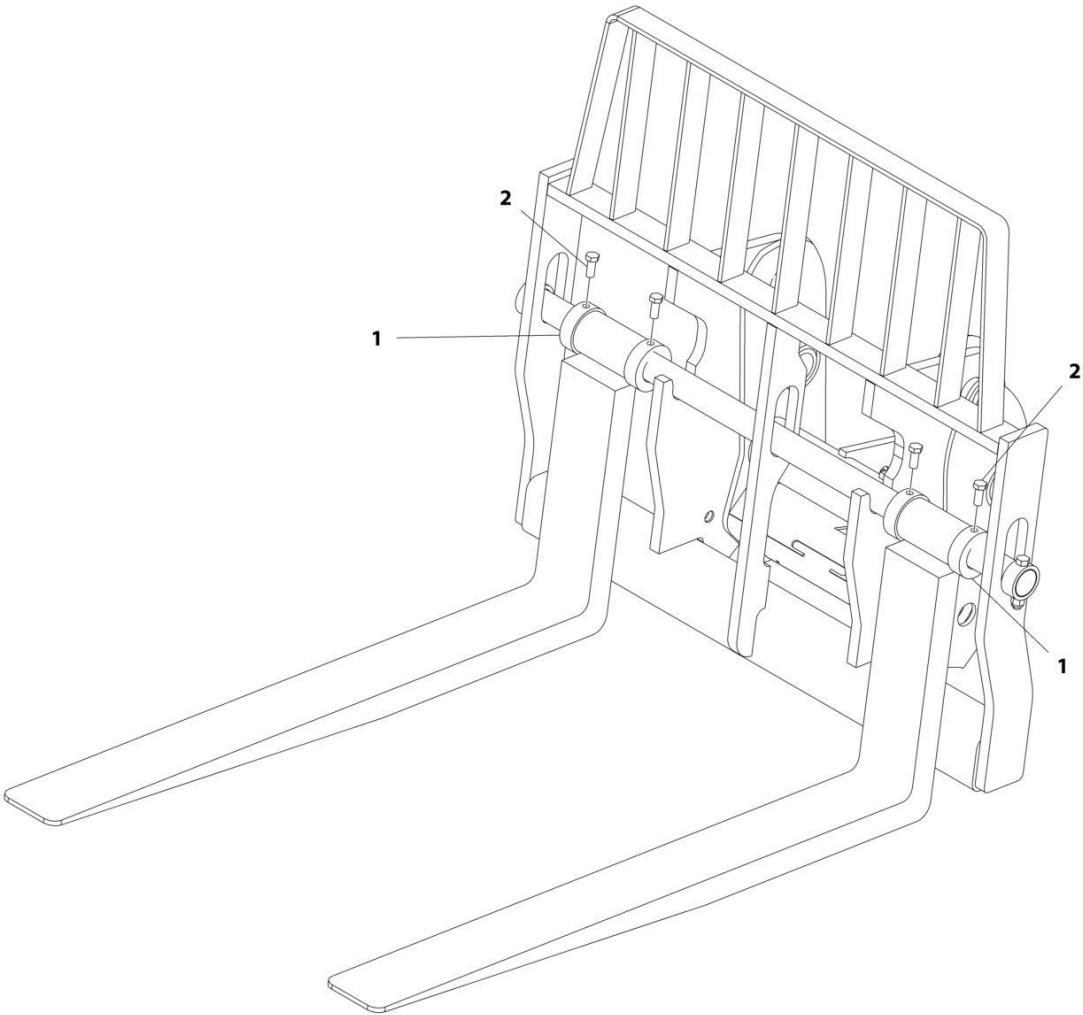
SECTION 3 - ATTACHMENTS

FIGURE 3-32. FORK - PALLET (60X125X1524MM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001227382	1	Pallet Fork (2.36X5X60)	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.	
N2	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-33. FORK CLAMPS INSTALLATION



ART_1001094134-A

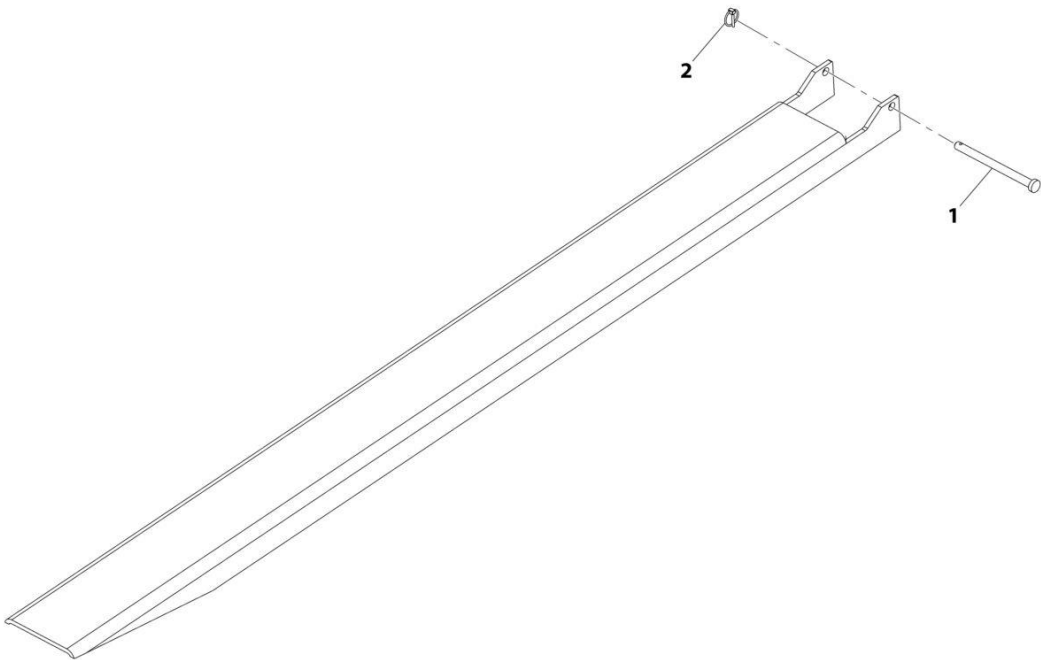
SECTION 3 - ATTACHMENTS

FIGURE 3-33. FORK CLAMPS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001094134	Ref	Fork Clamps Installation	A
1	1001094136	4	Clamp, Fork	
2	10700681	4	Bolt, 0.625-18X1.5	

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FIGURE 3-34. FORK EXTENSIONS (62X163X2286MM)



ART_1001137512-D

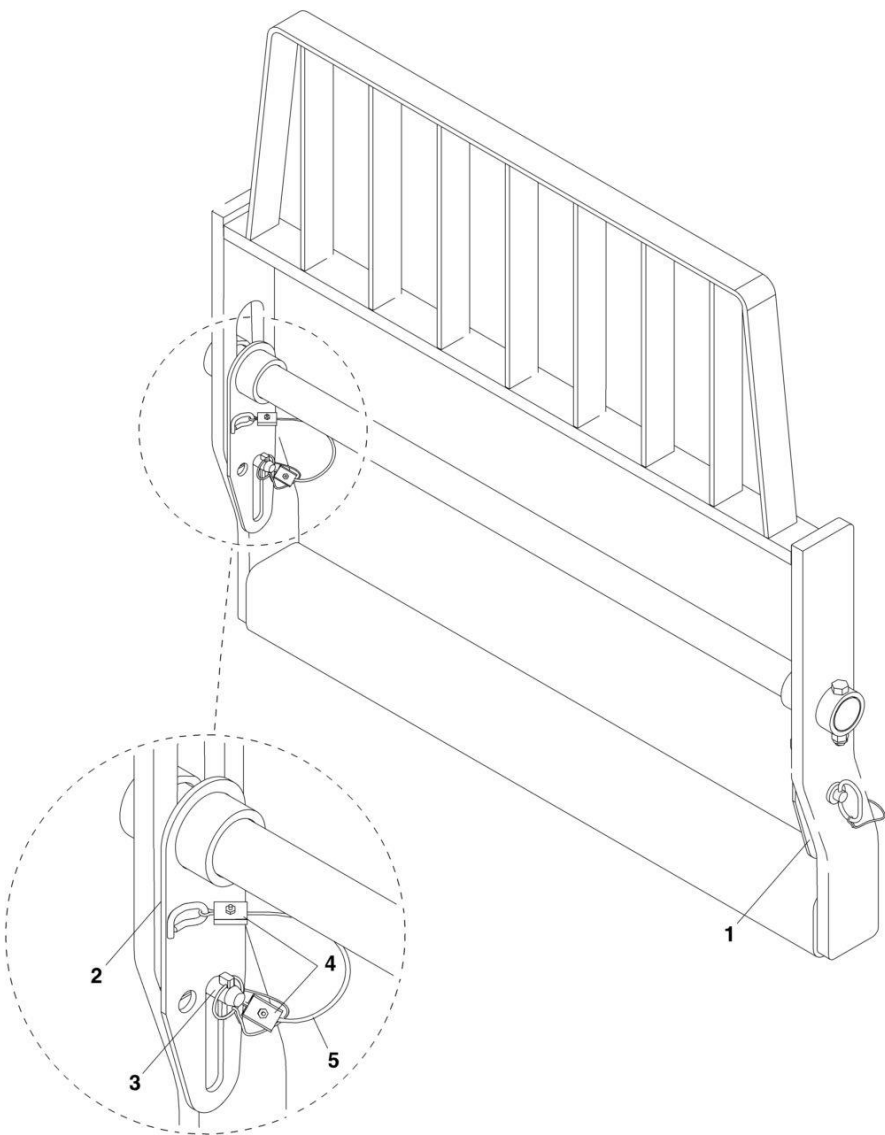
SECTION 3 - ATTACHMENTS

FIGURE 3-34. FORK EXTENSIONS (62X163X2286MM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001137512	2 pr	Fork Extensions (62X163X2286)	D
1	70024306	1	Pin	
2	70024307	1	Clip	

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FIGURE 3-35. FORK PIN LOCK INSTALLATION



ART_1001093465_B

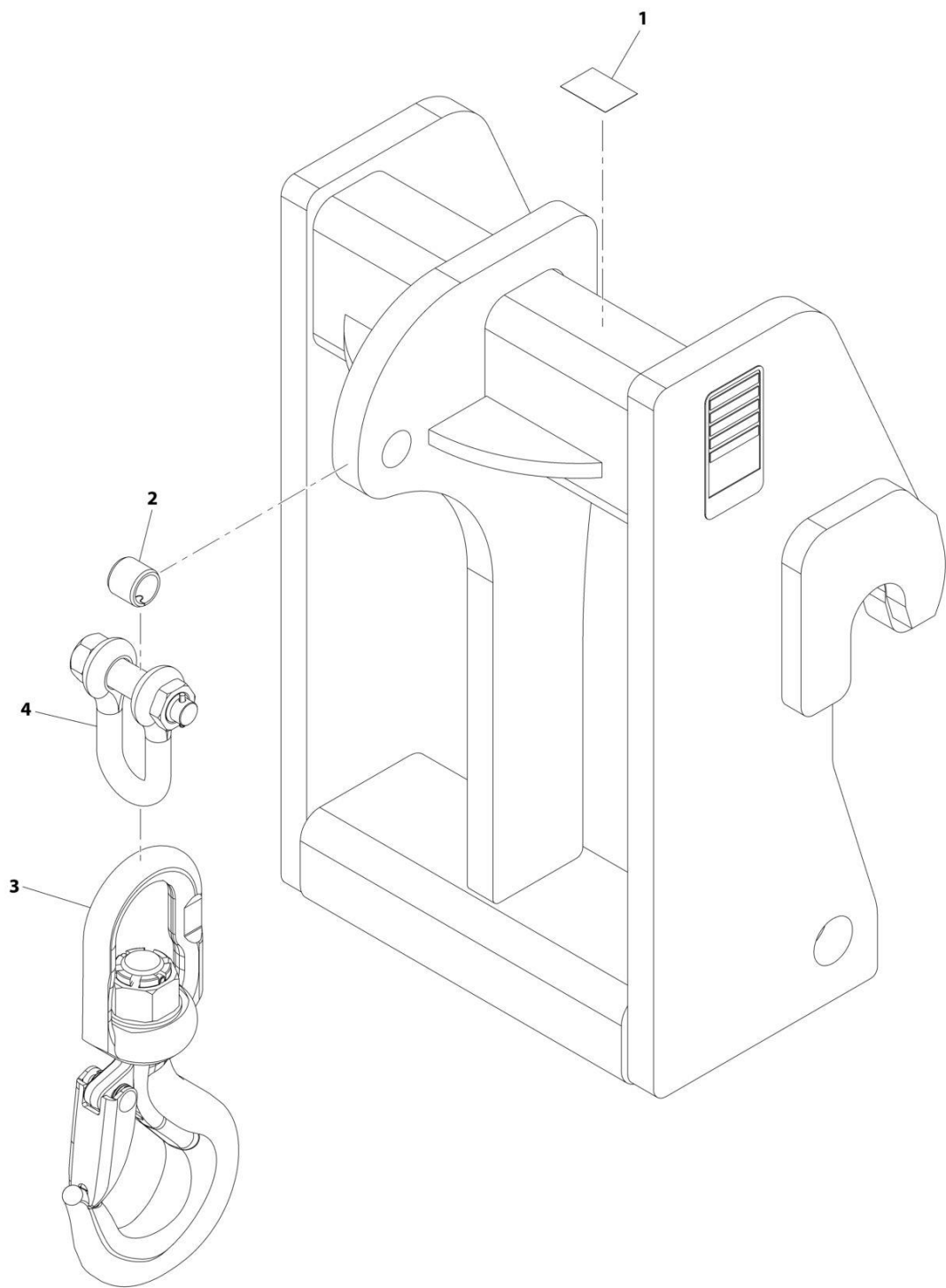
SECTION 3 - ATTACHMENTS

FIGURE 3-35. FORK PIN LOCK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001093465	Ref	Fork Pin Lock Installation	B
1	0240156	1	Lock, LH Fork Pin	
2	1001093273	1	Lock, RH Fork Pin	
3	1001093377	2	Pin, Hitch	
4	1001094830	4	Clamp	
5	1001094330	2	Lanyard	

SECTION 3 - ATTACHMENTS

FIGURE 3-36. HOOK - CRANE



ART_1001207606-C

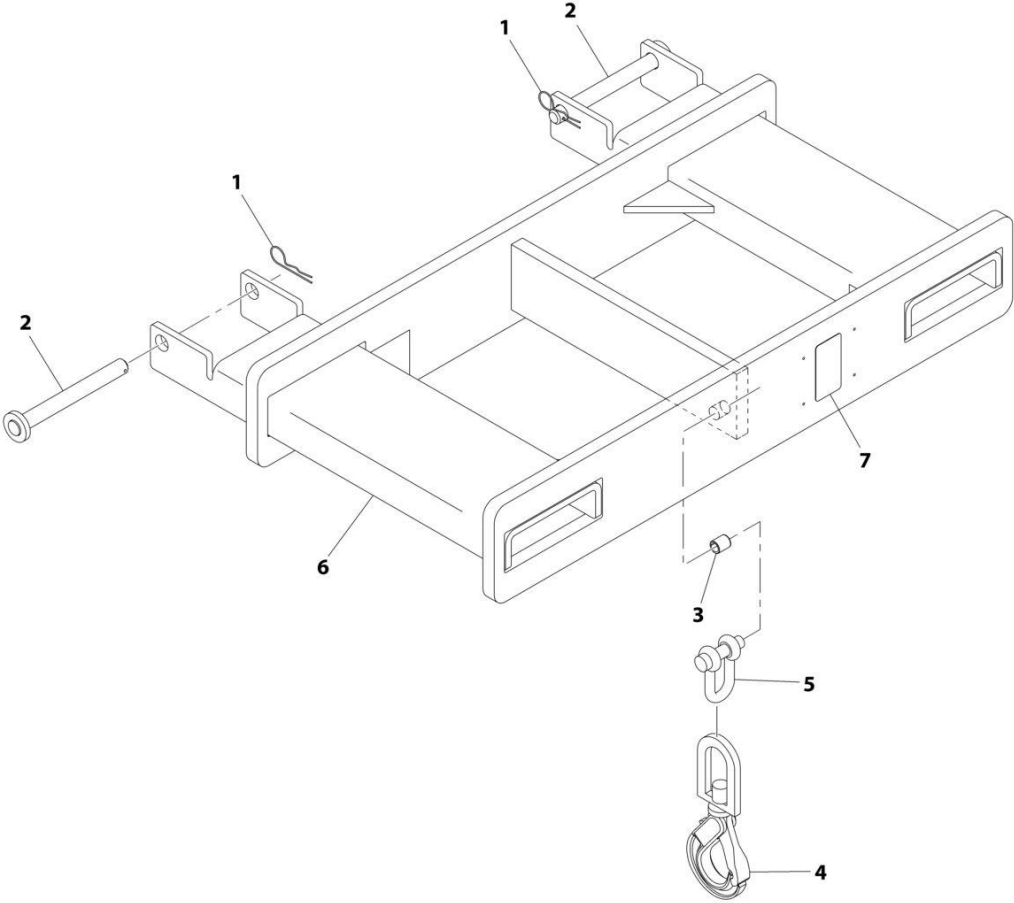
SECTION 3 - ATTACHMENTS

FIGURE 3-36. HOOK - CRANE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001207606	Ref	COUPLER MOUNTED HOOK	C
1	90554016	1	Decal	
2	70020555	1	Bushing	
3	70026745	1	Hook Swivel	
4	70026746	1	Shackle Chain	

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FIGURE 3-37. HOOK - FRAME MOUNTED (4T)



ART_1001097205-I

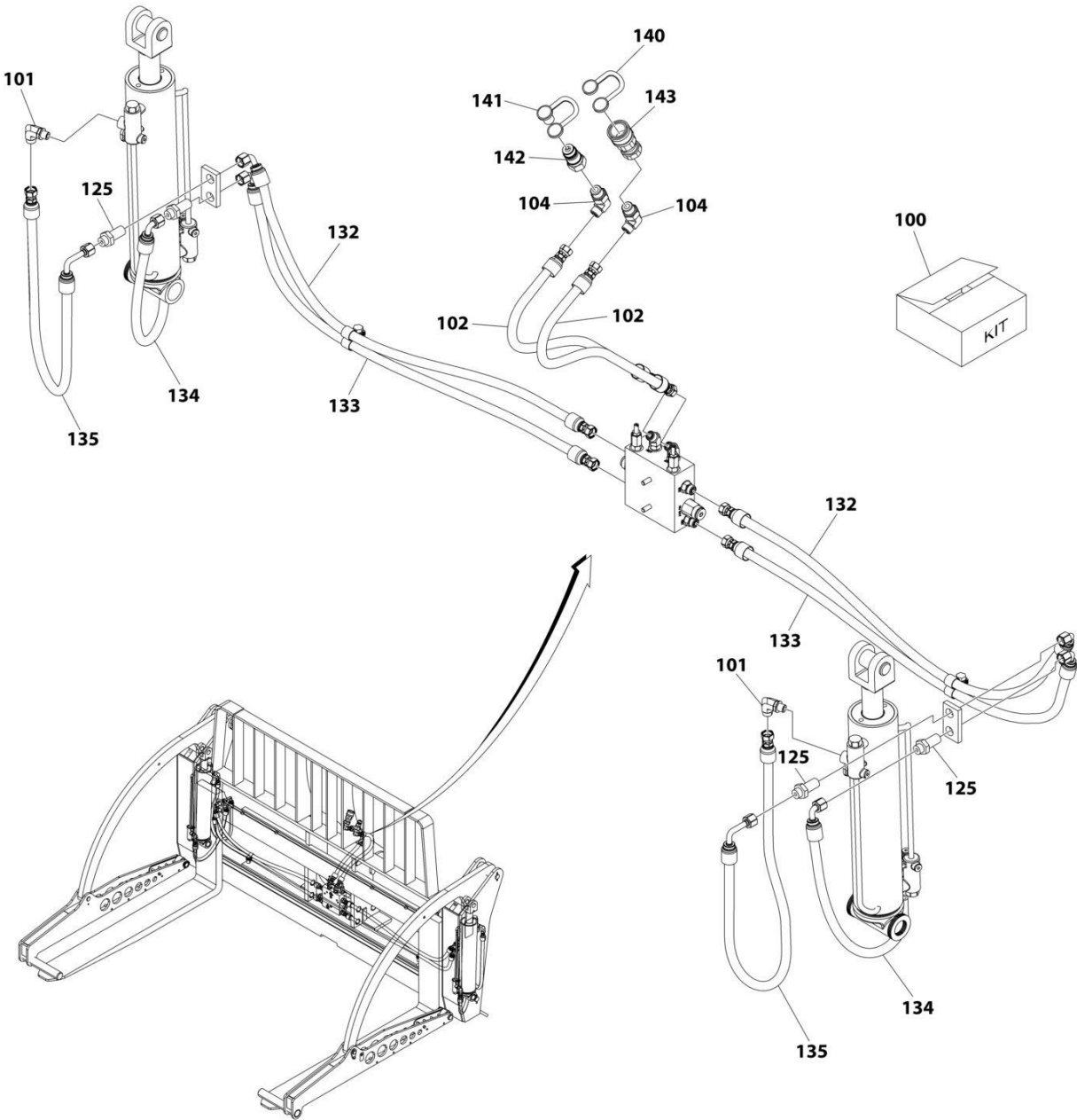
SECTION 3 - ATTACHMENTS

FIGURE 3-37. HOOK - FRAME MOUNTED (4T)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001097205	Ref	Fork Mounted Hook (4 Ton)	J
1	7029520	2	Pin, Cotter	
2	1001093171	2	Pin	
3	70020555	1	Bushing	
4	90554080	1	Hook	
5	7029521	1	Shackle	
6	See Note	NSS	Frame, Hook (Note: Purchase Complete Assembly)	
7	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	

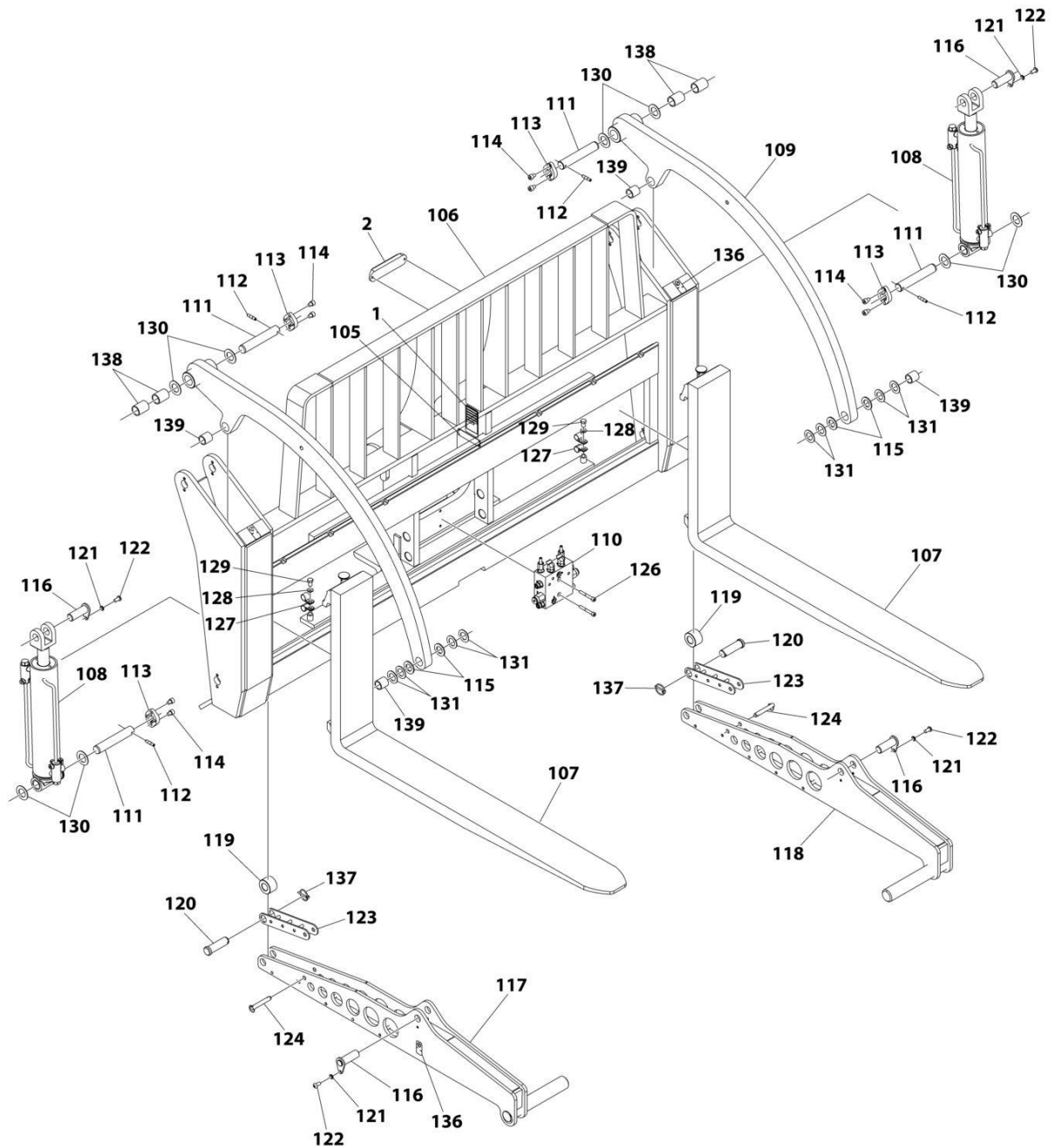
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FIGURE 3-38. PIPE GRAPPLE



ART_1001142247_1

SECTION 3 - ATTACHMENTS



ART_1001142247_2

SECTION 3 - ATTACHMENTS

FIGURE 3-38. PIPE GRAPPLE

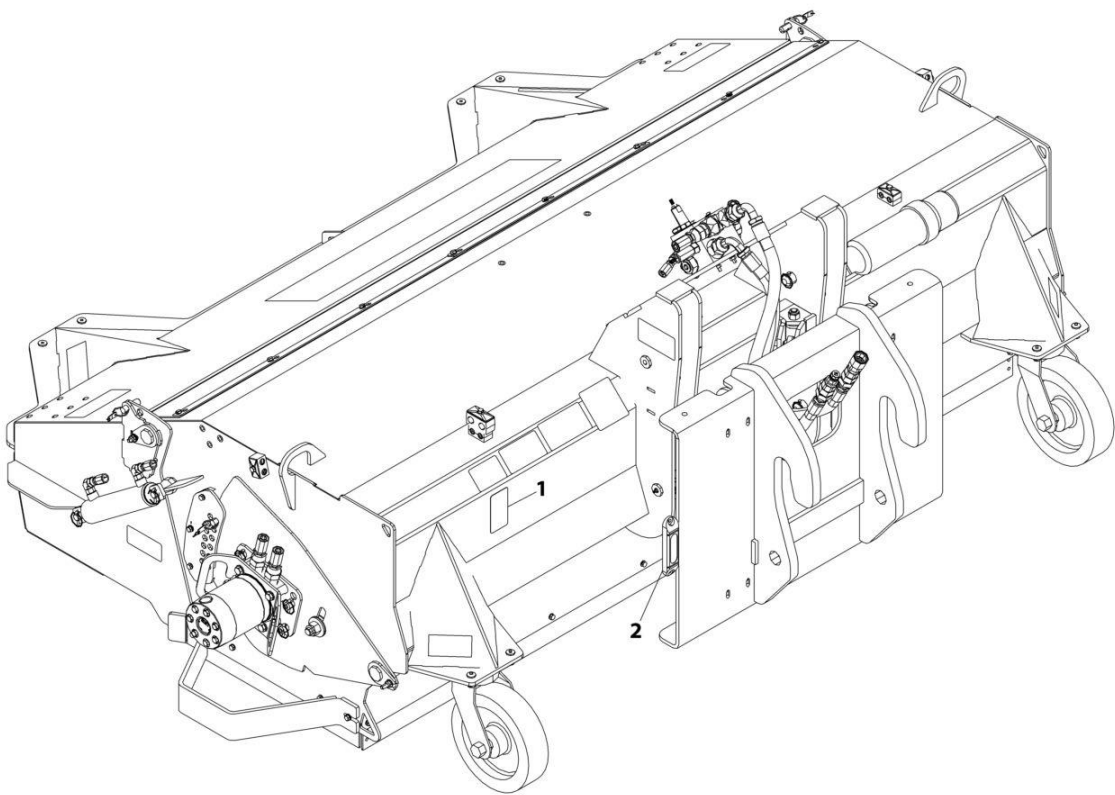
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142247	Ref	PIPE HANDLER ASSEMBLY	G
1	See Note	NSS	JLG Plate (Note: Stamped Part - Not Available for Purchase)	
2	1001227670	1	Tag, RFID	
100	70026585	1	Disconnect & Hose Kit (Boom Front Disconnect) (Includes Items 101, 102, 104, 125, 132-135, 140-143)	
100	70031442	1	Disconnect Kit (Boom Side Disconnect) (Includes Items 102, 104, & 140-143)	
101	70024123	4	Fitting, 90	
102	70026347	2	Hose 20in (Boom Front Disconnect)	
102	70031448	2	Hose 44in (Boom Side Disconnect)	
104	70024550	2	Fitting, 90	
105	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
106	See Note	NSS	Carriage (Note: Purchased Complete Assembly)	
107	70026586	2	Fork	
108	70026587	2	Cylinder, Pipe Handler (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
109	70026588	2	Arm	
110	70026589	1	Valve Assembly (See Separate Breakdown in HYDRAULIC CIRCUITS Section)	
111	70026470	4	Pin	
112	70026471	4	Pin Drive - Lock	
113	70026472	4	Retainer	
114	70026473	8	Capscrew, M10 x 12	
115	70026590	4	Thrust Washer	
116	70026591	4	Pin Weldment	
117	70026592	1	Contact Pad - RH	
118	70026593	1	Contact Pad - LH	
119	70026594	2	Roller	
120	70026595	2	Clevis Pin	
121	70026596	4	Lockwasher, M8	
122	70026597	4	Capscrew, M8 x 16	
123	70026598	2	Retainer	
124	70026599	2	Ring Detent Pin	
125	70023000	4	Fitting	
126	70026600	2	Capscrew, M8 x 60	
127	70026481	4	Hose Clamp	
128	70026482	2	Washer	
129	70022996	2	Capscrew, M10X16	
130	70026476	24	Shim	
131	70026601	8	Shim	
132	70026602	2	Hose	
133	70026603	2	Hose	
134	70026604	2	Hose	
135	70026605	2	Hose	
136	70024538	4	Warning Decal	
137	70026606	2	Lynch Pin, 3/16	
138	70026501	4	Bushing	
139	70026607	4	Bushing	
140	70026608	1	Plug	
141	70026609	1	Cap	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
142	91403414	1	Coupler - Male	
143	91403413	1	Coupler - Female	

SECTION 3 - ATTACHMENTS

FIGURE 3-39. SWEEPER ASSEMBLY



ART_1001202904

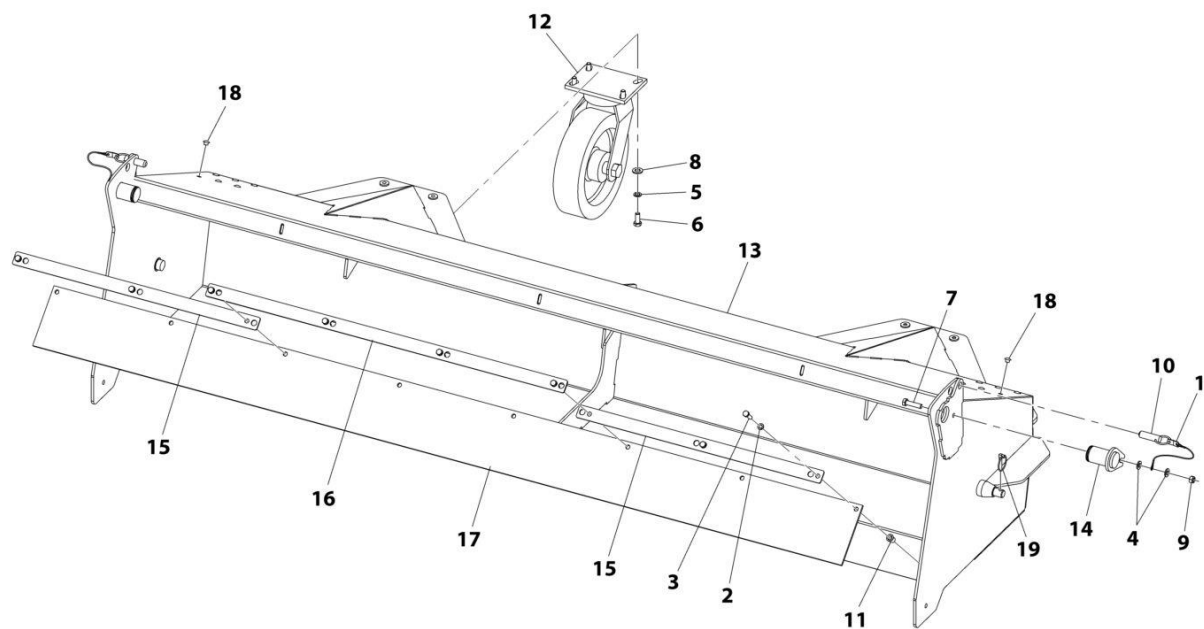
SECTION 3 - ATTACHMENTS

FIGURE 3-39. SWEEPER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1 2	1001202904	Ref	Sweeper Assembly	D
	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
	1001227670	1	Tag, RFID	
		Ref	Sweeper Assembly- Hopper (See Separate Breakdown in this Section)	
		Ref	Sweeper Assembly - Body (See Separate Breakdown in this Section)	
		Ref	Sweeper Assembly - Motor (See Separate Breakdown in this Section)	
		Ref	Sweeper Assembly - Idler (See Separate Breakdown in this Section)	
		Ref	Sweeper Assembly - Core (See Separate Breakdown in this Section)	
		Ref	Sweeper Assembly - Hydraulic Single Motor (See Separate Breakdown in this Section)	

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FIGURE 3-40. SWEEPER - HOPPER



ART_1001202904_1-B

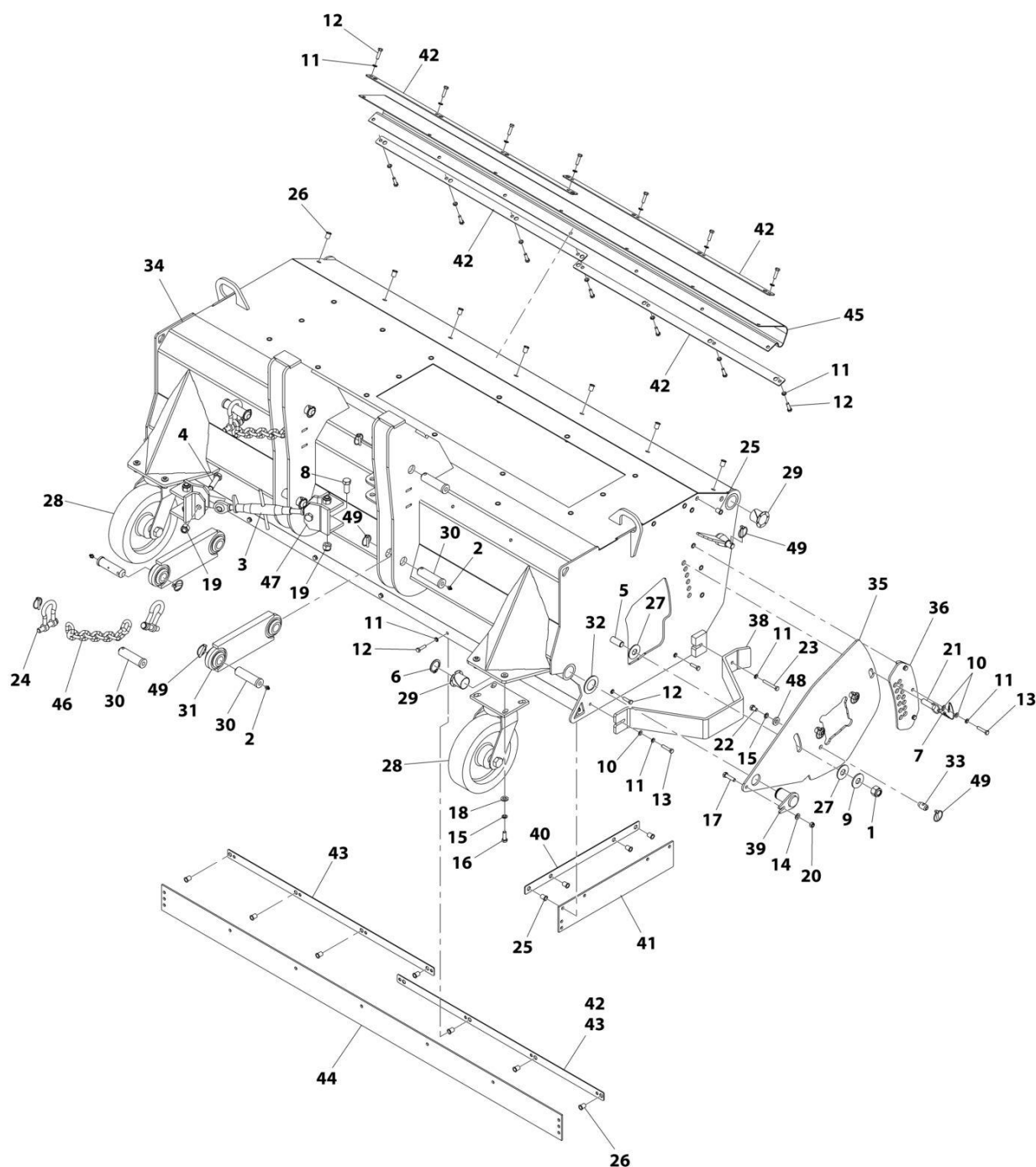
SECTION 3 - ATTACHMENTS

FIGURE 3-40. SWEEPER - HOPPER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202904	Ref	SWEEPER ASSEMBLY - HOPPER	
1	70029725	2	Lanyard	
2	70029734	8	Washer	
3	70029735	8	Screw	
4	70029738	4	Washer	
5	70029739	8	Washer	
6	70029740	8	Screw	
7	70029742	2	Screw	
8	70029743	8	Washer	
9	70029747	2	Nut	
10	70029750	2	Pin	
11	70029756	8	Nut	
12	70029762	2	Assembly, Caster	
13	See Note	NSS	Hopper (Note: Purchase Complete Assembly)	
14	70029777	2	Pin	
15	70029780	2	Plate	
16	70029781	1	Plate	
17	70029785	1	Flap	
18	70029792	12	Plug	
19	70029794	2	Pin, Lynch	

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FIGURE 3-41. SWEEPER - BODY



ART_1001202904_2-B

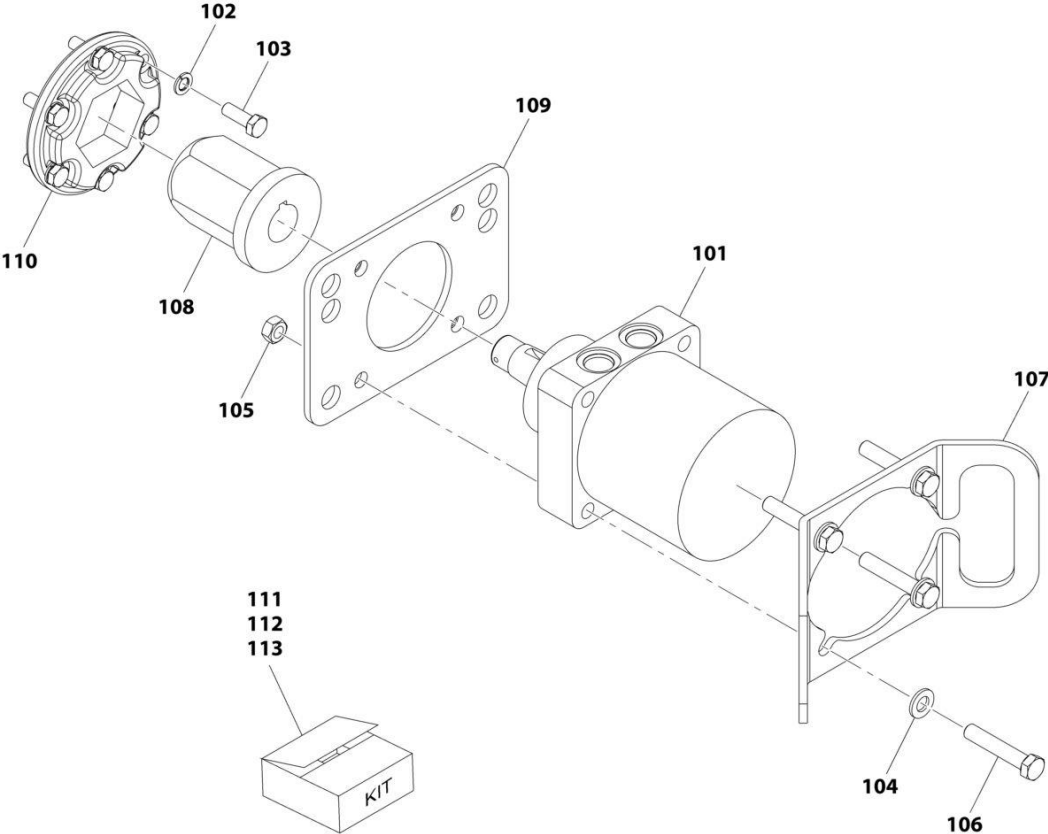
SECTION 3 - ATTACHMENTS

FIGURE 3-41. SWEEPER - BODY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202904	Ref	SWEEPER ASSEMBLY - BODY	
1	70029720	2	Nut	
2	70029721	4	Fitting, Grease	
3	70029722	1	Toplink	
4	70029723	2	Screw	
5	70020004	2	Screw	
6	70029724	2	Ring, Snap	
7	70029725	2	Lanyard	
8	70029726	4	Screw	
9	70029728	2	Washer	
10	70029732	6	Washer	
11	70029734	38	Washer	
12	70029735	32	Screw	
13	70029736	4	Screw	
14	70029738	2	Washer	
15	70029739	14	Washer	
16	70029741	8	Screw	
17	70029742	2	Screw	
18	70029743	8	Washer	
19	70029745	6	Nut	
20	70029747	2	Nut	
21	70029729	2	Pin	
22	70029751	6	Screw	
23	70029752	2	Screw	
24	70029755	4	Shackle	
25	70029756	45	Nut	
26	70029757	25	Nut	
27	70029760	4	Washer	
28	70029762	2	Assembly, Caster	
29	70029764	4	Bearing	
30	70029765	8	Pin	
31	70029766	2	Link	
32	70029767	2	Washer	
33	70029768	6	Stud	
34	See Note	NSS	Body, Sweeper (Note: Purchase Complete Assembly)	
35	70029773	2	Plate	
36	70029774	2	Plate	
37	70029775	2	Plate	
38	70029776	2	Plate	
39	70029777	2	Pin	
40	70029778	2	Plate	
41	70029779	2	Flap	
42	70029780	6	Plate	
43	70029781	3	Plate	
44	70029784	1	Flap	
45	70029786	1	Flap	
46	70029788	2	Chain	
47	70029790	2	Toplink	
48	70029793	6	Washer	
49	70029794	16	Pin, Lynch	

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FIGURE 3-42. SWEEPER - MOTOR



ART_1001202904_3-B

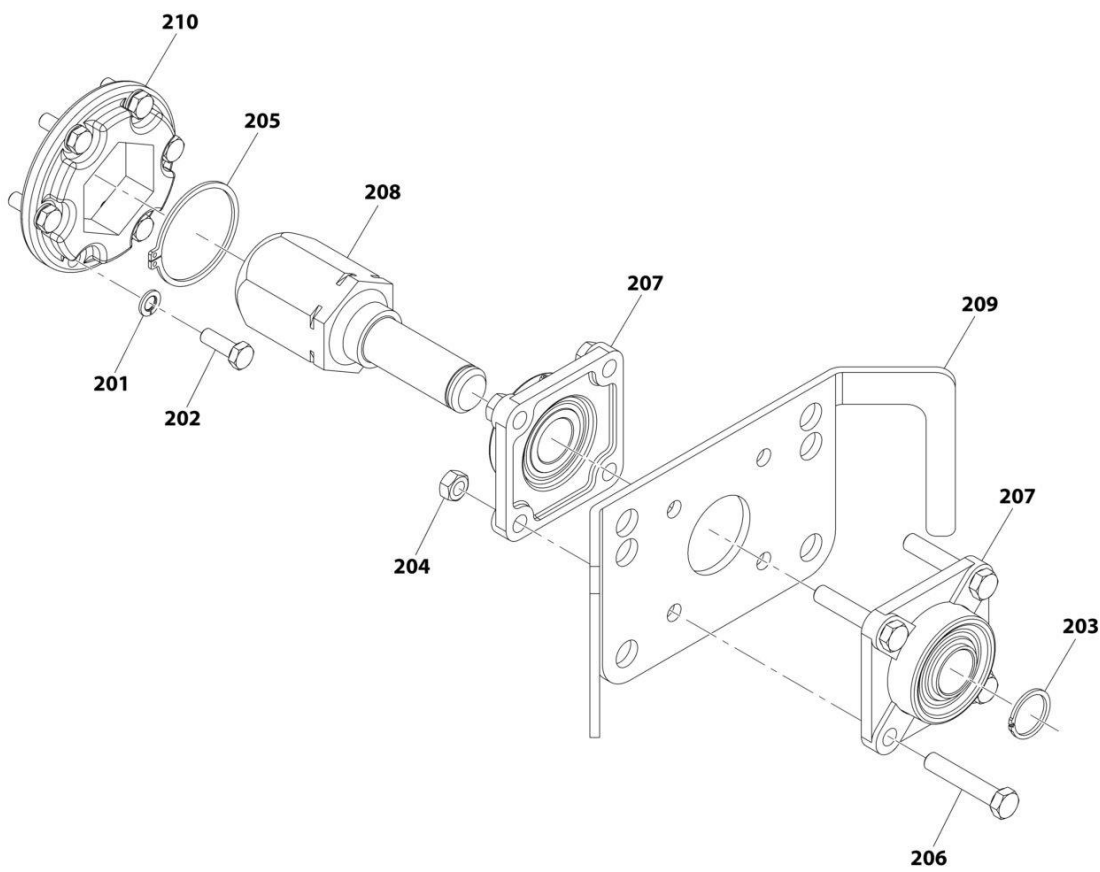
SECTION 3 - ATTACHMENTS

FIGURE 3-42. SWEEPER - MOTOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202904	Ref	SWEEPER ASSEMBLY - MOTOR	
101	70029717	1	Motor	
102	70029739	6	Washer	
103	70029741	6	Screw	
104	70029743	4	Washer	
105	70029746	4	Nut	
106	70029749	4	Screw	
107	70029769	1	Plate	
108	70029771	1	Hub	
109	70029772	1	Plate	
110	70029789	1	Plate	
111	70029719	1	Nut, Motor Shaft Lock	
112	70029718	1	Kit, Seal	
113	70029761	1	Key	

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FIGURE 3-43. SWEEPER - IDLER



ART_1001202904_4-B

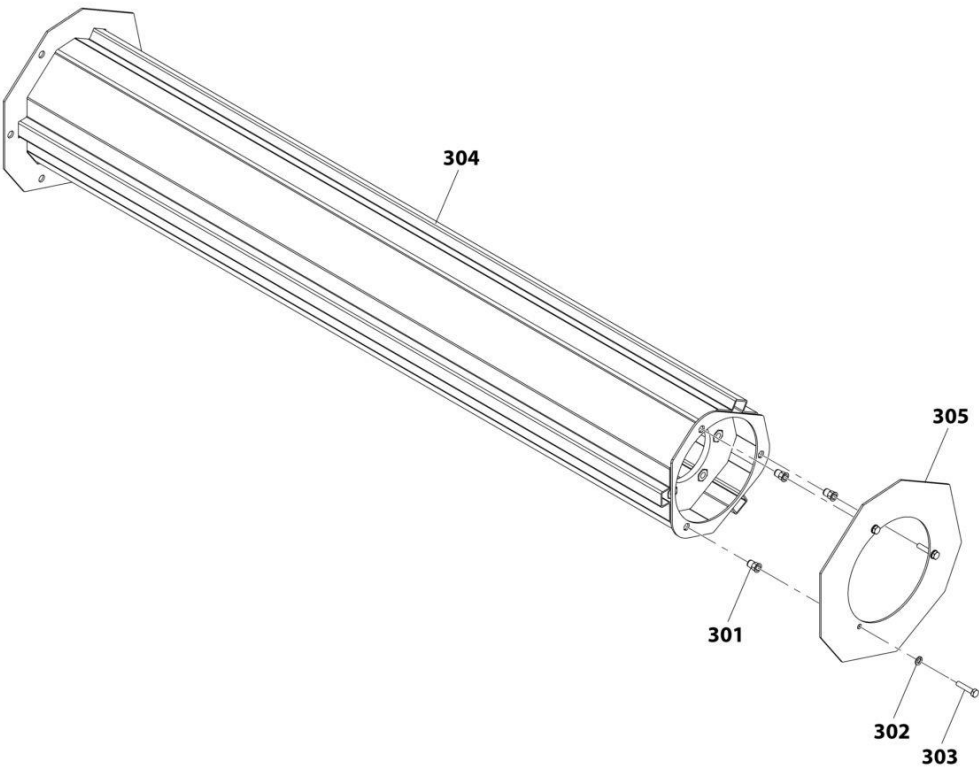
SECTION 3 - ATTACHMENTS

FIGURE 3-43. SWEEPER - IDLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202904	Ref	SWEEPER ASSEMBLY - IDLER	
201	70029739	6	Washer	
202	70029741	6	Screw	
203	70029744	1	Ring, Snap	
204	70029746	4	Nut	
205	70029748	1	Ring, Snap	
206	70029749	4	Screw	
207	70029763	2	Bearing	
208	70029770	1	Hub	
209	70029787	1	Plate	
210	70029789	1	Plate	

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FIGURE 3-44. SWEEPER - CORE



ART_1001202904_5-B

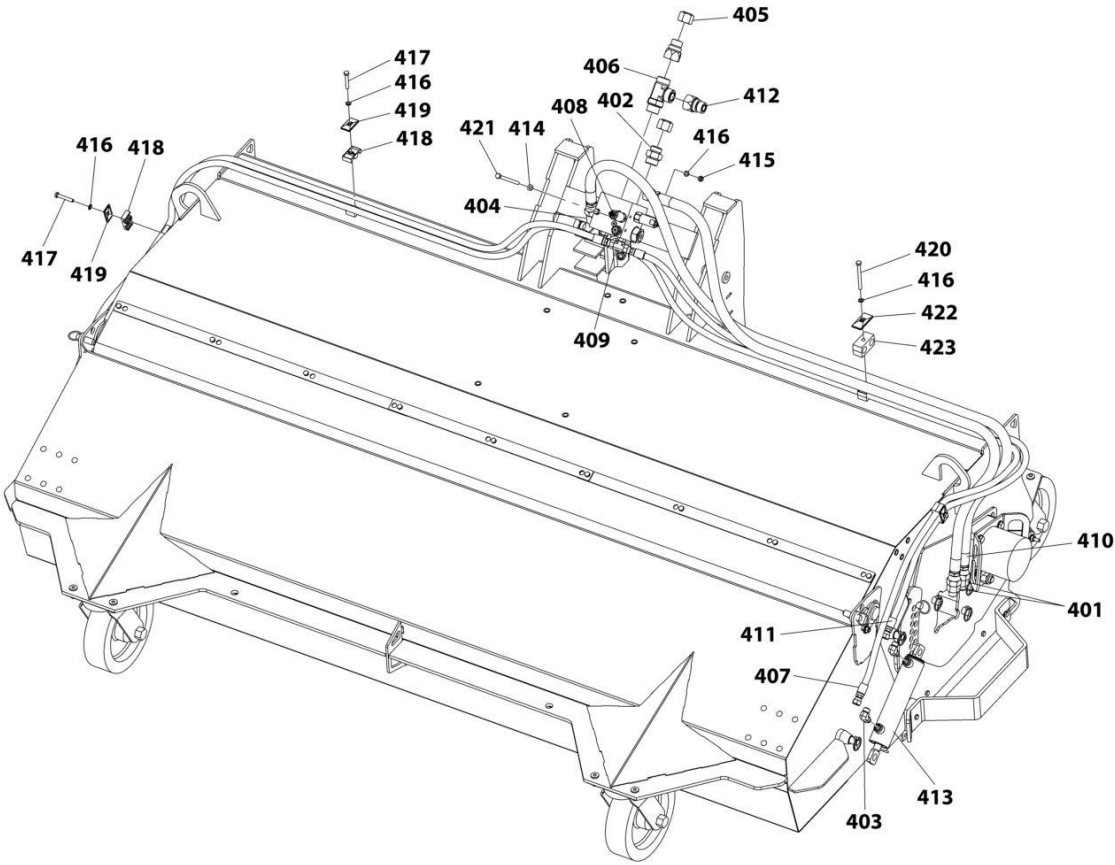
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FIGURE 3-44. SWEEPER - CORE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202904	1	SWEEPER ASSEMBLY - CORE	
301	70029727	3	Nut	
302	70029730	3	Washer	
303	70029731	3	Screw	
304	70029782	1	Core	
305	70029783	1	Plate	

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FIGURE 3-45. SWEEPER - HYDRAULIC LINES



ART_1001202904_6-B

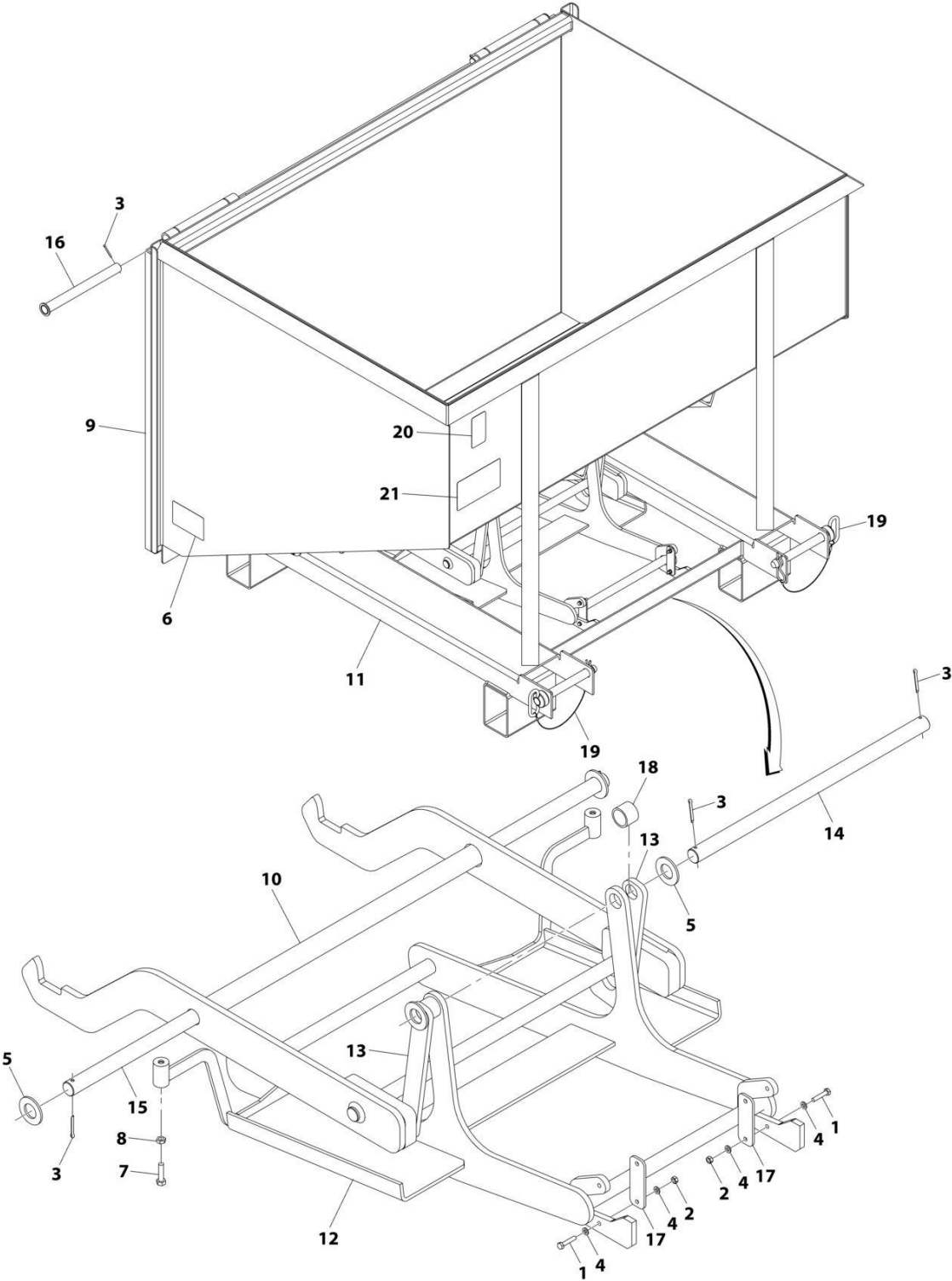
SECTION 3 - ATTACHMENTS

FIGURE 3-45. SWEEPER - HYDRAULIC LINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202904	Ref	SWEEPER ASSEMBLY - HYDRAULICS	
401	70029704	2	Fitting	
402	70029705	1	Fitting	
403	70029706	4	Fitting, 90	
404	70029707	1	Fitting, 90	
405	70029708	2	Cap	
406	70029709	1	Fitting, Tee	
407	70029710	2	Hose	
408	70029711	1	Manifold	
409	70029712	2	Fitting, Tee	
410	70029713	2	Hose	
411	70029714	2	Hose	
412	70029715	2	Fitting	
413	70029716	2	Cylinder	
413	70029791	1	Kit, Seal	
414	70029732	2	Washer	
415	70029733	2	Nut	
416	70029734	6	Washer	
417	70029737	3	Screw	
418	70029753	8	Hose	
419	70029754	3	Cover	
420	70029758	1	Screw	
421	70029759	2	Screw	
422	70029795	1	Cover	
423	70029796	1	Cradle, Hose	

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FIGURE 3-46. TRASH HOPPER (FORK MOUNTED)



ART_1001238566-B

SECTION 3 - ATTACHMENTS

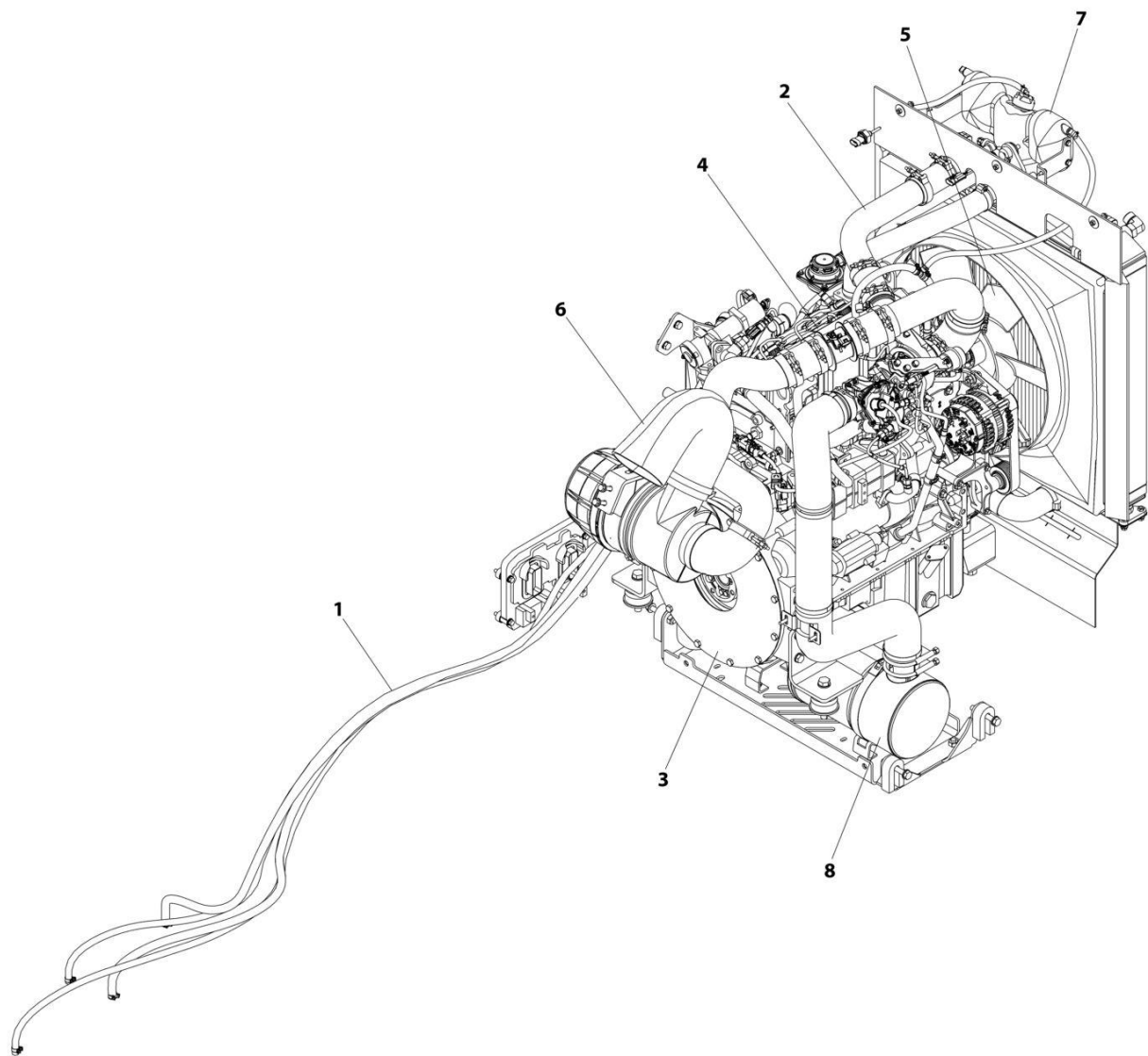
FIGURE 3-46. TRASH HOPPER (FORK MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238566	Ref	FORK MOUNTED TRASH HOPPER	C
1	0700614	4	Bolt M6 x 30	
2	3290601	4	Nut M6 x 1	
3	3391410	6	Pin	
4	4811700	8	Washer M6	
5	5242400	4	Washer M24	
6	1706302	2	Decal, Pinch Point	
7	0641510	2	Bolt 5/16 x 1-1/4	
8	3311502	2	Nut 5/16	
9	1001192711	1	Door Assembly	
10	1001192720	1	Hook Assembly	
11	See Note	NSS	Hopper, Trash (Note: Purchase Complete Assembly)	
12	1001192875	1	Tray Assembly	
13	1001192876	2	Arm, Swing	
14	1001192877	1	Rod, Swing	
15	1001238570	1	Bar	
16	1001193540	2	Pin	
17	1001193729	2	Plate	
18	1001198355	2	Spacer	
19	1001238560	2	Pin	
20	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
21	1001203503	1	Decal, Trash Hopper Operation	

SECTION 4 - ENGINE AND ATTACHING PARTS

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE PACKAGE INSTALLATION (74HP ULS)



ART_1001243880-A

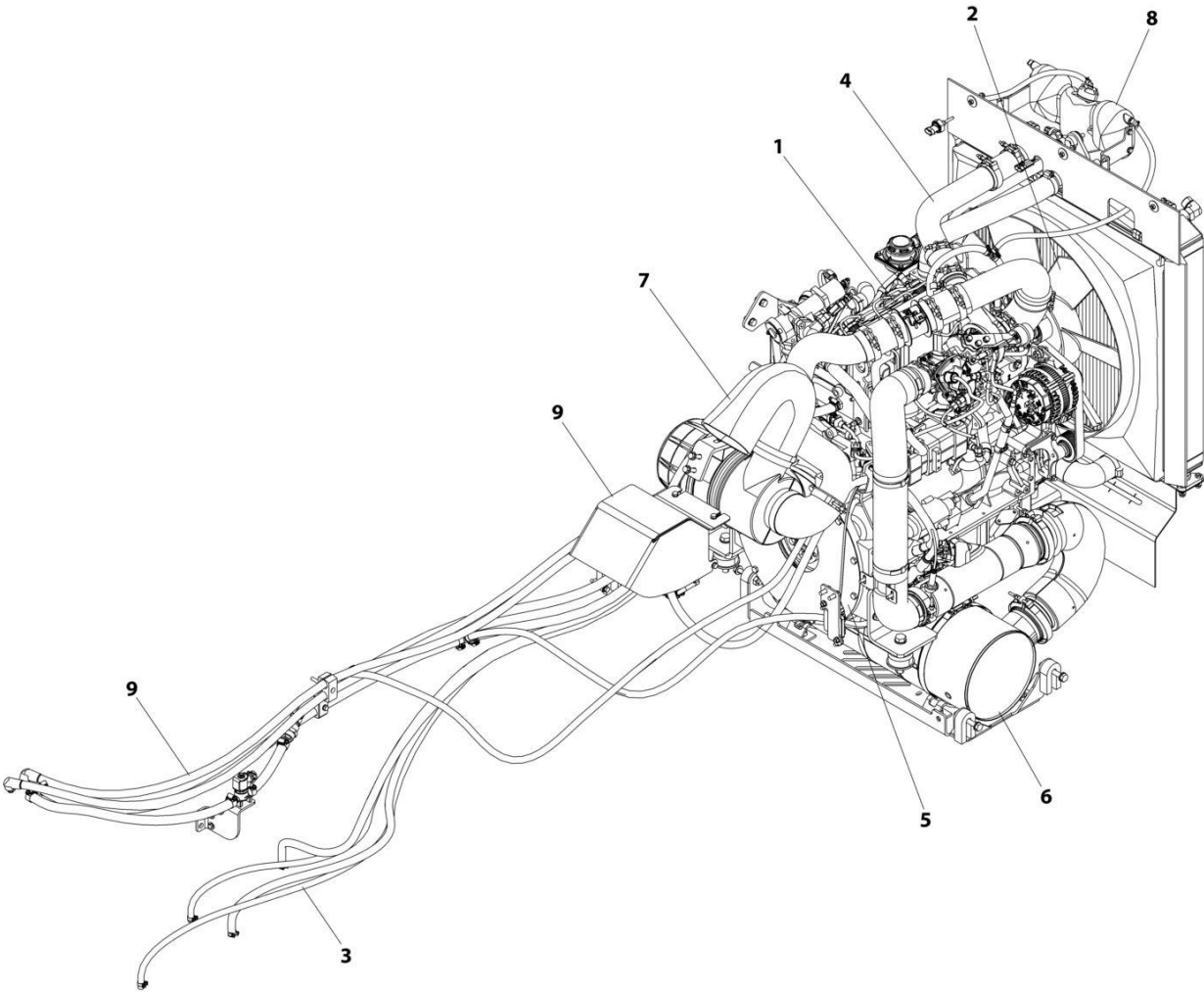
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE PACKAGE INSTALLATION (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001243880	Ref	Engine Package Installation (74HP)	A
	1001165672	Ref	Installation, Fuel Plumbing (ULS) (See Separate Breakdown in this Section)	
2	1001165673	Ref	Installation, Plumbing Cooling (ULS) (See Separate Breakdown in this Section)	
3	1001166229	Ref	Installation, Pump Coupler (See Separate Breakdown in this Section)	
4	1001196124	Ref	Installation, Engine (74HP) (See Separate Breakdown in this Section)	
5	1001196736	Ref	Installation, Fan (74HP) (See Separate Breakdown in this Section)	
6	1001243882	Ref	Installation, Air Cleaner (ULS) (See Separate Breakdown in this Section)	
7	1001243887	Ref	Installation, Cooling (74HP) (See Separate Breakdown in this Section)	
8	1001243888	Ref	Installation, Exhaust (74HP) (See Separate Breakdown in this Section)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE PACKAGE INSTALLATION (130HP ULS)



ART_1001243783-A

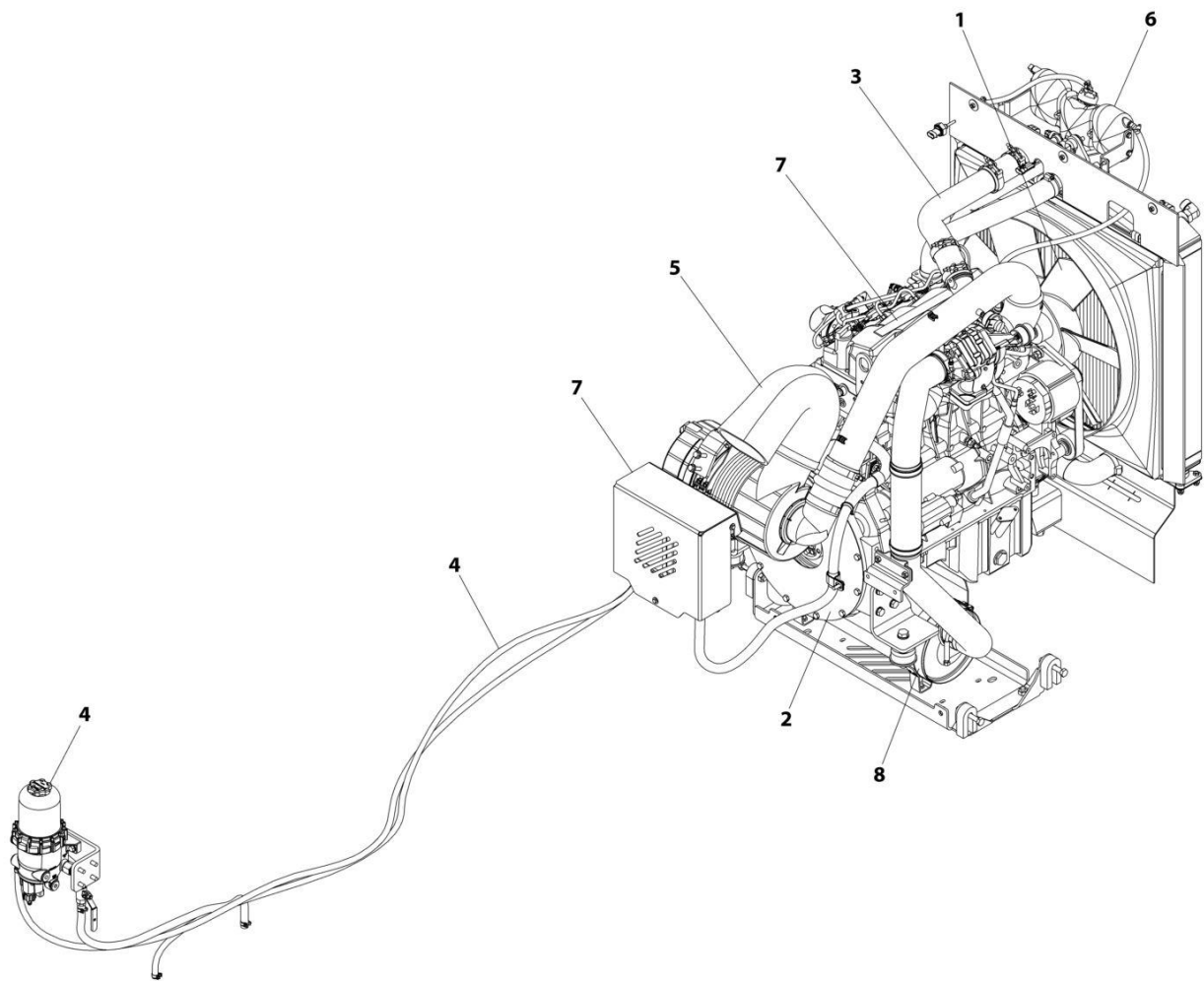
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE PACKAGE INSTALLATION (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001243783	Ref	Engine Package Installation (ULS)	A
	1001160845	Ref	Installation, Engine (ULS) (See Separate Breakdown in this Section)	
2	1001165668	Ref	Installation, Fan (130HP) (See Separate Breakdown in this Section)	
3	1001165672	Ref	Installation, Fuel Plumbing (ULS) (See Separate Breakdown in this Section)	
4	1001165673	Ref	Installation, Plumbing Cooling (ULS) (See Separate Breakdown in this Section)	
5	1001166229	Ref	Installation, Pump Coupler (See Separate Breakdown in this Section)	
6	1001243881	Ref	Installation, After-treatment (ULS) (See Separate Breakdown in this Section)	
7	1001243882	Ref	Installation, Air Cleaner (ULS) (See Separate Breakdown in this Section)	
8	1001243884	Ref	Installation, Cooling (130HP) (See Separate Breakdown in this Section)	
9	1001243885	Ref	Installation, DEF System (ULS) (See Separate Breakdown in this Section)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE PACKAGE INSTALLATION (130HP LS)



ART_1001243879-A

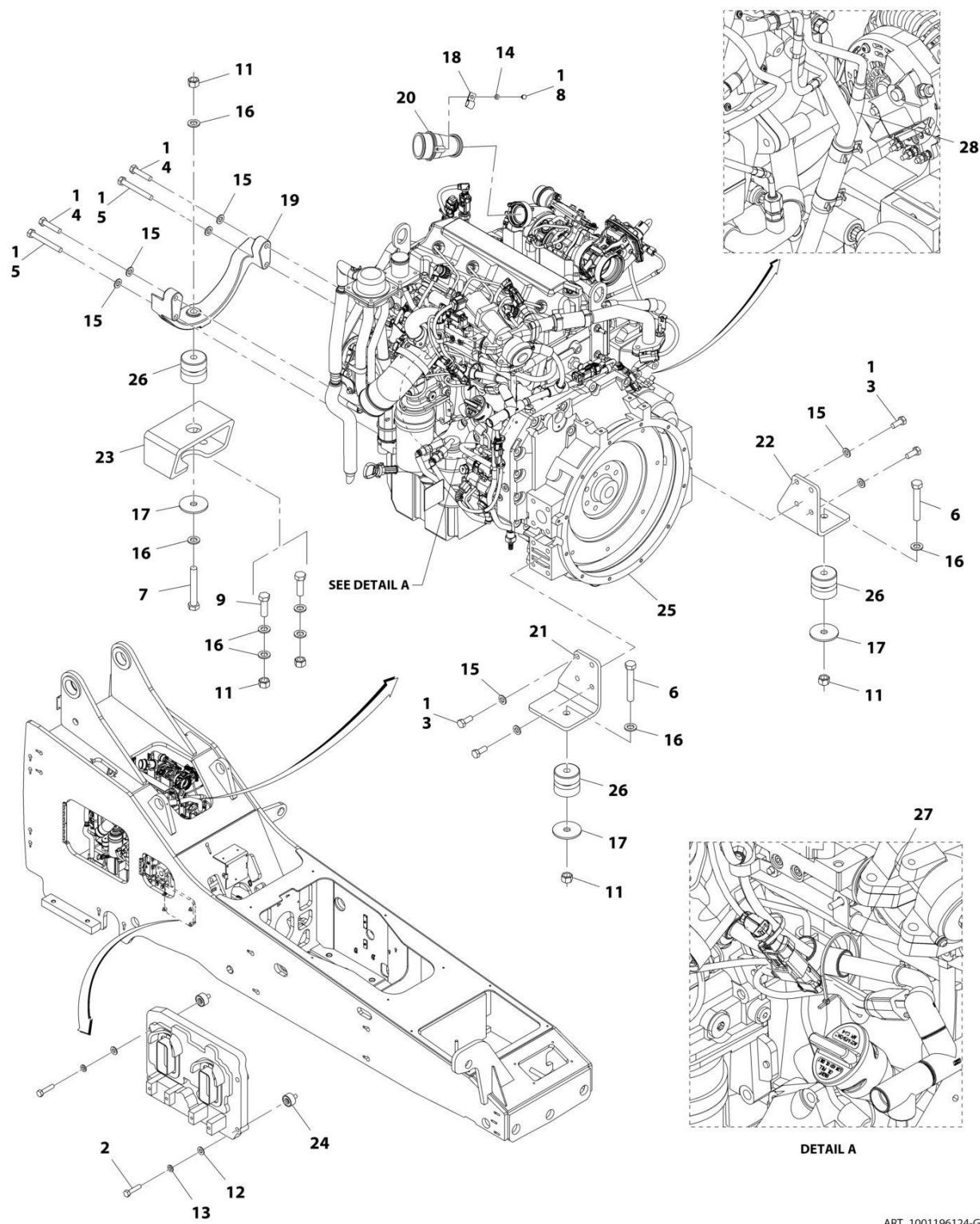
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE PACKAGE INSTALLATION (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001243879	Ref	Engine Package Installation (LS)	A
	1001165668	Ref	Installation, Fan (130HP) (See Separate Breakdown in this Section)	
2	1001166229	Ref	Installation, Pump Coupler (See Separate Breakdown in this Section)	
3	1001185652	Ref	Installation, Plumbing Cooling (LS) (See Separate Breakdown in this Section)	
4	1001186490	Ref	Installation, Fuel Plumbing (LS) (See Separate Breakdown in this Section)	
5	1001243883	Ref	Installation, Air Cleaner (LS) (See Separate Breakdown in this Section)	
6	1001243884	Ref	Installation, Cooling (130HP) (See Separate Breakdown in this Section)	
7	1001243886	Ref	Installation, Engine (LS) (See Separate Breakdown in this Section)	
8	1001243889	Ref	Installation, Exhaust (130HP) (See Separate Breakdown in this Section)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE INSTALLATION (74HP ULS)



ART_1001196124-G

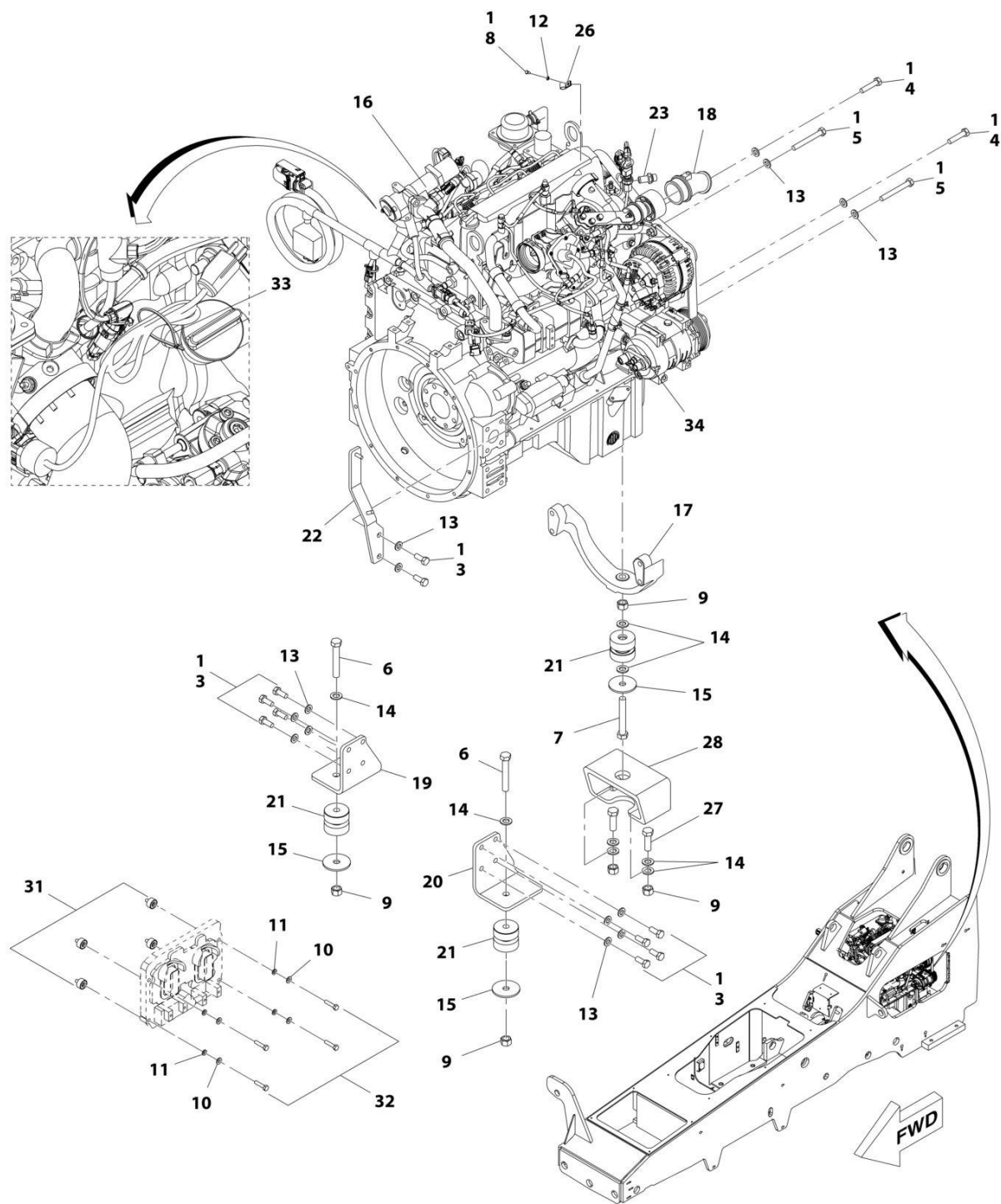
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE INSTALLATION (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196124	Ref	Engine Installation, 74HP (if equipped for ULS)	G
1	0100011	AR	Compound, Locking	
2	0641511	4	Bolt, 5/16-18X1-3/8	
3	0711214	8	Bolt, M12X30	
4	0711219	2	Bolt, M12X55	
5	0711227	2	Bolt, M12X100	
6	0711627	2	Bolt, M16X100	
7	0711628	1	Bolt, M16X110	
8	0760605	1	Bolt, M6X10	
9	0771618	2	Bolt, M16X50	
11	3331615	5	Nut, Lock M16X12	
12	4711500	4	Washer, 5/16	
13	4761500	4	Washer, Lock 5/16	
14	4811700	1	Washer, M6	
15	4812100	12	Washer, M12	
16	4812300	8	Washer, M16	
17	7300435	3	Washer, Rebound	
18	8406112	1	Clip, Tube 5/8	
19	1001160116	1	Bracket, Engine Mount Casting	
20	1001161920	1	Adapter	
21	1001165517	1	Bracket, Engine Mount	
22	1001165518	1	Bracket, Engine Mount	
23	1001180473	1	Bracket, Rear Engine Mount	
24	1001186373	4	Mount, Isolator ECM	
25	1001196665	1	Engine (See Separate Breakdown in this Section)	
26	1001165660	3	Mount, Isolator Engine	
27	4240099	1	Strap, Tie	
28	7125871	1	Conduit 0.5X8	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. ENGINE INSTALLATION (130HP ULS)



ART_1001160845-L

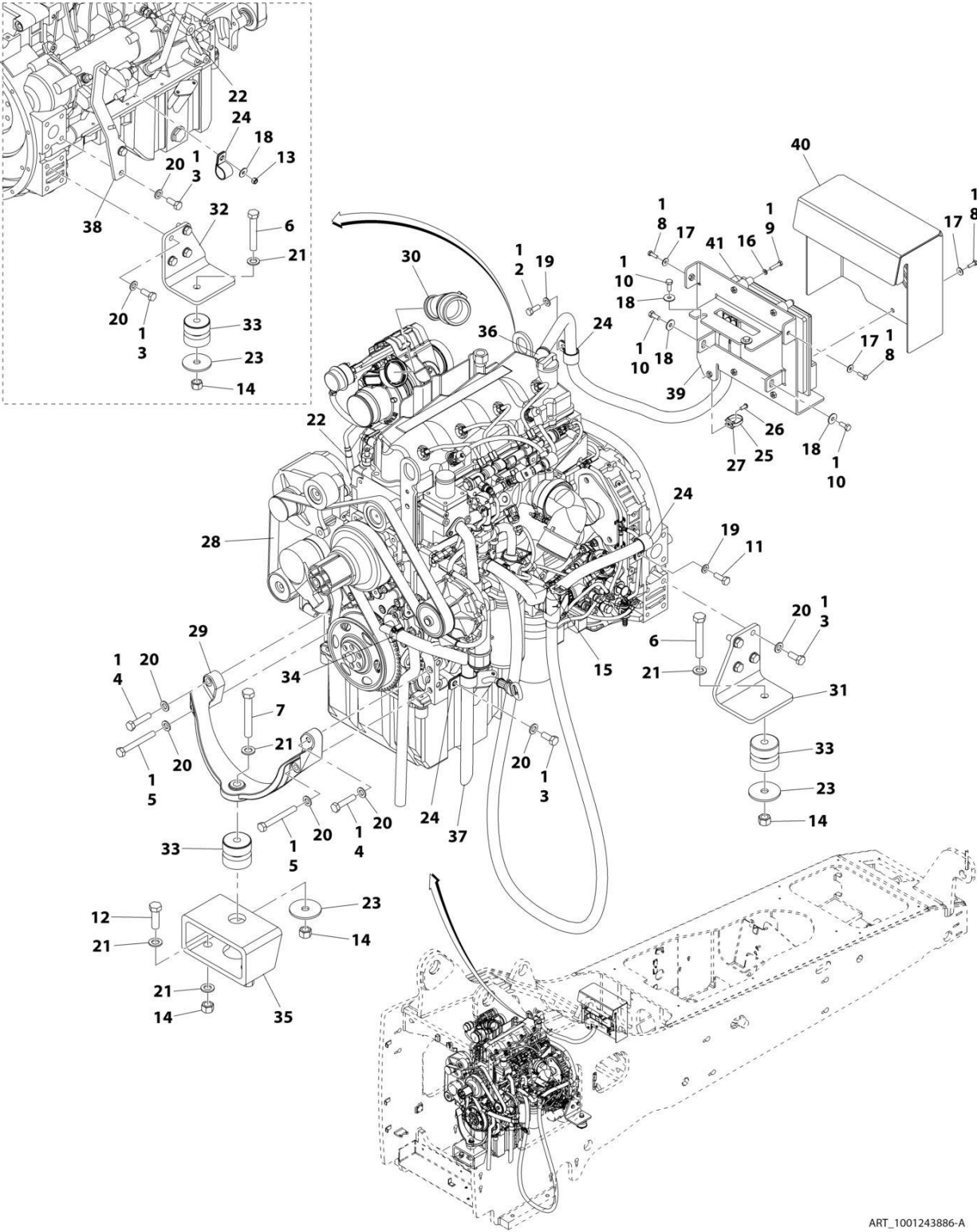
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. ENGINE INSTALLATION (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160845	Ref	Engine Installation, 110HP (if equipped for ULS)	L
1	0100011	AR	Compound, Locking	
3	0711214	10	Bolt, M12X30	
4	0711219	2	Bolt, M12X55	
5	0711227	2	Bolt, M12X100	
6	0711627	2	Bolt, 16-2X100	
7	0711628	1	Bolt, 16-2X110	
8	0760605	1	Bolt, M6X10	
9	3331615	5	Nut, Lock M16X2	
10	4711500	4	Washer, Plain 5/16	
11	4761500	4	Washer, Lock 5/16	
12	4811700	1	Washer, M6	
13	4812100	14	Washer, M12	
14	4812300	8	Washer, M16	
15	7300435	3	Washer, Rebound	
16	1001154511	1	Engine (ULS) (See Separate Breakdown in this Section)	
17	1001160116	1	Bracket, Engine Mount Casting	
18	1001161920	1	Adapter	
19	1001165517	1	Bracket, Engine Mount	
20	1001165518	1	Bracket, Engine Mount	
21	1001165660	3	Mount, Isolator Engine	
22	1001197233	1	Bracket, Hose Support	
23	1001168822	1	Fitting, Hose Barb	
26	8406112	1	Clip, Tube 5/8	
27	0771618	2	Bolt, M16X50	
28	1001180473	1	Bracket, Rear Engine Mount	
31	1001186373	4	Mount, Isolator ECM	
32	0641511	4	Bolt, 5/16-18X1-3/8	
33	4240099	1	Strap, Tie	
34	7125871	1	Conduit, 1/2X8	

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FIGURE 4-6. ENGINE INSTALLATION (130HP LS)



ART_1001243886-A

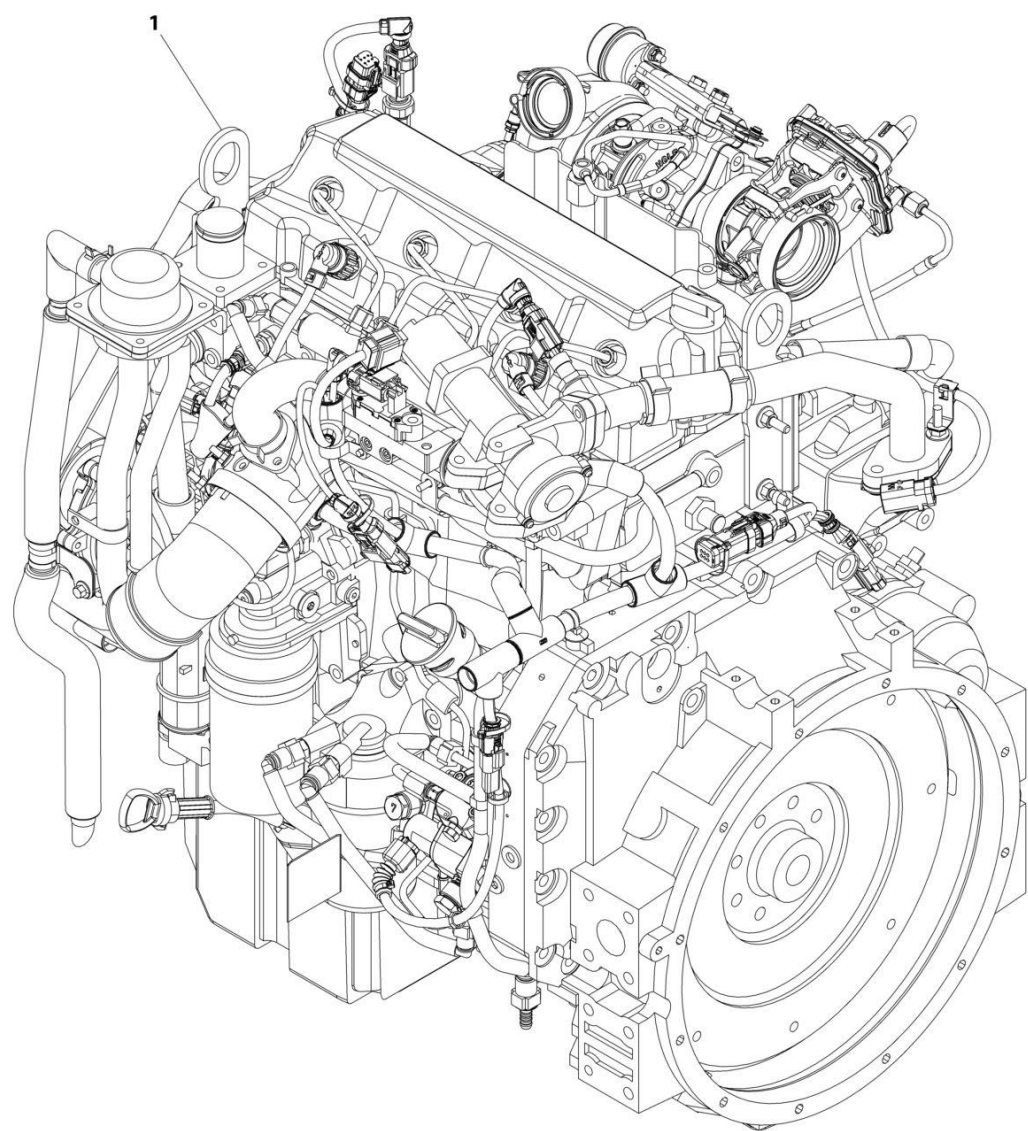
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. ENGINE INSTALLATION (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243886	Ref	Engine Installation (LS)	A
1	0100011	AR	Compound, Locking	
2	0641608	1	Bolt, M8X1	
3	0711214	11	Bolt, M12X30	
4	0711219	2	Bolt, M12X55	
5	0711227	2	Bolt, M12X100	
6	0711627	2	Bolt, M16X100	
7	0711628	1	Bolt, M16X110	
8	0760610	3	Bolt, M6X20	
9	0760614	4	Bolt, M6X30	
10	0760810	4	Bolt, M8X20	
11	0761014	1	Bolt, M10X30	
12	0771618	2	Bolt, M16X50	
13	3290805	1	Nut, Lock M8	
14	3331615	5	Nut	
15	4240099	3	Strap, Cable	
16	4811700	4	Washer, M6	
17	4811702	3	Washer, M6	
18	4811902	5	Washer, M8	
19	4812000	2	Washer, M10	
20	4812100	15	Washer, M12	
21	4812300	7	Washer, M16	
22	7125871	1	Conduit	
23	7300435	3	Washer, Rebound	
24	8406303	4	Clip, Tube 1-3/16	
25	8881800	1	Strap, Cable	
26	88261015	1	Bolt, 1/4X5/8	
27	1001138645	1	Mount, Cable Tie	
28	1001154790	1	Engine (See Separate Breakdown in this Section)	
29	1001160116	1	Bracket, Engine Mount Casting	
30	1001161920	1	Adapter	
31	1001165517	1	Bracket, Engine Mount	
32	1001165518	1	Bracket, Engine Mount	
33	1001165660	3	Mount, Isolator Engine	
34	1001173535	1	Clamp	
35	1001180473	1	Bracket, Rear Engine Mount	
36	1001186718	1	Insulate, Heat Shield Tube	
37	1001192134	1	Hose	
38	1001197233	1	Bracket	
39	1001211688	1	Bracket, ECM Mount	
40	1001211690	1	Bracket, ECM Cover	
41	1001211697	4	Mount, Isolator ECM	

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FIGURE 4-7. ENGINE COMPONENTS (74HP ULS)



ART_1001196665

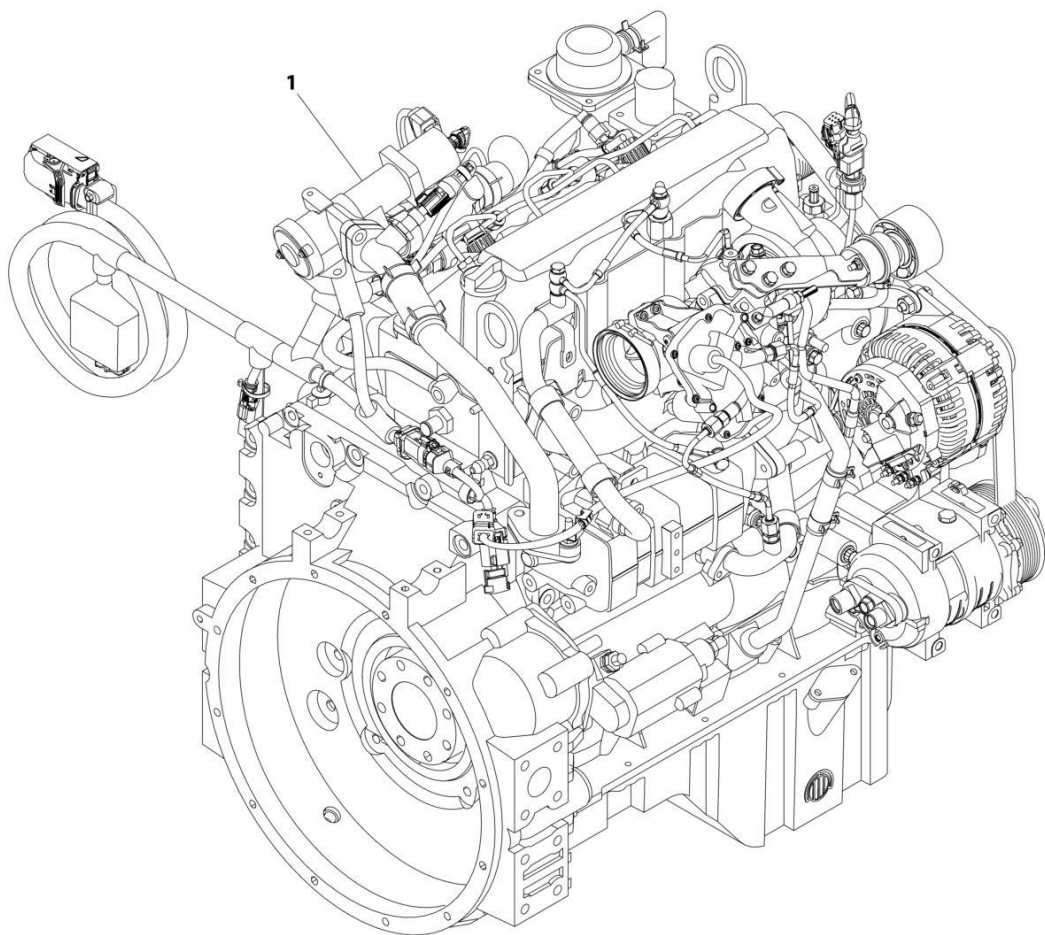
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. ENGINE COMPONENTS (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001196665	Ref	Engine, 74HP (if equipped for ULS)	O
	70026220	1	Assembly, Secondary Fuel Filter (includes filter head, seal and element)	
	70026453	1	Element, Fuel Filter	
	70026221	1	Head, Fuel Filter	
	70026222	1	Assembly, Flywheel Housing	
	70027281	1	Pan, Oil	
	70026224	1	Seal, Oil Pan	
	70026225	1	Plug, Oil Pan	
	70026226	1	Seal, Oil Pan Plug	
	1001128594	1	Starter	
	70026228	1	Filler Cap, Valve Cover	
	70026229	1	Fan Belt, V-Ribbed	
	70026230	1	Support, Fan	
	70026231	1	Pulley, Fan	
	70026232	1	Alternator	
	70028450	1	Assembly, Primary Fuel Filter	
	70026234	1	Element, Fuel Filter	
	70026235	1	Assembly, Dipstick Oil Level	
	70026241	1	Assembly, Fuel Filter Plug	
	70026237	1	Filter, Oil	
	70023933	1	O-Ring, Oil Pressure Switch	
	70041620	2	Ring, Retaining	
	70041616	1	Bolt	
	70041617	1	Bearing, Ball	
	70041619	1	Retainer, Fan Hub	
	1322039	1	Spacer, Fan Pilot	
	1321094	19	Screw	
	70024016	1	Cap, Side Oil Fill	
	70022634	1	Flywheel w/Ring Gear	
	70023736	1	Ring Gear, Flywheel	
	1322040	1	Plug, Flywheel	
	70031148	1	Sensor, Speed	

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FIGURE 4-8. ENGINE COMPONENTS (130HP ULS)



ART_1001154511

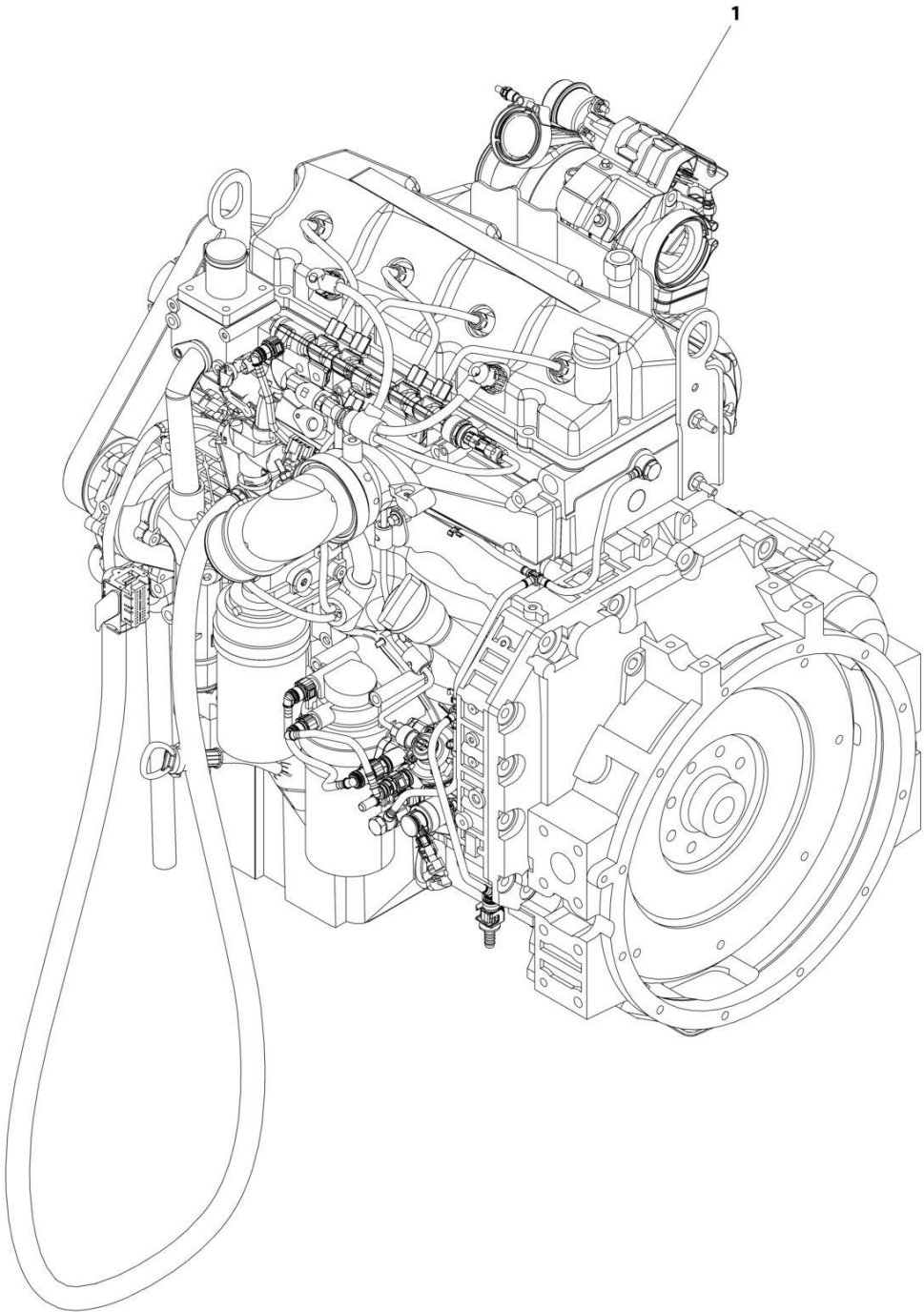
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. ENGINE COMPONENTS (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001154511	Ref	Engine, QSF 3.8L (if equipped for ULS)	W
	70026220	1	Assembly, Secondary Fuel Filter (includes shell, seal and cartridge)	
	70026453	1	Cartridge, Fuel Filter	
	70031350	1	Rail, Fuel	
	70031351	1	Sensor, Fuel Pressure	
	70031352	1	Valve, Fuel Pressure Relief Valve	
	70026223	1	Pan, Oil	
	70026224	1	Seal, Oil Pan	
	70026225	1	Plug, Oil Pan	
	70026226	1	Seal, Oil Pan Plug	
	1001128594	1	Starter	
	70026228	1	Filler Cap, Valve Cover	
	70026229	1	Fan Belt, V-Ribbed	
	70026230	1	Support, Fan	
	70026231	1	Pulley, Fan	
	70026232	1	Alternator	
	70028450	1	Assembly, Primary Fuel Filter, (includes filter head, seal and element)	
	70026235	1	Assembly, Dipstick Oil Level	
	70026236	1	Assembly, Block Heater	
	70026241	1	Assembly, Fuel Filter Plug	
	70026237	1	Filter, Oil	
	70023933	1	O-Ring, Oil Pressure Switch	
	70041620	2	Ring, Retaining	
	70041616	1	Bolt, Fan Drive	
	70041617	1	Bearing, Ball	
	70041619	1	Retainer, Fan Hub	
	1322039	1	Spacer, Fan Pilot	
	1321094	16	Bolt, Oil Pan	
	70024016	1	Cap, Side Oil Fill	
	70022634	1	Flywheel w/Ring Gear	
	70023736	1	Ring Gear, Flywheel	
	1322040	1	Plug, Flywheel	
	70030317	1	Connection, Fuel Actuator	
	70030347	1	Valve, Exhaust Throttle	
	70031380	1	Harness, ECM	

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FIGURE 4-9. ENGINE COMPONENTS (130HP LS)



ART_1001154790

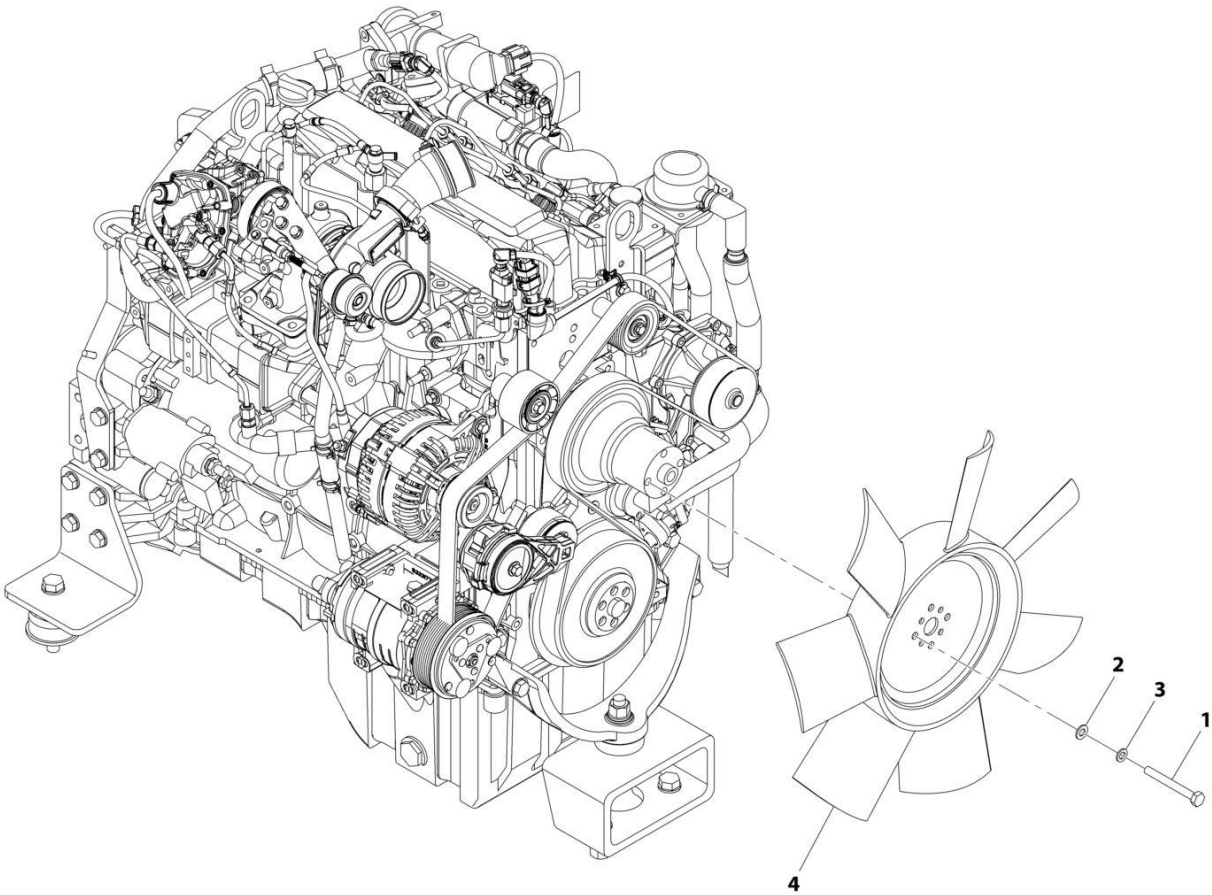
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-9. ENGINE COMPONENTS (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001154790	Ref	3.8L Engine (LS)	L
	70026800	1	Fuel Filter Assembly	
	70026801	1	Fuel Filter Element	
	70026222	1	Assembly, Flywheel Housing	
	70027281	1	Pan, Oil	
	70026224	1	Seal, Oil Pan	
	70026225	1	Plug, Oil Pan	
	70026226	1	Seal, Oil Pan Plug	
	1001128594	1	Starter	
	70026228	1	Filler Cap, Valve Cover	
	70026229	1	Fan Belt, V-Ribbed	
	70026230	1	Support, Fan	
	70026231	1	Pulley, Fan	
	70026232	1	Alternator	
	70026233	1	Assembly, Primary Fuel Filter	
	70026234	1	Element, Fuel Filter	
	70026235	1	Assembly, Dipstick Oil Level	
	70026241	1	Assembly, Fuel Filter Plug	
	70026237	1	Filter, Oil	
	70041620	2	Ring, Retaining	
	70041616	1	Bolt	
	70041617	1	Bearing, Ball	
	70041619	1	Retainer, Fan Hub	
	1322039	1	Spacer, Fan Pilot	
	1321094	17	Screw	
	70024016	1	Cap, Side Oil Fill	
	70022634	1	Flywheel w/Ring Gear	
	70023736	1	Ring Gear, Flywheel	
	1322040	1	Plug, Flywheel	

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FIGURE 4-10. FAN INSTALLATIOJN (74HP)



ART_1001196736-C

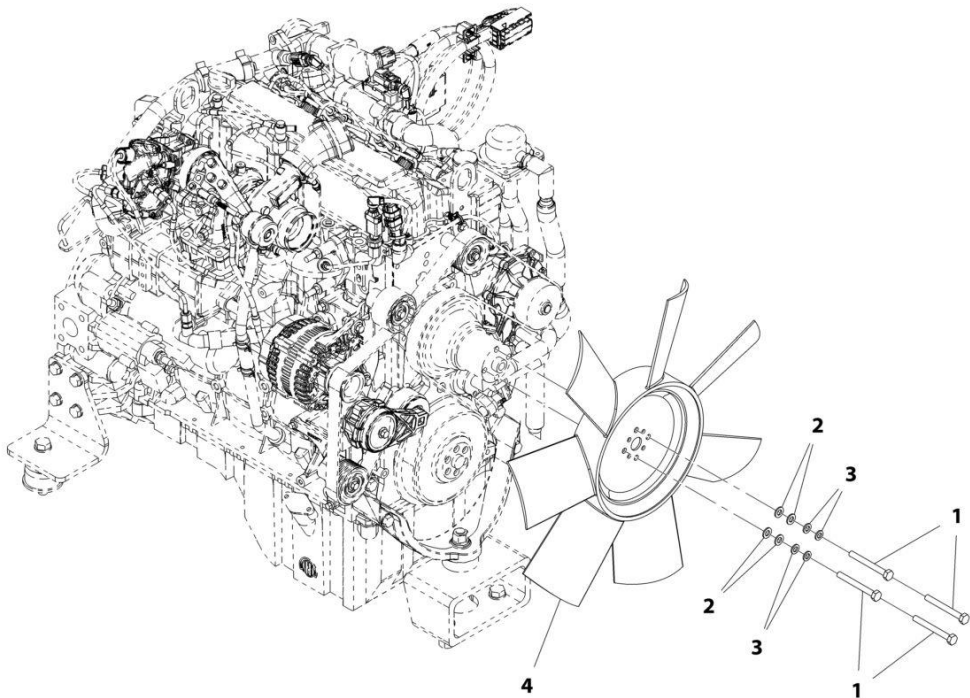
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-10. FAN INSTALLATIOJN (74HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196736	Ref	Fan Installation, 74HP	C
1	0701026	4	Bolt, M10X90	
2	4812000	4	Washer, M10	
3	4832000	4	Washer, Lock M10	
4	1001210351	1	Fan	

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FIGURE 4-11. FAN INSTALLATION (130HP)



ART_1001165668-B

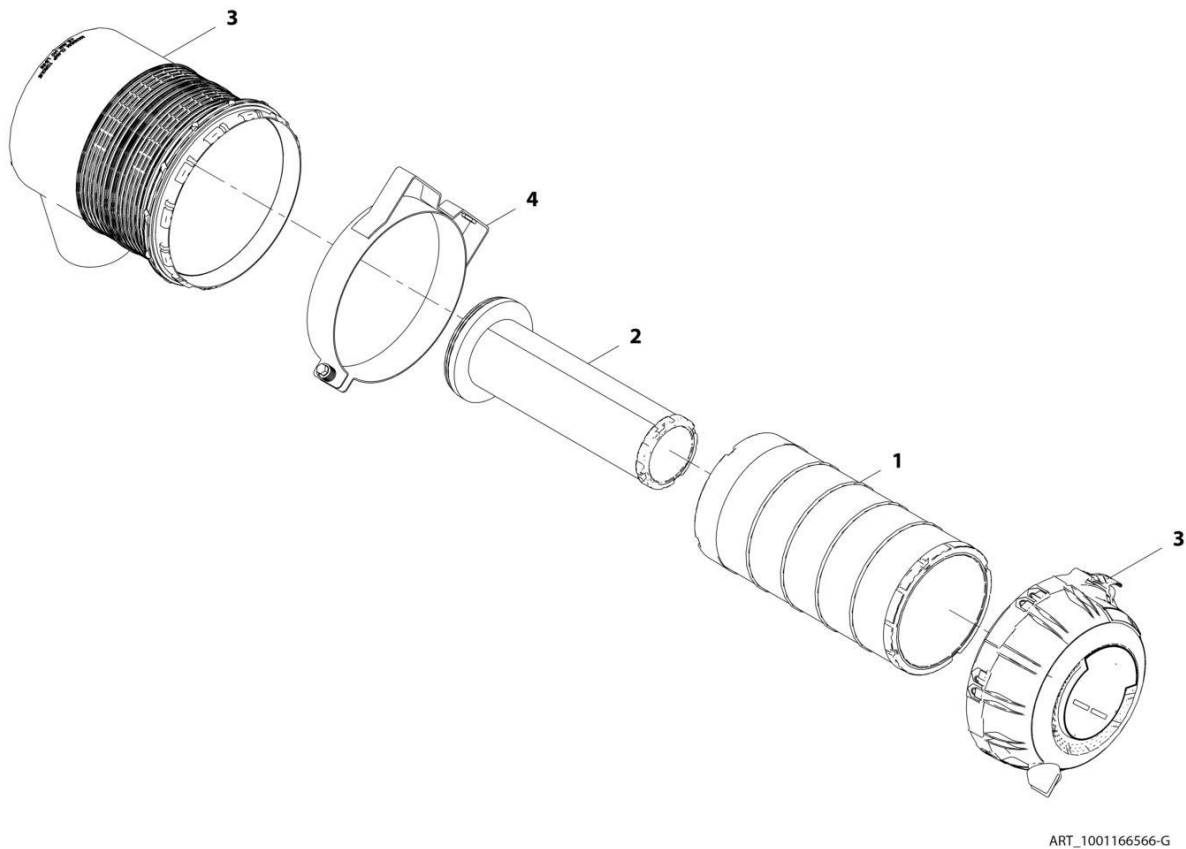
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-11. FAN INSTALLATIOJN (130HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165668	Ref	Fan Installation, 85HP	B
1	0701026	4	Bolt, M10X90	
2	4812000	4	Washer, M10	
3	4832000	4	Washer, Lock M10	
4	1001174822	1	Fan	

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FIGURE 4-12. AIR CLEANER ASSEMBLY (74HP ULS)



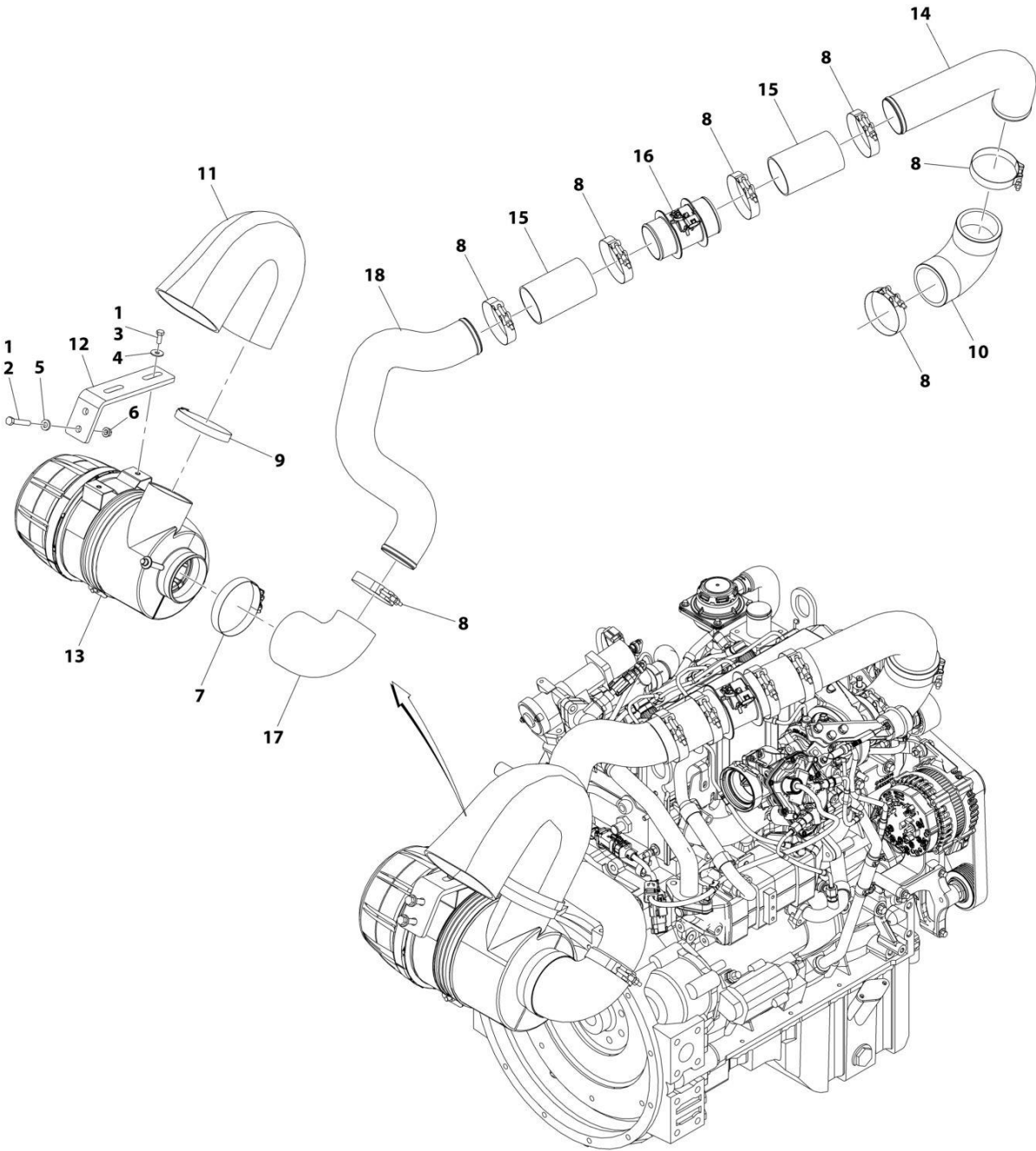
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-12. AIR CLEANER ASSEMBLY (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166566	Ref	Air Cleaner Assembly (74.4KW)	G
1	70025852	1	Filter, Air Cylindrical Primary	
2	70025853	1	Filter, Air Cylindrical Secondary	
3	70026393	1	Cover, Air Cleaner	
4	70026394	1	Bracket, Mounting Band	

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FIGURE 4-13. AIR CLEANER ASSEMBLY (130HP ULS)



ART_1001243882-C

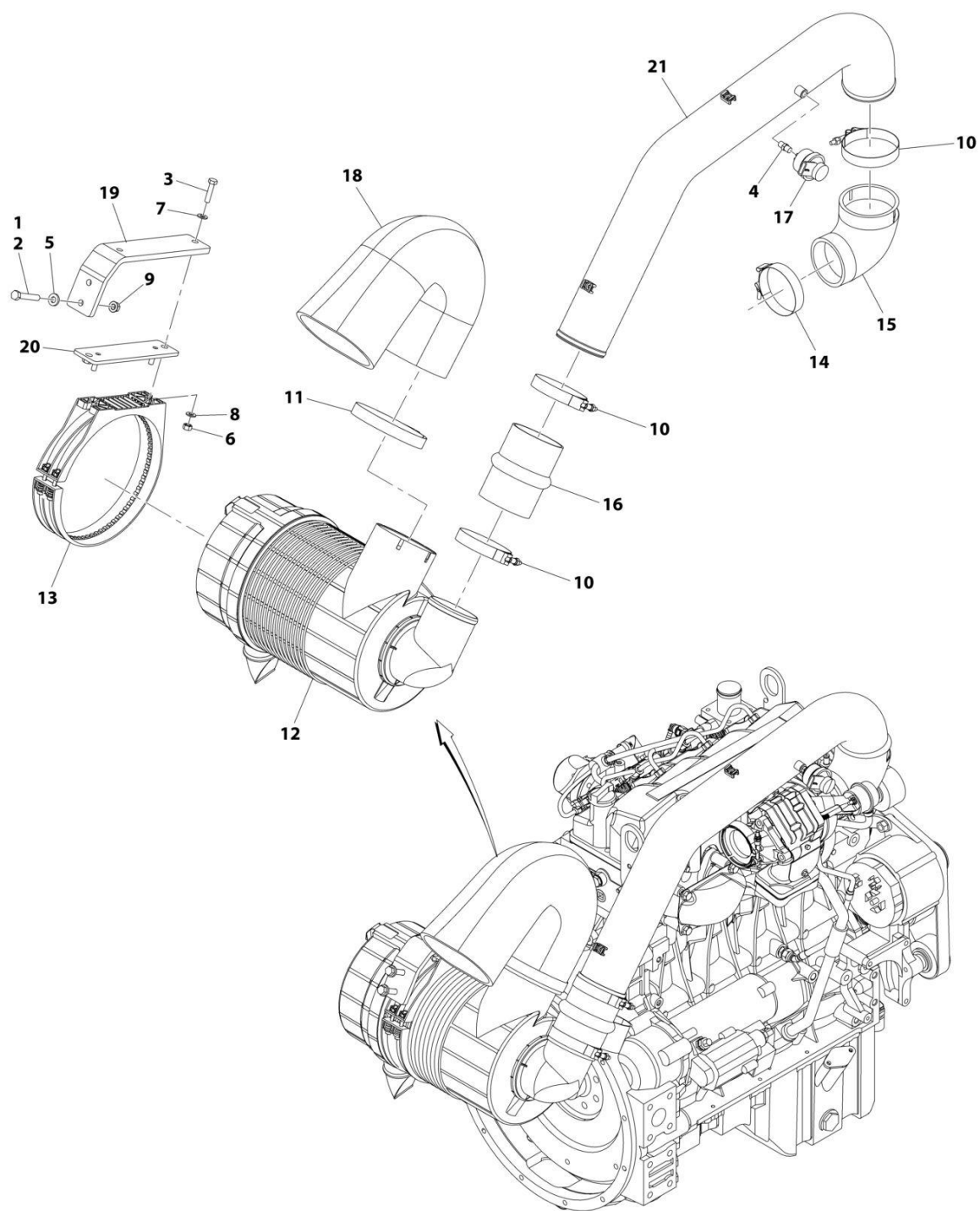
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-13. AIR CLEANER ASSEMBLY (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243882	Ref	Air Cleaner Installation (ULS)	C
1	0100011	AR	Compound, Locking	
2	0641618	2	Bolt, 3/8X2-1/4	
3	0760810	2	Bolt, M8X20	
4	4811902	2	Washer, M8	
5	4891600	2	Washer, 3/8	
6	8310522	2	Nut, Flange 3/8-16	
7	8405404	1	Clamp, T-Bolt	
8	8410007	7	Clamp, T-Bolt	
9	10719267	1	Clamp, Hose	
10	1001120083	1	Hose, Air Intake	
11	1001165818	1	Hose, Air Intake	
12	1001166238	1	Bracket, Air Filter	
13	1001166566	1	Assembly, Air Cleaner (See Breakdown Breakdown in this Section)	
14	1001168052	1	Pipe, Air Intake	
15	1001168053	2	Hose, Sleeve	
16	1001169077	1	Sensor, PRS Temperature	
17	1001201831	1	Hose, Air Intake	
18	1001242986	1	Pipe, Air Intake	

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FIGURE 4-14. AIR CLEANER ASSEMBLY (130HP LS)



ART_1001243883-A

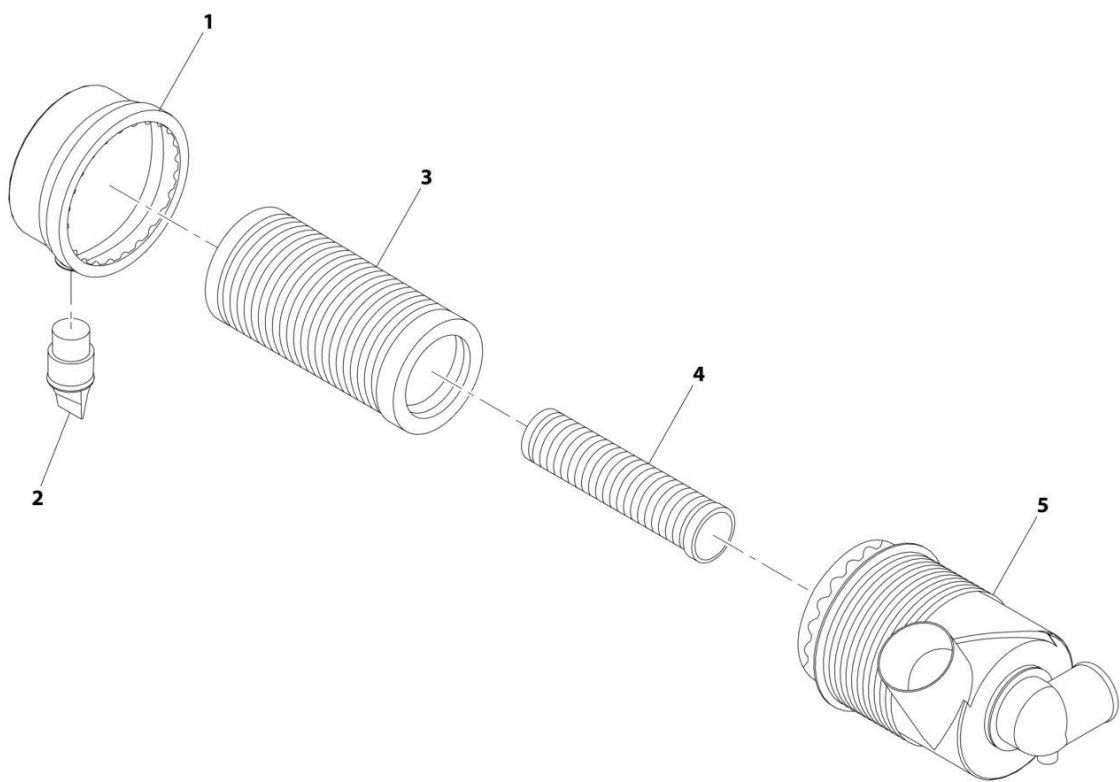
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FIGURE 4-14. AIR CLEANER ASSEMBLY (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243883	Ref	Air Cleaner Installation (LS)	A
1	0100011	AR	Compound, Locking	
2	0641618	2	Bolt, 3/8X2-1/4	
3	0760815	2	Bolt, M8X15	
4	2180798	1	Fitting	
5	4891600	2	Washer, 3/8	
6	8305043	2	Nut, M8X1.25	
7	8307106	2	Washer, Plain 5/16	
8	8307222	2	Washer, Plain M8	
9	8310522	2	Nut, Flange 3/8-16	
10	8405307	3	Clamp, T-Bolt	
11	8410021	1	Clamp, T-Bolt	
12	10268515	1	Assembly, Air Cleaner (See Separate Breakdown in this Section)	
13	10268516	1	Band, Mounting	
14	90028631	1	Clamp, T-Bolt	
15	91083129	1	Elbow, Reducer	
16	91293003	1	Hose, Hump Reducer	
17	1001166715	1	Restriction, Indicator	
18	1001190005	1	Hose, Air Intake	
19	1001190007	1	Bracket, Air Filter	
20	1001190183	1	Bracket, Air Filter	
21	1001212670	1	Pipe, Air Intake	

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FIGURE 4-15. AIR CLEANER ASSEMBLY (130HP LS)



ART_10268515-D

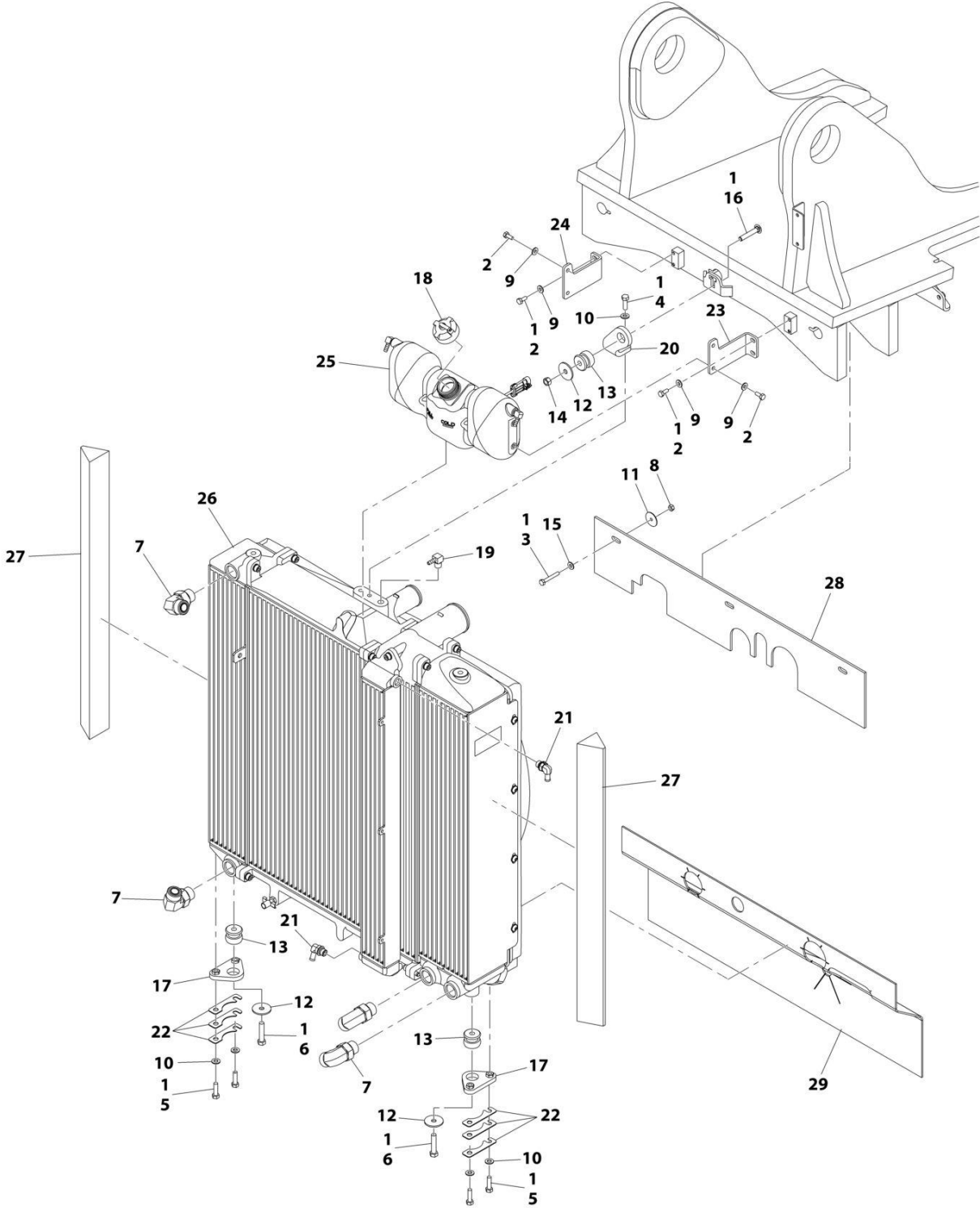
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FIGURE 4-15. AIR CLEANER ASSEMBLY (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	10268515	Ref	Air Cleaner Assembly (if equipped for LS)	D
1	91364023	1	Cover Assembly	
2	80373094	1	Vacuator Valve	
3	1101312	1	Primary Filter Element	
4	1101313	1	Secondary Filter Element	
5	See Note	NSS	Air Cleaner Body (Note; Purchase Complete Assembly)	

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FIGURE 4-16. COOLING INSTALLATION (74HP)



ART_1001243887-A

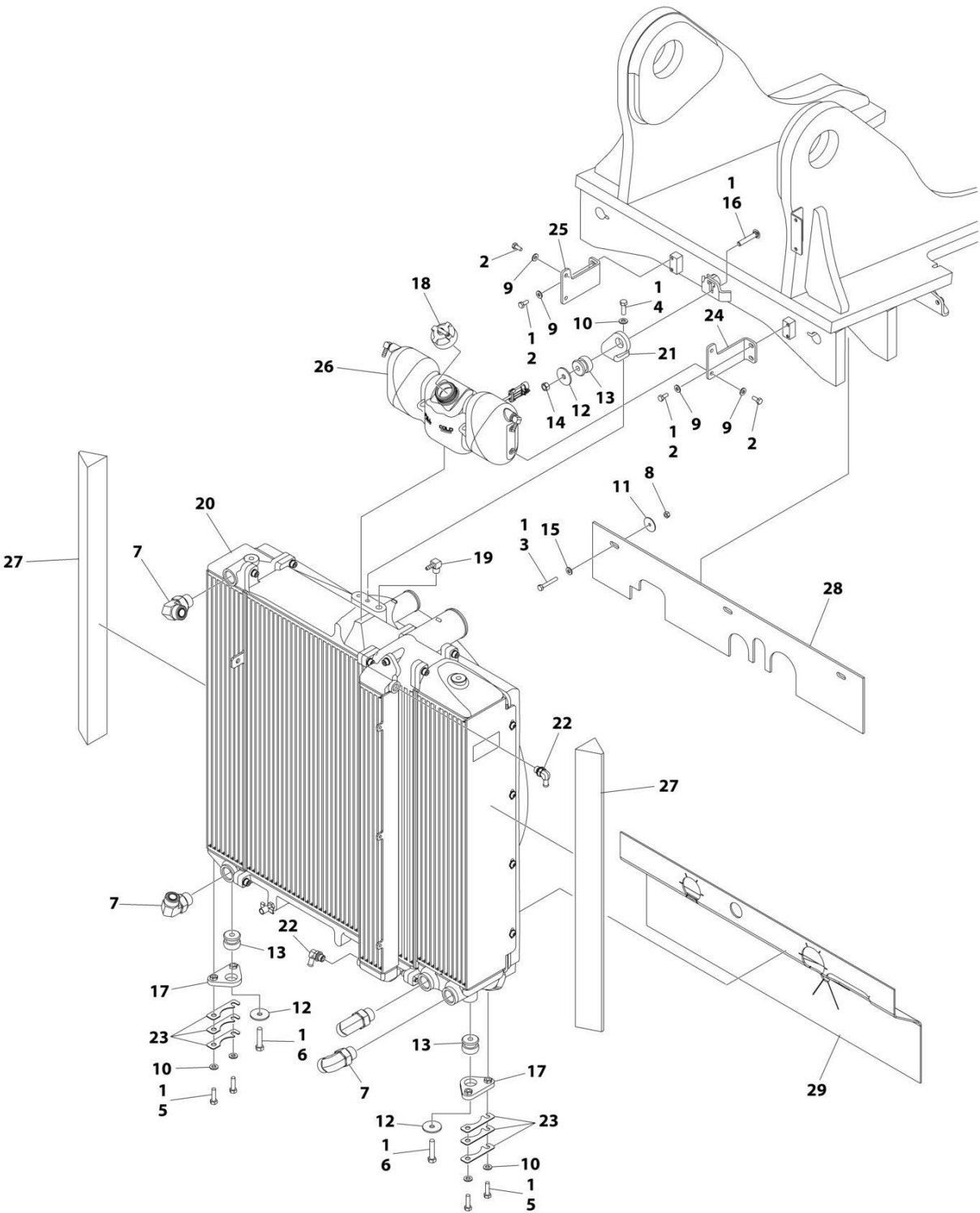
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FIGURE 4-16. COOLING INSTALLATION (74HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243887	Ref	Cooling Installation (74HP)	A
1	0100011	AR	Compound, Locking	
2	0641405	8	Bolt, 1/4X5/8	
3	0641414	3	Bolt, 1/4X1-3/4	
4	0641508	2	Bolt, 5/16X1	
5	0641509	4	Bolt, 5/16X1-1/8	
6	0641614	2	Bolt, 3/8X1-3/4	
7	2131212	4	Adapter, 90	
8	3311401	3	Nut, 1/4	
9	4711400	8	Washer, 1/4	
10	4711500	6	Washer, 5/16	
11	4740362	3	Washer, Fender 1/4	
12	7057141	3	Washer, Flat	
13	8278020	3	Mount, Rubber Isolator	
14	8305008	1	Nut, 3/8	
15	8307109	3	Washer, 1/4	
16	8310281	1	Bolt, Carriage 3/8X2-1/4	
17	1001120869	2	Bracket, Cooler Mount Lower	
18	1001128341	1	Cap, Deaeration Tank	
19	1001134488	1	Fitting, Barbed 90	
20	1001169059	1	Mount, Cooler Bracket	
21	1001178776	2	Fitting, Hose Barb 90	
22	1001179845	6	Shim	
23	1001181584	1	Bracket, LH Tank	
24	1001181585	1	Bracket, RH Tank	
25	1001182255	1	Tank, Deaeration	
25	1001245478	1	Sensor, Coolant Level	
26	1001197475	1	Assembly, Radiator (See Separate Breakdown in this Section)	
27	1001244608	2	Seal, Foam	
28	1001244616	1	Panel, Air Dam Upper	
29	1001244617	1	Panel, Air Dam Lower	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-17. COOLING INSTALLATION (130HP)



ART_1001243884_C

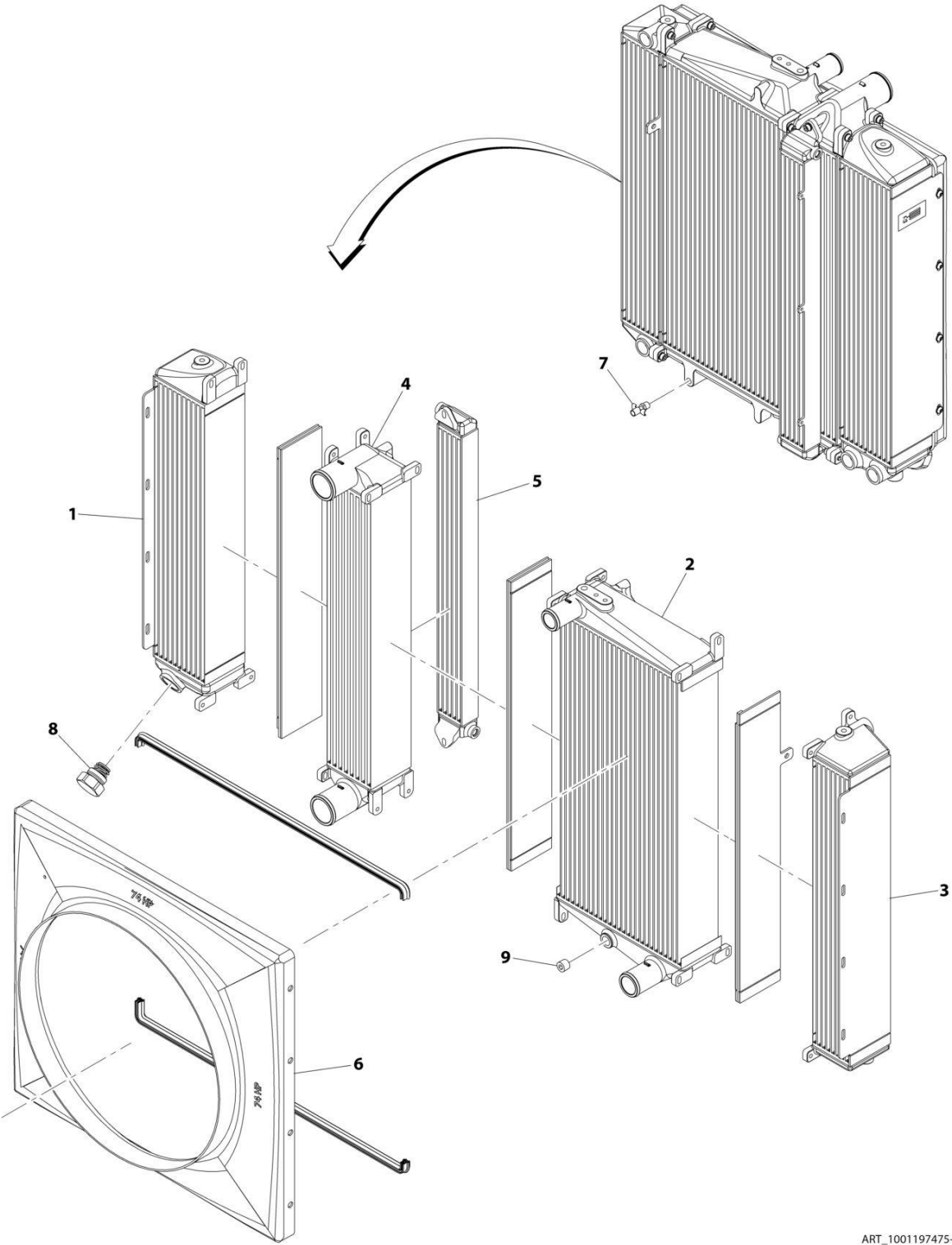
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-17. COOLING INSTALLATION (130HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243884	Ref	Cooling Installation (130HP)	C
1	0100011	AR	Compound, Locking	
2	0641405	8	Bolt, 1/4X5/8	
3	0641414	3	Bolt, 1/4X1-3/4	
4	0641508	2	Bolt, 5/16X1	
5	0641510	4	Bolt, 5/16x 1-1/4	
6	0641614	2	Bolt, 3/8X1-3/4	
7	2131212	4	Adapter, 90	
8	3311401	3	Nut, 1/4	
9	4711400	8	Washer, 1/4	
10	4711500	6	Washer, 5/16	
11	4740362	3	Washer, Fender 1/4	
12	7057141	3	Washer, Flat	
13	8278020	3	Mount, Rubber Isolator	
14	8305008	1	Nut, 3/8	
15	8307109	3	Washer, 1/4	
16	8310281	1	Bolt, Carriage 3/8X2-1/4	
17	1001120869	2	Bracket, Cooler Mount Lower	
18	1001128341	1	Cap, Deaeration Tank	
19	1001134488	1	Fitting, Barbed 90	
20	1001168478	1	Assembly, Radiator (See Separate Breakdown in this Section)	
21	1001169059	1	Mount, Cooler Bracket	
22	1001178776	2	Fitting, Hose Barb 90	
23	1001179845	6	Shim	
24	1001181584	1	Bracket, LH Tank	
25	1001181585	1	Bracket, RH Tank	
26	1001182255	1	Tank, Deaeration	
26	1001245478	1	Sensor, Coolant Level	
27	1001244608	2	Seal, Foam	
28	1001244616	1	Panel, Air Dam Upper	
29	1001244617	1	Panel, Air Dam Lower	

