Illustrated Parts Manual

Model 1250AJP

PVC
2401

P/N
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June 3, 2024 - Rev B

ANSI

CE

UK CA

AS/NZS

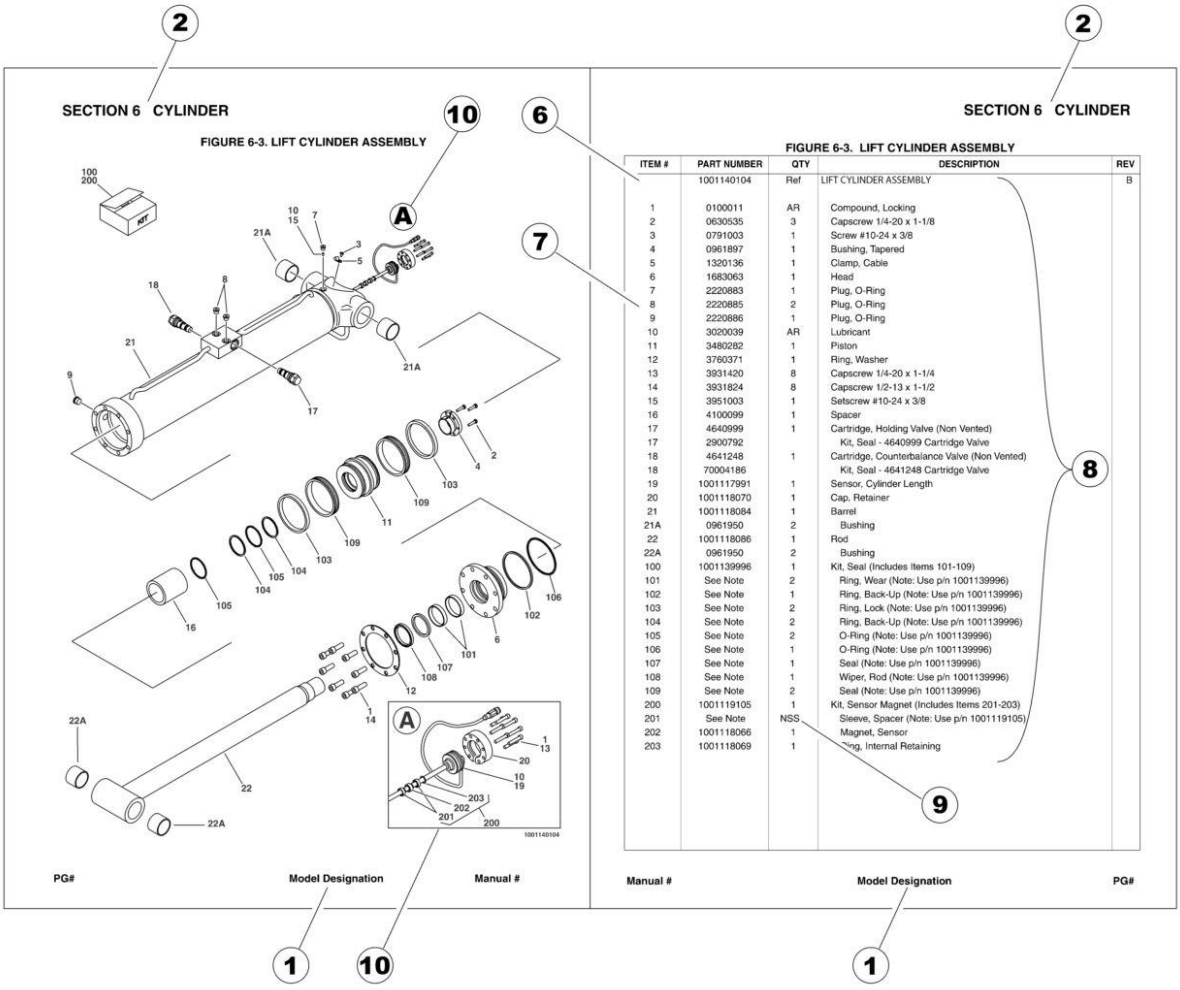
An Oshkosh Corporation Company

REVISION LOG

January 1, 2024 - A - Original Issue of Manual (Edited to B/M 1001261250 Revision X)

June 3, 2024 - B - Revised Manual (Edited to B/M 1001261250 Revision X)

GENERAL INFORMATION



ITEM #	PART NUMBER	QTY	DESCRIPTION	REV
	1001140104	Ref	LIFT CYLINDER ASSEMBLY	B
1	0100011	AR	Compound, Locking	
2	0630535	3	Capscrew 1/4-20 x 1-1/8	
3	0791003	1	Screw #10-24 x 3/8	
4	0961897	1	Bushing, Tapered	
5	1320136	1	Clamp, Cable	
6	1683063	1	Head	
7	2220883	1	Plug, O-Ring	
8	2220885	2	Plug, O-Ring	
9	2220886	1	Plug, O-Ring	
10	3020039	AR	Lubricant	
11	3480282	1	Piston	
12	3760371	1	Ring, Washer	
13	3931420	8	Capscrew 1/4-20 x 1-1/4	
14	3931824	8	Capscrew 1/2-13 x 1-1/2	
15	3951003	1	Setscrew #10-24 x 3/8	
16	4100099	1	Spacer	
17	4640999	1	Cartridge, Holding Valve (Non Vented)	
17	2900792		Kit, Seal - 4640999 Cartridge Valve	
18	4641248	1	Cartridge, Counterbalance Valve (Non Vented)	
18	70004186		Kit, Seal - 4641248 Cartridge Valve	
19	1001117991	1	Sensor, Cylinder Length	
20	1001118070	1	Cap, Retainer	
21	1001118084	1	Barrel	
21A	0961950	2	Bushing	
22	1001118086	1	Rod	
22A	0961950	2	Bushing	
100	1001139996	1	Kit, Seal (Includes Items 101-109)	
101	See Note	2	Ring, Wear (Note: Use p/n 1001139996)	
102	See Note	1	Ring, Back-Up (Note: Use p/n 1001139996)	
103	See Note	2	Ring, Lock (Note: Use p/n 1001139996)	
104	See Note	2	Ring, Back-Up (Note: Use p/n 1001139996)	
105	See Note	2	O-Ring (Note: Use p/n 1001139996)	
106	See Note	1	O-Ring (Note: Use p/n 1001139996)	
107	See Note	1	Seal (Note: Use p/n 1001139996)	
108	See Note	1	Wiper, Rod (Note: Use p/n 1001139996)	
109	See Note	2	Seal (Note: Use p/n 1001139996)	
200	1001119105	1	Kit, Sensor Magnet (Includes Items 201-203)	
201	See Note	NSS	Sleeve, Spacer (Note: Use p/n 1001119105)	
202	1001118066	1	Magnet, Sensor	
203	1001118069	1	Ring, Internal Retaining	

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 Fliud
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).....Milimeter
mA.....Miliamps
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 REFERANCE 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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SECTION 1 - FRAME

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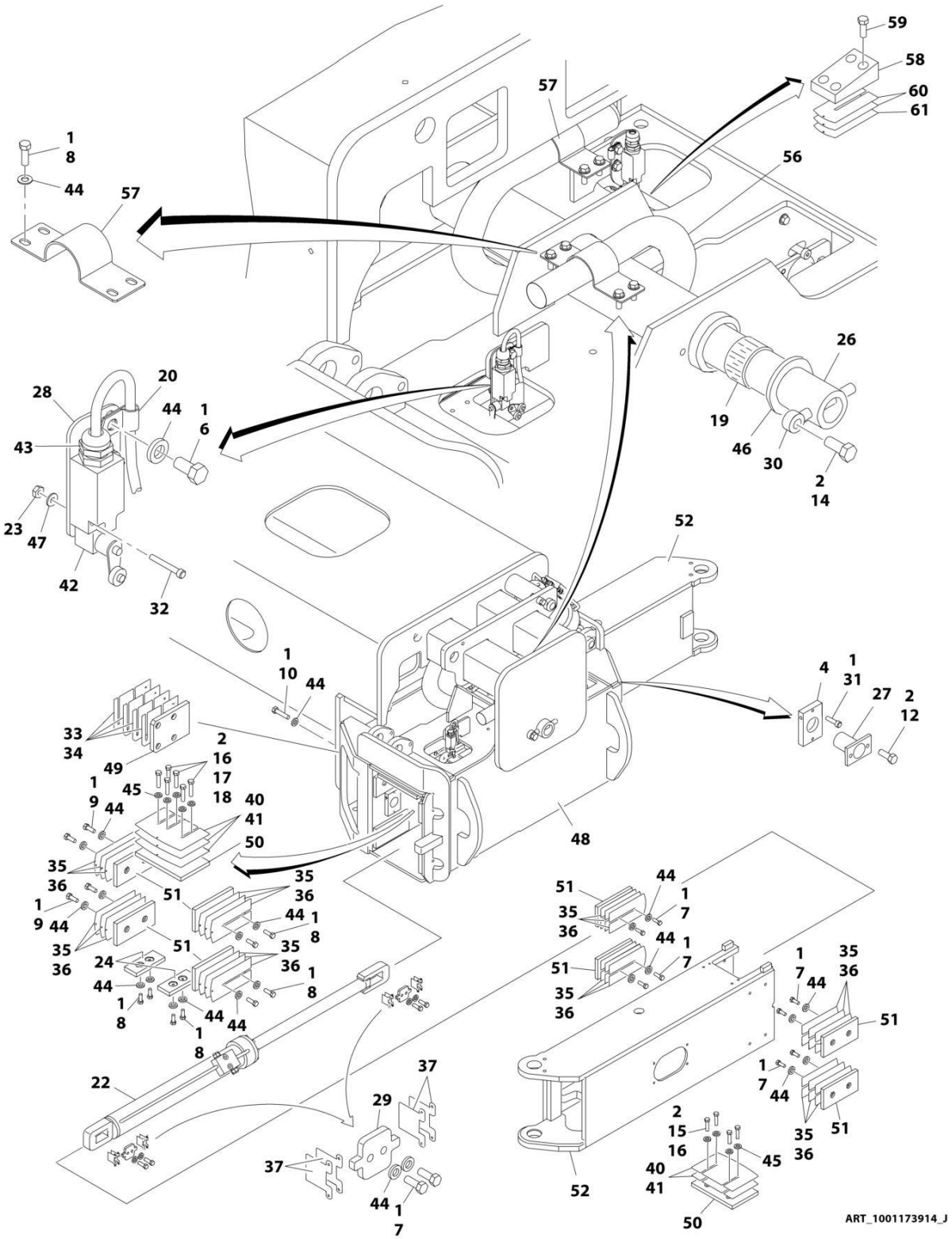

FIGURE 1-1. AXLE INSTALLATION - FIXED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173914	Ref	AXLE INSTALLATION - FIXED	J
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
4	0363037	4	Bar, Stop	
6	0641606	8	Bolt 3/8 x 3/4	
7	0641608	48	Bolt 3/8 x 1	
8	0641609	64	Bolt 3/8 x 1-1/8	
9	0641611	16	Bolt 3/8 x 1-3/8	
10	0641613	8	Bolt 3/8 x 1-5/8	
12	0641808	8	Bolt 1/2 x 1	
14	0642214	1	Bolt 3/4 x 1-3/4	
15	0681813	12	Bolt 1/2 x 1-5/8 Grade 8	
16	0681814	18	Bolt 1/2 x 1-3/4 Grade 8	
17	0681815	12	Bolt 1/2 x 1-7/8 Grade 8	
18	0681816	6	Bolt 1/2 x 2 Grade 8	
19	0962033	2	Bushing	
20	1320263	4	Clamp, Cable	
22	1001251020	4	Axle Extension Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
23	3310805	8	Nut #8	
24	3340881	8	Pad, Wear	
26	3422918	1	Pin	
27	3422960	4	Pin	
28	3573294	4	Plate	
29	3573335	8	Plate	
30	3841287	1	Keeper, Pin	
31	3900270	4	Bolt 1/2 x 1-1/2	
32	3930820	8	Capscrew #8 x 1-1/4	
33	4071035	2	Shim #18 Gauge	
34	4071036	4	Shim #11 Gauge	
35	4071039	10	Shim #18 Gauge	
36	4071040	36	Shim #11 Gauge	
37	4071042	24	Shim #16 Gauge	
40	4071054	8	Shim #18 Gauge	
41	4071055	12	Shim #11 Gauge	
42	4360578	4	Switch, Limit	
43	4460968	4	Connector, Strain Relief	
44	4711600	144	Washer 3/8	
45	4711800	48	Washer 1/2	
46	4740461	1	Thrustwasher	
47	4750800	8	Washer #8	
48	4846383	1	Box, Axle Pivot	
49	1001161401	2	Pad, Axle	
50	1001161402	8	Pad, Wear	
51	1001161403	32	Pad, Wear	
52	4846637	4	Extension, Axle	
55	4240155	6	Strap (Not Shown)	
56	1001193674	4	Sleeve, Nylon	
57	1001191541	8	Bracket, Hose Mount	
58	0363076	2	Bar	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
59	0641814	4	Bolt 1/2 x 1-3/4	
60	4071049	4	Shim #11 Gauge	
61	4071050	2	Shim #16 Gauge	
62	2220235	1	Plug (Not Shown - Located on Junction Manifold)	

FIGURE 1-2. AXLE INSTALLATION - OSCILLATING

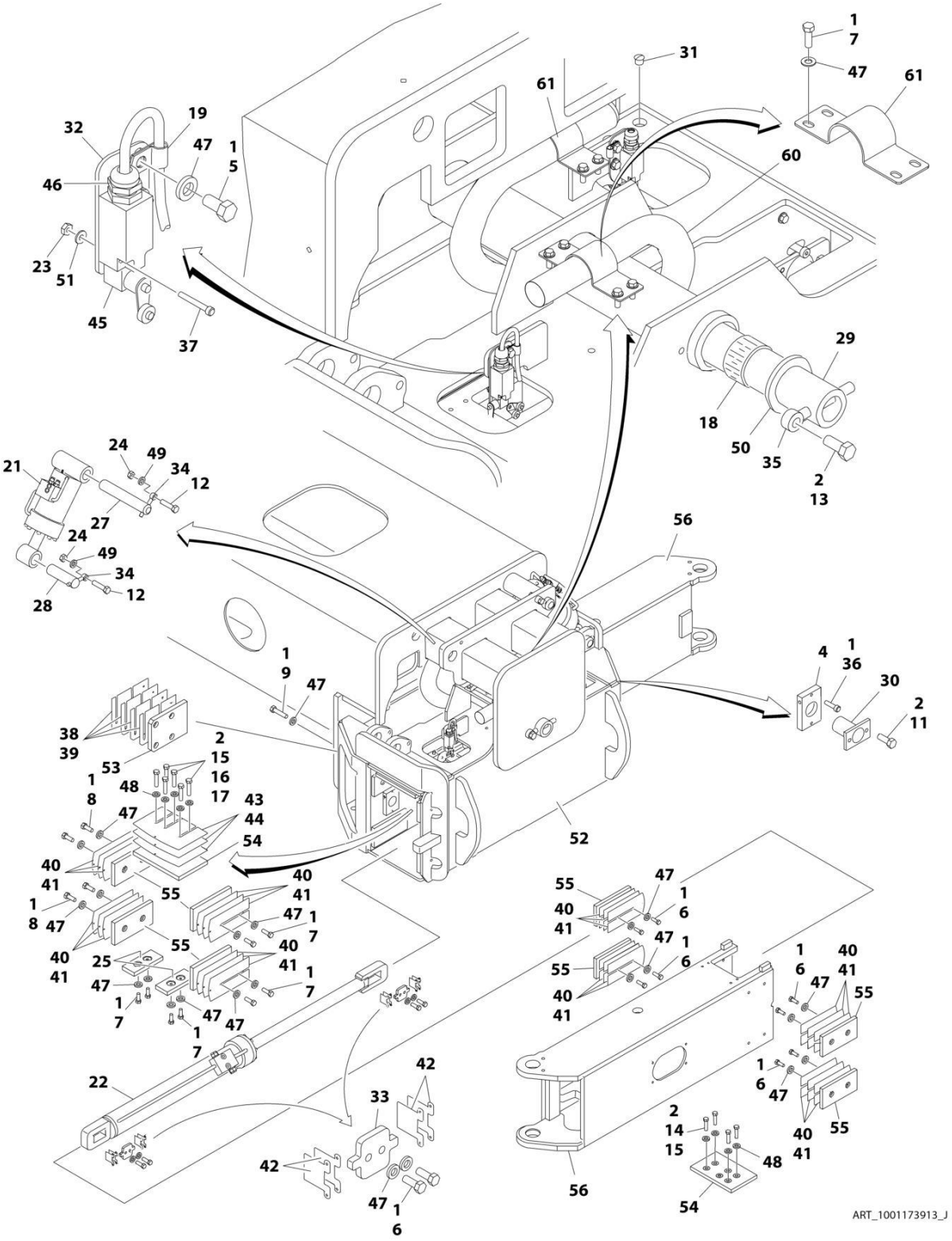

FIGURE 1-2. AXLE INSTALLATION - OSCILLATING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173913	Ref	AXLE INSTALLATION - OSCILLATING	J
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
4	0363037	4	Bar, Stop	
5	0641606	8	Bolt 3/8 x 3/4	
6	0641608	48	Bolt 3/8 x 1	
7	0641609	64	Bolt 3/6 x 1-1/8	
8	0641611	16	Bolt 3/8 x 1-3/8	
9	0641613	8	Bolt 3/8 x 1-5/8	
11	0641808	8	Bolt 1/2 x 1	
12	0642020	4	Bolt 5/8 x 2-1/2	
13	0642214	1	Bolt 3/4 x 1-3/4	
14	0681813	12	Bolt 1/2 x 1-5/8 Grade 8	
15	0681814	18	Bolt 1/2 x 1-3/4 Grade 8	
16	0681815	12	Bolt 1/2 x 1-7/8 Grade 8	
17	0681816	6	Bolt 1/2 x 2 Grade 8	
18	0962033	2	Bushing	
19	1320263	4	Clamp, Cable	
21	1001251019	2	Oscillating Axle Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
22	1001251020	4	Axle Extension Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
23	3310805	8	Nut #8	
24	3312005	4	Nut 5/8	
25	3340881	8	Pad, Wear	
27	3422833	2	Pin	
28	3422915	2	Pin	
29	3422918	1	Pin	
30	3422960	4	Pin	
31	3520054	4	Plug	
32	3573294	4	Plate	
33	3573335	8	Plate	
34	3841258	4	Keeper, Pin	
35	3841287	1	Keeper, Pin	
36	3900270	4	Bolt 1/2 x 1-1/2	
37	3930820	8	Capscrew #8 x 1-1/4	
38	4071035	2	Shim #18 Gauge	
39	4071036	4	Shim #11 Gauge	
40	4071039	10	Shim #18 Gauge	
41	4071040	36	Shim #11 Gauge	
42	4071042	24	Shim #16 Gauge	
43	4071054	8	Shim #18 Gauge	
44	4071055	12	Shim #11 Gauge	
45	4360578	4	Switch, Limit	
46	4460968	4	Connector, Strain Relief	
47	4711600	144	Washer 3/8	
48	4711800	48	Washer 1/2	
49	4712000	4	Washer 5/8	
50	4740461	1	Thrustwasher	
51	4750800	8	Washer #8	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
52	4846383	1	Box, Axle Pivot	
53	1001161401	2	Pad, Axle	
54	1001161402	8	Pad, Wear	
55	1001161403	32	Pad, Wear	
56	4846637	4	Extension, Axle	
59	4240155	6	Strap (Not Shown)	
60	1001193674	4	Sleeve, Nylon	
61	1001191541	8	Bracket, Hose Mount	

FIGURE 1-3. AXLE STOP BLOCKS INSTALLATION

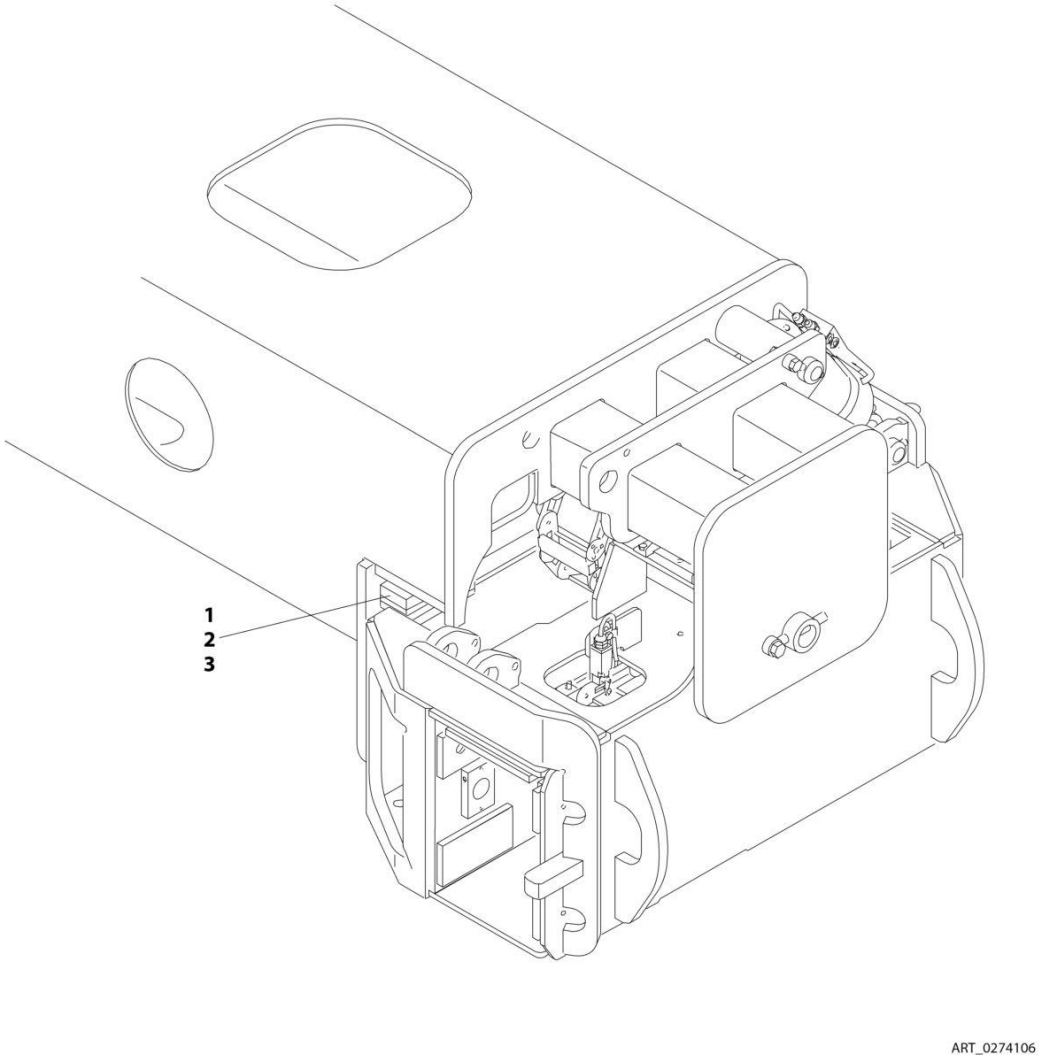

FIGURE 1-3. AXLE STOP BLOCKS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274106	Ref	AXLE STOP BLOCKS INSTALLATION	A
1	0100019	AR	Compound, Locking	
2	3931816	4	Capscrew 1/2 x 1	
3	4220235	2	Block, Stop	

FIGURE 1-4. STEER INSTALLATION

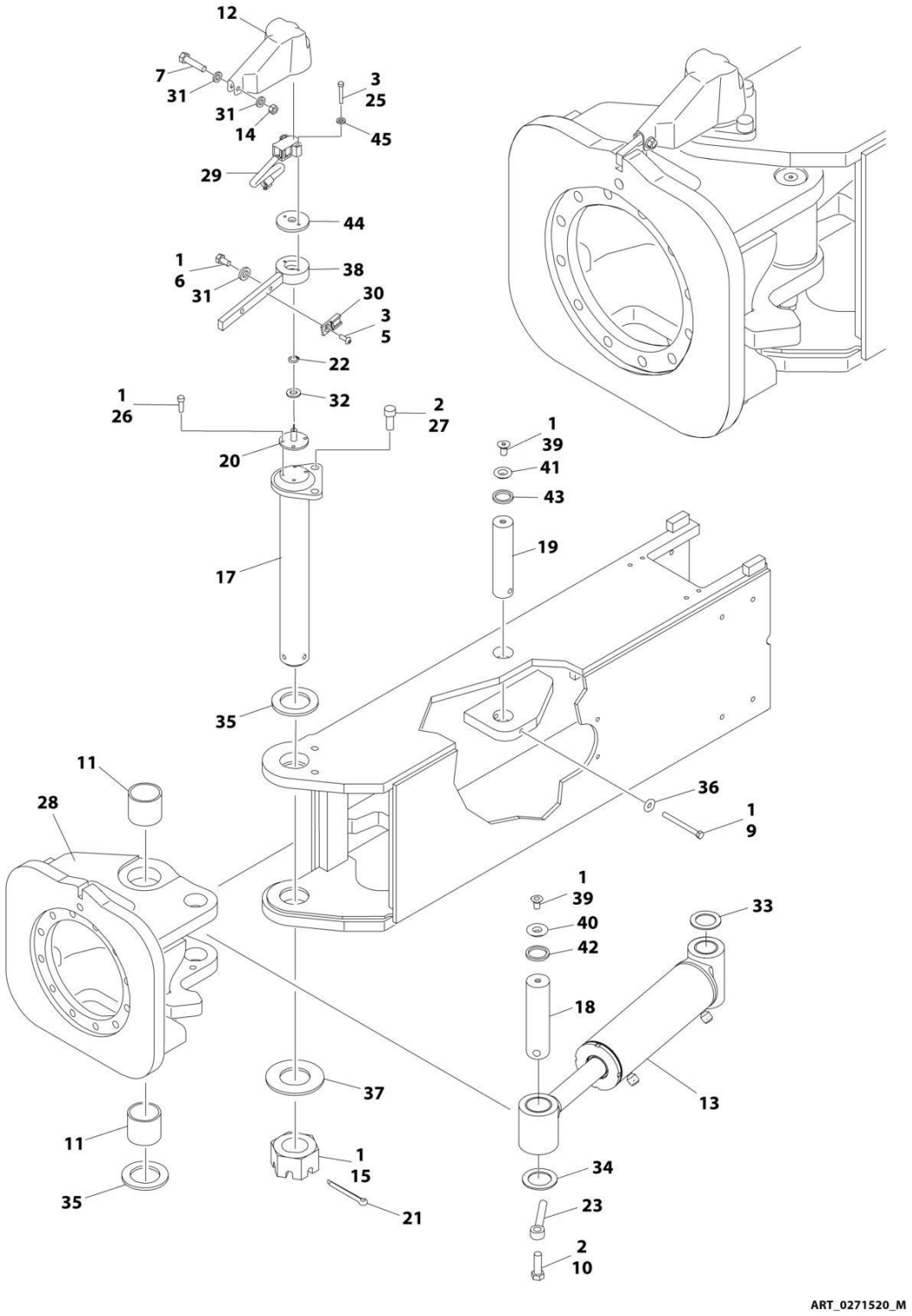

FIGURE 1-4. STEER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0271520	Ref	STEER INSTALLATION	M
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100035	AR	Compound, Locking	
5	0630464	4	Screw #10 x 1/2	
6	0641505	4	Bolt 5/16 x 5/8	
7	0641511	4	Bolt 5/16 x 1-3/8	
9	0641634	4	Bolt 3/8 x 4-1/4	
10	0642016	4	Bolt 5/8 x 2	
11	0962423	8	Bushing	
12	1671040	4	Cover, Sensor	
13	1001251031	4	Steer Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
14	3311505	4	Nut 5/16	
15	3300464	4	Nut, Slotted	
17	3422917	4	Kingpin	
18	3422940	4	Pin, Steer Cylinder (Outer)	
19	3422941	4	Pin, Steer Cylinder (Inner)	
20	3423256	4	Pin, Sensor	
21	3451214	4	Pin, Cotter 3/8 x 3-1/2	
22	3760383	4	Ring, Retaining	
23	3841258	4	Keeper, Pin	
25	3931020	8	Capscrew #10 x 1-1/4	
26	3931412	16	Capscrew 1/4 x 3/4	
27	3932024	8	Capscrew 5/8 x 1-1/2	
28	1001099632	4	Spindle	
29	4360505	4	Switch, Rotary Angle Sensor (Steer)	
30	4460914	4	Terminal	
31	4711500	12	Washer 5/16	
32	4711800	4	Washer 1/2	
33	4740181	4	Thrustwasher	
34	4740229	4	Thrustwasher	
35	4740505	8	Thrustwasher	
36	4751600	4	Washer 3/8	
37	4755000	4	Washer 2-1/2	
38	0200833	4	Arm, Steer	
39	0741606	8	Screw 3/8 x 3/4	
40	1120549	4	Cap, Seal (Outer)	
41	1120550	4	Cap, Seal (Inner)	
42	3960551	4	Seal (Outer)	
43	3960552	4	Seal (Inner)	
44	0080277	4	Adapter, Angle Sensor Pilot	
45	4811600	8	Washer M5	

FIGURE 1-5. WHEEL DRIVE INSTALLATION - REGGIANA RIDUTTORI

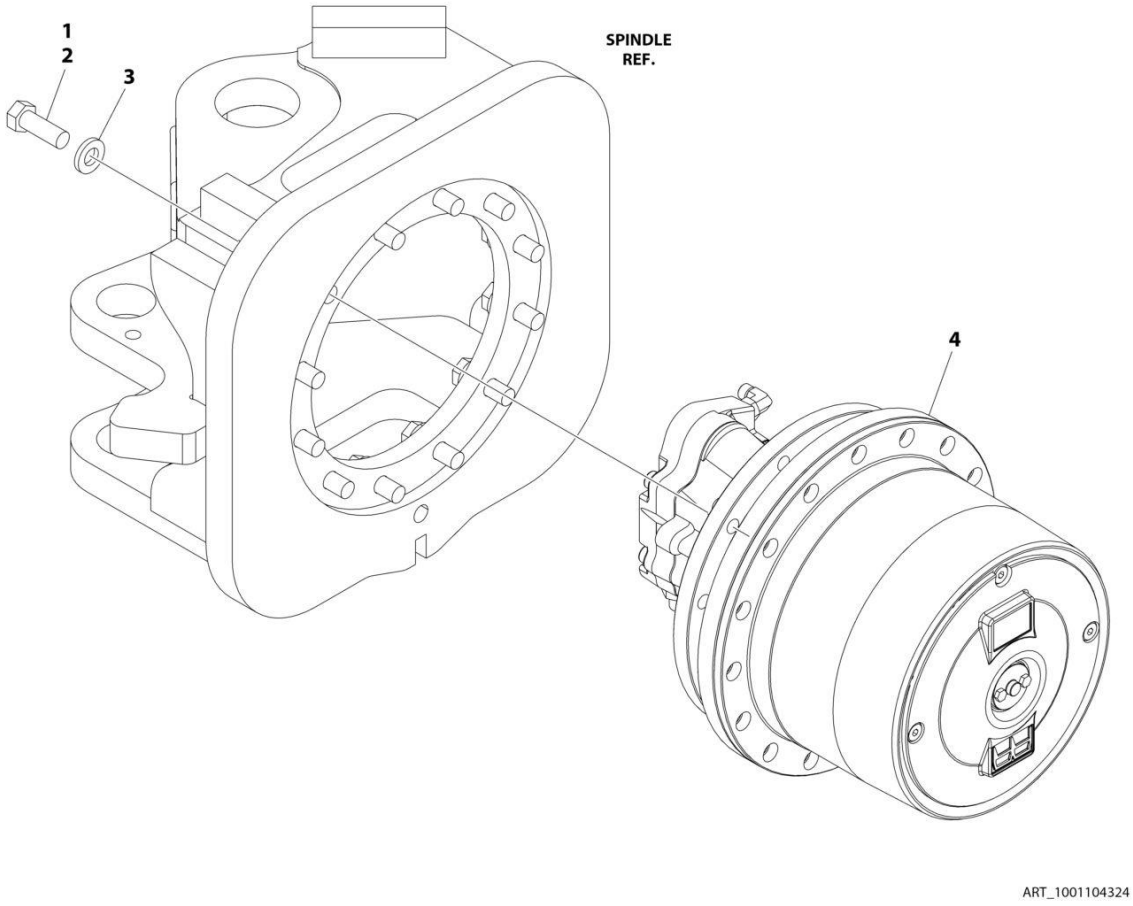

FIGURE 1-5. WHEEL DRIVE INSTALLATION - REGGIANA RIDUTTORI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104324	Ref	WHEEL DRIVE INSTALLATION - REGGIANA RIDUTTORI	B
1	0100019	AR	Compound, Locking	
2	0701617	48	Bolt M16 x 45 (12 Per Wheel)	
3	4892000	48	Washer 5/8 (12 Per Wheel)	
4	1001104315	4	Drive Hub and Motor Assembly - Reggiana Riduttori (See Separate Breakdown in this Section)	

FIGURE 1-6. DRIVE HUB AND MOTOR ASSEMBLY - REGGIANA RIDUTTORI

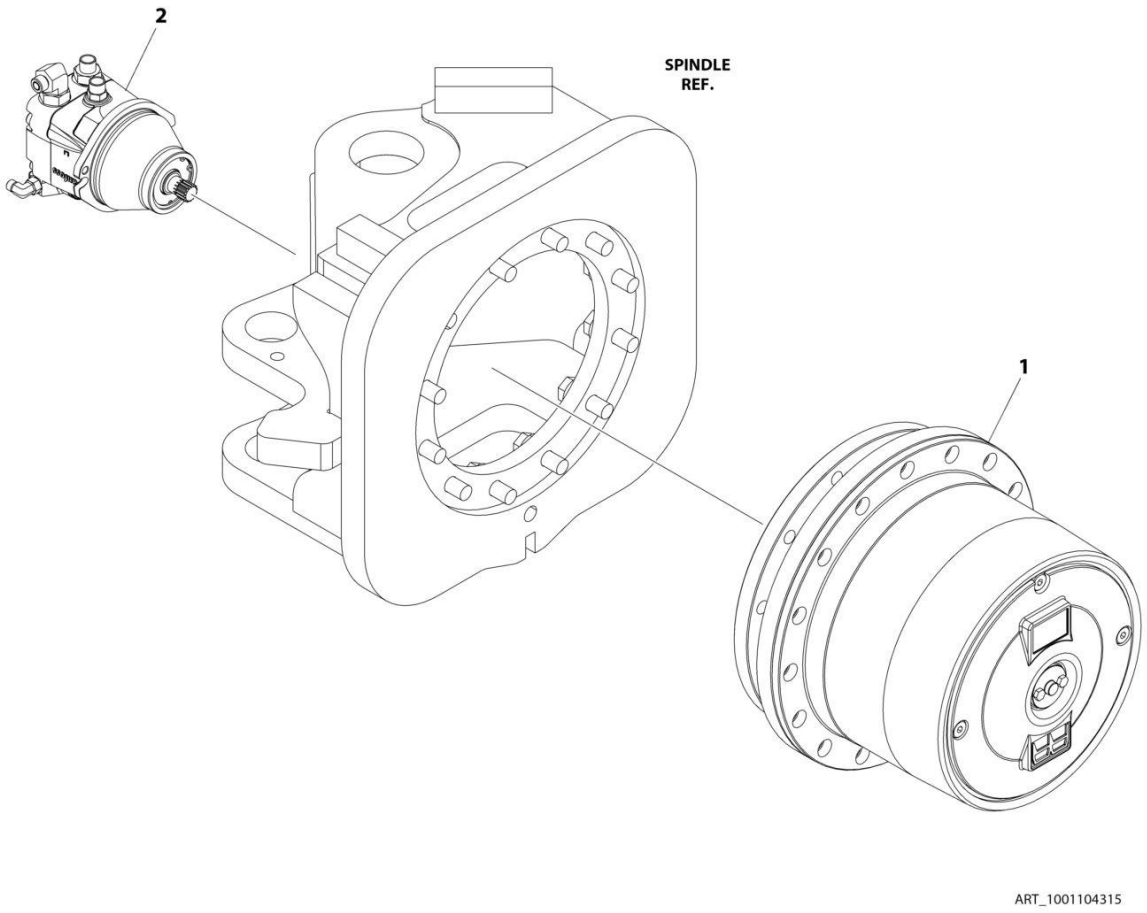

FIGURE 1-6. DRIVE HUB AND MOTOR ASSEMBLY - REGGIANA RIDUTTORI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104315	Ref	DRIVE HUB AND MOTOR ASSEMBLY - REGGIANA RIDUTTORI	B
		Ref	Note: Various brands used on Machines. When replacing complete hub, note that all 4 hubs must be the same brand.	
		Ref	Note: Various brands used on Machines. Identify brand before ordering replacement parts.	
1	1001104325	4	Drive Hub Assembly - Reggiana Riduttori (See Separate Breakdown in this Section)	
2	3160339	4	Drive Motor Assembly (See Separate Breakdown in this Section)	

FIGURE 1-7. DRIVE HUB ASSEMBLY - REGGIANA RIDUTTORI

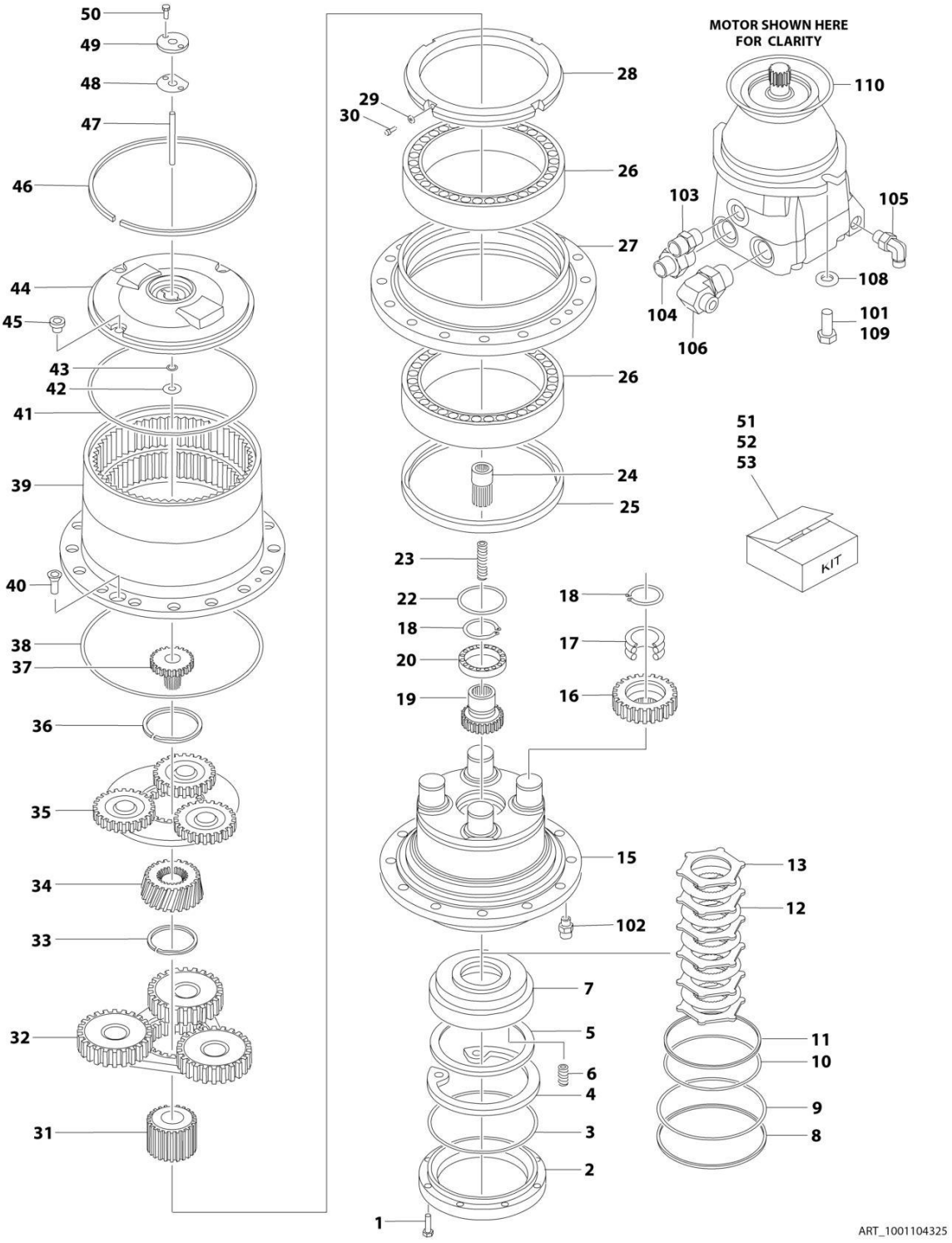

FIGURE 1-7. DRIVE HUB ASSEMBLY - REGGIANA RIDUTTORI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104325	Ref	DRIVE HUB ASSEMBLY - REGGIANA RIDUTTORI	G
		Ref	Note: Various brands used on Machines. Identify brand before ordering replacement parts.	
	1001101550	1	Hub, Torque	C
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	70002021	1	Piston	
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	70002674	4	Washer	
30	70002674	4	Screw	
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: Not Available - Purchase Complete Assembly)	
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)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
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)	
52	70002247	1	Cover Kit (Includes Items 41-50)	
53	70002249	1	Brake Kit (Includes Items 4-13)	
101	0761214	2	Bolt M12 x 30	
102	2110404	1	Fitting, Adapter	
103	2110808	1	Fitting, Adapter	
104	2110812	1	Fitting, Adapter	
105	2130406	1	Fitting, 90 Adapter	
106	2130812	1	Fitting, 90 Adapter	
108	5241200	2	Washer M12	
109	0100011	AR	Compound, Locking	
110	3790158	1	O-Ring	

FIGURE 1-8. DRIVE MOTOR ASSEMBLY

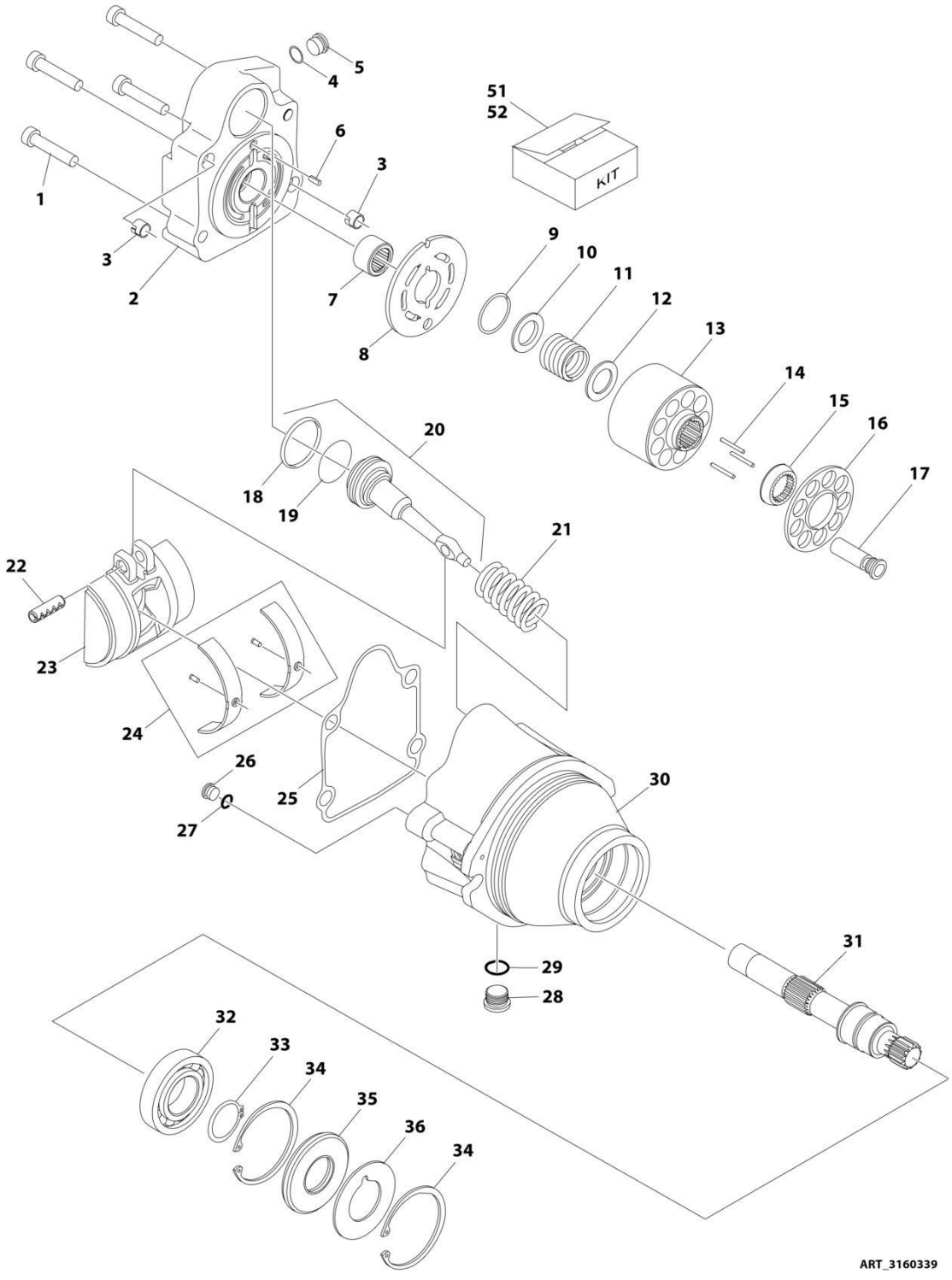

FIGURE 1-8. DRIVE MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160339	Ref	DRIVE MOTOR ASSEMBLY	D
1	7022368	4	Bolt	
2	70000859	1	End Cap, Motor	
3	70003628	2	Locating Pin	
4	See Note	NSS	O-Ring (Note: Use Item 51)	
5	7007420	1	Plug (Includes Item 4)	
6	7007446	1	Pin, Dowel	
7	7021249	1	Bearing, Needle	
8	70000854	1	Plate, Valve	
9	7022311	1	Snap Ring	
10	7022314	1	Retainer, Spring	
11	7024867	1	Spring	
12	7024868	1	Washer	
13	70000855	1	Block, Cylinder	
14	7021275	3	Pin, Slipper	
15	70000856	1	Guide	
16	70000857	1	Retainer, Slipper	
17	7024865	9	Piston, Cylinder	
18	See Note	NSS	Ring, Piston (Note: Use Item 51)	
19	See Note	NSS	O-Ring (Note: Use Item 51)	
20	70000860	1	Piston, Servo (Includes Items 18 & 19)	
21	70000861	1	Spring	
22	See Note	NSS	Pin (Note: Not Available for Purchase)	
23	70000853	1	Swash Plate	
24	70000852	1	Bearing Kit	
25	See Note	NSS	Gasket (Note: Use Item 51)	
26	See Note	NSS	Plug (Note: Not Available for Purchase)	
27	See Note	NSS	O-Ring (Note: Use Item 51)	
28	7022321	1	Plug (Includes Item 29)	
29	See Note	NSS	O-Ring (Note: Use Item 51)	
30	See Note	NSS	Housing (Note: Not Available - Purchase Complete Motor)	
31	70000858	1	Shaft	
32	7007437	1	Bearing	
33	7007439	1	Snap Ring	
34	7007438	2	Snap Ring	
35	See Note	NSS	Seal (Note: Use Item 51)	
36	7022371	1	Washer, Seal Support	
51	70000862	1	Kit 1 - Motor Seal Kit (Includes Items 4, 18, 19, 25, 27, 29 & 35)	
52	7027740	1	Kit 2 - Cylinder Block Kit (Includes Items 9-17)	

FIGURE 1-9. DRIVE HUB AND MOTOR ASSEMBLY - PMP PUMP

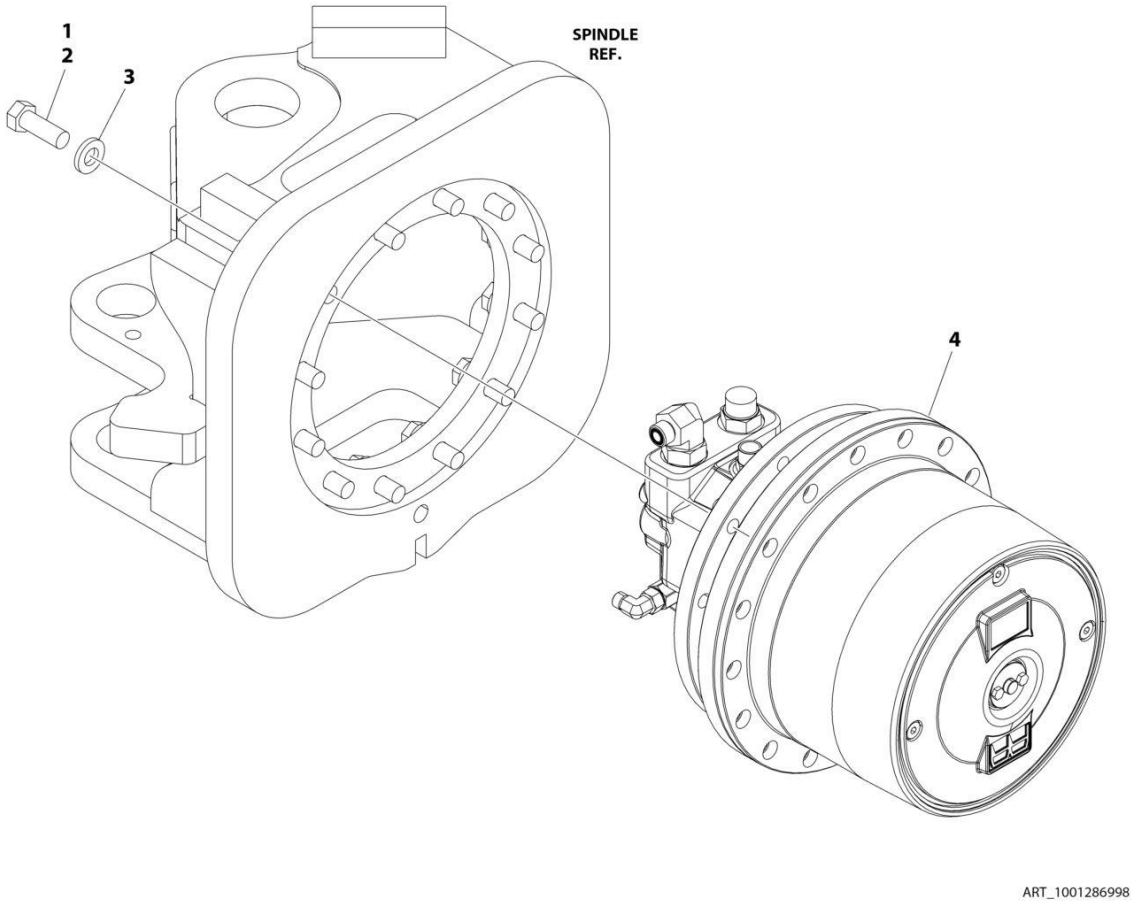

FIGURE 1-9. DRIVE HUB AND MOTOR ASSEMBLY - PMP PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286998	Ref	WHEEL DRIVE INSTALLATION - PMP PUMP	A
1	0100019	AR	Compound, Locking	
2	0701617	48	Bolt M16 x 45	
3	4892000	48	Washer 5/8	
4	1001286999	4	Drive Hub and Motor Assembly - PMP Pumps (See Separate Breakdown in this Section)	

FIGURE 1-10. DRIVE HUB AND MOTOR ASSEMBLY - PMP PUMP

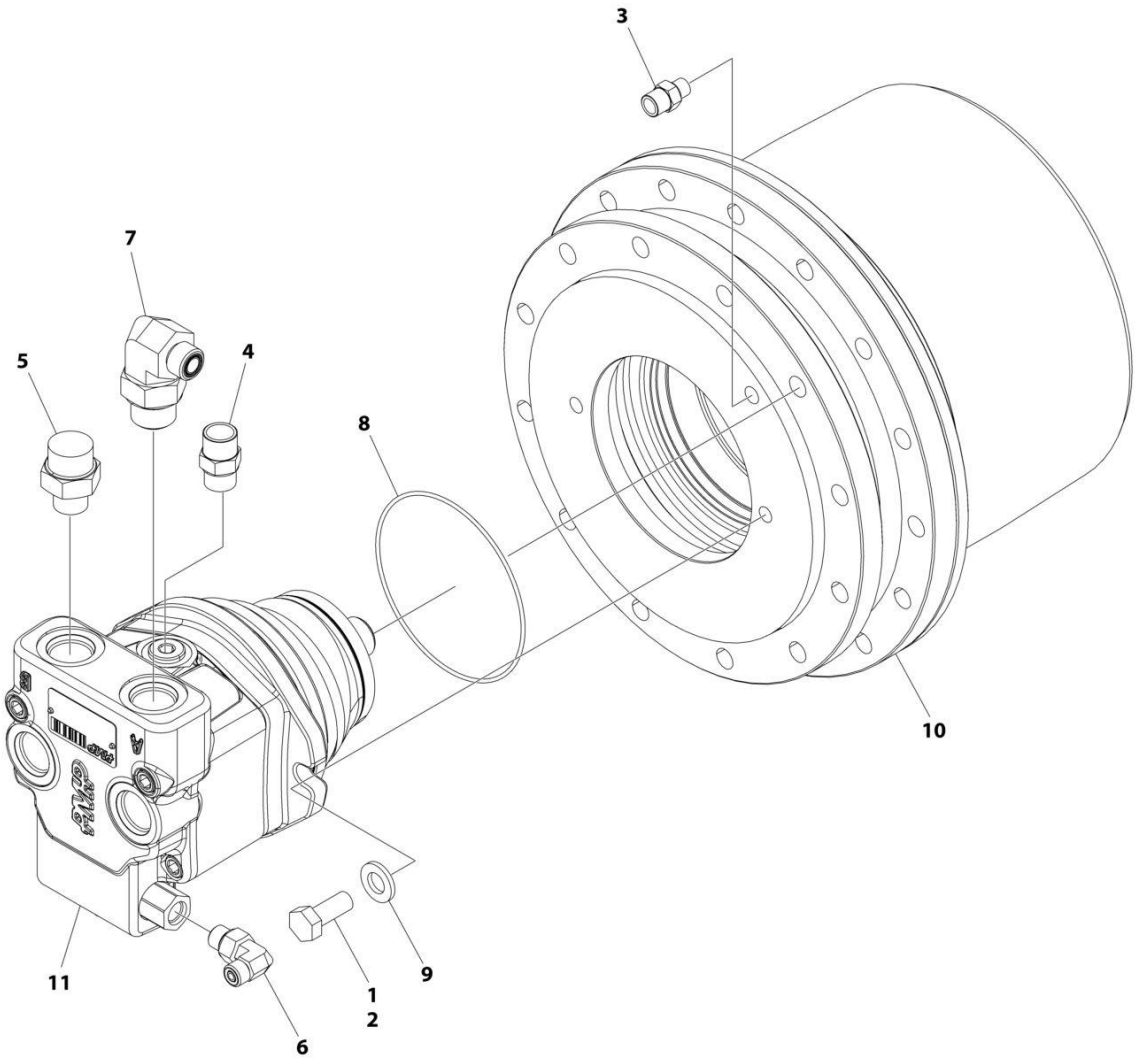

FIGURE 1-10. DRIVE HUB AND MOTOR ASSEMBLY - PMP PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286999	Ref	DRIVE HUB AND MOTOR ASSEMBLY - PMP PUMP	A
1	0100011	AR	Compound, Locking	
2	0761214	2	Bolt M12 x 30	
3	2110404	1	Fitting, Straight ORFS/ORB	
4	2110808	1	Fitting, Straight ORFS/ORB	
5	2110812	1	Fitting, Straight ORFS/ORB	
6	2130406	1	Fitting, 90 ORFS/ORB	
7	2130812	1	Fitting, 90 ORFS/ORB	
8	3790158	1	O-Ring	
9	5241200	2	Washer	
10	1001101550	1	Drive Hub Assembly (See Separate Breakdown in this Section)	
11	1001286959	1	Drive Motor Assembly (See Separate Breakdown in this Section)	

FIGURE 1-11. DRIVE MOTOR ASSEMBLY - PMP PUMPS

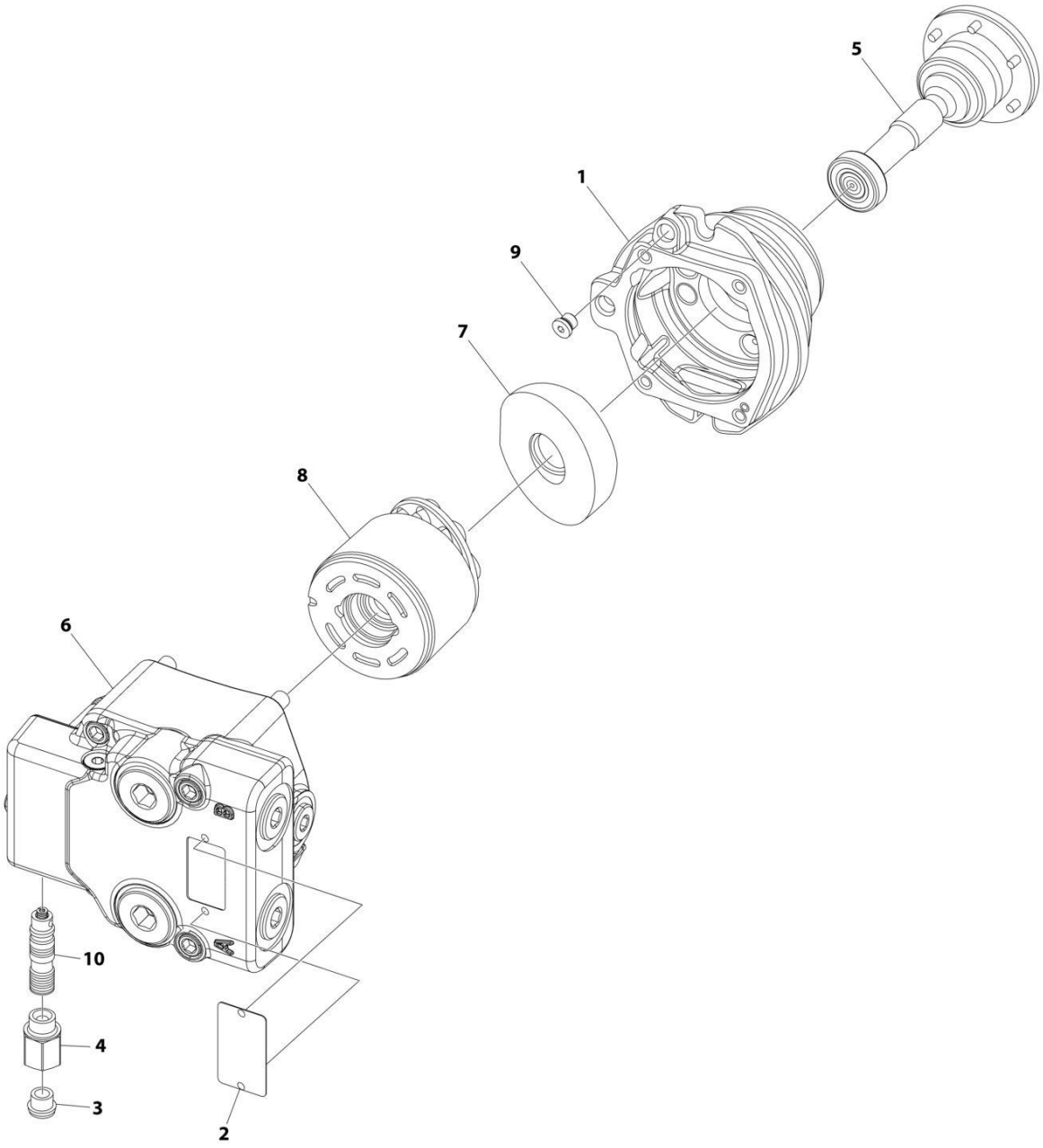

FIGURE 1-11. DRIVE MOTOR ASSEMBLY - PMP PUMPS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286959	Ref	DRIVE MOTOR ASSEMBLY	A
	See Note	Ref	(Note: No Other Service Parts Available)	
1	NPN	1	Body	
2	See Note	NSS	Plate, Serial Number (Note: Not Available for Purchase)	
3	70008513	1	Plug	
4	70008514	1	Fitting, Straight	
5	70008515	1	Assembly, Shaft	
6	70008516	1	Assembly, Valve	
6	70008521	1	Gasket (Between Valve Assembly & Rotor Assembly)	
6	70005023	2	Rivet	
6	70008522	1	Cartridge, Shuttle Valve	
6	70008523	2	Capscrew M10 x 100 CL12.9	
6	70008524	2	Capscrew M10 x 70 CL12.9	
7	70008517	1	Assembly, Swash Plate	
8	70008518	1	Assembly, Rotor	
9	70008519	1	Plug	
10	70008520	1	Cartridge, Control Valve	

FIGURE 1-12. TIRE AND WHEEL INSTALLATION - FOAM FILLED

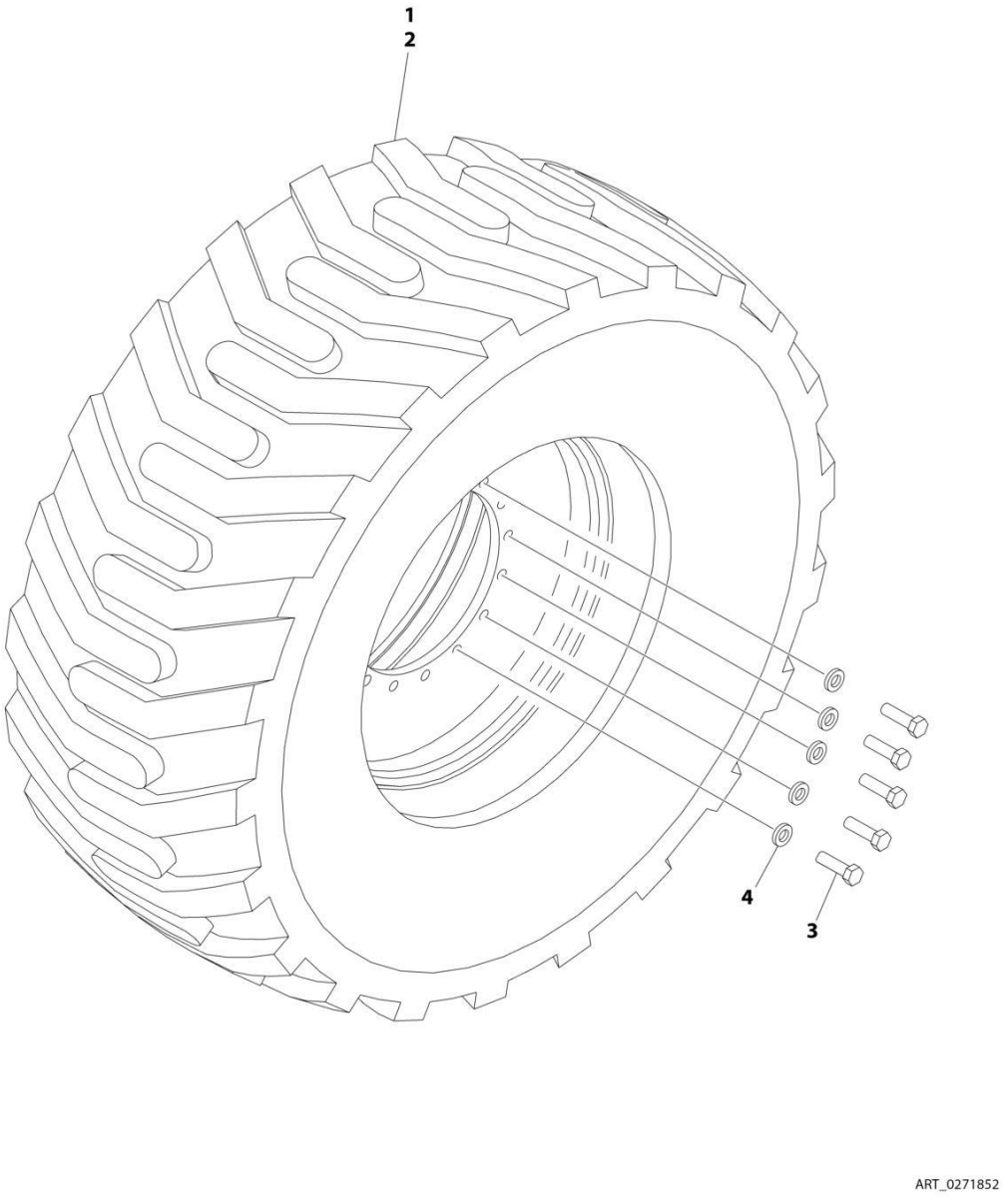

FIGURE 1-12. TIRE AND WHEEL INSTALLATION - FOAM FILLED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0271852	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	0272055	2	Right Side Tire and Wheel Assembly - Foam - Filled	
2	0272056	2	Left Side Tire and Wheel Assembly - Foam - Filled	
3	0701619	64	Bolt M16 x 55 (16 Per Wheel)	
4	4892000	64	Washer 5/8 (16 Per Wheel)	

FIGURE 1-13. TIRE AND WHEEL INSTALLATION - SOLID

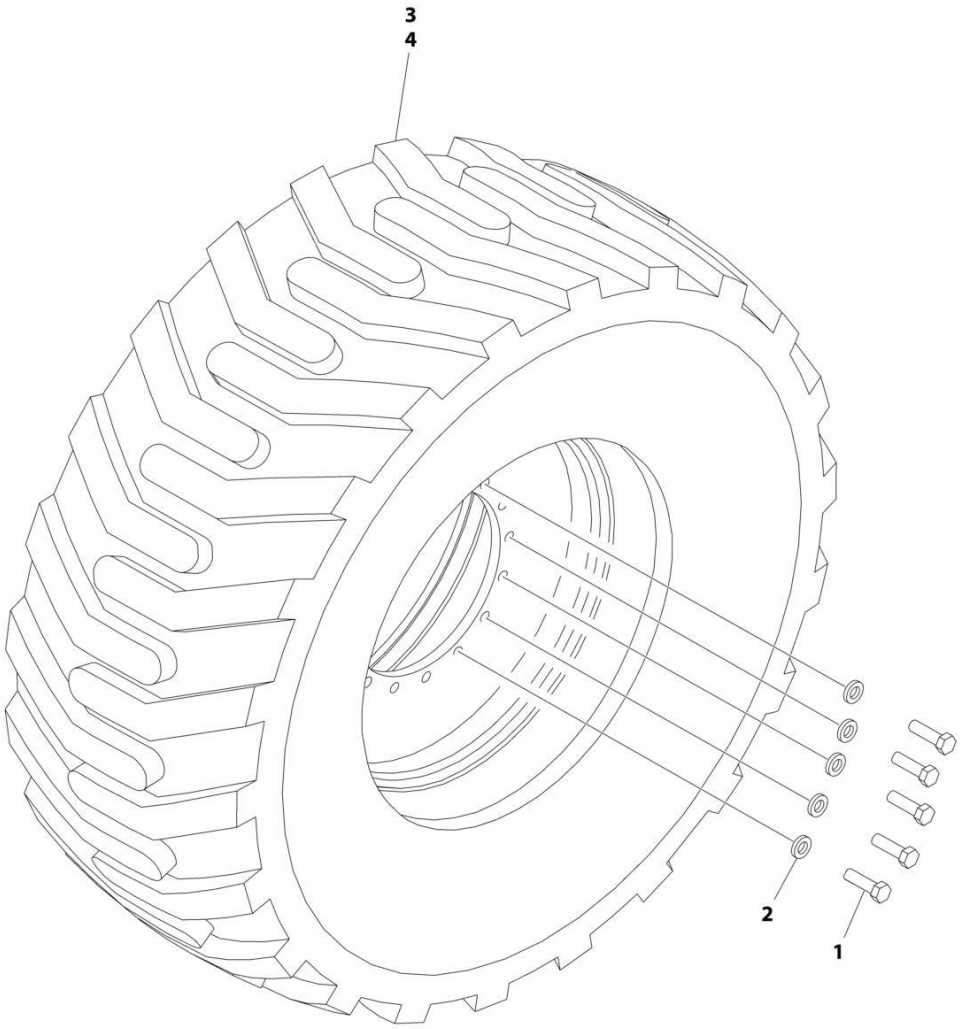

FIGURE 1-13. TIRE AND WHEEL INSTALLATION - SOLID

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115961	Ref	TIRE AND WHEEL INSTALLATION - SOLID	A
1	0701619	64	Bolt M16 x 55 (16 Per Wheel)	
2	4892000	64	Washer 5/8 (16 Per Wheel)	
3	1001112716	2	Right Side Tire and Wheel Assembly - Solid	
4	1001112669	2	Left Side Tire and Wheel Assembly - Solid	

FIGURE 1-14. FRAME VALVES INSTALLATION

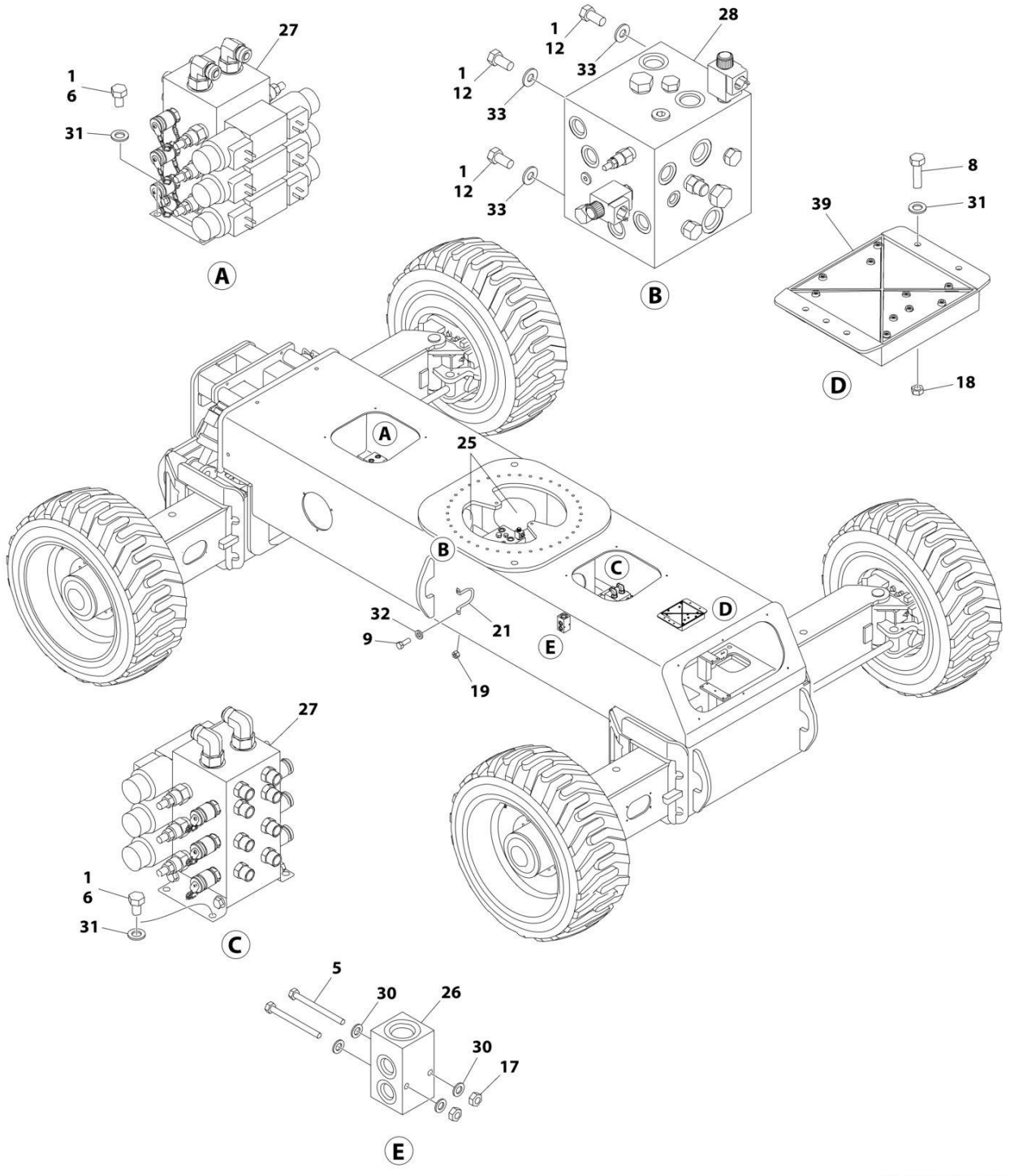

FIGURE 1-14. FRAME VALVES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219989	Ref	FRAME VALVES INSTALLATION - WITH 1 CELL LSS	I
1	0100011	AR	Compound, Locking	
5	0641424	2	Bolt 1/4 x 3	
6	0641504	8	Bolt 5/16 x 1/2	
8	0641509	4	Bolt 5/16 x 1-1/8	
9	0641608	4	Bolt 3/8 x 1	
12	0641808	4	Bolt 1/2 x 1	
17	3311405	2	Nut 1/4	
18	3311505	4	Nut 5/16	
19	3311605	4	Nut 3/8	
21	3841340	2	Loop, Hose	
25	4060808	124 in/ 3.2m	Flex-Trim	
26	4641155	1	Manifold, Junction	
27	4641268	2	Valve Assembly - Steer (See Separate Breakdown in this Section)	
28	4641454	1	Traction Valve Assembly (See Separate Breakdown in this Section)	
30	4711400	4	Washer 1/4	
31	4711500	12	Washer 5/16	
32	4711600	4	Washer 3/8	
33	4711800	4	Washer 1/2	
39	1001112758	1	Module (Chassis) (Note: Re-calibration required when Replaced)	

FIGURE 1-15. STEER VALVE ASSEMBLY

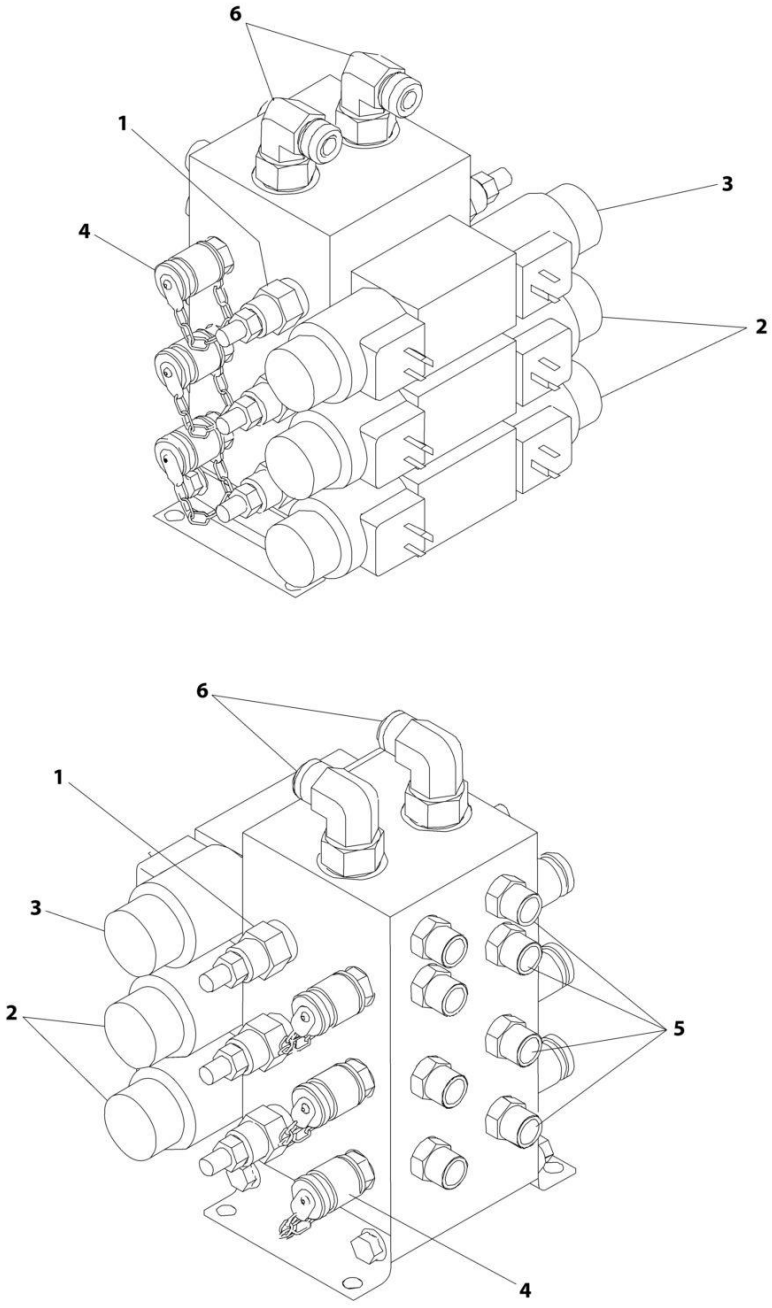

FIGURE 1-15. STEER VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4641268	Ref	STEER VALVE ASSEMBLY	C
1	7026028	12	Cartridge (6 Per Valve)	
1	7011346	12	Seal Kit - Cartridge (1 Per Cartridge)	
2	7024927	4	Valve (2 Per Valve)	
2	7012773	4	Seal Kit - Cartridge (1 Per Cartridge)	
2	7018991	8	Coil (2 Per Valve)	
3	70001976	2	Valve (1 Per Valve)	
3	7012773	2	Seal Kit - Cartridge (1 Per Cartridge)	
3	7018991	4	Coil (2 Per Valve)	
3	70001939	2	Orifice	
4	2221086	6	Check, Pressure	
5	2110606	8	Fitting, Straight	
6	2130810	2	Fitting, 90	

FIGURE 1-16. TRACTION VALVE ASSEMBLY

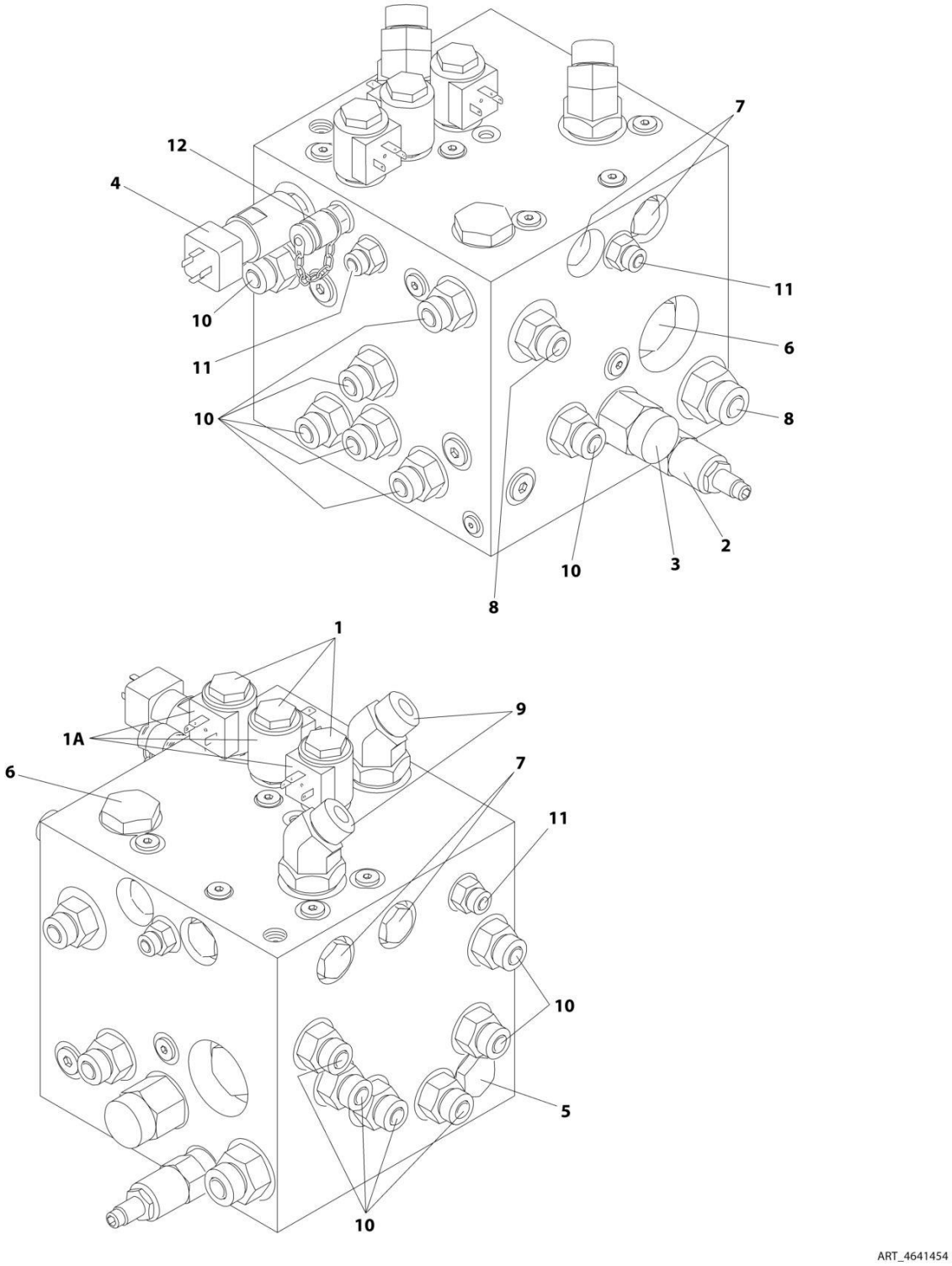

FIGURE 1-16. TRACTION VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4641454	Ref	TRACTION VALVE ASSEMBLY	E
1	7012941	3	Cartridge, Valve (Steer, Brake and Axle Lockout)	
1	7010543	3	Seal Kit - 7012941 Cartridge	
1A	7012944	2	Coil	
2	70000801	1	Cartridge, Valve (Relief)	
2	7012998	1	Seal Kit - 70000801 Cartridge	
3	70000802	1	Cartridge, Valve (Pilot)	
3	7012942	1	Seal Kit - 70000802 Cartridge	
4	70000803	1	Pressure Switch	
5	70000804	1	Cartridge, Valve (Shuttle)	
5	70000805	1	Seal Kit - 70000804 Cartridge	
6	70000806	2	Cartridge, Valve (Flow Divider)	
6	7017405	2	Seal Kit - 70000806 Cartridge	
7	7012955	4	Cartridge, Valve (Check)	
7	7012967	4	Seal Kit - 7012955 Cartridge	
8	2111012	2	Fitting, Straight	
9	2151012	2	Fitting, 45	
10	2110810	13	Fitting, Straight	
11	2110406	3	Fitting, Straight	
12	2221086	1	Check, Pressure	
13	2220883	1	Plug, #4 (Not Shown)	

FIGURE 1-17. FRAME COVERS INSTALLATION

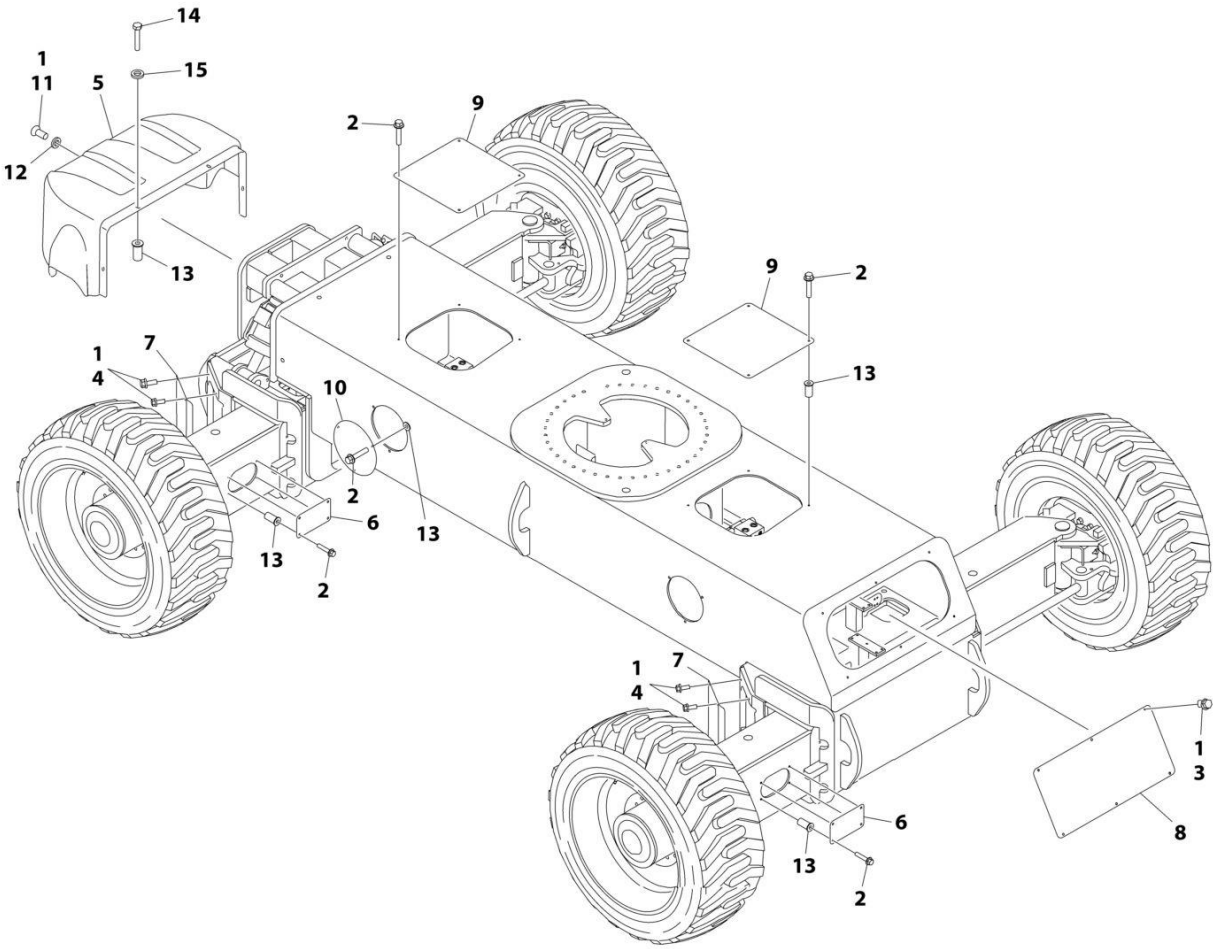

FIGURE 1-17. FRAME COVERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176346	Ref	FRAME COVERS INSTALLATION - ABS	C
1	0100011	AR	Compound, Locking	
2	0791410	36	Screw 1/4 x 1-1/4	
3	0791604	6	Screw 3/8 x 1/2	
4	0791607	16	Screw 3/8 x 7/8	
5	1670996	1	Cover, Front	
6	1671045	4	Plate, Cover (Axle Side)	
7	1671046	4	Plate, Cover (Axle Corner)	
8	1671047	1	Plate, Cover (Rear)	
9	1671048	2	Plate, Cover (Frame Top)	
10	1671049	4	Plate, Cover (Frame Side)	
11	3900283	3	Screw 3/8 x 3/4	
12	4751600	3	Washer 3/8	
13	8580420	40	Nut, Well	
14	0641412	4	Bolt 1/4 x 1-1/2	
15	4740430	4	Washer, Fender	

SECTION 2 - TURNTABLE

FIGURE 2-1. TURNTABLE VALVES INSTALLATION

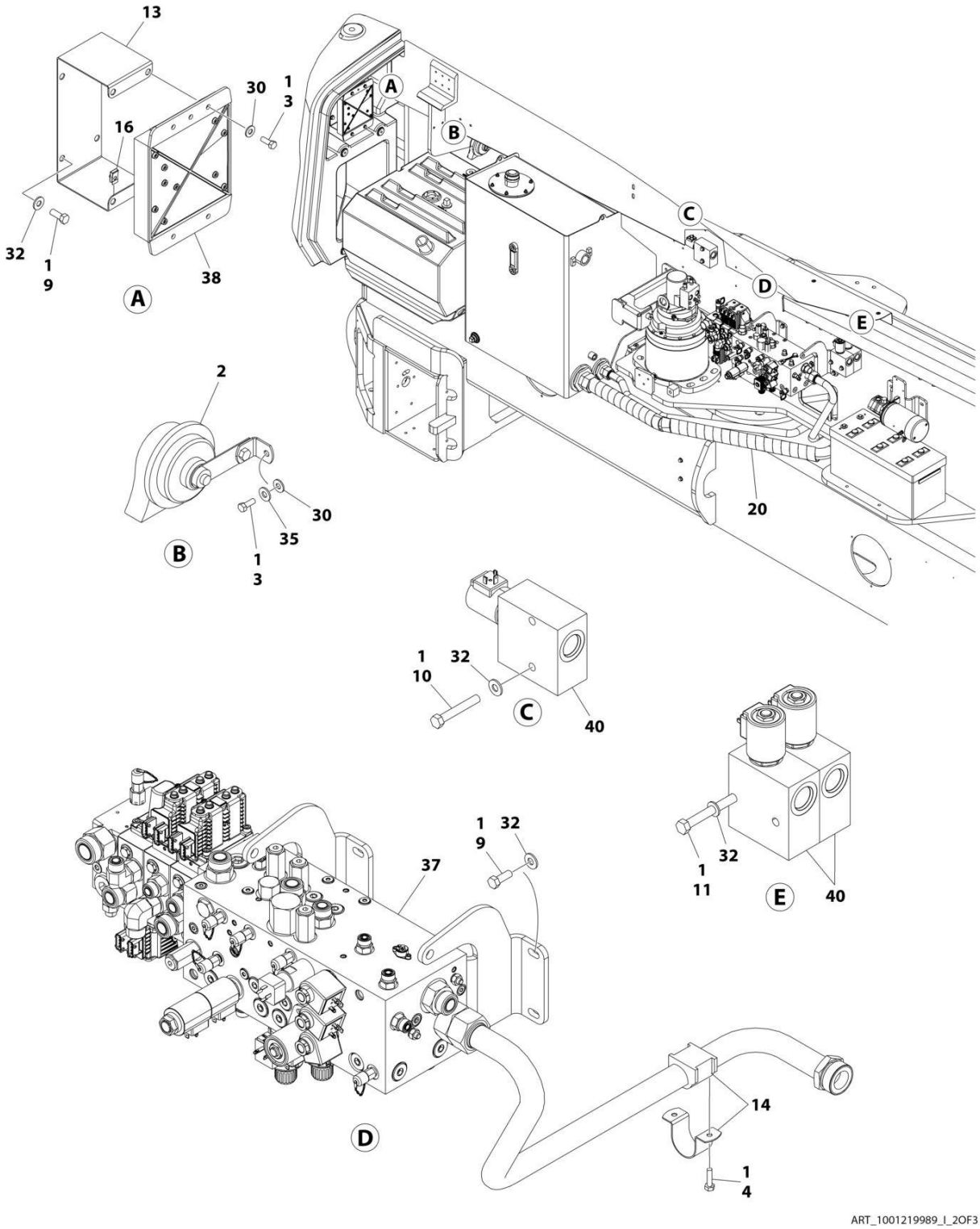

FIGURE 2-1. TURNTABLE VALVES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219989	Ref	TURNTABLE VALVES INSTALLATION	I
1	0100011	AR	Compound, Locking	
2	0140001	1	Horn	
3	0641406	5	Bolt 1/4 x 3/4	
4	0641408	2	Bolt 1/4 x 1	
9	0641608	8	Bolt 3/8 x 1	
10	0641620	2	Bolt 3/8 x 2-1/2	
11	0641636	2	Bolt 3/8 x 4-1/2	
13	0902800	1	Bracket, Module Mounting	
14	1320322	1	Clamp	
16	3300454	4	Nut, Special	
20	3380523	1	Shield, Tube	
30	4711400	5	Washer 1/4	
32	4711600	12	Washer 3/8	
35	4791400	1	Starwasher 1/4	
37	1001289298	1	Main Valve Assembly (See Separate Breakdown in this Section)	
38	1001227960	1	Module, B.L.A.M (Note: Control System must be Re-calibrated when Module is Replaced)	
40	1001112850	3	Enable Valve Assembly	
40	7024890	3	Coil	

FIGURE 2-2. MAIN VALVE ASSEMBLY

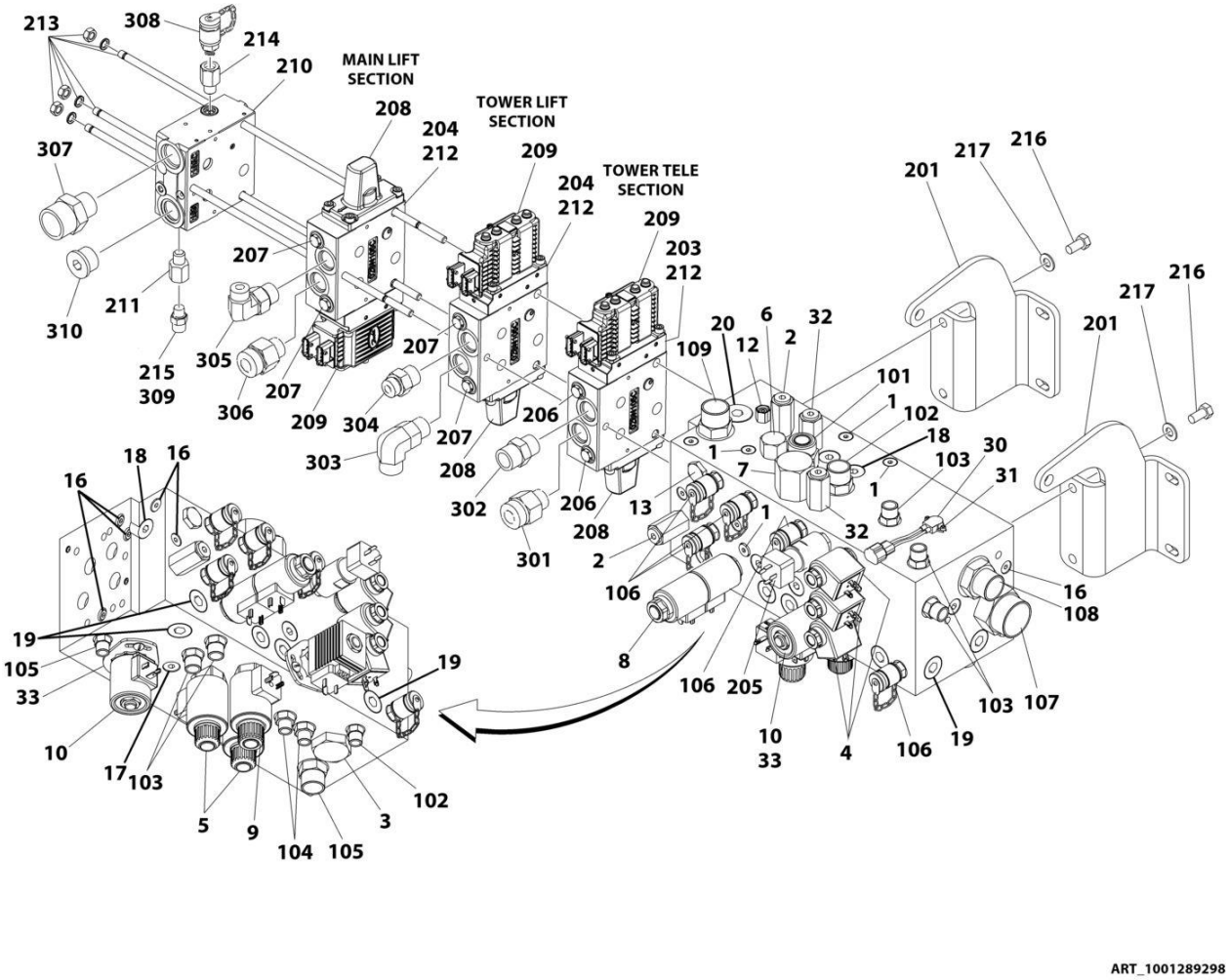

FIGURE 2-2. MAIN VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001289298	Ref	MAIN VALVE ASSEMBLY	A
		Ref	MAIN VALVE BODY COMPONENTS	
1	7026684	4	Cartridge, Check Valve	
1	7026685	4	Seal Kit - Valve	
2	7026686	2	Cartridge, Relief Valve	
2	7026687	2	Seal Kit - Valve	
3	7026688	1	Cartridge, Check Valve	
3	7026689	1	Seal Kit - Valve	
4	70007229	3	Cartridge, Solenoid Valve Less Coil	
4	70007230	3	Seal Kit - Valve	
4	70007231	3	Coil	
5	70007939	2	Cartridge, Solenoid Valve Less Coil	
5	7026693	2	Seal Kit - Valve	
5	70007940	2	Coil	
6	7026694	1	Cartridge, Differential Sensing Valve	
6	7026695	1	Seal Kit - Valve	
7	7026696	1	Cartridge, Differential Sensing Valve	
7	7026697	1	Seal Kit - Valve	
8	70007226	1	Cartridge, Solenoid Valve Less Coil	
8	70007227	1	Seal Kit - Valve	
8	70007228	2	Coil	
9	70007941	1	Valve, Proportional (Note: Coil Not Available Separately)	
10	7027200	2	Cartridge, Solenoid Valve	
10	7010697	2	Seal Kit - Valve	
10	7012943	2	Coil	
12	7027201	1	Cartridge, Check Valve	
12	7027202	1	Seal Kit - Valve	
13	7027203	1	Cartridge, Check Valve	
13	7026687	1	Seal Kit - Valve	
16	2220883	8	Plug, #4 Tapered	
17	2220885	3	Plug, #6 Tapered	
18	2220886	5	Plug, #8 Tapered	
19	2220887	8	Plug, #10 Tapered	
20	2220888	1	Plug, #12 Tapered	
30	7027738	1	Switch, Thermostatic	
31	70006315	1	Screw #6 x 1/2	
32	7027204	2	Cartridge, Relief Valve	
32	7026687	2	Seal Kit - Valve	
33	70000781	2	Lock Plate, Cartridge	
		Ref	MAIN VALVE BODY FITTINGS	
101	2111210	1	Fitting, Straight	
102	2111010	2	Fitting, Straight	
103	2110606	5	Fitting, Straight	
104	2110406	2	Fitting, Straight	
105	2110404	2	Fitting, Straight	
106	2221086	5	Check, Pressure	
107	2112016	1	Fitting, Straight	
108	2111216	1	Fitting, Straight	
109	2111212	1	Fitting, Straight	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PROPORTIONAL VALVE SECTION AND ADDITIONAL COMPONENTS	
201	7026671	2	Bracket	
203	7026681	1	Spool Assembly (Tower Telescope)	
204	7026682	2	Spool Assembly (Tower/Main Lift)	
205	7026672	1	Switch, Pressure	
206	7026673	2	Valve, Shock	
207	7026674	4	Valve, Shock	
208	7026675	3	Cover	
209	70007583	3	Actuator, Electrical	
210	70001421	1	Module, Pump Side	
210	8007939	1	Seal Kit, Pump Side Module (Internal Seals for Pump Side Module)	
211	7026678	1	Plug with Check Valve	
212	7026679	3	Module	
213	7026680	1	Tie-Rod Kit (Includes Hardware and Seals)	
214	70008345	1	Fitting, Adapter	
215	70008344	1	Fitting, Straight 4-5 ORFS	
216	70008343	4	Bolt 3/8 x 7/8	
217	70008342	4	Washer	
		Ref	PROPORTIONAL VALVE SECTION FITTINGS	
301	2111210	1	Fitting, Straight	
302	2111010	1	Fitting, Straight	
303	2131010	1	Fitting, 90	
304	2110810	1	Fitting, Straight	
305	2130810	1	Fitting, 90	
306	2111210	1	Fitting, Straight	
307	7026683	1	Fitting, Straight	
308	2221086	1	Check, Pressure	
309	2110404	1	Fitting, Straight 4-4 ORFS/ORB	
310	2220888	1	Plug, #12 Tapered	

FIGURE 2-3. BATTERY AND AUXILIARY PUMP INSTALLATION - WITHOUT COLD WEATHER PLUS PACKAGE

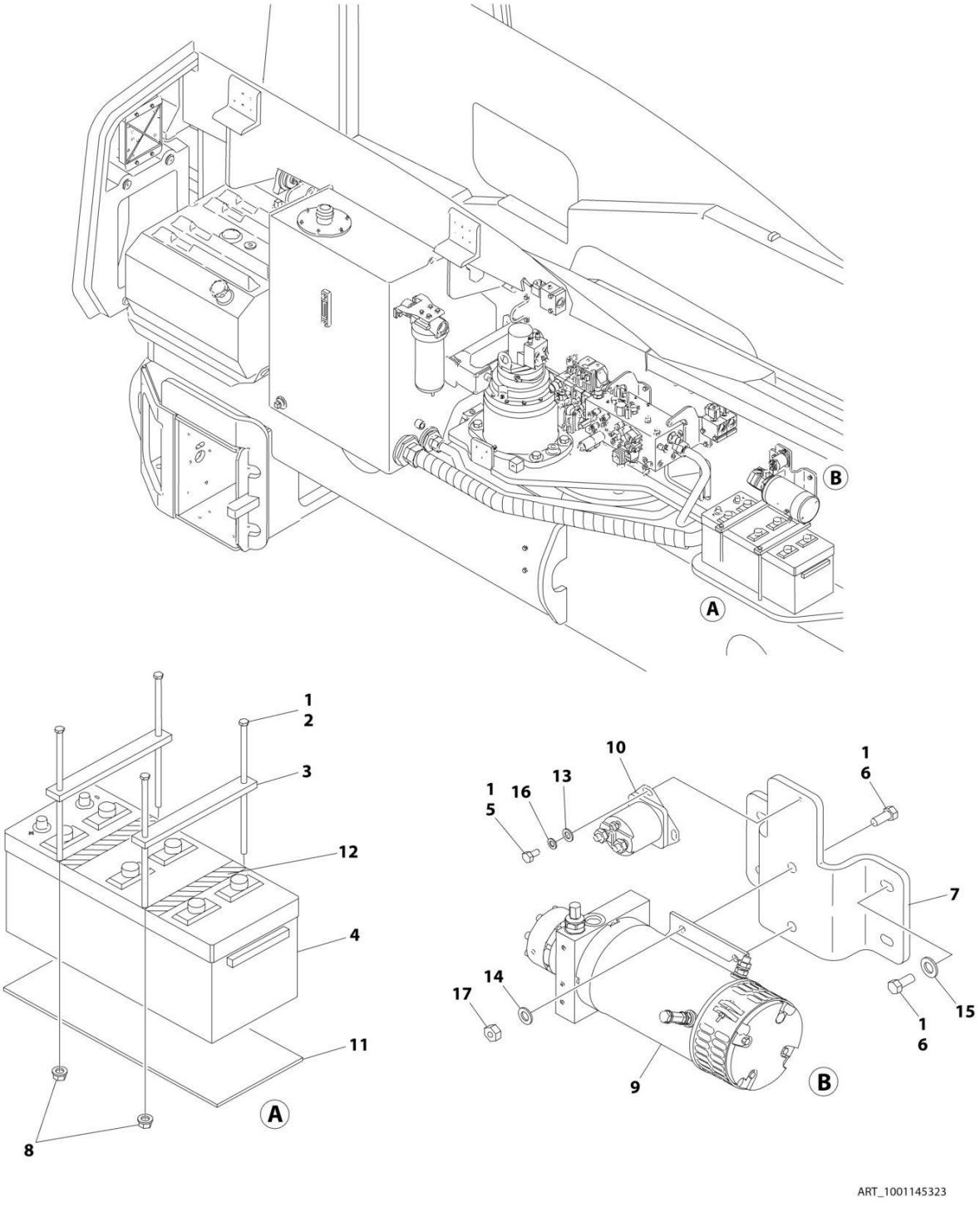

FIGURE 2-3. BATTERY AND AUXILIARY PUMP INSTALLATION - WITHOUT COLD WEATHER PLUS PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001145323	Ref	BATTERY AND AUXILIARY PUMP INSTALLATION - WITHOUT COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0236768	4	Rod, Hold-down	
3	0363062	2	Bar, Battery	
4	0400020	1	Battery	
5	0641408	2	Bolt 1/4 x 1	
6	0641607	8	Bolt 3/8 x 7/8	
7	0903696	1	Bracket	
8	3311608	4	Nut 3/8	
9	1001162880	1	Auxiliary Pump Assembly (See Separate Breakdown in this Section)	
10	3740067	1	Relay	
11	3980006	1	Seat, Battery	
12	4420037	17 in /43cm	Tape, Insulation	
13	4711400	2	Washer 1/4	
14	4711600	4	Washer 3/8	
15	4751600	4	Washer 3/8	
16	4791400	2	Starwasher 1/4	
17	3311605	4	Nut 3/8	

FIGURE 2-4. BATTERY AND AUXILIARY PUMP INSTALLATION - WITH COLD WEATHER PLUS PACKAGE

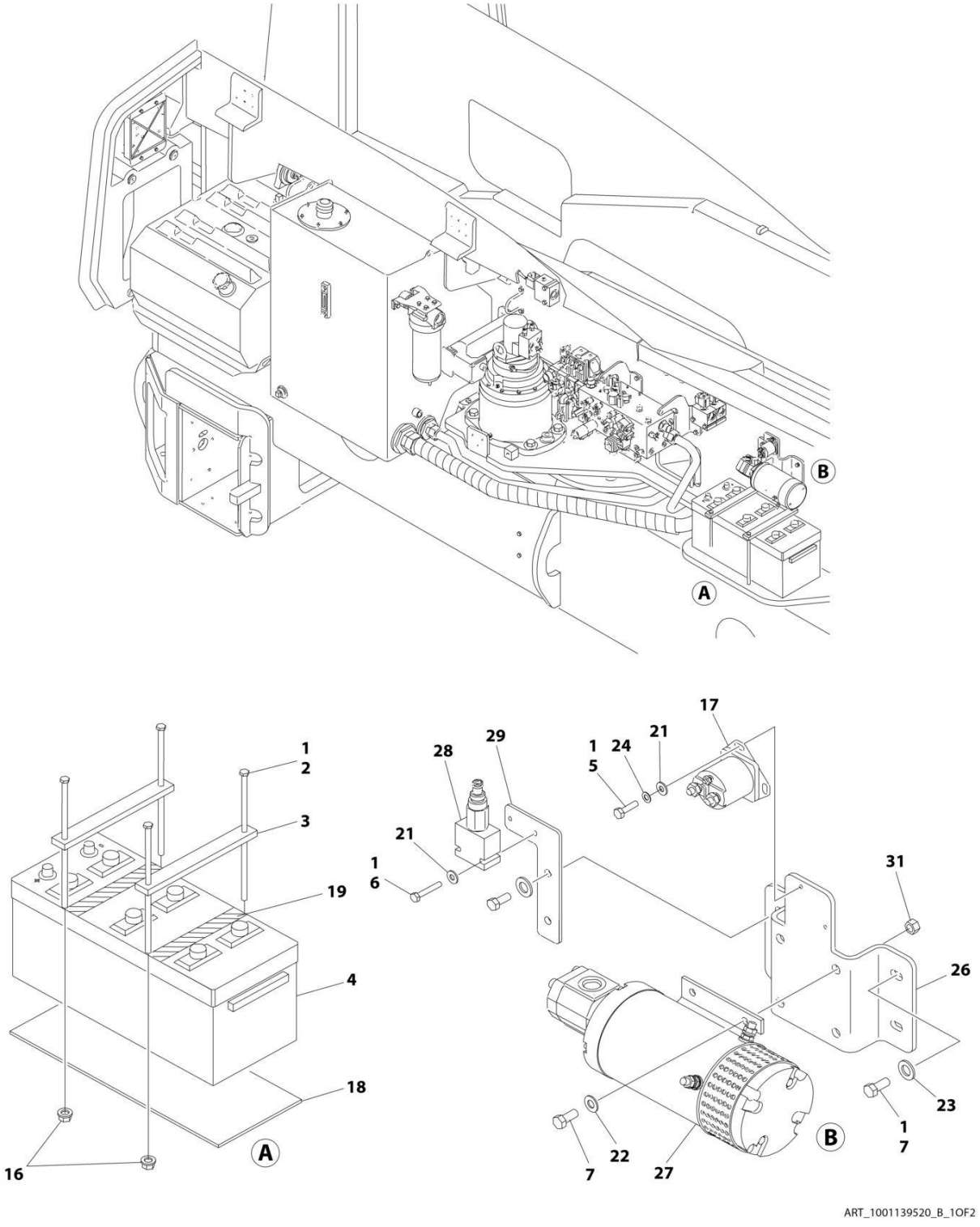

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FIGURE 2-4. BATTERY AND AUXILIARY PUMP INSTALLATION - WITH COLD WEATHER PLUS PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139520	Ref	BATTERY AND AUXILIARY PUMP INSTALLATION - WITH COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0236768	4	Rod, Hold-down	
3	0363062	2	Bar, Battery	
4	0400020	1	Battery	
5	0641404	2	Bolt 1/4 x 1/2	
5	0641408	2	Bolt 1/4 x 1	
6	0641413	2	Bolt 1/4 x 1-5/8	
7	0641607	8	Bolt 3/8 x 7/8	
16	3311608	4	Nut 3/8	
17	3740067	1	Relay	
18	3980006	1	Seat, Battery	
19	4420037	17 in /43cm	Tape, Insulation	
21	4711400	4	Washer 1/4	
22	4711600	4	Washer 3/8	
23	4751600	4	Washer 3/8	
24	4791400	2	Starwasher 1/4	
26	0903696	1	Bracket	
27	1001138838	1	Auxiliary Pump Assembly (See Separate Breakdown in this Section)	
28	1001133163	1	Valve, Relief	
28	7023936	1	Seal Kit	
29	1001133593	1	Bracket	
31	3311605	4	Nut 3/8	

FIGURE 2-5. AUXILIARY PUMP ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)

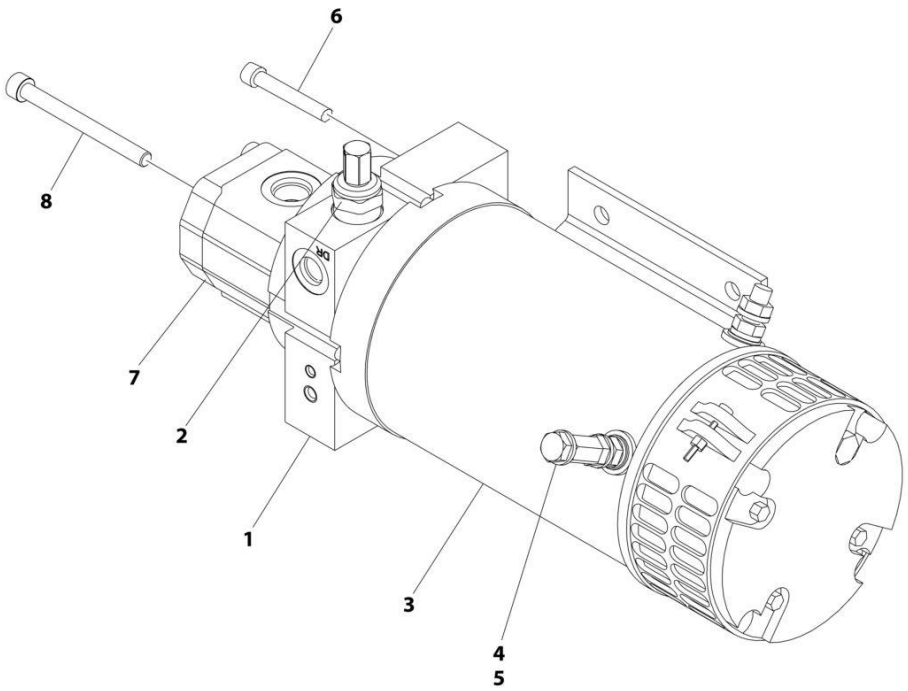

FIGURE 2-5. AUXILIARY PUMP ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162880	Ref	AUXILIARY PUMP ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)	A
1	1001164700	1	Base Assembly	
1	70005618	1	Plug	
1	70005617	1	Spring	
1	70005616	1	Poppet, Check	
2	1001164700	1	Valve, Relief	
3	See Note	1	Motor (Note: Not Available for Purchase)	
4	70004006	1	Nut 3/8	
5	70004007	1	Bolt 3/8x3/4	
6	70004005	4	Capscrew 1/4x3	
6	See Note	1	Sleeve (Note: Not Available for Purchase)	
7	See Note	1	Pump Assembly (Note: Not Available for Purchase)	
7	70005615	1	Seal, Shaft	
7	70005619	1	Bearing	
8	See Note	4	Screw M8 x 85 (Note: Not Available for Purchase)	

FIGURE 2-6. AUXILIARY PUMP ASSEMBLY (WITH COLD WEATHER PLUS PACKAGE)

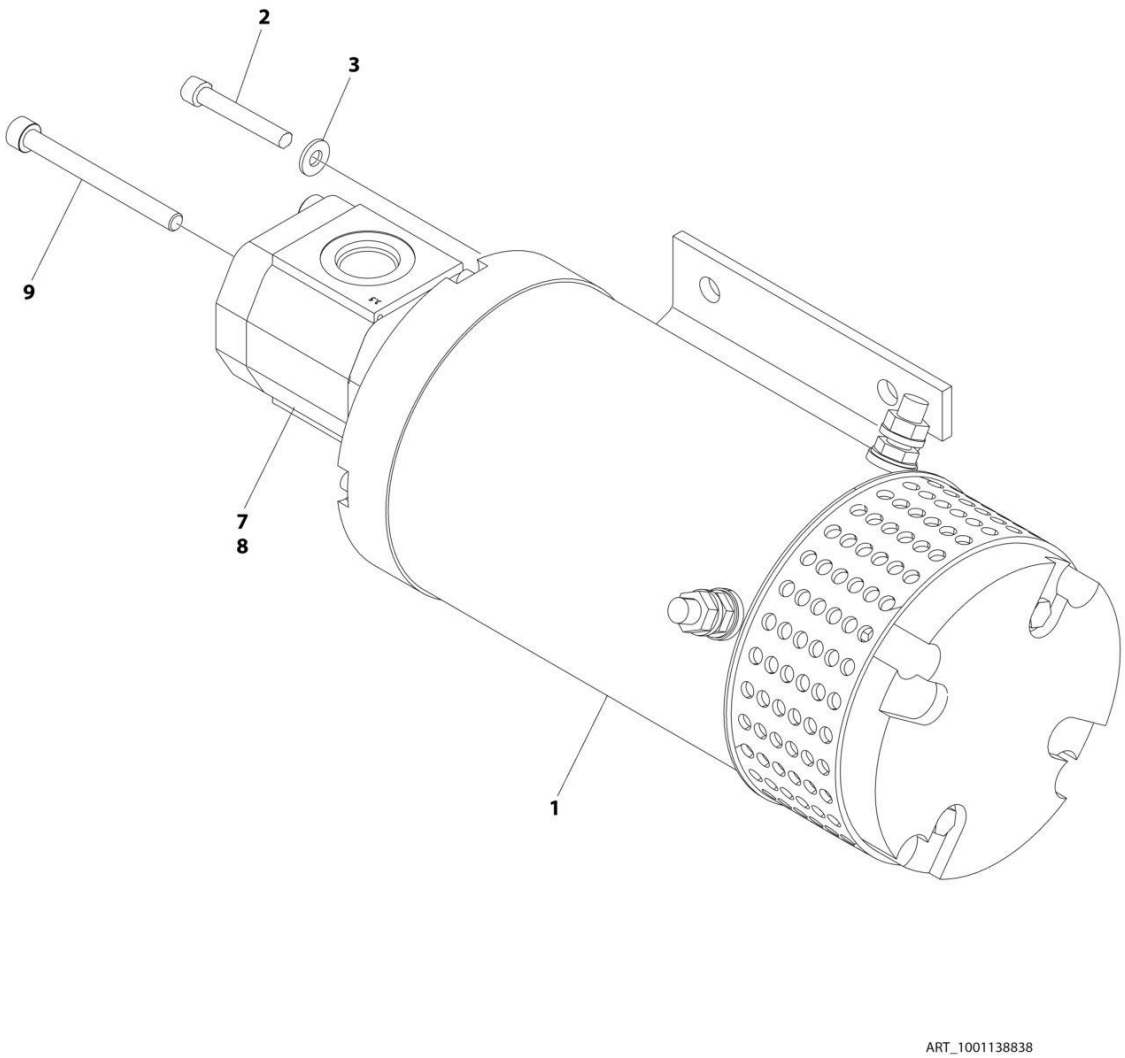

FIGURE 2-6. AUXILIARY PUMP ASSEMBLY (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001138838	Ref	AUXILIARY PUMP ASSEMBLY (WITH COLD WEATHER PLUS PACKAGE)	A
1	70003800	1	Motor	
1	See Note	NSS	Shaft (Note: Not Available for Purchase)	
2	70003801	4	Capscrew 5/16 x 3/4 (Pump Mounting)	
3	70003802	4	Washer 5/16	
4	See Note	NSS	Adapter (Not Shown) (Note: Not Available for Purchase)	
5	See Note	NSS	Pin, Dowel (Not Shown) (Note: Not Available for Purchase)	
6	See Note	NSS	O-Ring (Not Shown) (Note: Not Available for Purchase)	
7	70003803	1	Pump Assembly	
7	See Note	NSS	Seal, Shaft (Note: Not Available for Purchase)	
8	See Note	NSS	Cover, Rear (Note: Not Available for Purchase)	
9	See Note	NSS	Screw M8 x 80 (Note: Not Available for Purchase)	

FIGURE 2-7. SWING DRIVE INSTALLATION

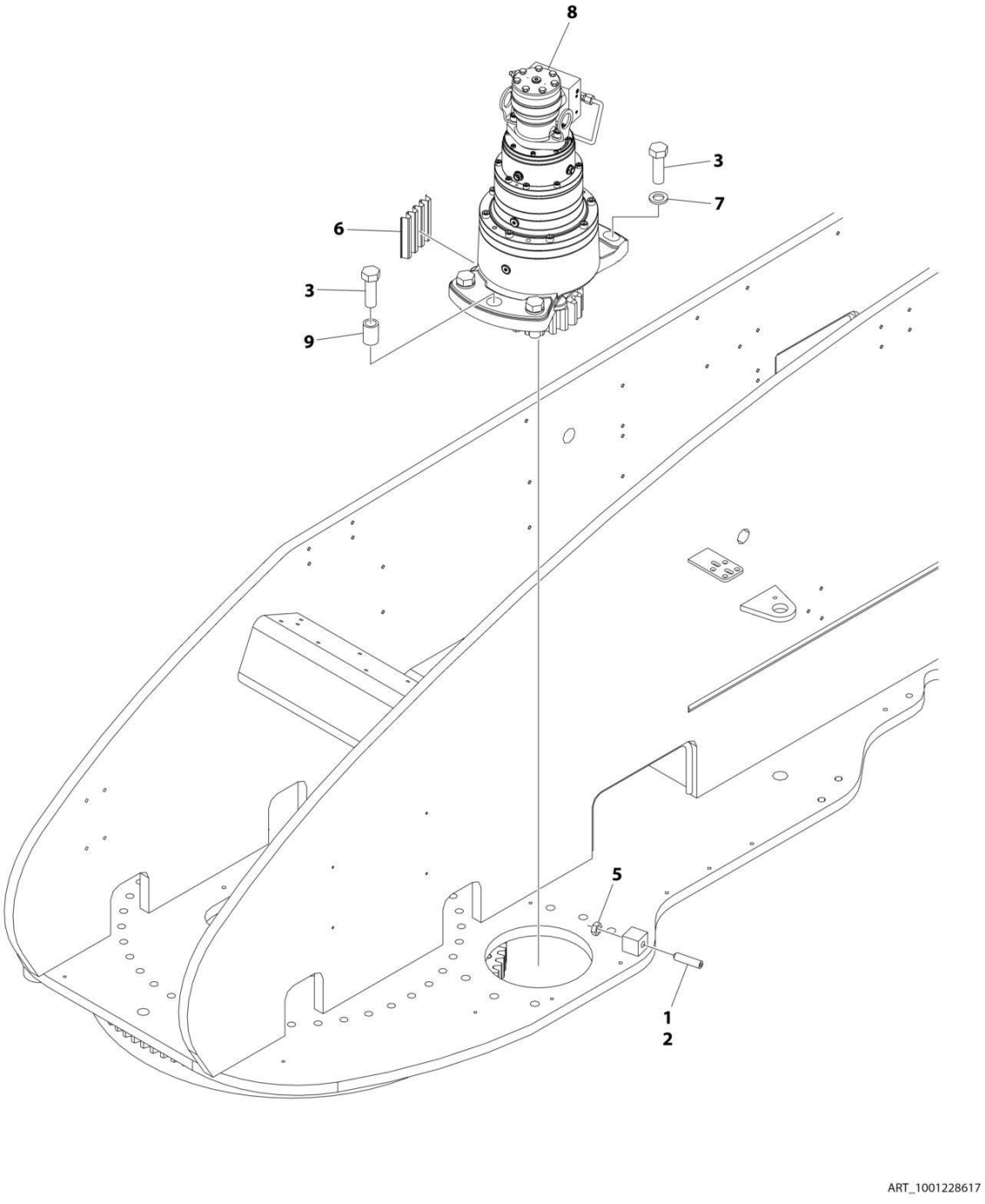

FIGURE 2-7. SWING DRIVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228617	Ref	SWING DRIVE INSTALLATION	E
1	0100019	AR	Compound, Locking	
2	3952020	1	Setscrew 5/8 x 2-1/2	
3	0682422	6	Bolt 7/8 x 2-3/4 Grade 8	
5	3312002	1	Nut 5/8	
6	4071041	1	Shim	
7	4892400	5	Washer 7/8	
8	1001228488	1	Swing Motor/Hub Assembly (See Separate Breakdown in this Section)	
9	1001229058	1	Sleeve	

FIGURE 2-8. TURNTABLE BEARING AND LUBE INSTALLATION

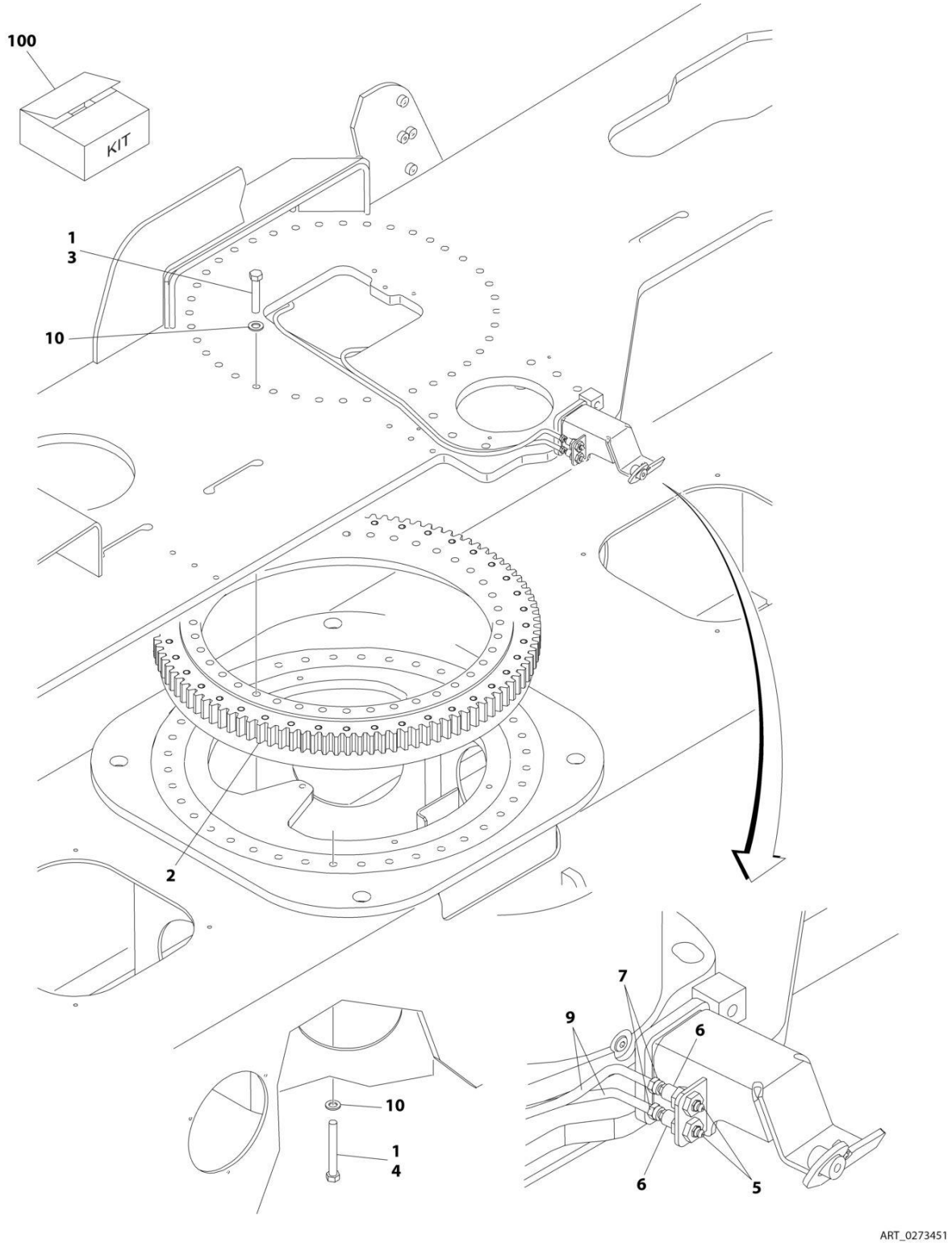

FIGURE 2-8. TURNTABLE BEARING AND LUBE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273451	Ref	TURNTABLE BEARING AND LUBE INSTALLATION	B
1	0100019	AR	Compound, Locking	
2	0440251	1	Bearing, Turntable	
3	0682026	40	Bolt 5/8 x 3-1/4 Grade 8	
4	0682040	40	Bolt 5/8 x 5 Grade 8	
5	2160002	2	Fitting, Grease	
6	2180344	2	Fitting, Bulkhead	
7	2220001	2	Fitting, Straight Swivel	
9	2750528	2	Hose	
10	4892000	80	Washer 5/8	
100	2915072	1	TURNTABLE BEARING KIT	

FIGURE 2-9. TURNTABLE LOCK INSTALLATION

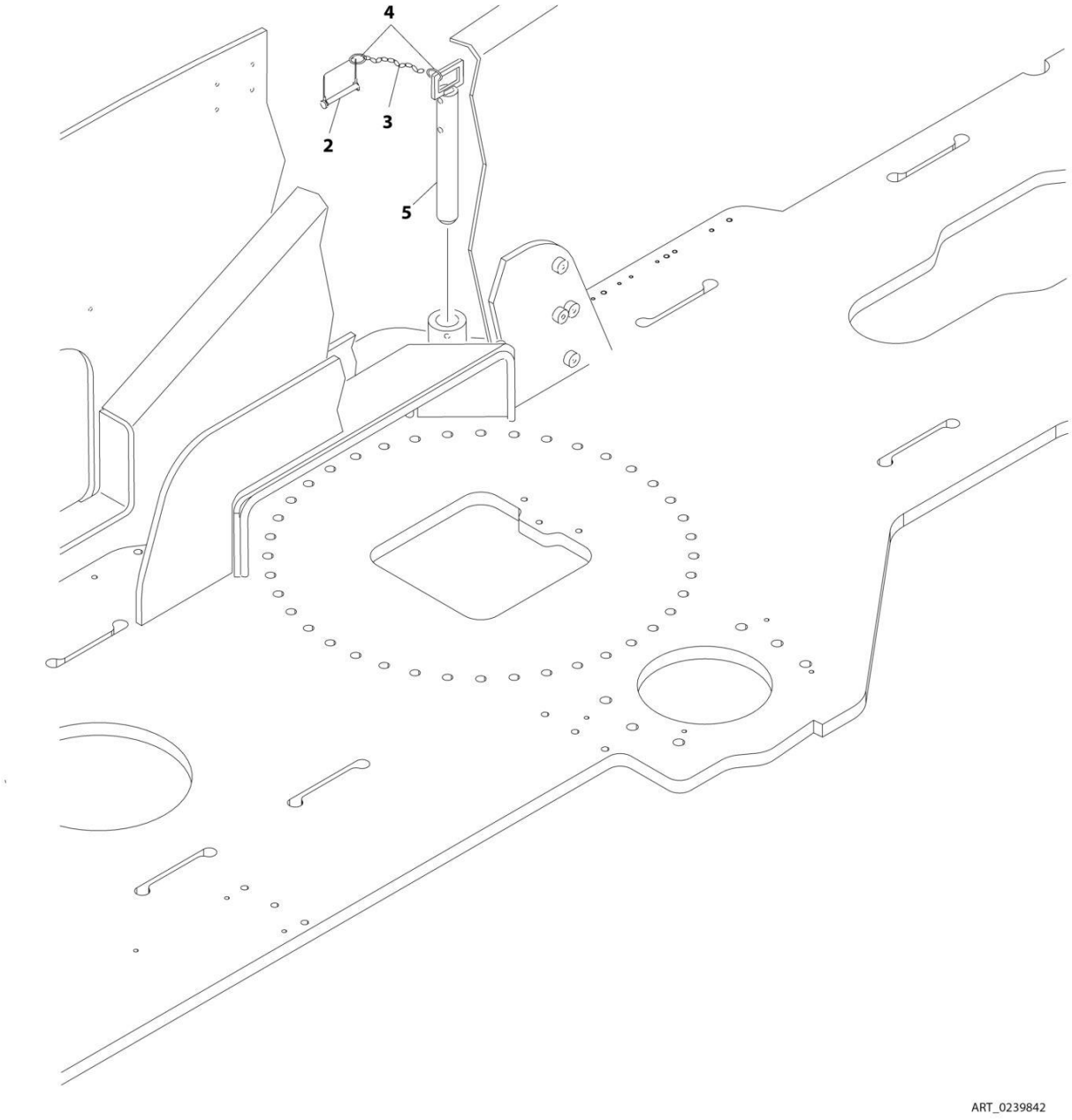

FIGURE 2-9. TURNTABLE LOCK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239842	Ref	TURNTABLE LOCK INSTALLATION	B
2	3421565	1	Pin, Snap	
3	1260017	9 in/23cm	Chain - #3	
4	3760170	2	Ring, Quick Release	
5	3421563	1	Pin, Turntable Lock	

FIGURE 2-10. PINION SHIELD INSTALLATION

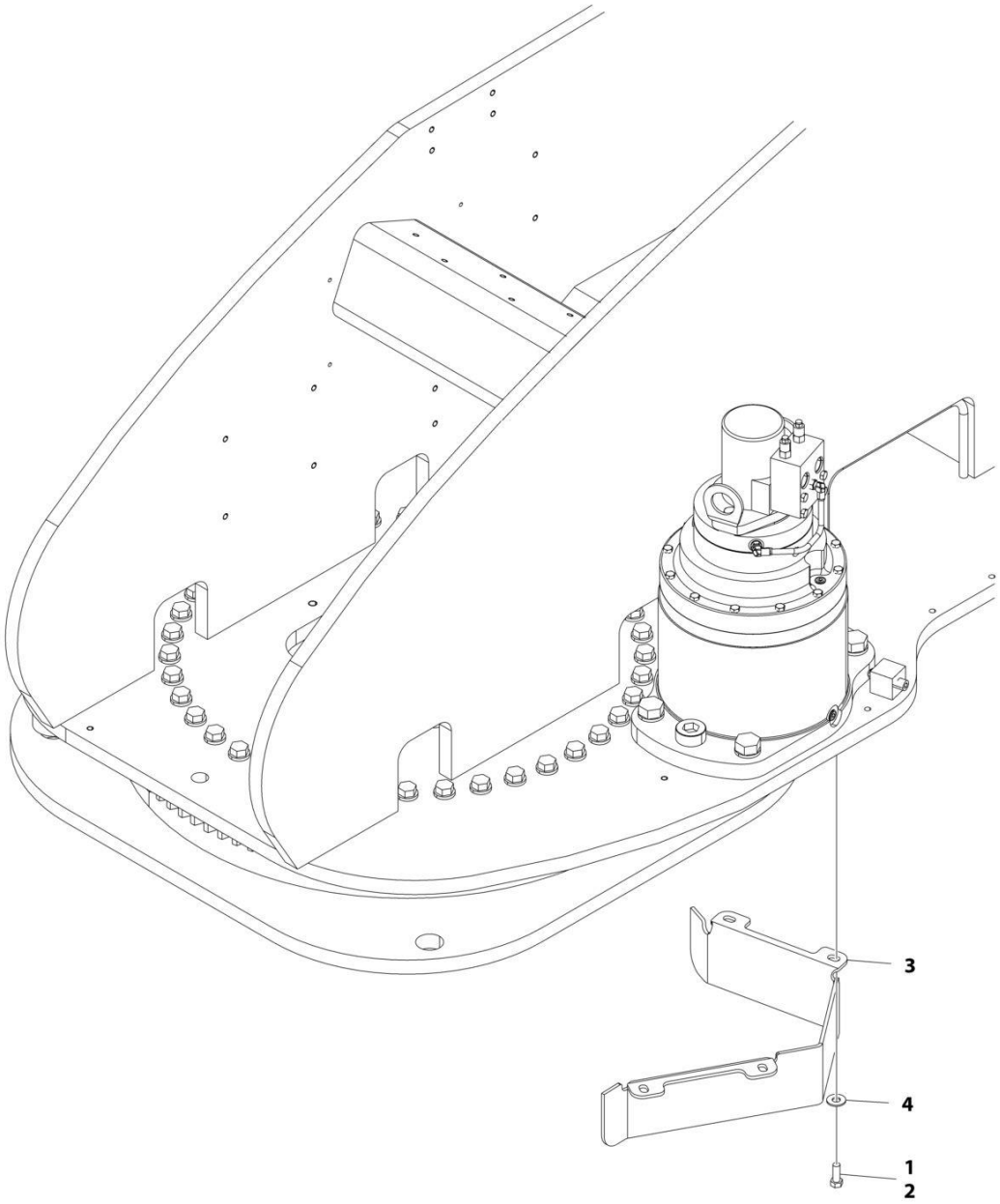

FIGURE 2-10. PINION SHIELD INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0271874	Ref	PINION SHIELD INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641608	4	Bolt 3/8 x 1	
3	3573355	1	Plate, Pinion	
4	4751600	4	Washer 3/8	

FIGURE 2-11. SWING MOTOR/HUB ASSEMBLY

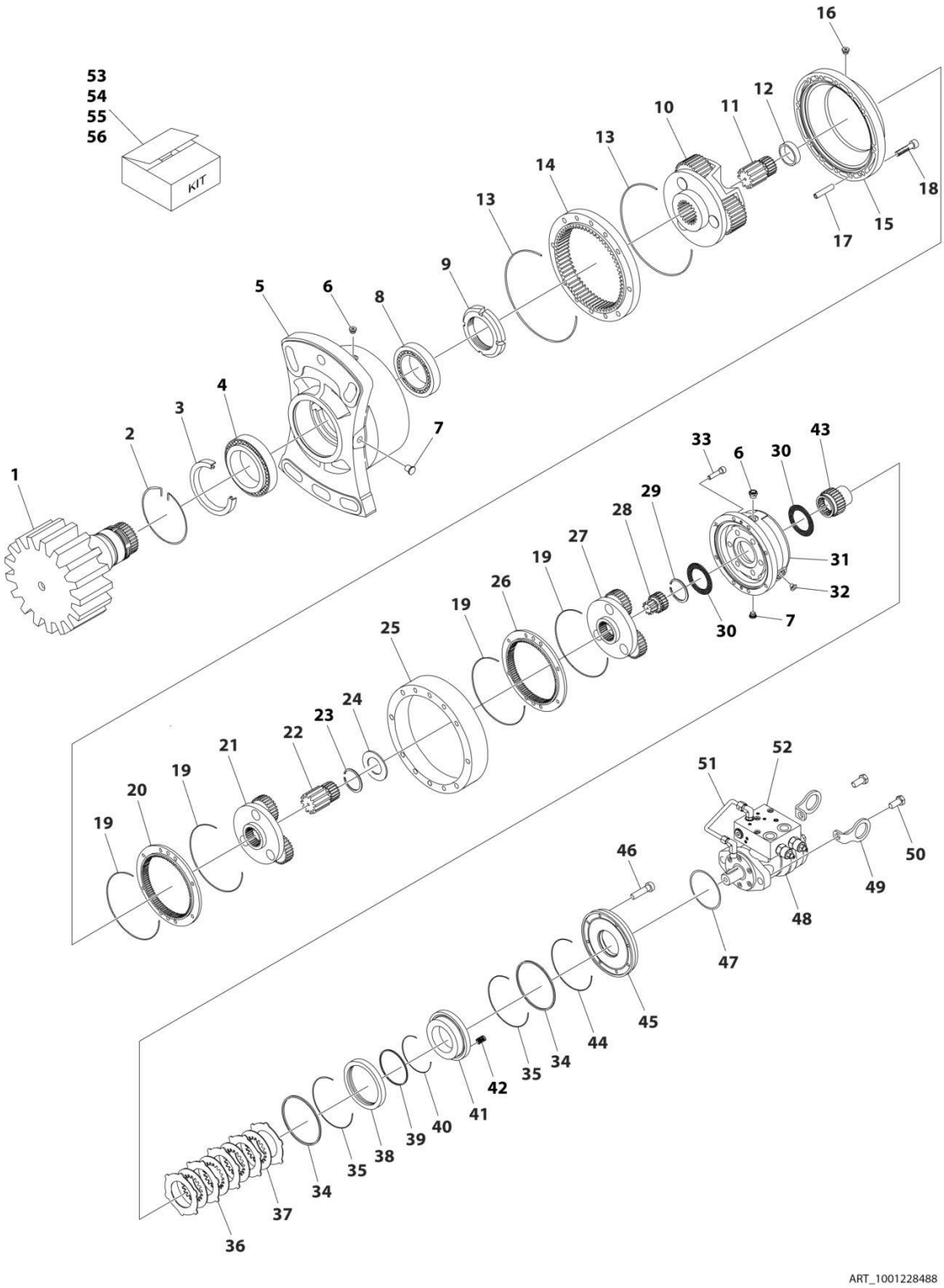

FIGURE 2-11. SWING MOTOR/HUB ASSEMBLY

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	

SECTION 2 - TURNTABLE

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)	

FIGURE 2-12. ROTARY COUPLING AND COLLECTOR RING INSTALLATION

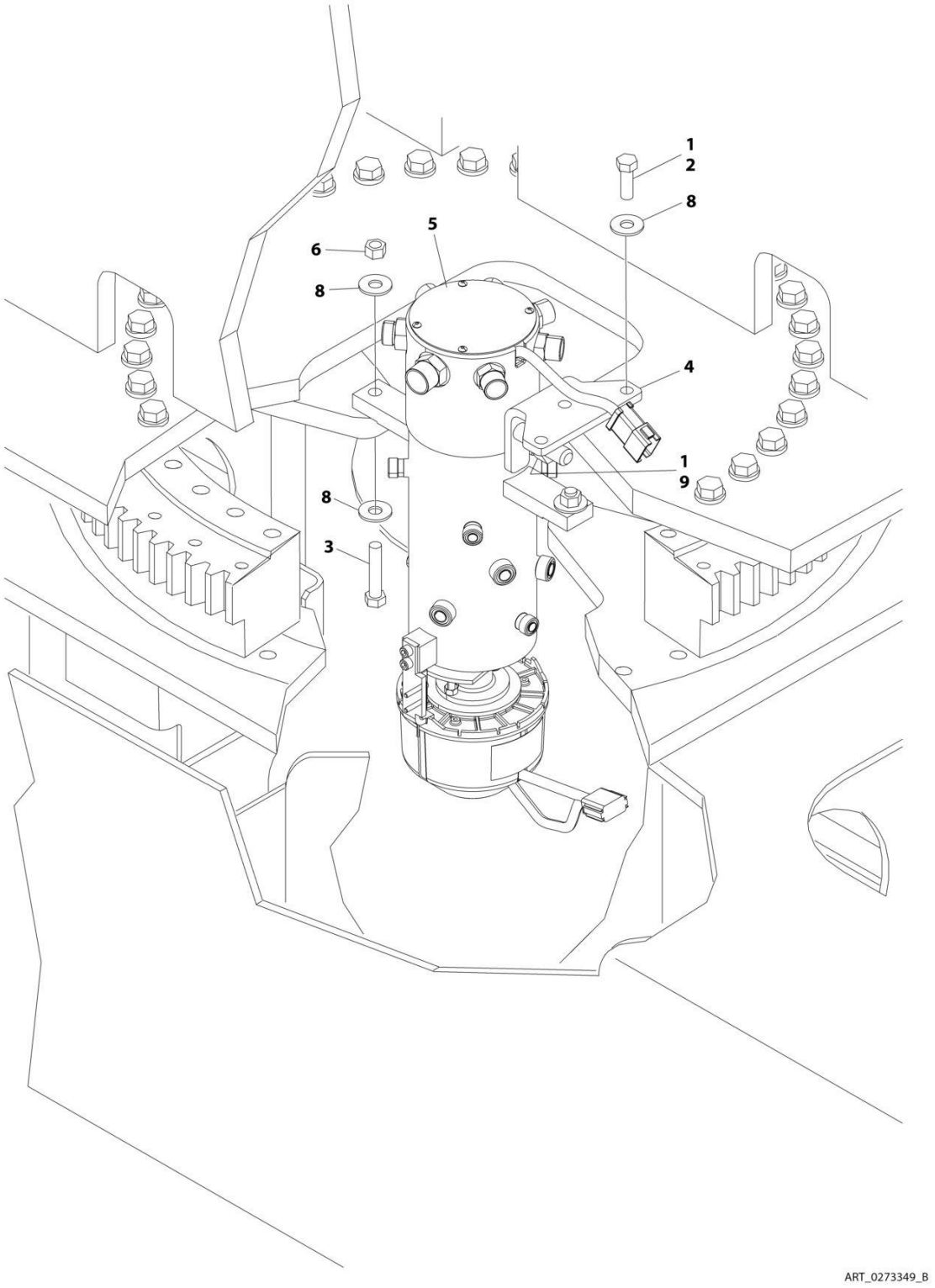

FIGURE 2-12. ROTARY COUPLING AND COLLECTOR RING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273349	Ref	ROTARY COUPLING AND COLLECTOR RING INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0641812	3	Bolt 1/2 x 1-1/2	
3	0641820	2	Bolt 1/2 x 2-1/2	
4	0902915	1	Bracket, Swivel	
5	1001278609	1	Rotary Coupling and Collector Ring Assembly (See Separate Breakdown in this Section)	
6	3311805	2	Nut 1/2	
8	4751800	7	Washer 1/2	
9	3322201	2	Nut 3/4	

FIGURE 2-13. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY

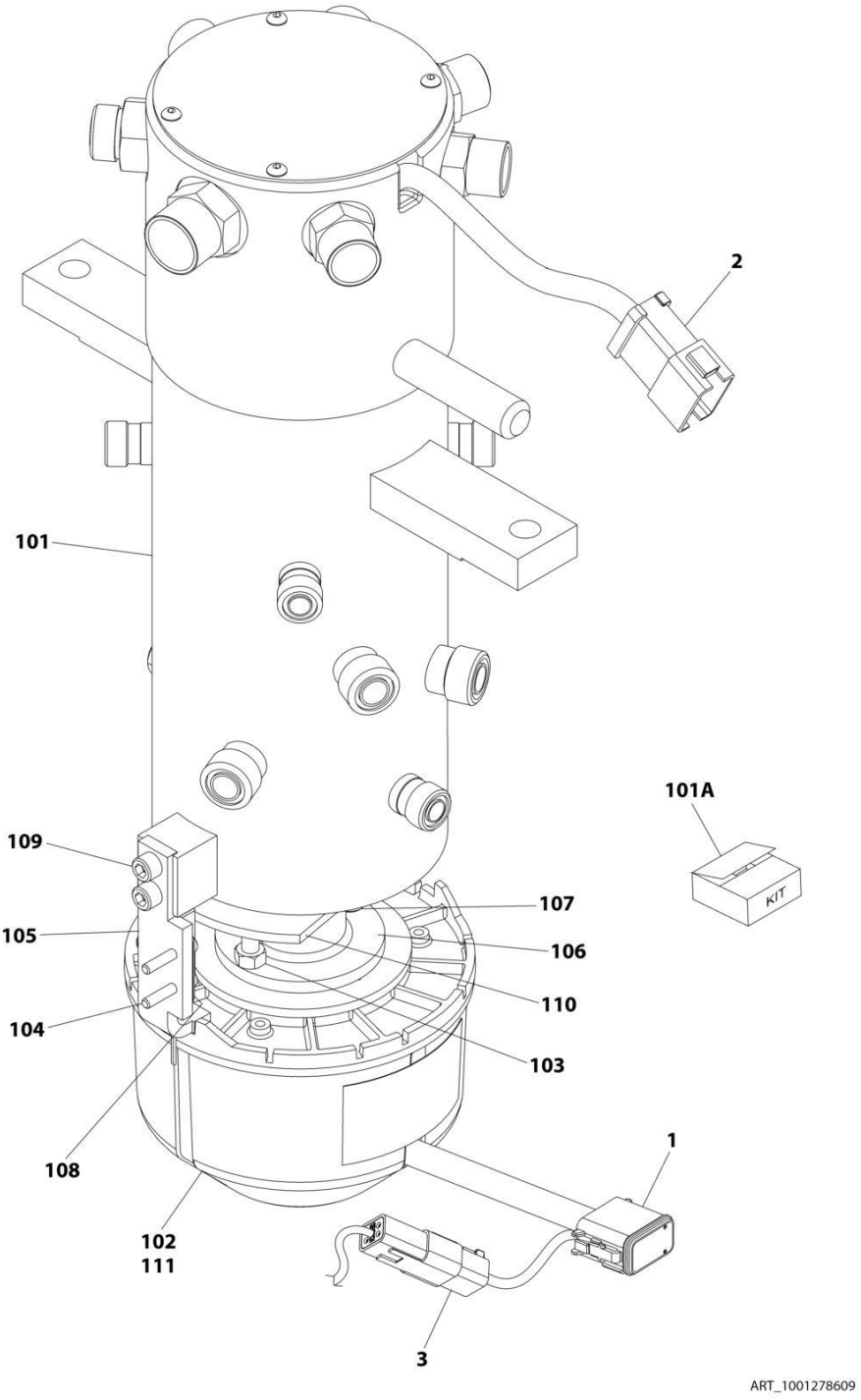

FIGURE 2-13. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001278609	Ref	ROTARY COUPLING AND RING ASSEMBLY	A
1	4460836	1	Connector	
1	4460944	3	Socket (Gold Plated)	
1	4460465	7	Socket (Nickel Plated)	
1	4460466	2	Plug	
1	80604016	1	Wedge Lock	
2	4460950	1	Connector	
2	4460943	3	Pin (Gold Plated)	
2	4460464	5	Pin (Nickel Plated)	
2	4460466	4	Plug	
2	80604015	1	Wedge Lock	
3	4460884	1	Connector	
3	80604021	1	Wedge Lock	
101	70008367	1	Rotary Coupling Assembly	
101A	70001123	1	Seal Kit - 70008367 Coupling	
102	70008359	1	Collector Ring Assembly	
103	70008360	2	Nut 5/16	
104	70007510	2	Capscrew #10 x 1/2	
105	70008361	1	Arm	
106	70008362	1	Adaptor, Spool	
107	70008363	2	Bolt 5/16 x 1	
108	70008364	1	Sensor	
109	3931512	2	Capscrew 5/16 x 3/4	
110	70008365	1	Plate, Cam	
111	0100048	AR	Silicone	

FIGURE 2-14. TANK INSTALLATION

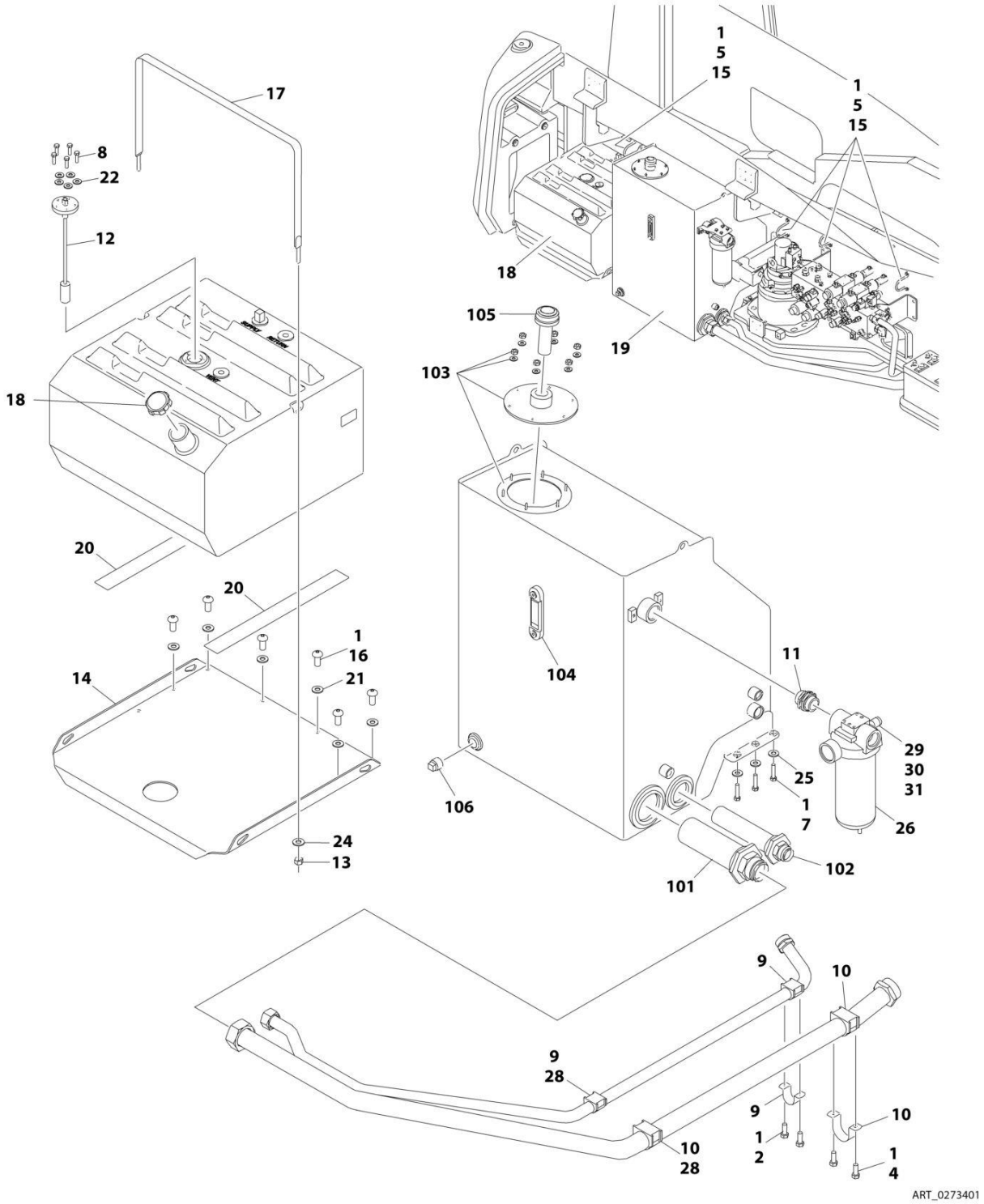

FIGURE 2-14. TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273401	Ref	TANK INSTALLATION	G
1	0100011	AR	Compound, Locking	
2	0641408	2	Bolt 1/4 x 1	
4	0641508	2	Bolt 5/16 x 1	
5	0641604	12	Bolt 3/8 x 1/2	
7	0641615	6	Bolt 3/8 x 1-7/8	
8	0731007	5	Screw, Machine #10 x 7/8	
9	1320322	2	Clamp	
10	1320323	2	Clamp	
11	2220893	1	Fitting, Adapter	
12	2420191	1	Gauge, Fuel	
12	3960525	1	Gasket	
13	3311601	2	Nut 3/8	
14	3574494	1	Tray	
15	3841340	8	Loop, Hose	
16	3900232	6	Screw 3/8 x 1-1/4	
17	4240139	1	Strap, Tank	
18	1001160567	1	Tank, Fuel	
18	70004414	1	Cap	
18	7020043	1	Tube, Pick up	
19	4400462	1	Tank, Hydraulic Oil (See Items 101-106 for Breakdown)	
20	4420038	40 in/1m	Tape	
21	4711600	6	Washer 3/8	
22	4751000	5	Washer #10	
24	4751600	2	Washer 3/8	
25	4891600	6	Washer 3/8	
26	2120167	1	Filter, Return	
26	2120168	1	Element, Filter	
26	7020021	1	Gauge, Pressure	
28	0100081	AR	Loctite #454	
29	0100079	AR	Sealant, Thread	
30	1001119455	1	Fitting, Diagnostic	
31	1001119119	1	Fitting, Adapter	
	4400462	Ref	HYDRAULIC OIL TANK ASSEMBLY	E
101	7026599	1	Strainer, Suction	
102	7026600	1	Strainer, Suction	
103	7024439	1	Cover	
103	7024440	1	Gasket, Cover	
104	7024441	1	Gauge, Sight	
105	7024444	1	Cap, Breather	
105	7024443	1	Neck Assembly	
105	7024445	1	Strainer	
106	7024446	2	Plug, Magnetic	

FIGURE 2-15. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (OPTIONAL)

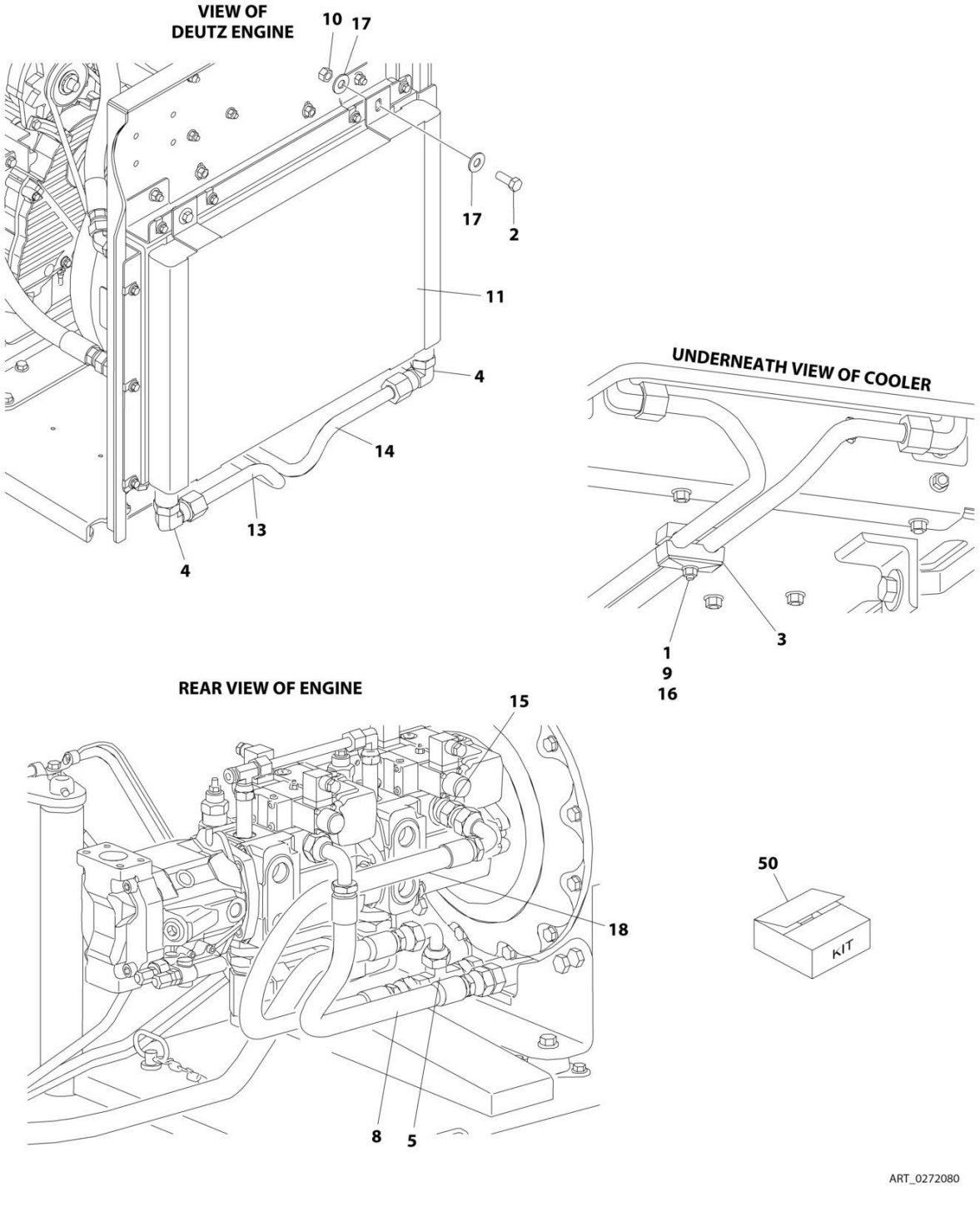

FIGURE 2-15. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272080	Ref	HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMPS (OPTIONAL)	B
		Ref	Note: See Engine Installation for Engine Oil Cooler.	
1	0641520	2	Bolt 5/16 x 2-1/2	
2	0641608	4	Bolt 3/8 x 1	
3	1320162	2	Clamp, Hose	
4	2131212	2	Fitting, Elbow	
5	2170712	1	Fitting, Tee	
8	2753778	1	Hose	
9	3311505	2	Nut 5/16	
10	3311605	4	Nut 3/8	
11	3620034	1	Cooler, Hydraulic Oil	
13	4568426	1	Tube	
14	4568427	1	Tube	
15	4641247	1	Valve, Check	
16	4711500	4	Washer 5/16	
17	4751600	8	Washer 3/8	
18	2753843	1	Hose	
50	1001120564	1	Oil Cooler Add-on Kit (Includes Items 1-18)	

