



Illustrated Parts Manual

***Model
1100SJ***

**PVC
2107**

**P/N
31219081**

May 30, 2022 - Rev C

ANSI



An Oshkosh Corporation Company

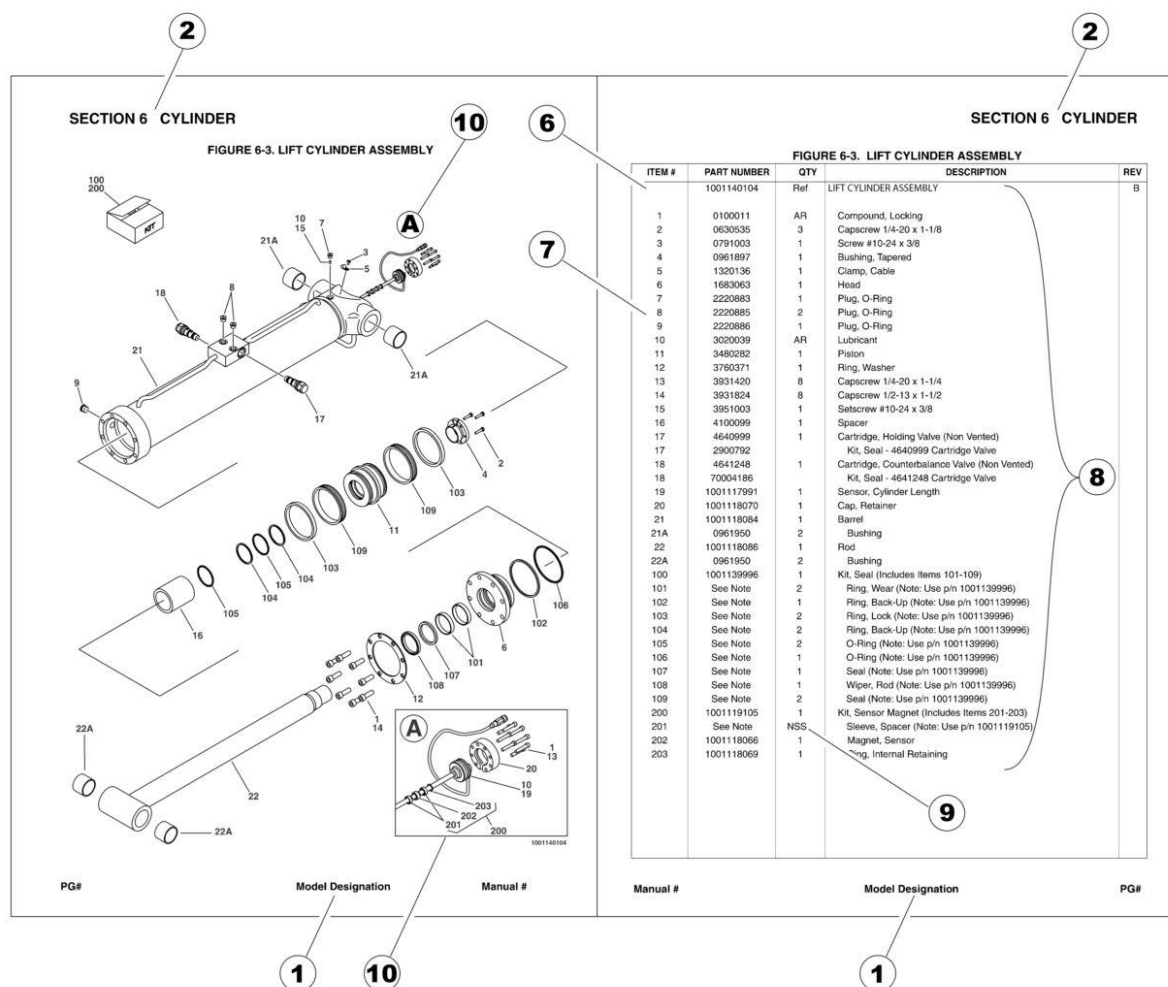
REVISION LOG

July 1, 2021 - A - Original Issue of Manual (Edited to B/M 1001261100 Revision J)

November 15, 2021 - B - Revised Manual (Edited to B/M 1001261100 Revision J)

May 30, 2022 - C - Revised Manual (Edited to B/M 1001261100 Revision J)

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
ADE..... Advanced Design Electronics
AG..... Agricultural
ANSI..... American National Standards Institute
AR..... As Required
ASSY..... Assembly
AUS..... Australia
AUX..... Auxiliary
AWG..... American Wire Gauge
B/M..... Bill of Material
CAC..... Charge Air Cooler
CE..... European Conformity
CCW..... Counter Clockwise
CM..... Centimeter
CW..... Clockwise
CSA..... Canadian Standards Association
CYL..... Cylinder
DIA..... Diameter
DC..... Direct Current
DEF..... Diesel Exhaust Fluid
EMS..... Emergency Stop
ENG..... Engine
FT(ft)..... Feet
GA(Ga)..... Gauge
HRC..... High Rated Countries
HVAC..... Heating, Ventilating, and Air Conditioning
HYD..... Hydraulic
Hz..... Hertz
ID..... Inside Diameter
IN..... inches
ISO..... International Organization for Standards
JIC..... Joint Industry Council
KG..... Kilogram

L..... Liter
LB(LBS)..... Pounds
LCD..... Liquid Crystal Display
LED..... Light Emitting Diodes
LH..... Left Hand
LRC..... Low Rated Countries
LSS..... Load Sensing System
M(m)..... Metric/Meter
MM(mm)..... Millimeter
mA..... Milliamps
NLA..... No Longer Available
NPT..... National Pipe Threads
NSS..... Not Sold Separately
OD..... Outside Diameter
ORB..... O-Ring Boss
ORFS..... O-Ring Face Seal
OZ (oz)..... Ounces
PG..... Page
PN..... Part Number
QT(qt.)..... Quarts
QTY..... Quantity
REF..... Reference
REV..... Revision Level
RH..... Right Hand
SAE..... Society of Automotive Engineers
SN..... Serial Number
SPEC(S)..... Specifications
T/T..... Turntable
UGM..... Universal Ground Module
V..... Volts
W..... Watts
#..... Number

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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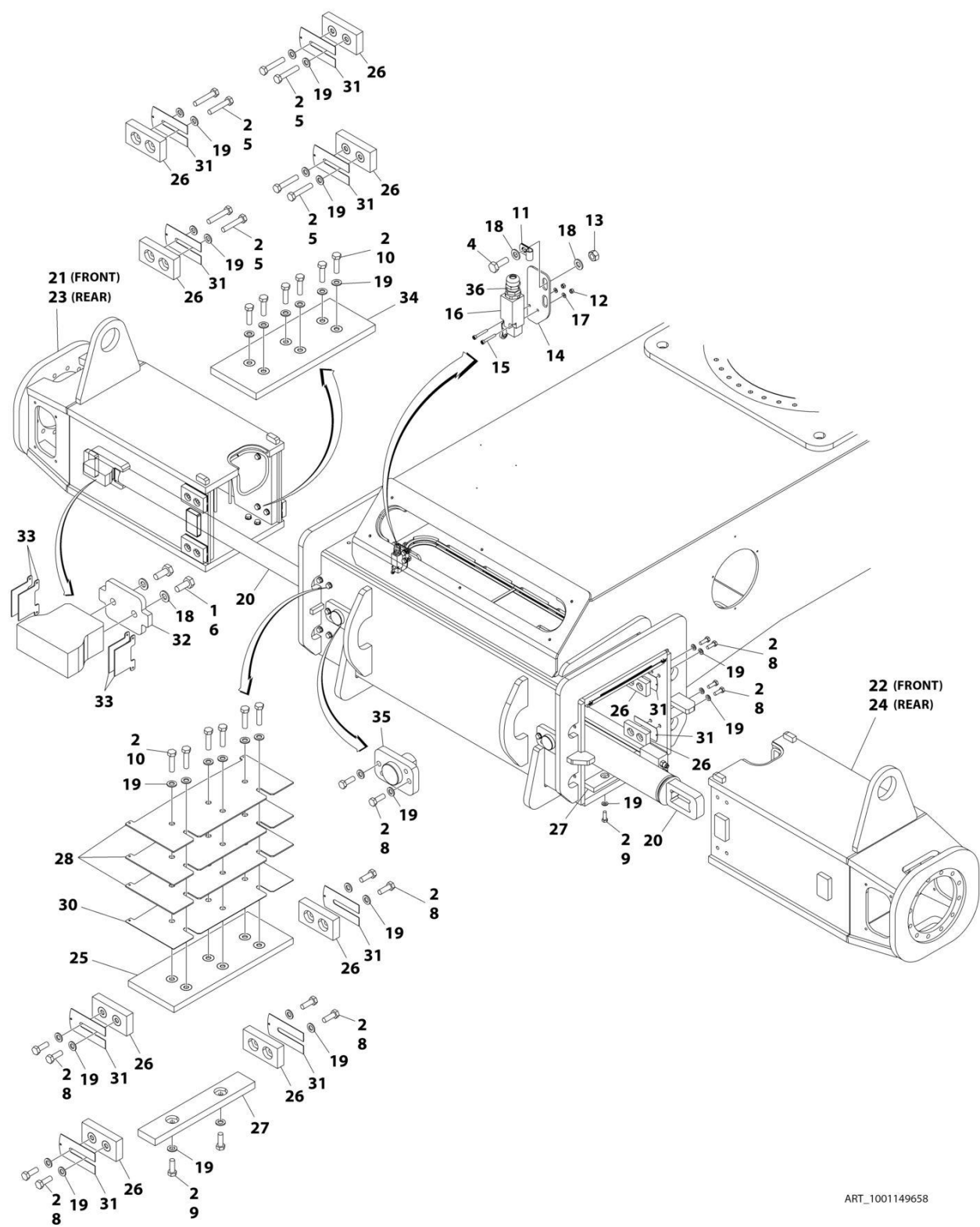
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SECTION 1 - FRAME

SECTION 1 - FRAME

FIGURE 1-1. AXLE INSTALLATION - 2WS



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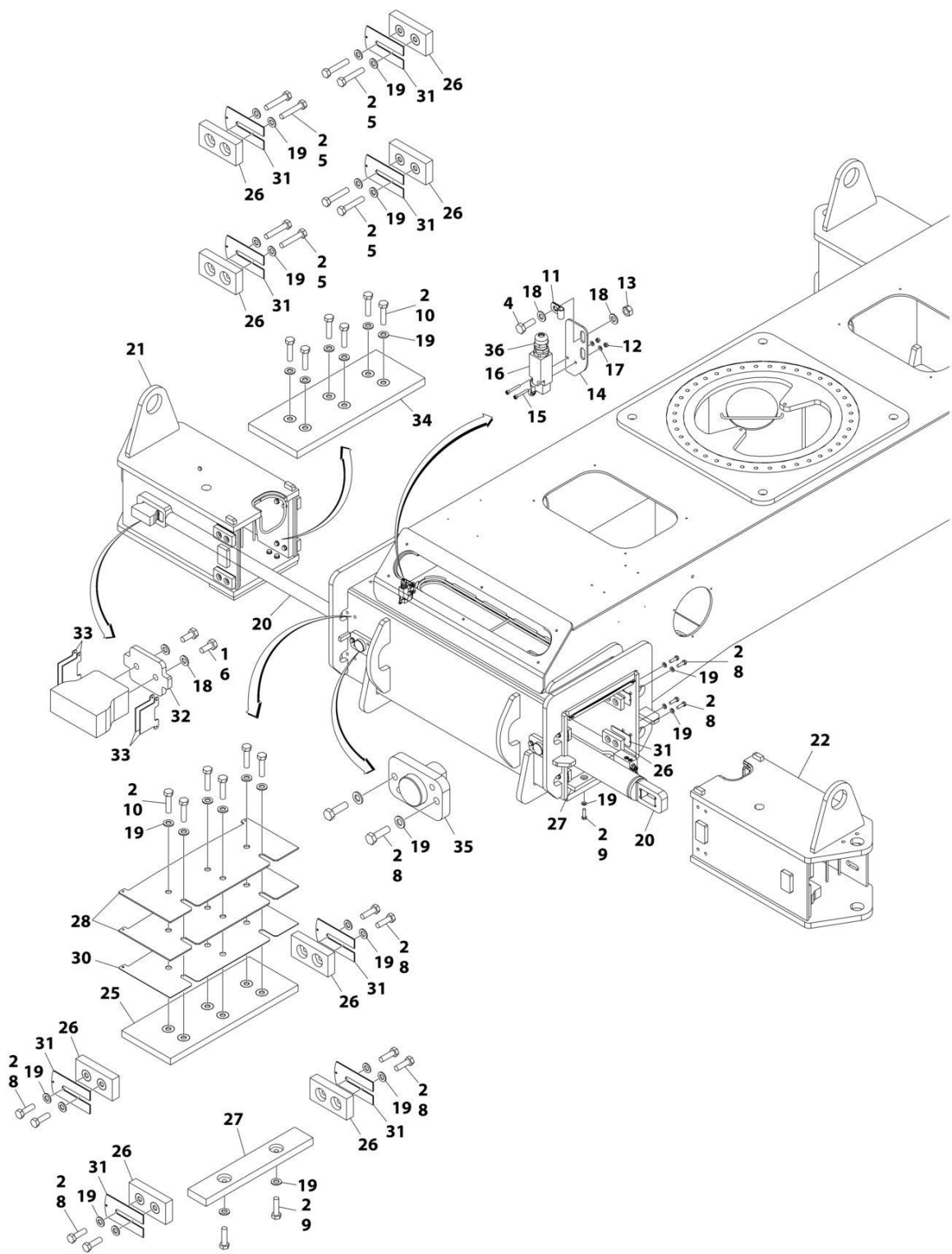
SECTION 1 - FRAME

FIGURE 1-1. AXLE INSTALLATION - 2WS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149658	Ref	AXLE INSTALLATION	G
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100081	AR	Adhesive (Not Shown)	
4	0701014	8	Bolt M10 x 30	
5	0701221	32	Bolt M12 x 65	
6	0761012	8	Bolt M10 x 25	
8	0761216	40	Bolt M12 x 40	
9	0761217	8	Bolt M12 x 45	
10	0761218	48	Bolt M12 x 50	
11	1320263	4	Clamp	
12	3290405	8	Nut M4	
13	3291007	8	Nut M10	
14	3573294	4	Plate, Switch	
15	4031510	8	Capscrew M4 x 30	
16	4360578	4	Switch, Limit	
17	4811400	8	Washer M4	
18	4812000	24	Washer M10	
19	4812100	128	Washer M12	
20	1001149464	2	Axle Extend Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
21	1001149671	1	Axle, Front (Left)	
22	1001149672	1	Axle, Front (Right)	
23	1001149785	1	Axle, Rear (Left)	
24	1001149786	1	Axle, Rear (Right)	
25	1001150320	4	Pad, Wear	
26	1001150321	32	Pad, Wear	
27	1001150322	4	Pad, Wear	
28	1001150323	8	Shim 3mm	
30	1001150325	8	Shim 1.2mm	
31	1001150326	64	Shim 1.2mm	
32	1001150407	4	Plate	
33	1001150408	16	Shim 1.5mm	
34	1001150458	4	Pad, Wear	
35	1001150558	4	Stop	
36	4460968	4	Connector, Strain Relief	

SECTION 1 - FRAME

FIGURE 1-2. AXLE INSTALLATION - 4WS



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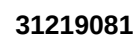
SECTION 1 - FRAME

FIGURE 1-2. AXLE INSTALLATION - 4WS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222642	Ref	AXLE INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100081	AR	Adhesive (Not Shown)	
4	0701014	8	Bolt M10 x 30	
5	0701221	32	Bolt M12 x 65	
6	0761012	8	Bolt M10 x 25	
8	0761216	40	Bolt M12 x 40	
9	0761217	8	Bolt M12 x 45	
10	0761218	48	Bolt M12 x 50	
11	1320263	4	Clamp	
12	3290405	8	Nut M4	
13	3291007	8	Nut M10	
14	3573294	4	Plate, Switch	
15	4031510	8	Capscrew M4 x 30	
16	4360578	4	Switch, Limit	
17	4811400	8	Washer M4	
18	4812000	24	Washer M10	
19	4812100	128	Washer M12	
20	1001149464	2	Axle Extend Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
21	1001149671	1	Axle, Front (Left)	
22	1001149672	1	Axle, Front (Right)	
25	1001150320	4	Pad, Wear	
26	1001150321	32	Pad, Wear	
27	1001150322	4	Pad, Wear	
28	1001150323	8	Shim 3mm	
30	1001150325	8	Shim 1.2mm	
31	1001150326	64	Shim 1.2mm	
32	1001150407	4	Plate	
33	1001150408	16	Shim 1.5mm	
34	1001150458	4	Pad, Wear	
35	1001150558	4	Stop	
36	4460968	4	Connector, Strain Relief	

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1100SJ



ART 1001149657

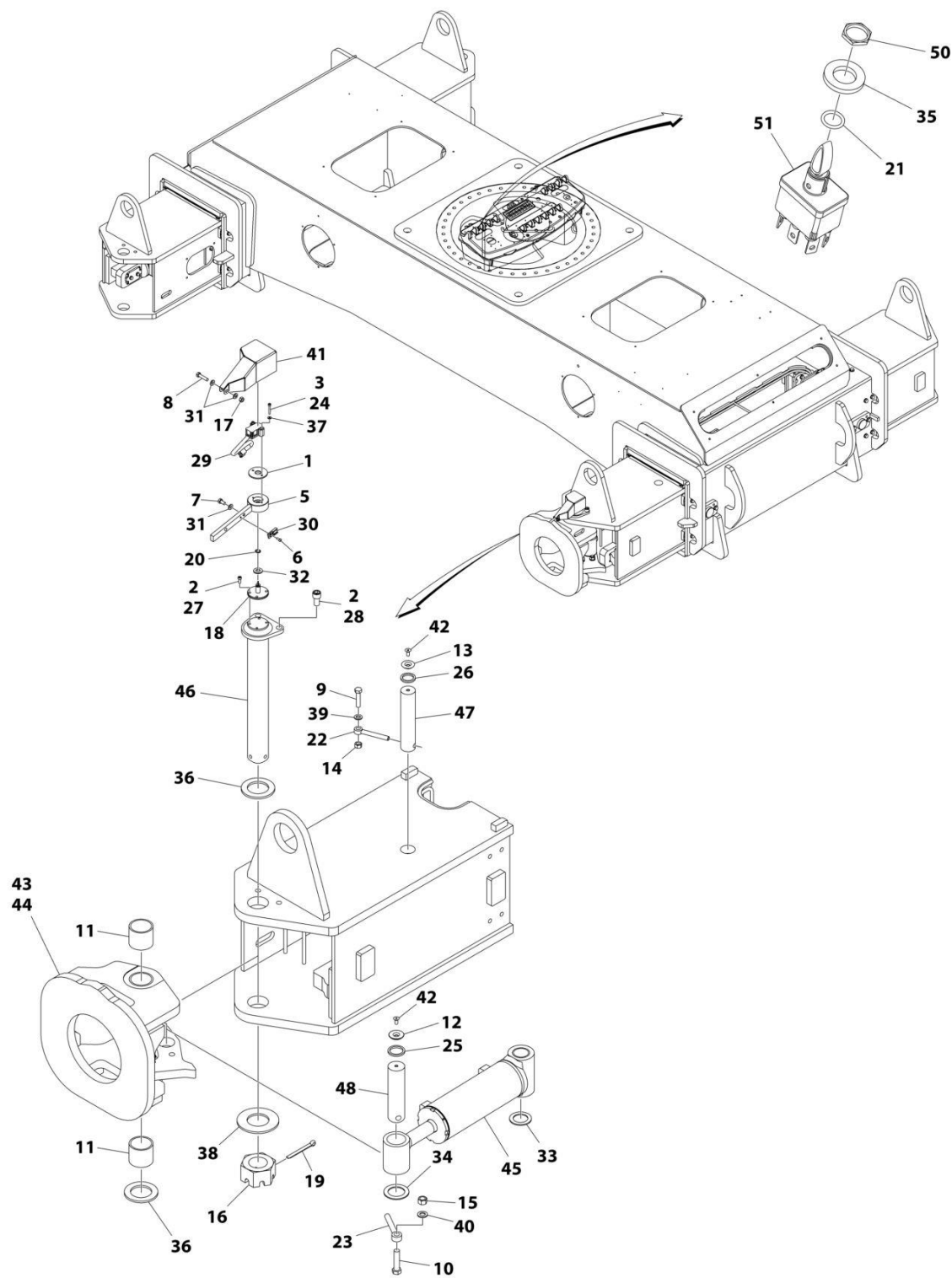
SECTION 1 - FRAME

FIGURE 1-3. STEER INSTALLATION - 2WS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149657	Ref	STEER INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100035	AR	Compound, Locking	
4	0080277	2	Adapter, Sensor	
5	0200833	2	Arm, Sensor	
6	0630464	2	Screw #10 x 1/2	
7	0641505	2	Bolt 5/16 x 5/8	
8	0641511	2	Bolt 5/16 x 1-3/8	
9	0701219	2	Bolt M12 x 55	
10	0701622	2	Bolt M16 x 70	
11	0962423	4	Bearing	
12	1120549	2	Cap (Outer)	
13	1120550	2	Cap (Inner)	
14	3291207	2	Nut M12	
15	3291607	2	Nut M16	
16	3300464	2	Nut	
17	3311505	2	Nut 5/16	
18	3423256	2	Pin, Sensor	
19	3451214	2	Pin 3/8 x 3-1/2	
20	3760383	2	Ring	
21	3841203	2	Keeper, Rod	
22	3841258	2	Keeper, Rod	
23	3931020	4	Capscrew #10 x 1-1/4	
24	3960551	2	Seal (Outer)	
25	3960552	2	Seal (Inner)	
26	4031707	8	Capscrew M6 x 16	
27	4032310	4	Capscrew M16 x 30	
28	4360505	2	Switch, Sensor	
29	4460914	2	Mount, Terminal	
30	4711500	6	Washer 5/16	
31	4711800	2	Washer 1/2	
32	4740181	2	Washer	
33	4740229	2	Washer	
34	4740505	4	Washer	
35	4750800	4	Washer #8	
36	4755000	2	Washer 2-1/2	
37	4812100	2	Washer M12	
38	4812300	2	Washer M16	
39	1001109730	2	Cover, Sensor	
40	1001137125	4	Screw M8 x 20	
41	1001149440	1	Spindle (Left)	
42	1001149441	1	Spindle (Right)	
43	1001149463	2	Steer Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
44	1001150418	2	Kingpin	
45	1001150419	2	Pin (Inner)	
46	1001150460	2	Pin (Outer)	

SECTION 1 - FRAME

FIGURE 1-4. STEER INSTALLATION - 4WS



ART_1001222688

FIGURE 1-4. STEER INSTALLATION - 4WS

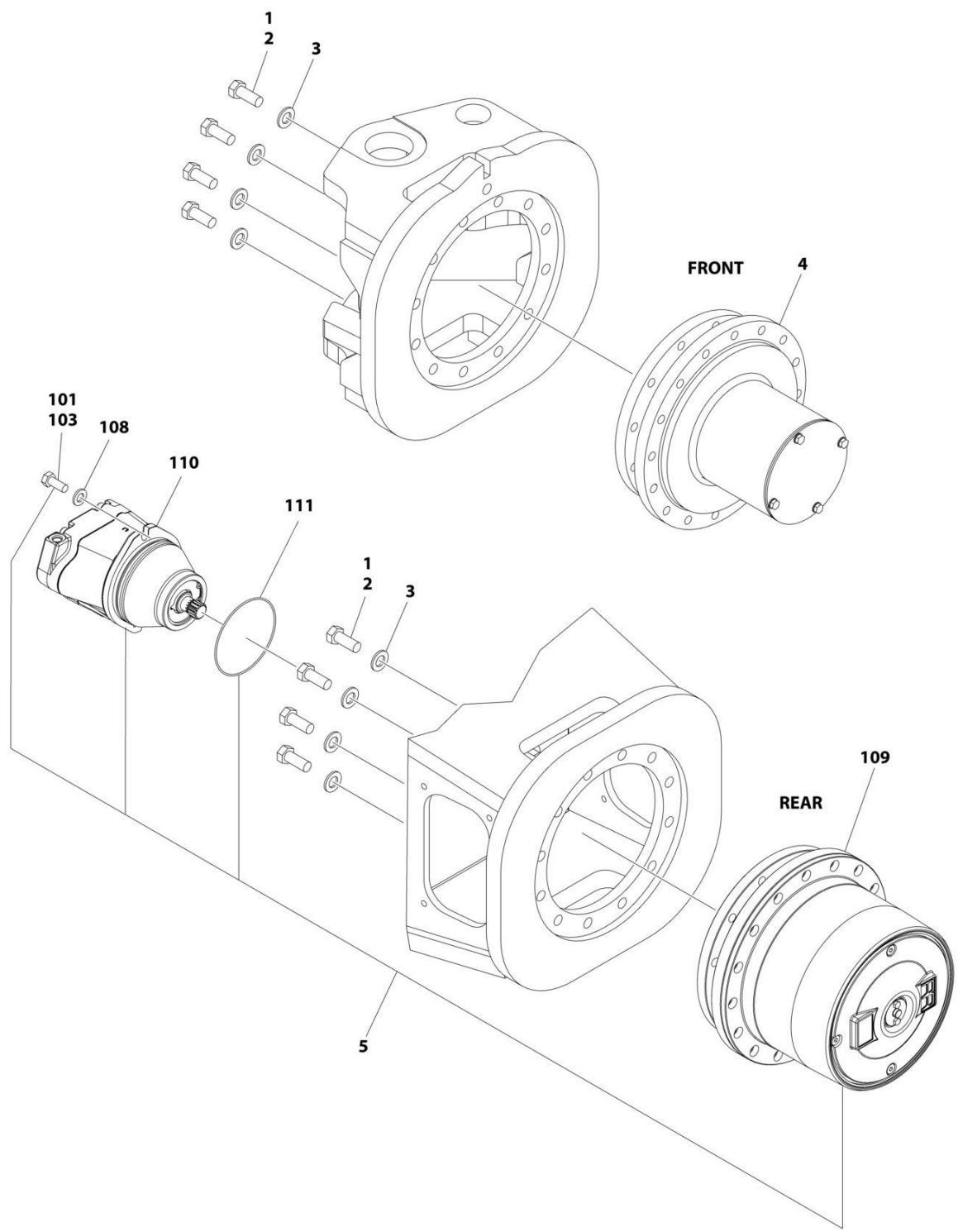
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222688	Ref	STEER INSTALLATION	A
1	0080277	4	Adapter, Sensor	
2	0100011	AR	Compound, Locking	
3	0100019	AR	Compound, Locking	
4	0100035	AR	Compound, Locking (Not Shown)	
5	0200833	4	Arm, Sensor	
6	0630464	4	Screw #10 x 1/2	
7	0641505	4	Bolt 5/16 x 5/8	
8	0641511	4	Bolt 5/16 x 1-3/8	
9	0701219	4	Bolt M12 x 55	
10	0701622	4	Bolt M16 x 70	
11	0962423	8	Bearing	
12	1120549	4	Cap (Outer)	
13	1120550	4	Cap (Inner)	
14	3291207	4	Nut M12	
15	3291607	4	Nut M16	
16	3300464	4	Nut	
17	3311505	4	Nut 5/16	
18	3423256	4	Pin, Sensor	
19	3451214	4	Pin 3/8 x 3-1/2	
20	3760383	4	Ring	
21	3790012	1	O-Ring	
22	3841203	4	Keeper, Rod	
23	3841258	4	Keeper, Rod	
24	3931020	8	Capscrew #10 x 1-1/4	
25	3960551	4	Seal (Outer)	
26	3960552	4	Seal (Inner)	
27	4031707	16	Capscrew M6 x 16	
28	4032310	4	Capscrew M16 x 30	
29	4360505	4	Switch, Sensor	
30	4460914	4	Mount, Terminal	
31	4711500	12	Washer 5/16	
32	4711800	4	Washer 1/2	
33	4740181	4	Washer	
34	4740229	4	Washer	
35	4740397	1	Spacer	
36	4740505	8	Washer	
37	4750800	8	Washer #8	
38	4755000	4	Washer 2-1/2	
39	4812100	4	Washer M12	
40	4812300	4	Washer M16	
41	1001109730	4	Cover, Sensor	
42	1001137125	8	Screw M8 x 20	
43	1001149440	2	Spindle (Left)	
44	1001149441	2	Spindle (Right)	
45	1001149463	4	Steer Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
46	1001150418	4	Kingpin	
47	1001150419	4	Pin (Inner)	
48	1001150460	4	Pin (Outer)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	1001152574	2	Axle Power Track Harness (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
50	1001155044	1	Nut 15/32	
51	1001161709	1	Switch, Toggle	

SECTION 1 - FRAME

FIGURE 1-5. WHEEL DRIVE INSTALLATION - 2WD



ART_1001150018

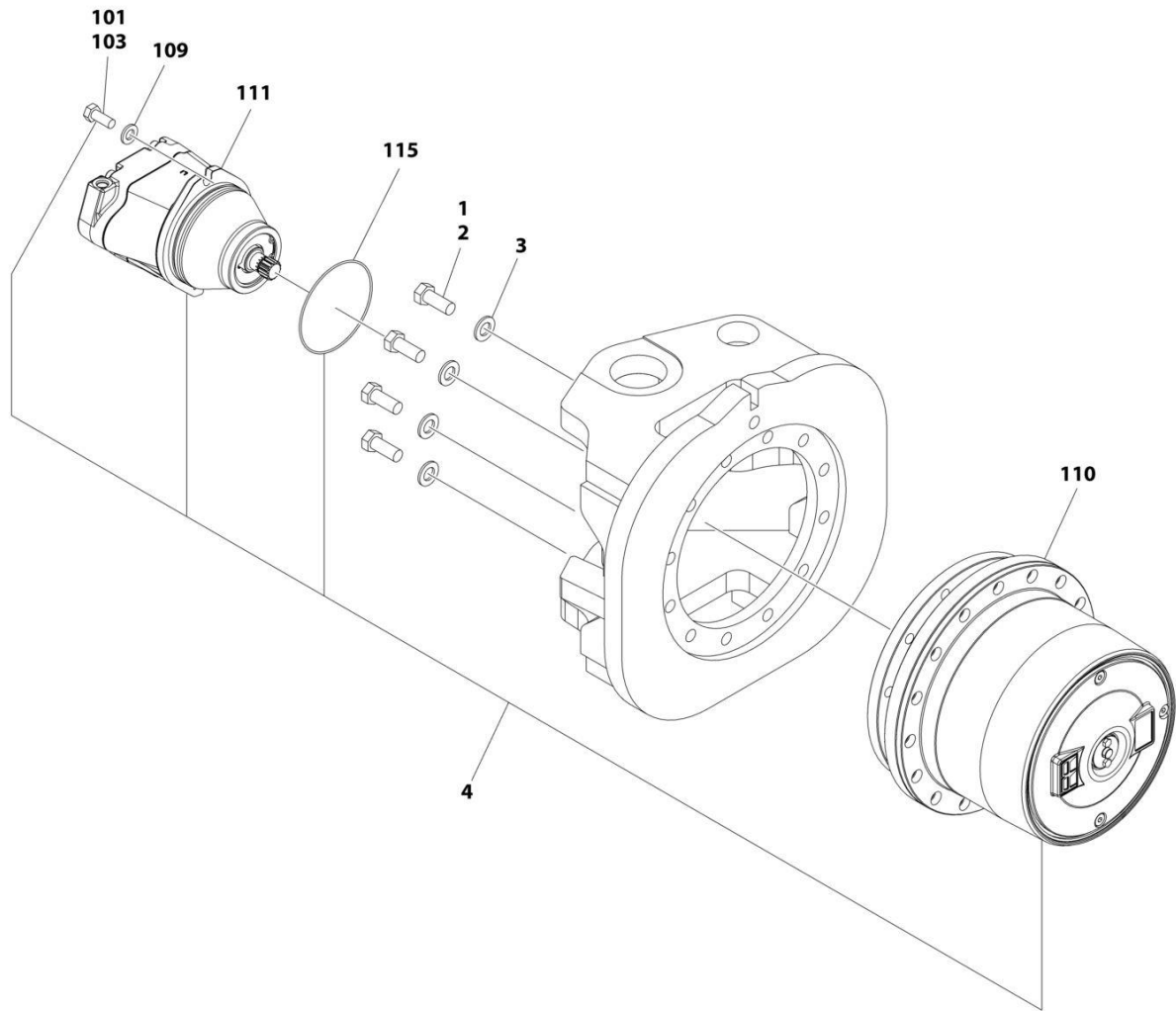
SECTION 1 - FRAME

FIGURE 1-5. WHEEL DRIVE INSTALLATION - 2WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150018	Ref	WHEEL DRIVE INSTALLATION - 2WD	C
1	0100019	AR	Compound, Locking	
2	0761616	48	Bolt M16 x 40	
3	5241600	48	Washer M16	
4	1001146251	2	Drive Hub Assembly - 2WD Front (See Separate Breakdown in this Section)	
5	1001151094	2	Drive Hub/Motor Assembly - 2WD Rear	E
101	0100011	AR	Compound, Locking	
103	0761214	4	Bolt M12 x 30 (2 Per Assembly)	
108	5241200	4	Washer M12 (2 Per Assembly)	
109	1001101550	2	Drive Hub Assembly (1 Per Assembly) (See Separate Breakdown in this Section)	
110	1001149458	2	Drive Motor Assembly - 2WD (1 Per Assembly) (See Separate Breakdown in this Section)	
111	3790158	2	O-Ring	

SECTION 1 - FRAME

FIGURE 1-6. WHEEL DRIVE INSTALLATION - 4WD



ART_1001150017

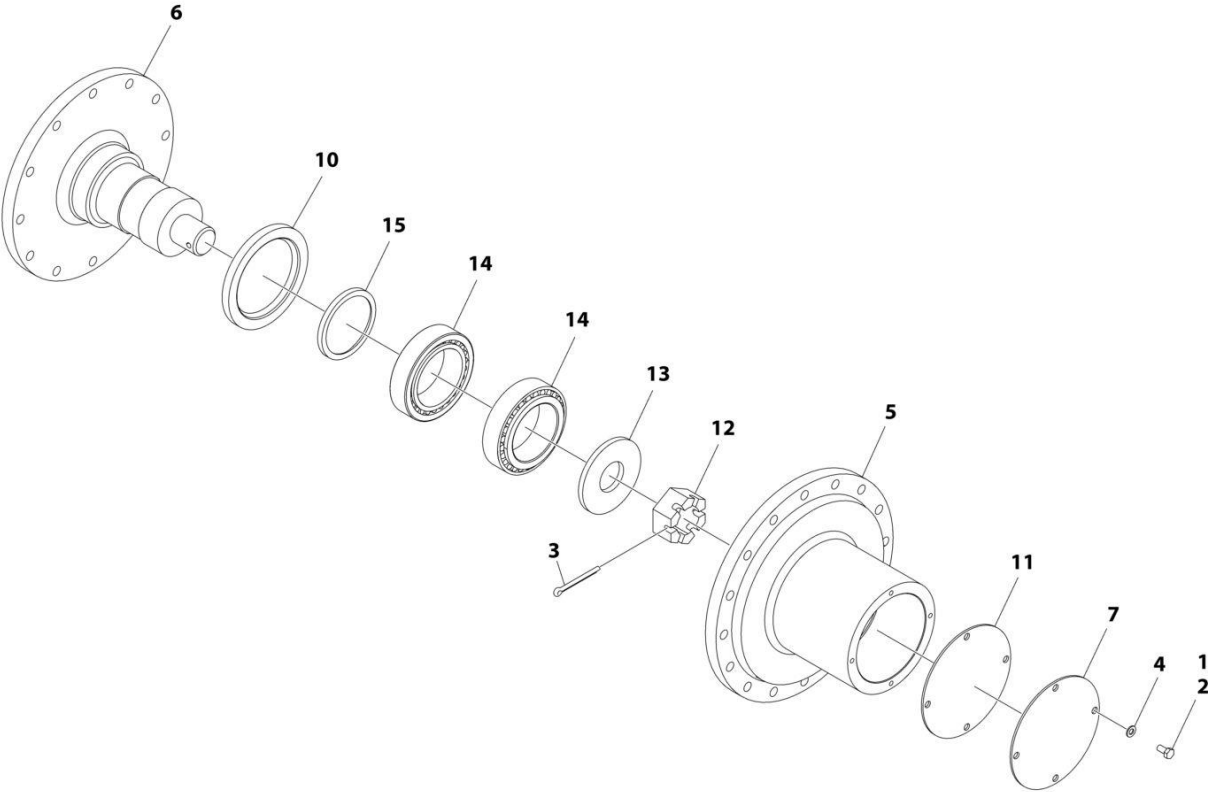
SECTION 1 - FRAME

FIGURE 1-6. WHEEL DRIVE INSTALLATION - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150017	Ref	WHEEL DRIVE INSTALLATION - 4WD	D
1	0100019	AR	Compound, Locking	F
2	0761616	48	Bolt M16 x 40	
3	5241600	48	Washer M16	
4	1001151092	4	Drive Hub/Motor Assembly	
101	0100011	AR	Compound, Locking	
103	0761214	8	Bolt M12 x 30 (2 Per Assembly)	
109	5241200	8	Washer M12 (2 Per Assembly)	
110	1001101550	4	Drive Hub Assembly (1 Per Assembly) (See Separate Breakdown in this Section)	
111	1001149456	4	Drive Motor Assembly - 2WD (1 Per Assembly) (See Separate Breakdown in this Section)	
115	3790158	4	O-Ring	

SECTION 1 - FRAME

FIGURE 1-7. DRIVE HUB ASSEMBLY - 2WD FRONT



ART_1001146251

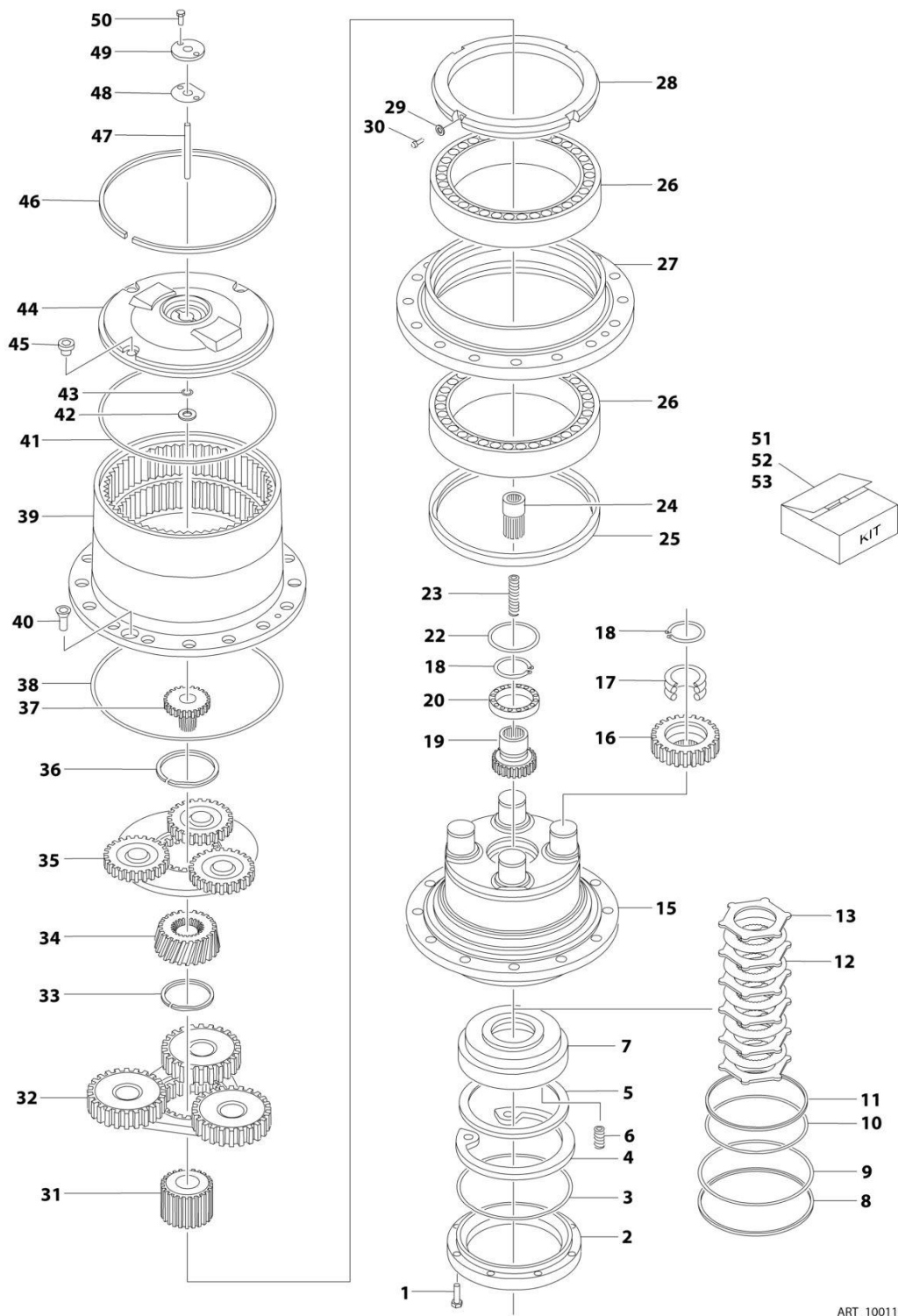
SECTION 1 - FRAME

FIGURE 1-7. DRIVE HUB ASSEMBLY - 2WD FRONT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001146251	Ref	DRIVE HUB ASSEMBLY - 2WD FRONT	D
1	0100071	AR	Adhesive	
2	0760808	4	Bolt M8 x 16	
3	3450810	1	Pin, Cotter 1/4 x 2-1/2	
4	4811900	4	Washer M8	
5	1001146249	1	Hub	
6	1001146250	1	Spindle	
7	1001146253	1	Cap	
10	1001149680	1	Seal	
11	1001149681	1	Gasket	
12	1001149742	1	Nut	
13	1001149865	1	Washer	
14	1001210887	2	Bearing	
15	1001211508	1	Spacer	

SECTION 1 - FRAME

FIGURE 1-8. DRIVE HUB ASSEMBLY



ART_1001101550

FIGURE 1-8. DRIVE HUB ASSEMBLY

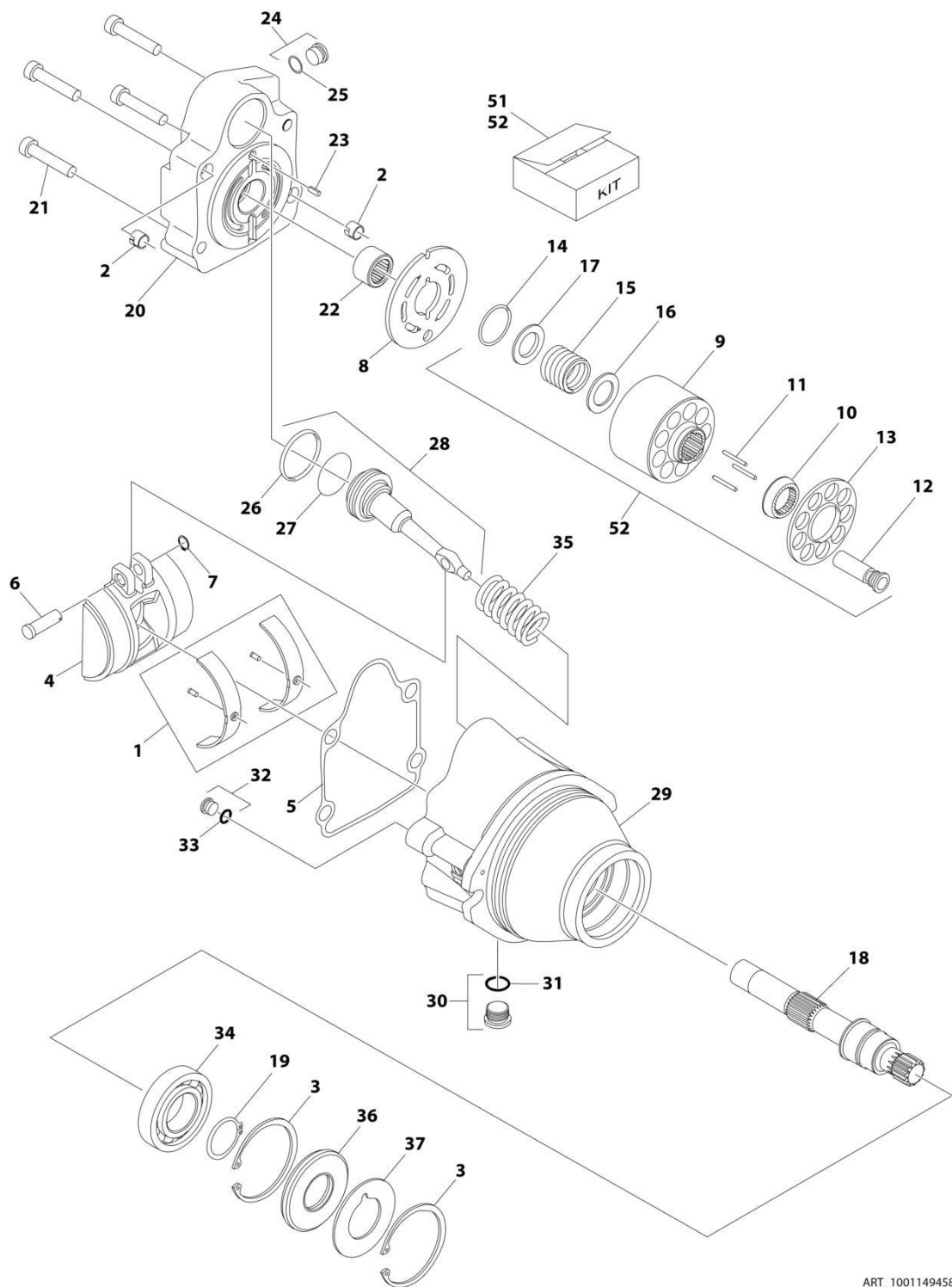
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101550	Ref	DRIVE HUB ASSEMBLY	E
1	70002015	8	Bolt M8 x 25	
2	70002016	1	Ring, Motor Support	
3	See Note	NSS	O-Ring (Note: Use Item 51)	
4	70002018	1	Snap Ring	
5	70002019	1	Retainer, Spring	
6	70002020	9	Spring	
7	See Note	NSS	Piston (Note: Use Item 53)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 51 or 53)	
9	See Note	NSS	O-Ring (Note: Use Item 51 or 53)	
10	See Note	NSS	O-Ring (Note: Use Item 51 or 53)	
11	See Note	NSS	Ring, Back-up (Note: Use Item 51 or 53)	
12	70002026	5	Disc, Friction	
13	70002027	6	Disc, Steel	
15	70002029	1	Spindle	
16	70002030	4	Gear, Planetary	
17	70002031	4	Bearing	
18	70002032	5	Snap Ring	
19	70002033	1	Gear, Brake/Input	
20	70002034	1	Bearing	
22	70002035	1	Ring, Wear	
23	70002036	1	Spring	
24	70002037	1	Shaft, Engagement	
25	See Note	NSS	Seal (Note: Use Item 51)	
26	70002039	2	Bearing Assembly	
27	70002040	1	Support, Hub	
28	70002041	1	Nut, Retaining	
29	70002042	NLA	Washer (Use p/n 70002674)	
30	70002043	NLA	Screw, Flange (Use p/n 70002674)	
31	70002044	1	Gear, Planetary Sun	
32	70002045	1	Reduction Assembly, Secondary	
33	70002046	1	Snap Ring	
34	70002047	1	Gear, Secondary Input Sun	
35	70002048	1	Reduction Assembly, Primary	
36	70002049	1	Snap Ring	
37	70002050	1	Gear, Primary Input Sun	
38	See Note	NSS	O-Ring (Note: Use Item 51)	
39	See Note	NSS	Housing, Hub (Note: Use p/n 1001101550)	
40	70002052	2	Screw, Countersunk	
41	See Note	NSS	O-Ring (Note: Use Item 51 or 52)	
42	See Note	NSS	Thrustwasher (Note: Use Item 52)	
43	See Note	NSS	O-Ring (Note: Use Item 51 or 52)	
44	See Note	NSS	Cover, Hub (Note: Use Item 52)	
45	70002057	3	Plug	
46	See Note	NSS	Snap Ring (Note: Use Item 52)	
47	See Note	NSS	Pin, Engagement (Note: Use Item 52)	
48	See Note	NSS	Gasket (Note: Use Item 51 or 52)	
49	See Note	NSS	Cover, Engagement (Note: Use Item 52)	
50	See Note	NSS	Screw (Note: Use Item 52)	
51	70002248	1	Seal Kit (Includes Items 3, 8-11, 25, 38, 41, 43 & 48)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
52	70002247	1	Cover Kit (Includes Items 41-44 & 46-50)	
53	70002249	1	Brake Kit (Includes Items 4-13)	

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FIGURE 1-9. DRIVE MOTOR ASSEMBLY - 2WD



ART_1001149458

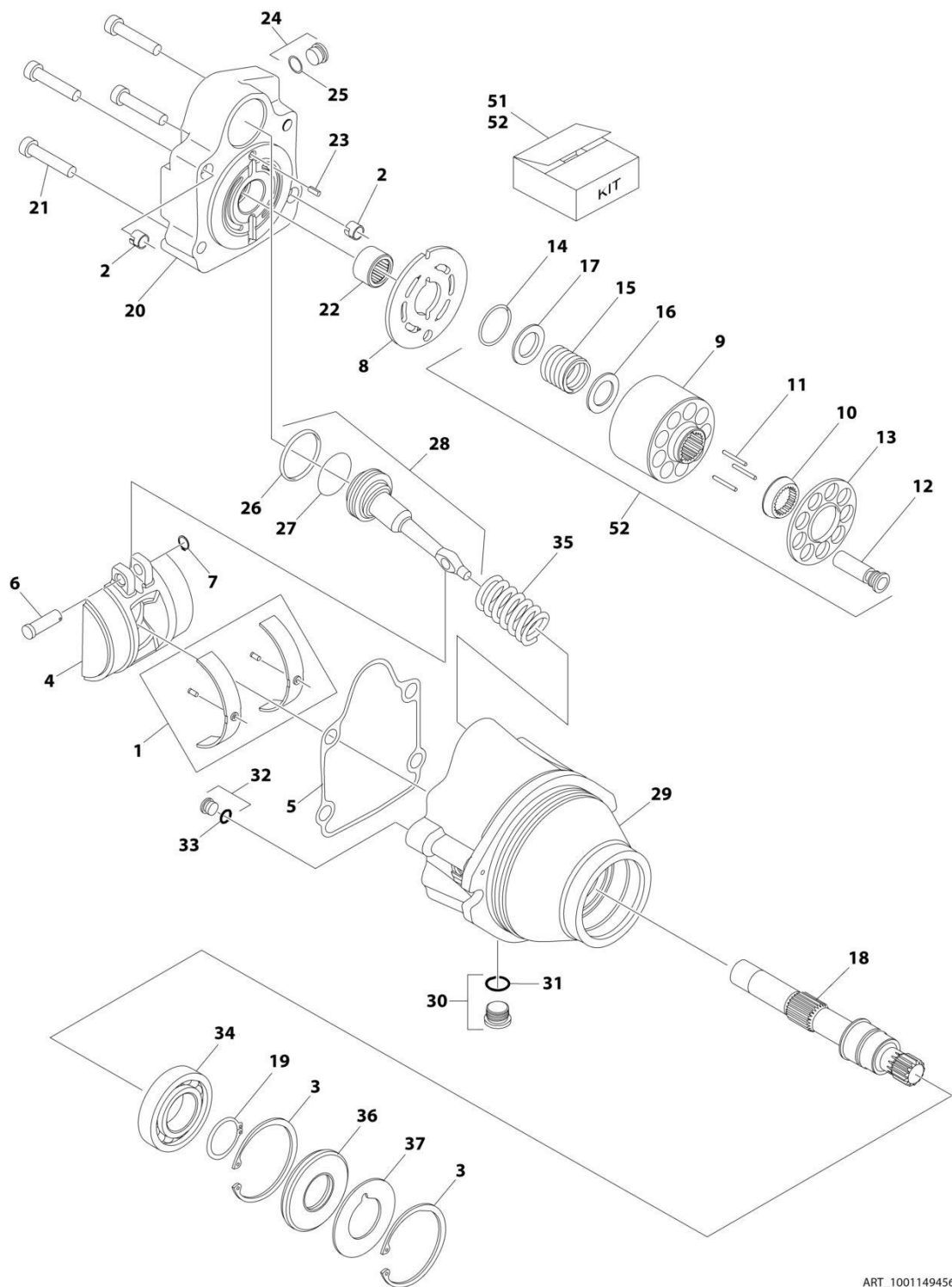
SECTION 1 - FRAME

FIGURE 1-9. DRIVE MOTOR ASSEMBLY - 2WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149458	Ref	DRIVE MOTOR ASSEMBLY - 2WD	B
1	70000852	1	Bearing Kit	
2	70003628	2	Locating Pin	
3	7007438	2	Snap Ring	
4	70000853	1	Swash Plate	
5	See Note	NSS	Gasket (Note: Use Item 51)	
6	70004201	1	Pin	
7	70004202	1	Ring, Retaining	
8	70000854	1	Plate, Valve	
9	70000855	1	Block, Cylinder	
10	70000856	1	Guide	
11	7021275	3	Pin, Slipper	
12	7024865	9	Piston, Cylinder	
13	70000857	1	Retainer, Slipper	
14	7022311	1	Snap Ring	
15	7024867	1	Spring	
16	7024868	1	Washer	
17	7022314	1	Retainer, Spring	
18	70000858	1	Shaft	
19	7007439	1	Snap Ring	
20	70000859	1	End Cap, Motor	
21	7022368	4	Bolt	
22	7021249	1	Bearing, Needle	
23	7007446	1	Pin, Dowel	
24	7007420	1	Plug (Includes Item 25)	
25	See Note	NSS	O-Ring (Note: Use Item 51 or 24)	
26	See Note	NSS	Ring, Piston (Note: Use Item 51 or 28)	
27	See Note	NSS	O-Ring (Note: Use Item 51 or 28)	
28	70004207	1	Piston, Servo (Includes Items 26 & 27)	
29	See Note	NSS	Housing (Note: Not Available - Purchase Complete Motor)	
30	7022321	1	Plug (Includes Item 31)	
31	See Note	NSS	O-Ring (Note: Use Item 51 or 30)	
32	70002133	1	Plug (Includes Item 33)	
33	See Note	NSS	O-Ring (Note: Use Item 51 or 32)	
34	70002176	1	Bearing	
35	70000861	1	Spring	
36	See Note	NSS	Seal (Note: Use Item 51)	
37	7022371	1	Washer, Seal Support	
51	70000862	1	Motor Seal Kit (Includes Items 5, 25, 26, 27, 31, 33 & 36)	
52	7027740	1	Cylinder Block Kit (Includes Items 9-17)	

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FIGURE 1-10. DRIVE MOTOR ASSEMBLY - 4WD



ART_1001149456

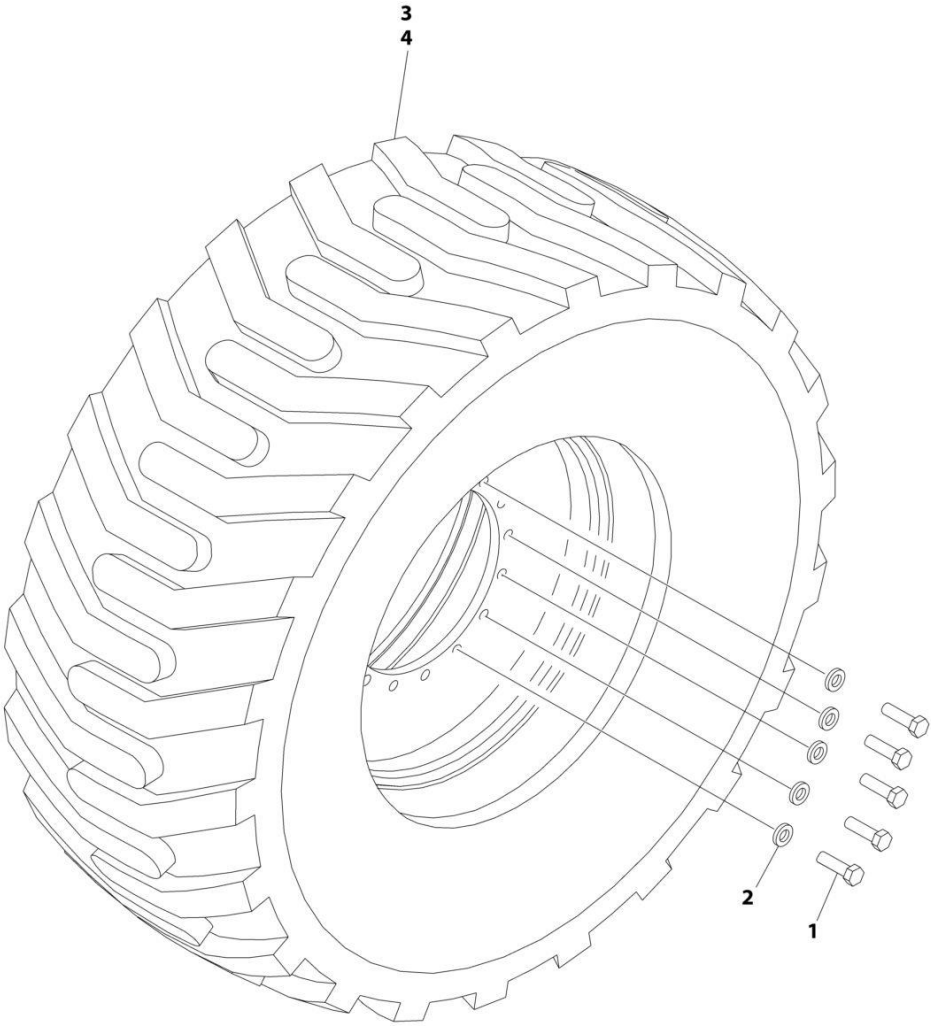
SECTION 1 - FRAME

FIGURE 1-10. DRIVE MOTOR ASSEMBLY - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149456	Ref	DRIVE MOTOR ASSEMBLY - 4WD	B
1	70000852	1	Bearing Kit	
2	70003628	2	Locating Pin	
3	7007439	2	Snap Ring	
4	70000853	1	Swash Plate	
5	See Note	NSS	Gasket (Note: Use Item 51)	
6	70004201	1	Pin	
7	70004202	1	Ring, Retaining	
8	70000854	1	Plate, Valve	
9	See Note	NSS	Block, Cylinder (Note: Use Item 52)	
10	See Note	NSS	Guide (Note: Use Item 52)	
11	7021275	3	Pin, Slipper	
12	70005821	9	Piston, Cylinder	
13	70000857	1	Retainer, Slipper	
14	7022311	1	Snap Ring	
15	7024867	1	Spring	
16	7024868	1	Washer	
17	7022314	1	Retainer, Spring	
18	70000858	1	Shaft	
19	7007439	1	Snap Ring	
20	70000859	1	End Cap, Motor	
21	7022368	4	Bolt	
22	7021249	1	Bearing, Needle	
23	7007446	1	Pin, Dowel	
24	7007420	1	Plug (Includes Item 25)	
25	See Note	NSS	O-Ring (Note: Use Item 51 or 24)	
26	See Note	NSS	Ring, Piston (Note: Use Item 51 or 28)	
27	See Note	NSS	O-Ring (Note: Use Item 51 or 28)	
28	70000860	1	Piston, Servo (Includes Items 26 & 27)	
29	See Note	NSS	Housing (Note: Not Available - Purchase Complete Motor)	
30	7022321	1	Plug (Includes Item 31)	
31	See Note	NSS	O-Ring (Note: Use Item 51 or 30)	
32	70002133	1	Plug (Includes Item 33)	
33	See Note	NSS	O-Ring (Note: Use Item 51 or 32)	
34	70002176	1	Bearing	
35	70000861	1	Spring	
36	See Note	NSS	Seal (Note: Use Item 51)	
37	7022371	1	Washer, Seal Support	
51	70000862	1	Motor Seal Kit (Includes Items 5, 25, 26, 27, 31, 33 & 36)	
52	70005820	1	Cylinder Block Kit (Includes Items 9-17)	

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FIGURE 1-11. TIRE AND WHEEL INSTALLATION - FOAM-FILLED



ART_1001150022

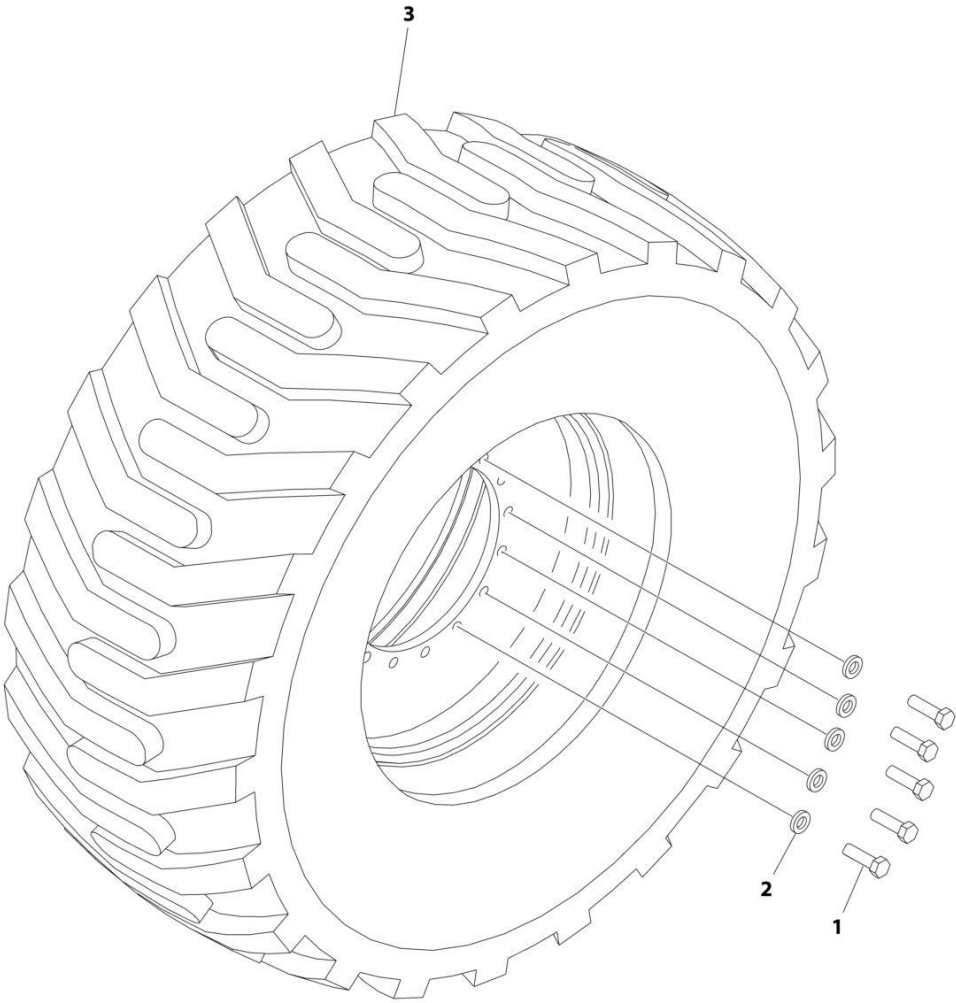
SECTION 1 - FRAME

FIGURE 1-11. TIRE AND WHEEL INSTALLATION - FOAM-FILLED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150022	Ref	TIRE AND WHEEL INSTALLATION - FOAM-FILLED	B
		Ref	Note: Assemblies may require ballast/foam filling to manufacturer's specifications prior to installing on a machine. Refer to Operation and Safety or Service and Maintenance Manuals. Purchase individual tire and/or rim only if able to foam fill tire and wheel assembly, otherwise, purchase complete assembly.	
1	0701619	64	Bolt M16 x 55 (16 Per Wheel)	
2	5241600	64	Washer M16 (16 Per Assembly)	
3	1001151436	2	Left Side Tire and Wheel Assembly - Foam-Filled	
4	1001151437	2	Right Side Tire and Wheel Assembly - Foam-Filled	

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FIGURE 1-12. TIRE AND WHEEL INSTALLATION - SOLID



ART_1001150023

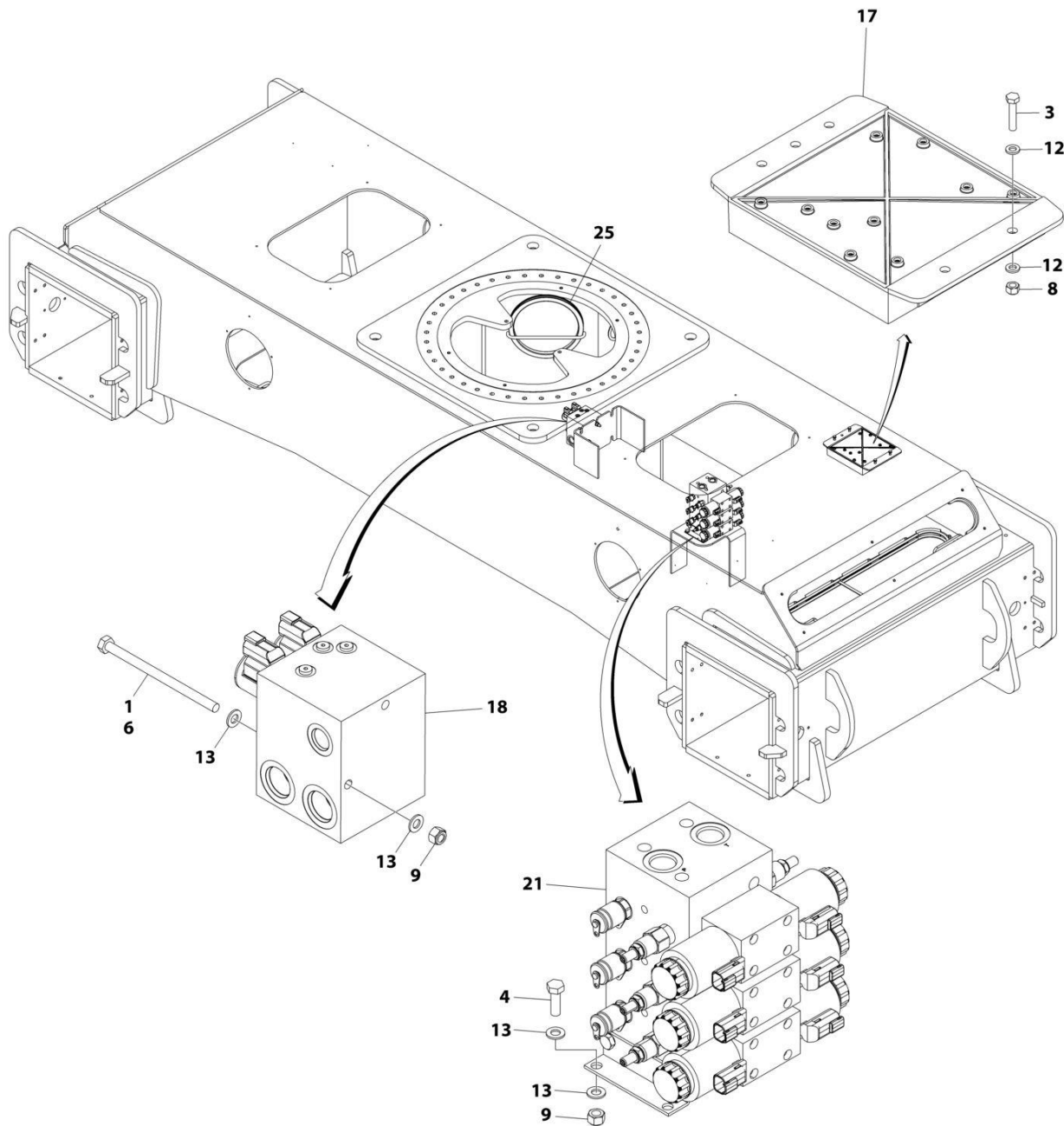
SECTION 1 - FRAME

FIGURE 1-12. TIRE AND WHEEL INSTALLATION - SOLID

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150023	Ref	TIRE AND WHEEL INSTALLATION - SOLID	B
1	0701619	64	Bolt M16 x 55 (16 Per Wheel)	
2	5241600	64	Washer M16 (16 Per Wheel)	
3	1001147247	4	Tire and Wheel Assembly - Solid	

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FIGURE 1-13. VALVES INSTALLATION - FRAME (2WD/2WS)



ART_1001223984_10F3

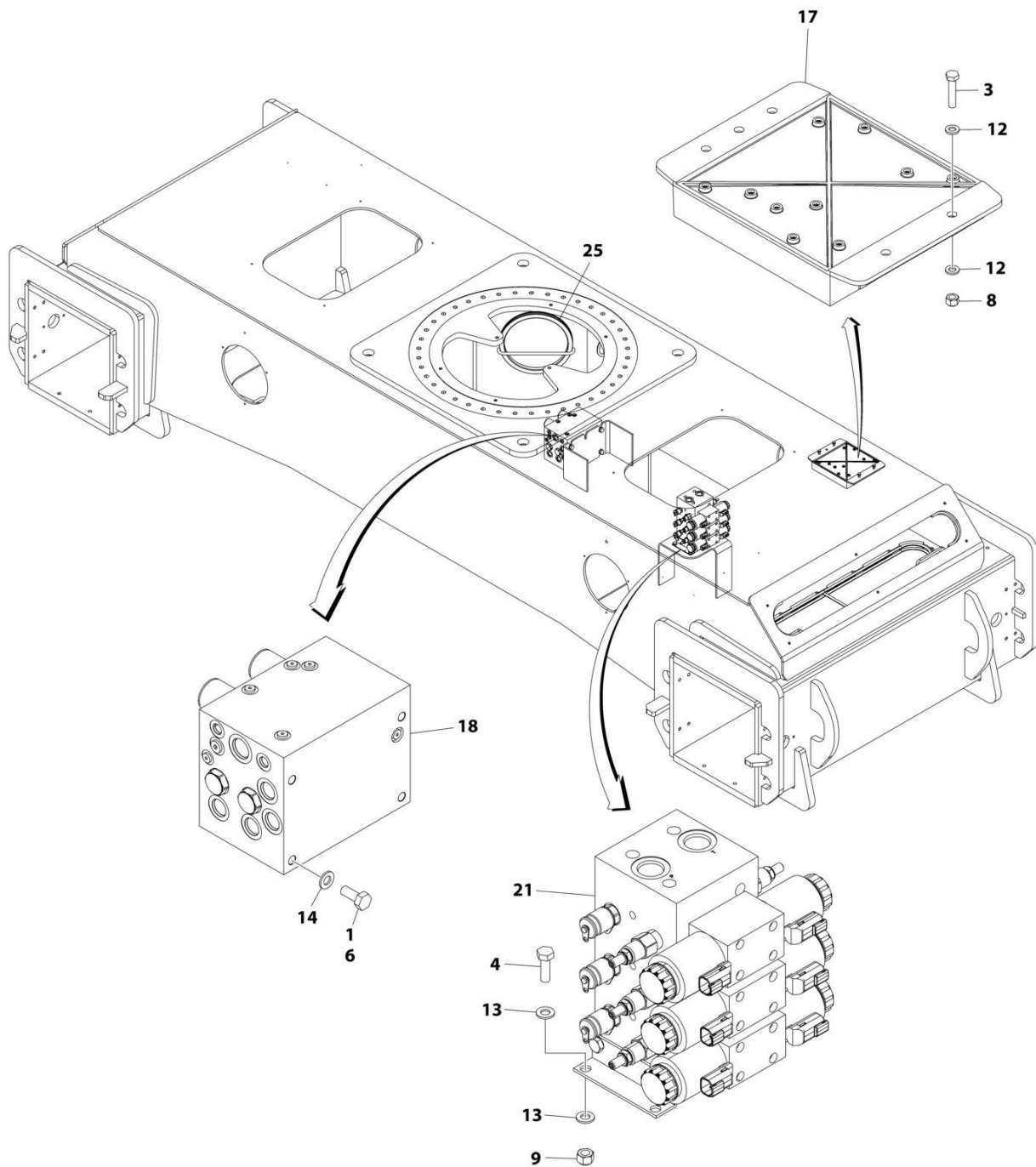
SECTION 1 - FRAME

FIGURE 1-13. VALVES INSTALLATION - FRAME (2WD/2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223984	Ref	VALVES INSTALLATION - FRAME (WITH 2WD/2WS)	B
1	0100011	AR	Compound, Locking	
3	0760614	4	Bolt M6 x 30	
4	0760812	4	Bolt M8 x 25	
6	0700830	2	Bolt M8 x 130	
8	3290605	4	Nut M6	
9	3290805	6	Nut M8	
12	4811700	8	Washer M6	
13	4811900	12	Washer M8	
17	1001112758	1	Module, Control - Frame (Note: Re-calibration Required when Replaced)	
18	1001194532	1	Traction Valve Assembly - 2WD (See Separate Breakdown in this Section)	
21	1001151834	1	Axle Extend/Steer Valve Assembly (See Separate Breakdown in this Section)	
25	4060808	AR	Flex-Trim	

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FIGURE 1-14. VALVES INSTALLATION - FRAME (4WD/2WS)



ART_1001223931_1OF3

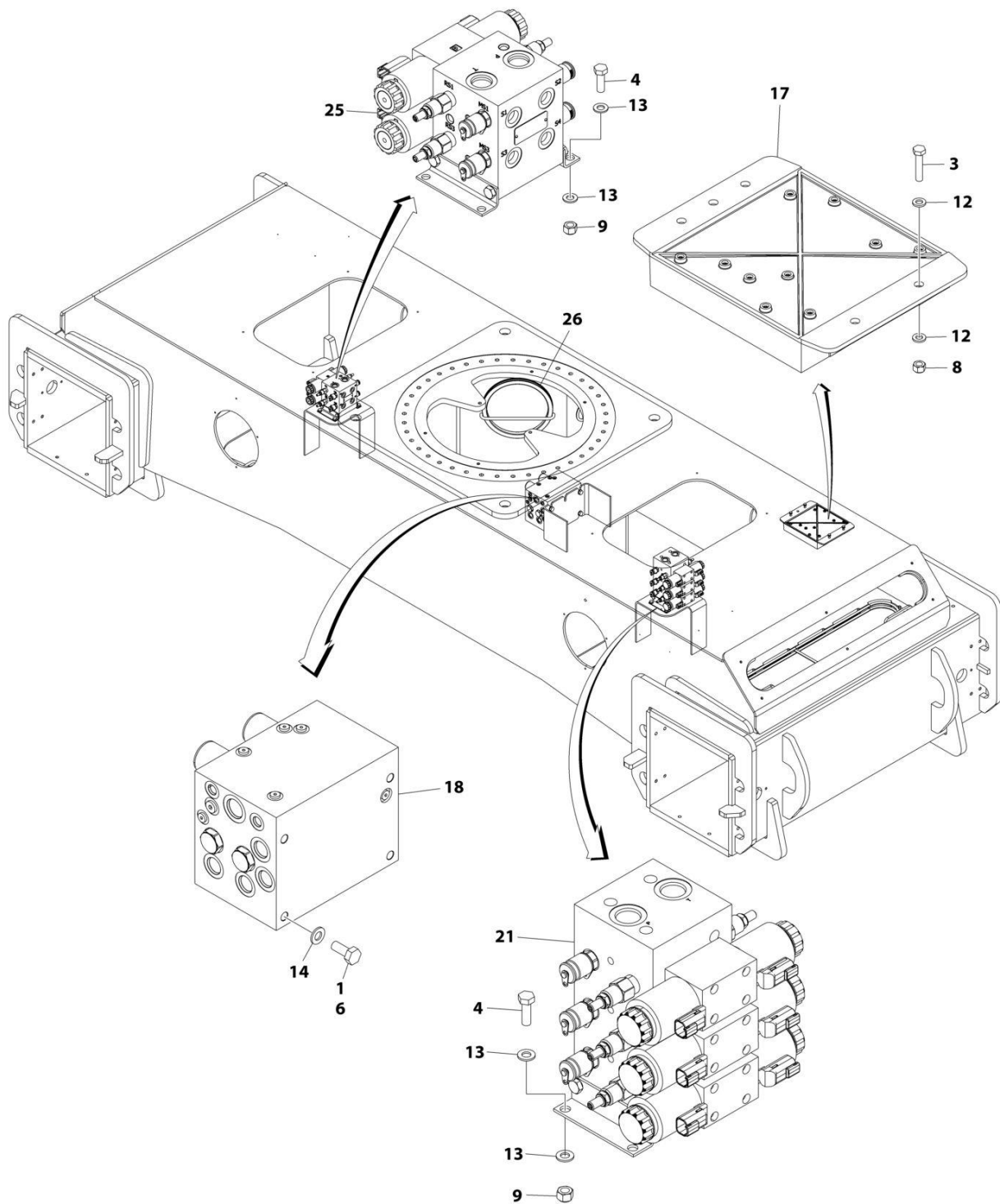
SECTION 1 - FRAME

FIGURE 1-14. VALVES INSTALLATION - FRAME (4WD/2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223931	Ref	VALVES INSTALLATION - FRAME (WITH 4WD/2WS)	B
1	0100011	AR	Compound, Locking	
3	0760614	4	Bolt M6 x 30	
4	0760812	4	Bolt M8 x 25	
6	0761012	4	Bolt M10 x 25	
8	3290605	4	Nut M6	
9	3290805	4	Nut M8	
12	4811700	8	Washer M6	
13	4811900	8	Washer M8	
14	4812000	4	Washer M10	
17	1001112758	1	Module, Control - Frame (Note: Re-calibration Required when Replaced)	
18	1001151409	1	Traction Valve Assembly - 4WD (See Separate Breakdown in this Section)	
21	1001151834	1	Axle Extend/Steer Valve Assembly (See Separate Breakdown in this Section)	
25	4060808	AR	Flex-Trim	

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FIGURE 1-15. VALVES INSTALLATION - FRAME (1100SJ WITH 4WD/4WS)



ART_1001223890_1OF3

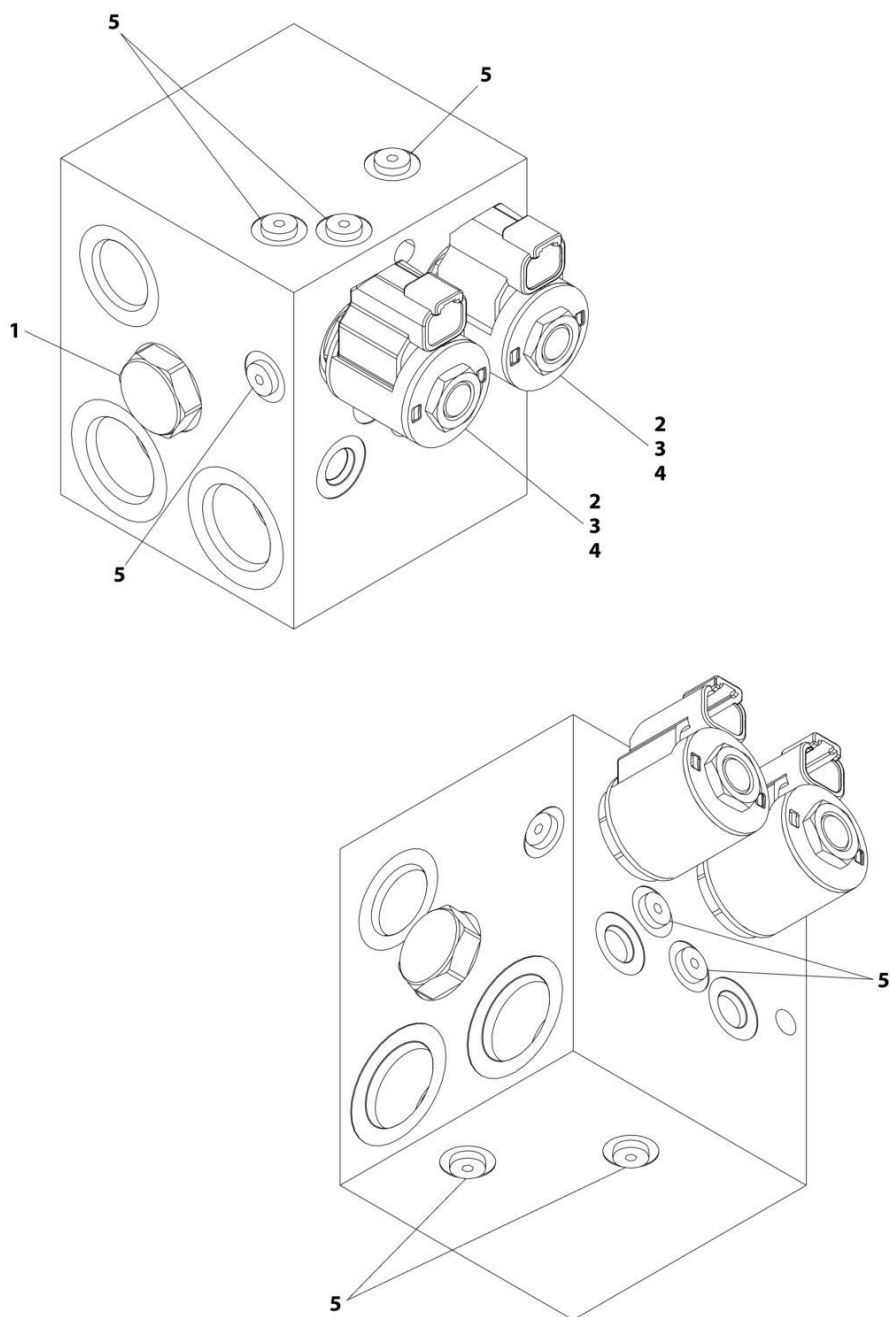
SECTION 1 - FRAME

FIGURE 1-15. VALVES INSTALLATION - FRAME (1100SJ WITH 4WD/4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223890	Ref	VALVES INSTALLATION - FRAME (4WD/4WS)	B
1	0100011	AR	Compound, Locking	
3	0760614	4	Bolt M6 x 30	
4	0760812	8	Bolt M8 x 25	
6	0761012	4	Bolt M10 x 25	
8	3290605	4	Nut M6	
9	3290805	8	Nut M8	
12	4811700	8	Washer M6	
13	4811900	16	Washer M8	
14	4812000	4	Washer M10	
17	1001112758	1	Module, Control - Frame (Note: Re-calibration Required when Replaced)	
18	1001151409	1	Traction Valve Assembly - 4WD (See Separate Breakdown in this Section)	
21	1001151834	1	Axle Extend/Steer Valve Assembly (See Separate Breakdown in this Section)	
25	1001222524	1	Steer Valve Assembly (See Separate Breakdown in this Section)	
26	4060808	AR	Flex-Trim	

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FIGURE 1-16. TRACTION VALVE ASSEMBLY - 2WD



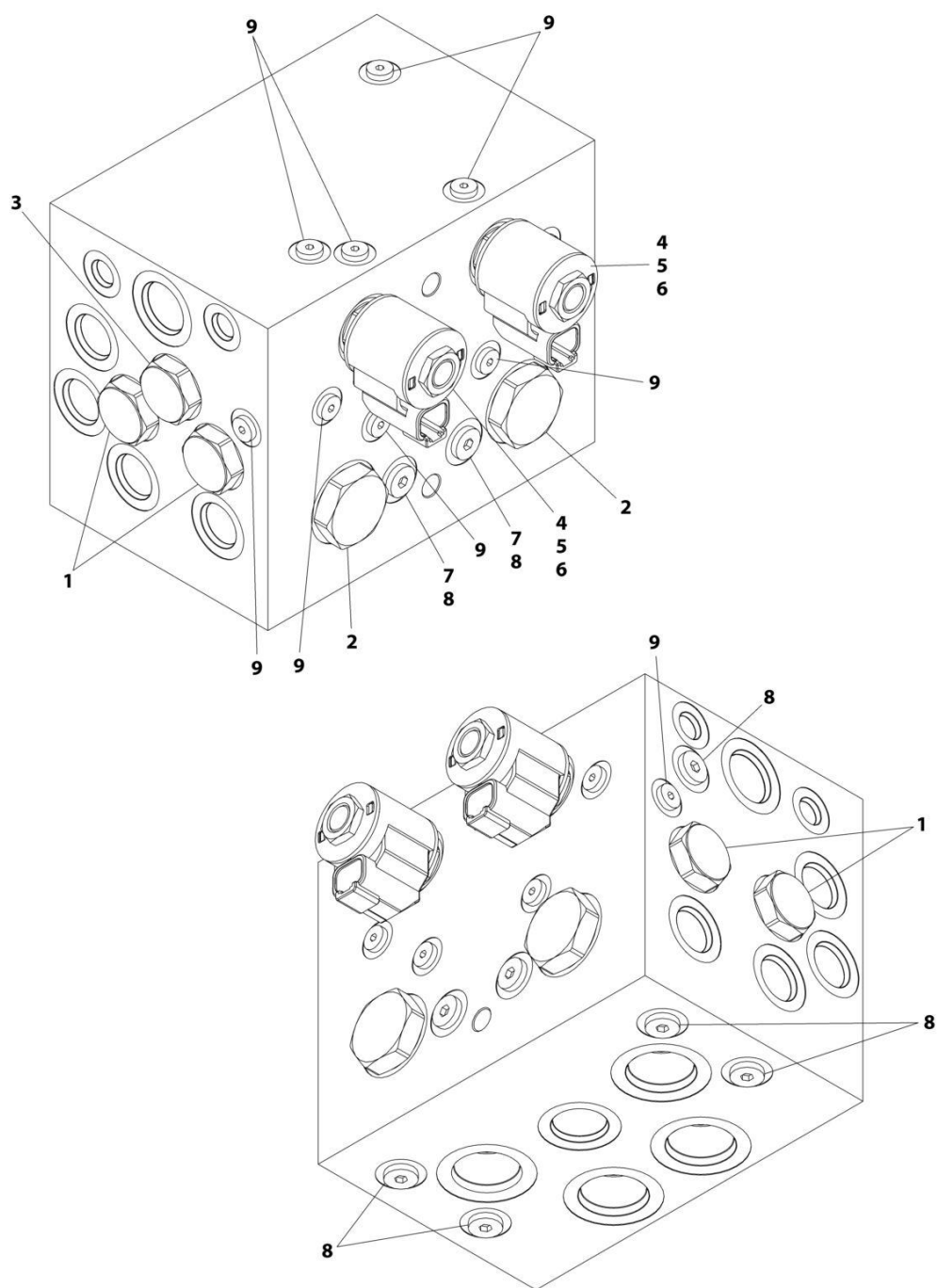
ART_1001194532

FIGURE 1-16. TRACTION VALVE ASSEMBLY - 2WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194532	Ref	TRACTION VALVE ASSEMBLY - 2WD	C
1	70000804	1	Cartridge, Shuttle Valve	
1	70000805	1	Seal Kit - 70000804 Valve	
2	70005775	2	Cartridge, Solenoid Less Coil	
2	70005776	2	Seal Kit - 70005775 Valve	
3	7022390	2	Nut, Coil	
4	70002386	2	Coil	
5	2220881	8	Plug	

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FIGURE 1-17. TRACTION VALVE ASSEMBLY - 4WD



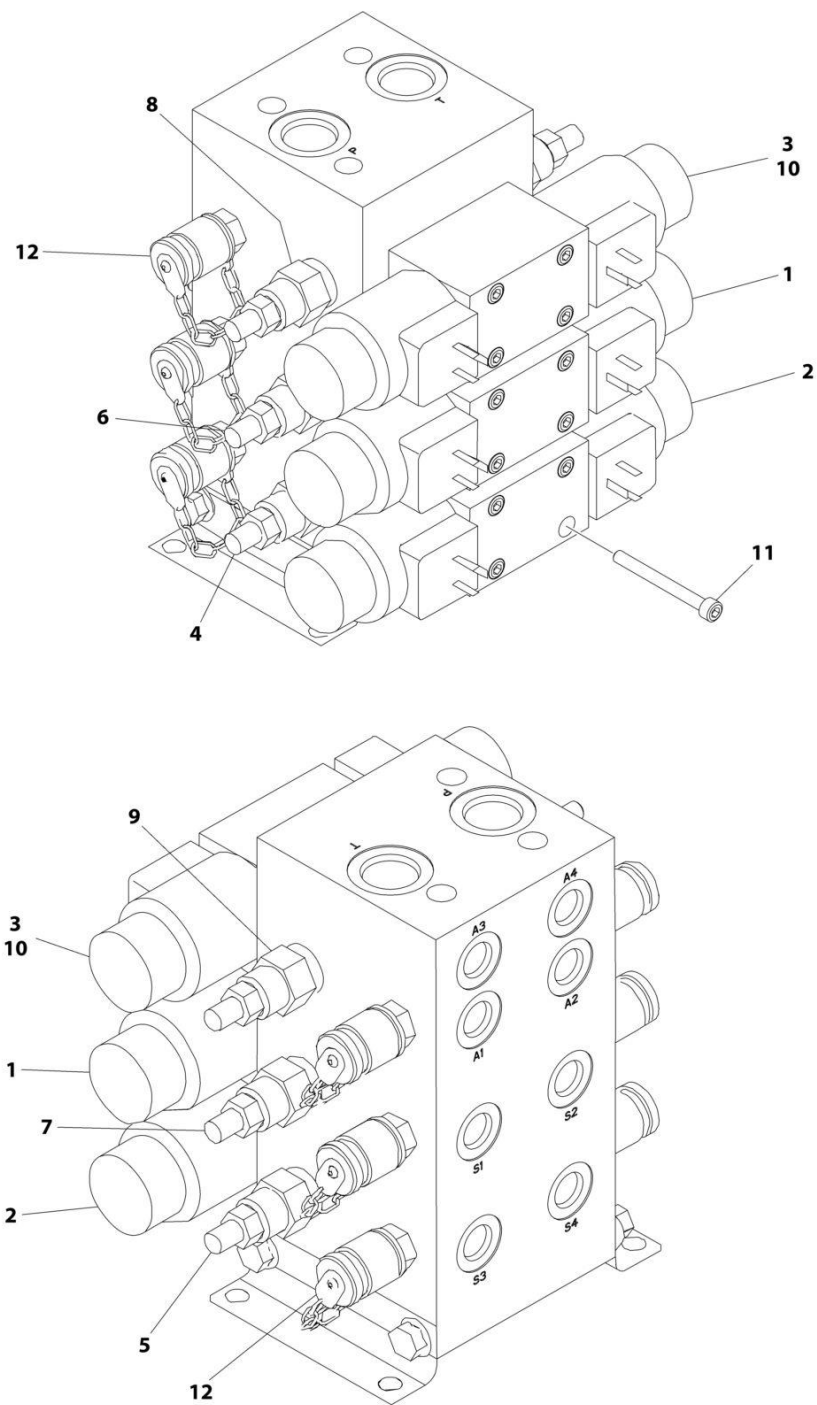
ART_1001151409

FIGURE 1-17. TRACTION VALVE ASSEMBLY - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151409	Ref	TRACTION VALVE ASSEMBLY - 4WD	B
1	70005774	4	Cartridge, Check Valve	
1	7024808	4	Seal Kit - 70005774 Valve	
2	70002958	2	Cartridge, Flow Divider Valve	
2	70002959	2	Seal Kit - 70002958 Valve	
3	70000804	1	Cartridge, Shuttle Valve	
3	70000805	1	Seal Kit - 70000804 Valve	
4	70005775	2	Cartridge, Solenoid Less Coil	
4	70005776	2	Seal Kit - 70005775 Valve	
5	7022390	2	Nut, Coil	
6	70002386	2	Coil	
7	7017493	2	Orifice	
8	2220883	7	Plug	
9	2220881	11	Plug	

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FIGURE 1-18. AXLE EXTEND/STEER ASSEMBLY



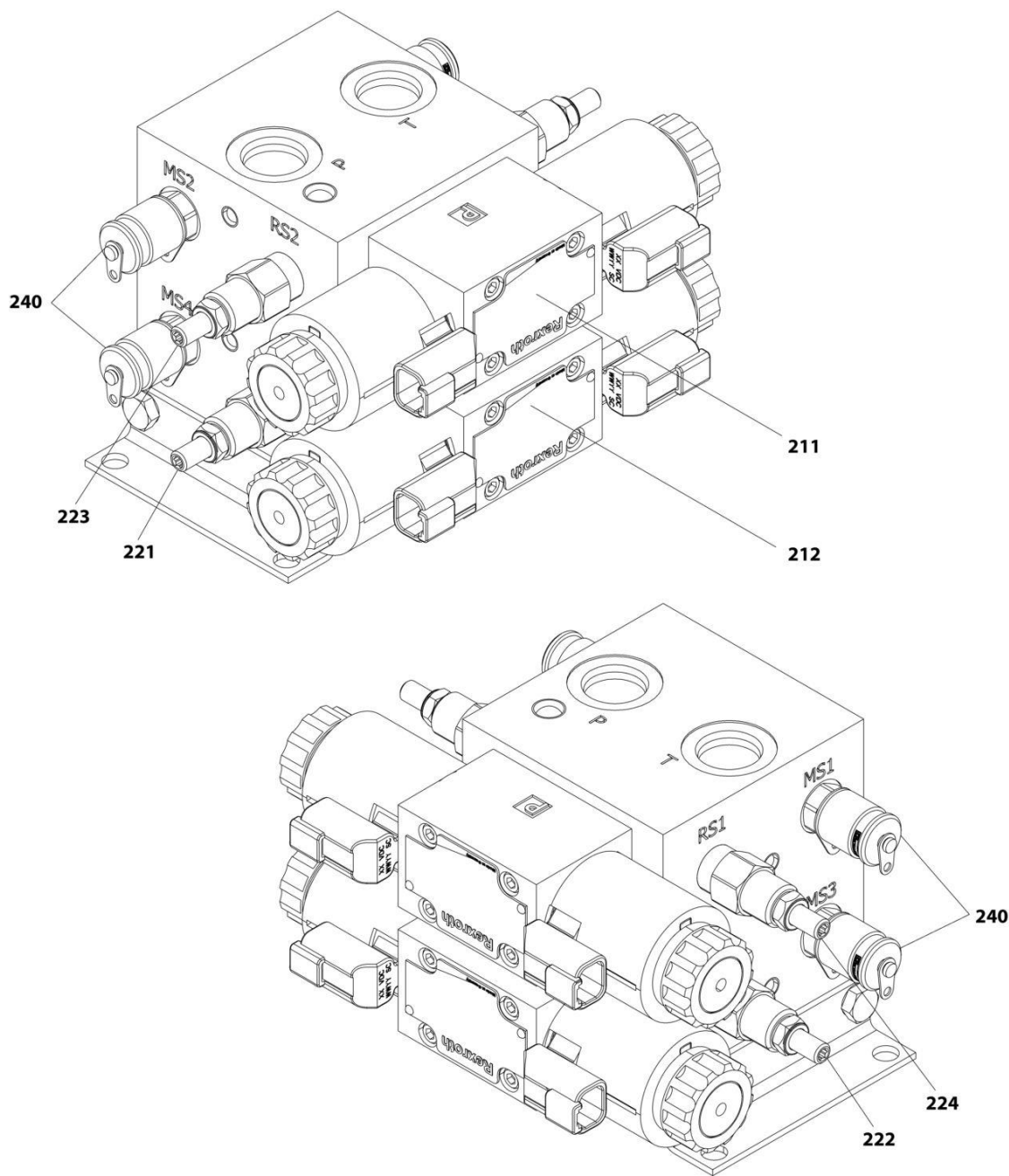
ART_1001151834

FIGURE 1-18. AXLE EXTEND/STEER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151834	Ref	AXLE EXTEND/STEER ASSEMBLY	E
1	70006929	1	Valve (Steer)	
1	See Note	NSS	Seal Kit - 70006929 Valve (Note: Not Available for Purchase)	
1	70006950	2	Coil	
1	70004461	2	O-Ring, Pole Tube	
1	7021375	2	Nut, Coil	
2	70006929	1	Valve (Steer)	
2	See Note	NSS	Seal Kit - 70006929 Valve (Note: Not Available for Purchase)	
2	70006950	2	Coil	
2	70004461	2	O-Ring, Pole Tube	
2	7021375	2	Nut, Coil	
3	70001939	1	Orifice	
4	70006087	1	Cartridge, Relief Valve	
4	7011346	1	Seal Kit - 70006087 Valve	
5	70006088	1	Cartridge, Relief Valve	
5	7011346	1	Seal Kit - 70006088 Valve	
6	70006087	1	Cartridge, Relief Valve	
6	7011346	1	Seal Kit - 70006087 Valve	
7	70006088	1	Cartridge, Relief Valve	
7	7011346	1	Seal Kit - 70006088 Valve	
8	70006089	1	Cartridge, Relief Valve	
8	7011346	1	Seal Kit - 70006089 Valve	
9	70006089	1	Cartridge, Relief Valve	
9	7011346	1	Seal Kit - 70006089 Valve	
10	70004459	1	Valve (Steer)	
10	7012773	1	Seal Kit - 70004459 Valve	
10	70004460	2	Coil	
10	70004461	2	O-Ring, Pole Tube	
10	7021375	2	Nut, Coil	
11	7018942	12	Capscrew #10 x 2	
12	2221086	6	Fitting, Pressure Test	

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FIGURE 1-19. STEER VALVE ASSEMBLY



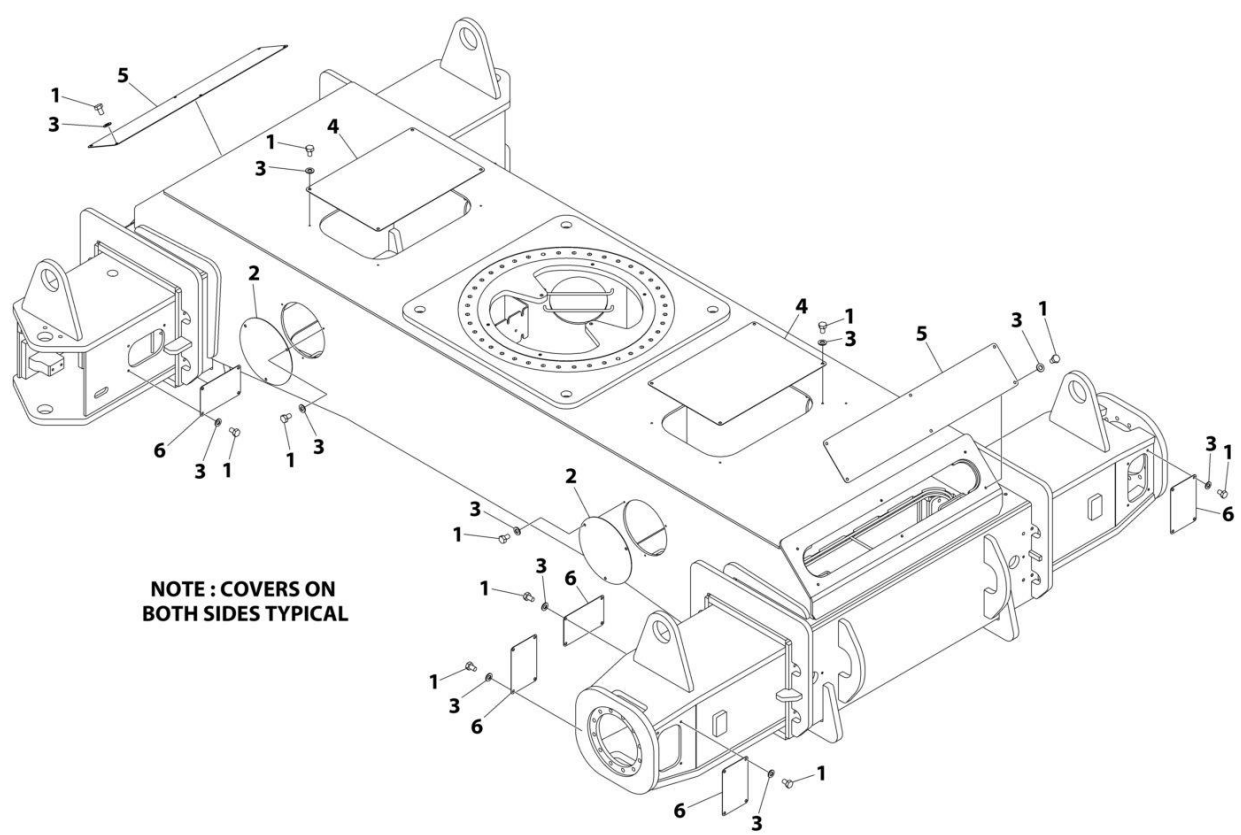
ART_1001222524

FIGURE 1-19. STEER VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222524	Ref	STEER VALVE ASSEMBLY	B
211	70006929	1	Valve (Steer)	
211	See Note	NSS	Seal Kit - 70006929 Valve (Note: Not Available for Purchase)	
211	70006950	2	Coil	
211	70004461	2	O-Ring, Pole Tube	
211	7021375	1	Nut, Coil	
212	70006929	1	Valve (Steer)	
212	See Note	NSS	Seal Kit - 70006929 Valve (Note: Not Available for Purchase)	
212	70006950	2	Coil	
212	70004461	2	O-Ring, Pole Tube	
212	7021375	2	Nut, Coil	
221	70006087	1	Cartridge, Relief Valve	
221	7011346	1	Seal Kit - 70006087 Valve	
222	70006088	1	Cartridge, Relief Valve	
222	7011346	1	Seal Kit - 70006088 Valve	
223	70006087	1	Cartridge, Relief Valve	
223	7011346	1	Seal Kit - 70006087 Valve	
224	70006088	1	Cartridge, Relief Valve	
224	7011346	1	Seal Kit - 70006088 Valve	
240	2221086	4	Fitting, Pressure Test	

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FIGURE 1-20. FRAME COVER INSTALLATION - STANDARD MACHINES (2WS)



ART_1001150044

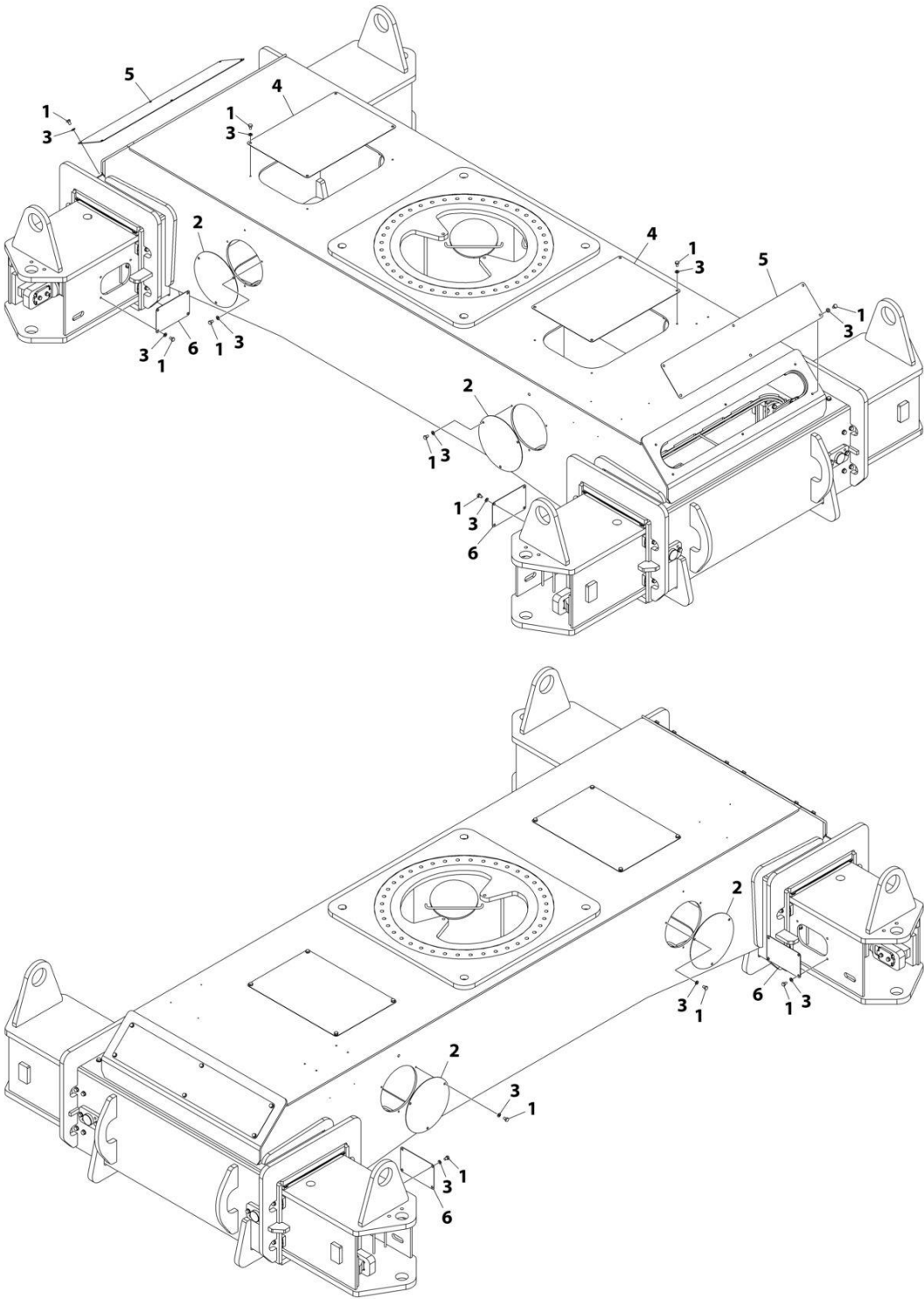
SECTION 1 - FRAME

FIGURE 1-20. FRAME COVER INSTALLATION - STANDARD MACHINES (2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150044	Ref	FRAME COVER INSTALLATION - STANDARD MACHINES	C
1	0761008	AR	Bolt M10 x 16	
2	1671049	4	Cover	
3	4812000	AR	Washer M10	
4	1001150577	AR	Cover	
5	1001150578	2	Cover	
6	1001150579	8	Cover	

SECTION 1 - FRAME

FIGURE 1-21. FRAME COVER INSTALLATION - STANDARD MACHINES (4WS)



ART_1001232783

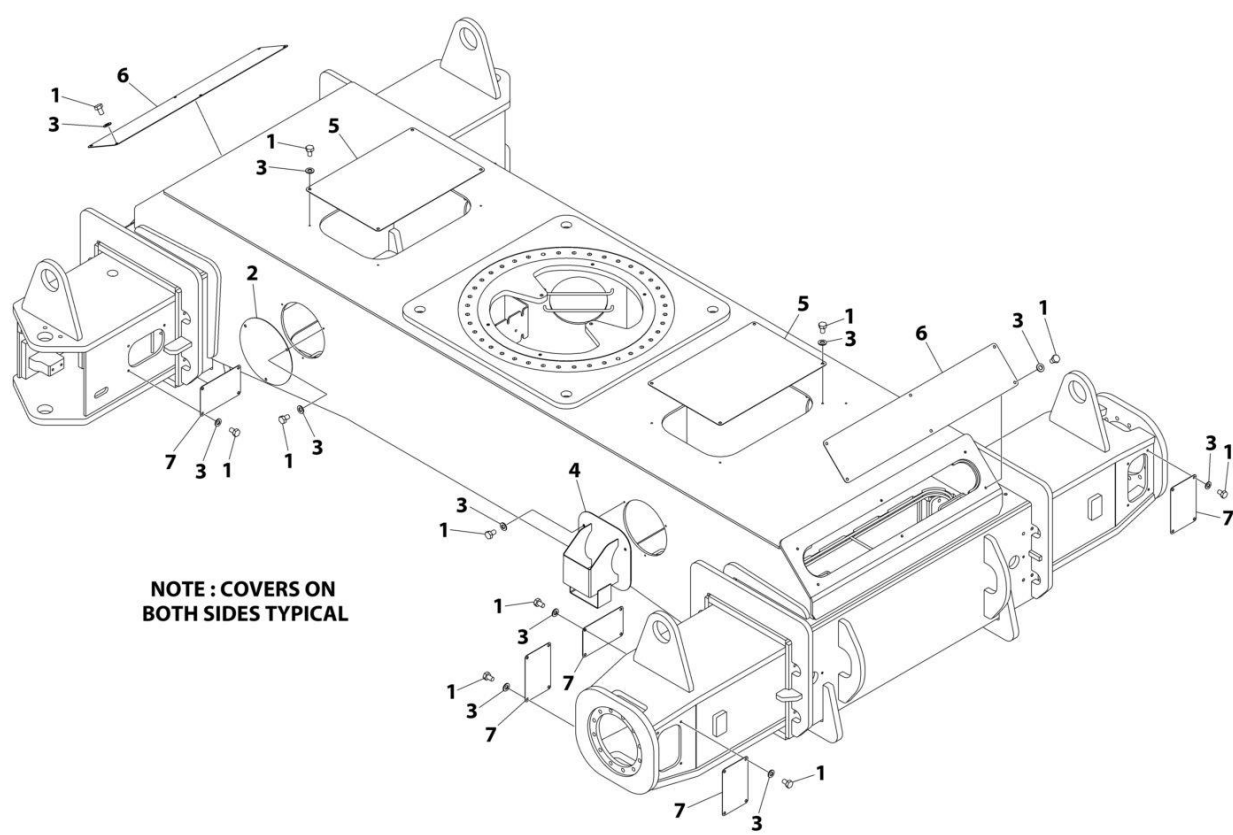
SECTION 1 - FRAME

FIGURE 1-21. FRAME COVER INSTALLATION - STANDARD MACHINES (4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232783	Ref	FRAME COVER INSTALLATION - STANDARD MACHINES	A
1	0761008	48	Bolt M10 x 16	
2	1671049	4	Cover	
3	4812000	48	Washer M10	
4	1001150577	2	Cover	
5	1001150578	2	Cover	
6	1001150579	4	Cover	