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FIGURE 4-18. RADIATOR ASSEMBLY (74HP)



ART_1001197475-D

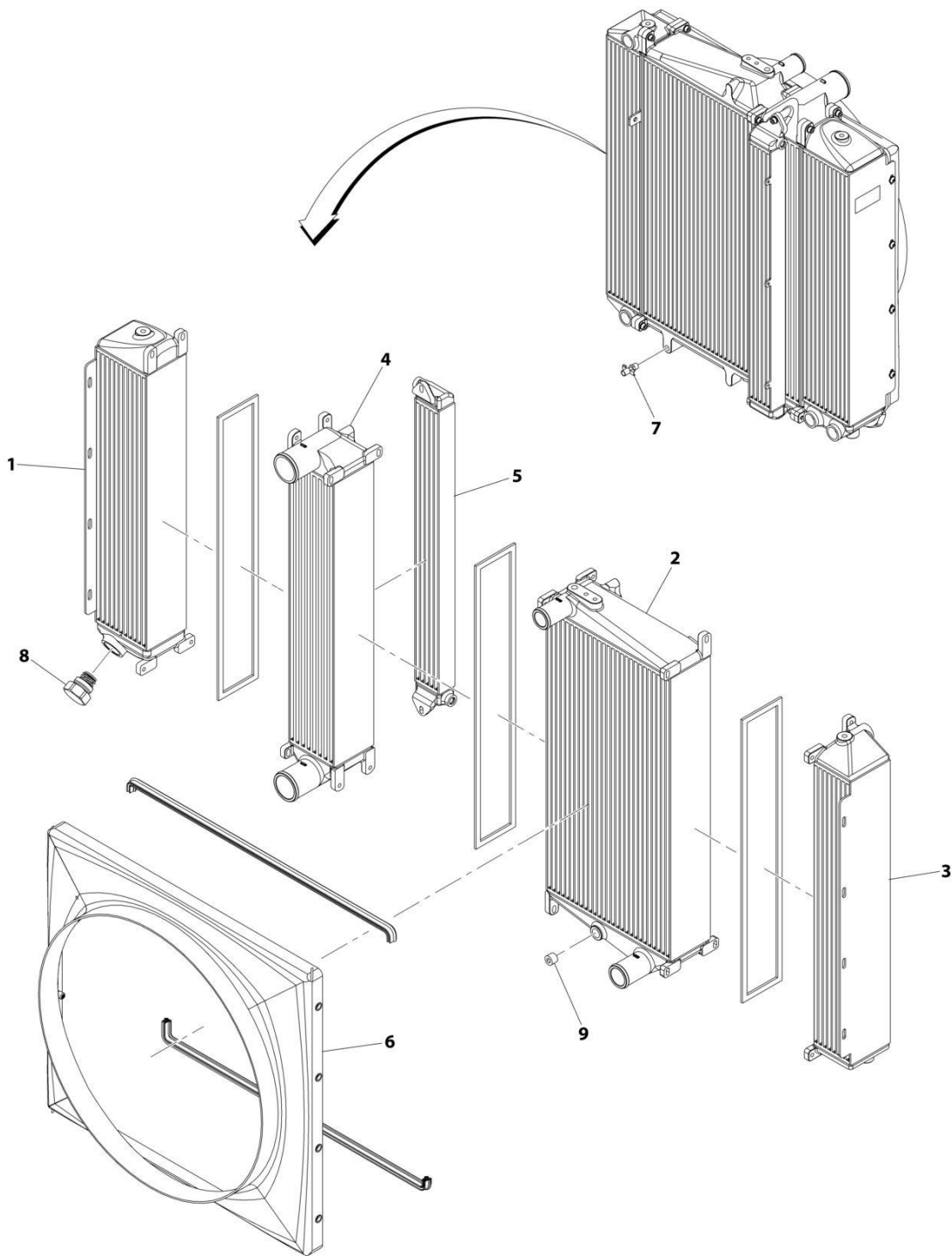
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-18. RADIATOR ASSEMBLY (74HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197475	Ref	Radiator Assembly (74HP)	D
1	70026075	1	Transmission Oil Cooler	
2	70026076	1	Radiator	
3	70026077	1	Hydraulic Oil Cooler	
4	70026078	1	Charge Air Cooler	
5	70026079	1	Fuel Cooler	
6	70027094	1	Fan Shroud	
7	70026081	1	Petcock	
8	70026082	1	Valve, Bypass	
9	70026083	1	Plug, Hex	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-19. RADIATOR ASSEMBLY (130HP)



ART_1001168478

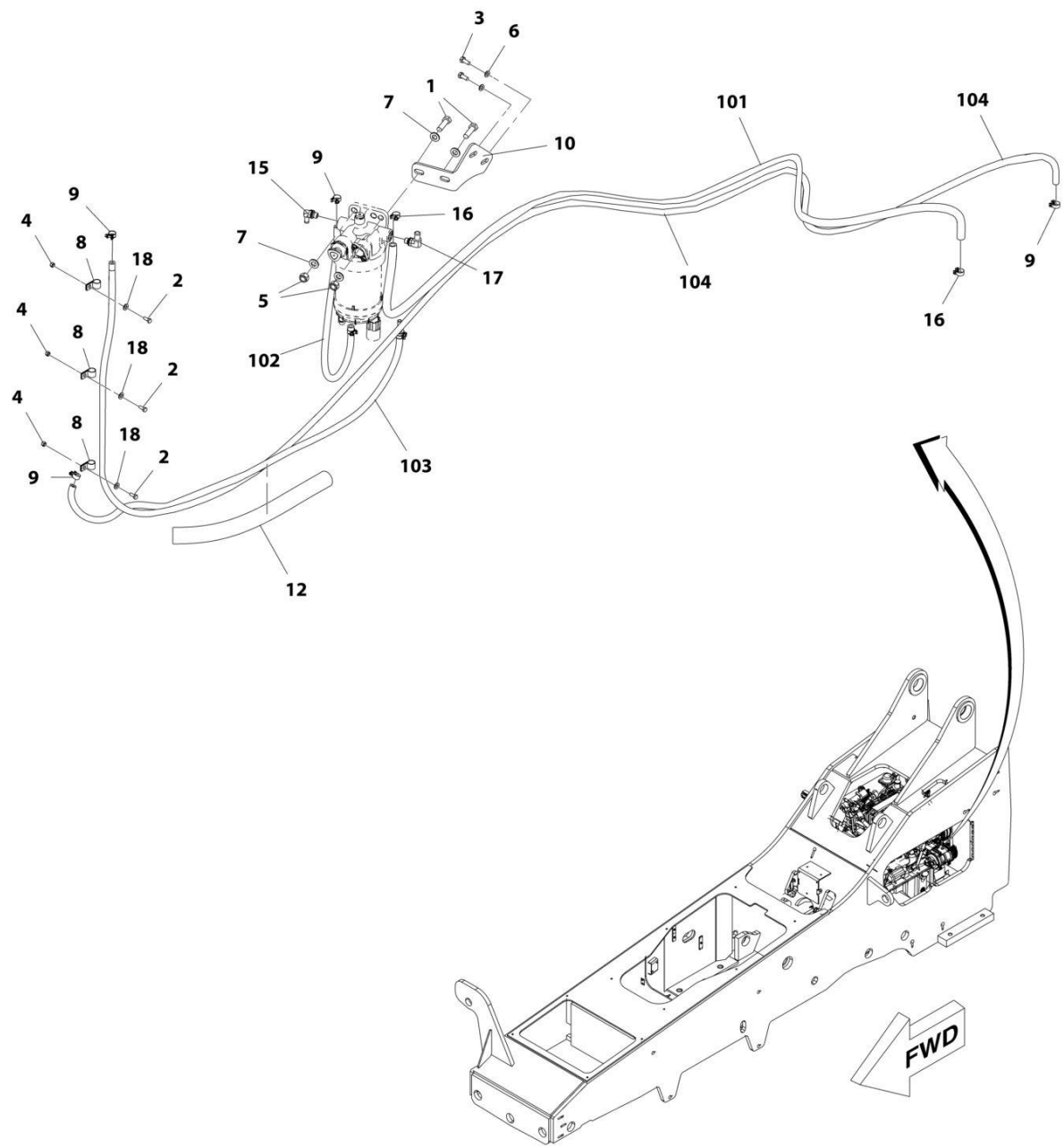
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-19. RADIATOR ASSEMBLY (130HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168478	Ref	Radiator Assembly	F
1	70026075	1	Transmission Oil Cooler	
2	70026076	1	Radiator	
3	70026077	1	Hydraulic Oil Cooler	
4	70026078	1	Charge Air Cooler	
5	70026079	1	Fuel Cooler	
6	70026080	1	Shroud, Fan	
7	70026081	1	Petcock	
8	70026082	1	Valve, Bypass	
9	70026083	1	Plug, Hex	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-20. FUEL PLUMBING INSTALLATION (ULS)



ART_1001165672-H

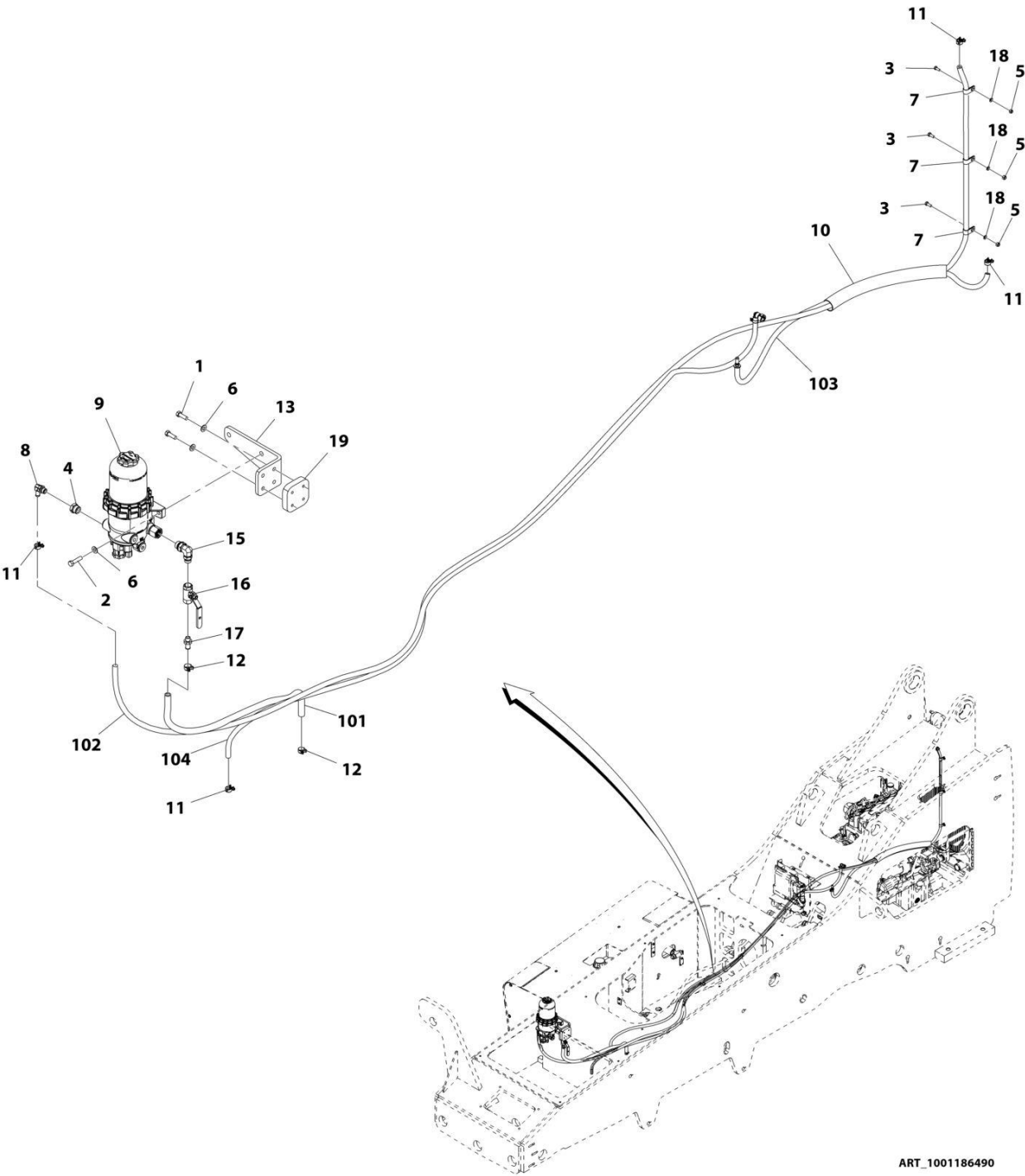
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-20. FUEL PLUMBING INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165672	Ref	Fuel Plumbing Installation (if equipped for ULS)	H
1	0701216	2	Bolt, M12X40	
2	0760608	3	Bolt, M6X16	
3	0761012	2	Bolt, M10X25	
4	3290605	3	Nut, Lock M6X1	
5	3291205	2	Nut, Lock M12X1-3/4	
6	4812000	2	Washer, M10	
7	4812100	4	Washer, M12	
8	8406112	3	Clip, Tube 5/8	
9	1001136975	5	Clamp, Fuel Hose	
10	1001182603	1	Bracket, Filter Mount	
12	1001136358	1	Sleeve, Abrasion	
15	1001182094	1	Adapter, Banjo M14X3/8	
16	1001175568	2	Clip, Hose	
17	1001179375	1	Adapter, Banjo M14X1/2	
18	4811700	3	Washer, M6	
101	1001171802	1	Hose	
102	1001171803	1	Hose	
103	1001201111	1	Hose	
104	1001171805	1	Hose	

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FIGURE 4-21. FUEL PLUMBING INSTALLATION (LS)



ART_1001186490

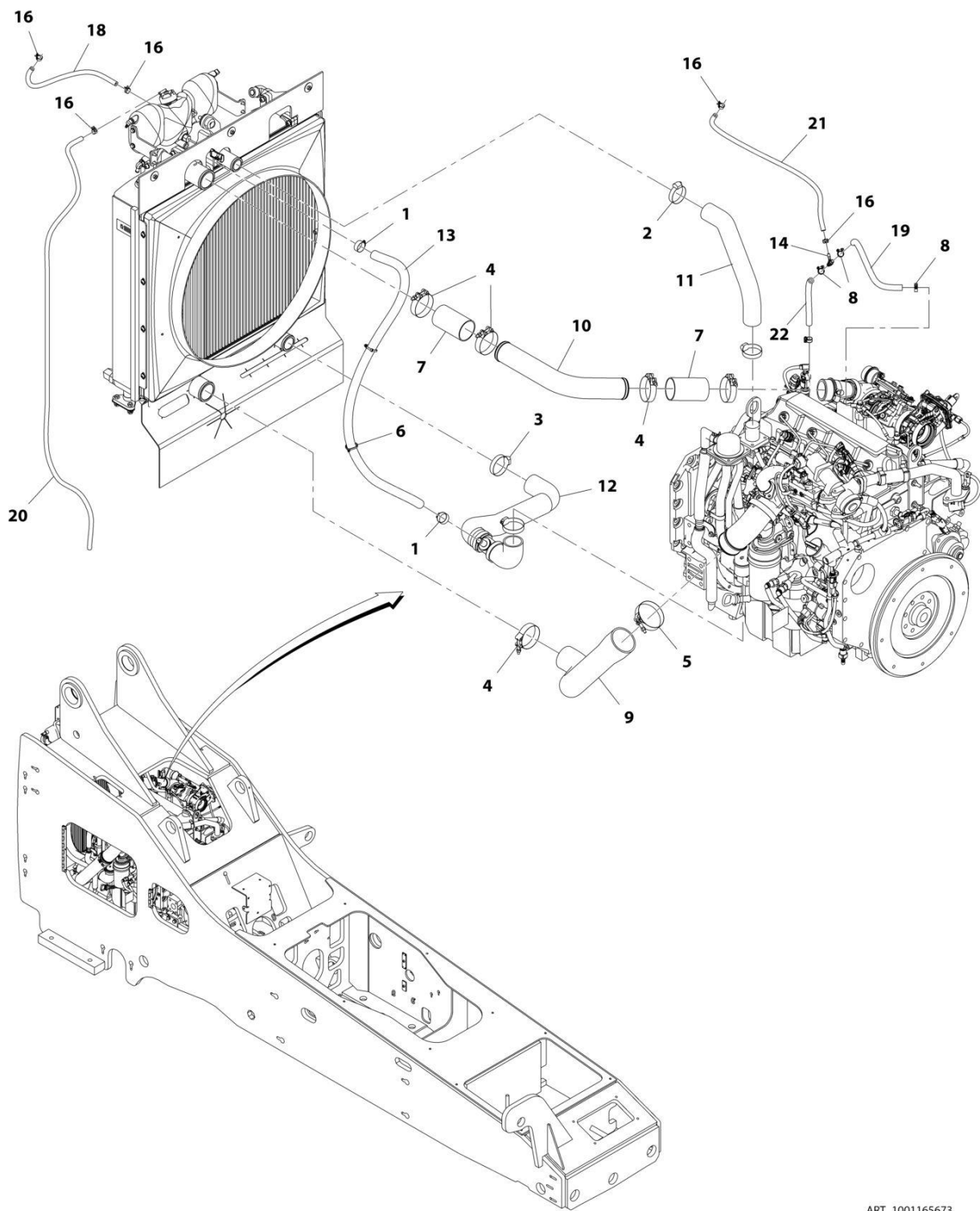
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-21. FUEL PLUMBING INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186490	Ref	Fuel Plumbing Installation (if equipped for LS)	J
1	0641609	4	Bolt, 3/8-16X1-1/8	
2	0641612	2	Bolt, 3/8-16X1-1/2	
3	0760608	3	Bolt, M6X16	
4	2220218	1	Adapter, Straight	
5	3290605	3	Nut, Lock M6X1	
6	4711600	6	Washer, 3/8	
7	8406112	3	Clip, Tube 5/8	
8	1001178776	1	Elbow, 90	
9	1001133534	1	Filter, Fuel	
10	1001136358	1	Sleeve, Abrasion	
11	1001136975	4	Clamp, Fuel Hose	
12	1001175568	2	Clip, Hose	
13	1001190349	1	Bracket, Support	
15	1001190629	1	Adapter, 90	
16	1001190630	1	Valve Shutoff, Female	
17	1001190631	1	Fitting, Hose Barb	
18	4811600	3	Washer, M6	
19	1001190344	1	Bracket	
100	1001190372	1	Hose Kit (Not Shown)	
101	1001190370	1	Hose	
102	1001190371	1	Hose	
103	1001201111	1	Hose	
104	1001171805	1	Hose	

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FIGURE 4-22. PLUMBING COOLING INSTALLATION (ULS)



ART_1001165673

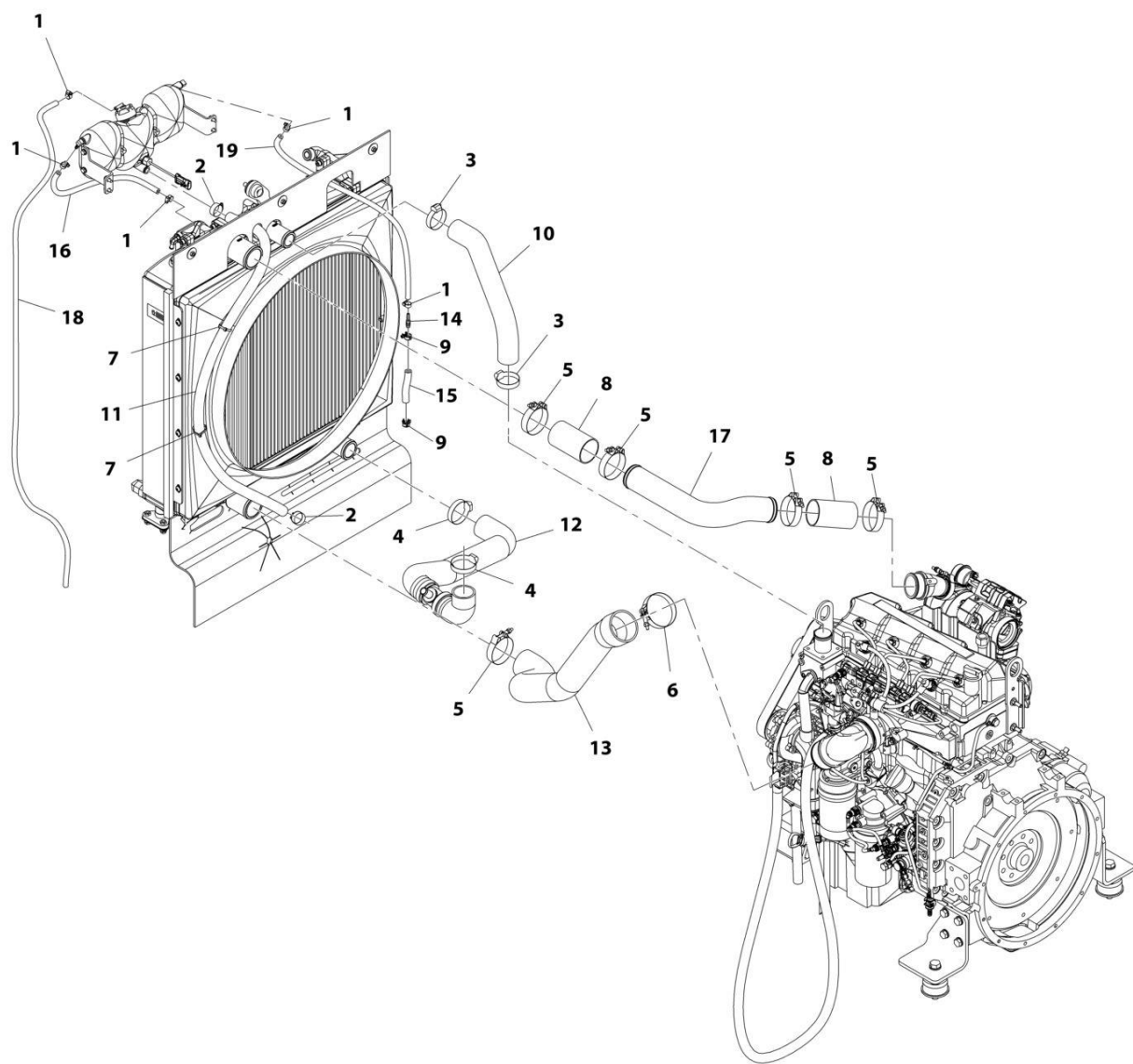
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-22. PLUMBING COOLING INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165673	Ref	Plumbing Cooling Installation (if equipped for ULS)	I
1	8405007	2	Clamp, Gear 1-1/4	
2	8405104	2	Clamp, Gear 2-1/4	
3	8405201	2	Clamp, Gear 2-1/2	
4	8405212	5	Clamp, T-Bolt	
5	8405305	1	Clamp, T-Bolt	
6	1001004720	2	Strap, Cable	
7	1001114495	2	Hose, CAC Straight	
8	1001136975	4	Clamp, Fuel Hose	
9	1001201983	1	Hose, CAC Outlet	
10	1001169271	1	Pipe, CAC Inlet	
11	1001169272	1	Hose, Upper Radiator	
12	1001201945	1	Hose, Lower Radiator	
13	1001169274	1	Hose, Draw Down	
14	1001235725	1	Fitting, Union Tee	
16	1001213938	5	Clamp, Fuel Line	
18	1001203969	1	Hose, Vent Line	
19	1001203970	1	Hose, Vent Line	
20	1001204097	1	Hose, Vent Line	
21	1001204098	1	Hose, Vent Line	
22	1001204099	1	Hose, Vent Line	

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FIGURE 4-23. PLUMBING COOLING INSTALLATION (LS)



ART_1001185652-D

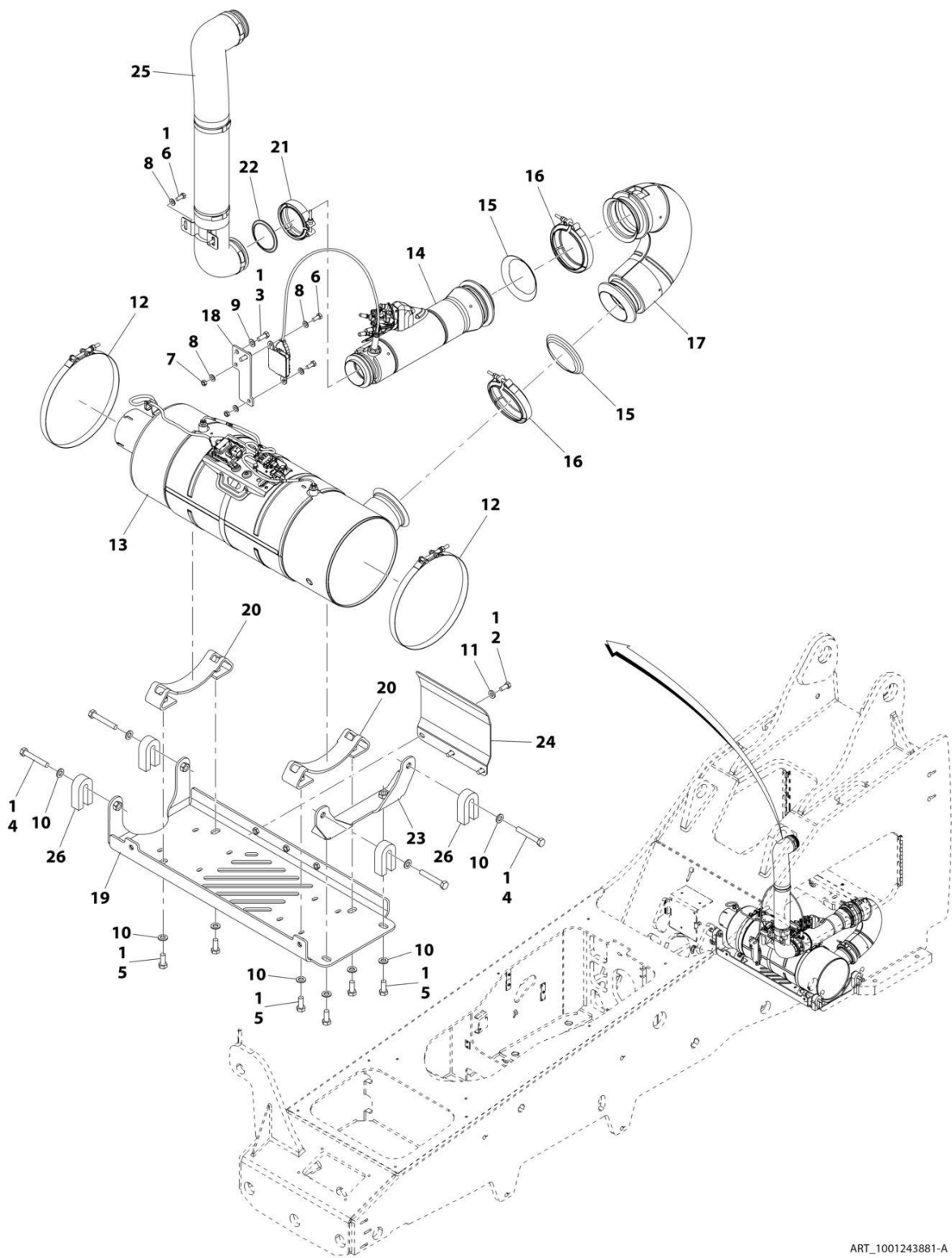
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-23. PLUMBING COOLING INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001185652	Ref	Plumbing Cooling Installation (if equipped for LS)	D
1	1320022	5	Clamp, Fuel Line	
2	8405007	2	Clamp, Gear 1-1/4	
3	8405104	2	Clamp, Gear 2-1/4	
4	8405201	2	Clamp, Gear 2-1/2	
5	8405212	5	Clamp, T-Bolt	
6	8405305	1	Clamp, T-Bolt	
7	1001004720	2	Strap, Cable	
8	1001114495	2	Hose, CAC Straight	
9	1001136975	2	Clamp, Fuel Hose	
10	1001169272	1	Hose, Upper Radiator	
11	1001169274	1	Hose, Draw Down	
12	1001201945	1	Hose, Lower Radiator	
13	1001189318	1	Hose, CAC Outlet	
14	1001189602	1	Fitting, Union Tee	
15	1001189712	1	Hose, Vent Line 3/8	
16	1001203969	1	Hose, Vent 1/4	
17	1001189715	1	Pipe, CAC Inlet	
18	1001204097	1	Hose, Vent 1/4	
19	1001204098	1	Hose, Vent 1/4	

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FIGURE 4-24. AFTERTREATMENT INSTALLATION (ULS)



ART_1001243881-A

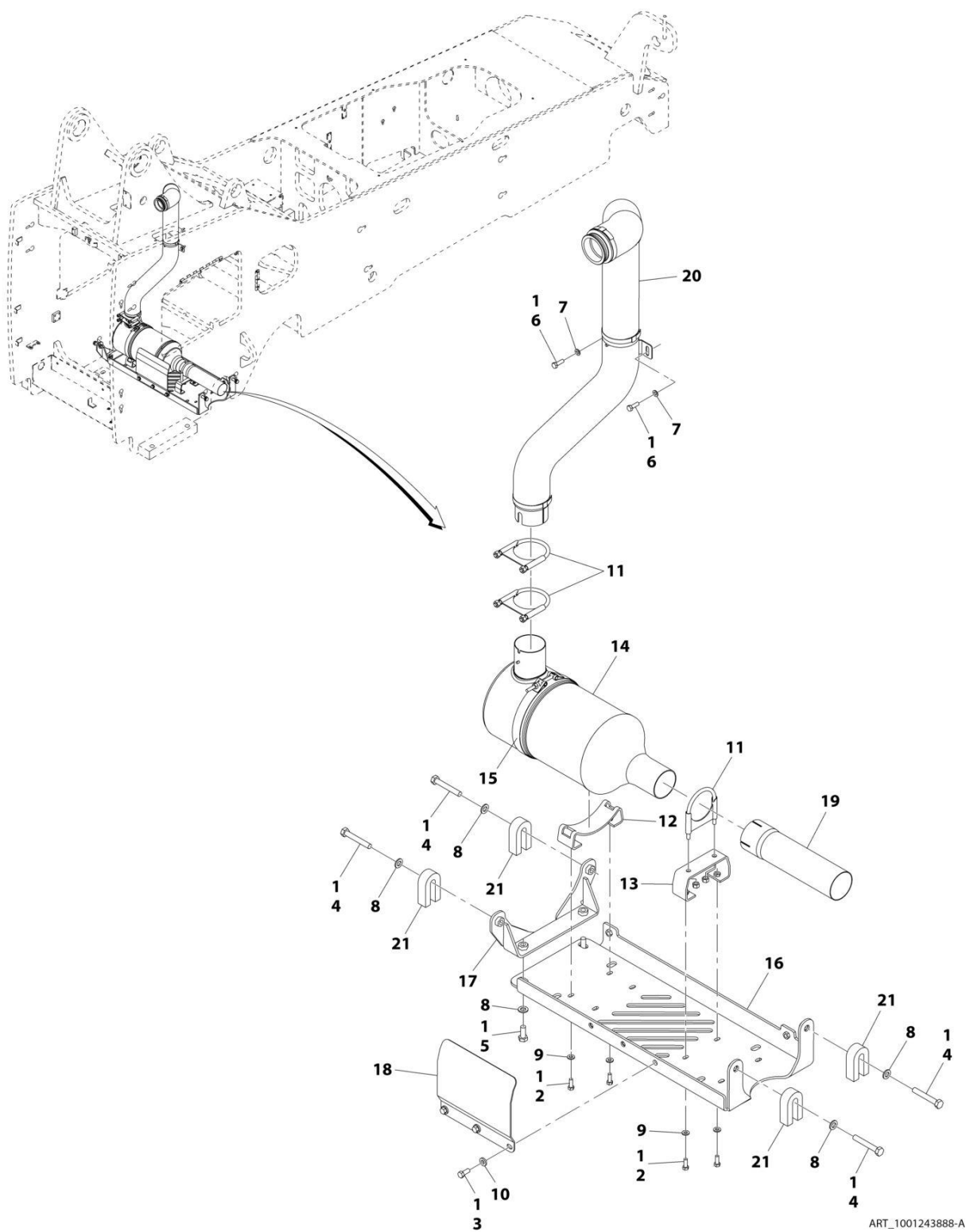
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-24. AFTERTREATMENT INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243881	Ref	Aftertreatment Installation (ULS)	A
1	0100011	AR	Compound, Locking	
2	0641607	3	Capscrew, 3/8-16X7/8	
3	0641608	2	Bolt, 3/8-16X1	
4	0701224	4	Bolt, M12X80	
5	0711214	6	Bolt, M12X30	
6	0760810	4	Bolt, M8X20	
7	3290801	2	Nut, M8X1-1/4	
8	4811900	6	Washer, M8	
9	4812000	2	Washer, M10	
10	4812100	10	Washer, M12	
11	4891600	3	Washer, 3/8	
12	1001159932	2	Strap, Clamp	
13	1001160782	1	Muffler, After-Treatment	
14	1001164404	1	Muffler, Decomposition Reactor Tube	
15	1001164837	2	Seal, Gasket	
16	1001164838	2	Clamp, V-Band	
17	1001165609	1	Pipe, Exhaust	
18	1001166693	1	Bracket	
19	1001166935	1	Bracket	
20	1001166976	2	Bracket	
21	1001167167	1	Clamp, V-Band	
22	1001167168	1	Seal, Gasket	
23	1001169057	1	Bracket	
24	1001174327	1	Shield	
25	1001183811	1	Pipe, Exhaust	
26	1001244277	4	Spacer	

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FIGURE 4-25. EXHAUST INSTALLATION (74HP)



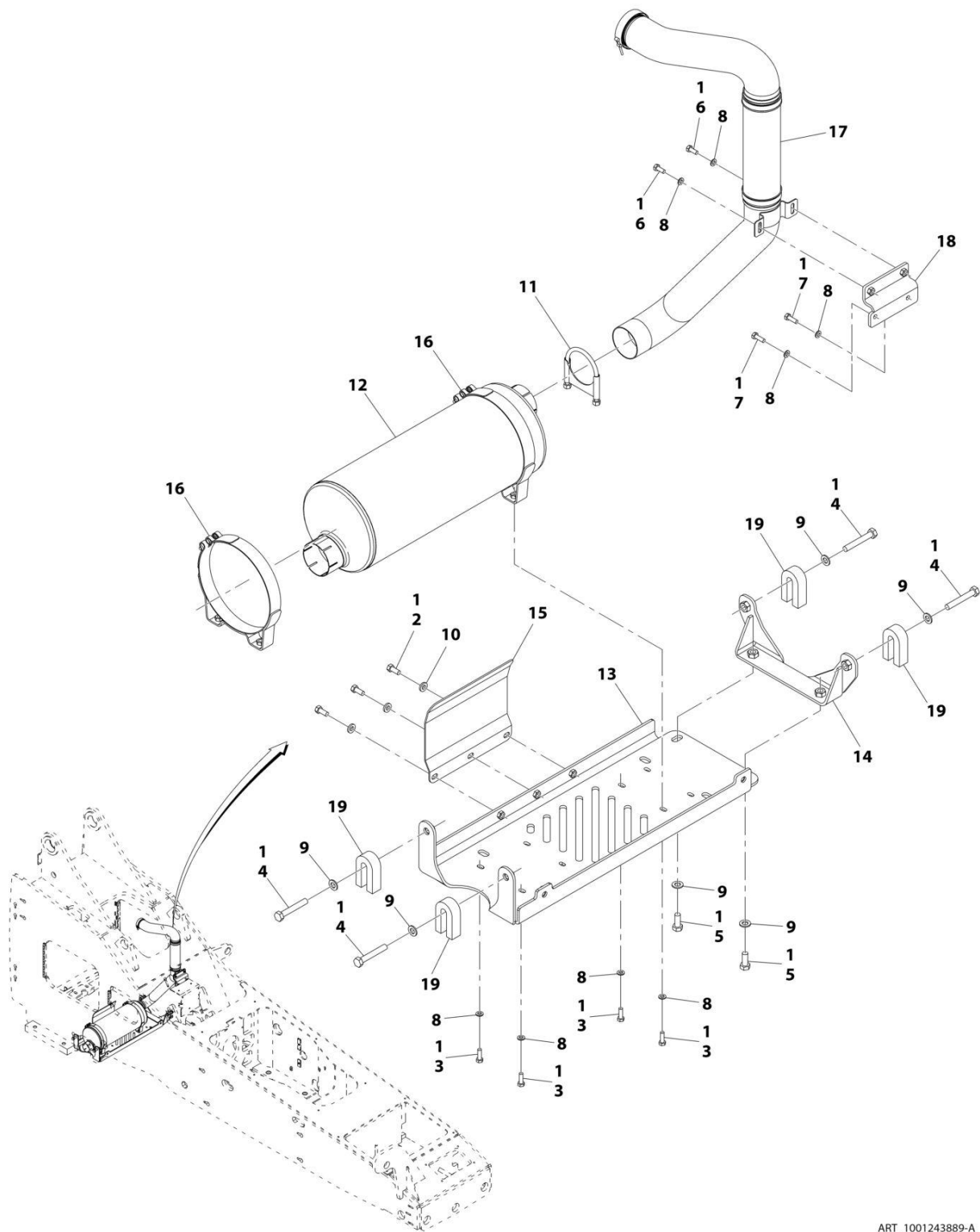
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-25. EXHAUST INSTALLATION (74HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243888	Ref	Exhaust Installation (74HP)	A
1	0100011	AR	Compound, Locking	
2	0641507	4	Bolt, 5/16-18X7/8	
3	0641607	3	Bolt, 3/8-16X7/8	
4	0701224	4	Bolt, M12X80	
5	0711214	2	Bolt, M12X30	
6	0760812	2	Bolt, M8X25	
7	4811900	2	Washer, M8	
8	4812100	6	Washer, M12	
9	4891500	4	Washer, 5/16	
10	4891600	3	Washer, 3/8	
11	24921332	3	Clamp	
12	1001128363	1	Bracket	
13	1001128364	1	Bracket	
14	1001128714	1	Muffler	
15	1001128901	1	Strap	
16	1001166935	1	Bracket	
17	1001169057	1	Bracket	
18	1001174327	1	Shield	
19	1001196396	1	Pipe, Exhaust	
20	1001196397	1	Pipe, Exhaust	
21	1001244277	4	Spacer	

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FIGURE 4-26. EXHAUST INSTALLATION (130HP)



ART_1001243889-A

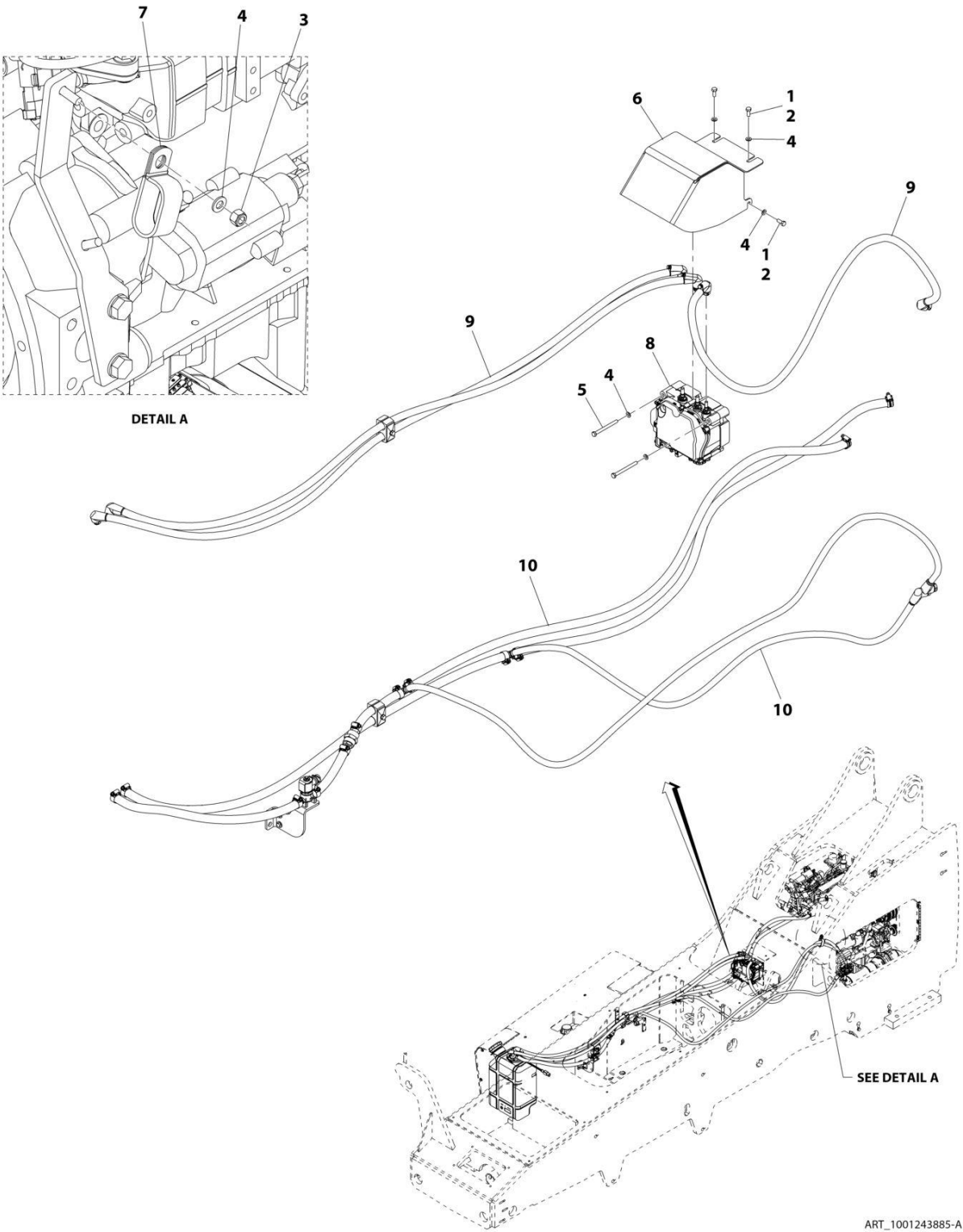
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FIGURE 4-26. EXHAUST INSTALLATION (130HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243889	Ref	Exhaust Installation (130HP)	A
1	0100011	AR	Compound, Locking	
2	0641607	3	Bolt, 3/8-16X7/8	
3	0700812	4	Bolt, M8X25	
4	0701224	4	Bolt, M12X80	
5	0711214	2	Bolt, M12X30	
6	0760810	2	Bolt, M8X20	
7	0760812	2	Bolt, M8X25	
8	4811900	8	Washer, M8	
9	4812100	6	Washer, M12	
10	4891600	3	Washer, 3/8	
11	24921332	1	Clamp	
12	91163035	1	Muffler	
13	1001166935	1	Bracket	
14	1001169057	1	Bracket	
15	1001174327	1	Shield	
16	1001180227	2	Muffler, Band Clamp	
17	1001190962	1	Pipe, Exhaust	
18	1001190990	1	Bracket, Exhaust Support	
19	1001244277	4	Spacer	

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FIGURE 4-27. DEF SYSTEM INSTALLATION (ULS)



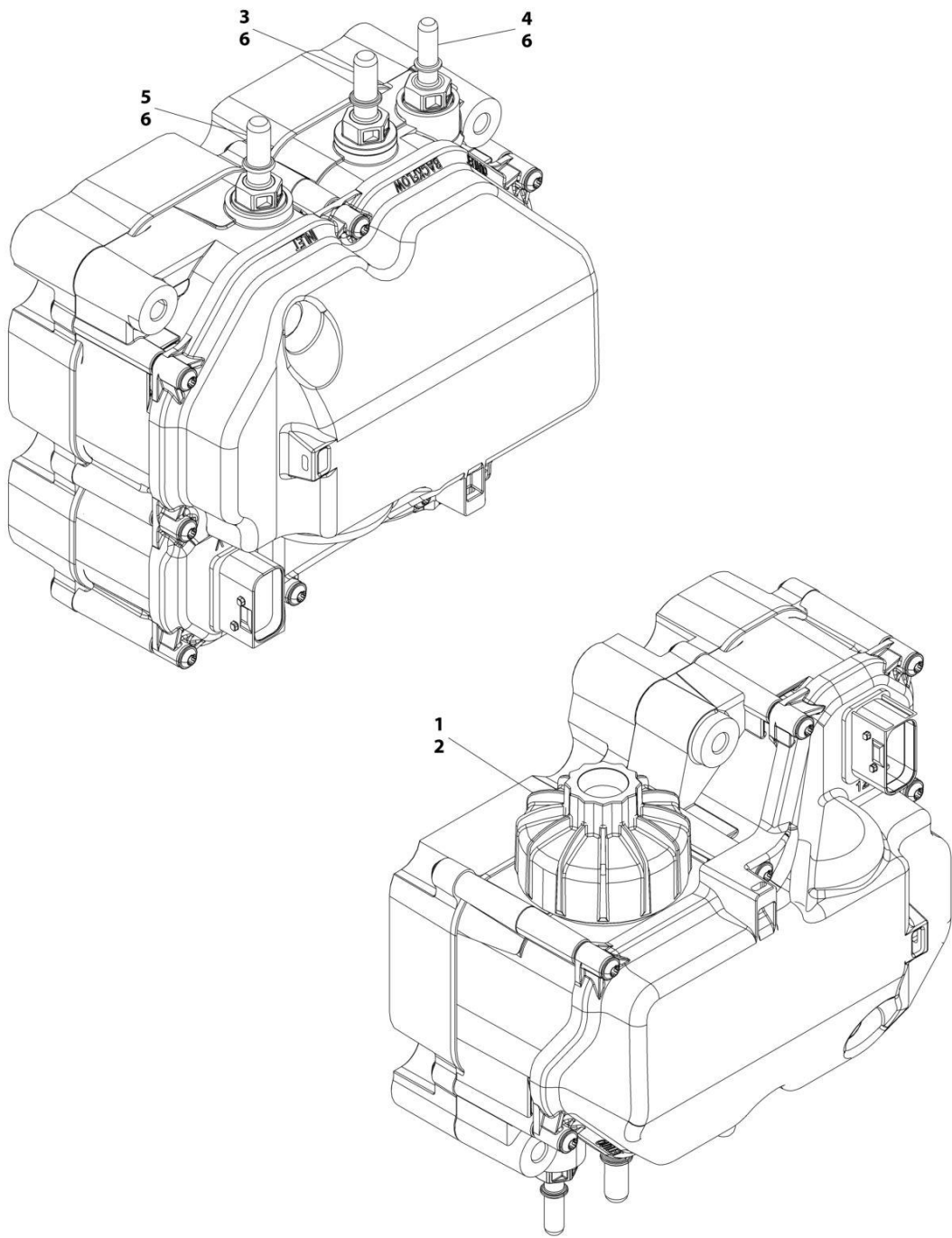
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FIGURE 4-27. DEF SYSTEM INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243885	Ref	DEF System Installation (ULS)	B
1	0100011	AR	Compound, Locking	
2	0760810	4	Bolt, M8X20	
3	3290805	1	Nut, Lock M8X1-1/4	
4	4811900	8	Washer, M8	
5	8310424	3	Bolt, M8X90	
6	1001169172	1	Cover, DEF Supply	
7	1001181899	1	Clamp	
8	1001213210	1	DEF Module Pump (See Separate Breakdown in this Section)	
9	1001229025	1	Installation, DEF Lines (See Separate Breakdown in this Section)	
10	1001229117	1	Installation, DEF Coolant Lines (See Separate Breakdown in this Section)	

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FIGURE 4-28. DEF MODULE PUMP



ART_1001213210-A

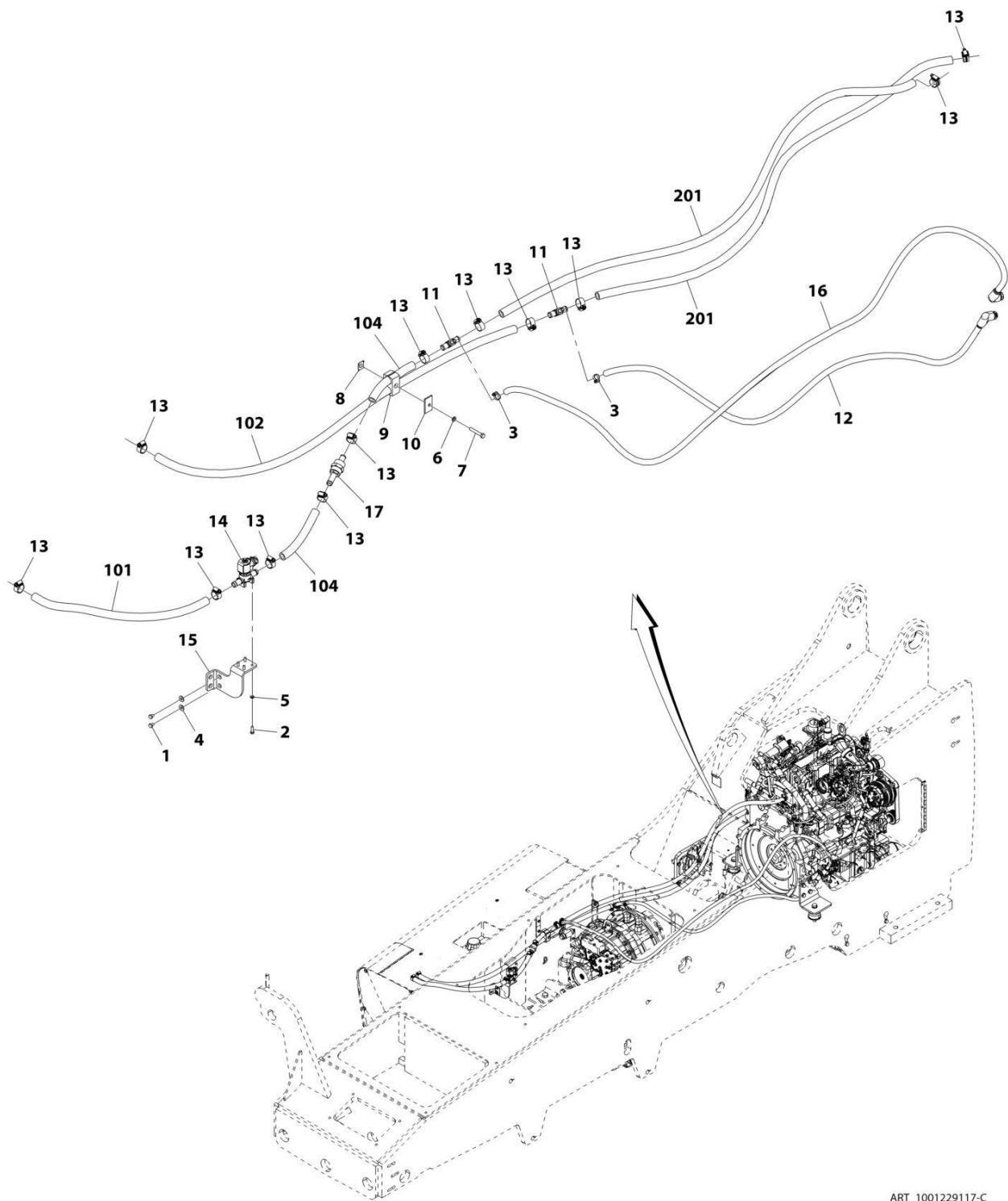
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FIGURE 4-28. DEF MODULE PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001213210	Ref	DEF Module Pump	B
1	70026248	1	Kit, Filter	
2	70026247	1	Cap, Filter	
3	70027705	1	Connector, Male (Backflow)	
4	70026245	1	Connector, Male (Outlet)	
5	70026244	1	Connector, Male (Inlet)	
6	70027706	3	Gasket, Circular (O-Ring)	

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FIGURE 4-29. DEF COOLANT LINES INSTALLATION



ART_1001229117-C

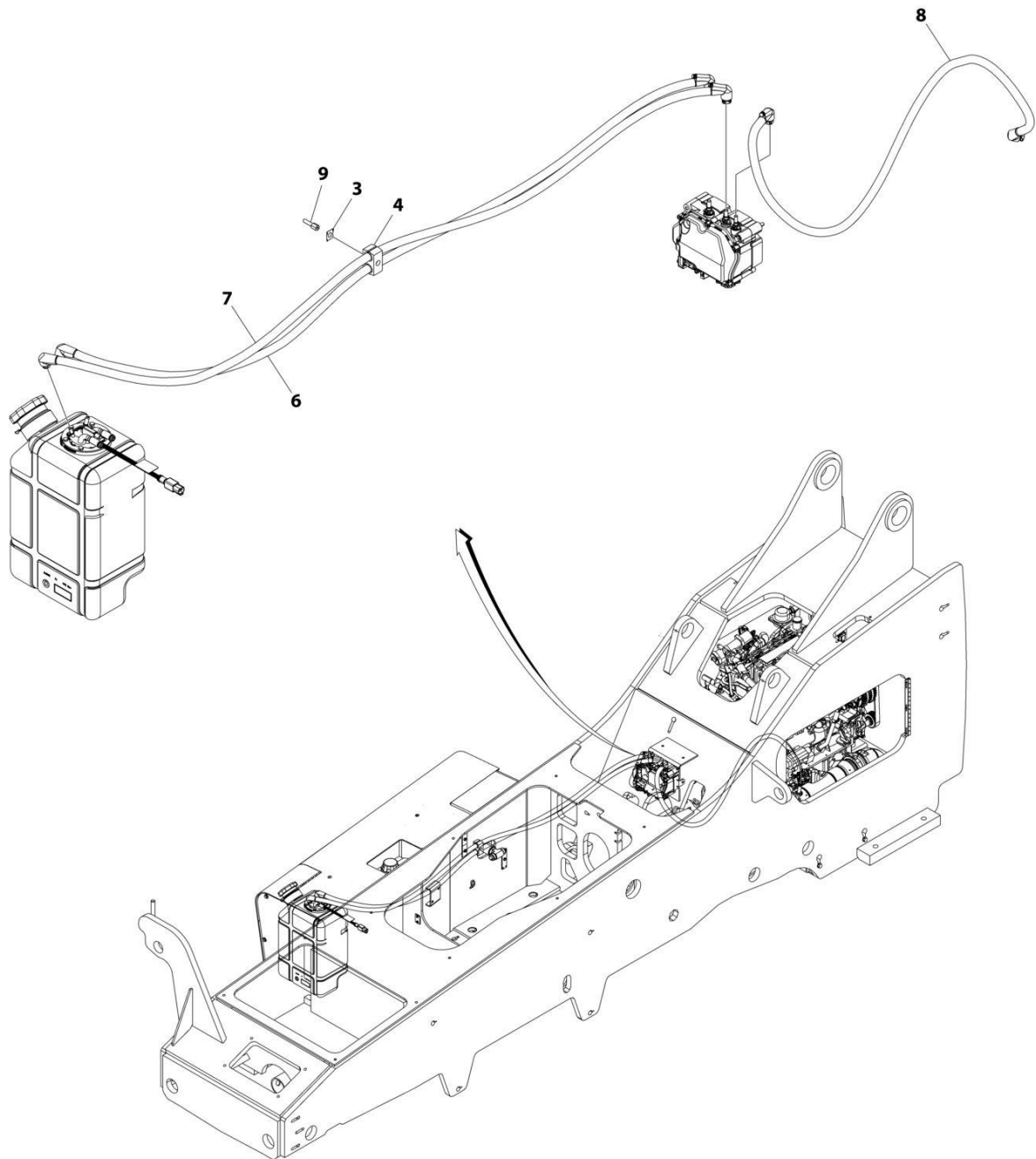
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-29. DEF COOLANT LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229117	Ref	DEF Coolant Lines Installation	C
1	0641403	2	Bolt, 1/4X3/8	
2	0760610	4	Bolt, M6X20	
3	1320032	2	Clamp, Fuel Line	
4	4751400	2	Washer, 1/4	
5	4811700	4	Washer, M6	
6	8307004	1	Washer 5/16	
7	8310009	1	Bolt, 5/16X2	
8	8750017	1	Plate, Locking	
9	8769127	1	Clamp Set, Twin	
10	8769128	1	Plate, Twin Cover	
11	1001162212	2	Fitting, Hose Barb Tee	
12	1001169001	1	Hose	
13	1001173535	12	Clamp	
14	1001199670	1	Valve, Coolant Control	
15	1001199951	1	Bracket, Valve Mount	
16	1001224096	1	Hose	
17	1001228872	1	Filter, Coolant Screen	
101	1001171472	1	Hose	
102	1001171473	1	Hose	
103	1001229210	2	Hose	
201	1001171474	2	Hose	

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FIGURE 4-30. DEF LINES INSTALLATION



ART_1001229025_D

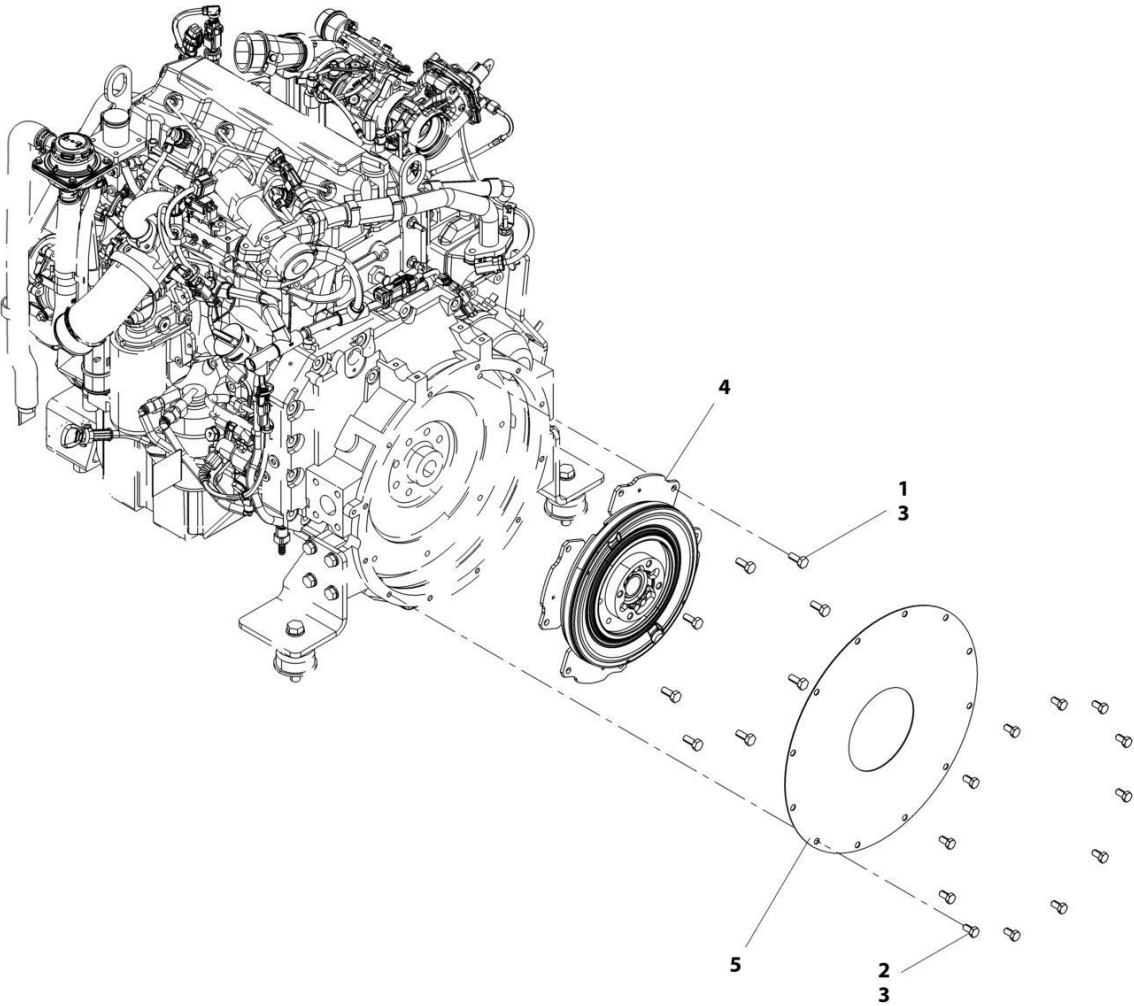
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-30. DEF LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229025	Ref	DEF Lines Installation	D
3	8750017	1	Plate, Locking	
4	8769127	1	Clamp Set, Twin	
6	1001229023	1	Hose	
7	1001229024	1	Hose	
8	1001168859	1	Hose	
9	8750012	1	Bolt, Stacking	

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FIGURE 4-31. PUMP COUPLER INSTALLATION



ART_1001166229_B

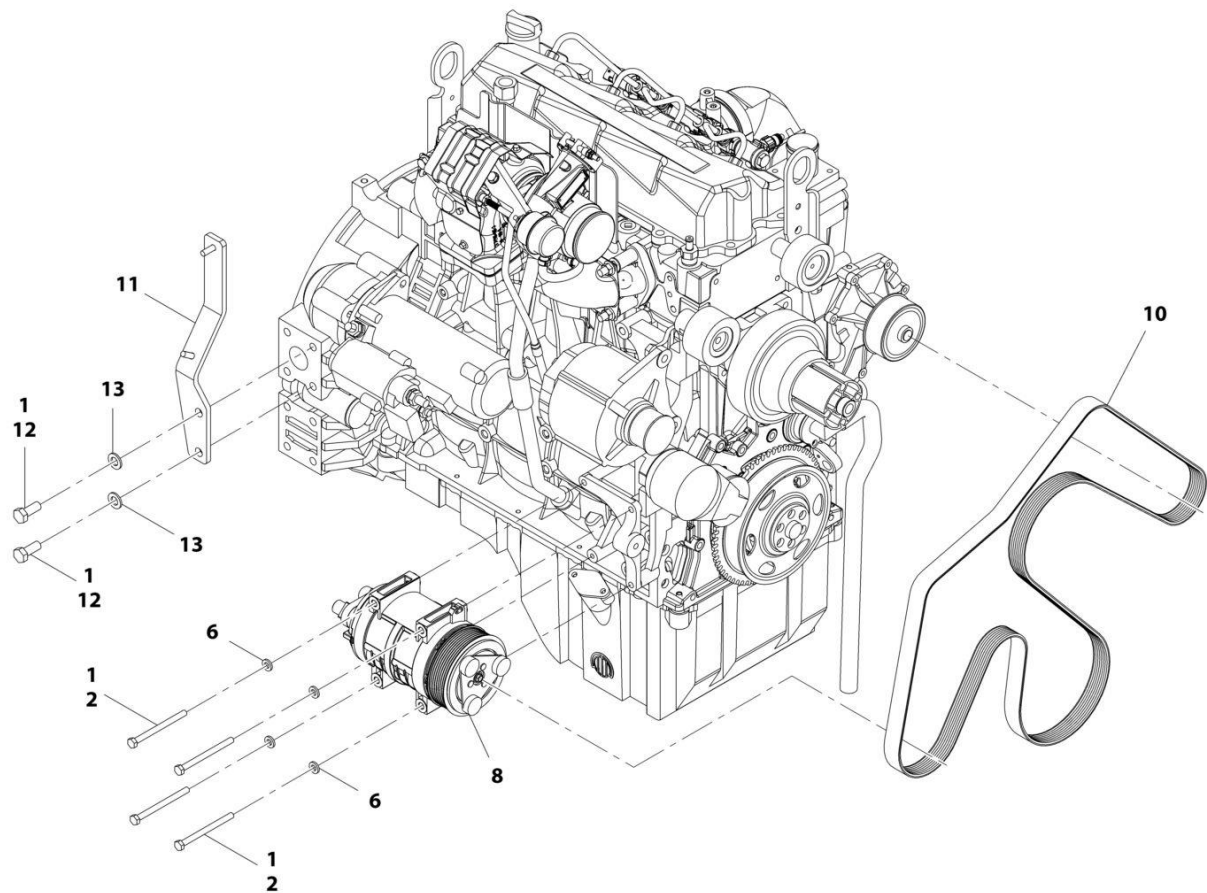
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-31. PUMP COUPLER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166229	Ref	Isolation Coupler Installation	B
1	0761012	8	Bolt, M10X25	
2	8303784	12	Bolt, M10X20	
3	8526007	AR	Compound, Locking	
4	1001180244	1	Coupling, Torsion Damper	
5	1001185071	1	Panel, Isolation Coupler	

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FIGURE 4-32. A/C COMPONENTS INSTALLATION (74HP)



ART_1001190295-B

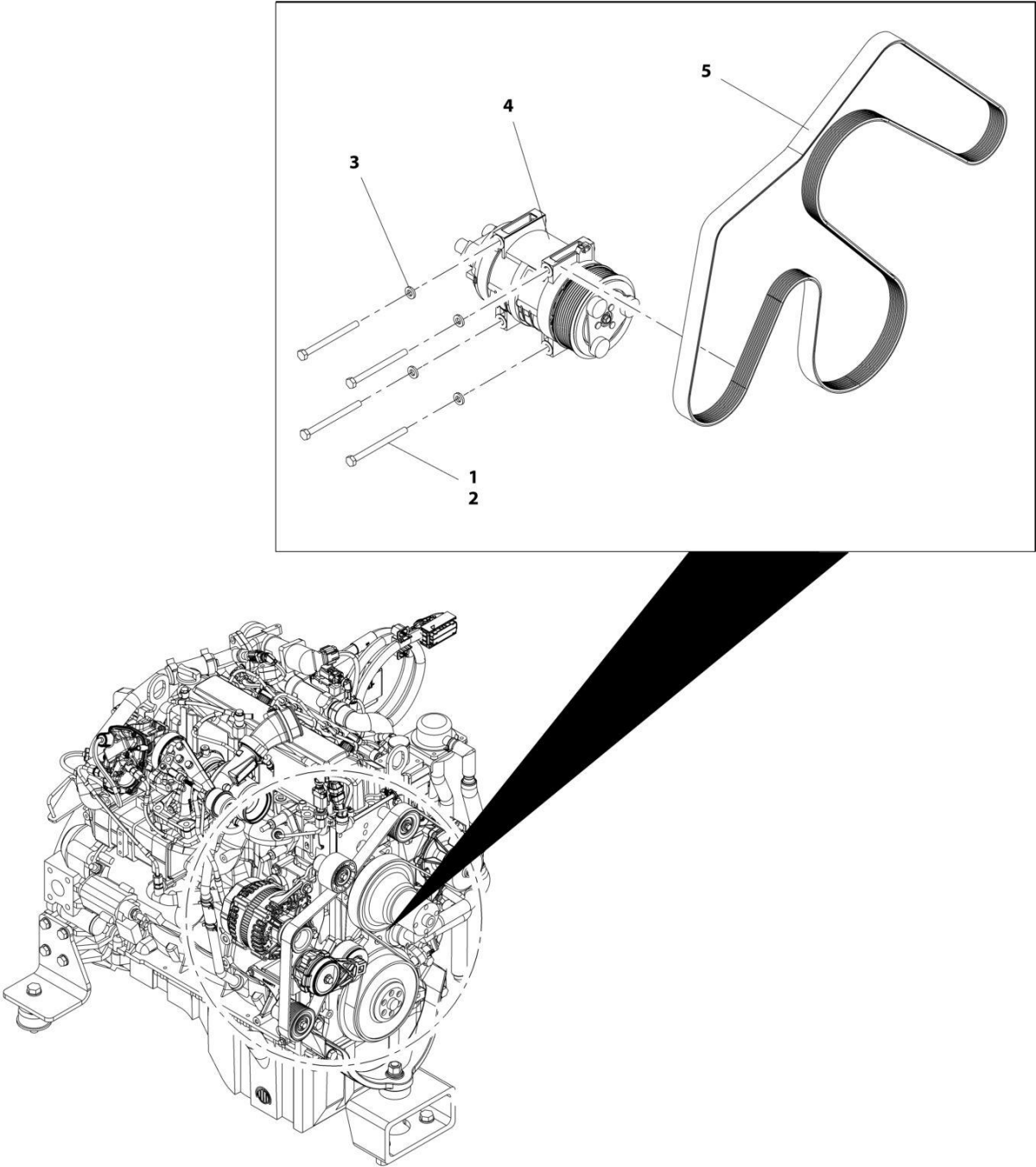
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-32. A/C COMPONENTS INSTALLATION (74HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001190295	Ref	A/C Components Installation (if equipped for LS)	B
1	0100011	AR	Compound, Locking	
2	0700827	4	Bolt, M8X100	
6	5240800	4	Washer, M8	
8	1001157663	1	Compressor, A/C	
10	1001167357	1	Belt	
11	1001197233	1	Bracket, AC Hose Support	
12	0711214	2	Bolt, M12X30	
13	4812100	2	Washer, M12	

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FIGURE 4-33. A/C COMPONENTS INSTALLATION (130HP)



ART_1001166008_A

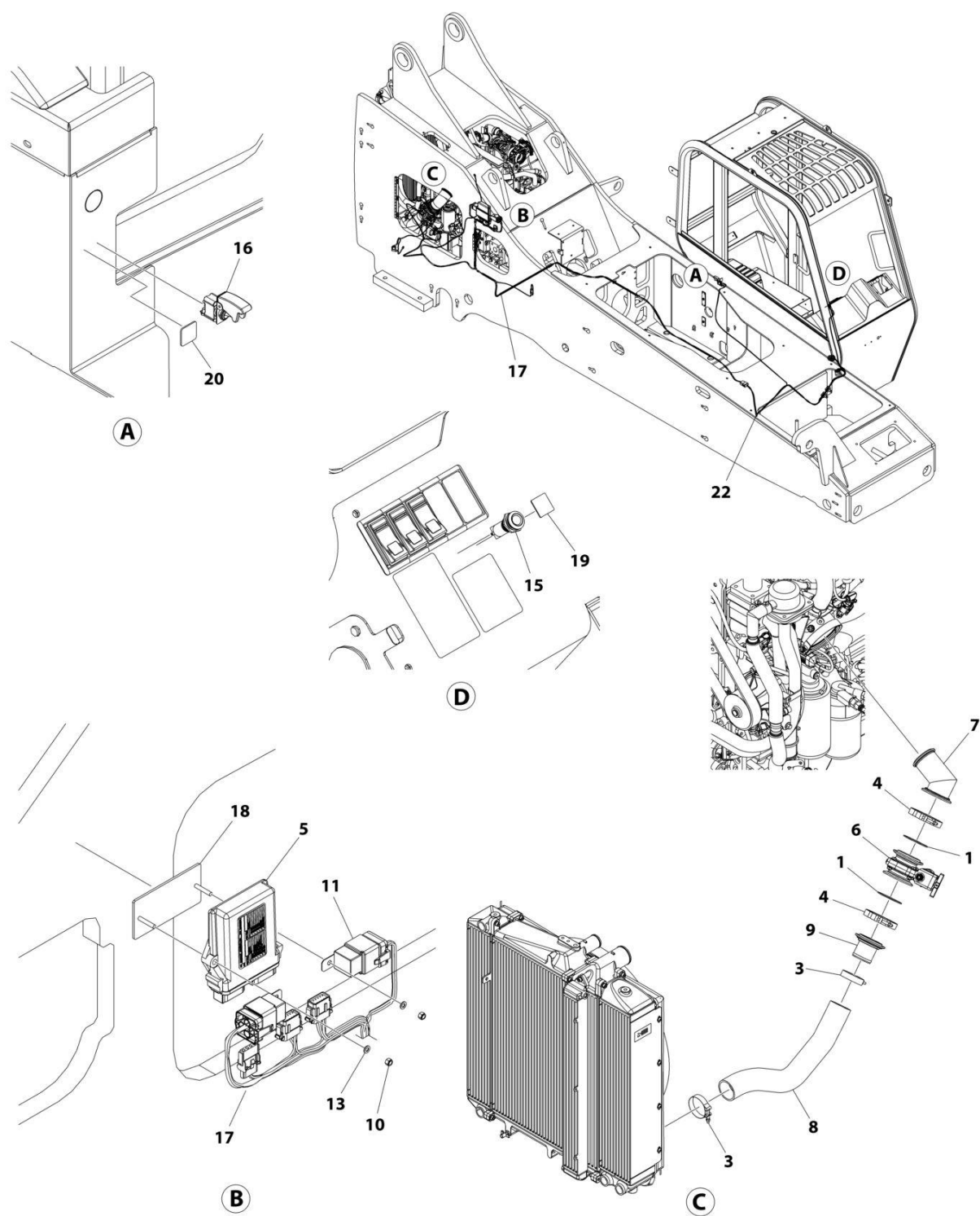
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-33. A/C COMPONENTS INSTALLATION (130HP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166008	Ref	A/C Components Installation	A
1	0100011	AR	Compound, Locking	
2	0700827	4	Bolt, M8X100	
3	5240800	4	Washer, M8	
4	1001157663	1	Compressor, A/C	
5	1001167357	1	Belt	

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FIGURE 4-34. AIR INTAKE SHUT OFF VALVE INSTALLATION



ART_1001202304_F

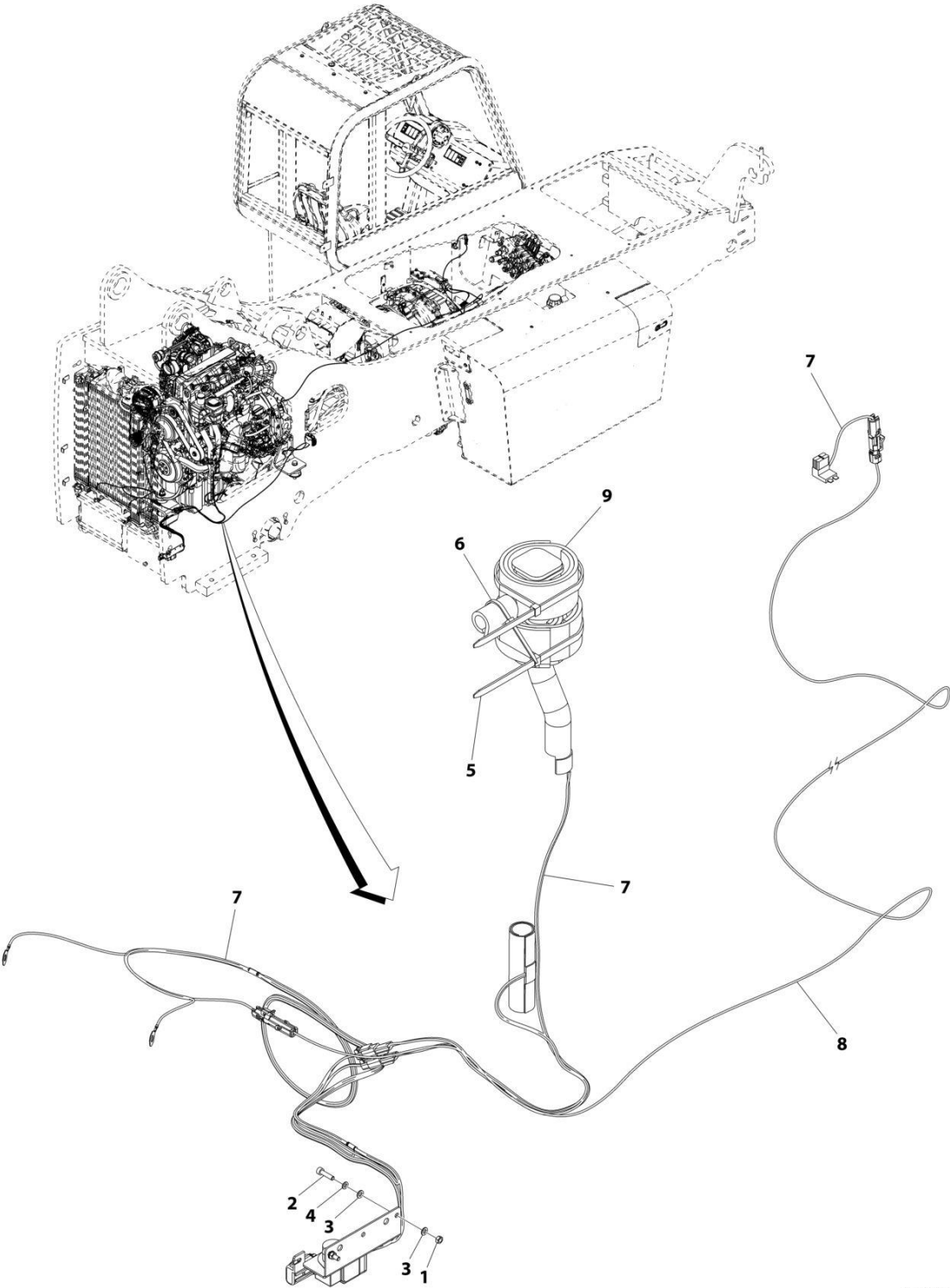
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-34. AIR INTAKE SHUT OFF VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202304	Ref	Air Intake Shut Off Valve Installation	F
1	3790152	2	Ring	
3	8405212	2	Clamp	
4	1001202247	2	Clamp	
5	1001203181	1	Accessory, Control	
6	1001204032	1	Valve, Air Shut Off (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
7	1001206956	1	Pipe	
8	1001206983	1	Hose	
9	1001206985	1	Adapter	
10	3290505	2	Nut M5 Grade 8	
11	3740080	2	Relay	
13	4811600	2	Washer, M5	
14	91053419	AR	Strap, Cable (not shown)	
15	1001239539	1	Lamp	
16	1001215941	1	Switch	
17	1001216455	1	Harness, POSI Air Shut Off Valve T4F (See Separate Breakdown in ELECTRICAL Section)	
18	1001219082	1	Bracket	
19	1001227077	1	Decal, Air Shut Off	
20	1001227964	1	Decal, ASOV Test	
22	1001231560	1	Harness, POSI Air Shut Off Valve Cab (See Separate Breakdown in ELECTRICAL Section)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-35. HEATER BREATHER



ART_1001232750-A

SECTION 4 - ENGINE AND ATTACHING PARTS

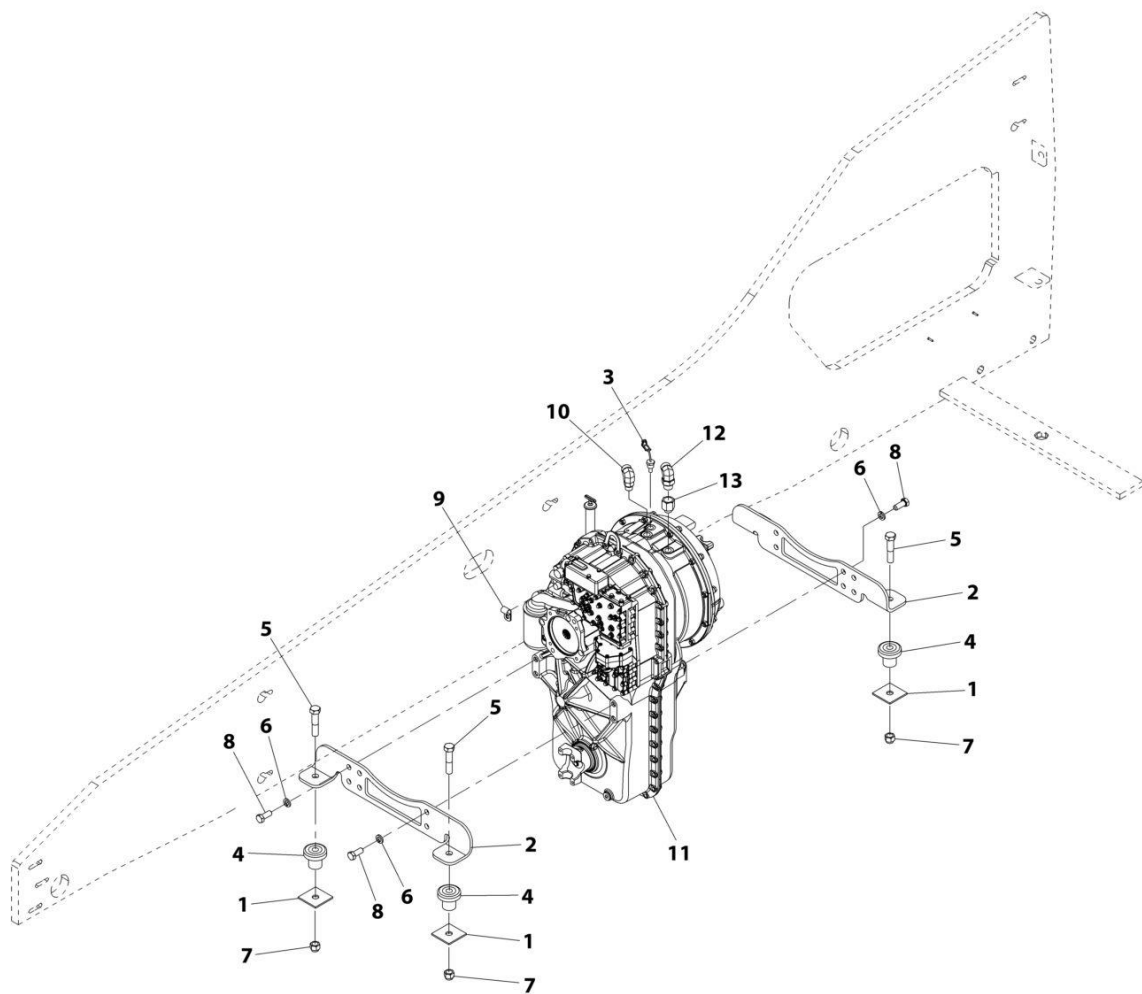
FIGURE 4-35. HEATER BREATHER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232750	Ref	Heater Breather - 74 HP	A
1	3290501	2	Nut, M5X0.8	
2	4031608	2	Screw, M5X20	
3	4811600	4	Washer, M5	
4	4831600	2	Washer, Lock M5	
5	01043892	2	Strap, Tie	
6	86683122	1	Strap, Tie	
7	1001232439	1	Engine, Cummins Breather Kit	
8	1001232599	1	Harness, Cummins Breather Heater	
9	1001232624	1	Insulate, Cummins Insulation	

SECTION 5 - DRIVE TRAIN

SECTION 5 - DRIVE TRAIN

FIGURE 5-1. TRANSMISSION INSTALLATION



ART_1001108524-B

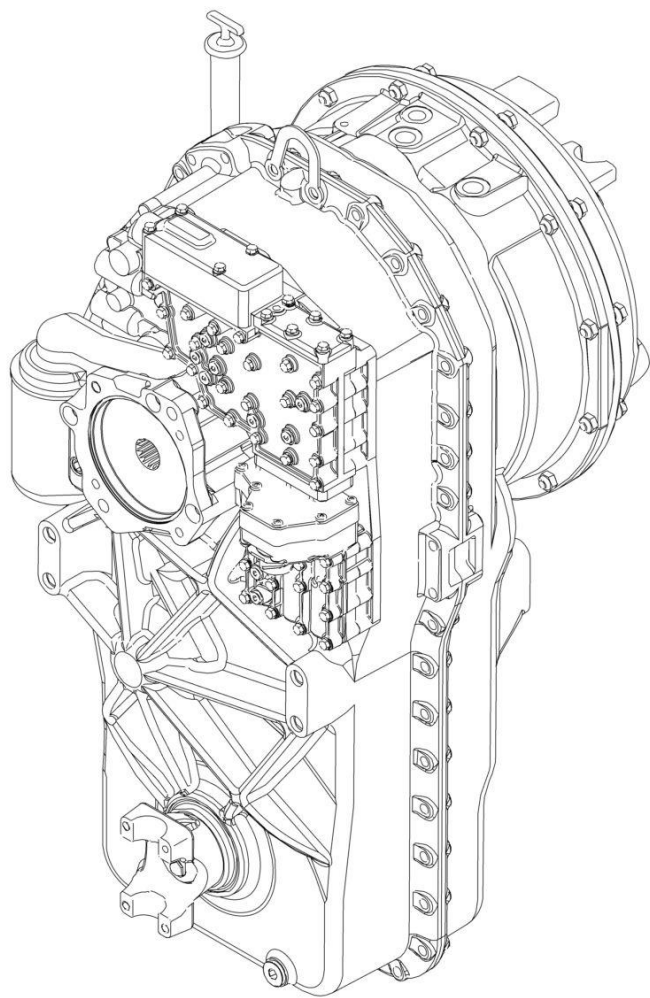
SECTION 5 - DRIVE TRAIN

FIGURE 5-1. TRANSMISSION INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108524	Ref	Transmission Installation	B
1	7054351	4	Washer, Rebound	
2	7138634	2	Bracket, Transmission Mount	
3	8223232	1	Switch, Transmission Temperature	
4	91403097	4	Mount, Rubber	
5	8303724	4	Bolt, 3/4-10X3-1/2	
6	8307049	8	Washer, Lock M16	
7	8310067	4	Nut, Lock 3/4-10	
8	8310215	8	Bolt, M16X40	
9	8406105	1	Clip, Tube	
10	2131210	1	Adapter, 90	
11	8841036	1	Transmission, 4-Speed (See Separate Breakdown in this Section)	
12	2131212	1	Adapter, 90	
13	8760548	1	Adapter, Straight	

SECTION 5 - DRIVE TRAIN

FIGURE 5-2. TRANSMISSION, 4-SPEED



ART_8841036_1-C

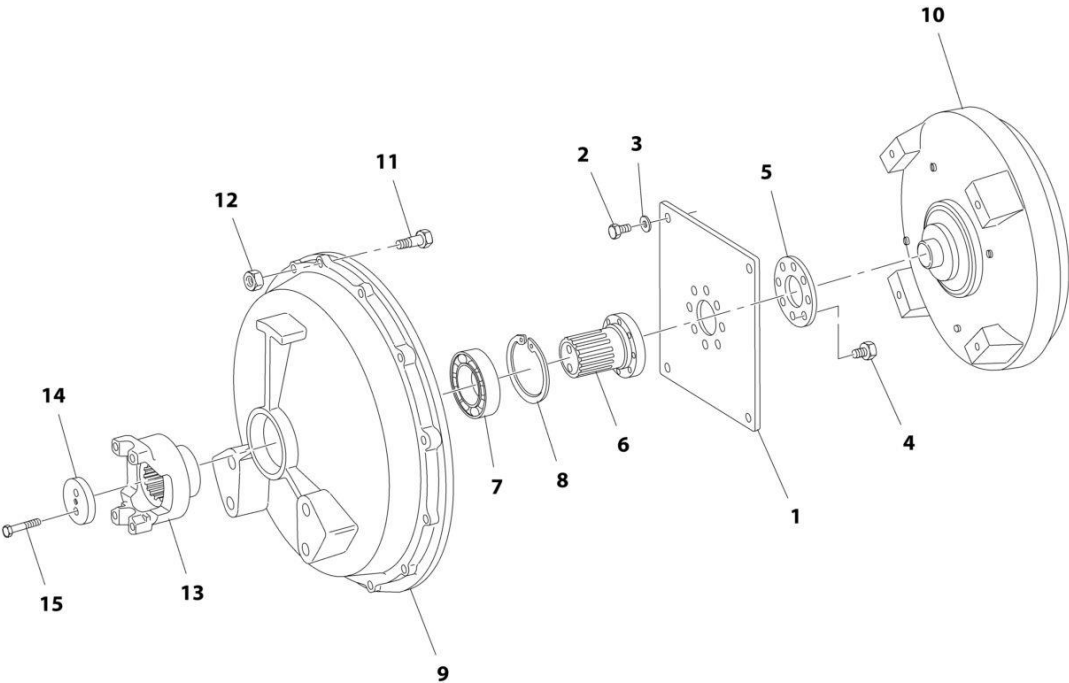
SECTION 5 - DRIVE TRAIN

FIGURE 5-2. TRANSMISSION, 4-SPEED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION ASSEMBLY	C
		Ref	Transmission - Engine Connection and Converter (See Separate Breakdown in this Section)	
		Ref	Transmission - Input Shafts (See Separate Breakdown in this Section)	
		Ref	Transmission - Gearbox Housing (See Separate Breakdown in this Section)	
		Ref	Transmission - Coupling Group 1 (See Separate Breakdown in this Section)	
		Ref	Transmission - Coupling Group 2 (See Separate Breakdown in this Section)	
		Ref	Transmission - Coupling Group 3 (See Separate Breakdown in this Section)	
		Ref	Transmission - Coupling Group 4 (See Separate Breakdown in this Section)	
		Ref	Transmission - Reversing Gear Group 1 (See Separate Breakdown in this Section)	
		Ref	Transmission - Reversing Gear Group 2 (See Separate Breakdown in this Section)	
		Ref	Transmission - Output (See Separate Breakdown in this Section)	
		Ref	Transmission - Control Unit (See Separate Breakdown in this Section)	
		Ref	Transmission - Valve Housing Assembly (See Separate Breakdown in this Section)	
		Ref	Transmission - Valve Block Assembly (See Separate Breakdown in this Section)	
		Ref	Transmission - Oil Pump and Filter (See Separate Breakdown in this Section)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-3. TRANSMISSION, ENGINE CONNECTION AND CONVERTER



ART_8841036_2-C

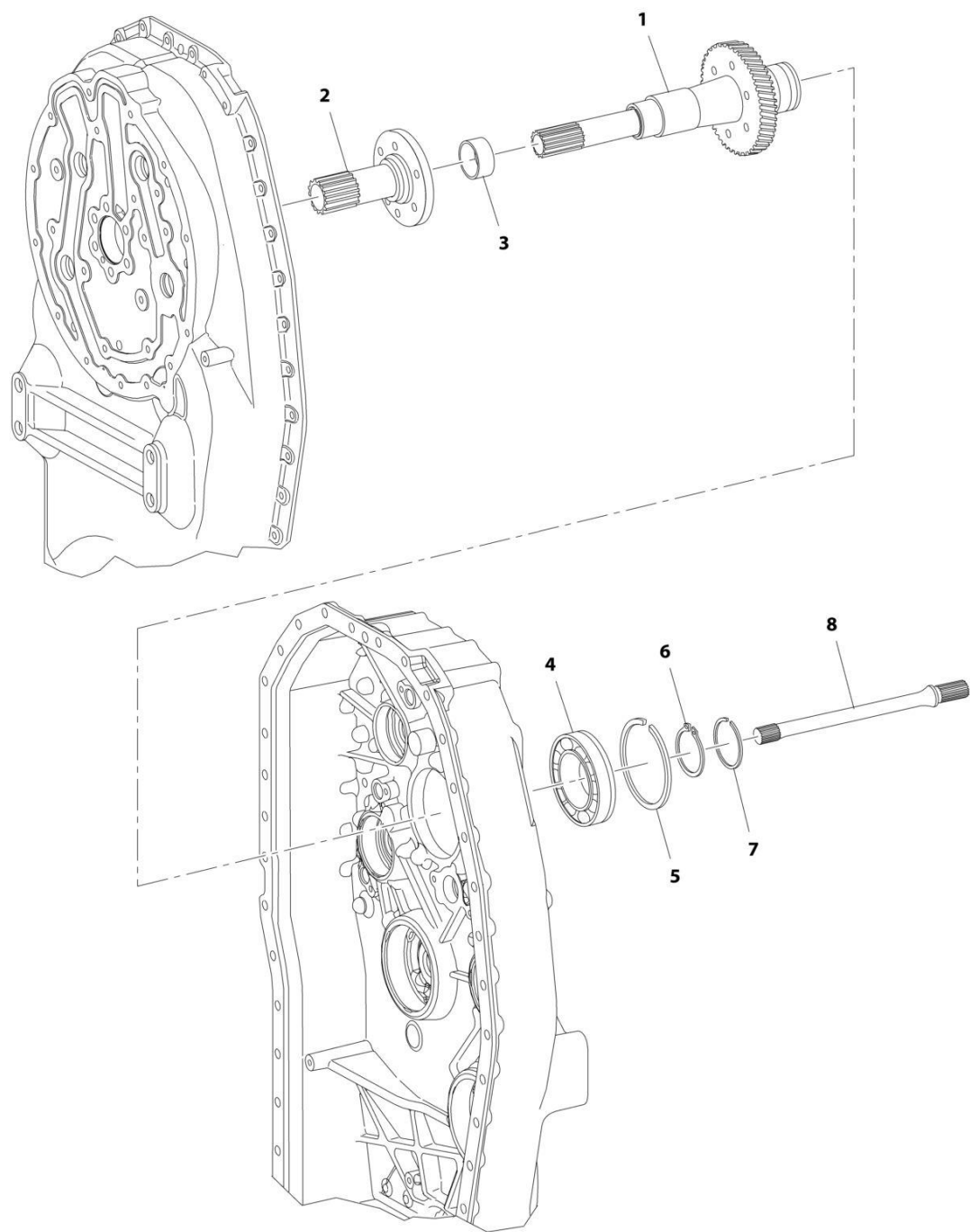
SECTION 5 - DRIVE TRAIN

FIGURE 5-3. TRANSMISSION, ENGINE CONNECTION AND CONVERTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - ENGINE CONNECTION AND CONVERTER	
1	1319203	1	Diaphragm	
2	1319204	4	Bolt, M10X18	
3	10732095	4	Washer	
4	10731702	8	Bolt, M10X16	
5	1319213	1	Washer	
6	70023482	1	Shaft, Input	
7	1319209	1	Bearing, Ball	
8	1319210	1	Ring, Retaining	
9	8036021	1	Cover	
10	8036022	1	Converter	
11	10731748	12	Bolt, M10X45	
12	10731751	12	Nut, M10	
13	1319211	1	Yoke, End	
14	1319205	1	Washer	
15	70023483	2	Bolt	

SECTION 5 - DRIVE TRAIN

FIGURE 5-4. TRANSMISSION, INPUT SHAFTS



ART_8841036_3-C

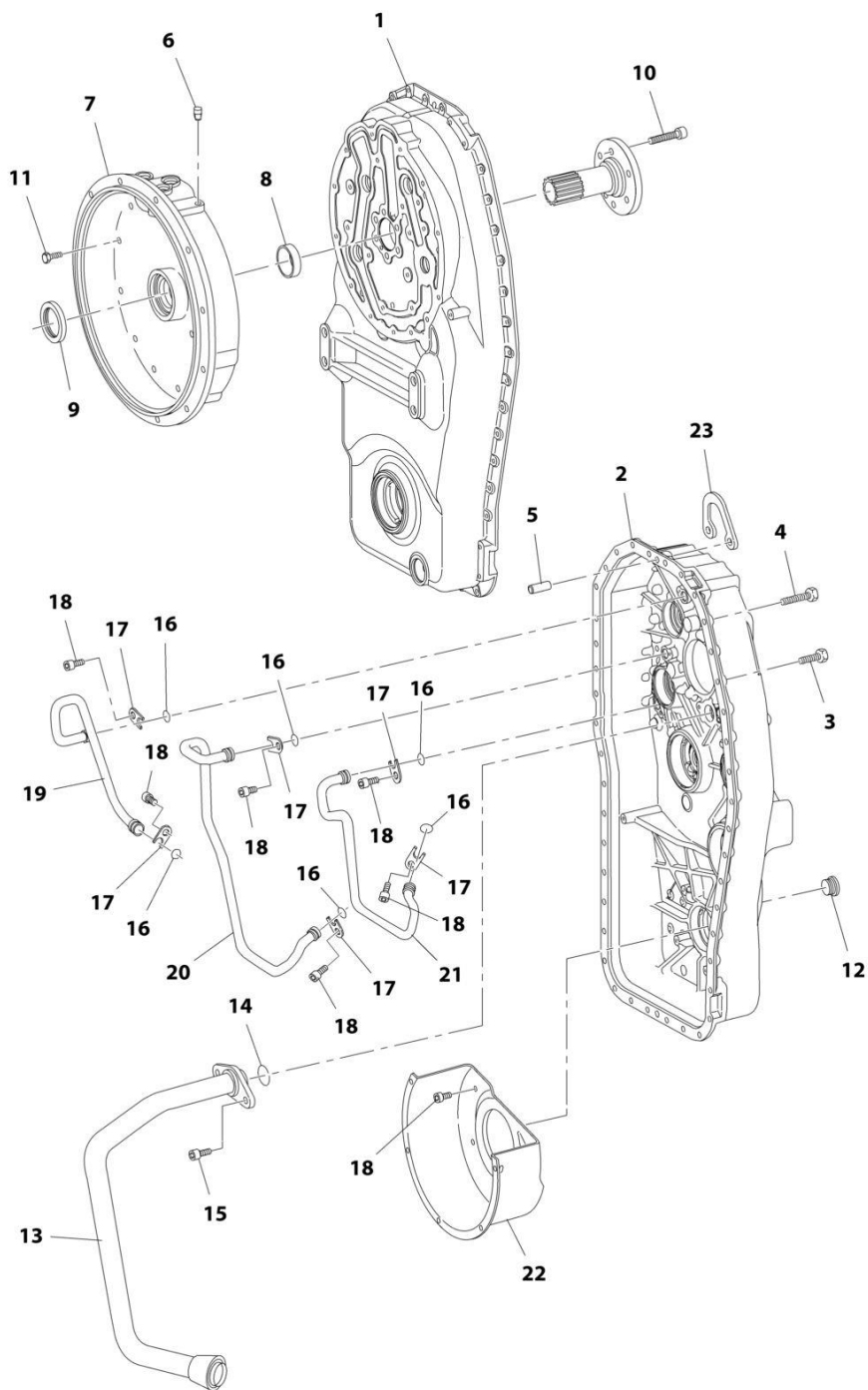
SECTION 5 - DRIVE TRAIN

FIGURE 5-4. TRANSMISSION, INPUT SHAFTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - INPUT SHAFTS	
1	8036023	1	Shaft, Turbine	
2	1319557	1	Shaft, Stator	
3	1319558	1	Bushing, Bearing	
4	1319563	1	Bearing, Ball	
5	10731913	1	Ring, Snap	
6	80304405	1	Ring, Retaining	
7	1319565	1	Ring, Piston	
8	1319566	1	Shaft, Central	

SECTION 5 - DRIVE TRAIN

FIGURE 5-5. TRANSMISSION, GEARBOX HOUSING



ART_8841036_4-C

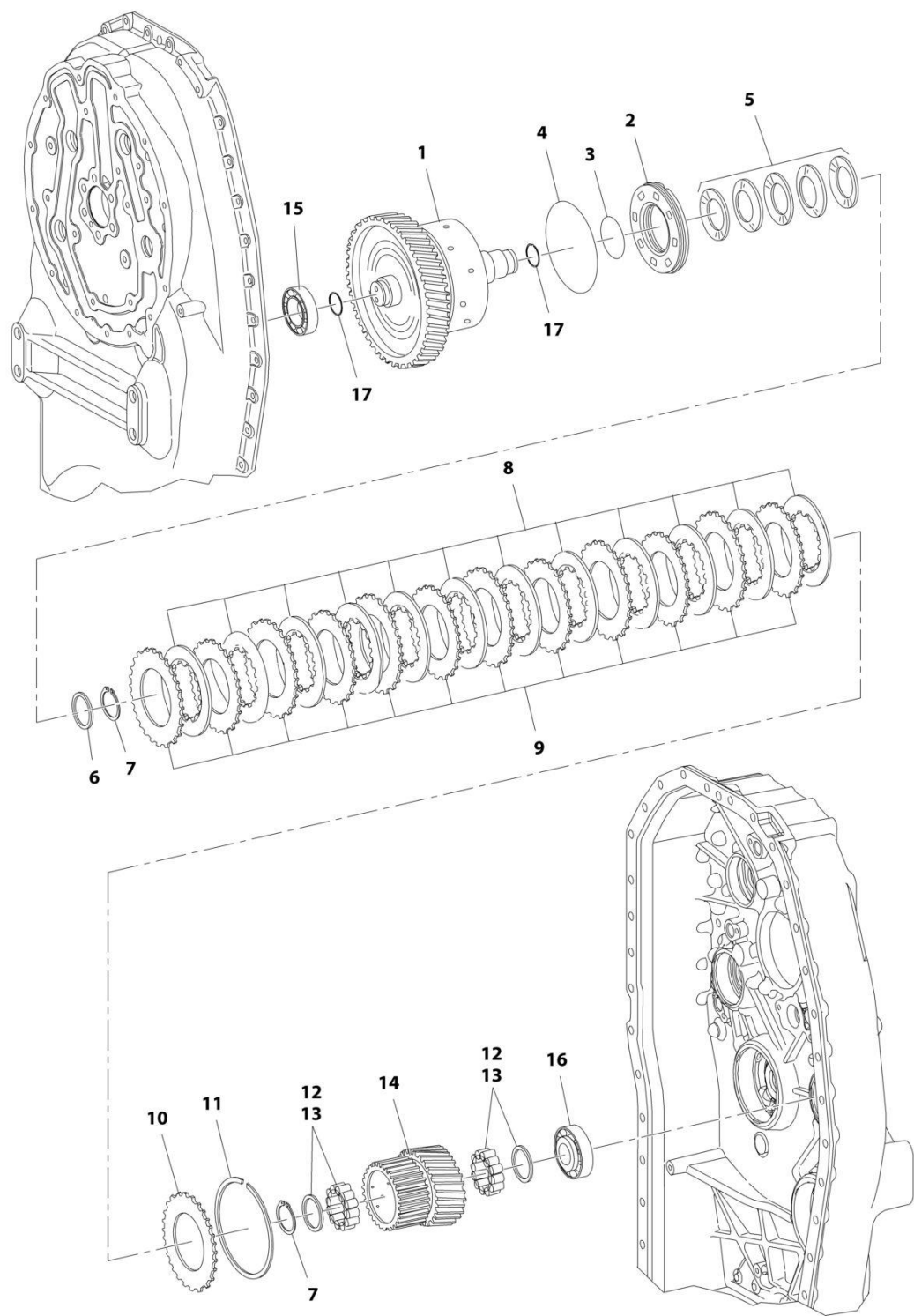
SECTION 5 - DRIVE TRAIN

FIGURE 5-5. TRANSMISSION, GEARBOX HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - GEARBOX HOUSING	
1	8036024	1	Housing I	
2	8036025	1	Housing II	
3	1319569	36	Bolt, M10X30	
4	1319570	6	Bolt, M10X50	
5	1319571	2	Pin, Cylindrical M6X24	
6	10731744	1	Breather	
7	1319574	1	Bell, Converter	
8	1319575	1	Bushing, Bearing	
9	1319576	1	Seal, Shaft	
10	1319577	6	Screw, M10X50	
11	1319569	23	Bolt, M10X30	
12	70023404	1	Plug, Screw	
13	8036026	1	Pipe, Oil Suction	
14	70023885	1	O-Ring	
15	1319582	2	Screw, M8X20	
16	1319583	6	O-Ring	
17	1319584	6	Plate, Fixing	
18	1319585	11	Screw, M8X16	
19	1319586	1	Pipe	
20	1319587	1	Pipe	
21	8036027	1	Pipe	
22	8036028	1	Sheet, Screen	
23	1319590	1	Bracket	

SECTION 5 - DRIVE TRAIN

FIGURE 5-6. TRANSMISSION, COUPLING GROUP 1



ART_8841036_5-C

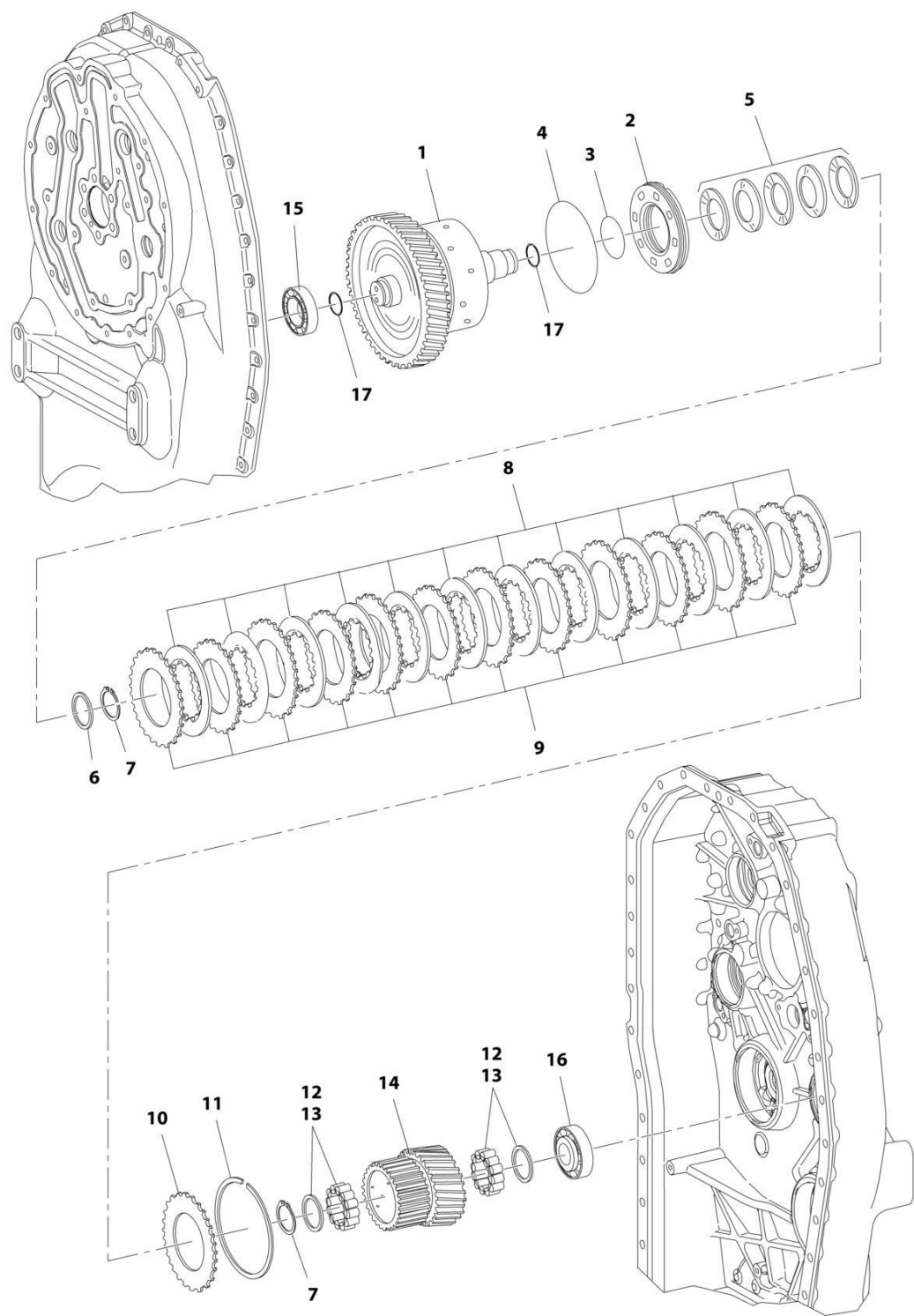
SECTION 5 - DRIVE TRAIN

FIGURE 5-6. TRANSMISSION, COUPLING GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - COUPLING GROUP 1	
1	1319591	1	Coupling	
2	1319592	1	Piston	
3	1319593	1	O-Ring, 52X3	
4	1319594	1	O-Ring, 115X3	
5	1319595	5	Spring, Cup	
6	1319596	1	Shim	
7	10731845	2	Ring, Retaining	
8	7026758	12	Disc, Inner Clutch	
9	7026759	12	Disc, Outer Clutch	
10	7026760	1	Shim, End	
11	1319600	1	Ring, Snap 4	
11	1319601	1	Ring, Snap 3-1/2	
11	1319602	1	Ring, Snap 3	
11	1319603	1	Ring, Snap 2-1/2	
11	1319604	1	Ring, Snap 2	
12	1319605	2	Cage, Roller	
13	1319606	2	Cage, Roller	
14	1319607	1	Carrier, Disc	
15	1319608	1	Bearing, Roller	
16	1319609	1	Bearing, Roller	
16	1319610	1	Bearing, Roller	
16	1319611	1	Bearing, Roller	
17	1319612	2	Ring, Piston 30X2	

SECTION 5 - DRIVE TRAIN

FIGURE 5-7. TRANSMISSION, COUPLING GROUP 2



ART_8841036_6-C

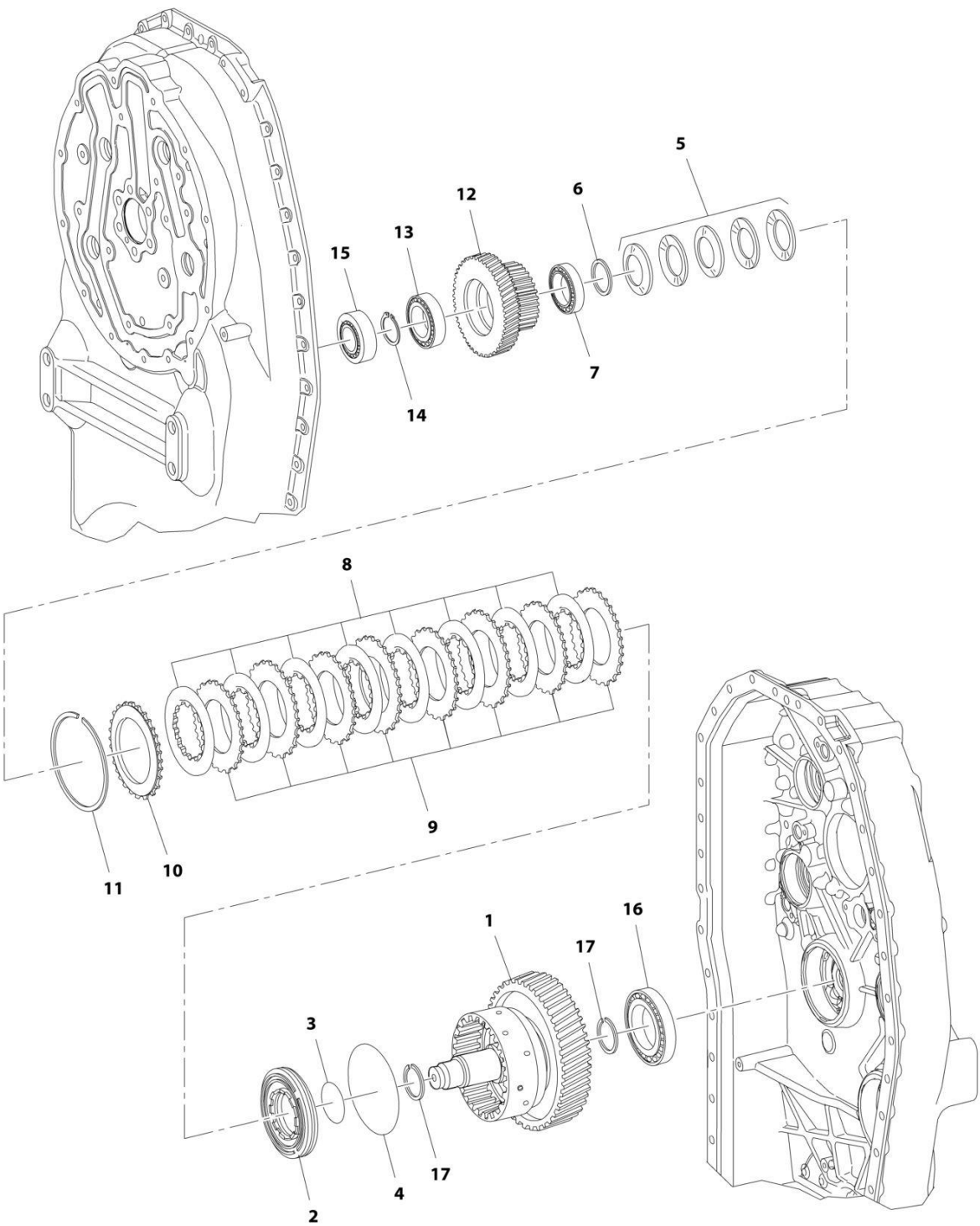
SECTION 5 - DRIVE TRAIN

FIGURE 5-7. TRANSMISSION, COUPLING GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - COUPLING GROUP 2	
1	1319613	1	Coupling	
2	8036029	1	Piston	
3	1319593	1	O-Ring, 52X3	
4	1319594	1	O-Ring, 115X3	
5	1319595	5	Spring, Cup	
6	1319596	1	Shim	
7	10731845	2	Ring, Retaining	
8	7026758	8	Disc, Inner Clutch	
9	7026759	8	Disc, Outer Clutch	
10	7026760	1	Shim, End	
11	1319600	1	Ring, Snap 4	
11	1319601	1	Ring, Snap 3-1/2	
11	1319602	1	Ring, Snap 3	
11	1319603	1	Ring, Snap 2-1/2	
11	1319604	1	Ring, Snap 2	
12	1319605	2	Cage, Roller	
13	1319606	2	Cage, Roller	
14	1319614	1	Carrier, Disc	
15	1319615	1	Bearing, Roller	
16	8036190	1	Assembly, Roller Bearing	
16	7029532	1	Ring, Outer	
16	7029533	1	Ring, Inner	
17	1319612	2	Ring, Piston 30X2	

SECTION 5 - DRIVE TRAIN

FIGURE 5-8. TRANSMISSION, COUPLING GROUP 3



ART_8841036_7-C

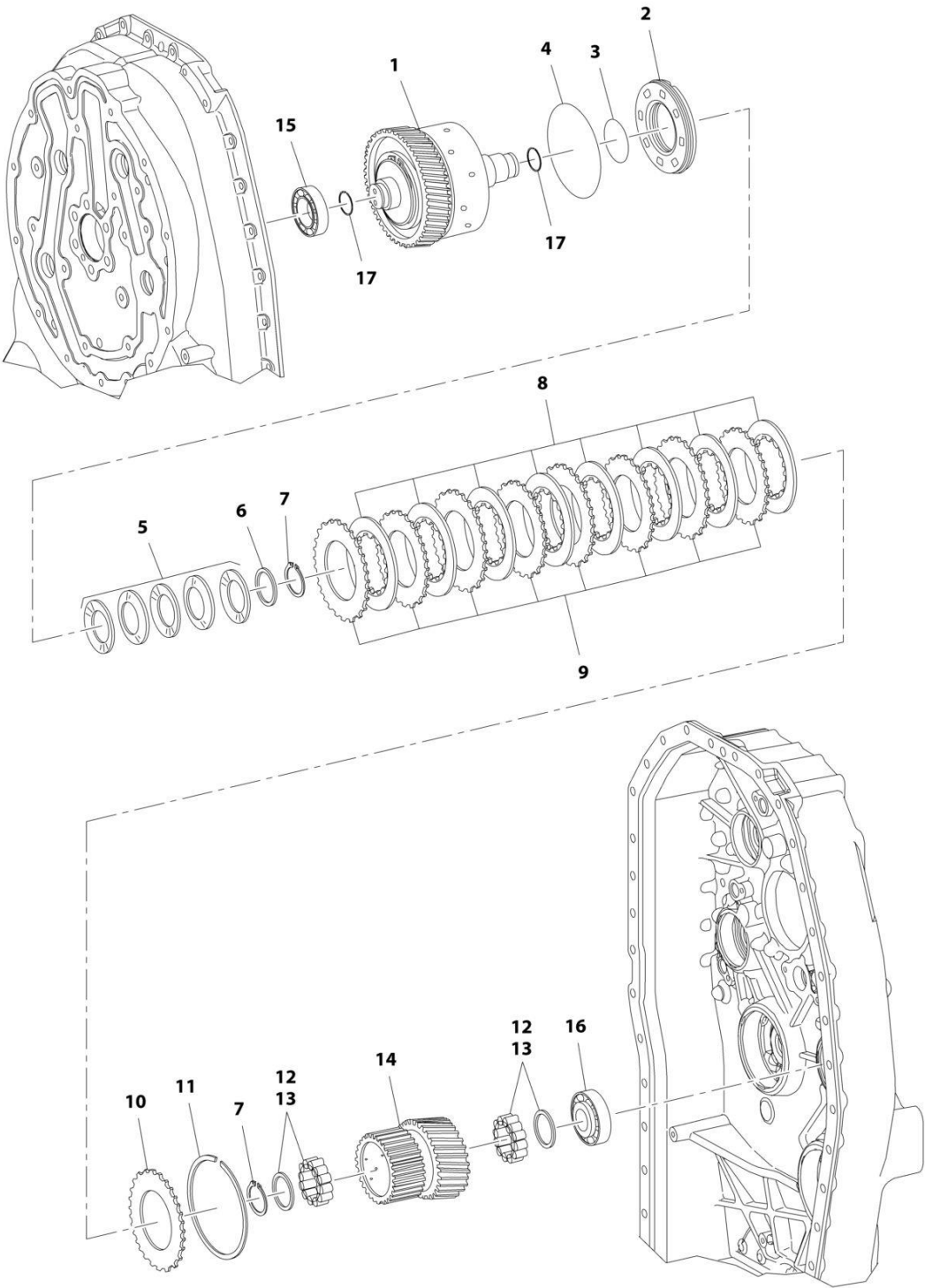
SECTION 5 - DRIVE TRAIN

FIGURE 5-8. TRANSMISSION, COUPLING GROUP 3

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - COUPLING GROUP 3	
1	1319616	1	Coupling	
2	8036029	1	Piston	
3	1319593	1	O-Ring, 52X3	
4	1319594	1	O-Ring, 115X3	
5	1319595	5	Spring, Cup	
6	1319617	1	Shim, Support	
7	1319618	1	Bearing, Roller	
8	7026758	8	Disc, Inner Clutch	
9	7026759	8	Disc, Outer Clutch	
10	7026760	1	Shim, End	
11	1319600	1	Ring, Snap 4	
11	1319601	1	Ring, Snap 3-1/2	
11	1319602	1	Ring, Snap 3	
11	1319603	1	Ring, Snap 2-1/2	
11	1319604	1	Ring, Snap 2	
12	1319619	1	Carrier, Disc	
13	1319620	1	Bearing, Roller	
14	1319621	1	Ring, Retaining 3.2	
14	1319622	1	Ring, Retaining 3.1	
14	1319623	1	Ring, Retaining 3	
14	1319624	1	Ring, Retaining 2.9	
14	1319625	1	Ring, Retaining 2.8	
14	1319626	1	Ring, Retaining 2.7	
14	1319627	1	Ring, Retaining 2.6	
14	1319628	1	Ring, Retaining 2.5	
14	1319629	1	Ring, Retaining 2.4	
14	1319630	1	Ring, Retaining 2.3	
14	1319631	1	Ring, Retaining 2.2	
14	1319632	1	Ring, Retaining 2.1	
15	8036190	1	Assembly, Roller Bearing	
15	7029532	1	Ring, Outer	
15	7029533	1	Ring, Inner	
16	1319633	1	Bearing, Roller	
17	1319612	2	Ring, Piston 30X2	

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FIGURE 5-9. TRANSMISSION, COUPLING GROUP 4



ART_8841036_8-C

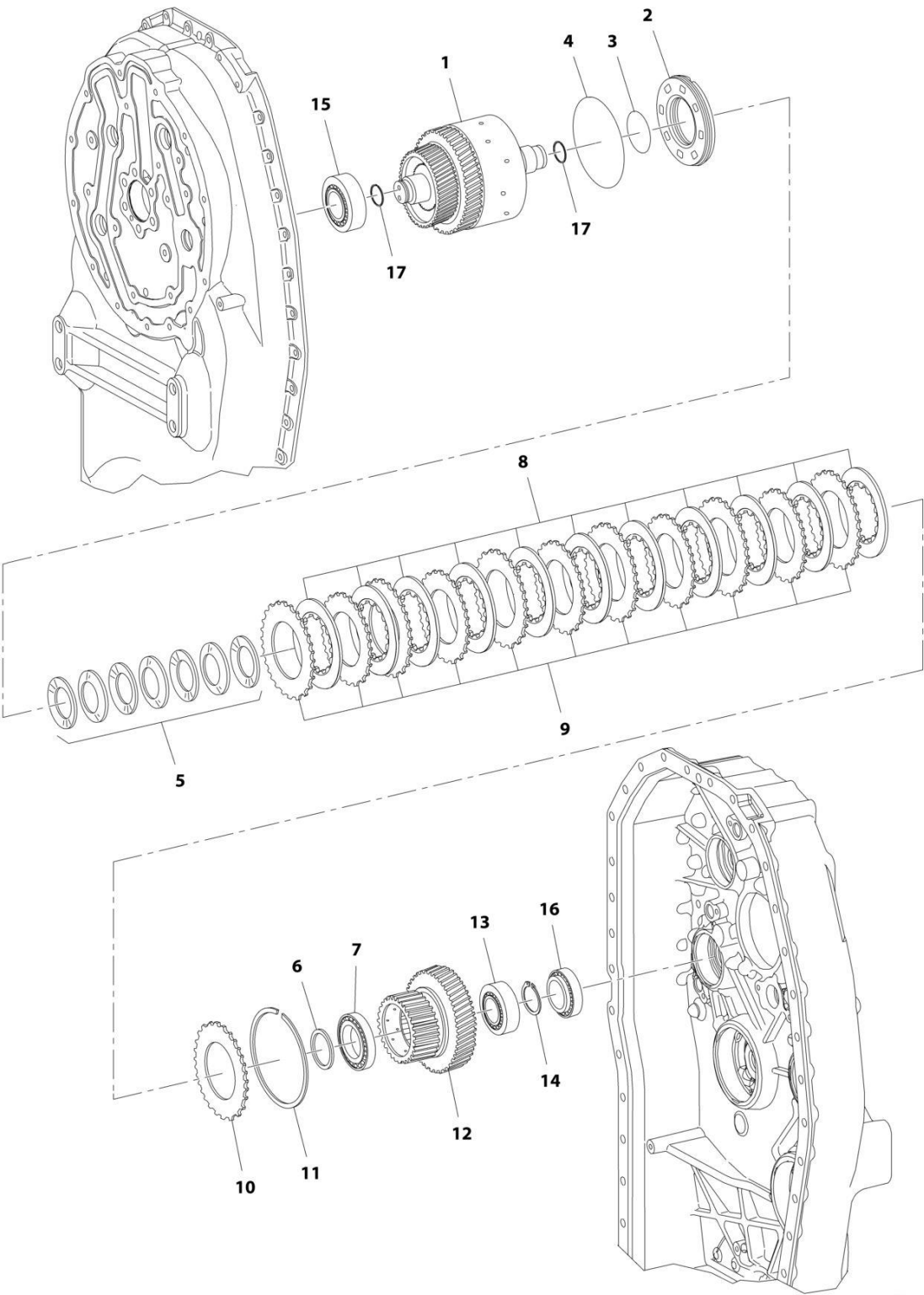
SECTION 5 - DRIVE TRAIN

FIGURE 5-9. TRANSMISSION, COUPLING GROUP 4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - COUPLING GROUP 4	
1	1319634	1	Coupling	
2	8036029	1	Piston	
3	1319593	1	O-Ring, 52X3	
4	1319594	1	O-Ring, 115X3	
5	1319595	5	Spring, Cup	
6	1319596	1	Shim	
7	10731845	2	Ring, Retaining	
8	7026758	8	Disc, Inner Clutch	
9	7026759	8	Disc, Outer Clutch	
10	7026760	1	Shim, End	
11	1319600	1	Ring, Snap 4	
11	1319601	1	Ring, Snap 3-1/2	
11	1319602	1	Ring, Snap 3	
11	1319603	1	Ring, Snap 2-1/2	
11	1319604	1	Ring, Snap 2	
12	1319605	2	Cage, Roller	
13	1319606	2	Cage, Roller	
14	1319635	1	Carrier, Disc	
15	1319615	1	Bearing, Roller	
16	1319636	1	Bearing, Roller	
17	1319612	2	Ring, Piston 30X2	

SECTION 5 - DRIVE TRAIN

FIGURE 5-10. TRANSMISSION, REVERSING GEAR GROUP 1



ART_8841036_9-C

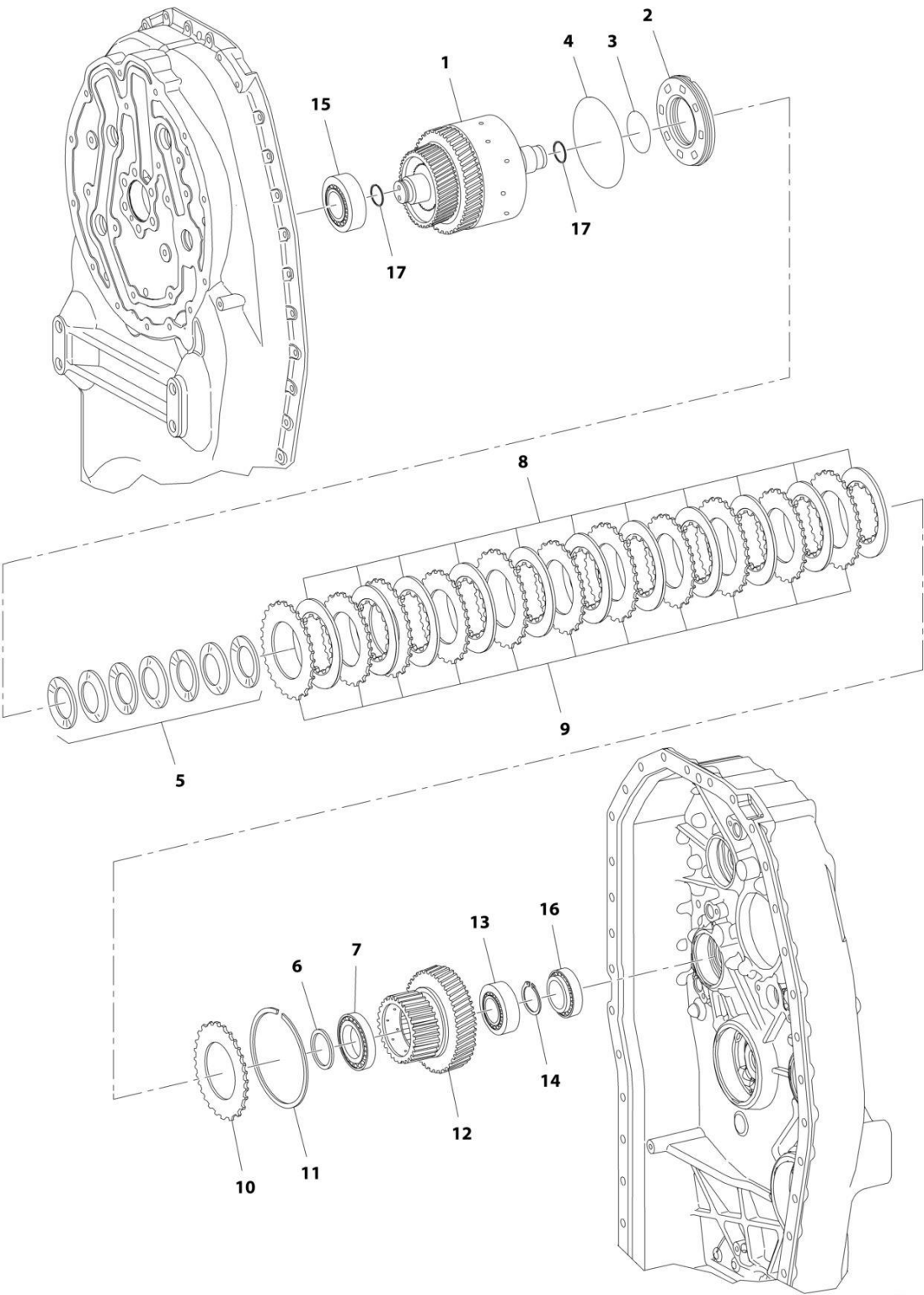
SECTION 5 - DRIVE TRAIN

FIGURE 5-10. TRANSMISSION, REVERSING GEAR GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - REVERSE GEAR GROUP 1	
1	1319637	1	Coupling	
2	8036029	1	Piston	
3	1319593	1	O-Ring, 52X3	
4	1319594	1	O-Ring, 115X3	
5	1319595	7	Spring, Cup	
6	1319617	1	Shim, Support	
7	1319618	1	Bearing, Roller	
8	7026758	11	Disc, Inner Clutch	
9	7026759	11	Disc, Outer Clutch	
10	7026760	1	Shim, End	
11	1319600	1	Ring, Snap 4	
11	1319601	1	Ring, Snap 3-1/2	
11	1319602	1	Ring, Snap 3	
11	1319603	1	Ring, Snap 2-1/2	
11	1319604	1	Ring, Snap 2	
12	1319638	1	Disc, Carrier	
13	1319620	1	Bearing, Roller	
14	1319621	1	Ring, Retaining 3.2	
14	1319622	1	Ring, Retaining 3.1	
14	1319623	1	Ring, Retaining 3	
14	1319624	1	Ring, Retaining 2.9	
14	1319625	1	Ring, Retaining 2.8	
14	1319626	1	Ring, Retaining 2.7	
14	1319627	1	Ring, Retaining 2.6	
14	1319628	1	Ring, Retaining 2.5	
14	1319629	1	Ring, Retaining 2.4	
14	1319630	1	Ring, Retaining 2.3	
14	1319631	1	Ring, Retaining 2.2	
14	1319632	1	Ring, Retaining 2.1	
15	1319615	1	Bearing, Roller	
16	1319636	1	Bearing, Roller	
17	1319612	2	Ring, Piston 30X2	

SECTION 5 - DRIVE TRAIN

FIGURE 5-11. TRANSMISSION, REVERSING GEAR GROUP 2



ART_8841036_10-C

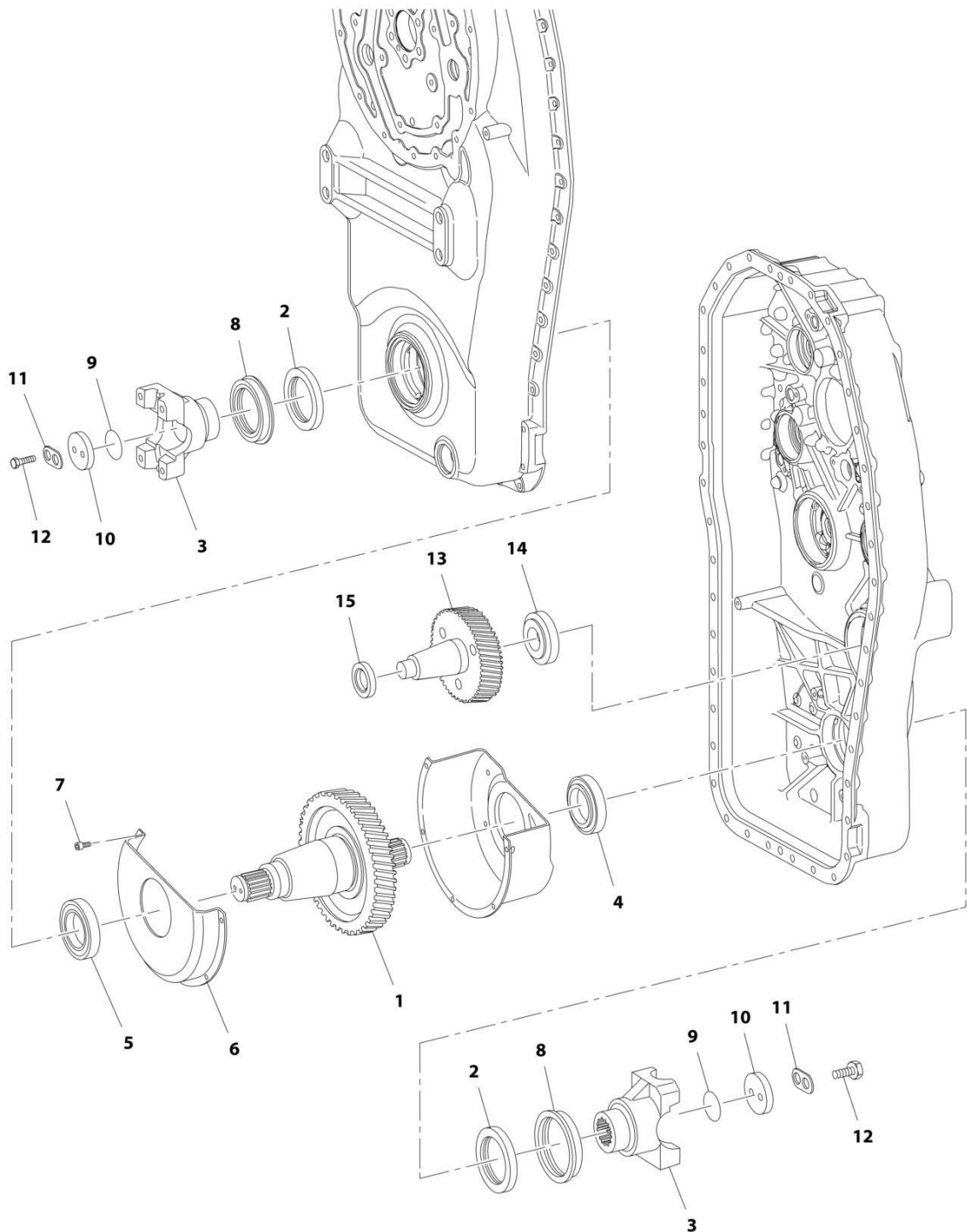
SECTION 5 - DRIVE TRAIN

FIGURE 5-11. TRANSMISSION, REVERSING GEAR GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - REVERSING GEAR GROUP 2	
1	1319639	1	Coupling	
2	8036029	1	Piston	
3	1319593	1	O-Ring, 52X3	
4	1319594	1	O-Ring, 115X3	
5	1319595	7	Spring, Cup	
6	1319617	1	Shim, Support	
7	1319618	1	Bearing, Roller	
8	7026758	11	Disc, Inner Clutch	
9	7026759	11	Disc, Outer Clutch	
10	7026760	1	Shim, End	
11	1319600	1	Ring, Snap 4	
11	1319601	1	Ring, Snap 3-1/2	
11	1319602	1	Ring, Snap 3	
11	1319603	1	Ring, Snap 2-1/2	
11	1319604	1	Ring, Snap 2	
12	1319638	1	Disc, Carrier	
13	1319620	1	Bearing, Roller	
14	1319621	1	Ring, Retaining 3.2	
14	1319622	1	Ring, Retaining 3.1	
14	1319623	1	Ring, Retaining 3	
14	1319624	1	Ring, Retaining 2.9	
14	1319625	1	Ring, Retaining 2.8	
14	1319626	1	Ring, Retaining 2.7	
14	1319627	1	Ring, Retaining 2.6	
14	1319628	1	Ring, Retaining 2.5	
14	1319629	1	Ring, Retaining 2.4	
14	1319630	1	Ring, Retaining 2.3	
14	1319631	1	Ring, Retaining 2.2	
14	1319632	1	Ring, Retaining 2.1	
15	1319608	1	Bearing, Roller	
16	1319636	1	Bearing, Roller	
17	1319612	2	Ring, Piston 30X2	

SECTION 5 - DRIVE TRAIN

FIGURE 5-12. TRANSMISSION, OUTPUT



ART_8841036_11-C

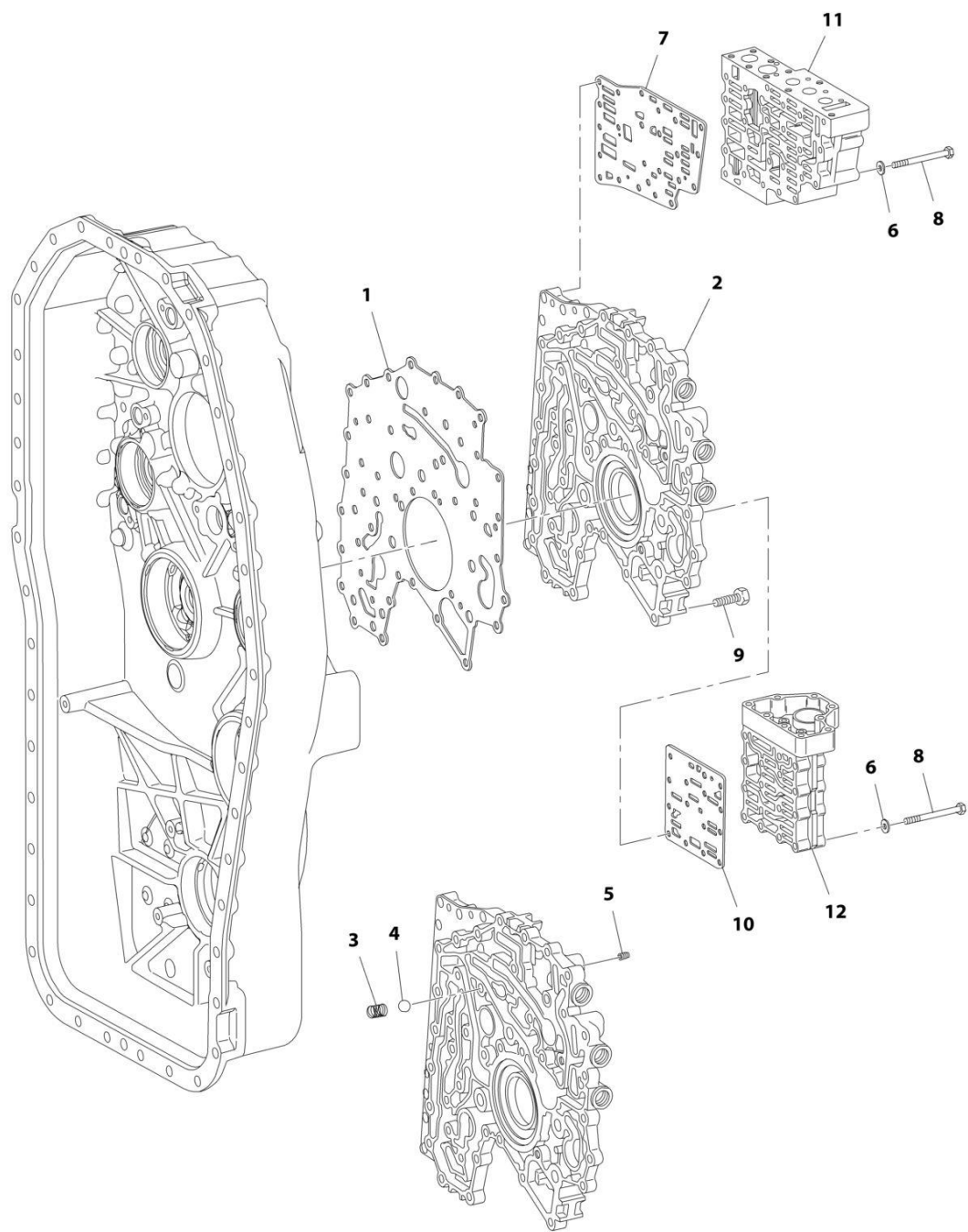
SECTION 5 - DRIVE TRAIN

FIGURE 5-12. TRANSMISSION, OUTPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - OUTPUT	
1	8036030	1	Shaft, Output	
2	1319641	2	Seal, Shaft	
3	7027273	2	Flange, Output	
4	N.S.S.	1	Assembly, Roller Bearing	
4	70020430	1	Cup, Bearing	
4	70020431	1	Cone, Bearing	
5	1319643	1	Bearing, Roller	
6	8036031	1	Sheet, Screen	
7	1319646	5	Bolt, M6X10	
8	1319647	2	Sheet, Screen	
9	10839156	2	O-Ring	
10	1319648	2	Washer, M10	
11	1319649	2	Washer, Tab	
12	10731959	4	Bolt, M8X25	
13	8036032	1	Shaft, Intermediate	
14	1319633	1	Bearing, Roller	
15	8036190	1	Assembly, Roller Bearing	
15	7029532	1	Ring, Outer	
15	7029533	1	Ring, Inner	