FIGURE 2-16. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (OPTIONAL)

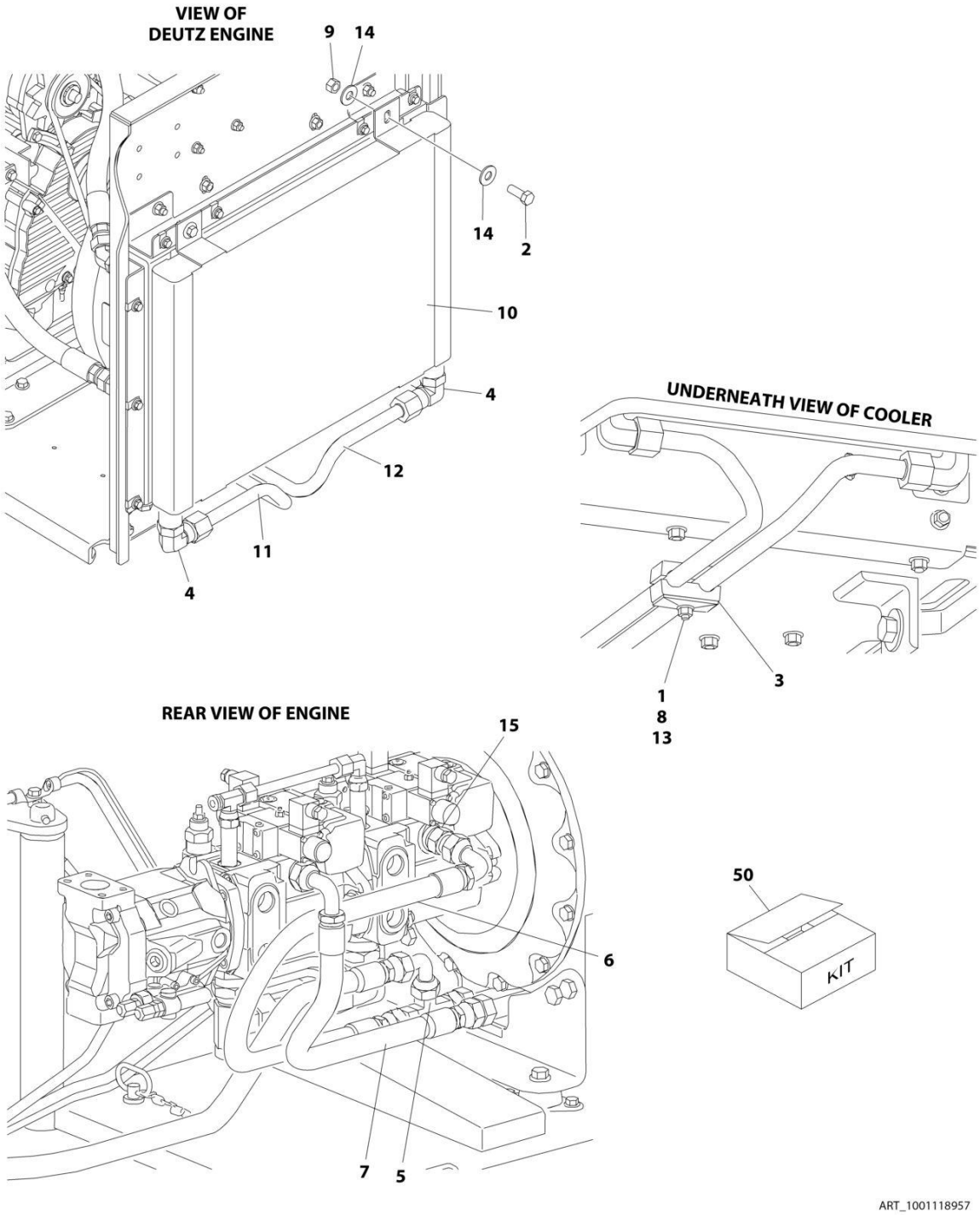

FIGURE 2-16. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001118957	Ref	HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMPS (OPTIONAL)	B
		Ref	Note: See Engine Installation for Engine Oil Cooler.	
1	0641520	2	Bolt 5/16 x 2-1/2	
2	0641608	4	Bolt 3/8 x 1	
3	1320162	2	Clamp, Hose	
4	2131212	2	Fitting, Elbow	
5	2170712	1	Fitting, Tee	
6	2753778	1	Hose	
7	2753999	1	Hose	
8	3311505	2	Nut 5/16	
9	3311605	4	Nut 3/8	
10	3620034	1	Cooler, Hydraulic Oil	
11	4568426	1	Tube	
12	4568427	1	Tube	
13	4711500	4	Washer 5/16	
14	4751600	8	Washer 3/8	
15	1001109677	1	Valve, Check	
50	1001120564	1	Oil Cooler Add-on Kit Options (Includes Items 1-15):	

FIGURE 2-17. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES REXROTH PUMP (OPTIONAL)

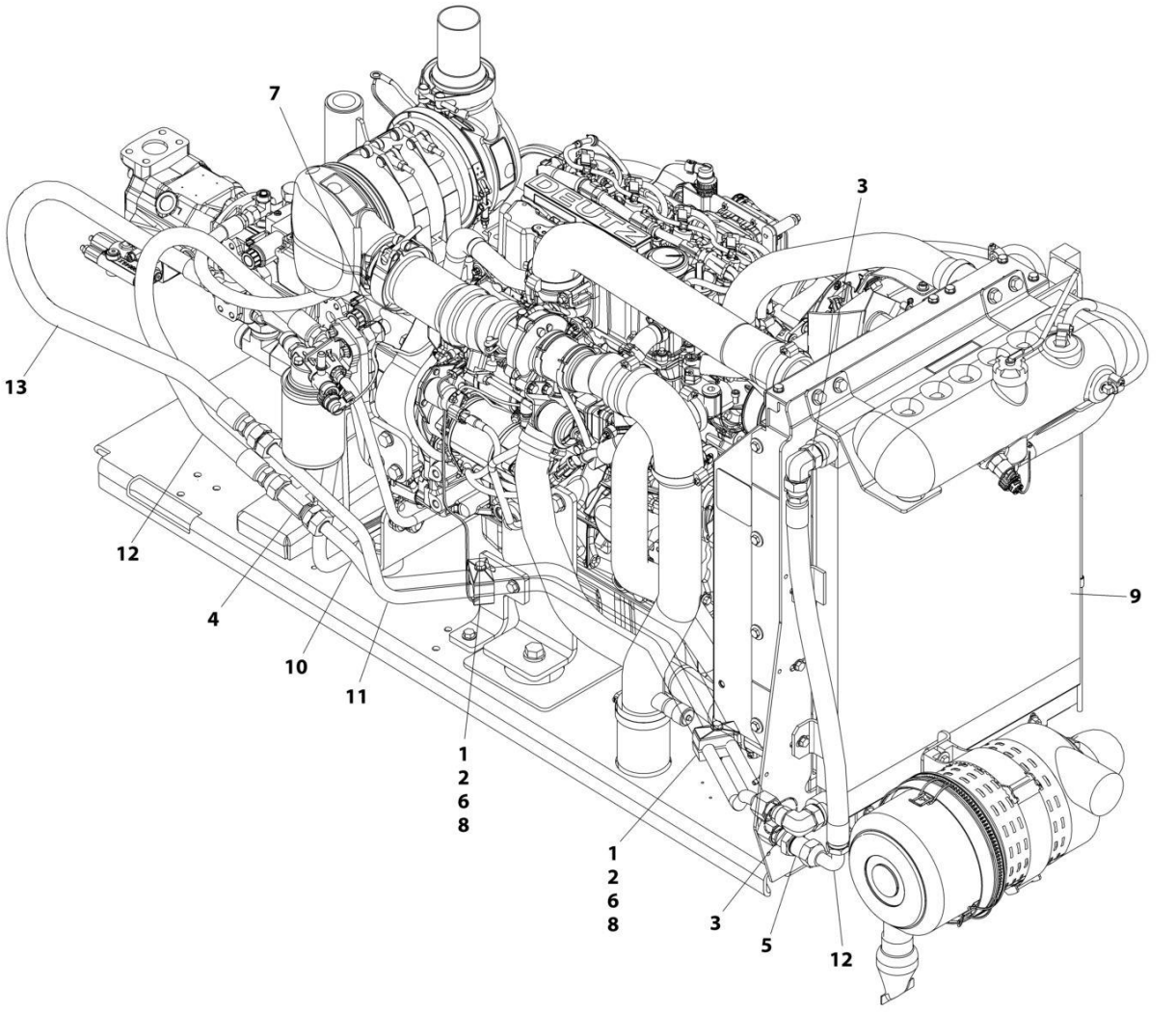

FIGURE 2-17. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES REXROTH PUMP (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139494	Ref	HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES WITH REXROTH PUMPS (OPTIONAL)	F
		Ref	Note: See Engine Installation for Engine Oil Cooler.	
1	0641520	2	Bolt 5/16 x 2-1/2	
2	1320162	2	Clamp, Hose	
3	2131212	2	Fitting, 90	
4	2170712	1	Fitting, Tee	
5	2171112	1	Fitting, Straight	
6	3311505	2	Nut 5/16	
7	4641247	1	Valve	
8	4711500	4	Washer 5/16	
9	1001256859	1	Cooler, Hydraulic Oil	
10	1001139665	1	Tube	
11	1001139666	1	Tube	
12	1001143087	2	Hose	
13	1001143123	1	Hose	

FIGURE 2-18. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES PMP PUMP (OPTIONAL)

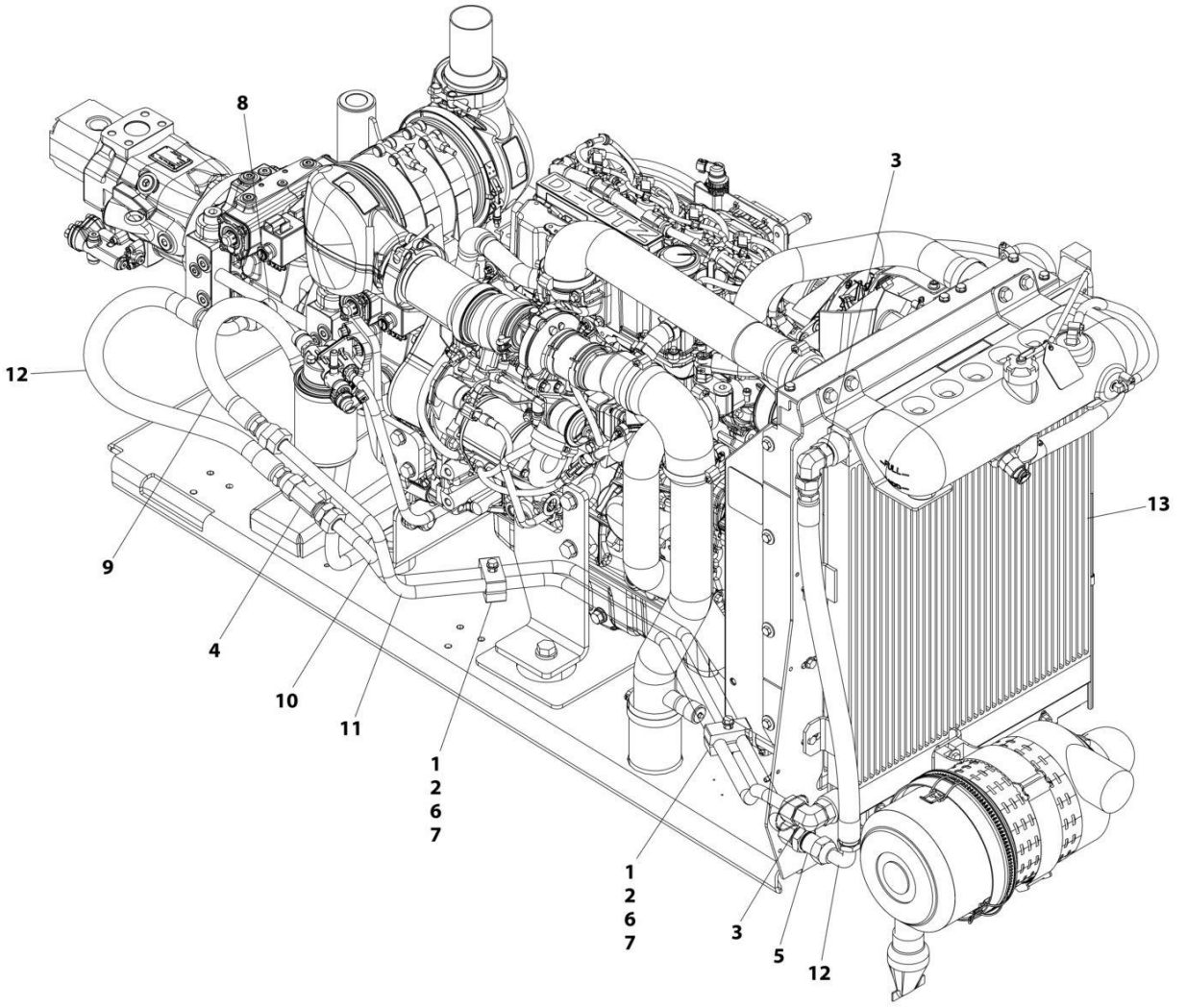

FIGURE 2-18. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES PMP PUMP (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001297305	Ref	HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES WITH PMP PUMPS	A
1	0641520	2	Bolt 5/16 x 2-1/2	
2	1320162	2	Clamp	
3	2131212	2	Fitting, 90 ORFS/ORB	
4	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
5	2171112	1	Fitting, Straight ORFS/ORFS	
6	3311505	2	Nut 5/16	
7	4711500	4	Washer 5/16	
8	1001109677	1	Valve	
9	1001113006	1	Hose	
10	1001139665	1	Tube	
11	1001139666	1	Tube	
12	1001143087	2	Hose	
13	1001256859	1	Cooler, Hydraulic Oil	

FIGURE 2-19. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH PMP PUMP (OPTIONAL)

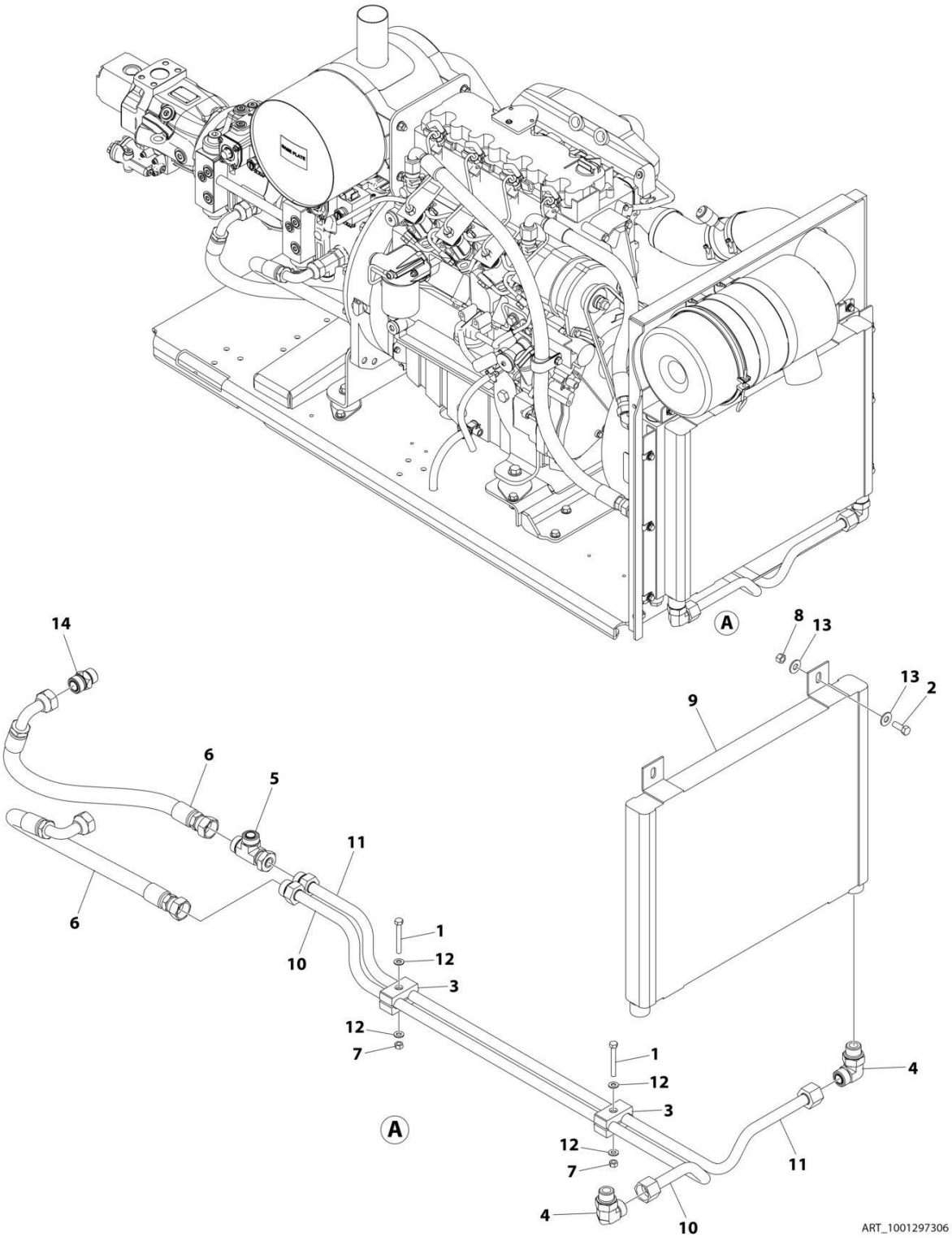

FIGURE 2-19. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TD2011 ENGINES WITH PMP PUMP (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001297306	Ref	HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES WITH PMP PUMPS - TANDEM	A
1	0641520	2	Bolt 5/16 x 2-1/2	
2	0641608	4	Bolt 3/8 x 1	
3	1320162	2	Clamp	
4	2131212	2	Fitting 90 ORFS/ORB	
5	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
6	2753778	1	Hose	
7	3311505	2	Nut 5/16	
8	3311605	4	Nut 3/8	
9	3620034	1	Cooler, Hydraulic Oil	
10	4568426	1	Tube	
11	4568427	1	Tube	
12	4711500	4	Washer 5/16	
13	4751600	8	Washer 3/8	
14	1001109677	1	Valve	

FIGURE 2-20. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES WITH SAUER PUMP (OPTIONAL)

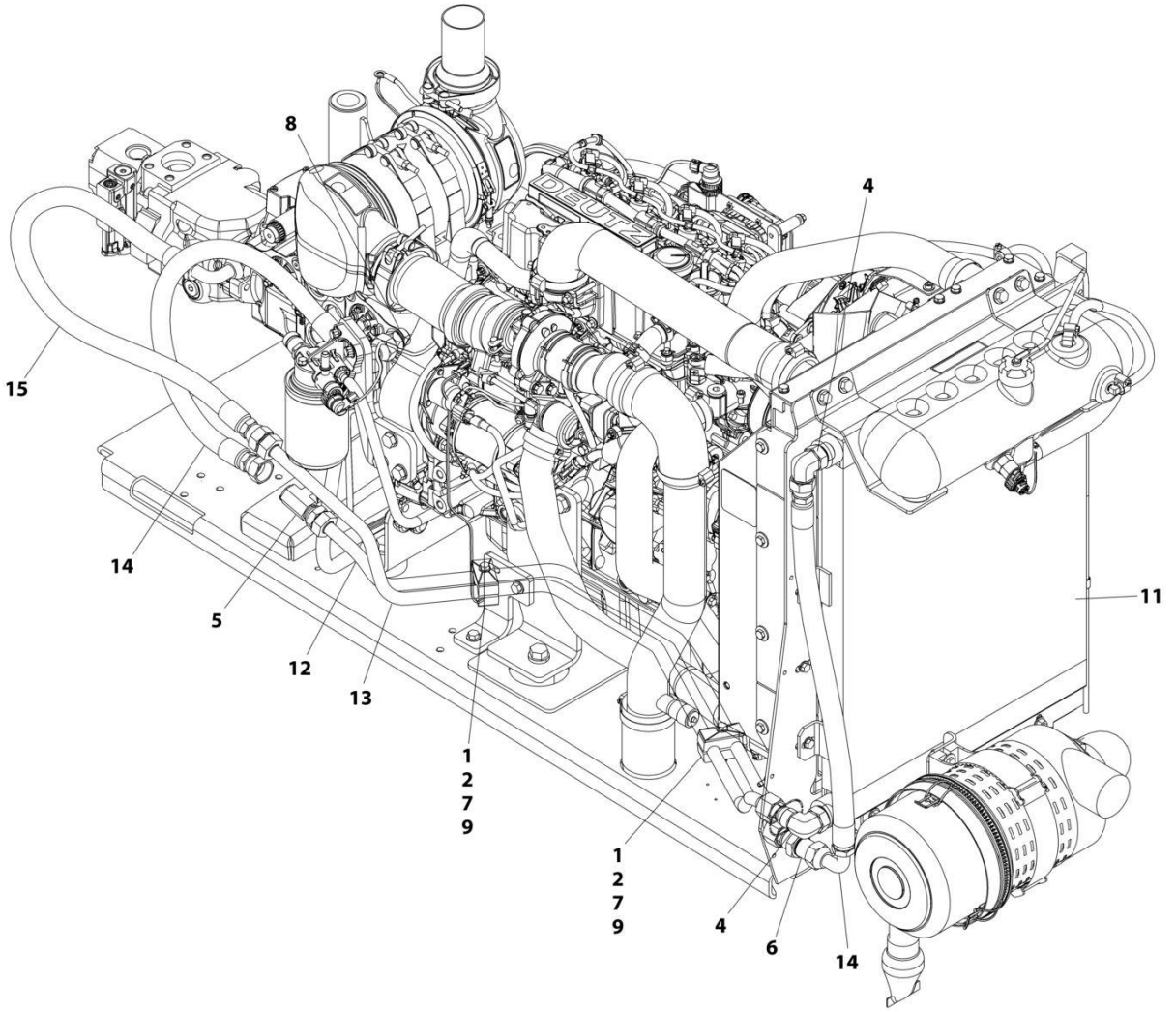

FIGURE 2-20. HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES WITH SAUER PUMP (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139492	Ref	HYDRAULIC OIL COOLER INSTALLATION - DEUTZ TCD2.9L4 ENGINES WITH SAUER PUMPS (OPTIONAL)	F
		Ref	Note: See Engine Installation for Engine Oil Cooler	
1	0641520	2	Bolt 5/16 x 2-1/2	
2	1320162	2	Clamp, Hose	
4	2131212	2	Fitting, 90	
5	2170712	1	Fitting, Tee	
6	2171112	1	Fitting, Straight	
7	3311505	2	Nut 5/16	
8	1001109677	1	Valve	
9	4711500	4	Washer 5/16	
11	1001256859	1	Cooler, Hydraulic Oil	
12	1001139665	1	Tube	
13	1001139666	1	Tube	
14	1001143087	2	Hose	
15	1001143123	1	Hose	

FIGURE 2-21. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (WITHOUT TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

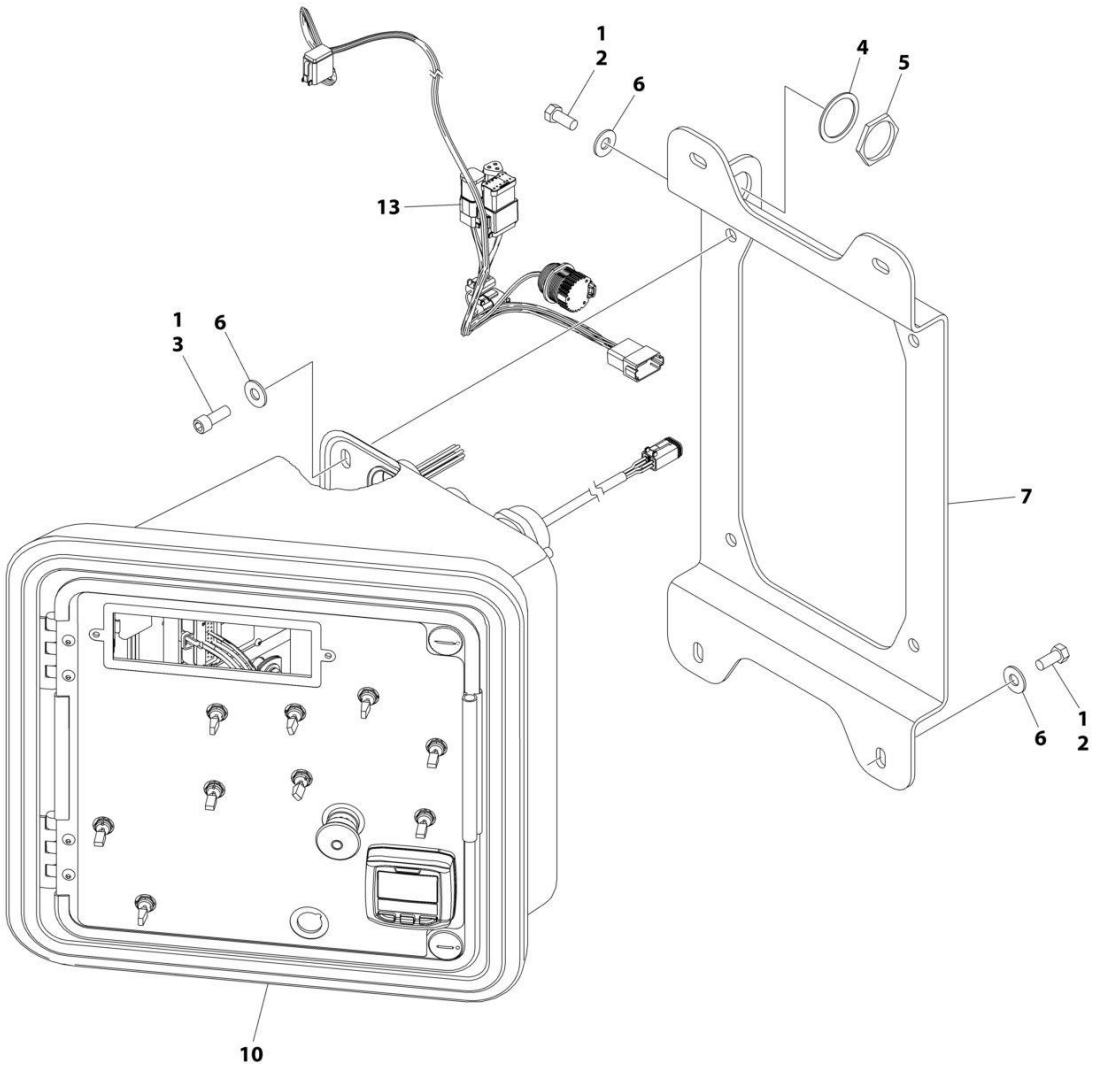

FIGURE 2-21. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (WITHOUT TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243544	Ref	GROUND CONTROL BOX INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119456	2	Harness, Pump Adapter (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
9	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
10	1001266935	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
11	4240017	AR	Tie-Strap (Not Shown)	
12	4460234	AR	Mount, Tie-Strap (Not Shown)	
13	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-22. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (WITH TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

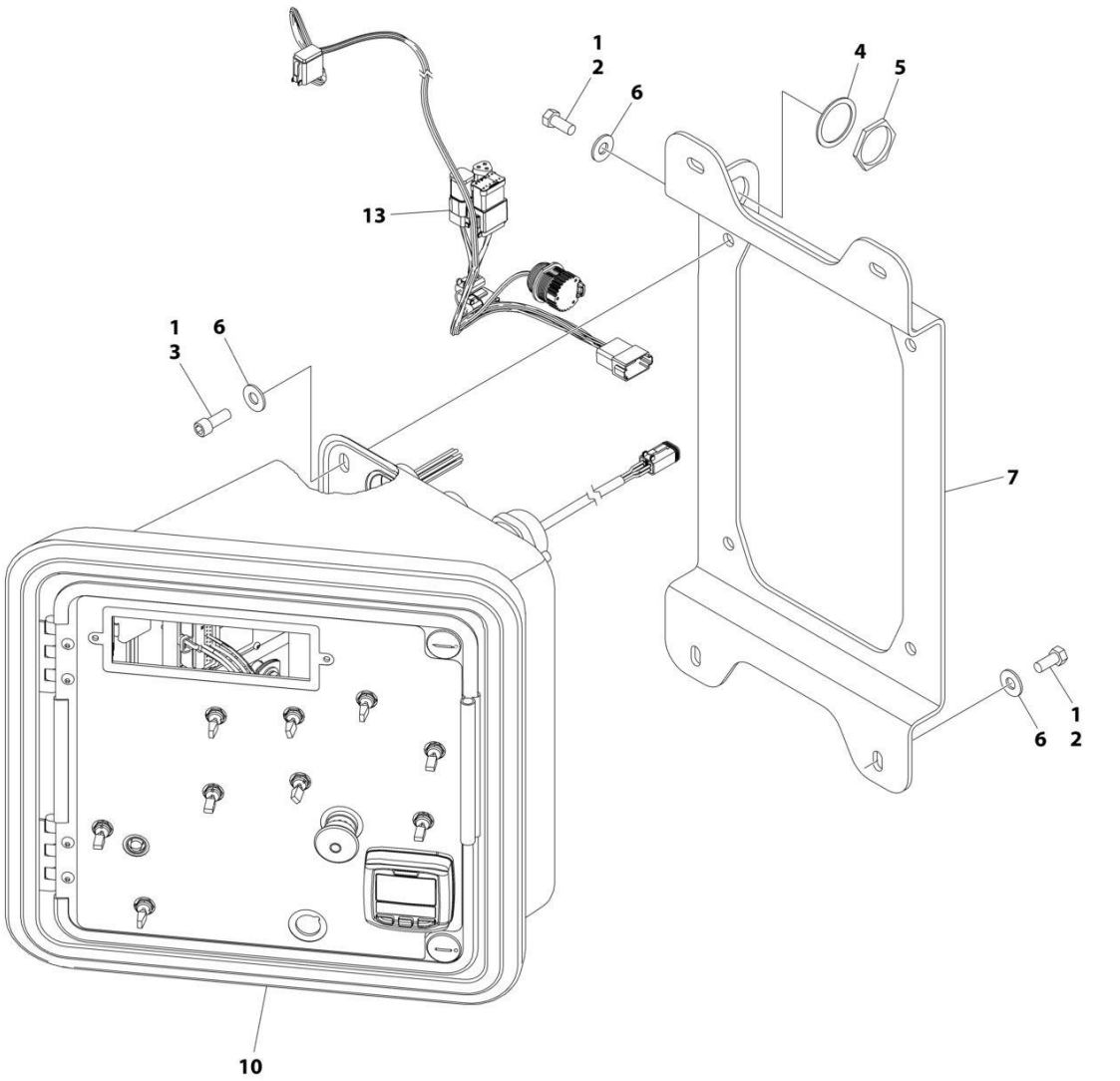

FIGURE 2-22. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (WITH TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267654	Ref	GROUND CONTROL BOX INSTALLATION	C
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119456	2	Harness, Pump Adapter (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
9	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
10	1001265867	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
11	4240017	AR	Tie-Strap (Not Shown)	
12	4460234	AR	Mount, Tie-Strap (Not Shown)	
13	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-23. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (WITHOUT TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

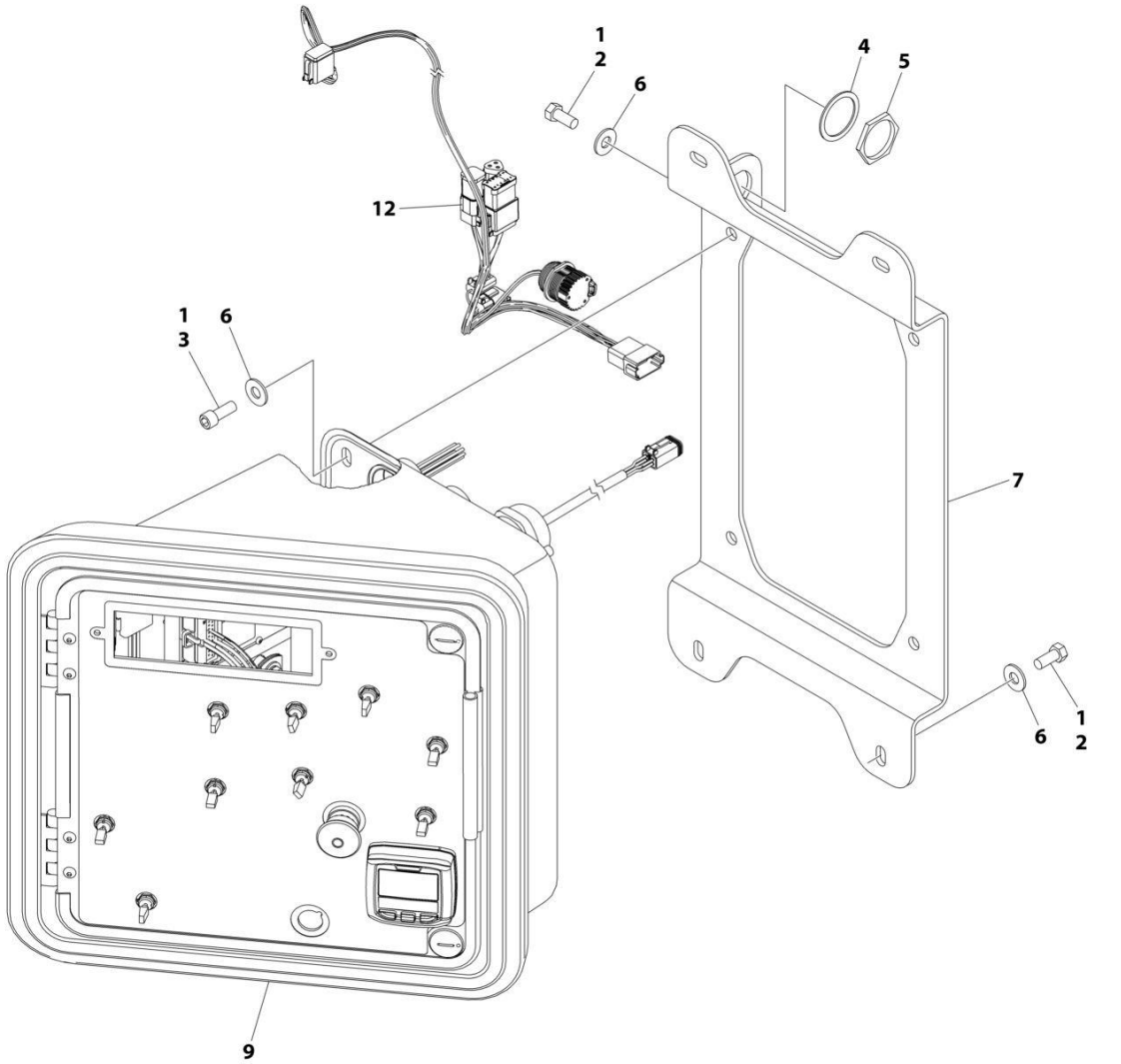

FIGURE 2-23. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (WITHOUT TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243583	Ref	GROUND CONTROL BOX INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in this Section)	
9	1001266935	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
10	4240017	AR	Tie-Strap (Not Shown)	
11	4460234	AR	Mount, Tie-Strap (Not Shown)	
12	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-24. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (WITH TOWER STOW) (CE & UK CA SPECS) (LRC)

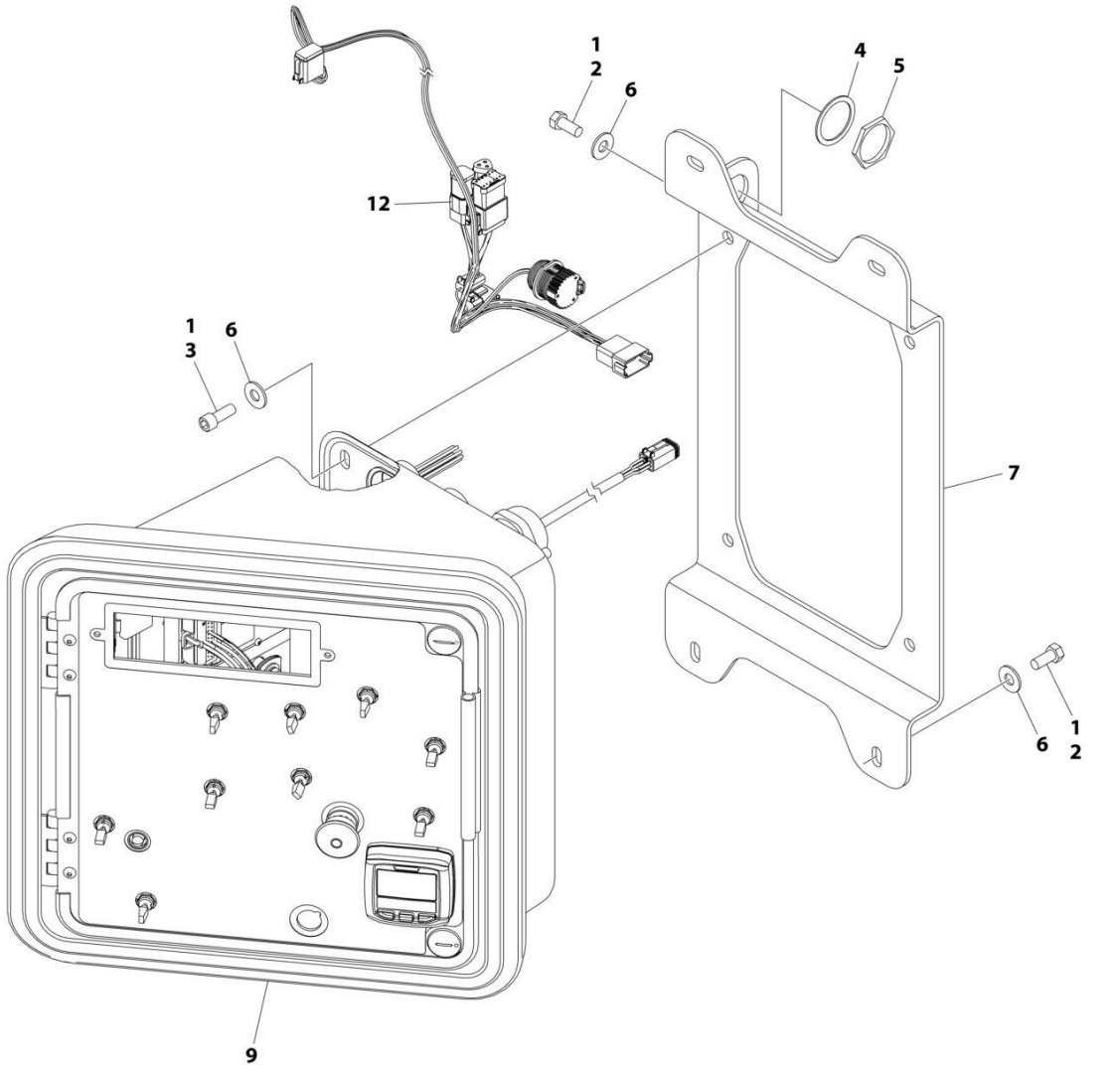

FIGURE 2-24. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (WITH TOWER STOW) (CE & UK CA SPECS) (LRC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267655	Ref	GROUND CONTROL BOX INSTALLATION	C
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
9	1001265867	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
10	4240017	AR	Tie-Strap (Not Shown)	
11	4460234	AR	Mount, Tie-Strap (Not Shown)	
12	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-25. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMPS (WITHOUT TOWER STOW) (CE & UK CA SPECS) (LRC)

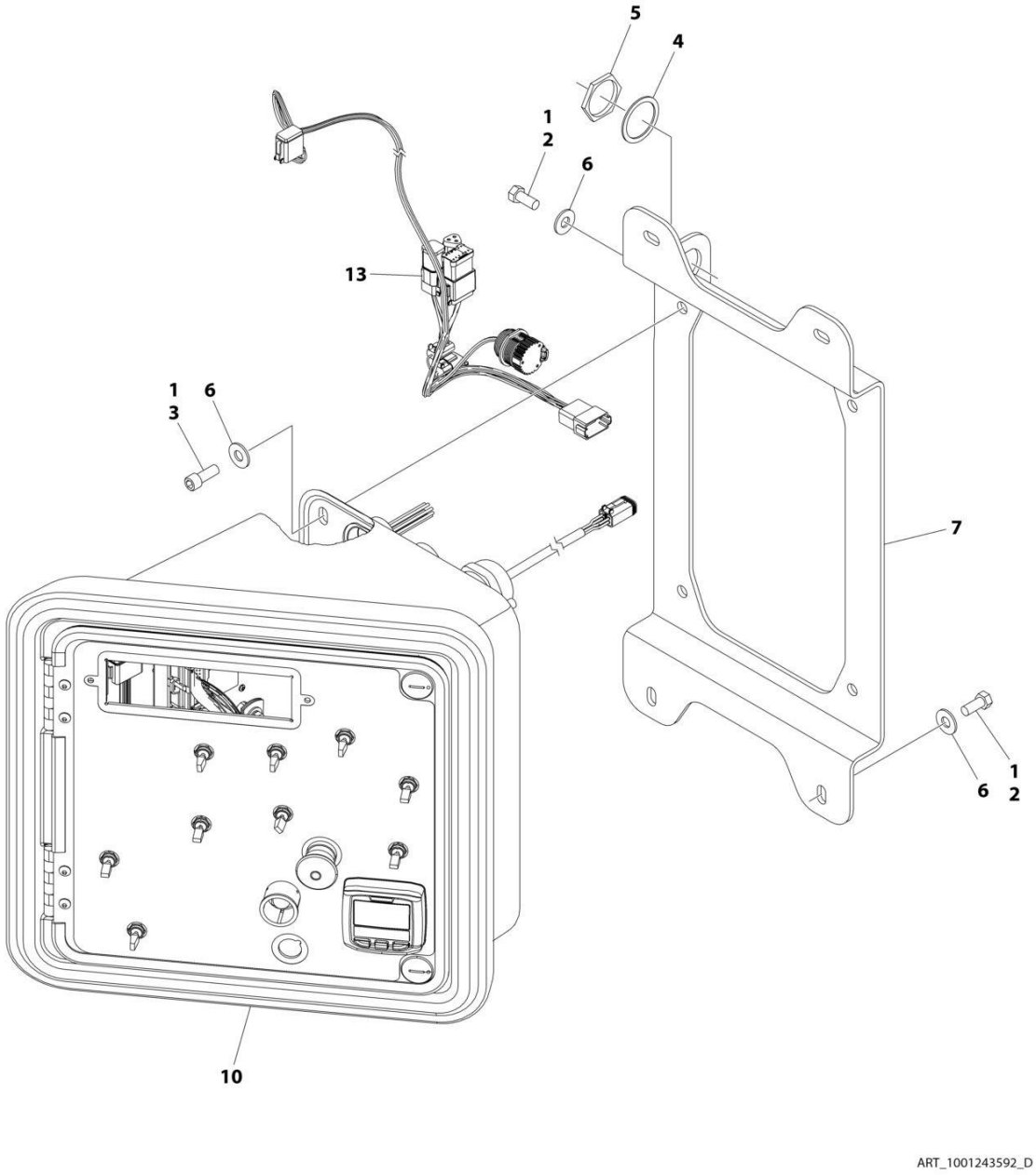

FIGURE 2-25. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMPS (WITHOUT TOWER STOW) (CE & UK CA SPECS) (LRC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243592	Ref	GROUND CONTROL BOX INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119456	2	Harness, Pump Adapter (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
9	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in this Section)	
10	1001266936	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
11	4240017	AR	Tie-Strap (Not Shown)	
12	4460234	AR	Mount, Tie-Strap (Not Shown)	
13	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-26. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (WITH TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

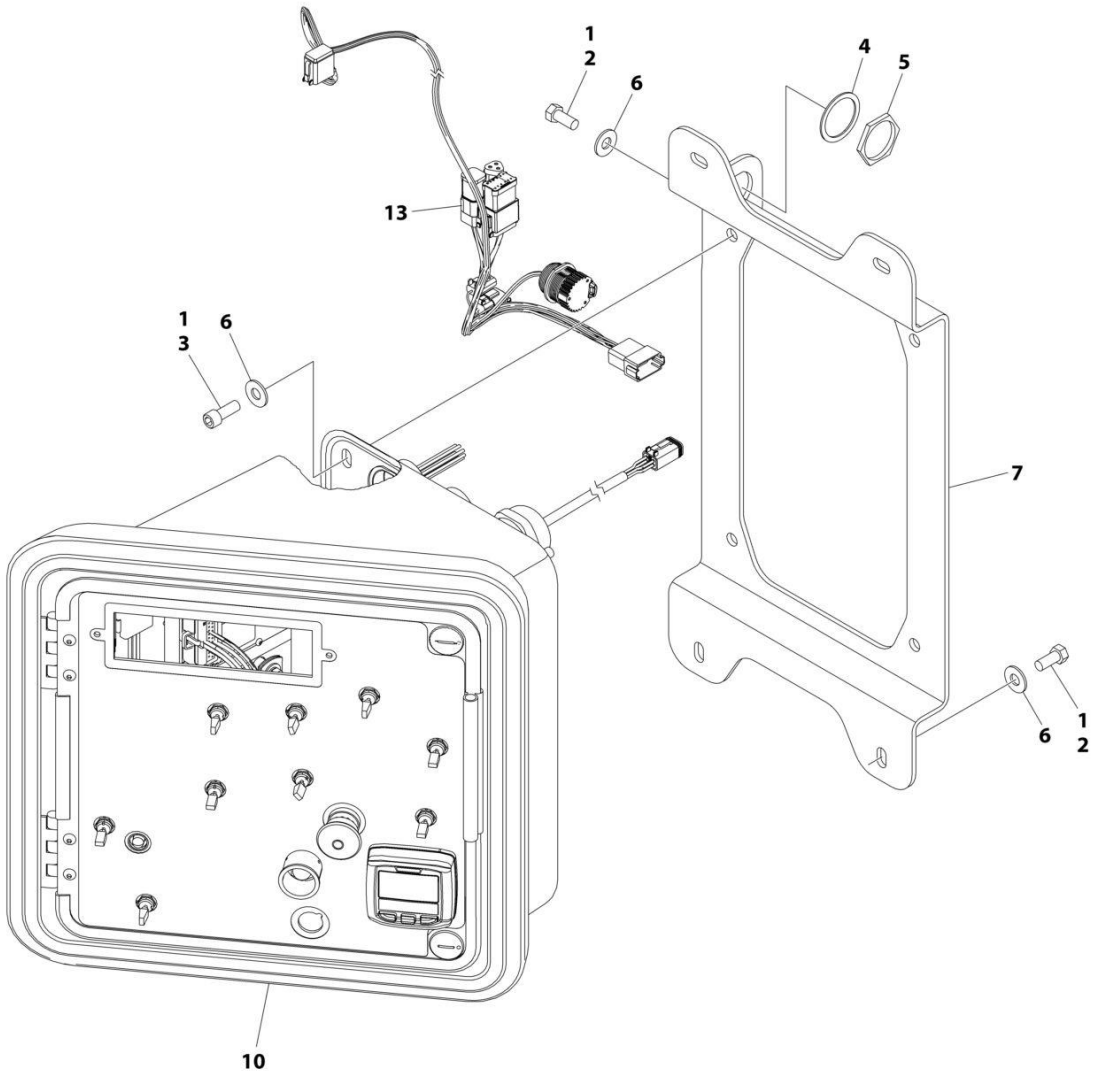

FIGURE 2-26. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH REXROTH PUMP (WITH TOWER STOW) (ANSI EXPORT & AUSTRALIAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267656	Ref	GROUND CONTROL BOX INSTALLATION	C
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119456	2	Harness, Pump Adapter (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
9	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in this Section)	
10	1001265868	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
11	4240017	AR	Tie-Strap (Not Shown)	
12	4460234	AR	Mount, Tie-Strap (Not Shown)	
13	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-27. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMPS (WITHOUT TOWER STOW) (CE & UK CA SPECS) (LRC)

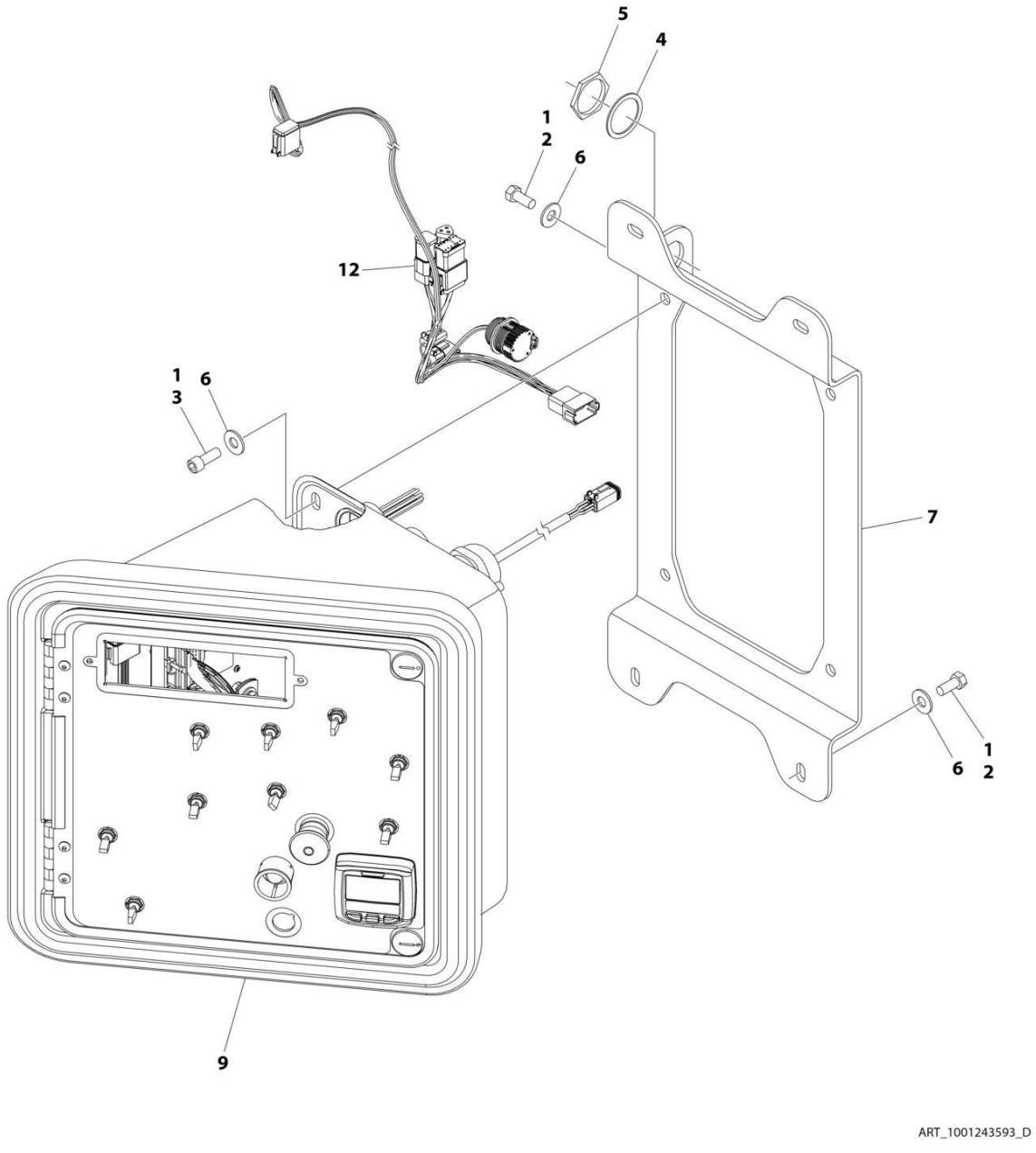

FIGURE 2-27. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMPS (WITHOUT TOWER STOW) (CE & UK CA SPECS) (LRC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243593	Ref	GROUND CONTROL BOX INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in this Section)	
9	1001266936	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
10	4240017	AR	Tie-Strap (Not Shown)	
11	4460234	AR	Mount, Tie-Strap (Not Shown)	
12	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-28. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (WITH TOWER STOW) (CE & UK CA SPECS) (LRC)

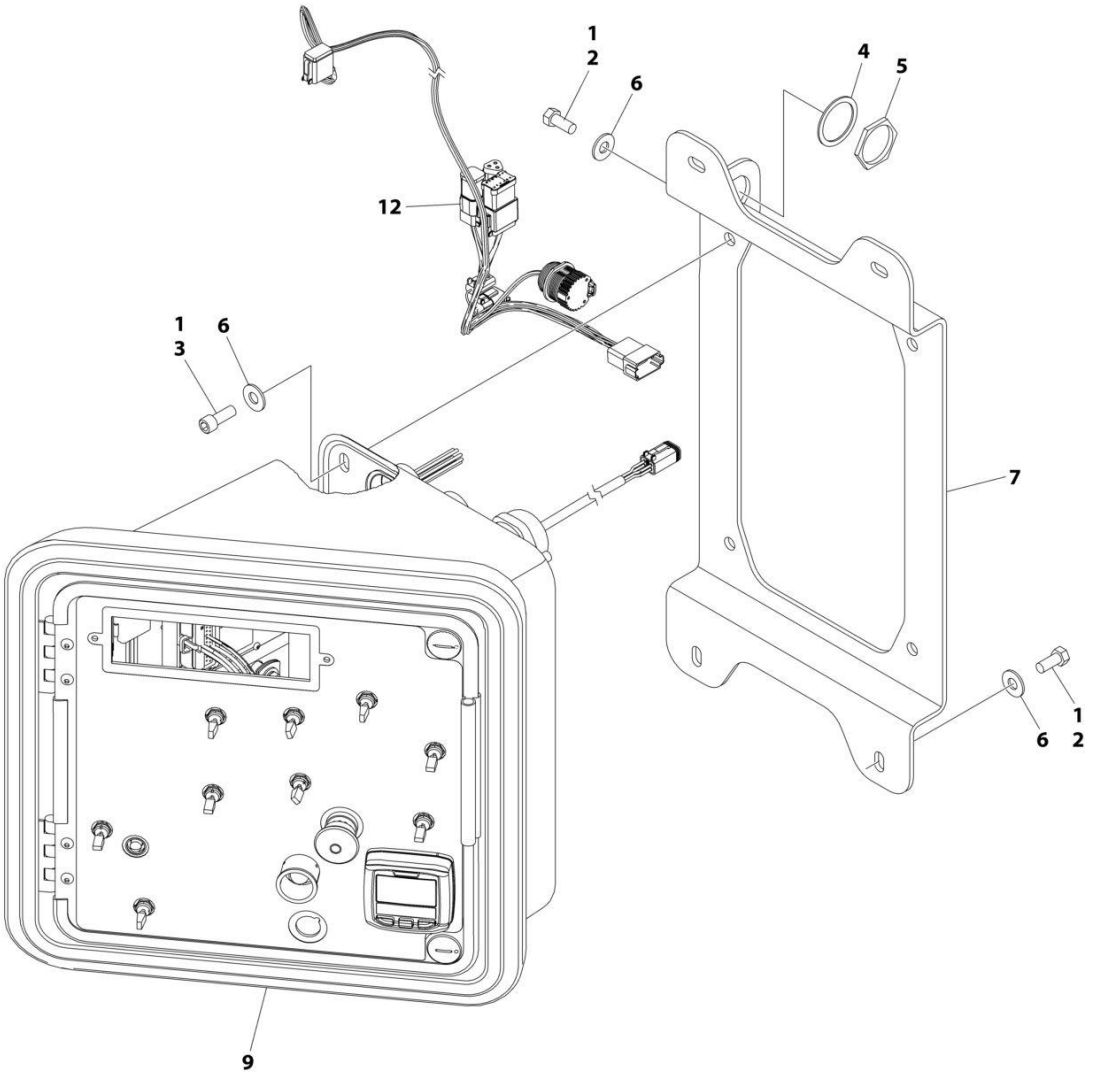

FIGURE 2-28. GROUND CONTROL BOX INSTALLATION - DEUTZ TD2011 ENGINES WITH SAUER PUMP (WITH TOWER STOW) (CE & UK CA SPECS) (LRC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267657	Ref	GROUND CONTROL BOX INSTALLATION	C
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001119470	1	Harness, Engine (Not Shown) (See Separate Breakdown in this Section)	
9	1001265868	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
10	4240017	AR	Tie-Strap (Not Shown)	
11	4460234	AR	Mount, Tie-Strap (Not Shown)	
12	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-29. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 ENGINES (WITHOUT TOWER STOW) (ALL SPECS EXCEPT AUSTRALIAN, CE & UK CA SPECS)

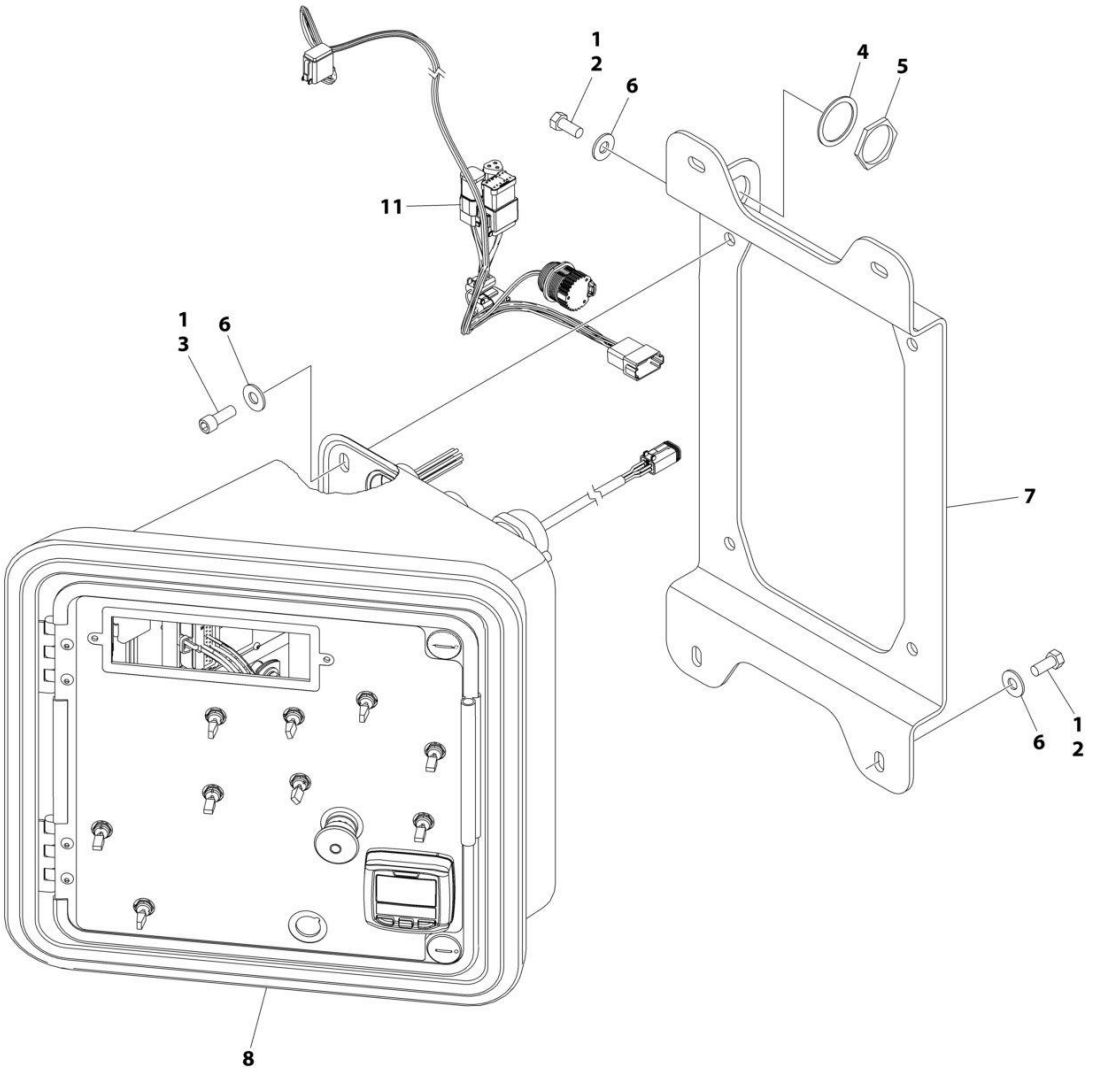

FIGURE 2-29. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 ENGINES (WITHOUT TOWER STOW) (ALL SPECS EXCEPT AUSTRALIAN, CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001243543	Ref	GROUND CONTROL BOX INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001266935	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
9	4240017	AR	Tie-Strap (Not Shown)	
10	4460234	AR	Mount, Tie-Strap (Not Shown)	
11	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-30. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 ENGINES (WITH TOWER STOW) (ALL SPECS EXCEPT AUSTRALIAN, CE & UK CA SPECS).

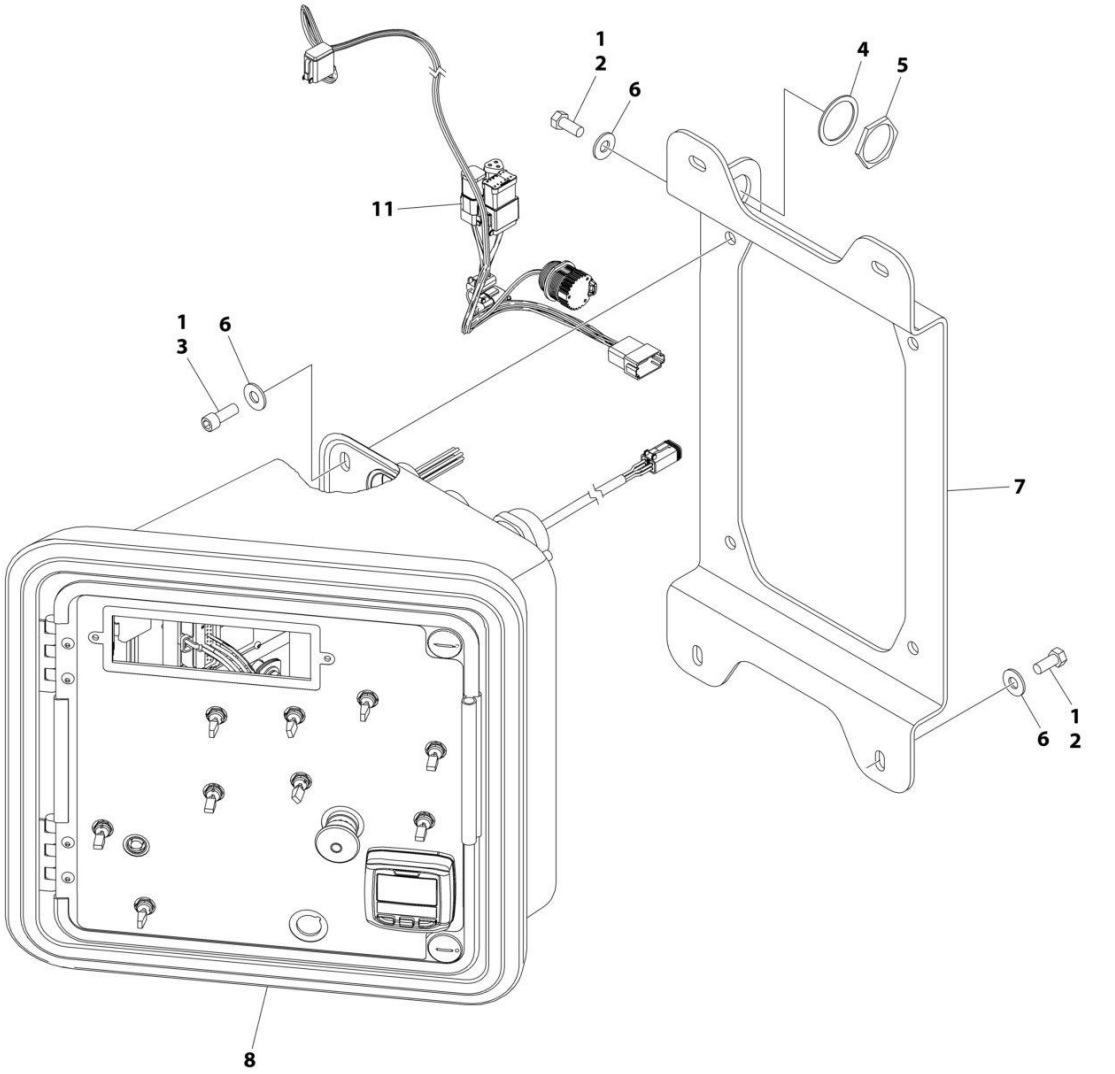

FIGURE 2-30. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 ENGINES (WITH TOWER STOW) (ALL SPECS EXCEPT AUSTRALIAN, CE & UK CA SPECS).

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267653	Ref	GROUND CONTROL BOX INSTALLATION	C
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001265867	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
9	4240017	AR	Tie-Strap (Not Shown)	
10	4460234	AR	Mount, Tie-Strap (Not Shown)	
11	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-31. GROUND CONTROL BOX INSTALLATION - CHINA IV (STAGE V) (CHINESE SPEC)

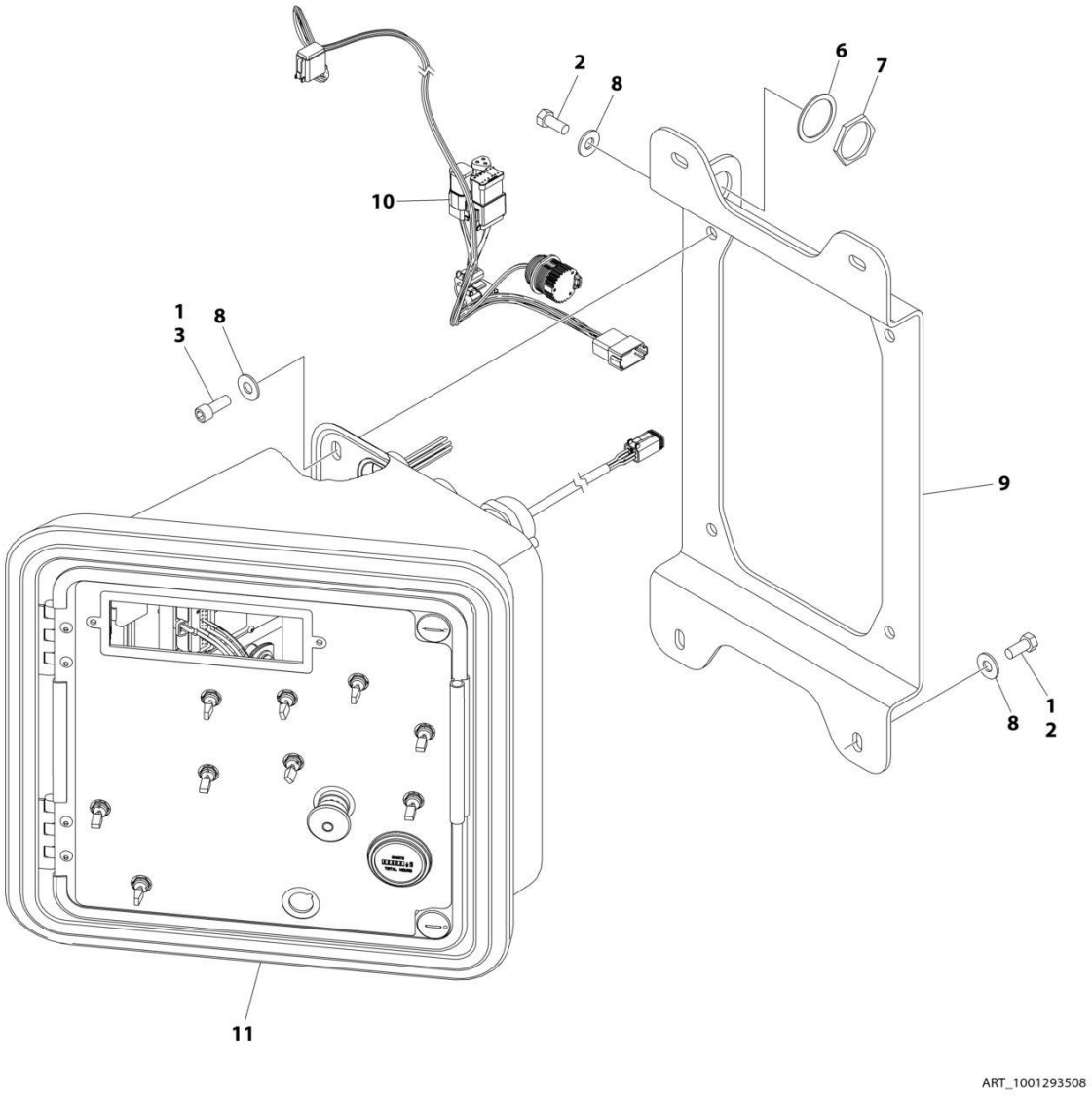

FIGURE 2-31. GROUND CONTROL BOX INSTALLATION - CHINA IV (STAGE V) (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001293508	Ref	GROUND CONTROL BOX INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4240017	AR	Tie-Strap (Not Shown)	
5	4460234	AR	Mount, Tie-Strap (Not Shown)	
6	4460496	1	Terminal, Washer	
7	4460497	1	Terminal, Nut	
8	4751600	7	Washer 3/8	
9	1001114487	1	Bracket, Mounting	
10	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	
11	1001293510	1	Ground Controls Assembly (See Separate Breakdown in this Section)	

FIGURE 2-32. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES (WITHOUT TOWER STOW)(CE & UK CA SPECS)

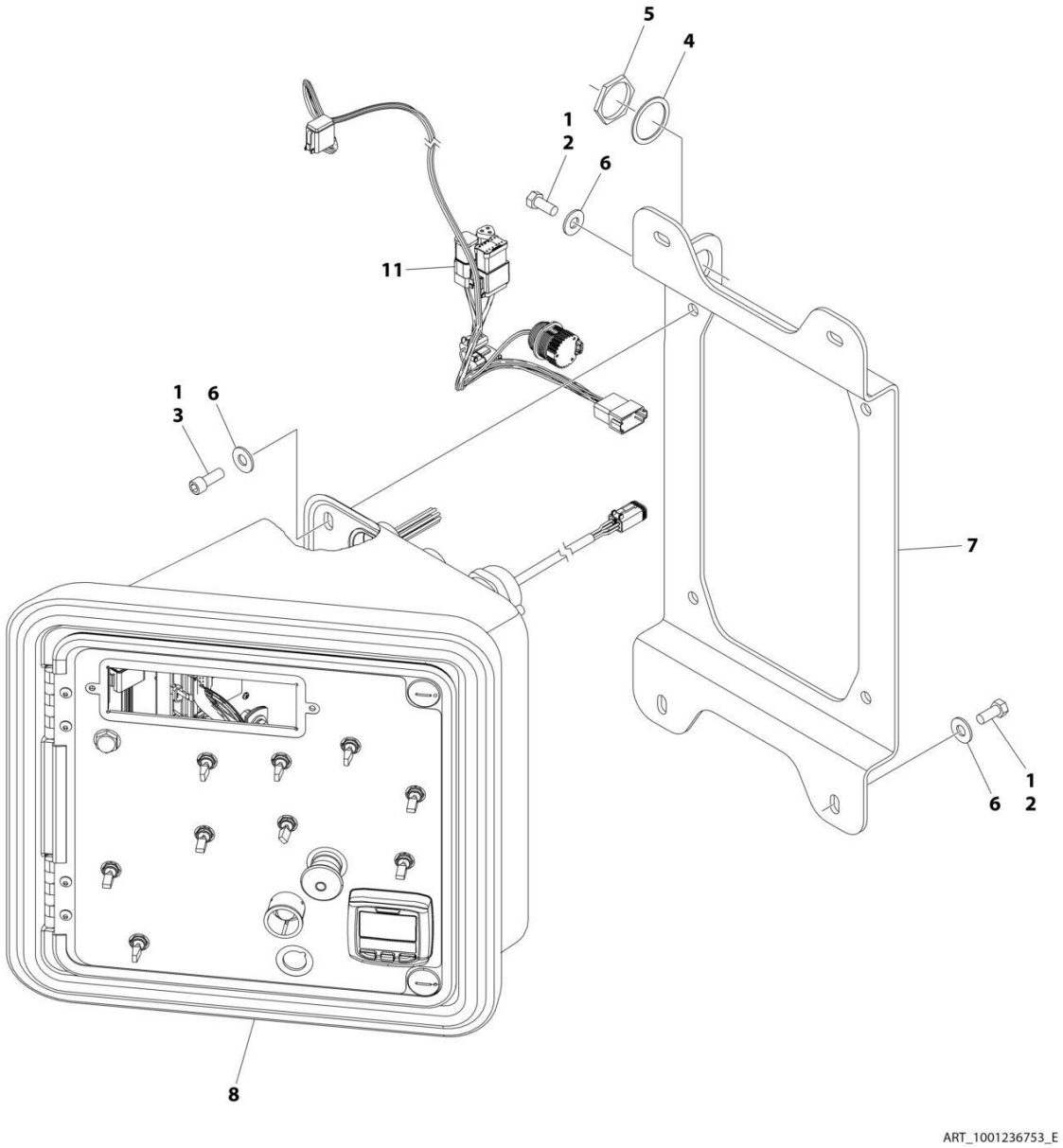

FIGURE 2-32. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES (WITHOUT TOWER STOW)(CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001236753	Ref	GROUND CONTROL BOX INSTALLATION	E
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001266937	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
9	4240017	AR	Tie-Strap (Not Shown)	
10	4460234	AR	Mount, Tie-Strap (Not Shown)	
11	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-33. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES (WITH TOWER STOW)(CE & UK CA SPECS)

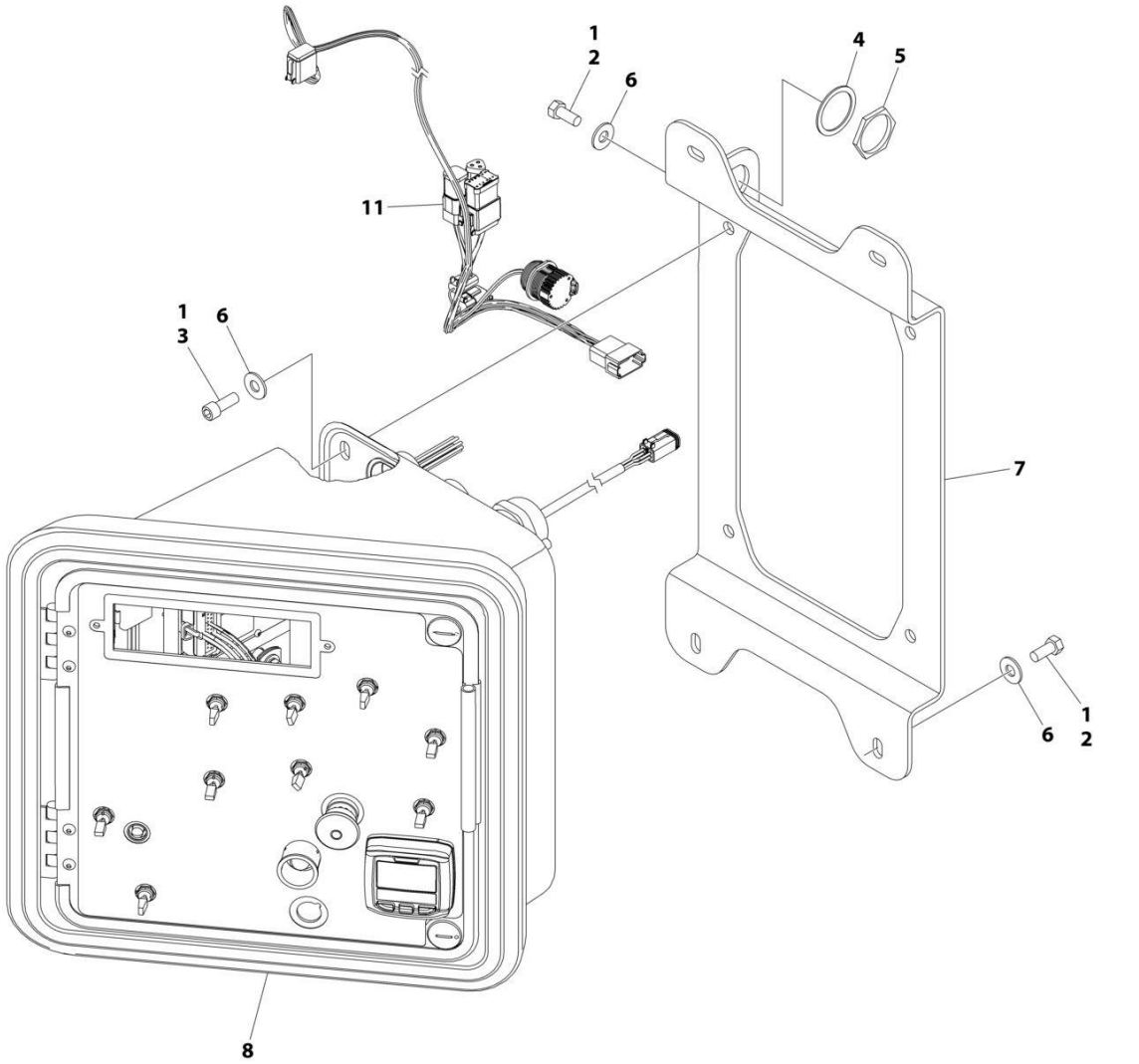

FIGURE 2-33. GROUND CONTROL BOX INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES (WITH TOWER STOW)(CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267658	Ref	GROUND CONTROL BOX INSTALLATION	C
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4460496	1	Terminal, Washer	
5	4460497	1	Terminal, Nut	
6	4751600	7	Washer 3/8	
7	1001114487	1	Bracket, Mounting	
8	1001265869	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
9	4240017	AR	Tie-Strap (Not Shown)	
10	4460234	AR	Mount, Tie-Strap (Not Shown)	
11	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-34. GROUND CONTROL BOX INSTALLATION (UN R96 WITH MSSO) (LRC) (SN 0300315597 to Present)

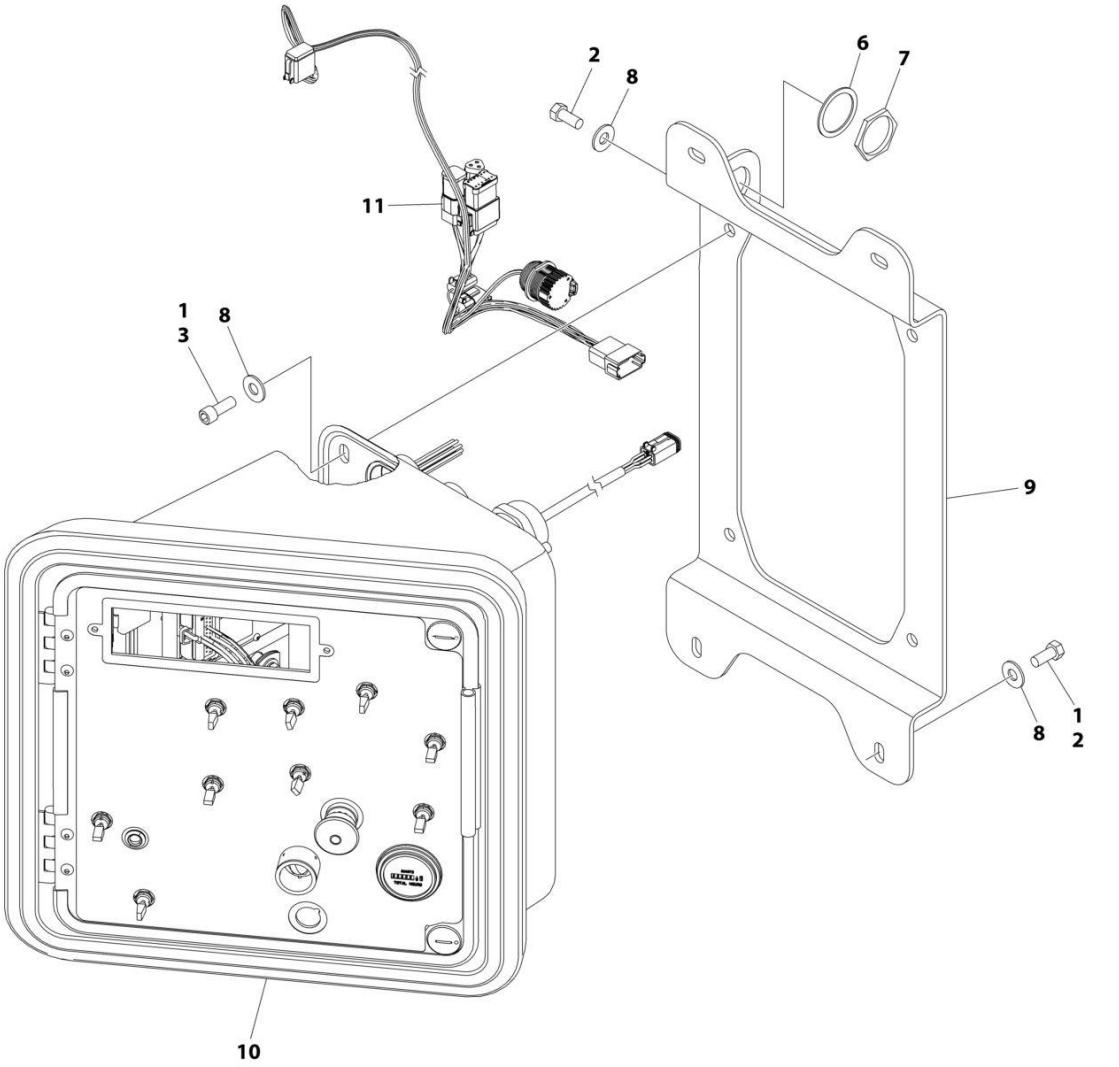

FIGURE 2-34. GROUND CONTROL BOX INSTALLATION (UN R96 WITH MSSO) (LRC) (SN 0300315597 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001309808	Ref	GROUND CONTROL BOX INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4240017	AR	Tie-Strap (Not Shown)	
5	4460234	AR	Mount, Tie-Strap (Not Shown)	
6	4460496	1	Terminal, Washer	
7	4460497	1	Terminal, Nut	
8	4751600	7	Washer 3/8	
9	1001114487	1	Bracket, Mounting	
10	1001266936	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
11	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-35. GROUND CONTROL BOX INSTALLATION (UN R96 WITH MSSO) (WITH TOWER STOW) (LRC) (SN 0300315597 to Present)

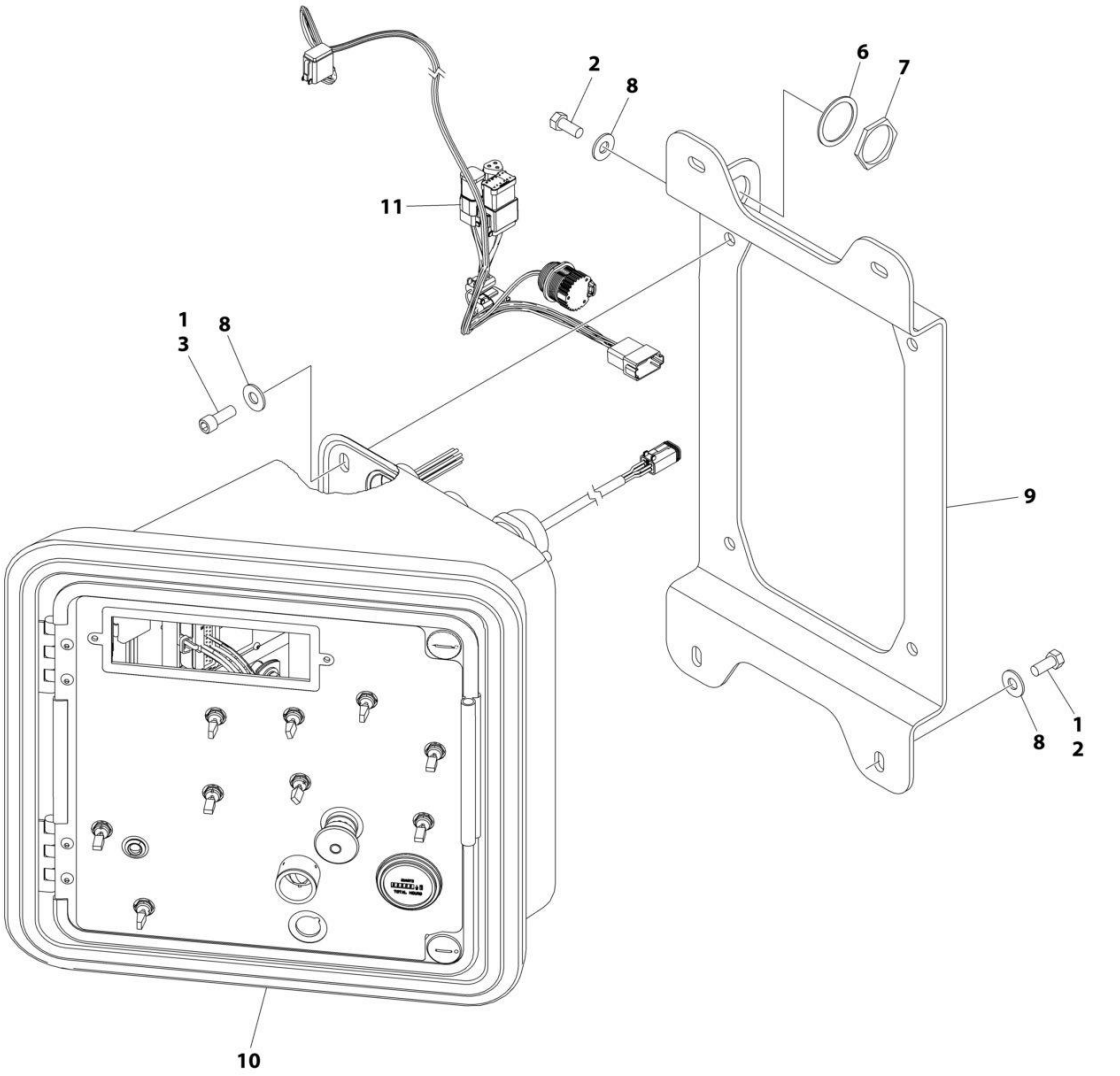

FIGURE 2-35. GROUND CONTROL BOX INSTALLATION (UN R96 WITH MSSO) (WITH TOWER STOW) (LRC) (SN 0300315597 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001309809	Ref	GROUND CONTROL BOX INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4240017	AR	Tie-Strap (Not Shown)	
5	4460234	AR	Mount, Tie-Strap (Not Shown)	
6	4460496	1	Terminal, Washer	
7	4460497	1	Terminal, Nut	
8	4751600	7	Washer 3/8	
9	1001114487	1	Bracket, Mounting	
10	1001265868	1	Ground Controls Assembly (See Separate Breakdown in this Section)	
11	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-36. GROUND CONTROL ASSEMBLY - WITH DEUTZ TD2011 AND DEUTZ TCD2.9L4 ENGINES - WITH MECHANICAL HOUR METER (WITHOUT TOWER STOW) (ALL SPECS EXCEPT CE & UK CA SPECS)

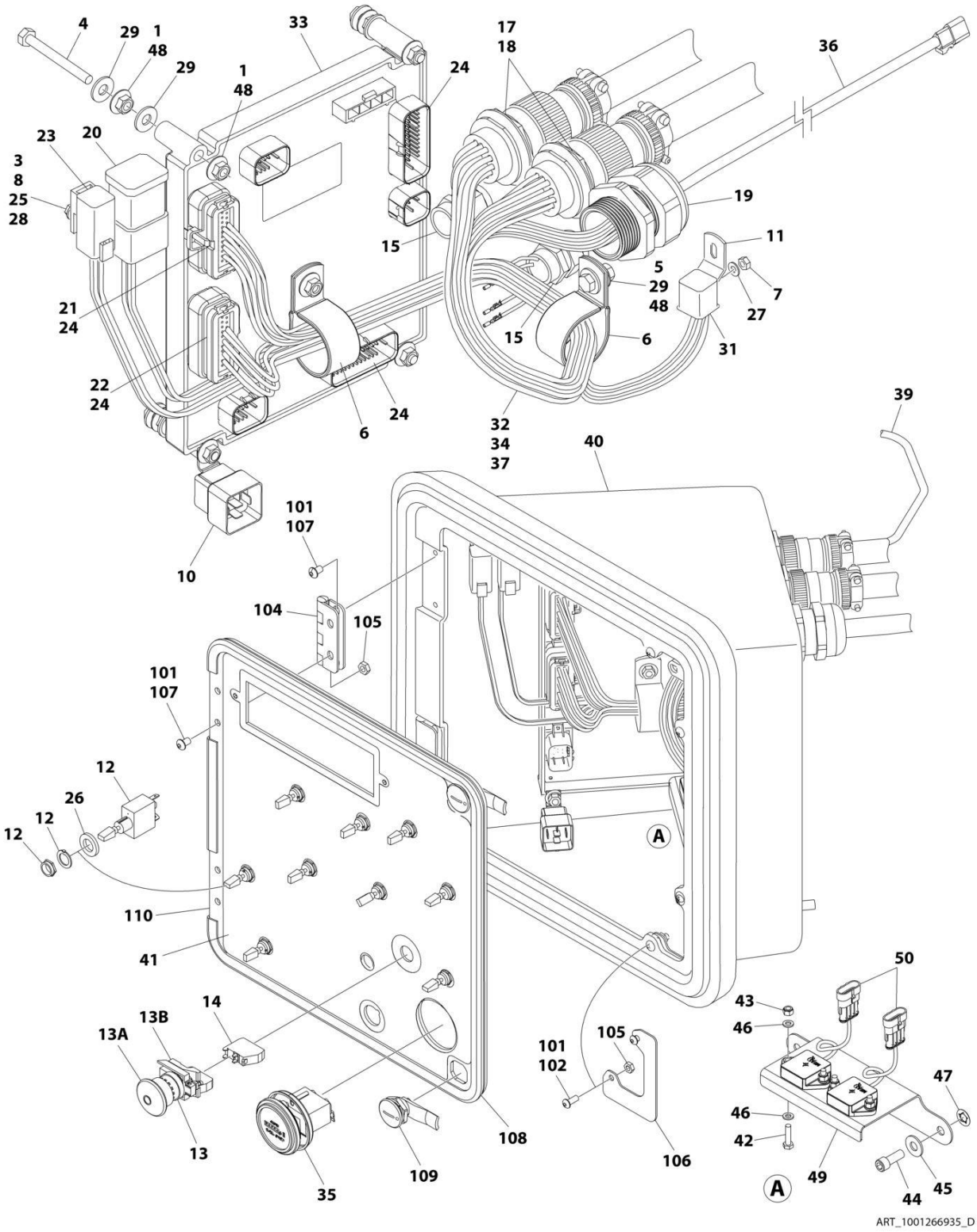

FIGURE 2-36. GROUND CONTROL ASSEMBLY - WITH DEUTZ TD2011 AND DEUTZ TCD2.9L4 ENGINES - WITH MECHANICAL HOUR METER (WITHOUT TOWER STOW) (ALL SPECS EXCEPT CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001266935	Ref	GROUND CONTROL ASSEMBLY	D
1	0100011	AR	Compound, Locking	
3	0630464	2	Screw #10 x 1/2	
4	0630548	5	Screw, Self Tapping	
5	0641406	1	Bolt 1/4 x 3/4	
6	1320095	2	Clamp	
7	3310601	1	Nut #6	
8	3311001	2	Nut #10	
10	3740049	1	Relay	
11	4340832	1	Mount, Relay	
12	4360328	9	Switch, Toggle	
13	4360475	1	Switch, Push-Pull Emergency	
13A	7020175	1	Cap	
13B	7020176	1	Block, Contact	
14	4360476	1	Block, Contact	
15	4460425	2	Connector, Strain Relief	
17	4460470	2	Nut, Terminal	
18	4460471	2	Washer, Terminal	
19	1001215836	1	Connector, Strain Relief	
20	4460837	1	Connector - 12 Pin	
21	4460874	1	Connector, White	
22	4460875	1	Connector, Gray	
23	4460892	1	Connector, Buss Bar - 6 Position	
24	4460905	16	Plug	
25	4460914	2	Base, Terminal	
26	4740397	9	Washer	
27	4750600	1	Washer #6	
28	4751000	2	Washer #10	
29	4751400	11	Washer 1/4	
31	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
32	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
33	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
34	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
35	10836804	1	Hour Meter	
36	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
37	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
38	1001288112	1	Wiring Diagram (Not Shown)	
39	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
40	1001280410	1	Box Assembly (See Items 101-110 for Breakdown)	C
41	1001266941	1	Decal - MTB	
42	0760612	4	Bolt M6 x 25	
43	3290605	4	Nut, Lock M6	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	3931616	2	Bolt 3/8 x 1	
45	4751600	2	Washer 3/8	
46	4811700	8	Washer M6	
47	8310070	2	Pushnut 3/8	
48	77143013	11	Nut 1/4	
49	1001278483	1	Bracket, Tilt Sensor	
50	1001219601	2	Sensor, Tilt Dual Axis CAN	
51	1001129334	1	Harness, Jumper (Not Shown)	
51	4460871	2	Socket	
	1001265864	Ref	BOX ASSEMBLY	B
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	53 in/ 1.4m	Seal	
109	1001242373	2	Latch	
110	1001265859	1	Panel, MTB	

FIGURE 2-37. GROUND CONTROL BOX INSTALLATION - CHINA IV (CHINESE SPEC)

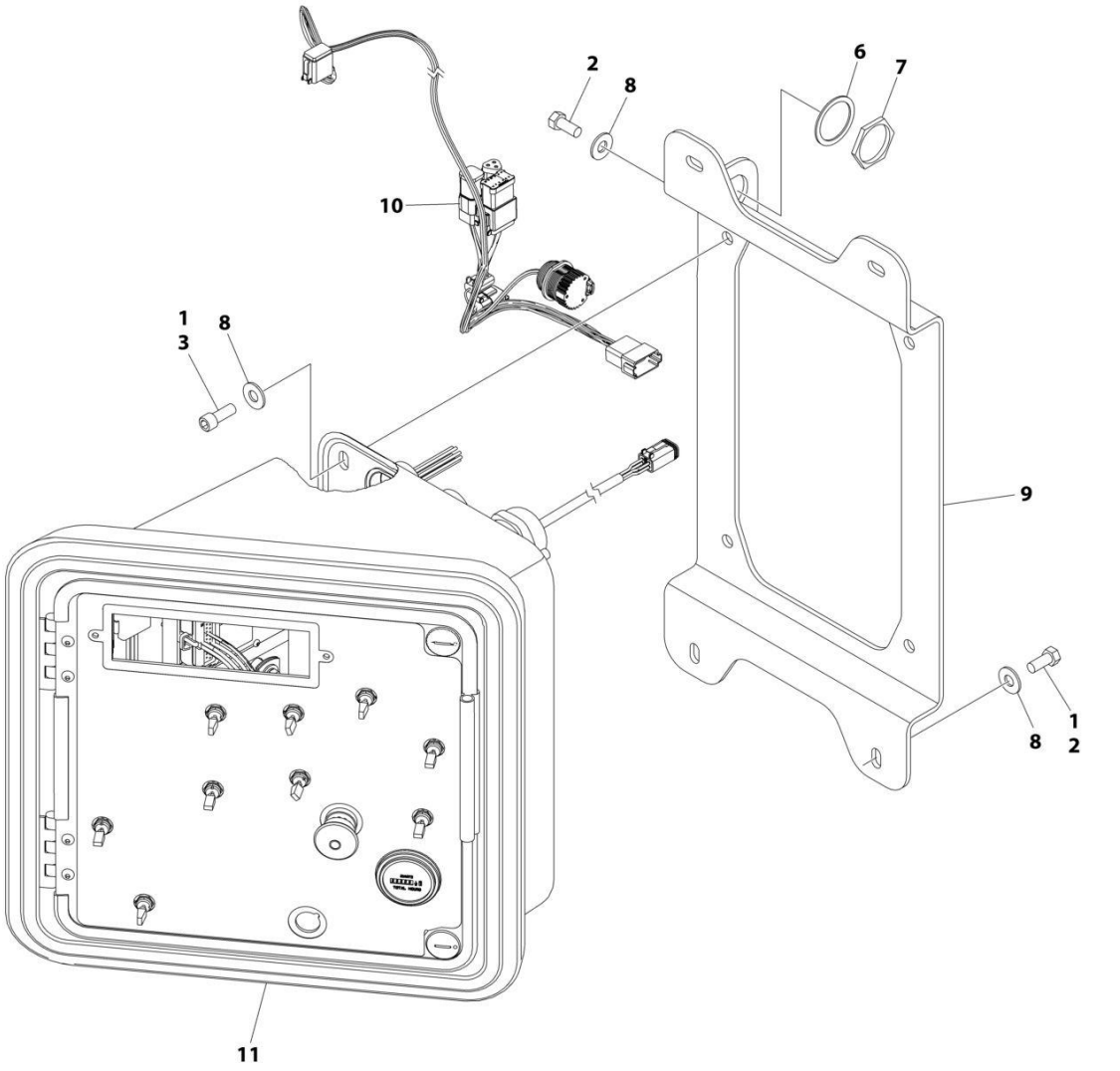

FIGURE 2-37. GROUND CONTROL BOX INSTALLATION - CHINA IV (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001293507	Ref	GROUND CONTROL BOX INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4240017	AR	Tie-Strap (Not Shown)	
5	4460234	AR	Mount, Tie-Strap (Not Shown)	
6	4460496	1	Terminal, Washer	
7	4460497	1	Terminal, Nut	
8	4751600	7	Washer 3/8	
9	1001114487	1	Bracket, Mounting	
10	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	
11	1001293509	1	Ground Controls Assembly (See Separate Breakdown in this Section)	

FIGURE 2-38. GROUND CONTROL BOX INSTALLATION - CHINA IV (STAGE V) (CHINESE SPEC)

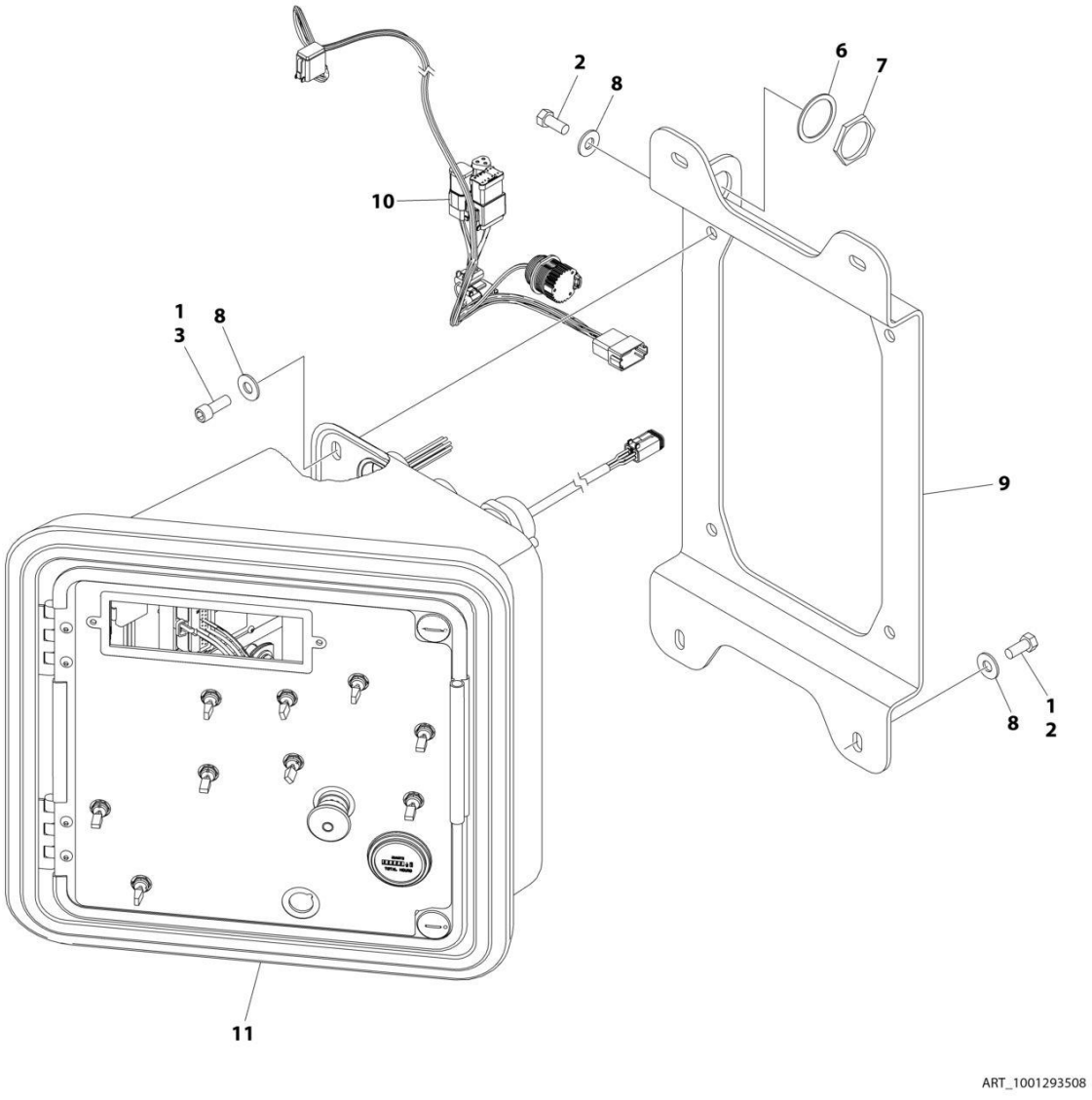

FIGURE 2-38. GROUND CONTROL BOX INSTALLATION - CHINA IV (STAGE V) (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001293508	Ref	GROUND CONTROL BOX INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641607	5	Bolt 3/8 x 7/8	
3	3931616	2	Capscrew 3/8 x 1	
4	4240017	AR	Tie-Strap (Not Shown)	
5	4460234	AR	Mount, Tie-Strap (Not Shown)	
6	4460496	1	Terminal, Washer	
7	4460497	1	Terminal, Nut	
8	4751600	7	Washer 3/8	
9	1001114487	1	Bracket, Mounting	
10	1001288110	1	Harness, Diagnostic (See Separate Breakdown in ELECTRICAL Section)	
11	1001293510	1	Ground Controls Assembly (See Separate Breakdown in this Section)	

FIGURE 2-39. GROUND CONTROL ASSEMBLY - WITH DEUTZ TD2011 AND DEUTZ TCD2.9L4 ENGINES - WITH MECHANICAL HOUR METER (WITH TOWER STOW) (ALL SPECS EXCEPT CE & UK CA SPECS)

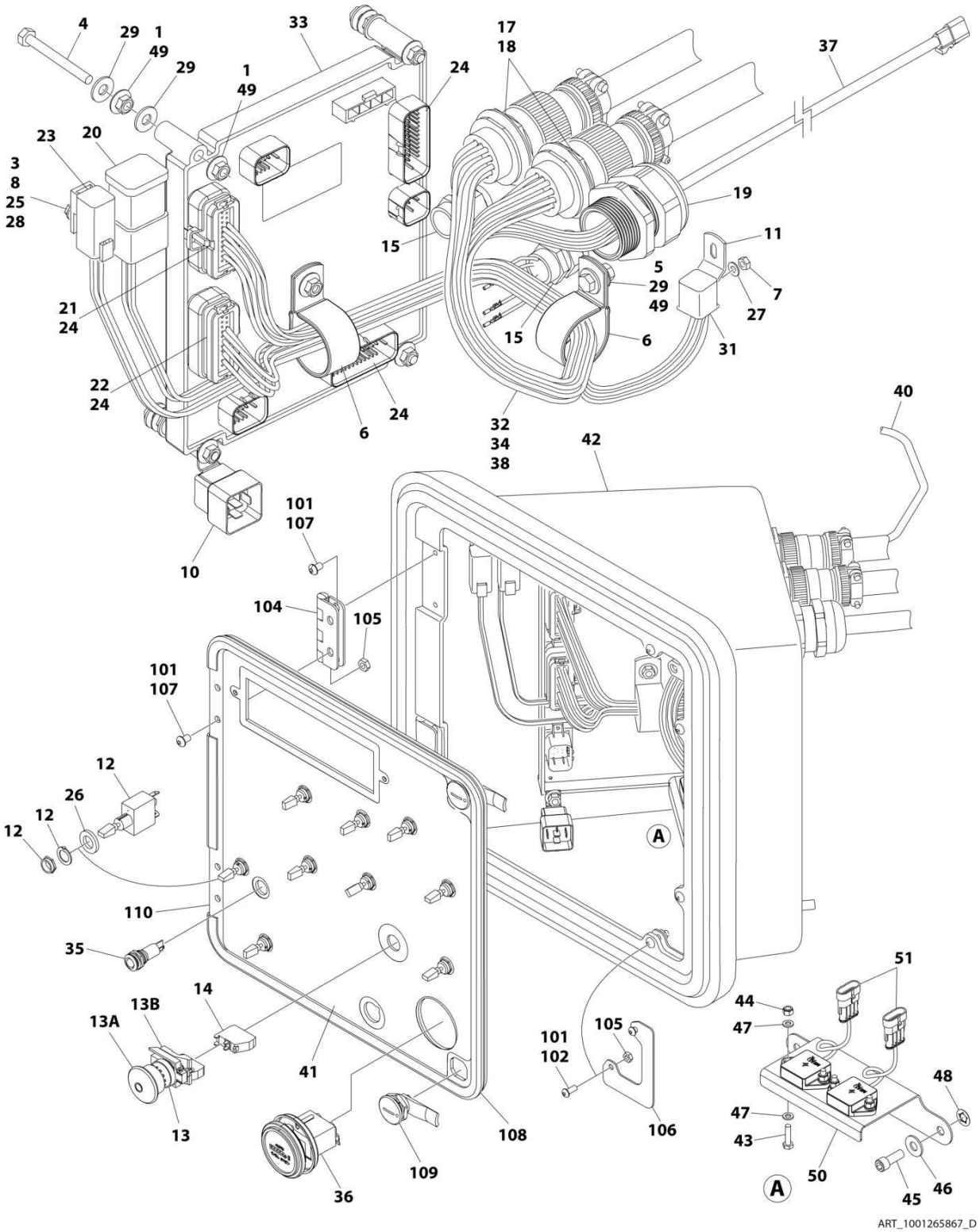

FIGURE 2-39. GROUND CONTROL ASSEMBLY - WITH DEUTZ TD2011 AND DEUTZ TCD2.9L4 ENGINES - WITH MECHANICAL HOUR METER (WITH TOWER STOW) (ALL SPECS EXCEPT CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265867	Ref	GROUND CONTROL ASSEMBLY	D
1	0100011	AR	Compound, Locking	
3	0630464	2	Screw #10 x 1/2	
4	0630548	5	Screw, Self Tapping	
5	0641406	1	Bolt 1/4 x 3/4	
6	1320095	2	Clamp	
7	3310601	1	Nut #6	
8	3311001	2	Nut #10	
10	3740049	1	Relay	
11	4340832	1	Mount, Relay	
12	4360328	9	Switch, Toggle	
13	4360475	1	Switch, Push-Pull Emergency	
13A	7020175	1	Cap	
13B	7020176	1	Block, Contact	
14	4360476	1	Block, Contact	
15	4460425	2	Connector, Strain Relief	
17	4460470	2	Nut, Terminal	
18	4460471	2	Washer, Terminal	
19	1001215836	1	Connector, Strain Relief	
20	4460837	1	Connector - 12 Pin	
21	4460874	1	Connector, White	
22	4460875	1	Connector, Gray	
23	4460892	1	Connector, Buss Bar - 6 Position	
24	4460905	16	Plug	
25	4460914	2	Base, Terminal	
26	4740397	9	Washer	
27	4750600	1	Washer #6	
28	4751000	2	Washer #10	
29	4751400	11	Washer 1/4	
31	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
32	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
33	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
34	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
35	1001137364	1	Lamp, LED Indicator Green	
36	10836804	1	Hour Meter	
37	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
38	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
39	1001288112	1	Wiring Diagram (Not Shown)	
40	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
41	1001265854	1	Decal - MTB	
42	1001280410	1	Box Assembly	
43	0760612	4	Bolt M6 x 25	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	3290605	4	Nut, Lock M6	
45	3931616	2	Bolt 3/8 x 1	
46	4751600	2	Washer 3/8	
47	4811700	8	Washer M6	
48	8310070	2	Pushnut 3/8 x 13/16	
49	77143013	11	Nut 1/4	
50	1001278483	1	Bracket, Tilt Sensor	
51	1001219601	2	Sensor, Tilt Dual Axis CAN	
52	1001129334	1	Harness, Jumper (Not Shown)	
52	4460871	2	Socket	
	1001265864	Ref	BOX ASSEMBLY	B
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	53 in/ 1.4m	Seal	
109	1001242373	2	Latch	
110	1001265859	1	Panel, MTB	

FIGURE 2-40. GROUND CONTROL ASSEMBLY - DEUTZ TD2011 ENGINES (WITHOUT TOWER STOW) (CE & UK CA SPECS)

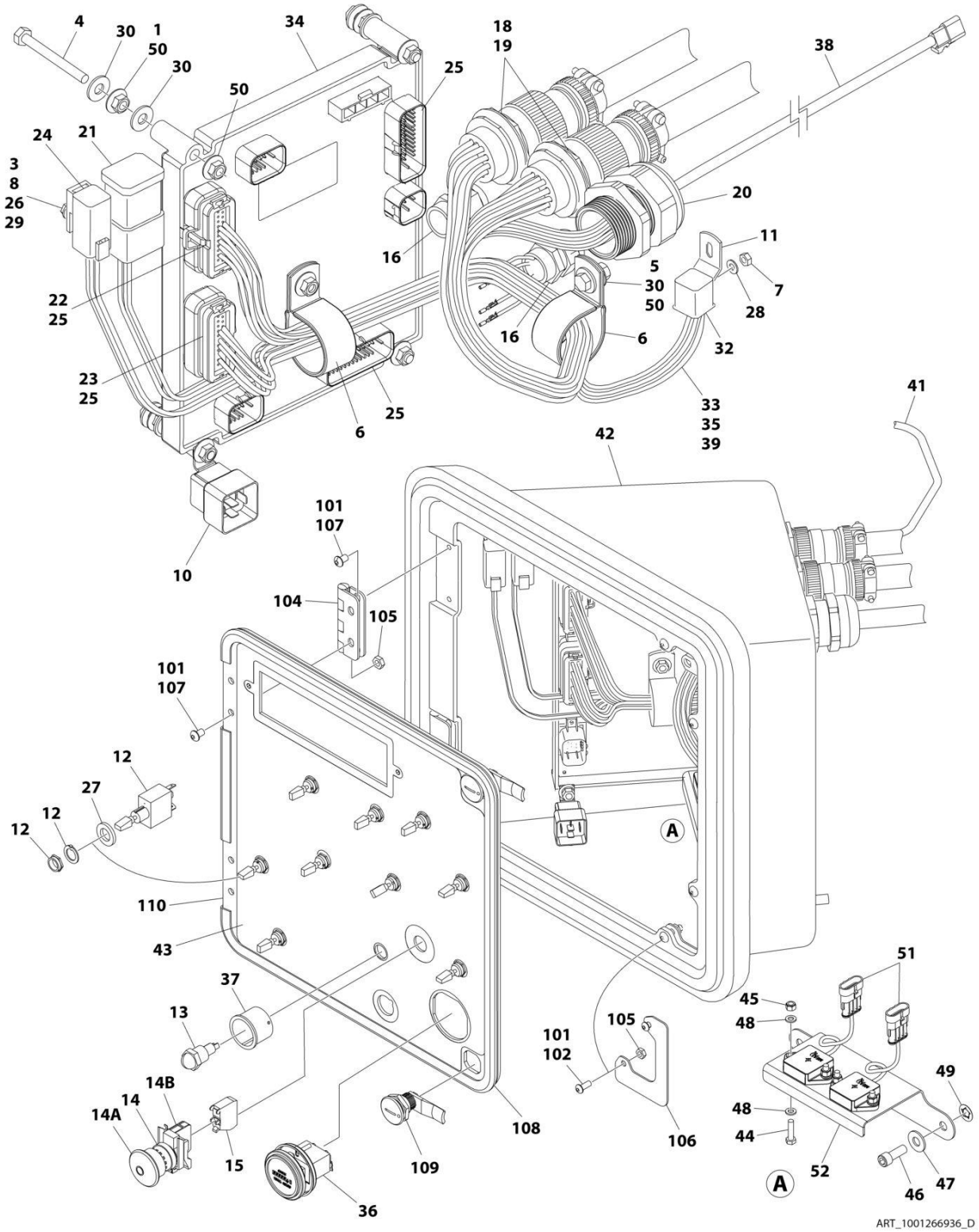


FIGURE 2-40. GROUND CONTROL ASSEMBLY - DEUTZ TD2011 ENGINES (WITHOUT TOWER STOW) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001266936	Ref	GROUND CONTROL ASSEMBLY	D
1	0100011	AR	Compound, Locking	
3	0630464	2	Screw #10 x 1/2	
4	0630548	5	Screw, Self Tapping	
5	0641406	1	Bolt 1/4 x 3/4	
6	1320095	2	Clamp	
7	3310601	1	Nut #6	
8	3311001	2	Nut #10	
10	3740049	1	Relay	
11	4340832	1	Mount, Relay	
12	4360328	9	Switch, Toggle	
13	4360387	1	Switch, Yellow Push Button	
14	4360475	1	Switch, Push-Pull Emergency	
14A	7020175	1	Cap	
14B	7020176	1	Block, Contact	
15	4360476	1	Block, Contact	
16	4460425	2	Connector, Strain Relief	
18	4460470	2	Nut, Terminal	
19	4460471	2	Washer, Terminal	
20	1001215836	1	Connector, Strain Relief	
21	4460837	1	Connector - 12 Pin	
22	4460874	1	Connector, White	
23	4460875	1	Connector, Gray	
24	4460892	1	Connector, Buss Bar - 6 Position	
25	4460905	16	Plug	
26	4460914	2	Base, Terminal	
27	4740397	9	Washer	
28	4750600	1	Washer #6	
29	4751000	2	Washer #10	
30	4751400	11	Washer 1/4	
32	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
33	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
34	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
35	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
36	10836804	1	Gauge, Display	
37	1001176469	1	Shroud, Push Button Switch	
38	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
39	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
40	1001288112	1	Wiring Diagram (Not Shown)	
41	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
42	1001265865	1	Box Assembly (See Items 101-110 for Breakdown)	
43	1001266942	1	Decal - MTB	
44	0760612	4	Bolt M6 x 25	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	3290605	4	Nut, Lock M6	
46	3931616	2	Bolt 3/8 x 1	
47	4751600	2	Washer 3/8	
48	4811700	8	Washer M6	
49	8310070	2	Pushnut 3/8 x 13/16	
50	77143013	11	Nut 1/4	
51	1001219601	2	Sensor, Tilt Dual Axis CAN	
52	1001278483	1	Bracket, Tilt Sensor	
53	1001129334	1	Harness, Jumper (Not Shown)	
53	4460871	2	Socket	
	1001265865	Ref	BOX ASSEMBLY	C
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	5 in/2 m	Seal	
109	1001242373	2	Latch	
110	1001297396	1	Panel, MTB	

FIGURE 2-41. GROUND CONTROL ASSEMBLY - DEUTZ TD2011 ENGINES (WITH TOWER STOW) (CE & UK CA SPECS)

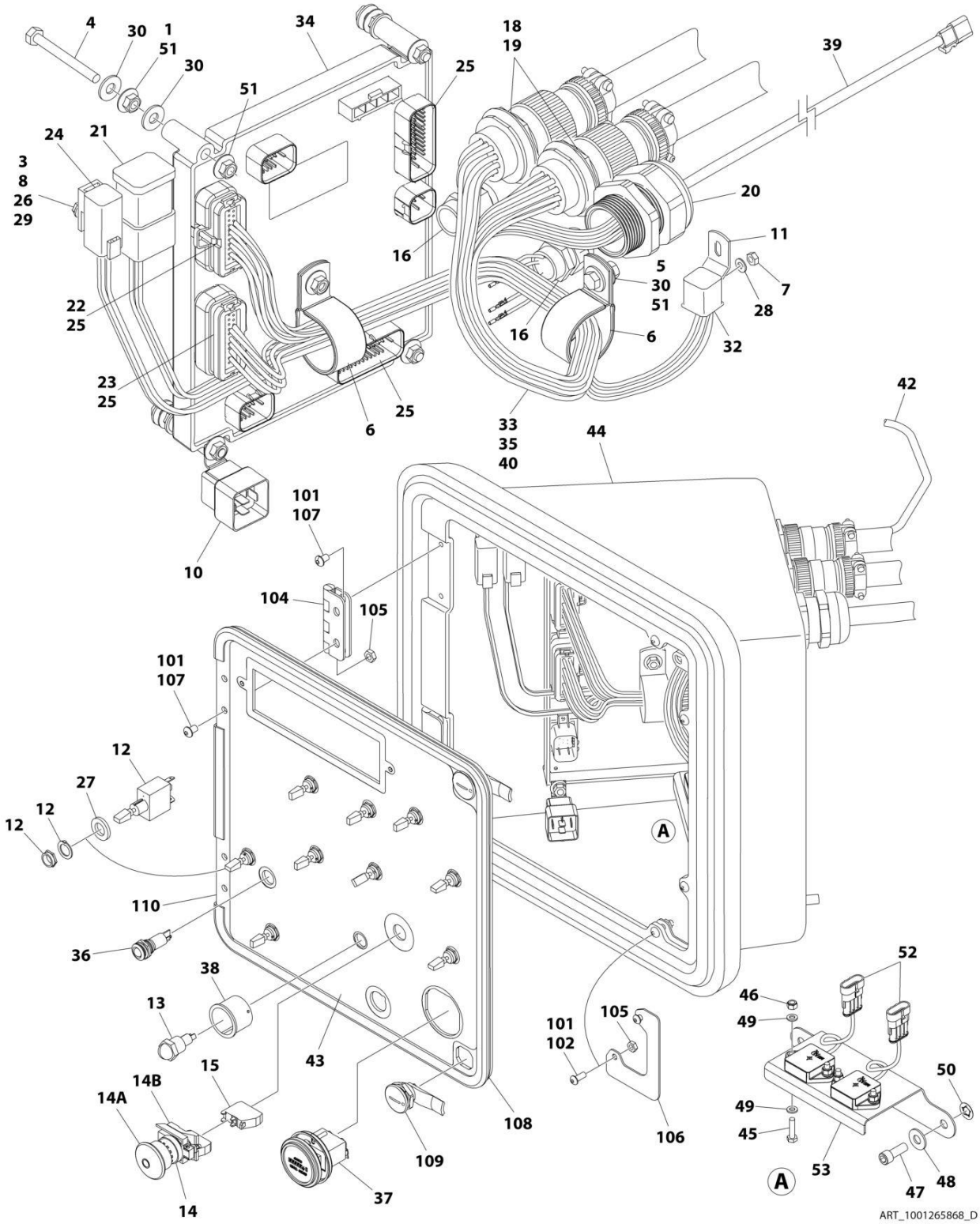


FIGURE 2-41. GROUND CONTROL ASSEMBLY - DEUTZ TD2011 ENGINES (WITH TOWER STOW) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265868	Ref	GROUND CONTROL ASSEMBLY	D
1	0100011	AR	Compound, Locking	
3	0630464	2	Screw #10 x 1/2	
4	0630548	5	Screw, Self Tapping	
5	0641406	1	Bolt 1/4 x 3/4	
6	1320095	2	Clamp	
7	3310601	1	Nut #6	
8	3311001	2	Nut #10	
10	3740049	1	Relay	
11	4340832	1	Mount, Relay	
12	4360328	9	Switch, Toggle	
13	4360387	1	Switch, Yellow Push Button	
14	4360475	1	Switch, Push-Pull Emergency	
14A	7020175	1	Cap	
14B	7020176	1	Block, Contact	
15	4360476	1	Block, Contact	
16	4460425	2	Connector, Strain Relief	
18	4460470	2	Nut, Terminal	
19	4460471	2	Washer, Terminal	
20	1001215836	1	Connector, Strain Relief	
21	4460837	1	Connector - 12 Pin	
22	4460874	1	Connector, White	
23	4460875	1	Connector, Gray	
24	4460892	1	Connector, Buss Bar - 6 Position	
25	4460905	16	Plug	
26	4460914	2	Base, Terminal	
27	4740397	9	Washer	
28	4750600	1	Washer #6	
29	4751000	2	Washer #10	
30	4751400	11	Washer 1/4	
32	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
33	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
34	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
35	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
36	1001137364	1	Lamp, LED Indicator Green	
37	10836804	1	Gauge, Display	
38	1001176469	1	Shroud, Push Button Switch	
39	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
40	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
41	1001288112	1	Wiring Diagram (Not Shown)	
42	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
43	1001265855	1	Decal, MTB	
44	1001265865	1	Box Assembly	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	0760612	4	Bolt M6 x 25	
46	3290605	4	Nut, Lock M6	
47	3931616	2	Bolt 3/8 x 1	
48	4751600	2	Washer 3/8	
49	4811700	8	Washer M6	
50	8310070	2	Pushnut 3/8	
51	77143013	11	Nut 1/4	
52	1001219601	2	Sensor, Tilt Dual Axis CAN	
53	1001278483	1	Bracket, Tilt Sensor	
54	1001129334	1	Harness, Jumper (Not Shown)	
54	4460871	2	Socket	
	1001265865	Ref	BOX ASSEMBLY	C
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	5 in/2 m	Seal	
109	1001242373	2	Latch	
110	1001297396	1	Panel, MTB	

FIGURE 2-42. GROUND CONTROL ASSEMBLY - DEUTZ TCD2.9L4 (STAGE V) (WITHOUT TOWER STOW) (CE & UK CA SPECS)

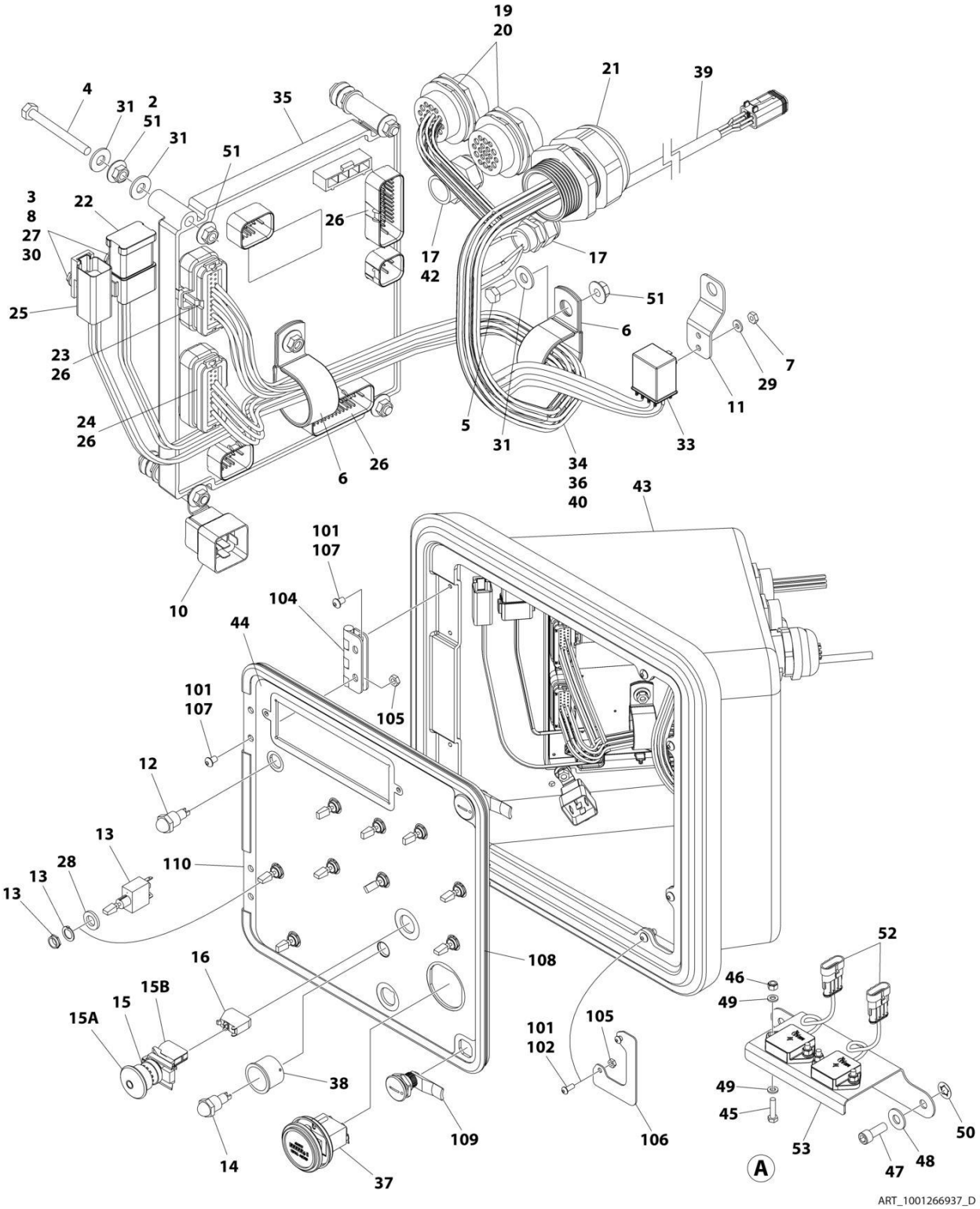


FIGURE 2-42. GROUND CONTROL ASSEMBLY - DEUTZ TCD2.9L4 (STAGE V) (WITHOUT TOWER STOW) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001266937	Ref	GROUND CONTROL ASSEMBLY	D
2	0100011	AR	Compound, Locking	
3	0630464	2	Screw #10 x 1/2	
4	0630548	5	Screw, Self Tapping	
5	0641406	1	Bolt 1/4 x 3/4	
6	1320095	2	Clamp	
7	3310601	1	Nut #6	
8	3311001	2	Nut #10	
10	3740049	1	Relay	
11	4340832	1	Mount, Relay	
12	4360274	1	Switch, Gray Push Button	
13	4360328	9	Switch, Toggle	
14	4360387	1	Switch, Yellow Push Button	
15	4360475	1	Switch, Push-Pull Emergency	
15A	7020175	1	Cap	
15B	7020176	1	Block, Contact	
16	4360476	1	Block, Contact	
17	4460425	2	Connector, Strain Relief	
19	4460470	2	Nut, Terminal	
20	4460471	2	Washer, Terminal	
21	1001215836	1	Connector, Strain Relief	
22	4460837	1	Connector - 12 Pin	
23	4460874	1	Connector, White	
24	4460875	1	Connector, Gray	
25	4460892	1	Connector, Buss Bar - 6 Position	
26	4460905	16	Plug	
27	4460914	2	Base, Terminal	
28	4740397	9	Spacer, Washer	
29	4750600	1	Washer #6	
30	4751000	2	Washer #10	
31	4751400	11	Washer 1/4	
33	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
34	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
35	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
36	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
37	10836804	1	Gauge, Display	
38	1001176469	1	Shroud, Push Button Switch	
39	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
40	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
41	1001288112	1	Wiring Diagram (Not Shown)	
42	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
43	1001265865	1	Box Assembly (See Items 101-110 for Breakdown)	
44	1001266943	1	Decal - MTB	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	0760612	4	Bolt M6 x 25	
46	3290605	4	Nut, Lock M6	
47	3931616	2	Bolt 3/8 x 1	
48	4751600	2	Washer 3/8	
49	4811700	8	Washer M6	
50	8310070	2	Pushnut 3/8 x 13/16	
51	77143013	11	Nut 1/4	
52	1001219601	2	Sensor, Tilt Dual Axis CAN	
53	1001278483	1	Bracket, Tilt Sensor	
54	1001129334	1	Harness, Jumper (Not Shown)	
54	4460871	2	Socket	
	1001265865	Ref	BOX ASSEMBLY	C
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	5 in/2 m	Seal	
109	1001242373	2	Latch	
110	1001297396	1	Panel, MTB	

FIGURE 2-43. GROUND CONTROL ASSEMBLY - DEUTZ TCD2.9L4 (STAGE V) (WITH TOWER STOW) (CE & UK CA SPECS)

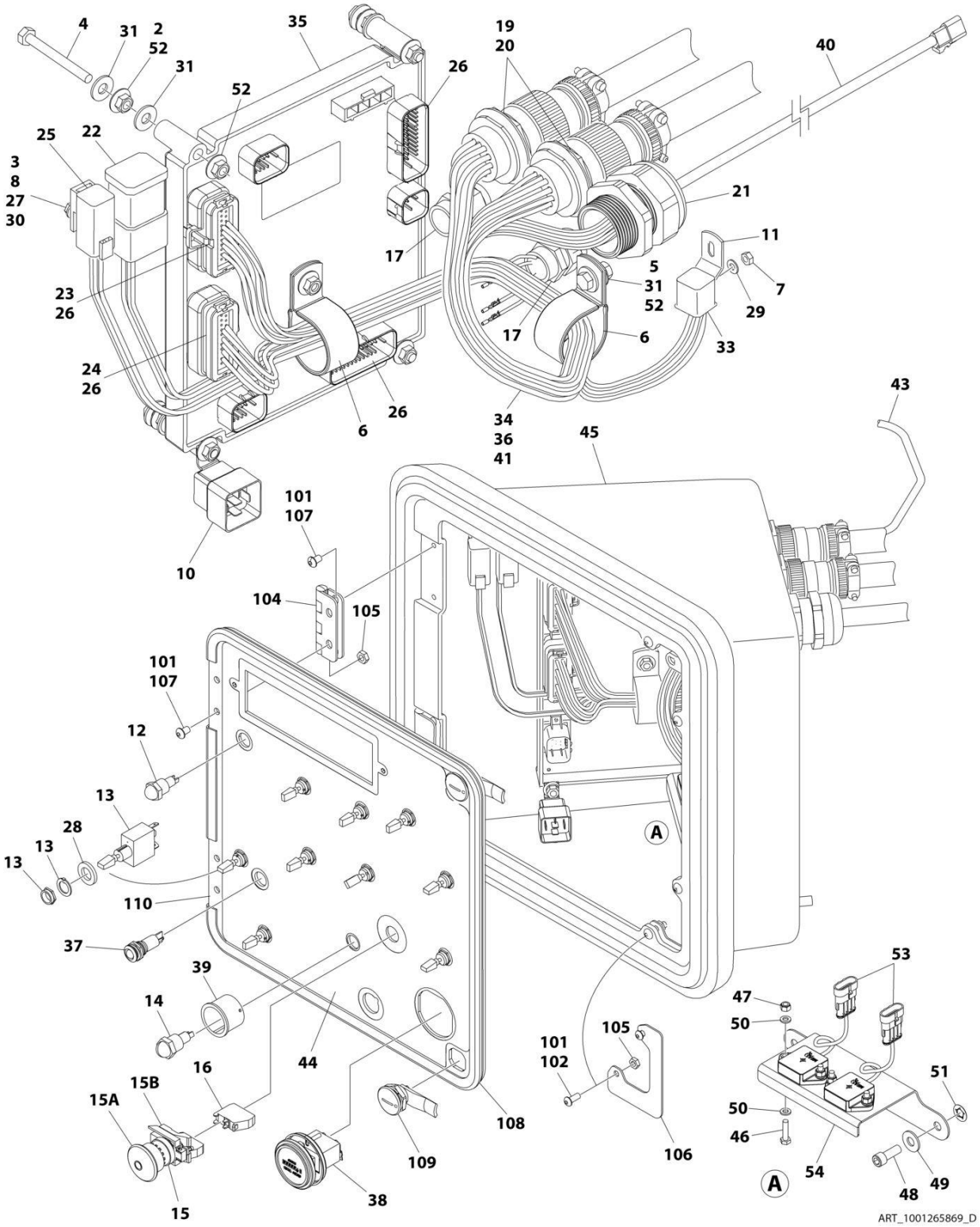


FIGURE 2-43. GROUND CONTROL ASSEMBLY - DEUTZ TCD2.9L4 (STAGE V) (WITH TOWER STOW) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265869	Ref	GROUND CONTROL ASSEMBLY	D
2	0100011	AR	Compound, Locking	
3	0630464	2	Screw #10 x 1/2	
4	0630548	5	Screw, Self Tapping	
5	0641406	1	Bolt 1/4 x 3/4	
6	1320095	2	Clamp	
7	3310601	1	Nut #6	
8	3311001	2	Nut #10	
10	3740049	1	Relay	
11	4340832	1	Mount, Relay	
12	4360274	1	Switch, Gray Push Button	
13	4360328	9	Switch, Toggle	
14	4360387	1	Switch, Yellow Push Button	
15	4360475	1	Switch, Push-Pull Emergency	
15A	7020175	1	Cap	
15B	7020176	1	Block, Contact	
16	4360476	1	Block, Contact	
17	4460425	2	Connector, Strain Relief	
19	4460470	2	Nut, Terminal	
20	4460471	2	Washer, Terminal	
21	1001215836	1	Connector, Strain Relief	
22	4460837	1	Connector - 12 Pin	
23	4460874	1	Connector, White	
24	4460875	1	Connector, Gray	
25	4460892	1	Connector, Buss Bar - 6 Position	
26	4460905	16	Plug	
27	4460914	2	Base, Terminal	
28	4740397	9	Spacer, Washer	
29	4750600	1	Washer #6	
30	4751000	2	Washer #10	
31	4751400	11	Washer 1/4	
33	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
34	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
35	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
36	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
37	1001137364	1	Lamp, LED Indicator Green	
38	10836804	1	Gauge, Display	
39	1001176469	1	Shroud, Push Button Switch	
40	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
41	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
42	1001288112	1	Wiring Diagram (Not Shown)	
43	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
44	1001265856	1	Decal - MTB	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	1001265865	1	Box Assembly (See Items 101-110 for Breakdown)	
46	0760612	4	Bolt M6 x 25	
47	3290605	4	Nut, Lock M6	
48	3931616	2	Bolt 3/8 x 1	
49	4751600	2	Washer 3/8	
50	4811700	8	Washer M6	
51	8310070	2	Pushnut 3/8	
52	77143013	11	Nut 1/4	
53	1001219601	2	Sensor, Tilt Dual Axis CAN	
54	1001278483	1	Bracket, Tilt Sensor	
55	1001129334	1	Harness, Jumper (Not Shown)	
55	4460871	2	Socket	
	1001265865	Ref	BOX ASSEMBLY	C
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	5 in/2 m	Seal	
109	1001242373	2	Latch	
110	1001297396	1	Panel, MTB	

FIGURE 2-44. GROUND CONTROL ASSEMBLY - CHINA IV (CHINESE SPEC)

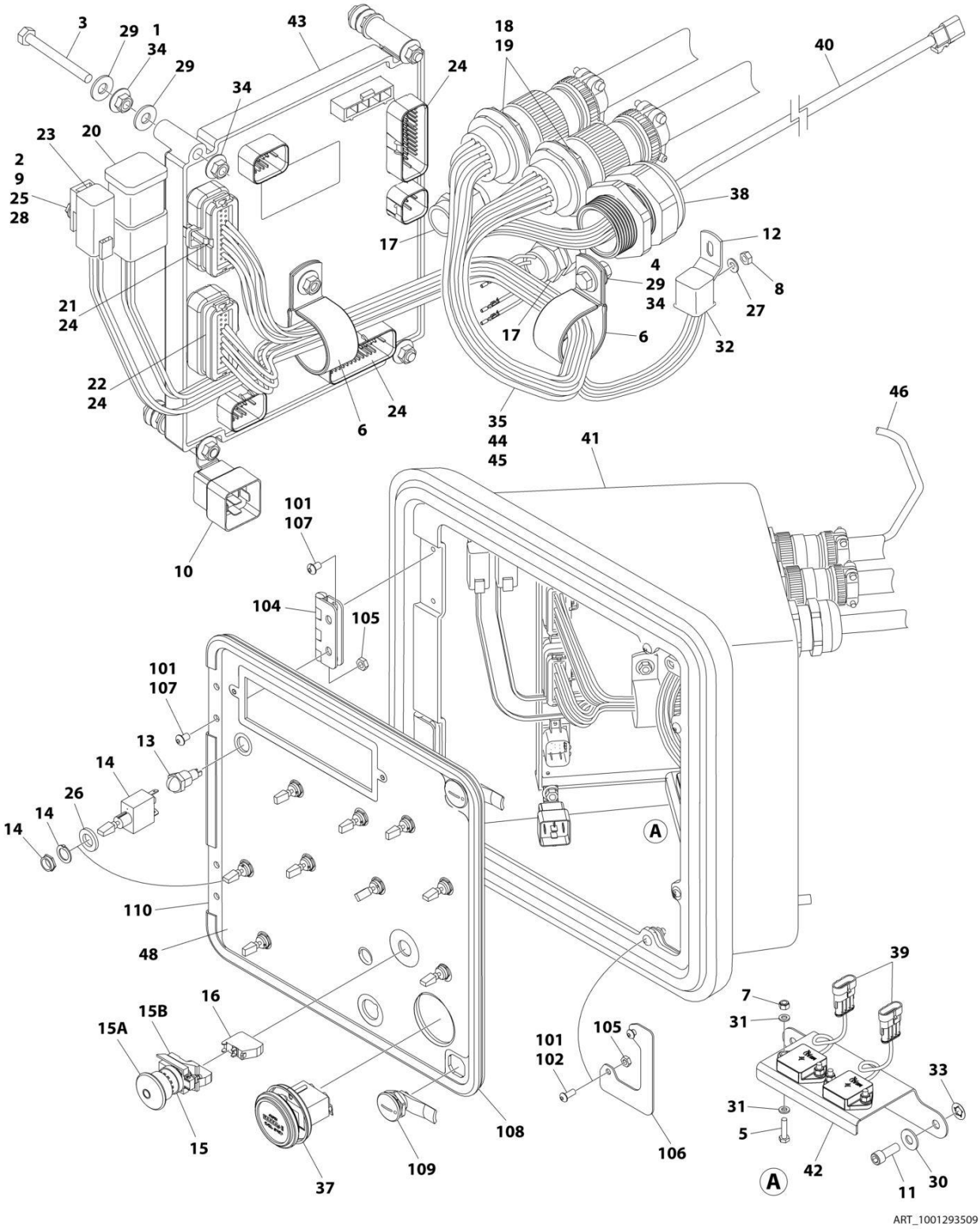


FIGURE 2-44. GROUND CONTROL ASSEMBLY - CHINA IV (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001293509	Ref	GROUND CONTROL ASSEMBLY	B
1	0100011	AR	Compound, Locking	
2	0630464	2	Screw #10 x 1/2	
3	0630548	5	Screw, Self Tapping	
4	0641406	1	Bolt 1/4 x 3/4	
5	0760612	4	Bolt M6 x 25	
6	1320095	2	Clamp	
7	3290605	4	Nut M6	
8	3310601	1	Nut #6	
9	3311001	2	Nut #10	
10	3740049	1	Relay	
11	3931616	2	Bolt 3/8 x 1	
12	4340832	1	Mount, Relay	
13	4360274	1	Switch, Gray Push Button	
14	4360328	9	Switch, Toggle	
15	4360475	1	Switch, Push-Pull Emergency	
15A	7020175	1	Cap	
15B	7020176	1	Block, Contact	
16	4360476	1	Block, Contact	
17	4460425	2	Connector, Strain Relief	
18	4460470	2	Nut, Terminal	
19	4460471	2	Washer, Terminal	
20	4460837	1	Connector	
21	4460874	1	Connector, White	
22	4460875	1	Connector, Gray	
23	4460892	1	Connector, Buss Bar	
24	4460905	16	Plug	
25	4460914	2	Base, Terminal	
26	4740397	9	Washer	
27	4750600	1	Washer #6	
28	4751000	2	Washer #10	
29	4751400	11	Washer 1/4	
30	4751600	2	Washer 3/8	
31	4811700	8	Washer M6	
32	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
33	8310070	2	Pushnut 3/8	
34	77143013	11	Nut 1/4	
35	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
36	1001129334	1	Harness, Jumper (Not Shown)	
37	10836804	1	Gauge, Display	
38	1001215836	1	Connector, Strain Relief	
39	1001219601	2	Sensor, Tilt Dual Axis CAN	
40	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
41	1001265865	1	Box Assembly (See Items 101-110 for Breakdown)	
42	1001278483	1	Bracket, Tilt Sensor	
43	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
45	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
46	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
47	1001288112	1	Wiring Diagram (Not Shown)	
48	1001293521	1	Decal - MTB China IV	
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	5 in/2 m	Seal	
109	1001242373	2	Latch	
110	1001265860	1	Panel, MTB	

FIGURE 2-45. GROUND CONTROL ASSEMBLY - CHINA IV (WITH TOWER STOW) (CHINESE SPEC)

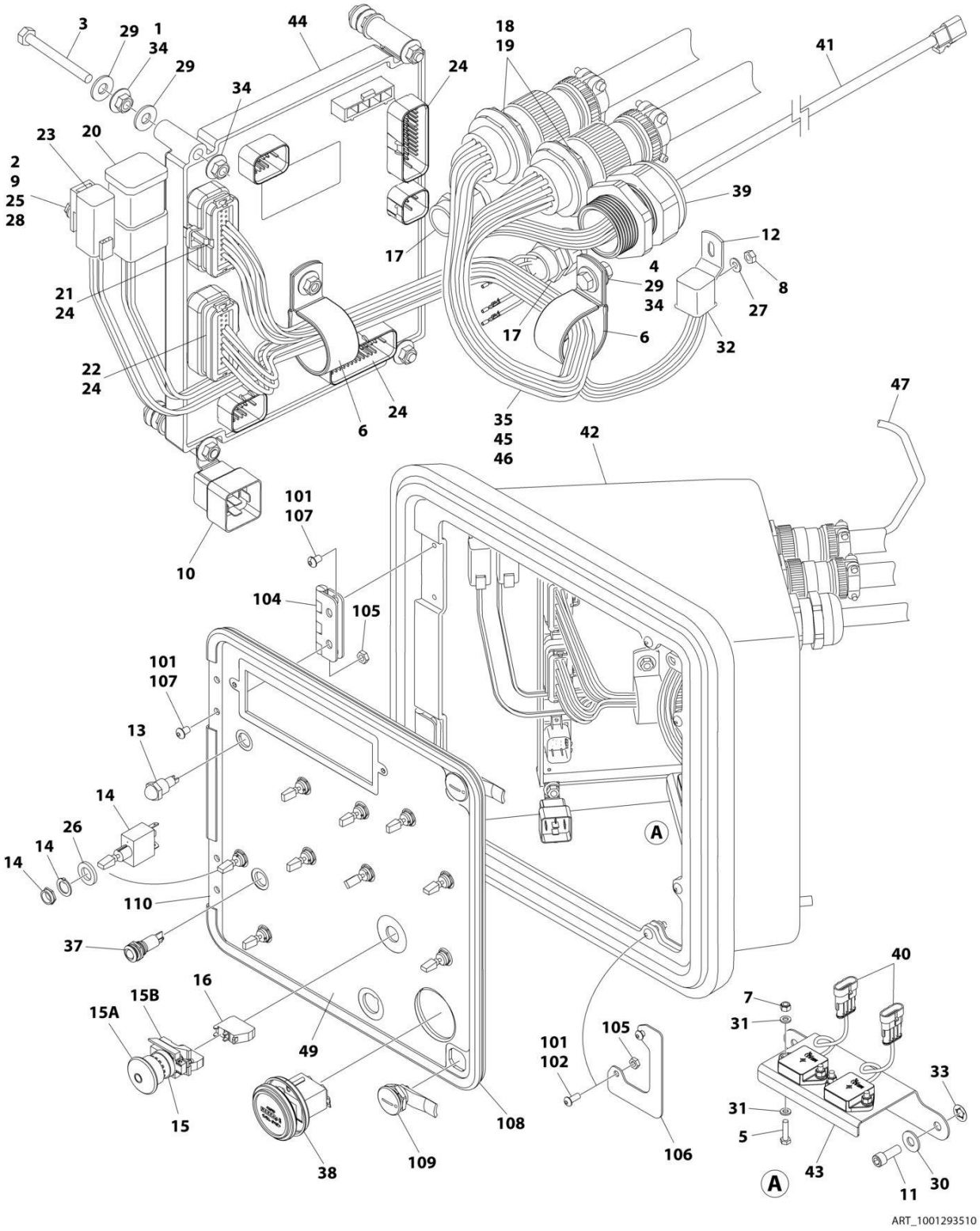


FIGURE 2-45. GROUND CONTROL ASSEMBLY - CHINA IV (WITH TOWER STOW) (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001293510	Ref	GROUND CONTROL ASSEMBLY	B
1	0100011	AR	Compound, Locking	
2	0630464	2	Screw #10 x 1/2	
3	0630548	5	Screw, Self Tapping	
4	0641406	1	Bolt 1/4 x 3/4	
5	0760612	4	Bolt M6 x 25	
6	1320095	2	Clamp	
7	3290605	4	Nut M6	
8	3310601	1	Nut #6	
9	3311001	2	Nut #10	
10	3740049	1	Relay	
11	3931616	2	Bolt 3/8 x 1	
12	4340832	1	Mount, Relay	
13	4360274	1	Switch, Gray Push Button	
14	4360328	9	Switch, Toggle	
15	4360475	1	Switch, Push-Pull Emergency	
15A	7020175	1	Cap	
15B	7020176	1	Block, Contact	
16	4360476	1	Block, Contact	
17	4460425	2	Connector, Strain Relief	
18	4460470	2	Nut, Terminal	
19	4460471	2	Washer, Terminal	
20	4460837	1	Connector	
21	4460874	1	Connector, White	
22	4460875	1	Connector, Gray	
23	4460892	1	Connector, Buss Bar	
24	4460905	16	Plug	
25	4460914	2	Base, Terminal	
26	4740397	9	Washer	
27	4750600	1	Washer #6	
28	4751000	2	Washer #10	
29	4751400	11	Washer 1/4	
30	4751600	2	Washer 3/8	
31	4811700	8	Washer M6	
32	4923036	1	Harness, Relay (See Separate Breakdown in ELECTRICAL Section)	
33	8310070	2	Pushnut 3/8	
34	77143013	11	Nut 1/4	
35	1001119529	1	Harness, Engine (See Separate Breakdown in ELECTRICAL Section)	
36	1001129334	1	Harness, Jumper (Not Shown)	
37	1001137364	1	Lamp, LED Indicator (Green)	
38	10836804	1	Gauge, Display	
39	1001215836	1	Connector, Strain Relief	
40	1001219601	2	Sensor, Tilt Dual Axis CAN	
41	1001228497	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
42	1001265865	1	Box Assembly (See Items 101-110 for Breakdown)	
43	1001278483	1	Bracket, Tilt Sensor	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	1001281100	1	Module, Ground Control (Note: Re-calibration Required when Replaced)	
45	1001285274	1	Harness, Valve (See Separate Breakdown in ELECTRICAL Section)	
46	1001287277	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL Section)	
47	1001288111	1	Harness, ClearSky Ready (See Separate Breakdown in ELECTRICAL Section)	
48	1001288112	1	Wiring Diagram (Not Shown)	
49	1001293522	1	Decal - MTB China IV	
101	0100011	AR	Compound, Locking	
102	0630407	4	Screw 1/4 x 5/8	
104	2600279	2	Hinge	
105	3311402	8	Nut 1/4	
106	3573144	2	Plate, Latch	
107	3900251	8	Screw 1/4 x 3/8	
108	3960418	5 in/2 m	Seal	
109	1001242373	2	Latch	
110	1001265860	1	Panel, MTB	

FIGURE 2-46. KEYSWITCH INSTALLATION

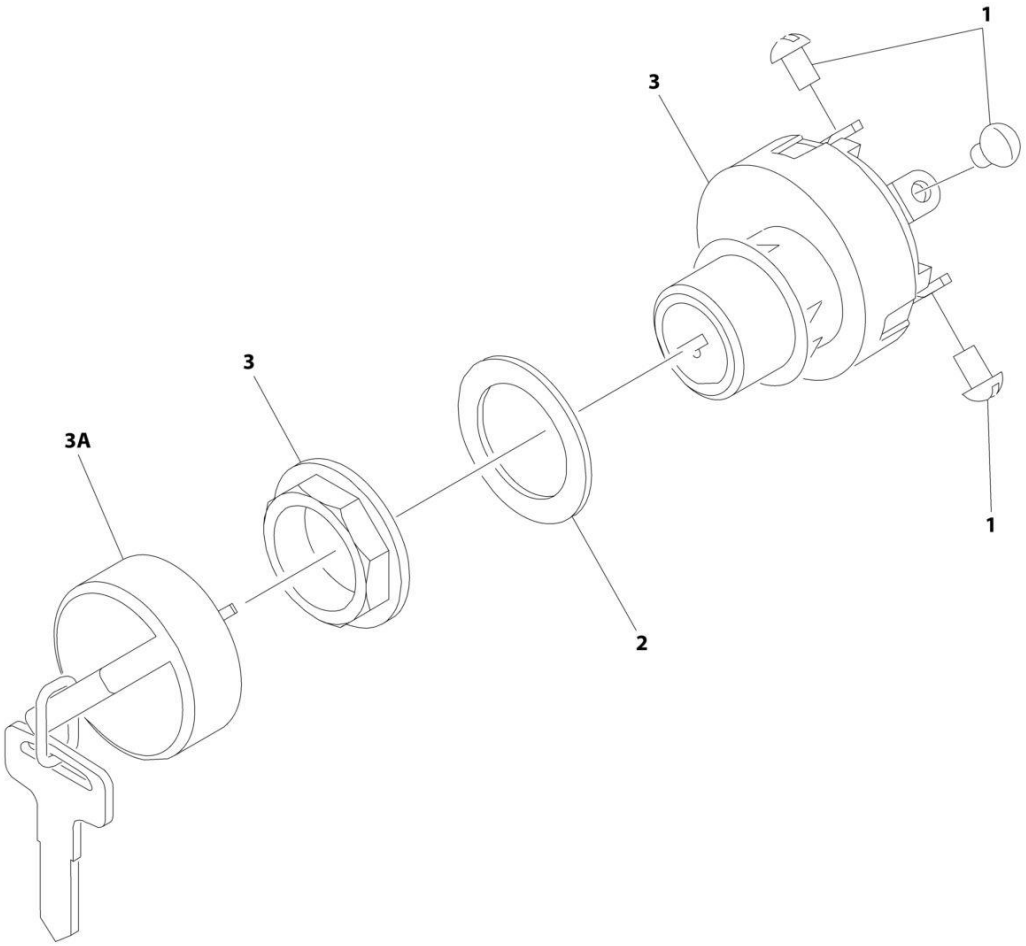


FIGURE 2-46. KEYSWITCH INSTALLATION

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	

FIGURE 2-47. LIGHT PANEL INSTALLATION

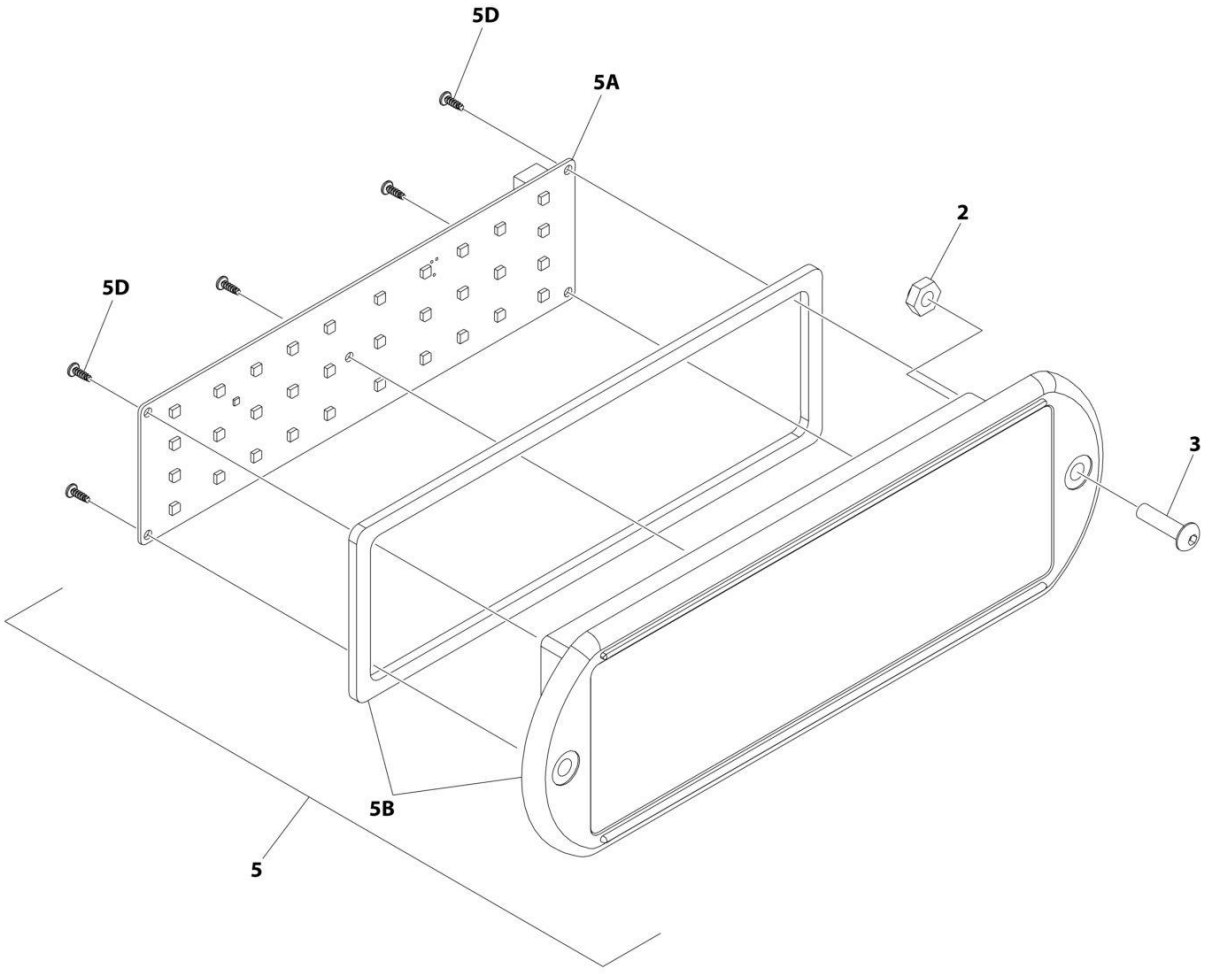


FIGURE 2-47. LIGHT PANEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233959	Ref	LIGHT PANEL INSTALLATION	D
2	3300408	2	Nut, Nylon Insert	
3	0630518	2	Screw #10 x 3/4	
5	1001237546	1	Light Panel Assembly	J
5A	1001282106	1	Panel, LED Light	
5B	1001236091	1	Lens, Icon (Includes Gasket)	
5D		Ref	Screw	