SECTION 1 - FRAME

FIGURE 1-22. FRAME COVER INSTALLATION - SHIPYARD MACHINES (2WS)



ART_1001150042

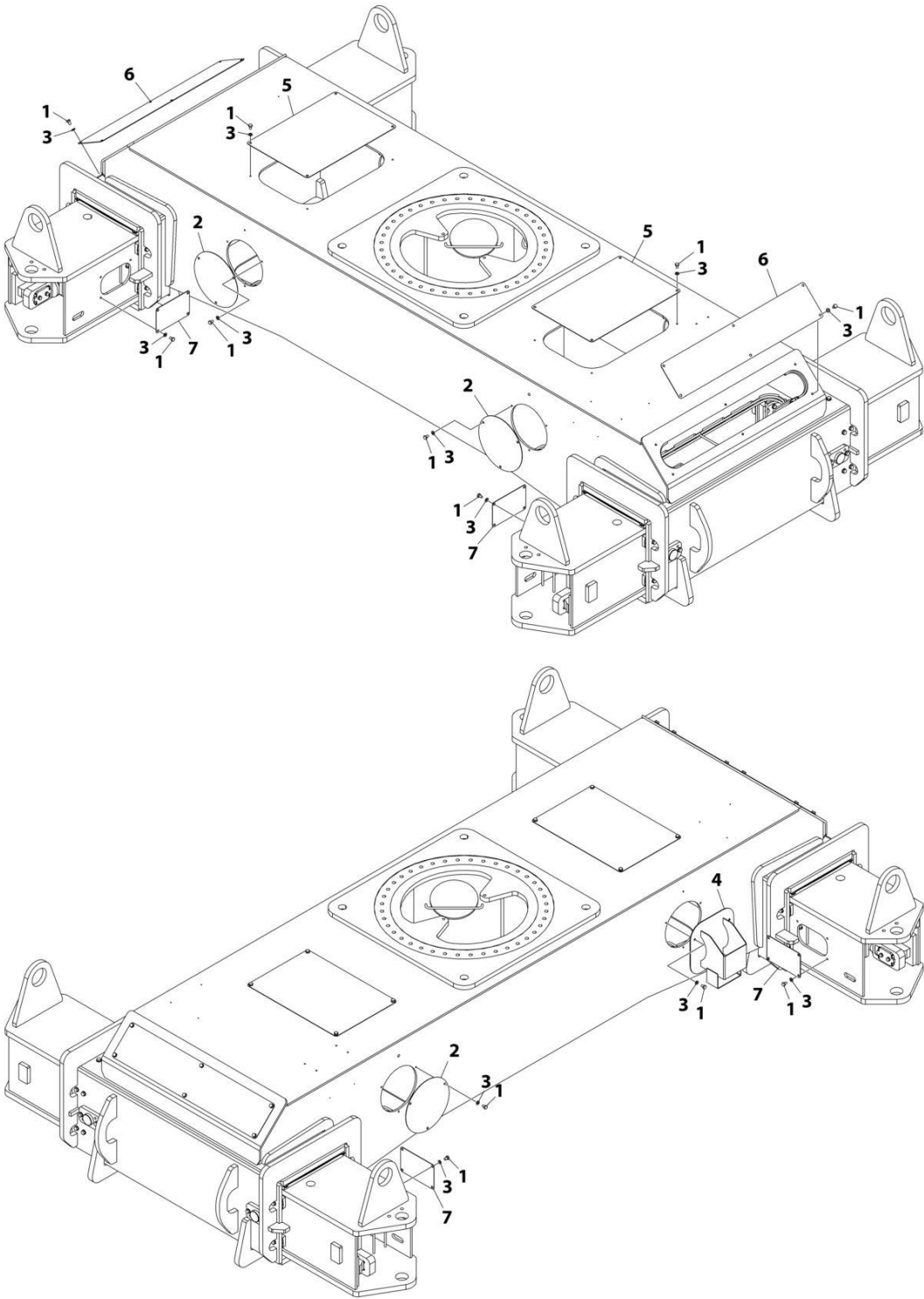
SECTION 1 - FRAME

FIGURE 1-22. FRAME COVER INSTALLATION - SHIPYARD MACHINES (2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150042	Ref	FRAME COVER INSTALLATION - SHIPYARD MACHINES	C
1	0761008	AR	Bolt M10 x 16	
2	1671049	3	Cover	
3	4812000	AR	Washer M10	
4	1001110877	1	Mount, Fire Extinguisher	
5	1001150577	AR	Cover	
6	1001150578	2	Cover	
7	1001150579	8	Cover	

SECTION 1 - FRAME

FIGURE 1-23. FRAME COVER INSTALLATION - SHIPYARD MACHINES (4WS)



ART_1001232782

SECTION 1 - FRAME

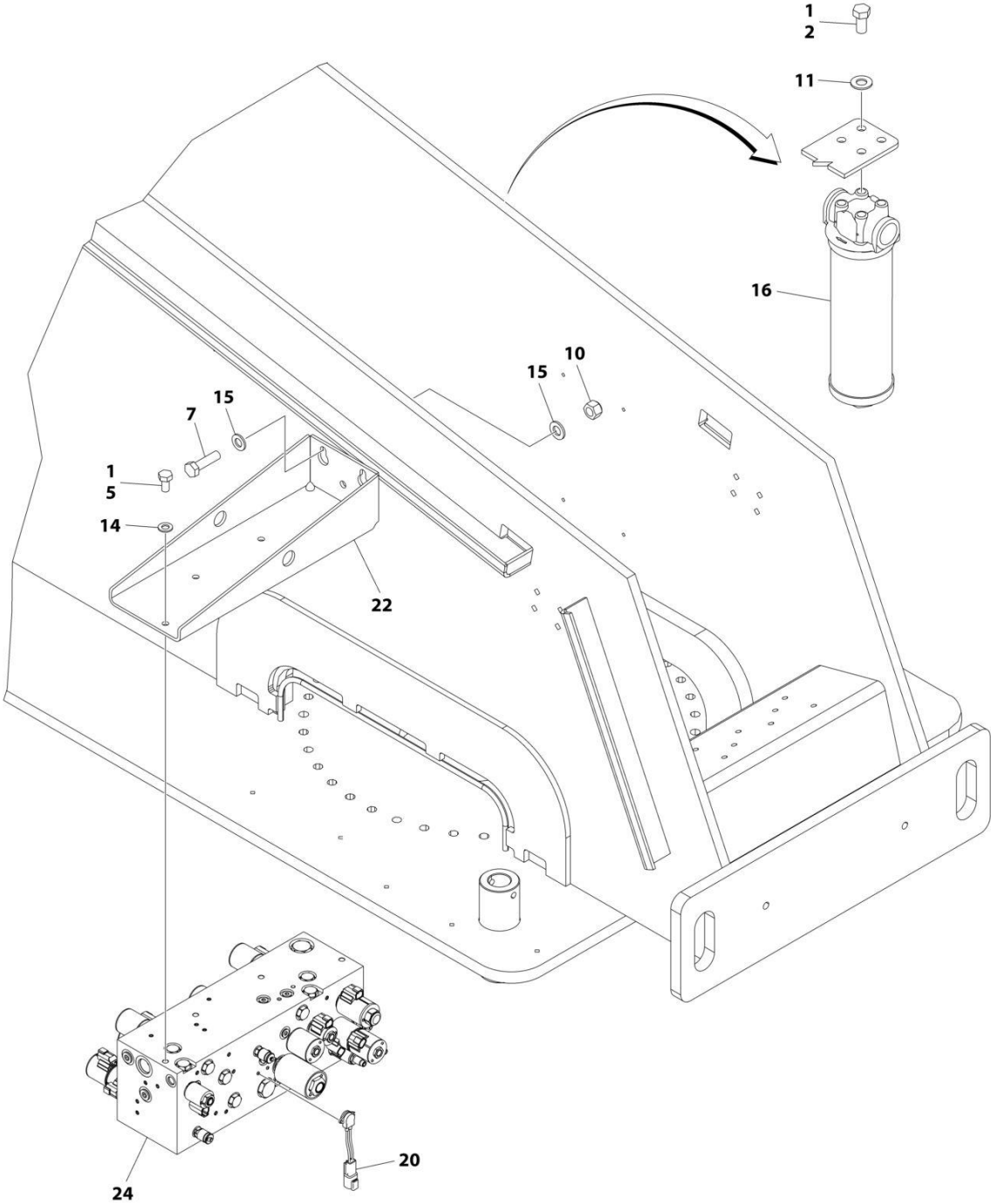
FIGURE 1-23. FRAME COVER INSTALLATION - SHIPYARD MACHINES (4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232782	Ref	FRAME COVER INSTALLATION - SHIPYARD MACHINES	A
1	0761008	48	Bolt M10 x 16	
2	1671049	3	Cover	
3	4812000	48	Washer M10	
4	1001110877	1	Mount, Fire Extinguisher	
5	1001150577	2	Cover	
6	1001150578	2	Cover	
7	1001150579	4	Cover	

SECTION 2 - TURNTABLE

SECTION 2 - TURNTABLE

FIGURE 2-1. VALVE INSTALLATION - TURNTABLE (2WD/2WS)



ART_1001223984_2OF3

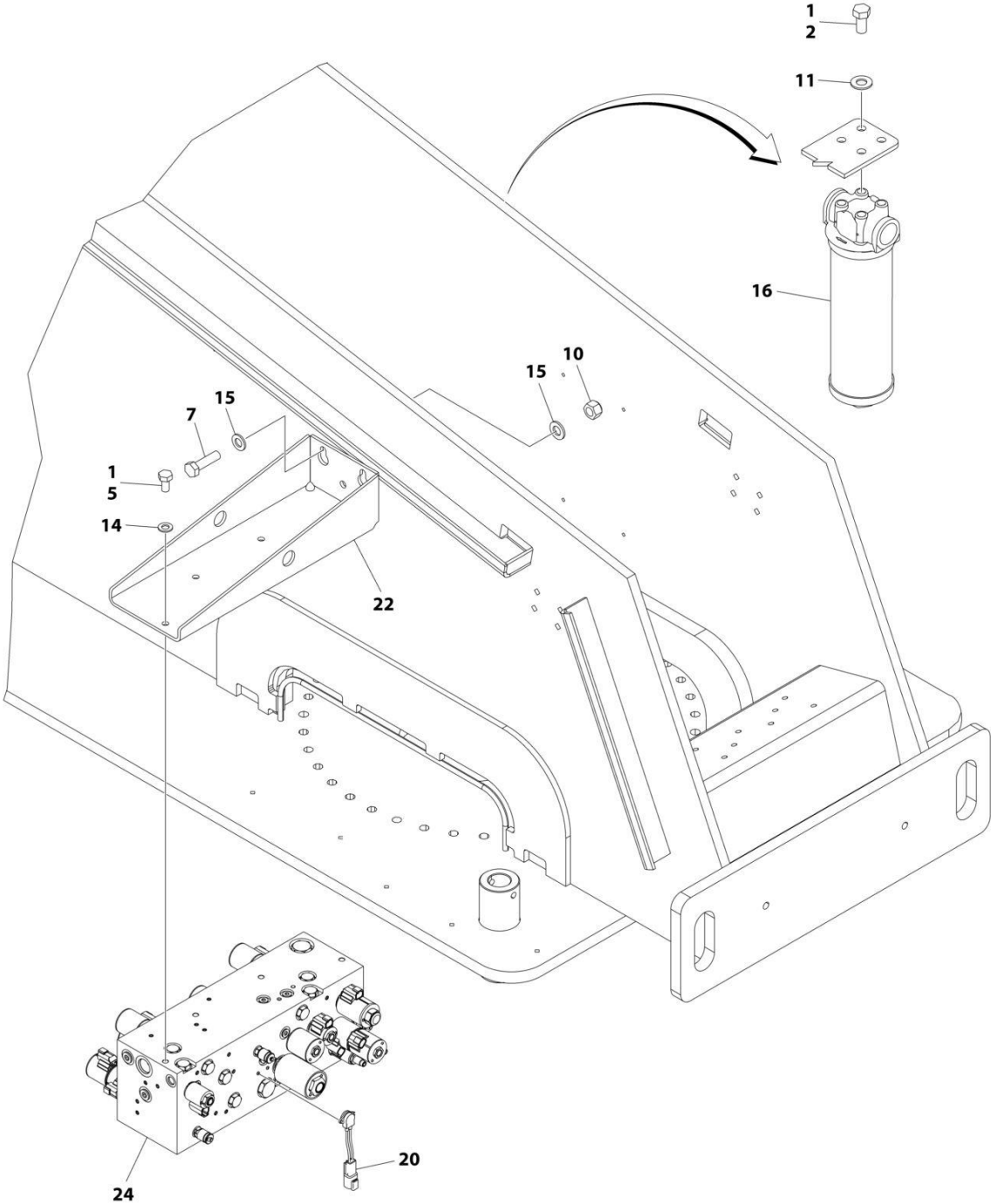
SECTION 2 - TURNTABLE

FIGURE 2-1. VALVE INSTALLATION - TURNTABLE (2WD/2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223984	Ref	VALVE INSTALLATION - TURNTABLE (WITH 2WD/2WD)	B
1	0100011	AR	Compound, Locking	
2	0641606	4	Bolt 3/8 x 3/4	
5	0761010	4	Bolt M10 x 20	
7	0761217	3	Bolt M12 x 45	
10	3291205	3	Nut M12	
11	4711600	4	Washer 3/8	
14	4812000	4	Washer M10	
15	4812100	6	Washer M12	
16	1001108617	1	Filter, Hydraulic	
16	70002231	1	Element, Filter	
20	1001151525	1	Sensor, Temperature	
22	1001151840	1	Bracket	
24	1001219116	1	Main Valve Assembly (See Separate Breakdown in this Section)	

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FIGURE 2-2. VALVE INSTALLATION - TURNTABLE (4WD/2WS)



ART_1001223931_20F3

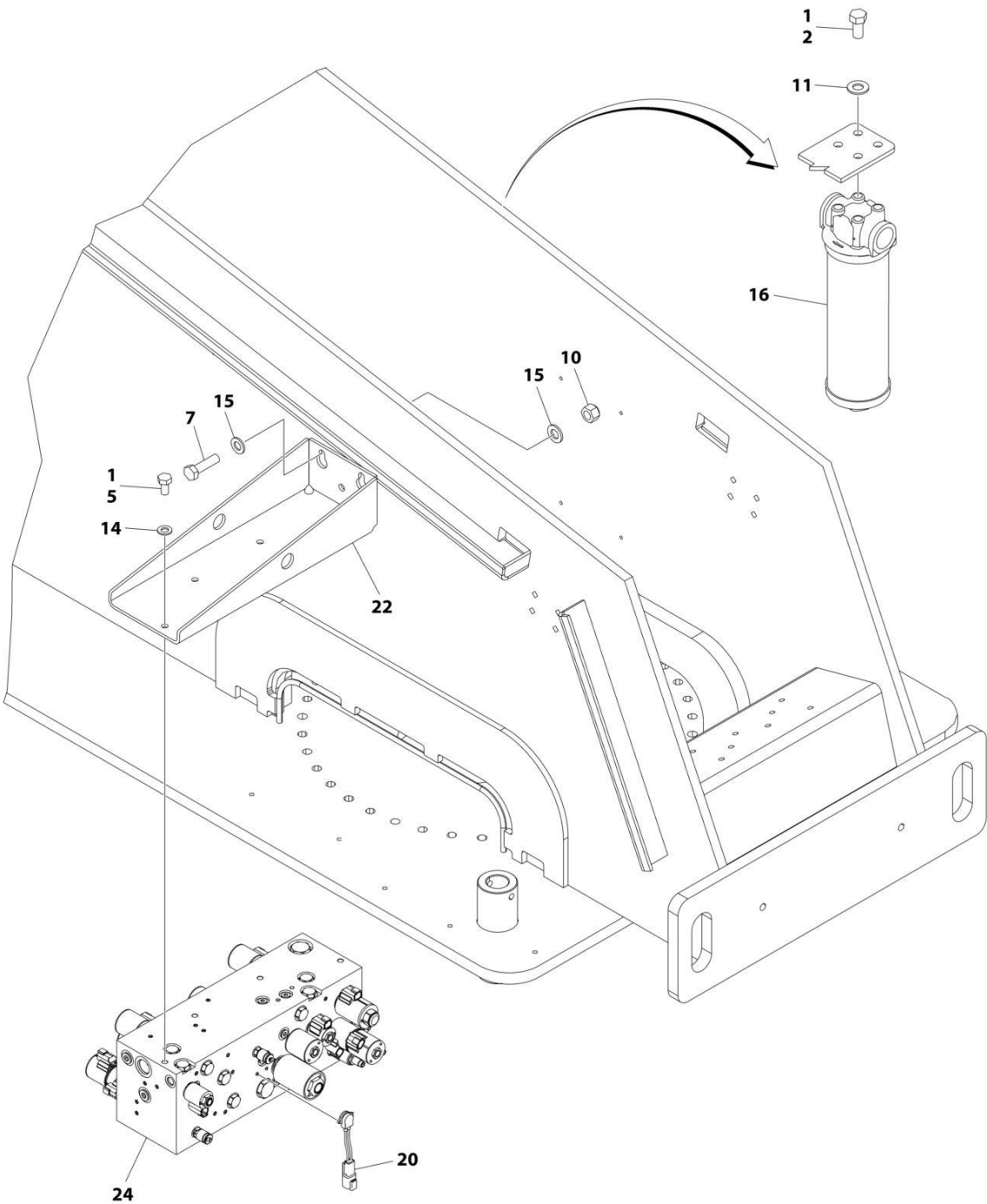
SECTION 2 - TURNTABLE

FIGURE 2-2. VALVE INSTALLATION - TURNTABLE (4WD/2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223931	Ref	VALVE INSTALLATION - TURNTABLE (WITH 4WD/2WS)	B
1	0100011	AR	Compound, Locking	
2	0641606	4	Bolt 3/8 x 3/4	
5	0761010	4	Bolt M10 x 20	
7	0761217	3	Bolt M12 x 45	
10	3291205	3	Nut M12	
11	4711600	4	Washer 3/8	
14	4812000	4	Washer M10	
15	4812100	6	Washer M12	
16	1001108617	1	Filter, Hydraulic	
16	70002231	1	Element, Filter	
20	1001151525	1	Sensor, Temperature	
22	1001151840	1	Bracket	
24	1001219116	1	Main Valve Assembly (See Separate Breakdown in this Section)	

SECTION 2 - TURNTABLE

FIGURE 2-3. VALVE INSTALLATION - TURNTABLE (4WD/4WS)



ART_1001223890_2OF3

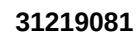
SECTION 2 - TURNTABLE

FIGURE 2-3. VALVE INSTALLATION - TURNTABLE (4WD/4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223890	Ref	VALVE INSTALLATION - TURNTABLE (14WD/4WS)	B
1	0100011	AR	Compound, Locking	
2	0641606	4	Bolt 3/8 x 3/4	
5	0761010	4	Bolt M10 x 20	
7	0761217	3	Bolt M12 x 45	
10	3291205	3	Nut M12	
11	4711600	4	Washer 3/8	
14	4812000	4	Washer M10	
15	4812100	6	Washer M12	
16	1001108617	1	Filter, Hydraulic	
16	70002231	1	Element, Filter	
20	1001151525	1	Sensor, Temperature	
22	1001151840	1	Bracket	
24	1001219116	1	Main Valve Assembly (See Separate Breakdown in this Section)	

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ART_1001219116

SECTION 2 - TURNTABLE

FIGURE 2-4. MAIN VALVE ASSEMBLY

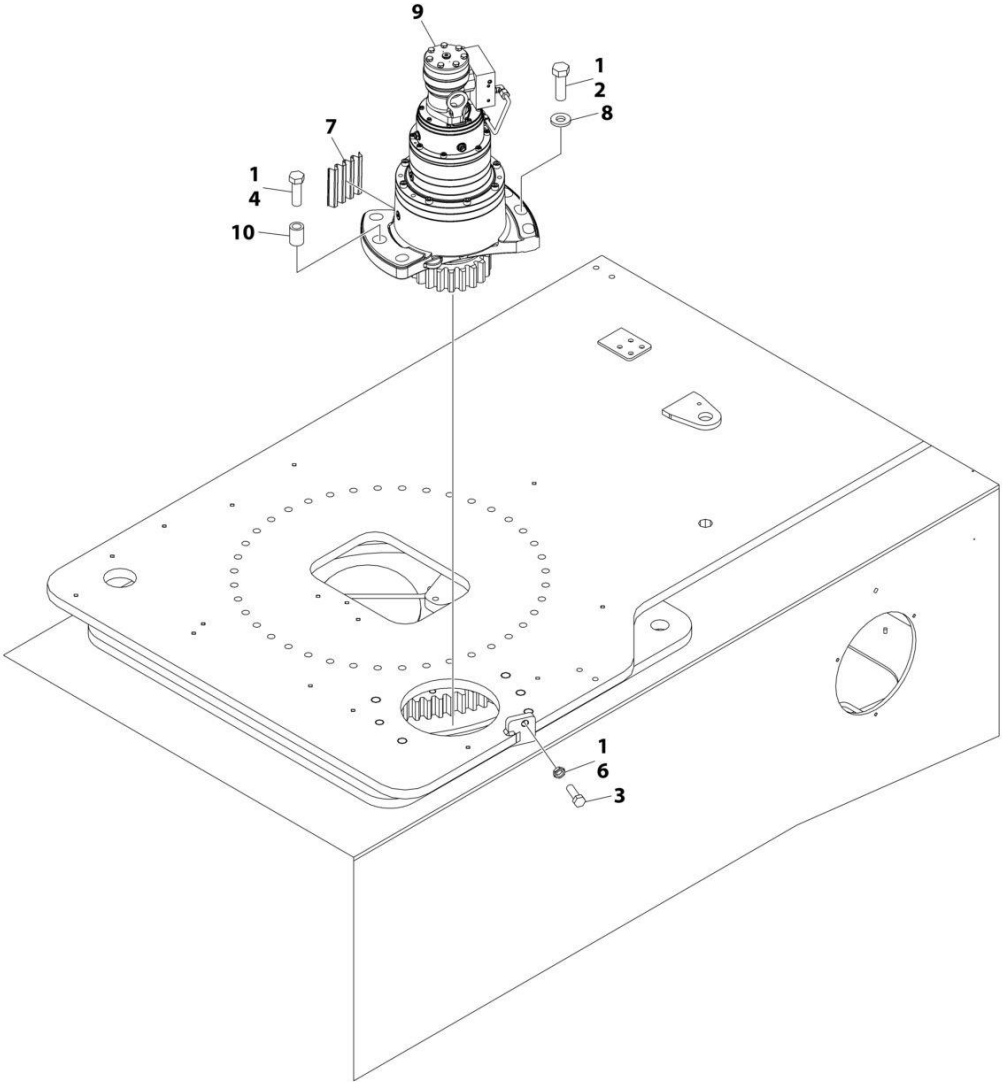
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219116	Ref	MAIN VALVE ASSEMBLY	C
1	7017467	1	Cartridge, Solenoid Valve Less Coil	
1	7012967	1	Seal Kit - 7017467 Valve	
1	7022390	1	Nut, Coil	
2	7017453	1	Cartridge, Solenoid Valve Less Coil	
2	7017402	1	Seal Kit - 7017453 Valve	
2	7022390	1	Nut, Coil	
3	70002386	2	Coil	
4	70002969	1	Cartridge, Proportional Valve	
4	7010543	1	Seal Kit - 70002969 Valve	
4	70005717	1	Lockdown Kit	
5	70002971	1	Coil	
6	70005778	1	Cartridge, Solenoid Valve Less Coil	
6	70003976	1	Seal Kit - 70005778 Valve	
6	70003024	1	Spacer, Coil	
6	7022390	1	Nut, Coil	
7	70006237	1	Cartridge, Solenoid Valve Less Coil	
7	70006238	1	Seal Kit - 70006237 Valve	
7	70003024	1	Spacer, Coil	
7	7022390	1	Nut, Coil	
8	70006239	1	Cartridge, Solenoid Valve Less Coil	
8	7012518	1	Seal Kit - 70006239 Valve	
8	7022390	1	Nut, Coil	
9	7010635	1	Cartridge, Solenoid Valve Less Coil	
9	2900708	1	Seal Kit - 7010635 Valve	
9	7022390	1	Nut, Coil	
10	70003972	1	Cartridge, Solenoid Valve Less Coil	
10	70003976	1	Seal Kit - 70003972 Valve	
10	7022390	1	Nut, Coil	
11	70005781	1	Disc, Check Valve	
12	7023923	2	Cartridge, Solenoid Valve Less Coil	
12	7023919	2	Seal Kit - 7023923 Valve	
12	7022390	2	Nut, Coil	
13	70003788	10	Coil	
14	70005782	1	Cartridge, Solenoid Valve Less Coil	
14	7012925	1	Seal Kit - 70005782 Valve	
14	70027278	1	Nut, Coil	
15	70027006	1	Coil	
16	7021636	2	Cartridge, Proportional Valve	
16	7017495	2	Seal Kit - 7021636 Valve	
16	70005725	2	Lockdown Kit	
17	70003789	2	Coil	
18	7022391	2	Cartridge, Check Valve	
18	7012967	2	Seal Kit - 7022391 Valve	
19	4641129	6	Cartridge, Check Valve	
19	7012540	6	Seal Kit - 4641129 Valve	
20	70006240	1	Cartridge, Check Valve	
20	7023919	1	Seal Kit - 70006240 Valve	
21	7012914	2	Cartridge, Check Valve	
21	7012918	2	Seal Kit - 7012914 Valve	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
22	10837489	1	Cartridge, Check Valve	
22	7023919	1	Seal Kit - 10837489 Valve	
23	7017418	1	Cartridge, Relief Valve	
23	7012998	1	Seal Kit - 7017418 Valve	
24	70006241	1	Cartridge, Relief Valve	
24	7012998	1	Seal Kit - 70006241 Valve	
25	7017420	1	Cartridge, Relief Valve	
25	7012998	1	Seal Kit - 7017420 Valve	
26	70006242	1	Cartridge, Relief Valve	
26	7012998	1	Seal Kit - 70006242 Valve	
27	70005784	1	Cartridge, Relief Valve	
27	7012998	1	Seal Kit - 70005784 Valve	
28	4641210	1	Cartridge, Flow Regulator Valve	
28	7010545	1	Seal Kit - 4641210 Valve	
29	7023924	1	Cartridge, Flow Regulator Valve	
29	7012953	1	Seal Kit - 7023924 Valve	
30	70004152	1	Cartridge, Pressure Compensator Valve	
30	2900707	1	Seal Kit - 70004152 Valve	
31	70005786	1	Cartridge, Valve	
31	2900770	1	Seal Kit - 70005786 Valve	
32	2221086	6	Fitting, Pressure Test	
33	70005785	2	Screw M3 x 3	
34	2220886	7	Plug	
35	2220885	6	Plug	
36	2220883	6	Plug	
37	70006427	1	Orifice	

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FIGURE 2-5. SWING DRIVE INSTALLATION



ART_1001228618

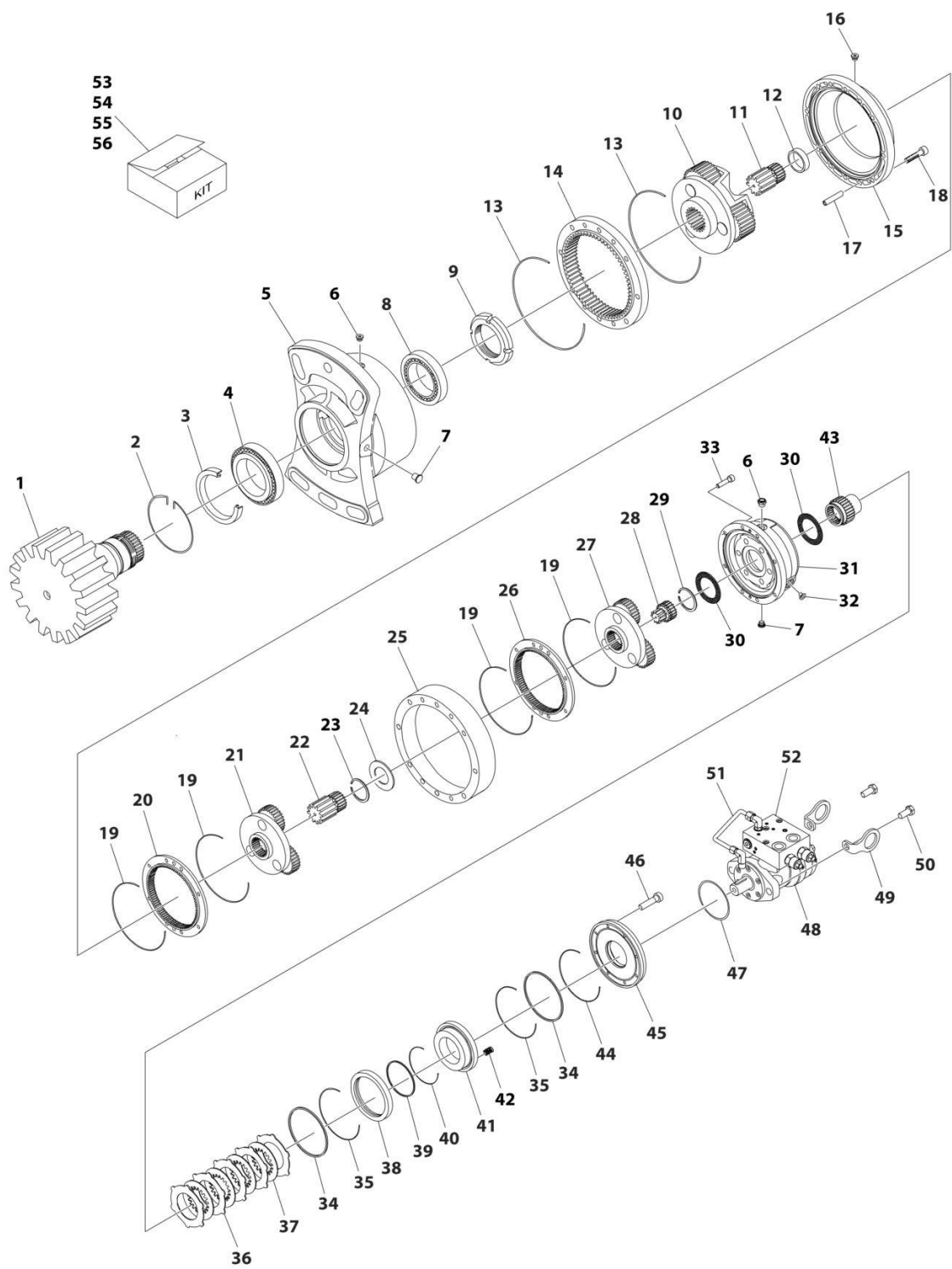
SECTION 2 - TURNTABLE

FIGURE 2-5. SWING DRIVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228618	Ref	SWING DRIVE INSTALLATION	C
1	0100019	AR	Compound, Locking	
2	0682422	5	Bolt 7/8 x 2-3/4 Grade 8	
3	0761618	1	Bolt M16 x 50	
4	0772021	1	Bolt M20 x 65 Grade 10.9	
6	3291602	1	Nut M16	
7	4071041	1	Shim	
8	4892400	5	Washer	
9	1001228488	1	Swing Motor/Hub Assembly (See Separate Breakdown in this Section)	
10	1001229141	1	Sleeve	

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FIGURE 2-6. SWING MOTOR/HUB ASSEMBLY



ART_1001228488

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FIGURE 2-6. SWING MOTOR/HUB ASSEMBLY

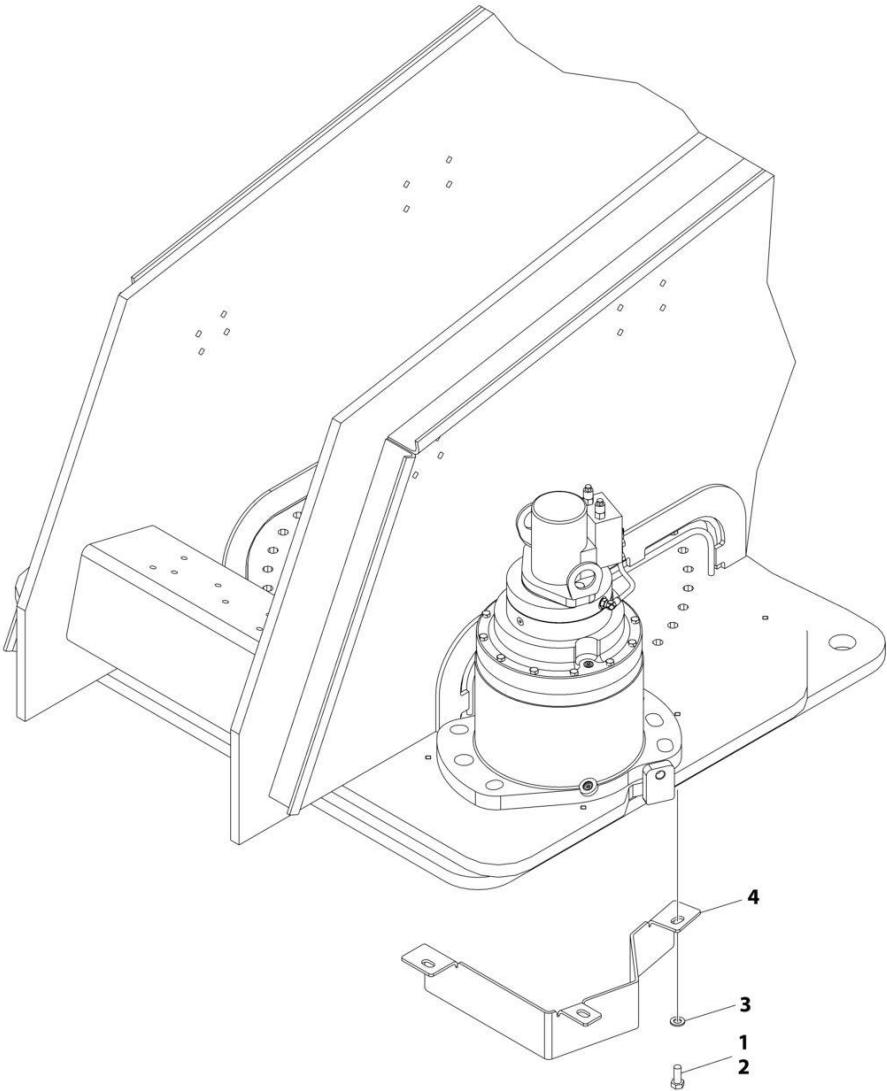
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228488	Ref	SWING MOTOR/HUB ASSEMBLY	B
1	See Note	NSS	Shaft (Note: Use Item 56)	
2	70004467	1	Ring	
3	See Note	NSS	Seal, Oil (Note: Use Item 53)	
4	See Note	NSS	Bearing (Note: Use Item 55)	
5	See Note	NSS	Support, Output (Note: Not Available for Purchase)	
6	70002057	5	Plug with O-Ring	
7	70004469	2	Plug with O-Ring	
8	See Note	NSS	Bearing (Note: Use Item 55)	
9	See Note	NSS	Nut, Ring (Note: Use Item 56)	
10	70006986	1	Reduction, Gear - Complete	
11	70006987	1	Pinion	
12	70004477	1	Spacer	
13	See Note	NSS	O-Ring (Note: Use Item 53)	
14	70004474	1	Ring, Planetary	
15	70006988	1	Spacer	
16	70002057	2	Plug with O-Ring	
17	70006989	4	Pin, Spring	
18	70004480	8	Capscrew M10 x 55	
19	See Note	NSS	O-Ring (Note: Use Item 53)	
20	70006990	1	Ring, Planetary	
21	70006991	1	Reduction, Gear - Complete	
22	70006992	1	Pinion	
23	70002032	1	Ring	
24	70006993	1	Spacer	
25	70006994	1	Spacer	
26	70004481	1	Ring, Planetary	
27	70006995	1	Reduction, Gear - Complete	
28	70006996	1	Pinion	
29	70006997	1	Ring	
30	70006998	2	Washer	
31	See Note	NSS	Housing, Brake (Note: Not Available for Purchase)	
32	70006999	1	Plug	
33	70007000	8	Capscrew M8 x 90	
34	See Note	NSS	Seal (Note: Use Item 53 or 54)	
35	See Note	NSS	O-Ring (Note: Use Item 53 or 54)	
36	See Note	NSS	Disc, Steel (Note: Use Item 54)	
37	See Note	NSS	Disc (Note: Use Item 54)	
38	70005317	1	Spacer	
39	See Note	NSS	Seal (Note: Use Item 53 or 54)	
40	See Note	NSS	O-Ring (Note: Use Item 53 or 54)	
41	70005318	1	Piston, Brake	
42	See Note	NSS	Spring, Brake (Note: Use Item 54)	
43	70007001	1	Shaft, Input	
44	See Note	NSS	O-Ring (Note: Use Item 53 or 54)	
45	70007002	1	Cover	
46	70007003	8	Screw M6 x 25	
47	See Note	NSS	O-Ring (Note: Use Item 53)	
48	70007009	1	Motor	
48	70007011	1	Seal Kit	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	See Note	NSS	Lug, Lifting (Note: Not Available for Purchase)	
50	70004494	2	Capscrew M12 x 35	
51	70007004	1	Brake, Valve Adapter	
52	70007010	1	Valve	
52	70007012	1	Seal Kit	
52	70007013	1	Hardware Kit	
53	70007005	1	Seal Kit – Brake and Hub (Includes Items 3, 13, 19, 34, 35, 39, 40, 44 & 47)	
54	70007006	1	Seal Kit – Brake (Includes Items 34-37, 39, 40, 42 & 44)	
55	70007007	1	Bearing Kit (Includes Items 4 & 8)	
56	70007008	1	Output Shaft Kit (Includes Items 1 & 9)	

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FIGURE 2-7. PINION SHIELD INSTALLATION (OPTIONAL)



ART_1001150078

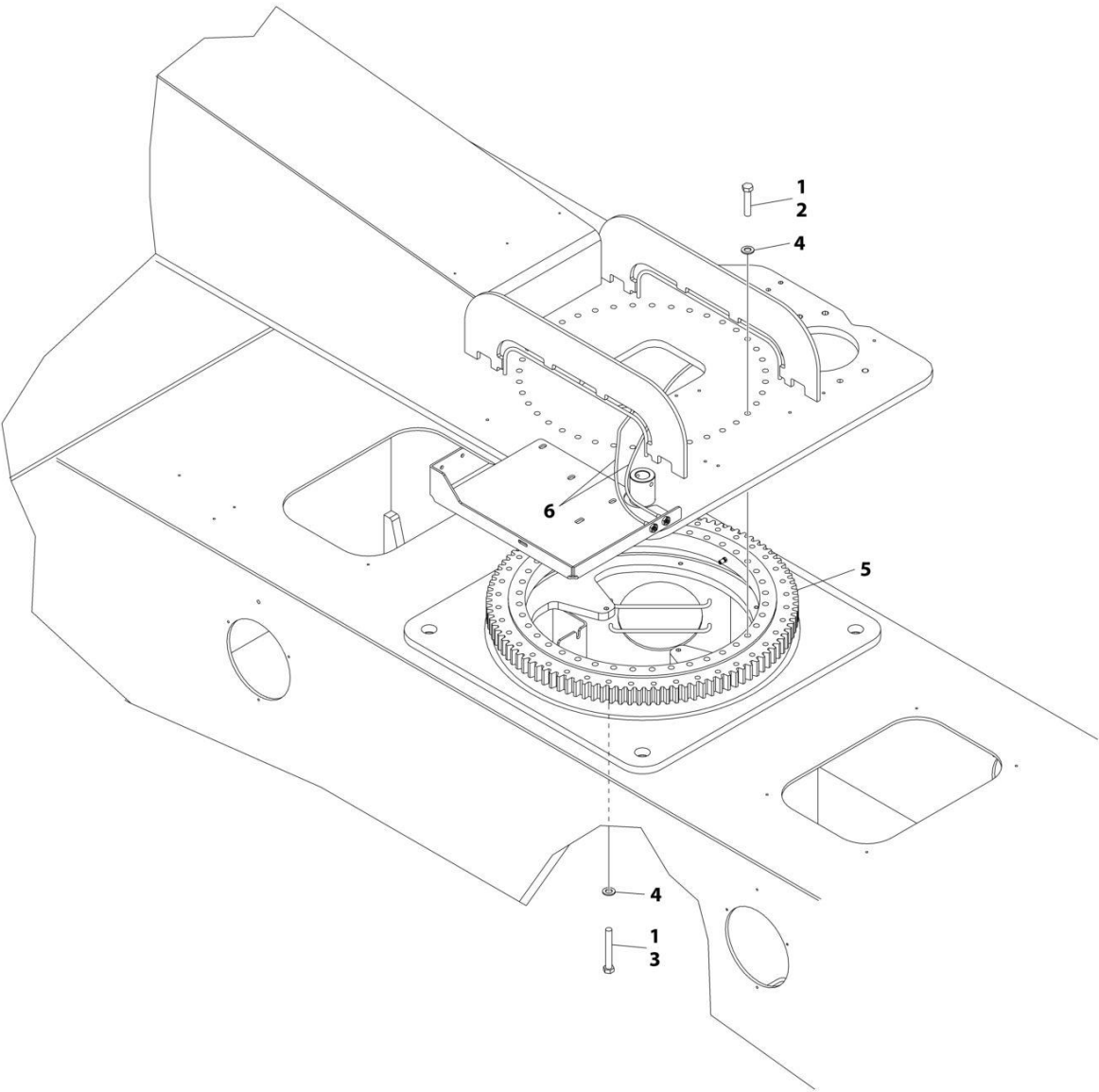
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FIGURE 2-7. PINION SHIELD INSTALLATION (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150078	Ref	PINION SHIELD INSTALLATION (OPTIONAL)	A
1	0100011	AR	Compound, Locking	
2	0761214	3	Bolt M12 x 30	
3	4812100	3	Washer M12	
4	1001151180	1	Shield, Pinion	

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FIGURE 2-8. TURNTABLE BEARING AND LUBE INSTALLATION



ART_1001150026

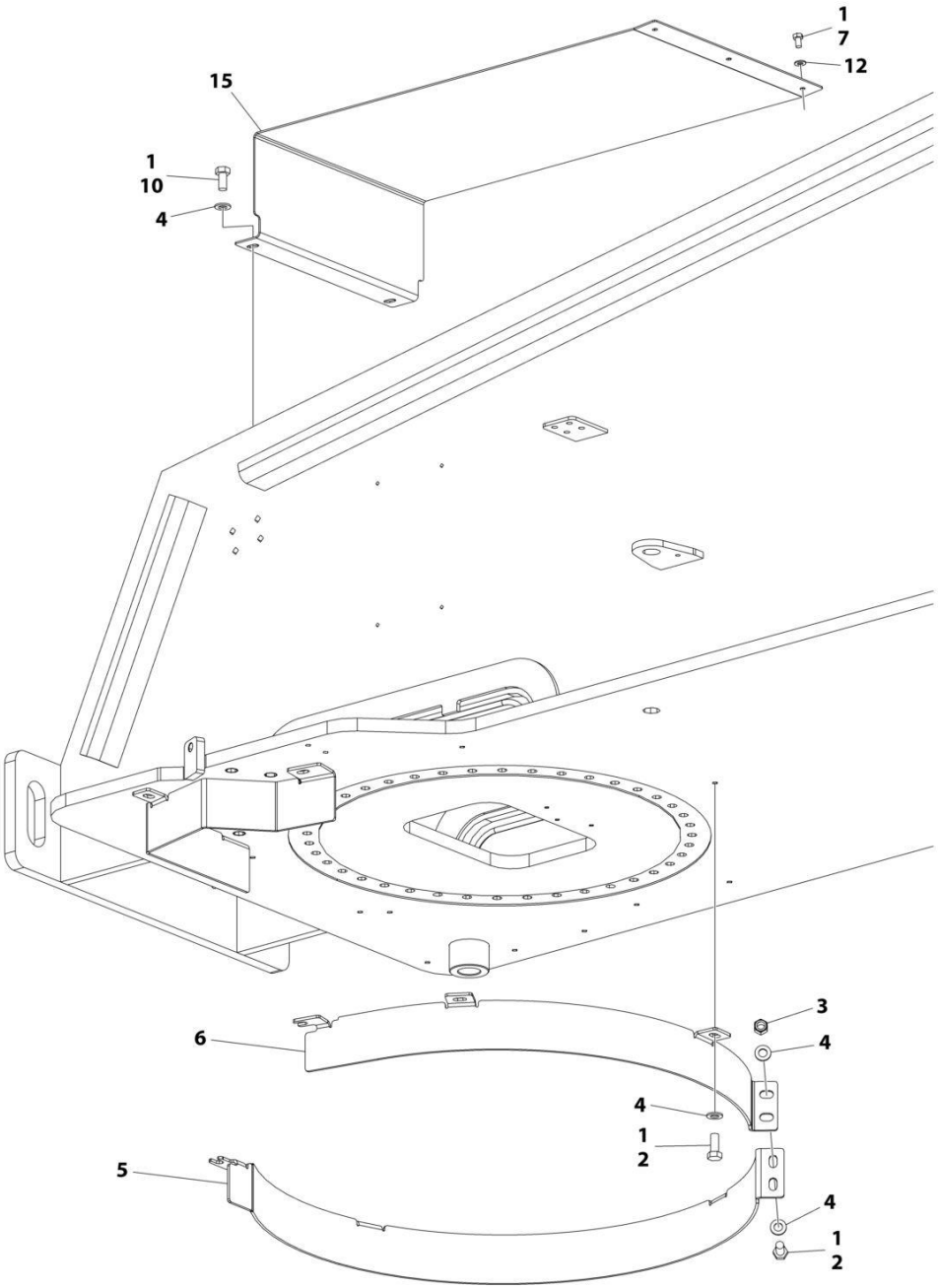
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FIGURE 2-8. TURNTABLE BEARING AND LUBE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150026	Ref	TURNTABLE BEARING AND LUBE INSTALLATION	B
1	0100019	AR	Compound, Locking	
2	0711624	40	Bolt M16 x 80 Grade 10.9	
3	0711629	40	Bolt M16 x 120 Grade 10.9	
4	5241600	80	Washer M16	
5	1001151058	1	Bearing, Swing	
6	1001151646	2	Hose with Fittings	

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FIGURE 2-9. BEARING AND TURNTABLE SHIELDS INSTALLATION



ART_1001150096_1OF2

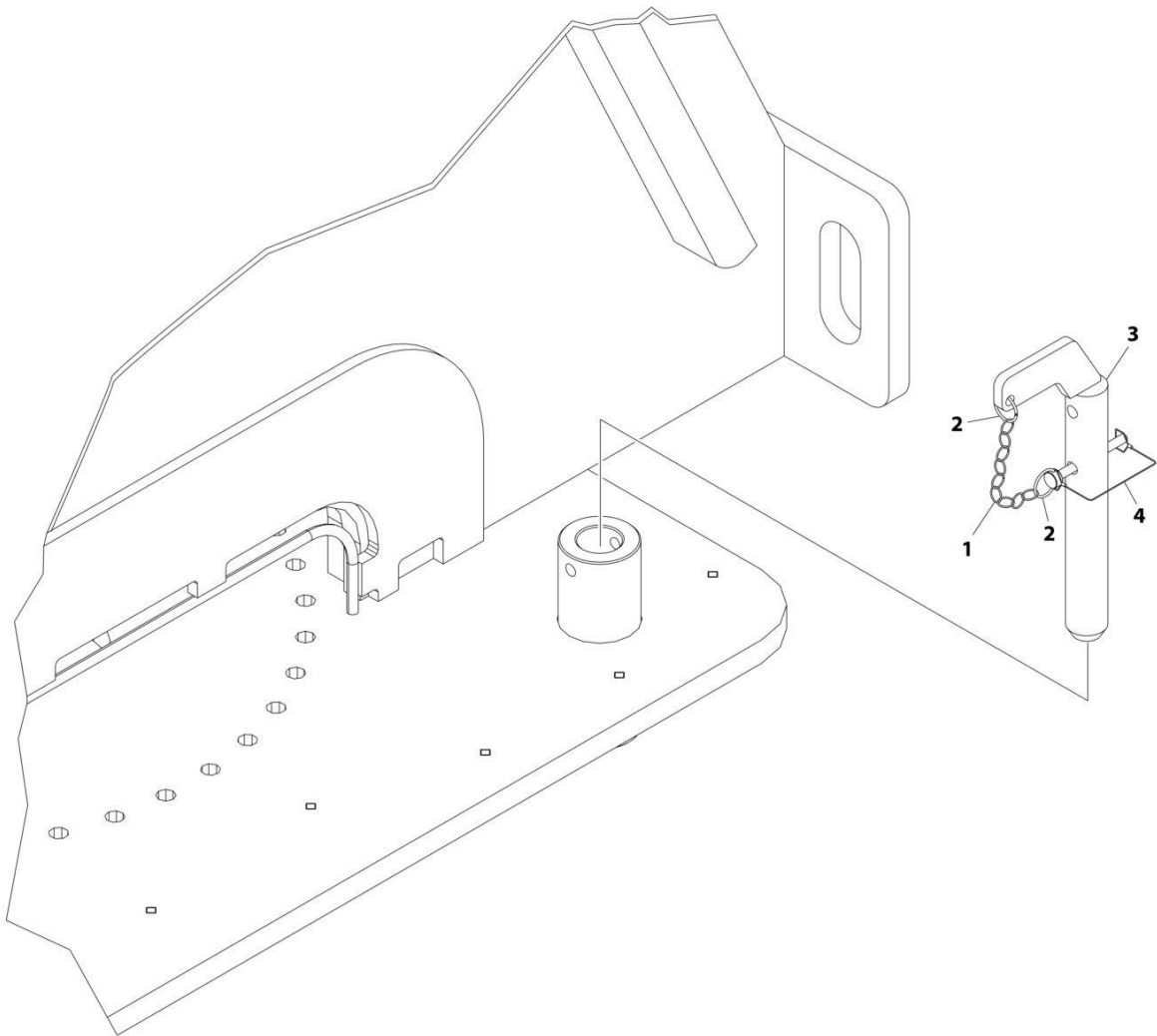
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FIGURE 2-9. BEARING AND TURNTABLE SHIELDS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150096	Ref	BEARING AND TURNTABLE SHIELDS INSTALLATION	I
1	0100011	AR	Compound, Locking	
2	0761214	6	Bolt M12 x 30	
3	3291205	2	Nut M12	
4	4812100	10	Washer M12	
5	1001221679	1	Bracket	
6	1001221680	1	Bracket	
7	0760807	3	Bolt M8 x 14	
10	0761212	2	Bolt M12 x 25	
12	4811900	6	Washer M8	
15	1001151064	1	Cover, Turntable	

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FIGURE 2-10. TURNTABLE LOCK INSTALLATION



ART_1001150019

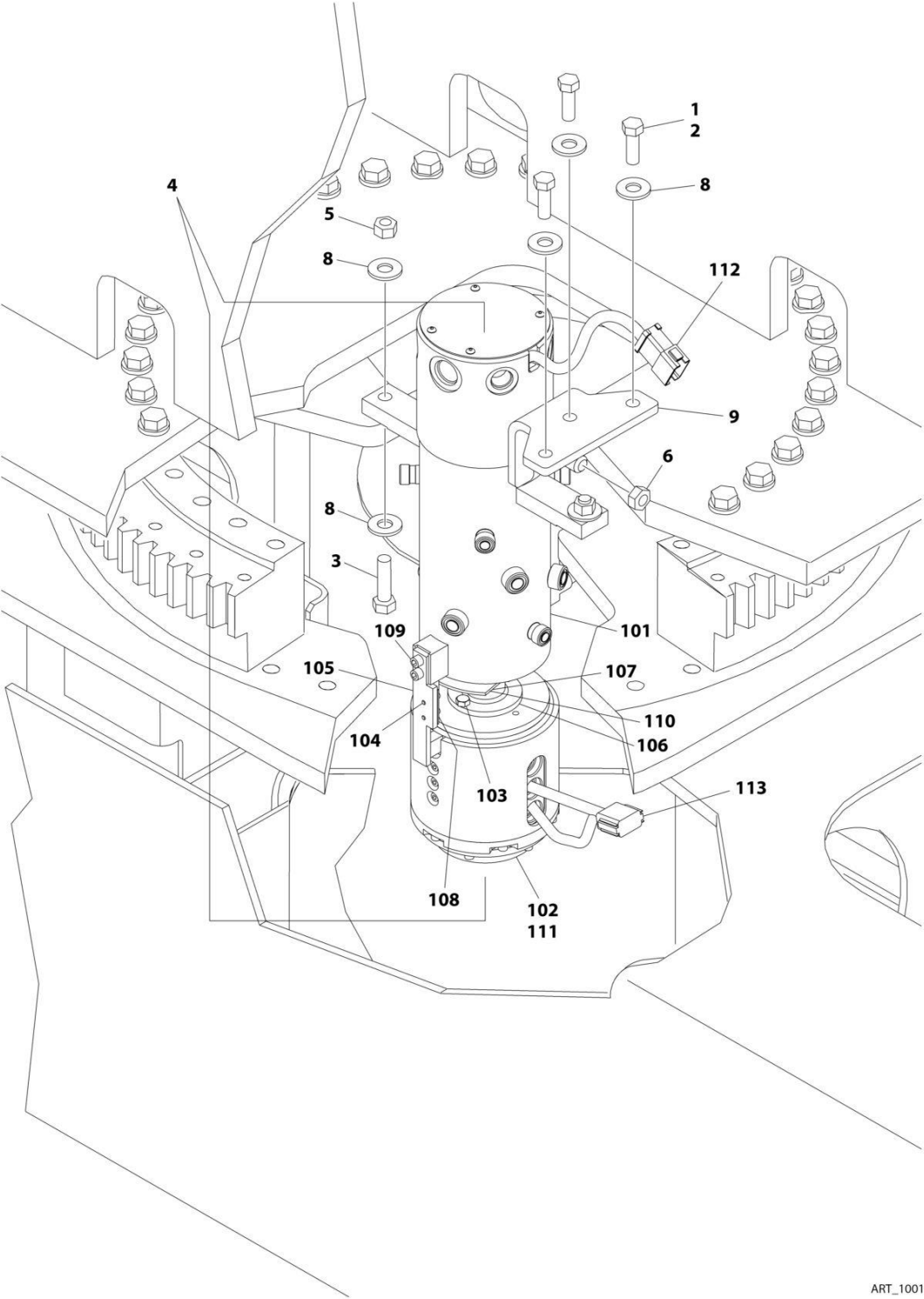
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FIGURE 2-10. TURNTABLE LOCK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150019	Ref	TURNTABLE LOCK INSTALLATION	B
1	1260017	7 in/16cm	Chain	
2	3760170	2	Ring	
3	1001215629	1	Pin	
4	1001151025	1	Pin	

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FIGURE 2-11. ROTARY COUPLING AND COLLECTOR RING INSTALLATION



ART_1001150025

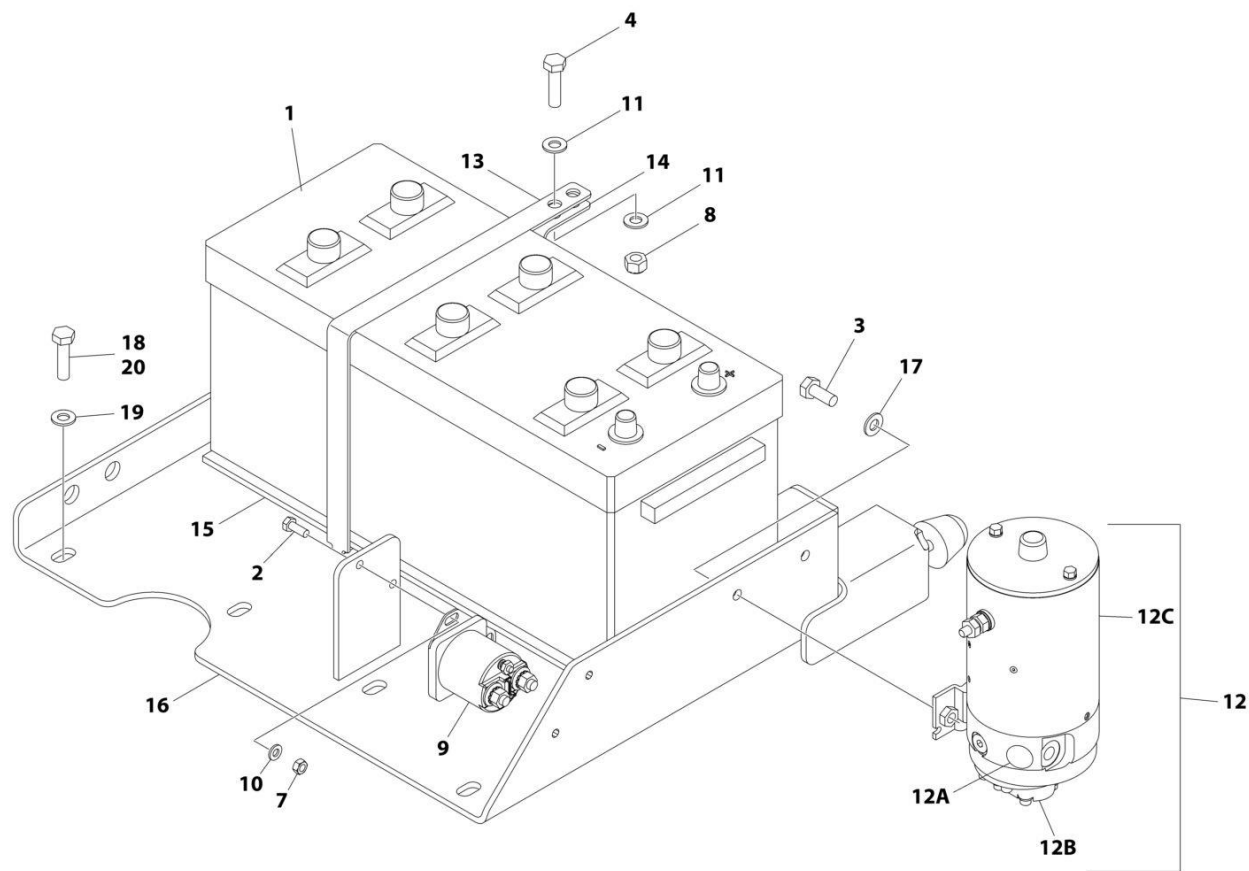
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FIGURE 2-11. ROTARY COUPLING AND COLLECTOR RING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150025	Ref	ROTARY COUPLING AND COLLECTOR RING INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0761214	3	Bolt M12 x 30	
3	0761221	2	Bolt M12 x 65	
4	1001216394	1	Rotary Coupling and Collector Ring Assembly (See Items 101-113 for Breakdown)	
5	3291205	2	Nut M12	
6	3322201	2	Nut 3/4	
8	4812100	7	Washer M12	
9	1001150644	1	Bracket, Swivel	
	1001216394	Ref	ROTARY COUPLING AND COLLECTOR RING ASSEMBLY	A
101	7026665	1	Coupling, Rotary	
101	See Note	1	Bearing (Note: Not Available For Purchase)	
101	70001123	1	Seal Kit - Coupling	
102	7026029	1	Contact, Rotary Circuit (Does not include connector or pins)	
103	0641506	4	Bolt 5/16 x 3/4	
104	3931512	2	Capscrew 5/16 x 3/4	
105	70005456	1	Arm, Torque	
106	See Note	NSS	Adapter (Note: Not Available For Purchase)	
107	7026030	1	Plate, Cam	
108	7026031	1	Sensor, Proximity	
109	3931008	2	Capscrew #10 x 1/2	
110	7026032	1	Pin, Dowel	
111	0100048	AR	Grease, Silicone (Apply to Contact Connector)	
112	4460837	1	Receptacle, Female - 12 Position	
112	4460943	3	Pin, Male	
112	4460941	5	Pin, Male	
112	4460466	4	Plug, Terminal	
113	4460836	1	Plug, Male - 12 Position	
113	4460944	3	Socket, Female	
113	4460942	7	Socket, Female	
113	4460466	2	Plug, Terminal	

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FIGURE 2-12. BATTERY TRAY AND AUXILIARY PUMP INSTALLATION



ART_1001148588

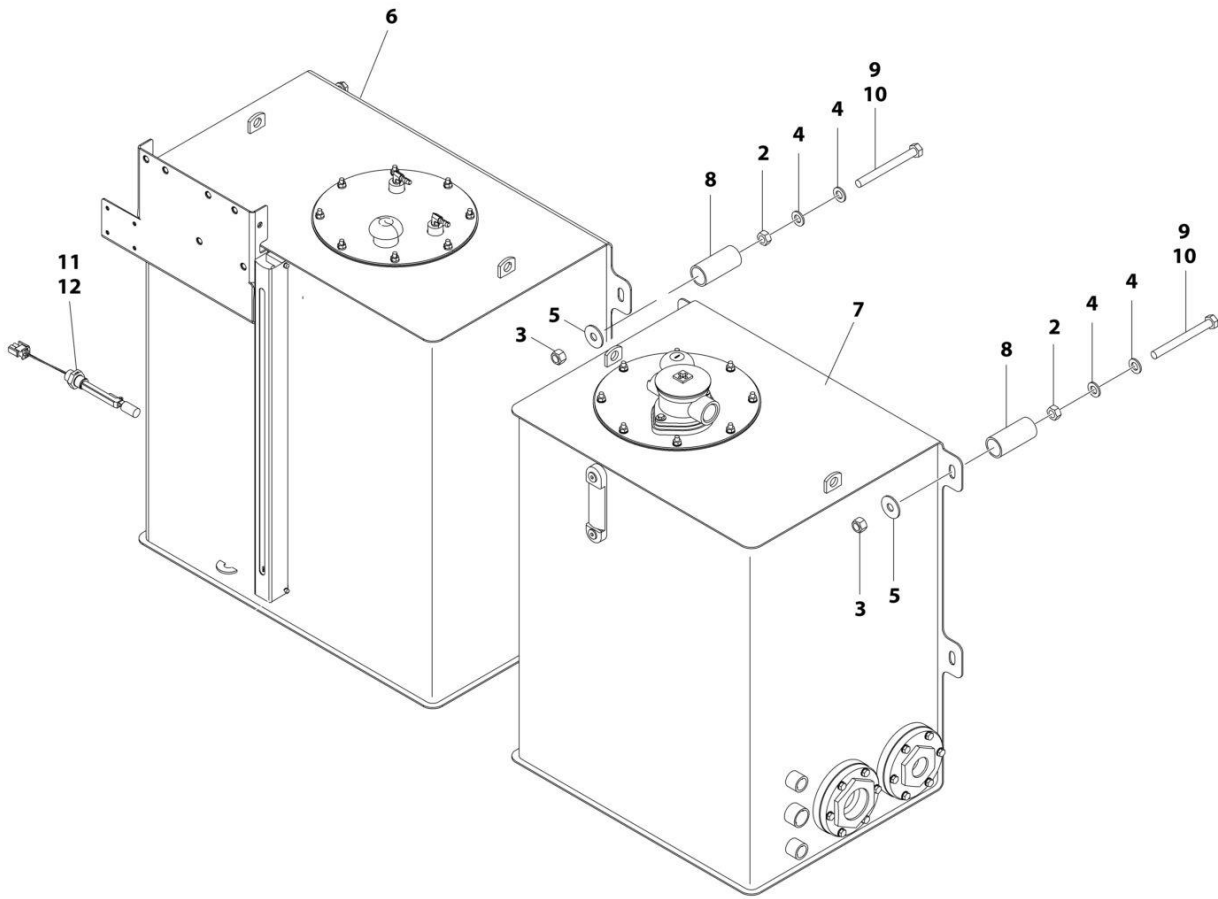
SECTION 2 - TURNTABLE

FIGURE 2-12. BATTERY TRAY AND AUXILIARY PUMP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001148588	Ref	BATTERY TRAY AND AUXILIARY PUMP INSTALLATION	E
1	0400020	1	Battery	
2	0760608	2	Bolt M6 x 16	
3	0681607	2	Bolt 3/8 x 7/8	
4	0761016	1	Bolt M10 x 40	
7	3290601	2	Nut M6	
8	3291005	1	Nut M10	
9	3740067	1	Relay	
10	4811700	2	Washer M6	
11	4812000	2	Washer M10	
12	3600424	1	Auxiliary Pump Assembly	
12A	70024669	1	Mounting Kit (Includes Coupling, Gasket and Hardware)	
12A	7011016	1	Coupling	
12A	7011044	1	Gasket	
12A	7011043	4	Bolt	
12A	7011048	4	Washer	
12B	7029593	1	Pump Kit (Includes Pump, Coupling, Gasket and Hardware)	
12C	70001056	1	Motor Kit (Includes Motor, Adapter and Coupling)	
13	1001148584	1	Bracket, Tie Down	
14	1001148585	1	Bracket, Tie Down	
15	1001148587	1	Insulate	
16	1001151730	1	Tray Battery	
17	4711600	2	Washer 3/8	
18	0761214	4	Bolt M12 x 30	
19	4812100	4	Washer M12	
20	0100011	AR	Compound, Locking	

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FIGURE 2-13. TANKS INSTALLATION



ART_1001150016

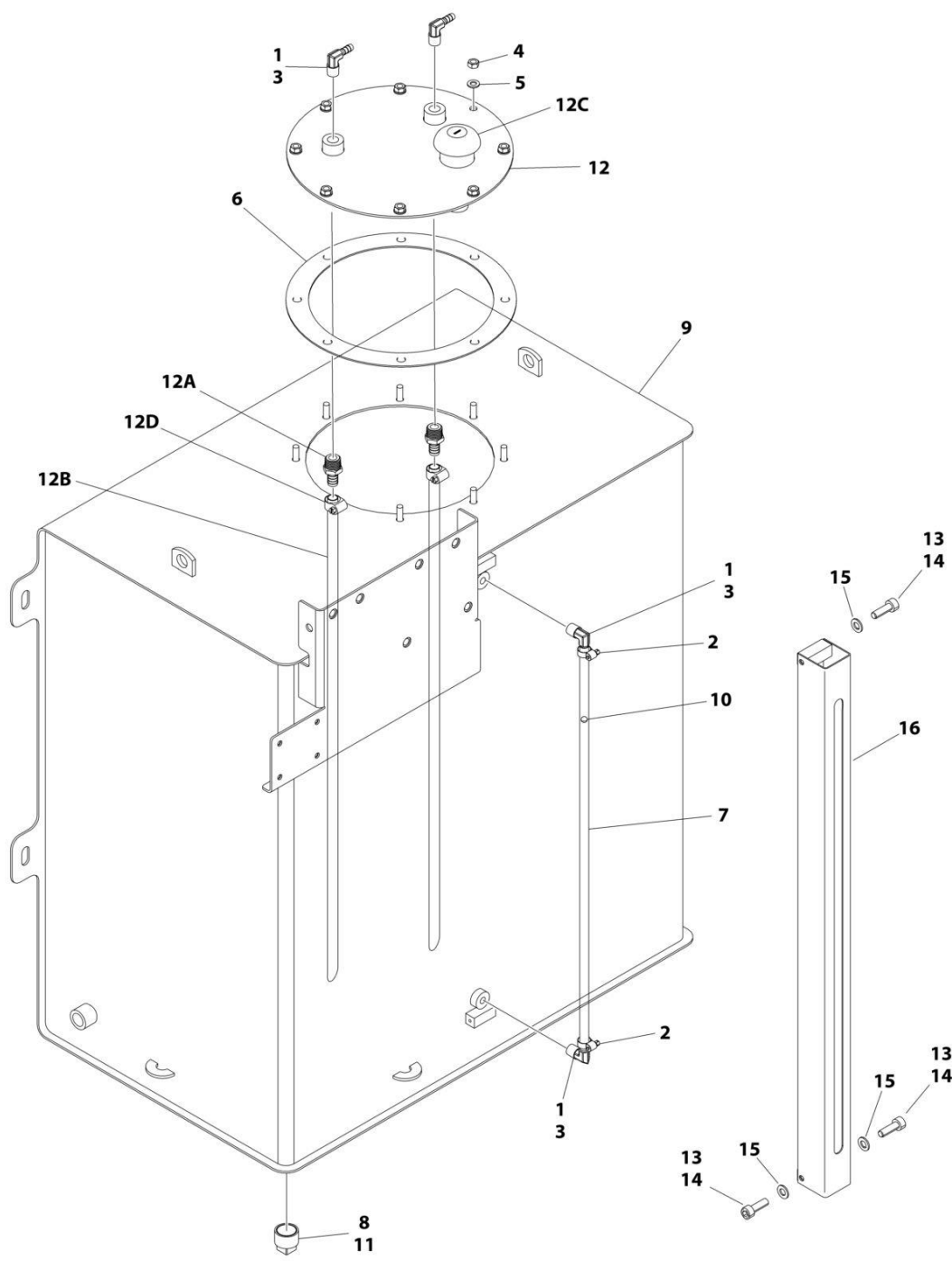
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FIGURE 2-13. TANKS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150016	Ref	TANKS INSTALLATION	F
2	3291201	8	Nut M12	
3	3291205	8	Nut M12	
4	4812100	16	Washer M12	
5	4812102	8	Washer M12	
6	1001221175	1	Fuel Tank Assembly (See Separate Breakdown in this Section)	
7	1001221284	1	Hydraulic Tank Assembly (See Separate Breakdown in this Section)	
8	1001151809	8	Sleeve	
9	0100011	AR	Compound, Locking	
10	0761229	8	Bolt M12 x 120	
11	1001182997	AR	Adhesive	
12	4360436	1	Switch, Fuel Level	

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FIGURE 2-14. FUEL TANK ASSEMBLY



ART_1001221175

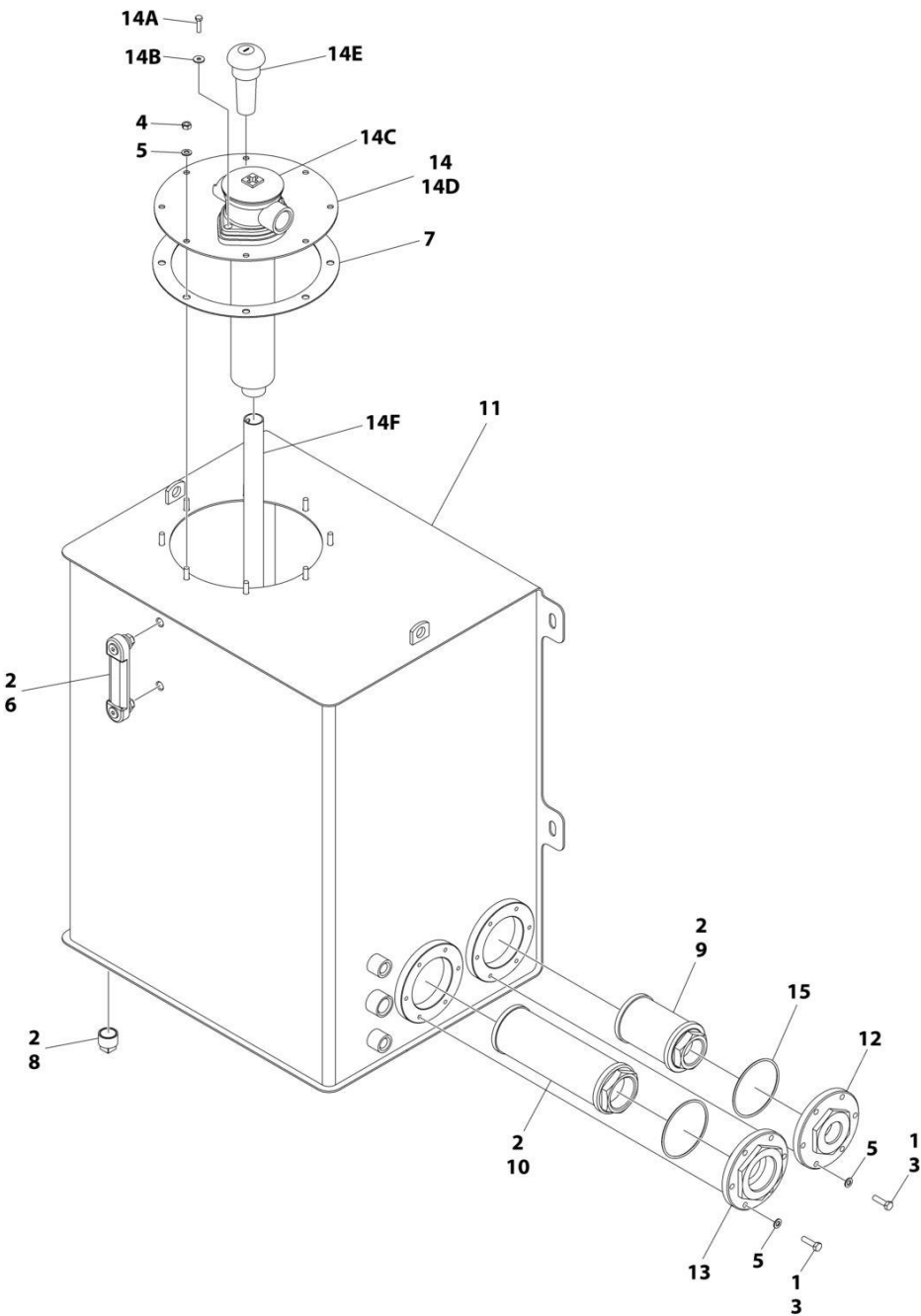
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FIGURE 2-14. FUEL TANK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221175	Ref	FUEL TANK ASSEMBLY	E
1	0100020	1	Sealant	
2	1001174486	2	Clamp	
3	2220313	4	Fitting, 90 NPTF/BARB	
4	3290801	8	Nut M8	
5	4811900	8	Washer M8	
6	1001147229	1	Gasket	
7	1001147230	1	Pipe, Nylon	
8	1001228485	1	Plug	
9	See Note	NSS	Tank, Fuel (Note: Use p/n 1001221175)	
10	1001150902	1	Ball	
11	1001182997	AR	Adhesive	
12	1001221173	1	Lid Assembly	
12A	1001147223	2	Fitting, Straight BARB/NPT	
12B	1001147231	2	Pipe, Nylon	
12C	See Note	NSS	Screen, Filter (Note: Use p/n 1001221172)	
12C	See Note	NSS	Cap, Filter (Note: Use p/n 1001221172)	
12D	8410013	2	Clamp	
13	0100011	AR	Loctite #242	
14	4031607	3	Bolt M5 x 16	
15	4811600	AR	Washer M5	
16	1001236143	1	Cover, Fuel Gauge	

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FIGURE 2-15. HYDRAULIC TANK ASSEMBLY



ART_1001221284

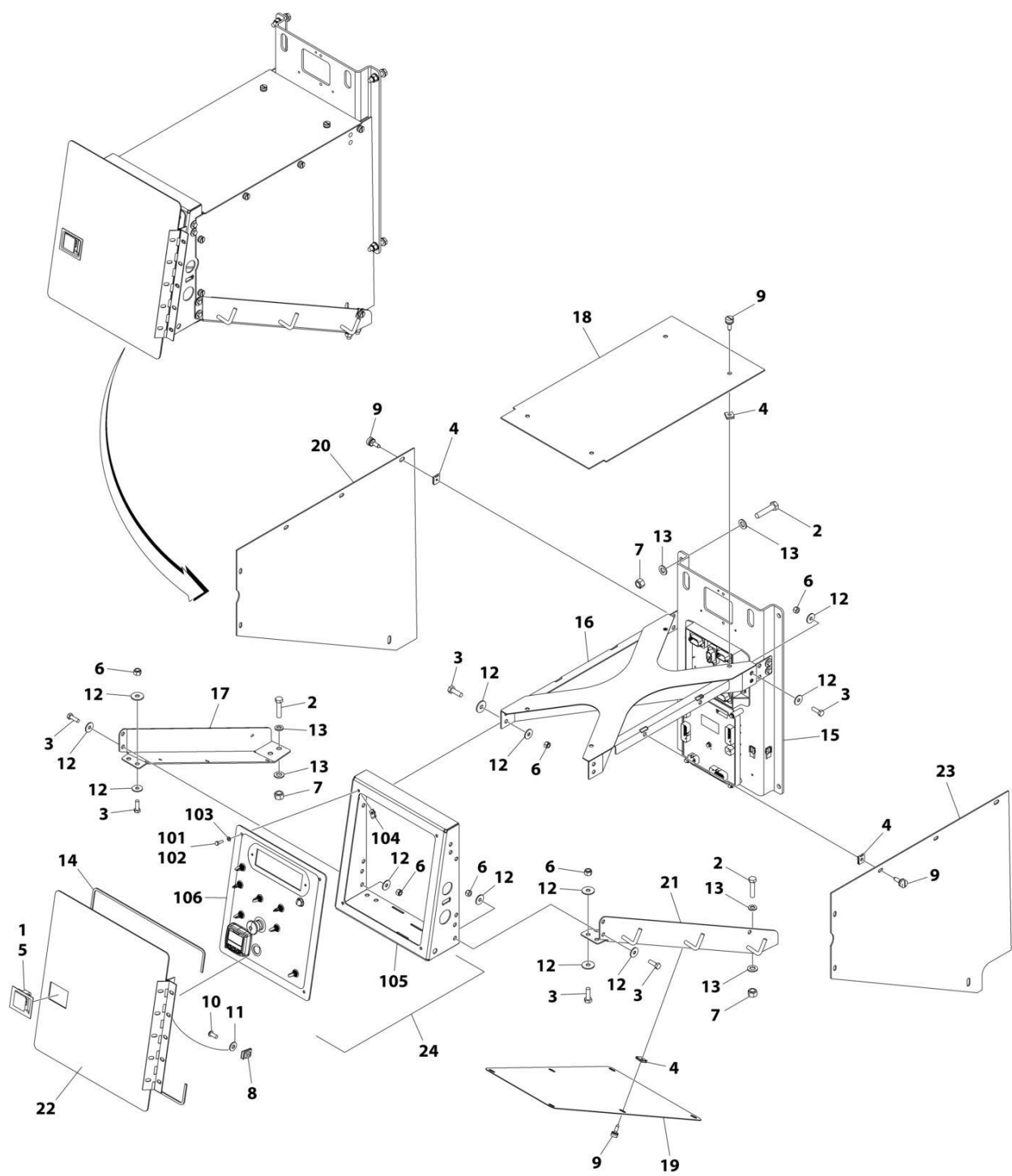
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FIGURE 2-15. HYDRAULIC TANK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221284	Ref	HYDRAULIC TANK ASSEMBLY	C
1	0100011	AR	Compound, Locking	
2	0100020	1	Sealant	
3	0760814	12	Bolt M8 x 30	
4	3290801	8	Nut M8	
5	4811900	20	Washer M8	
6	7024441	1	Gage, Sight	
7	1001147229	1	Gasket	
8	1001228485	1	Plug	
9	1001230051	1	Filter, Suction	
10	1001221286	1	Filter, Suction	
11	See Note	NSS	Tank, Hydraulic (Note: Use p/n 1001221284)	
12	1001221290	1	Adapter, Mounting	
13	1001221291	1	Adapter, Mounting	
14	1001221312	1	Lid Assembly	
14A	0100011	AR	Compound, Locking	
14A	0760612	2	Bolt M6 x 25	
14B	4811702	2	Washer M6	
14C	1001147551	1	Hydraulic Filter Assembly	
14C	70005707	1	Element, Filter	
14D	1001221313	1	Lid Assembly	
14E	See Note	1	Screen, Filter (Note: Use p/n 1001221172)	
14E	See Note	1	Cap, Filter (Note: Use p/n 1001221172)	
14F	1001221340	1	Pipe	
15	1001221334	2	O-Ring	

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FIGURE 2-16. ELECTRICAL COMPONENTS INSTALLATION



ART_1001248435_B

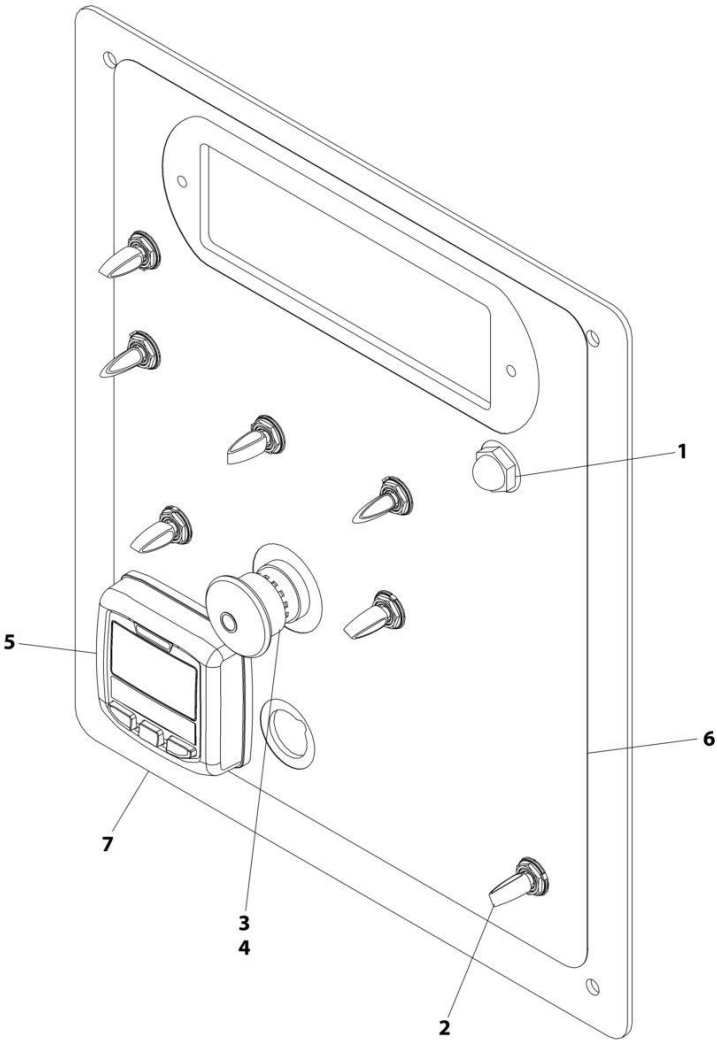
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FIGURE 2-16. ELECTRICAL COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248435	Ref	ELECTRICAL COMPONENTS INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0701219	8	Bolt M12 x 55	
3	0760812	16	Bolt M8 x 25	
4	1380169	22	Clip	
5	2940045	1	Latch	
6	3290805	16	Nut M8	
7	3291205	8	Nut M12	
8	3300364	3	Nut, Tinnerman 5/16	
9	3900174	22	Screw, Thumb	
10	3900210	3	Screw 5/16 x 3/4	
11	4751500	3	Washer 5/16	
12	4811902	32	Washer M8	
13	4812100	16	Washer M12	
14	1001113047	5 ft/1.5m	Seal	
15	1001152193	1	Electrical Assembly (See Separate Breakdown in this Section)	
16	1001152214	1	Support (Top)	
17	1001152217	1	Support (LH)	
18	1001217857	1	Cover (Top)	
19	1001217858	1	Cover (Bottom)	
20	1001217859	1	Cover (Side)	
21	1001217864	1	Support (RH)	
22	1001218545	1	Door	
23	1001223930	1	Cover (Side)	
24	1001266229	1	Ground Control Box Assembly (Includes Items 101-106)	A
101	0100011	AR	Compound, Locking	
102	0760610	4	Bolt M6x20	
103	4811700	4	Washer M6	
104	1001130220	4	Nut, Tinnerman M6	
105	1001152197	1	Box	
106	1001266228	1	Ground Control Panel Assembly (See Separate Breakdown in this Section)	

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FIGURE 2-17. GROUND CONTROL PANEL ASSEMBLY



ART_1001266228

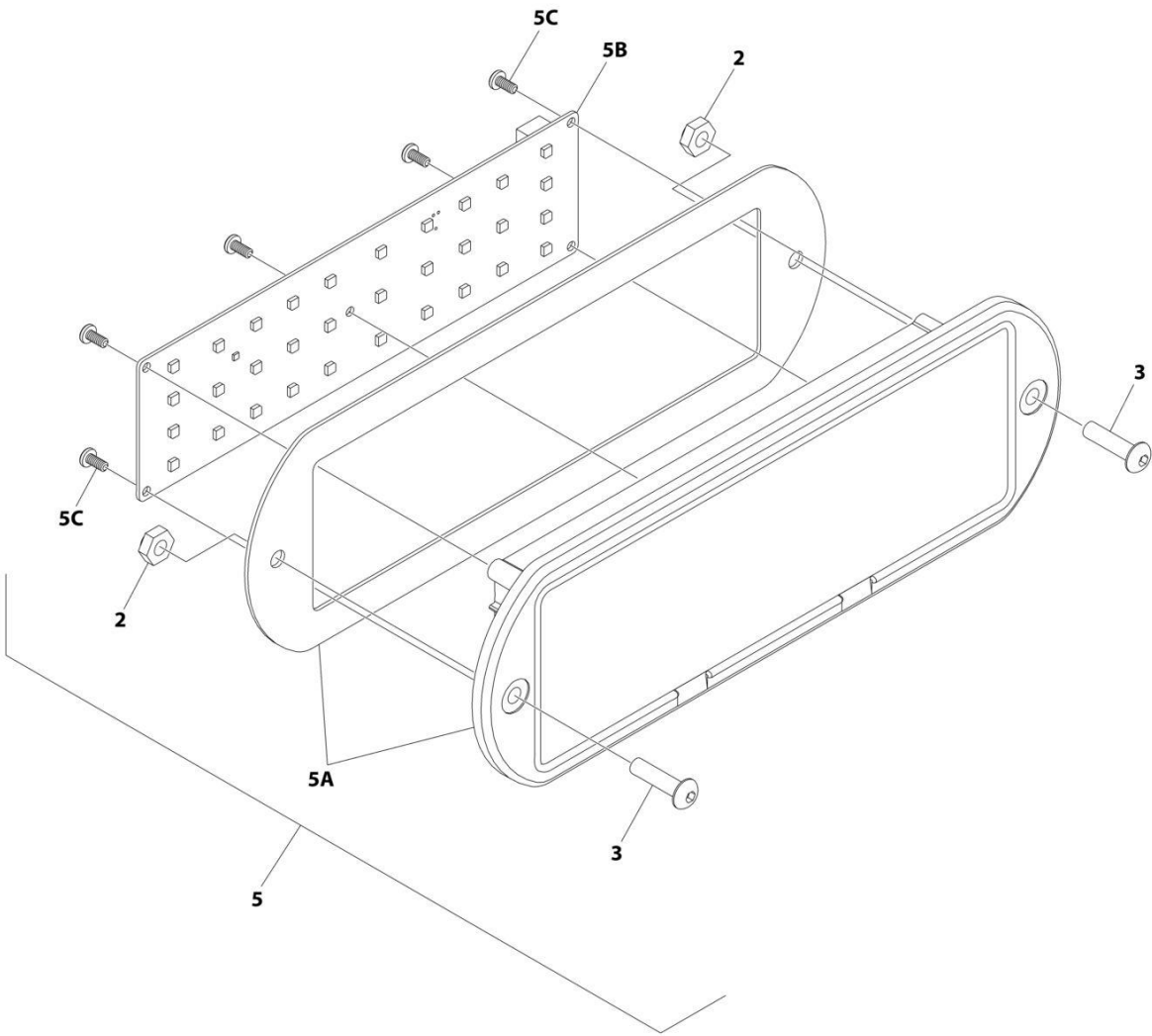
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FIGURE 2-17. GROUND CONTROL PANEL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001266228	Ref	GROUND CONTROL PANEL ASSEMBLY	A
1	4360274	1	Switch, Push Button	
2	4360328	7	Switch, Toggle	
3	4360475	1	Switch, Emergency Stop	
3	7020175	1	Cap	
3	7020176	1	Block, Contact	
4	4360476	2	Block, Contact	
5	1001171482	1	Gauge	
6	1001266221	1	Decal - Ground Control	
7	1001266222	1	Panel	

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FIGURE 2-18. LIGHT PANEL INSTALLATION



ART_1001241403_10F2

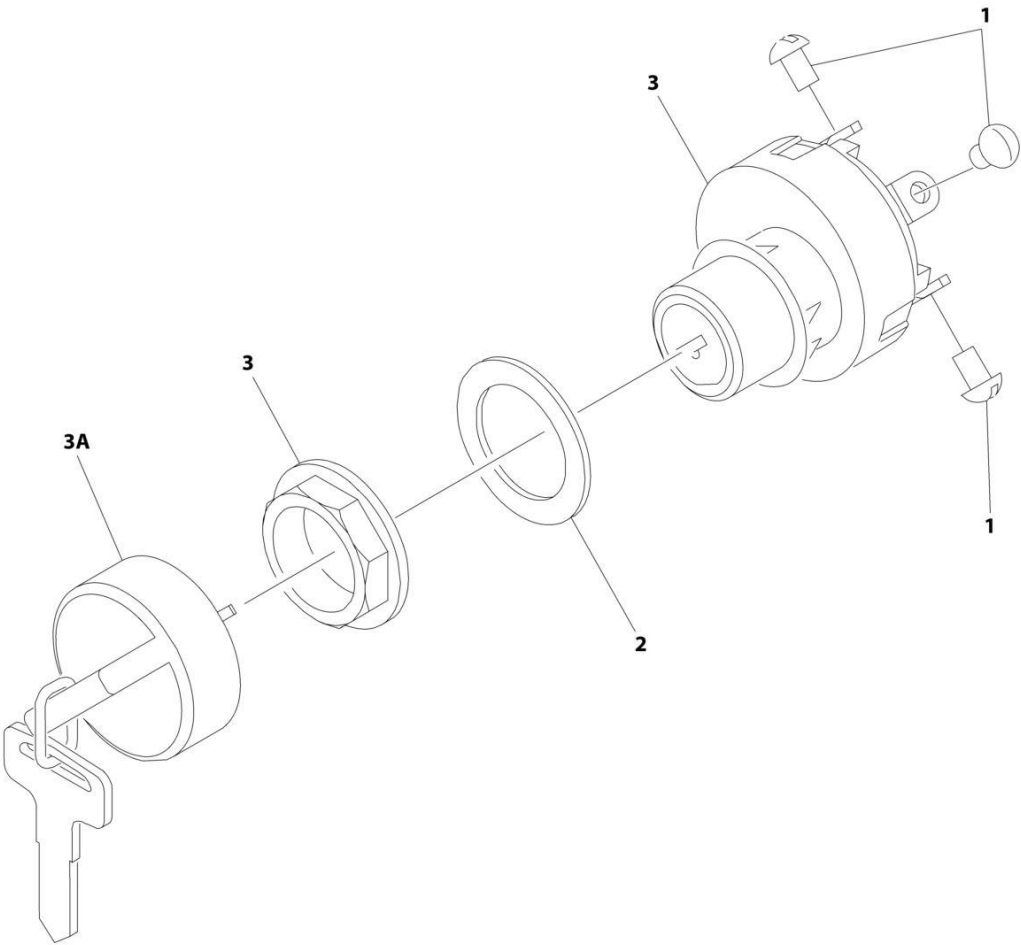
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FIGURE 2-18. LIGHT PANEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241403	Ref	LIGHT PANEL INSTALLATION - GROUND CONTROL	C
2	3300408	2	Nut, Nylon Insert	H
3	0630518	2	Screw #10 x 3/4	
5	1001238674	1	Light Panel Assembly	
5A	1001236092	1	Lens Assembly (Includes Housing Shell, Decal/Lens with Icons & Gasket)	
5B	1001238732	1	Panel, LED Light	
5C		Ref	Screw	

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FIGURE 2-19. KEYSWITCH INSTALLATION



ART_0259666

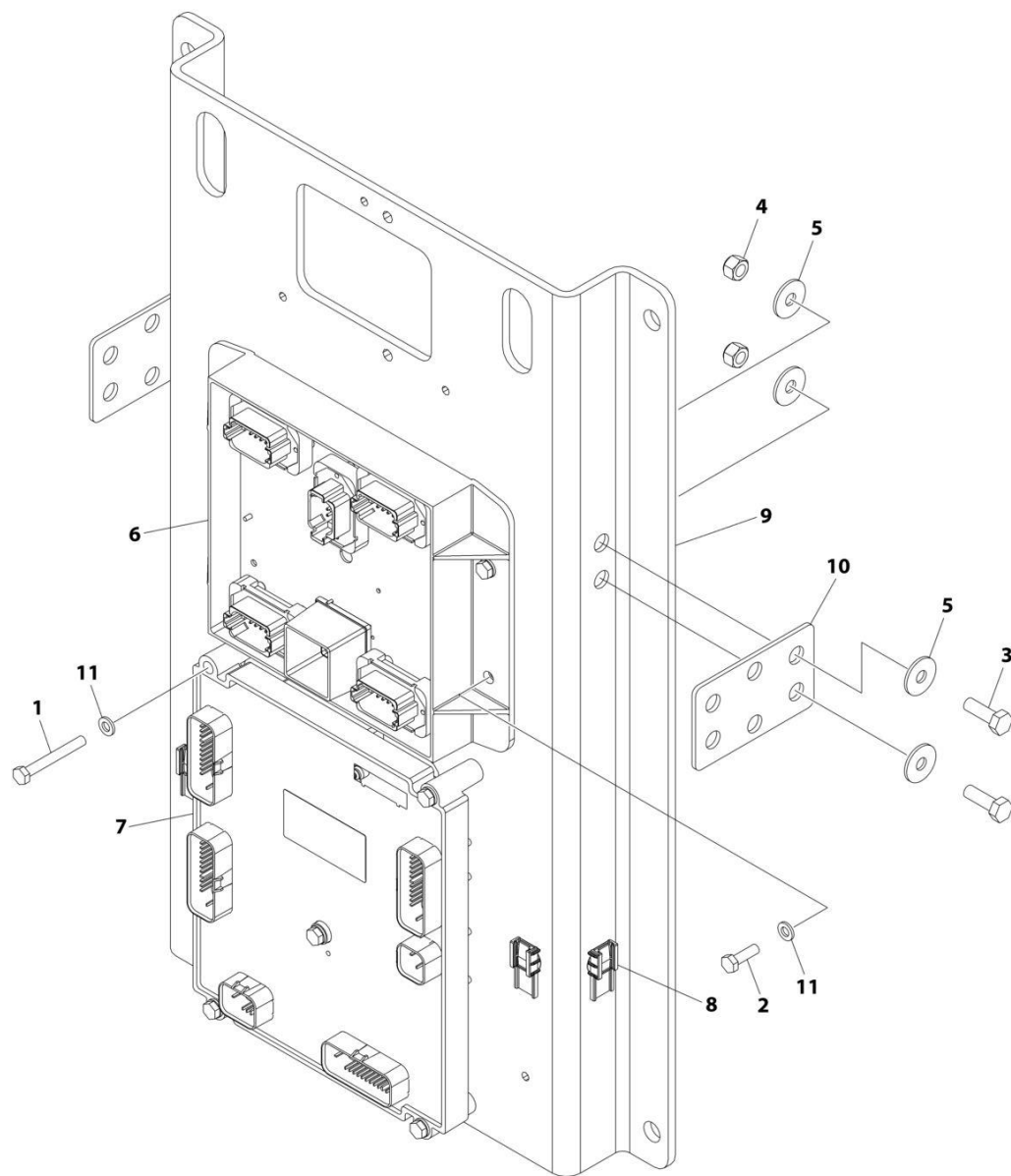
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FIGURE 2-19. KEYSWITCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0259666	Ref	KEYSWITCH INSTALLATION	B
1	3910804	6	Screw #8 x 1/8	
2	1001151393	1	Shim .063	
3	4360469	1	Keyswitch	
3A	2860030	1	Key, Replacement	

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FIGURE 2-20. ELECTRICAL ASSEMBLY



ART_1001152193

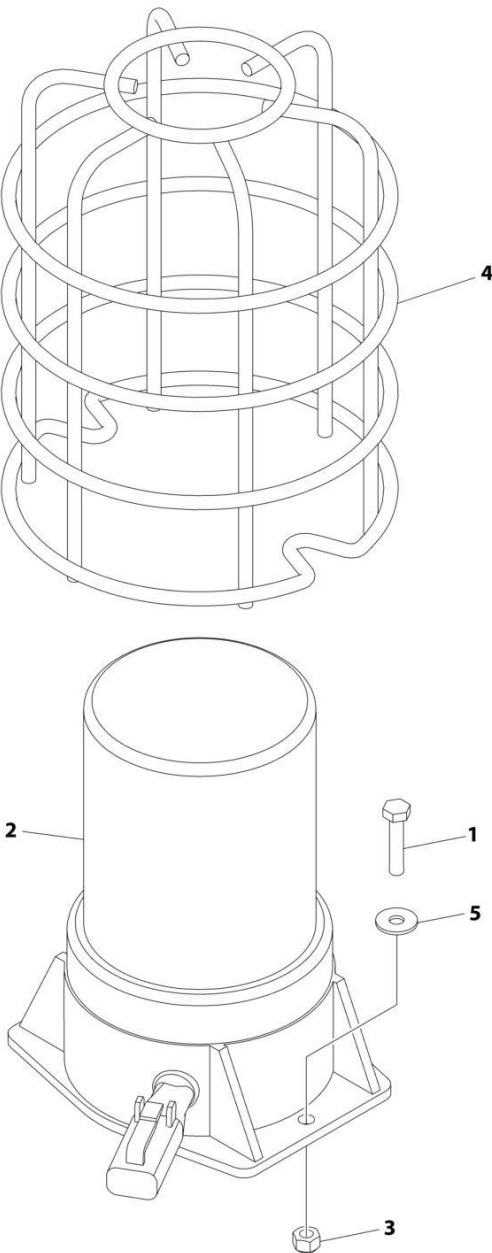
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FIGURE 2-20. ELECTRICAL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152193	Ref	ELECTRICAL ASSEMBLY	G
1	0700618	5	Bolt M6 x 50	
2	0760610	4	Bolt M6 x 20	
3	0760812	4	Bolt M8 x 25	
4	3290805	4	Nut M8	
5	4811902	8	Washer M8	
6	1001227960	1	Module, Boom Length and Angle Control (Note: Re-calibration Required when Replaced)	
7	1001151274	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
8	1001121172	4	Mount, Terminal	
9	1001152194	1	Plate	
10	1001152195	2	Mount	
11	4811700	9	Washer M6	

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FIGURE 2-21. STROBE LIGHT INSTALLATION - AMBER (OPTIONAL)



ART_1001151701

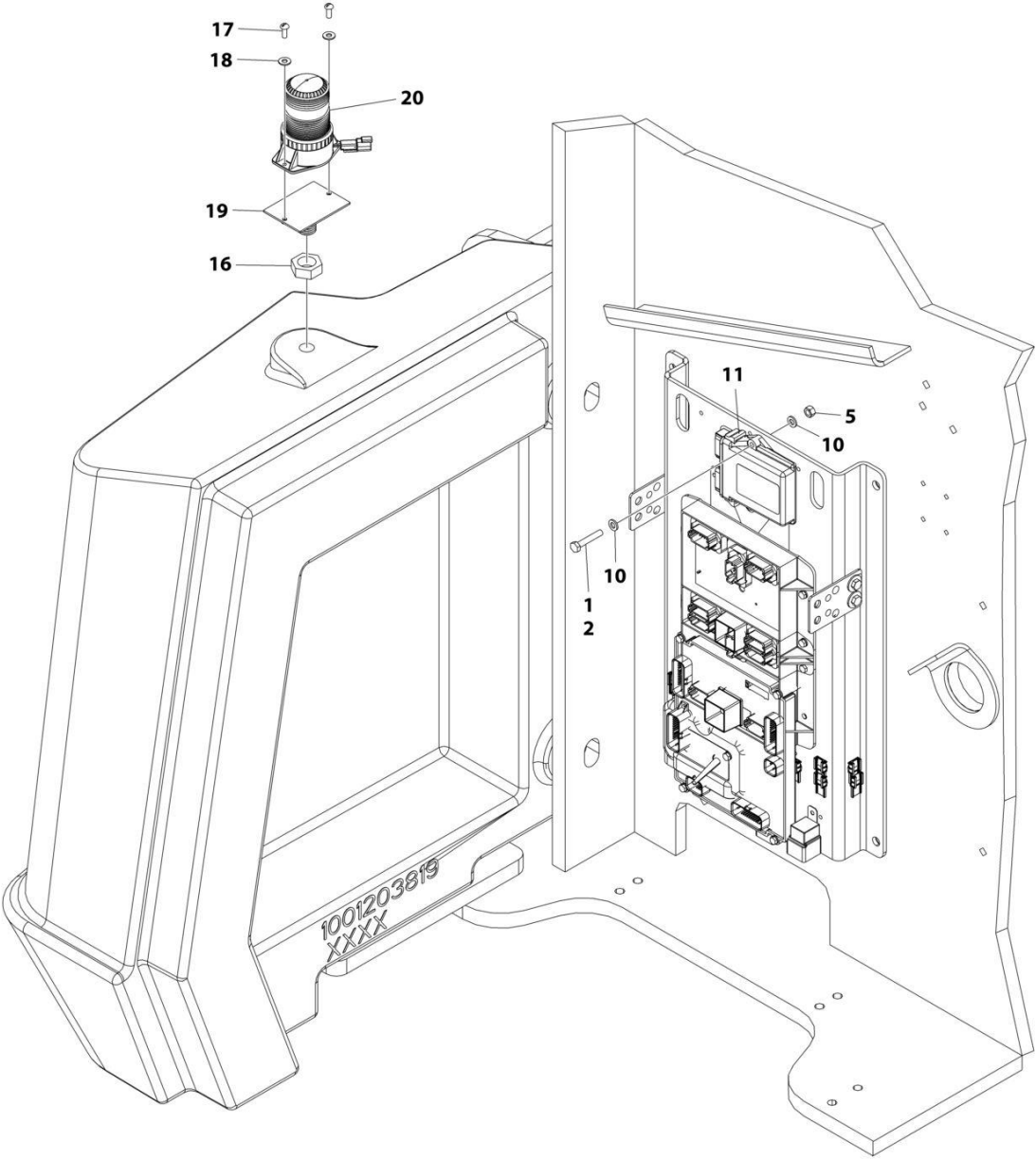
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FIGURE 2-21. STROBE LIGHT INSTALLATION - AMBER (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151701	Ref	STROBE LIGHT INSTALLATION - AMBER (OPTIONAL)	A
1	0760410	2	Bolt M4 x 20	
2	2920161	1	Light, Strobe	
2	7016319	1	Bulb	
2	7016372	1	Lens	
2	4460891	1	Plug, Male - 2 Position	
2	4460465	2	Socket, Female	
3	3290405	2	Nut M4	
4	4060865	1	Guard, Strobe	
5	1001091102	2	Washer M4	

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FIGURE 2-22. STROBE LIGHT INSTALLATION - BLUE (OPTIONAL)



ART_1001196776

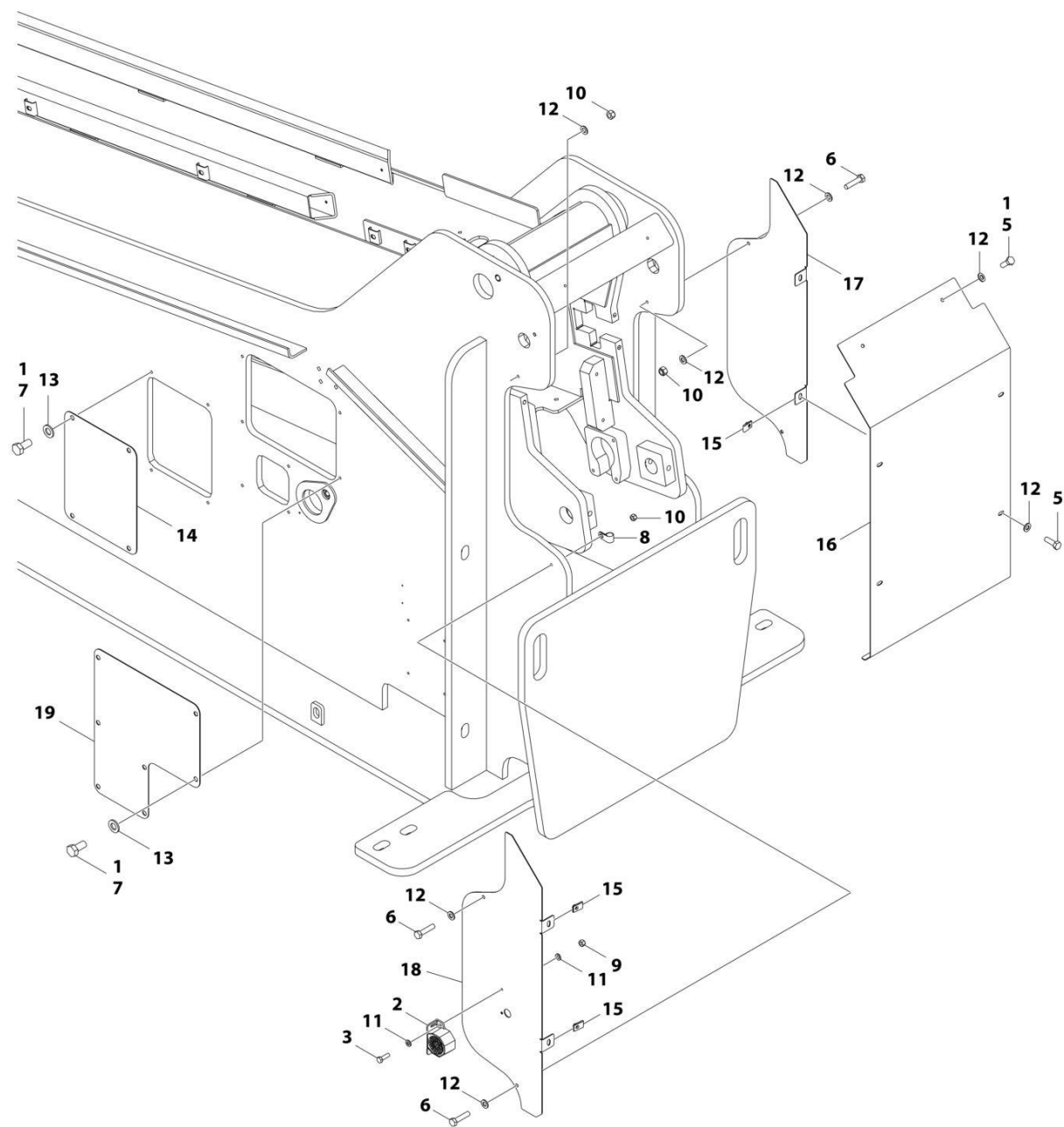
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FIGURE 2-22. STROBE LIGHT INSTALLATION - BLUE (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196776	Ref	STROBE LIGHT INSTALLATION - BLUE	C
1	0100011	AR	Compound, Locking	
2	0700615	2	Bolt M6 x 35	
5	3290607	2	Nut M6	
8	4240033	1	Tie-Strap (Not Shown)	
10	4811700	4	Washer M6	
11	1001142683	1	Module, Beacon	
14	1001142736	1	Strobe Light Harness (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
16	3312602	1	Nut 1	
17	3900085	2	Screw #10 x 1/2	
18	4751000	2	Washer #10	
19	1001149994	1	Mount	
20	1001200910	1	Strobe Light Harness Assembly	
20	4460897	1	Connector - 2 Position	
20	4460464	2	Pin, Male	