SECTION 5 - DRIVE TRAIN

FIGURE 5-13. TRANSMISSION, CONTROL UNIT



ART_8841036_12-C

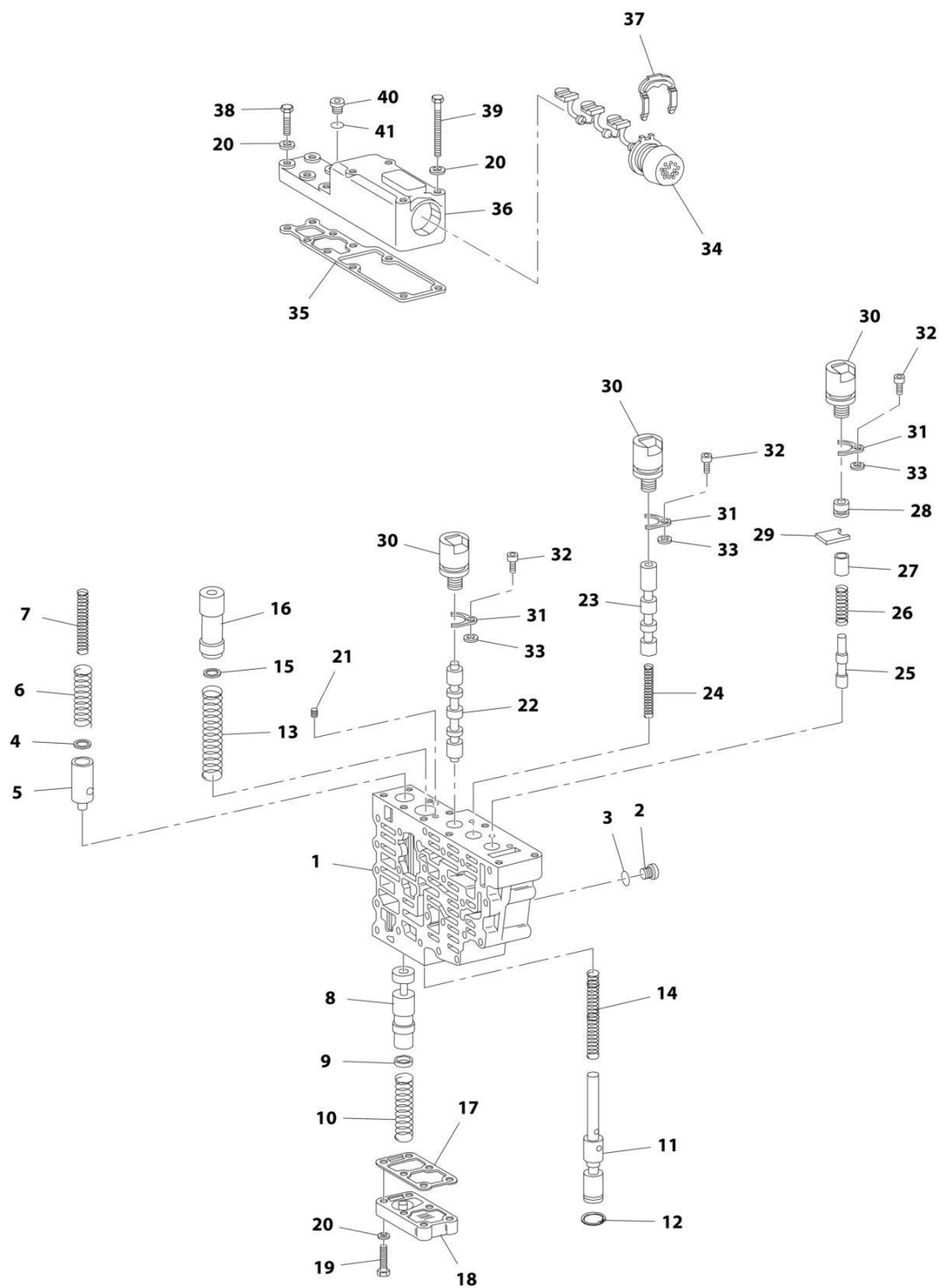
SECTION 5 - DRIVE TRAIN

FIGURE 5-13. TRANSMISSION, CONTROL UNIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - CONTROL UNIT	
1	1319650	1	Gasket	
2	8036033	1	Plate, Duct	
3	10732072	1	Spring, Compression	
4	10732071	1	Ball	
5	1319652	1	Orifice	
6	1319661	19	Washer, 6.4	
7	70020425	1	Plate, Intermediate	
8	7029037	19	Bolt, M6X60	
9	1319659	43	Screw, Torx M8X30	
10	70020426	1	Plate, Intermediate	
11		Ref	Housing, Valve (See Separate Breakdown in this Section)	
12		Ref	Block, Valve (See Separate Breakdown in this Section)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-14. TRANSMISSION, VALVE HOUSING ASSEMBLY



ART_8841036_13-C

SECTION 5 - DRIVE TRAIN

FIGURE 5-14. TRANSMISSION, VALVE HOUSING ASSEMBLY

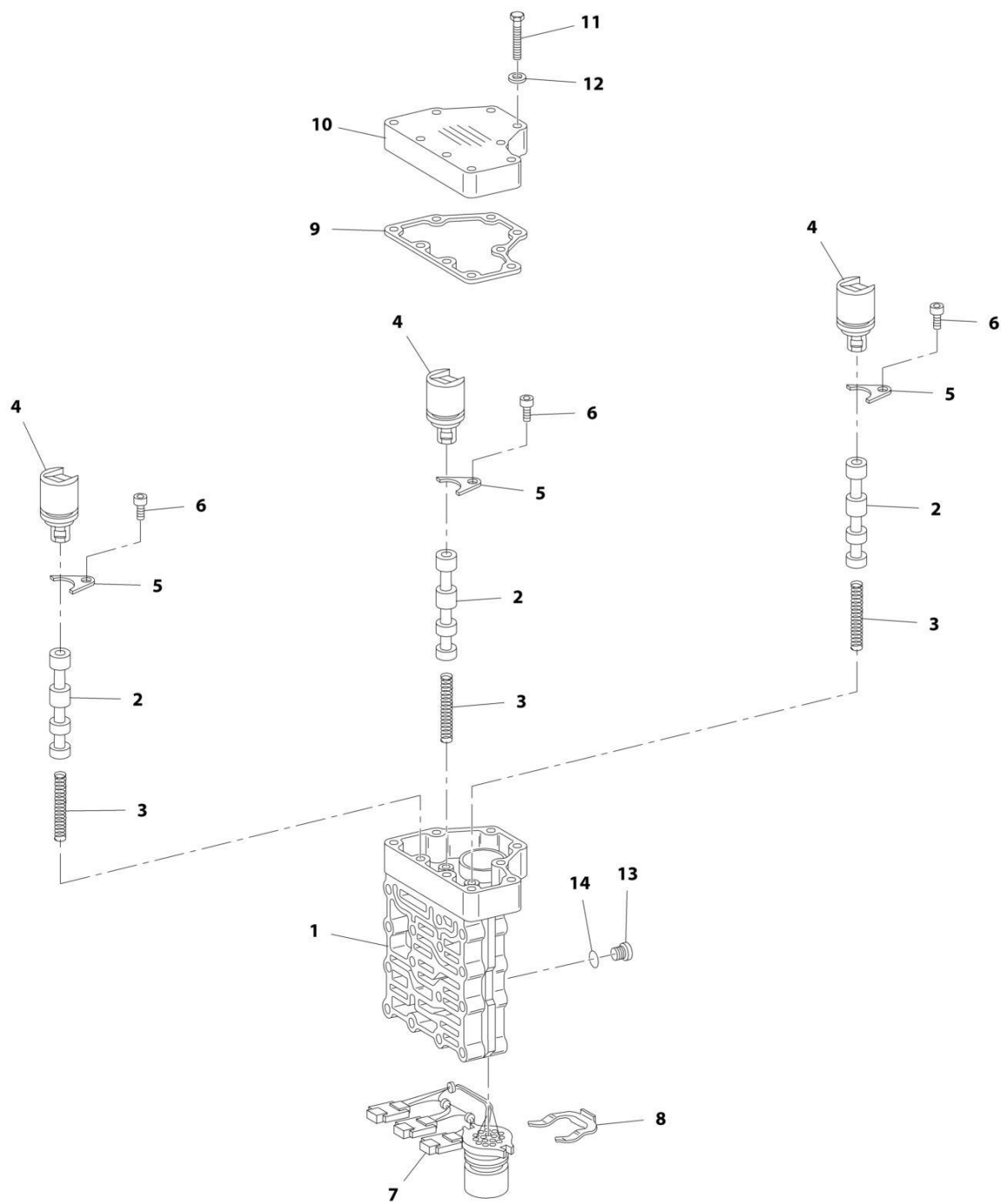
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - VALVE HOUSING ASSEMBLY	
	8036040	Ref	Valve Housing Assembly	
1	1319671	1	Housing, Valve	
2	1319670	7	Plug, Screw M10X1	
3	10731709	7	O-Ring	
4	8036036	1	Washer, 1	
5	7029039	1	Piston	
6	1319673	1	Spring, Compression	
7	8036038	1	Spring, Compression	
8	1319674	1	Piston	
9	1319675	1	Washer, 3.6	
9	1319676	1	Washer, 3.2	
9	1319677	1	Washer, 2.8	
9	1319678	1	Washer, 2.4	
9	1319679	1	Washer, 2	
10	1319680	1	Spring, Compression	
11	1319681	1	Control, Piston	
12	1319682	1	Washer, Lock 12	
13	1319683	1	Spring, Compression	
14	1319684	1	Spring, Compression	
15	1319685	1	Washer, 2	
15	1319686	1	Washer, 1	
15	1319687	1	Washer, 0.5	
15	1319688	1	Washer, 0.3	
15	1319689	1	Washer, 0.2	
16	1319690	1	Piston	
17	1319691	1	Seal	
18	1319692	1	Cover	
19	1319693	6	Bolt, M6X25	
20	1319661	16	Washer, 6.4	
21	1319652	1	Orifice	
22	1319694	1	Valve	
23	1319695	1	Piston	
24	1319696	1	Spring, Compression	
25	1319697	1	Piston	
26	1319698	1	Spring, Compression	
27	1319699	1	Spacer, Sleeve	
28	1319700	1	Plug	
29	1319701	1	Plate, Fixing	
30	1319702	3	Valve, Solenoid	
31	10732063	3	Plate, Fixing	
32	1319703	3	Bolt, M5X12	
33	10732064	3	Washer, 2	
34	1319704	1	Harness, Wiring	
35	1319705	1	Seal	
36	8036039	1	Cover	
37	1319707	1	Clamp, Retaining	
38	1319693	6	Bolt, M6X25	
39	7029037	4	Bolt, M6X60	
40	1319670	1	Plug, Screw M10X1	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	10731709	1	O-Ring	

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FIGURE 5-15. TRANSMISSION, VALVE BLOCK ASSEMBLY



ART_8841036_14-C

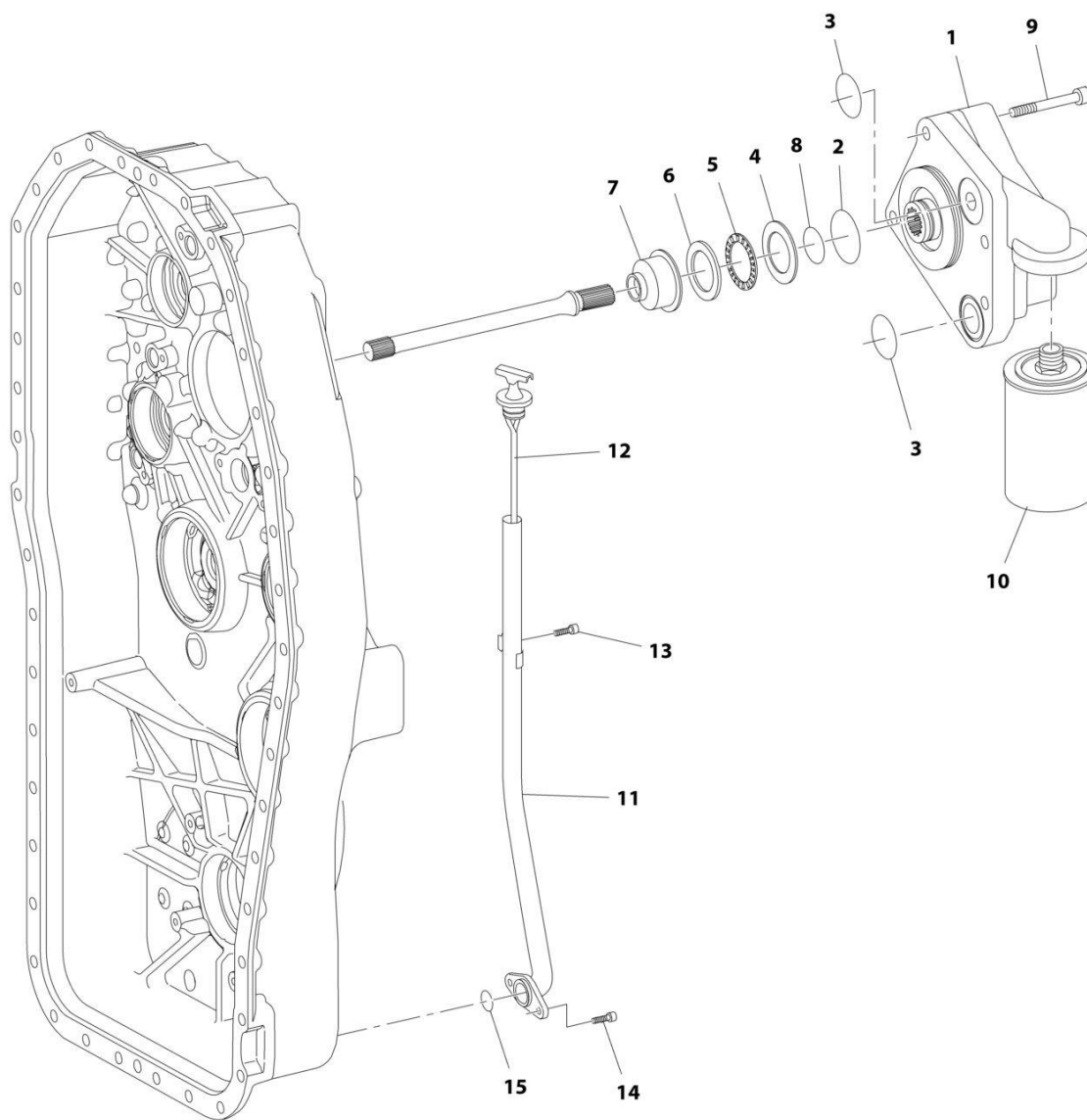
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FIGURE 5-15. TRANSMISSION, VALVE BLOCK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - VALVE BLOCK ASSEMBLY	
	1319717	Ref	Valve Block Assembly	
1	70020427	1	Block, Valve	
2	1319710	3	Piston	
3	1319696	3	Spring, Compression	
4	1319702	3	Valve, Solenoid	
5	10732063	3	Plate, Fixing	
6	1319703	3	Bolt, M5X12	
7	1319711	1	Harness, Wiring	
8	1319707	1	Clamp, Retaining	
9	1319712	1	Gasket	
10	1319713	1	Cover	
11	1319714	9	Bolt, M5X32	
12	1319715	9	Washer, 5.3	
13	1319670	3	Plug, Screw M10X1	
14	10731709	3	O-Ring	

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FIGURE 5-16. TRANSMISSION, OIL PUMP AND FILTER



ART_8841036_15-C

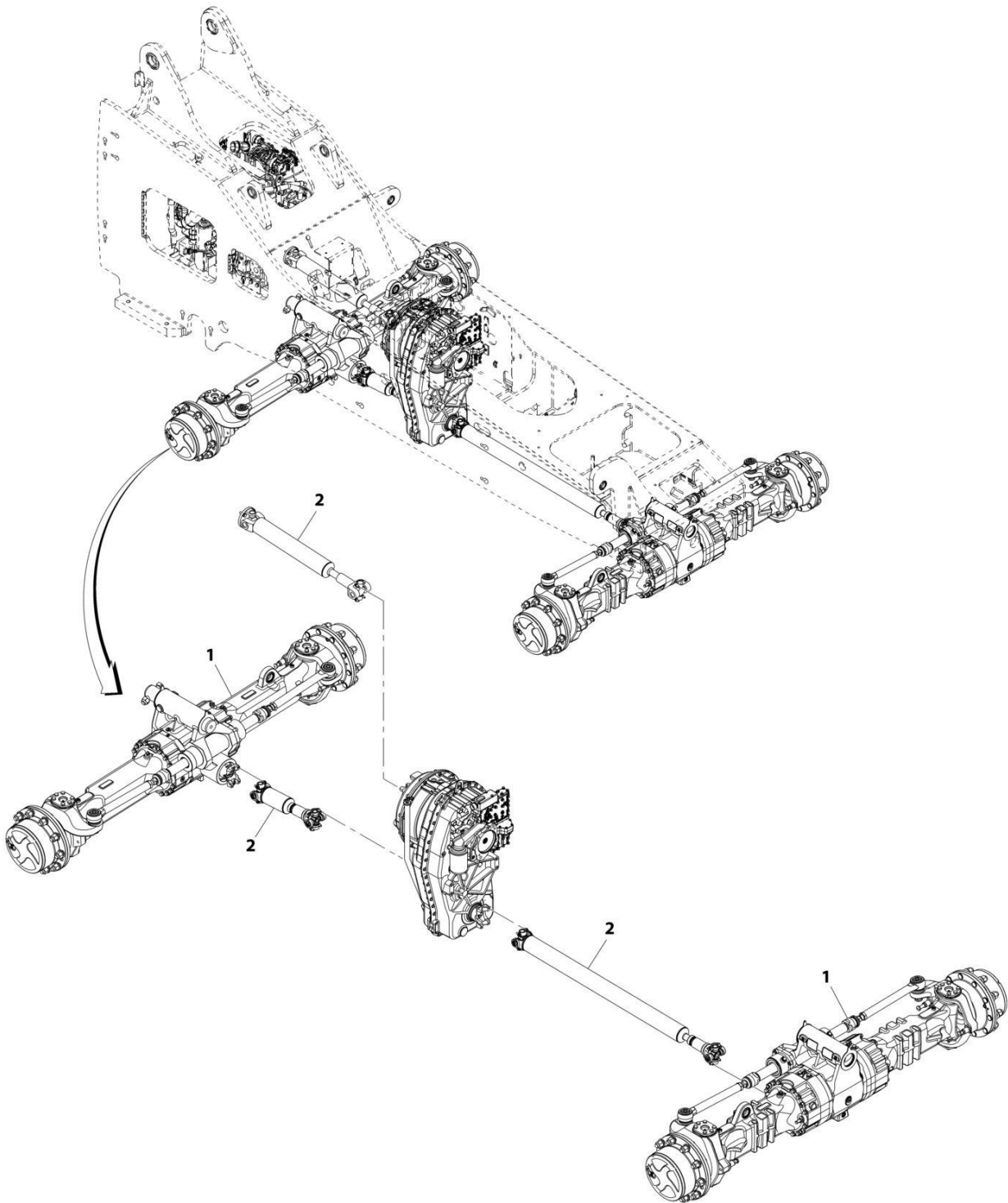
SECTION 5 - DRIVE TRAIN

FIGURE 5-16. TRANSMISSION, OIL PUMP AND FILTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841036	Ref	TRANSMISSION - OIL PUMP AND FILTER	
1	1319718	1	Pump	
1	7029417	1	O-Ring, (between pump halves), (not shown)	
2	8036250	1	O-Ring	
3	1319719	2	O-Ring	
4	1319720	1	Washer, Axial 40X60X1	
5	1319721	1	Cage, Axial Needle	
6	1319722	1	Disc, Angle	
7	1319723	1	Sleeve, Stop	
8	1319724	1	O-Ring	
9	1319725	4	Bolt, M12X115	
10	1319726	1	Filter, Transmission Oil	
11	8036041	1	Tube, Dipstick	
12	8036042	1	Dipstick	
13	1319585	1	Screw, M8X16	
14	1319582	1	Screw, M8X20	
15	70023885	1	O-Ring	

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FIGURE 5-17. DRIVETRAIN INSTALLATION



ART_1001242748-A

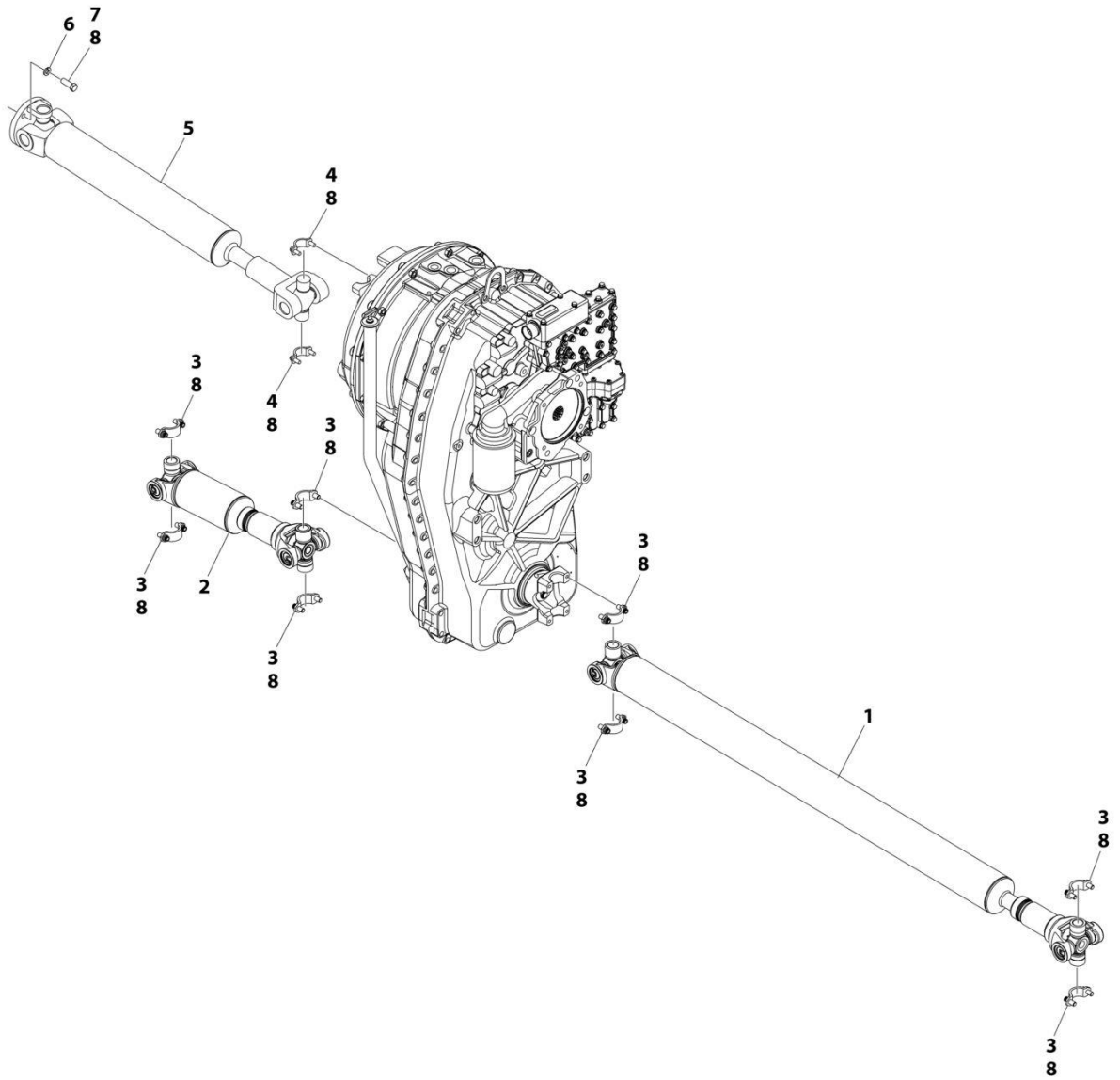
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FIGURE 5-17. DRIVETRAIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242748	Ref	Drivetrain Installation	A
1	1001242749	1	Installation, Axle (See Separate Breakdown in this Section)	
2	1001242750	1	Installation, Driveshafts (See Separate Breakdown in this Section)	

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FIGURE 5-18. DRIVESHAFTS INSTALLATION



ART_1001242750

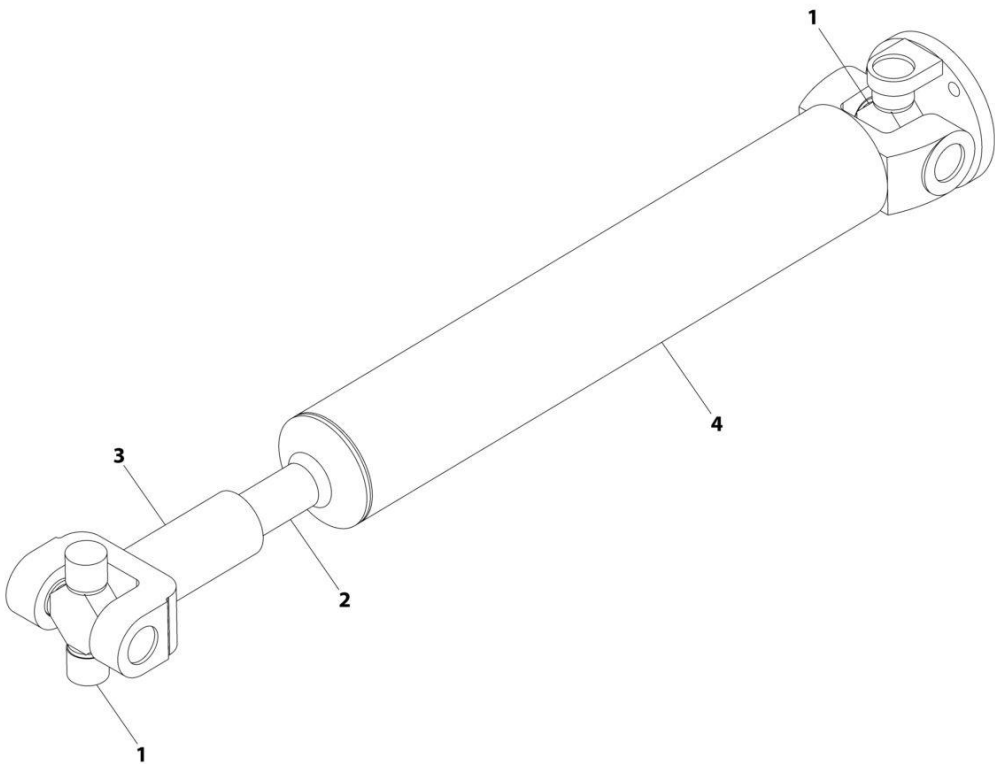
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FIGURE 5-18. DRIVESHAFTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242750	Ref	DRIVESHAFTS INSTALLATION	C
1	1001222870	1	Shaft, Front Drive	
2	1023036000	1	Shaft, Rear Drive	
3	8880218-OM	4	Strap Kit	
4	8880219-OM	1	Strap Kit	
5	1001127784	1	Shaft, Input (See Separate Breakdown in this Section)	
6	8307006	4	Washer	
7	8310425	4	Bolt 5/16 x 1-1/4 Grade 8	
8	0100011	AR	Compound, Locking	

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FIGURE 5-19. DRIVE SHAFT INPUT



ART_1001127784-C

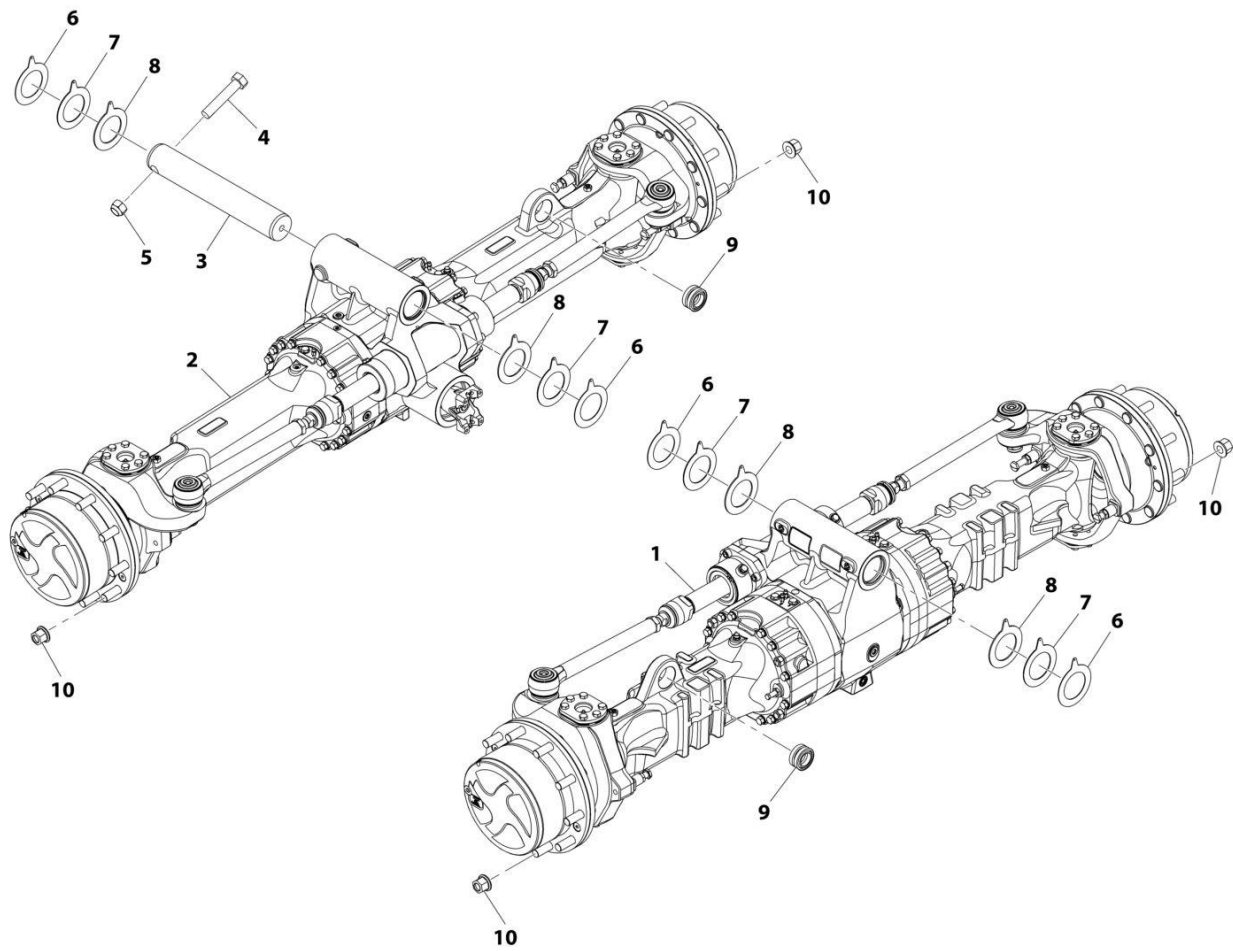
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FIGURE 5-19. DRIVE SHAFT INPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127784	Ref	Drive Shaft Input Assembly	C
1	1101841	2	Kit, Cross and Bearing	
2	8035109	1	Kit, Dust Cap	
3	See Note	NSS	Joint, Slip (Note: Purchase Complete Assembly)	
4	See Note	NSS	Shaft, Yoke (Note: Purchase Complete Assembly)	

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FIGURE 5-20. AXLE INSTALLATION



ART_1001242749-C

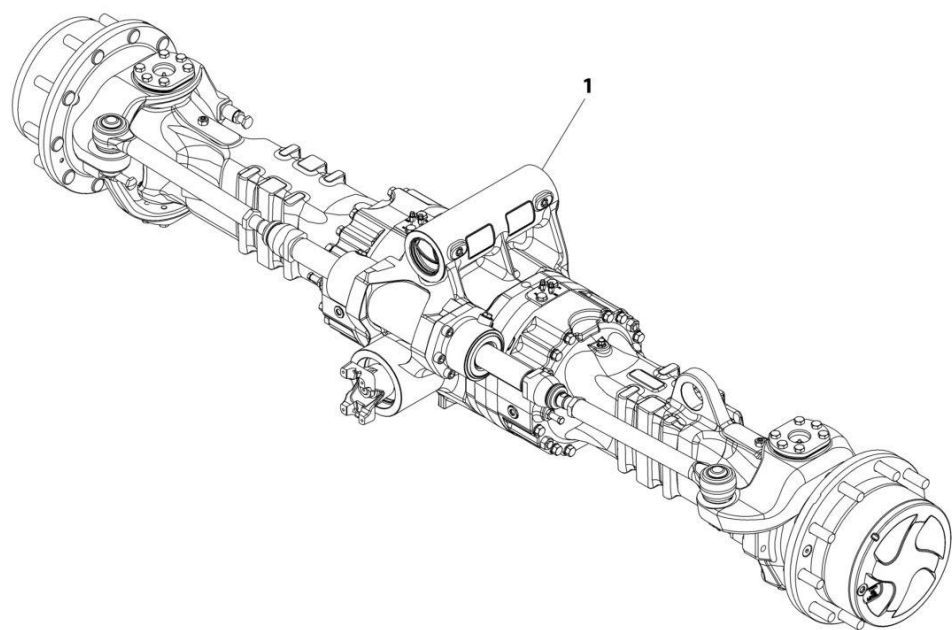
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FIGURE 5-20. AXLE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242749	Ref	Axle Installation	C
1	1005798200	1	Front Axle (See Separate Breakdown in this Section)	
2	1010278300	1	Rear Axle (See Separate Breakdown in this Section)	
3	3423254	1	Pin	
4	0642640	1	Bolt	
5	8310116	1	Nut	
6	1001245213	AR	Shim	
7	1001245214	AR	Shim	
8	1001245215	AR	Shim	
9	8050001	2	Bearing, Self-Align	
10	91403193	40	Nut M22 x 1-1/2	

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FIGURE 5-21. FRONT AXLE



ART_1005798200_E

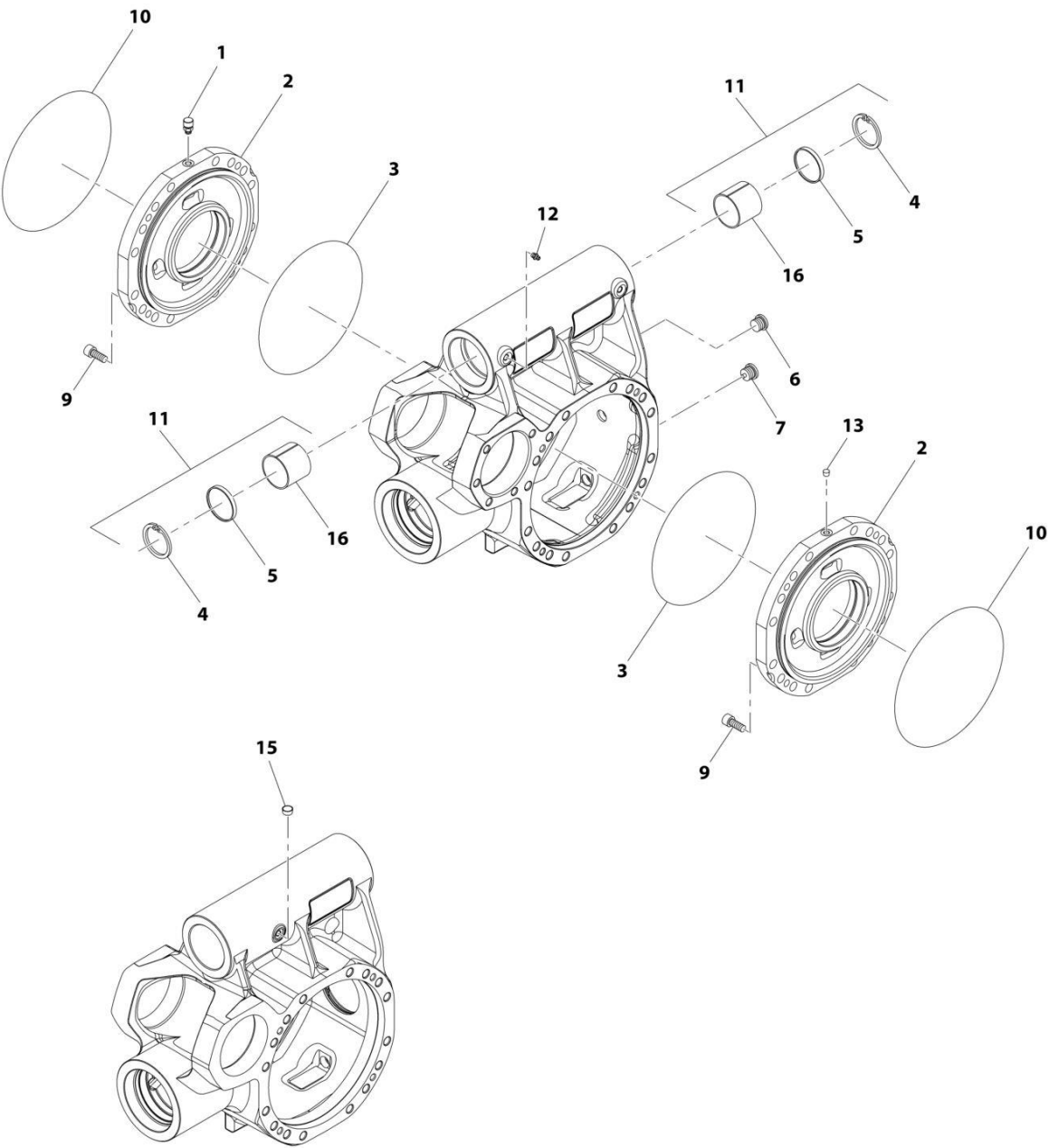
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FIGURE 5-21. FRONT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1005798200	Ref	Front Axle	E
		Ref	Front Axle, Central Housing (See Separate Breakdown in this Section)	
		Ref	Front Axle, Differential (See Separate Breakdown in this Section)	
		Ref	Front Axle, Hub Reduction (See Separate Breakdown in this Section)	
		Ref	Front Axle, Brakes (See Separate Breakdown in this Section)	
		Ref	Front Axle, Steering (See Separate Breakdown in this Section)	

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FIGURE 5-22. FRONT AXLE - CENTRAL HOUSING



ART_1005798200-1

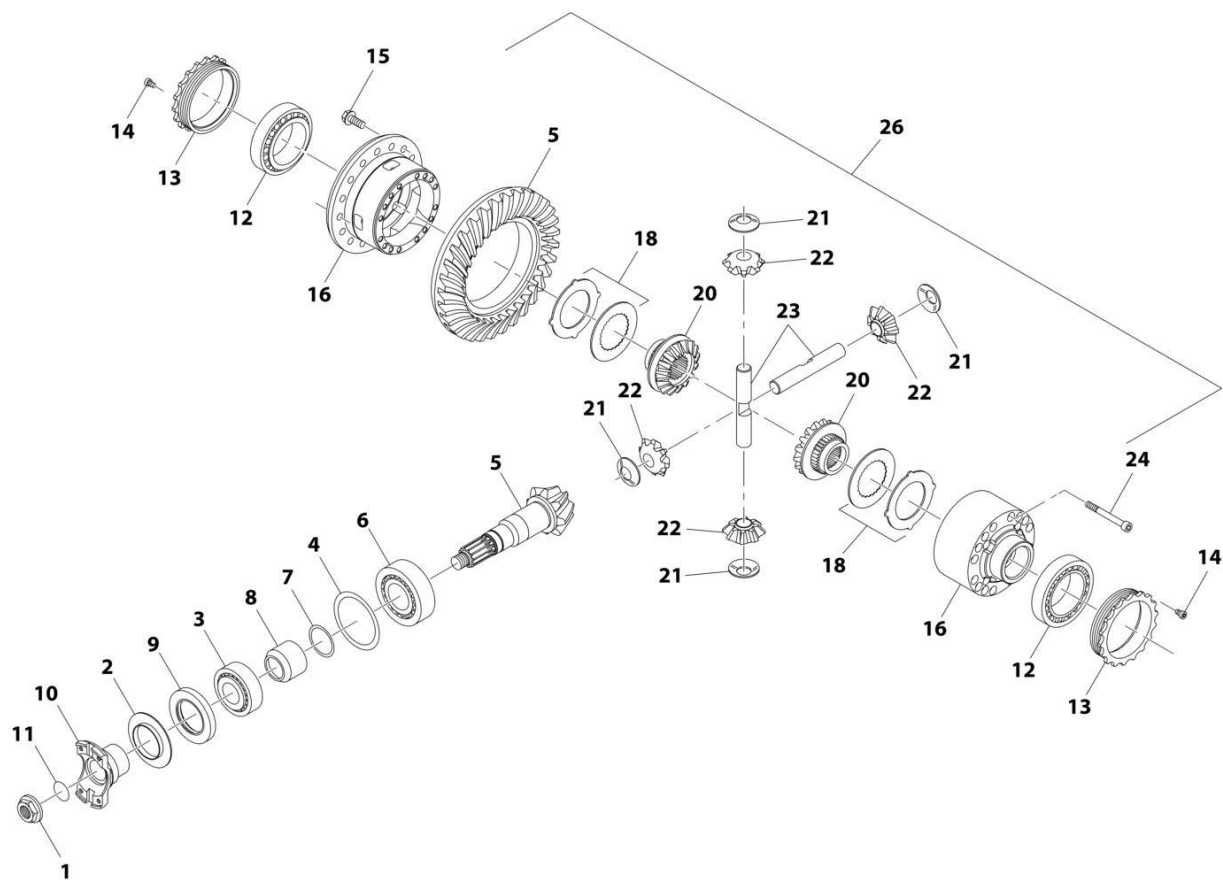
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FIGURE 5-22. FRONT AXLE - CENTRAL HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1005798200	Ref	FRONT AXLE, CENTRAL HOUSING	E
1	91474512	1	Vent	
2	7029288	2	Intermediate Cover	
3	80204002	2	O-Ring	
4	70028939	2	Ring	
5	70028974	2	Seal	
6	70028389	1	Plug	
7	70028388	1	Plug	
9	91514101	8	Bolt	
10	91514089	2	O-Ring	
11	70029482	1	Housing	
12	70024881	2	Grease Fitting	
13	80204012	1	Plug	
15	70028938	1	Plug	
16	70028886	2	Thrust Bushing	

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FIGURE 5-23. FRONT AXLE - DIFFERENTIAL



ART_1005798200-2

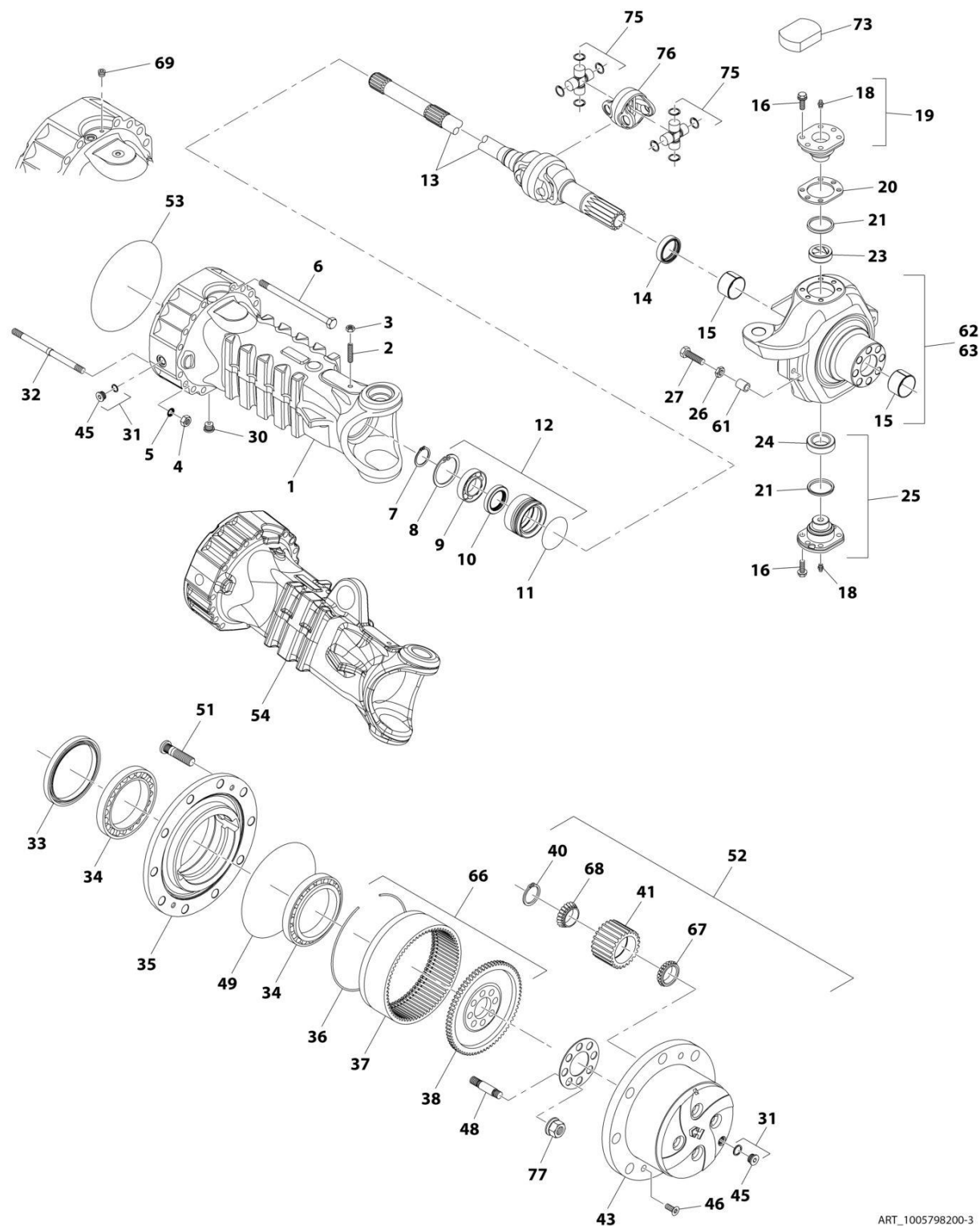
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FIGURE 5-23. FRONT AXLE - DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1005798200	Ref	FRONT AXLE, DIFFERENTIAL	E
1	80204043	1	Nut	
2	91514130	1	Cover Plate	
3	80204048	1	Taper Roller Bearing	
4	70029483	1	Shim Kit	
5	70028391	1	Bevel Gear Set	
6	80204035	1	Taper Roller Bearing	
7	70023494	1	Ring	
8	70022140	1	Spacer	
9	70025887	1	Seal	
10	91514131	1	Flange	
11	10725554	1	O-Ring	
12	80204033	2	Taper Roller Bearing	
13	91514133	2	Ring Nut	
14	91514134	2	Bolt	
15	70025562	16	Bolt	
16	70024004	1	Differential Carrier	
18	70026750	2	Clutch Disc	
20	70025856	2	Gear, Differential Side	
21	70027105	4	Friction Washer	
22	70025339	4	Differential Pinion	
23	70023490	2	Differential Shaft	
24	91514143	15	Bolt	
26	70028390	1	Differential	

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FIGURE 5-24. FRONT AXLE - HUB REDUCTION



ART_1005798200-3

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FIGURE 5-24. FRONT AXLE - HUB REDUCTION

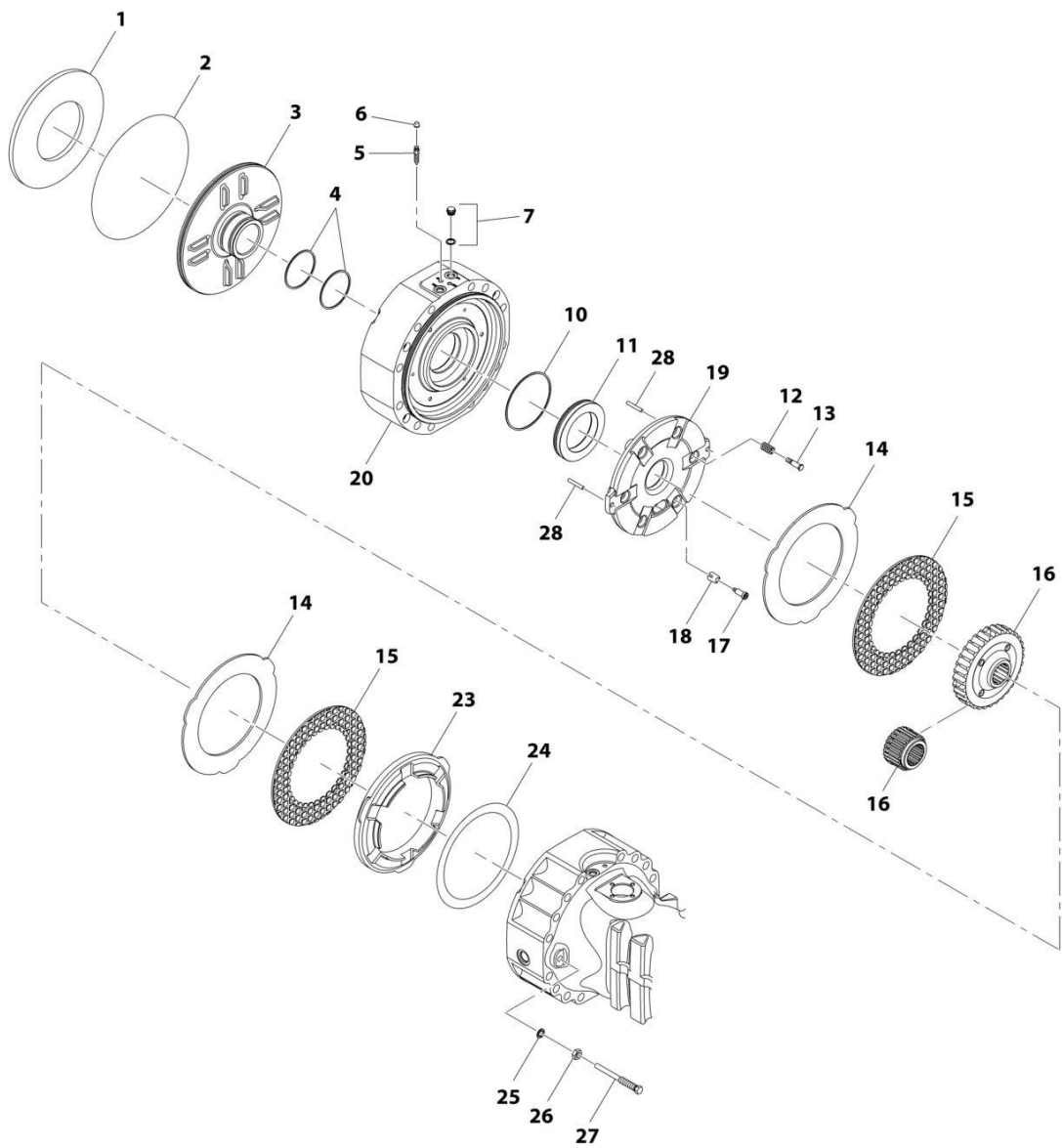
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1005798200	Ref	FRONT AXLE, HUB REDUCTION	E
1	70029484	1	Axle Case	
2	91514081	2	Bolt	
3	91514082	2	Nut	
4	91514083	8	Nut	
5	91514084	8	Washer	
6	7029309	24	Bolt	
7	80204071	2	Circlip	
8	80204005	2	Circlip	
9	91514146	2	Bearing, Ball	
10	91514147	2	Seal	
11	91514148	2	O-Ring	
12	91514149	2	Reduction Bushing	
13	70026066	2	Double Universal Joint	
14	70025857	2	Seal	
15	91514111	2	Thrust Bushing	
16	70025562	24	Bolt	
18	70024881	4	Grease Fitting	
19	70028890	2	Pivot Pin	
20	70025561	1	Shim Kit	
21	7028716	4	Dust Seal	
23	7028714	2	Bushing	
24	91514095	2	Bearing	
25	70028891	2	Pivot Pin	
26	80204065	4	Nut	
27	70028975	4	Bolt	
30	70028388	2	Plug	
31	91514188	2	Plug	
32	70024851	8	Stud	
33	70026002	2	Seal	
34	80204076	4	Tapered Roller Bearing	
35	91514174	2	Wheel Hub	
36	91514175	2	Circlip	
37	70024147	2	Ring Gear	
38	91514177	2	Ring Gear Support	
40	70028926	8	Snap Ring	
41	70028924	8	Planet Gear	
43	70029486	2	Planet Gear Carrier	
45	70028389	2	Plug	
46	91514189	4	Bolt, Countersunk	
48	91514180	16	Stud	
49	91514181	2	O-Ring	
51	91514183	20	Wheel Stud	
52	70029454	2	Planet Gear Carrier Assembly	
53	91514089	2	O-Ring	
54	70029544	1	Axle Case	
61	7029311	4	Spacer	
62	70029488	1	Steering Case Assembly (LF)	
63	70029489	1	Steering Case Assembly (RF)	
66	70024146	2	Ring Gear Support Kit	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
67	70028923	8	Tapered Roller Bearing	
68	70028922	8	Tapered Roller Bearing	
69	80204012	2	Plug	
73	70028392	2	Cover	
75	70023829	2	Joint Cross	
76	70023116	1	Center Body	
77	70029545	16	Nut	

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FIGURE 5-25. FRONT AXLE - BRAKES



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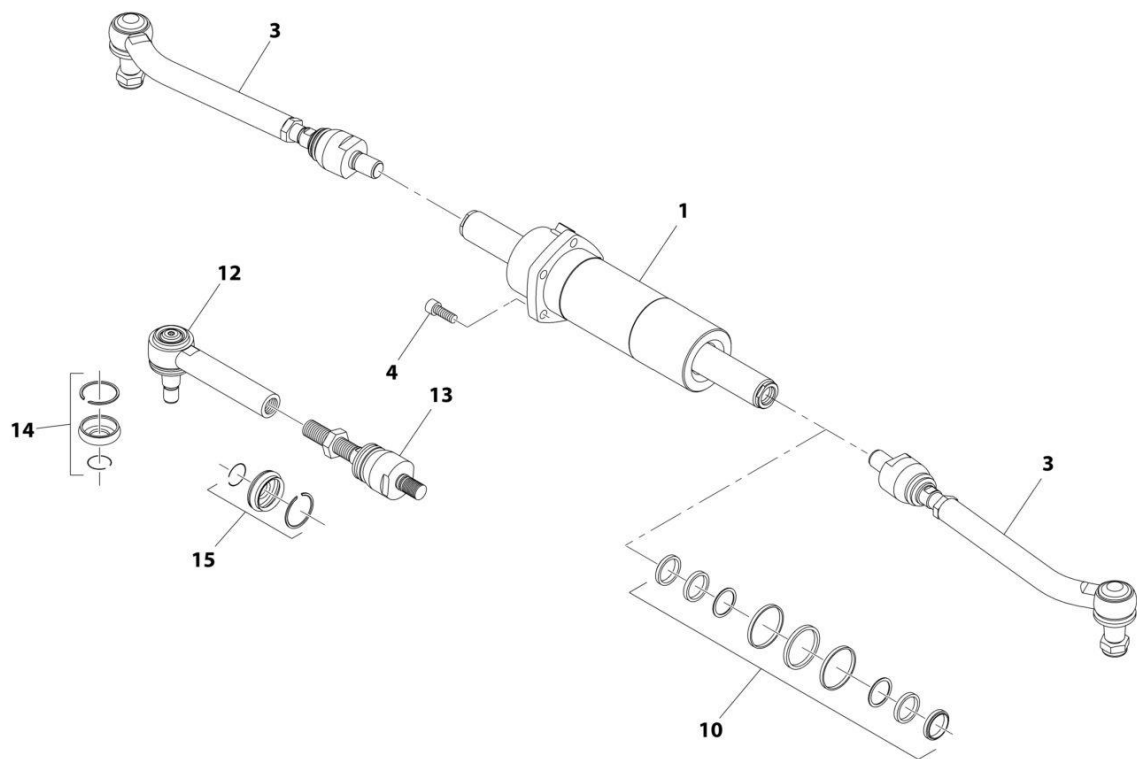
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FIGURE 5-25. FRONT AXLE - BRAKES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1005798200	Ref	FRONT AXLE, BRAKES	E
1	91514151	2	Belleville Washer	
2	91514089	2	O-Ring	
3	70027092	2	Piston	
4	70026262	4	Seal	
5	80204281	4	Bleeding Bolt	
6	80204117	4	Plug	
7	91514154	4	Bolt	
10	70026263	2	Seal	
11	70027796	2	Piston	
12	91514159	6	Spring	
13	70024210	6	Adjusting Bolt	
14	70027022	6	Intermediate Brake Disc	
15	7029735	6	Brake Disc	
16	7029734	2	Reduction Bushing	
17	7029787	6	Adjusting Bolt	
18	70027317	6	Spring	
19	70024849	2	Disc, Intermediate Brake	
20	70024848	2	Cover	
23	70026264	2	Spacer	
24	70025970	1	Shim	
25	80204108	4	Lockwasher	
26	80204060	4	Nut	
27	70024213	4	Bolt, M22 x 245/2	
28	70024215	4	Dowel	

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FIGURE 5-26. FRONT AXLE - STEERING



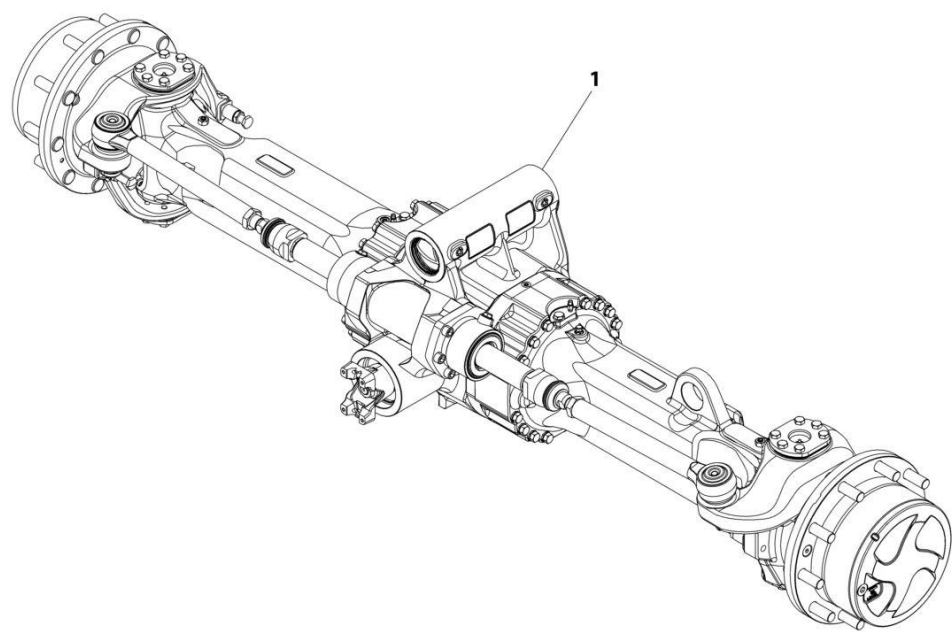
ART_1005798200-5

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FIGURE 5-26. FRONT AXLE - STEERING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1005798200	Ref	FRONT AXLE, STEERING	E
1	70028947	1	Cylinder	
3	70028948	2	Tie Rod	
4	80204144	5	Cylinder Bolt	
10	7029127	1	Seal Kit	
12	70028949	1	Joint, 90	
13	70028950	1	Axial Joint Shaft	
14	70028951	1	Rubber Boot and Locking Ring Kit	
15	70028952	1	Rubber Boot and Locking Ring Kit	

FIGURE 5-27. REAR AXLE



ART_1010278300-C

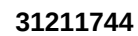
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FIGURE 5-27. REAR AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1010278300	Ref	Rear Axle	C
		Ref	Rear Axle, Central Housing (See Separate Breakdown in this Section)	
		Ref	Rear Axle, Differential (See Separate Breakdown in this Section)	
		Ref	Rear Axle, Hub Reduction (See Separate Breakdown in this Section)	
		Ref	Rear Axle, Brakes (See Separate Breakdown in this Section)	
		Ref	Rear Axle, Steering (See Separate Breakdown in this Section)	

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ART_1010278300-1

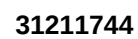
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FIGURE 5-28. REAR AXLE - CENTRAL HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1010278300	Ref	REAR AXLE, CENTRAL HOUSING	C
1	91474512	1	Vent	
2	7029288	2	Intermediate Cover	
3	80204002	2	O-Ring	
4	70028939	2	Ring	
5	70028974	2	Seal	
6	70028389	1	Plug	
7	70028388	1	Plug	
9	91514101	8	Bolt	
10	91514089	2	O-Ring	
11	70029482	1	Housing	
12	70024881	2	Grease Fitting	
13	80204012	1	Plug	
15	70028938	1	Plug	
16	70028886	2	Thrust Bushing	

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ART_1010278300-2

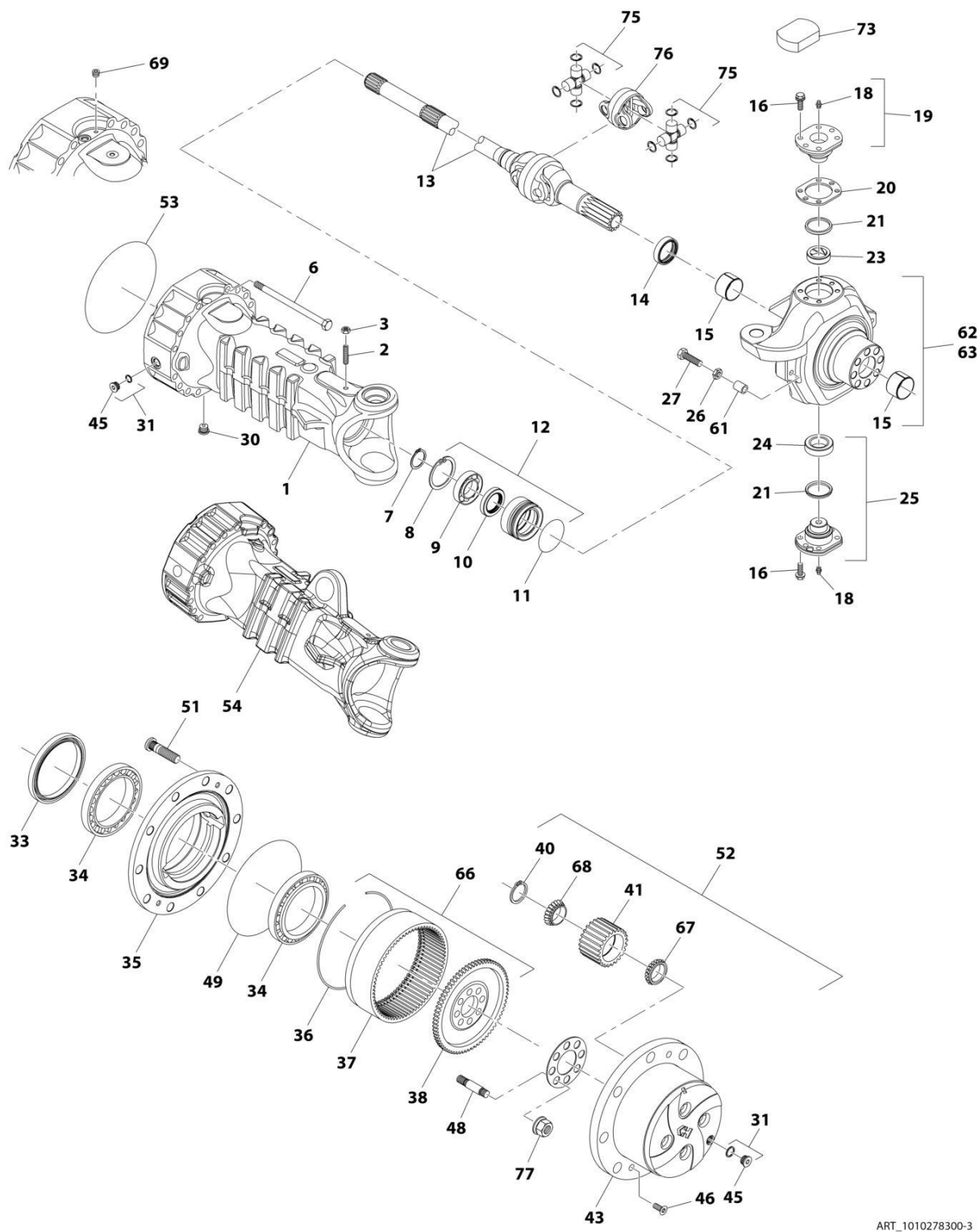
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FIGURE 5-29. REAR AXLE - DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1010278300	Ref	REAR AXLE, DIFFERENTIAL	C
1	80204043	1	Nut	
2	91514130	1	Cover Plate	
3	80204048	1	Taper Roller Bearing	
4	70029483	1	Shim Kit	
5	70028399	1	Bevel Gear Set	
6	80204035	1	Taper Roller Bearing	
7	70023494	1	Ring	
8	70022140	1	Spacer	
9	70025887	1	Seal	
10	91514131	1	Flange	
11	10725554	1	O-Ring	
12	80204033	2	Taper Roller Bearing	
13	91514133	2	Ring Nut	
14	91514134	2	Bolt	
15	70025562	16	Bolt	
16	70025337	1	Differential Carrier	
17	70023493	2	Friction Washer	
18	70025338	2	Differential Side Gear	
19	70027105	4	Friction Washer	
20	70025339	4	Differential Pinion	
21	70023490	2	Differential Shaft	
22	70023489	15	Bolt	
23	70028398	1	Differential Kit	

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FIGURE 5-30. REAR AXLE - HUB REDUCTION



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FIGURE 5-30. REAR AXLE - HUB REDUCTION

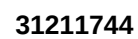
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1010278300	Ref	REAR AXLE, HUB REDUCTION	C
1	70029850	1	Axle Case	
2	91514081	2	Bolt	
3	91514082	2	Nut	
6	70028397	32	Bolt	
7	80204071	2	Circlip	
8	80204005	2	Circlip	
9	91514146	2	Ball Bearing	
10	91514147	2	Seal	
11	91514148	2	O-Ring	
12	91514149	2	Reduction Bushing	
13	70026066	2	Double Universal Joint	
14	70025857	2	Seal	
15	91514111	2	Thrust Bushing	
16	70025562	24	Bolt	
18	70024881	4	Grease Fitting	
19	70028890	2	Pivot Pin	
20	70025561	1	Shim Kit	
21	7028716	4	Dust Seal	
23	7028714	2	Bushing	
24	91514095	2	Bearing	
25	70028891	2	Pivot Pin	
26	80204065	4	Nut	
27	70028975	4	Bolt	
30	70028388	2	Plug	
31	91514188	2	Plug	
33	70026002	2	Seal	
34	80204076	4	Taper Roller Bearing	
35	91514174	2	Wheel Hub	
36	91514175	2	Circlip	
37	70024147	2	Ring Gear	
38	91514177	2	Ring Gear Support	
40	70028926	8	Snap Ring	
41	70028924	8	Planet Gear	
43	70029486	2	Planet Gear Carrier	
45	70028389	2	Plug	
46	91514189	4	Bolt, Countersunk	
48	91514180	16	Stud	
49	91514181	2	O-Ring	
51	91514183	20	Wheel Stud	
52	70029454	2	Planet Gear Carrier Assembly	
53	91514089	2	O-Ring	
54	70029851	1	Axle Case	
61	7029311	4	Spacer	
62	70029488	1	Steering Case Assembly (LF)	
63	70029489	1	Steering Case Assembly (RF)	
66	70024146	2	Ring Gear Support Kit	
67	70028923	8	Tapered Roller Bearing	
68	70028922	8	Tapered Roller Bearing	
69	80204012	2	Plug	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
73	70028392	2	Cover	
75	70023829	2	Cross Kit	
76	70023116	1	Center Body	
77	70029545	16	Nut	

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ART_1010278300-4

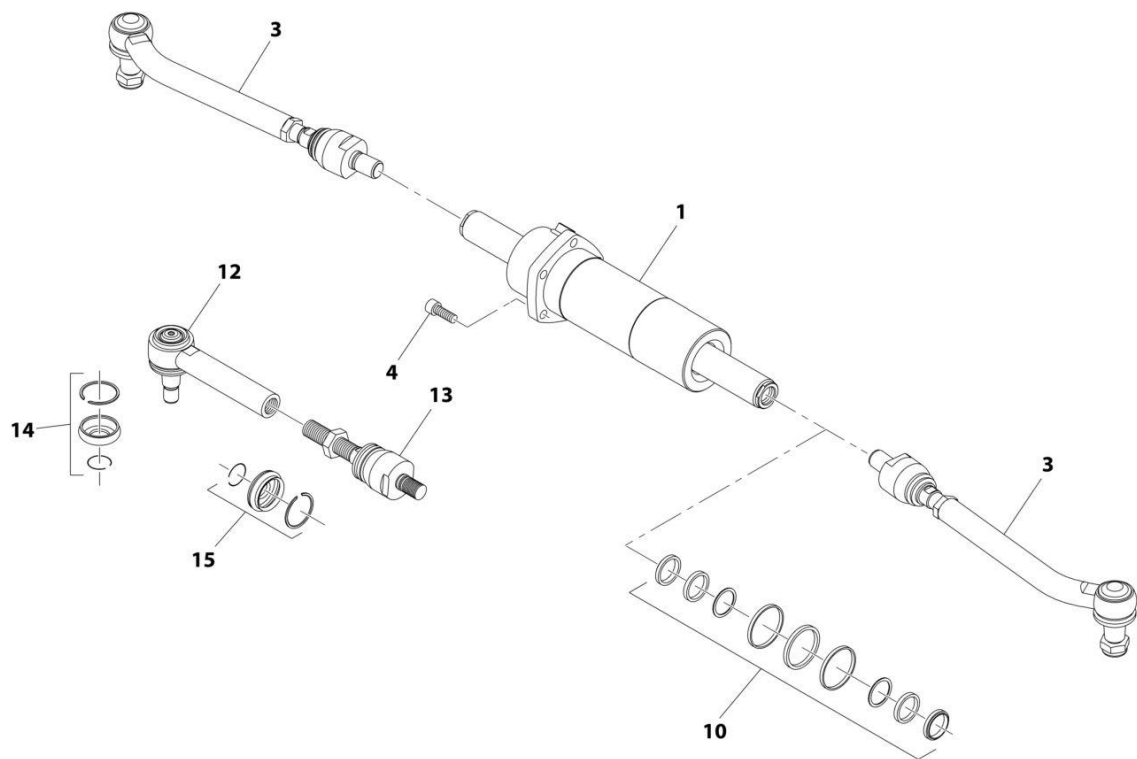
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FIGURE 5-31. REAR AXLE - BRAKES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1010278300	Ref	REAR AXLES, BRAKES	C
1	70026747	2	Seal	
3	70026748	2	Seal	
5	70024216	2	Piston	
6	70027317	6	Spring	
7	7029786	6	Adjusting Bolt	
8	91514159	6	Spring	
9	70024210	6	Adjusting Bolt	
10	70027022	4	Intermediate Brake Disc	
11	7029735	4	Brake Disc	
12	7029734	2	Reduction Bushing	
13	70029852	2	Spacer	
14	10725627	2	Bleeding Bolt	
15	80204117	2	Plug	
16	91514154	2	Bolt	
18	70021613	2	Pilot Body	

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FIGURE 5-32. REAR AXLE - STEERING



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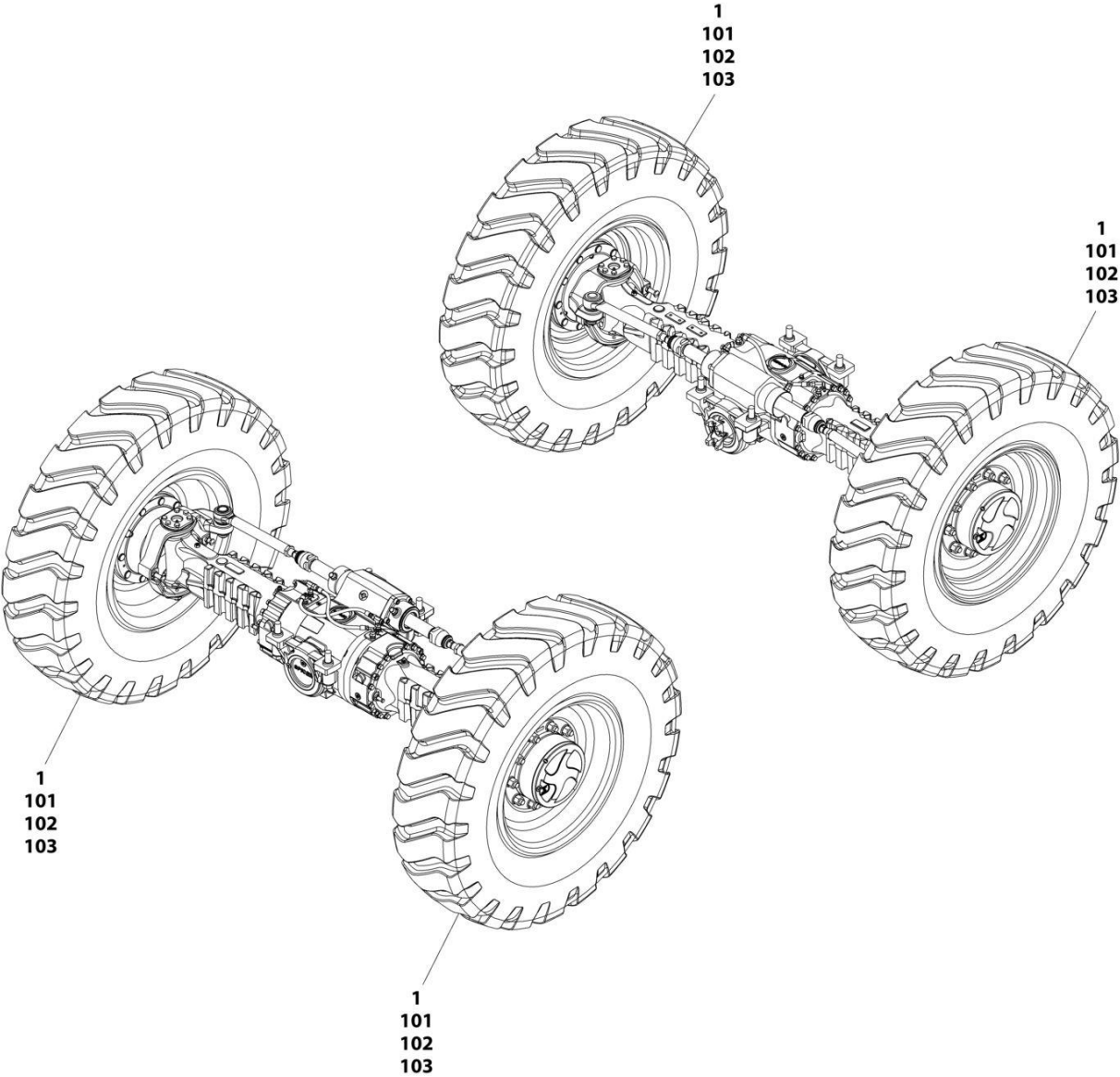
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FIGURE 5-32. REAR AXLE - STEERING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1010278300	Ref	REAR AXLE, STEERING	C
1	70028947	1	Cylinder	
3	70028948	2	Tie Rod	
4	80204144	5	Cylinder Bolt	
10	7029127	1	Seal Kit	
12	70028949	1	Joint, 90	
13	70028950	1	Axial Joint Shaft	
14	70028951	1	Rubber Boot and Locking Ring Kit	
15	70028952	1	Rubber Boot and Locking Ring Kit	

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FIGURE 5-33. TIRE SET, 14.00-24 FOAM



ART_1001264713

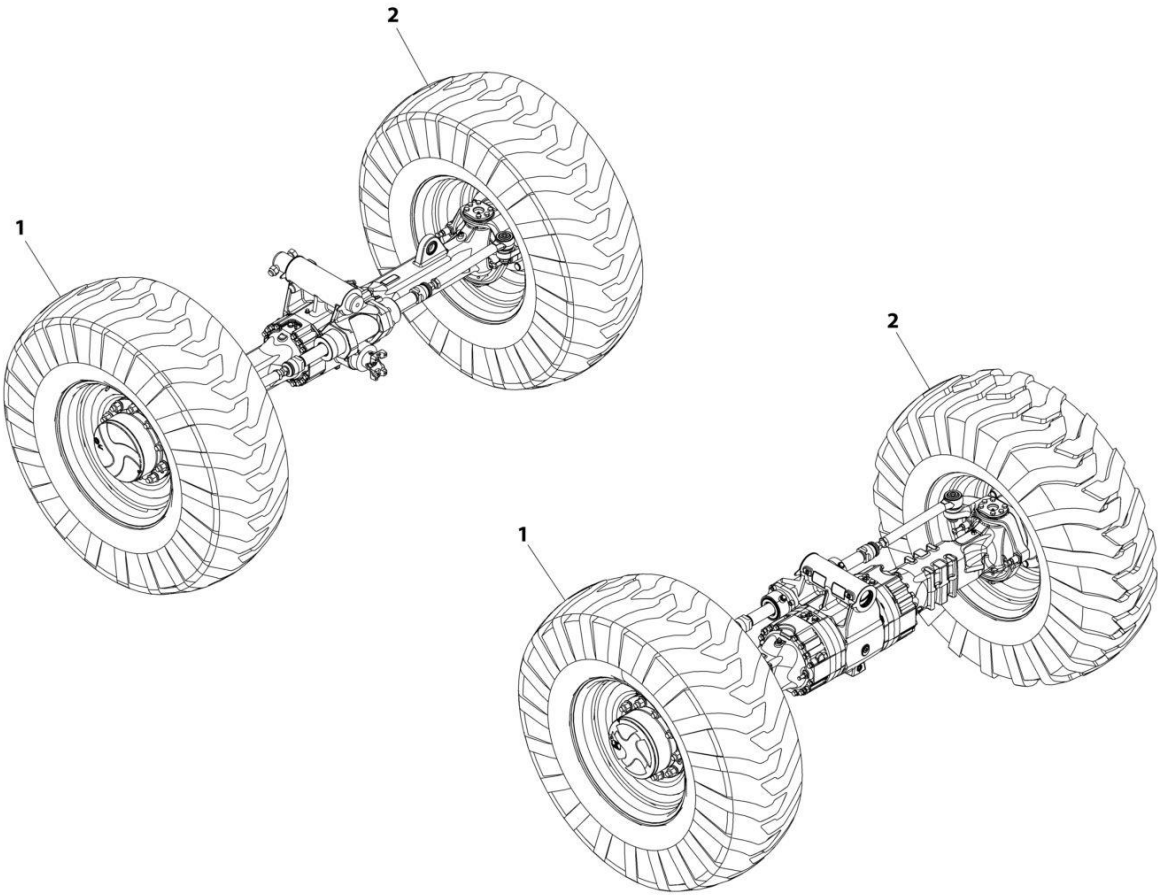
SECTION 5 - DRIVE TRAIN

FIGURE 5-33. TIRE SET, 14.00-24 FOAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001264713	Ref	TIRE WHEEL SET - 14.00-24 - FOAM-FILLED	A
		Ref	Note: Assemblies require ballast/foam filling to manufacture's specifications prior to installing on machine. Refer to Operation & Safety or Service & Maintenance Manuals.	
		Ref	Purchase individual tire and/or wheel only if able to foam fill tire & wheel assembly, otherwise purchase complete assembly.	
1	1001264700	4	Tire and Wheel Assembly	
101	8786514	4	Valve, Air (1 per assembly)	
102	91473206	4	Wheel (1 per assembly)	
103	1001263011	4	Tire 14.00-24 (1 per assembly)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-34. TIRE SET, 17.5-25 PNEUMATIC G-2



ART_1001222217-C

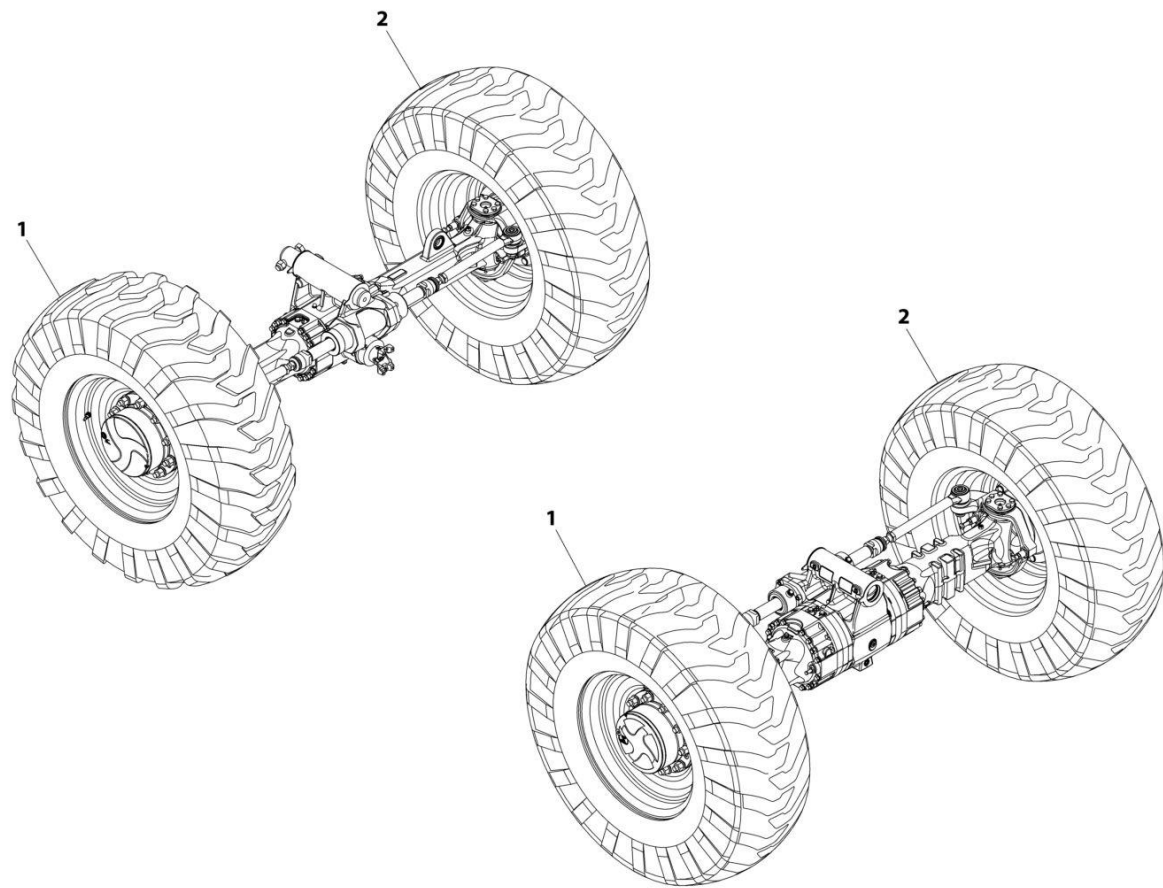
SECTION 5 - DRIVE TRAIN

FIGURE 5-34. TIRE SET, 17.5-25 PNEUMATIC G-2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222217	Ref	Tire Set, 17.5-25 Pneumatic	C
1	1001152415	2	Tire and Wheel Assembly (RH)	
1	91563250	2	Wheel (1 per assembly)	
1	8780039	2	Tire 17.2-25 16 Ply (1 per assembly)	
1	91083385	2	Valve, Air (1 per assembly)	
2	1001152416	2	Tire and Wheel Assembly (LH)	
2	91563250	2	Wheel (1 per assembly)	
2	8780039	2	Tire 17.2-25 16 Ply (1 per assembly)	
2	91083385	2	Valve, Air (1 per assembly)	

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FIGURE 5-35. TIRE SET, 17.5-25 FOAM G-2



ART_1001222218-C

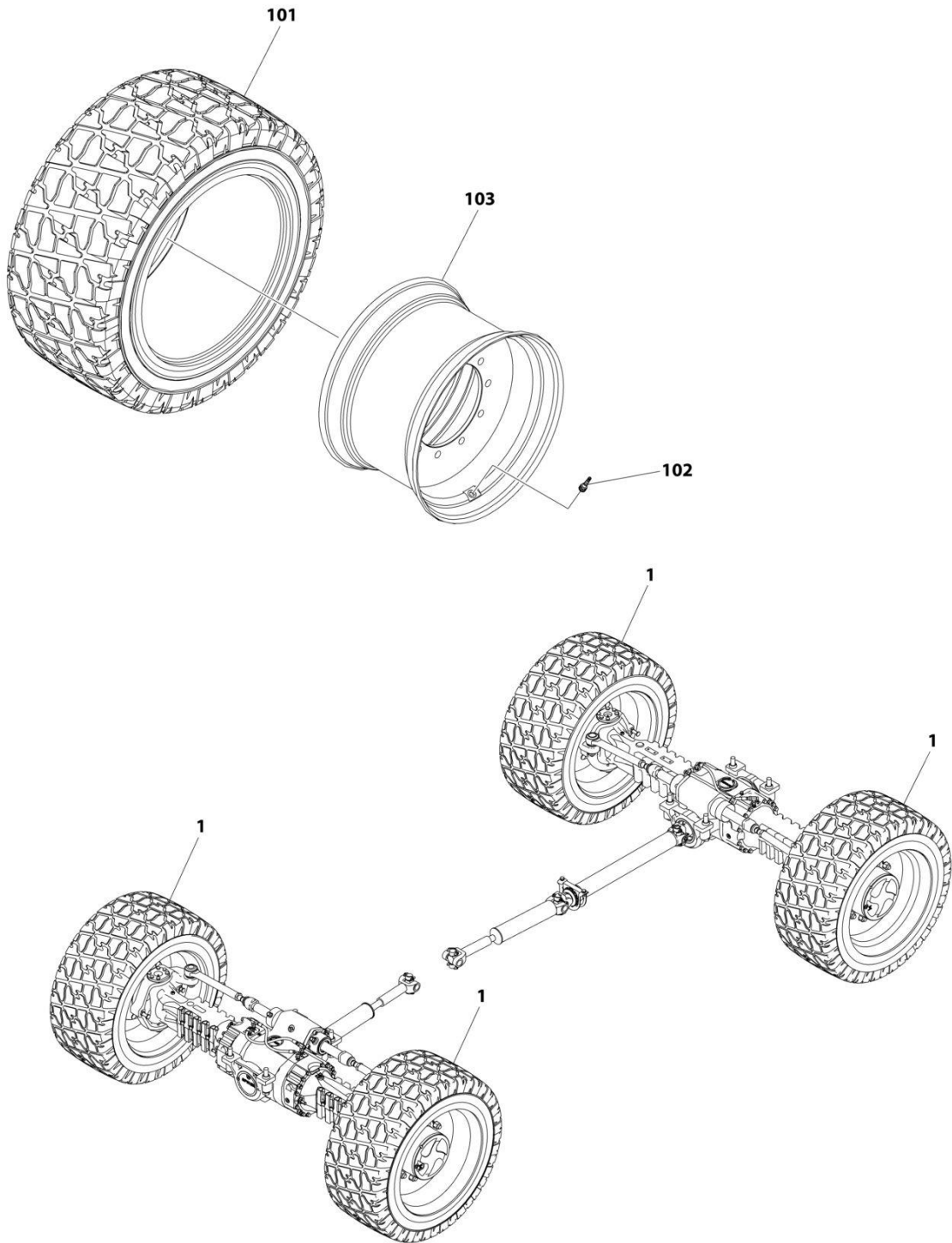
SECTION 5 - DRIVE TRAIN

FIGURE 5-35. TIRE SET, 17.5-25 FOAM G-2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222218	Ref	Tire Set, 17.5-25 Foam-Filled	C
		Ref	Note: Assemblies require ballast/foam filling to manufacture's specifications prior to installing on machine. Refer to Operation & Safety or Service & Maintenance Manuals.	
		Ref	Purchase individual tire and/or wheel only if able to foam fill tire & wheel assembly, otherwise purchase complete assembly.	
1	91565040	2	Tire and Wheel Assembly (RH)	
1	91563250	2	Wheel (1 per assembly)	
1	4520527	2	Tire 17.5-25 12 Ply (1 per assembly)	
1	91083385	2	Valve, Air (1 per assembly)	
2	91565039	2	Tire and Wheel Assembly (LH)	
2	91563250	2	Wheel (1 per assembly)	
2	4520527	2	Tire 17.5-25 12 Ply (1 per assembly)	
2	91083385	2	Valve, Air (1 per assembly)	

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FIGURE 5-36. TIRE SET, 18 X 625 TURF/SAND



ART_1001252986

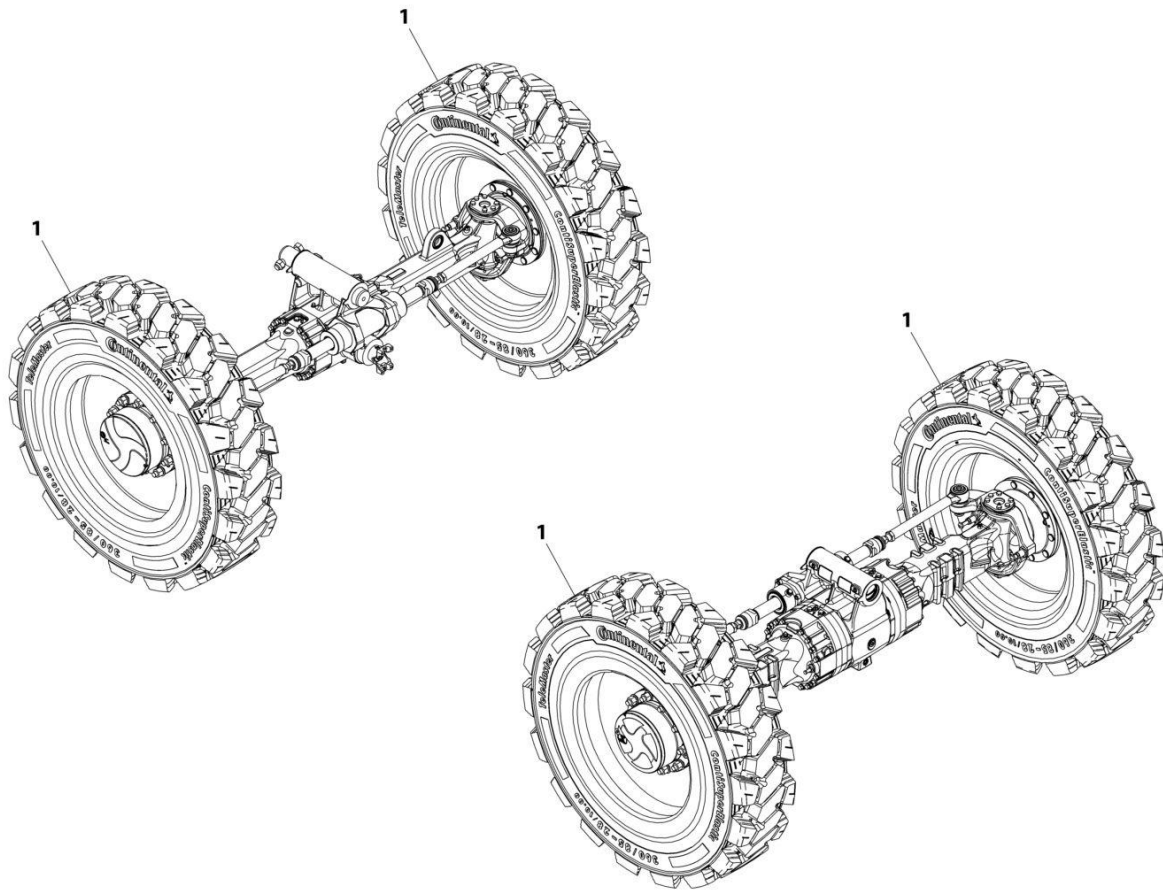
SECTION 5 - DRIVE TRAIN

FIGURE 5-36. TIRE SET, 18 X 625 TURF/SAND

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001252986	Ref	TIRE SET - 18 X 625 (TURF PNEUMATIC)	B
1	1001259635	4	Tire and Wheel Assembly	
101	4520356	4	Tire - 18 x 625 Turf/Sand (1 per assembly)	
102	4641122	4	Valve, Air (1 per assembly)	
103	1001246001	4	Wheel (1 per assembly)	

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FIGURE 5-37. TIRE SET, 360/85-28 SOLID



ART_1001222221-C

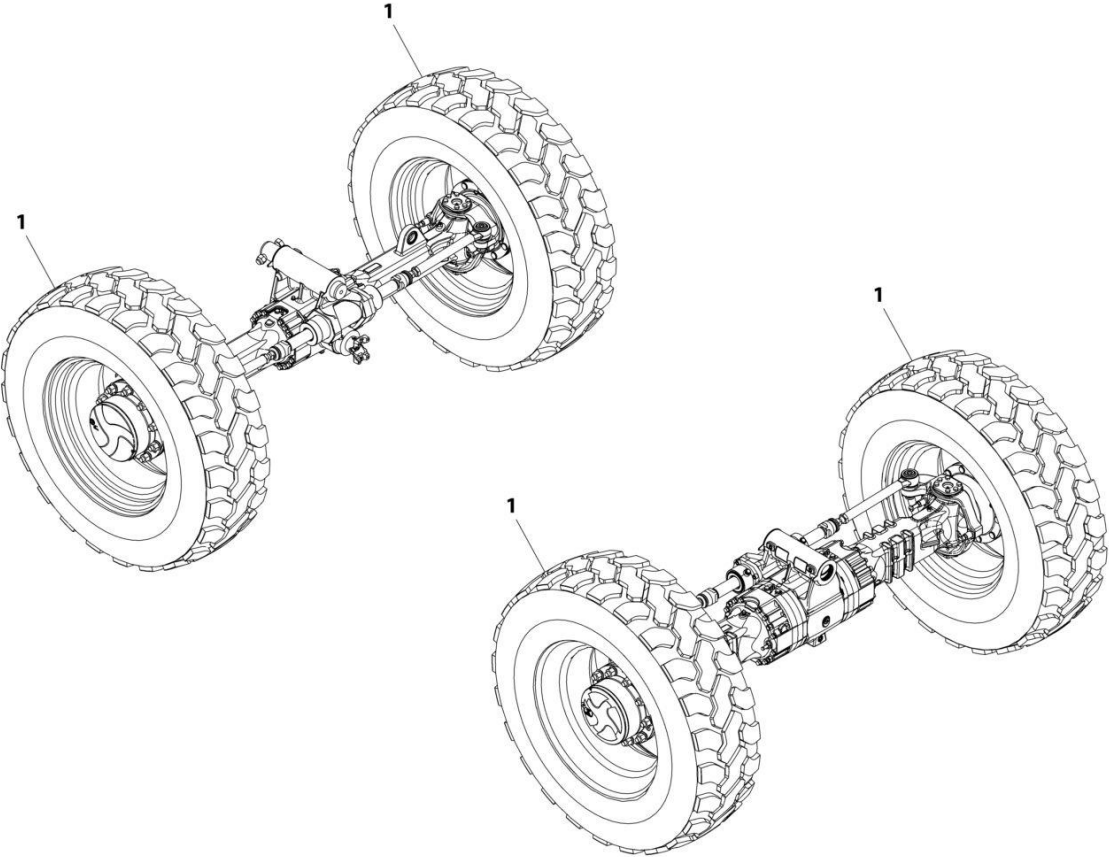
SECTION 5 - DRIVE TRAIN

FIGURE 5-37. TIRE SET, 360/85-28 SOLID

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001222221	Ref	Tire Set, 360/85-28 Solid	C
	1001213200J	4	Tire, 360/85-28 Solid	

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FIGURE 5-38. TIRE SET, 400/75-28 PNEUMATIC



ART_1001222219-B

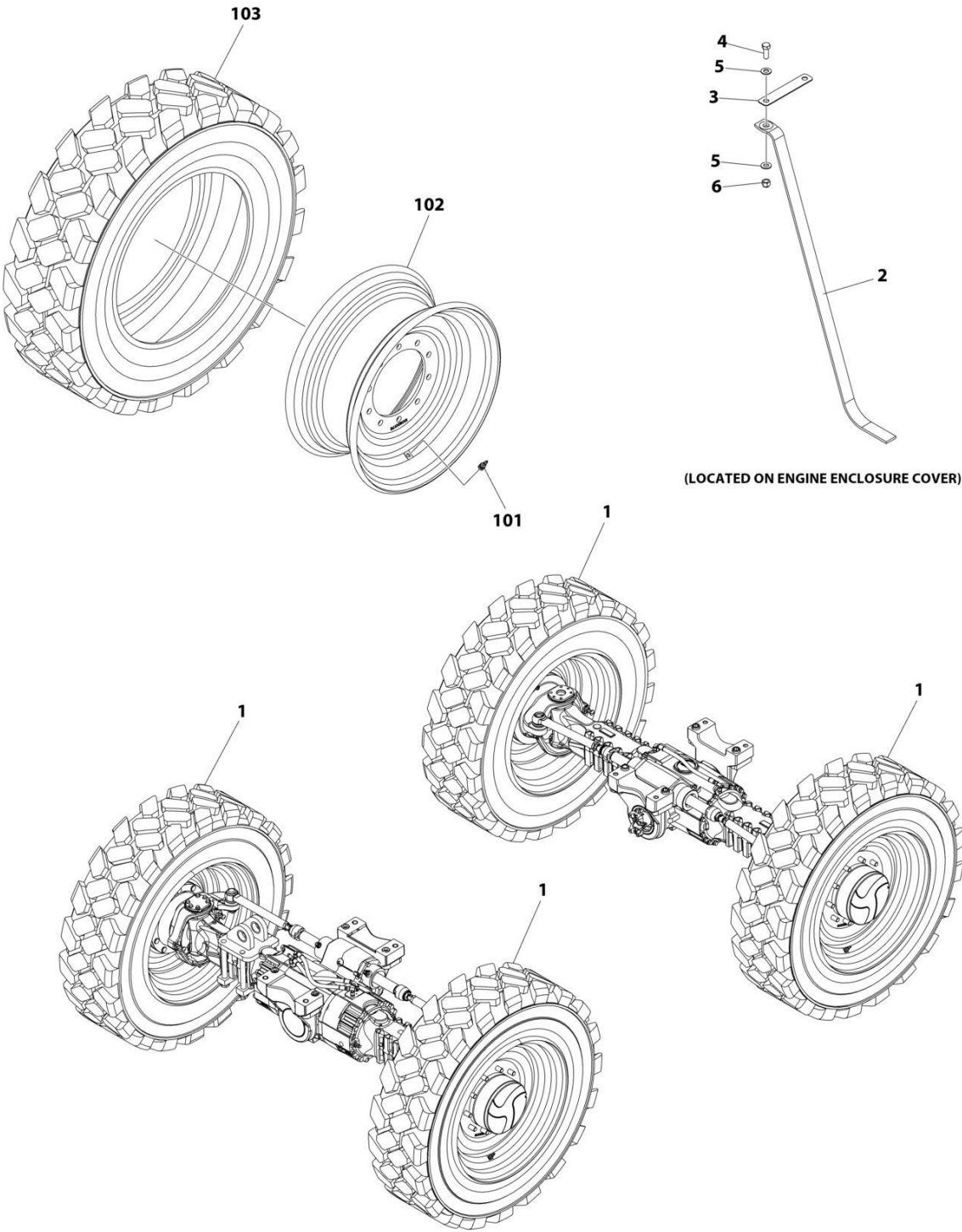
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FIGURE 5-38. TIRE SET, 400/75-28 PNEUMATIC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222219	Ref	Tire Set, 400/75-28 Pneumatic	B
1	1001121103	4	Tire and Wheel Assembly	
1	8786514	4	Valve, Air (1 per assembly)	
1	1001120178	4	Wheel (1 per assembly)	
1	1001120179	4	Tire 400/75-28 (1 per assembly)	

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FIGURE 5-39. TIRE SET, 400/75-28 PNEUMATIC (NON-MARKING)



ART_1001241848

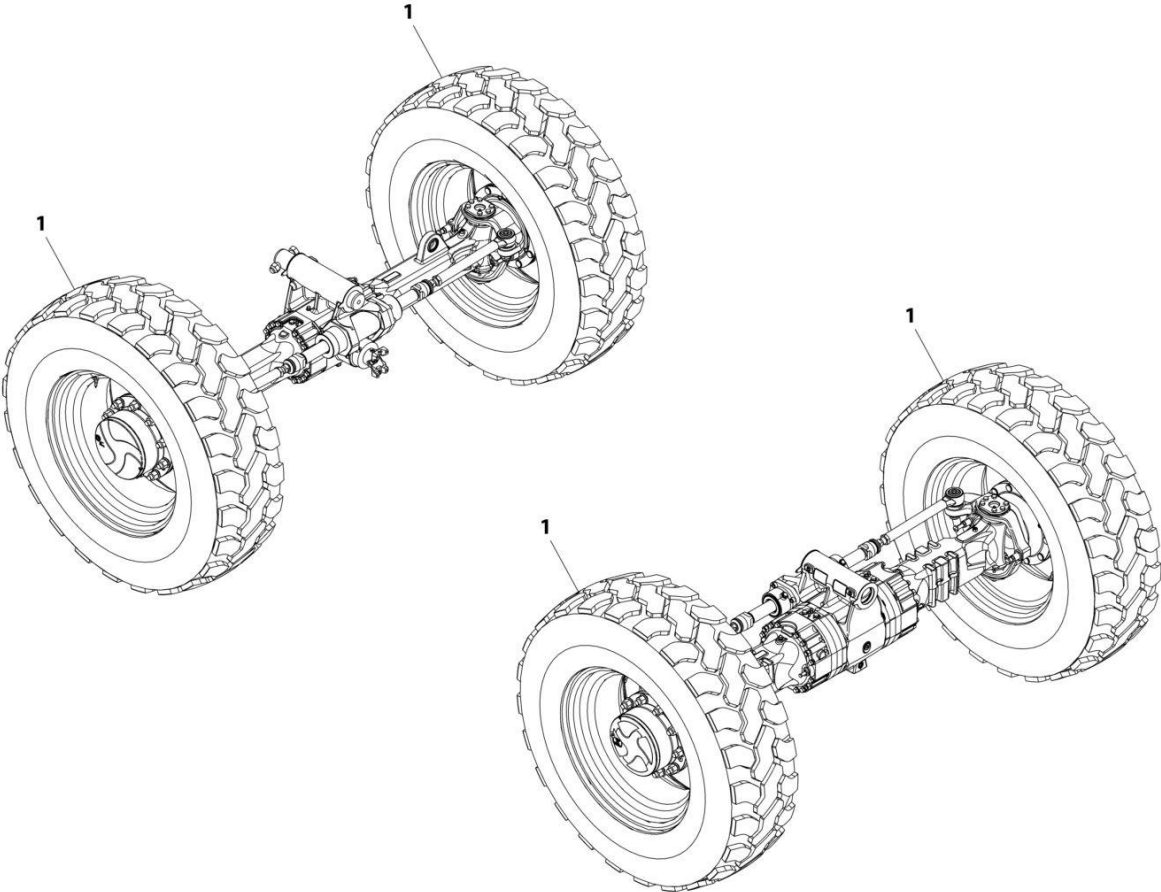
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FIGURE 5-39. TIRE SET, 400/75-28 PNEUMATIC (NON-MARKING)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001241848	Ref	TIRE/WHEEL SET - 400/75-28 - PNEUMATIC NON MARKING	B
	1001241841	4	Assembly, Tire and Wheel - 400/75-28 - Pneumatic Non-Marking (See Items 101-103)	
2	1001275637	1	Strap, Anti-Static	A
3	1001275638	1	Bracket	
4	8303620	1	Bolt 3/8 x 1	
5	8307110	2	Washer 3/8	
6	8305645	1	Nut 3/8	
	1001241841	Ref	ASSEMBLY, TIRE AND WHEEL - 400/75-28 - PNEUMATIC NON-MARKING	
101	8786514	4	Valve, Air (1 per assembly)	
102	1001120178	4	Wheel (1 per assembly)	
103	1001241837	4	Tire 400/75-28 Non-Marking (1 per assembly)	

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FIGURE 5-40. TIRE SET, 400/75-28 FOAM



ART_1001222220-B

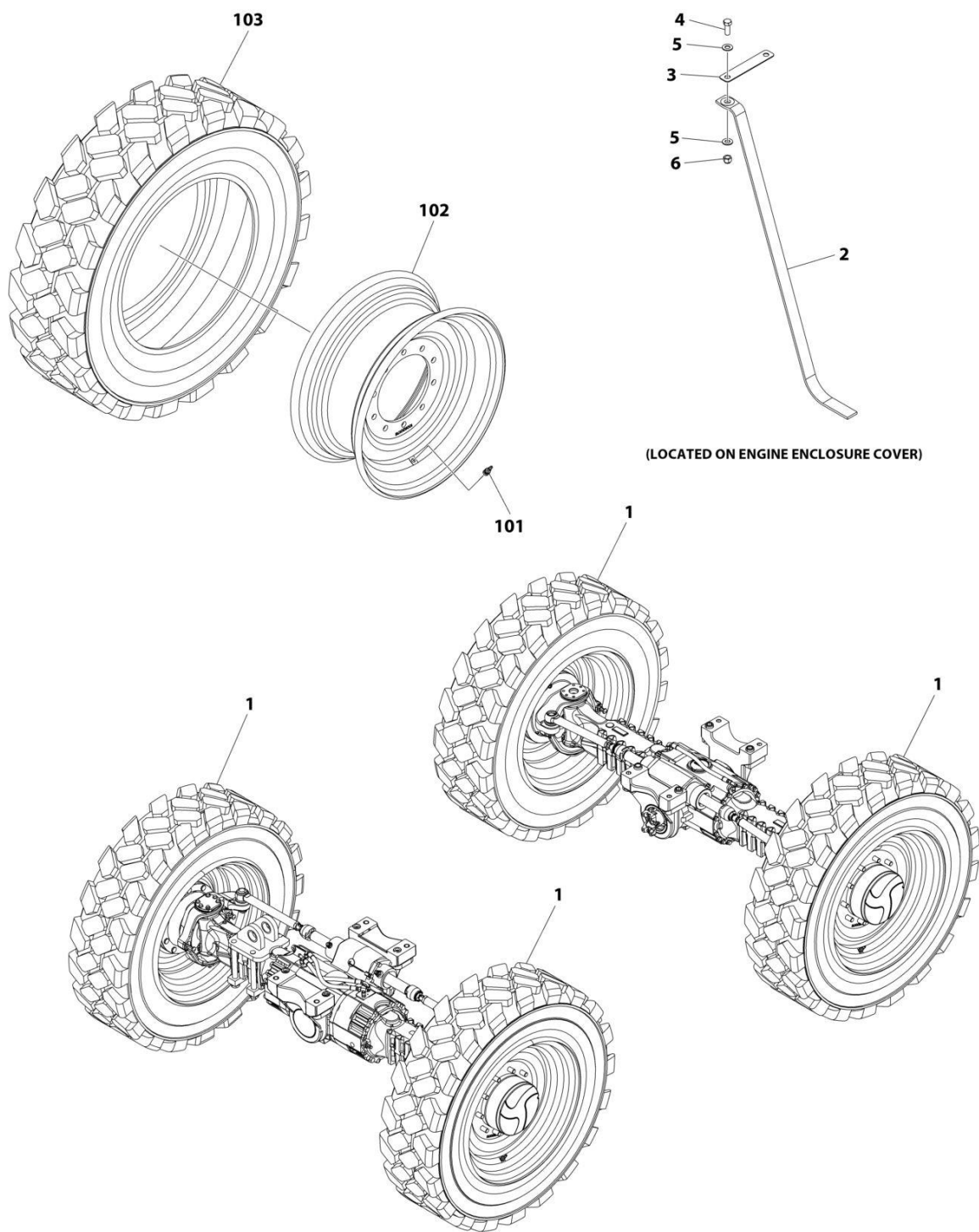
SECTION 5 - DRIVE TRAIN

FIGURE 5-40. TIRE SET, 400/75-28 FOAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222220	Ref	Tire Set, 400/75-28 Foam-Filled	B
		Ref	Note: Assemblies require ballast/foam filling to manufacture's specifications prior to installing on machine. Refer to Operation & Safety or Service & Maintenance Manuals.	
		Ref	Purchase individual tire and/or wheel only if able to foam fill tire & wheel assembly, otherwise purchase complete assembly.	
1	1001121105	4	Tire and Wheel Assembly	
1	8786514	4	Valve, Air (1 per assembly)	
1	1001120178	4	Wheel (1 per assembly)	
1	1001120179	4	Tire 400/75-28 (1 per assembly)	

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FIGURE 5-41. TIRE SET, 400/75-28 FOAM (NON-MARKING)



ART_1001241849

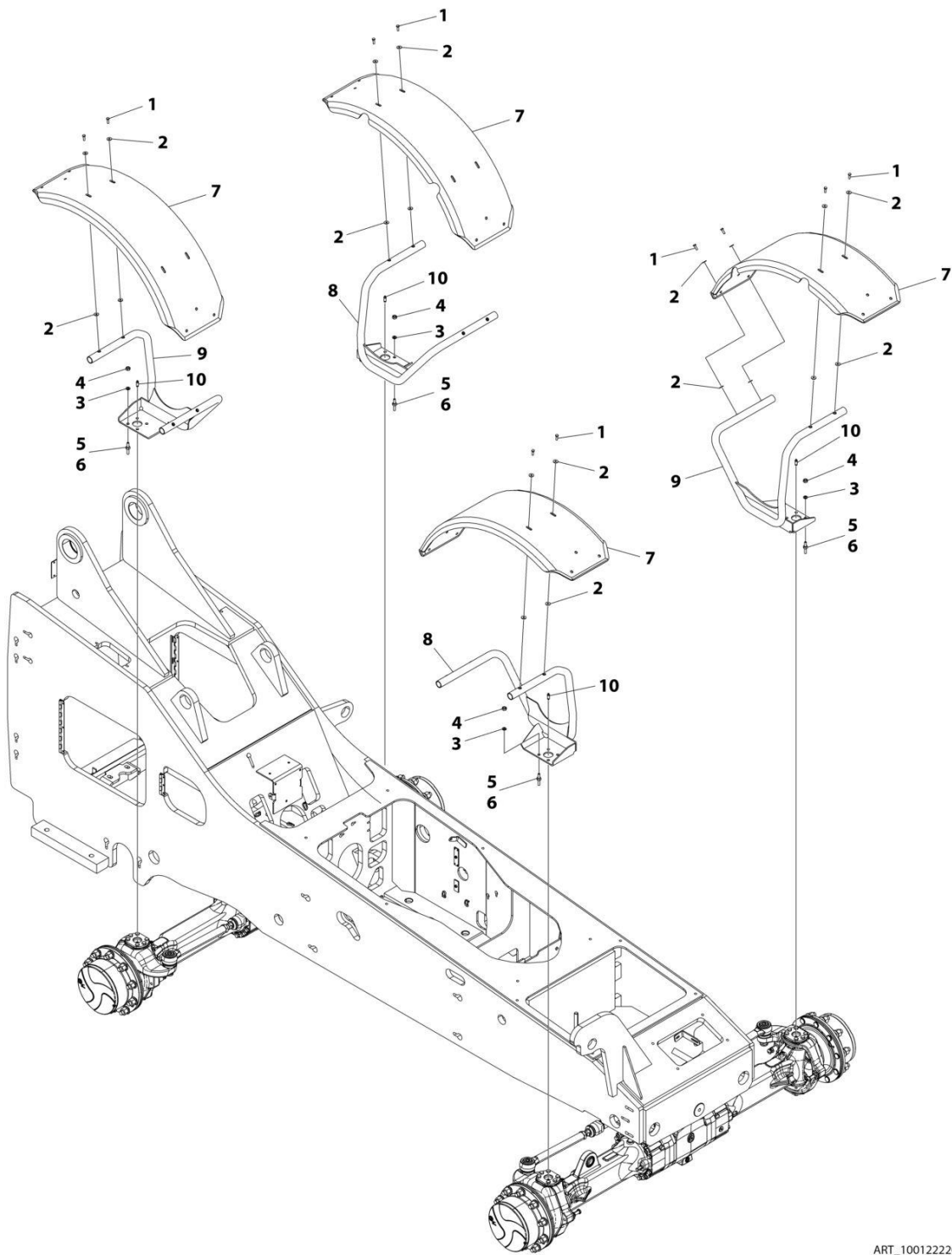
SECTION 5 - DRIVE TRAIN

FIGURE 5-41. TIRE SET, 400/75-28 FOAM (NON-MARKING)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241849	Ref	TIRE/WHEEL SET 400/75-28 - FOAM FILLED NON MARKING	B
		Ref	Note: Assemblies require ballast/foam filling to manufacture's specifications prior to installing on machine. Refer to Operation & Safety or Service & Maintenance Manuals.	
		Ref	Purchase individual tire and/or wheel only if able to foam fill tire & wheel assembly, otherwise purchase complete assembly.	
1	1001241842	4	Tire and Wheel Assembly (See Items 101-103)	A
2	1001275637	1	Strap, Anti-Static	
3	1001275638	1	Bracket	
4	8303620	1	Bolt 3/8 x 1	
5	8307110	2	Washer 3/8	
6	8305645	1	Nut 3/8	
	1001241842	Ref	TIRE AND WHEEL ASSEMBLY	
101	8786514	4	Valve, Air (1 per assembly)	
102	1001120178	4	Wheel (1 per assembly)	
103	1001241837	4	Tire 400/75-28 Non-Marking (1 per assembly)	

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FIGURE 5-42. FENDER INSTALLATION



ART_1001222200

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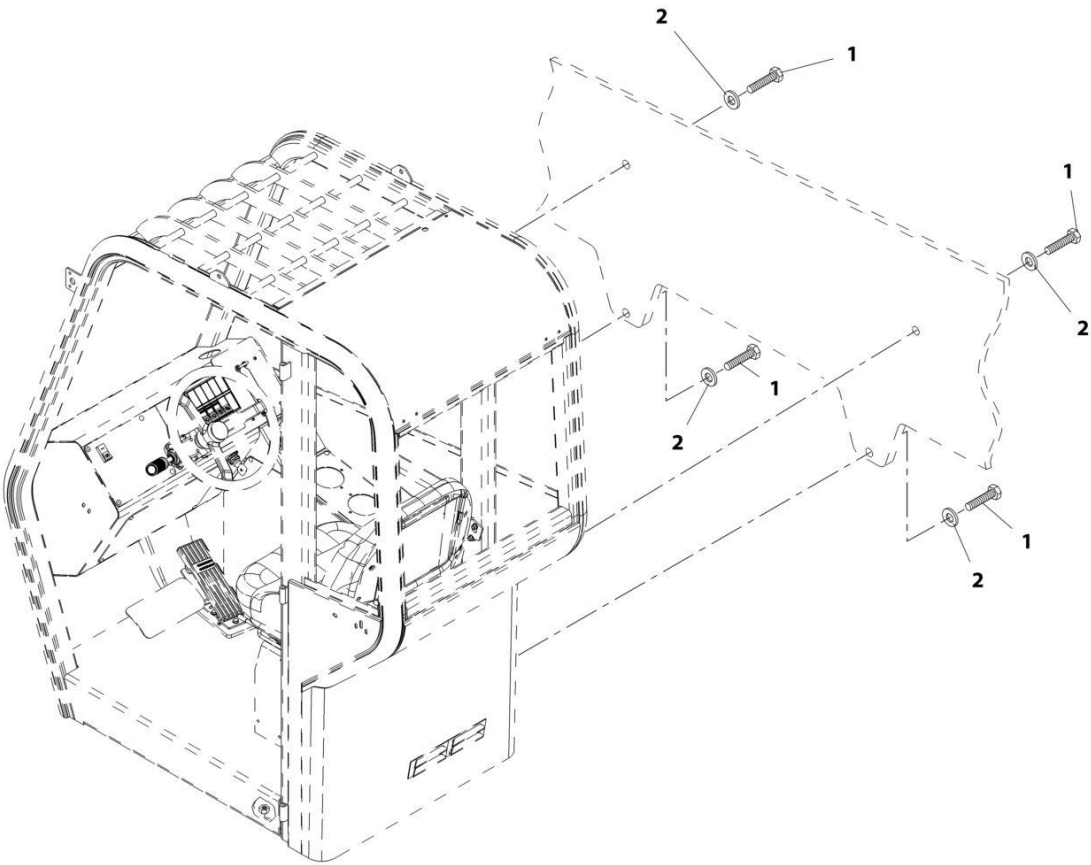
FIGURE 5-42. FENDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222200	Ref	Fender Installation	D
1	0760812	16	Capscrew, M8X25	
2	4811902	32	Washer	
3	83191010	16	Washer, Lock M12	
4	91513266	16	Nut, M12	
5	91514118	16	Stud, Fender	
6	1001095650	AR	Adhesive	
7	1001154055	4	Fender	
8	1001222203	2	Bracket, Fender	
9	1001222717	2	Bracket, Fender	
10	1001225317	4	Fitting, Grease	

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SECTION 6 - CAB

FIGURE 6-1. CAB INSTALLATION



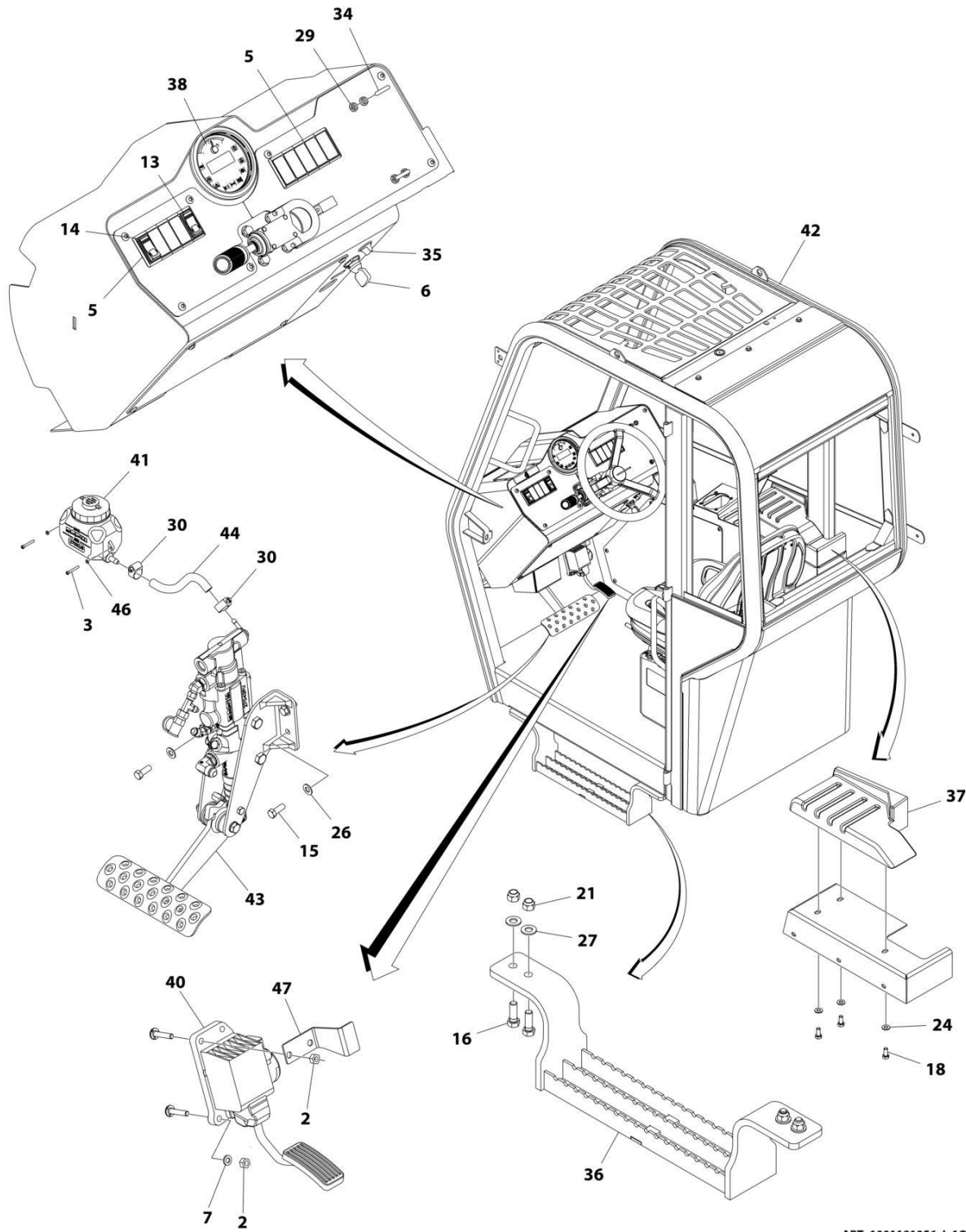
ART_713882_AA

FIGURE 6-1. CAB INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7138882	Ref	Cab Installation	AA
1	8310493	4	Bolt, 7/8-9X5-1/2, Grade 8	
2	8307011	4	Washer, Lock 7/8	

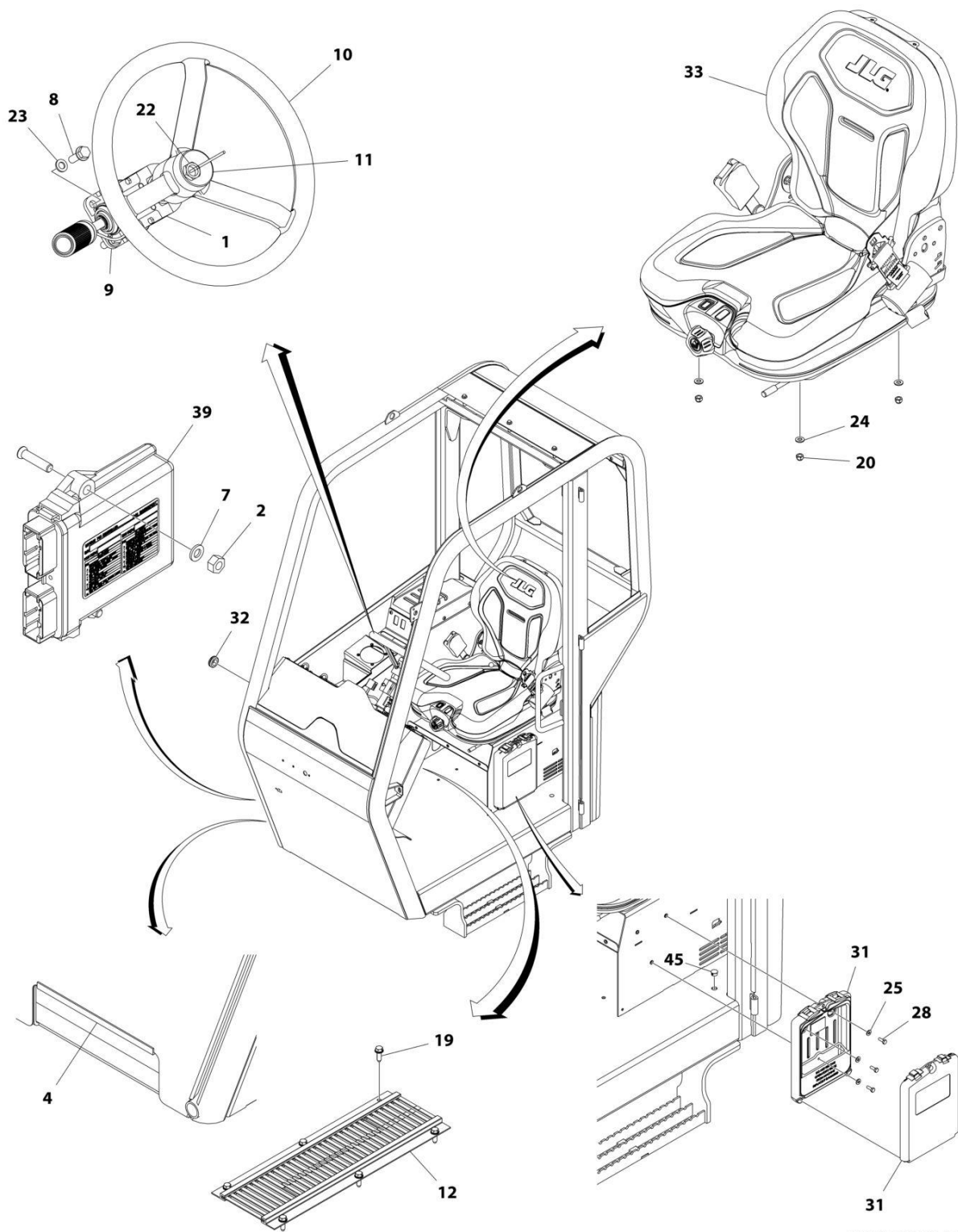
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FIGURE 6-2. OPEN CAB INSTALLATION



ART_1001181956_I_10F2

SECTION 6 - CAB



ART_1001181956_I_20F2

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FIGURE 6-2. OPEN CAB INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181956	Ref	OPEN CAB INSTALLATION	I
1	1600429	1	Selector, Transmission Control	
2	3311401	5	Nut 1/4	
3	3930610	2	Bolt #6 x 5/8	
4	4060806	11 in	Flex-Trim	
5	4360569	2	Switch, Bezel	
6	4360690	1	Switch, Ignition	
6	8035807	1	Key (with cover)	
7	4761400	3	Washer 1/4	
8	5251014	4	Bolt M10 x 30	
9	7138833	1	Column, Steering	
10	7138836	1	Wheel, Steering	
11	7138878	1	Button, Horn	
12	7138944	2	Strips, Brush	
13	8223037	1	Switch, Steer Select	
14	8223054	1	Switch, Park Brake	
15	8303620	4	Bolt 3/8 x 1	
16	8303626	4	Bolt 1/2 x 1-1/2	
18	8303697	3	Bolt 5/16 x 3/4	
19	8303982	6	Screw 1/4 x 3/4	
20	8305626	4	Nut 5/16	
21	8305644	4	Nut 1/2	
22	8305916	1	Nut, Steering Column	
23	8307023	4	Washer M10	
24	8307106	7	Washer 5/16	
25	8307109	3	Washer 1/4	
26	8307110	4	Washer 3/8	
27	8307112	4	Washer 1/2	
28	8310026	3	Bolt 1/4 x 3/4	
29	8310382	8	Nut 1/4	
30	1320022	2	Clamp, Fuel Line	
31	8990147	1	Holder, Manual	
32	1001081049	1	Grommet, Split	
33	1001190229	1	Seat, Cab (See Separate Breakdown in this Section)	
34	1001102844	2	U-Bolt 1/4 x 1-1/4	
35	1001114867	1	Socket, 12V Power Point	
36	1001256519	1	Mount, Cab Step	
37	1001159878	1	Support, Armrest	
38	1001170738	1	Gauge	
39	1001210703	1	Controller	
40	1001264554	1	Accelerator (Note: No Serviceable Parts - Purchase Complete Assembly)	
41	1001183164	1	Reservoir, Brake Valve	
42	1001246736	1	Cab, Open (See Separate Breakdown in this Section)	
43	1001223052	1	Assembly, Brake (See Separate Breakdown in CONTROLS Section)	
44	1001201658	1	Hose	
45	1001207963	1	Plug, 5/8	
46	4710600	2	Washer	
47	1001265914	1	Cover, Pedal	

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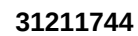
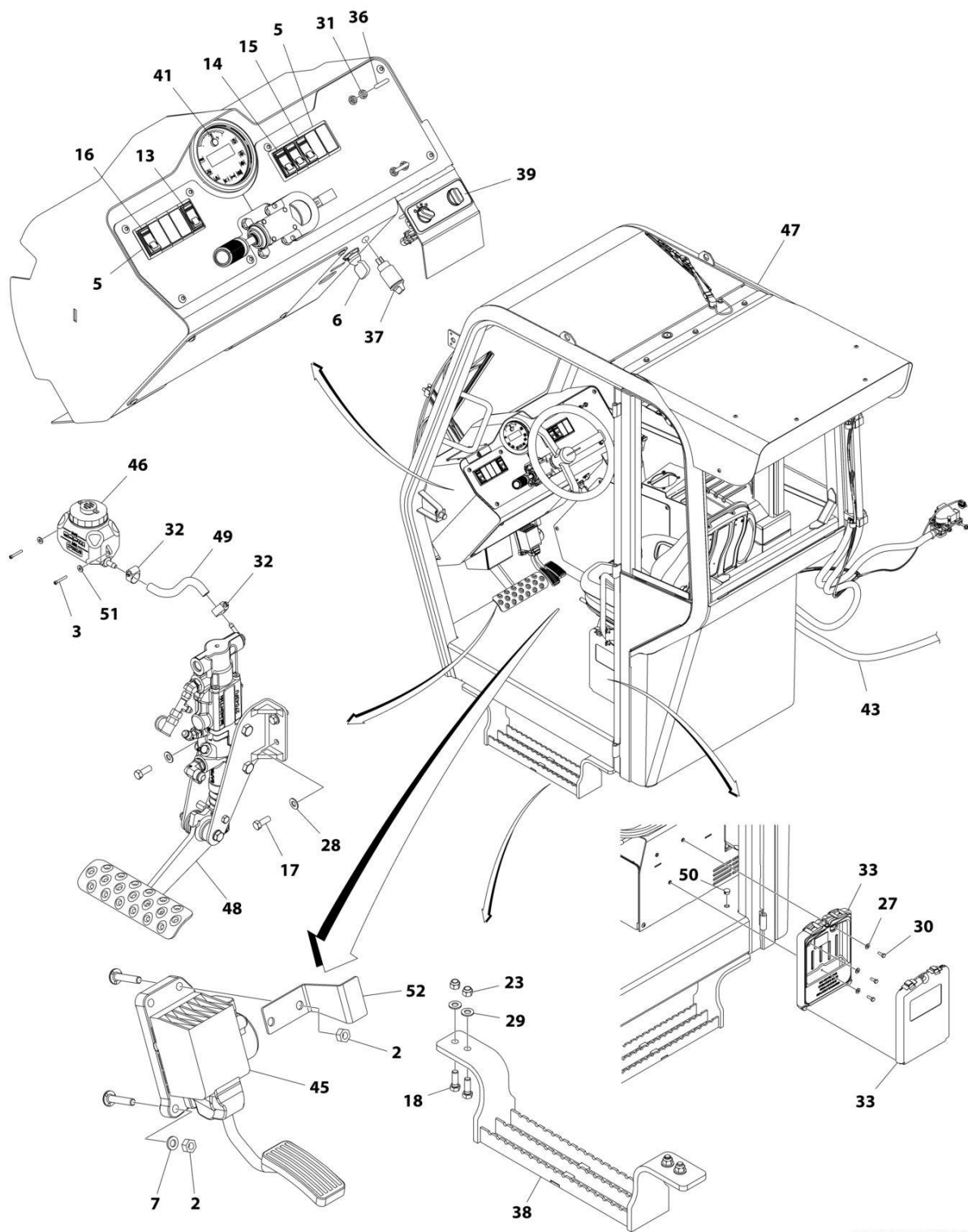


FIGURE 6-3. OPEN CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001246736	Ref	CAB OPEN	D
1	8303034	25	Screw 1/4 x 3/4	
2	8310085	2	Nut M10	
3	1001149227	3	Screw 5/16 x 1	
4	1001160788	1	Panel, RH Console Access Plate	
5	1001160790	1	Panel, LH Dash Cover	
6	1001160791	1	Panel, RH Dash Cover	
7	1001160815	1	Panel, Roof Cover	
8	1001165617	1	Assembly, Side Console Access Panel	
9	1001202189	1	Door, Brake Reservoir	
10	1001202202	2	Nut	
11	1001202615	2	Cap, Silicon Stud Cover	
12	1001202746	1	Panel, Brake Access Plate	
13	1001246735	1	Cab Weldment	

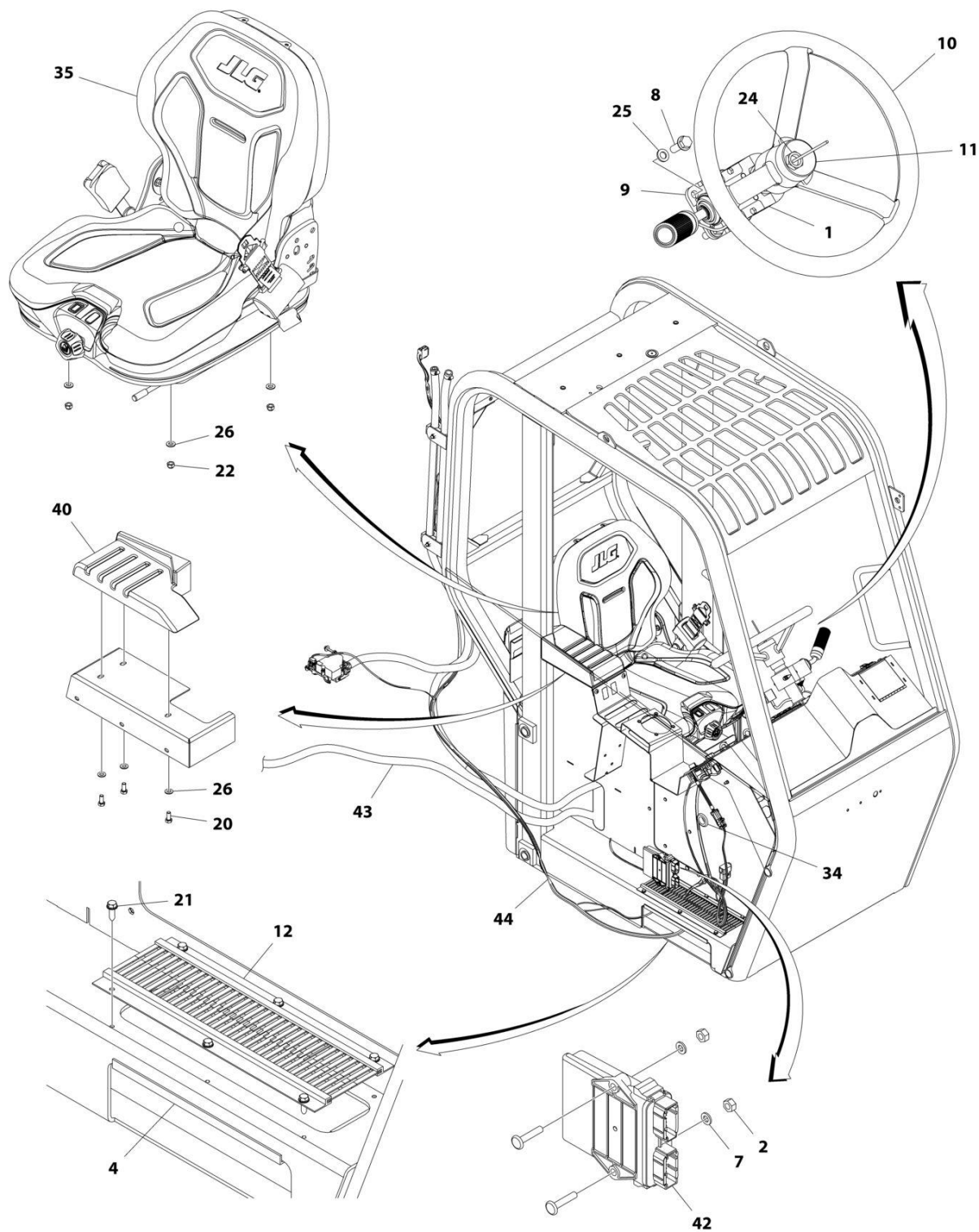
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FIGURE 6-4. ENCLOSED CAB WITH HEATER/AC INSTALLATION



ART_1001185776_I_10F2

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ART_1001185776_I_20F2

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FIGURE 6-4. ENCLOSED CAB WITH HEATER/AC INSTALLATION

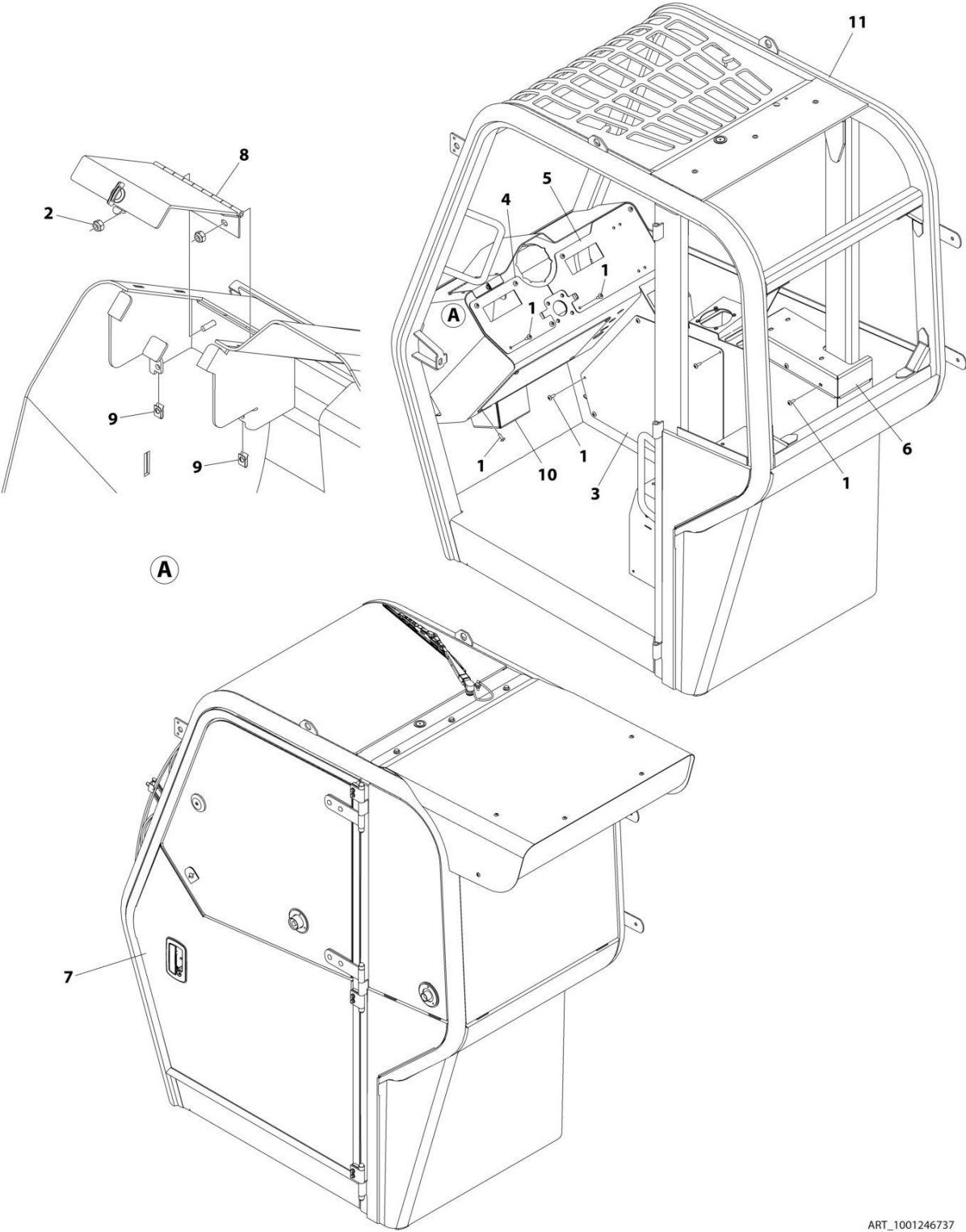
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001185776	Ref	ENCLOSED CAB WITH HEATER INSTALLATION	I
1	1600429	1	Selector, Transmission Control	
2	3311401	5	Nut 1/4	
3	3930610	2	Bolt 6 x 5/8	
4	4060806	11 in	Shield, Flex Trim, 5/16	
5	4360569	2	Switch, Bezel	
6	4360690	1	Switch, Ignition	
6	8035807	1	Key (with cover)	
7	4761400	3	Washer 1/4	
8	5251014	4	Bolt M10 x 30	
9	7138833	1	Column, Steering	
10	7138836	1	Wheel, Steering	
11	7138878	1	Button, Horn	
12	7138944	2	Strips, Brush	
13	8223037	1	Switch, Steer Select	
14	8223043	2	Switch, Windscreen Wiper	
15	8223044	1	Switch, Windscreen Washer	
16	8223054	1	Switch, Park Brake	
17	8303620	4	Bolt 3/8 x 1	
18	8303626	4	Bolt 1/2 x 1-1/2	
20	8303697	3	Bolt 5/16 x 3/4	
21	8303982	6	Screw 1/4 x 3/4	
22	8305626	4	Nut 5/16	
23	8305644	4	Nut 1/2	
24	8305916	1	Nut, Steering Column	
25	8307023	4	Washer M10	
26	8307106	7	Washer 5/16	
27	8307109	3	Washer 1/4	
28	8307110	4	Washer 3/8	
29	8307112	4	Washer 1/2	
30	8310026	3	Bolt 1/4 x 3/4	
31	8310382	8	Nut 1/4	
32	1320022	2	Clamp, Fuel Line	
33	8990147	1	Holder, Manual	
34	1001081049	1	Grommet, Split	
35	1001190229	1	Seat, Cab (See Separate Breakdown in this Section)	
36	1001102844	2	Bolt 1/4 x 1-1/4	
37	1001114867	1	Socket, 12V Power Point	
38	1001256519	1	Mount, Cab Step	
39	1001159850	1	Panel, Heater Control	
40	1001159878	1	Support, Armrest	
41	1001170738	1	Gauge	
42	1001210703	1	Controller	
43	1001171807	1	Installation, Cab Heater Lines (See Separate Breakdown in this Section)	
44	1001178347	1	Harness, HVAC (See Separate Breakdown in ELECTRICAL Section)	
45	1001264554	1	Accelerator (Note: No Serviceable Parts - Purchase Complete Assembly)	
46	1001183164	1	Reservoir, Brake Valve	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	1001246737	1	Cab, Enclosed with Heater (See Separate Breakdown in this Section)	
48	1001223052	1	Assembly, Brake (See Separate Breakdown in CONTROLS Section)	
49	1001201658	1	Hose	
50	1001207963	1	Plug, 5/8	
51	4710600	2	Washer #6	
52	1001265914	1	Cover, Pedal	