FIGURE 2-48. ALARMS INSTALLATION

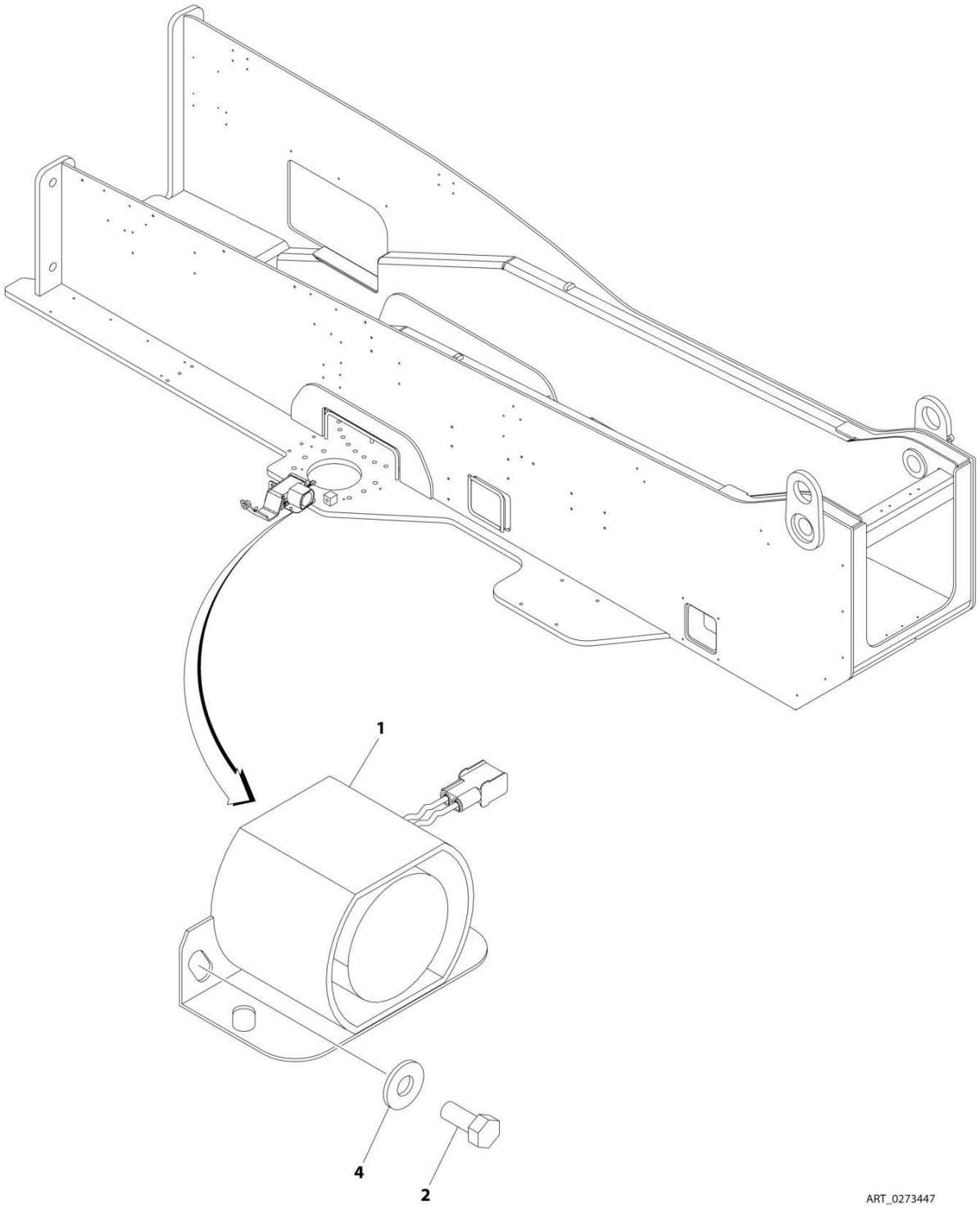


FIGURE 2-48. ALARMS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273447	Ref	ALARMS INSTALLATION	B
1	0257887	1	Alarm	
1	0140032	1	Alarm	
1	2820035	6 in/15cm	Loom	
1	4460424	1	Plug	
1	4460268	2	Socket, Female	
2	0641506	2	Bolt 6/16 x 3/4	
4	4751500	AR	Washer 5/16	

FIGURE 2-49. BACKUP ALARM (WHITE NOISE) INSTALLATION

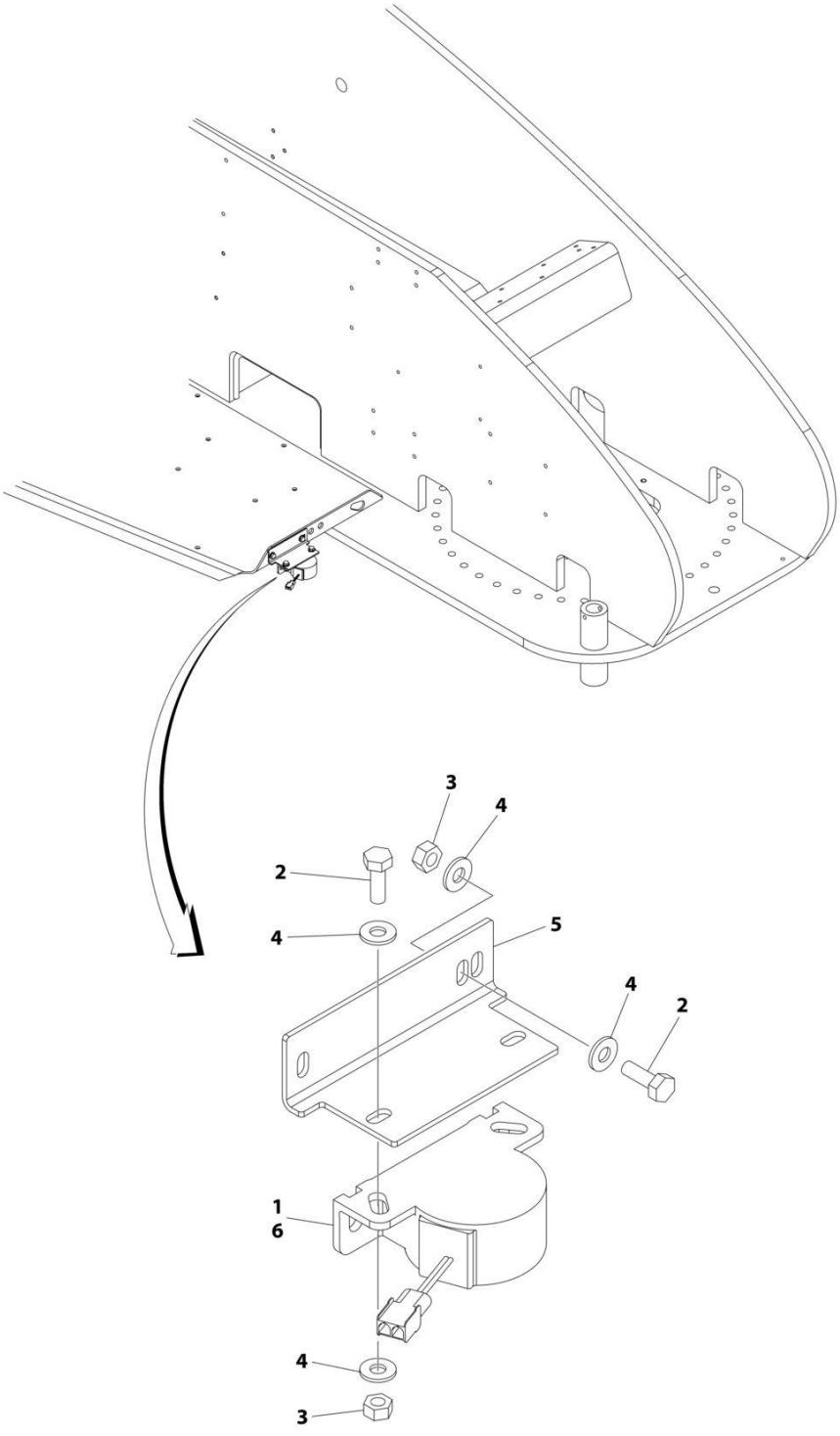


FIGURE 2-49. BACKUP ALARM (WHITE NOISE) INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001239281	Ref	BACKUP ALARM (WHITE NOISE) INSTALLATION	A
1	0100048	AR	Grease, Dielectric	
2	0641406	4	Bolt 1/4 x 3/4	
3	3311405	4	Nut 1/4	
4	4711400	8	Washer 1/4	
5	1001231886	1	Plate	
6	1001243734	1	Alarm	
6	1001184682	1	Alarm	
6	4460424	1	Plug	
6	4460268	2	Socket, Female	

FIGURE 2-50. BACKUP ALARM AMBIENT (WHITE NOISE) INSTALLATION

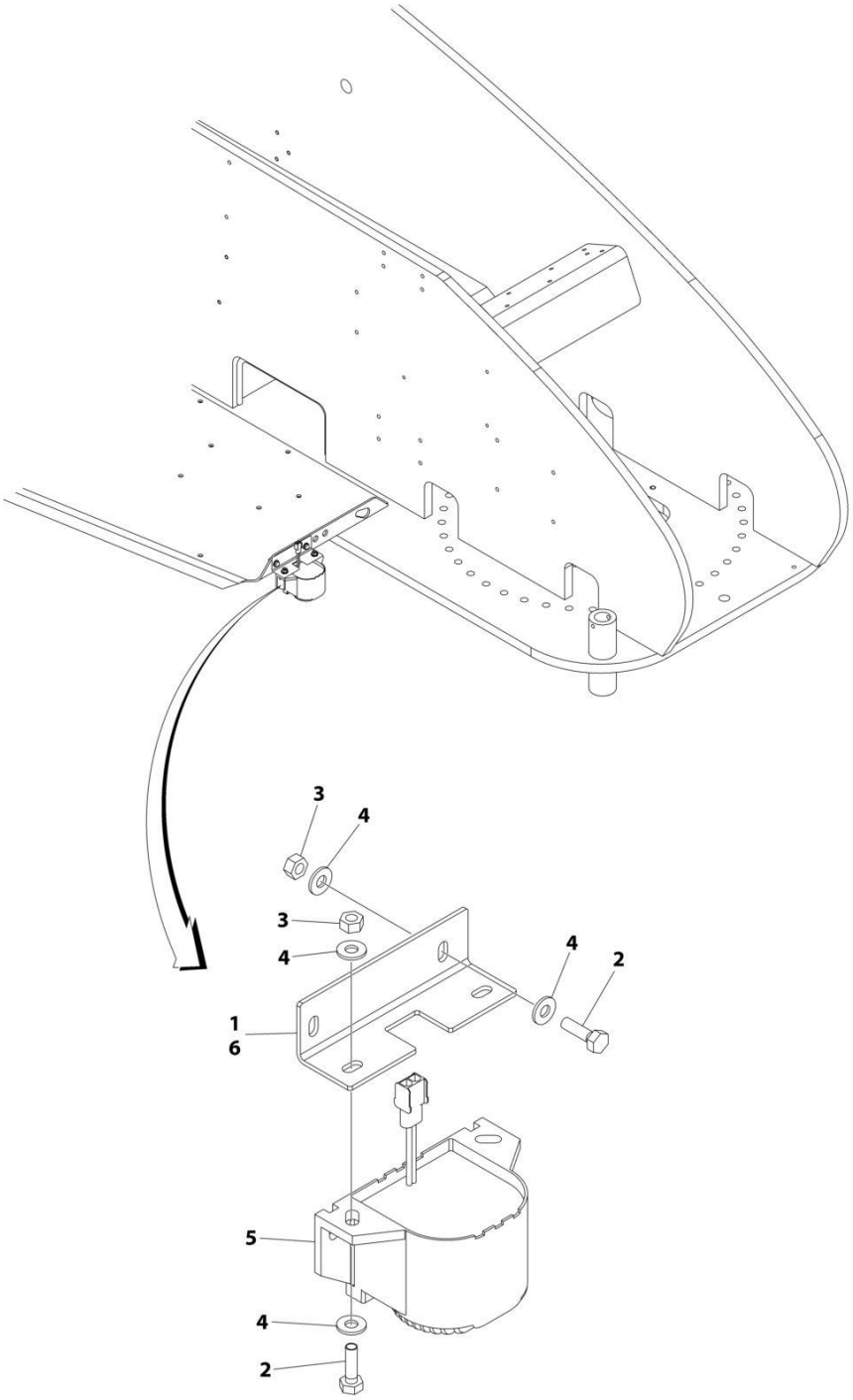


FIGURE 2-50. BACKUP ALARM AMBIENT (WHITE NOISE) INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241383	Ref	ALARM AMBIENT (WHITE NOISE) INSTALLATION	A
1	0100048	AR	Grease, Dielectric	
2	0641407	4	Bolt 1/4 x 7/8	
3	3311405	4	Nut 1/4	
4	4711400	8	Washer 1/4	
5	1001243731	1	Alarm	
5	1001182806	1	Alarm	
5	4460424	1	Plug	
5	4460268	2	Socket, Female	
6	1001243849	1	Plate	

FIGURE 2-51. STROBE LIGHT INSTALLATION (AMBER)

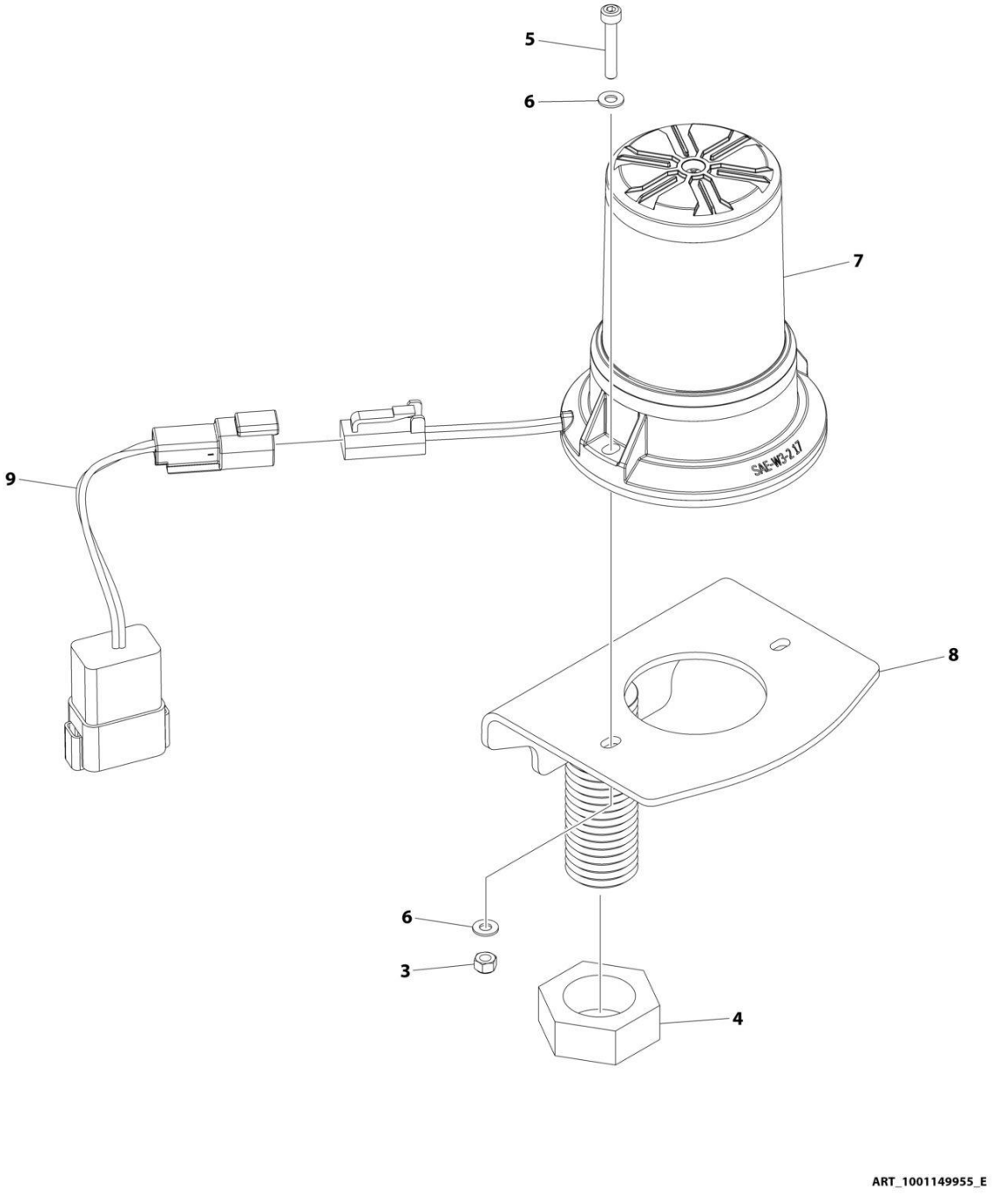


FIGURE 2-51. STROBE LIGHT INSTALLATION (AMBER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001149955	Ref	STROBE LIGHT INSTALLATION - AMBER	E
3	3290405	2	Nut, Lock M4	
4	3312602	1	Nut	
5	4031509	2	Capscrew M4 x 25	
6	4811400	4	Washer M4	
7	1001270594	1	Light, Strobe (Amber)	
7	4460891	1	Connector	
7	4460465	2	Pin	
8	1001275149	1	Bracket	
9	1001283776	1	Harness, Strobe Light (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 2-52. STROBE LIGHT INSTALLATION (BLUE)

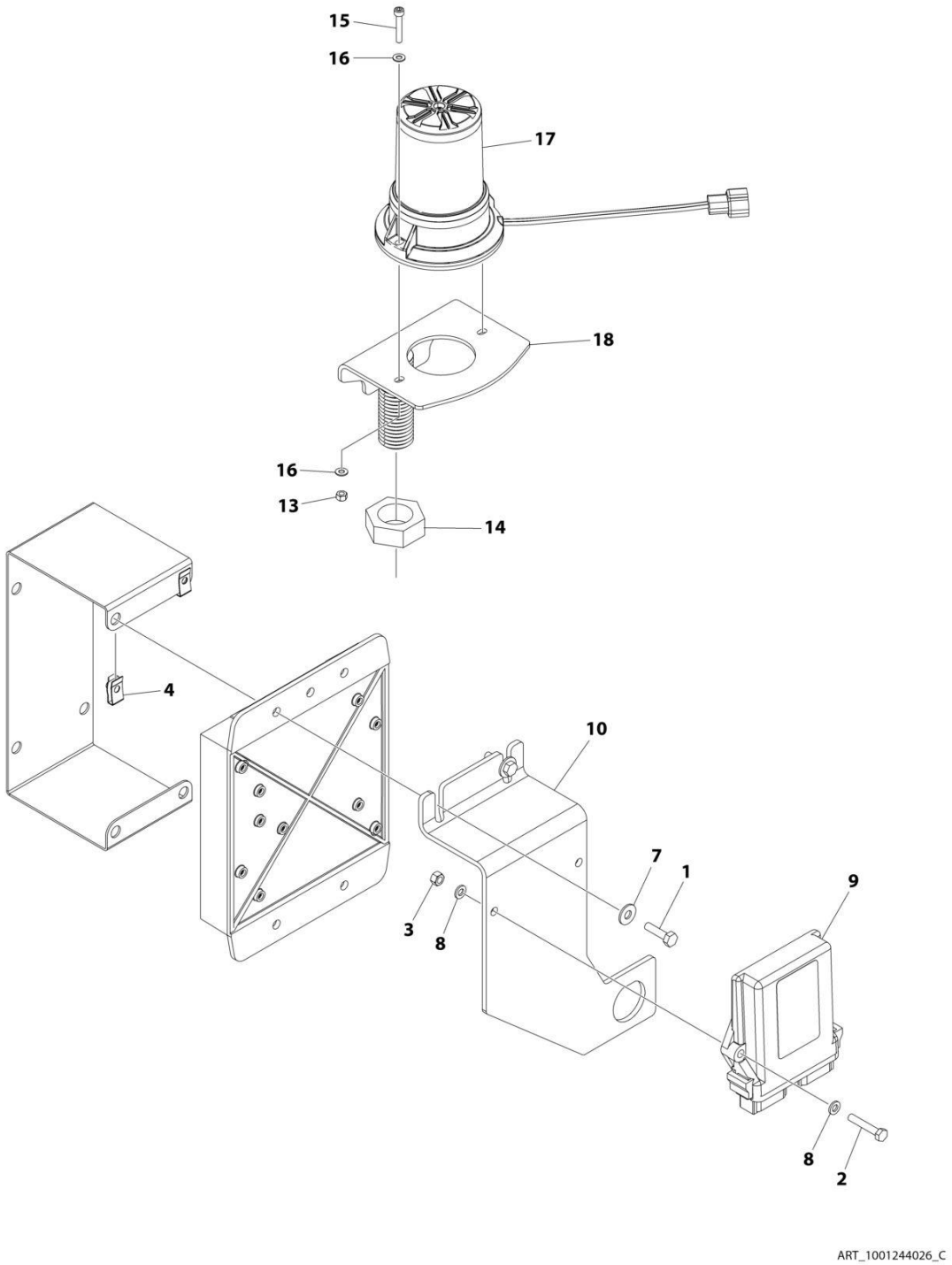


FIGURE 2-52. STROBE LIGHT INSTALLATION (BLUE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244026	Ref	STROBE LIGHT INSTALLATION (BLUE)	C
1	0641408	2	Bolt 1/4 x 1	
2	0700615	2	Bolt M6 x 35	
3	3290607	2	Nut M6 x 1	
4	3300454	2	Nut 1/4	
5	4240032	AR	Tie-Strap (Not Shown)	
6	4460488	AR	Mounting Base (Not Shown)	
7	4751400	2	Washer 1/4	
8	4811700	4	Washer M6	
9	1001142683	1	Module, Control Beacon	
10	1001142719	1	Bracket	
12	1001142736	1	Harness, Beacon Control (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
13	3290405	2	Nut, Lock M4	
14	3312602	1	Nut	
15	4031509	2	Capscrew M4 x 25	
16	4811400	4	Washer M4	
17	1001272681	1	Light, Beacon	
17	4460897	1	Connector	
17	4460464	2	Pin	
18	1001278850	1	Bracket (Centered Stud)	
18	1001275149	1	Bracket (Offset Stud)	

FIGURE 2-53. STROBE LIGHT INSTALLATION (RED)

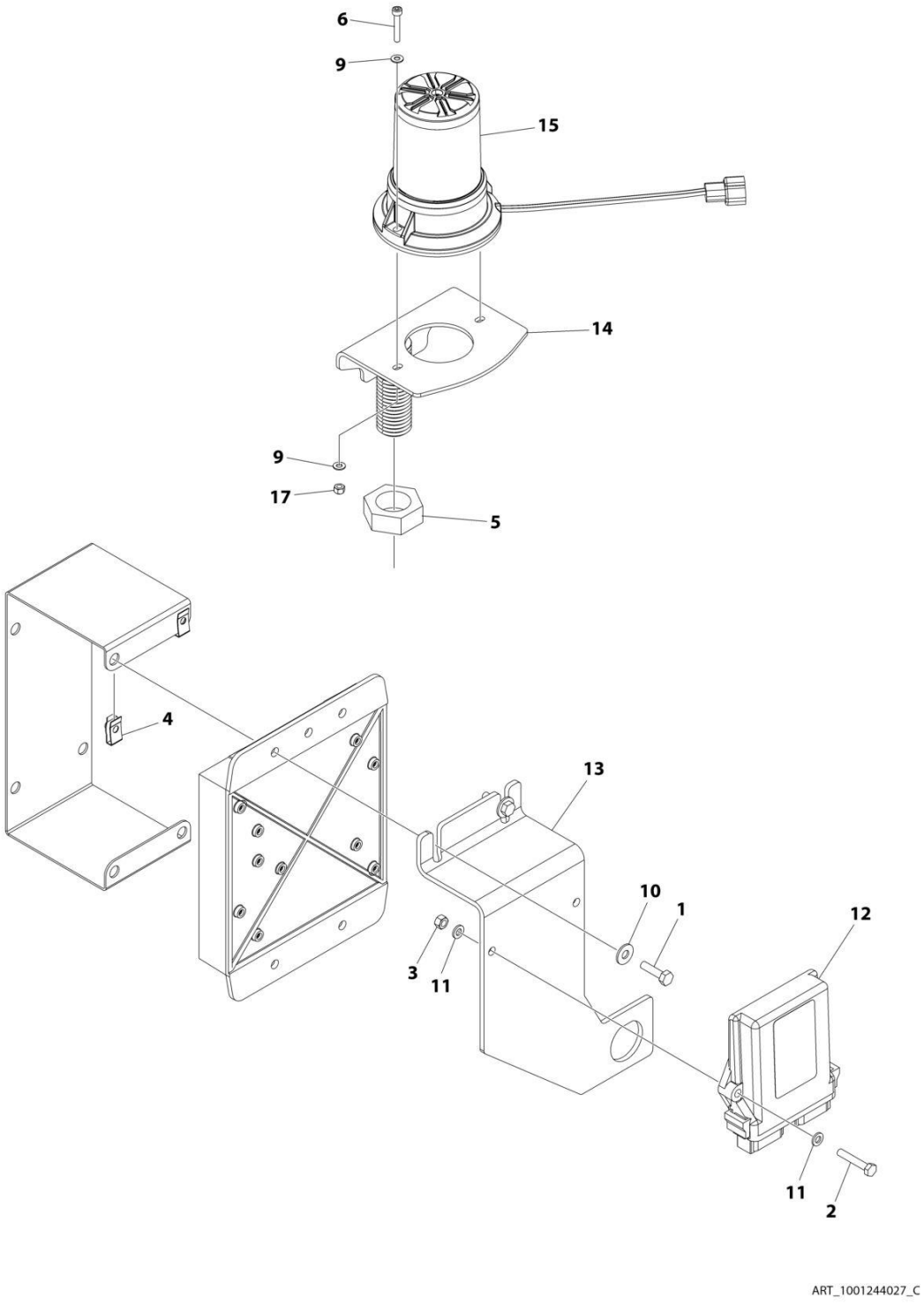


FIGURE 2-53. STROBE LIGHT INSTALLATION (RED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244027	Ref	STROBE LIGHT INSTALLATION (RED)	C
1	0641408	2	Bolt 1/4 x 1	
2	0700615	2	Bolt M6 x 35	
3	3290607	2	Nut M6 x 1	
4	3300454	2	Nut	
5	3312602	1	Nut	
6	4031509	2	Capscrew M4 x 25	
7	4240032	AR	Tie-Strap (Not Shown)	
8	4460488	AR	Mounting Base (Not Shown)	
9	4811400	4	Washer M4	
10	4751400	2	Washer 1/4	
11	4811700	4	Washer M6	
12	1001142683	1	Module, Control Beacon	
13	1001142719	1	Bracket	
14	1001278850	1	Bracket (Centered Stud)	
14	1001275149	1	Bracket (Offset Stud)	
15	1001272682	1	Light, Strobe	
15	4460897	1	Connector	
15	4460464	2	Pin	
16	1001142736	1	Harness, Beacon Control (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
17	3290405	2	Nut, Lock M4	

FIGURE 2-54. ENGINE TRAY JACK INSTALLATION - DEUTZ TD2011 ENGINES

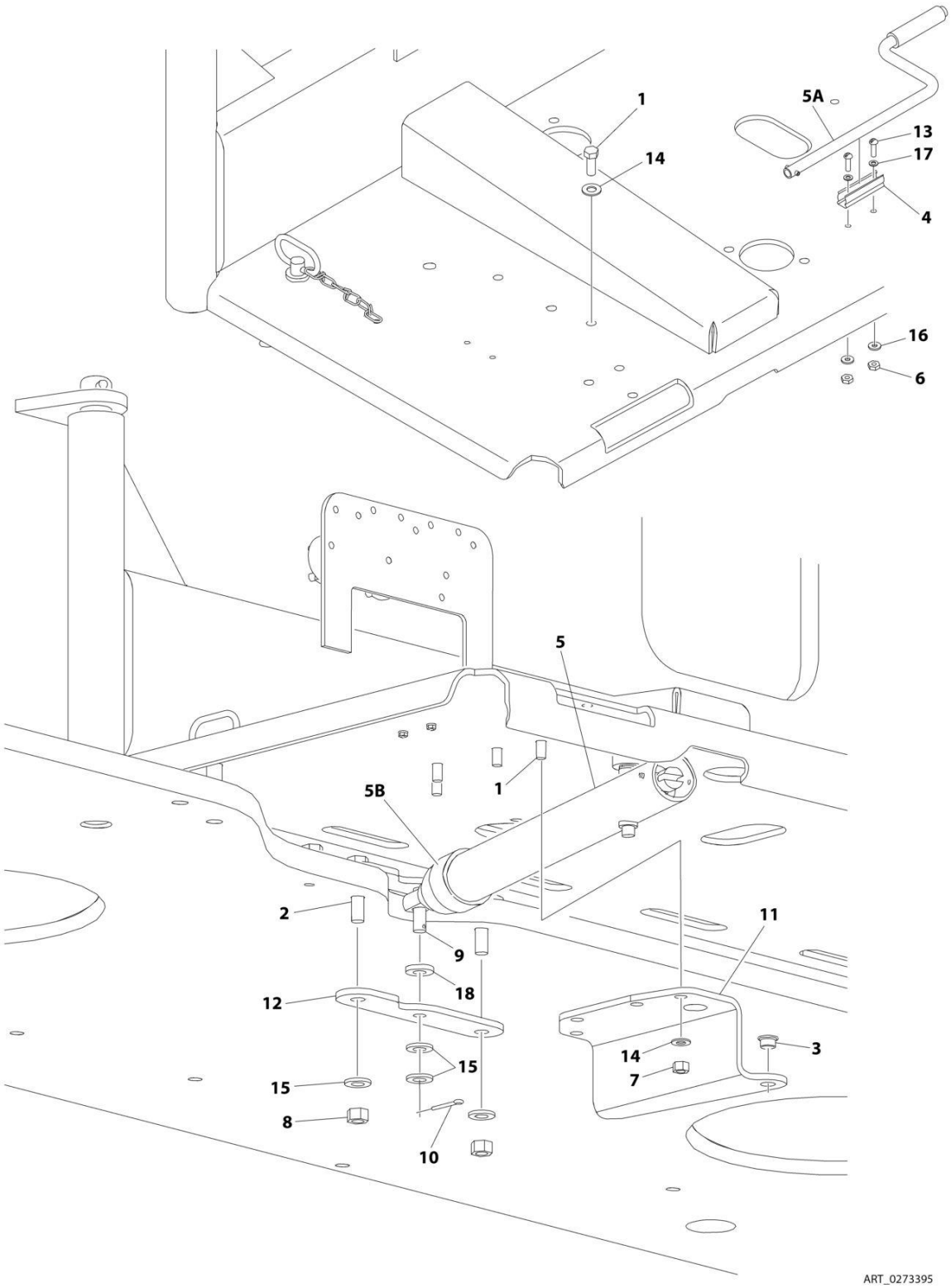


FIGURE 2-54. ENGINE TRAY JACK INSTALLATION - DEUTZ TD2011 ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273395	Ref	ENGINE TRAY JACK INSTALLATION - DEUTZ TD2011 ENGINES	B
1	0641608	4	Bolt 3/8 x 1	
2	0641818	2	Bolt 1/2 x 2-1/4	
3	0962051	2	Bearing, Flanged	
4	1380147	1	Clip, Spring	
5	2840016	1	Jack and Handle Assembly	
5A		Ref	Handle Options:	
5A	7016374	1	Burr Manufacturing Brand	
5A	7024598	1	Hammerblow Corp Brand	
5B	7016322	1	Wiper (Burr Manufacturing Brand Only)	
6	3310601	2	Nut #6	
7	3311605	4	Nut 3/8	
8	3311805	2	Nut 1/2	
9	3430816	1	Pin, Clevis	
10	3450404	1	Pin, Cotter 1/8 x 1	
11	3537445	1	Bracket	
12	3574492	2	Plate	
13	3910608	2	Screw #6 x 1/2	
14	4711600	8	Washer 3/8	
15	4711800	4	Washer 1/2	
16	4750600	2	Washer #6	
17	4770600	2	Starwasher #6	
18	4891800	1	Washer 1/2	

FIGURE 2-55. ENGINE TRAY JACK INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

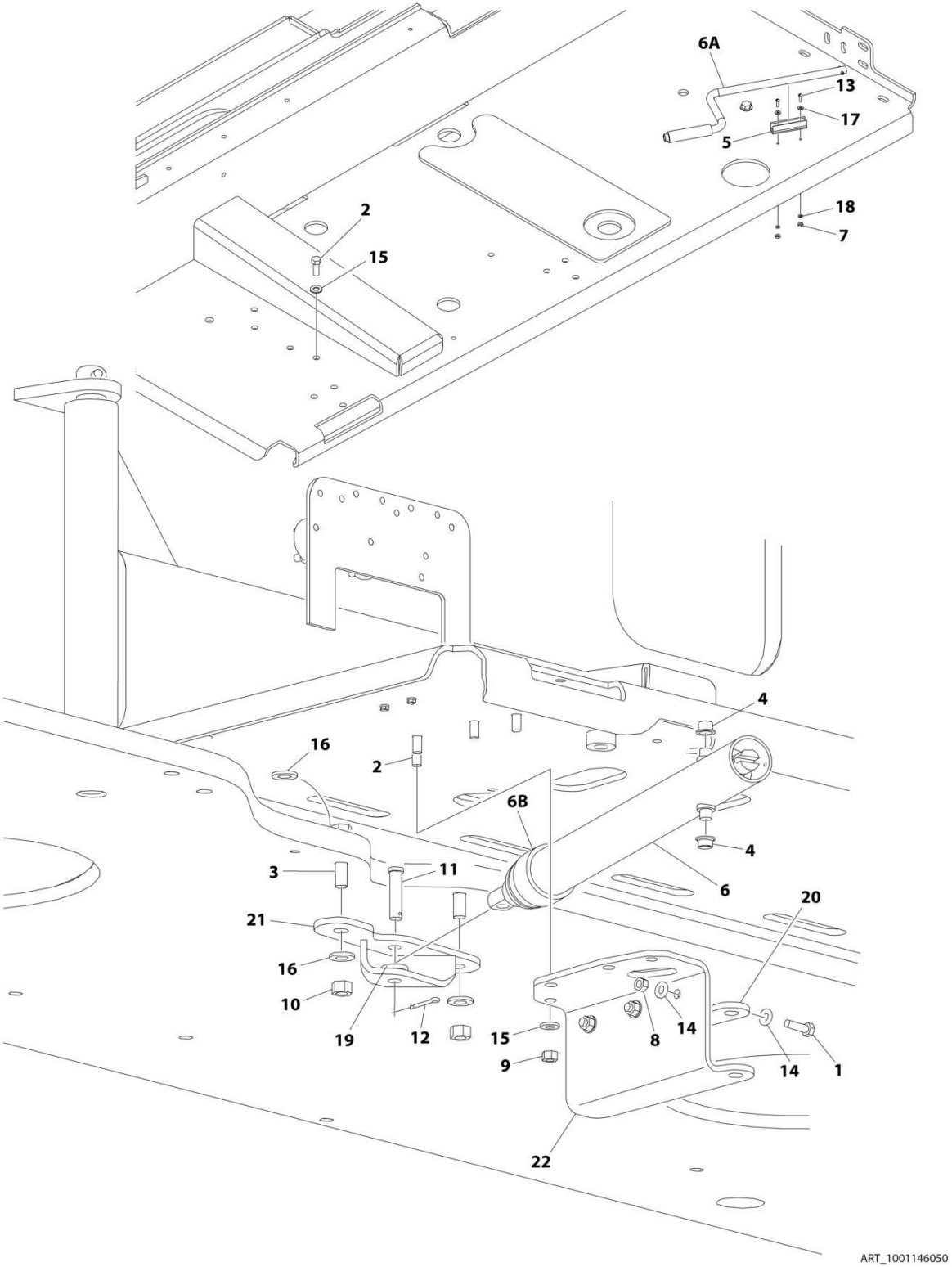
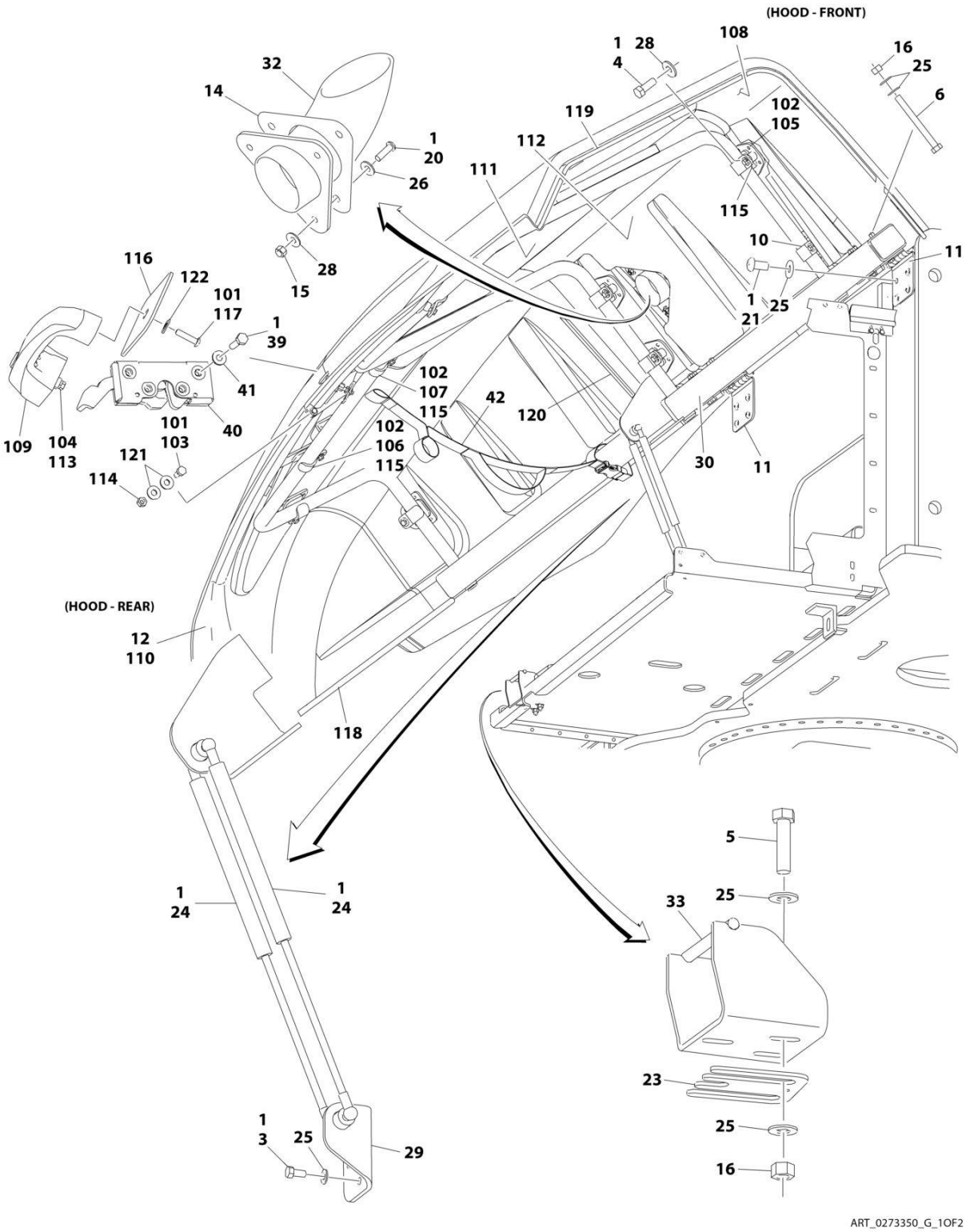


FIGURE 2-55. ENGINE TRAY JACK INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001146050	Ref	ENGINE TRAY JACK INSTALLATION - DEUTZ TCD2.9L4 ENGINES	B
1	0641509	3	Bolt 5/16 x 1-1/8	
2	0641608	4	Bolt 3/8 x 1	
3	0641816	2	Bolt 1/2 x 2	
4	0962051	2	Bearing, Flanged	
5	1380147	1	Clip, Spring	
6	2840016	1	Jack and Handle Assembly	
6A		Ref	Handle Options:	
6A	7016374	1	Burr Manufacturing Brand (Identified by 4in handle offset)	
6A	7024598	1	Hammerblow Corp Brand (Identified by 4-1/2in handle offset)	
6B	7016322	1	Wiper (Burr Manufacturing Brand Only)	
7	3310601	2	Nut #6	
8	3311505	3	Nut 5/16	
9	3311605	4	Nut 3/8	
10	3311805	2	Nut 1/2	
11	3430816	1	Pin, Clevis	
12	3450404	1	Pin, Cotter 1/8 x 1	
13	3910608	2	Screw #6 x 1/2	
14	4711500	6	Washer 5/16	
15	4711600	8	Washer 3/8	
16	4711800	4	Washer 1/2	
17	4750600	2	Washer #6	
18	4770600	2	Starwasher #6	
19	4891800	1	Washer 1/2	
20	1001131482	1	Plate, Jack Bracket	
21	1001135497	1	Support, Engine Tray Jack	
22	1001143298	1	Plate, Jack Bracket	

FIGURE 2-56. HOODS INSTALLATION - DEUTZ TD2011 ENGINES



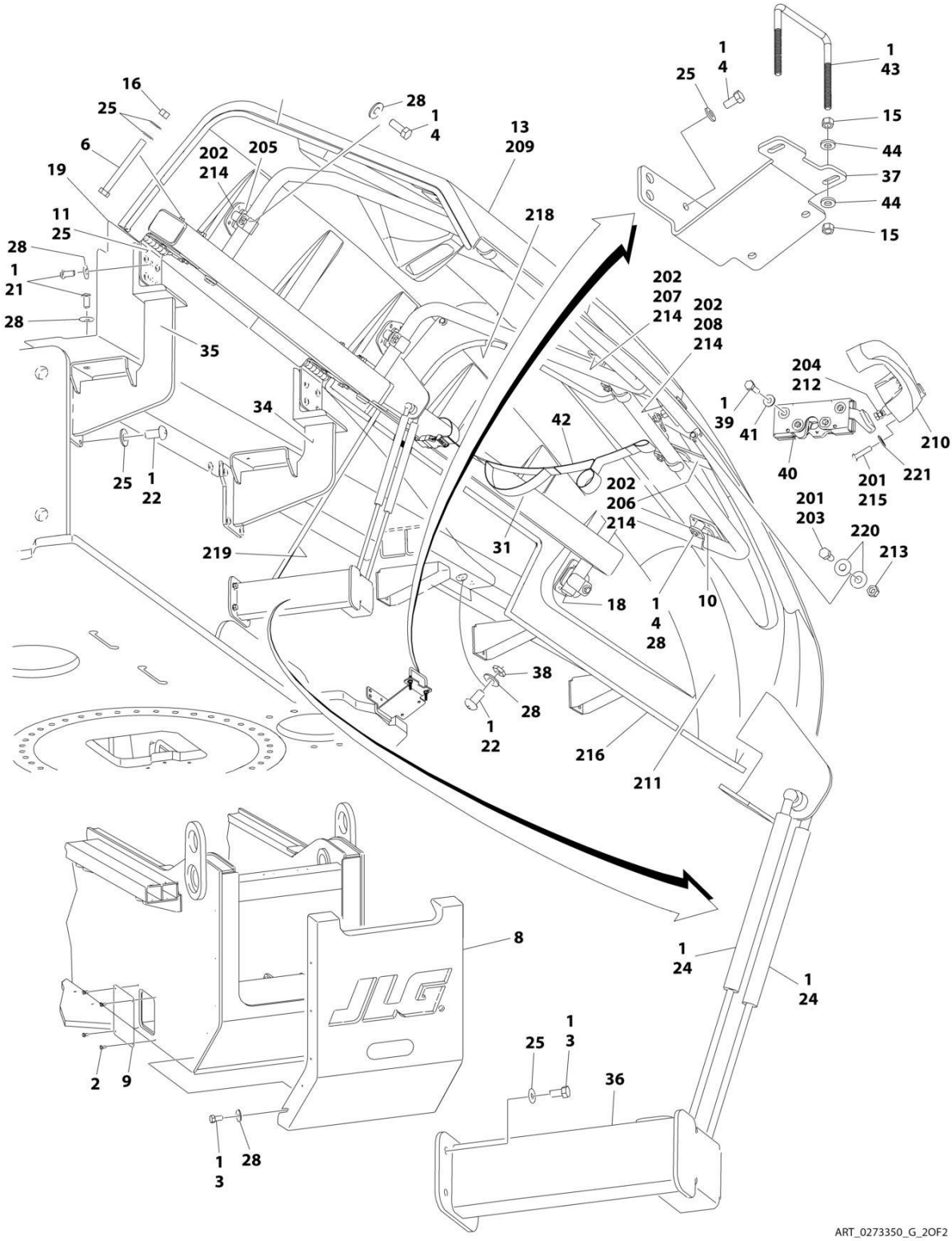
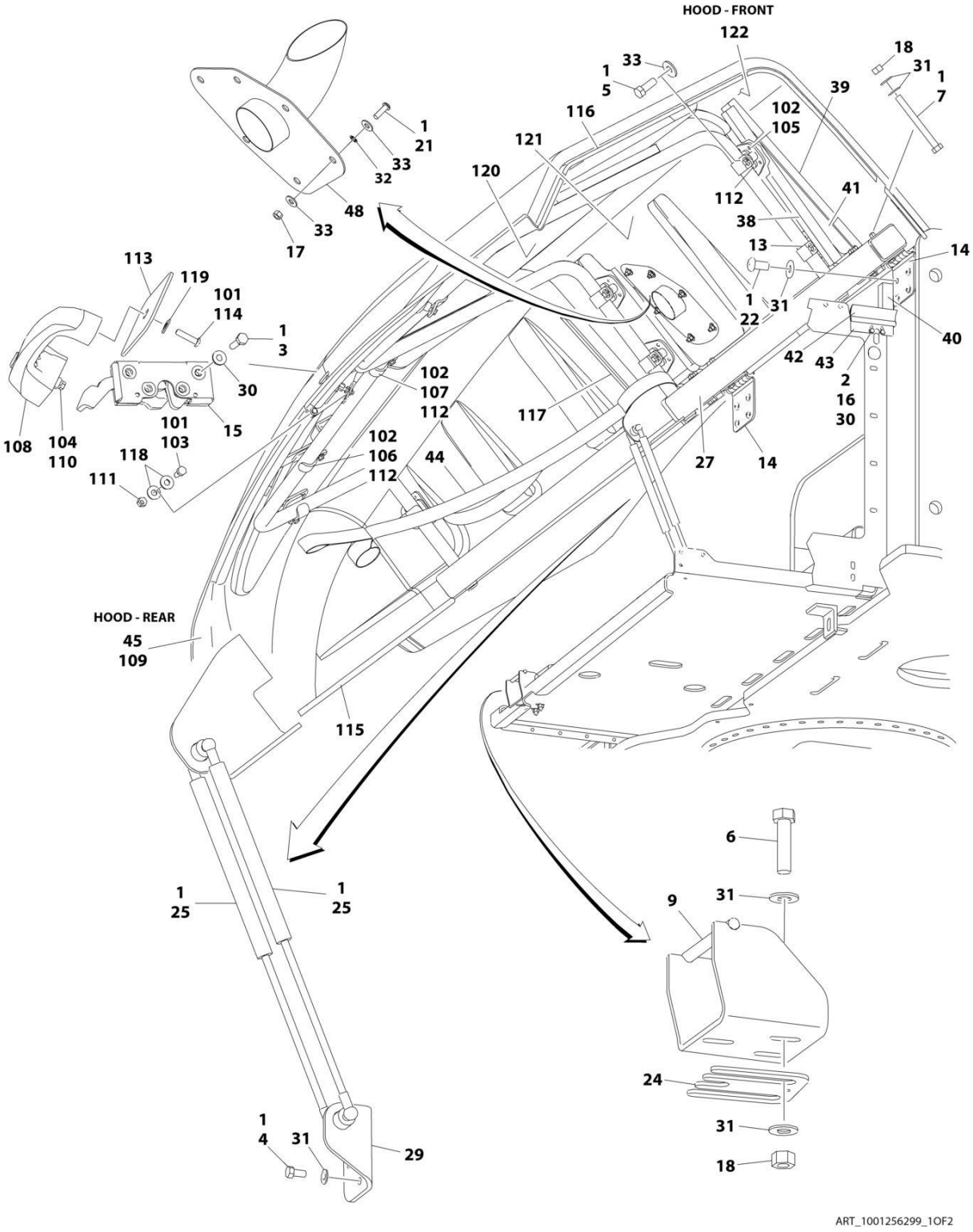

ART_0273350_G_2OF2

FIGURE 2-56. HOODS INSTALLATION - DEUTZ TD2011 ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273350	Ref	HOODS INSTALLATION - DEUTZ TD2011 ENGINES	G
1	0100011	AR	Compound, Locking	
2	0791605	8	Screw 3/8 x 3/4	
3	0641606	17	Bolt 3/8 x 3/4	
4	0641608	19	Bolt 3/8 x 1	
5	0641610	3	Bolt 3/8 x 1-1/4	
6	0641630	12	Bolt 3/8 x 3-3/4	
8	1671109	1	Cover, Turntable	
9	1671118	2	Cover, Pin Access	
10	2080051	16	Clamp	
11	2600280	4	Hinge	
12	1671192	1	Hood, Engine Side (See Items 101-122 for Breakdown)	
		Ref	Note: Replacement Decals Must Be Ordered Separately - See DECAL SECTION.	
13	1671194	1	Hood, Tank Side (See Items 201-221 for Breakdown)	
		Ref	Note: Replacement Decals Must Be Ordered Separately - See DECAL SECTION.	
14	2820141	1	Shield, Heat	
15	3311601	7	Nut 3/8	
16	3311605	15	Nut 3/8	
18	3520186	6	Plug	
19	3574533	1	Trough, Powertrack	
20	3900232	3	Screw 3/8 x 1-1/4	
21	3900283	29	Screw 3/8 x 3/4	
22	3900316	10	Screw 3/8 x 1	
23	4071048	3	Shim	
24	4160194	4	Spring, Gas	
25	4711600	64	Washer 1/4	
26	4740500	3	Washer, Nylon	
28	4751600	47	Washer 3/8	
29	4341001	1	Mount, Gas Spring	
30	4340996	1	Support, Engine Side Hood	
31	4340995	1	Support, Tank Side Hood	
32	4846503	1	Stack, Exhaust	
33	0903154	1	Bracket, Latch	
34	4846871	1	Support, Front Hood	
35	4846872	1	Support, Rear Hood	
36	4341000	1	Mount, Gas Spring	
37	1001250301	1	Bracket, Tank Side Striker	
38	88662523	2	Nut, Tinnerman Only	
39	0641408	8	Bolt 1/4 x 1	
40	2940173	2	Latch, Rotary	
41	4711400	AR	Washer 1/4	
42	1001160505	2	Strap	
43	1001243414	1	U - Bolt	
44	4891600	4	Washer 3/8	
	1671192	Ref	ENGINE SIDE HOOD ASSEMBLY	B
101	0100011	AR	Compound, Locking	
102	0100081	AR	Adhesive	
103	0641506	10	Bolt 5/16 x 3/4	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	0760608	1	Bolt M6 x 16	
105	0902746	7	Bracket	
106	0902761	1	Bracket	
107	0903161	1	Bracket	
108	1671191	1	Hood, Engine Side Front	
109	2560187	1	Handle	
110	2680496	1	Hood, Engine Side Rear	
111	2820145	1	Insulation, Sound Absorbing	
112	2820146	1	Insulation, Noise Absorbing	
113	3290601	1	Nut M6 x 1	
114	3311501	10	Nut 5/16	
115	3340877	9	Pad	
116	3575782	1	Plate	
117	3900363	2	Screw M6 x 25	
118	3960464	12.1 ft /3.7m	Seal	
119	4060804	5.1 ft /1.6m	Shield, Flex Trim	
120	4060806	4.1 ft /1.2m	Shield, Flex Trim	
121	4751500	20	Washer 5/16	
122	4811900	2	Washer M8	
	1671194	Ref	TANK SIDE HOOD ASSEMBLY	A
201	0100011	AR	Compound, Locking	
202	0100081	AR	Adhesive	
203	0641506	9	Bolt 5/16 x 3/4	
204	0760608	1	Bolt M6 x 16	
205	0902746	4	Bracket	
206	0902762	1	Bracket	
207	0902763	1	Bracket	
208	0903162	1	Bracket	
209	1671193	1	Hood, Tank Side Front	
210	2560187	1	Handle	
211	2680498	1	Hood, Tank Side Rear	
212	3290601	1	Nut M6 x 1	
213	3311501	9	Nut 5/16	
214	3340877	7	Pad	
215	3900363	2	Screw M6 x 25	
216	3960464	12.4 ft /3.8m	Seal	
217	4060804	4.4 ft /1.3m	Shield, Flex Trim	
218	4060806	3.3 ft/1m	Shield, Flex Trim	
219	4240150	1	Strap	
220	4751500	18	Washer 5/16	
221	4811900	2	Washer M8	

FIGURE 2-57. HOODS INSTALLATION - DEUTZ TCD2.9L4 ENGINES



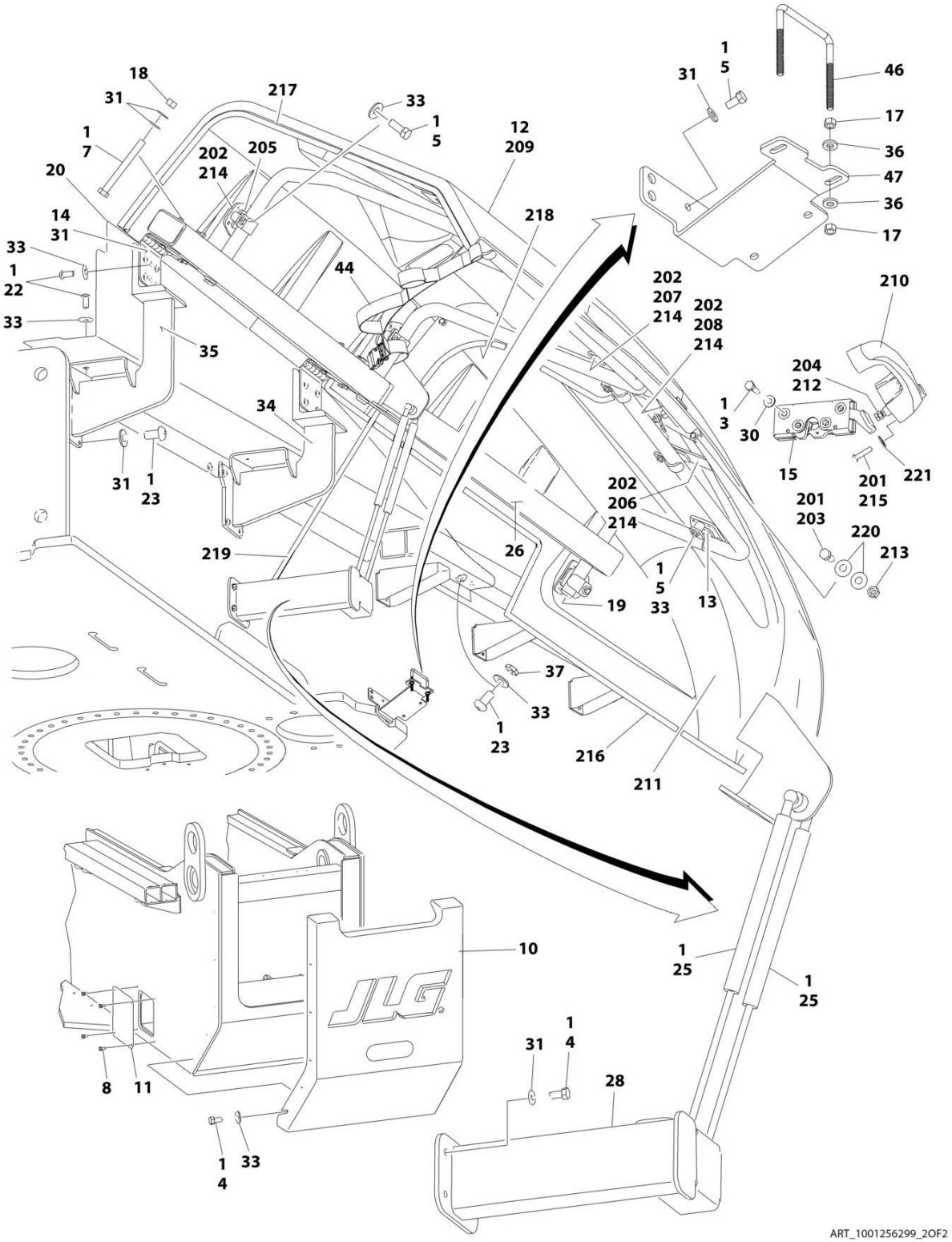
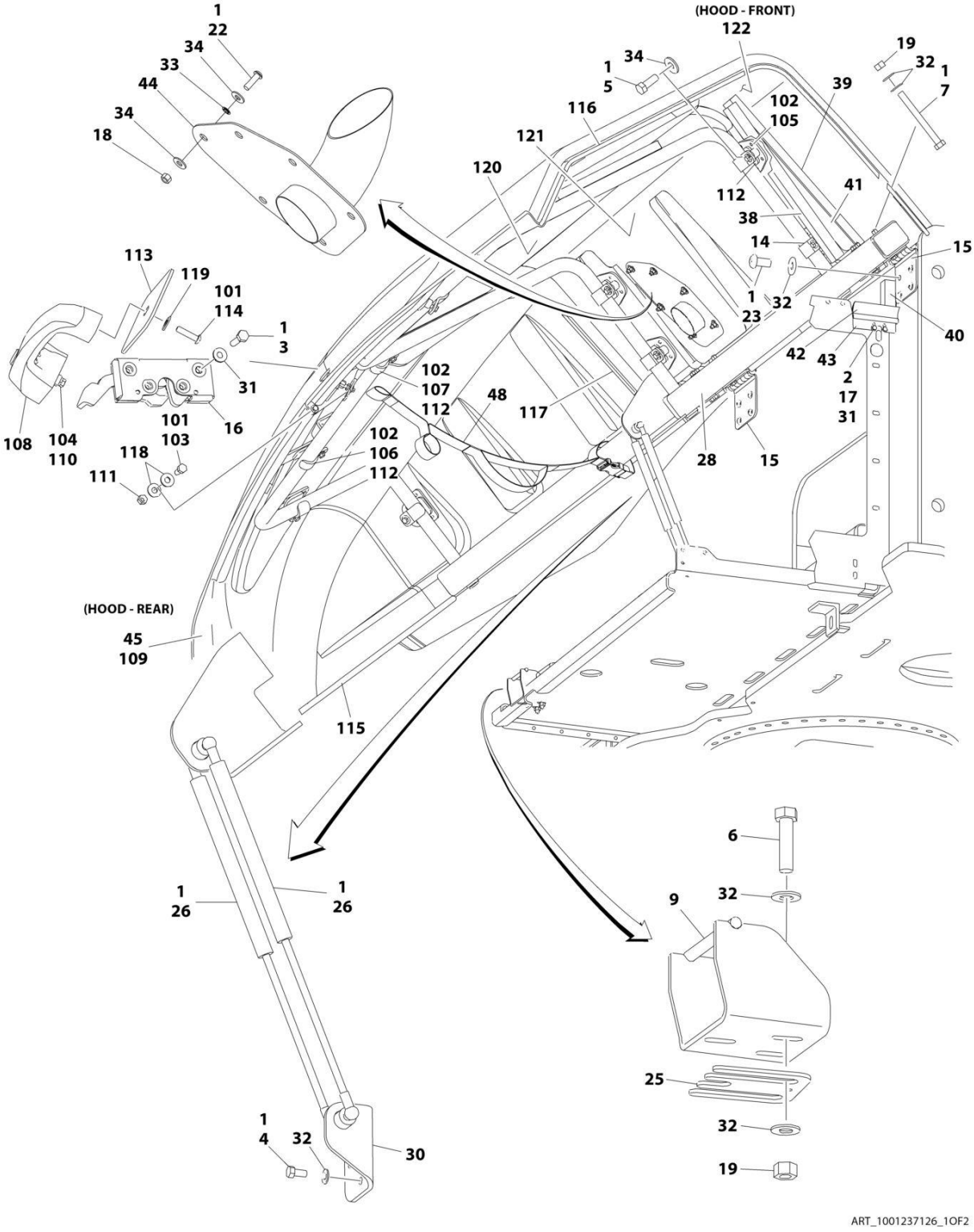

ART_1001256299_2OF2

FIGURE 2-57. HOODS INSTALLATION - DEUTZ TCD2.9L4 ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001256299	Ref	HOODS INSTALLATION - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES	A
1	0100011	AR	Compound, Locking	
2	0641406	2	Bolt 1/4 x 3/4	
3	0641408	8	Bolt 1/4 x 1	
4	0641606	17	Bolt 3/8 x 3/4	
5	0641608	19	Bolt 3/8 x 1	
6	0641610	3	Bolt 3/8 x 1-1/4	
7	0641630	12	Bolt 3/8 x 3-3/4	
8	0791605	8	Screw 3/8 x 5/8	
9	0903154	1	Bracket, Engine Side Striker	
10	1671109	1	Cover, Turntable	
11	1671118	2	Cover, Pin Access	
12	1671194	1	Hood, Tank Side (See Items 201-221 for Breakdown)	
13	2080051	16	Clamp	
14	2600280	4	Hinge	
15	2940173	2	Latch, Rotary	
16	3311405	2	Nut 1/4	
17	3311601	10	Nut 3/8	
18	3311605	15	Nut 3/8	
19	3520186	6	Plug	
20	3574533	1	Trough, Powertrack	
21	3900232	6	Screw 3/8 x 1-1/4	
22	3900283	29	Screw 3/8 x 3/4	
23	3900316	10	Screw 3/8 x 1	
24	4071048	3	Shim	
25	4160194	4	Spring, Gas	
26	4340995	1	Support, Tank Side Hood	
27	4340996	1	Support, Engine Side Hood	
28	4341000	1	Mount, Tank Side Gas Spring	
29	4341001	1	Weldment, Gas Spring Mount	
30	4711400	12	Washer 1/4	
31	4711600	64	Washer 1/4	
32	4740500	6	Washer, Nylon	
33	4751600	53	Washer 3/8	
34	4846871	1	Weldment, Rear Hood Support	
35	4846872	1	Weldment, Front Hood Support	
36	4891600	4	Washer 3/8	
37	88662523	2	Nut, Tinnerman	
38	1001140485	1	Seal, Foam Gasket	
39	1001142144	1	Bracket, Hood Baffle	
40	1001146132	1	Seal, Foam Gasket	
41	1001146142	1	Seal, Foam Gasket	
42	1001146178	1	Seal, Hood Frame	
43	1001146183	1	Plate, Hood Frame Baffle	
44	1001160505	2	Strap	
45	1001237125	1	Hood, Engine Side (See Items 101-121 for Breakdown)	
46	1001243414	1	U - Bolt	
47	1001250301	1	Bracket, Tank Side Striker	
48	1001256298	1	Weldment, Exhaust Stack	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237125	Ref	ENGINE SIDE HOOD ASSEMBLY	A
101	0100011	AR	Compound, Locking	
102	0100081	AR	Adhesive	
103	0641510	10	Bolt 5/16 x 1-1/4	
104	0760608	1	Bolt M6 x 16	
105	0902746	7	Bracket	
106	0902761	1	Bracket	
107	0903161	1	Bracket	
108	2560187	1	Handle	
109	2680496	1	Hood, Engine Side Rear	
110	3290601	1	Nut M6 x 1	
111	3311501	10	Nut 5/16	
112	3340877	9	Pad	
113	3575782	1	Plate	
114	3900363	2	Screw M6 x 25	
115	3960464	12.1 ft /3.7m	Seal	
116	4060804	5.1 ft /1.6m	Shield, Flex Trim	
117	4060806	4.1 ft /1.2m	Shield, Flex Trim	
118	4751500	20	Washer 5/16	
119	4811900	2	Washer M8	
120	1001117140	AR	Tape, Aluminized Polyester	
121	1001152566	AR	Insulate	
	1671194	Ref	TANK SIDE HOOD ASSEMBLY	A
201	0100011	AR	Compound, Locking	
202	0100081	AR	Adhesive	
203	0641506	9	Bolt 5/16 x 3/4	
204	0760608	1	Bolt M6 x 16	
205	0902746	4	Bracket	
206	0902762	1	Bracket	
207	0902763	1	Bracket	
208	0903162	1	Bracket	
209	1671193	1	Hood, Tank Side Front	
210	2560187	1	Handle	
211	2680498	1	Hood, Tank Side Rear	
212	3290601	1	Nut M6 x 1	
213	3311501	9	Nut 5/16	
214	3340877	7	Pad	
215	3900363	2	Screw M6 x 25	
216	3960464	12.4 ft /3.8m	Seal	
217	4060804	4.4 ft /1.3m	Shield, Flex Trim	
218	4060806	3.3 ft /1m	Shield, Flex Trim	
219	4240150	1	Strap	
220	4751500	18	Washer 5/16	
221	4811900	2	Washer M8	

FIGURE 2-58. HOODS INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES



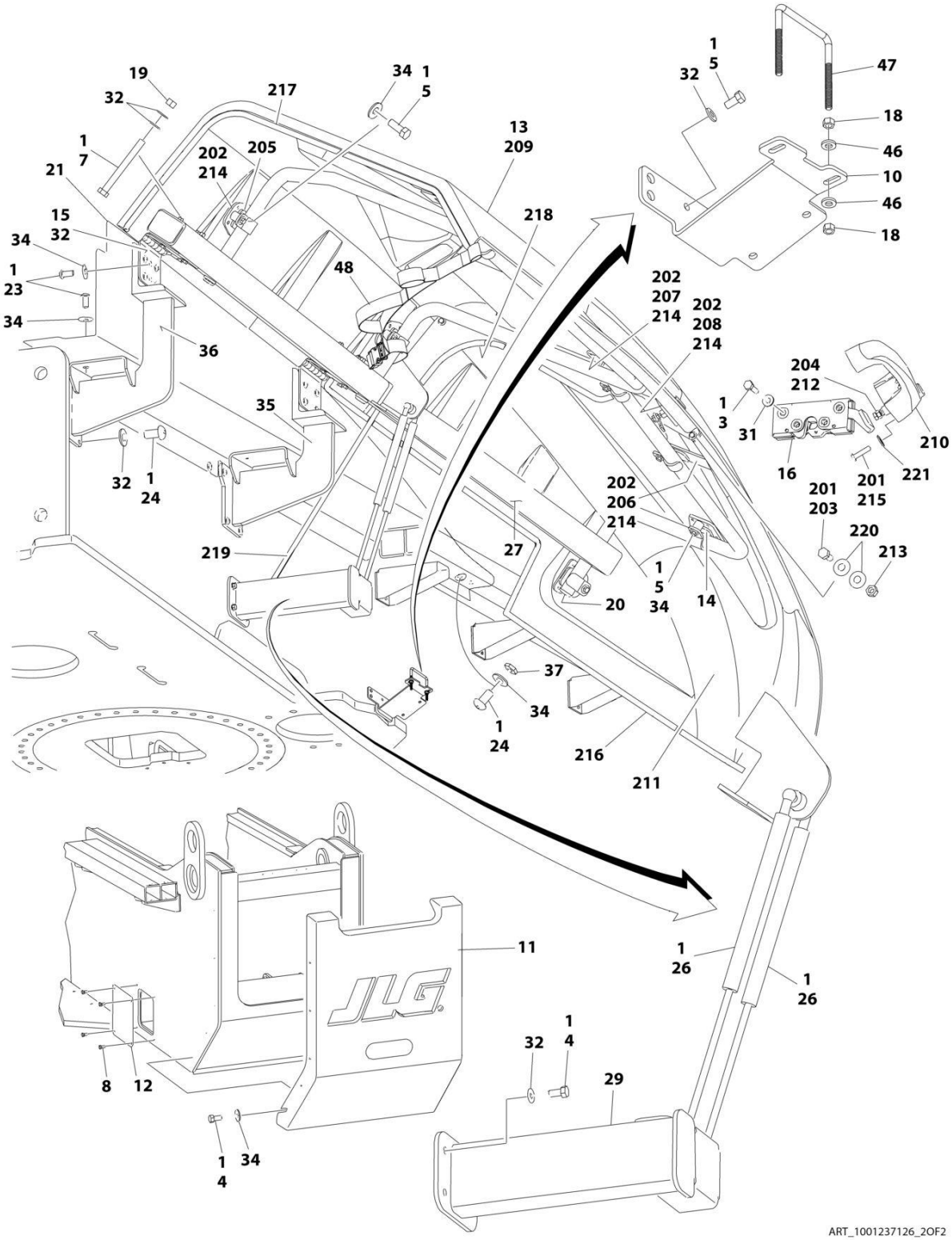

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FIGURE 2-58. HOODS INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237126	Ref	HOODS INSTALLATION - DEUTZ TCD2.9L4 (STAGE V) ENGINES	B
1	0100011	AR	Compound, Locking	
2	0641406	2	Bolt 1/4 x 3/4	
3	0641408	8	Bolt 1/4 x 1	
4	0641606	17	Bolt 3/8 x 3/4	
5	0641608	19	Bolt 3/8 x 1	
6	0641610	3	Bolt 3/8 x 1-1/4	
7	0641630	12	Bolt 3/8 x 3-3/4	
8	0791605	8	Screw 3/8 x 5/8	
9	0903154	1	Bracket, Engine Side Striker	
10	1001250301	1	Bracket, Tank Side Striker	
11	1671109	1	Cover, Turntable	
12	1671118	2	Cover, Pin Access	
13	1671194	1	Hood, Tank Side (See Items 201-221 for Breakdown)	
14	2080051	16	Clamp	
15	2600280	4	Hinge	
16	2940173	2	Latch, Rotary	
17	3311405	2	Nut 1/4	
18	3311601	10	Nut 3/8	
19	3311605	15	Nut 3/8	
20	3520186	6	Plug	
21	3574533	1	Trough, Powertrack	
22	3900232	6	Screw 3/8 x 1-1/4	
23	3900283	29	Screw 3/8 x 3/4	
24	3900316	10	Screw 3/8 x 1	
25	4071048	3	Shim	
26	4160194	4	Spring, Gas	
27	4340995	1	Support, Tank Side Hood	
28	4340996	1	Support, Engine Side Hood	
29	4341000	1	Mount, Tank Side Gas Spring	
30	4341001	1	Weldment, Gas Spring Mount	
31	4711400	12	Washer 1/4	
32	4711600	64	Washer 1/4	
33	4740500	6	Washer, Nylon	
34	4751600	53	Washer 3/8	
35	4846871	1	Weldment, Rear Hood Support	
36	4846872	1	Weldment, Front Hood Support	
37	88662523	2	Nut, Tinnerman	
38	1001140485	1	Seal, Foam Gasket	
39	1001142144	1	Bracket, Hood Baffle	
40	1001146132	1	Seal, Foam Gasket	
41	1001146142	1	Seal, Foam Gasket	
42	1001146178	1	Seal, Hood Frame	
43	1001146183	1	Plate, Hood Frame Baffle	
44	1001236408	1	Weldment, Exhaust Stack	
45	1001237125	1	Hood, Engine Side (See Items 101-121 for Breakdown)	
46	4891600	4	Washer 3/8	
47	1001243414	1	U - Bolt	
48	1001160505	2	Strap	
	1001237125	Ref	ENGINE SIDE HOOD ASSEMBLY	A

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	0100011	AR	Compound, Locking	
102	0100081	AR	Adhesive	
103	0641510	10	Bolt 5/16 x 1-1/4	
104	0760608	1	Bolt M6 x 16	
105	0902746	7	Bracket	
106	0902761	1	Bracket	
107	0903161	1	Bracket	
108	2560187	1	Handle	
109	2680496	1	Hood, Engine Side Rear	
110	3290601	1	Nut M6 x 1	
111	3311501	10	Nut 5/16	
112	3340877	9	Pad	
113	3575782	1	Plate	
114	3900363	2	Screw M6 x 25	
115	3960464	12.1 ft /3.7m	Seal	
116	4060804	5.1 ft /1.6m	Shield, Flex Trim	
117	4060806	4.1 ft /1.2m	Shield, Flex Trim	
118	4751500	20	Washer 5/16	
119	4811900	2	Washer M8	
120	1001117140	AR	Tape, Aluminized Polyester	
121	1001152566	AR	Insulate	
	1671194	Ref	TANK SIDE HOOD ASSEMBLY	A
201	0100011	AR	Compound, Locking	
202	0100081	AR	Adhesive	
203	0641506	9	Bolt 5/16 x 3/4	
204	0760608	1	Bolt M6 x 16	
205	0902746	4	Bracket	
206	0902762	1	Bracket	
207	0902763	1	Bracket	
208	0903162	1	Bracket	
209	1671193	1	Hood, Tank Side Front	
210	2560187	1	Handle	
211	2680498	1	Hood, Tank Side Rear	
212	3290601	1	Nut M6 x 1	
213	3311501	9	Nut 5/16	
214	3340877	7	Pad	
215	3900363	2	Screw M6 x 25	
216	3960464	12.4 ft /3.8m	Seal	
217	4060804	4.4 ft /1.3m	Shield, Flex Trim	
218	4060806	3.3 ft /1m	Shield, Flex Trim	
219	4240150	1	Strap	
220	4751500	18	Washer 5/16	
221	4811900	2	Washer M8	

SECTION 3 - ENGINE

FIGURE 3-1. DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

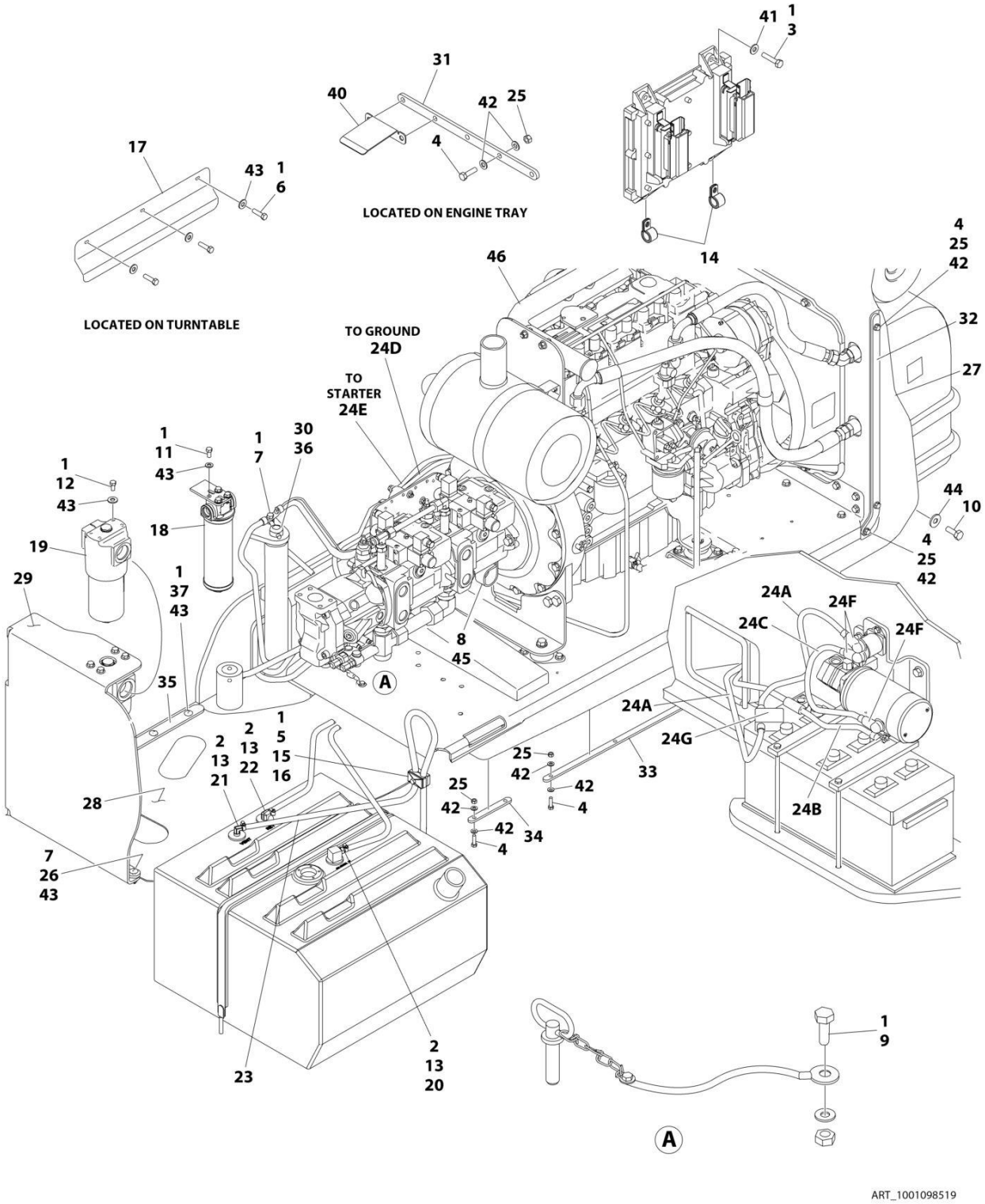


FIGURE 3-1. DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098519	Ref	DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)	G
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4 x 1-1/4	
4	0641509	15	Bolt 5/16 x 1-1/8	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641610	5	Bolt 3/8 x 1-1/4	
8	0641806	1	Bolt 1/2 x 3/4	
9	0641808	1	Bolt 1/2 x 1	
10	0642010	1	Bolt 5/8 x 1-1/4	
11	0641606	4	Bolt 3/8 x 3/4	
12	0651606	4	Bolt 3/8 x 3/4	
13	1320022	3	Clamp	
14	1320041	2	Clamp	
15	1320187	1	Clamp	
16	1320190	1	Clamp	
17	1671121	1	Cover, Generator	
18	1001108617	1	Filter, Pressure	
18	70002231	1	Element, Filter	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element	
19	70001344	1	O-Ring, Bowl	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180348	1	Fitting, Barbed	
21	2220313	1	Fitting, 90 Barbed	
22	2221176	1	Fitting, 90 Elbow	
23	2750532	5 ft/ 1.5m	Hose	
24	2902292	1	Battery Cable Kit	
24A	7027008	1	Cable, Red (To Aux Pump Relay, Battery Positive Terminal and Start Relay)	
24B	7027009	1	Cable, Black (To Aux Pump, Battery Negative Terminal and Ground at Tray Pivot)	
24C	7027010	1	Cable, Red (Aux Pump Relay to Aux Pump)	
24D	7027011	1	Cable, Black (Tray Pivot to Engine Mount)	
24E	7024584	1	Cable, Red (Start Relay to Starter)	
24F	See Note	NSS	Boot, Terminal (Red) (Note: Not Available for Purchase)	
24G	See Note	NSS	Boot, Square Terminal (Red) (Note: Not Available for Purchase)	
25	3311505	15	Nut 5/16	
26	3311605	4	Nut 3/8	
27	3380473	1	Panel, Rubber	
28	3380498	1	Panel	
29	3380723	1	Panel	
30	3422446	1	Pin	
31	3573644	1	Plate, Tray Clamp	
32	3573669	1	Plate, Clamp	
33	3573727	1	Plate, Tray Clamp	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	3573728	1	Plate, Tray Clamp	
35	3574633	1	Plate	
36	3841143	1	Keeper	
37	3900316	10	Screw 3/8 x 1	
38	4240018	2	Strap, Cable Tie (Not Shown)	
39	4240033	AR	Tie, Wire (Not Shown)	
40	4341110	1	Support	
41	4711400	4	Washer 1/4	
42	4711500	30	Washer 5/16	
43	4711600	29	Washer 3/8	
44	4752000	1	Washer 5/8	
45	90028660	1	Clamp	
46	1001098513	1	Engine and Pump Assembly (See Separate Breakdown in this Section)	

FIGURE 3-2. DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

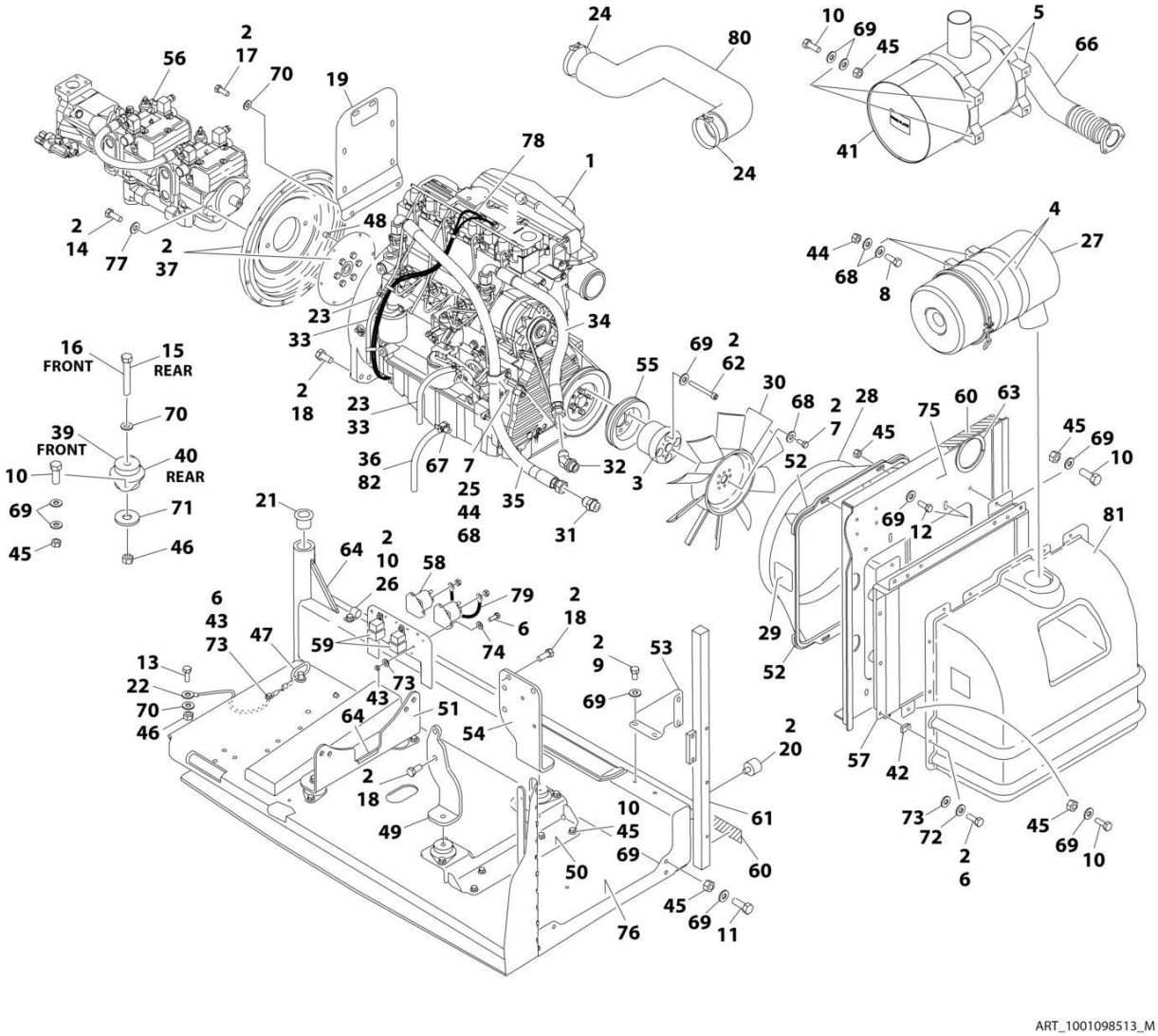


FIGURE 3-2. DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098513	Ref	DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMPS	M
1	1001098601	1	Engine, Deutz TD2011 Components (See Separate Breakdown in this Section)	
2	0100011	AR	Compound, Locking	
3	0080237	1	Spacer, Fan	
4	0340003	2	Band, Air Cleaner	
5	0340051	2	Band, Muffler	
6	0641406	15	Bolt 1/4 x 3/4	
7	0641506	5	Bolt 5/16 x 3/4	
8	0641507	4	Bolt 5/16 x 7/8	
9	0641605	4	Bolt 3/8 x 5/8	
10	0641608	25	Bolt 3/8 x 1	
11	0641609	2	Bolt 3/8 x 1-1/8	
12	0641610	4	Bolt 3/8 x 1-1/4	
13	0641808	1	Bolt 1/2 x 1	
14	0641812	2	Bolt 1/2 x 1-1/2	
15	0641818	2	Bolt 1/2 x 2-1/4	
16	0641826	2	Bolt 1/2 x 3-1/4	
17	0711214	2	Bolt M12 x 30	
18	0771414	10	Bolt M14 x 30	
19	1001112766	1	Bracket, Muffler	
20	0940070	1	Bumper	
21	0961986	2	Bushing, Flanged	
22	1001131542	1	Lanyard	
23	1320022	3	Clamp	
24	1320058	2	Clamp	
25	1320060	1	Clamp	
26	1320223	1	J-Clip	
27	1340065	1	Air Cleaner Assembly	
27	7003655	1	Element, Air Cleaner	
27	7015013	1	Baffle, Rubber	
27	7015014	1	Clamp, Cap	
27	7015015	1	Cup	
27	7015003	1	Wingnut	
28	1671023	1	Shroud, Fan	
29	1703162	2	Decal - Fan Blade	
30	2060025	1	Fan	
31	2220451	1	Fitting, Straight	
32	2220498	1	Fitting, Elbow	
33	2720058	34 ft/ 10.3m	Hose	
34	2720500	1	Hose, Oil Cooler (Top)	
35	2720501	1	Hose, Oil Cooler (Bottom)	
36	2750532	0.75 ft /0.2m	Hose	
37	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
39	3200362	2	Mount, Motor (Front)	
40	3200401	2	Mount, Motor (Rear)	
41	1001257277	1	Muffler, Spark Arresting	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	3300454	10	Nut 1/4	
43	3311405	5	Nut 1/4	
44	3311505	5	Nut 5/16	
45	3311605	30	Nut 3/8	
46	3311805	5	Nut 1/2	
47	3422532	1	Pin, Hitch	
48	3520054	2	Plug	
49	3537416	1	Plate, Mounting (Front Right)	
50	3539971	1	Bracket, Engine Mounting (Front)	
51	3573142	1	Bracket, Engine Mounting (Rear)	
52	3573411	2	Plate, Clamp	
53	3573412	1	Gusset	
54	3573529	1	Plate, Mounting (Front Left)	
55	3580158	1	Pulley	
56	3600339	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
57	1001145382	1	Cooler, Engine Oil	
58	3740067	2	Relay, Start	
59	3740080	2	Relay	
60	3960543	1	Seal	
61	3960544	1	Seal	
62	4032022	4	Capscrew M10 x 90	
63	4060804	0.98 ft /0.3m	Flex-Trim	
64	4060805	0.67 ft /0.2m	Flex-Trim	
65	4240099	AR	Tie, Wire (Not Shown)	
66	4568293	1	Pipe, Exhaust	
67	4640751	1	Valve, Oil Drain	
68	4711500	13	Washer 5/16	
69	4711600	68	Washer 3/8	
70	4711800	7	Washer 1/2	
71	4740274	4	Washer, Snubbing	
72	4740518	10	Washer, Nylon	
73	4751400	20	Washer 1/4	
74	4791400	4	Washer 1/4	
75	4846552	1	Plate, Oil Cooler Mounting	
76	4846946	1	Tray	
77	4891800	2	Washer 1/2 Hardened	
78	4923468	1	Harness, Glow Plugs	
79	4923592	1	Cable, Jumper	
80	1001225118	1	Hose, Air Intake	
81	0272060	1	Box, Air Intake	
82	8410013	1	Clamp, Gear	

FIGURE 3-3. DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

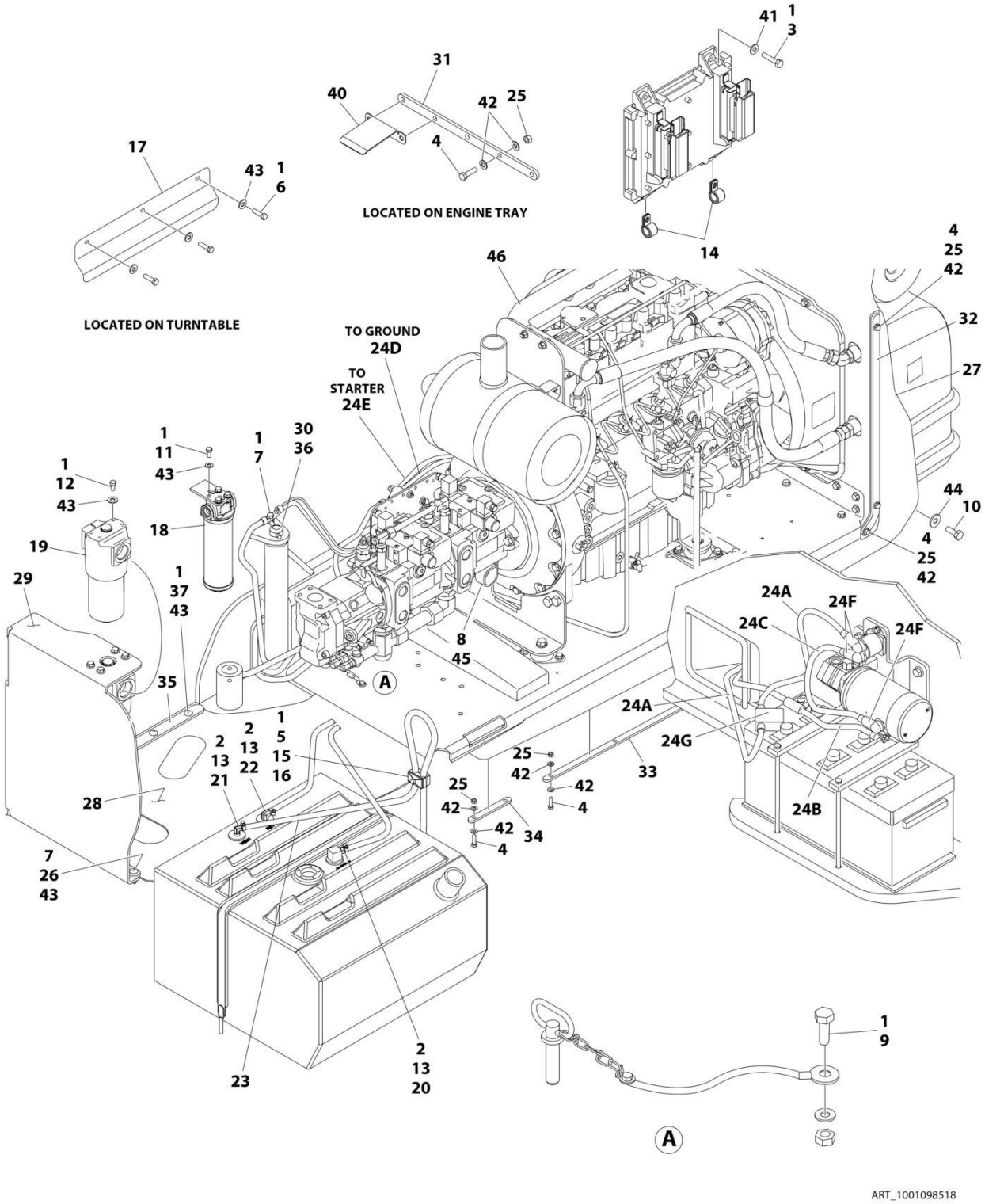


FIGURE 3-3. DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098518	Ref	DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)	G
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4 x 1-1/4	
4	0641509	15	Bolt 5/16 x 1-1/8	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641610	5	Bolt 3/8 x 1-1/4	
8	0641806	1	Bolt 1/2 x 3/4	
9	0641808	1	Bolt 1/2 x 1	
10	0642010	1	Bolt 5/8 x 1-1/4	
11	0641606	4	Bolt 3/8 x 3/4	
12	0651606	4	Bolt 3/8 x 3/4	
13	1320022	3	Clamp	
14	1320041	2	Clamp	
15	1320187	1	Clamp, Twin	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover, Generator	
18	1001108617	1	Filter, Pressure	
18	70002231	1	Element, Filter	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element	
19	70001344	1	O-Ring, Bowl	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180348	1	Fitting, Barbed	
21	2220313	1	Fitting, 90 Barbed	
22	2221176	1	Fitting, 90 Elbow	
23	2750532	5 ft/ 1.5m	Hose	
24	2902292	1	Battery Cable Kit	
24A	7027008	1	Cable, Red (To Aux Pump Relay, Battery Positive Terminal and Start Relay)	
24B	7027009	1	Cable, Black (To Aux Pump, Battery Negative Terminal and Ground at Tray Pivot)	
24C	7027010	1	Cable, Red (Aux Pump Relay to Aux Pump)	
24D	7027011	1	Cable, Black (Tray Pivot to Engine Mount)	
24E	7024584	1	Cable, Red (Start Relay to Starter)	
24F	See Note	NSS	Boot, Terminal (Red) (Note: Not Available for Purchase)	
24G	See Note	NSS	Boot, Square Terminal (Red) (Note: Not Available for Purchase)	
25	3311505	15	Nut 5/16	
26	3311605	4	Nut 3/8	
27	3380473	1	Panel, Rubber	
28	3380498	1	Panel	
29	3380723	1	Panel	
30	3422446	1	Pin	
31	3573644	1	Plate, Tray Clamp	
32	3573669	1	Plate, Clamp	
33	3573727	1	Plate, Tray Clamp	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	3573728	1	Plate, Tray Clamp	
35	3574633	1	Plate	
36	3841143	1	Keeper	
37	3900316	10	Screw 3/8 x 1	
38	4240018	2	Strap, Cable Tie (Not Shown)	
39	4240033	AR	Tie, Wire (Not Shown)	
40	4341110	1	Support	
41	4711400	4	Washer 1/4	
42	4711500	30	Washer 5/16	
43	4711600	29	Washer 3/8	
44	4752000	1	Washer 5/8	
45	90028660	1	Clamp	
46	1001098530	1	Engine and Pump Assembly (See Separate Breakdown in this Section)	

FIGURE 3-4. DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

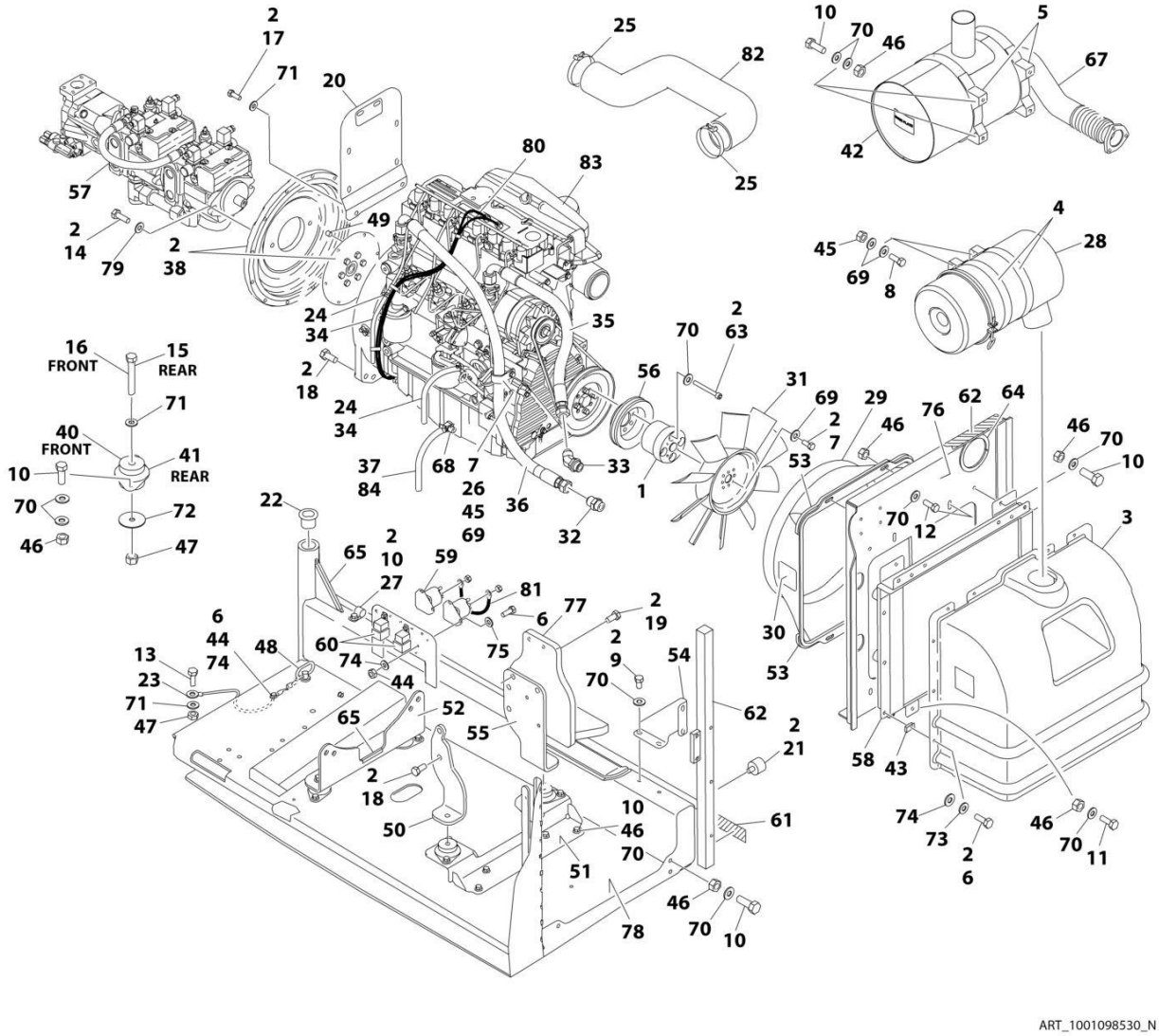


FIGURE 3-4. DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098530	Ref	DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMPS (WITH SKYPOWER AND WITHOUT COLD WEATHER PLUS PACKAGE)	N
1	0080244	1	Spacer, Fan	
2	0100011	AR	Compound, Locking	
3	0272060	1	Box, Air Intake	
4	0340003	2	Band, Air Cleaner	
5	0340051	2	Band, Muffler	
6	0641406	15	Bolt 1/4 x 3/4	
7	0641506	5	Bolt 5/16 x 3/4	
8	0641507	4	Bolt 5/16 x 7/8	
9	0641605	4	Bolt 3/8 x 5/8	
10	0641608	25	Bolt 3/8 x 1	
11	0641609	2	Bolt 3/8 x 1-1/8	
12	0641610	4	Bolt 3/8 x 1-1/4	
13	0641808	1	Bolt 1/2 x 1	
14	0641812	2	Bolt 1/2 x 1-1/2	
15	0641818	2	Bolt 1/2 x 2-1/4	
16	0641826	2	Bolt 1/2 x 3-1/4	
17	0711214	2	Bolt M12 x 30	
18	0771414	6	Bolt M14 x 30	
19	0711417	4	Bolt M14 x 45	
20	1001112766	1	Bracket, Muffler	
21	0940070	1	Bumper	
22	0961986	2	Bushing, Flanged	
23	1001131542	1	Lanyard	
24	1320022	2	Clamp	
25	1320058	2	Clamp	
26	1320060	1	Clamp	
27	1320223	1	J-Clip	
28	1340065	1	Air Cleaner Assembly	
28	7003655	1	Element, Air Cleaner	
28	7015013	1	Baffle, Rubber	
28	7015014	1	Clamp, Cap	
28	7015015	1	Cup	
28	7015003	1	Wingnut	
29	1671023	1	Shroud, Fan	
30	1703162	2	Decal - Fan Blade	
31	2060025	1	Fan	
32	2220451	1	Fitting, Straight	
33	2220498	1	Fitting, Elbow	
34	2720058	34 ft/ 10.3m	Hose	
35	2720500	1	Hose, Oil Cooler (Top)	
36	2720501	1	Hose, Oil Cooler (Bottom)	
37	2750532	0.75 ft /0.2m	Hose	
38	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
40	3200362	2	Mount, Motor (Front)	
41	3200401	2	Mount, Motor (Rear)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	1001257277	1	Muffler	
43	3300454	10	Nut	
44	3311405	5	Nut 1/4	
45	3311505	5	Nut 5/16	
46	3311605	30	Nut 3/8	
47	3311805	5	Nut 1/2	
48	3422532	1	Pin, Hitch	
49	3520054	2	Plug	
50	3537416	1	Plate, Mounting (Front Right)	
51	3539971	1	Bracket, Engine Mounting (Front)	
52	3573142	1	Bracket, Engine Mounting (Rear)	
53	3573411	2	Plate, Clamp	
54	3573412	1	Gusset	
55	3573529	1	Plate, Mounting (Front Left)	
56	3580320	1	Pulley	
57	3600339	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
58	1001145382	1	Cooler, Engine Oil	
59	3740067	2	Relay, Start	
60	3740080	2	Relay	
61	3960543	1	Seal	
62	3960544	1	Seal	
63	4032022	4	Capscrew M10 x 90	
64	4060804	0.98 ft /0.3m	Flex-Trim	
65	4060805	0.67 ft /0.2m	Flex-Trim	
66	4240099	AR	Tie, Wire (Not Shown)	
67	4568293	1	Pipe, Exhaust	
68	4640751	1	Valve, Oil Drain	
69	4711500	13	Washer 5/16	
70	4711600	68	Washer 3/8	
71	4711800	7	Washer 1/2	
72	4740274	4	Washer, Snubbing	
73	4740518	10	Washer, Nylon	
74	4751400	20	Washer 1/4	
75	4791400	4	Washer 1/4	
76	4846552	1	Plate, Oil Cooler Mounting	
77	4846945	1	Mount, Generator	
78	4846946	1	Tray	
79	4891800	2	Washer 1/2	
80	4923468	1	Harness, Glow Plugs	
81	4923592	1	Cable, Jumper	
82	1001225118	1	Hose, Air Intake	
83	1001098601	1	Engine, Deutz TD2011 Components (See Separate Breakdown in this Section)	
84	8410013	1	Clamp, Gear	

FIGURE 3-5. DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

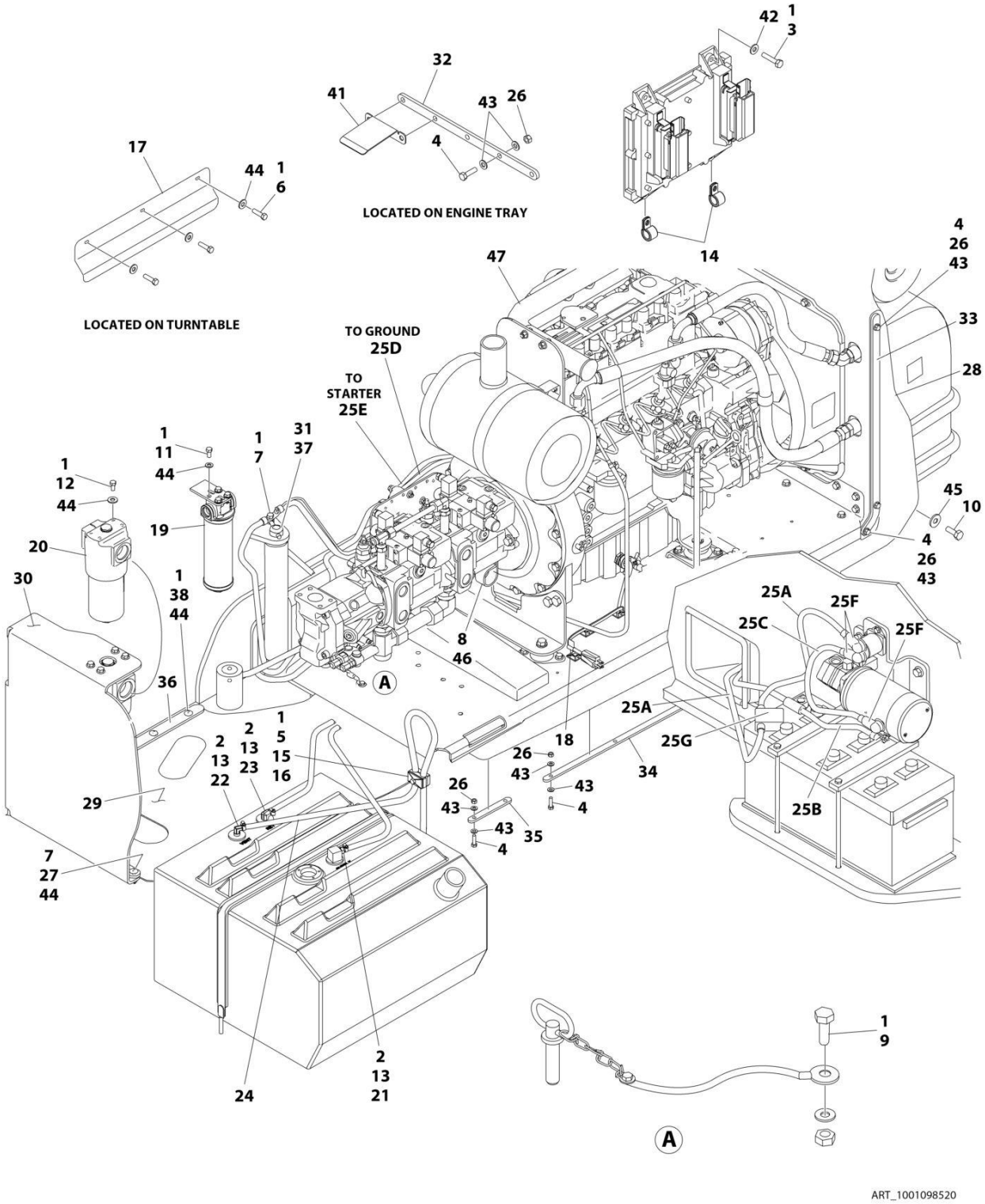


FIGURE 3-5. DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098520	Ref	DEUTZ TD2011 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)	G
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4 x 1-1/4	
4	0641509	15	Bolt 5/16 x 1-1/8	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641610	5	Bolt 3/8 x 1-1/4	
8	0641806	1	Bolt 1/2 x 3/4	
9	0641808	1	Bolt 1/2 x 1	
10	0642010	1	Bolt 5/8 x 1-1/4	
11	0641606	4	Bolt 3/8 x 3/4	
12	0651606	4	Bolt 3/8 x 3/4	
13	1320022	3	Clamp	
14	1320041	2	Clamp	
15	1320187	1	Clamp, Twin	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover, Generator	
18	1702942	1	Decal - Engine Block Heater	
19	1001108617	1	Filter, Pressure	
19	70002231	1	Element, Filter	
20	2120218	1	Filter, High Pressure	
20	2120219	1	Element	
20	70001344	1	O-Ring, Bowl	
20	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
21	2180348	1	Fitting, Barbed	
22	2220313	1	Fitting, 90 Barbed	
23	2221176	1	Fitting, 90 Elbow	
24	2750532	5 ft/ 1.5m	Hose	
25	2902292	1	Battery Cable Kit	
25A	7027008	1	Cable, Red (To Aux Pump Relay, Battery Positive Terminal and Start Relay)	
25B	7027009	1	Cable, Black (To Aux Pump, Battery Negative Terminal and Ground at Tray Pivot)	
25C	7027010	1	Cable, Red (Aux Pump Relay to Aux Pump)	
25D	7027011	1	Cable, Black (Tray Pivot to Engine Mount)	
25E	7024584	1	Cable, Red (Start Relay to Starter)	
25F	See Note	NSS	Boot, Terminal (Red) (Note: Not Available for Purchase)	
25G	See Note	NSS	Boot, Square Terminal (Red) (Note: Not Available for Purchase)	
26	3311505	15	Nut 5/16	
27	3311605	4	Nut 3/8	
28	3380473	1	Panel, Rubber	
29	3380498	1	Panel	
30	3380723	1	Panel	
31	3422446	1	Pin	
32	3573644	1	Plate, Tray Clamp	
33	3573669	1	Plate, Clamp	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	3573727	1	Plate, Tray Clamp	
35	3573728	1	Plate, Tray Clamp	
36	3574633	1	Plate	
37	3841143	1	Keeper	
38	3900316	10	Screw 3/8 x 1	
39	4240018	2	Strap, Cable Tie (Not Shown)	
40	4240033	AR	Tie, Wire (Not Shown)	
41	4341110	1	Support	
42	4711400	4	Washer 1/4	
43	4711500	30	Washer 5/16	
44	4711600	29	Washer 3/8	
45	4752000	1	Washer 5/8	
46	90028660	1	Clamp	
47	1001098531	1	Engine and Pump Assembly (See Separate Breakdown in this Section)	

FIGURE 3-6. DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

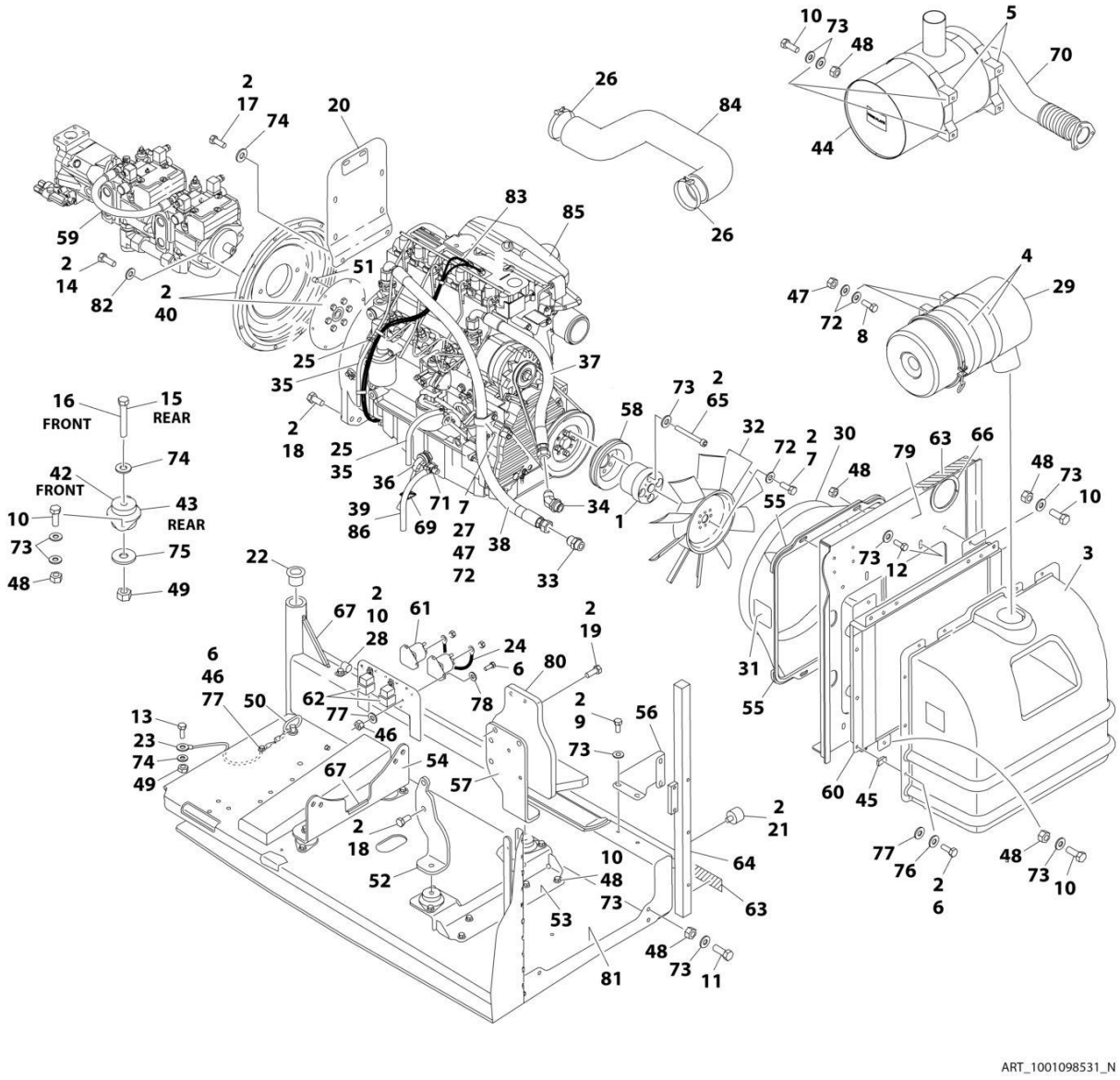


FIGURE 3-6. DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098531	Ref	DEUTZ TD2011 ENGINE ASSEMBLY - WITH REXROTH PUMPS (WITH SKYPOWER AND WITH COLD WEATHER PLUS PACKAGE)	N
1	0080244	1	Spacer, Fan	
2	0100011	AR	Compound, Locking	
3	0272060	1	Box, Air Intake	
4	0340003	2	Band, Air Cleaner	
5	0340051	2	Band, Muffler	
6	0641406	15	Bolt 1/4 x 3/4	
7	0641506	5	Bolt 5/16 x 3/4	
8	0641507	4	Bolt 5/16 x 7/8	
9	0641605	4	Bolt 3/8 x 5/8	
10	0641608	25	Bolt 3/8 x 1	
11	0641609	2	Bolt 3/8 x 1-1/8	
12	0641610	4	Bolt 3/8 x 1-1/4	
13	0641808	1	Bolt 1/2 x 1	
14	0641812	2	Bolt 1/2 x 1-1/2	
15	0641818	2	Bolt 1/2 x 2-1/4	
16	0641826	2	Bolt 1/2 x 3-1/4	
17	0711214	2	Bolt M12 x 30	
18	0771414	6	Bolt M14 x 30	
19	0711417	4	Bolt M14 x 45	
20	1001112766	1	Bracket, Muffler	
21	0940070	1	Bumper	
22	0961986	2	Bushing, Flanged	
23	1001131542	1	Lanyard	
24	1060904	1	Cable, Jumper	
25	1320022	2	Clamp	
26	1320058	2	Clamp	
27	1320060	1	Clamp	
28	1320223	1	J-Clip	
29	1340065	1	Air Cleaner Assembly	
29	7003655	1	Element, Air Cleaner	
29	7015013	1	Baffle, Rubber	
29	7015014	1	Clamp, Cap	
29	7015015	1	Cup	
29	7015003	1	Wingnut	
30	1671023	1	Shroud, Fan	
31	1703162	2	Decal - Fan Blade	
32	2060025	1	Fan	
33	2220451	1	Fitting, Straight	
34	2220498	1	Fitting, Elbow	
35	2720058	34 ft/ 10.3m	Hose	
36	2580062	1	Heater, Engine Block	
37	2720500	1	Hose, Oil Cooler (Top)	
38	2720501	1	Hose, Oil Cooler (Bottom)	
39	2750532	0.75 ft /0.2m	Hose	
40	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	3200362	2	Mount, Motor (Front)	
43	3200401	2	Mount, Motor (Rear)	
44	1001257277	1	Muffler	
45	3300454	10	Nut 1/4	
46	3311405	5	Nut 1/4	
47	3311505	5	Nut 5/16	
48	3311605	30	Nut 3/8	
49	3311805	5	Nut 1/2	
50	3422532	1	Pin, Hitch	
51	3520054	2	Plug	
52	3537416	1	Plate, Mounting (Front Right)	
53	3539971	1	Bracket, Engine Mounting (Front)	
54	3573142	1	Bracket, Engine Mounting (Rear)	
55	3573411	2	Plate, Clamp	
56	3573412	1	Gusset	
57	3573529	1	Plate, Mounting (Front Left)	
58	3580320	1	Pulley	
59	3600339	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
60	1001145382	1	Cooler, Engine Oil	
61	3740067	2	Relay, Start	
62	3740080	2	Relay	
63	3960543	1	Seal	
64	3960544	1	Seal	
65	4032022	4	Capscrew M10 x 90	
66	4060804	0.98 ft /0.3m	Flex-Trim	
67	4060805	0.67 ft /0.2m	Flex-Trim	
68	4240099	AR	Tie, Wire (Not Shown)	
69	4460234	3	Mount, Wire Tie	
70	4568293	1	Pipe, Exhaust	
71	4640751	1	Valve, Oil Drain	
72	4711500	13	Washer 5/16	
73	4711600	68	Washer 3/8	
74	4711800	7	Washer 1/2	
75	4740274	4	Washer, Snubbing	
76	4740518	10	Washer, Nylon	
77	4751400	20	Washer 1/4	
78	4791400	4	Washer 1/4	
79	4846552	1	Plate, Oil Cooler Mounting	
80	4846945	1	Mount, Generator	
81	4846946	1	Tray	
82	4891800	2	Washer 1/2 Hardened	
83	4923468	1	Harness, Glow Plugs	
84	1001225118	1	Hose, Air Intake	
85	1001098601	1	Engine, Deutz TD2011 Components (See Separate Breakdown in this Section)	
86	8410013	1	Clamp, Gear	

FIGURE 3-7. DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

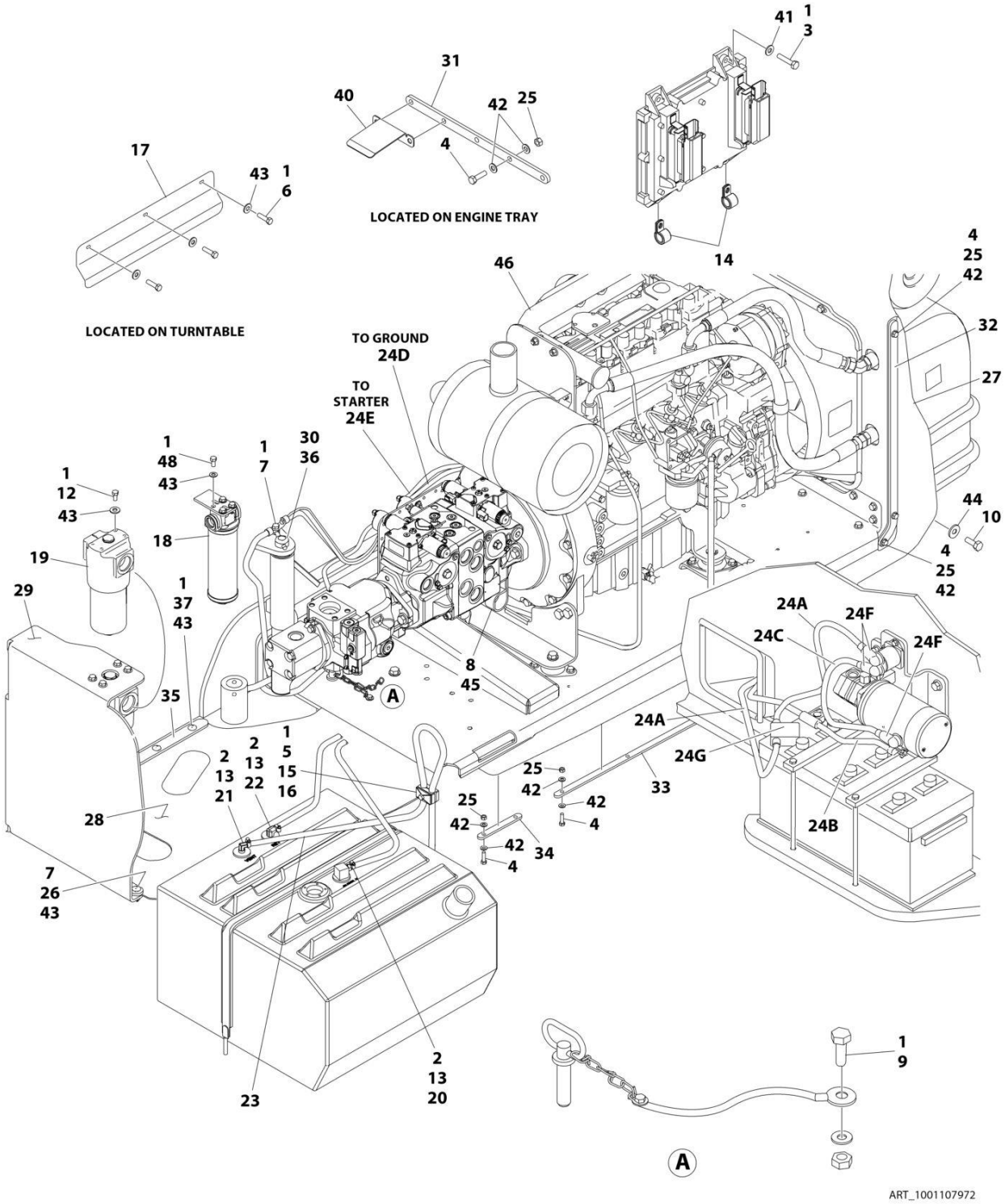


FIGURE 3-7. DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107972	Ref	DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)	E
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4 x 1-1/4	
4	0641509	15	Bolt 5/16 x 1-1/8	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641610	5	Bolt 3/8 x 1-1/4	
8	0641806	1	Bolt 1/2 x 3/4	
9	0641808	1	Bolt 1/2 x 1	
10	0642010	1	Bolt 5/8 x 1-1/4	
12	0651606	4	Bolt 3/8 x 3/4	
13	1320022	3	Clamp	
14	1320041	2	Clamp	
15	1320187	1	Clamp, Twin	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover, Generator	
18	1001108617	1	Filter, Pressure	
18	70002231	1	Element, Filter	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element	
19	70001344	1	O-Ring, Bowl	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180348	1	Fitting, Barbed	
21	2220313	1	Fitting, 90 Barbed	
22	2221176	1	Fitting, 90 Elbow	
23	2750532	5 ft/ 1.5m	Hose	
24	2902292	1	Battery Cable Kit	
24A	7027008	1	Cable, Red (To Aux Pump Relay, Battery Positive Terminal and Start Relay)	
24B	7027009	1	Cable, Black (To Aux Pump, Battery Negative Terminal and Ground at Tray Pivot)	
24C	7027010	1	Cable, Red (Aux Pump Relay to Aux Pump)	
24D	7027011	1	Cable, Black (Tray Pivot to Engine Mount)	
24E	7024584	1	Cable, Red (Start Relay to Starter)	
24F	See Note	NSS	Boot, Terminal (Red) (Note: Not Available for Purchase)	
24G	See Note	NSS	Boot, Square Terminal (Red) (Note: Not Available for Purchase)	
25	3311505	15	Nut 5/16	
26	3311605	4	Nut 3/8	
27	3380473	1	Panel, Rubber	
28	3380498	1	Panel	
29	3380723	1	Panel	
30	3422446	1	Pin	
31	3573644	1	Plate, Tray Clamp	
32	3573669	1	Plate, Clamp	
33	3573727	1	Plate, Tray Clamp	
34	3573728	1	Plate, Tray Clamp	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	3574633	1	Plate	
36	3841143	1	Keeper	
37	3900316	10	Screw 3/8 x 1	
38	4240018	2	Strap, Cable Tie (Not Shown)	
39	4240033	AR	Tie, Wire (Not Shown)	
40	4341110	1	Support	
41	4711400	4	Washer 1/4	
42	4711500	30	Washer 5/16	
43	4711600	29	Washer 3/8	
44	4752000	1	Washer 5/8	
45	90028660	1	Clamp	
46	1001107971	1	Engine and Pump Assembly (See Separate Breakdown in this Section)	
48	0641606	4	Bolt 3/8 x 3/4	

FIGURE 3-8. DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

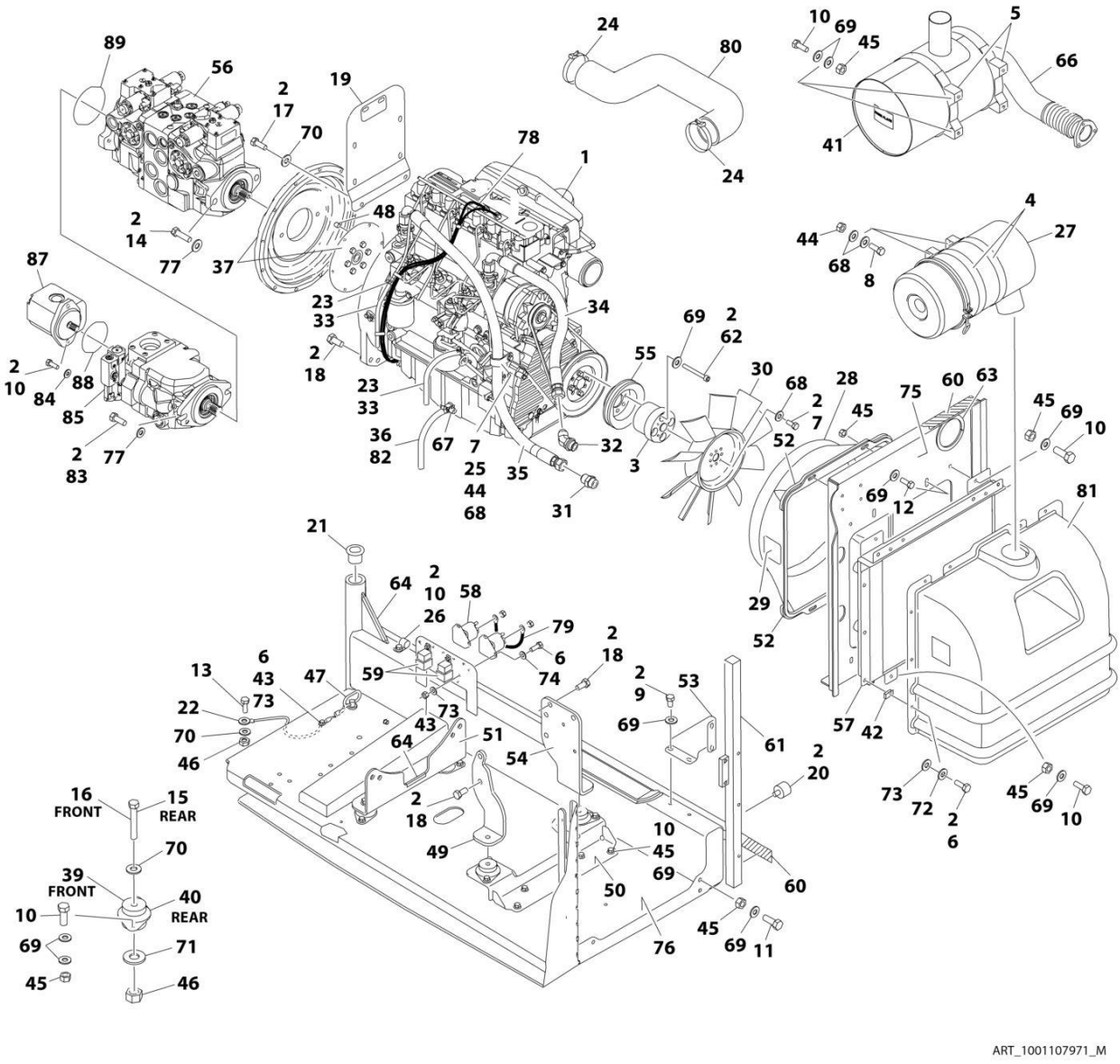


FIGURE 3-8. DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMP (WITHOUT GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107971	Ref	DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMPS (WITHOUT SKYPOWER AND WITHOUT COLD WEATHER PLUS PACKAGE)	M
1	1001098601	1	Engine, Deutz TD2011 Components (See Separate Breakdown in this Section)	
2	0100011	AR	Compound, Locking	
3	0080237	1	Spacer, Fan	
4	0340003	2	Band, Air Cleaner	
5	0340051	2	Band, Muffler	
6	0641406	15	Bolt 1/4 x 3/4	
7	0641506	5	Bolt 5/16 x 3/4	
8	0641507	4	Bolt 5/16 x 7/8	
9	0641605	4	Bolt 3/8 x 5/8	
10	0641608	27	Bolt 3/8 x 1	
11	0641609	2	Bolt 3/8 x 1-1/8	
12	0641610	4	Bolt 3/8 x 1-1/4	
13	0641808	1	Bolt 1/2 x 1	
14	0641814	2	Bolt 1/2 x 1-3/4	
15	0641818	2	Bolt 1/2 x 2-1/4	
16	0641826	2	Bolt 1/2 x 3-1/4	
17	0711214	2	Bolt M12 x 30	
18	0771414	10	Bolt M14 x 30	
19	1001112766	1	Bracket, Muffler	
20	0940070	1	Bumper	
21	0961986	2	Bushing, Flanged	
22	1001131542	1	Lanyard	
23	1320022	3	Clamp	
24	1320058	2	Clamp	
25	1320060	1	Clamp	
26	1320223	1	J-Clip	
27	1340065	1	Air Cleaner Assembly	
27	7003655	1	Element, Air Cleaner	
27	7015013	1	Baffle, Rubber	
27	7015014	1	Clamp, Cap	
27	7015015	1	Cup	
27	7015003	1	Wingnut	
28	1671023	1	Shroud, Fan	
29	1703162	2	Decal - Fan Blade	
30	2060025	1	Fan	
31	2220451	1	Fitting, Straight	
32	2220498	1	Fitting, Elbow	
33	2720058	34 ft /10.3m	Hose	
34	2720500	1	Hose, Oil Cooler (Top)	
35	2720501	1	Hose, Oil Cooler (Bottom)	
36	2750532	0.75 ft /0.2m	Hose	
37	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
39	3200362	2	Mount, Motor (Front)	
40	3200401	2	Mount, Motor (Rear)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	1001257277	1	Muffler	
42	3300454	10	Nut 1/4	
43	3311405	5	Nut 1/4	
44	3311505	5	Nut 5/16	
45	3311605	30	Nut 3/8	
46	3311805	5	Nut 1/2	
47	3422532	1	Pin, Hitch	
48	3520054	2	Plug	
49	3537416	1	Plate, Mounting (Front Right)	
50	3539971	1	Bracket, Engine Mounting (Front)	
51	3573142	1	Bracket, Engine Mounting (Rear)	
52	3573411	2	Plate, Clamp	
53	3573412	1	Gusset	
54	3573529	1	Plate, Mounting (Front Left)	
55	3580158	1	Pulley	
56	1001108616	1	Pump Assembly - Sauer (See Separate Breakdown in this Section)	
57	1001145382	1	Cooler, Engine Oil	
58	3740067	2	Relay, Start	
59	3740080	2	Relay	
60	3960543	1	Seal	
61	3960544	1	Seal	
62	4032022	4	Capscrew M10 x 90	
63	4060804	0.98 ft /0.3m	Flex-Trim	
64	4060805	0.67 ft /0.2m	Flex-Trim	
65	4240099	AR	Tie, Wire (Not Shown)	
66	4568293	1	Pipe, Exhaust	
67	4640751	1	Valve, Oil Drain	
68	4711500	13	Washer 5/16	
69	4711600	68	Washer 3/8	
70	4711800	7	Washer 1/2	
71	4740274	4	Washer, Snubbing	
72	4740518	10	Washer, Nylon	
73	4751400	20	Washer 1/4	
74	4791400	4	Washer 1/4	
75	4846552	1	Plate, Oil Cooler Mounting	
76	4846946	1	Tray	
77	4891800	4	Washer 1/2	
78	4923468	1	Harness, Glow Plugs	
79	4923592	1	Cable, Jumper	
80	1001225118	1	Hose, Air Intake	
81	0272060	1	Box, Air Intake	
82	8410013	1	Clamp, Gear	
83	0761215	2	Bolt M12 x 35mm	
84	4891600	2	Washer 3/8	
85	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
87	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
88	3790152	1	O-Ring	
89	3790155	1	O-Ring	

FIGURE 3-9. DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

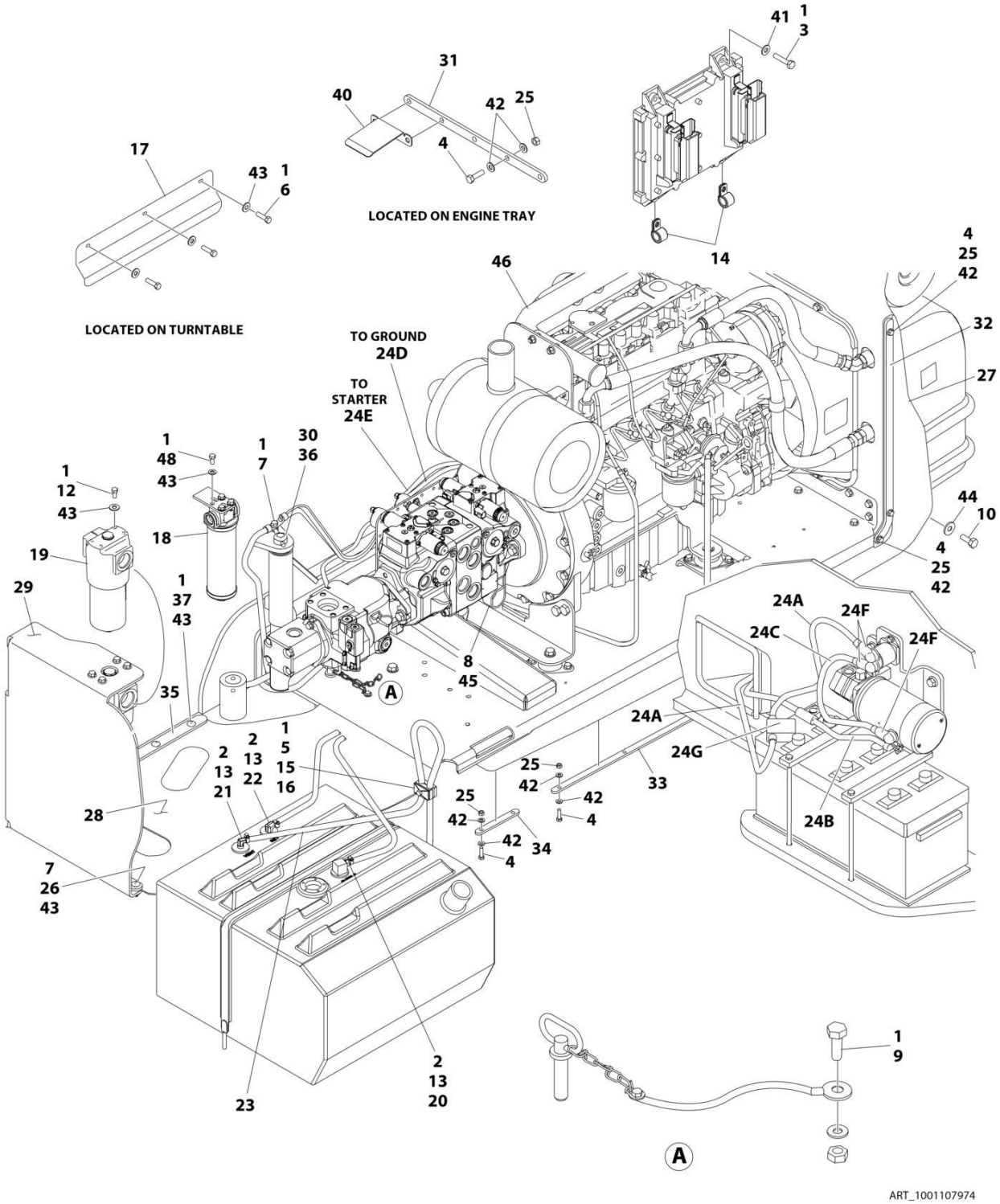


FIGURE 3-9. DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107974	Ref	DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)	E
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4 x 1-1/4	
4	0641509	15	Bolt 5/16 x 1-1/8	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641610	5	Bolt 3/8 x 1-1/4	
8	0641806	1	Bolt 1/2 x 3/4	
9	0641808	1	Bolt 1/2 x 1	
10	0642010	1	Bolt 5/8 x 1-1/4	
12	0651606	4	Bolt 3/8 x 3/4	
13	1320022	3	Clamp	
14	1320041	2	Clamp	
15	1320187	1	Clamp, Twin	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover, Generator	
18	1001108617	1	Filter, Pressure	
18	70002231	1	Element, Filter	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element	
19	70001344	1	O-Ring, Bowl	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180348	1	Fitting, Barbed	
21	2220313	1	Fitting, 90 Barbed	
22	2221176	1	Fitting, 90 Elbow	
23	2750532	5 ft/ 1.5m	Hose	
24	2902292	1	Battery Cable Kit	
24A	7027008	1	Cable, Red (To Aux Pump Relay, Battery Positive Terminal and Start Relay)	
24B	7027009	1	Cable, Black (To Aux Pump, Battery Negative Terminal and Ground at Tray Pivot)	
24C	7027010	1	Cable, Red (Aux Pump Relay to Aux Pump)	
24D	7027011	1	Cable, Black (Tray Pivot to Engine Mount)	
24E	7024584	1	Cable, Red (Start Relay to Starter)	
24F	See Note	NSS	Boot, Terminal (Red) (Note: Not Available for Purchase)	
24G	See Note	NSS	Boot, Square Terminal (Red) (Note: Not Available for Purchase)	
25	3311505	15	Nut 5/16	
26	3311605	4	Nut 3/8	
27	3380473	1	Panel, Rubber	
28	3380498	1	Panel	
29	3380723	1	Panel	
30	3422446	1	Pin	
31	3573644	1	Plate, Tray Clamp	
32	3573669	1	Plate, Clamp	
33	3573727	1	Plate, Tray Clamp	
34	3573728	1	Plate, Tray Clamp	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	3574633	1	Plate	
36	3841143	1	Keeper	
37	3900316	10	Screw 3/8 x 1	
38	4240018	2	Strap, Cable Tie (Not Shown)	
39	4240033	AR	Tie, Wire (Not Shown)	
40	4341110	1	Support	
41	4711400	4	Washer 1/4	
42	4711500	30	Washer 5/16	
43	4711600	29	Washer 3/8	
44	4752000	1	Washer 5/8	
45	90028660	1	Clamp	
46	1001107973	1	Engine and Pump Assembly (See Separate Breakdown in this Section)	
48	0641606	4	Bolt 3/8 x 3/4	

FIGURE 3-10. DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

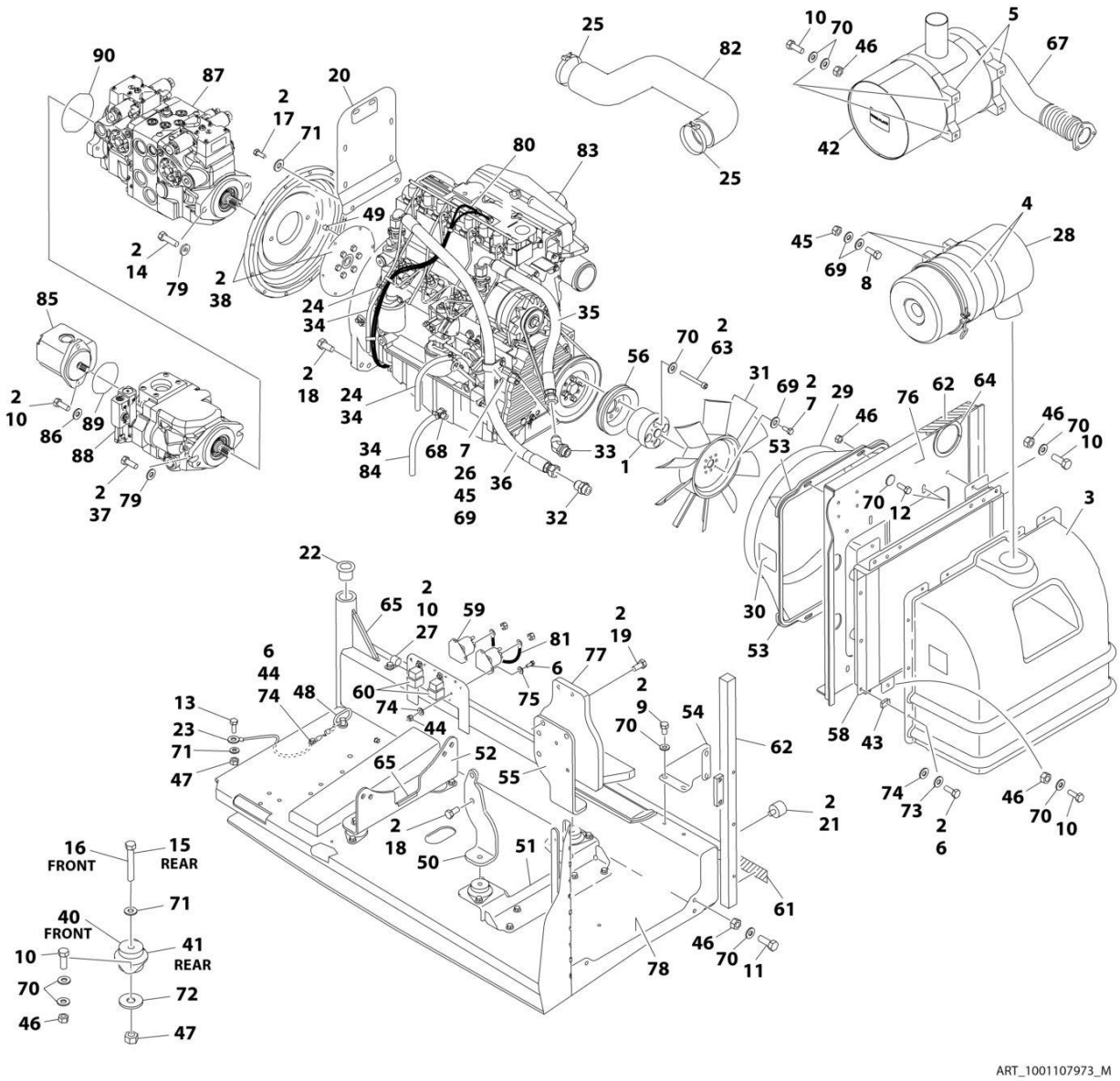


FIGURE 3-10. DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMP (WITH GENERATOR AND WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107973	Ref	DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMPS (WITH SKYPOWER AND WITHOUT COLD WEATHER PLUS PACKAGE)	N
1	0080244	1	Spacer, Fan	
2	0100011	AR	Compound, Locking	
3	0272060	1	Box, Air Intake	
4	0340003	2	Band, Air Cleaner	
5	0340051	2	Band, Muffler	
6	0641406	15	Bolt 1/4 x 3/4	
7	0641506	5	Bolt 5/16 x 3/4	
8	0641507	4	Bolt 5/16 x 7/8	
9	0641605	4	Bolt 3/8 x 5/8	
10	0641608	27	Bolt 3/8 x 1	
11	0641609	2	Bolt 3/8 x 1-1/8	
12	0641610	4	Bolt 3/8 x 1-1/4	
13	0641808	1	Bolt 1/2 x 1	
14	0641814	2	Bolt 1/2 x 1-3/4	
15	0641818	2	Bolt 1/2 x 2-1/4	
16	0641826	2	Bolt 1/2 x 3-1/4	
17	0711214	2	Bolt M12 x 30	
18	0771414	6	Bolt M14 x 30	
19	0711417	4	Bolt M14 x 45	
20	1001112766	1	Bracket, Muffler	
21	0940070	1	Bumper	
22	0961986	2	Bushing, Flanged	
23	1001131542	1	Lanyard	
24	1320022	2	Clamp	
25	1320058	2	Clamp	
26	1320060	1	Clamp	
27	1320223	1	J-Clip	
28	1340065	1	Air Cleaner Assembly	
28	7003655	1	Element, Air Cleaner	
28	7015013	1	Baffle, Rubber	
28	7015014	1	Clamp, Cap	
28	7015015	1	Cup	
28	7015003	1	Wingnut	
29	1671023	1	Shroud, Fan	
30	1703162	2	Decal - Fan Blade	
31	2060025	1	Fan	
32	2220451	1	Fitting, Straight	
33	2220498	1	Fitting, Elbow	
34	2720058	34 ft/ 10.3m	Hose	
35	2720500	1	Hose, Oil Cooler (Top)	
36	2720501	1	Hose, Oil Cooler (Bottom)	
37	0761215	2	Bolt M12 x 35mm	
38	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
40	3200362	2	Mount, Motor (Front)	
41	3200401	2	Mount, Motor (Rear)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	1001257277	1	Muffler	
43	3300454	10	Nut	
44	3311405	5	Nut 1/4	
45	3311505	5	Nut 5/16	
46	3311605	30	Nut 3/8	
47	3311805	5	Nut 1/2	
48	3422532	1	Pin, Hitch	
49	3520054	2	Plug	
50	3537416	1	Plate, Mounting (Front Right)	
51	3539971	1	Bracket, Engine Mounting (Front)	
52	3573142	1	Bracket, Engine Mounting (Rear)	
53	3573411	2	Plate, Clamp	
54	3573412	1	Gusset	
55	3573529	1	Plate, Mounting (Front Left)	
56	3580320	1	Pulley	
58	1001145382	1	Cooler, Engine Oil	
59	3740067	2	Relay, Start	
60	3740080	2	Relay	
61	3960543	1	Seal	
62	3960544	1	Seal	
63	4032022	4	Capscrew M10 x 90	
64	4060804	0.98 ft /0.3m	Flex-Trim	
65	4060805	0.67 ft /0.2m	Flex-Trim	
66	4240099	AR	Tie, Wire (Not Shown)	
67	4568293	1	Pipe, Exhaust	
68	4640751	1	Valve, Oil Drain	
69	4711500	13	Washer 5/16	
70	4711600	68	Washer 3/8	
71	4711800	7	Washer 1/2	
72	4740274	4	Washer, Snubbing	
73	4740518	10	Washer, Nylon	
74	4751400	20	Washer 1/4	
75	4791400	4	Washer 1/4	
76	4846552	1	Plate, Oil Cooler Mounting	
77	4846945	1	Mount, Generator	
78	4846946	1	Tray	
79	4891800	4	Washer 1/2	
80	4923468	1	Harness, Glow Plugs	
81	4923592	1	Cable, Jumper	
82	1001225118	1	Hose, Air Intake	
83	1001098601	1	Engine, Deutz TD2011 Components (See Separate Breakdown in this Section)	
84	8410013	1	Clamp, Gear	
85	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
86	4891600	2	Washer 3/8	
87	1001108616	1	Pump Assembly - Sauer (See Separate Breakdown in this Section)	
88	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
89	3790152	1	O-Ring	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
90	3790155	1	O-Ring	
91	2750532	0.8 ft/ 0.2m	Hose	

FIGURE 3-11. DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

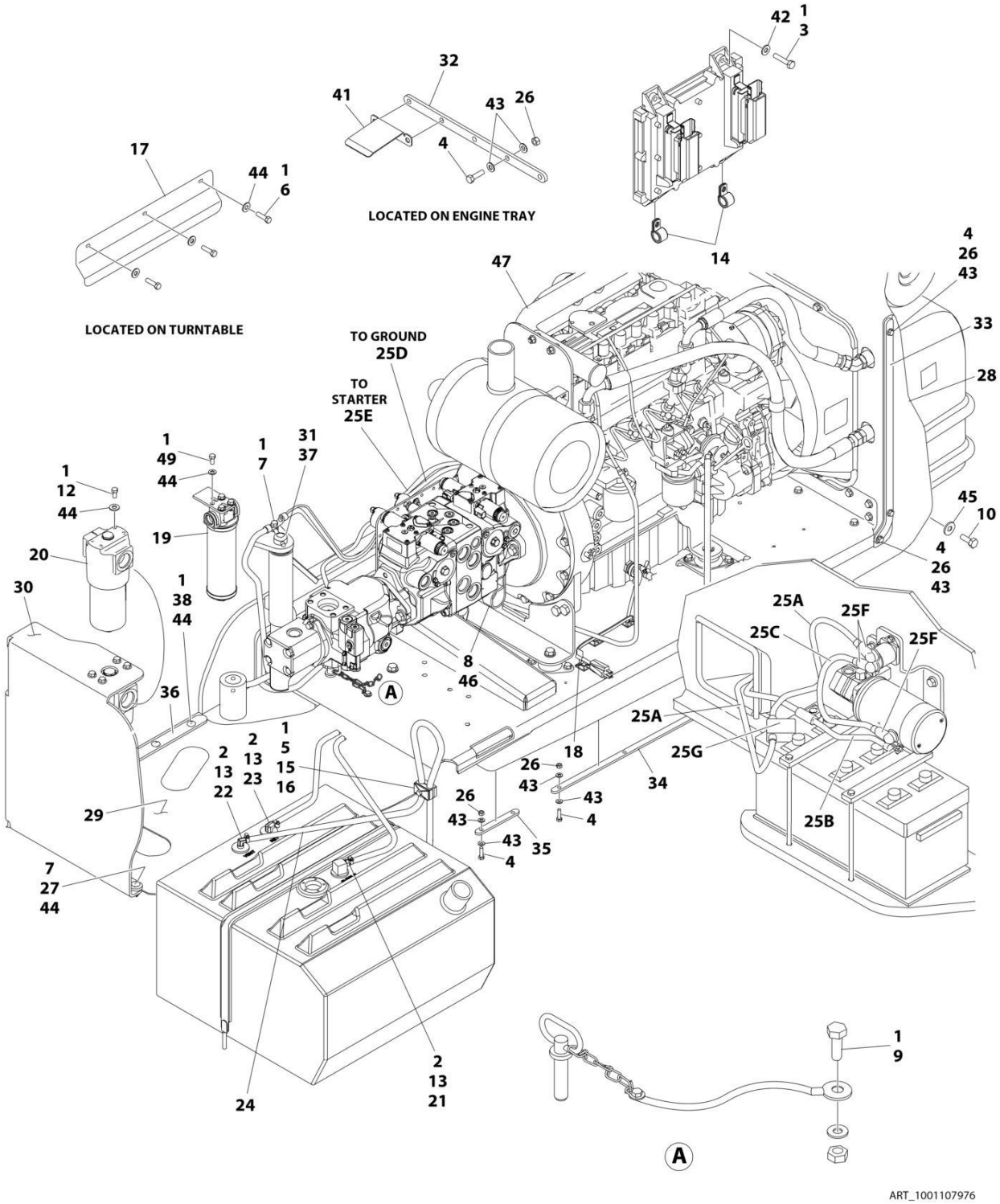


FIGURE 3-11. DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107976	Ref	DEUTZ TD2011 ENGINE INSTALLATION - WITH SAUER PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)	E
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4 x 1-1/4	
4	0641509	15	Bolt 5/16 x 1-1/8	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641610	5	Bolt 3/8 X 1-1/4	
8	0641806	1	Bolt 1/2 x 3/4	
9	0641808	1	Bolt 1/2 x 1	
10	0642010	1	Bolt 5/8 x 1-1/4	
12	0651606	4	Bolt 3/8 x 3/4	
13	1320022	3	Clamp	
14	1320041	2	Clamp	
15	1320187	1	Clamp, Twin	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover, Generator	
18	1702942	1	Decal - Engine Block Heater	
19	1001108617	1	Filter, Pressure	
19	70002231	1	Element, Filter	
20	2120218	1	Filter, High Pressure	
20	2120219	1	Element	
20	70001344	1	O-Ring, Bowl	
20	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
21	2180348	1	Fitting, Barbed	
22	2220313	1	Fitting, 90 Barbed	
23	2221176	1	Fitting, 90	
24	2750532	5 ft/ 1.5m	Hose	
25	2902292	1	Battery Cable Kit	
25A	7027008	1	Cable, Red (To Aux Pump Relay, Battery Positive Terminal and Start Relay)	
25B	7027009	1	Cable, Black (To Aux Pump, Battery Negative Terminal and Ground at Tray Pivot)	
25C	7027010	1	Cable, Red (Aux Pump Relay to Aux Pump)	
25D	7027011	1	Cable, Black (Tray Pivot to Engine Mount)	
25E	7024584	1	Cable, Red (Start Relay to Starter)	
25F	See Note	NSS	Boot, Terminal (Red) (Note: Not Available for Purchase)	
25G	See Note	NSS	Boot, Square Terminal (Red) (Note: Not Available for Purchase)	
26	3311505	15	Nut 5/16	
27	3311605	4	Nut 3/8	
28	3380473	1	Panel, Rubber	
29	3380498	1	Panel	
30	3380723	1	Panel	
31	3422446	1	Pin	
32	3573644	1	Plate, Tray Clamp	
33	3573669	1	Plate, Clamp	
34	3573727	1	Plate, Tray Clamp	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	3573728	1	Plate, Tray Clamp	
36	3574633	1	Plate	
37	3841143	1	Keeper, Pin	
38	3900316	10	Screw 3/8 x 1	
39	4240018	2	Strap, Cable Tie (Not Shown)	
40	4240033	AR	Tie, Wire (Not Shown)	
41	4341110	1	Support	
42	4711400	4	Washer 1/4	
43	4711500	30	Washer 5/16	
44	4711600	29	Washer 3/8	
45	4752000	1	Washer 5/8	
46	90028660	1	Clamp	
47	1001107975	1	Engine and Pump Assembly (See Separate Breakdown in this Section)	
49	0641606	4	Bolt 3/8 x 3/4	

FIGURE 3-12. DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

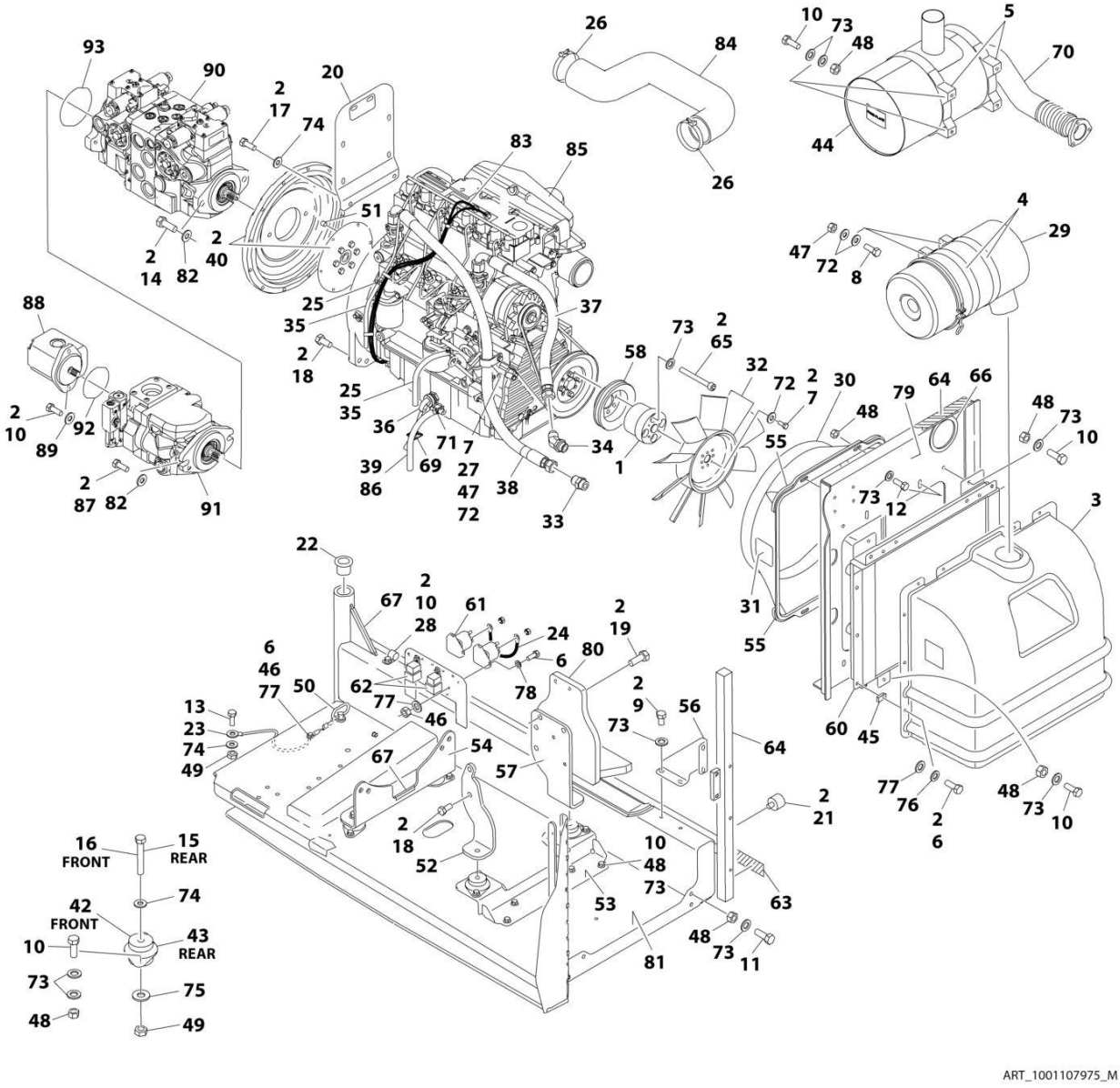


FIGURE 3-12. DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMP (WITH GENERATOR AND WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001107975	Ref	DEUTZ TD2011 ENGINE ASSEMBLY - WITH SAUER PUMPS (WITH SKYPOWER AND WITH COLD WEATHER PLUS PACKAGE)	M
1	0080244	1	Spacer, Fan	
2	0100011	AR	Compound, Locking	
3	0272060	1	Box, Air Intake	
4	0340003	2	Band, Air Cleaner	
5	0340051	2	Band, Muffler	
6	0641406	15	Bolt 1/4 x 3/4	
7	0641506	5	Bolt 5/16 x 3/4	
8	0641507	4	Bolt 5/16 x 7/8	
9	0641605	4	Bolt 3/8 x 5/8	
10	0641608	27	Bolt 3/8 x 1	
11	0641609	2	Bolt 3/8 x 1-1/8	
12	0641610	4	Bolt 3/8 x 1-1/4	
13	0641808	1	Bolt 1/2 x 1	
14	0641814	2	Bolt 1/2 x 1-3/4	
15	0641818	2	Bolt 1/2 x 2-1/4	
16	0641826	2	Bolt 1/2 x 3-1/4	
17	0711214	2	Bolt M12 x 30	
18	0771414	6	Bolt M14 x 30	
19	0711417	4	Bolt M14 x 45	
20	1001112766	1	Bracket, Muffler	
21	0940070	1	Bumper	
22	0961986	2	Bushing, Flanged	
23	1001131542	1	Lanyard	
24	1060904	1	Cable, Jumper	
25	1320022	2	Clamp	
26	1320058	2	Clamp	
27	1320060	1	Clamp	
28	1320223	1	J-Clip	
29	1340065	1	Air Cleaner Assembly	
29	7003655	1	Element, Air Cleaner	
29	7015013	1	Baffle, Rubber	
29	7015014	1	Clamp, Cap	
29	7015015	1	Cup	
29	7015003	1	Wingnut	
30	1671023	1	Shroud, Fan	
31	1703162	2	Decal - Fan Blade	
32	2060025	1	Fan	
33	2220451	1	Fitting, Straight	
34	2220498	1	Fitting, Elbow	
35	2720058	34 ft/ 10.3m	Hose	
36	2580062	1	Heater, Engine Block	
37	2720500	1	Hose, Oil Cooler (Top)	
38	2720501	1	Hose, Oil Cooler (Bottom)	
39	2750532	0.75 ft /0.2m	Hose	
40	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section))	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	3200362	2	Mount, Motor (Front)	
43	3200401	2	Mount, Motor (Rear)	
44	1001257277	1	Muffler	
45	3300454	10	Nut	
46	3311405	5	Nut 1/4	
47	3311505	5	Nut 5/16	
48	3311605	30	Nut 3/8	
49	3311805	5	Nut 1/2	
50	3422532	1	Pin, Hitch	
51	3520054	2	Plug	
52	3537416	1	Plate, Mounting (Front Right)	
53	3539971	1	Bracket, Engine Mounting (Front)	
54	3573142	1	Bracket, Engine Mounting (Rear)	
55	3573411	2	Plate, Clamp	
56	3573412	1	Gusset	
57	3573529	1	Plate, Mounting (Front Left)	
58	3580320	1	Pulley	
60	1001145382	1	Cooler, Engine Oil	
61	3740067	2	Relay, Start	
62	3740080	2	Relay	
63	3960543	1	Seal	
64	3960544	1	Seal	
65	4032022	4	Capscrew M10 x 90	
66	4060804	0.98 ft /0.3m	Flex-Trim	
67	4060805	0.67 ft /0.2m	Flex-Trim	
68	4240099	AR	Tie, Wire (Not Shown)	
69	4460234	3	Mount, Wire Tie	
70	4568293	1	Pipe, Exhaust	
71	4640751	1	Valve, Oil Drain	
72	4711500	13	Washer 5/16	
73	4711600	68	Washer 3/8	
74	4711800	7	Washer 1/2	
75	4740274	4	Washer, Snubbing	
76	4740518	10	Washer, Nylon	
77	4751400	20	Washer 1/4	
78	4791400	4	Washer 1/4	
79	4846552	1	Plate, Oil Cooler Mounting	
80	4846945	1	Mount, Generator	
81	4846946	1	Tray	
82	4891800	4	Washer 1/2	
83	4923468	1	Harness, Glow Plugs	
84	1001225118	1	Hose, Air Intake	
85	1001098601	1	Engine, Deutz TD2011 Components (See Separate Breakdown in this Section)	
86	8410013	1	Clamp, Gear	
87	0761215	2	Bolt M12 x 35	
88	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
89	4891600	2	Washer 3/8	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
90	1001108616	1	Pump Assembly - Sauer Tandem (See Separate Breakdown in this Section)	
91	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
92	3790152	1	O-Ring	
93	3790155	1	O-Ring	