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FIGURE 2-23. ALARM AND TURNTABLE COVERS INSTALLATION



ART_1001151213

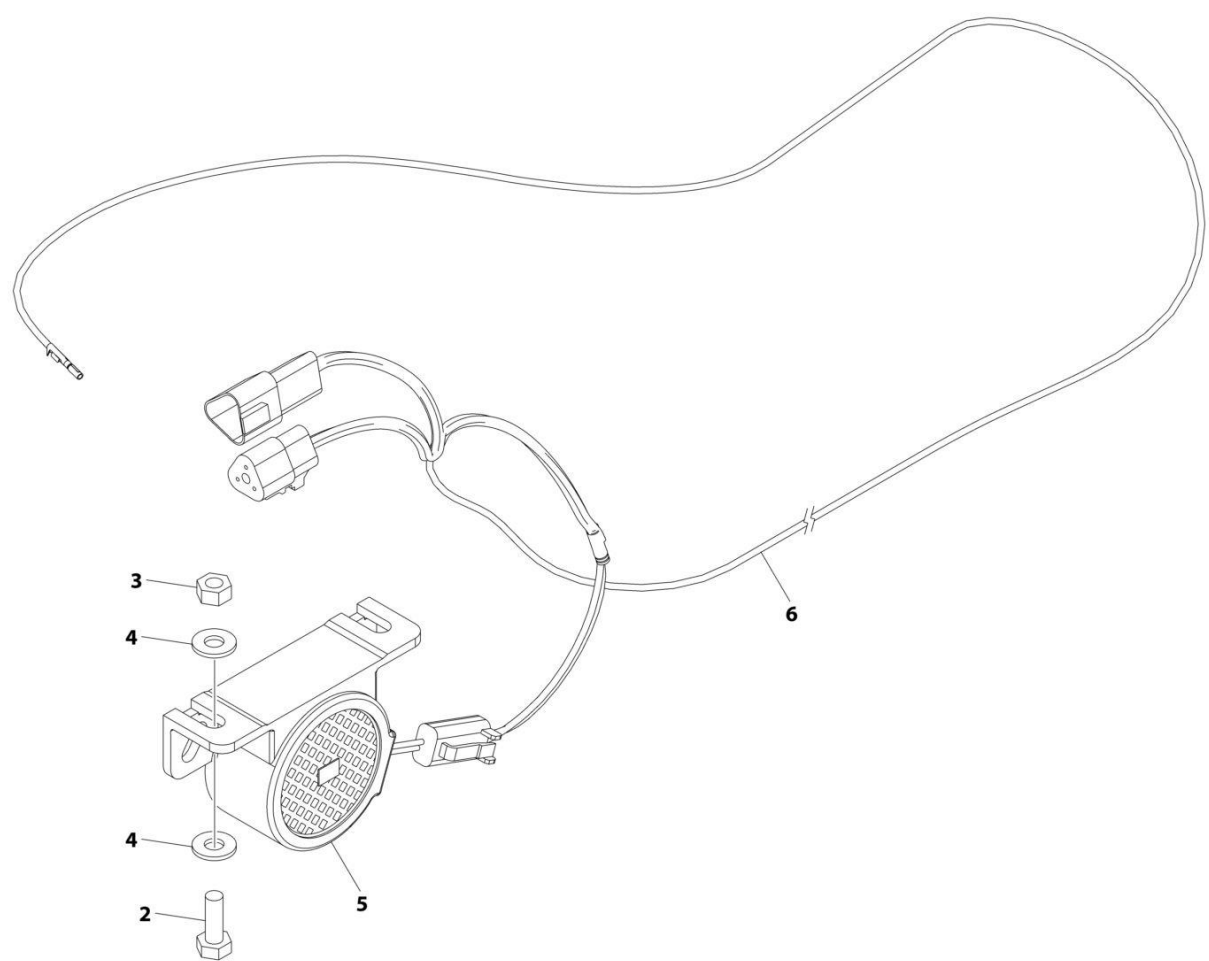
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FIGURE 2-23. ALARM AND TURNTABLE COVERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151213	Ref	ALARM AND TURNTABLE COVERS INSTALLATION	F
1	0100011	AR	Compound, Locking	
2	0140043	1	Alarm	
3	0760610	2	Bolt M6 x 20	
5	0760812	6	Bolt M8 x 25	
6	0760815	4	Bolt M8 x 35	
7	0761212	AR	Bolt M12 x 25	
8	1320061	1	Clamp	
9	3290605	2	Nut M6	
10	3290805	4	Nut M8	
11	4811700	4	Washer M6	
12	4811900	13	Washer M8	
13	4812100	AR	Washer M12	
14	1001148768	1	Cover	
15	1001149160	4	Nut, Tinnerman M8	
16	1001151221	1	Cover (End)	
17	1001151222	1	Cover (LH)	
18	1001151223	1	Cover (RH)	
19	1001218733	1	Cover	

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FIGURE 2-24. WHITE NOISE ALARM INSTALLATION



ART_1001263172

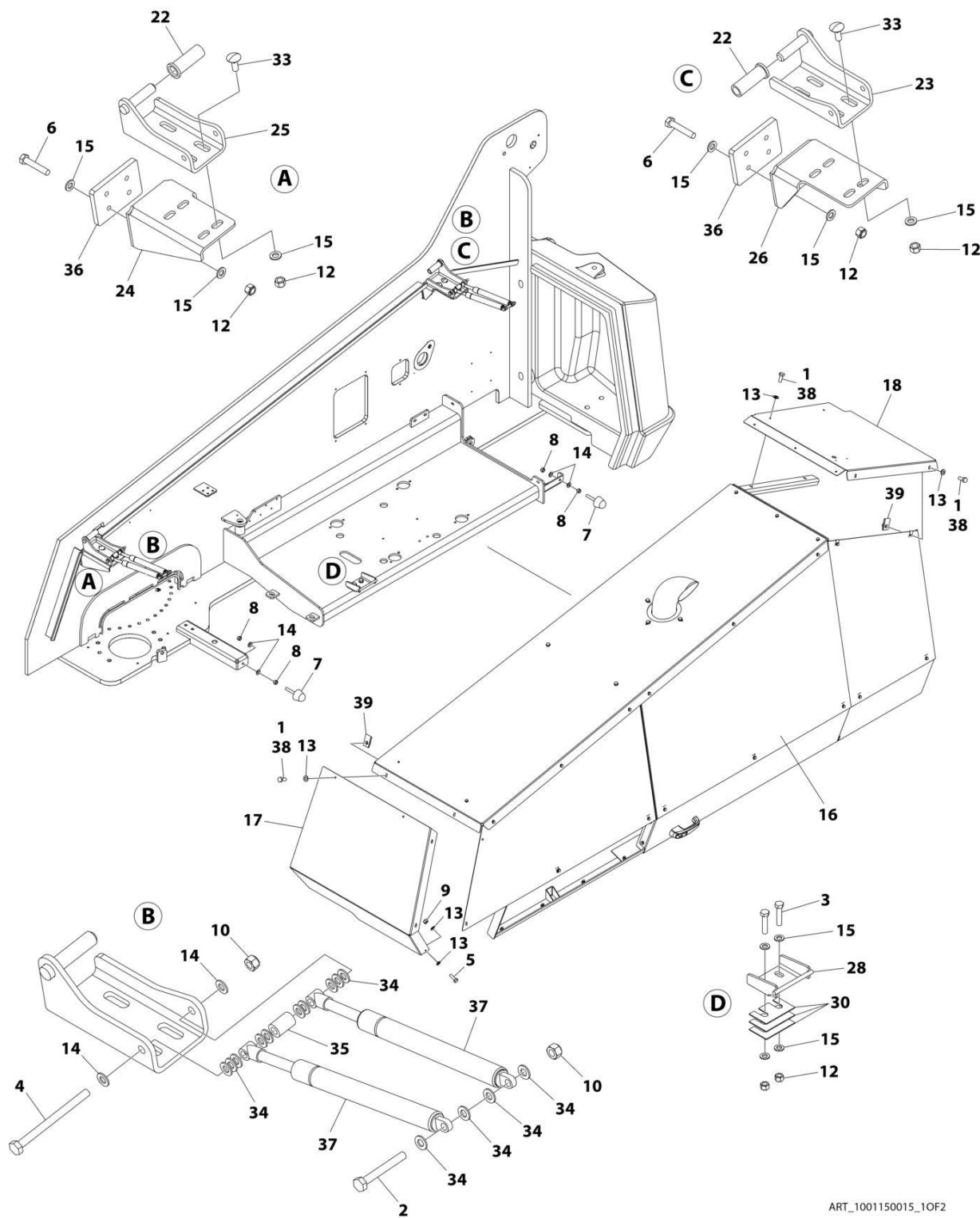
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FIGURE 2-24. WHITE NOISE ALARM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001263172	Ref	WHITE NOISE ALARM INSTALLATION	B
1	0100048	AR	Compound, Silicone (Not Shown)	
2	0641406	2	Bolt 1/4 x 3/4	
3	3311405	2	Nut 1/4	
4	4711400	4	Washer 1/4	
5	1001184682	1	Alarm	
6	1001243682	1	White Noise Motion Alarm Harness (See Separate Breakdown in ELECTRICAL Section)	

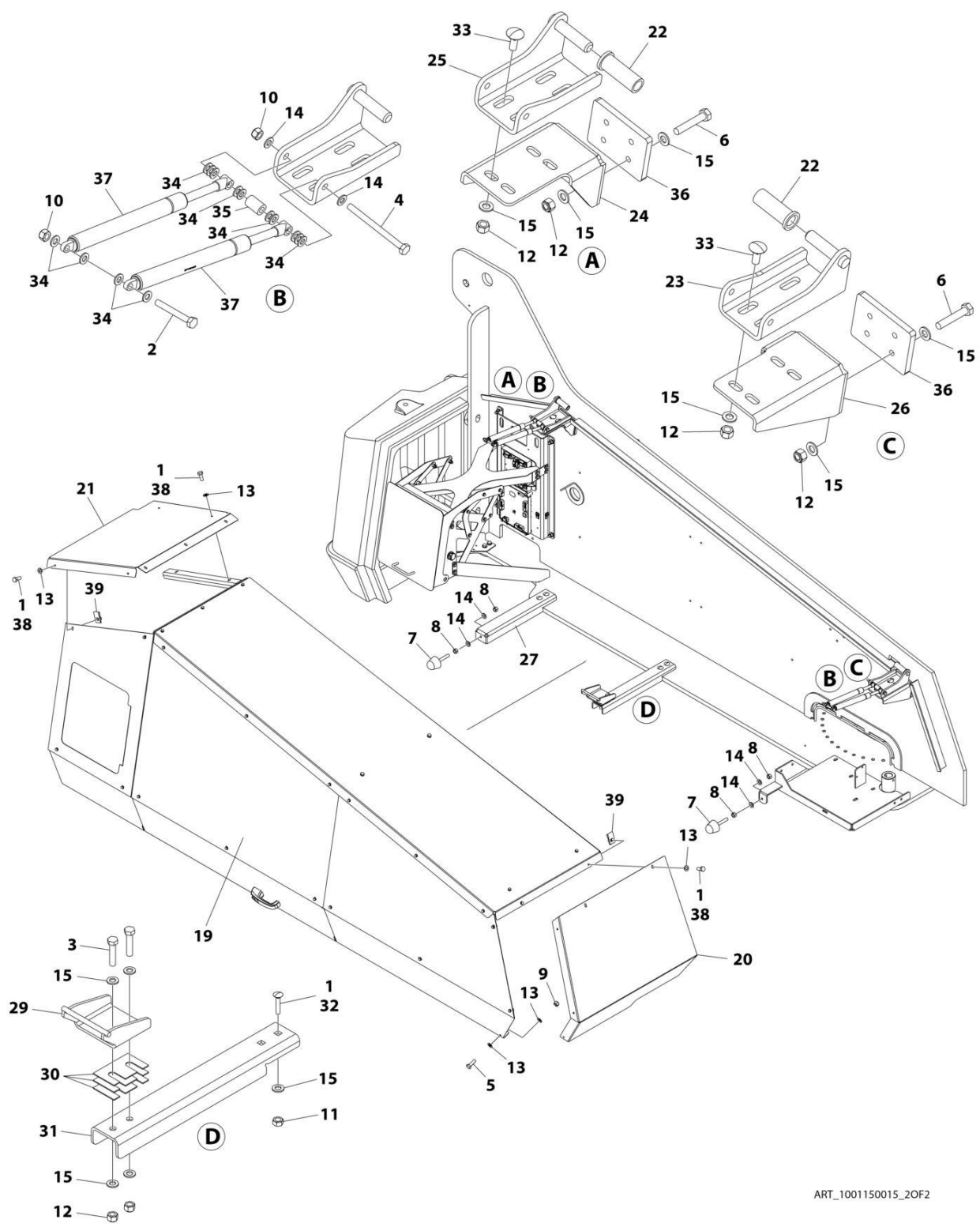
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FIGURE 2-25. HOOD INSTALLATION - DEUTZ TD2011 ENGINE



ART_1001150015_10F2

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ART_1001150015_2OF2

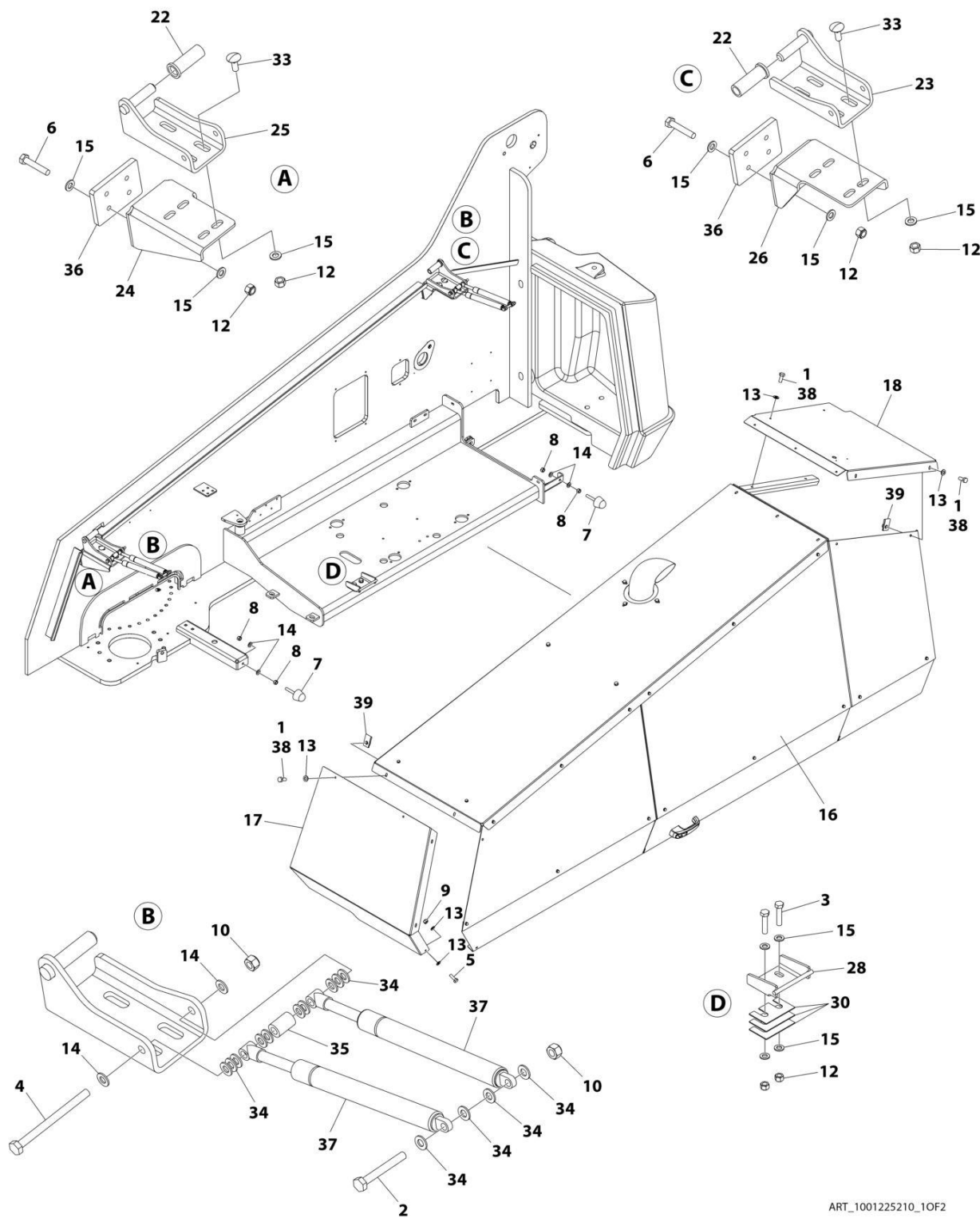
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FIGURE 2-25. HOOD INSTALLATION - DEUTZ TD2011 ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150015	Ref	HOOD INSTALLATION - DEUTZ TD2011 ENGINE	D
1	0100011	AR	Compound, Locking	
2	0701024	4	Bolt M10 x 80	
3	0701219	4	Bolt M12 x 55	
4	0711030	4	Bolt M10 x 130	
5	0760812	2	Bolt M8 x 25	
6	0761221	16	Bolt M12 x 65	
7	0940071	4	Bumper	
8	3271601	8	Nut 3/8	
9	3290805	2	Nut M8	
10	3291005	8	Nut M10	
11	3291201	4	Nut M12	
12	3291205	36	Nut M12	
13	4811900	24	Washer M8	
14	4812000	16	Washer M10	
15	4812100	60	Washer M12	
16	1001149075	1	Hood Assembly - Engine Side (See Separate Breakdown in this Section)	
17	1001149082	1	Panel, Hood	
18	1001149083	1	Panel, Hood	
19	1001149085	1	Hood Assembly - Tank Side (See Separate Breakdown in this Section)	
20	1001149092	1	Panel, Hood	
21	1001149093	1	Panel, Hood	
22	1001149095	4	Bearing	
23	1001149096	2	Hinge (RH)	
24	1001149098	2	Bracket	
25	1001149099	2	Hinge (LH)	
26	1001149101	2	Bracket	
27	1001153028	1	Bracket	
28	1001153029	1	Bracket, Latch (Engine Side)	
29	1001153030	1	Bracket, Latch (Tank Side)	
30	1001153034	6	Plate, Spacer	
31	1001153035	1	Bracket	
32	1001153086	4	Bolt M12 x 70	
33	1001153162	16	Bolt M12 x 35	
34	1001153195	58	Washer M10	
35	1001153198	4	Spacer	
36	1001153199	4	Plate, Spacer	
37	1001151912	8	Spring, Gas	
38	0760810	20	Bolt M8 x 20	
39	1001149160	16	Nut, Tinnerman M8	

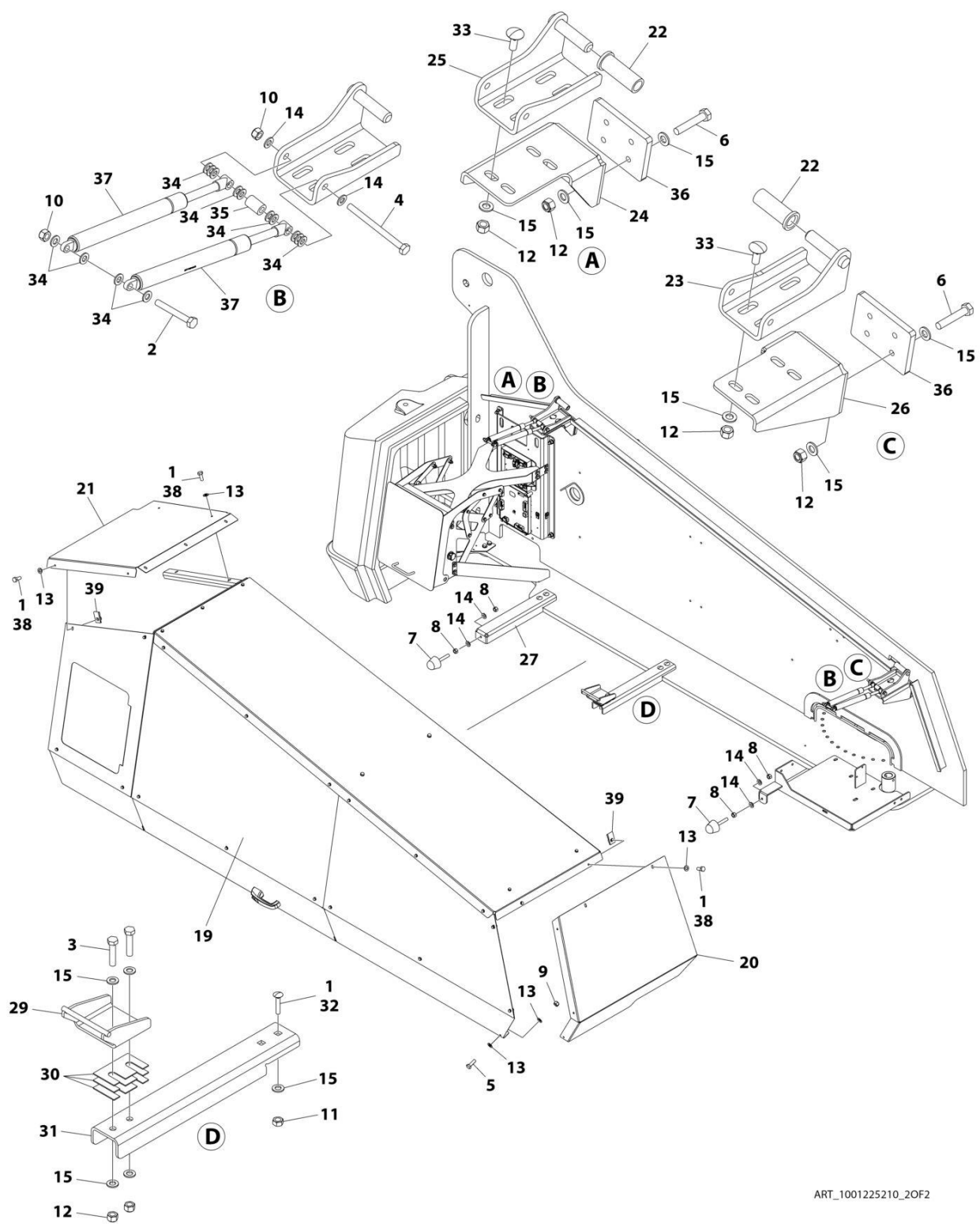
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FIGURE 2-26. HOOD INSTALLATION - DEUTZ TD2.9L4 ENGINE



ART_1001225210_10F2

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ART_1001225210_20F2

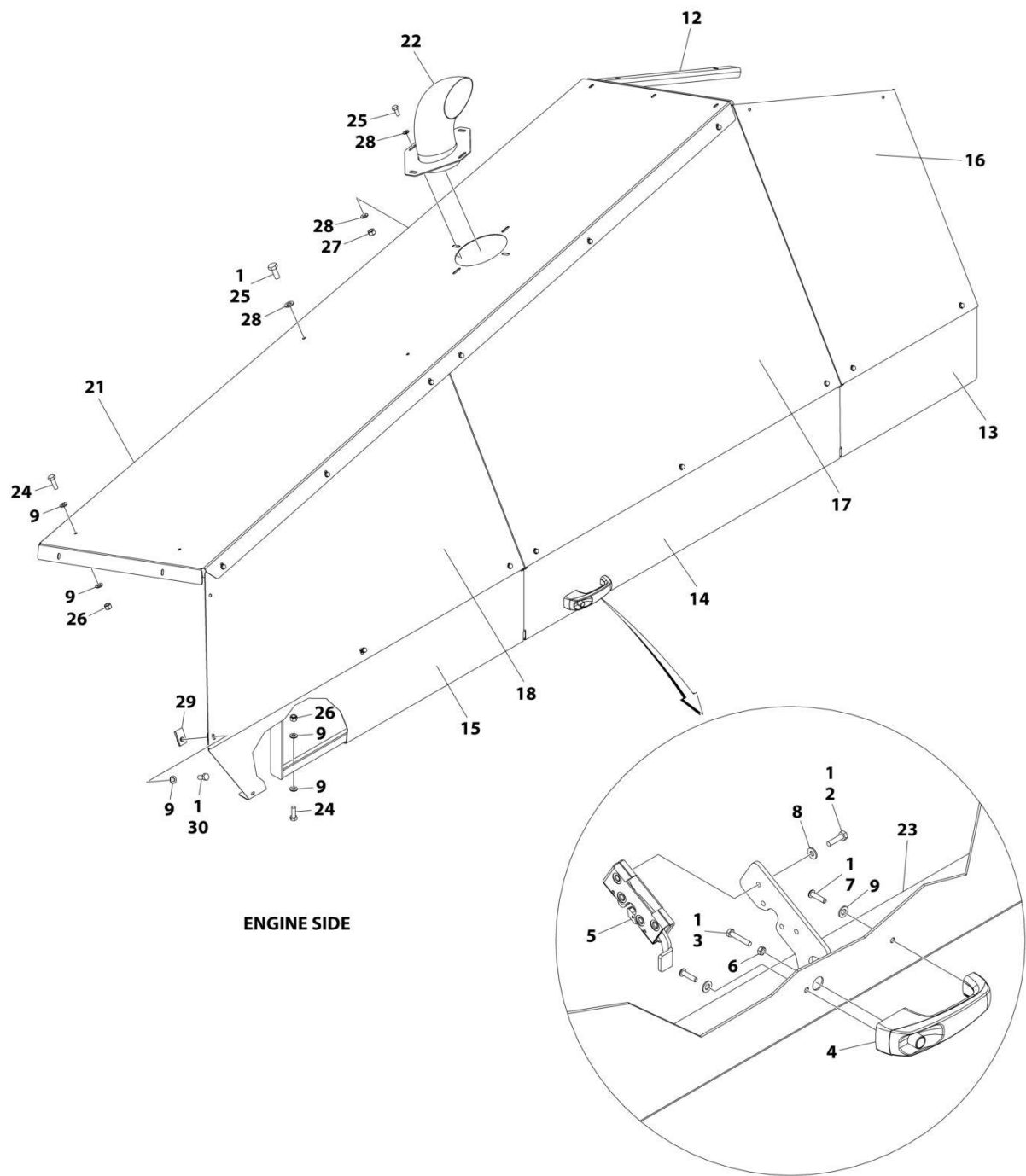
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FIGURE 2-26. HOOD INSTALLATION - DEUTZ TD2.9L4 ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225210	Ref	HOOD INSTALLATION – DEUTZ TD2.9L4 ENGINE	A
1	0100011	AR	Compound, Locking	
2	0701024	4	Bolt M10 x 80	
3	0701219	4	Bolt M12 x 55	
4	0711030	4	Bolt M10 x 130	
5	0760812	2	Bolt M8 x 25	
6	0761221	16	Bolt M12 x 65	
7	0940071	4	Bumper	
8	3271601	8	Nut 3/8	
9	3290805	2	Nut M8	
10	3291005	8	Nut M10	
11	3291201	4	Nut M12	
12	3291205	36	Nut M12	
13	4811900	24	Washer M8	
14	4812000	16	Washer M10	
15	4812100	60	Washer M12	
16	1001225211	1	Hood Assembly - Engine Side (See Separate Breakdown in this Section)	
17	1001149082	1	Panel, Hood	
18	1001149083	1	Panel, Hood	
19	1001149085	1	Hood Assembly - Tank Side (See Separate Breakdown in this Section)	
20	1001149092	1	Panel, Hood	
21	1001149093	1	Panel, Hood	
22	1001149095	4	Bearing	
23	1001149096	2	Hinge (RH)	
24	1001149098	2	Bracket	
25	1001149099	2	Hinge (LH)	
26	1001149101	2	Bracket	
27	1001153028	1	Bracket	
28	1001153029	1	Bracket, Latch (Engine Side)	
29	1001153030	1	Bracket, Latch (Tank Side)	
30	1001153034	6	Plate, Spacer	
31	1001153035	1	Bracket	
32	1001153086	4	Bolt M12 x 70	
33	1001153162	16	Bolt M12 x 35	
34	1001153195	58	Washer M10	
35	1001153198	4	Spacer	
36	1001153199	4	Plate, Spacer	
37	1001151912	8	Spring, Gas	
38	0760810	20	Bolt M8 x 20	
39	1001149160	16	Nut, Tinnerman M8	

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FIGURE 2-27. HOOD ASSEMBLY - ENGINE SIDE (DEUTZ TD2011 ENGINE)



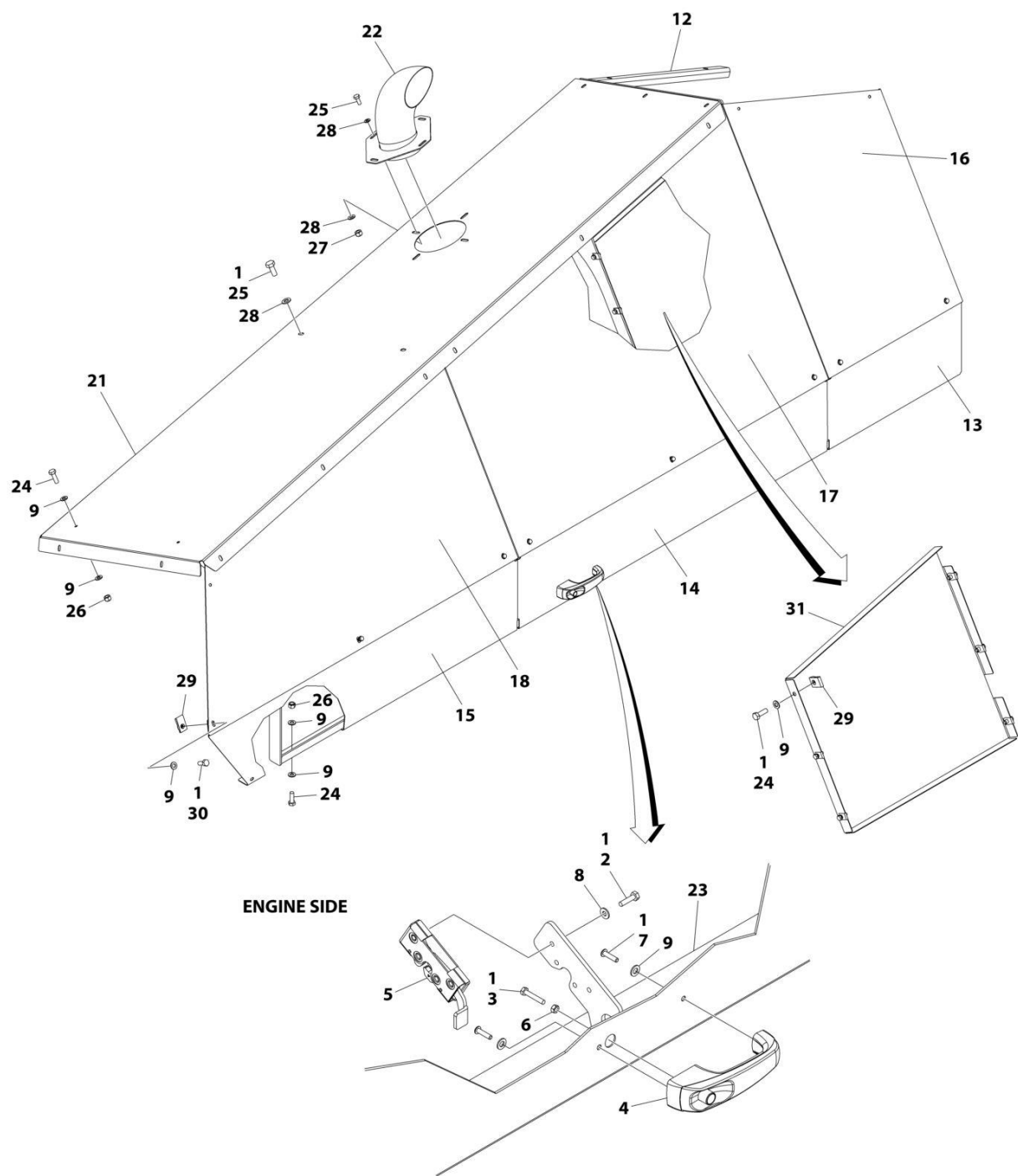
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FIGURE 2-27. HOOD ASSEMBLY - ENGINE SIDE (DEUTZ TD2011 ENGINE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149075	Ref	HOOD ASSEMBLY - ENGINE SIDE (DEUTZ TD2011 ENGINE)	C
1	0100011	AR	Compound, Locking	
2	0641408	4	Bolt 1/4 x 1	
3	0700615	1	Bolt M6 x 35	
4	2560187	1	Handle	
5	2940173	1	Latch, Rotary	
6	3290601	1	Nut M6	
7	3900363	2	Screw M6 x 25	
8	4711400	4	Washer 1/4	
9	4811900	60	Washer M8	
12	1001149061	1	Frame, Hood	
13	1001149076	1	Panel - Front Lower Side	
14	1001149077	1	Panel - Middle Lower Side	
15	1001149078	1	Panel - Rear Lower Side	
16	1001149079	1	Panel - Front Middle Upper Side	
17	1001149080	1	Panel - Middle Upper Side	
18	1001149081	1	Panel - Rear Upper Side	
21	1001149084	1	Panel, Top	
22	1001151226	1	Stack, Exhaust	
23	1001151229	1	Seal	
24	0760812	22	Bolt M8 x 25	
25	0761012	6	Bolt M10 x 25	
26	3290805	22	Nut M8	
27	3291005	4	Nut M10	
28	4812000	10	Washer M10	
29	1001149160	14	Nut, Tinnerman M8	
30	0760810	14	Bolt M8 x 20	

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FIGURE 2-28. HOOD ASSEMBLY - ENGINE SIDE (DEUTZ TD2.9L4 ENGINE)



ART_1001225211

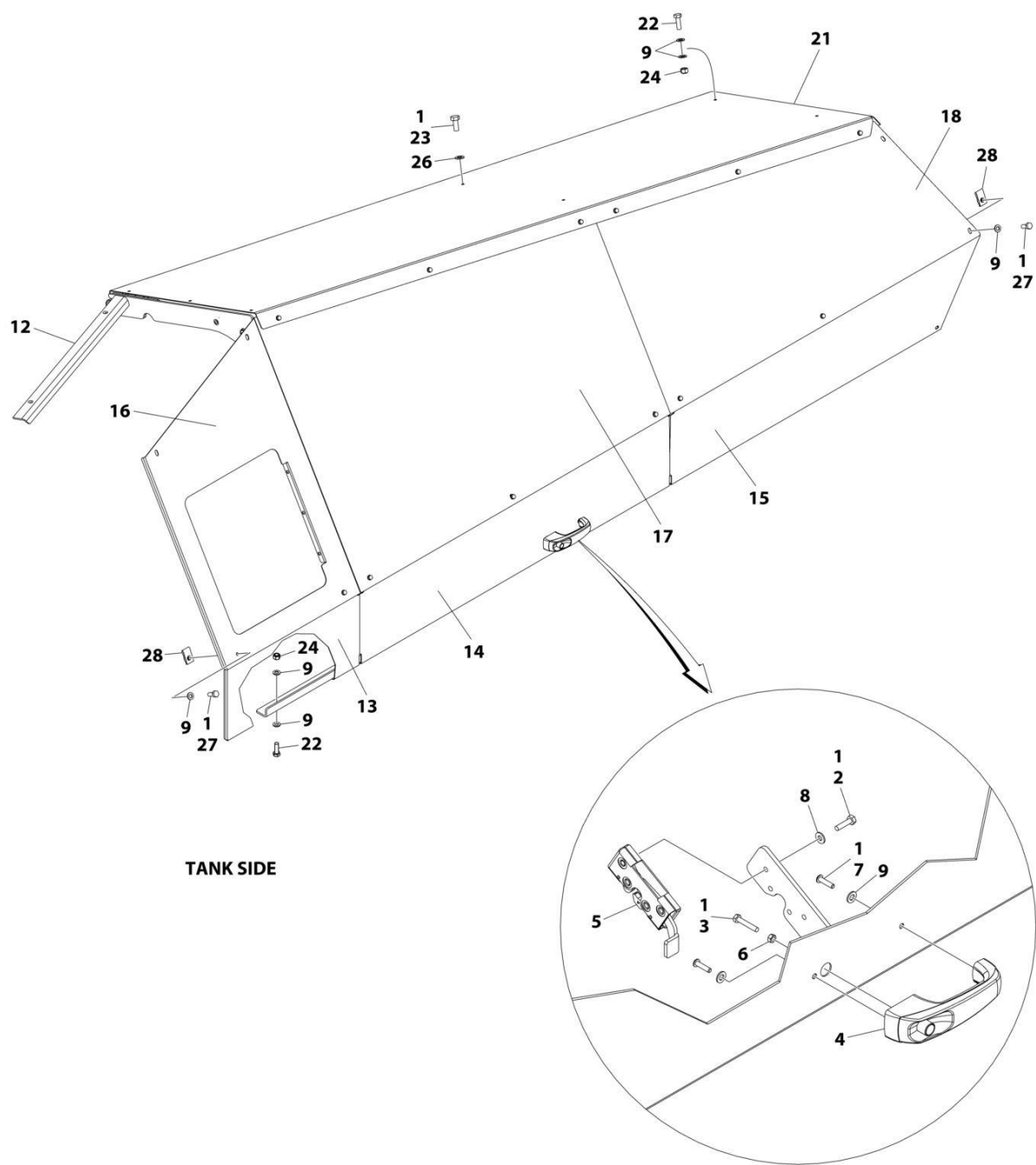
SECTION 2 - TURNTABLE

FIGURE 2-28. HOOD ASSEMBLY - ENGINE SIDE (DEUTZ TD2.9L4 ENGINE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225211	Ref	HOOD ASSEMBLY - ENGINE SIDE (DEUTZ TD2.9L4 ENGINE)	B
1	0100011	AR	Compound, Locking	
2	0641408	4	Bolt 1/4 x 1	
3	0700615	1	Bolt M6 x 35	
4	2560187	1	Handle	
5	2940173	1	Latch, Rotary	
6	3290601	1	Nut M6	
7	3900363	2	Screw M6 x 25	
8	4711400	4	Washer 1/4	
9	4811900	AR	Washer M8	
12	1001149061	1	Frame, Hood	
13	1001149076	1	Panel - Front Lower Side	
14	1001149077	1	Panel - Middle Lower Side	
15	1001149078	1	Panel - Rear Lower Side	
16	1001149079	1	Panel - Front Middle Upper Side	
17	1001149080	1	Panel - Middle Upper Side	
18	1001149081	1	Panel - Rear Upper Side	
21	1001225244	1	Panel, Top	
22	1001151226	1	Stack, Exhaust	
23	1001151229	1	Seal	
24	0760812	AR	Bolt M8 x 25	
25	0761012	6	Bolt M10 x 25	
26	3290805	22	Nut M8	
27	3291005	4	Nut M10	
28	4812000	10	Washer M10	
29	1001149160	AR	Nut, Tinnerman M8	
30	0760810	14	Bolt M8 x 20	
31	1001232358	1	Shield	

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FIGURE 2-29. HOOD ASSEMBLY - TANK SIDE



ART_1001149085

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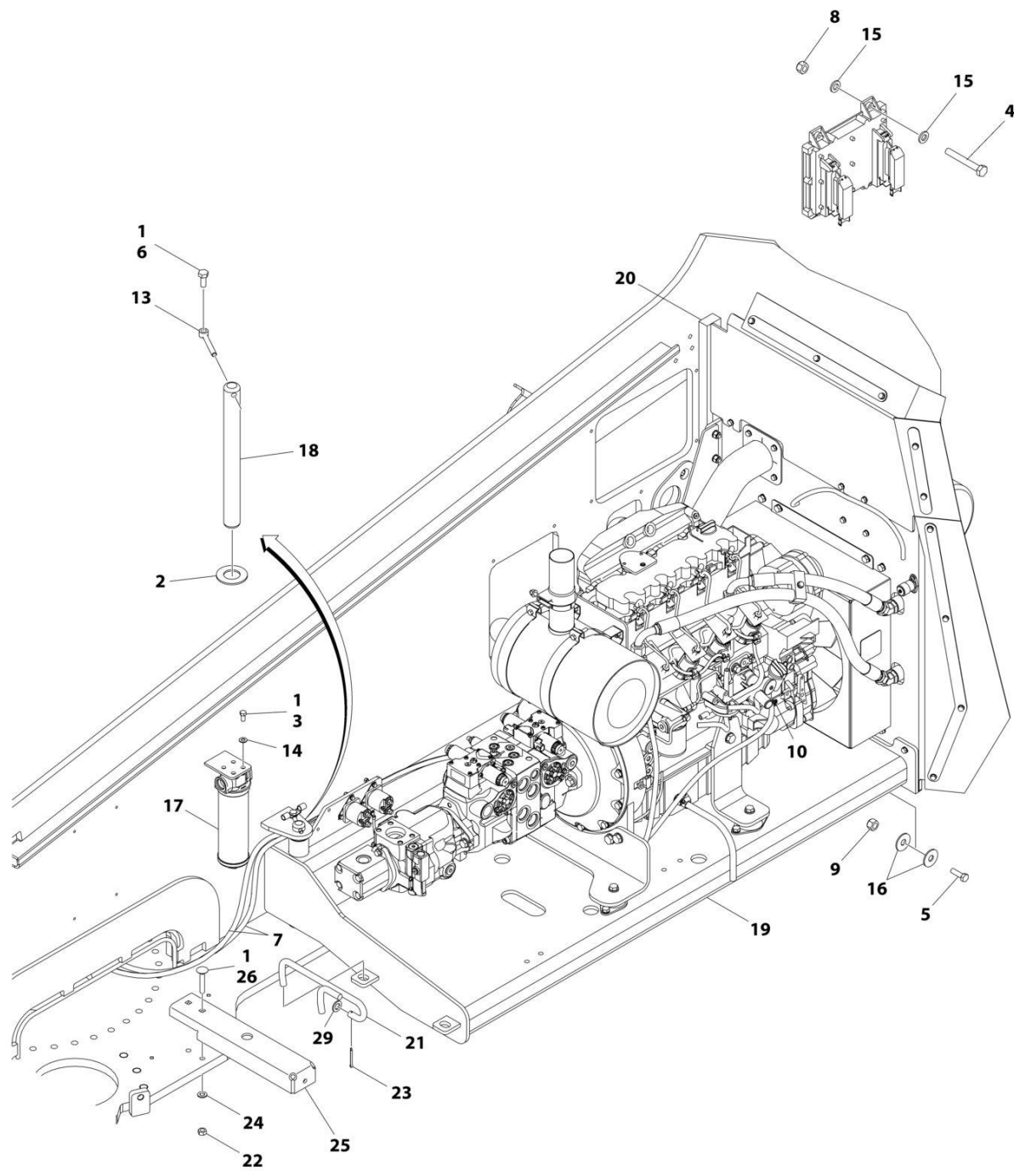
FIGURE 2-29. HOOD ASSEMBLY - TANK SIDE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149085	Ref	HOOD ASSEMBLY - TANK SIDE	F
1	0100011	AR	Compound, Locking	
2	0641408	4	Bolt 1/4 x 1	
3	0700615	1	Bolt M6 x 35	
4	2560187	1	Handle	
5	2940173	1	Latch, Rotary	
6	3290601	1	Nut M6	
7	3900363	2	Screw M6 x 25	
8	4711400	4	Washer 1/4	
9	4811900	60	Washer M8	
12	1001149062	1	Frame, Hood	
13	1001149086	1	Panel - Front Lower Side	
14	1001149087	1	Panel - Middle Lower Side	
15	1001149088	1	Panel - Rear Lower Side	
16	1001149089	1	Panel - Front Upper Side	
17	1001149090	1	Panel - Middle Upper Side	
18	1001149091	1	Panel - Rear Upper Side	
21	1001149094	1	Panel - Top	
22	0760812	22	Bolt M8 x 25	
23	0761012	2	Bolt M10 x 25	
24	3290805	22	Nut M8	
26	4812000	2	Washer M10	
29	1001149160	14	Nut, Tinnerman M8	
30	0760810	14	Bolt M8 x 20	

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FIGURE 3-1. DEUTZ TD2011 ENGINE INSTALLATION



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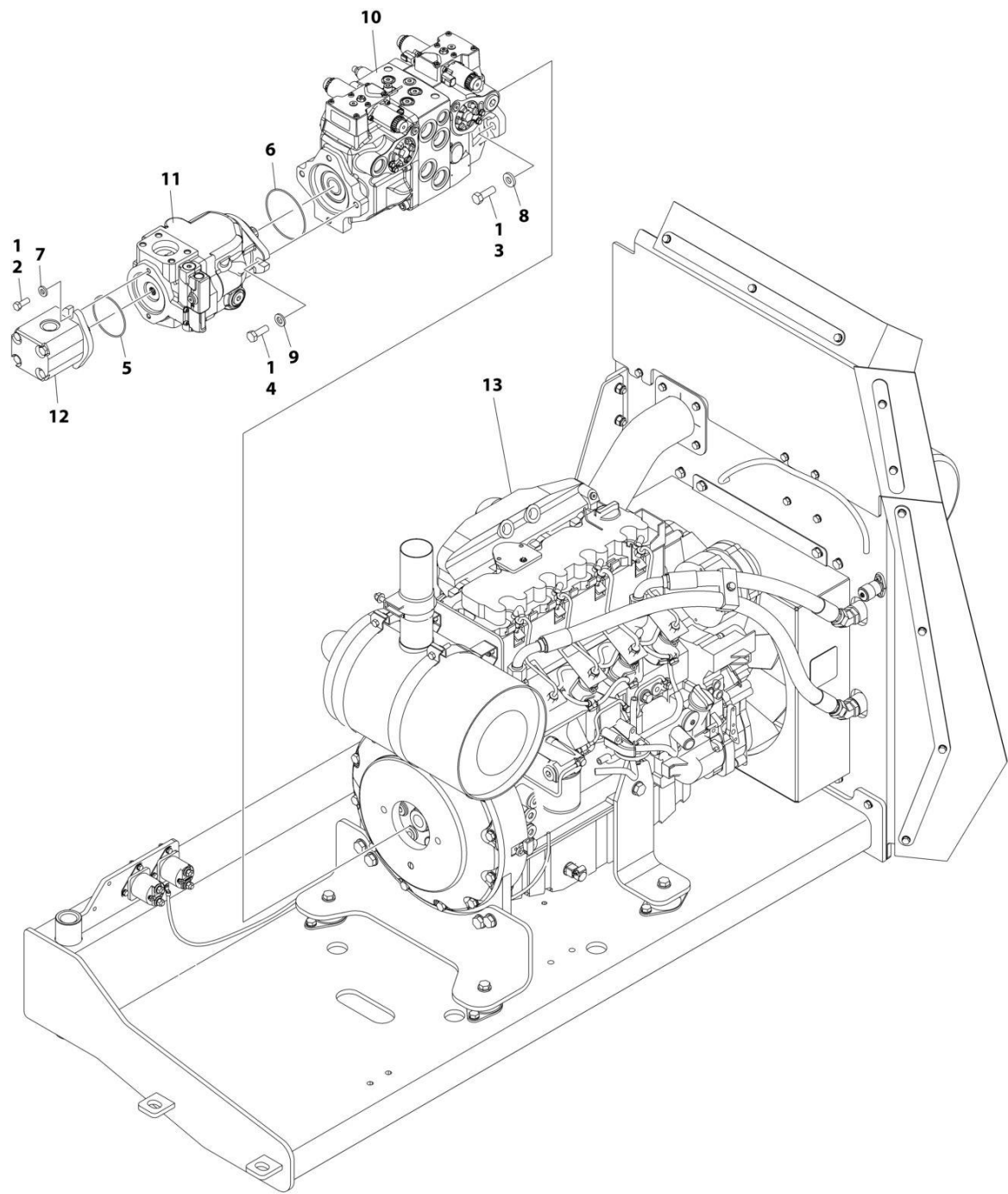
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FIGURE 3-1. DEUTZ TD2011 ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150013	Ref	DEUTZ TD2011 ENGINE INSTALLATION	I
1	0100011	AR	Compound, Locking	
2	0440162	1	Bearing	
3	0641606	4	Bolt 3/8 x 3/4	
4	0700617	4	Bolt M6 x 45	
5	0701216	1	Bolt M12 x 40	
6	0761012	1	Bolt M10 x 25	
7	2720058	33 ft/10m	Hose	
8	3290605	4	Nut M6	
9	3291205	1	Nut M12	
10	1001174486	4	Clamp	
13	3841143	1	Keeper, Pin	
14	4711600	4	Washer 3/8	
15	4811700	8	Washer M6	
16	4812102	2	Washer M12	
17	1001108617	1	Filter, Hydraulic	
17	70002231	1	Element, Filter	
18	1001135196	1	Pin	
19	1001151129	1	Deutz TD2011 Engine and Pumps Sub-Assembly (See Separate Breakdown in this Section)	
20	1001153046	1	Seal	
21	1001153083	1	Hook	
22	3291201	2	Nut M12	
23	3391210	1	Pin, Split	
24	4812100	2	Washer M12	
25	1001153027	1	Bracket	
26	1001153086	2	Bolt M12 x 70	
27	1001150443	1	Battery Cable Kit - Deutz TD2011 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
28	1001119470	1	Engine Harness - Deutz TD2011 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
29	4812300	1	Washer M16	

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FIGURE 3-2. DEUTZ TD2011 ENGINE AND PUMPS SUB-ASSEMBLY



ART_1001151129

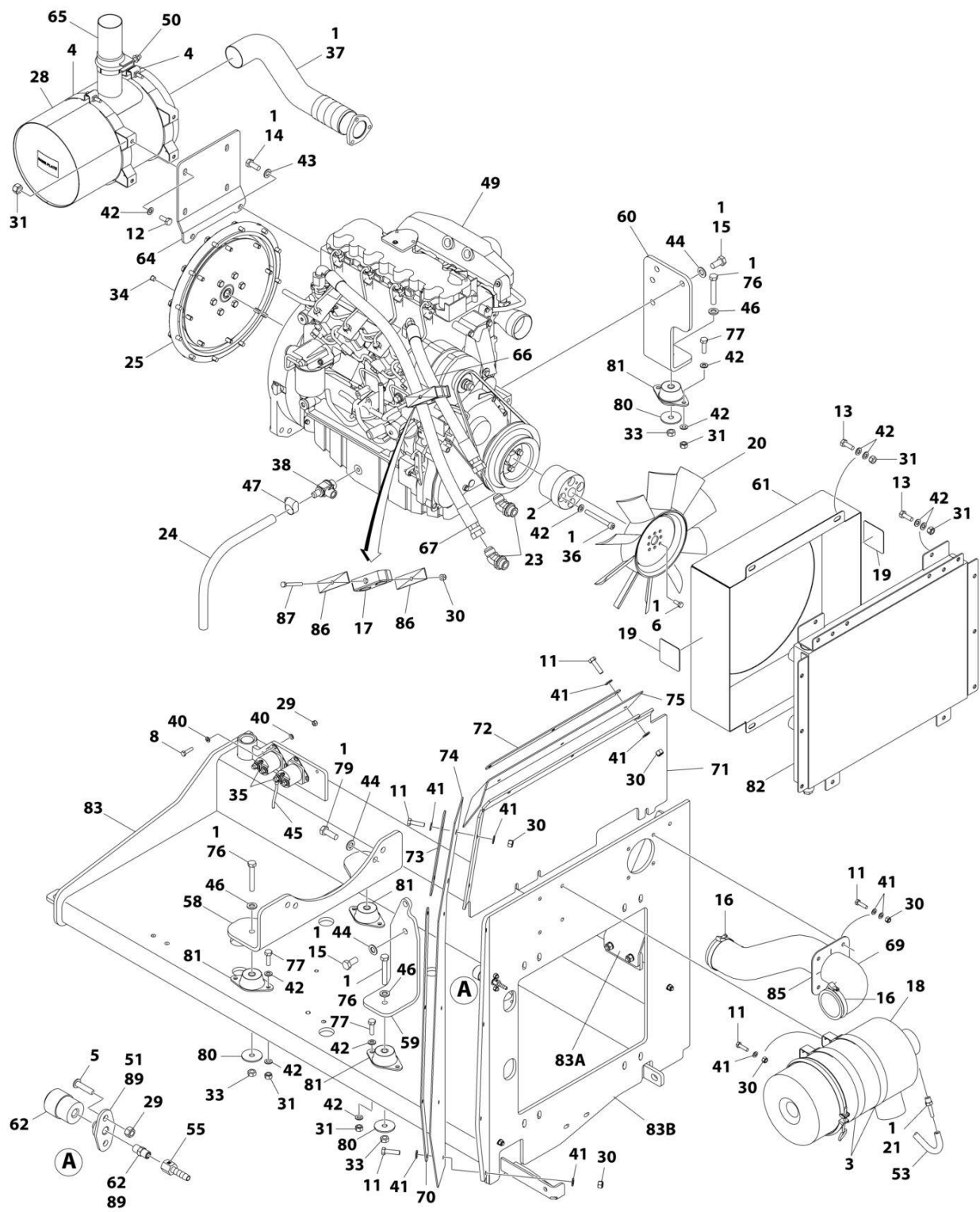
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FIGURE 3-2. DEUTZ TD2011 ENGINE AND PUMPS SUB-ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151129	Ref	DEUTZ TD2011 ENGINE AND PUMPS SUB-ASSEMBLY	F
1	0100011	AR	Compound, Locking	
2	0641608	2	Bolt 3/8 x 1	
3	0641812	2	Bolt 1/2 x 1-1/2	
4	0761215	2	Bolt M12 x 35	
5	3790152	1	O-Ring	
6	3790155	1	O-Ring	
7	4891600	2	Washer 3/8	
8	4891800	2	Washer 1/2	
9	5241200	2	Washer M12	
10	1001108616	1	Tandem Pump Assembly (See Separate Breakdown in this Section)	
11	1001171095	1	Piston Pump Assembly (See Separate Breakdown in this Section)	
12	1001112927	1	Gear Pump Assembly (See Separate Breakdown in this Section)	
13	1001151128	1	Deutz TD2011 Engine Assembly (See Separate Breakdown in this Section)	

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FIGURE 3-3. DEUTZ TD2011 ENGINE ASSEMBLY



ART_1001151128_N

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FIGURE 3-3. DEUTZ TD2011 ENGINE ASSEMBLY

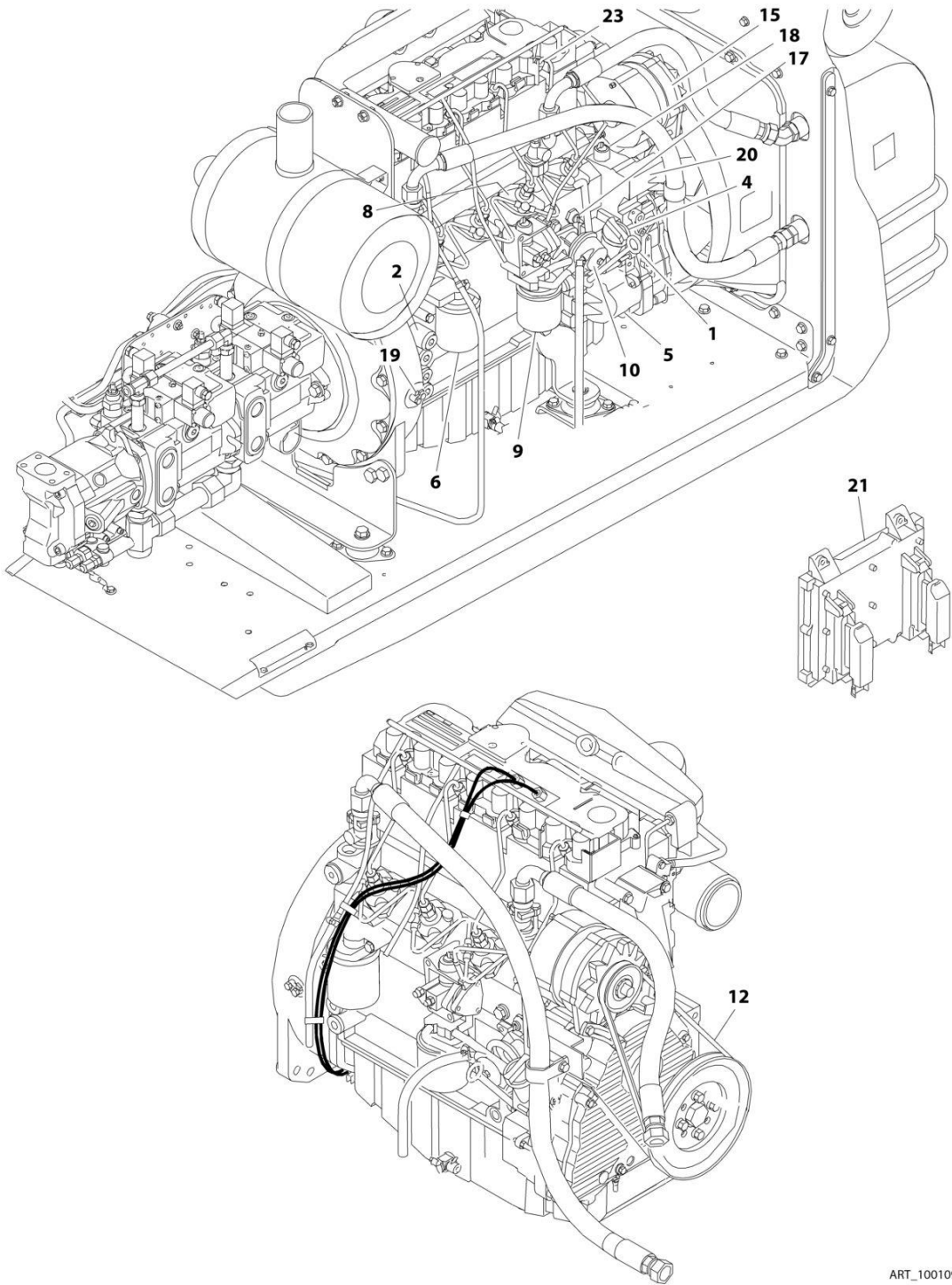
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151128	Ref	DEUTZ TD2011 ENGINE ASSEMBLY	N
1	0100011	AR	Compound, Locking	
2	0080237	1	Spacer, Fan	
3	0340003	2	Band, Air Cleaner	
4	0340051	2	Band, Muffler	
5	3900363	2	Screw M6 x 25	
6	0641506	4	Bolt 5/16 x 3/4	
8	0760612	4	Bolt M6 x 25	
11	0760814	18	Bolt M8 x 30	
12	0761012	4	Bolt M10 x 25	
13	0761014	8	Bolt M10 x 30	
14	0761214	2	Bolt M12 x 30	
15	0771414	6	Bolt M14 x 30	
16	1320058	2	Clamp	
17	8750024	1	Clamp	
18	1001204509	1	Air Cleaner Assembly	
18	7003655	1	Element, Air Cleaner	
18	7015014	1	Clamp	
18	7015015	1	Cap, End	
19	1703162	2	Decal - Fan Blade	
20	2060025	1	Fan	
21	2220315	1	Fitting, Straight Barbed	
23	2220498	2	Fitting, 45 JIC/ORB	
24	2750532	9 in/22cm	Hose	
25	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
28	1001257277	1	Muffler	
29	3290605	6	Nut M6	
30	3290805	19	Nut M8	
31	3291005	20	Nut M10	
33	3331211	4	Nut M12	
34	3520054	1	Plug	
35	3740067	2	Relay	
36	4032022	4	Capscrew M10 x 90	
37	4568293	1	Pipe, Exhaust	
38	4640751	1	Valve, Oil Drain	
40	4811700	8	Washer M6	
41	4811900	32	Washer M8	
42	4812000	40	Washer M10	
43	4812100	2	Washer M12	
44	4812200	10	Washer M14	
45	4923468	1	Glow Plug Harness	
46	5241200	4	Washer M12	
47	8410013	1	Clamp	
49	1001098601	1	Deutz TD2011 Engine Components (See Separate Breakdown in this Section)	
50	1001111116	1	Clamp	
51	1001138173	1	Support	
53	1001138248	22 in /56cm	Tube Nylon	
55	1001141995	1	Fitting, Straight NPT/Barbed	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
58	1001149314	1	Mount Rear Engine	
59	1001149315	1	Mount, Outboard Engine	
60	1001149316	1	Mount, Inboard Engine	
61	1001149530	1	Shroud, Fan	
62	1001149639	1	Indicator, Restriction	
64	1001149744	1	Bracket, Muffler	
65	1001151157	1	Pipe, Exhaust Extension	
66	1001151158	1	Hose, Oil Cooler (Upper)	
67	1001151159	1	Hose, Oil Cooler (Lower)	
69	1001092856	1	Hose, Turbo	
70	1001151320	1	Plate, Clamping	
71	1001152488	1	Baffle	
72	1001152493	1	Plate, Clamping	
73	1001152496	1	Plate, Clamping	
74	1001152497	1	Panel, Rubber	
75	1001152500	1	Panel, Rubber	
76	0711224	4	Bolt M12 x 80	
77	0761015	8	Bolt M10 x 35	
79	0771416	4	Bolt M14 x 40	
80	1001168018	4	Washer	
81	1001191610	4	Mount, Motor	
82	1001196107	1	Radiator	
83	1001196896	1	Tray Assembly	
83A	1001212817	1	Support	
83B	1001196894	1	Plate, Radiator Mounting	
85	1001197477	1	Seal	
86	8750025	2	Cover, Plate	
87	0700824	1	Bolt M8 x 80	
89	0100020	AR	Sealant	

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FIGURE 3-4. DEUTZ TD2011 ENGINE COMPONENTS



ART_1001098601

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FIGURE 3-4. DEUTZ TD2011 ENGINE COMPONENTS

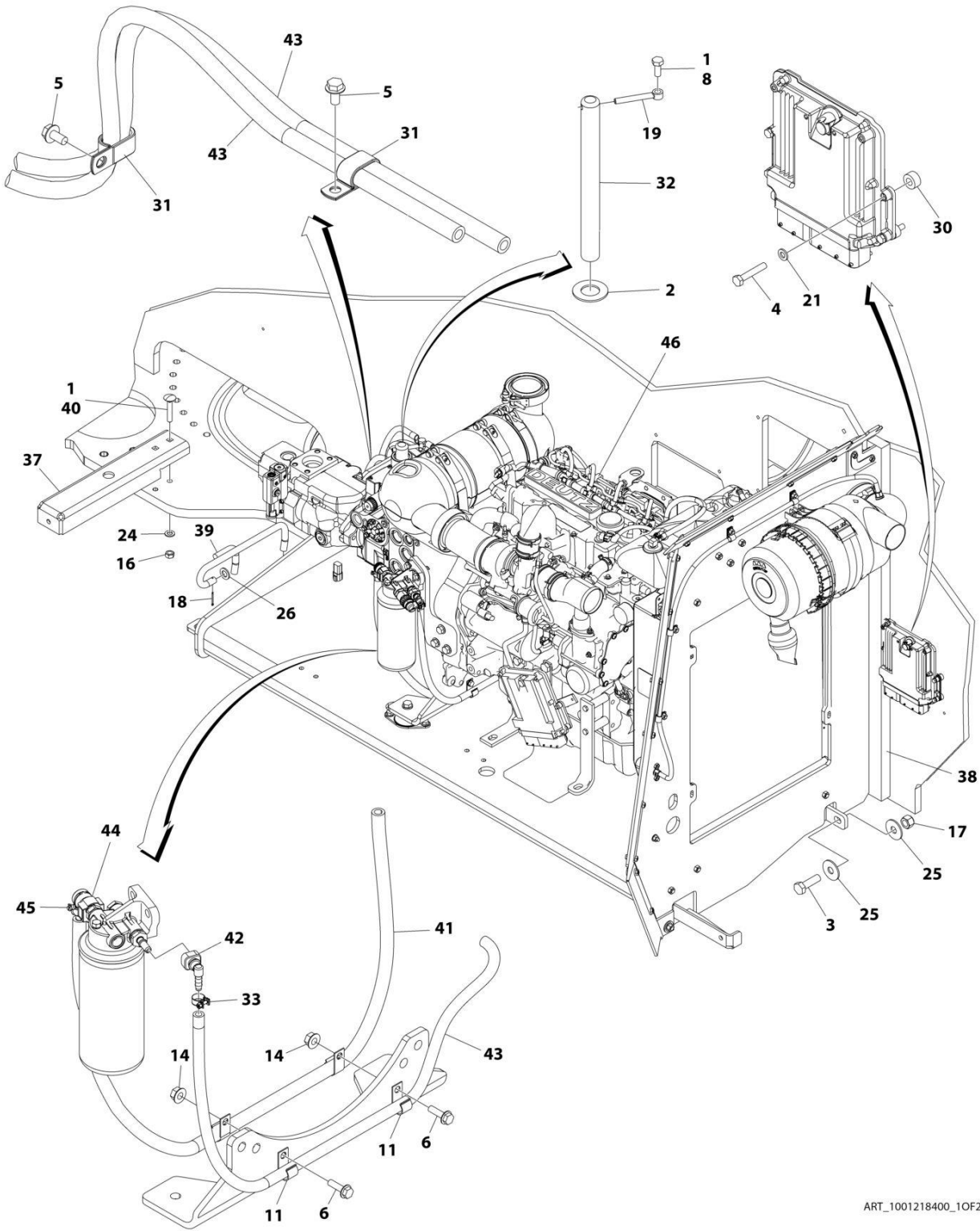
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098601	Ref	DEUTZ TD2011 ENGINE COMPONENTS	C
1	7027235	1	Dipstick	
1	70000044	1	O-Ring	
2	70003475	1	Thermostat	
2	7020460	1	Compression Spring	
3	70001870	1	Flywheel (Not Shown)	
3	7024579	1	Gear, Ring (Not Shown)	
4	7020465	1	Cap, Filler	
5	70001850	1	Pump, Oil	
5	7020468	1	Seal Between Oil Pump and Engine Block (Not Shown)	
6	7016331	1	Filter, Oil	
6	7027236	1	Sender, Temperature (Located near Oil Filter)	
8		Ref	Injector Pump	
8	70001128	AR	"A" Series	
8	70001129	AR	"B" Series	
8	70001130	AR	"C" Series	
8	70001131	AR	"D" Series	
8	7020447	AR	Gasket (1 per Injector)	
9	7016328	1	Filter, Fuel	
10	70000916	1	Pump Fuel Supply	
10	70001435	1	Repair Kit	
10	70000917	1	O-Seal Between Fuel Pump and Engine Block (Not Shown)	
10	70000918	1	Sealing Ring (Not Shown)	
10	70000919	1	Pump, Hand (Not Shown)	
11	7027239	1	Solenoid, Start (Not Shown - Located near Throttle)	
12	7020414	1	V-Belt	
13	7020471	4	Gasket, Exhaust Manifold to Engine Block (Not Shown)	
13	7020486	1	Gasket, Exhaust Manifold to Exhaust Pipe (Not Shown)	
14	7027240	1	Turbocharger (Not Shown)	
14	70001857	1	Flange, Turbocharger (Not Shown)	
14	70001135	1	Gasket (Not Shown)	
15	70001867	1	Alternator	
15	70001868	1	Regulator, Voltage (Not Shown)	
16	7020479	1	Starter (Not Shown - Located on Right Side of Engine)	
16	7026608	1	Relay, Start (Not Shown)	
17	7027790	1	Sensor, Oil Pressure	
18	7027791	1	Sensor, Temperature (Not Shown)	
19	7024565	1	Sensor, Speed	
20	7027792	1	Actuator Throttle	
20	7027276	2	Spring	
21	1600443	1	Module, EMR2 Controller	
22	70002718	1	Seal, Rear Main (Not Shown)	
23	70003135	4	Injector, Fuel	
23	70003136	1	Ring, Sealing	
24	70001847	1	Valve, Breather (Located - Front Cover) (Not Shown)	
24	70001126	1	O-Ring (Not Shown)	
25	70001125	1	Cap, Breather (Located In Cylinder Head Cover) (Not Shown)	
25	70001126	1	O-Ring (Not Shown)	
26	70001871	4	Gasket, Air Intake Manifold (Not Shown)	
27	70000345	4	Plug, Glow (Not Shown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
28	70007353	1	Gasket Kit (Not Shown)	

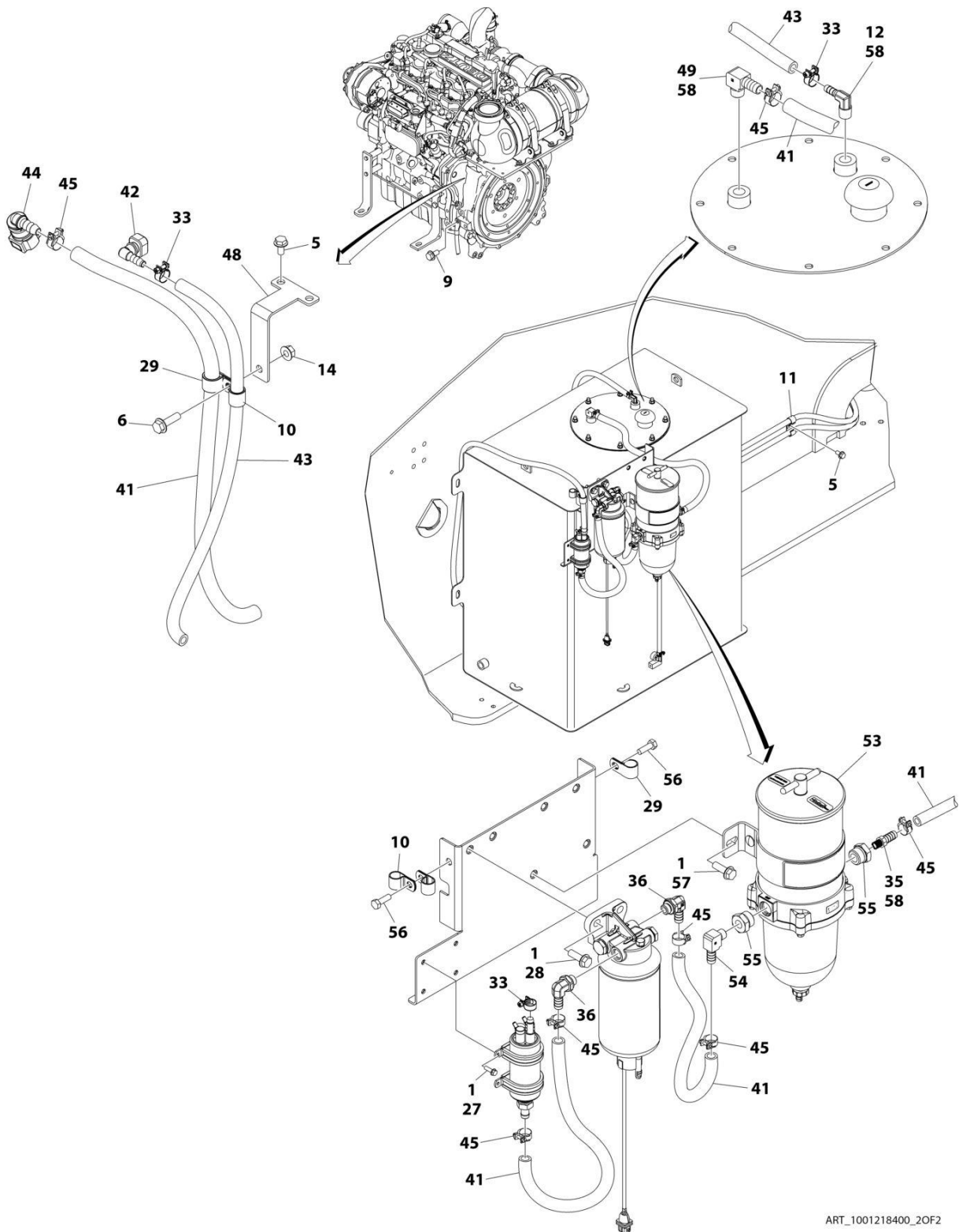
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FIGURE 3-5. DEUTZ TD2.9L4 T4F ENGINE INSTALLATION



ART_1001218400_10F2

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ART_1001218400_2OF2

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FIGURE 3-5. DEUTZ TD2.9L4 T4F ENGINE INSTALLATION

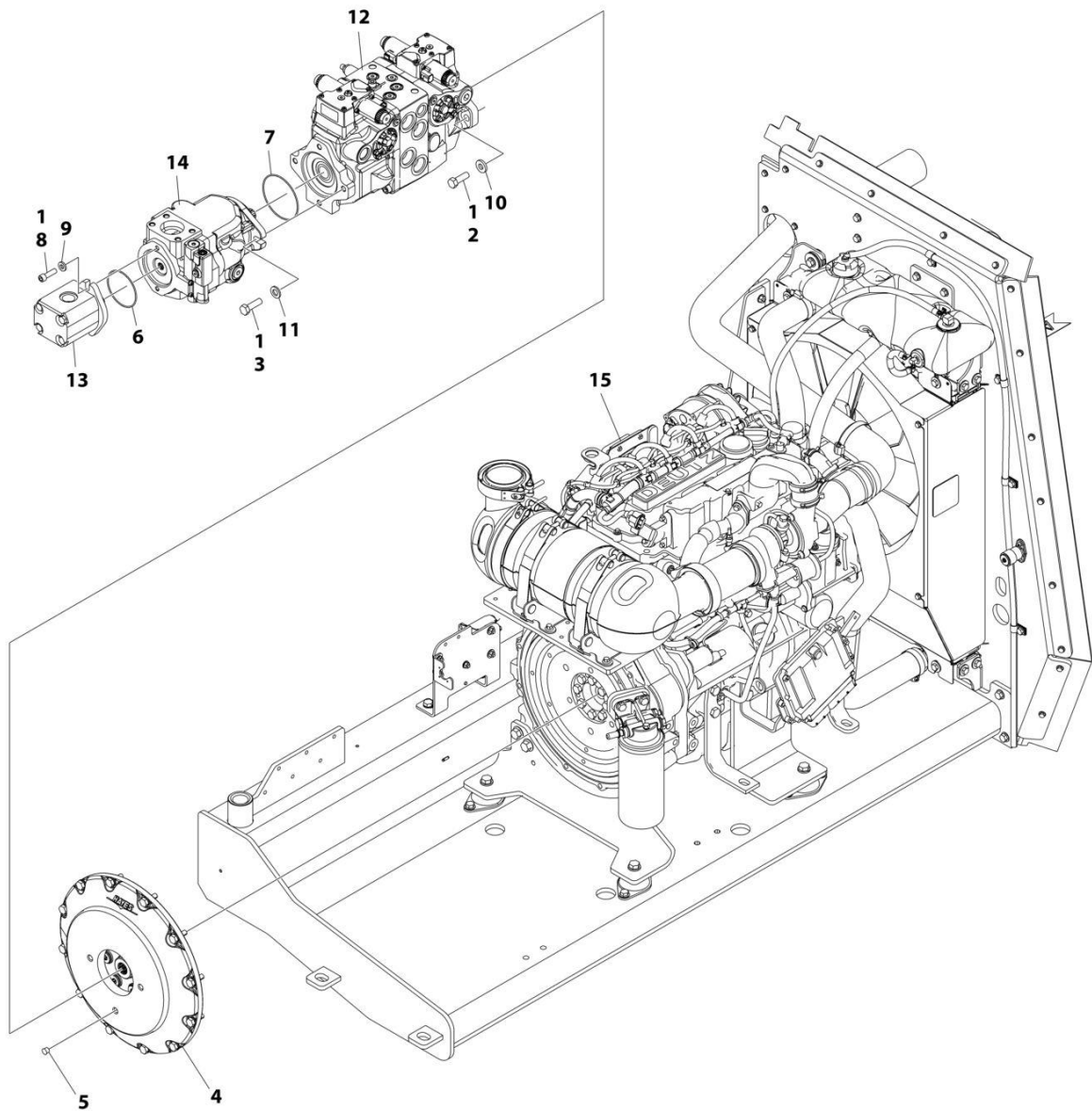
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218400	Ref	DEUTZ TD2.9L4 T4F ENGINE INSTALLATION	H
1	0100011	AR	Compound, Locking	
2	0440162	1	Bearing	
3	0701216	1	Bolt M12 x 40	
4	0760615	4	Bolt M6 x 35	
5	0760808	7	Bolt M8 x 16	
6	5250813	3	Bolt M8 x 28	
8	0761012	1	Bolt M10 x 25	
9	5251212	1	Bolt M12 x 25	
10	1320061	AR	Clamp	
11	1320223	9	Clip	
12	2220313	1	Fitting, 90 NPTF/BARB	
14	5260800	3	Nut M8	
16	3291201	2	Nut M12	
17	3291205	1	Nut M12	
18	3391210	1	Pin, Split	
19	3841143	1	Keeper, Pin	
21	4811700	4	Washer M6	
24	4812100	2	Washer M12	
25	4812102	2	Washer M12	
26	4812300	1	Washer M16	
27	5250508	4	Bolt M5 x 16	
28	5251013	2	Bolt M10 x 28	
29	8406202	2	Clip	
30	1001110425	4	Spacer	
31	1001116792	2	Clamp	
32	1001135196	1	Pin	
33	1001136975	4	Clamp	
34	1001221289	1	Fuel Pump Harness - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
35	2180832	1	Fitting, Straight Barbed	
36	1001142501	1	Fitting, 90 Barbed	
37	1001153027	1	Bracket	
38	1001153046	1	Seal	
39	1001153083	1	Hook	
40	1001153086	2	Bolt M12 x 70	
41	1001154405	AR	Hose	
42	1001155823	2	Coupling, 90 Quick Connect	
43	1001165035	AR	Hose	
44	1001170982	2	Fitting, 90	
45	1001175568	AR	Clip	
46	1001218403	1	Deutz TD2.9L4 T4F Engine and Pumps Sub-Assembly (See Separate Breakdown in this Section)	
48	1001219726	1	Plate, Clamping	
49	1001220535	1	Fitting, 90 NPT/Barbed	
50	1001220749	1	Battery Cable Kit - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
53	1001222817	1	Filter, Fuel Assembly (See Separate Breakdown in this Section)	
54	1001224023	1	Fitting, 90 NPT/Barbed	
54	1001178797	1	Fitting, 90 NPTF/Barbed	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55	2220816	2	Fitting, Straight FNPTF/ORB	
56	5250810	2	Bolt M8 x 20	
57	5251011	2	Bolt M10 x 22	
58	0100020	AR	Sealant	

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FIGURE 3-6. DEUTZ TD2.9L4 T4F ENGINE AND PUMPS SUB-ASSEMBLY



ART_1001218403

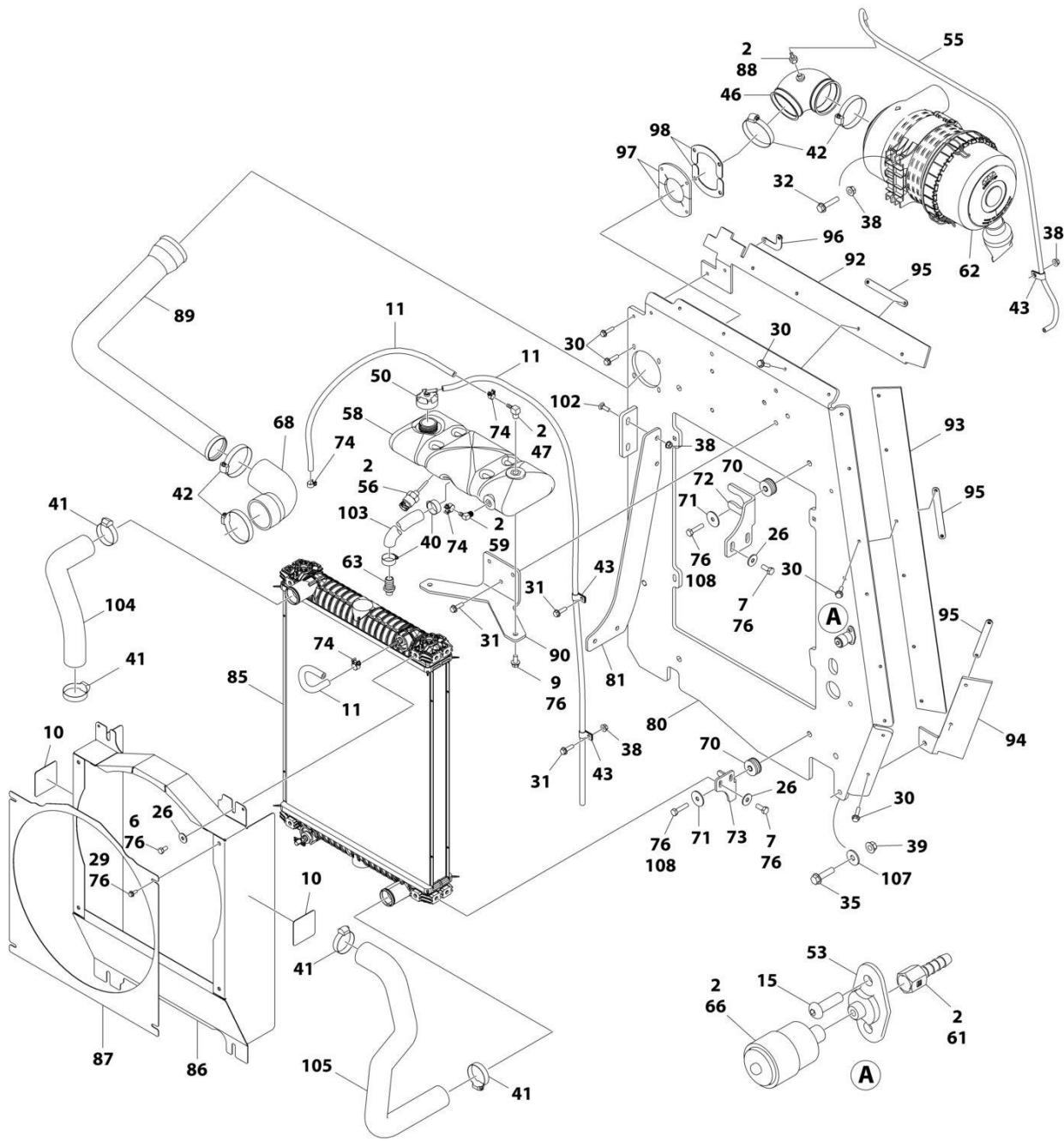
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FIGURE 3-6. DEUTZ TD2.9L4 T4F ENGINE AND PUMPS SUB-ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218403	Ref	DEUTZ TD2.9L4 T4F ENGINE AND PUMPS SUB-ASSEMBLY	A
1	0100011	AR	Compound, Locking	
2	0641812	2	Bolt 1/2 x 1-1/2	
3	0761216	2	Bolt M12 x 40	
4	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
5	3520054	1	Plug	
6	3790152	1	O-Ring	
7	3790155	1	O-Ring	
8	3931620	2	Capscrew 3/8 x 1-1/4	
9	4891600	2	Washer 3/8	
10	4891800	2	Washer 1/2	
11	5241200	2	Washer M12	
12	1001108616	1	Tandem Pump Assembly (See Separate Breakdown in this Section)	
13	1001112927	1	Gear Pump Assembly (See Separate Breakdown in this Section)	
14	1001171095	1	Piston Pump Assembly (See Separate Breakdown in this Section)	
15	1001218404	1	Deutz TD2.9L4 T4F Engine Assembly (See Separate Breakdown in this Section)	

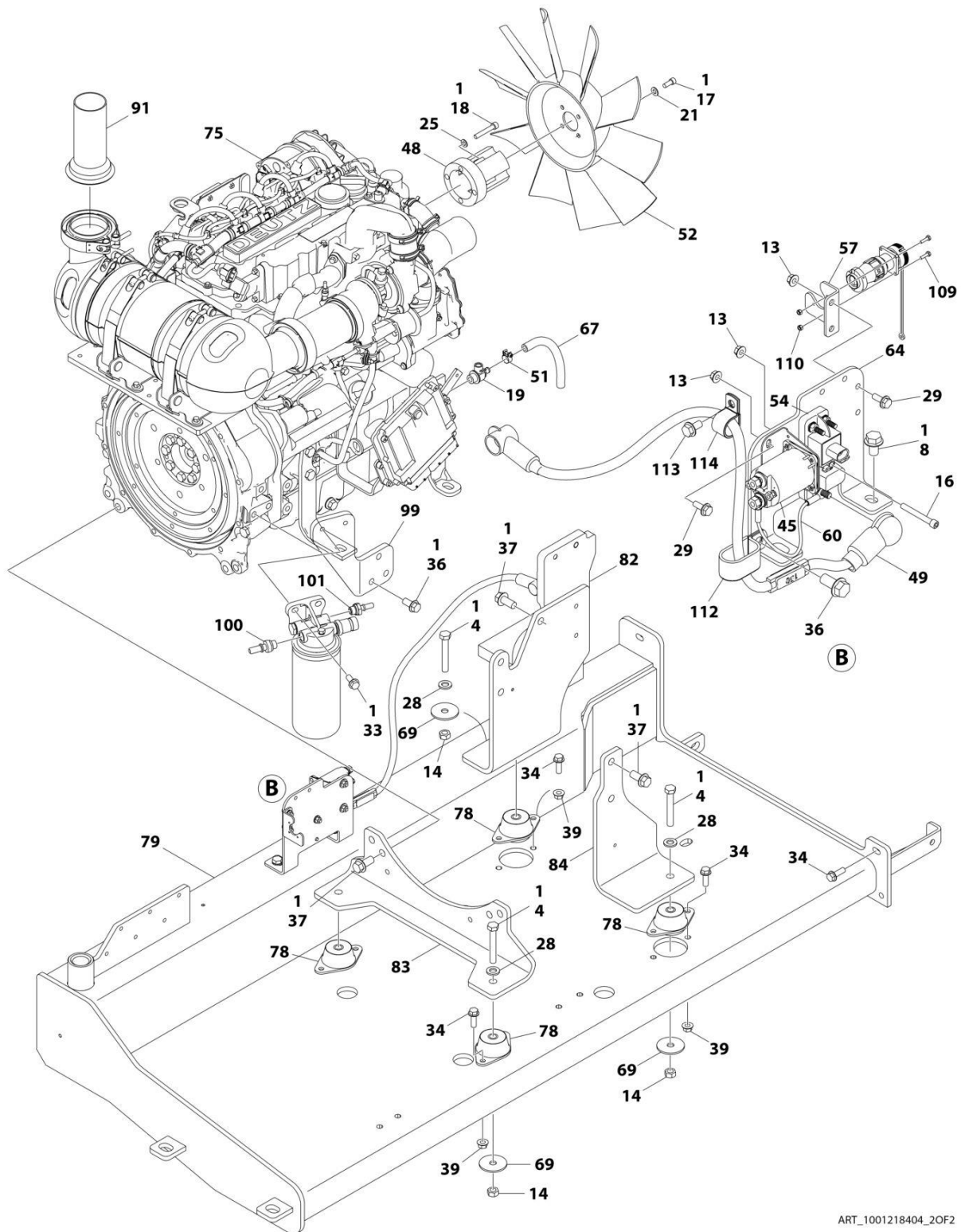
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FIGURE 3-7. DEUTZ TD2.9L4 T4F ENGINE ASSEMBLY



ART_1001218404_1OF2

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ART_1001218404_2OF2

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FIGURE 3-7. DEUTZ TD2.9L4 T4F ENGINE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218404	Ref	DEUTZ TD2.9L4 T4F ENGINE ASSEMBLY	I
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant	
4	0711224	4	Bolt M12 x 80	
6	0760808	4	Bolt M8 x 16	
7	0760810	8	Bolt M8 x 20	
8	5251008	2	Bolt M10 x 16	
9	0811606	2	Bolt 3/8 x 3/4	
10	1703162	2	Decal - Fan Blade	
11	1001228200	90 in/ 2.3m	Hose	
13	5260600	3	Nut M6	
14	3331211	4	Nut M12	
15	3900364	2	Screw M6 x 20	
16	0700618	1	Capscrew M6 x 50	
17	3931512	4	Capscrew 5/16 x 3/4	
18	4031914	4	Capscrew M8 x 50	
19	4640751	1	Valve, Oil Drain	
21	4711500	4	Washer 5/16	
25	4811900	4	Washer M8	
26	4811902	12	Washer M8	
28	5241200	4	Washer M12	
29	5250608	AR	Bolt M6 x 16	
30	5250612	18	Bolt M6 x 25	
31	5250813	8	Bolt M8 x 28	
32	5250816	2	Bolt M8 x 40	
33	5251012	2	Bolt M10 x 25	
34	5251014	10	Bolt M10 x 30	
35	5251016	1	Bolt M10 x 40	
36	5251212	4	Bolt M12 x 25	
37	5251414	9	Bolt M14 x 30	
38	5260800	11	Nut M8 Grade 10	
39	5261000	9	Nut M10 Grade 10	
40	8405007	2	Clamp	
41	8405104	4	Clamp	
42	8405204	4	Clamp	
43	8406109	8	Clip	
45	1001117308	1	Contactor	
46	1001126874	1	Elbow, Air Intake	
47	1001134488	1	Fitting, 90 Barbed	
48	1001135138	1	Spacer, Fan	
49	1001135779	1	Cable, Alternator +	
50	1001136834	1	Cap	
51	1001136975	1	Clamp	
52	1001137276	1	Fan	
53	1001138173	1	Support	
54	1001138228	1	Relay	
55	1001138248	AR	Tube, Nylon	
56	1001138827	1	Sensor, Coolant Level	
57	1001139240	1	Bracket	

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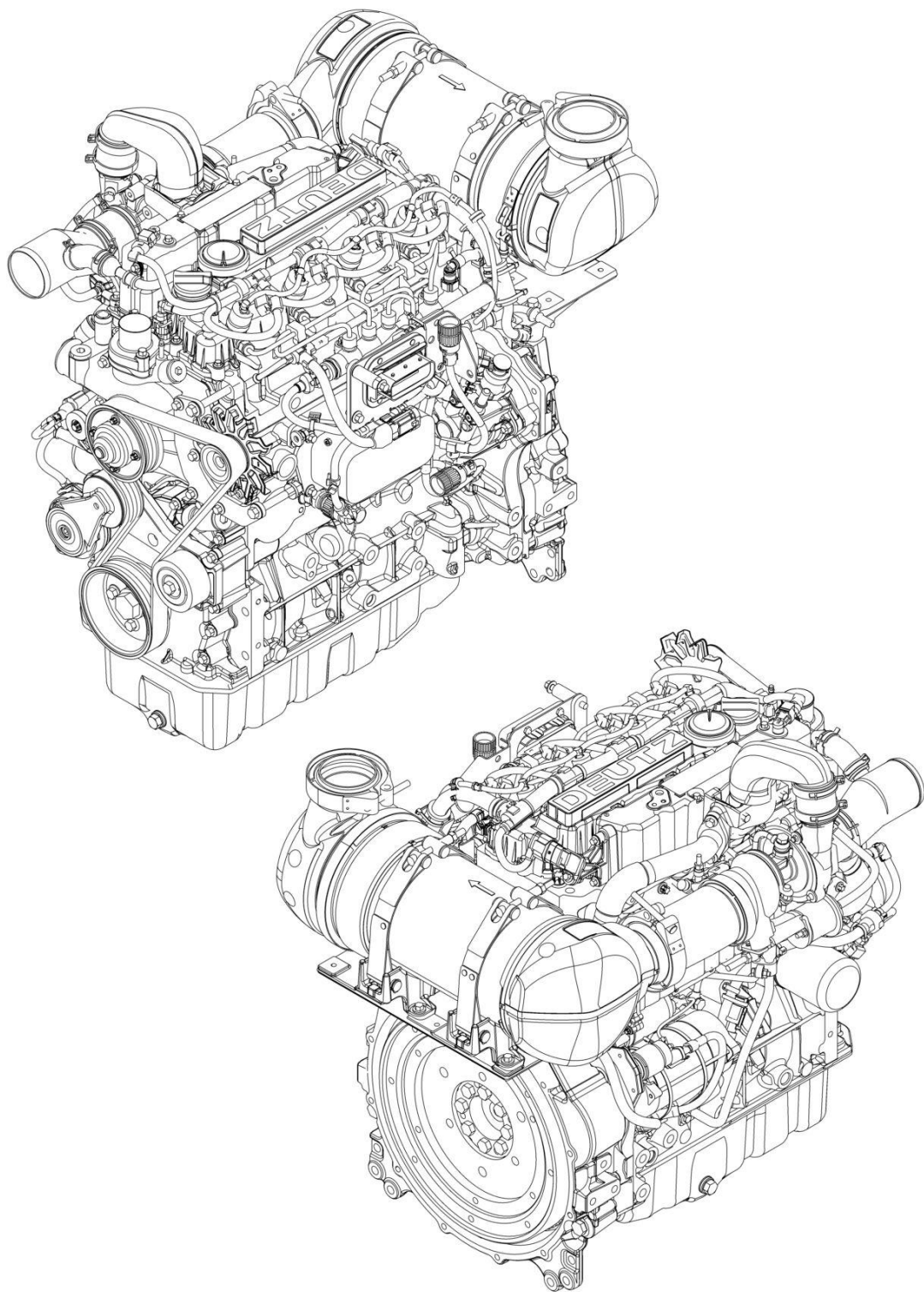
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
58	1001229542	1	Tank, Surge	
59	1001140564	1	Fitting, 90 Barbed	
60	1001141304	1	Glow Fuse Harness	
61	1001141995	1	Fitting, NPT/Barbed	
62	1001142259	1	Air Cleaner Assembly (See Separate Breakdown in this Section)	
63	1001143797	1	Fitting, Straight Barbed	
64	1001145154	1	Plate	
65	1001148843	1	Fuel Filter Harness - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
66	1001149639	1	Indicator, Restriction	
67	1001165035	9 in/21cm	Hose	
68	1001165820	1	Hose, 90	
69	1001168018	4	Washer	
70	1001169054	4	Isolator	
71	1001169138	4	Pad	
72	1001169967	2	Bracket	
73	1001170035	2	Bracket	
74	1320022	4	Clamp	
75	1001249946	1	Deutz TD2.9L4 T4F Engine Components (See Separate Breakdown in this Section)	
76	1001180620	AR	Adhesive	
78	1001191610	4	Mount, Motor	
79	1001218405	1	Tray	
80	1001218406	1	Plate	
81	1001218408	1	Brace	
82	1001218409	1	Mount, Engine (Front Inboard)	
83	1001218411	1	Mount, Engine (Rear)	
84	1001218412	1	Mount, Engine (Front Outboard)	
85	1001218414	1	Radiator	
86	1001218416	1	Shroud, Fan	
87	1001218417	1	Plate	
88	1001180516	1	Adapter	
89	1001218423	1	Tube, Air Intake	
90	1001218425	1	Bracket	
91	1001231245	1	Pipe, Exhaust	
92	1001218429	1	Seal, Radiator (Top)	
93	1001218430	1	Seal, Radiator (Upper)	
94	1001218431	1	Seal, Radiator (Lower)	
95	1001218432	6	Plate	
96	1001218434	1	Plate	
97	1001218436	2	Seal	
98	1001218437	2	Plate	
99	1001218440	1	Bracket, Filter	
100	1001218443	1	Fitting, Straight	
101	1001218444	1	Fitting, Straight	
102	1001218448	4	Bolt	
103	1001218580	AR	Hose	
104	1001218944	1	Hose, Radiator (Top)	
105	1001218945	1	Hose, Radiator (Bottom)	
106	1001220261	1	Engine Harness - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
107	4812002	1	Washer M10	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
108	0701017	4	Bolt M10 x 45	
109	0760306	3	Bolt M3 x 12	
110	3290305	3	Nut M3	
111	4240099	AR	Tie Strap (Not Shown)	
112	1001181899	1	Clamp	
113	5250808	1	Bolt M8 x 16	
114	8406202	1	Clip	
114	1001026127	1	Clamp	

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FIGURE 3-8. DEUTZ TD2.9L4 T4F ENGINE COMPONENTS



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FIGURE 3-8. DEUTZ TD2.9L4 T4F ENGINE COMPONENTS

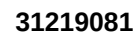
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001249946	Ref	DEUTZ ENGINE COMPONENTS	A
		Ref	Note: For complete list of parts, contact JLG Parts Department.	
		Ref	Air Intake System Components	
	70004276	1	Turbocharger	
		Ref	Cooling System Components	
		Ref	Pump, Coolant	
		Ref	Thermostat	
		Ref	Electrical System Components	
	70025210	1	Module, ECU/ECM	
	70024914	1	Generator (Includes Regulator & Fan)	
	70025149	1	Regulator	
	70024915	1	Starter (Includes Solenoid & Relay)	
	70005647	1	Solenoid	
	70005648	1	Relay	
	70025231	1	Harness, Injector	
	70025077	1	Harness, Engine	
	70026210	1	Sender, Tacho-Generator (Speed) (On Rear of Block) (Includes Seal)	
	70024916	1	Sender, Tacho-Generator (Speed) (On Front Cover) (Includes Seal)	
	70024922	1	Sender, Temperature (Includes Seal) (On Air Intake Manifold)	
	70024507	1	Sensor, Pressure (Includes Seal) (On Air Intake Manifold)	
	70024918	1	Sender, Temperature (On Head)	
	70024504	1	Sensor, Pressure (Includes Seal) (On Block)	
		Ref	Plug, Glow	
		Ref	Exhaust System Components	
	70005189	1	Valve, EGR	
	70025130	8	Bolt, Exhaust Manifold	
	70025164	1	Gasket, Exhaust Manifold	
	70025246	1	Outlet, Muffler	
		Ref	Muffler	
	70025245	2	Bracket, Muffler Mounting	
	70004504	1	Compensator, Exhaust	
		Ref	Fuel System Components	
	70024924	1	Pump, High Pressure	
	70025181	4	Injector(Includes Seal Clamp & O-Ring)	
	70006144	1	Pump, Fuel Supply (Includes Clamps)	
	1001225430	1	Filter, Fuel (Pre-Filter)	
	1001225431	1	Filter, Fuel	
		Ref	Lubricating System Components	
	7020465	2	Cap, Oil Fill	
	70005941	2	Plug, Oil Drain	
	70005942	2	Seal, Oil Drain Plug	
	70005172	1	Pump, Oil (Includes seal 7 Gasket)	
	7016331	1	Filter, Oil	
	70024494	1	Cooler, Oil	
		Ref	Mechanical Components	
	70001870	1	Flywheel (includes Ring Gear)	
		Ref	V-Belt	
	70004279	1	Gasket Set - Complete	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70005938	1	Gasket Set - Complete	

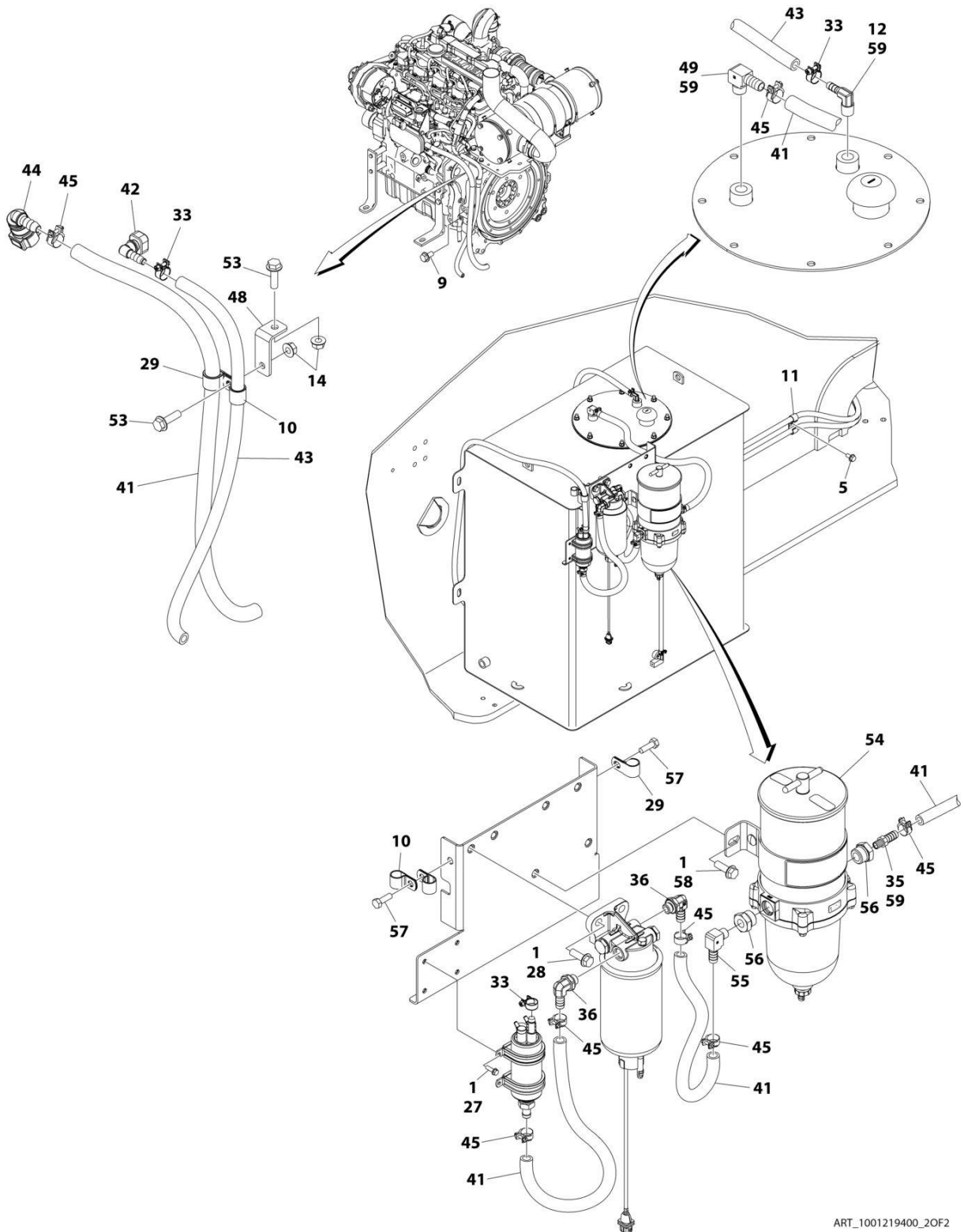
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FIGURE 3-9. DEUTZ TD2.9L4 T4I ENGINE INSTALLATION

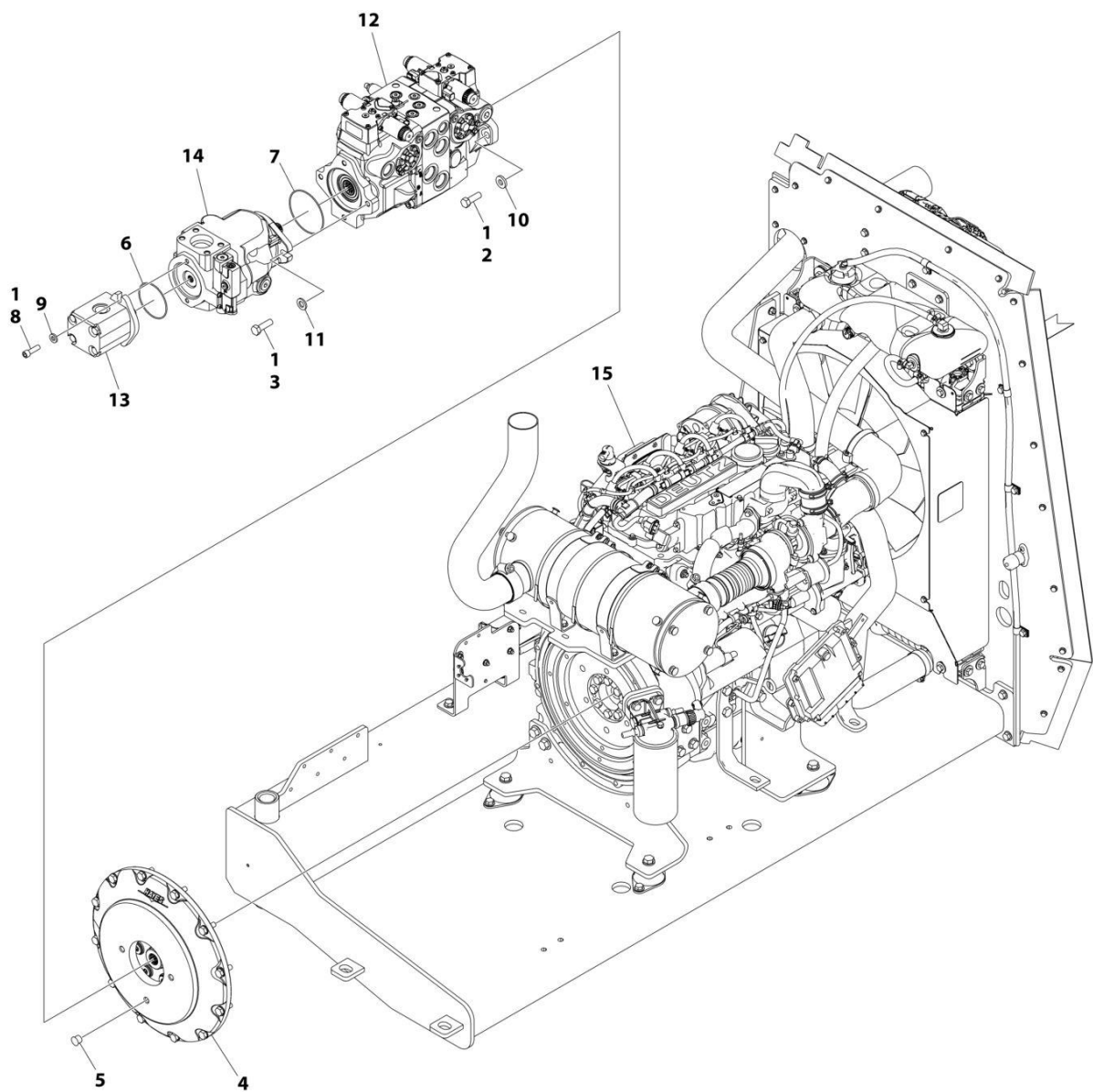
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219400	Ref	DEUTZ TD2.9L4 T4I ENGINE INSTALLATION	I
1	0100011	AR	Compound, Locking	
2	0440162	1	Bearing	
3	0701216	1	Bolt M12 x 40	
4	0760615	4	Bolt M6 x 35	
5	5250808	5	Bolt M8 x 16	
8	0761012	1	Bolt M10 x 25	
9	5251212	1	Bolt M12 x 25	
10	1320061	3	Clamp	
11	1320223	9	Clip	
12	2220313	1	Fitting, 90 NPTF/Barb	
14	5260800	4	Nut M8	
16	3291201	2	Nut M12	
17	3291205	1	Nut M12	
18	3391210	1	Pin, Split	
19	3841143	1	Keeper, Pin	
21	4811700	4	Washer M6	
24	4812100	2	Washer M12	
25	4812102	2	Washer M12	
26	4812300	1	Washer M16	
27	5250508	4	Bolt M5 x 16	
28	5251014	2	Bolt M10 x 30	
29	8406202	2	Clip	
30	1001110425	4	Spacer	
31	1001116792	2	Clamp	
32	1001135196	1	Pin	
33	1001136975	4	Clamp	
34	1001221289	1	Fuel Pump Harness - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
35	2180832	1	Fitting, Straight Barbed	
36	1001142501	2	Fitting, 90 Barbed	
37	1001153027	1	Bracket	
38	1001153046	1	Seal	
39	1001153083	1	Hook	
40	1001153086	2	Bolt M12 x 70	
41	1001154405	AR	Hose	
42	1001155823	2	Coupling, 90 Quick Connect	
43	1001165035	AR	Hose	
44	1001170982	2	Fitting, 90	
45	1001175568	AR	Clip	
46	1001219403	1	Deutz TD2.9L4 T4i Engine and Pumps Sub-Assembly (See Separate Breakdown in this Section)	
47	1001219631	1	Bracket	
48	1001221205	1	Bracket	
49	1001220535	1	Fitting, 90	
50	1001220749	1	Battery Cable Kit - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
53	5250813	1	Bolt M8 x 28	
54	1001222817	1	Filter, Fuel Assembly (See Separate Breakdown in this Section)	
55	1001224023	1	Fitting, 90 NPT/Barbed	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55	1001178797	1	Fitting, 90 NPTF/Barbed	
56	2220816	2	Fitting, Straight FNPTF/ORB	
57	5250810	2	Bolt M8 x 20	
58	5251011	2	Bolt M10 x 22	
59	0100020	AR	Sealant	