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FIGURE 6-5. CAB, ENCLOSED WITH HEATER



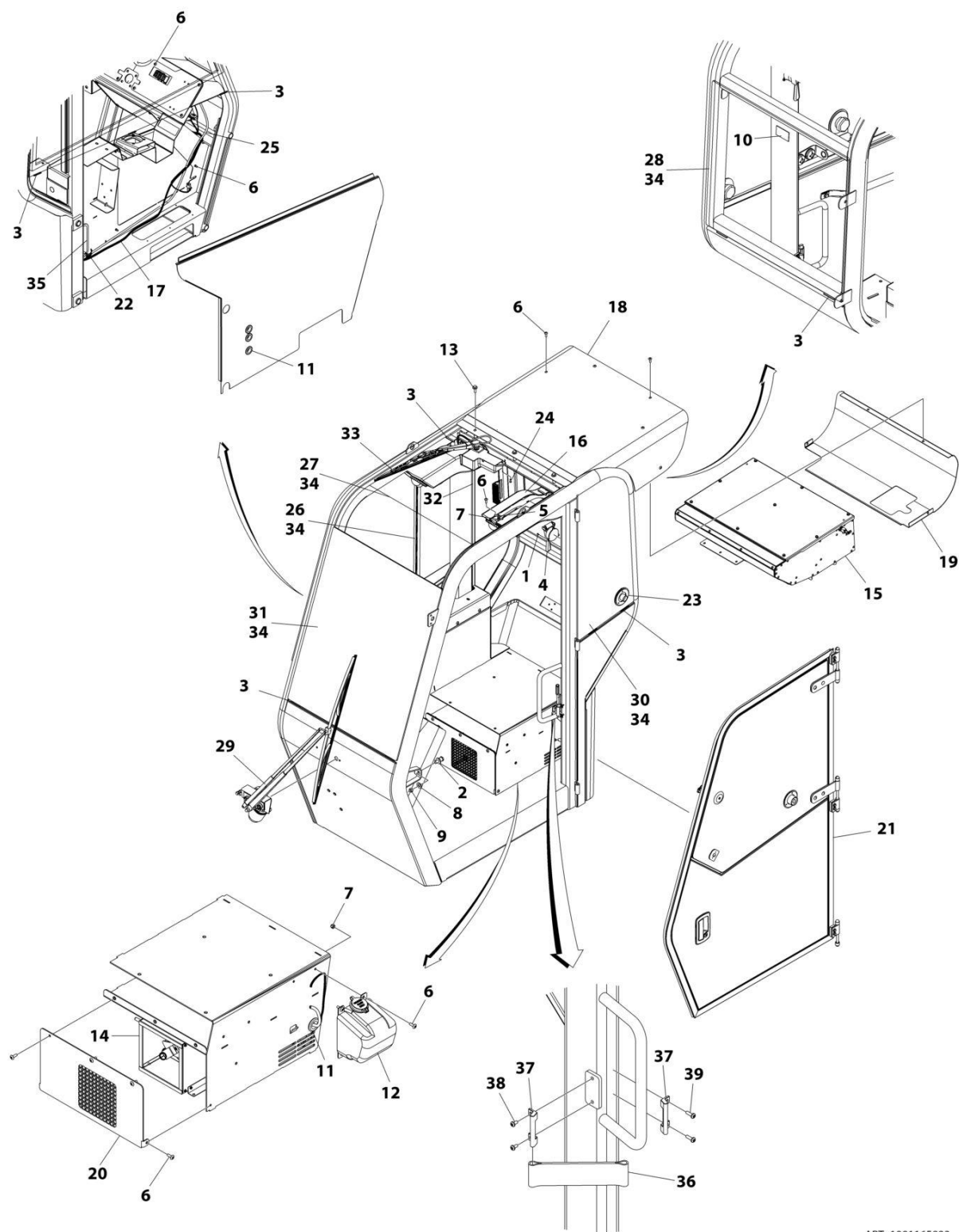
ART_1001246737

FIGURE 6-5. CAB, ENCLOSED WITH HEATER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001246737	Ref	CAB ENCLOSED WITH HEATER	G
1	8303034	22	Screw 1/4 x 3/4	
2	8310085	2	Nut	
3	1001160788	1	Panel, RH Console Access Plate	
4	1001160790	1	Panel, LH Dash Cover	
5	1001160791	1	Panel, RH Dash Cover	
6	1001165617	1	Assembly, Side Console Access Panel	
7	1001165823	1	Enclosure, Cab (See Separate Breakdown in this Section)	
8	1001202189	1	Door, Brake Reservoir	
9	1001202202	2	Nut	
10	1001202746	1	Panel, Brake Access Plate	
11	See Note	NSS	Cab (Purchase Complete Assembly)	

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FIGURE 6-6. CAB ENCLOSURE



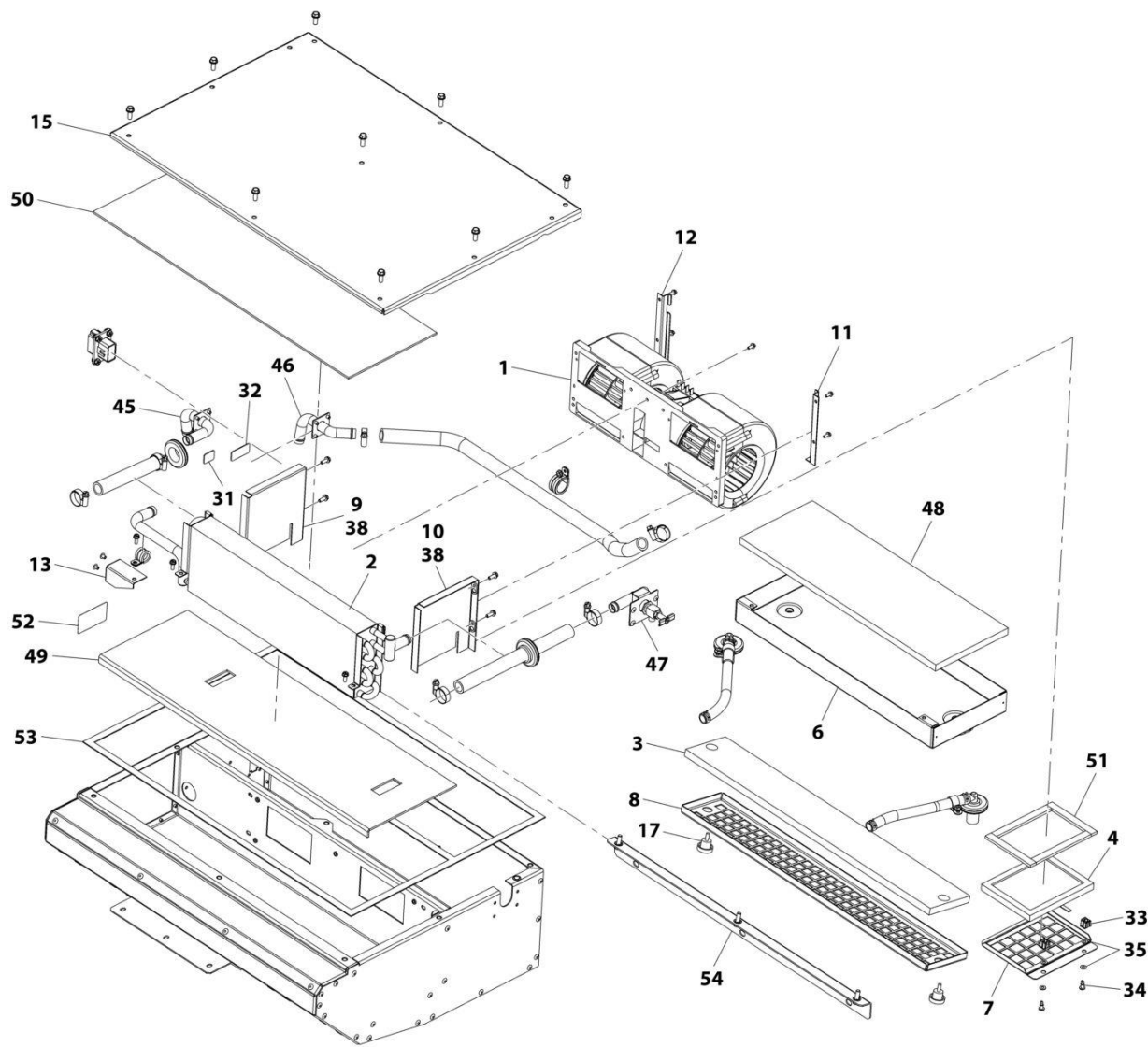
ART_1001165823

FIGURE 6-6. CAB ENCLOSURE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165823	Ref	CAB ENCLOSURE	O
1	91404298	3	Rivet	
2	1001109478	1	Latch, Striker	
3	1001181968	13	Mould, Setting Block	
4	91404301	1	Hammer, Emergency	
5	4711400	2	Washer 1/4	
6	8303034	33	Screw 1/4 x 3/4	
7	8305624	4	Nut 1/4	
8	8307112	1	Washer 1/2	
9	8310109	1	Nut 7/164	
10	91404299	1	Decal, Escape	
11	1001081049	4	Grommet, Split	
12	1001111112	1	Tank, Window Washer Fluid	
12	70025480	1	Pump, Reservoir	
13	1001149227	3	Screw 5/16 x 1	
14	1001159856	1	Heater Assembly - Floor (See Separate Breakdown in this Section)	
15	1001159860	1	HVAC Assembly - Roof Top (See Separate Breakdown in this Section)	
16	1001160785	2	Duct, HVAC	
17	1001178349	1	Harness, Wiper (See Separate Breakdown in ELECTRICAL Section)	
18	1001164282	1	Hood, Top	
19	1001164284	1	Hood, Bottom	
20	1001164717	1	Panel, Floor Heater Access	
21	1001165806	1	Door, Cab (See Separate Breakdown in this Section)	
22	1001008742	1	Coupling, Tee	
23	1001081243	1	Retainer, Door Window Hold	
24	0630464	1	Screw #10 x 1/2	
25	82033997	168 in	Hose, Washer Fluid	
26	8036050	1	Window, RH Slider (See Separate Breakdown in this Section)	
27	7138958	1	Glass, Skylight	
28	1001181707	1	Window, Rear	
29	8036056	1	Assembly, Front Wiper (See Separate Breakdown in this Section)	
30	1001181893	1	Window, LH Rear	
31	1001181903	1	Window, Windshield	
32	1001182091	1	Duct, Wire	
33	1001182470	1	Wiper, Skylight (See Separate Breakdown in this Section)	
34	1001177746	AR	Compound, Locking	
35	4060803	16.5 in	Flex-Trim	
36	80384218	1	Strap, Door	
37	1001196128	2	Bracket, Strap Holder	
38	1001197098	2	Screw #10 x 3/8	
39	1001197099	2	Screw #10 x 5/8	

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FIGURE 6-7. ROOF HEATER BOX



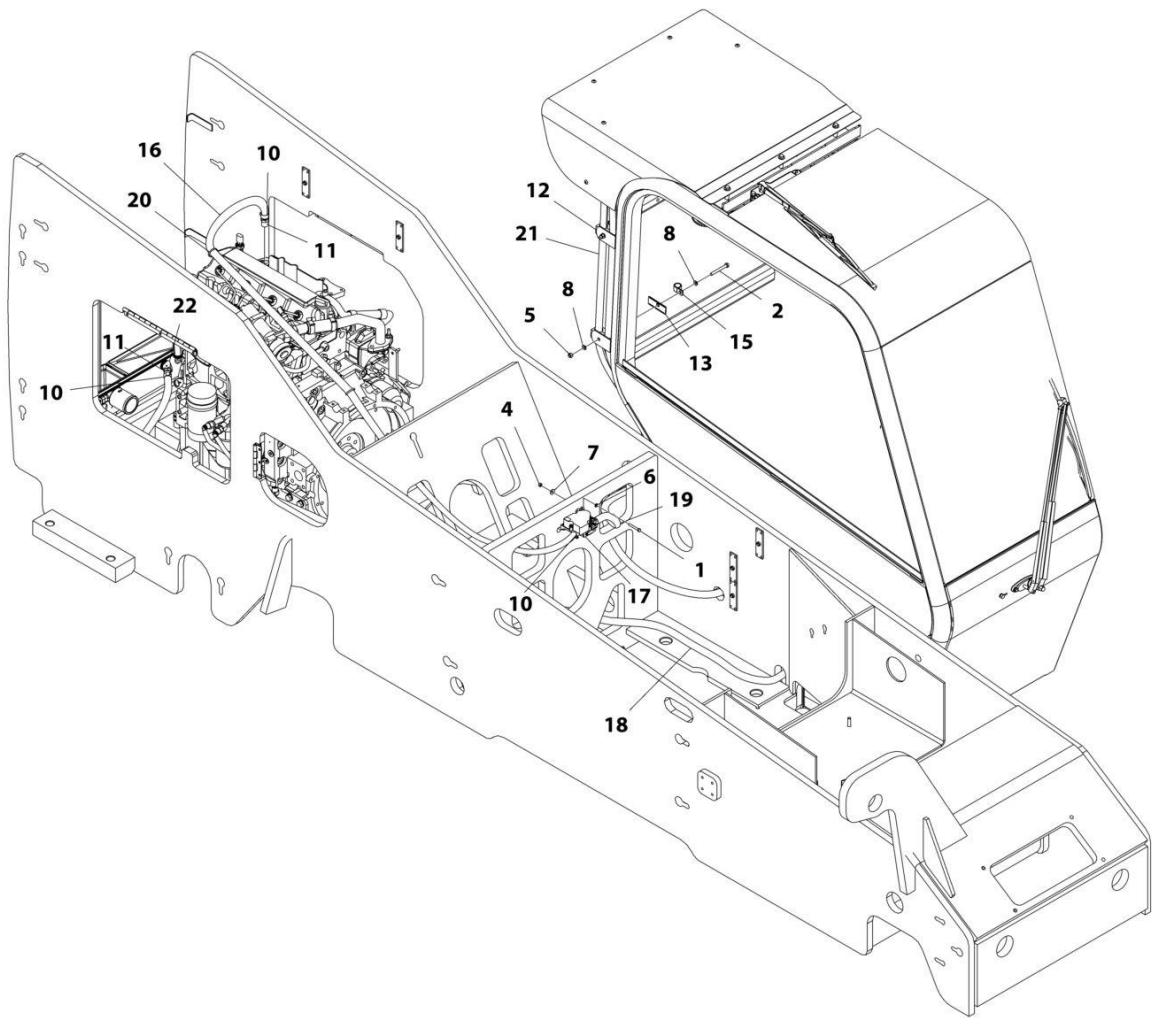
ART_1001159860-B

FIGURE 6-7. ROOF HEATER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159860	Ref	Roof Heater Box	B
1	70026978	1	Blower, 12V	
2	70026981	1	Heater Coil	
3	70026982	1	Air Filter	
4	70026983	1	Air Filter	
6	70029822	1	Drain Pan	
7	70029823	1	Cover, Air Filter	
8	70029824	1	Cover, Air Filter	
9	70029825	1	Bracket, Coil (R)	
10	70029826	1	Bracket, Coil (L)	
11	70029827	1	Bracket, Blower	
12	70029828	1	Bracket, Blower	
13	70029829	1	Support Bracket	
15	70029830	1	Cover	
16	70029831	1	Harness (not shown)	
17	8036726	2	Knob	
31	70029832	1	Overlay In	
32	70029833	1	Overlay Out	
33	70029834	2	Receptacle	
34	70029835	2	Stud, Oval Slotted	
35	70029836	4	Retainer	
38	70029837	2	Panel, Coil Clip	
45	70029838	1	Tube Assembly	
46	70029839	1	Tube Assembly	
47	70026991	1	Valve, Bleeder	
48	70029840	1	Foam	
49	70029841	1	Foam, Closed Cell	
50	70029842	1	Foam, Closed Cell	
51	70026123	1	Foam, 3/16X180	
52	See Note	1	Foam 456mm	
53	70029843	1	Foam, Closed Cell	
54	70029844	1	Bracket Assembly	

SECTION 6 - CAB

FIGURE 6-8. CAB HEATER LINES INSTALLATION



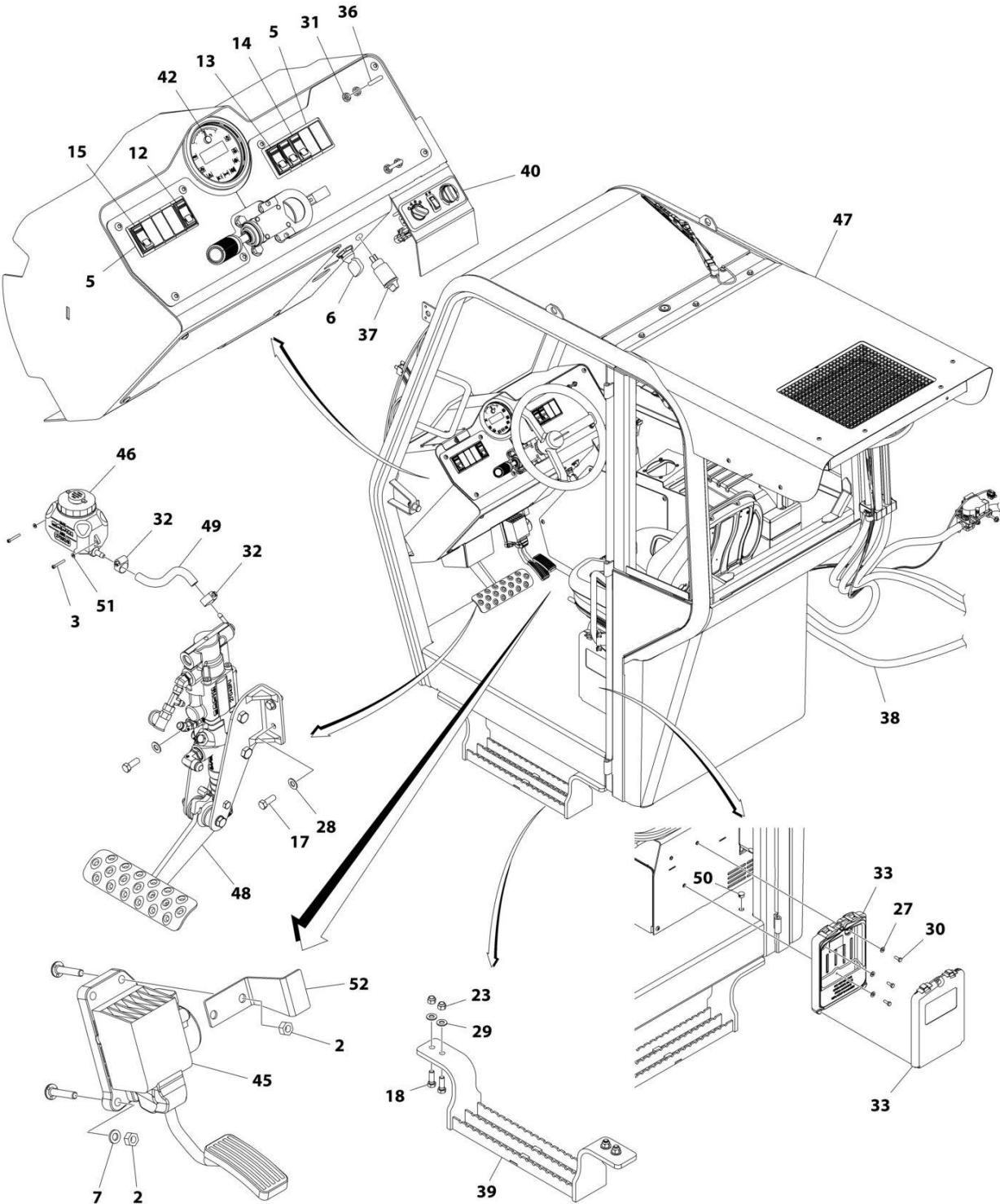
ART_1001171807-D

FIGURE 6-8. CAB HEATER LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171807	Ref	Cab Heater Lines Installation	G
1	0700617	2	Bolt, M6X45	
2	0700822	2	Bolt, M8X70	
4	3290605	2	Nut, Lock M6X1	
5	3290805	2	Nut, Lock M8X1-1/4	
6	4811700	2	Washer, M6	
7	4811702	2	Washer, M6	
8	4811900	4	Washer, M8	
10	8405007	8	Clamp, Gear	
11	8430048	2	Reducer, Hose Barb	
12	77133133	2	Clamp, Twin	
13	77133134	2	Clamp, Cover Plate	
15	91043147	2	Clamp, Support	
16	1001158404	1	Hose, Cab Heater	
17	1001159844	1	Valve, Heater (See Separate Breakdown in this section)	
18	1001172537	1	Hose, Heater Return	
19	1001172561	1	Hose, Heater Send Valve to Roof	
20	8584001	4	Wrap, Tie	
21	1001173217	1	Hose, Heater Roof to Floor	
22	1001179229	1	Fitting, 45	

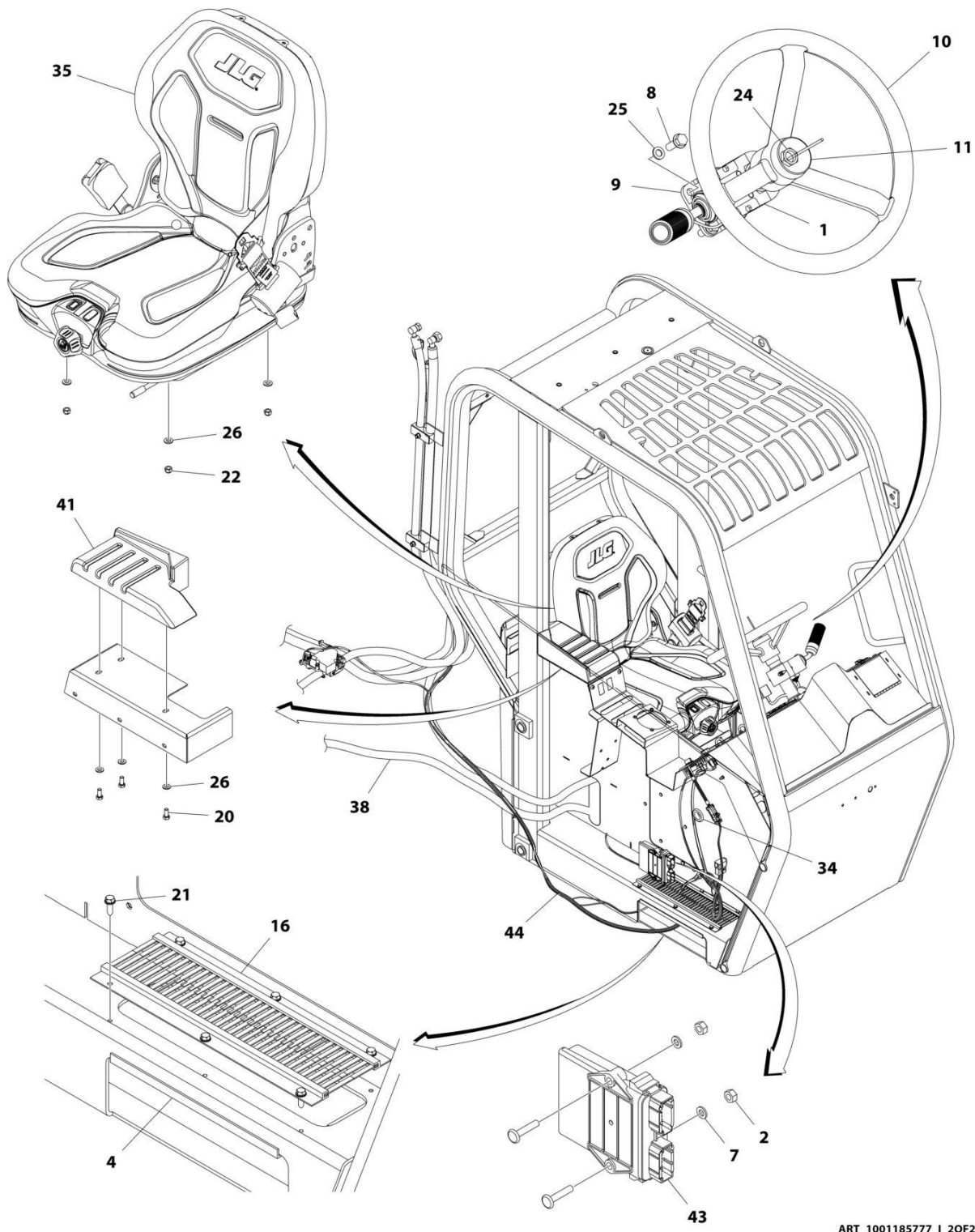
SECTION 6 - CAB

FIGURE 6-9. ENCLOSED CAB WITH HEATER/AC INSTALLATION



ART_1001185777_I_10F2

SECTION 6 - CAB



ART_1001185777_I_20F2

SECTION 6 - CAB

FIGURE 6-9. ENCLOSED CAB WITH HEATER/AC INSTALLATION

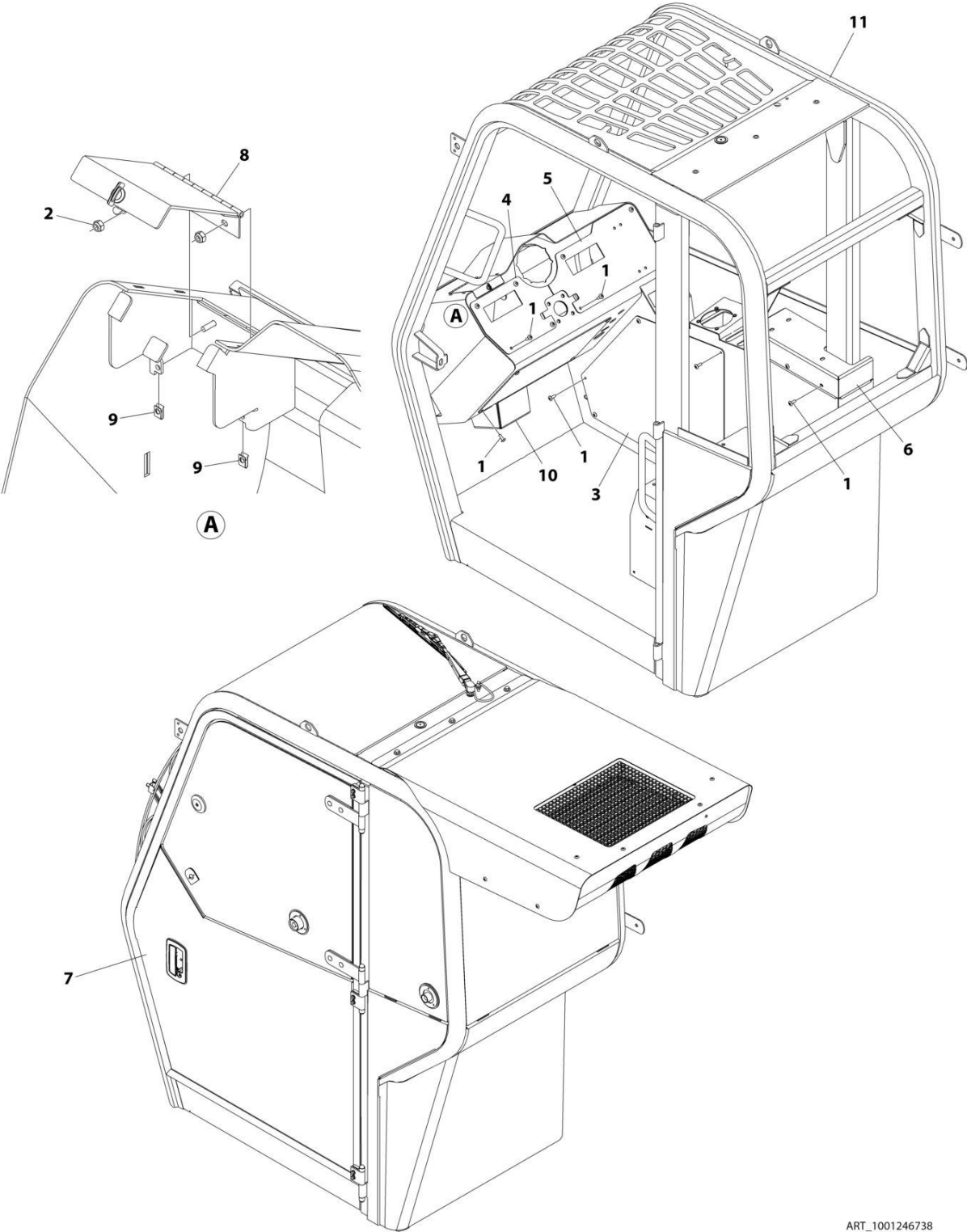
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001185777	Ref	ENCLOSED CAB WITH HEATER/AC INSTALLATION	I
1	1600429	1	Selector, Transmission Control	
2	3311401	5	Nut 1/4	
3	3930610	2	Bolt #6 x 5/8	
4	4060806	11 in	Shield, Flex Trim 5/16	
5	4360569	2	Switch, Bezel	
6	4360690	1	Switch, Ignition	
7	4761400	3	Washer 1/4	
8	5251014	4	Bolt M10 x 30	
9	7138833	1	Column, Steering	
10	7138836	1	Wheel, Steering	
11	7138878	1	Button, Horn	
12	8223037	1	Switch, Steer Select	
13	8223043	2	Switch, Windscreen Wiper	
14	8223044	1	Switch, Windscreen Washer	
15	8223054	1	Switch, Park Brake	
16	7138944	2	Strips, Brush	
17	8303620	4	Bolt 3/8 x 1	
18	8303626	4	Bolt 1/2 x 1-1/2	
20	8303697	3	Bolt 5/16 x 3/4	
21	8303982	6	Screw 1/4 x 3/4	
22	8305626	4	Nut 5/16	
23	8305644	4	Nut 1/2	
24	8305916	1	Nut, Steering Column	
25	8307023	4	Washer M10	
26	8307106	7	Washer 5/16	
27	8307109	3	Washer 1/4	
28	8307110	4	Washer 3/8	
29	8307112	4	Washer 1/2	
30	8310026	3	Bolt 1/4 x 3/4	
31	8310382	8	Nut 1/4	
32	1320022	2	Clamp, Fuel Line	
33	8990147	1	Holder, Manual	
34	1001081049	1	Grommet	
35	1001190229	1	Seat, Cab (See Separate Breakdown in this Section)	
36	1001102844	2	U-Bolt 1/4 x 1-1/4	
37	1001114867	1	Socket, 12V Power Point	
38	1001171806	1	Installation, Cab Heater/AC Lines (See Separate Breakdown in this Section)	
39	1001256519	1	Mount, Cab Step	
40	1001159851	1	Panel, HVAC Control	
40	1001204362	1	Switch, Fan	
40	7301265	1	Switch, A/C	
41	1001159878	1	Support, Armrest	
42	1001170738	1	Gauge	
43	1001210703	1	Controller	
44	1001178347	1	Harness, HVAC (See Separate Breakdown in ELECTRICAL Section)	
45	1001264554	1	Accelerator (Note: No Serviceable Parts - Purchase Complete Assembly)	

SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	1001183164	1	Reservoir, Brake Valve	
47	1001246738	1	Cab, Enclosed with Heater/AC (See Separate Breakdown in this Section)	
48	1001223052	1	Assembly, Brake (See Separate Breakdown in CONTROLS Section)	
49	1001201658	1	Hose	
50	1001207963	1	Plug, 5/8	
51	4710600	2	Washer #6	
52	1001265914	1	Cover, Pedal	

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FIGURE 6-10. ENCLOSED CAB WITH HEATER



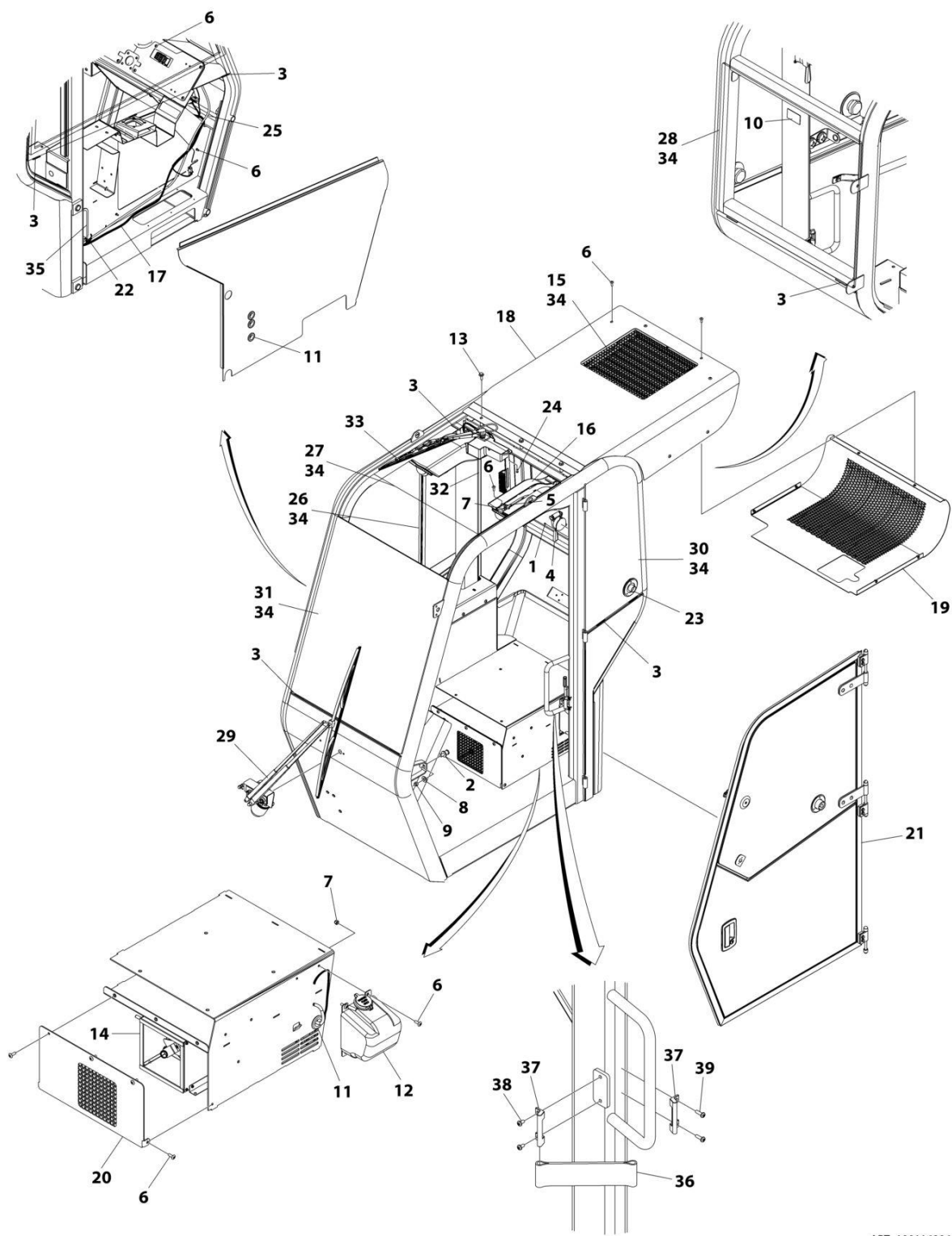
ART_1001246738

FIGURE 6-10. ENCLOSED CAB WITH HEATER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001246738	Ref	CAB ENCLOSED WITH HEATER/AC	F
1	8303034	22	Screw 1/4 x 3/4	
2	8310085	2	Nut	
3	1001160788	1	Panel, RH Console Access Plate	
4	1001160790	1	Panel, LH Dash Cover	
5	1001160791	1	Panel, RH Dash Cover	
6	1001165617	1	Assembly, Side Console Access Panel	
7	1001168066	1	Enclosure, Cab HVAC (See Separate Breakdown in this Section)	
8	1001202189	1	Door, Brake Reservoir	
9	1001202202	2	Nut M6	
10	1001202746	1	Panel, Brake Access Plate	
11	1001246735	1	Cab Weldment	

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FIGURE 6-11. CAB HVAC ENCLOSURE



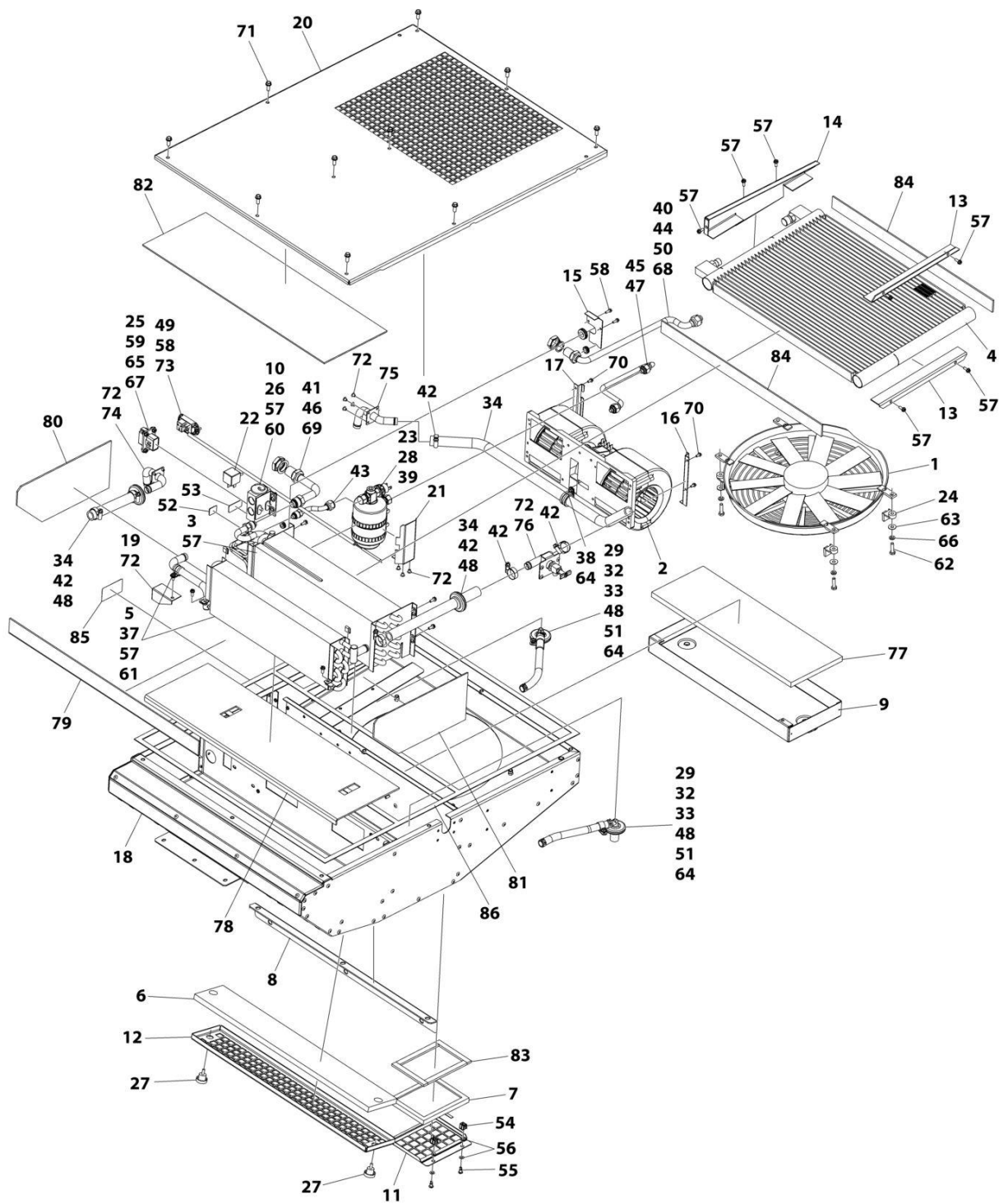
ART_1001168066

FIGURE 6-11. CAB HVAC ENCLOSURE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168066	Ref	CAB HVAC ENCLOSURE	O
1	91404298	3	Rivet	
2	1001109478	1	Latch, Striker	
3	1001181968	13	Mould, Setting Block	
4	91404301	1	Hammer, Emergency	
5	4711400	2	Washer 1/4	
6	8303034	35	Screw 1/4 x 3/4	
7	8305624	4	Nut 1/4	
8	8307112	1	Washer 1/2	
9	8310109	1	Nut 7/16	
10	91404299	1	Decal, Escape	
11	1001081049	4	Grommet, Split	
12	1001111112	1	Tank, Window Washer Fluid	
12	70025480	1	Pump, Reservoir	
13	1001149227	3	Screw 5/16 x 1	
14	1001159856	1	Heater, Floor (See Separate Breakdown in this Section)	
15	1001159861	1	Box, Roof (See Separate Breakdown in this Section)	
16	1001160785	2	Duct, HVAC	
17	1001178349	1	Harness, Wiper (See Separate Breakdown in ELECTRICAL Section)	
18	1001164096	1	Hood, Top	
19	1001164099	1	Hood, Bottom	
20	1001164717	1	Panel, Floor Heater Access	
21	1001165806	1	Door, Cab (See Separate Breakdown in this Section)	
22	1001008742	1	Coupling, Tee	
23	1001081243	1	Retainer, Door Window Hold	
24	0630464	1	Screw #10 x 1/2	
25	82033997	168 in	Hose, Washer Fluid	
26	8036050	1	Window, RH Slider (See Separate Breakdown in this Section)	
27	7138958	1	Glass, Skylight	
28	1001181707	1	Window, Rear	
29	8036056	1	Assembly, Front Wiper (See Separate Breakdown in this Section)	
30	1001181893	1	Window, LH Rear	
31	1001181903	1	Window, Windshield	
32	1001182091	1	Duct, Wire	
33	1001182470	1	Wiper, Skylight (See Separate Breakdown in this Section)	
34	1001177746	AR	Compound, Locking	
35	4060803	16.5 in	Flex-Trim	
36	80384218	1	Strap, Door	
37	1001196128	2	Bracket, strap Holder	
38	1001197098	2	Screw #10 x 3/8	
39	1001197099	2	Screw #10 x 5/8	

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FIGURE 6-12. ROOF BOX HVAC



ART_1001159861

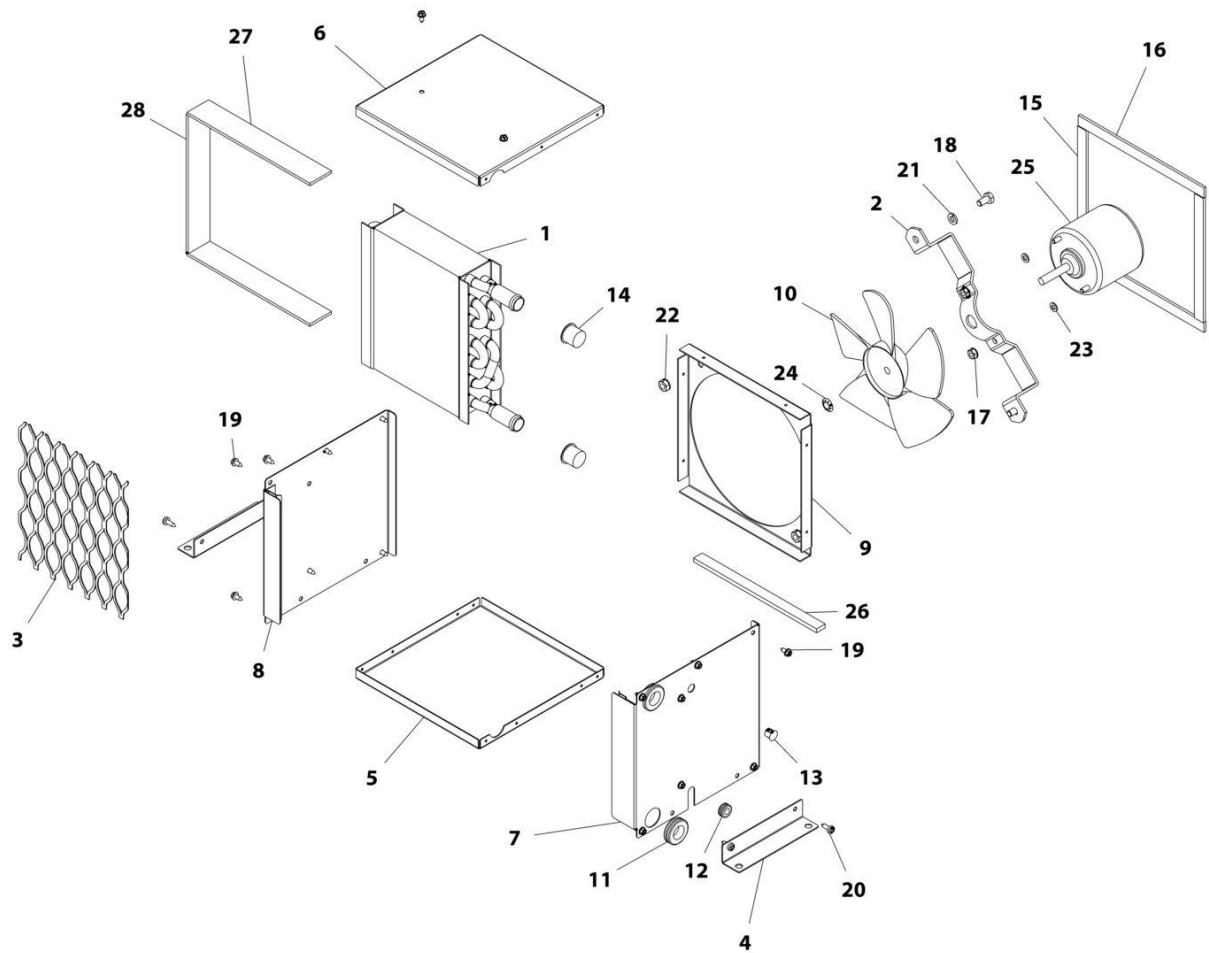
FIGURE 6-12. ROOF BOX HVAC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159861	Ref	ROOF BOX HVAC	B
1	70026945	1	Assembly, Fan	
2	70026978	1	Blower	
3	70026979	1	Coil, Evaporator	
4	70026980	1	Condenser	
5	70026981	1	Coil, Heater	
6	70026982	1	Filter, Air	
7	70026983	1	Filter, Air	
8	70030281	1	Bracket	
9	70029822	1	Pan, Drain	
10	NPN	1	Bracket	
11	70029823	1	Cover	
12	70029824	1	Cover	
13	NPN	2	Rail, Condenser	
14	NPN	1	Bracket, Condenser	
15	70031394	1	Bracket	
16	70029827	1	Bracket, Blower	
17	70029828	1	Bracket, Blower	
18	NPN	1	Housing	
19	70029829	1	Bracket	
20	70031395	1	Cover	
21	70031396	1	Bracket	
22	70026986	1	Relay	
23	70026854	1	Sensor, Pressure	
24	70029981	4	Mount, Fan	
25	70031397	1	Harness, Wiring	
26	70020876	1	Valve, Block	
27	8036726	2	Knob	
28	70026984	1	Drier, Receiver	
29	7029412	AR	Hose	
32	7029413	2	Fitting, 90	
33	7029415	4	Clamp	
34	70031398	AR	Hose	
37	70026987	1	Clamp	
38	70026988	1	Clamp	
39	70026989	2	Clamp	
40	70031402	1	Nut #8	
41	70031403	1	Nut #10	
42	70026990	6	Clamp	
43	70028782	1	Tube	
44	70028781	1	Tube	
45	70028780	1	Tube	
46	70028779	1	Tube	
47	70031404	1	Grommet	
48	70031405	4	Grommet	
49	70026111	1	Grommet	
50	70031406	1	Grommet	
51	NPN	2	Clamp	
52	70029832	1	Cover, In	
53	70029833	1	Cover, Out	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54	70029834	2	Connector	
55	70029835	2	Screw	
56	70029836	4	Washer	
57	NPN	16	Bolt #10 x 1/2	
58	NPN	5	Bolt #8 x 1/2	
59	NPN	8	Washer #8	
60	NPN	2	Bolt 1/4 x 1-1/2	
61	70029837	2	Clip	
62	NPN	4	Bolt 1/4 x 1	
63	NPN	6	Washer 1/4	
64	NPN	3	Nut #10	
65	NPN	4	Nut #8	
66	70029984	4	Washer 1/4	
67	NPN	4	Bolt #8 x 1/2	
68	70031413	1	Washer	
69	70031414	1	Washer	
70	NPN	5	Bolt #8 x 3/8	
71	NPN	10	Bolt 1/4 x 5/8	
72	NPN	17	Rivet	
73	70026985	1	Thermostat	
74	70029838	1	Tube	
75	70029839	1	Tube	
76	70026991	1	Valve, Bleeder	
77	70029840	1	Foam	
78	70029841	1	Foam	
79	70031420	1	Foam	
80	70031421	1	Foam	
81	70031422	1	Foam	
82	70029842	1	Foam	
83	70026123	1	Insulation	
84	70026124	2	Foam	
85	NPN	1	Decal	
86	70029843	1	Foam	

FIGURE 6-13. FLOOR HEATER



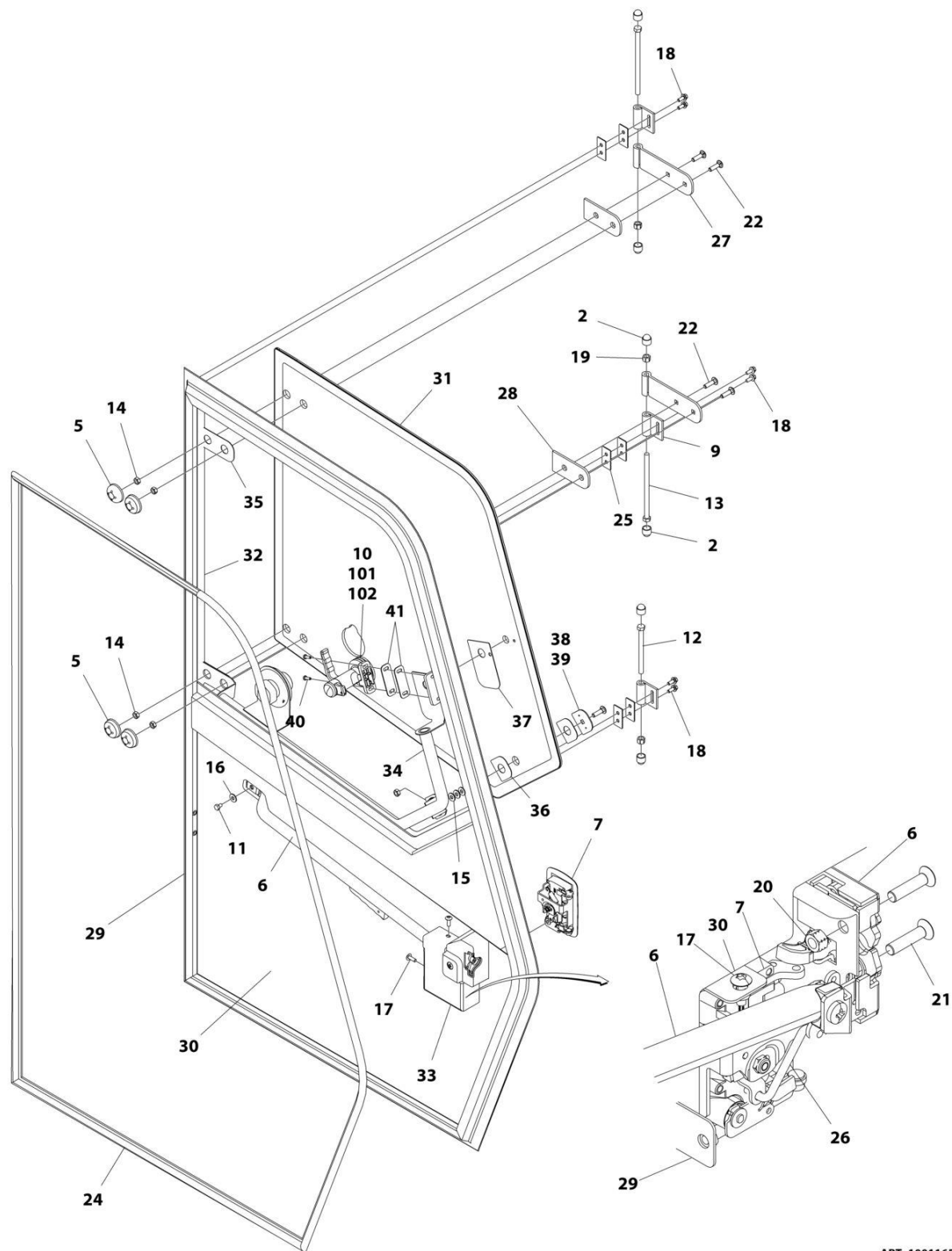
ART_1001159856-D

FIGURE 6-13. FLOOR HEATER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159856	Ref	Floor Heater	D
1	70026100	1	Coil, Heater	
2	70026101	1	Bracket, Motor	
3	70026102	1	Protector, Coil	
4	70026103	2	Bracket, Mounting	
5	70026104	1	Casing, Bottom	
6	70026105	1	Casing, Top	
7	70026106	1	Casing, RH Side	
8	70026107	1	Casing, LH Side	
9	70026108	1	Mount, Fan	
10	70026109	1	Fan	
11	70026110	2	Grommet	
12	70026111	1	Grommet, 3/8	
13	70026112	1	Plug, Hole 3/8	
14	70026113	2	Plug, 3/8	
15	70026114	2	Foam, 1/4X158	
16	70026114	2	Foam, 1/4X184	
17	70026115	2	Nut, 10-32	
18	70026116	2	Screw, 1/4-20X1/2	
19	70026117	16	Screw, 8X3/8	
20	70024855	4	Screw, Tap 8X1/2	
21	70026118	2	Lockwasher, 1/4	
22	70026119	2	Nut, Kep 1/4-20	
23	70026120	2	Washer, M5	
24	70026121	1	Retainer	
25	70026122	1	Motor Assembly, 12V	
26	70026123	1	Foam, 3/16X180	
27	70026124	2	Foam, 1/4X180	
28	70026124	1	Foam, 1/4X175	

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FIGURE 6-14. CAB DOOR ASSEMBLY



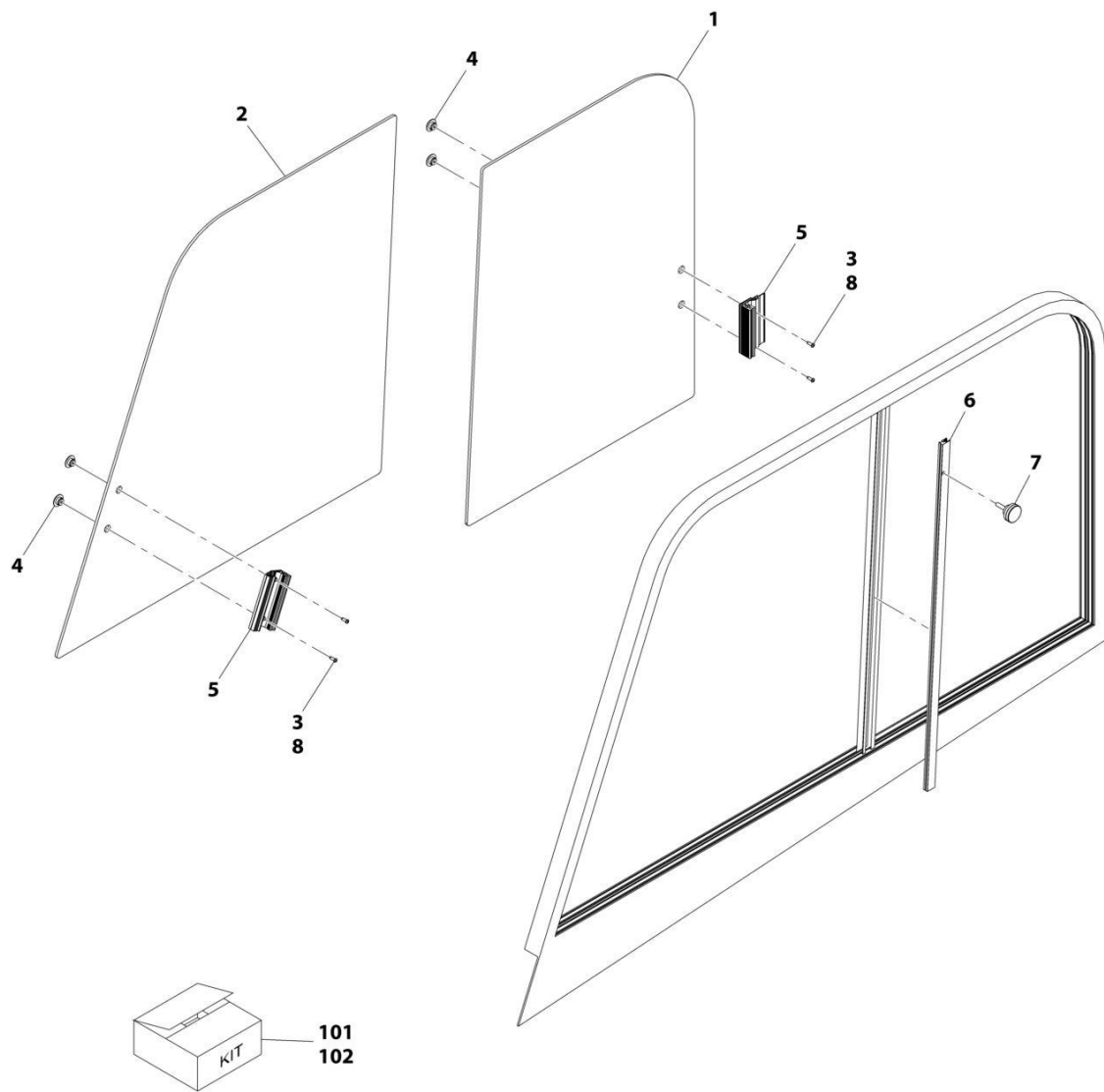
ART_1001165806

FIGURE 6-14. CAB DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165806	Ref	CAB DOOR	I
1	1001183104	2	Fastener, Latch	
2	1001182663	6	Cap, Hex Dome	
5	1001081246	5	Cap, Nut M6	
6	1001081247	1	Handle, Interior Cab Door	
7	1001081241	1	Handle, Exterior Cab Door	
7	70021948	1	Key, Cab Door	
9	1001183209	3	Hinge, Slotted	
10	1001220260	1	Handle, Window	
11	0641403	1	Bolt 1/4 x 3/8	
12	0641636	1	Bolt 3/8 x 4-1/2	
13	0641652	2	Bolt 3/8 x 6-1/2	
14	3290801	5	Nut M8	
15	4711500	3	Washer 5/16	
16	4751400	1	Washer 1/4	
17	8303034	2	Screw 1/4 x 3/4	
18	8303119	6	Screw 1/4 x 5/8	
19	8305603	3	Nut 3/8	
20	8305638	2	Nut M8	
21	1001094312	2	Screw M8 x 30	
22	1001108575	5	Screw M8 x 30	
24	1001182408	1	Seal, Door	
25	1001182135	6	Shim, Door Hinge	
26	1001182514	1	Linkage, Exterior Latch	
27	1001081242	2	Hinge, Door	
28	1001081266	2	Spacer, Hinge	
29	1001182842	1	Weldment, Door	
30	1001182800	1	Foam, Door	
31	1001182808	1	Glass, Door	
32	1001182810	1	Seal, Glass	
33	1001182865	1	Cover, Latch	
34	1001182871	1	Handle, Door Glass	
35	1001182882	2	Shim, Hinge	
36	1001182883	2	Shim, Handle	
37	1001182884	1	Shim, Handle Latch	
38	1001183084	1	Plate, Window	
39	1001177746	1	Compound, Locking	
40	1001197099	2	Screw 1/4 x 5/8	
41	1001265272	AR	Shim	
101	1001165276	1	Striker Plate	
102	1001165275	1	Window Latch	
103	1001169787	1	Latch Seal (not shown)	
201	1001280231	1	Door Window Kit (Includes Items 5, 10, 14, 15, 22, 27, 28, 31, 32, 34-41 & Window Lock)	

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FIGURE 6-15. RH SLIDER WINDOW



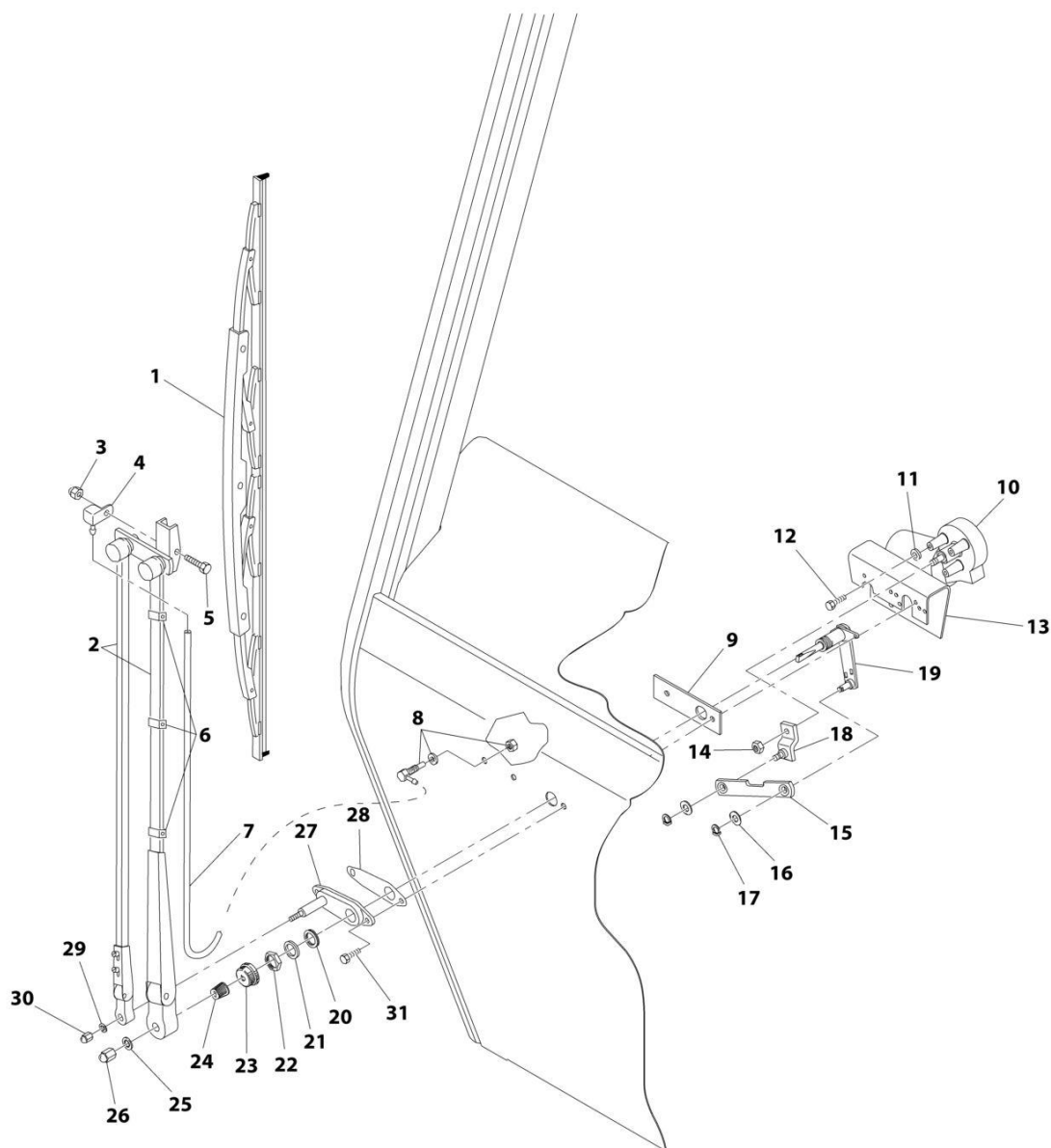
ART_8036050-B

FIGURE 6-15. RH SLIDER WINDOW

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8036050	Ref	RH Slider Window	B
1	8036197	1	Glass, Rear Slide	
2	8036196	1	Glass, Front Slide	
3	Kit	NSS	Capscrew (Use Item 101)	
4	Kit	NSS	Spacer (Use Item 101)	
5	Kit	NSS	Latch (Use Item 101)	
6	Kit	NSS	Block, Lock (Use Item 102)	
7	Kit	NSS	Assembly, Knob (Use Item 102)	
8	8035523	AR	Compound, Locking	
101	80384445	1	Latch Assembly Kit (with Latch & Slider - Worthington Windows) (includes items 3 thru 5)	
101	8036199	1	Latch Assembly Kit (with Two Latches - Young Windows) (includes items 3 thru 5)	
102	8036198	1	Friction Lock Assembly Kit (includes items 6 & 7)	

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FIGURE 6-16. FRONT WIPER ASSEMBLY

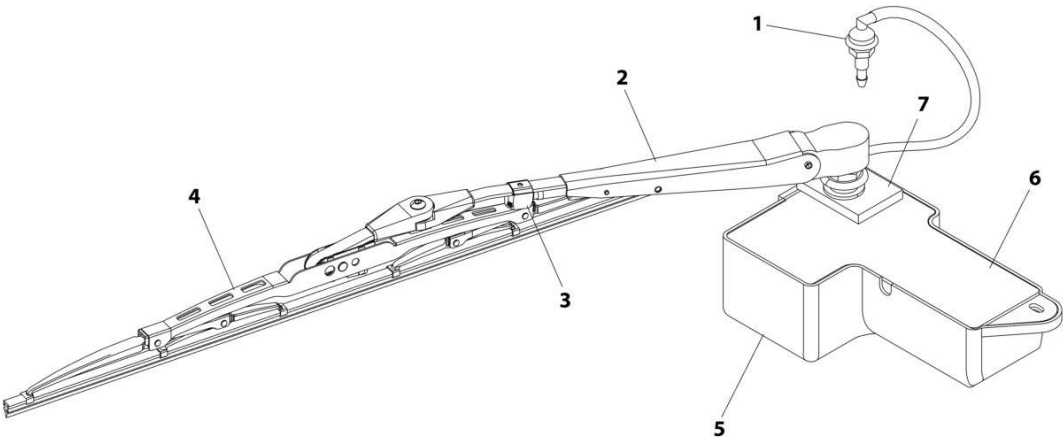


ART_8036056-A

FIGURE 6-16. FRONT WIPER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8036056	Ref	Front Wiper Assembly	A
1	80384213	1	Blade, Wiper	
2	8035393	1	Assembly, Wiper Arm	
3	N.S.S.	1	Nut, Lock	
4	N.S.S.	1	Nozzle, Sprayer	
5	N.S.S.	1	Bolt	
6	N.S.S.	3	Clip, Hose	
7	N.S.S.	1	Hose	
8	1001081310	1	Adaptor, Wet Arm	
9	8036100	1	Spacer, Front Wiper Motor	
10	7029860	1	Motor, Wiper 12V	
11	N.S.S.	3	Washer, 5/16	
12	N.S.S.	3	Bolt, 1/4-28X1	
13	N.S.S.	1	Bracket, Wiper Motor	
14	N.S.S.	1	Nut	
15	8035409	1	Link, Connecting	
16	N.S.S.	2	Washer, 0.56X0.251X0.015	
17	N.S.S.	2	Clip, Spring	
18	8035411	1	Drive, Wiper Arm	
19	8036099	1	Assembly, Wiper Shaft and Pivot	
20	N.S.S.	1	Washer, Rubber	
21	N.S.S.	1	Washer, Metal	
22	N.S.S.	1	Nut, Jam 11/16-18	
23	N.S.S.	1	Cap, Rubber	
24	N.S.S.	1	Driver, Knurled	
25	N.S.S.	1	Washer, Lock 3/8	
26	N.S.S.	1	Nut, Acorn 1/4-28	
27	8034815	1	Assembly, Panto Adaptor	
28	N.S.S.	1	Gasket	
29	N.S.S.	1	Washer, Lock 1/4	
30	N.S.S.	1	Nut, Acorn 1/4-28	
31	80384207	2	Bolt, 1/4-28X3/4	

FIGURE 6-17. SKYLIGHT WIPER ASSEMBLY



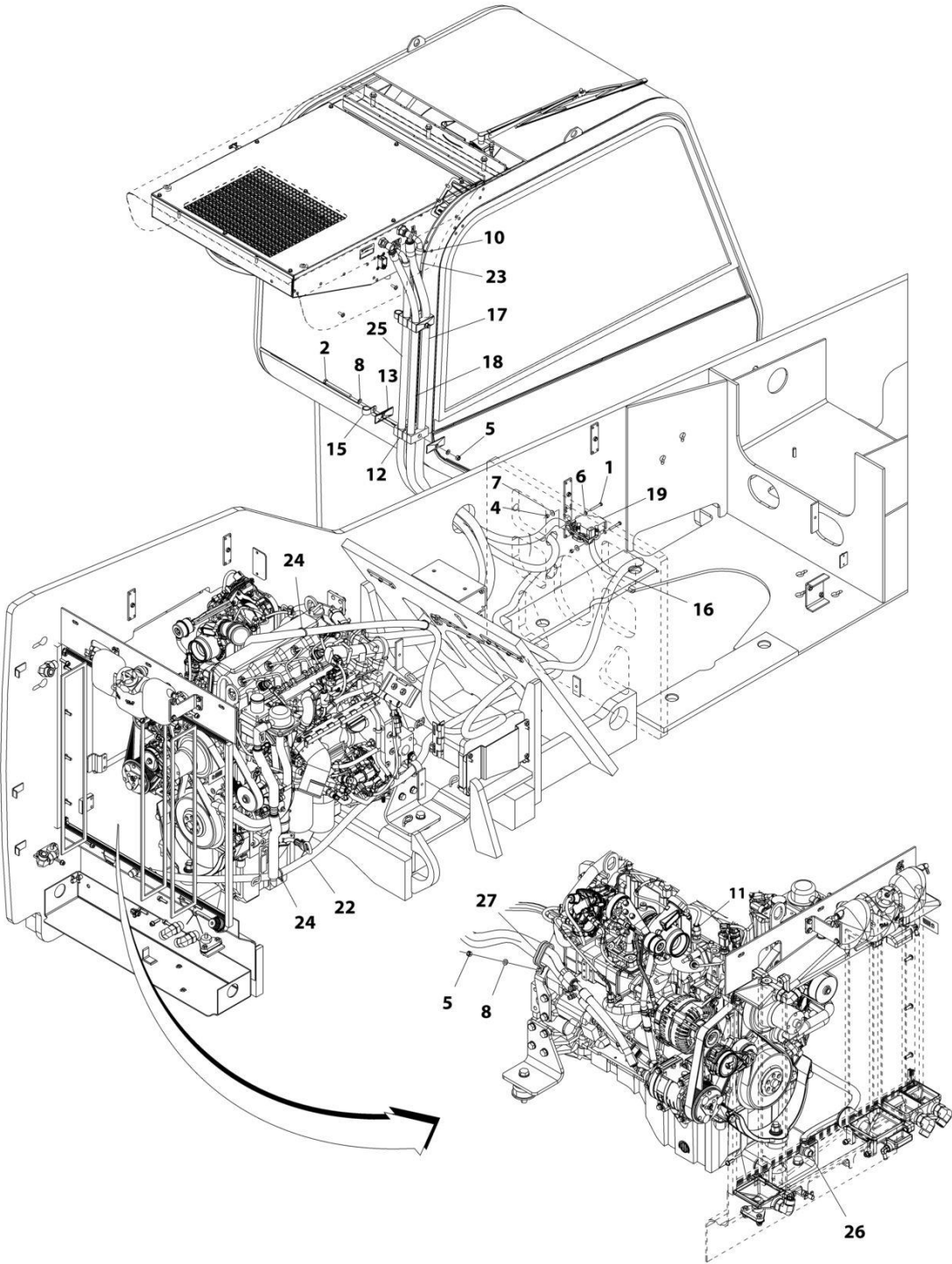
ART_1001182470

FIGURE 6-17. SKYLIGHT WIPER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001182470	Ref	SKYLIGHT WIPER ASSEMBLY	B
1	1001081310	1	Adaptor, Wet Arm	
2	8035500	1	Arm, Wiper	
3	8035499	1	Arm, Wet Kit	
4	8035498	1	Blade, Wiper	
5	70020652	1	Motor, Wiper	
6	8035493	1	Cover, Wiper	
7	70026352	1	Block, Skylight Wiper Motor	

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FIGURE 6-18. CAB HEATER/AC LINES INSTALLATION

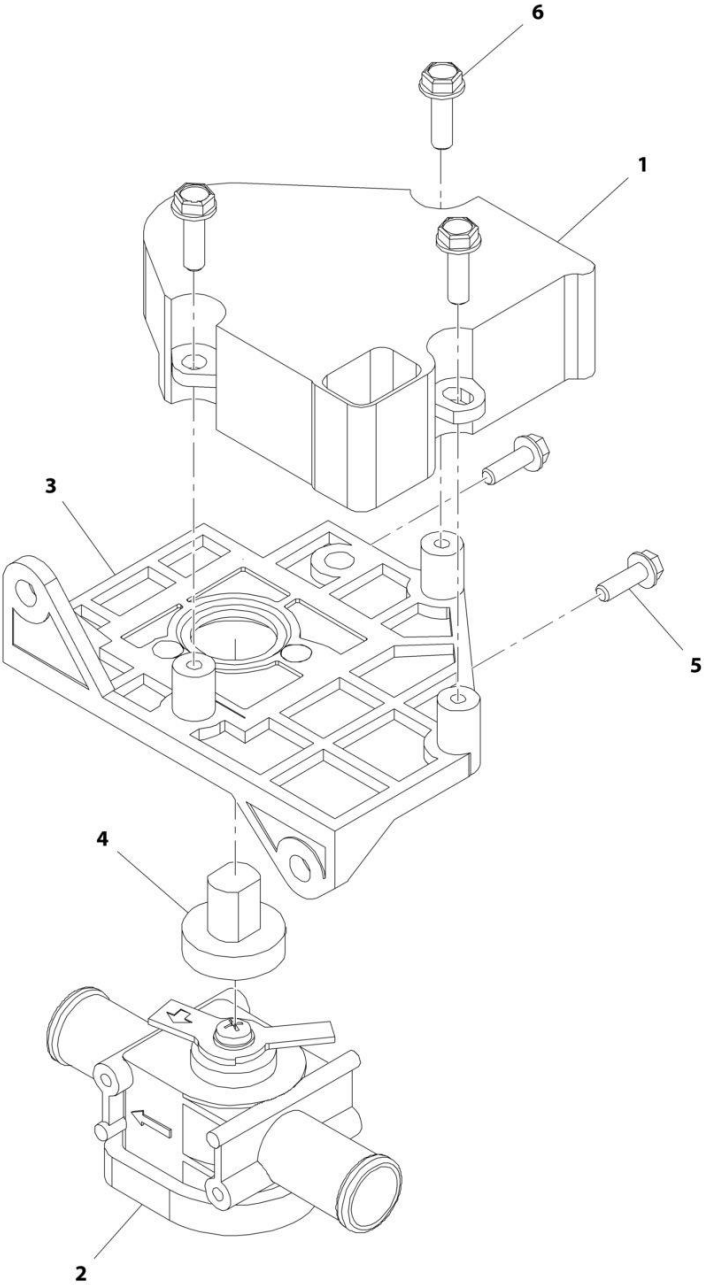


ART_1001171806-J

FIGURE 6-18. CAB HEATER/AC LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171806	Ref	Cab Heater/AC Lines Installation	J
1	0700617	2	Bolt, M6X45	
2	0700828	2	Bolt, M8X110	
4	3290605	2	Nut, Lock M6X1	
5	3290805	3	Nut, Lock M8X1-1/4	
6	4811700	2	Washer, M6	
7	4811702	2	Washer, M6	
8	4811900	5	Washer, M8	
10	8405007	8	Clamp, Gear	
11	8430048	2	Reducer, Hose Barb	
12	77133133	4	Clamp, Twin	
13	77133134	4	Clamp, Cover Plate	
15	91043147	2	Clamp, Support	
16	1001158404	1	Hose, Cab Heater	
17	1001182798	1	Hose, A/C Compressor Suction	
18	1001182723	1	Hose, A/C Compressor Discharge	
19	1001159844	1	Valve, Heater (See Separate Breakdown in this section)	
22	1001172537	1	Hose, Heater Return	
23	1001172561	1	Hose, Heater Send Valve to Roof	
24	8584001	4	Wrap, Tie	
25	1001173217	1	Hose, Heater Roof to Floor	
26	1001179229	1	Fitting, 45	
27	1001164196	1	Clamp	

FIGURE 6-19. HEATER VALVE



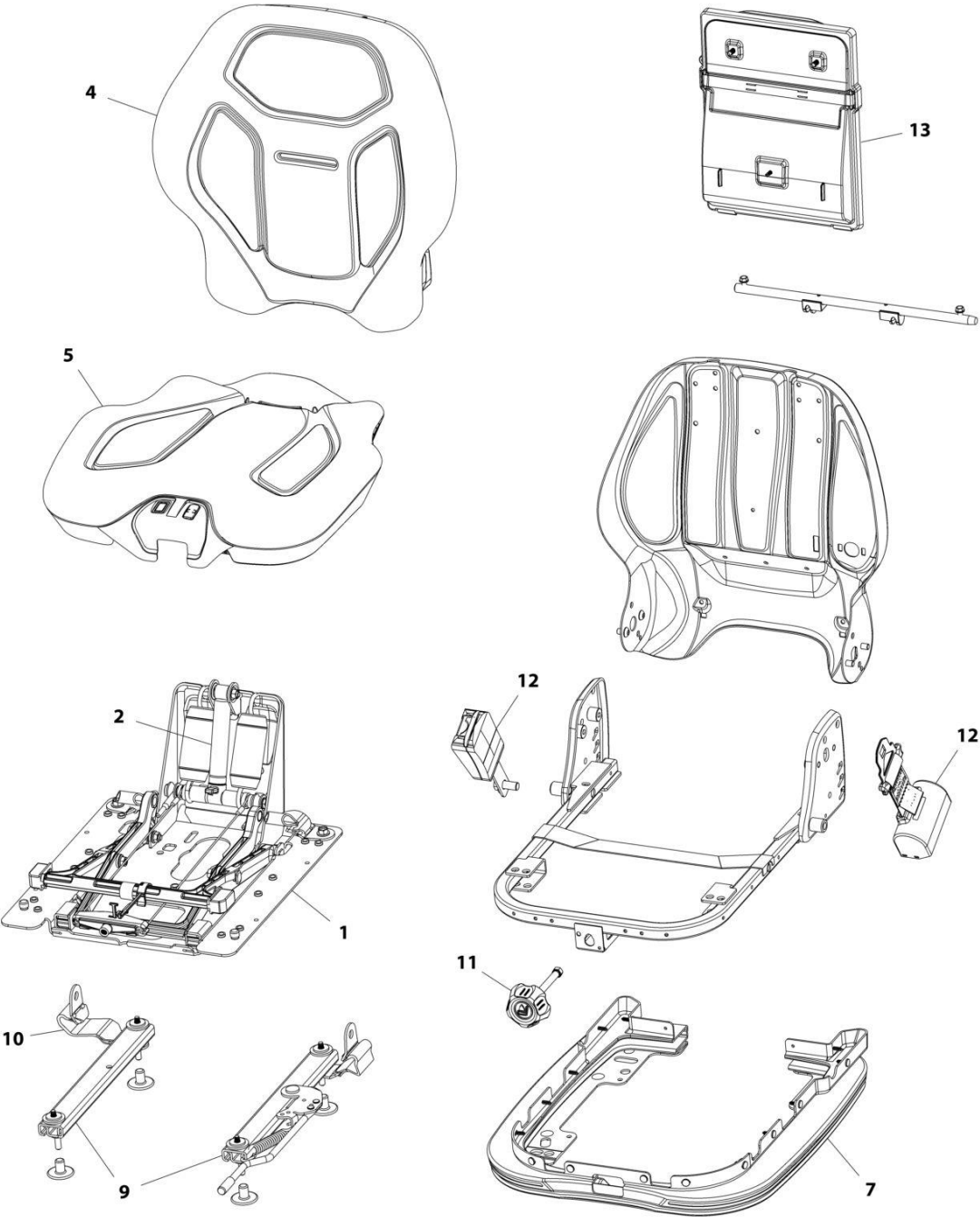
ART_1001159844-C

FIGURE 6-19. HEATER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159844	Ref	Heater Valve	C
1	70026088	1	Motor Actuator, 12V	
2	70026089	1	Assembly, Heater Valve	
3	70026090	1	Assembly, Valve Bracket	
4	70026091	1	Adapter, Shaft	
5	70026092	2	Screw, 8-18X1/2	
6	70026093	3	Screw, 10-16X5/8	

SECTION 6 - CAB

FIGURE 6-20. SEAT



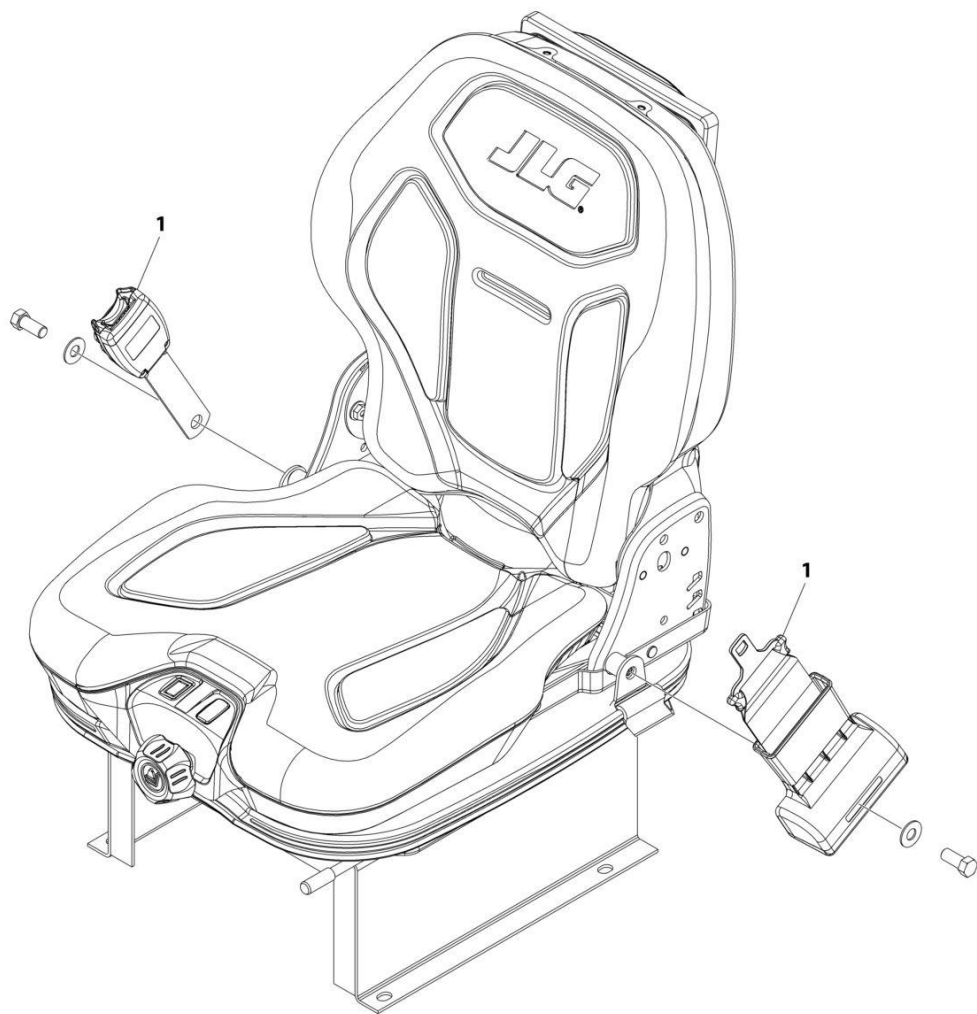
ART_1001190229-E

FIGURE 6-20. SEAT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001190229	Ref	Cab Seat	E
1	70027024	1	Suspension Assembly Kit	
2	70027025	1	Spring Saddle Assembly Kit	
4	70027026	1	Back Cushion Kit	
5	70027028	1	Seat Cushion Assembly Kit	
7	70027030	1	Boot Kit	
9	7026798	1	Adjuster Kit	
10	70027032	1	Tether strap	
11	70027033	1	Weight adjust knob kit	
12	70027034	2	Seat belt kit	
13	70027035	1	Document box kit	

SECTION 6 - CAB

FIGURE 6-21. SEAT BELT INSTALLATION (3IN)



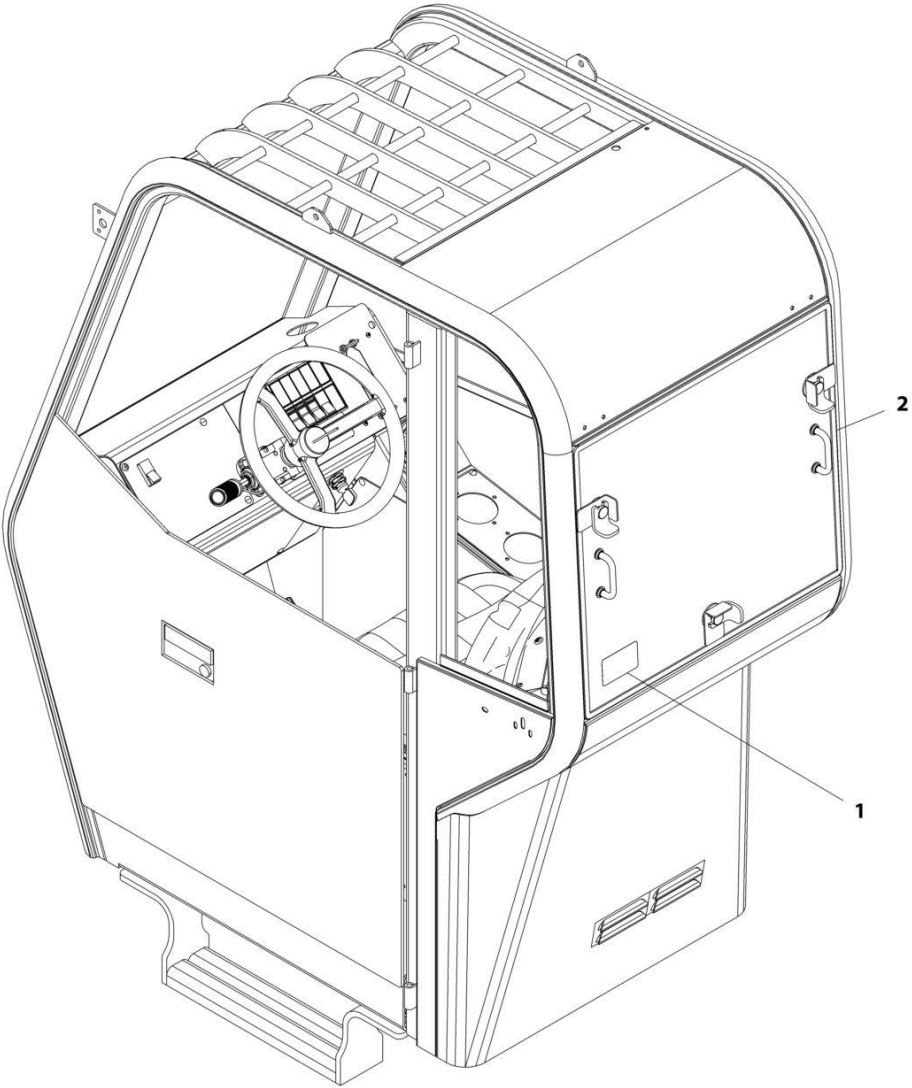
ART_1001258245

FIGURE 6-21. SEAT BELT INSTALLATION (3IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001258245	Ref	Seat Belt Installation (3in Width)	B
1	1001258244	1	Seat Belt (3in) (Black Strap)	
1	1001275933	1	Seat Belt (3in) (Orange Strap)	

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FIGURE 6-22. REAR DROPOUT WINDOW INSTALLATION (ANSI)



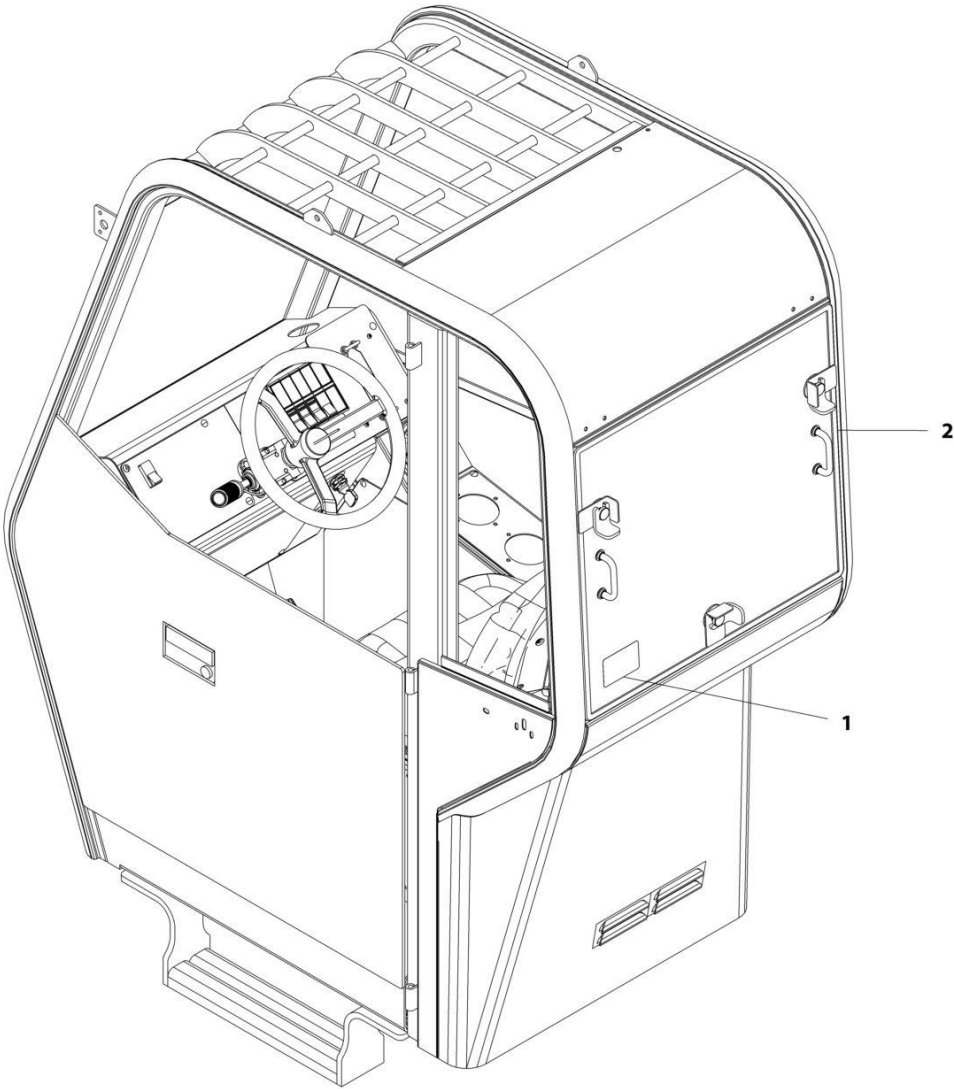
ART_1001162806-A

FIGURE 6-22. REAR DROPOUT WINDOW INSTALLATION (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162806	Ref	Rear Dropout Window Installation (ANSI)	A
1	1001160071	2	Decal, Rear Emergency Exit	
2	1001162804	1	Window, Rear Dropout	

SECTION 6 - CAB

FIGURE 6-23. REAR DROPOUT WINDOW INSTALLATION (ENGLISH/FRENCH)



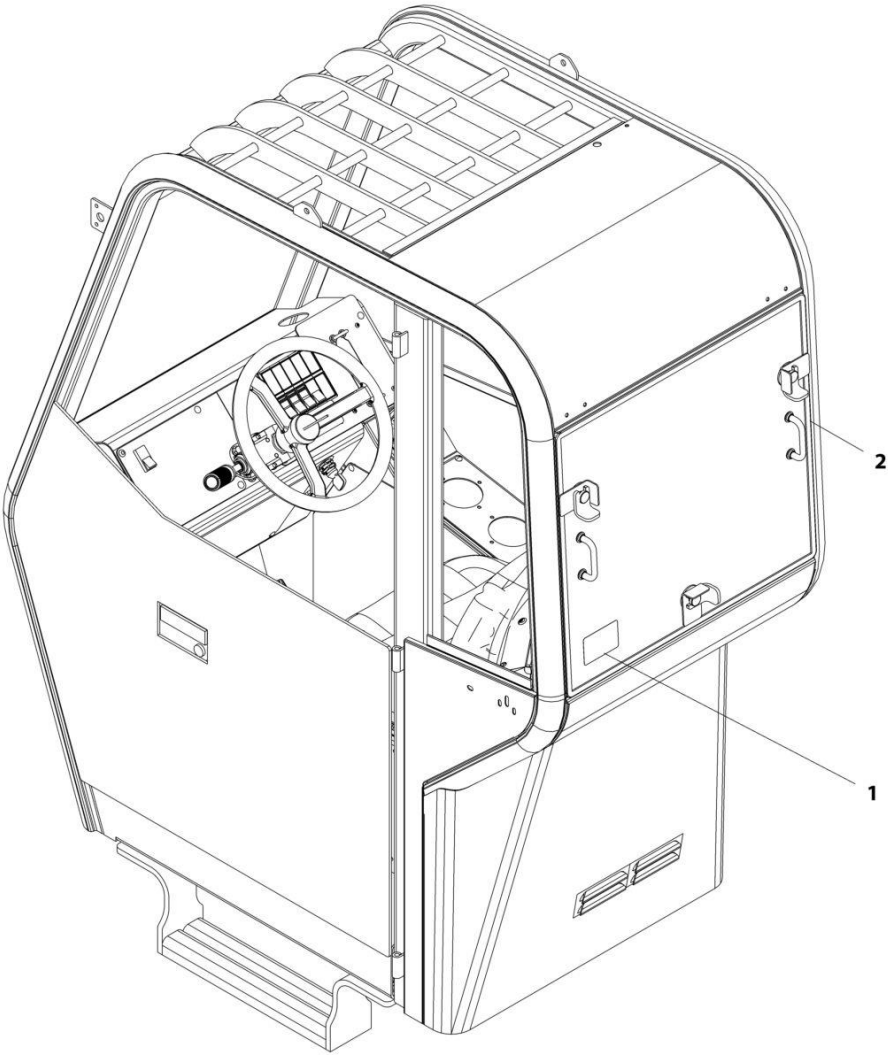
ART_1001167250-A

FIGURE 6-23. REAR DROPOUT WINDOW INSTALLATION (ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001167250	Ref	Rear Dropout Window Installation (ENGLISH/FRENCH)	A
	1001160787	2	Decal, Rear Emergency Exit	
	1001162804	1	Window, Rear Dropout	

SECTION 6 - CAB

FIGURE 6-24. REAR DROPOUT WINDOW INSTALLATION (ISO)



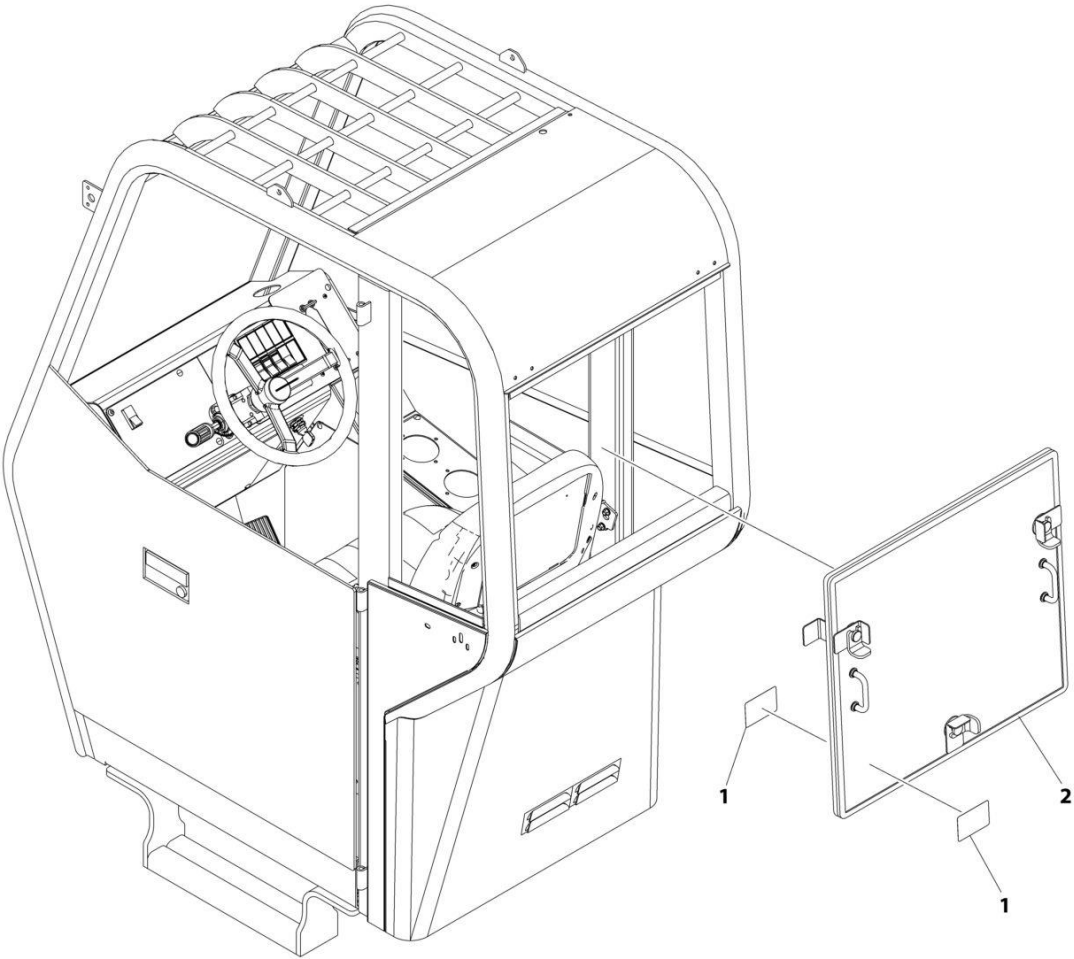
ART_1001167251-A

FIGURE 6-24. REAR DROPOUT WINDOW INSTALLATION (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001167251	Ref	Rear Dropout Window Installation (ISO)	A
	1001160912	2	Decal, Rear Emergency Exit	
	1001162804	1	Window, Rear Dropout	

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FIGURE 6-25. REAR DROPOUT WINDOW INSTALLATION (ENGLISH/SPANISH)

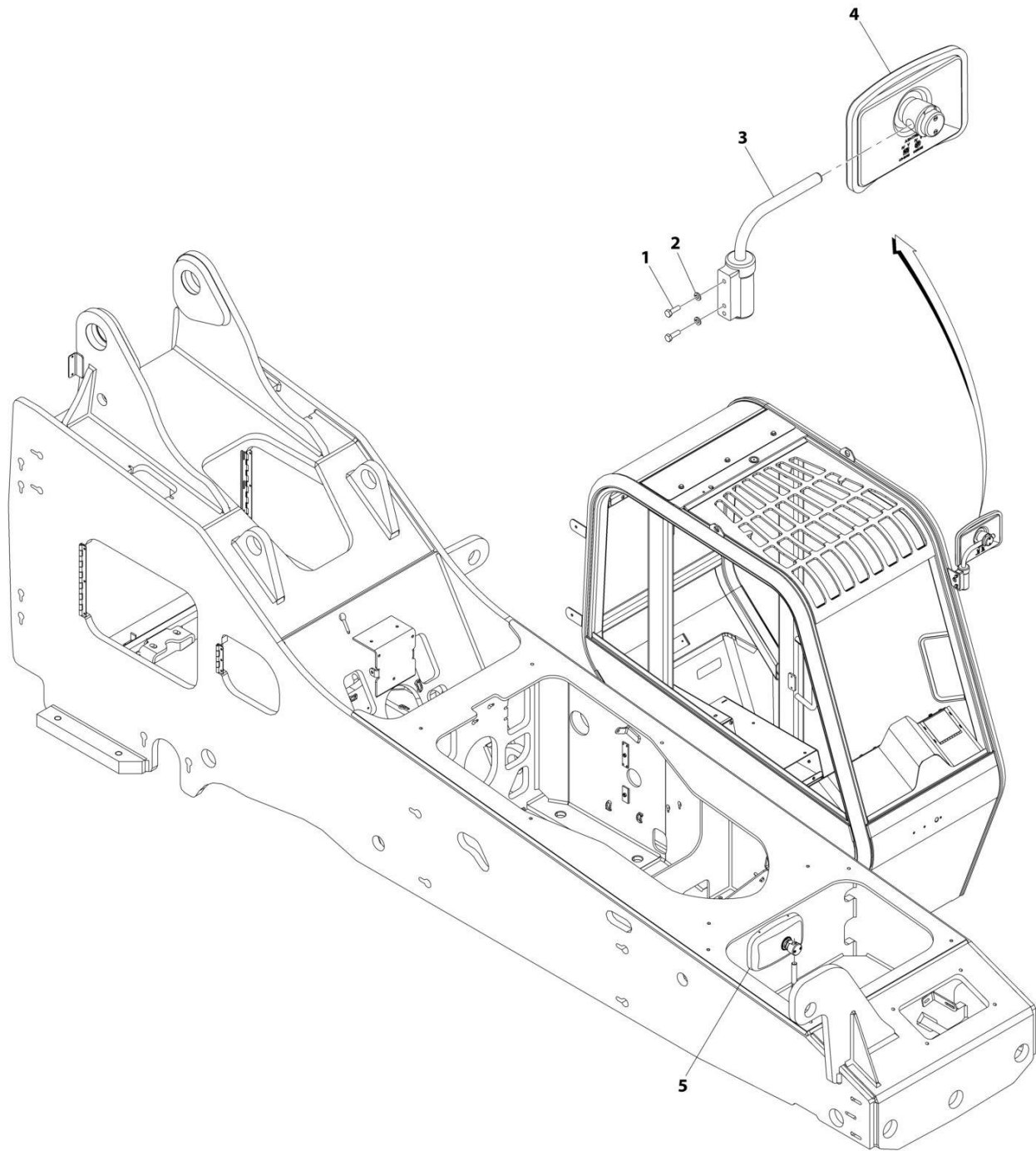


ART_1001242916

FIGURE 6-25. REAR DROPOUT WINDOW INSTALLATION (ENGLISH/SPANISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242916	Ref	REAR WINDOW EXIT INSTALLATION (ENG/SP)	B
1	1001273850	2	Decal, Rear Window Entry/Exit	
2	1001162804	1	Window	

FIGURE 6-26. MIRROR INSTALLATION



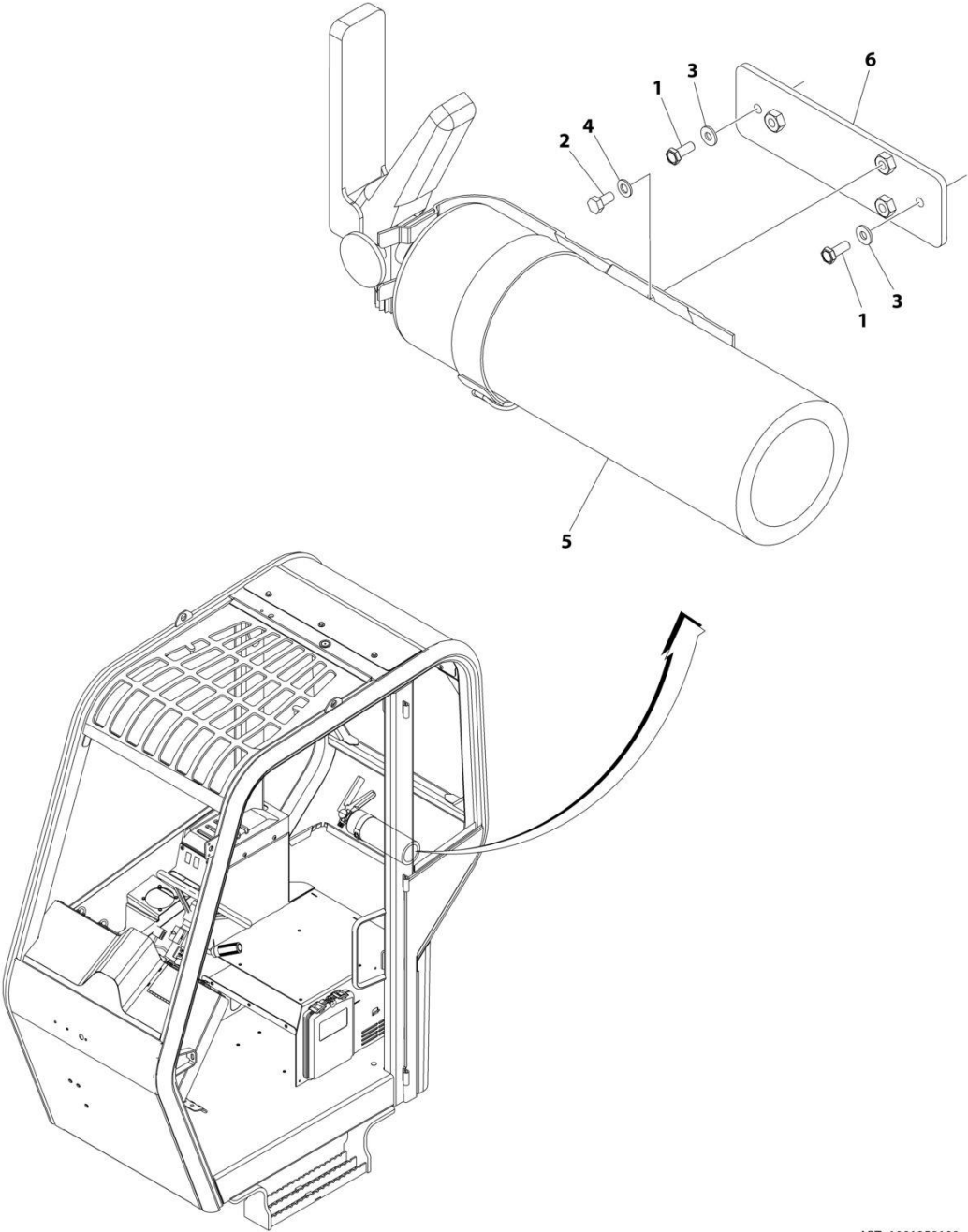
ART_1001242926-A

FIGURE 6-26. MIRROR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242926	Ref	Mirror Installation	A
1	0700610	2	Capscrew, M6 x 20	
2	8307024	2	Washer, M6	
3	1001114675	1	Arm, Mirror	
4	1001148177	1	Mirror, Rectangular	
5	1001191635	1	Mirror Assembly, RH	

SECTION 6 - CAB

FIGURE 6-27. FIRE EXTINGUISHER INSTALLATION



ART_1001258100

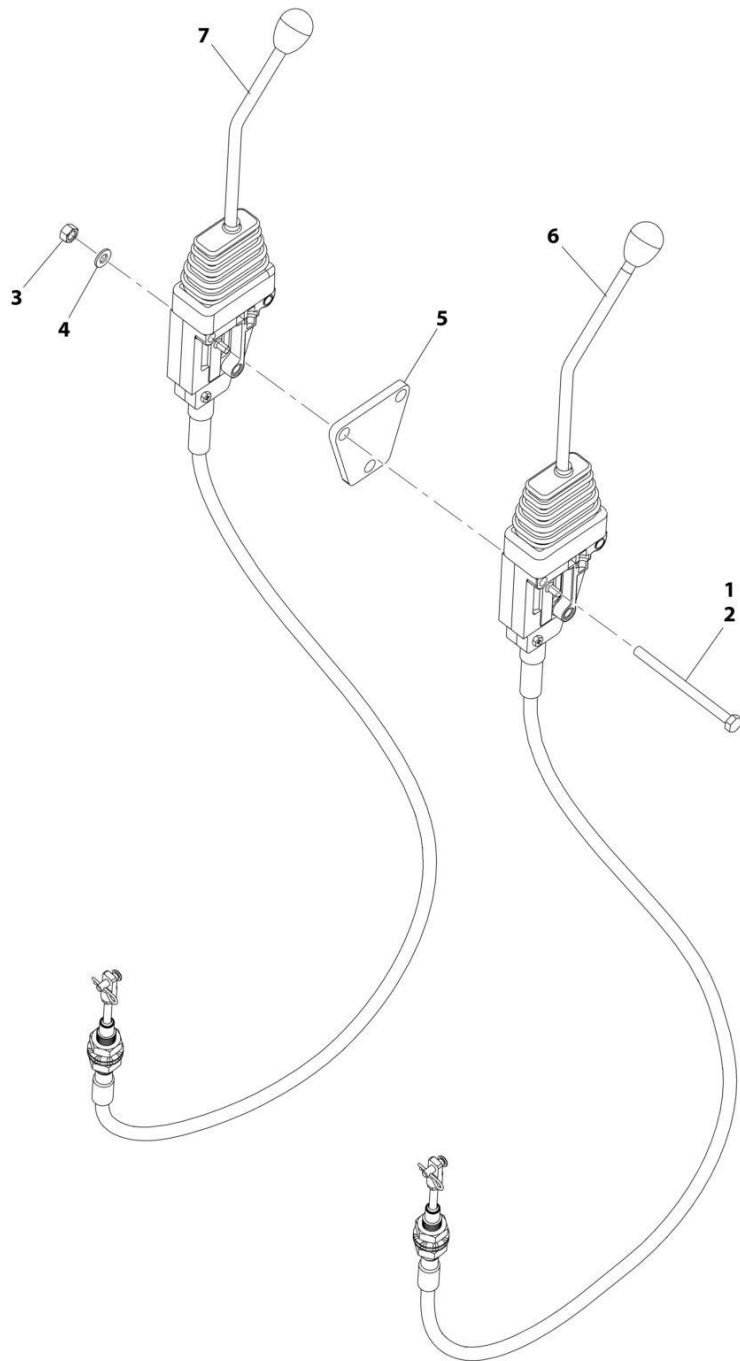
FIGURE 6-27. FIRE EXTINGUISHER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001258100	Ref	Skytrak Fire Extinguisher Installation	A
1	0721004	2	Screw M10X1/2	
2	0760505	3	Bolt M5X10	
3	4750800	2	Washer M8	
4	4811600	3	Washer M5	
5	1001099699	1	Extinguisher, Fire with Bracket	
5	1001100082	1	Bracket	
6	1001241305	1	Bracket	

SECTION 7 - CONTROLS

SECTION 7 - CONTROLS

FIGURE 7-1. SECONDARY CONTROLS INSTALLATION



ART_1001244650

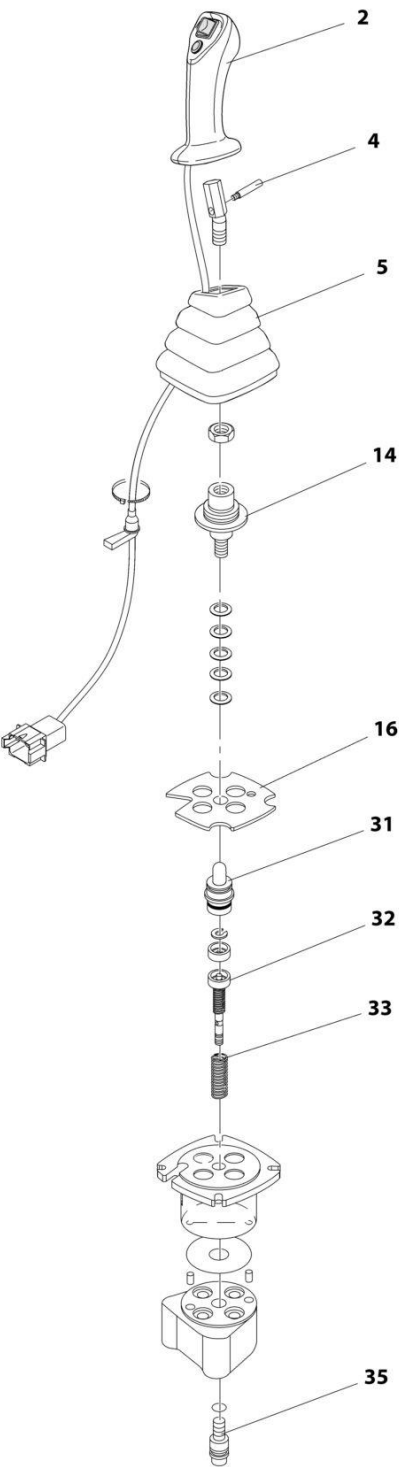
SECTION 7 - CONTROLS

FIGURE 7-1. SECONDARY CONTROLS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244650	Ref	Secondary Controls Installation	C
1	0100011	AR	Compound, Locking	
2	0700828	3	Bolt, M8X110	
3	8305043	3	Nut, M8X1-1/4	
4	8307222	3	Washer, Plain M8	
5	1001174340	1	Bracket, Control Spacer Plate	
6	1001244652	1	Auxiliary Control Assembly	
6	1001173581	1	Control, Auxiliary	
6	1001244654	1	Cable, Auxiliary Control	
7	1001244653	1	Frame Level Control Assembly	
7	1001173582	1	Control, Frame Level	
7	1001244654	1	Cable, Frame Level	

SECTION 7 - CONTROLS

FIGURE 7-2. PILOT JOYSTICK CONTROL



ART_1001158002-B

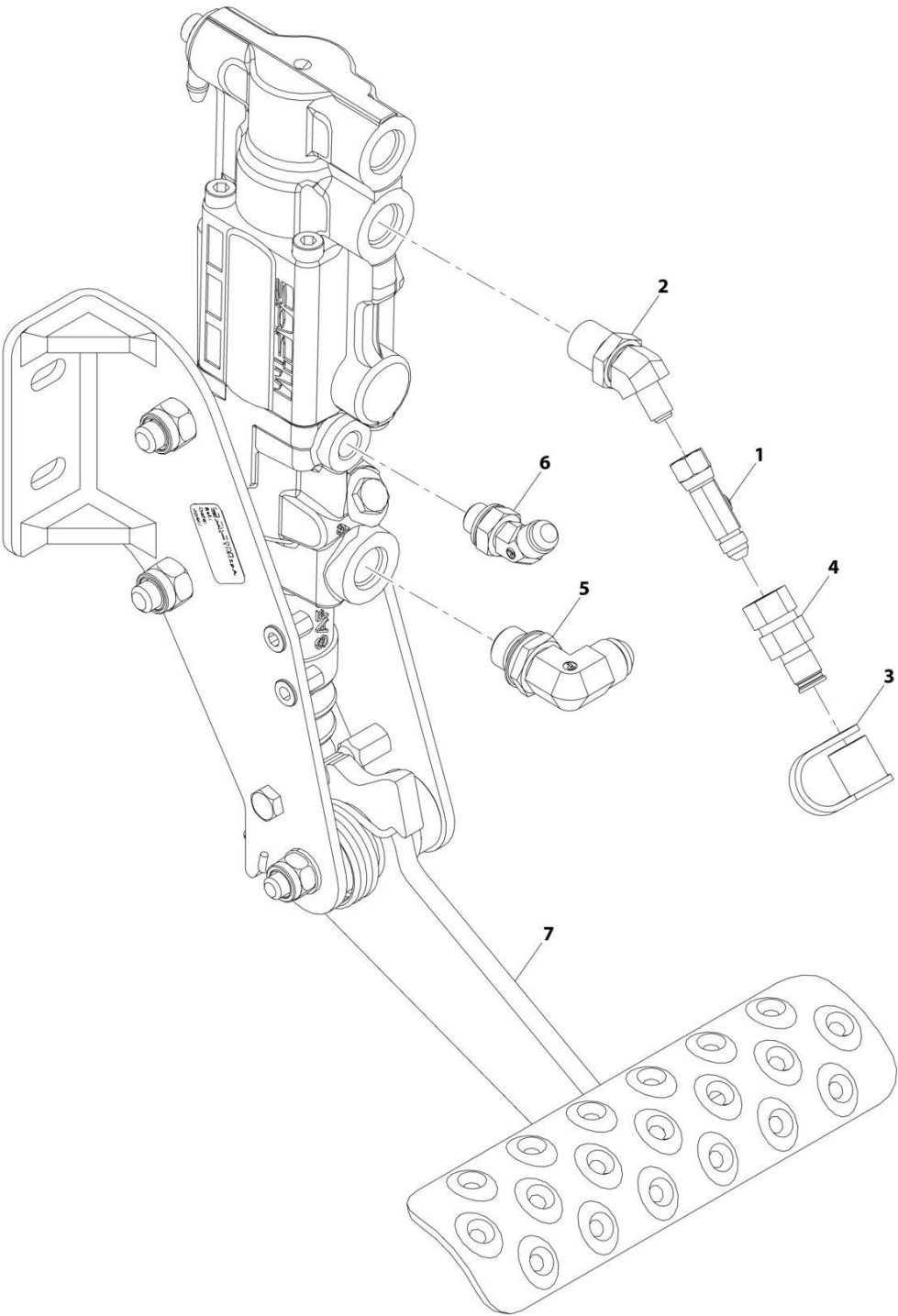
SECTION 7 - CONTROLS

FIGURE 7-2. PILOT JOYSTICK CONTROL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158002	Ref	Pilot Joystick Control	B
2	70026097	1	Handle	
4	91404011	1	Kit, Bent Lever	
5	80364095	1	Boot, Rubber	
14	80264138	1	Kit, Cardan	
16	91404013	1	Plate, Retaining	
31	91304025	2	Kit, Plunger (set of two)	
32	70026098	4	Unit, Regulating	
33	91514225	1	Spring, Return (set of four)	
35	91404326	1	Kit, Seal	

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FIGURE 7-3. BRAKE ASSEMBLY - SAFIM



ART_1001223052-A

SECTION 7 - CONTROLS

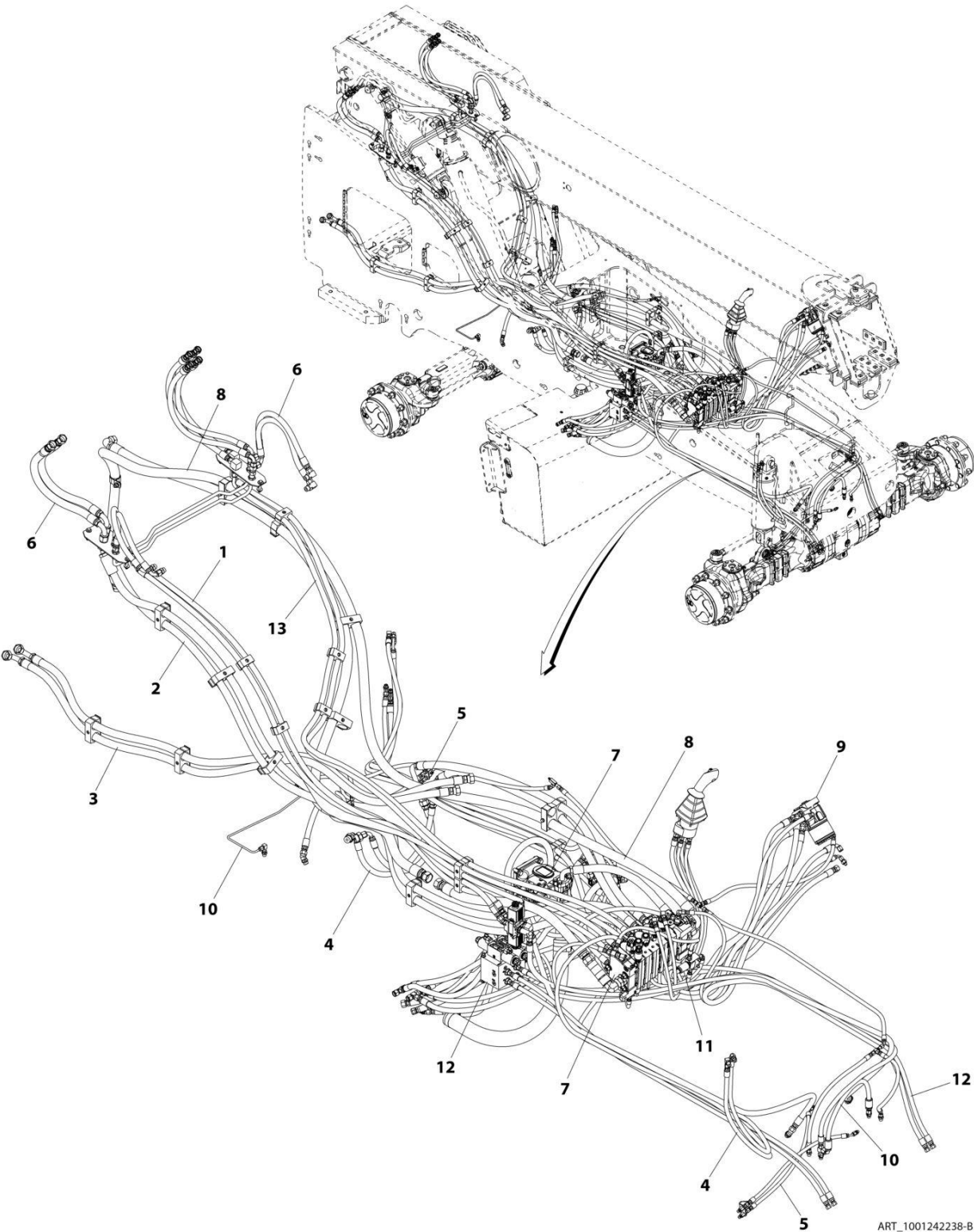
FIGURE 7-3. BRAKE ASSEMBLY - SAFIM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223052	Ref	Brake Assembly - Safim	A
1	2220605	1	Adapter	
2	2221344	1	Adapter	
3	8430032	1	Plug, Dust Cap	
4	10727374	1	Adapter	
5	91473086	1	Adapter	
6	1001183341	1	Adapter	
7	1001223050	1	Installation, Hydraulic Brake Valve (See Separate Breakdown in HYDRAULIC CIRCUITS Section)	

SECTION 8 - HYDRAULIC CIRCUITS

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. HYDRAULIC INSTALLATION



ART_1001242238-B

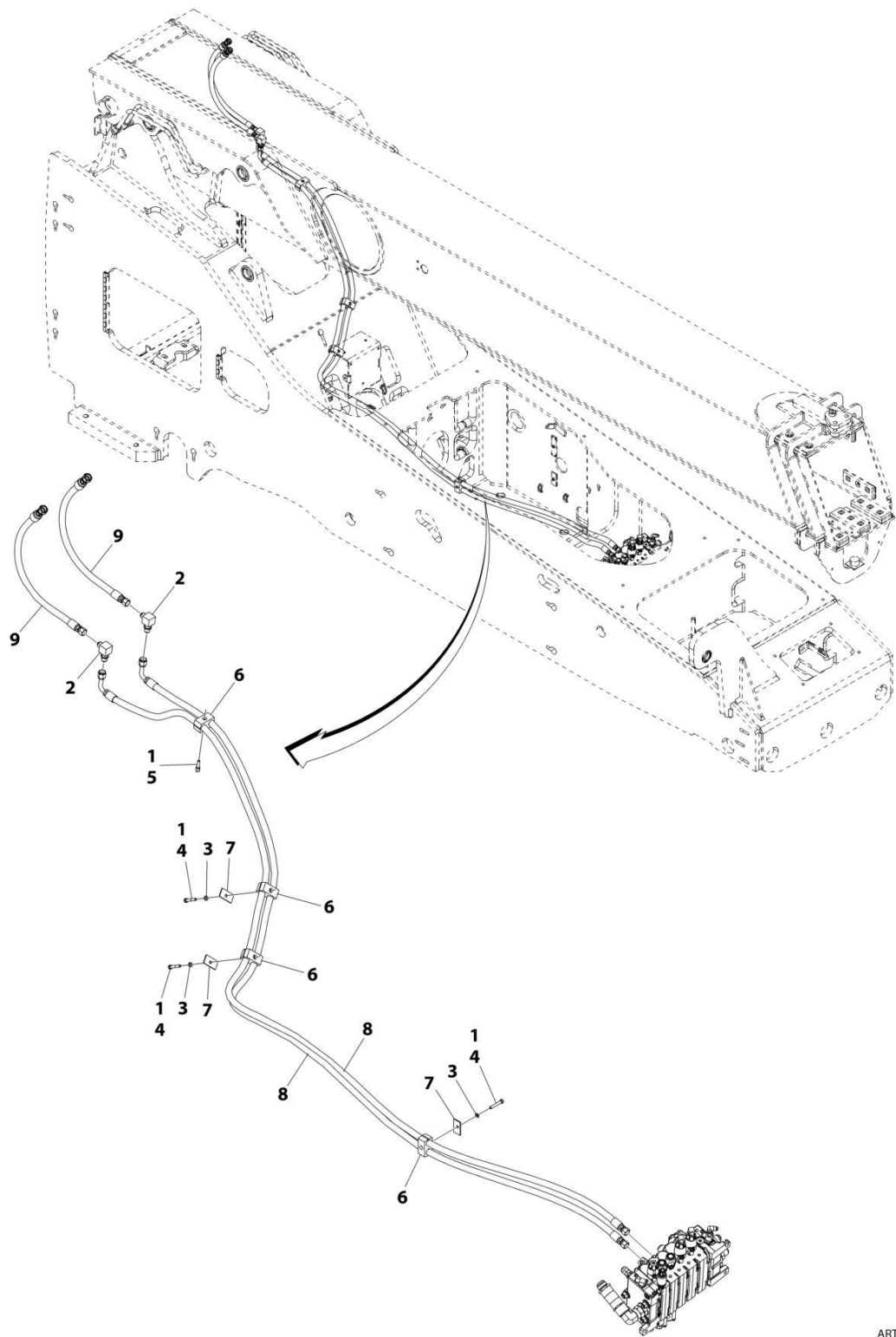
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. HYDRAULIC INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242238	Ref	Hydraulic Installation	B
1	1001158040	Ref	Fork Tilt Hydraulic Installation (See Separate Breakdown in this Section)	
2	1001158046	Ref	Extend Cylinder Installation (See Separate Breakdown in this Section)	
3	1001171873	Ref	Transmission Cooler Hydraulic Plumbing Installation (See Separate Breakdown in this Section)	
4	1001173841	Ref	Frame Cylinders Hydraulic Installation (See Separate Breakdown in this Section)	
5	1001250818	Ref	Axle Pin Lube Kit Installation (See Separate Breakdown in this Section)	
6	1001242243	Ref	Rear Bulkhead Installation (See Separate Breakdown in this Section)	
7	1001243412	Ref	Pump Hydraulic Installation (See Separate Breakdown in this Section)	
8	1001244308	Ref	Cooler Hydraulic Plumbing Installation (See Separate Breakdown in this Section)	
9	1001244357	Ref	Cab Hydraulics Installation (See Separate Breakdown in this Section)	
10	1001244530	Ref	Axle Hydraulic Installation (See Separate Breakdown in this Section)	
11	1001244610	Ref	Extend Cylinder Lockout Installation (See Separate Breakdown in this Section)	
12	1001244867	Ref	Frame Hydraulics Installation (See Separate Breakdown in this Section)	
13	1001245059	Ref	Auxiliary Hydraulics Installation (See Separate Breakdown in this Section)	

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FIGURE 8-2. AUXILIARY HYDRAULICS INSTALLATION



ART_1001245059-A

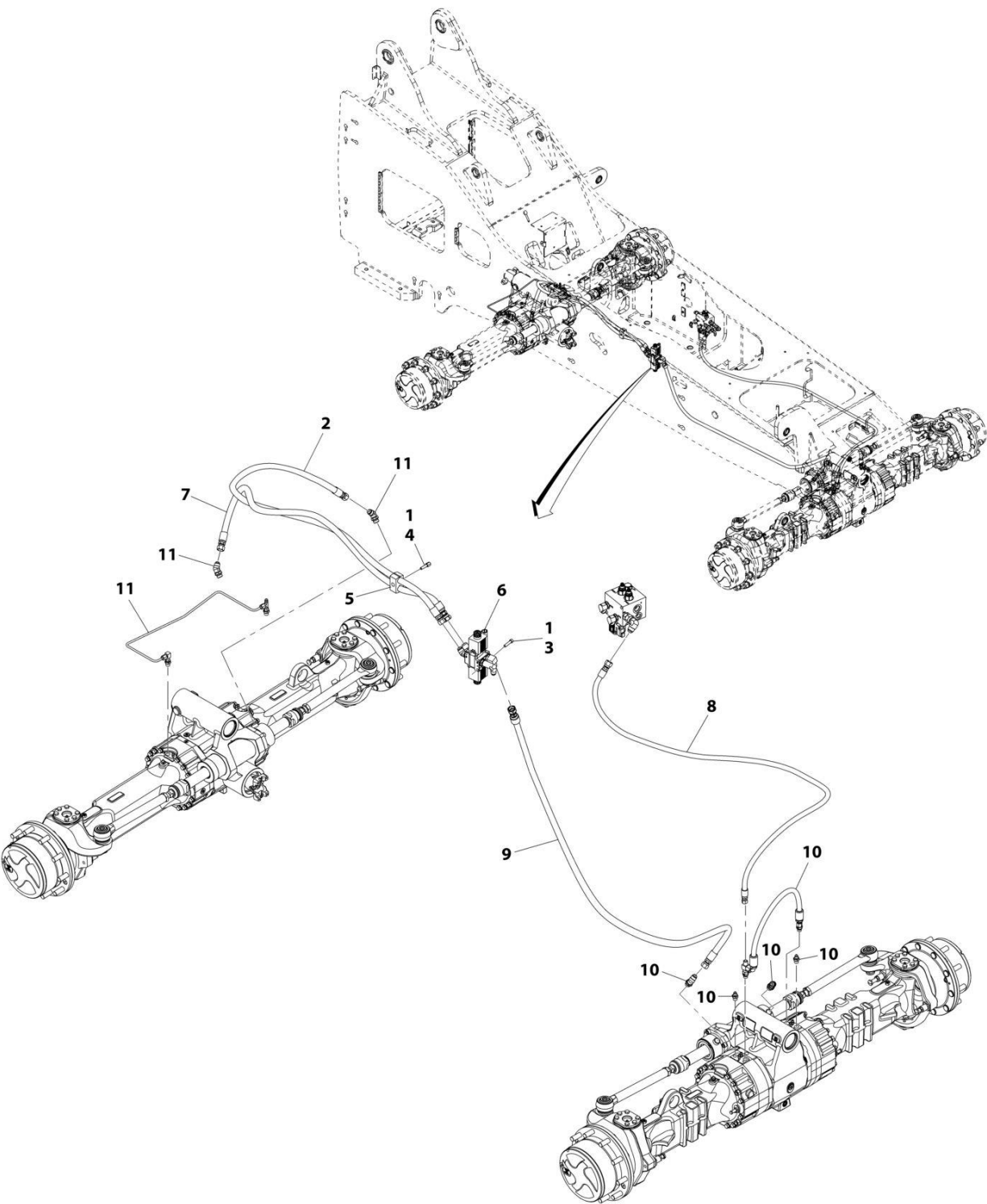
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. AUXILIARY HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001245059	Ref	Auxiliary Hydraulics Installation	A
1	0100011	AR	Compound, Locking	
2	2230044	2	Adapter, JIC	
3	8307004	3	Washer	
4	8310009	3	Bolt, 5/16-18X2	
5	8750012	1	Bolt, Stacking	
6	8750027	4	Clamp Set, Twin	
7	8769128	3	Cover Plate, Twin	
8	1001245060	2	Hose Assembly	
9	1001245061	2	Hose Assembly	

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FIGURE 8-3. AXLE HYDRAULIC INSTALLATION



ART_1001244530-A

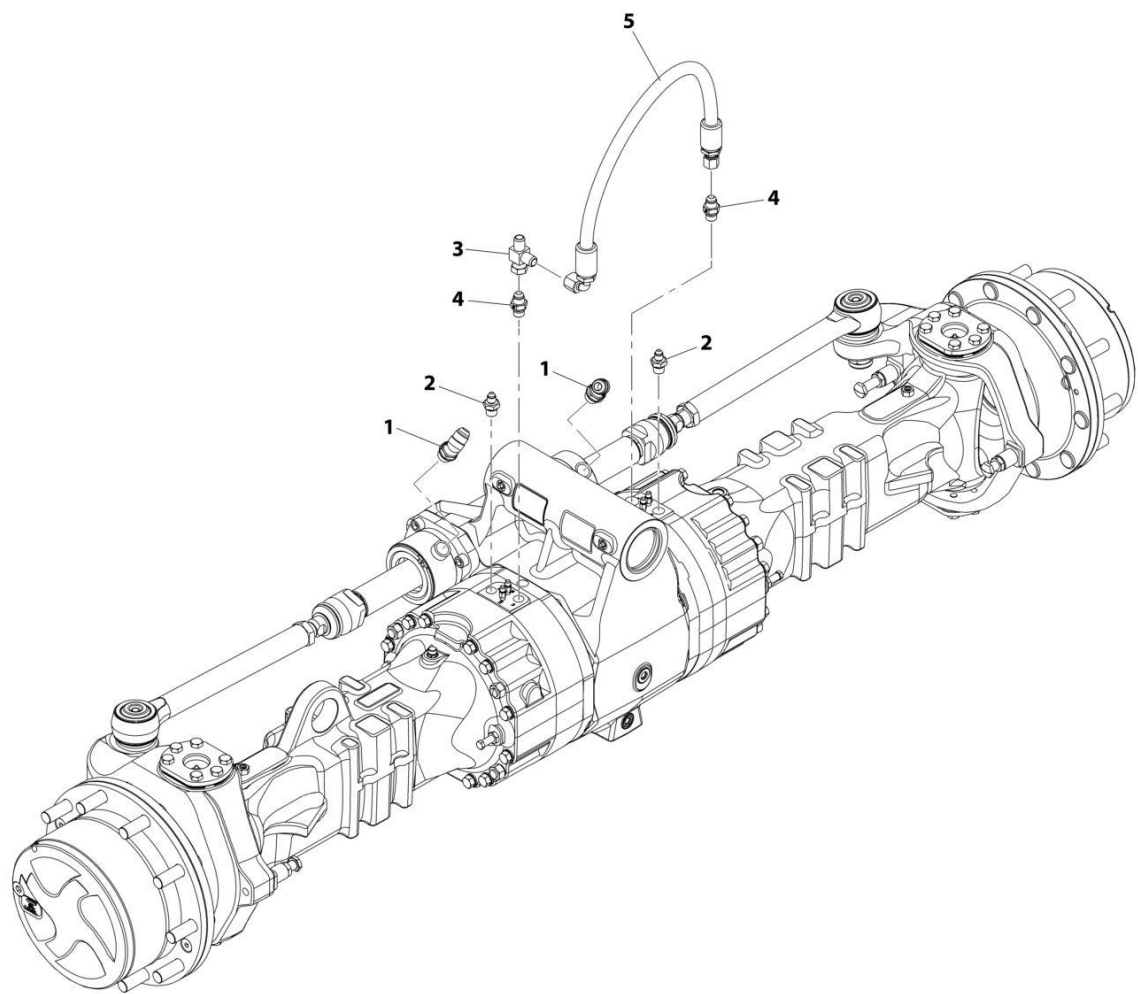
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. AXLE HYDRAULIC INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244530	Ref	Axle Hydraulic Installation	A
1	0100011	AR	Compound, Locking	
2	2716673	1	Hose	
3	8304608	2	Screw, 5/16X1-1/2	
4	8750012	1	Bolt	
5	8750027	1	Clamp Set	
6	1001172784	1	Valve Assembly	
7	1001178224	1	Hose Assembly	
8	1001194620	1	Hose Assembly	
9	1001194745	1	Hose Assembly	
10	1001224459	1	Front Hydraulic Assembly, Axle (See Separate Breakdown in this Section)	
11	1001244504	1	Rear Hydraulic Assembly, Axle (See Separate Breakdown in this Section)	

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FIGURE 8-4. AXLE HYDRAULIC ASSEMBLY (FRONT)



ART_1001224459-C

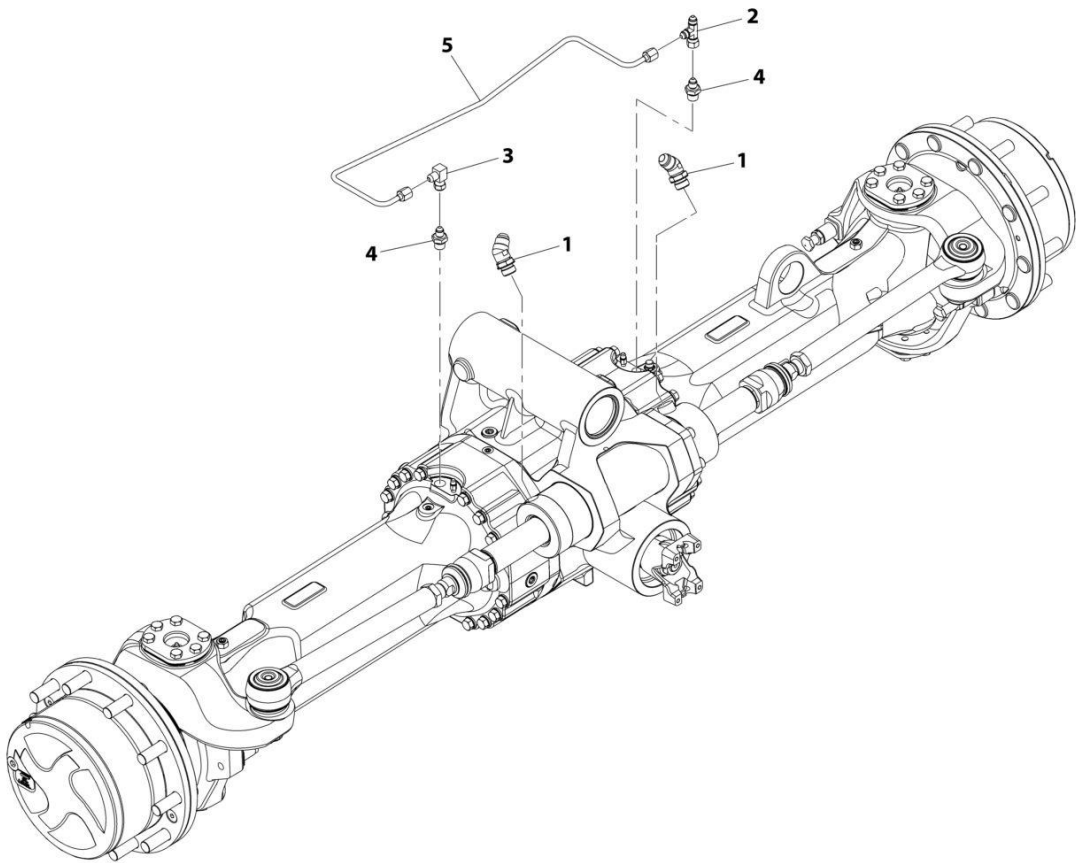
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. AXLE HYDRAULIC ASSEMBLY (FRONT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001224459	Ref	Front Axle Hydraulic Assembly	C
1	2220500	2	Adapter, Straight	
2	1001227636	2	Adapter, Straight	
3	2220635	1	Adapter, Run Tee	
4	8770064	2	Fitting	
5	1001224467	1	Hose Assembly	

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FIGURE 8-5. AXLE HYDRAULIC ASSEMBLY (REAR)