FIGURE 3-13. DEUTZ TD2011 ENGINE COMPONENTS

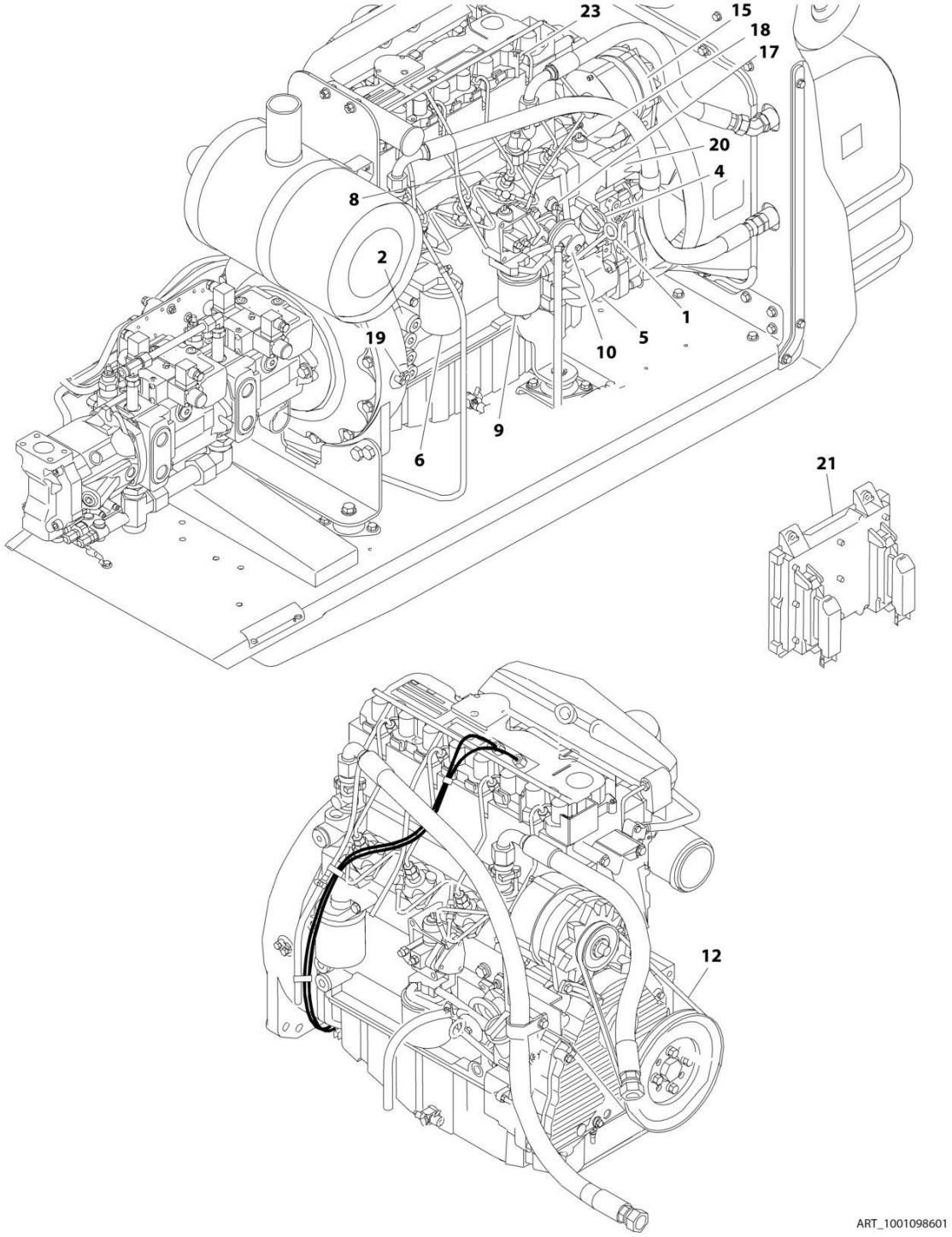


FIGURE 3-13. DEUTZ TD2011 ENGINE COMPONENTS

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)	

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

FIGURE 3-14. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

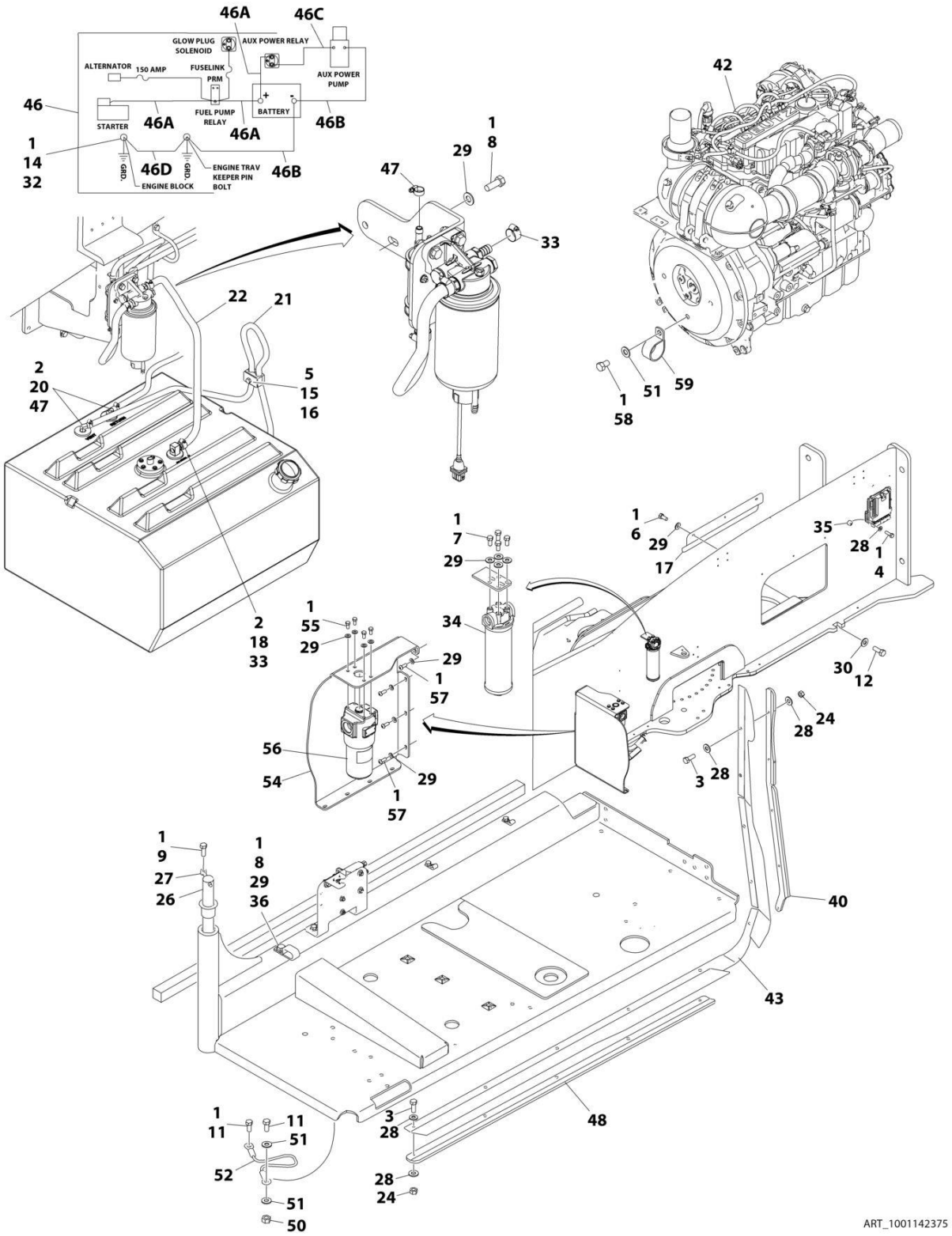


FIGURE 3-14. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142375	Ref	DEUTZ TCD2.9L4 ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)	K
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
14	0761210	1	Bolt M12 x 20	
15	1320187	1	Clamp	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover	
18	2180832	1	Fitting, Barbed	
20	2220313	2	Fitting, 90 Barbed	
21	2750532	5 ft/ 1.5m	Hose	
22	1001154405	1.9 ft/ 0.6m	Hose	
24	3311405	10	Nut 1/4	
26	3422446	1	Pin, Pivot	
27	3841143	1	Pin, Keeper	
28	4711400	24	Washer 1/4	
29	4711600	19	Washer 3/8	
30	4752000	1	Washer 5/8	
32	4812100	1	Washer M12	
33	8405006	2	Clamp	
34	1001108617	1	Hydraulic Pressure Filter Assembly	
34	70002231	1	Element, Filter	
35	1001110425	4	Spacer	
36	1001116792	1	Clamp	
38	1001138491	NLA	Harness, Fuel (Use p/n 1001222665) (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
40	1001145089	1	Clamp	
42	1001141812	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
43	1001145560	1	Panel, Rubber	
46	1001142610	1	Battery Cable Kit	
46A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
46A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd) and Aux Pump	
46B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
46C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
46C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
47	1320022	3	Clamp	
48	1001145842	1	Plate, Clamping	
50	3311805	1	Nut 1/2	
51	4711800	3	Washer 1/2	
52	1001131542	1	Lanyard	
54	3380723	1	Panel, Noise Reduction	
55	0651606	4	Bolt 3/8 x 3/4	
56	2120218	1	Filter, High Pressure	
56	2120219	1	Element, Filter	
56	70001344	1	O-Ring, Bowl	
56	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
57	3900316	5	Screw 3/8 x 1	
58	0641806	1	Bolt 1/2 x 3/4	
59	90028660	1	Clamp	

FIGURE 3-15. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

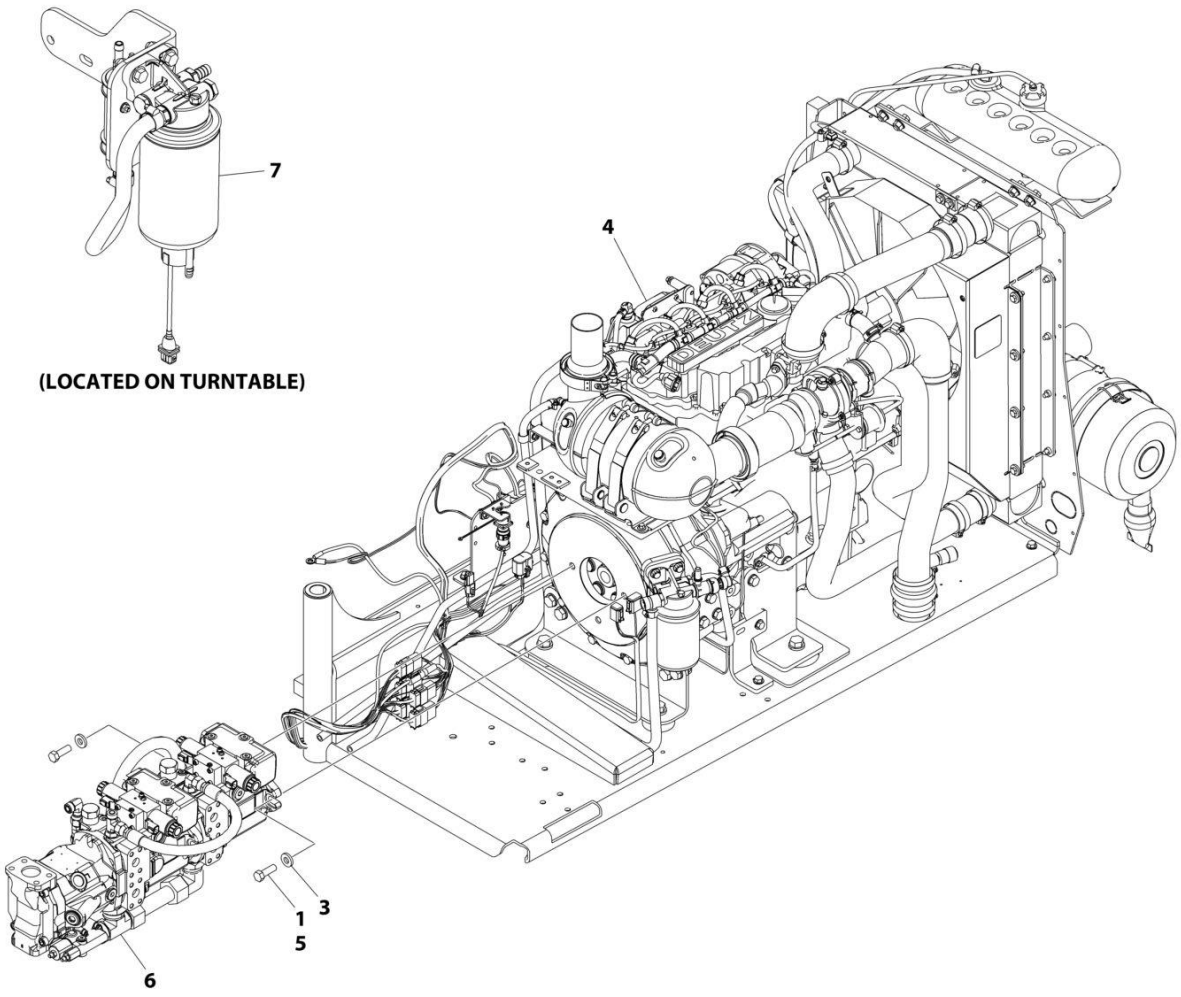
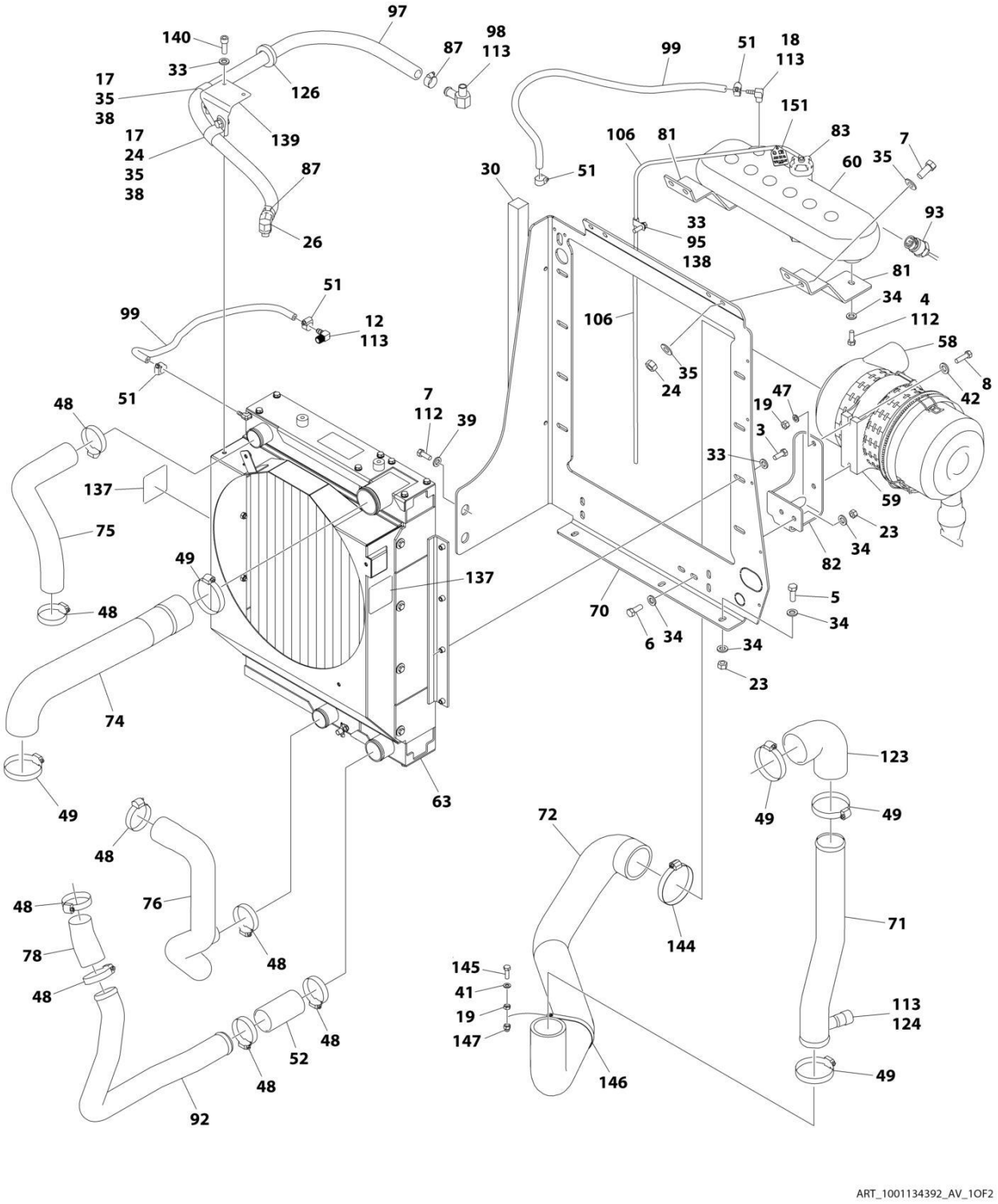


FIGURE 3-15. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141812	Ref	DEUTZ TCD2.9L4 ENGINE SUB-ASSEMBLY	AO
1	0641812	2	Bolt 1/2 x 1-1/2	
1	0641814	2	Bolt 1/2 x 1-3/4	
3	4891800	2	Washer 1/2	
4	1001134392	1	Engine Assembly (See Separate Breakdown in this Section)	
5	0100011	AR	Compound, Locking	
6	1001152963	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
7	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	

FIGURE 3-16. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)



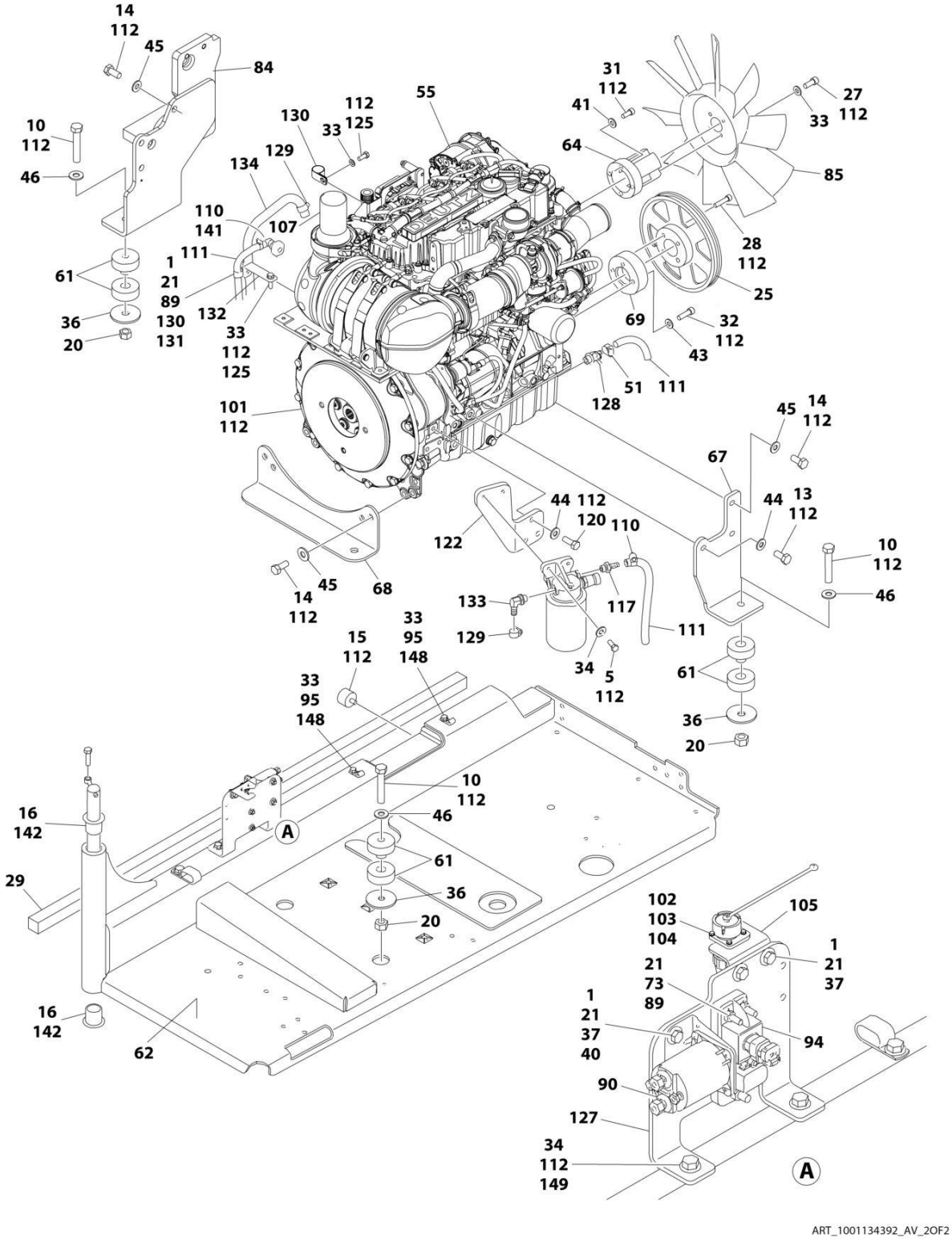


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FIGURE 3-16. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001134392	Ref	DEUTZ TCD2.9L4 ENGINE ASSEMBLY	AV
1	0641406	5	Bolt 1/4 x 3/4	
3	0641508	8	Bolt 5/16 x 1	
4	0641606	2	Bolt 3/8 x 3/4	
5	0641608	9	Bolt 3/8 x 1	
6	0641610	2	Bolt 3/8 x 1-1/4	
7	0641708	6	Bolt 7/16 x 1	
8	0700815	2	Bolt M8 x 35	
10	0682028	4	Bolt 5/8 x 3-1/2 Grade 8	
12	1001140564	1	Fitting, 90 Barbed	
13	0771212	1	Bolt M12 x 25 Grade 10.9	
14	0771414	9	Bolt M14 x 30 Grade 10.9	
15	0940070	1	Bumper	
16	0961986	2	Bushing, Flanged	
17	0641706	2	Bolt 7/16 x 3/4	
18	1001134488	1	Fitting, 90 Barbed	
19	3290801	3	Nut M8	
20	3272001	4	Nut 5/8 Grade 8	
21	3311405	6	Nut 1/4	
23	3311605	9	Nut 3/8	
24	3311705	5	Nut 7/16	
25	3580320	1	Pulley	
26	1001141719	1	Fitting, 90 Barbed	
27	3931512	4	Capscrew 5/16 x 3/4	
28	3931628	4	Capscrew 3/8 x 1-3/4	
29	3960543	1	Seal	
30	3960544	1	Seal	
31	4031914	4	Bolt M8 x 50	
32	4032014	4	Bolt M10 x 50	
33	4711500	19	Washer 5/16	
34	4711600	24	Washer 3/8	
35	4711700	10	Washer 7/16	
36	1001146219	4	Washer Special	
37	4751400	8	Washer 1/4	
38	8406302	2	Clamp	
39	4751700	2	Washer 7/16	
40	4791400	2	Starwasher 1/4	
41	4811900	5	Washer M8	
42	4811902	2	Washer M8	
43	4812000	4	Washer M10	
44	4812100	4	Washer M12	
45	4812200	9	Washer M14	
46	4892000	4	Washer 5/8	
47	4831900	2	Washer M8	
48	8405201	8	Clamp	
49	8405204	5	Clamp	
51	8410013	5	Clamp	
52	91563070	1	Coupling, Rubber	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55	1001249964	1	Engine, Deutz TCD2.9L4 (See Separate Breakdown in this Section)	
58	1001133633	1	Air Cleaner Assembly	
58	70024190	1	Element, Air Filter	
59	1001133634	1	Clamp	
60	1001166393	1	Tank, Surge	
61	1001155575	4	Mount, Motor	
62	1001191272	1	Tray	
63	1001256864	1	Radiator	
64	1001135138	1	Spacer, Fan	
67	1001135560	1	Support, Engine	
68	1001135562	1	Support, Engine - Rear	
69	1001135679	1	Spacer, Pulley	
70	1001135680	1	Support, Radiator	
71	1001135901	1	Pipe, Air Intake	
72	1001264917	1	Pipe, Air Intake	
73	3931432	1	Capscrew 1/4 x 2	
74	1001264982	1	Pipe, Air Cleaner to Intake	
75	1001135924	1	Hose, Radiator (Upper)	
76	1001135926	1	Hose, Radiator (Lower)	
78	1001135943	1	Coupling, Rubber	
81	1001136626	2	Bracket	
82	1001136665	1	Bracket	
83	1001136834	1	Cap, Tank	
84	1001283008	1	Support, Engine	
85	1001137276	1	Fan	
87	8405007	2	Clamp	
89	4711400	3	Washer 1/4	
90	1001117308	1	Relay	
92	1001135913	1	Pipe, Turbo to Air Cleaner	
93	1001138827	1	Sensor, Coolant Level	
94	1001138228	1	Module, Power	
94	70023592	1	Fuse 20Amp (Switched Output)	
94	70023593	1	Fuse 30Amp (Battery Output)	
95	1001138253	5	Clamp	
96	1001138346	1	Harness, Engine (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
97	1001138524	1	Hose	
98	1001138559	1	Fitting, 90	
99	2720015	5 ft /2 m	Hose	
101	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
102	3310401	3	Nut #4	
103	3910408	3	Screw #4 x 1/2	
104	4710400	3	Washer #4	
105	1001139240	1	Bracket	
106	1001138248	4 ft /1.2 m	Tubing	
107	1001153024	1	Pipe, Exhaust	
110	1320022	2	Clamp	
111	1001165035	31 ft /10 m	Hose	
112	0100011	AR	Compound, Locking	
113	0100020	AR	Sealant	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
114	1001141304	1	Wire, Glow Plug (Not Shown)	
115	1001135779	1	Cable, Alternator Positive (Not Shown)	
117	1001141717	1	Fitting, Straight	
120	0761214	3	Bolt M12 x 30	
122	1001142685	1	Bracket	
123	1001165820	1	Pipe, Elbow	
124	1001143390	1	Indicator, Air Filter Service	
125	0760810	2	Bolt M8 x 20	
126	1001144089	1	Grommet	
127	1001145154	1	Plate, Mounting	
128	4640751	1	Valve, Oil Drain	
129	8405006	2	Clamp	
130	8406102	AR	Clip	
131	8406112	1	Clip	
132	1001138717	1	Bracket	
133	1001142501	1	Fitting, 90 Barbed	
134	1001154405	5 ft /2 m	Hose	
135	1001148843	1	Harness, Fuel Filter (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
137	1703162	2	Decal - Fan	
138	0641503	1	Bolt 5/16 x 3/8	
139	1001153387	1	Plate	
140	3931508	2	Capscrew 5/16 x 1/2	
141	1001155823	1	Coupling	
142	0100062	AR	Adhesive, Loctite #680	
143	4240099	AR	Tie-Strap (Not Shown)	
144	8410011	1	Clamp	
145	0700812	1	Bolt M8 x 25	
146	1321289	1	Clamp	
147	3290806	1	Nut M8	
148	0641510	2	Bolt 5/16 x 1-1/4	
149	0641612	2	Bolt 3/8 x 1-1/2	
150	4240032	AR	Tie-Strap (Not Shown)	
151	1001291401	1	Tag, Coolant	

SECTION 3 - ENGINE

FIGURE 3-17. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)

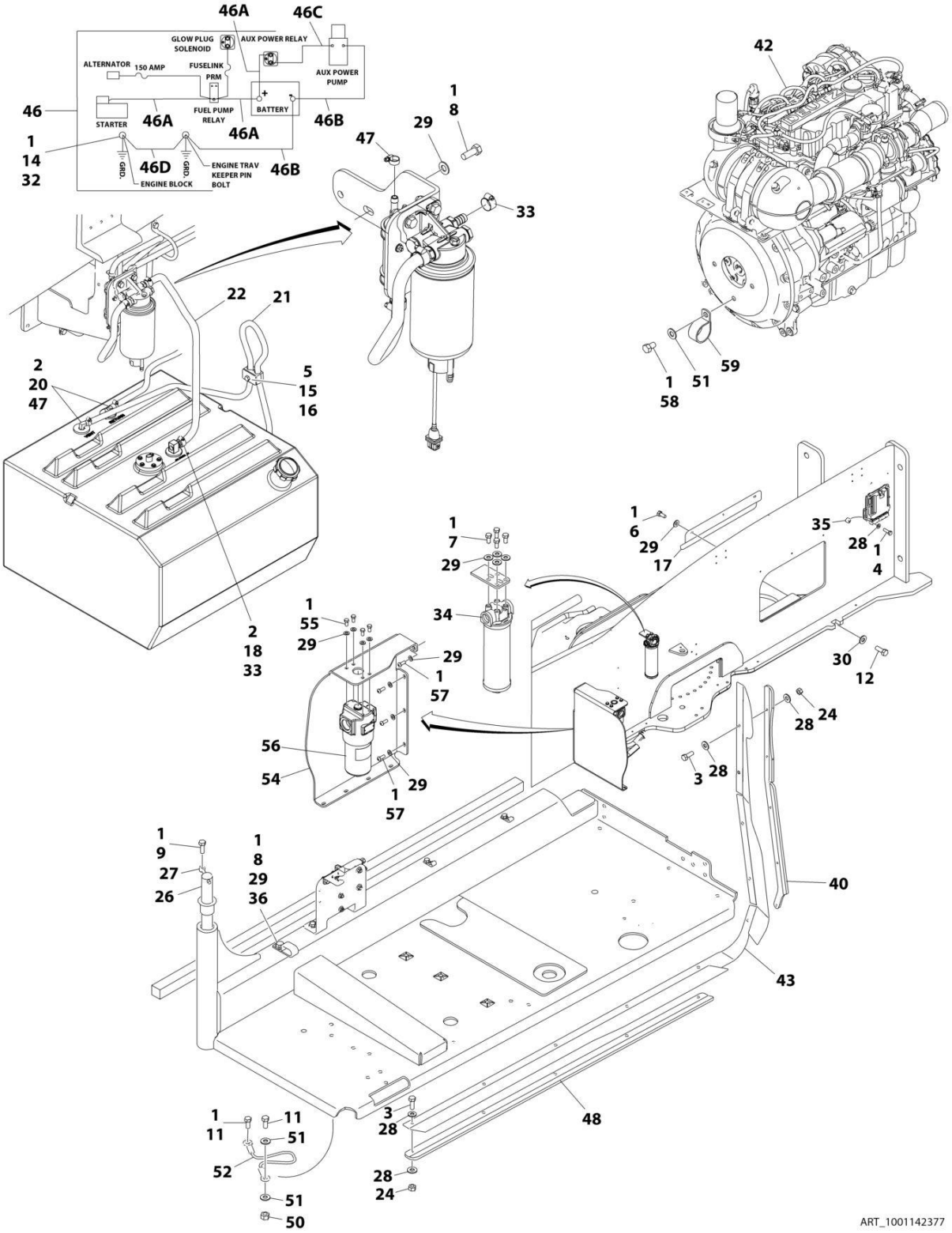


FIGURE 3-17. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142377	Ref	DEUTZ TCD2.9L4 ENGINE INSTALLATION - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)	M
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
11	0641808	AR	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
14	0761210	1	Bolt M12 x 20	
15	1320187	1	Clamp	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover	
18	2180832	1	Fitting, Barbed	
20	2220313	2	Fitting, 90 Barbed	
21	2750532	5 ft/ 1.5m	Hose	
22	1001154405	1.9 ft /0.6m	Hose	
24	3311405	10	Nut 1/4	
26	3422446	1	Pin, Pivot	
27	3841143	1	Pin, Keeper	
28	4711400	24	Washer 1/4	
29	4711600	19	Washer 3/8	
30	4752000	1	Washer 5/8	
32	4812100	1	Washer M12	
33	8405006	2	Clamp	
34	1001108617	1	Hydraulic Pressure Filter Assembly	
34	70002231	1	Element, Filter	
35	1001110425	4	Spacer	
36	1001116792	1	Clamp	
38	1001138491	NLA	Harness, Fuel (Use p/n 1001222665) (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
40	1001145089	1	Clamp	
42	1001141813	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
43	1001145560	1	Panel, Rubber	
46	1001142610	1	Battery Cable Kit	C
46A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
46A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd) and Aux Pump	
46B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
46C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
46C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
47	1320022	3	Clamp	
48	1001145842	1	Plate, Clamping	
50	3311805	1	Nut 1/2	
51	4711800	3	Washer 1/2	
52	1001131542	1	Lanyard	
54	3380723	1	Panel, Noise Reduction	
55	0651606	4	Bolt 3/8 x 3/4	
56	2120218	1	Filter, High Pressure	
56	2120219	1	Element, Filter	
56	70001344	1	O-Ring, Bowl	
56	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
57	3900316	5	Screw 3/8 x 1	
58	0641806	1	Bolt 1/2 x 3/4	
59	90028660	1	Clamp	

FIGURE 3-18. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)

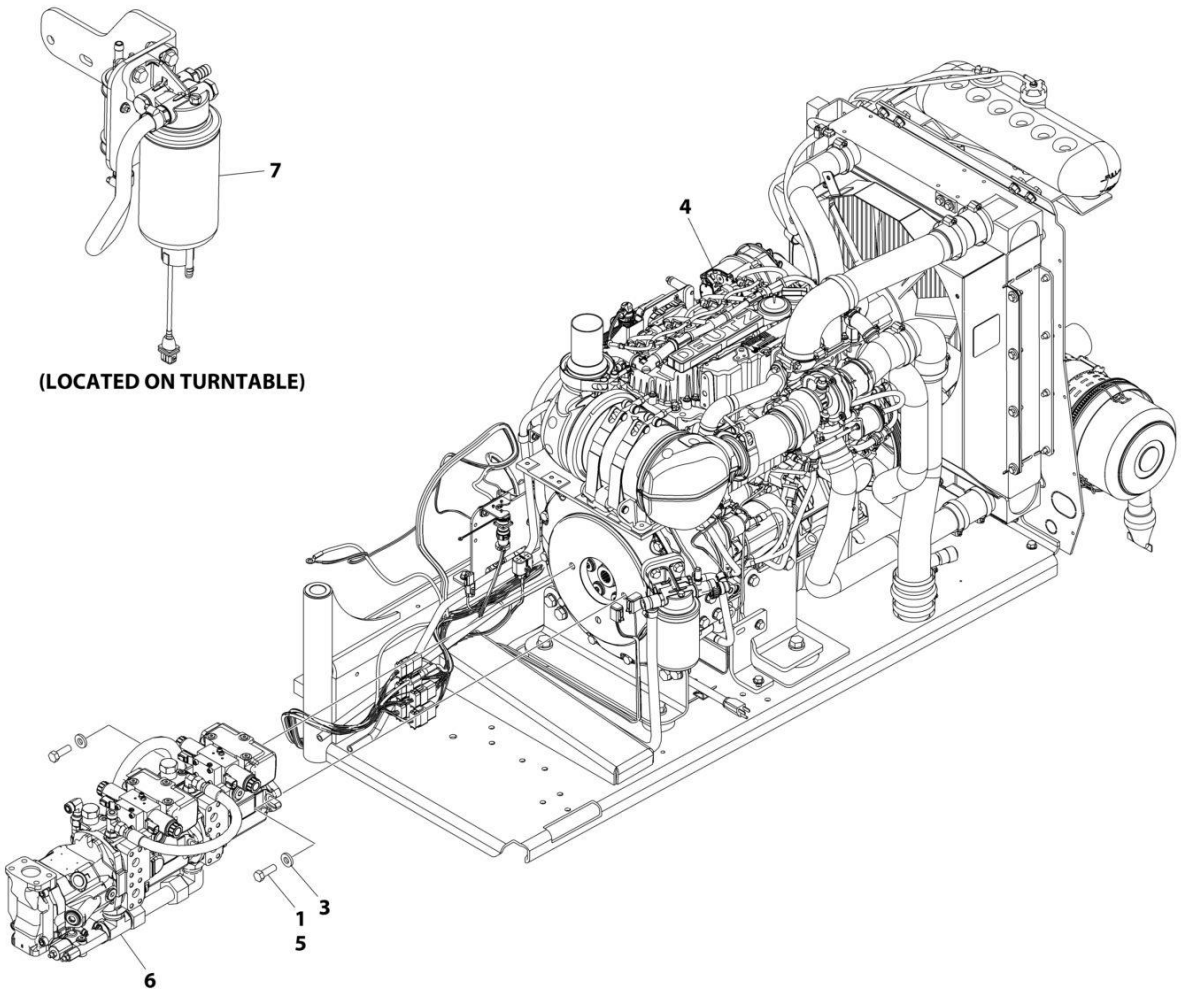
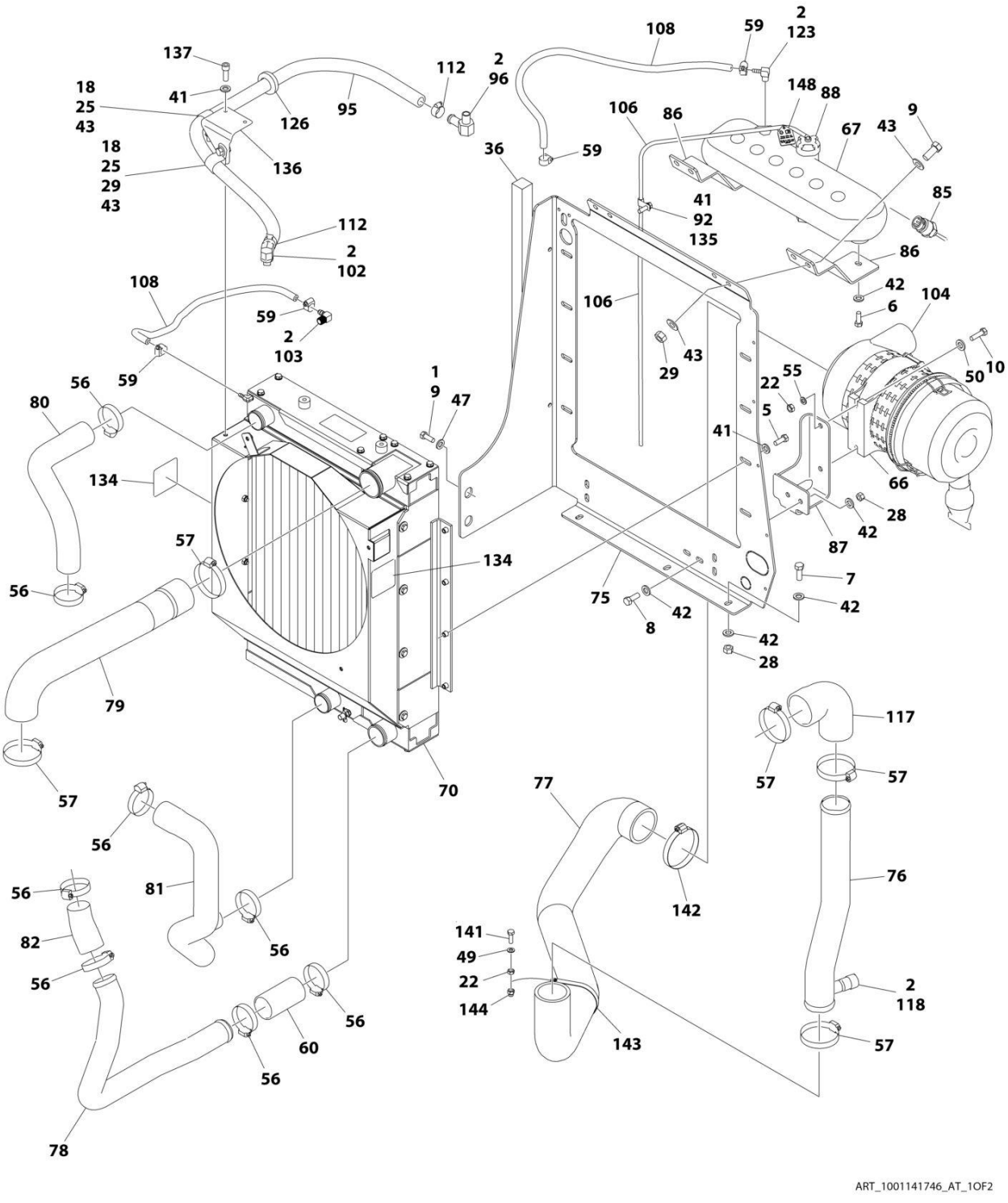


FIGURE 3-18. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141813	Ref	DEUTZ TCD2.9L4 ENGINE SUB-ASSEMBLY	AP
1	0641812	2	Bolt 1/2 x 1-1/2	
1	0641814	2	Bolt 1/2 x 1-1/2	
3	4740171	2	Washer 1/2	
4	1001141746	1	Engine Assembly (See Separate Breakdown in this Section)	
5	0100011	AR	Compound, Locking	
6	1001152963	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
7	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	

FIGURE 3-19. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)



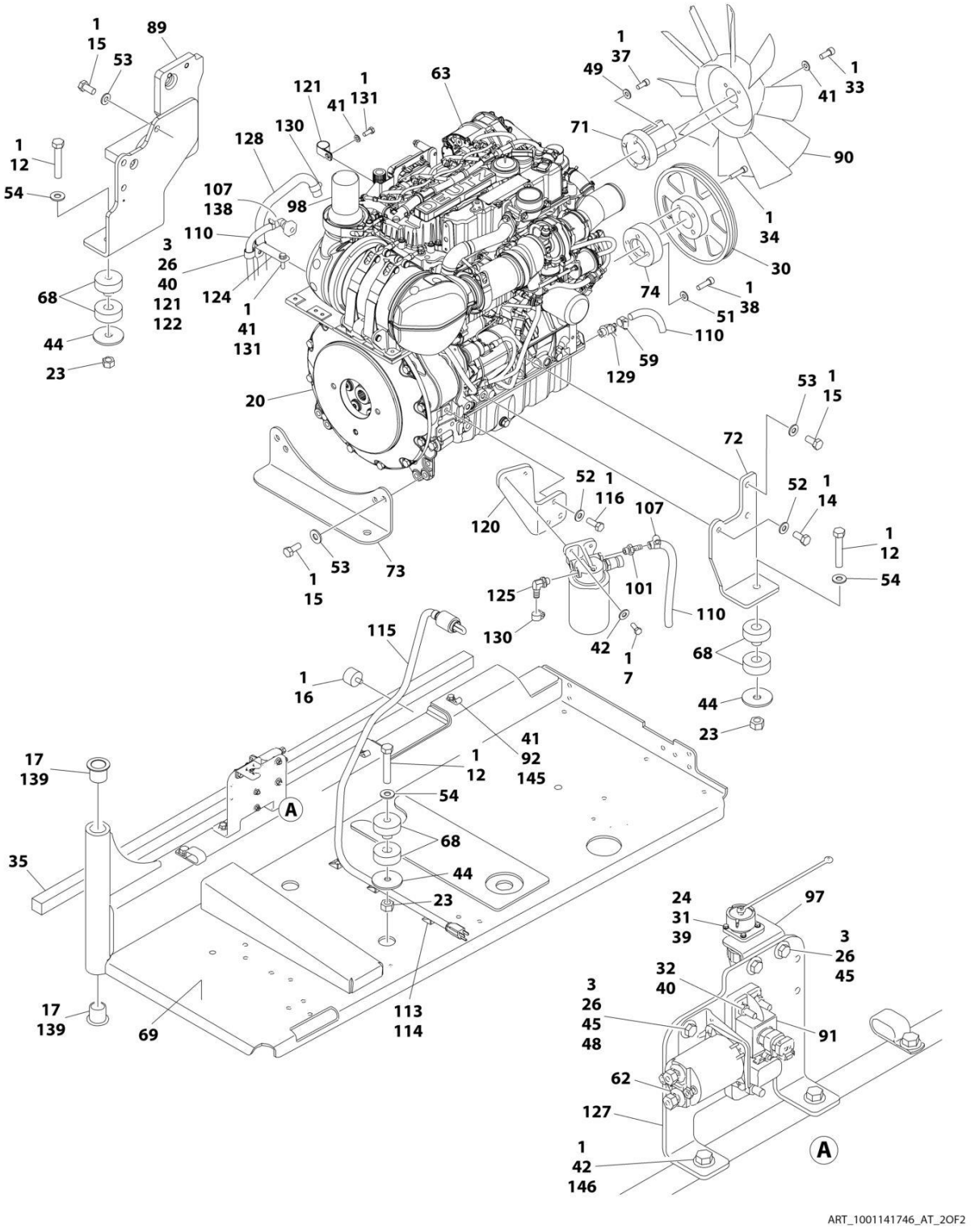

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FIGURE 3-19. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH REXROTH PUMP (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141746	Ref	DEUTZ TCD2.9L4 ENGINE ASSEMBLY	AT
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant	
3	0641406	5	Bolt 1/4 x 3/4	
5	0641508	8	Bolt 5/16 x 1	
6	0641606	2	Bolt 3/8 x 3/4	
7	0641608	9	Bolt 3/8 x 1	
8	0641610	2	Bolt 3/8 x 1-1/4	
9	0641708	6	Bolt 7/16 x 1	
10	0700815	2	Bolt M8 x 35	
12	0682028	4	Bolt 5/8 x 3-1/2 Grade 8	
14	0771212	1	Bolt M12 x 25 Grade 10.9	
15	0771414	9	Bolt M14 x 30 Grade 10.9	
16	0940070	1	Bumper	
17	0961986	2	Bushing, Flanged	
18	0641706	2	Bolt 7/16 x 3/4	
20	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
22	3290801	3	Nut M8	
23	3272001	4	Nut 5/8 Grade 8	
24	3310401	3	Nut #4	
25	8406302	2	Clamp	
26	3311405	6	Nut 1/4	
28	3311605	9	Nut 3/8	
29	3311705	5	Nut 7/16	
30	3580320	1	Pulley	
31	3910408	3	Screw #4 x 1/2	
32	3931432	1	Capscrew 1/4 x 2	
33	3931512	4	Capscrew 5/16 x 3/4	
34	3931628	4	Capscrew 3/8 x 1-3/4	
35	3960543	1	Seal	
36	3960544	1	Seal	
37	4031914	4	Bolt M8 x 50	
38	4032014	4	Bolt M10 x 50	
39	4710400	3	Washer #4	
40	4711400	3	Washer 1/4	
41	4711500	19	Washer 5/16	
42	4711600	24	Washer 3/8	
43	4711700	10	Washer 7/16	
44	1001146219	4	Washer Special	
45	4751400	8	Washer 1/4	
47	4751700	2	Washer 7/16	
48	4791400	2	Starwasher 1/4	
49	4811900	5	Washer M8	
50	4811902	2	Washer M8	
51	4812000	4	Washer M10	
52	4812100	4	Washer M12	
53	4812200	9	Washer M14	
54	4892000	4	Washer 5/8	
55	4831900	2	Washer M8	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	8405201	8	Clamp	
57	8405204	5	Clamp	
59	8410013	5	Clamp	
60	91563070	1	Coupling, Rubber	
62	1001117308	1	Relay	
63	1001249964	1	Engine, Deutz TCD2.9L4 (See Separate Breakdown in this Section)	
66	1001133634	1	Clamp	
67	1001166393	1	Tank, Surge	
68	1001155575	4	Mount, Motor	
69	1001191272	1	Tray	
70	1001256864	1	Radiator	
71	1001135138	1	Spacer, Fan	
72	1001135560	1	Support, Engine	
73	1001135562	1	Support, Engine - Rear	
74	1001135679	1	Spacer, Pulley	
75	1001135680	1	Support, Radiator	
76	1001135901	1	Pipe, Air Intake	
77	1001264917	1	Hose, Air Intake	
78	1001135913	1	Pipe, Turbo to Air Cleaner	
79	1001264982	1	Hose, Air Cleaner to Intake	
80	1001135924	1	Hose, Radiator (Upper)	
81	1001135926	1	Hose, Radiator (Lower)	
82	1001135943	1	Coupling, Rubber	
85	1001138827	1	Sensor, Coolant Level	
86	1001136626	2	Bracket	
87	1001136665	1	Bracket	
88	1001136834	1	Cap, Tank	
89	1001283008	1	Support, Engine	
90	1001137276	1	Fan	
91	1001138228	1	Module, Power	
91	70023592	1	Fuse 20Amp (Switched Output)	
91	70023593	1	Fuse 30Amp (Battery Output)	
92	1001138253	5	Clamp	
94	1001138346	1	Harness, Engine (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
95	1001138524	1	Hose	
96	1001138559	1	Fitting, 90	
97	1001139240	1	Bracket	
98	1001153024	1	Pipe, Exhaust	
100	1001141304	1	Wire, Glow Plug (Not Shown)	
101	1001141717	1	Fitting, Straight	
102	1001141719	1	Fitting, 90 Barbed	
103	1001140564	1	Fitting, 90 Barbed	
104	1001133633	1	Air Cleaner Assembly	
104	70024190	1	Element, Air Filter	
105	1001135779	1	Cable, Alternator Positive (Not Shown)	
106	1001138248	4 ft /1.2 m	Tubing	
107	1320022	2	Clamp	
108	2720015	5 ft /2 m	Hose	
110	1001165035	31 ft /10 m	Hose	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
112	8405007	2	Clamp	
113	4240099	AR	Tie-Strap (Used to Secure Block Heater Cord)	
114	4460234	3	Mount, Wire Tie (Used to Secure Block Heater Cord)	
115	1001140312	1	Heater, Block	
116	0761214	3	Bolt M12 x 30	
117	1001165820	1	Pipe, Elbow	
118	1001143390	1	Indicator, Air Filter Service	
120	1001142685	1	Bracket	
121	8406102	AR	Clip	
122	8406112	1	Clip	
123	1001134488	1	Fitting, 90 Barbed	
124	1001138717	1	Bracket	
125	1001142501	1	Fitting, 90 Barbed	
126	1001144089	1	Grommet	
127	1001145154	1	Plate, Mounting	
128	1001154405	5 ft /2 m	Hose	
129	4640751	1	Valve, Oil Drain	
130	8405006	2	Clamp	
131	0760810	AR	Bolt M8 x 20	
132	1001148843	1	Harness, Fuel Filter (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
134	1703162	2	Decal - Fan	
135	0641503	1	Bolt 5/16 x 3/8	
136	1001153387	1	Plate	
137	3931508	2	Capscrew 5/16 x 1/2	
138	1001155823	1	Coupling	
139	0100062	AR	Adhesive, Loctite #680	
140	1001181895	AR	Adhesive, Loctite #640 (Not Shown - Apply to Block Heater)	
141	0700812	1	Bolt M8 x 25	
142	8410011	1	Clamp	
143	1321289	1	Clamp	
144	3290806	1	Nut M8	
145	0641510	2	Bolt 5/16 x 1-1/4	
146	0641612	2	Bolt 3/8 x 1-1/2	
147	4240032	AR	Tie-Strap (Not Shown)	
148	1001291401	1	Tag, Coolant	

FIGURE 3-20. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

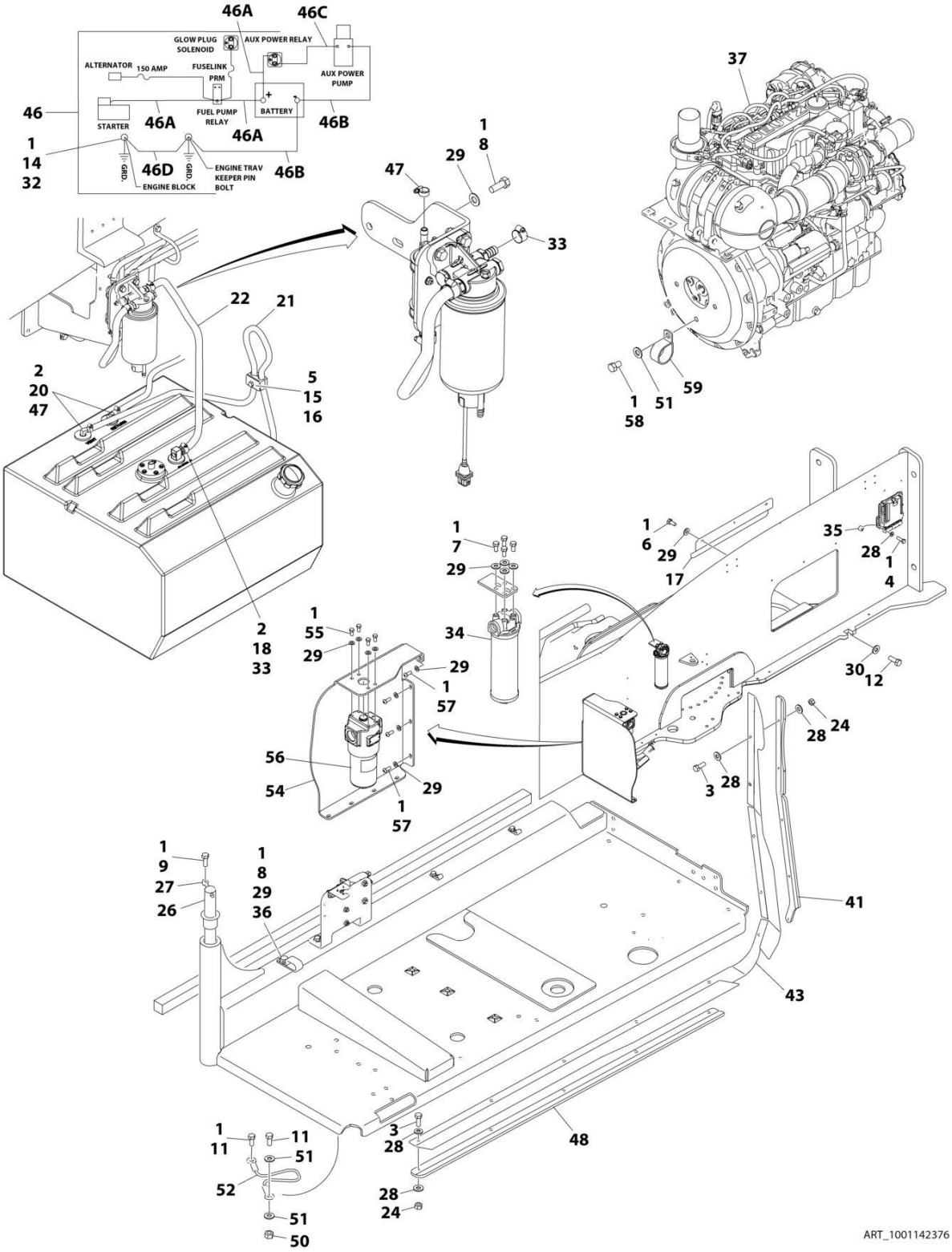


FIGURE 3-20. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142376	Ref	DEUTZ TCD2.9L4 ENGINE INSTALLATION - WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)	K
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641611	2	Bolt 3/8 x 1-1/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
14	0761210	1	Bolt M12 x 20	
15	1320187	1	Clamp	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover	
18	2180832	1	Fitting, Barbed	
20	2220313	2	Fitting, 90 Barbed	
21	2750532	5 ft/ 1.5m	Hose	
22	1001154405	1.9 ft/ 0.6m	Hose	
24	3311405	10	Nut 1/4	
26	3422446	1	Pin, Pivot	
27	3841143	1	Pin, Keeper	
28	4711400	24	Washer 1/4	
29	4711600	19	Washer 3/8	
30	4752000	1	Washer 5/8	
32	4812100	1	Washer M12	
33	8405006	2	Clamp	
34	1001108617	1	Hydraulic Pressure Filter Assembly	
34	70002231	1	Element, Filter	
35	1001110425	4	Spacer	
36	1001116792	1	Clamp	
37	1001134390	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
39	1001138491	NLA	Harness, Fuel (Use p/n 1001222665) (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
41	1001145089	1	Clamp	
43	1001145560	1	Panel, Rubber	
46	1001142610	1	Battery Cable Kit	C
46A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
46A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd) and Aux Pump	
46B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
46C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
47	1320022	3	Clamp	
48	1001145842	1	Plate, Clamping	
50	3311805	1	Nut 1/2	
51	4711800	3	Washer 1/2	
52	1001131542	1	Lanyard	
54	3380723	1	Panel, Noise Reduction	
55	0651606	4	Bolt 3/8 x 3/4	
56	2120218	1	Filter, High Pressure	
56	2120219	1	Element, Filter	
56	70001344	1	O-Ring, Bowl	
56	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
57	3900316	5	Screw 3/8 x 1	
58	0641806	1	Bolt 1/2 x 3/4	
59	90028660	1	Clamp	

FIGURE 3-21. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH SAUER PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

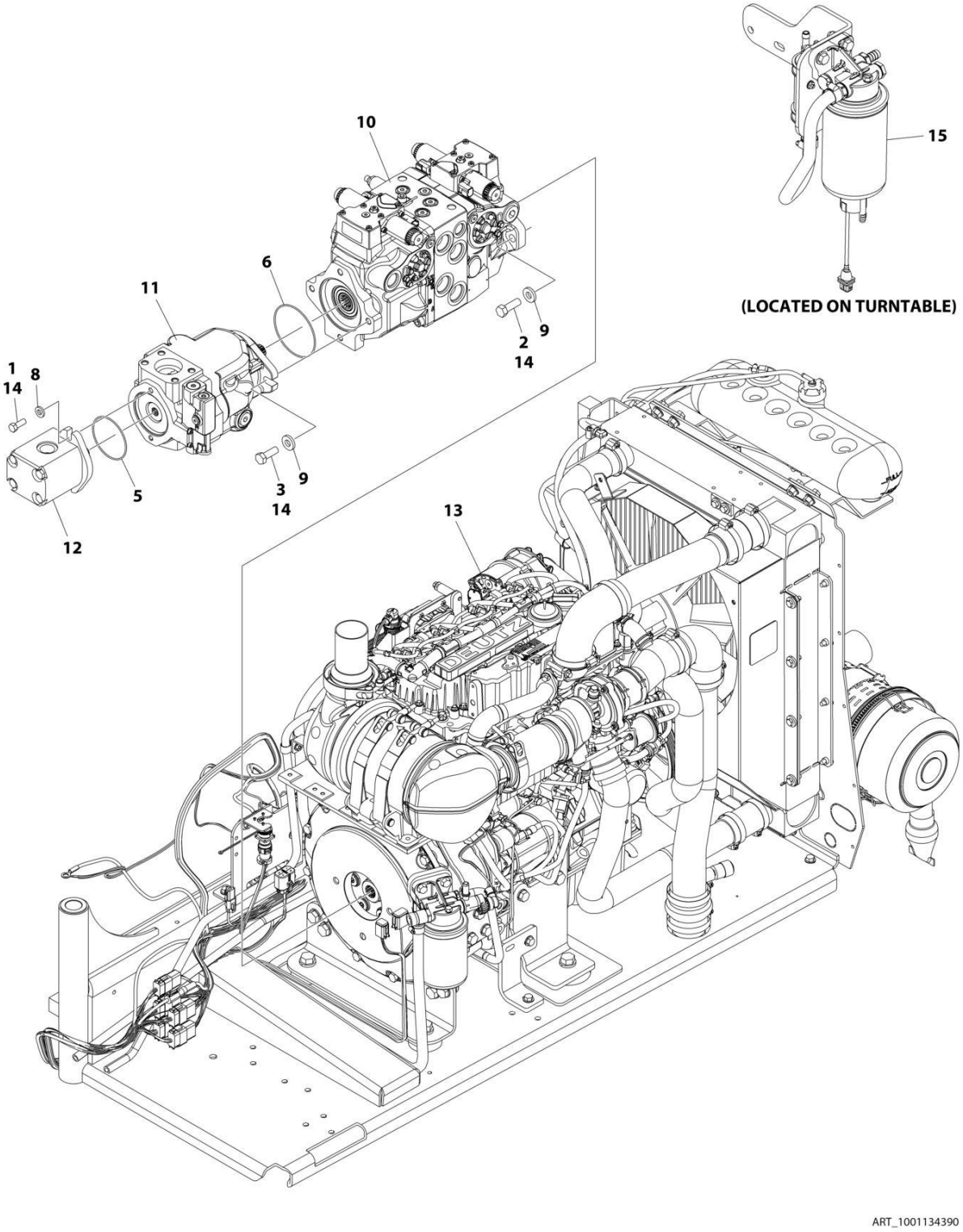
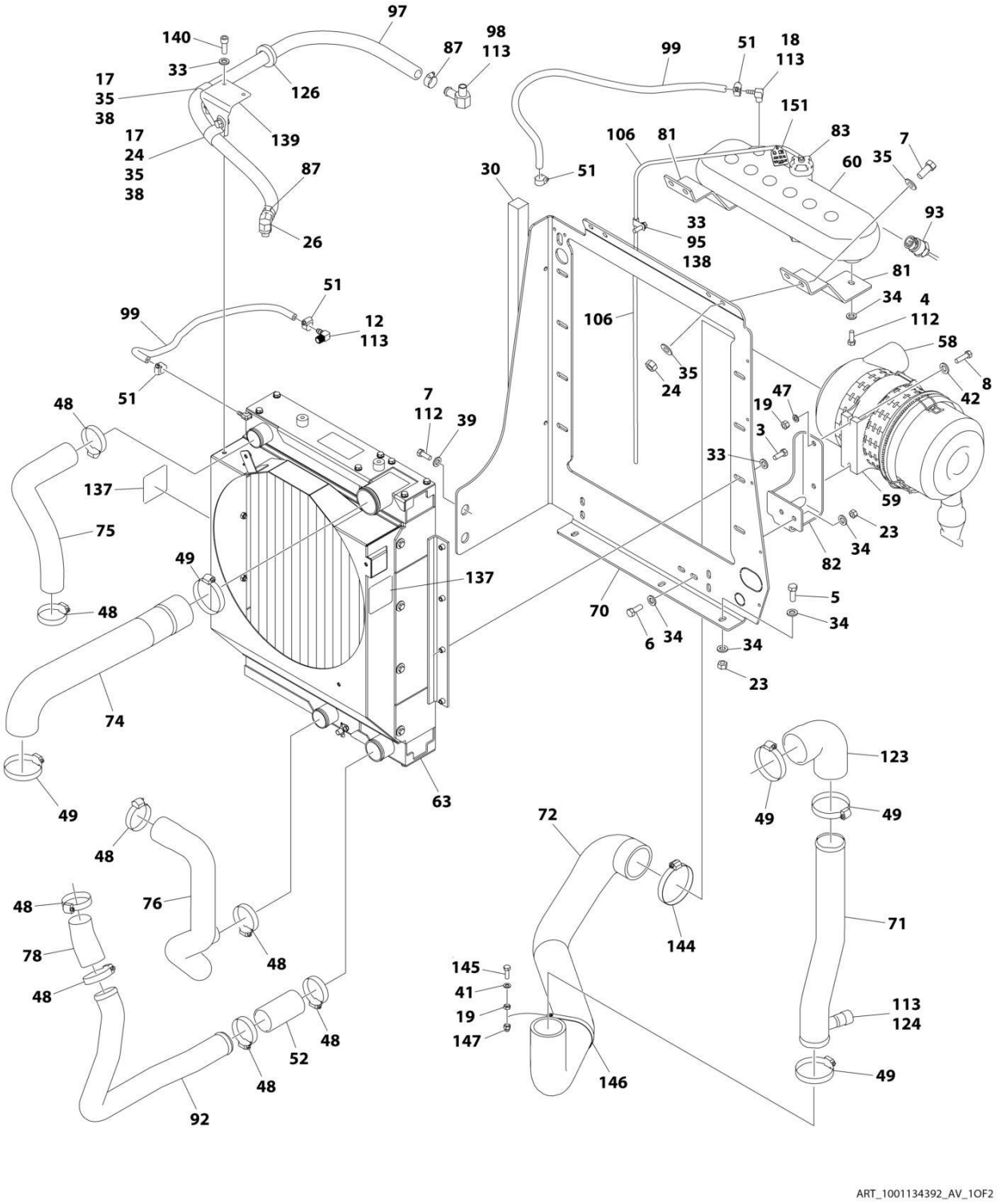


FIGURE 3-21. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH SAUER PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001134390	Ref	DEUTZ TCD2.9L4 ENGINE SUB-ASSEMBLY	AM
1	0641608	2	Bolt 3/8 x 1	
2	0641812	2	Bolt 1/2 x 1-1/2	
2	0641814	2	Bolt 1/2 x 1-3/4	
3	0761215	2	Bolt M12 x 35	
5	3790152	1	O-Ring	
6	3790155	1	O-Ring	
8	4891600	2	Washer 3/8	
9	4891800	4	Washer 1/2	
10	1001108616	1	Pump Assembly - Sauer Tandem (See Separate Breakdown in this Section)	
11	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
12	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
13	1001134392	1	Engine Assembly (See Separate Breakdown in this Section)	
14	0100011	AR	Compound, Locking	
15	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	

FIGURE 3-22. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH SAUER PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)



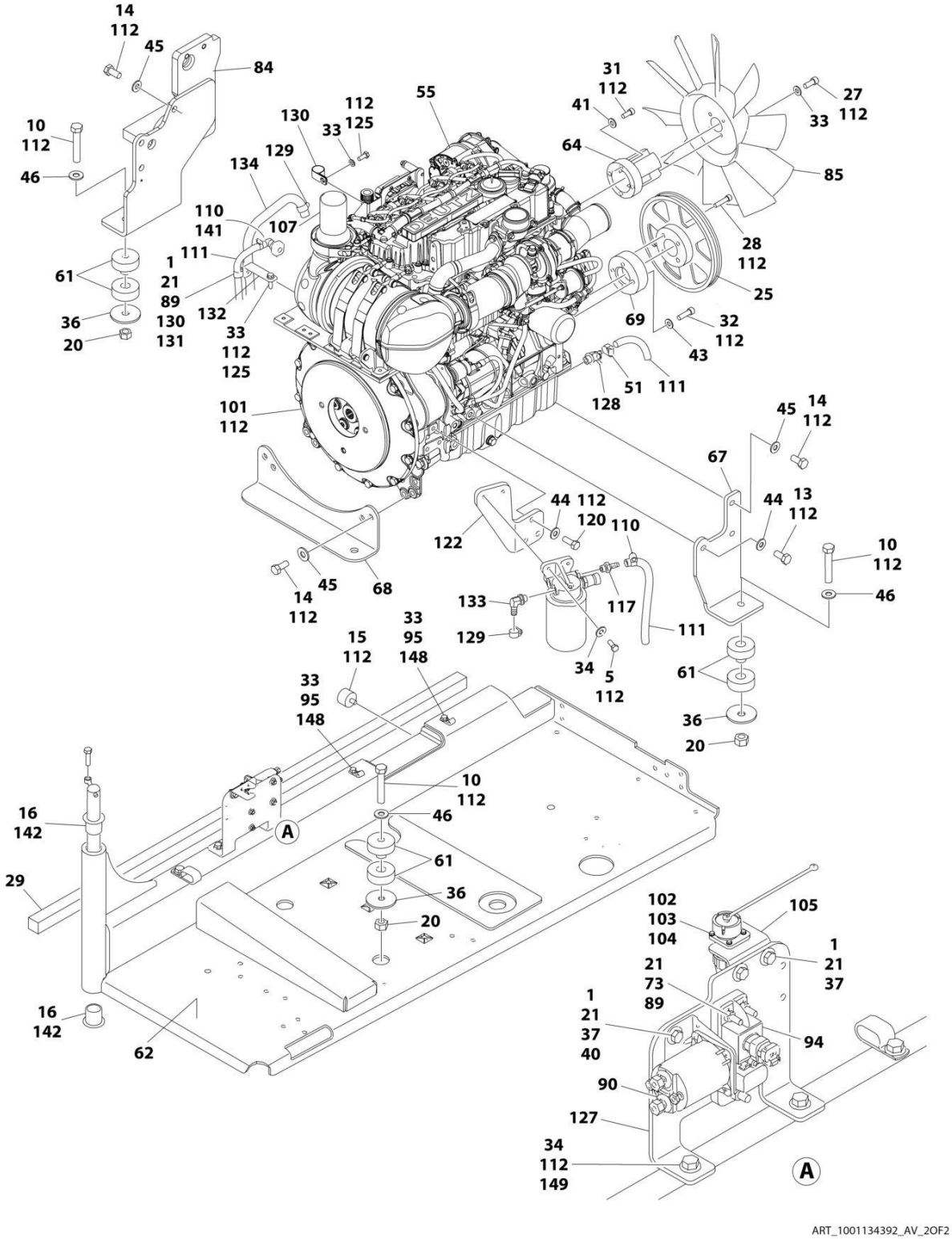


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FIGURE 3-22. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH SAUER PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001134392	Ref	DEUTZ TCD2.9L4 ENGINE ASSEMBLY	AV
1	0641406	5	Bolt 1/4 x 3/4	
3	0641508	8	Bolt 5/16 x 1	
4	0641606	2	Bolt 3/8 x 3/4	
5	0641608	9	Bolt 3/8 x 1	
6	0641610	2	Bolt 3/8 x 1-1/4	
7	0641708	6	Bolt 7/16 x 1	
8	0700815	2	Bolt M8 x 35	
10	0682028	4	Bolt 5/8 x 3-1/2 Grade 8	
12	1001140564	1	Fitting, 90 Barbed	
13	0771212	1	Bolt M12 x 25 Grade 10.9	
14	0771414	9	Bolt M14 x 30 Grade 10.9	
15	0940070	1	Bumper	
16	0961986	2	Bushing, Flanged	
17	0641706	2	Bolt 7/16 x 3/4	
18	1001134488	1	Fitting, 90 Barbed	
19	3290801	3	Nut M8	
20	3272001	4	Nut 5/8 Grade 8	
21	3311405	6	Nut 1/4	
23	3311605	9	Nut 3/8	
24	3311705	5	Nut 7/16	
25	3580320	1	Pulley	
26	1001141719	1	Fitting, 90 Barbed	
27	3931512	4	Capscrew 5/16 x 3/4	
28	3931628	4	Capscrew 3/8 x 1-3/4	
29	3960543	1	Seal	
30	3960544	1	Seal	
31	4031914	4	Bolt M8 x 50	
32	4032014	4	Bolt M10 x 50	
33	4711500	19	Washer 5/16	
34	4711600	24	Washer 3/8	
35	4711700	10	Washer 7/16	
36	1001146219	4	Washer Special	
37	4751400	8	Washer 1/4	
38	8406302	2	Clamp	
39	4751700	2	Washer 7/16	
40	4791400	2	Starwasher 1/4	
41	4811900	5	Washer M8	
42	4811902	2	Washer M8	
43	4812000	4	Washer M10	
44	4812100	4	Washer M12	
45	4812200	9	Washer M14	
46	4892000	4	Washer 5/8	
47	4831900	2	Washer M8	
48	8405201	8	Clamp	
49	8405204	5	Clamp	
51	8410013	5	Clamp	
52	91563070	1	Coupling, Rubber	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55	1001249964	1	Engine, Deutz TCD2.9L4 (See Separate Breakdown in this Section)	
58	1001133633	1	Air Cleaner Assembly	
58	70024190	1	Element, Air Filter	
59	1001133634	1	Clamp	
60	1001166393	1	Tank, Surge	
61	1001155575	4	Mount, Motor	
62	1001191272	1	Tray	
63	1001256864	1	Radiator	
64	1001135138	1	Spacer, Fan	
67	1001135560	1	Support, Engine	
68	1001135562	1	Support, Engine - Rear	
69	1001135679	1	Spacer, Pulley	
70	1001135680	1	Support, Radiator	
71	1001135901	1	Pipe, Air Intake	
72	1001264917	1	Pipe, Air Intake	
73	3931432	1	Capscrew 1/4 x 2	
74	1001264982	1	Pipe, Air Cleaner to Intake	
75	1001135924	1	Hose, Radiator (Upper)	
76	1001135926	1	Hose, Radiator (Lower)	
78	1001135943	1	Coupling, Rubber	
81	1001136626	2	Bracket	
82	1001136665	1	Bracket	
83	1001136834	1	Cap, Tank	
84	1001283008	1	Support, Engine	
85	1001137276	1	Fan	
87	8405007	2	Clamp	
89	4711400	3	Washer 1/4	
90	1001117308	1	Relay	
92	1001135913	1	Pipe, Turbo to Air Cleaner	
93	1001138827	1	Sensor, Coolant Level	
94	1001138228	1	Module, Power	
94	70023592	1	Fuse 20Amp (Switched Output)	
94	70023593	1	Fuse 30Amp (Battery Output)	
95	1001138253	5	Clamp	
96	1001138346	1	Harness, Engine (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
97	1001138524	1	Hose	
98	1001138559	1	Fitting, 90	
99	2720015	5 ft /2 m	Hose	
101	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
102	3310401	3	Nut #4	
103	3910408	3	Screw #4 x 1/2	
104	4710400	3	Washer #4	
105	1001139240	1	Bracket	
106	1001138248	4 ft /1.2 m	Tubing	
107	1001153024	1	Pipe, Exhaust	
110	1320022	2	Clamp	
111	1001165035	31 ft /10 m	Hose	
112	0100011	AR	Compound, Locking	
113	0100020	AR	Sealant	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
114	1001141304	1	Wire, Glow Plug (Not Shown)	
115	1001135779	1	Cable, Alternator Positive (Not Shown)	
117	1001141717	1	Fitting, Straight	
120	0761214	3	Bolt M12 x 30	
122	1001142685	1	Bracket	
123	1001165820	1	Pipe, Elbow	
124	1001143390	1	Indicator, Air Filter Service	
125	0760810	2	Bolt M8 x 20	
126	1001144089	1	Grommet	
127	1001145154	1	Plate, Mounting	
128	4640751	1	Valve, Oil Drain	
129	8405006	2	Clamp	
130	8406102	AR	Clip	
131	8406112	1	Clip	
132	1001138717	1	Bracket	
133	1001142501	1	Fitting, 90 Barbed	
134	1001154405	5 ft /2 m	Hose	
135	1001148843	1	Harness, Fuel Filter (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
137	1703162	2	Decal - Fan	
138	0641503	1	Bolt 5/16 x 3/8	
139	1001153387	1	Plate	
140	3931508	2	Capscrew 5/16 x 1/2	
141	1001155823	1	Coupling	
142	0100062	AR	Adhesive, Loctite #680	
143	4240099	AR	Tie-Strap (Not Shown)	
144	8410011	1	Clamp	
145	0700812	1	Bolt M8 x 25	
146	1321289	1	Clamp	
147	3290806	1	Nut M8	
148	0641510	2	Bolt 5/16 x 1-1/4	
149	0641612	2	Bolt 3/8 x 1-1/2	
150	4240032	AR	Tie-Strap (Not Shown)	
151	1001291401	1	Tag, Coolant	

SECTION 3 - ENGINE

FIGURE 3-23. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

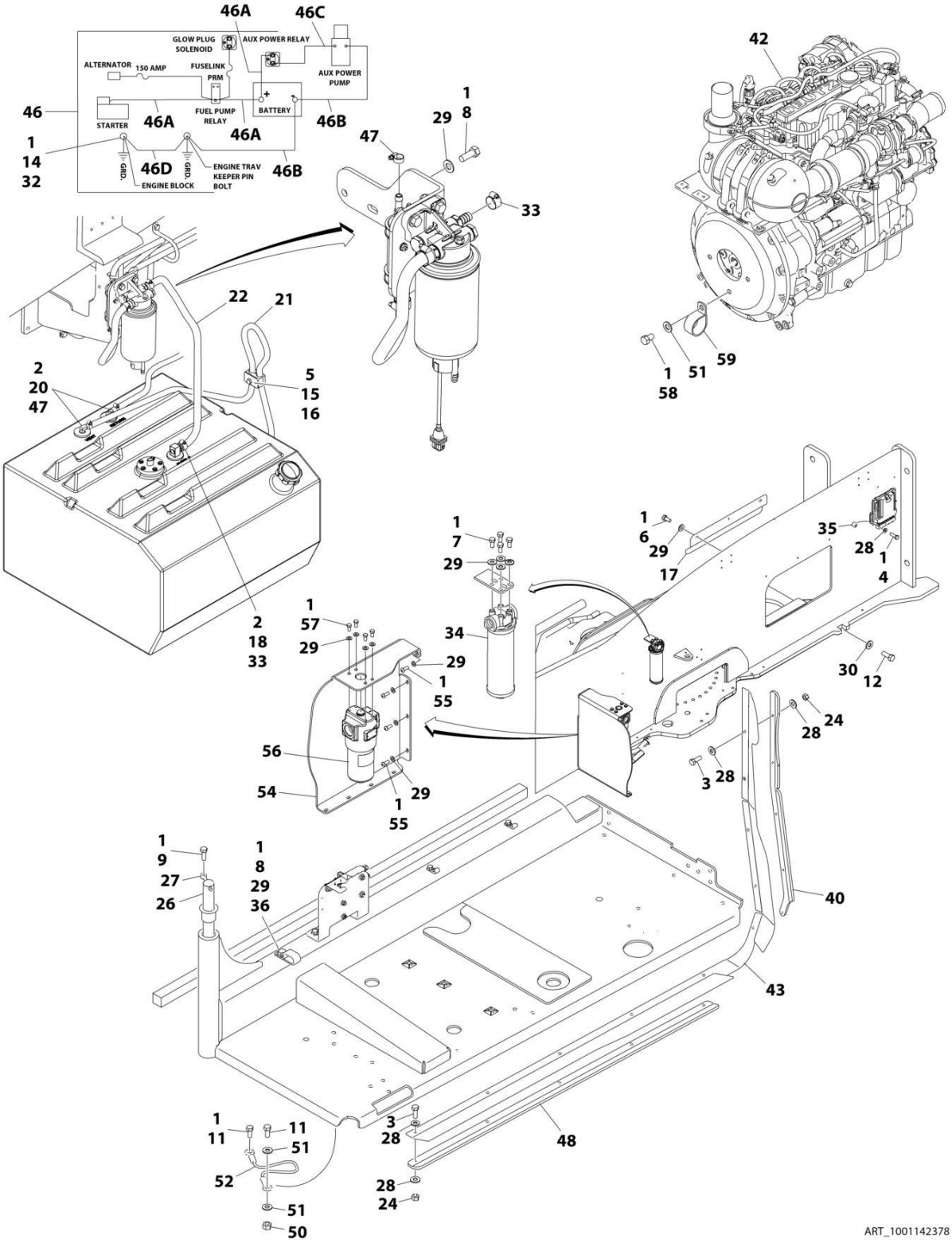


FIGURE 3-23. DEUTZ TCD2.9L4 EMR4 ENGINE INSTALLATION - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142378	Ref	DEUTZ TCD2.9L4 ENGINE INSTALLATION - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)	M
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
11	0641808	AR	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
14	0761210	1	Bolt M12 x 20	
15	1320187	1	Clamp	
16	1320190	1	Cover, Clamp	
17	1671121	1	Cover	
18	2180832	1	Fitting, Barbed	
20	2220313	2	Fitting, 90 Barbed	
21	2750532	5 ft/ 1.5m	Hose	
22	1001154405	1.9 ft/ 0.6m	Hose	
24	3311405	10	Nut 1/4	
26	3422446	1	Pin, Pivot	
27	3841143	1	Pin, Keeper	
28	4711400	24	Washer 1/4	
29	4711600	19	Washer 3/8	
30	4752000	1	Washer 5/8	
32	4812100	1	Washer M12	
33	8405006	2	Clamp	
34	1001108617	1	Hydraulic Pressure Filter Assembly	
34	70002231	1	Element, Filter	
35	1001110425	4	Spacer	
36	1001116792	1	Clamp	
38	1001138491	NLA	Harness, Fuel (Use p/n 1001222665) (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
40	1001145089	1	Clamp	
42	1001141745	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
43	1001145560	1	Panel, Rubber	
46	1001142610	1	Battery Cable Kit	C
46A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
46A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd) and Aux Pump	
46B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
46C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
46C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
47	1320022	3	Clamp	
48	1001145842	1	Plate, Clamping	
50	3311805	1	Nut 1/2	
51	4711800	3	Washer 1/2	
52	1001131542	1	Lanyard	
54	3380723	1	Panel, Noise Reduction	
55	3900316	5	Screw 3/8 x 1	
56	2120218	1	Filter, High Pressure	
56	2120219	1	Element, Filter	
56	70001344	1	O-Ring, Bowl	
56	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
57	0651606	4	Bolt 3/8 x 3/4	
58	0641806	1	Bolt 1/2 x 3/4	
59	90028660	1	Clamp	

FIGURE 3-24. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

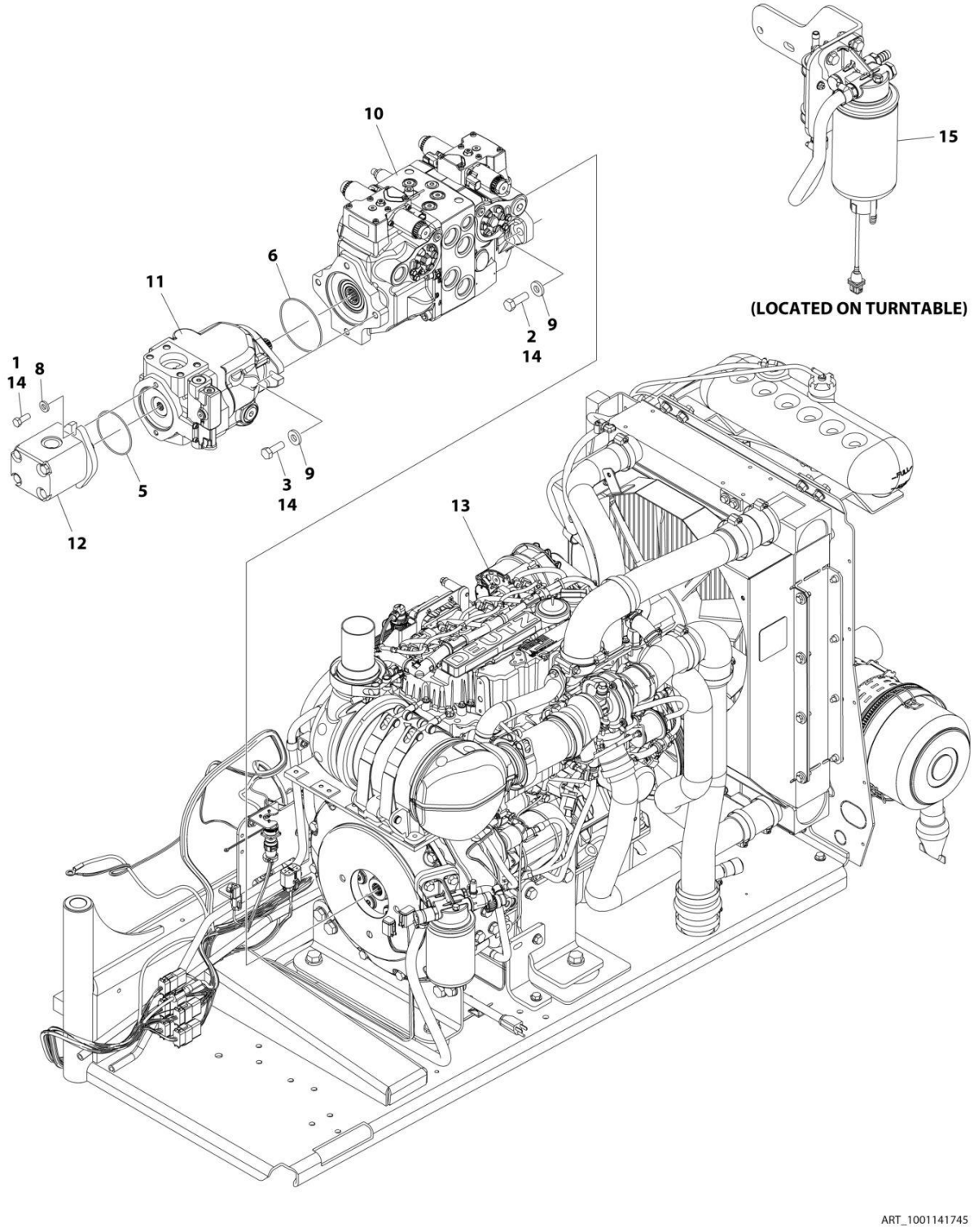


FIGURE 3-24. DEUTZ TCD2.9L4 EMR4 ENGINE SUB-ASSEMBLY - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141745	Ref	DEUTZ TCD2.9L4 ENGINE SUB-ASSEMBLY	AL
1	0641608	2	Bolt 3/8 x 1	
2	0641812	2	Bolt 1/2 x 1-1/2	
2	0641814	2	Bolt 1/2 x 1-3/4	
3	0761215	2	Bolt M12 x 35	
5	3790152	1	O-Ring	
6	3790155	1	O-Ring	
8	4891600	2	Washer 3/8	
9	4891800	4	Washer 1/2	
10	1001108616	1	Pump Assembly - Sauer Tandem (See Separate Breakdown in this Section)	
11	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
12	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
13	1001141746	1	Engine Assembly (See Separate Breakdown in this Section)	
14	0100011	AR	Compound, Locking	
15	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	

FIGURE 3-25. DEUTZ D2.9L4 (EMR4) ENGINE SUB-ASSEMBLY WITH PMP PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

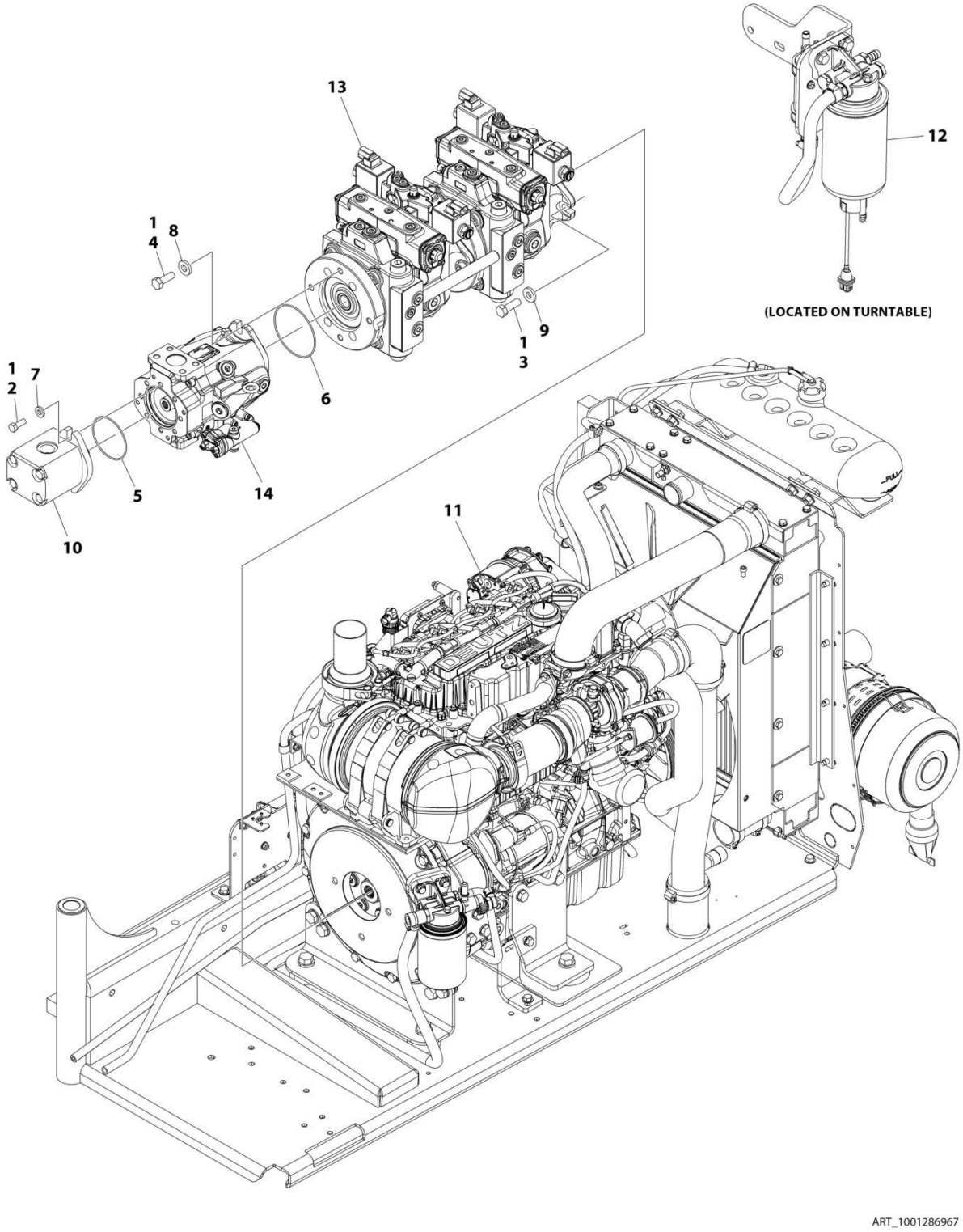


FIGURE 3-25. DEUTZ D2.9L4 (EMR4) ENGINE SUB-ASSEMBLY WITH PMP PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286967	Ref	ENGINE SUB-ASSEMBLY WITH PMP PUMPS AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)	B
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	8310056	2	Washer	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001134392	1	Engine Assembly (See Separate Breakdown in this Section)	
12	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
13	1001286957	1	Pump Assembly - Hydraulic Tandem (See Separate Breakdown in this Section)	
14	1001286958	1	Pump Assembly - Hydraulic Piston (See Separate Breakdown in this Section)	

FIGURE 3-26. DEUTZ D2.9L4 (EMR4) ENGINE SUB-ASSEMBLY WITH PMP PUMP AND STEEL HOODS (WITH COLD WEATHER PLUS PACKAGE)

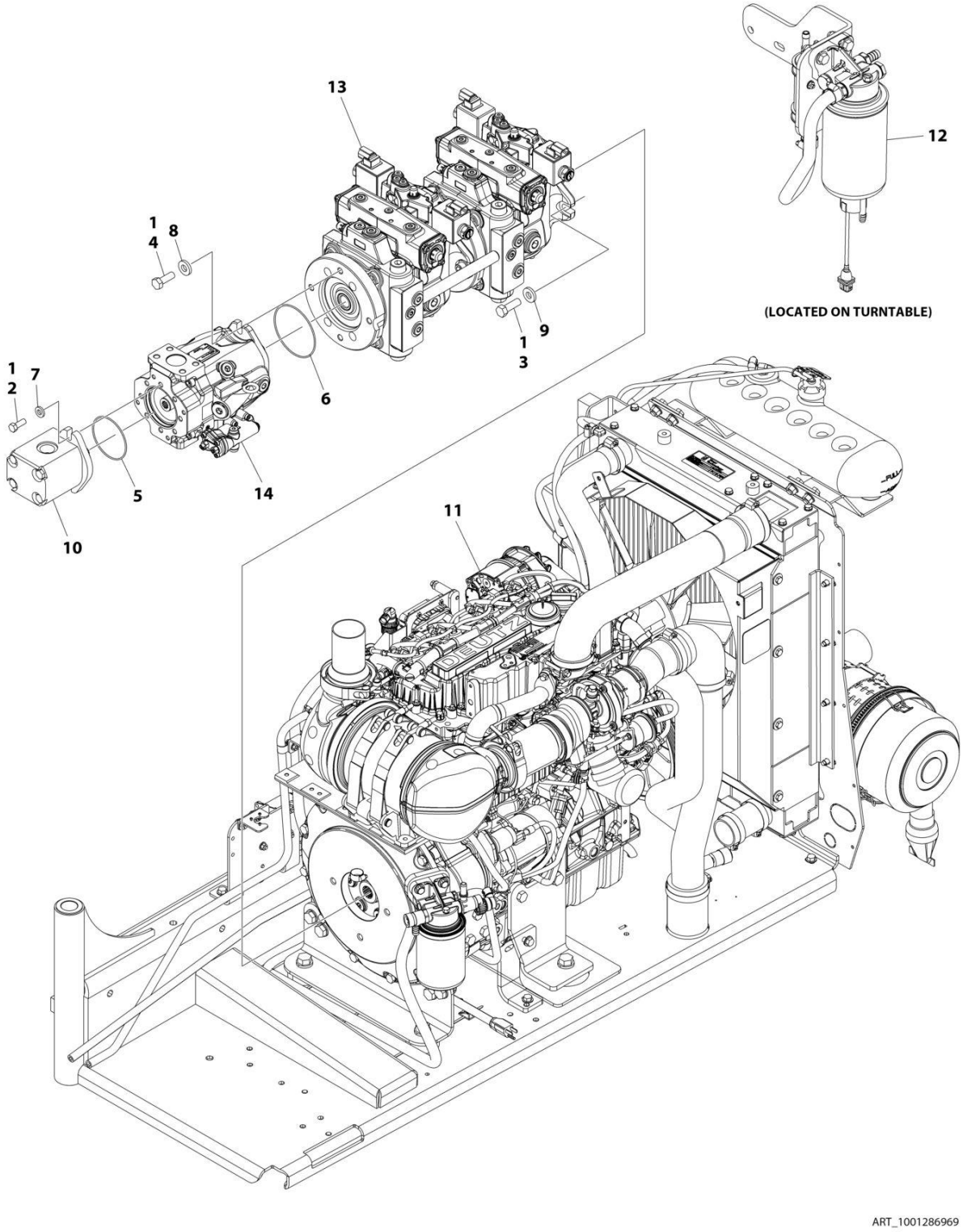
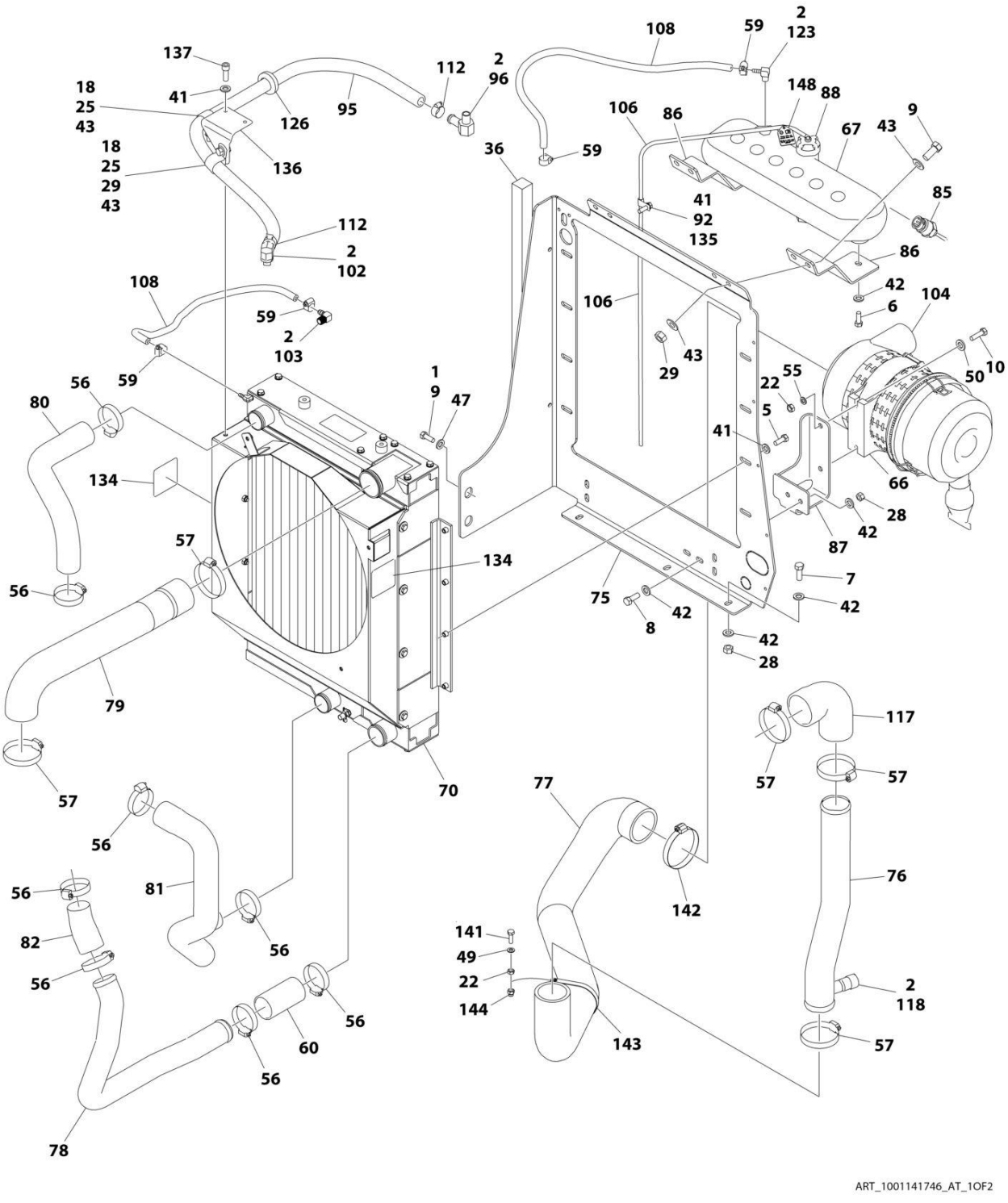


FIGURE 3-26. DEUTZ D2.9L4 (EMR4) ENGINE SUB-ASSEMBLY WITH PMP PUMP AND STEEL HOODS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286969	Ref	ENGINE SUB-ASSEMBLY WITH PMP PUMPS AND STEEL HOODS (WITH COLD WEATHER PLUS PACKAGE)	B
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	8310056	2	Washer	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001141746	1	Engine Assembly (See Separate Breakdown in this Section)	
12	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
13	1001286957	1	Pump Assembly - Hydraulic Tandem (See Separate Breakdown in this Section)	
14	1001286958	1	Pump Assembly - Hydraulic Piston (See Separate Breakdown in this Section)	

FIGURE 3-27. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)



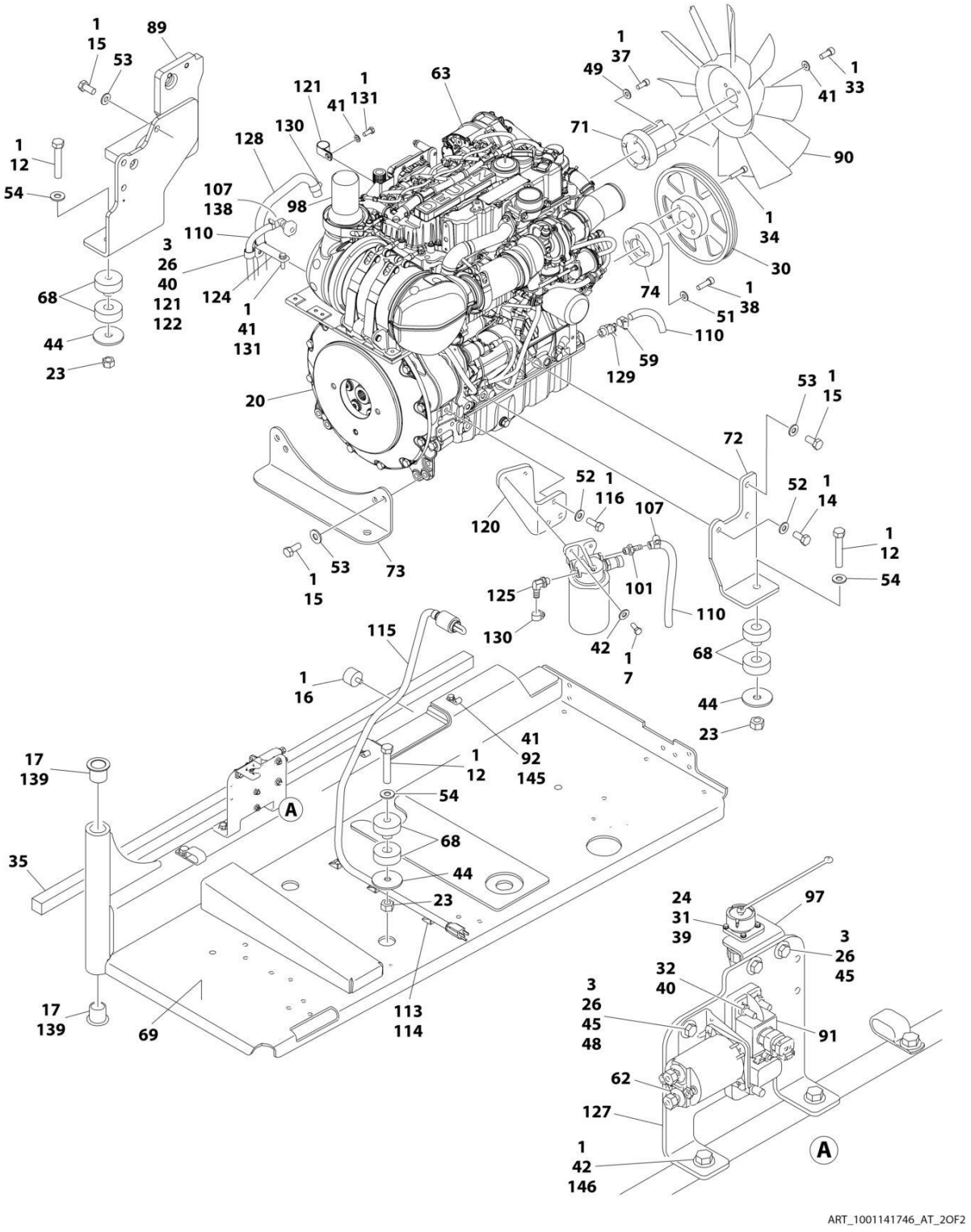

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FIGURE 3-27. DEUTZ TCD2.9L4 EMR4 ENGINE ASSEMBLY - WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141746	Ref	DEUTZ TCD2.9L4 ENGINE ASSEMBLY	AT
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant	
3	0641406	5	Bolt 1/4 x 3/4	
5	0641508	8	Bolt 5/16 x 1	
6	0641606	2	Bolt 3/8 x 3/4	
7	0641608	9	Bolt 3/8 x 1	
8	0641610	2	Bolt 3/8 x 1-1/4	
9	0641708	6	Bolt 7/16 x 1	
10	0700815	2	Bolt M8 x 35	
12	0682028	4	Bolt 5/8 x 3-1/2 Grade 8	
14	0771212	1	Bolt M12 x 25 Grade 10.9	
15	0771414	9	Bolt M14 x 30 Grade 10.9	
16	0940070	1	Bumper	
17	0961986	2	Bushing, Flanged	
18	0641706	2	Bolt 7/16 x 3/4	
20	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
22	3290801	3	Nut M8	
23	3272001	4	Nut 5/8 Grade 8	
24	3310401	3	Nut #4	
25	8406302	2	Clamp	
26	3311405	6	Nut 1/4	
28	3311605	9	Nut 3/8	
29	3311705	5	Nut 7/16	
30	3580320	1	Pulley	
31	3910408	3	Screw #4 x 1/2	
32	3931432	1	Capscrew 1/4 x 2	
33	3931512	4	Capscrew 5/16 x 3/4	
34	3931628	4	Capscrew 3/8 x 1-3/4	
35	3960543	1	Seal	
36	3960544	1	Seal	
37	4031914	4	Bolt M8 x 50	
38	4032014	4	Bolt M10 x 50	
39	4710400	3	Washer #4	
40	4711400	3	Washer 1/4	
41	4711500	19	Washer 5/16	
42	4711600	24	Washer 3/8	
43	4711700	10	Washer 7/16	
44	1001146219	4	Washer Special	
45	4751400	8	Washer 1/4	
47	4751700	2	Washer 7/16	
48	4791400	2	Starwasher 1/4	
49	4811900	5	Washer M8	
50	4811902	2	Washer M8	
51	4812000	4	Washer M10	
52	4812100	4	Washer M12	
53	4812200	9	Washer M14	
54	4892000	4	Washer 5/8	
55	4831900	2	Washer M8	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	8405201	8	Clamp	
57	8405204	5	Clamp	
59	8410013	5	Clamp	
60	91563070	1	Coupling, Rubber	
62	1001117308	1	Relay	
63	1001249964	1	Engine, Deutz TCD2.9L4 (See Separate Breakdown in this Section)	
66	1001133634	1	Clamp	
67	1001166393	1	Tank, Surge	
68	1001155575	4	Mount, Motor	
69	1001191272	1	Tray	
70	1001256864	1	Radiator	
71	1001135138	1	Spacer, Fan	
72	1001135560	1	Support, Engine	
73	1001135562	1	Support, Engine - Rear	
74	1001135679	1	Spacer, Pulley	
75	1001135680	1	Support, Radiator	
76	1001135901	1	Pipe, Air Intake	
77	1001264917	1	Hose, Air Intake	
78	1001135913	1	Pipe, Turbo to Air Cleaner	
79	1001264982	1	Hose, Air Cleaner to Intake	
80	1001135924	1	Hose, Radiator (Upper)	
81	1001135926	1	Hose, Radiator (Lower)	
82	1001135943	1	Coupling, Rubber	
85	1001138827	1	Sensor, Coolant Level	
86	1001136626	2	Bracket	
87	1001136665	1	Bracket	
88	1001136834	1	Cap, Tank	
89	1001283008	1	Support, Engine	
90	1001137276	1	Fan	
91	1001138228	1	Module, Power	
91	70023592	1	Fuse 20Amp (Switched Output)	
91	70023593	1	Fuse 30Amp (Battery Output)	
92	1001138253	5	Clamp	
94	1001138346	1	Harness, Engine (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
95	1001138524	1	Hose	
96	1001138559	1	Fitting, 90	
97	1001139240	1	Bracket	
98	1001153024	1	Pipe, Exhaust	
100	1001141304	1	Wire, Glow Plug (Not Shown)	
101	1001141717	1	Fitting, Straight	
102	1001141719	1	Fitting, 90 Barbed	
103	1001140564	1	Fitting, 90 Barbed	
104	1001133633	1	Air Cleaner Assembly	
104	70024190	1	Element, Air Filter	
105	1001135779	1	Cable, Alternator Positive (Not Shown)	
106	1001138248	4 ft /1.2 m	Tubing	
107	1320022	2	Clamp	
108	2720015	5 ft /2 m	Hose	
110	1001165035	31 ft /10 m	Hose	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
112	8405007	2	Clamp	
113	4240099	AR	Tie-Strap (Used to Secure Block Heater Cord)	
114	4460234	3	Mount, Wire Tie (Used to Secure Block Heater Cord)	
115	1001140312	1	Heater, Block	
116	0761214	3	Bolt M12 x 30	
117	1001165820	1	Pipe, Elbow	
118	1001143390	1	Indicator, Air Filter Service	
120	1001142685	1	Bracket	
121	8406102	AR	Clip	
122	8406112	1	Clip	
123	1001134488	1	Fitting, 90 Barbed	
124	1001138717	1	Bracket	
125	1001142501	1	Fitting, 90 Barbed	
126	1001144089	1	Grommet	
127	1001145154	1	Plate, Mounting	
128	1001154405	5 ft /2 m	Hose	
129	4640751	1	Valve, Oil Drain	
130	8405006	2	Clamp	
131	0760810	AR	Bolt M8 x 20	
132	1001148843	1	Harness, Fuel Filter (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
134	1703162	2	Decal - Fan	
135	0641503	1	Bolt 5/16 x 3/8	
136	1001153387	1	Plate	
137	3931508	2	Capscrew 5/16 x 1/2	
138	1001155823	1	Coupling	
139	0100062	AR	Adhesive, Loctite #680	
140	1001181895	AR	Adhesive, Loctite #640 (Not Shown - Apply to Block Heater)	
141	0700812	1	Bolt M8 x 25	
142	8410011	1	Clamp	
143	1321289	1	Clamp	
144	3290806	1	Nut M8	
145	0641510	2	Bolt 5/16 x 1-1/4	
146	0641612	2	Bolt 3/8 x 1-1/2	
147	4240032	AR	Tie-Strap (Not Shown)	
148	1001291401	1	Tag, Coolant	

FIGURE 3-28. DEUTZ TCD2.9L4 EMR4 ENGINE COMPONENTS

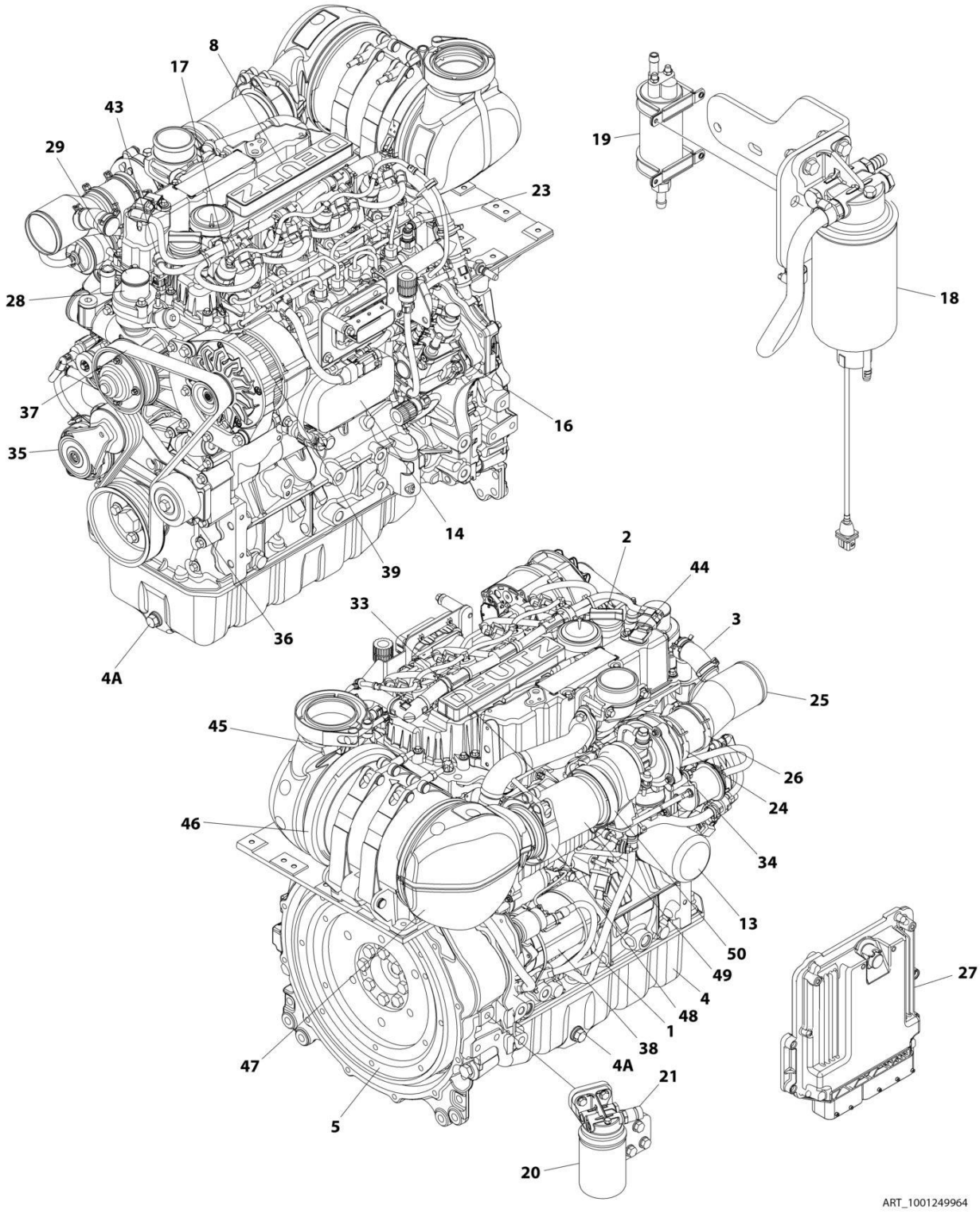


FIGURE 3-28. DEUTZ TCD2.9L4 EMR4 ENGINE COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001249964	Ref	DEUTZ TCD2.9L4 ENGINE COMPONENTS	A
1	70024904	1	Dipstick	
1	70024905	1	O-Ring	
2	7020465	2	Cap, Filler	
3	7002511	2	Clamp	
4		Ref	Pan, Oil	
4A	70005941	2	Plug	
4A	70005942	2	Washer, Sealing	
5	70001870	1	Flywheel	
5	7024579	1	Gear, Ring	
6	70024906	1	Gasket, Head (Not Shown)	
8	70005921	1	Cover, Valve	
8	70005171	1	Gasket	
8	70025205	1	Gasket, Small Valve Cover	
10	70004280	1	Seal, Shaft - Front (Not Shown)	
11	70002718	1	Seal, Shaft - Rear (Not Shown)	
12	70005172	1	Pump, Oil Lube (Not Shown)	
12	70025135	1	O-Ring	
12	70025136	1	Gasket	
13	7016331	1	Filter, Oil	
13	70025137	1	Bushing	
14	70024494	1	Cooler, Engine Oil	
14	70024925	1	Gasket	
16	70024924	1	Pump, Fuel	
16	70025152	1	O-Ring	
16	70004505	1	Valve, Overflow	
16	70004506	1	O-Ring	
16	70004507	1	O-Ring	
16	70004508	1	Valve Volume Control	
16	70004509	1	O-Ring	
16	70004510	1	Gasket	
17	70025181	4	Injector, Fuel	
17	70025140	4	Washer, Sealing	
17	70025146	4	Clamp (Top of Injector)	
17	70025145	4	O-Ring	
17	70025154	4	Shoe, Clamping	
17	70000345	1	Plug, Glow (Not Shown)	
18	70024961	1	Fuel Filter Assembly	
18	1001225430	1	Filter, Fuel	
18	70024513	1	Cable, Sensor	
18	70025239	1	Ring, Sealing	
19	70006144	1	Pump, Fuel	
19	70025144	2	Clamp	
20	70029451	1	Filter with Head	
20	1001225431	1	Filter, Fuel	
21	70024919	1	Sensor, Pressure	
21	70024920	1	O-Ring	
22	70025151	1	Rail, Fuel (Not Shown)	
22	70025235	1	Repair Kit (Not Shown)	
23	70025182	1	Fuel Line - High Pressure (Cylinder 1 & 2)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	70025183	1	Fuel Line - High Pressure (Cylinder 3 & 4)	
23	70025184	1	Fuel Line - High Pressure (Supply)	
24	70004501	1	Sleeve, Rubber	
25	70004502	1	Pipe, Intake	
25	70005926	1	Pipe, Elbow	
26	70025112	2	Clamp	
27	70025210	1	ECU (Engine Control Unit)	
28	70029797	1	Pump, Water	
28	70025200	1	Ring, Sealing	
28	70007325	1	Gasket	
28	7020492	2	Ring, Sealing (Plug)	
29	70005929	1	Thermostat	
29	70025184	1	O-Ring (Thermostat to Cover)	
29	70005931	1	Gasket (Thermostat to Pump)	
29	70025142	1	Cover, Thermostat	
31	70007326	1	Valve, Shuttle (EGR) (Not Shown)	
31	70007327	1	Gasket	
33	70004282	1	Manifold, Exhaust	
33	70025164	1	Gasket, Exhaust Manifold to Head	
33	70029557	1	Gasket, Exhaust Manifold to Pipe	
34	70007328	1	Turbocharger	
34	70024912	1	Gasket, Exhaust Manifold	
35	70028699	1	Tensioner, Belt	
36		Ref	Idler Roller	
37	70004277	1	Belt, Drive	
38	70024915	1	Starter	
38	70005647	1	Switch, Solenoid	
38	70005648	1	Relay	
39	70029401	1	Generator	
39	70006653	1	Regulator, Voltage	
40	70007329	1	Harness, Engine (Not Shown)	
41	70024504	1	Sensor, Pressure (Not Shown - Located Top Rear)	
41	70024920	1	O-Ring	
42	70026210	2	Sensor, Speed (Not Shown - Located Left Side Front and Flywheel Housing)	
42	70024917	2	O-Ring	
43	70028540	1	Sender, Temperature	
44	70024507	1	Sensor, Pressure	
44	70025120	1	O-Ring	
45	70007331	1	Outlet, Muffler	
46	70029517	1	Clip	
46	70029520	1	Gasket	
47	70007330	1	Inlet	
48	70025877	1	Clip	
48	70025788	1	Nut	
48	70025242	1	Gasket	
49	70004504	1	Compensator	
50	70005527	1	Clip	
50	70029433	1	Clip	
50	70025242	1	Gasket	

FIGURE 3-29. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH REXROTH PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

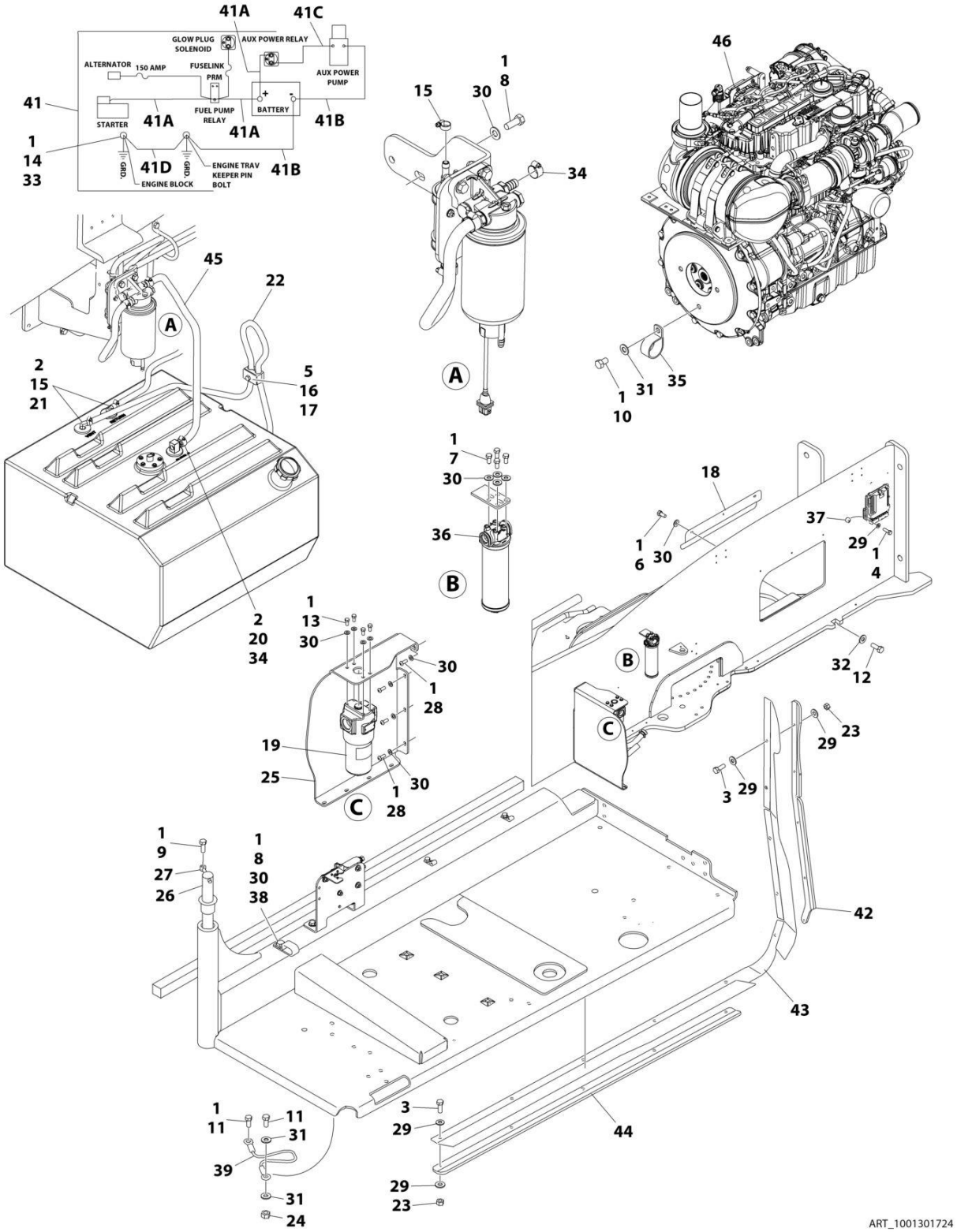


FIGURE 3-29. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH REXROTH PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301724	Ref	ENGINE INSTALLATION EMR5 WITH REXROTH PUMPS WITHOUT COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	7	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.6 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	23	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
38	1321716	5	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	1001142610	1	Battery Cable Kit	
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.6 m	Hose	
46	1001301713	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
47	4240018	AR	Tie-Strap (Not Shown)	
48	4460234	AR	Mount, Terminal (Not Shown)	

FIGURE 3-30. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH REXROTH PUMPS (WITH COLD WEATHER PLUS PACKAGE)

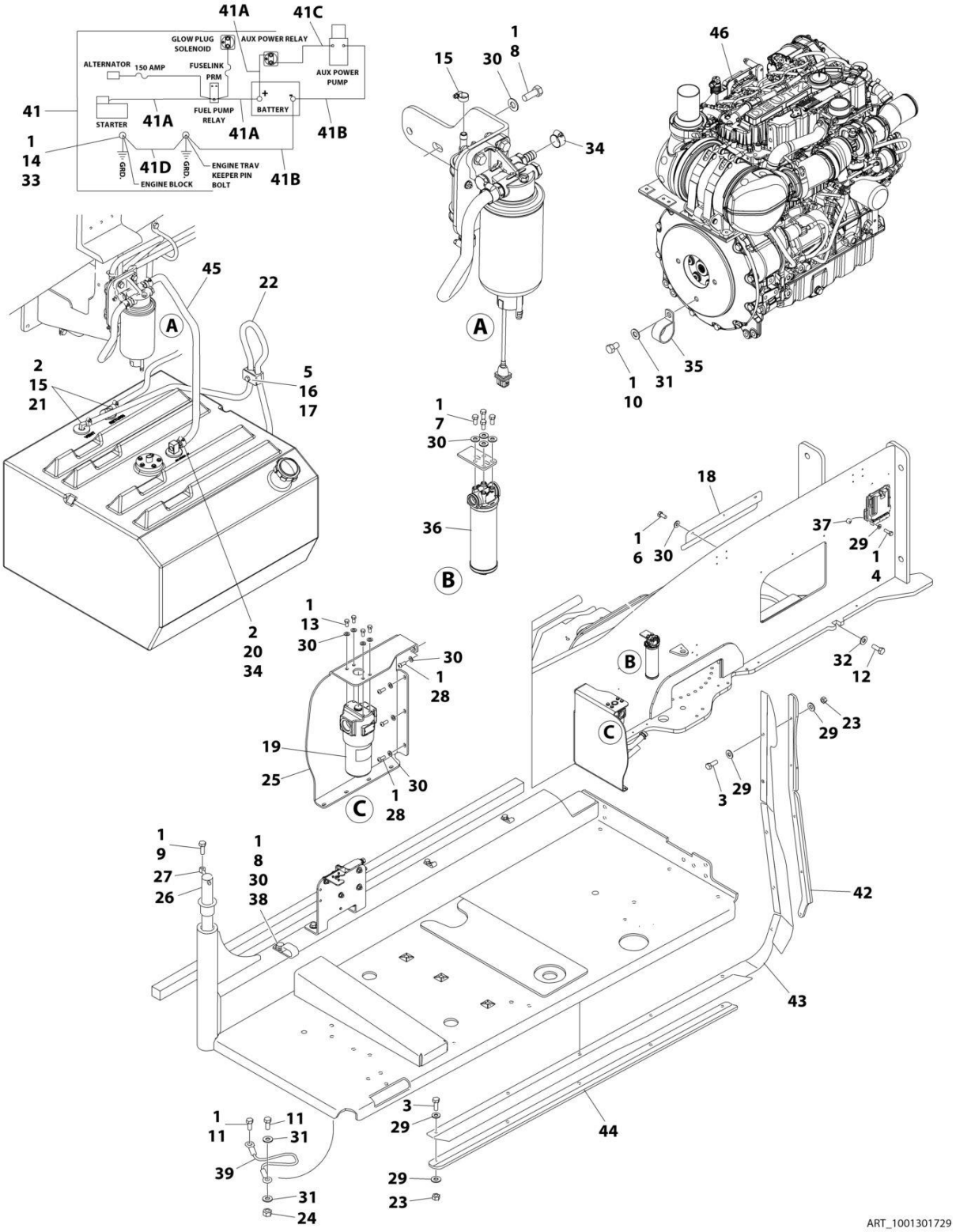


FIGURE 3-30. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH REXROTH PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301729	Ref	ENGINE INSTALLATION EMR5 WITH REXROTH PUMPS WITH COLD WEATHER PLUS PACKAGE	A
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.6 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	19	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
41	1001142610	1	Battery Cable Kit	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.6 m	Hose	
46	1001301672	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	

FIGURE 3-31. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)

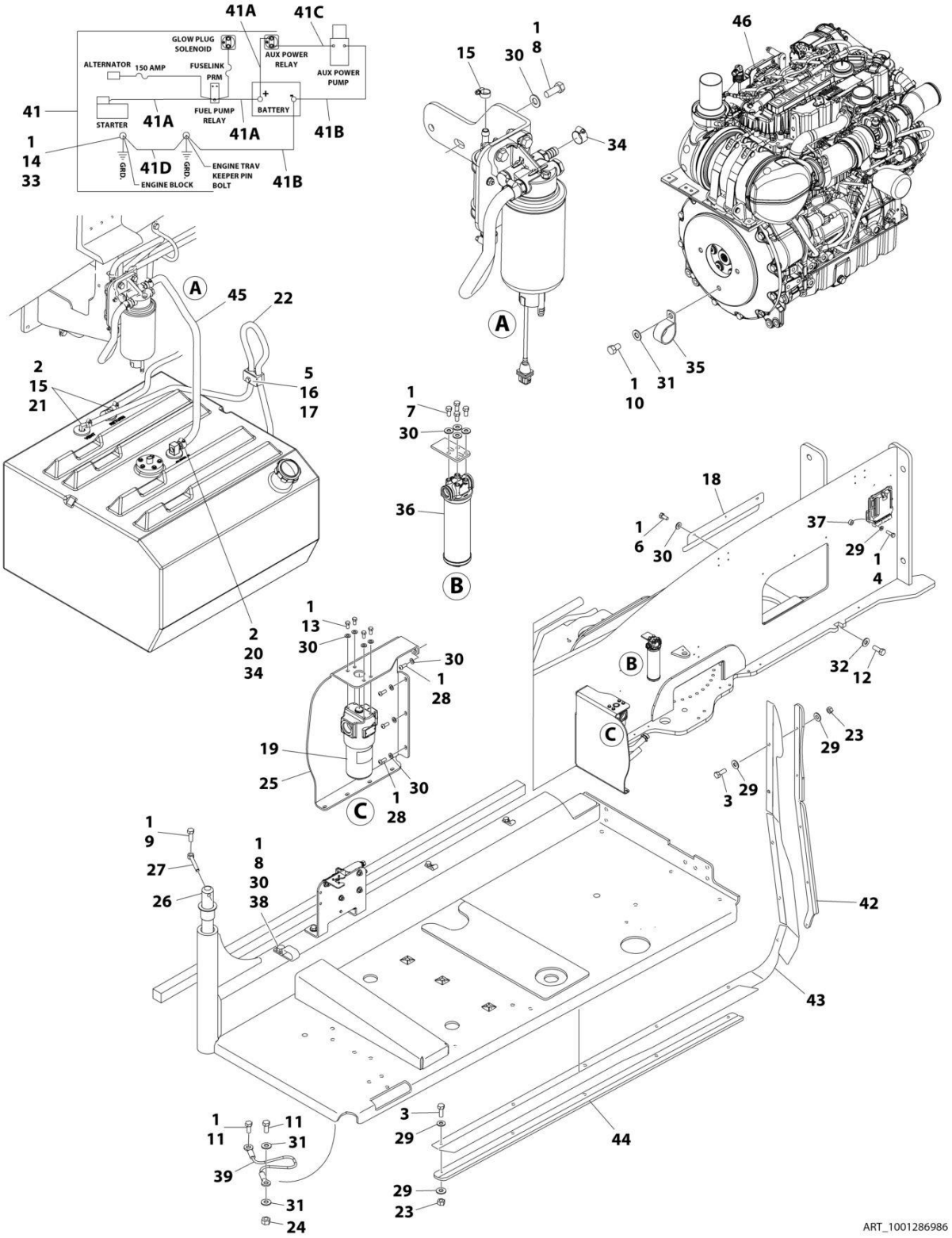


FIGURE 3-31. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286986	Ref	ENGINE INSTALLATION EMR5 WITH PMP PUMPS WITH COLD WEATHER PLUS PACKAGE	A
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.5 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	19	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
41	1001142610	1	Battery Cable Kit	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.5 m	Hose	
46	1001286969	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	

FIGURE 3-32. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

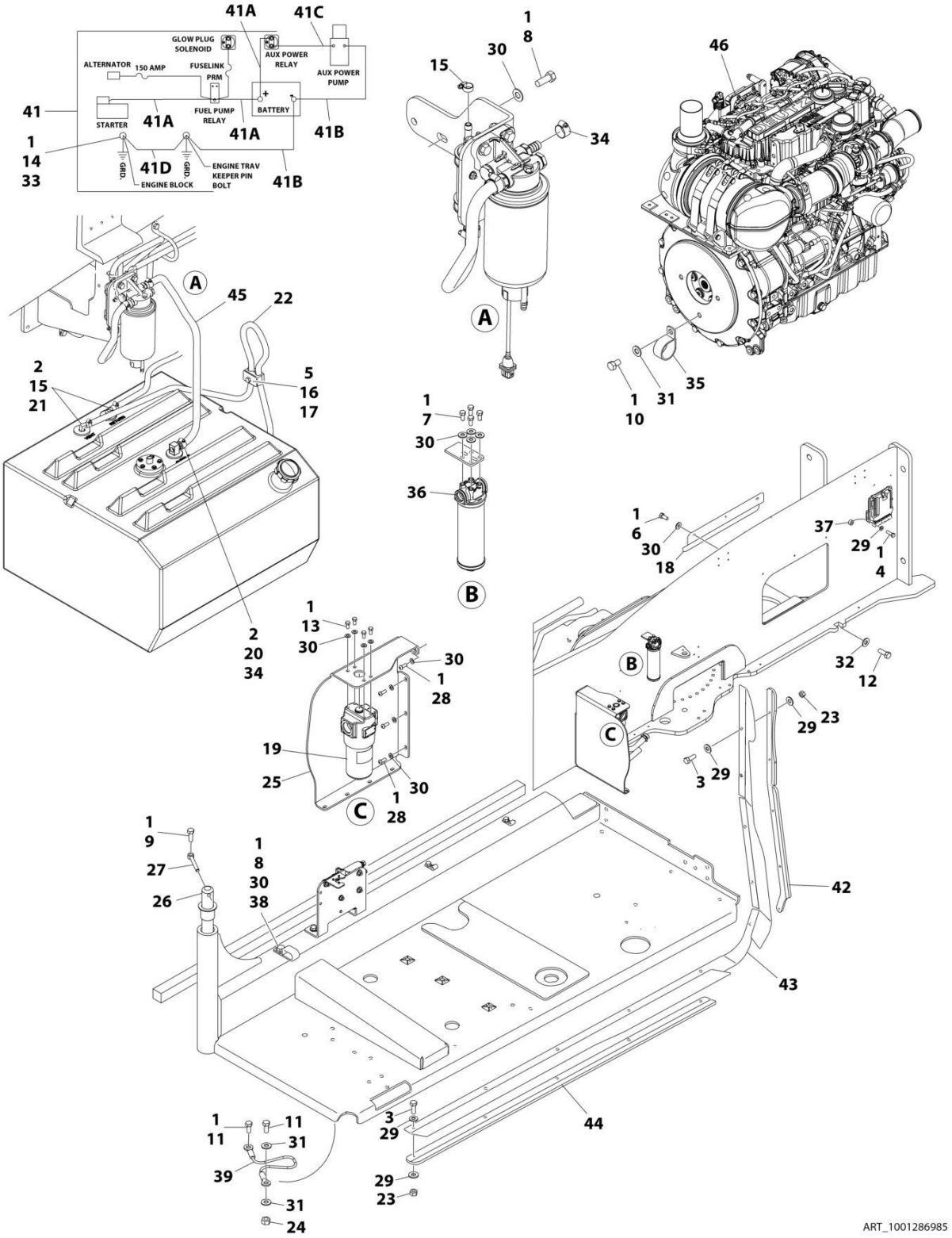


FIGURE 3-32. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286985	Ref	ENGINE INSTALLATION EMR5 WITH PMP PUMPS WITHOUT COLD WEATHER PLUS PACKAGE	A
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	3	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.5 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	19	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
41	1001142610	1	Battery Cable Kit	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.5 m	Hose	
46	1001286967	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	

FIGURE 3-33. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

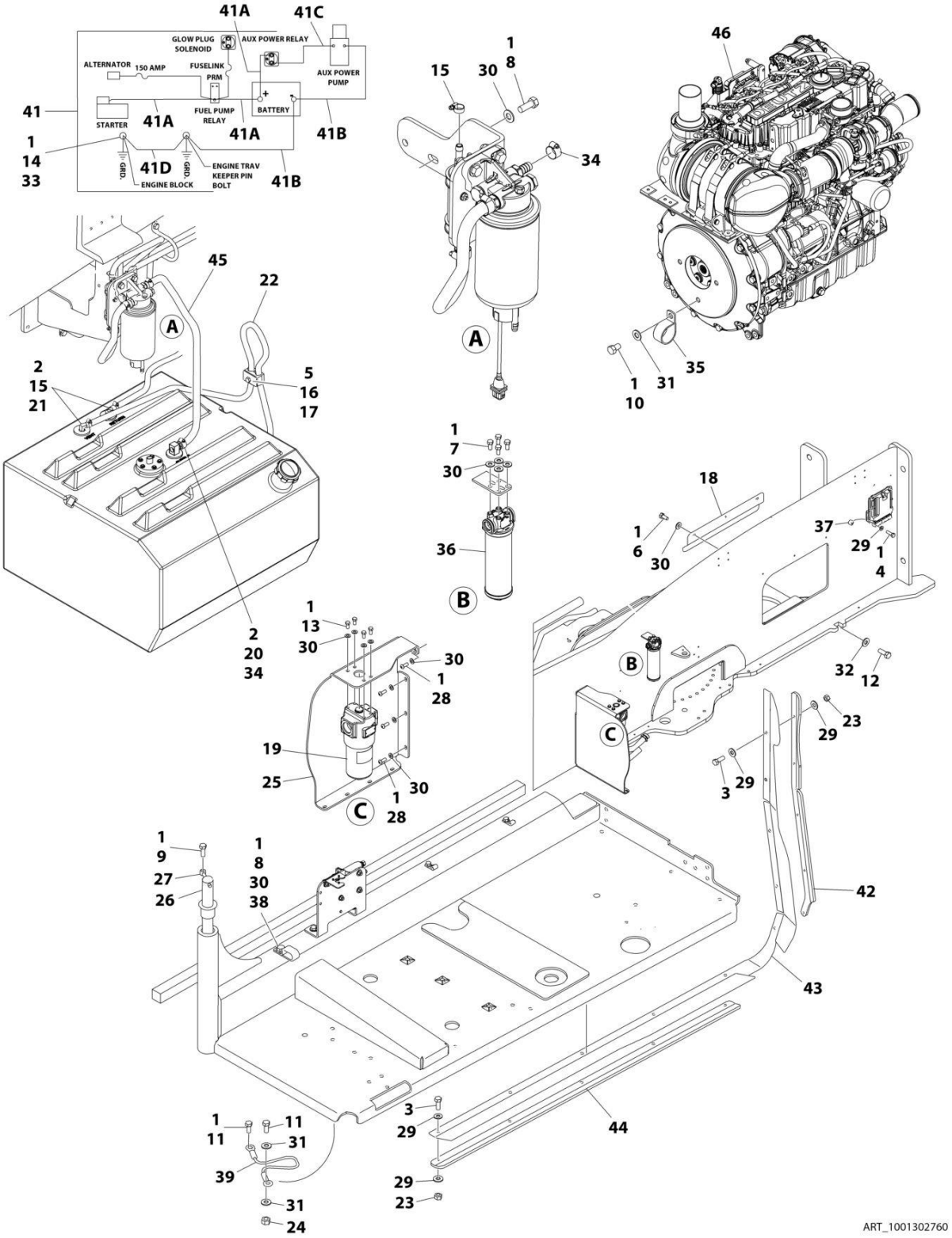


FIGURE 3-33. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001302760	Ref	ENGINE INSTALLATION EMR5 WITH SAUER PUMPS WITHOUT COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	7	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.6 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	23	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
38	1321716	5	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	1001142610	1	Battery Cable Kit	
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.6 m	Hose	
46	1001302756	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
47	4240018	AR	Tie-Strap (Not Shown)	
48	4460234	AR	Mount, Terminal (Not Shown)	

FIGURE 3-34. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

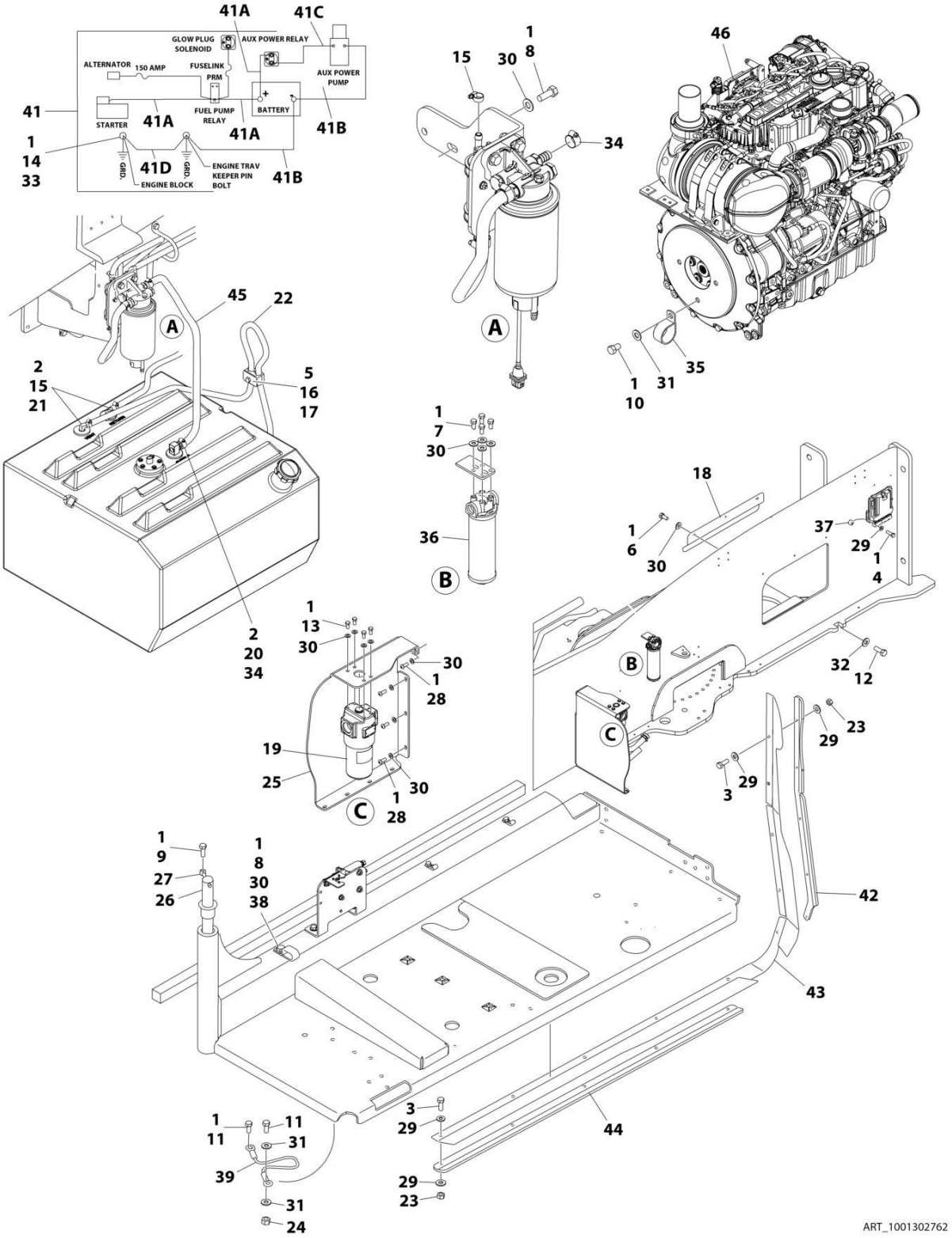


FIGURE 3-34. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001302762	Ref	ENGINE INSTALLATION EMR5 WITH SAUER PUMPS WITH COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	7	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.6 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	23	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
38	1321716	5	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
41	1001142610	1	Battery Cable Kit	
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.6 m	Hose	
46	1001302757	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
47	4240018	AR	Tie-Strap (Not Shown)	
48	4460234	AR	Mount, Terminal (Not Shown)	

FIGURE 3-35. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

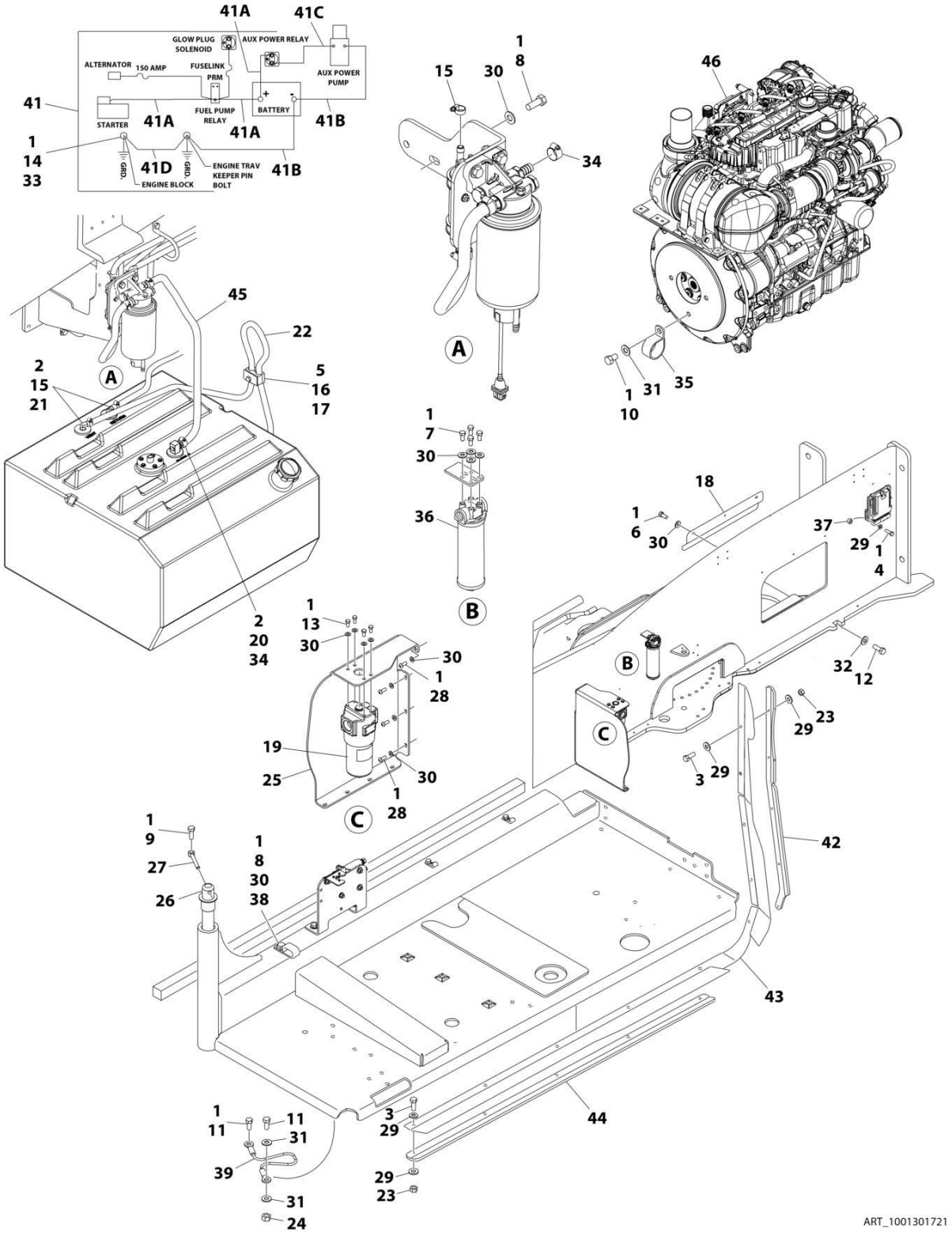


FIGURE 3-35. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301721	Ref	ENGINE INSTALLATION EMR5 WITH PMP PUMPS WITHOUT COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	7	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.6 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	23	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
38	1321716	5	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	1001142610	1	Battery Cable Kit	
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.6 m	Hose	
46	1001301710	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
47	4240018	AR	Tie-Strap (Not Shown)	
48	4460234	AR	Mount, Terminal (Not Shown)	

FIGURE 3-36. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)

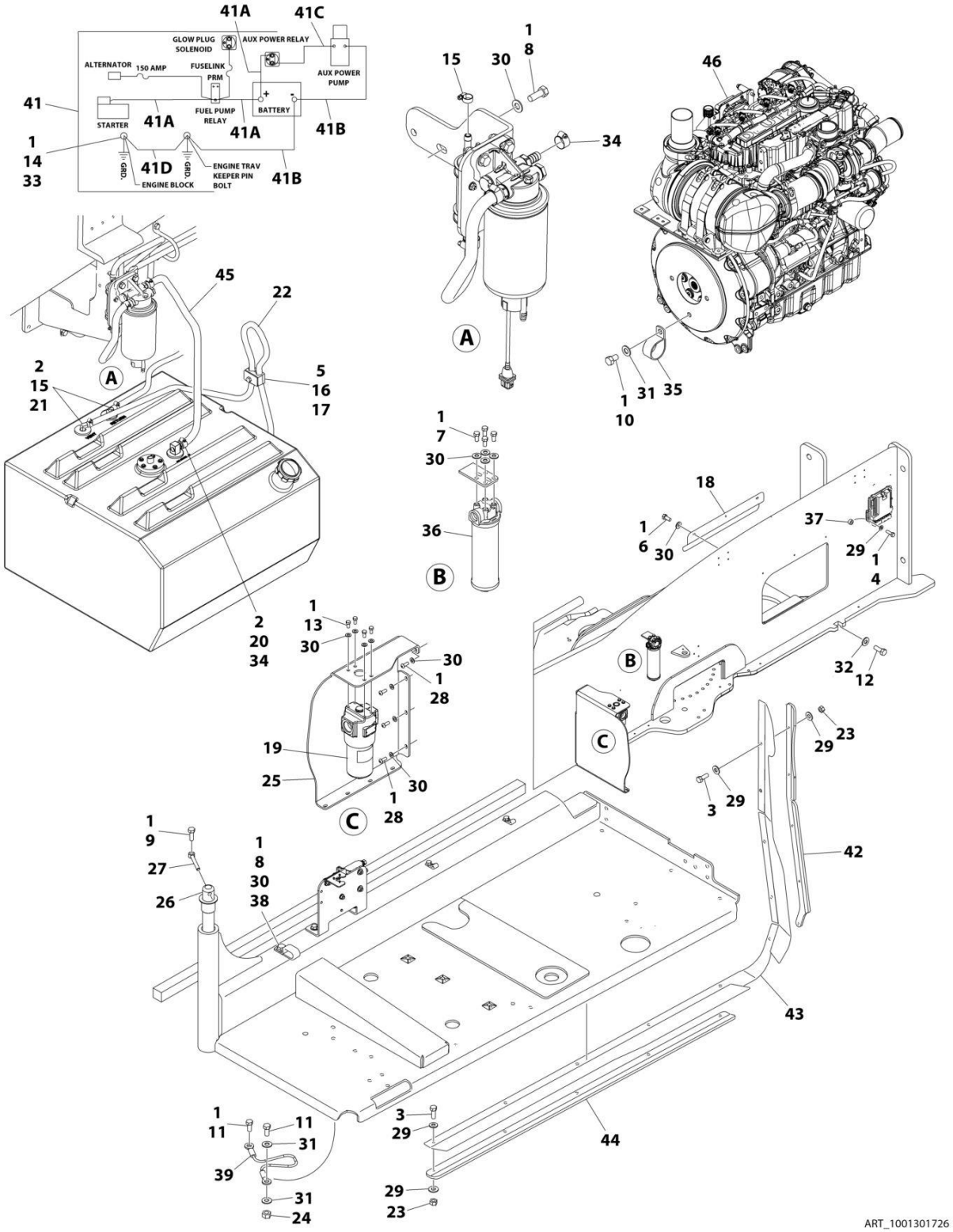


FIGURE 3-36. DEUTZ D2.9L4 - EMR5 ENGINE INSTALLATION WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301726	Ref	ENGINE INSTALLATION EMR5 WITH PMP PUMPS WITH COLD WEATHER PLUS PACKAGE	B
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	10	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	7	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1671121	1	Cover	
19	2120218	1	Filter, High Pressure	
19	2120219	1	Element, Filter	
19	70001344	1	O-Ring	
19	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
20	2180832	1	Fitting, Barbed	
21	2220313	2	Fitting, 90 NPTF/Barbed	
22	2750532	5 ft /1.6 m	Hose	
23	3311405	10	Nut 1/4	
24	3311805	1	Nut 1/2	
25	3380723	1	Panel	
26	3422446	1	Pin	
27	3841143	1	Keeper, Pin	
28	3900316	5	Screw 3/8 x 1	
29	4711400	24	Washer 1/4	
30	4711600	23	Washer 3/8	
31	4711800	3	Washer 1/2	
32	4752000	1	Washer 5/8	
33	4812100	1	Washer M12	
34	8405006	2	Clamp	
35	90028660	1	Clamp	
36	1001108617	1	Filter	
36	70002231	1	Element, Filter	
37	1001110425	4	Spacer	
38	1001116792	1	Clamp	
38	1321716	1	Clamp	
39	1001131542	1	Lanyard	
40	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	1001142610	1	Battery Cable Kit	
41A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
41A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
41B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
41C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
41C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
41D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
42	1001145089	1	Clamp	
43	1001145560	1	Panel	
44	1001145842	1	Plate	
45	1001154405	2 ft /0.6 m	Hose	
46	1001301654	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
47	4240018	AR	Tie-Strap (Not Shown)	
48	4460234	AR	Mount, Terminal (Not Shown)	