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FIGURE 3-10. DEUTZ TD2.9L4 T4I ENGINE AND PUMPS SUB-ASSEMBLY



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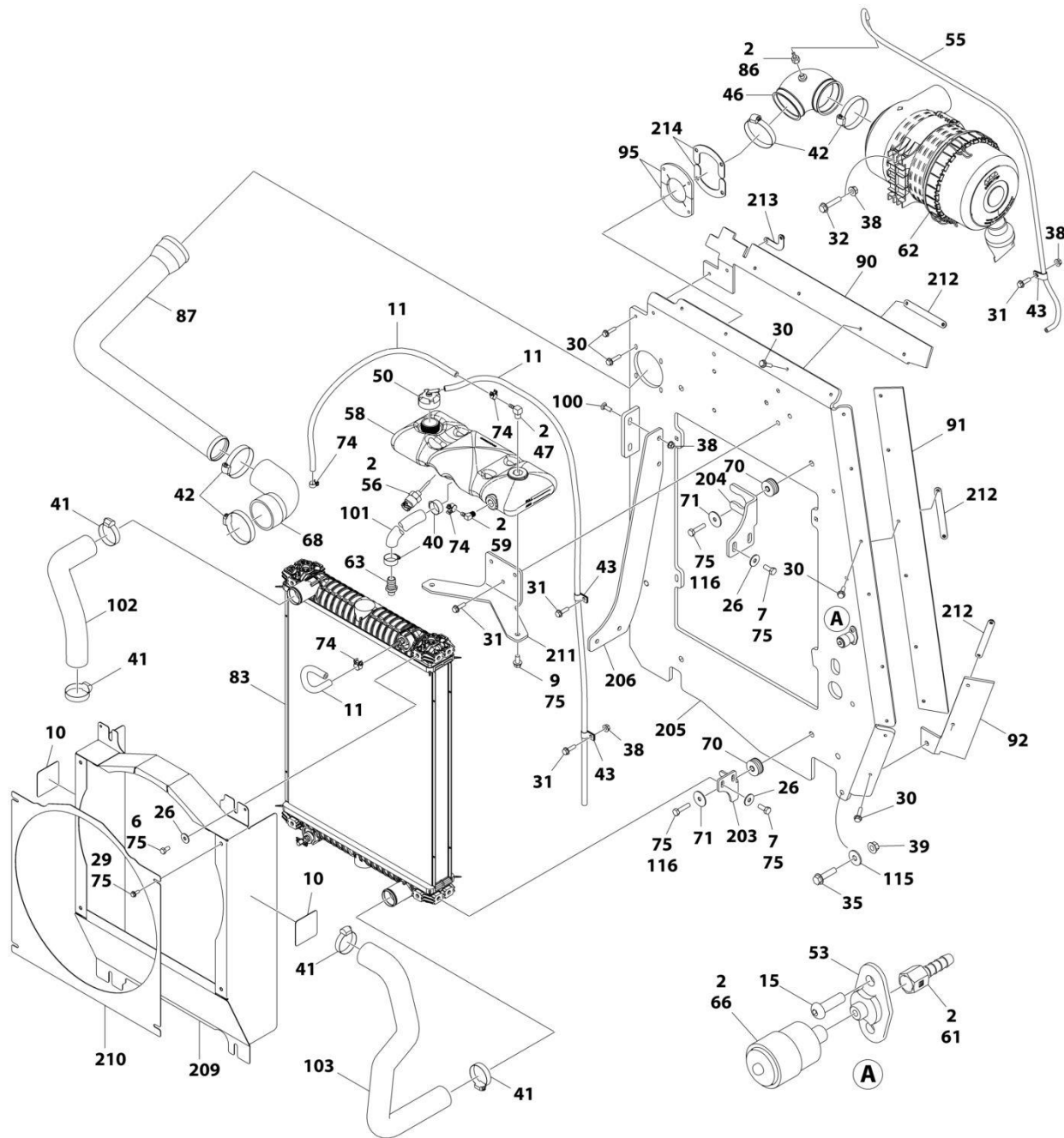
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FIGURE 3-10. DEUTZ TD2.9L4 T4i ENGINE AND PUMPS SUB-ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219403	Ref	DEUTZ TD2.9L4 T4i ENGINE AND PUMPS SUB-ASSEMBLY	D
1	0100011	AR	Compound, Locking	
2	0641812	2	Bolt 1/2 x 1-1/2	
3	0761216	2	Bolt M12 x 40	
4	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
5	3520054	1	Plug	
6	3790152	1	O-Ring	
7	3790155	1	O-Ring	
8	3931620	2	Capscrew 3/8 x 1-1/4	
9	4891600	2	Washer 3/8	
10	4891800	2	Washer 1/2	
11	5241200	2	Washer M12	
12	1001108616	1	Tandem Pump Assembly (See Separate Breakdown in this Section)	
13	1001112927	1	Gear Pump Assembly (See Separate Breakdown in this Section)	
14	1001171095	1	Piston Pump Assembly (See Separate Breakdown in this Section)	
15	1001219404	1	Deutz TD2.9L4 T4i Engine Assembly (See Separate Breakdown in this Section)	

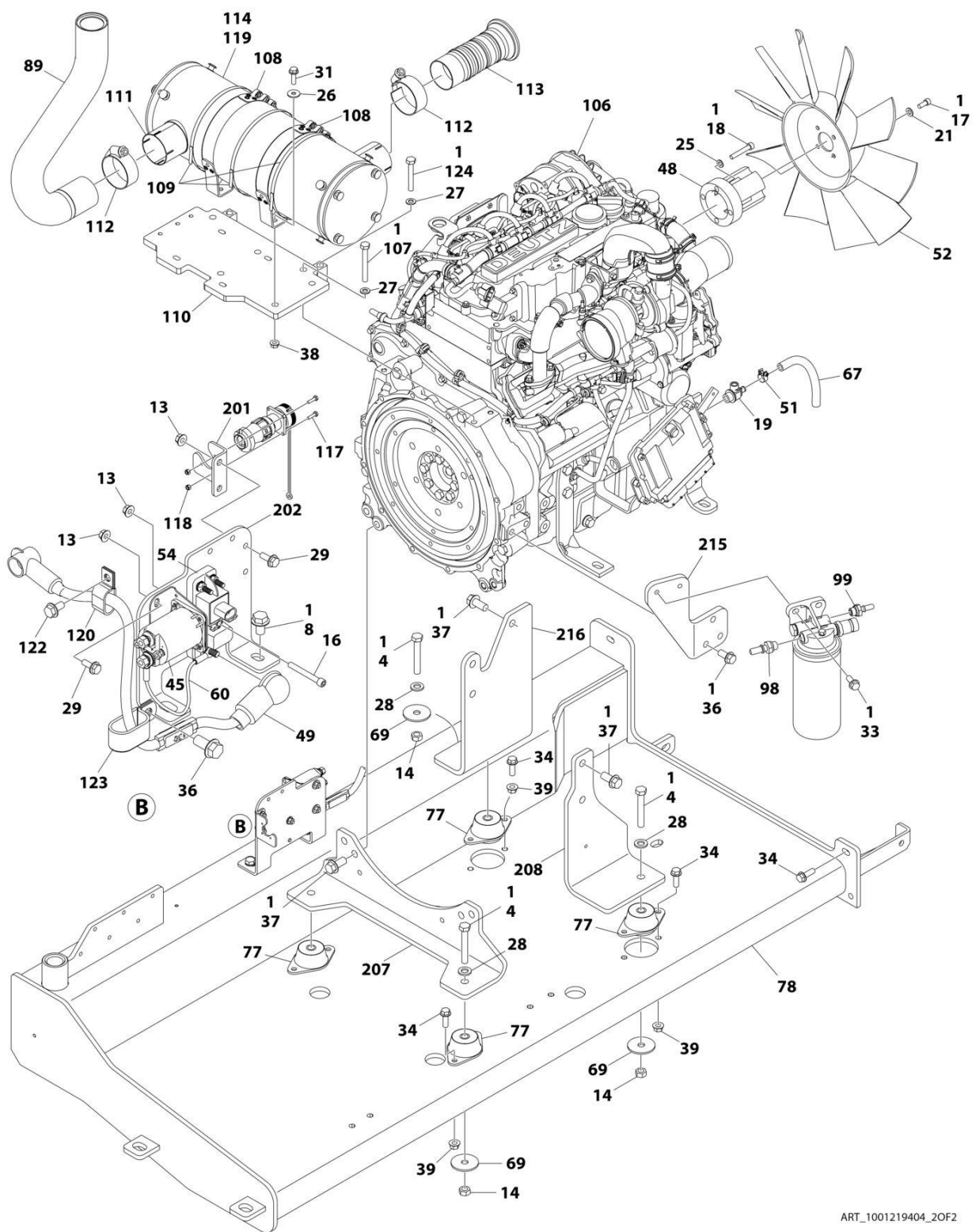
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FIGURE 3-11. DEUTZ TD2.9L4 T4I ENGINE ASSEMBLY



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FIGURE 3-11. DEUTZ TD2.9L4 T4I ENGINE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219404	Ref	DEUTZ TD2.9L4 T4I ENGINE ASSEMBLY	L
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant	
4	0711224	4	Bolt M12 x 80	
6	0760808	4	Bolt M8 x 16	
7	0760810	8	Bolt M8 x 20	
8	5251008	2	Bolt M10 x 16	
9	0811606	2	Bolt 3/8 x 3/4	
10	1703162	2	Decal - Fan Blade	
11	1001228200	90 in/ 2.3m	Hose	
13	5260600	5	Nut M6	
14	3331211	4	Nut M12	
15	3900364	2	Screw M6 x 20	
16	0700618	1	Capscrew M6 x 50	
17	3931512	4	Capscrew 5/16 x 3/4	
18	4031914	4	Capscrew M8 x 50	
19	4640751	1	Valve, Oil Drain	
21	4711500	4	Washer 5/16	
25	4811900	4	Washer M8	
26	4811902	16	Washer M8	
27	4812000	AR	Washer M10	
28	5241200	4	Washer M12	
29	5250608	AR	Bolt M6 x 16	
30	5250612	18	Bolt M6 x 25	
31	5250813	12	Bolt M8 x 28	
32	5250816	2	Bolt M8 x 40	
33	5251012	2	Bolt M10 x 25	
34	5251014	10	Bolt M10 x 30	
35	5251016	AR	Bolt M10 x 40	
36	5251212	AR	Bolt M12 x 25	
37	5251414	9	Bolt M14 x 30	
38	5260800	15	Nut M8 Grade 10	
39	5261000	9	Nut M10 Grade 10	
40	8405007	2	Clamp	
41	8405104	4	Clamp	
42	8405204	4	Clamp	
43	8406109	8	Clip	
45	1001117308	1	Contacto	
46	1001126874	1	Elbow, Air Intake	
47	1001134488	1	Fitting, 90 Barbed	
48	1001135138	1	Spacer, Fan	
49	1001135779	1	Cable, Alternator +	
50	1001136834	1	Cap, Tank	
51	1001136975	1	Clamp	
52	1001137276	1	Fan	
53	1001138173	1	Support	
54	1001138228	1	Relay	
55	1001138248	51.2 in/ 1.3m	Tube, Nylon	

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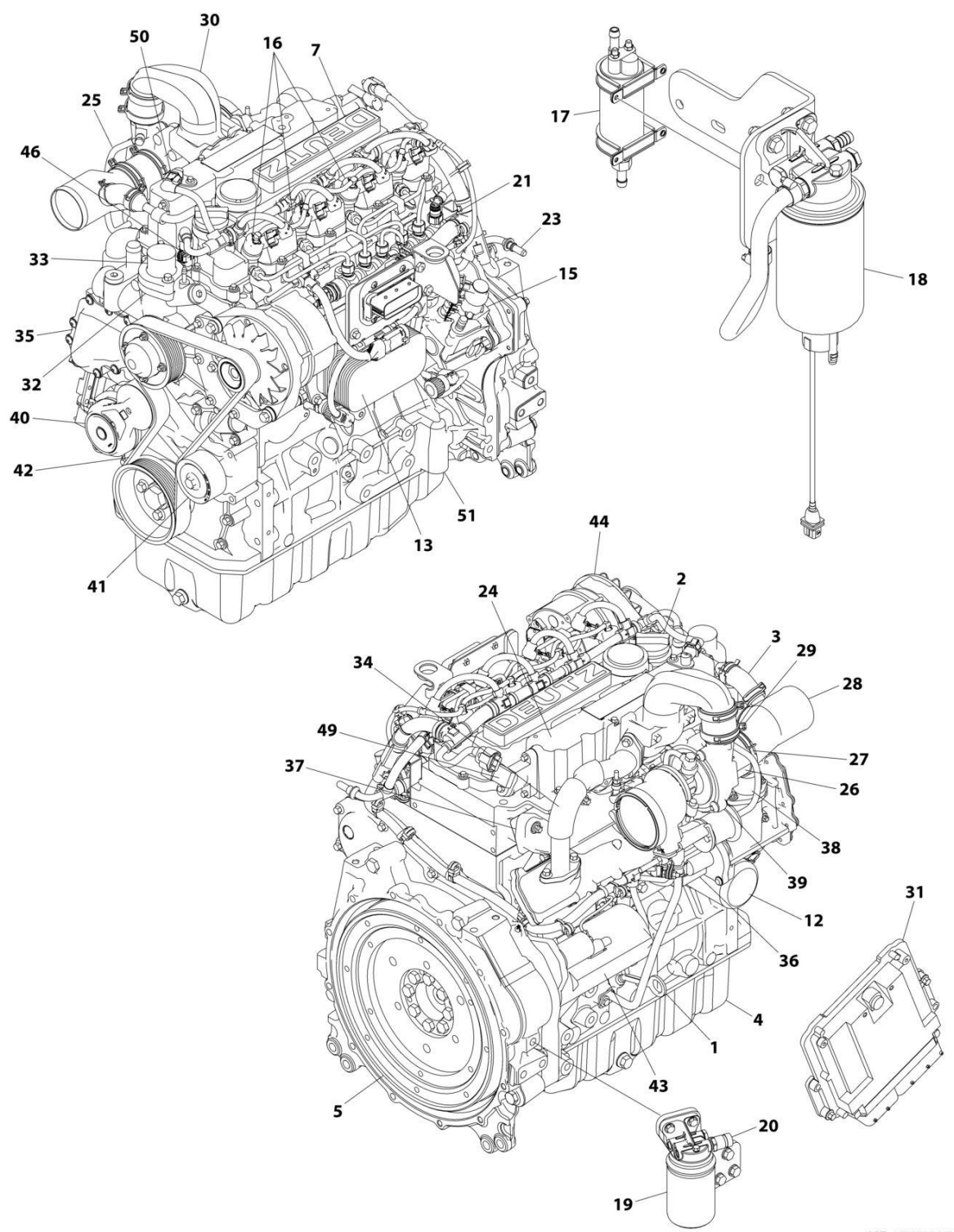
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	1001138827	1	Sensor, Coolant Level	
58	1001229542	1	Tank, Surge	
59	1001140564	1	Fitting, 90 Barbed	
60	1001141304	1	Glow Fuse Harness	
61	1001141995	1	Fitting, Straight NPT/Barbed	
62	1001142259	1	Air Cleaner Assembly (See Separate Breakdown in this Section)	
63	1001143797	1	Fitting, Straight Barbed	
65	1001148843	1	Fuel Filter Harness - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
66	1001149639	1	Indicator, Restriction	
67	1001165035	8.5 in/ 21cm	Hose	
68	1001165820	1	Hose, Turbo Inlet 90	
69	1001168018	4	Washer	
70	1001169054	4	Isolator, Radiator	
71	1001169138	4	Pad	
74	1320022	4	Clamp	
75	1001180620	AR	Adhesive	
77	1001191610	4	Mount, Motor	
78	1001218405	1	Tray	
83	1001218414	1	Radiator	
86	1001180516	1	Adapter	
87	1001218423	1	Tube, Air Intake	
89	1001257154	1	Pipe, Exhaust	
90	1001218429	1	Seal	
91	1001218430	1	Seal	
92	1001218431	1	Seal	
95	1001218436	2	Seal	
98	1001218443	1	Fitting, Straight	
99	1001218444	1	Fitting, Straight	
100	1001218448	4	Bolt	
101	1001218580	AR	Hose	
102	1001218944	1	Hose, Radiator (Top)	
103	1001218945	1	Hose, Radiator (Bottom)	
105	1001220261	1	Engine Harness - Deutz TD2.9L4 (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
106	1001219642	1	Deutz TD2.9L4 T4i Engine Components (See Separate Breakdown in this Section)	
107	0701025	2	Bolt M10 x 85	
108	1001119727	2	Clamp	
109	1001137336	3	Strap	
110	1001221203	1	Bracket	
111	1001151432	1	Muffler	
112	1001221212	2	Clamp	
113	1001221217	1	Pipe, Flex	
114	1001221427	1	Muffler-Wrap	
115	4812002	1	Washer M10	
116	0701017	4	Bolt M10 x 45	
117	0760306	3	Bolt M3 x 12	
118	3290305	3	Nut M3	
119	4920385	1	Wire, Safety	
120	8406202	1	Clip	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
120	1001026127	1	Clamp	
121	4240099	1	Tie Strap (Not Shown)	
122	5250808	1	Bolt M8 x 16	
123	1001181899	1	Clamp	
124	0701022	2	Bolt M10 x 70	
200	1001269754	1	Plates & Brackets Kit	
201	1001139240	1	Bracket	
202	1001145154	1	Plate	
203	1001169967	2	Bracket	
204	1001170035	2	Bracket	
205	1001218406	1	Plate, Radiator Mounting	
206	1001218408	1	Brace	
207	1001218411	1	Mount, Engine (Rear)	
208	1001218412	1	Mount, Engine (Front Outboard)	
209	1001218416	1	Shroud, Fan	
210	1001218417	1	Plate, Shroud	
211	1001218425	1	Bracket, Surge Tank	
212	1001218432	6	Plate, Clamping	
213	1001218434	1	Plate, Clamping	
214	1001218437	2	Plate, Clamping	
215	1001218440	1	Bracket	
216	1001219455	1	Mount, Engine (Front Inboard)	

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FIGURE 3-12. DEUTZ TD2.9L4 T4I ENGINE COMPONENTS



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FIGURE 3-12. DEUTZ TD2.9L4 T4I ENGINE COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219642	Ref	DEUTZ TD2.9L4 ENGINE COMPONENTS	D
1	70006127	1	Dipstick	
1	70024905	1	O-Ring	
2	7020465	2	Cap, Filler	
3	70005920	1	Hose	
3	70025111	2	Clamp	
4	70025162	1	Pan, Oil	
4	70005941	2	Plug	
4	70005942	2	Washer, Sealing	
5	70001870	1	Flywheel	
5	7024579	1	Gear, Ring	
6	70024906	1	Gasket, Head (Not Shown)	
7	70005921	1	Cover, Valve	
7	70025205	1	Gasket	
7	70005171	1	Gasket	
8	70025076	1	Valve (Not Shown - Located on Right Side of Front Engine Cover)	
8	70025176	1	Spring	
8	70025082	1	Ring, Sealing	
8	70025091	1	Plug	
9	70004280	1	Seal, Shaft - Front (Not Shown)	
10	70002718	1	Seal, Shaft - Rear (Not Shown)	
11	70005172	1	Pump, Oil Lube (Not Shown)	
11	70025135	1	O-Ring	
11	70005173	1	Gasket	
12	7016331	1	Filter, Oil	
12	70025137	1	Bushing	
13	70024494	1	Cooler, Engine Oil (Not Shown - Located on Right Side)	
13	70024925	1	Gasket	
14	70025171	1	Oil Suction Pump (Not Shown - Located Inside of Engine Oil Pan)	
15	70024924	1	Pump, Fuel	
15	70025152	1	O-Ring	
15	70025080	1	Washer	
15	70024488	1	Spacer	
15	70024517	1	O-Ring	
16	70025181	4	Injector, Fuel (Not Shown - Located on Right Side)	
16	70025140	4	Washer, Sealing	
16	70025146	4	Clamp (Top of Injector)	
16	70025145	4	O-Ring	
16	70025154	4	Shoe, Clamping	
16	70000345	1	Plug, Glow (Not Shown)	
16	70025231	1	Harness, Glow Plug (Not Shown)	
17	70005174	NLA	Pump, Fuel (Use p/n 1001226098)	
17	70025144	2	Clamp	
18	70024961	1	Fuel Filter Assembly	
18	70025153	NLA	Filter, Fuel (Use p/n 1001225430)	
18	70024513	1	Cable, Sensor	
18	70025239	1	Ring, Sealing	
19	70004511	1	Filter with Head	
19	70004512	NLA	Filter, Fuel (Use p/n 1001225432)	
20	70024504	1	Sensor, Pressure	

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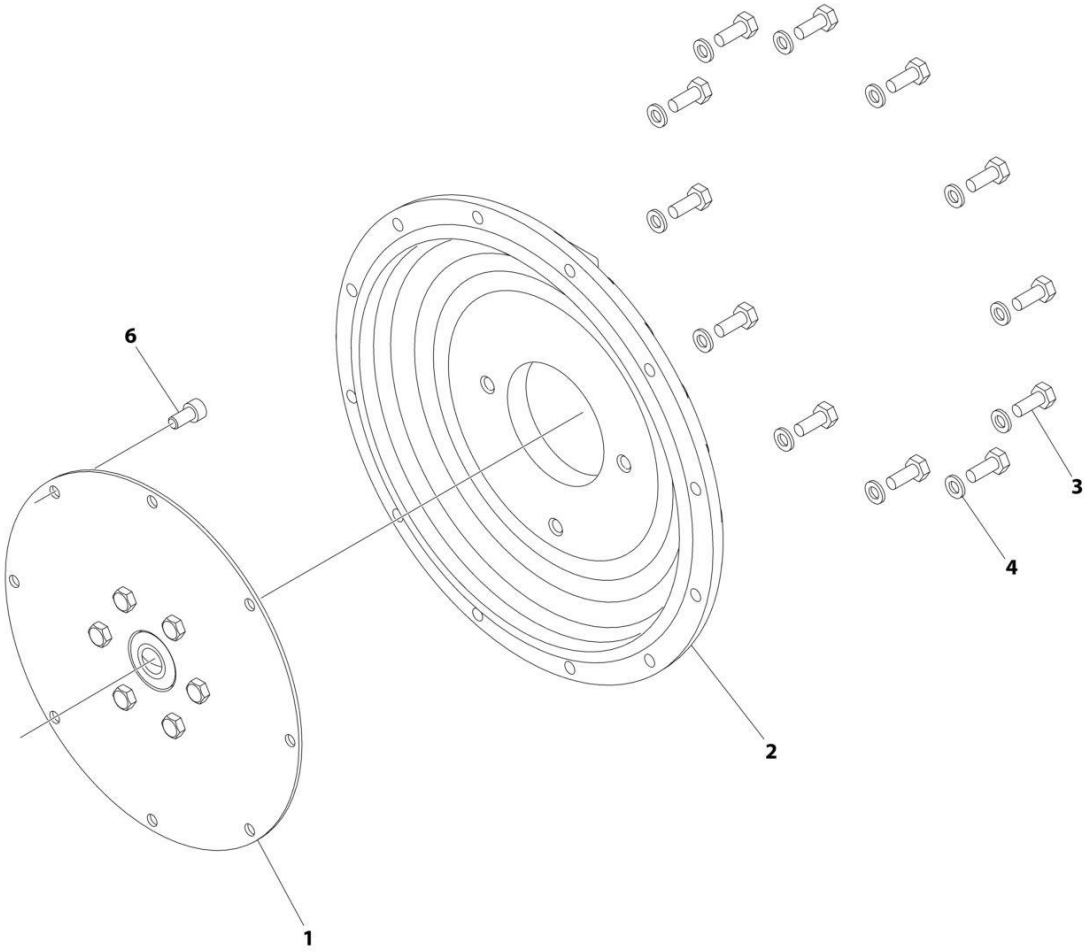
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
20	70024920	1	O-Ring	
21	70025151	1	Rail, Fuel	
21	70025235	1	Repair Kit	
21	70025240	1	O-Ring	
22	70025182	1	Fuel Line - High Pressure (Cylinder 1 & 2) (Not Shown)	
22	70025183	1	Fuel Line - High Pressure (Cylinder 3 & 4) (Not Shown)	
22	70025184	1	Fuel Line - High Pressure (Supply) (Not Shown)	
23	70025158	1	Manifold, Fuel	
23	70025109	2	Clamp	
23	70025115	1	Clamp	
23	70025133	1	Hose	
23	70024502	1	Pipe	
23	70025185	1	Hose	
23	70025101	2	Clamp	
24	70005923	1	Charge Air Pipe	
24	70005924	1	O-Ring	
24	70005177	1	Gasket	
25	70005925	1	Breather Line	
25	70005181	1	O-Ring	
26	70004501	1	Sleeve, Rubber	
27	70025112	2	Clamp	
28	70005926	1	Elbow Connector	
29	70005927	1	Sleeve, Rubber	
29	70025107	2	Clamp	
30	70005928	1	Charge Air Elbow	
31	70025210	1	ECU (Engine Control Unit)	
32	70024910	1	Pump, Water	
32	70025200	1	Ring, Sealing	
32	70025084	2	Plug	
32	7020492	2	Ring, Sealing	
33	70005929	1	Thermostat	
33	70005184	1	O-Ring	
33	70025142	1	Cover, Thermostat	
33	70025931	1	Gasket	
34	70025178	1	Pipe	
34	70025768	1	Valve, Shuttle	
34	70025179	2	Gasket	
34	70025180	1	Gasket	
35	70025203	1	Module, EGR (Includes Item 36)	
35	70025155	1	Plug	
36	70005188	1	Control Valve	
36	70005189	1	Seal	
37	70004282	1	Manifold, Exhaust	
37	70025164	1	Gasket, Exhaust Manifold to Head	
38	70026995	1	Pipe (Not Shown - Located on Left Side)	
38	70021895	2	Gasket	
39	70004276	1	Turbocharger	
39	70024912	1	Gasket, Exhaust Manifold	
39	70024509	1	Gasket, Return Line	
40	70025477	1	Tensioner, Belt	
41	70024484	1	Idler Roller	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	70004277	1	Belt, Drive	
43	70024915	1	Starter	
43	70005647	1	Switch, Solenoid	
43	70005648	1	Relay	
44	70025533	1	Generator	
44	70025149	1	Regulator, Voltage	
45	70025077	1	Harness, Engine (Not Shown)	
46	70024918	1	Sender, Temperature	
47	70024504	1	Sensor, Pressure (Not Shown - Located on Right Side)	
47	70024920	1	O-Ring	
48	70026210	2	Sensor, Speed (Not Shown - Located Left Side Front and Flywheel Housing)	
48	70005191	2	O-Ring	
49	70024507	1	Sensor, Pressure (Not Shown - Located Top Rear)	
49	70025120	1	O-Ring	
50	70024922	1	Temperature, Transmitter	
50	70035212	1	O-Ring	
51	70025660	1	Screw	

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FIGURE 3-13. PUMP COUPLING KIT



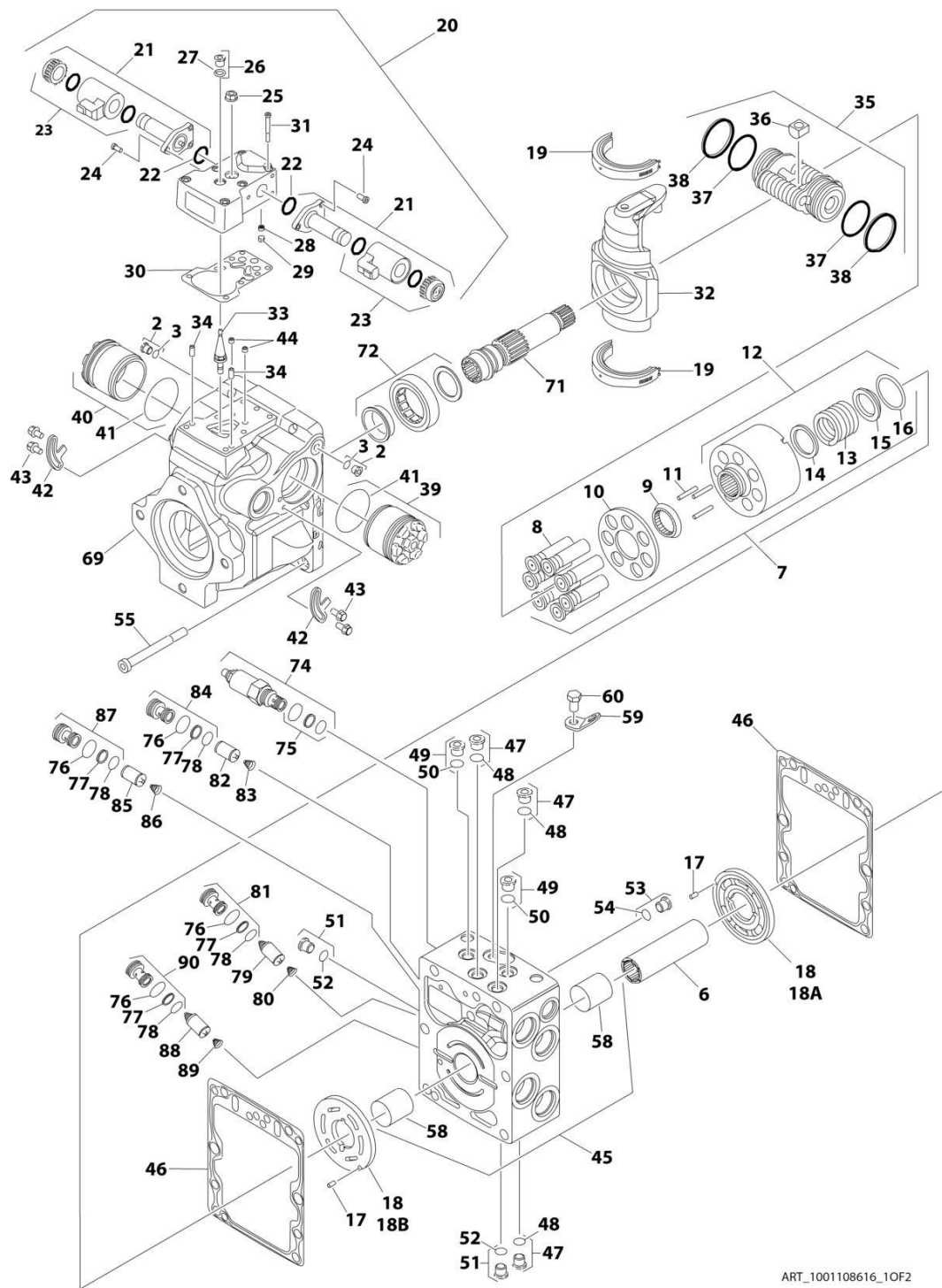
ART_2902065

FIGURE 3-13. PUMP COUPLING KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902065	Ref	PUMP COUPLING KIT	L
1	70000793	1	Coupling, Hayes	
2	See Note	NSS	Plate, Pump Adapter (Note: Use p/n 2902065)	
3	See Note	NSS	Bolt M10 x 30 Grade 10.9 (Note: Use p/n 2902065)	
4	See Note	NSS	Washer M10 (Note: Use p/n 2902065)	
6	See Note	NSS	Bolt M10 x 20 Grade 10.9 (Note: Use p/n 2902065)	

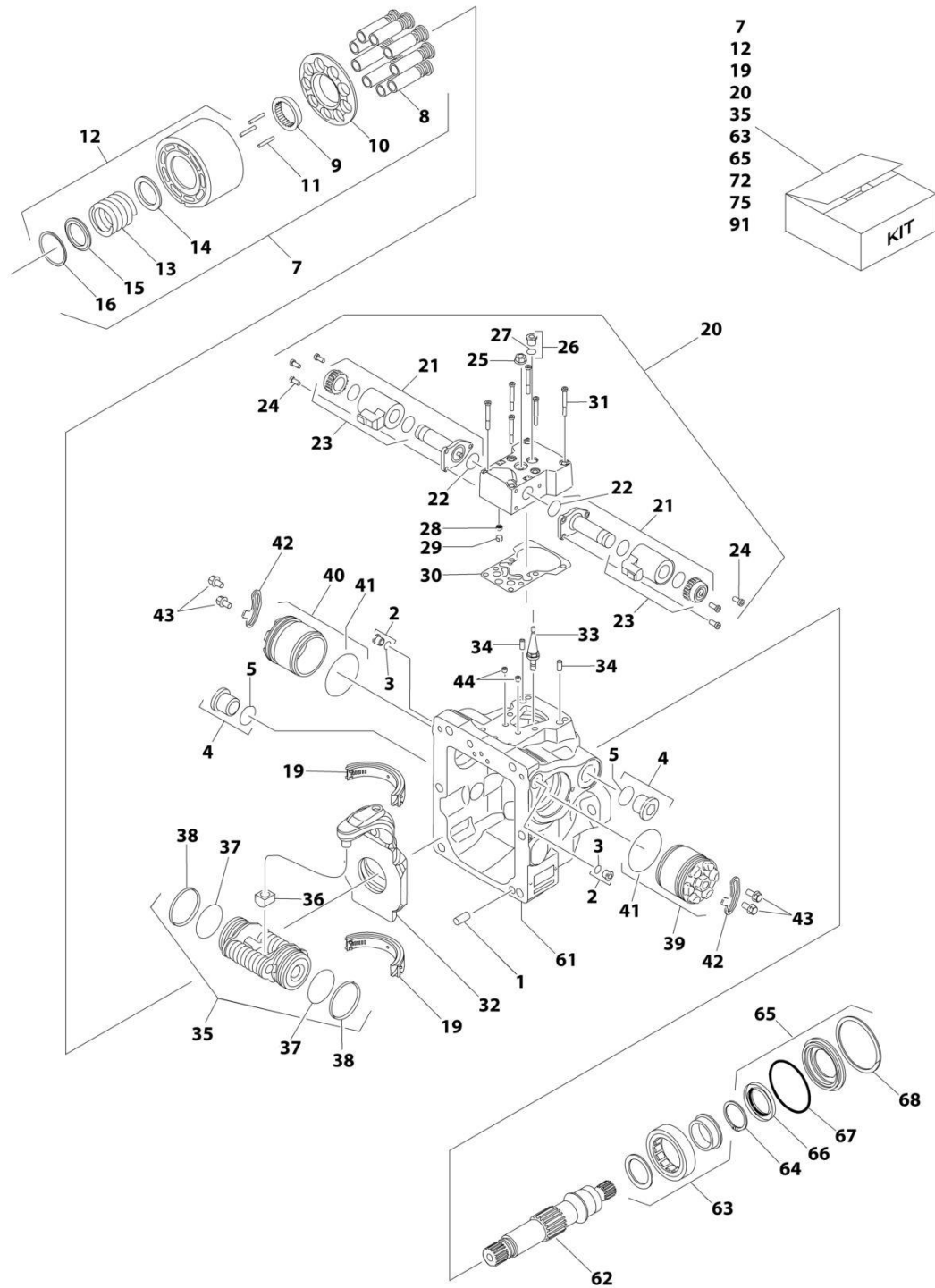
SECTION 3 - ENGINE

FIGURE 3-14. TANDEM PUMP ASSEMBLY



ART_1001108616_10F2

SECTION 3 - ENGINE



ART_1001108616_2OF2

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FIGURE 3-14. TANDEM PUMP ASSEMBLY

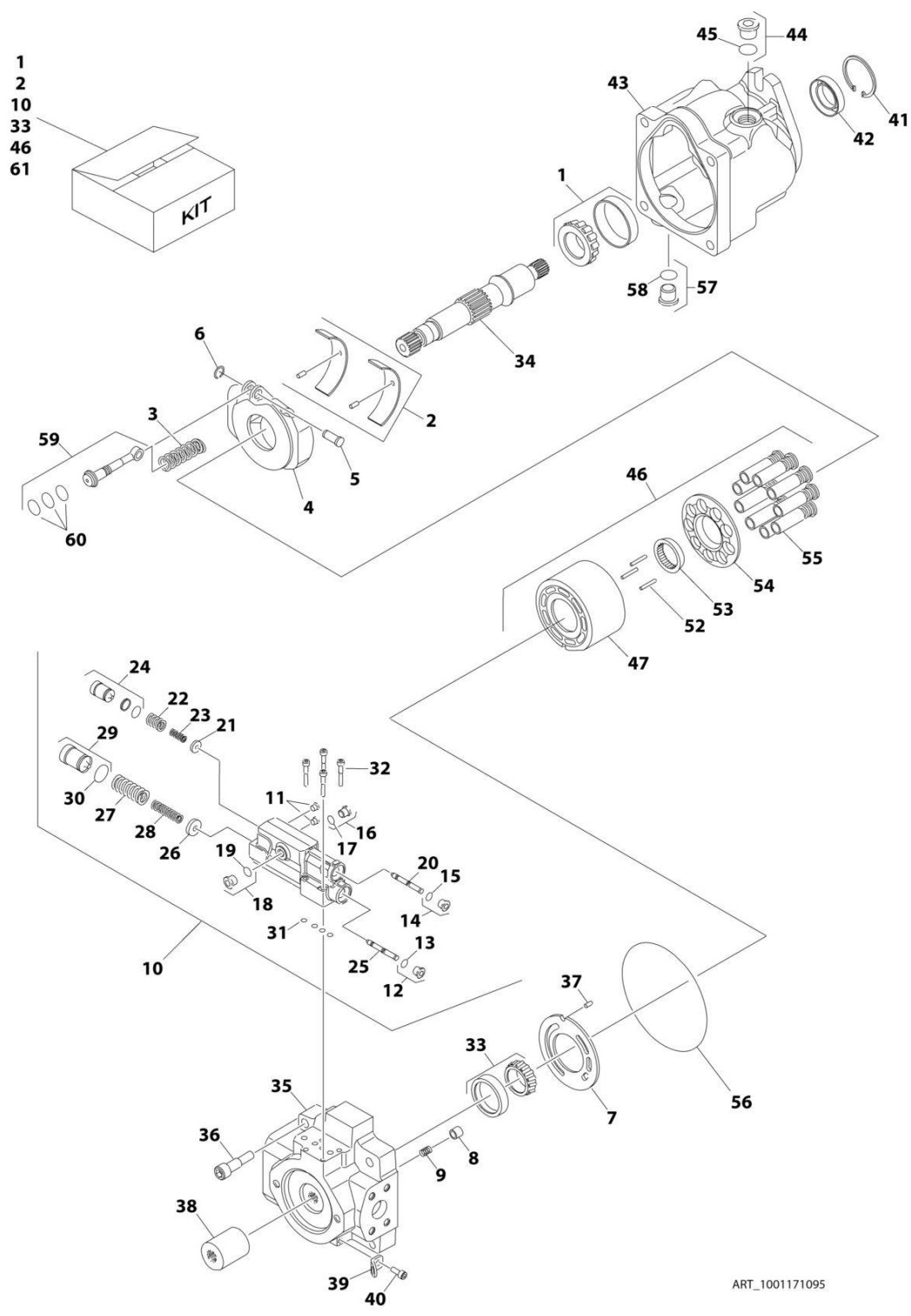
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108616	Ref	PUMP ASSEMBLY (SAUER TANDEM)	D
1	70002132	4	Pin	
2	70002133	4	Plug Assembly (Includes Item 3)	
3	7007207	4	O-Ring (Part of Item 2)	
4	7007419	2	Plug Assembly (Includes Item 5)	
5	7007418	2	O-Ring (Part of Item 4)	
6	70002600	1	Coupling	
7	70002135	2	Cylinder Block Kit (Each Kit Includes Qty 1 of Items 8-10 & 12-16 & Qty 3 of Item 11)	
8	70002136	2	Piston Assembly Kit (Includes Qty 9 Piston Assemblies) (Part of Item 7)	
9	70002137	2	Guide, Slipper Retainer (Part of Item 7)	
10	70002138	2	Retainer, Slipper (Part of Item 7)	
11	7021275	6	Pin, Slipper Retainer Holddown (Part of Item 7)	
12	70002135	2	Cylinder Block Assembly (Includes Qty 1 of Item 13-16) (Part of Item 7)	
13	70002139	2	Spring (Part of Item 12)	
14	70002140	2	Washer (Part of Item 12)	
15	70002141	2	Washer (Part of Item 12)	
16	70002142	2	Ring, Retaining (Part of Item 12)	
17	7007446	2	Pin	
18		Ref	Plate, Valve Options:	
18A	70002601	1	Plate, CW Valve	
18B	70002602	1	Plate, CCW Valve	
19	70002145	2	Swash Plate Bearing Kit (Includes Qty 2 Bearings)	
20	70002618	2	EDC Kit (Includes Items 21-31)	
21	70002619	4	Solenoid Valve Assembly (Includes Items 22 & 23) (Part of Item 20)	
22	70002148	4	O-Ring (2 Per EDC Assembly) (Part of Item 21)	
23	70002620	4	Coil, Nut and Seals Kit (2 Per EDC Assembly) (Part of Item 21)	
24	70002150	12	Screw (Part of Item 20)	
25	7022301	2	Nut, Seal (Part of Item 20)	
26	70002151	2	Plug Assembly (Part of Item 20) (Includes Item 27)	
27	7007207	2	O-Ring (Part of Item 26)	
28	70002134	2	Screen (Part of Item 20)	
29	70002153	2	Ring, Locking (Part of Item 20)	
30	70002154	2	Gasket, Control (Part of Item 20)	
31	70002156	12	Capscrew (Part of Item 20)	
32	70002152	2	Swash Plate	
33	70002155	2	Link, Swash Plate	
34	70002157	4	Pin, Dowel	
35	70002158	2	Servo Piston Assembly (Includes Items 36-38)	
36	70002159	2	Block, Slider (Part of Item 35)	
37	70002160	2	O-Ring (Part of Item 35)	
38	70002161	2	Ring, Piston (Part of Item 35)	
39	70002162	2	Cylinder, Servo	
40	70002162	2	Cylinder, Servo	
41	70002163	4	O-Ring	
42	70002164	4	Plate, Locking	
43	70002165	8	Screw	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	70002604	4	Orifice	
45	70002605	1	Center Section Assembly (Includes Item 58)	
46	70002168	2	Gasket, End Cap	
47	70001958	2	Plug Assembly (Includes Item 48)	
48	7021256	2	O-Ring (Part of Item 47)	
49	70001958	2	Plug Assembly (Includes Item 50)	
50	7021256	2	O-Ring (Part of Item 49)	
51	70001958	2	Plug Assembly (Includes Item 52)	
52	7021256	2	O-Ring (Part of Item 51)	
53	70001958	2	Plug Assembly (Includes Item 54)	
54	7021256	2	O-Ring (Part of Item 53)	
55	70002606	4	Capscrew	
58	70002607	2	Bearing, Journal (Part of Item 45)	
59	70002608	1	Bracket, Lifting	
60	70002609	1	Screw	
61	See Note	1	Housing (Note: Not Available for Purchase)	
62	70002175	1	Shaft	
63	70002610	1	Ball Bearing Kit	
	7007439	1	Ring, Retaining	
65	70002174	1	Shaft Seal Kit (Includes Items 66-68) (Note: This is a universal kit and will contain extra pieces that are not used on this pump assembly)	
66	70002177	1	Seal, Lip	
67	70002178	1	O-Ring	
68	70002179	1	Ring, Retaining	
69	See Note	1	Housing (Note: Not Available for Purchase)	
71	70002612	1	Shaft	
72	70002610	1	Ball Bearing Kit	
74	70002621	1	High Pressure Relief Valve Cartridge Assembly (Includes Item 75)	
75	70002622	1	Seal Kit - 70002621 Valve (Part of Item 74)	
76	7007415	1	O-Ring (Part of Items 81, 84, 87 & 90)	
77	7021293	1	Ring, Back-up (Part of Items 81, 84, 87 & 90)	
78	7022300	1	O-Ring (Part of Items 81, 84, 87 & 90)	
79	70002616	1	SCR Valve Assembly	
80	7024800	1	Spring	
81	7021265	1	Plug Assembly (Includes Qty 1 of Items 76-78)	
82	70002616	1	SCR Valve Assembly	
83	7024800	1	Spring	
84	7021265	1	Plug Assembly (Includes Qty 1 of Item 76-78)	
85	70002616	1	SCR Valve Assembly	
86	7024800	1	Spring	
87	70002617	1	Plug Assembly (Includes Qty 1 of Item 76-78)	
88	70002616	1	SCR Valve Assembly	
89	7024800	1	Spring	
90	7021265	1	Plug Assembly (Includes Qty 1 of Items 76-78)	
91	70002623	1	Overhaul Seal Kit (Includes Items 3, 5, 22, 27, 30, 37, 38, 41, 46, 48, 50, 52, 54, 66, 67, 75, 76, 77 & 78)	

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FIGURE 3-15. PISTON PUMP ASSEMBLY



ART_1001171095

FIGURE 3-15. PISTON PUMP ASSEMBLY

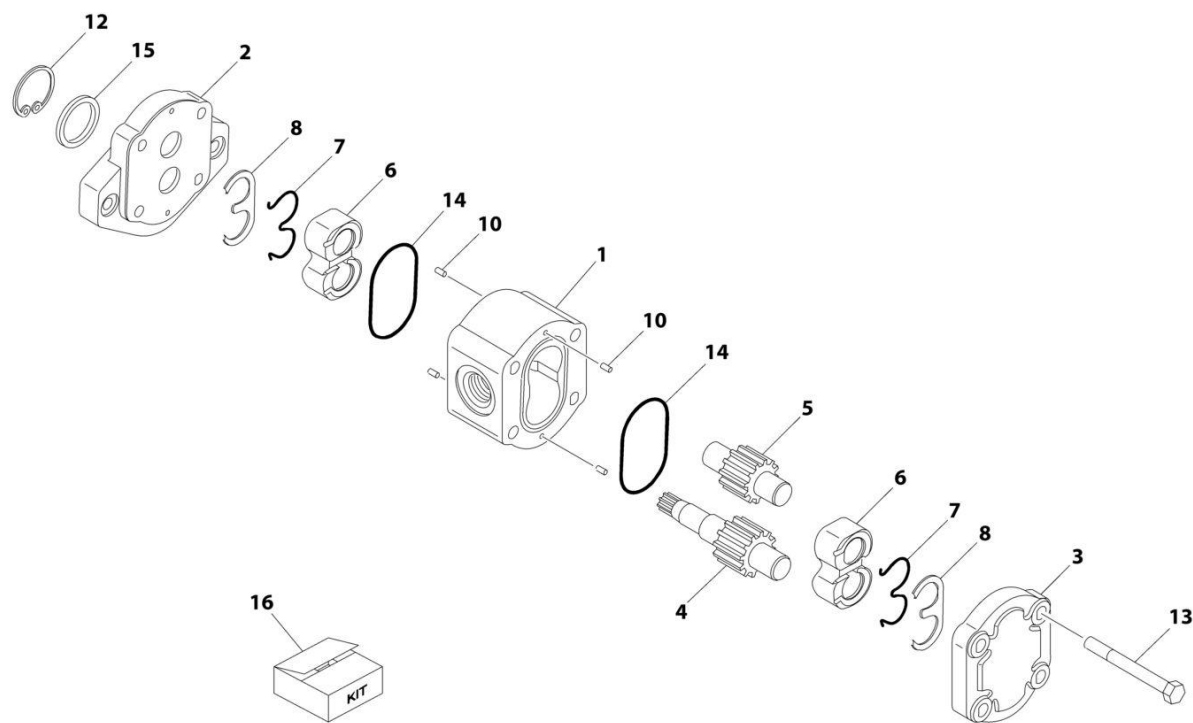
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171095	Ref	PUMP ASSEMBLY (SAUER PISTON)	B
1	70002578	1	Bearing Kit - Front (Includes Cup and Cone)	
2	70004426	1	Swash Plate Bearing Kit (Includes Qty 2 Bearings and Retainer Pins)	
3	70002580	1	Spring, Bias	
4	70004416	1	Swash Plate Assembly	
5	70002582	1	Shaft	
6	70002583	1	Ring, Retaining	
7	70004417	1	Plate, Valve	
8	70001956	1	Poppet, Check Valve	
9	70001955	1	Spring	
10	70022286	1	Control Kit (Includes Items 11-32)	
11	See Note	NSS	Setscrew (Note: Use Item 10)	
12	70002133	1	Plug Assembly (Includes Item 13)	
13	7007207	1	O-Ring (Part of Item 12)	
14	70002133	1	Plug Assembly (Part of Item 15)	
15	7007207	1	O-Ring (Part of Item 14)	
16	70002133	1	Plug Assembly (Includes Item 17)	
17	7007207	1	O-Ring (Part of Item 16)	
18	70002133	1	Plug Assembly (Includes Item 19)	
19	7007207	1	O-Ring (Part of Item 18)	
20	See Note	NSS	Spool (Note: Use Item 10)	
21	See Note	NSS	Guide, Spring LS (Note: Use Item 10)	
22	See Note	NSS	Spring, Outer LS (Note: Use Item 10)	
23	See Note	NSS	Spring, Inner LS (Note: Use Item 10)	
24	See Note	NSS	Plug, Adjusting LS (Note: Use Item 10 or 61)	
25	See Note	NSS	Spool, Control (Note: Use Item 10)	
26	See Note	NSS	Guide, Spring PC (Note: Use Item 10)	
27	See Note	NSS	Spring, Outer PC (Note: Use Item 10)	
28	See Note	NSS	Spring, Inner PC (Note: Use Item 10)	
29	See Note	NSS	Plug, Adjusting PC (Note: Use Item 10)	
30	See Note	NSS	O-Ring (Note: Use Item 10 or 61)	
31	See Note	NSS	Ring, Seal (Note: Use Item 10 or 61)	
32	See Note	NSS	Capscrew (Note: Use Item 10)	
33	70002585	1	Bearing Kit - Rear (Includes Cup and Cone)	
34	70002586	1	Shaft	
35	70004420	1	Cap, End	
36	70002588	4	Capscrew	
37	7007446	1	Pin, Slotted	
38	70002589	1	Coupling	
39	7022340	1	Bracket, Lifting	
40	70002590	1	Capscrew	
41	7023962	1	Ring, Retaining	
42	See Note	NSS	Seal, Lip (Note: Use Item 61)	
43	See Note	NSS	Housing (Note: Not Available for Purchase)	
44	7023964	1	Plug Assembly (Includes Item 45)	
45	7007415	1	O-Ring (Part of Item 44)	
46	70004423	1	Cylinder Block Kit (Includes Items 47-55)	
47	70004421	1	Cylinder	
52	7021275	3	Pin, Hold-down	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
53	70002592	1	Guide, Slipper Retainer	
54	70002593	1	Retainer, Slipper	
55	70004422	1	Piston Assembly	
56	See Note	NSS	Seal, End Cap (Note: Use Item 61)	
57	7023964	1	Plug, O-Ring (Includes Item 58)	
58	7007415	1	O-Ring (Part of Item 57)	
59	70005418	1	Servo Piston Assembly (Includes Item 60)	
60	See Note	NSS	Ring, Piston (Part of Item 59) (Note: Use Item 61)	
61	70002599	1	Complete Seal Kit (Includes Items 13, 15, 17, 19, 24, 30, 31, 42, 45, 56, 58 & 60)	

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FIGURE 3-16. GEAR PUMP ASSEMBLY



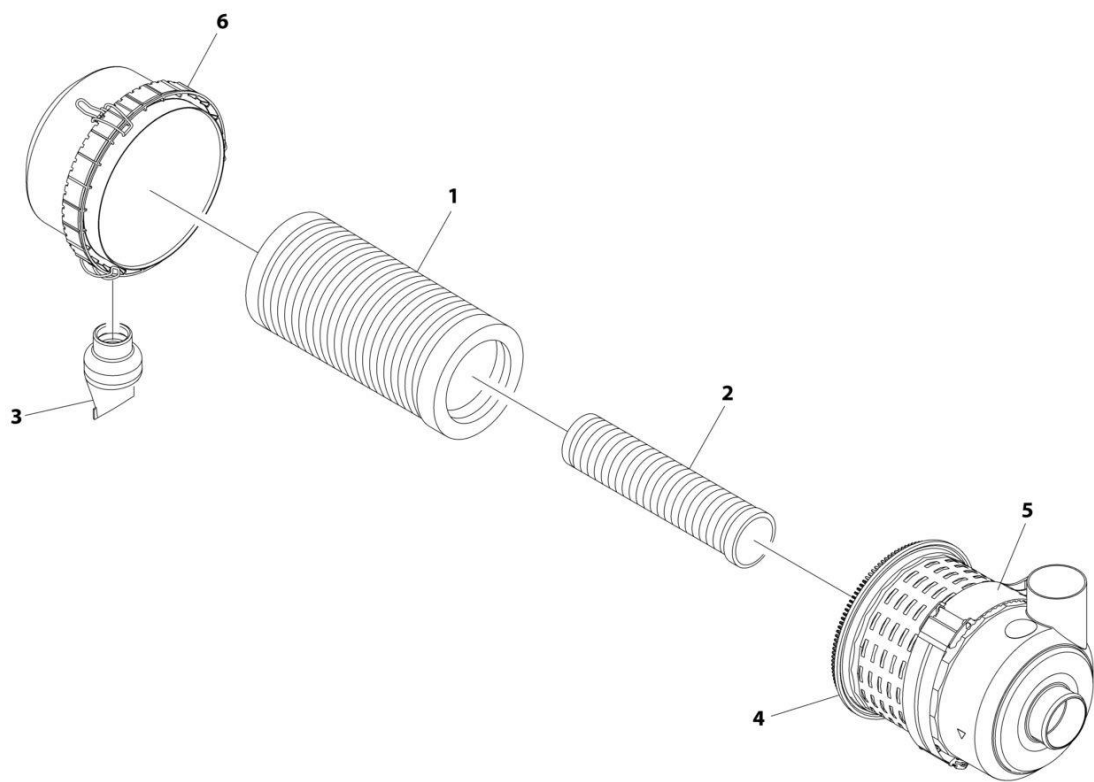
ART_1001112927

FIGURE 3-16. GEAR PUMP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112927	Ref	PUMP ASSEMBLY (SAUER GEAR)	A
1	See Note	NSS	Body (Note: Use p/n 1001112927)	
2	See Note	NSS	Cover, Front (Note: Use p/n 1001112927)	
3	See Note	NSS	Cover, Rear (Note: Use p/n 1001112927)	
4	See Note	NSS	Shaft, Gear (Note: Use p/n 1001112927)	
5	See Note	NSS	Gear, Idler (Note: Use p/n 1001112927)	
6	See Note	NSS	Block, Bearing (Note: Use p/n 1001112927)	
7	7007489	2	Ring, Anti-Extrusion	
8	7007489	2	Ring, Seal	
10	See Note	NSS	Pin, Dowel (Note: Use p/n 1001112927)	
12	70002576	1	Ring, Retaining	
13	See Note	NSS	Capscrew (Note: Use p/n 1001112927)	
14	7007489	2	O-Ring	
15	7007489	1	Seal, Lip	
16	7007489	1	Seal Kit - 1001112927 Pump (Includes Items 7, 8, 14 & 15)	

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FIGURE 3-17. AIR CLEANER ASSEMBLY



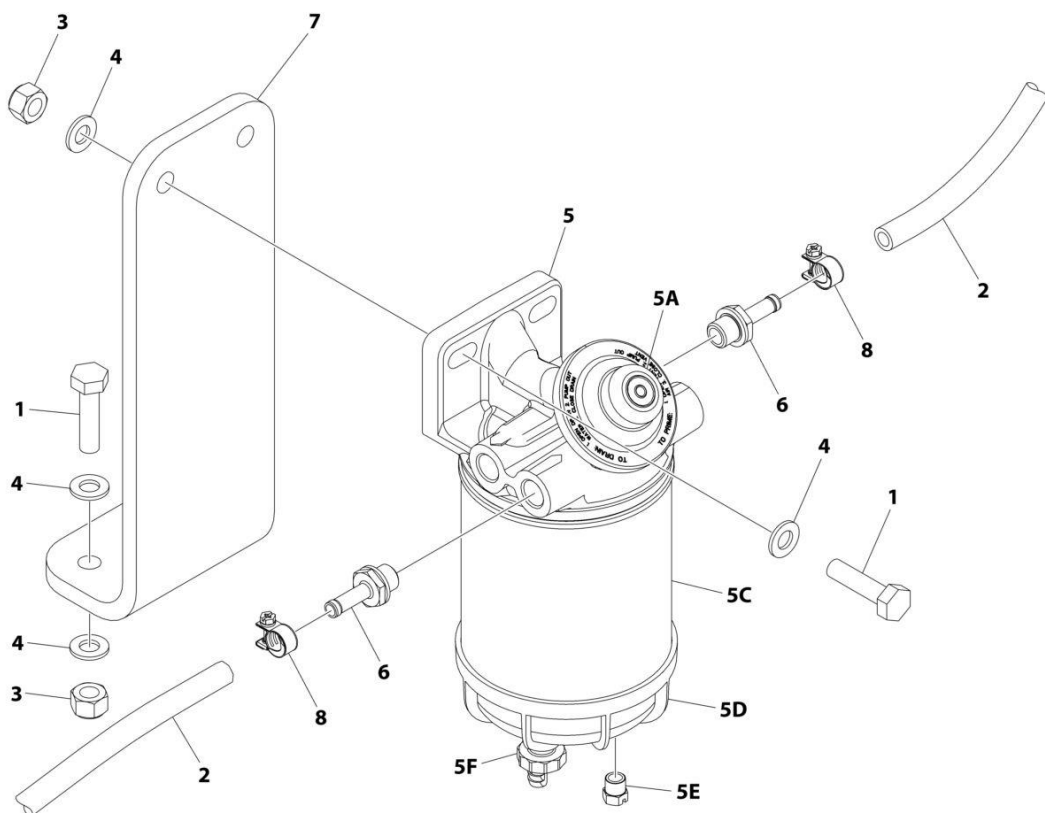
ART_1001142259_D

FIGURE 3-17. AIR CLEANER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142259	Ref	AIR CLEANER ASSEMBLY	D
1	70024190	1	Main Air Element	
2	70024191	1	Secondary Air Element	
3	70025249	1	Dust Valve	
4	70030962	1	Filter Housing (Includes Item 6)	
5	70030963	1	Bracket	
6	See Note	NSS	Cover with Clips (Note: Purchase Item 4)	

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FIGURE 3-18. FUEL FILTER INSTALLATION – DEUTZ TD2011 ENGINE (OPTIONAL)



ART_1001150091

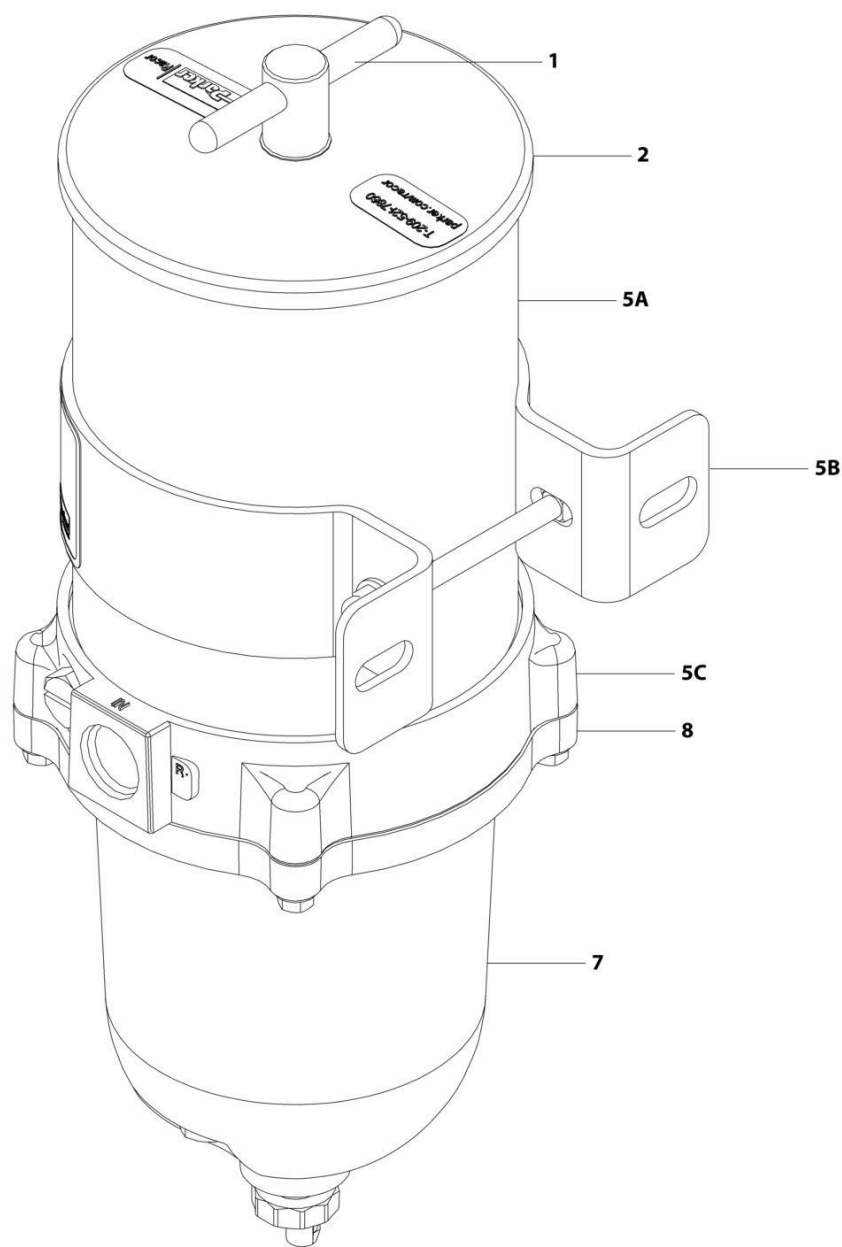
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FIGURE 3-18. FUEL FILTER INSTALLATION – DEUTZ TD2011 ENGINE (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150091	Ref	FUEL FILTER INSTALLATION – DEUTZ TD2011 ENGINE (OPTIONAL)	B
1	0761016	4	Bolt M10 x 40	
2	2720058	16.7 ft /5.1m	Hose Fuel Line	
3	3291005	4	Nut M10	
4	4812000	8	Washer M10	
5	1001149452	1	Fuel Filter/Water Separator Assembly	
5A	See Note	NSS	Indicator, Restriction (Note: Use p/n 1001149452)	
5B	70004064	1	Bypass Valve Kit (Not Shown)	
5C	70004065	1	Gasket, Head to Element	
5C	70004066	1	Element, Filter	
5D	70004067	1	Gasket, Element to Bowl	
5D	70004068	1	Bowl Kit (Includes Bowl, Element and Plug)	
5E	70004069	1	Plug	
5F	70004070	1	Drain	
6	1001149469	2	Fitting, Straight Barbed	
7	1001182727	1	Bracket	
8	1001174486	4	Clamp	

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FIGURE 3-19. FUEL FILTER ASSEMBLY (DEUTZ DT2.9L4 T4F)



ART_1001222817

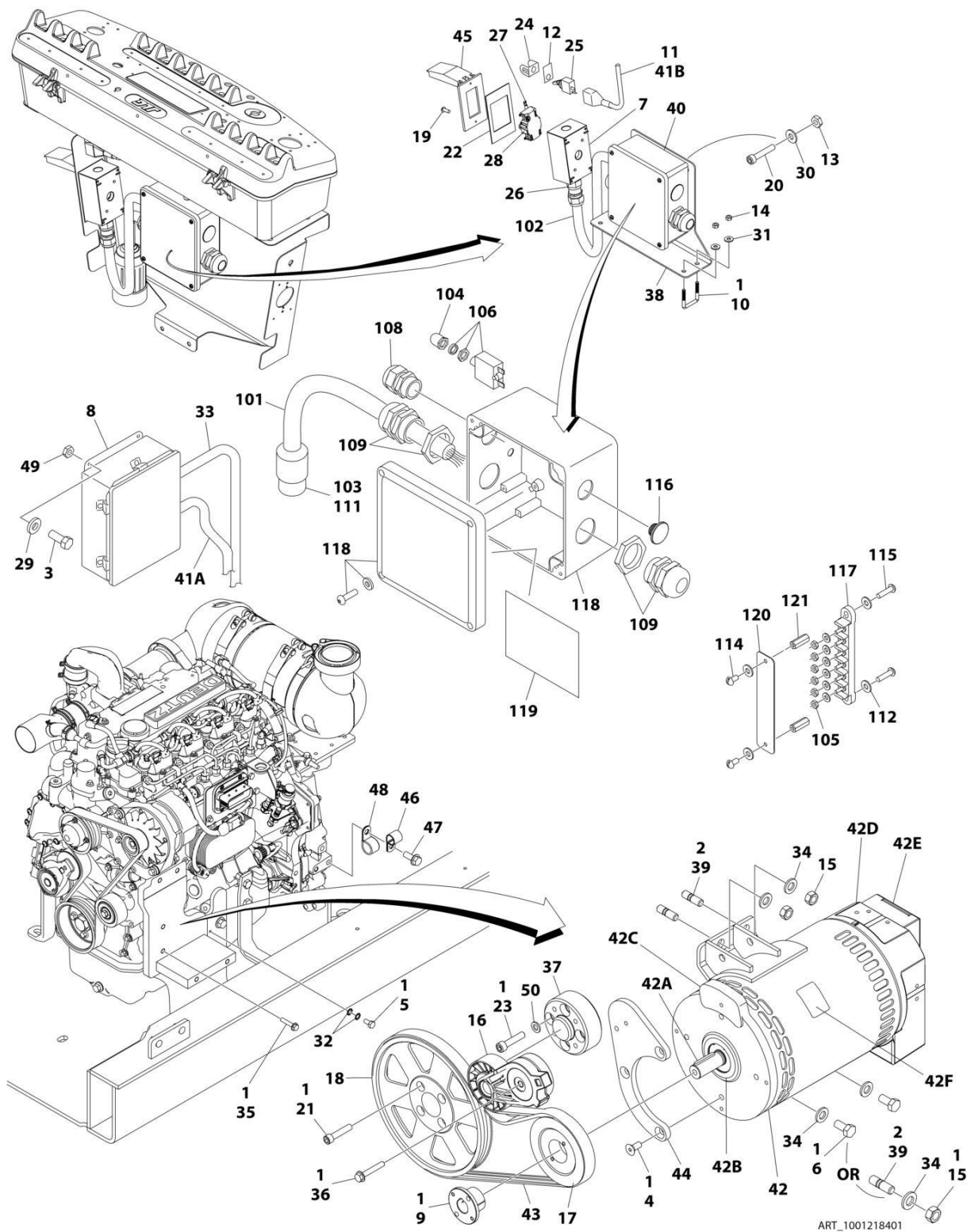
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FIGURE 3-19. FUEL FILTER ASSEMBLY (DEUTZ DT2.9L4 T4F)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222817	Ref	FUEL FILTER ASSEMBLY	A
1	70006403	1	Handle Kit (Includes Handle, Handle O-Ring & Lid Gasket)	
2	70006404	1	Lid Kit (Includes Lid, Handle O-Ring & Lid Gasket)	
3	70006405	1	Element, Filter (Not Shown)	
5A	See Note	NSS	Housing (Note: Use p/n 1001222817)	
5B	See Note	NSS	Bracket (Note: Use p/n 1001222817)	
5C	See Note	NSS	Tube, Return (Note: Use p/n 1001222817)	
6	70006407	1	Certrfuge & Baffle Kit (Not Shown - Located at Bottom of 5C) (Also Includes p/n 70006406 & Bowl Gasket)	
6	70006406	1	Checkball & Gasket Kit (Not Shown - Located at Bottom of 5C)	
7	70006409	1	Bowl Kit (Includes Bowl Gasket, Plug with O-Ring & Drain)	
7	70006408	1	Gasket, Bowl	
8	70006410	1	Bowl Ring Kit (Includes Bowl Gasket & Bolts)	

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FIGURE 3-20. 7500W SKYPOWER GENERATOR INSTALLATION - 60HZ/240V (DEUTZ TD2.9L4 T4F ENGINES) (OPTIONAL)



ART_1001218401

SECTION 3 - ENGINE

FIGURE 3-20. 7500W SKYPOWER GENERATOR INSTALLATION - 60HZ/240V (DEUTZ TD2.9L4 T4F ENGINES) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218401	Ref	7500W SKYPOWER GENERATOR INSTALLATION - 60HZ/240V (DEUTZ TD2.9L4 T4F ENGINES) (OPTIONAL)	D
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0760615	4	Bolt M6 x 35	
4	0741607	3	Screw 3/8 x 7/8	
5	0760606	1	Bolt M6 x 12	
6	0761212	2	Bolt M12 x 25	
7	0860038	1	Box, Receptacle	
8	0861538	1	Generator Control Box Assembly	
8	7024488	1	Card, Circuit - Generator Power (Not Shown)	
8	See Note	1	Fuse (Note: Not Available Purchase Locally)	
8	7024489	1	Card, Circuit - Control (Not Shown)	
		Ref	Note: When replacing card, rocker switch on card must be set for required application.	
8	70000619	1	Harness, Circuit Card	
9	0962520	1	Bushing, Taper	
10	1320302	2	Clamp	
11	2820031	1	Heat Shrink	
12	3251102	1	Nameplate - Generator	
13	3311005	4	Nut #10	
14	3311401	4	Nut 1/4	
15	3331211	AR	Nut M12	
16	3580317	1	Tensioner, Bolt	
17	3580318	1	Pulley, Generator	
18	3580320	1	Pulley, Engine	
19	3910606	4	Screw #6 x 3/8	
20	3931016	4	Capscrew #10 x 1	
21	3931628	4	Capscrew 3/8 x 1-3/4	
22	3960422	1	Gasket	
23	4032013	4	Capscrew M10 x 45	
23	4032014	4	Capscrew M10 x 50	
24	4060802	1	Guard, Switch	
25	4360336	1	Switch, Toggle	
26	4460071	1	Connector, Strain Relief	
27	4460315	2	Terminal	
28	4460346	1	Receptacle, Female	
29	4711400	4	Washer 1/4	
29	4811700	8	Washer M6	
30	4751000	4	Washer #10	
31	4751400	4	Washer 1/4	
32	4871700	2	Washer M6	
33	4922972	1	Generator Harness (See Separate Breakdown in ELECTRICAL Section)	
34	5241200	4	Washer M12	
35	5250816	2	Bolt M8 x 40	
36	5250818	1	Bolt M8 x 50	
37	1001135679	1	Adapter, Pulley	
38	1001141958	1	Bracket	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
39	1001155041	AR	Stud	C
40	1001157592	1	Junction Box Assembly (See Items 101-121 for Breakdown)	
41	1001157770	AR	Electrical Diagram Components (Not Shown)	
41A	1001119968	1	Generator Harness - 7500W SkyPower (60Hz/240V) (Deutz TD2.9L4 TF4 Engines) (Optional) (See Separate Breakdown in ELECTRICAL Section)	
41B	4922641	1	Switch Harness	
42	1001212223	1	Generator Assembly	
42	70001100	1	Rotor (Includes p/n 70001384 & 70000863) (Not Shown)	
42	70001384	1	Bearing, Shaft (Rear) (Not Shown)	
42	70000863	1	Fan, Generator (Not Shown)	
42	70006093	1	Stator (Not Shown)	
42	See Note	NSS	Stud 1/4 x 13-3/8 (Not Shown) (Note: Purchase Locally)	
42	70003631	1	Brushholder Assembly (Not Shown) (was p/n 7024484)	
42A	70004099	1	Key	
42B	70001966	1	Bearing, Ball Radial (Located in Belt Tensioner Endbell)	
42B	70003709	1	Ring, Retaining (Small)	
42B	70003708	1	Ring, Retaining (Large)	
42C	70004092	1	Endbell, Belt Tensioner	
42D	70004094	1	Endbell, Brush Block	
42E	70006094	1	Shroud Assembly	
42E	7027799	1	Block, Connector - 6 Position (Not Shown)	
42E	70002460	6	Nut, Brass (Attaches p/n 7027799 to Cover) (Not Shown)	
42E	70006095	1	Breaker, Circuit 30Amp (Not Shown)	
42E	70006096	1	Boot, Breaker (Not Shown)	
42E	See Note	NSS	Connector with Leads (Not Shown) (Note: Not Available for Purchase)	
42E	7026626	1	Connector with Pins (Not Shown)	
42E	70004098	1	Clamp, Cable (Not Shown)	
42E	70006097	1	Plate, End Panel (Not Shown)	
42E	70002291	1	Insulator, End Panel (Not Shown)	
42E	70001974	1	Decal - Terminal Connections (Not Shown)	
42F	70001973	1	Decal - Warning Moving Parts	
43	1001214683	1	V-Belt	
44	1001218447	1	Bracket	
45	1001110873	1	Cover, Receptacle	
46	1320061	1	Clamp	
47	5251012	1	Bolt M10 x 25	
48	7274000040	1	Clamp	
49	3290605	4	Nut	
50	4812000	4	Washer	
	1001157592	Ref	JUNCTION BOX ASSEMBLY	
101	1060343	1.5 ft/ 0.5m	Cable, Electrical 10/4	
102	1001179154	2.5 ft/ 0.8m	Cable, Electrical 12/3	
103	1671092	1	Cover	
104	3300396	1	Cover, Fuse	
105	3311001	6	Nut #10	
106	4360070	1	Circuit Breaker - 15Amp	
108	4460425	1	Strain Relief, Terminal	
109	4460426	2	Connector, Strain Relief	

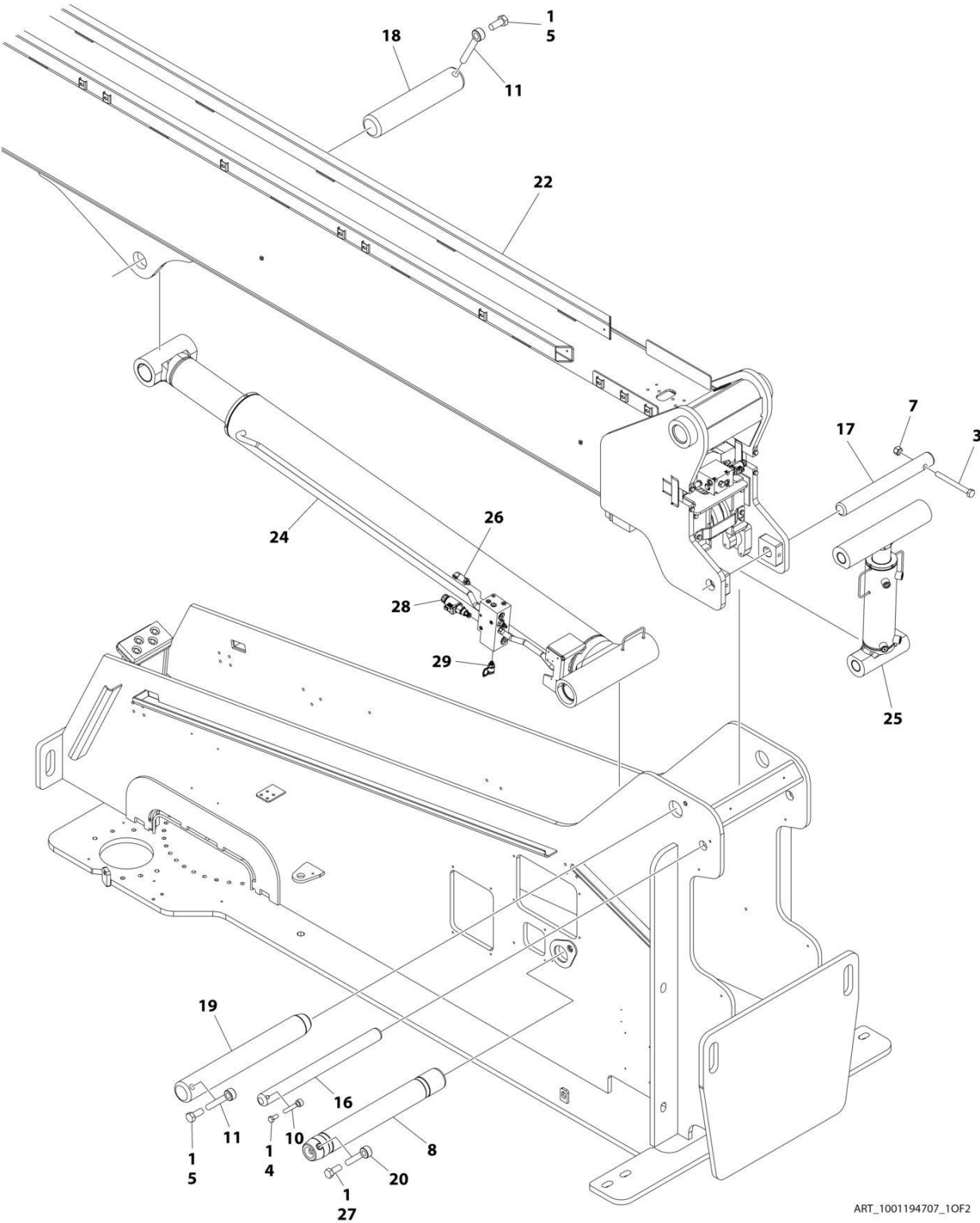
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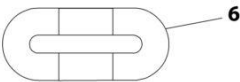
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
111	4460963	1	Connector	
112	4711000	10	Washer #10	
114	10702077	2	Screw #10 x 3/8	
115	10702082	2	Screw #10 x 3/4	
116	1001152525	1	Plug	
117	1001157520	1	Block, Terminal	
118	1001157521	1	Box, Junction	
119	1001157528	1	Decal - Wiring Schematic	
120	1001158007	1	Cover, PVC	
121	1001158008	2	Stand-Off	

SECTION 4 - BOOM

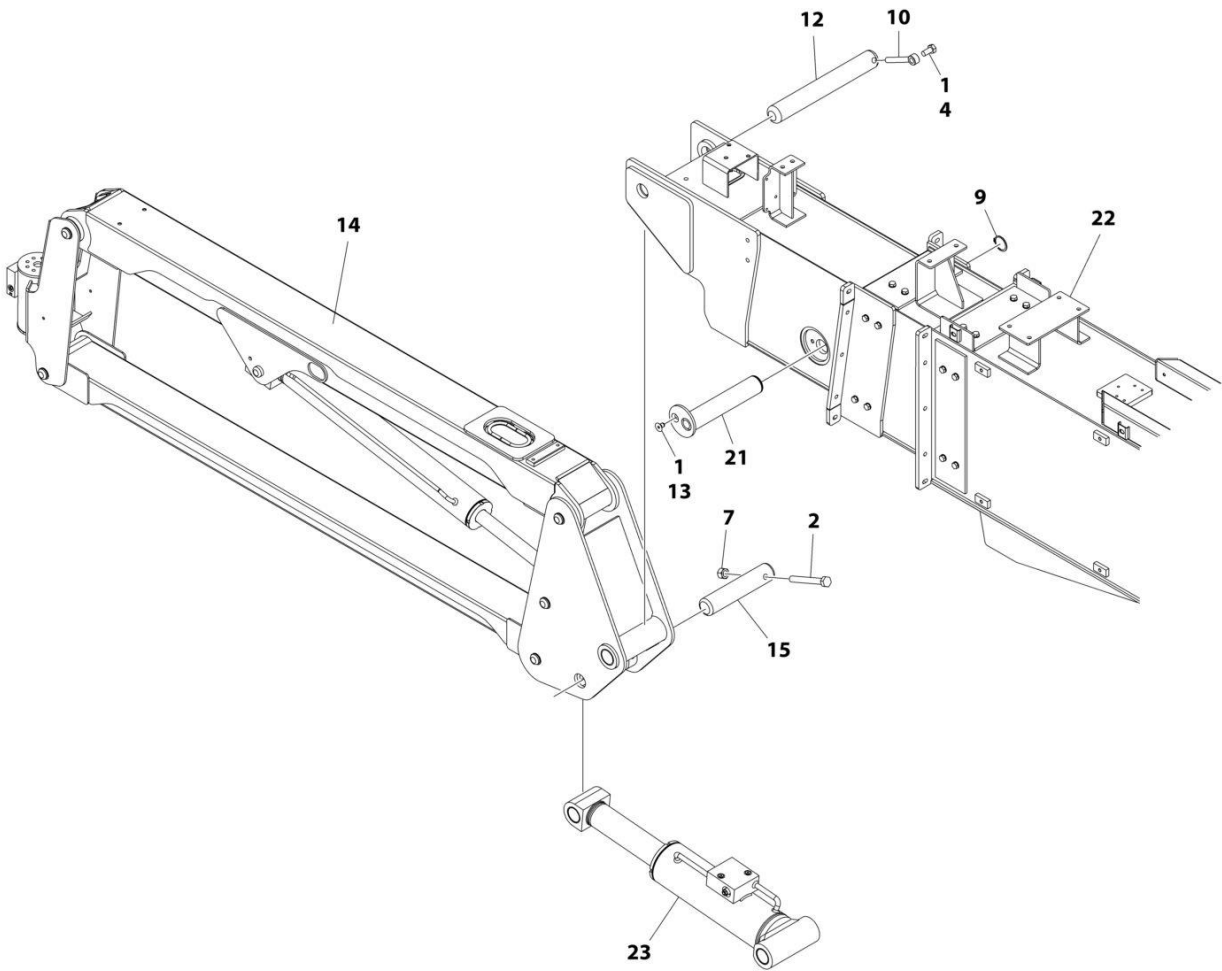
SECTION 4 - BOOM

FIGURE 4-1. BOOM INSTALLATION





DECALS LOCATED ON
BOTTOM PLATE OF MID BOOM



ART_1001194707_2OF2

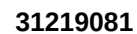
SECTION 4 - BOOM

FIGURE 4-1. BOOM INSTALLATION

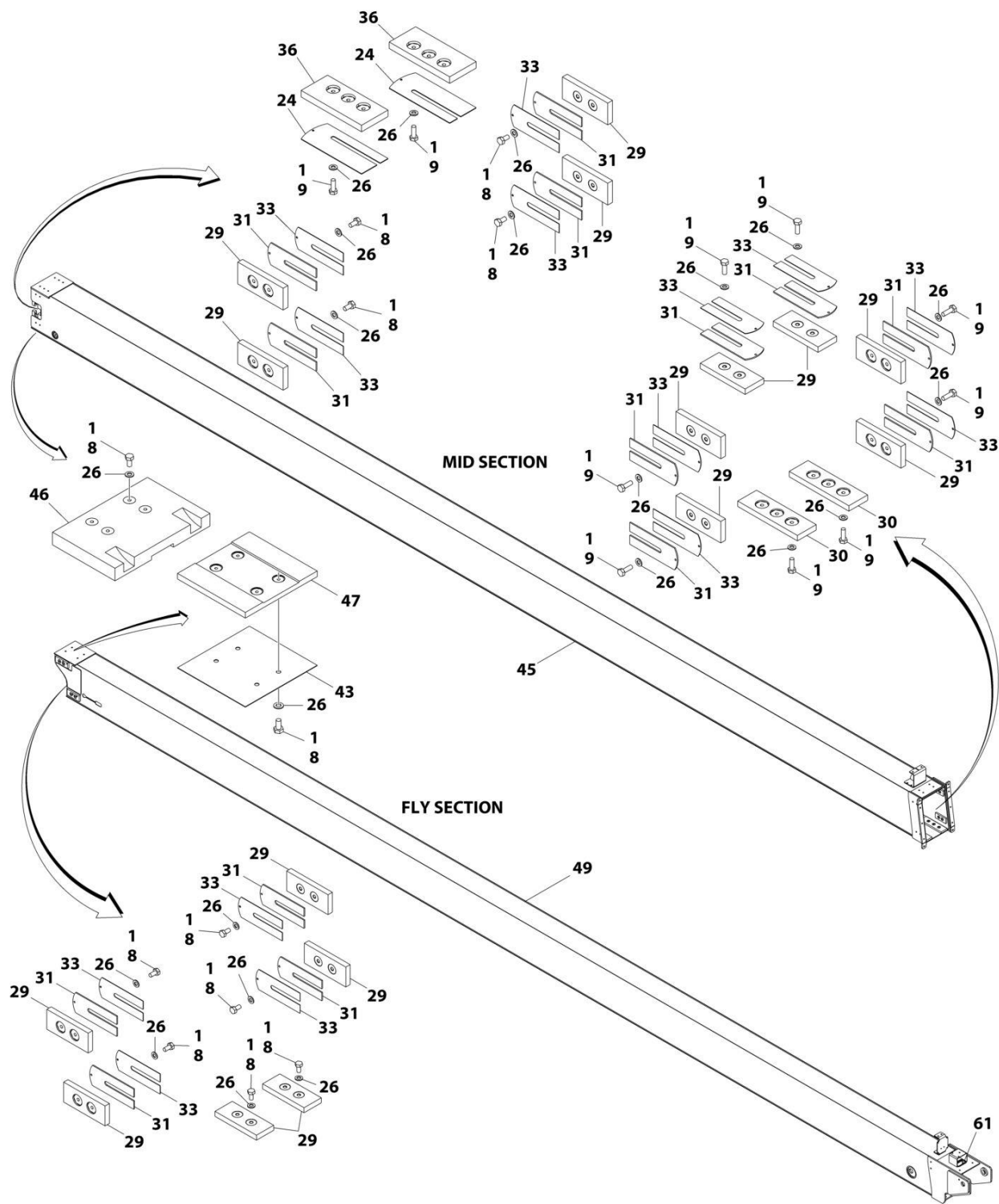
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194707	Ref	BOOM INSTALLATION	G
1	0100019	AR	Compound, Locking	
2	0701227	1	Bolt M12 x 100	
3	0701229	1	Bolt M12 x 120	
4	0761212	2	Bolt M12 x 25	
5	0762017	2	Bolt M20 x 45	
6	1705366	1	Decal - Boom Length	
7	3291205	2	Nut M12	
8	3423208	1	Pin	
9	3760233	1	Ring, Retaining	
10	3841203	2	Keeper, Pin	
11	3841287	2	Keeper, Pin	
12	1001116547	1	Pin	
13	1001137032	1	Screw M10 x 16	
14	1001150012	1	Jib Assembly (See Separate Breakdown in this Section)	
15	1001150470	1	Pin	
16	1001150471	1	Pin	
17	1001200794	1	Pin	
18	1001150473	1	Pin	
19	1001150474	1	Pin	
20	3841581	1	Keeper, Pin	
21	1001194694	1	Pin	
22	1001194708	1	Boom Assembly (See Separate Breakdown in this Section)	
23	1001195191	1	Level Cylinder Assembly - Platform Slave (See Separate Breakdown in CYLINDER Section)	
24	1001197797	1	Lift Cylinder - Boom (See Separate Breakdown in CYLINDER Section)	
25	1001197798	1	Master Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
26	1001199043	1	Sensor, Pressure Transducer	
27	0642214	1	Bolt 3/4 x 1-3/4	
28	1001218037	1	Proportional Valve Assembly	
28	70006003	1	Cartridge Less Coil	
28	70006005	1	Seal Kit - 70006003 Cartridge	
28	70006004	1	Coil	
28	70006006	1	Nut	
29	2221086	1	Fitting, Test	

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ART_1001194708_20F2

SECTION 4 - BOOM

FIGURE 4-2. BOOM ASSEMBLY

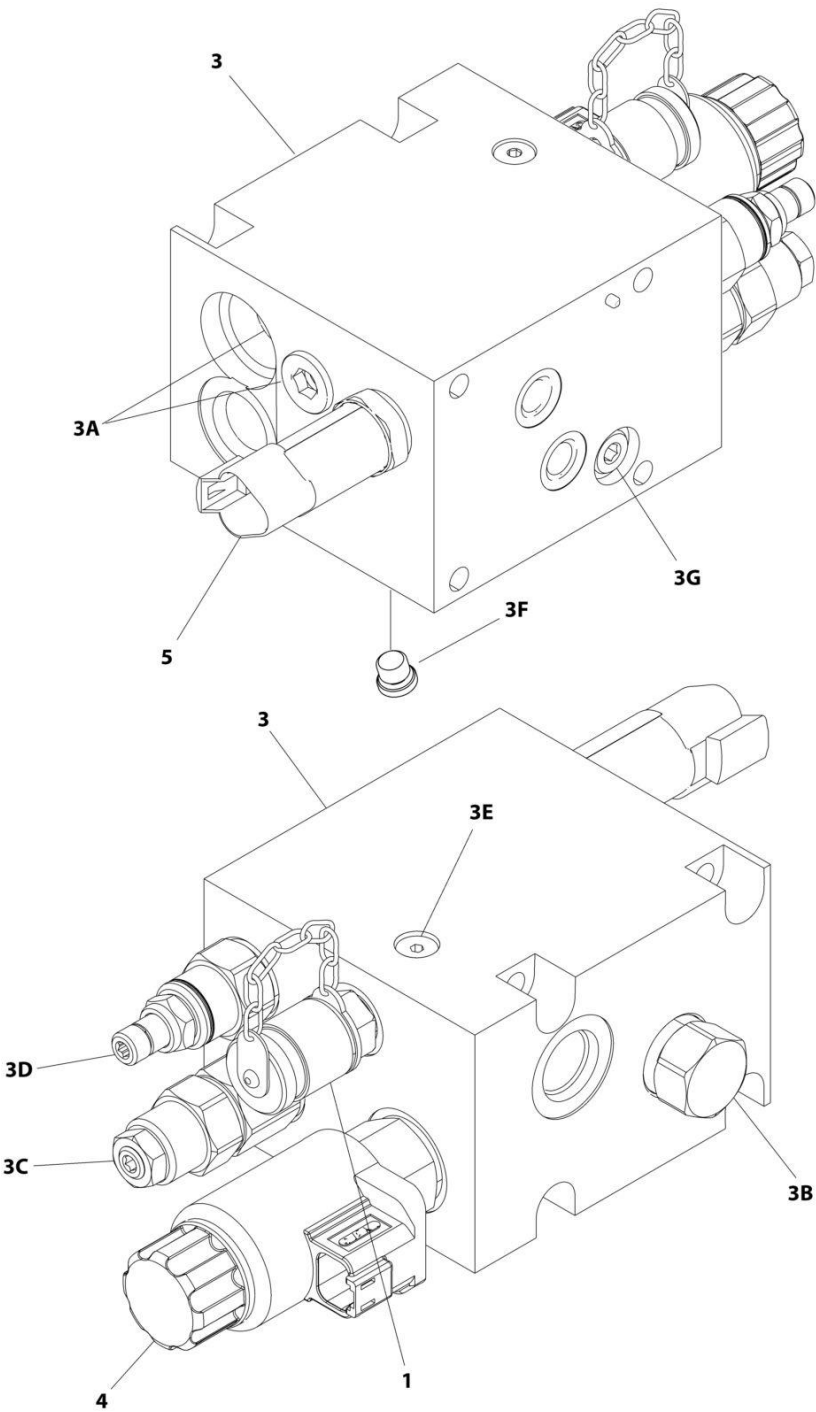
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194708	Ref	BOOM ASSEMBLY	N
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0561471	2	Block, Spacer	
4	0641608	4	Bolt 3/8 x 1	
5	0701031	4	Bolt M10 x 140	
6	0711018	2	Bolt M10 x 50	
7	0761009	4	Bolt M10 x 18	
8	0761010	28	Bolt M10 x 20	
9	0761014	36	Bolt M10 x 30	
11	0761018	6	Bolt M10 x 50	
12	0761019	12	Bolt M10 x 55	
13	0761027	4	Bolt M10 x 100	
14	0761618	2	Bolt M16 x 50	
15	0962297	2	Bushing	
16	1220078	2	Sheave, Block	
17	3020039	AR	Lubricant	
18	3272201	2	Nut 3/4	
19	3272401	1	Nut 7/8	
20	3282601	1	Nut 1	
21	3300241	2	Nut Nylon Collar Locking 3/4-10	
22	3300242	1	Nut Nylon Collar Locking 7/8-9	
23	3300459	1	Nut	
24	4071015	2	Shim, 16 Gauge	
25	4160197	1	Spring	
26	4812000	94	Washer M10	
27	4812300	2	Washer M16	
28	1001110853	2	Bolt M16 x 70	
29	1001118287	22	Pad, Wear	
30	1001136583	2	Pad, Wear	
31	1001136592	NLA	Shim, 11 Gauge (Use PN 4070898)	
31	4070898	20	Shim, 11 Gauge	
32	1001137032	3	Screw M10 x 16	
33	1001143713	NLA	Shim, 18 Gauge (Use PN 4070897)	
33	4070897	20	Shim, 18 Gauge	
34	1001146775	2	Sheave, Assembly	
34	0962404	2	Bushing, Bronze (1 Per Sheave)	
34	0962411	2	Bushing, Composite (1 Per Sheave)	
35	1001148011	2	Pad, Wear	
36	1001148012	2	Pad, Wear	
37	1001148420	2	Bar	
38	1001148421	2	Bar	
39	1001148576	2	Cover, Sheave	
40	1001148577	2	Block, Rope Retainer	
41	1001148578	2	Sleeve, Sheave	
42	1001194636	4	Shim, 14 Gauge	
43	1001194653	1	Shim, 16 Gauge	
44	1001194663	1	Cover	
45	1001194706	1	Boom, Mid	
46	1001194712	1	Pad, Wear	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	1001194715	1	Pad, Wear	
48	1001194717	1	Boom, Base	
49	1001194733	1	Boom, Fly	
50	1001232899	1	Telescope Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
51	1001194935	2	Sheave Assembly	
51	1001154294	1	Ring, Retaining (1 Per Sheave)	
51	1001154304	1	Bushing, Composite (1 Per Sheave)	
51	1001154306	1	Bushing, Bronze (1 Per Sheave)	
52	1001194937	1	Guard, Sheave	
53	1001194938	1	Block, Extent Rope	
54	1001194940	1	Pin	
55	1001194941	1	Rope, Extend	
56	1001194942	1	Rope, Extend	
57	1001194943	2	Rope, Retract	
58	1001195442	2	Washer	
59	1001216560	1	Support	
60	1001216835	1	Block	
61	4060807	8.3 in/ 21cm	Flex-Trim	
62	3020042	AR	Lubricant (Not Shown)	
63	1001221518	1	Telescope Valve Assembly (See Separate Breakdown in this Section)	
64	5240600	4	Washer M6	
65	5271723	4	Capscrew M6 x 100	
66	0761012	2	Bolt M10 x 25	
67	1001119057	2	Bolt M20 x 75	
69	5242000	2	Washer M20	
70	1001216555	1	Guide	
71	1001216832	1	Adjuster, Switch	
72	1001216836	1	Bracket	
73	1001220778	1	Spacer	
74	1001220779	1	Pad	
75	1001225343	4	Shim, 18 Gauge	

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FIGURE 4-3. TELESCOPE VALVE ASSEMBLY



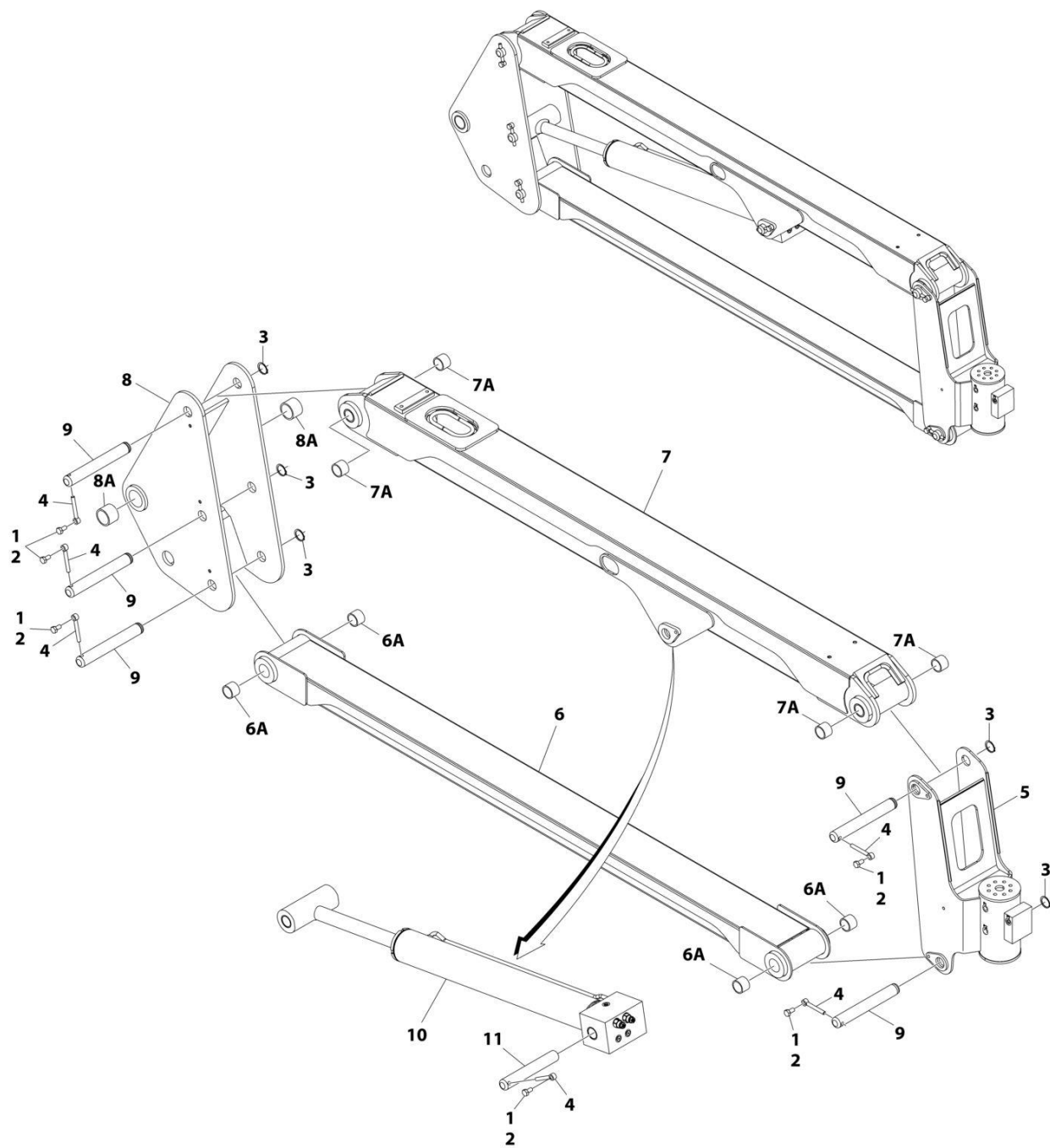
ART_1001221518

FIGURE 4-3. TELESCOPE VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221518	Ref	TELESCOPE VALVE ASSEMBLY	C
1	2221086	1	Fitting, Test	
3	1001226706	1	Load Holding Valve Manifold	
3A	70006282	1	Cartridge	
3A	7011346	1	Seal Kit - 70006282 Valve	
3B	70006098	1	Cartridge	
3B	70006099	1	Seal Kit - 70006098 Valve	
3C	70006283	1	Cartridge	
3C	2900700	1	Seal Kit - 70006283 Valve	
3D	70006101	1	Cartridge	
3D	70006102	1	Seal Kit - 70006101 Valve	
3E	2220881	1	Plug	
3F	2220883	1	Plug	
3G	2221337	1	Plug	
4	1001218037	1	Solenoid Valve	
4	70006003	1	Cartridge	
4	70006004	1	Coil	
4	70006005	1	Seal Kit - 70006003 Valve	
4	70006006	1	Nut	
5	1001199043	1	Sensor, Pressure Transducer	

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FIGURE 4-4. JIB ASSEMBLY



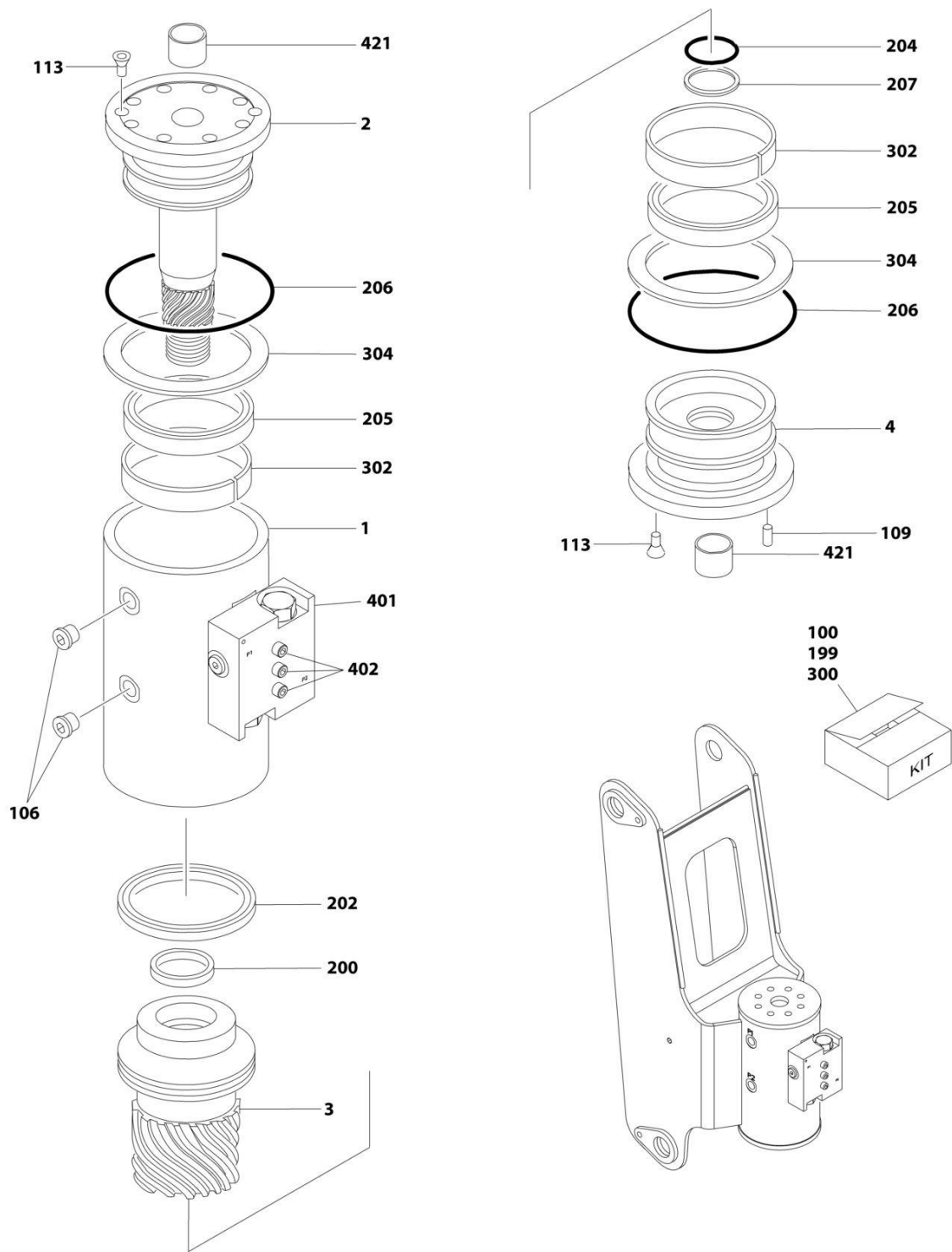
ART_1001150012

FIGURE 4-4. JIB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150012	Ref	JIB ASSEMBLY	B
1	0100011	AR	Compound, Locking	
2	0761010	6	Bolt M10 x 20	
3	3760133	5	Ring, Retaining	
4	3841143	6	Keeper, Pin	
5	1001148919	1	Platform Rotator Assembly (See Separate Breakdown in this Section)	
6	1001148930	1	Link, Lower Jib Assembly	
6A	0961951	4	Bushing	
7	1001148932	1	Link, Upper Jib Assembly	
7A	0961951	4	Bushing	
8	1001148953	1	Pivot, Jib Assembly	
8A	1001118665	2	Bushing	
9	1001149103	5	Pin, Nickel Plated	
10	1001149389	1	Lift Cylinder Assembly - Jib (See Separate Breakdown in CYLINDER Section)	
11	1001149903	1	Pin, Nickel Plated	

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FIGURE 4-5. PLATFORM ROTATOR ASSEMBLY



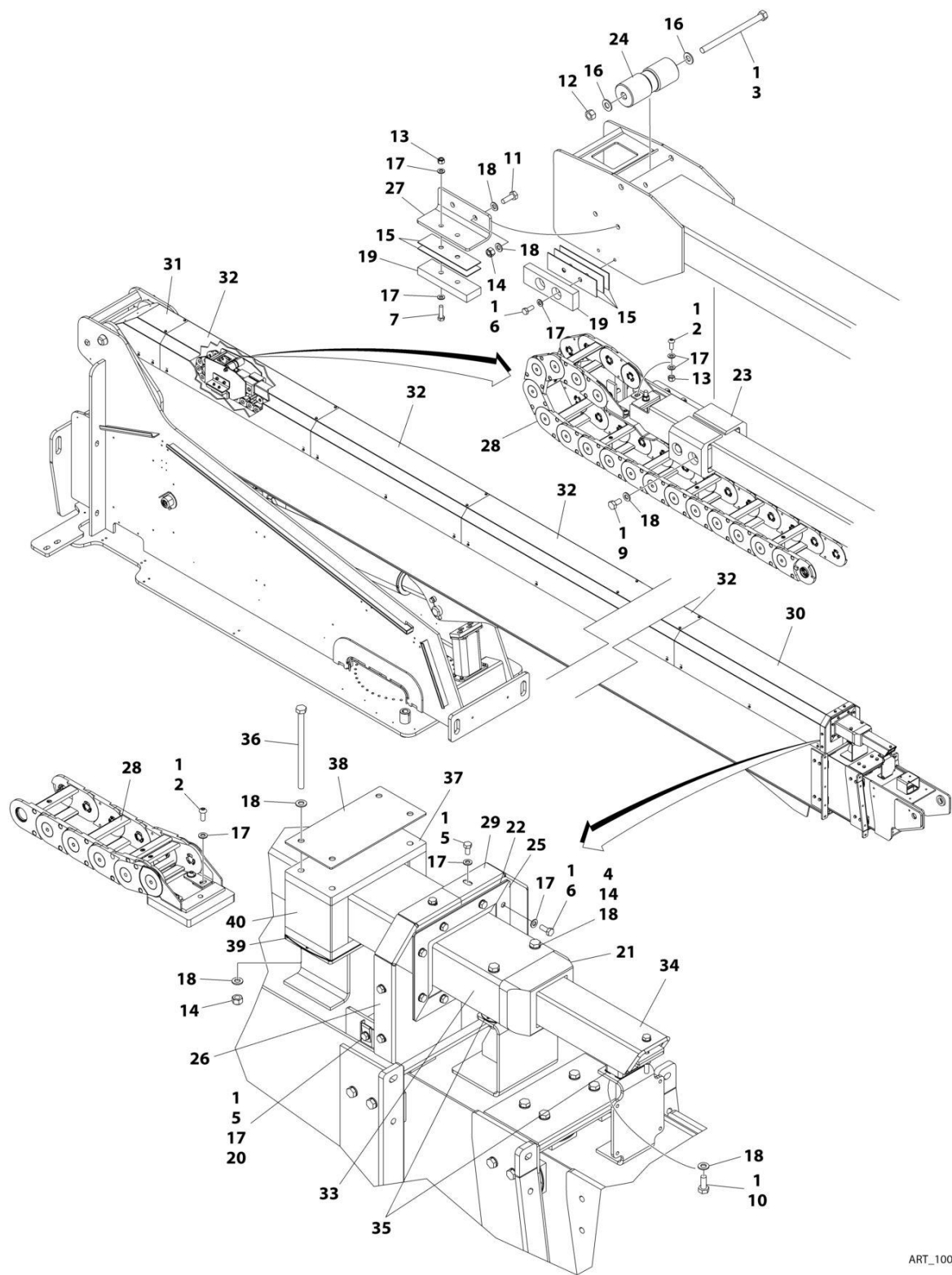
ART_1001148919

FIGURE 4-5. PLATFORM ROTATOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001148919	Ref	PLATFORM ROTATOR ASSEMBLY	G
1	See Note	NSS	Housing/Ring Gear (Note: Purchase Complete Assembly)	
2	70003948	1	Shaft	
3	7017163	1	Piston	
4	7017164	1	Cap	
100	7017142	1	Hardware Kit (Includes Items 106-109)	
106	See Note	NSS	Plug (Note: Use Item 100)	
109	See Note	NSS	Pin, Dowel (Note: Use Item 100)	
113	70001697	6	Screw 1/4 x 3/8	
199	70000342	1	Seal Kit - Low Temperature (Includes Items 200-207)	
200	See Note	NSS	T-Seal (Note: Use Item 199)	
202	See Note	NSS	T-Seal (Note: Use Item 199)	
204	See Note	NSS	O-Ring (Note: Use Item 199)	
205	See Note	NSS	Seal (Note: Use Item 199)	
206	See Note	NSS	O-Ring (Note: Use Item 199)	
207	See Note	1	Ring, Back-up (Note: Use Item 199)	
300	7017159	1	Bearing Kit (Includes Items 302-304)	
302	See Note	NSS	Bearing (Note: Use Item 300)	
304	See Note	NSS	Washer, Thrust (Note: Use Item 300)	
401	7017172	1	Valve, Control (Note: Sold as Assembly Only)	
401	7017192	2	Cartridge, Valve - Counterbalance (Seal Kit Not Available)	
401	See Note	1	Cartridge, Valve - Check (Seal Kit Not Available) (Note: Use p/n 7017172)	
402	See Note	NSS	Bolt 1/4 x 1-1/2 Grade 8 (Note: Purchase Locally)	
421	7017195	2	Bushing	