ART_1001244504-A

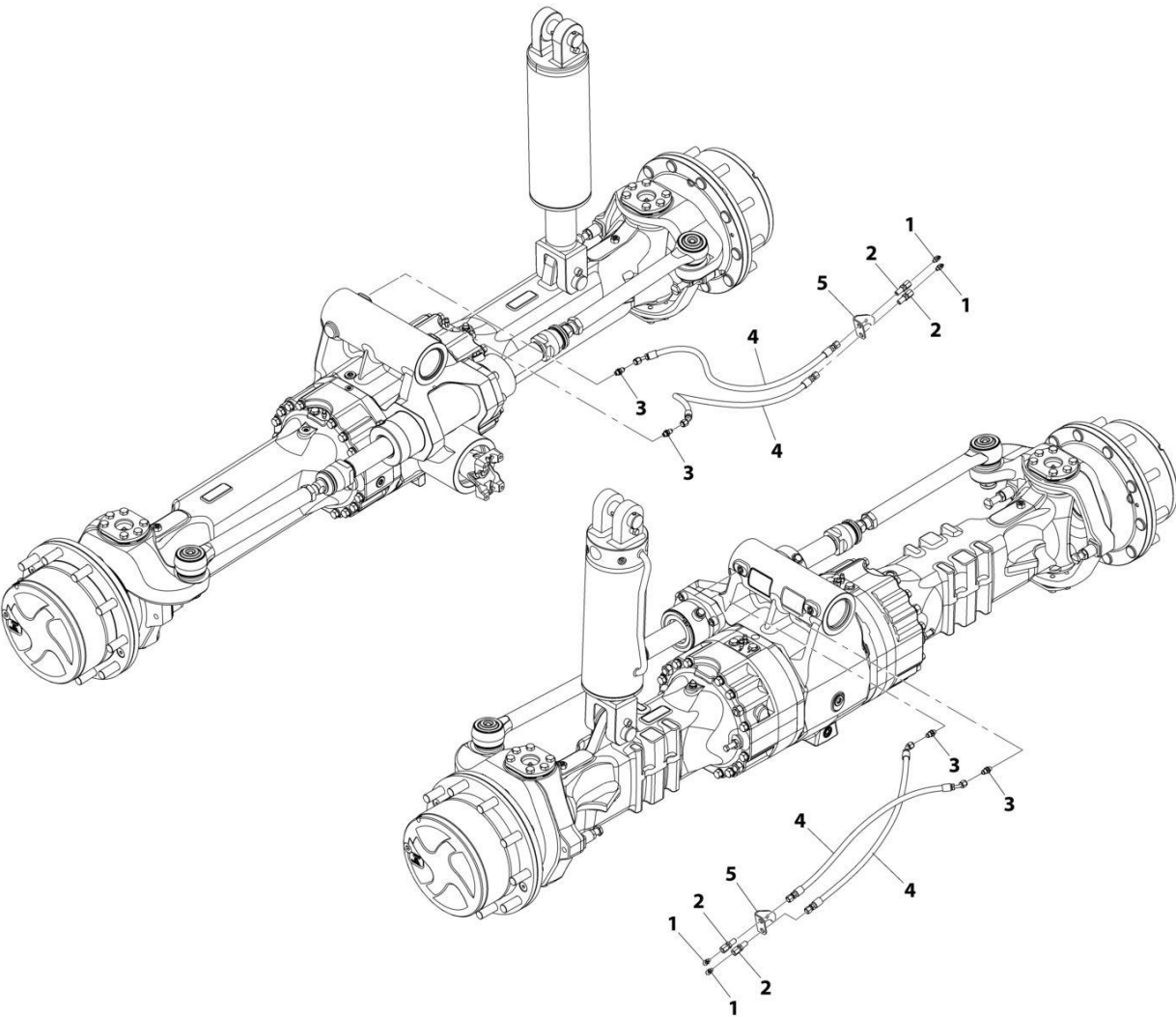
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. AXLE HYDRAULIC ASSEMBLY (REAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244504	Ref	Rear Axle Hydraulic Installation	A
1	2220500	2	Adapter, Straight	
2	2220605	1	Fitting, Tee	
3	2220654	1	Adapter, Straight	
4	1001227636	2	Adapter, Straight	
5	1001244505	1	Pipe Rear Axle Brake	

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FIGURE 8-6. AXLE PIN LUBE KIT INSTALLATION



ART_1001250818-A

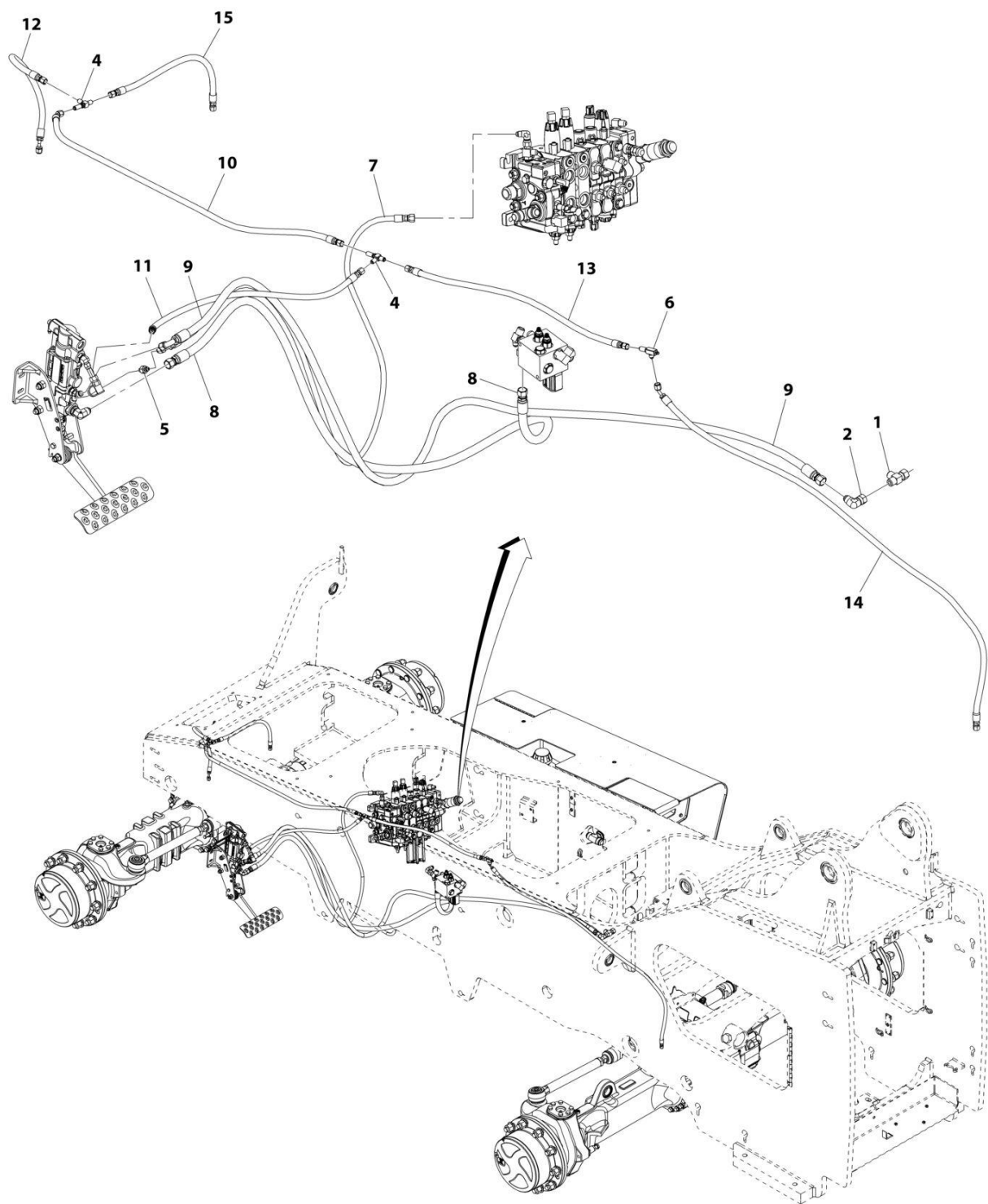
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. AXLE PIN LUBE KIT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001250818	Ref	Axle Pin Lube Kit Installation	A
1	8520003	4	Fitting Lube	
2	80623016	4	Adapter, JIC	
3	1001107589	4	Adapter, Straight JIC	
4	1001226795	4	Hose Assembly	
5	1001250506	2	Bracket, Grease	

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FIGURE 8-7. BRAKE HYDRAULICS INSTALLATION



ART_1001245054-B

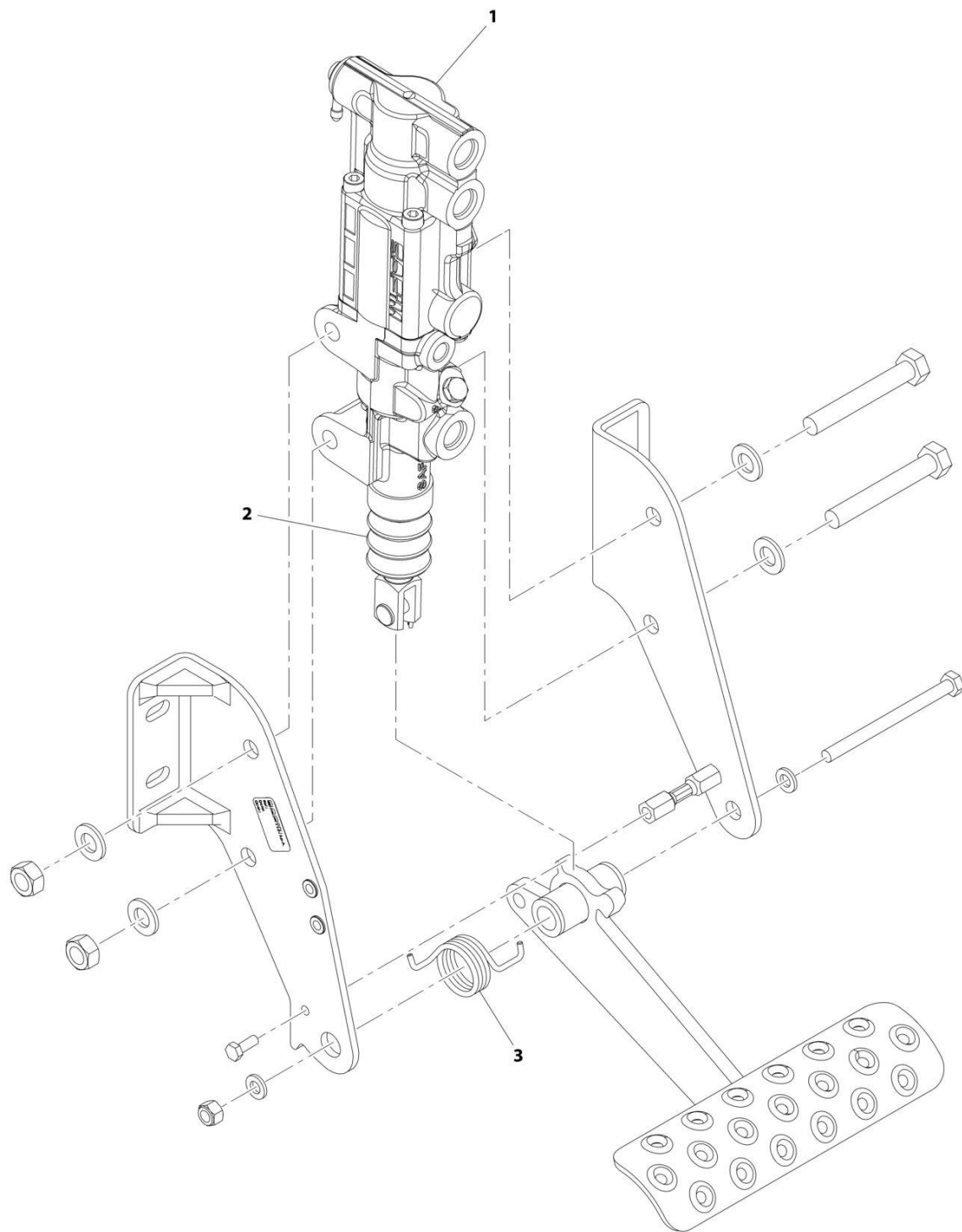
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FIGURE 8-7. BRAKE HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001245054	Ref	Hydraulic Brake Installation	C
1	2220385	1	Adapter, Run Tee	
2	8765204	1	Adapter, Straight	
4	10728823	2	Bulkhead Connector Tee	
5	1001183370	1	Check Valve	
6	1001201734	1	Brake Bleeder Tee, Manifold	
7	1001244980	1	Hose Assembly	
8	1001201737	1	Hose Assembly	
9	1001201738	1	Hose Assembly	
10	1001210093	1	Hose Assembly	
11	1001210859	1	Hose Assembly	
12	1001210860	1	Hose Assembly	
13	1001210862	1	Hose Assembly	
14	1001210863	1	Hose Assembly	
15	1001219045	1	Hose Assembly	

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FIGURE 8-8. BRAKE VALVE INSTALLATION



ART_1001223050-B

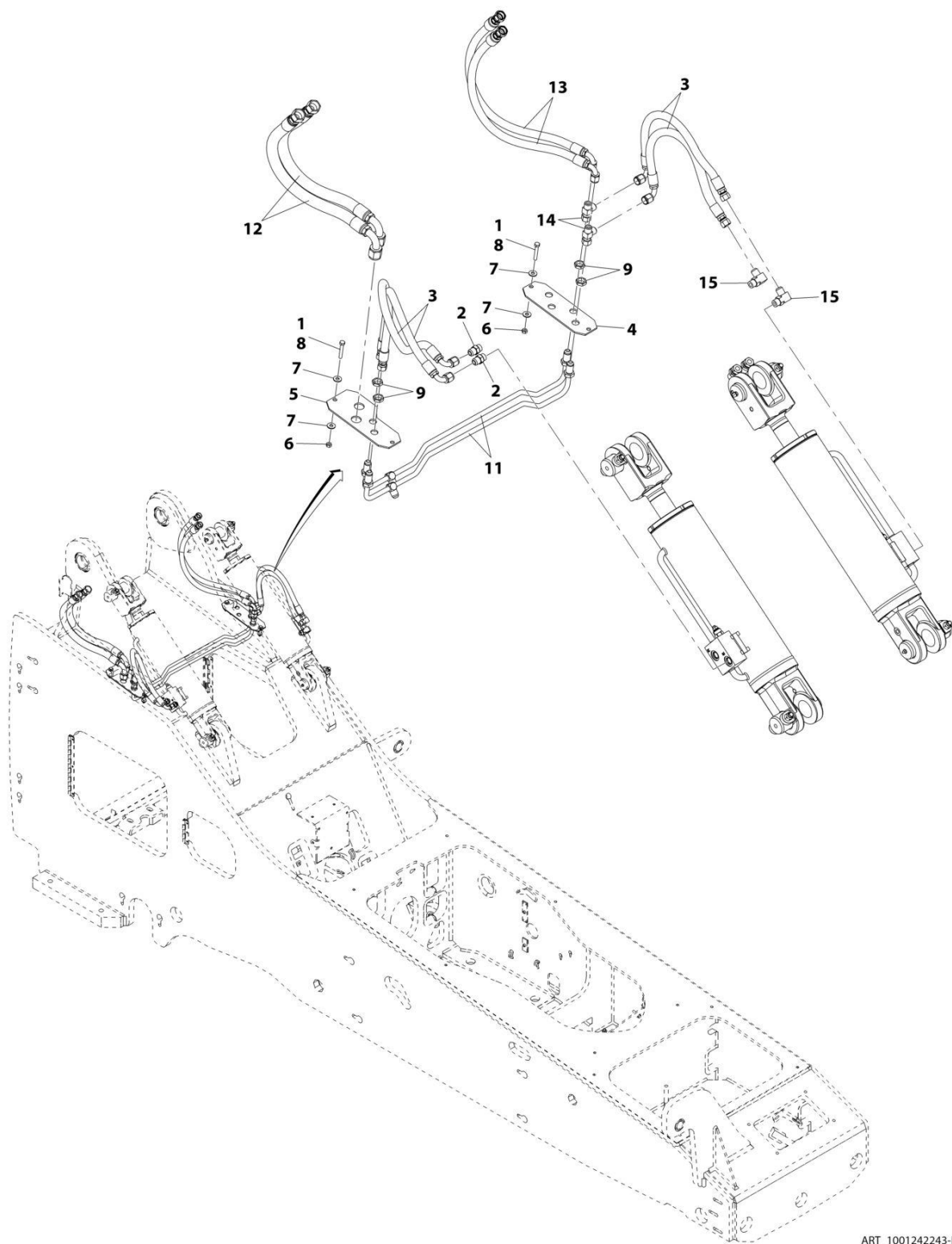
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. BRAKE VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001223050	Ref	Hydraulic Brake Valve Installation	B
	1001201721	1	Brake Valve (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
2	70025859	1	Dust Cover	
3	70028547	1	Spring, Return	

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FIGURE 8-9. BULKHEAD INSTALLATION (REAR)



ART_1001242243-B

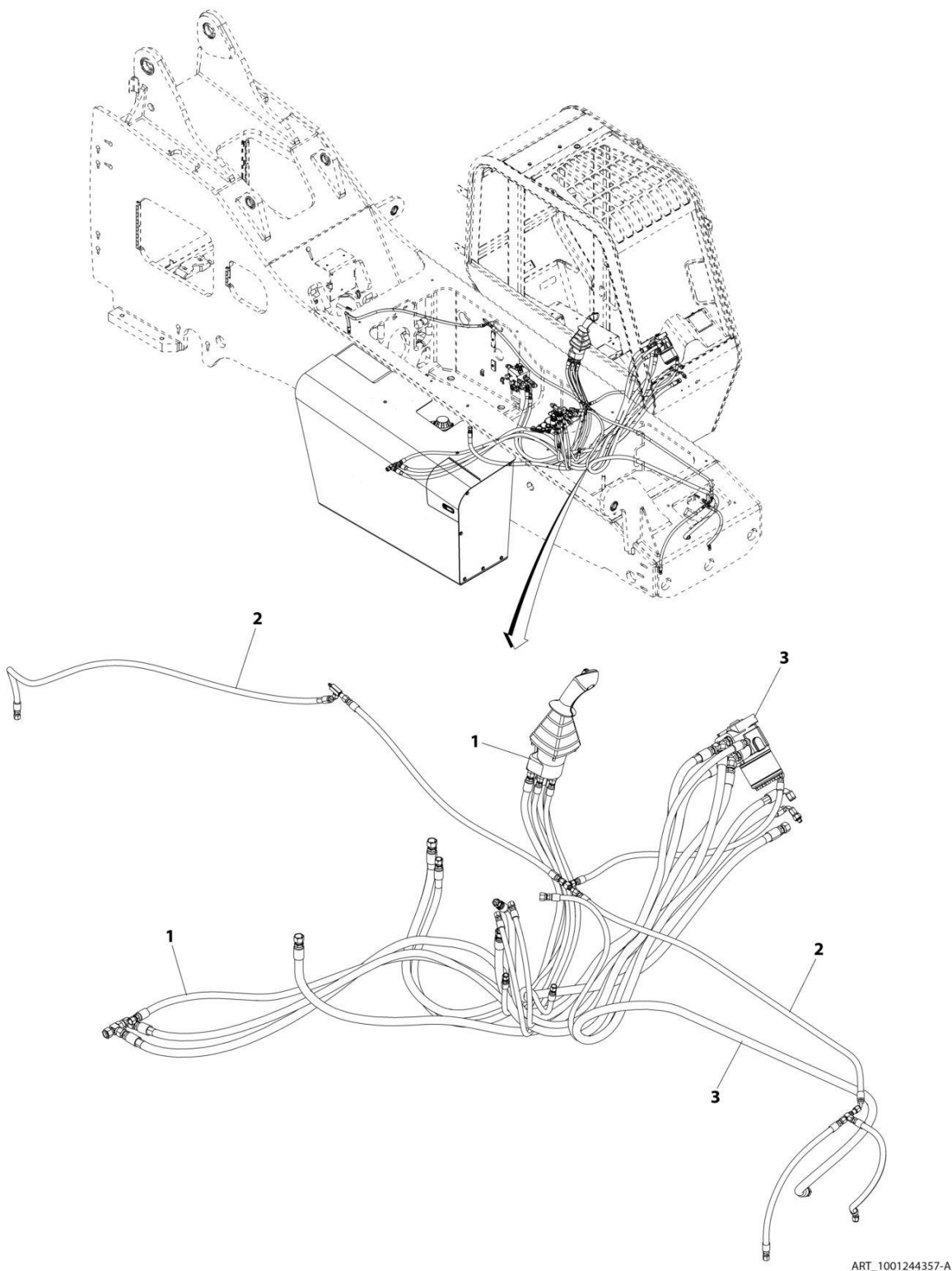
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FIGURE 8-9. BULKHEAD INSTALLATION (REAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242243	Ref	Rear Bulkhead Installation	B
1	0100011	AR	Compound, Locking	
2	2220373	2	Adapter, Straight JIC	
3	2716715	4	Hose	
4	7139504	1	Sheet, Bulkhead	
5	7139505	1	Sheet, Bulkhead	
6	8305006	4	Nut 5/16	
7	8307203	8	Washer	
8	8310009	4	Bolt, 5/16x2	
9	8760463	4	Adapter, Bulkhead Nut	
11	1001246550	2	Manifold, Comp Cylinder Cross Cover	
12	1001245067	2	Hose Assembly	
13	1001245068	2	Hose Assembly	
14	2220385	2	Adapter, Run Tee	
15	2220596	2	Adapter, Straight JIC	

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FIGURE 8-10. CAB HYDRAULICS INSTALLATION



ART_1001244357-A

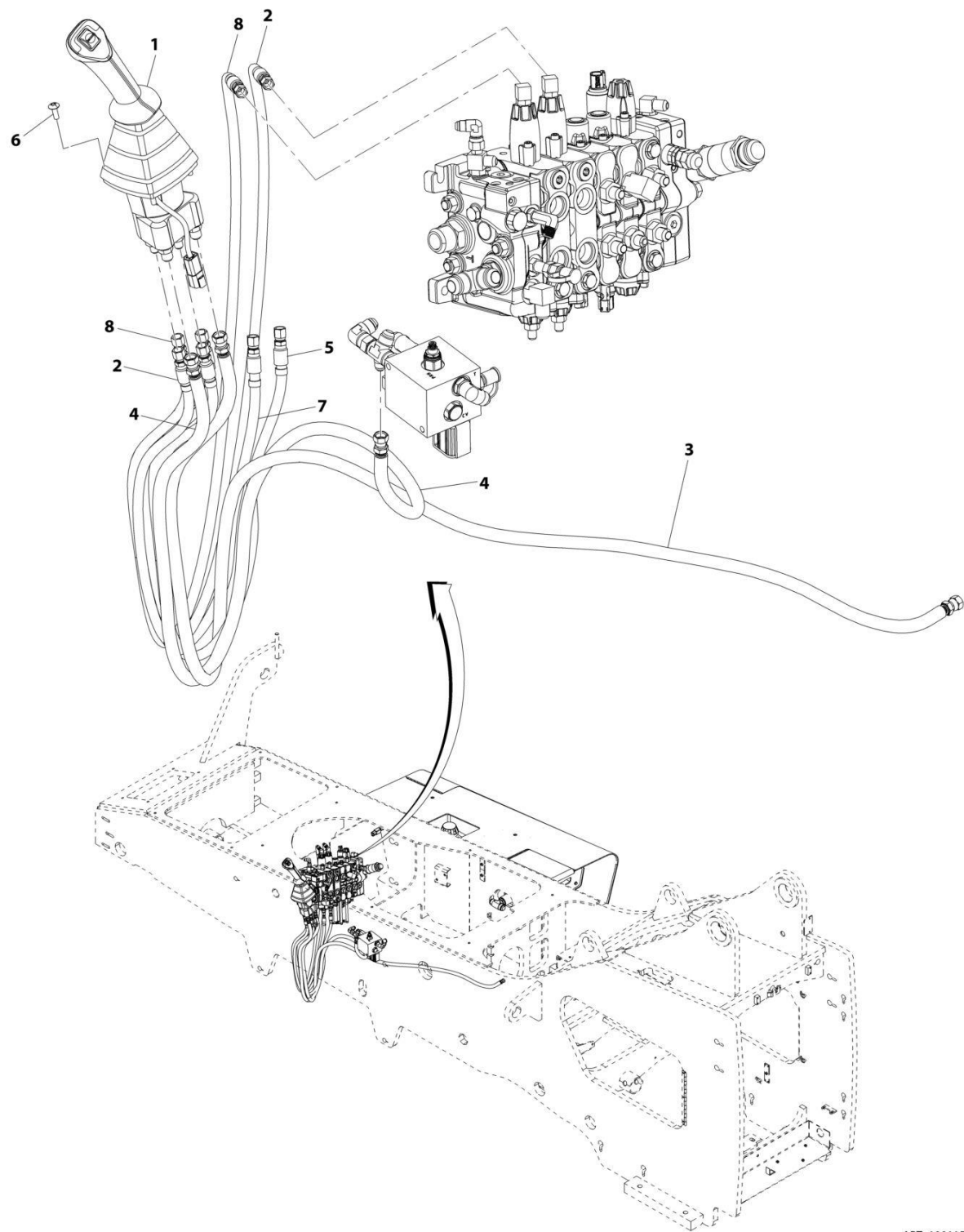
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FIGURE 8-10. CAB HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001244357	Ref	Cab Hydraulics Installation	A
	1001158786	Ref	Pilot Controls Installation (See Separate Breakdown in this Section)	
2	1001245054	Ref	Brake Hydraulic Installation (See Separate Breakdown in this Section)	
3	1001245057	Ref	Steering Hydraulic Installation (See Separate Breakdown in this Section)	

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FIGURE 8-11. CAB PILOT CONTROLS INSTALLATION



ART_1001158786-G

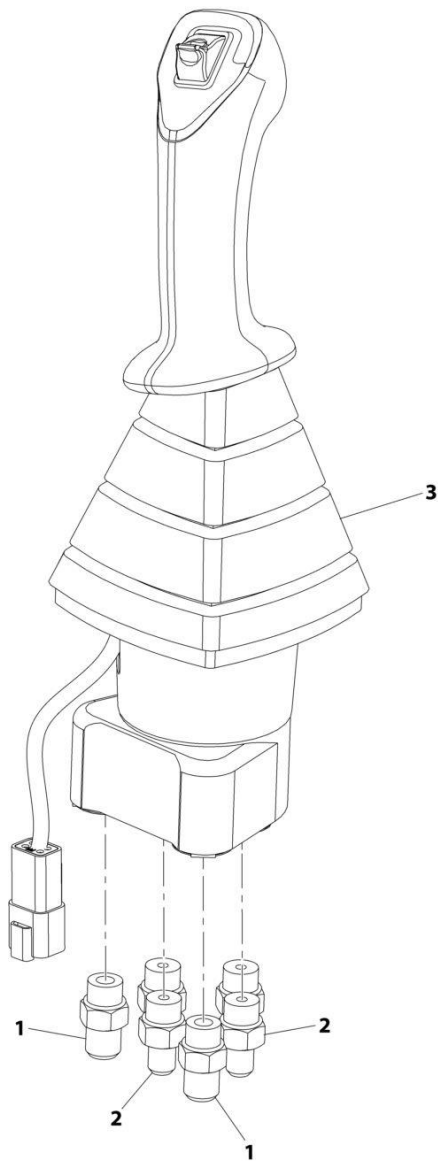
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FIGURE 8-11. CAB PILOT CONTROLS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158786	Ref	Pilot Controls Installation	G
1	1001158004	1	Assembly, Pilot Joystick (See Separate Breakdown in this Section)	
2	1001252971	1	Hose	
3	1001254099	1	Hose	
4	1001158398	1	Hose	
5	1001252970	1	Hose	
6	8303034	4	Screw, 1/4-20X3/4	
7	1001252968	1	Hose	
8	1001252969	1	Hose	

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FIGURE 8-12. CAB PILOT JOYSTICK CONTROL ASSEMBLY



ART_1001158004-B

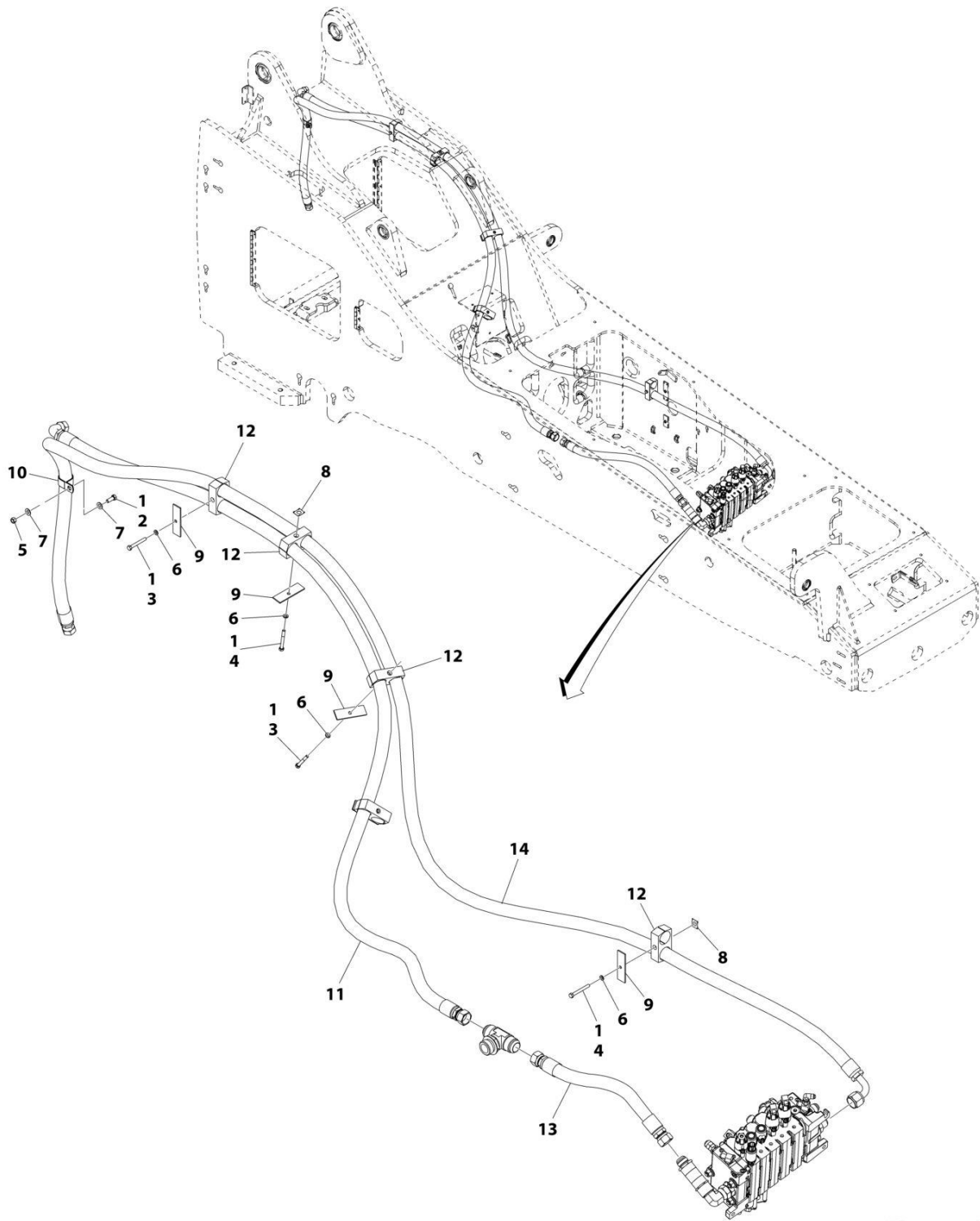
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FIGURE 8-12. CAB PILOT JOYSTICK CONTROL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158004	Ref	Pilot Joystick & Fitting Assembly	B
1	2220371	2	Adapter, Straight JIC	
2	2220582	4	Adapter, Straight JIC	
3	1001158002	1	Control & Fittings Assembly - Pilot Joystick (See Separate Breakdown in CONTROLS Section)	

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FIGURE 8-13. COOLER HYDRAULIC PLUMBING INSTALLATION



ART_1001244308-B

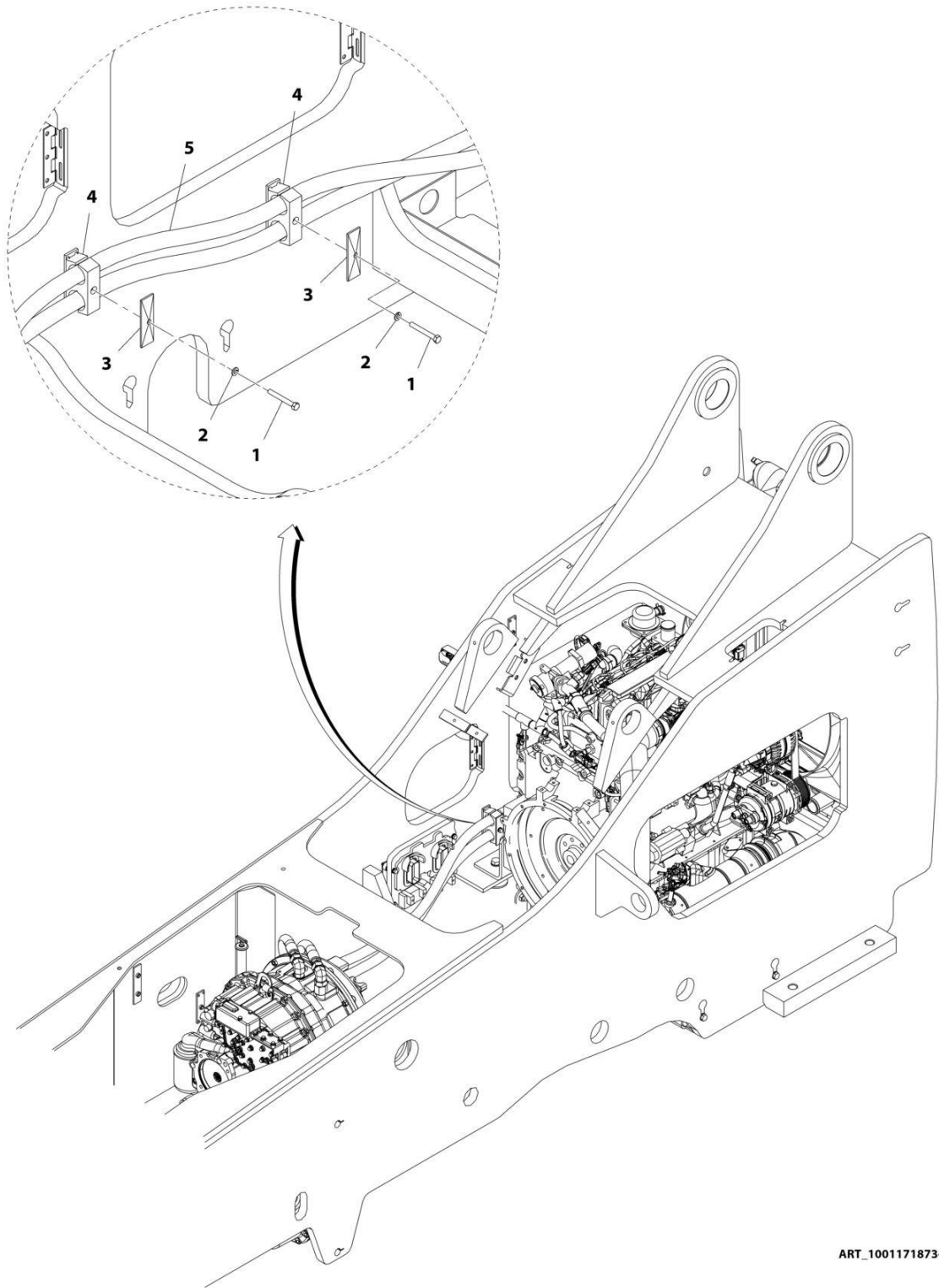
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FIGURE 8-13. COOLER HYDRAULIC PLUMBING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244308	Ref	Hydraulic Cooler Plumbing Installation	B
1	0100011	AR	Compound, Locking	
2	8303620	1	Bolt, 3/8X1	
3	8303757	3	Bolt, 5/16X2-1/2	
4	8303766	2	Bolt, 5/16X2-3/4	
5	8305008	1	Nut, 3/8	
6	8307004	5	Washer	
7	8307110	2	Washer	
8	8750017	2	Locking Plate	
9	8750025	5	Cover Plate, Twin	
10	85841150	1	Clamp, Support	
11	1001177753	1	Hose Assembly	
12	1001196109	5	Clamp, Twin Hose	
13	1001244306	1	Hose	
14	1001244307	1	Hose	

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FIGURE 8-14. COOLER HYDRAULICS PLUMBING INSTALLATION - TRANSMISSION



ART_1001171873-C

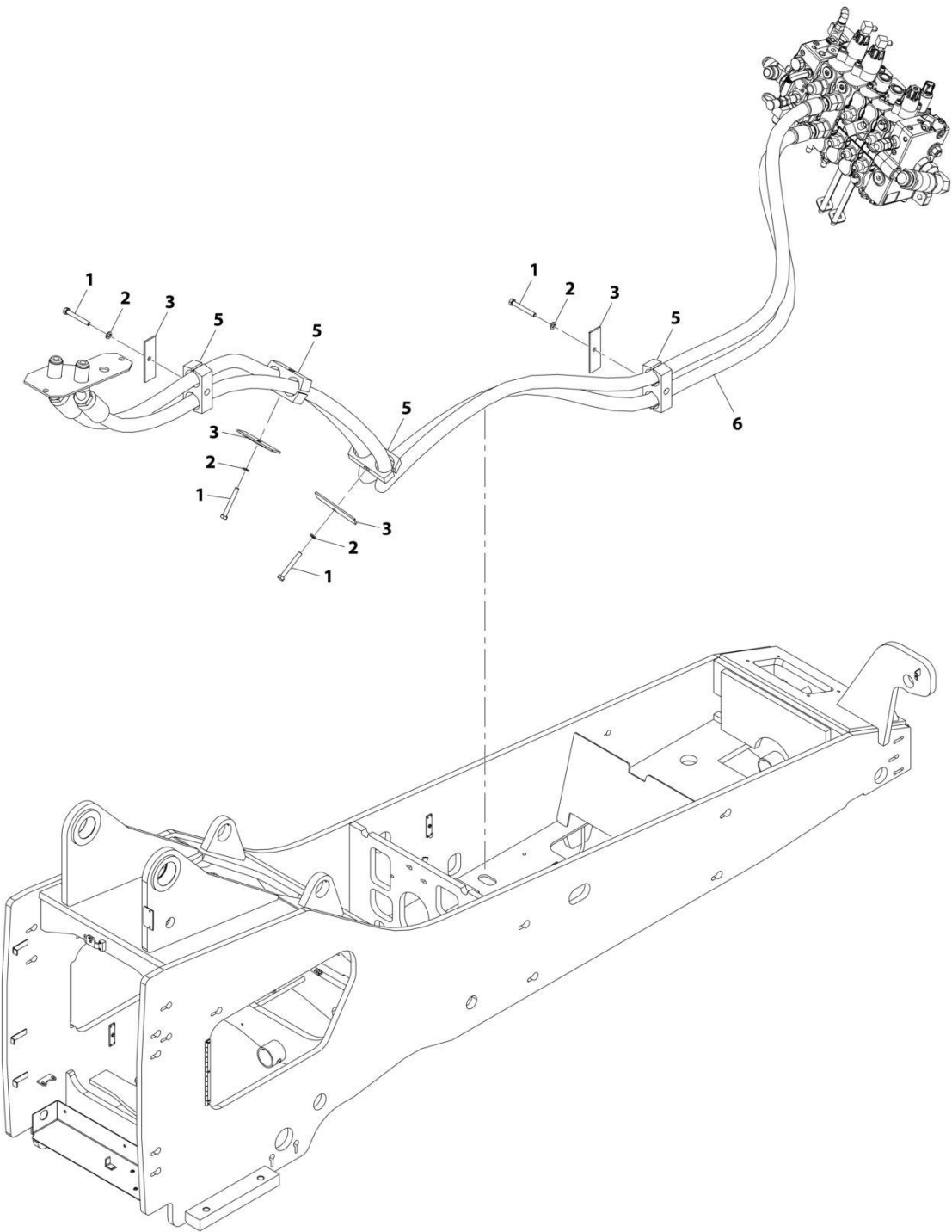
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FIGURE 8-14. COOLER HYDRAULICS PLUMBING INSTALLATION - TRANSMISSION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171873	Ref	Hydraulic Transmission Cooler Plumbing Installation	C
1	8303757	2	Bolt, 5/16X2-1/2	
2	8307004	2	Washer, Lock 5/16	
3	8750025	2	Cover Plate, Twin	
4	8750040	2	Clamp Set, Twin	
5	1001171986	2	Hose	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-15. CYLINDER INSTALLATION - EXTEND



ART_1001158046-E

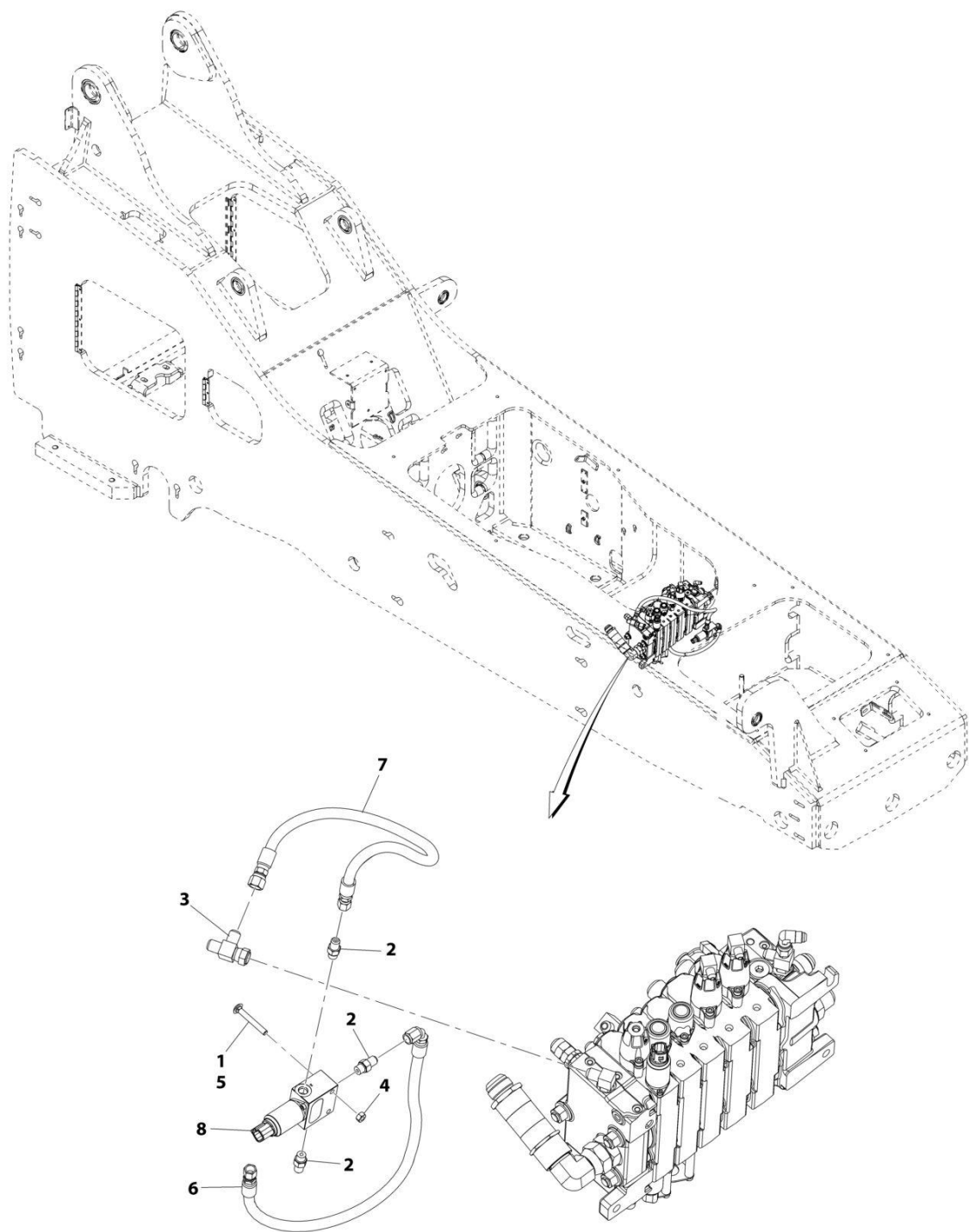
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-15. CYLINDER INSTALLATION - EXTEND

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158046	Ref	Extend Cylinder Installation	E
1	8303757	4	Bolt, 5/16-18X2-1/2	
2	8307004	4	Washer, Lock 5/16	
3	8750025	4	Cover Plate, Twin	
5	8750040	4	Clamp Set, Twin	
6	1001171190	2	Hose	

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FIGURE 8-16. CYLINDER INSTALLATION - EXTEND LOCKOUT



ART_1001244610-B

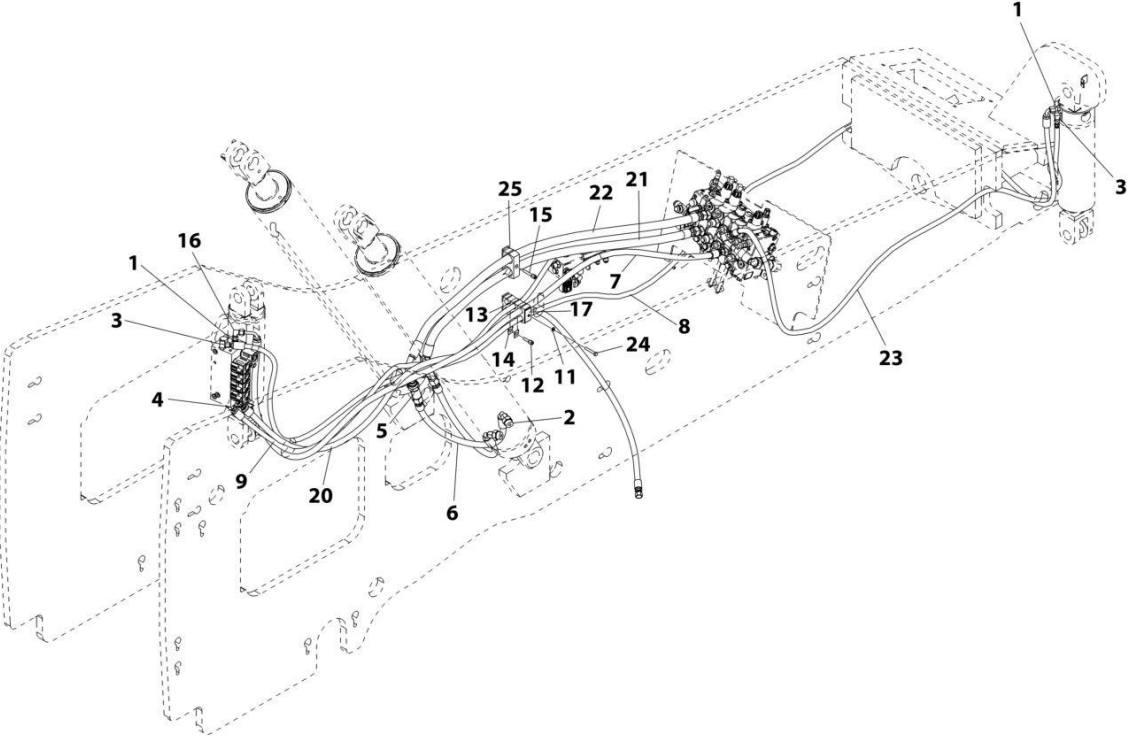
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-16. CYLINDER INSTALLATION - EXTEND LOCKOUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244610	Ref	Extend Cylinder Lockout Installation	B
1	0100011	AR	Compound, Locking	
2	2220415	3	Adapter, Straight	
3	2220635	1	Adapter, Run Tee	
4	8305004	2	Nut	
5	8310576	2	Bolt, Carriage	
6	1001244359	1	Hose Assembly	
7	1001244361	1	Hose Assembly	
8	1001245158	1	Valve, 2 Position/ 3 Port	
8	70030036	1	Valve, Solenoid	
8	70030037	2	Screw	

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FIGURE 8-17. CYLINDERS HYDRAULICS INSTALLATION - FRAME



ART_1001173841-G

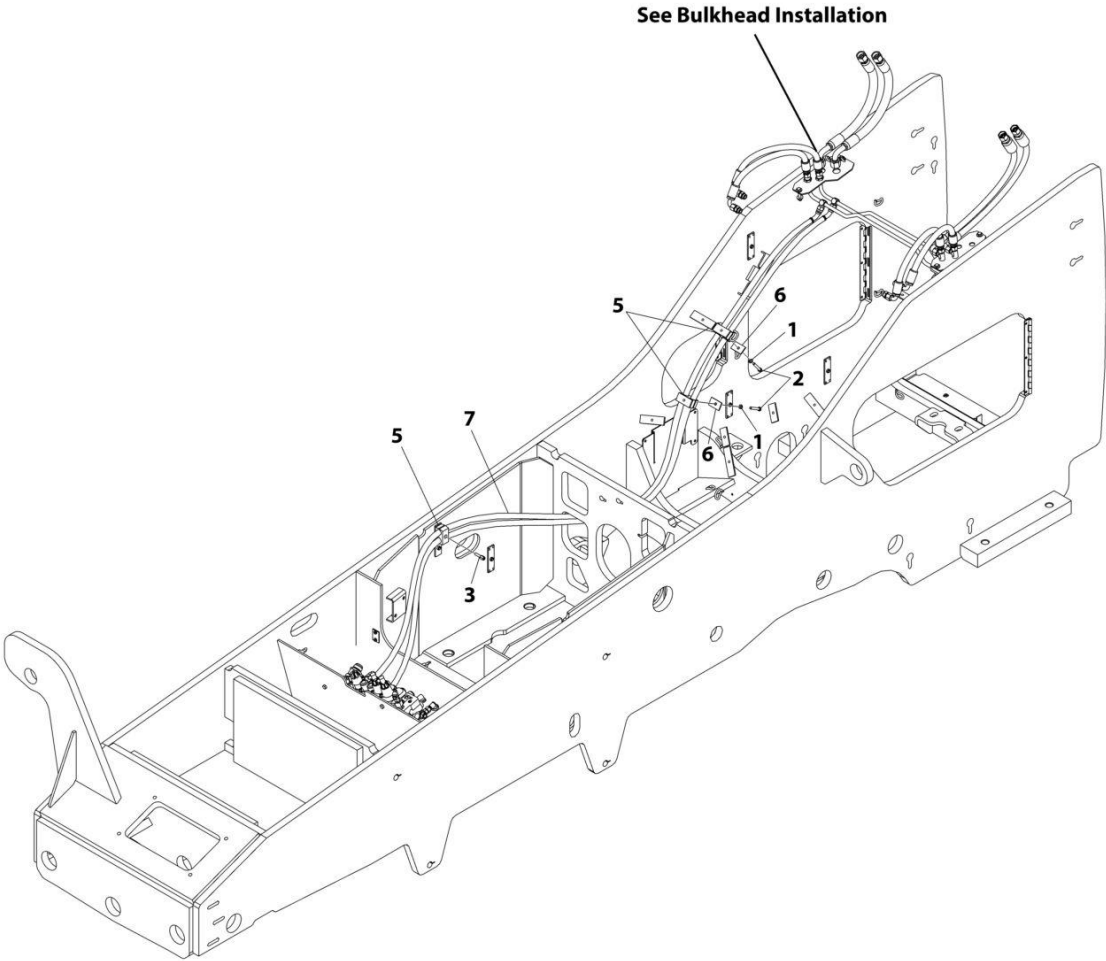
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-17. CYLINDERS HYDRAULICS INSTALLATION - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173841	Ref	Hydraulic Frame Cylinders Installation	G
1	2220371	2	Adapter, Straight	
2	2220375	2	Adapter, Straight	
3	2220473	2	Adapter, 90	
4	2220501	2	Adapter, 45	
5	2220695	2	Adapter, Branch Tee	
6	2716675	2	Hose	
7	2716686	1	Hose	
8	2716688	1	Hose	
9	2716691	1	Hose	
11	8307004	1	Washer, Lock 5/16	
12	8750012	1	Bolt, Stacking	
13	8750027	2	Clamp Set, Twin	
14	8750017	2	Plate, Twin Clamp Locking	
15	8750026	1	Bolt, Stacking	
16	8760268	1	Adapter, 90	
17	8769128	1	Cover Plate, Twin	
20	1001202384	1	Hose	
21	1001171191	1	Hose	
22	1001171193	1	Hose	
23	1001171194	1	Hose	
24	8310009	1	Bolt, 5/16X2	
25	8750040	1	Clamp Set, Twin	

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FIGURE 8-18. FORK TILT HYDRAULICS INSTALLATION



ART_1001158040

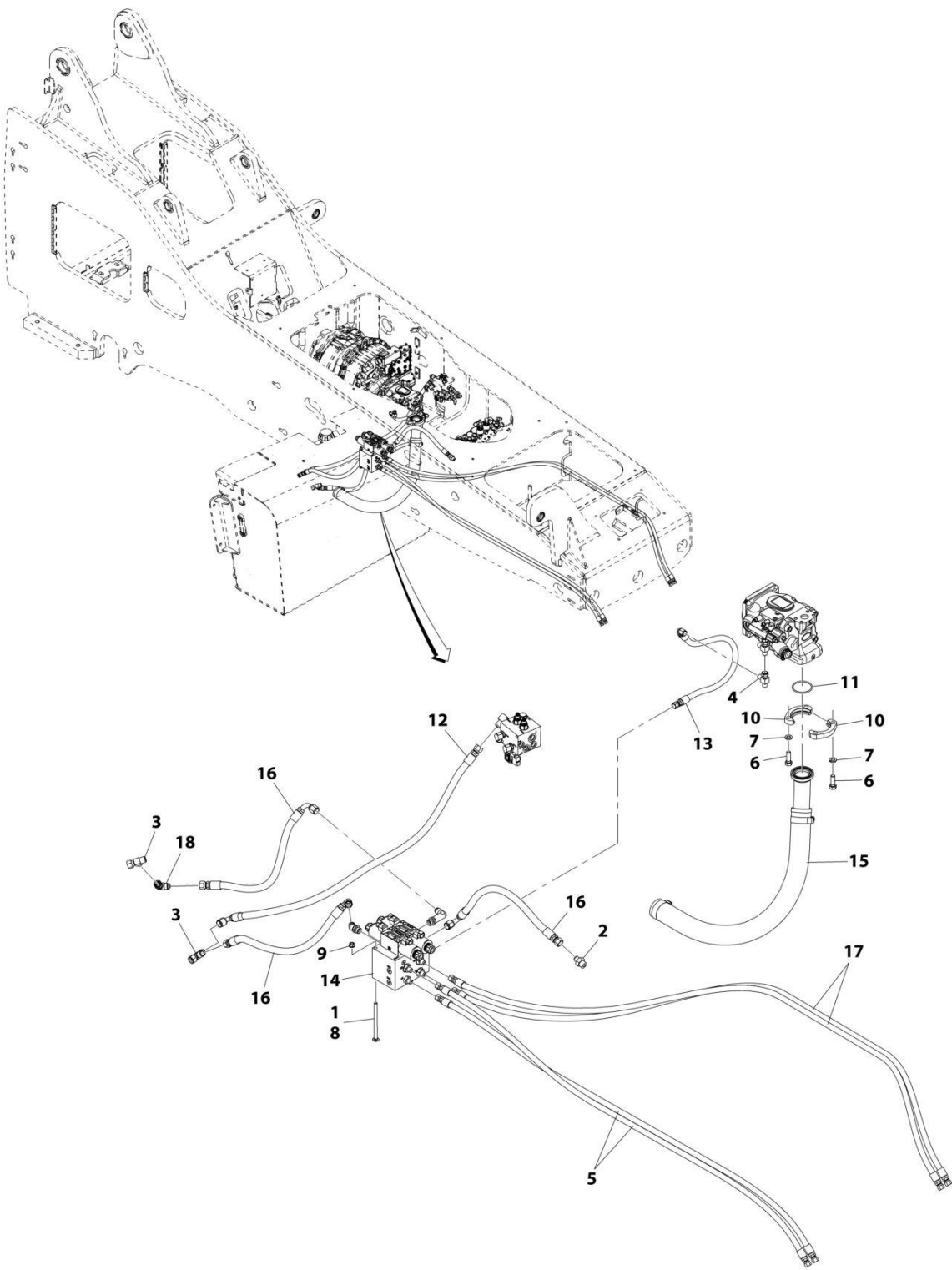
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FIGURE 8-18. FORK TILT HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158040	Ref	HYDRAULIC FORK TILT INSTALLATION	G
1	8307004	2	Washer 5/16	
2	8310009	2	Bolt 5/16 x 2	
3	8750012	1	Bolt, Stacking	
5	8750027	3	Clamp Set, Twin	
6	8769128	2	Cover Plate, Twin	
7	1001171188	2	Hose	

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FIGURE 8-19. FRAME HYDRAULICS INSTALLATION



ART_1001244867-B

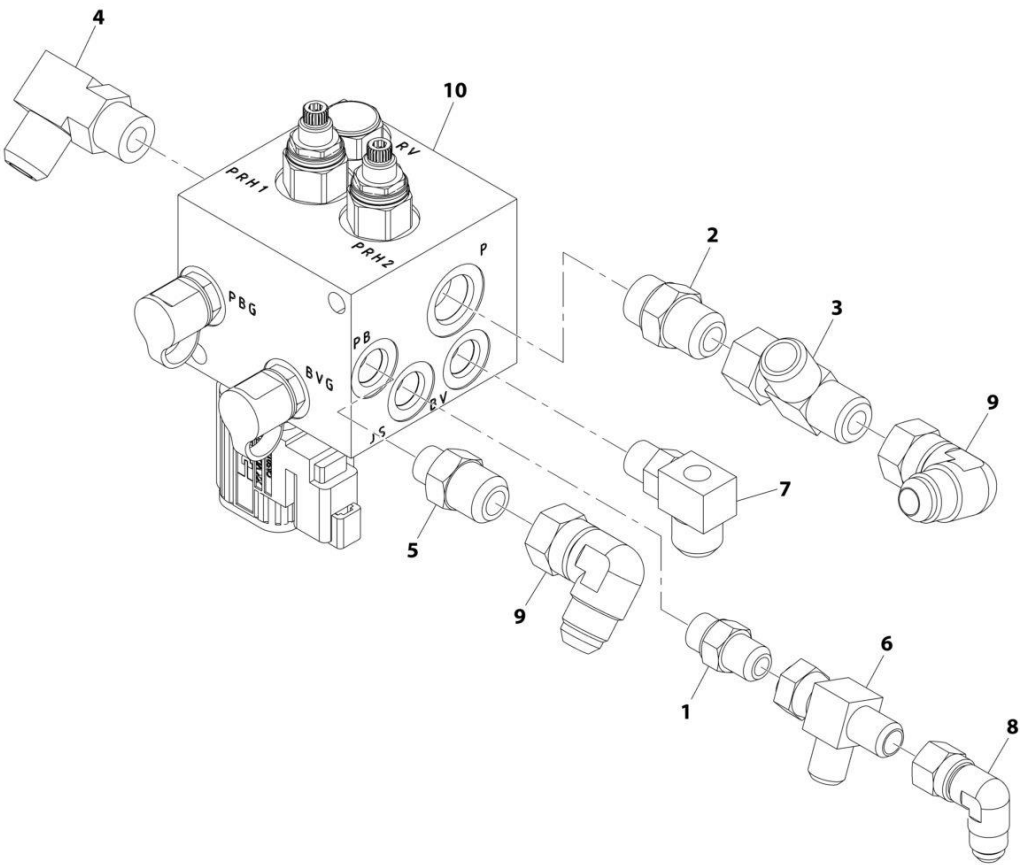
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FIGURE 8-19. FRAME HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244867	Ref	Frame Hydraulics Installation	B
1	0100011	AR	Compound, Locking	
2	2220374	1	Adapter	
3	2220385	2	Adapter	
4	2220635	1	Adapter	
5	2716665	2	Hose	
6	8303626	4	Bolt, 1/2-13X1-1/2	
7	8307007	4	Washer, Lock 1/2	
8	8310478	2	Bolt, 3/8-16X10	
9	8310522	2	Nut, Flange 3/8-16	
10	8546407	1	Flange Half	
11	8640208	1	O-Ring	
12	1001119610	1	Hose	
13	1001158576	1	Hose	
14	1001257141	1	Valve & Fittings Sub-Assembly - Outrigger (See Separate Breakdown in this Section)	
15	1001227508	1	Hose	
16	1001244871	3	Hose	
17	1001245070	2	Hose	
18	8765204	1	Adapter	

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FIGURE 8-20. FRAME SECONDARY VALVE & FITTINGS SUB-ASSEMBLY



ART_1001247171-A

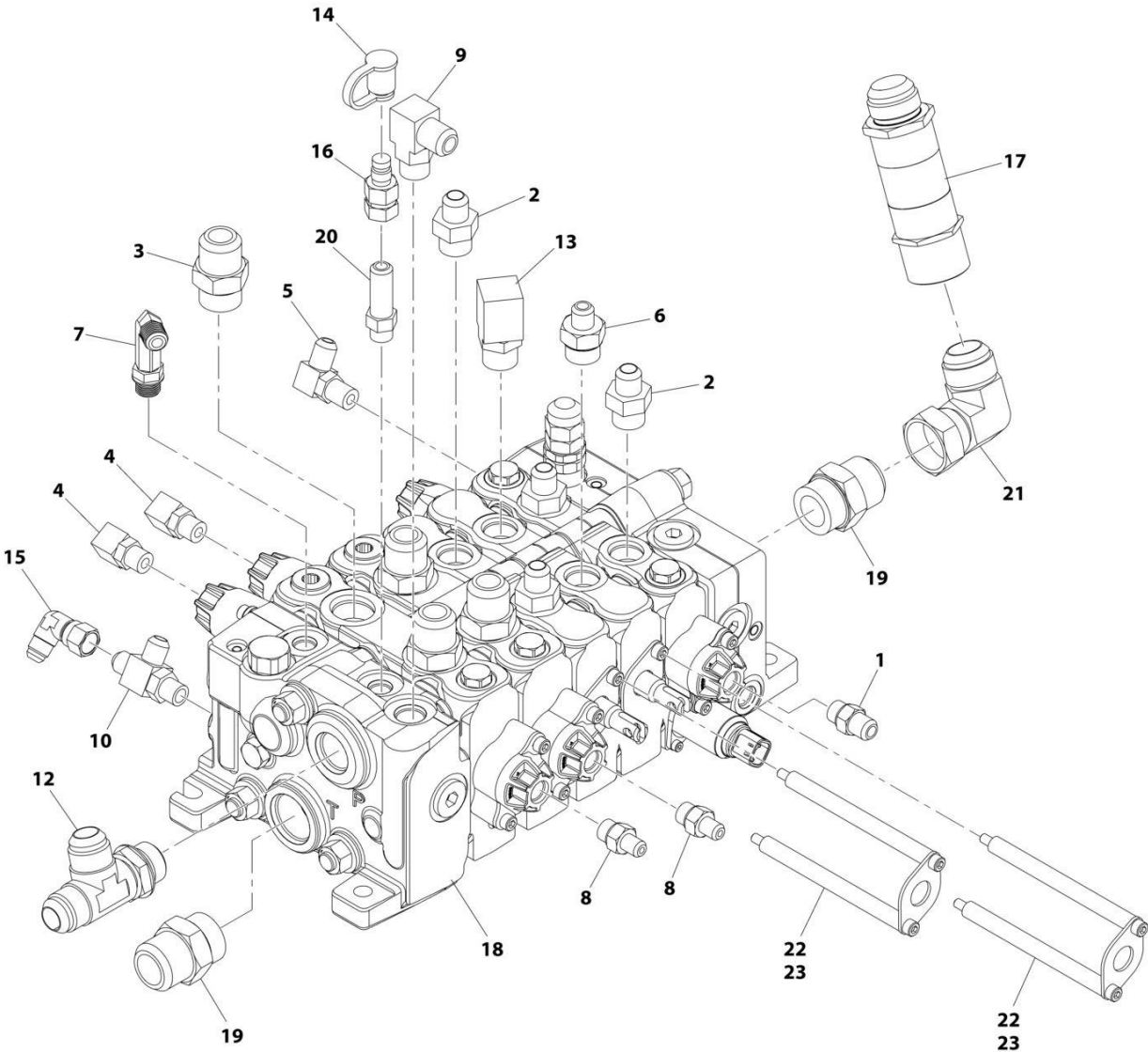
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FIGURE 8-20. FRAME SECONDARY VALVE & FITTINGS SUB-ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247171	Ref	Secondary Valve & Fittings Installation	A
1	2220371	1	Fitting, Straight JIC/ORB	
2	2220373	1	Fitting, Straight JIC/ORB	
3	2220385	1	Fitting, Tee JIC/FSJIC/JIC	
4	2220596	1	Fitting, 90 JIC/ORB	
5	2220600	1	Fitting, Straight ORB	
6	2220635	1	Fitting, Tee FM SW x JIC x JIC	
7	2220726	1	Fitting, 90 JIC/ORB	
8	8760268	1	Fitting, 90 JIC/FSJIC	
9	8765204	2	Fitting, 90 JIC/FSJIC	
10	1001247045	1	Valve Assembly - Secondary (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	

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FIGURE 8-21. MAIN CONTROL VALVE & FITTINGS SUB-ASSEMBLY



ART_1001243411-C

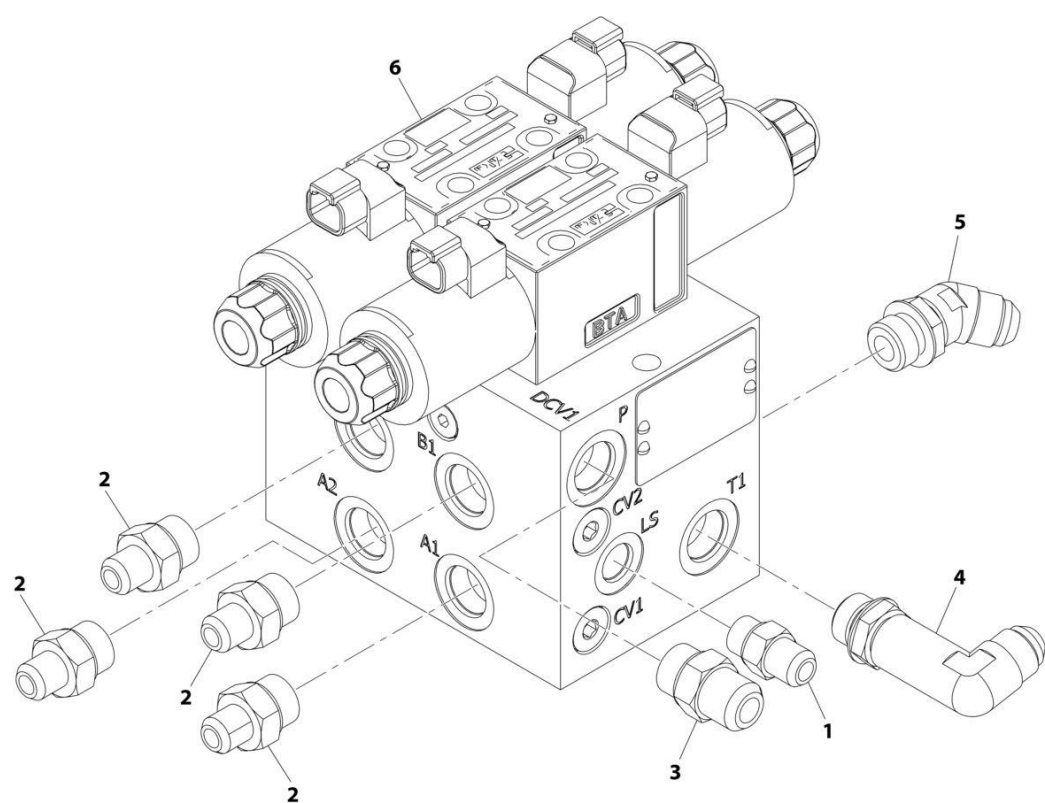
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-21. MAIN CONTROL VALVE & FITTINGS SUB-ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243411	Ref	Main Control Valve & Fittings Sub-Assembly	C
1	2220371	1	Adapter	
2	2220374	4	Adapter	
3	2220451	4	Adapter	
4	2220472	2	Adapter	
5	2220473	1	Adapter	
6	2220497	1	Adapter	
7	2220819	1	Adapter	
8	2220582	2	Adapter	
9	2220596	1	Adapter	
10	2220606	1	Adapter	
12	2220738	1	Adapter	
13	2220828	1	Adapter	
14	8430032	1	Plug	
15	8760268	1	Adapter	
16	8430046	1	Adapter	
17	1001174375	1	Valve, Check	
18	1001242925	1	Valve, Main Control Valve Assembly (See Separate Breakdown in HYDRAULIC COMPONENTS SECTION)	
19	2220377	2	Adapter	
20	2220998	1	Adapter	
21	2220878	1	Adapter	
22	1001254386	2	Mount, Cable Control	
23	0100011	AR	Compound, Locking	

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FIGURE 8-22. OUTRIGGER & FITINGS SUB-VALVE ASSEMBLY



ART_1001257141-A

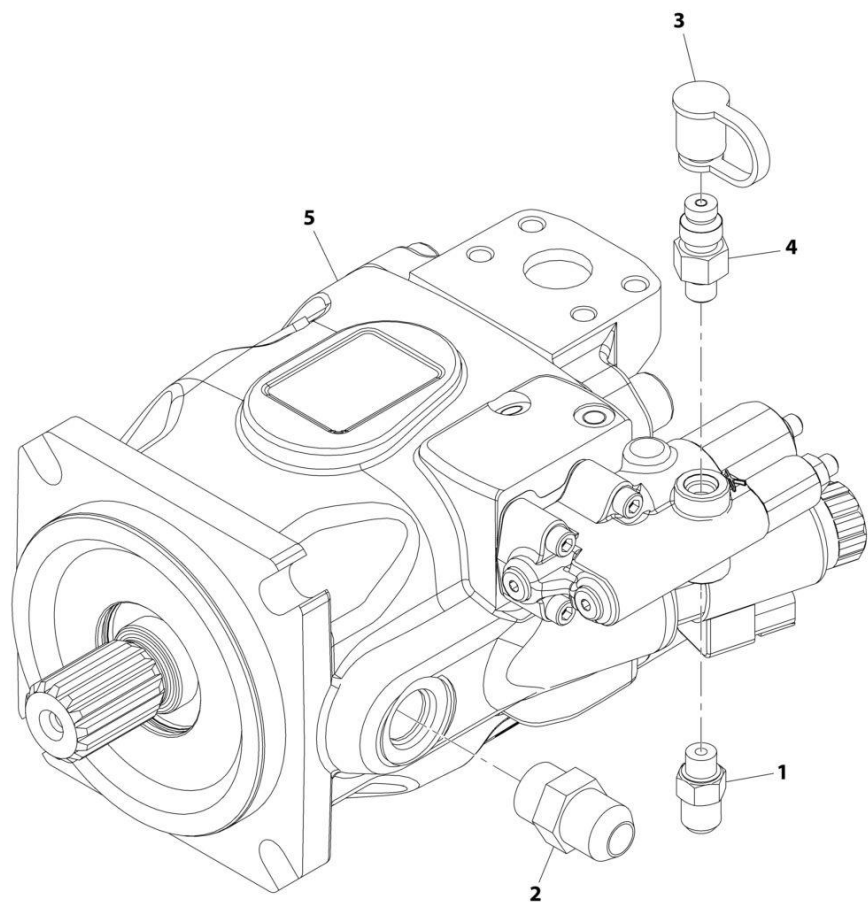
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-22. OUTRIGGER & FITINGS SUB-VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001257141	Ref	Outrigger Valve & Fittings Sub-Assembly	A
1	2220371	1	Adapter, Straight JIC	
2	2220372	4	Adapter, Straight JIC	
3	2220373	1	Adapter, Straight JIC	
4	2220474	1	Adapter, 90	
5	2220500	1	Adapter, 45	
6	1001247857	1	Valve Assembly - Outrigger (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	

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FIGURE 8-23. PISTON PUMP INSTALLATION



ART_1001251426-A

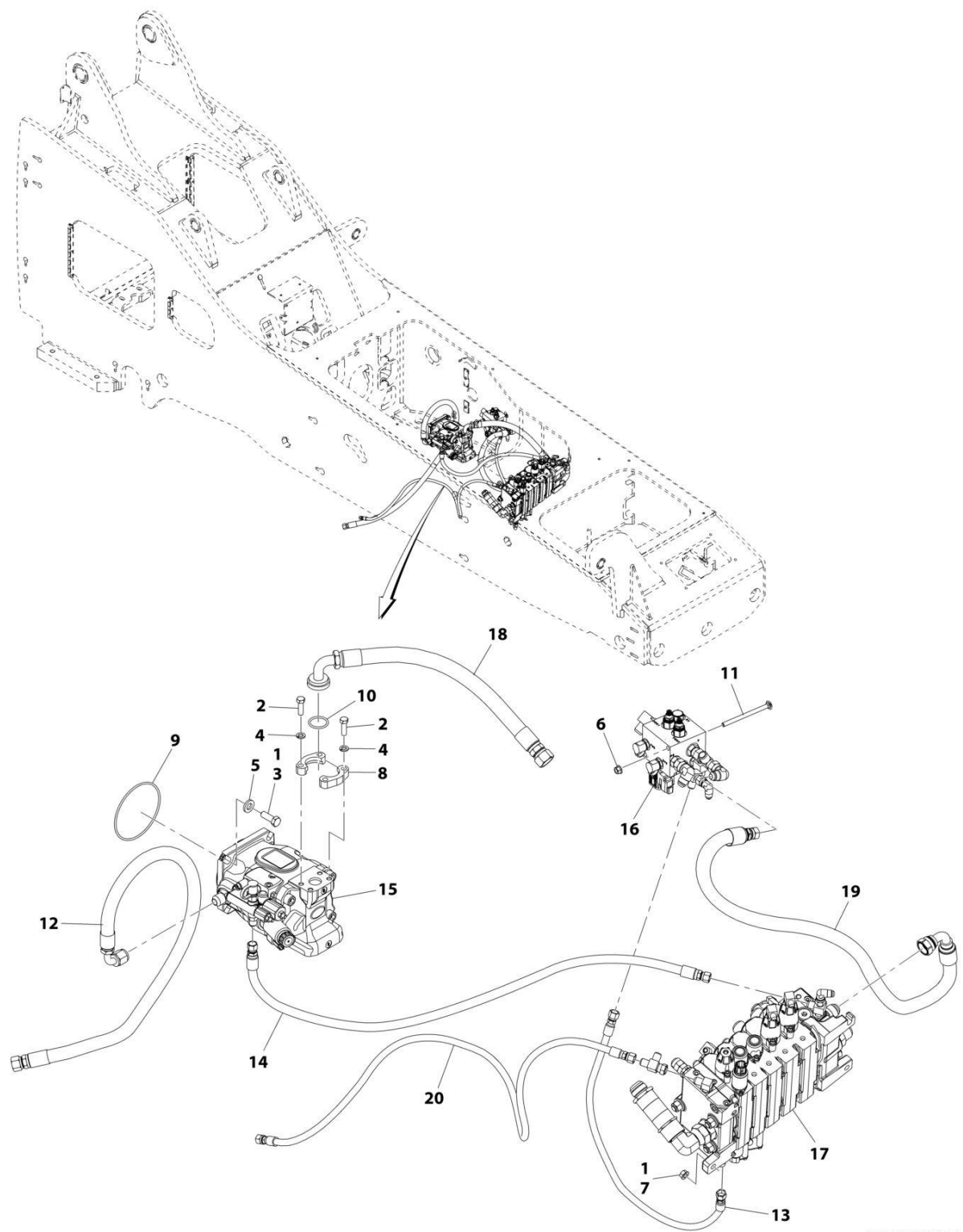
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FIGURE 8-23. PISTON PUMP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251426	Ref	Piston Pump Installation	A
1	2220603	1	Adapter, Straight	
2	2220947	1	Adapter, Straight	
3	8430032	1	Cap Dust	
4	8430033	1	Adapter	
5	1001251423	1	Pump, Piston (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	

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FIGURE 8-24. PUMP HYDRAULICS INSTALLATION



ART_1001243412-B

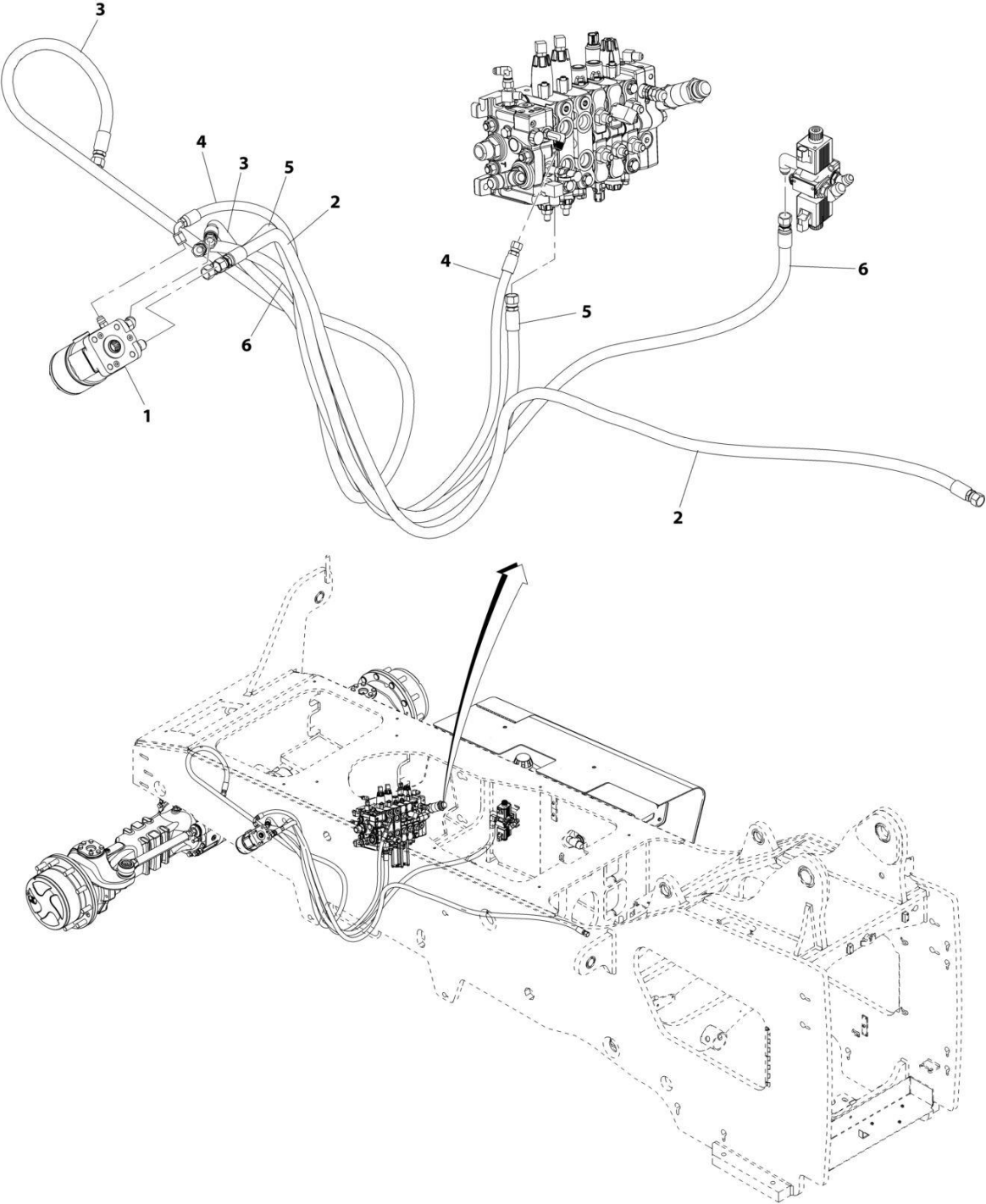
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FIGURE 8-24. PUMP HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243412	Ref	Hydraulic Pump Installation	C
1	0100011	AR	Compound, Locking	
2	8303675	4	Screw, 3/8 x 1-1/4	
3	8303519	4	Screw, M12 x 1-3/4	
4	8307005	4	Washer	
5	8310356	4	Washer	
6	8310420	2	Nut	
7	8310522	3	Nut	
8	8530030	2	Flange	
9	8630019	1	O-Ring	
10	8640123	1	O-Ring	
11	1001163685	2	Bolt, 5/16-18 x 4-1/2	
12	1001168451	1	Hose Assembly	
13	1001194592	1	Hose Assembly	
14	1001198684	1	Hose Assembly	
15	1001251426	1	Piston Pump Installation	
16	1001247171	1	Valve & Fitting Assembly - Secondary (See Separate Breakdown in this Section)	
17	1001243411	1	Valve & Fitting Assembly - Main (See Separate Breakdown in this Section)	
18	1001244278	1	Hose Assembly	
19	1001247654	1	Hose Assembly	
20	1001244302	1	Hose Assembly	

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FIGURE 8-25. STEERING HYDRAULICS INSTALLATION



ART_1001245057-B

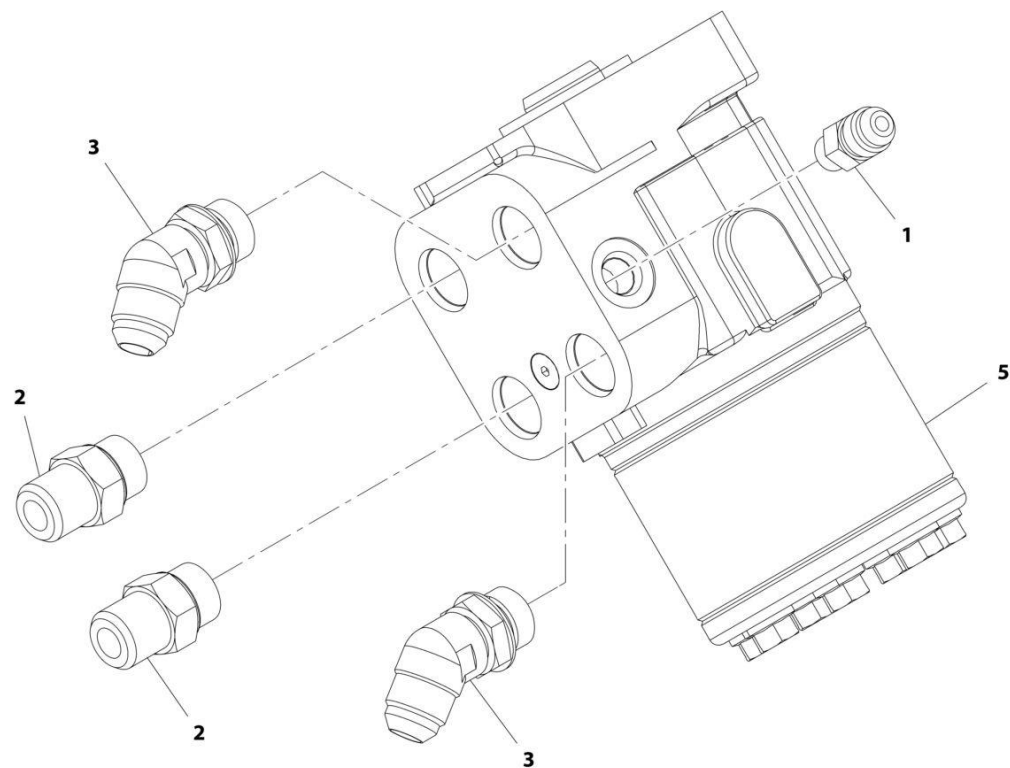
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FIGURE 8-25. STEERING HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001245057	Ref	Hydraulic Steering Installation	B
	1001158528	1	Steering Valve Installation (See Separate Breakdown in this Section)	
2	1001245058	1	Hose Assembly	
3	1001157102	1	Hose Assembly	
4	1001158357	1	Hose Assembly	
5	1001171786	1	Hose Assembly	
6	1001173177	1	Hose Assembly	

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FIGURE 8-26. STEERING VALVE INSTALLATION



ART_1001158528-C

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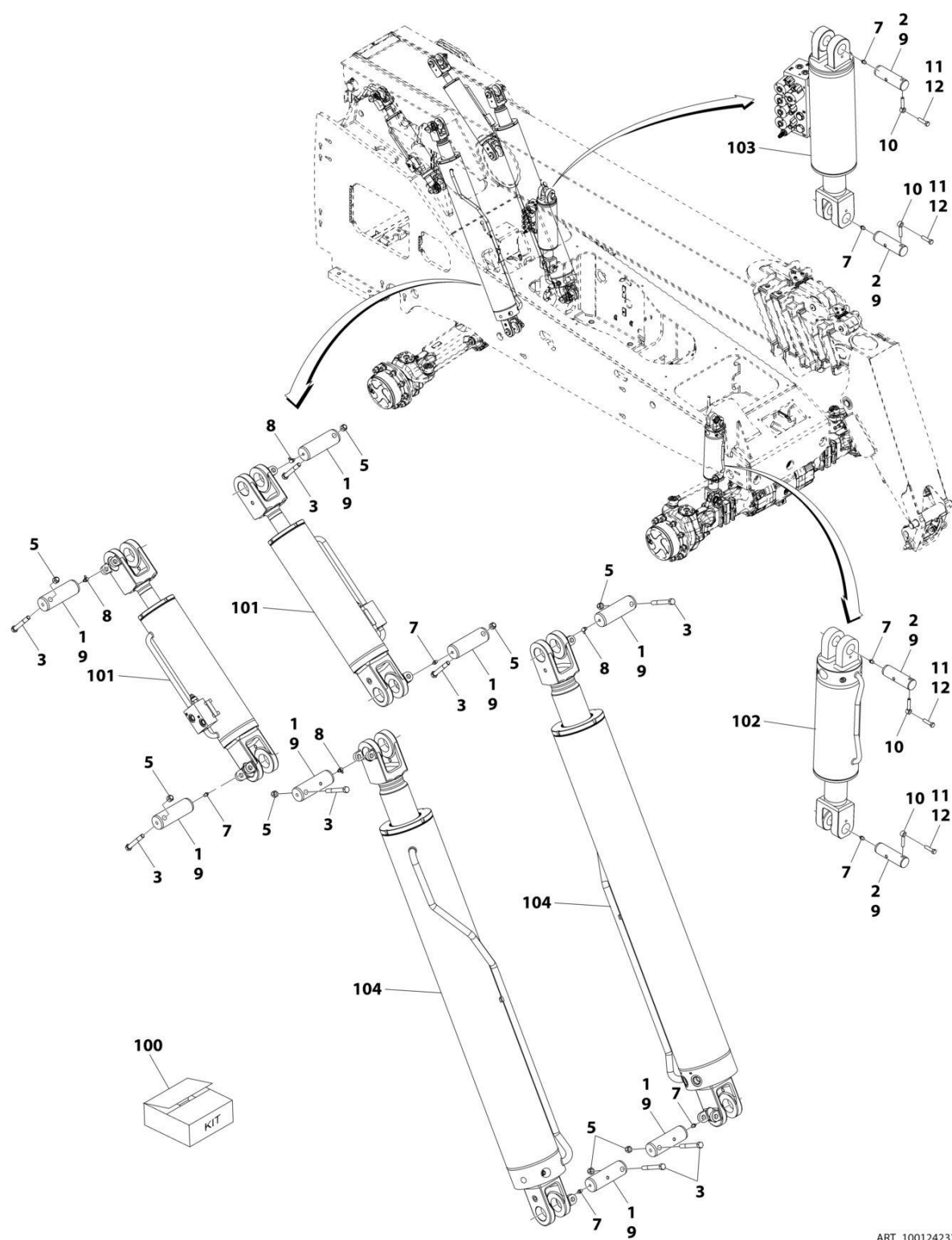
FIGURE 8-26. STEERING VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158528	1	Steering Valve & Fitting Assembly	C
1	2220603	1	Adapter, Straight JIC	
2	2220373	2	Adapter, Straight JIC	
3	2220500	2	Adapter, 45 JIC	
5	1001158527	1	Valve, Steering	
5	70026401	1	Seal Kit - Steering Valve	

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FIGURE 9-1. CYLINDER GROUP INSTALLATION



ART_1001242327-C

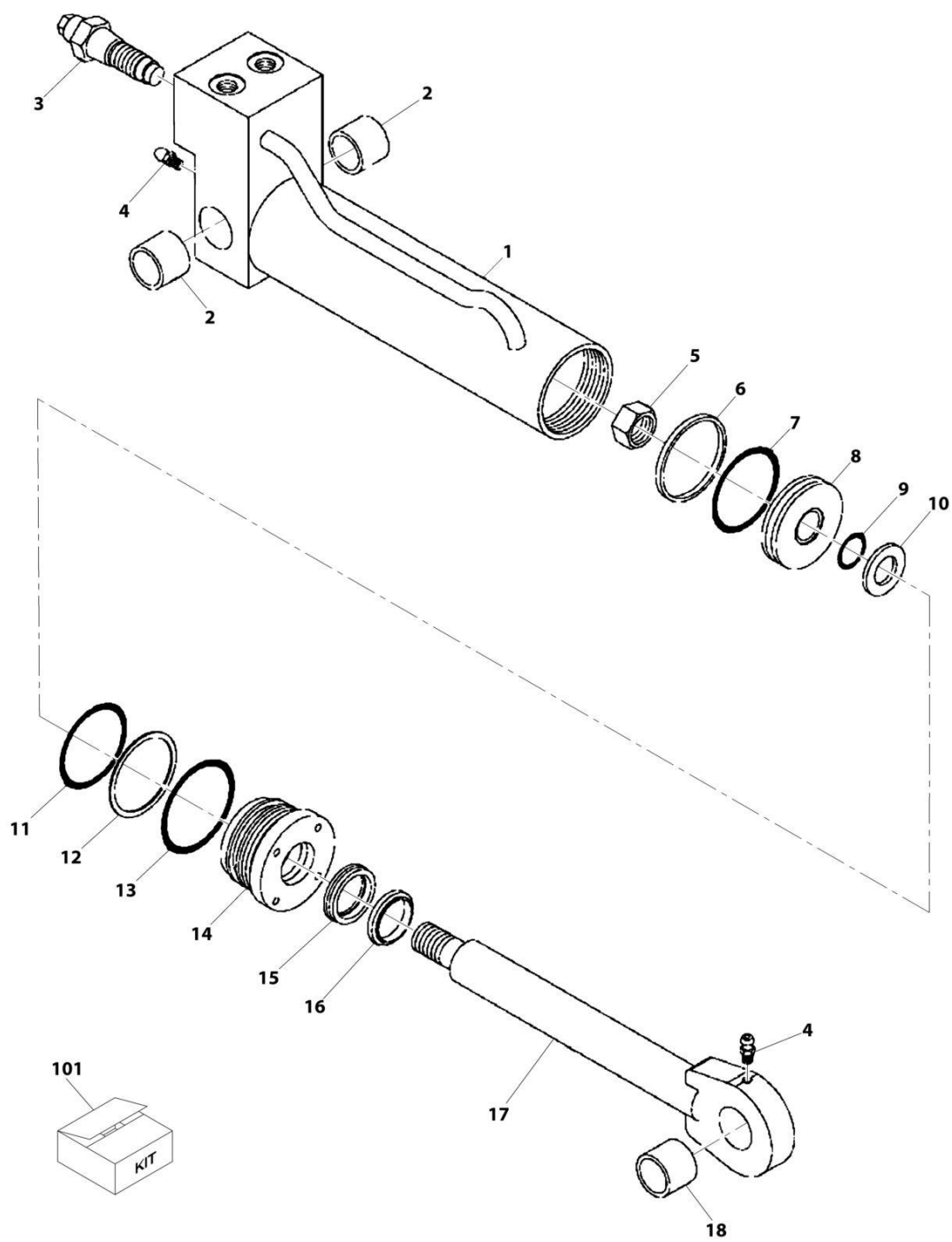
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FIGURE 9-1. CYLINDER GROUP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242327	Ref	Cylinder Group Installation	C
1	3423227	8	Pin	
2	1001250505	4	Pin	
3	8303782	8	Bolt, 1/2-13X4	
5	8305644	8	Nut	
7	8520001	8	Fitting, Straight Lube 1/8	
8	8520003	4	Fitting, 90 Lube 1/8	
9	8522012	AR	Lube	
10	3841520	4	Keeper	
11	8303621	4	Screw 3/8 x 3/2	
12	0100011	AR	Compound, Locking	
100	1001245093	1	Cylinder Kit	
101	1001242688	2	Compensation Cylinder	
102	1001239181	1	Frame Level Cylinder	
103	1001239182	1	Stabil-Trak Cylinder	
104	1001239179	2	Lift Cylinder	

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FIGURE 9-2. CYLINDER - BUCKET (GRAPPLE)



ART_70021393-A

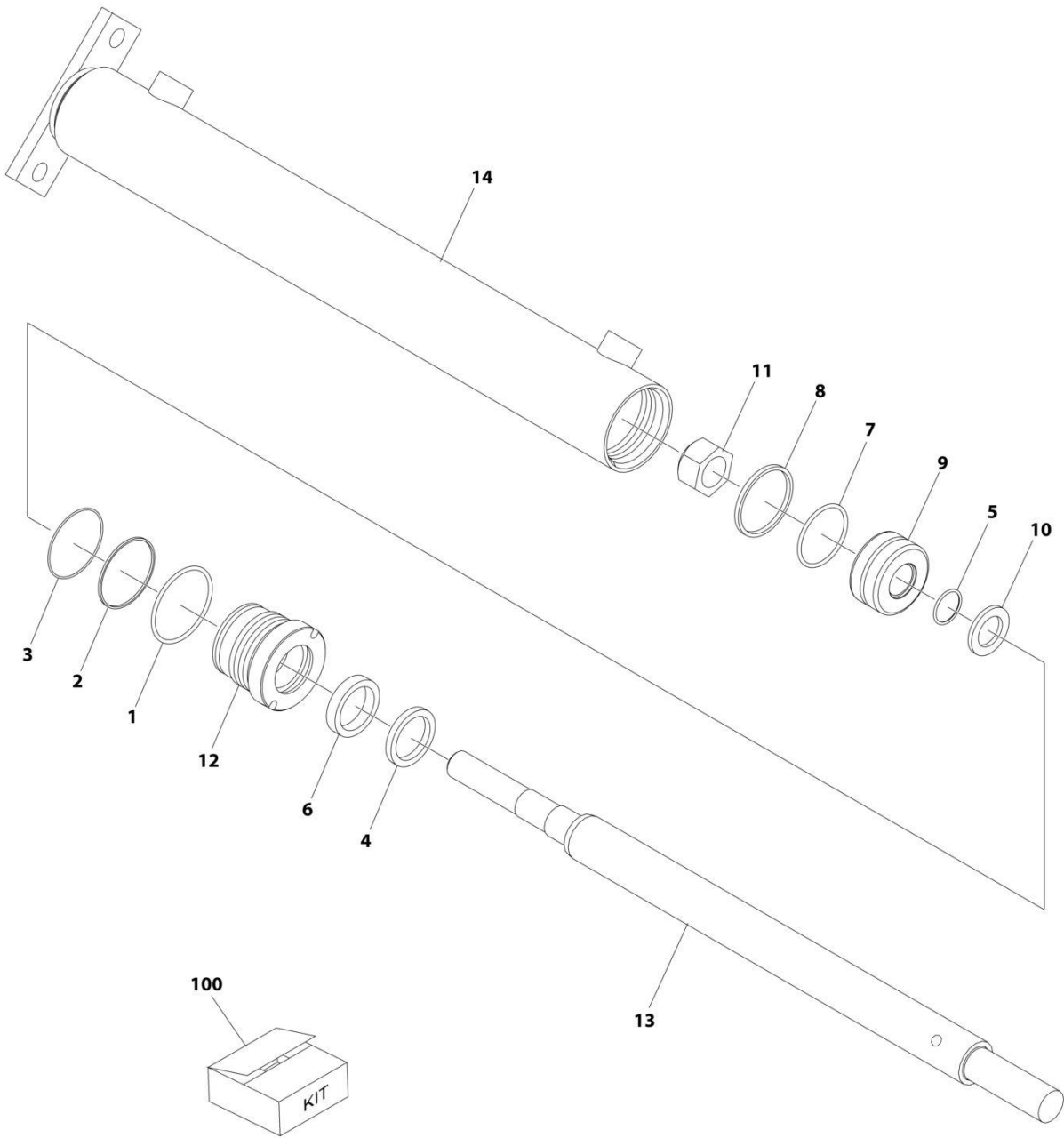
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FIGURE 9-2. CYLINDER - BUCKET (GRAPPLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021393	Ref	Grapple Bucket Cylinder	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70021465	1	Barrel	
2	70021448	2	Bushing	
3	70021464	2	Cartridge, Valve	
4	90554045	2	Fitting, Grease	
5	70021440	1	Nut	
6	Kit	NSS	Ring, Piston (Note: Use Item 101)	
7	Kit	NSS	O-Ring (Note: Use Item 101)	
8	70021451	1	Piston	
9	Kit	NSS	O-Ring (Note: Use Item 101)	
10	70021444	1	Washer	
11	Kit	NSS	O-Ring (Note: Use Item 101)	
12	Kit	NSS	Washer, Back-Up (Note: Use Item 101)	
13	Kit	NSS	O-Ring (Note: Use Item 101)	
14	70021446	1	Head	
15	Kit	NSS	Seal, Poly-Pak (Note: Use Item 101)	
16	Kit	NSS	Wiper, Rod (Note: Use Item 101)	
17	70021466	1	Rod	
18	70021447	1	Bushing	
101	70021452	1	Kit, Seal (includes items 6, 7, 9, 11 thru 13, 15 & 16)	

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FIGURE 9-3. CYLINDER - CARRIAGE (DUAL FORK)



ART_2717283

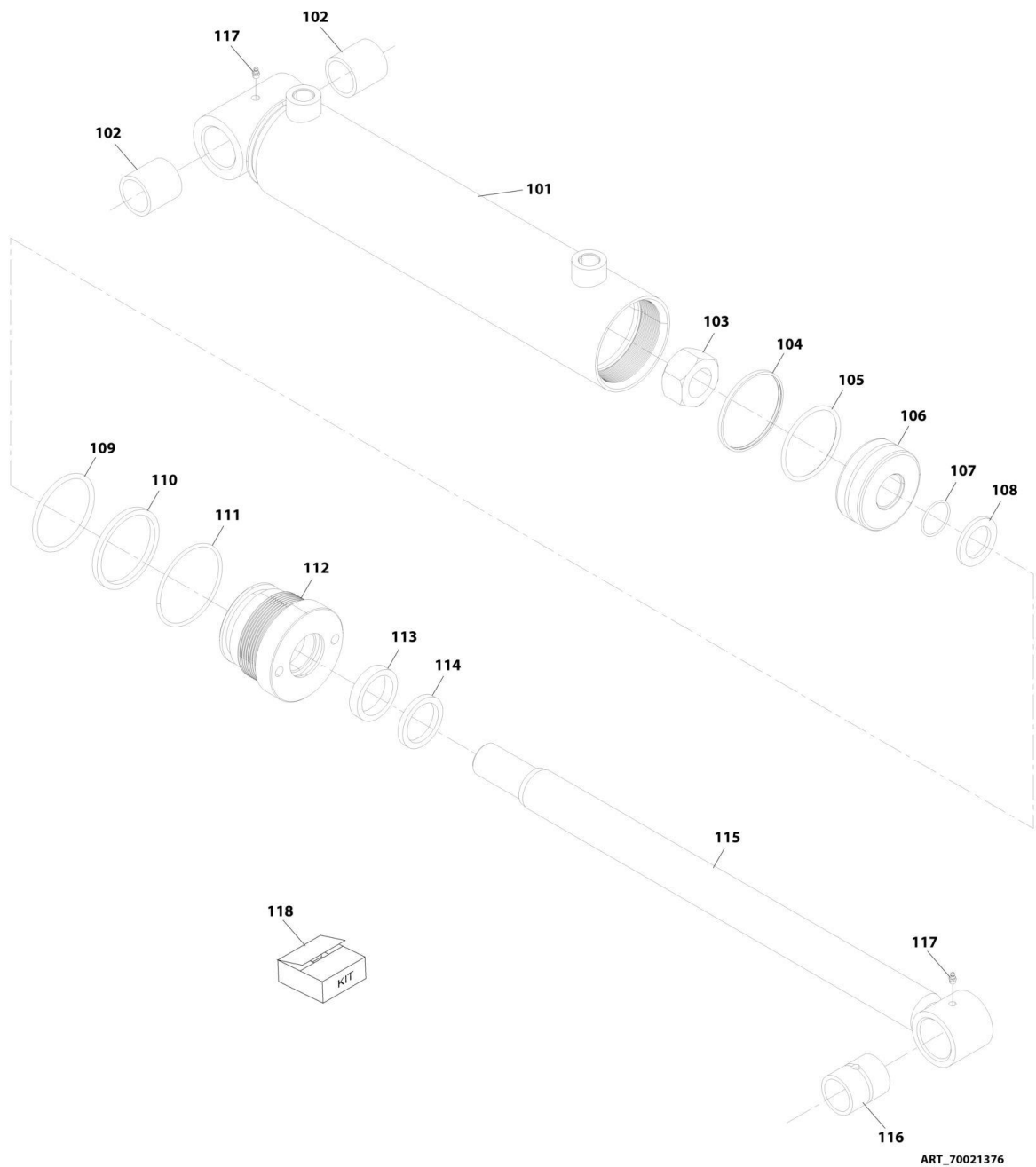
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FIGURE 9-3. CYLINDER - CARRIAGE (DUAL FORK)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2717283	Ref	FORK POSITIONING CYLINDER	B
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	O-Ring (Use Item 100)	
2	See Note	NSS	Ring, Back-up (Use Item 100)	
3	See Note	NSS	O-Ring (Use Item 100)	
4	See Note	NSS	Seal (Use Item 100)	
5	See Note	NSS	O-Ring (Use Item 100)	
6	See Note	NSS	Seal (Use Item 100)	
7	See Note	NSS	O-Ring (Use Item 100)	
8	See Note	NSS	Seal (Use Item 100)	
9	70026771	1	Piston	
10	70026775	1	Washer	
11	70026770	1	Nut	
12	70026774	1	Head	
13	70026773	1	Rod	
14	See Note	NSS	Barrel (Note: Use PN 2717283)	
100	8036733	1	Seal Kit (includes items 1 thru 8)	

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FIGURE 9-4. CYLINDER - CARRIAGE (SIDE SHIFT)



ART_70021376

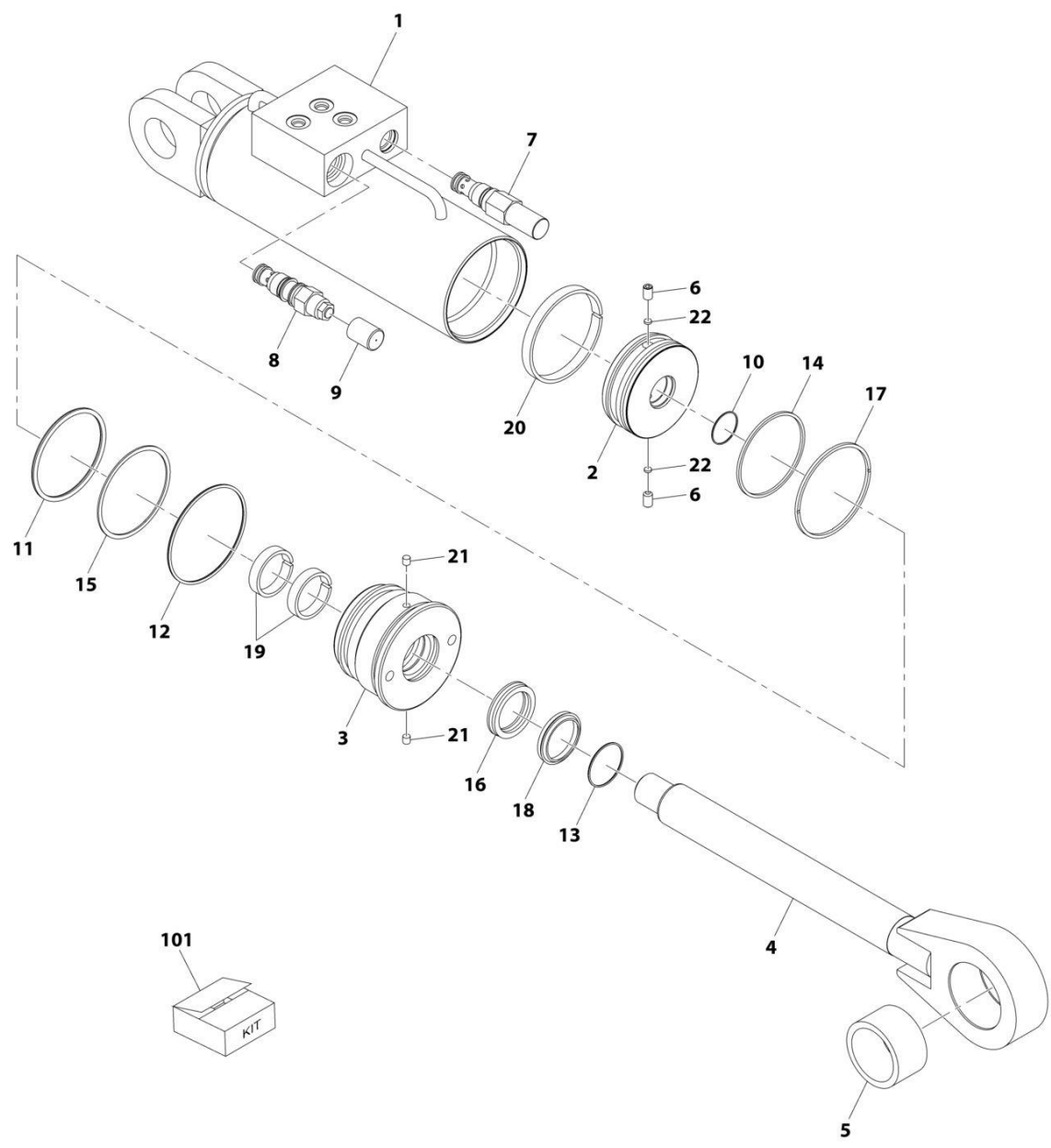
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FIGURE 9-4. CYLINDER - CARRIAGE (SIDE SHIFT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021376	1	Cylinder Assembly, Side Shift Carriage 12K	
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
101	See Note	NSS	Barrel (Note: Use PN 70021376)	
102	70021448	2	Bushing	
103	70021440	1	Nut	
104	See Note	NSS	Ring, Piston (Note Use Item 118)	
105	See Note	NSS	O-Ring (Note: Use Item 118)	
106	70021451	1	Piston	
107	See Note	NSS	O-Ring (Note: Use Item 118)	
108	70021444	1	Spacer, Sheave	
109	See Note	NSS	O-Ring (Note: Use Item 118)	
110	See Note	NSS	Washer, Back-Up (Note: Use Item 118)	
111	See Note	NSS	O-Ring (Note: Use Item 118)	
112	70021446	1	Head	
113	See Note	NSS	Seal (Note: Use Item 118)	
114	See Note	NSS	Wiper, Rod (Note: Use Item 118)	
115	70021445	1	Rod	
116	70021447	1	Bushing	
117	90554045	2	Grease Fitting	
118	70021452	1	Seal Kit, (includes items 104, 105, 107, 109, 110, 111, 113 & 114)	

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FIGURE 9-5. CYLINDER - CARRIAGE (SWING)



ART_1001103182-B

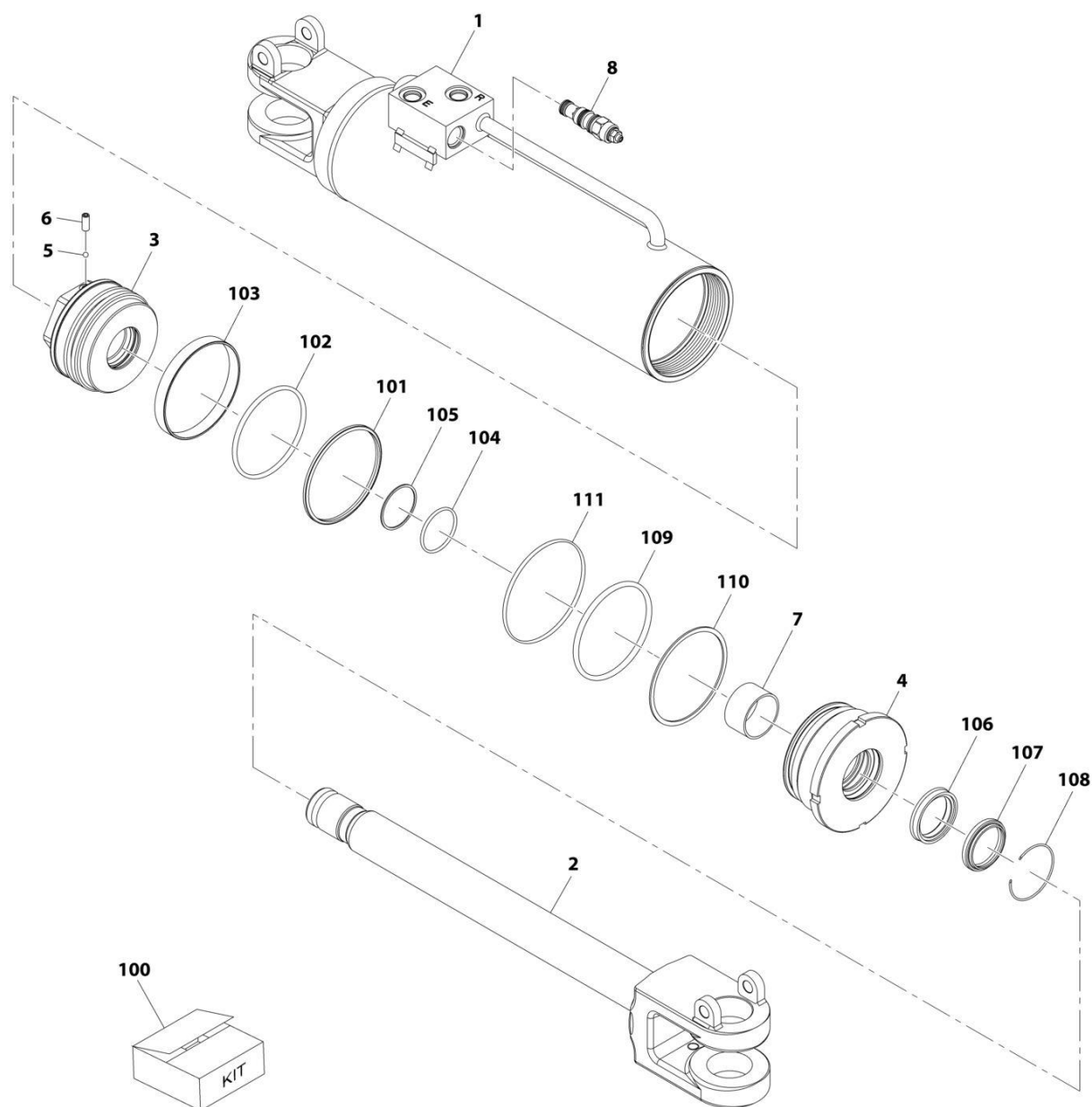
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FIGURE 9-5. CYLINDER - CARRIAGE (SWING)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103182	Ref	Swing Carriage Cylinder	B
1	70022044	1	Barrel	
2	8035863	1	Piston	
3	8035862	1	Head	
4	70022045	1	Rod	
5	70022046	1	Bearing	
6	8035536	2	Setscrew 5/16X1/2	
7	70020428	1	Valve, Relief	
7	7024574	1	Kit, Seal	
8	8033786	1	Valve, Counterbalance	
8	8205655	1	Kit, Seal	
9	70021812	1	Tamper-proof Cap	
10	See Note	NSS	O-Ring (Note: Use Item 101)	
11	See Note	NSS	O-Ring (Note: Use Item 101)	
12	See Note	NSS	O-Ring (Note: Use Item 101)	
13	See Note	NSS	O-Ring (Note: Use Item 101)	
14	See Note	NSS	Ring, Square (Note: Use Item 101)	
15	See Note	NSS	Ring, Backup (Note: Use Item 101)	
16	See Note	NSS	Seal (Note: Use Item 101)	
17	See Note	NSS	Seal, Piston (Note: Use Item 101)	
18	See Note	NSS	Wiper, Rod (Note: Use Item 101)	
19	See Note	NSS	Ring, Wear (Note: Use Item 101)	
20	See Note	NSS	Ring, Wear (Note: Use Item 101)	
21	See Note	NSS	Insert (Note: Use Item 101)	
22	See Note	NSS	Insert (Note: Use Item 101)	
101	2915023	1	Kit, Seal (includes items 11 thru 22)	

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FIGURE 9-6. CYLINDER - COMPENSATION



ART_1001242688-E

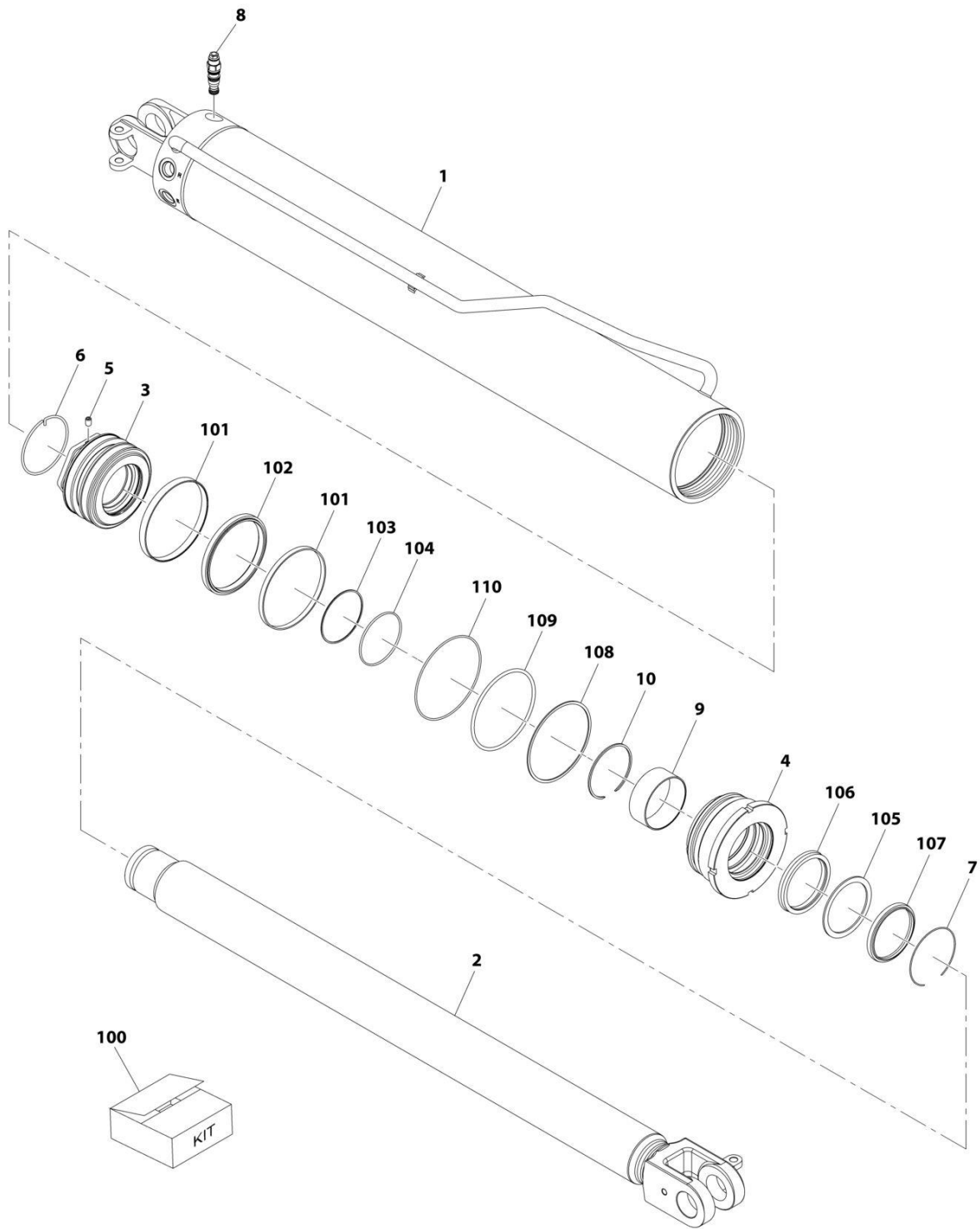
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FIGURE 9-6. CYLINDER - COMPENSATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242688	Ref	Compensation Cylinder	E
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	N.S.S.	1	Barrel	
2	70029590	1	Rod	
3	70029574	1	Piston	
4	70029575	1	Head End Cover	
5	70029576	1	Steel Ball	
6	70029577	1	Set Screw	
7	70029578	1	Bushing	
8	1001255574	1	Counterbalance Valve	
8	70028164	1	Seal Kit, CB Valve	
100	70029579	1	Seal Kit (Includes Items 101 thru 111)	
101	N.S.S.	1	Piston Seal	
102	N.S.S.	1	O-Ring	
103	N.S.S.	1	Piston Bearing	
104	N.S.S.	1	O-Ring	
105	N.S.S.	1	Back-Up Ring	
106	N.S.S.	1	Rod Seal	
107	N.S.S.	1	Wiper	
108	N.S.S.	1	Snap Ring	
109	N.S.S.	1	O-Ring	
110	N.S.S.	1	Back-Up Ring	
111	N.S.S.	1	O-Ring	

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FIGURE 9-7. CYLINDER - LIFT



ART_1001239179-D

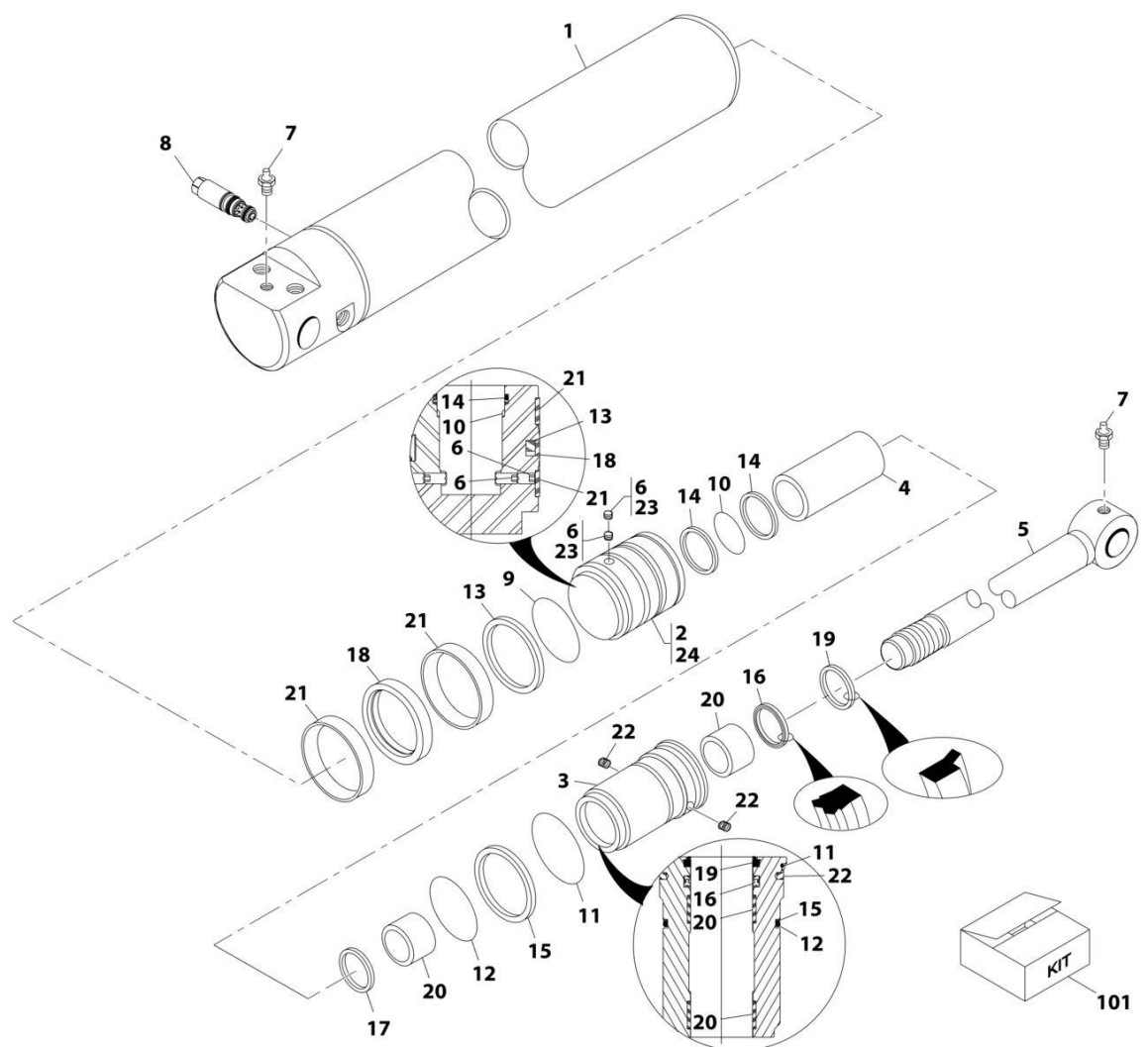
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FIGURE 9-7. CYLINDER - LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239179	Ref	Lift Cylinder	D
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	N.S.S.	1	Barrel	
2	70029589	1	Rod	
3	70029559	1	Piston	
4	70029560	1	Head End Cover	
5	70029561	1	Set Screw	
6	70029562	1	Snap Ring	
7	70029563	1	Snap Ring	
8	1001254411	1	Counterbalance Valve (Note: No Seal Kit Available)	
9	70029564	1	Bushing	
10	70029565	1	Snap Ring	
100	70029566	1	Seal Kit	
101	N.S.S.	2	Piston Bearing	
102	N.S.S.	1	Piston Seal	
103	N.S.S.	1	Back-Up Ring	
104	N.S.S.	1	O-Ring	
105	N.S.S.	1	Back-Up Ring	
106	N.S.S.	1	Rod Seal	
107	N.S.S.	1	Wiper	
108	N.S.S.	1	Back-Up Ring	
109	N.S.S.	1	O-Ring	
110	N.S.S.	1	O-Ring	

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FIGURE 9-8. CYLINDER - EXTEND/RETRACT



ART_1001156009-D

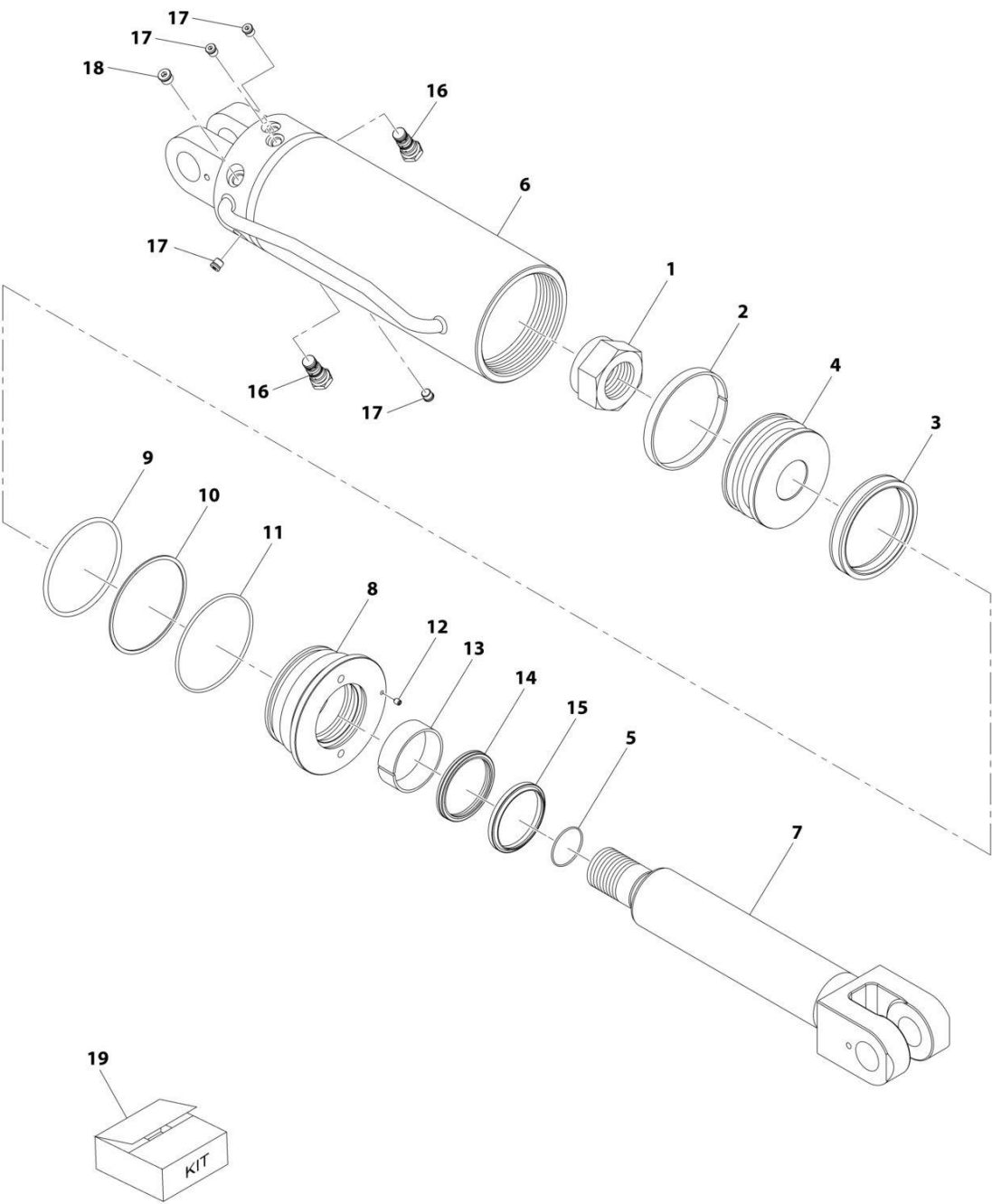
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-8. CYLINDER - EXTEND/RETRACT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001156009	Ref	Extend/Retract Cylinder	D
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70026036	1	Barrel	
2	70026039	1	Piston	
3	70026040	1	Head	
4	70026041	1	Spacer, Rod	
5	70026042	1	Rod	
6	8035536	2	Screw, 5/16-18X1/2	
7	70020375	2	Fitting, Straight Lube	
8	1001170316	1	Cartridge, Counterbalance Valve	
9	Kit	1	O-Ring	
10	Kit	1	O-Ring	
11	Kit	1	O-Ring	
12	Kit	1	O-Ring	
13	Kit	1	Ring, Square	
14	Kit	2	Ring, Backup	
15	Kit	1	Ring, Backup	
16	Kit	1	U-Cup	
17	Kit	1	Seal, Buffer	
18	Kit	1	Seal, Piston	
19	Kit	1	Seal, Wiper	
20	Kit	2	Ring, Wear	
21	Kit	2	Ring, Wear	
22	Kit	2	Insert, Locking	
23	8526007	AR	Compound, Locking	
24	8526011	AR	Compound, Locking	
101	70026043	1	Kit, Seal (includes items 9 thru 22)	

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FIGURE 9-9. CYLINDER - FRAME LEVEL



ART_1001239181-H

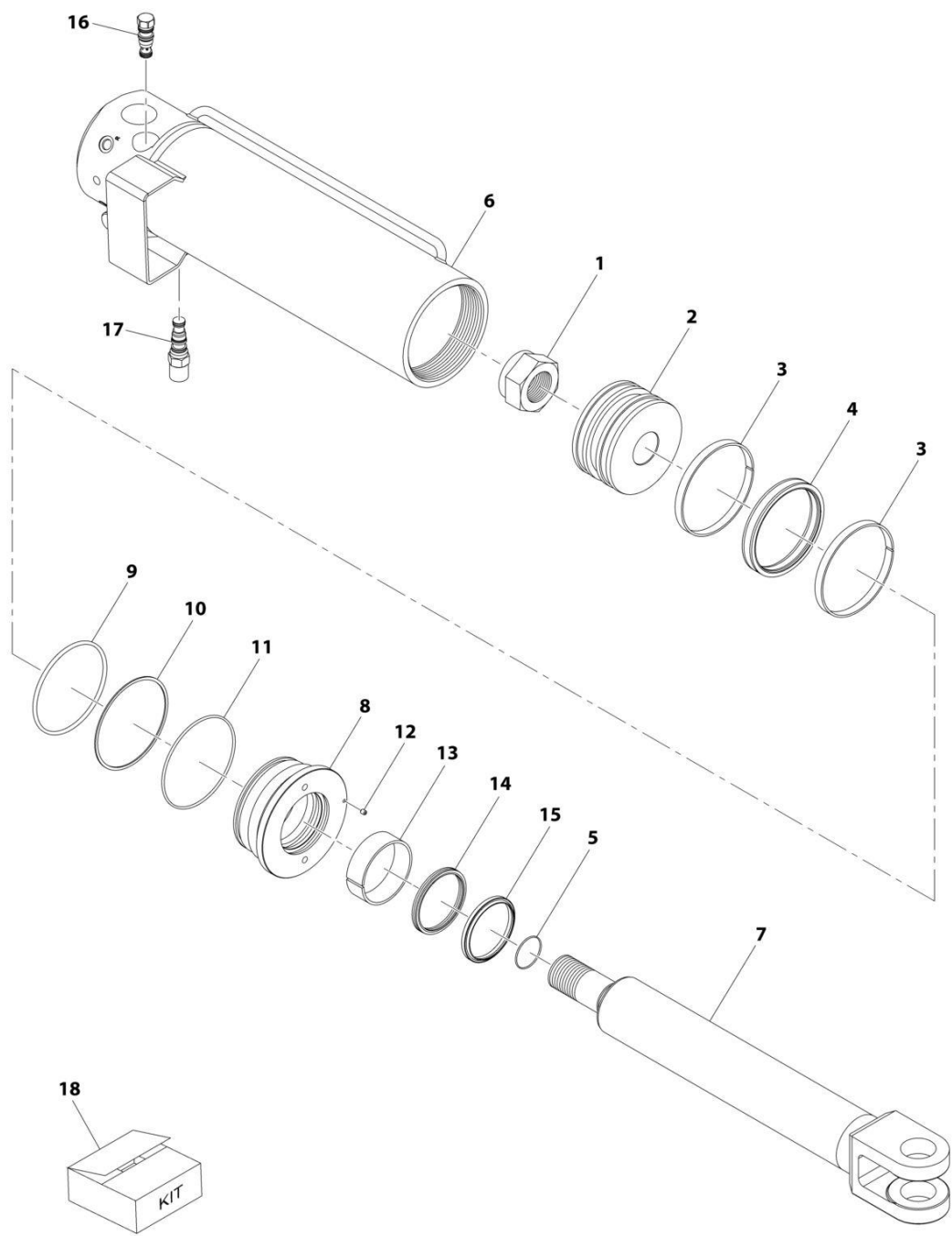
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. CYLINDER - FRAME LEVEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239181	Ref	Frame Level Cylinder	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70006285	1	Lock Nut	
2	N.S.S.	1	Wear Ring	
3	N.S.S.	1	Capped T-Seal	
4	70029883	1	Piston	
5	N.S.S.	1	O-Ring	
6	N.S.S.	1	Barrel Assembly	
7	70029884	1	Rod	
8	70029885	1	Rod Guide	
9	N.S.S.	1	O-Ring	
10	N.S.S.	1	Back-Up Ring	
11	N.S.S.	1	O-Ring	
12	70028161	1	Set Screw	
13	N.S.S.	1	Wear Ring	
14	N.S.S.	1	Z-Seal	
15	N.S.S.	1	Wiper	
16	70027693	2	Check Valve	
17	70029886	4	Plug	
18	70029887	1	Plug	
19	70029888	1	Seal Kit (Includes Items 2, 3, 5, 6, 9, 10, 11, 13, 14 & 15)	

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FIGURE 9-10. CYLINDER - OUTRIGGER



ART_1001239183-E

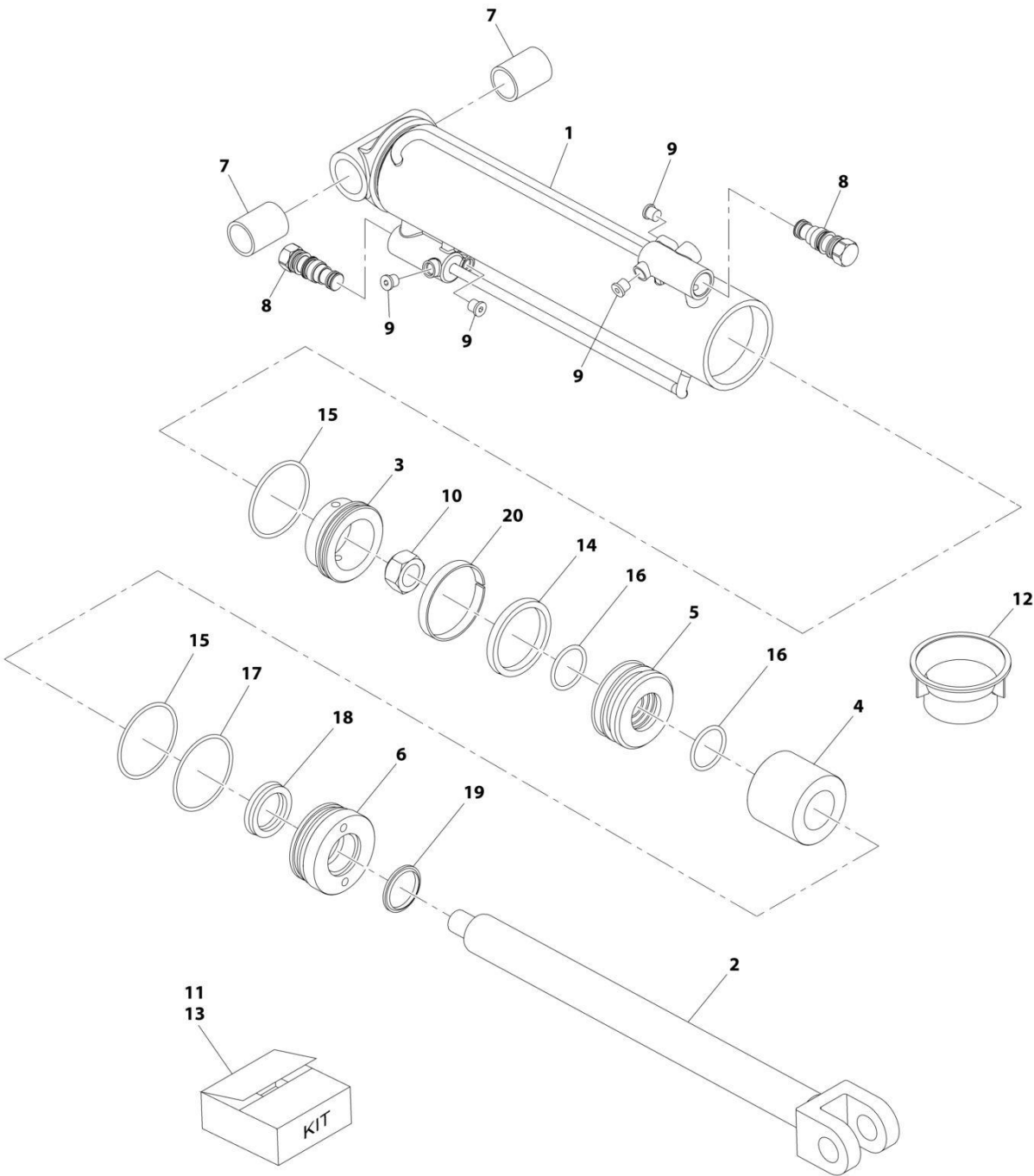
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-10. CYLINDER - OUTRIGGER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239183	Ref	Outrigger Cylinder	E
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70006285	1	Lock Nut	
2	70029896	1	Piston	
3	N.S.S.	2	Wear Ring	
4	N.S.S.	1	Capped T-Seal	
5	N.S.S.	1	O-Ring	
6	N.S.S.	1	Barrel Assembly	
7	70029897	1	Rod	
8	70029898	1	Rod Guide	
9	N.S.S.	1	O-Ring	
10	N.S.S.	1	Back-Up Ring	
11	N.S.S.	1	O-Ring	
12	70028161	1	Set Screw	
13	N.S.S.	1	Wear Ring	
14	N.S.S.	1	Z-Seal	
15	N.S.S.	1	Wiper	
16	4640438	1	Cartridge, Check Valve	
16	2900770	1	Seal Kit - 4640438 Valve	
17	8036732	1	Cartridge, Counterbalance Valve	
17	2900770	1	Seal Kit - 8036732 Valve	
18	70029974	1	Seal Kit (Includes Items 3 thru 6, 9, 10, 11, 13, 14 & 15)	

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FIGURE 9-11. CYLINDER - PIPE HANDLER



ART_70026587

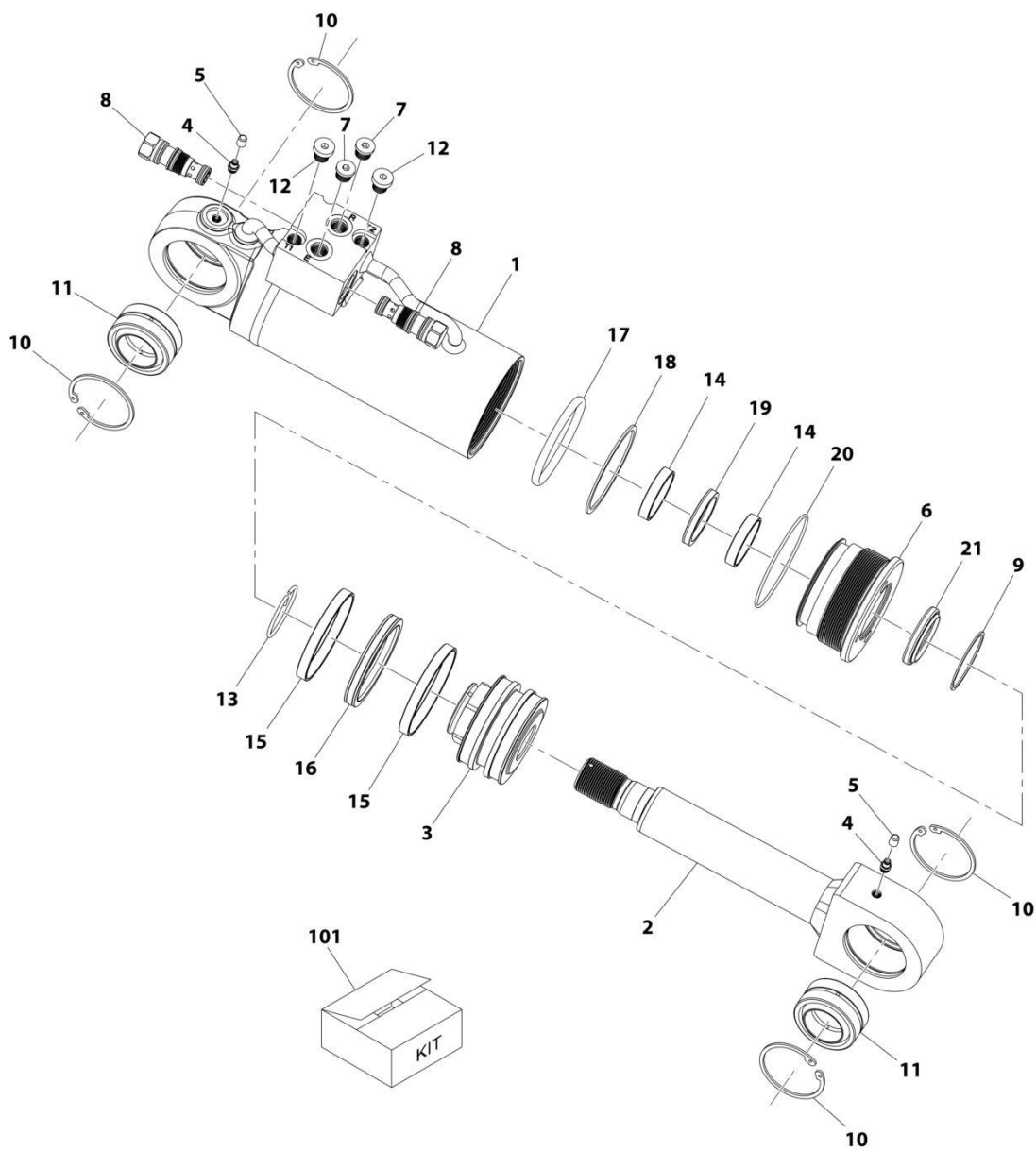
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-11. CYLINDER - PIPE HANDLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70026587	Ref	Pipe Handler Cylinder	
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70026495	1	Barrel	
2	70026610	1	Rod	
3	70026497	1	Spacer	
4	70026611	1	Spacer	
5	70026499	1	Piston	
6	70026500	1	Retainer	
7	70026501	2	Bushing	
8	70026502	2	Valve, Check	
9	70024129	4	Fitting, 4	
10	70026503	1	Nut	
11	70024734	1	Kit, Check Valve Service	
12	70026505	1	Seal Loader	
13	70026506	1	Seal Kit (includes items 14 thru 20)	
14	Kit	AR	Seal (Note: Use Item 13)	
15	Kit	AR	O-Ring (Note: Use Item 13)	
16	Kit	AR	O-Ring (Note: Use Item 13)	
17	Kit	AR	Ring, Back-up (Note: Use Item 13)	
18	Kit	AR	Seal (Note: Use Item 13)	
19	Kit	AR	Wiper (Note: Use Item 13)	
20	Kit	AR	Ring, Wear (Note: Use Item 13)	

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FIGURE 9-12. CYLINDER - SIDE TILT