FIGURE 3-37. DEUTZ D2.9L4 - (STAGE V) ENGINE INSTALLATION WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

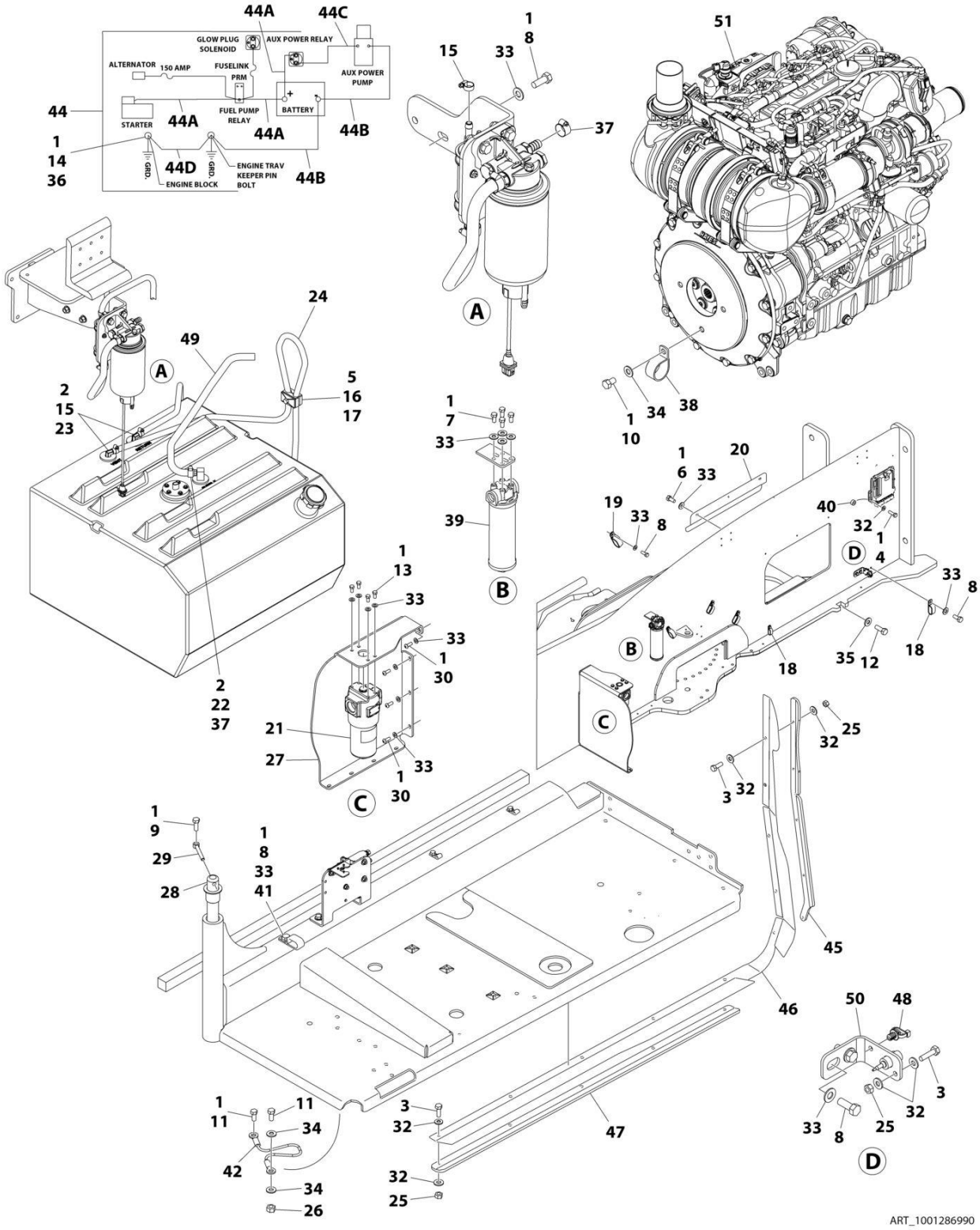


FIGURE 3-37. DEUTZ D2.9L4 - (STAGE V) ENGINE INSTALLATION WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286990	Ref	ENGINE INSTALLATION (STAGE V) WITH PMP PUMPS WITHOUT COLD WEATHER PLUS PACKAGE	A
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	11	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	10	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1321283	2	Clamp	
19	1321716	3	Clamp	
20	1671121	1	Cover	
21	2120218	1	Filter, High Pressure	
21	2120219	1	Element, Filter	
21	70001344	1	O-Ring	
21	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
22	2180832	1	Fitting, Barbed	
23	2220313	2	Fitting, 90 NPTF/Barbed	
24	2750532	5 ft/1.5 m	Hose	
25	3311405	11	Nut 1/4	
26	3311805	1	Nut 1/2	
27	3380723	1	Panel	
28	3422446	1	Pin	
29	3841143	1	Keeper, Pin	
30	3900316	5	Screw 3/8 x 1	
31	4240099	AR	Tie-Strap (Not Shown)	
32	4711400	26	Washer 1/4	
33	4711600	26	Washer 3/8	
34	4711800	3	Washer 1/2	
35	4752000	1	Washer 5/8	
36	4812100	1	Washer M12	
37	8405006	2	Clamp	
38	90028660	1	Clamp	
39	1001108617	1	Filter	
39	70002231	1	Element, Filter	
40	1001110425	4	Spacer	
41	1001116792	1	Clamp	
42	1001131542	1	Lanyard	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	1001138491	1	Harness, Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
44	1001142610	1	Battery Cable Kit	
44A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
44A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
44B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd and Aux Pump)	
44B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
44C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
44C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
44D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
45	1001145089	1	Clamp	
46	1001145560	1	Panel	
47	1001145842	1	Plate	
48	1001146588	1	Tie-Strap (Not Shown)	
49	1001154405	2 ft/0.5 m	Hose	
50	1001256879	1	Bracket	
51	1001286982	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	

FIGURE 3-38. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH REXROTH PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

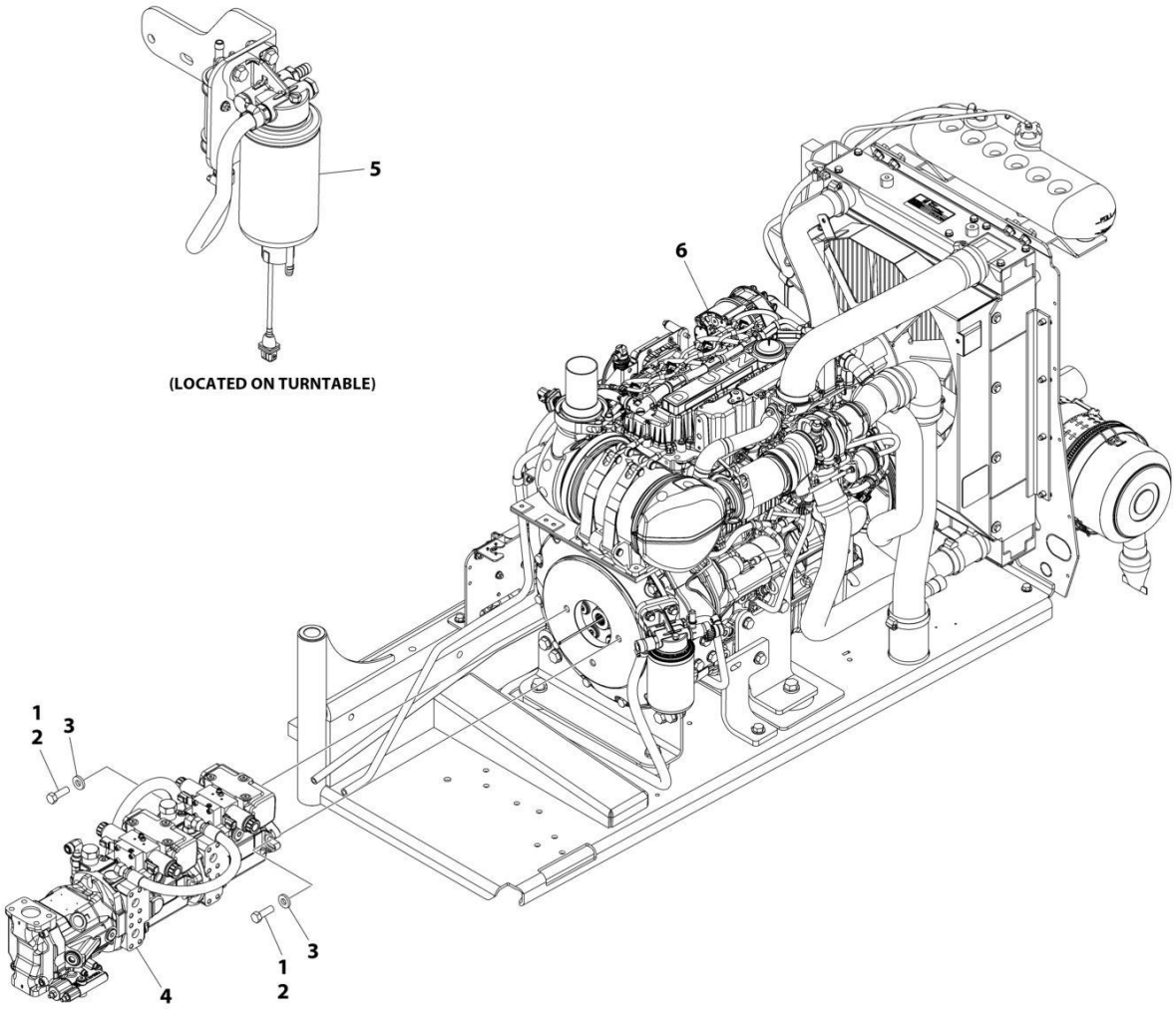


FIGURE 3-38. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH REXROTH PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301713	Ref	ENGINE SUB-ASSEMBLY EMR5 WITH REXROTH PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)	B
1	0100011	AR	Compound, Locking	
2	0641814	2	Bolt 1/2 x 1-3/4	
3	4891800	2	Washer 1/2	
4	1001152963	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
5	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
6	1001301546	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-39. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH REXROTH PUMPS (WITH COLD WEATHER PLUS PACKAGE)

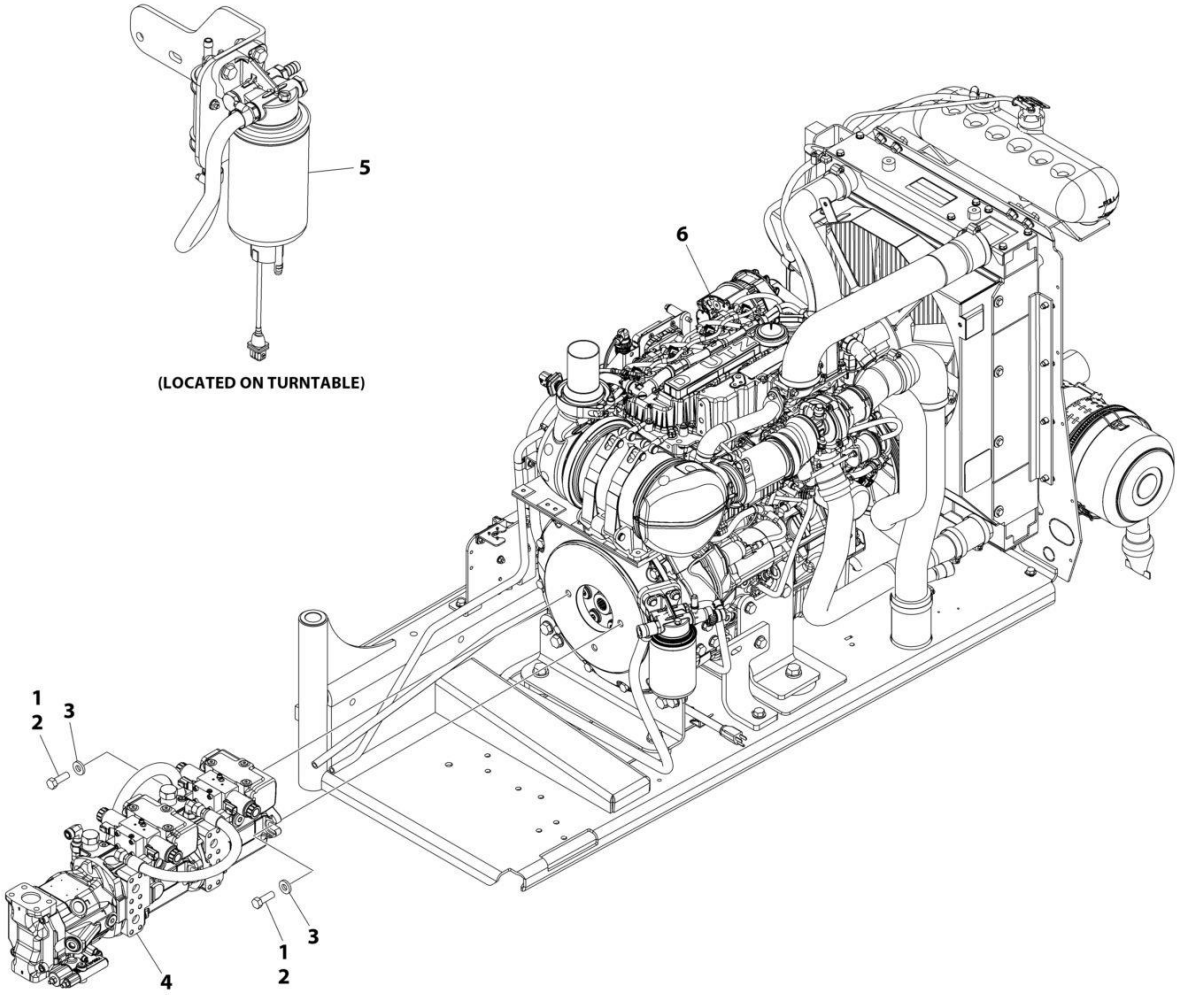


FIGURE 3-39. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH REXROTH PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301672	Ref	ENGINE SUB-ASSEMBLY EMR5 WITH REXROTH PUMPS (WITH COLD WEATHER PLUS PACKAGE)	B
1	0100011	AR	Compound, Locking	
2	0641814	2	Bolt 1/2 x 1-3/4	
3	4740171	2	Washer	
4	1001152963	1	Pump Assembly - Rexroth (See Separate Breakdown in this Section)	
5	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
6	1001301590	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-40. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

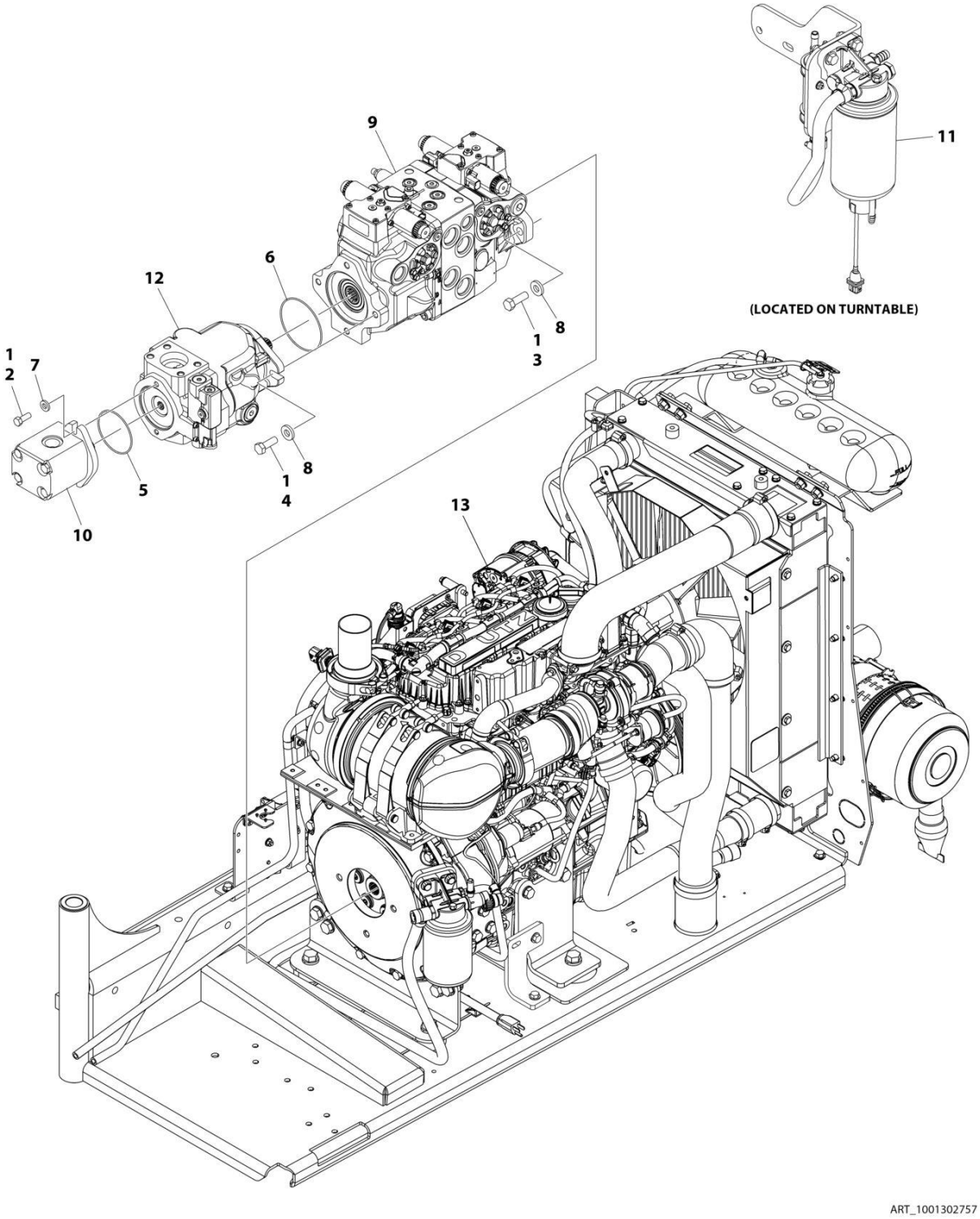


FIGURE 3-40. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001302757	Ref	ENGINE SUB-ASSEMBLY EMR5 WITH SAUER PUMPS (WITH COLD WEATHER PLUS PACKAGE)	B
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	4	Washer 1/2	
9	1001108616	1	Pump Assembly - Sauer Tandem (See Separate Breakdown in this Section)	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
12	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
13	1001301590	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-41. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

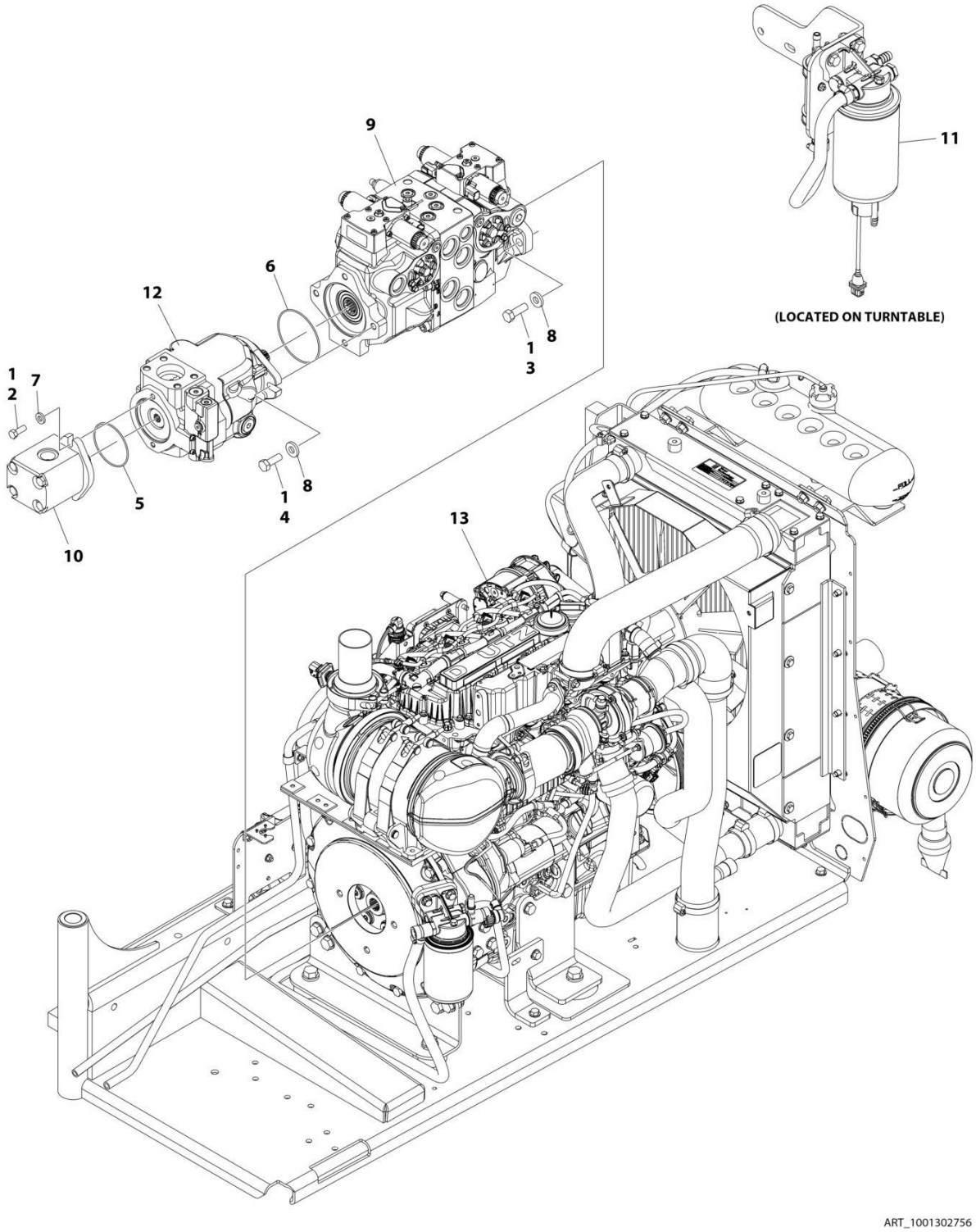


FIGURE 3-41. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001302756	Ref	ENGINE SUB-ASSEMBLY EMR5 WITH SAUER PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)	B
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	4	Washer 1/2	
9	1001108616	1	Pump Assembly - Sauer Tandem (See Separate Breakdown in this Section)	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
12	1001171095	1	Pump Assembly - Sauer Piston (See Separate Breakdown in this Section)	
13	1001301546	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-42. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

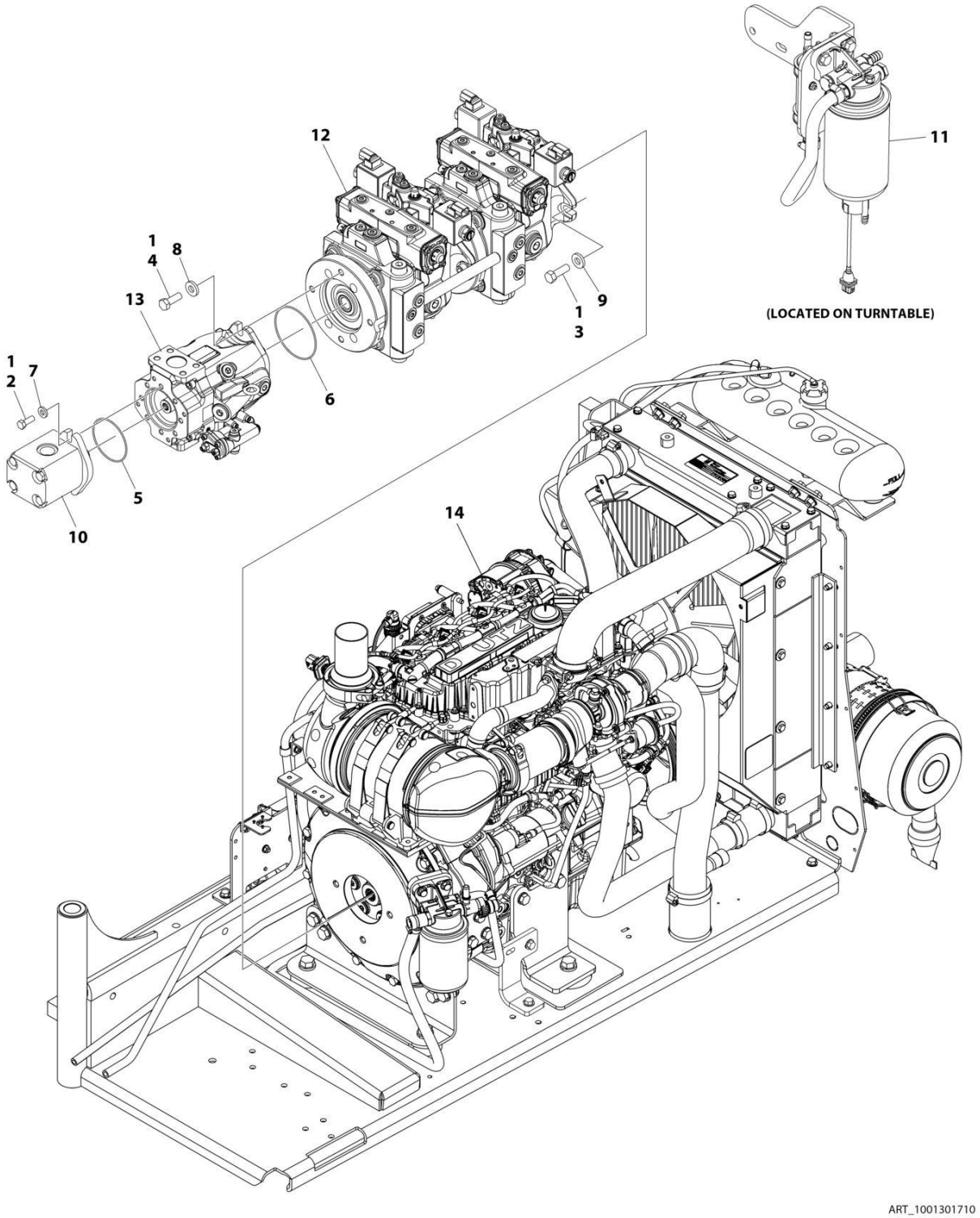


FIGURE 3-42. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301710	Ref	ENGINE SUB-ASSEMBLY EMR5 WITH PMP PUMPS (WITHOUT COLD WEATHER PLUS PACKAGE)	B
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	8310056	2	Washer	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
12	1001286957	1	Pump Assembly - Hydraulic Tandem (See Separate Breakdown in this Section)	
13	1001286958	1	Pump Assembly - Hydraulic Piston (See Separate Breakdown in this Section)	
14	1001301546	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-43. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)

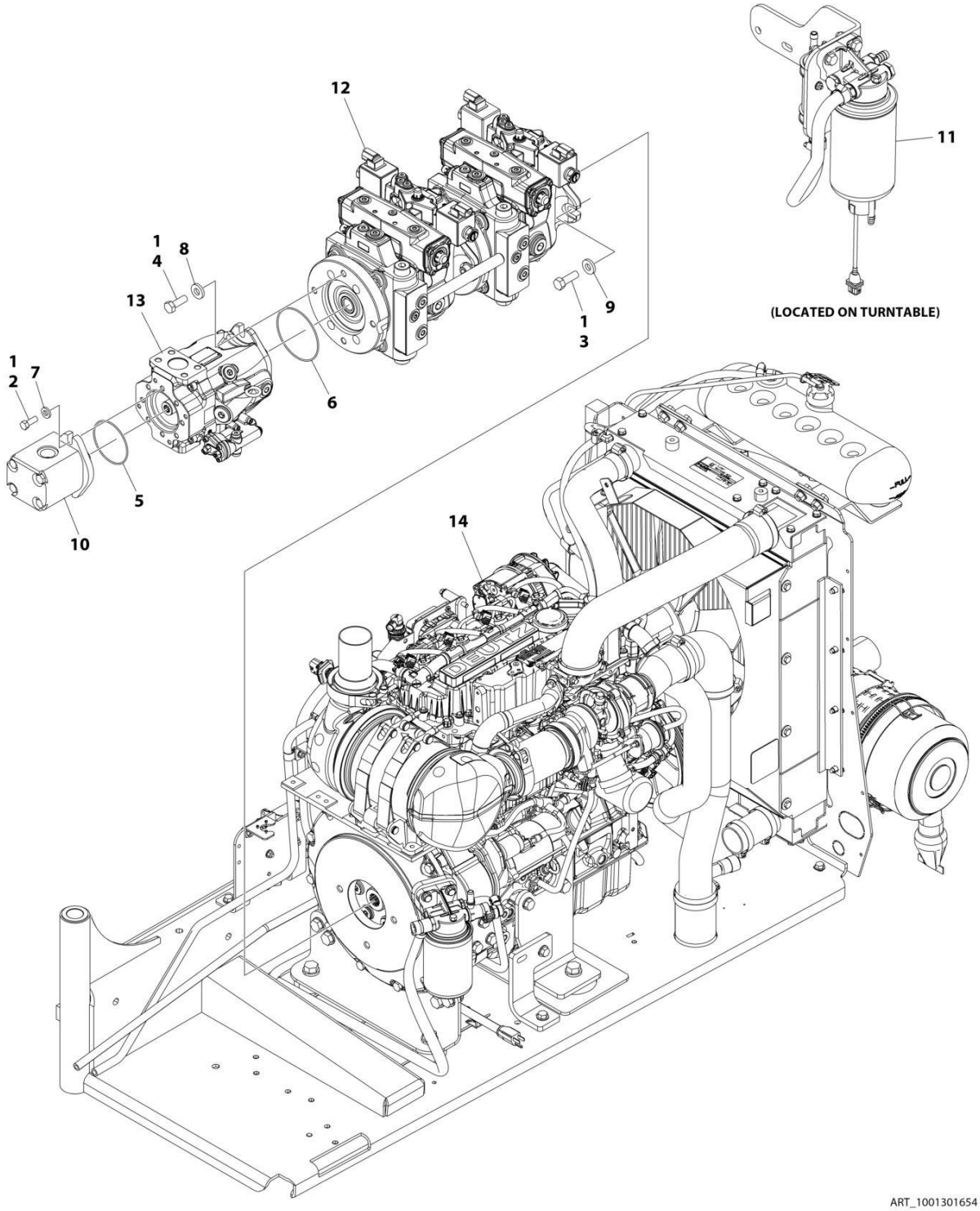
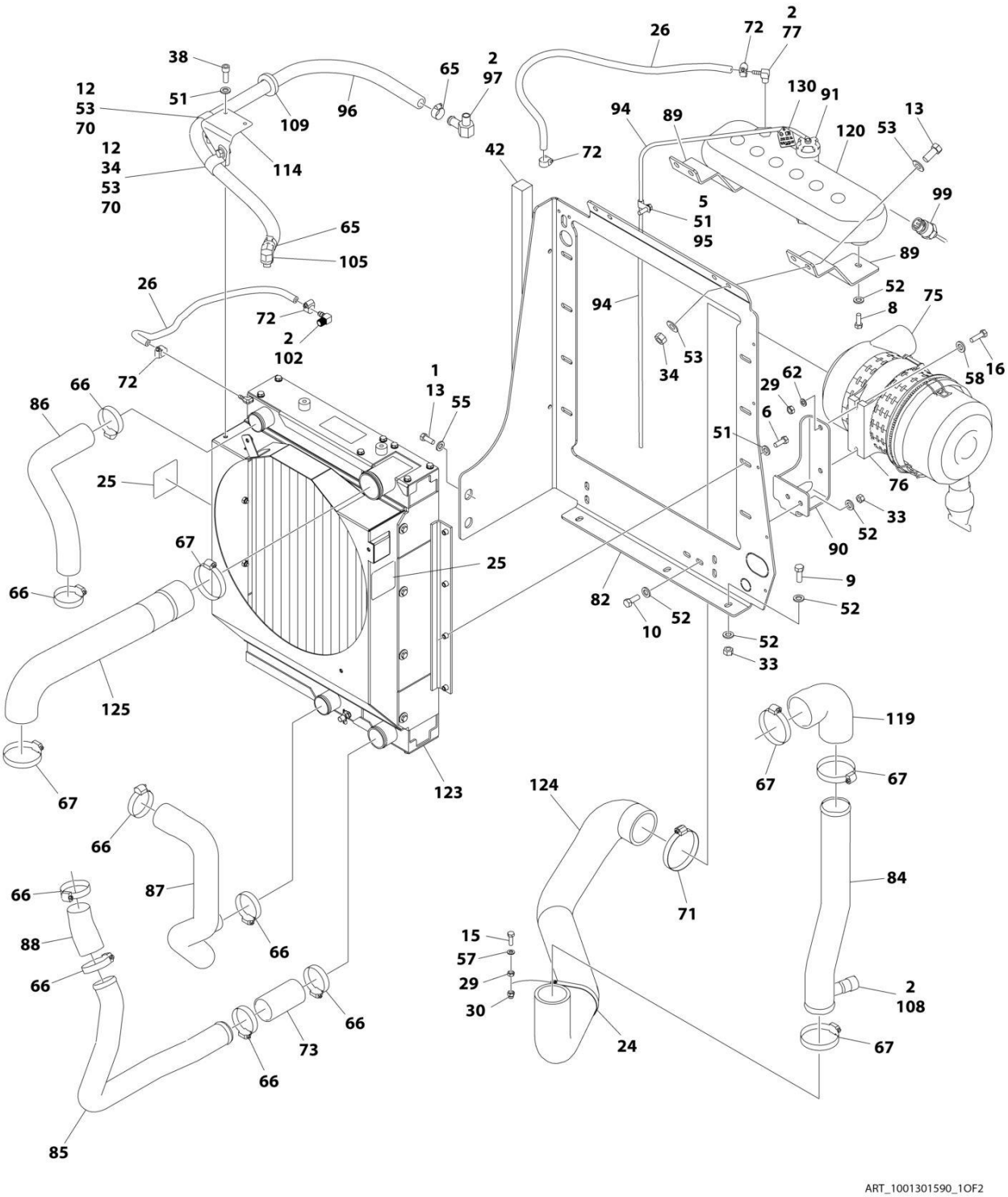


FIGURE 3-43. DEUTZ D2.9L4 - EMR5 ENGINE SUB-ASSEMBLY WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301654	Ref	ENGINE SUB-ASSEMBLY EMR5 WITH PMP PUMPS (WITH COLD WEATHER PLUS PACKAGE)	B
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	8310056	2	Washer	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001165101	1	Bracket, Fuel Pump Filter Assembly (See Separate Breakdown in this Section)	
12	1001286957	1	Pump Assembly - Hydraulic Tandem (See Separate Breakdown in this Section)	
13	1001286958	1	Pump Assembly - Hydraulic Piston (See Separate Breakdown in this Section)	
14	1001301590	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-44. DEUTZ D2.9L4 - EMR5 ENGINE ASSEMBLY (WITH COLD WEATHER PLUS PACKAGE)



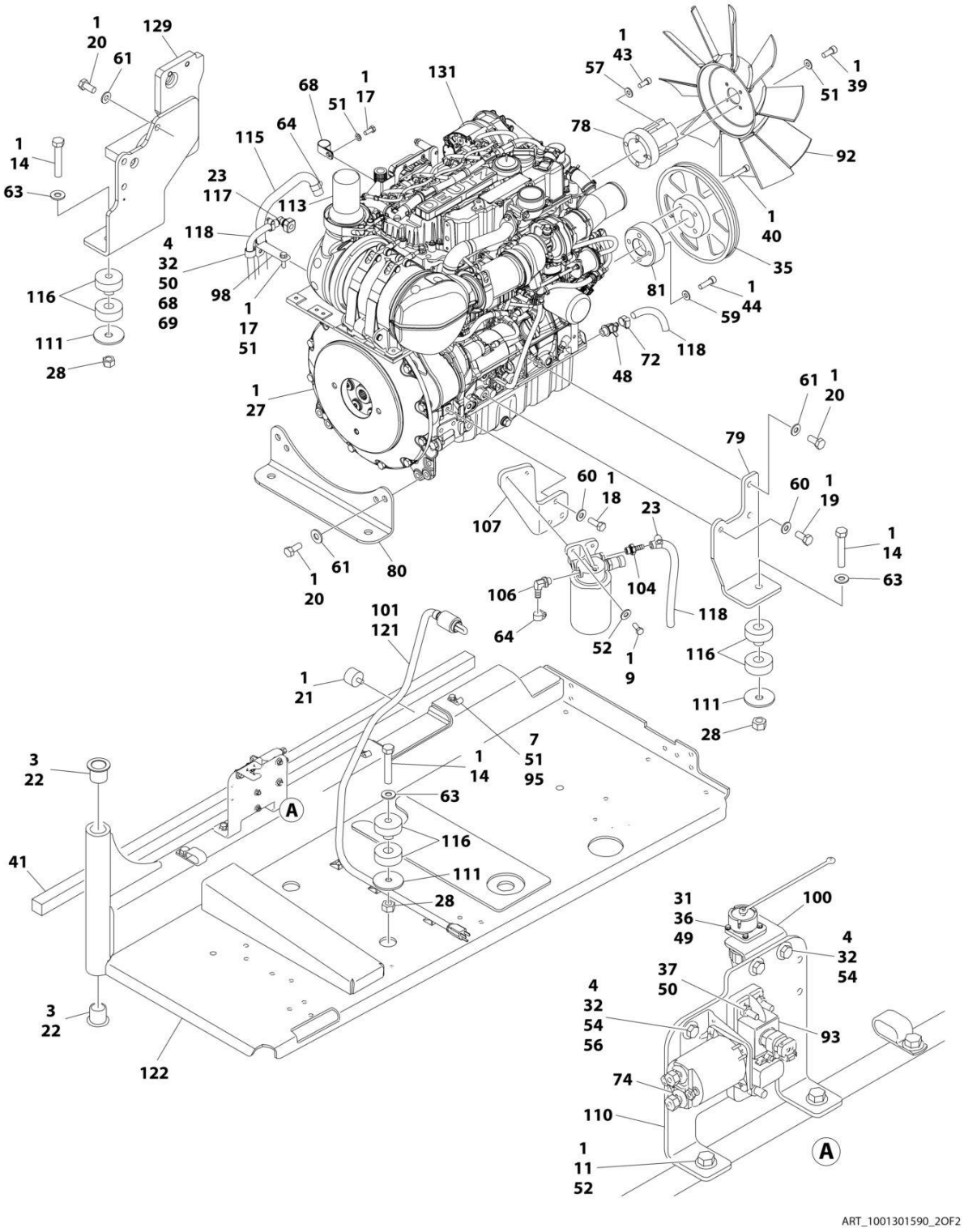

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FIGURE 3-44. DEUTZ D2.9L4 - EMR5 ENGINE ASSEMBLY (WITH COLD WEATHER PLUS PACKAGE)

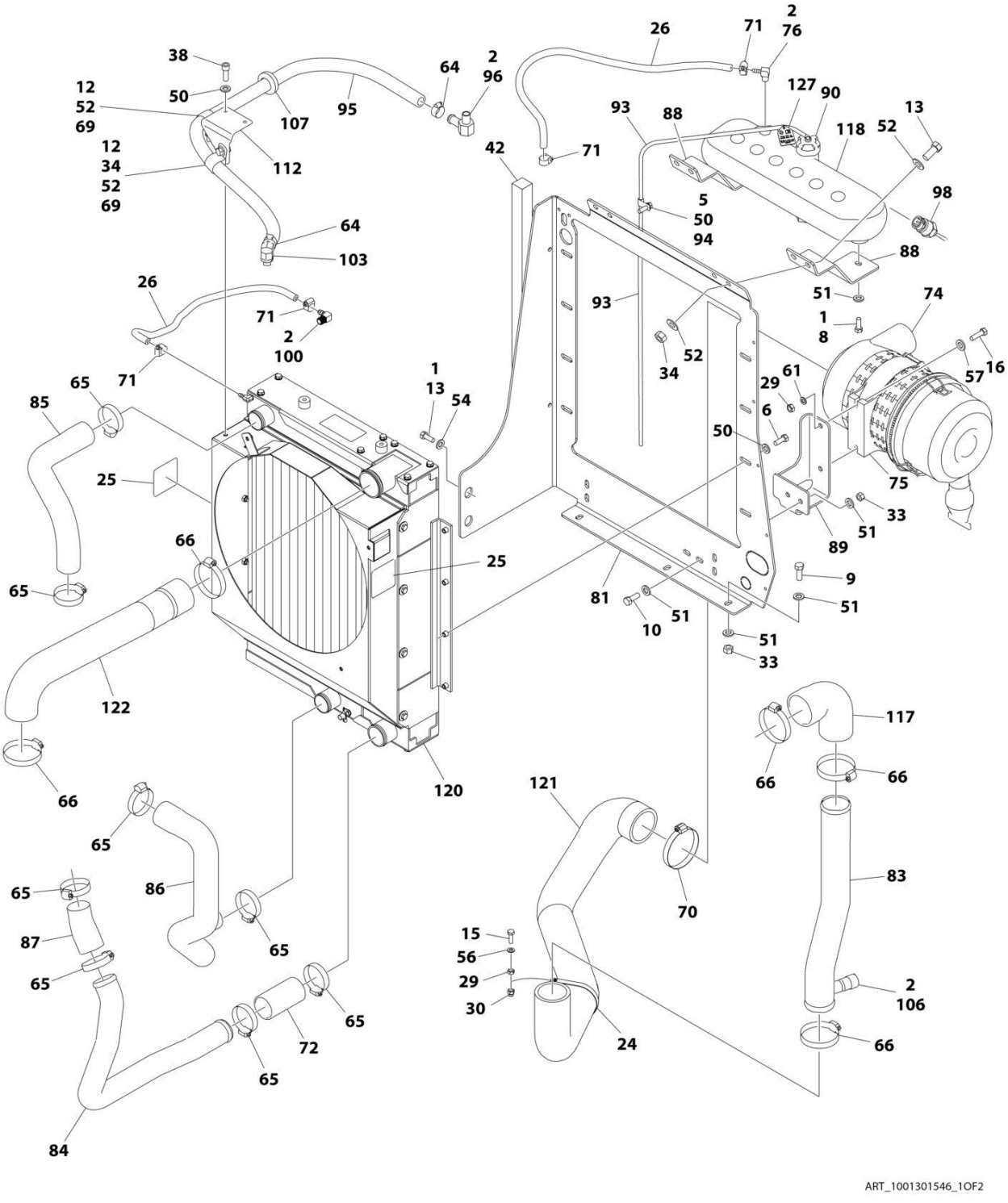
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301590	Ref	TCD2.9L4 EMR5 ENGINE ASSEMBLY (WITH COLD WEATHER PLUS PACKAGE)	B
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant, Pipe	
3	0100062	AR	Adhesive	
4	0641406	5	Bolt 1/4 x 3/4	
5	0641503	1	Bolt 5/16 x 3/8	
6	0641508	8	Bolt 5/16 x 1	
7	0641510	2	Bolt 5/16 x 1-1/4	
8	0641606	2	Bolt 3/8 x 3/4	
9	0641608	9	Bolt 3/8 x 1	
10	0641610	2	Bolt 3/8 x 1-1/4	
11	0641612	2	Bolt 3/8 x 1-1/2	
12	0641706	2	Bolt 7/16 x 3/4	
13	0641708	6	Bolt 7/16 x 1	
14	0682028	4	Bolt 5/8 x 3-1/2	
15	0700812	1	Bolt M8 x 25	
16	0700815	2	Bolt M8 x 35	
17	0760810	2	Bolt M8 x 20	
18	0761214	3	Bolt M12 x 30	
19	0771212	1	Bolt M12 x 25	
20	0771414	9	Bolt M14 x 30	
21	0940070	1	Bumper	
22	0961986	2	Bearing	
23	1320022	2	Clamp	
24	1321289	1	Clamp	
25	1703162	2	Decal - Fan Blade	
26	2720015	5 ft /1.5 m	Hose	
27	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
28	3272001	4	Nut 5/8	
29	3290801	3	Nut M8	
30	3290806	1	Nut M8	
31	3310401	3	Nut #4	
32	3311405	6	Nut 1/4	
33	3311605	9	Nut 3/8	
34	3311705	5	Nut 7/16	
35	3580320	1	Pulley	
36	3910408	3	Screw #4 x 1/2	
37	3931432	1	Capscrew 1/4 x 2	
38	3931508	2	Capscrew 5/16 x 1/2	
39	3931512	4	Capscrew 5/16 x 3/4	
40	3931628	4	Capscrew 3/8 x 1-3/4	
41	3960543	1	Seal	
42	3960544	1	Seal	
43	4031914	4	Bolt M8 x 50	
44	4032014	4	Bolt M10 x 50	
45	4240032	AR	Tie-Strap (Not Shown)	
46	4240099	AR	Tie-Strap (Not Shown)	
47	4460234	3	Mount, Tie-Strap (Not Shown)	
48	4640751	1	Valve, Oil Drain	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	4710400	3	Washer #4	
50	4711400	3	Washer 1/4	
51	4711500	19	Washer 5/16	
52	4711600	24	Washer 3/8	
53	4711700	10	Washer 7/16	
54	4751400	8	Washer 1/4	
55	4751700	2	Washer 7/16	
56	4791400	2	Washer, Star 1/4	
57	4811900	5	Washer M8	
58	4811902	2	Washer M8	
59	4812000	4	Washer M10	
60	4812100	4	Washer M12	
61	4812200	9	Washer M14	
62	4831900	2	Washer M8	
63	4892000	4	Washer 5/8	
64	8405006	2	Clamp	
65	8405007	2	Clamp	
66	8405201	8	Clamp	
67	8405204	5	Clamp	
68	8406102	2	Clip	
69	8406112	1	Clip	
70	8406302	2	Clamp	
71	8410011	1	Clamp	
72	8410013	5	Clamp	
73	91563070	1	Coupling, Rubber	
74	1001117308	1	Relay	
75	1001133633	1	Filter, Air	
75	70024190	1	Element, Filter	
76	1001133634	1	Clamp	
77	1001134488	1	Fitting, 90 Barbed	
78	1001135138	1	Spacer, Fan	
79	1001135560	1	Support	
80	1001135562	1	Support	
81	1001135679	1	Spacer, Pulley	
82	1001135680	1	Support	
83	1001135779	1	Cable, Alternator (Not Shown)	
84	1001135901	1	Pipe	
85	1001135913	1	Pipe	
86	1001135924	1	Hose (Upper)	
87	1001135926	1	Hose (Lower)	
88	1001135943	1	Coupling, Rubber	
89	1001136626	2	Bracket	
90	1001136665	1	Bracket	
91	1001136834	1	Cap	
92	1001137276	1	Fan	
93	1001138228	1	Module, Power	
93	70023592	1	Fuse 20Amp	
93	70023593	1	Fuse 30Amp	
94	1001138248	4 ft /1.2 m	Tube	
95	1001138253	5	Clamp	
96	1001138524	1	Hose	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
97	1001138559	1	Fitting, 90	
98	1001138717	1	Bracket	
99	1001138827	1	Sensor	
100	1001139240	1	Bracket	
101	1001140312	1	Heater, Engine Block	
102	1001140564	1	Fitting, 90 Barbed	
103	1001141304	1	Wire, Glow Plug (Not Shown)	
104	1001141717	1	Fitting, Straight	
105	1001141719	1	Fitting, 90 Barbed	
106	1001142501	1	Fitting, 90 Barbed	
107	1001142685	1	Bracket	
108	1001143390	1	Indicator	
109	1001144089	1	Grommet	
110	1001145154	1	Plate	
111	1001146219	4	Washer	
112	1001148843	1	Harness, Fuel Filter (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
113	1001153024	1	Pipe, Exhaust	
114	1001153387	1	Plate	
115	1001154405	5 ft /1.6 m	Hose	
116	1001155575	4	Mount	
117	1001155823	1	Coupling, 90 Quick Connect	
118	1001165035	31 ft /10 m	Hose	
119	1001165820	1	Hose	
120	1001166393	1	Tank	
121	1001181895	AR	Adhesive	
122	1001191272	1	Support	
123	1001256864	1	Radiator	
124	1001264917	1	Hose	
125	1001264982	1	Hose	
126	1001276646	1	Harness, Engine (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
127	1001281985	1	Connector (Not Shown)	
128	1001281986	1	Connector (Not Shown)	
129	1001283008	1	Mount	
130	1001291401	1	Tag, Coolant	
131	1001301545	1	Engine Deutz TCD2.9L4 (EMR5) (See Separate Breakdown in this Section)	

FIGURE 3-45. DEUTZ D2.9L4 - EMR5 ENGINE ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)



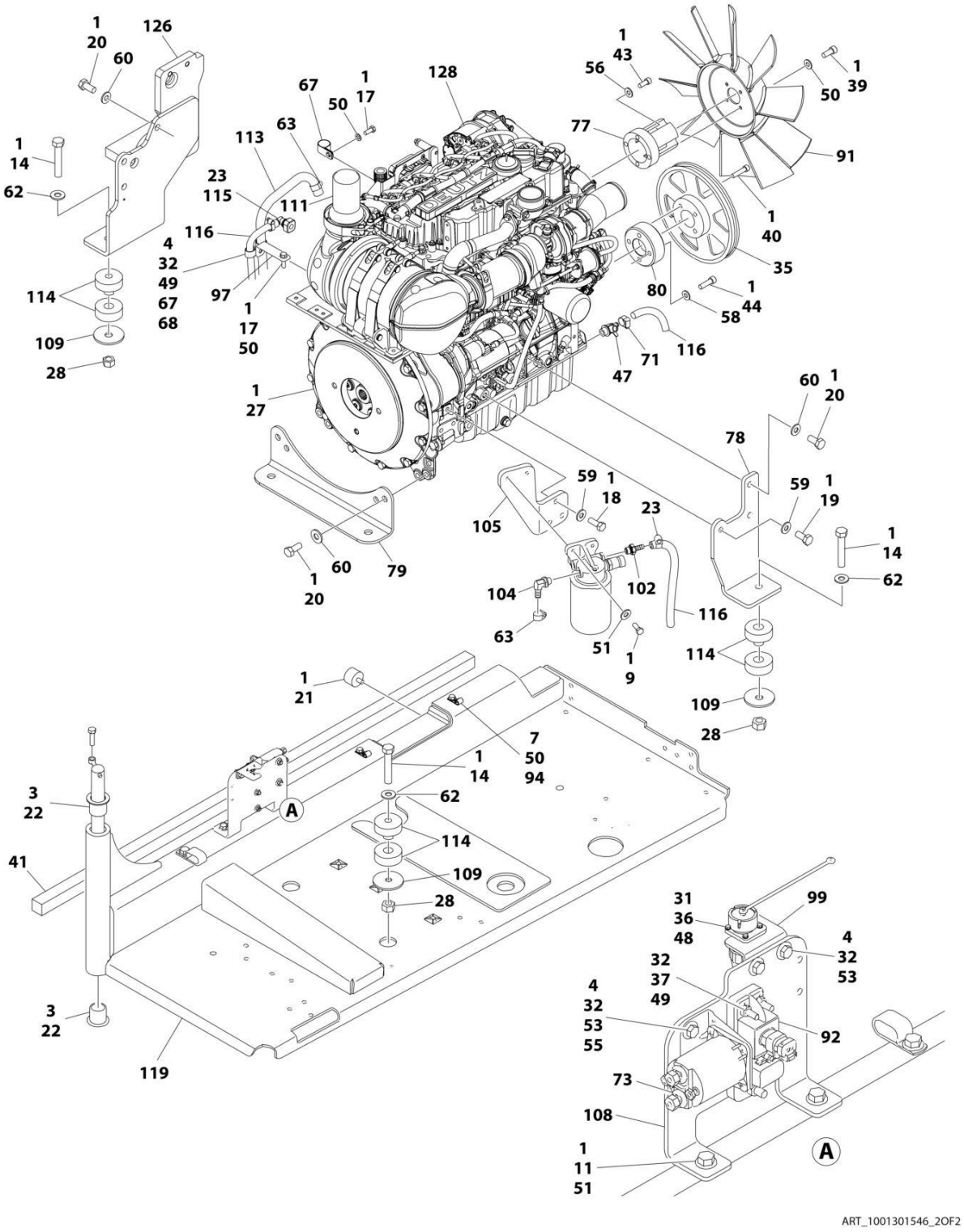

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FIGURE 3-45. DEUTZ D2.9L4 - EMR5 ENGINE ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301546	Ref	TCD2.9L4 EMR5 ENGINE ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)	B
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant, Pipe	
3	0100062	AR	Adhesive	
4	0641406	5	Bolt 1/4 x 3/4	
5	0641503	1	Bolt 5/16 x 3/8	
6	0641508	8	Bolt 5/16 x 1	
7	0641510	2	Bolt 5/16 x 1-1/4	
8	0641606	2	Bolt 3/8 x 3/4	
9	0641608	9	Bolt 3/8 x 1	
10	0641610	2	Bolt 3/8 x 1-1/4	
11	0641612	2	Bolt 3/8 x 1-1/2	
12	0641706	2	Bolt 7/16 x 3/4	
13	0641708	6	Bolt 7/16 x 1	
14	0682028	4	Bolt 5/8 x 3-1/2	
15	0700812	1	Bolt M8 x 25	
16	0700815	2	Bolt M8 x 35	
17	0760810	2	Bolt M8 x 20	
18	0761214	3	Bolt M12 x 30	
19	0771212	1	Bolt M12 x 25	
20	0771414	9	Bolt M14 x 30	
21	0940070	1	Bumper	
22	0961986	2	Bearing	
23	1320022	2	Clamp	
24	1321289	1	Clamp	
25	1703162	2	Decal - Fan Blade	
26	2720015	5 ft /1.5 m	Hose	
27	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
28	3272001	4	Nut 5/8	
29	3290801	3	Nut M8	
30	3290806	1	Nut M8	
31	3310401	3	Nut #4	
32	3311405	6	Nut 1/4	
33	3311605	9	Nut 3/8	
34	3311705	5	Nut 7/16	
35	3580320	1	Pulley	
36	3910408	3	Screw #4 x 1/2	
37	3931432	1	Capscrew 1/4 x 2	
38	3931508	2	Capscrew 5/16 x 1/2	
39	3931512	4	Capscrew 5/16 x 3/4	
40	3931628	4	Capscrew 3/8 x 1-3/4	
41	3960543	1	Seal	
42	3960544	1	Seal	
43	4031914	4	Bolt M8 x 50	
44	4032014	4	Bolt M10 x 50	
45	4240032	AR	Tie-Strap (Not Shown)	
46	4240099	AR	Tie-Strap (Not Shown)	
47	4640751	1	Valve, Oil Drain	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	4710400	3	Washer #4	
49	4711400	3	Washer 1/4	
50	4711500	19	Washer 5/16	
51	4711600	24	Washer 3/8	
52	4711700	10	Washer 7/16	
53	4751400	8	Washer 1/4	
54	4751700	2	Washer 7/16	
55	4791400	2	Washer, Star 1/4	
56	4811900	5	Washer M8	
57	4811902	2	Washer M8	
58	4812000	4	Washer M10	
59	4812100	4	Washer M12	
60	4812200	9	Washer M14	
61	4831900	2	Washer M8	
62	4892000	4	Washer 5/8	
63	8405006	2	Clamp	
64	8405007	2	Clamp	
65	8405201	8	Clamp	
66	8405204	5	Clamp	
67	8406102	2	Clip	
68	8406112	1	Clip	
69	8406302	2	Clamp	
70	8410011	1	Clamp	
71	8410013	5	Clamp	
72	91563070	1	Coupling, Rubber	
73	1001117308	1	Relay	
74	1001133633	1	Filter, Air	
74	70024190	1	Element, Filter	
75	1001133634	1	Clamp	
76	1001134488	1	Fitting, 90 Barbed	
77	1001135138	1	Spacer, Fan	
78	1001135560	1	Support	
79	1001135562	1	Support	
80	1001135679	1	Spacer, Pulley	
81	1001135680	1	Support	
82	1001135779	1	Cable, Alternator (Not Shown)	
83	1001135901	1	Pipe	
84	1001135913	1	Pipe	
85	1001135924	1	Hose (Upper)	
86	1001135926	1	Hose (Lower)	
87	1001135943	1	Coupling, Rubber	
88	1001136626	2	Bracket	
89	1001136665	1	Bracket	
90	1001136834	1	Cap	
91	1001137276	1	Fan	
92	1001138228	1	Module, Power	
92	70023592	1	Fuse 20Amp	
92	70023593	1	Fuse 30Amp	
93	1001138248	4 ft /1.2 m	Tube	
94	1001138253	5	Clamp	
95	1001138524	1	Hose	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
96	1001138559	1	Fitting, 90	
97	1001138717	1	Bracket	
98	1001138827	1	Sensor	
99	1001139240	1	Bracket	
100	1001140564	1	Fitting, 90 Barbed	
101	1001141304	1	Wire, Glow Plug (Not Shown)	
102	1001141717	1	Fitting, Straight	
103	1001141719	1	Fitting, 90 Barbed	
104	1001142501	1	Fitting, 90 Barbed	
105	1001142685	1	Bracket	
106	1001143390	1	Indicator	
107	1001144089	1	Grommet	
108	1001145154	1	Plate	
109	1001146219	4	Washer	
110	1001148843	1	Harness, Fuel Filter (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
111	1001153024	1	Pipe, Exhaust	
112	1001153387	1	Plate	
113	1001154405	5 ft /1.6 m	Hose	
114	1001155575	4	Mount	
115	1001155823	1	Coupling, 90 Quick Connect	
116	1001165035	31 ft /10 m	Hose	
117	1001165820	1	Hose	
118	1001166393	1	Tank	
119	1001191272	1	Support	
120	1001256864	1	Radiator	
121	1001264917	1	Hose	
122	1001264982	1	Hose	
123	1001276646	1	Harness, Engine (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	
124	1001281985	1	Connector (Not Shown)	
125	1001281986	1	Connector (Not Shown)	
126	1001283008	1	Mount	
127	1001291401	1	Tag, Coolant	
128	1001301545	1	Engine Deutz TCD2.9L4 (EMR5) (See Separate Breakdown in this Section)	

FIGURE 3-46. ENGINE COMPONENTS - DEUTZ TCD2.9L4 EMR5 ENGINE

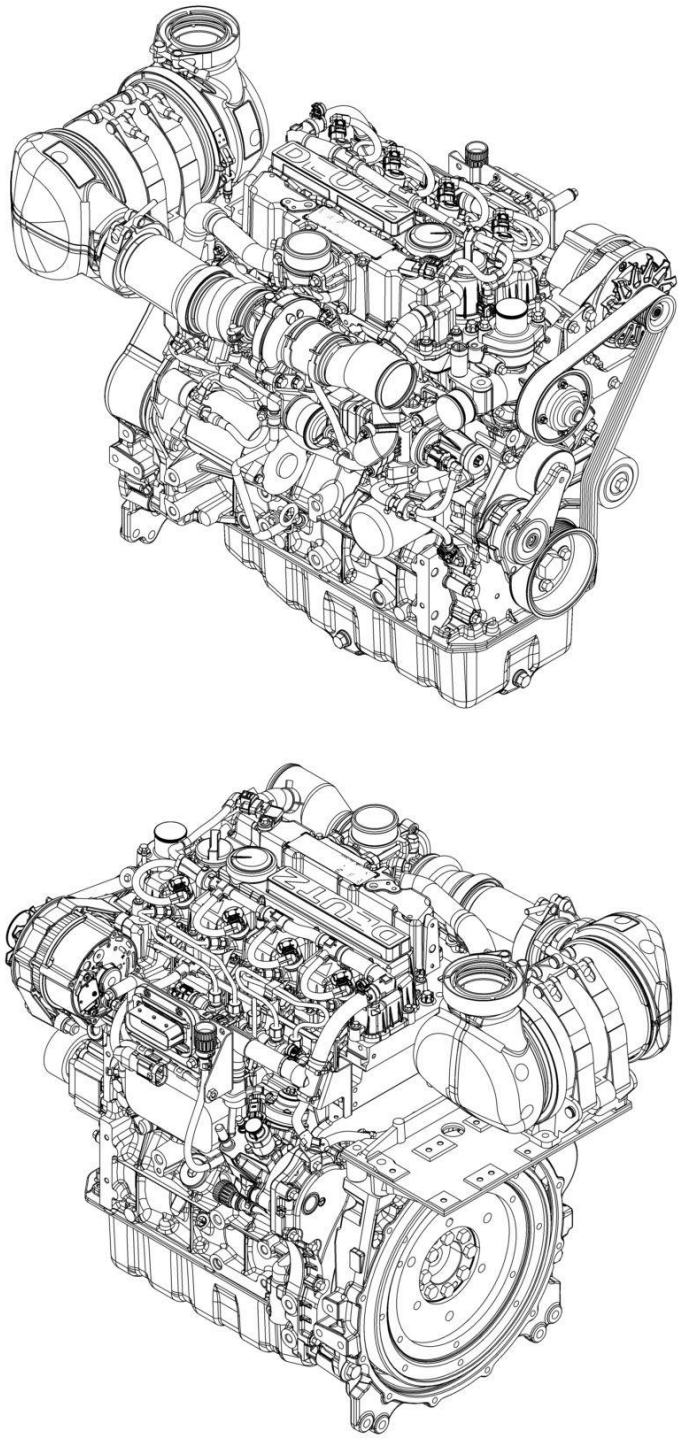

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FIGURE 3-46. ENGINE COMPONENTS - DEUTZ TCD2.9L4 EMR5 ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001301545	Ref	ENGINE COMPONENTS - DEUTZ TCD2.9L4 EMR5 ENGINE	A
	See Note	Ref	Note: Additional components may be available. Contact JLG Customer Service for more details.	
		Ref	**COOLING SYSTEM COMPONENTS**	
	70030360	1	Pump, Coolant (Includes Plug, Rings & Gaskets)	
	70031055	1	O-Ring, Coolant Pump	
	7020492	1	Seal, Plug	
	70007325	1	Gasket	
	70007603	1	Thermostat	
	70005184	1	O-Ring, Thermostat	
	70005931	1	Gasket, Thermostat	
	70025142	1	Cover, Thermostat	
		Ref	**ELECTRICAL SYSTEM COMPONENTS**	
	70024513	1	Cable, Pre-Filter Sensor	
	70024504	1	Sensor, Sencondary Fuel Filter	
	70029512	1	Module, ECU/ECM	
	70031144	1	Starter	
	70031142	1	Alternator (includes Regulator)	
	70031143	1	Regulator	
	70000345	4	Plug, Glow	
	70025231	1	Harness, Glow Plug (Not Shown)	
	70008436	1	Harness, Engine	
	70028540	1	Sender, Temperature	
	70024504	1	Sensor, Pressure (includes O-Ring)	
	70026210	2	Sensor, Speed (Includes O-Ring)	
	70024507	1	Sensor, Pressure (includes O-Ring) (Air Charge Manifold)	
		Ref	**EXHAUST SYSTEM COMPONENTS**	
	70025164	1	Gasket, Exhaust Manifold to Head	
	70029557	1	Gasket, Exhaust Manifold to 1st Exhaust Pipe	
	70007354	1	Gasket, 1st Exhaust Pipe to beyond	
	70031095	2	Gasket, EGR Module to Air Charge Manifold	
	70025130	8	Bolt, Exhaust Maniufold	
	70031137	1	Module, EGR	
	70007328	1	Turbocharger	
	70004504	1	Compensator	
	70007330	1	Inlet, Catalyst (Includes Clamp & Gasket)	
	70029517	1	Clamp	
	70029520	1	Gasket	
	70007331	1	Outlet, Catalyst	
		Ref	**FUEL SYSTEM COMPONENTS**	
	1001225431	1	Filter, Secondary Spin-on	
	1001225430	1	Filter, Pre-Filter Fuel	
	70030381	1	Pump, High Pressure (Includes O-Rings, Gaskets, Overflow valve & Volume Control Valve)	
	70004505	1	Valve, Overflow	
	70004508	1	Valve, Volume Control	
	70025181	4	Injector, Fuel (Includes O-Ring & Sealing Washer)	
	70008422	1	Pump, Fuel Supply (Includes Clamps)	
	70025144	2	Clamp	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GASKETS & SEAL & KITS (Note: Some components listed with main component)**	
	70005938	1	Gasket Kit	
	70024906	1	Gasket, Head	
	70025205	1	Gasket, Valve Cover	
	70002718	1	Seal, Rear Gear Case	
	70028185	1	Gasket, Front Cover	
	70008296	1	Seal, Front Cover	
	70005176	1	O-Ring, Air Charge Manifold	
	70005177	1	Gasket, Air Charge Manifold	
		Ref	**LUBRICATION SYSTEM COMPONENTS**	
	7016331	1	Filter, Oil	
	70024904	1	Dipstick (Inlcudes Seal)	
	70024905	1	Seal	
	7020465	2	Cap, Filler	
	70005941	2	Plug, Oil Pan	
	70005942	2	Seal, Oil Pan Plug	
	70005172	1	Pump, Oil Lube (Includes O-Ring & Gasket)	
	70025135	1	O-Ring	
	70005173	1	Gasket	
	70031474	1	Cooler, Oil	
	70031388	1	Seal, Oil Cooler	
		Ref	**MECHANICAL COMPONENTS**	
	70001870	1	Flywheel (Includes Ring Gear)	
	7024579	1	Gear, Ring	
	70028699	1	Belt Tensioner	
	70027432	1	Idler	
	70025733	1	Pulley, Ribbed Belt	
	70004277	1	Belt, Drive	

FIGURE 3-47. PUMP ASSEMBLY - HYDRAULIC TANDEM

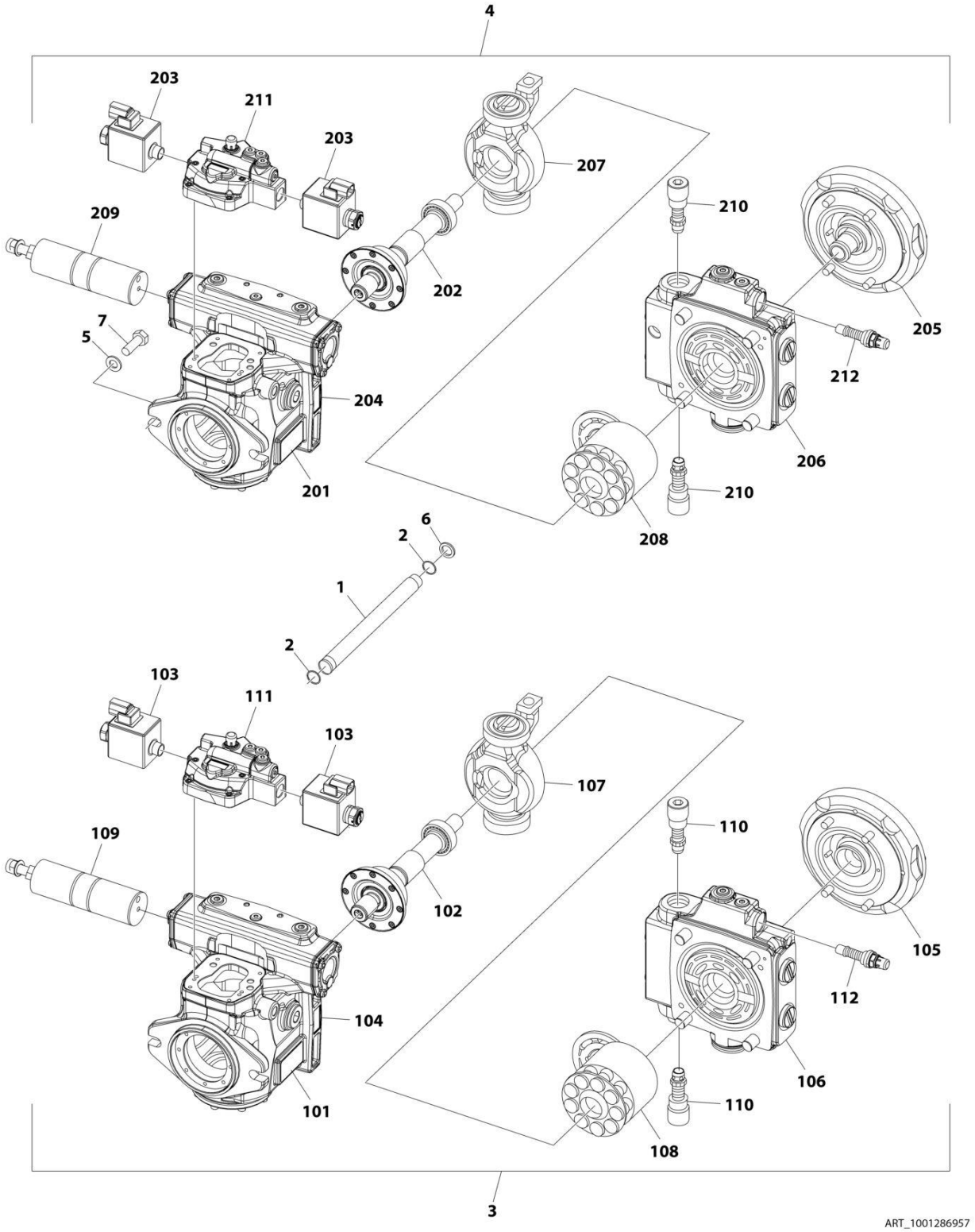

FIGURE 3-47. PUMP ASSEMBLY - HYDRAULIC TANDEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286957	Ref	PUMP ASSEMBLY - HYDRAULIC TANDEM	A
	See Note	Ref	(Note: No Other Service Parts Available)	
1	70008490	1	Shaft	
2	70008491	2	O-Ring	
3	70008492	1	Front Pump Assembly (Includes Items 101-112)	
4	70008493	1	Rear Pump Assembly (Includes Items 201-212)	
5	70008494	2	Washer M12	
6	70008495	1	Washer M12	
7	70008496	2	Bolt M12 x 35 CL10.9	
101	See Note	NSS	Plate, Serial Number (Note: Not Available for Purchase)	
102	70008497	1	Shaft	
103	70008498	2	Coil	
104	See Note	1	Housing Assembly (Note: Purchase PN 70008492)	
104	70008506	1	Gasket (Between Housing & Distributor Valve)	
104	70005023	2	Rivet	
105	70008511	1	Body	
106	70008499	1	Valve, Distributor	
107	70008500	1	Swash Plate	
108	70008501	1	Rotor	
109	70008502	1	Servo	
110	70008503	2	Cartridge, Relief Valve	
111	70008504	1	Valve, Control	
111	70008507	1	Gasket (Between Control Valve & Housing)	
111	70008508	3	O-Ring	
112	70008505	1	Cartridge, Relief Valve	
201	See Note	NSS	Plate, Serial Number (Note: Not Available for Purchase)	
202	70008509	1	Shaft	
202	70005041	1	Ring, Retaining	
203	70008498	2	Coil	
204	NPN	1	Assembly, Housing	
204	See Note	1	Housing Assembly (Note: Purchase PN 70008493)	
204	70008506	1	Gasket (Between Housing & Distributor Valve)	
204	70005023	2	Rivet	
205	70008512	1	Body	
206	70008510	1	Valve, Distributor	
207	70008500	1	Swash Plate	
208	70008501	1	Rotor	
209	70008502	1	Servo	
210	70008503	2	Cartridge, Relief Valve	
211	70008504	1	Valve, Control	
211	70008507	1	Gasket (Between Control Valve & Housing)	
211	70008508	3	O-Ring	
212	70008505	1	Cartridge, Relief Valve	

FIGURE 3-48. PUMP ASSEMBLY - HYDRAULIC PISTON

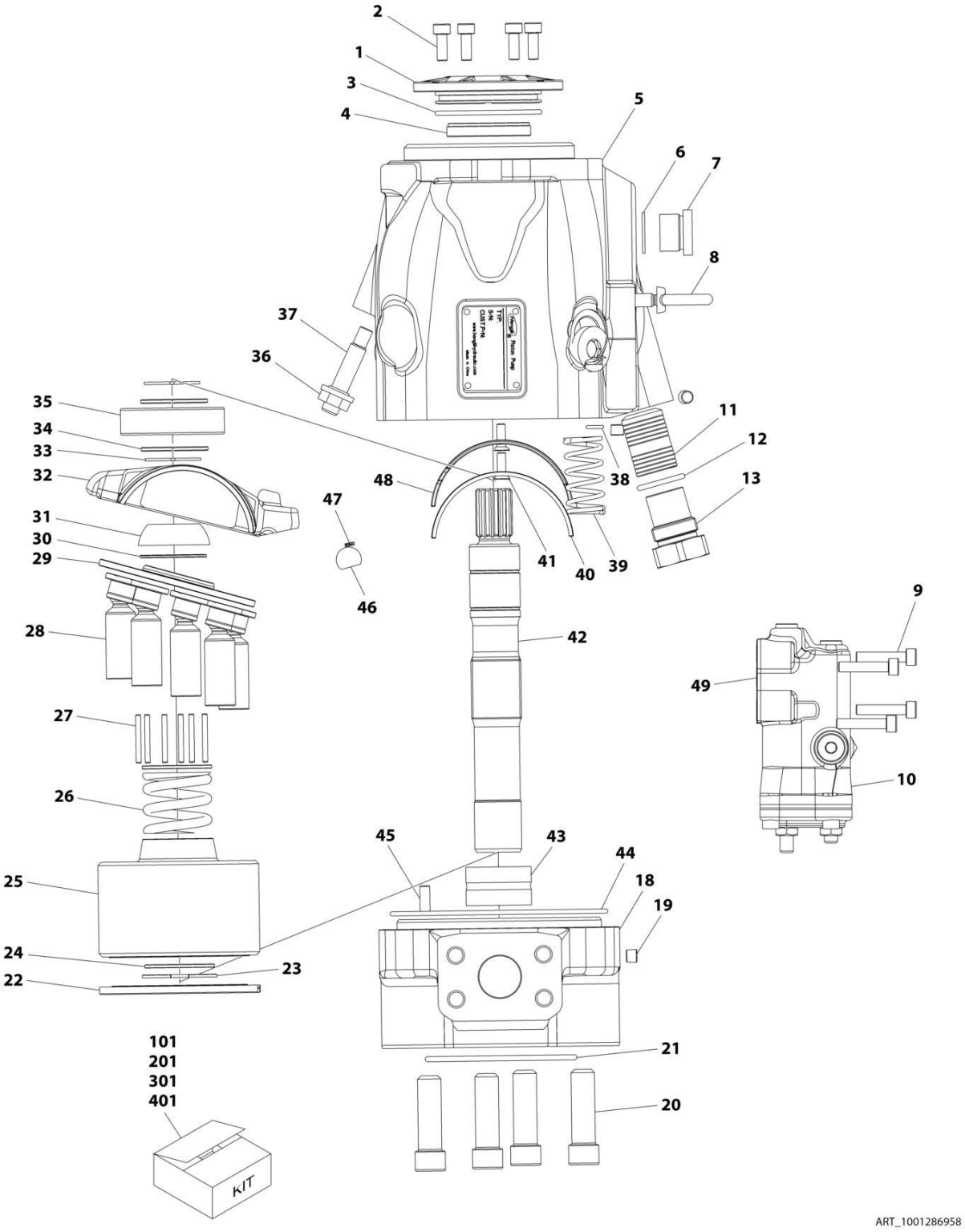

FIGURE 3-48. PUMP ASSEMBLY - HYDRAULIC PISTON

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286958	Ref	PUMP ASSEMBLY - HYDRAULIC PISTON	A
1	70007789	1	Cap	
2	NPN	4	Bolt M6 x 16	
3	See Note	1	O-Ring (Note: Not Sold Separately, Purchase Item 401)	
4	70007798	1	Seal	
5	NPN	1	Housing	
6	See Note	3	O-Ring (Note: Not Sold Separately, Purchase Item 401)	
7	70007790	3	Plug	
8	NPN	1	Bolt M8	
9	NPN	2	Bolt M6 x 30	
10	70007787	1	Valve, Control	
11	70007800	1	Piston	
12	See Note	1	O-Ring (Note: Not Sold Separately, Purchase Item 401)	
13	70007801	1	Plug	
18	NPN	1	Cover	
19	70007791	3	Plug	
20	NPN	4	Bolt M12 x 45	
21	See Note	1	O-Ring (Note: Not Sold Separately, Purchase Item 401)	
22	See Note	1	Plate (Note: Not Sold Separately, Purchase Item 201)	
23	See Note	1	Ring, Retaining (Note: Not Sold Separately, Purchase Item 201)	
24	See Note	2	Shim (Note: Not Sold Separately, Purchase Item 201)	
25	See Note	1	Cylinder (Note: Not Sold Separately, Purchase Item 201)	
26	See Note	1	Spring (Note: Not Sold Separately, Purchase Item 201)	
27	See Note	6	Pin (Note: Not Sold Separately, Purchase Item 201)	
28	See Note	9	Piston (Note: Not Sold Separately, Purchase Item 201)	
29	See Note	1	Retainer (Note: Not Sold Separately, Purchase Item 201)	
30	See Note	1	Shim (Note: Not Sold Separately, Purchase Item 201)	
31	See Note	1	Bushing (Note: Not Sold Separately, Purchase Item 201)	
32	See Note	1	Plate, Swash (Note: Not Sold Separately, Purchase Item 301)	
33	See Note	2	Ring, Retaining (Note: Not Sold Separately, Purchase Item 101)	
34	See Note	2	Shim (Note: Not Sold Separately, Purchase Item 101)	
35	See Note	1	Bearing (Note: Not Sold Separately, Purchase Item 101)	
36	70008526	1	Nut M10	
37	70008525	1	Screw	
38	See Note	1	O-Ring (Note: Not Sold Separately, Purchase Item 401)	
39	70007792	1	Spring	
40	70007793	1	Bushing	
41	70007796	2	Bolt M5 x 16	
42	See Note	1	Shaft (Note: Not Sold Separately, Purchase Item 101)	
43	70007797	1	Bearing	
44	70007799	1	Gasket	
45	70007794	1	Pin	
46	See Note	1	Ball (Note: Not Sold Separately, Purchase Item 301)	
47	See Note	1	Spring (Note: Not Sold Separately, Purchase Item 301)	
48	70007795	1	Bushing	
49	See Note	1	O-Ring (Note: Not Sold Separately, Purchase Item 401)	
101	70008527	1	Assembly, Shaft (Includes Items 33-35 & 42)	
201	70007786	1	Assembly, Cylinder (Includes Items 22-31)	
301	70007788	1	Assembly, Swash Plate (Includes Items 32, 46, 47)	
401	70008528	1	Kit, Seal (Includes Items 3, 6, 12, 21, 38 & 49)	

FIGURE 3-49. DEUTZ TCD2.9L4 (STAGE V) ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

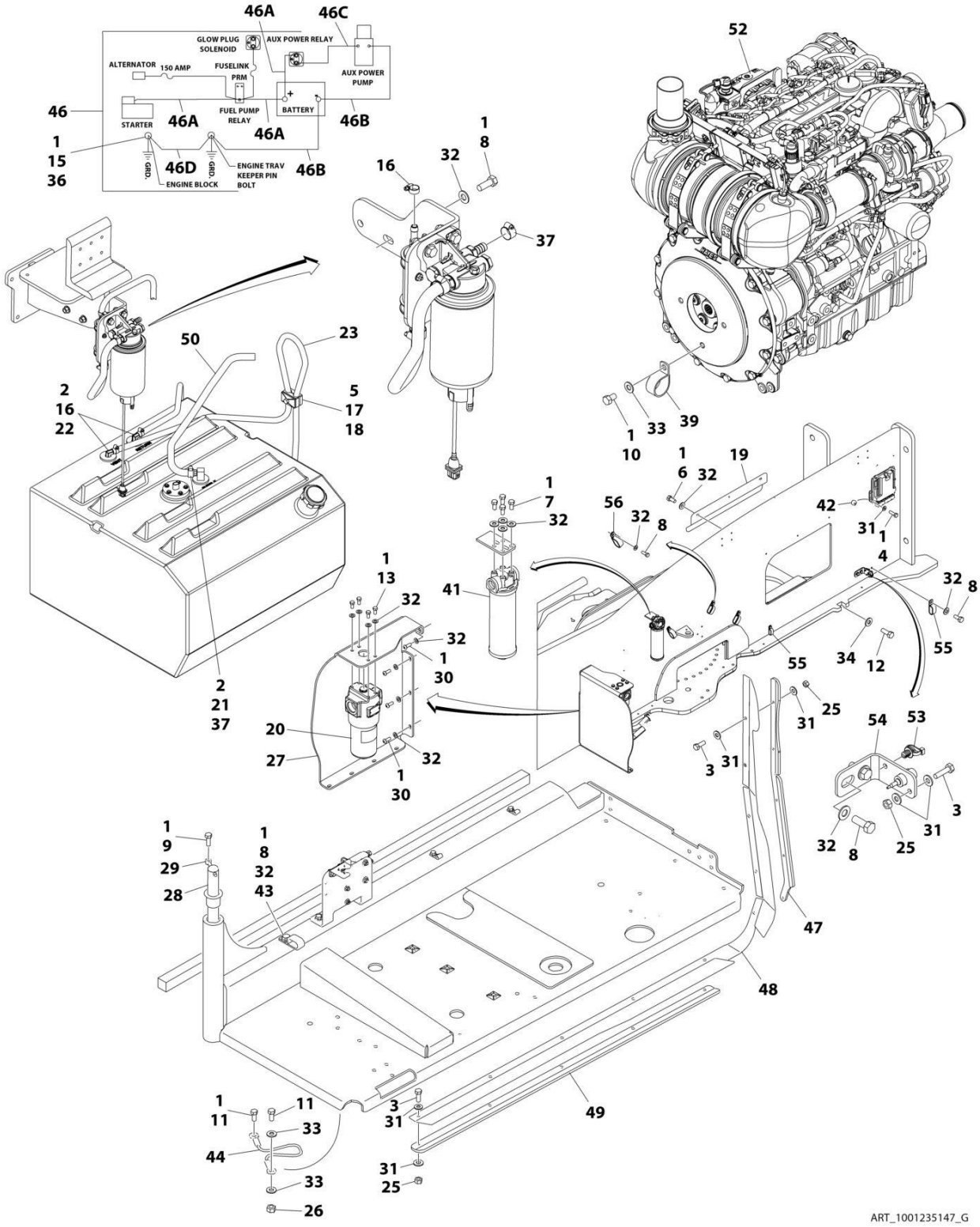

FIGURE 3-49. DEUTZ TCD2.9L4 (STAGE V) ENGINE INSTALLATION - WITH REXROTH PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001235147	Ref	DEUTZ TCD2.9L4 (STAGE V) ENGINE INSTALLATION	G
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	11	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	10	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
15	0761210	1	Bolt M12 x 20	
16	1320022	3	Clamp	
17	1320187	1	Clamp	
18	1320190	1	Cover, Clamp	
19	1671121	1	Cover	
20	2120218	1	Filter, High Pressure	
20	2120219	1	Element, Filter	
20	70001344	1	O-Ring, Bowl	
20	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
21	2180832	1	Fitting, Barbed	
22	2220313	2	Fitting, 90 Barbed	
23	2750532	5 ft/1.5m	Hose	
25	3311405	11	Nut 1/4	
26	3311805	1	Nut 1/2	
27	3380723	1	Panel, Noise Reduction	
28	3422446	1	Pin, Pivot	
29	3841143	1	Pin, Keeper	
30	3900316	5	Screw 3/8 x 1	
31	4711400	26	Washer 1/4	
32	4711600	26	Washer 3/8	
33	4711800	3	Washer 1/2	
34	4752000	1	Washer 5/8	
36	4812100	1	Washer M12	
37	8405006	2	Clamp	
39	90028660	1	Clamp	
41	1001108617	1	Hydraulic Pressure Filter Assembly	
41	70002231	1	Element, Filter	
42	1001110425	4	Spacer	
43	1001116792	1	Clamp	
44	1001131542	1	Lanyard	
45	1001138491	NLA	Harness, Fuel (Use p/n 1001222665) (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
46	1001142610	1	Battery Cable Kit	
46A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd) and Aux Pump	
46B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
46C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
46C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
47	1001145089	1	Clamp	
48	1001145560	1	Panel, Rubber	
49	1001145842	1	Plate, Clamping	
50	1001154405	1.9 ft /0.6m	Hose	
52	1001277607	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
53	1001146588	1	Strap	
54	1001256879	1	Bracket	
55	1321283	2	Clamp	
56	1321716	3	Clamp	
57	4240099	AR	Tie-Strap (Not Shown)	

FIGURE 3-50. DEUTZ TCD2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY - WITH REXROTH PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

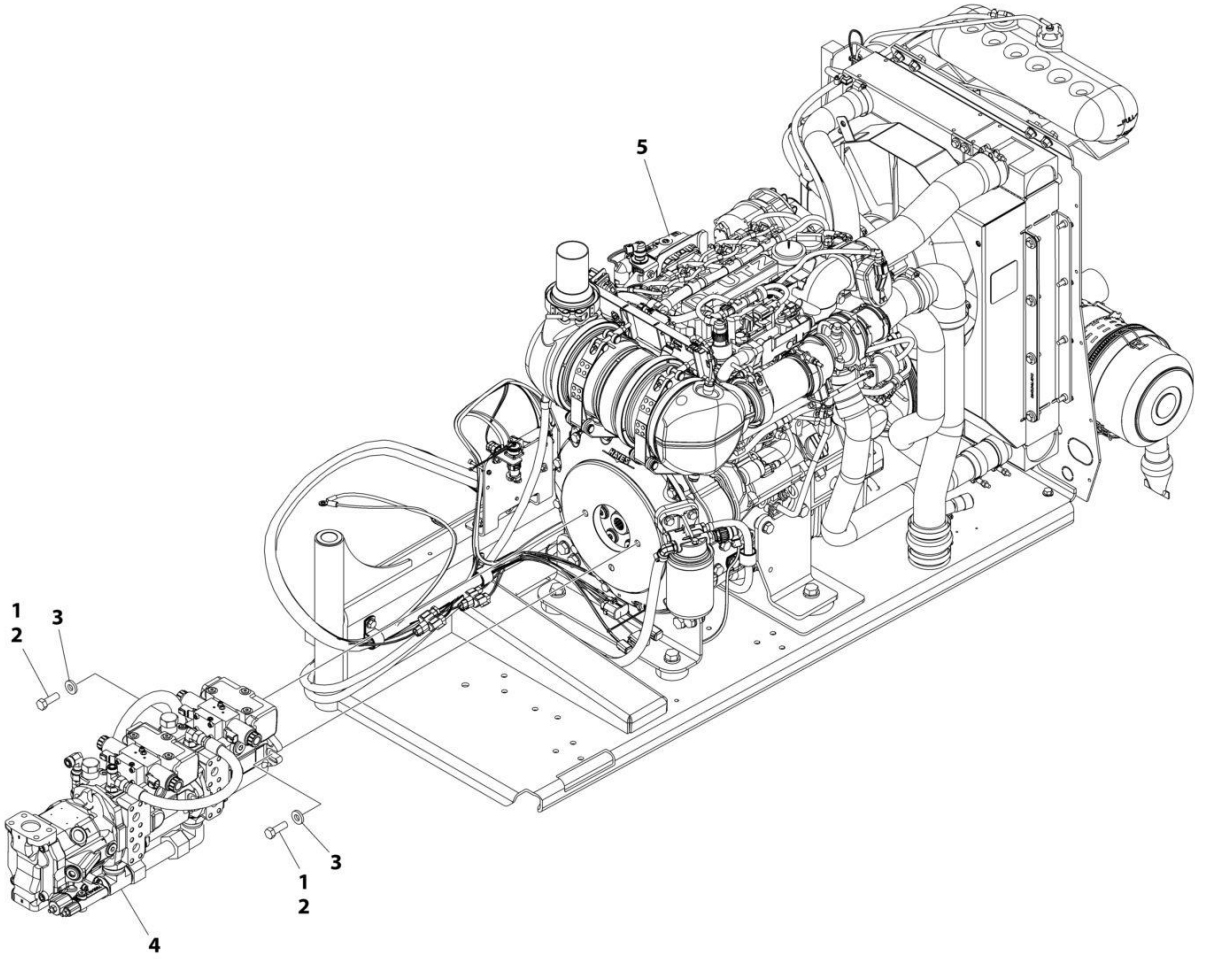


FIGURE 3-50. DEUTZ TCD2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY - WITH REXROTH PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277607	Ref	DEUTZ TCD2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY	E
1	0100011	AR	Compound, Locking	
2	0641814	2	Bolt 1/2 x 1-3/4	
3	4891800	2	Washer 1/2	
4	1001152963	1	Pump Assembly (See Separate Breakdown in this Section)	
5	1001277599	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-51. DEUTZ D2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY WITH PMP PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

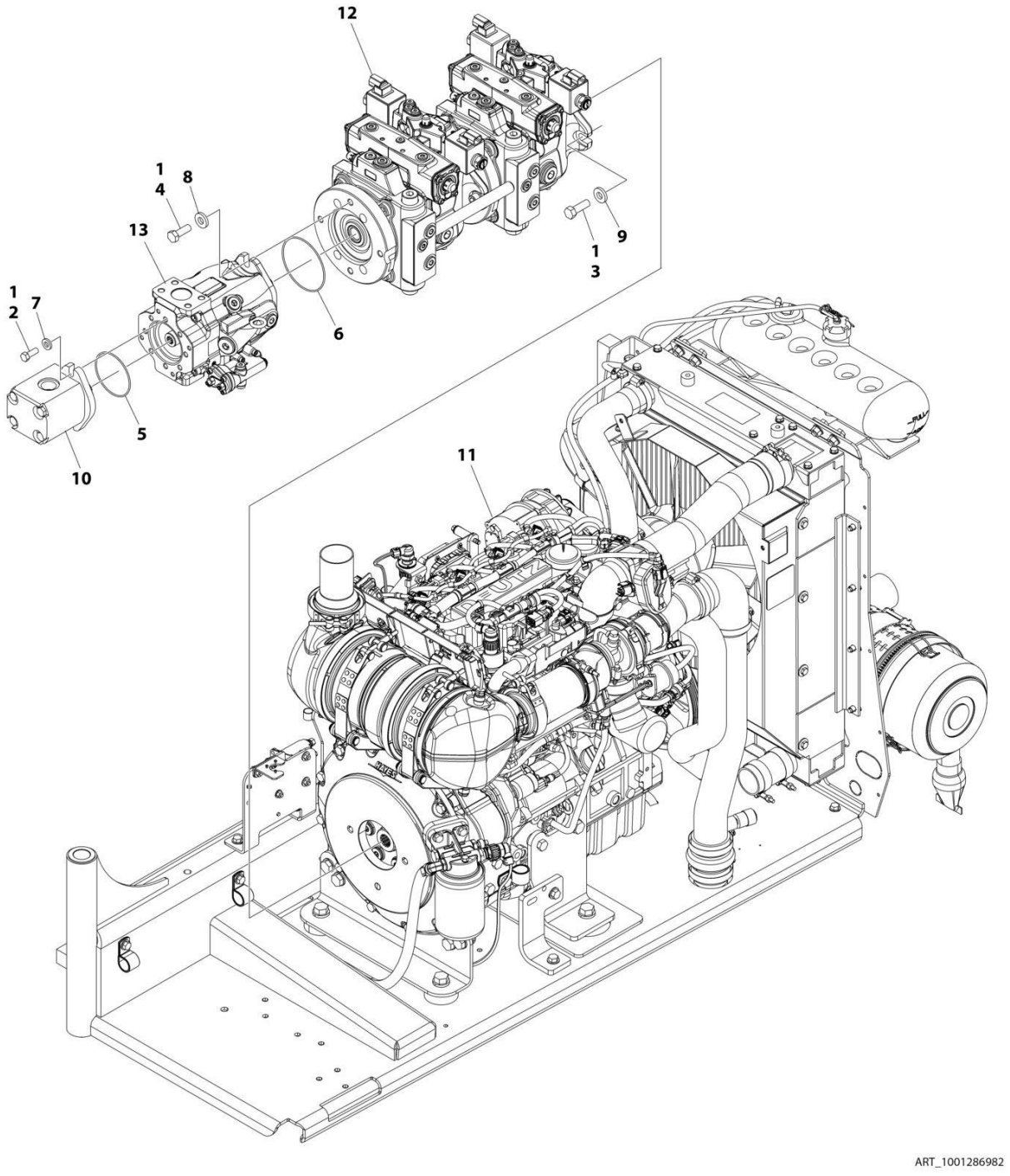


FIGURE 3-51. DEUTZ D2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY WITH PMP PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286982	Ref	ENGINE SUB-ASSEMBLY (STAGE V) WITH PMP PUMPS AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)	B
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	8310056	2	Washer	
10	1001112927	1	Pump Assembly - Sauer Gear (See Separate Breakdown in this Section)	
11	1001277599	1	Engine Assembly (See Separate Breakdown in this Section)	
12	1001286957	1	Pump Assembly - Hydraulic Tandem (See Separate Breakdown in this Section)	
13	1001286958	1	Pump Assembly - Hydraulic Piston (See Separate Breakdown in this Section)	

FIGURE 3-52. DEUTZ TCD2.9L4 (STAGE V) ENGINE COMPONENTS

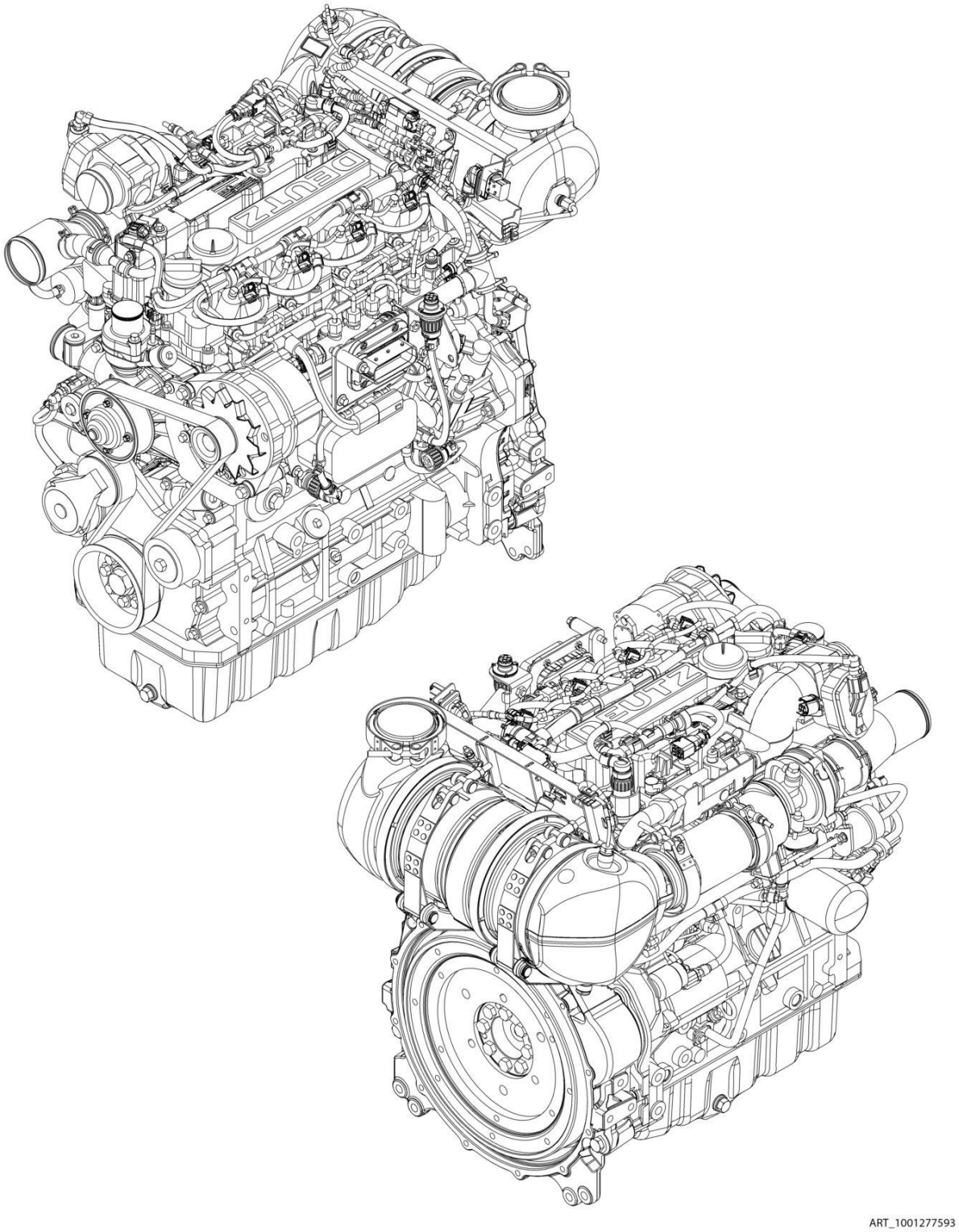


FIGURE 3-52. DEUTZ TCD2.9L4 (STAGE V) ENGINE COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277593	Ref	DEUTZ TCD2.9L4 (STAGE V) ENGINE	A
	See Note	Ref	Note: No Service Parts Availabe At Time of Printing	

SECTION 3 - ENGINE

FIGURE 3-53. DEUTZ TCD2.9L4 (STAGE V) ENGINE INSTALLATION - WITH SAUER PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

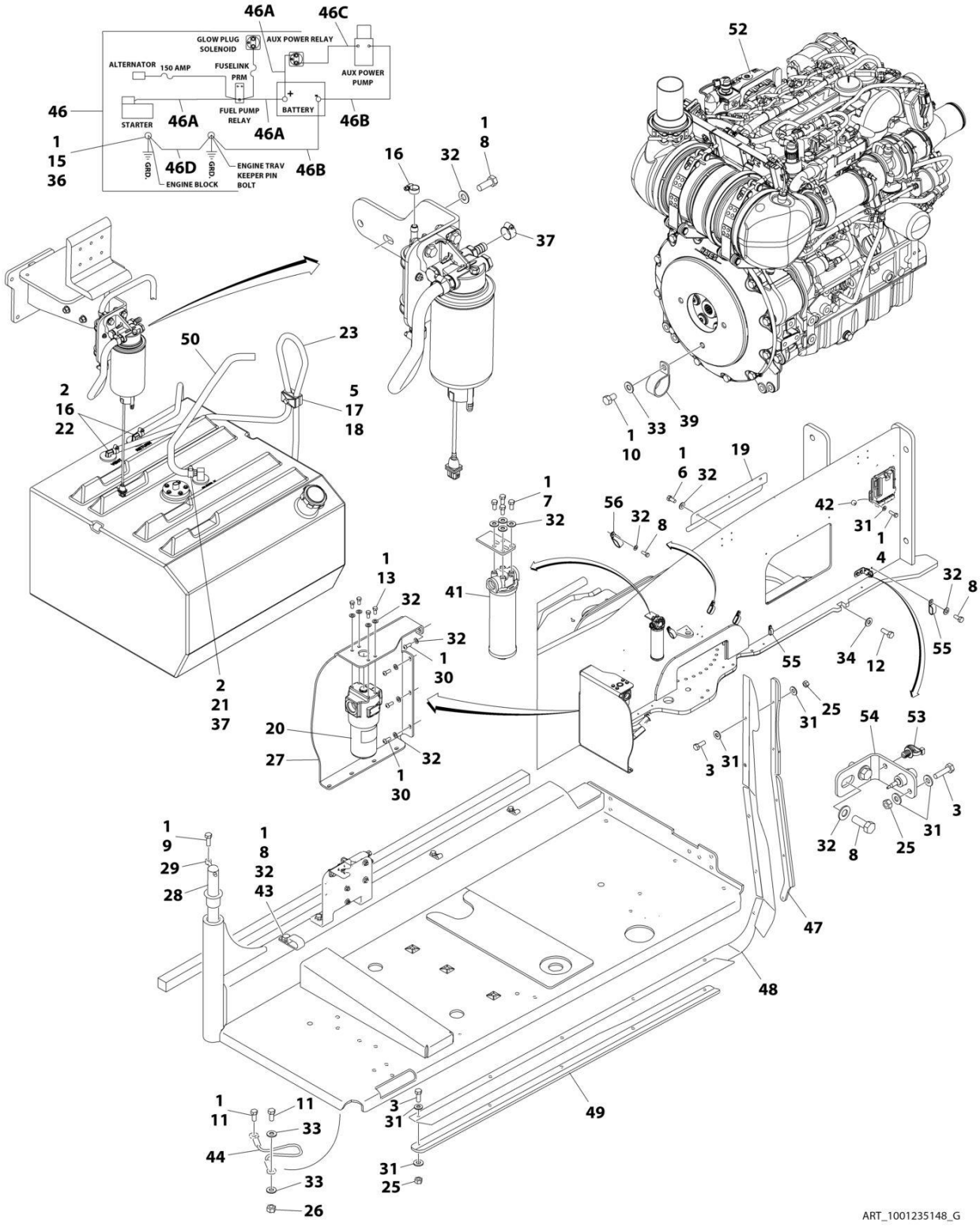


FIGURE 3-53. DEUTZ TCD2.9L4 (STAGE V) ENGINE INSTALLATION - WITH SAUER PUMP (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001235148	Ref	DEUTZ TCD2.9L4 (STAGE V) ENGINE INSTALLATION	G
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	11	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	10	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
15	0761210	1	Bolt M12 x 20	
16	1320022	3	Clamp	
17	1320187	1	Clamp	
18	1320190	1	Cover, Clamp	
19	1671121	1	Cover	
20	2120218	1	Filter, High Pressure	
20	2120219	1	Element, Filter	
20	70001344	1	O-Ring, Bowl	
20	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
21	2180832	1	Fitting, Barbed	
22	2220313	2	Fitting, 90 Barbed	
23	2750532	5 ft /1.5m	Hose	
25	3311405	11	Nut 1/4	
26	3311805	1	Nut 1/2	
27	3380723	1	Panel, Noise Reduction	
28	3422446	1	Pin, Pivot	
29	3841143	1	Pin, Keeper	
30	3900316	5	Screw 3/8 x 1	
31	4711400	26	Washer 1/4	
32	4711600	26	Washer 3/8	
33	4711800	3	Washer 1/2	
34	4752000	1	Washer 5/8	
36	4812100	1	Washer M12	
37	8405006	2	Clamp	
39	90028660	1	Clamp	
41	1001108617	1	Hydraulic Pressure Filter Assembly	
41	70002231	1	Element, Filter	
42	1001110425	4	Spacer	
43	1001116792	1	Clamp	
44	1001131542	1	Lanyard	
45	1001138491	NLA	Harness, Fuel (Use p/n 1001222665) (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
46	1001142610	1	Battery Cable Kit	
46A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd) and Aux Pump	
46B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available - Purchase Locally)	
46C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
46C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available - Purchase Locally)	
46D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
47	1001145089	1	Clamp	
48	1001145560	1	Panel, Rubber	
49	1001145842	1	Plate, Clamping	
50	1001154405	1.9 ft /0.6m	Hose	
52	1001277608	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	
53	1001146588	1	Strap	
54	1001256879	1	Bracket	
55	1321283	2	Clamp	
56	1321716	3	Clamp	
57	4240099	AR	Tie-Strap (Not Shown)	

FIGURE 3-54. DEUTZ DIESEL TCD2.9L CHINA IV ENGINE INSTALLATION (CHINESE SPEC)

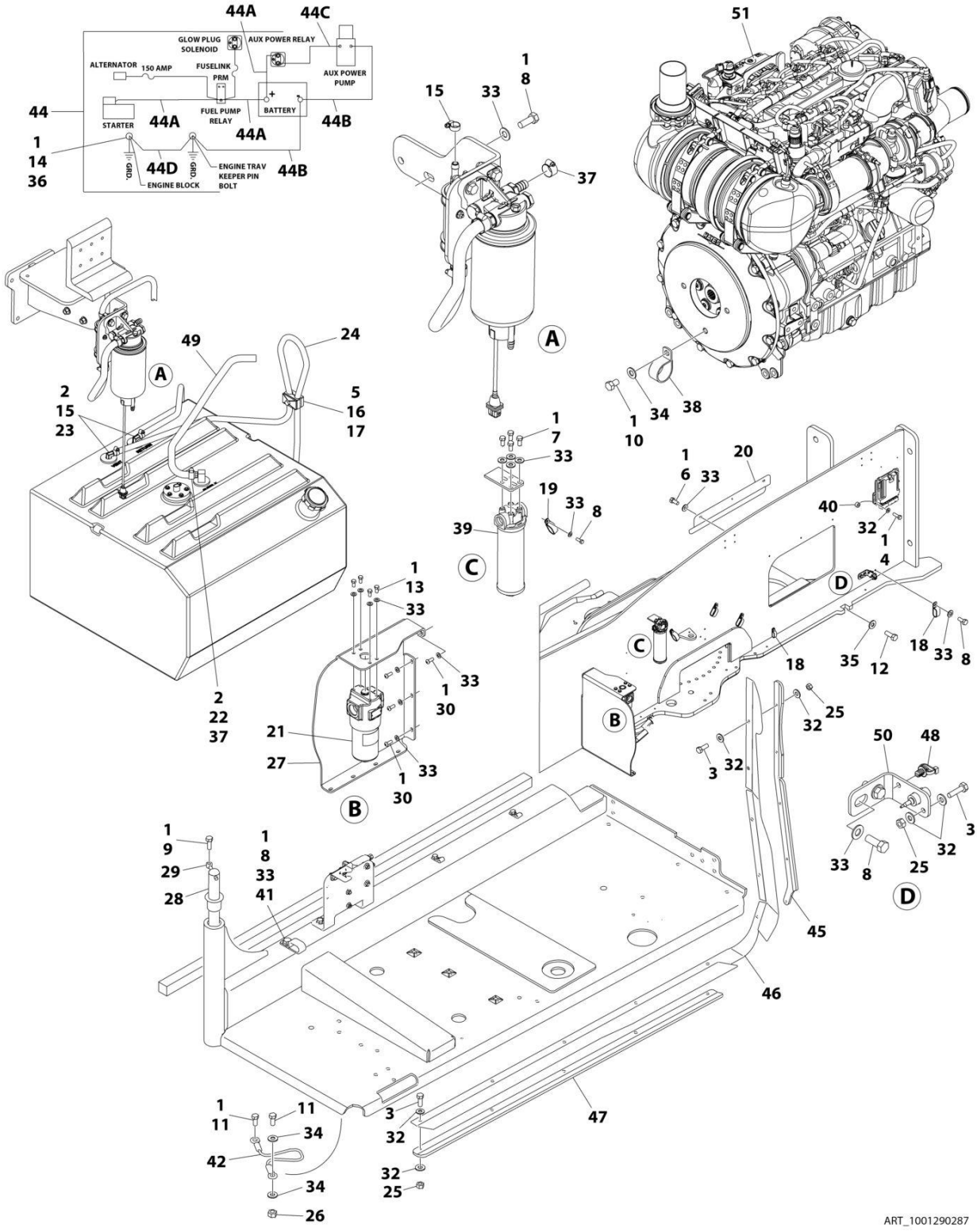


FIGURE 3-54. DEUTZ DIESEL TCD2.9L CHINA IV ENGINE INSTALLATION (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001290287	Ref	DEUTZ DIESEL TCD2.9L CHINA IV ENGINE INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant, Pipe	
3	0641408	11	Bolt 1/4 x 1	
4	0641410	4	Bolt 1/4 x 1-1/4	
5	0641511	1	Bolt 5/16 x 1-3/8	
6	0641605	3	Bolt 3/8 x 5/8	
7	0641606	4	Bolt 3/8 x 3/4	
8	0641608	10	Bolt 3/8 x 1	
9	0641610	1	Bolt 3/8 x 1-1/4	
10	0641806	1	Bolt 1/2 x 3/4	
11	0641808	2	Bolt 1/2 x 1	
12	0642010	1	Bolt 5/8 x 1-1/4	
13	0651606	4	Bolt 3/8 x 3/4	
14	0761210	1	Bolt M12 x 20	
15	1320022	3	Clamp	
16	1320187	1	Clamp	
17	1320190	1	Clamp	
18	1321283	2	Clamp	
19	1321716	3	Clamp	
20	1671121	1	Cover	
21	2120218	1	Filter	
21	2120219	1	Element, Filter	
21	70001344	1	O-Ring, Bowl	
21	70006137	1	Seal Kit - Includes O-Ring (Element), O-Ring (Bowl), Back-up Ring (Bowl), Seal Ring (Indicator) and O-Ring (Indicator)	
22	2180832	1	Fitting	
23	2220313	2	Fitting, 90	
24	2750532	5 ft/2 m	Hose	
25	3311405	11	Nut	
26	3311805	1	Nut	
27	3380723	1	Panel	
28	3422446	1	Pin	
29	3841143	1	Pin, Keeper	
30	3900316	5	Bolt 3/8 x 1	
31	4240099	AR	Tie-Strap (Not Shown)	
32	4711400	26	Washer 1/4	
33	4711600	26	Washer 3/8	
34	4711800	3	Washer 1/2	
35	4752000	1	Washer 5/8	
36	4812100	1	Washer M12	
37	8405006	2	Clamp	
38	90028660	1	Clamp	
39	1001108617	1	Hydraulic Pressure Filter Assembly	
39	70002231	1	Element, Filter	
40	1001110425	4	Spacer	
41	1001116792	1	Clamp	
42	1001131542	1	Cable	
43	1001138491	1	Harness, Deutz Fuel (Not Shown) (See Separate Breakdown in ELECTRICAL Section)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	1001142610	1	Battery Cable Kit	
44A	7027046	1	Cable, Battery (Red) (Battery + to Relays and Starter)	
44A	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available)	
44B	7027047	1	Cable, Battery (Black) (Battery - to Tray Pivot Grd)	
44B	See Note	NSS	Boot, Ring Terminal (Black) (Note: Not Available)	
44C	7027048	1	Cable (Red) (Aux Relay to Aux Pump)	
44C	See Note	NSS	Boot, Ring Terminal (Red) (Note: Not Available)	
44D	7027049	1	Cable, Battery (Black) (Engine to Tray Pivot Grd)	
45	1001145089	1	Clamp	
46	1001145560	1	Panel	
47	1001145842	1	Plate	
48	1001146588	1	Tie-Strap, Fir Tree	
49	1001154405	2 ft/1 m	Hose	
50	1001256879	1	Bracket	
51	1001282199	1	Engine Sub-Assembly (See Separate Breakdown in this Section)	

FIGURE 3-55. DEUTZ TCD2.9L (CHINA IV) ENGINE SUB-ASSEMBLY

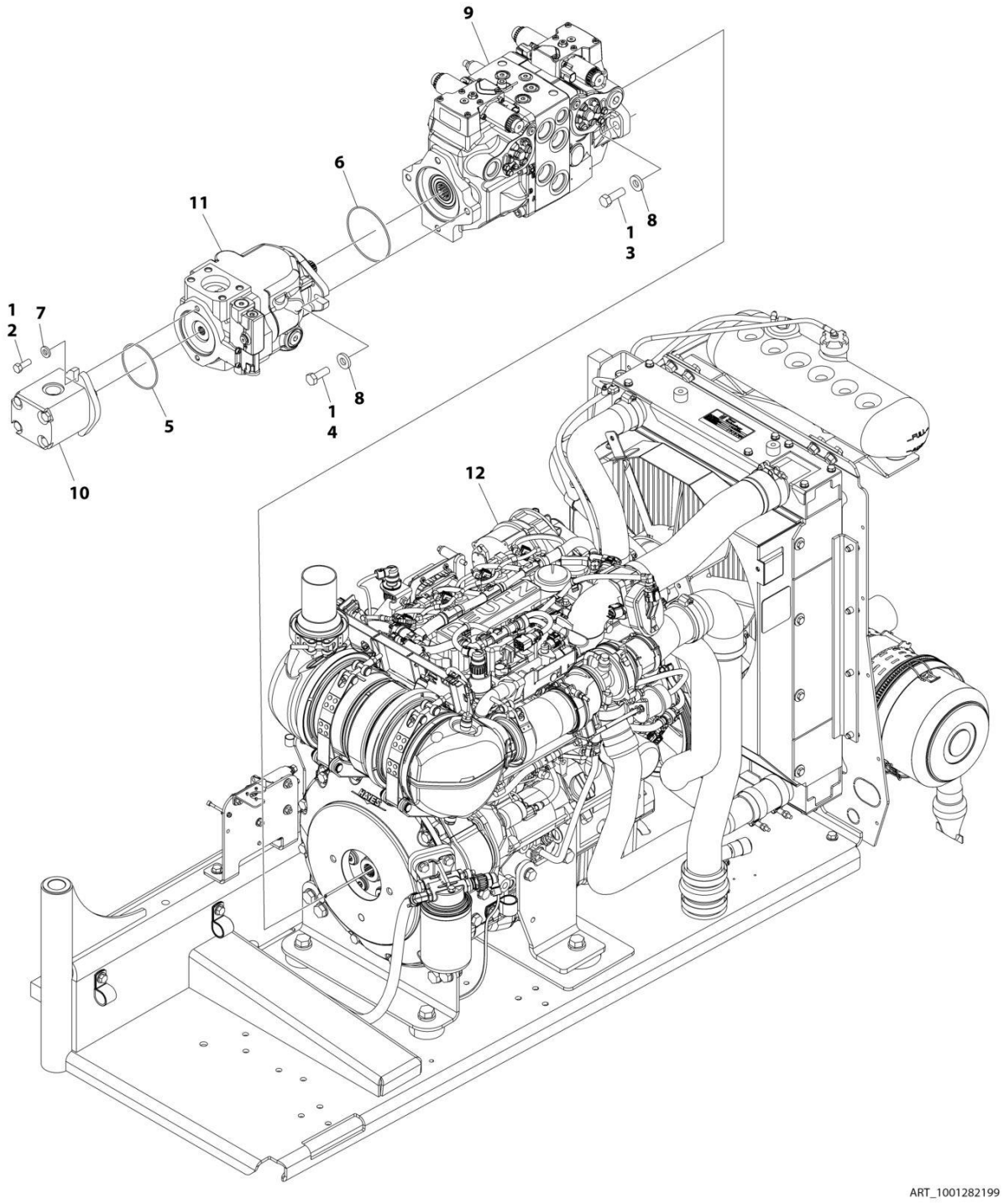


FIGURE 3-55. DEUTZ TCD2.9L (CHINA IV) ENGINE SUB-ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001282199	Ref	SUB-ASSEMBLY - DEUTZ TCD2.9L4 (CHINA IV)	G
1	0100011	AR	Compound, Locking	
2	0641608	2	Bolt 3/8 x 1	
3	0641814	2	Bolt 1/2 x 1-3/4	
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	4	Washer 1/2	
9	1001108616	1	Pump Assembly - Tandem (See Separate Breakdown in this Section)	
10	1001112927	1	Pump Assembly - Gear (See Separate Breakdown in this Section)	
11	1001171095	1	Pump Assembly - Piston (See Separate Breakdown in this Section)	
12	1001282200	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-56. DEUTZ TCD2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY - WITH SAUER PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

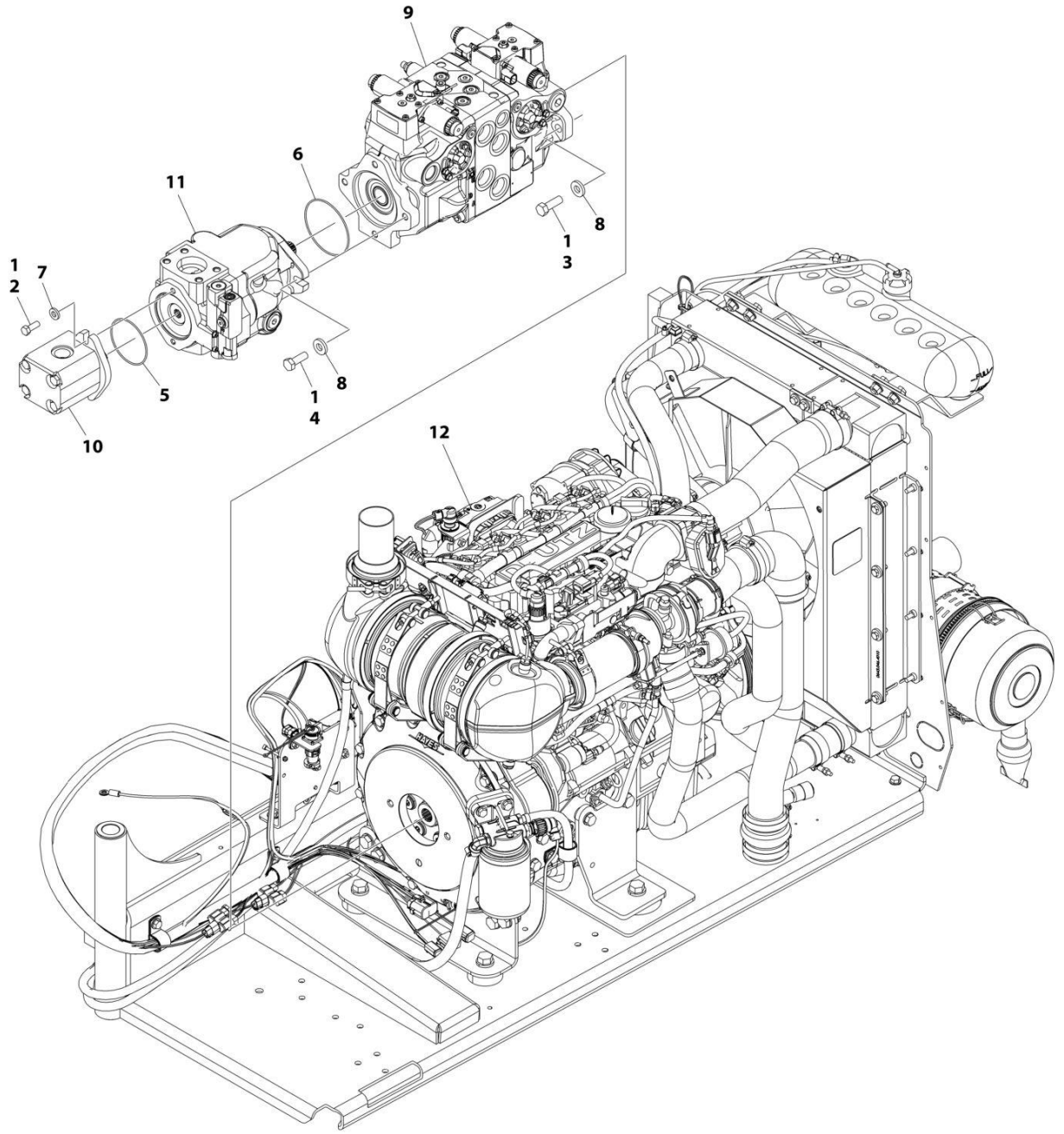
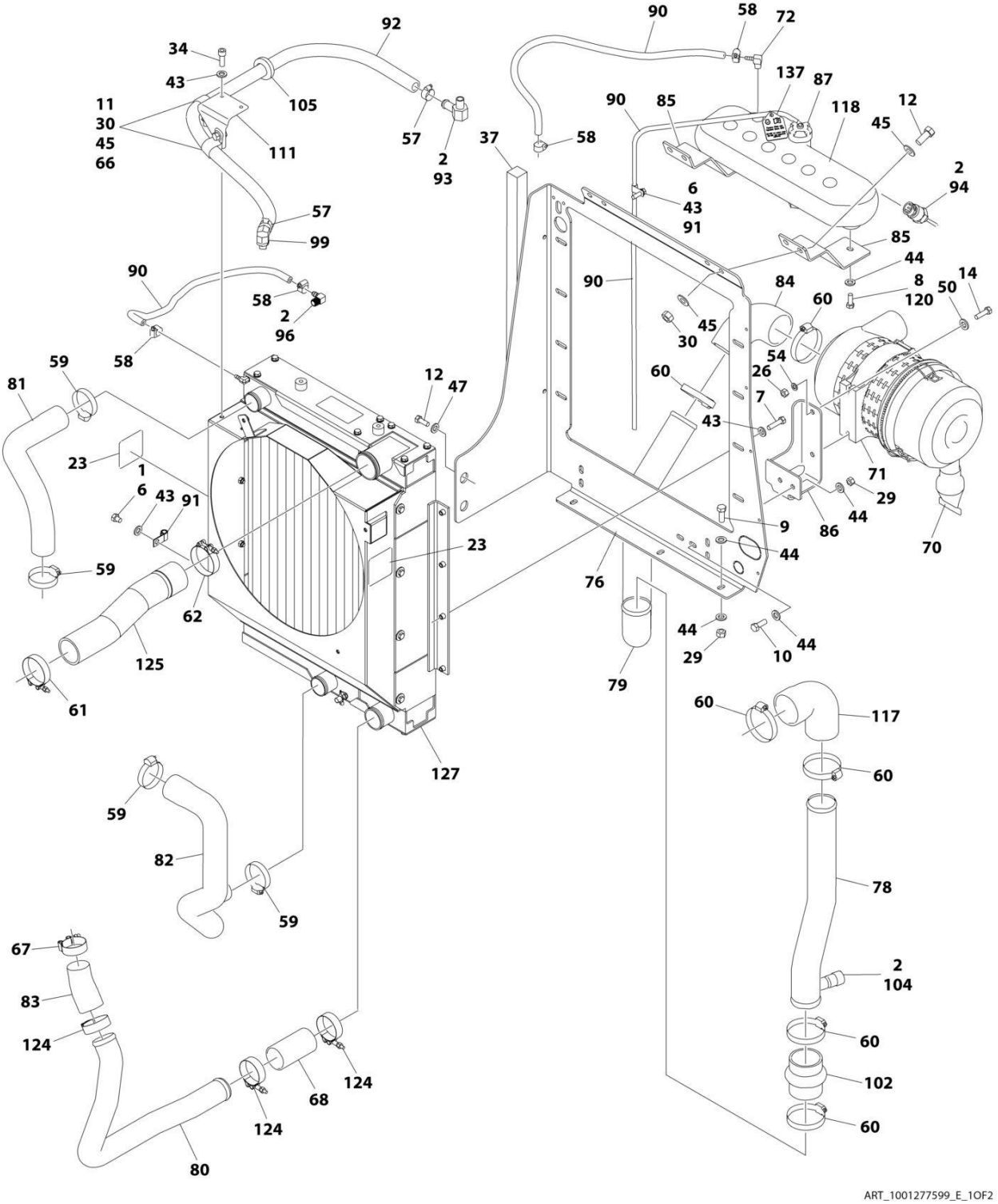
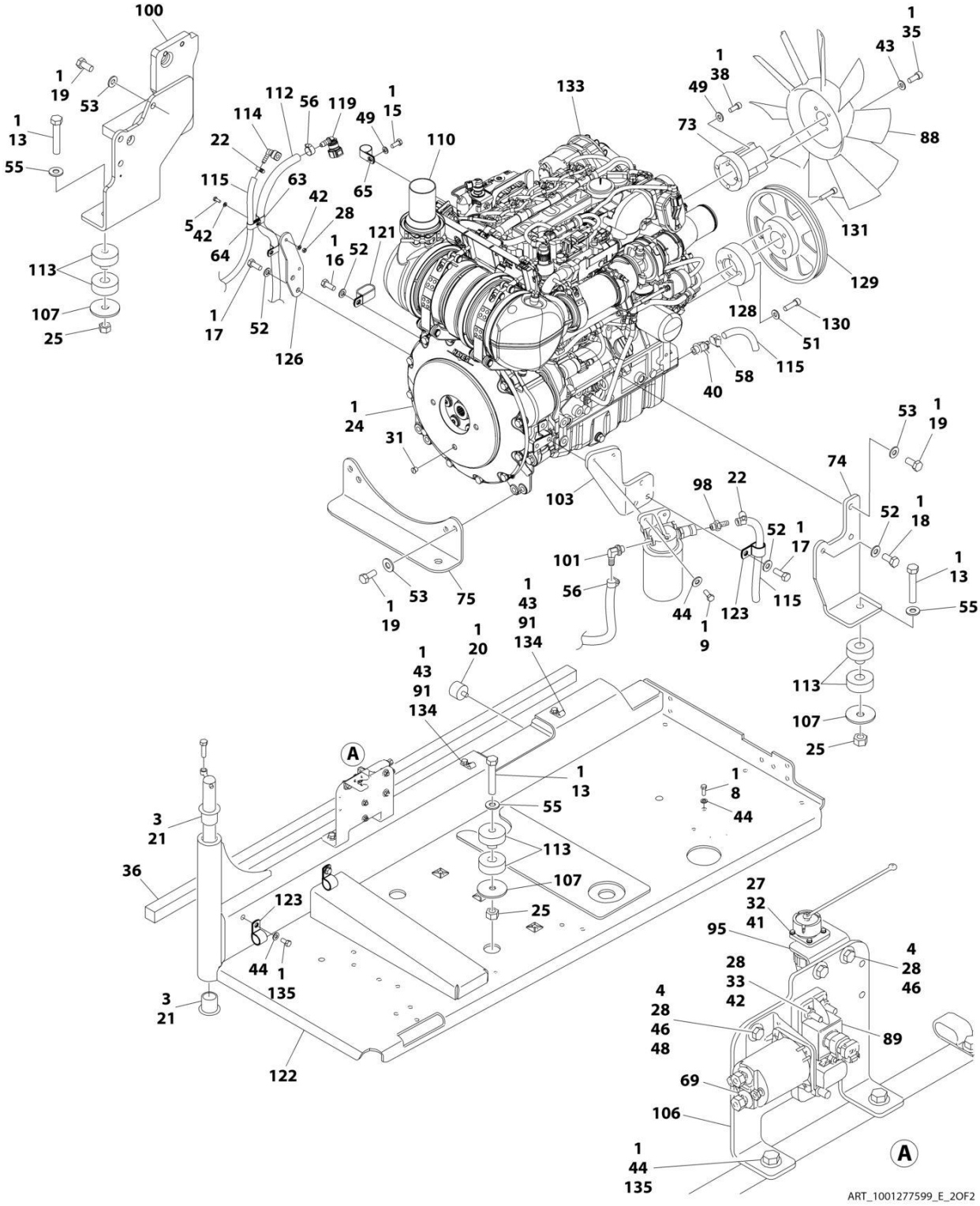


FIGURE 3-56. DEUTZ TCD2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY - WITH SAUER PUMP AND ABS HOODS (WITHOUT COLD WEATHER PLUS PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277608	Ref	DEUTZ TCD2.9L4 (STAGE V) ENGINE SUB-ASSEMBLY	F
1	0100011	AR	Compound, Locking	
2	0641608	2	Bolt 3/8 x 1	
3	0641814	2	Bolt 1/2 x 1-3/4	
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	4	Washer 1/2	
9	1001108616	1	Pump Assembly - Tandem (See Separate Breakdown in this Section)	
10	1001112927	1	Pump Assembly - Gear (See Separate Breakdown in this Section)	
11	1001171095	1	Pump Assembly - Piston (See Separate Breakdown in this Section)	
12	1001277599	1	Engine Assembly (See Separate Breakdown in this Section)	

FIGURE 3-57. DEUTZ TCD2.9L4 (STAGE V) ENGINE ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)

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129
128
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FIGURE 3-57. DEUTZ TCD2.9L4 (STAGE V) ENGINE ASSEMBLY (WITHOUT COLD WEATHER PLUS PACKAGE)

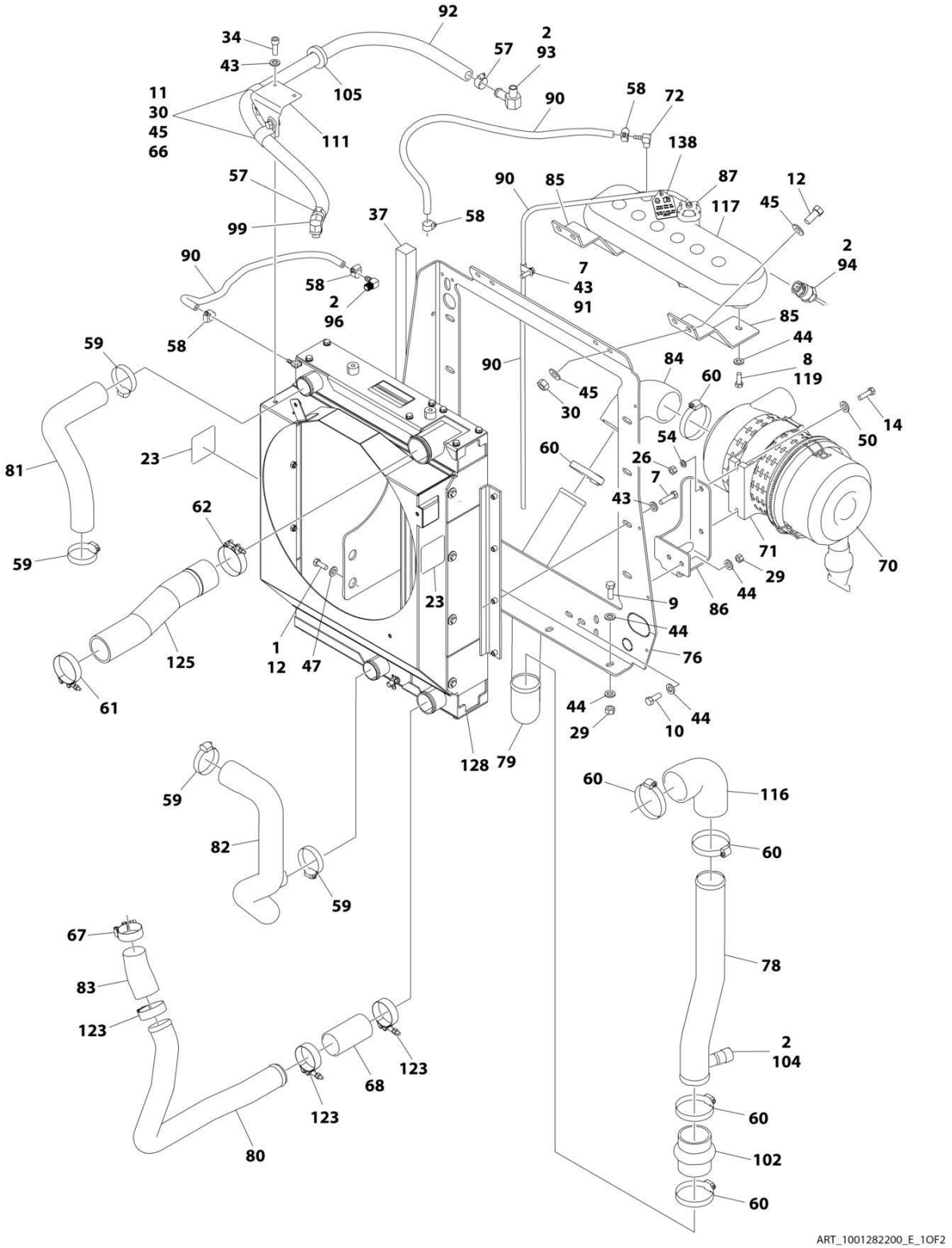
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277599	Ref	DEUTZ TCD2.9L4 (STAGE V) ENGINE ASSEMBLY	E
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant	
3	0100062	AR	Adhesive	
4	0641406	4	Bolt 1/4 x 3/4	
5	0641407	2	Bolt 1/4 x 7/8	
6	0641503	1	Bolt 5/16 x 3/8	
7	0641508	8	Bolt 5/16 x 1-1/4	
8	0641606	3	Bolt 3/8 x 3/4	
9	0641608	9	Bolt 3/8 x 1	
10	0641610	2	Bolt 3/8 x 1-1/4	
11	0641706	2	Bolt 7/16 x 3/4	
12	0641708	6	Bolt 7/16 x 1	
13	0682028	4	Bolt 5/8 x 3-1/2 Grade 8	
14	0700815	2	Bolt M8 x 35	
15	0760808	1	Bolt M8 x 16	
16	0761212	1	Bolt M12 x 25	
17	0761214	5	Bolt M12 x 30	
18	0771212	1	Bolt M12 x 25 Grade 10.9	
19	0771414	9	Bolt M14 x 30 Grade 10.9	
20	0940070	1	Bumper	
21	0961986	2	Bushing, Flanged	
22	1320022	2	Clamp	
23	1703162	2	Decal - Fan	
24	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
25	3272001	4	Nut 5/8 Grade 8	
26	3290801	2	Nut M8	
27	3310401	3	Nut #4	
28	3311405	7	Nut, Lock 1/4	
29	3311605	9	Nut, Lock 3/8	
30	3311705	5	Nut, Lock 7/16	
31	3520054	1	Plug, Hole	
32	3910408	3	Screw #4 x 1/2	
33	3931432	1	Capscrew 1/4 x 2	
34	3931508	2	Capscrew 5/16 x 1/2	
35	3931512	4	Capscrew 5/16 x 3/4	
36	3960543	1	Seal	
37	3960544	1	Seal	
38	4031914	4	Bolt M8 x 50	
39	4240099	AR	Tie-Strap (Not Shown)	
40	4640751	1	Valve, Oil Drain	
41	4710400	3	Washer #4	
42	4711400	5	Washer 1/4	
43	4711500	17	Washer 5/16	
44	4711600	27	Washer 3/8	
45	4711700	10	Washer 7/16	
46	4751400	8	Washer 1/4	
47	4751700	2	Washer 7/16	
48	4791400	2	Starwasher 1/4	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	4811900	5	Washer M8	
50	4811902	2	Washer M8	
51	4812000	4	Washer M10	
52	4812100	7	Washer M12	
53	4812200	9	Washer M14	
54	4831900	2	Washer, Lock M8	
55	4892000	4	Washer 5/8	
56	8405006	2	Clamp	
57	8405007	2	Clamp	
58	8405009	5	Clamp	
59	8405201	4	Clamp	
60	8405204	6	Clamp	
61	8405212	1	Clamp	
62	8405213	1	Clamp	
63	8406102	2	Clip	
64	8406112	1	Clip	
65	8406201	1	Clip	
66	8406302	2	Clamp	
67	8410014	1	Clamp	
68	91563070	1	Coupling, Rubber	
69	1001117308	1	Relay	
70	1001133633	1	Air Cleaner Assembly	
70	70024190	1	Element, Air Filter	
71	1001133634	1	Clamp	
72	1001134488	1	Fitting, 90 Barbed	
73	1001135138	1	Spacer, Fan	
74	1001135560	1	Support, Engine	
75	1001135562	1	Support, Engine - Rear	
76	1001135680	1	Support, Radiator	
77	1001135779	1	Cable, Alternator Positive (Not Shown)	
78	1001135901	1	Pipe, Air Intake	
79	1001135903	1	Pipe, Air Intake	
80	1001135913	1	Pipe, Turbo to Air Cleaner	
81	1001135924	1	Hose, Radiator (Upper)	
82	1001135926	1	Pipe, Radiator (Lower)	
83	1001135943	1	Coupling, Rubber	
84	1001135946	1	Elbow, Rubber	
85	1001136626	2	Bracket	
86	1001136665	1	Bracket	
87	1001136834	1	Cap, Tank	
88	1001137276	1	Fan	
89	1001138228	1	Module, Power	
89	70023592	1	Fuse 20Amp (Switched Output)	
89	70023593	1	Fuse 30Amp (Battery Output)	
90	1001138248	9 ft /3 m	Tubing	
91	1001138253	5	Clamp	
92	1001138524	1	Hose	
93	1001138559	1	Fitting, 90	
94	1001138827	1	Sensor, Coolant Level	
95	1001139240	1	Bracket	
96	1001140564	1	Fitting, 90 Barbed	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
97	1001141304	1	Wire, Glow Plug (Not Shown)	
98	1001141717	1	Fitting, Straight	
99	1001141719	1	Fitting, 90 Barbed	
100	1001283008	1	Support, Engine	
101	1001142501	1	Fitting, 90 Barbed	
102	1001142637	1	Hose, Hump	
103	1001142685	1	Bracket	
104	1001143390	1	Indicator, Air Filter Service	
105	1001144089	1	Grommet	
106	1001145154	1	Plate, Mounting	
107	1001146219	4	Washer Special	
108	1001146588	AR	Tie-Strap (Not Shown)	
109	1001148843	1	Harness, Fuel Filter (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
110	1001153024	1	Pipe, Exhaust	
111	1001153387	1	Plate	
112	1001154405	5 ft /2 m	Hose	
113	1001155575	4	Mount, Motor	
114	1001155823	1	Coupling	
115	1001165035	31 ft /10 m	Hose	
116	1001165101	1	Fuel Pump/Bracket Assembly (Not Shown - See Separate breakdown in this Section)	
117	1001165820	1	Pipe, Elbow	
118	1001166393	1	Tank, Surge	
119	1001170982	1	Adapter	
120	1001180620	AR	Adhesive	
121	1001181899	1	Clamp	
122	1001191272	1	Tray	
123	1001191620	3	Clamp	
124	1001208299	3	Clamp	
125	1001233492	1	Hose	
126	1001235952	1	Bracket	
127	1001256864	1	Radiator	
128	1001258800	1	Spacer, Pulley	
129	1001260432	1	Pulley	
130	1001261045	4	Capscrew M10 x 45 Class 10.9	
131	1001261085	4	Capscrew M10 x 85 Class 10.9	
132	1001276646	1	Harness, Engine (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
133	1001277593	1	Engine, Deutz TCD2.9L4 (Stage V) (See Separate Breakdown in ELECTRICAL Section)	
134	0641510	2	Bolt 5/16 x 1-1/4	
135	0641612	4	Bolt 3/8 x 1-1/2	
136	4240032	AR	Tie-Strap (Not Shown)	
137	1001291401	1	Tag, Coolant	

FIGURE 3-58. DEUTZ TCD2.9L4 (CHINA IV) ENGINE ASSEMBLY



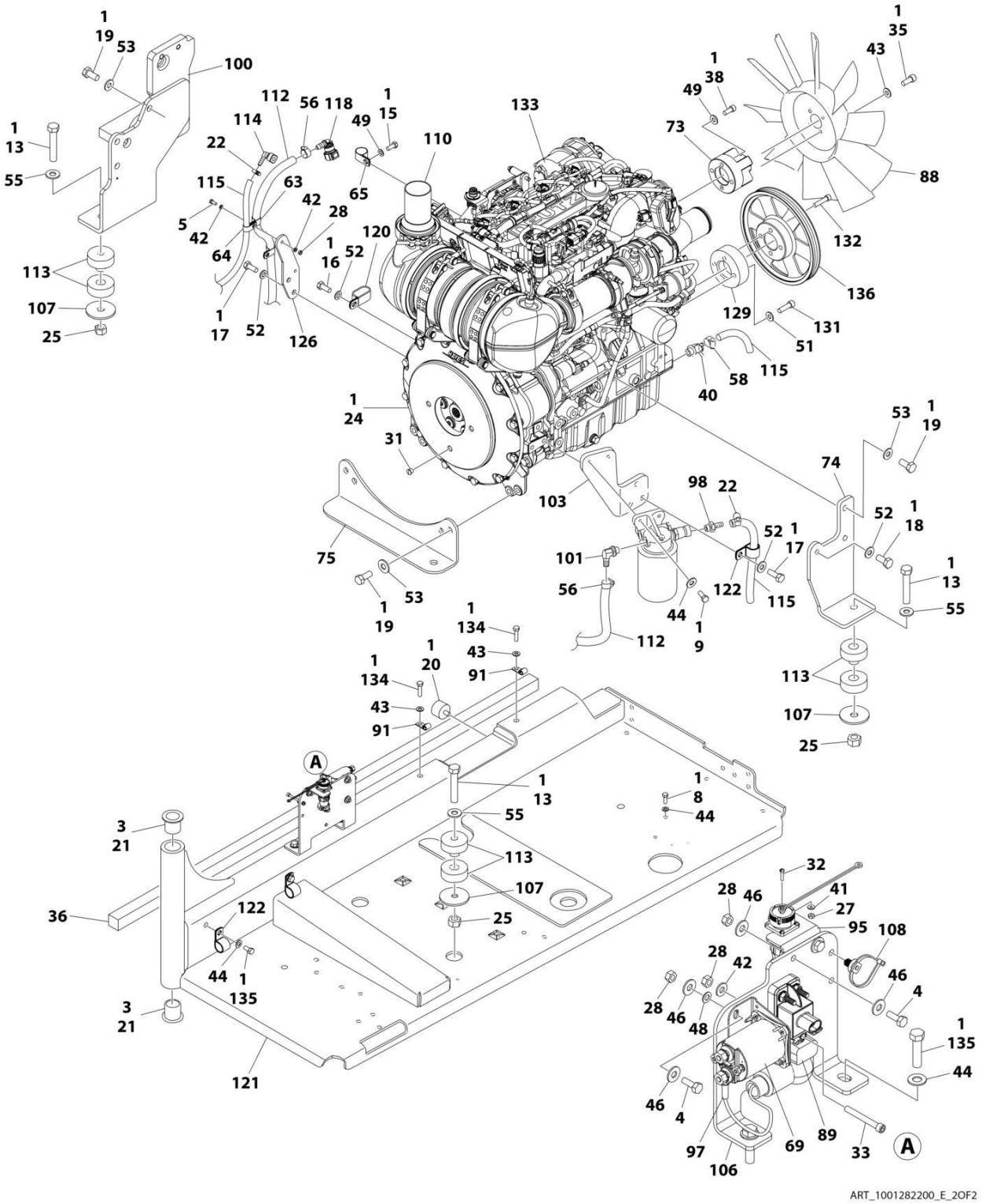

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FIGURE 3-58. DEUTZ TCD2.9L4 (CHINA IV) ENGINE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001282200	Ref	ENGINE ASSEMBLY - DEUTZ TCD2.9L4 (CHINA IV)	E
1	0100011	AR	Compound, Locking	
2	0100020	AR	Compound, Locking	
3	0100062	AR	Compound, Locking	
4	0641406	4	Bolt 1/4 x 3/4	
5	0641407	2	Bolt 1/4 x 7/8	
6	0641503	1	Bolt 5/16 x 3/8	
7	0641508	8	Bolt 5/16 x 1-1/4	
8	0641606	3	Bolt 3/8 x 3/4	
9	0641608	9	Bolt 3/8 x 1	
10	0641610	2	Bolt 3/8 x 1-1/4	
11	0641706	2	Bolt 7/16 x 3/4	
12	0641708	6	Bolt 7/16 x 1	
13	0682028	4	Bolt 5/8 x 3-1/2 Grade 8	
14	0700815	2	Bolt M8 x 35	
15	0760808	1	Bolt M8 x 16	
16	0761212	1	Bolt M12 x 25	
17	0761214	5	Bolt M12 x 30	
18	0771212	1	Bolt M12 x 25 Class 10.9	
19	0771414	9	Bolt M14 x 30 Class 10.9	
20	0940070	1	Bumper	
21	0961986	2	Bushing, Flanged	
22	1320022	2	Clamp	
23	1703162	2	Decal - Fan	
24	2902065	1	Pump Coupling Kit (See Separate Breakdown in this Section)	
25	3272001	4	Nut 5/8 Grade 8	
26	3290801	2	Nut M8	
27	3310401	3	Nut #4	
28	3311405	7	Nut 1/4	
29	3311605	9	Nut 3/8	
30	3311705	5	Nut 7/16	
31	3520054	1	Plug, Hole	
32	3910408	3	Screw #4 x 1/2	
33	3931432	1	Capscrew 1/4 x 2	
34	3931508	2	Capscrew 5/16 x 1/2	
35	3931512	4	Capscrew 5/16 x 3/4	
36	3960543	1	Seal	
37	3960544	1	Seal	
38	4031912	4	Bolt M8 x 40	
39	4240099	AR	Tie-Strap (Not Shown)	
40	4640751	1	Valve, Oil Drain	
41	4710400	3	Washer #4	
42	4711400	5	Washer 1/4	
43	4711500	17	Washer 5/16	
44	4711600	27	Washer 3/8	
45	4711700	10	Washer 7/16	
46	4751400	8	Washer 1/4	
47	4751700	2	Washer 7/16	
48	4791400	2	Starwasher 1/4	
49	4811900	5	Washer M8	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	4811902	2	Washer M8	
51	4812000	4	Washer M10	
52	4812100	7	Washer M12	
53	4812200	9	Washer M14	
54	4831900	2	Washer M8	
55	4892000	4	Washer 5/8	
56	8405006	2	Clamp	
57	8405007	2	Clamp	
58	8405009	5	Clamp	
59	8405201	4	Clamp	
60	8405204	6	Clamp	
61	8405212	1	Clamp	
62	8405213	1	Clamp	
63	8406102	2	Clip	
64	8406112	1	Clip	
65	8406201	1	Clip	
66	8406302	2	Clamp	
67	8410014	1	Clamp	
68	91563070	1	Coupling, Rubber	
69	1001117308	1	Relay	
70	1001133633	1	Air Cleaner Assembly	
70	70024190	1	Element, Air Filter	
71	1001133634	1	Clamp	
72	1001134488	1	Fitting, 90 Barbed	
73	1001289964	1	Spacer, Fan	
74	1001135560	1	Support, Engine	
75	1001135562	1	Support, Engine - Rear	
76	1001135680	1	Support, Radiator	
77	1001135779	1	Cable, Alternator Positive (Not Shown)	
78	1001135901	1	Pipe, Air Intake	
79	1001135903	1	Pipe, Air Intake	
80	1001135913	1	Pipe, Turbo to Air Cleaner	
81	1001135924	1	Hose, Radiator (Upper)	
82	1001135926	1	Pipe, Radiator (Lower)	
83	1001135943	1	Coupling, Rubber	
84	1001135946	1	Elbow, Rubber	
85	1001136626	2	Bracket	
86	1001136665	1	Bracket	
87	1001136834	1	Cap, Tank	
88	1001137276	1	Fan	
89	1001138228	1	Module, Power	
89	70023592	1	Fuse 20Amp (Switched Output)	
89	70023593	1	Fuse 30Amp (Battery Output)	
90	1001138248	9 ft /3 m	Tubing	
91	1001138253	5	Clamp	
92	1001138524	1	Hose	
93	1001138559	1	Fitting, 90	
94	1001138827	1	Sensor, Coolant Level	
95	1001139240	1	Bracket	
96	1001140564	1	Fitting, 90 Barbed	
97	1001141304	1	Wire, Glow Plug	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
98	1001141717	1	Fitting, Straight	
99	1001141719	1	Fitting, 90 Barbed	
100	1001283008	1	Support, Engine	
101	1001142501	1	Fitting, 90 Barbed	
102	1001142637	1	Hose, Hump	
103	1001142685	1	Bracket	
104	1001143390	1	Indicator, Air Filter Service	
105	1001144089	1	Grommet	
106	1001145154	1	Plate, Mounting	
107	1001146219	4	Washer Special	
108	1001146588	1	Strap	
109	1001148843	1	Harness, Fuel Filter (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
110	1001153024	1	Pipe, Exhaust	
111	1001153387	1	Plate	
112	1001154405	5 ft /2 m	Hose	
113	1001155575	4	Mount, Motor	
114	1001155823	1	Coupling	
115	1001165035	31 ft /10 m	Hose	
116	1001165820	1	Pipe, Elbow	
117	1001166393	1	Tank, Surge	
118	1001170982	1	Adapter	
119	1001180620	AR	Adhesive	
120	1001181899	1	Clamp	
121	1001191272	1	Tray	
122	1001191620	3	Clamp	
123	1001208299	3	Clamp	
124	1001227606	1	Bracket	
125	1001233492	1	Hose	
126	1001235952	1	Bracket	
127	1001276646	1	Harness, Engine (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
128	1001256864	1	Radiator	
129	1001258800	1	Spacer, Pulley	
131	1001261045	4	Capscrew M10	
132	1001261085	4	Capscrew M10	
133	1001292604	1	Deutz TCD2.9L4 (CHINA IV) Engine Components (See Separate Breakdown in this Section)	
134	0641510	2	Bolt 5/16 x 1-1/4	
135	0641612	4	Bolt 3/8 x 1-1/2	
136	1001281192	1	Pulley	
137	4240032	AR	Tie-Strap (Not Shown)	
138	1001291401	1	Tag, Coolant	

FIGURE 3-59. DEUTZ TCD2.9L4 (CHINA IV) ENGINE COMPONENTS

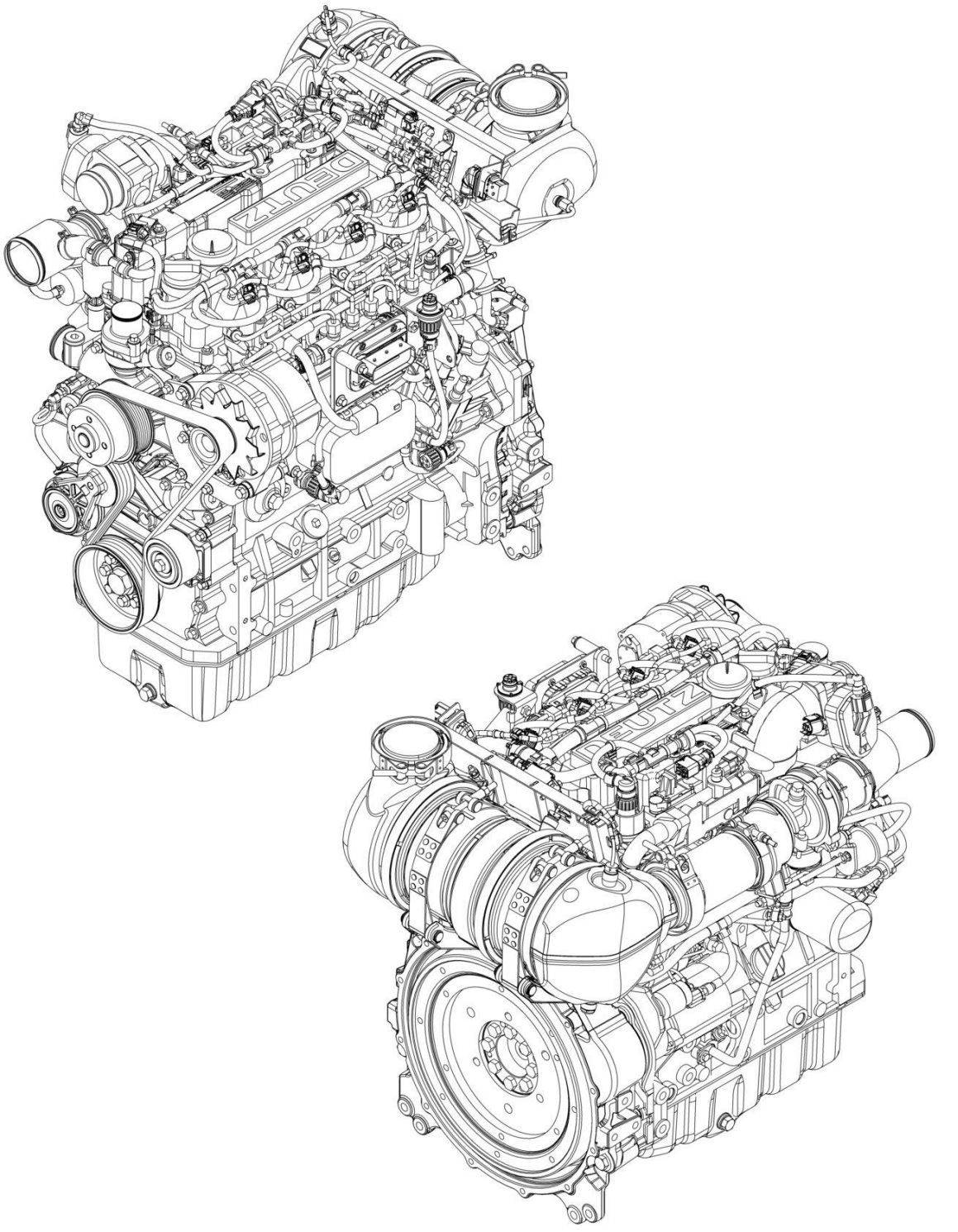
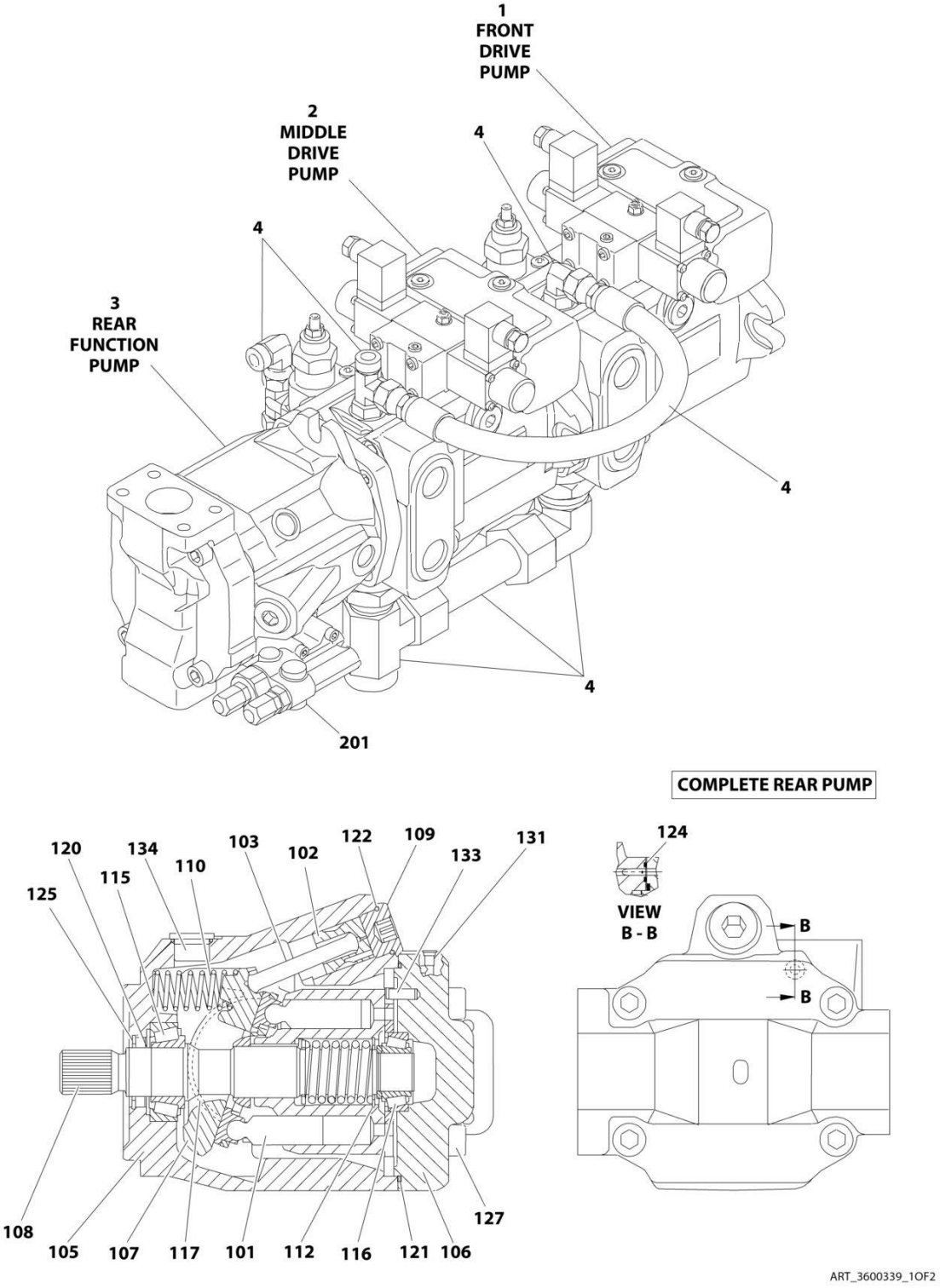


FIGURE 3-59. DEUTZ TCD2.9L4 (CHINA IV) ENGINE COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001292604	Ref	DEUTZ TCD2.9L4 (CHINA IV) ENGINE	A
	See Note	Ref	Note: Additional components may be available. Contact JLG Customer Service for more details.	
		Ref	**AIR INTAKE COMPONENTS**	
	70008604	1	Pipe, Air Intake (Includes Clips)	
	70008608	1	Adapter, Air Intake Pipe	
	70008537	1	Valve, Throttle (Includes Gasket)	
	70008432	1	Manifold, Air Charge	
		Ref	**COOLING SYSTEM COMPONENTS**	
	1001291868	1	Pump, Coolant (Includes Gasket & Seal)	
	70031055	1	O-Ring, Coolant Pump	
	70007325	1	Gasket	
	70007603	1	Thermostat	
	70005184	1	O-Ring (Between Thermostat & Cover)	
	70005931	1	Gasket (Between Thermostat Cover & Pump)	
	70025142	1	Cover, Thermostat	
		Ref	**ELECTRICAL SYSTEM COMPONENTS**	
	70024513	1	Sensor, Primary Fuel Filter	
	70031144	1	Starter	
	70031142	1	Generator/Alternator (Includes Regulator)	
	70031143	1	Regulator, Voltage	
	70008558	1	Harness, Engine	
	1001211556	1	SENSOR,AIR AMBIENT	
	70028540	1	Sender, Temperature (Cylinder Head)	
	70024504	1	Sensor, Pressure (at Secondary Fuel Filter & Engine Block)	
	70026210	2	Sensor, Speed (End of Block & Front Cover)	
	70029407	1	Sensor, Pressure (Air Intake Manifold) (Round)	
	70024507	1	Sensor, Pressure (Air Intake Manifold) (Rectangular)	
	70000345	4	Plug, Glow	
		Ref	**EXHAUST SYSTEM COMPONENTS**	
	70025164	1	Gasket, Exhaust Manifold to Head	
	70025130	8	Bolt (Holds Exhaust Manifold to Head)	
	70029557	1	Gasket, Exhaust (Between Exhaust Manifold & First Exhaust Pipe)	
	70007354	1	Gasket, Exhaust (Between First Exhaust Pipe and beyond)	
	70031138	1	Valve, EGR	
	70007326	1	Gasket (Between EGR Valve & EGR Module)	
	70007328	1	Turbocharger	
	70004504	1	Compensator	
	70030097	1	Clamp, Exhaust (Compensator Front)	
	70030099	2	Clamp, Exhaust (Compensator to Muffler)	
	70025242	1	Gasket (Compensator)	
	70008564	1	Catalyst	
	70029517	2	Clamp (Catalyst)	
	70029520	2	Gasket (Catalyst)	
	70024505	1	Sender, Temperature (Catalyst Inlet)	
	70029409	1	Sender, Temperature (Catalyst Outlet)	
	70008431	1	Sensor, Pressure (Catalyst)	
		Ref	**FUEL SYSTEM COMPONENTS**	
	1001225430	1	Element, Fuel Filter (Primary)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225432	1	Element, Fuel Filter (Secondary)	
	70030381	1	Pump, High Pressure (Includes Mounitng O-Ring, Overflow Valve & Volume Control Valve)	
	70025152	1	O-Ring (Between Pump AND Spacer)	
	70004505	1	Valve, Overflow	
	70004508	1	Valve, Volume Control	
	70008607	4	Injector, Fuel (Includes O-Ring, Clamp & Sealing Washer)	
	70008422	1	Pump, Fuel Supply (Includes Clamps)	
	70025144	2	Clamp	
		Ref	**GASKETS & SEAL & KITS (Note: Some components listed with main component)**	
	70005938	1	Gasket Kit	
	70024906	1	Gasket, Head	
	70005171	1	Gasket, Valve Cover	
	70002718	1	Seal, Rear Case	
	70004280	1	Seal, Front Case	
	70028185	1	Gasket, Front Cover	
	70005176	1	O-Ring (Between Air Intake Manifold & Mixing Tube)	
	70005177	1	Gasket (Between Air Intake Manifold & Head)	
		Ref	**LUBRICATION SYSTEM COMPONENTS**	
	7016331	1	Filter, Oil	
	70024904	1	Dipstick (Includes O-Ring	
	70024905	1	O-Rng	
	7020465	1	Cap, Filler	
	70005941	2	Plug, Oil Pan	
	70005942	2	Seal, Oil Pan Plug	
	70005172	1	Pump, Oil Lube (Includes O-Ring & Gasket)	
	70025135	1	O-Ring	
	70005173	1	Gasket	
	70031474	1	Cooler, Oil	
	70031388	1	Seal, Oil Cooler	
		Ref	**MECHANICAL COMPONENTS**	
	70001870	1	Flywheel (Includes Ring Gear)	
	7024579	1	Gear, Ring	
	70030359	1	Belt Tensioner	
	70004277	1	Belt, Drive	
	70027432	1	Idler, Drive Belt	