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FIGURE 4-6. POWER TRACK INSTALLATION



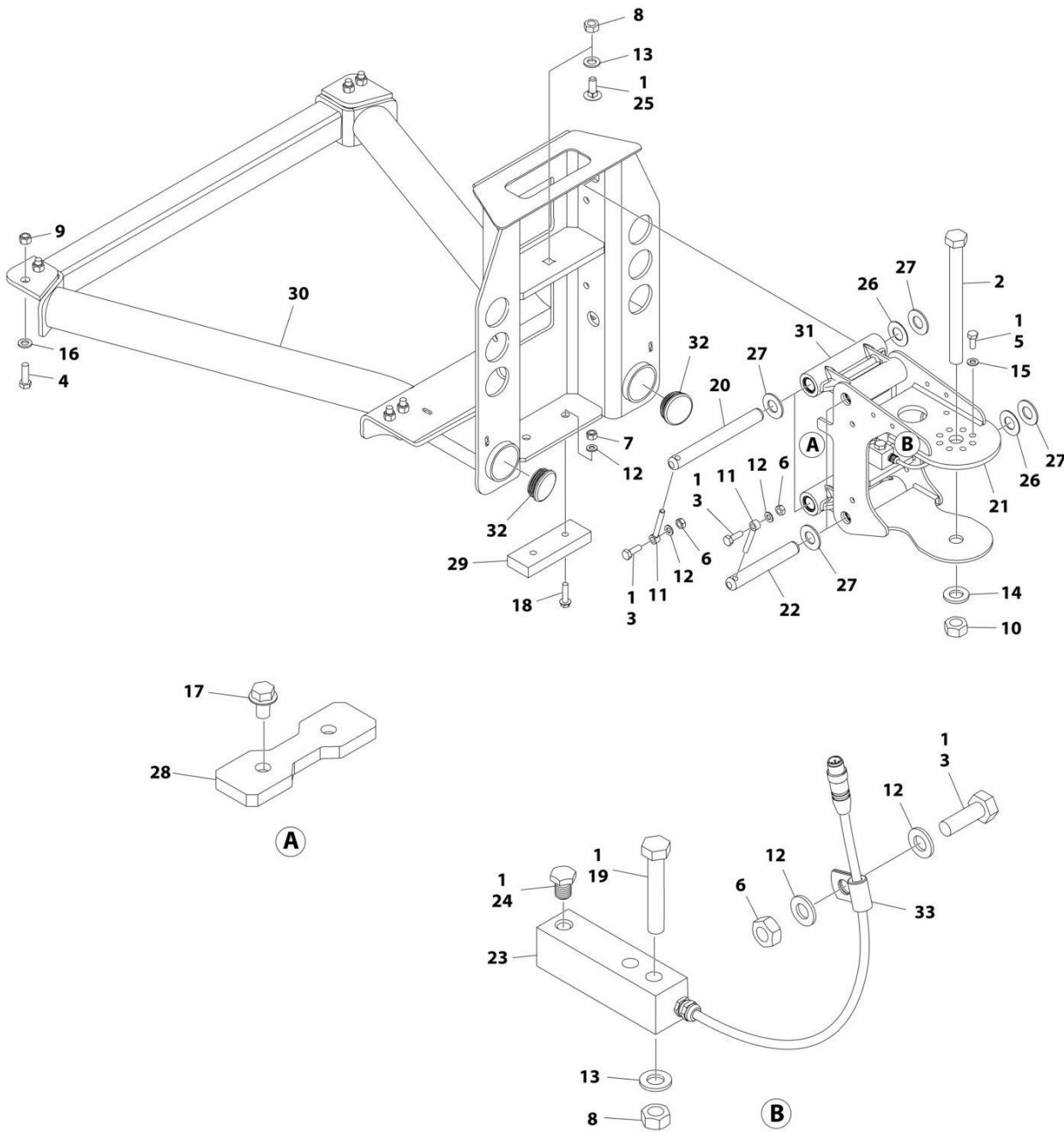
ART_1001194506

FIGURE 4-6. POWER TRACK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194506	Ref	POWER TRACK INSTALLATION	G
1	0100019	AR	Compound, Locking	
2	0630612	8	Screw M8 x 20	
3	0641858	1	Bolt 1/2 x 7-1/4	
4	0701030	2	Bolt M10 x 130	
5	0760808	66	Bolt M8 x 16	
6	0760810	12	Bolt M8 x 20	
7	0760814	4	Bolt M8 x 30	
9	0761010	4	Bolt M10 x 20	
10	0761012	2	Bolt M10 x 25	
11	0761014	4	Bolt M10 x 30	
12	3271805	1	Nut 1/2	
13	3290805	8	Nut M8	
14	3291005	10	Nut M10	
15	4070895	10	Shim, 16 Gauge	
16	4711800	2	Washer 1/2	
17	4811900	94	Washer M8	
18	4812000	26	Washer M10	
19	1001148650	4	Pad, Wear	
20	1001149160	60	Nut, Tinnerman M8	
21	1001194134	2	Pad, Wear	
22	1001194136	2	Wiper	
23	1001194137	2	Pad, Wear	
24	1001194138	1	Roller	
25	1001194525	2	Bracket	
26	1001216208	1	Cover, Front (RH)	
27	1001194528	2	Bracket	
28	1001194548	1	Power Track Assembly	
28	70005824	AR	Repair Section Kit	
28	70005825	1	Mounting Kit	
29	1001216207	1	Cover, Front (LH)	
30	1001194550	1	Cover, Track (Front)	
31	1001194564	1	Cover, Track (Rear)	
32	1001194566	6	Cover, Track (Mid)	
33	1001194568	1	Tube, Push (Mid Boom)	
34	1001194582	1	Tube, Push (Fly Boom)	
35	1001198229	6	Shim, 1mm	
36	0701034	4	Bolt M10 x 170	
37	1001194133	2	Pad, Wear	
38	1001197717	1	Plate	
39	1001216206	4	Shim, 1mm	
40	1001217028	2	Pad, Wear	

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FIGURE 4-7. PLATFORM SUPPORT INSTALLATION



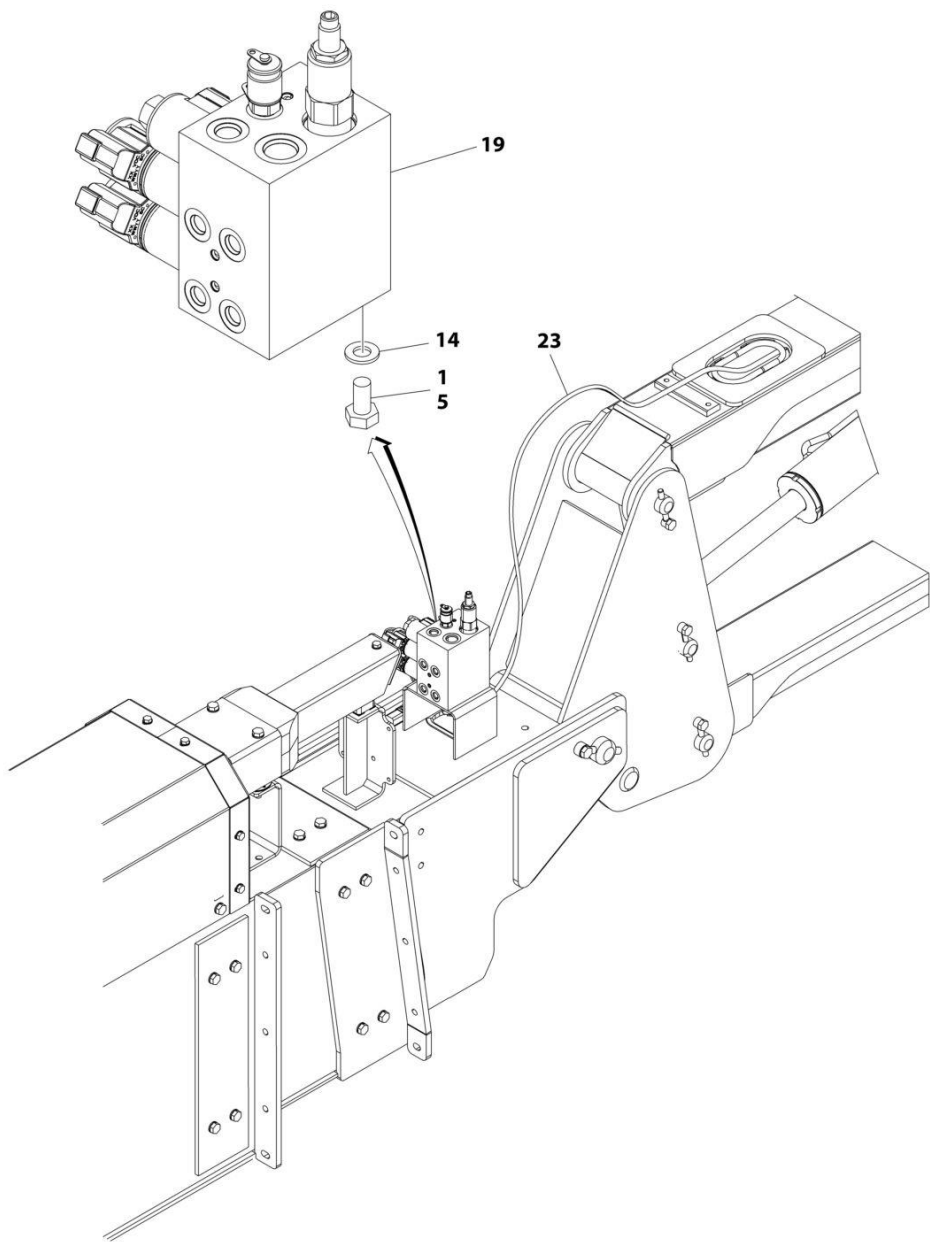
ART_1001215258_H

FIGURE 4-7. PLATFORM SUPPORT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215258	Ref	PLATFORM SUPPORT INSTALLATION	H
1	0100011	AR	Compound, Locking	
2	0712445001	1	Bolt M24 x 280	
3	0761014	5	Bolt M10 x 30	
4	0761216	8	Bolt M12 x 40	
5	0771012	8	Bolt M10 x 25	
6	3291001	5	Nut M10	
7	3291005	2	Nut M10	
8	3291201	3	Nut M12	
9	3291205	8	Nut M12	
10	3332415001	1	Nut M24	
11	3841143	4	Keeper	
12	4812000	8	Washer M10	
13	4812100	3	Washer M12	
14	5242400001	1	Washer M24	
15	5241000	8	Washer M10	
16	5241200	8	Washer M12	
17	5251008	2	Bolt M10 x 16	
18	5251016	2	Bolt M10 x 40	
19	1001098828	2	Bolt M12 x 70	
20	1001167565	2	Pin	
21	1001217917	1	Support, Rotary Side	
22	1001168402	2	Pin	
23	1001247468	1	Gauge, Load Sensing	
24	1001188622	1	Screw	
25	1001188844	1	Bolt M12 x 35	
26	1001189001	4	Bearing	
27	1001189002	8	Bearing	
28	1001190985	1	Wear Pad	
29	1001200491	1	Plate	
30	1001200494	1	Support	
31	1001201351	2	Link, LSS Assembly	
31	1001187382	4	Bearing	
31	1001187383	4	Seal	
32	1001204725	2	Plug	
33	91203039	1	Clamp	

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FIGURE 4-8. VALVE INSTALLATION - BOOM (2WD/2WS)



ART_1001223984_3OF3

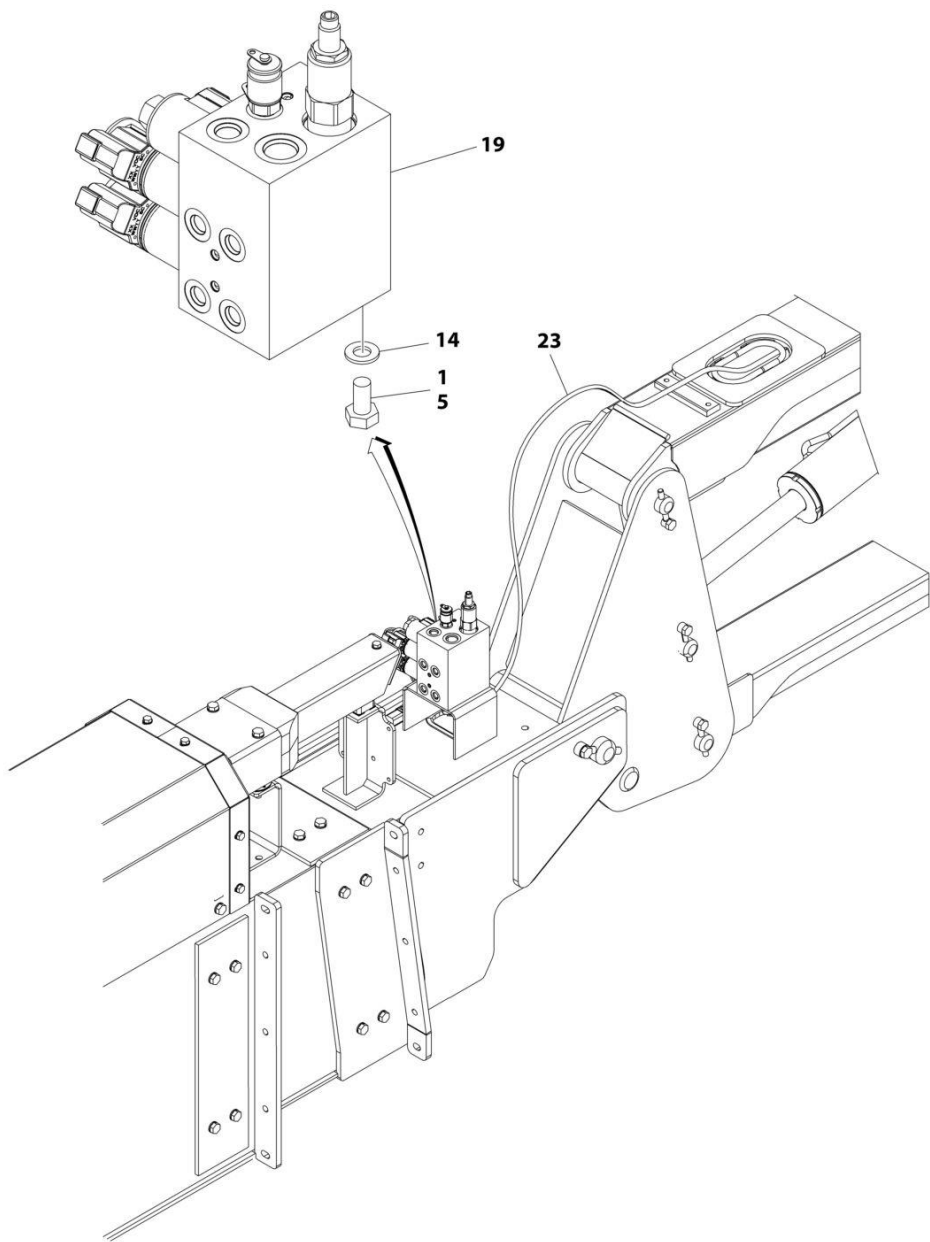
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FIGURE 4-8. VALVE INSTALLATION - BOOM (2WD/2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223984	Ref	VALVE INSTALLATION - BOOM - WITH 2WD/2WS	B
1	0100011	AR	Compound, Locking	
5	0761010	3	Bolt M10 x 20	
14	4812000	3	Washer M10	
19	1001151500	1	Jib and Platform Rotate Valve Assembly (See Separate Breakdown in this Section)	
23	1001231797	1	Platform Valve Harness (See Separate Breakdown in ELECTRICAL Section)	

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FIGURE 4-9. VALVE INSTALLATION - BOOM (4WD/2WS)



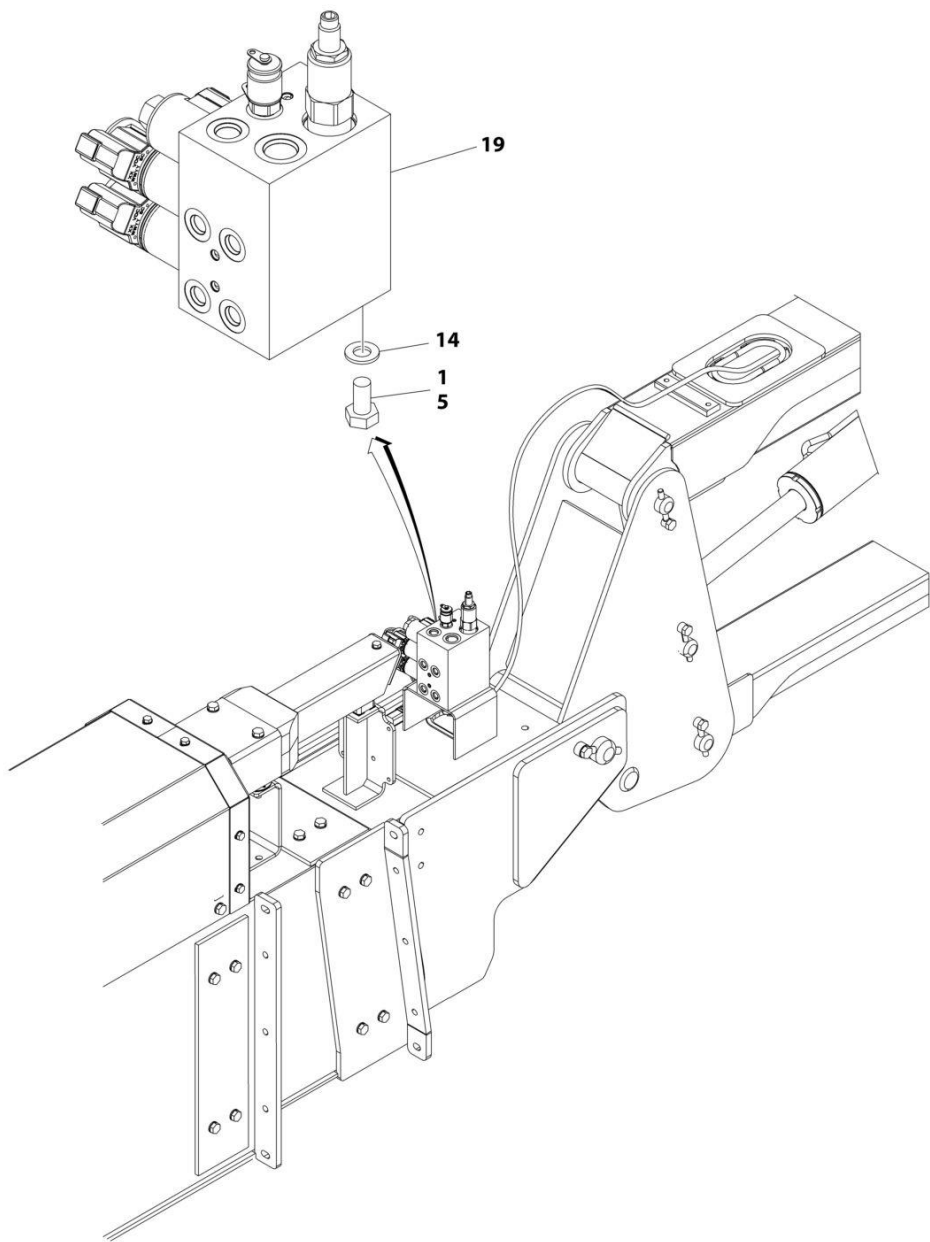
ART_1001223931_3OF3

FIGURE 4-9. VALVE INSTALLATION - BOOM (4WD/2WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223931	Ref	VALVE INSTALLATION - BOOM (WITH 4WD/2WS)	B
1	0100011	AR	Compound, Locking	
5	0761010	3	Bolt M10 x 20	
14	4812000	3	Washer M10	
19	1001151500	1	Jib and Platform Rotate Valve Assembly (See Separate Breakdown in this Section)	
23	1001231797	1	Platform Valve Harness (See Separate Breakdown in ELECTRICAL Section)	

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FIGURE 4-10. VALVE INSTALLATION - BOOM (4WD/4WS)



ART_1001223890_3OF3

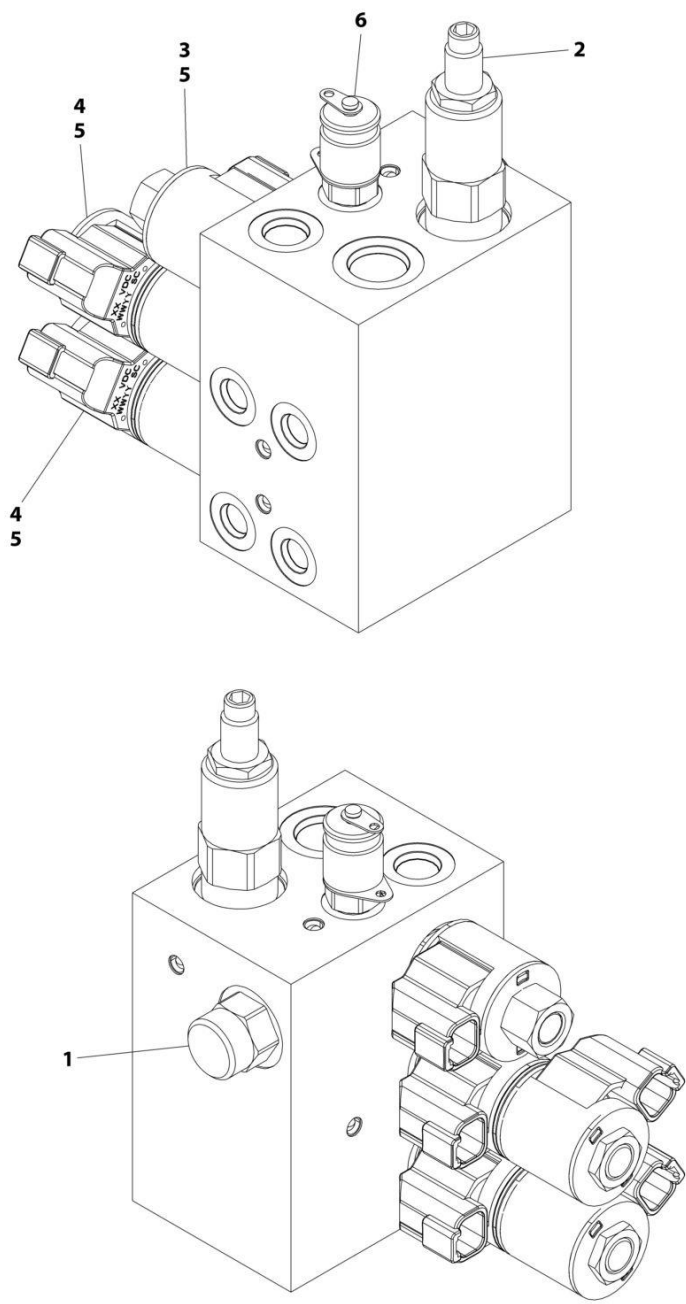
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FIGURE 4-10. VALVE INSTALLATION - BOOM (4WD/4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001223890	Ref	VALVE INSTALLATION - BOOM (4WD/4WS)	B
1	0100011	AR	Compound, Locking	
5	0761010	3	Bolt M10 x 20	
14	4812000	3	Washer M10	
19	1001151500	1	Jib and Platform Rotate Valve Assembly (See Separate Breakdown in this Section)	

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FIGURE 4-11. JIB AND PLATFORM ROTATE VALVE ASSEMBLY



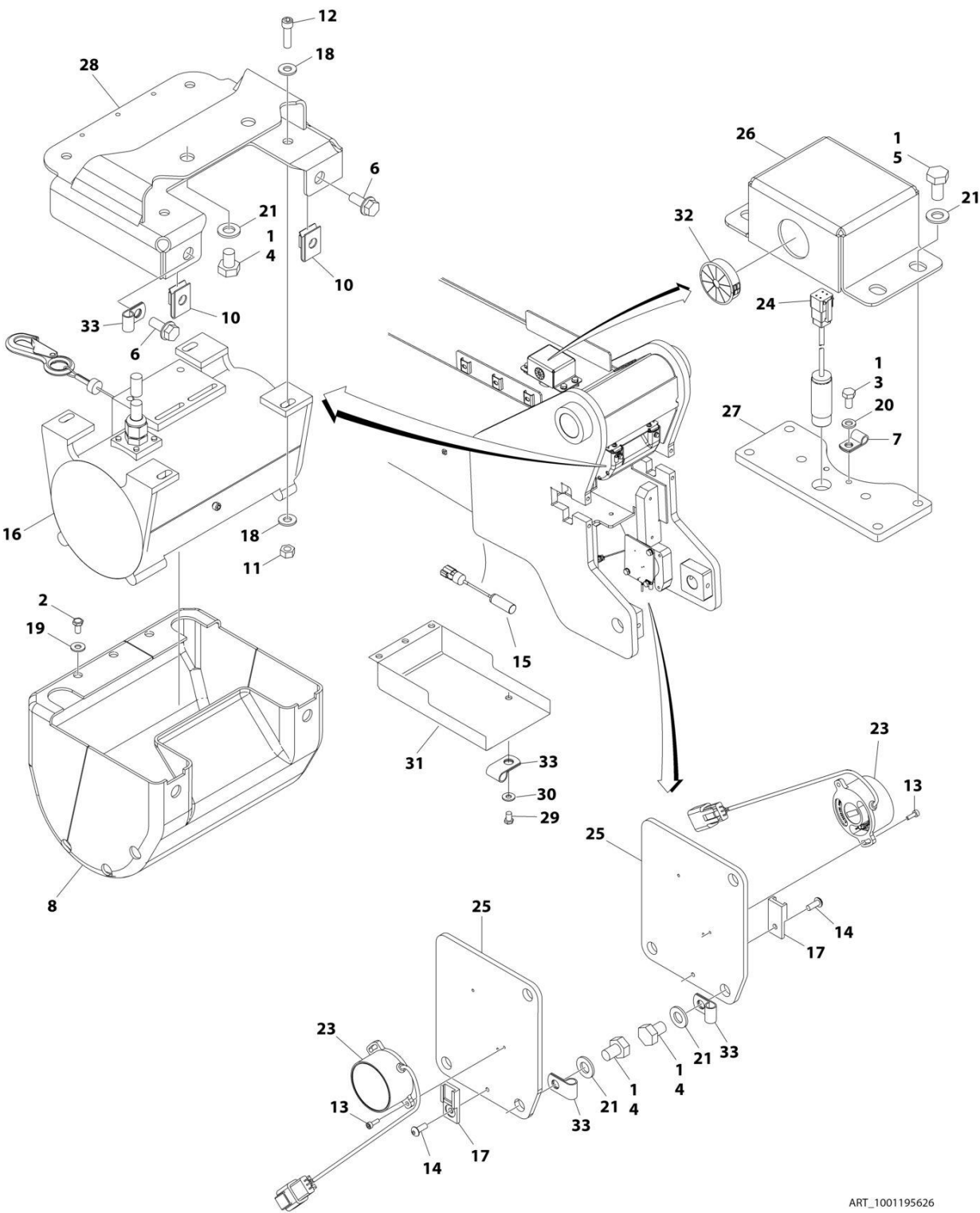
ART_1001151500

FIGURE 4-11. JIB AND PLATFORM ROTATE VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151500	Ref	JIB AND PLATFORM ROTATE VALVE ASSEMBLY	F
1	70006425	1	Cartridge, Flow Regulator	
1	8036572	1	Seal Kit - 70005787 Valve	
2	70023609	1	Cartridge, Relief Valve	
2	7012998	1	Seal Kit - 70005788 Valve	
3	7017410	1	Cartridge, Solenoid Valve Less Coil	
3	7012967	1	Seal Kit - 7017410 Valve	
3	70003978	1	Nut, Coil	
4	70005789	2	Cartridge, Solenoid Valve Less Coil	
4	7017402	2	Seal Kit - 70005789 Valve	
4	7022390	2	Nut, Coil	
4	70003023	2	Spacer, Coil	
5	70002386	5	Coil	
6	2221086	1	Fitting, Test	

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FIGURE 4-12. BOOM SENSORS INSTALLATION



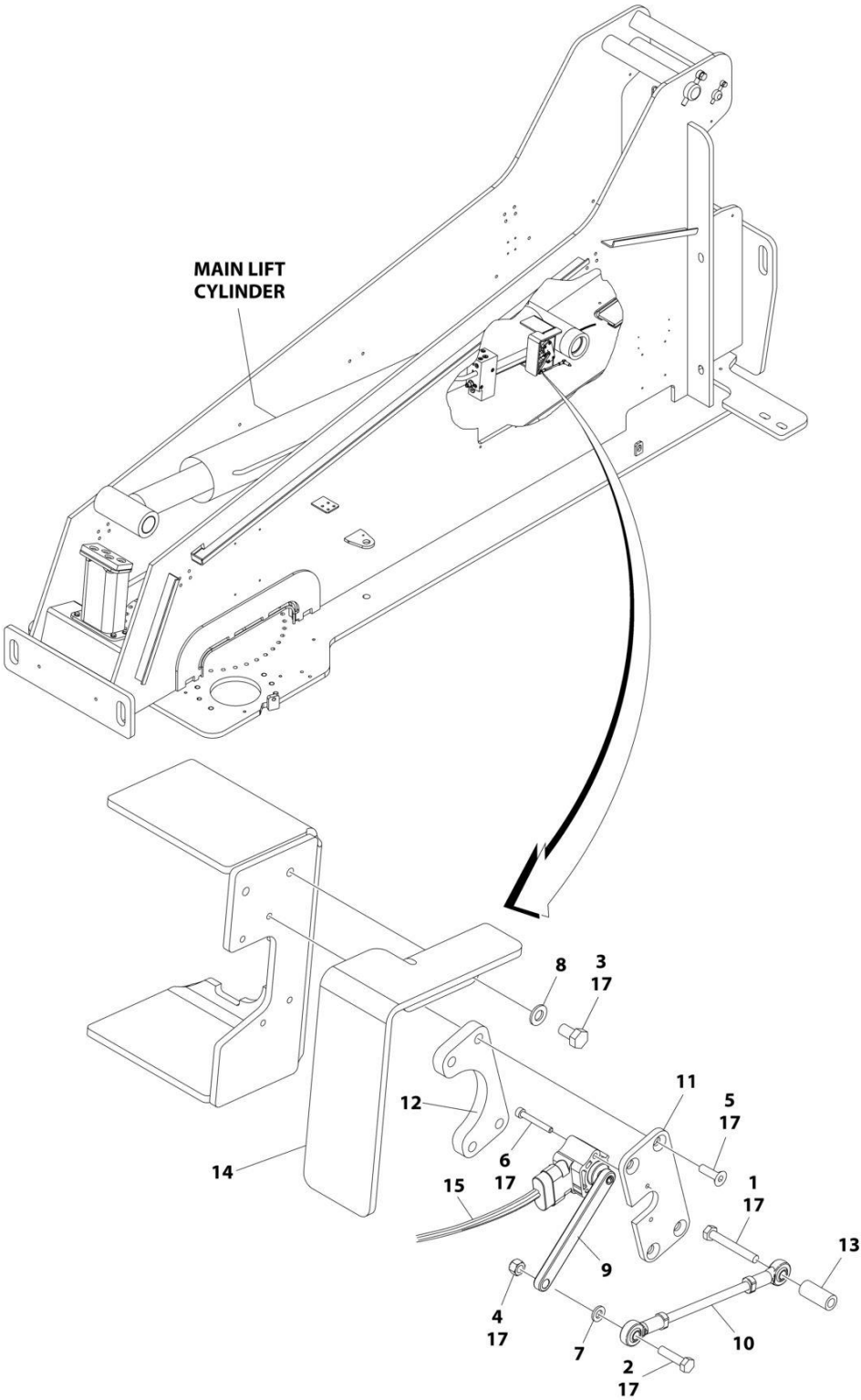
ART_1001195626

FIGURE 4-12. BOOM SENSORS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001195626	Ref	BOOM SENSORS INSTALLATION	E
1	0100011	AR	Compound, Locking	
2	0721003	3	Screw #10 x 3/8	
3	0760606	1	Bolt M6 x 12	
4	0761007	8	Bolt M10 x 14	
5	0761010	6	Bolt M10 x 20	
6	0791506	2	Screw 5/16 x 3/4	
7	1320136	1	Clamp	
8	1671142	1	Cover	
10	3300364	2	Nut, Tinnerman 5/16	
11	3311405	4	Nut 1/4	
12	3931414	4	Capscrew 1/4 x 7/8	
13	4031205	6	Capscrew M3 x 10	
14	4031605	2	Capscrew M5 x 10	
15	1001196517	1	Sensor, Proximity	
16	4360552	1	Switch, Boom Length	
17	4460914	2	Terminal, Base	
18	4711400	8	Washer 1/4	
19	4751000	3	Washer #10	
20	4811700	1	Washer M6	
21	4812000	14	Washer M10	
23	1001147479	2	Sensor, Angle	
24	1001204043	1	Sensor, Proximity	
25	1001151906	2	Plate	
26	1001151907	1	Cover	
27	1001151908	1	Plate	
28	1001242540	1	Support	
29	0760806	7	Bolt M8 x 12	
30	4811900	7	Washer M8	
31	1001221435	1	Cover	
32	1001185281	1	Plug	
33	1320263	6	Clamp	

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FIGURE 4-13. BOOM SENSORS INSTALLATION (WITH VERTICAL/HORIZONTAL CONTROLS)



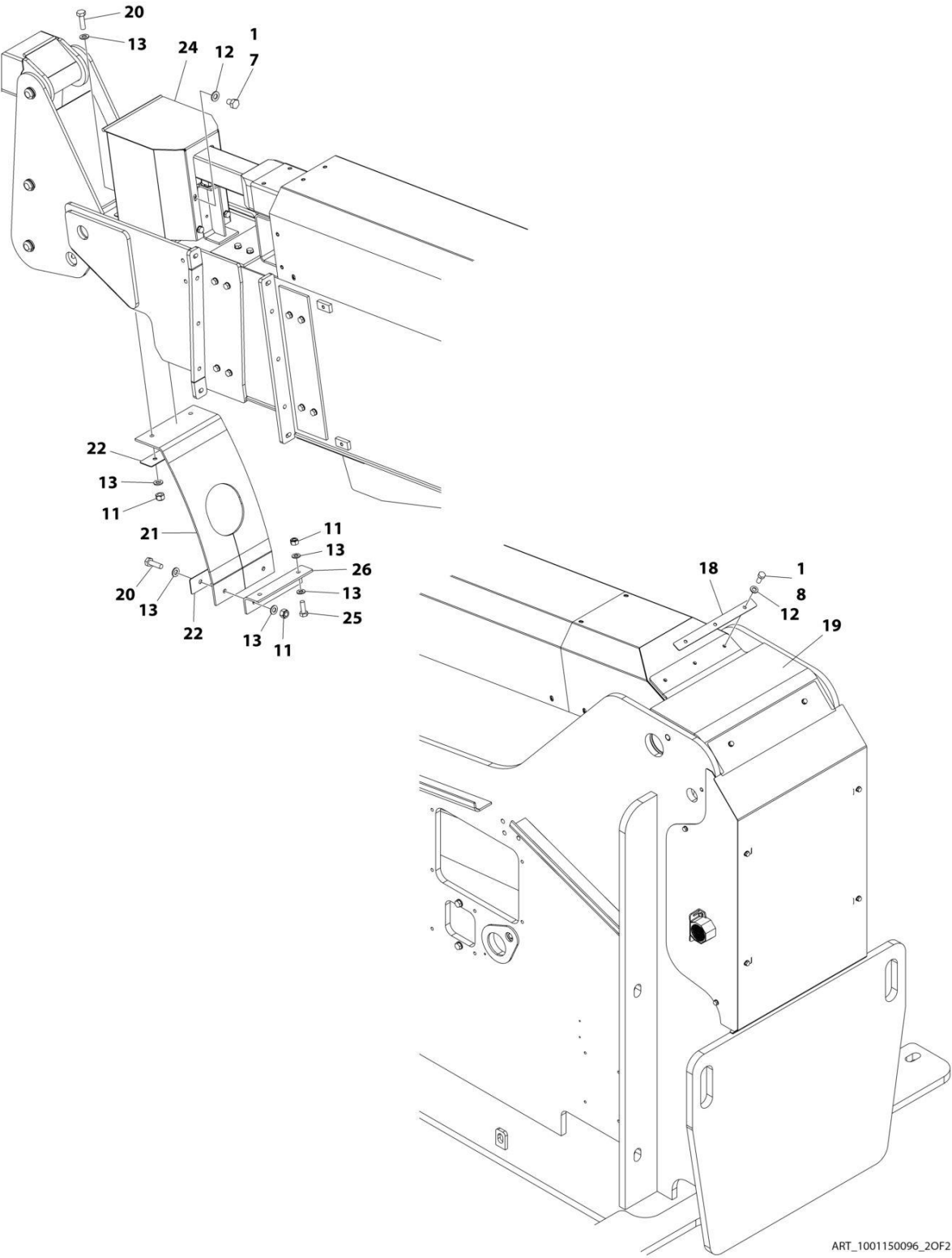
ART_1001150036

FIGURE 4-13. BOOM SENSORS INSTALLATION (WITH VERTICAL/HORIZONTAL CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150036	Ref	BOOM SENSORS INSTALLATION (WITH VERTICAL/HORIZONTAL CONTROLS)	C
1	0700617	1	Bolt M6 x 45	
2	0760612	1	Bolt M6 x 25	
3	0760807	2	Bolt M8 x 14	
4	3290605	1	Nut M6	
5	1001170305	4	Screw #6	
6	4031510	2	Capscrew M4 x 30	
7	4811700	1	Washer M6	
8	4811900	2	Washer M8	
9	1001118971	1	Sensor, Angle	
10	1001119033	1	Link	
11	1001152039	1	Mount	
12	1001152059	1	Plate	
13	1001152060	1	Sleeve	
14	1001152062	1	Cover	
15	1001152454	1	HV Protractor Harness	
15	1001230931	1	Plug, Male - 6 Position (Angle Sensor)	
15	1001116748	6	Socket, Female	
15	4460899	1	Receptacle, Female - 6 Position (BLAM Module)	
15	4460464	6	Pin, Male	
16	1001207673	1	HV Jumper Harness (Not Shown)	
16	4460871	2	Pin, Male	
17	0100011	AR	Compound, Locking	

SECTION 4 - BOOM

FIGURE 4-14. BOOM SHIELDS INSTALLATION



ART_1001150096_2OF2

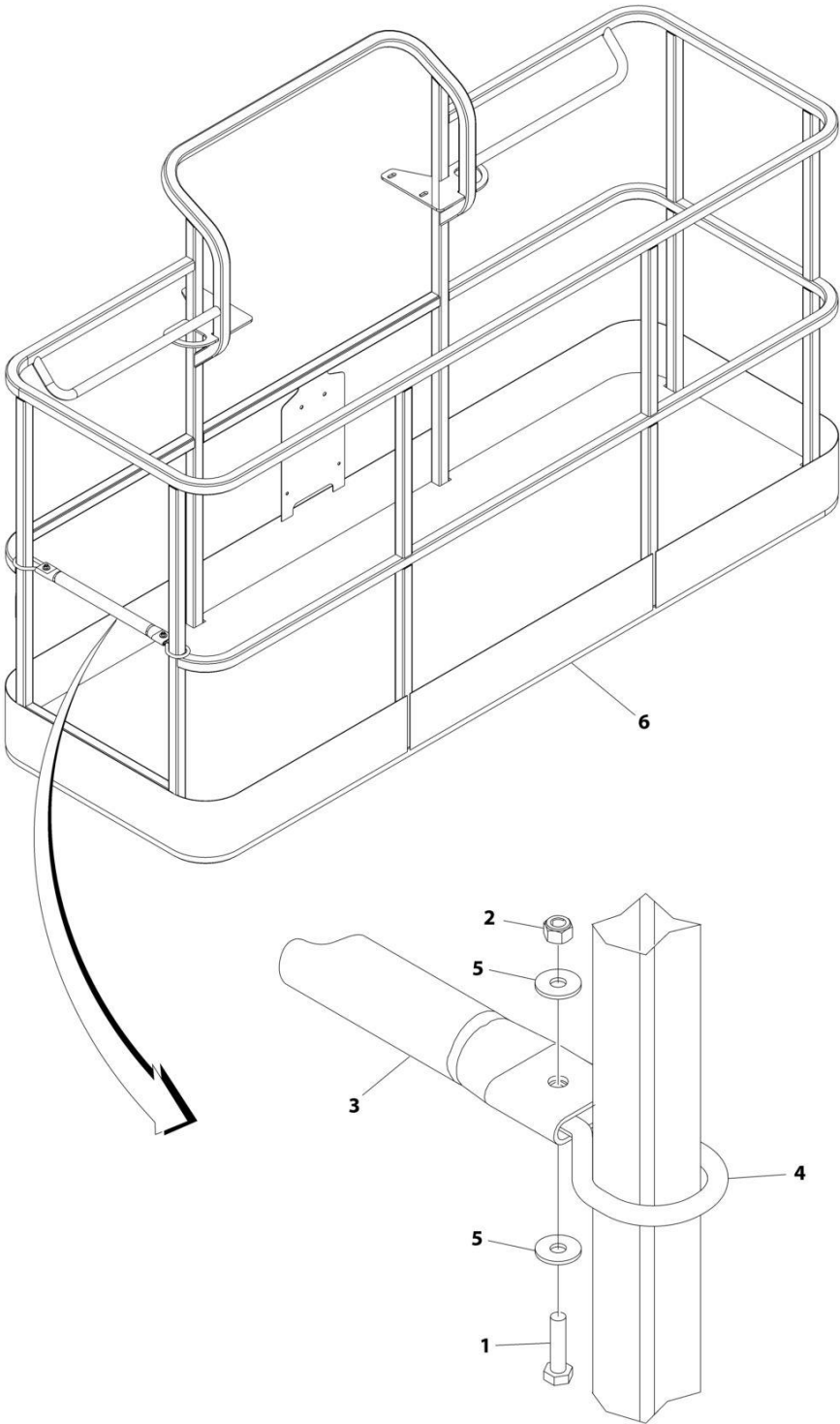
FIGURE 4-14. BOOM SHIELDS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150096	Ref	BOOM SHIELDS INSTALLATION	I
1	0100011	AR	Compound, Locking	
7	0760807	7	Bolt M8 x 14	
8	0760810	3	Bolt M8 x 20	
11	3291005	6	Nut M10	
12	4811900	6	Washer M8	
13	4812000	12	Washer M10	
18	1001195876	1	Plate, Clamp	
19	1001195877	1	Cover, Boom Pivot	
20	0761015	4	Bolt M10 x 35	
21	1001200156	1	Cover, Fly Nose	
22	1001200157	2	Plate, Clamp	
24	1001205505	1	Cover, Valve	
25	0761014	2	Bolt M10 x 30	
26	1001220562	1	Bracket	

SECTION 5 - PLATFORM

SECTION 5 - PLATFORM

FIGURE 5-1. PLATFORM ASSEMBLY - STANDARD MACHINES



ART_1001227180

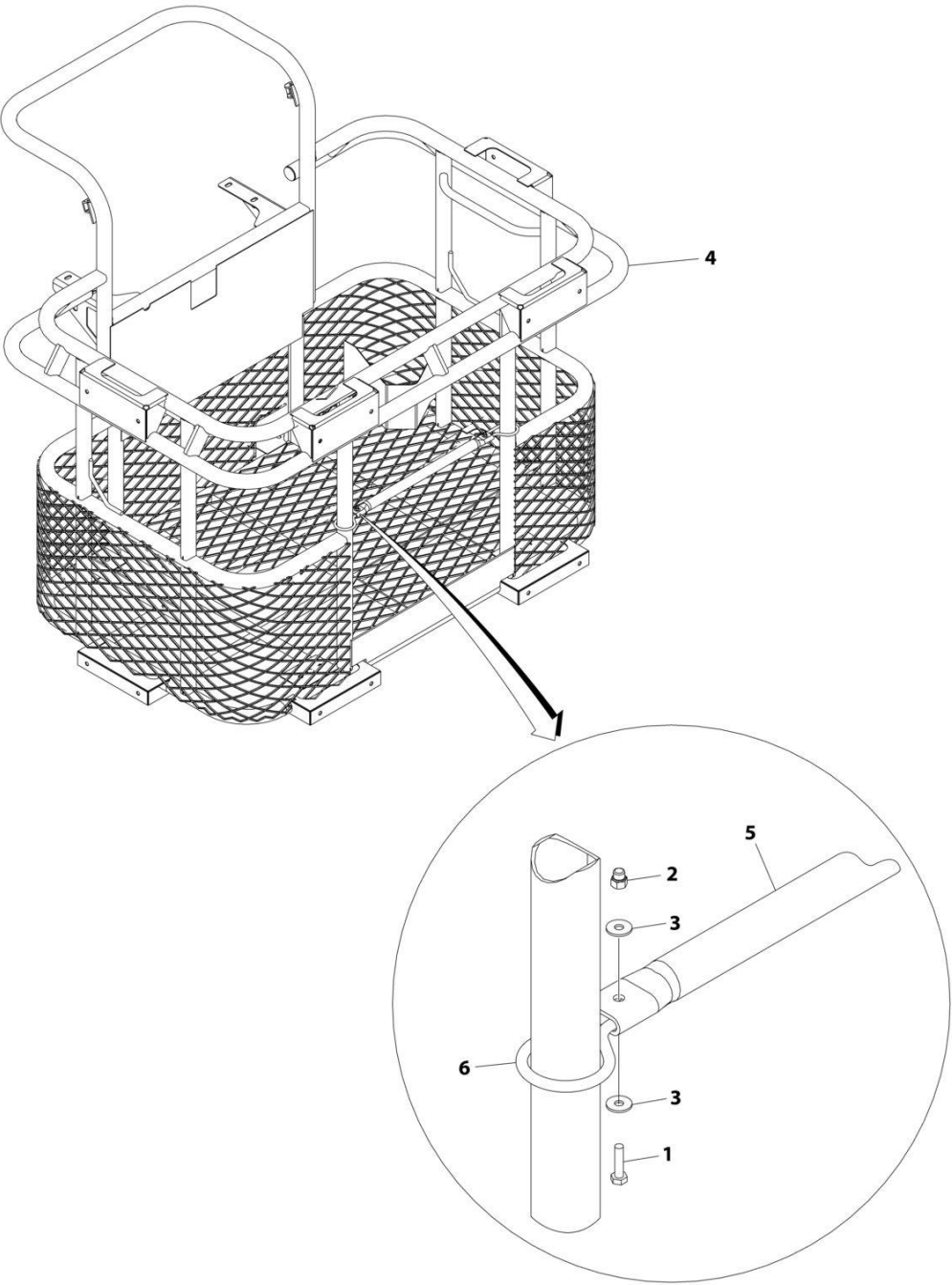
SECTION 5 - PLATFORM

FIGURE 5-1. PLATFORM ASSEMBLY - STANDARD MACHINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227180	Ref	PLATFORM ASSEMBLY - STANDARD MACHINES	C
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.	
1	0760612	2	Bolt M6 x 25	
2	3290605	2	Nut M6	
3	3641585	1	Rail	
4	3841692	2	Loop, Rod	
5	4811702	4	Washer M6	
6	See Note	NSS	Platform (Note: Purchase Platform Assembly)	

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FIGURE 5-2. PLATFORM ASSEMBLY - SHIPYARD MACHINES



ART_1001150037

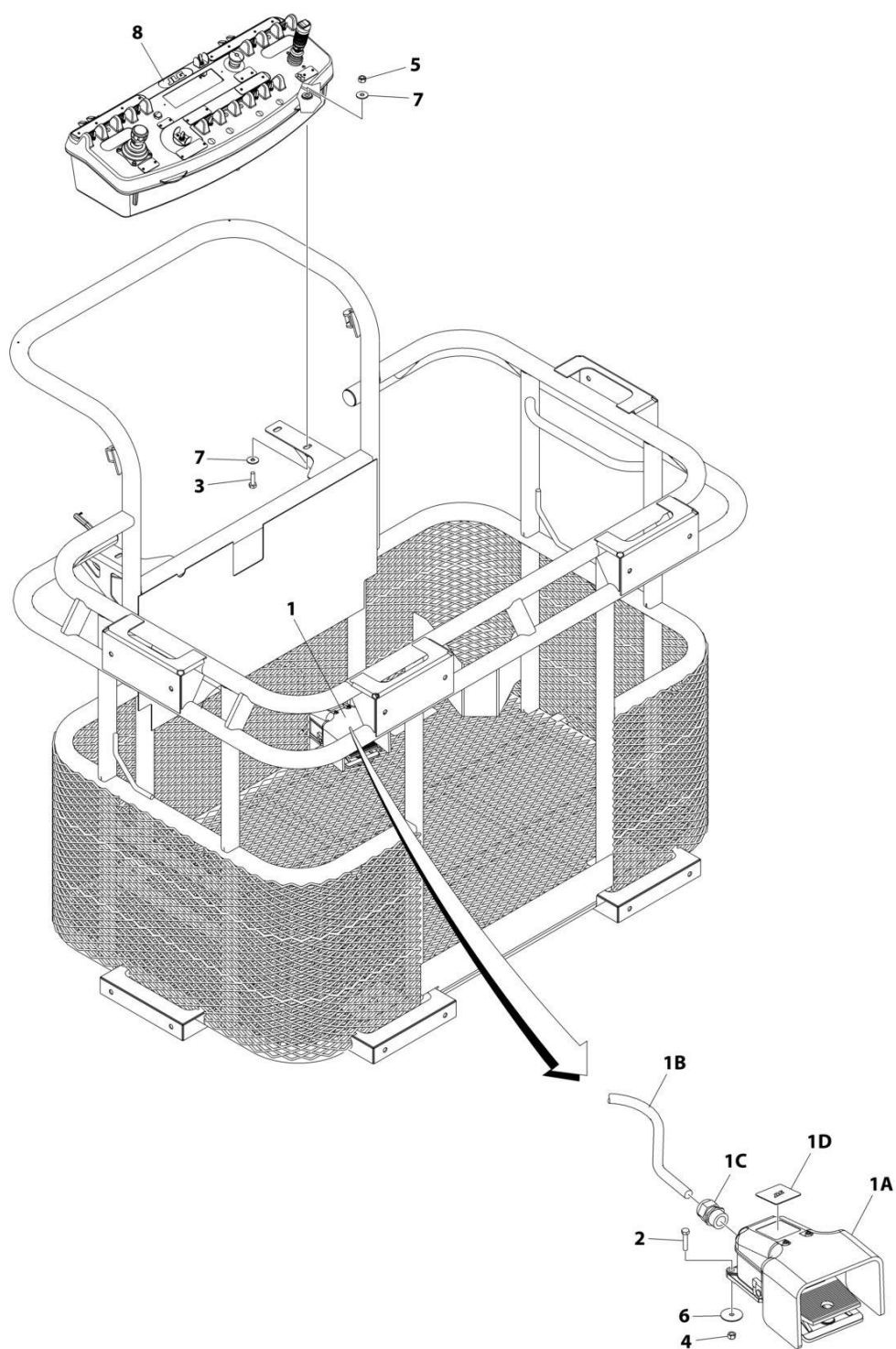
SECTION 5 - PLATFORM

FIGURE 5-2. PLATFORM ASSEMBLY - SHIPYARD MACHINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150037	Ref	PLATFORM ASSEMBLY - SHIPYARD MACHINES	B
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.	
1	0760612	2	Bolt M6 x 25	
2	3290606	2	Nut M6	
3	4811702	4	Washer M6	
4	See Note	NSS	Platform (Note: Purchase Platform Assembly)	
5	1001151214	1	Rail	
6	1001151215	2	Loop, Rod	

SECTION 5 - PLATFORM

**FIGURE 5-3. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH LANGUAGE)**



ART_1001248425

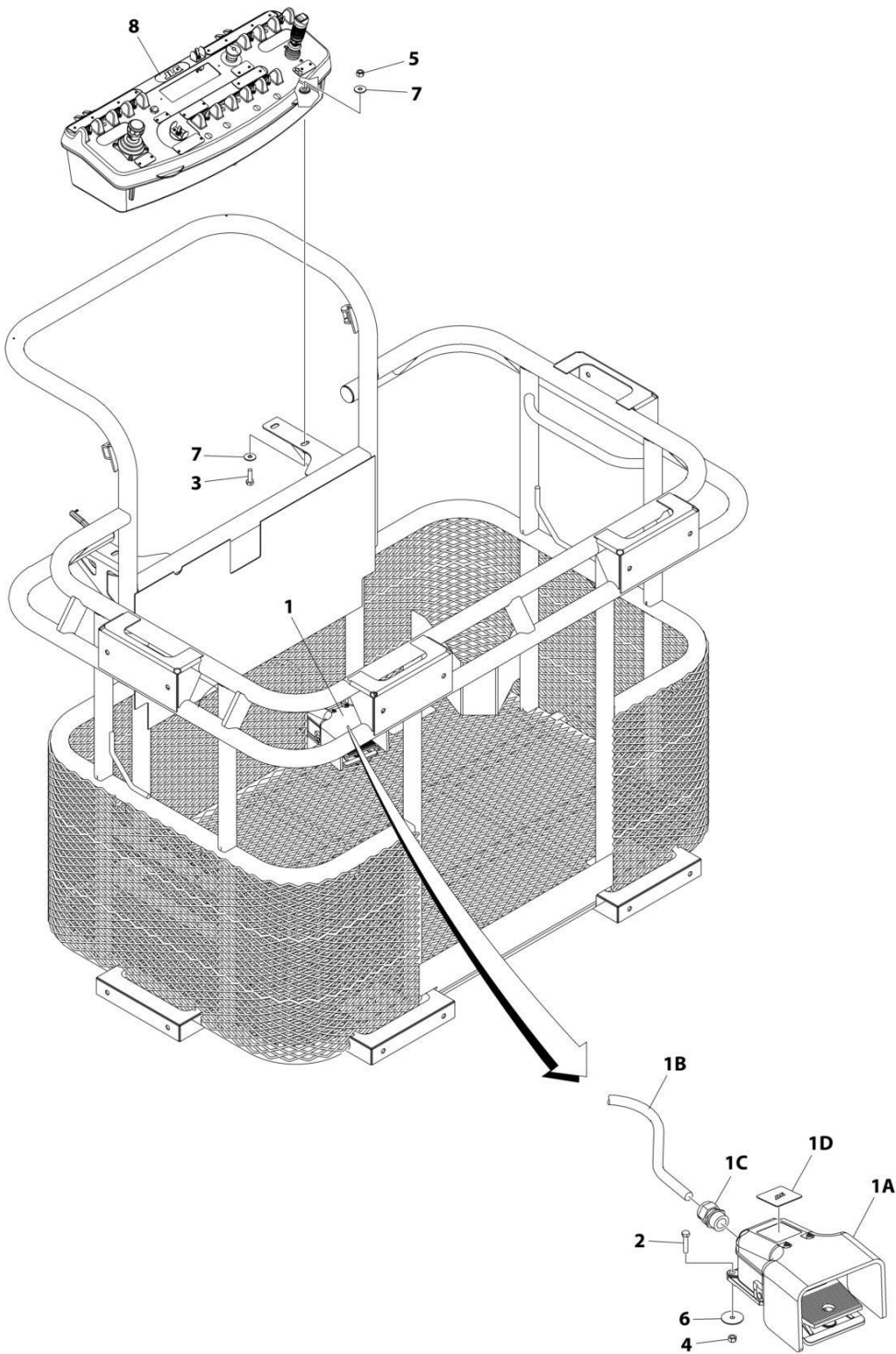
SECTION 5 - PLATFORM

**FIGURE 5-3. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH LANGUAGE)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248425	Ref	PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES (ENGLISH LANGUAGE)	A
1	0272970	1	Footswitch Assembly	B
1A	0100020	1	Sealant	
1B	1060918	7 ft/ 2.2m	Cable, Electrical - 18/3	
1C	1001117320	1	Footswitch	
1D	4460042	3	Terminal, Ring	
1E	4460071	1	Connector, Strain Relief	
1F	4460226	2	Socket, Female	
1G	4460464	1	Pin, Male	
2	0760614	3	Bolt M6 x 30	
3	0761015	4	Bolt M10 x 35	
4	3290605	3	Nut M6	
5	3291005	4	Nut M10	
6	4740362	3	Washer, Fender 1/4	
7	4812002	8	Washer M10	
8	1001248456	1	Platform Console and Decals Installation (See Separate Breakdown in this Section)	

SECTION 5 - PLATFORM

FIGURE 5-4. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH/CHINESE LANGUAGE)



ART_1001248427

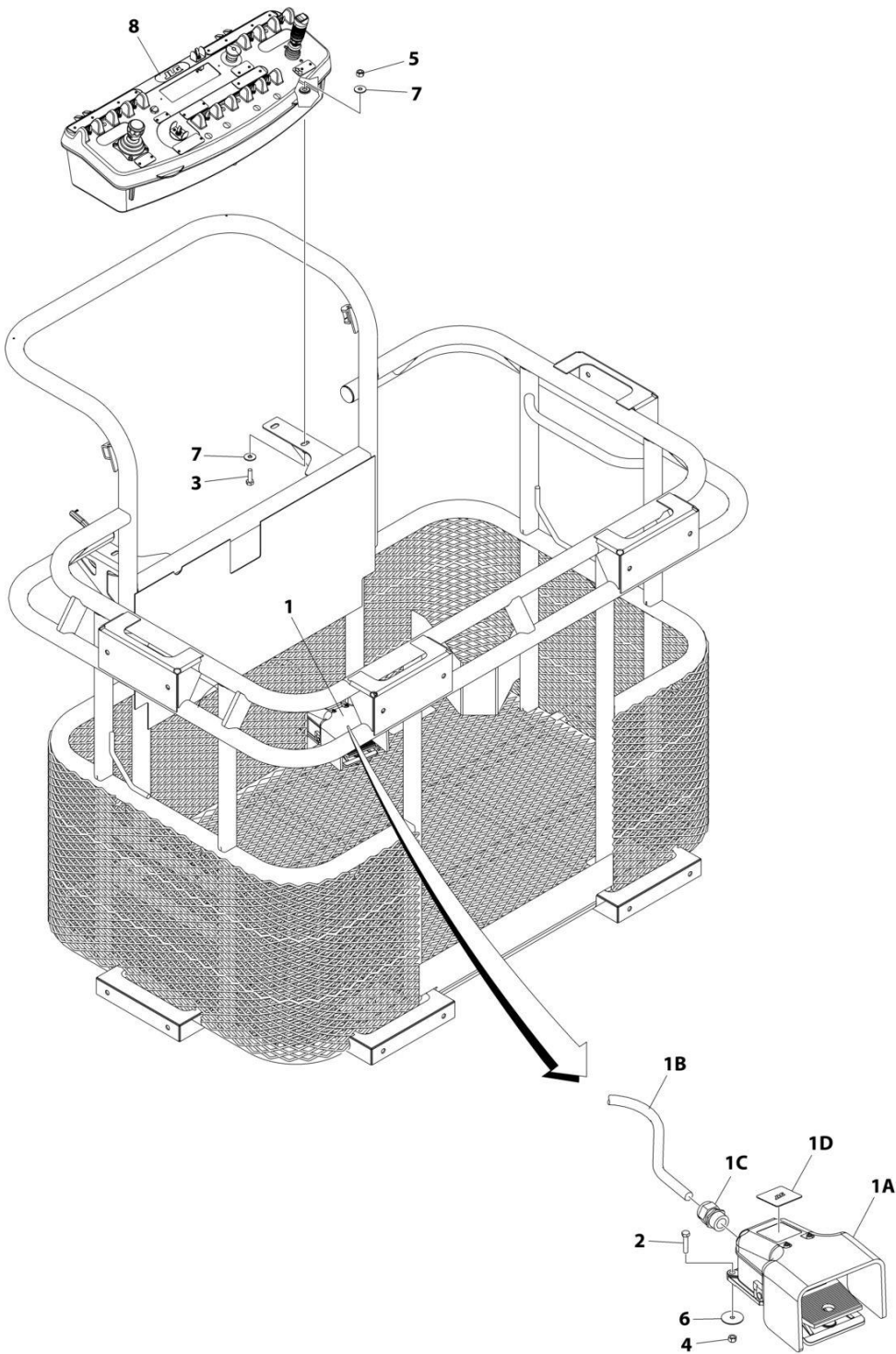
SECTION 5 - PLATFORM

**FIGURE 5-4. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH/CHINESE LANGUAGE)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248427	Ref	PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES (ENGLISH/CHINESE LANGUAGE)	A
1	0272970	1	Footswitch Assembly	B
1A	0100020	1	Sealant	
1B	1060918	7 ft/ 2.2m	Cable, Electrical - 18/3	
1C	1001117320	1	Footswitch	
1D	4460042	3	Terminal, Ring	
1E	4460071	1	Connector, Strain Relief	
1F	4460226	2	Socket, Female	
1G	4460464	1	Pin, Male	
2	0760614	3	Bolt M6 x 30	
3	0761015	4	Bolt M10 x 35	
4	3290605	3	Nut M6	
5	3291005	4	Nut M10	
6	4740362	3	Washer, Fender 1/4	
7	4812002	8	Washer M10	
8	1001248458	1	Platform Console and Decals Installation (See Separate Breakdown in this Section)	

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**FIGURE 5-5. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH/JAPANESE LANGUAGE)**



ART_1001248428

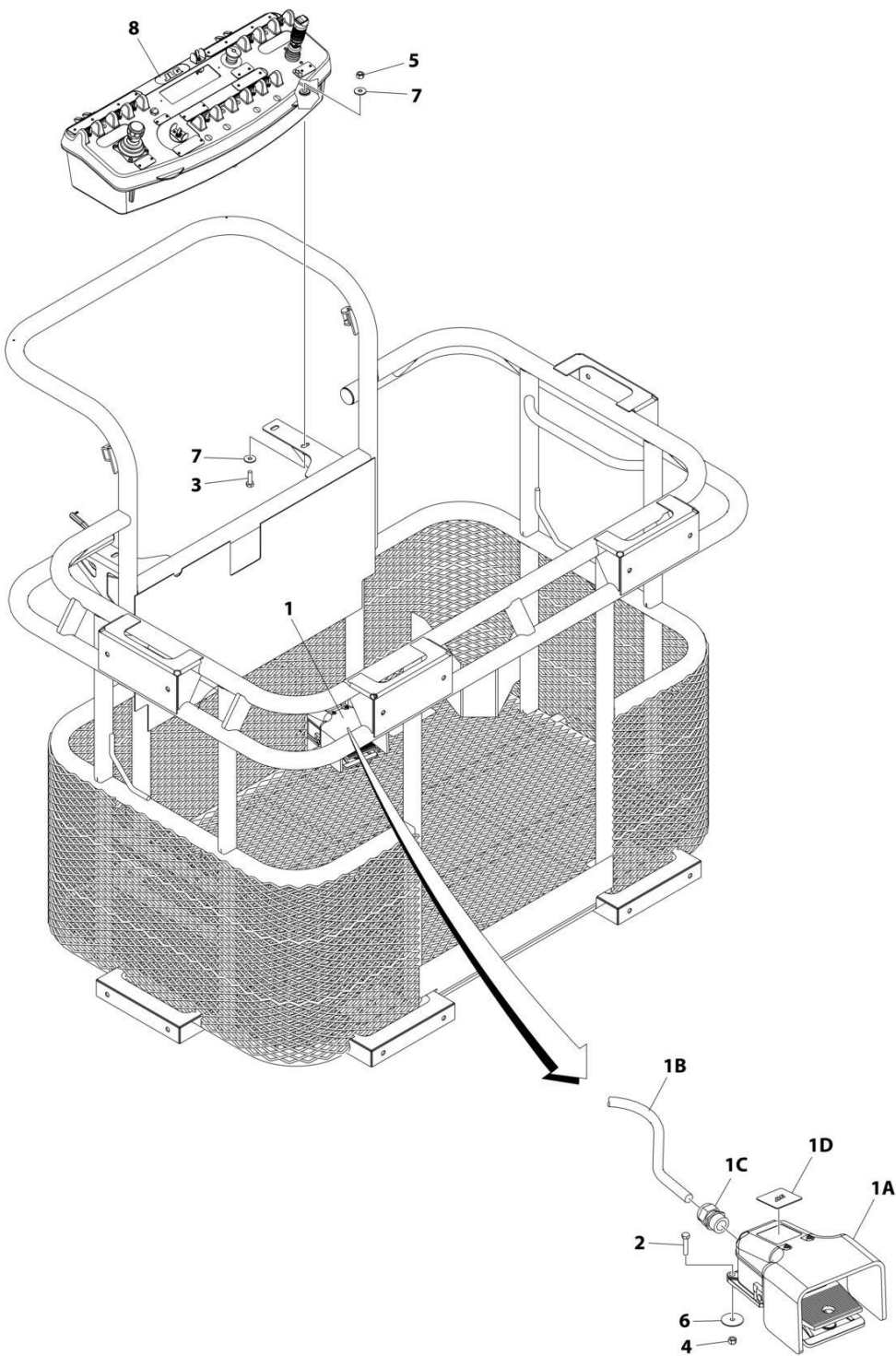
SECTION 5 - PLATFORM

**FIGURE 5-5. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH/JAPANESE LANGUAGE)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248428	Ref	PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES (ENGLISH/JAPANESE LANGUAGE)	A
1	0272970	1	Footswitch Assembly	B
1A	0100020	1	Sealant	
1B	1060918	7 ft/ 2.2m	Cable, Electrical - 18/3	
1C	1001117320	1	Footswitch	
1D	4460042	3	Terminal, Ring	
1E	4460071	1	Connector, Strain Relief	
1F	4460226	2	Socket, Female	
1G	4460464	1	Pin, Male	
2	0760614	3	Bolt M6 x 30	
3	0761015	4	Bolt M10 x 35	
4	3290605	3	Nut M6	
5	3291005	4	Nut M10	
6	4740362	3	Washer, Fender 1/4	
7	4812002	8	Washer M10	
8	1001248459	1	Platform Console and Decals Installation (See Separate Breakdown in this Section)	

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FIGURE 5-6. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH/KOREAN LANGUAGE)



ART_1001248426

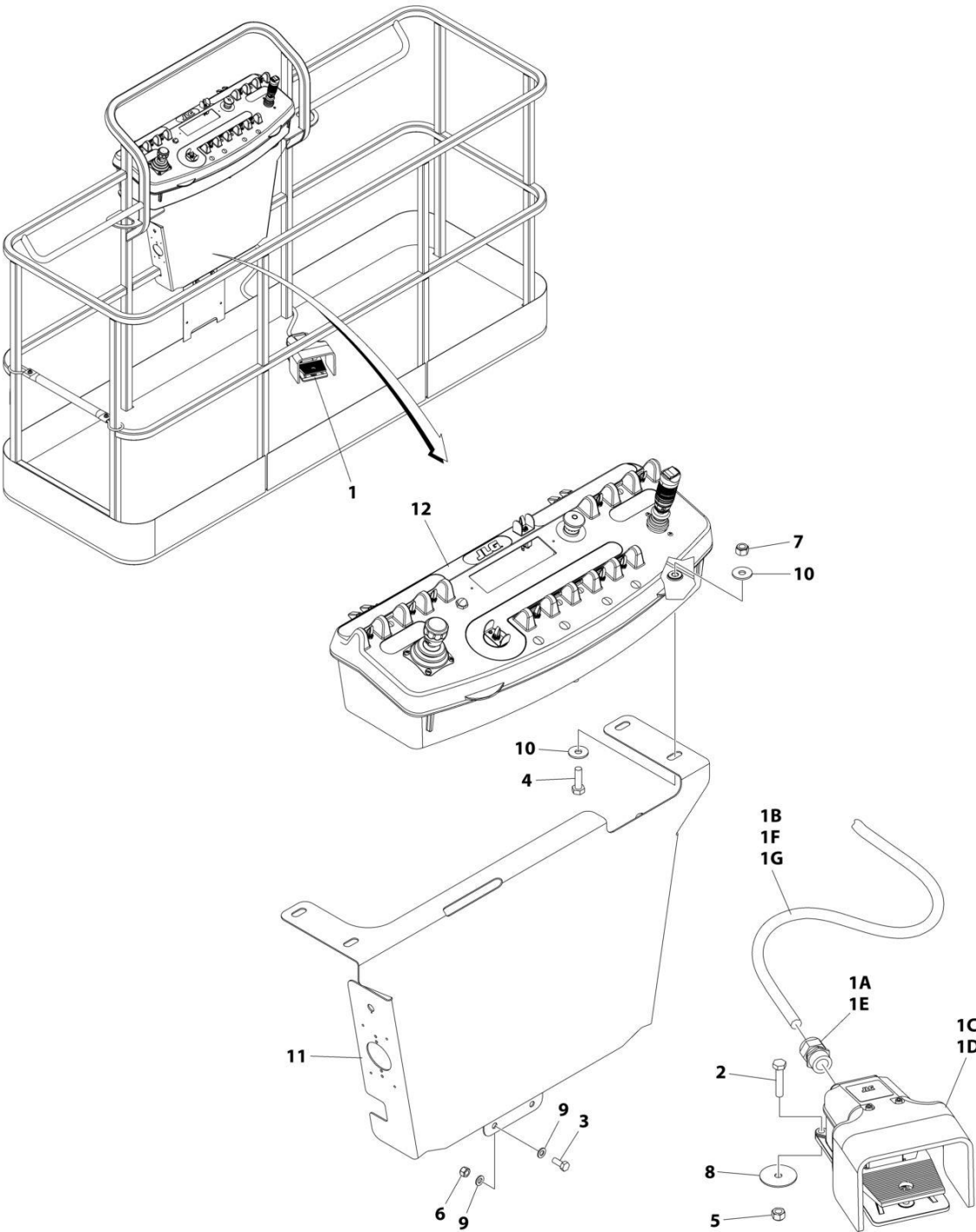
SECTION 5 - PLATFORM

**FIGURE 5-6. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - SHIPYARD MACHINES
(ENGLISH/KOREAN LANGUAGE)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248426	Ref	PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION	A
1	0272970	1	Footswitch Assembly	B
1A	0100020	1	Sealant	
1B	1060918	7 ft/ 2.2m	Cable, Electrical - 18/3	
1C	1001117320	1	Footswitch	
1D	4460042	3	Terminal, Ring	
1E	4460071	1	Connector, Strain Relief	
1F	4460226	2	Socket, Female	
1G	4460464	1	Pin, Male	
2	0760614	3	Bolt M6 x 30	
3	0761015	4	Bolt M10 x 35	
4	3290605	3	Nut M6	
5	3291005	4	Nut M10	
6	4740362	3	Washer, Fender 1/4	
7	4812002	8	Washer M10	
8	1001248457	1	Platform Console and Decals Installation (See Separate Breakdown in this Section)	

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FIGURE 5-7. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - STANDARD MACHINES
(ENGLISH LANGUAGE)



ART_1001255824

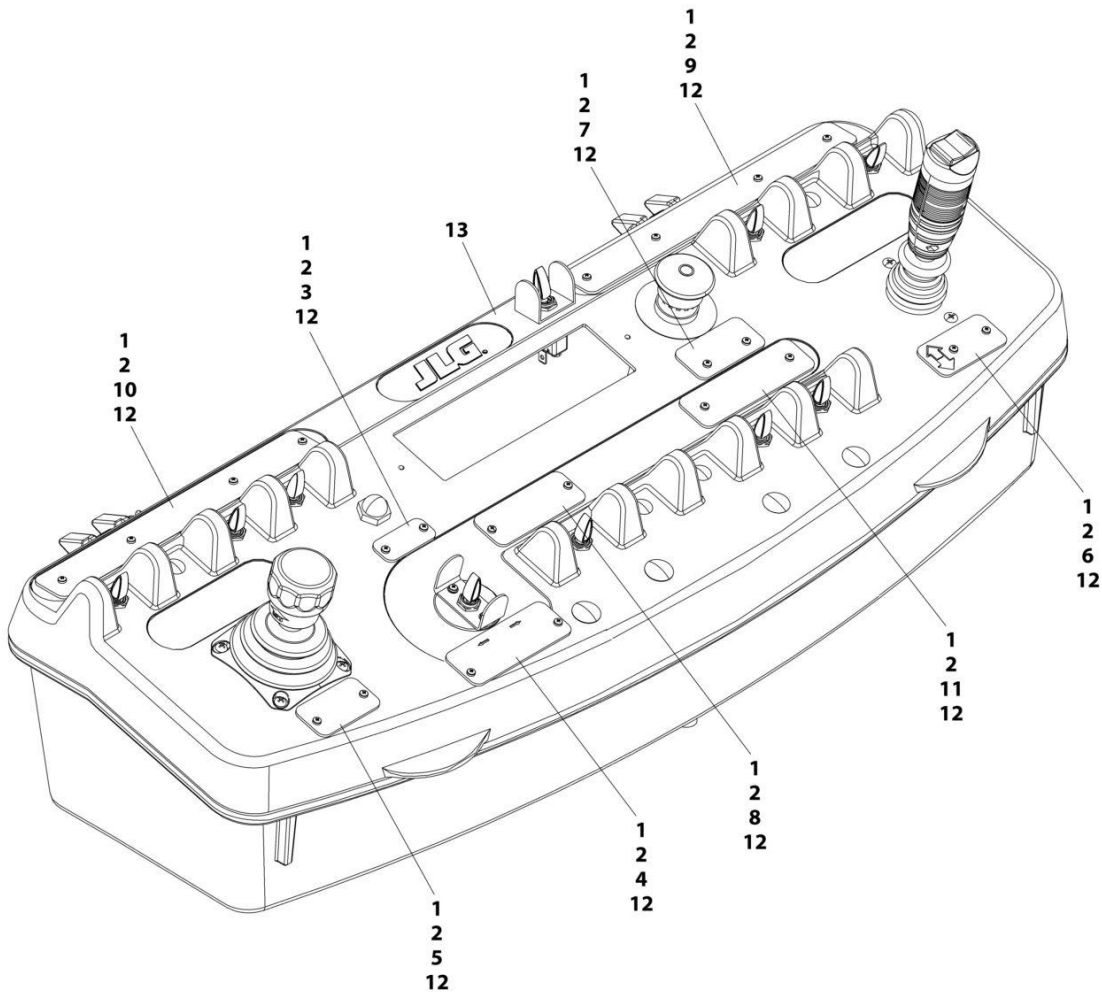
SECTION 5 - PLATFORM

**FIGURE 5-7. PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - STANDARD MACHINES
(ENGLISH LANGUAGE)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001255824	Ref	PLATFORM CONSOLE AND FOOTSWITCH INSTALLATION - STANDARD MACHINES (ENGLISH LANGUAGE)	A
1	0272970	1	Footswitch Assembly	B
1A	0100020	1	Sealant	
1B	1060918	7 ft/ 2.2m	Cable, Electrical - 18/3	
1C	1001117320	1	Footswitch	
1D	4460042	3	Terminal, Ring	
1E	4460071	1	Connector, Strain Relief	
1F	4460226	2	Socket, Female	
1G	4460464	1	Pin, Male	
2	0760614	3	Bolt M6 x 30	
3	0760810	2	Bolt M8 x 20	
4	0761015	4	Bolt M10 x 35	
5	3290605	3	Nut M6	
6	3290805	2	Nut M8	
7	3291005	4	Nut M10	
8	4740362	3	Washer, Fender 1/4	
9	4811900	4	Washer M8	
10	4812002	8	Washer M10	
11	1001145439	1	Panel, Pedestal	
12	1001255826	1	Platform Console and Decals Installation (See Separate Breakdown in this Section)	

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FIGURE 5-8. CONSOLE BOX SUB-ASSEMBLY (ENGLISH LANGUAGE)



ART_1001248456

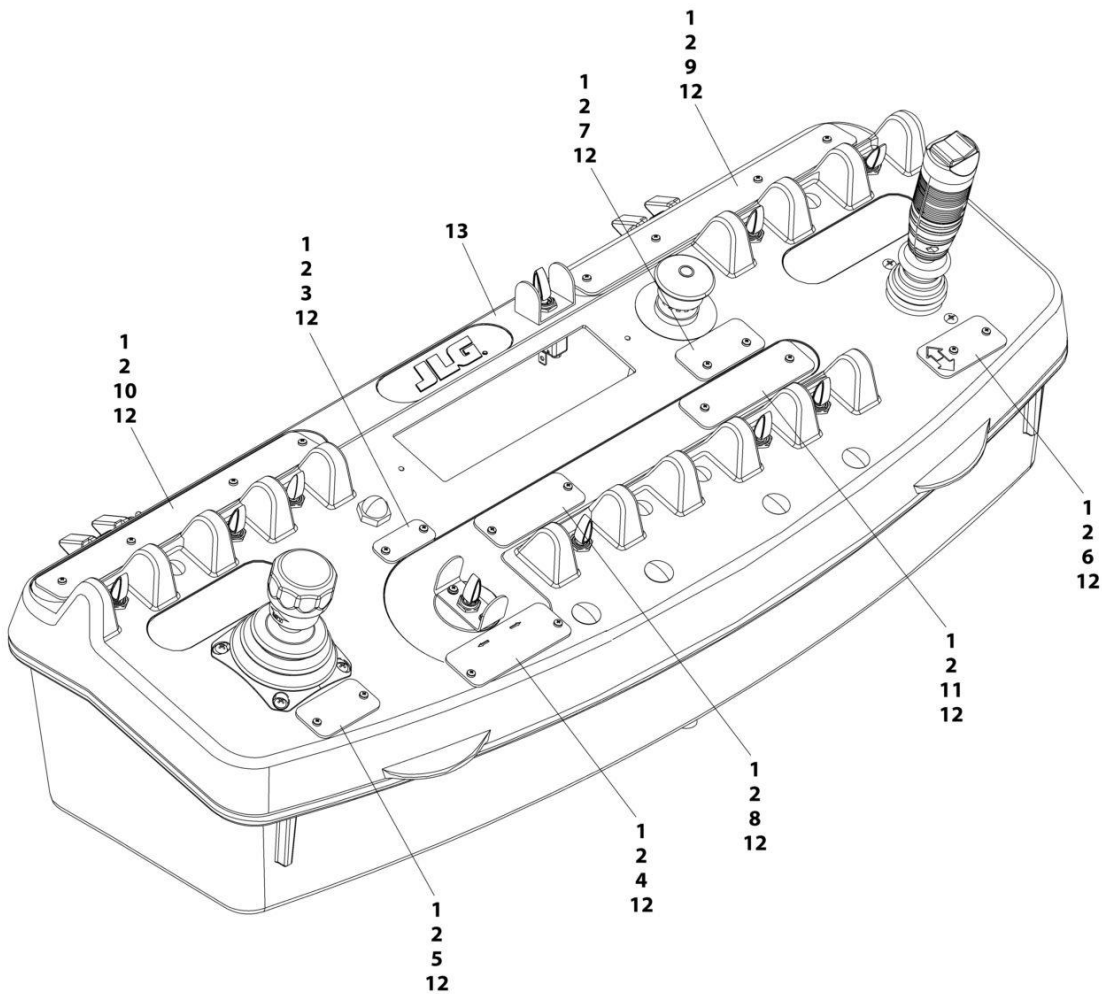
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FIGURE 5-8. CONSOLE BOX SUB-ASSEMBLY (ENGLISH LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248456	Ref	PLATFORM CONSOLE AND DECALS INSTALLATION	A
1	3290305	22	Nut M3	
2	1001110544	22	Washer M3	
3	1001198138	1	Decal - Horn	
4	1001198146	1	Decal - Function Speed Selection	
5	1001198150	1	Decal - Lift/Swing Selection	
6	1001198154	1	Decal - Drive/Steer Selection	
7	1001198156	1	Decal - Emergency Stop	
8	1001198200	1	Decal - Platform Rotate Selection	
9	1001198205	1	Decal	
10	1001198206	1	Decal	
11	1001198207	1	Decal	
12	1001198576	22	Screw M3 x 10	
13	1001248460	1	Console Box Assembly (See Separate Breakdown in this Section)	

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FIGURE 5-9. CONSOLE BOX SUB-ASSEMBLY (ENGLISH/JAPANESE LANGUAGE)



ART_1001248459

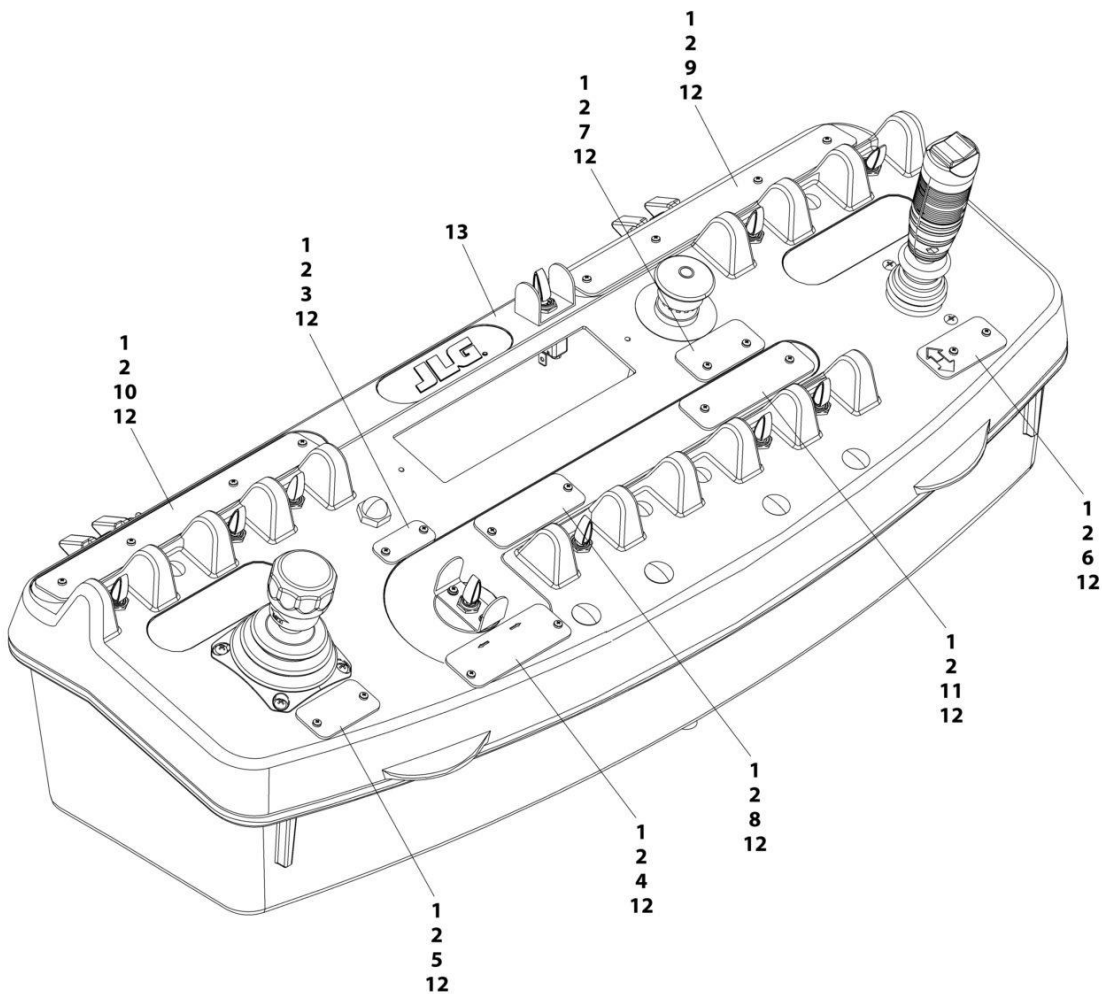
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FIGURE 5-9. CONSOLE BOX SUB-ASSEMBLY (ENGLISH/JAPANESE LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248459	Ref	PLATFORM CONSOLE AND DECALS INSTALLATION	A
1	3290305	22	Nut M3	
2	1001110544	22	Washer M3	
3	1001198144	1	Decal - Horn	
4	1001198145	1	Decal - Function Speed Selection	
5	1001198149	1	Decal - Lift/Swing Selection	
6	1001198153	1	Decal - Drive/Steer Selection	
7	1001198155	1	Decal - Emergency Stop	
8	1001198160	1	Decal - Platform Rotate Selection	
9	1001198166	1	Decal	
10	1001198167	1	Decal	
11	1001198170	1	Decal	
12	1001198576	22	Screw M3 x 10	
13	1001248460	1	Console Box Assembly (See Separate Breakdown in this Section)	

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FIGURE 5-10. CONSOLE BOX SUB-ASSEMBLY (ENGLISH/KOREAN LANGUAGE)



ART_1001248457

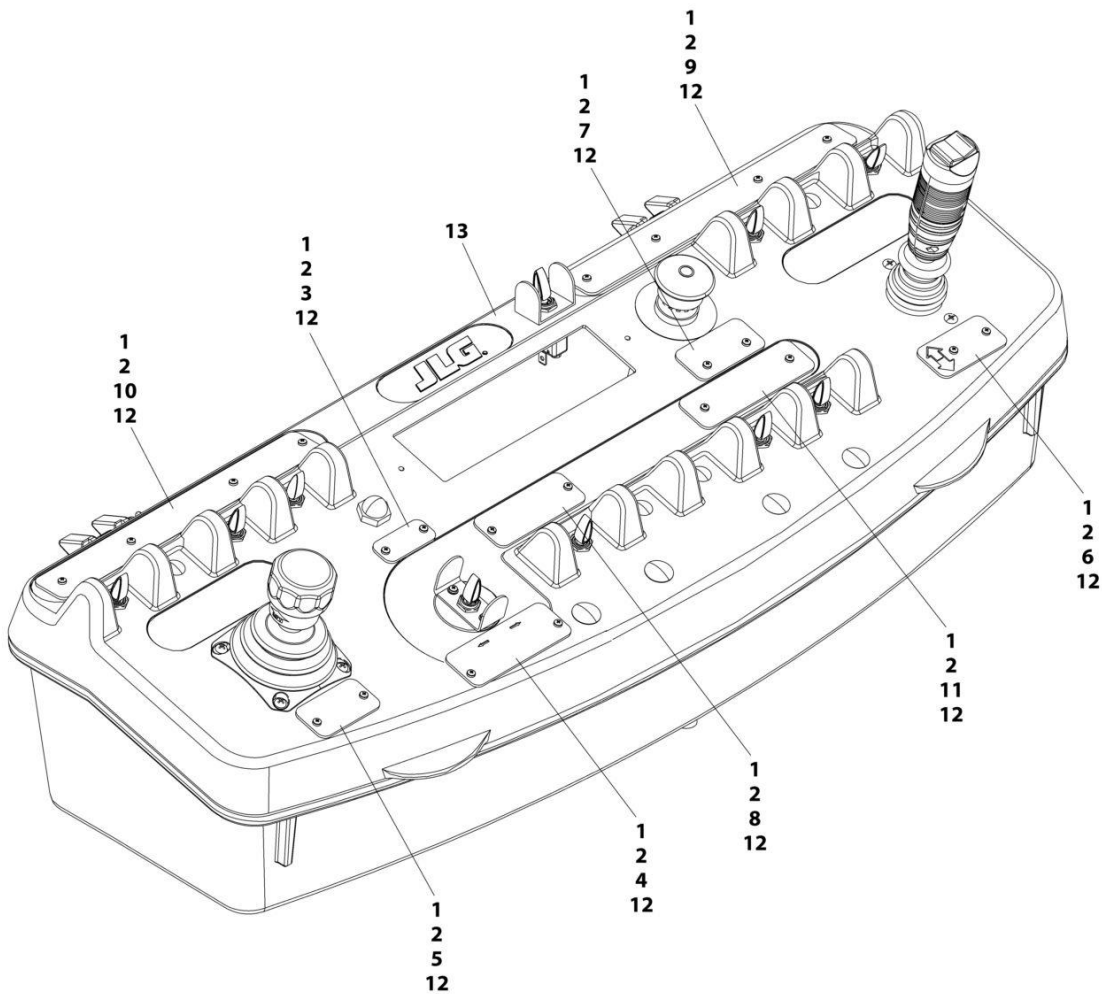
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FIGURE 5-10. CONSOLE BOX SUB-ASSEMBLY (ENGLISH/KOREAN LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248457	Ref	PLATFORM CONSOLE AND DECALS INSTALLATION	A
1	3290305	22	Nut M3	
2	1001110544	22	Washer M3	
3	1001198175	1	Decal - Horn	
4	1001198176	1	Decal - Function Speed Selection	
5	1001198178	1	Decal - Lift/Swing Selection	
6	1001198180	1	Decal - Drive/Steer Selection	
7	1001198181	1	Decal - Emergency Stop	
8	1001198183	1	Decal - Platform Rotate Selection	
9	1001198188	1	Decal	
10	1001198189	1	Decal	
11	1001198190	1	Decal	
12	1001198576	22	Screw M3 x 10	
13	1001248460	1	Console Box Assembly (See Separate Breakdown in this Section)	

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FIGURE 5-11. CONSOLE BOX SUB-ASSEMBLY (ENGLISH/CHINESE LANGUAGE)



ART_1001248458

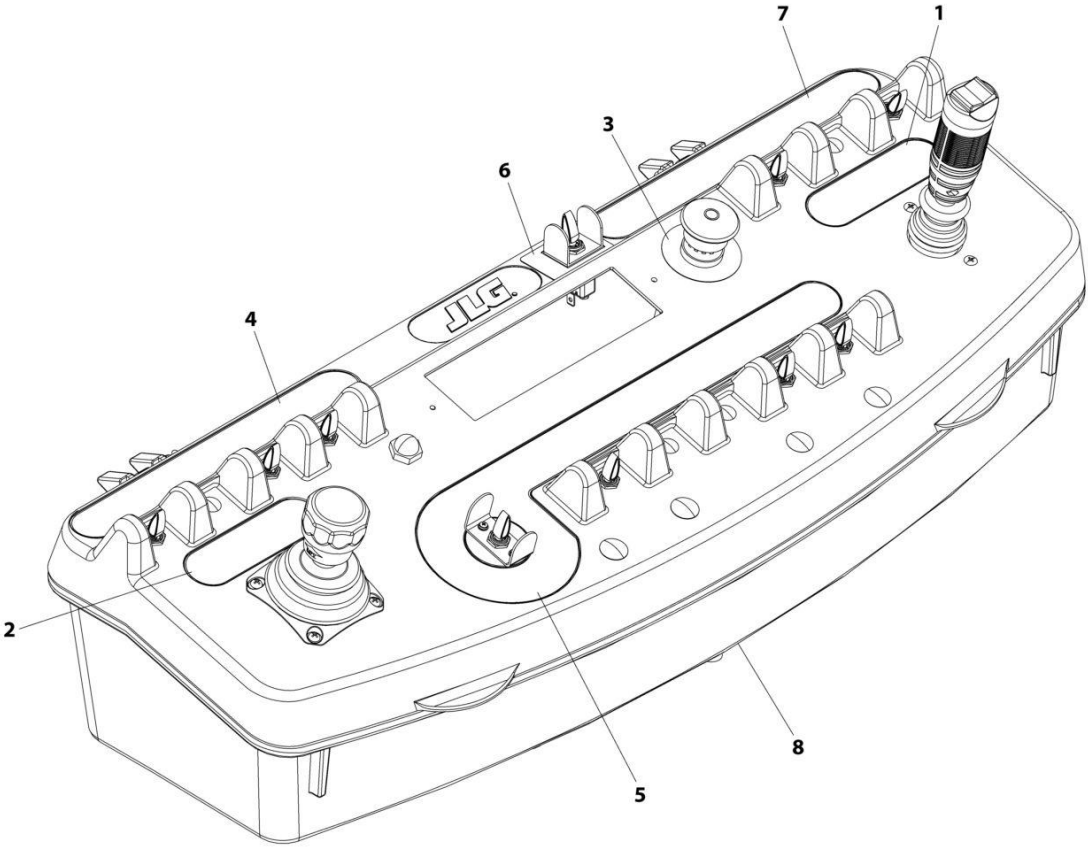
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FIGURE 5-11. CONSOLE BOX SUB-ASSEMBLY (ENGLISH/CHINESE LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248458	Ref	PLATFORM CONSOLE AND DECALS INSTALLATION	A
1	3290305	22	Nut M3	
2	1001110544	22	Washer M3	
3	1001198211	1	Decal - Horn	
4	1001198212	1	Decal - Function Speed Selection	
5	1001198214	1	Decal - Lift/Swing Selection	
6	1001198216	1	Decal - Drive/Steer Selection	
7	1001198217	1	Decal - Emergency Stop	
8	1001198219	1	Decal - Platform Rotate Selection	
9	1001198224	1	Decal	
10	1001198225	1	Decal	
11	1001198226	1	Decal	
12	1001198576	22	Screw M3 x 10	
13	1001248460	1	Console Box Assembly (See Separate Breakdown in this Section)	

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FIGURE 5-12. CONSOLE BOX SUB-ASSEMBLY (ENGLISH LANGUAGE)



ART_1001255826

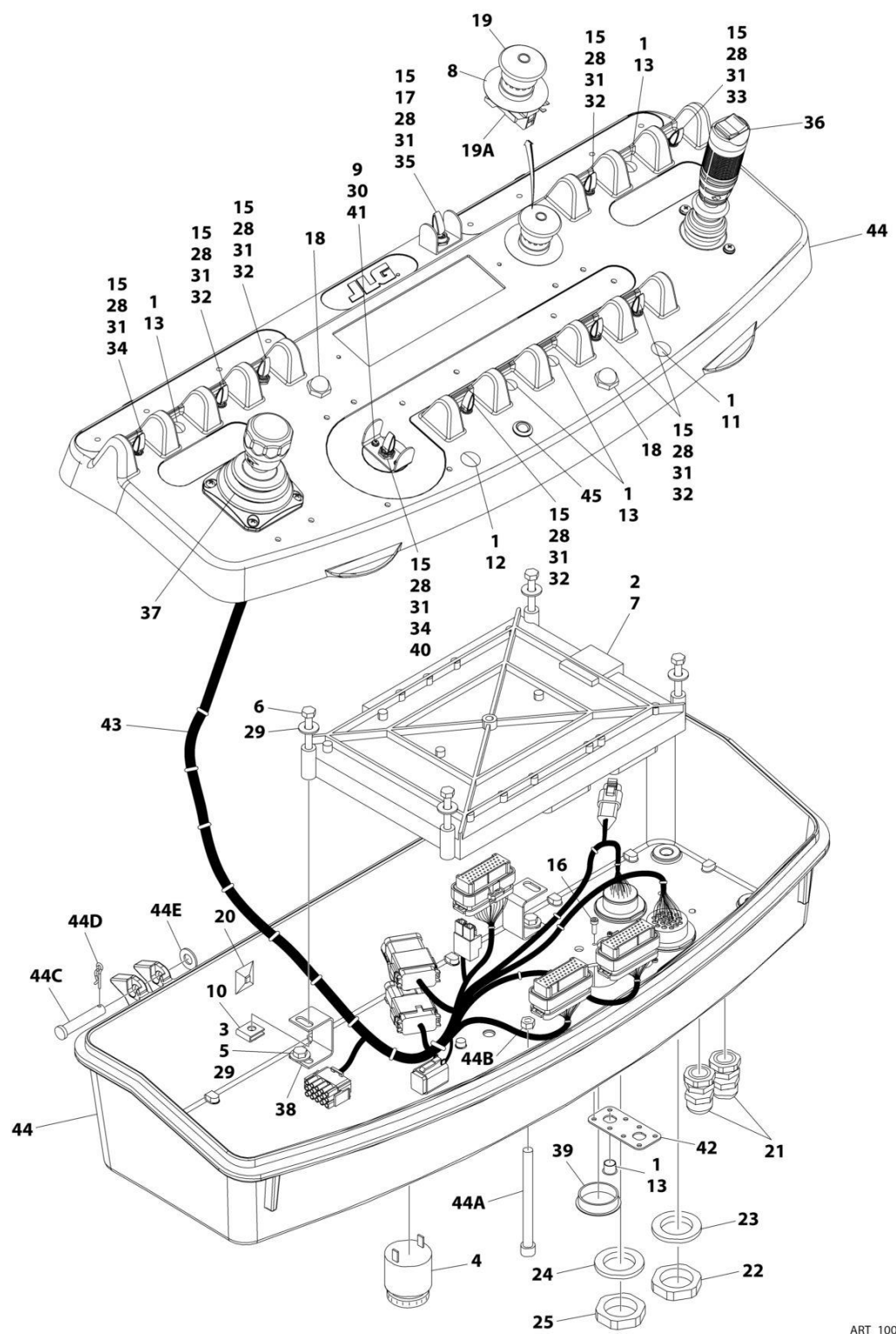
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FIGURE 5-12. CONSOLE BOX SUB-ASSEMBLY (ENGLISH LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001255826	Ref	CONSOLE BOX SUB-ASSEMBLY (ENGLISH LANGUAGE)	A
1	1702565	1	Decal - Drive/Steer Selection	
2	1702566	1	Decal - Lift/Swing Selection	
3	1704260	1	Decal - EMS	
4	1705744	1	Decal - Horn	
5	1705745	1	Decal - Function Speed Selection	
6	1706741	1	Decal - Boom Control Selection	
7	1001131168	1	Decal, Stop	
8	1001255827	1	Console Box Assembly (See Separate Breakdown in this Section)	

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FIGURE 5-13. CONSOLE BOX ASSEMBLY (ENGLISH LANGUAGE)



ART_1001248460_D

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FIGURE 5-13. CONSOLE BOX ASSEMBLY (ENGLISH LANGUAGE)

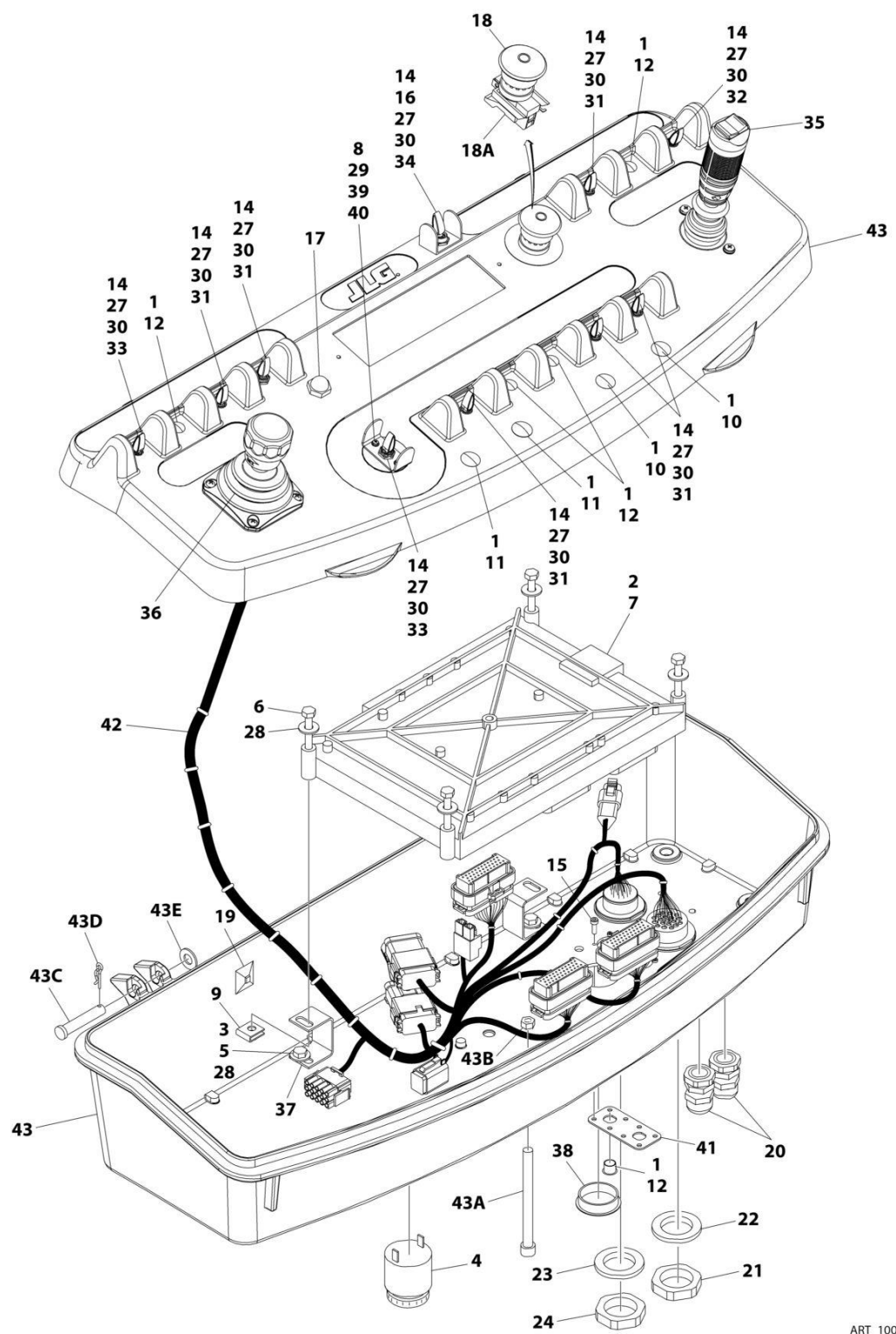
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248460	Ref	PLATFORM CONSOLE ASSEMBLY	D
1	0100009	AR	Sealant	
2	0100048	AR	Grease, Dielectric	
3	0100035	AR	Compound, Locking	
4	0140011	1	Alarm	
5	0641404	4	Bolt 1/4 x 1/2	
6	0641414	4	Bolt 1/4 x 1-3/4	
7	1600343	1	Module, Platform (Note: Re-calibration Required when Replaced)	
8	1704260	1	Decal - Emergency Stop	
9	3290305	2	Nut M3	
10	3300353	4	Nut, Tinnerman	
11	3520026	1	Plug, Hole	
12	3520027	1	Plug, Hole	
13	3520054	5	Plug, Hole	
14	3520174	3	Plug, Hole (Not Shown)	
15	3790012	10	O-Ring	
16	3900349	8	Capscrew M2.5	
17	4060906	1	Guard, Switch	
18	4360387	2	Switch, Push Button	
19	4360475	1	Switch, Emergency Stop	
19	7020175	1	Cap, Red	
19A	7020176	1	Contact, Block	
20	4460234	3	Base, Mounting	
21	4460428	2	Connector, Strain Relief	
22	4460470	1	Nut, Terminal	
23	4460471	1	Washer, Terminal	
24	4460496	1	Washer, Terminal	
25	4460497	1	Nut, Terminal	
26	4460708	1	Terminal (Not Shown)	
27	4460905	AR	Plug, Terminal (Not Shown)	
28	4740397	10	Washer	
29	4751400	8	Washer 1/4	
30	1001110544	4	Washer M3	
31	1001155044	10	Nut 15/32	
32	1001155045	6	Switch, Toggle	
33	1001159256	1	Switch, Toggle	
34	1001161709	2	Switch, Toggle	
35	1001161710	1	Switch, Toggle	
36	1001166538	NLA	Controller Assembly (Drive and Steer) (Use p/n 1001212415) (See Separate Breakdown in this Section)	
37	1001166539	NLA	Controller Assembly (Lift and Swing) (Use p/n 1001129555) (See Separate Breakdown in this Section)	
38	1001172760	4	Bracket	
39	1001185281	1	Plug	
40	1001196744	1	Guard, Switch	
41	1001198576	2	Screw M3 x 10	
42	1001213882	1	Mount, Connector	
43	1001243596	1	Platform Console Harness (See Separate Breakdown in ELECTRICAL Section)	
44	1001249886	1	Box, Console	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44A	0630568	1	Screw 3/8 x 4-1/2	
44B	3311601	1	Nut 3/8	
44C	3430616	2	Pin	
44D	3470003	2	Pin	
44E	4711600	2	Washer 3/8	
45	1001206532	1	Light, Indicator	

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FIGURE 5-14. CONSOLE BOX ASSEMBLY



ART_1001255827

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FIGURE 5-14. CONSOLE BOX ASSEMBLY