ART_1001163414-A

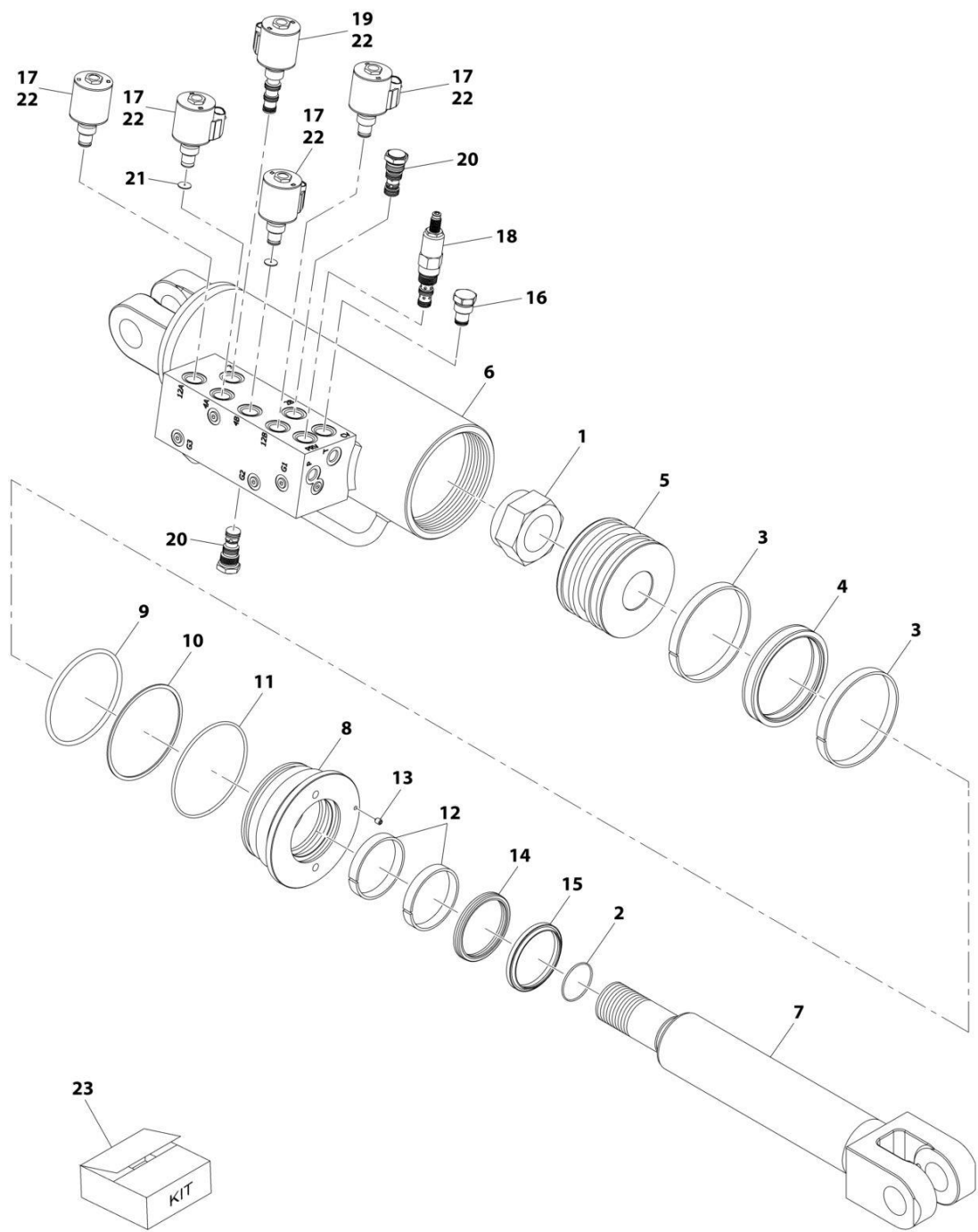
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-12. CYLINDER - SIDE TILT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163414	Ref	Side Tilt Cylinder	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70026056	1	Barrel	
2	70026057	1	Rod	
3	70026058	1	Piston	
4	70025606	2	Nipple, Grease	
5	70024020	2	Fitting, Grease	
6	70003849	1	Head	
7	70025959	2	Plug	
8	70026059	2	Valve, Check	
9	70002219	1	Ring, Retaining	
10	70026060	4	Ring, Retaining	
11	70026061	2	Bearing	
12	70024262	2	Plug	
13	70002224	1	Ring, Lock	
14	Kit	NSS	Ring, Rod Bearing (Note: Use Item 101)	
15	Kit	NSS	Ring, Piston Bearing (Note: Use Item 101)	
16	Kit	NSS	Seal, Piston (Note: Use Item 101)	
17	Kit	NSS	O-Ring (Note: Use Item 101)	
18	Kit	NSS	Ring, Back-Up (Note: Use Item 101)	
19	Kit	NSS	Seal, Rod (Note: Use Item 101)	
20	Kit	NSS	O-Ring (Note: Use Item 101)	
21	Kit	NSS	Seal, Wiper (Note: Use Item 101)	
101	70026062	1	Kit, Seal (includes items 14 thru 21)	

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FIGURE 9-13. CYLINDER - STABIL-TRAK



ART_1001239182-G

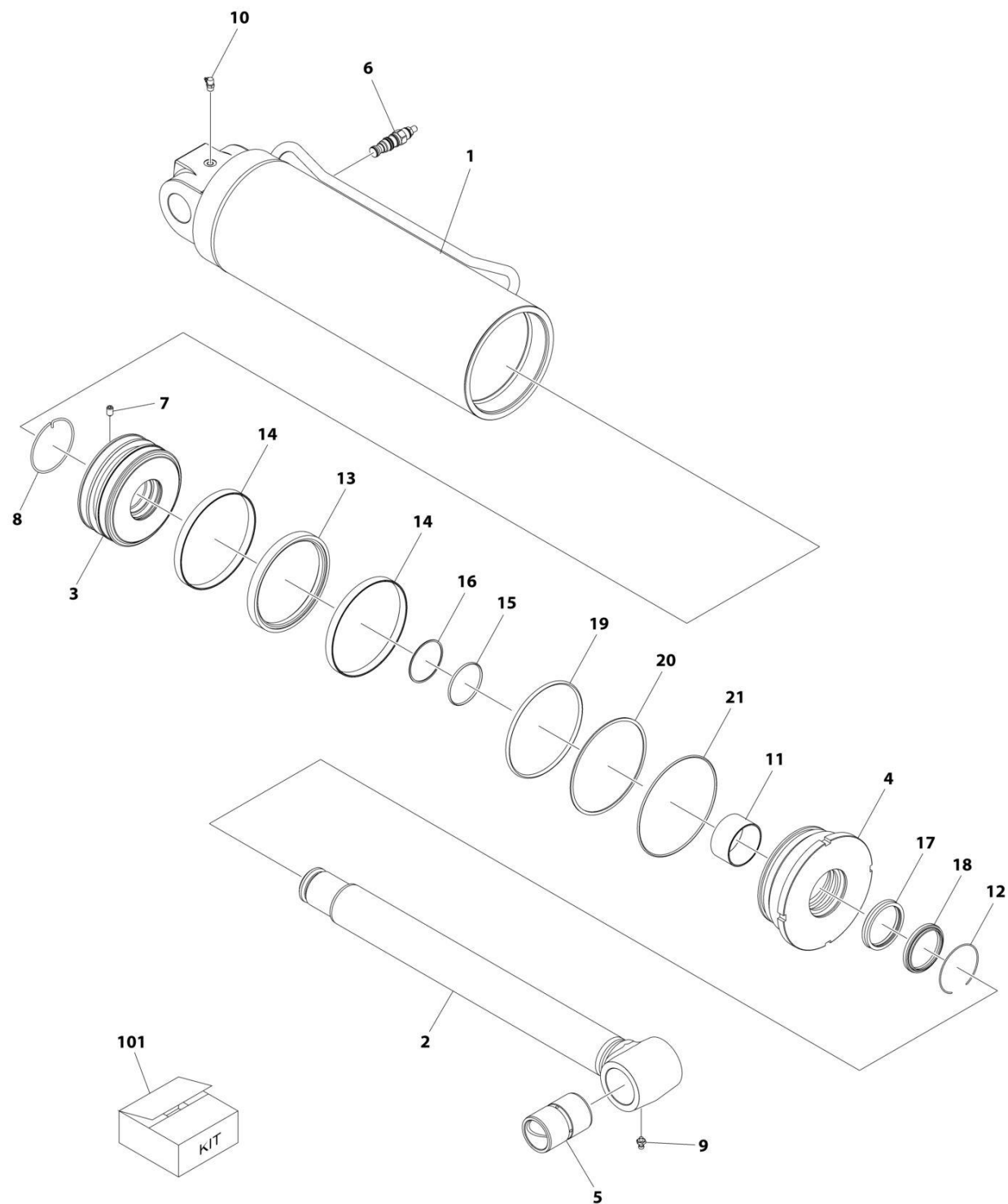
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. CYLINDER - STABIL-TRAK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239182	Ref	Stabil-Trak Cylinder	G
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70006285	1	Lock Nut	
2	N.S.S.	1	O-Ring	
3	N.S.S.	2	Wear Ring	
4	N.S.S.	1	Capped T-Seal	
5	70029893	1	Piston	
6	N.S.S.	1	Barrel Assembly	
7	70029894	1	Rod	
8	70029885	1	Rod Guide	
9	N.S.S.	1	O-Ring	
10	N.S.S.	1	Back-Up Ring	
11	N.S.S.	1	O-Ring	
12	N.S.S.	2	Wear Ring	
13	70028161	1	Set Screw	
14	N.S.S.	1	Z-Seal	
15	N.S.S.	1	Wiper	
16	8036582	1	Valve, Check	
17	8036581	4	Valve, Cartridge	
18	8035282	1	Pres Reducing Valve	
19	8036580	1	Valve, Cartridge	
19	7012903	1	Seal Kit - 8036580 Valve	
20	8035281	2	Valve, Pilot	
21	8035781	2	Orifice Disc	
22	7029246	5	Solenoid Coil	
23	70029895	1	Seal Kit (Includes Items 2, 3, 4, 9 thru 11, 14 & 15)	

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FIGURE 9-14. CYLINDER - TILT



ART_1001258911

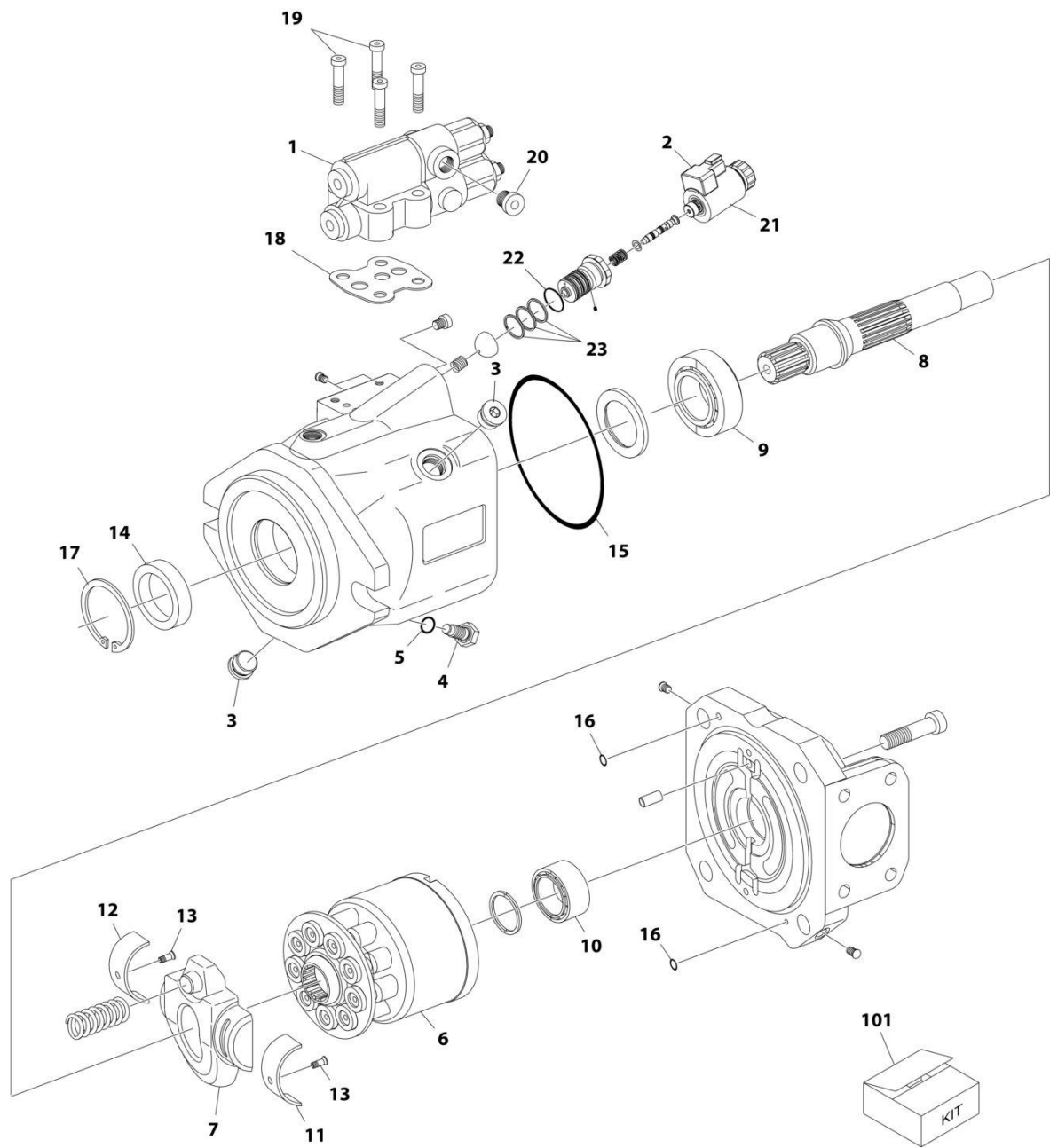
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. CYLINDER - TILT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001258911	Ref	Tilt Cylinder	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	N.S.S.	1	Barrel	
2	70029590	1	Rod	
3	70029567	1	Piston	
4	70029568	1	Head End Cover	
5	70029569	1	Bushing	
6	8035321	1	Counterbalance Valve	
6	8035327	1	Seal Kit, Cb Valve	
7	70029561	1	Set Screw	
8	70029570	1	Snap Ring	
9	8520013	1	Grease Nipple, Str	
10	8520021	1	Grease Nipple, 90 Deg	
11	70029571	1	Bushing	
12	70029572	1	Snap Ring	
13	N.S.S.	1	Piston Seal	
14	N.S.S.	2	Piston Bearing	
15	N.S.S.	1	O-Ring	
16	N.S.S.	1	Back-Up Ring	
17	N.S.S.	1	Rod Seal	
18	N.S.S.	1	Wiper	
19	N.S.S.	1	O-Ring	
20	N.S.S.	1	Back-Up Ring	
21	N.S.S.	1	O-Ring	
101	70029573	1	Seal Kit, (includes items 13 Thru 21)	

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FIGURE 9-15. PUMP - PISTON



ART_1001251423_C

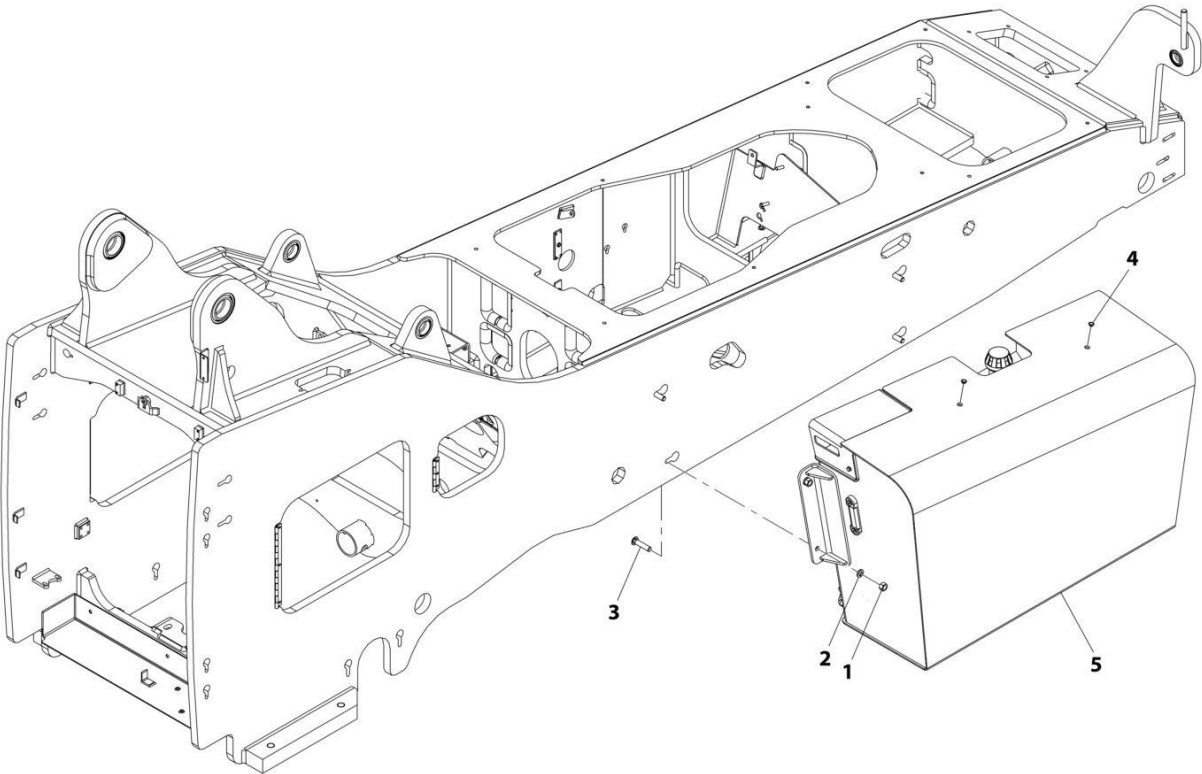
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. PUMP - PISTON

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251423	Ref	PISTON PUMP	C
1	70003738	1	Control Valve	
2	70024186	1	Control Valve	
3	70024407	2	Plug	
4	70024408	1	Stop Screw	
4	See Note	NSS	O-Ring (Note: Use Item 101)	
6	70024411	1	Rotary Group	
7	70024412	1	Swash Plate	
8	7024939	1	Drive Shaft	
9	7024943	1	Bearing	
10	7024944	1	Bearing	
11	70024414	1	Bearing-Liner	
12	70024415	1	Bearing-Liner	
13	7024953	2	Screw	
14	80634004	1	Shaft Seal	
15	See Note	NSS	O-Ring (Note: Use Item 101)	
16	See Note	NSS	Seal (Note: Use Item 101)	
17	80334277	1	Ring, Retaining	
18	70021867	1	Gasket	
19	7024954	4	Capscrew	
20	70024416	1	Plug	
21	70025897	1	Solenoid	
22	See Note	NSS	O-Ring (Note: Use Item 101)	
23	See Note	NSS	R-Ring (Note: Use Item 101)	
101	70024189	1	Seal Kit (Includes Items 5, 15,16,22 & 23)	

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FIGURE 9-16. TANK INSTALLATION (74HP ULS)



ART_1001242910-B

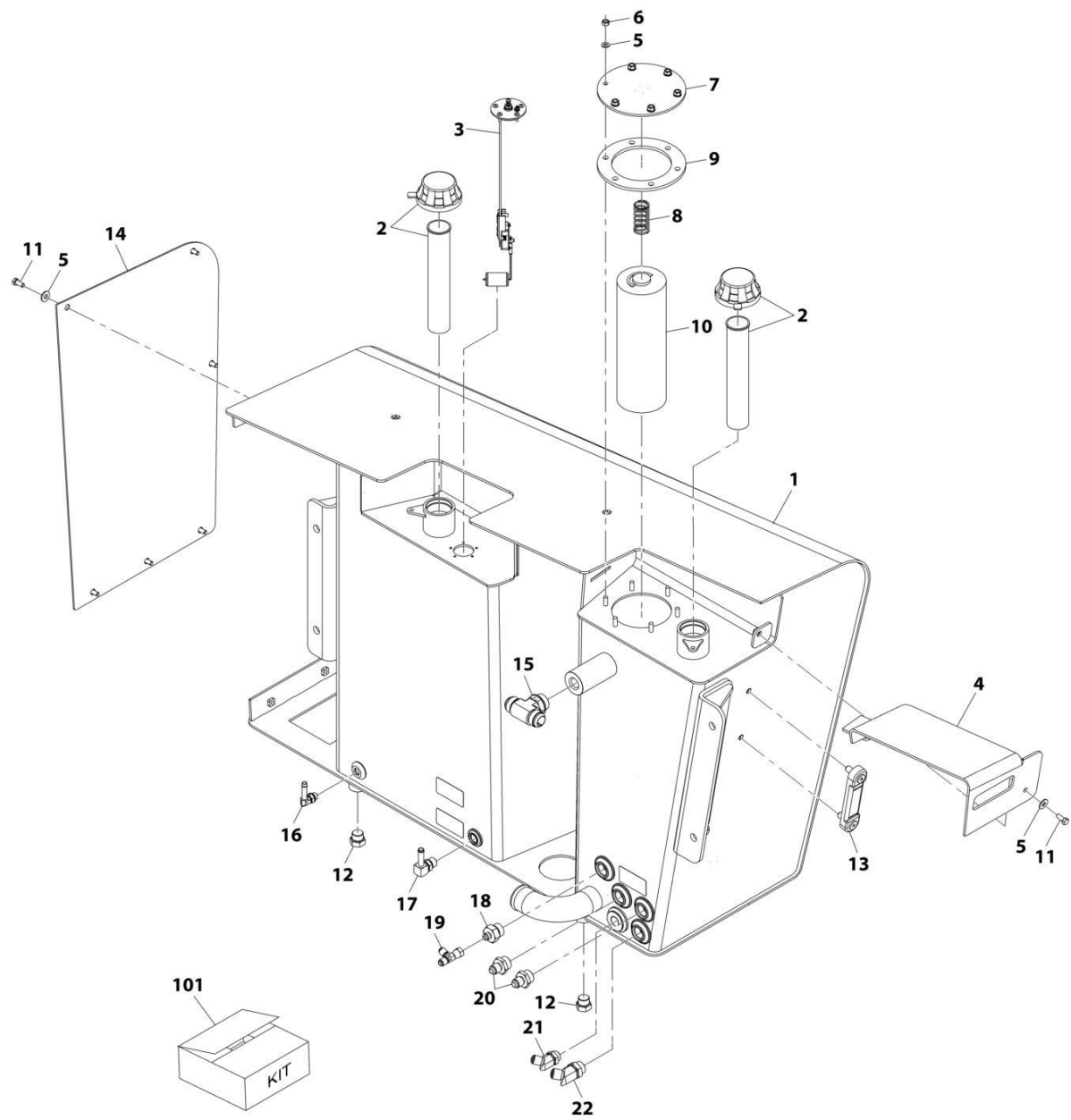
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. TANK INSTALLATION (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242910	Ref	Tank Installation (74HP)	B
1	8305014	4	Nut	
2	8307009	4	Washer	
3	88411148	4	Bolt	
4	1001195826	2	Plug	
5	1001227211	1	Tank Assembly (See Separate Breakdown in this Section)	

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FIGURE 9-17. TANK ASSEMBLY - HYDRAULIC FUEL (74HP ULS)



ART_1001227211

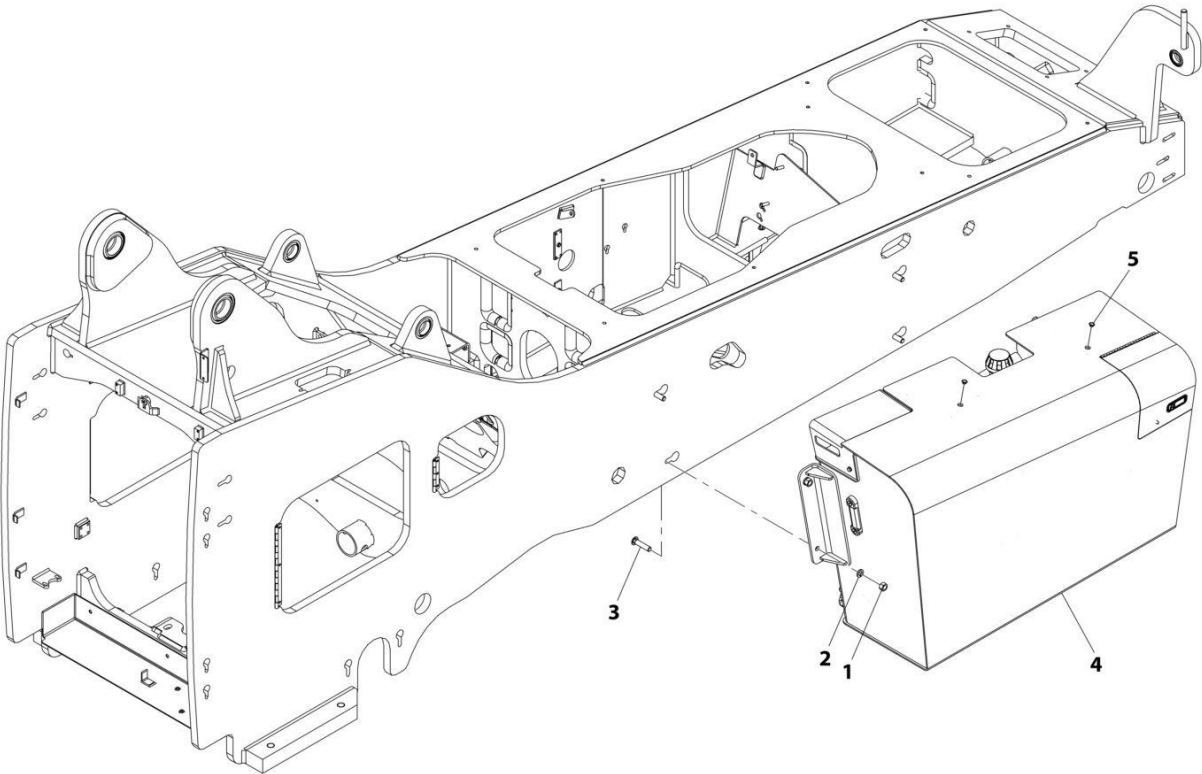
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-17. TANK ASSEMBLY - HYDRAULIC FUEL (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227211	Ref	Hydraulic/Fuel Tank Assembly (ULS)	B
1	N.S.S.	1	Tank, Hydraulic/Fuel	
2	7139077	2	Filler/Breather	
3	1001145026	1	Sensor, Fuel	
4	1001199116	1	Panel, Hydraulic Fill Cover	
5	1001170329	13	Washer, Flat M8	
6	3300429	6	Nut 5/16	
7	1001199135	1	Assembly, Cover	
8	1001199136	1	Spring	
9	1001199177	1	Seal	
10	1001199205	1	Element, Filter	
11	8303697	7	Bolt 5/16 X 3/4	
12	2220239	2	Plug	
13	7024441	1	Gauge, Sight	
14	1001199181	1	Cover, DEF Tank	
15	8760552	1	Tee, Branch	
16	1001178776	1	Elbow, 90	
17	1001199210	1	Elbow, 90	
18	2220577	1	Adapter	
19	2220635	1	Tee, Run	
20	2220375	2	Adapter	
21	2220499	1	Elbow, 45	
22	8770048	1	Elbow, 45	
101	70024152	1	Kit, Filter (Includes Items 9 & 10)	

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FIGURE 9-18. TANK INSTALLATION (130HP ULS)



ART_1001242755-B

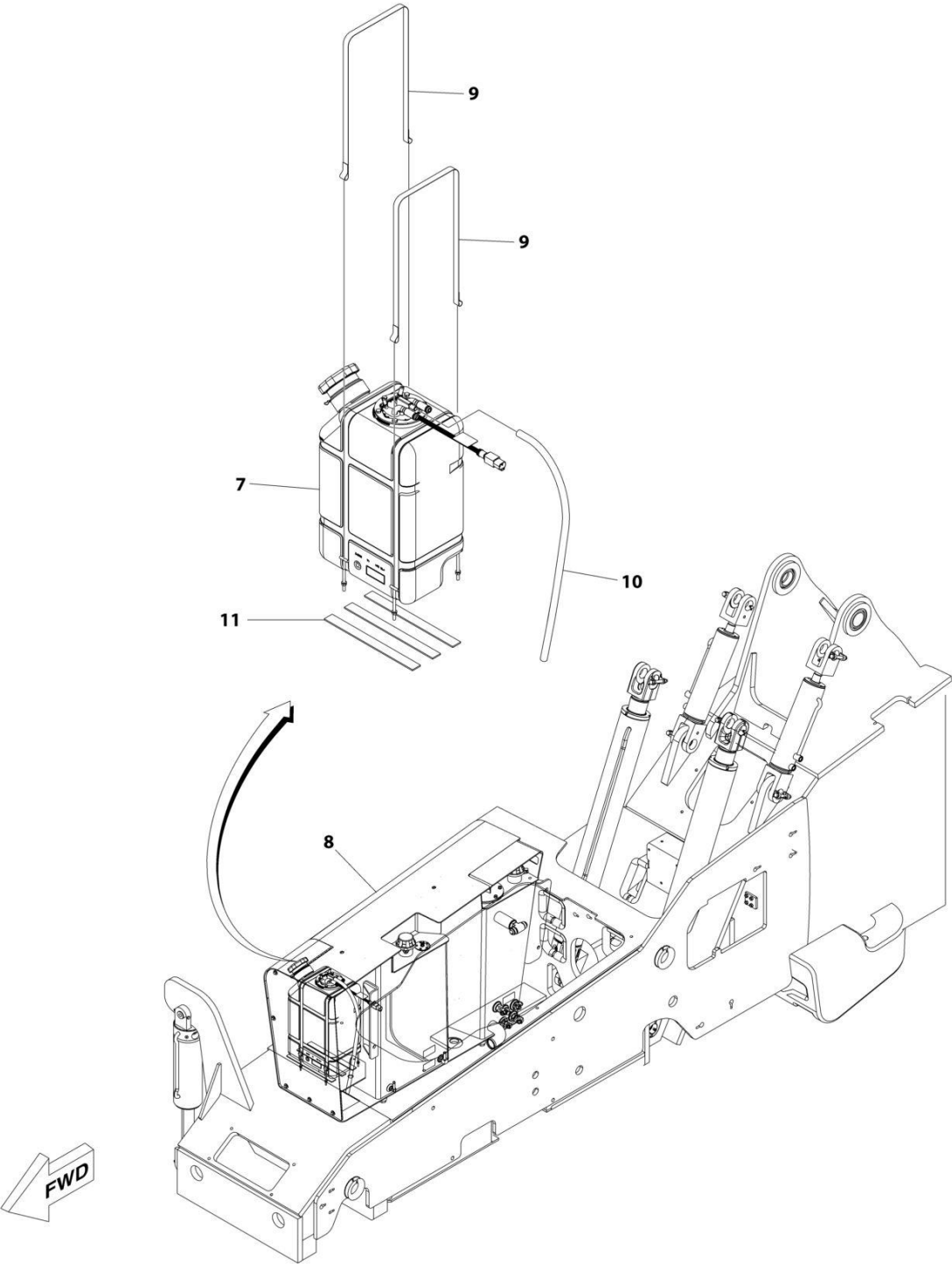
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FIGURE 9-18. TANK INSTALLATION (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242755	Ref	Tank Installation (ULS)	B
1	8305014	4	Nut	
2	8307009	4	Washer	
3	88411148	4	Bolt	
4	1001169329	1	Hydraulic/Fuel/DEF Tank Installation (See Separate breakdown in this Section)	
5	1001195826	2	Plug	

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FIGURE 9-19. TANK INSTALLATION - HYDRAULIC/FUEL/DEF (130HP ULS)



ART_1001169329_F

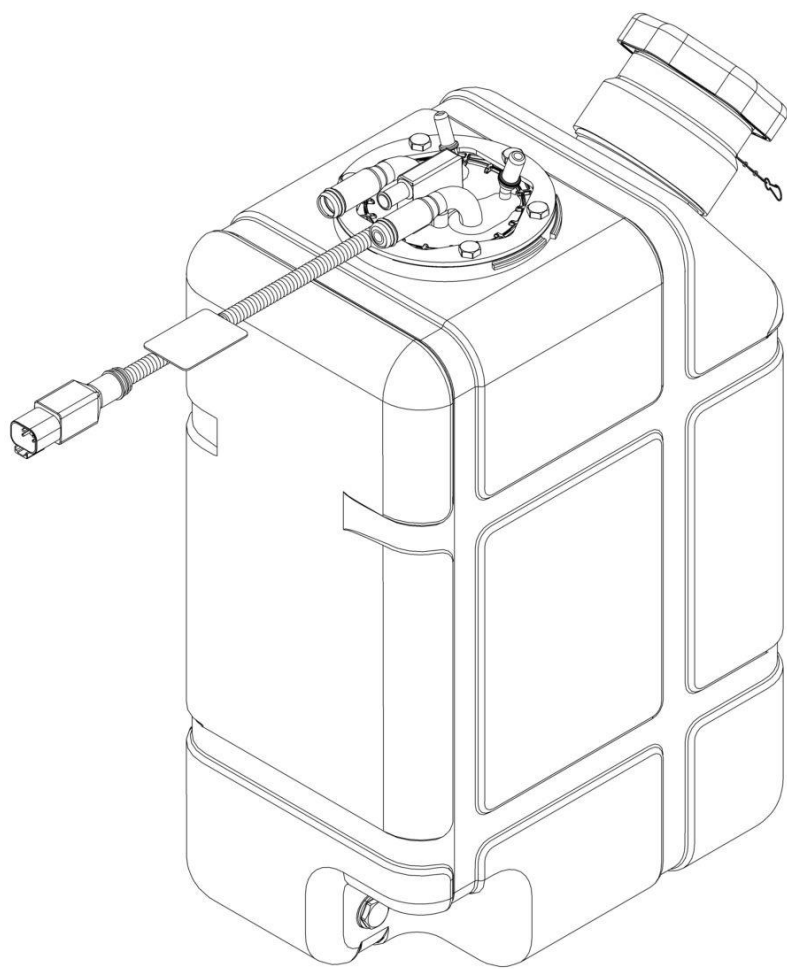
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-19. TANK INSTALLATION - HYDRAULIC/FUEL/DEF (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169329	Ref	TANK INSTALLATION - HYDRAULIC/FUEL/DEF	F
7	1001228986	1	DEF Tank (See Separate Breakdown in this Section)	
8	1001169466	1	Weldment, Fuel/Hydraulic Tank (See Separate Breakdown in this Section)	
9	1001170856	2	Strap, DEF Tank	
10	1001229095	1	Hose, DEF Tank Vent	
11	4420037	AR	Tape, Insulation	

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FIGURE 9-20. TANK - DEF TANK (130HP ULS)



ART_1001228986-A

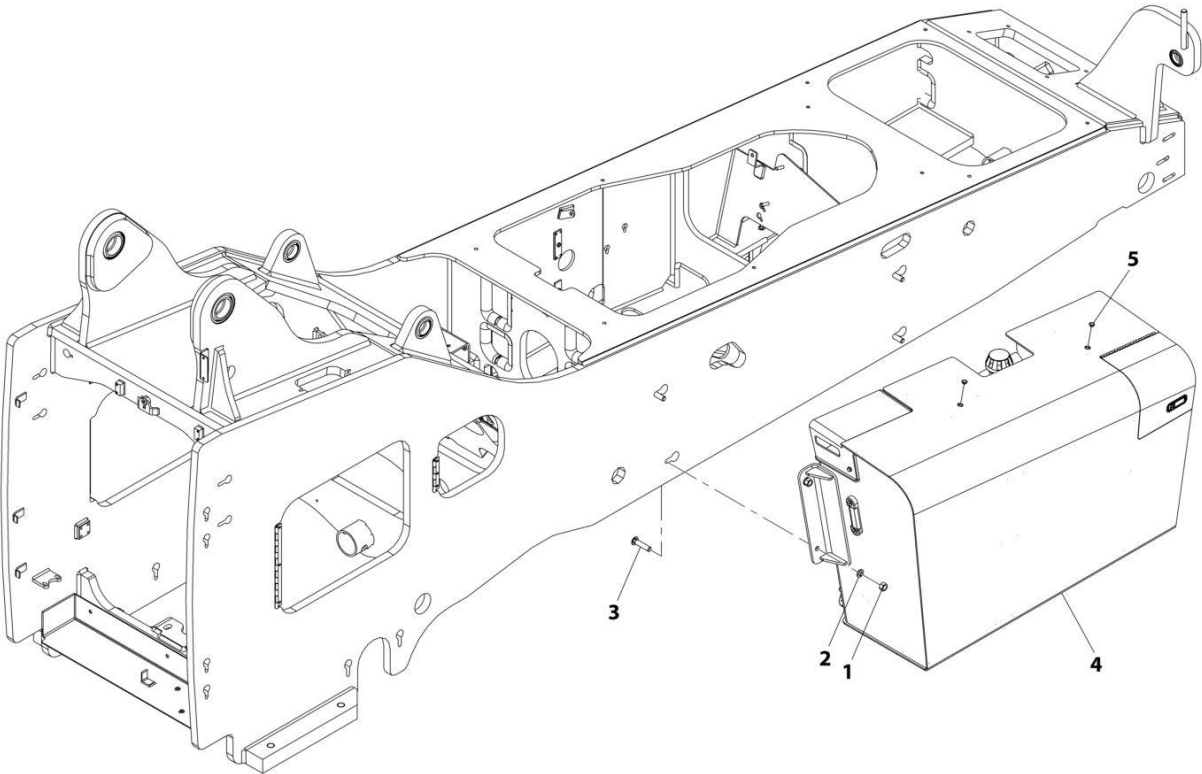
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-20. TANK - DEF TANK (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228986	1	DEF Tank Assembly, (Contact Cummins at 1-800-CUMMINS for all service if the DEF tank assembly is still within warranty. Warranty may be voided if service is conducted by anyone other than Cummins service personnel)	A

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FIGURE 9-21. TANK INSTALLATION (130HP LS)



ART_1001242909-B

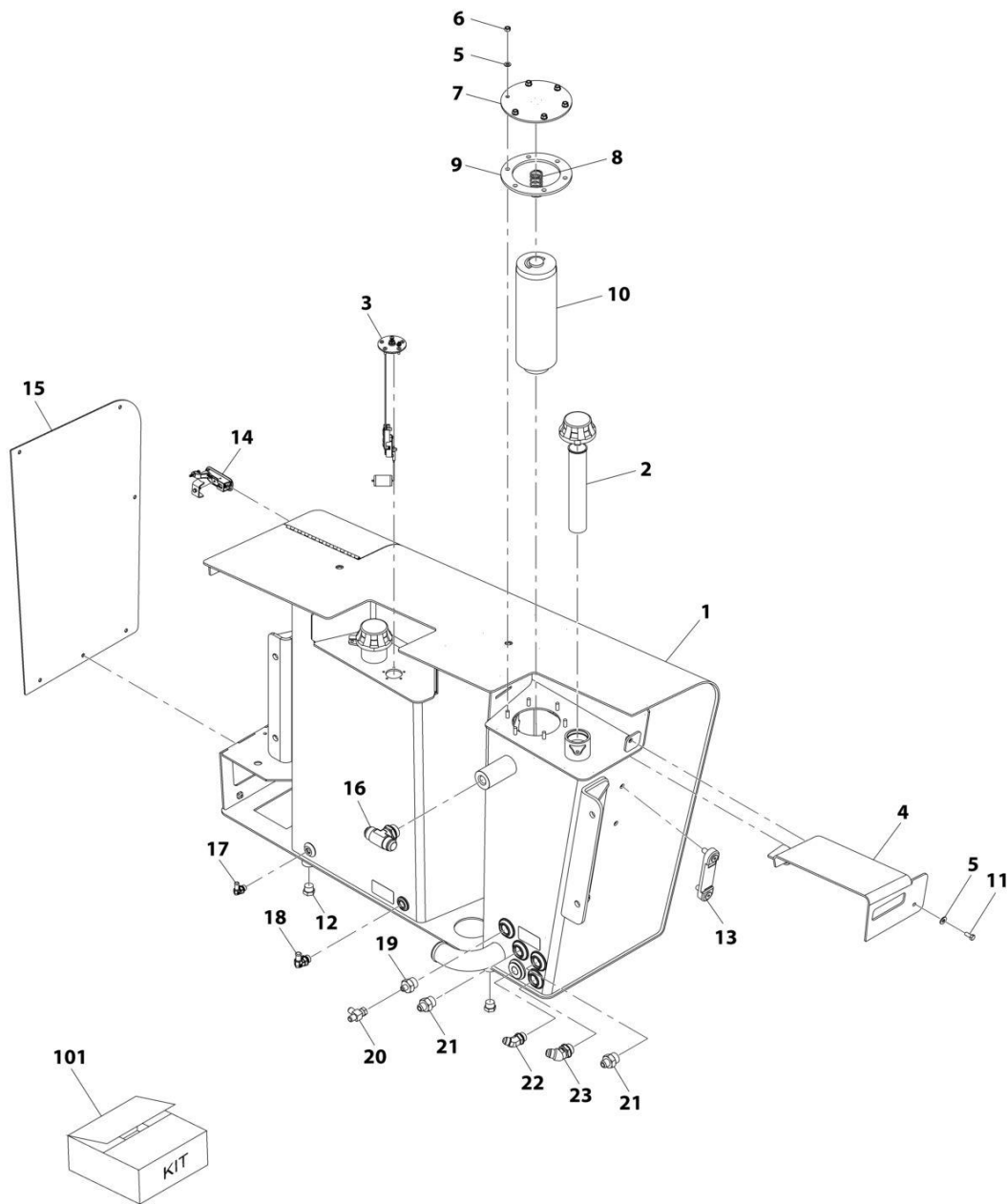
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-21. TANK INSTALLATION (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242909	Ref	Tank Installation (LS)	B
1	8305014	4	Nut	
2	8307009	4	Washer	
3	88411148	4	Bolt	
4	1001169466	1	Hydraulic/Fuel/DEF Tank Installation (See Separate Breakdown in this Section)	
5	1001195826	2	Plug	

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FIGURE 9-22. TANK ASSEMBLY - HYDRAULIC/FUEL/DEF (130HP LS)



ART_1001169466

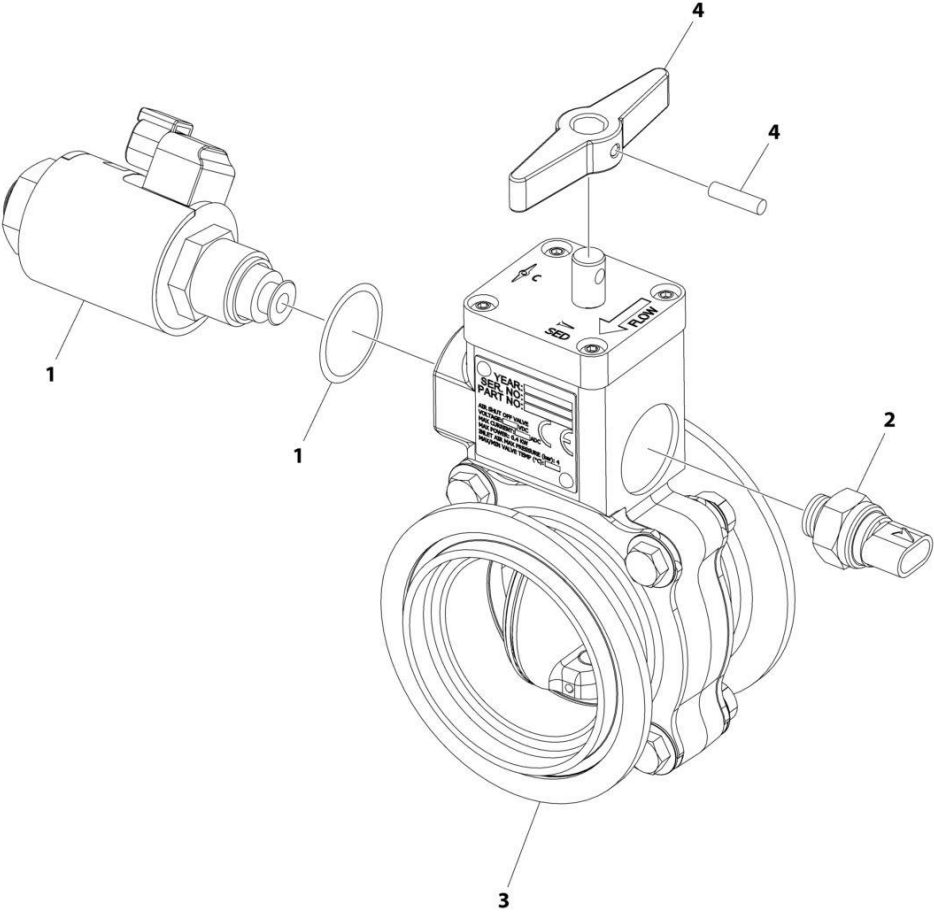
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-22. TANK ASSEMBLY - HYDRAULIC/FUEL/DEF (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169466	Ref	Hydraulic/Fuel/DEF Tank Assembly (LS)	M
1	N.S.S.	1	Weldment, Hydraulic/Fuel Tank	
2	7139077	2	Filler/Breather	
3	1001145026	1	Sensor, Fuel	
4	1001199116	1	Panel, Hydraulic Fill Cover	
5	1001170329	7	Washer, Flat M8	
6	3300429	6	Nut, Hex 31-18	
7	1001199135	1	Assembly, Cover	
8	1001199136	1	Spring	
9	1001199177	1	Seal	
10	1001199205	1	Element, Filter	
11	8303697	1	Bolt, Hex Hd 5/16-18X3/4	
12	2220239	2	Plug	
13	7024441	1	Gauge, Sight	
14	1001199199	1	Latch	
15	1001199181	1	Cover, DEF Tank	
16	8760552	1	Tee, Branch	
17	1001178776	1	Elbow, 90	
18	1001199210	1	Elbow, 90	
19	2220577	1	Adapter	
20	2220635	1	Tee, Run	
21	2220375	2	Adapter	
22	2220499	1	Elbow, 45	
23	8770048	1	Elbow, 45	
101	70024152	1	Kit, Filter (Includes Items 9 & 10)	

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FIGURE 9-23. VALVE - AIR SHUT OFF



ART_1001204032_C

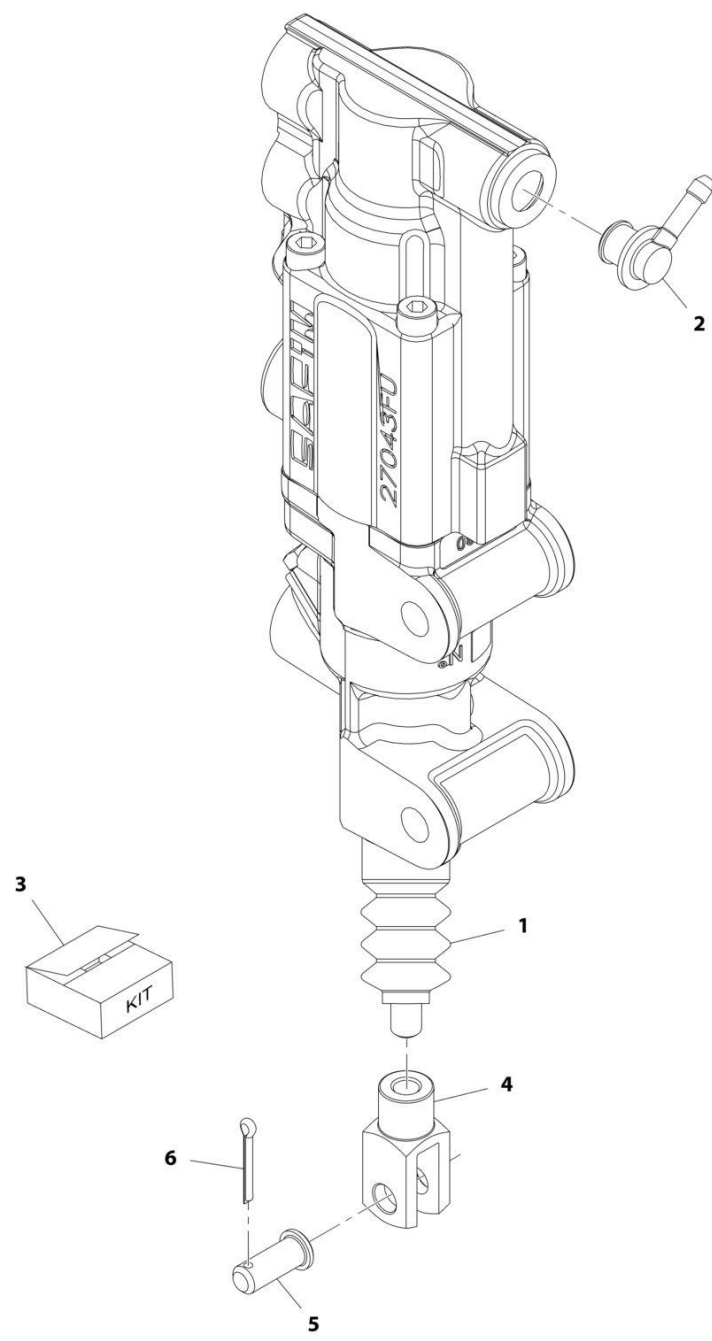
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-23. VALVE - AIR SHUT OFF

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001204032	Ref	Air Shut Off Valve	C
1	70028514	1	Kit, Solenoid 12V (Includes Solenoid, Coil, O-Ring)	
2	70028515	1	Kit, Switch (Includes Ball Switch & O-Ring)	
3	70028516	1	Kit, Flange and Hardware (Includes Flanges (Male & Female) & Mounting Hardware)	
4	70028517	1	Kit, Handle (Includes Handle & Pin)	

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FIGURE 9-24. VALVE - BRAKE



ART_1001201721-D

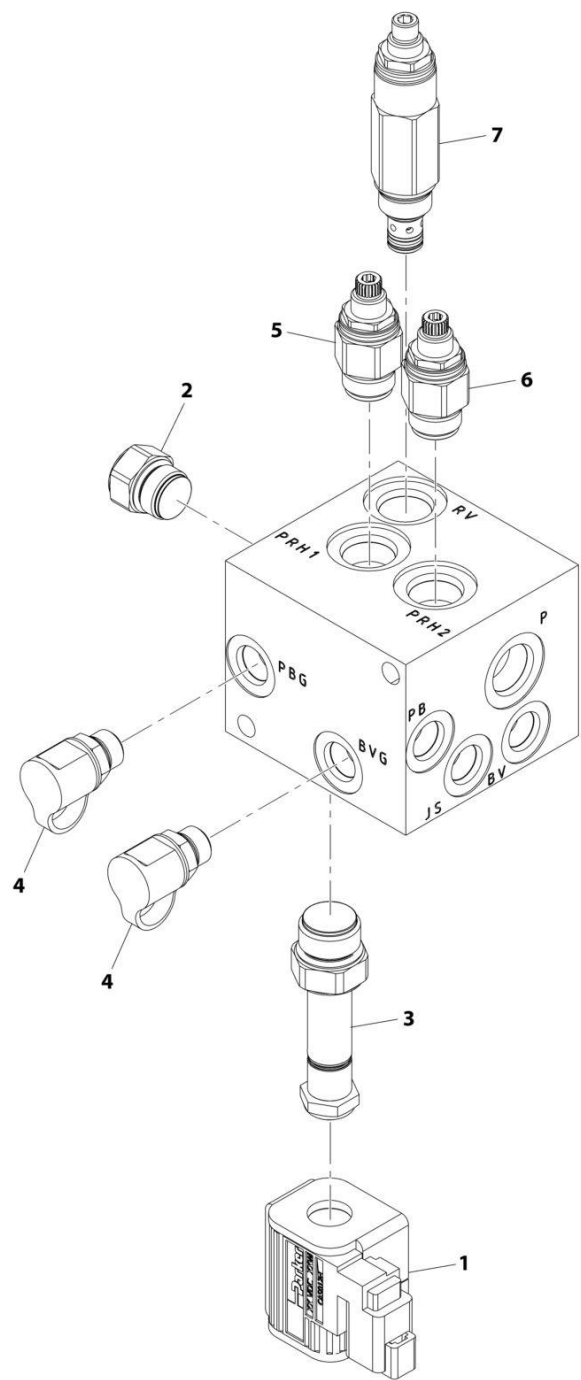
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-24. VALVE - BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001201721	Ref	Brake Valve	D
1	70025859	1	Dust Cover	
2	70027275	1	Reservoir Joint	
3	70027276	1	Seal Kit	
4	70022650	1	Yoke	
5	70020743	1	Pin, Yoke	
6	70020745	1	Pin, Cotter	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-25. VALVE - FRAME SECONDARY CONTROL



ART_1001247045-C

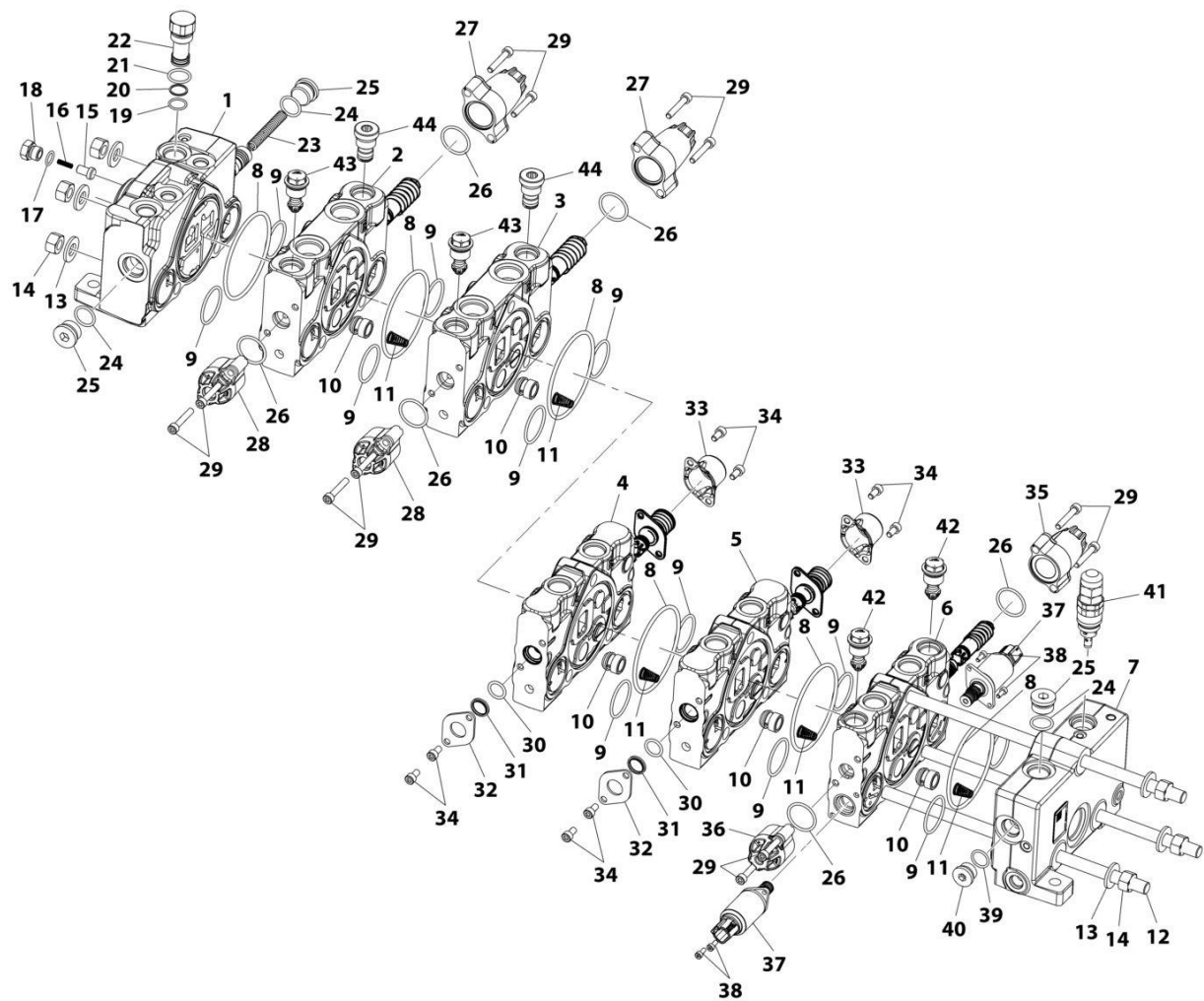
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-25. VALVE - FRAME SECONDARY CONTROL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247045	Ref	Secondary Control Valve	C
1	70026085	1	Coil	
2	70029821	1	Check Valve	
	7010769	1	Seal Kit	
3	70026087	1	Valve, Solenoid	
	8032695	1	Seal Kit	
4	See Note	NSS	Fitting (Note: Purchase Complete Assembly)	
6	70029584	2	Valve, Pressure Relief	
	8032694	1	Seal Kit	
7	70029523	1	Valve Assembly	
	70029522	1	Seal Kit	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-26. VALVE - MAIN CONTROL



ART_1001242925

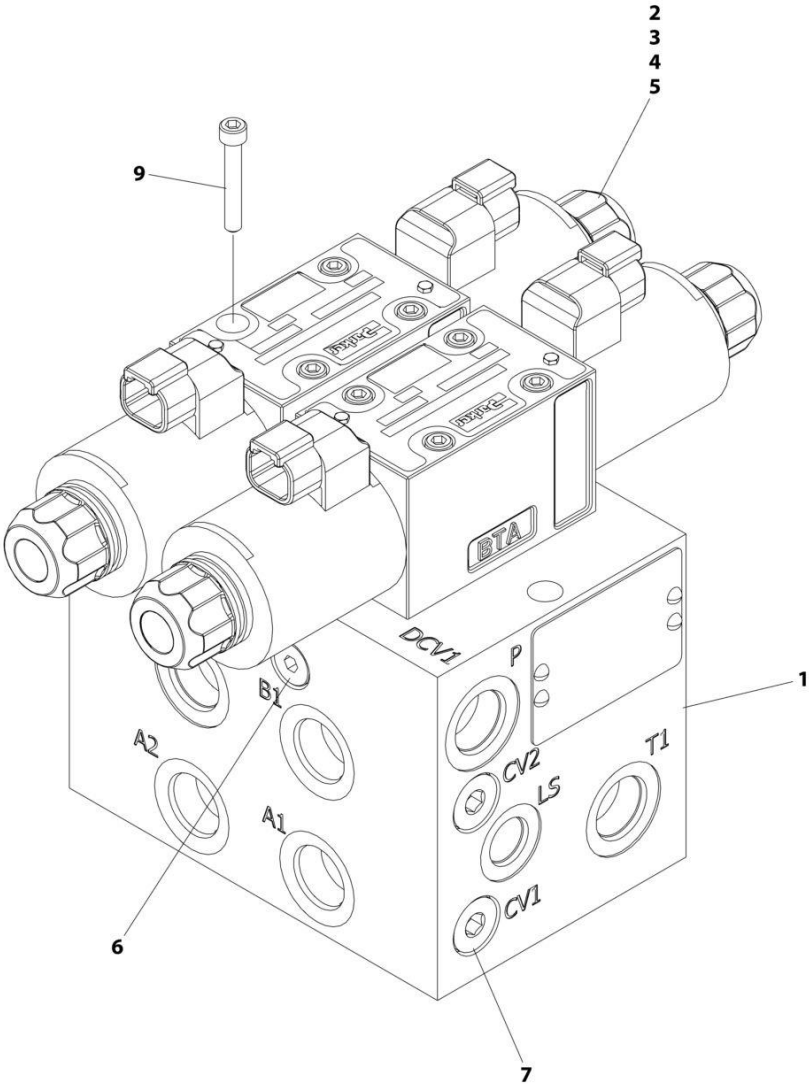
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-26. VALVE - MAIN CONTROL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242925	Ref	MAIN CONTROL VALVE	F
1	70030023	1	Inlet Section Assembly	
2	70030001	1	Lift Section Assembly	
3	70030002	1	Extend/Retract Section Assembly	
4	70030003	1	Aux Section Assembly	
5	70030004	1	Sway Section Assembly	
6	70030005	1	Tilt Section Assembly	
7	70030006	1	Outlet Section Assembly	
8	8034697	6	O-Ring	
9	70030007	12	O-Ring	
10	8903015	5	Poppet CV	
11	70030012	5	Spring	
12	70030038	3	Tie Rod	
13	70030039	6	Washer	
14	8035347	6	Nut	
15	70030009	1	Poppet, CV	
16	70030010	1	Spring	
17	70030040	1	O-Ring	
18	70030011	1	Plug	
19	70026370	1	O-Ring	
20	70026376	1	Back-Up Ring	
21	10837928	1	O-Ring	
22	70030041	1	Drain Regulator Assembly	
23	70030008	1	Spring	
24	70026652	3	O-Ring	
25	70026653	3	Plug	
26	70030013	6	O-Ring	
27	70030015	2	Spool Cap	
28	70030014	2	Spool Cap	
29	70030016	12	Screw	
30	8037109	2	O-Ring	
31	70030018	2	Wiper	
32	70030017	2	Sealing Plate	
33	70030019	2	Cap Spool	
34	70026133	8	Screw	
35	70030021	1	Spool Cap	
36	70030020	1	Spool Cap	
37	70029874	2	Valve, Solenoid Cartridge	
38	70022014	4	Screw	
39	70024202	1	O-Ring	
40	8035382	1	Plug Assembly	
41	70030022	1	Valve Assembly, LS Relief	
42	70027134	2	Valve Assembly, Relief	
43	70025982	2	Valve Assembly, Relief	
44	70022008	2	Shut-Off Plug Assembly	

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FIGURE 9-27. VALVE - OUTRIGGER



ART_1001247857

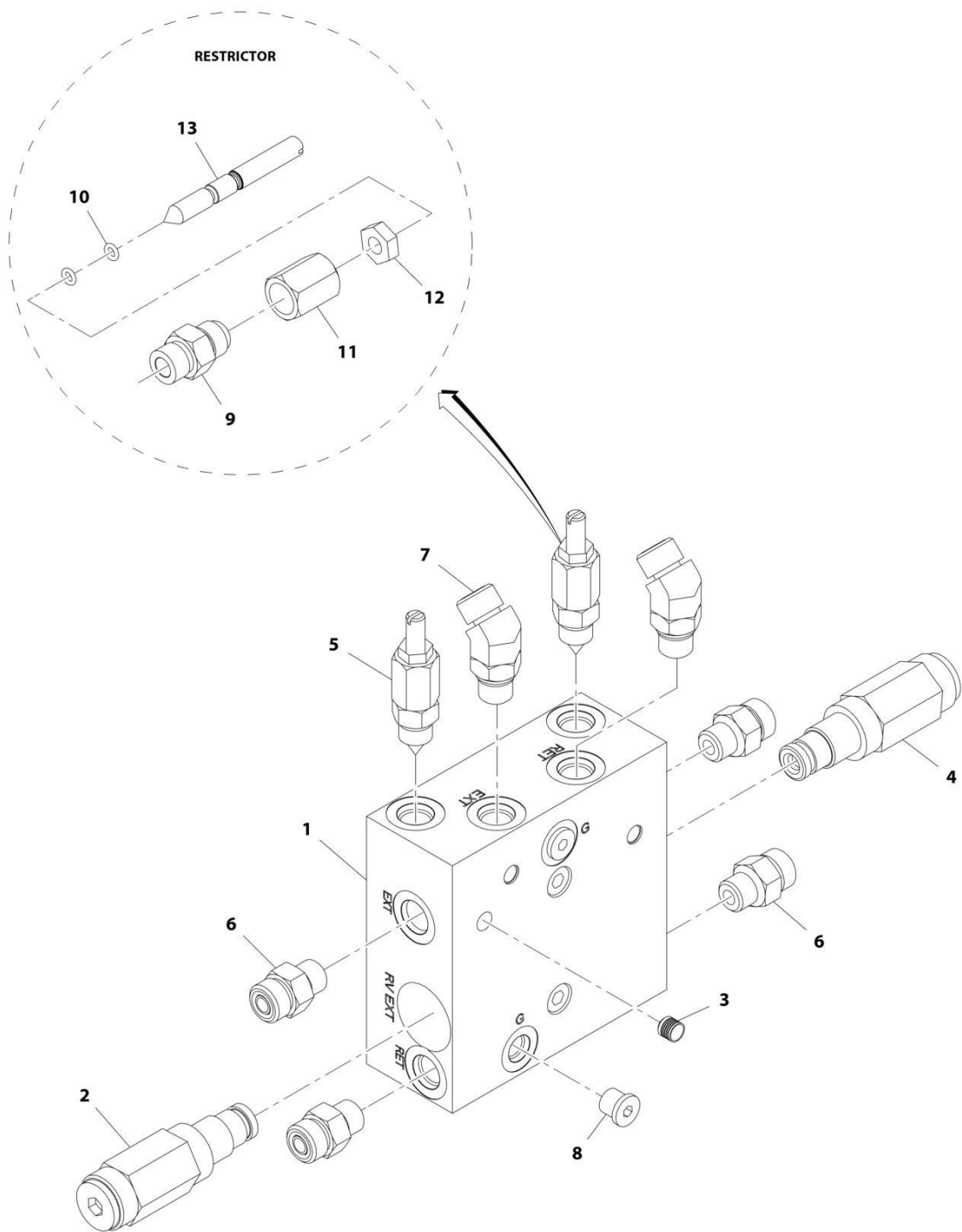
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-27. VALVE - OUTRIGGER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247857	Ref	OUTRIGGER VALVE	A
1	See Note	NSS	Manifold	
2	70026564	2	Directional Control Valve	
3	70023506	4	Ball Bearing	
4	70023507	4	Spring	
5	70023508	4	Retainer	
6	2220883	5	Plug #4	
7	2220885	6	Plug #6	
8	91474028	2	Expander Plug (Not Shown)	
9	70029798	8	Capscrew	

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FIGURE 9-28. VALVE - PIPE GRAPPLE



ART_70026589

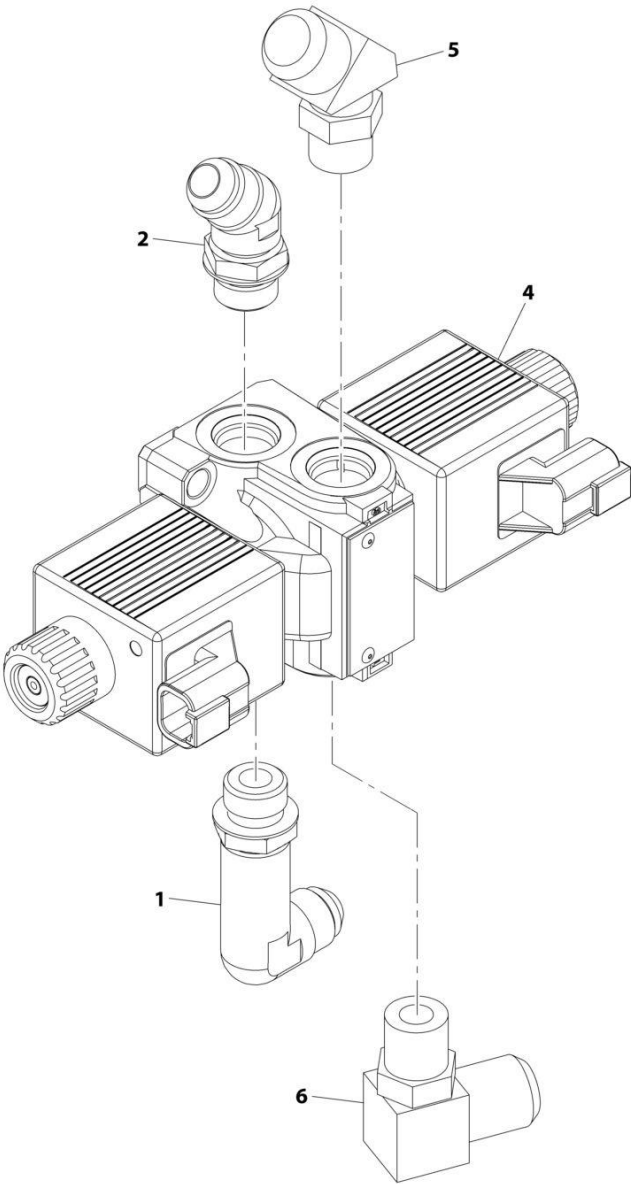
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-28. VALVE - PIPE GRAPPLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70026589	Ref	Valve Assembly	
1	70026612	NLA	Manifold (Purchase Complete Assembly)	
2	70026613	1	Cartridge	
3	70026614	4	Plug	
4	70026478	1	Cartridge	
5	70026615	2	Restrictor	
6	70024130	4	Fitting	
7	70026616	2	Fitting	
8	70024129	2	Plug	
9	70026617	1	Fitting	
10	70026618	2	O-Ring	
11	70026619	1	Cap	
12	70026620	1	Jam Nut	
13	70026621	1	Plunger	

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FIGURE 9-29. VALVE AND FITTING SUB-ASSEMBLY - STEERING SELECT



ART_1001172784-F

SECTION 9 - HYDRAULIC COMPONENTS

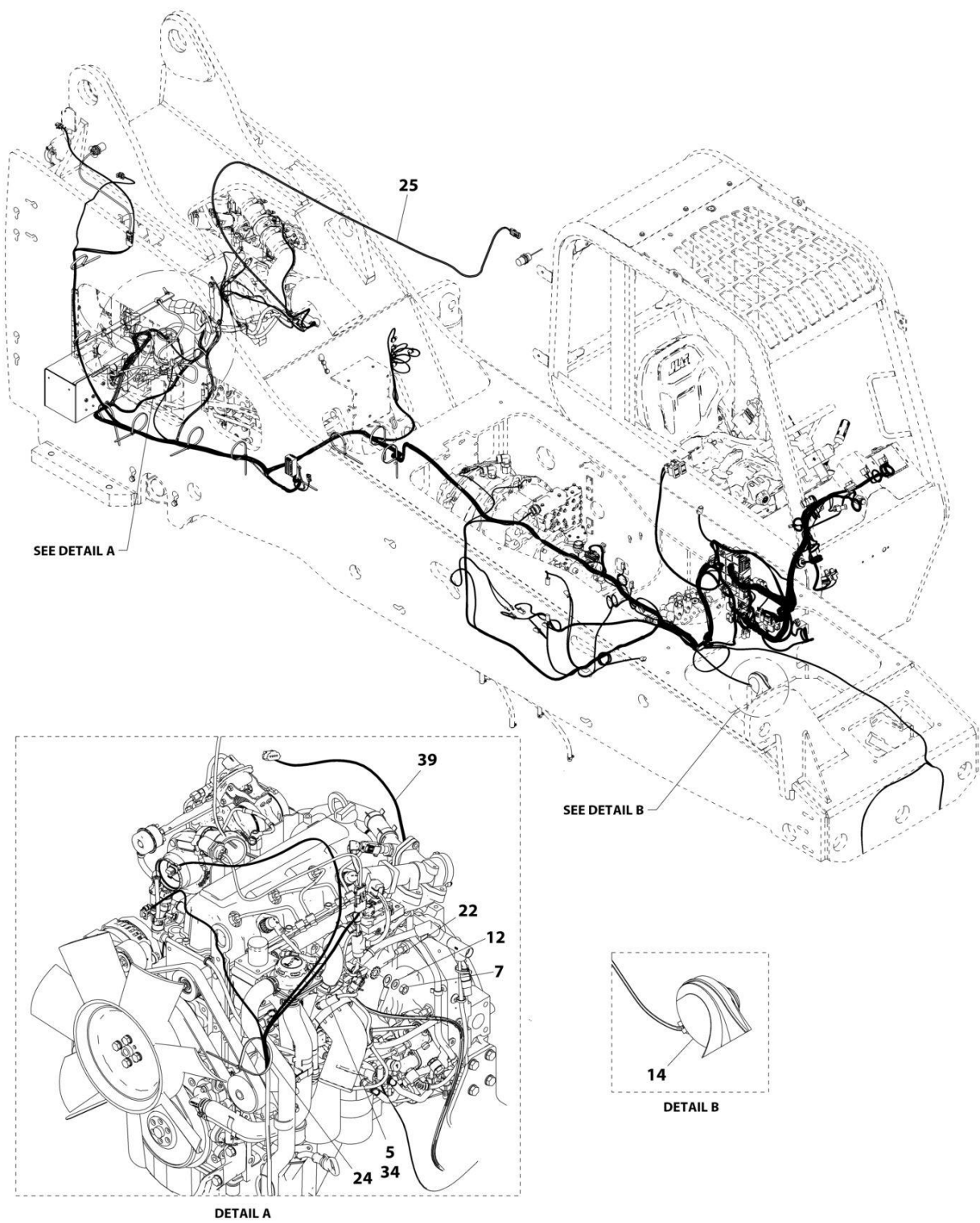
FIGURE 9-29. VALVE AND FITTING SUB-ASSEMBLY - STEERING SELECT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172784	Ref	Steer Select Valve Assembly	F
1	2220474	1	Adapter, Long 90	
2	2220500	1	Adapter, 45	
4	1001153748	1	Valve, Steer Select	
4	70020867	2	Coil Nut/Seal Kit	
4	70026582	2	Coil	
5	2220950	1	Adapter, 45	
6	2221042	1	Adapter, 90	

SECTION 10 - ELECTRICAL

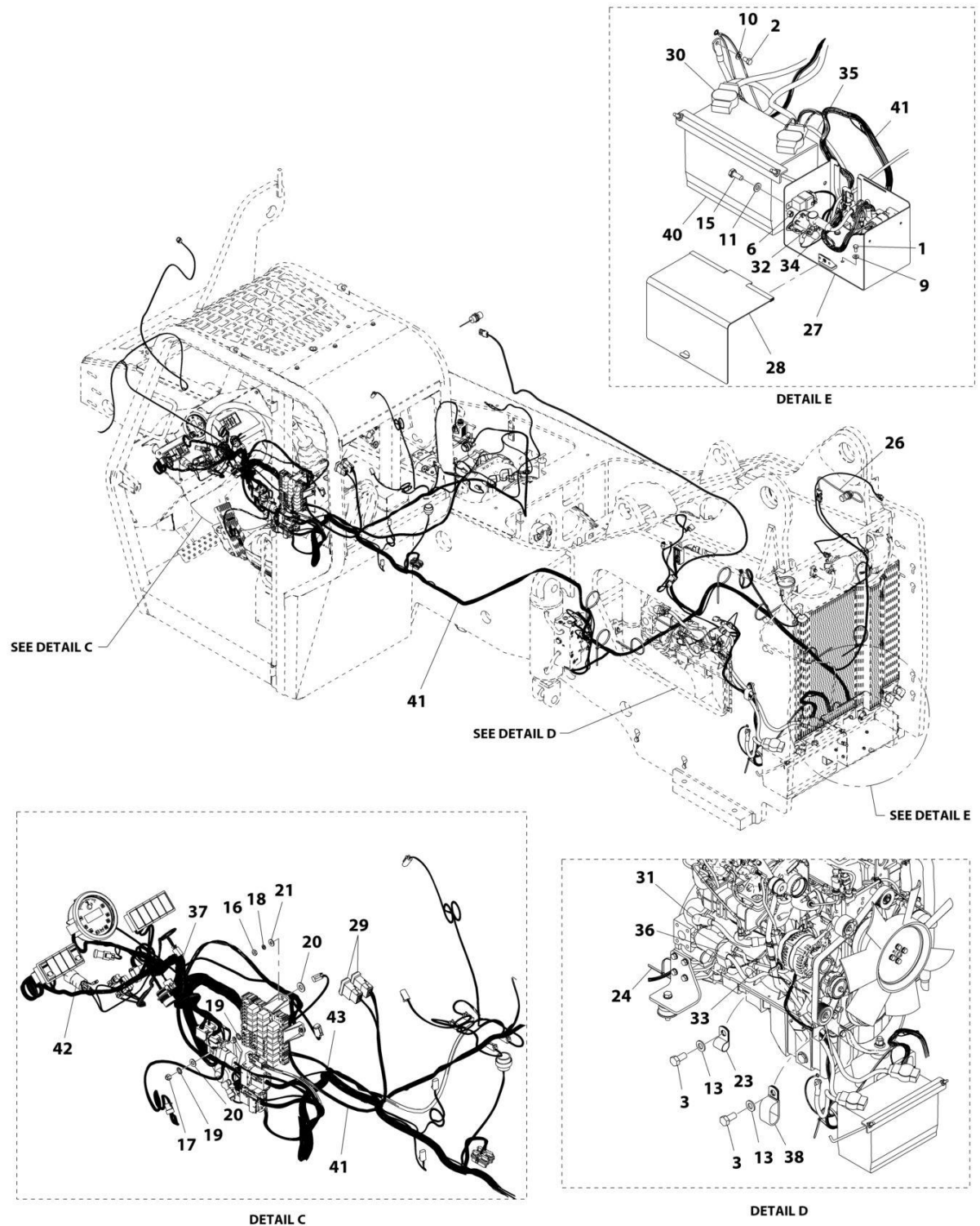
SECTION 10 - ELECTRICAL

FIGURE 10-1. ELECTRICAL INSTALLATION (74HP ULS)



ART_1001252321_1-B

SECTION 10 - ELECTRICAL



ART_1001252321_2-B

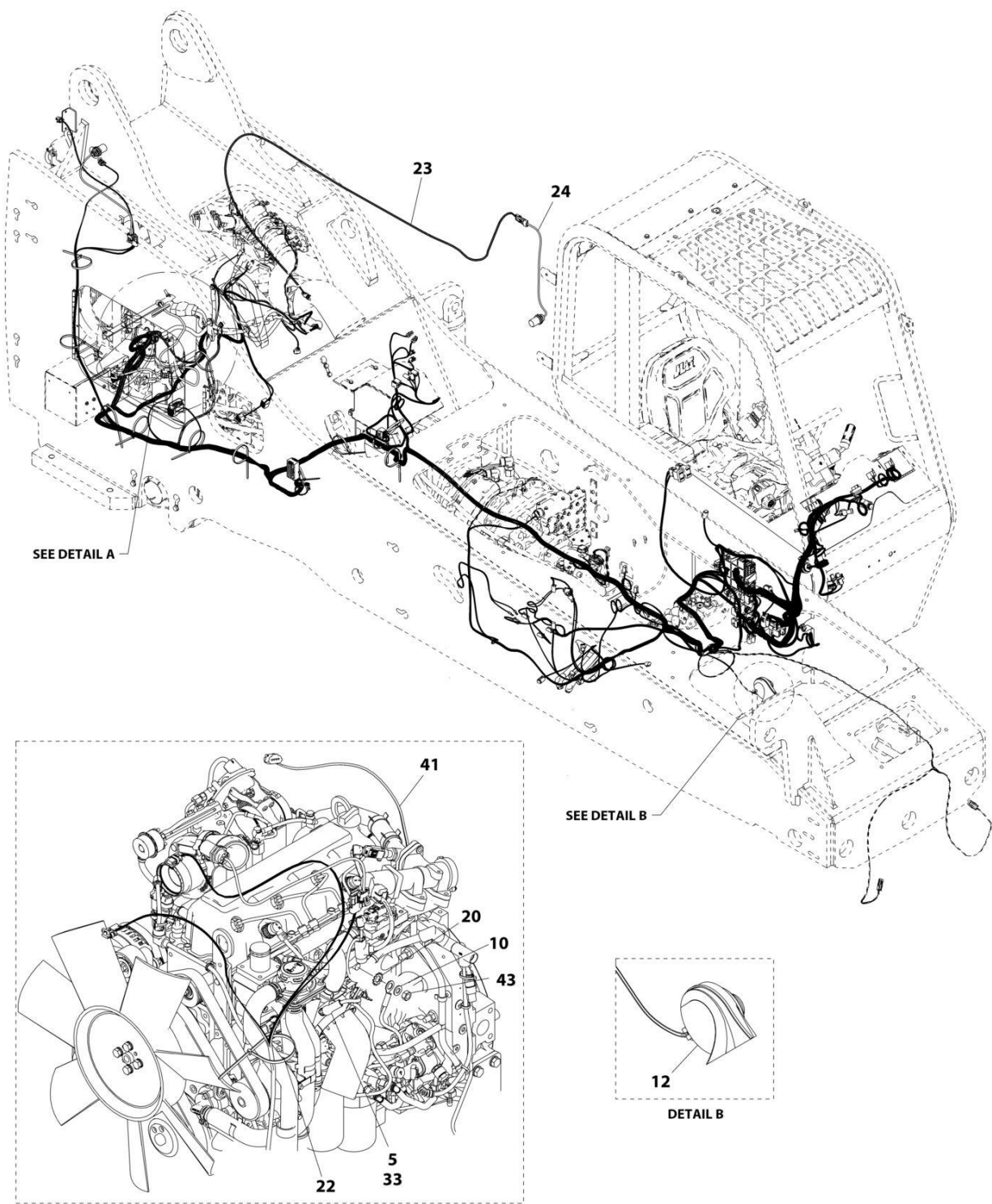
SECTION 10 - ELECTRICAL

FIGURE 10-1. ELECTRICAL INSTALLATION (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001252321	Ref	Electrical Installation (74HP) (ULS)	B
1	0641404	3	Bolt 1/4X1/2	
2	0641605	1	Bolt 3/8X5/8	
3	0761212	2	Bolt M12X25	
5	3290601	1	Nut M6	
6	3290605	1	Nut M6	
7	3290801	1	Nut M8	
9	4711400	3	Washer 1/4	
10	4711600	1	Washer 3/8	
11	4811702	1	Washer M6	
12	4811900	1	Washer, M8	
13	4812100	2	Washer M12	
14	8270620	1	Horn, Signal	
15	8303545	1	Bolt M6X14	
16	8305002	4	Nut #10	
17	8305624	2	Nut 1/4	
18	8307003	4	Washer M10	
19	8307027	4	Washer 5/16	
20	8307106	6	Washer 5/16	
21	8307111	4	Washer M10	
22	8310046	1	Washer M10	
23	8406105	1	Clip, Tube	
24	8584001	13	Wrap, Tie	
25	1001127226	1	Harness, Boom Extend (See Separate Breakdown in this Section)	
26	1001130307	2	Sensor, Boom	
27	1001170233	1	Installation, Relay Panel (See Separate Breakdown in this Section)	
28	1001170234	1	Assembly, Relay Panel Cover (See Separate Breakdown in this Section)	
29	1001170269	2	Switch, Outtrigger	
30	1001171234	1	Cable, Battery Negative	
31	1001171236	1	Cable, Starter Ground	
32	1001171237	1	Cable, Grid Heater to Fuse Power	
33	1001171238	1	Cable, Alternator Power	
34	1001171239	1	Cable, Grid Heater Power	
35	1001171633	1	Cable, Buss Power	
36	1001171757	1	Cable, Starter Power	
37	1001178285	1	Harness, Cab Power Distribution (See Separate Breakdown in this Section)	
38	1001181899	1	Clamp	
39	1001184835	1	Harness, TBAP (See Separate Breakdown in this Section)	
40	1001186841	1	Installation, Battery (See Separate Breakdown in this Section)	
41	1001199889	1	Engine Harness (See Separate Breakdown in this Section)	
42	1001250700	1	Switch, Pressure	
43	1001251503	1	Harness, Logic (See Separate Breakdown in this Section)	

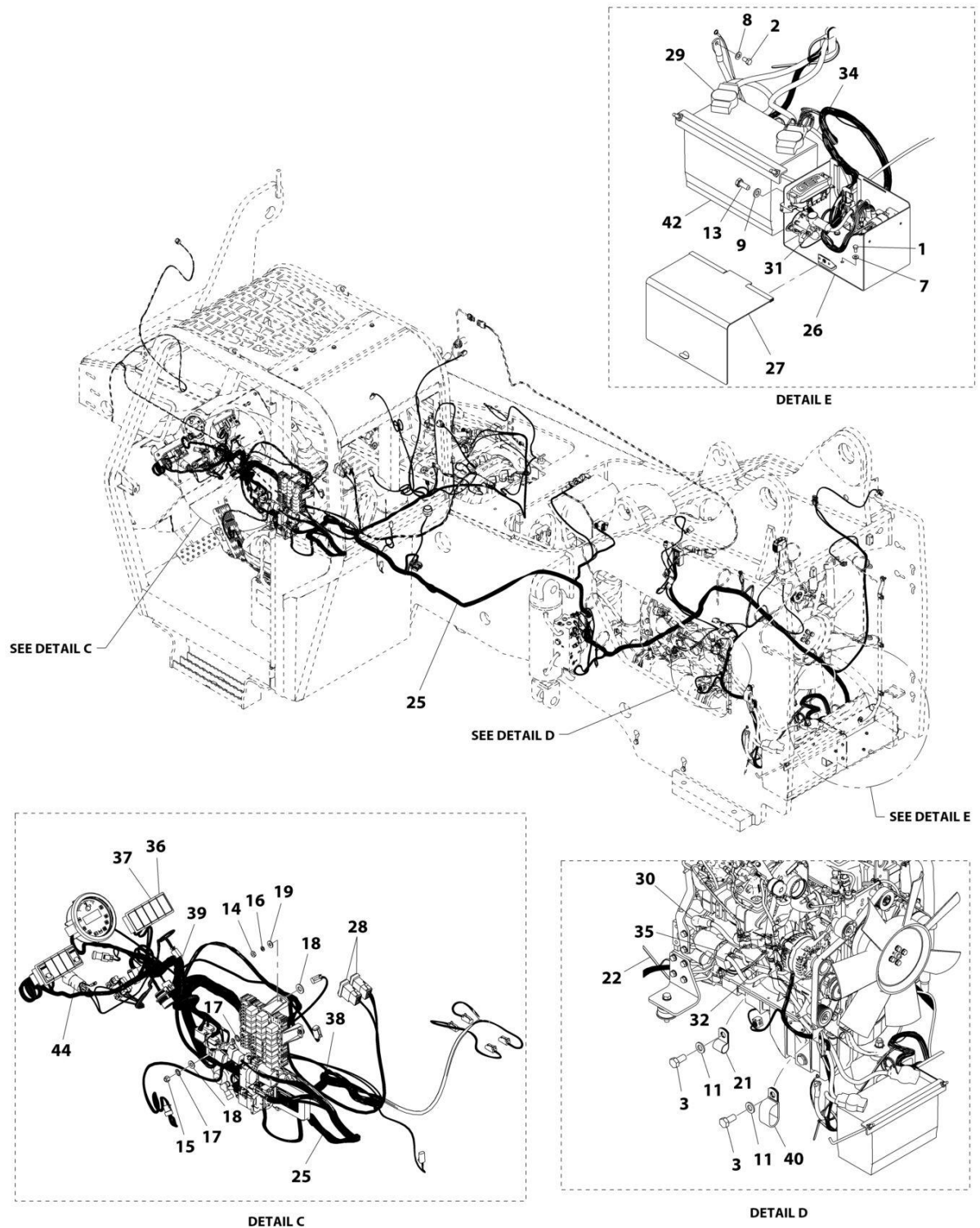
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FIGURE 10-2. ELECTRICAL INSTALLATION (130HP ULS)



ART_1001252320_1-B

SECTION 10 - ELECTRICAL



ART_1001252320_2-B

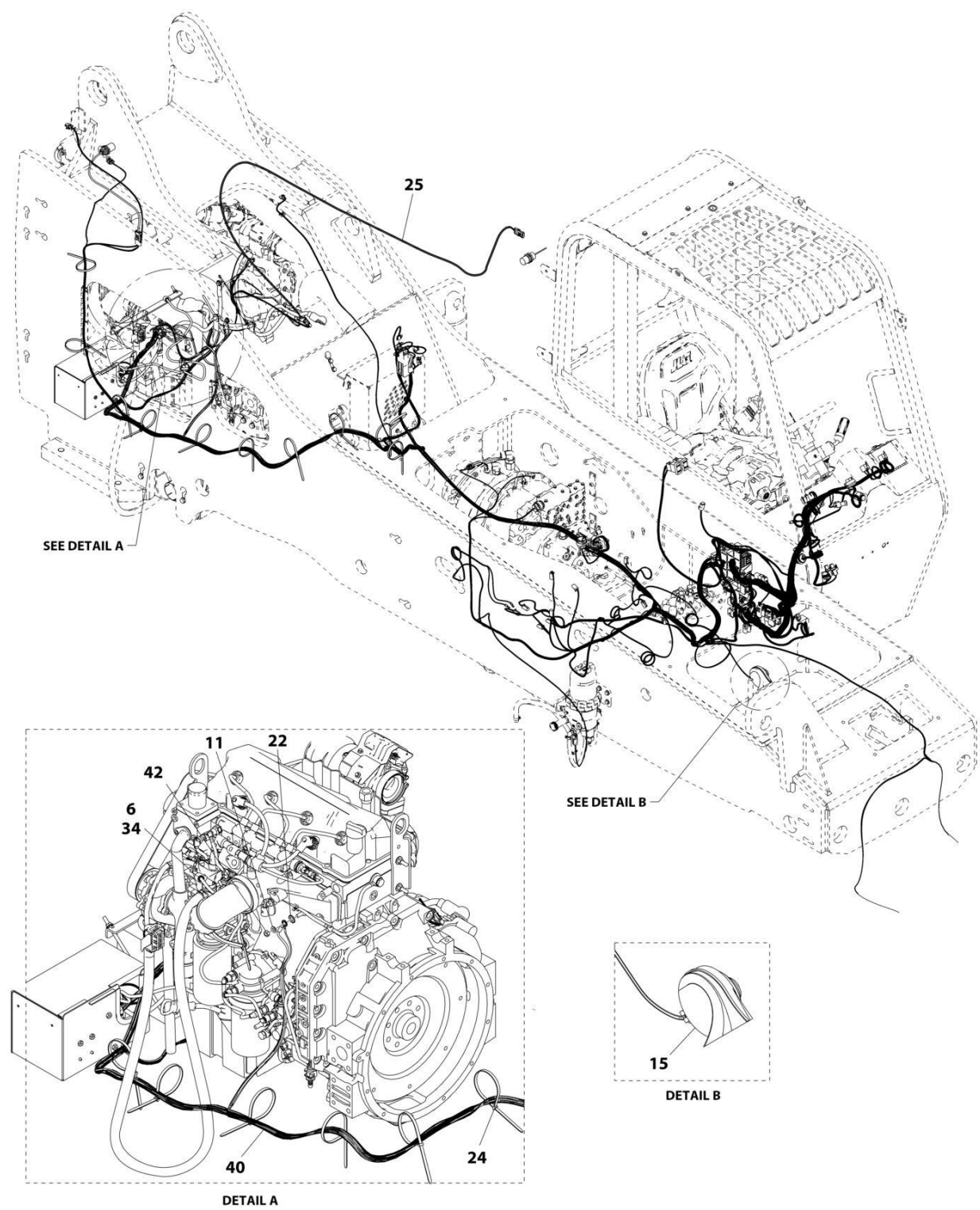
SECTION 10 - ELECTRICAL

FIGURE 10-2. ELECTRICAL INSTALLATION (130HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001252320	Ref	Electrical Installation (ULS)	B
1	0641404	3	Bolt 1/4X1/2	
2	0641605	1	Bolt 3/8X5/8	
3	0761212	2	Bolt M12X25	
5	3290601	1	Nut M6X1	
7	4711400	3	Washer 1/4	
8	4711600	1	Washer 3/8	
9	4811700	2	Washer M6	
10	4811900	1	Washer, M8	
11	4812100	2	Washer, M12	
12	8270620	1	Horn, Signal	
13	8303545	2	Bolt M6X14	
14	8305002	4	Nut #10	
15	8305624	2	Nut 1/4	
16	8307003	4	Washer M10	
17	8307027	4	Washer 5/16	
18	8307106	6	Washer 5/16	
19	8307111	4	Washer M10	
20	8310046	1	Washer M10	
21	8406105	1	Clip, Tube	
22	8584001	14	Wrap, Tie	
23	1001127226	1	Boom Extend Harness (See Separate Breakdown in this Section)	
24	1001130307	2	Sensor, Boom	
25	1001169620	1	Harness, Engine (See Separate Breakdown in this Section)	
26	1001170233	1	Installation, Relay Panel (See Separate Breakdown in this Section)	
27	1001170234	1	Assembly, Relay Panel Cover (See Separate Breakdown in this Section)	
28	1001170269	2	Switch, Outtrigger	
29	1001171234	1	Cable, Battery Negative	
30	1001171236	1	Cable, Starter Ground	
31	1001171237	1	Cable, Grid Heater to Fuse Power	
32	1001171238	1	Cable, Alternator Power	
33	1001171239	1	Cable, Grid Heater Power	
34	1001171633	1	Cable, Buss Power	
35	1001171757	1	Cable, Starter Power	
36	1001172135	1	Indicator, Engine	
37	1001172136	1	Indicator, Hest	
38	1001251503	1	Logic Harness (See Separate Breakdown in this Section)	
39	1001178285	1	Harness, Cab Power Distribution (See Separate Breakdown in this Section)	
40	1001181899	1	Clamp	
41	1001184835	1	Harness, TBAP (See Separate Breakdown in this Section)	
42	1001186841	1	Installation, Battery (See Separate Breakdown in this Section)	
43	3290801	1	Nut M8	
44	1001250700	1	Switch, Pressure	

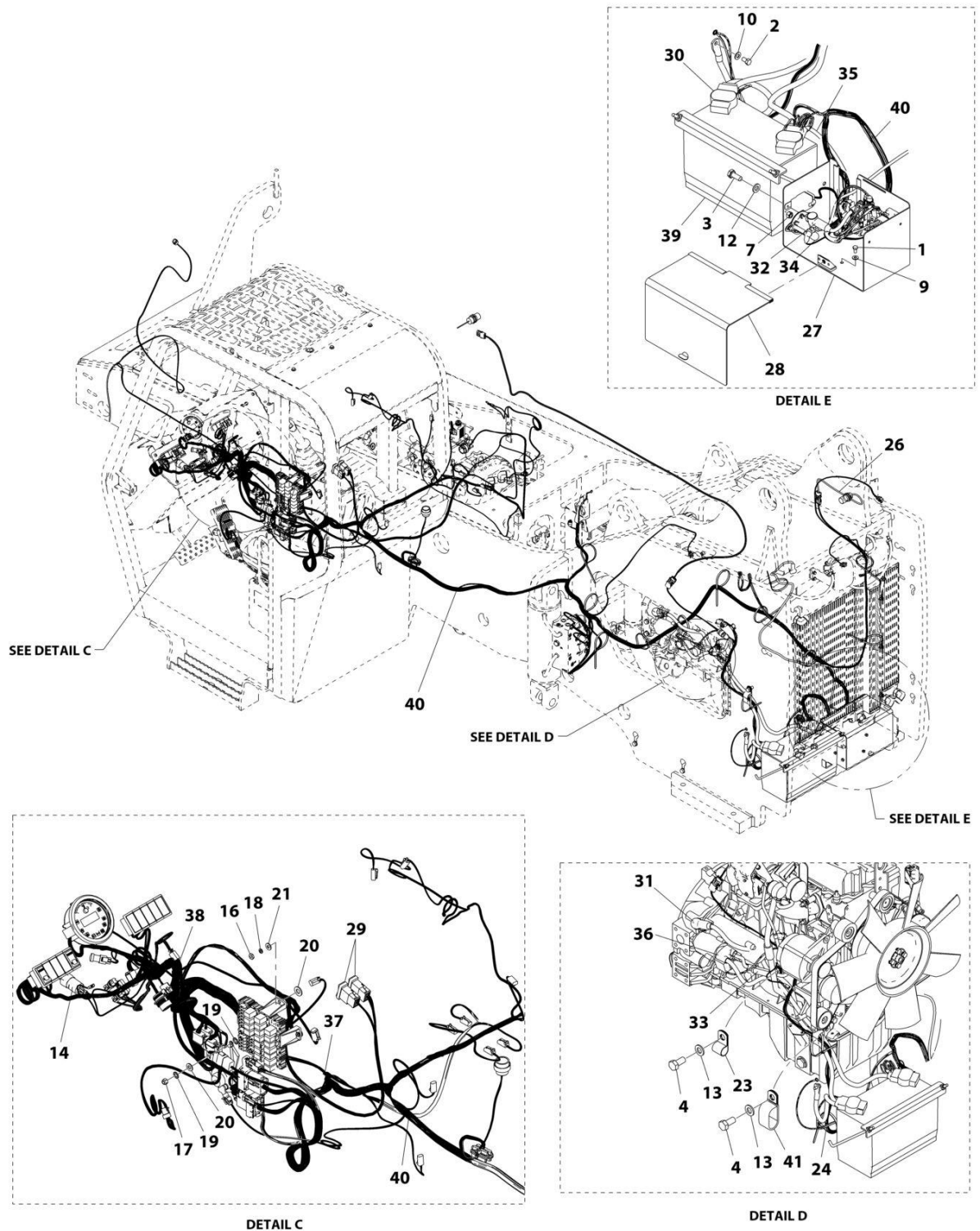
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FIGURE 10-3. ELECTRICAL INSTALLATION (130HP LS)



ART_1001252322_1-B

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ART_1001252322_2-B

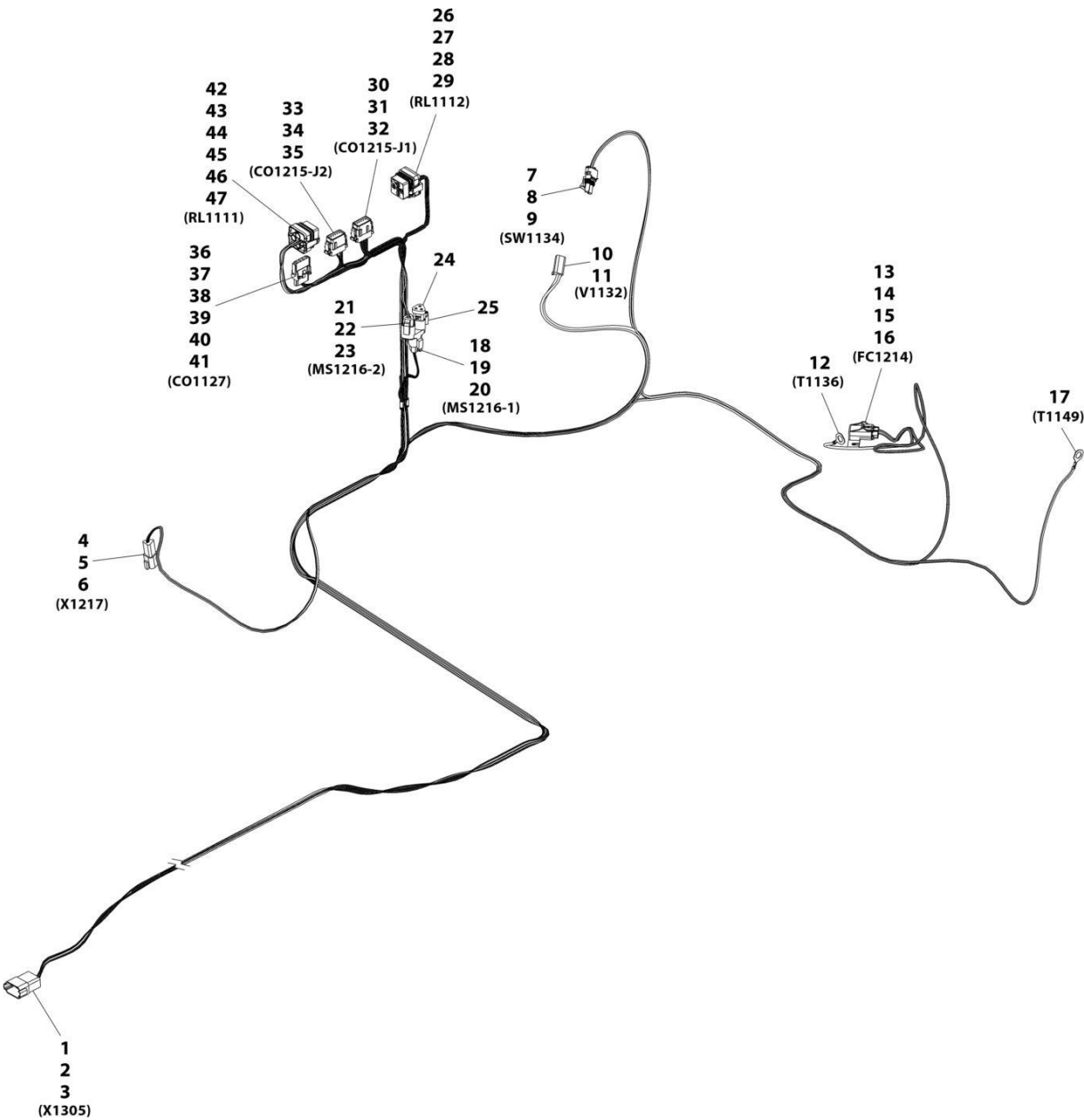
SECTION 10 - ELECTRICAL

FIGURE 10-3. ELECTRICAL INSTALLATION (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001252322	Ref	Electrical Installation (LS)	B
1	0641404	3	Bolt 1/4X1/2	
2	0641605	1	Bolt 3/8X5/8	
3	8303545	1	Bolt M6X14	
4	0761212	2	Bolt, M12X25	
6	3290601	1	Nut M6	
7	3290605	1	Nut M6	
9	4711400	3	Washer 1/4	
10	4711600	1	Washer 3/8	
11	4811900	1	Washer M8	
12	4811702	1	Washer, M6	
13	4812100	2	Washer M12	
14	1001250700	1	Switch, Pressure	
15	8270620	1	Horn, Signal	
16	8305002	4	Nut #10	
17	8305624	2	Nut 1/4	
18	8307003	4	Washer M10	
19	8307027	4	Washer 5/16	
20	8307106	6	Washer 5/16	
21	8307111	4	Washer M10	
22	8310046	1	Washer M10	
23	8406105	1	Clip, Tube	
24	8584001	14	Wrap, Tie	
25	1001127226	1	Harness, Boom Extend (See Separate Breakdown in this Section)	
26	1001130307	2	Sensor, Boom	
27	1001170233	1	Installation, Relay Panel (See Separate Breakdown in this Section)	
28	1001170234	1	Assembly, Relay Panel Cover (See Separate Breakdown in this Section)	
29	1001170269	2	Switch, Outtrigger	
30	1001171234	1	Cable, Battery Negative	
31	1001171236	1	Cable, Starter Ground	
32	1001171237	1	Cable, Grid Heater to Fuse Power	
33	1001171238	1	Cable, Alternator Power	
34	1001171239	1	Cable, Grid Heater Power	
35	1001171633	1	Cable, Buss Power	
36	1001171757	1	Cable, Starter Power	
37	1001251503	1	Harness, Logic (See Separate Breakdown in this Section)	
38	1001178285	1	Harness, Cab Power Distribution (See Separate Breakdown in this Section)	
39	1001186841	1	Installation, Battery (See Separate Breakdown in this Section)	
40	1001189488	1	Engine Harness (See Separate Breakdown in this Section)	
41	1001181899	1	Clamp	
42	3290801	1	Nut M8	

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FIGURE 10-4. AIR SHUT OFF VALVE ENGINE HARNESS



ART_1001216455

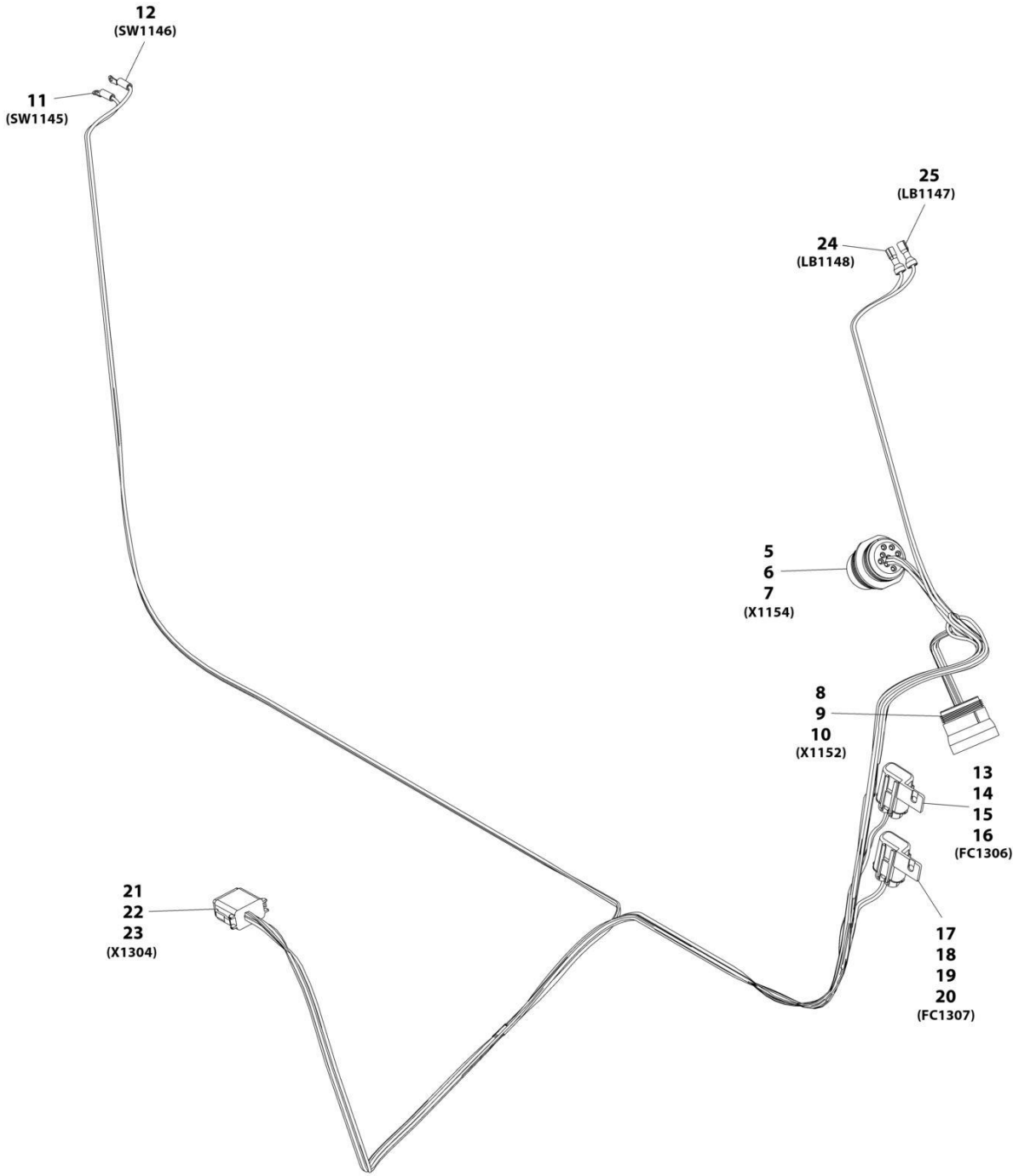
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FIGURE 10-4. AIR SHUT OFF VALVE ENGINE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001216455	Ref	POSI Air Shut Off Valve T4F, Harness	F
1	4460931	1	Connector	
2	4460464	6	Terminal	
3	4460466	2	Plug	
4	1001144147	1	Connector	
5	4460464	2	Terminal	
6	4460466	1	Plug	
7	4460742	1	Connector	
8	4460475	2	Terminal	
9	4460458	2	Seal	
10	4460891	1	Connector	
11	1001157890	2	Terminal	
12	1001187078	1	Terminal, Ring	
13	1001231397	1	Connector	
14	8229235	1	Fuse 20A	
15	1001231401	2	Terminal	
16	1001230402	2	Seal	
17	1001187078	1	Connector	
18	1001116812	1	Connector	
19	4460465	2	Terminal	
20	4460466	1	Plug	
21	4460539	1	Connector	
22	4460465	2	Terminal	
23	4460466	1	Plug	
24	1001116815	1	Connector, 3 Pin	
25	4460945	1	Terminal, 3 Way "T" Receptacle	
26	1001231398	1	Connector	
27	1001231400	4	Terminal	
28	1001231406	1	Plug	
29	1001231404	4	Seal	
30	1001116808	1	Connector	
31	1001126008	9	Terminal	
32	4460518	3	Plug	
33	1001116774	1	Connector	
34	4460518	8	Plug	
35	1001126008	4	Terminal	
36	4460761	1	Connector	
37	4460321	1	Connector - 4 Position	
38	4460809	4	Plug	
39	1001118378	4	Terminal	
40	1001143551	1	Seal	
41	1001218358	1	Lanyard, Rope	
42	1001231398	1	Connector	
43	1001231401	2	Terminal	
44	1001231400	2	Terminal	
45	1001231406	1	Plug	
46	1001231402	2	Seal	
47	1001231404	2	Seal	

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FIGURE 10-5. AIR SHUT OFF VALVE CAB HARNESS



ART_1001231560-C

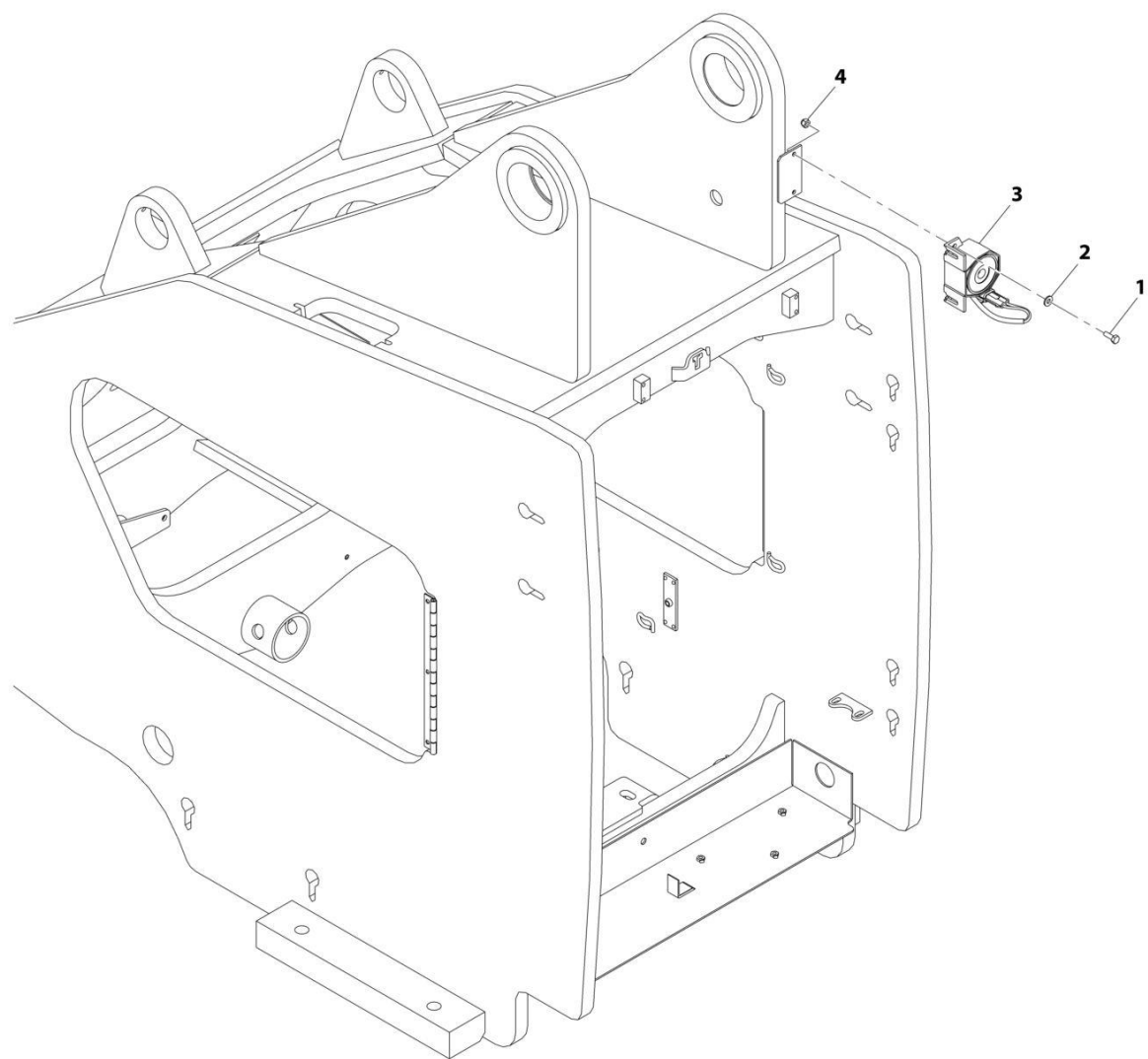
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FIGURE 10-5. AIR SHUT OFF VALVE CAB HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231560	Ref	POSI Air Shut Off Valve Cab, Harness	C
5	1001112612	1	Connector	
6	4460464	6	Terminal	
7	4460466	3	Plug	
8	1001116945	1	Connector	
9	4460465	6	Terminal	
10	4460466	3	Plug	
11	8220035	1	Terminal, Ring	
12	8220035	1	Terminal, Ring	
13	1001231397	1	Connector	
14	8229261	1	Fuse 5A	
15	1001231400	2	Terminal	
16	1001231404	2	Plug	
17	1001231397	1	Connector	
18	8229234	1	Fuse 10A	
19	1001231400	2	Terminal	
20	1001231404	2	Plug	
21	4460930	1	Connector	
22	4460465	6	Terminal	
23	4460466	2	Plug	
24	8220108	1	Connector	
25	8220108	1	Connector	

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FIGURE 10-6. ALARM INSTALLATION - BACK-UP



ART_1001206542-A

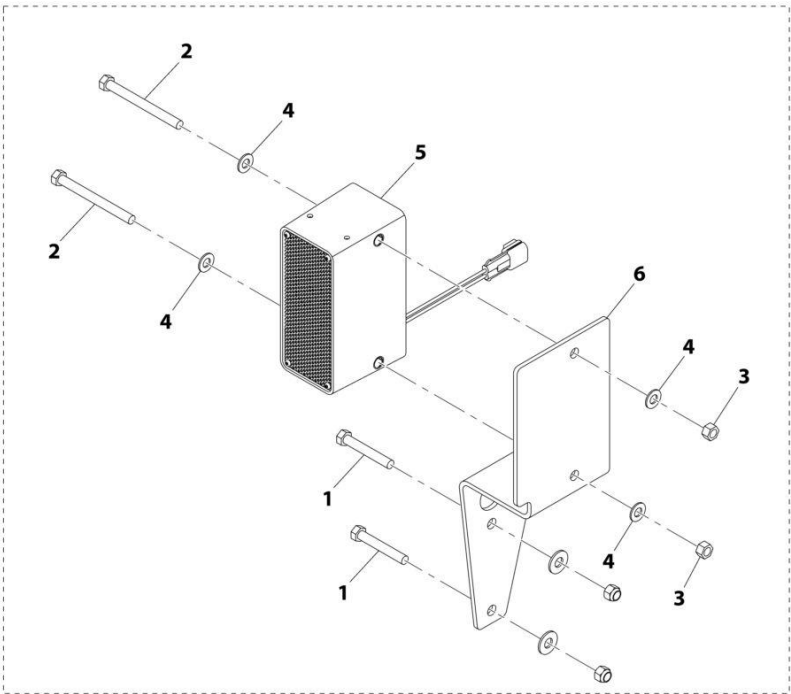
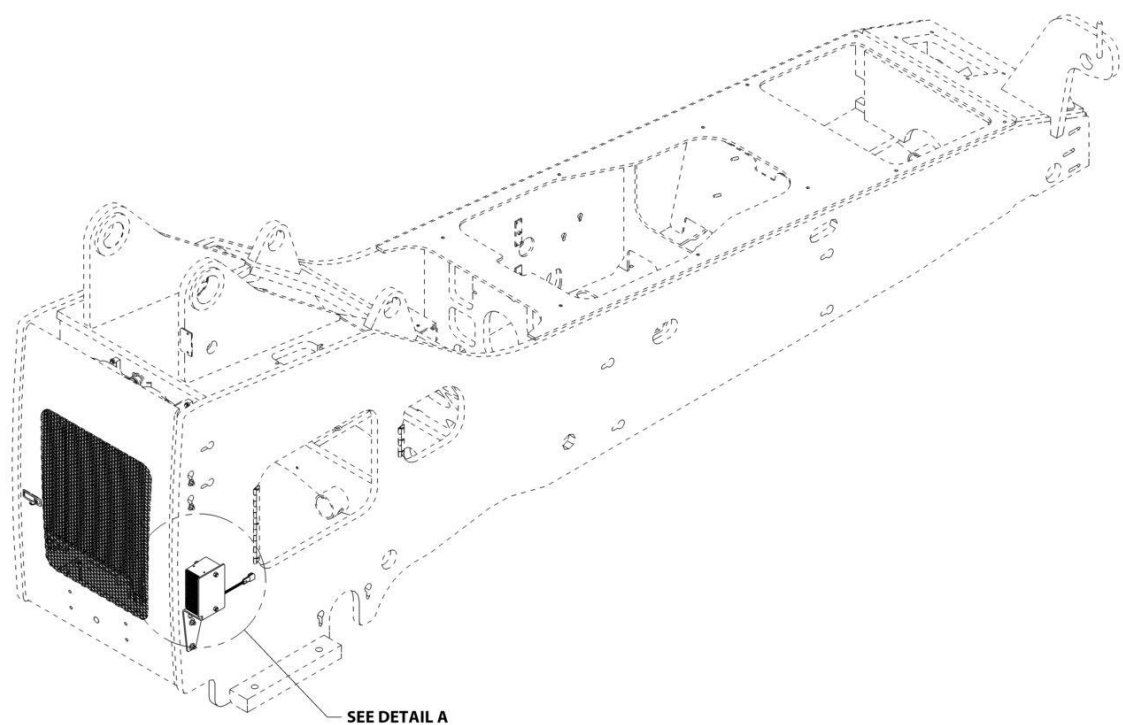
SECTION 10 - ELECTRICAL

FIGURE 10-6. ALARM INSTALLATION - BACK-UP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206542	Ref	Back-Up Alarm Installation	A
1	0641406	2	Bolt 1/4X3/4	
2	4711400	2	Washer 1/4	
3	8270621	1	Alarm, Back-Up	
4	8305624	2	Nut 1/4	

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FIGURE 10-7. ALARM INSTALLATION - BACK-UP (WHITE NOISE)



DETAIL A

ART_1001206543-A

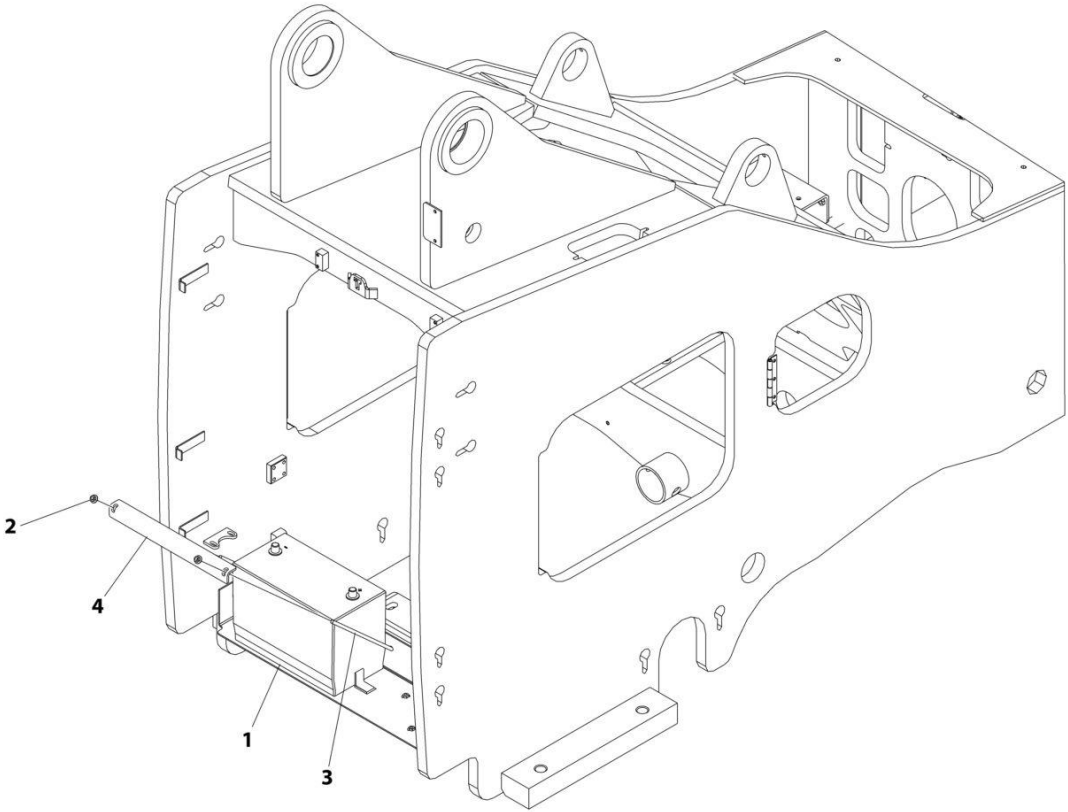
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FIGURE 10-7. ALARM INSTALLATION - BACK-UP (WHITE NOISE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206543	Ref	Back-Up Alarm Installation (White Noise)	A
1	0641620	2	Bolt 3/82-1/2	
2	0641632	2	Bolt 3/8X4	
3	3311605	2	Nut 3/8	
4	4711600	4	Washer 3/8	
5	1001198728	1	Alarm	
6	1001213574	1	Bracket	

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FIGURE 10-8. BATTERY INSTALLATION



ART_1001186841

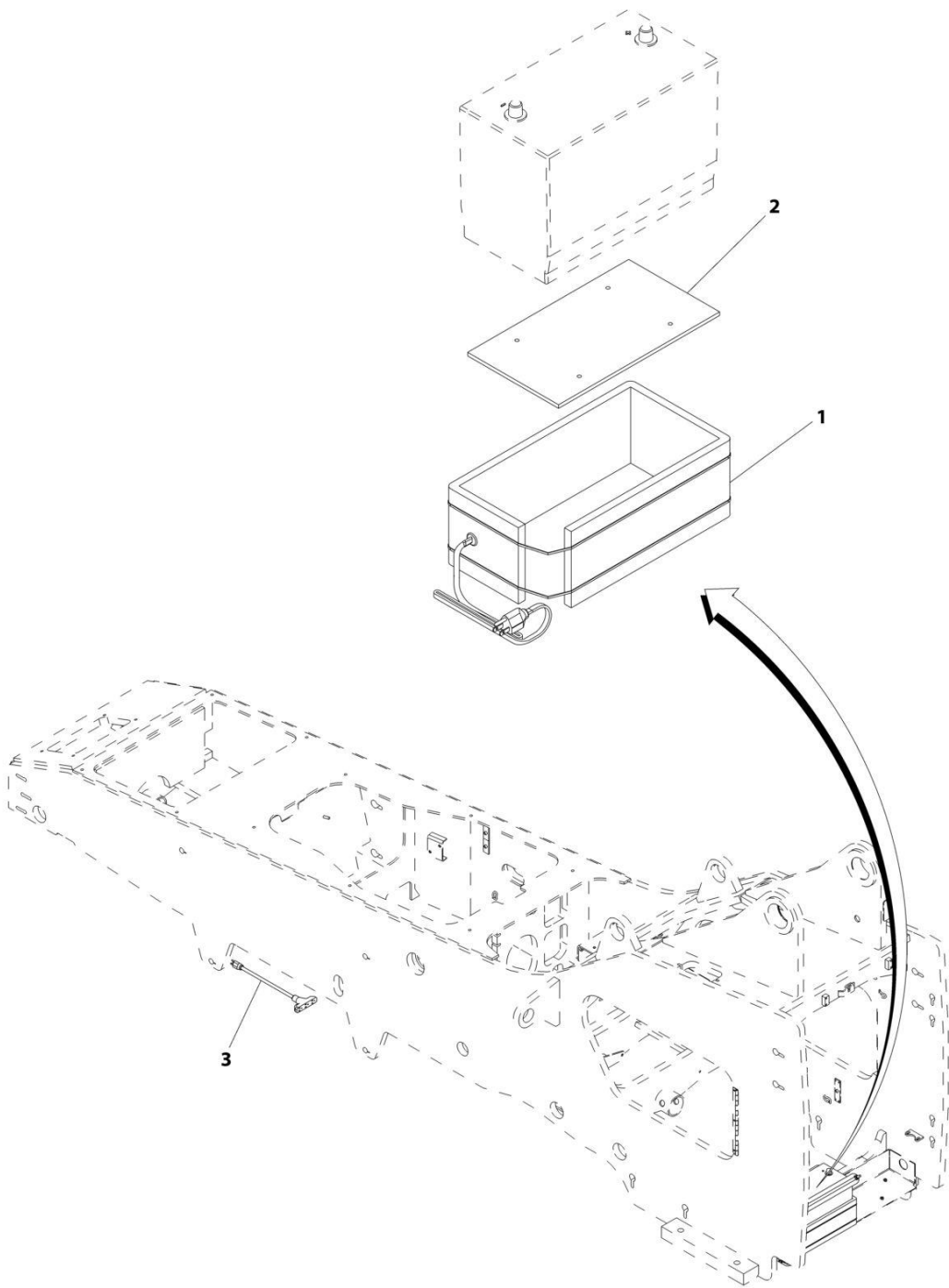
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FIGURE 10-8. BATTERY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186841	Ref	Battery Installation	B
1	0400075	1	Battery, 12V	
2	77143006	2	Nut 5/16	
3	91081640	2	Bolt, Battery Hold Down	
4	1001258991	1	Plate, Battery Hold Down	

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FIGURE 10-9. BATTERY BLANKET INSTALLATION



ART_1001234216-A

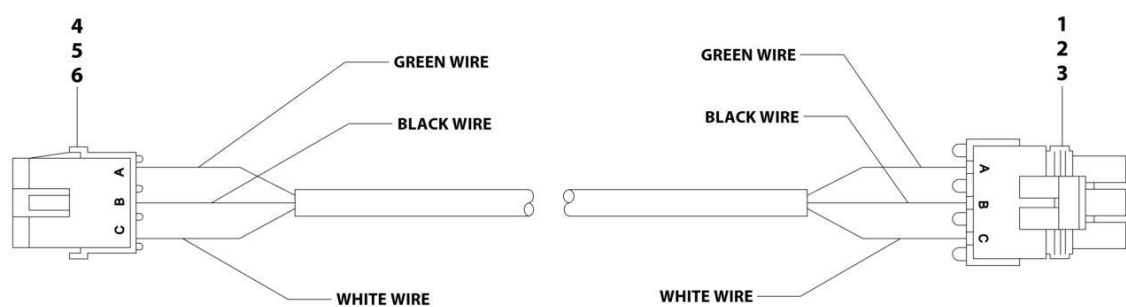
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FIGURE 10-9. BATTERY BLANKET INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001234216	Ref	Battery Blanket Installation	A
1	1001093564	1	Battery Heater	
2	1001119278	1	Battery Insulate	
3	1060626	1	3 Way Plug	

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FIGURE 10-10. BOOM EXTEND HARNESS



ART_1001127226-C

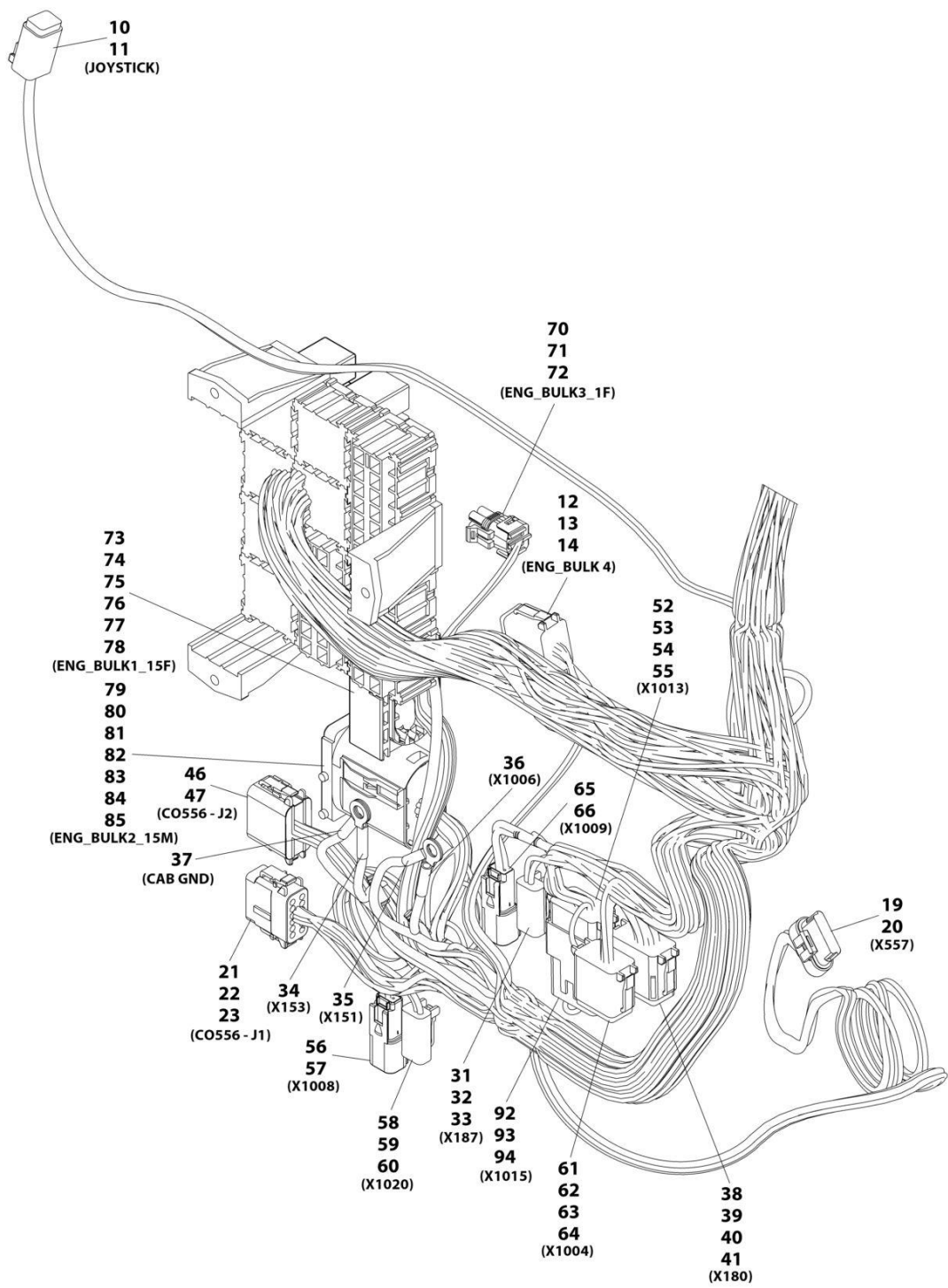
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FIGURE 10-10. BOOM EXTEND HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127226	Ref	Boom Extend Harness	C
1	4460459	1	Connector	
2	4460457	3	Terminal	
3	4460458	3	Seal	
4	4460476	1	Connector	
5	4460475	3	Terminal	
6	4460458	3	Seal	

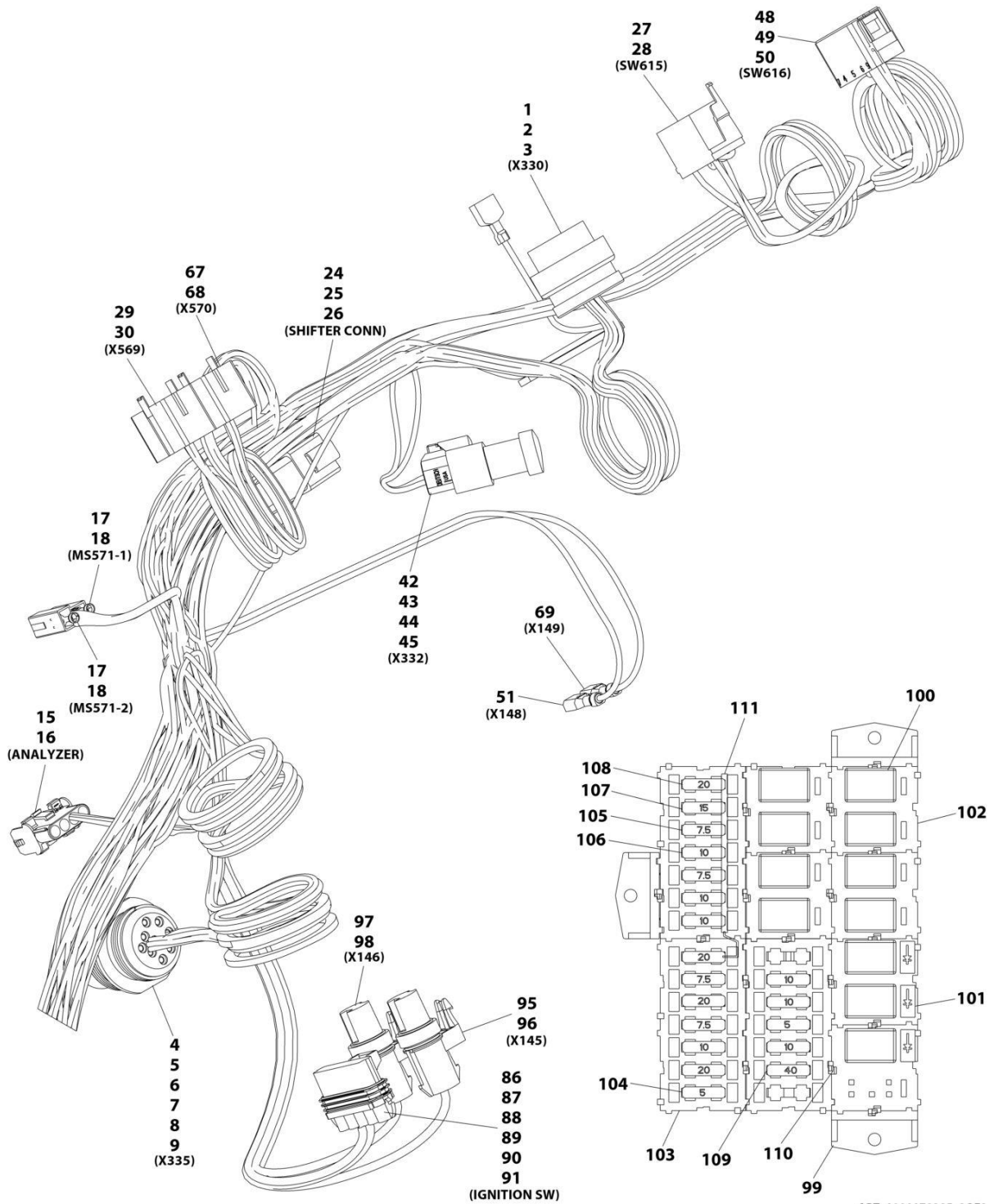
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FIGURE 10-11. CAB POWER DISTRIBUTION HARNESS



ART_1001178285_10F2

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FIGURE 10-11. CAB POWER DISTRIBUTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178285	Ref	Cab Power Distribution Harness	O
1	4460872	1	Connector	
2	4460871	10	Terminal, Socket	
3	4460905	4	Plug, Seal	
4	1001112612	1	Connector	
5	1001149712	1	Cap	
6	1001125784	1	Lockwasher	
7	1001125785	1	Nut	
8	4460464	6	Terminal	
9	4460466	3	Plug	
10	4460884	1	Connector	
11	4460465	4	Terminal	
12	4460930	1	Connector	
13	4460465	6	Terminal	
14	4460466	2	Plug	
15	4460761	1	Connector	
16	1001118378	4	Terminal	
17	4460994	2	Connector	
18	1001200833	4	Terminal	
19	1001230931	1	Connector	
20	1001116748	6	Terminal	
21	1001116808	1	Connector	
22	1001126008	10	Terminal, Socket	
23	4460518	2	Terminal, Plug	
24	4460970	1	Connector	
25	4460464	9	Terminal	
26	4460466	3	Plug	
27	8220904	1	Connector	
28	4460419	6	Terminal	
29	1001117119	1	Connector	
30	1001159186	4	Terminal	
31	4460891	1	Connector	
32	1001157890	1	Terminal	
33	4460942	1	Terminal	
34	1001117106	1	Terminal, Ring	
35	1001117106	1	Terminal, Ring	
36	1001117106	1	Terminal, Ring	
37	1001117106	1	Terminal, Ring	
38	4460836	1	Connector	
39	4460509	5	Terminal, Socket	
40	4460465	6	Terminal	
41	4460466	1	Plug	
42	1001116812	1	Connector	
43	4461070	1	Connector	
44	4460465	2	Terminal	
45	4460466	1	Plug	
46	1001116774	1	Connector	
47	1001126008	12	Terminal, Socket	
48	8220904	1	Connector	
49	4460419	8	Terminal	

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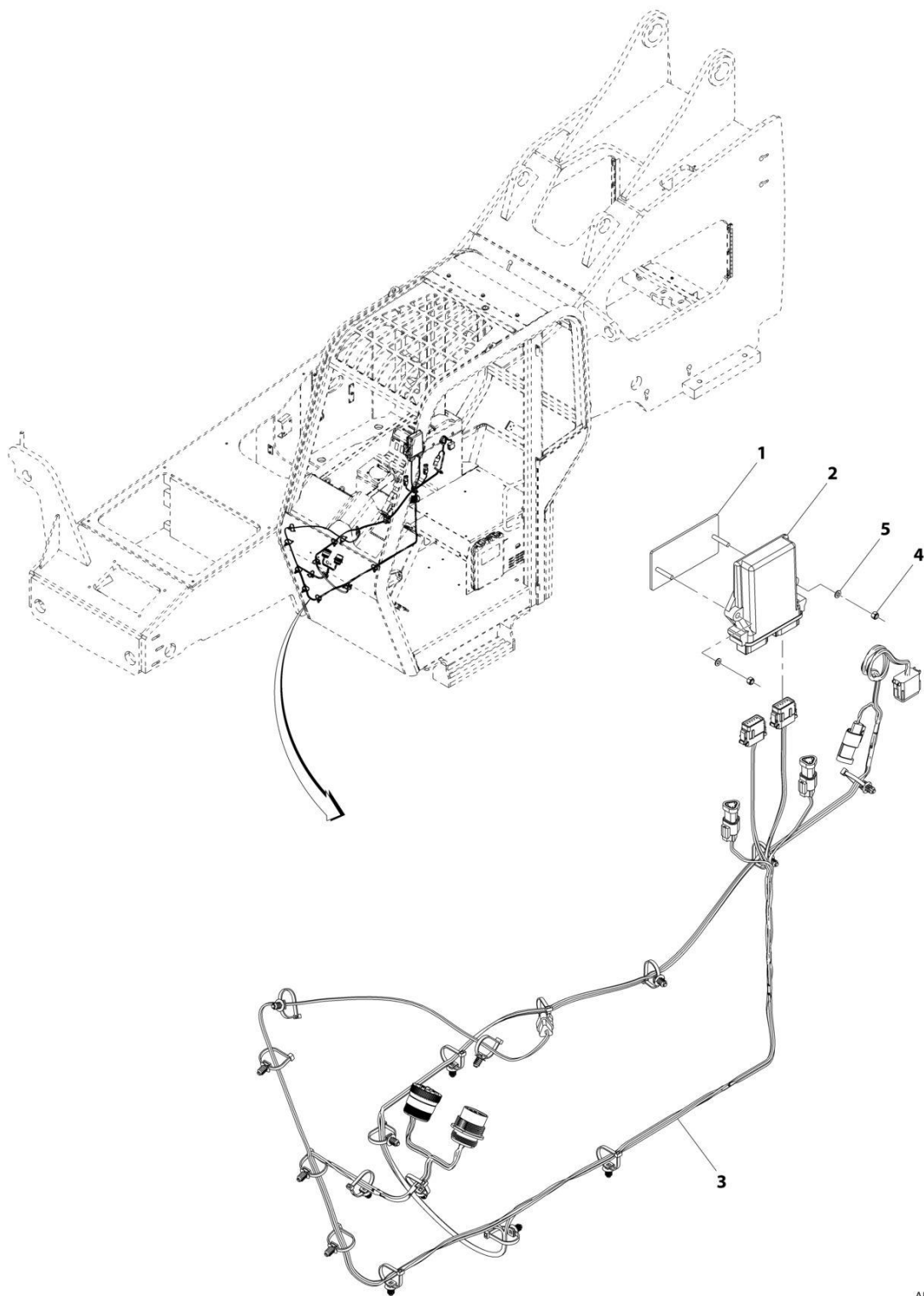
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001195760	2	Terminal	
51	8220051	1	Terminal	
52	4460933	1	Connector	
53	1001003174	3	Terminal, Socket	
54	4460465	7	Terminal	
55	4460466	2	Terminal	
56	4460897	1	Connector	
57	4460464	2	Terminal	
58	4460891	1	Connector	
59	4460465	1	Terminal	
60	1001157890	1	Terminal	
61	4460930	1	Connector	
62	4460465	3	Terminal	
63	1001157890	2	Terminal	
64	4460466	3	Plug	
65	4461017	1	Connector	
66	4460508	2	Terminal, Socket	
67	1001117119	1	Connector	
68	1001159186	2	Terminal	
69	8220051	1	Terminal	
70	80963061	1	Connector	
71	4460790	4	Terminal, Socket	
72	8220089	4	Seal	
73	8220927	1	Connector	
74	1001116726	10	Terminal	
75	8220097	4	Terminal	
76	8220098	1	Terminal	
77	4460458	14	Seal	
78	4460789	1	Seal	
79	8220929	1	Connector	
80	1001116745	3	Terminal	
81	8220162	3	Terminal	
82	1001116729	8	Terminal	
83	1001116727	1	Plug	
84	4460458	11	Seal	
85	80963067	3	Seal	
86	1001121726	1	Connector	
87	8220125	2	Terminal	
88	8220089	2	Seal	
89	1001116726	1	Terminal	
90	4460458	1	Seal	
91	1001116727	2	Plug	
92	4460970	1	Connector	
93	4460466	6	Terminal	
94	4460464	6	Terminal	
95	1001121728	1	Connector, Packard Female, 1POS	
96	1001121730	1	Terminal	
97	1001121728	1	Connector, Packard Female, 1POS	
98	1001121730	1	Terminal	
99	1001200845	3	Leg, Mounting	
100	1001205172	11	Relay, Micro 280, 12V, 35 Amp	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	1001129285	3	Fuse, Mini Diode	
102	1001177198	6	Module, 2 Fuse	
103	1001187952	3	Assembly, Electrical	
104	8229261	2	Fuse, Type 5 A	
105	8229233	4	Fuse, Type 7.5 A	
106	8229234	7	Fuse, Type 10 A	
107	8229237	1	Fuse, Type 15 A	
108	8229235	4	Fuse, Type 20 A	
109	8229238	1	Fuse, Type 40 A	
110	4461103	17	Relay, Locking Wedge	
111	1001210779	1	Terminal	
112	1001116710	43	Terminal	
113	1001116712	12	Terminal	
114	1001210779	1	Terminal	
115	1001192050	10	Terminal	
116	1001210776	4	Terminal	
117	1001192049	11	Terminal	
118	1001210778	2	Terminal	
119	1001210777	8	Terminal	