FIGURE 3-60. PUMP ASSEMBLY (REXROTH) (DEUTZ TD2011 ENGINES)



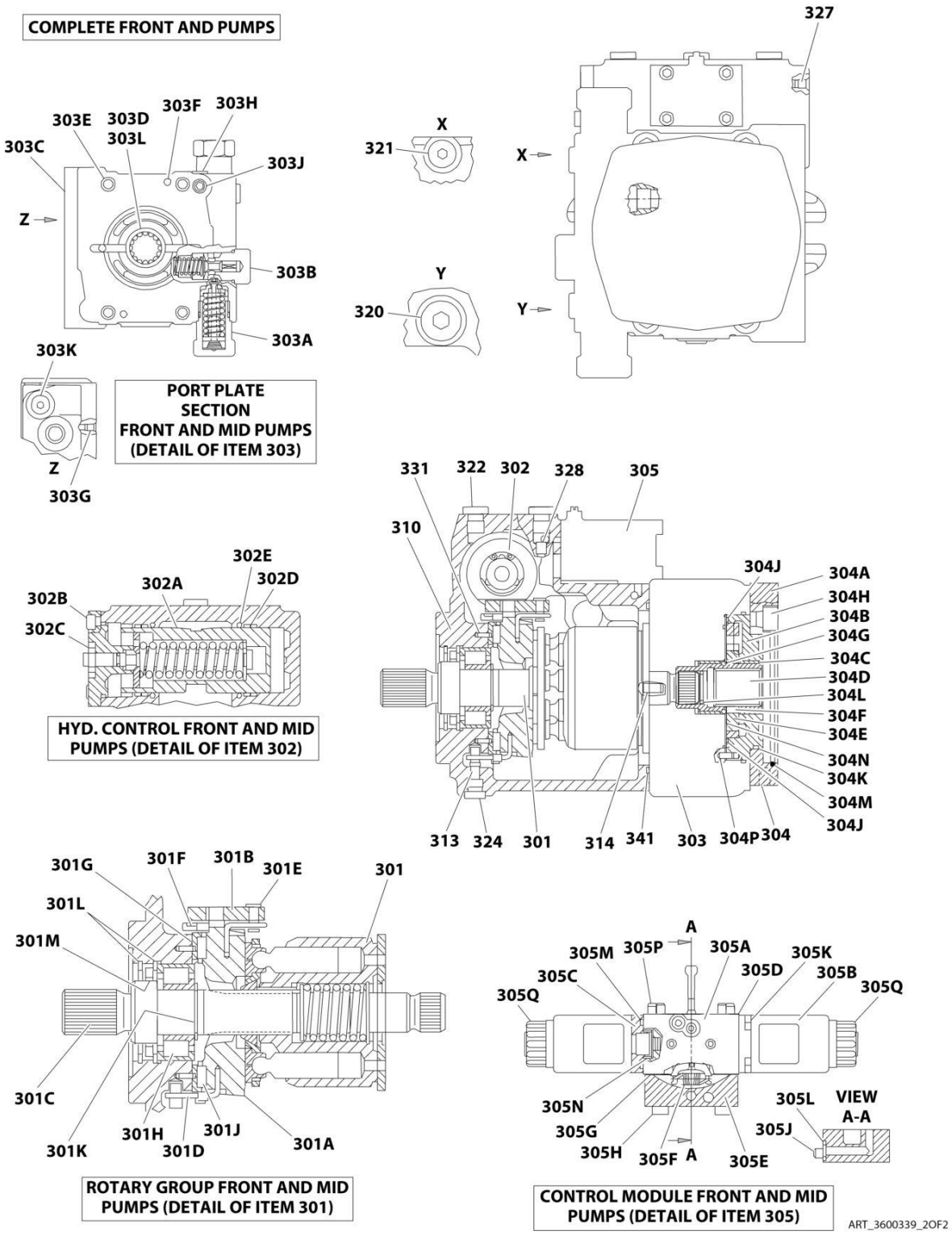

COMPLETE FRONT AND PUMPS
303E
303D
303L
303F
303H
303C
303J
Z
303B
303A
303K
Z
303G
PORT PLATE SECTION FRONT AND MID PUMPS (DETAIL OF ITEM 303)
X
321
Y
320
327
X
Y
331
322
302
328
305
310
304J
304A
304H
304B
304G
304C
304D
304L
304F
304E
304N
304K
304M
304J
313
324
301
314
341
303
304P
304
302E
302D
302A
302B
302C
HYD. CONTROL FRONT AND MID PUMPS (DETAIL OF ITEM 302)
301G
301F
301B
301E
301
301L
301M
301C
301K
301H
301D
301J
301A
ROTARY GROUP FRONT AND MID PUMPS (DETAIL OF ITEM 301)
A
305M
305P
305A
305K
305D
305B
305C
305Q
305Q
305N
305G
305H
305F
A
305E
305L
VIEW A-A
305J
CONTROL MODULE FRONT AND MID PUMPS (DETAIL OF ITEM 305)
ART_3600339_2OF2

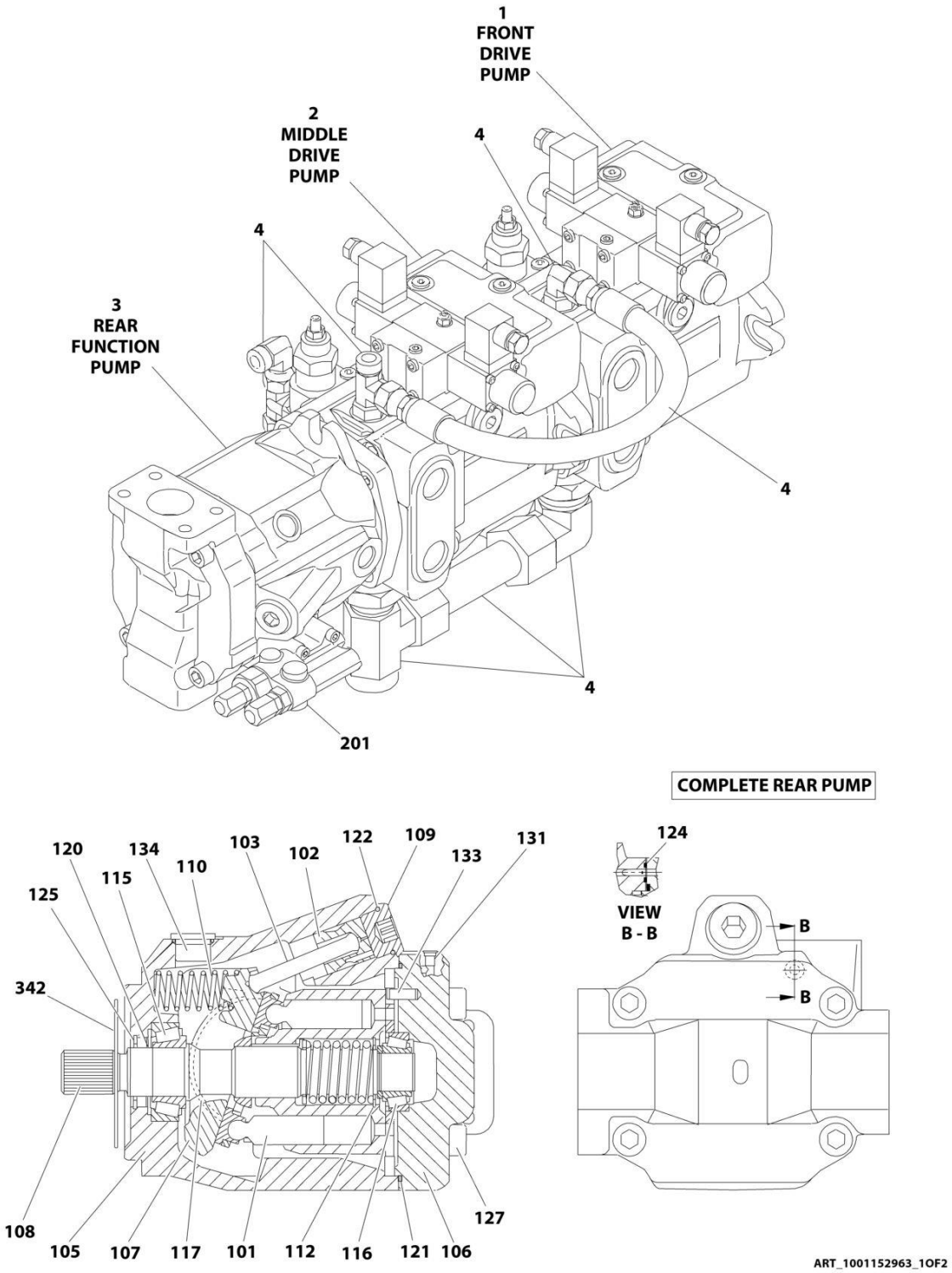
FIGURE 3-60. PUMP ASSEMBLY (REXROTH) (DEUTZ TD2011 ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600339	Ref	PUMP ASSEMBLY (REXROTH) (DEUTZ TD2011 ENGINES)	D
1	7024042	1	Front Drive Pump Assembly (Includes Items 301-341)	
2	7024043	1	Middle Drive Pump Assembly (Includes Items 301-341)	
3	7024044	1	Rear Function Pump Assembly (Includes Items 101-201)	
4	70001952	1	Hydraulic Kit (Includes all Rexroth Supplied Hydraulic Fittings, Hoses and Tubes)	
	7024044	Ref	REAR FUNCTION PUMP ASSEMBLY	
101	7024914	1	Rotary Section	
102	See Note	1	Piston, Control (Note: Not Available - Purchase Complete Assembly)	
103	See Note	1	Rod, Piston (Note: Not Available - Purchase Complete Assembly)	
105	See Note	1	Housing, Pump (Note: Not Available - Purchase Complete Assembly)	
106	See Note	1	Plate, Port (Note: Not Available - Purchase Complete Assembly)	
107	7024915	1	Plate, Swash	
108	7024916	1	Driveshaft	
109	See Note	1	Plug (Note: Not Available for Purchase)	
110	See Note	1	Spring (Note: Not Available for Purchase)	
112	7012709	1	Shim	
115	7024038	1	Bearing, Roller	
116	7012706	1	Bearing, Roller	
117	7024917	2	Shell, Cradle	
120	7024918	1	Seal, Shaft	
121	7024919	1	O-Ring	
122	7024920	1	O-Ring	
124	7024921	1	Seal	
125	7012715	1	V-Ring	
127	See Note	4	Capscrew M12 x 45 Grade 10.9 (Note: Not Available for Purchase)	
131	See Note	1	Plug (Note: Not Available for Purchase)	
133	See Note	1	Pin, Dowel (Note: Not Available for Purchase)	
134	See Note	1	Plug (Note: Not Available for Purchase)	
201	7024913	Ref	Pilot Valve Assembly	
		Ref	Note: Two mounting designs of p/n 7024913 pilot valve exist. Early design uses qty. 3 O-rings. Late design uses qty 1 sealing plate. Seal designs cannot be interchanged. Verify seal design before ordering.	
201	7024922	3	O-Ring (Seals between Pilot Valve and Rear Pump)	
201	70021867	1	Plate, Sealing (Seals between Pilot Valve and Rear Pump)	
		Ref	FRONT DRIVE PUMP ASSEMBLIES	
	7024042	Ref	Front Drive Pump Assembly	
	7024043	Ref	Middle Drive Pump Assembly	
301	7024064	1	Rotary Group	
301A	See Note	NSS	Cradle (Note: Use Item 301)	
301B	See Note	NSS	Ring, Slide (Note: Use Item 301)	
301C	See Note	NSS	Driveshaft (Note: Use Item 301)	
301D	See Note	NSS	Wire (Note: Use Item 301)	
301E	See Note	NSS	Pin, Joint (Note: Use Item 301)	
301F	See Note	NSS	Wire (Note: Use Item 301)	
301G	See Note	NSS	Liner, Bearing (Note: Use Item 301)	
301H	See Note	NSS	Bearing, Roller (Note: Use Item 301)	
301J	See Note	NSS	Cradle Bearing Assembly (Note: Use Item 301)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301K	See Note	NSS	Ring, Retaining (Note: Use Item 301)	
301L	70001968	2	Ring, Retaining	
301M	7024070	1	Seal, Shaft Ring	
302	7024065	1	Control Group - Hydraulic	
302A	See Note	NSS	Piston, Positioning - Complete (Note: Use Item 302)	
302A	7024071	1	O-Ring, Outer Seal	
302A	7024072	1	O-Ring, Stem	
302B	See Note	4	Capscrew M6 x 12 (Note: Not Available - Purchase Locally)	
302C	See Note	NSS	Nut (Note: Use Item 302)	
302D	See Note	NSS	Ring, Guide (Note: Use Item 302)	
302E	See Note	NSS	Seal, O-Ring (Note: Use Item 302)	
303	7024911	1	Port Plate Group	
303A	7024073	2	Cartridge, Relief Valve (High Pressure)	
303A	7024075	1	O-Ring	
303A	7024076	1	Ring, Back-up	
303B		Ref	Cartridge Options:	
303B	7024097	1	Front Pump Cartridge (Lock Valve with Orifice) Note: Sold as an Assembly except Outer Seal.	
303B	7024075	1	O-Ring	
303B	7023881	1	Middle Pump Cartridge (Pressure Relief Valve) Note: Sold as an Assembly except Outer Seal.	
303B	7024077	1	O-Ring	
303C	See Note	NSS	Plate, Port (Note: Use Item 303)	
303D	See Note	NSS	Bushing, Bearing (Note: Use Item 303)	
303E	See Note	4	Capscrew M12 x 70 Grade10.9 (Note: Not Available - Purchase Locally)	
303F	See Note	NSS	Pin, Dowel (Note: Use Item 303)	
303G	See Note	NSS	Pin, Break-Off (Note: Use Item 303)	
303H	See Note	1	Screw, Locking M10 x 1 (Note: Not Available - Purchase Locally)	
303J	7024908	2	O-Ring	
303K	See Note	2	Screw, Locking 7/16 (Note: Not Available - Purchase Locally)	
303L	See Note	NSS	Bearing, Roller (Note: Use Item 303)	
304	7024906	1	Internal Gear Pump	
304A	See Note	NSS	Flange, Intermediate (Note: Use Item 304)	
304B	See Note	NSS	IZP-Housing (Note: Use Item 304)	
304C	See Note	NSS	Bushing, Bearing (Note: Use Item 304)	
304D	See Note	NSS	Coupling, Driveshaft Through (Note: Use Item 304)	
304E	See Note	NSS	Gear Set (Note: Use Item 304)	
304F	See Note	NSS	Key, Driveshaft (Note: Use Item 304)	
304G	See Note	NSS	Ring, Retaining (Note: Use Item 304)	
304H	See Note	4	Capscrew M10 x 20 (Note: Not Available - Purchase Locally)	
304J	7024080	2	Seal	
304K	7024081	1	O-Ring	
304L	See Note	NSS	Ring, Retaining (Note: Use Item 304)	
304M	See Note	NSS	O-Ring (Note: Use Item 304)	
304N	7024005	1	Plate, Wear	
304P	See Note	NSS	Pin, Cylinder (Note: Use Item 304)	
305	7024068	1	Control Module	
305A	7024084	1	Valve Body, Lever and Internal Components	
305B	7024083	2	Coil, Solenoid	
305C	See Note	NSS	Spacer, Coil (Note: Use Item 305)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
305D	7024085	1	Gasket	
305E	See Note	NSS	Cover (Note: Use Item 305)	
305F	See Note	NSS	Spring, Draw (Note: Use Item 305)	
305G	See Note	NSS	Gasket (Note: Use Item 305)	
305H	See Note	4	Capscrew M6 x 65 (Note: Not Available - Purchase Locally)	
305J	See Note	1	Capscrew M6 x 45 (Note: Not Available - Purchase Locally)	
305K	See Note	8	Capscrew M5 x 10 (Note: Not Available - Purchase Locally)	
305L	7024087	1	O-Ring	
305M	7024088	2	O-Ring	
305N	7024089	2	Cup, Spring	
305P	See Note	NSS	Pin, Cylinder (Note: Use Item 305)	
305Q	70002569	2	Nut, Coil	
310	See Note	1	Housing (Note: Not Available for Purchase)	
313	See Note	2	Pin, Dowel (Note: Not Available for Purchase)	
314	See Note	1	Pin, Cylinder (Note: Not Available for Purchase)	
320	See Note	1	Screw 7/8 (Front Drive Pump Only) (Note: Not Available - Purchase Locally)	
321	See Note	1	Screw 9/16 (Note: Not Available - Purchase Locally)	
322	See Note	1	Screw 7/16 (Note: Not Available - Purchase Locally)	
324	See Note	1	Screw M10 x 1 (Note: Not Available - Purchase Locally)	
327	See Note	1	Pin, Double Break-Off (Note: Not Available for Purchase)	
328	7018936	2	Orifice	
331	See Note	2	Pin, Clamping (Note: Not Available for Purchase)	
341	7024069	1	O-Ring	

FIGURE 3-61. PUMP ASSEMBLY (REXROTH) (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES)



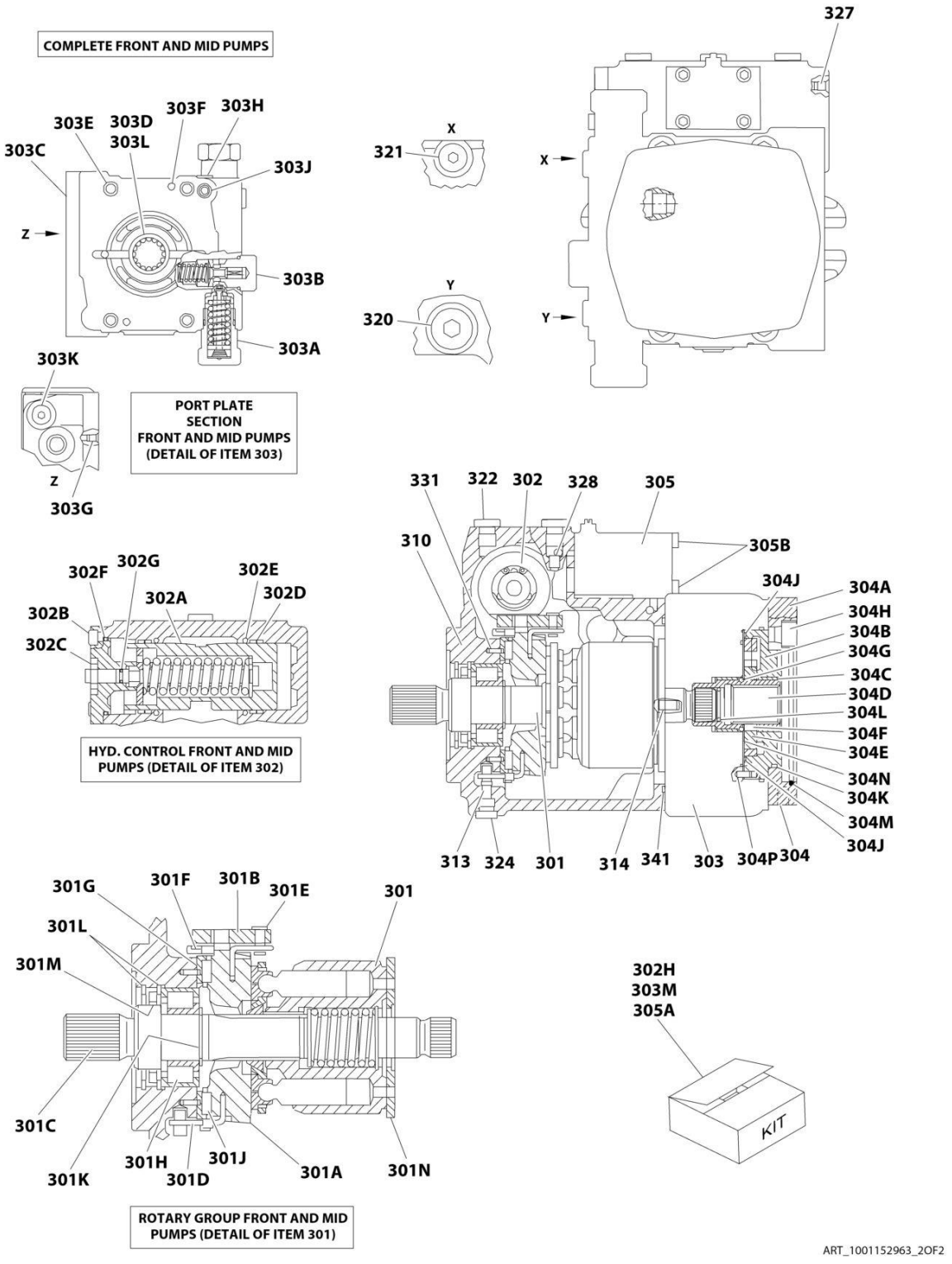

COMPLETE FRONT AND MID PUMPS
303E
303D
303L
303F
303H
303C
303J
Z
303B
303A
303K
Z
303G
PORT PLATE SECTION FRONT AND MID PUMPS (DETAIL OF ITEM 303)
X
321
Y
320
327
X
Y
331
322
302
328
305
310
305B
304J
304A
304H
304B
304G
304C
304D
304L
304F
304E
304N
304K
304M
304J
313
324
301
314
341
303
304P
304
302F
302G
302E
302A
302D
302B
302C
HYD. CONTROL FRONT AND MID PUMPS (DETAIL OF ITEM 302)
301G
301F
301B
301E
301
301L
301M
301C
301K
301H
301D
301J
301A
301N
ROTARY GROUP FRONT AND MID PUMPS (DETAIL OF ITEM 301)
302H
303M
305A
KIT
ART_1001152963_2OF2

FIGURE 3-61. PUMP ASSEMBLY (REXROTH) (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES)

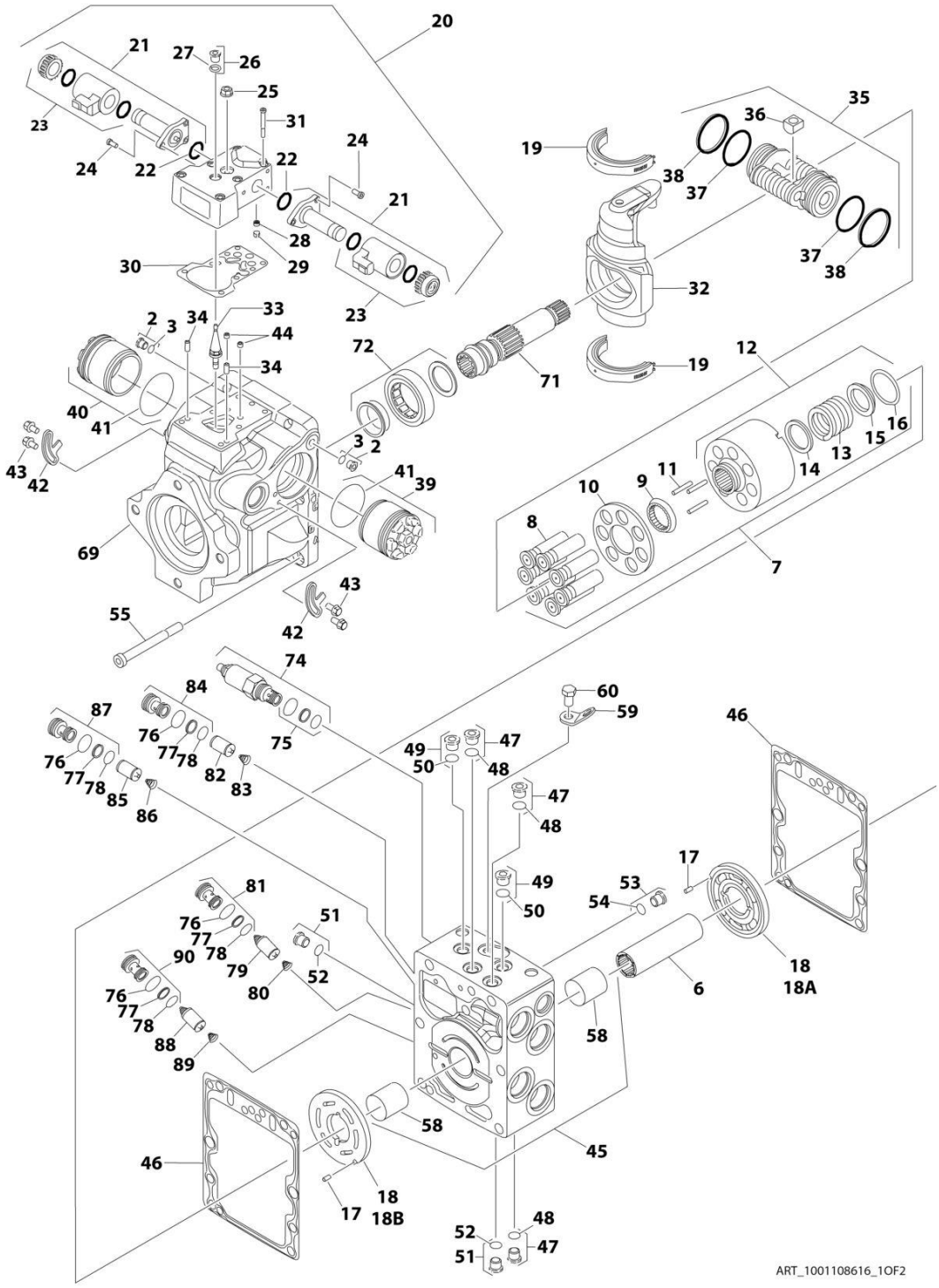
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152963	Ref	PUMP ASSEMBLY (REXROTH) (DEUTZ TCD2.9L4 ENGINES)	C
1	70005480	1	Front Drive Pump Assembly Options (Includes Items 301-341)	
2	70005481	1	Middle Drive Pump Assembly (Includes Items 301-341)	
3	7024044	1	Rear Function Pump Assembly (Includes Items 101-201)	
4	See Note	NSS	Hydraulic Kit (Includes all Rexroth Supplied Hydraulic Fittings, Hoses and Tubes) (Note: Not Available for Purchase)	
	7024044	Ref	REAR FUNCTION PUMP ASSEMBLY	
101	70003173	1	Rotary Section	
102	See Note	1	Piston Control (Note: Not Available - Purchase Complete Assembly)	
103	See Note	1	Rod, Piston (Note: Not Available - Purchase Complete Assembly)	
105	See Note	1	Housing, Pump (Note: Not Available - Purchase Complete Assembly)	
106	See Note	1	Plate, Port (Note: Not Available - Purchase Complete Assembly)	
107	70003174	1	Plate, Swash	
108	70003175	1	Driveshaft	
109	See Note	1	Plug (Note: Not Available for Purchase)	
110	See Note	1	Spring (Note: Not Available for Purchase)	
112		Ref	Shim	
115	7024038	1	Bearing, Roller	
116	7012706	1	Bearing, Roller	
117	7024917	2	Shell, Cradle	
120	7024918	1	Seal, Shaft	
121	7024919	1	O-Ring	
122	7024920	1	O-Ring	
124	7024921	1	Seal	
125	70003177	1	V-Ring	
127	See Note	4	Capscrew M12 x 45 Grade 10.9 (Note: Not Available for Purchase)	
131	See Note	1	Plug (Note: Not Available for Purchase)	
133	See Note	1	Pin, Dowel (Note: Not Available for Purchase)	
134	See Note	1	Plug (Note: Not Available for Purchase)	
201	7024913	Ref	Pilot Valve Assembly	
		Ref	Note: Two mounting designs of p/n 7024913 pilot valve exist. Early design uses qty. 3 o-rings. Late design uses qty. 1 sealing plate. Seal designs cannot be interchanged. Verify seal design before ordering.	
201	7024922	3	O-Ring (Seals between Pilot Valve and Rear Pump)	
201	70021867	1	Plate, Sealing (Seals between Pilot Valve and Rear Pump)	
		Ref	FRONT DRIVE PUMP ASSEMBLIES	
	70005480	Ref	Front Drive Pump Assembly	
	70005481	Ref	Middle Drive Pump Assembly	
		Ref	Note: Service Parts not available at time of printing, call-out number on illustration for ref only.	
301	7024064	1	Rotary Group	
301A	See Note	NSS	Cradle (Note: Use Item 301)	
301B	See Note	NSS	Ring, Slide (Note: Use Item 301)	
301C	7023887	1	Driveshaft	
301D	See Note	NSS	Wire (Note: Use Item 301)	
301E	See Note	NSS	Pin, Joint (Note: Use Item 301)	
301F	See Note	NSS	Wire (Note: Use Item 301)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301G	See Note	NSS	Liner, Bearing (Note: Use Item 301)	
301H	See Note	NSS	Bearing, Roller (Note: Use Item 301)	
301J	See Note	NSS	Cradle Bearing Assembly (Note: Use Item 301)	
301K	70001968	1	Ring, Retaining	
301L	See Note	NSS	Ring, Retaining (Note: Not Available for Purchase)	
301M	70003167	1	Seal, Shaft Ring	
301N	70000950	1	Plate	
302	7024065	1	Control Group - Hydraulic	
302A	See Note	NSS	Piston, Positioning - Complete (Note: Use Item 302)	
302A	See Note	NSS	O-Ring, Outer Seal (Note: Not Available for Purchase)	
302A	See Note	NSS	O-Ring, Stem (Note: Not Available for Purchase)	
302B	See Note	4	Capscrew M6 x 12 (Note: Not Available - Purchase Locally)	
302C	See Note	NSS	Nut (Note: Use Item 302)	
302D	See Note	NSS	Ring, Guide (Note: Use Item 302)	
302E	See Note	NSS	Seal, O-Ring (Note: Use Item 302)	
302F	7024071	1	O-Ring	
302G	7024072	1	O-Ring	
302H	7024006	1	Seal Kit - Control Section	
303	7024905	1	Port Plate Group (Front)	
303	7024911	1	Port Plate Group (Mid)	
303A	7024073	1	Cartridge, Relief Valve (High Pressure)	
303A	7024075	1	O-Ring	
303A	7024076	1	Ring, Back-up	
303B		Ref	Cartridge Options:	
303B	7024907	1	Front Pump Cartridge (Lock Valve With Orifice)	
303B	7024909	1	Screw, Locking	
303B	7024075	1	O-Ring	
303B	70020329	1	Middle Pump Cartridge (Pressure Relief Valve)	
303B	7024909	1	Screw, Locking	
303B	7024077	1	O-Ring	
303C	See Note	NSS	Plate, Port (Note: Use Item 303)	
303D	See Note	NSS	Bushing, Bearing (Note: Use Item 303)	
303E	See Note	4	Capscrew M12 x 70 Grade 10.9 (Note: Not Available - Purchase Locally)	
303F	See Note	NSS	Pin, Dowel (Note: Use Item 303)	
303G	70003340	1	Pin, Break-Off	
303H	See Note	1	Screw, Locking M10 x 1 (Note: Not Available - Purchase Locally)	
303J	7024908	1	O-Ring	
303K	See Note	2	Screw, Locking 7/16 (Note: Not Available - Purchase Locally)	
303L	See Note	NSS	Bearing, Roller (Note: Use Item 303)	
303M	7024006	1	Seal Kit - Port Plate Group	
304	7024906	1	Internal Gear Pump	
304A	See Note	NSS	Flange, Intermediate (Note: Use Item 304)	
304B	See Note	NSS	IZP-Housing (Note: Use Item 304)	
304C	See Note	NSS	Bushing, Bearing (Note: Use Item 304)	
304D	See Note	NSS	Coupling, Driveshaft Through (Note: Use Item 304)	
304E	7024078	1	Gear Set	
304F	7024079	1	Key, Driveshaft	
304G	80934174	1	Ring, Retaining	
304H	See Note	4	Capscrew M10 x 20 (Note: Not Available - Purchase Locally)	
304J	See Note	NSS	Seal (Note: Not Available for Purchase)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
304K	7024081	1	O-Ring	
304L	See Note	NSS	Ring, Retaining (Note: Use Item 304)	
304M	See Note	NSS	O-Ring (Note: Use Item 304)	
304N	See Note	NSS	Plate, Wear (Note: Not Available for Purchase)	
304P	See Note	NSS	Pin, Cylinder (Note: Use Item 304)	
305	70003165	1	Control Module	
305	70003170	1	Coil, Solenoid	
305A	70020336	1	Seal Kit - Control Module	
305B	80934644	4	Capscrew	
310	See Note	1	Housing (Note: Not Available for Purchase)	
313	See Note	2	Pin, Dowel (Note: Not Available for Purchase)	
314	See Note	1	Pin, Cylinder (Note: Not Available for Purchase)	
320	7026980	1	Screw 7/8 (Front Drive Pump Only)	
321	80334079	1	Screw 9/16	
322	See Note	1	Screw 7/16 (Note: Not Available - Purchase Locally)	
324	See Note	1	Screw M10 x 1 (Note: Not Available - Purchase Locally)	
327	70003340	1	Pin, Double Break-Off	
328	7018936	1	Orifice	
331	7024096	2	Pin, Clamping	
341	7024069	1	O-Ring	
342	70007178	1	O-Ring	

FIGURE 3-62. PUMP ASSEMBLY (SAUER TANDEM)



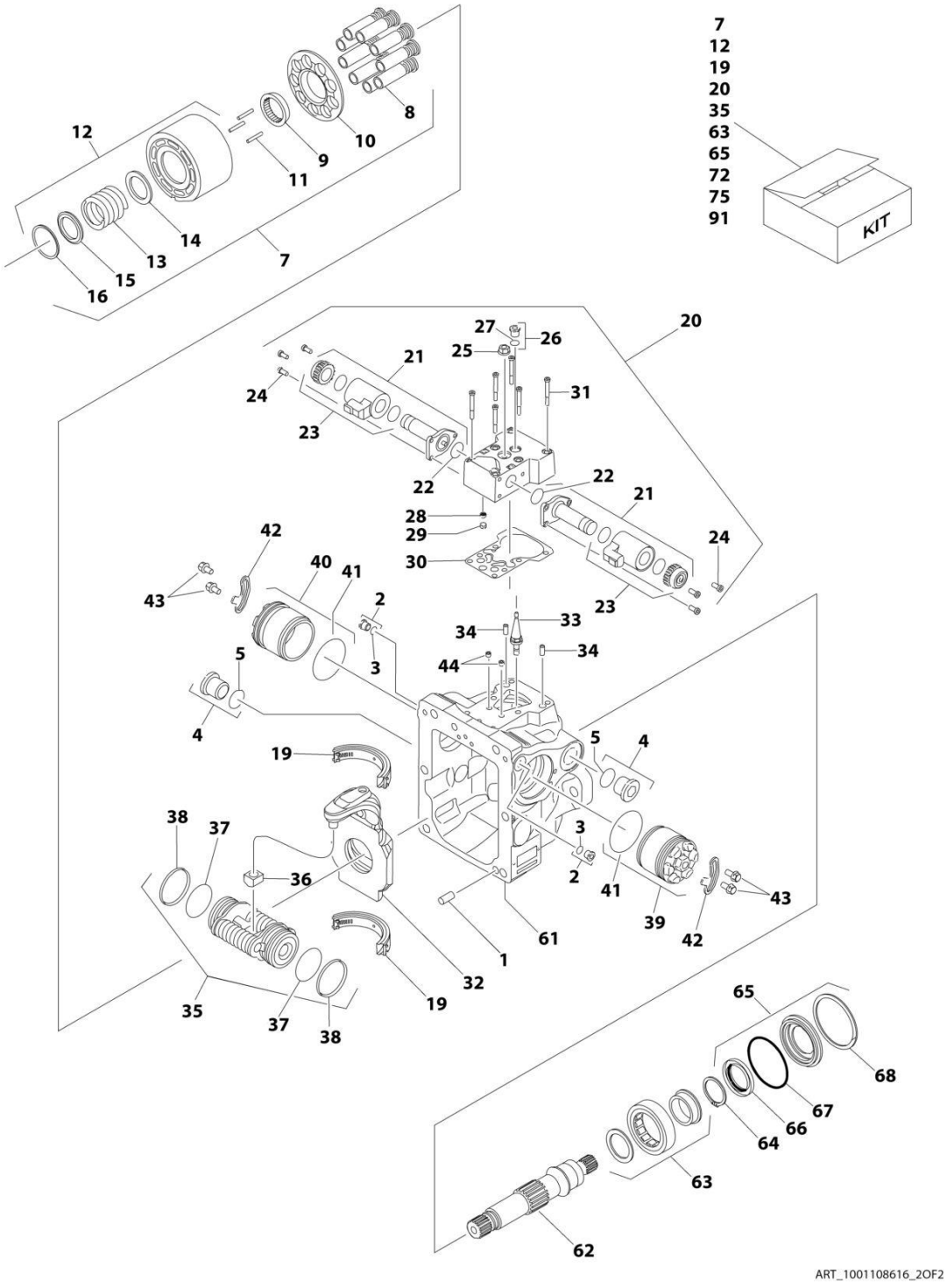

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FIGURE 3-62. PUMP ASSEMBLY (SAUER TANDEM)

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	

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)	

FIGURE 3-63. PUMP ASSEMBLY (SAUER PISTON)

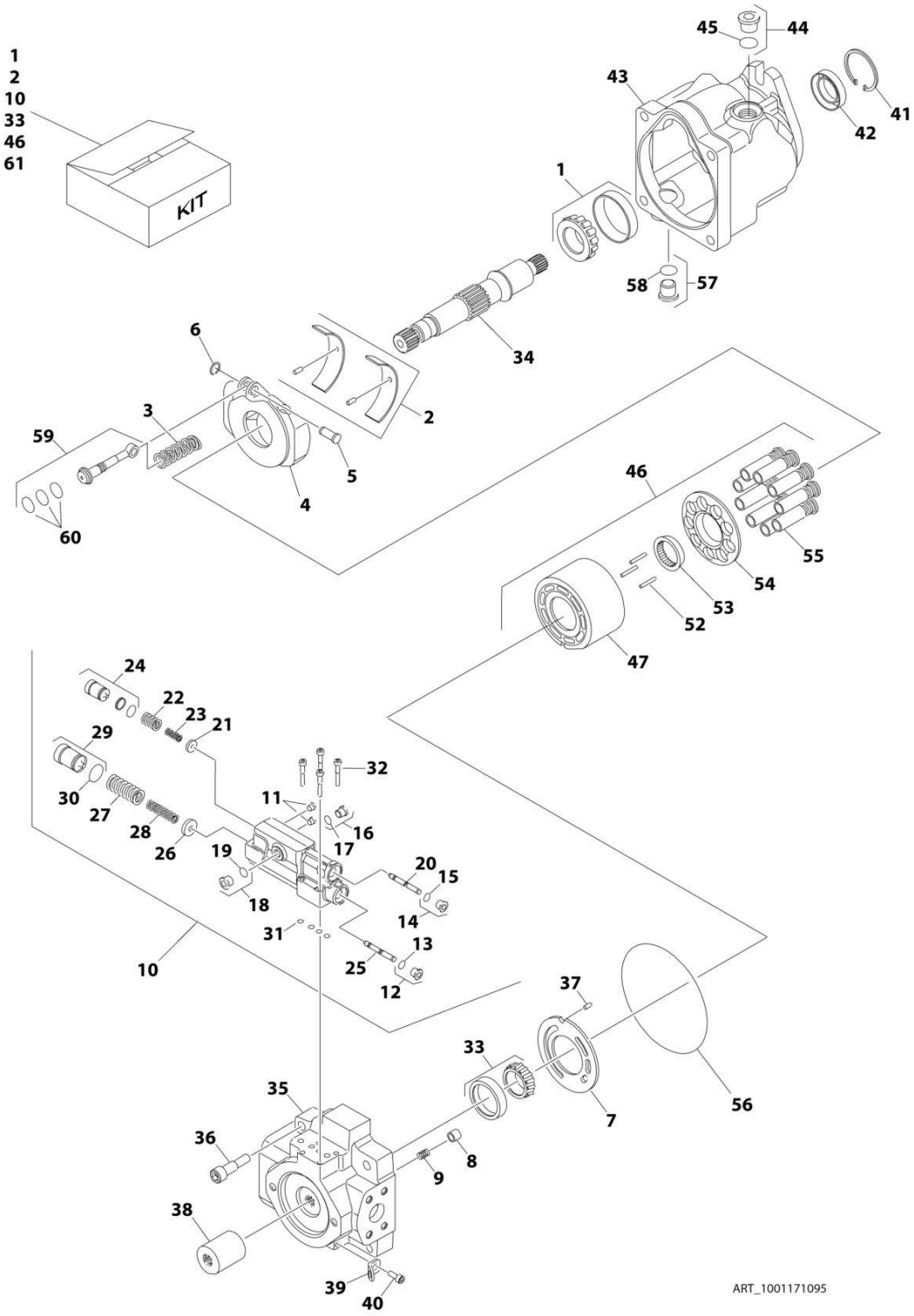

FIGURE 3-63. PUMP ASSEMBLY (SAUER PISTON)

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	

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)	

FIGURE 3-64. PUMP ASSEMBLY (SAUER GEAR)

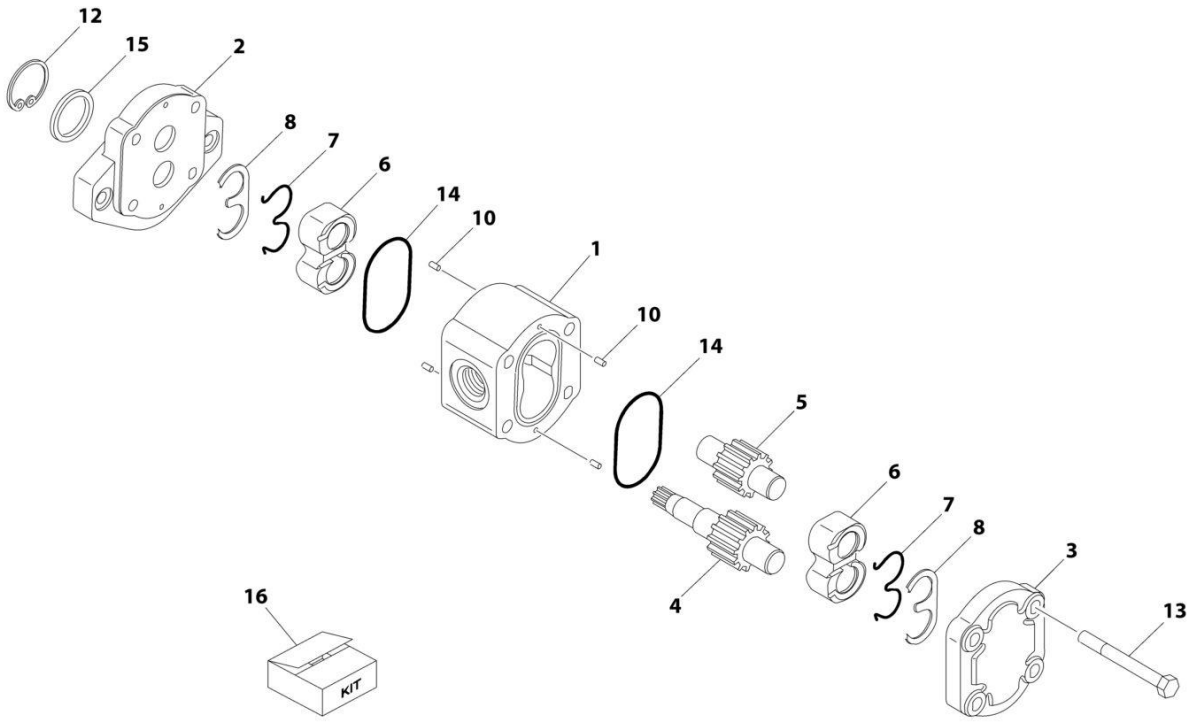

FIGURE 3-64. PUMP ASSEMBLY (SAUER GEAR)

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)	

FIGURE 3-65. PUMP COUPLING KIT

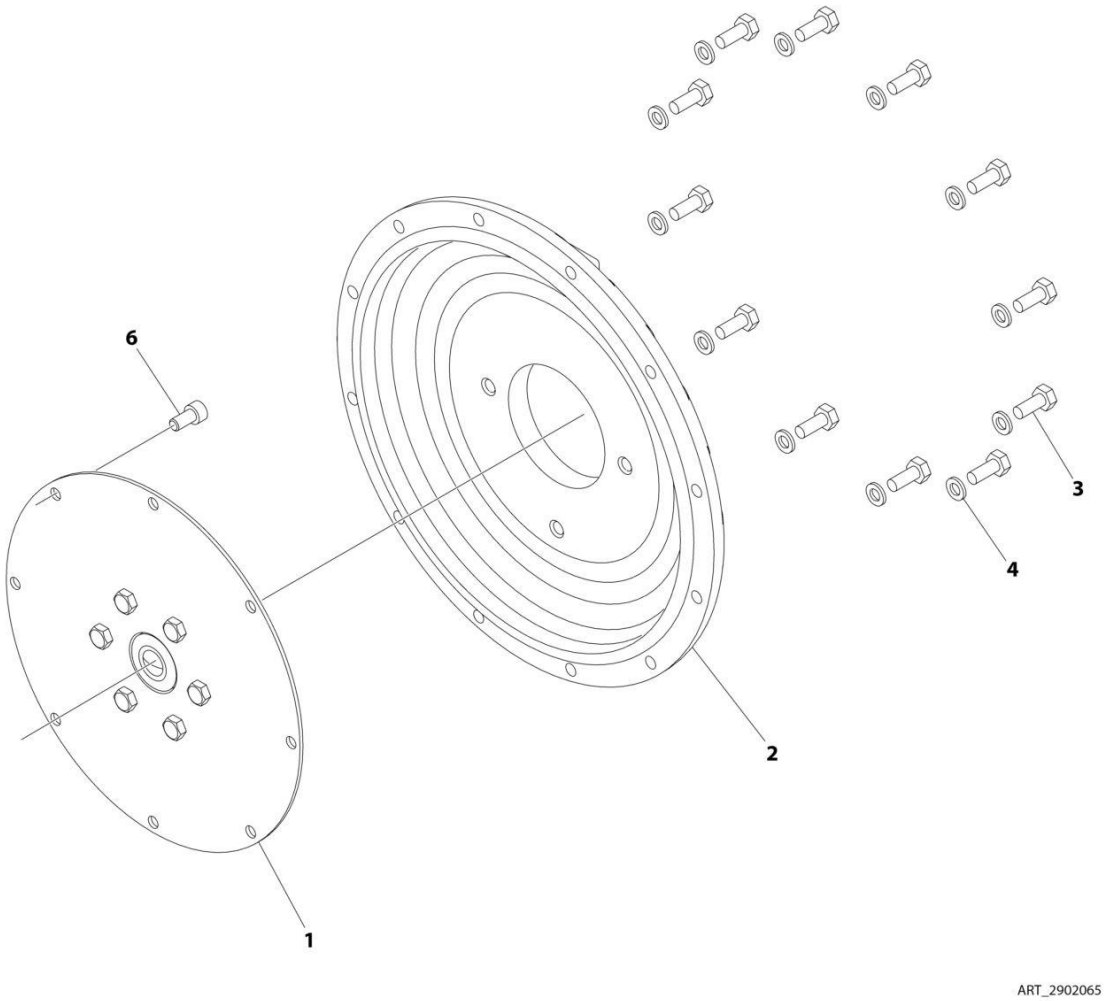

FIGURE 3-65. PUMP COUPLING KIT

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)	

FIGURE 3-66. BREATHER HEATER INST (DEUTZ TD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES)

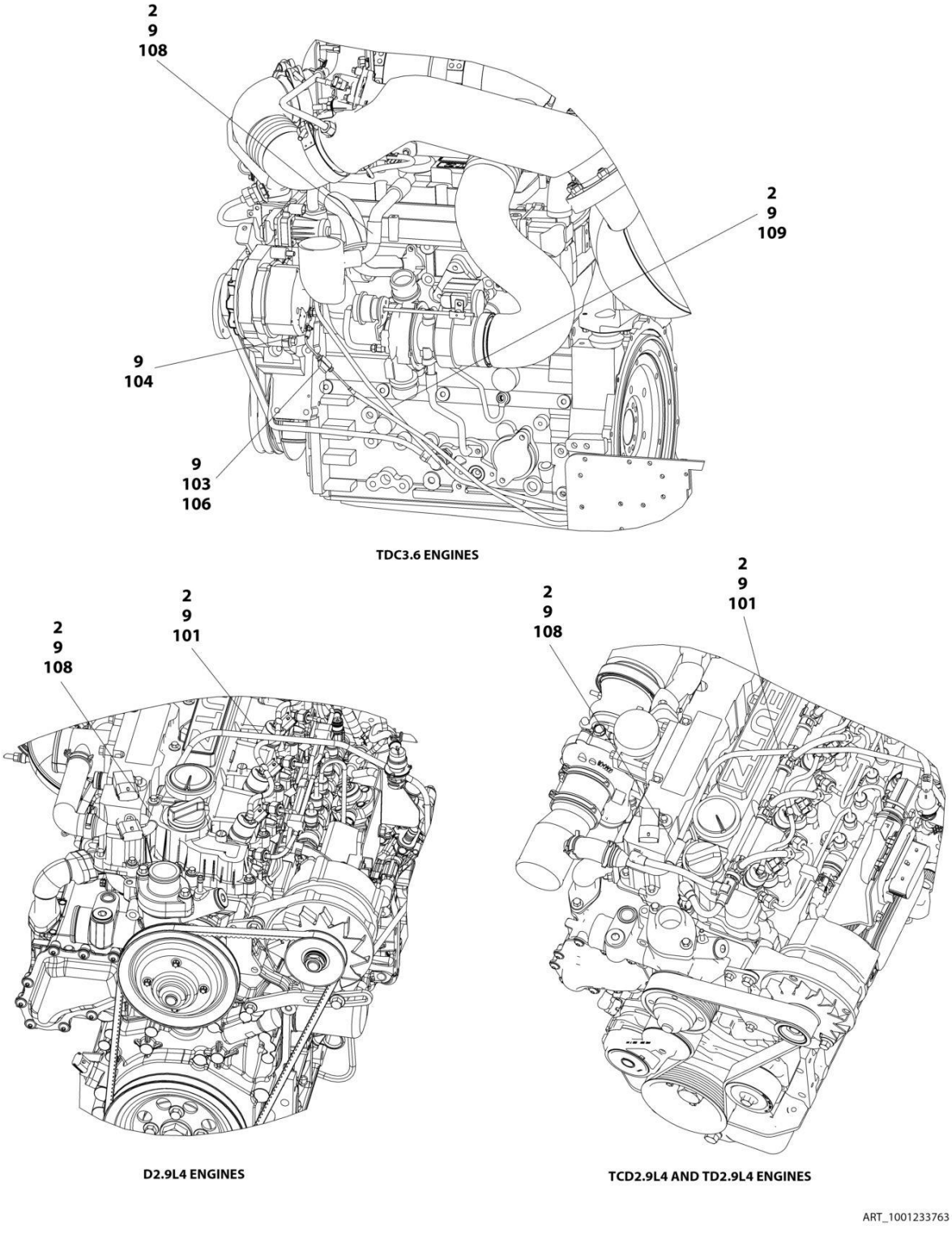

FIGURE 3-66. BREATHER HEATER INST (DEUTZ TD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233763	Ref	BREATHER HEATER INSTALLATION - DEUTZ ENGINES	D
2	4240099	AR	Tie-Strap	
9	1001243895	1	Breather Heater Harness	C
101	2820035	AR	Insulation	
103	2400060	1	Fuseholder with Cover	
104	4460043	1	Terminal, Ring	
105	4460722	1	Terminal, Ring (Not Shown)	
106	1001196634	1	Fuse - 2 Amp	
108	1001232842	1	Breather Heater Kit	

FIGURE 3-67. FUEL PUMP/FILTER BRACKET ASSEMBLY - DEUTZ TCD2.9L4 ENGINE AND DEUTZ TCD2.9L4 (STAGE V) ENGINE

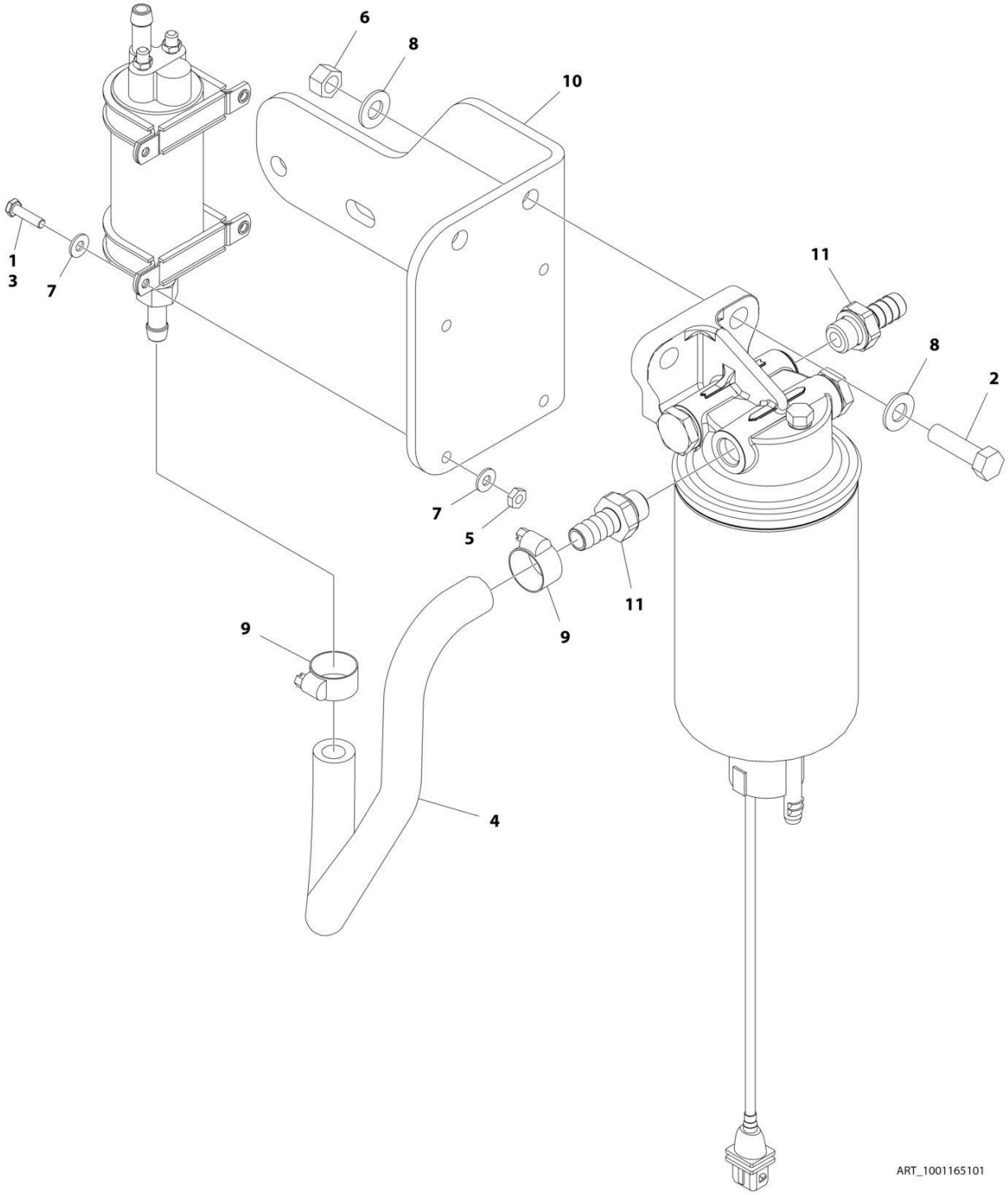

FIGURE 3-67. FUEL PUMP/FILTER BRACKET ASSEMBLY - DEUTZ TCD2.9L4 ENGINE AND DEUTZ TCD2.9L4 (STAGE V) ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165101	Ref	FUEL PUMP/FILTER BRACKET ASSEMBLY - DEUTZ TCD2.9L4 ENGINE AND DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINE	C
1	0100011	AR	Compound, Locking	
2	0641611	2	Bolt 3/8 x 1-3/8	
3	0721006	4	Bolt #10 x 3/4	
4	1001154405	1.5 ft /0.4m	Hose	
5	3311001	4	Nut #10	
6	3311605	2	Nut 3/8	
7	4711000	8	Washer #10	
8	4711600	4	Washer 3/8	
9	8405006	2	Clamp	
10	1001140222	1	Bracket, Fuel Pump Mounting	
11	1001141718	1	Fitting, Barbed	

FIGURE 3-68. QUICKFIT OIL VALVE

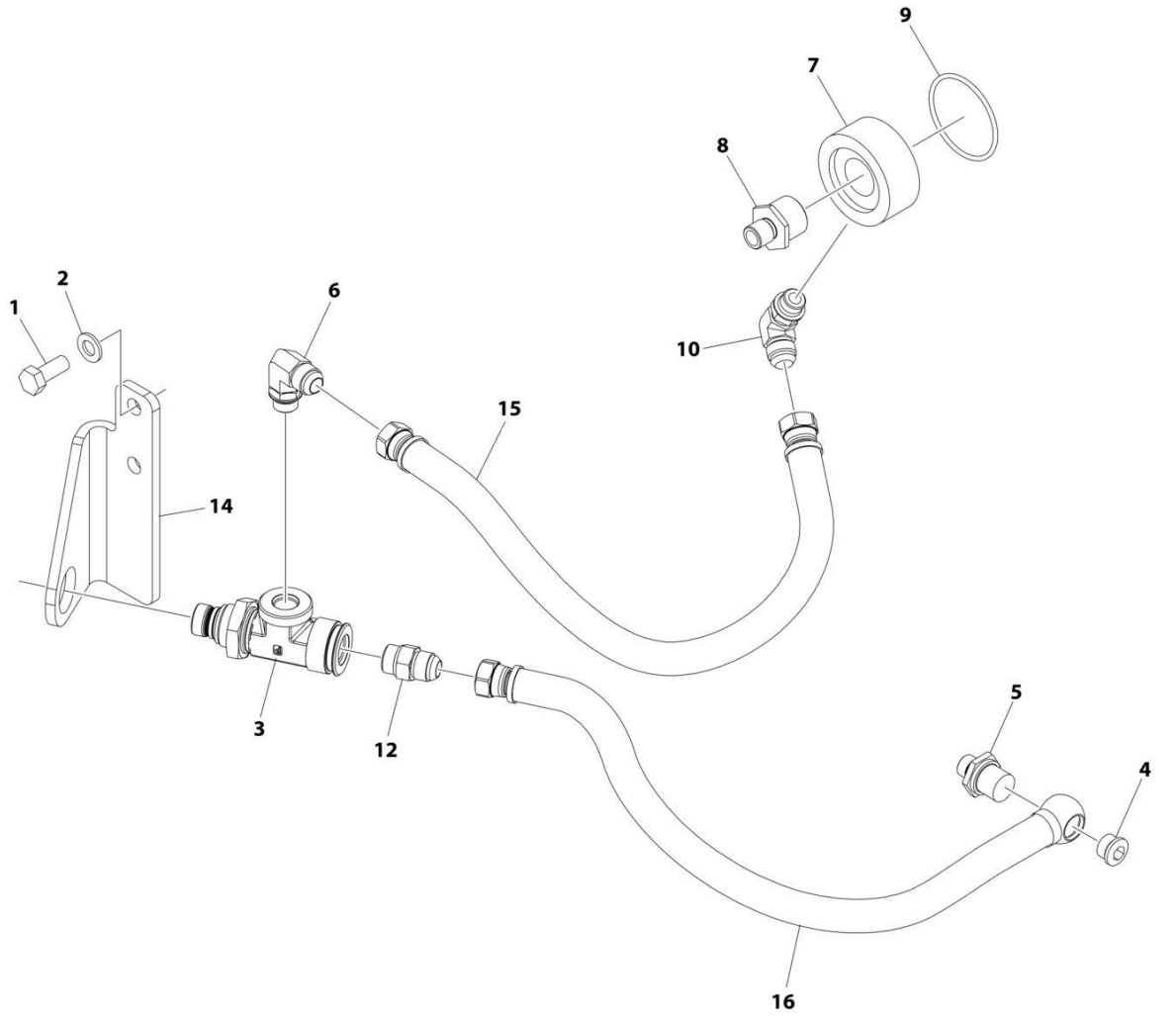

FIGURE 3-68. QUICKFIT OIL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284070	Ref	QUICKFIT OIL VALVE	A
1	0761214	2	Bolt M12 x 30	
2	4812100	2	Washer M12	
3	1001281298	1	Valve	
4	1001281304	1	Plug	
5	1001281305	1	Fitting, Banjo	
6	1001281307	1	Fitting, 90	
7	1001281309	1	Filter	
8	1001281310	1	Fitting	
9	1001281311	1	O-Ring	
10	1001281359	1	Valve, Check	
11	1001281360	1	Decal (Not Shown - Located On Frame)	
12	1001281404	1	Fitting, Adapter	
13	1001281656	AR	Tie-strap (Not Shown)	
14	1001282333	1	Bracket	
15	1001284100	1	Hose	
16	1001284101	1	Hose	

FIGURE 3-69. WATER/FUEL SEPARATOR INSTALLATION - DEUTZ TD2011 ENGINE

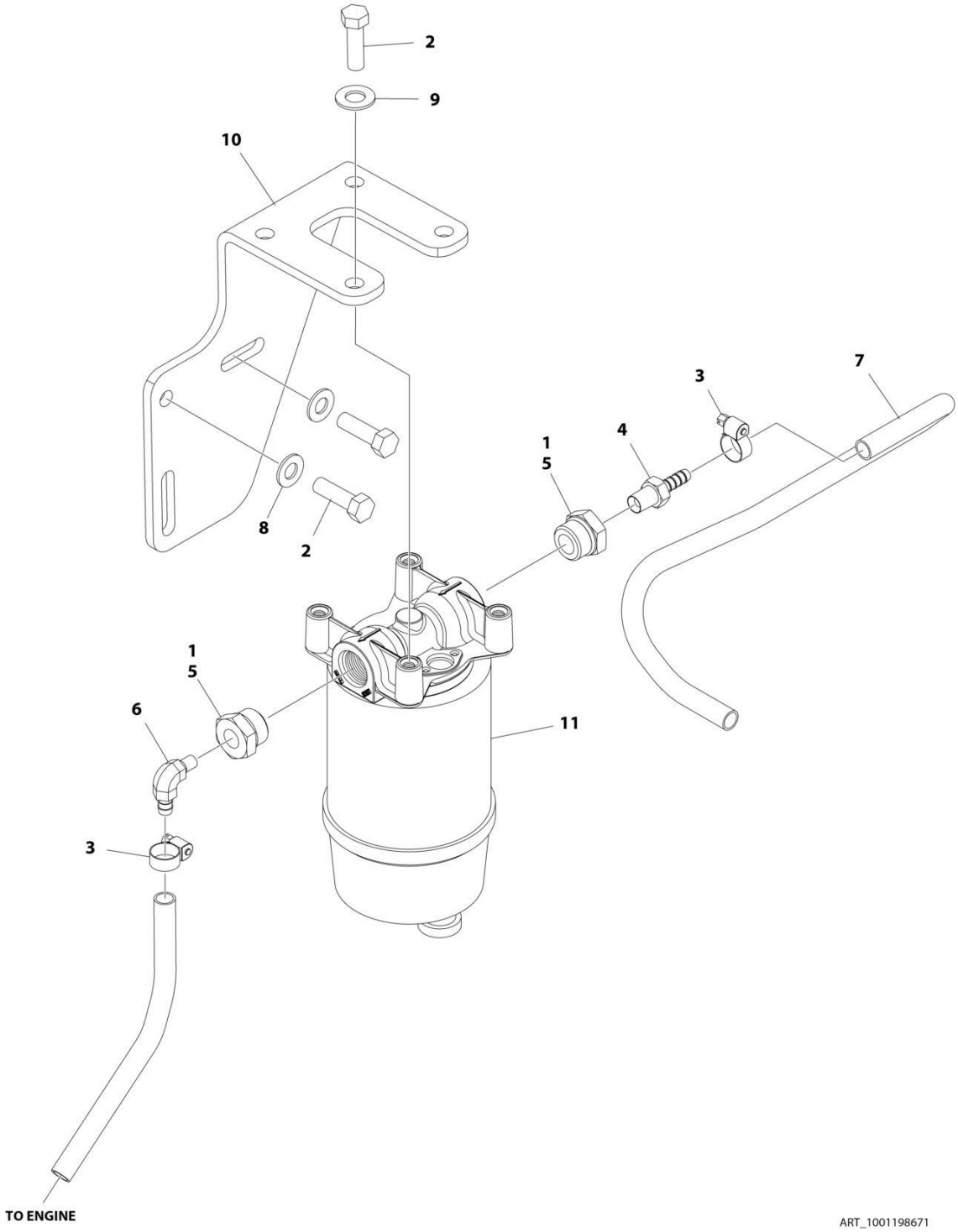

FIGURE 3-69. WATER/FUEL SEPARATOR INSTALLATION - DEUTZ TD2011 ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001198671	Ref	WATER/FUEL SEPARATOR INSTALLATION - DEUTZ TD2011 ENGINE	A
1	0100079	AR	Sealant, Pipe	
2	0641610	6	Bolt 3/8 x 1-1/4	
3	1320022	2	Clamp	
4	2180348	1	Fitting, Barbed	
5	2220816	2	Fitting, Adapter FNPTF/ORB	
6	2221046	1	Fitting, 90 Elbow	
7	2720058	4.5 ft /1.37m	Hose	
8	4711600	2	Washer 3/8	
9	4711700	4	Washer 7/16	
10	1001188885	1	Bracket, Water/Fuel	
11	1001188887	1	Filter Water/Fuel	
11	1001202280	1	Filter, Head	
11	1001202281	1	Filter, Element	

FIGURE 3-70. FUEL FILTER INSTALLATION (CHINESE SPEC)

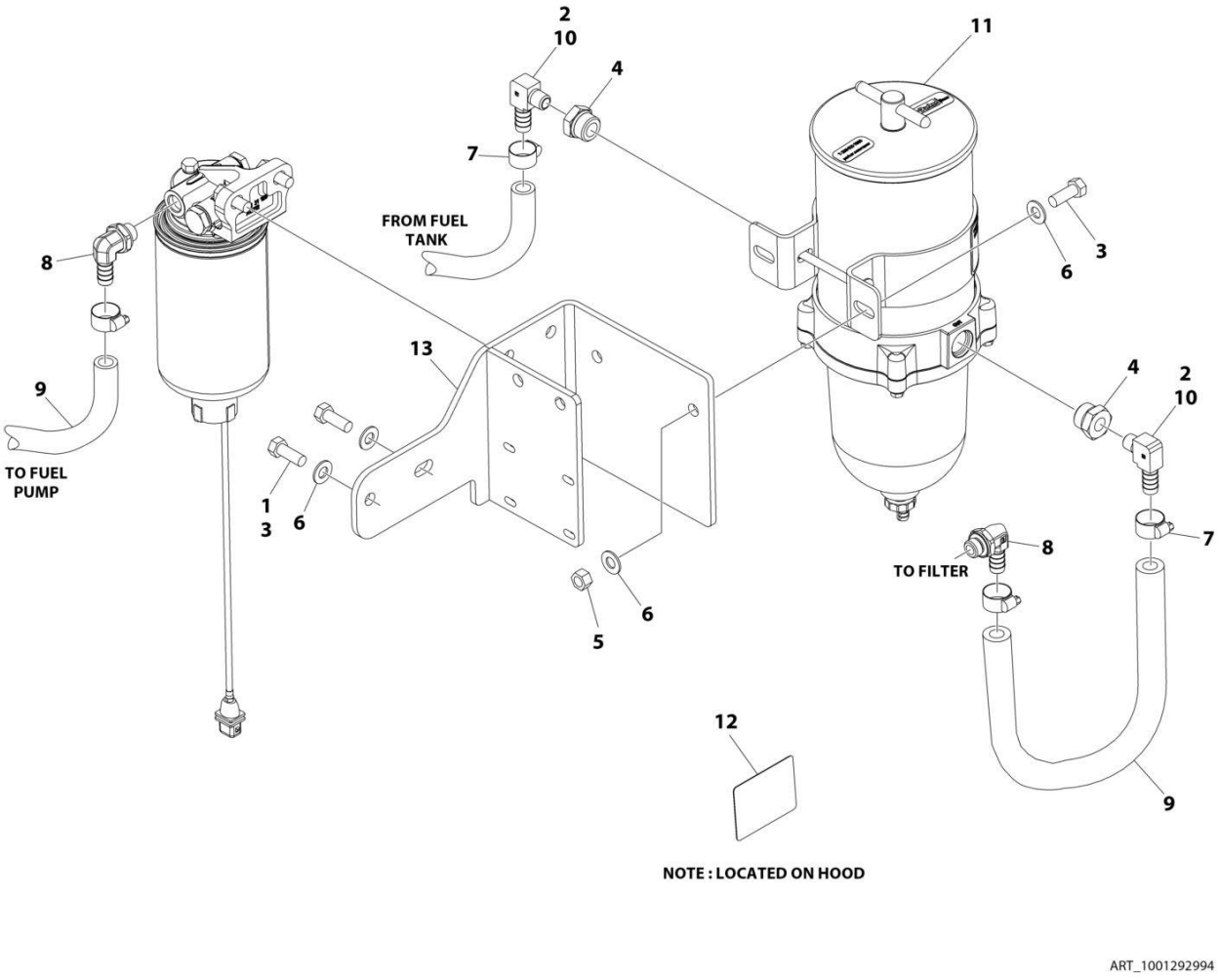

FIGURE 3-70. FUEL FILTER INSTALLATION (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001292994	Ref	FUEL FILTER INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant	
3	0641608	4	Bolt 3/8 x 1	
4	2220816	2	Fitting, Adapter FNPTF/ORB	
5	3311605	2	Nut	
6	4711600	6	Washer 3/8	
7	8405006	2	Clamp	
8	1001142501	2	Fitting, 90	
9	1001154405	4 ft/2 m	Hose	
10	1001178797	2	Fitting, 90	
11	1001222817	1	Filter, Fuel	
12	1001226923	1	Decal - Fuel water Separator	
13	1001292931	1	Bracket	

FIGURE 3-71. SPARK ARRESTING CATALYTIC MUFFLER - DEUTZ TD2011 ENGINES (OPTIONAL)

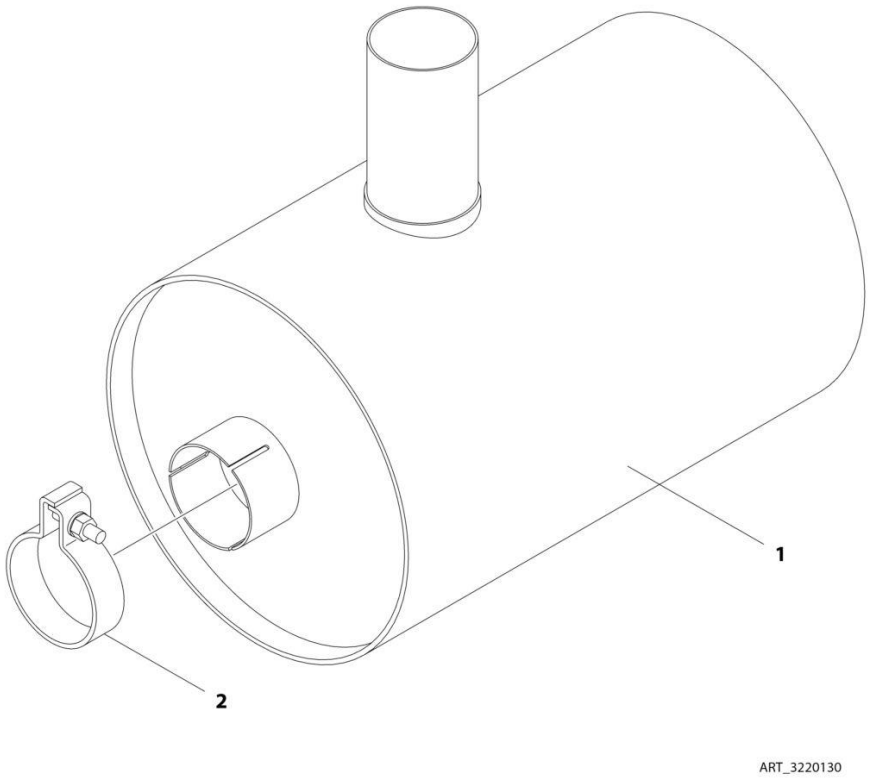

FIGURE 3-71. SPARK ARRESTING CATALYTIC MUFFLER - DEUTZ TD2011 ENGINES (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3220130	Ref	SPARK ARRESTING CATALYTIC MUFFLER - DEUTZ TD2011 ENGINES	A
1	See Note	NSS	Muffler (Note: Use p/n 3220130)	
2	70001017	1	Clamp	

FIGURE 3-72. 2500W GENERATOR INSTALLATION - DEUTZ TD2011 ENGINES (OPTIONAL)

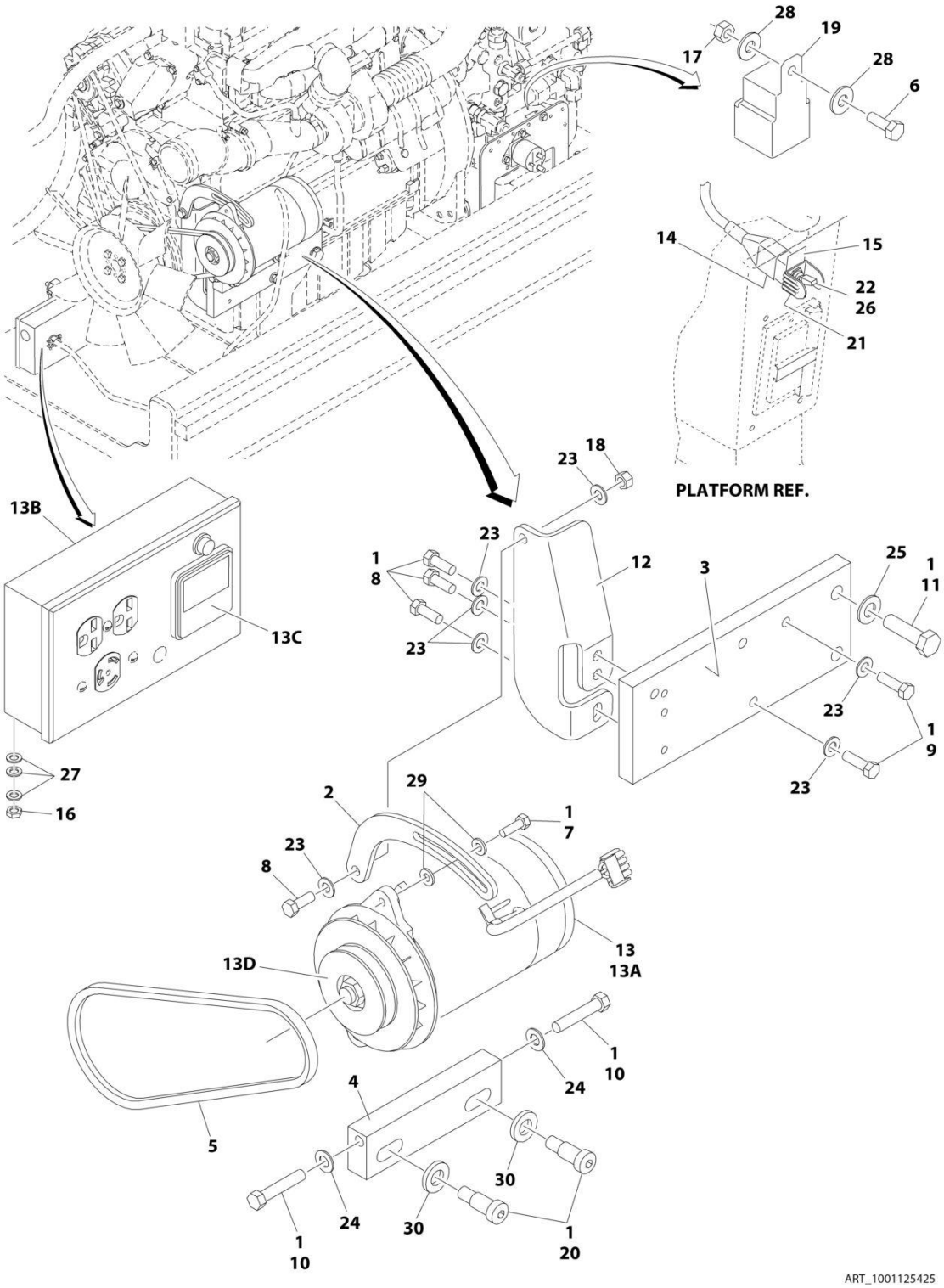

FIGURE 3-72. 2500W GENERATOR INSTALLATION - DEUTZ TD2011 ENGINES (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125425	Ref	2500W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES)	A
1	0100011	AR	Compound, Locking	
2	0200742	1	Arm, Adjusting	
3	0363081	1	Bar, Mounting	
4	0363082	1	Bar, Adjusting	
5	0480127	1	Belt	
6	0641406	1	Bolt 1/4 x 3/4	
7	0641508	1	Bolt 5/16 x 1	
8	0641608	4	Bolt 3/8 x 1	
9	0641610	2	Bolt 3/8 x 1-1/4	
10	0641718	2	Bolt 7/16 x 2-1/14	
11	0701418	2	Bolt M14 x 50	
12	0902813	1	Bracket, Arm Mounting	
13	2460055	1	Generator, 110V/60Hz	
13A	7012558	1	Generator 110V/60Hz	
		Ref	Note: Replacement generators come standard with p/n 3580134 pulley. This pulley may not be correct for all applications. Refer to pulley options below for correct pulley.	
13A	7012513	4	Cap, Brush Holder	
13A	7020108	4	Brush	
13A	7020109	4	Holder, Brush	
13A	7012514	1	Fan	
13A	7020190	2	Bearing	
13A	7020110	1	End Bell, Front	
13A	7020111	1	End Bell, Rear	
13B	7019680	1	Box Control	
13B	4360542	1	Breaker, Circuit	
13B	4460190	AR	Receptacle, Double (110V)	
13B	4460027	AR	Receptacle, Double Twist Lock (110V)	
13B	70000124	1	Receptacle, Double (220V)	
13B	70000125	1	Receptacle, Single Twist Lock (220V)	
13C	2420203	1	Voltmeter	
13D	3580276	1	Pulley	
13D	7027887	1	Key, Woodruff	
14	2820031	AR	Heat Shrink	
15	3251102	1	Nameplate - Generator	
16	3311005	2	Nut #10	
17	3311405	1	Nut 1/4	
18	3311605	1	Nut 3/8	
19	3740080	1	Relay	
20	3900322	2	Screw, Socket Head Shoulder	
21	4060802	1	Guard, Switch	
22	4360336	1	Switch, Toggle	
23	4711600	7	Washer 3/8	
24	4711700	2	Washer 7/16	
25	4711900	2	Washer 9/16	
26	4740397	1	Spacer	
27	4751000	6	Washer #10	
28	4751400	2	Washer 1/4	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
29	4891500	2	Washer 5/16	
30	4892000	2	Washer 5/8	

FIGURE 3-73. 4000W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES)

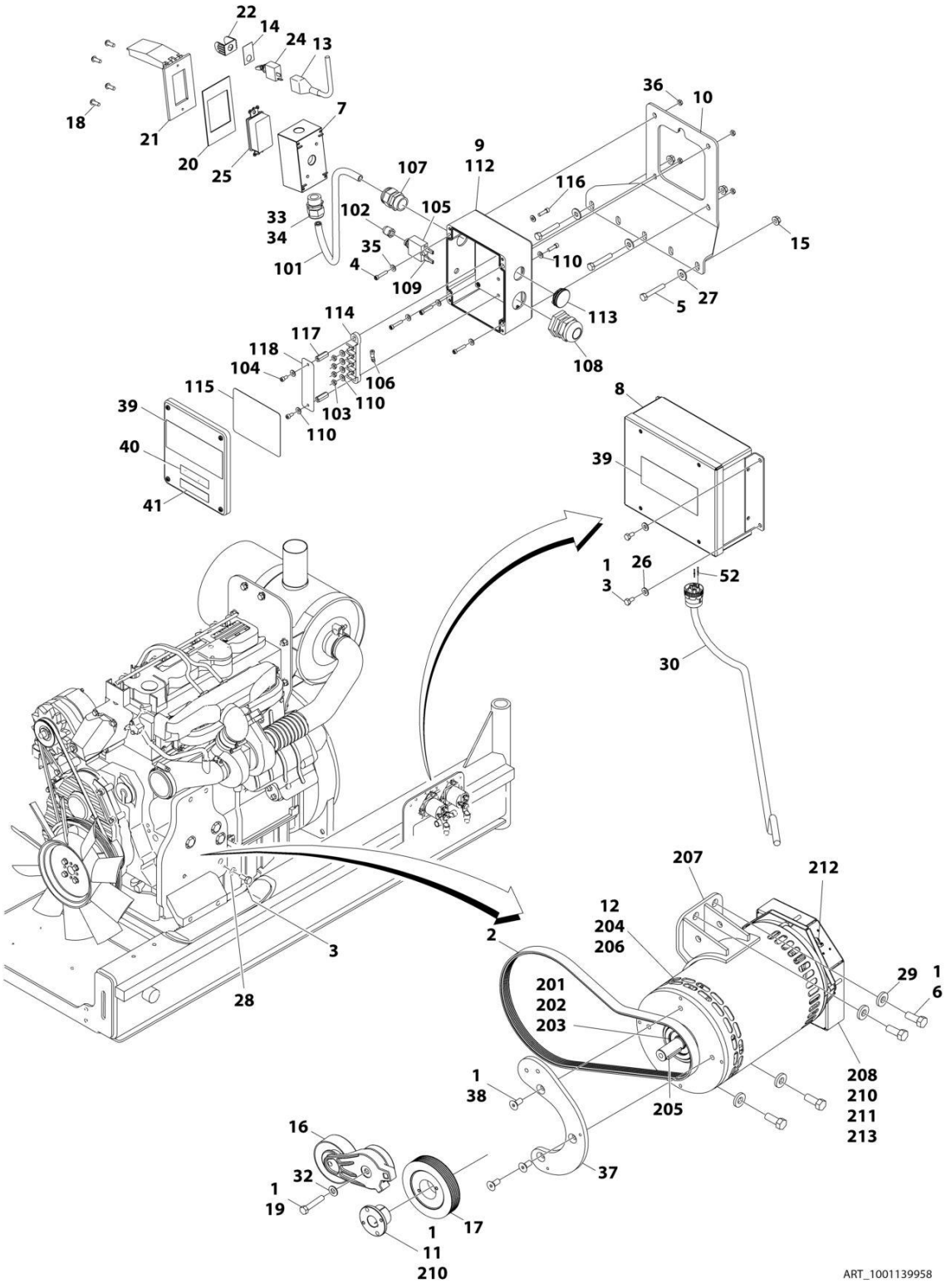

FIGURE 3-73. 4000W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139958	Ref	4000W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES)	B
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0480128	1	Belt, Generator	
3	0641404	5	Bolt 1/4 x 1/2	
4	3931016	4	Screw 1/4 x 1	
5	0641516	3	Bolt 5/16 x 2	
6	0641810	4	Bolt 1/2 x 1-1/4	
7	0860038	1	Box, Switch-Weatherhead	
8	1001138566	1	Box, Generator Control	
8	70006552	1	Capacitor	
8	70006553	1	Relay	
9	1001152457	1	Box, Junction Assembly (See Items 101-118 for Breakdown)	
10	0902888	1	Bracket, Generator Junction Box	
11	0962520	1	Bushing, Taper	
12	1001129858	1	Generator, 4000W Assembly (See Items 200-213 for Breakdown)	
13	2820031	AR	Insulator, Heat Shrink	
14	3251102	1	Nameplate, Generator	
15	3311508	3	Nut 5/16	
16	3580317	1	Pulley, Belt Tensioner	
17	3580318	1	Pulley, Generator	
18	3910606	4	Screw 6 x 3/8	
19	0641616	AR	Bolt 3/8 x 2	
20	3960422	1	Gasket, AC Receptacle	
21	1001110873	1	Cover, Gang Vertical Receptacle GFCI	
22	4060802	1	Guard, Switch	
23	4240018	AR	Strap, Tie (Not Shown)	
24	4360336	1	Switch, Toggle	
25	4460346	1	Terminal, Receptacle	
26	4711400	4	Washer 1/4	
27	4751500	3	Washer 5/16	
28	4791400	2	Starwasher 1/4	
29	4891800	4	Washer 1/2	
30	1001152533	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL SECTION)	
31	1001153257	1	Diagram, Generator Wiring (Not Shown)	
32	4711600	1	Washer 3/8	
33	0100020	AR	Sealant, Pipe	
34	4460071	1	Connector, Strain Relief	
35	4751000	4	Washer #10	
36	3311005	4	Nut #10	
37	1001139357	1	Mount, Generator Tensioner	
38	0741607	3	Screw 3/8 x 0.88	
39	1705387	3	Decal - Hazardous Voltage	
40	3251243	1	Decal - 120V-60Hz	
41	1705374	1	Decal - 240V-60Hz	
52	0100048	AR	Grease, Dielectric	
	1001152457	Ref	JUNCTION BOX ASSEMBLY	B

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	1001179154	2.5 ft/ 0.8m	Cable, 12/3	
102	3300396	1	Cover, Fuse	
103	3311001	4	Nut #10 Grade 2	
104	3900300	2	Screw, Spec, Cap	
105	4360070	1	Circuit Breaker, 15Amp	
106	4460068	3	Terminal, Ring	
107	4460425	1	Terminal, Strain Relief	
108	4460426	1	Connector, Strain Relief	
109	4460483	2	Terminal	
110	4711000	8	Washer #10	
112	1001152456	1	Box, Junction	
113	1001152525	1	Plug, Hole Pluggit	
114	1001152530	1	Terminal, Block, 4 Pole	
115	1001153260	1	Decal - Wiring 4000W Generator	
116	3900267	2	Screw, Spec, Cap	
117	1001158008	2	Stand-Off, Female, Threaded	
118	1001158363	1	Plate, Cover, PVC	
	1001129858	Ref	4000W GENERATOR ASSEMBLY	
201	70003709	1	Ring, Retaining	
202	70003708	1	Ring, Retaining	
203	70001966	1	Bearing, Ball	
204	70004092	1	Endbell	
205	70004171	1	Key	
206	70004676	1	Rotor Assembly	
207	70004684	1	Stator, Generator 4000W	
208	70004678	1	Endbell	
210	70004680	1	Enclosure	
211	70004685	1	Cover, Enclosure	
212	70004682	1	Protector, Supplementary, Manual Reset	
213	70004098	1	Bushing, Strain Relief	

FIGURE 3-74. 4000W GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TD2011 ENGINES)

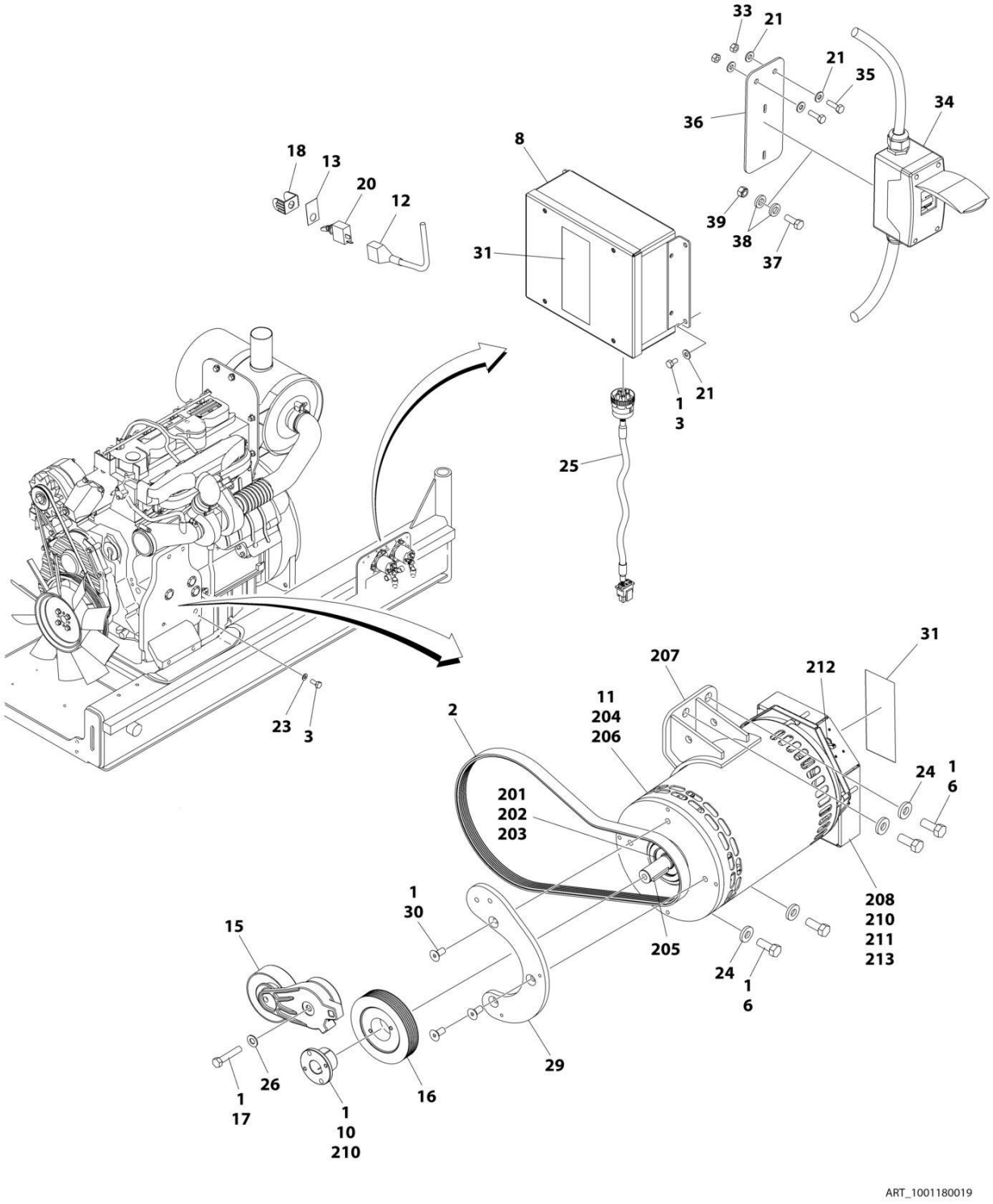

FIGURE 3-74. 4000W GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TD2011 ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180019	Ref	4000W GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TD2011 ENGINES)	C
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	1001136356	1	Belt, Generator	
3	0641404	5	Bolt 1/4 x 1/2	
6	0641810	4	Bolt 1/2 x 1-1/4	
8	1001138566	1	Box, Generator Control	
8	70006552	1	Capacitor	
8	70006553	1	Relay	
10	0962520	1	Bushing, Taper	
11	1001138565	1	Generator, 4000W Assembly (See Items 200-213 for Breakdown)	
12	2820031	AR	Insulator, Heat Shrink	
13	3251102	1	Nameplate, Generator	
15	3580317	1	Pulley, Belt Tensioner	
16	3580319	1	Pulley, Generator	
17	0641616	AR	Bolt 3/8 x 2	
18	4060802	1	Guard, Switch	
19	4240018	AR	Strap, Tie (Not Shown)	
20	4360336	1	Switch, Toggle	
21	4711400	8	Washer 1/4	
23	4791400	2	Starwasher 1/4	
24	4891800	4	Washer 1/2	
25	1001152533	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL SECTION)	
26	4711600	1	Washer 3/8	
29	1001139357	1	Mount, Generator Tensioner	
30	0741607	3	Screw 3/8 x 0.88	
31	1705489	AR	Decal - Hazardous Voltage	
33	3311405	2	Nut 1/4 Grade 2	
34	1001165368	1	Kit, Box and Breaker (See Separate Breakdown in ELECTRICAL SECTION)	
35	0641407	2	Bolt 1/4 x 7/8	
36	1001096172	1	Bracket	
37	4010408	2	Screw M4 x 16	
38	1001091102	4	Washer M4	
39	3290405	2	Nut M4	
	1001138565	Ref	4000W GENERATOR ASSEMBLY	
201	70003709	1	Ring, Retaining	
202	70003708	1	Ring, Retaining	
203	70001966	1	Bearing, Ball	
204	70004092	1	Endbell	
205	70004171	1	Key	
206	70004676	1	Rotor Assembly	
207	70004677	1	Stator, Generator 4000W	
208	70004678	1	Endbell	
210	70004680	1	Enclosure	
211	70004681	1	Cover, Enclosure	
212	70004682	1	Protector, Supplementary, Manual Reset	
213	70004683	1	Bushing, Strain Relief	

FIGURE 3-75. 4000W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TCD2.9L4 ENGINES)

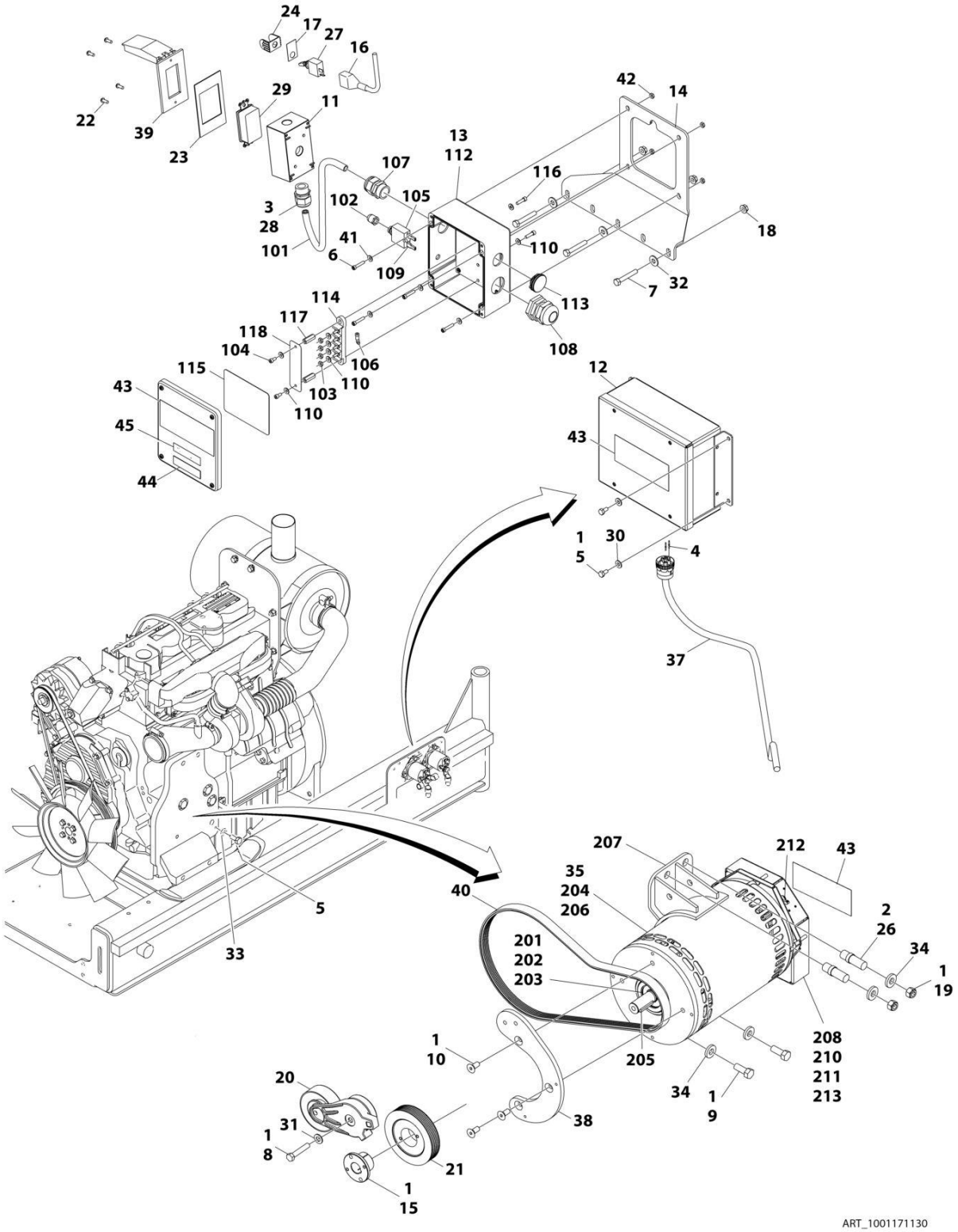

FIGURE 3-75. 4000W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TCD2.9L4 ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171130	Ref	4000W GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TCD2.9L4 ENGINES)	B
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100020	AR	Sealant, Pipe	
4	0100048	AR	Grease, Dielectric	
5	0641404	5	Bolt 1/4 x 1/2	
6	3931016	4	Screw 1/4 x 1	
7	0641516	3	Bolt 5/16 x 2	
8	0641618	1	Bolt 3/8 x 2-1/4	
9	0641810	2	Bolt 1/2 x 1-1/4	
10	0741607	3	Screw 3/8 x 0.88	
11	0860038	1	Box, Switch-Weatherhead	
12	1001138566	1	Box, Generator Control	
12	70006552	1	Capacitor	
12	70006553	1	Relay	
13	1001152457	1	Box, Junction Assembly (See Items 101-118 for Breakdown)	
14	0902888	1	Bracket, Generator Junction Box	
15	0962520	1	Bushing, Taper	
16	2820031	AR	Insulator, Heat Shrink	
17	3251102	1	Nameplate, Generator	
18	3311508	3	Nut 5/16	
19	3311801	2	Nut 1/2	
20	3580317	1	Pulley, Belt Tensioner	
21	3580318	1	Pulley, Generator	
22	3910606	4	Screw 6 x 3/8	
23	3960422	1	Gasket, AC Receptacle	
24	4060802	1	Guard, Switch	
25	4240018	AR	Strap, Tie (Not Shown)	
26	4300157	2	Stud	
27	4360336	1	Switch, Toggle	
28	4460071	1	Connector, Strain Relief	
29	4460346	1	Terminal, Receptacle	
30	4711400	4	Washer 1/4	
31	4711600	1	Washer 3/8	
32	4751500	3	Washer 5/16	
33	4791400	2	Starwasher 1/4	
34	4891800	4	Washer 1/2	
35	1001140344	1	Generator, 4000W Assembly (See Items 200-213 for Breakdown)	
36	1001153257	1	Diagram, Generator Wiring (Not Shown)	
37	1001152533	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL SECTION)	
38	1001138011	1	Mount, Generator Tensioner	
39	1001110873	1	Cover, Gang Vertical Receptacle GFCI	
40	1001142645	1	Belt, Generator	
41	4751000	4	Washer #10	
42	3311005	4	Nut 10	
43	1705387	3	Decal - Hazardous Voltage	
44	1705374	1	Decal - 240V-60Hz	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	3251243	1	Decal - 120V-60Hz	
	1001152457	Ref	JUNCTION BOX ASSEMBLY	B
101	1001179154	2.5 ft/ 0.8m	Cable, Electrical 12/3	
102	3300396	1	Cover, Fuse	
103	3311001	4	Nut 10 Grade 2	
104	3900300	2	Screw, Spec, Cap	
105	4360070	1	Circuit Breaker, 15Amp	
106	4460068	3	Terminal, Ring	
107	4460425	1	Terminal, Strain Relief	
108	4460426	1	Connector, Strain Relief	
109	4460483	2	Terminal	
110	4711000	AR	Washer #10	
112	1001152456	1	Box, Junction	
113	1001152525	1	Plug, Hole Pluggit	
114	1001152530	1	Terminal, Block, 4 Pole	
115	1001153260	1	Decal - Wiring 4000W Generator	
116	3900267	2	Screw, Spec, Cap	
117	1001158008	2	Stand-Off, Female, Threaded	
118	1001158363	1	Plate, Cover, PVC	
	1001140346	Ref	4000W GENERATOR ASSEMBLY	
201	70003709	1	Ring, Retaining	
202	70003708	1	Ring, Retaining	
203	70001966	1	Bearing, Ball	
204	70004092	1	Endbell	
205	70004099	1	Key	
206	70004676	1	Rotor Assembly	
207	70004687	1	Stator, Generator 4000W	
208	70004678	1	Endbell	
210	70004680	1	Enclosure	
211	70004685	1	Cover, Enclosure	
212	70004682	1	Protector, Supplementary, Manual Reset	
213	70004098	1	Bushing, Strain Relief	

FIGURE 3-76. 4000W GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES)

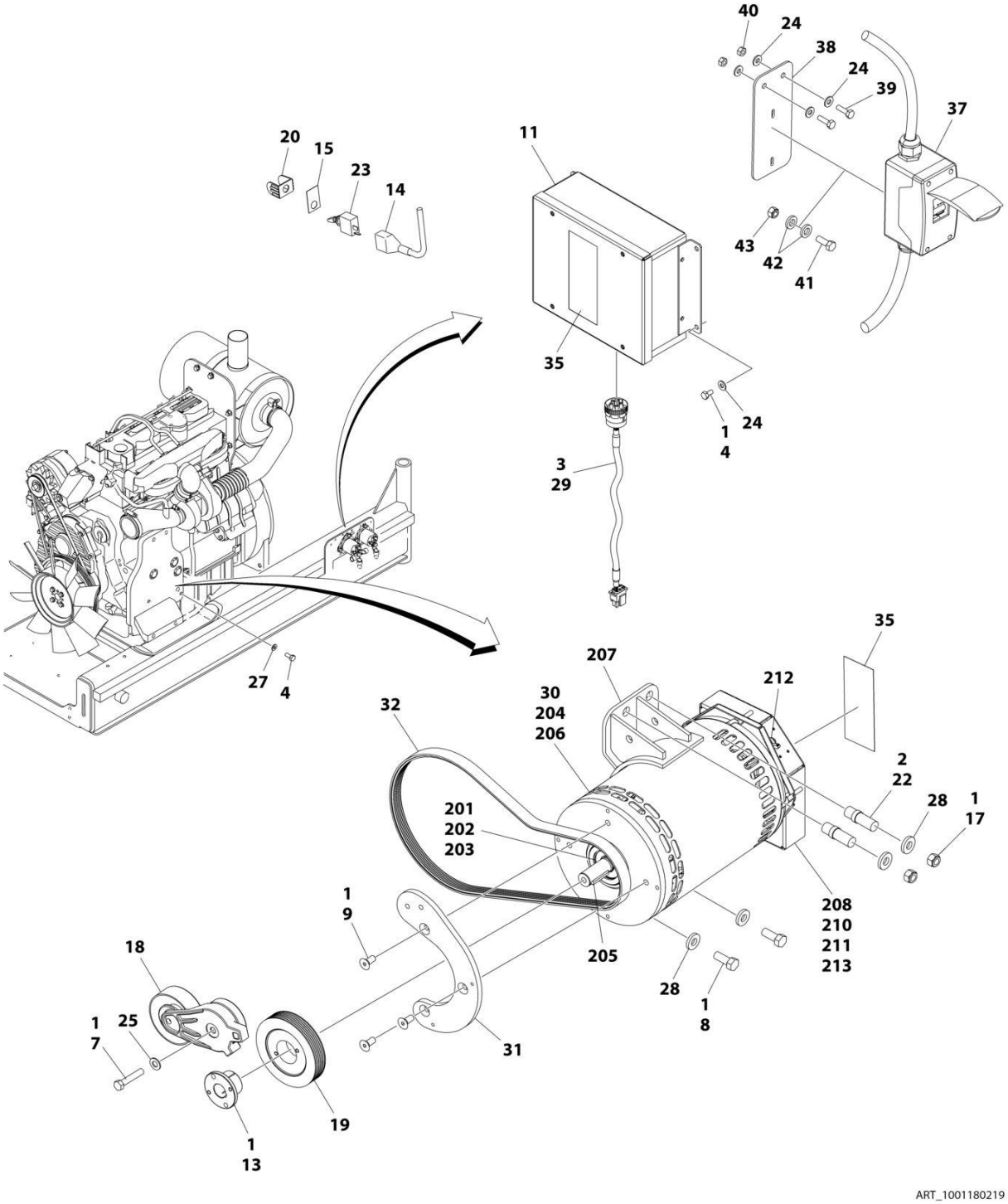

FIGURE 3-76. 4000W GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180219	Ref	4000W GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TCD2.9L4 ENGINES)	C
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100048	AR	Grease, Dielectric	
4	0641404	5	Bolt 1/4 x 1/2	
7	0641618	1	Bolt 3/8 x 2-1/4	
8	0641810	2	Bolt 1/2 x 1-1/4	
9	0741607	3	Screw 3/8 x 0.88	
11	1001138566	1	Box, Generator Control	
11	70006552	1	Capacitor	
11	70006553	1	Relay	
13	0962520	1	Bushing, Taper	
14	2820031	AR	Insulator, Heat Shrink	
15	3251102	1	Nameplate, Generator	
17	3311801	2	Nut 1/2	
18	3580317	1	Pulley, Belt Tensioner	
19	3580319	1	Pulley, Generator	
20	4060802	1	Guard, Switch	
21	4240018	AR	Strap, Tie (Not Shown)	
22	4300157	2	Stud	
23	4360336	1	Switch, Toggle	
24	4711400	8	Washer 1/4	
25	4711600	1	Washer 3/8	
27	4791400	2	Starwasher 1/4	
28	4891800	4	Washer 1/2	
29	1001152533	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL Section)	
30	1001140397	1	Generator, 4000W Assembly (See Items 200-213 for Breakdown)	
31	1001138011	1	Mount, Generator Tensioner	
32	1001136357	1	Belt, Generator	
35	1705489	AR	Decal - Hazardous Voltage	
37	1001165368	1	Kit, Box and Breaker (See Separate Breakdown in ELECTRICAL Section)	
38	1001096172	1	Bracket	
39	0641406	2	Bolt 1/4 x 3/4	
40	3311405	2	Nut 1/4 Grade 2	
41	4010408	2	Screw M4 x 16	
42	1001091102	4	Washer M4	
43	3290405	2	Nut M4	
	1001140347	Ref	4000W GENERATOR ASSEMBLY	
201	70003709	1	Ring, Retaining	
202	70003708	1	Ring, Retaining	
203	70001966	1	Bearing, Ball	
204	70004092	1	Endbell	
205	70004099	1	Key	
206	70004676	1	Rotor Assembly	
207	70004686	1	Stator, Generator 4000W	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
208	70004678	1	Endbell	
210	70004680	1	Enclosure	
211	70004681	1	Cover, Enclosure	
212	70004682	1	Protector, Supplementary, Manual Reset	
213	70004683	1	Bushing, Strain Relief	
214	4460224	1	Connector - 6 Position (50Hz) (Not Shown - Located on Enclosure Cover)	
214	4460294	2	Pin, Male (50Hz) (Not Shown - Located on Enclosure Cover)	

FIGURE 3-77. 7500W SKYPOWER GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES) (OPTIONAL)

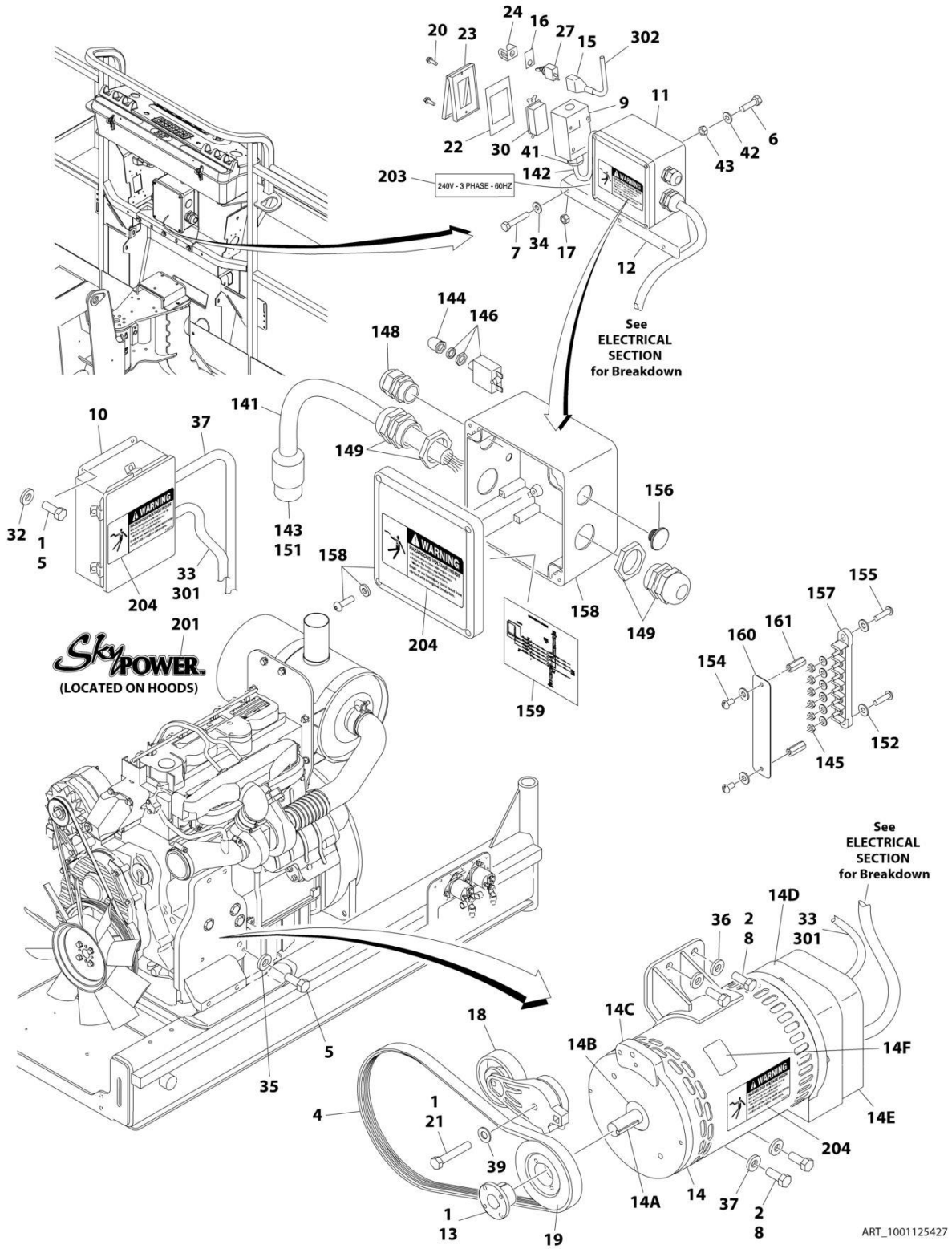


FIGURE 3-77. 7500W SKYPOWER GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125427	Ref	7500W SKYPOWER GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TD2011 ENGINES)	D
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
4	0480128	1	Belt, Generator	
5	0641404	6	Bolt 1/4 x 1/2	
6	3931016	AR	Bolt 10 x 1	
7	0641516	3	Bolt 5/16 x 2	
8	0641810	4	Bolt 1/2 x 1-1/4	
9	0860038	1	Box, Switch	
10	0861538	1	Box, Generator Control	
10	7024488	1	Card, Circuit - Generator Power (Not Shown)	
10	See Note	1	Fuse (Note: Not Available - Purchase Locally)	
10	7024489	1	Card, Circuit - Control (Not Shown)	
		Ref	Note: When replacing card, rocker switch on card must be set for required application.	
10	70000619	1	Harness, Circuit Card	
11	1001157592	1	Junction Box Assembly Options (See Items 141-161 for Breakdown)	
12	0902888	1	Bracket, Generator Junction Box	
13	0962520	1	Bushing, Taper	
14	2460048	1	Generator, 7500W	
14	70001100	1	Rotor (Includes p/n 70001384 & 70000863) (Not Shown)	
14	70001384	1	Bearing, Shaft (Rear) (Not Shown)	
14	70000863	1	Fan, Generator (Not Shown)	
14	70002088	1	Stator (Not Shown)	
14	70002297	2	Stud 1/4 x 12-7/8 (Not Shown)	
14	70003631	1	Brushholder Assembly (Not Shown) (was p/n 7024484)	
14A	70004171	1	Key	
14B	70001966	1	Bearing, Ball Radial (Located in Belt Tensioner Endbell)	
14B	70003709	1	Ring, Retaining (Small)	
14B	70003708	1	Ring, Retaining (Large)	
14C	70001953	1	Endbell, Belt Tensioner	
14D	70004169	1	Kit, Endbell (Includes Endbell, Brush Block and Shroud Assembly)	
14E	7027799	1	Block, Connector 6 Position (Not Shown)	
14E	70002460	6	Nut, Brass (Attaches p/n 7027799 to Cover) (Not Shown)	
14E	7024485	1	Breaker, Circuit 30Amp (Not Shown)	
14E	70001696	1	Boot, Breaker (Not Shown)	
14E	7026597	1	Connector with Leads (Not Shown)	
14E	7026626	1	Connector with Pins (Not Shown)	
14E	7026188	1	Clamp, Cable (Not Shown)	
14E	70002255	1	Plate, End Panel (Not Shown)	
14E	See Note	NSS	Insulator, End Panel (Note: Not Available for Purchase)	
14E	70001974	1	Decal - Terminal Connections (Not Shown)	
14F	70001973	1	Decal - Warning Moving Parts	
15	2820031	AR	Insulator, Heat Shrink	
16	3251102	1	Nameplate, Generator	
17	3311508	3	Nut 5/16	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
18	3580317	1	Pulley, Belt Tensioner	
19	3580318	1	Pulley, Generator	
20	3910606	4	Screw #6 x 3/8	
21	0641618	1	Bolt 3/8 x 2	
22	3960422	1	Gasket, AC Receptacle	
23	1001110873	1	Shield, Receptacle Cover	
24	4060802	1	Guard, Switch	
26	4240018	AR	Strap, Tie (Not Shown)	
27	4360336	1	Switch, Toggle	
30	4460346	1	Terminal, Receptacle	
32	4711400	4	Washer 1/4	
33	0100048	AR	Grease, Dielectric	
34	4751500	3	Washer 5/16	
35	4791400	2	Starwasher 1/4	
36	4891800	4	Washer 1/2	
37	4922972	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL SECTION)	
39	4711600	1	Washer 3/8	
40	0100020	AR	Sealant, Pipe (Not Shown)	
41	4460071	1	Connector, Strain Relief	
42	4751000	4	Washer #10	
43	3311005	4	Nut #10	
	1001157592	Ref	JUNCTION BOX ASSEMBLY	C
141	1060343	1.5 ft/ 0.5m	Cable, Electrical 10/4	
142	1001179154	2.5 ft/ 0.8m	Cable, 12/3	
143	1671092	1	Cover	
144	3300396	1	Cover, Fuse	
145	3311001	6	Nut #10	
146	4360070	1	Circuit Breaker - 15Amp	
148	4460425	1	Strain Relief, Terminal	
149	4460426	2	Connector, Strain Relief	
151	4460963	1	Connector	
152	4711000	10	Washer #10	
154	10702077	2	Screw #10 x 3/8	
155	10702082	2	Screw #10 x 3/4	
156	1001152525	1	Plug	
157	1001157520	1	Block, Terminal	
158	1001157521	1	Box, Junction	
159	1001157528	1	Decal - Wiring Schematic	
160	1001158007	1	Decal - PVC	
161	1001158008	2	Stand-Off	
	0272435	Ref	DECAL INSTALLATION	D
201	1705460	2	Decal - SkyPower	
202	3251243	1	Decal - 120V - 60Hz (Located at Platform Receptacle)	
203	1705375	1	Decal - 240V - 3 Phase	
204	1705387	3	Decal - Hazardous Voltage	
	1001122528	Ref	ELECTRICAL DIAGRAM COMPONENTS	B
301	1001119968	1	Generator Harness	B
301A	4460967	1	Plug, Male - 3 Position (Not Shown)	
301A	4460465	6	Socket, Female	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301B	1001117078	1	Fuseholder with Fuse (Not Shown)	
302	4922641	1	Switch, Harness	

FIGURE 3-78. 7500W SKYPOWER GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TD2011 ENGINES) (OPTIONAL)

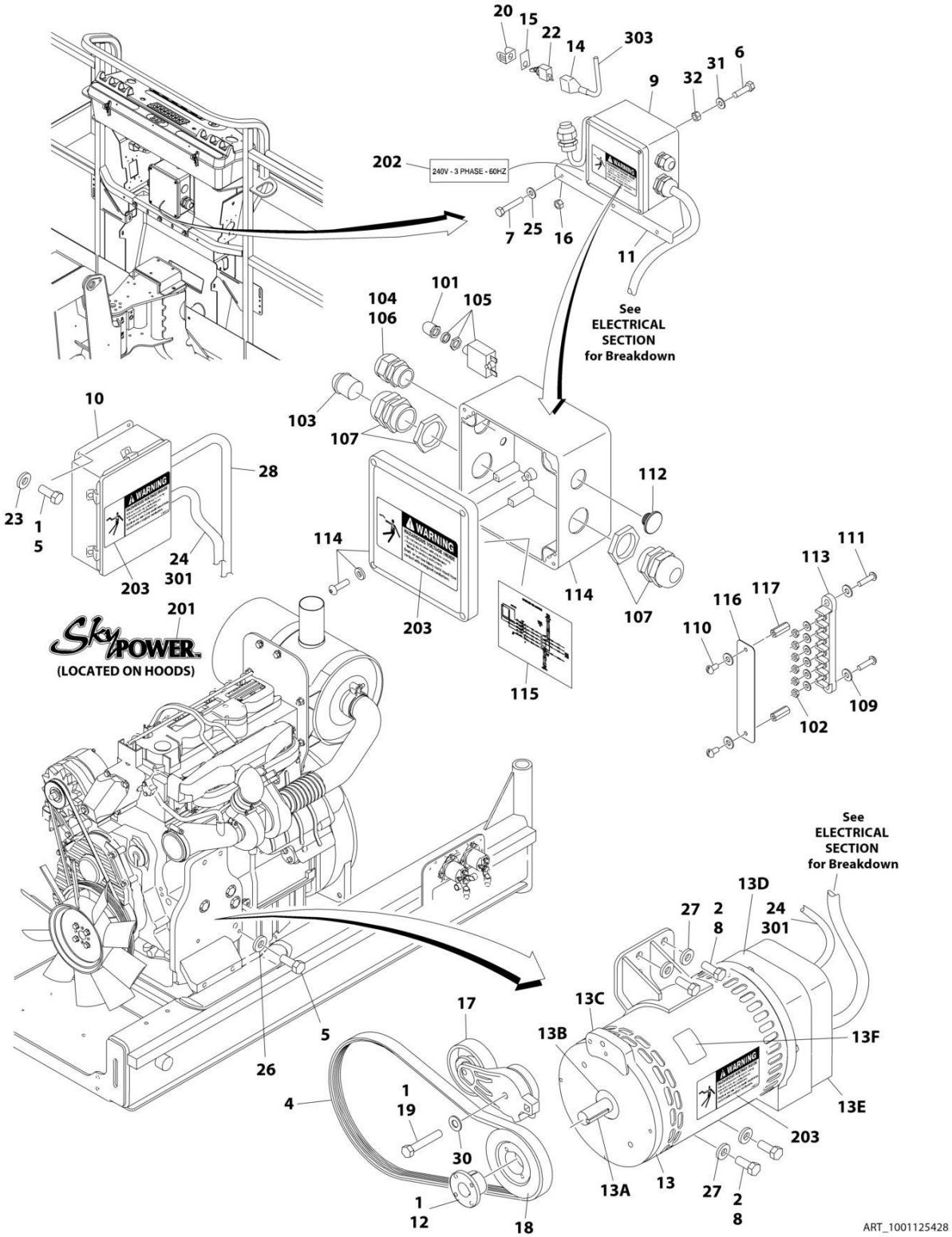


FIGURE 3-78. 7500W SKYPOWER GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TD2011 ENGINES) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125428	Ref	7500W SKYPOWER GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TD2011 ENGINES)	C
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
4	0480129	1	Belt, Generator	
5	0641404	5	Bolt 1/4 x 1/2	
6	3931016	4	Bolt 10 x 1	
7	0641516	3	Bolt 5/16 x 2	
8	0641810	4	Bolt 1/2 x 1-1/4	
9	1001157525	1	Junction Box Assembly (See Items 101-117 for Breakdown)	
10	0861572	1	Box, Generator Control	
10	7024488	1	Card, Circuit - Generator Power (Not Shown)	
10	See Note	1	Fuse (Note: Not Available - Purchase Locally)	
10	7024489	1	Card, Circuit - Control (Not Shown)	
		Ref	Note: When replacing card, rocker switch on card must be set for required application.	
10	70000619	1	Harness, Circuit Card	
11	0902888	1	Bracket, Generator Junction Box	
12	0962520	1	Bushing, Taper	
13	2460048	1	Generator, 7500W	
13	70001100	1	Rotor (Includes p/n 70001384 & 70000863) (Not Shown)	
13	70001384	1	Bearing, Shaft (Rear) (Not Shown)	
13	70000863	1	Fan, Generator (Not Shown)	
13	70002088	1	Stator (Not Shown)	
13	70002297	2	Stud 1/4 x 12-7/8	
13	70003631	1	Brushholder Assembly (Not Shown)	
13A	70004171	1	Key	
13B	70001966	1	Bearing, Ball Radial (Located in Belt Tensioner Endbell)	
13B	70003709	1	Ring, Retaining (Small)	
13B	70003708	1	Ring, Retaining (Large)	
13C	70001953	1	Endbell, Belt Tensioner	
13D	70004169	1	Kit, Endbell (Includes Endbell, Brush Block and Shroud Assembly)	
13E	7027799	1	Block, Connector 6 Position (Not Shown)	
13E	70002460	6	Nut, Brass (Attaches p/n 7027799 to Cover) (Not Shown)	
13E	7024485	1	Breaker, Circuit 30Amp (Not Shown)	
13E	70001696	1	Boot, Breaker (Not Shown)	
13E	7026597	1	Connector with Lead (Not Shown)	
13E	7026626	1	Connector with Pins (Not Shown)	
13E	7026188	1	Clamp, Cable (Not Shown)	
13E	70002255	1	Plate, End Panel (Not Shown)	
13E	See Note	1	Insulator, End Panel (Not Shown) (Note: Not Available for Purchase)	
13E	70001974	1	Decal - Terminal Connections (Not Shown)	
13F	70001973	1	Decal - Warning Moving Parts	
14	2820031	AR	Insulator, Heat Shrink	
15	3251102	1	Nameplate, Generator	
16	3311508	3	Nut 5/16	
17	3580317	1	Pulley, Belt Tensioner	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
18	3580319	1	Pulley, Generator	
19	0641618	1	Bolt 3/8 x 2	
20	4060802	1	Guard, Switch	
21	4240018	AR	Strap, Tie (Not Shown)	
22	4360336	1	Switch, Toggle	
23	4711400	4	Washer 1/4	
24	0100048	AR	Grease, Dielectric	
25	4751500	3	Washer 5/16	
26	4791400	2	Starwasher 1/4	
27	4891800	4	Washer 1/2	
28	4922972	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL SECTION)	
30	4711600	1	Washer 3/8	
31	4751000	4	Washer #10	
32	3311005	4	Nut #10	
	1001157525	Ref	JUNCTION BOX ASSEMBLY	B
101	3300396	1	Cover, Fuse	
102	3311001	6	Nut #10	
103	3520189	1	Plug	
104	3520192	1	Plug	
105	4360070	1	Circuit Breaker - 15Amp	
106	4460425	1	Strain Relief, Terminal	
107	4460426	2	Connector, Strain Relief	
109	4711000	10	Washer #10	
110	10702077	2	Screw #10 x 3/8	
111	10702082	2	Screw #10 x 3/4	
112	1001152525	1	Plug	
113	1001157520	1	Block, Terminal	
114	1001157521	1	Box, Junction	
115	1001157528	1	Decal - Wiring Schematic	
116	1001158007	1	Cover, PVC	
117	1001158008	2	Stand-Off	
	0272589	Ref	DECAL INSTALLATION	A
201	1705460	2	Decal - SkyPower	
202	1705461	1	Decal - 240V - 3 Phase	
203	1705489	3	Decal - Hazardous Voltage	
	1001122528	Ref	ELECTRICAL DIAGRAM COMPONENTS	B
301	1001119968	1	Generator Harness	B
301A	4460967	1	Plug, Male - 3 Position (Not Shown)	
301A	4460465	6	Socket, Female	
301B	1001117078	1	Fuseholder with Fuse (Not Shown)	
303	4922641	1	Switch Harness	

FIGURE 3-79. 7500W SKYPOWER GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TCD2.9L4 ENGINES) (OPTIONAL)

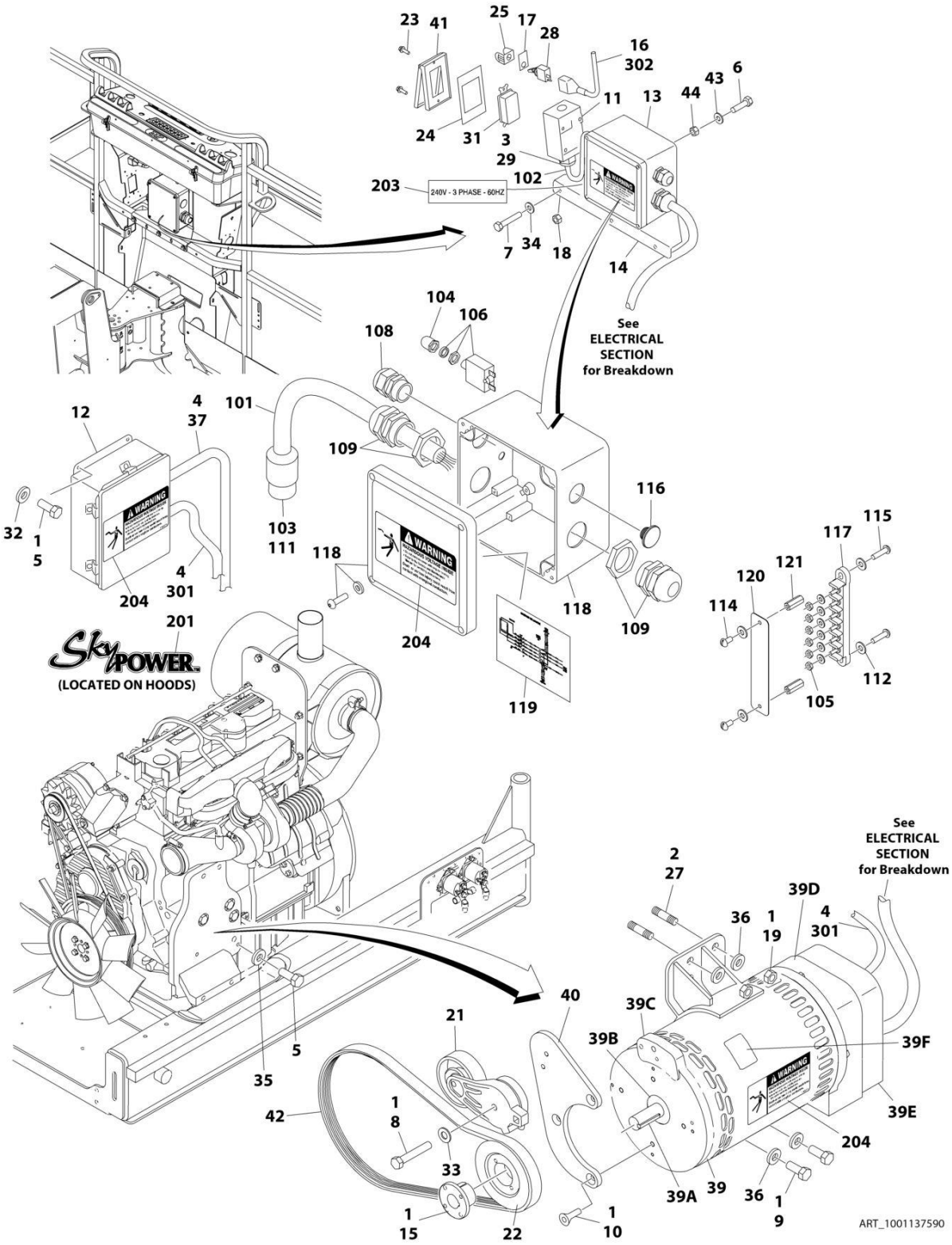


FIGURE 3-79. 7500W SKYPOWER GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TCD2.9L4 ENGINES) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001137590	Ref	7500W SKYPOWER GENERATOR INSTALLATION - 60HZ SPEC (DEUTZ TCD2.9L4 ENGINES)	G
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100020	AR	Sealant, Pipe	
4	0100048	AR	Grease, Dielectric	
5	0641404	5	Bolt 1/4 x 1/2	
6	3931016	4	Bolt 10 x 1	
7	0641516	3	Bolt 5/16 x 2	
8	0641618	1	Bolt 3/8 x 2	
9	0641810	2	Bolt 1/2 x 1-1/4	
10	0741607	3	Screw 3/8 x 7/8	
11	0860038	1	Box, Switch	
12	0861538	1	Box, Generator Control	
12	7024488	1	Card, Circuit - Generator Power (Not Shown)	
12	See Note	1	Fuse (Note: Not Available Purchase Locally)	
12	7024489	1	Card, Circuit - Control (Not Shown)	
		Ref	Note: When replacing card, rocker switch on card must be set for required application.	
12	70000619	1	Harness, Circuit Card	
13	1001157592	1	Junction Box Assembly (See Items 101-121 for Breakdown)	
14	0902888	1	Bracket, Generator Junction Box	
15	0962520	1	Bushing, Taper	
16	2820031	AR	Insulator, Heat Shrink	
17	3251102	1	Nameplate, Generator	
18	3311508	3	Nut 5/16	
19	3311801	2	Nut 1/2	
21	3580317	1	Pulley, Belt Tensioner	
22	3580318	1	Pulley, Generator	
23	3910606	AR	Screw #6 x 3/8	
24	3960422	1	Gasket, AC Receptacle	
25	4060802	1	Guard, Switch	
26	4240018	AR	Strap, Tie (Not Shown)	
27	4300157	2	Stud 1/2	
28	4360336	1	Switch, Toggle	
29	4460071	1	Connector, Strain Relief	
30	4460315	3	Terminal, Spade (Not Shown)	
31	4460346	1	Terminal, Receptacle	
32	4711400	4	Washer 1/4	
33	4711600	1	Washer 3/8	
34	4751500	3	Washer 5/16	
35	4791400	2	Starwasher 1/4	
36	4891800	4	Washer 1/2	
37	4922972	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL SECTION)	
39	1001212223	1	Generator, 7500W	
39	70001100	1	Rotor (Includes p/n 70001384 & 70000863)	
39	70001384	1	Bearing, Shaft (Rear)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
39	70000863	1	Fan, Generator	
39	70006093	1	Stater	
39	70003631	1	Brush-holder Assembly (was p/n 7024484)	
39A	70004099	NLA	Key (Use p/n 70004171)	
39B	70001966	1	Bearing, Ball Radial (Located in Belt Tensioner Endbell)	
39B	70003709	1	Ring, Retaining (Small)	
39B	70003708	1	Ring, Retaining (Large)	
39C	70004092	1	Endbell, Belt Tensioner	
39D	70004094	1	Endbell, Brush Block	
39E	70006094	1	Shroud Assembly	
39E	7027799	1	Block, Connector - 6 Position (Not Shown)	
39E	70002460	6	Nut, Brass (Attaches p/n 7027799 to Cover) (Not Shown)	
39E	70006095	1	Breaker, Circuit 30Amp (Not Shown)	
39E	70006096	1	Boot, Breaker (Not Shown)	
39E	7026597	1	Connector with Leads (Not Shown)	
39E	7026626	1	Connector with Pins (Not Shown)	
39E	70004098	1	Clamp, Cable (Not Shown)	
39E	70006097	1	Plate, End Panel (Not Shown)	
39E	70002291	1	Insulator, End Panel Generator (Not Shown)	
39E	70001974	1	Decal - Terminal Connections (Not Shown)	
39F	70001973	1	Decal - Warning Moving Parts	
40	1001138011	1	Bracket	
41	1001110873	1	Shield, Receptacle Cover	
42	1001142645	1	Belt, Generator	
43	4751000	4	Washer #10	
44	3311005	4	Nut #10	
	1001157592	Ref	JUNCTION BOX ASSEMBLY	C
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	
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	
	0272435	Ref	DECAL INSTALLATION	D
201	1705460	2	Decal - SkyPower	
202	3251243	1	Decal - 120V - 60Hz (Not Shown - Located at Platform Receptacle)	
203	1705375	1	Decal - 240V - 3 Phase	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
204	1705387	3	Decal - Hazardous Voltage	
	1001122528	Ref	ELECTRICAL DIAGRAM COMPONENTS	B
301	1001119968	1	Generator Harness	B
301A	4460967	1	Plug, Male - 3 Position (Not Shown)	
301A	4460465	6	Socket, Female	
301B	1001117078	1	Fuseholder with Fuse (Not Shown)	
302	4922641	1	Switch Harness	

FIGURE 3-80. 7500W SKYPOWER GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES) (OPTIONAL)

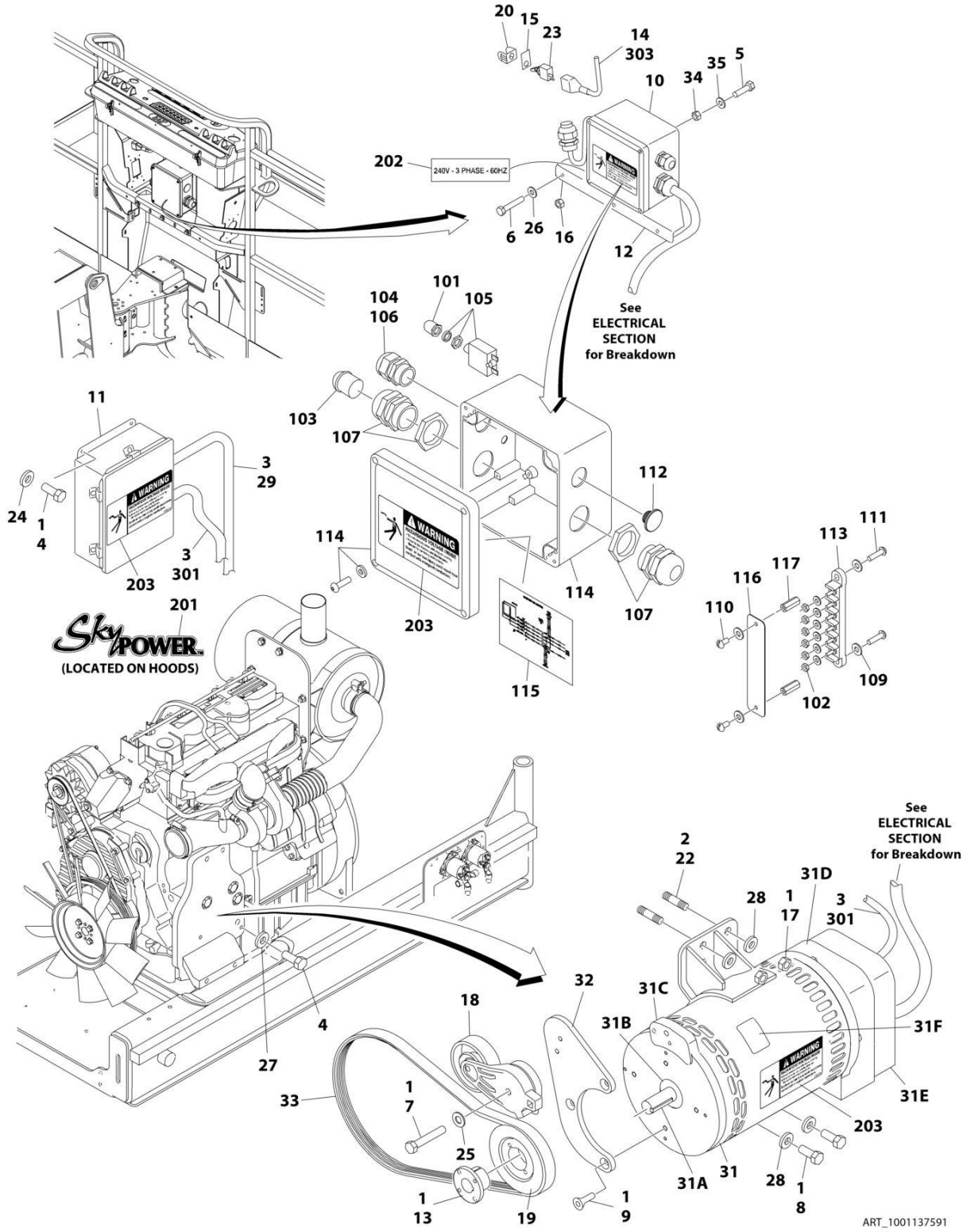


FIGURE 3-80. 7500W SKYPOWER GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001137591	Ref	7500W SKYPOWER GENERATOR INSTALLATION - 50HZ SPEC (DEUTZ TCD2.9L4 ENGINES)	D
		Ref	Note: See ELECTRICAL SECTION for Boom Cable Installation.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0100048	AR	Grease, Dielectric	
4	0641404	5	Bolt 1/4 x 1/2	
5	3931016	4	Bolt 10 x 1	
6	0641516	3	Bolt 5/16 x 2	
7	0641618	1	Bolt 3/8 x 2	
8	0641810	2	Bolt 1/2 x 1-1/4	
9	0741607	3	Screw 3/8 x 7/8	
10	1001157525	1	Junction Box Assembly (See Items 101-117 for Breakdown)	
11	0861572	1	Box, Generator Control	
11	7024488	1	Card, Circuit - Generator Power (Not Shown)	
11	See Note	1	Fuse (Note: Not Available - Purchase Locally)	
11	7024489	1	Card, Circuit - Control (Not Shown)	
		Ref	Note: When replacing card, rocker switch on card must be set for required application.	
11	70000619	1	Harness, Circuit Card	
12	0902888	1	Bracket, Generator Junction Box	
13	0962520	1	Bushing, Taper	
14	2820031	AR	Insulator, Heat Shrink	
15	3251102	1	Nameplate, Generator	
16	3311508	3	Nut 5/16	
17	3311801	2	Nut 1/2	
18	3580317	1	Pulley, Belt Tensioner	
19	3580319	1	Pulley, Generator	
20	4060802	1	Guard, Switch	
21	4240018	AR	Strap, Tie (Not Shown)	
22	4300157	2	Stud 1/2	
23	4360336	1	Switch, Toggle	
24	4711400	4	Washer 1/4	
25	4711600	1	Washer 3/8	
26	4751500	3	Washer 5/16	
27	4791400	2	Starwasher 1/4	
28	4891800	4	Washer 1/2	
29	4922972	1	Harness, Generator Cable (See Separate Breakdown in ELECTRICAL Section)	
31	1001212223	1	Generator, 7500W	
31	70001100	1	Rotor (Includes p/n 70001384 & 70000863) (Not Shown)	
31	70001384	1	Bearing, Shaft (Rear) (Not Shown)	
31	70000863	1	Fan, Generator (Not Shown)	
31	70006093	1	Stater (Not Shown)	
31	70003631	1	Brush-holder Assembly (Not Shown)	
31A	70004099	NLA	Key (Use p/n 70004171)	
31B	70001966	1	Bearing, Ball Radial (Located in Belt Tensioner Endbell)	
31B	70003709	1	Ring, Retaining (Small)	
31B	70003708	1	Ring, Retaining (Large)	

SECTION 3 - ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31C	70004092	1	Endbell, Belt Tensioner	
31D	70004094	1	Endbell, Brush Block	
31E	70006094	1	Shroud Assembly	
31E	7027799	1	Block, Connector - 6 Position (Not Shown)	
31E	70002460	6	Nut, Brass (Attaches p/n 7027799 to Cover) (Not Shown)	
31E	70006095	1	Breaker, Circuit 30Amp (Not Shown)	
31E	70006096	1	Boot, Breaker (Not Shown)	
31E	7026597	1	Connector with Leads (Not Shown)	
31E	7026626	1	Connector with Pins (Not Shown)	
31E	70004098	1	Clamp, Cable (Not Shown)	
31E	70006097	1	Plate, End Panel (Not Shown)	
31E	70002291	1	Insulator, End Panel (Not Shown)	
31E	70001974	1	Decal - Terminal Connections (Not Shown)	
31F	70001973	1	Decal - Warning Moving Parts	
32	1001138011	1	Bracket	
33	1001136357	1	Belt, Generator	
34	3311005	4	Nut #10	
35	4751000	4	Washer #10	
	1001157525	Ref	JUNCTION BOX ASSEMBLY	B
101	3300396	1	Cover, Fuse	
102	3311001	6	Nut #10	
103	3520189	1	Plug (50Hz Spec Only)	
104	3520192	1	Plug	
105	4360070	1	Circuit Breaker - 15Amp	
106	4460425	1	Strain Relief, Terminal	
107	4460426	2	Connector, Strain Relief	
109	4711000	10	Washer #10	
110	10702077	2	Screw #10 x 3/8	
111	10702082	2	Screw #10 x 3/4	
112	1001152525	1	Plug	
113	1001157520	1	Block, Terminal	
114	1001157521	1	Box, Junction	
115	1001157528	1	Decal - Wiring Schematic	
116	1001158007	1	Cover, PVC	
117	1001158008	2	Stand-Off	
	0272589	Ref	DECAL INSTALLATION	A
201	1705460	2	Decal - SkyPower	
202	1705461	1	Decal - 240V - 3 Phase	
203	1705489	3	Decal - Hazardous Voltage	
	1001122528	Ref	ELECTRICAL DIAGRAM COMPONENTS	B
301	1001119968	1	Generator Harness (With UGM)	B
301A	4460967	1	Plug, Male - 3 Position (Not Shown)	
301A	4460465	6	Socket, Female	
301B	1001117078	1	Fuseholder with Fuse (Not Shown)	
303	4922641	1	Switch Harness	

SECTION 4 - BOOM

SECTION 4 - BOOM

FIGURE 4-1. BOOM AND CYLINDER INSTALLATION - WITHOUT COLD WEATHER PLUS PACKAGE

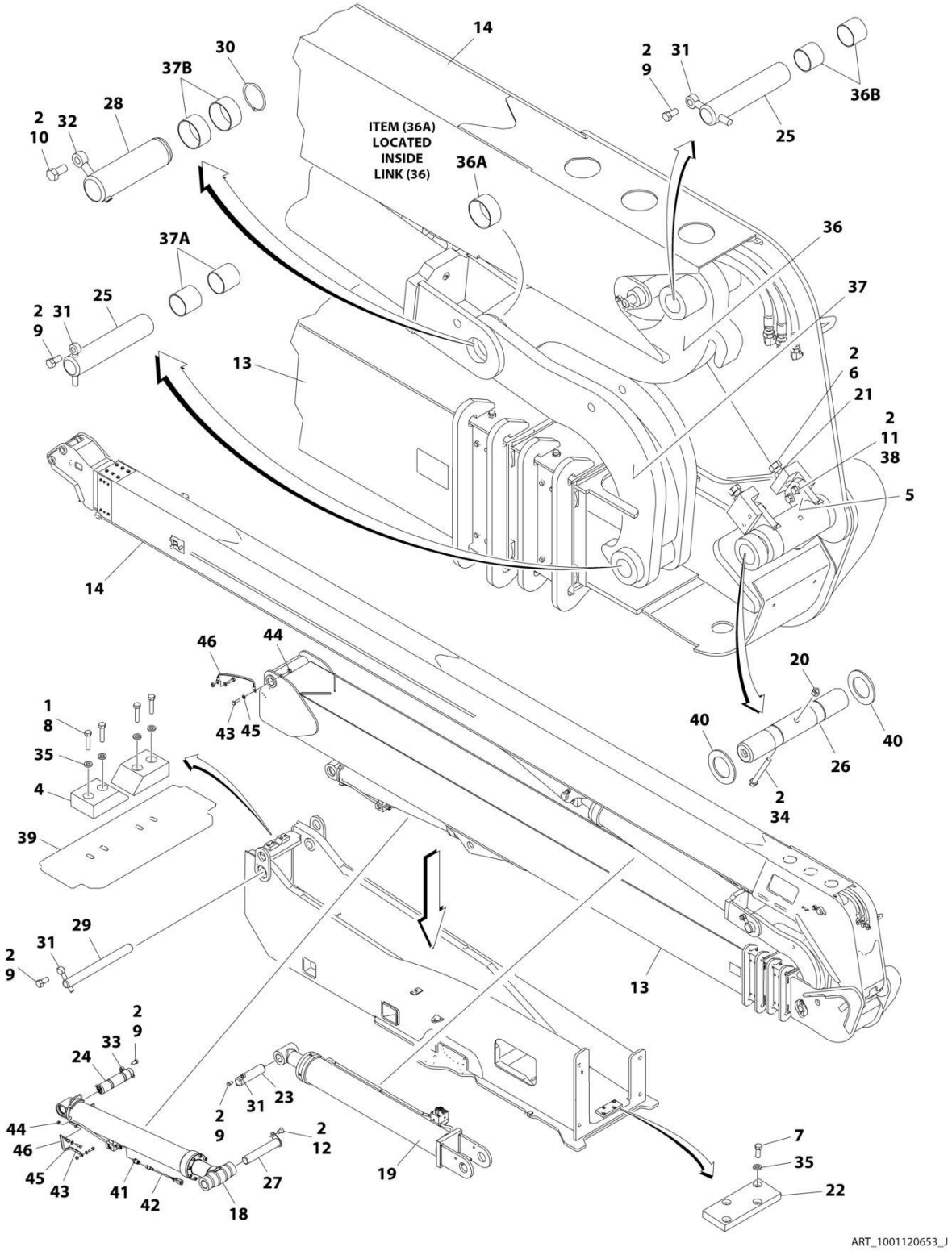


FIGURE 4-1. BOOM AND CYLINDER INSTALLATION - WITHOUT COLD WEATHER PLUS PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120653	Ref	BOOM AND CYLINDER INSTALLATION - WITHOUT COLD WEATHER PLUS PACKAGE	J
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
4	0561380	2	Rest, Boom	
5	0561547	2	Block, Clamping	
6	0642624	2	Bolt 1 x 3	
7	0641608	4	Bolt 3/8 x 1	
8	0641613	4	Bolt 3/8 x 1-5/8	
9	0642212	5	Bolt 3/4 x 1-1/2	
10	0642616	1	Bolt 1 x 2	
11	0682016	4	Bolt 5/8 x 2 Grade 8	
12	0742210	1	Screw 3/4 x 1-1/4	
13	0801370	1	Tower Boom Assembly (See Separate Breakdown in this Section)	
14	0801371	1	Main Boom Assembly (See Separate Breakdown in this Section)	
18	1001228077	1	Tower Lift Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
19	1001251078	1	Main Lift Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
20	3272001	1	Nut 5/8 Grade 8	
21	3312602	2	Nut 1	
22	3340927	1	Pad	
23	3422920	1	Pin	
24	3423209	1	Pin, Load Sensing	
25	3423061	2	Pin	
26	3423062	1	Pin	
27	3423063	1	Pin	
28	3423064	1	Pin	
29	3423065	1	Pin	
30	3760475	1	Ring, Retaining	
31	3841287	4	Keeper, Pin	
32	3841356	1	Keeper, Pin	
33	3841581	1	Keeper, Pin	
34	0682048	1	Bolt 5/8 x 6 Grade 8	
35	4711600	8	Washer 3/8	
36	3010133	1	Link, Upper	
36A	0440273	1	Bearing	
36B	0962297	2	Bushing	
37	3010134	1	Link, Lower	
37A	0962033	2	Bushing	
37B	0962122	2	Bushing	
38	4892000	4	Washer 5/8	
39	3380547	1	Deflector	
40	4740492	1	Thrustwasher	
41	1001253593	1	Switch, Pressure Transducer	
42	1001228498	1	Harness, Pressure Transducer (See Separate Breakdown in ELECTRICAL Section)	
43	0761015	4	Bolt M10 x 35	
44	3291007	4	Nut M10	
45	4812000	4	Washer M10	

SECTION 4 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	1001212243	2	Cable	

FIGURE 4-2. BOOM AND CYLINDER INSTALLATION - WITH COLD WEATHER PLUS PACKAGE

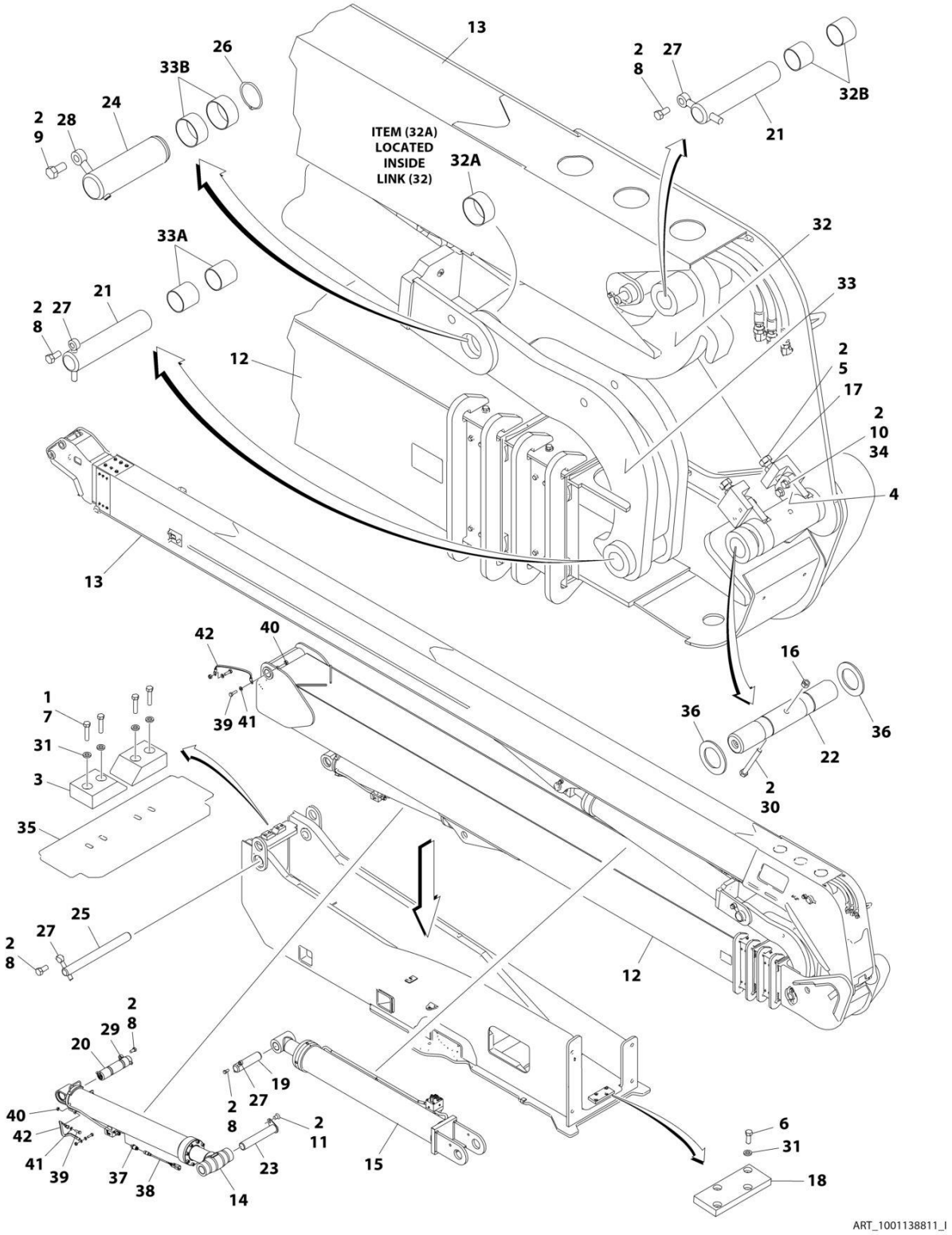


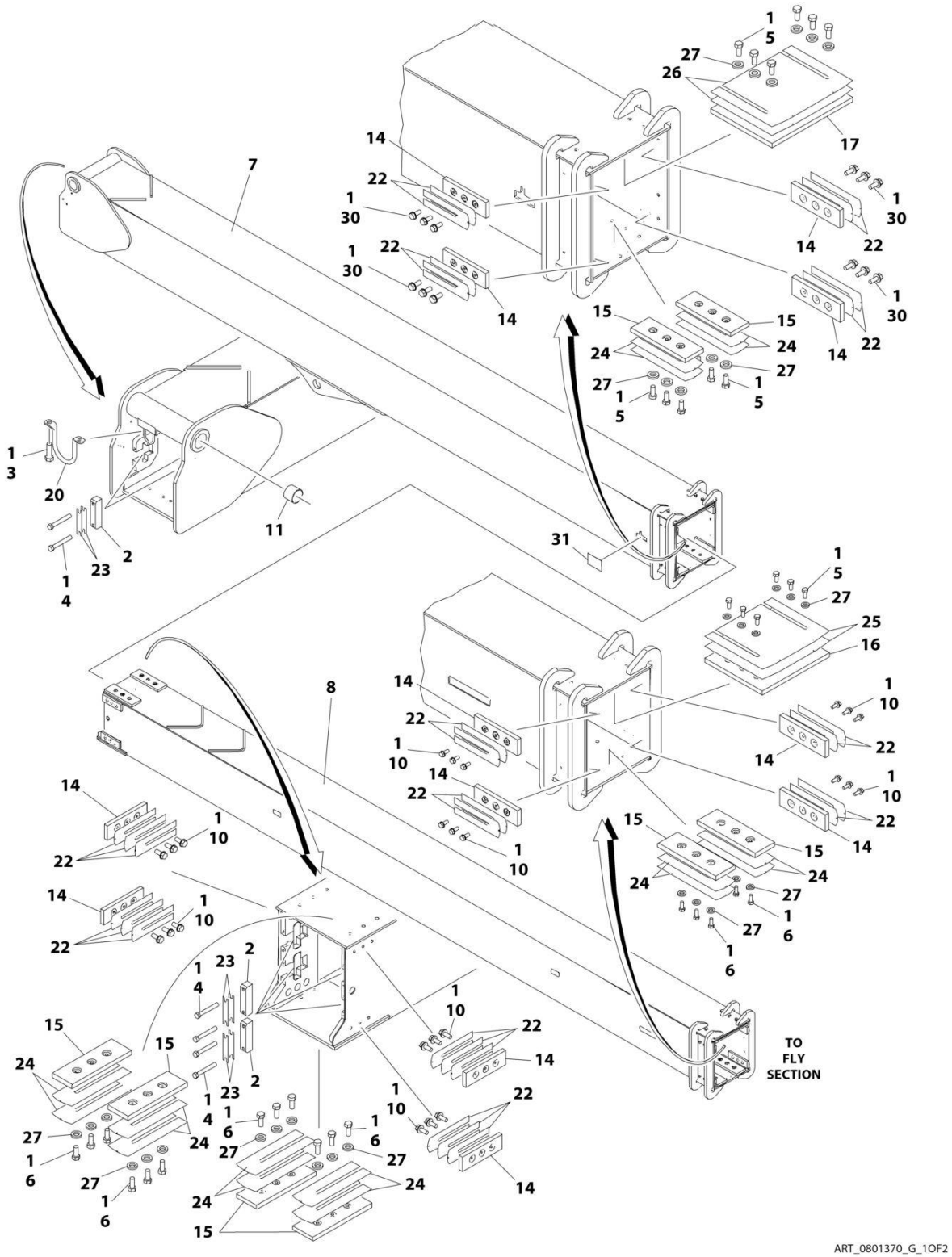
FIGURE 4-2. BOOM AND CYLINDER INSTALLATION - WITH COLD WEATHER PLUS PACKAGE

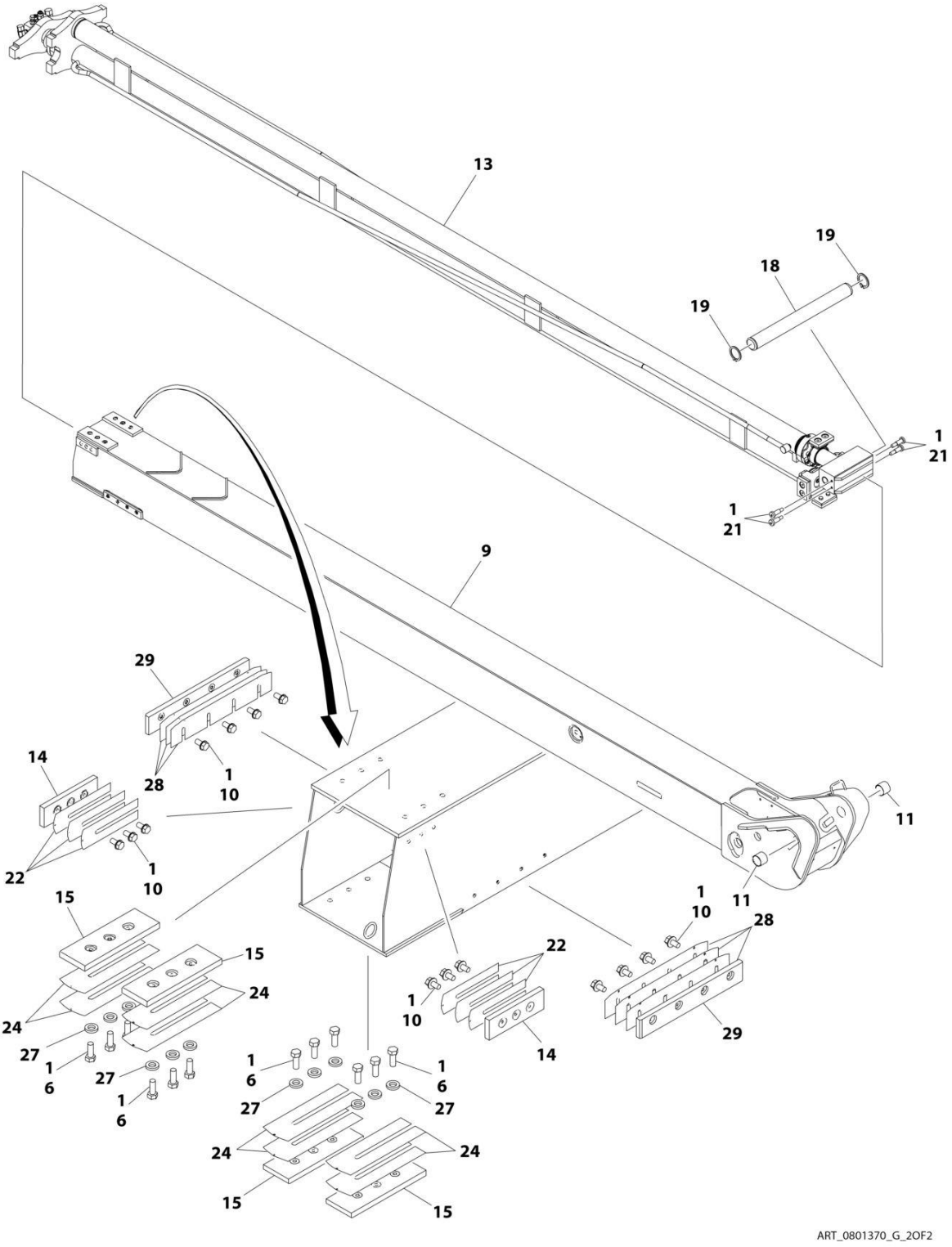
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001138811	Ref	BOOM AND CYLINDER INSTALLATION - WITH COLD WEATHER PLUS PACKAGE	I
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0561380	2	Rest, Boom	
4	0561547	2	Block, Clamping	
5	0642624	2	Bolt 1 x 3	
6	0641608	4	Bolt 3/8 x 1	
7	0641613	4	Bolt 3/8 x 1-5/8	
8	0642212	5	Bolt 3/4 x 1-1/2	
9	0642616	1	Bolt 1 x 2	
10	0682016	4	Bolt 5/8 x 2 Grade 8	
11	0742210	1	Screw 3/4 x 1-1/4	
12	0801370	1	Tower Boom Assembly (See Separate Breakdown in this Section)	
13	1001138812	1	Main Boom Assembly (See Separate Breakdown in this Section)	
14	1001228077	1	Tower Lift Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
15	1001251078	1	Main Lift Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
16	3272001	1	Nut 5/8 Grade 8	
17	3312602	1	Nut 1	
18	3340927	1	Pad	
19	3422920	1	Pin	
20	3423209	1	Pin, Load Sensing	
21	3423061	2	Pin	
22	3423062	1	Pin	
23	3423063	1	Pin	
24	3423064	1	Pin	
25	3423065	1	Pin	
26	3760475	1	Ring, Retaining	
27	3841287	4	Keeper, Pin	
28	3841356	1	Keeper, Pin	
29	3841581	1	Keeper, Pin	
30	0682048	1	Bolt 5/8 x 6 Grade 8	
31	4711600	8	Washer 3/8	
32	3010133	1	Link, Upper	
32A	0440273	1	Bearing	
32B	0962297	2	Bushing	
33	3010134	1	Link, Lower	
33A	0962033	2	Bushing	
33B	0962122	2	Bushing	
34	4892000	4	Washer 5/8	
35	3380547	1	Deflector	
36	4740492	2	Thrustwasher	
37	1001253593	1	Switch, Pressure Transducer	
38	1001228498	1	Harness, Pressure Transducer (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
39	0761015	4	Bolt M10 x 35	
40	3291007	4	Nut M10	
41	4812000	4	Washer M10	