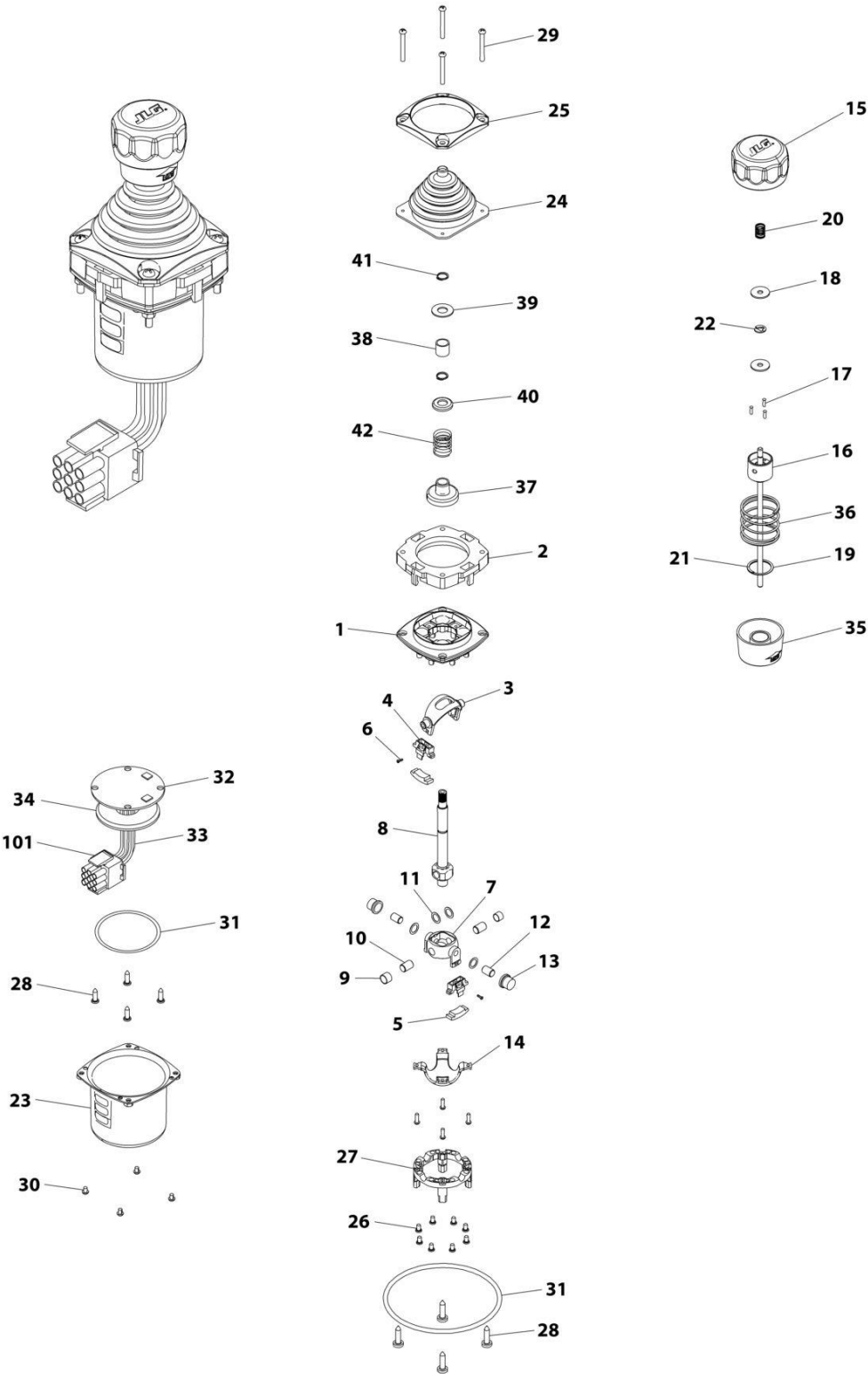
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001255827	Ref	CONSOLE BOX ASSEMBLY	B
1	0100009	AR	Sealant	
2	0100048	AR	Grease, Dielectric	
3	0100035	AR	Compound, Locking	
4	0140011	1	Alarm	
5	0641404	4	Bolt 1/4 x 1/2	
6	0641414	4	Bolt 1/4 x 1-3/4	
7	1600343	1	Module, Platform (Note: Re-calibration Required when Replaced)	
8	3290305	2	Nut M3	
9	3300353	4	Nut, Tinnerman	
10	3520026	2	Plug, Hole	
11	3520027	2	Plug, Hole	
12	3520054	5	Plug, Hole	
13	3520174	3	Plug, Hole (Not Shown)	
14	3790012	10	O-Ring	
15	3900349	8	Capscrew M2.5	
16	4060906	1	Guard, Switch	
17	4360387	1	Switch, Push Button	
18	4360475	1	Switch, Emergency Stop	
18	7020175	1	Cap, Red	
18A	7020176	1	Contact, Block	
19	4460234	3	Base, Mounting	
20	4460428	2	Connector, Strain Relief	
21	4460470	1	Nut, Terminal	
22	4460471	1	Washer, Terminal	
23	4460496	1	Washer, Terminal	
24	4460497	1	Nut, Terminal	
25	4460708	1	Terminal (Not Shown)	
26	4460905	AR	Plug, Terminal (Not Shown)	
27	4740397	10	Washer	
28	4751400	8	Washer 1/4	
29	1001110544	4	Washer M3	
30	1001155044	10	Nut 15/32	
31	1001155045	6	Switch, Toggle	
32	1001159256	1	Switch, Toggle	
33	1001161709	2	Switch, Toggle	
34	1001161710	1	Switch, Toggle	
35	1001166538	NLA	Controller Assembly (Drive and Steer) (Use p/n 1001212415) (See Separate Breakdown in this Section)	
36	1001166539	NLA	Controller Assembly (Lift and Swing) (Use p/n 1001129555) (See Separate Breakdown in this Section)	
37	1001172760	4	Bracket	
38	1001185281	1	Plug	
39	1001196744	1	Guard, Switch	
40	1001198576	2	Screw M3 x 10	
41	1001213882	1	Mount, Connector	
42	1001243596	1	Platform Console Harness (See Separate Breakdown in ELECTRICAL Section)	
43	1001255828	1	Box, Console	
43A	0630568	1	Screw 3/8 x 4-1/2	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43B	3311601	1	Nut 3/8	
43C	3430616	2	Pin	
43D	3470003	2	Pin	
43E	4711600	2	Washer 3/8	

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FIGURE 5-15. CONTROLLER ASSEMBLY (LIFT AND SWING)



ART_1001166539

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FIGURE 5-15. CONTROLLER ASSEMBLY (LIFT AND SWING)

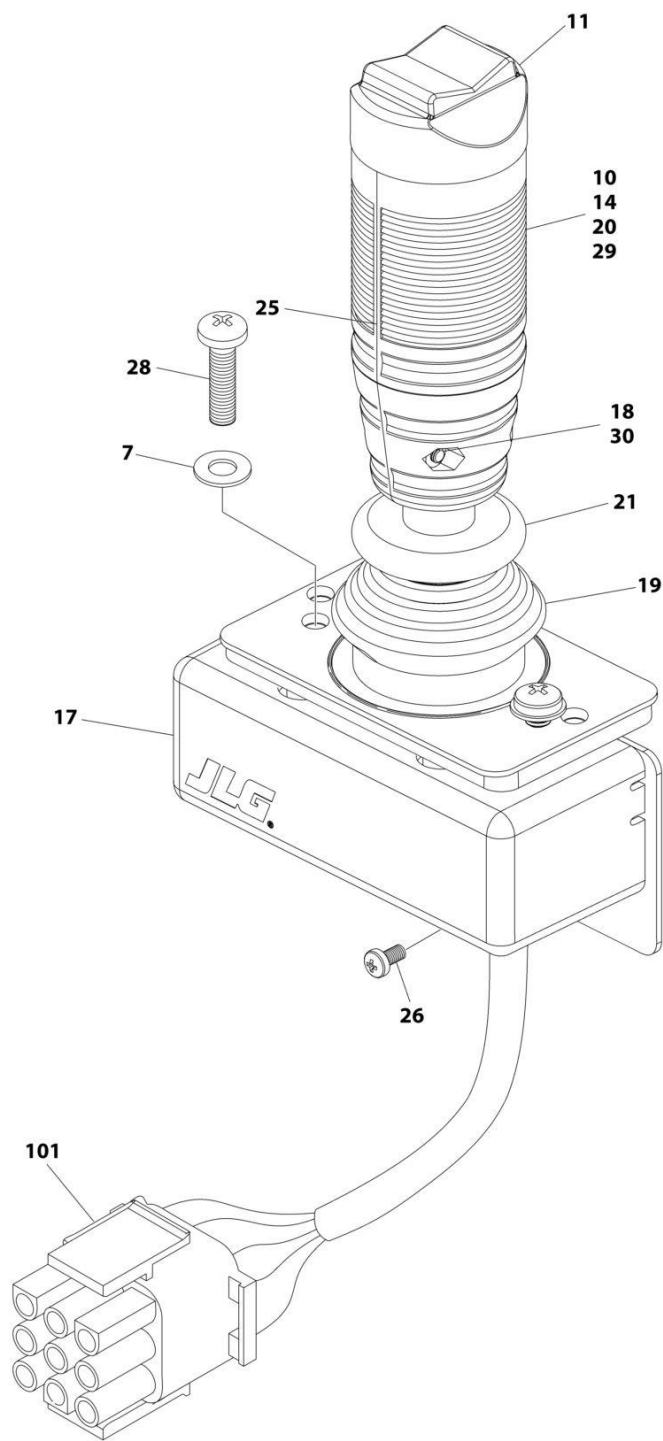
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166539	Ref	CONTROLLER ASSEMBLY	E
		Ref	Note: Original Equipment Controller May Have Been Replaced with Service Replacement Controller. Visually Identify Controller Before Ordering Parts.	
		Ref	Note: For Replacement, Use p/n 1001129555	
1	See Note	NSS	Main Cast Body (Note: Not Available - Purchase Complete Assembly)	
2	70004752	1	Adapter	
3	See Note	NSS	Pivot Arm, Plastic (Note: Not Available - Purchase Complete Assembly)	
4	See Note	NSS	Holder, Magnet (Note: Not Available - Purchase Complete Assembly)	
5	See Note	NSS	Arc, Magnet (Note: Not Available - Purchase Complete Assembly)	
6	See Note	NSS	Screw (Note: Not Available for Purchase)	
7	See Note	NSS	Pivot Arm, Cast (Note: Not Available - Purchase Complete Assembly)	
8	See Note	NSS	Shaft, Main (Note: Not Available - Purchase Complete Assembly)	
9	See Note	NSS	Bearing (Note: Not Available - Purchase Complete Assembly)	
10	See Note	NSS	Pin (Note: Not Available - Purchase Complete Assembly)	
11	See Note	NSS	Shim (Note: Not Available - Purchase Complete Assembly)	
12	See Note	NSS	Pin (Note: Not Available - Purchase Complete Assembly)	
13	See Note	NSS	Bearing (Note: Not Available - Purchase Complete Assembly)	
14	See Note	NSS	Dome, Centering (Note: Not Available - Purchase Complete Assembly)	
15	70004753	1	Cap	
16	70004754	1	Insert, Cap	
17	70004755	3	Pin	
18	70004756	2	Washer	
19	70004757	1	Pin, Centering	
20	70004758	1	Spring	
21	70004759	1	Ring, Retaining	
22	70004760	1	E-Ring	
23	70004761	1	Can, Enclosure	
24	70004762	1	Boot	
25	70004763	1	Bezel	
26	See Note	NSS	Screw (Note: Not Available for Purchase)	
27	See Note	NSS	Base Mounting (Note: Not Available - Purchase Complete Assembly)	
28	See Note	NSS	Screw (Note: Not Available for Purchase)	
29	70004764	4	Screw	
30	70004765	4	Screw	
31	70004766	1	O-Ring	
32	See Note	NSS	Plate (Note: Not Available - Purchase Complete Assembly)	
33	See Note	NSS	Harness (Note: Not Available - Purchase Complete Assembly)	
34	70004767	1	Grommet, Rubber	
35	70004768	1	Housing	
36	70004769	1	Spring	
37	70004770	1	Stopper	
38	70004771	1	Spacer	
39	70004772	1	Washer	
40	70004773	1	Disc	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	70004774	2	Ring, Retaining	
42	70004775	1	Spring	
101	4460265	1	Connector - 9 Position	
101	4460226	6	Socket, Female	

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FIGURE 5-16. CONTROLLER ASSEMBLY (DRIVE AND STEER)



ART_1001166538

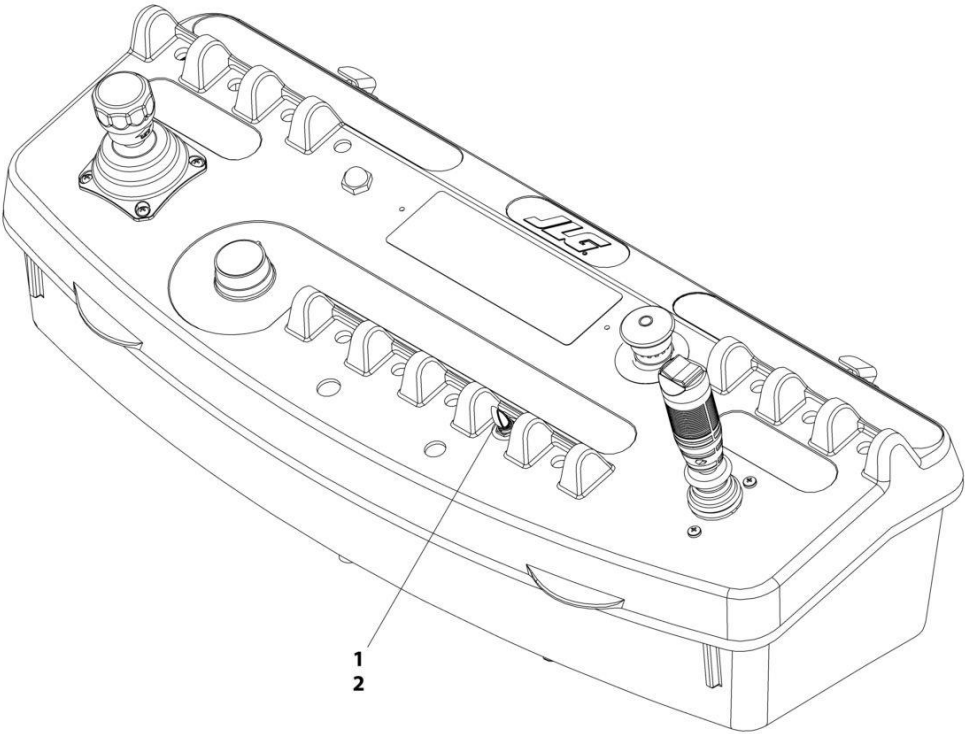
SECTION 5 - PLATFORM

FIGURE 5-16. CONTROLLER ASSEMBLY (DRIVE AND STEER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166538	Ref	CONTROLLER ASSEMBLY - DRIVE AND STEER	G
		Ref	Note: For Replacement, Use p/n 1001212415.	
7	70004738	2	Washer	
10	70004739	1	Roller	
11	70004740	1	Boot, Switch	
14	70004741	2	Half, Handle	
17	70004742	1	Enclosure	
18	70004743	4	Nut	
19	70004744	NLA	Boot, Controller (Use p/n 70005230 Boot/Base Assembly)	
20	70004745	NLA	Tube, Locking (Use p/n 70005230 Boot/Base Assembly)	
21	70004746	NLA	Disc, Locking (Use p/n 70005230 Boot/Base Assembly)	
25	70004747	2	Seal, Rope	
26	70004748	1	Screw M3 x 6	
28	70004749	2	Screw M5 x 20	
29	70004750	1	Pin, Dowel	
30	70004751	4	Screw M3 x 16	
101	4460265	1	Connector - 9 Position	
101	4460226	7	Socket, Female	

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FIGURE 5-17. JIB SWITCH INSTALLATION - 1100SJ



ART_0271340

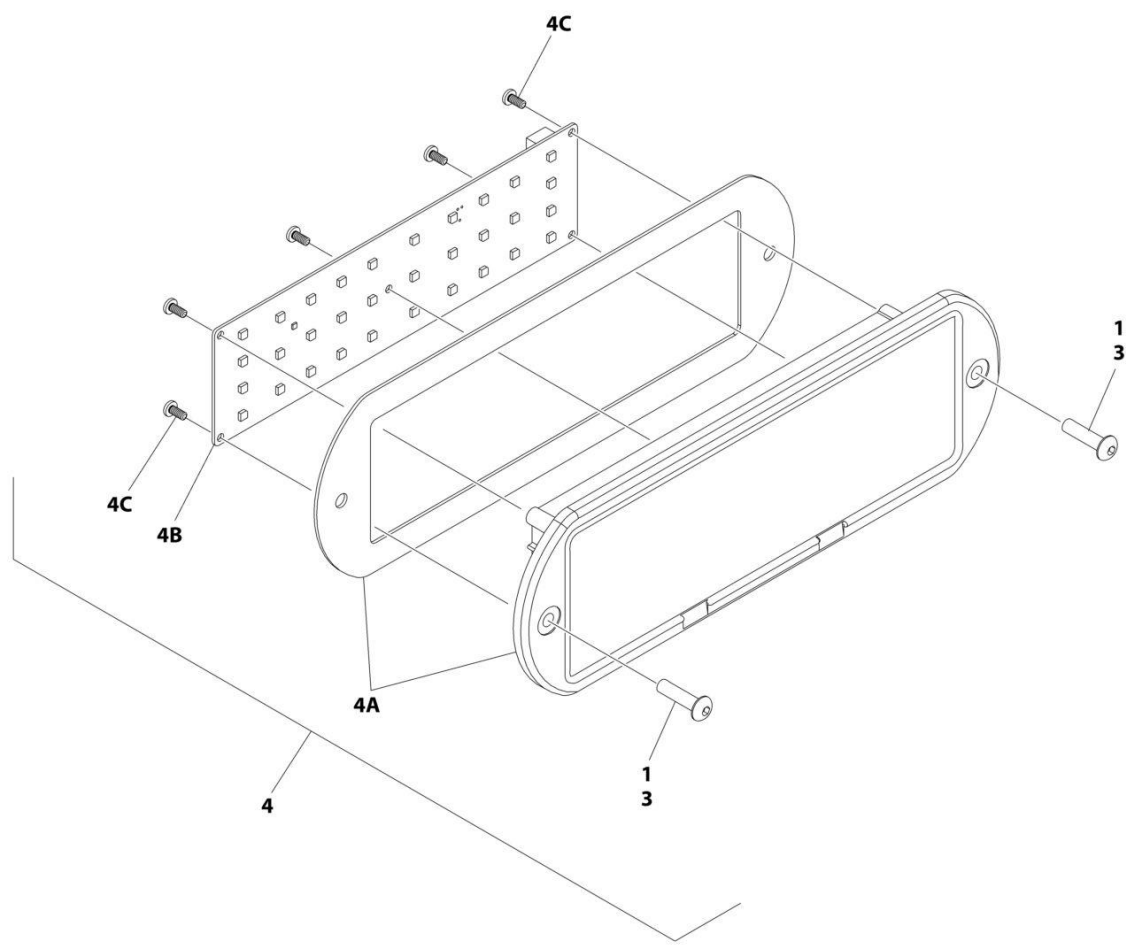
SECTION 5 - PLATFORM

FIGURE 5-17. JIB SWITCH INSTALLATION - 1100SJ

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0271340	Ref	JIB SWITCH INSTALLATION	1/A
1	4360328	1	Switch, Toggle	
2	3790012	1	O-Ring	

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FIGURE 5-18. LIGHT PANEL INSTALLATION



ART_1001241403_2OF2

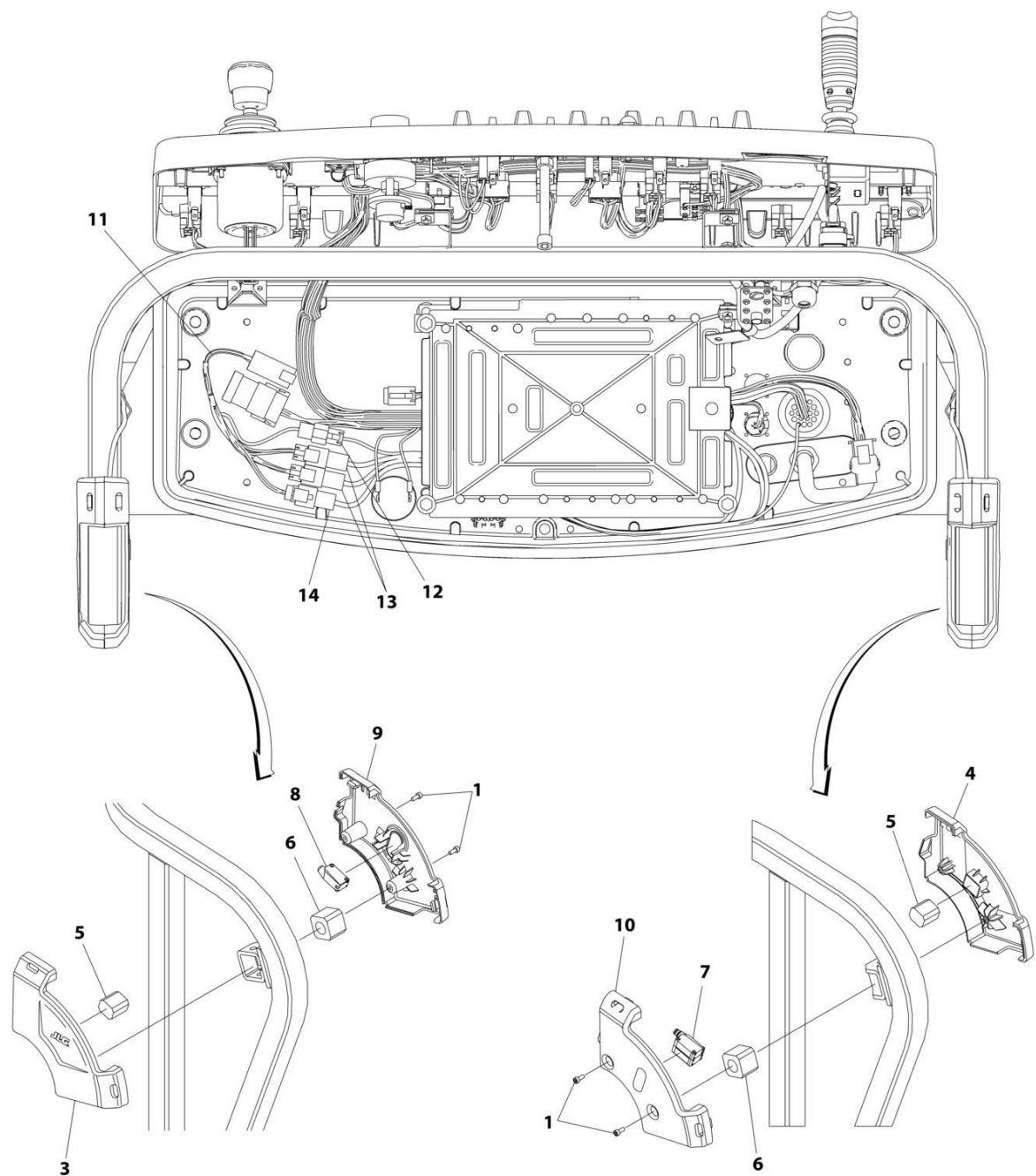
SECTION 5 - PLATFORM

FIGURE 5-18. LIGHT PANEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241403	Ref	LIGHT PANEL INSTALLATION - PLATFORM CONSOLE	C
1	3300408	1	Nut, Nylon Insert	H
3	0630518	2	Screw #10 x 3/4	
4	1001238672	1	Light Panel Electrical Assembly	
4A	1001236089	1	Lens Assembly (Includes Housing Shell, Decal/Lens with Icons & Gasket)	
4B	1001238732	1	Panel, LED Light	
4C		Ref	Screw	

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FIGURE 5-19. SKYEYE INSTALLATION



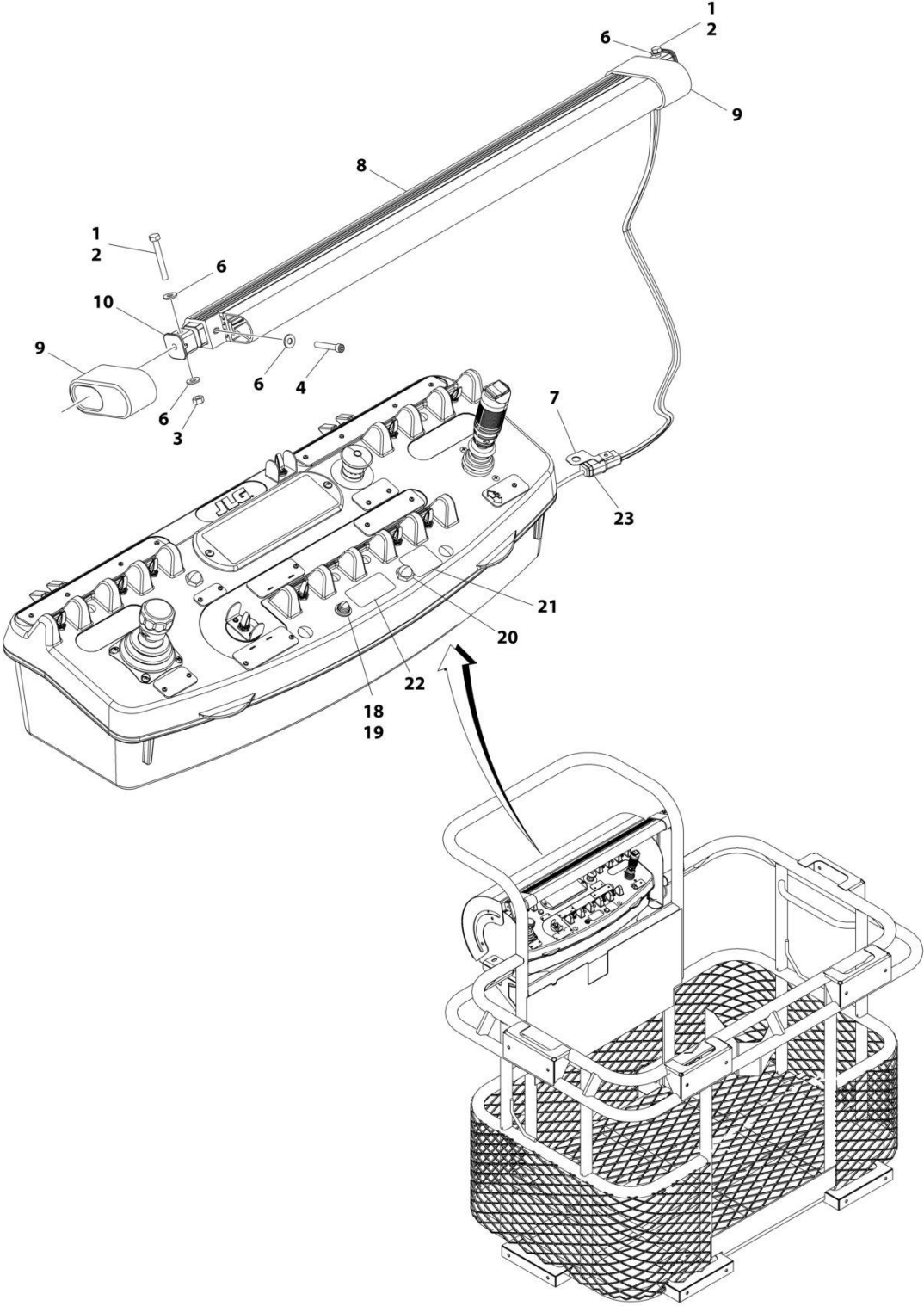
ART_1001229341

FIGURE 5-19. SKYEYE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229341	Ref	SKYEYE INSTALLATION	B
1	4031505	4	Bolt M4 x 10	
2	4240033	AR	Tie-Strap (Not Shown)	
3	1001227633	1	Housing, LH Outer	
4	1001227634	1	Housing, RH Outer	
5	1001227985	2	Shim	
6	1001227987	2	Shim	
7	1001228224	2	Sensor, Receiver	
8	1001228225	1	Sensor, Emitter	
9	1001232164	1	Housing, LH Inner	
10	1001232165	1	Housing, RH Inner	
11	1001237865	1	Harness, Skyeye Intermediate (See Separate Breakdown in ELECTRICAL Section)	
12	1001238319	NLA	Harness, Skyeye Drain Jumper	
12	1001187674	1	Plug, Male - 2 Position	
12	4460942	1	Terminal	
12	4460466	1	Plug, Terminal	
12	4460508	1	Pin, Male	
13	1001237863	2	Harness, Skyeye Receiver (See Separate Breakdown in ELECTRICAL Section)	
14	1001237864	1	Harness, Skyeye Emitter (See Separate Breakdown in ELECTRICAL Section)	

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FIGURE 5-20. SKYGUARD INSTALLATION



ART_1001153444

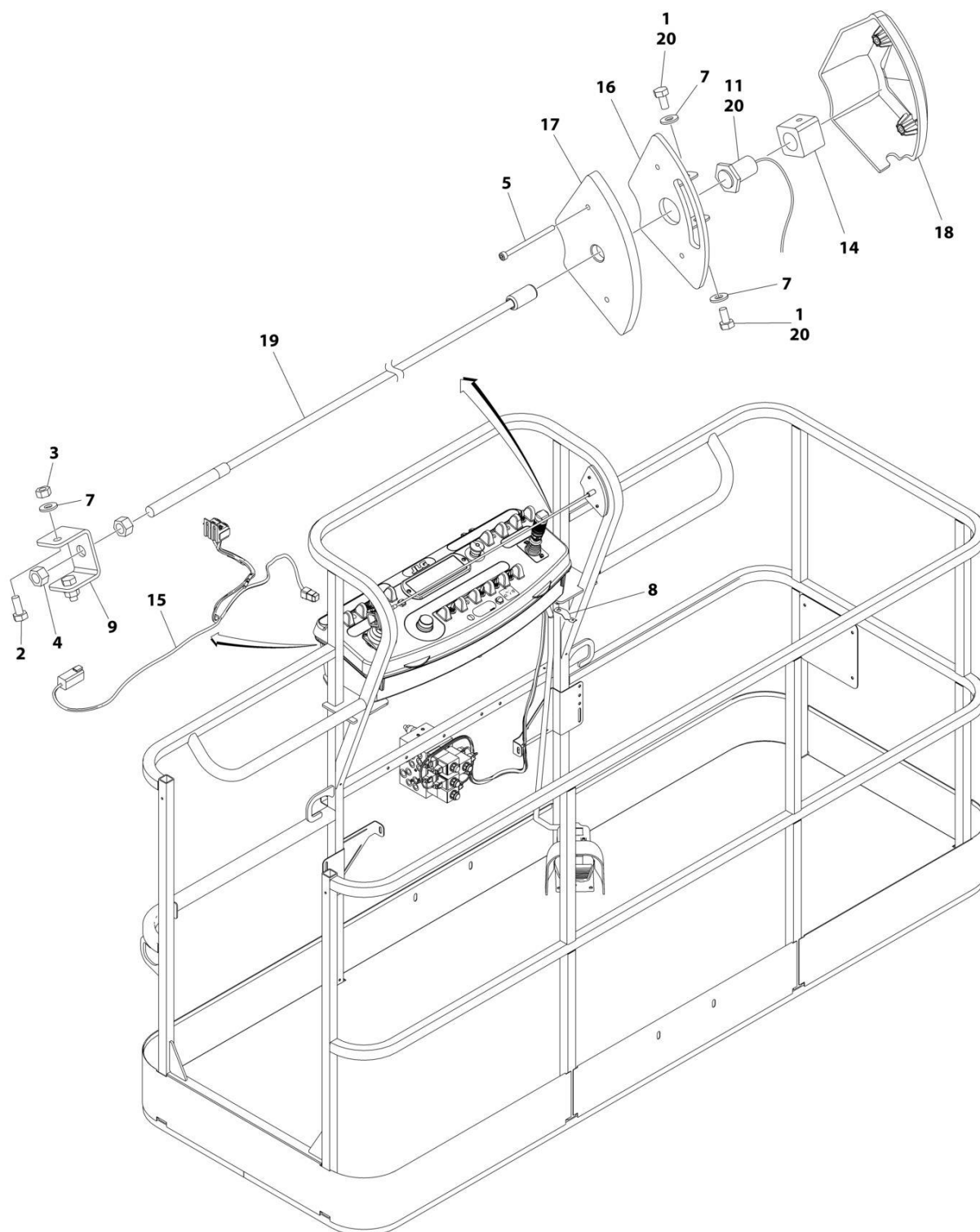
SECTION 5 - PLATFORM

FIGURE 5-20. SKYGUARD INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001153444	Ref	SKYGUARD INSTALLATION	G
1	0100011	AR	Compound, Locking	
2	0641416	2	Bolt 1/4 x 2	
3	3311405	2	Nut 1/4	
4	3931408	2	Capscrew 1/4 x 1/2	
5	4240033	4	Tie-Strap (Not Shown)	
6	4711400	6	Washer 1/4	
7	1001120328	1	Mount, Terminal	
8	1001137673	1	SkyGuard Switch Assembly	
9	1001186517	2	Cover, Platform Sensor	
10	1001209664	1	Suport	
18	2920028	1	Lamp, Indicator	
19	2920029	1	Bulb, Light	
20	4360387	1	Switch, Push Button	
21	1001144433	1	Decal - No Weight SkyGuard	
22	1001224978	1	Decal - Platform Sensor Override	
23	1001199904	1	SkyGuard Sensor Harness (See Separate Breakdown in ELECTRICAL Section)	

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FIGURE 5-21. SKYLINE INSTALLATION



ART_1001238559_D

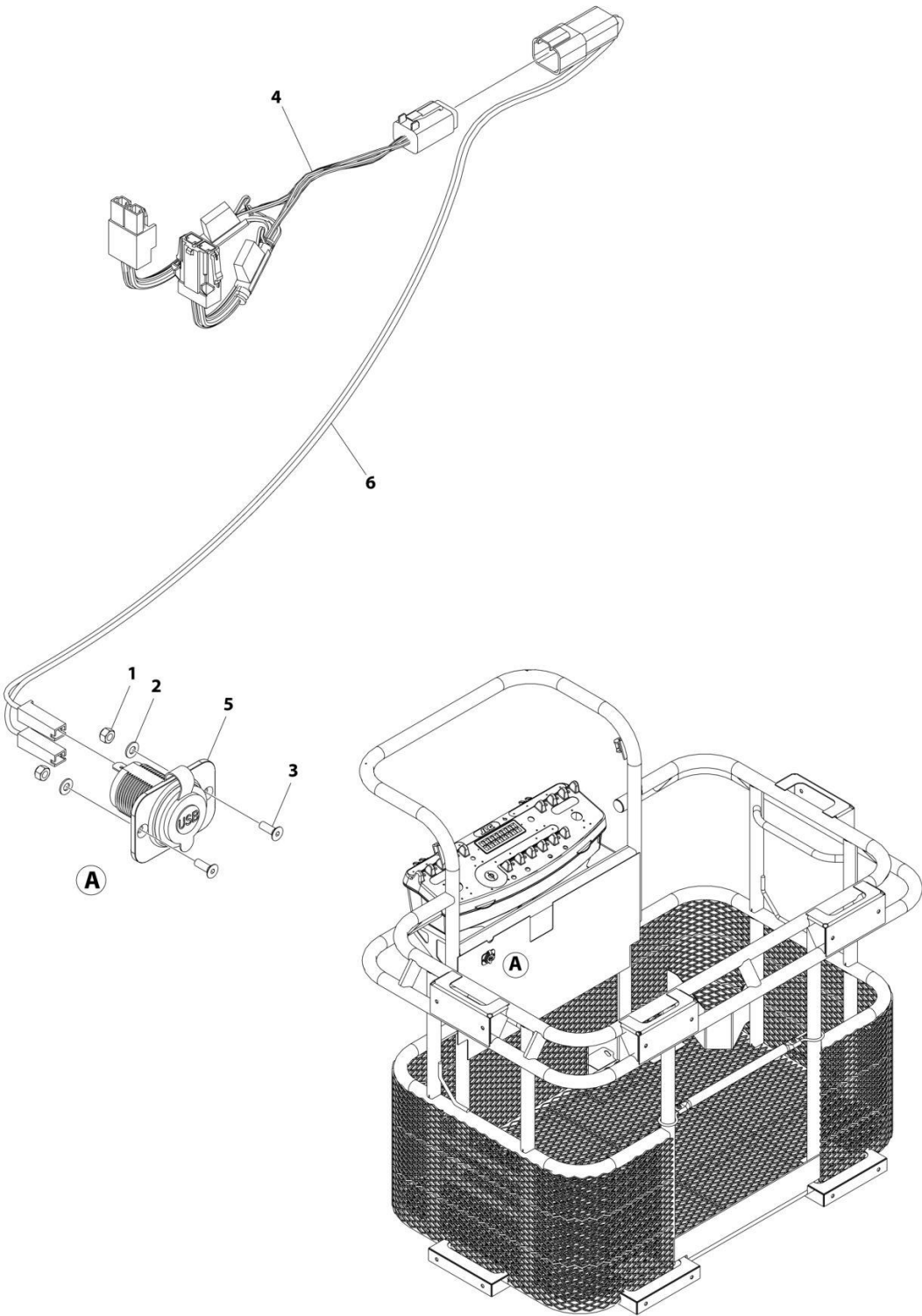
SECTION 5 - PLATFORM

FIGURE 5-21. SKYLINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238559	Ref	SKYLINE INSTALLATION	D
1	0641404	2	Bolt 1/4 x 1/2	
2	0641405	2	Bolt 1/4 x 5/8	
3	3311405	2	Nut 1/4	
4	3311601	2	Nut 3/8	
5	4031516	2	Capscrew M4 x 60	
6	4240033	AR	Tie-Strap (Not Shown)	
7	4711400	4	Washer 1/4	
8	1001120328	1	Mount	
9	1001232642	1	Bracket	
11	1001232667	1	Sensor, Proximity	
11	1001311034	1	Sensor, Proximity	
14	1001236552	1	Block	
15	1001238418	1	Harness, Skyline (See Separate Breakdown in ELECTRICAL Section)	
16	1001238472	1	Mount	
17	1001254473	1	Housing, LH	
18	1001241965	1	Housing, RH	
19	1001254472	1	Rod	
20	0100011	AR	Compound, Locking	

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FIGURE 5-22. USB CHARGER INSTALLATION



ART_1001274527

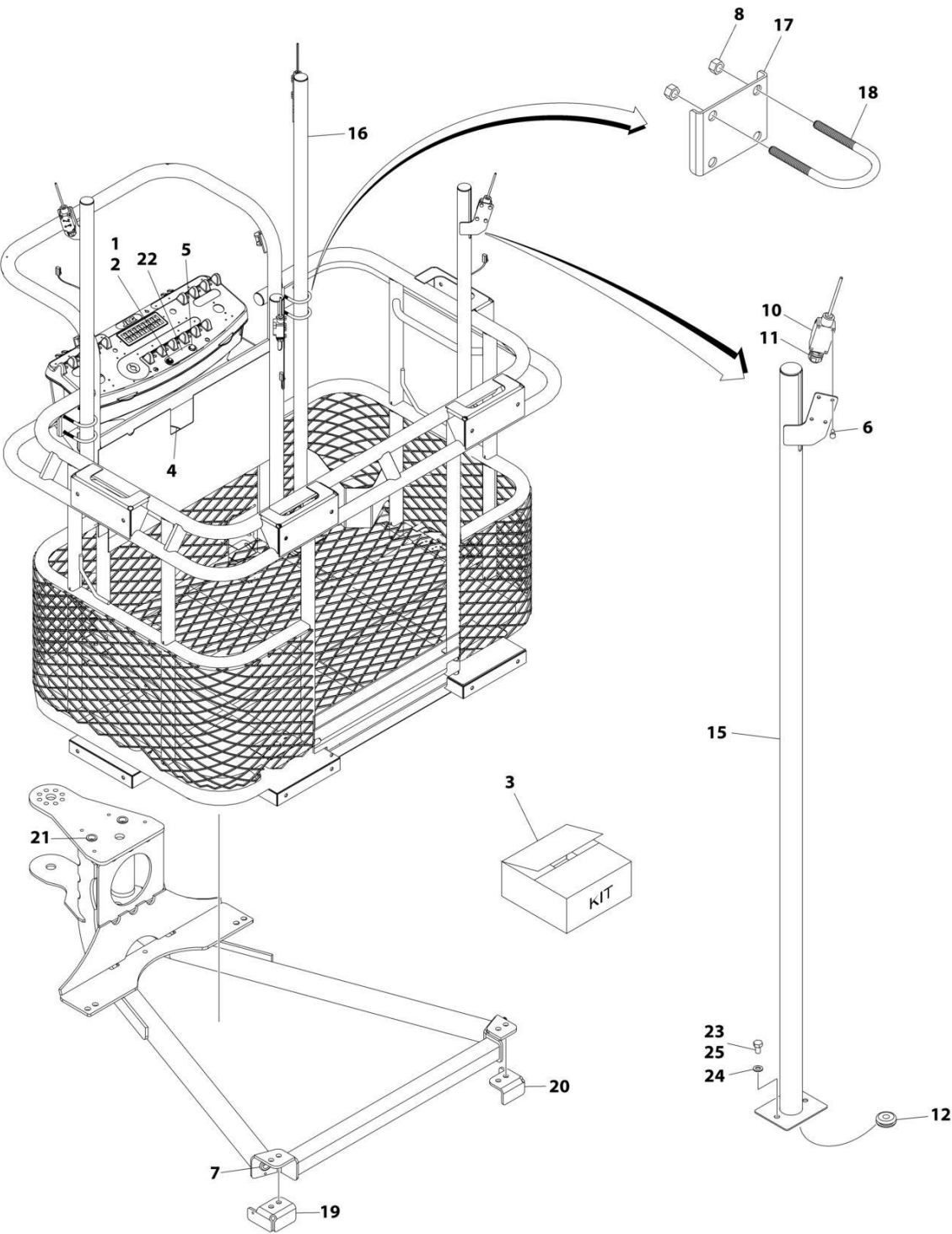
SECTION 5 - PLATFORM

FIGURE 5-22. USB CHARGER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001274527	Ref	USB CHARGER INSTALLATION	A
1	3290405	2	Nut M4	
2	4811400	2	Washer M4	
3	1001097244	2	Screw M4 x 12	
4	1001120484	1	Harness, Work Lights	
4	4460879	1	Plug, Male - 2 Position	
4	4460887	4	Terminal	
4	2400060	2	Fuseholder Includes Cover	
4	4460884	1	Connector - 4 Position	
4	4460465	4	Socket, Female	
4	1001120471	1	Connector - 2 Position	
4	1001120477	4	Terminal	
5	1001210636	1	Receptacle, USB	
6	1001265163	1	Harness, USB	A
6	4460260	2	Cover, Terminal	
6	4460259	2	Terminal	
6	4460932	1	Receptacle, Bussbar - 4 Position	
6	4460464	2	Pin, Male	
6	4460466	2	Plug, Terminal	

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FIGURE 5-23. OVERHEAD PROTECTION INSTALLATION - WITHOUT LSS (KOREAN/CHINA SPECS)



ART_1001150098

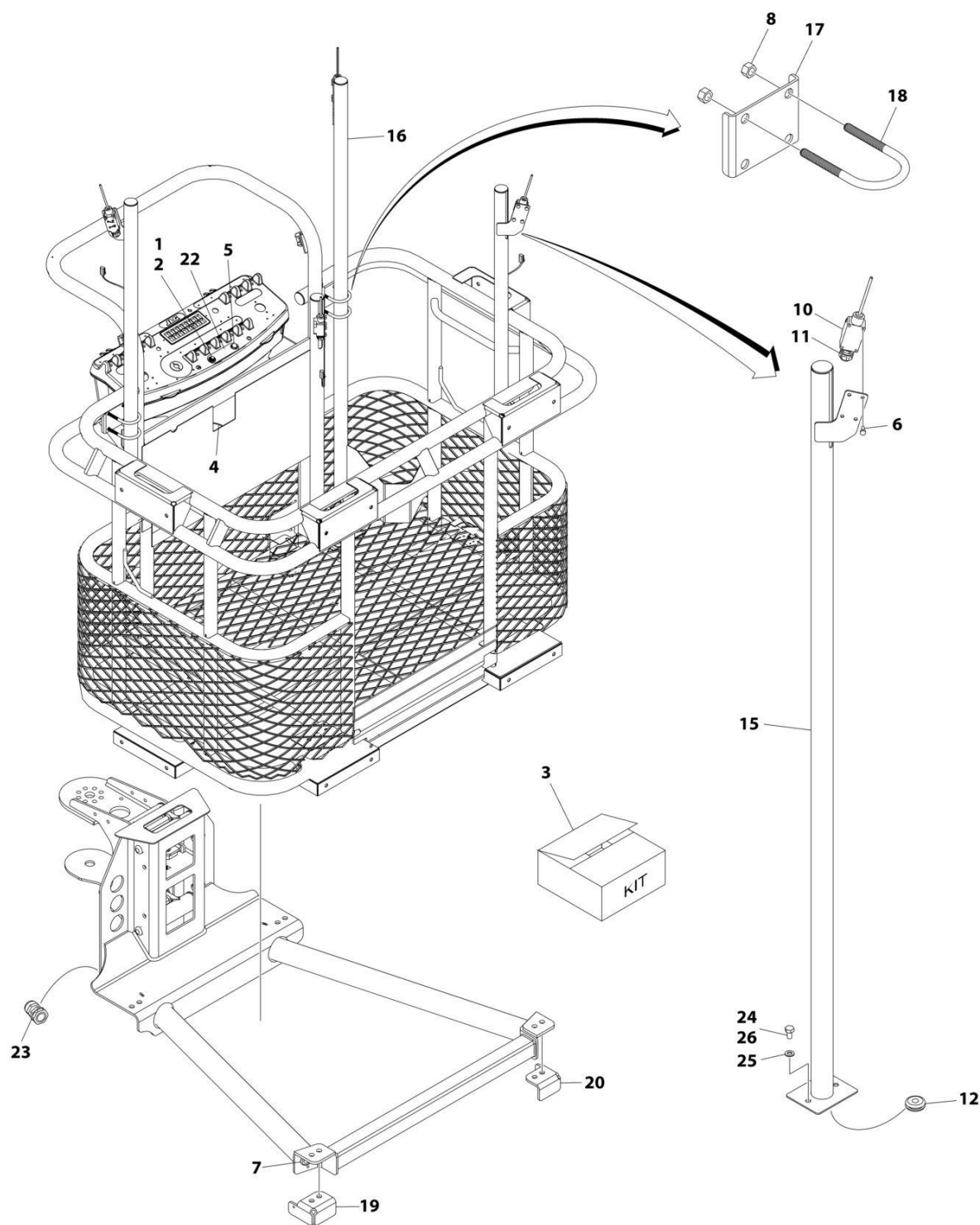
SECTION 5 - PLATFORM

FIGURE 5-23. OVERHEAD PROTECTION INSTALLATION - WITHOUT LSS (KOREAN/CHINA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150098	Ref	OVERHEAD PROTECTION INSTALLATION - WITHOUT LSS (KOREAN/CHINA SPECS)	D
1	2920028	1	Light, Indicator	
2	2920029	1	Bulb	
3	1001151061	1	Accessory, O/H Soft Touch Kit (Includes Items 6-21 & 23-25)	
4	1001151201	1	Harness, Soft Touch (See Separate Breakdown in ELECTRICAL SECTION)	
5	4360387	1	Switch, Push Button	
6	0641405	16	Bolt 1/4 x 5/8	
7	2540038	2	Grommet	
8	3311605	16	Nut 3/8	
9	4240099	12	Tie-Strap (Not Shown)	
10	4360477	4	Switch, Proximity	
11	4460662	4	Connector, Strain Relief	
12	1001090615	4	Grommet	
14	1001121576	1	Cover (Not Shown)	
15	1001150698	2	Tube	
16	1001150699	2	Tube	
17	1001151027	4	Plate	
18	1001151028	8	Bolt	
19	1001151651	1	Shield	
20	1001151652	1	Shield	
21	1001151731	2	Grommet	
22	1001113691	1	Decal - Soft Touch Override	
23	0761009	8	Bolt M10 x 18	
24	4812000	8	Washer M10	
25	0100011	AR	Compound, Locking	

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FIGURE 5-24. OVERHEAD PROTECTION INSTALLATION - WITH LSS (KOREAN/CHINA SPECS)



ART_1001206605

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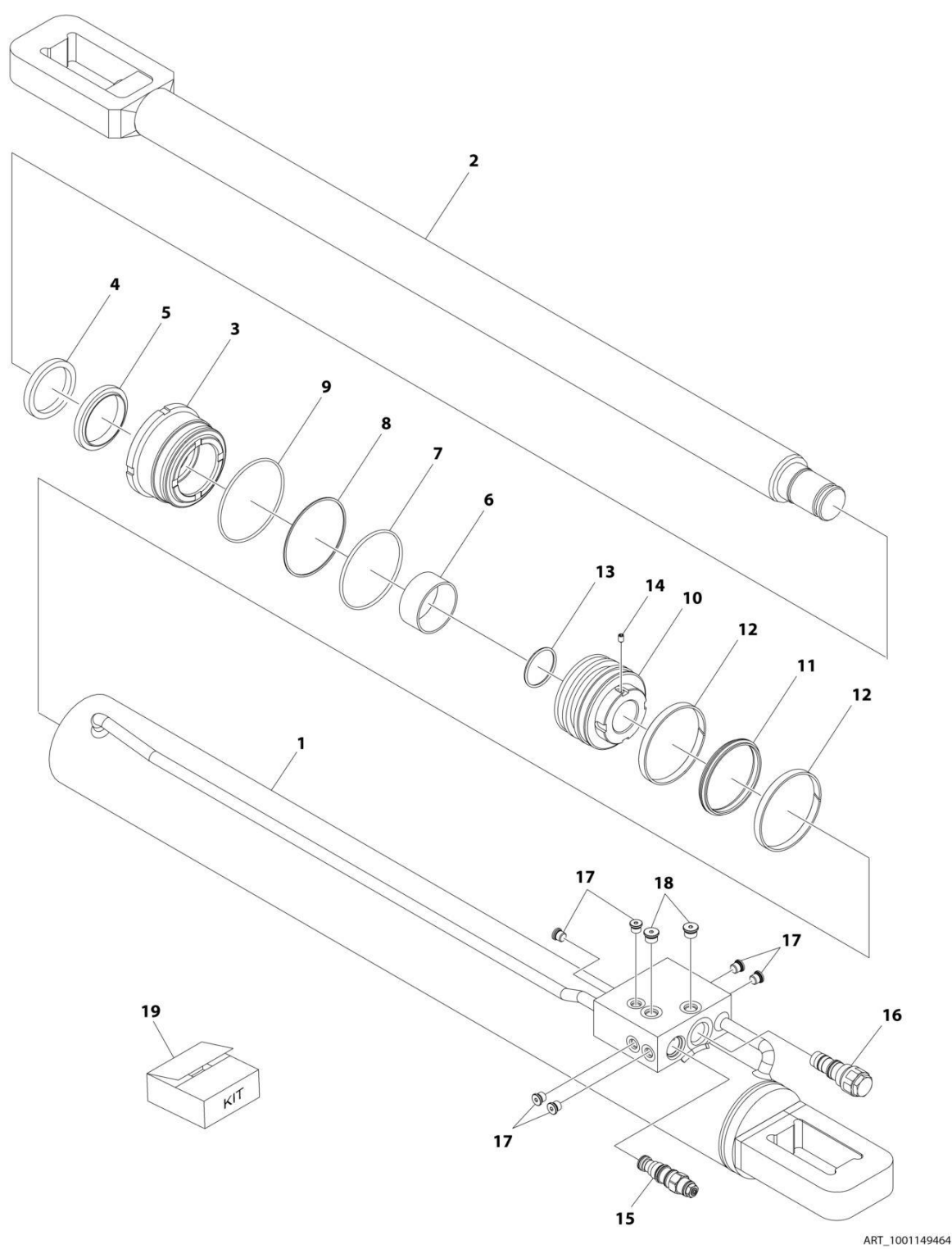
FIGURE 5-24. OVERHEAD PROTECTION INSTALLATION - WITH LSS (KOREAN/CHINA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206605	Ref	OVERHEAD PROTECTION INSTALLATION - WITH LSS (KOREAN/CHINA SPECS)	C
1	2920028	1	Light, Indicator	
2	2920029	1	Bulb	
3	1001151061	1	Accessory, O/H Soft Touch Kit (Includes Items 6-20 & 24-26)	
4	1001151201	1	Harness, Soft Touch (See Separate Breakdown in ELECTRICAL SECTION)	
5	4360387	1	Switch, Push Button	
6	0641405	16	Bolt 1/4 x 5/8	
7	2540038	2	Grommet	
8	3311605	16	Nut 3/8	
9	4240099	12	Tie-Strap (Not Shown)	
10	4360477	4	Switch, Proximity	
11	4460662	4	Connector, Strain Relief	
12	1001090615	4	Grommet	
14	1001121576	1	Cover (Not Shown)	
15	1001150698	2	Tube	
16	1001150699	2	Tube	
17	1001151027	4	Plate	
18	1001151028	8	Bolt	
19	1001151651	1	Shield	
20	1001151652	1	Shield	
22	1001113691	1	Decal - Soft Touch Override	
23	4460968	2	Connector, Strain Relief	
24	0761009	8	Bolt M10 x 18	
25	4812000	8	Washer M10	
26	0100011	AR	Compound, Locking	

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FIGURE 6-1. AXLE EXTEND CYLINDER ASSEMBLY



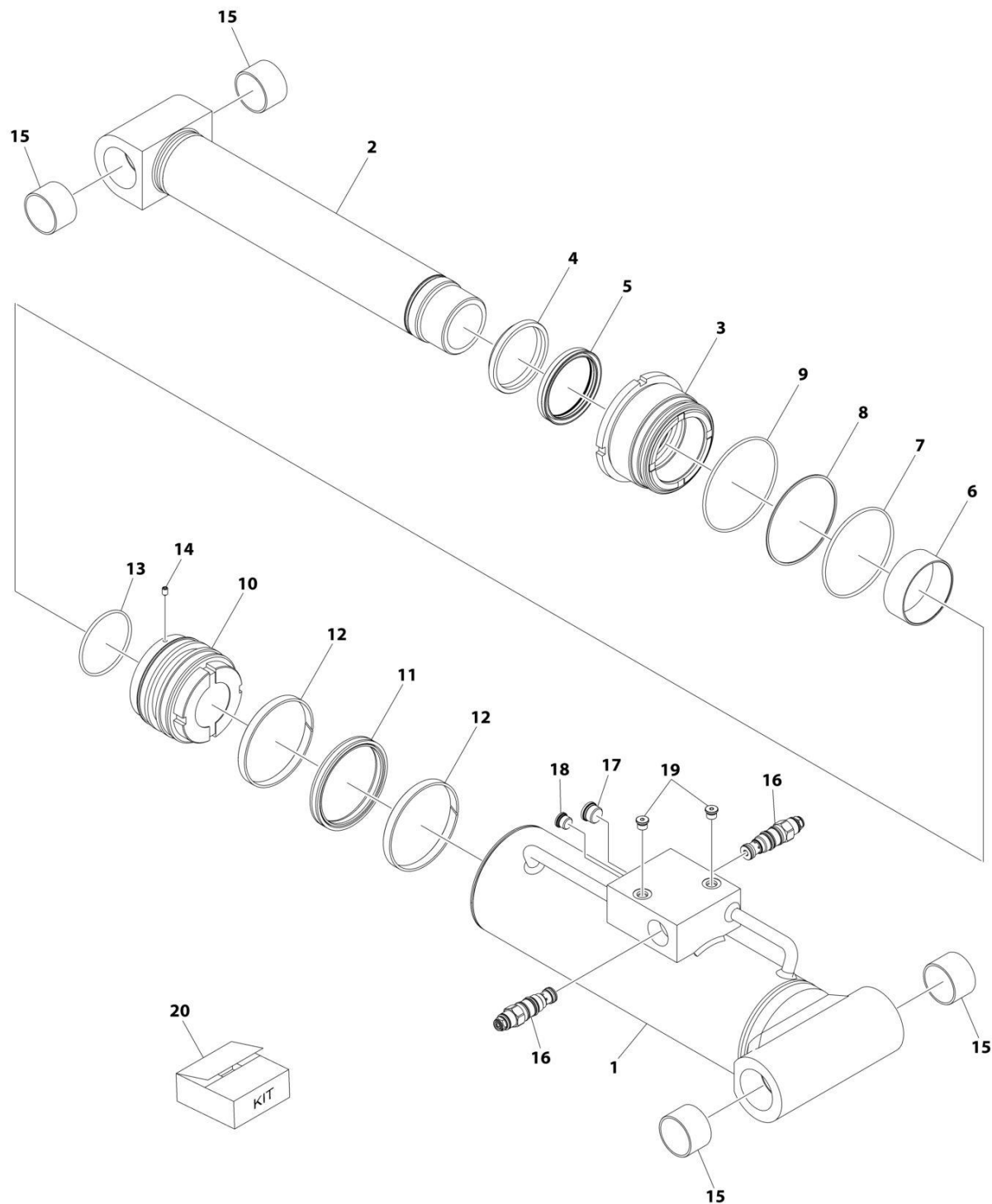
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FIGURE 6-1. AXLE EXTEND CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149464	Ref	AXLE EXTEND CYLINDER ASSEMBLY	D
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005850	1	Barrel	
2	70005851	1	Rod	
3	70005852	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 19)	
5	See Note	NSS	Seal, Rod (Note: Use Item 19)	
6	70004637	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 19)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 19)	
9	See Note	NSS	O-Ring (Note: Use Item 19)	
10	70005853	1	Piston	
11	See Note	NSS	Seal, Piston (Note: Use Item 19)	
12	See Note	NSS	Ring, Wear (Note: Use Item 19)	
13	See Note	NSS	O-Ring (Note: Use Item 19)	
14	70005847	1	Setscrew	
15	70005888	1	Cartridge, Valve - Counterbalance	
15	2900770	1	Seal Kit - 70005888 Valve	
16	4640509	1	Cartridge, Valve - Counterbalance	
16	2900792	1	Seal Kit - 4640509 Valve	
17	2220883	6	Plug	
18	2220885	2	Plug	
19	70005854	1	Seal Kit (Includes Items 4, 5, 7-9 & 11-13)	

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FIGURE 6-2. LEVEL CYLINDER ASSEMBLY - PLATFORM SLAVE



ART_1001195191

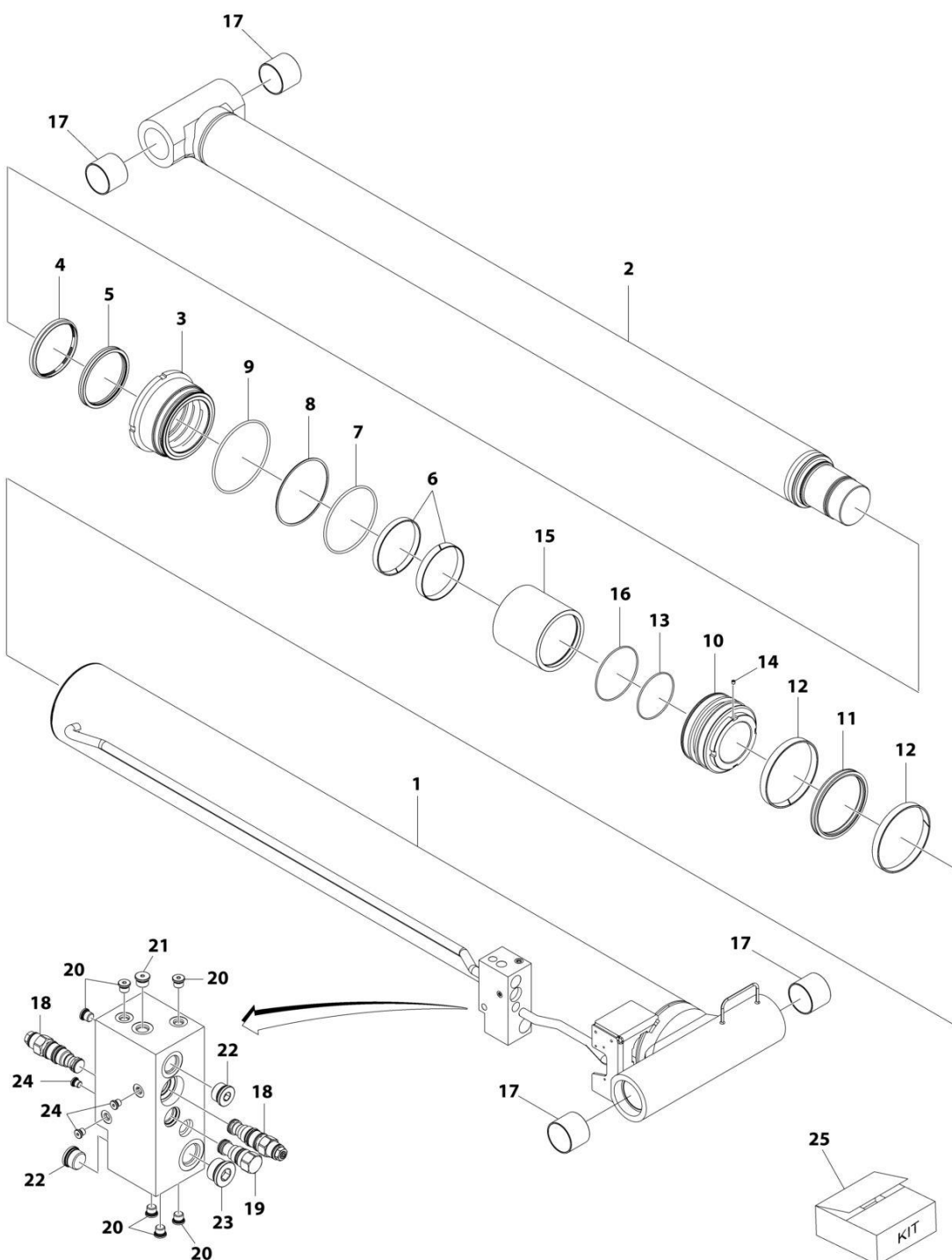
SECTION 6 - CYLINDER

FIGURE 6-2. LEVEL CYLINDER ASSEMBLY - PLATFORM SLAVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001195191	Ref	LEVEL CYLINDER ASSEMBLY - PLATFORM SLAVE	E
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005863	1	Barrel	
2	70005864	1	Rod	
3	70005845	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 20)	
5	See Note	NSS	Seal, Rod (Note: Use Item 20)	
6	70026302	1	Bearnig	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 20)	
9	See Note	NSS	O-Ring (Note: Use Item 20)	
10	70005865	1	Piston	
11	See Note	NSS	Seal, Piston (Note: Use Item 20)	
12	See Note	NSS	Ring, Wear (Note: Use Item 20)	
13	See Note	NSS	O-Ring (Note: Use Item 20)	
14	70005866	1	Setscrew	
15	0961949	4	Bearing	
16	1001168209	2	Cartridge, Valve - Counterbalance	
16	2900770	2	Seal Kit - 1001168209 Valve	
17	2220886	1	Plug	
18	2220885	1	Plug	
19	2220883	2	Plug	
20	70005867	1	Seal Kit (Includes Items 4, 5, 7-9 & 11-13)	

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FIGURE 6-3. LIFT CYLINDER ASSEMBLY - BOOM



ART_1001197797

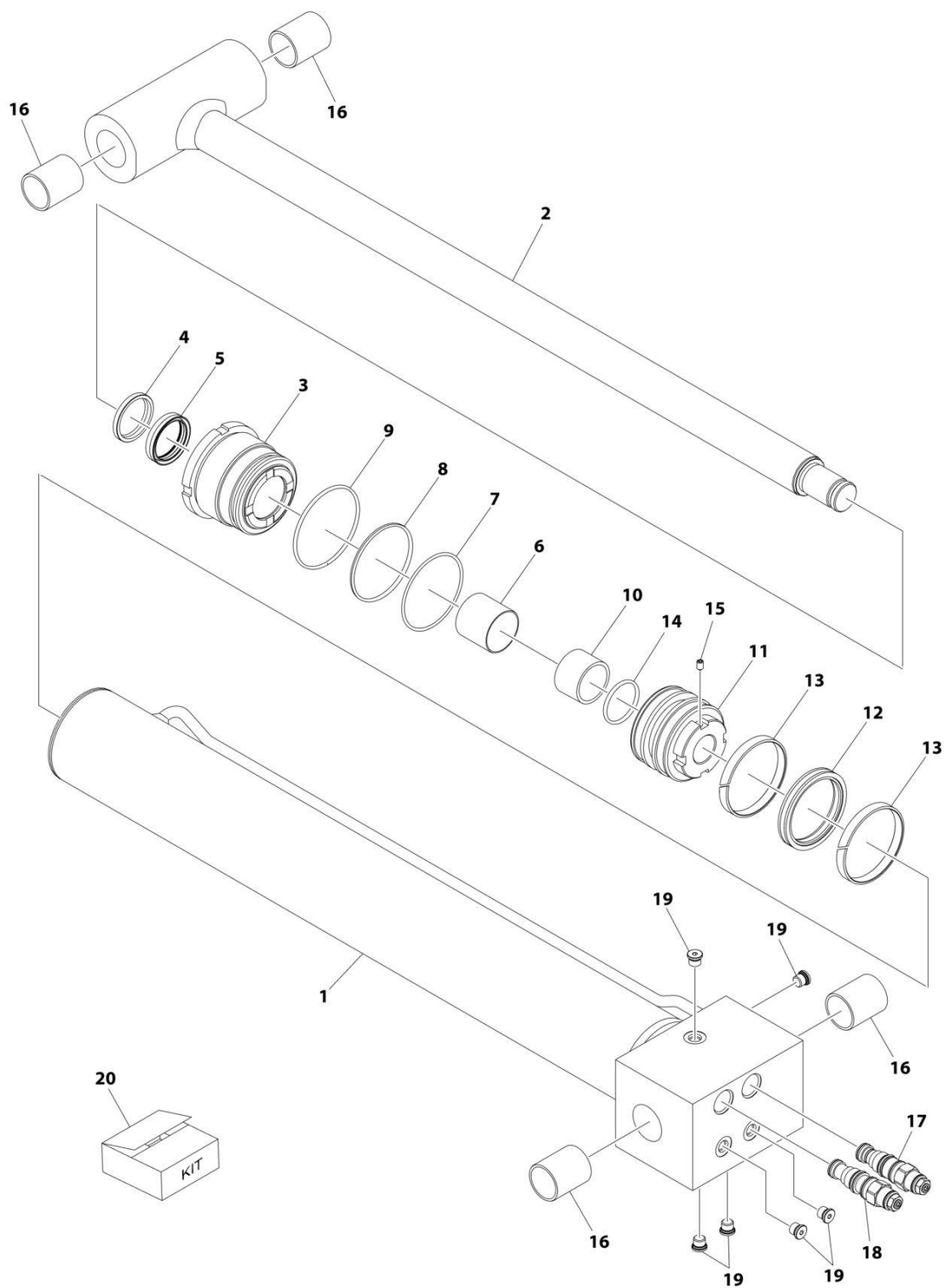
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FIGURE 6-3. LIFT CYLINDER ASSEMBLY - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197797	Ref	LIFT CYLINDER ASSEMBLY - BOOM	E
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005835	1	Barrel	
2	70005836	1	Rod	
3	70005837	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 25)	
5	See Note	NSS	Seal, Rod (Note: Use Item 25)	
6	See Note	NSS	Ring, Wear (Note: Use Item 25)	
7	See Note	NSS	O-Ring (Note: Use Item 25)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 25)	
9	See Note	NSS	O-Ring (Note: Use Item 25)	
10	70005838	1	Piston	
11	See Note	NSS	Seal, Piston (Note: Use Item 25)	
12	See Note	NSS	Ring, Wear (Note: Use Item 25)	
13	See Note	NSS	O-Ring (Note: Use Item 25)	
14	70005839	1	Setscrew	
15	70005840	1	Spacer	
16	70005841	1	O-Ring	
17	0962297	4	Bearing	
18	1001156016	2	Cartridge, Valve - Counterbalance	
18	7011376	2	Seal Kit - 1001156016 Valve	
19	4641285	1	Cartridge, Valve - Shuttle	
19	7011311	1	Seal Kit - 4641285 Valve	
20	2220883	6	Plug	
21	2220885	1	Plug	
22	2220887	2	Plug	
23	2220888	1	Plug	
24	2220881	3	Plug	
25	70005842	1	Seal Kit (Includes Items 4-9 & 11-13)	

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FIGURE 6-4. LIFT CYLINDER ASSEMBLY - JIB



ART_1001149389

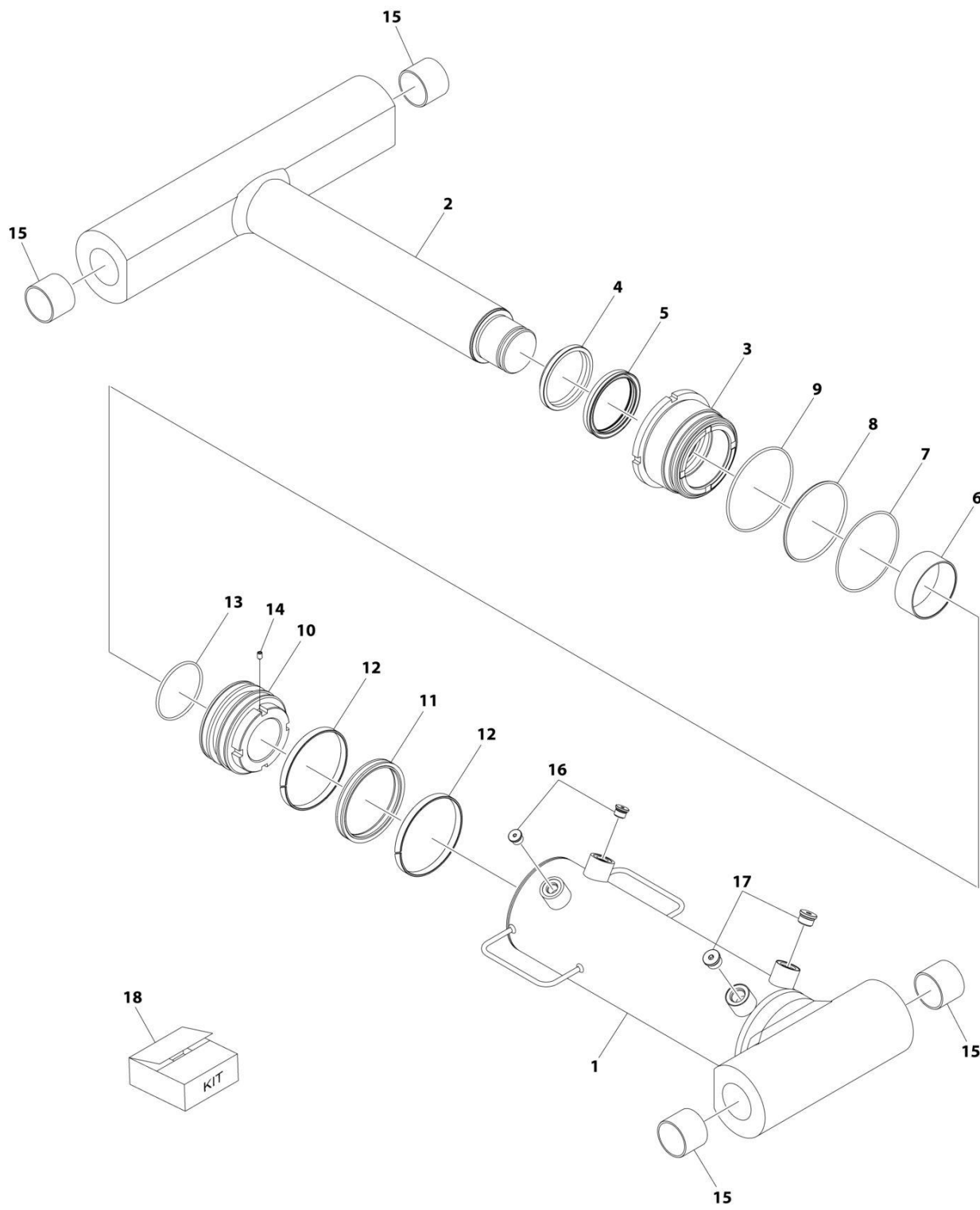
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FIGURE 6-4. LIFT CYLINDER ASSEMBLY - JIB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149389	Ref	LIFT CYLINDER ASSEMBLY - JIB	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005855	1	Barrel	
2	70005856	1	Rod	
3	70005857	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 20)	
5	See Note	NSS	Seal, Rod (Note: Use Item 20)	
6	70005858	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 20)	
9	See Note	NSS	O-Ring (Note: Use Item 20)	
10	70005859	1	Spacer	
11	70005860	1	Piston	
12	See Note	NSS	Seal, Piston (Note: Use Item 20)	
13	See Note	NSS	Ring, Wear (Note: Use Item 20)	
14	See Note	NSS	O-Ring (Note: Use Item 20)	
15	70005847	1	Setscrew	
16	70005861	4	Bearing	
17	70005890	1	Cartridge, Valve - Counterbalance	
17	2900770	1	Seal Kit - 70005890 Valve	
18	70005889	1	Cartridge, Valve - Counterbalance	
18	2900770	1	Seal Kit - 70005889 Valve	
19	2220883	6	Plug	
20	70005862	1	Seal Kit (Includes Items 4, 5, 7-9 & 12-14)	

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FIGURE 6-5. MASTER CYLINDER ASSEMBLY



ART_1001197798

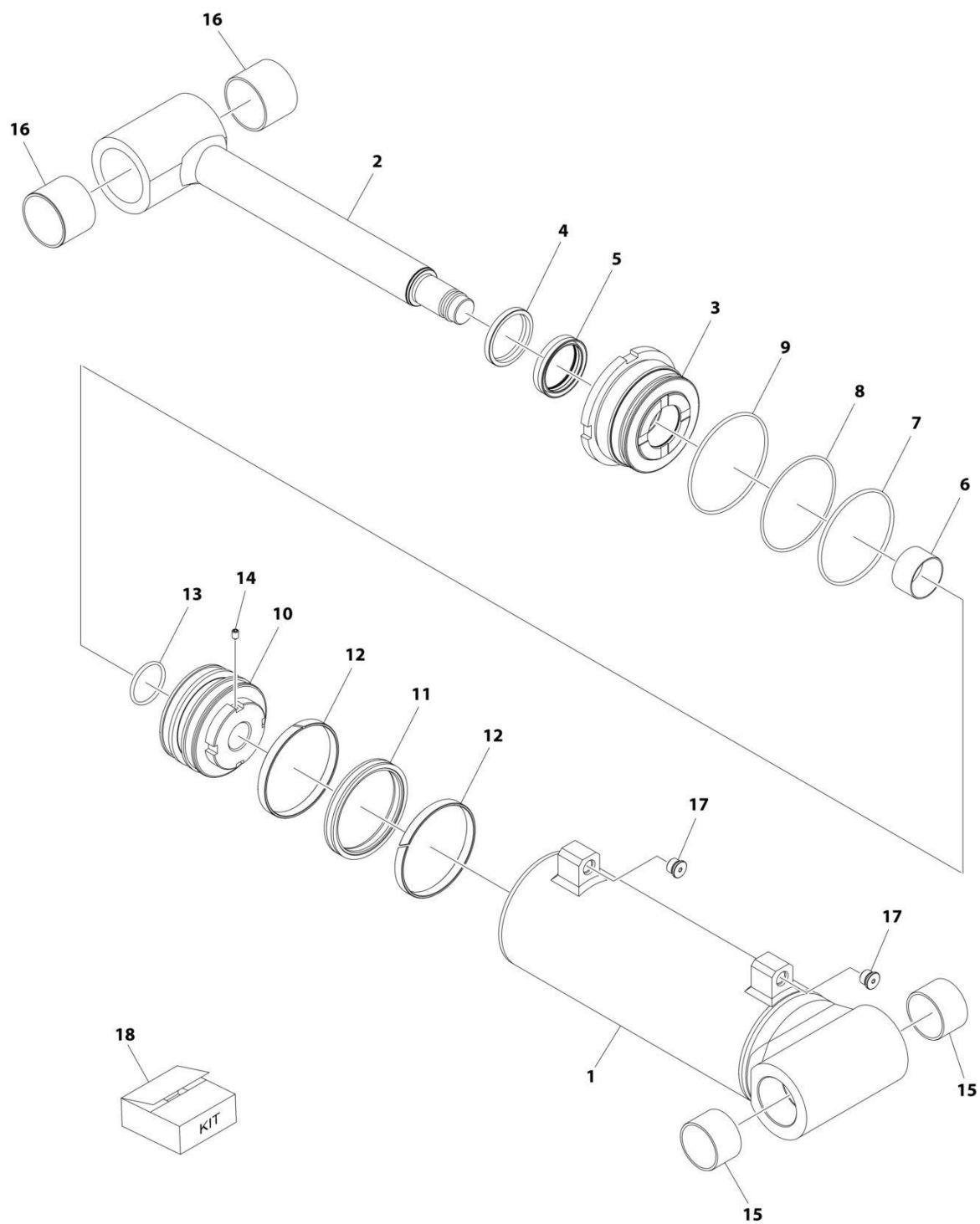
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FIGURE 6-5. MASTER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197798	Ref	MASTER CYLINDER ASSEMBLY	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005843	1	Barrel	
2	70005844	1	Rod	
3	70005845	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 18)	
5	See Note	NSS	Seal, Rod (Note: Use Item 18)	
6	70026302	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 18)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 18)	
9	See Note	NSS	O-Ring (Note: Use Item 18)	
10	70005846	1	Piston	
11	See Note	NSS	Seal, Piston (Note: Use Item 18)	
12	See Note	NSS	Ring, Wear (Note: Use Item 18)	
13	See Note	NSS	O-Ring (Note: Use Item 18)	
14	70005847	1	Setscrew	
15	70005848	4	Bearing	
16	2220885	2	Plug	
17	2220886	2	Plug	
18	70005849	1	Seal Kit (Includes Items 4, 5, 7-9 and 11-13)	

SECTION 6 - CYLINDER

FIGURE 6-6. STEER CYLINDER ASSEMBLY



ART_1001149463

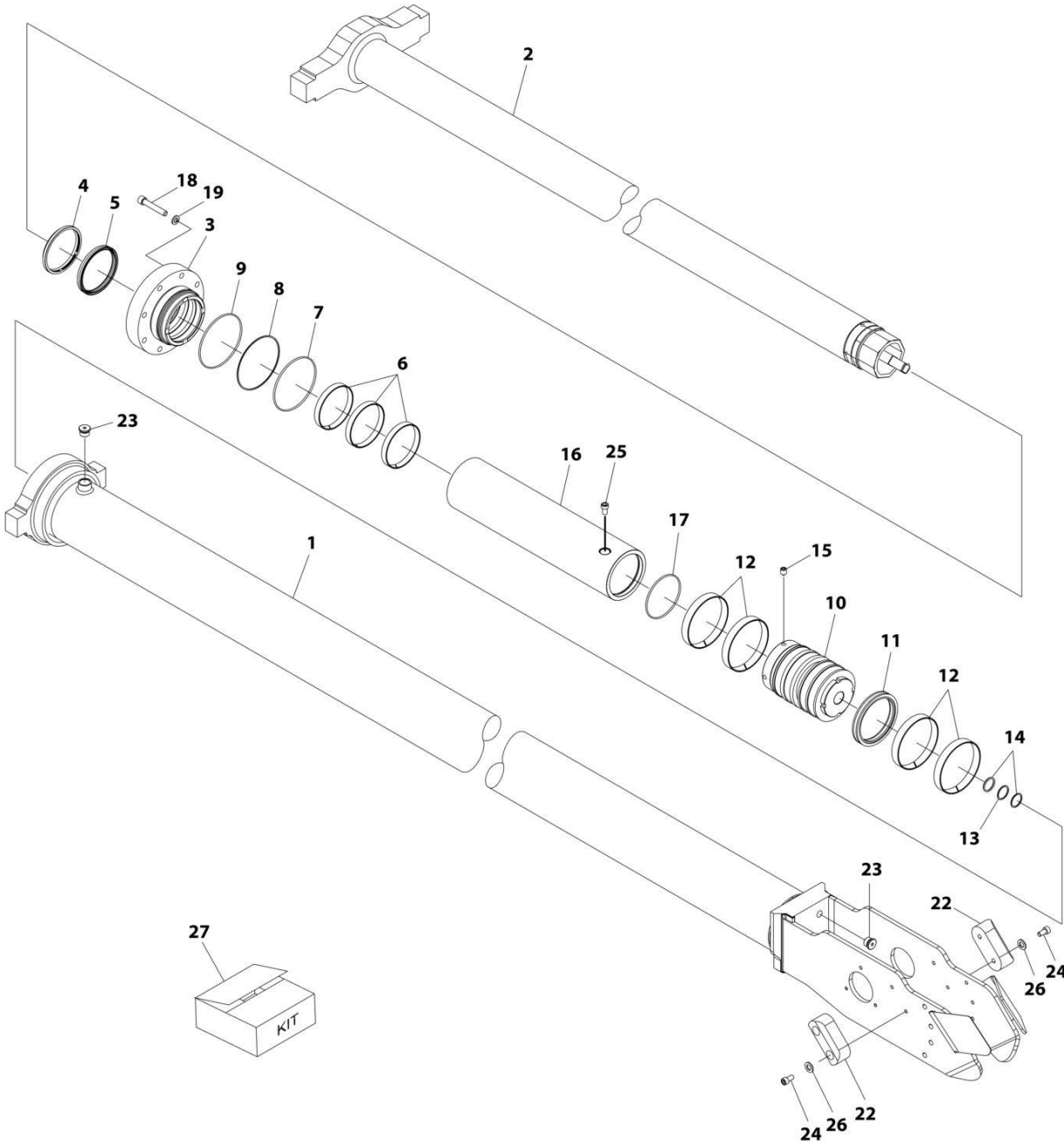
SECTION 6 - CYLINDER

FIGURE 6-6. STEER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149463	Ref	STEER CYLINDER ASSEMBLY	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005868	1	Barrel	
2	70005869	1	Rod	
3	70005870	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 18)	
5	See Note	NSS	Seal, Rod (Note: Use Item 18)	
6	70005871	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 18)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 18)	
9	See Note	NSS	O-Ring (Note: Use Item 18)	
10	70005872	1	Piston	
11	See Note	NSS	Seal, Piston (Note: Use Item 18)	
12	See Note	NSS	Ring, Wear (Note: Use Item 18)	
13	See Note	NSS	O-Ring (Note: Use Item 18)	
14	70005873	1	Setscrew	
15	0961950	2	Bearing	
16	0961949	2	Bearing	
17	2220885	2	Plug	
18	70005874	1	Seal Kit (Includes Items 4, 5, 7-9 & 11-13)	

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FIGURE 6-7. TELESCOPE CYLINDER



ART_1001194925

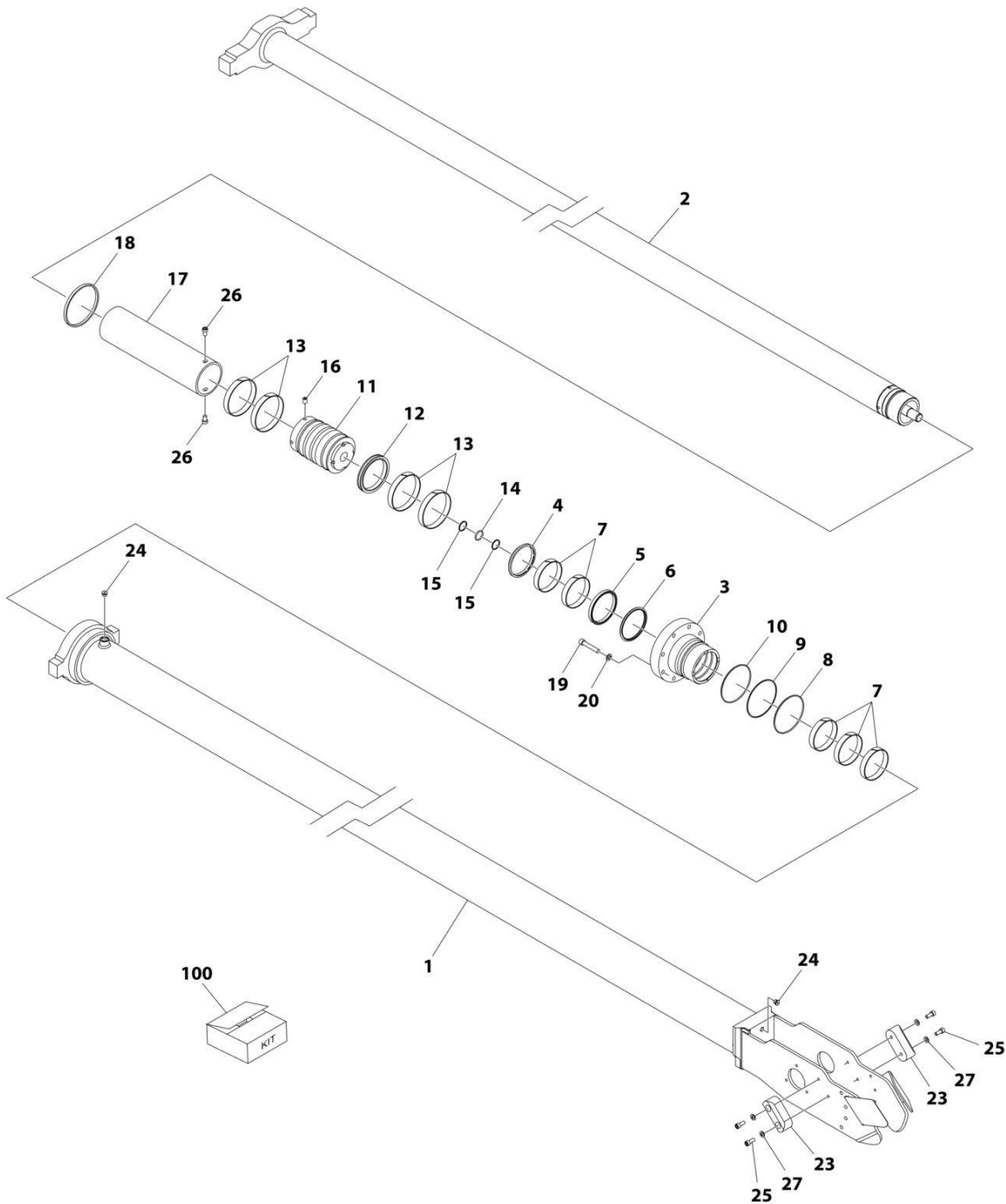
SECTION 6 - CYLINDER

FIGURE 6-7. TELESCOPE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194925	Ref	TELESCOPE CYLINDER	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70005875	1	Barrel	
2	70005876	1	Rod	
3	70005877	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 27)	
5	See Note	NSS	Seal, Rod (Note: Use Item 27)	
6	See Note	NSS	Ring, Wear (Note: Use Item 27)	
7	See Note	NSS	O-Ring (Note: Use Item 27)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 27)	
9	See Note	NSS	O-Ring (Note: Use Item 27)	
10	70005878	1	Piston	
11	See Note	NSS	Seal, Piston (Note: Use Item 27)	
12	See Note	NSS	Ring, Wear (Note: Use Item 27)	
13	See Note	NSS	O-Ring (Note: Use Item 27)	
14	See Note	NSS	Ring, Back Up (Note: Use Item 27)	
15	70005879	1	Setscrew	
16	70005880	1	Spacer	
17	70005881	1	O-Ring	
18	70005882	8	Capscrew M12 x 70	
19	70005883	8	Washer	
22	70005884	2	Pad	
23	2220885	2	Plug	
24	4032009	4	Capscrew M10 x 25	
25	70006343	1	Capscrew M6 x 8	
26	70006344	4	Washer	
27	70005886	1	Seal Kit (Includes Items 4-8 & 10-13)	

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FIGURE 6-8. TELESCOPE CYLINDER



ART_1001232899

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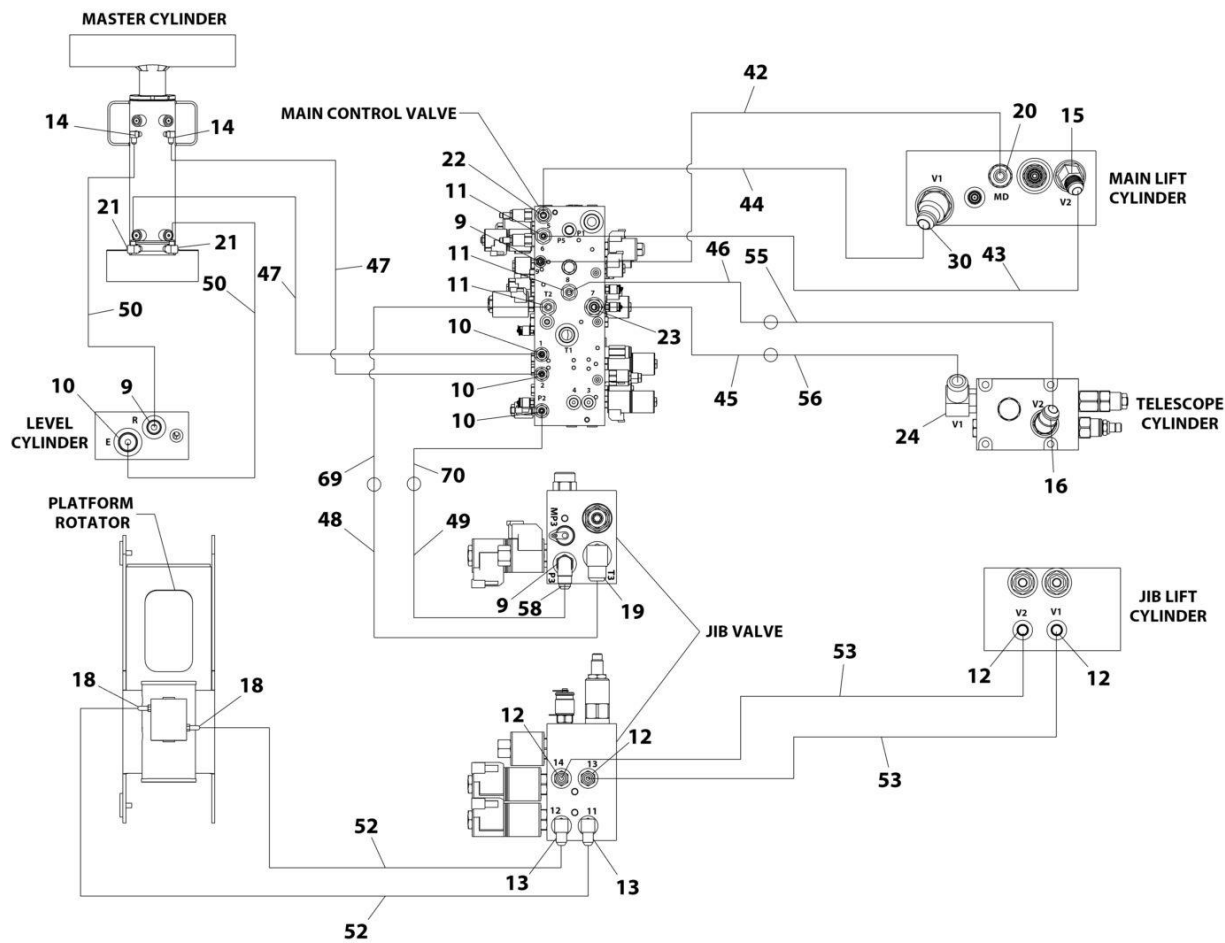
FIGURE 6-8. TELESCOPE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232899	Ref	TELESCOPE CYLINDER	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel Weldment (Note: Not Available for Purchase)	
2	70005876	1	Rod Weldment	
3	70006617	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 100)	
5	See Note	NSS	Seal, Rod (Note: Use Item 100)	
6	See Note	NSS	Ring, Buffer (Note: Use Item 100)	
7	See Note	NSS	Ring, Wear (Note: Use Item 100)	
8	See Note	NSS	O-Ring (Note: Use Item 100)	
9	See Note	NSS	Ring, Back Up (Note: Use Item 100)	
10	See Note	NSS	O-Ring (Note: Use Item 100)	
11	70005878	1	Piston	
12	See Note	NSS	Seal, Piston (Note: Use Item 100)	
13	See Note	NSS	Ring, Wear (Note: Use Item 100)	
14	See Note	NSS	O-Ring (Note: Use Item 100)	
15	See Note	NSS	Ring, Back Up (Note: Use Item 100)	
16	70005879	1	Setscrew	
17	70005880	1	Spacer	
18	70005881	1	O-Ring	
19	70005882	8	Capscrew M12 x 70	
20	70005883	8	Washer	
21	70006620	1	Cover (Not Shown)	
22	70006621	4	Bolt M6 x 16 (Not Shown)	
23	70006622	2	Pad	
24	2220885	2	Plug	
25	70005885	4	Capscrew M10 x 25	
26	70006343	2	Capscrew M6 x 8	
27	70006344	4	Washer M10	
100	70006623	1	Seal Kit (Includes Items 4-10 & 12-15)	

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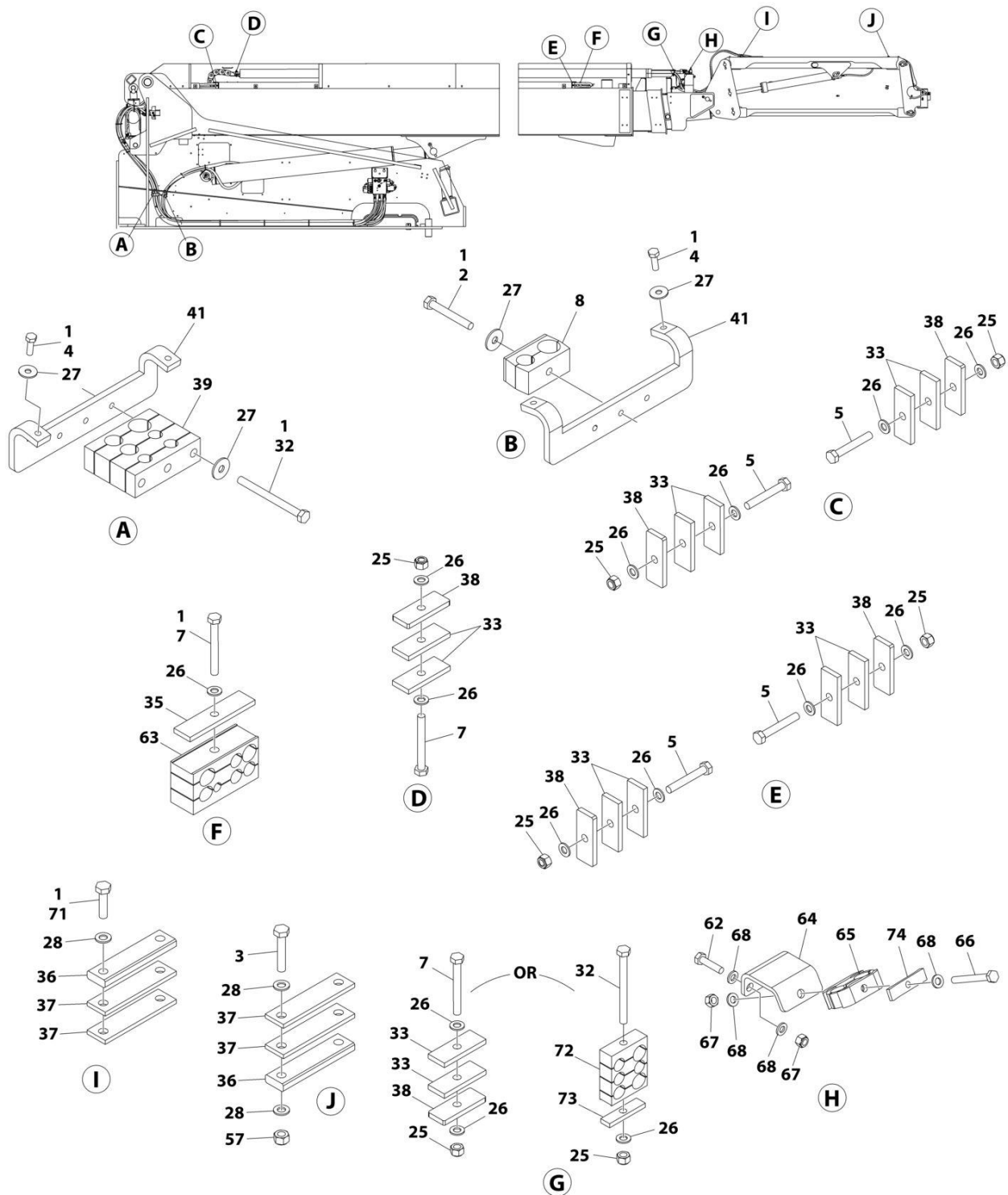
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FIGURE 7-1. BOOM HYDRAULIC DIAGRAM



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ART_1001150086_2OF2

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FIGURE 7-1. BOOM HYDRAULIC DIAGRAM

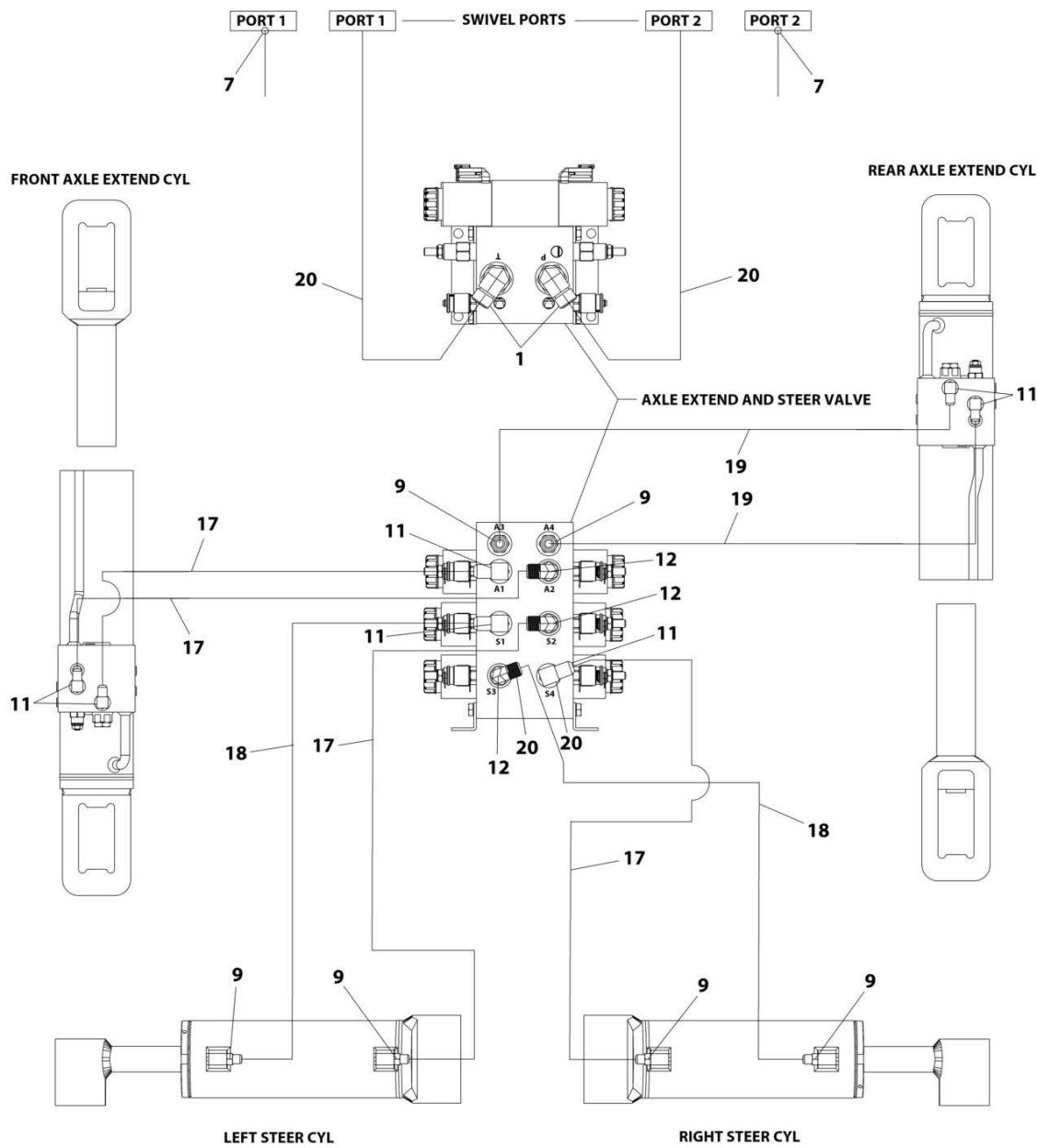
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150086	Ref	BOOM HYDRAULIC DIAGRAM	F
1	0100011	AR	Compound, Locking	
2	0700820	1	Bolt M8 x 60	
3	0701019	2	Bolt M10 x 55	
4	0760812	4	Bolt M8 x 25	
5	0700819	4	Bolt M8 x 55	
6	4100026	11.5 ft/ 3.5m	Sleeve, Protection (Not Shown)	
7	0700822	AR	Bolt M8 x 70	
8	1320235	1	Clamp	
9	2220371	3	Fitting, Straight JIC/ORB	
10	2220372	4	Fitting, Straight JIC/ORB	
11	2220374	3	Fitting, Straight JIC/ORB	
12	2220415	4	Fitting, Straight JIC/ORB	
13	2220466	2	Fitting, 90 JIC/ORB	
14	2220473	2	Fitting, 90 JIC/ORB	
15	2220499	1	Fitting, 45 JIC/ORB	
16	2220500	1	Fitting, 45 JIC/ORB	
18	2220502	2	Fitting, 45 JIC/ORB	
19	2220596	1	Fitting, 90 JIC/ORB	
20	2220603	1	Fitting, Straight JIC/ORB	
21	2220628	2	Fitting, 90 JIC/ORB	
22	2220947	1	Fitting, Straight JIC/ORB	
23	2220865	1	Fitting, Straight JIC/ORB	
24	2221042	1	Fitting, 90 JIC/ORB	
25	3290805	6	Nut M8	
26	4811900	13	Washer M8	
27	4811902	7	Washer M8	
28	4812000	6	Washer M10	
30	8770048	1	Fitting, 45	
32	1001127624	AR	Bolt M8 x 95	
33	1001136402	AR	Pad	
35	1001147039	1	Plate, Clamp	
36	1001152704	2	Plate, Clamp	
37	1001152708	4	Pad	
38	1001197718	AR	Plate, Clamp	
39	1001204722	1	Clamp	
40	4240018	20	Tie-Strap (Not Shown)	
41	1001206133	2	Bracket	
42	1001206123	1	Hose	
43	1001206124	1	Hose	
44	1001206125	1	Hose	
45	1001206126	1	Hose	
46	1001206127	1	Hose	
47	1001206128	2	Hose	
48	1001206129	1	Hose	
49	1001206130	1	Hose	
50	1001206131	2	Hose	
52	1001206121	2	Hose	
53	1001206122	2	Hose	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55	1001213664	1	Hose	
56	1001213665	1	Hose	
57	3291005	2	Nut M10	
58	8760268	1	Fitting, 90 JIC/FSJIC	
60	1321385	2	Clamp	
61	0760606	2	Bolt M6 x 12	
62	0760612	2	Bolt M6 x 25	
63	1001222493	1	Clamp	
64	1001230054	1	Bracket	
65	1001230052	1	Clamp	
66	0760619	1	Bolt M6 x 55	
67	3290605	3	Nut M6	
68	4811700	8	Washer M6	
69	1001223300	1	Hose	
70	1001223301	1	Hose	
71	0761016	2	Bolt M10 x 40	
72	1001231149	1	Clamp	
73	1001231150	1	Plate	
74	1001230053	1	Plate	

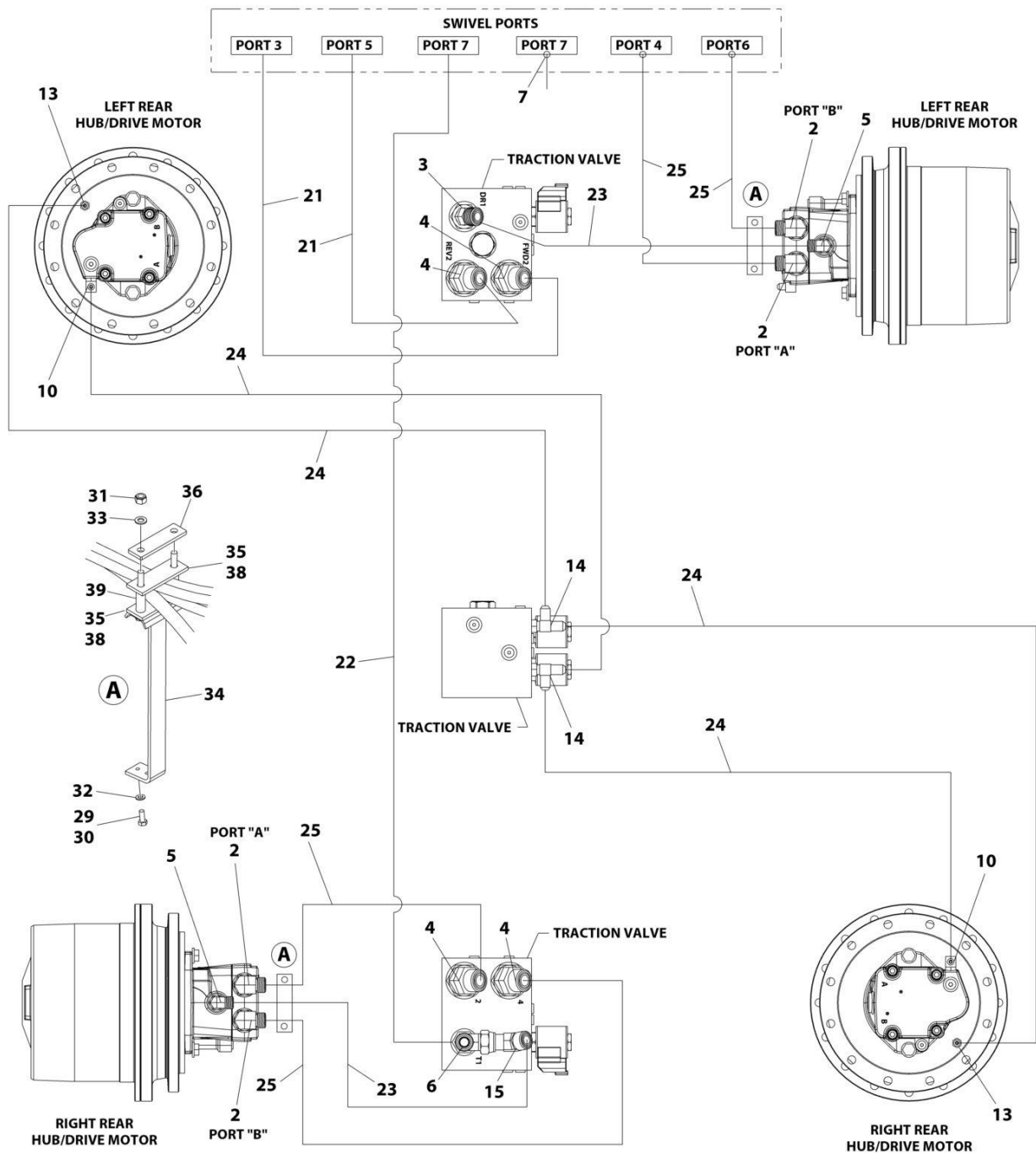
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FIGURE 7-2. CHASSIS HYDRAULIC DIAGRAM - 2WD/2WS



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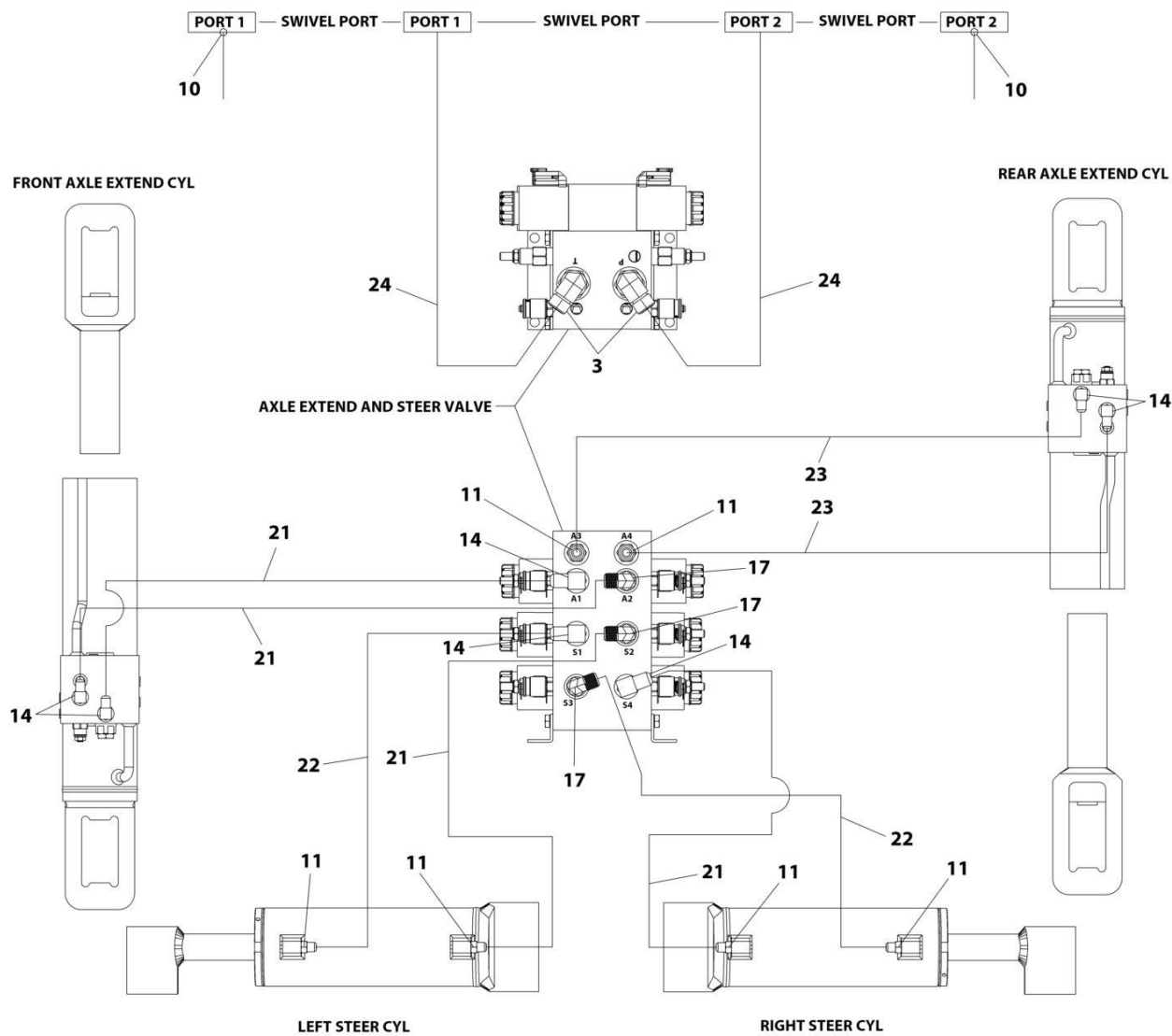
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FIGURE 7-2. CHASSIS HYDRAULIC DIAGRAM - 2WD/2WS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150090	Ref	CHASSIS HYDRAULIC DIAGRAM - 2WD/2WS	E
1	2130810	2	Fitting, 90 ORFS/ORB	
2	2131012	4	Fitting, 90 ORFS/ORB	
3	2150810	1	Fitting, 45 ORFS/ORB	
4	2151012	4	Fitting, 45 ORFS/ORB	
5	2170208	2	Fitting, 90 ORFS/ORB	
6	2170308	1	Fitting, Tee ORFS/ORB/ORFS	
7	2170908	3	Fitting, Cap FORFS	
9	2220371	6	Fitting, Straight JIC/ORB	
10	2220472	2	Fitting, 90 JIC/ORB	
11	2220473	7	Fitting, 90 JIC/ORB	
12	2220819	3	Fitting, 90 JIC/ORB	
13	2220923	2	Fitting, Straight JIC/ORB	
14	2221034	2	Fitting, Tee	
15	2221231	1	Fitting, 45 FSORFS/ORFS	
17	1001194341	4	Hose	
18	1001194342	2	Hose	
19	1001194345	2	Hose	
20	1001194346	2	Hose	
21	1001194347	2	Hose	
22	1001194348	1	Hose	
23	1001194398	2	Hose	
24	1001194401	4	Hose	
25	1001194410	4	Hose	
27	4240017	8	Tie-Strap (Not Shown)	
28	4240018	16	Tie-Strap (Not Shown)	
29	0100011	AR	Compound, Locking	
30	0760810	8	Bolt M8 x 20	
31	3291005	8	Nut M10	
32	4811900	8	Washer M8	
33	4812000	8	Washer M10	
34	1001209688	4	Bracket	
35	1001209841	8	Pad	
36	1001209842	4	Plate, Clamp	
38	0100081	1	Adhesive	
39	2750532	11 in /28cm	Hose	