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FIGURE 10-12. CLEARSKY CANBUS TELEMATICS INSTALLATION



ART_1001220468-A

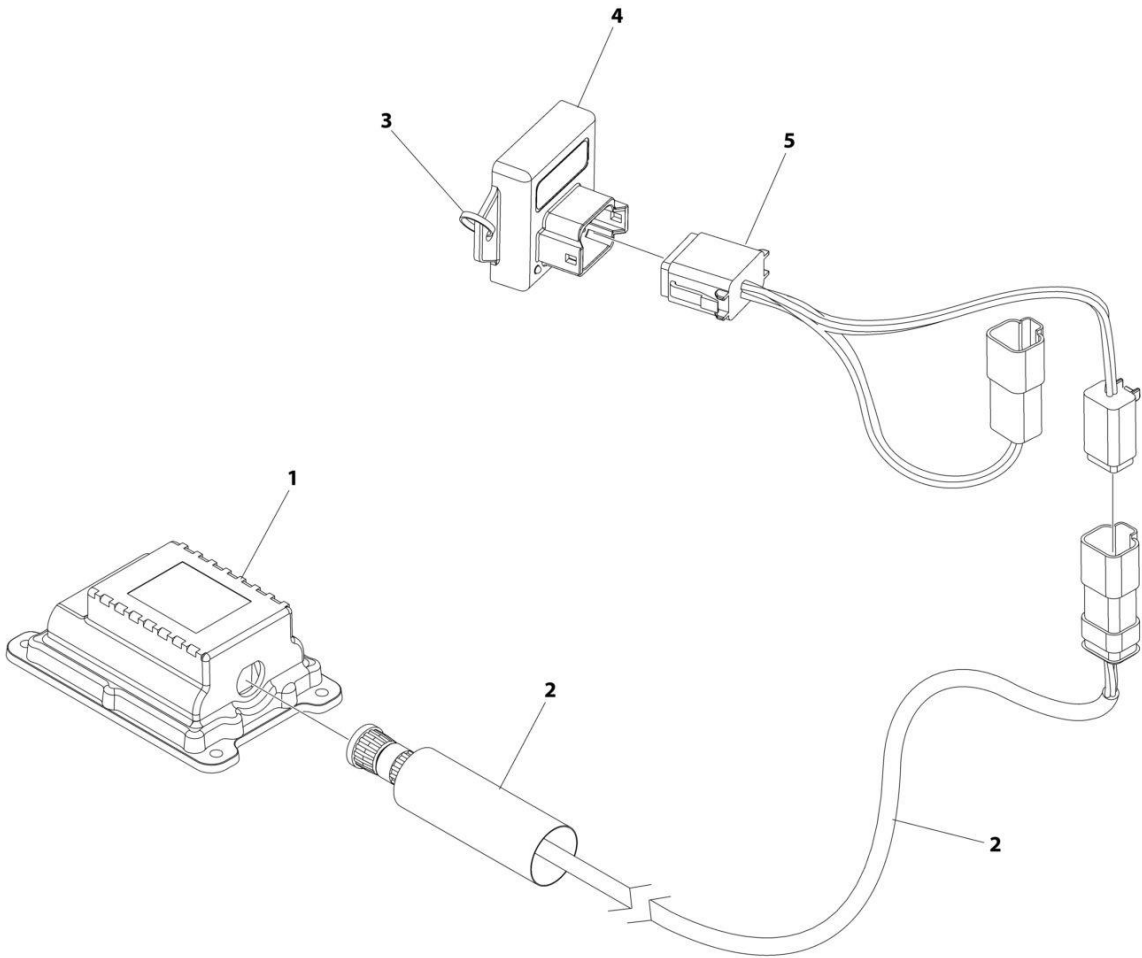
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FIGURE 10-12. CLEARSKY CANBUS TELEMATICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001220468	Ref	Canbus Telematics Installation	A
1	1001219082	1	Bracket, Control Mount	
2	1001229458	1	Controller, Gateway	
3	1001219895	1	Telematics Gateway Harness (See Separate Breakdown in Electrical Section)	
4	3290505	2	Nut, M5X0.8	
5	4811600	2	Washer, M6	

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FIGURE 10-13. CLEARSKY INSTALLATION 3-WIRE (ANSI)



ART_1001229107

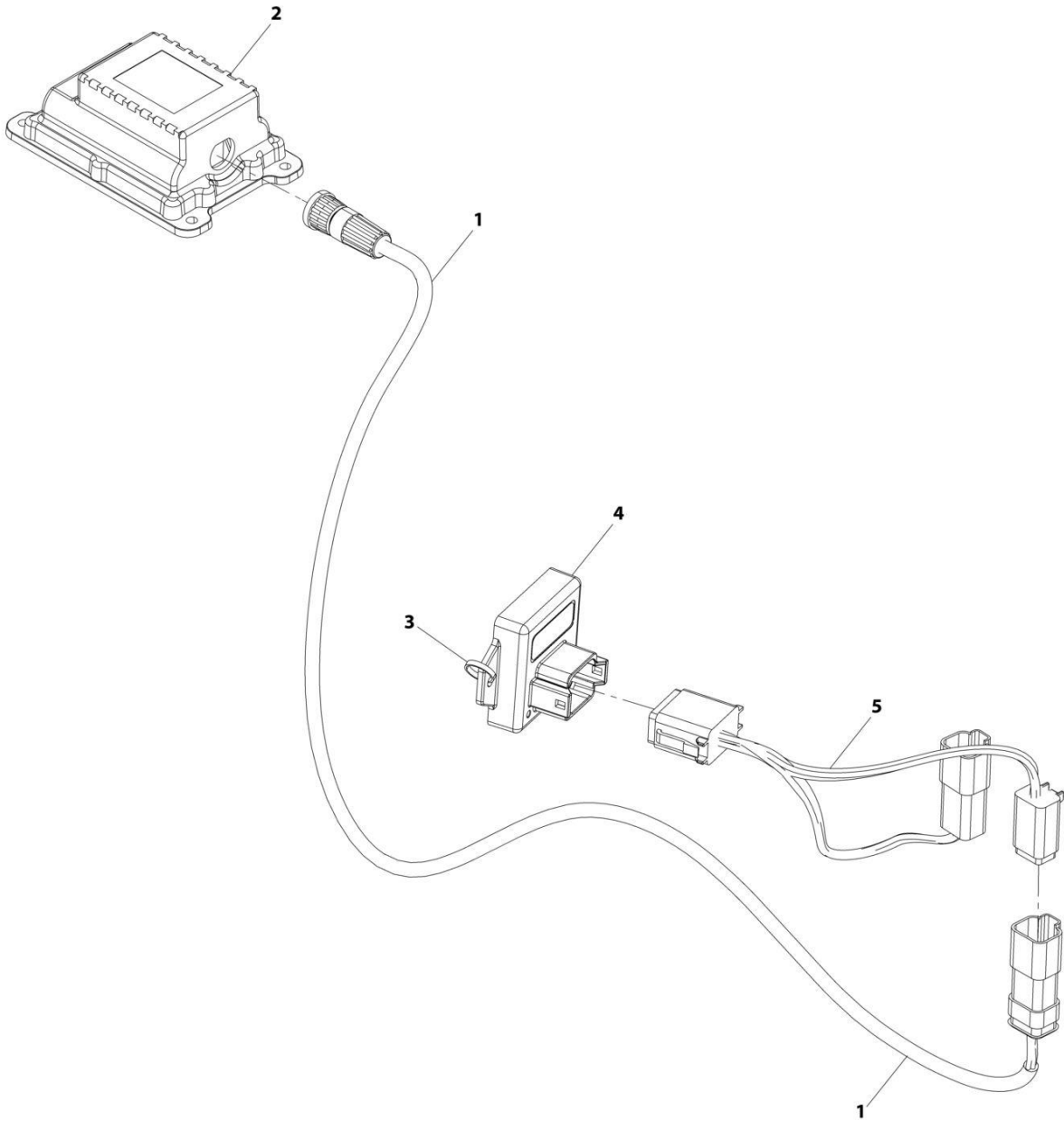
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FIGURE 10-13. CLEARSKY INSTALLATION 3-WIRE (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229107	Ref	CLEARSKY INSTALLATION 3-WIRE	D
1	1001226328	1	Module, 3W TCU	
2	1001227066	1	Telematics ClearSky Harness (See Separate Breakdown in this Section)	
3	4240032	AR	Tie-Strap	
4	1001262960	1	Voltage Regulator	
5	1001262963	1	Harness, Xirgo Jumper	

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FIGURE 10-14. CLEARSKY INSTALLATION 3-WIRE (CE)



ART_1001233237

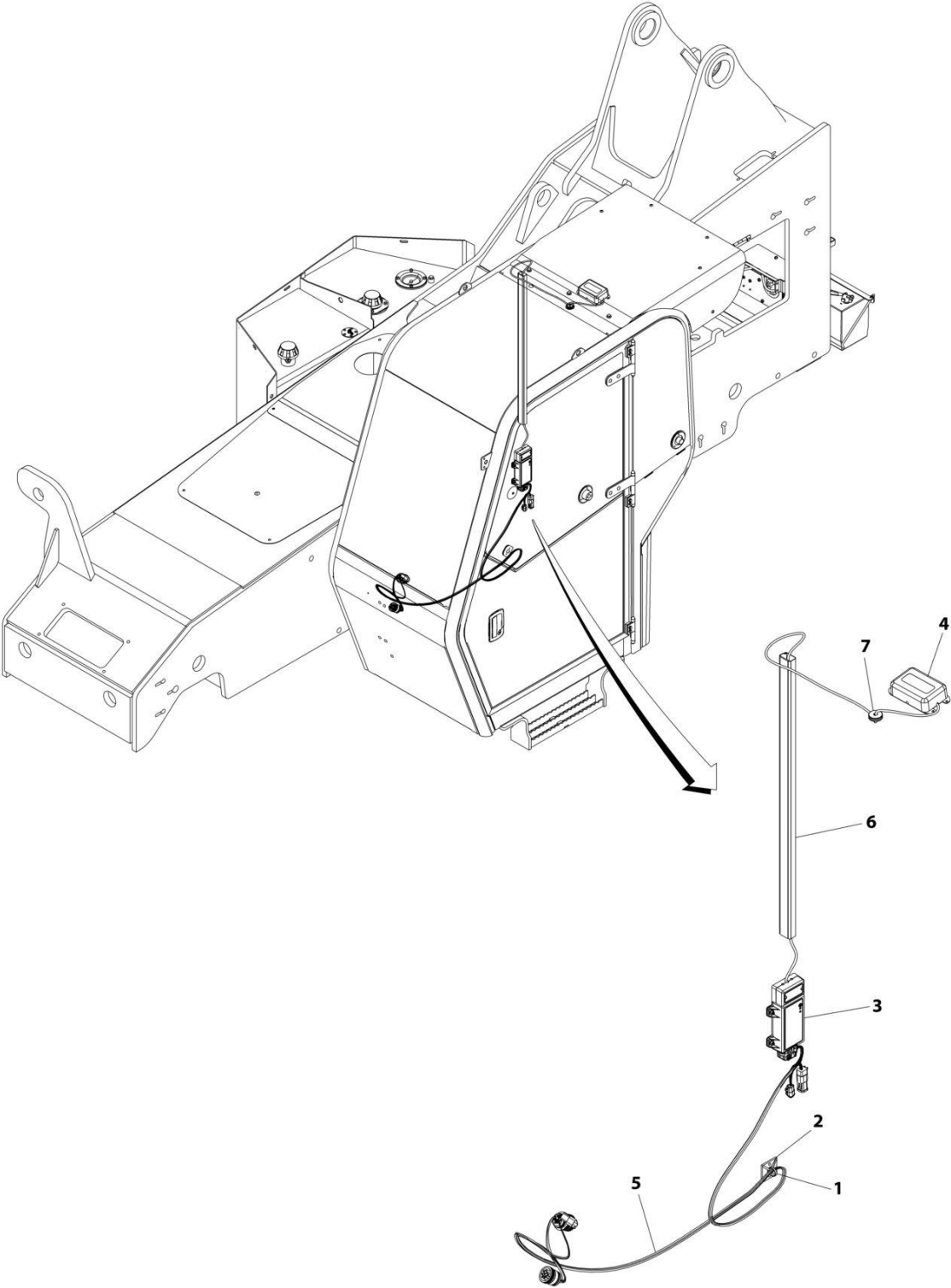
SECTION 10 - ELECTRICAL

FIGURE 10-14. CLEARSKY INSTALLATION 3-WIRE (CE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233237	Ref	Clearsky Installation 3-Wire (CE)	E
1	1001227066	1	Telematics Harness (See Separate Breakdown in this Section)	
2	1001233236	1	Module, 3W TCU	
3	4240032	AR	Tie Strap	
4	1001262960	1	Voltage Regulator	
5	1001262963	1	Harness, Xirgo Jumper	

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FIGURE 10-15. CLEARSKY INSTALLATION CANBUS (ANSI)



ART_1001227459_E

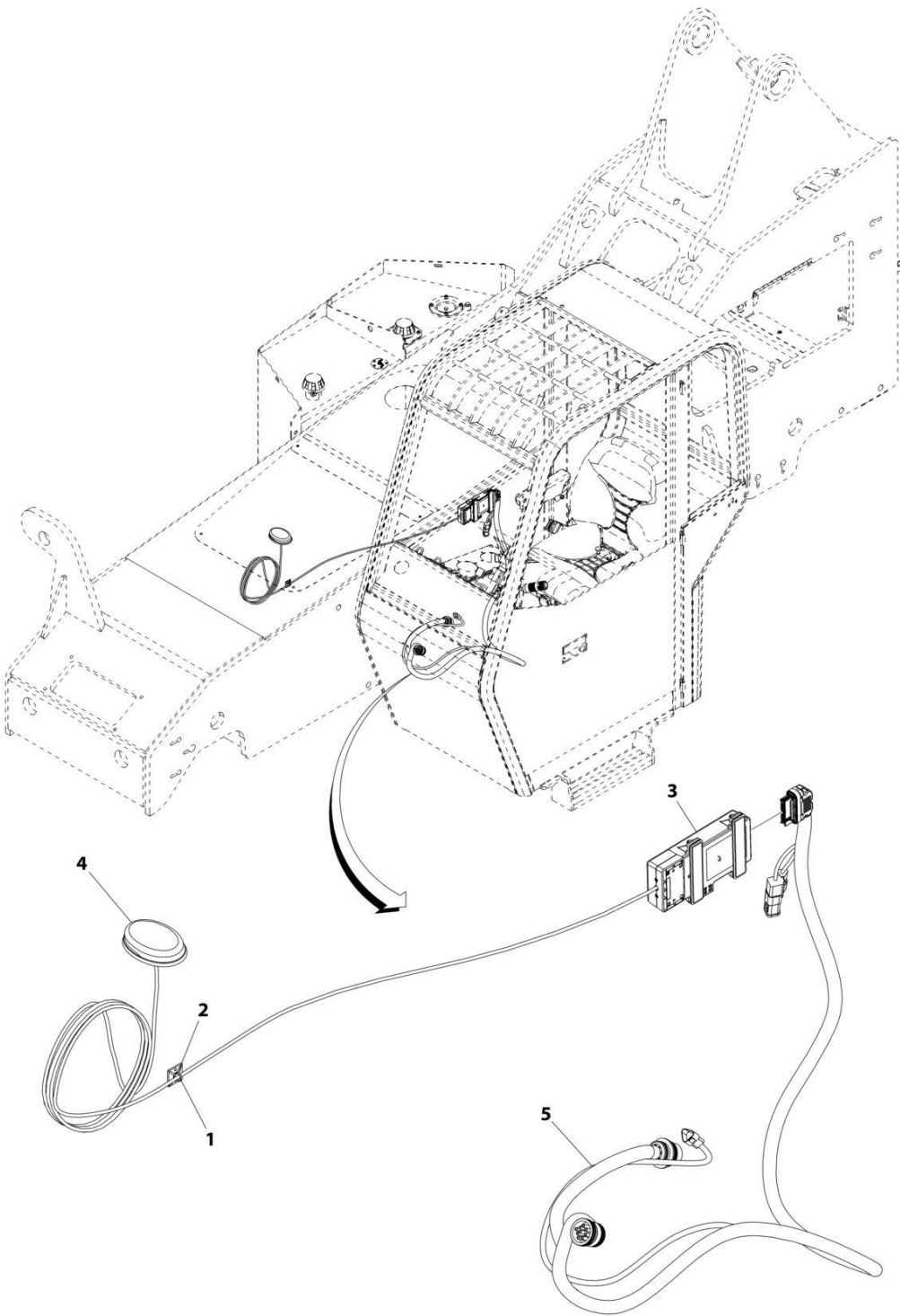
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FIGURE 10-15. CLEARSKY INSTALLATION CANBUS (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227459	Ref	CLEARSKY INSTALLATION	E
1	4240032	AR	Tie-Strap	
2	4460234	AR	Mount, Tie-Strap	
3	1001262322	1	Module (4G)	
4	1001262327	1	Antenna (4G)	
5	1001226856	1	Harness, Clearsky (See Separate Breakdown in this Section)	
6	1001182091	1	Duct, Wire	
7	1001195913	1	Grommet	

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FIGURE 10-16. CLEARSKY INSTALLATION CANBUS (CE)



ART_1001239250-A

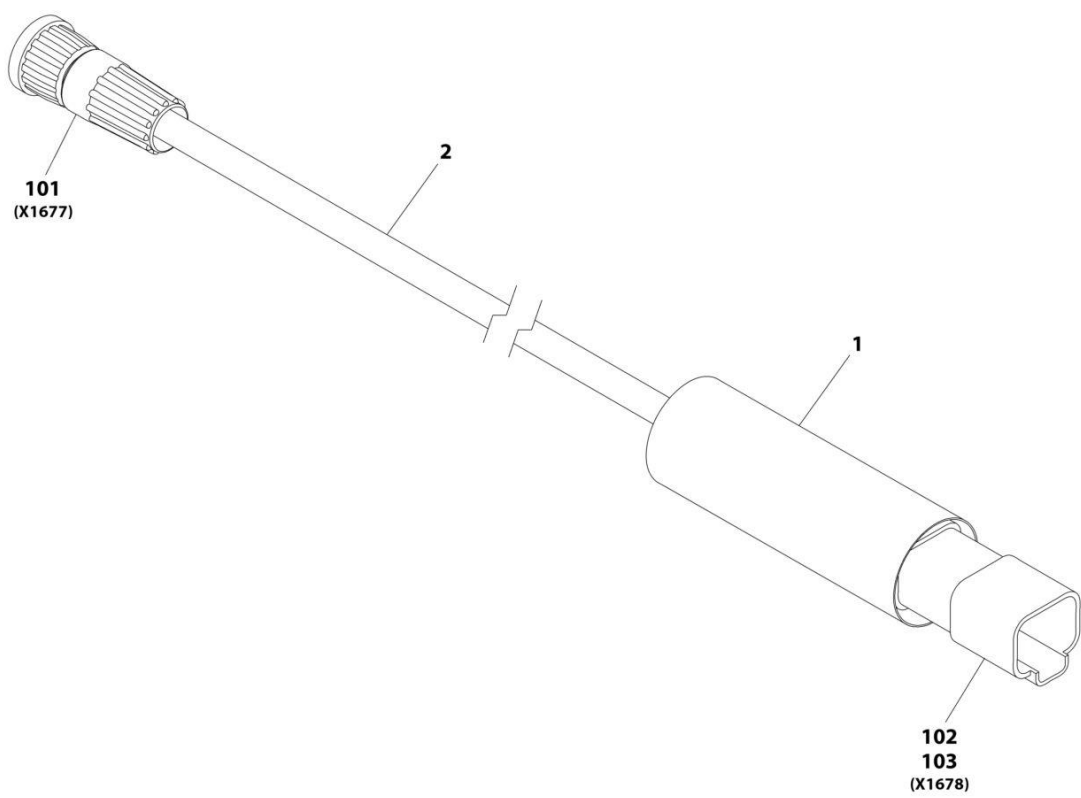
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FIGURE 10-16. CLEARSKY INSTALLATION CANBUS (CE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239250	Ref	Clearsky Installation (CE)	A
1	4240032	AR	Tie-Strap	
2	4460234	AR	Mount, Tie-Strap	
3	1001228954	1	Module	
4	1001226799	1	Antenna	
5	1001226856	1	Harness, Clearsky (See Separate Breakdown in this Section)	

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FIGURE 10-17. CLEARSKYTELEMATICS HARNESS



ART_1001227066-A

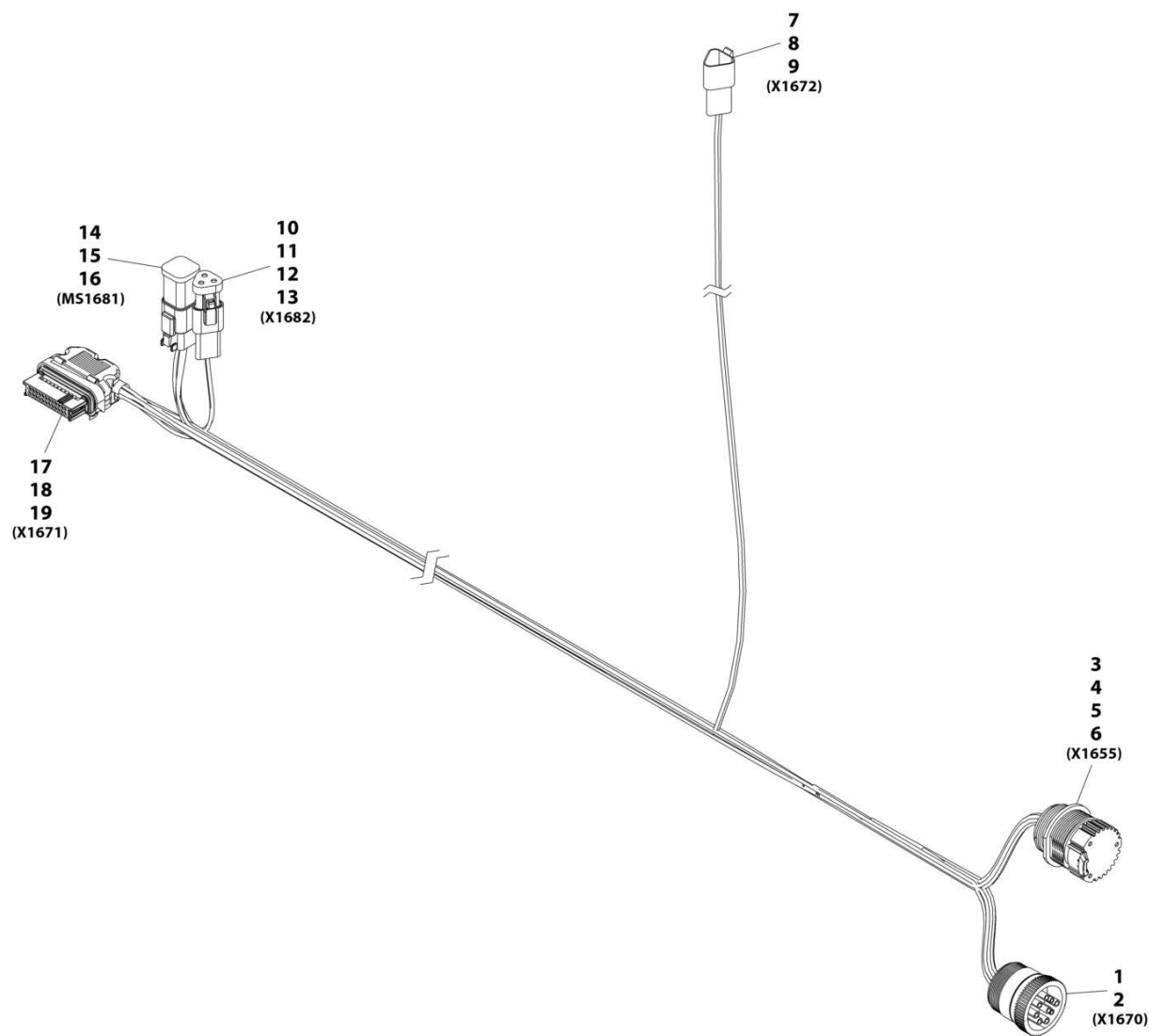
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FIGURE 10-17. CLEARSKYTELEMATICS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227066	Ref	CLEARSKY TELEMATICS HARNESS	A
1	1001226400	0.33 ft	Insulate, Heat Shrink	
2	1001227068	3.3 ft	Cable	
101	1001227266	1	Connector	
102	1001129407	1	Connector	
103	4460464	4	Terminal	

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FIGURE 10-18. CLEARSKY TELEMATICS HARNESS



ART_1001226856-A

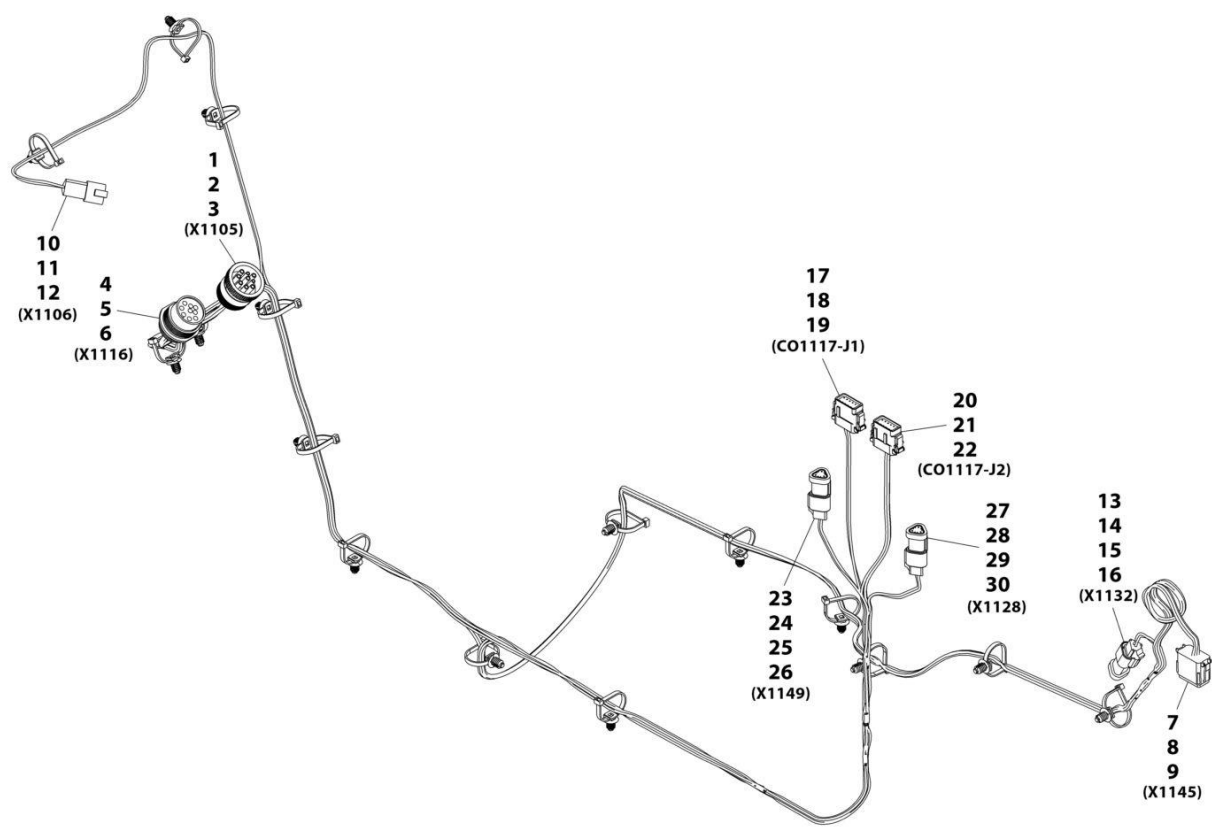
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FIGURE 10-18. CLEARSKY TELEMATICS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001226856	Ref	Clearsky Telematics Harness	A
1	1001112796	1	Connector	
2	4460465	9	Terminal	
3	1001112612	1	Connector	
4	1001149712	1	Cap	
5	1001116693	6	Terminal	
6	4460466	3	Plug	
7	1001144147	1	Connector	
8	4460464	2	Terminal	
9	4460466	1	Plug	
10	1001144147	1	Connector	
11	1001116815	1	Plug	
12	4460464	2	Terminal	
13	4460466	1	Plug	
14	4460894	1	Connector	
15	1001226541	1	Bussbar	
16	4460465	6	Terminal	
17	1001226636	1	Connector	
18	1001116731	16	Plug	
19	1001226637	8	Terminal	

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FIGURE 10-19. CLEARSKYTELEMATICS GATEWAY HARNESS



ART_1001219895-A

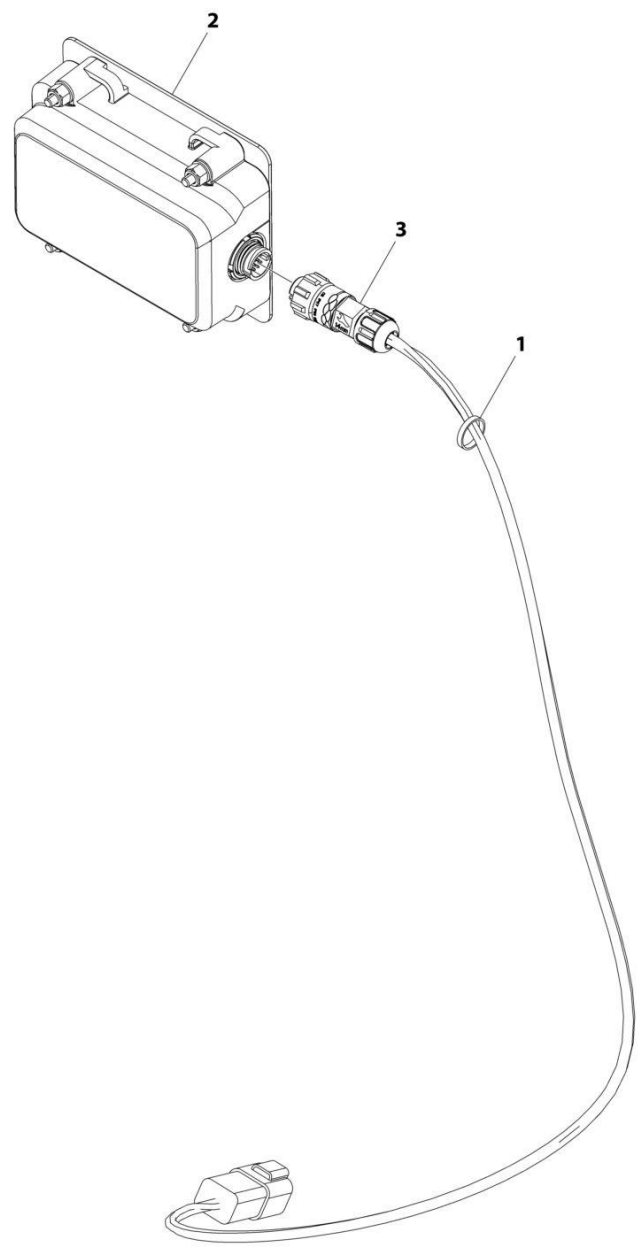
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FIGURE 10-19. CLEARSKYTELEMATICS GATEWAY HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219895	Ref	Telematics Gateway Harness	A
1	1001112796	1	Connector	
2	1001116692	6	Terminal	
3	4460466	3	Plug	
4	1001112612	1	Connector	
5	1001116693	6	Terminal	
6	4460466	3	Plug	
7	4460933	1	Connector	
8	1001116692	5	Terminal	
9	4460466	7	Plug	
10	1001144147	1	Connector	
11	4460464	2	Terminal	
12	4460466	1	Plug	
13	1001116812	1	Connector	
14	4461070	1	Terminal	
15	4460944	2	Terminal	
16	4460466	1	Plug	
17	1001116774	1	Connector	
18	4460518	8	Plug	
19	1001116694	4	Terminal	
20	1001116808	1	Connector	
21	4460518	10	Plug	
22	1001116694	2	Terminal	
23	1001116812	1	Connector	
24	4461070	1	Terminal	
25	4460944	2	Terminal	
26	4460466	1	Plug	
27	1001116812	1	Connector	
28	4461070	1	Terminal	
29	4460944	2	Terminal	
30	4460466	1	Plug	

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FIGURE 10-20. CLEARSKY TELEMATICS 3-WIRE INSTALLATION



ART_1001276920

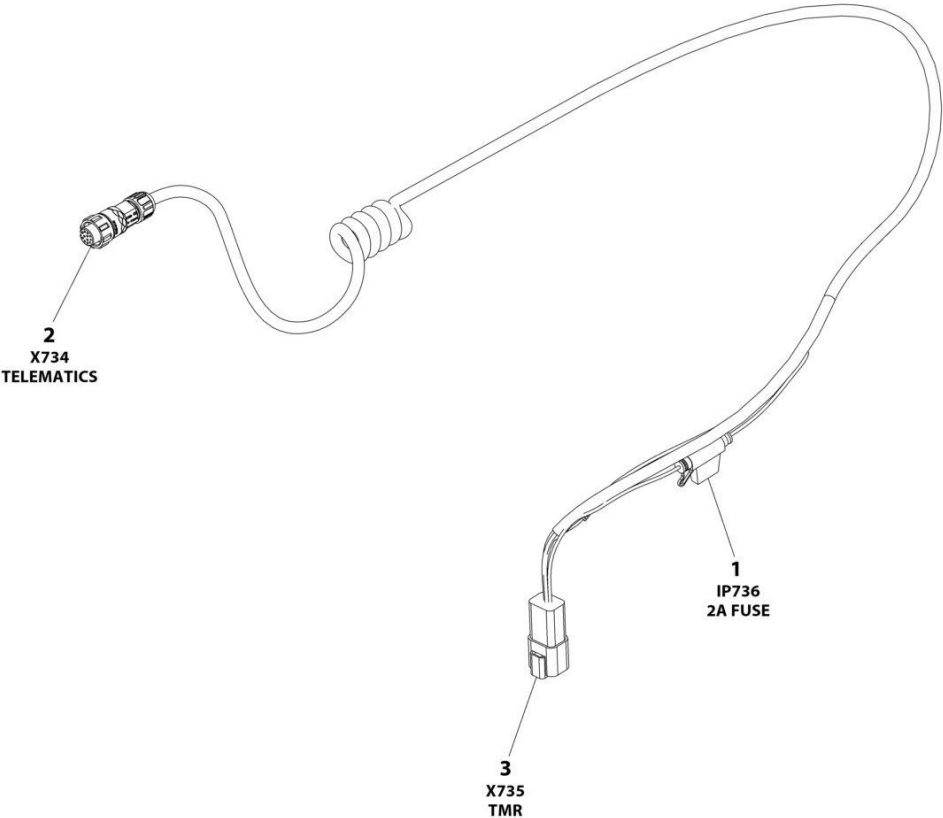
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FIGURE 10-20. CLEARSKY TELEMATICS 3-WIRE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001276920	Ref	CLEARSKY TELEMATICS 3-WIRE INSTALLATION	A
1	4240032	AR	Tie, Strap	
2	1001272659	1	Module - GT1030	
3	1001273012	1	ClearSky Telematics 3-Wire Harness (See Separate Breakdown in this Section)	

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FIGURE 10-21. CLEARSKY TELEMATICS 3-WIRE HARNESS



ART_1001273012

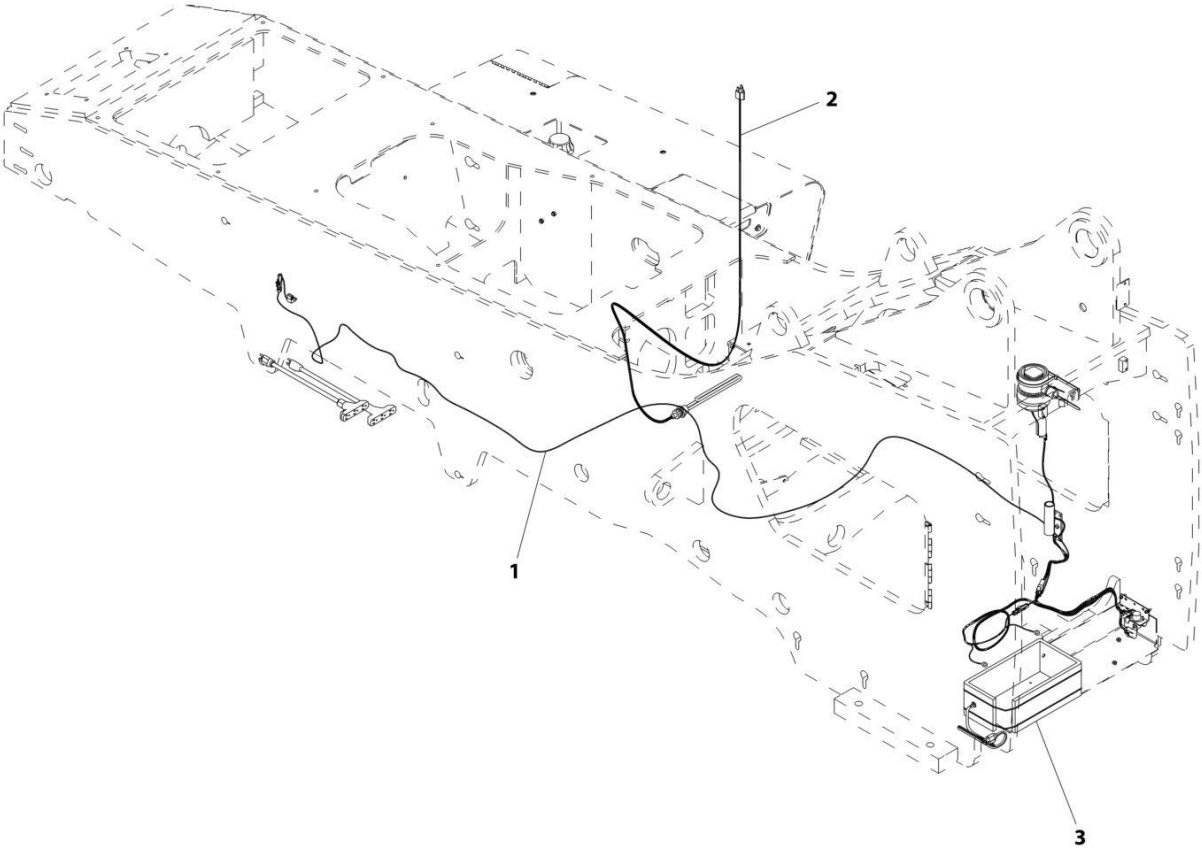
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FIGURE 10-21. CLEARSKY TELEMATICS 3-WIRE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001273012	Ref	CLEARSKY TELEMATICS HARNESS - GT1030	D
1	1001255901	1	Fuseholder	
1	1001196634	1	Fuse - 2Amp	
2	1001272997	1	Connector - 12 Position	
2		Ref	Terminal	
3	4460932	1	Receptacle, Female - 4 Position	
3	4460464	4	Pin, Male	

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FIGURE 10-22. COLD WEATHER PACKAGE INSTALLATION (74HP ULS)



ART_1001234530-A

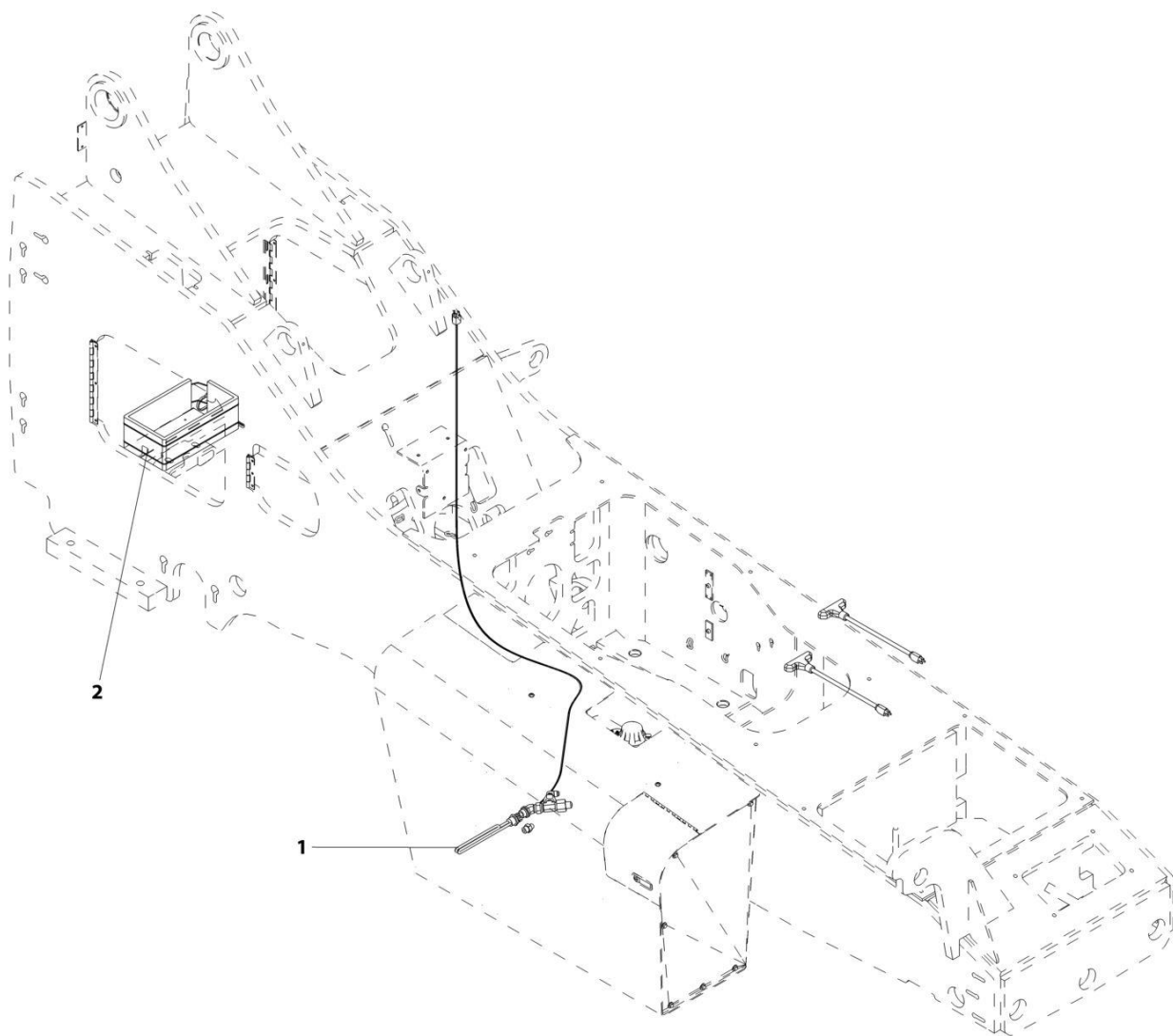
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FIGURE 10-22. COLD WEATHER PACKAGE INSTALLATION (74HP ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001234530	Ref	Arctic Weather Package Installation (ULS)	A
	1001232750	Ref	Heater, Breather (See Separate Breakdown in Engine And Attaching Parts Section)	
2	1001233964	Ref	Installation, Tank Heater (See Separate Breakdown in this Section)	
3	1001234216	Ref	Installation, Battery Blanket (See Separate Breakdown in this Section)	

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FIGURE 10-23. COLD WEATHER PACKAGE INSTALLATION (130HP LS)



ART_1001239958-A

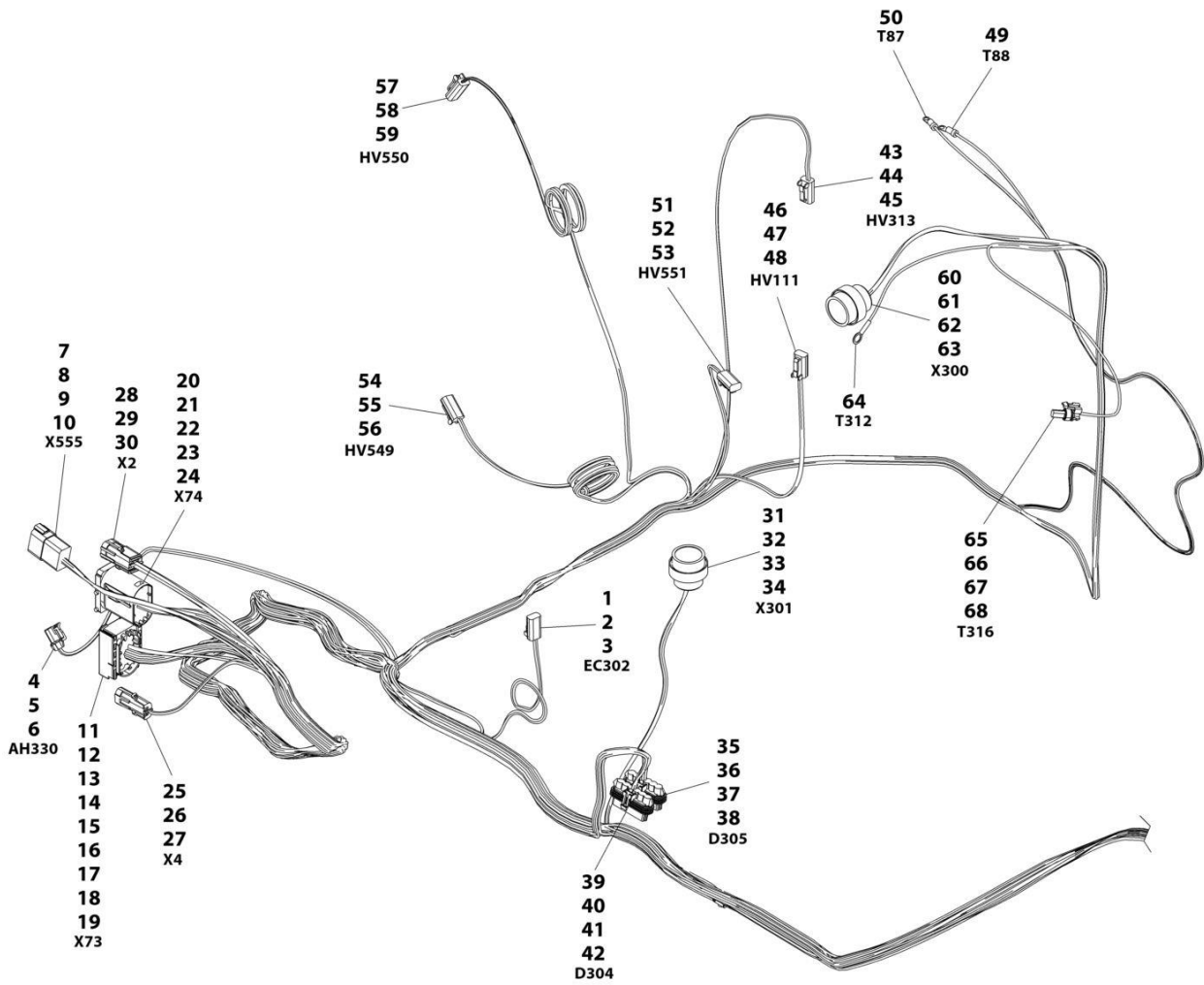
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FIGURE 10-23. COLD WEATHER PACKAGE INSTALLATION (130HP LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001239958	Ref	Arctic Weather Package Installation (LS)	A
	1001233964	Ref	Installation, Tank Heater (See Separate Breakdown in this Section)	
2	1001234216	Ref	Installation, Battery Blanket (See Separate Breakdown in this Section)	

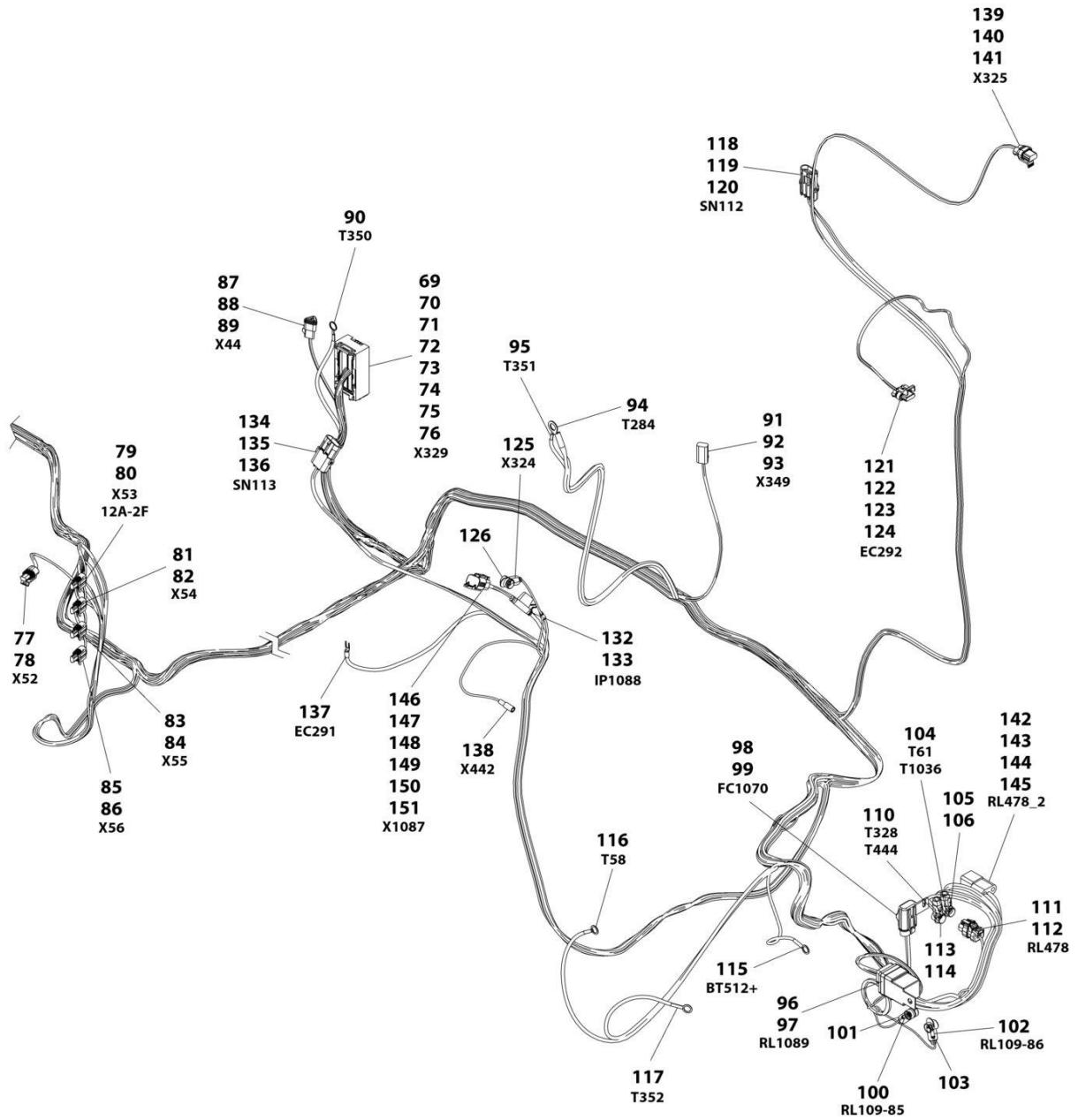
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FIGURE 10-24. ENGINE HARNESS, 74HP ULS



ART_1001199889_10F2

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ART_1001199889_2OF2

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FIGURE 10-24. ENGINE HARNESS, 74HP ULS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199889	Ref	ENGINE HARNESS 74HP (IF EQUIPPED FOR ULS)	I
1	4460891	1	Connector	
2	80604018	1	Lock, Wedge	
3	4460465	2	Terminal	
4	1001117068	1	Connector	
5	8220124	2	Terminal	
6	80963067	2	Seal	
6	4460608	2	Seal	
7	4460931	1	Connector	
8	91503106	1	Lock, Wedge	
9	4460464	4	Terminal	
10	4460466	4	Plug	
11	8220927	1	Connector	
12	70024256	1	Lock, Slide	
13	70024255	1	Seal, Connector	
14	70024254	1	Lock, Secondary	
15	8220097	10	Terminal	
16	4460458	10	Seal	
17	8220098	3	Terminal	
18	80963067	3	Seal	
19	1001116727	2	Plug	
20	8220929	1	Connector	
21	70024253	1	Lock, Secondary	
22	1001116745	1	Terminal	
23	1001116729	14	Terminal	
24	4460458	15	Seal	
25	4461157	1	Connector	
26	4460475	2	Terminal	
27	4460458	2	Seal	
28	80963062	1	Connector	
29	4460850	4	Terminal	
30	80963067	4	Seal	
31	8220536	1	Connector	
32	1001116758	12	Plug	
33	1001116757	4	Terminal	
34	1001189875	4	Seal	
35	4460744	1	Connector	
36	1001116728	4	Terminal	
37	1001116727	2	Plug	
38	8220081	4	Seal	
39	4460744	1	Connector	
40	1001116728	4	Terminal	
41	1001116727	2	Plug	
42	8220081	4	Seal	
43	4460891	1	Connector	
44	80604018	1	Lock, Wedge	
45	4460465	2	Terminal	
46	4460891	1	Connector	
47	80604018	1	Lock, Wedge	
48	4460465	2	Terminal	

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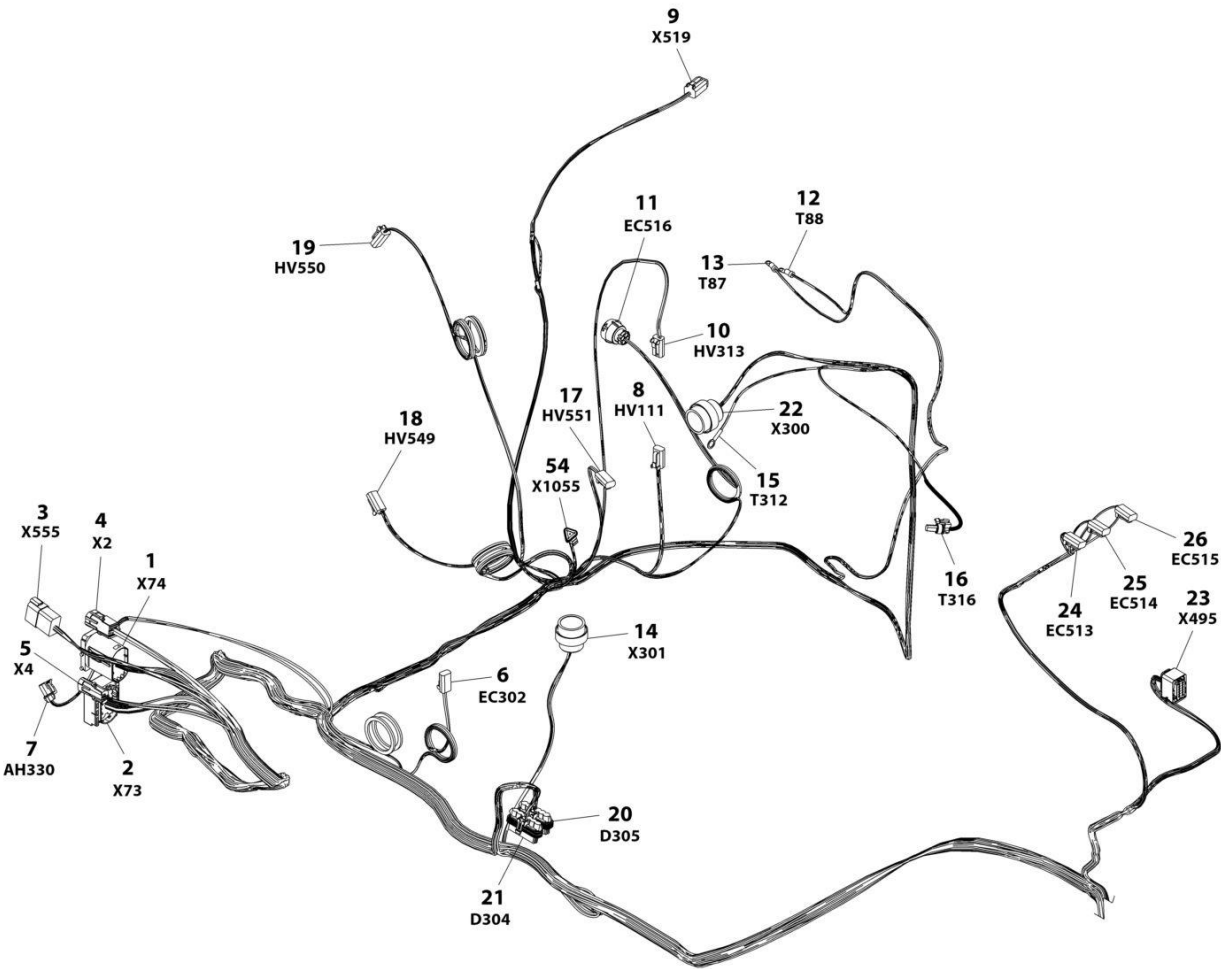
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	4460042	1	Terminal, Ring	
50	4460042	1	Terminal, Ring	
51	4460891	1	Connector	
52	80604018	1	Lock, Wedge	
53	4460465	2	Terminal	
54	4460891	1	Connector	
55	80604018	1	Lock, Wedge	
56	4460465	2	Terminal	
57	4460891	1	Connector	
58	80604018	1	Lock, Wedge	
59	4460465	2	Terminal	
60	8220536	1	Connector	
61	1001116757	4	Terminal	
62	1001116758	12	Plug	
63	1001189875	4	Seal	
64	4460256	1	Terminal, Ring	
65	1001119004	1	Connector	
66	8220889	1	Lock, Secondary	
67	1001116728	1	Terminal	
68	4460458	1	Seal	
69	1001167641	1	Connector	
70	1001167643	1	Cover	
71	1001167644	1	Lock, Secondary	
72	1001167646	1	Lock, Secondary	
73	1001167647	1	Boot, Rubber	
74	1001167648	10	Terminal	
75	1001167650	75	Plug	
76	1001167649	11	Terminal	
77	4460955	1	Connector	
78	1001116748	2	Terminal	
79	4460955	1	Connector	
80	1001116748	2	Terminal	
81	4460955	1	Connector	
82	1001116748	2	Terminal	
83	4460955	1	Connector	
84	1001116748	2	Terminal	
85	4460955	1	Connector	
86	1001116748	2	Terminal	
87	4461095	1	Connector	
88	4460465	2	Terminal	
89	4460466	1	Plug	
90	4460019	1	Terminal, Ring	
91	4460891	1	Connector	
92	80604018	1	Lock, Wedge	
93	4460465	2	Terminal	
94	8220164	2	Terminal, Ring	
95	4460019	1	Terminal, Ring	
96	1001145707	1	Connector	
97	1001116732	4	Terminal	
98	1001117070	1	Connector	
99	1001116734	2	Terminal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100	4460247	1	Terminal, Ring	
101	1001195057	1	Red Boot	
102	4460247	1	Terminal, Ring	
103	1001195055	1	Red Boot	
104	4460312	1	Terminal, Ring	
105	4460312	1	Terminal, Ring	
106	1001195087	1	Red Boot	
110	4460312	1	Terminal, Ring	
111	1001116950	1	Connector	
112	4460465	2	Terminal	
113	4460312	2	Terminal, Ring	
114	1001195087	1	Red Boot	
115	4460019	1	Terminal, Ring	
115	4460312	1	Terminal, Ring	
116	4460019	1	Terminal, Ring	
117	4460019	1	Terminal, Ring	
118	4460476	1	Connector	
119	4460475	3	Terminal	
120	4460458	3	Seal	
121	1001125027	1	Connector	
122	70026217	1	Lock, Secondary	
123	8220124	3	Terminal	
124	4460608	3	Seal	
125	8220058	1	Terminal, Ring	
126	1001195055	1	Red Boot	
132	2400060	1	Fuse Holder	
133	8229242	1	Fuse 5A	
134	4460476	1	Connector	
135	4460475	3	Terminal	
136	4460458	3	Seal	
137	1001117111	1	Terminal, Fork	
138	1001117125	1	Terminal, Snap Plug	
138	1001246391	1	Terminal, Snap Plug	
139	1001117021	1	Connector	
140	1001116728	2	Terminal	
141	8220081	2	Seal	
142	1001117103	1	Connector	
143	7026404	1	Lock, Connector	
144	1001121730	2	Terminal	
145	8220160	2	Seal	
146	4460884	1	Connector	
147	80604021	1	Lock, Wedge	
148	1001157890	1	Terminal	
149	1001116692	2	Terminal	
150	4460466	1	Plug	
151	1001192401	1	Dust Cap	

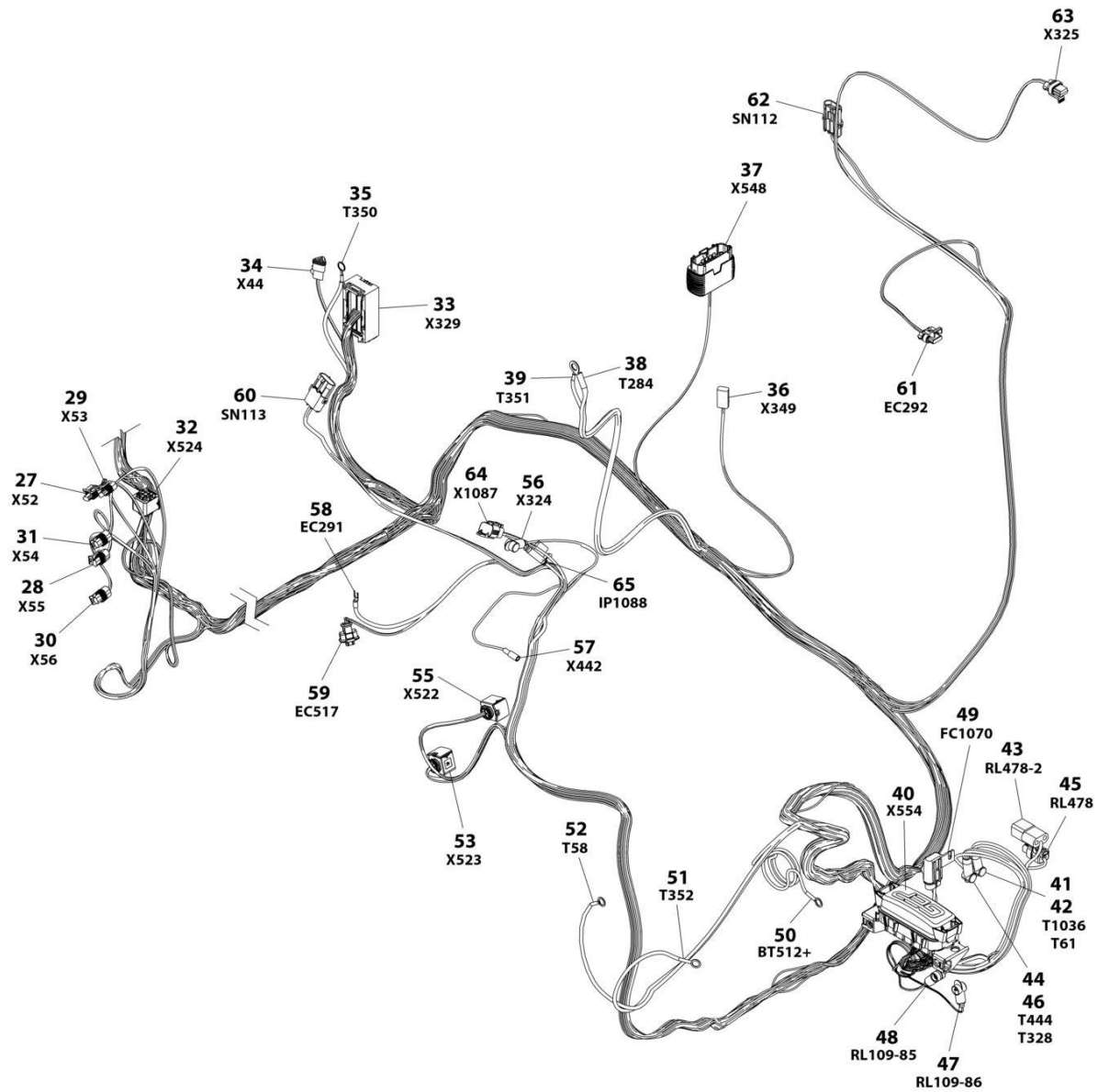
SECTION 10 - ELECTRICAL

FIGURE 10-25. ENGINE HARNESS - 130HP ULS



ART_1001169620_1OF2

SECTION 10 - ELECTRICAL



ART_1001169620_20F2

SECTION 10 - ELECTRICAL

FIGURE 10-25. ENGINE HARNESS - 130HP ULS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001169620	Ref	ENGINE HARNESS	O
	8220929	1	Connector	
	70024253	1	Lock, Secondary	
	1001116745	1	Terminal	
	4460458	14	Seal	
	1001116729	13	Terminal	
	1001116727	1	Plug	
2	8220927	1	Connector	
	70024256	1	Lock, Slide	
	70024255	1	Seal, Connector	
	70024254	1	Lock, Secondary	
	8220097	11	Terminal	
	4460458	11	Seal	
	8220098	3	Terminal	
	80963067	3	Seal	
3	1001116727	1	Plug	
	4460931	1	Connector	
	80604024	1	Lock, Wedge	
	4460464	6	Terminal	
4	4460466	2	Plug	
	80963062	1	Connector	
	4460850	4	Terminal	
5	80963067	4	Seal	
	4461157	1	Connector	
	4460475	2	Terminal	
6	4460458	2	Seal	
	4460891	1	Connector	
	80604018	1	Lock, Wedge	
7	4460465	2	Terminal	
	1001117068	1	Connector	
	8220124	2	Terminal	
8	80963067	2	Seal	
	4460608	2	Seal	
	4460891	1	Connector	
9	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
	4460884	1	Connector	
10	80604021	1	Lock, Wedge	
	4460465	4	Terminal	
	4460891	1	Connector	
11	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
	4460458	2	Seal	
12	1001167620	1	Connector	
	1001176004	2	Terminal	
	1001167624	2	Plug	
13	1001176002	2	Seal	
	4460042	1	Terminal, Ring	
	4460042	1	Terminal, Ring	
14	8220536	1	Connector	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001116757	12	Terminal	
	1001116758	3	Plug	
	1001189875	4	Seal	
15	4460256	1	Terminal, Ring	
16	1001119004	1	Connector	
	8220889	1	Lock, Secondary Terminal	
	1001116728	1	Terminal	
	4460458	1	Seal	
	4460891	1	Connector	
17	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
18	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
	4460891	1	Connector	
19	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
20	4460744	1	Connector	
	1001116728	4	Terminal	
	8220081	4	Seal	
	4460458	4	Seal	
	8220375	1	CAP,EXTENDED CLEAR VES-PAC	
	8220366	1	Diode Board Flyback	
	1001116727	2	Plug	
21	4460744	1	Connector	
	1001116728	4	Terminal	
	8220081	4	Seal	
	4460458	4	Seal	
	1001116727	2	Plug	
	8220366	1	Diode Board Flyback	
	8220375	1	CAP,EXTENDED CLEAR VES-PAC	
	8220536	1	Connector	
22	1001116757	4	Terminal	
	1001116758	12	Plug	
	1001189875	4	Seal	
	1001165194	1	Connector	
23	1001166556	10	Terminal	
	1001126391	2	Terminal	
	1001126393	10	Seal	
24	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
25	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
26	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
27	4460955	1	Connector	
	1001116748	2	Terminal	
28	4460955	1	Connector	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
29	1001116748	2	Terminal	
	4460955	1	Connector	
30	1001116748	2	Terminal	
	4460955	1	Connector	
31	1001116748	2	Terminal	
	4460955	1	Connector	
32	1001116748	2	Terminal	
	1001176935	1	Connector	
33	1001166704	4	Terminal	
	4461006	4	Seal	
	1001167641	1	Connector	
	1001167643	1	Cover	
	1001167644	1	Lock, Secondary	
	1001167646	1	Relief, Strain	
	1001167647	1	Boot, Rubber	
	1001167648	12	Terminal	
	1001167650	54	Plug	
	1001167649	30	Terminal	
34	4461095	1	Connector	
	4461070	1	Attach Mating Connector	
	4460465	2	Terminal	
	4460466	1	Terminal	
35	4460019	1	Terminal, Ring	
36	4460891	1	Connector	
	80604018	1	Lock, Wedge	
37	4460465	2	Terminal	
	1001125083	1	Connector	
	1001125085	1	Terminal	
	1001125089	1	Terminal	
38	8220164	2	Terminal, Ring	
39	4460019	1	Terminal, Ring	
40	1001167617	1	Connector	
	4460746	22	Terminal	
	1001116727	24	Plug	
	1001189877	2	Seal	
	8220089	1	Seal	
	4460458	19	Seal	
	8220125	2	Terminal	
	80963067	2	Seal	
	1001187512	1	Decal	
	1001187513	1	Decal	
	1001095704	5	Relay	
	8229244	2	Fuse, 15 Amp	
	4460312	2	Terminal, Ring	
	1001195087	1	Red Boot	
42	4460312	1	Terminal, Ring	
43	1001117103	1	Connector	
	7026404	1	Lock, Connector	
	1001121730	2	Terminal	
44	8220160	2	Seal	
	4460312	1	Terminal, Ring	

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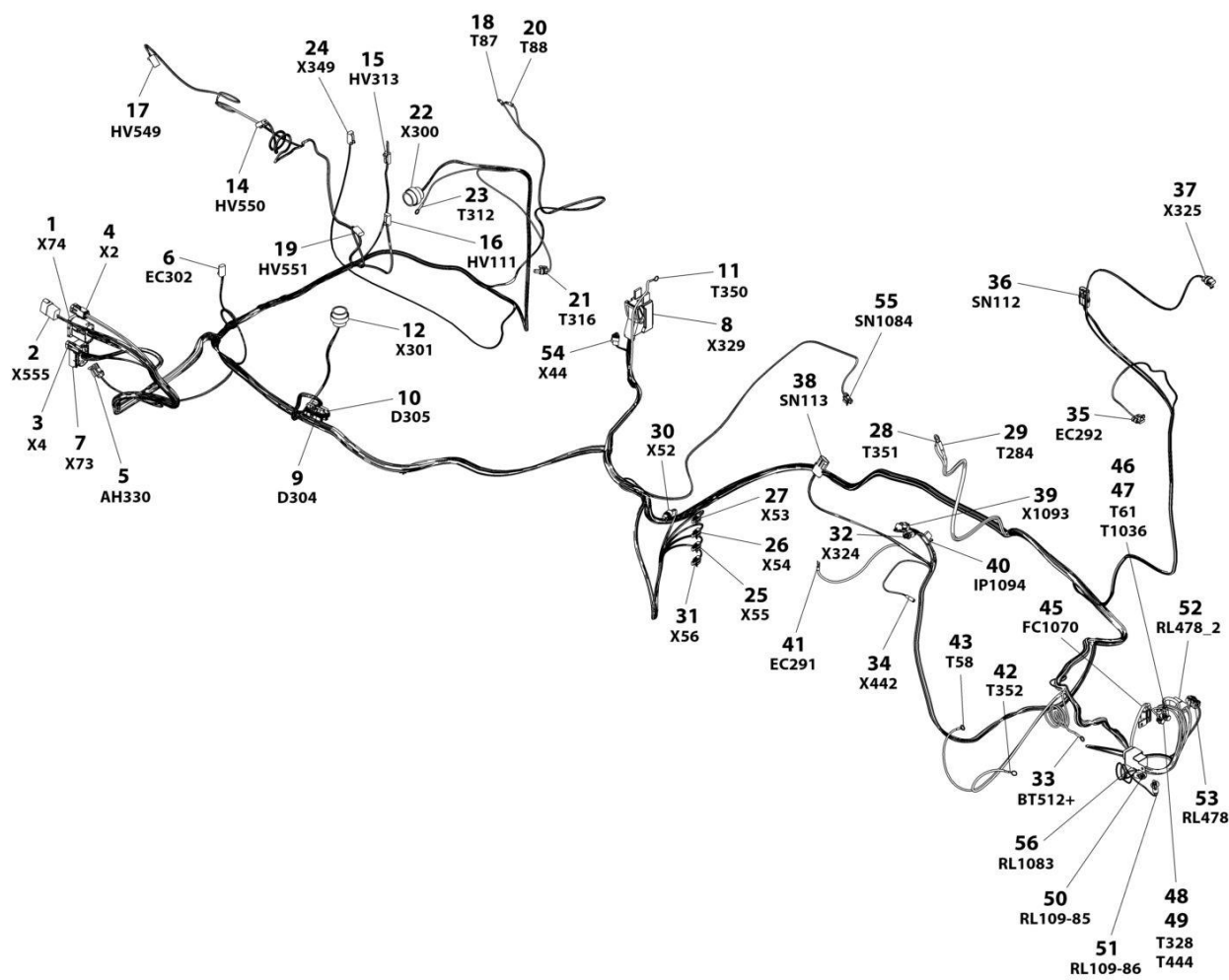
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	1001116950	1	Connector	
	4460465	2	Terminal	
	1001118390	2	Terminal	
46	4460312	2	Terminal, Ring	
	1001195087	1	Red Boot	
47	4460247	1	Terminal, Ring	
	1001195055	1	Red Boot	
48	4460247	1	Terminal, Ring	
	1001195087	1	Black Boot	
49	1001117070	1	Connector	
	1001116734	2	Terminal	
50	4460312	1	Terminal, Ring	
	4460019	1	Terminal, Ring	
51	4460019	1	Terminal, Ring	
52	4460019	1	Terminal, Ring	
53	1001176935	1	Connector	
	1001166704	4	Terminal	
	4461006	4	Seal	
54	4461095	1	Connector	
	4461070	1	Attach Mating Connector	
	4460465	2	Terminal	
	4460466	1	Plug	
55	1001167528	1	Connector	
	1001166704	4	Terminal	
	4461006	4	Seal	
56	8220058	1	Terminal, Ring	
	1001195055	1	Red Boot	
57	1001117125	1	Terminal, Snap Plug	
	1001246391	1	Terminal, Snap Plug	
58	1001117111	1	Terminal, Fork	
59	1001126487	1	Connector	
	1001126484	2	Terminal	
	4461006	2	Seal	
60	4460476	1	Connector	
	4460475	3	Terminal	
	4460458	3	Seal	
61	1001125027	1	Connector	
	70026217	1	Lock, Secondary	
	8220124	3	Terminal	
	4460608	3	Seal	
	1001237778	3	Seal	
62	4460476	1	Connector	
	4460475	3	Terminal	
	4460458	3	Seal	
63	1001117021	1	Connector	
	1001116728	2	Terminal	
	8220081	2	Seal	
64	4460884	1	Connector	
	1001192401	1	Dust Cap	
	1001157890	1	Terminal	
	1001116692	2	Terminal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
65	4460466	1	Plug	
	2400066	1	Connector	
	2400060	1	Fuseholder	
	8229242	1	Fuse, 5 Amp	

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FIGURE 10-26. ENGINE HARNESS 130HP LS



ART_1001189488

SECTION 10 - ELECTRICAL

FIGURE 10-26. ENGINE HARNESS 130HP LS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189488	Ref	ENGINE HARNESS	K
1	8220929	1	Connector	
	1001116745	1	Terminal	
	1001116729	14	Terminal	
	4460458	15	Seal	
2	4460931	1	Connector	
	80604024	1	Lock, Wedge	
	4460464	4	Terminal	
	4460466	4	Plug	
3	4461157	1	Connector	
	4460475	2	Terminal	
	4460458	2	Seal	
4	80963062	1	Connector	
	4460850	4	Terminal	
	80963067	4	Seal	
5	1001117068	1	Connector	
	8220124	2	Terminal	
	80963067	2	Seal	
6	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
7	8220927	1	Connector	
	8220097	12	Terminal	
	8220098	2	Terminal	
	1001116727	1	Plug	
	4460458	11	Seal	
	80963067	2	Seal	
	1001189877	1	Seal	
8	1001133173	1	Connector	
	1001138643	6	Terminal	
	1001126356	77	Terminal	
	1001138642	8	Terminal	
	1001126351	3	Terminal	
	1001126353	6	Seal	
9	4460744	1	Connector	
	1001116728	4	Terminal	
	1001116727	2	Plug	
	8220081	4	Seal	
10	4460744	1	Connector	
	1001116728	4	Terminal	
	1001116727	2	Plug	
	8220081	4	Seal	
11	4460019	1	Terminal, Ring	
12	8220536	1	Connector	
	1001116758	12	Plug	
	1001116757	4	Terminal	
	1001189875	4	Seal	
14	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	

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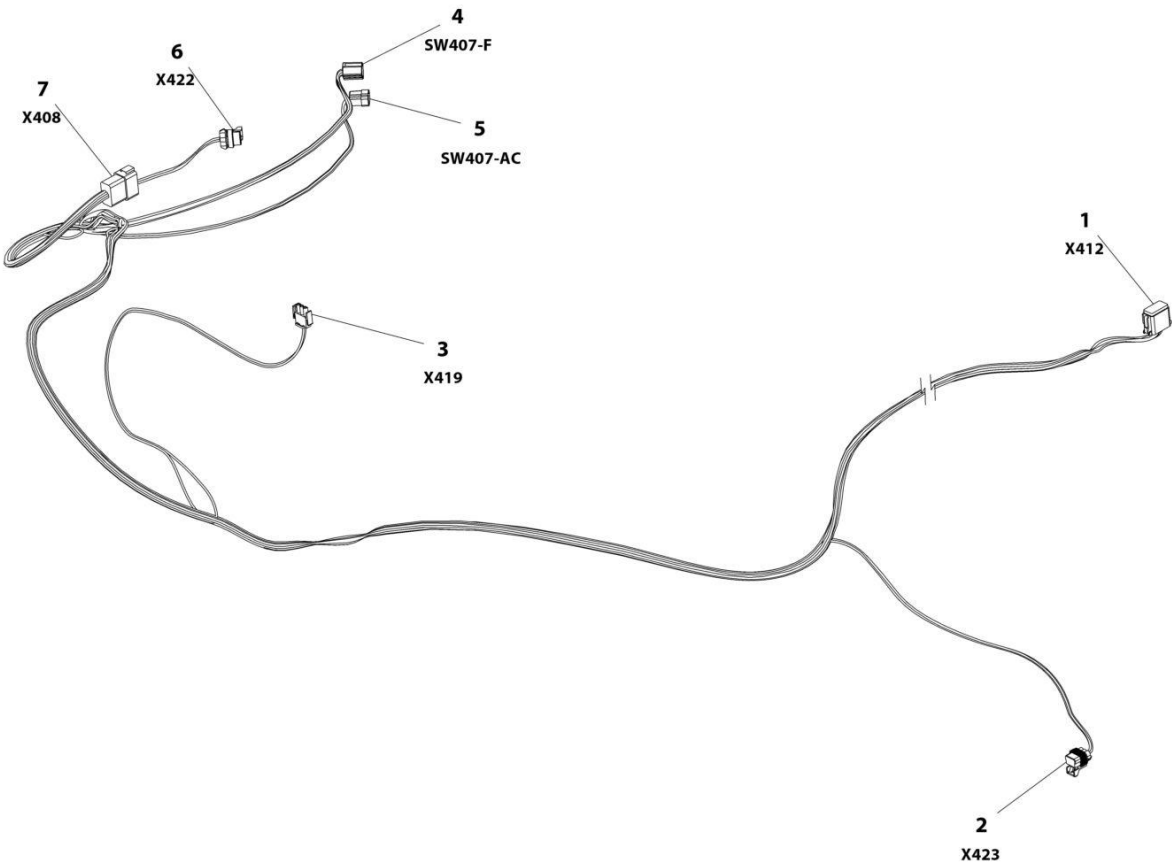
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
15	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
16	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
17	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
18	4460042	1	Terminal, Ring	
19	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
20	4460042	1	Terminal, Ring	
21	1001119004	1	Connector	
	1001116728	1	Terminal	
	4460458	1	Seal	
22	8220536	1	Connector	
	1001116757	4	Terminal	
	1001116758	12	Plug	
	1001189875	4	Seal	
23	4460256	1	Terminal, Ring	
24	4460891	1	Connector	
	80604018	1	Lock, Wedge	
	4460465	2	Terminal	
25	4460955	1	Connector	
	1001116748	2	Terminal	
26	4460955	1	Connector	
	1001116748	2	Terminal	
27	4460955	1	Connector	
	1001116748	2	Terminal	
28	4460019	1	Terminal, Ring	
29	8220164	1	Terminal, Ring	
30	4460955	1	Connector	
	1001116748	2	Terminal	
31	4460955	1	Connector	
	1001116748	2	Terminal	
32	8220058	1	Terminal, Ring	
33	4460019	1	Terminal, Ring	
34	1001117125	1	Terminal, Snap Plug	
35	1001125027	1	Connector	
	8220124	3	Terminal	
	4460608	3	Seal	
	4460476	1	Connector	
36	4460475	3	Terminal	
	4460458	3	Seal	
	1001117021	1	Connector	
37	1001116728	2	Terminal	
	8220081	2	Seal	
38	4460476	1	Connector	
	4460475	3	Terminal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
39	4460458	3	Seal	
	4460884	1	Connector	
	80604021	1	Lock, Wedge	
	4460465	3	Terminal	
	4460466	1	Plug	
40	1001192401	1	Dust Cap	
	2400060	1	Fuse Holder	
41	4460142	1	Connector	
	1001117111	1	Terminal	
42	4460019	1	Terminal, Ring	
43	4460019	1	Terminal, Ring	
45	1001117070	1	Connector	
	1001116734	2	Terminal	
46	4460312	1	Terminal, Ring	
	1001195087	1	Red Boot	
47	4460312	2	Terminal, Ring	
48	4460312	2	Terminal, Ring	
	1001195087	1	Red Boot	
49	4460312	1	Terminal, Ring	
50	4460247	1	Terminal, Ring	
	1001195057	1	Black Boot	
51	4460247	1	Terminal, Ring	
	1001195055	1	Red Boot	
52	1001117103	1	Connector	
	1001121730	2	Terminal	
53	1001116950	1	Connector	
	4460465	2	Terminal	
54	4461095	1	Plug	
	4461070	1	Connector	
	4460465	2	Terminal	
	4460466	1	Terminal	
	1001209097	1	Connector	
55	8220124	2	Terminal	
	1001145707	1	Connector	
	1001116732	4	Terminal	

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FIGURE 10-27. HVAC HARNESS



ART_1001178347-E

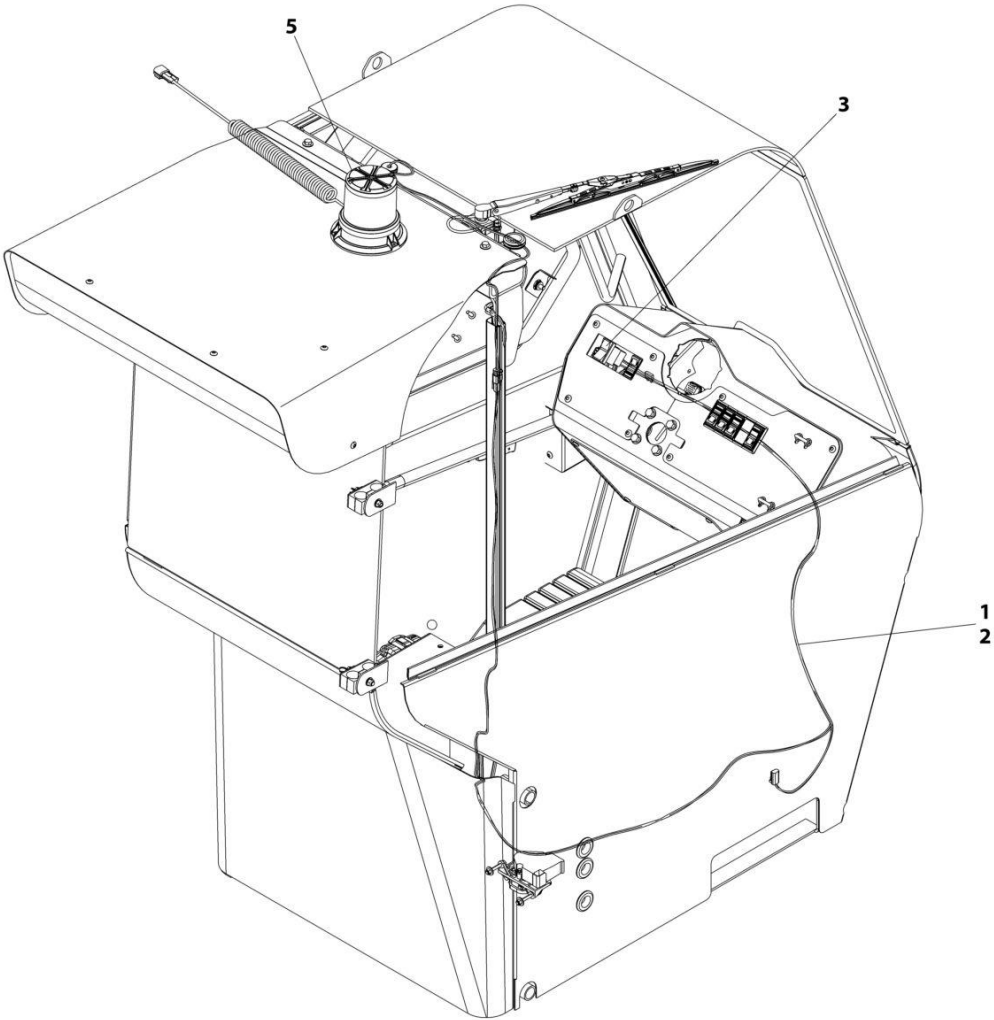
SECTION 10 - ELECTRICAL

FIGURE 10-27. HVAC HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001178347	Ref	HVAC Harness	E
	4460933	1	Connector	
	80604016	1	Lock, Wedge	
	4460942	9	Terminal	
	4460465	2	Terminal	
	4460466	1	Terminal	
2	8220895	1	Connector	
	70026216	1	Lock, Secondary	
	8220124	3	Terminal	
	1001116751	3	Terminal, Plug	
3	4460326	1	Connector	
	4460268	2	Terminal	
4	1001117080	1	Connector	
	1001116723	5	Terminal	
5	1001117059	1	Connector	
	1001116736	3	Terminal	
6	1001125027	1	Connector	
	70026217	1	Lock, Secondary	
	8220124	3	Terminal	
7	4460950	1	Connector	
	80363179	1	Lock, Wedge	
	1001157891	5	Terminal	
	4460464	6	Terminal	
	4460466	1	Terminal	

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FIGURE 10-28. LIGHTS - BEACON INSTALLATION (ENCLOSED CAB)



ART_1001161213_G

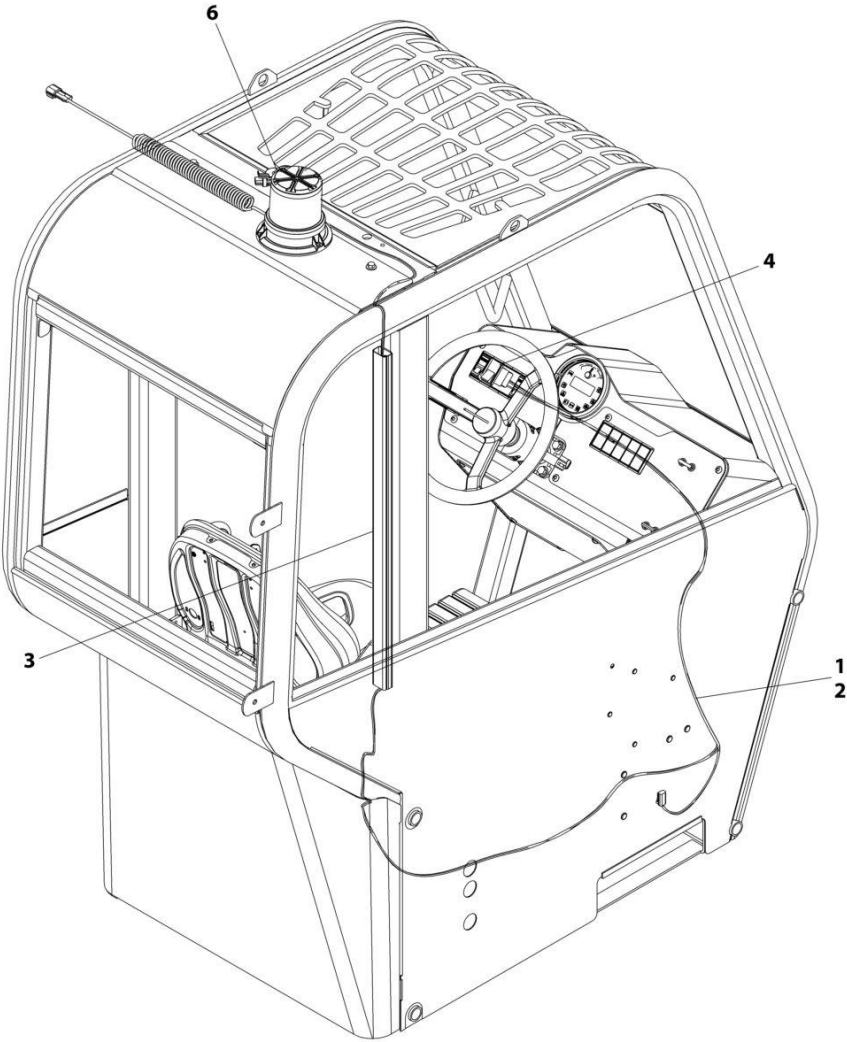
SECTION 10 - ELECTRICAL

FIGURE 10-28. LIGHTS - BEACON INSTALLATION (ENCLOSED CAB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161213	Ref	LIGHTS - BEACON LIGHT INSTALLATION (ENCLOSED CAB)	G
1	0100009	AR	Sealant	
2	1001178345	1	Harness, Beacon Option (See Separate Breakdown in this Section)	
3	8223038	1	Switch, Beacon	
5	1001271586	1	Light, Rotating Beacon	

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FIGURE 10-29. LIGHTS - BEACON INSTALLATION (OPEN CAB)



ART_1001161212_I

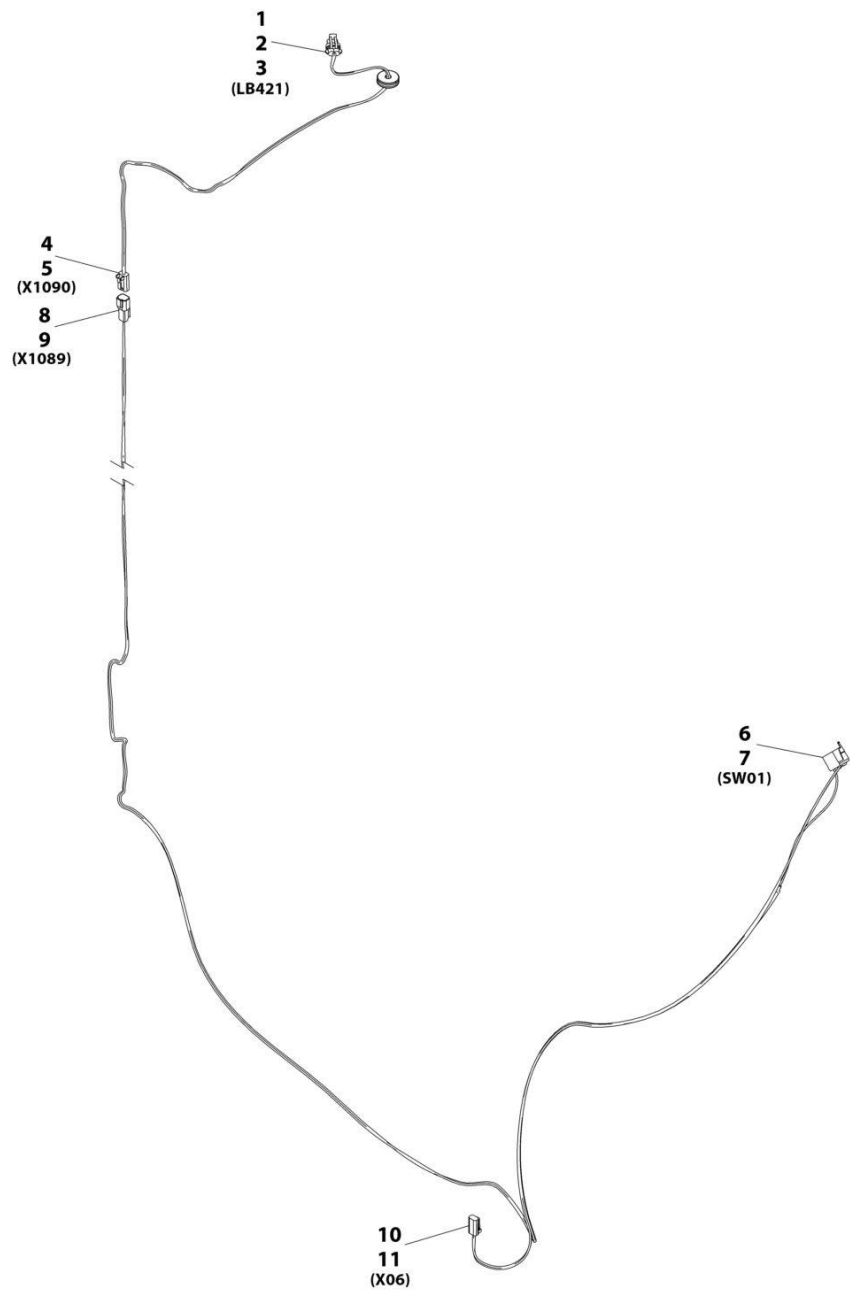
SECTION 10 - ELECTRICAL

FIGURE 10-29. LIGHTS - BEACON INSTALLATION (OPEN CAB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161212	Ref	LIGHTS - BEACON LIGHT INSTALLATION (OPEN CAB)	I
1	0100009	AR	Sealant	
2	1001178345	1	Harness, Beacon Option (See Separate Breakdown in this Section)	
3	1001182091	1	Duct, Upper Wire	
4	8223038	1	Switch, Beacon	
6	1001271586	1	Light, Rotating Beacon	

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FIGURE 10-30. LIGHTS - BEACON OPTION HARNESS



ART_1001178345-H

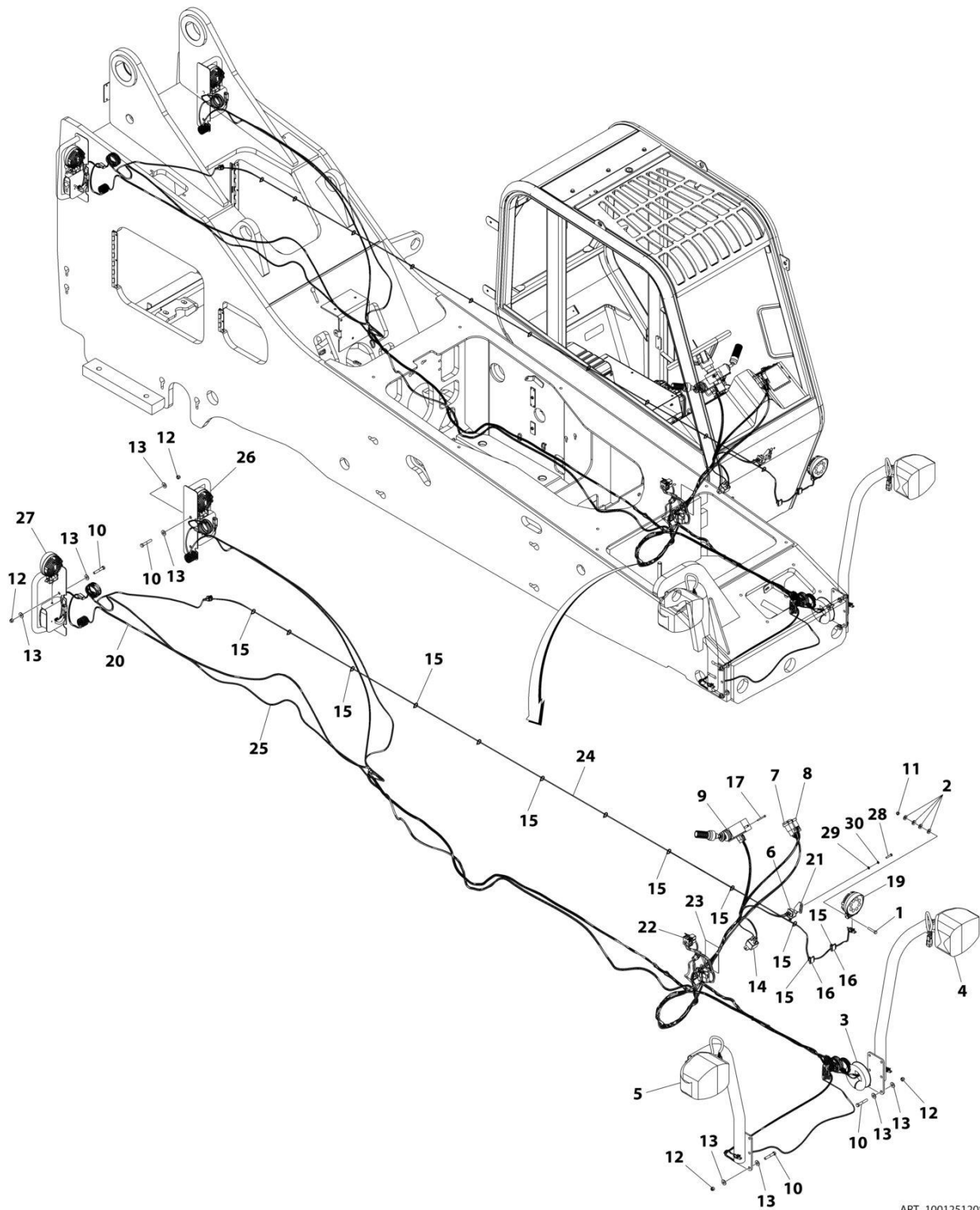
SECTION 10 - ELECTRICAL

FIGURE 10-30. LIGHTS - BEACON OPTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178345	Ref	Beacon Option Harness	H
1	1001117021	1	Connector	
2	1001116728	2	Terminal	
3	4460458	2	Seal	
4	4460891	1	Connector	
5	4460465	2	Terminal	
6	8220904	1	Connector	
7	4460419	5	Terminal	
8	4460897	1	Connector	
9	4460464	2	Terminal	
10	4460891	1	Connector	
11	4460465	2	Terminal	

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FIGURE 10-31. ROADLIGHT PACKAGE INSTALLATION



ART_1001251208

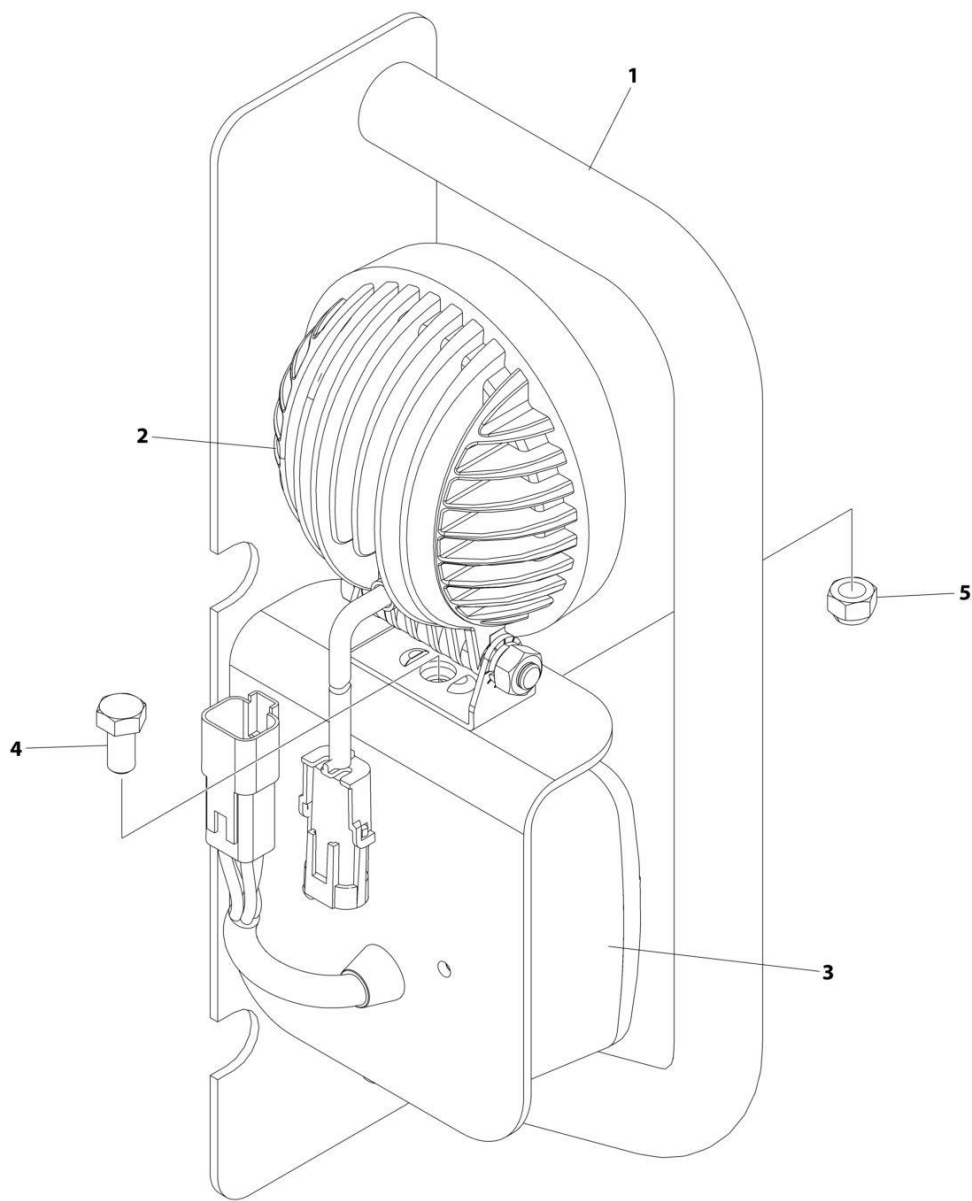
SECTION 10 - ELECTRICAL

FIGURE 10-31. ROADLIGHT PACKAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251208	Ref	ROADLIGHT PACKAGE INSTALLATION	B
1	0641514	1	Bolt 5/16 x 1-3/4	
2	4891600	4	Washer 3/8	
3	7124471	1	Conduit 1 x 12.5	
4	7150699	1	Assembly, LH Roadlight Bracket (See Separate Breakdown in this Section)	
5	7150716	1	Assembly, RH Roadlight Bracket (See Separate Breakdown in this Section)	
6	8223025	1	Switch, Brake Lights	
7	8223059	1	Switch, Work Light	
8	8223060	1	Switch, Hazard	
9	8223073	1	Control, Turn Signal	
10	8303771	10	Bolt 3/8 x 2-1/4	
11	8305626	1	Nut 5/16	
12	8305645	10	Nut 3/8	
13	8307204	20	Washer 3/8	
14	8500203	1	Flasher, Hazard Warning 12V	
15	8584001	AR	Wrap, Tie	
16	8584018	2	Mount, Cable Tie	
17	88211516	2	Screw M10	
19	1001176337	1	Lamp, LED Worklight	
20	1001178346	1	Harness, Road Light Option (See Separate Breakdown in this Section)	
21	1001201752	1	Bracket, Brake Switch	
22	1001205248	1	Harness, Roadlight Worklight (See Separate Breakdown in this Section)	
23	1001205264	1	Decal, Light Fuse Panel	
24	1001238111	1	Harness, Boom Worklight (See Separate Breakdown in this Section)	
25	1001238199	1	Harness, Work Light Option (See Separate Breakdown in this Section)	
26	1001251270	1	Assembly, LH Roadlight (See Separate Breakdown in this Section)	
27	1001251271	1	Assembly, RH Roadlight (See Separate Breakdown in this Section)	
28	0700614	2	Bolt M6 x 30	
29	4811700	2	Washer M6	
30	4831700	2	Washer M6	

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FIGURE 10-32. LIGHTS - ROADLIGHT ASSEMBLY (LH)



ART_1001251270

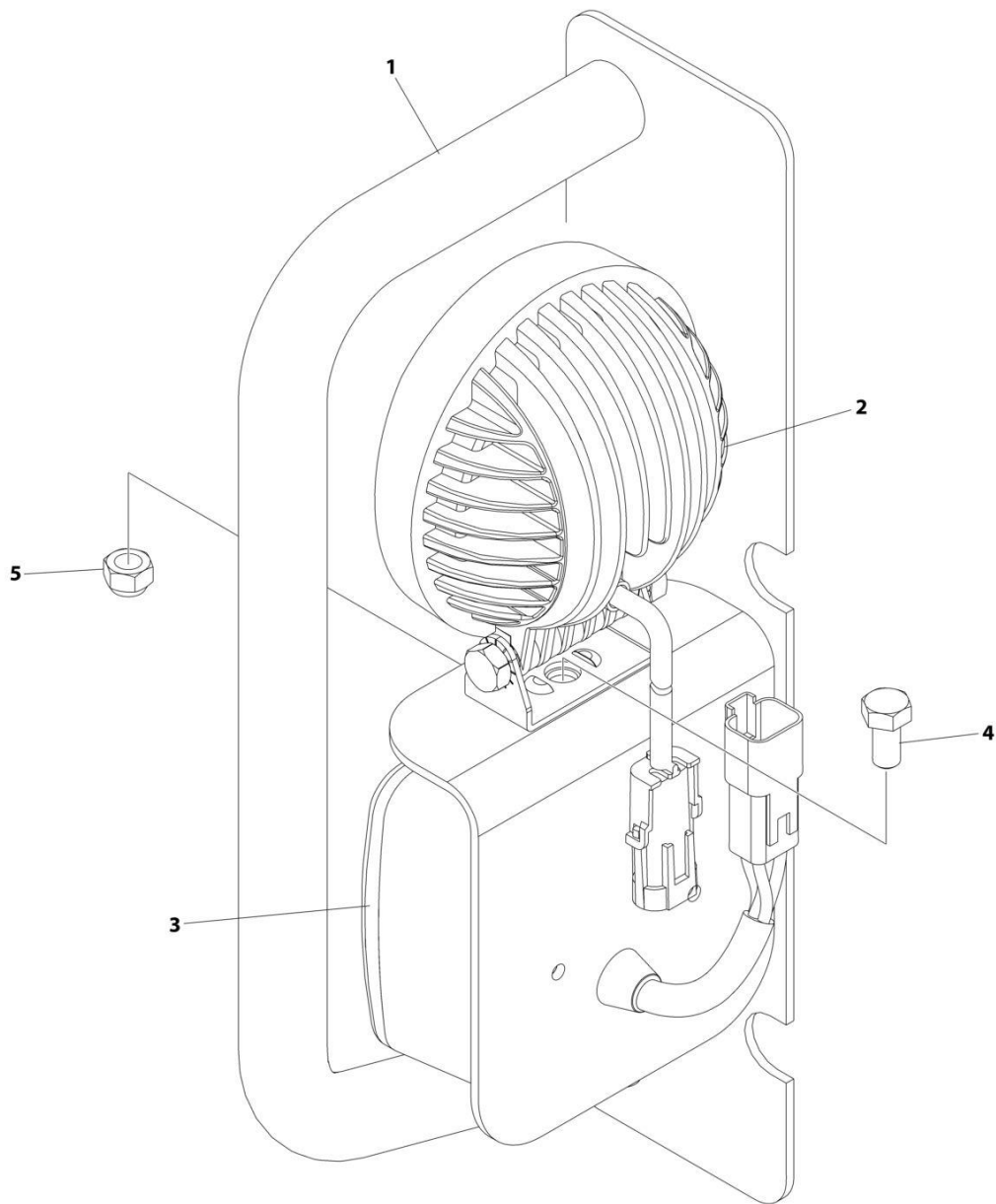
SECTION 10 - ELECTRICAL

FIGURE 10-32. LIGHTS - ROADLIGHT ASSEMBLY (LH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251270	Ref	LH ROADLIGHT ASSEMBLY	A
1	7150681	1	Assembly, LH Roadlight Bracket	
2	1001176337	1	Lamp, LED Worklight	
3	7150690	1	Light, Tail/Indicator	
4	8303745	1	Bolt 5/16 x 5/8	
5	8305626	1	Nut 5/16	

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FIGURE 10-33. LIGHTS - ROADLIGHT ASSEMBLY (RH)



ART_1001251271

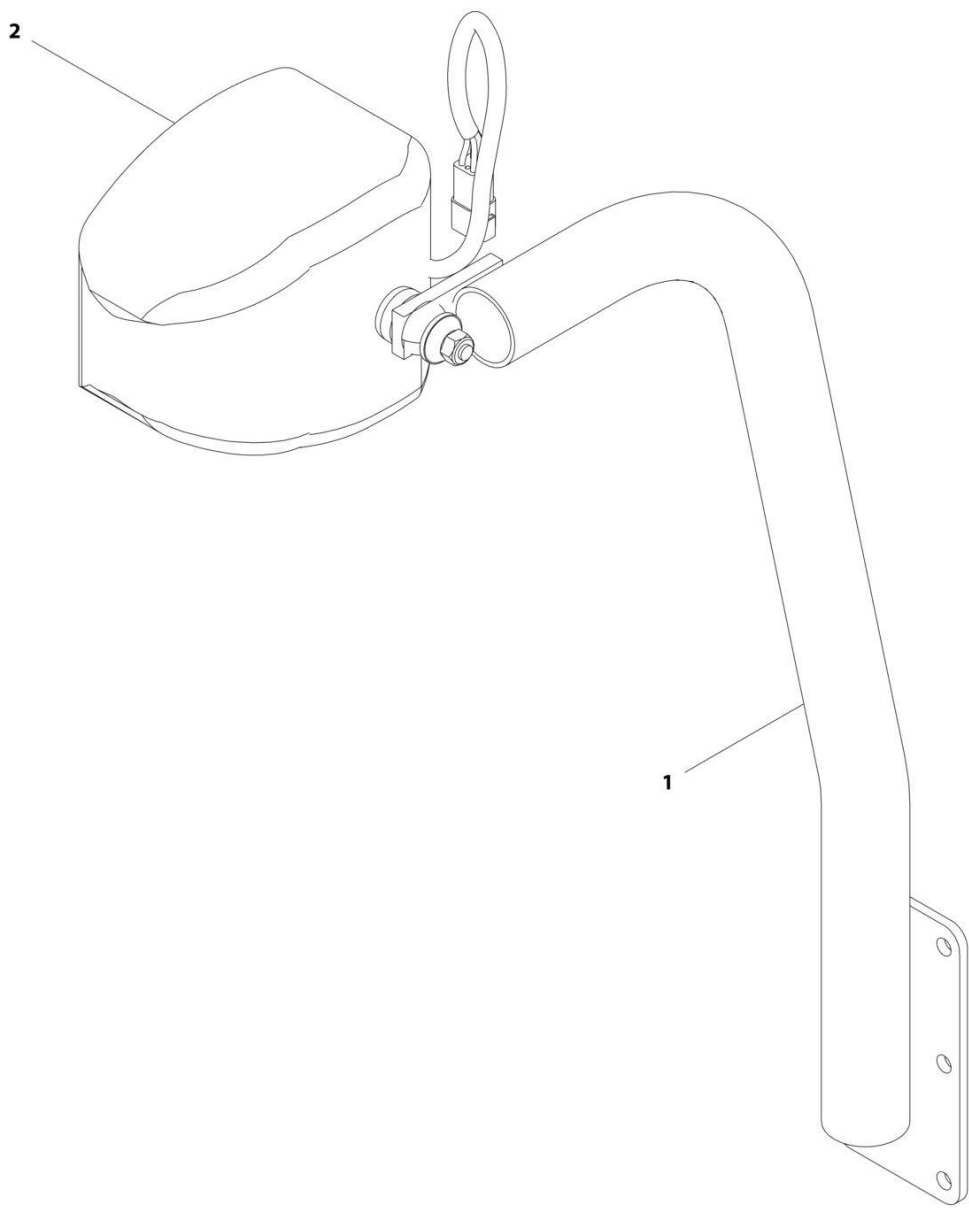
SECTION 10 - ELECTRICAL

FIGURE 10-33. LIGHTS - ROADLIGHT ASSEMBLY (RH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251271	Ref	RH ROADLIGHT ASSEMBLY	A
1	7150680	1	Assembly, RH Roadlight Bracket	
2	1001176337	1	Lamp, LED Worklight	
3	7150690	1	Light, Tail/Indicator	
4	8303745	1	Bolt 5/16 x 5/8	
5	8305626	1	Nut 5/16	

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FIGURE 10-34. LIGHTS - ROADLIGHT BRACKET ASSEMBLY (LH)



ART_7150699-B

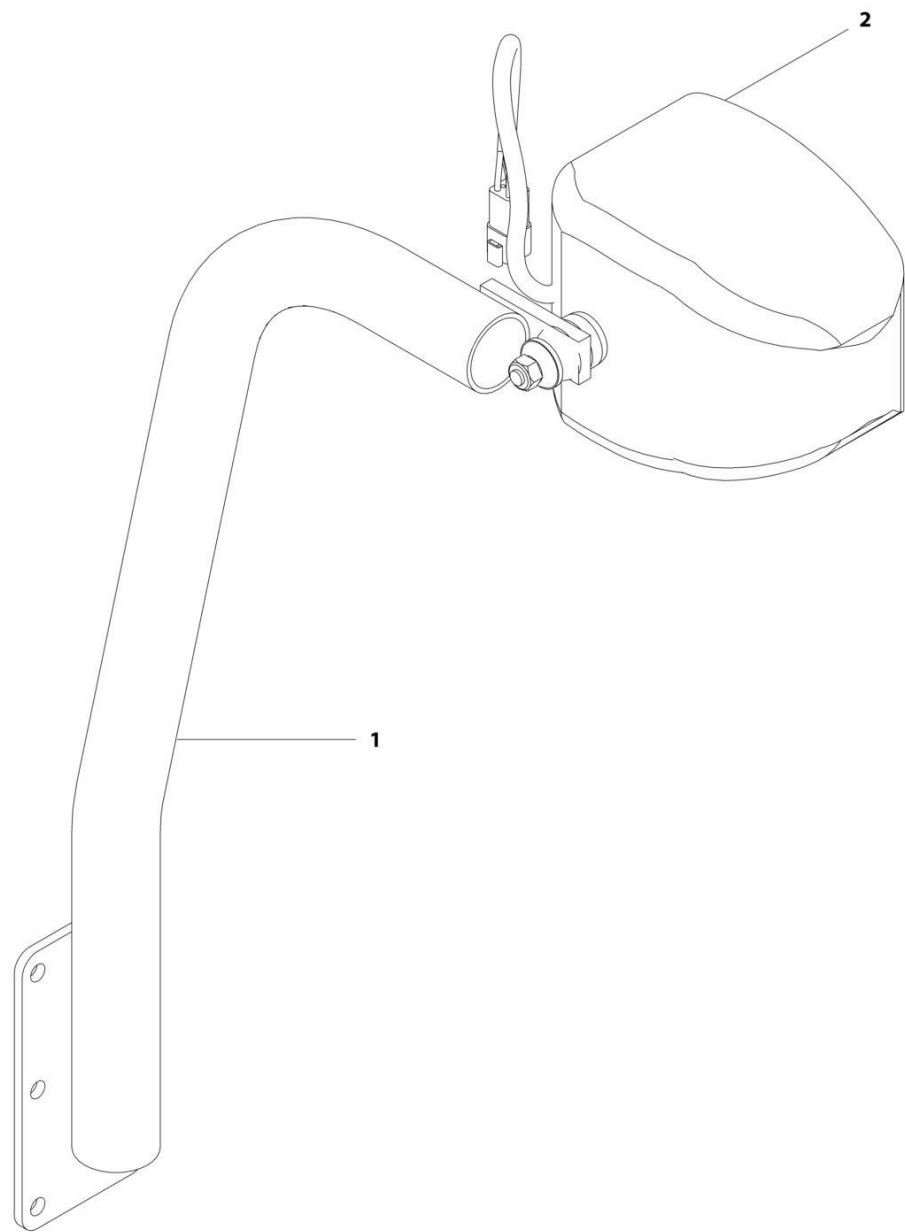
SECTION 10 - ELECTRICAL

FIGURE 10-34. LIGHTS - ROADLIGHT BRACKET ASSEMBLY (LH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7150699	Ref	LH Roadlight Bracket Assembly	B
1	7150685	1	Bracket, LH Roadlight	
2	7150702	1	Roadlight, LH Front	
2	8036216	6	Screw, Headlight Lens	
2	8036212	1	Lens, Headlight	
2	8036213	1	Bulb, Headlight 12V, 60/55W	
2	8036214	1	Bulb, Blinker 12V, 5W	
2	8036215	1	Harness, Wiring (includes 6-way connector)	
2	8036209	1	Lens, Left Amber Headlight	

SECTION 10 - ELECTRICAL

FIGURE 10-35. LIGHTS - ROADLIGHT BRACKET ASSEMBLY (RH)



ART_7150716-B

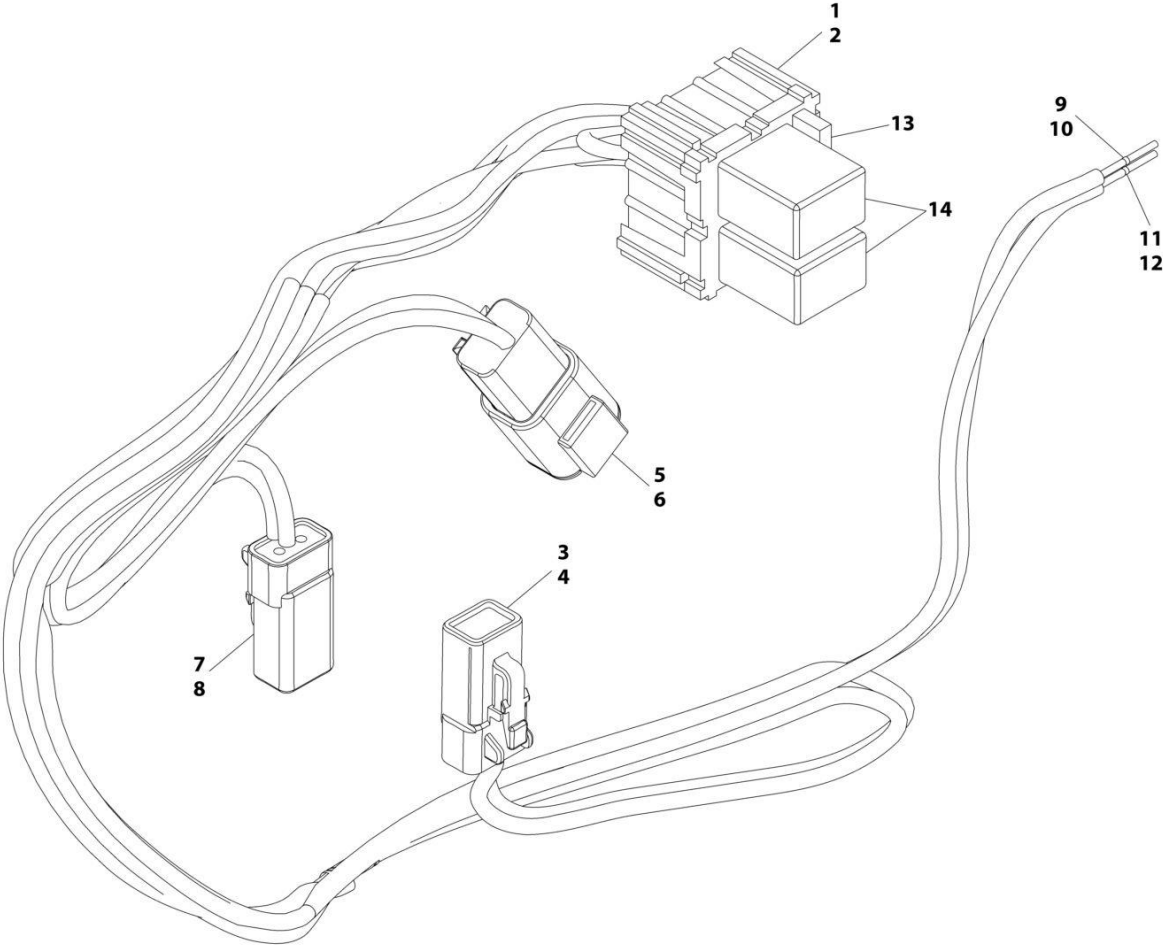
SECTION 10 - ELECTRICAL

FIGURE 10-35. LIGHTS - ROADLIGHT BRACKET ASSEMBLY (RH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7150716	Ref	RH Roadlight Bracket Assembly	B
1	7150717	1	Bracket, RH Roadlight	
2	7150703	1	Roadlight, LH Front	
2	8036210	1	Lens, Right Amber Headlight	
2	8036216	6	Screw, Headlight Lens	
2	8036212	1	Lens, Headlight	
2	8036213	1	Bulb, Headlight, 12V, 60/55W	
2	8036214	1	Bulb, Blinker 12V, 5W	
2	8036215	1	Harness, Wiring (includes 6-way connector)	

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FIGURE 10-36. LIGHTS - ROADLIGHT WORKLIGHT HARNESS



ART_1001205248_A

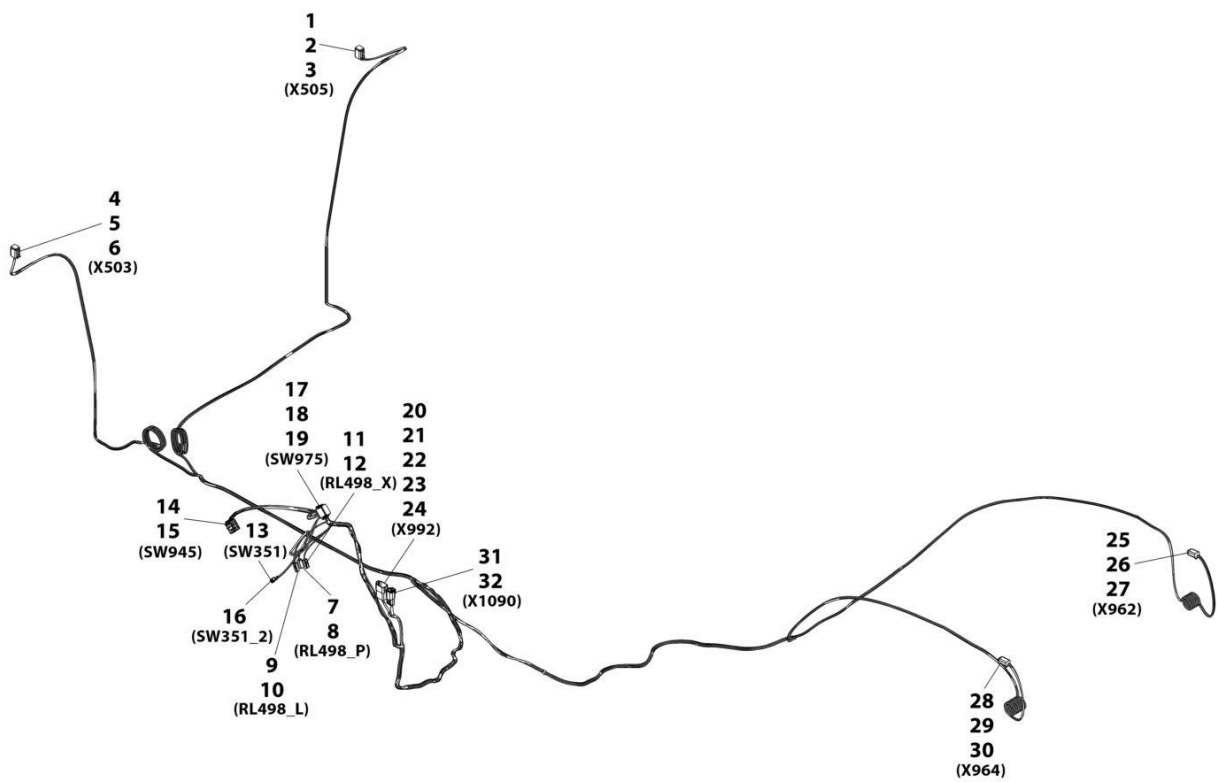
SECTION 10 - ELECTRICAL

FIGURE 10-36. LIGHTS - ROADLIGHT WORKLIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001205248	Ref	Roadlight Worklight Harness	A
1	1001177198	1	Connector	
2	1001116712	12	Terminal	
3	4461018	1	Connector	
4	4460509	2	Terminal	
5	4461017	1	Connector	
6	4460508	2	Terminal	
7	4461018	1	Connector	
8	4460509	2	Terminal	
9	4460790	1	Terminal, Socket	
10	8220089	1	Seal	
11	4460790	1	Terminal, Socket	
12	8220089	1	Seal	
13	8229245	2	Fuse 30Amp	
14	1001205172	2	Relay	

SECTION 10 - ELECTRICAL

FIGURE 10-37. LIGHTS - ROADLIGHT OPTION HARNESS



ART_1001178346-H

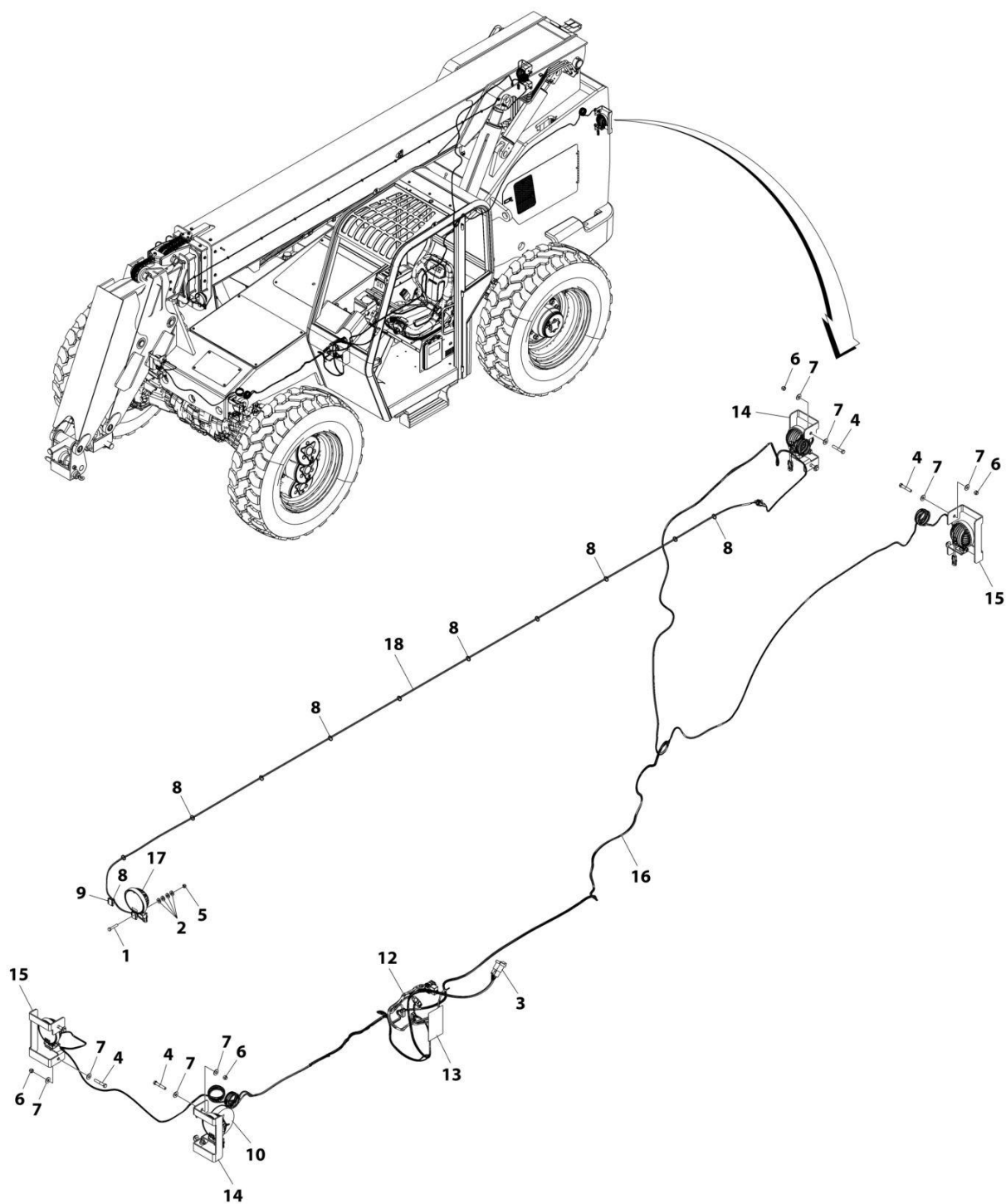
SECTION 10 - ELECTRICAL

FIGURE 10-37. LIGHTS - ROADLIGHT OPTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178346	Ref	ROAD LIGHT OPTION HARNESS	H
1	4460894	1	Connector	
2	4460465	5	Terminal	
3	4460466	1	Plug	
4	4460894	1	Connector	
5	4460465	5	Terminal	
6	4460466	1	Plug	
7	7116572	1	Connector	
8	1001116736	1	Terminal	
9	7116572	1	Connector	
10	1001116736	1	Terminal	
11	7116572	1	Connector	
12	1001116736	1	Terminal	
13	8220051	1	Terminal, Ring	
14	1001117079	1	Connector	
15	4460419	9	Terminal	
16	8220051	1	Terminal, Ring	
17	4460933	1	Connector	
18	4460465	8	Terminal	
19	4460466	4	Plug	
20	4460931	1	Connector	
21	4460466	3	Plug	
22	4460464	2	Terminal	
23	1001157891	2	Terminal	
24	4460941	1	Terminal	
25	4460884	1	Connector	
26	4460465	3	Terminal	
27	4460942	1	Terminal	
28	4460884	1	Connector	
29	4460465	3	Terminal	
30	4460942	1	Terminal	
31	4461017	1	Connector	
32	4460508	2	Terminal	

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FIGURE 10-38. LIGHTS - WORKLIGHT PACKAGE INSTALLATION (LED)



ART_1001237847

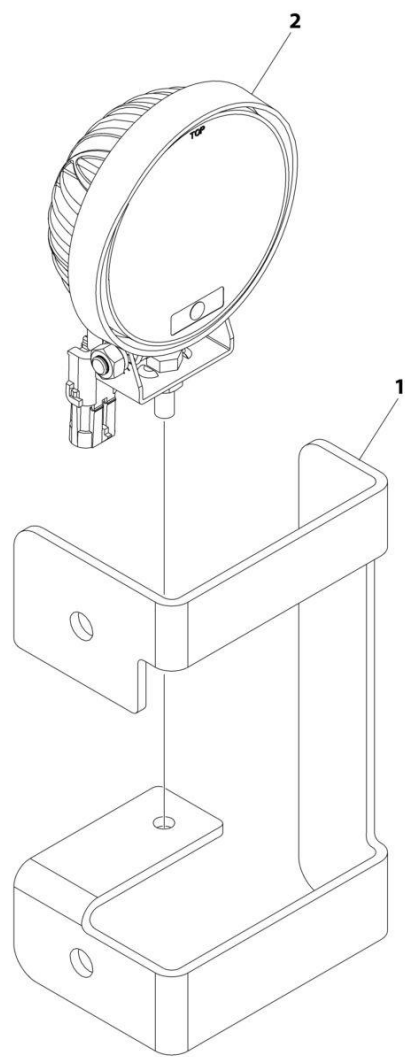
SECTION 10 - ELECTRICAL

FIGURE 10-38. LIGHTS - WORKLIGHT PACKAGE INSTALLATION (LED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237847	Ref	LIGHTS - LED WORK LIGHT PACKAGE INSTALLATION	C
1	0641514	1	Bolt 5/16 x 1-3/8	
2	4891600	AR	Washer 3/8	
3	8223059	1	Switch, Work Light	
4	8303771	8	Bolt 3/8 x 2-1/4	
5	8305626	1	Nut 5/16	
6	8305645	8	Nut 3/8	
7	8307204	16	Washer 3/8	
8	8584001	AR	Wrap, Tie	
9	8584018	4	Mount, Tie-Strap	
10	7124471	1	Conduit, 1 x 12.5	
11	88501005	AR	Nut 5/16	
12	1001205248	1	Harness, Roadlight Worklight (See Separate Breakdown in this Section)	
13	1001205264	1	Decal, Light Fuse Panel	
14	1001237853	2	Assembly, LED RH Worklight (See Separate Breakdown in this Section)	
15	1001237854	2	Assembly, LED LH Worklight (See Separate Breakdown in this Section)	
16	1001238199	1	Harness, Work Light Option (See Separate Breakdown in this Section)	
17	1001176337	1	Lamp, LED Worklight	
18	1001238111	1	Harness, Boom Worklight (See Separate Breakdown in this Section)	

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FIGURE 10-39. LIGHTS - WORKLIGHT ASSEMBLY - LED (RH)



ART_1001237853

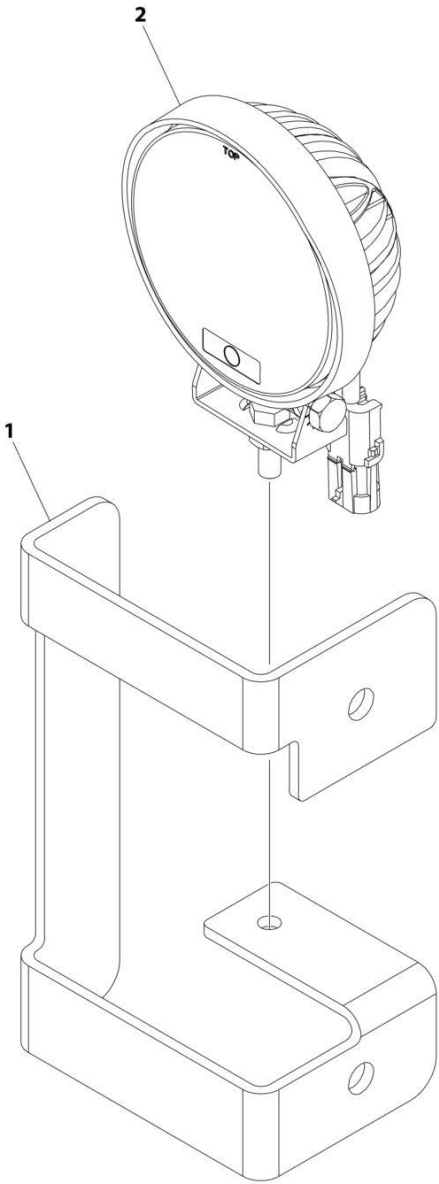
SECTION 10 - ELECTRICAL

FIGURE 10-39. LIGHTS - WORKLIGHT ASSEMBLY - LED (RH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237853	Ref	LIGHTS - WORK LIGHT ASSEMBLY - LED (RH)	A
1	1001097079	1	Bracket, RH Worklight Mount	
2	1001176337	1	Lamp, LED Worklight	

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FIGURE 10-40. LIGHTS - WORKLIGHT ASSEMBLY - LED (LH)



ART_1001237854

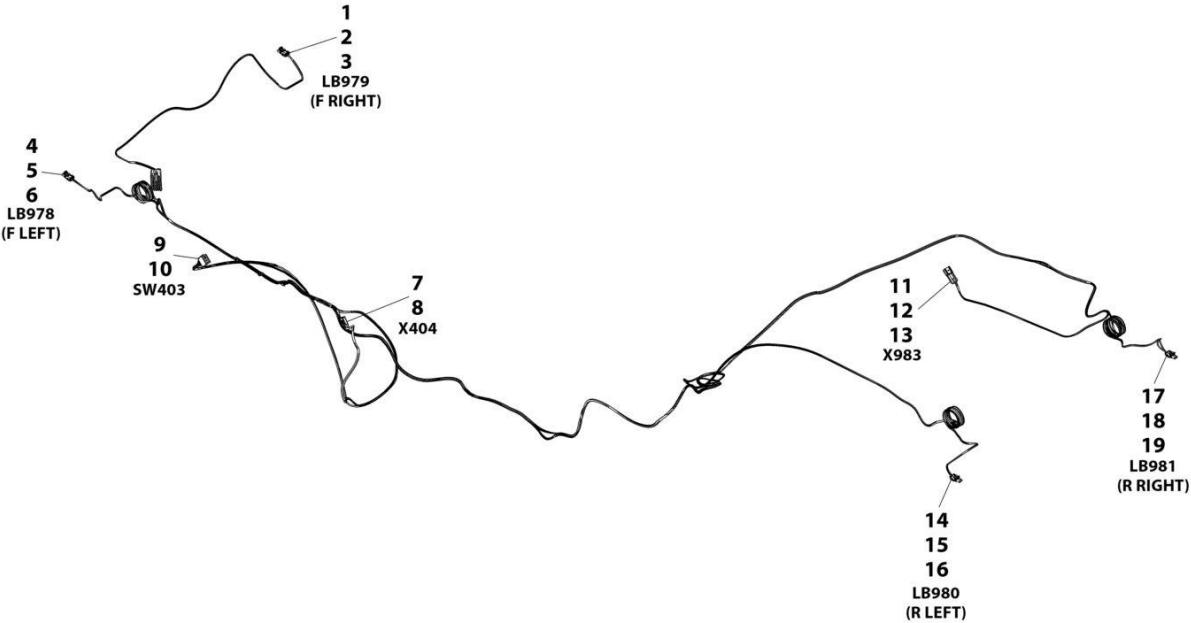
SECTION 10 - ELECTRICAL

FIGURE 10-40. LIGHTS - WORKLIGHT ASSEMBLY - LED (LH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237854	Ref	LIGHTS - WORK LIGHT ASSEMBLY - LED (LH)	A
1	1001097080	1	Bracket, LH Worklight Mount	
2	1001176337	1	Lamp, LED Worklight	

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FIGURE 10-41. LIGHTS - WORK LIGHT OPTION HARNESS



ART_1001238199-A

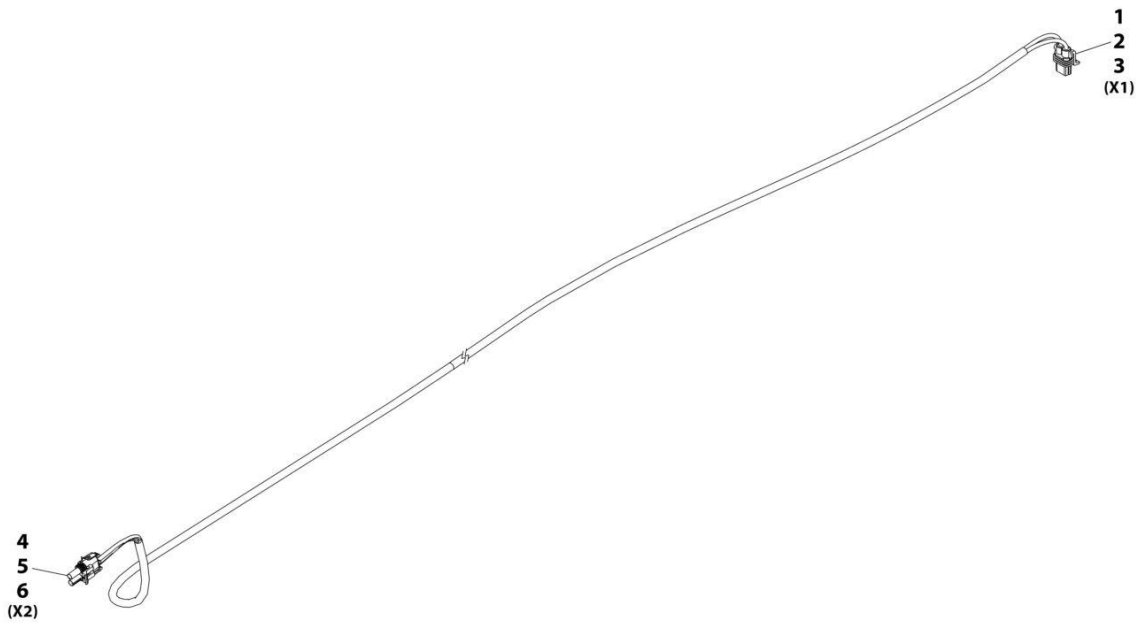
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FIGURE 10-41. LIGHTS - WORK LIGHT OPTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238199	Ref	Work Lighting Option Harness	A
1	4460742	1	Connector	
2	4460457	2	Terminal	
3	4460789	2	Seal	
4	4460742	1	Connector	
5	4460457	2	Terminal	
6	4460789	2	Seal	
7	4461018	1	Connector	
8	4460509	2	Terminal	
9	8220904	1	Connector	
10	4460419	6	Terminal	
11	1001117026	1	Connector	
12	1001116729	2	Terminal	
13	8220081	2	Seal	
14	4460742	1	Connector	
15	4460457	2	Terminal	
16	4460789	2	Seal	
17	4460742	1	Connector	
18	4460457	2	Terminal	
19	4460457	2	Seal	