SECTION 4 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	1001212243	2	Cable	

FIGURE 4-3. TOWER BOOM ASSEMBLY

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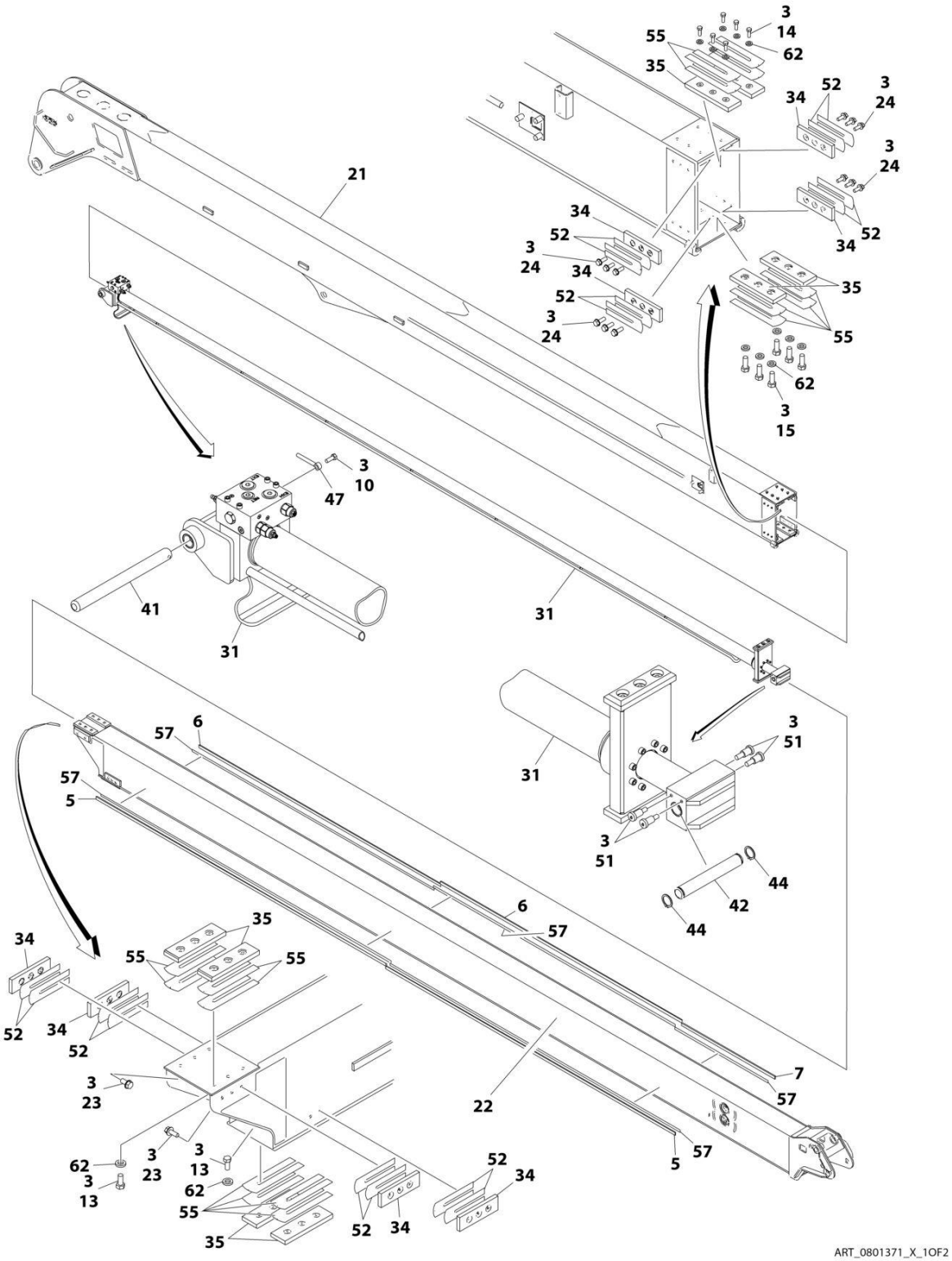
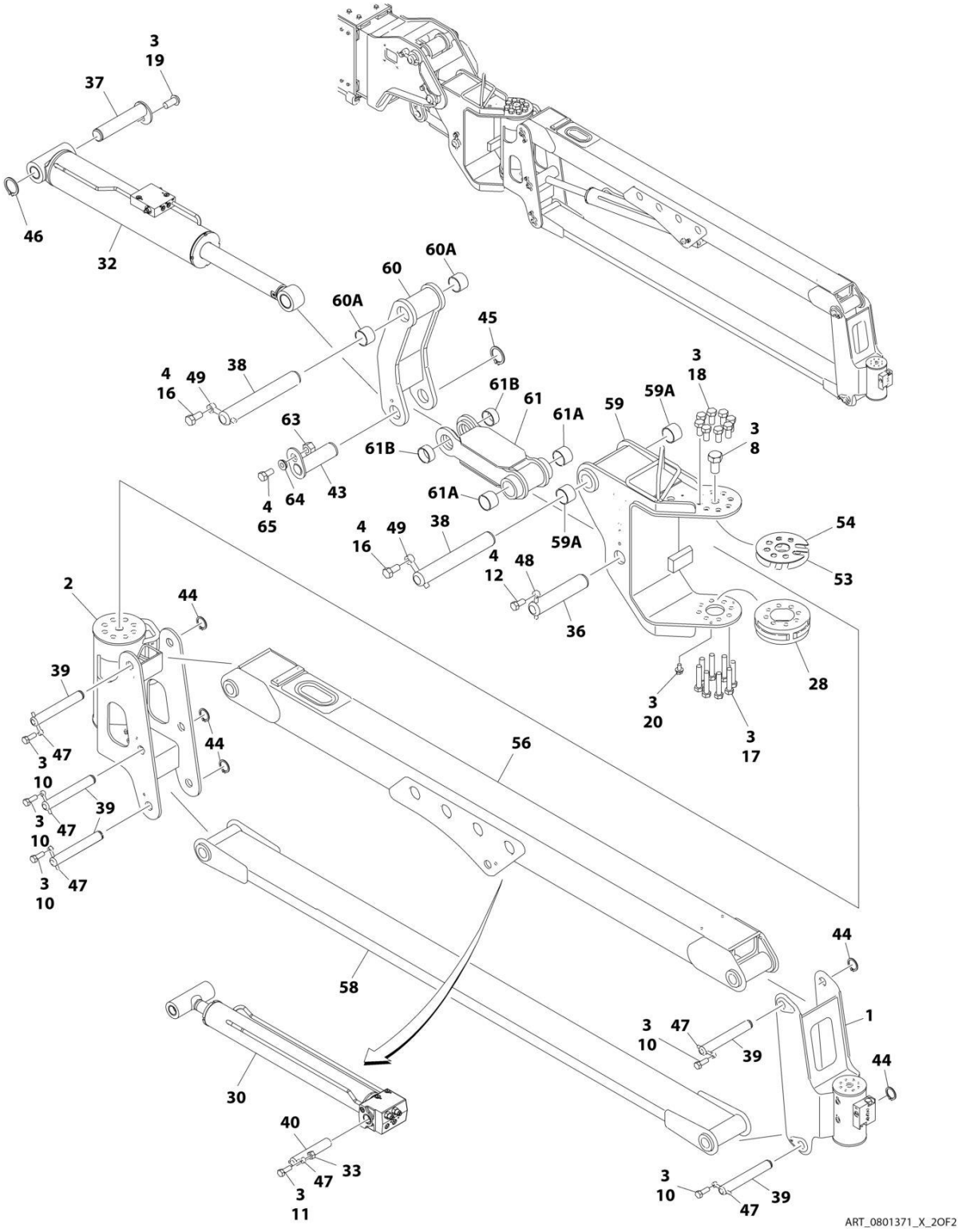
ART_0801370_G_2OF2

FIGURE 4-3. TOWER BOOM ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0801370	Ref	TOWER BOOM ASSEMBLY	G
1	0100011	AR	Compound, Locking	
2	0561533	6	Block, Trunnion Keeper	
3	0641604	2	Bolt 3/8 x 1/2	
4	0641622	12	Bolt 3/8 x 2-3/4	
5	0641809	18	Bolt 1/2 x 1-1/8	
6	0641810	30	Bolt 1/2 x 1-1/4	
7	0801365	1	Base, Boom	
8	0801366	1	Mid, Boom	
9	0801367	1	Fly, Boom	
10	0811606	38	Screw 3/8 x 3/4	
11	0962297	4	Bushing	
13	1001251032	1	Tower Telescope Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
14	3340878	14	Pad, Wear	
15	3340978	12	Pad, Wear	
16	3340979	1	Pad, Wear	
17	3340980	1	Pad, Wear	
18	3423066	1	Pin	
19	3760133	2	Ring, Retaining	
20	3811340	1	Loop, Hose	
21	3900269	4	Bolt 1/2 x 1	
22	4070864	34	Shim #16 Gauge	
23	4071031	12	Shim, Trunnion Keeper	
24	4071067	24	Shim #18 Gauge	
25	4071069	2	Shim #18 Gauge	
26	4071071	2	Shim #18 Gauge	
27	4891800	48	Washer 1/2	
28	4071081	6	Shim #18 Gauge	
29	4700014	2	Pad, Wear	
30	0811607	12	Screw 3/8 x 7/8	
31	1671013	1	Cover	
32	3020042	AR	Grease (Not Shown)	

FIGURE 4-4. MAIN BOOM ASSEMBLY - WITHOUT COLD WEATHER PLUS PACKAGE

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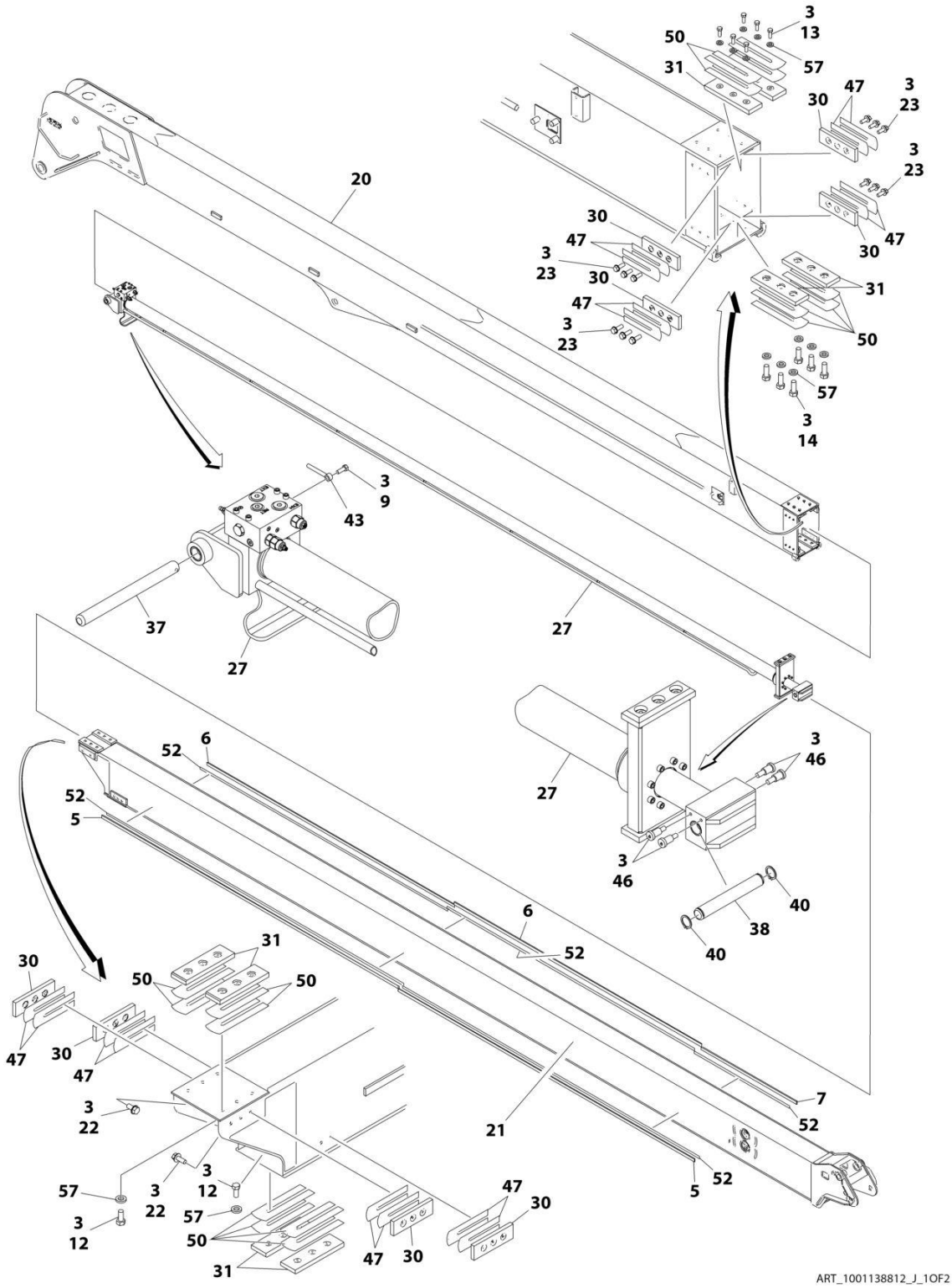
ART_0801371_X_2OF2

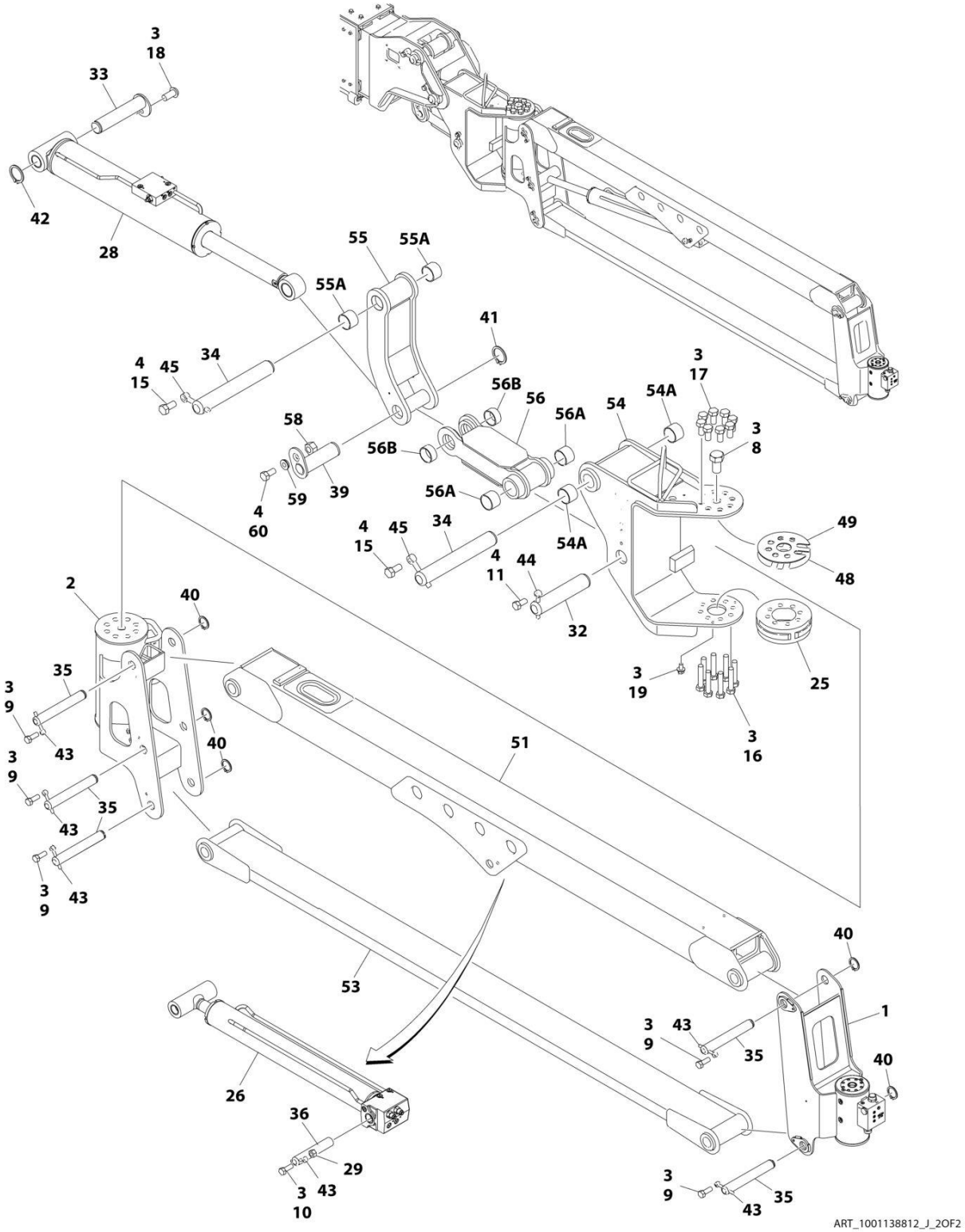
FIGURE 4-4. MAIN BOOM ASSEMBLY - WITHOUT COLD WEATHER PLUS PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0801371	Ref	MAIN BOOM ASSEMBLY - WITHOUT COLD WEATHER PLUS PACKAGE	X
1	1001178247	1	Actuator Assembly (Platform Rotate) (See Separate Breakdown in this Section)	
2	1001178248	1	Actuator Assembly (Jib Rotate) (See Separate Breakdown in this Section)	
3	0100011	AR	Compound, Locking	
4	0100019	AR	Compound, Locking	
5	1001106483	2	Bar, Fiberglass	
6	1001106475	2	Bar, Fiberglass	
7	1001106476	1	Bar, Fiberglass	
8	0630558	1	Bolt, Special	
10	0641607	6	Bolt 3/8 x 7/8	
11	0641610	1	Bolt 3/8 x 1-1/4	
12	0641808	1	Bolt 1/2 x 1-1/8	
13	0641809	12	Bolt 1/2 x 1	
14	0641810	6	Bolt 1/2 x 1-1/4	
15	0641813	6	Bolt 1/2 x 1-5/8	
16	0642010	2	Bolt 5/8 x 1-1/4	
17	0682028	8	Bolt 5/8 x 3-1/2 Grade 8	
18	0682212	8	Bolt 3/4 x 1-1/2 Grade 8	
19	0741806	1	Screw 1/2 x 3/4	
20	0791606	2	Screw 3/8 x 3/4	
21	0801497	1	Base, Boom	
22	0801369	1	Fly, Boom	
23	0811606	12	Screw 3/8 x 3/4	
24	0811607	12	Screw 3/8 x 7/8	
28	1100141	1	Cam	
30	1001251025	1	Jib Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
31	1001251080	1	Telescope Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
32	1001251034	1	Platform Level Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
33	3311605	1	Nut 3/8	
34	3340878	8	Pad, Wear	
35	3340974	8	Pad, Wear	
36	3422178	1	Pin	
37	3422937	1	Pin	
38	1001119899	2	Pin	
39	3422957	5	Pin	
40	3422958	1	Pin	
41	3423058	1	Pin	
42	3423059	1	Pin	
43	3423190	1	Pin	
44	3760133	7	Ring, Retaining	
45	3760217	1	Ring, Retaining	
46	3760233	1	Ring, Retaining	
47	3841143	7	Keeper, Pin	
48	3841203	1	Keeper, Pin	
49	3841258	2	Keeper, Pin	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	3900259	4	Bolt, Shoulder	
52	4070864	16	Shim #18 Gauge	
53	4071044	1	Shim #18 Gauge	
54	4071045	1	Shim #11 Gauge	
55	4071073	16	Shim #18 Gauge	
56	4846482	1	Link, Jib (Upper)	
56	0961951	4	Bushing	
57	4420060	52 ft/16m	Tape, Double-Sided	
58	0801550	1	Link, Jib (Lower)	
58	0961951	4	Bushing	
59	4630006	1	Pivot	
59A	0962224	2	Bushing	
60	1001200839	1	Link (Upper)	
60A	0962224	2	Bushing	
61	3010136	1	Link (Lower)	
61A	0962224	2	Bushing	
61B	0962556	2	Bushing	
62	4891800	24	Washer 1/2	
63	3272001	1	Nut 5/8	
64	4100101	1	Sleeve, Pin Retainer	
65	0682014	1	Bolt 5/8 x 1-3/4	
66	3020042	AR	Lube, Super (Not Shown)	

FIGURE 4-5. MAIN BOOM ASSEMBLY - WITH COLD WEATHER PLUS PACKAGE

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ART_1001138812_J_2OF2

FIGURE 4-5. MAIN BOOM ASSEMBLY - WITH COLD WEATHER PLUS PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001138812	Ref	MAIN BOOM ASSEMBLY - WITH COLD WEATHER PLUS PACKAGE	J
1	1001178247	1	Actuator Assembly (Platform Rotate) (See Separate Breakdown in this Section)	
2	1001178248	1	Actuator Assembly (Jib Rotate) (See Separate Breakdown in this Section)	
3	0100011	AR	Compound, Locking	
4	0100019	AR	Compound, Locking	
5	1001106483	2	Bar, Fiberglass	
6	1001106475	2	Bar, Fiberglass	
7	1001106476	1	Bar, Fiberglass	
8	0630558	1	Bolt, Special	
9	0641607	6	Bolt 3/8 x 7/8	
10	0641610	1	Bolt 3/8 x 1-1/4	
11	0641808	1	Bolt 1/2 x 1-1/8	
12	0641809	12	Bolt 1/2 x 1	
13	0641810	6	Bolt 1/2 x 1-1/4	
14	0641813	6	Bolt 1/2 x 1-5/8	
15	0642010	2	Bolt 5/8 x 1-1/4	
16	0682028	8	Bolt 5/8 x 3-1/2 Grade 8	
17	0682212	8	Bolt 3/4 x 1-1/2 Grade 8	
18	0741806	1	Screw 1/2 x 3/4	
19	0791606	2	Screw 3/8 x 3/4	
20	0801497	1	Base, Boom	
21	0801369	1	Fly, Boom	
22	0811606	12	Screw 3/8 x 3/4	
23	0811607	12	Screw 3/8 x 7/8	
25	1100141	1	Cam	
26	1001251025	1	Jib Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
27	1001251080	1	Telescope Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
28	1001251034	1	Platform Level Cylinder Assembly (See Separate Breakdown in CYLINDER Section)	
29	3311605	1	Nut 3/8	
30	3340878	8	Pad, Wear	
31	3340974	8	Pad, Wear	
32	3422178	1	Pin	
33	3422937	1	Pin	
34	1001119899	2	Pin	
35	3422957	5	Pin	
36	3422958	1	Pin	
37	3423058	1	Pin	
38	3423059	1	Pin	
39	3423190	1	Pin	
40	3760133	7	Ring, Retaining	
41	3760217	1	Ring, Retaining	
42	3760233	1	Ring, Retaining	
43	3841143	7	Keeper, Pin	
44	3841203	1	Keeper, Pin	
45	3841258	2	Keeper, Pin	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	3900259	4	Bolt, Shoulder	
47	4070864	16	Shim #18 Gauge	
48	4071044	1	Shim #18 Gauge	
49	4071045	1	Shim #11 Gauge	
50	4071073	16	Shim #18 Gauge	
51	4846482	1	Link, Jib (Upper)	
51	0961951	1	Bushing	
52	4420060	52 ft/16m	Tape, Double-Sided	
53	0801550	1	Link, Jib (Lower)	
53	0961951	1	Bushing	
54	4630006	1	Pivot	
54A	0962224	2	Bushing	
55	1001200839	1	Link (Upper)	
55A	0962224	2	Bushing	
56	3010136	1	Link (Lower)	
56A	0962224	2	Bushing	
56B	0962556	2	Bushing	
57	4891800	24	Washer 1/2	
58	3272001	1	Nut 5/8	
59	4100101	1	Sleeve, Pin Retainer	
60	0682014	1	Bolt 5/8 x 1-3/4	
61	3020042	AR	Lube, Super (Not Shown)	

FIGURE 4-6. PLATFORM ROTATE ASSEMBLY

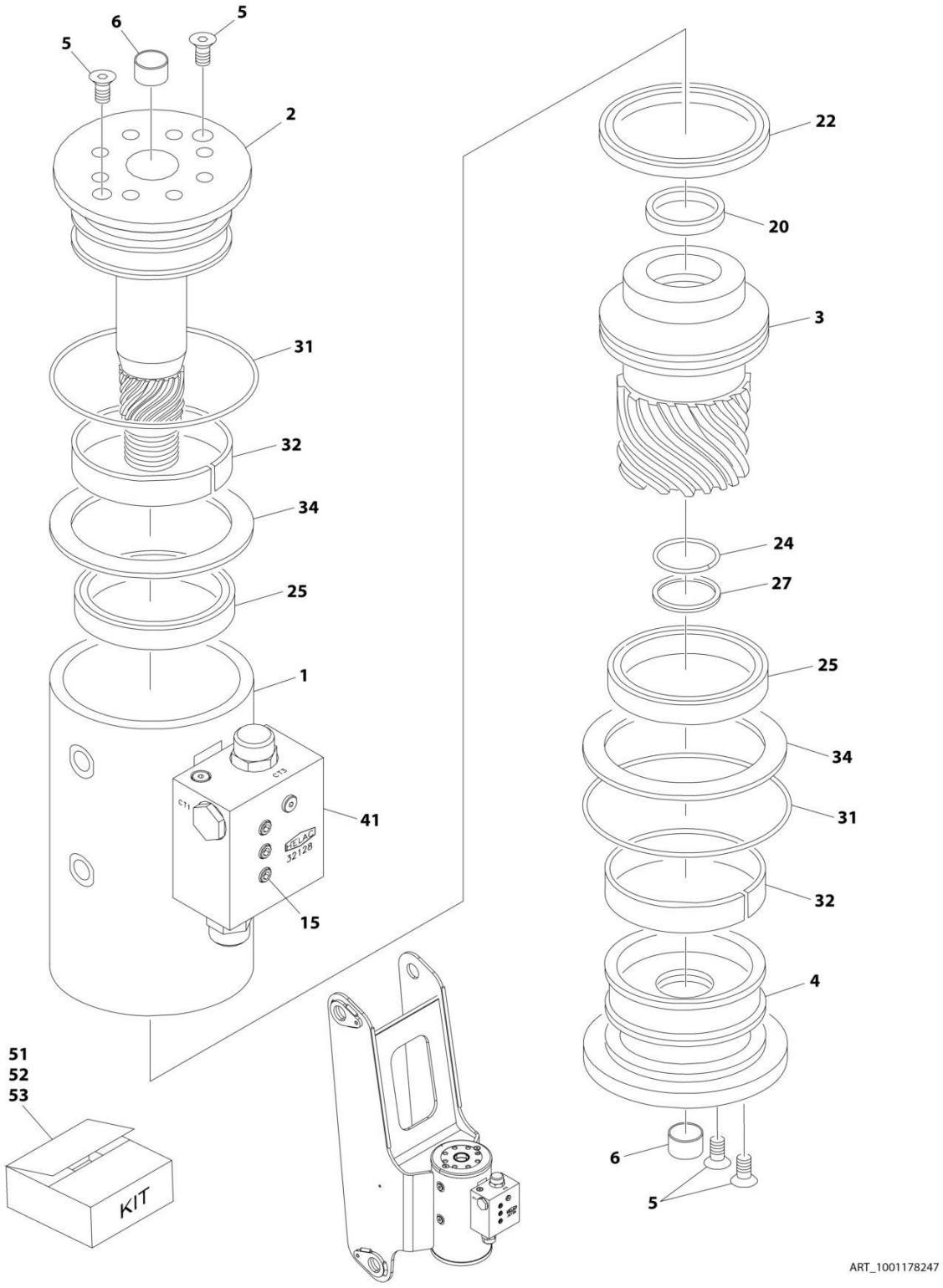


FIGURE 4-6. PLATFORM ROTATE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178247	Ref	PLATFORM ROTATE ASSEMBLY	A
1	See Note	NSS	Case/Bracket Weldment (Note: Not Available - Purchase Complete Assembly)	
2	7017162	1	Shaft	
3	7017163	1	Sleeve, Piston	
4	7017164	1	Cap, End	
5	See Note	AR	Screw (Note: See Item 53 for Replacement)	
5	See Note	AR	Dowel Pin (Note: See Item 53 for Replacement)	
6	7017195	2	Bushing	
15	See Note	NSS	Capscrew 1/4 x 1-1/2 Grade 8 (Note: Not Available for Purchase)	
20	See Note	1	Seal, Rod (Note: See Item 51 for Replacement Options)	
22	See Note	1	Seal, Piston (Note: See Item 51 for Replacement Options)	
24	See Note	1	Seal, Cap (Note: See Item 51 for Replacement Options)	
25	See Note	2	Packing, Bearing (Note: See Item 51 for Replacement Options)	
27	See Note	1	Ring, Cap Back-up (Note: See Item 51 for Replacement Options)	
31	See Note	2	Seal (Note: See Item 51 for Replacement Options)	
32	See Note	2	Bearing, Shaft (Note: See Item 52 for Replacement)	
34	See Note	2	Thrustwasher (Note: See Item 52 for Replacement)	
41	70001639	1	Motion Control Valve Assembly (Cartridges not serviced separately)	
51	70000342	1	Seal Kit (Includes Items 20, 22, 24, 25, 27 & 31)	
52	7017159	1	Bearing Kit (Includes Items 32 & 34)	
53	7017142	1	Hardware Kit (Includes Item 5 and Plugs)	

FIGURE 4-7. JIB ROTATE ASSEMBLY

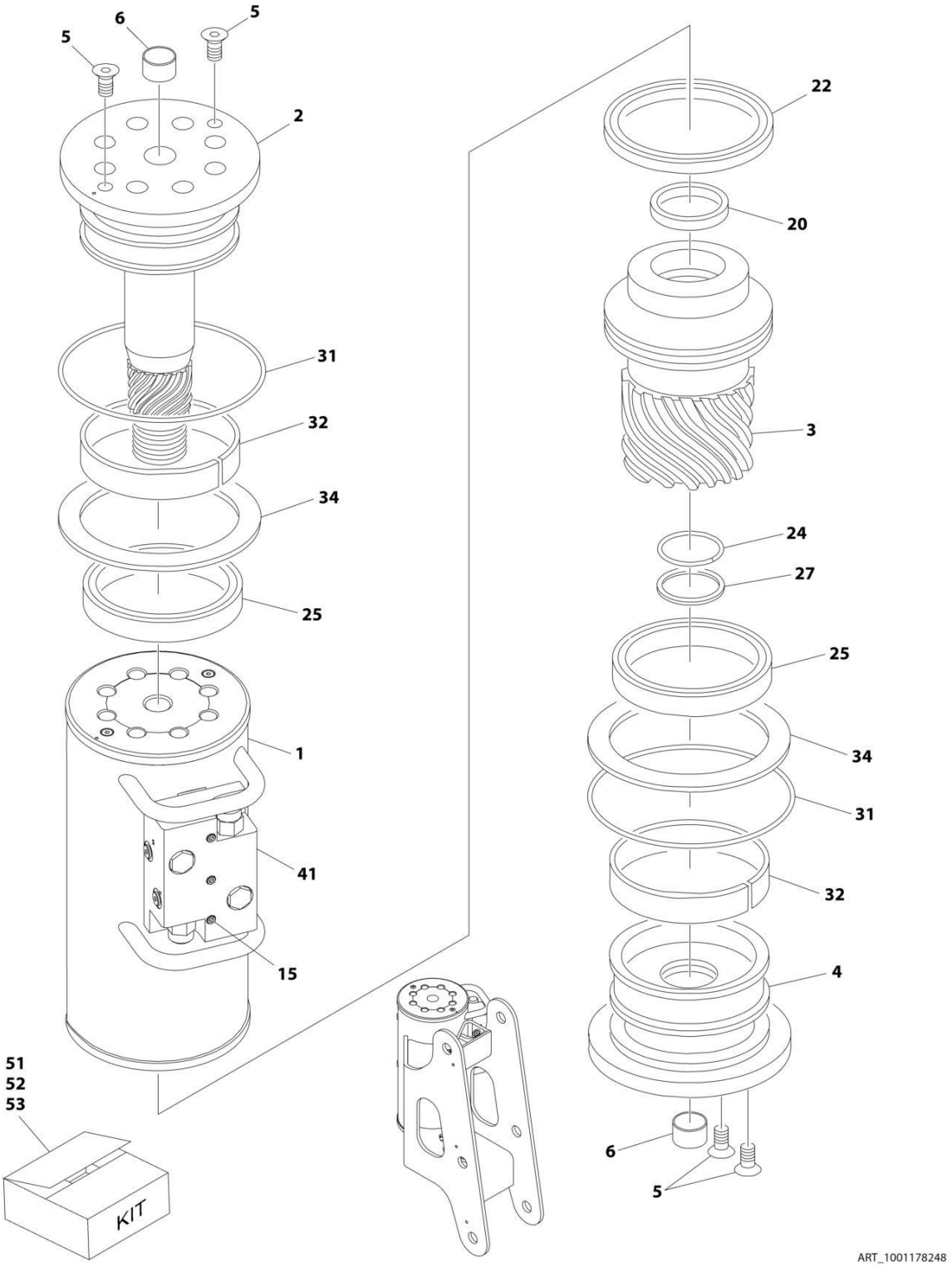


FIGURE 4-7. JIB ROTATE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178248	Ref	JIB ROTATE ASSEMBLY	A
1	See Note	NSS	Case/Bracket Weldment (Note: Not Available - Purchase Complete Assembly)	
2	7017162	1	Shaft	
3	7017163	1	Sleeve, Piston	
4	7017164	1	Cap, End	
5	See Note	AR	Screw (Note: See Item 53 for Replacement)	
5	See Note	AR	Dowel Pin (Note: See Item 53 for Replacement)	
6	7017195	2	Bushing	
15	See Note	NSS	Capscrew 1/4 x 1-1/2 Grade 8 (Note: Not Available for Purchase)	
20	See Note	1	Seal, Rod (Note: See Item 51 for Replacement Options)	
22	See Note	1	Seal, Piston (Note: See Item 51 for Replacement Options)	
24	See Note	1	Seal, Cap (Note: See Item 51 for Replacement Options)	
25	See Note	2	Packing, Bearing (Note: See Item 51 for Replacement Options)	
27	See Note	1	Ring, Cap Back-up (Note: See Item 51 for Replacement Options)	
31	See Note	2	Seal (Note: See Item 51 for Replacement Options)	
32	See Note	2	Bearing, Shaft (Note: See Item 52 for Replacement)	
34	See Note	2	Thrustwasher (Note: See Item 52 for Replacement)	
41	70002859	1	Motion Control Valve Assembly (Cartridges not serviced separately)	
51	70000796	1	Seal Kit (Includes Items 20, 22, 24, 25, 27 & 31)	
52	7017185	1	Bearing Kit (Includes Items 32 & 34)	
53	70001640	1	Hardware Kit (Includes Item 5 and Plugs)	

FIGURE 4-8. POWER TRACK AND BOOM CLAMPS INSTALLATION (TOWER BOOM)

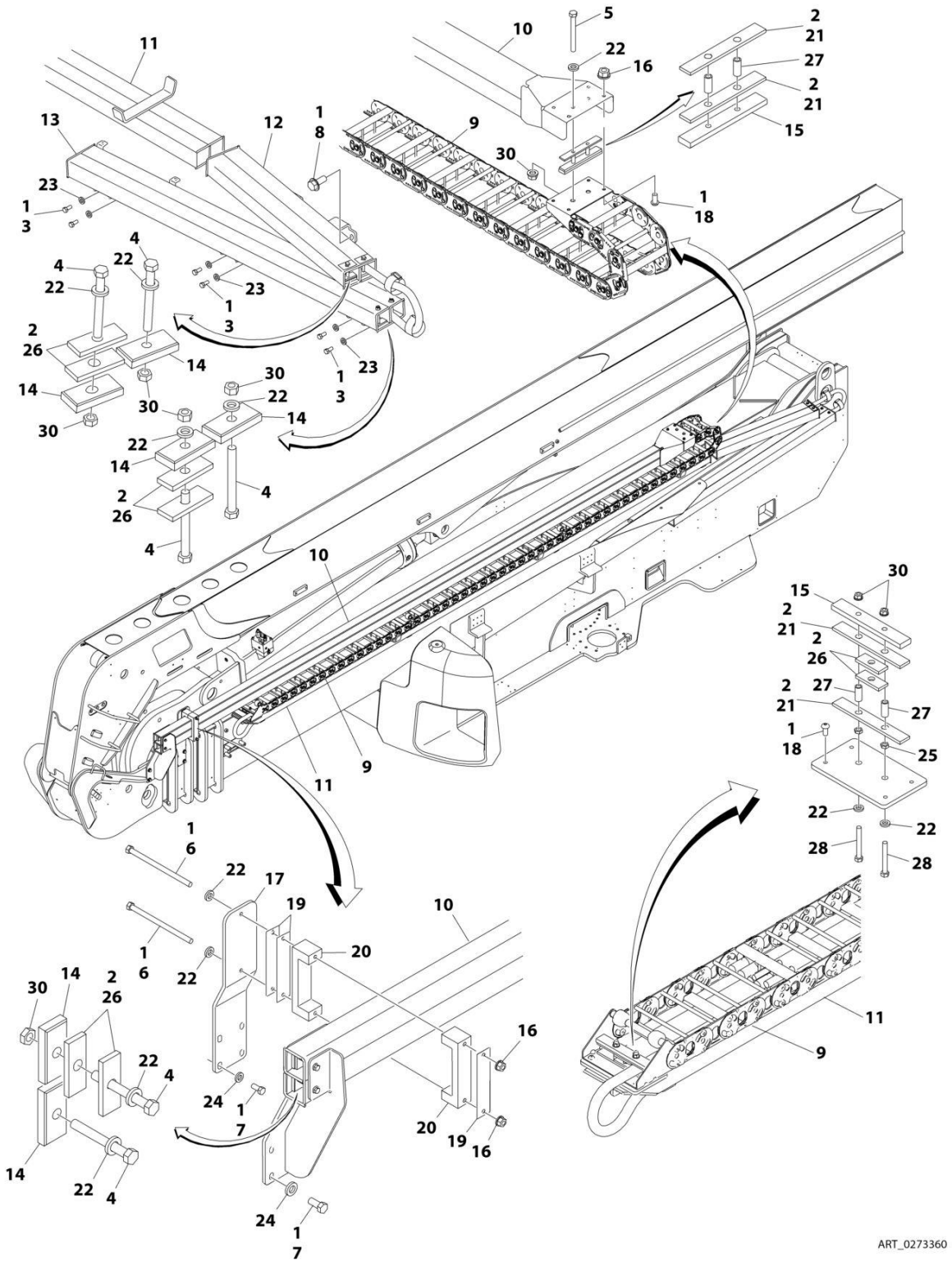
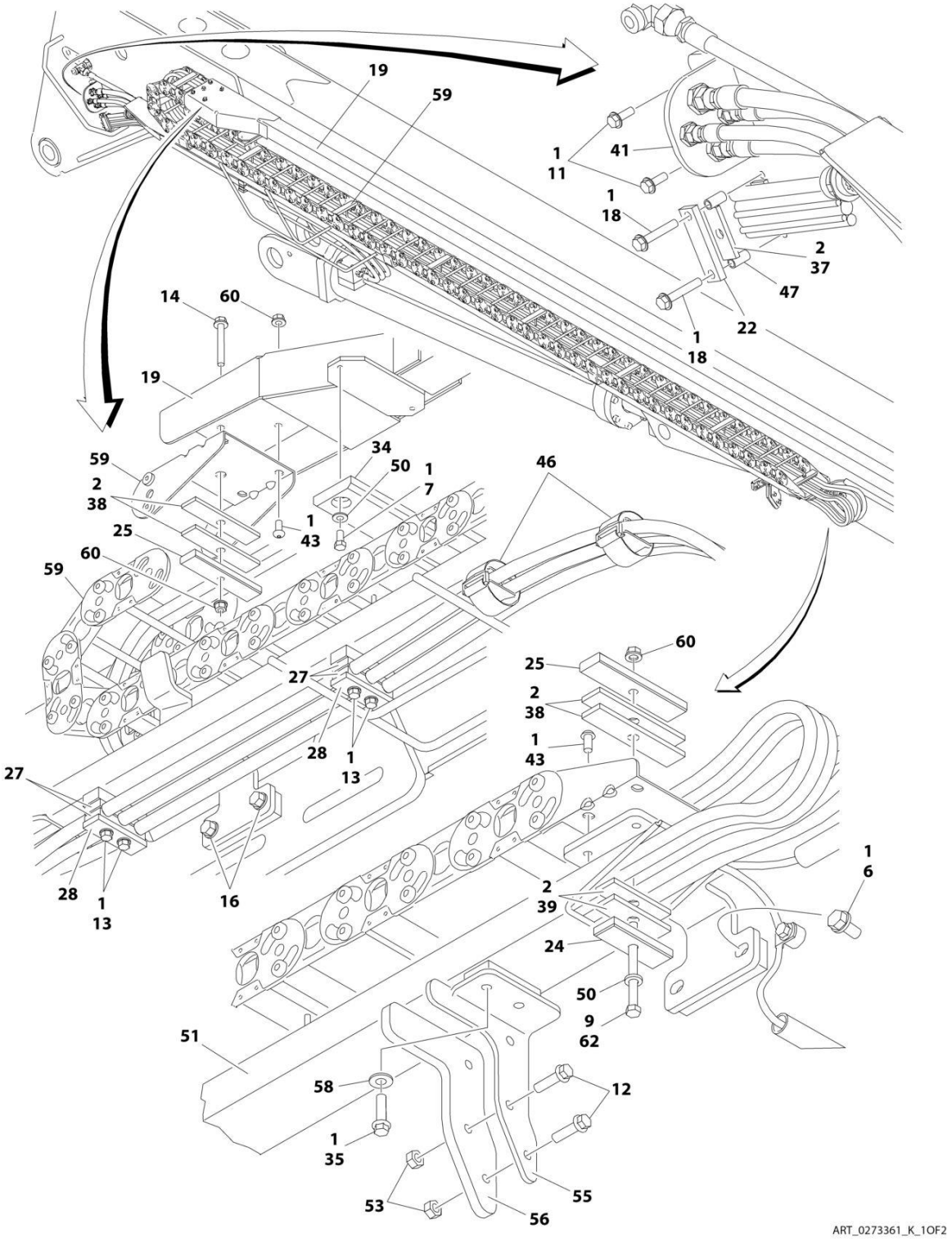


FIGURE 4-8. POWER TRACK AND BOOM CLAMPS INSTALLATION (TOWER BOOM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273360	Ref	POWER TRACK AND BOOM CLAMPS INSTALLATION (TOWER BOOM)	F
1	0100011	AR	Compound, Locking	
2	0100081	AR	Adhesive #454	
3	0641606	6	Bolt 3/8 x 3/4	
4	0641628	6	Bolt 3/8 x 3-1/2	
5	0630539	2	Bolt 3/8 x 3-1/2	
6	0641652	2	Bolt 3/8 x 6-1/2	
7	0641809	8	Bolt 1/2 x 1-1/8	
8	0791808	12	Screw 1/2 x 1	
9	1001131730	1	Power Track, Tower Hose	
9	70003919	AR	Repair Section Kit (Includes Inner and Outer Links, Joining Bars and Rollers, and Assembling Hardware)	
9	70003920	1	Mounting Bracket Kit (Includes Mounting Brackets for Both Ends, 1 Roller Assembly and Assembling Hardware)	
10	1180387	1	Tube, Push (Upper Tower Boom)	
11	1180388	1	Tube, Carrier (Lower Tower Boom)	
12	1180389	1	Tube, Carrier (T/T to Tower Boom)	
13	1180390	1	Tube, Carrier (Turntable)	
14	1320288	6	Clamp, Bar	
15	1320328	2	Clamp, Bar	
16	3311608	6	Nut 3/8	
17	3574644	1	Plate, Support	
18	3900283	8	Screw 3/8 x 3/4	
19	4071076	3	Shim	
20	4220189	2	Block, Support	
21	4220190	4	Pad, Rubber	
22	4711600	12	Washer 3/8	
23	4891600	6	Washer 3/8	
24	4891800	8	Washer 1/2	
25	3311602	2	Nut 3/8	
26	3340941	8	Pad, Rubber	
27	4562516	3 in/7.6cm	Tubing, Poly	
28	0630593	2	Bolt 3/8 x 3-1/4	
29	4240155	AR	Strap (Not Shown)	
30	3300492	10	Nut, Lock Nylon Insert	

FIGURE 4-9. POWER TRACK AND BOOM CLAMPS INSTALLATION (MAIN BOOM AND JIB)



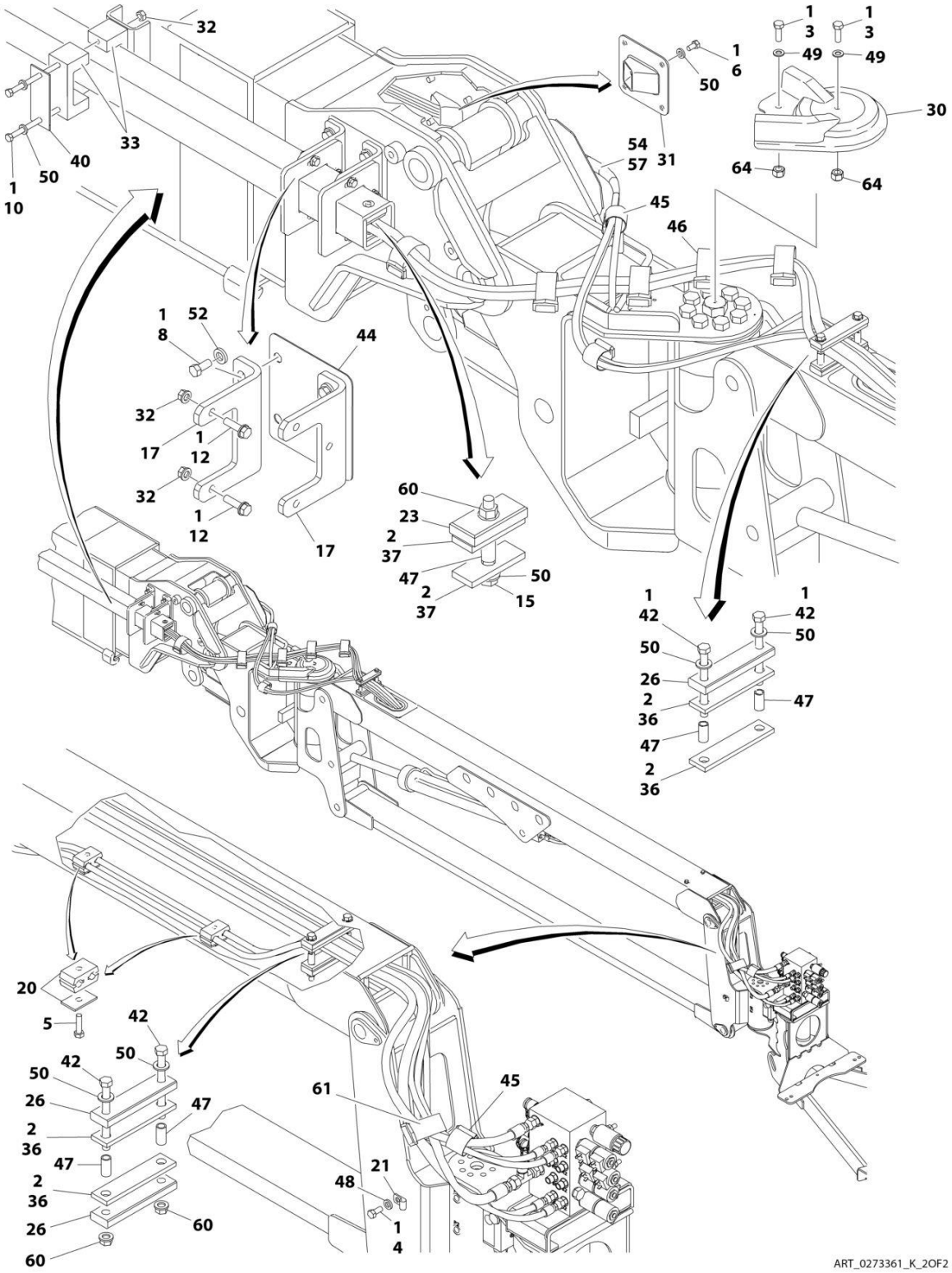
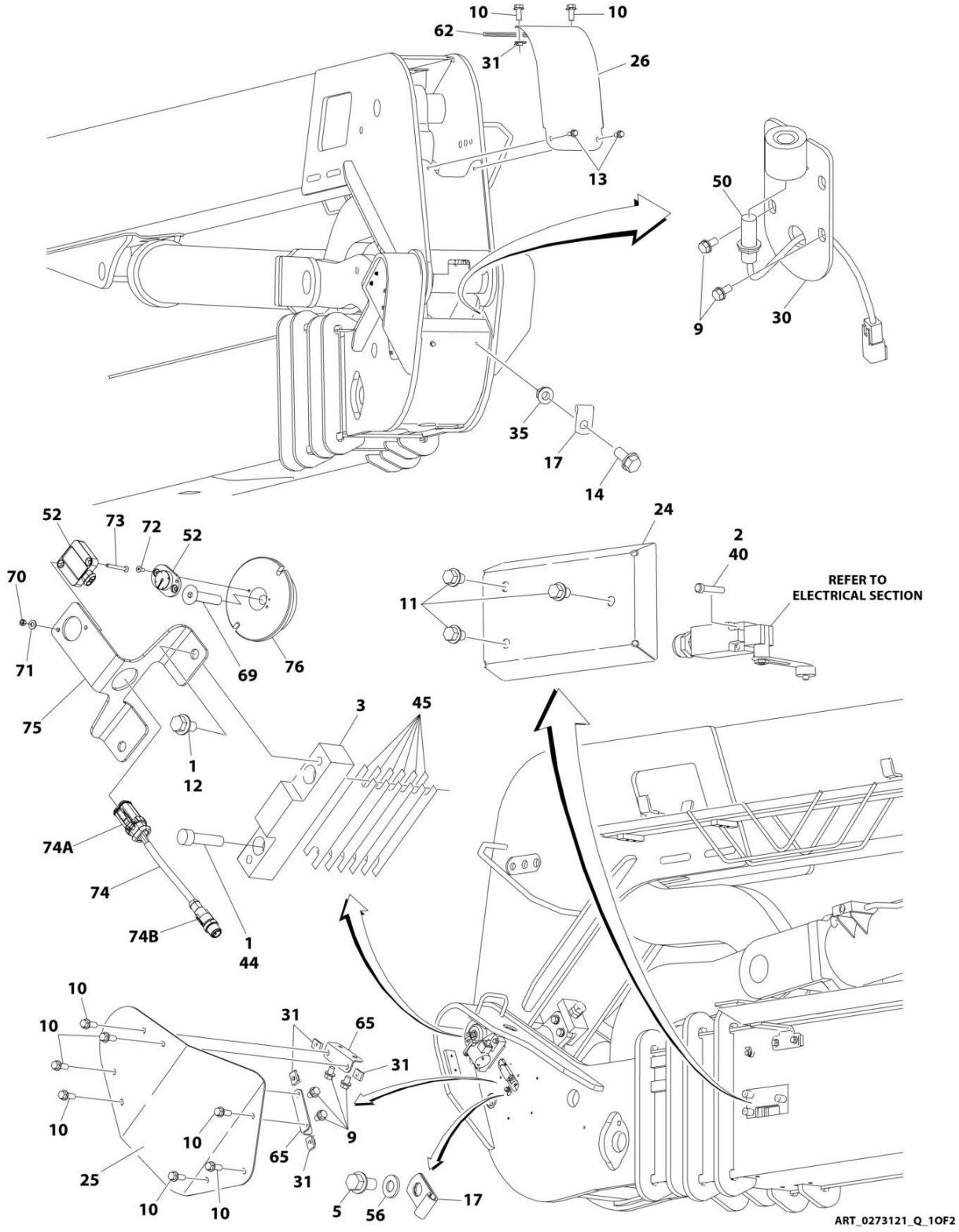

ART_0273361_K_2OF2

FIGURE 4-9. POWER TRACK AND BOOM CLAMPS INSTALLATION (MAIN BOOM AND JIB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273361	Ref	POWER TRACK AND BOOM CLAMPS INSTALLATION (MAIN BOOM AND JIB)	K
1	0100011	AR	Compound, Locking	
2	0100081	AR	Adhesive #454	
3	0760812	3	Screw M8 x 25	
4	0641406	1	Bolt 1/4 x 3/4	
5	0791510	2	Screw 5/16 x 1-1/4	
6	0641605	4	Bolt 3/8 x 5/8	
7	0641606	2	Bolt 3/8 x 3/4	
8	0641809	4	Bolt 1/2 x 1-1/8	
9	0641638	1	Bolt 3/8 x 4-3/4	
10	0641644	2	Bolt 3/8 x 5-1/2	
11	0791608	2	Screw 3/8 x 1	
12	0791610	10	Screw 3/8 x 1-1/4	
13	0791616	4	Screw 3/8 x 2	
14	0791622	1	Screw 3/8 x 2-3/4	
15	0641626	1	Bolt 3/8 x 3-1/4	
16	0791808	8	Screw 1/2 x 1	
17	0902932	2	Bracket, Mounting	
18	0791618	2	Screw 3/8 x 2-1/4	
19	1180386	1	Tube, Push (Upper Main Boom)	
20	1320159	2	Clamp, Hose	
21	1320263	2	Clamp, Hose	
22	1320277	1	Clamp, Hose	
23	1320288	1	Clamp, Hose	
24	1320289	1	Clamp, Hose	
25	1320294	2	Clamp, Bar	
26	1320296	3	Clamp, Bar	
27	1320325	2	Clamp, Block	
28	1320327	2	Clamp, Cover Plate	
30	1671122	1	Cover, Jib Pivot	
31	2540044	1	Guide, Hose	
32	3311608	12	Nut 3/8	
33	3340764	2	Pad, Push Tube	
34	3340787	NLA	Pad, Wear (Use p/n 1001136469)	
35	0811606	2	Screw 3/8 x 3/4	
36	3340934	4	Pad, Clamp	
37	3340941	4	Pad, Rubber	
38	3340942	4	Pad, Rubber	
39	3340943	2	Pad, Rubber	
40	3538758	1	Plate, Backing	
41	3574606	1	Plate, Bulkhead Mounting	
42	3900260	4	Capscrew 3/8 x 4	
43	3900283	8	Screw 3/8 x 3/4	
44	4071072	1	Shim, Adjusting 16Ga	
45	4240153	AR	Tie-Strap	
46	4240155	AR	Tie-Strap	
47	4562516	7 in/18 cm	Tubing, Poly	
48	4711400	1	Washer 1/4	
49	4811900	6	Washer M8	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	4711600	18	Washer 3/8	
51	4846920	1	Tube, Carrier (Lower Main Boom)	
52	4891800	4	Washer 1/2	
53	3311605	4	Nut 3/8	
54	4240033	AR	Tie-Strap	
55	0902965	1	Bracket, Push Tube Guide	
56	4220197	1	Pad, Guide Tube	
57	4100063	1	Sleeve	
58	4891600	2	Washer 3/8	
59	1001131732	1	Power Track, Main Cable	
59	70003913	AR	Repair Section Kit (Includes Inner and Outer Links, Joining Bars and Rollers, and Assembling Hardware)	
59	70003914	1	Roller Link Section Kit (Includes 1 Roller Assembly and Assembling Hardware)	
59	70003916	1	Mounting Bracket Kit (Includes Mounting Brackets for Both Ends and Assembling Hardware)	
60	3300492	5	Nut, Lock Nylon Insert	
61	4240156	1	Tie-Strap	
62	0641636	1	Bolt 3/8 x 4-1/2	
63	1321385	1	Clamp, Hose Retaining (Located at Platform Rotator - Not Shown)	
64	3290805	3	Nut M8	

FIGURE 4-10. BOOM SENSORS AND SWITCHES INSTALLATION



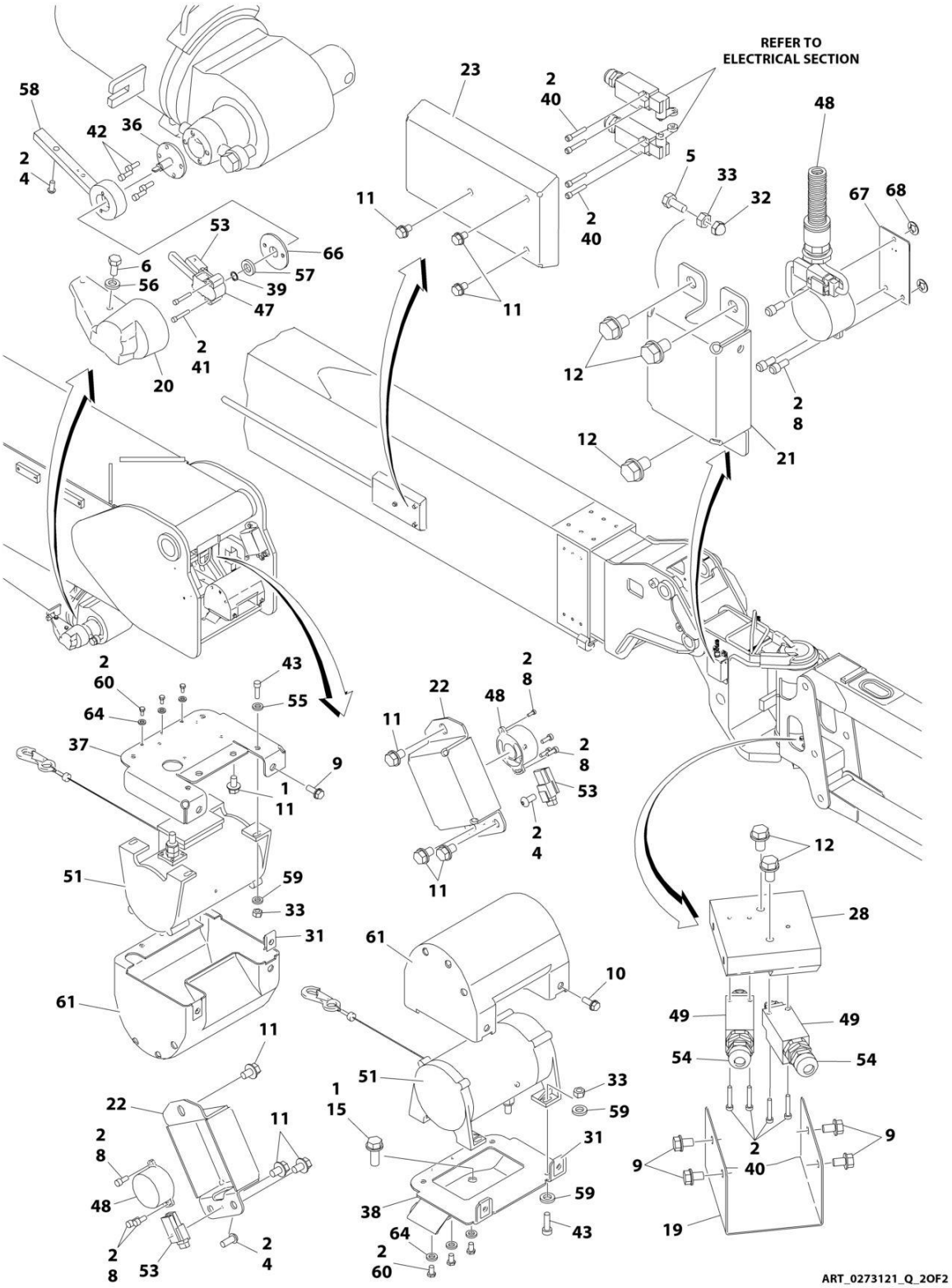

REFER TO
ELECTRICAL SECTION
ART_0273121_Q_2OF2

FIGURE 4-10. BOOM SENSORS AND SWITCHES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273121	Ref	BOOM SENSORS AND SWITCHES INSTALLATION	Q
1	0100011	AR	Compound, Locking	
2	0100035	AR	Compound, Locking	
3	0363224	2	Bar, Sensor Mounting	
4	0630464	3	Screw #10 x 1/2	
5	0641405	2	Bolt 1/4 x 5/8	
6	0641505	1	Bolt 5/16 x 5/8	
8	3930606	12	Capscrew #6 x 3/8	
9	0791504	17	Screw 5/16 x 1/2	
10	0791506	20	Screw 5/16 x 3/4	
11	0791604	20	Screw 3/8 x 1/2	
12	0791605	12	Screw 3/8 x 5/8	
13	0791606	2	Screw 3/8 x 3/4	
14	0791608	2	Screw 3/8 x 1	
15	0791810	2	Screw 1/2 x 1-1/4	
16	4240018	AR	Tie-Strap (Not Shown)	
17	1320301	7	Clamp, Hose	
19	1671039	1	Cover, Jib Switch	
20	1671040	1	Cover, Sensor	
21	1671044	2	Cover, Level Sensor	
22	1671112	2	Cover, Angle Sensor	
23	1671113	2	Cover, Limit Switch	
24	1671117	1	Cover, Limit Switch	
25	3380528	2	Cover, Rotary Sensor	
26	1671123	1	Cover, Main Base Hose	
28	3200433	1	Mount, Jib Switch	
30	4340959	1	Mount, Sensor	
31	3300364	14	Nut, Tinnerman 5/16	
32	3300430	2	Nut 1/4	
33	3311405	10	Nut 1/4	
35	3311608	2	Nut 3/8	
36	3423256	1	Pin, Sensor (Note: Control System must be re-calibrated when Switch is replaced)	
37	4340810	1	Mount, Sensor (Upper)	
38	4340811	1	Mount, Sensor (Lower)	
39	3760383	1	Ring	
40	3930816	14	Capscrew #8 x 1	
41	3931020	2	Capscrew #10 x 1-1/4	
42	3931412	4	Capscrew 1/4 x 3/4	
43	3931414	8	Capscrew 1/4 x 7/8	
44	3931624	4	Capscrew 3/8 x 1-1/2	
45	4071031	12	Shim, Trunnion Keeper	
46	4240033	AR	Tie-Strap (Not Shown)	
47	4360505	1	Sensor , Tower Lift Cylinder Angle (Note: Control System must be re-calibrated when Switch is replaced)	
48	1001147479	4	Sensor, Mechanical Angle (Note: Control System must be re-calibrated when Switch is replaced)	
49	4360548	2	Switch, Plunger	
50	4000008	1	Sensor, Proximity Assembly	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	4360552	2	Sensor, Boom Length (Note: Control System must be re-calibrated when Switch is replaced)	
52	1001289604	2	Sensor, Magnetic Angle (Note: Control System must be re-calibrated when Switch is replaced)	
53	4460914	3	Terminal, Base	
54	4460968	3	Connector, Strain Relief	
55	4711400	8	Washer 1/4	
56	4711500	2	Washer 5/16	
57	4711800	1	Washer 1/2	
58	0200833	1	Arm	
59	4891400	8	Washer 1/4	
60	0721003	6	Screw #10 x 3/8	
61	1671142	2	Cover, Length Sensor	
62	3960389	11 in /28cm	Seal	
63	3960571	1	Seal, Gasket (Not Shown)	
64	4751000	6	Washer #10	
65	4340861	4	Plate, Mounting	
66	0080277	1	Adapter, Angle Sensor Pilot	
67	4341158	2	Mount, Sensor	
68	8310070	6	Pushnut 3/8	
69	0741614	2	Capscrew 3/8 x 1.75	
70	3290305	4	Nut, Lock M3	
71	4811400	4	Washer M4	
72	1001216232	4	Capscrew M3 x 8	
73	1001109990	4	Capscrew M3 x 30	
74	1001301651	2	Magnetic Angle Sensor Harness	
74A	1001301653	1	Connector	
74A	4460944	4	Socket	
74B	1001301712	1	Connector	
75	1001303207	2	Plate, Magnetic Angle Sensor Mounting	
76	1001303208	2	Adapter, Magnetic Angle Sensor	

FIGURE 4-11. PLATFORM SUPPORT INSTALLATION

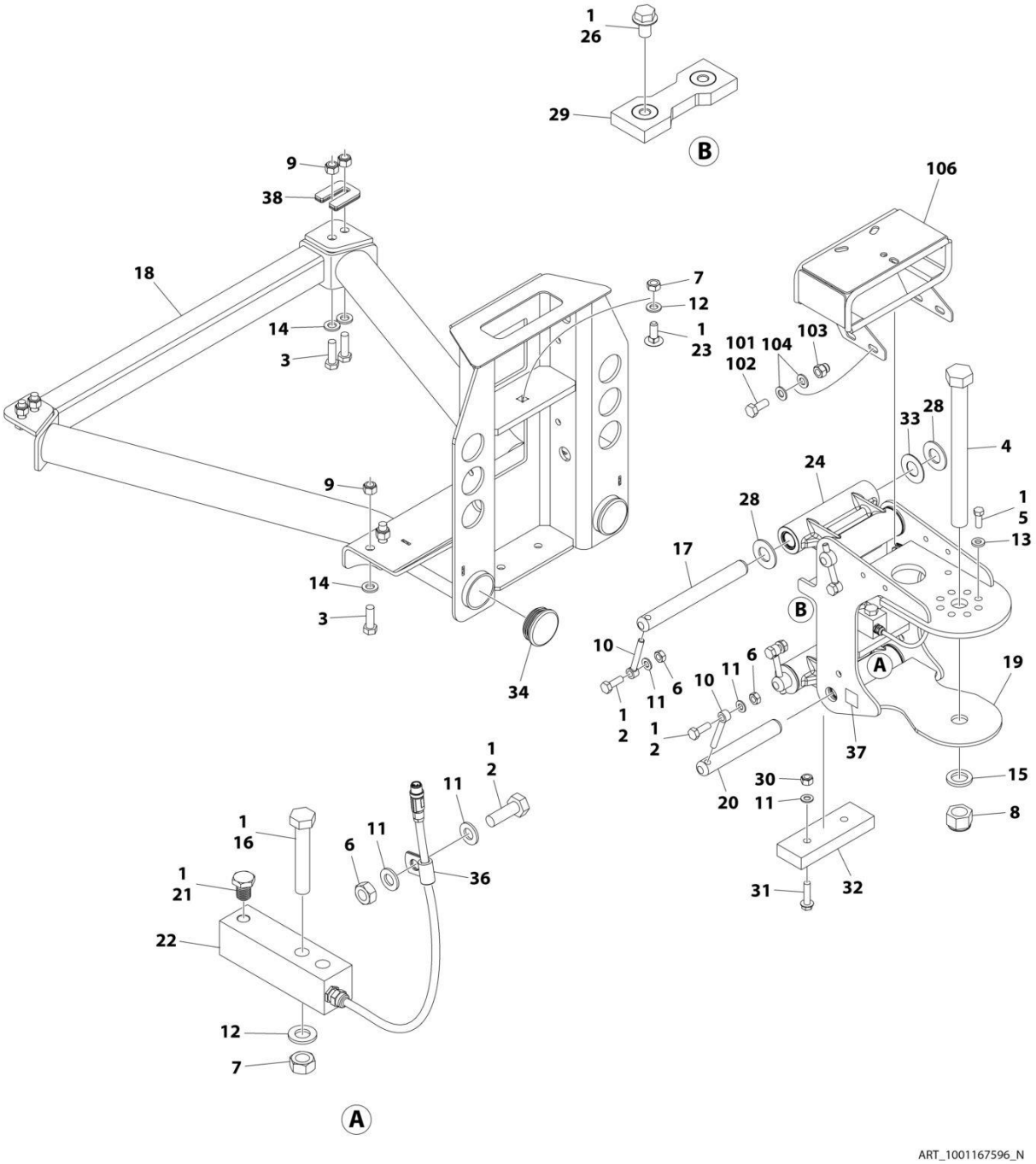


FIGURE 4-11. PLATFORM SUPPORT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167596	Ref	PLATFORM SUPPORT INSTALLATION	N
1	0100011	AR	Compound, Locking	
2	0761014	5	Bolt M10 x 30	
3	0761216	8	Bolt M12 x 40	
4	1001255133	1	Bolt 1 x 11 GRD8	
5	0681608	8	Bolt 3/8 x 1 GRD8	
6	3291001	5	Nut M10	
7	3291201	3	Nut M12	
8	1001174040	1	Nut 1	
9	3291205	8	Nut M12	
10	3841143	4	Keeper, Pin	
11	4812000	8	Washer M10	
12	4812100	3	Washer M12	
13	4891600	8	Washer 3/8	
14	5241200	8	Washer M12	
15	4892600001	1	Washer 1	
16	1001098828	2	Bolt M12 x 70 CL10.9	
17	1001167565	2	Pin	
18	1001200494	1	Support, Platform	
19	1001167567	1	Support, Rotator	
20	1001168402	2	Pin	
21	1001188622	1	Screw	
22	1001247468	1	Loadcell	
23	1001188844	1	Bolt M12 x 35	
24	1001201351	2	Link	
24	1001187382	4	Bearing	
24	1001187383	4	Seal	
26	5251008	2	Bolt M10 x 16 CL10.9	
28	1001189002	8	Bearing	
29	1001190985	1	Pad, Wear	
30	3291005	2	Nut M10	
31	5251016	2	Bolt M10 x 40 CL10.9	
32	1001200491	1	Pad, Wear	
33	1001189001	4	Bearing	
34	1001204725	2	Plug	
36	91203039	1	Clamp	
37	1001216630	2	Decal - Tie Down/No Lift	
38	1001238421	Ref	Kit, Platform Leveling (Not Shown)	
	1001202687	Ref	VALVE MOUNT INSTALLATION	B
101	0100011	AR	Compound, Locking	
102	0760810	4	Bolt M8 x 20	
103	3290806	4	Nut M8	
104	4811900	8	Washer M8	
106	1001208994	1	Mount, Valve	

FIGURE 4-12. CONTROL VALVE INSTALLATION - PLATFORM

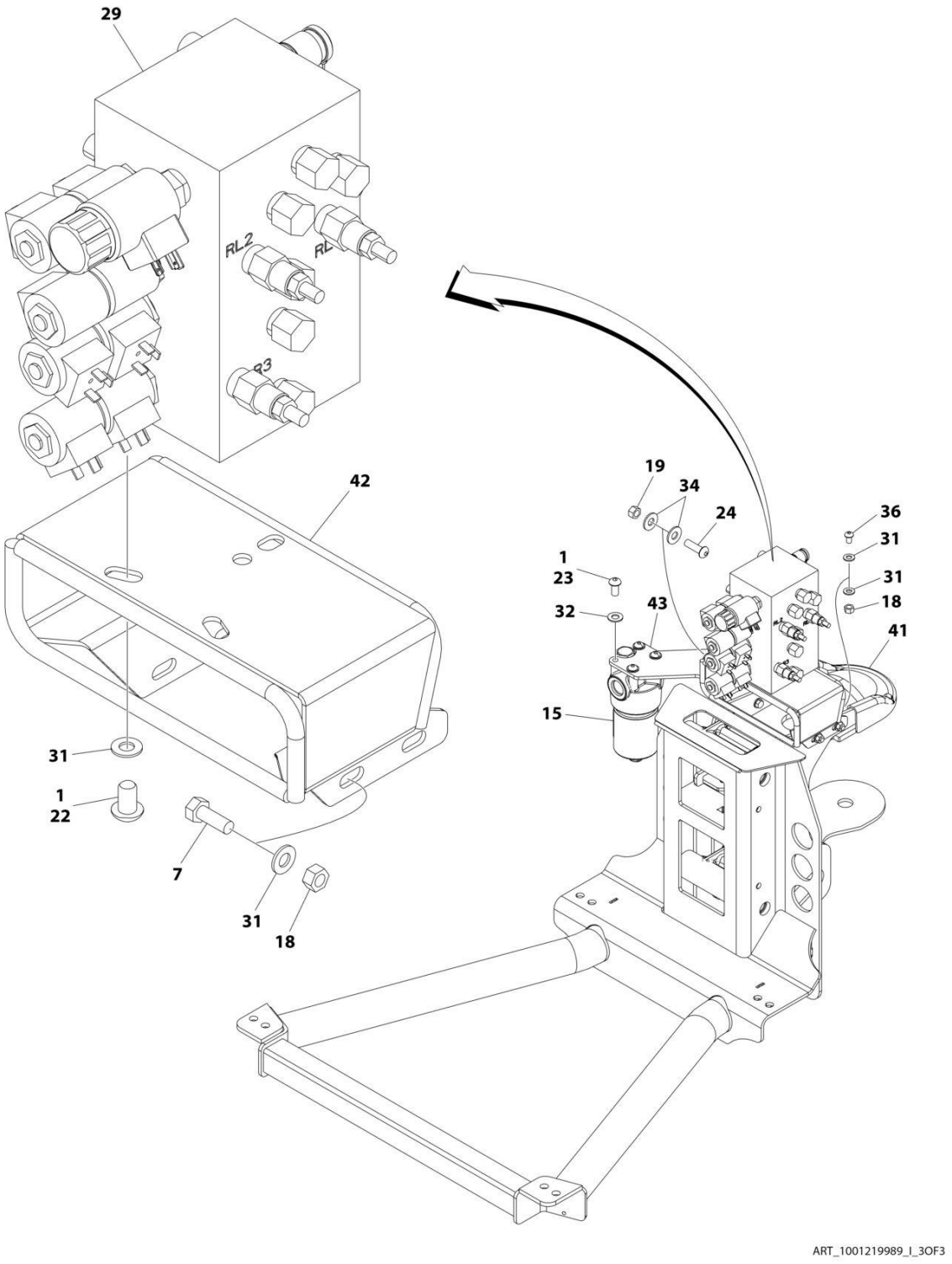


FIGURE 4-12. CONTROL VALVE INSTALLATION - PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219989	Ref	CONTROL VALVE INSTALLATION - WITH 1 CELL LSS	I
1	0100011	AR	Compound, Locking	
7	0641507	4	Bolt 5/16 x 7/8	
15	2120217	1	Filter, Pressure	
15	70002097	1	Element	
15	70004328	1	Plug, Indicator	
18	3311505	6	Nut 5/16	
19	3311605	2	Nut 3/8	
22	3900210	3	Screw 5/16 x 3/4	
23	3900283	4	Screw 3/8 x 3/4	
24	3900316	2	Screw 3/8 x 1	
29	4641460	1	Platform Valve (See Separate Breakdown in this Section)	
31	4711500	12	Washer 5/16	
32	4711600	4	Washer 3/8	
34	4751600	4	Washer 3/8	
36	88261024	2	Bolt 5/16 x 1	
41	1001207969	1	Cover, Support/Rotator	
42	1001208994	1	Plate, Valve Mounting	
43	1001222314	1	Bracket, Filter Mounting	

FIGURE 4-13. PLATFORM VALVE ASSEMBLY

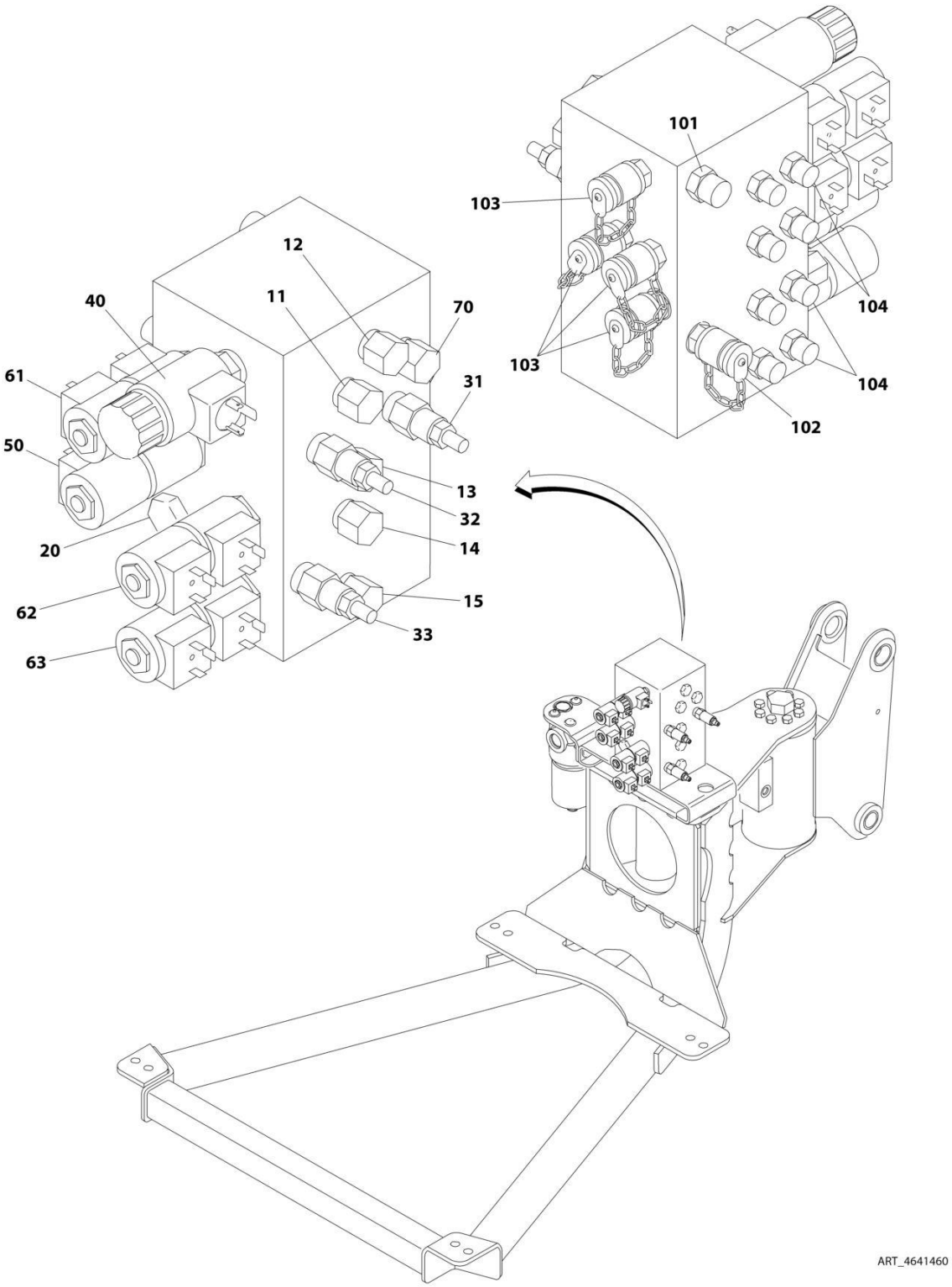


FIGURE 4-13. PLATFORM VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4641460	Ref	PLATFORM VALVE ASSEMBLY	C
11	7026018	1	Valve, Cartridge	
11	7011346	1	Seal Kit - Valve	
12	7026019	1	Valve, Cartridge (Flow Control)	
12	7011346	1	Seal Kit - Valve	
13	7026020	1	Valve, Cartridge (Rotate)	
13	7011346	1	Seal Kit - Valve	
14	7026021	1	Valve, Cartridge (Jib Swing)	
14	7011346	1	Seal Kit - Valve	
15	7026019	1	Valve, Cartridge (Jib Lift)	
15	7011346	1	Seal Kit - Valve	
20	7011355	1	Valve, Cartridge (Jib)	
20	2900770	1	Seal Kit - Valve	
31	7024572	1	Valve, Relief Cartridge (Platform Level Up)	
31	7011346	1	Seal Kit - Valve	
32	7024572	1	Valve, Relief Cartridge (Platform Level Down)	
32	7011346	1	Seal Kit - Valve	
33	7024572	1	Valve, Relief Cartridge (Jib Up/Down)	
33	7011346	1	Seal Kit - Valve	
40	7026022	1	Valve, Cartridge (Dump)	
40	2900770	1	Seal Kit - Valve	
40	7024571	1	Coil	
50	7023922	1	Valve, Cartridge (Platform Rotate)	
50	7017402	1	Seal Kit - Valve	
50	7012944	2	Coil	
61	7023922	1	Valve, Cartridge (Platform Level)	
61	7017402	1	Seal Kit - Valve	
61	7012944	2	Coil	
62	7023922	1	Valve, Cartridge (Jib Swing)	
62	7017402	1	Seal Kit - Valve	
62	7012944	2	Coil	
63	7023922	1	Valve, Cartridge (Jib Lift)	
63	7017402	1	Seal Kit - Valve	
63	7012944	2	Coil	
70	7026023	1	Valve, Cartridge (Check)	
70	7011346	1	Seal Kit - Valve	
	4641460	Ref	Platform Valve Assembly (Fitting Information)	C
101	2110606	1	Fitting, Straight	
102	4641255	1	Fitting (Check Valve)	
103	2221086	4	Check, Pressure	
104	2110404	8	Fitting, Straight	

SECTION 5 - PLATFORM

SECTION 5 - PLATFORM

FIGURE 5-1. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH SWING GATE

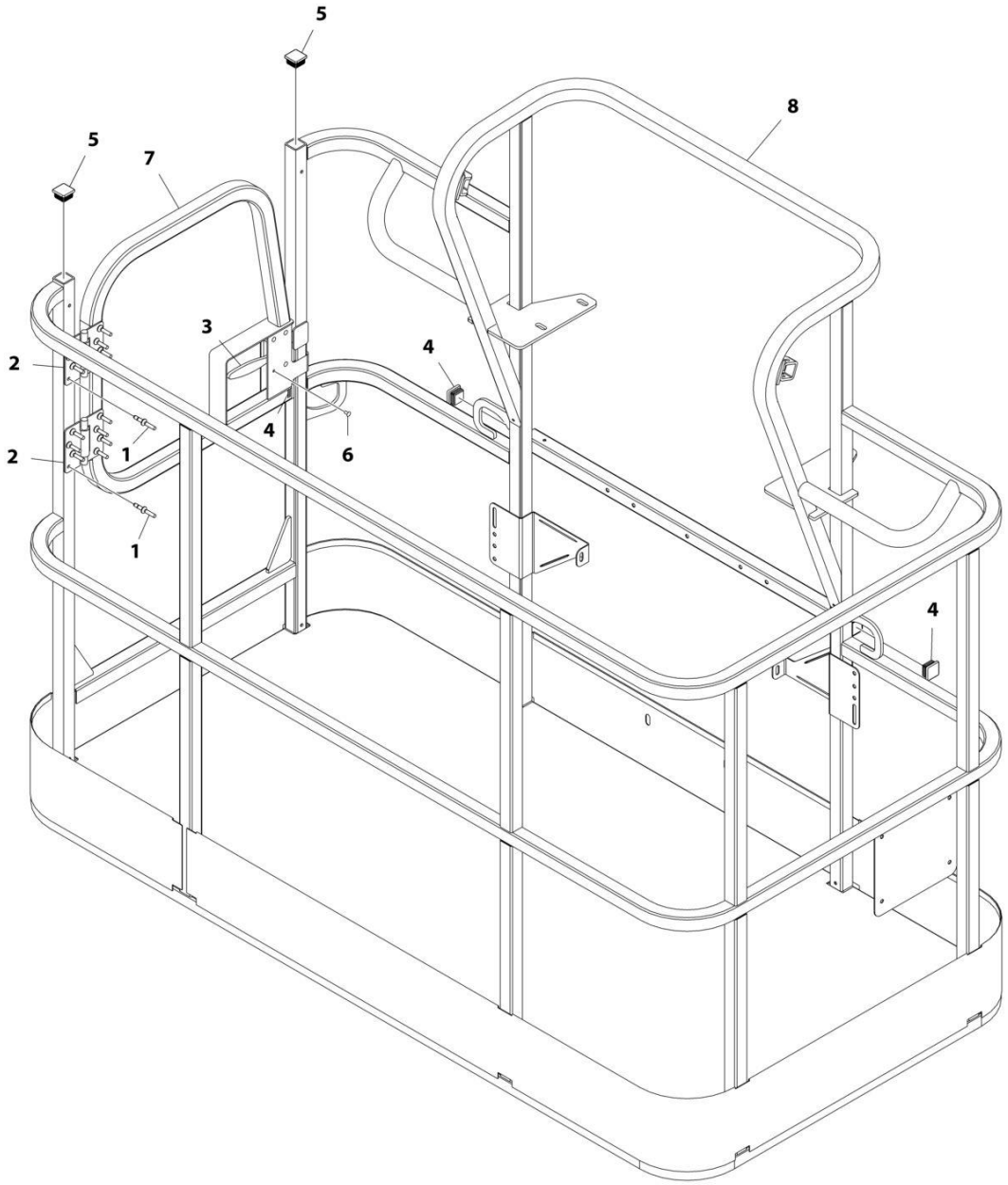


FIGURE 5-1. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH SWING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186384	Ref	PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH SWING GATE	C
	See Note	Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
	See Note	Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
1	2080040	16	Fastener, Huck	
2	2600281	2	Hinge	
3	2940074	1	Latch	
4	3520072	3	Plug	
5	3520198	2	Plug	
6	3820020	4	Rivet	
7	1001144629	1	Gate	
8	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

SECTION 5 - PLATFORM

FIGURE 5-2. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH SWING GATE

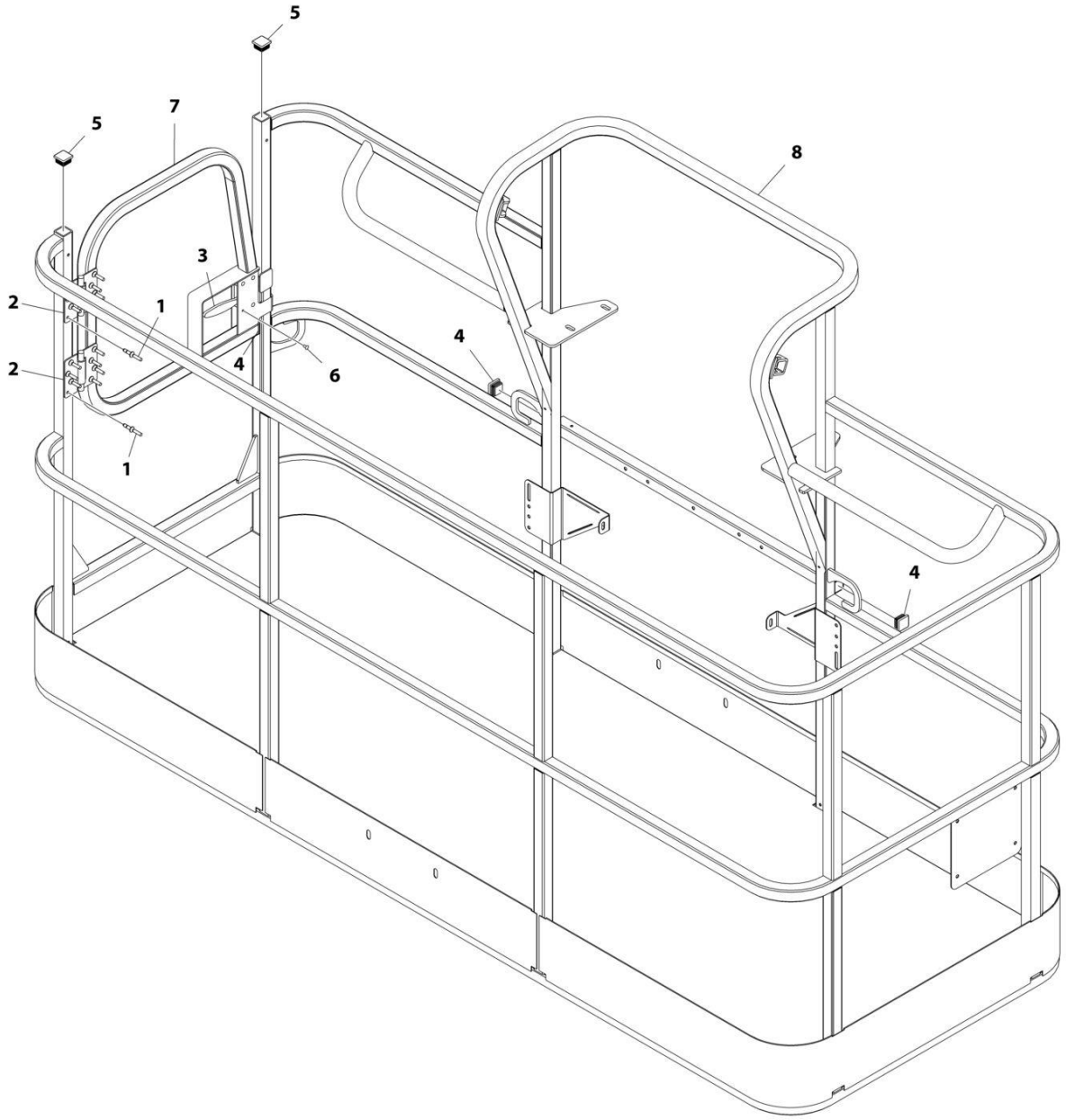
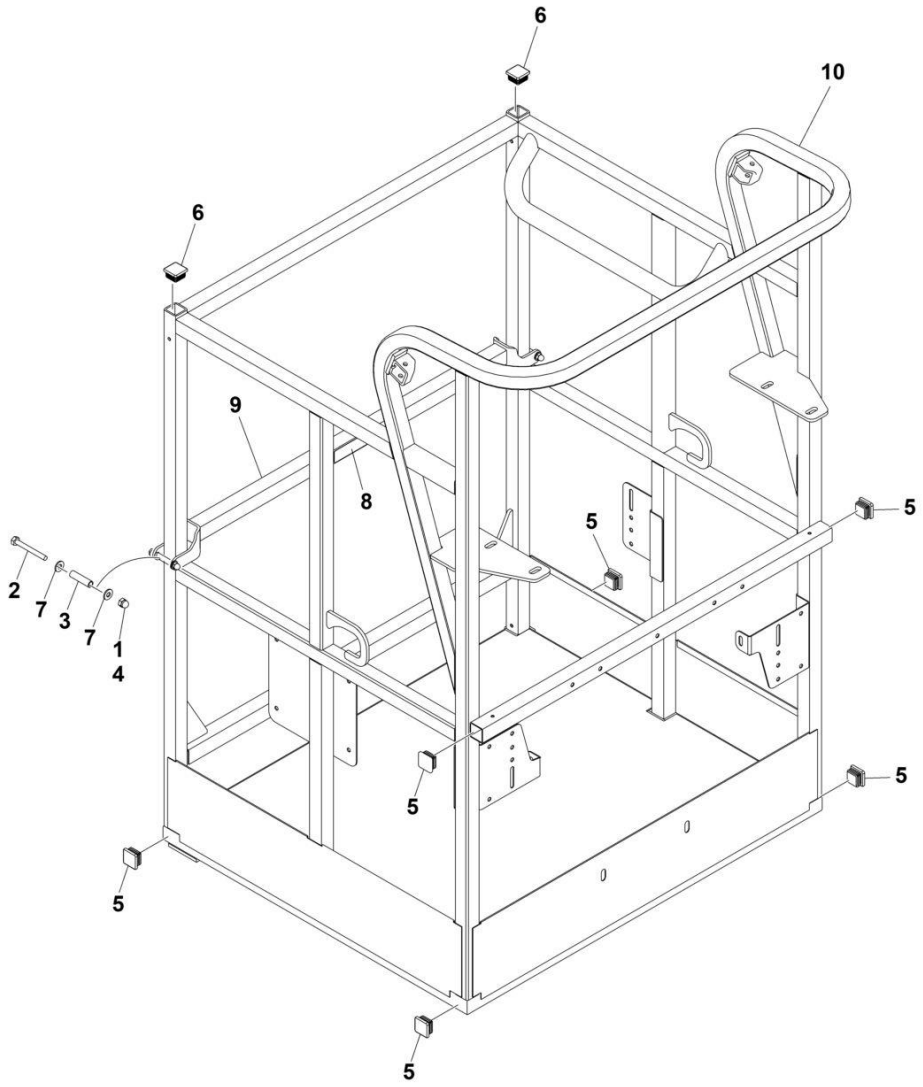


FIGURE 5-2. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH SWING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186383	Ref	PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH SWING GATE	D
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
1	2080040	16	Fastener, Huck	
2	2600281	2	Hinge	
3	2940074	1	Latch	
4	3520072	3	Plug	
5	3520198	2	Plug	
6	3820020	4	Rivet	
7	1001144629	1	Gate	
8	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

SECTION 5 - PLATFORM

FIGURE 5-3. PLATFORM ASSEMBLY - 30IN X 3FT (76CM X .91M) - WITH DROP BAR



ART_1001228215

FIGURE 5-3. PLATFORM ASSEMBLY - 30IN X 3FT (76CM X .91M) - WITH DROP BAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228215	Ref	PLATFORM ASSEMBLY	A
	See Note	Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
	See Note	Ref	Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.	
1	0100011	AR	Compound, Locking	
2	0641418	2	Bolt 1/4 x 2-1/4	
3	0961845	2	Bushing	
4	3300151	2	Nut 1/4	
5	3520072	6	Cap, Plug	
6	3520198	2	Cap, Plug	
7	4711400	4	Washer 1/4	
8	1001140429	1	Decal - Drop Bar	
9	1001226872	1	Bar, Drop	
10	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

FIGURE 5-4. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH DROP BAR

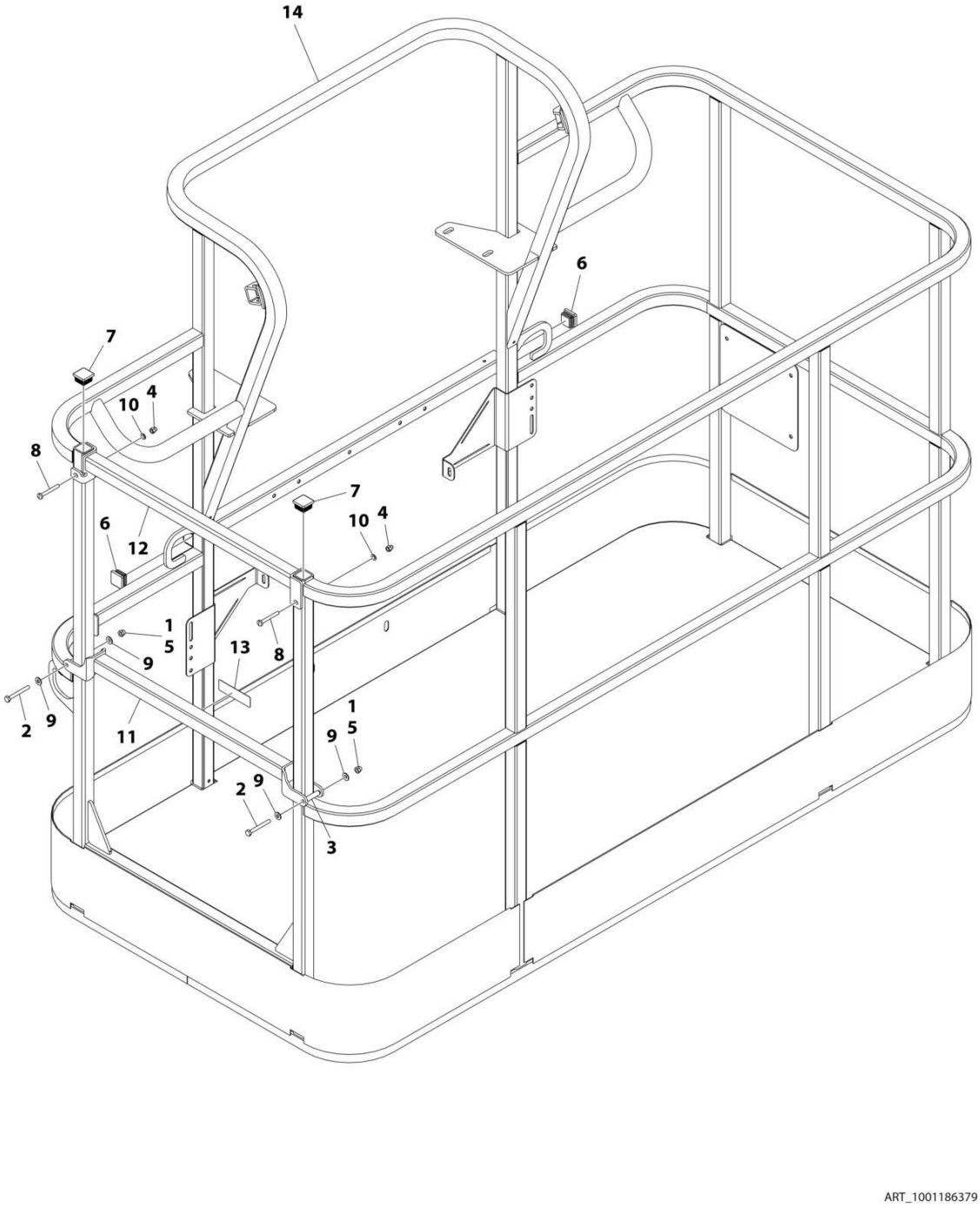


FIGURE 5-4. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH DROP BAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186379	Ref	PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH DROP BAR	B
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
1	0100011	AR	Compound, Locking	
2	0641418	2	Bolt 1/4 x 2-1/4	
3	0961845	2	Bushing	
4	3290606	2	Nut M6	
5	3300151	2	Nut 1/4	
6	3520072	2	Plug	
7	3520198	2	Plug	
8	4010618	2	Screw M6 x 50	
9	4711400	4	Washer 1/4	
10	4811700	2	Washer M6	
11	1001138494	1	Bar, Drop	
12	1001138514	1	Rail (Top)	
13	1001140429	1	Decal - Drop Bar	
14	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

FIGURE 5-5. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH DROP BAR

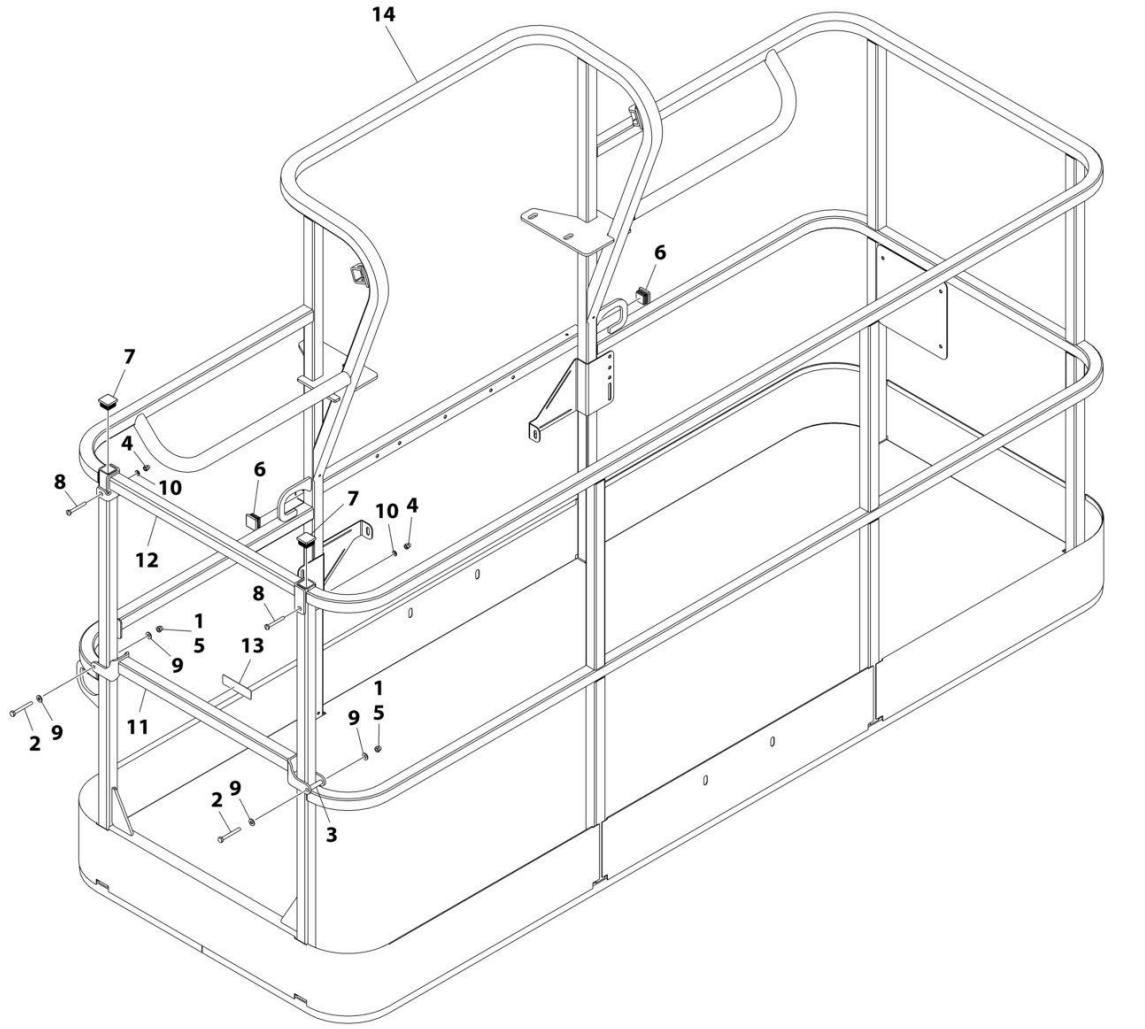


FIGURE 5-5. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH DROP BAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186382	Ref	PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH DROP BAR	C
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
1	0100011	AR	Compound, Locking	
2	0641418	2	Bolt 1/4 x 2-1/4	
3	0961845	2	Bushing	
4	3290606	2	Nut M6	
5	3300151	2	Nut 1/4	
6	3520072	2	Plug	
7	3520198	2	Plug	
8	4010618	2	Screw M6 x 50	
9	4711400	4	Washer 1/4	
10	4811700	2	Washer M6	
11	1001138494	1	Bar, Drop	
12	1001138514	1	Rail (Top)	
13	1001140429	1	Decal - Drop Bar	
14	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

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FIGURE 5-6. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH FALL ARREST (ANSI AND ANSI EXPORT SPECS)

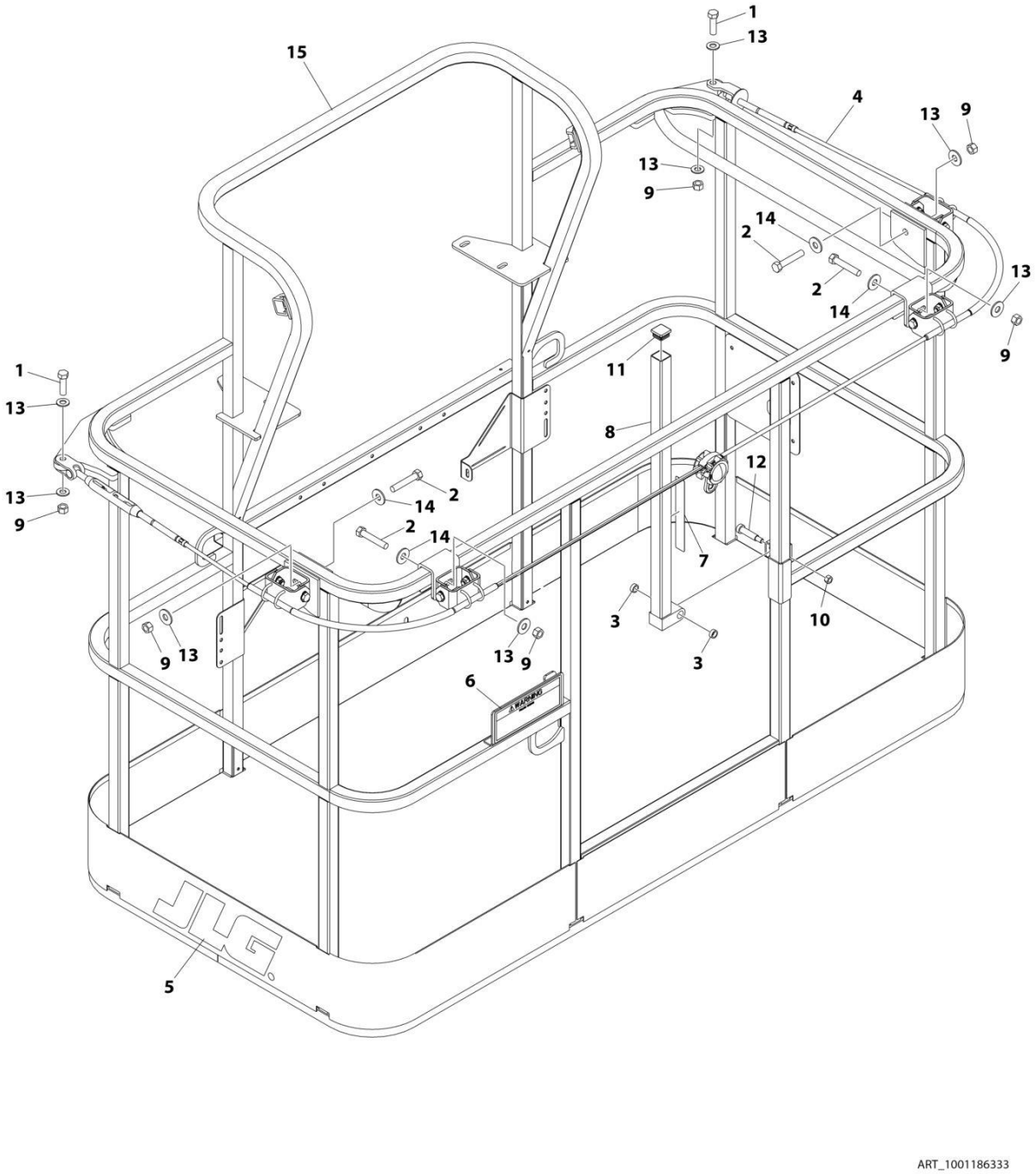

FIGURE 5-6. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) WITH FALL ARREST (ANSI AND ANSI EXPORT SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186333	Ref	PLATFORM ASSEMBLY	C
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
1	0681814	2	Bolt 1/2 x 1-3/4 Grade 8	
2	0681822	4	Bolt 1/2 x 2-3/4 Grade 8	
3	0962270	2	Bearing	
4	1001203655	1	Cable	
5	1702773	1	Decal - JLG	
6	1705014	1	Decal - Safety	
7	1706385	1	Decal - Drop Bar	
8	2410014	1	Bar, Drop	
9	3271805	6	Nut 1/2 Grade 8	
10	3311605	1	Nut 3/8	
11	3520072	1	Plug	
12	3900054	1	Bolt 1/2 x 1-3/4	
13	4711800	8	Washer 1/2	
14	4751800	4	Washer 1/2	
15	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

SECTION 5 - PLATFORM

FIGURE 5-7. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH FALL ARREST (ANSI AND CSA SPECS)

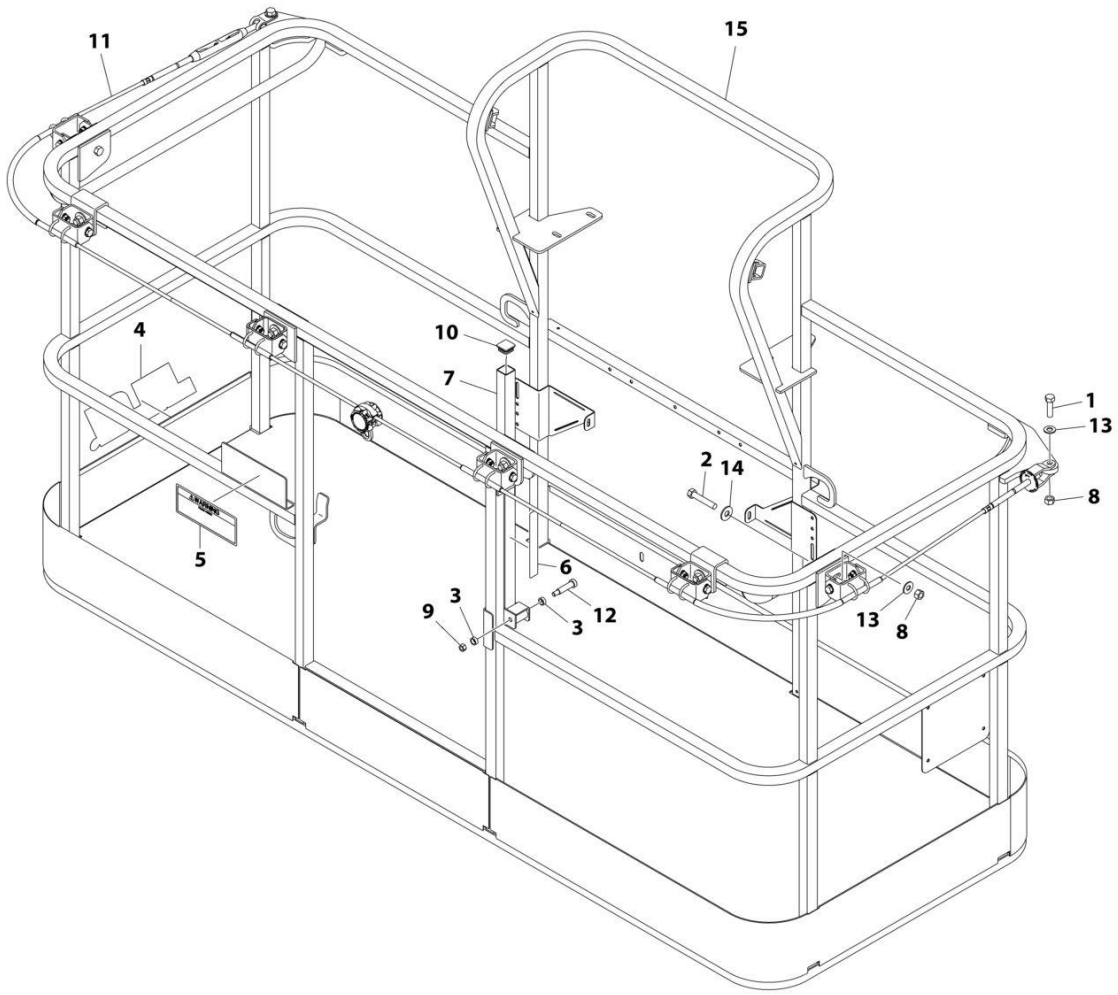

FIGURE 5-7. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH FALL ARREST (ANSI AND CSA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186334	Ref	PLATFORM ASSEMBLY	D
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
1	0681814	2	Bolt 1/2 x 1-3/4 Grade 8	
2	0681822	6	Bolt 1/2 x 2-3/4 Grade 8	
3	0962270	2	Bearing	
4	1702773	1	Decal - JLG	
5	1705014	1	Decal - Safety	
6	1706385	1	Decal - Drop Bar	
7	2410014	1	Bar, Drop	
8	3271805	8	Nut 1/2 Grade 8	
9	3311605	1	Nut 3/8	
10	3520072	1	Plug	
11	1001203656	1	Cable	
12	3900054	1	Bolt 1/2 x 1-3/4	
13	4711800	2	Washer 1/2	
14	4751800	6	Washer 1/2	
15	See Note	NSS	Platform (Note: Purchase Platform Assembly)	

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FIGURE 5-8. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) TRI-ENTRY WITH SWING GATE

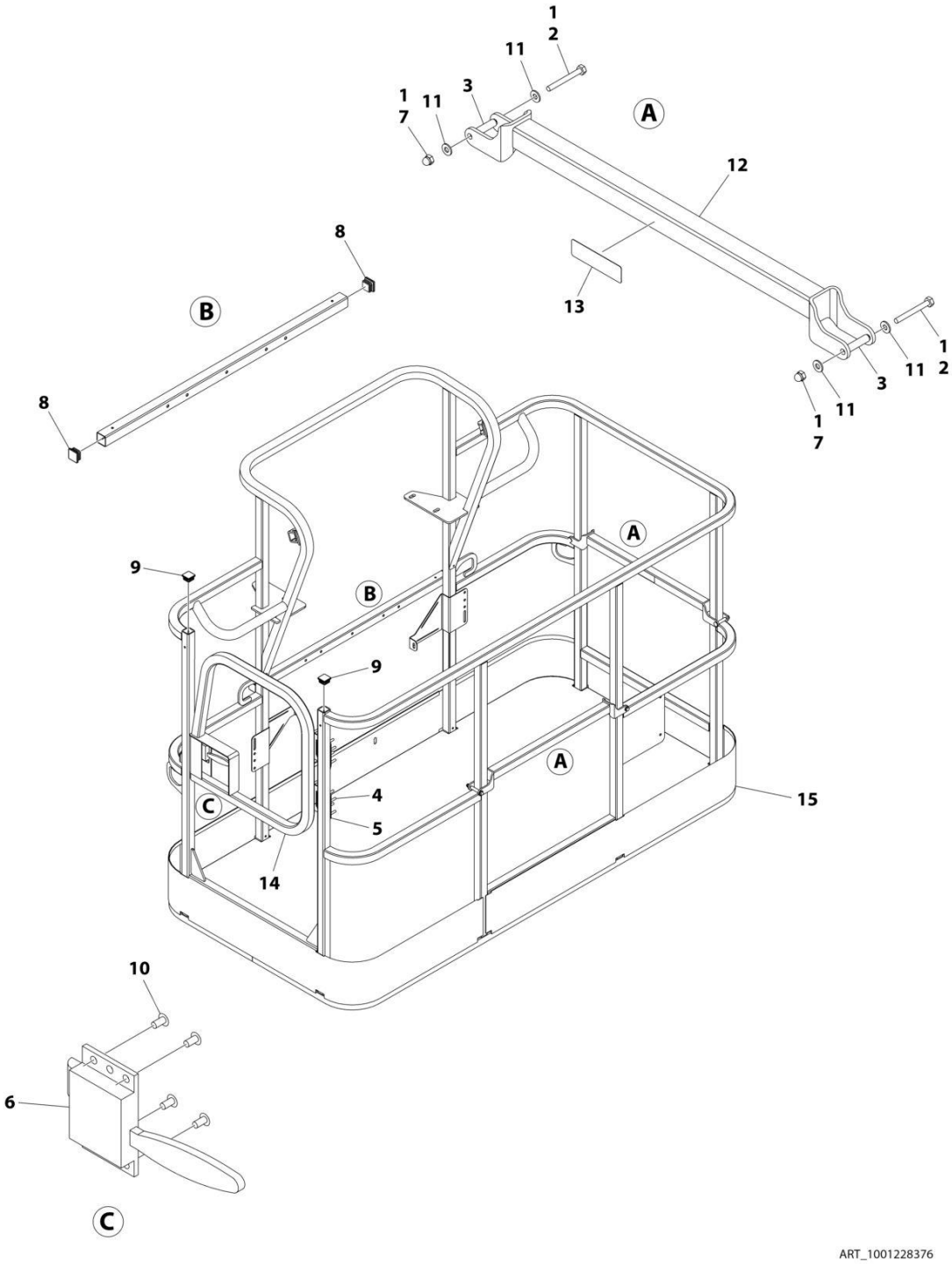

FIGURE 5-8. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) TRI-ENTRY WITH SWING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228376	Ref	PLATFORM ASSEMBLY - 36IN x 6FT (91.5CM x 1.83M)	B
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.	
1	0100011	AR	Compound, Locking	
2	0641418	4	Bolt 1/4 x 2-1/4	
3	0961845	4	Bushing	
4	2080040	16	Fastener	
5	2600281	2	Hinge	
6	2940074	1	Latch	
7	3300151	4	Nut 1/4	
8	3520072	3	Plug	
9	3520198	2	Plug	
10	3820020	4	Rivet	
11	4711400	8	Washer 1/4	
12	1001138494	2	Bar, Drop	
13	1001140429	2	Decal - Drop Bar	
14	1001144629	1	Gate	
15	See Note	NSS	Platform (Note: Not Available - Purchase Platform Assembly)	

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FIGURE 5-9. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) TRI-ENTRY WITH DROP BAR

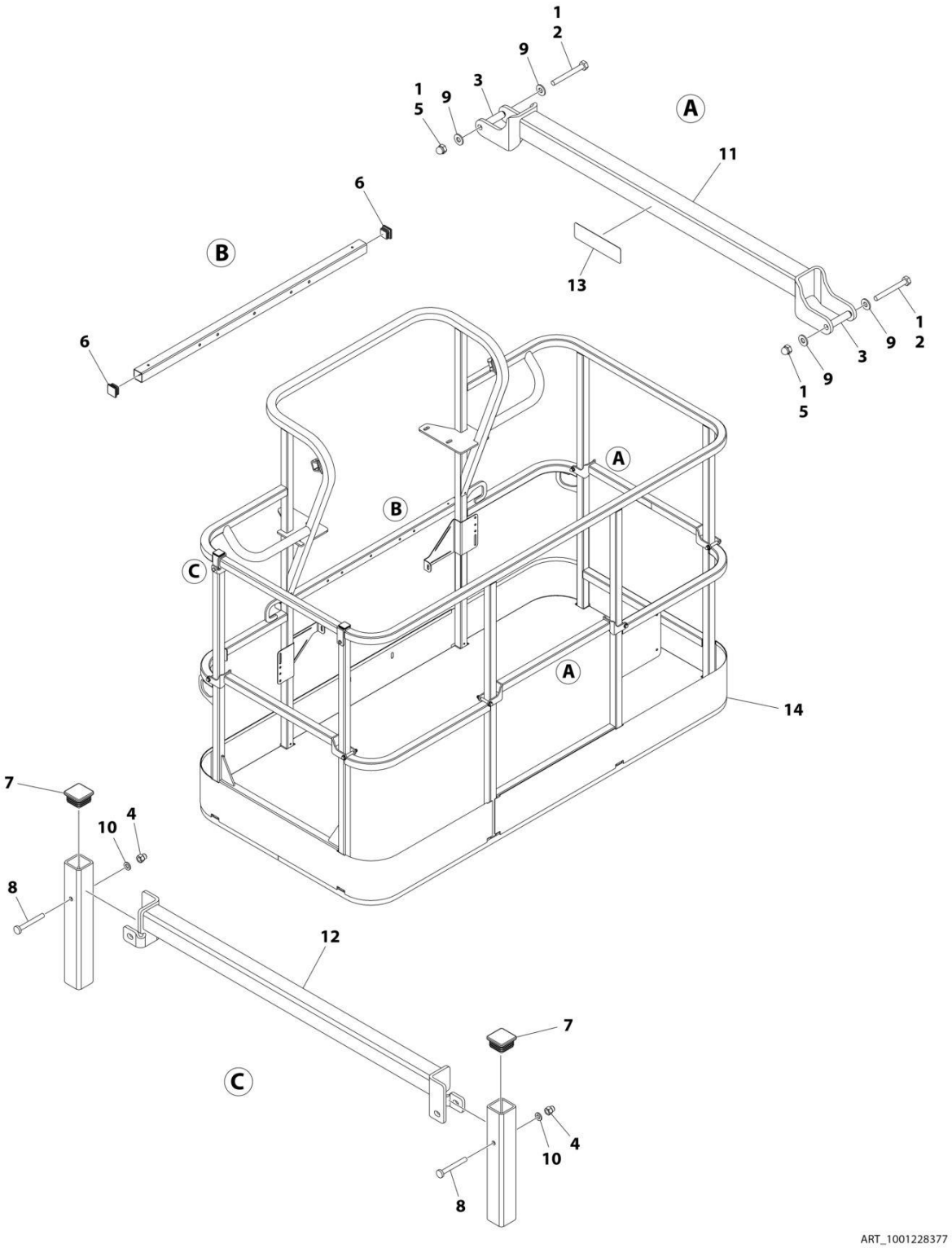

FIGURE 5-9. PLATFORM ASSEMBLY - 36IN X 6FT (91.5CM X 1.83M) TRI-ENTRY WITH DROP BAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228377	Ref	PLATFORM ASSEMBLY - 36IN x 6FT (91.5CM x 1.83M)	B
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.	
1	0100011	1	Compound, Locking	
2	0641418	6	Bolt 1/4 x 2-1/4	
3	0961845	6	Bushing	
4	3290606	2	Nut M6	
5	3300151	6	Nut 1/4	
6	3520072	2	Plug	
7	3520198	2	Plug	
8	4010618	2	Screw M6 x 50	
9	4711400	12	Washer 1/4	
10	4811700	2	Washer M6	
11	1001138494	3	Bar, Drop	
12	1001138514	1	Rail (Top)	
13	1001140429	3	Decal - Drop Bar	
14	See Note	NSS	Platform, Weldment (Note: Not Available - Purchase Platform Assembly)	

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FIGURE 5-10. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) TRI-ENTRY WITH DROPBAR

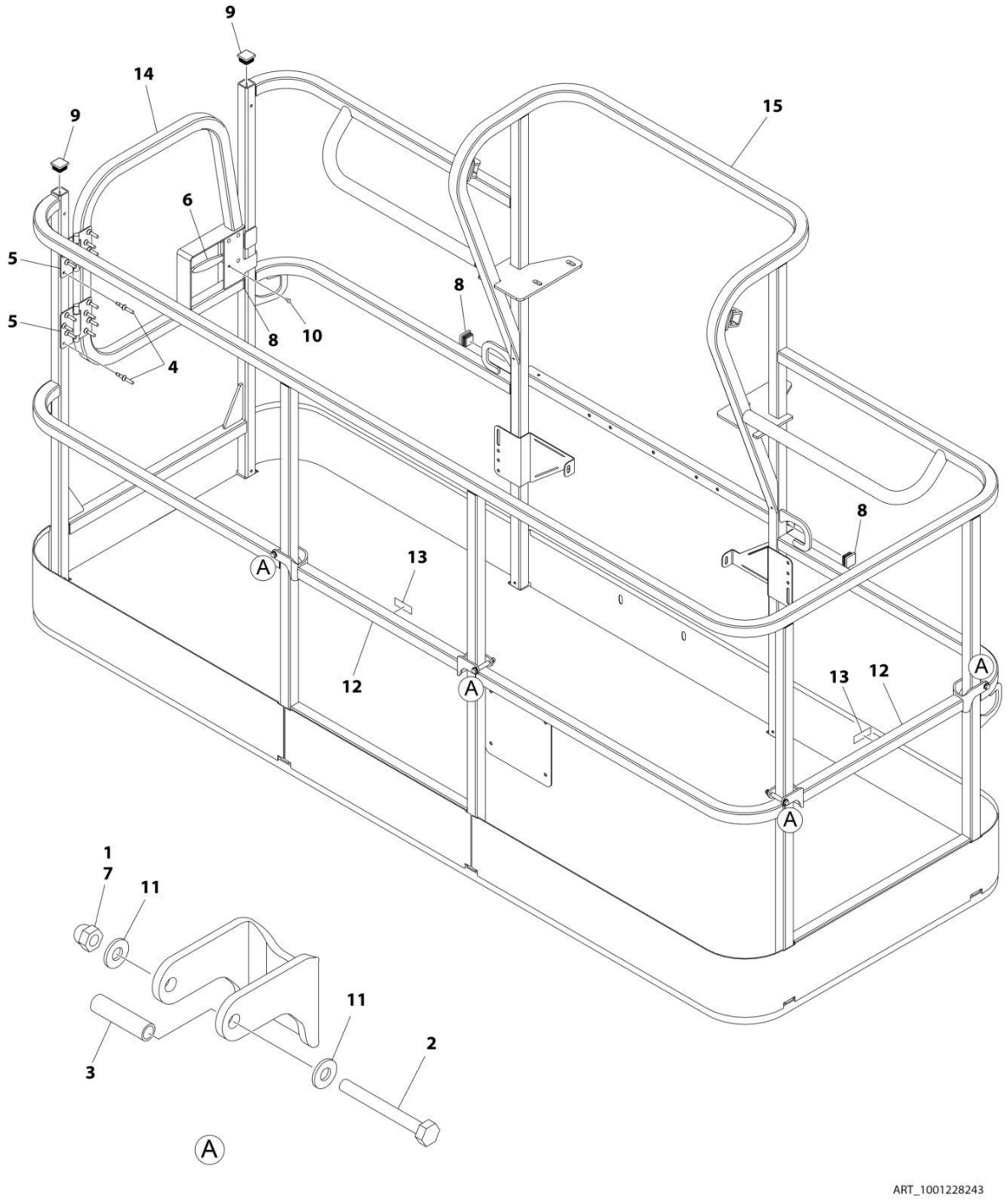

FIGURE 5-10. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) TRI-ENTRY WITH DROPBAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228243	Ref	PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH TRI-ENTRY	A
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
1	0100011	AR	Compound, Locking	
2	0641418	4	Bolt 1/4 x 2-1/4	
3	0961845	4	Bushing	
4	2080040	16	Fastener, Huck	
5	2600281	2	Hinge, Self-Closing	
6	2940074	1	Latch	
7	3300151	4	Nut 1/4	
8	3520072	3	Cap, Plug	
9	3520198	2	Cap, Plug	
10	3820020	4	Rivet	
11	4711400	8	Washer 1/4	
12	1001138494	2	Bar, Drop	
13	1001140429	2	Decal - Drop Bar	
14	1001144629	1	Gate, Weldment	
15	See Note	1	Platform (Note: Not Available - Purchase Platform Assembly)	

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FIGURE 5-11. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) TRI-ENTRY WITH DROPGATE

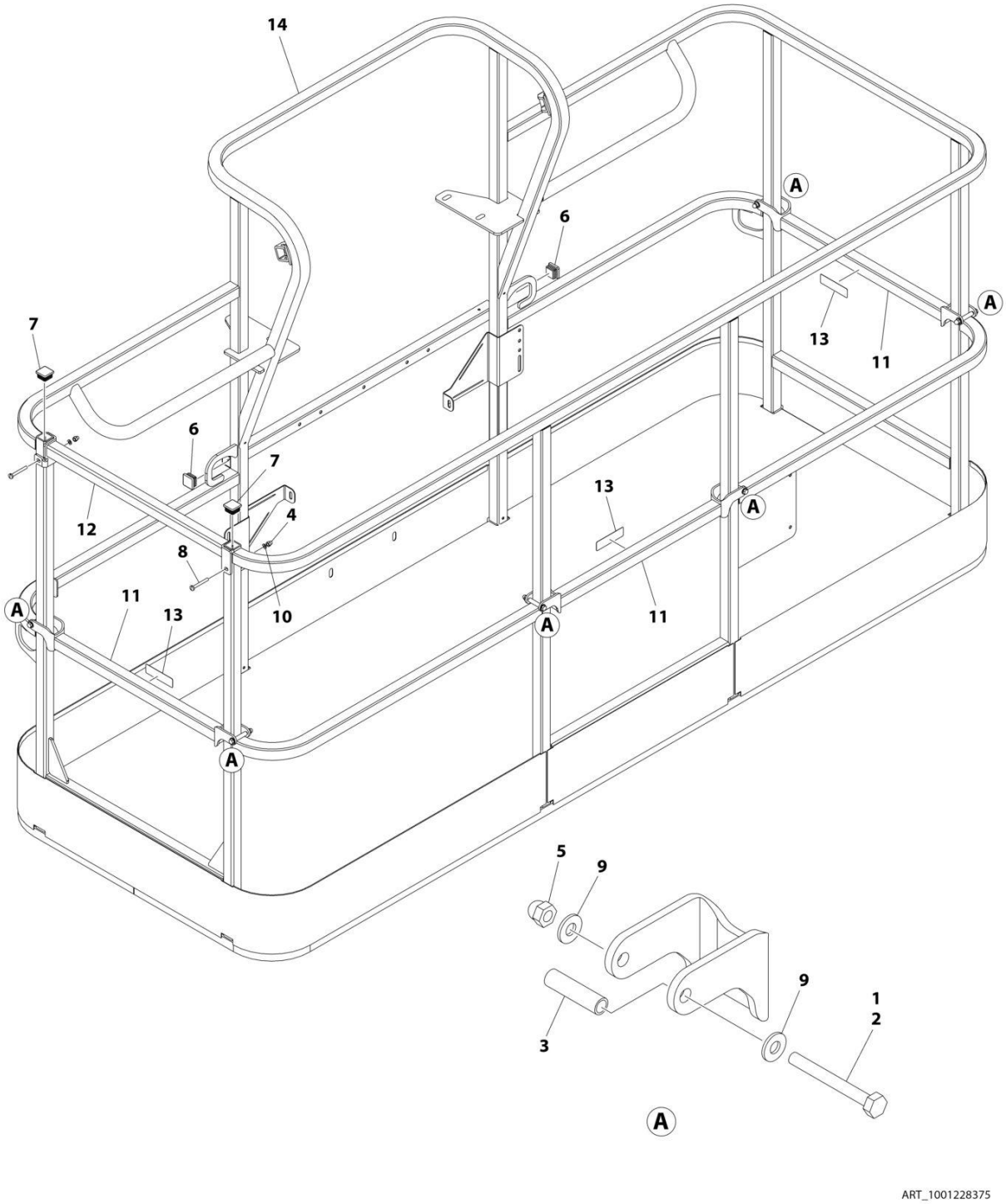

FIGURE 5-11. PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) TRI-ENTRY WITH DROPGATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228375	Ref	PLATFORM ASSEMBLY - 36IN X 8FT (91.5CM X 2.44M) WITH TRI-ENTRY	A
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.	
1	0100011	AR	Compound, Locking	
2	0641418	6	Bolt 1/4 x 2-1/4	
3	0961845	6	Bushing	
4	3290606	2	Nut M6 x 1	
5	3300151	6	Nut 1/4	
6	3520072	2	Cap, Plug	
7	3520198	2	Cap, Plug	
8	4010618	2	Screw M6 x 50	
9	4711400	12	Washer 1/4	
10	4811700	2	Washer M6	
11	1001138494	3	Bar, Drop	
12	1001138514	1	Rail (Top)	
13	1001140429	3	Decal - Drop Bar	
14	See Note	1	Platform (Note: Not Available - Purchase Platform Assembly)	

FIGURE 5-12. TRAY INSTALLATION

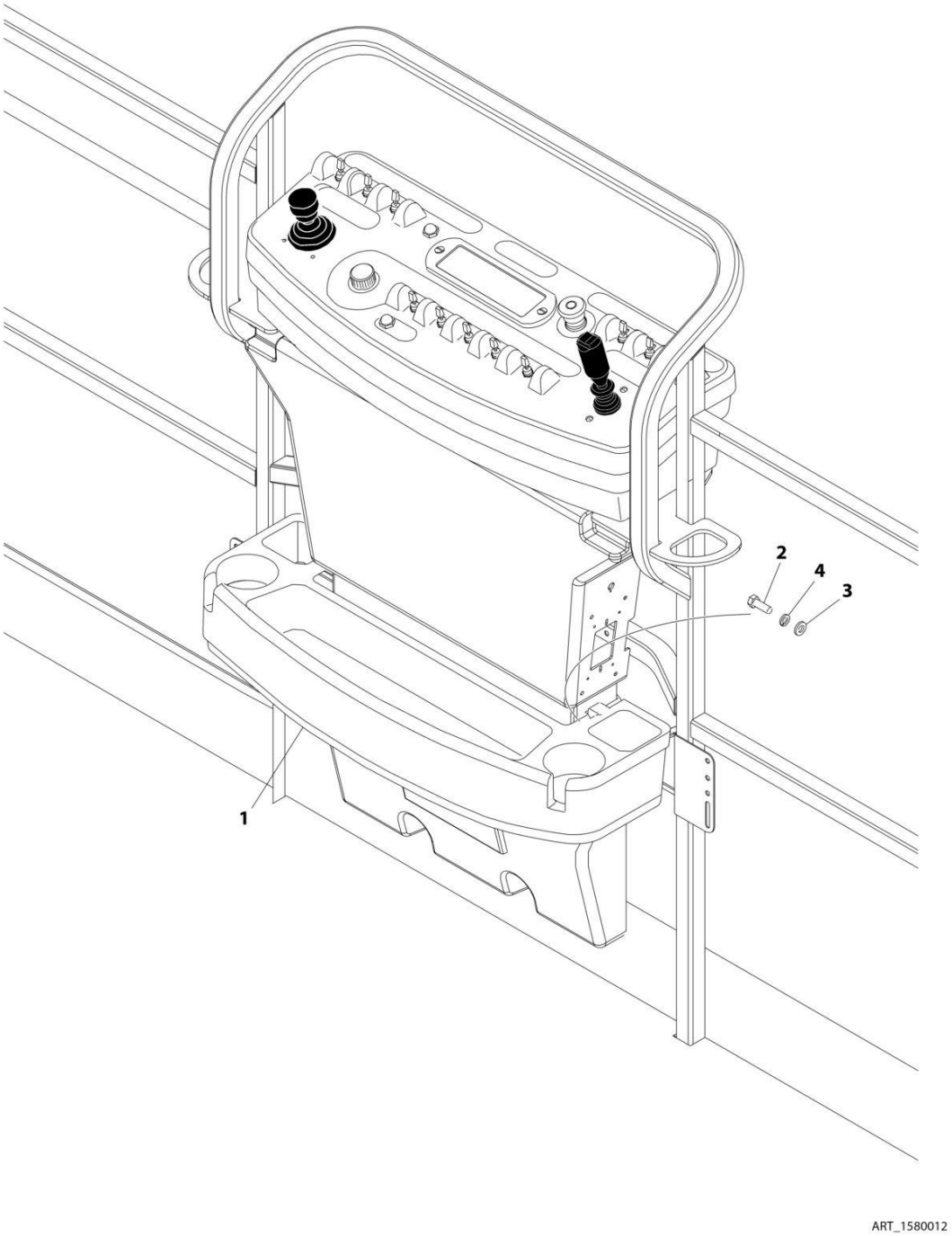

FIGURE 5-12. TRAY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1580012	Ref	TRAY ASSEMBLY	C
1	See Note	NSS	Tray, Storage (Center) (Note: Purchase p/n 1580012)	
2	0641406	2	Bolt 1/4 x 3/4	
3	4751400	2	Washer 1/4	
4	4761400	2	Washer 1/4	

FIGURE 5-13. PLATFORM CONTROLS INSTALLATION (WITHOUT TOWER STOW)

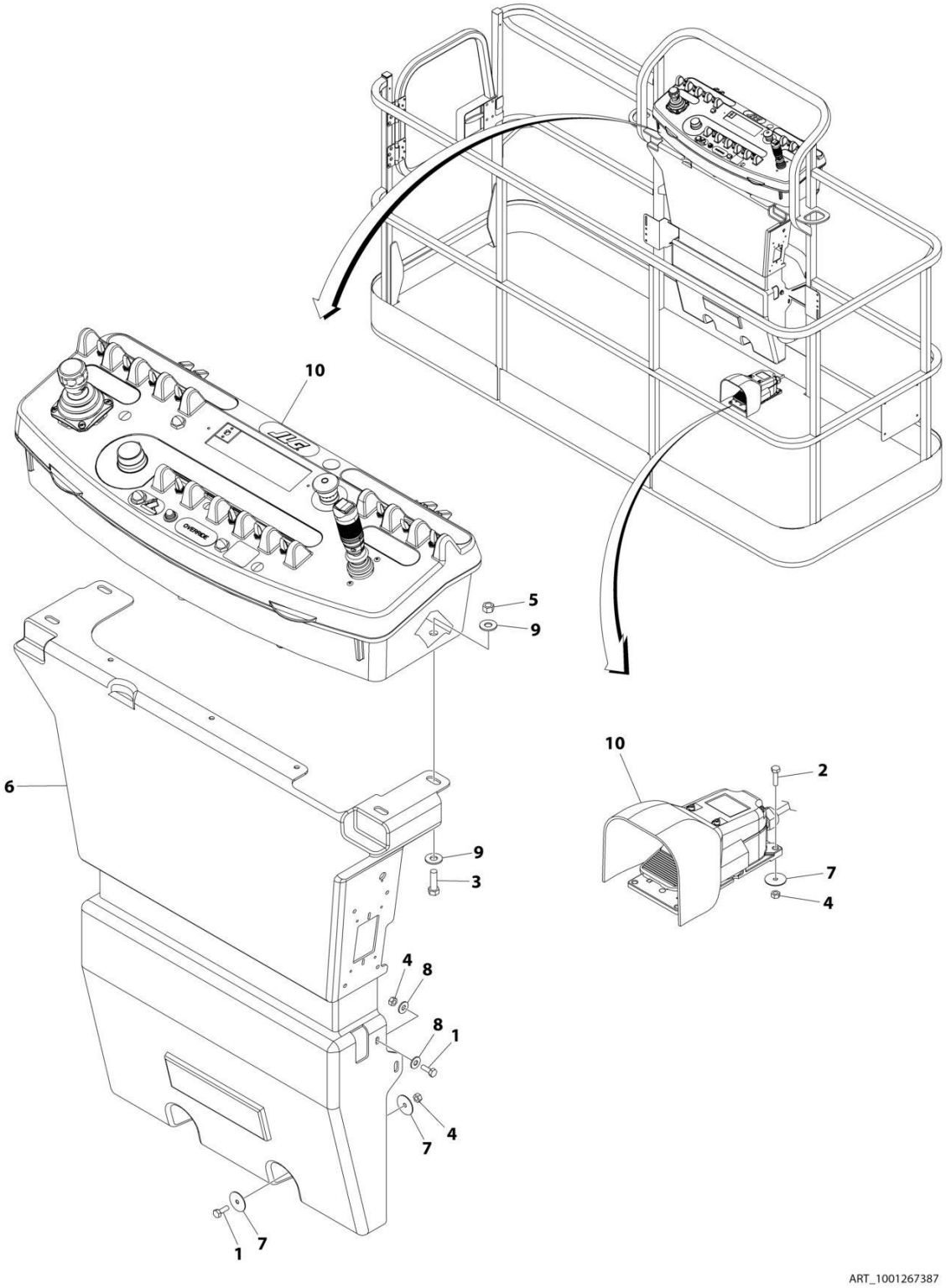

FIGURE 5-13. PLATFORM CONTROLS INSTALLATION (WITHOUT TOWER STOW)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267387	Ref	PLATFORM CONTROLS INSTALLATION	A
1	0641406	4	Bolt 1/4 x 3/4	
2	0641408	3	Bolt 1/4 x 1	
3	0641610	4	Bolt 3/8 x 1-1/4	
4	3311405	7	Nut 1/4	
5	3311605	4	Nut 3/8	
6	3380434	1	Panel, Molded	
7	4740362	7	Washer, Fender	
8	4751400	4	Washer 1/4	
9	4751600	8	Washer 3/8	
10	1001267389	1	Platform Console Box Assembly (See Separate Breakdown in this Section)	

FIGURE 5-14. PLATFORM CONTROLS INSTALLATION (WITH TOWER STOW)

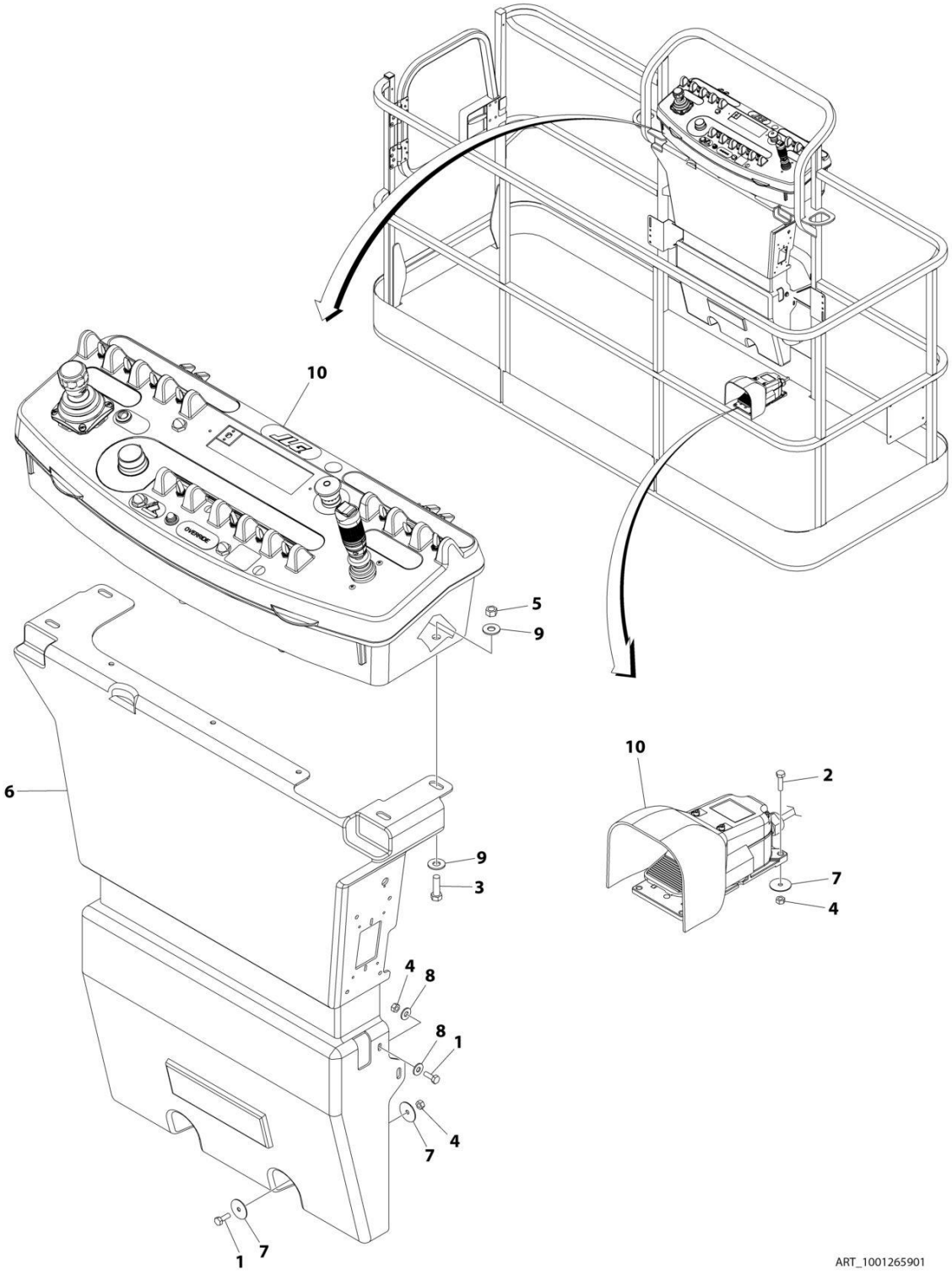

FIGURE 5-14. PLATFORM CONTROLS INSTALLATION (WITH TOWER STOW)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265901	Ref	PLATFORM CONTROLS INSTALLATION	A
1	0641406	4	Bolt 1/4 x 3/4	
2	0641408	3	Bolt 1/4 x 1	
3	0641610	4	Bolt 3/8 x 1-1/4	
4	3311405	7	Nut 1/4	
5	3311605	4	Nut 3/8	
6	3380434	1	Panel, Molded	
7	4740362	7	Washer, Fender	
8	4751400	4	Washer 1/4	
9	4751600	8	Washer 3/8	
10	1001265903	1	Platform Console Box Assembly (See Separate Breakdown in this Section)	

FIGURE 5-15. PLATFORM CONSOLE ASSEMBLY (WITHOUT TOWER STOW)

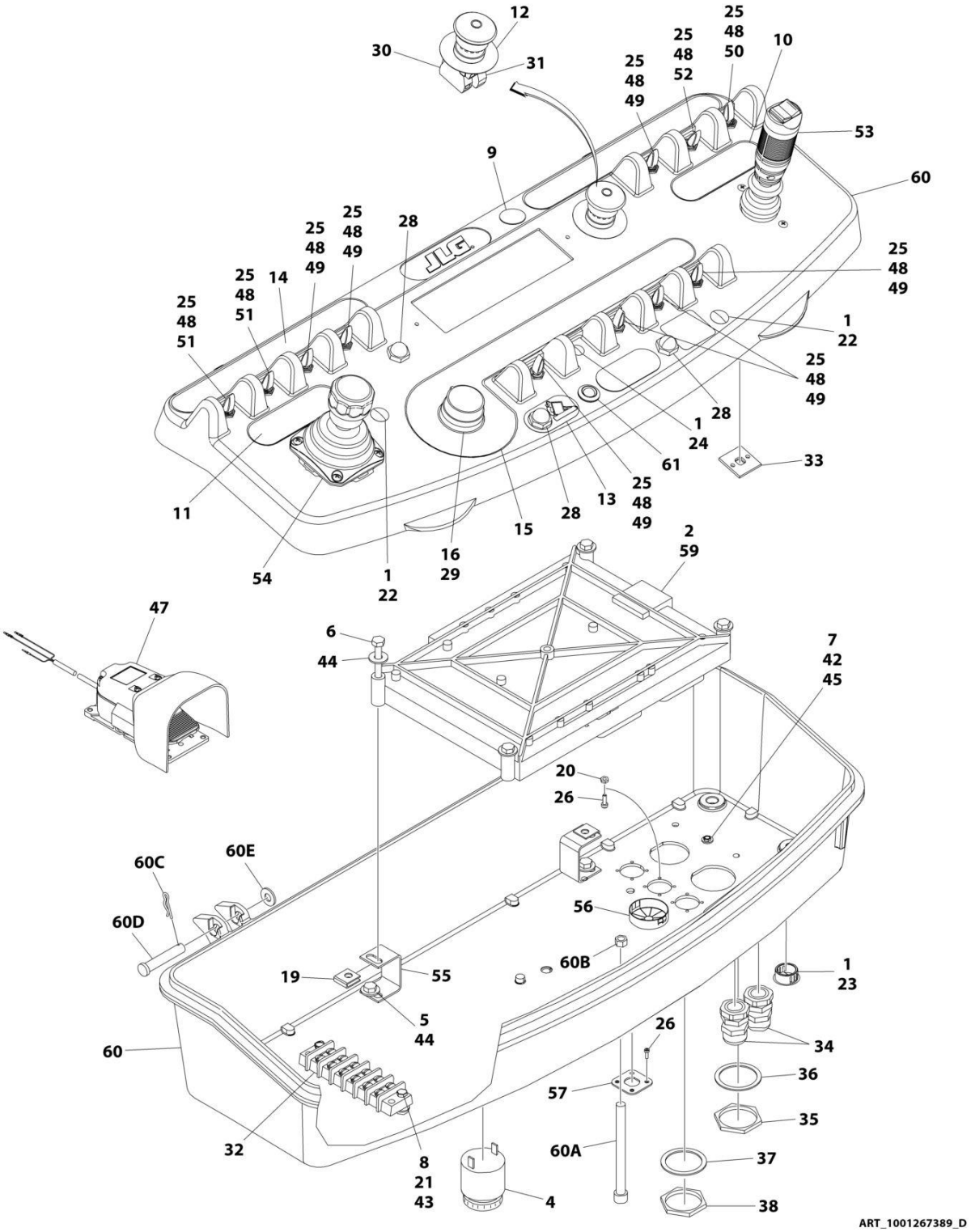

FIGURE 5-15. PLATFORM CONSOLE ASSEMBLY (WITHOUT TOWER STOW)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001267389	Ref	PLATFORM CONSOLE ASSEMBLY	D
1	0100009	AR	Sealant	
2	0100035	AR	Compound, Locking	
4	0140011	1	Alarm	
5	0641405	4	Bolt 1/4 x 5/8	
6	0641414	4	Bolt 1/4 x 1-3/4	
7	0720804	1	Screw #8 x 1/2	
8	0721006	2	Bolt #10 x 3/4	
9	1671314	1	Cover, Hole	
10	1702565	1	Decal - Drive and Steer	
11	1702566	1	Decal - Lift and Swing	
12	1704260	1	Decal - EMS	
13	1705171	1	Decal - Jib Stow	
14	1705744	1	Decal - Horn	
15	1705745	1	Decal - Function Speed	
16	2560136	1	Handle, Knob	
19	3300353	4	Nut, Tinnerman	
20	3300482	2	Nut M2.5	
21	3311005	2	Nut #10	
22	3520026	2	Plug, Hole	
23	3520030	1	Plug, Hole	
24	3520054	1	Plug, Hole	
25	3790012	11	O-Ring	
26	3900349	12	Capscrew M2.5	
28	4360387	3	Switch, Pushbutton	
29	4360407	1	Controller, Speed	
29	See Note	NSS	Gasket "Top Hat" (Included with Switch) (Note: Not Available - Purchase Complete Controller)	
30	1001274559	1	Switch, Emergency Stop	
31	4360476	1	Block, Contact	
32	4460007	1	Bar, Buss	
33	4460234	AR	Mount, Tie-Strap	
34	4460428	2	Connector, Strain Relief	
35	4460470	1	Nut, Terminal	
36	4460471	1	Washer, Terminal	
37	4460496	1	Nut, Terminal	
38	4460497	1	Washer, Terminal	
42	4750800	1	Washer #8	
43	4751000	2	Washer #10	
44	4751400	8	Washer 1/4	
45	4760800	1	Washer	
46	4922666	1	Harness, Analyzer Cable (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
47	1001117174	1	Footswitch Assembly (See Separate Breakdown in this Section)	
48	1001155044	11	Nut 15/32-32	
49	1001155045	7	Switch, Toggle	
50	1001159256	1	Switch, Toggle	
51	1001161709	2	Switch, Toggle	
52	1001161710	1	Switch, Toggle	
53	1001275628	1	Controller Assembly (Drive and Steer)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54	1001275629	1	Controller Assembly (Lift and Swing)	
55	1001172760	4	Bracket, Support	
56	1001185281	1	Plug	
57	1001220929	1	Mount, Connector	
58	1001241891	1	Harness, Console Box (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
59	1600343	1	Module, Platform Control (Note: Re-calibration Required when Replaced)	
60	1001265905	1	Box, Console	B
60A	0630568	1	Screw 3/8 x 4-1/2	
60B	3311601	1	Nut 3/8	
60C	3430616	2	Clevis	
60D	3470003	2	Pin	
60E	4711600	2	Washer 3/8	
61	1001206532	1	Light, Indicator	
62	4240099	AR	Tie-Strap (Not Shown)	

FIGURE 5-16. PLATFORM CONSOLE ASSEMBLY (WITH TOWER STOW)