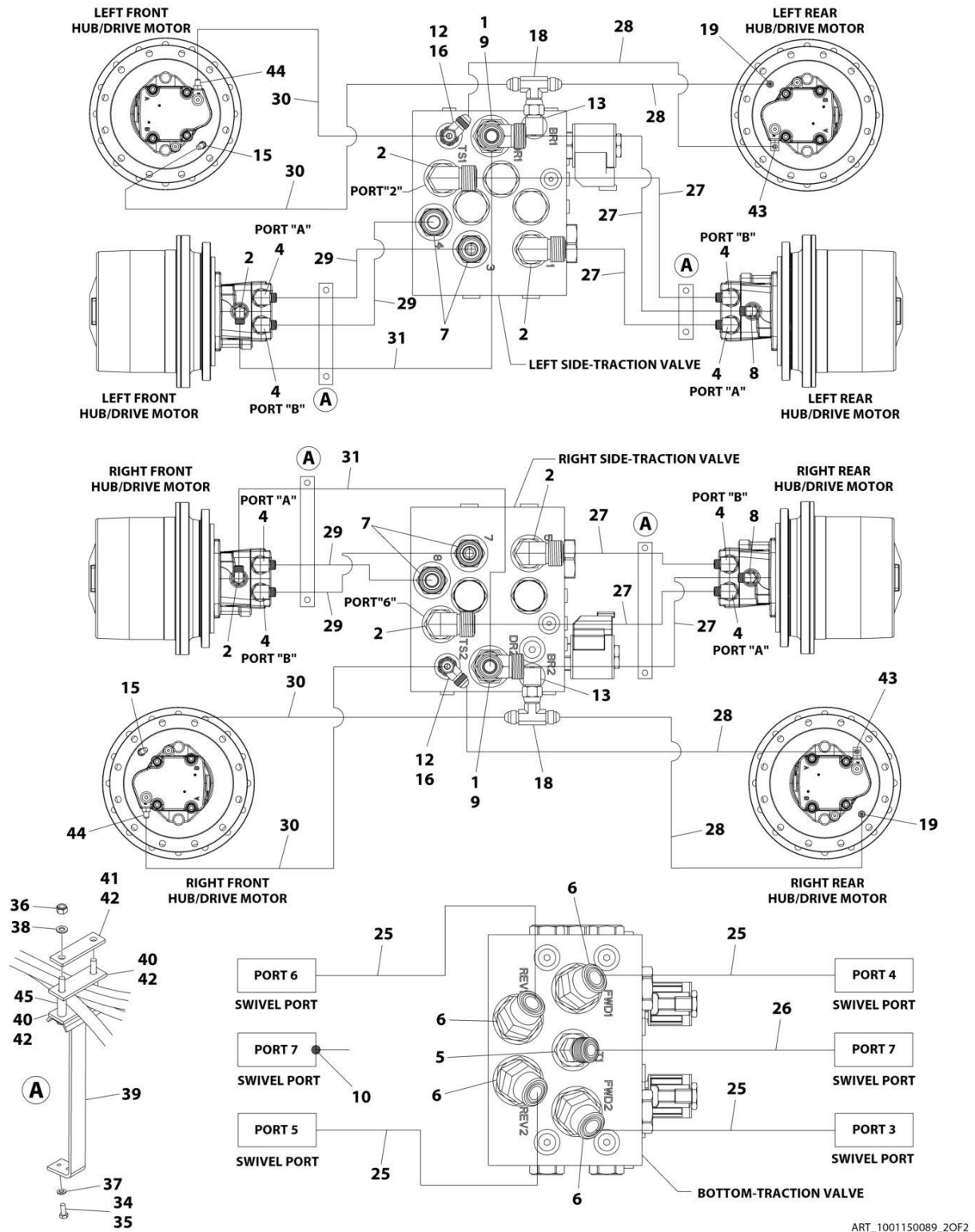
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FIGURE 7-3. CHASSIS HYDRAULIC DIAGRAM - 4WD/2WS



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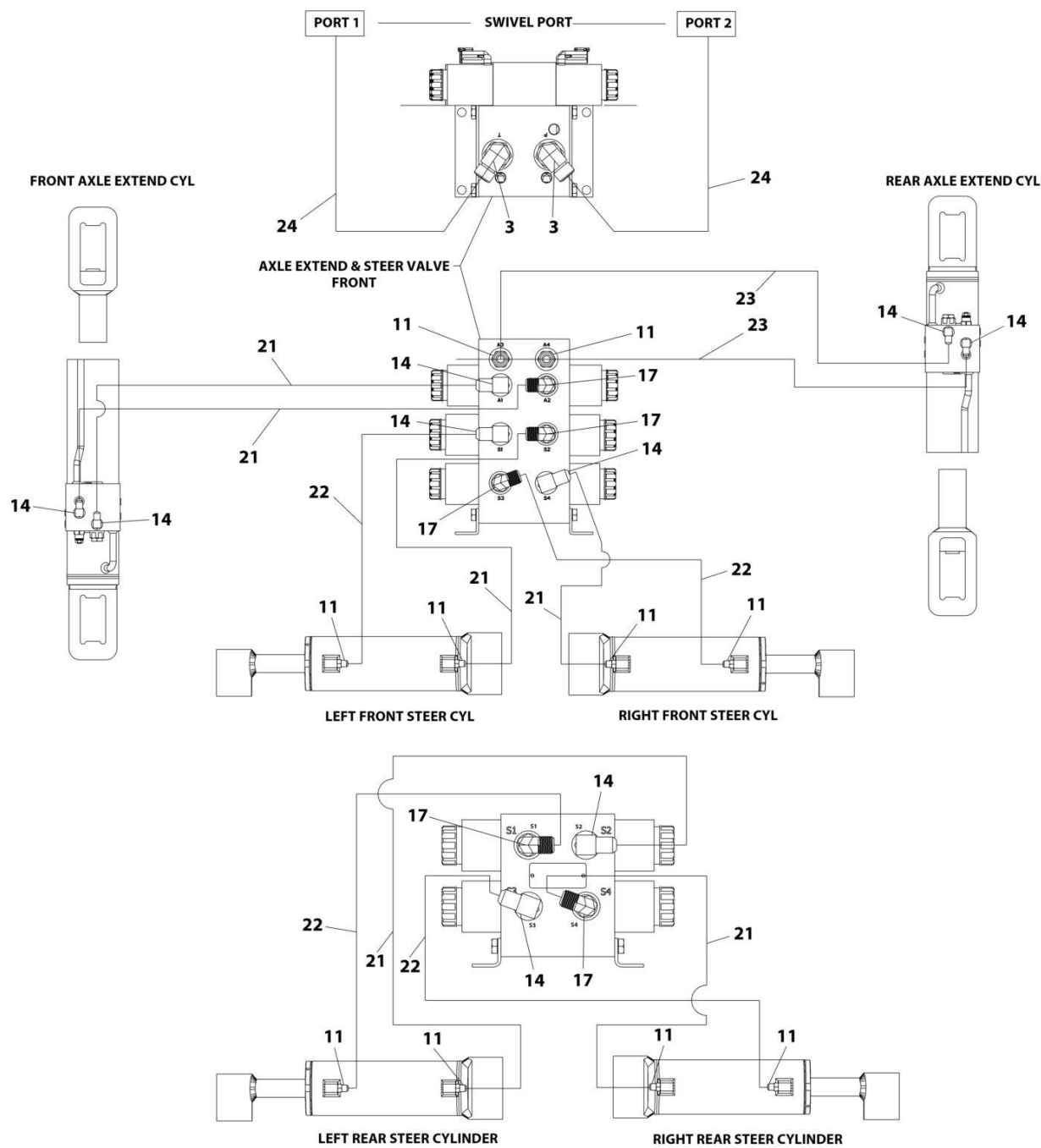
SECTION 7 - HYDRAULIC

FIGURE 7-3. CHASSIS HYDRAULIC DIAGRAM - 4WD/2WS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150089	Ref	CHASSIS HYDRAULIC DIAGRAM - 4WD/2WS	E
1	2110810	2	Fitting, Straight ORFS/ORB	
2	2130808	6	Fitting, 90 ORFS/ORB	
3	2130810	2	Fitting, 90 ORFS/ORB	
4	2130812	8	Fitting, 90 ORFS/ORB	
5	2150810	1	Fitting, 45 ORFS/ORB	
6	2151012	4	Fitting, 45 ORFS/ORB	
7	2170108	4	Fitting, Straight ORFS/ORB	
8	2170208	2	Fitting, 90 ORFS/ORB	
9	2170708	2	Fitting, Tee ORFS/FSORFS/ORFS	
10	2170908	3	Fitting, Cap FORFS	
11	2220371	6	Fitting, Straight JIC/ORB	
12	2220415	2	Fitting, Straight JIC/ORB	
13	2220466	2	Fitting, 90 JIC/ORB	
14	2220473	7	Fitting, 90 JIC/ORB	
15	2220502	2	Fitting, 45 JIC/ORB	
16	2220605	2	Fitting, Tee JIC/FSJIC/JIC	
17	2220819	3	Fitting, 90 JIC/ORB	
18	2220861	2	Fitting, Tee JIC/FSJIC/JIC	
19	2220923	2	Fitting, Straight JIC/ORB	
21	1001194341	4	Hose	
22	1001194342	2	Hose	
23	1001194345	2	Hose	
24	1001194346	2	Hose	
25	1001194396	4	Hose	
26	1001194397	1	Hose	
27	1001194398	6	Hose	
28	1001194401	4	Hose	
29	1001194402	4	Hose	
30	1001194406	4	Hose	
31	1001194407	2	Hose	
32	4240017	3	Tie-Strap (Not Shown)	
33	4240018	26	Tie-Strap (Not Shown)	
34	0100011	AR	Compound, Locking	
35	0760810	8	Bolt M8 x 20	
36	3291005	8	Nut M10	
37	4811900	8	Washer M8	
38	4812000	8	Washer M10	
39	1001209688	4	Bracket	
40	1001209841	8	Pad	
41	1001209842	4	Plate, Clamp	
42	0100081	AR	Adhesive	
43	2220472	2	Fitting, 90 JIC/ORB	
44	2220582	2	Fitting, Straight JIC/ORB	
45	2750532	12.6 in /32cm	Hose	

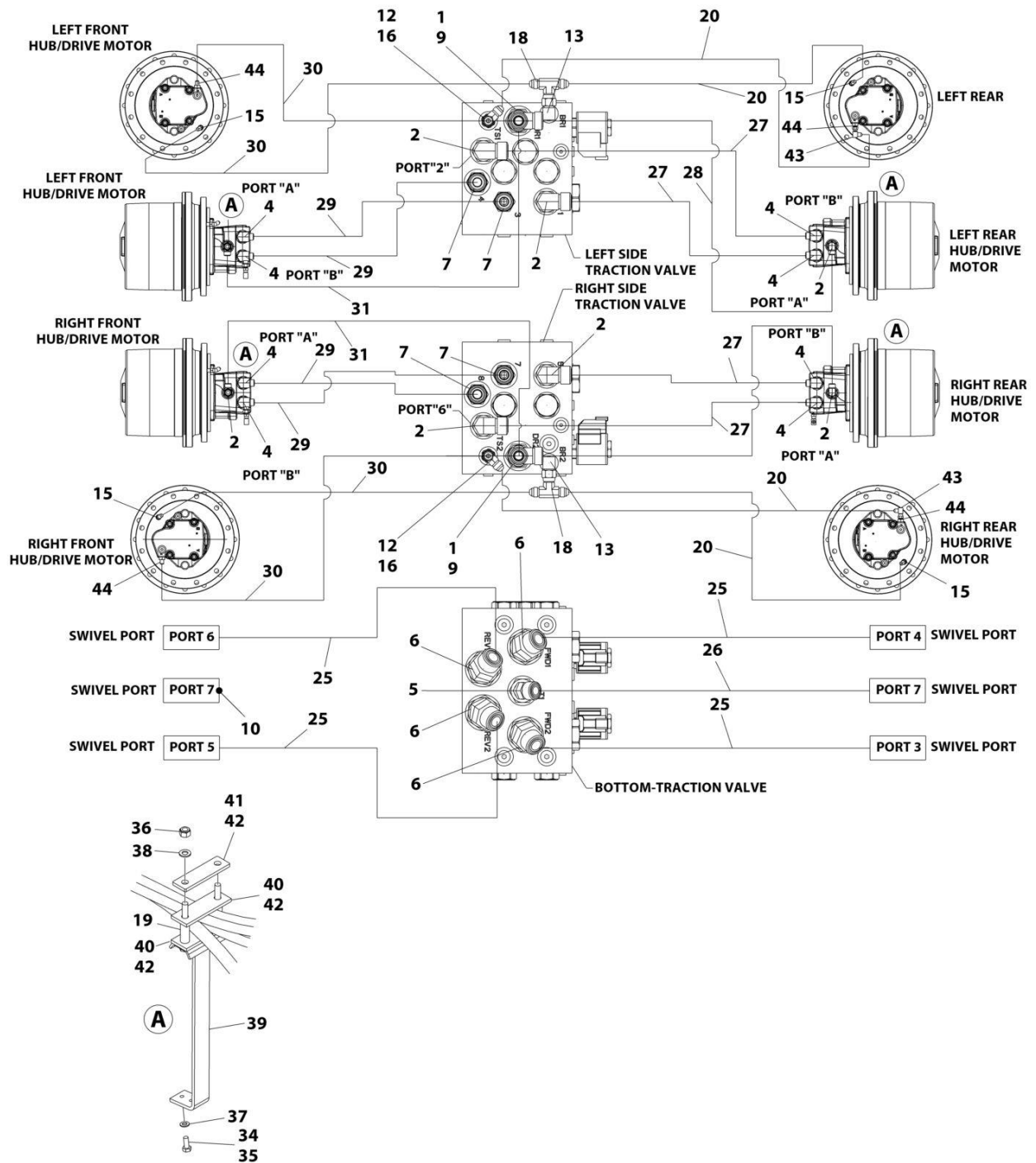
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FIGURE 7-4. CHASSIS HYDRAULIC DIAGRAM - 4WD/4WS



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ART_1001222730_2OF2

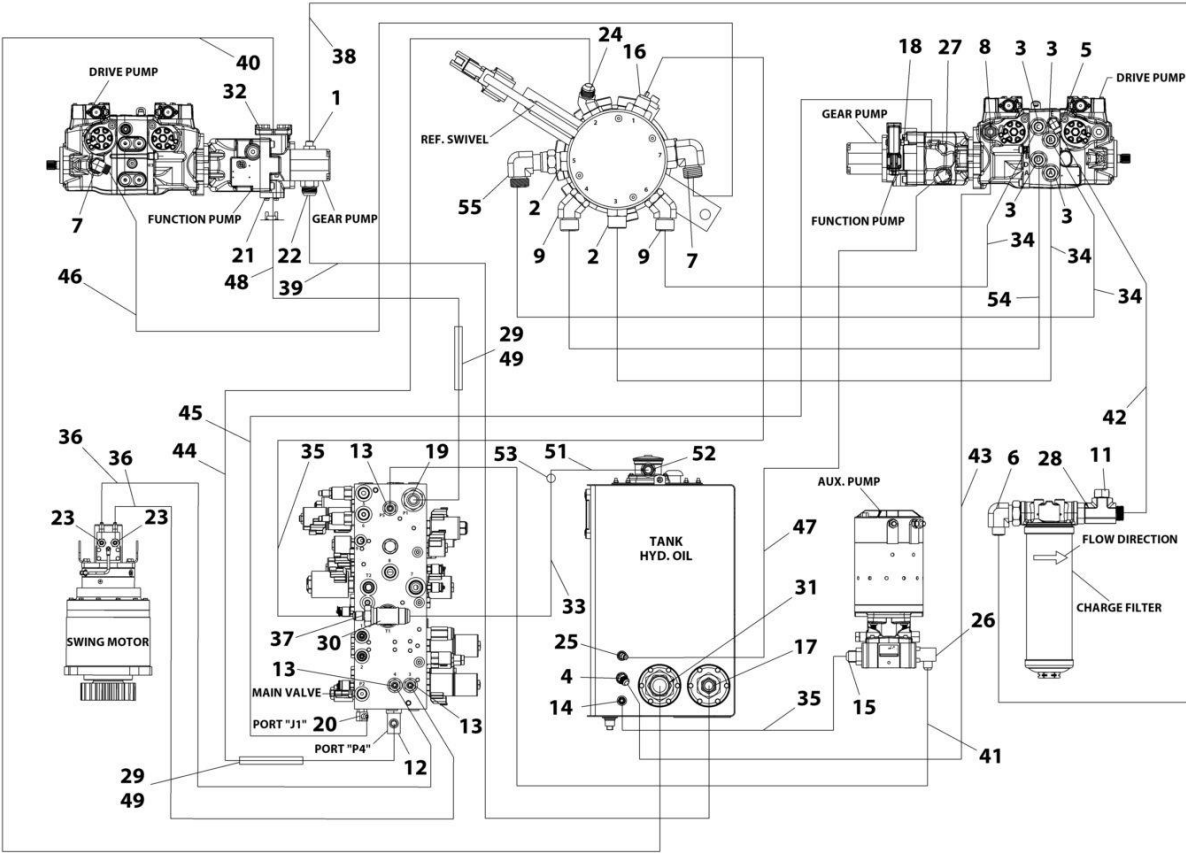
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FIGURE 7-4. CHASSIS HYDRAULIC DIAGRAM - 4WD/4WS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222730	Ref	CHASSIS HYDRAULIC DIAGRAM - 4WD/4WS	A
1	2110810	2	Fitting, Straight ORFS/ORB	
2	2130808	8	Fitting, 90 ORFS/ORB	
3	2130810	4	Fitting, 90 ORFS/ORB	
4	2130812	8	Fitting, 90 ORFS/ORB	
5	2150810	1	Fitting, 45 ORFS/ORB	
6	2151012	4	Fitting, 45 ORFS/ORB	
7	2170108	4	Fitting, Straight ORFS/ORB	
9	2170708	2	Fitting, Tee ORFS/FSORFS/ORFS	
10	2170908	1	Fitting, Cap FORFS	
11	2220371	10	Fitting, Straight JIC/ORB	
12	2220415	2	Fitting, Straight JIC/ORB	
13	2220466	2	Fitting, 90 JIC/ORB	
14	2220473	9	Fitting, 90 JIC/ORB	
15	2220502	4	Fitting, 45 JIC/ORB	
16	2220605	2	Fitting, Tee JIC/FSJIC/JIC	
17	2220819	5	Fitting, 90 JIC/ORB	
18	2220861	2	Fitting, Tee JIC/FSJIC/JIC	
19	2750532	12.6 in/ 32cm	Hose	
20	1001222796	4	Hose	
21	1001194341	6	Hose	
22	1001194342	4	Hose	
23	1001194345	2	Hose	
24	1001194346	4	Hose	
25	1001194396	4	Hose	
26	1001194397	1	Hose	
27	1001194398	4	Hose	
28	1001222785	2	Hose	
29	1001194402	4	Hose	
30	1001194406	4	Hose	
31	1001194407	2	Hose	
32	4240017	1	Tie-Strap (Not Shown)	
33	4240018	1	Tie-Strap (Not Shown)	
34	0100011	AR	Compound, Locking	
35	0760810	8	Bolt M8 x 20	
36	3291005	8	Nut M10	
37	4811900	8	Washer M8	
38	4812000	8	Washer M10	
39	1001209688	4	Bracket	
40	1001209841	8	Pad	
41	1001209842	4	Plate, Clamp	
42	0100081	AR	Adhesive	
43	2220654	2	Fitting, 90 JIC/JIC	
44	2220582	4	Fitting, Straight JIC/ORB	

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FIGURE 7-5. TURNTABLE HYDRAULIC DIAGRAM



ART_1001150088

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FIGURE 7-5. TURNTABLE HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150088	Ref	TURNTABLE HYDRAULIC DIAGRAM	F
1	2110812	1	Fitting, Straight ORFS/ORB	
2	2111010	2	Fitting, Straight ORFS/ORB	
3	2111016	4	Fitting, Straight ORFS/ORB	
4	2220498	1	Fitting, 45 JIC/ORB	
5	2130810	1	Fitting, 90 ORFS/ORB	
6	2130812	1	Fitting, 90 ORFS/ORB	
7	2131012	2	Fitting, 90 ORFS/ORB	
8	2220451	1	Fitting, Straight JIC/ORB	
9	2151010	2	Fitting, 45 ORFS/ORB	
11	2170908	1	Fitting, Cap FORFS	
12	2220366	1	Fitting, 90 JIC/ORB	
13	2220372	3	Fitting, Straight JIC/ORB	
14	2220373	1	Fitting, Straight JIC/ORB	
15	2220374	1	Fitting, Straight JIC/ORB	
16	2220375	1	Fitting, Straight JIC/ORB	
17	2220380	1	Fitting, Straight JIC/ORB	
18	2220415	1	Fitting, Straight JIC/ORB	
19	2220435	1	Fitting, Straight JIC/ORB	
20	2220472	1	Fitting, 90 JIC/ORB	
21	2220478	1	Fitting Kit - Split Flange	
22	2220479	1	Fitting, Straight JIC/ORB	
23	2220497	2	Fitting, Straight JIC/ORB	
24	2220499	1	Fitting, 45 JIC/ORB	
25	2220500	1	Fitting, 45 JIC/ORB	
26	2220628	1	Fitting, 90 JIC/ORB	
27	2220671	1	Fitting, 90 JIC/ORB	
28	2221084	1	Fitting, Tee ORFS to ORB	
29	4100066	1	Sleeve, Hose	
30	8760552	1	Fitting, Straight JIC/ORB/JIC	
31	88662013	1	Fitting, Tee JIC/ORB	
32	1001110604	1	Fitting Kit - Split Flange	
33	1001219627	1	Tube	
34	1001199837	3	Hose	
35	1001199839	2	Hose	
36	1001199849	2	Hose	
37	2220624	1	Fitting, Straight JIC/FSJIC	
38	1001194348	1	Hose	
39	1001199834	1	Hose	
40	1001199835	1	Hose	
41	1001199840	1	Hose	
42	1001199843	1	Hose	
43	1001199844	1	Hose	
44	1001199845	1	Hose	
45	1001199846	1	Hose	
46	1001199847	1	Hose	
47	1001199848	1	Hose	
48	1001199851	1	Hose	
49	4240017	4	Tie-Strap	
50	4240018	3	Tie-Strap (Not Shown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	1001219628	1	Hose	
52	2220377	1	Fitting, Straight JIC/ORB	
53	1001143501	1	Clamp	
54	1001223381	1	Hose	
55	2172110	1	Fitting, 90 ORFS/FSORFS	
56	4060807	17 in /42cm	Flex-Trim (Not Shown - Located on Engine Tray)	

SECTION 8 - ELECTRICAL

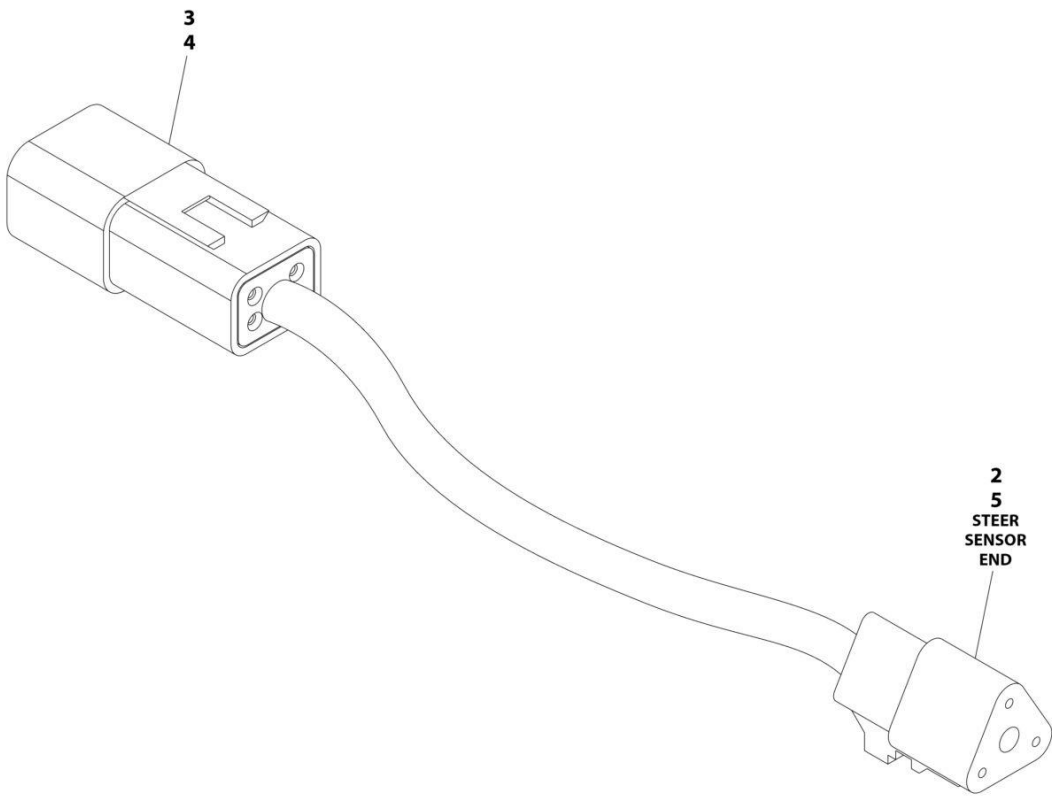
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FIGURE 8-1. ELECTRICAL DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: For more information, contact the JLG Service/Parts Department.	
		Ref	ELECTRICAL DIAGRAMS	
	1001150005	Ref	Electrical Schematic (See Service & Maintenance Manual)	
	1001157770	Ref	Generator Electrical Diagram - 7500W SkyPower Generator	

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FIGURE 8-2. AXLE POWER TRACK HARNESS



ART_1001152574

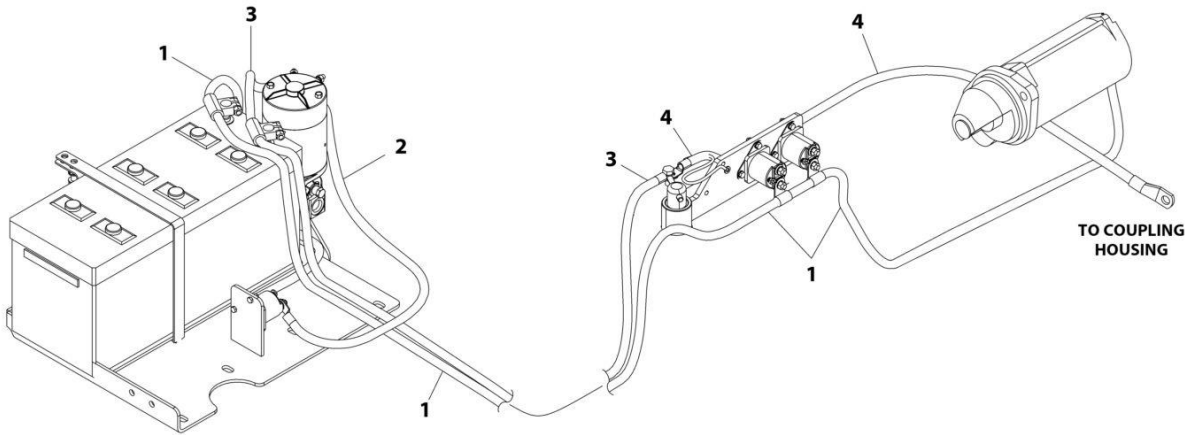
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FIGURE 8-2. AXLE POWER TRACK HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152574	Ref	AXLE POWER TRACK HARNESS	C
2	4460539	1	Plug, Male - 3 Position	
3	4460932	1	Receptacle, Female - 4 Position	
4	4460943	4	Pin, Male	
5	4460944	3	Socket, Female	

SECTION 8 - ELECTRICAL

FIGURE 8-3. BATTERY CABLE KIT - DEUTZ TD2011



ART_1001150443

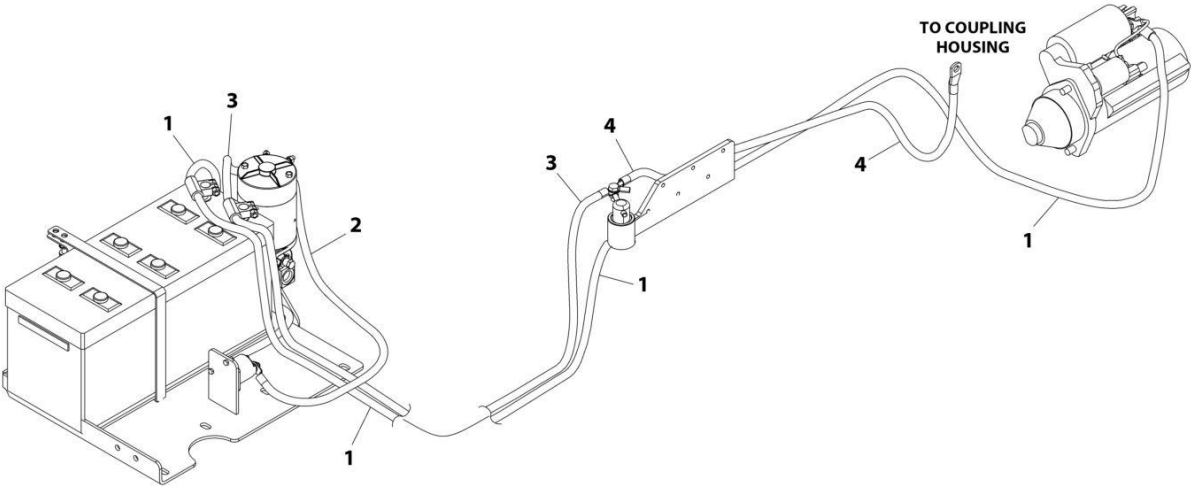
SECTION 8 - ELECTRICAL

FIGURE 8-3. BATTERY CABLE KIT - DEUTZ TD2011

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150443	Ref	BATTERY CABLE KIT - DEUTZ TD2011	C
1	70009025	1	Cable, Battery - Battery + to Starter, Start Relay and Aux Relay	
2	70009022	1	Cable, Battery - Aux Relay to Aux Power	
3	70009023	1	Cable, Battery - Battery - to Aux Ground, Pivot Ground	
4	70009026	1	Cable, Battery - Engine to Pivot Ground	

SECTION 8 - ELECTRICAL

FIGURE 8-4. BATTERY CABLE KIT - DEUTZ TD2.9L4



ART_1001220749

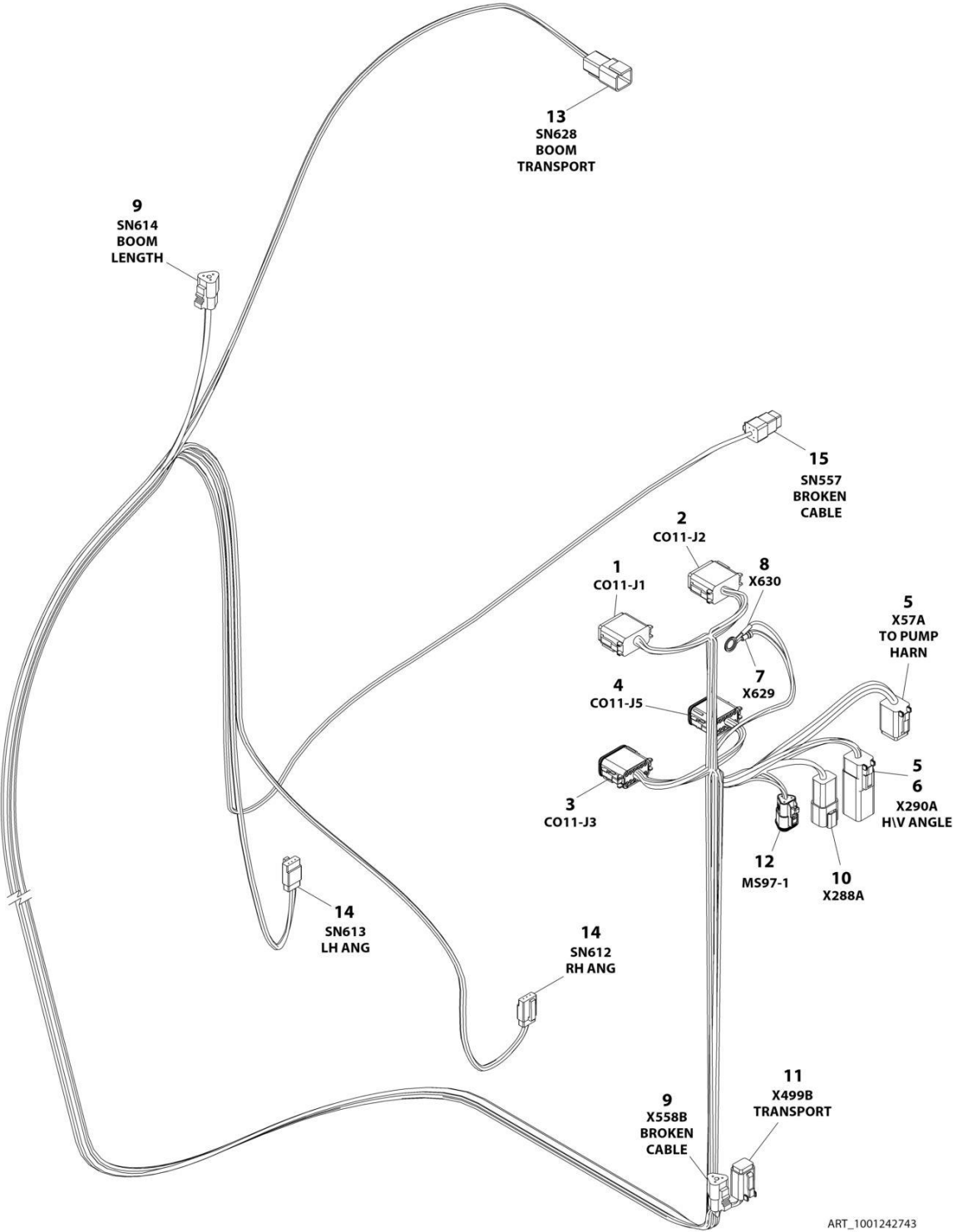
SECTION 8 - ELECTRICAL

FIGURE 8-4. BATTERY CABLE KIT - DEUTZ TD2.9L4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001220749	Ref	BATTERY CABLE KIT - DEUTZ TD2.9L4	B
1	70009021	1	Cable, Battery - Battery + to Starter, Start Relay and Aux Relay	
2	70009022	1	Cable, Battery - Aux Relay to Aux Power	
3	70009023	1	Cable, Battery - Battery - Aux Ground, Pivot Ground	
4	70009024	1	Cable, Battery - Engine to Pivot Ground	

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FIGURE 8-5. BLAM HARNESS



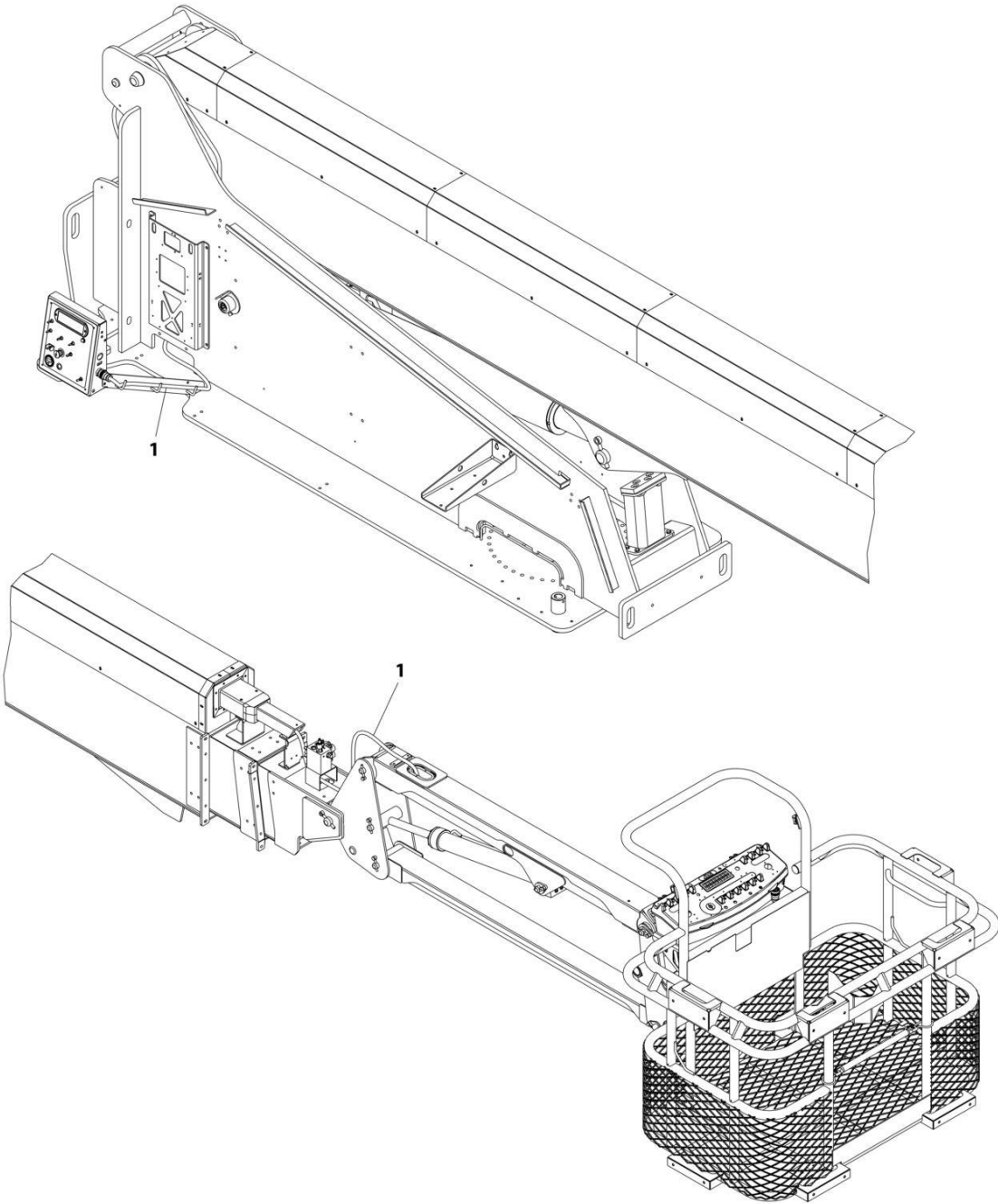
SECTION 8 - ELECTRICAL

FIGURE 8-5. BLAM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242743	Ref	BLAM HARNESS	C
1	1001270339	1	Connector - 12 Position (Gray)	
1	4460465	7	Socket, Female	
1	4460466	3	Plug, Terminal	
1	4460942	2	Terminal	
2	1001270340	1	Connector - 12 Position (Black)	
2	4460465	8	Socket, Female	
2	4460466	4	Plug, Terminal	
3	1001239344	1	Connector - 12 Position (Green)	
3	4460465	11	Socket, Female	
3	4460466	1	Plug, Terminal	
4	1001239345	1	Connector - 12 Position (Brown)	
4	4460465	5	Socket, Female	
4	4460466	7	Plug, Terminal	
5	4460894	2	Connector - 6 Position (Gray)	
5	4460465	11	Socket, Female	
5	4460466	1	Plug, Terminal	
6	4460899	1	Connector, Female - 6 Position	
7	4460670	1	Terminal, Ring	
8	4460703	1	Terminal, Ring	
9	4460539	2	Plug, Male - 3 Position	
9	4460465	3	Socket, Female	
9	4460944	3	Socket, Female	
10	4460932	1	Connector - 4 Position (Gray)	
10	4460941	2	Pin, Male	
10	4460466	1	Plug, Terminal	
10	4460464	1	Pin, Male	
11	4460884	1	Connector - 4 Position (Gray)	
11	4460465	4	Socket, Female	
12	1001116812	1	Plug, Male - 3 Position	
12	4460465	3	Socket, Female	
13	1001097051	1	Receptacle, Female - 4 Position	
13	1001116695	4	Pin, Male	
14	4460911	2	Plug, Male - 3 Position	
14	4460918	6	Terminal	
15	4461077	1	Plug, Male - 3 Position	
15	4460928	3	Socket, Female	
15	4460518	1	Plug, Terminal	

SECTION 8 - ELECTRICAL

FIGURE 8-6. BOOM CABLES INSTALLATION - 1100SJ WITHOUT POWER AT PLATFORM



ART_1001200024

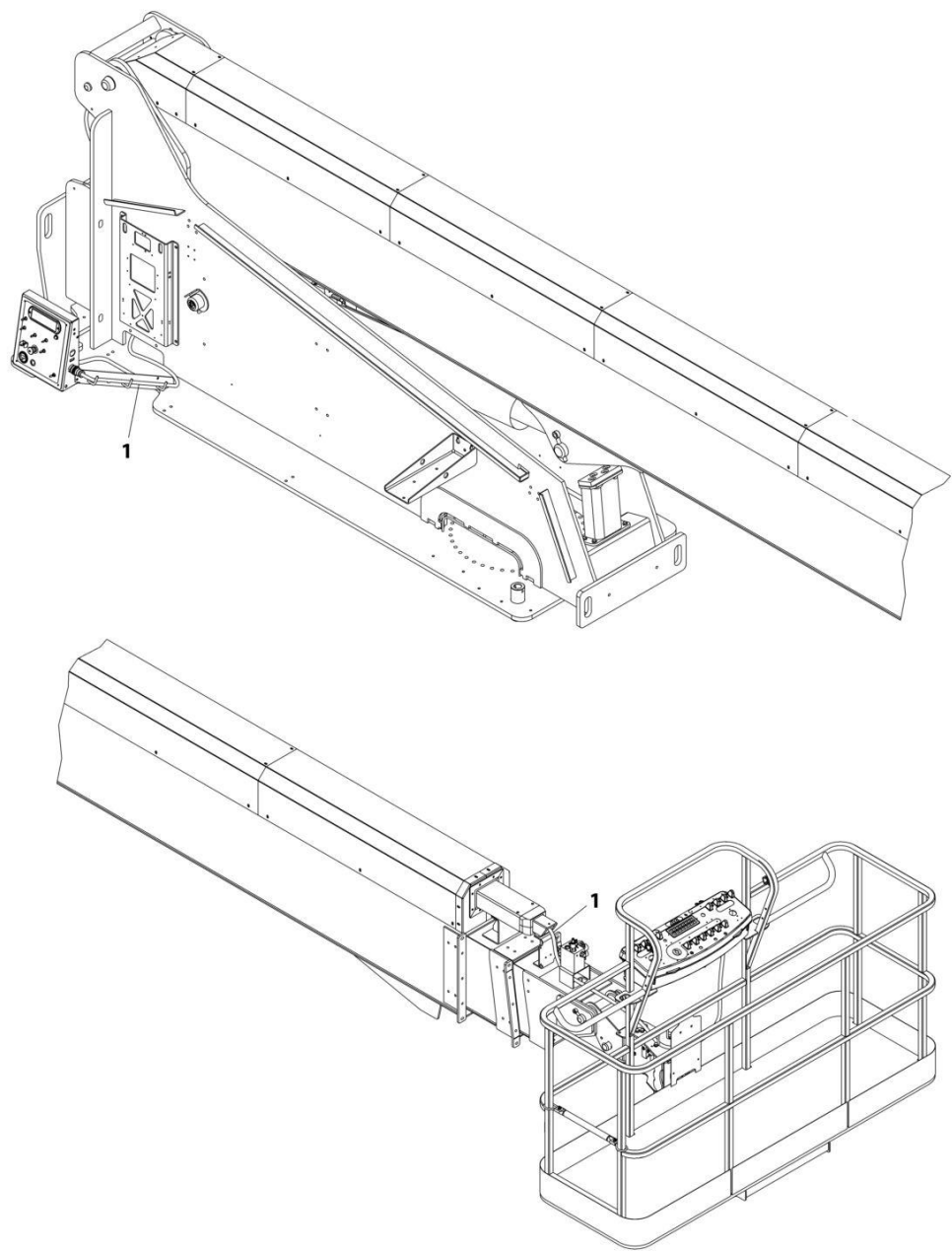
SECTION 8 - ELECTRICAL

FIGURE 8-6. BOOM CABLES INSTALLATION - 1100SJ WITHOUT POWER AT PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200024	Ref	BOOM CABLES INSTALLATION - WITHOUT POWER AT PLATFORM	C
	1001200030	1	Boom Cable - Main (See Separate Breakdown in this Section)	

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FIGURE 8-7. BOOM CABLES INSTALLATION - WITHOUT POWER AT PLATFORM



ART_1001200025

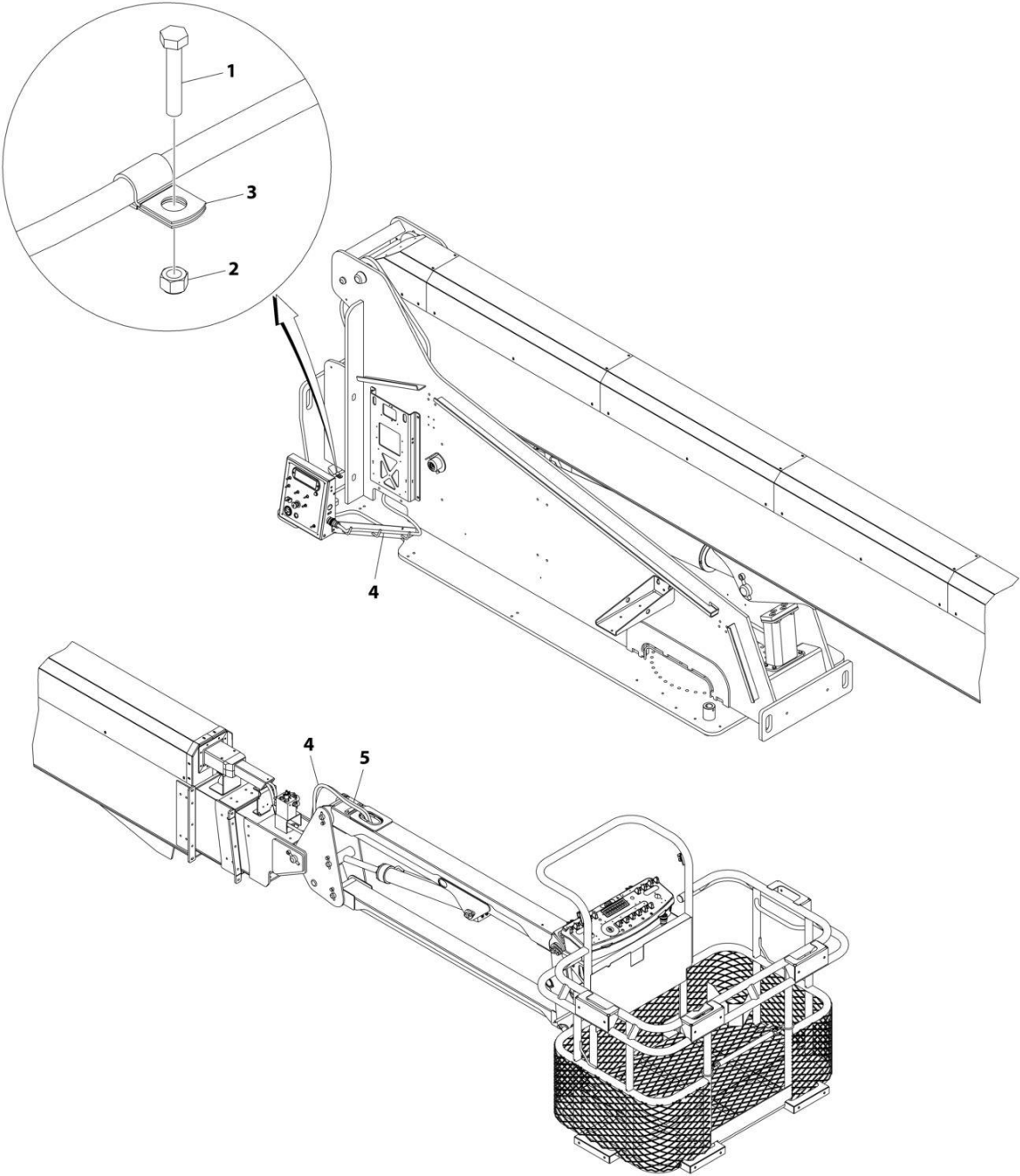
SECTION 8 - ELECTRICAL

FIGURE 8-7. BOOM CABLES INSTALLATION - WITHOUT POWER AT PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001200025	Ref	BOOM CABLES INSTALLATION - WITHOUT POWER AT PLATFORM	B
	1001200031	1	Boom Cable - Main (See Separate Breakdown in this Section)	

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FIGURE 8-8. BOOM CABLES INSTALLATION - WITH AC POWER AT PLATFORM



ART_1001200026

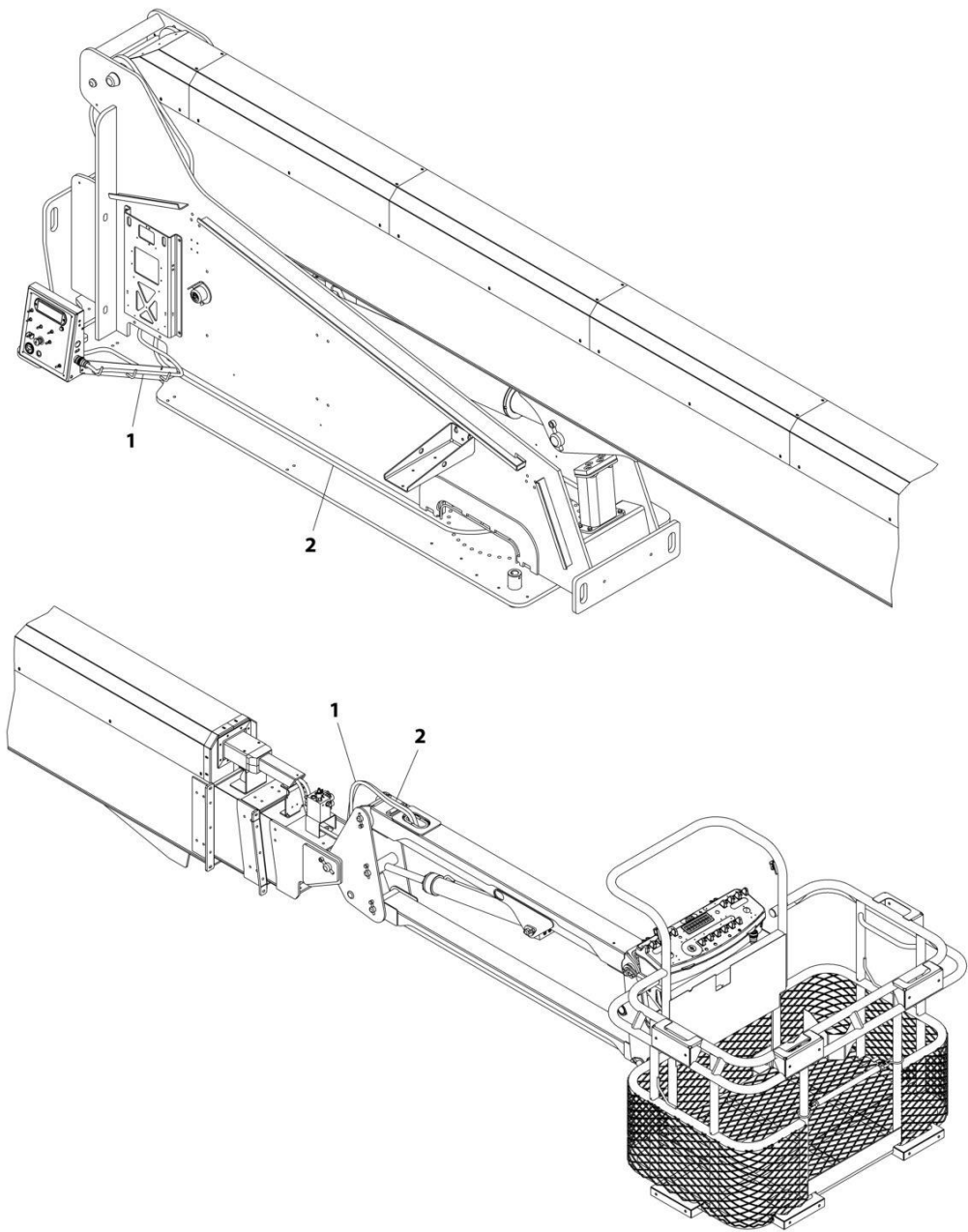
SECTION 8 - ELECTRICAL

FIGURE 8-8. BOOM CABLES INSTALLATION - WITH AC POWER AT PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200026	Ref	BOOM CABLES INSTALLATION - WITH AC POWER AT PLATFORM	C
1	0700817	1	Bolt M8 x 45	
2	3290805	1	Nut M8	
3	1001080996	1	Clamp	
4	1001200030	1	Boom Cable - Main (See Separate Breakdown in this Section)	
5	1001200032	1	Boom Cable - AC	

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FIGURE 8-9. BOOM CABLES INSTALLATION - WITH SKYPOWER



ART_1001200028

SECTION 8 - ELECTRICAL

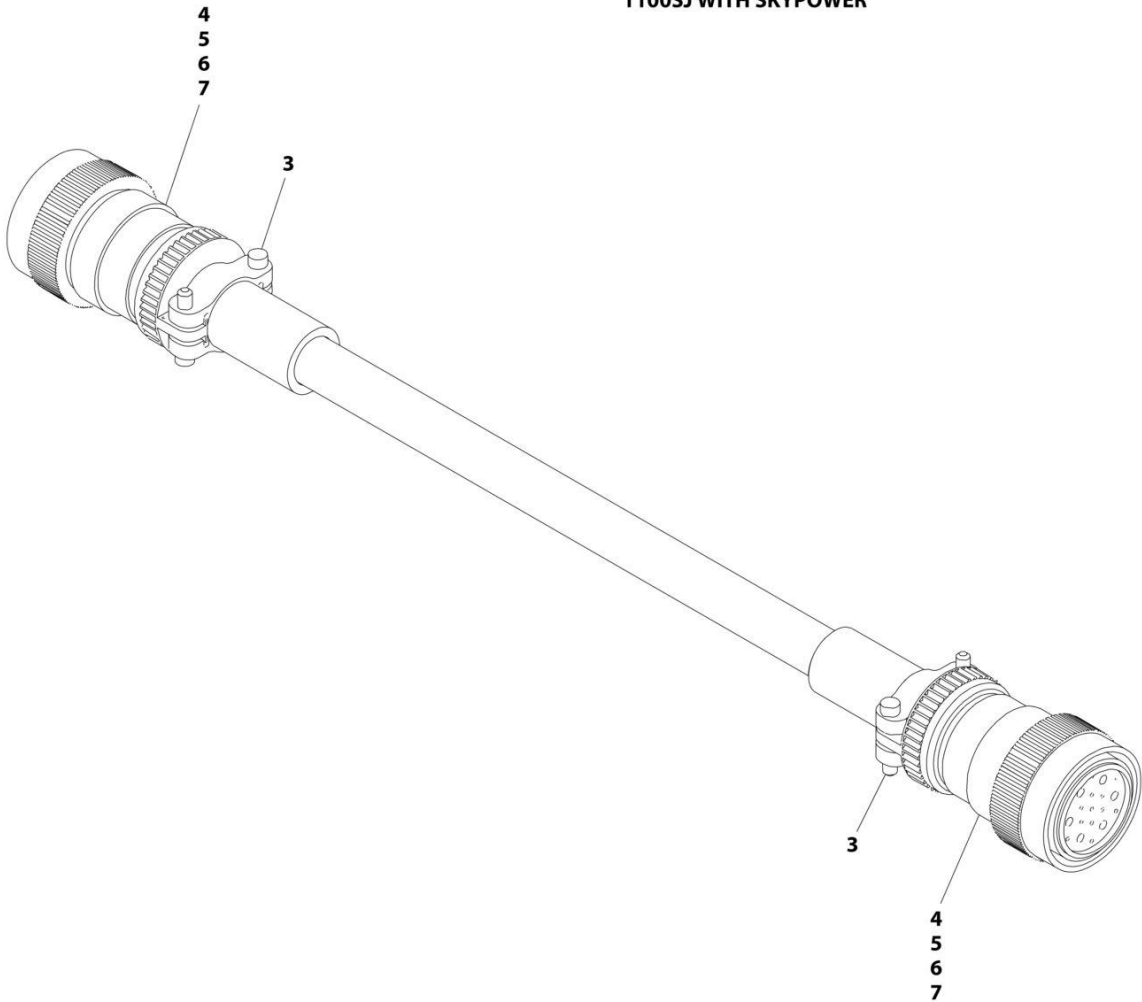
FIGURE 8-9. BOOM CABLES INSTALLATION - WITH SKYPOWER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200028	Ref	BOOM CABLES INSTALLATION - WITH SKYPOWER	C
1	1001200030	1	Boom Cable - Main (See Separate Breakdown in this Section)	
2	1001200034	1	Boom Cable - SkyPower	

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FIGURE 8-10. BOOM CABLE - MAIN

USAGE CHART:
1030S WITHOUT POWER AT PLATFORM
1100SJ WITHOUT AC POWER AT PLATFORM
1100SJ WITH SKYPOWER



ART_1001200030

SECTION 8 - ELECTRICAL

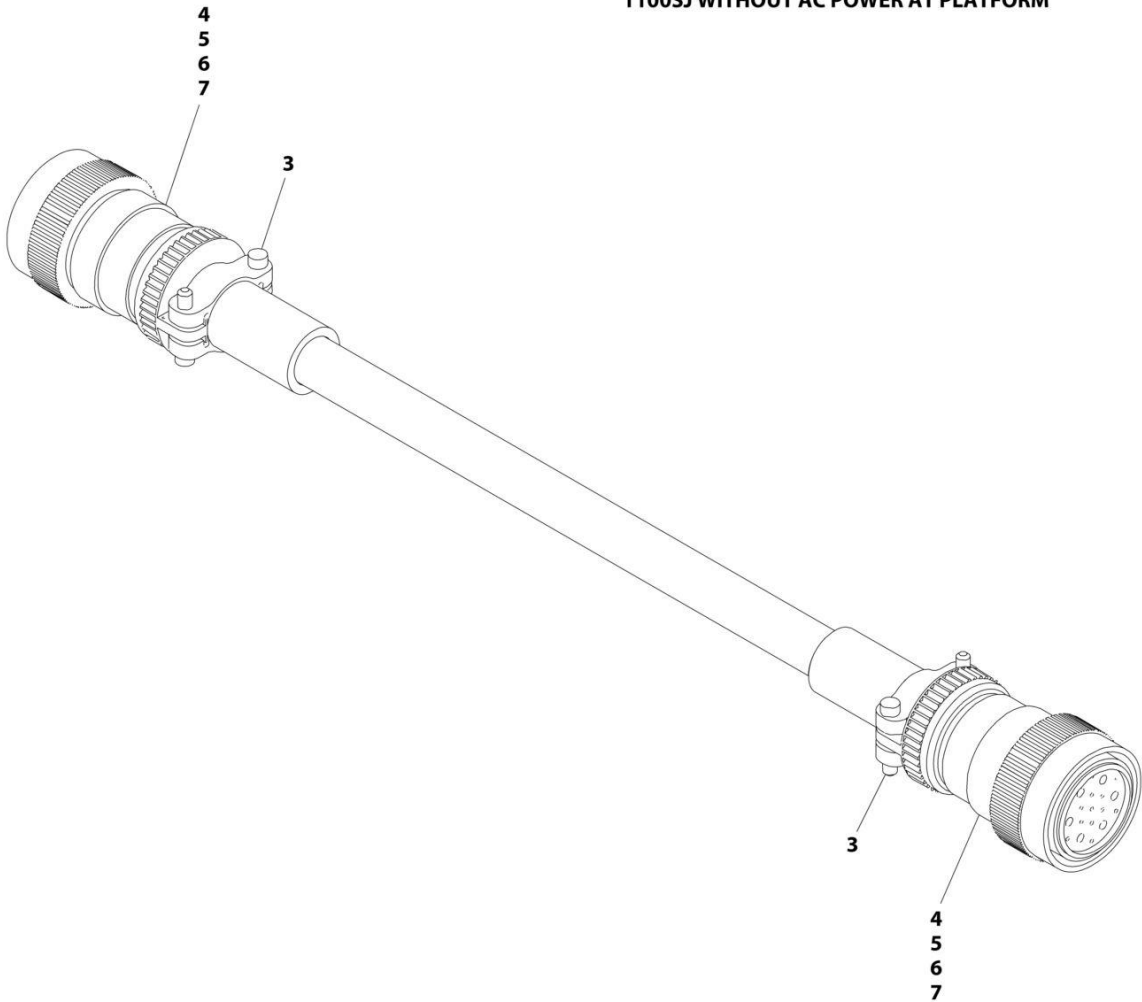
FIGURE 8-10. BOOM CABLE - MAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200030	Ref	BOOM CABLE - MAIN	E
3	4460473	2	Clamp	
4	4460509	8	Socket, Female	
5	4460865	2	Connector - 19 Position	
6	4460465	22	Socket, Female	
7	4460466	8	Plug, Socket	

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FIGURE 8-11. BOOM CABLE - MAIN

USAGE CHART:
1030S WITH AC POWER AT PLATFORM
1030S WITH SKYPOWER
1100SJ WITHOUT AC POWER AT PLATFORM



ART_1001200031

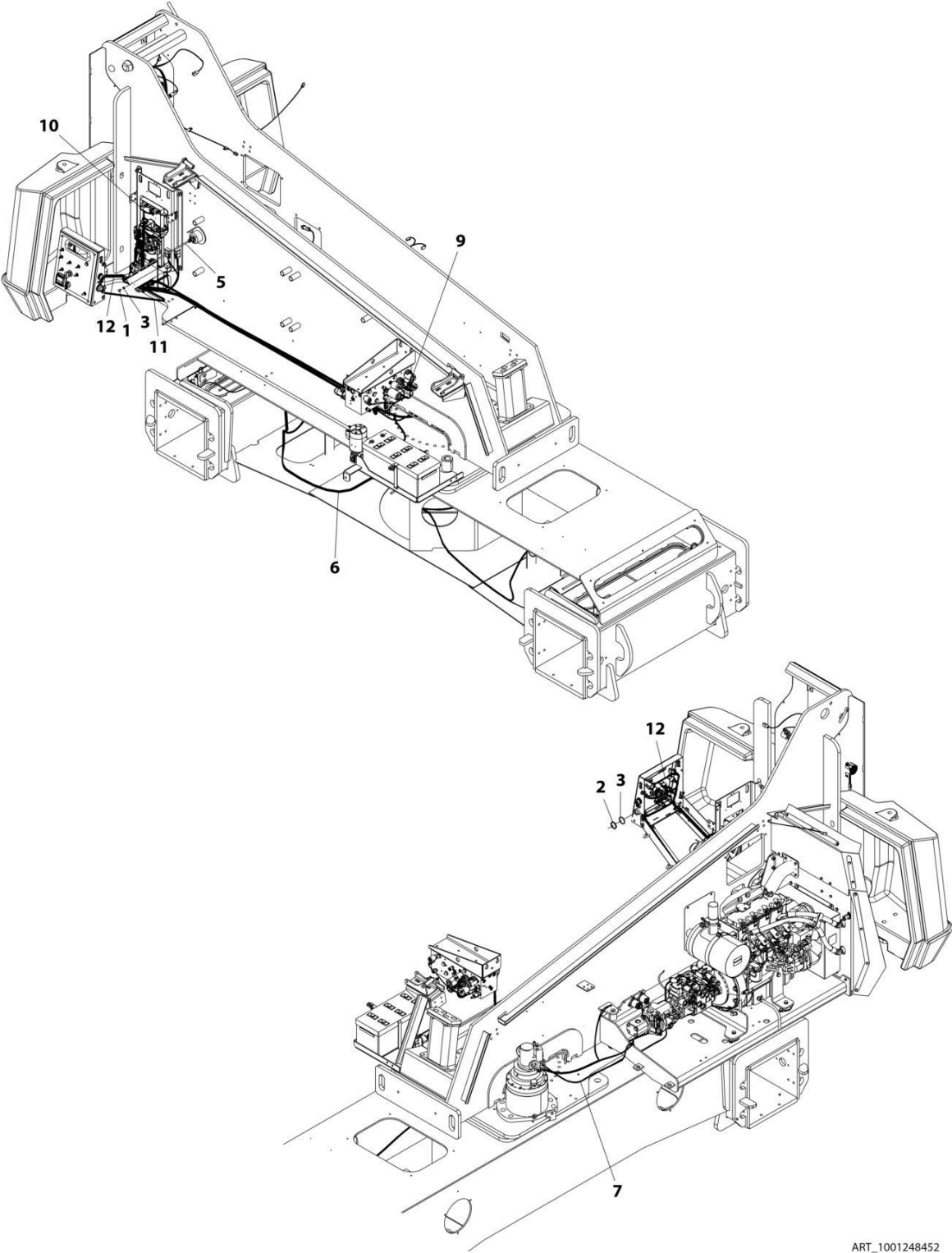
SECTION 8 - ELECTRICAL

FIGURE 8-11. BOOM CABLE - MAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200031	Ref	BOOM CABLE - MAIN	D
3	4460473	2	Clamp	
4	4460509	8	Socket, Female	
5	4460865	2	Connector - 19 Position	
6	4460465	22	Socket, Female	
7	4460466	8	Plug, Socket	

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FIGURE 8-12. CHASSIS AND TURNTABLE HARNESS INSTALLATION



ART_1001248452

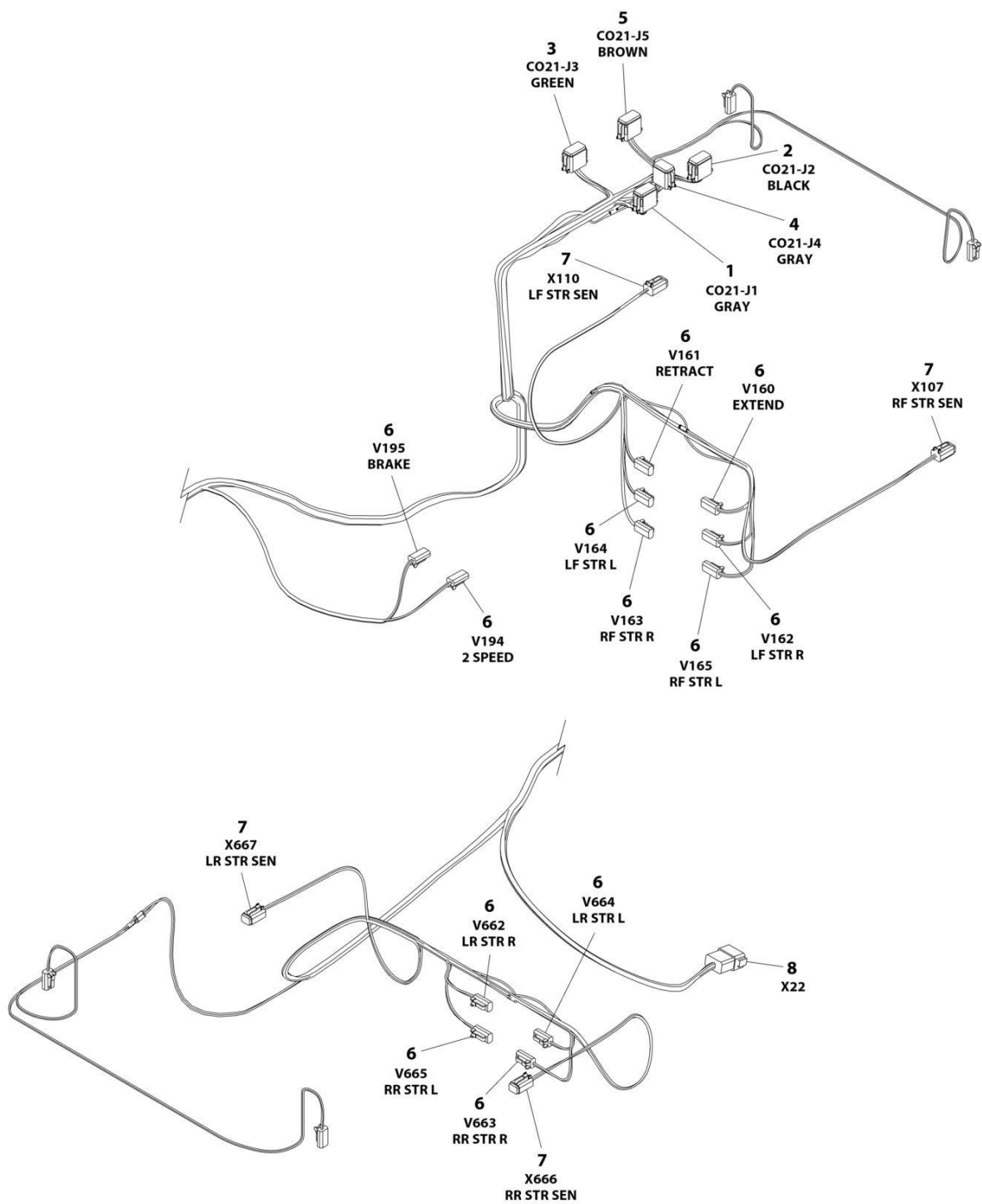
SECTION 8 - ELECTRICAL

FIGURE 8-12. CHASSIS AND TURNTABLE HARNESS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248452	Ref	CHASSIS AND TURNTABLE HARNESS INSTALLATION	A
1	0760606	1	Bolt M6 x 12	
2	4460470	1	Nut, Terminal	
3	4460471	1	Washer, Terminal	
4	4811700	1	Washer M6	
5	4923256	1	Load Sensing Pin Harness (See Separate Breakdown in this Section)	
6	1001149524	1	Chassis Harness (See Separate Breakdown in this Section)	
7	1001150480	1	Swing Drive Harness (See Separate Breakdown in this Section)	
8	1001152574	2	Axle Power Track Harness (Not Shown - See Separate Breakdown in this Section)	
9	1001194331	1	Main Valve Harness (See Separate Breakdown in this Section)	
10	1001242743	1	BLAM Harness (See Separate Breakdown in this Section)	
11	1001242744	1	Turntable Harness (See Separate Breakdown in this Section)	
12	1001242745	1	Ground Control Panel Harness (See Separate Breakdown in this Section)	

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FIGURE 8-13. CHASSIS HARNESS



ART_1001149524

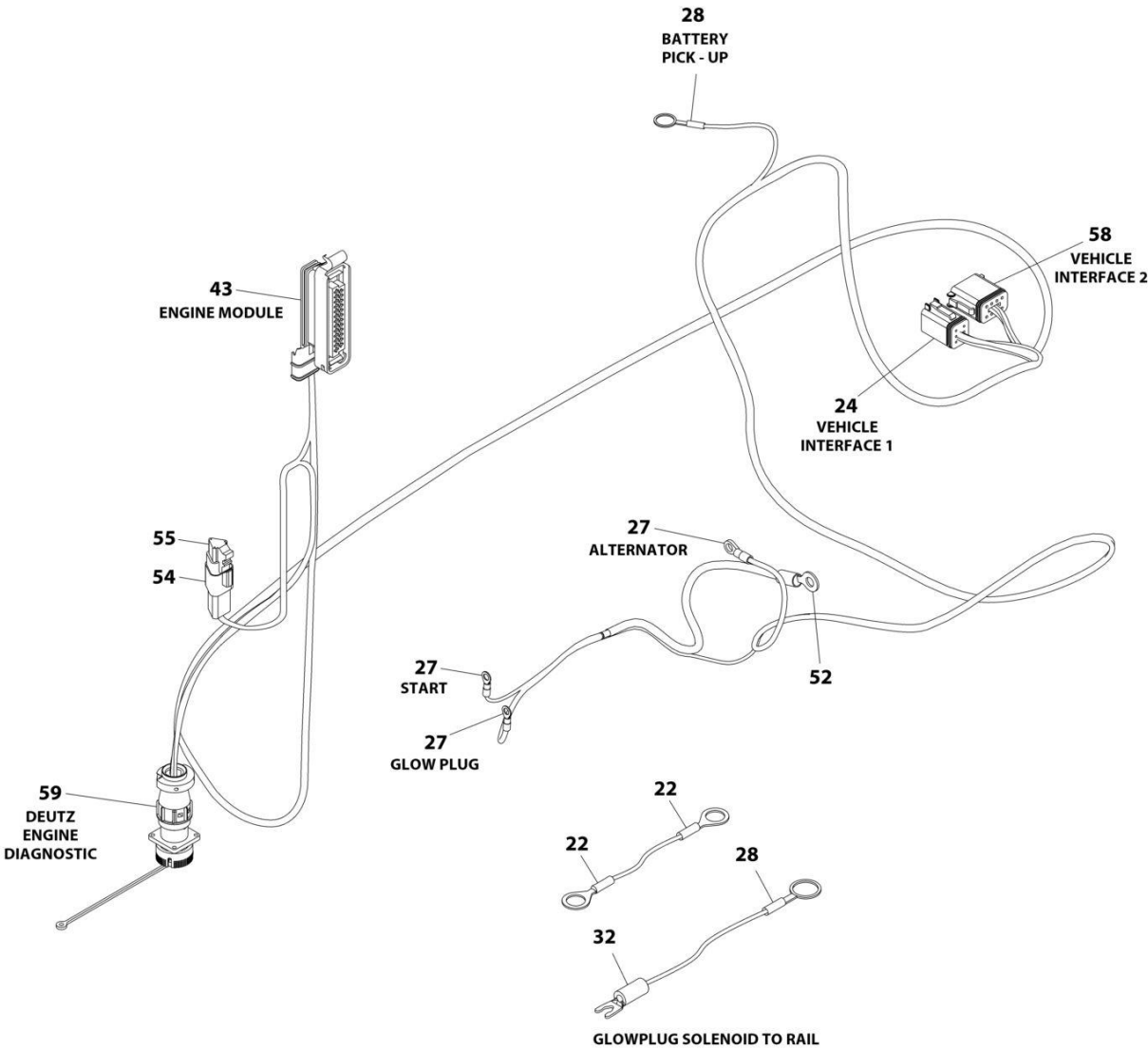
SECTION 8 - ELECTRICAL

FIGURE 8-13. CHASSIS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149524	Ref	CHASSIS HARNESS	E
1	4460933	1	Connector - 12 Position (Gray)	
1	4460465	8	Socket, Female	
1	4460466	4	Plug, Terminal	
2	4460836	1	Connector - 12 Position (Black)	
2	4460465	6	Socket, Female	
2	4460466	6	Plug, Terminal	
3	4460934	1	Connector - 12 Position (Green)	
3	4460465	12	Socket, Female	
4	4460930	1	Connector - 8 Position (Gray)	
4	4460465	4	Socket, Female	
4	4460466	4	Plug, Terminal	
5	4460935	1	Connector - 12 Position (Brown)	
5	4460465	9	Socket, Female	
5	4460466	3	Plug, Terminal	
6	4460891	12	Plug, Male - 2 Position	
6	4460465	24	Socket, Female	
7	4460884	4	Plug, Male - 4 Position	
7	4460465	16	Socket, Female	
8	4460950	1	Connector - 12 Position	
8	4460464	9	Pin, Male	
8	4460466	3	Plug, Terminal	

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FIGURE 8-14. ENGINE HARNESS - DEUTZ TD2011 ENGINES



ART_1001119470

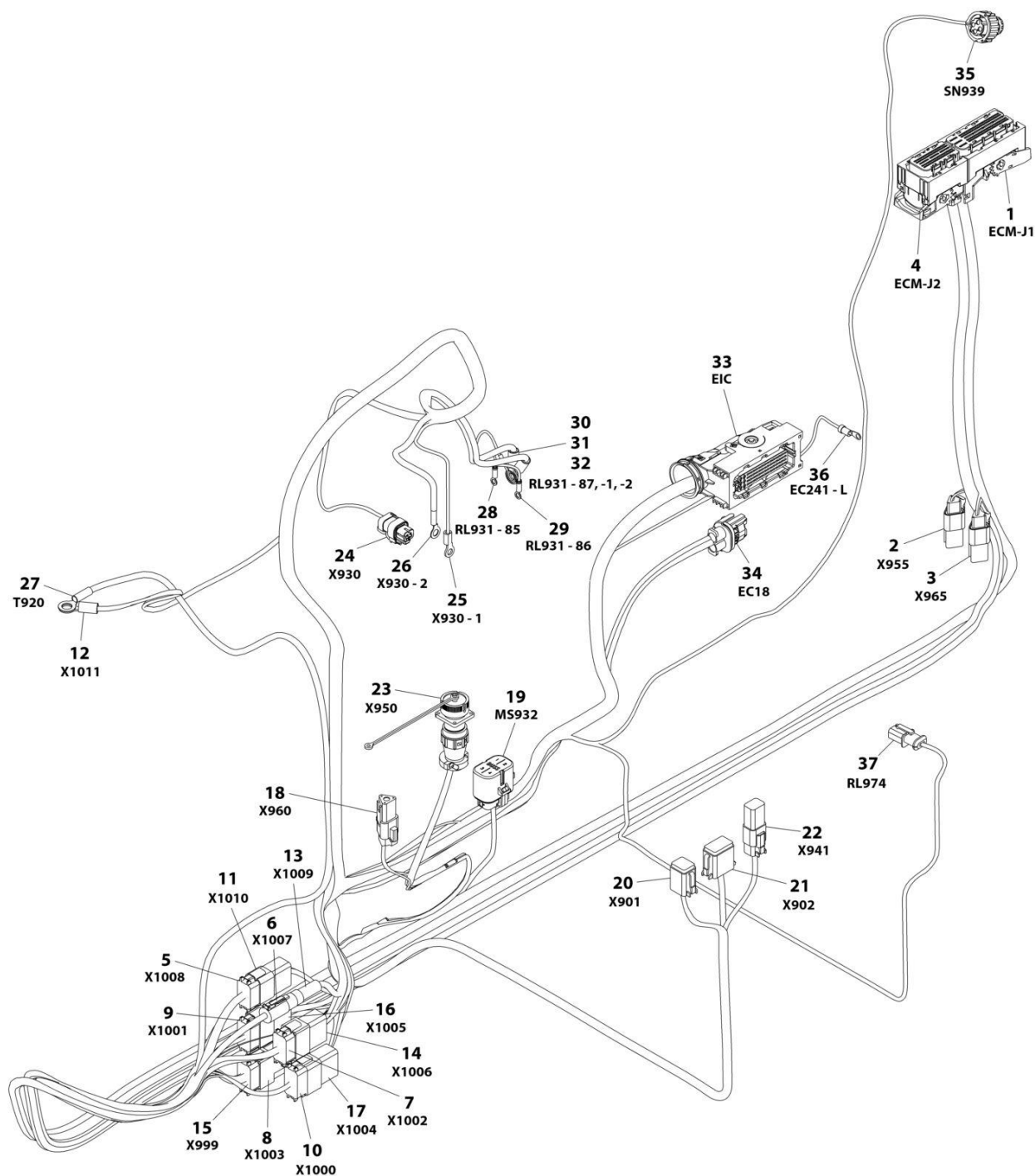
SECTION 8 - ELECTRICAL

FIGURE 8-14. ENGINE HARNESS - DEUTZ TD2011 ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119470	Ref	ENGINE HARNESS - DEUTZ TD2011 ENGINES	B
22	4460702	2	Terminal, Eyelet	
24	4460894	1	Connector - 6 Position	
24	4460465	2	Socket, Female	
24	4460466	1	Plug, Terminal	
24	4460944	3	Socket, Female	
27	4460313	3	Terminal, Eyelet	
28	4460019	2	Terminal, Eyelet	
32	4460315	1	Terminal, Fork	
43	4461052	1	Connector - 25 Position	
43	4461005	5	Terminal	
43	4461006	5	Seal	
43	4461060	2	Terminal (Tin)	
43	4461054	2	Seal, Terminal	
43	4461008	18	Plug, Hole	
43	4461053	1	Cover, Plug	
50	4240032	AR	Tie-Strap (Not Shown)	
51	4240033	AR	Tie-Strap (Not Shown)	
52	4461097	1	Terminal, Eyelet	
54	4461095	1	Connector - 3 Position	
54	4460944	3	Socket, Female	
55	4461070	1	Connector with Resistor (3 Position)	
58	4460930	1	Connector - 8 Position	
58	4460465	2	Socket, Female	
58	4460466	6	Seal, Plug	
59	2902443	1	Kit, Receptacle	
59	4461071	8	Terminal, Female (Gold)	
59	4461072	1	Connector, Flange Mount	
59	4461073	1	Connector, Dust Cap	
59	4461074	1	Connector, Shell	

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FIGURE 8-15. ENGINE HARNESS - DEUTZ TD2.9L4 ENGINES



ART_1001220261

SECTION 8 - ELECTRICAL

FIGURE 8-15. ENGINE HARNESS - DEUTZ TD2.9L4 ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001220261	Ref	ENGINE HARNESS - DEUTZ TD2.9L4 ENGINES	B
1	1001133956	1	Connector (Includes Cover, Locks and Retention Plate)	
1	1001126352	6	Terminal	
1	1001126384	19	Terminal	
1	1001126351	1	Terminal	
1	1001126357	3	Plug, Seal	
1	1001126356	65	Plug, Seal	
2	4461070	1	Connector with Resistor (3 Position)	
2	4461095	1	Connector - 3 Position	
2	4460944	2	Socket, Female	
2	4460466	1	Seal, Plug	
3	4461070	1	Connector with Resistor (3 Position)	
3	4461095	1	Connector - 3 Position	
3	4460944	2	Socket, Female	
3	4460466	1	Seal, Plug	
4	1001133957	1	Connector (Includes Cover, Locks and Retention Plate)	
4	1001126351	13	Terminal	
4	1001126384	17	Terminal	
4	1001126356	20	Plug, Seal	
4	1001126357	10	Plug, Seal	
5	4460930	1	Connector - 8 Position	
5	4460944	5	Socket, Female (Gold)	
5	4460465	2	Socket, Female	
5	4460466	1	Seal, Plug	
6	1001116707	1	Connector - 1 Position	
6	91143340	1	Terminal	
7	4460935	1	Plug, Brown - 12 Position	
7	4460465	12	Socket, Female	
8	4460970	1	Connector - 12 Position	
8	4460941	12	Pin, Male	
9	4460934	1	Connector, Green - 12 Position	
9	4460465	10	Socket, Female	
9	4460466	2	Seal, Plug	
10	4460836	1	Connector, Black - 12 Position	
10	4460465	8	Socket, Female	
10	4460466	4	Seal, Plug	
11	4460931	1	Connector - 8 Position (Gray)	
11	4460943	5	Pin, Male (Gold)	
11	4460466	3	Plug, Socket	
12	8220164	1	Terminal, Eyelet	
13	1001116967	1	Connector - 1 Position	
13	91143339	1	Terminal	
14	4460982	1	Connector - 12 Position	
14	4460464	12	Pin, Male	
15	4460933	1	Connector, Gray - 12 Position	
15	4460942	12	Socket, Female	
16	1001152742	1	Connector - 12 Position	
16	4460464	10	Pin, Male	
16	4460466	2	Seal, Plug	
17	4460950	1	Connector - 12 Position	

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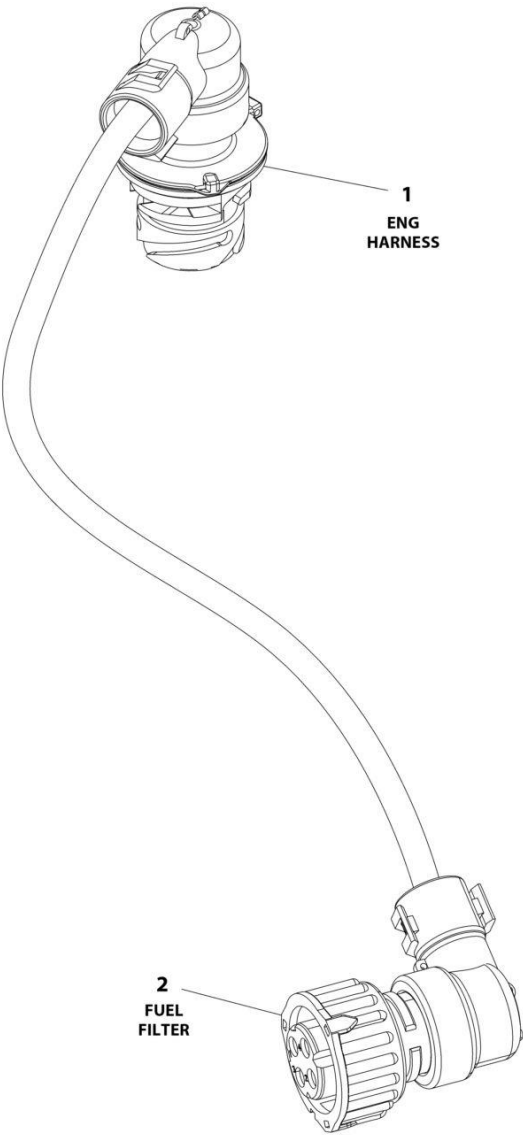
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17	4460464	8	Pin, Male	
17	4460466	4	Plug, Seal	
18	4461070	1	Connector with Resistor (3 Position)	
18	4461095	1	Connector - 3 Position	
18	4460944	2	Socket, Female	
18	4460466	1	Seal, Plug	
19	80484084	1	Connector - 8 Position	
19	8229242	1	Fuse - 5A	
19	80983191	1	Fuse - 10A	
19	1001147264	1	Cap	
19	1001116728	4	Plug	
19	4460458	4	Seal	
19	1001116727	4	Seal, Plug	
20	4460894	1	Connector - 6 Position	
20	4460465	3	Socket, Female	
20	4460944	2	Socket, Female	
20	4460466	1	Seal, Plug	
21	4460930	1	Connector - 8 Position	
21	4460465	1	Socket, Female	
21	4460466	7	Plug, Seal	
22	4460884	1	Connector - 4 Position	
22	4460465	2	Socket, Female	
22	4460942	2	Socket, Female	
22	4460932	1	Connector - 4 Position	
22	4460466	4	Seal, Plug	
23	2902443	1	Kit, Receptacle	
23	4461071	8	Terminal, Female (Gold)	
23	4461072	1	Connector, Flange Mount	
23	4461073	1	Connector, Dust Cap	
23	4461074	1	Connector, Shell	
24	1001116952	1	Connector - 2 Position	
24	4460465	2	Socket, Female	
25	4460043	1	Terminal, Eyelet	
26	1001117106	1	Terminal, Eyelet	
27	4460019	1	Terminal, Eyelet	
28	4460247	1	Terminal, Eyelet	
29	4460247	1	Terminal, Eyelet	
30	1001117107	1	Terminal, Eyelet	
31	1001117107	1	Terminal, Eyelet	
32	4460703	1	Terminal, Eyelet	
33	1001126362	1	Connector - 62 Position	
33	1001126363	33	Terminal	
33	1001126364	33	Seal	
33	1001126391	23	Plug	
33	4461008	4	Plug, Cavity	
33	1001126365	2	Terminal	
33	4461054	2	Seal	
34	1001142938	1	Connector - 2 Position	
34	1001142940	2	Terminal, Female	
34	1001142941	2	Seal	
35	1001133714	1	Connector - 4 Position	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	1001133715	3	Terminal, Female	
35	1001135650	1	Seal	
35	1001135651	1	Plug, Cavity	
36	4460042	1	Terminal, Eyelet	
37	1001138110	1	Connector - 2 Position	
37	1001138111	2	Socket, Female	
37	1001138113	2	Seal	

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FIGURE 8-16. FUEL FILTER HARNESS - DEUTZ TD2.9L4 T4I



ART_1001148843

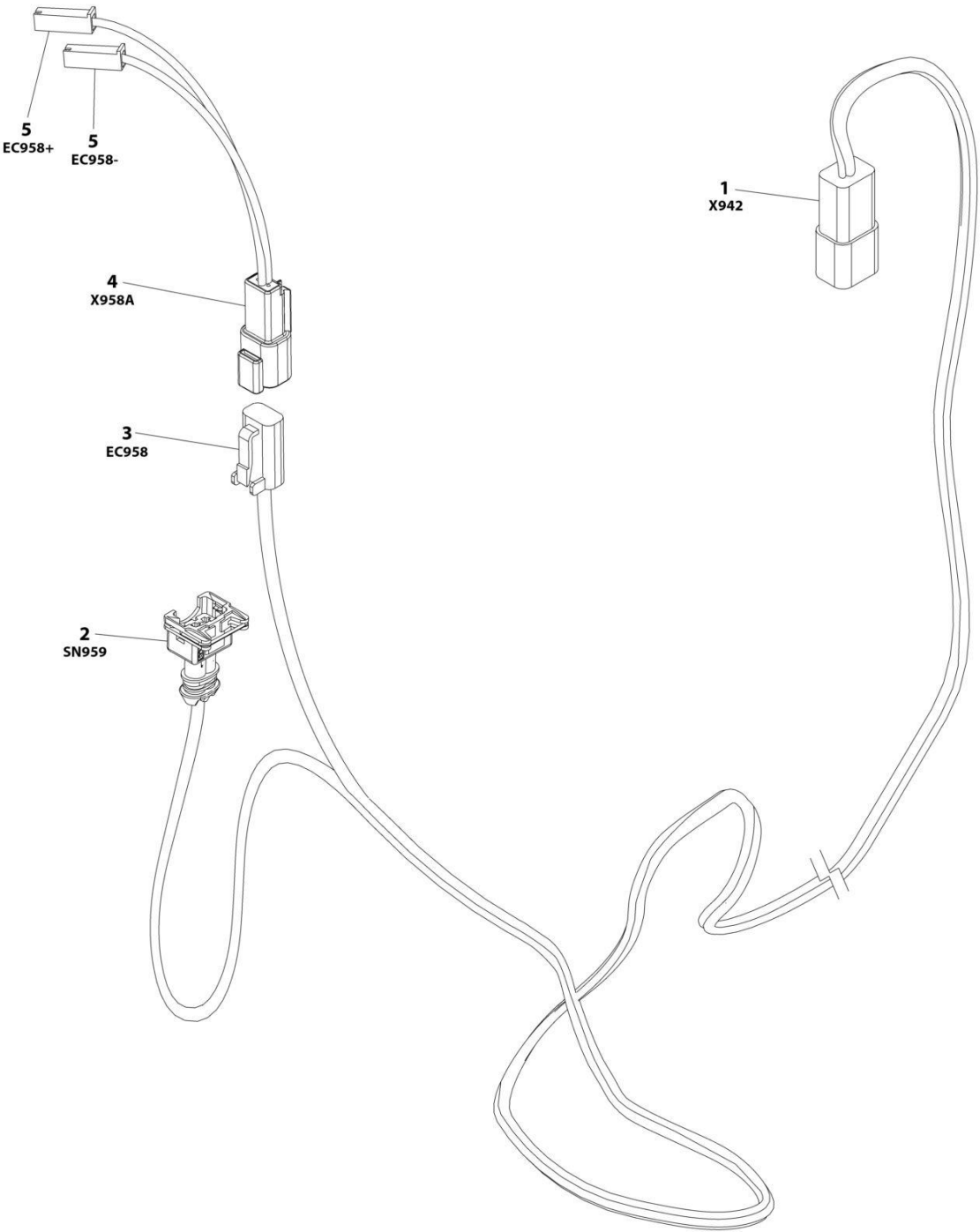
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FIGURE 8-16. FUEL FILTER HARNESS - DEUTZ TD2.9L4 T4I

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001148843	Ref	FUEL FILTER HARNESS - DEUTZ TCD2.9L4 ENGINES	A
1	1001148842	1	Connector - 4 Position	
1	1001148841	4	Pin, Male	
1	1001135650	4	Seal	
2	1001133714	1	Plug, Male - 4 Position	
2	1001133715	4	Socket, Female	
2	1001135650	4	Seal	

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FIGURE 8-17. FUEL PUMP HARNESS - DEUTZ TD2.9L4



ART_1001221289

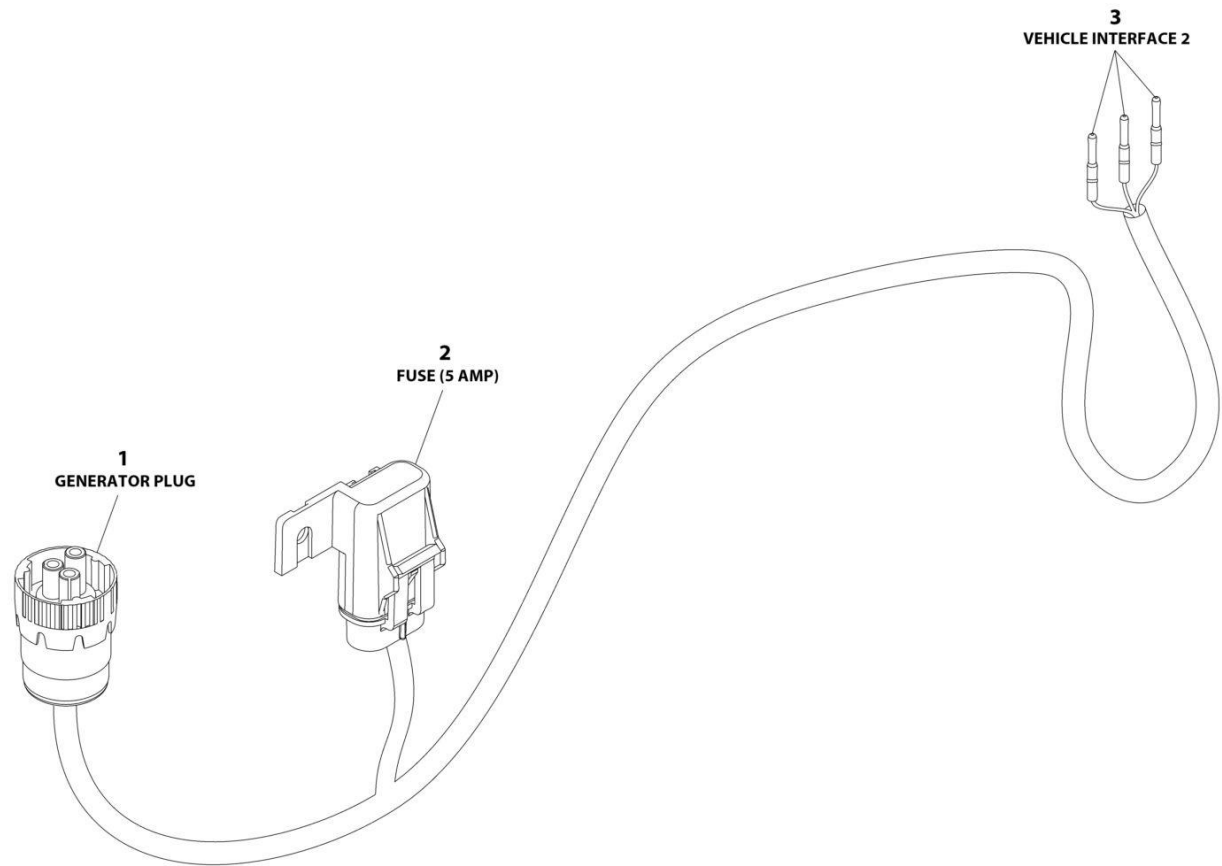
SECTION 8 - ELECTRICAL

FIGURE 8-17. FUEL PUMP HARNESS - DEUTZ TD2.9L4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221289	Ref	FUEL PUMP HARNESS - DEUTZ TD2.9L4	B
1	4460932	1	Connector - 4 Position	
1	4460464	2	Pin, Male	
1	4460941	2	Pin, Male	
2	1001116983	1	Connector - 2 Position	
2	1001116710	2	Socket, Female	
2	4461054	2	Seal	
3	4460891	1	Connector - 2 Position	
3	4460942	2	Socket, Female	
4	4460897	1	Connector - 2 Position	
4	4460941	2	Pin, Male	
5	4460260	2	Cover, Terminal	
5	4460259	2	Terminal	

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FIGURE 8-18. GENERATOR HARNESS - 7500W SKYPOWER (60HZ/240V) (DEUTZ TD2.9L4 T4F ENGINES) (OPTIONAL)



ART_1001119968

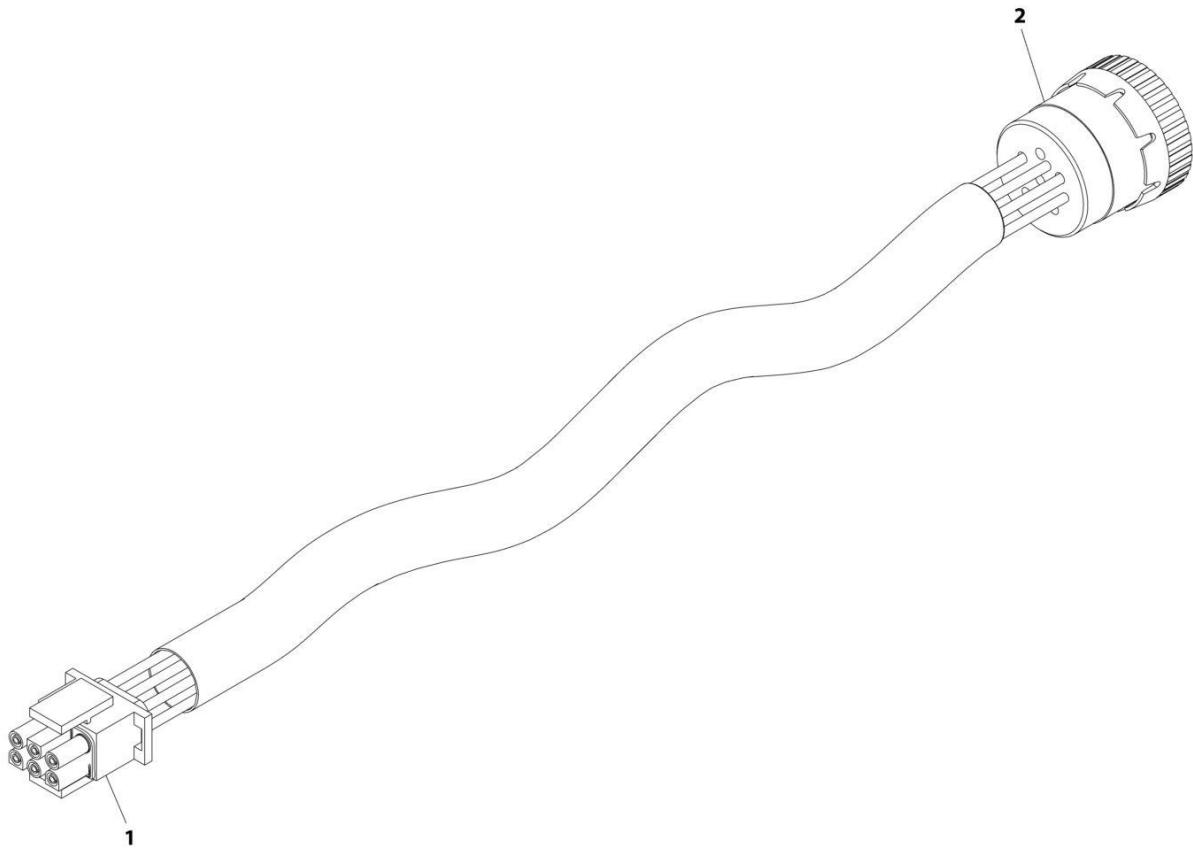
SECTION 8 - ELECTRICAL

FIGURE 8-18. GENERATOR HARNESS - 7500W SKYPOWER (60HZ/240V) (DEUTZ TD2.9L4 T4F ENGINES) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119968	Ref	GENERATOR HARNESS - 7500W GENERATOR	C
1	4460967	1	Connector - 3 Position	
1	4460465	3	Socket, Female	
2	1001117078	1	Connector, Metri-Pack with 5Amp Fuse	
3	4460465	3	Socket, Female	

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**FIGURE 8-19. GENERATOR CABLE HARNESS - 7500W SKYPOWER (60HZ/240V) (DEUTZ TD2.9L4
T4F ENGINES)**



ART_4922972

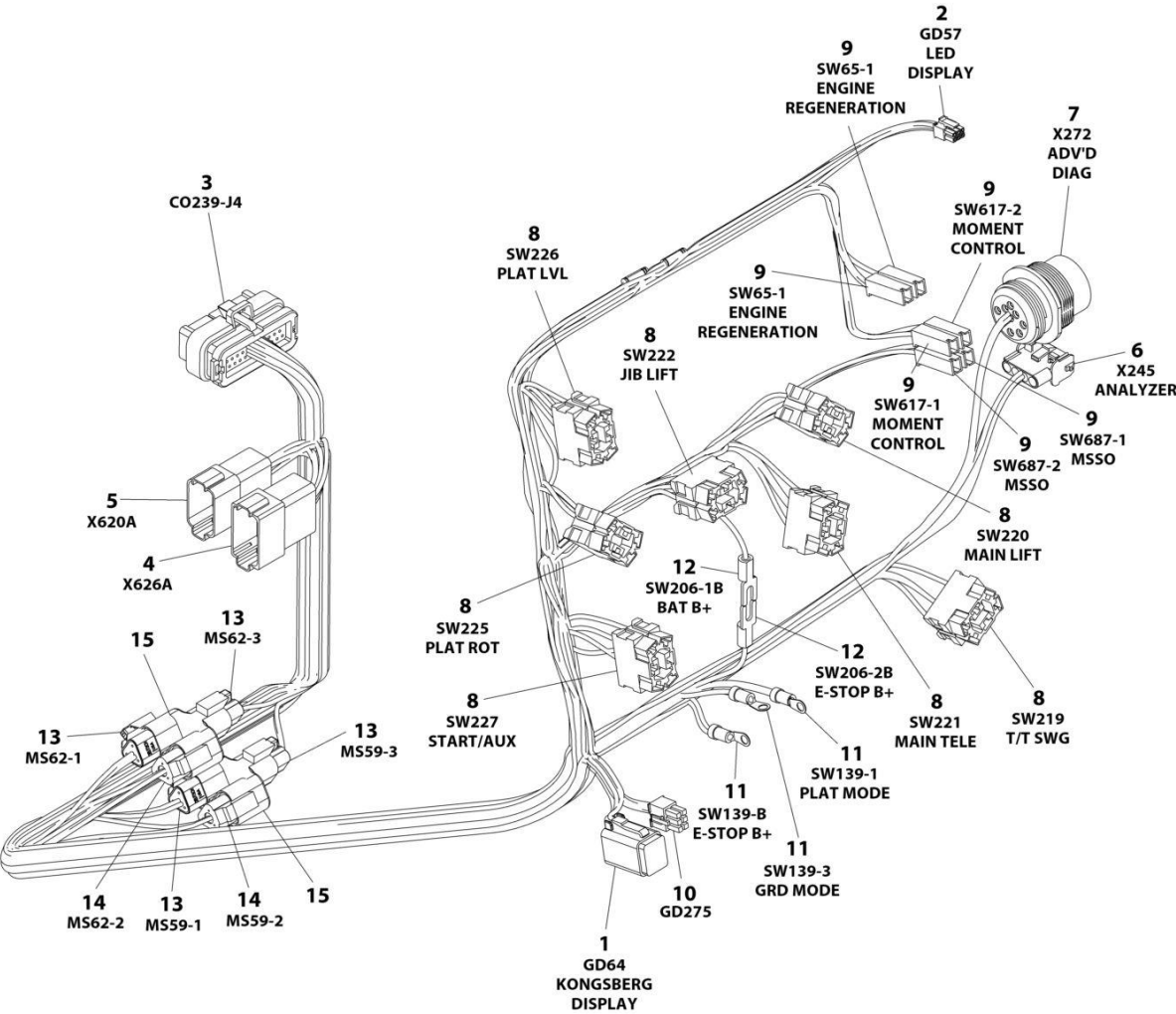
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FIGURE 8-19. GENERATOR CABLE HARNESS - 7500W SKYPOWER (60HZ/240V) (DEUTZ TD2.9L4 T4F ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922972	Ref	GENERATOR HARNESS - 7500W GENERATOR	C
1	4460225	1	Connector - 6 Position	
1	4460268	6	Socket, Female	
1	4460807	1	Seal, Plug	
1	4460808	1	Seal, Plug	
2	77363233	1	Connector - 6 Position	
2	4460465	6	Socket, Female	

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FIGURE 8-20. GROUND CONTROL PANEL HARNESS