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FIGURE 10-42. LIGHTS - WORKLIGHT BOOM HARNESS



ART_1001238111

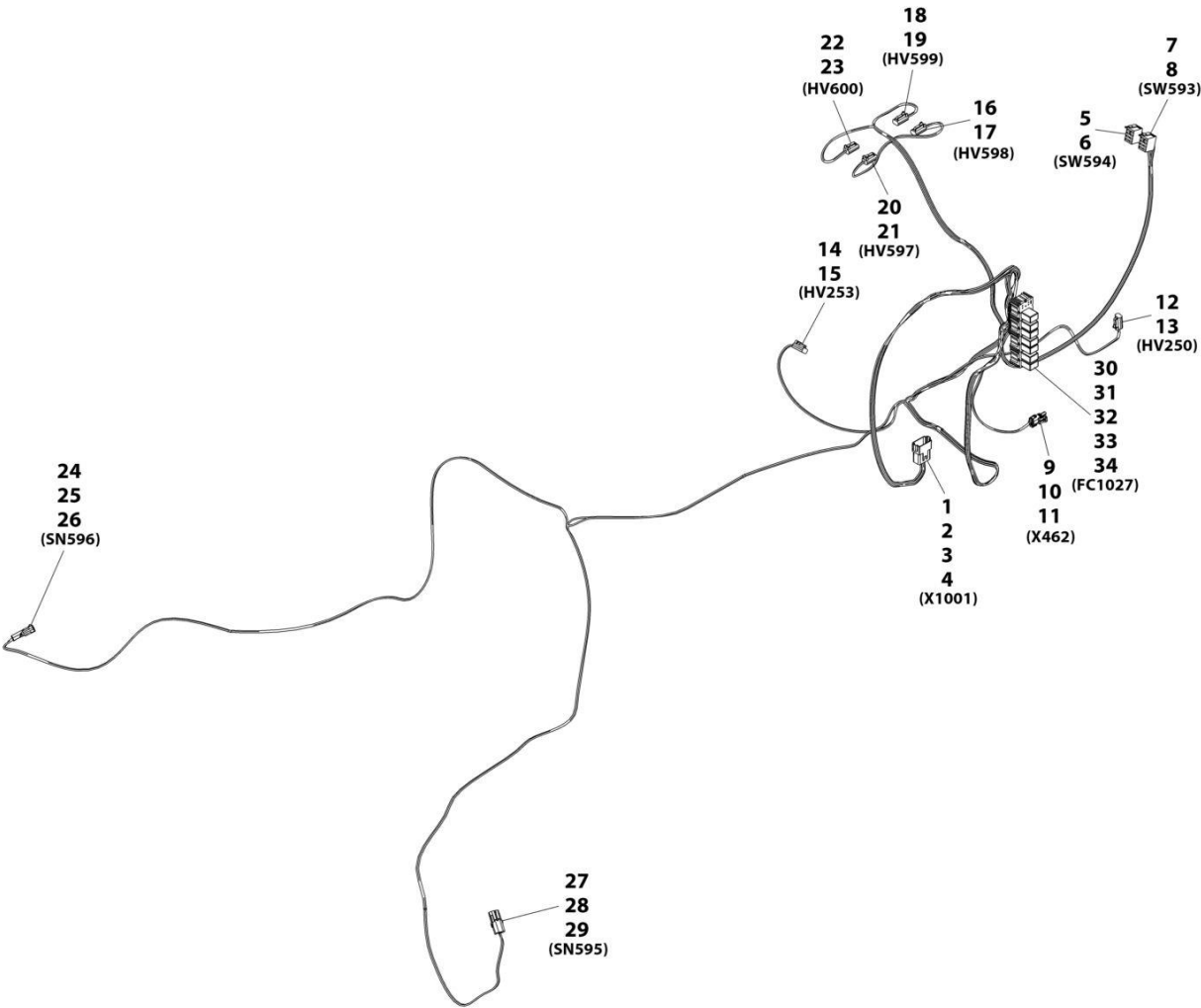
SECTION 10 - ELECTRICAL

FIGURE 10-42. LIGHTS - WORKLIGHT BOOM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238111	Ref	Boom Worklight Harness	B
1	1001117021	1	Connector	
2	1001116747	2	Terminal	
3	4460789	2	Seal	
4	4460742	1	Connector	
5	4460457	2	Terminal	
6	4460789	2	Seal	

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FIGURE 10-43. LOGIC HARNESS



ART_1001251503

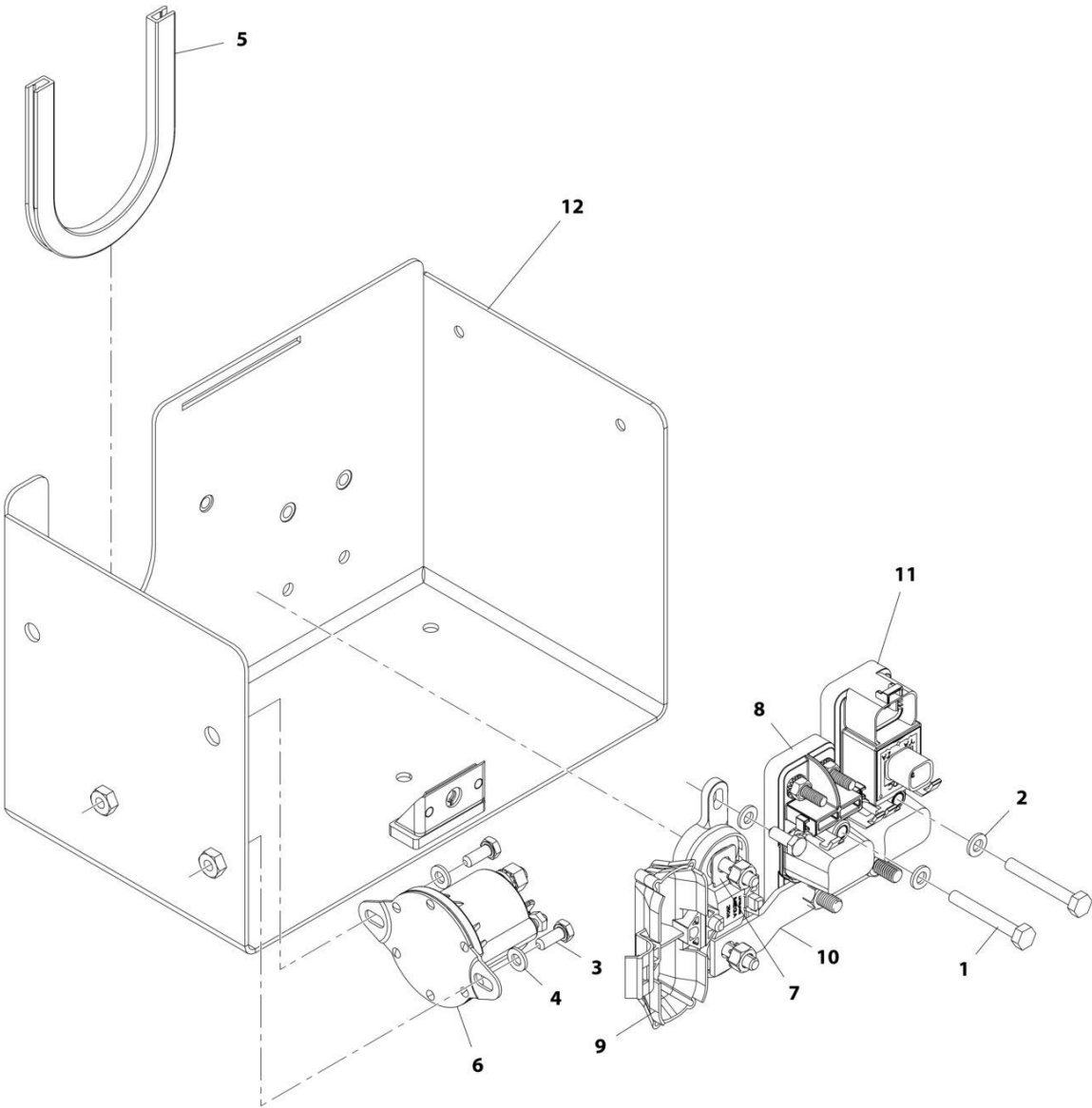
SECTION 10 - ELECTRICAL

FIGURE 10-43. LOGIC HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251503	Ref	Logic Harness	D
1	4460970	1	Connector	
2	4460941	3	Terminal	
3	4460464	5	Terminal	
4	4460466	4	Plug	
5	8220904	1	Connector	
6	1001116720	3	Terminal	
7	8820904	1	Connector	
8	1001116720	3	Terminal	
9	4460742	1	Connector	
10	4460457	2	Terminal	
11	4460458	2	Seal	
12	4460891	1	Connector	
13	4460465	2	Terminal	
14	4460891	1	Connector	
15	4460465	2	Terminal	
16	4460891	1	Connector	
17	4460465	2	Terminal	
18	4460891	1	Connector	
19	4460465	2	Terminal	
20	4460891	1	Connector	
21	4460465	2	Terminal	
22	4460891	1	Connector	
23	4460465	2	Terminal	
24	4461157	1	Connector	
25	4460475	2	Terminal	
26	4460458	2	Seal	
27	4461157	1	Connector	
28	4460475	2	Terminal	
29	4460458	2	Seal	
30	4461103	8	Relay, Locking Wedge	
31	8229243	2	Fuse, 7.5 AMP Mini	
32	1001177198	4	Electric Assembly	
33	1001200845	1	Mounting Leg	
34	1001205172	7	Relay	

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FIGURE 10-44. RELAY PANEL INSTALLATION



ART_1001170233-F

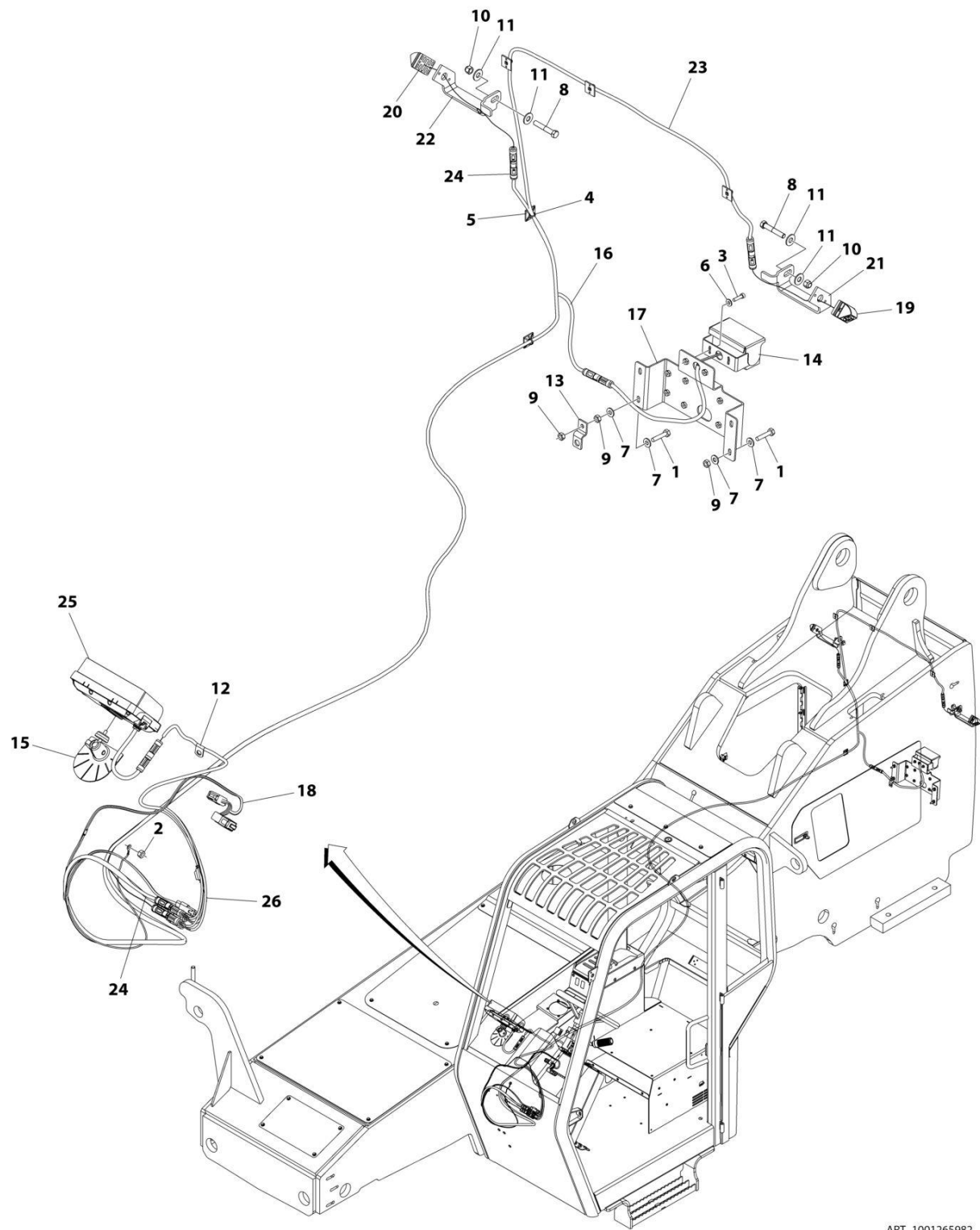
SECTION 10 - ELECTRICAL

FIGURE 10-44. RELAY PANEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170233	Ref	Relay Panel Installation	F
1	0641415	2	Bolt 1/4X1-7/8	
2	4761400	2	Washer 1/4	
3	8303545	4	Bolt M6X14	
4	8307219	4	Washer M6	
5	90206196	257 mm	Trim, Vinyl Edge	
6	1001186417	1	Relay, 150 Amp	
7	1001118245	1	Fuse, 250 Amp	
8	1001127699	1	Fuse, Power Module	
9	1001127700	1	Holder, AMG Fuse	
10	1001129615	1	Bar, Buss Connector	
11	1001184316	1	Relay, Power Module	
12	1001170230	1	Bracket, Relay Mount	

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FIGURE 10-45. REVERSE CAMERA



ART_1001265982

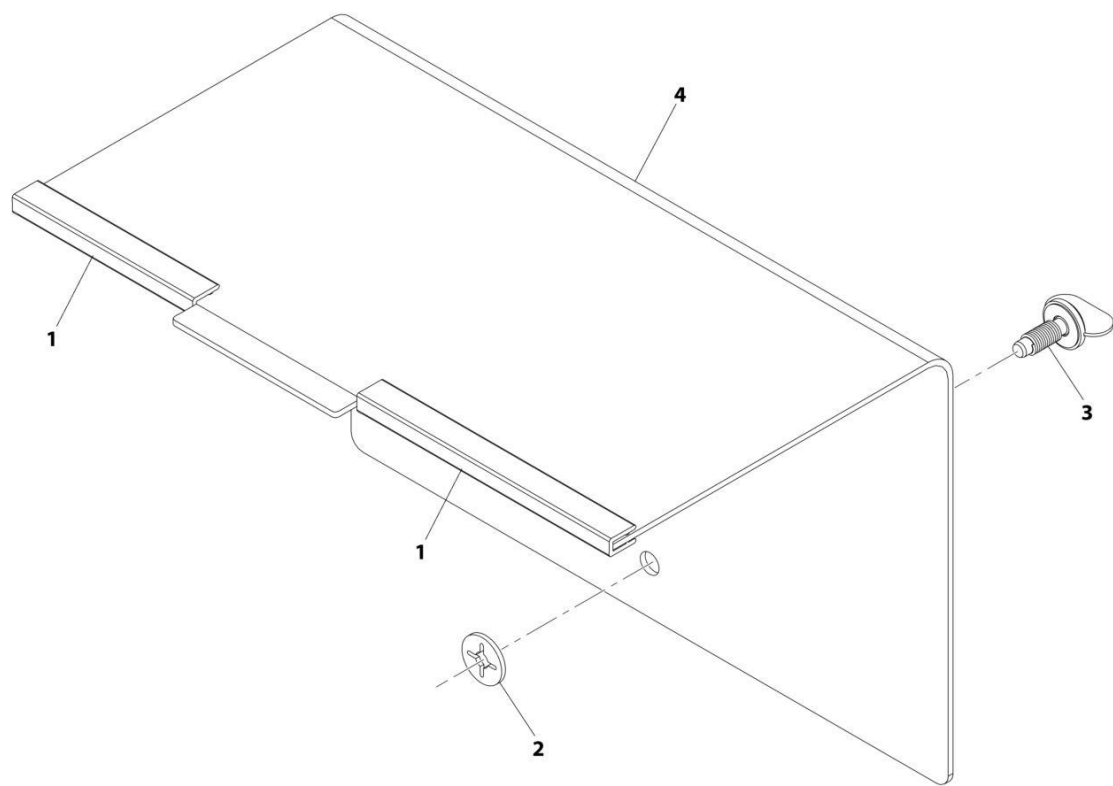
SECTION 10 - ELECTRICAL

FIGURE 10-45. REVERSE CAMERA

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265982	Ref	SKYTRAK BACKUP CAMERA INSTALLATION	A
1	0641410	4	Bolt 1/4 x 1	
2	3311401	1	Nut 1/4	
3	3931012	2	Capscrew, #10 x 3/4	
4	4240032	1	Tie-Strap	
5	4460234	1	Mount, Tie-Strap	
6	4711000	2	Washer M10	
7	4711400	8	Washer 1/4	
8	8303771	1	Bolt 3/8 x 2-1/4	
9	8305004	5	Nut 1/4	
10	8305645	2	Nut 3/8	
11	8307204	4	Washer 3/8	
12	8406010	1	Clip	
13	1001204692	1	Bracket	
14	1001233174	1	Camera, Rear View	
15	1001233217	1	Bracket, Monitor Mount	
16	1001233434	1	Harness, Extension Cable Camera	
17	1001233828	1	Bracket, Camera Mount	
18	1001233976	1	Harness, Rear Camera Option (See Separate Breakdown in this Section)	
19	1001264534	1	Camera (LH)	
19	70031717	1	Cable, Camera	
20	1001264536	1	Camera (RH)	
20	70031717	1	Cable, Camera	
21	1001265679	1	Bracket, Camera (LH)	
22	1001265680	1	Bracket, Camera (RH)	
23	1001265979	1	Harness, Extension (LH)	
24	1001265980	1	Harness, Extension (RH)	
25	1001265986	1	Monitor, Display	
26	1001265987	1	Harness, Monitor/Display	

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FIGURE 10-46. RELAY PANEL COVER ASSEMBLY



ART_1001170234-8

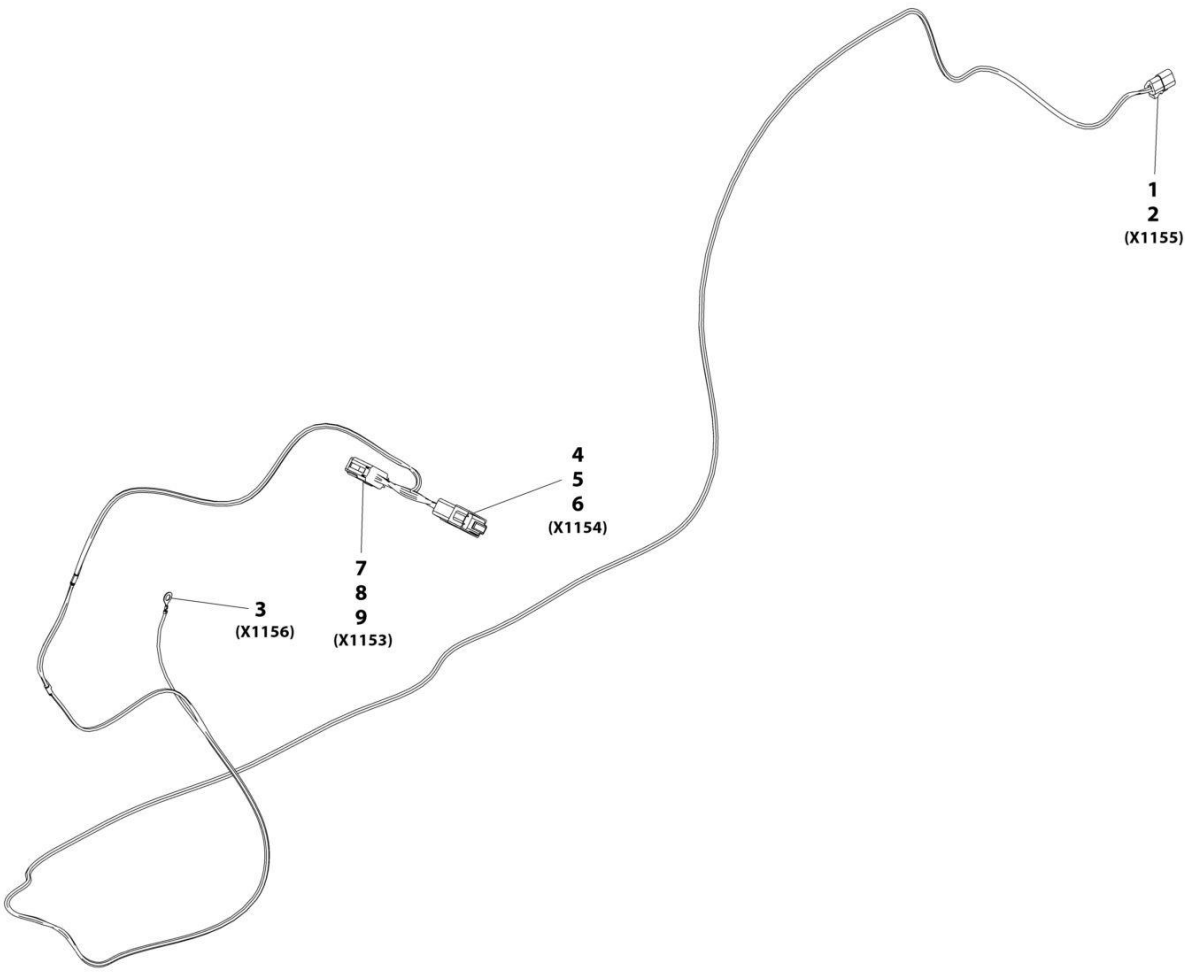
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FIGURE 10-46. RELAY PANEL COVER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170234	Ref	Relay Panel Cover Assembly	B
1	90206196	220 mm	Trim, Vinyl Edge	
2	1001135770	1	Washer, Push-On Retainer	
3	1001135777	1	Screw, Fastener Assembly Wing Head	
4	1001170235	1	Cover, Relay Panel	

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FIGURE 10-47. REVERSE CAMERA OPTION HARNESS



ART_1001233976-A

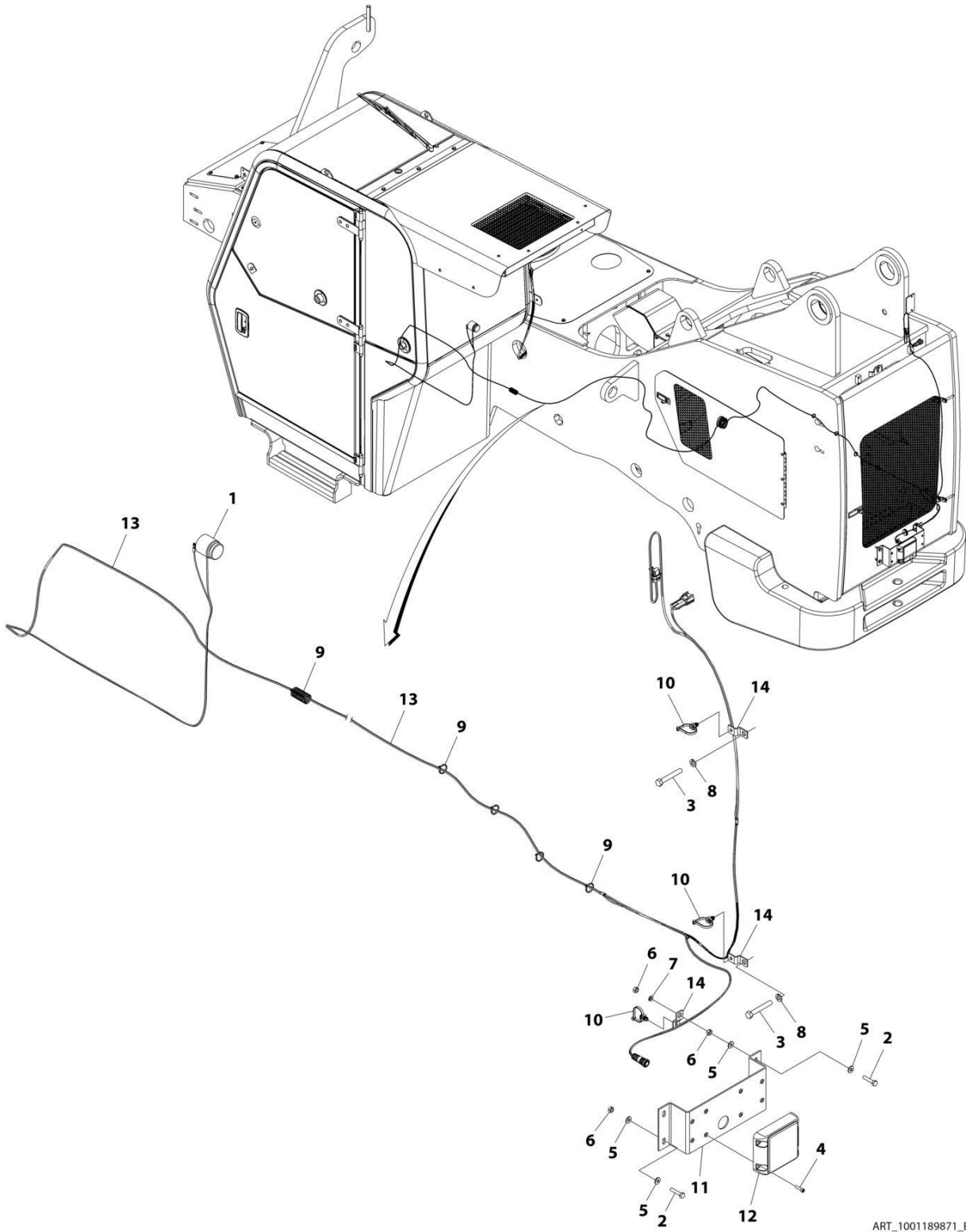
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FIGURE 10-47. REVERSE CAMERA OPTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233976	Ref	Skytrak Rear Camera Option Harness	A
1	4460539	1	Connector	
2	4460465	3	Terminal	
3	1001207173	1	Terminal, Ring	
4	4460970	1	Connector	
5	4460464	9	Terminal	
6	4460466	3	Plug	
7	4460933	1	Connector	
8	4460465	9	Terminal	
9	4460466	3	Plug	

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FIGURE 10-48. REVERSE SENSOR INSTALLATION



ART_1001189871_B

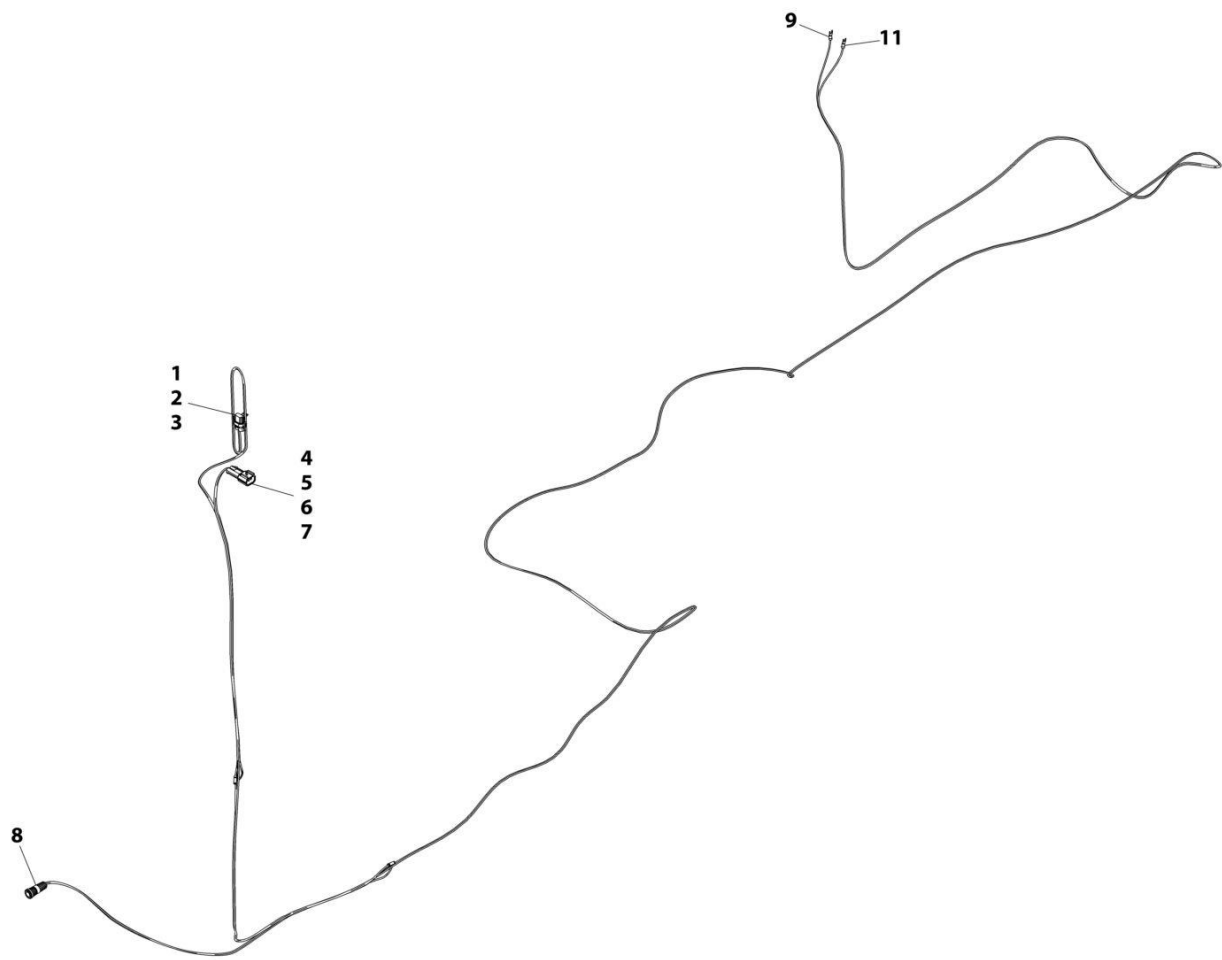
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FIGURE 10-48. REVERSE SENSOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189871	Ref	REVERSE SENSOR INSTALLATION	B
1	0140011	1	Audible, Signal Device	
2	0641410	4	Bolt 1/4 x 1	
3	0641620	2	Bolt 3/8 x 2	
4	3931012	4	Capscrew #10 x 3/4	
5	4711400	8	Washer 1/4	
6	8305004	5	Nut 1/4	
7	8307002	1	Washer 1/4	
8	8307005	2	Washer 3/8	
9	8584001	AR	Wrap, Tie 3/16	
10	1001004720	3	Strap, Cable	
11	1001154375	1	Bracket	
12	1001247421	1	Control, Reverse Sensor	
13	1001189886	1	Harness, Reverse Sensor (See Separate Breakdown in this Section)	
14	1001204692	3	Bracket	

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FIGURE 10-49. REVERSE SENSOR HARNESS



ART_1001189886-B

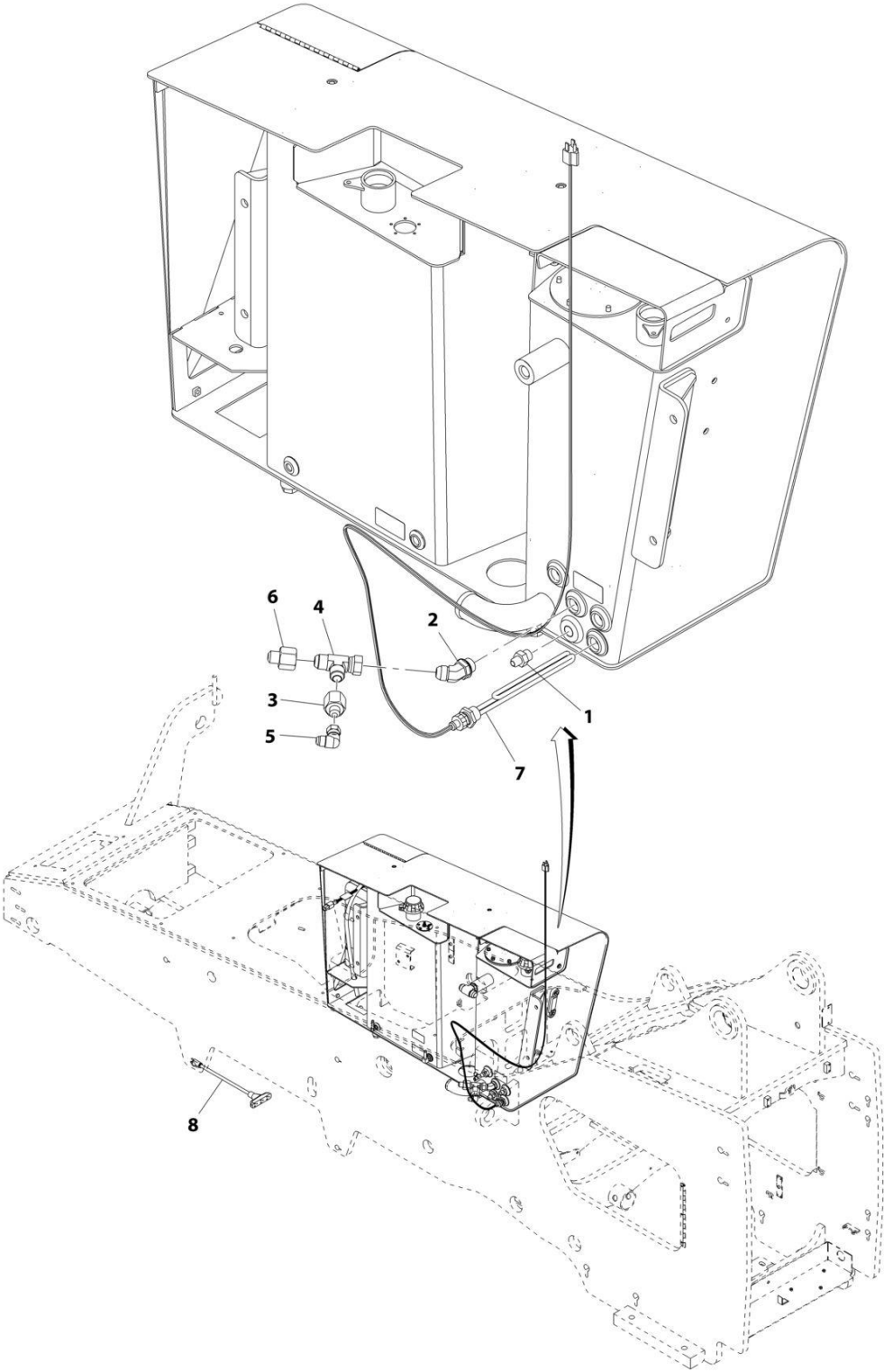
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FIGURE 10-49. REVERSE SENSOR HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189886	Ref	Reverse Sensor Harness	B
1	1001117021	1	Connector	
2	1001116728	2	Terminal	
3	4460458	2	Seal	
4	1001117026	1	Connector	
5	8220890	1	Lock, Secondary	
6	1001116745	2	Terminal	
7	4460458	2	Seal	
8	1001175733	1	Connector	
9	4460183	1	Fork Terminal	
11	4460183	1	Fork Terminal	

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FIGURE 10-50. TANK HEATER INSTALLATION - HYDRAULIC TANK



ART_1001233964-A

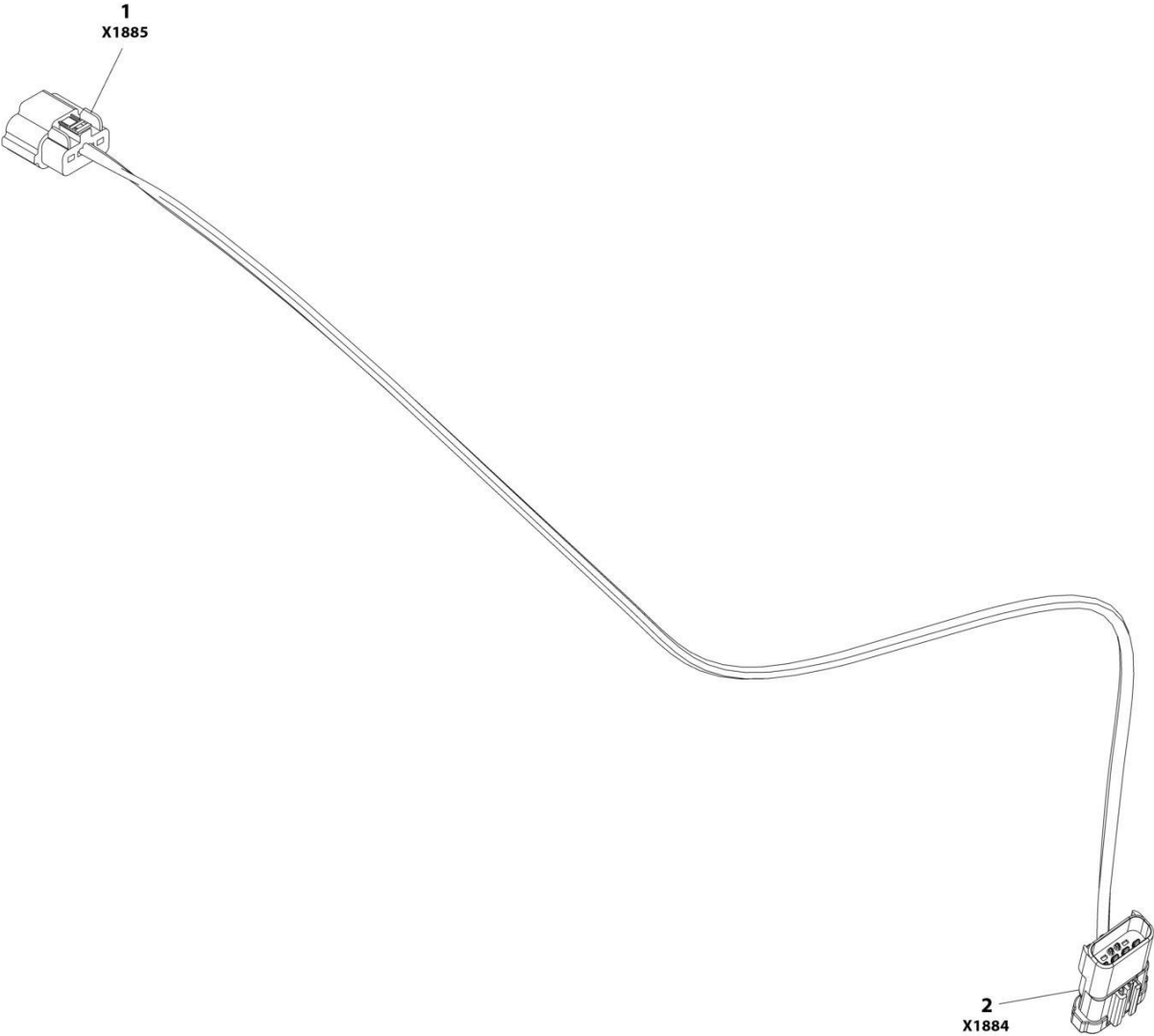
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FIGURE 10-50. TANK HEATER INSTALLATION - HYDRAULIC TANK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233964	Ref	Hydraulic Tank Heater Installation	A
1	2220374	1	Connector	
2	2220498	1	Adapter, 45	
3	2220622	1	Reducer	
4	2220700	1	Tee Fitting	
5	8765204	1	Elbow	
6	1001094696	1	Adapter	
7	1001105886	1	Immersion Heater	
8	1060626	1	3 Way Plug	

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FIGURE 10-51. TBAP HARNESS



ART_1001184835

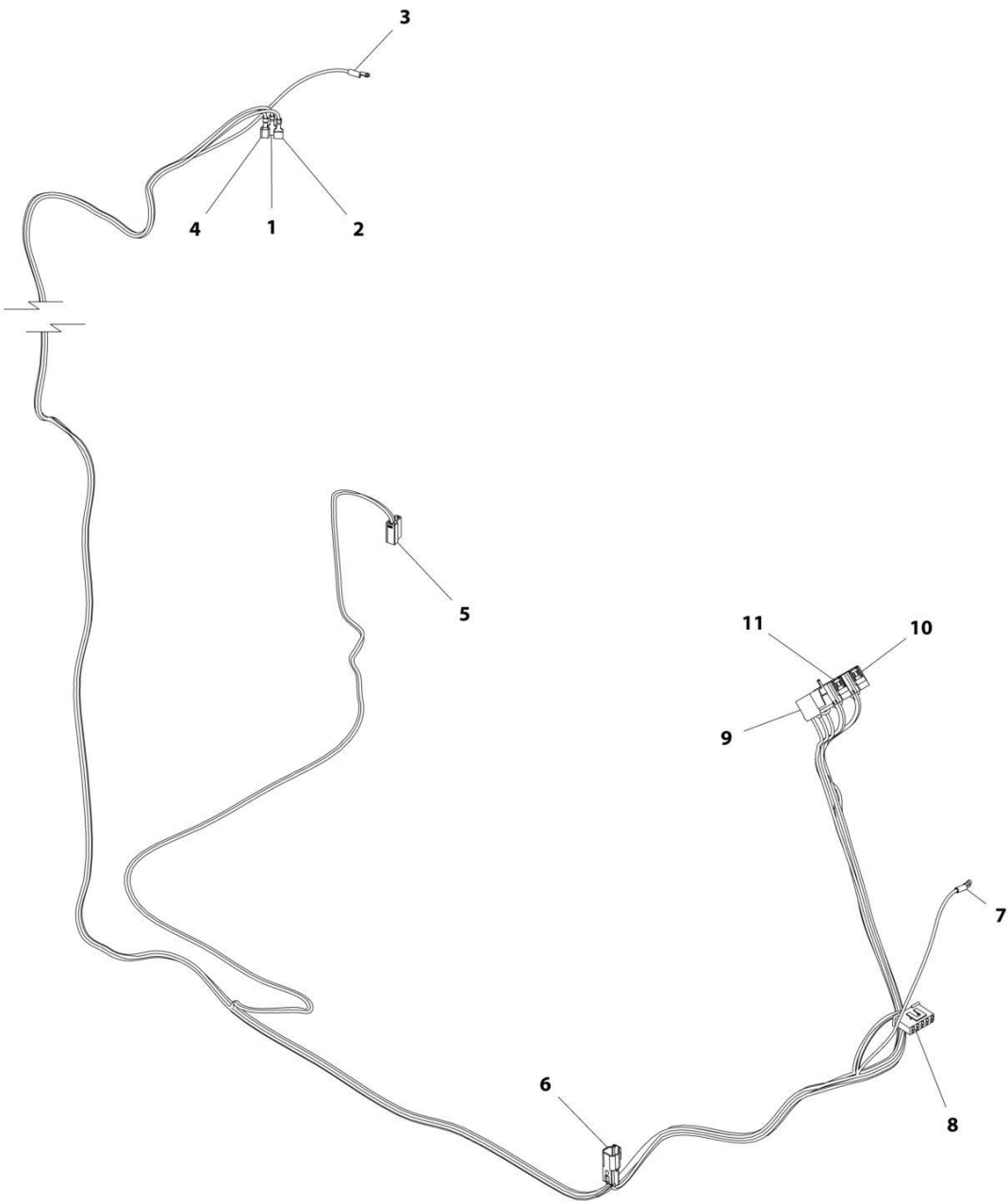
SECTION 10 - ELECTRICAL

FIGURE 10-51. TBAP HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001184835	Ref	TBAP Harness	C
	10011184495	1	Connector	
	1001260509	4	Terminal	
	1001184496	4	Seal	
2	1001184491	1	Connector	
	1001184493	4	Terminal	

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FIGURE 10-52. WIPER HARNESS



ART_1001178349-D

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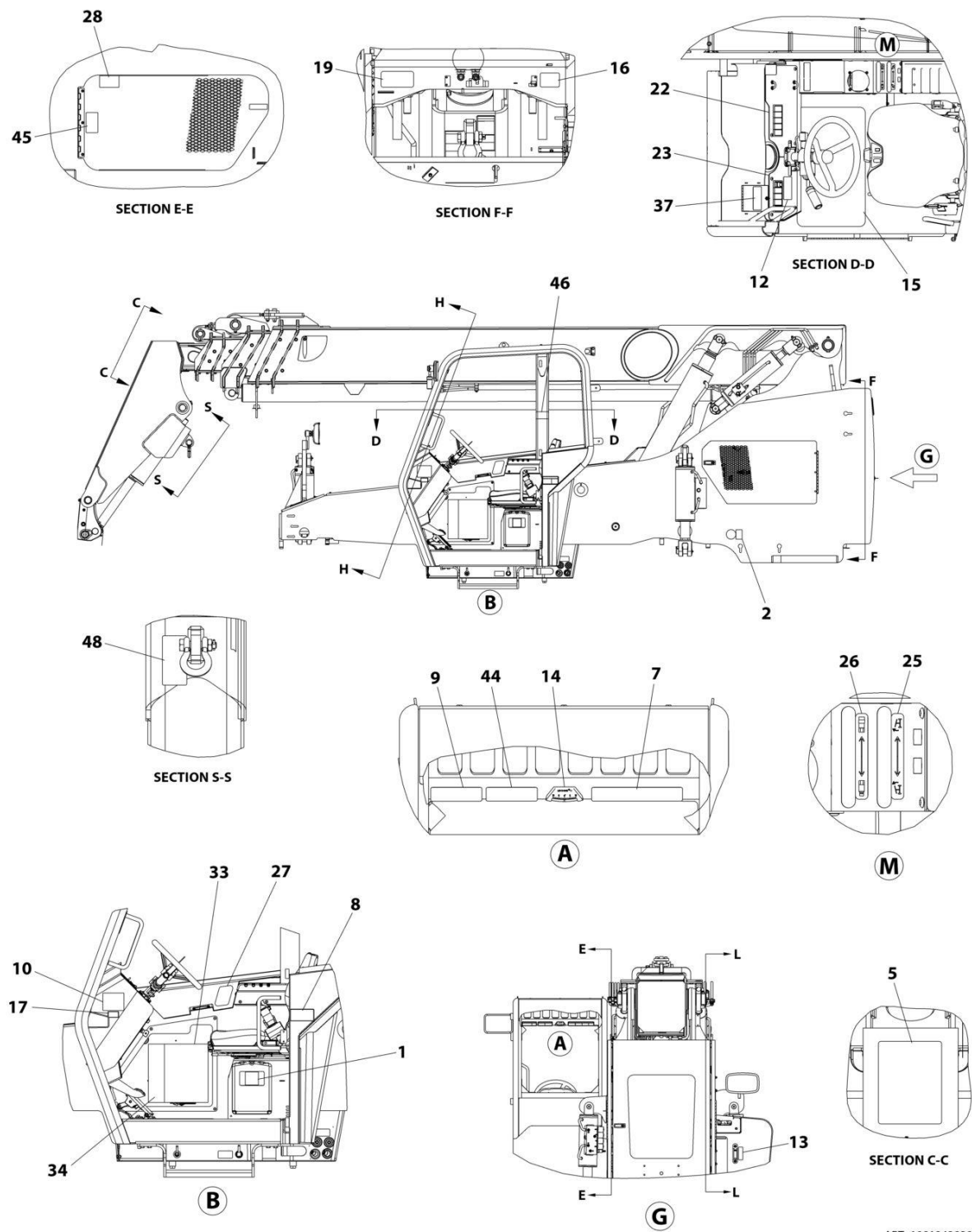
FIGURE 10-52. WIPER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178349	Ref	Wiper Harness	D
1	8220051	1	Terminal	
2	8220051	1	Terminal	
3	8220035	1	Terminal, Ring	
4	8220051	1	Terminal	
5	4460994	1	Housing, Terminal	
	1001169816	2	Terminal	
6	4460897	1	Connector	
	80604017	1	Lock, Wedge	
	4460464	2	Terminal	
7	8220007	1	Terminal, Ring	
8	1001127066	1	Connector	
	1001116720	3	Terminal	
9	8220904	1	Connector	
	4460419	5	Terminal	
10	1001117081	1	Connector	
	4460419	9	Terminal	
11	1001117081	1	Connector	
	4460419	9	Terminal	

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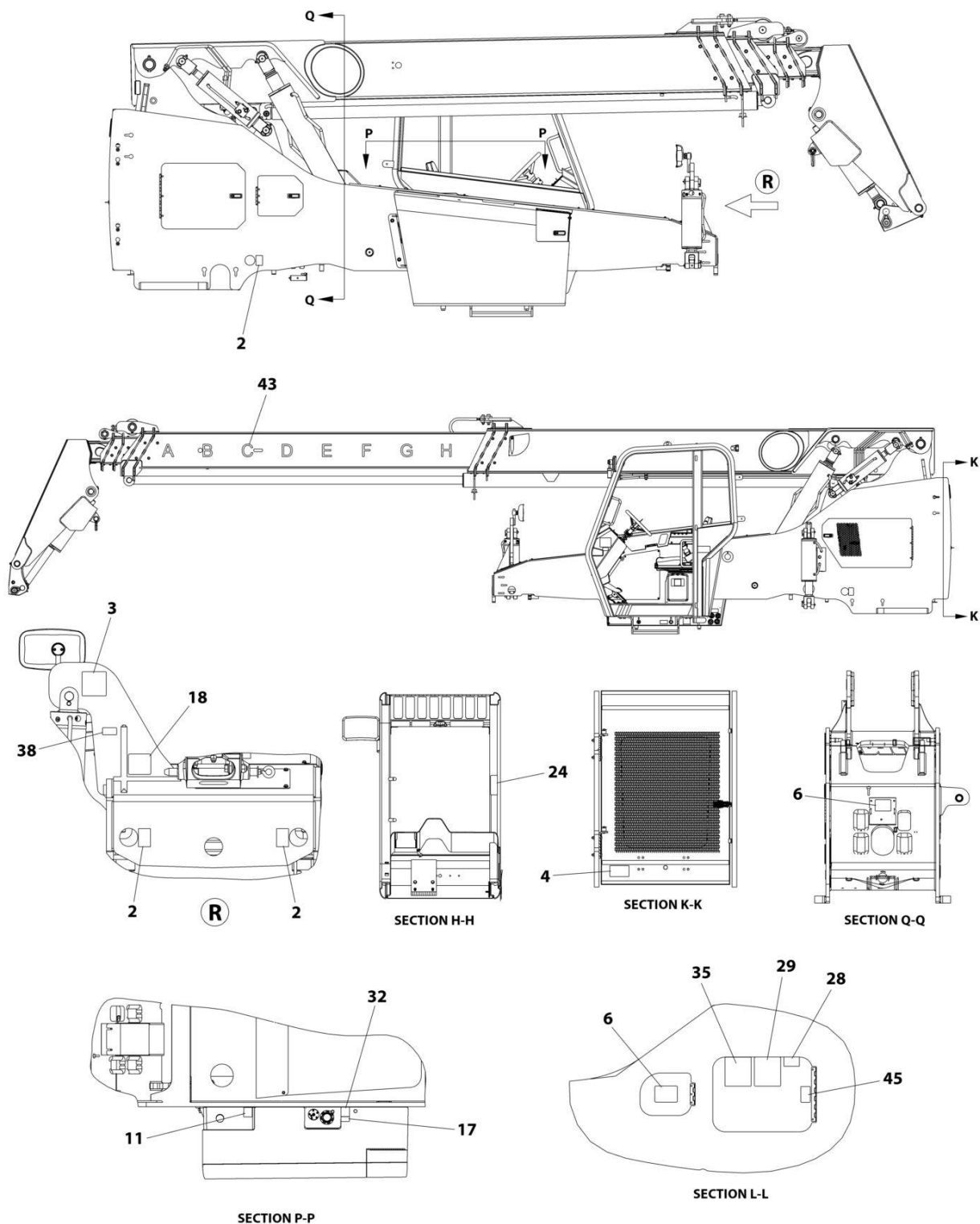
SECTION 11 - DECALS

FIGURE 11-1. DECALS INSTALLATION (74HP) (ANSI)



ART_1001242930_10F2

SECTION 11 - DECALS



ART_1001242930_20F2

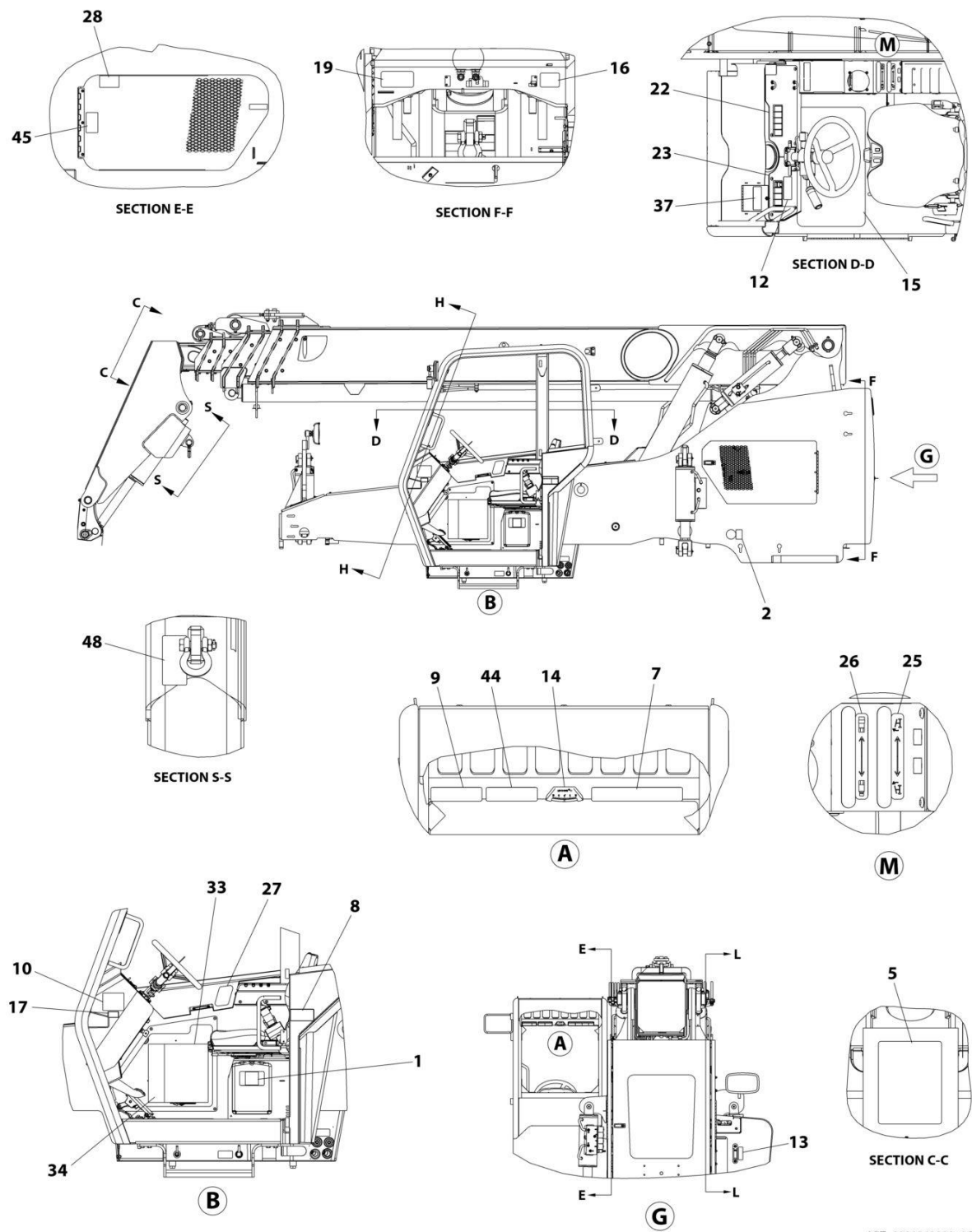
SECTION 11 - DECALS

FIGURE 11-1. DECALS INSTALLATION (74HP) (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242930	Ref	DECAL INSTALLATION (ANSI) 74HP	F
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Barcode (Note: Not Available for Purchase)	
4	1706296	1	Decal, Battery Hazard	
5	1706298	1	Decal, Carry Personnel	
6	1706300	2	Decal, Ether Starting Warning	
7	1706306	1	Decal, Tip Over Warning	
8	1706768	1	Decal, No Riders	
9	1706850	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	4107971	1	Decal, Outrigger Contact	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
17	1001125387	2	Decal, Ultra Low Sulfur Fuel	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001139578	1	Decal, Hot Fluid Warning	
22	1001158272	1	Decal, RH Overlay	
23	1001158319	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001202626	2	Decal, 74HP	
29	1001202627	1	Decal, Maintenance Chart	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel	
35	1001254736	1	Decal, Lubrication Chart	
37	1001218659	1	Decal, Brake Fluid	
38	1001223453	1	Decal, ICES (CAN)	
43	4107442	1	Decal, Boom Extend Letters	
44	1706299	1	Decal, Contacting Power Lines Warning	
45	1706301	2	Decal, Keep Clear of Rotating Parts Warning	
46	1001231801	1	Decal, Warning Prop 65 Diesel	
48	1001207217	1	Decal, Danger Swinging Load	

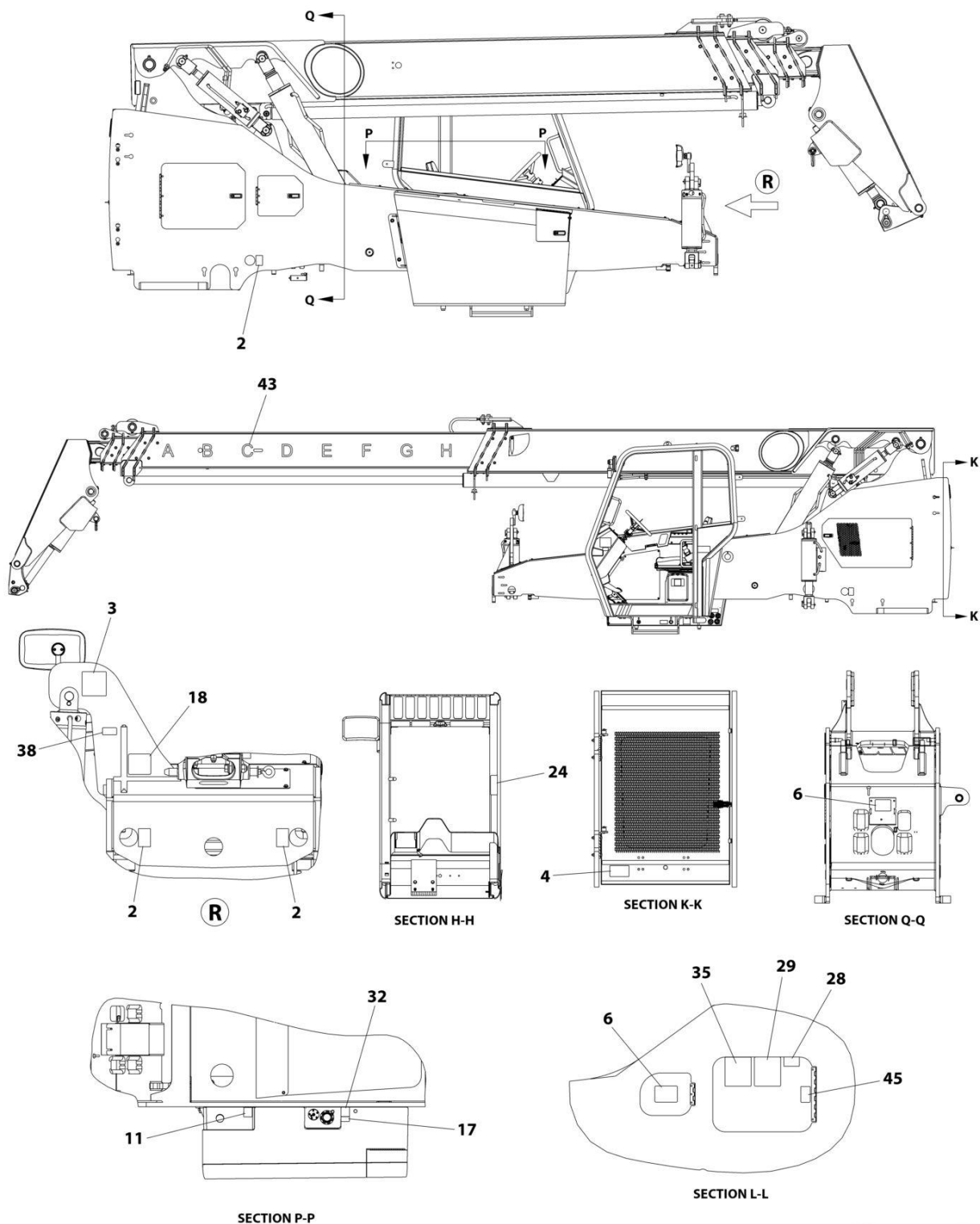
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FIGURE 11-2. DECALS INSTALLATION (74HP) (ENGLISH/FRENCH)



ART_1001242931_1OF2

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ART_1001242931_2OF2

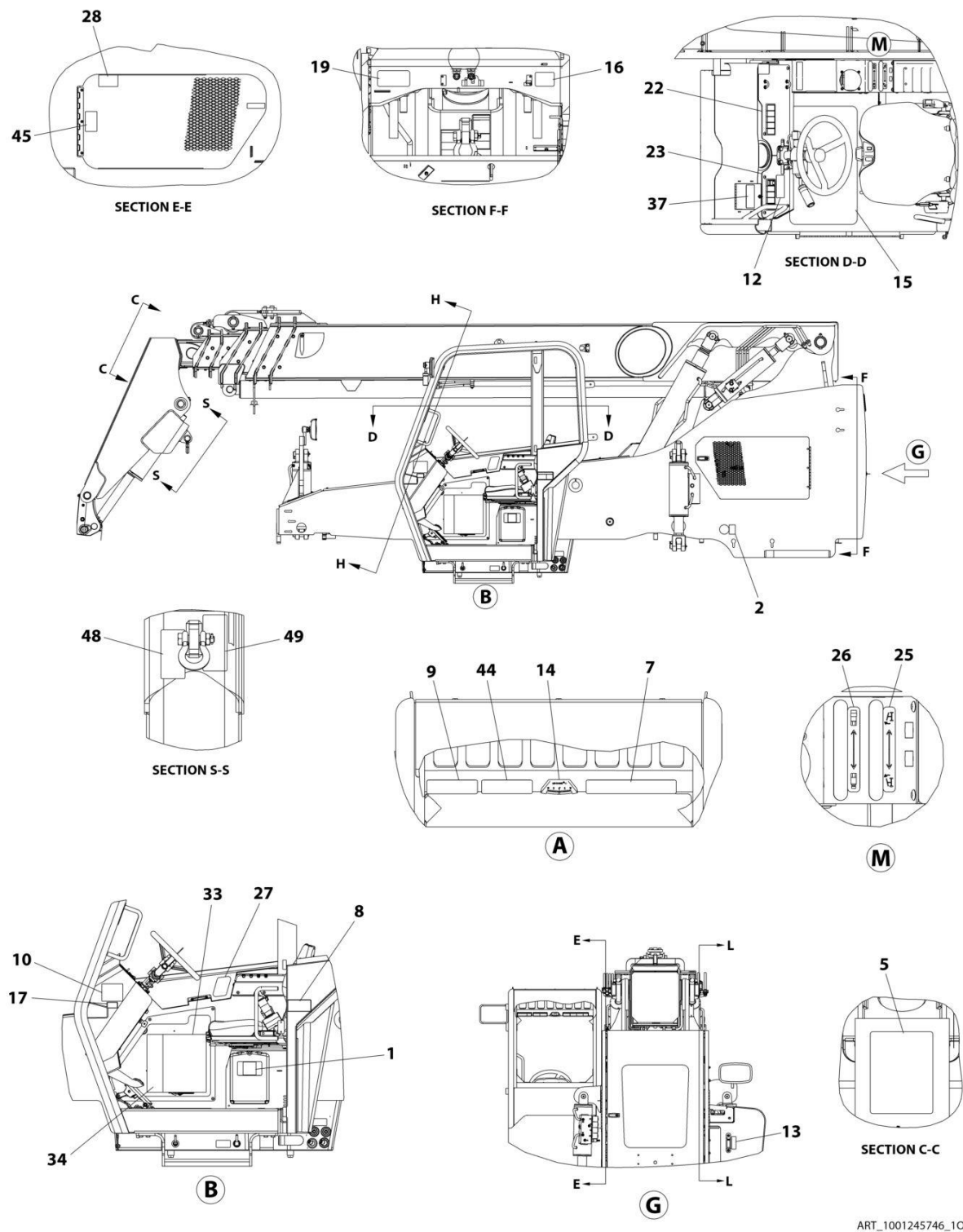
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FIGURE 11-2. DECALS INSTALLATION (74HP) (ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242931	Ref	DECAL INSTALLATION (ENGLISH/FRENCH) 74HP	F
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Bar Code (Note: Not Available for Purchase)	
4	1001163174	1	Decal, Battery Warning	
5	1001163206	1	Decal, Carry Personnel	
6	1001163212	2	Decal, No Ether Warning	
7	1001163285	1	Decal, Tip Over Warning	
8	1001163300	1	Decal, No Riders	
9	1001163304	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	1001187239	1	Decal, Outrigger	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
17	1001163355	2	Decal, Ultra Low Sulfur Diesel	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001163323	1	Decal, Hot Fluid Warning	
22	1001180175	1	Decal, RH Overlay	
23	1001180176	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001202626	2	Decal, 74HP	
29	1001202627	1	Decal, Maintenance Chart	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel Logic Harness	
35	1001254736	1	Decal, Lubrication Chart	
37	1001219211	1	Decal, DEF Fluid	
38	1001223453	1	Decal, ICES (CAN)	
43	4107442	1	Decal, Boom Extend Letters	
44	1001163210	1	Decal, Electrocuting Hazard	
45	1001163222	2	Decal, Moving Parts	
48	1001211278	1	Decal, Swinging Load Decal Kit	

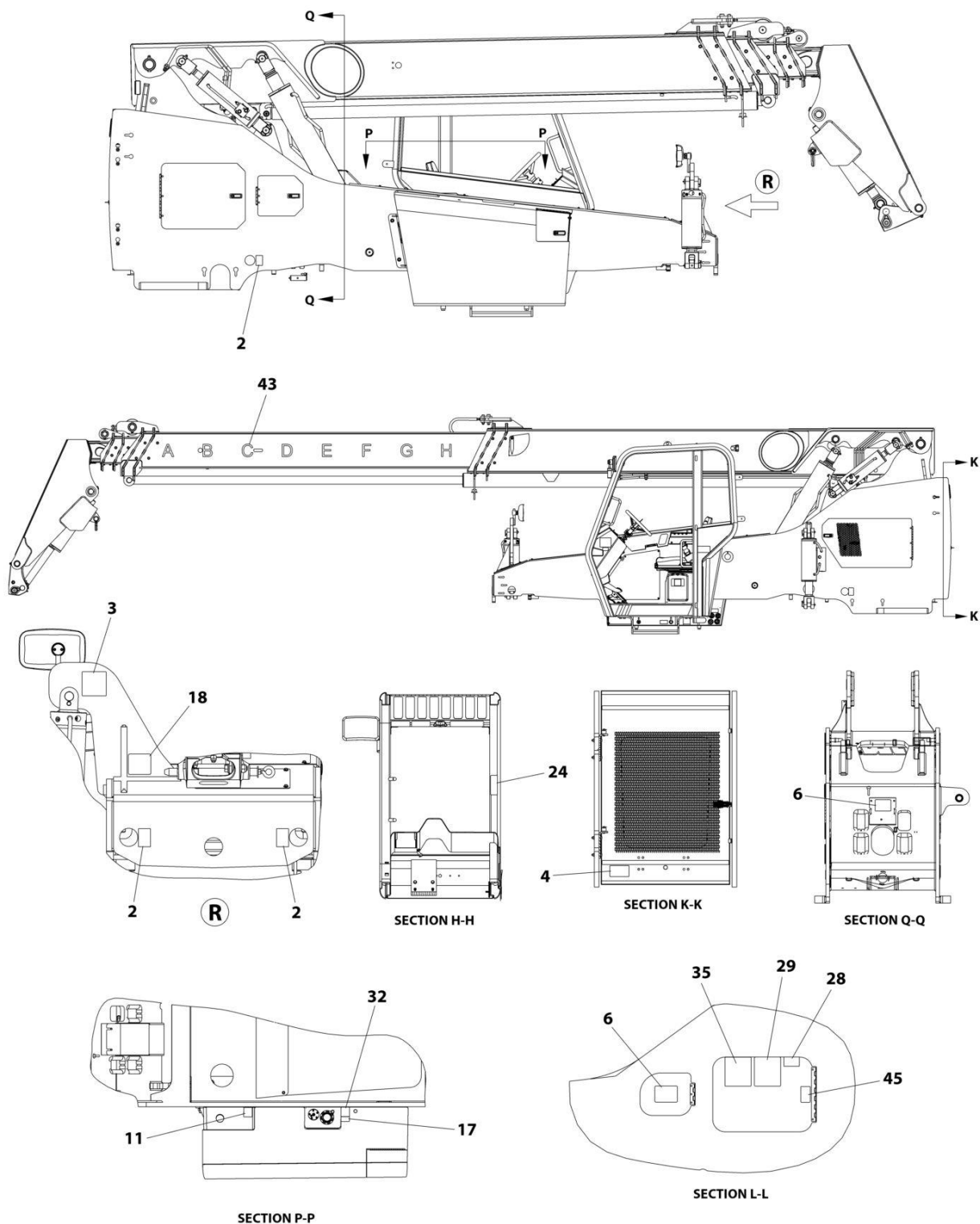
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FIGURE 11-3. DECALS INSTALLATION (74HP) (ENGLISH/SPANISH)



ART_1001245746_10F2

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ART_1001245746_20F2

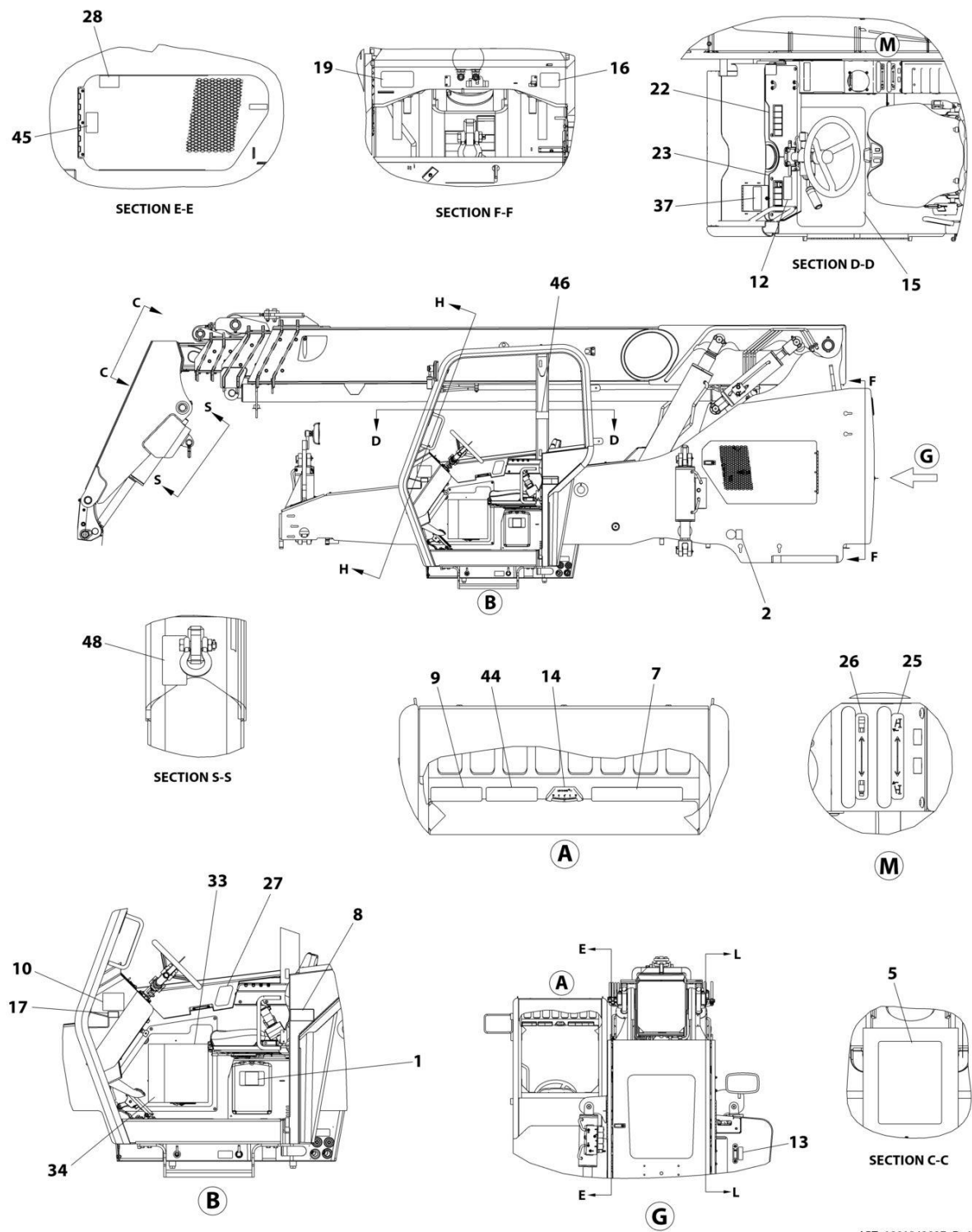
SECTION 11 - DECALS

FIGURE 11-3. DECALS INSTALLATION (74HP) (ENGLISH/SPANISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001245746	Ref	DECAL INSTALLATION (ENGLISH/SPANISH) 74HP	F
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Bar Code (Note: Not Available for Purchase)	
4	1001235794	1	Decal, Battery Warning	
5	1001235796	1	Decal, Carry Personnel	
6	1001235798	2	Decal, Ether Starting Warning	
7	1001235801	1	Decal, Tip Over Warning	
8	1001235802	1	Decal, No Riders	
9	1001235803	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	1001242122	1	Decal, Outrigger	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
17	1001235804	2	Decal, Ultra Low Sulfur Diesel	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001235805	1	Decal, Hot Fluid Warning	
22	1001242172	1	Decal, RH Overlay	
23	1001242173	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001236313	2	Decal, MCO 74HP	
29	1001174152	1	Decal, Maintenance Chart	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel Logic Harness	
35	1001254736	1	Decal, Lubrication Chart	
37	1001219211	1	Decal, DEF Fluid	
43	4107442	1	Decal, Boom Extend Letters	
44	1001235797	1	Decal, Electrocution Hazard	
45	1001235799	2	Decal, Moving Parts	
48	1001246078	1	Decal, Swinging Loads Boom Head Skytrak (SPAN)	
49	1001242179	1	Decal, Danger Swinging Load	

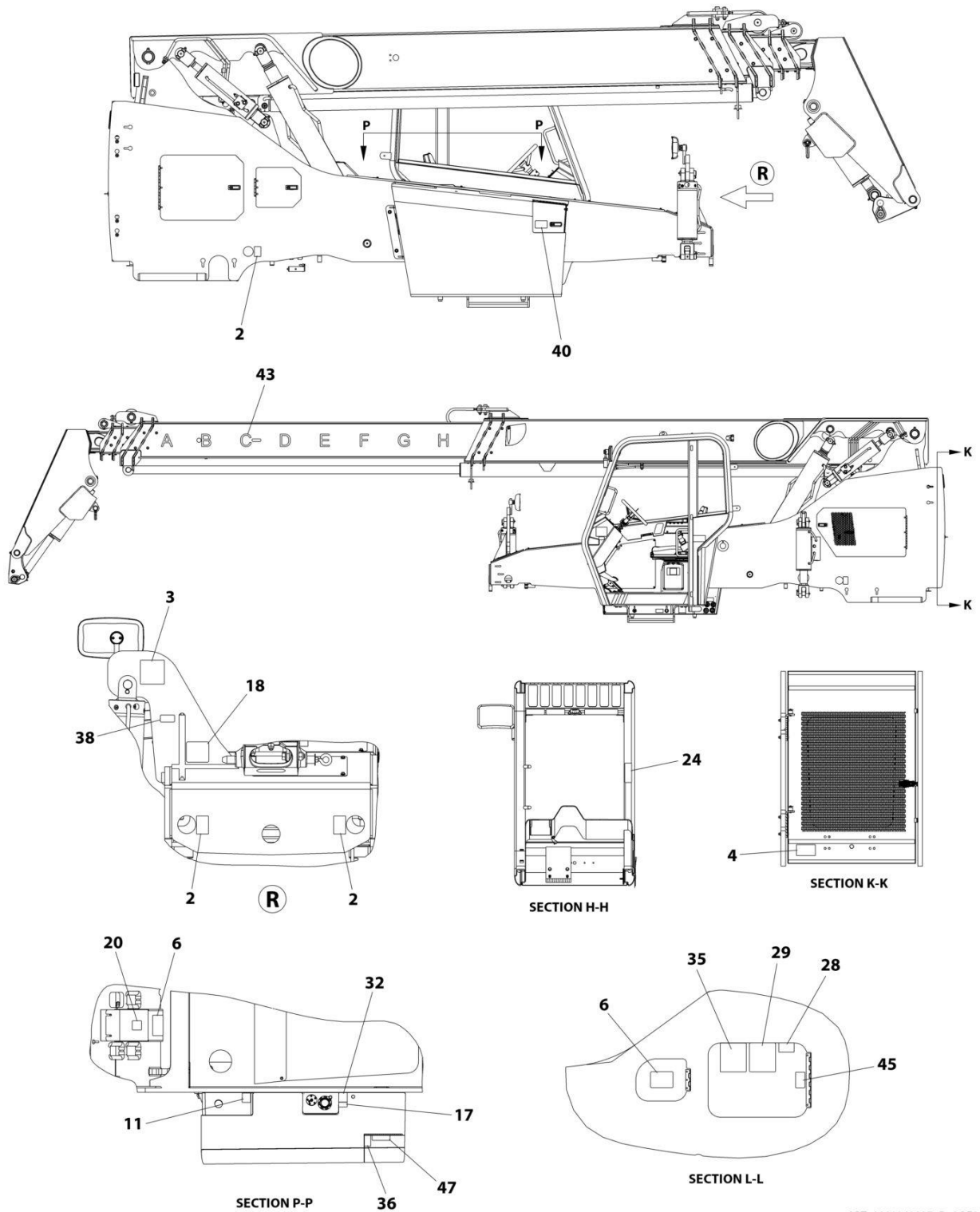
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FIGURE 11-4. DECALS INSTALLATION (130HP) (ANSI)



ART_1001242927_D_10F2

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ART_1001242927_D_20F2

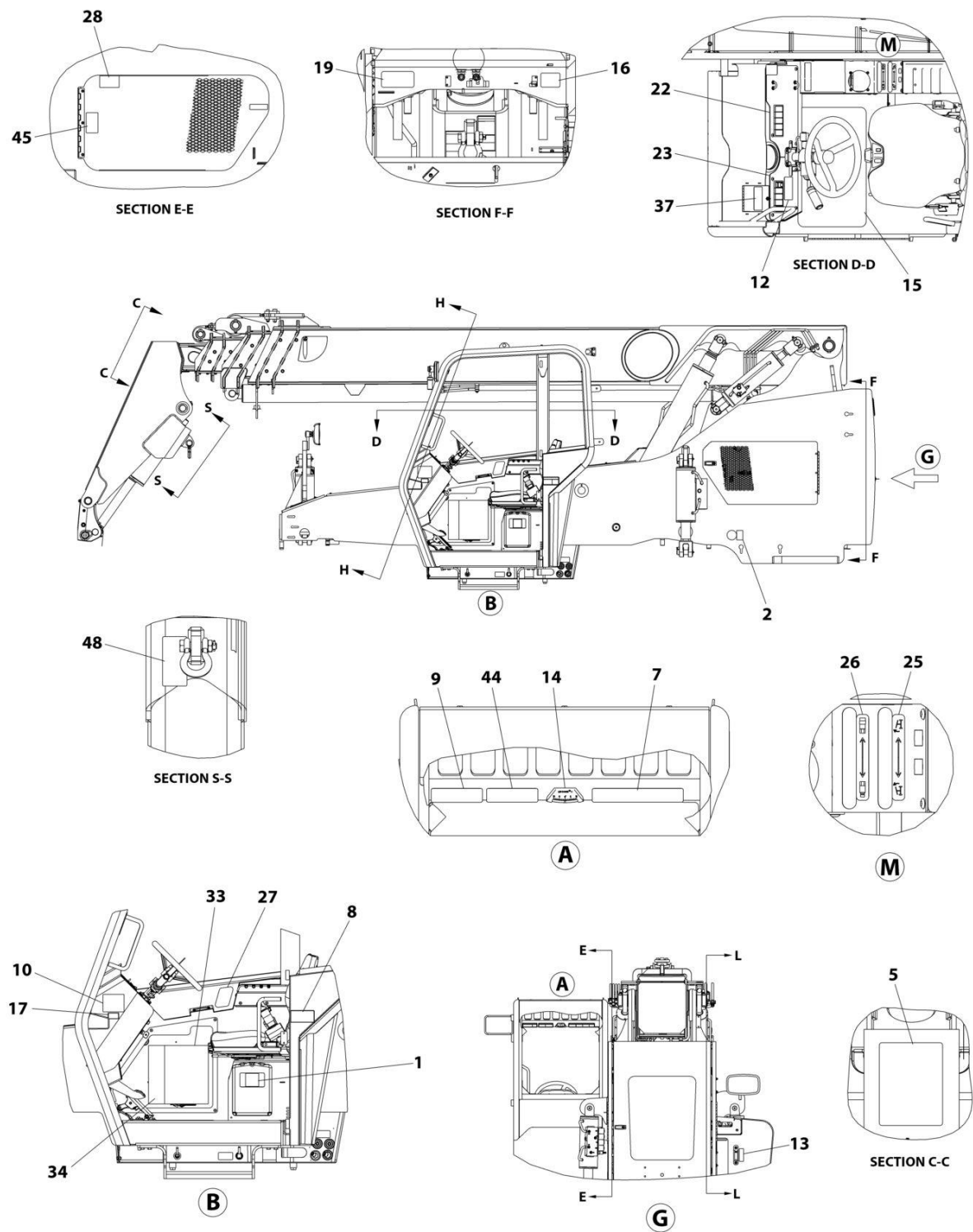
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FIGURE 11-4. DECALS INSTALLATION (130HP) (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242927	Ref	DECAL INSTALLATION (ANSI)	D
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Bar Code (Note: Not Available for Purchase)	
4	1706296	1	Decal, Battery Hazard	
5	1706298	1	Decal, Carry Personnel	
6	1706300	2	Decal, Ether Starting Warning	
7	1706306	1	Decal, Tip Over Warning	
8	1706768	1	Decal, No Riders	
9	1706850	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	4107971	1	Decal, Outrigger	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
17	1001125387	2	Decal, Ultra Low Sulfur Fuel	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001139578	1	Decal, Hot Fluid Warning	
20	1001142452	1	Decal, No Step	
22	1001158272	1	Decal, RH Overlay	
23	1001158319	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001173422	2	Decal, MCO 110 HP	
29	1001174152	1	Decal, Maintenance Chart	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel	
35	1001254736	1	Decal, Lubrication Chart	
36	1001196806	1	Decal, Diesel Exhaust Fluid	
37	1001218659	1	Decal, Brake Fluid	
38	1001223453	1	Decal, ICES (CAN)	
40	1001230307	1	Decal, DEF Tank Service Cummins	
43	4107442	1	Decal, Boom Extend Letters	
44	1706299	1	Decal, Contacting Power Lines Warning	
45	1706301	2	Decal, Keep Clear of Rotating Parts Warning	
46	1001231801	1	Decal, Warning Prop 65 Diesel	
47	1001219212	1	Decal, DEF Fluid	
48	1001207217	1	Decal, Danger Swinging Load	

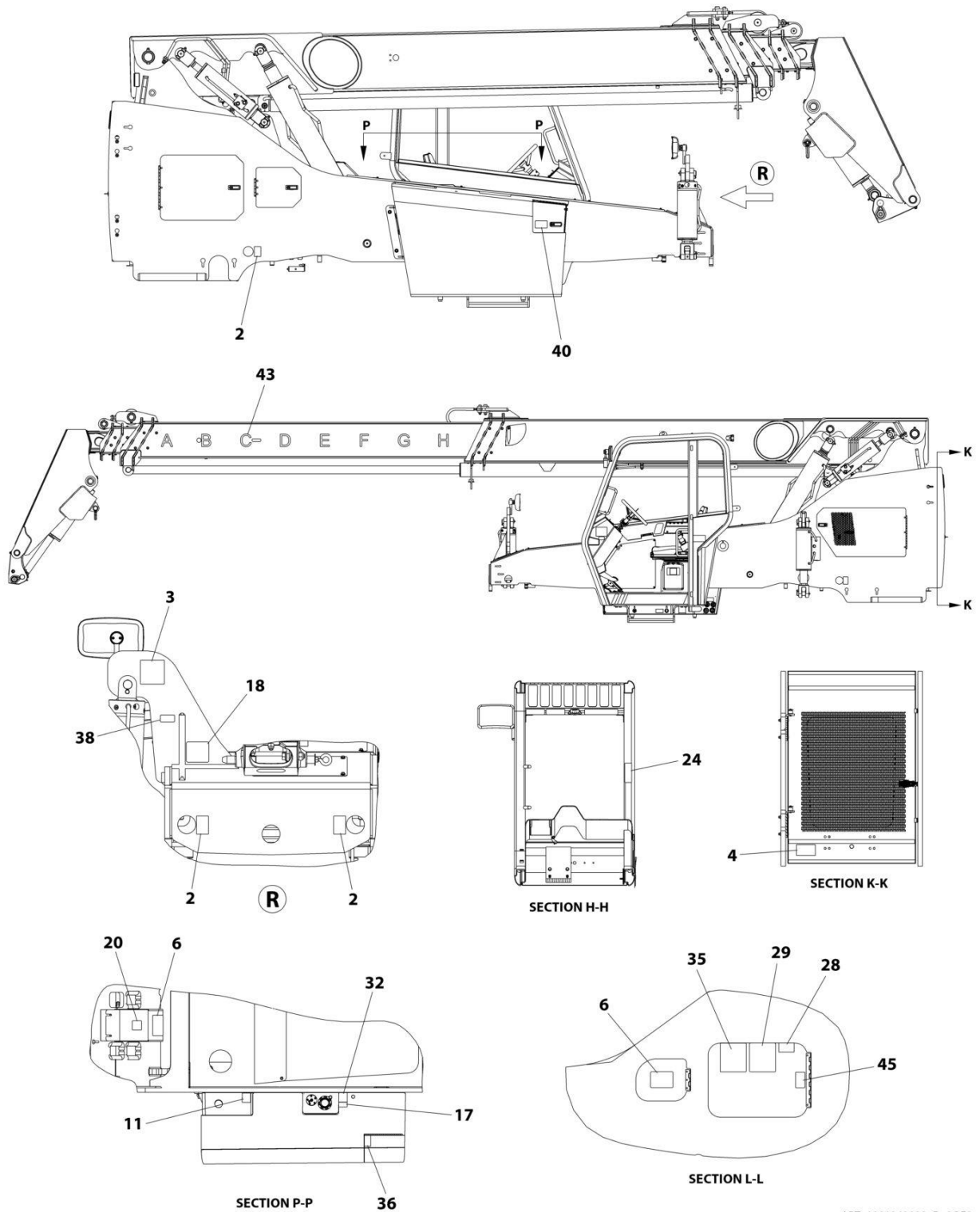
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FIGURE 11-5. DECALS INSTALLATION (130HP) (ENGLISH/FRENCH)



ART_1001242928_D_10F2

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ART_1001242928_D_20F2

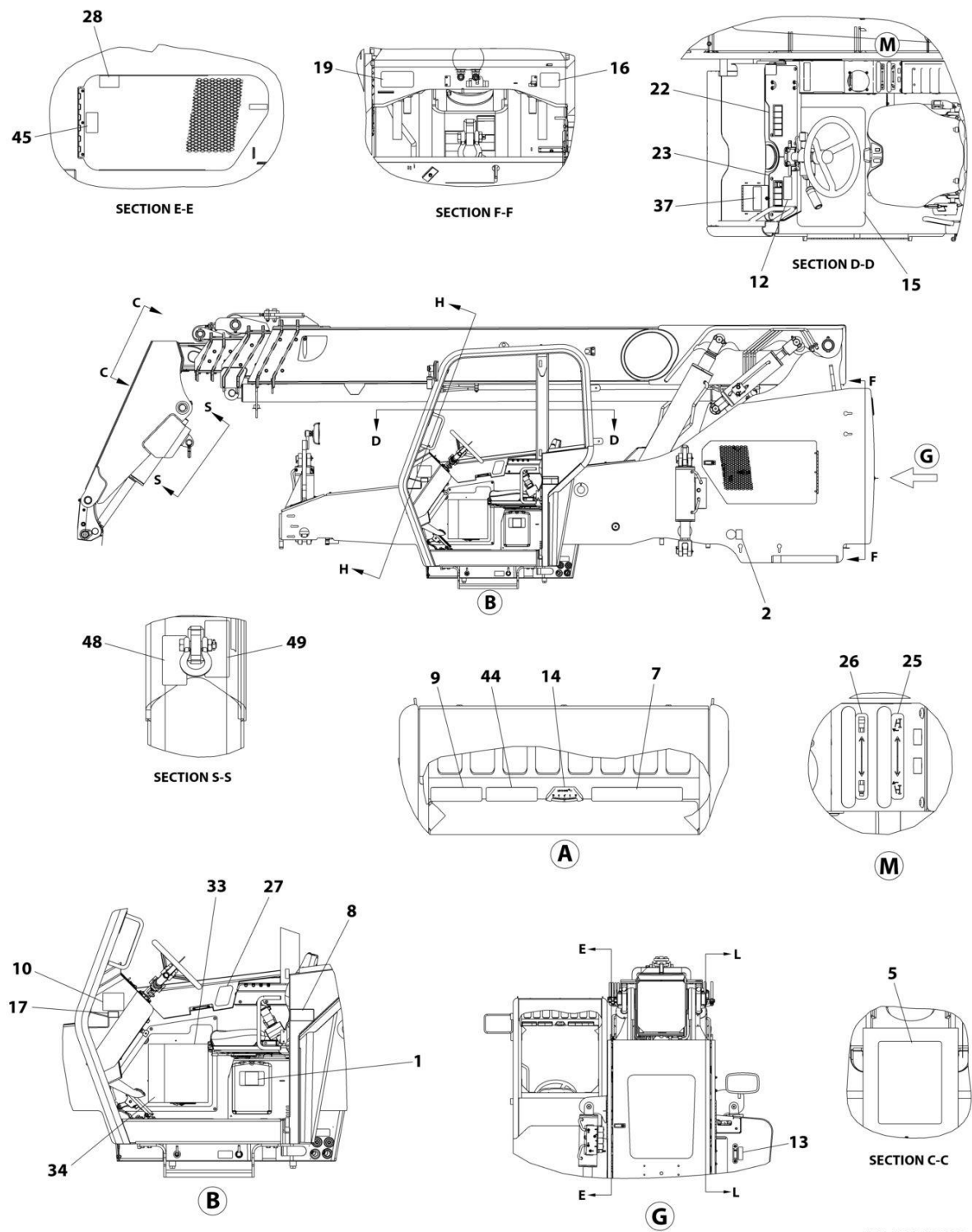
SECTION 11 - DECALS

FIGURE 11-5. DECALS INSTALLATION (130HP) (ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242928	Ref	DECAL INSTALLATION (ENGLISH/FRENCH) (ULS)	D
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Bar Code (Note: Not Available for Purchase)	
4	1001163174	1	Decal, Battery Warning	
5	1001163206	1	Decal, Carry Personnel	
6	1001163212	2	Decal, No Ether Warning	
7	1001163285	1	Decal, Tip Over Warning	
8	1001163300	1	Decal, No Riders	
9	1001163304	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	1001187239	1	Decal, Outrigger	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
17	1001163355	2	Decal, Ultra Low Sulfur Diesel	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001163323	1	Decal, Hot Fluid Warning	
20	1001142452	1	Decal, No Step	
22	1001180175	1	Decal, RH Overlay	
23	1001180176	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001173422	2	Decal, MCO 110HP	
29	1001174152	1	Decal, Maintenance Chart	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel Logic Harness	
35	1001254736	1	Decal, Lubrication Chart	
36	1001196806	1	Decal, Diesel Exhaust Fluid	
37	1001219211	1	Decal, DEF Fluid	
38	1001223453	1	Decal, ICES (CAN)	
40	1001230309	1	Decal, DEF Tank	
43	4107442	1	Decal, Boom Extend Letters	
44	1001163210	1	Decal, Electrocution Hazard	
45	1001163222	2	Decal, Moving Parts	
48	1001211278	1	Decal, Swinging Load Decal Kit	

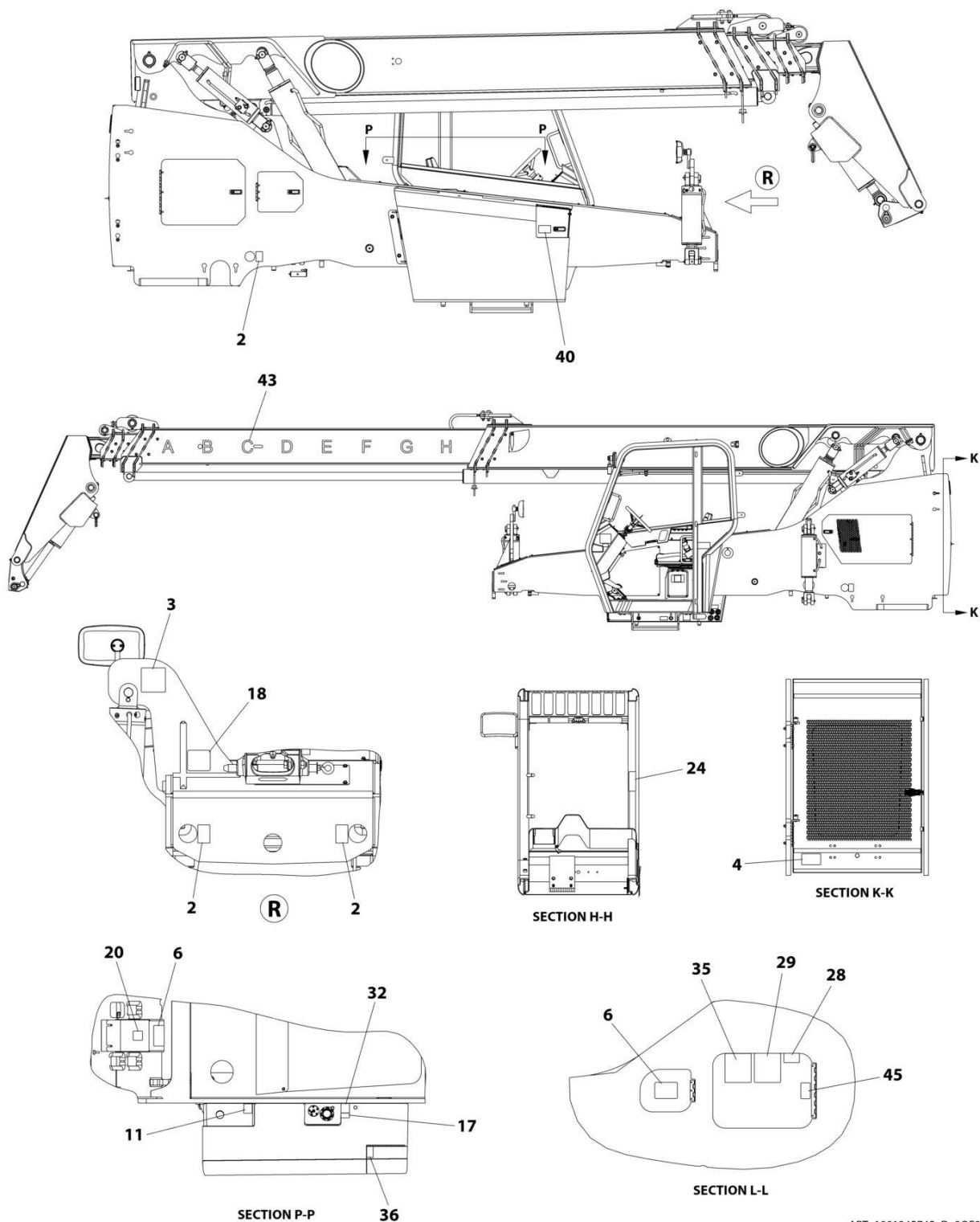
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FIGURE 11-6. DECALS INSTALLATION (130HP) (ENGLISH/SPANISH)



ART_1001245745_D_10F2

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ART_1001245745_D_20F2

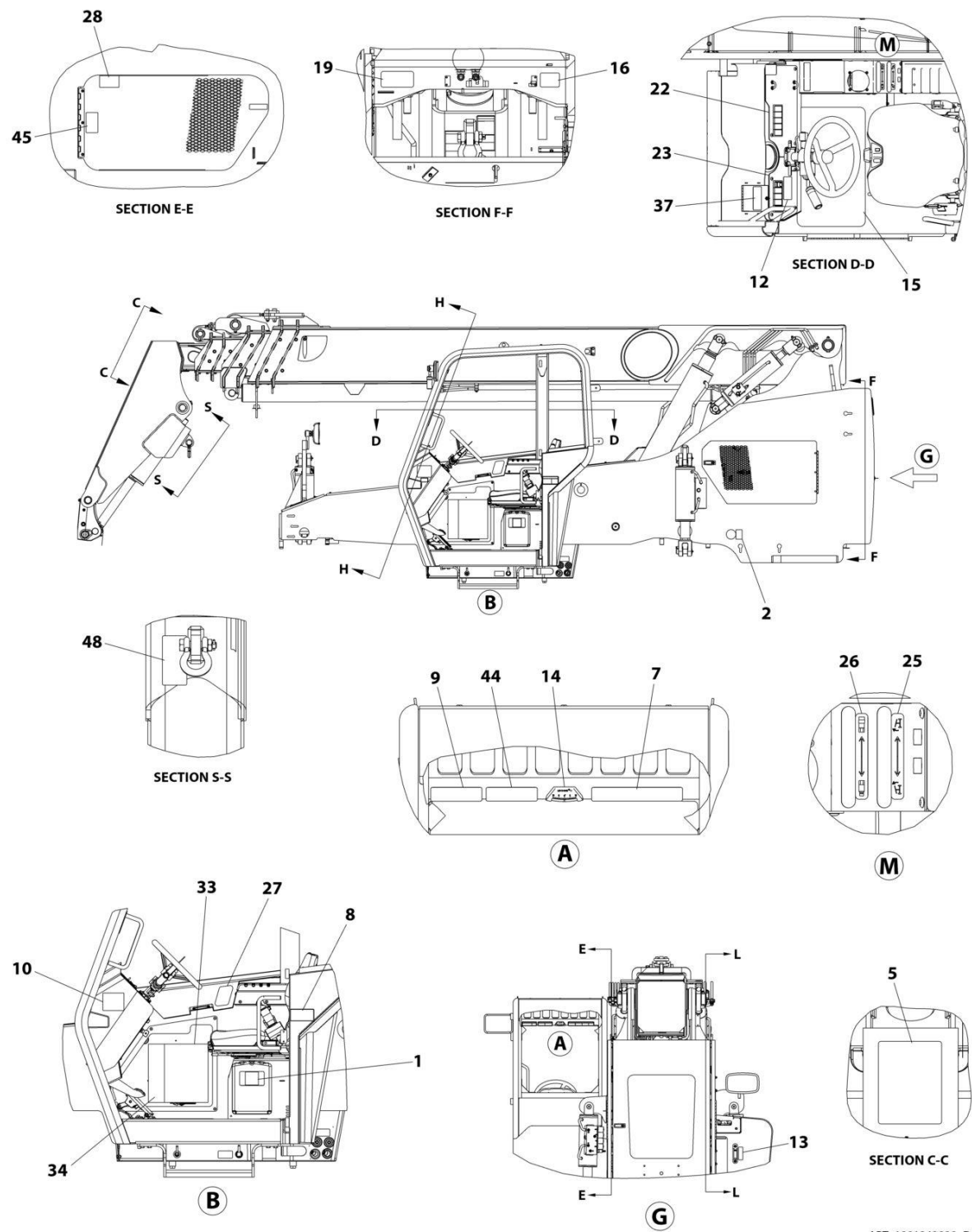
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FIGURE 11-6. DECALS INSTALLATION (130HP) (ENGLISH/SPANISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001245745	Ref	DECAL INSTALLATION (ENGLISH/SPANISH) (ULS)	D
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Bar Code (Note: Not Available for Purchase)	
4	1001235794	1	Decal, Battery Warning	
5	1001235796	1	Decal, Carry Personnel	
6	1001235798	2	Decal, Ether Starting Warning	
7	1001235801	1	Decal, Tip Over Warning	
8	1001235802	1	Decal, No Riders	
9	1001235803	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	1001242122	1	Decal, Outrigger	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
17	1001235804	2	Decal, Ultra Low Sulfur Diesel (SPAN)	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001235805	1	Decal, Hot Fluid Warning	
20	1001142452	1	Decal, No Step	
22	1001242172	1	Decal, RH Overlay	
23	1001242173	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001236312	2	Decal, MCO 110HP	
29	1001174152	1	Decal, Maintenance Chart	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel Logic Harness	
35	1001254736	1	Decal, Lubrication Chart	
36	1001196806	1	Decal, Diesel Exhaust Fluid	
37	1001219211	1	Decal, DEF Fluid	
39	See Note	NSS	SN Plate (Note: Stamped Part - Not Available for Purchase)	
40	1001242181	1	Decal, Cummins DEF Tank Service	
43	4107442	1	Decal, Boom Extend Letters	
44	1001235797	1	Decal, Electrocution Hazard	
45	1001235799	2	Decal, Moving Parts	
48	1001246078	1	Decal, Swinging Loads Boom Head	
49	1001242179	1	Decal, Danger Swinging Load	

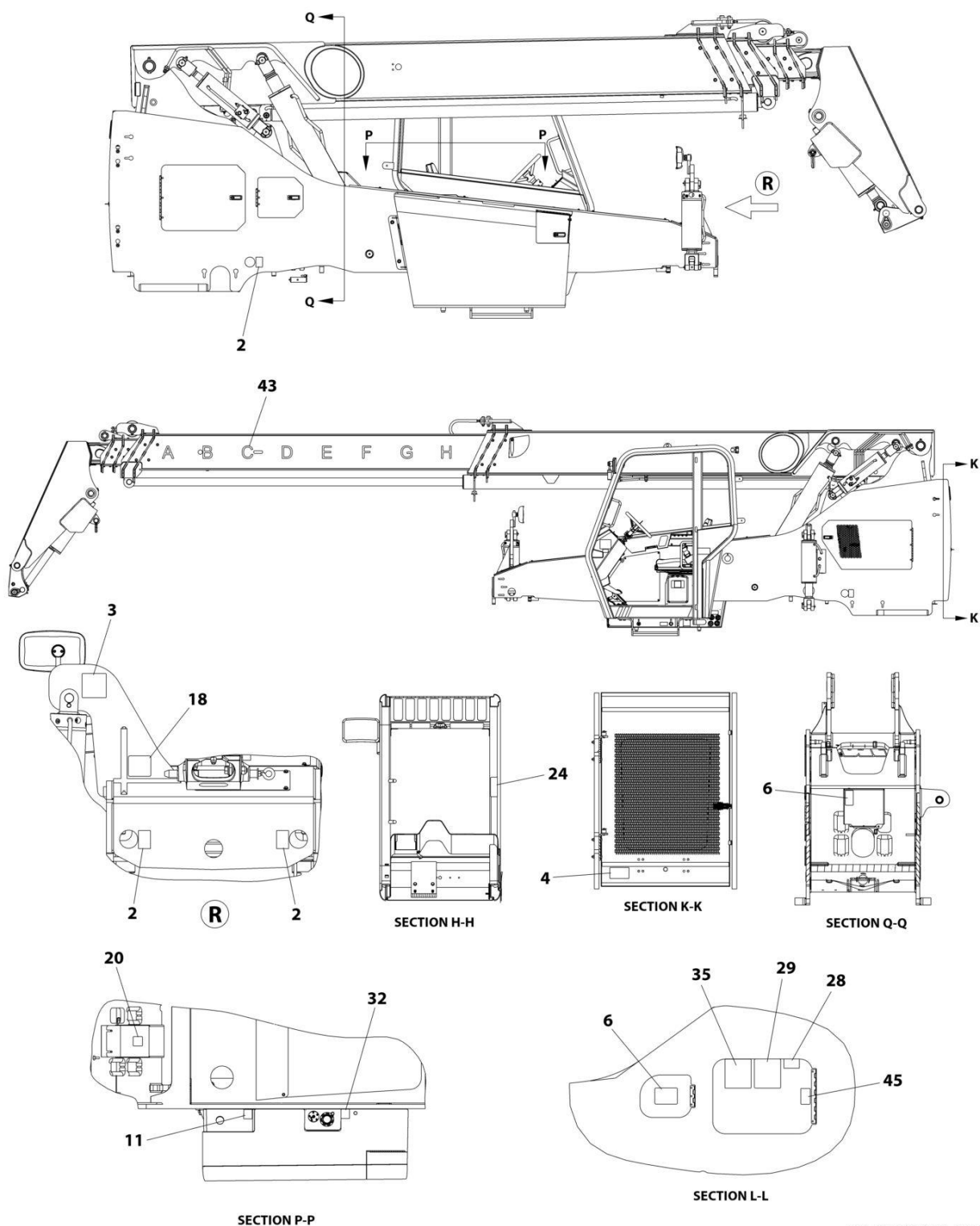
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FIGURE 11-7. DECALS INSTALLATION (130HP) (ISO)



ART_1001242929_D_10F2

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ART_1001242929_D_20F2

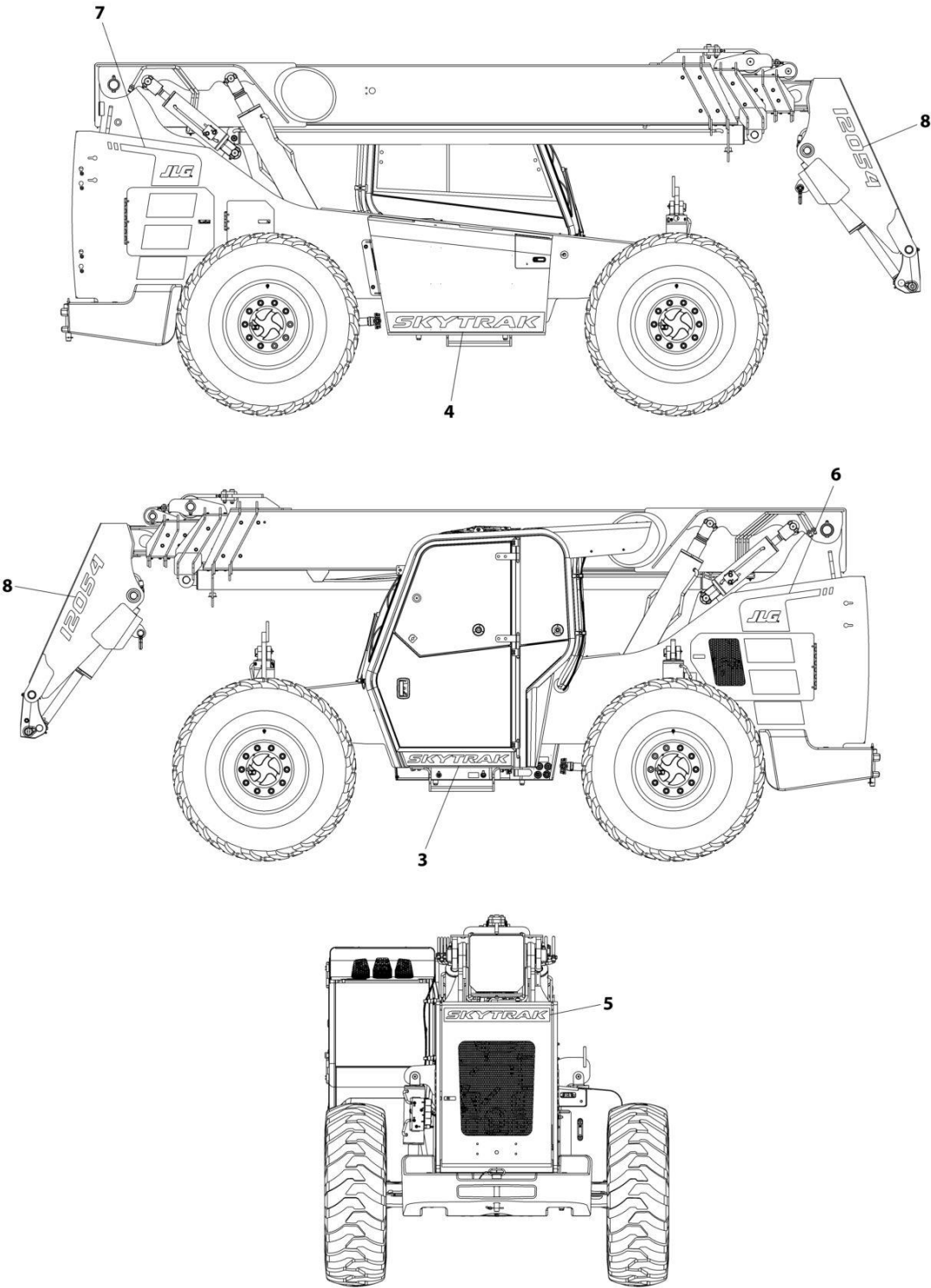
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FIGURE 11-7. DECALS INSTALLATION (130HP) (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242929	Ref	DECAL INSTALLATION (ISO)	D
1	1701640	1	Decal, Manual	
2	1702300	4	Decal, Tie Down	
3	See Note	NSS	Decal, Bar Code (Note: Not Available for Purchase)	
4	1706281	1	Decal, Battery Warning	
5	1706282	1	Decal, Carry Personnel	
6	1706098	2	Decal, Ether Starting Warning	
7	1706288	1	Decal, Tip Over Warning	
8	1001092878	1	Decal, No Riders	
9	1001092877	1	Decal, Crush Hazard Warning	
10	3251813	1	Decal, USA	
11	4100181	1	Decal, Hydraulic Oil Fill	
12	1706279	1	Decal, Warning Outrigger	
13	4108302	1	Decal, Hydraulic Oil Level	
14	8466306	1	Gage, Tilt Angle	
15	10139087	1	Tread, Safety	
16	1001109053	1	Decal, Coolant Fill	
18	1001131271	1	Decal, Telehandlers Patent	
19	1001139942	1	Decal, Hot Fluid Warning	
20	1001142452	1	Decal, No Step	
22	1001158321	1	Decal, RH Overlay	
23	1001158320	1	Decal, LH Overlay	
24	1001162734	1	Decal, Joystick Control	
25	1001162735	1	Decal, Sway Control	
26	1001162736	1	Decal, Auxiliary Control	
27	1001162737	1	Decal, Outrigger Control	
28	1001173422	2	Decal, MCO 110HP	
29	1001202627	1	Decal, Maintenance Chart (74HP)	
32	1001189017	1	Decal, Diesel Fuel Fill	
33	1001189327	1	Decal, Main Fuse Panel	
34	1001189328	1	Decal, Fuse Panel	
35	1001254736	1	Decal, Lubrication Chart	
37	1001219211	1	Decal, Brake Fluid	
43	4107442	1	Decal, Boom Extend Letters	
44	1706284	1	Decal, Electrocution Hazard	
45	1706285	2	Decal, Moving Parts	
48	1001207218	1	Decal, Danger Swinging Load	

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FIGURE 11-8. DECAL INSTALLATION (BRAND AND MODELS)



ART_1001259417

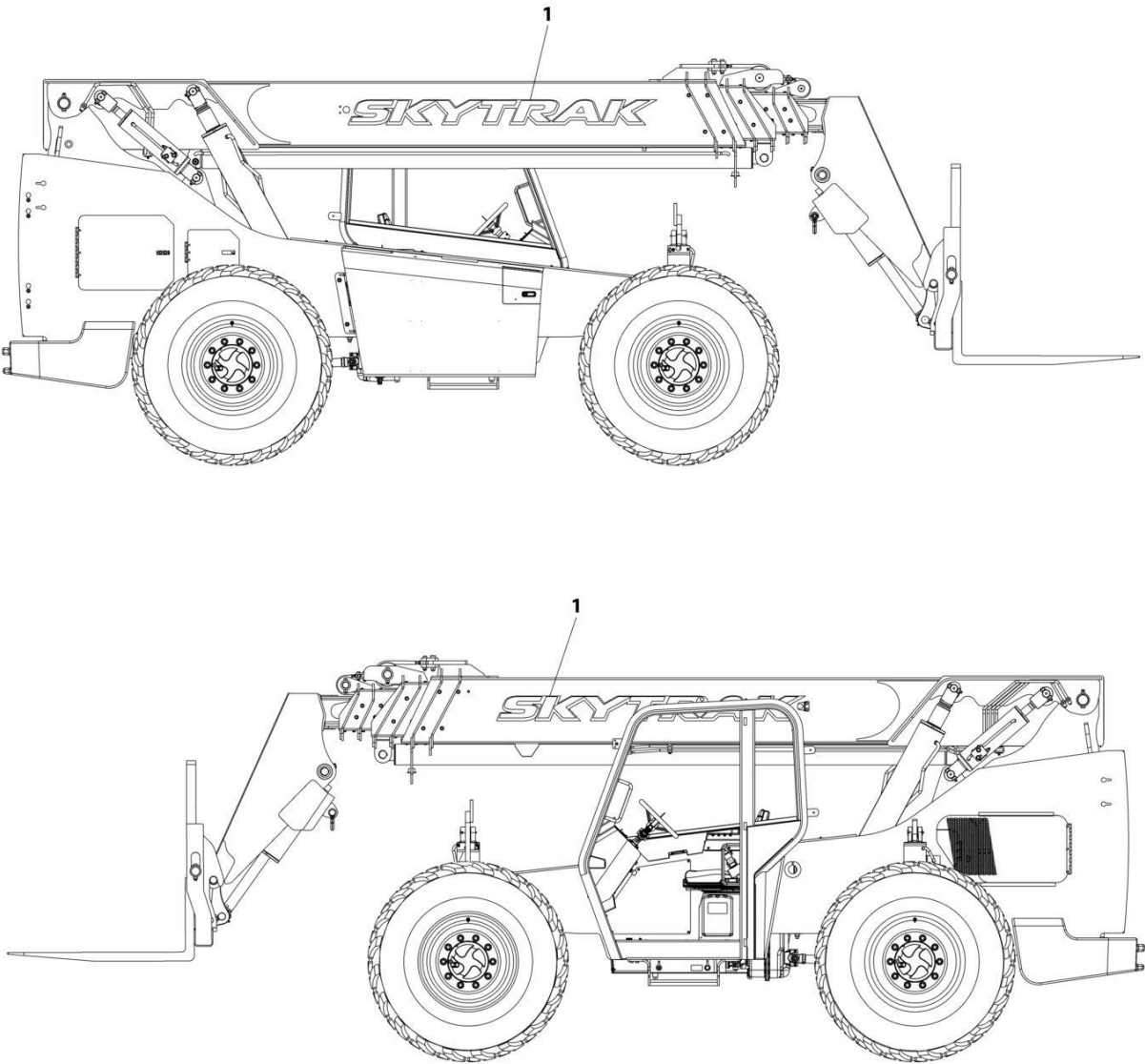
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FIGURE 11-8. DECAL INSTALLATION (BRAND AND MODELS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001259417	Ref	Decal Installation (Brand and Models)	B
3	1001259302	1	Decal, Cab Side	
4	1001259303	1	Decal, Tank Side	
5	1001259304	1	Decal, Rear Door	
6	1001259305	1	Decal, Left Side Stripe	
7	1001259306	1	Decal, Right Side Stripe	
8	1001262058	2	Decal, Model Boom Head	

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FIGURE 11-9. BOOM DECALS INSTALLATION (PVC 2011)



ART_1001244020_B

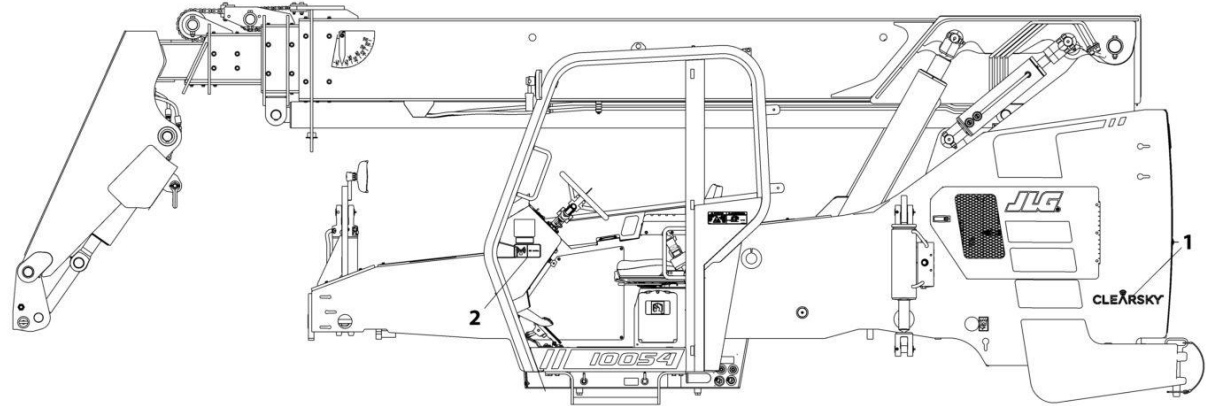
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FIGURE 11-9. BOOM DECALS INSTALLATION (PVC 2011)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001244020	Ref	Boom Decals Installation	B
	1001262057	2	Decal, Boom	

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FIGURE 11-10. CLEARSKY DECALS INSTALLATION



ART_1001229708-B

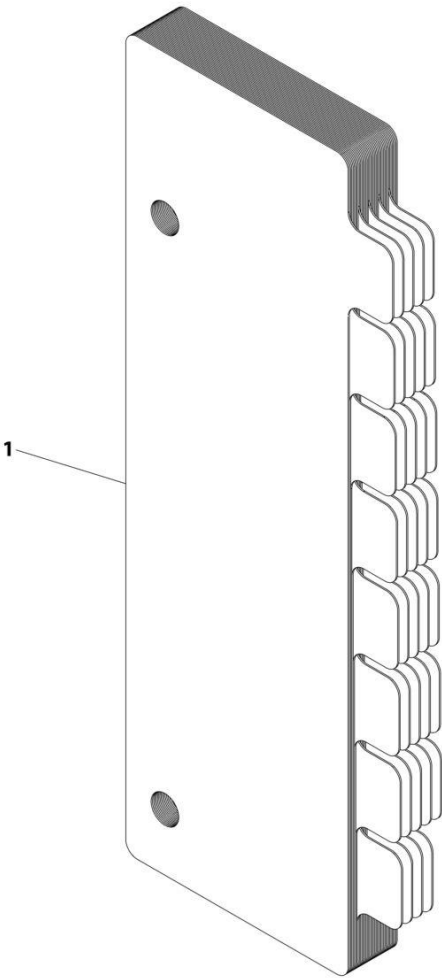
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FIGURE 11-10. CLEARSKY DECALS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229708	Ref	Clearsky Decal Installation	C
1	1001294815	1	Decal - ClearSky	
2	1001120989	1	Radio Frequency Decal	

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FIGURE 11-11. LOADCHART BOOKLET (ANSI)



ART_1001245474_C

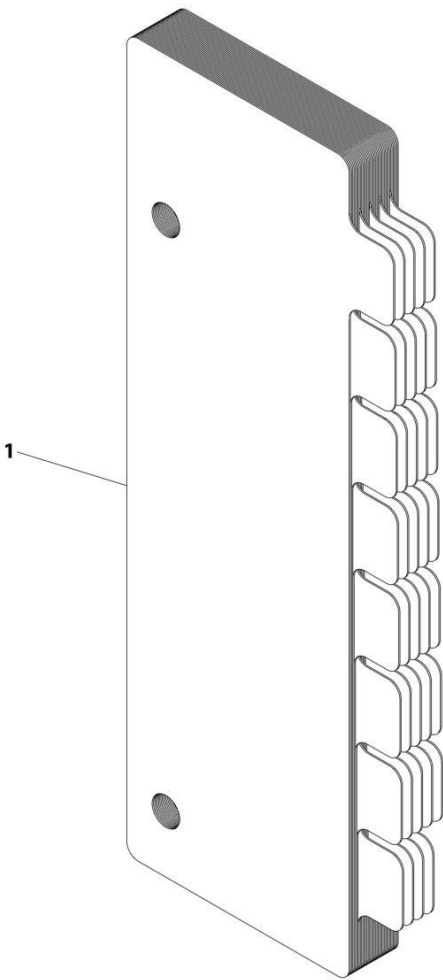
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FIGURE 11-11. LOADCHART BOOKLET (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001245474	Ref	Loadcharts (ANSI)	C

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FIGURE 11-12. LOADCHART BOOKLET (ISO)



ART_1001245475_B

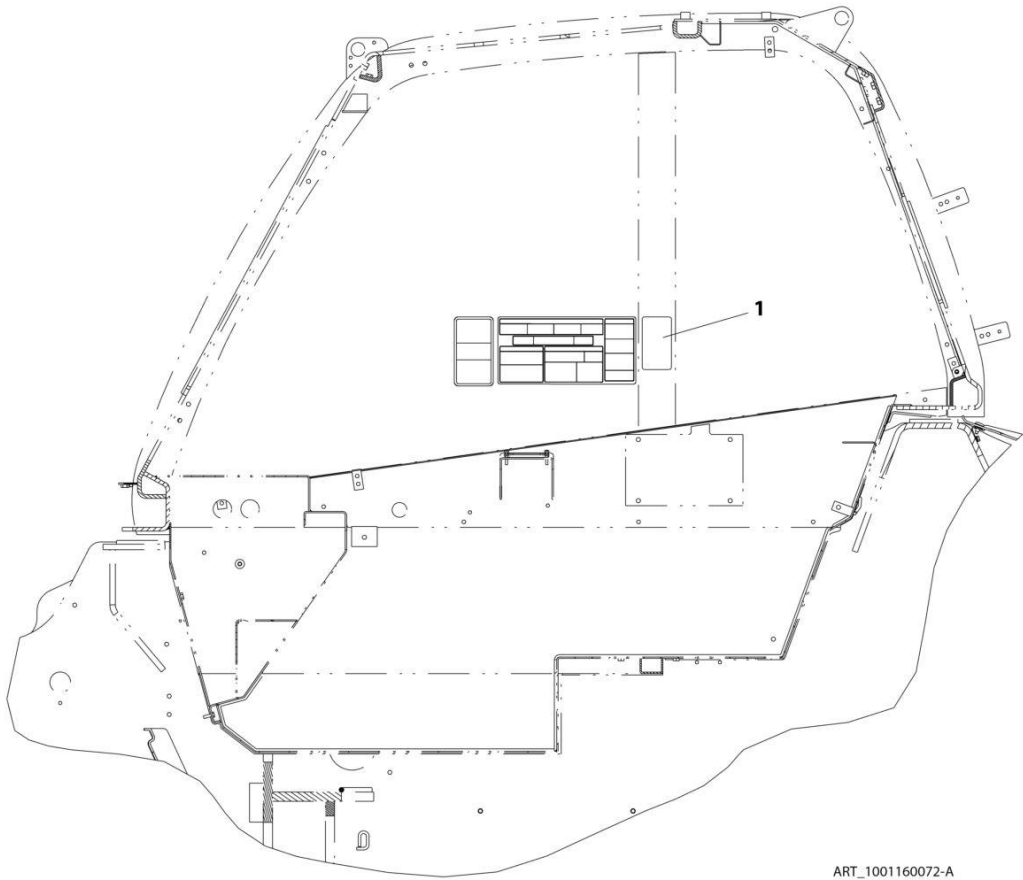
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FIGURE 11-12. LOADCHART BOOKLET (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001245475	Ref	Loadcharts (ISO)	B

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FIGURE 11-13. REVERSE SENSOR SYSTEM DECAL (ENGLISH)



ART_1001160072-A

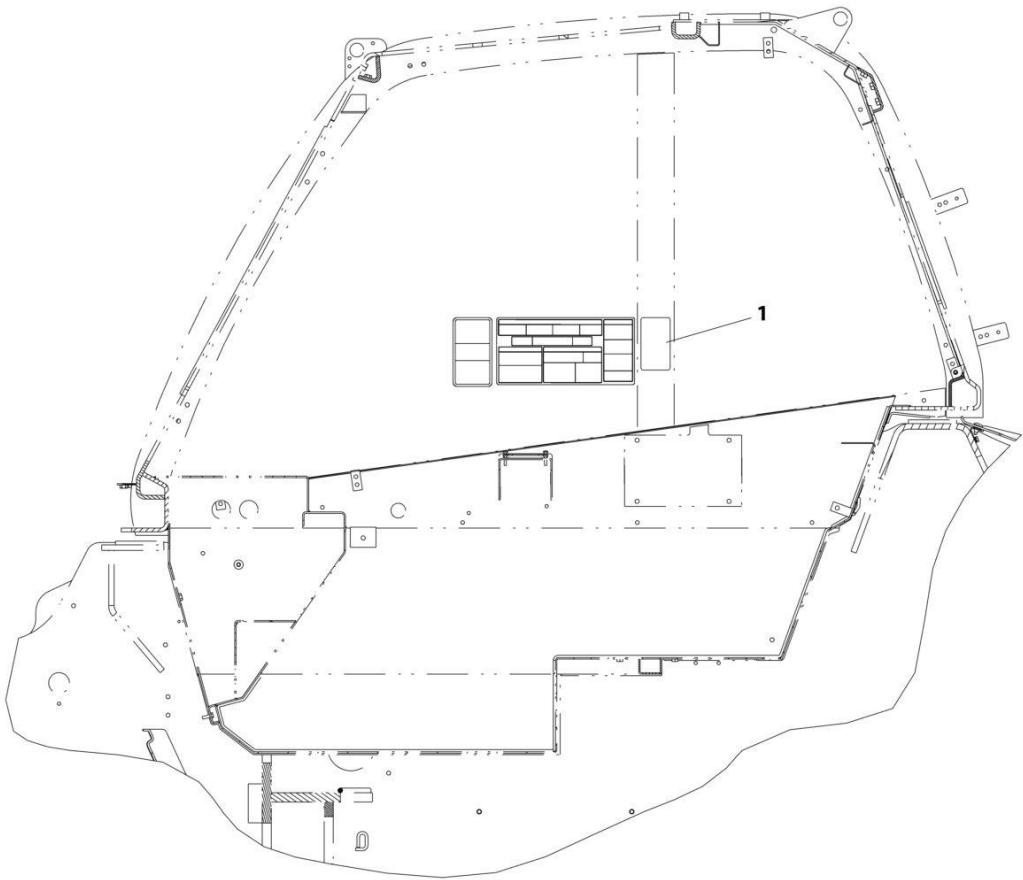
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FIGURE 11-13. REVERSE SENSOR SYSTEM DECAL (ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001160072	1	Reverse Sensor System Decal (English)	A

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FIGURE 11-14. REVERSE SENSOR SYSTEM DECAL (ENGLISH/FRENCH)



ART_1001160945-A

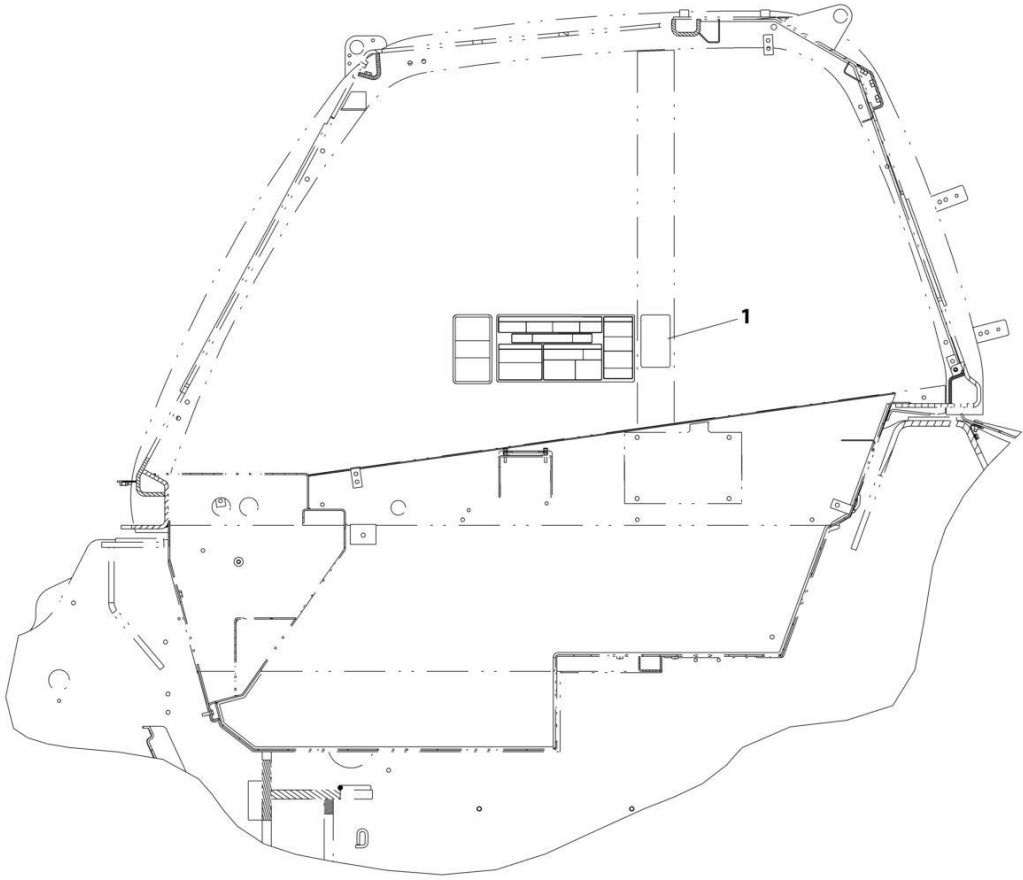
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FIGURE 11-14. REVERSE SENSOR SYSTEM DECAL (ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001160945	1	Reverse Sensor System Decal (ENGLISH/FRENCH)	A

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FIGURE 11-15. REVERSE SENSOR SYSTEM DECAL (ENGLISH/SPANISH)



ART_1001237846-A

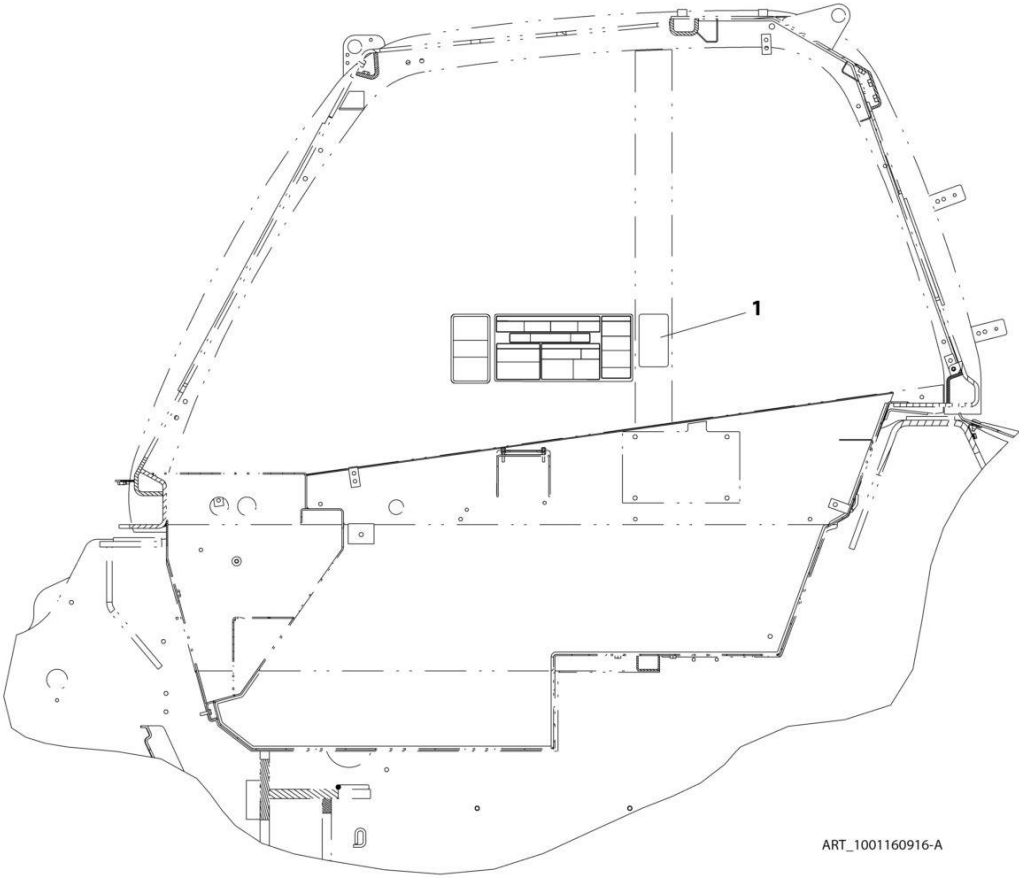
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FIGURE 11-15. REVERSE SENSOR SYSTEM DECAL (ENGLISH/SPANISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001237846	Ref	REVERSE SENSOR SYSTEM DECAL (ENGLISH/SPANISH LANGUAGES)	A

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FIGURE 11-16. REVERSE SENSOR SYSTEM DECAL (ISO)



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FIGURE 11-16. REVERSE SENSOR SYSTEM DECAL (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001160916	1	Reverse Sensor System Decal (ISO)	A

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SECTION 12 - RECOMMENDED SERVICE PARTS STOCK

SECTION 12 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 12-1. RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: The following list will service one machine (built to current production per date on the front cover) with emergency 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.	
	70026085	1	Coil (Frame Control Valve)	
	70026582	1	Coil (Steer Select Valve)	
	1001173581	1	Control, Auxiliary	
	1001173582	1	Control, Frame Level	
	1001210703	1	Controller (Cab)	
	1001203181	1	Control, Accessory (ASOV)	
	1001229458	1	Controller, Gateway (ClearSky)	
	1001158002	1	Control, JoyStick	
	1001159850	1	Control, Heater (Enclosed Cab with Heater)	
	1001159851	1	Control, HVAC (Enclosed Cab with Heater & AC)	
	1001247421	1	Control, Reverse Sensor	
	8223073	1	Control, Turn Signal (Roadlight Package)	
	1001199205	1	Element, Filter	
		Ref	Engine - ULS	
	70026453	12	Element, Fuel Filter (Secondary)	
	70026234	12	Element, Fuel Filter (Primary)	
	70026237	12	Filter, Oil	
	70025852	12	Filter, Air Cylindrical Primary	
	70025853	12	Filter, Air Cylindrical Secondary	
		Ref	Engine - LS	
	70026801	12	Element, Fuel Filter (Secondary)	
	70026234	12	Element, Fuel Filter (Primary)	
	1001133534	1	Filter, Fuel (LS Engine)	
	70026237	12	Filter, Oil	
	1101312	12	Filter, Air Cylindrical Primary	
	1101313	12	Filter, Air Cylindrical Secondary	
	7139077	1	Filler/Breather (Hydraulic Tank)	
	8229234	2	Fuse 10A	
	8229235	2	Fuse 20A	
	8229261	2	Fuse 5A	
	8229242	2	Fuse 5A	
	8229244	2	Fuse, 15 Amp (130HP ULS)	
	1001118245	2	Fuse, 250 Amp	
	8229243	2	Fuse, 7.5 AMP Mini	
	1001129285	2	Fuse, Mini Diode	
	1001127699	2	Fuse, Power Module	
	8229237	2	Fuse, 15 A	
	8229238	2	Fuse, 40 A	
	8229233	2	Fuse, 7.5 A	
	8035807	1	Key (Ignition)	
	70021948	1	Key (Cab Door)	
	70028514	1	Kit, Solenoid 12V (ASOV)	
	2940074	1	Latch	

SECTION 12 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228954	1	Module (ClearSky C.E.)	
	1001226796	1	Module (ClearSky N.A.)	
	1001226328	1	Module, 3W TCU (ClearSky ANSI)	
	1001233236	1	Module, 3W TCU (ClearSky C.E.)	
	3740080	1	Relay (ASOV)	
	1001095704	1	Relay	
	70026986	1	Relay, 12V 30/40A	
	1001186417	1	Relay, 150 Amp	
	1001205172	1	Relay, Micro 280, 12V, 35 Amp	
	1001184316	1	Relay, Power Module	
	1600429	1	Selector, Transmission Control	
	1001130307	1	Sensor, Boom	
	70025897	1	Solenoid (Piston Pump)	
	7029246	1	Solenoid Coil (Stabil-Trak)	
	1001215941	1	Switch (ASOV)	
	8223038	1	Switch, Beacon	
	8223025	1	Switch, Brake Lights (Roadlight Package)	
	8223060	1	Switch, Hazard (Roadlight Package)	
	4360690	1	Switch, Ignition	
	1001170269	1	Switch, Outtrigger	
	8223054	1	Switch, Park Brake	
	8223037	1	Switch, Steer Select	
	8223044	1	Switch, Windscreen Washer (Enclosed Cab)	
	8223043	1	Switch, Windscreen Wiper (Enclosed Cab)	
	8223059	1	Switch, Work Light (Roadlight & Worklight Package)	

SECTION 13 - SPECIAL OPTIONS/ACCESSORIES/KITS

SECTION 13 - SPECIAL OPTIONS/ACCESSORIES/KITS

FIGURE 13-1. SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	See Note	Ref	Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.	F
		Ref	SPECIAL OPTIONS/ACCESSORIES/KITS	
	1001243577	Ref	Access Control Kit	
	1001260645	Ref	Aftermarket Kits	
	1001239455	Ref	Backup Camera Kit	
	1001214398	Ref	Battery Disconnect Kit	
	1001261689	Ref	Boom Chain Kit - Fly Extend	
	1001261688	Ref	Boom Chain Kit - Inner Boom Extend	
	8024033	Ref	Boom Chain Kit - Fly Retract	
	1001261690	Ref	Boom Chain Kit - Inner Mid Boom Retract	
	2910996	Ref	Boom Wear Pads Kit	
	1001201455	Ref	Cab A/C Kit	
	1001280231	Ref	Cab Door Window Kit	
	1001201453	Ref	Cab Enclosure Kit	
	1001193427	Ref	Cab Enclosure Kit with Heater	
	1001193428	Ref	Cab Enclosure Kit with HVAC	
	1001201456	Ref	Cab Heater Kit	
	1001201454	Ref	Cab HVAC Kit	
	1001268341	Ref	Camera Kit - Multi-View Rear View	
	1001243183	Ref	ClearSky Telematics Kit - Canbus (North America)	
	1001243184	Ref	ClearSky Telematics Kit - Canbus (CE)	
	1001276923	Ref	ClearSky Telematics Add-on Kit (Contact JLG for Approved Countries)	
	1001261691	Ref	Cold Weather Kit	
	1001261692	Ref	Cold Weather LRC Kit	
	7028739	Ref	Compensation Cylinder Seal Kit	
	1001262231	Ref	Decal Kit	
	1001177168	Ref	Engine Removal Brackets Kit	
	8036502	Ref	Extend/Retract Cylinder Seal Kit	
	1001258010	Ref	Fender Kit	
	1001199737	Ref	Filter Kit - 500Hour	
	1001199738	Ref	Filter Kit - 1000Hour	
	1001239988	Ref	Fire Extinguisher Kit	
	8035720	Ref	Fork Tilt Cylinder Seal Kit	
	8035326	Ref	Frame Level Cylinder Seal Kit	
	1001201459	Ref	Lights - Beacon Lights Kit	
	1001201460	Ref	Lights - Worklight Kit	
	1001238893	Ref	Lights - Worklight Kit (LED)	
	1001251208	Ref	Lights, Roadlights Kit	
	1001253829	Ref	Reverse Sensing System Kit (All)	
	8036747	Ref	Stabil-Trak Cylinder Seal Kit	
		Ref	Tools for Service	
	70022871	Ref	Counter Support, ZF Transmission	
	70023174	Ref	Eye Bolt Assortment, ZF Transmission	
	70022872	Ref	Internal Extractor, 45-58mm, ZF Transmission	
	70026448	Ref	Spanner Wrench	
	70010239	Ref	Two-Armed Puller, 160-150mm, ZF Transmission	

SECTION 13 - SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001249695	Ref	Analyzer and Cable Kit	
	1001249941	Ref	Analyzer and Cable Kit (Battery Powered)	
	1001213885	Ref	White Noise Alarm Kit	

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