ART_1001242745

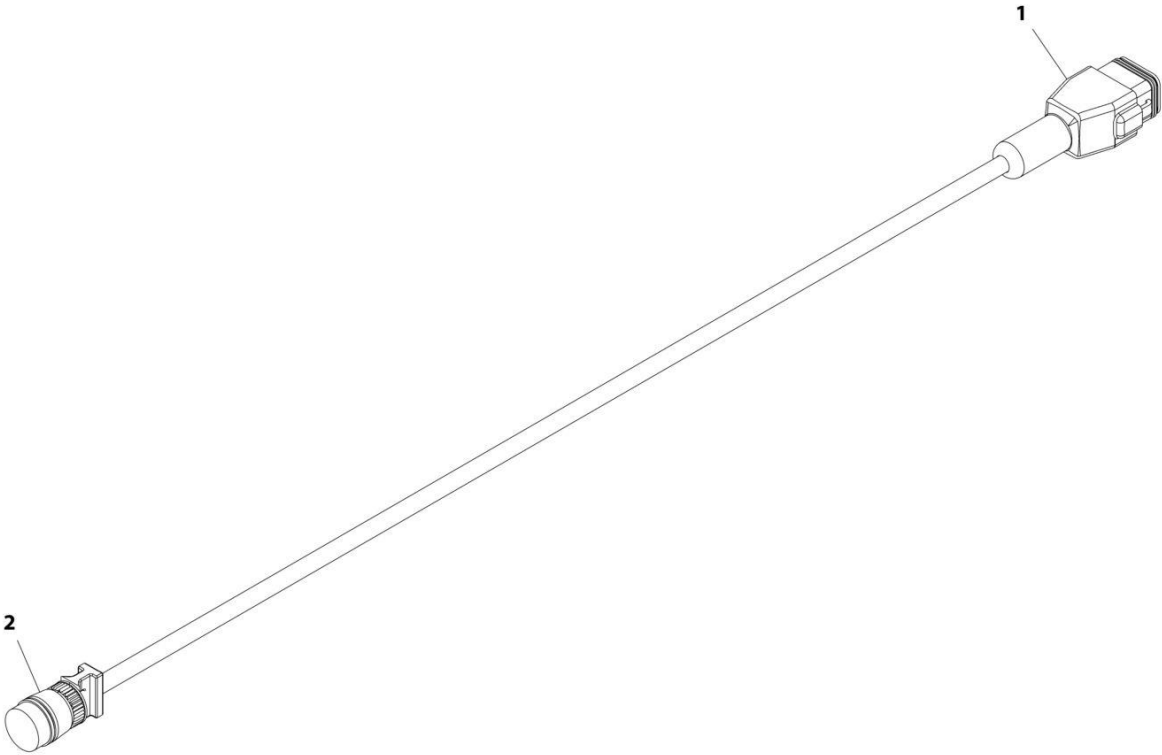
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FIGURE 8-20. GROUND CONTROL PANEL HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242745	Ref	GROUND CONTROL PANEL HARNESS	B
1	4460894	1	Connector - 6 Posiiton	
1	4460466	2	Plug, Terminal	
1	4460465	4	Socket, Female	
2	1001237667	1	Connector - 6 Posiiton	
2	1001237668	5	Socket, Female	
3	4460876	1	Connector - 35 Position	
3	4460905	16	Plug, Terminal	
3	4460871	19	Socket, Female	
4	4460670	1	Terminal, Ring	
4	4460464	10	Plug, Male	
4	4460466	2	Plug, Terminal	
5	4460931	1	Connector - 8 Position	
5	4460464	8	Plug, Male	
6	4460761	1	Receptacle, Female - 4 Position	
6	4460267	4	Pin, Male	
7	1001112612	1	Connector - 9 Position	
7	4460497	1	Nut, Terminal	
7	4460496	1	Washer, Terminal	
7	1001106736	1	Cap, Dust	
7	4460464	5	Plug, Male	
7	4460466	4	Plug, Terminal	
8	4460418	7	Connector - 6 Position	
8	1001159186	14	Socket, Female	
8	4460419	14	Socket, Female	
9	4460260	6	Cover, Terminal	
9	4460259	9	Terminal	
10	4460868	1	Plug, Male - 2 Position	
10	4460877	4	Socket, Female	
11	4460042	3	Terminal, Ring	
12	4460144	2	Terminal, Fork	
13	1001116812	4	Plug, Male - 3 Position	
13	4460944	8	Socket, Female	
13	4460466	4	Plug, Terminal	
14	4460539	2	Plug, Male - 3 Position	
14	4460944	4	Socket, Female	
14	4460466	2	Plug, Terminal	
15	4460945	2	Plug, Female 3-Way	

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FIGURE 8-21. LOAD SENSING PIN HARNESS



ART_4923256

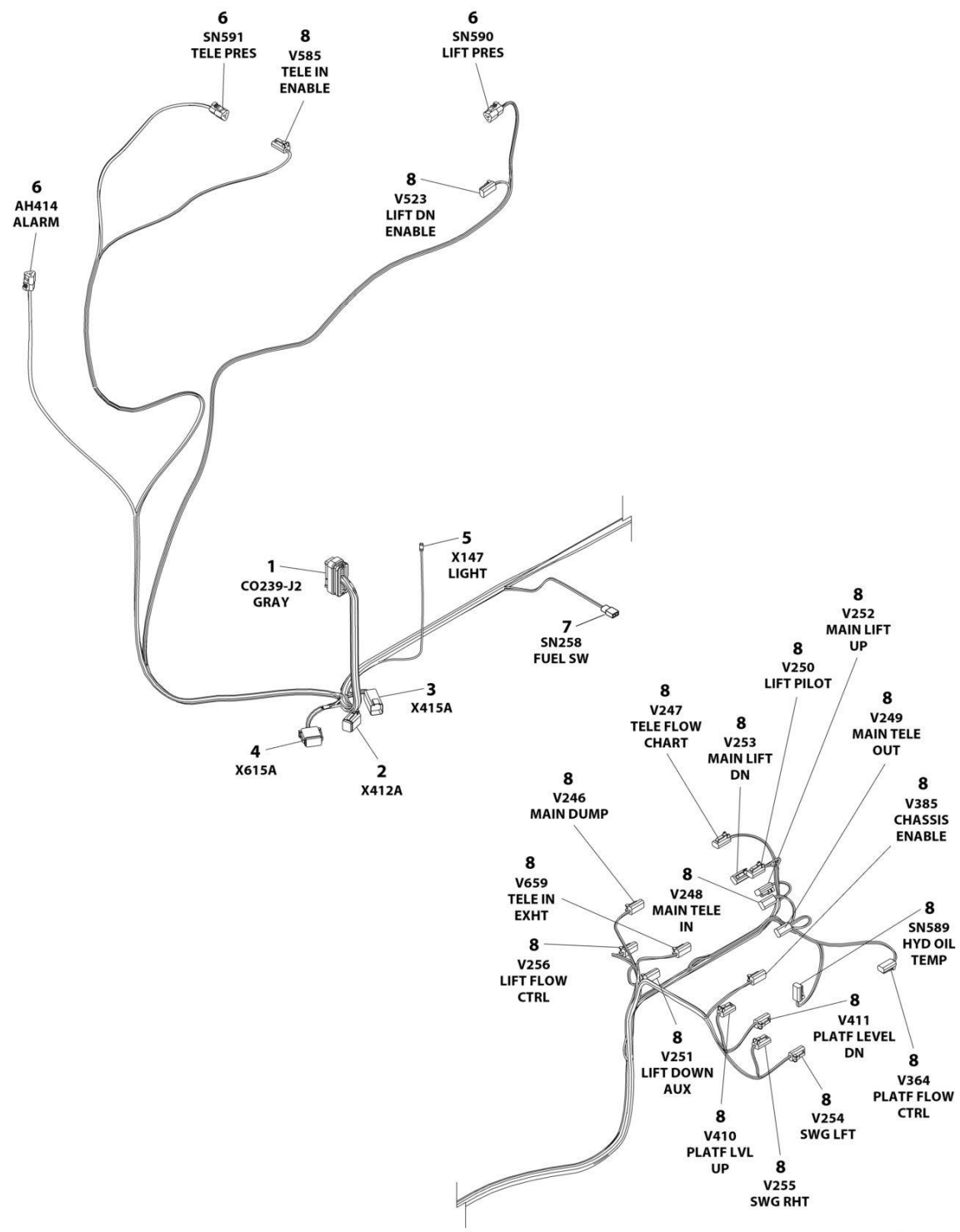
SECTION 8 - ELECTRICAL

FIGURE 8-21. LOAD SENSING PIN HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923256	Ref	LOAD SENSING PIN HARNESS	C
1	4460930	1	Connector - 8 Position (Gray)	
1	4460465	4	Socket, Female	
1	4460466	3	Plug, Sealing	
2	See Note	NSS	Connector - 4 Position (Note: Not Available for Purchase)	
2	See Note	NSS	Terminal (Note: Not Available for Purchase)	

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FIGURE 8-22. MAIN VALVE HARNESS



ART_1001194331

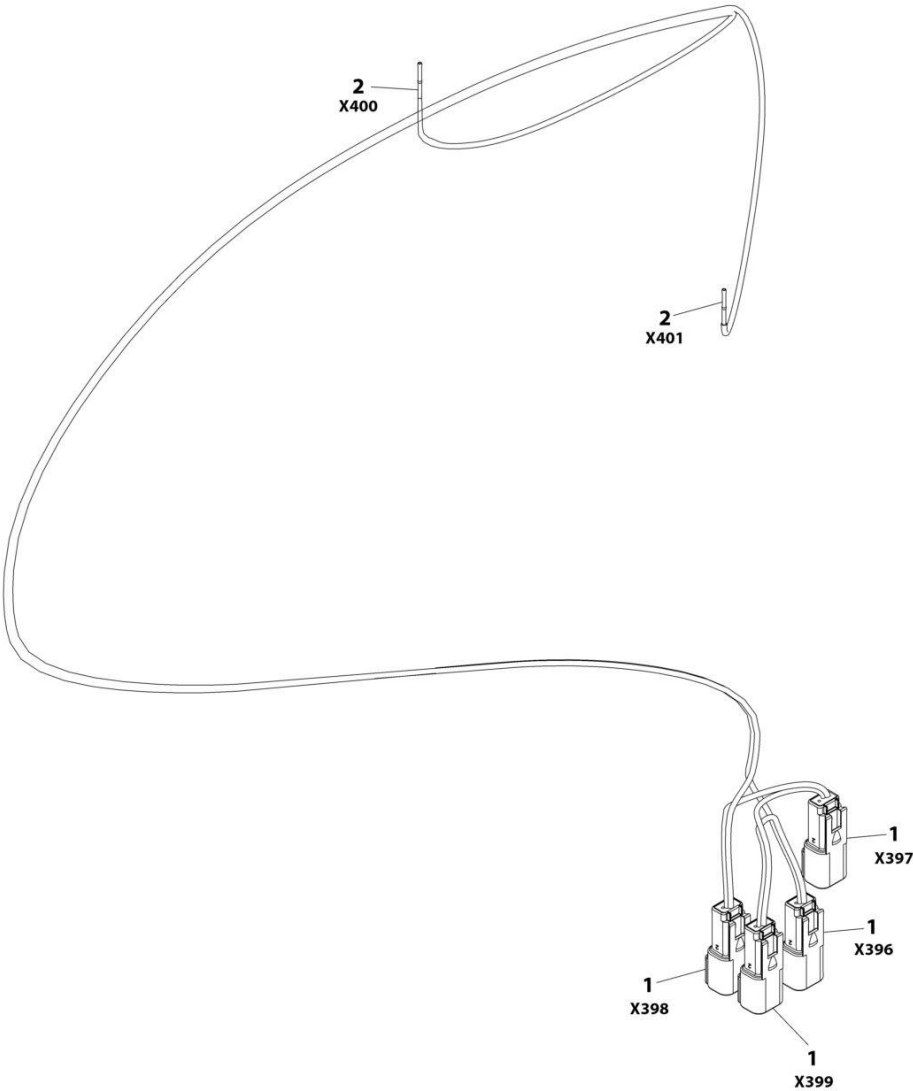
SECTION 8 - ELECTRICAL

FIGURE 8-22. MAIN VALVE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194331	Ref	MAIN VALVE HARNESS	H
1	4460875	1	Connector - 35 Position	
1	4460871	26	Socket, Female	
1	4460905	9	Plug, Terminal	
2	4460894	1	Plug, Male - 6 Position	
2	4460465	5	Socket, Female	
2	4460466	1	Plug, Terminal	
3	4460899	1	Receptacle, Female - 6 Position	
3	4460464	6	Pin, Male	
4	4460930	1	Plug, Male - 8 Position	
4	4460465	7	Socket, Female	
4	4460466	1	Plug, Terminal	
5	4460121	1	Terminal, Ring	
6	4460539	3	Plug, Male - 2 Position	
6	4460465	6	Socket, Female	
7	4460424	1	Plug, Male - 2 Position	
7	4460268	2	Socket, Female	
8	4460891	19	Plug, Male - 2 Position	
8	4460465	38	Socket, Female	

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FIGURE 8-23. OVERHEAD SOFT TOUCH HARNESS



ART_1001151201

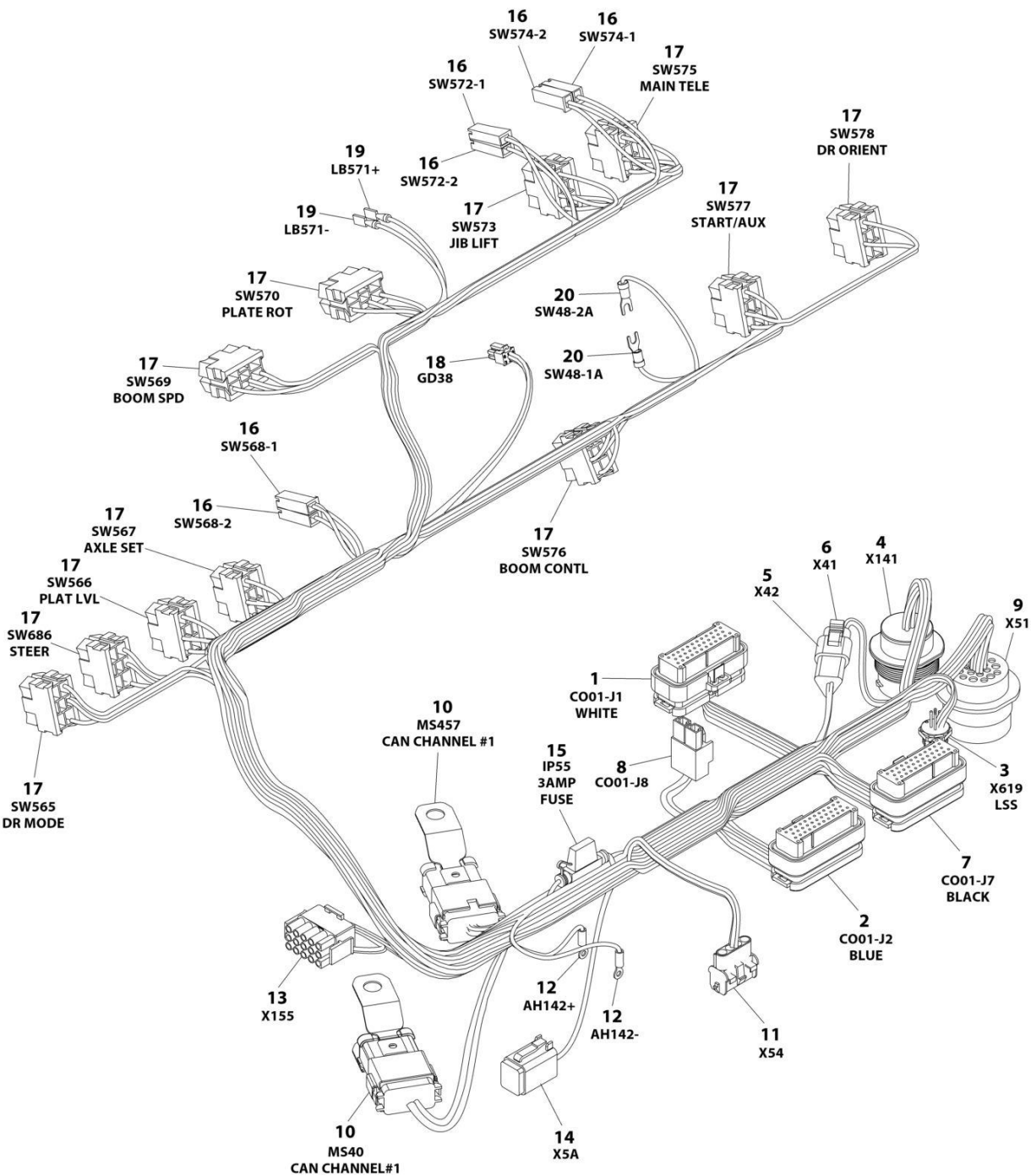
SECTION 8 - ELECTRICAL

FIGURE 8-23. OVERHEAD SOFT TOUCH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151201	Ref	OVERHEAD SOFT TOUCH HARNESS	A
1	4460897	4	Connector - 2 Position	
1	4460464	8	Pin, Male	
2	4460226	2	Socket, Female	

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FIGURE 8-24. PLATFORM CONSOLE BOX HARNESS



ART_1001243596

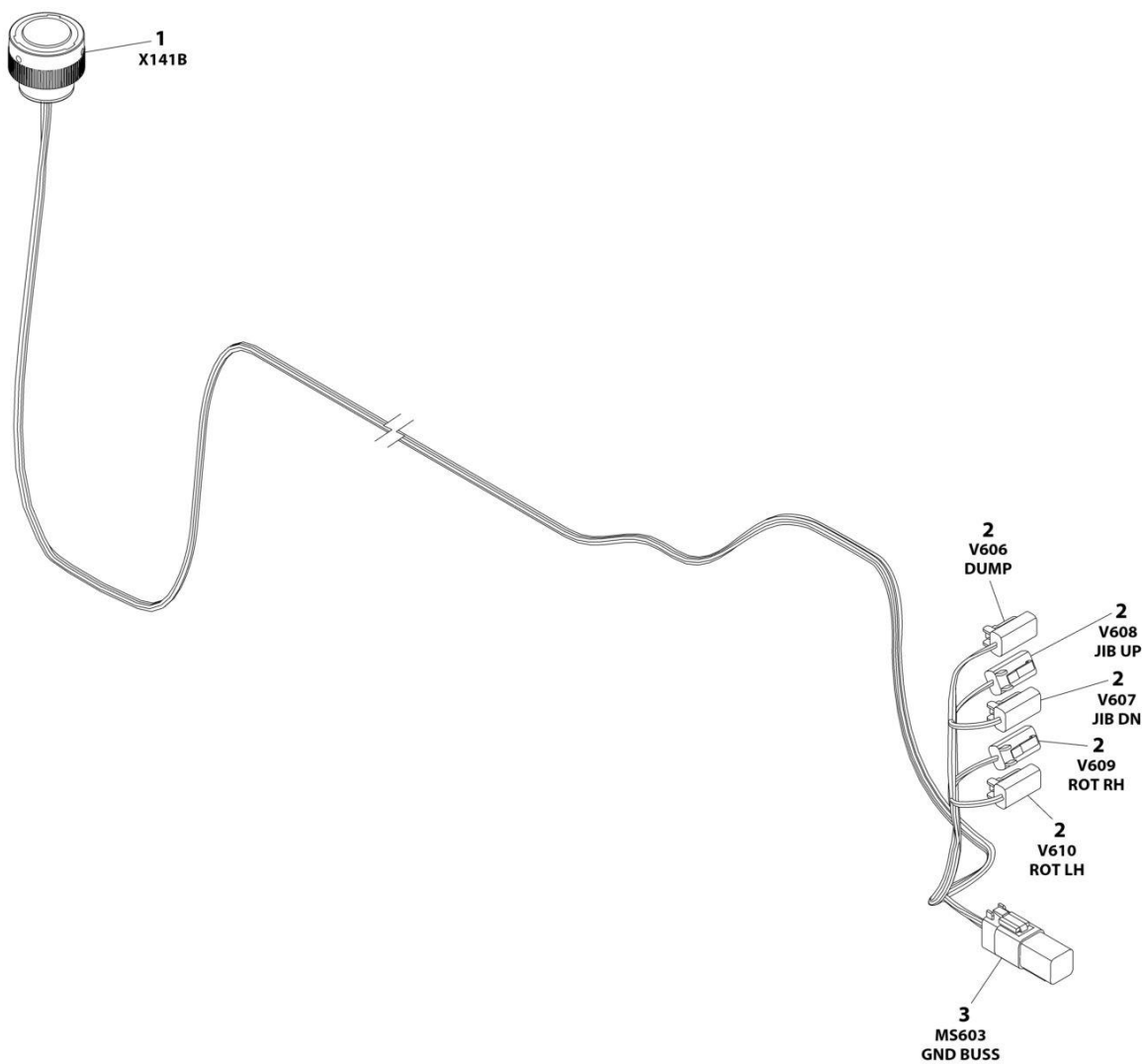
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FIGURE 8-24. PLATFORM CONSOLE BOX HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243596	Ref	PLATFORM CONSOLE BOX HARNESS	C
1	4460874	1	Connector - 35 Position	
1	4460871	24	Socket, Female	
1	4460905	11	Plug, Terminal	
2	4460876	1	Connector - 35 Position	
2	4460871	11	Socket, Female	
2	4460905	24	Plug, Terminal	
3	1001213447	1	Receptacle, Female - 5 Position (With Wires & Terminals)	
4	4460925	1	Connector - 21 Position	
4	1001126011	7	Pin, Male	
4	4460518	14	Plug, Terminal	
5	4460536	1	Receptacle, Female - 3 Position	
5	4460943	3	Pin, Male	
6	4460539	1	Plug, Male - 3 Position	
6	4460944	3	Socket, Male	
7	4460873	1	Connector - 35 Position	
7	4460871	19	Socket, Female	
7	4460905	16	Plug, Terminal	
8	4460879	1	Plug, Male - 2 Position	
8	4460887	2	Terminal	
9	4460866	1	Connector - 19 Position	
9	4460943	3	Pin, Male	
9	4460464	5	Pin, Male	
9	4460508	2	Pin, Male	
9	4460466	9	Plug, Terminal	
10	4460933	2	Plug, Male - 12 Position	
10	4460465	17	Socket, Female	
10	4460466	7	Plug, Terminal	
10	1001119020	2	Bussbar - 12 Position	
10	1001120328	2	Mount	
11	4460761	1	Receptacle, Female - 4 Position	
11	4460227	4	Pin, Male	
12	1001098122	2	Terminal, Ring	
13	4460434	2	Plug, Male - 15 Position	
13	4460227	6	Pin, Male	
13	4460267	12	Pin, Male	
14	4460894	1	Plug, Male - 6 Position	
14	4460465	4	Socket, Female	
14	4460466	2	Plug, Terminal	
15	2400060	1	Fuseholder with Cover	
15		Ref	Fuse - 3 AMP	
16	4460260	6	Cover, Terminal	
16	4460259	6	Terminal	
17	4460418	11	Connector - 6 Position	
17	4460419	20	Socket, Female	
17	1001159186	21	Socket, Female	
18	1001237667	1	Plug, Male - 6 Position	
18	1001237668	4	Socket, Female	
19	4460016	2	Terminal	
20	4460183	2	Terminal, Fork	

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FIGURE 8-25. PLATFORM VALVE HARNESS (1100SJ)



ART_1001231797

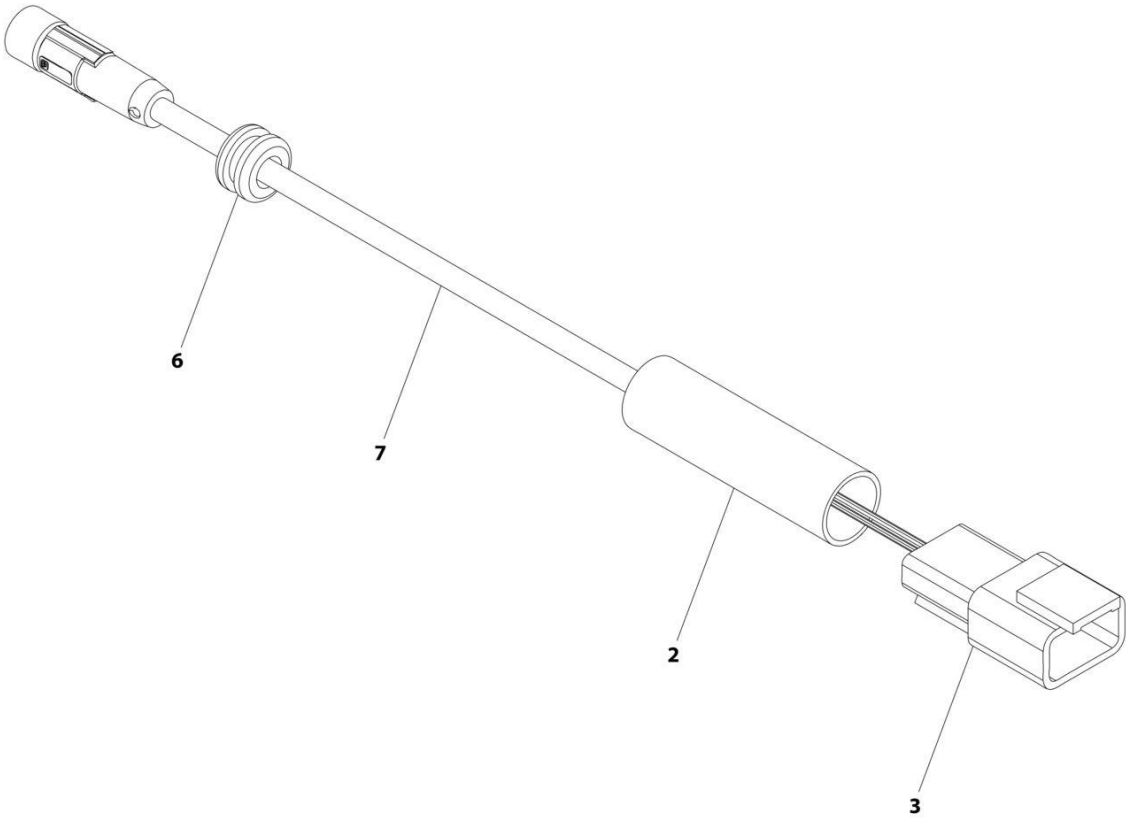
SECTION 8 - ELECTRICAL

FIGURE 8-25. PLATFORM VALVE HARNESS (1100SJ)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231797	1	PLATFORM VALVE HARNESS	A
1	4460926	1	Connector - 21 Position	
1	4460928	7	Socket, Female	
1	4460518	14	Plug, Terminal	
2	4460891	5	Plug, Male - 2 Position	
2	4460465	10	Socket, Female	
3	4460894	1	Plug, Male - 6 Position	
3	4460465	5	Socket, Female	
3	4460466	1	Plug, Terminal	
3	4460892	1	Bussbar - 6 Position	

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FIGURE 8-26. SKYEYE EMITTER HARNESS



ART_1001237864

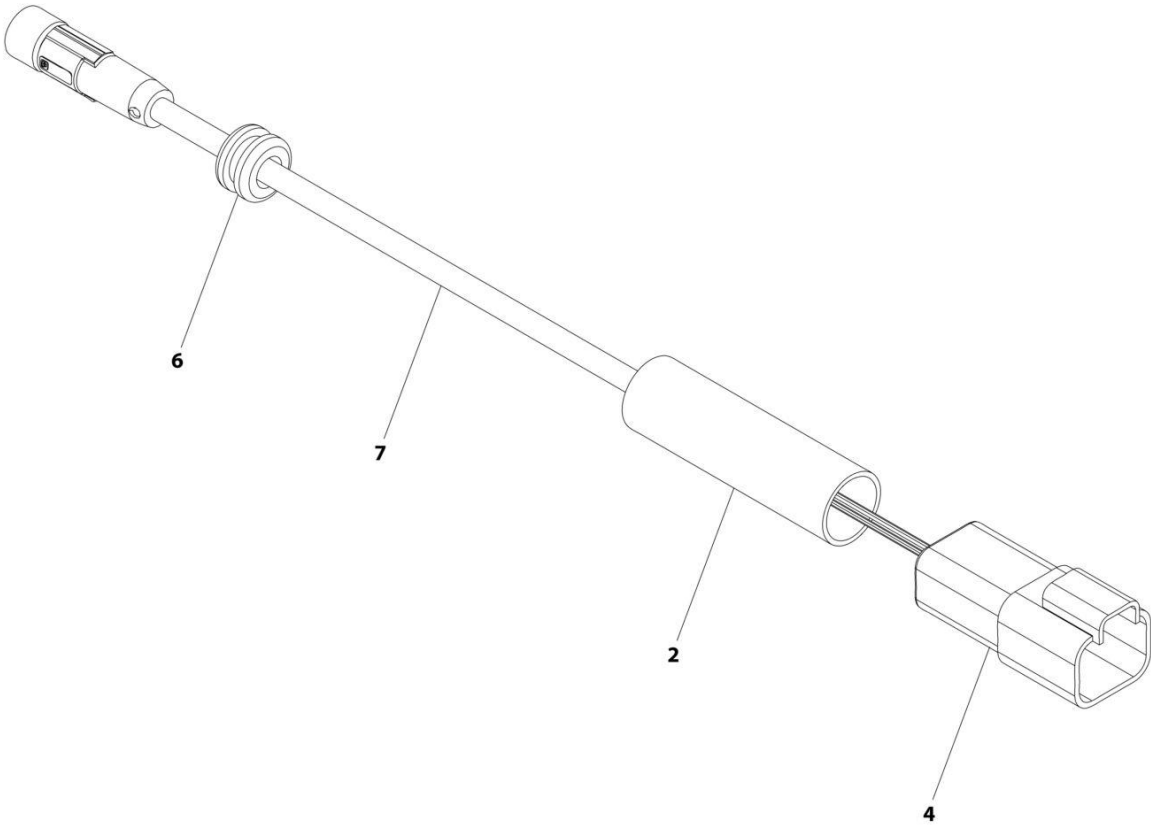
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FIGURE 8-26. SKYEYE EMITTER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237864	Ref	SKYEYE EMITTER HARNESS	A
2	2820247	AR	Tubing, Heat Shrink	
3	4460910	1	Connector - 3 Position	
3	1001119620	3	Pin, Male	
6	1001227996	1	Grommet	
7	1001237862	1	Cable, M8 Female Cordset	

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FIGURE 8-27. SKYEYE RECEIVER HARNESS



ART_1001237863

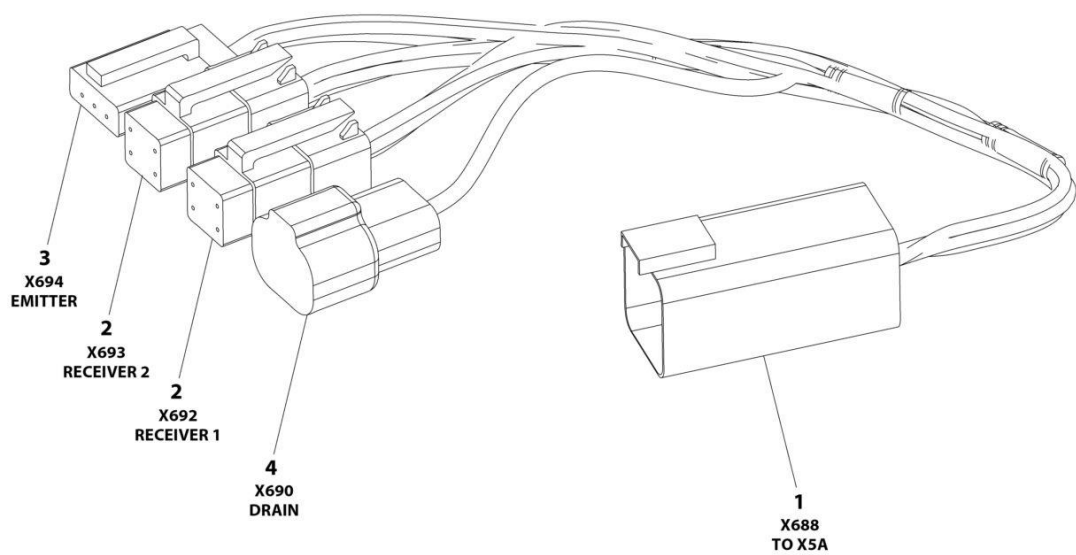
SECTION 8 - ELECTRICAL

FIGURE 8-27. SKYEYE RECEIVER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237863	Ref	SKYEYE RECEIVER HARNESS	A
2	2820247	AR	Tubing, Heat Shrink	
4	1001097051	1	Connector - 4 Position	
4	1001119620	4	Pin, Male	
6	1001227996	1	Grommet	
7	1001237862	1	Cable, M8 Female Cordset	

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FIGURE 8-28. SKYEYE INTERMEDIATE HARNESS



ART_1001237865

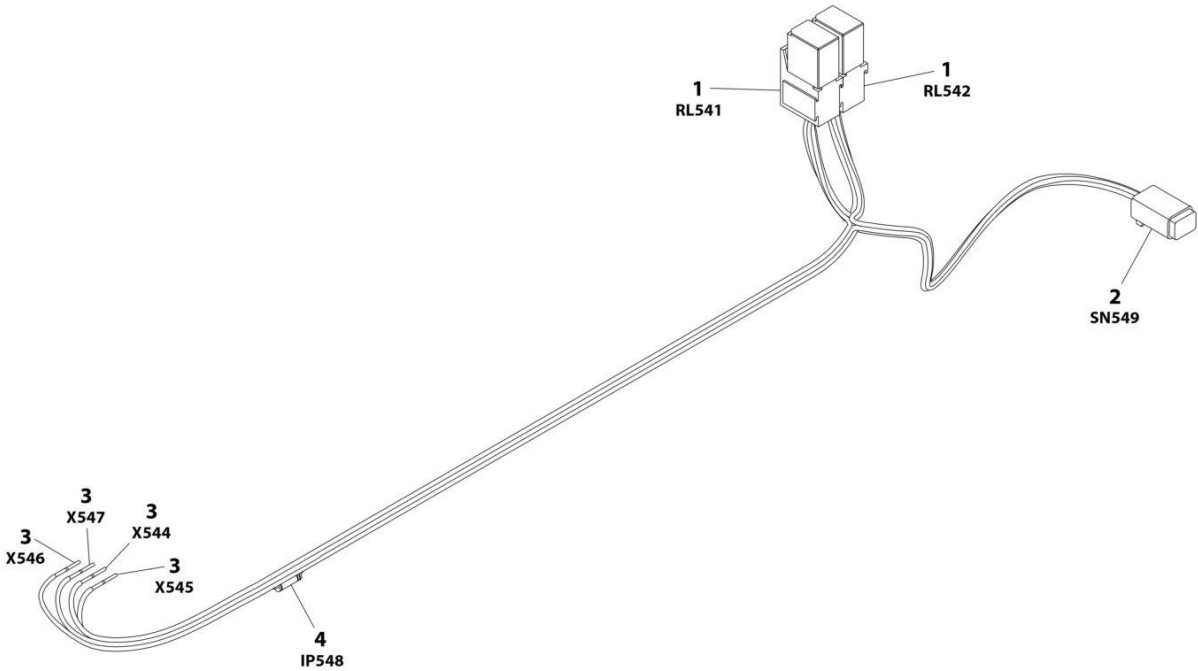
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FIGURE 8-28. SKYEYE INTERMEDIATE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237865	Ref	SKYEYE INTERMEDIATE HARNESS	A
1	4460899	1	Connector - 6 Position	
1	4460943	4	Pin, Male	
1	4460466	2	Plug, Terminal	
2	4461077	2	Connector - 4 Position	
2	1001119619	8	Socket, Female	
3	4460911	1	Connector - 3 Position	
3	1001119619	3	Socket, Female	
4	1001187681	1	Connector - 2 Position	
4	4460941	1	Pin, Male	
4	4460466	1	Plug, Terminal	

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FIGURE 8-29. SKYGUARD SENSOR HARNESS



ART_1001199904

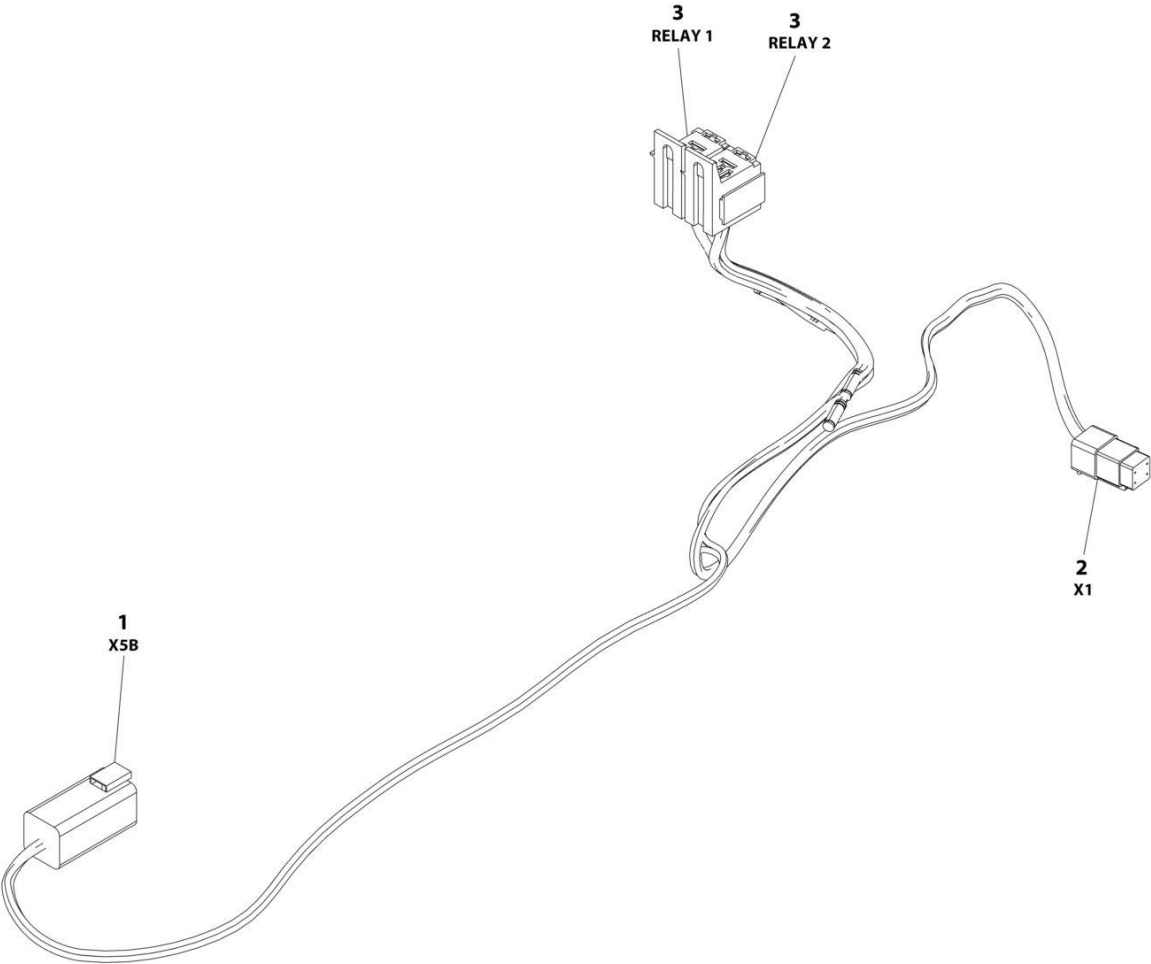
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FIGURE 8-29. SKYGUARD SENSOR HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199904	Ref	SKYGUARD SENSOR HARNESS	B
1	1001186432	2	Connector, Relay	
1	1001116720	5	Terminal	
1	1001118388	6	Terminal	
1	1001186431	2	Relay	
2	4460884	1	Plug, Male - 4 Position	
2	4460465	4	Socket, Female	
3	4460226	4	Socket, Female	
3	4460465	5	Socket, Female	
4	See Note	NSS	Resistor 18Ohm/25W (Note: Use p/n 1001199904)	

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FIGURE 8-30. SKYLINE HARNESS



ART_1001238418

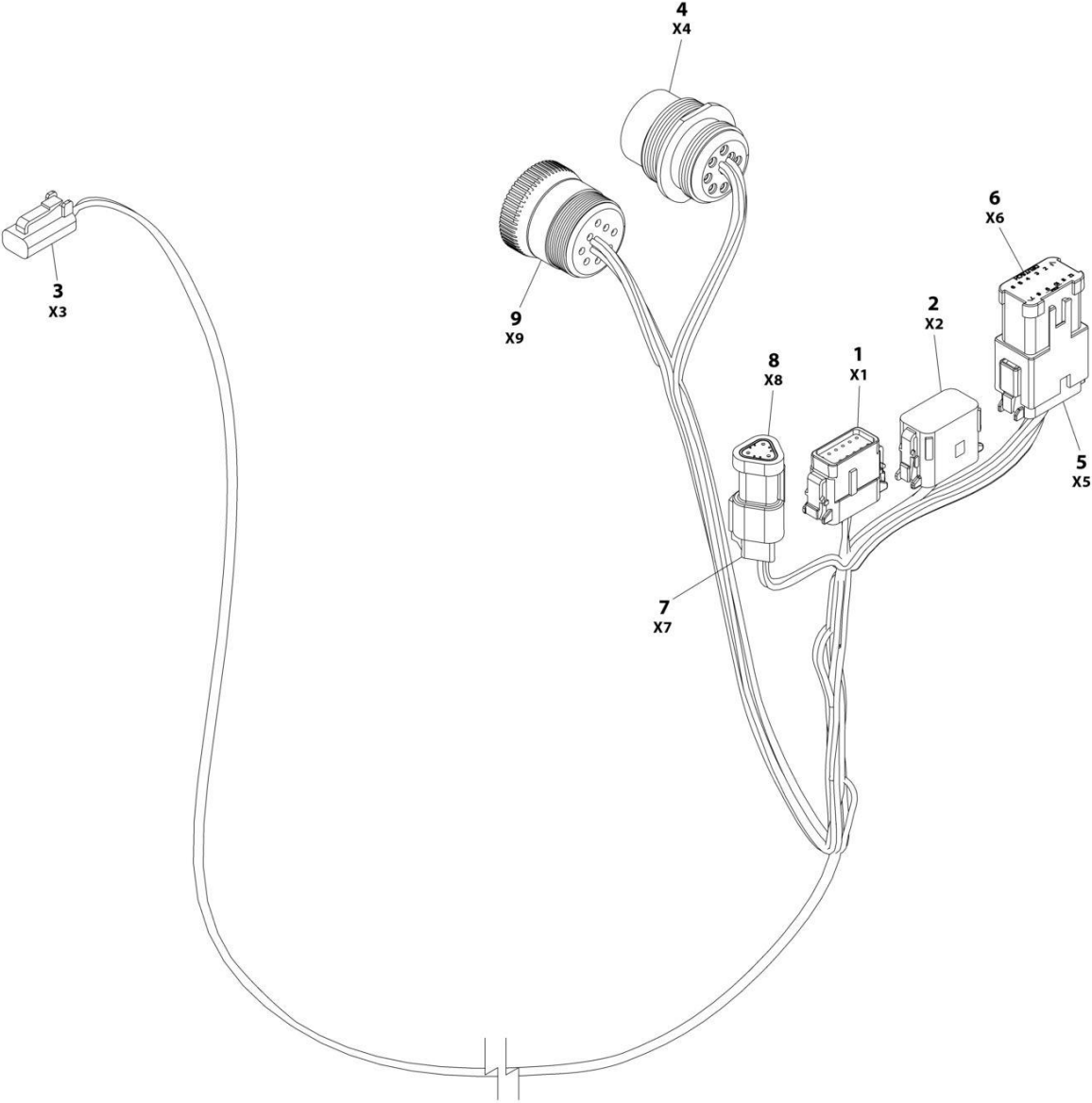
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FIGURE 8-30. SKYLINE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238418	Ref	SKYLINE HARNESS	B
1	4460899	1	Connector - 6 Position	
1	4460464	4	Pin, Male	
1	4460466	2	Plug, Terminal	
2	4461077	1	Connector - 4 Position	
2	1001126009	4	Socket, Female	
3	1001186432	2	Plug, Relay	
3	1001118388	5	Terminal	
3	1001118384	3	Terminal	
3	3740086	2	Relay	

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FIGURE 8-31. STROBE LIGHT CONTROL HARNESS (BLUE LIGHT)



ART_1001142736

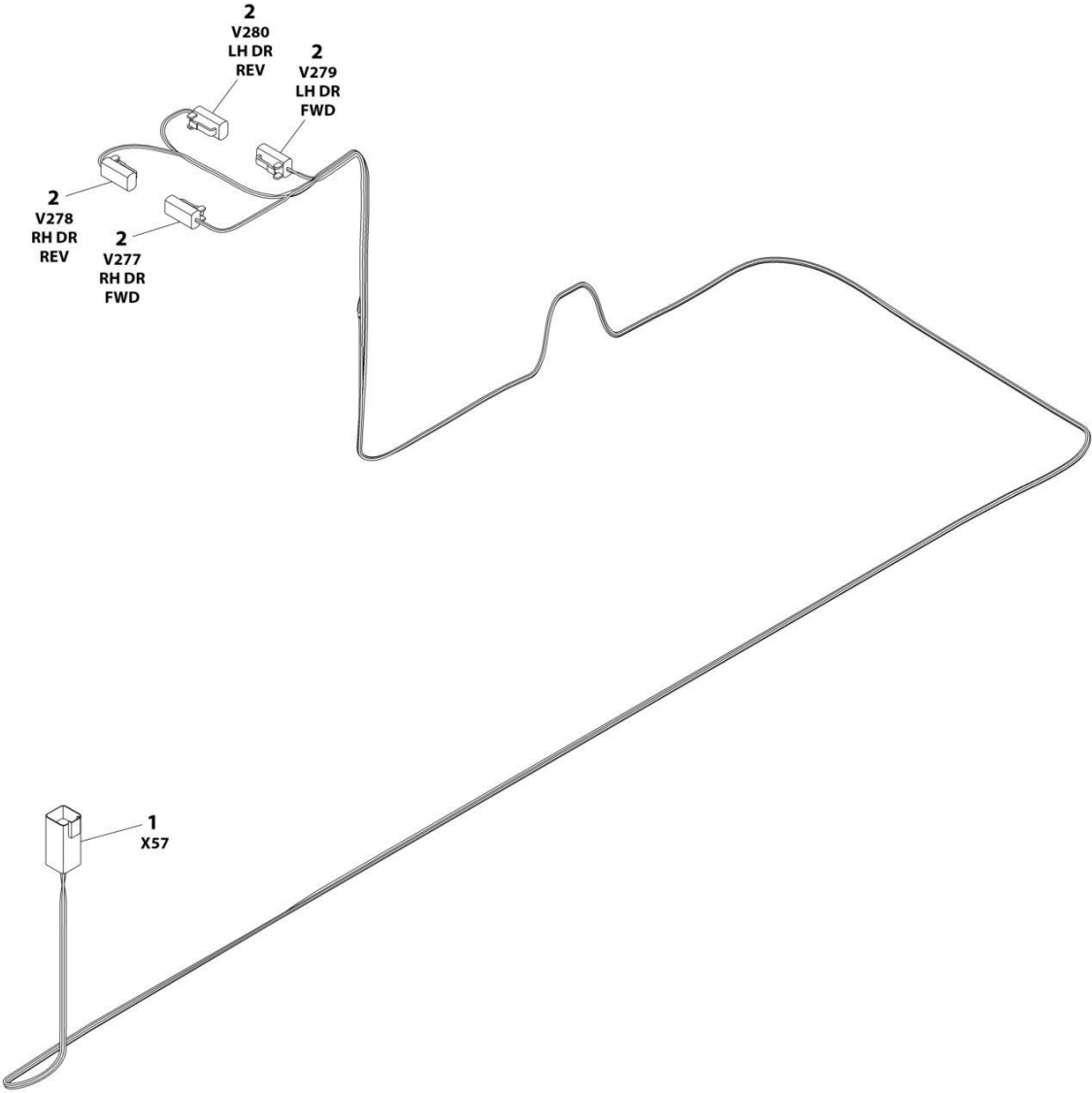
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FIGURE 8-31. STROBE LIGHT CONTROL HARNESS (BLUE LIGHT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142736	Ref	STROBE LIGHT HARNESS	F
1	1001116808	1	Plug, Male - 12 Position	
1	4460928	3	Socket, Female	
1	4460518	9	Plug, Terminal	
2	1001116774	1	Plug, Male - 12 Position	
2	4460928	3	Socket, Female	
2	4460518	9	Plug, Terminal	
3	4460891	1	Plug, Male - 2 Position	
3	4460465	2	Socket, Female	
4	1001112612	1	Connector - 9 Position	
4	4460464	6	Pin, Male	
4	4460466	3	Plug, Terminal	
5	4460933	1	Plug, Male - 12 Position	
5	4460465	12	Socket, Female	
6	1001119020	1	Bussbar - 12 Position	
7	4461095	1	Plug, Male - 3 Position	
7	4460465	3	Socket, Female	
8	4461070	1	Bussbar - 3 Position	
9	1001112796	1	Connector - 9 Position	
9	4460465	6	Socket, Female	
9	4460466	3	Plug, Terminal	

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FIGURE 8-32. SWING DRIVE HARNESS



ART_1001150480

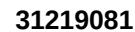
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FIGURE 8-32. SWING DRIVE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150480	Ref	SWING DRIVE HARNESS	E
1	4460899	1	Receptacle, Female - 6 Position	
1	4460464	5	Pin, Male	
1	4460466	1	Plug, Terminal	
2	4460891	4	Plug, Male - 2 Position	
2	4460465	16	Socket, Female	

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ART_1001242744

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FIGURE 8-33. TURNTABLE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242744	Ref	TURNTABLE HARNESS	C
1	4460874	1	Connector - 35 Position (Natural)	
1	4460871	16	Pin, Male	
1	4460905	19	Plug, Terminal	
2	4460873	1	Connector - 35 Position (Black)	
2	4460871	13	Pin, Male	
2	4460905	22	Plug, Terminal	
3	4460878	1	Plug, Male - 4 Position	
3	4460887	4	Terminal	
4	1001113961	1	Plug, Male - 8 Position	
4	4460905	3	Plug, Terminal	
4	4460871	5	Socket, Female	
5	4460872	1	Connector - 14 Position	
5	4460871	1	Pin, Male	
5	4460905	7	Plug, Terminal	
5	4460871	7	Pin, Male	
6	4460884	2	Plug, Male - 4 Position	
6	1001192401	1	Cap, Dust	
6	4460942	2	Socket, Female	
6	4460466	2	Plug, Terminal	
6	4460465	4	Socket, Female	
7	4460945	1	Plug, Female 3-Way	
7	4460465	2	Socket, Female	
7	4460466	1	Plug, Terminal	
8	1001116812	1	Plug, Male - 3 Position	
8	4460465	2	Socket, Female	
8	4460466	1	Plug, Terminal	
9	4460930	1	Plug, Male - 8 Position	
9	4460465	8	Socket, Female	
10	4460933	3	Plug, Male - 12 Position	
10	1001119020	2	Bussbar - 12 Position	
10	4460465	24	Socket, Female	
10	4460466	12	Plug, Terminal	
11	4460536	1	Receptacle, Female - 3 Position	
11	4460464	3	Pin, Male	
12	4460932	1	Receptacle, Female - 4 Position	
12	4460464	4	Pin, Male	
13	2400066	3	Fuseholder with Cover	
14	4460670	3	Terminal, Ring	
15	2400060	3	Fuseholder with Cover	
16	See Note	NSS	Fuse 6A (Note: Purchase Locally)	
17	4460866	1	Connector - 19 Position	
17	4460466	9	Plug, Terminal	
17	4460464	8	Pin, Male	
17	4460508	2	Pin, Male	
18	4460894	1	Plug, Male - 6 Position	
18	4460465	6	Socket, Female	
19	4460899	2	Receptacle, Female - 6 Position	
19	4460464	10	Pin, Male	
19	4460466	2	Plug, Terminal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
20	1001117025	2	Relay Assembly	
20	1001116734	4	Terminal	
20	1001116732	4	Terminal	
20	1001128128	2	Plug, Terminal	
21	4460836	3	Plug, Male - 12 Position	
21	4460837	2	Bussbar - 12 Position	
21	4460942	6	Socket, Female	
21	4460466	15	Plug, Terminal	
21	4460465	15	Socket, Female	
22	4460931	2	Receptacle, Female - 8 Position	
22	4460464	11	Pin, Male	
22	4460466	5	Plug, Terminal	
23	4460313	1	Terminal, Ring	
24	4460702	1	Terminal, Ring	
25	8220045	2	Terminal, Ring	
26	4460897	1	Receptacle, Female - 2 Position	
26	4460464	2	Pin, Male	
27	4460019	1	Terminal, Ring	
28	4460256	1	Terminal, Ring	
28	4460019	1	Terminal, Ring	
29	4460539	1	Plug, Male - 3 Position	

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FIGURE 8-34. WHITE NOISE ALARM HARNESS



ART_1001243682

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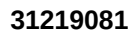
FIGURE 8-34. WHITE NOISE ALARM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243682	Ref	WHITE NOISE ALARM HARNESS	A
1	4460891	1	Plug, Male - 2 Position	
1	4460465	2	Socket, Female	
2	4460871	1	Terminal	
3	4460539	1	Plug, Male- 3 Position	
3	4460465	3	Socket, Female	
4	4460536	1	Receptacle, Female- 3 Position	
4	4460464	3	Pin, Male	

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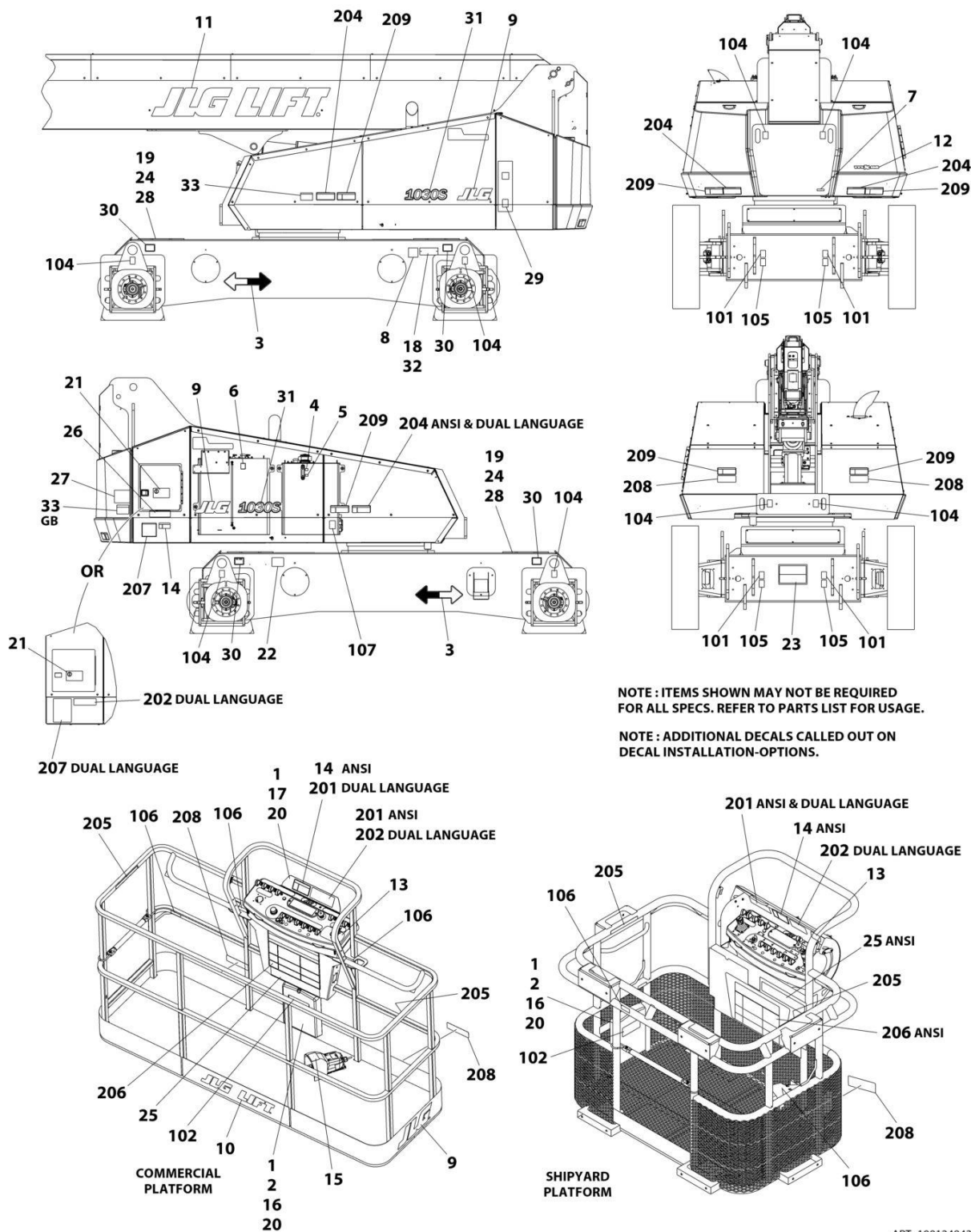
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FIGURE 9-1. DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248437	Ref	DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	7	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
10	1702774	1	Decal - JLG Lift 3 1/2in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1705351	1	Decal - Drive/Steer Instructions	
14	1705492	2	Decal - Tip-Over Hazard	
15	3252347	1	Decal - Footswitch	
16	3311405	4	Nut 1/4	
17	3380474	1	Plate - Decal	
18	3820001	2	Rivet	
20	4751400	7	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
22	1001131269	1	Decal - Patent	
23	1001150079	1	Decal - Lift Diagram	
25	1001254240	1	Decal - Warning Dual Cap	
26	1001254241	1	Decal - Warning Dual Cap	
27	1001203790	1	Decal - Daily Check List	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248542	1	Decal - Kit English	
201	1705337	1	Decal - Tip-Over	
204	1703953	7	Decal - Warning Crushing	
205	1702868	2	Decal - No Hands	
206	1703797	1	Decal - Warning/Danger	
207	1705336	1	Decal - Warning Inspection	
208	1703804	5	Decal - Warning Crushing	
209	1703805	6	Decal - Electrocution	

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FIGURE 9-2. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH LANGUAGE)



ART_1001248439

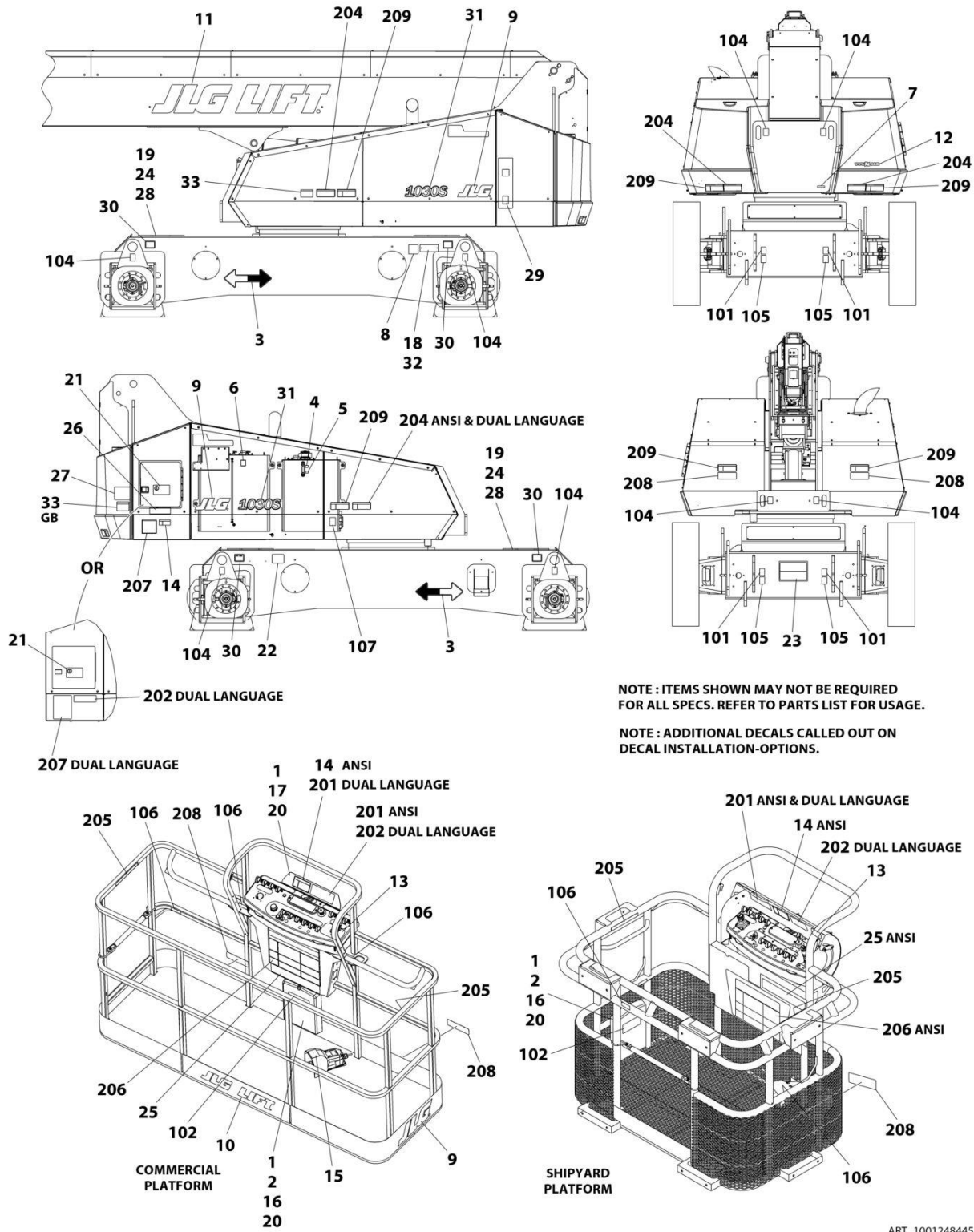
SECTION 9 - DECALS

FIGURE 9-2. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248439	Ref	DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1001203789	1	Decal - Drive/Steer Instruction	
14	1705492	2	Decal - Tip-Over Hazard	
15	3252347	1	Decal - Footswitch	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
22	1001131269	1	Decal - Patent	
23	1001150079	1	Decal - Lift Diagram	
25	1001254240	1	Decal - Warning Dual Cap	
26	1001254241	1	Decal - Warning Dual Cap	
27	1001203790	1	Decal - Daily Check List	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248542	1	Decal - Kit English	
201	1705337	1	Decal - Tip-Over	
204	1703953	1	Decal - Warning Crushing	
205	1702868	2	Decal - No Hands	
206	1703797	1	Decal - Warning/Danger	
207	1705336	1	Decal - Warning Inspection	
208	1703804	4	Decal - Warning Crushing	
209	1703805	5	Decal - Electrocutation	

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FIGURE 9-3. DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/CHINESE LANGUAGE)



ART_1001248445

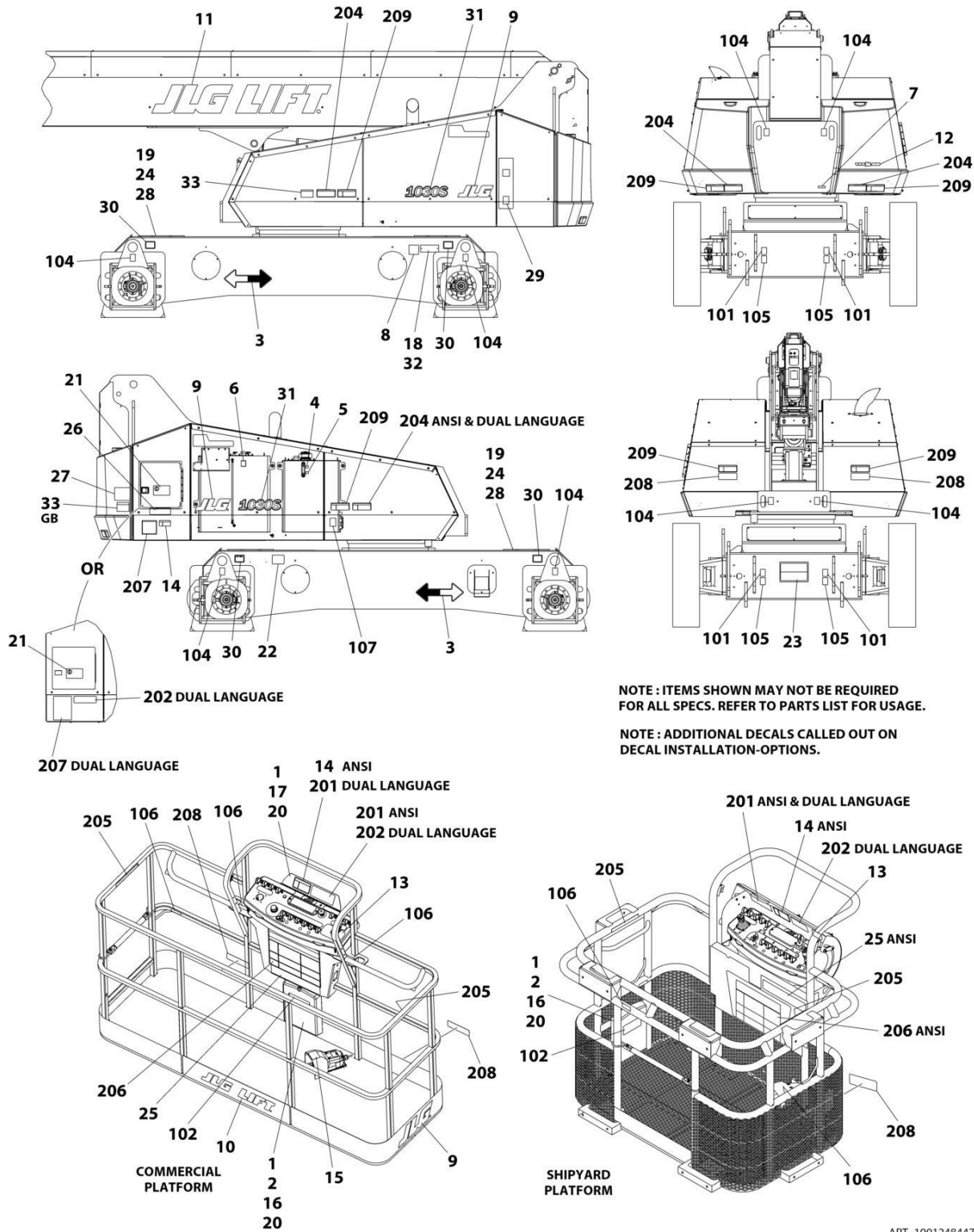
SECTION 9 - DECALS

FIGURE 9-3. DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/CHINESE LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248445	Ref	DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/CHINESE LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
10	1702774	1	Decal - JLG Lift 3 1/2in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1705430	1	Decal - Drive/Steer Instructions	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
23	1001150079	1	Decal - Lift Diagram	
24	1001153281	2	Plate, Arrow	
25	1001254244	1	Decal - Warning Dual Cap	
26	1001254247	1	Decal - Warning Dual Cap	
27	1001206772	1	Decal - Daily Check List	
33	1001244298	2	Decal - Wechat QR Code	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248544	1	Decal - Kit	
201	1001117034	1	Decal - Tip-Over	
202	1001117035	2	Decal - Warning Tip-Over	
204	1703943	7	Decal - Warning Crushing	
205	1001116846	2	Decal - Caution No Hands	
206	1703925	1	Decal - Warning/Danger	
207	1001116849	2	Decal - Warning Inspection	
208	1703949	4	Decal - Warning Crushing	
209	1001116851	6	Decal - Electrocution	
210	1703982	1	Decal - Footswitch	

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FIGURE 9-4. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/CHINESE LANGUAGE)



ART_1001248447

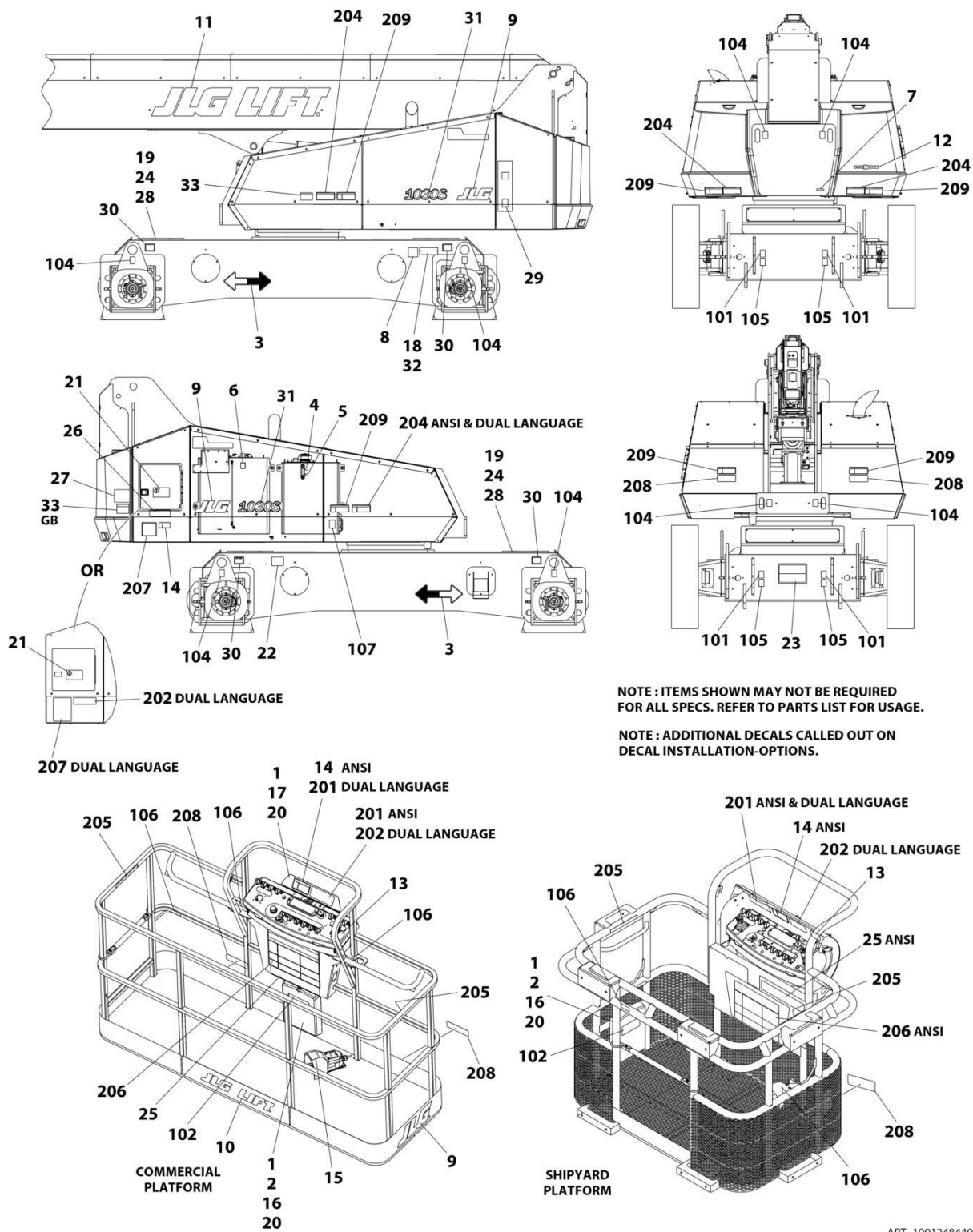
SECTION 9 - DECALS

FIGURE 9-4. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/CHINESE LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248447	Ref	DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/CHINESE LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1001203930	1	Decal - Drive/Steer Instructions	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
23	1001150079	1	Decal - Lift Diagram	
25	1001254244	1	Decal - Warning Dual Cap	
26	1001254247	1	Decal - Warning Dual Cap	
27	1001206772	1	Decal - Daily Check List	
33	1001244298	2	Decal - Wechat QR Code	
200	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248544	1	Decal - Kit	
201	1001117034	1	Decal - Tip-Over	
202	1001117035	2	Decal - Warning Tip-Over	
204	1703943	7	Decal - Warning Crushing	
205	1001116846	2	Decal - Caution No Hands	
206	1703925	1	Decal - Warning/Danger	
207	1001116849	2	Decal - Warning Inspection	
208	1703949	4	Decal - Warning Crushing	
209	1001116851	6	Decal - Electrocution	
210	1703982	1	Decal - Footswitch	

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FIGURE 9-5. DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/JAPANESE LANGUAGE)



ART_1001248449

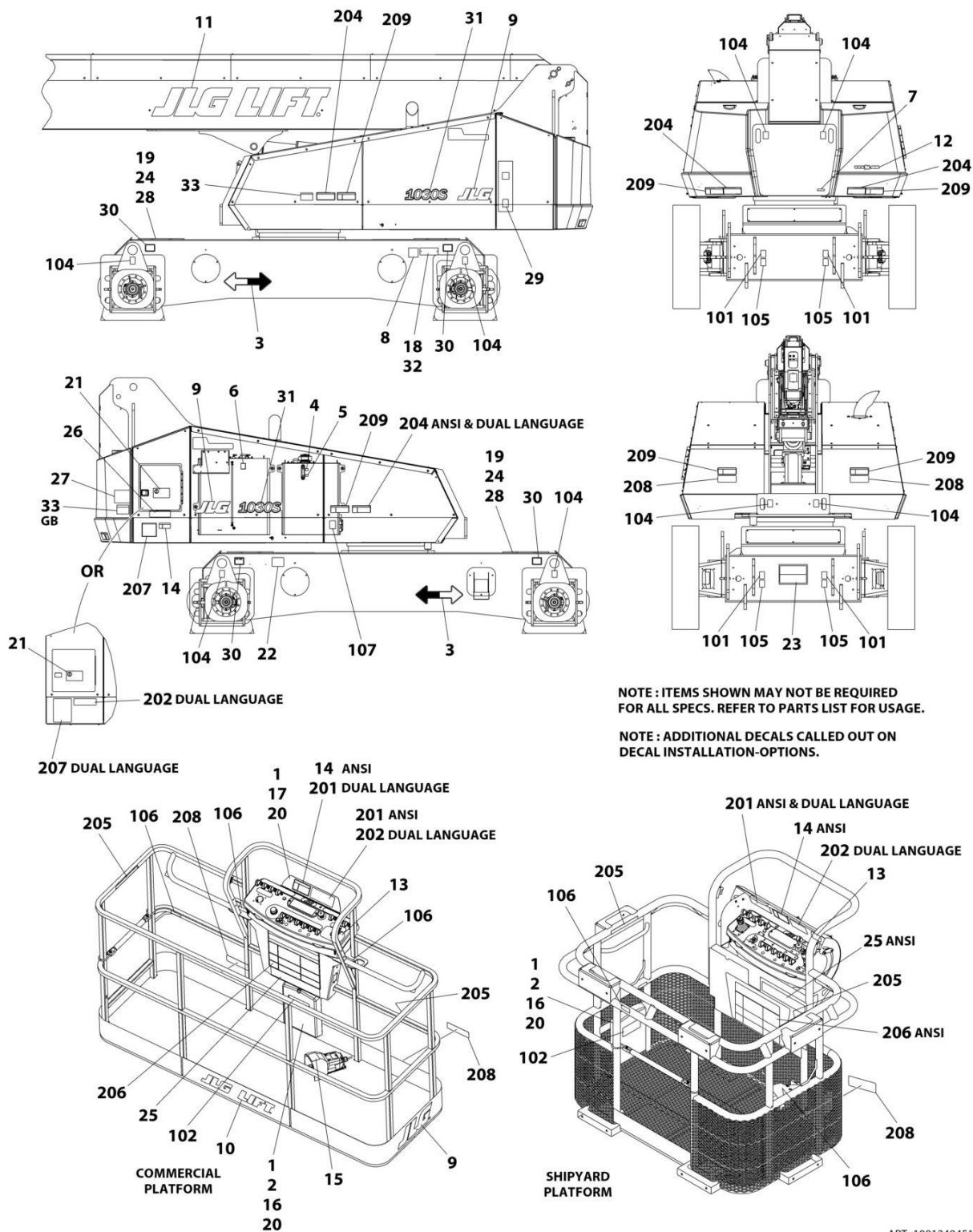
SECTION 9 - DECALS

FIGURE 9-5. DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/JAPANESE LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248449	Ref	DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/JAPANESE LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
10	1702774	1	Decal - JLG 3-1/2in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1705426	1	Decal - Drive/Steer Instructions	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
23	1001150079	1	Decal - Lift Diagram	
25	1001254263	1	Decal - Warning Dual Cap	
26	1001254264	1	Decal - Warning Dual Cap	
27	1001206773	1	Decal - Daily Check List	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248543	1	Decal, Kit	
201	1705338	1	Decal - Tip-Over	
202	1705493	2	Decal - Warning Tip-Over	
203	1703944	7	Decal - Warning Crushing	
206	1703926	1	Decal - Warning/Danger	
207	1705344	1	Decal - Warning Inspection	
208	1703950	5	Decal - Warning Crushing	
209	1703938	6	Decal - Electrocution	
210	1703980	1	Decal - Footswitch	

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FIGURE 9-6. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/JAPANESE LANGUAGE)



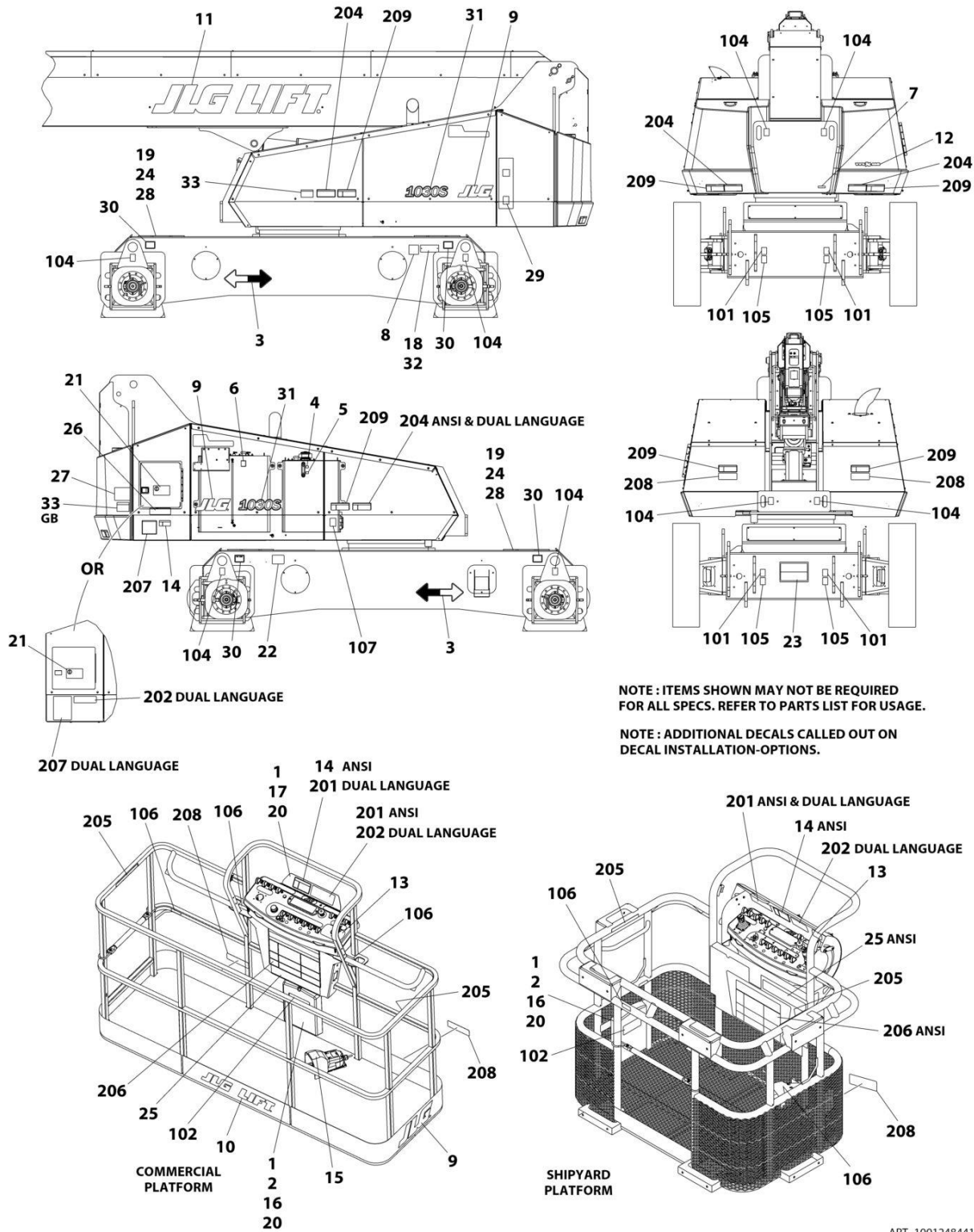
SECTION 9 - DECALS

FIGURE 9-6. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/JAPANESE LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248451	Ref	DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/JAPANESE LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	2	Decal - JLG 5in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1001203931	1	Decal - Drive/Steer Instructions	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
23	1001150079	1	Decal - Lift Diagram	
25	1001254263	1	Decal - Warning Dual Cap	
26	1001254264	1	Decal - Warning Dual Cap	
27	1001206773	1	Decal - Daily Check List	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
201	1705338	1	Decal - Tip-Over	
202	1705493	2	Decal - Warning Tip-Over	
204	1703944	7	Decal - Warning Crushing	
206	1703926	1	Decal - Warning/Danger	
207	1705344	2	Decal - Warning Inspection	
208	1703950	5	Decal - Warning Crushing	
209	1703938	6	Decal - Electrocution	
210	1703980	1	Decal - Footswitch	

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FIGURE 9-7. DECAL INSTALLATION - KOREAN SPECS (ENGLISH/KOREAN LANGUAGES)



ART_1001248441

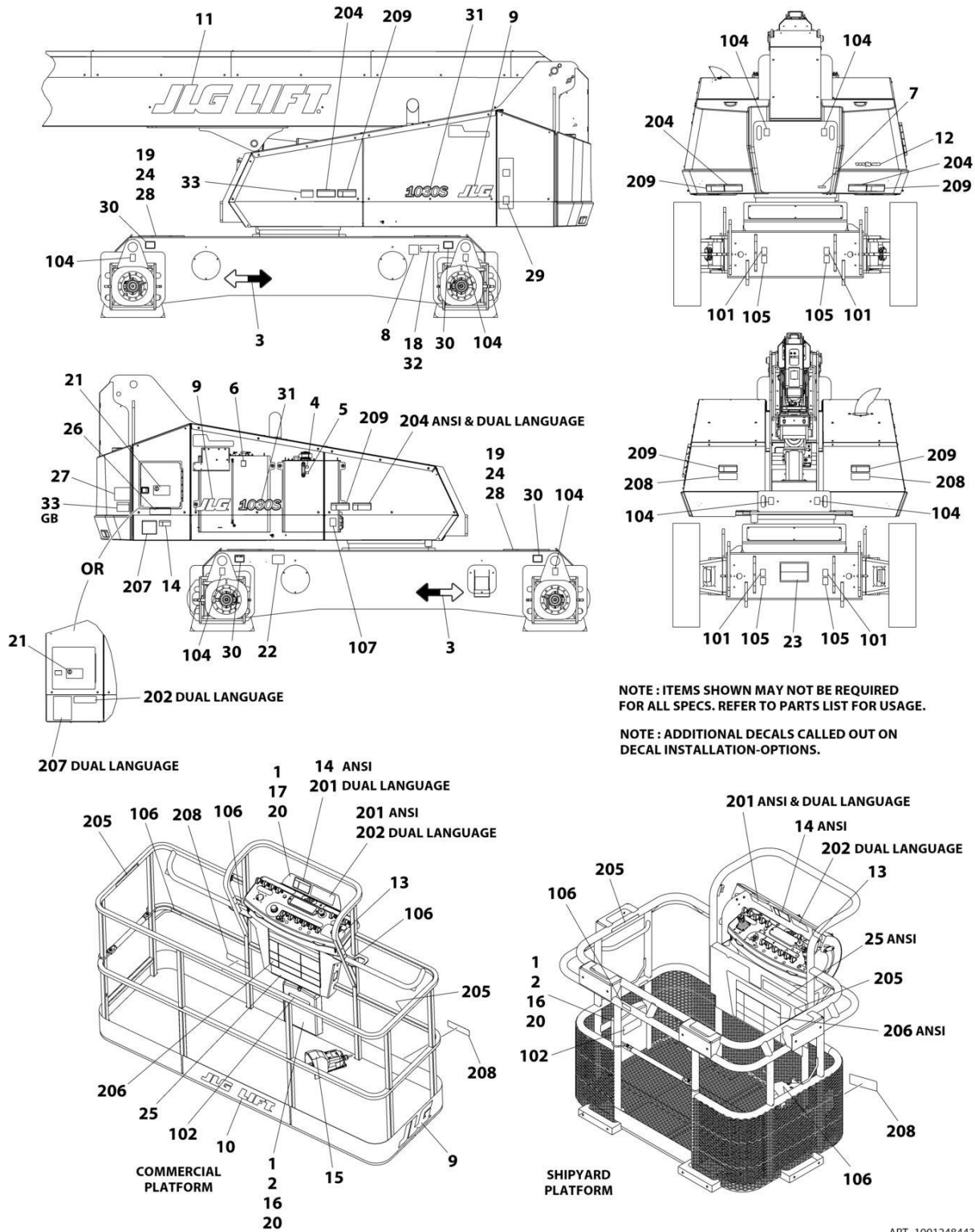
SECTION 9 - DECALS

FIGURE 9-7. DECAL INSTALLATION - KOREAN SPECS (ENGLISH/KOREAN LANGUAGES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248441	Ref	DECAL INSTALLATION - STANDARD PLATFORM (ENGLISH/KOREAN LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
10	1702774	1	Decal - JLG Lift 3 1/2in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1705427	1	Decal - Drive Steer	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
23	1001150079	1	Decal - Lift Diagram	
25	1001254242	1	Decal - Warning Dual Cap	
26	1001254243	1	Decal - Warning Dual Cap	
27	1001206771	1	Decal - BCS Daily Check	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	4	Decal - Lift	
105	1703814	4	Decal - Tie Down	
106	1704277	3	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248545	1	Decal - Kit	
201	1705339	1	Decal - Tip Over BCS	
202	1705503	2	Decal - Warning Tip Over	
204	1703945	7	Decal - Warning Crushing	
205	1705969	2	Decal - Caution No Hands	
206	1703927	1	Decal - Warning Danger	
207	1705345	1	Decal - Warning Inspection	
208	1703951	5	Decal - Warning Crushing	
209	1703939	6	Decal - Danger Electrocution	
210	1703981	1	Decal - Foot Switch	

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FIGURE 9-8. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/KOREAN LANGUAGE)



ART_1001248443

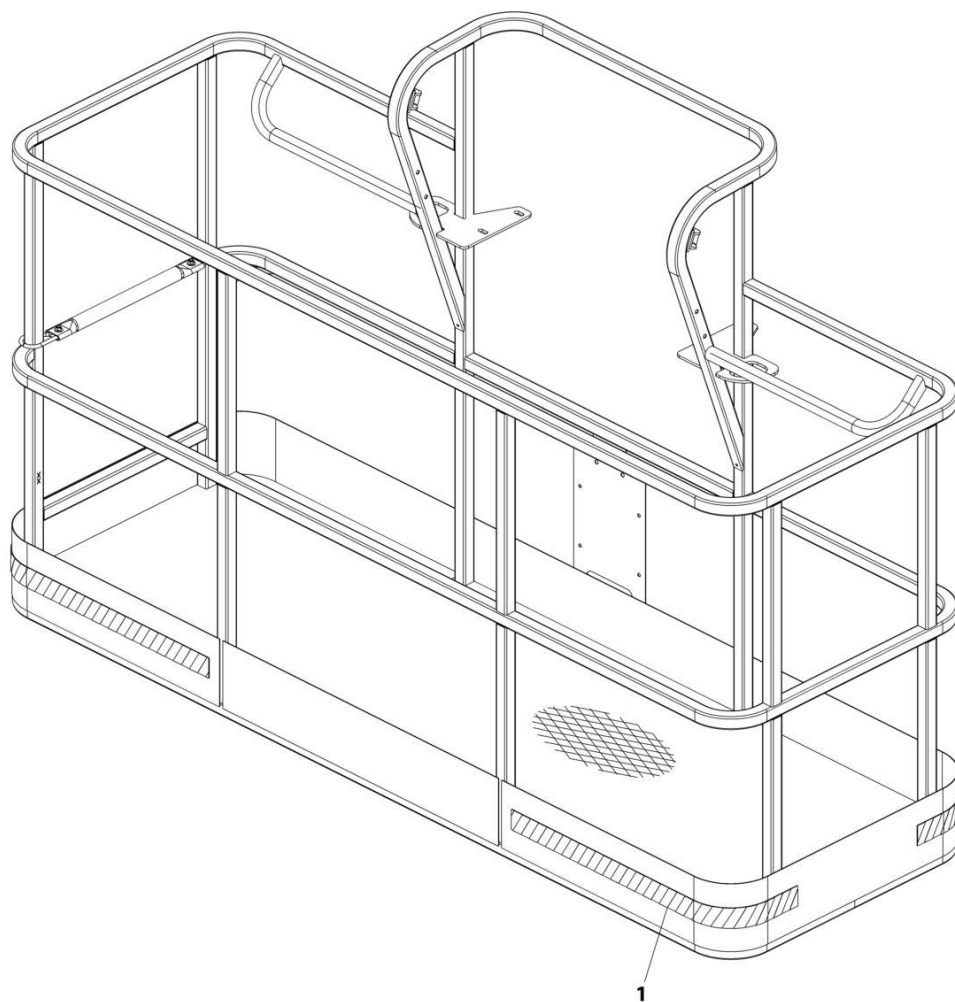
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FIGURE 9-8. DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/KOREAN LANGUAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248443	Ref	DECAL INSTALLATION - SHIPYARD PLATFORM (ENGLISH/KOREAN LANGUAGE)	C
	1001248558	Ref	DECAL REFERENCE CHART	C
1	0641406	4	Bolt 1/4 x 3/4	
2	0860520	1	Box, Manual Storage	
3	1701501	4	Decal - Arrow	
4	1701502	1	Decal - Hydraulic Oil Level (High)	
5	1701503	1	Decal - Hydraulic Oil Level (Low)	
6	1701505	2	Decal - Fuel	
7	1702590	1	Decal - 220V/50Hz	
8	See Note	NSS	Decal - Bar Code (Note: Not Available for Purchase)	
9	1702773	3	Decal - JLG 5in	
11	1702862	2	Decal - JLG Lift 12in	
12	1704885	1	Decal - www.jlg.com	
13	1001203929	1	Decal - Drive/Steer Instructions	
16	3311405	4	Nut 1/4	
18	3820001	2	Rivet	
20	4751400	4	Washer 1/4	
21	1001117307	1	Decal - Emergency Stop	
23	1001150079	1	Decal - Lift Diagram	
25	1001254242	1	Decal - Warning Dual Cap	
26	1001254243	1	Decal - Warning Dual Cap	
27	1001206771	1	Decal - Daily Check List	
100	1001248539	1	Decal - Kit Master	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Lanyard Attach	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248545	1	Decal - Kit	
201	1705339	1	Decal - Tip-Over	
202	1705503	2	Decal - Warning Tip-Over	
204	1703945	7	Decal - Warning Crushing	
205	1705969	2	Decal - Caution No Hand	
206	1703927	1	Decal - Warning/Danger	
207	1705345	1	Decal - Warning Inspection	
208	1703951	5	Decal - Warning Crushing	
209	1703939	6	Decal - Danger Electrocution	
210	1703981	1	Decal - Footswitch	

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FIGURE 9-9. INSTALLATION WARNING STRIPE (COMMERCIAL MACHINES)



ART_1001255085

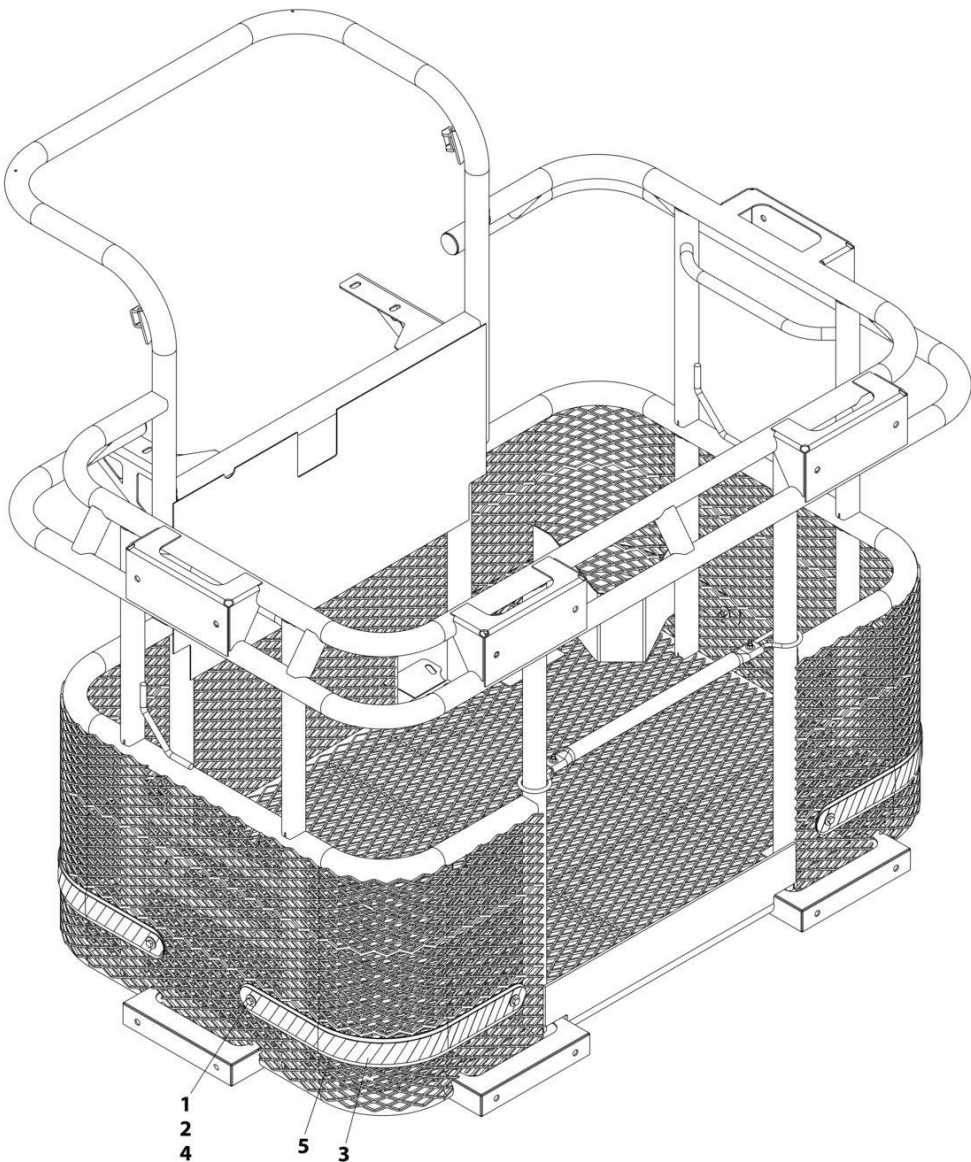
SECTION 9 - DECALS

FIGURE 9-9. INSTALLATION WARNING STRIPE (COMMERCIAL MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001255085 4420051	Ref 168 in	INSTALLATION WARNING STRIPE (COMMERCIAL MACHINES) Tape	A

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FIGURE 9-10. INSTALLATION WARNING STRIPE (SHIPYARD MACHINES)



ART_1001255086

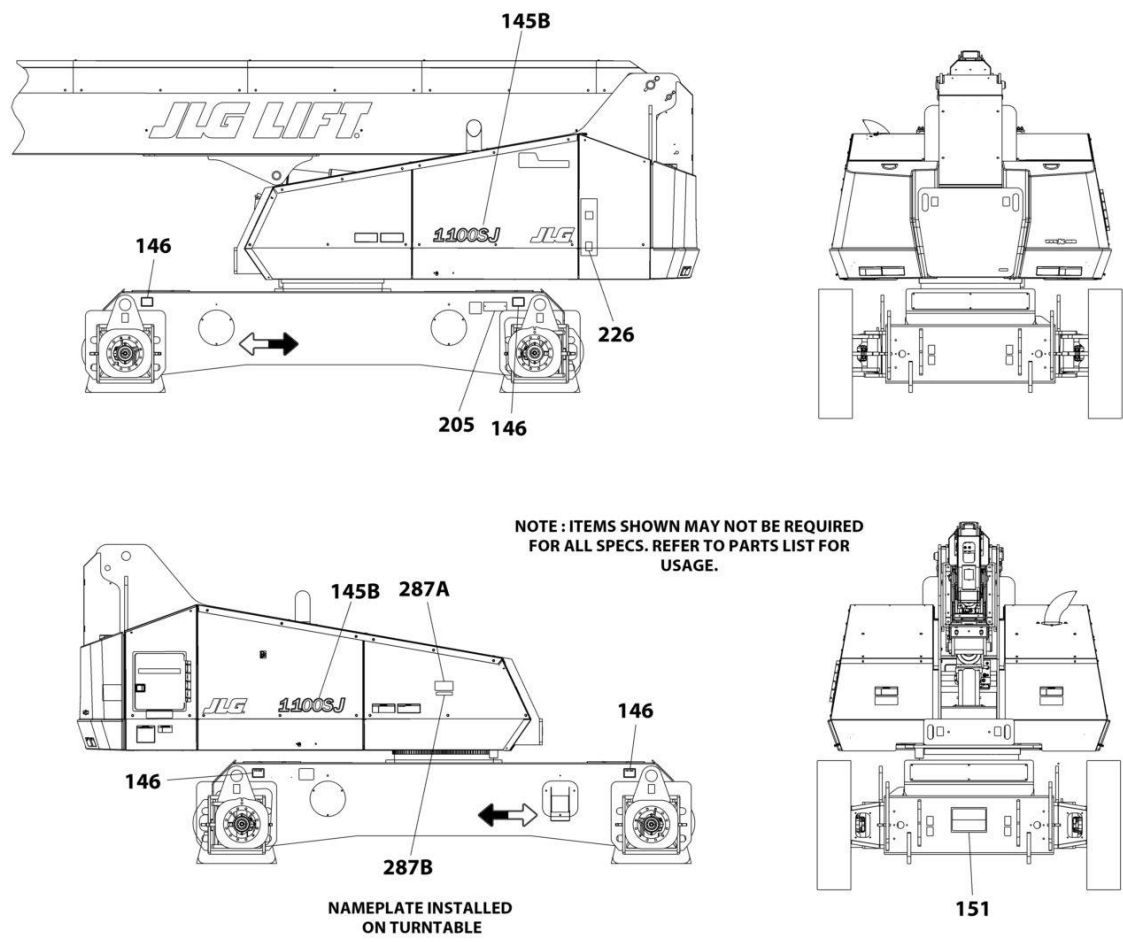
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FIGURE 9-10. INSTALLATION WARNING STRIPE (SHIPYARD MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001255086	Ref	INSTALLATION WARNING STRIPE (SHIPYARD MACHINES)	A
1	0760810	8	Bolt M8 x 20	
2	3290806	8	Nut M8 x 1-1/4	
3	4420051	188 in	Tape	
4	4811902	16	Washer M8	
5	1001255084	4	Panel, Decal Mount	

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FIGURE 9-11. DECALS INSTALLATION - OPTIONS



ART_DECAL_OPTIONS

SECTION 9 - DECALS

FIGURE 9-11. DECALS INSTALLATION - OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECAL INSTALLATIONS - OPTIONS	
145B	1001272098	2	Decal - 1100SJ	
146	1001150074	4	Decal - Max Tire Load	
151	1001150079	1	Decal - Lift Diagram	
205	See Note	1	Decal - Nameplate (Note: Not Available for Purchase)	
226	1704972	1	Decal - Warning Eplosion/Fire (English Language)	
226	1706060	1	Decal - Warning Eplosion/Fire (English/Chinese Language)	
226	1706062	1	Decal - Warning Eplosion/Fire (English/Japanese Language)	
226	1706061	1	Decal - Warning Eplosion/Fire (English/Korean Language)	
287	1001236438	Ref	ECO Label Installation	
287A	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
287A	3820001	4	Pop Rivet	
287B	See Note	NSS	Plate – Mein Code (Note: Not Available for Purchase)	
287B	3820001	4	Pop Rivet	

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 10-1. 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.	
	70006095	1	Breaker, Circuit 30Amp (7500W 60Hz Generator)	
	4360070	1	Circuit Breaker 15Amp (7500W 60Hz Generator)	
	70002386	1	Coil (Traction Valve, Main Valve, & Jib & Platform Rotate Valve)	
	70006950	1	Coil (Axle Extend/Steer Assembly & Steer Valve)	
	70004460	1	Coil (Axle Extend/Steer Assembly)	
	70002971	1	Coil (Main Valve)	
	70003788	1	Coil (Main Valve)	
	70027006	1	Coil (Main Valve)	
	70003789	1	Coil (Main Valve)	
	70006004	1	Coil (Boom Installation & Telescope Valve)	
	7026029	1	Contact, Rotary Circuit (Rotary Coupling & Collector Ring)	
	1001166538	1	Controller, Drive/Steer	
	1001166539	1	Controller, Lift/Swing	
	70005707	12	Element, Filter Hydraulic (Tanks)	
	70002231	12	Element, Pressure Filter (Valve Installation - Turntable)	
		Ref	Engine - TD2011	
	7003655	12	Element, Air Filter	
	70004066	12	Element, Filter (With Optional Fuel Water Separator)	
	7016328	12	Filter, Fuel	
	7016331	12	Filter, Oil	
	1600443	1	Module, EMR2 (ECM) (Note: Not available to order. Please Contact the JLG Parts Contact Center)	
	3740067	1	Relay	
	7026608	1	Relay, Start	
		Ref	Engine - TD2.9L4	
	1001117308	1	Contact	
	70024190	12	Element, Air Filter (Primary)	
	70024191	12	Element, Air Filter (Secondary)	
	1001222817	1	Filter, Fuel	
	1001225430	12	Filter, Fuel Primary	
	1001225431	12	Filter, Fuel Secondary	
	7016331	12	Filter, Oil	
	70025210	1	Module, (ECM) (Note: Not available to order. Please Contact the JLG Parts Contact Center)	
	1001138228	1	Relay	
	70005648	1	Relay	
	8229242	2	Fuse, 5A	
	80983191	2	Fuse, 10A	
	2860030	1	Key, Replacement	
	1001142683	1	Module, Beacon (Blue Beacon)	
	1001227960	1	Module (B.L.A.M.)	
	1001112758	1	Module, Control Frame (Valves Installation - Frame)	
	1001151274	1	Module (Ground Control)	
	1600343	1	Module, Platform Control	

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001261326	1	Module, Platform Control	
	3740067	1	Relay (Battery Tray)	
	1001186431	1	Relay (SkyGuard Sensor Harness)	
	3740086	1	Relay (SkyLine Harness)	
	1001147479	1	Sensor, Angle (Boom Sensor Installation)	
	1001118971	1	Sensor, Angle (Boom Sensor Installation with Vertical/Horizontal Controls)	
	4360505	1	Sensor, Angle Rotary (Steer Installation)	
	4360552	1	Switch, Boom Length (Boom Sensor Installation)	
	1001228225	1	Sensor, Emitter (SkyEye)	
	4360436	1	Sensor, Fuel Level (Tanks)	
	4360578	1	Sensor, Limit (Axle Installation)	
	1001247468	1	Sensor, LoadCell (Platform Support)	
	1001199043	1	Sensor, Pressure Transducer (Boom Installation & Telescope Valve)	
	7026031	1	Sensor, Proximity (Rotary Coupling & Collector Ring)	
	1001196517	1	Sensor, Proximity (Boom Sensor Installation)	
	1001232667	1	Sensor, Proximity (SkyLine)	
	1001204043	1	Sensor, Proximity (Boom Sensor Installation)	
	4360477	1	Sensor, Proximity (Overhead Protection)	
	1001228224	1	Sensor, Receiver (SkyEye)	
	1001137673	1	Switch, SkyGuard	
	1001151525	1	Sensor, Temperature (Valve Installation - Turntable)	
	4360475	1	Switch, Emergency Stop	
	0272970	1	Switch, Foot	
	4360469	1	Switch, Key	
	4360274	1	Switch, Pushbutton Gray (Ground Control)	
	4360387	1	Switch, Pushbutton Yellow (Console Box, SkyGuard & Overhead Protection)	
	1001161709	1	Switch, Toggle (Steer Installation 4WS & Console Box)	
	4360328	1	Switch, Toggle (Ground Control Box & Jib Switch)	
	1001155045	1	Switch, Toggle (Console Box)	
	1001159256	1	Switch, Toggle (Console Box)	
	1001161710	1	Switch, Toggle (Console Box)	
	4360336	1	Switch, Toggle (Generator Options)	

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SECTION 11 - SPECIAL OPTIONS

FIGURE 11-1. SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		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.	
	1001216793	Ref	Air Cleaner Pre-Cleaner	
	1001150058	Ref	Airline Installation	
	1001153446	Ref	Analyzer Installation	
	1001150052	Ref	Bellows Installation - Boom	
	1001150054	Ref	Bellows Installation - Chassis	
	1001150094	Ref	Boom Rest Block Installation	
	1001195494	Ref	Boom Wipers Installation	
	1001242653	Ref	ClearSky Decal Installation	
	1001246542	Ref	ClearSky E-Boom	
	1001242624	Ref	ClearSky Installation Canbus (ANSI Spec)	
	1001242625	Ref	ClearSky Installation Canbus (CE)	
	1001246526	Ref	ClearSky Installation Canbus (Australian Spec)	
	1001246527	Ref	ClearSky Installation Canbus (Chinese Spec)	
	1001242626	Ref	ClearSky Installation 3-Wire (ANSI Spec)	
	1001242627	Ref	ClearSky Installation 3-Wire (CE Spec)	
		Ref	Decal Kits	
	2902303	Ref	Decal Kit - Master	
	2902307	Ref	Decal Kit - Country Spec (ANSI Spec)	
	2902309	Ref	Decal Kit - Country Spec (Chinese Spec)	
	2902308	Ref	Decal Kit - Country Spec (Japanese Spec)	
	2902310	Ref	Decal Kit - Country Spec (Korean Spec)	
		Ref	Electrical Connector Kits	
	1001148902	Ref	Amp/Tyco Electrical Connector Kit	
	1001148903	Ref	Deutsch DT Electrical Connector Kit	
	1001148904	Ref	Deutsch HD Electrical Connector Kit	
	1001148905	Ref	Packard Electrical Connector Kit	
	1001148906	Ref	Various Electrical Connectors Kit	
	1001253945	Ref	Enhanced Detection System (Level 1)	
	1001253946	Ref	Enhanced Detection System (Level 2)	
	1001148971	Ref	Lanyard (Bolt-on) Installation Kit	
		Ref	Light Options:	
	1001201539	Ref	Chassis Illuminations Lights Installation	
	1001152640	Ref	Platform Beacon Light Installation	
	1001120467	Ref	Platform Floodlights Installation	
	1001150064	Ref	Oil Cooler Installation (Deutz TD2011 Engines)	
	1001218402	Ref	Oil Cooler Installation (Deutz TD2.9L4 Engines)	
	1001150095	Ref	Platform Bumpers Installation	
	1001266290	Ref	Platform Console Cover Installation	
	1001266807	Ref	Platform Mesh to Top Rail Add-on Kit - 30INx48IN Platform (Dealer Installed)	
	1001252033	Ref	SkySense Add-on Kit (Level 1) (Dealer Installed)	
	1001252034	Ref	SkySense Add-on Kit (Level 2) (Dealer Installed)	
	1001250465	Ref	SkySense Installation (Level 1) (Factory Installed)	
	1001250466	Ref	SkySense Installation (Level 2) (Factory Installed)	
	1001206605	Ref	Soft-Touch (Overhead) Installation - With LSS (Chinese & Korean Specs)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Tools for Service:	
	2901443	Ref	Analyzer Kit	
	7002821	Ref	Crimper, Wire	
	7002823	Ref	Pin Extractor - Universal (For Electrical Connectors with Pins and Sockets)	
	4460467	Ref	Extractor - 16-18 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	4460510	Ref	Extractor - 12-14 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	70004646	Ref	Puller (Hub Assembly)	
	70004648	Ref	Puller (Hub Assembly)	
	7016654	Ref	Screwdriver, Magnetic	
	7002822	Ref	Screwdriver, Potentiometer	
	7004275	Ref	Seal Tool 1 (For Cylinders)	
	7004276	Ref	Seal Tool 1 1/2 (For Cylinders)	
	70004647	Ref	Seal Tool (Hub Assembly)	
	1001137005	Ref	Software Cable Kit	
	7002828	Ref	Stripper, Wire	
	4921850	Ref	Throttle Service Harness	
	70004185	Ref	Torque Multiplier	
	1001279126	Ref	UGM2 Retrofit Kit	
	7016655	Ref	Wire Rope Sheave Gauge	
	2910894	Ref	Wire Rope Kit	
	1001247280	Ref	White Noise Motion Alarm (Ambient)	

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