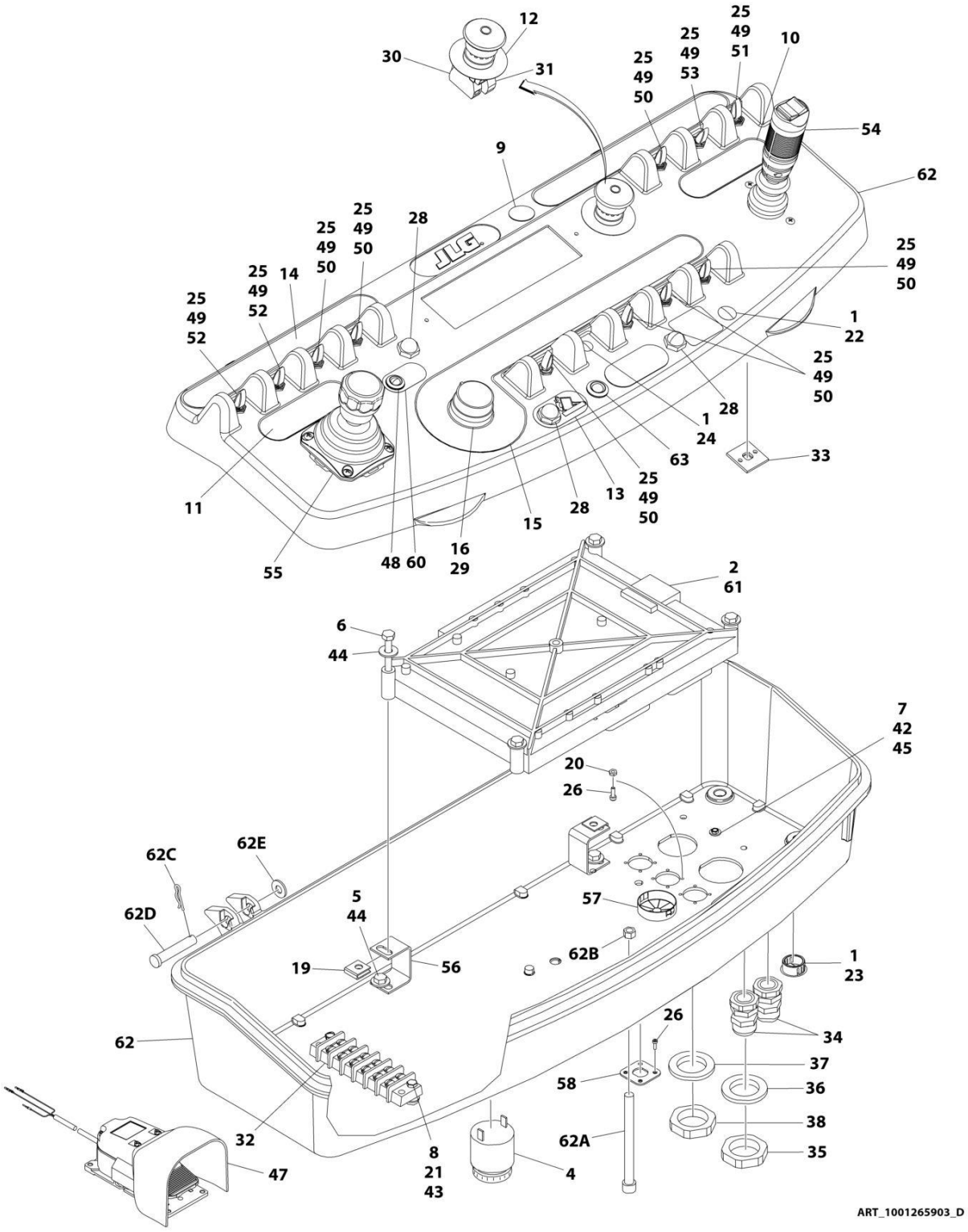

FIGURE 5-16. PLATFORM CONSOLE ASSEMBLY (WITH TOWER STOW)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265903	Ref	PLATFORM CONSOLE ASSEMBLY	D
1	0100009	AR	Sealant	
2	0100035	AR	Compound, Locking	
4	0140011	1	Alarm	
5	0641405	1	Bolt 1/4 x 5/8	
6	0641414	4	Bolt 1/4 x 1-3/4	
7	0720804	1	Screw #8 x 1/2	
8	0721006	2	Bolt #10 x 3/4	
9	1671314	1	Cover, Hole	
10	1702565	1	Decal - Drive and Steer	
11	1702566	1	Decal - Lift and Swing	
12	1704260	1	Decal - EMS	
13	1705171	1	Decal - Jib Stow	
14	1705744	1	Decal - Horn	
15	1705745	1	Decal - Function Speed	
16	2560136	1	Handle, Knob	
19	3300353	4	Nut, Tinnerman	
20	3300482	2	Nut M2.5	
21	3311005	2	Nut #10	
22	3520026	1	Plug, Hole	
23	3520030	1	Plug, Hole	
24	3520054	1	Plug, Hole	
25	3790012	11	O-Ring	
26	3900349	12	Capscrew M2.5	
28	4360387	3	Switch, Pushbutton	
29	4360407	1	Controller, Speed	
	See Note	NSS	Gasket "Top Hat" (Included with Switch) (Note: Not Available - Purchase Complete Controller)	
30	1001274559	1	Switch, Emergency Stop	
31	4360476	1	Block, Contact	
32	4460007	1	Bar, Buss	
33	4460234	AR	Mount, Tie-Strap	
34	4460428	2	Connector, Strain Relief	
35	4460470	1	Nut, Terminal	
36	4460471	1	Washer, Terminal	
37	4460496	1	Nut, Terminal	
38	4460497	1	Washer, Terminal	
42	4750800	1	Washer #8	
43	4751000	2	Washer #10	
44	4751400	8	Washer 1/4	
45	4760800	1	Washer	
46	4922666	1	Harness, Analyzer Cable (Not Shown - See Separate Breakdown in ELECTRICAL Section)	
47	1001117174	1	Footswitch Assembly (See Separate Breakdown in this Section)	
48	1001137364	1	Light, Indicator	
49	1001155044	11	Nut 15/32-32	
50	1001155045	7	Switch, Toggle	
51	1001159256	1	Switch, Toggle	
52	1001161709	2	Switch, Toggle	
53	1001161710	1	Switch, Toggle	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54	1001275628	1	Controller Assembly - Drive and Steer	
55	1001275629	1	Controller Assembly - Lift and Swing	
56	1001172760	4	Bracket, Support	
57	1001185281	1	Plug	
58	1001220929	1	Mount, Connector	
59	1001241891	1	Harness, Console Box (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	
60	1001260937	1	Decal	
61	1600343	1	Module, Platform Control (Note: Re-calibration Required when Replaced)	
62	1001265905	1	Box, Console	B
62A	0630568	1	Screw 3/8 x 4-1/2	
62B	3311601	1	Nut 3/8	
62C	3430616	2	Clevis	
62D	3470003	2	Pin	
62E	4711600	2	Washer 3/8	
63	1001206532	1	Light, Indicator	
64	4240099	AR	Tie-Strap (Not Shown)	

FIGURE 5-17. LIGHT PANEL INSTALLATION

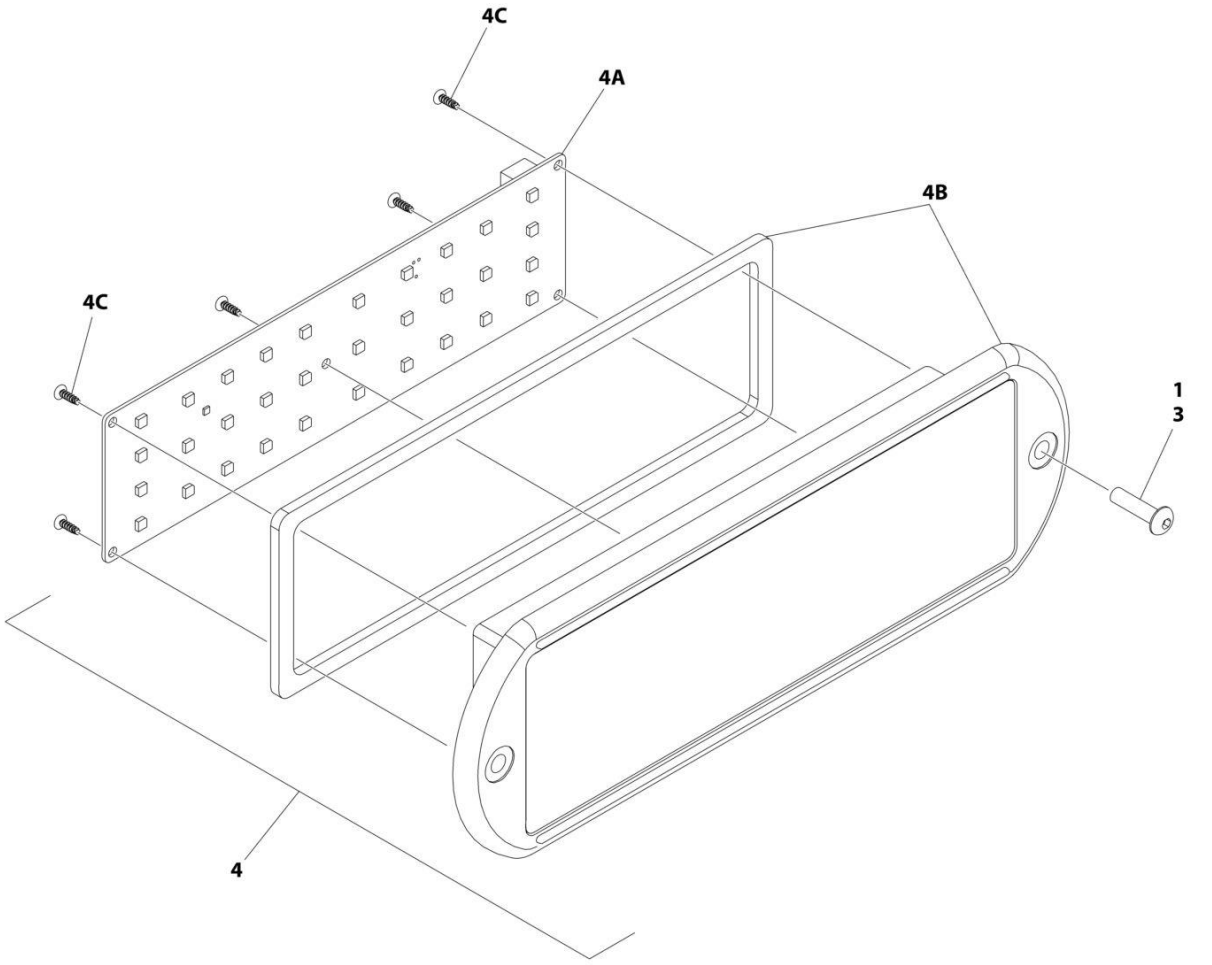


FIGURE 5-17. LIGHT PANEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233959	Ref	LIGHT PANEL INSTALLATION - PLATFORM CONSOLE	D
1	0100035	AR	Compound, Locking	
3	0630518	2	Screw #10 x 3/4	
4	1001284583	1	Light Panel Assembly	A
4A	1001282106	1	Panel, LED Light	
4B	1001284582	1	Lens, Icon (Includes Gasket)	
4C		Ref	Screw	

FIGURE 5-18. TOWER LIFT SWITCH INSTALLATION

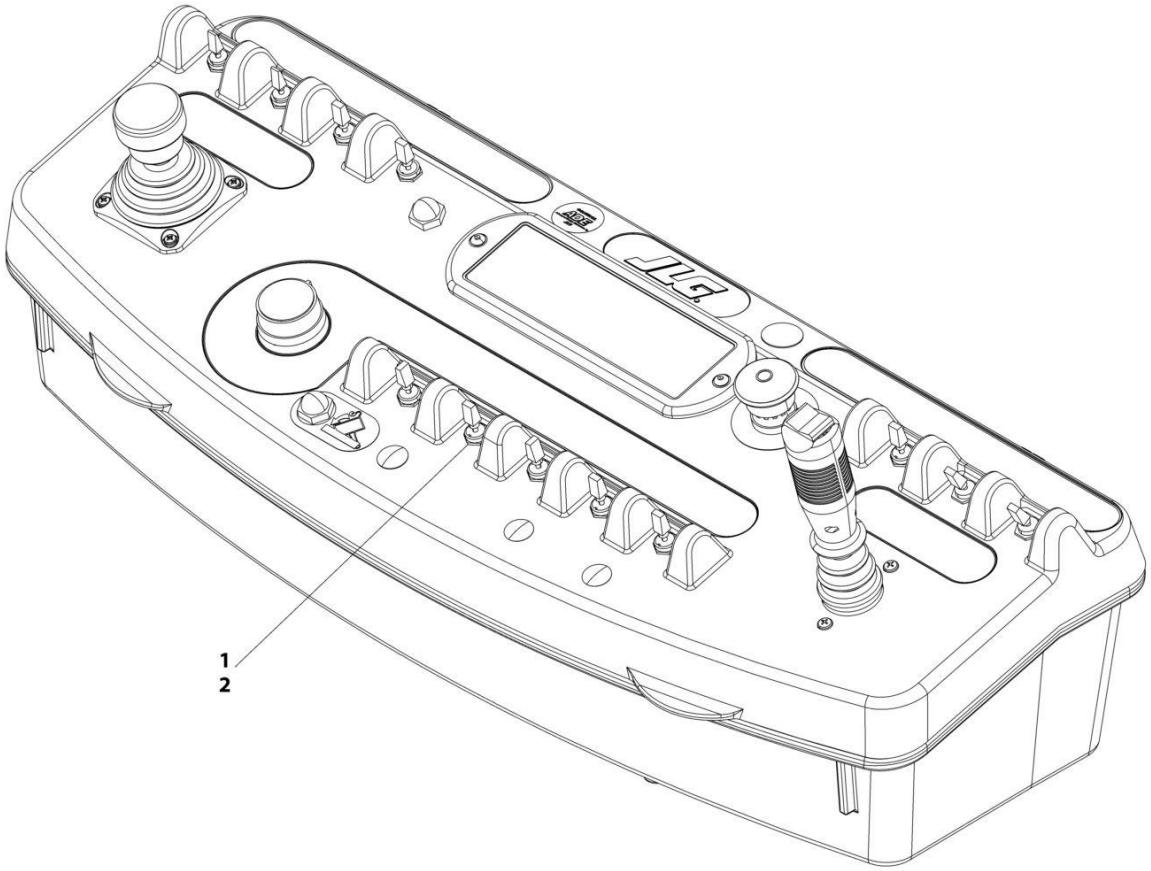


FIGURE 5-18. TOWER LIFT SWITCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273446	Ref	TOWER LIFT SWITCH INSTALLATION	A
1	3790012	1	O-Ring	
2	4360328	1	Switch, Toggle	

FIGURE 5-19. FOOTSWITCH ASSEMBLY

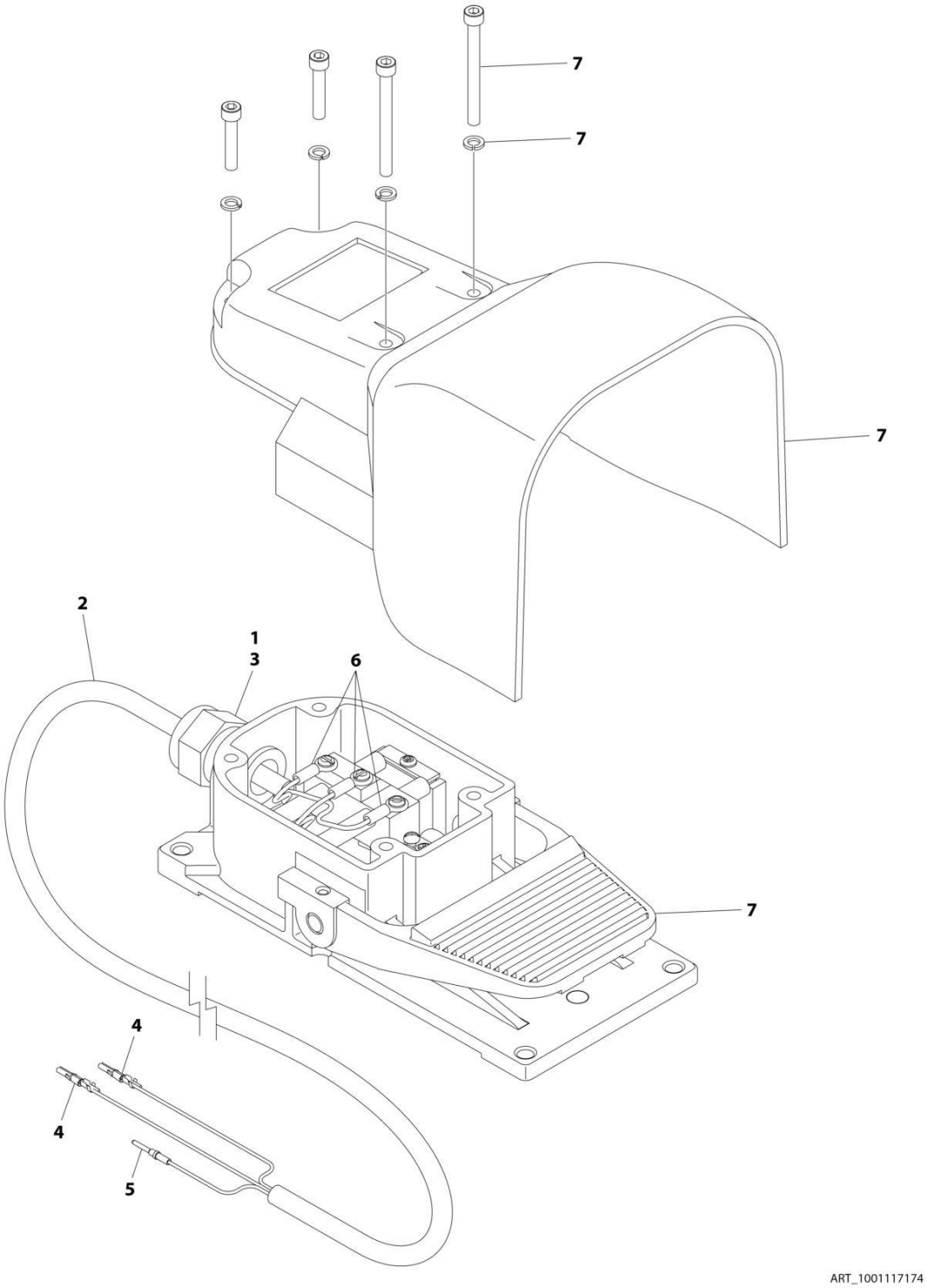


FIGURE 5-19. FOOTSWITCH ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001117174	Ref	FOOTSWITCH ASSEMBLY	C
1	0100020	AR	Sealant	
2	1060918	7.5 ft/ 2.3m	Cable, Electrical - 18/3	
3	4460071	1	Connector, Strain Relief	
4	4460226	2	Socket, Female	
5	4460464	1	Pin, Male	
6	1001098122	3	Terminal	
7	1001117172	1	Footswitch	
7	70002902	1	Switch, 20Amp	
7	70002903	1	Gasket	
7	70002905	1	Cover	
7	70002904	1	Kit, Replacement Bolt	

FIGURE 5-20. SKYEYE INSTALLATION

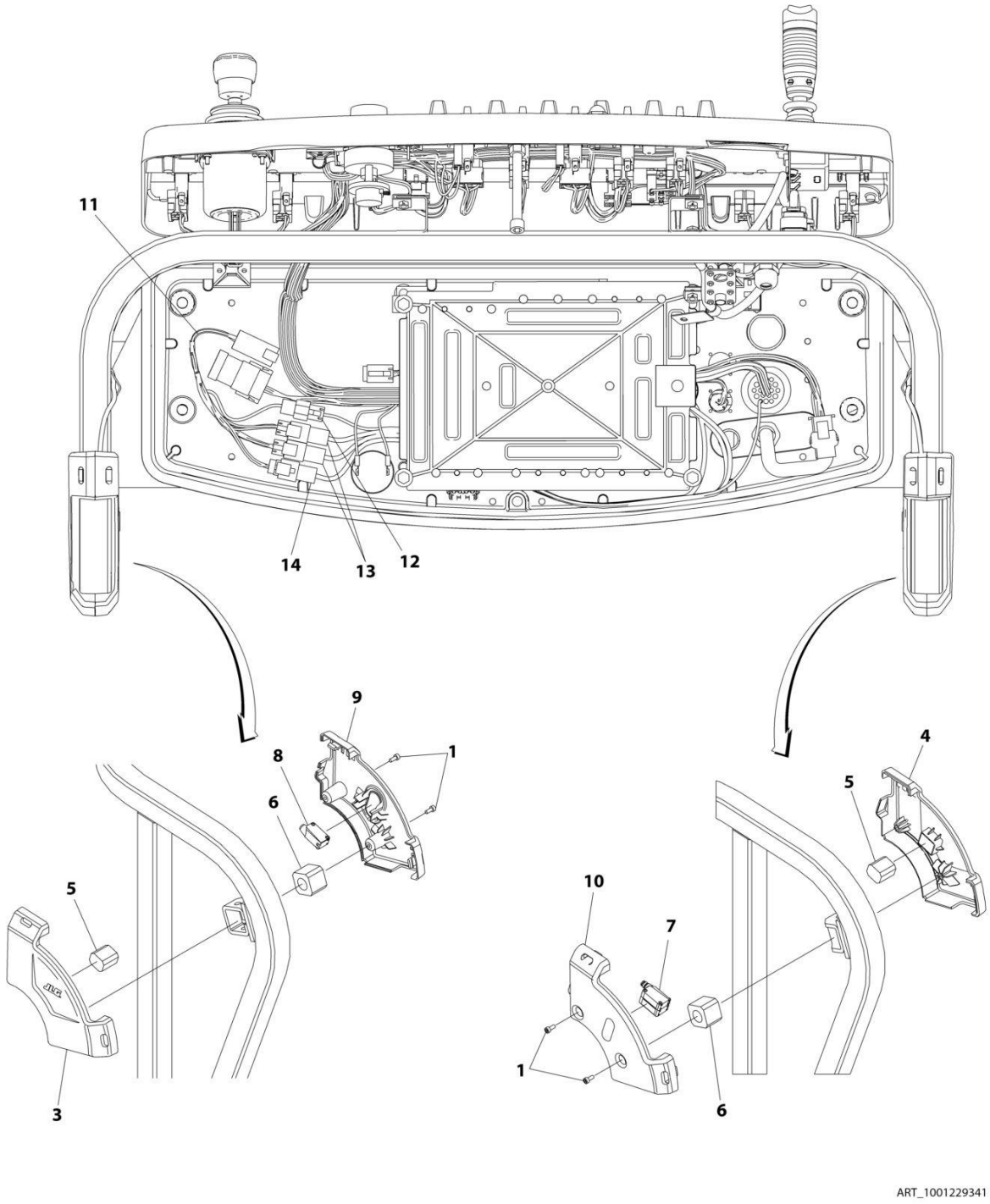


FIGURE 5-20. SKYEYE INSTALLATION

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)	

FIGURE 5-21. SKYGUARD BAR INSTALLATION

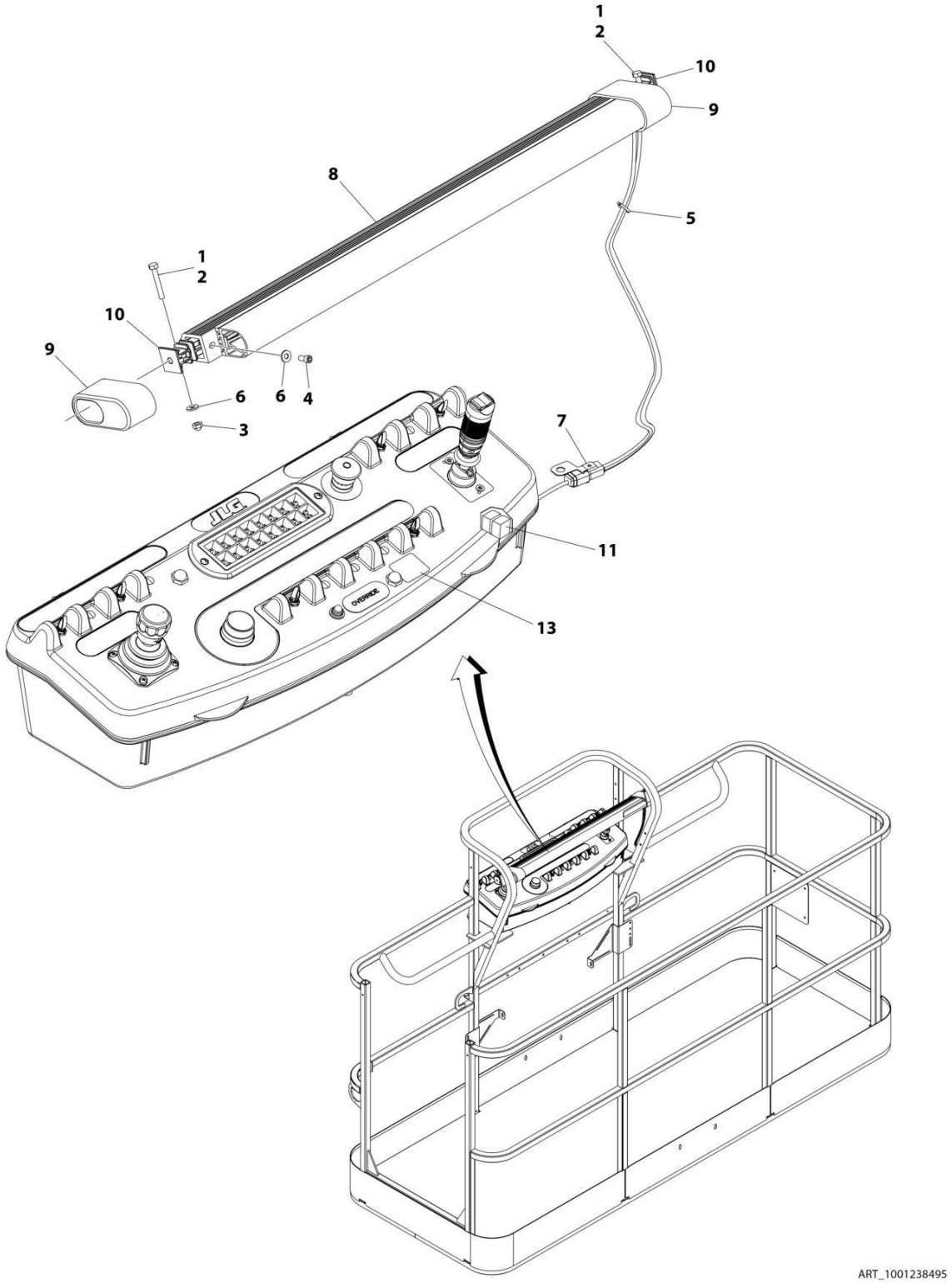


FIGURE 5-21. SKYGUARD BAR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238495	Ref	SKYGUARD BAR INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0641414	2	Bolt 1/4 x 1-3/4	
3	3300430	2	Nut 1/4	
4	3931408	2	Capscrew 1/4 x 1/2	
5	4240033	8	Tie-Strap	
6	4711400	6	Washer 1/4	
7	1001120328	1	Mount	
8	1001137673	1	SkyGuard Switch Assembly	
9	1001186517	2	Cover, Platform Sensor	
10	1001209664	2	Support, Block	
11	1001186431	2	Relay	
12	1001225580	1	Interface Harness Assembly (Not Shown - Located Inside Console Box) (See Separate Breakdown in ELECTRICAL Section)	
13	1001144433	1	Decal - No Weight SkyGuard	

FIGURE 5-22. SKYLINE INSTALLATION

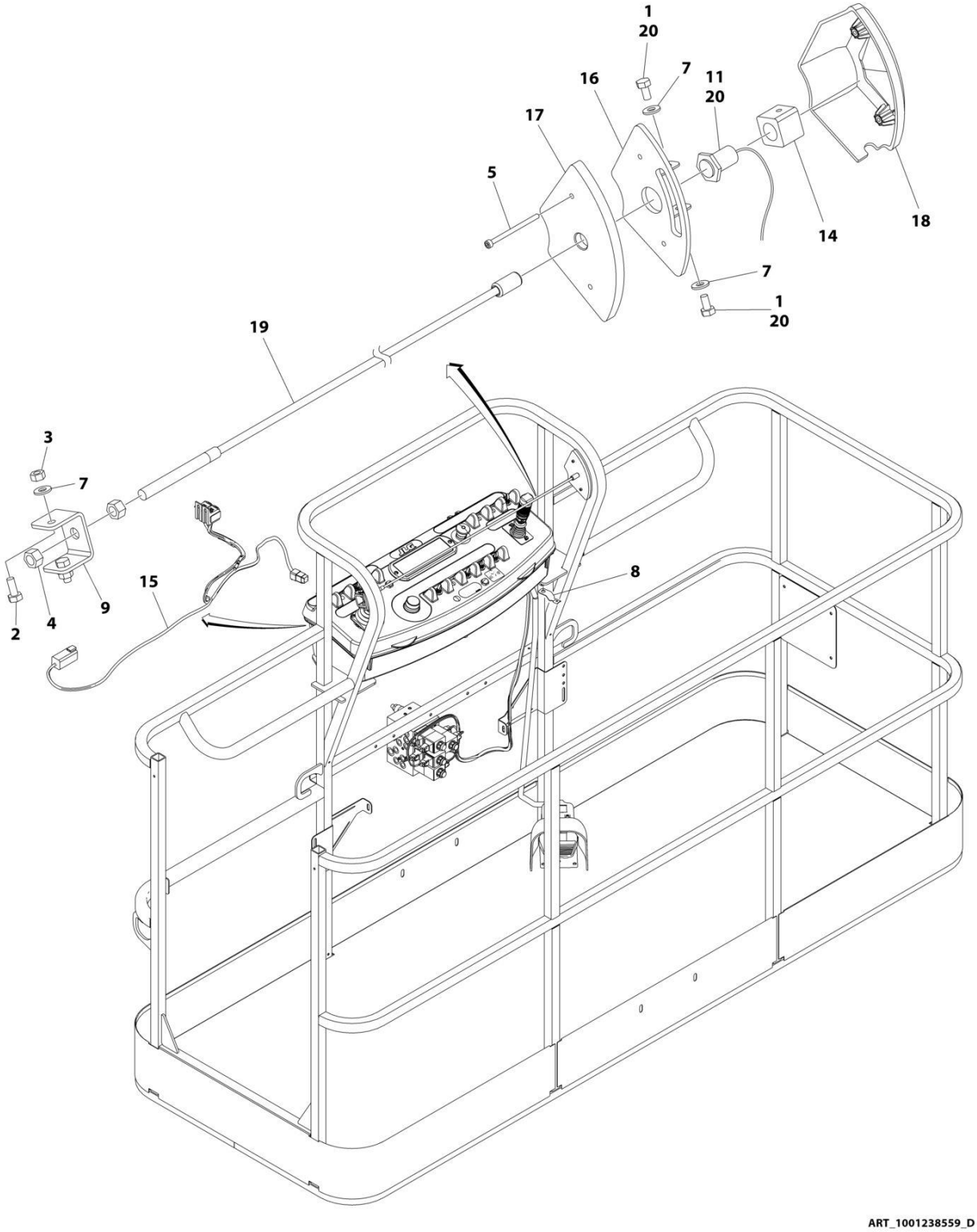


FIGURE 5-22. SKYLINE INSTALLATION

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	

FIGURE 5-23. USB CHARGER INSTALLATION

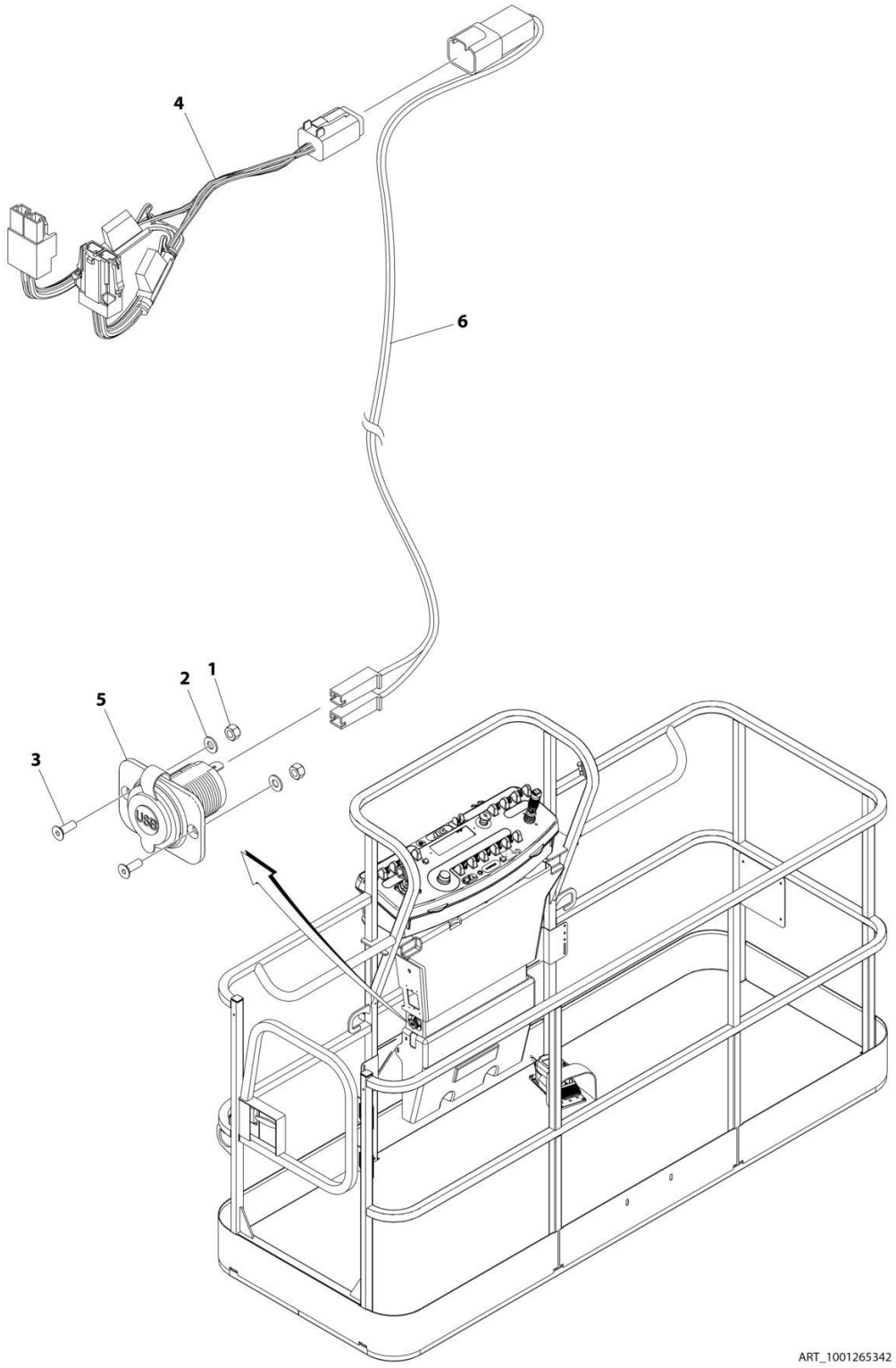


FIGURE 5-23. USB CHARGER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265342	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	2	Terminal	
4	2400060	2	Fuseholder Includes Cover	
4	8229249	2	Fuse, 3 Amp	
4	4460884	1	Connector - 4 Position	
4	4460465	4	Socket, Female	
4	1001120471	1	Connector - 2 Position	
4	1001120477	2	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	

FIGURE 5-24. SOFT TOUCH SYSTEM INSTALLATION - 6FT/1.8M PLATFORMS (OPTIONAL)

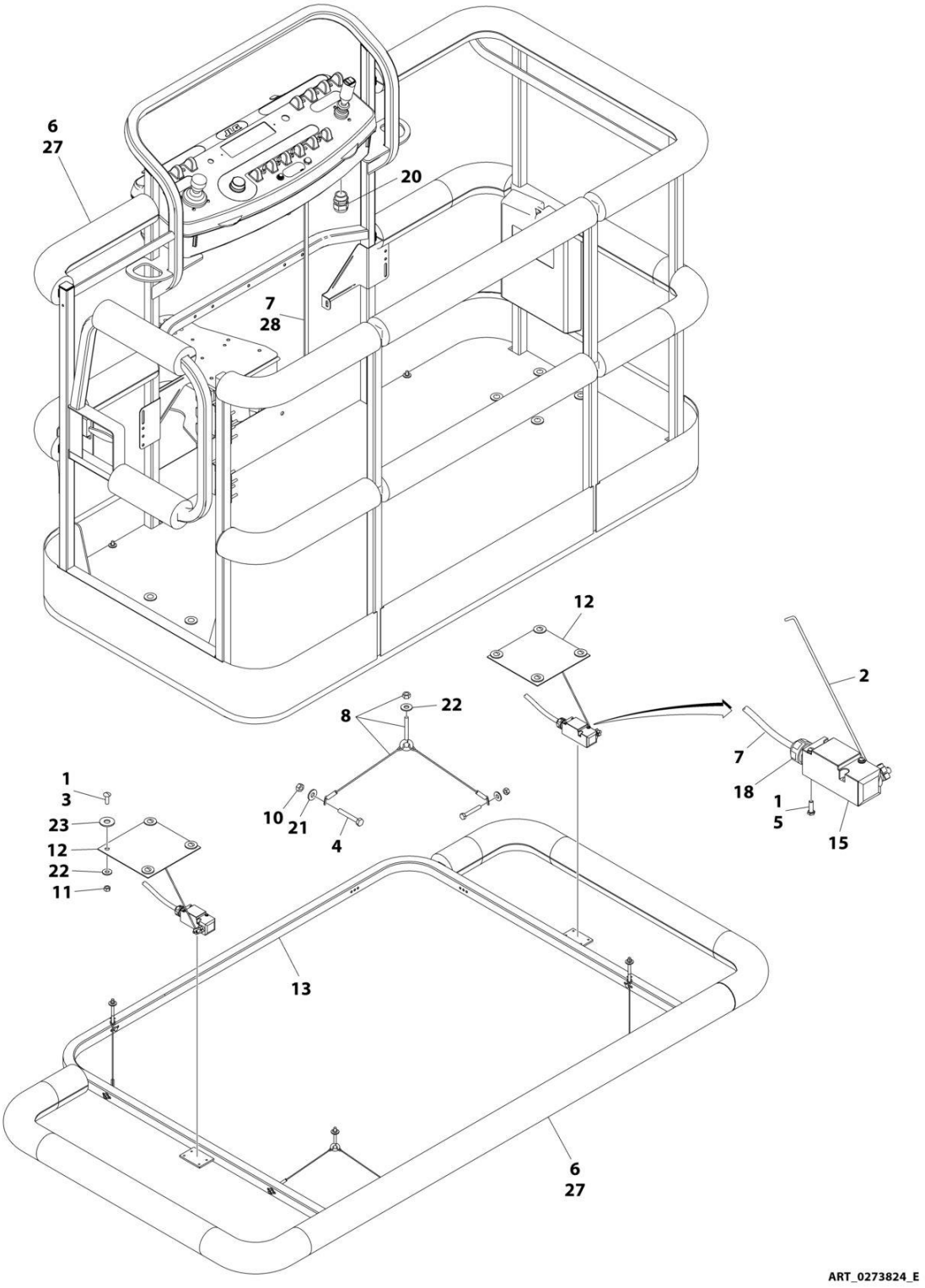


FIGURE 5-24. SOFT TOUCH SYSTEM INSTALLATION - 6FT/1.8M PLATFORMS (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273824	Ref	SOFT TOUCH SYSTEM INSTALLATION	E
1	0100011	AR	Compound, Locking	
2	0200048	2	Arm, Switch	
3	0630462	8	Bolt	
4	0641414	8	Bolt 1/4 x 1-3/4	
5	0731005	4	Bolt #10 x 5/8	
6	0940134	1	Bumper Kit (Includes Corners and Enough Straight Material for One Platform)	
6	0940092	AR	Bumper (Corner)	
6	0940094	AR	Bumper (12ft Length)	
7	1060341	23 ft/7m	Cable, Soft Touch - 16/2	
8	1060903	4	Wire Rope and Eyebolt Assembly	
10	3311401	8	Nut 1/4	
11	3311501	8	Nut 5/16	
12	3575359	2	Plate, Switch Strike	
13	3641569	1	Rail, Soft Touch	
14	4240099	7	Tie-Strap (Not Shown)	
15	4360057	2	Switch, Limit	
18	4460049	2	Connector, Strain Relief	
19	4460234	7	Tie-Strap (Not Shown)	
20	4460425	1	Connector, Strain Relief	
21	4751400	8	Washer 1/4	
22	4751500	12	Washer 5/16	
23	4751800	8	Washer 1/2	
27	1001197017	AR	Tie-Strap	
28	4460226	4	Socket	

FIGURE 5-25. SOFT TOUCH SYSTEM INSTALLATION - 6FT/1.83M FALL ARREST PLATFORM

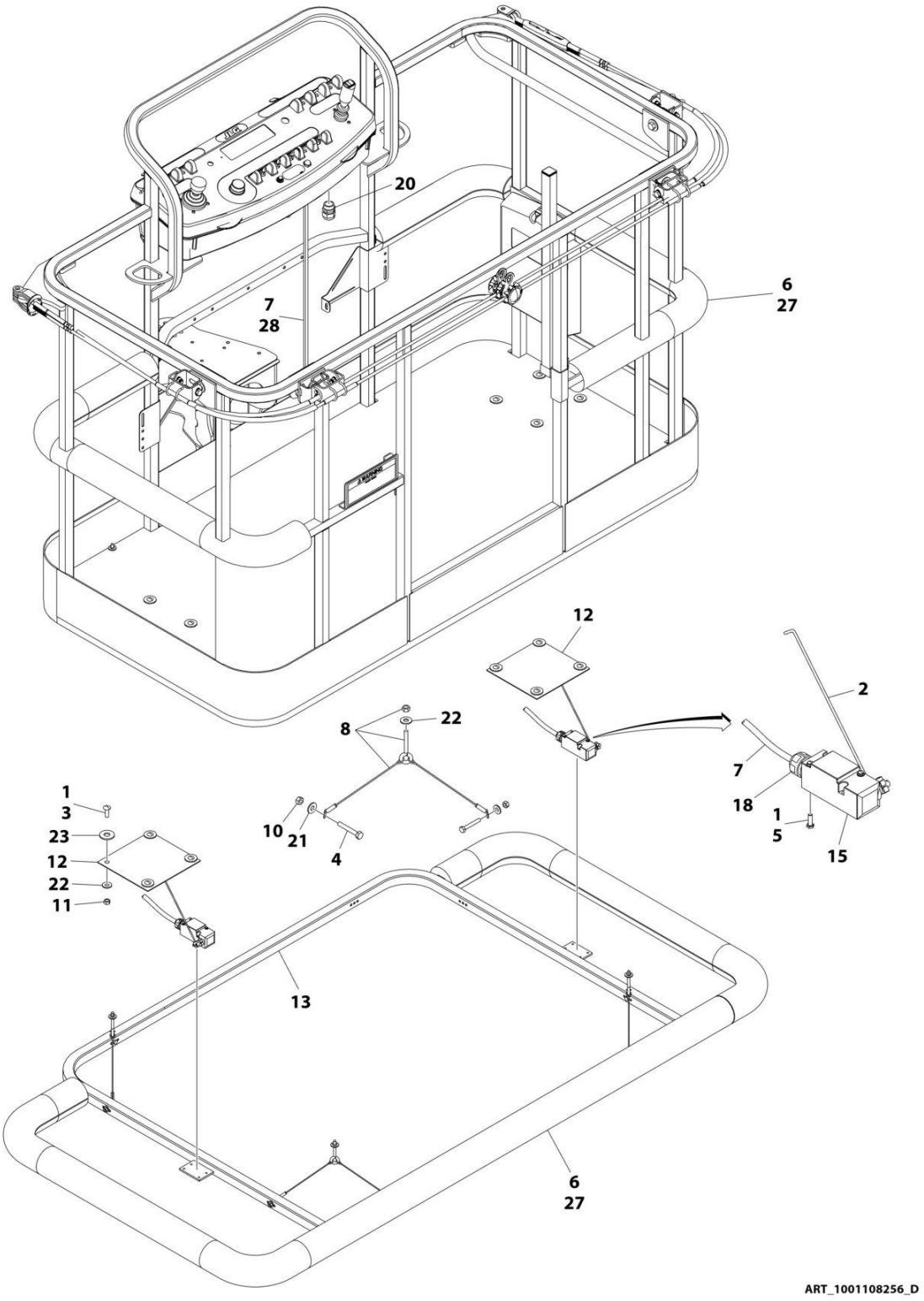


FIGURE 5-25. SOFT TOUCH SYSTEM INSTALLATION - 6FT/1.83M FALL ARREST PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108256	Ref	SOFT TOUCH INSTALLATION	D
1	0100011	AR	Compound, Locking	
2	0200048	2	Arm, Switch	
3	0630462	8	Bolt	
4	0641414	8	Bolt 1/4 x 1-3/4	
5	0731005	4	Bolt #10 x 5/8	
6	0940177	1	Bumper Kit (Includes Corners and Enough Straight Material for One Platform)	
6	0940092	8	Bumper (Corner)	
6	0940094	AR	Bumper (12ft Length)	
7	1060341	23 ft/7m	Cable, Soft Touch - 16/2	
8	1060903	4	Wire Rope and Eyebolt Assembly	
10	3311401	8	Nut 1/4	
11	3311501	8	Nut 5/16	
12	3575359	2	Plate, Switch Strike	
13	3641569	1	Rail, Soft Touch	
14	4240099	7	Tie-Strap (Not Shown)	
15	4360057	2	Switch, Limit	
18	4460049	2	Connector, Strain Relief	
19	4460234	7	Tie-Strap (Not Shown)	
20	4460425	1	Connector, Strain Relief	
21	4751400	8	Washer 1/4	
22	4751500	9	Washer 5/16	
23	4751800	8	Washer 1/2	
27	1001197017	AR	Strap, Cable Tie (Yellow)	
28	4460226	4	Socket	

FIGURE 5-26. SOFT TOUCH SYSTEM INSTALLATION - 8FT/2.4M PLATFORMS (OPTIONAL)

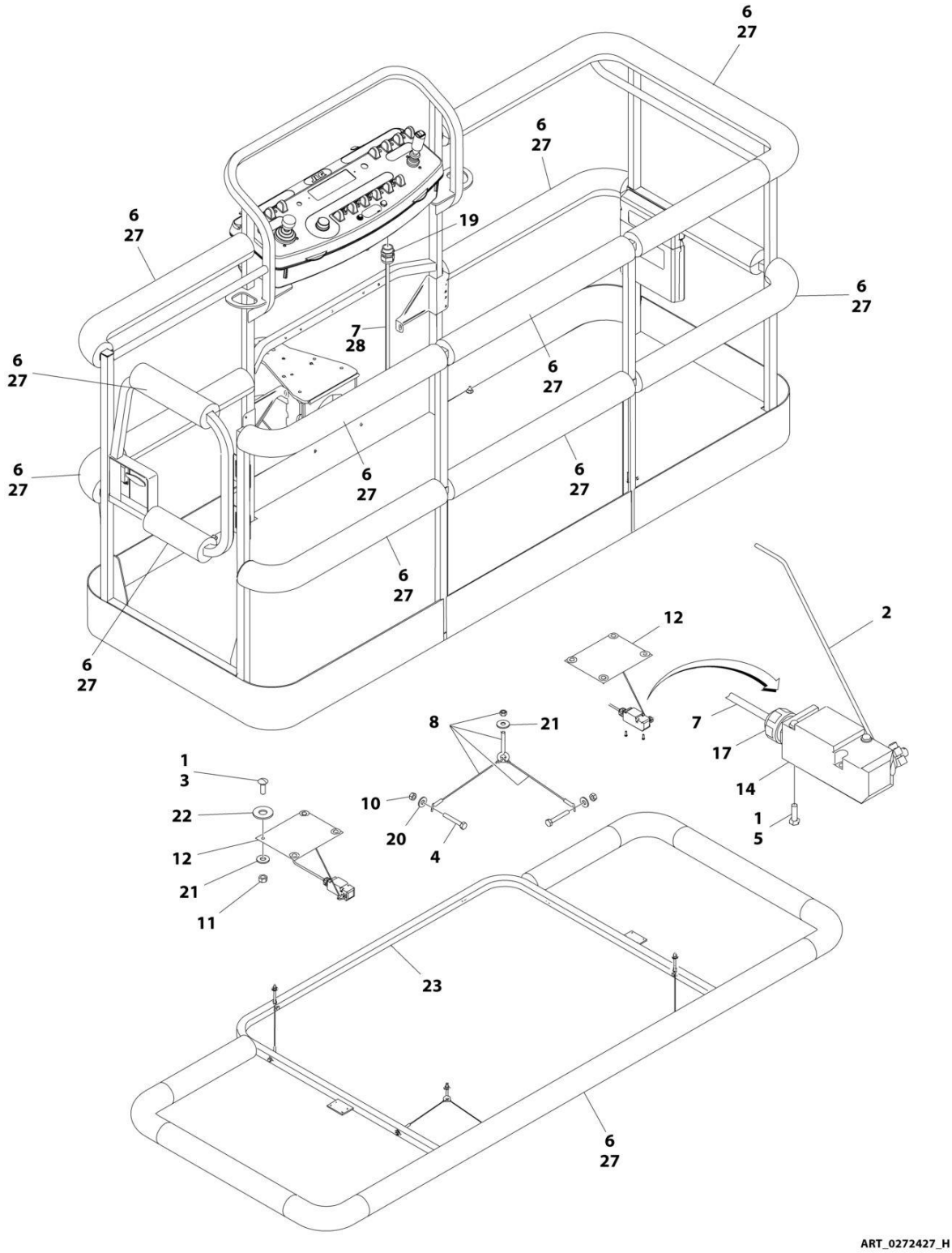


FIGURE 5-26. SOFT TOUCH SYSTEM INSTALLATION - 8FT/2.4M PLATFORMS (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272427	Ref	SOFT TOUCH INSTALLATION - 36IN X 8FT (91.5CM X 2.44M) PLATFORM	H
1	0100011	AR	Compound, Locking	
2	0200048	2	Arm, Switch	
3	0630462	8	Bolt	
4	0641414	8	Bolt 1/4 x 1-3/4	
5	0721005	4	Bolt #10 x 5/8	
6	0940103	1	Bumper Kit (Includes Corners and Enough Straight Material for One Platform)	
6	0940092	12	Bumper (Corner)	
6	0940094	AR	Bumper (12ft Length)	
7	1060341	23 ft/7m	Cable, Soft Touch - 16/2	
8	1060903	4	Wire Rope and Eyebolt Assembly	
10	3311401	8	Nut 1/4	
11	3311501	8	Nut 5/16	
12	3574091	2	Plate, Switch Strike	
13	4240099	7	Tie-Strap (Not Shown)	
14	4360057	2	Switch, Limit	
17	4460049	2	Connector, Strain Relief	
18	4460234	7	Tie-Strap (Not Shown)	
19	4460425	1	Connector, Strain Relief	
20	4751400	8	Washer 1/4	
21	4751500	12	Washer 5/16	
22	4751800	8	Washer 1/2	
23	4846673	1	Rail, Soft Touch	
27	1001197017	AR	Tie-Strap	
28	4460226	1	Socket	

FIGURE 5-27. SKYGLAZIER INSTALLATION (ANSI, AUSTRALIAN AND CSA SPECS)

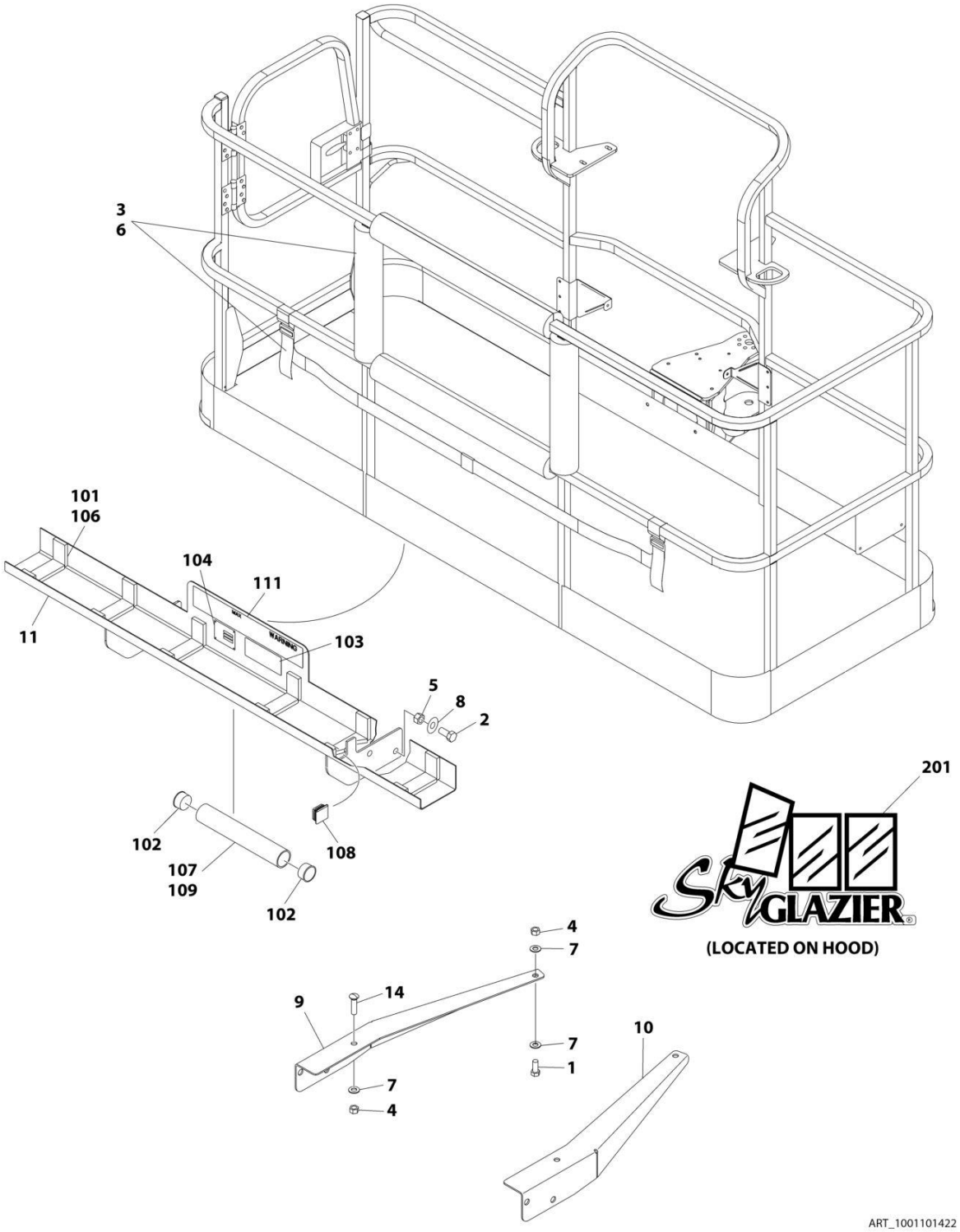


FIGURE 5-27. SKYGLAZIER INSTALLATION (ANSI, AUSTRALIAN AND CSA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101422	Ref	SKYGLAZIER INSTALLATION	C
1	0642012	2	Bolt 5/8 x 1-1/2	
2	0642212	4	Bolt 3/4 x 1-1/2	
3	2902212	1	Bumpers and Strap Kit	
3	0940102	1	Bumper Only	
3	4240149	1	Strap Only	
4	3312005	4	Nut 5/8	
5	3312205	4	Nut 3/4	
6	4420014	AR	Tape	
7	4712000	6	Washer 5/8	
8	4712200	8	Washer 3/4	
9	1001099366	1	Support	
10	1001099367	1	Support	
11	1001101421	1	Tray Assembly (See Items 101-111 for Breakdown)	
14	8310129	2	Bolt 3/4 x 2-1/2	
	1001101421	Ref	TRAY ASSEMBLY	F
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	1701509	1	Decal - Manual	
104	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
106	3340956	1	Pad Kit	
107	3460334	1	Tube	
108	3520071	2	Plug	
109	4420066	AR	Tape, Double Sided	
111	1001163131	2	Decal - Glazier Capacity	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-28. SKYGLAZIER INSTALLATION (BRAZIL SPECS)

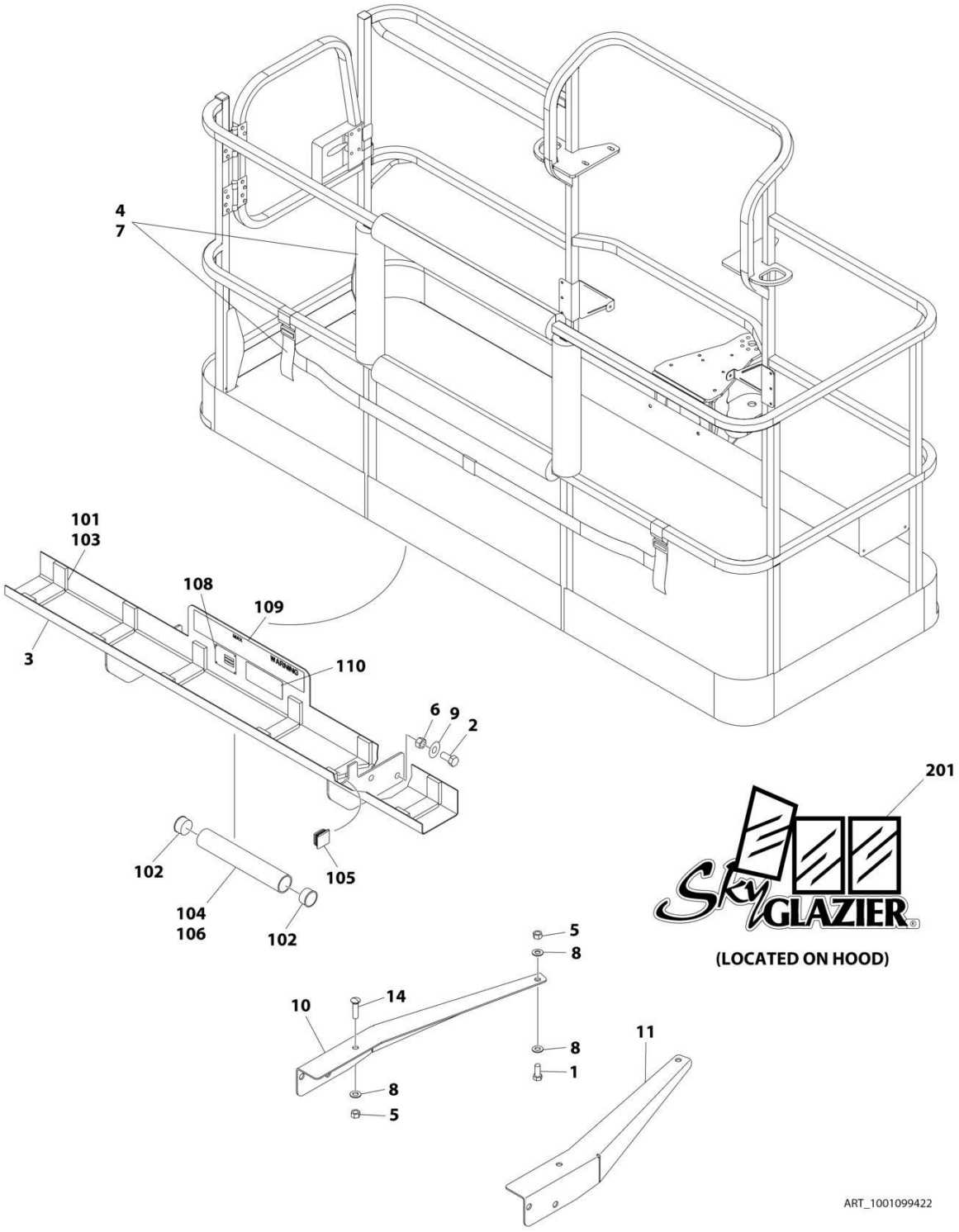


FIGURE 5-28. SKYGLAZIER INSTALLATION (BRAZIL SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099422	Ref	SKYGLAZIER INSTALLATION	C
1	0642012	2	Bolt 5/8 x 1-1/2	
2	0642212	4	Bolt 3/4 x 1-1/2	
3	0272951	1	Tray Assembly (See Items 101-110 for Breakdown)	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	1001099366	1	Support	
11	1001099367	1	Support	
14	8310129	2	Bolt 3/4 x 2-1/2	
	0272951	Ref	TRAY ASSEMBLY	F
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163297	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-29. SKYGLAZIER INSTALLATION (DANISH SPECS)

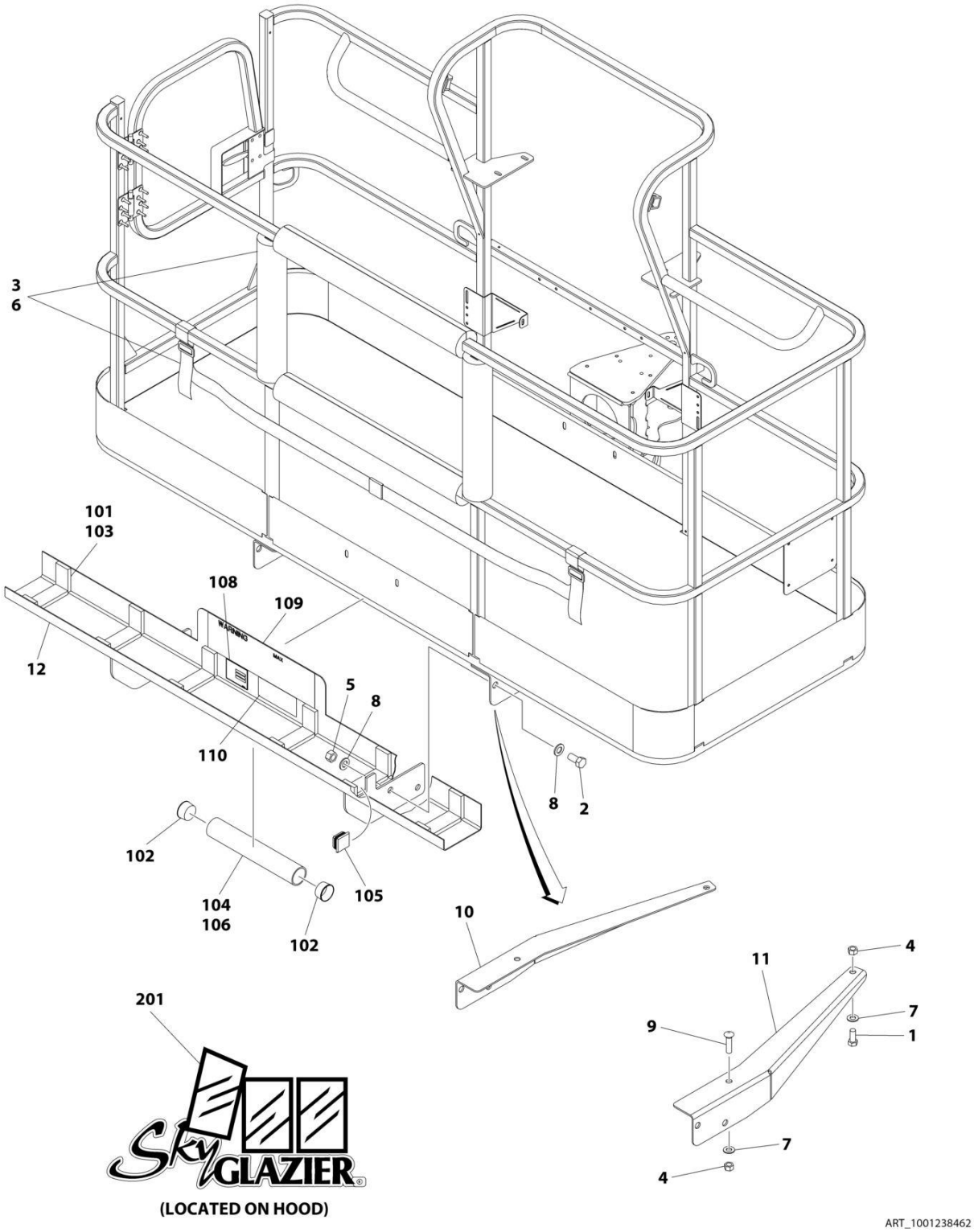


FIGURE 5-29. SKYGLAZIER INSTALLATION (DANISH SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238462	Ref	SKYGLAZIER INSTALLATION	A
1	0642012	2	Bolt 5/8 x 1-1/2	
2	0642212	4	Bolt 3/4 x 1-1/2	
3	2902212	1	Bumpers and Strap Kit	
3	0940102	1	Bumper Only	
3	4240149	1	Strap Only	
4	3312005	4	Nut 5/8	
5	3312205	4	Nut 3/4	
6	4420014	AR	Tape	
7	4712000	4	Washer 5/8	
8	4712200	8	Washer 3/4	
9	8310129	2	Bolt 5/8 x 2-1/2	
10	1001099366	1	Support	
11	1001099367	1	Support	
12	1001238423	1	Tray Assembly (See Items 101-110 for Breakdown)	
	1001238423	Ref	TRAY ASSEMBLY	B
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001237705	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-30. SKYGLAZIER INSTALLATION (FRENCH SPECS)

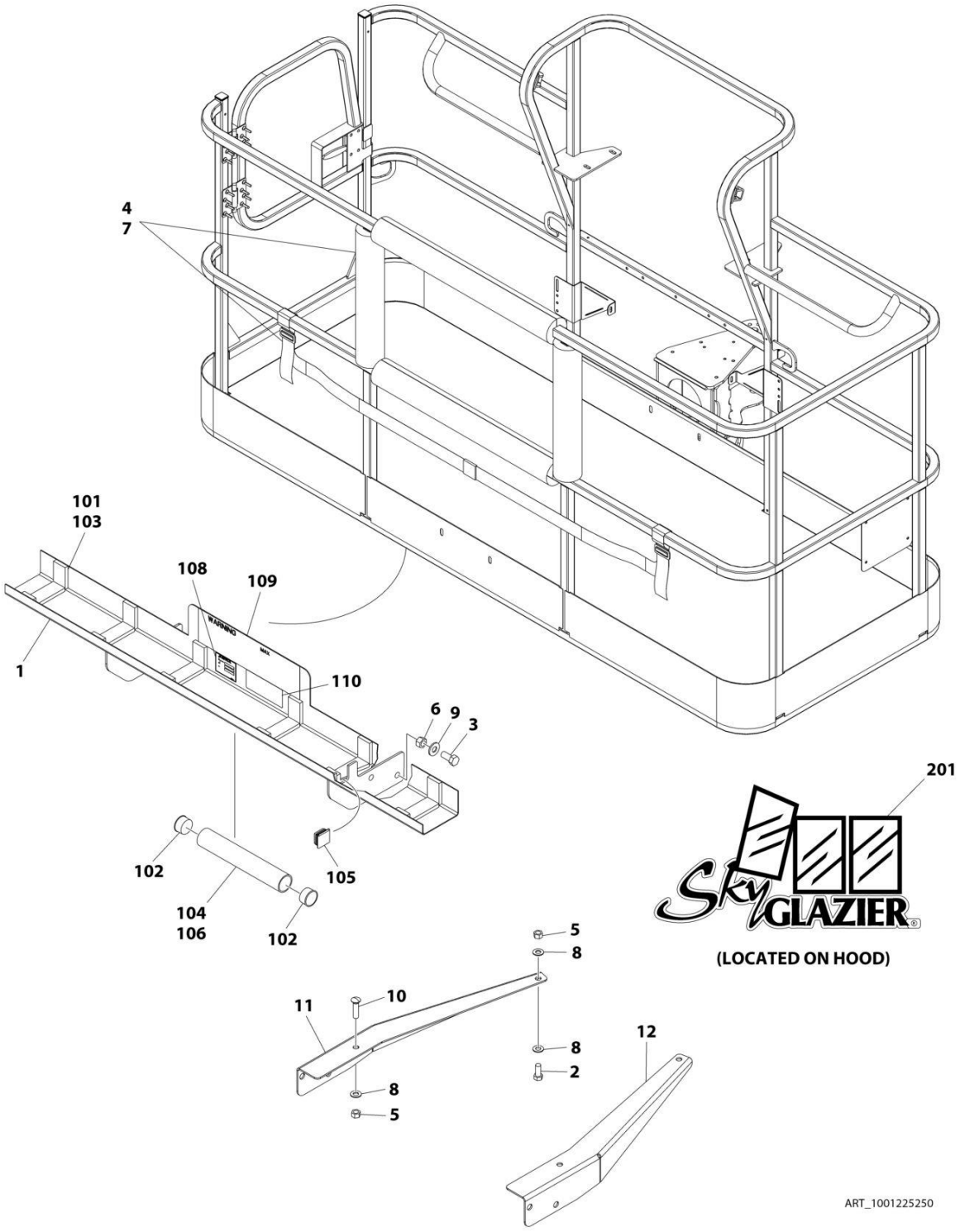


FIGURE 5-30. SKYGLAZIER INSTALLATION (FRENCH SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225250	Ref	SKYGLAZIER INSTALLATION	A
1	0272949	1	Tray Assembly (See Items 101-110 for Breakdown)	
2	0642012	2	Bolt 5/8 x 1-1/2	
3	0642212	4	Bolt 3/4 x 1-1/2	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	8310129	2	Bolt 5/8 x 2-1/2	
11	1001099366	1	Support	
12	1001099367	1	Support	
	0272949	Ref	TRAY ASSEMBLY	E
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163293	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-31. SKYGLAZIER INSTALLATION (GERMAN SPECS)

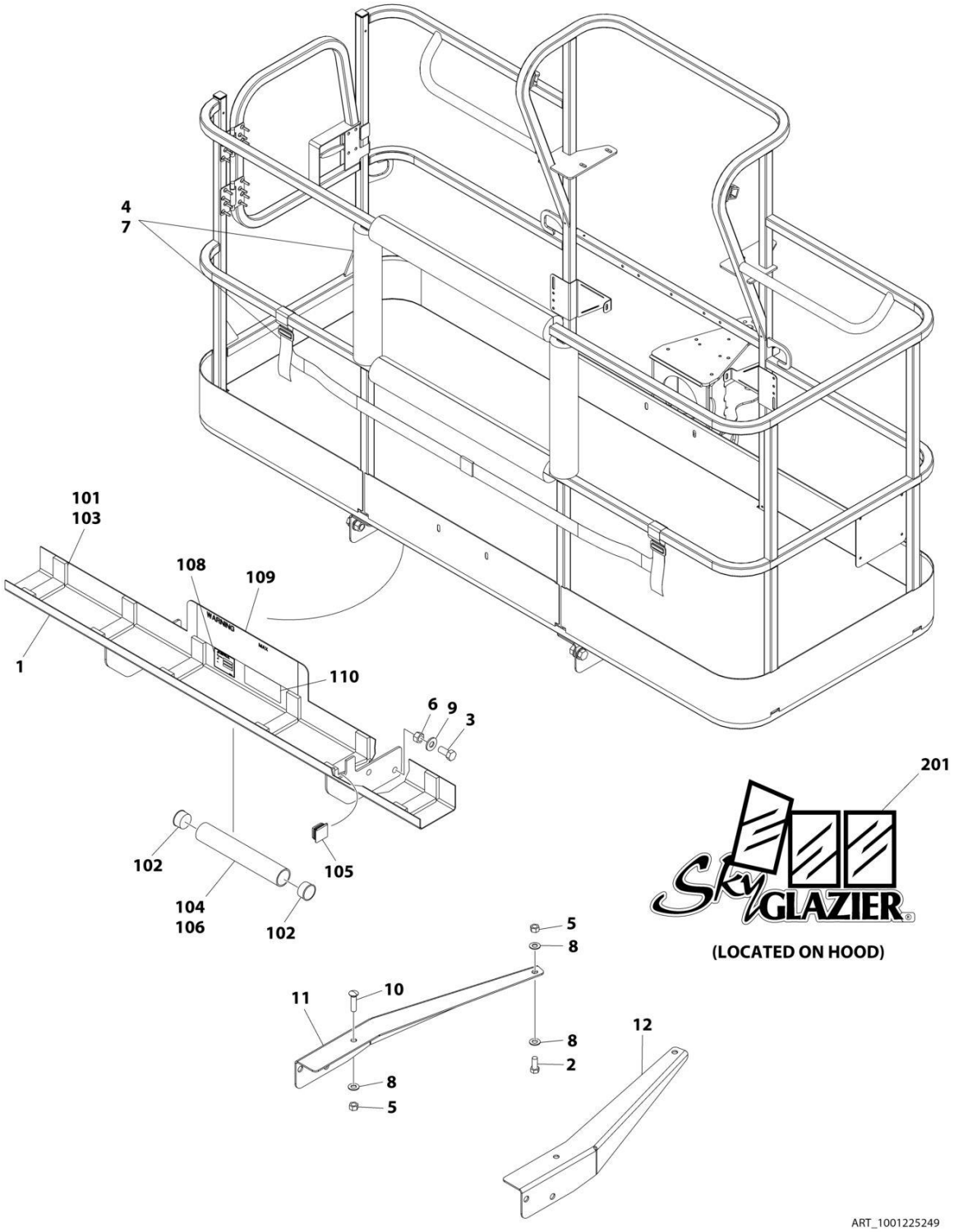


FIGURE 5-31. SKYGLAZIER INSTALLATION (GERMAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225249	Ref	SKYGLAZIER INSTALLATION	A
1	0272950	1	Tray Assembly (See Items 101-110 for Breakdown)	
2	0642012	2	Bolt 5/8 x 1-1/2	
3	0642212	4	Bolt 3/4 x 1-1/2	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	8310129	2	Bolt 5/8 x 2-1/2	
11	1001099366	1	Support	
12	1001099367	1	Support	
	0272950	Ref	TRAY ASSEMBLY	E
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163298	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-32. SKYGLAZIER INSTALLATION (ITALIAN SPECS)

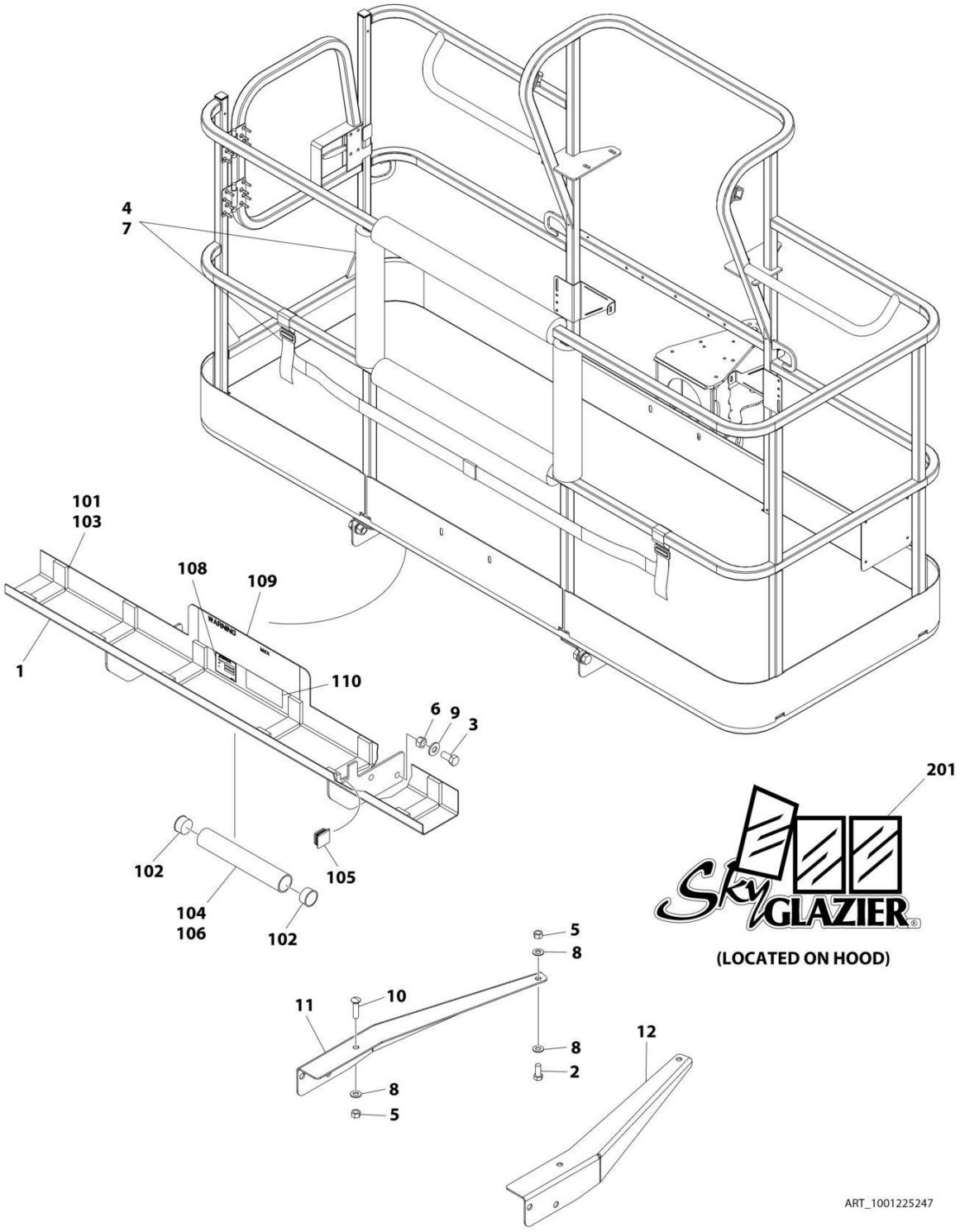


FIGURE 5-32. SKYGLAZIER INSTALLATION (ITALIAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225247	Ref	SKYGLAZIER INSTALLATION	A
1	0272952	1	Tray Assembly (See Items 101-110 for Breakdown)	
2	0642012	2	Bolt 5/8 x 1-1/2	
3	0642212	4	Bolt 3/4 x 1-1/2	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	8310129	2	Bolt 5/8 x 2-1/2	
11	1001099366	1	Support	
12	1001099367	1	Support	
	0272952	Ref	TRAY ASSEMBLY	E
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163287	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-33. SKYGLAZIER INSTALLATION (LATIN AMERICAN SPECS)

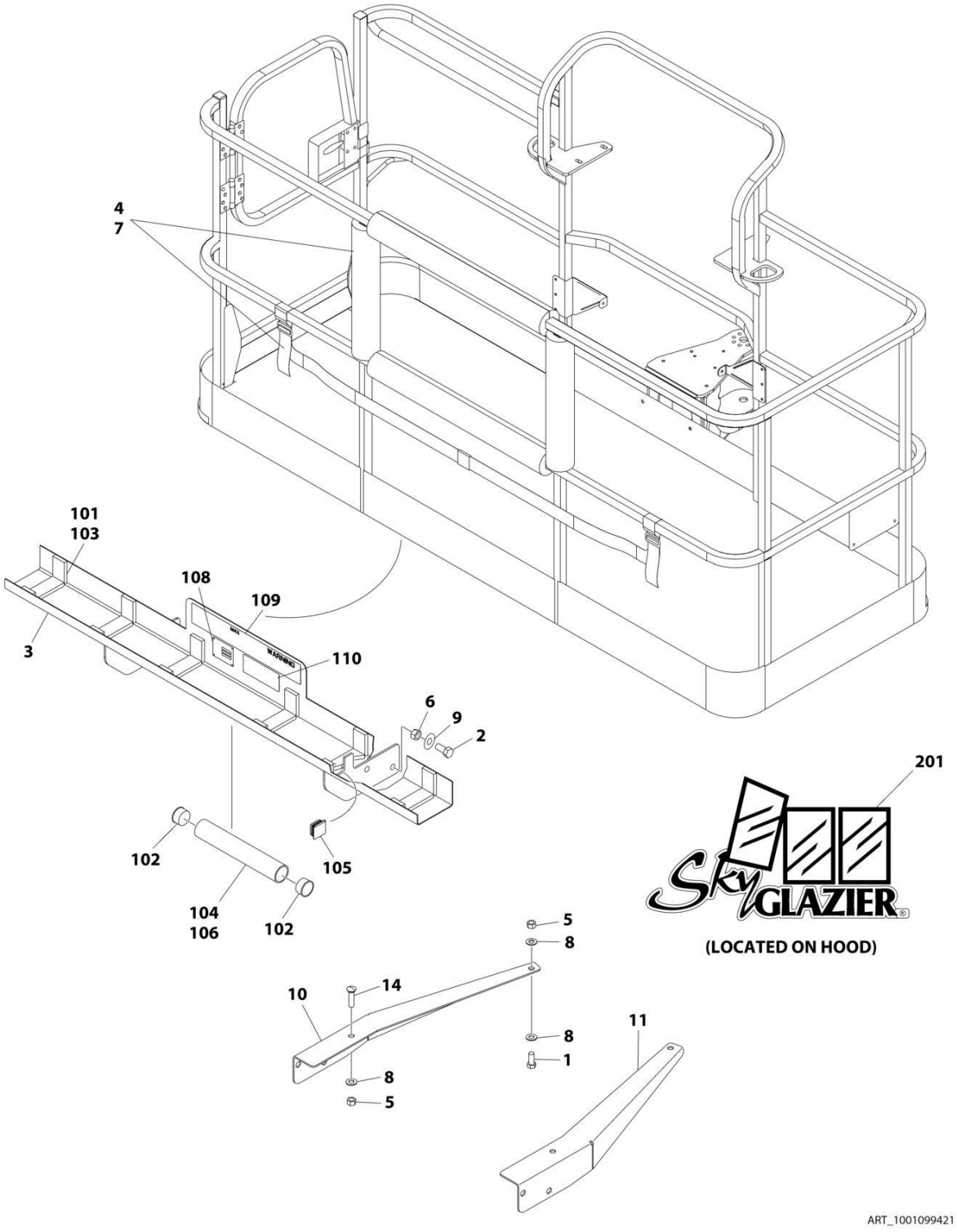


FIGURE 5-33. SKYGLAZIER INSTALLATION (LATIN AMERICAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099421	Ref	SKYGLAZIER INSTALLATION	C
1	0642012	2	Bolt 5/8 x 1-1/2	
2	0642212	4	Bolt 3/4 x 1-1/2	
3	0272948	1	Tray Assembly (See Items 101-110 for Breakdown)	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	1001099366	1	Support	
11	1001099367	1	Support	
14	8310129	2	Bolt 3/4 x 2-1/2	
	0272948	Ref	TRAY ASSEMBLY	F
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163296	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-34. SKYGLAZIER INSTALLATION (PORTUGUESE SPECS)

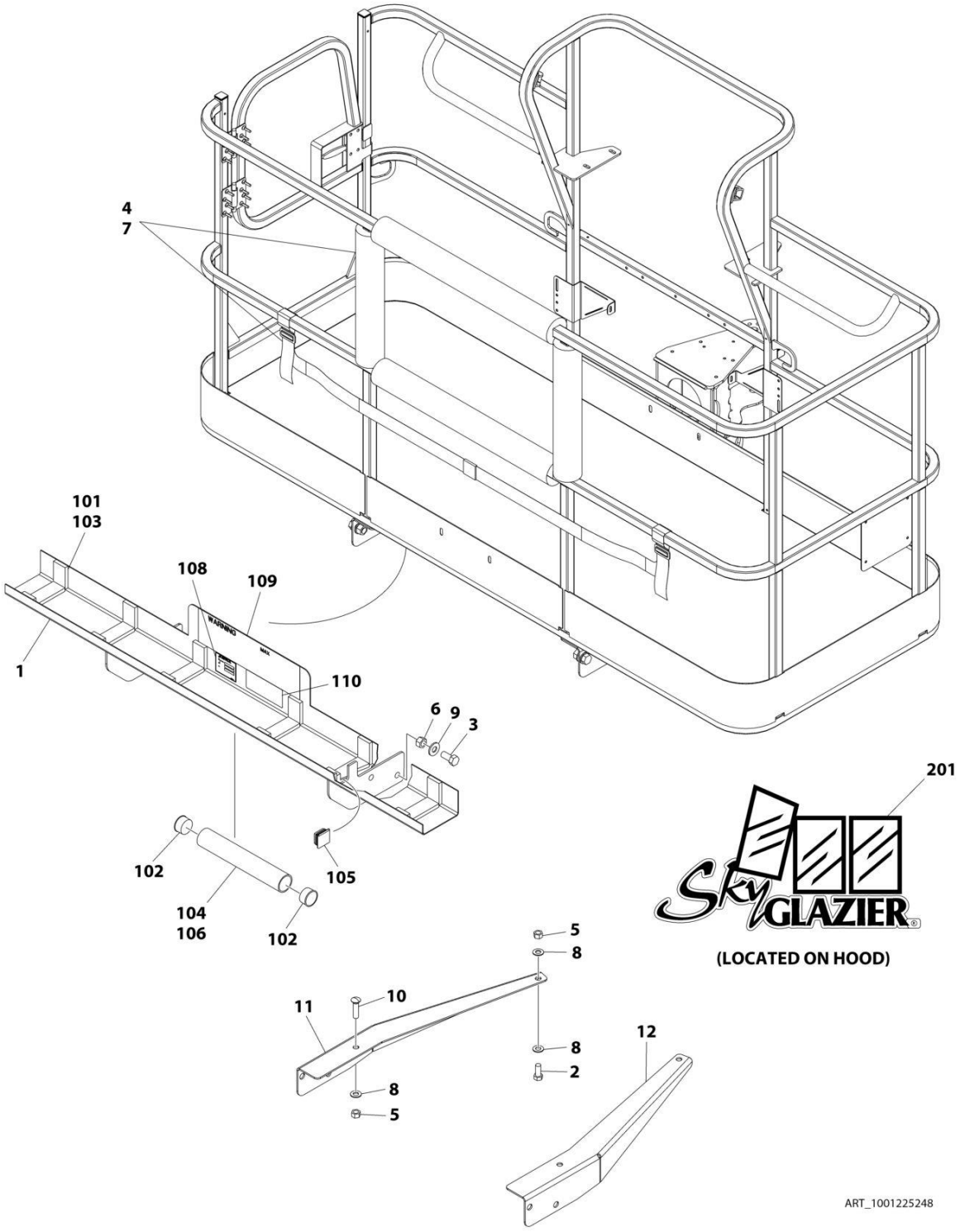


FIGURE 5-34. SKYGLAZIER INSTALLATION (PORTUGUESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225248	Ref	SKYGLAZIER INSTALLATION	A
1	0273406	1	Tray Assembly (See Items 101-110 for Breakdown)	
2	0642012	2	Bolt 5/8 x 1-1/2	
3	0642212	4	Bolt 3/4 x 1-1/2	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	8310129	2	Bolt 5/8 x 2-1/2	
11	1001099366	1	Support	
12	1001099367	1	Support	
	0273406	Ref	TRAY ASSEMBLY	E
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163289	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-35. SKYGLAZIER INSTALLATION (SPANISH SPECS)

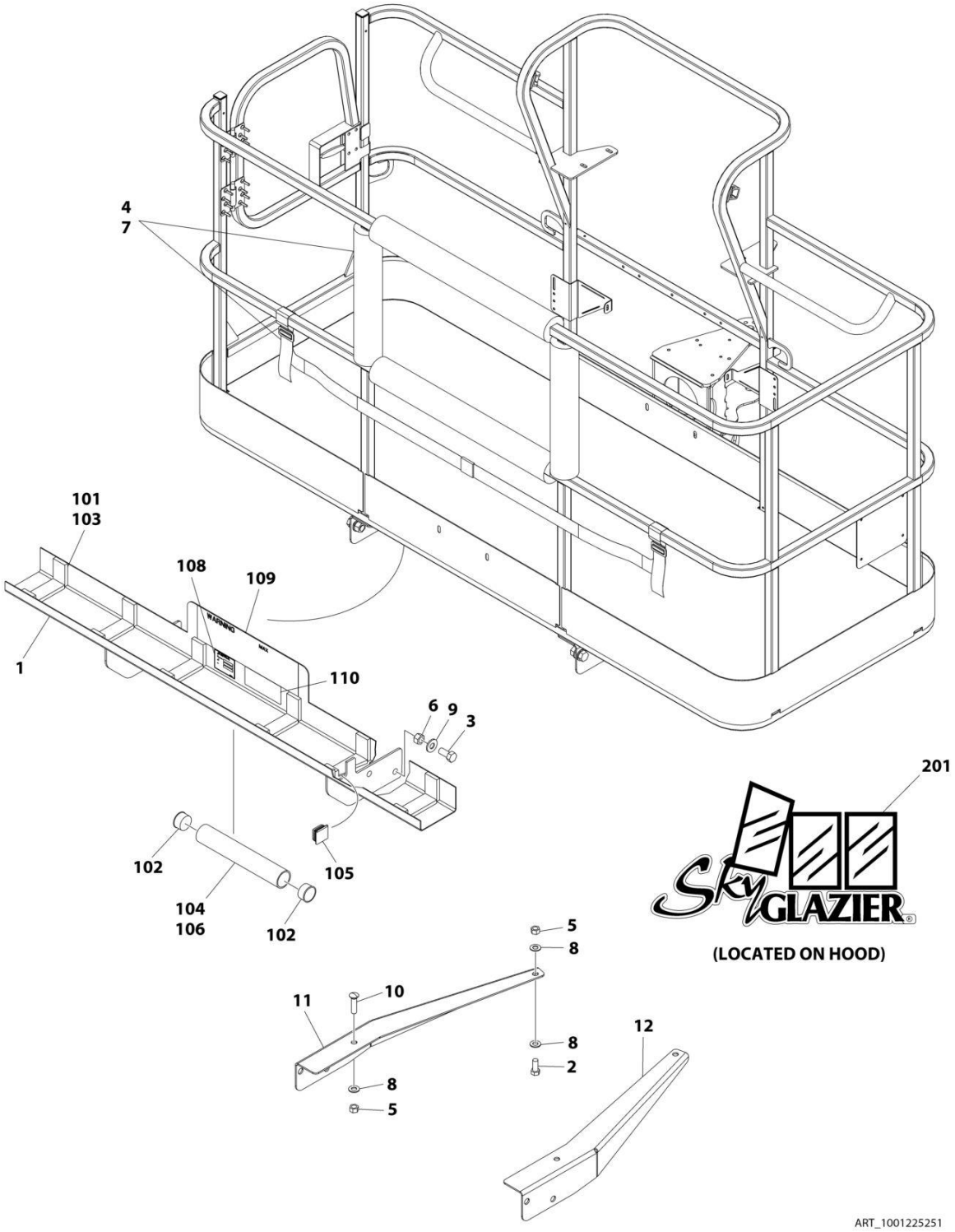


FIGURE 5-35. SKYGLAZIER INSTALLATION (SPANISH SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225251	Ref	SKYGLAZIER INSTALLATION	A
1	0273405	1	Tray Assembly (See Items 101-110 for Breakdown)	
2	0642012	2	Bolt 5/8 x 1-1/2	
3	0642212	4	Bolt 3/4 x 1-1/2	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 5/8	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	8310129	2	Bolt 5/8 x 2-1/2	
11	1001099366	1	Support	
12	1001099367	1	Support	
	0273405	Ref	TRAY ASSEMBLY	E
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163288	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-36. SKYGLAZIER INSTALLATION (SWEDISH SPECS)

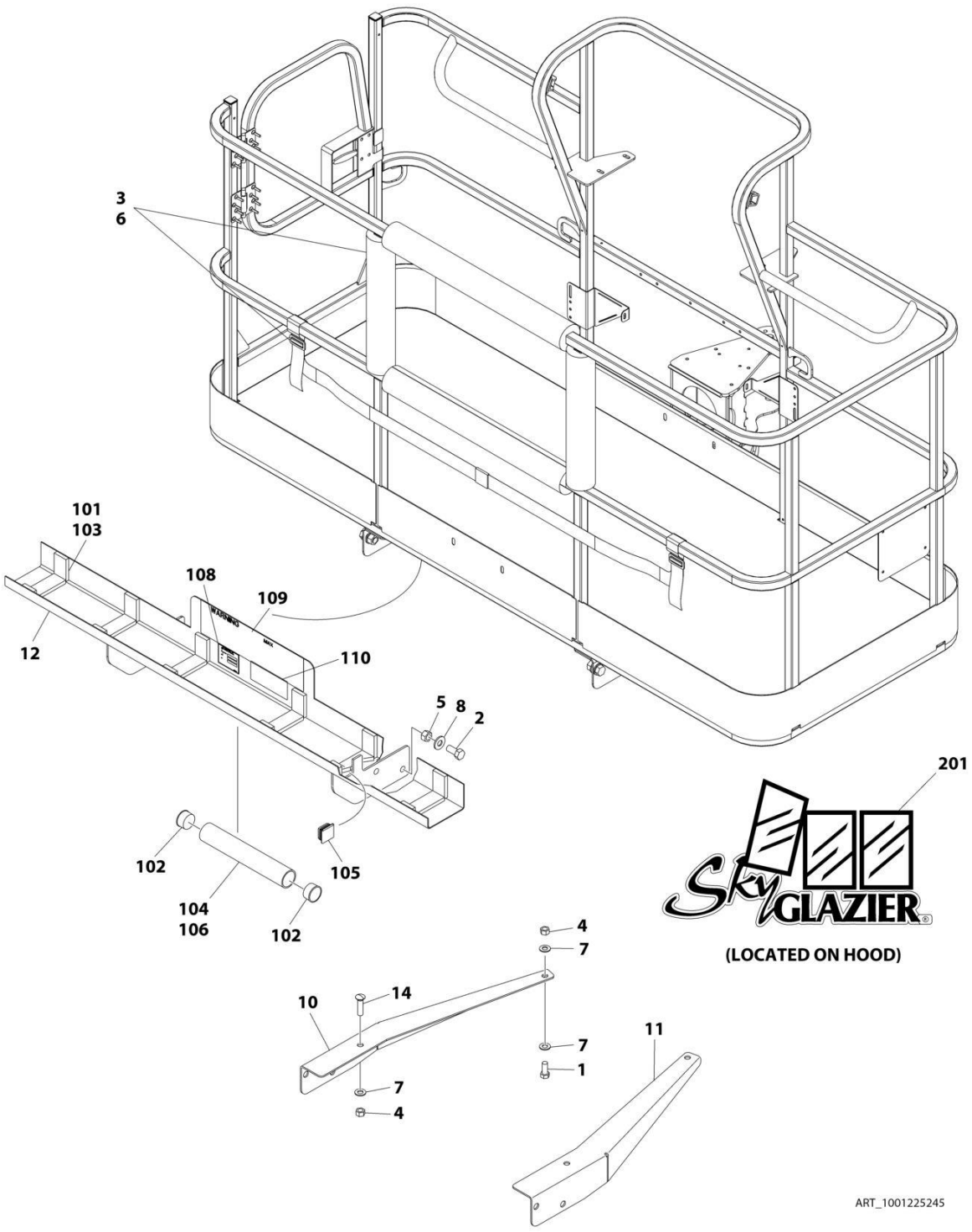


FIGURE 5-36. SKYGLAZIER INSTALLATION (SWEDISH SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225245	Ref	SKYGLAZIER INSTALLATION	B
1	0642012	2	Bolt 5/8 x 1-1/2	
2	0642212	4	Bolt 3/4 x 1-1/2	
3	2902212	1	Bumpers and Strap Kit	
3	0940102	1	Bumper Only	
3	4240149	1	Strap Only	
4	3312005	4	Nut 5/8	
5	3312205	4	Nut 3/4	
6	4420014	AR	Tape	
7	4712000	6	Washer 5/8	
8	4712200	8	Washer 3/4	
9	8310129	2	Bolt 5/8 x 2-1/2	
10	1001099366	1	Support	
11	1001099367	1	Support	
12	1001115603	1	Tray Assembly (See Items 101-110 for Breakdown)	
	1001115603	Ref	TRAY ASSEMBLY	D
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163292	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-37. SKYGLAZIER INSTALLATION (UK SPECS)

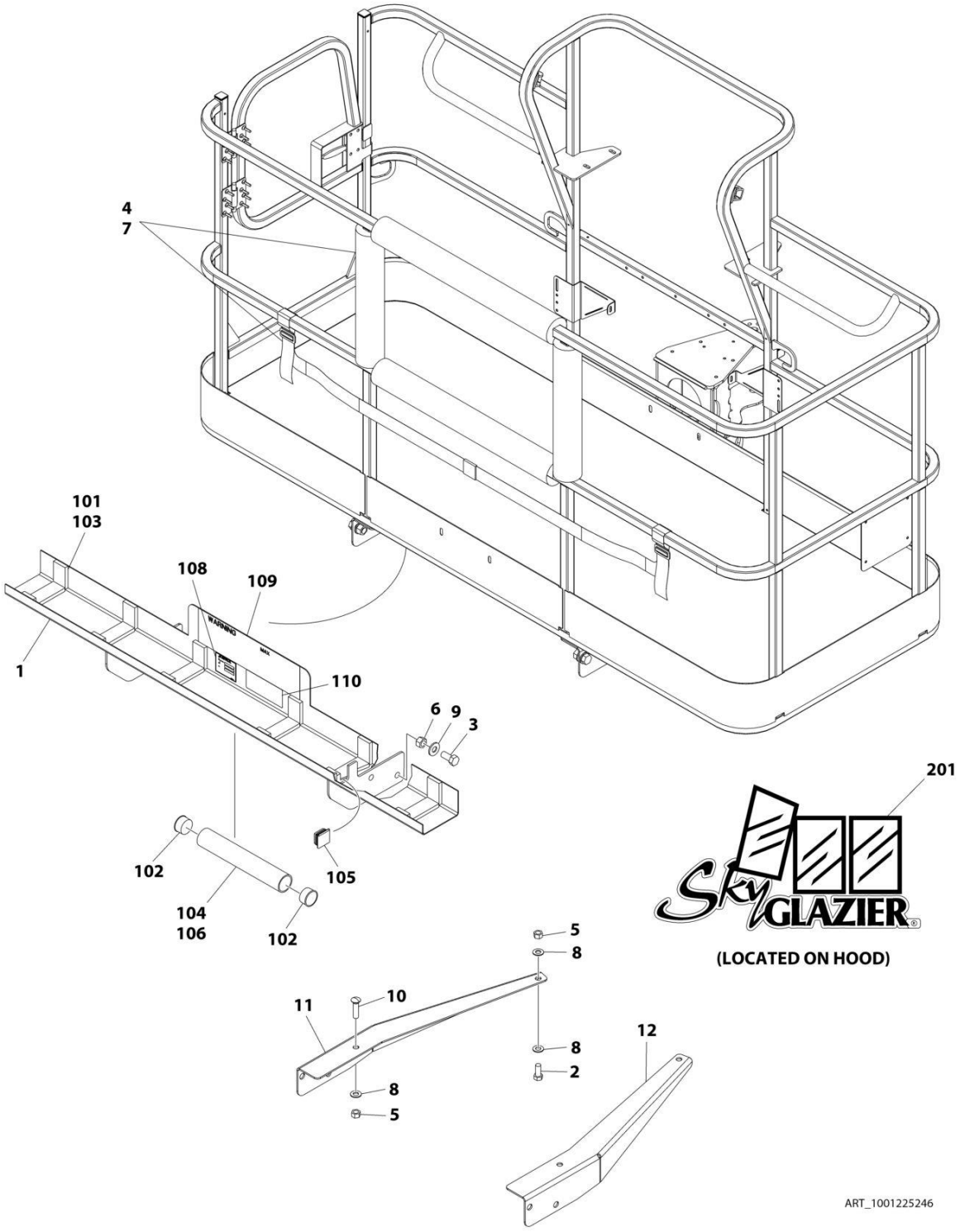


FIGURE 5-37. SKYGLAZIER INSTALLATION (UK SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225246	Ref	SKYGLAZIER INSTALLATION	A
1	0273404	1	Tray Assembly (See Items 101-110 for Breakdown)	
2	0642012	2	Bolt 5/8 x 1-1/2	
3	0642212	4	Bolt 3/4 x 1-1/2	
4	2902212	1	Bumpers and Strap Kit	
4	0940102	1	Bumper Only	
4	4240149	1	Strap Only	
5	3312005	4	Nut 3/4	
6	3312205	4	Nut 3/4	
7	4420014	AR	Tape	
8	4712000	6	Washer 5/8	
9	4712200	8	Washer 3/4	
10	8310129	2	Bolt 5/8 x 2-1/2	
11	1001099366	1	Support	
12	1001099367	1	Support	
	0273404	Ref	TRAY ASSEMBLY	F
101	0100081	AR	Adhesive	
102	1120555	2	Cap, Tube	
103	3340956	1	Pad Kit	
104	3460334	1	Tube	
105	3520071	2	Plug	
106	4420066	AR	Tape, Double Sided	
108	See Note	NSS	Nameplate - Serial Number (Note: Not Available for Purchase)	
109	1001163295	2	Decal - Glazier Capacity	
110	1701509	1	Decal - Manual	
	0272418	Ref	SKYGLAZIER DECAL INSTALLATION	4
201	1705358	2	Decal - SkyGlazier	

FIGURE 5-38. SKYCUTTER INSTALLATION

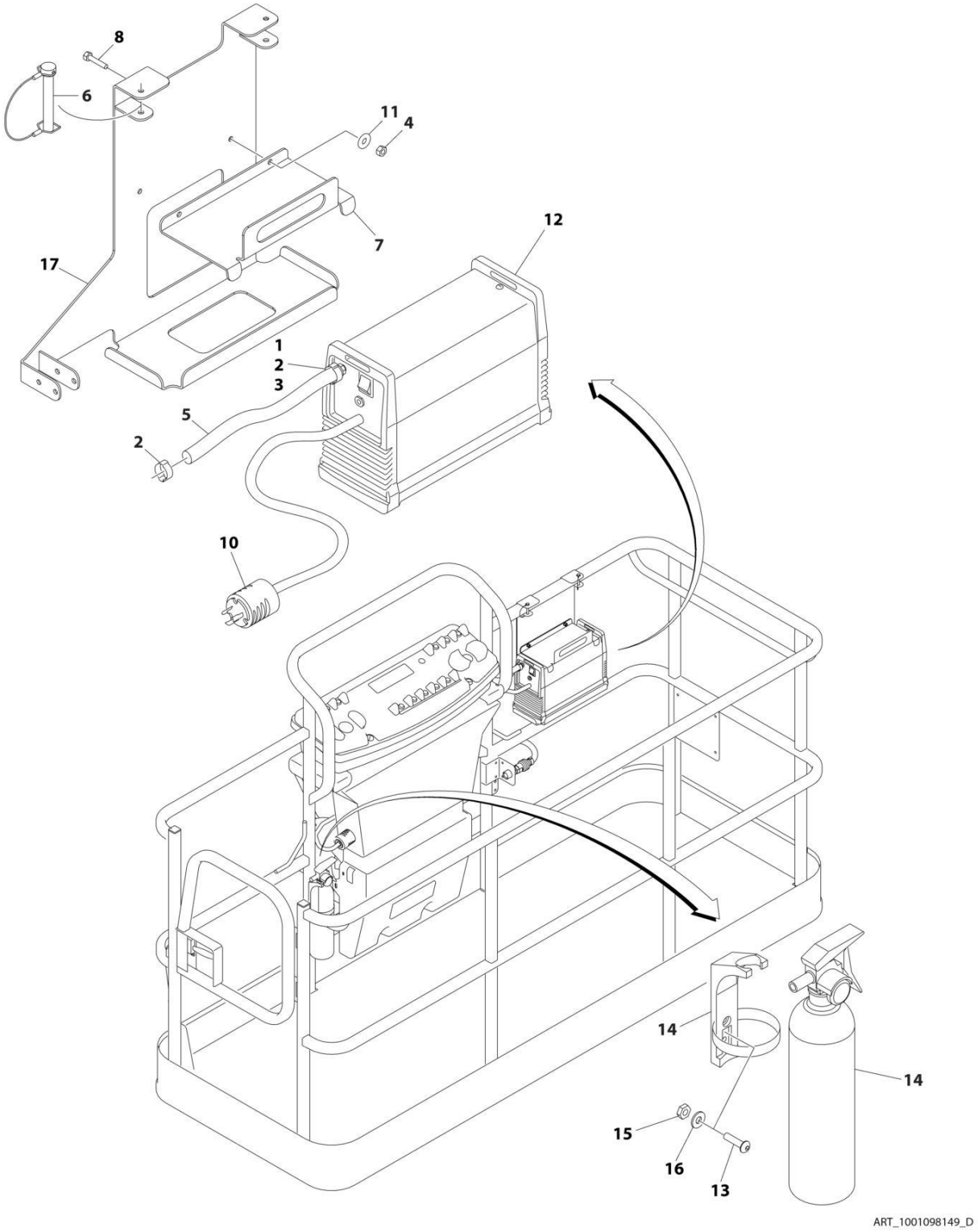
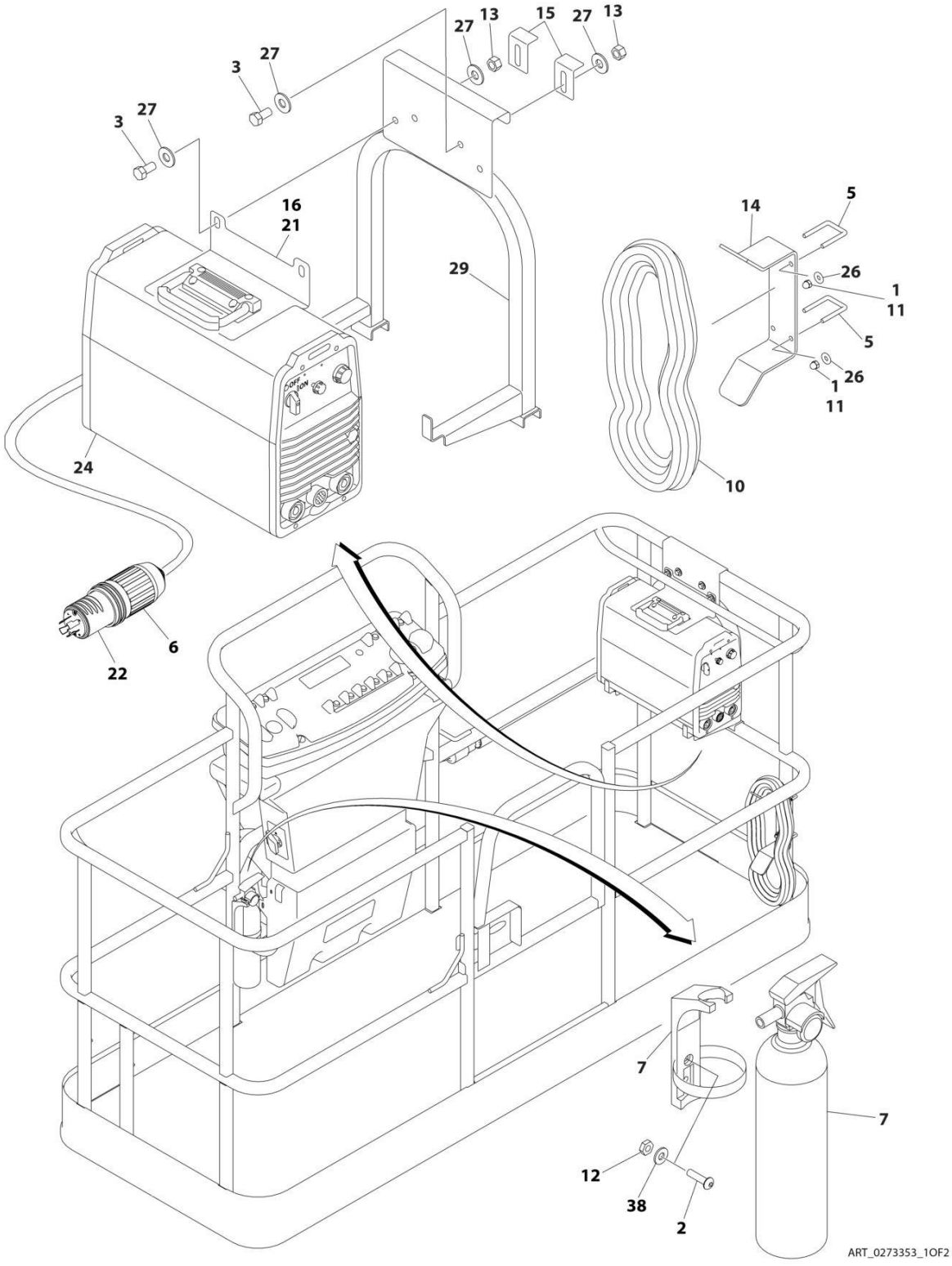
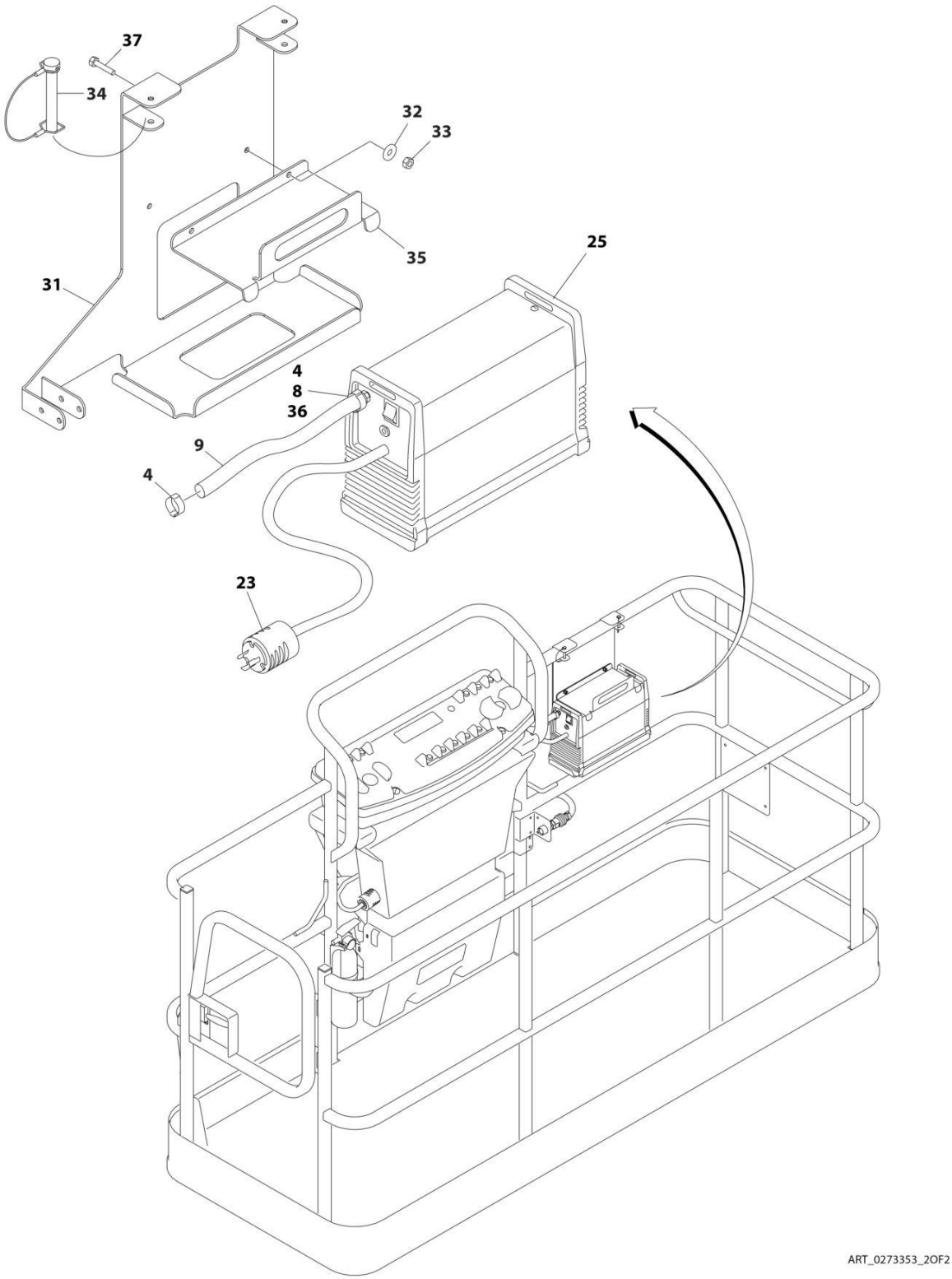


FIGURE 5-38. SKYCUTTER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098149	Ref	SKYCUTTER INSTALLATION	D
		Ref	Note: When replacing platform on machines with SkyCutter option, new bracket p/n 1001145405 must be purchased to accommodate SkyCutter components.	
1	0100020	AR	Sealant	
2	1320177	2	Clamp, Hose	
3	2180832	1	Fitting, NPT/Barbed	
4	3290605	2	Nut M6	
5	2720160	3 ft /.9m	Hose	
6	3421453	3	Pin	
7	3576799	1	Plate, Hold-Down	
8	4010608	2	Screw M6 x 16	
10	4460971	1	Plug, Twistlock	
11	4811700	2	Washer M6	
12	1001098012	1	Plasma Cutter Assembly (See Separate Breakdown in this Section)	
13	0630518	2	Screw #10 x 3/4	
14	2030010	1	Extinguisher, Fire	
15	3311005	2	Nut #10	
16	4751000	2	Washer #10	
17	1001145405	1	Support	

FIGURE 5-39. SKYWELDER/SKYCUTTER COMBO INSTALLATION (60HZ)




37
34
32
33
35
25
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4
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36
9
4
23
ART_0273353_2OF2

FIGURE 5-39. SKYWELDER/SKYCUTTER COMBO INSTALLATION (60HZ)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273353	Ref	SKYWELDER/SKYCUTTER COMBO INSTALLATION (60HZ)	G
1	0100011	AR	Compound, Locking	
2	0630518	2	Screw #10 x 3/4	
3	0641606	4	Bolt 3/8 x 3/4	
4	1320177	2	Clamp	
5	1320302	2	Clamp	
6	1671093	1	Cover, Plug	
7	2030010	1	Extinguisher, Fire	
8	2180832	1	Fitting, Barbed/NPT	
9	2720160	4.5 ft /1.37m	Hose	
10	2902217	1	Weld Leads Kit	
11	3300151	4	Nut 1/4	
12	3311005	2	Nut #10	
13	3311605	4	Nut 3/8	
14	3573400	1	Bracket	
15	3577121	2	Angle	
16	3573642	1	Plate	
20	4240099	AR	Tie-Strap (Not Shown)	
21	4420037	2.36 ft /.71m	Tape	
22	4460962	1	Plug, Twist Lock	
23	4460971	1	Plug, Twist Lock	
24	4530028	1	Welder Assembly (See Separate Breakdown in this section)	
25	1001098012	1	Plasma Cutter Assembly (See Separate Breakdown in this Section)	
26	4751400	4	Washer 1/4	
27	4751600	8	Washer 3/8	
29	4846627	1	Support	
31	1001145405	1	Bracket	
32	4811700	2	Washer M6	
33	3290605	2	Nut M6	
34	3421453	3	Pin	
35	3576799	1	Plate, Hold-Down	
36	0100020	1	Sealant	
37	4010608	2	Screw M6 x 16	
38	4751000	2	Washer #10	

FIGURE 5-40. PLASMA CUTTER ASSEMBLY

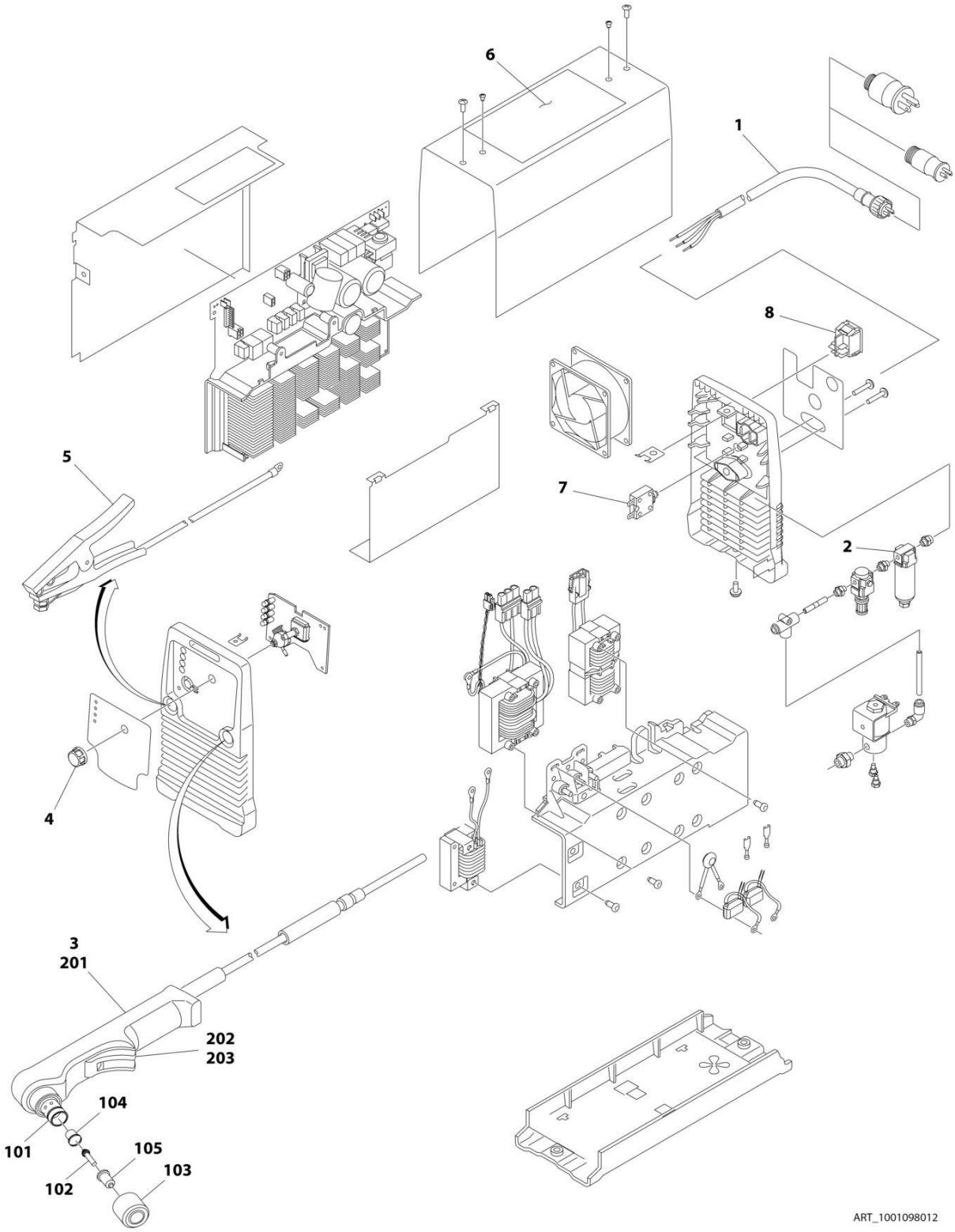


FIGURE 5-40. PLASMA CUTTER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001098012	Ref	PLASMA CUTTER ASSEMBLY	A
		Ref	Note: For Other Components, contact your Miller Welder Dealer.	
1	70001424	1	Cable, Power	
1	70001425	1	Decal - Voltage Warning	
2	70001427	1	Filter, Regulator	
3	70001428	1	Torch Assembly (See Items 101-203 for Breakdown)	
4	7024471	1	Knob	
5	70001429	1	Clamp with Cable	
6	70001430	1	Decal - Caution	
7	70001431	1	Breaker, Circuit	
8	70001432	1	Switch, Rocker	
	70001428	Ref	TORCH ASSEMBLY	
101	7024530	1	O-Ring	
102	7024531	1	Electrode	
103	7024532	1	Cup, Retaining	
104	7024533	1	Swirl Ring	
105	7024534	1	Tip	
201	7024535	1	Handle, Torch	
202	7024536	1	Switch	
203	7024537	1	Trigger	

FIGURE 5-41. SKYWELDER INSTALLATION (50HZ)

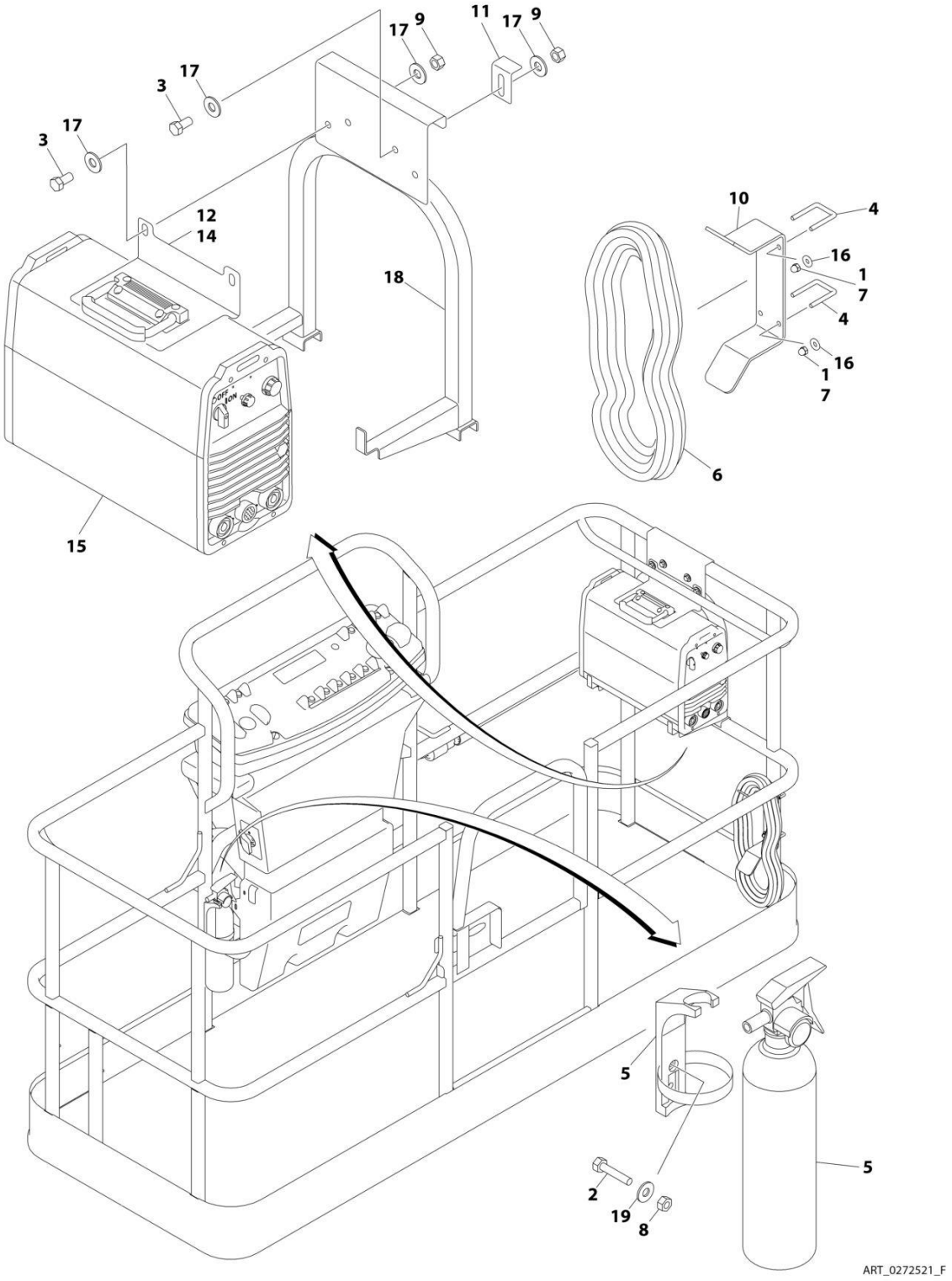


FIGURE 5-41. SKYWELDER INSTALLATION (50HZ)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272521	Ref	SKYWELDER INSTALLATION	F
1	0100011	AR	Compound, Locking	
2	0630518	2	Screw #10 x 3/4	
3	0641606	4	Bolt 3/8 x 3/4	
4	1320302	2	U-Clamp	
5	2030010	1	Extinguisher, Fire	
6	2902217	1	Weld Leads Kit	
7	3300151	4	Nut 1/4	
8	3311005	2	Nut #10	
9	3311605	4	Nut 3/8	
10	3573400	1	Bracket	
11	3577121	2	Angle	
12	3573642	1	Plate	
13	4240099	AR	Tie-Strap (Not Shown)	
14	4420037	AR	Tape	
15	4530028	1	Welder Assembly (See Separate Breakdown in this Section)	
16	4751400	4	Washer 1/4	
17	4751600	8	Washer 3/8	
18	4846627	1	Support	
19	4751000	2	Washer #10	

FIGURE 5-42. SKYWELDER INSTALLATION (60HZ)

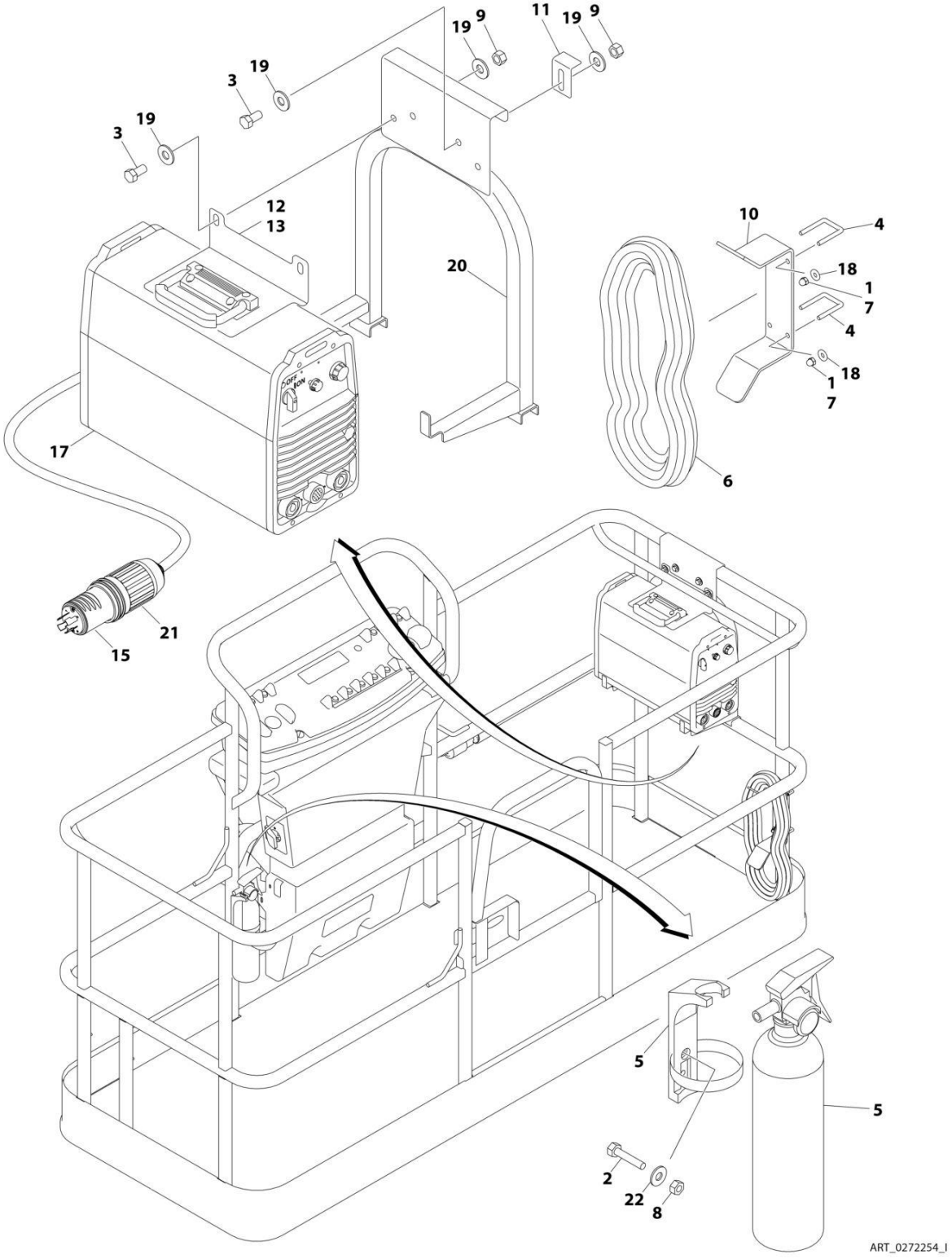


FIGURE 5-42. SKYWELDER INSTALLATION (60HZ)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272254	Ref	SKYWELDER INSTALLATION	I
1	0100011	AR	Compound, Locking	
2	0630518	2	Screw #10 x 3/4	
3	0641606	4	Bolt 3/8 x 3/4	
4	1320302	2	U-Clamp	
5	2030010	1	Extinguisher, Fire	
6	2902217	1	Weld Leads Kit	
7	3300151	4	Nut 1/4	
8	3311005	2	Nut #10	
9	3311605	4	Nut 3/8	
10	3573400	1	Bracket	
11	3577121	2	Angle	
12	3573642	1	Plate	
13	4420037	AR	Tape	
14	4240099	AR	Tie-Strap (Not Shown)	
15	4460962	1	Plug, Male Twistlock	
17	4530028	1	Welder Assembly (See Separate Breakdown in this Section)	
18	4751400	4	Washer 1/4	
19	4751600	8	Washer 3/8	
20	4846627	1	Support	
21	1671093	1	Cover, Plug	
22	4751000	2	Washer #10	

FIGURE 5-43. SKYWELDER PREP PACKAGE (60HZ)

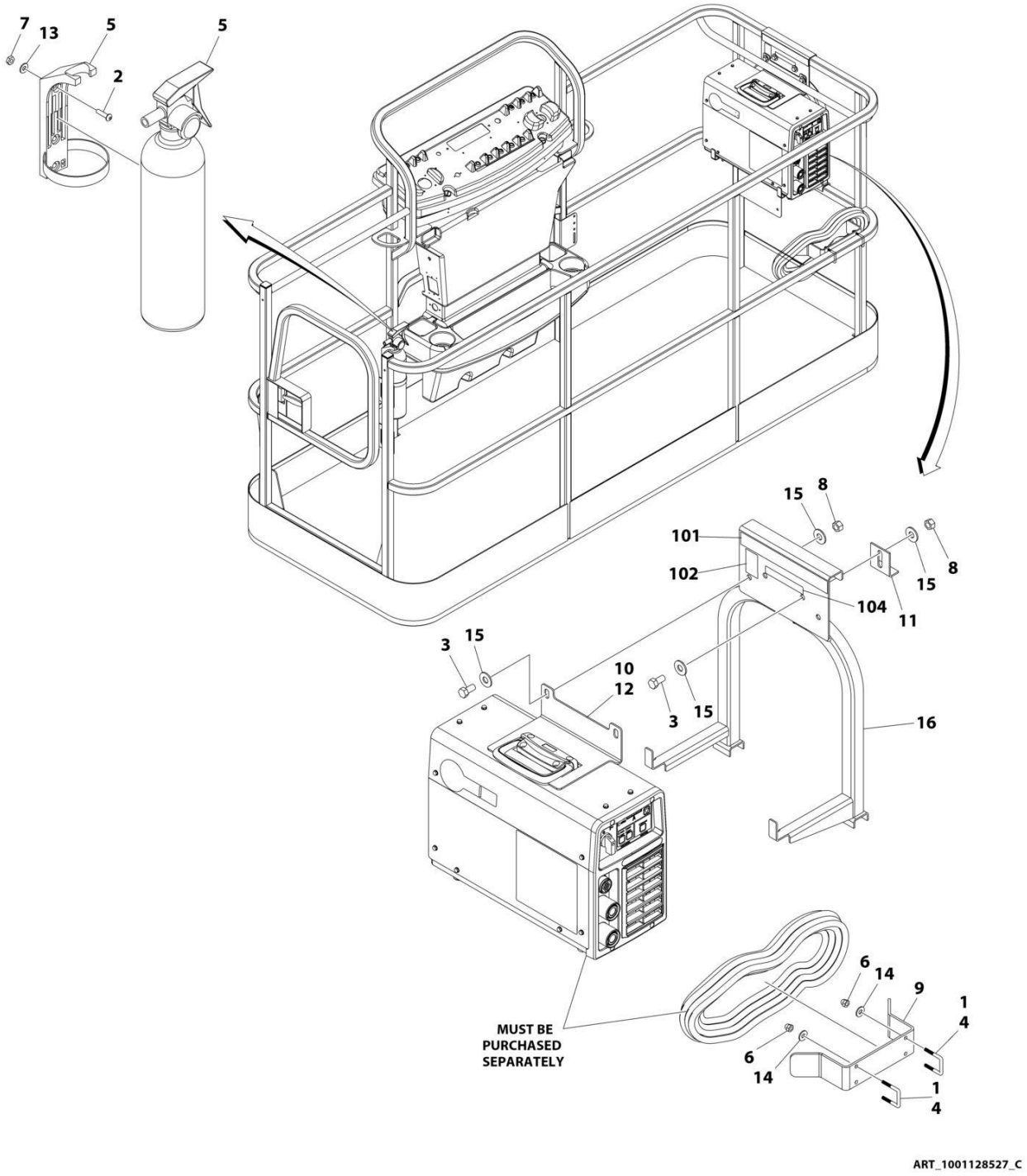


FIGURE 5-43. SKYWELDER PREP PACKAGE (60HZ)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128527	Ref	SKYWELDER PREP PACKAGE	C
1	0100011	AR	Compound, Locking	
2	0630518	2	Screw #10 x 3/4	
3	0641606	4	Bolt 3/8 x 3/4	
4	1320302	2	U-Clamp	
5	2030010	1	Extinguisher, Fire	
6	3300151	4	Nut 1/4	
7	3311005	2	Nut #10	
8	3311605	4	Nut 3/8	
9	3573400	1	Bracket	
10	1001269573	1	Plate	
11	3577121	2	Angle	
12	4420037	AR	Tape	
13	4751000	2	Washer #10	
14	4751400	4	Washer 1/4	
15	4751600	8	Washer 3/8	
16	1001269322	1	Support	
	1001128556	Ref	SKYWELDER DECAL INSTALLATION	D
101	1702868	1	Decal - No Hands	
102	1705305	1	Decal - Weld Lead	
104	1001228988	1	Decal - Weight	

FIGURE 5-44. WELDER ASSEMBLY

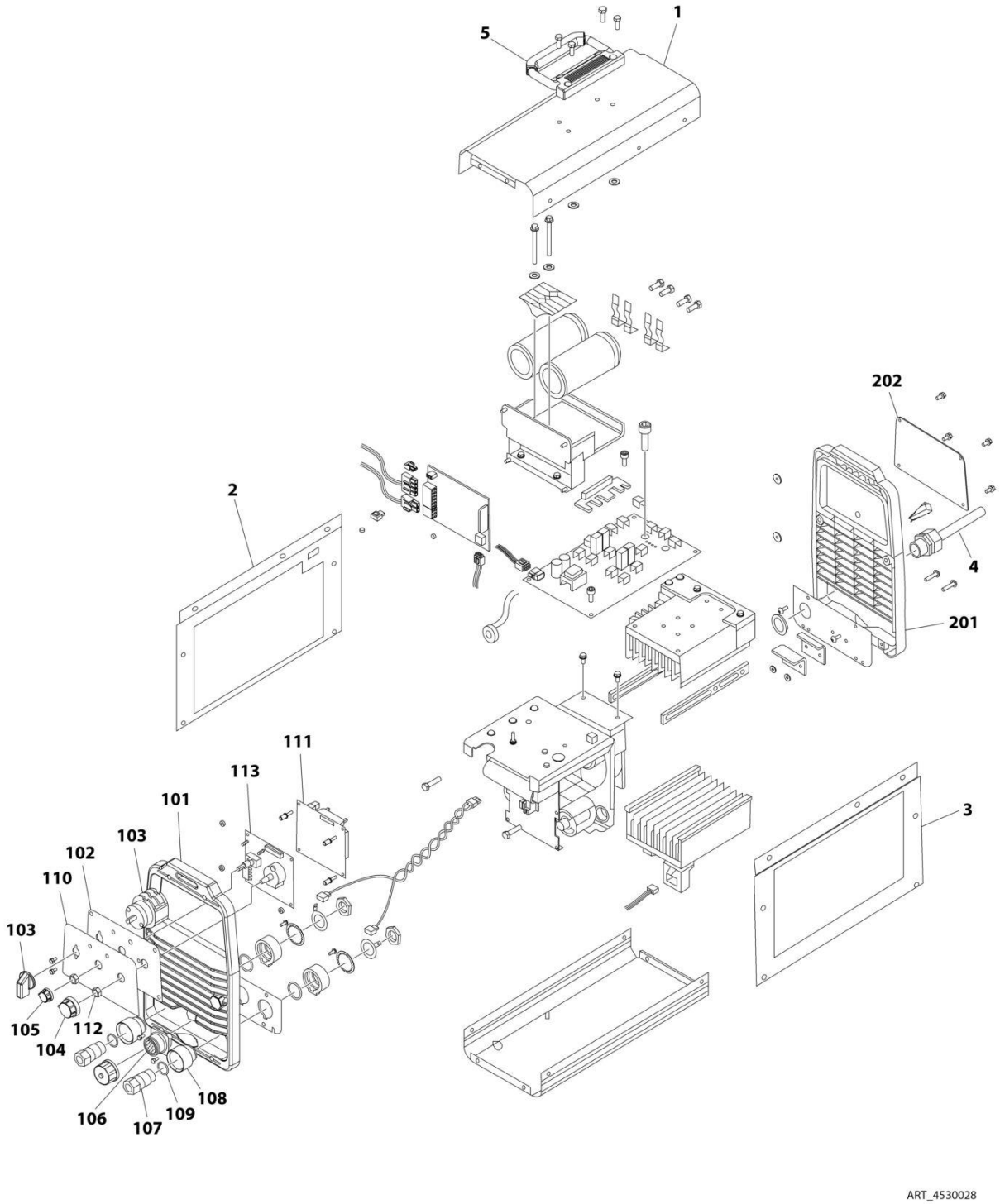


FIGURE 5-44. WELDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4530028	Ref	WELDER ASSEMBLY	B
		Ref	Note: For Other Components, contact your Miller Welder Dealer.	
1	7027773	1	Cover, Top	
1	7027774	1	Decal - Static Precautionary Warning	
2	See Note	NSS	Panel, LH Side (Note: Part of Item 1. Purchase Item 1)	
3	See Note	NSS	Panel, RH Side (Note: Part of Item 1. Purchase Item 1)	
4	7024467	1	Cable, Power	
4	7027775	1	Decal - Electrical Shock Warning (Not Shown)	
5	7027776	1	Handle, Carrying	
101	7024462	1	Panel, Front	
102	7024463	1	Panel, Console	
103	7024469	1	Switch with Lead	
104	7024470	1	Knob	
105	7024471	1	Knob	
106	7024472	1	Receptacle with Leads and Plugs	
107	7024473	2	Receptacle, Twistlock Female	
108	7024474	2	Insulator	
109	7024475	2	O-Ring	
110	7027777	1	Nameplate	
111	7027779	1	Circuit Card Assembly (Process Control)	
112	7024478	2	Nut	
113	7027778	1	Circuit Card Assembly (Operator Interface)	
201	7024462	1	Panel, Rear	
202	7027780	1	Panel, Cover	

FIGURE 5-45. FALL ARREST INSTALLATION (BOLT - ON EXTERNAL) 6FT/1.82M PLATFORM

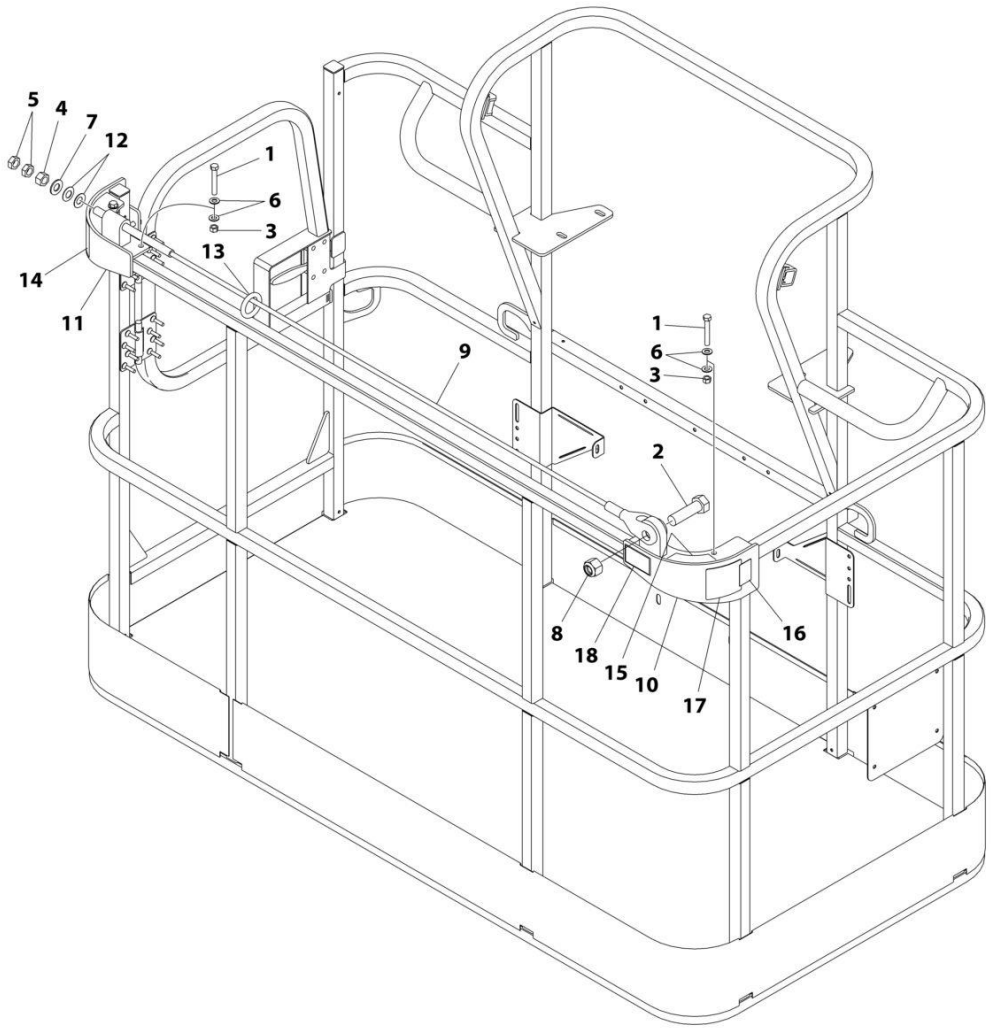


FIGURE 5-45. FALL ARREST INSTALLATION (BOLT - ON EXTERNAL) 6FT/1.82M PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001236747	Ref	FALL ARREST INSTALLATION (BOLT - ON) 6FT/1.82M PLATFORM	C
1	0681620	6	Bolt 3/8 x 2-1/2	
2	0682424	1	Bolt 7/8 x 3	
3	3271605	6	Nut 3/8	
4	3272001	1	Nut 5/8	
5	3312002	2	Nut 5/8	
6	4711600	12	Washer 3/8	
7	4712000	1	Washer 5/8	
8	88521214	1	Nut 7/8	
9	1001231950	1	Rope	
10	1001232010	1	Bracket (RH)	
11	1001232011	1	Bracket (LH)	
12	1001236891	2	Washer	
13	1001236895	1	Ring	
14	1001238263	1	Decal - Warning Falling Hazard	
15	1001252629	1	Decal - Weight	
16	1001248140	1	Decal - Bolt Fall Arrest Re-Cert	
17	1001248141	1	Decal - Inscription	

FIGURE 5-46. FALL ARREST INSTALLATION (BOLT - ON EXTERNAL) 6FT/1.82M PLATFORM

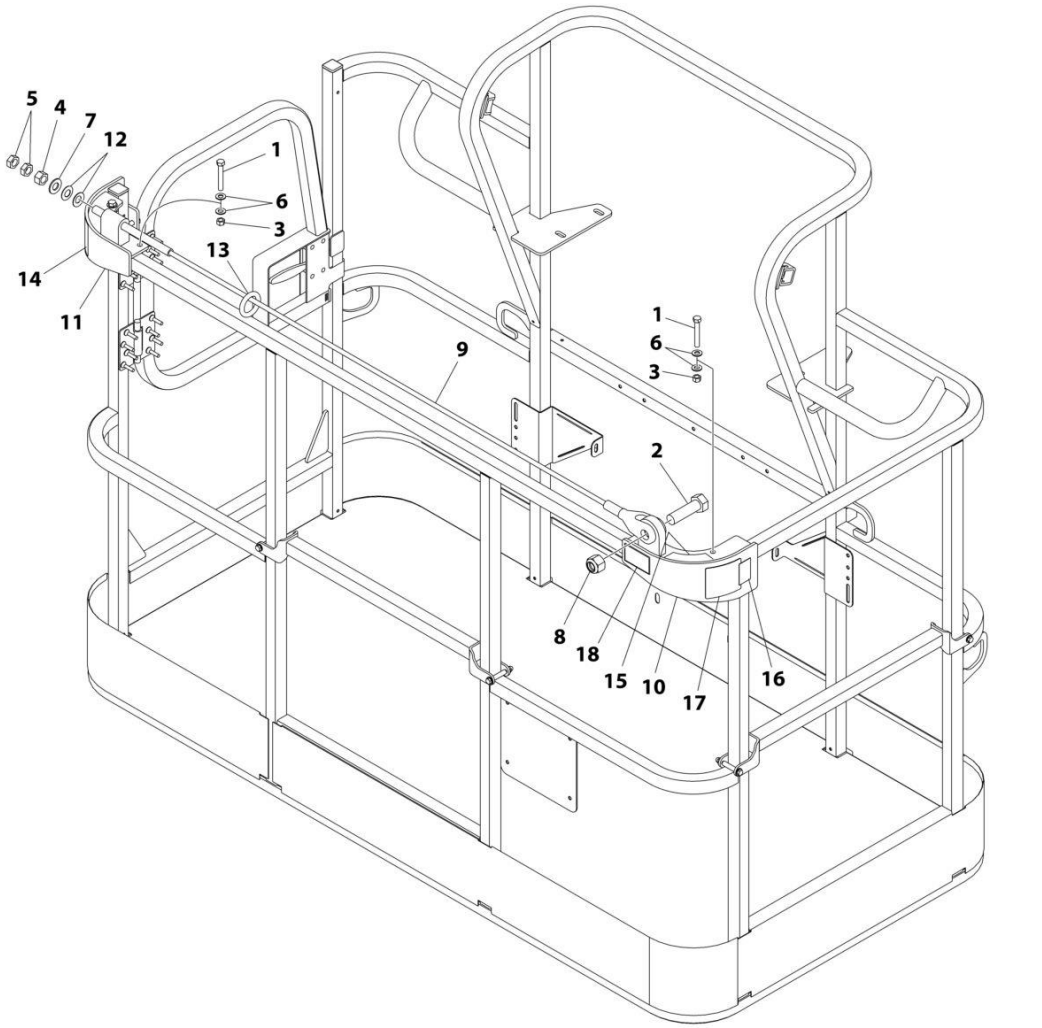


FIGURE 5-46. FALL ARREST INSTALLATION (BOLT - ON EXTERNAL) 6FT/1.82M PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001238463	Ref	FALL ARREST INSTALLATION (BOLT - ON) 6FT/1.82M PLATFORM	C
1	0681620	6	Bolt 3/8 x 2-1/2	
2	0682424	1	Bolt 7/8 x 3	
3	3271605	6	Nut 3/8	
4	3272001	1	Nut 5/8	
5	3312002	2	Nut 5/8	
6	4711600	12	Washer 3/8	
7	4712000	1	Washer 5/8	
8	88521214	1	Nut 7/8	
9	1001231950	1	Rope	
10	1001232010	1	Bracket (RH)	
11	1001232011	1	Bracket (LH)	
12	1001236891	2	Washer	
13	1001236895	1	Ring	
14	1001238263	1	Decal - Warning Falling Hazard	
15	1001252629	1	Decal - Weight	
16	1001248140	1	Decal - Bolt Fall Arrest Re-Cert	
17	1001248141	1	Decal - Inscription	

FIGURE 5-47. FALL ARREST INSTALLATION (BOLT - ON EXTERNAL) 8FT/2.4M PLATFORM

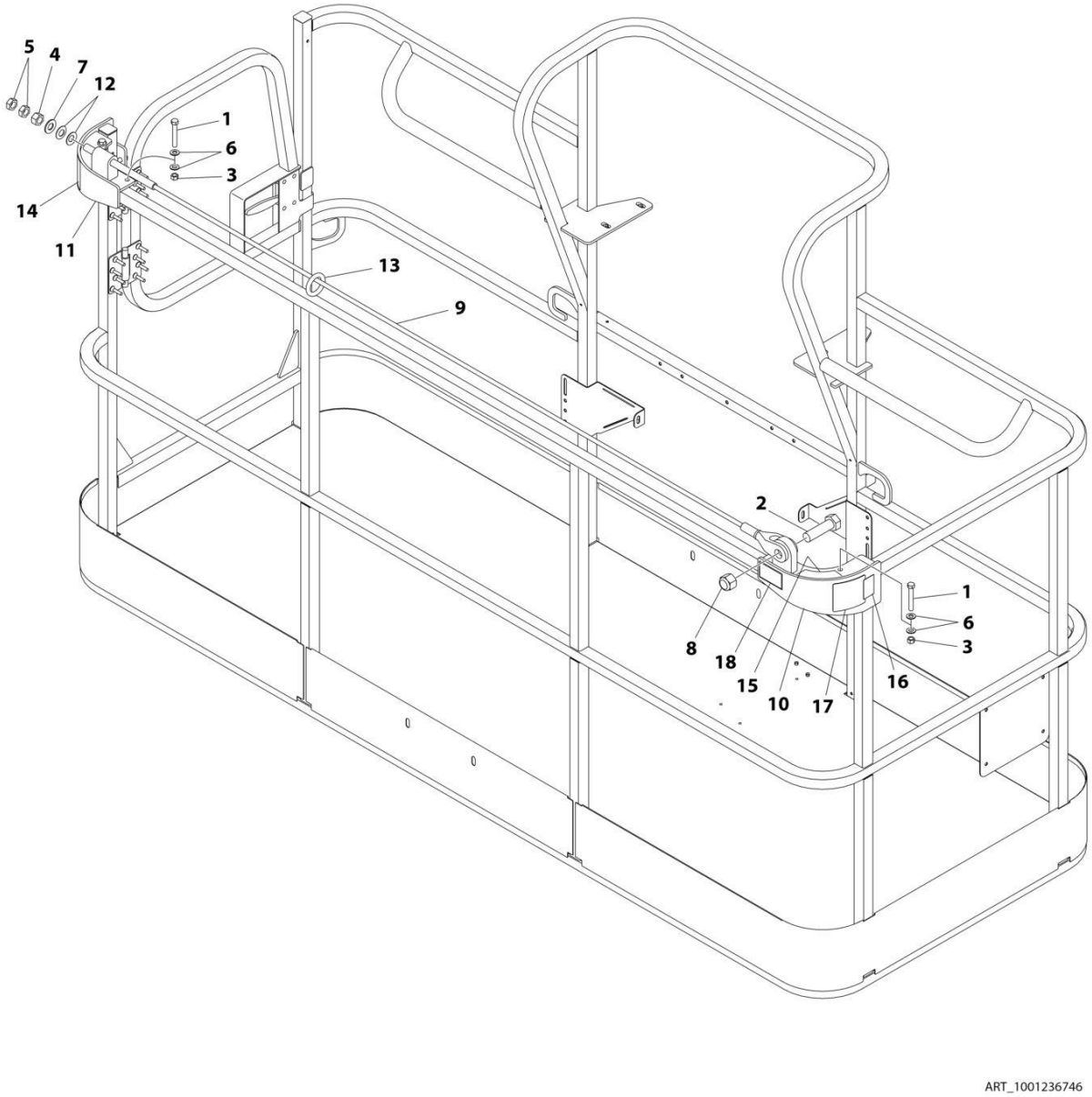


FIGURE 5-47. FALL ARREST INSTALLATION (BOLT - ON EXTERNAL) 8FT/2.4M PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001236746	Ref	FALL ARREST INSTALLATION (BOLT - ON) 8FT/2.4M PLATFORM	C
1	0681620	6	Bolt 3/8 x 2-1/2	
2	0682424	1	Bolt 7/8 x 3	
3	3271605	6	Nut 3/8	
4	3272001	1	Nut 5/8	
5	3312002	2	Nut 5/8	
6	4711600	12	Washer 3/8	
7	4712000	1	Washer 5/8	
8	88521214	1	Nut 7/8	
9	1001231949	1	Rope	
10	1001232010	1	Bracket (RH)	
11	1001232011	1	Bracket (LH)	
12	1001236891	2	Washer	
13	1001236895	1	Ring	
14	1001238263	1	Decal - Warning Falling Hazard	
15	1001252629	1	Decal - Weight 23LBS/10.4KG	
16	1001248140	1	Decal - Bolt Fall Arrest Re-Cert	
17	1001248141	1	Decal - Inscription	

SECTION 6 - CYLINDER

SECTION 6 - CYLINDER

FIGURE 6-1. AXLE EXTENSION CYLINDER ASSEMBLY

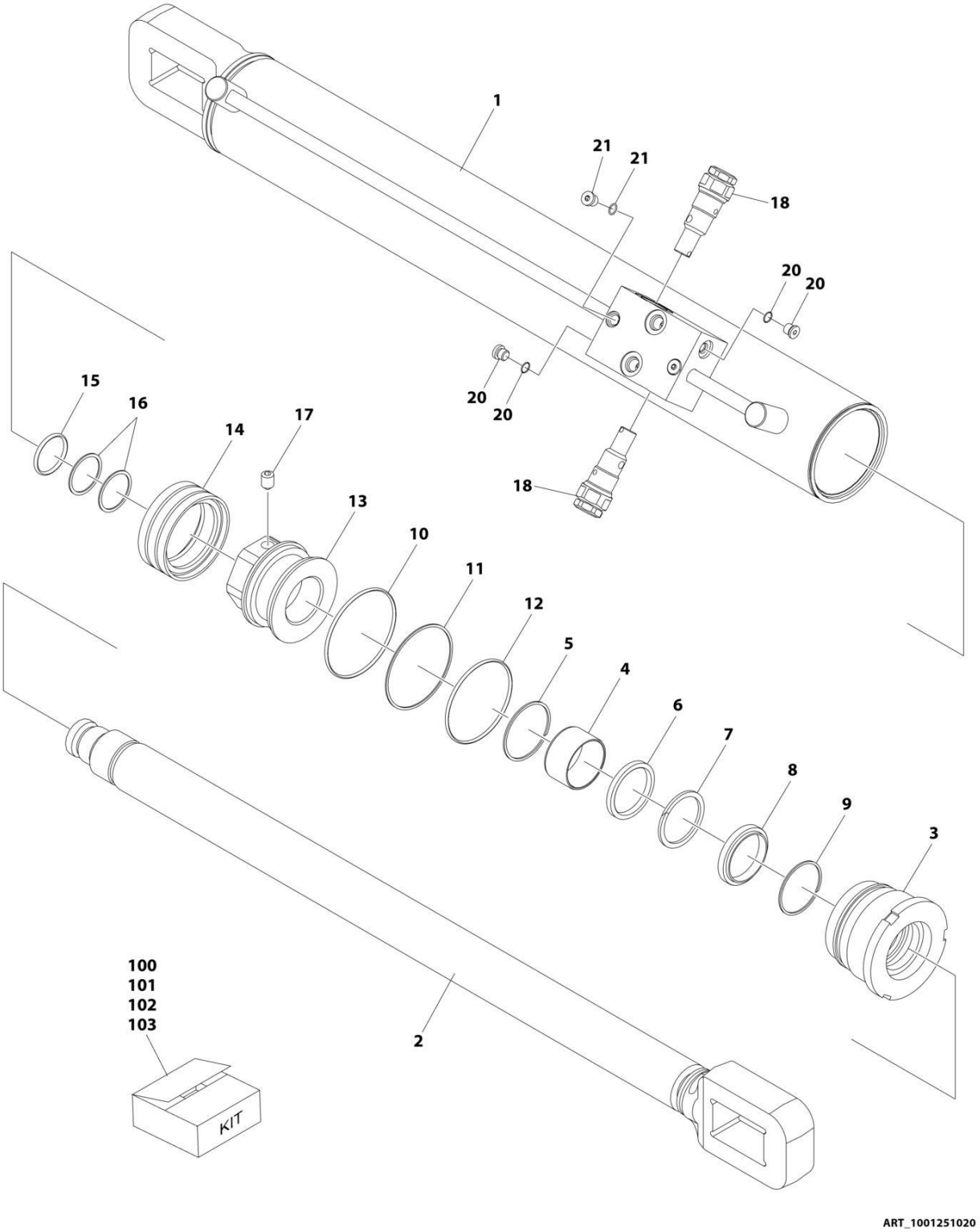


FIGURE 6-1. AXLE EXTENSION CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251020	Ref	AXLE EXTENSION CYLINDER ASSEMBLY	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 (Note: Use p/n 1001251020)	
2	70007382	1	Rod	
3	See Note	NSS	Head (Use Item 100)	
5	See Note	NSS	Ring (Note: Use Item 100)	
6	See Note	NSS	Seal (Note: Use Item 101)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
8	See Note	NSS	Wiper, Rod (Note: Use Item 101)	
9	See Note	NSS	Ring, Retaining (Note: Use Item 101)	
10	See Note	NSS	O-Ring (Note: Use Item 101)	
11	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
12	See Note	NSS	O-Ring (Note: Use Item 101)	
13	See Note	NSS	Piston (Note: Use Item 102)	
14	See Note	NSS	Seal (Note: Use Item 101)	
15	See Note	NSS	O-Ring (Note: Use Item 101)	
16	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
17	See Note	NSS	Setscrew (Note: Use Item 102)	
18	4640509	2	Cartridge, Holding Valve	
18	2900792	2	Seal Kit - 4640509 Cartridge Valve (1 Per Assembly)	
20	See Note	NSS	Plug (Note: Use Item 103)	
21	See Note	NSS	Plug (Note: Use Item 103)	
100	70007383	1	Rod Cover Kit (Includes Items 3-5)	
101	70007384	1	Seal Kit (Includes Items 6-12 & 14-16)	
102	70007385	1	Piston Kit (Includes Items 13 & 17)	
103	70007386	1	Plug Kit (Includes Items 20 & 21)	

FIGURE 6-2. AXLE LOCKOUT CYLINDER ASSMBLY

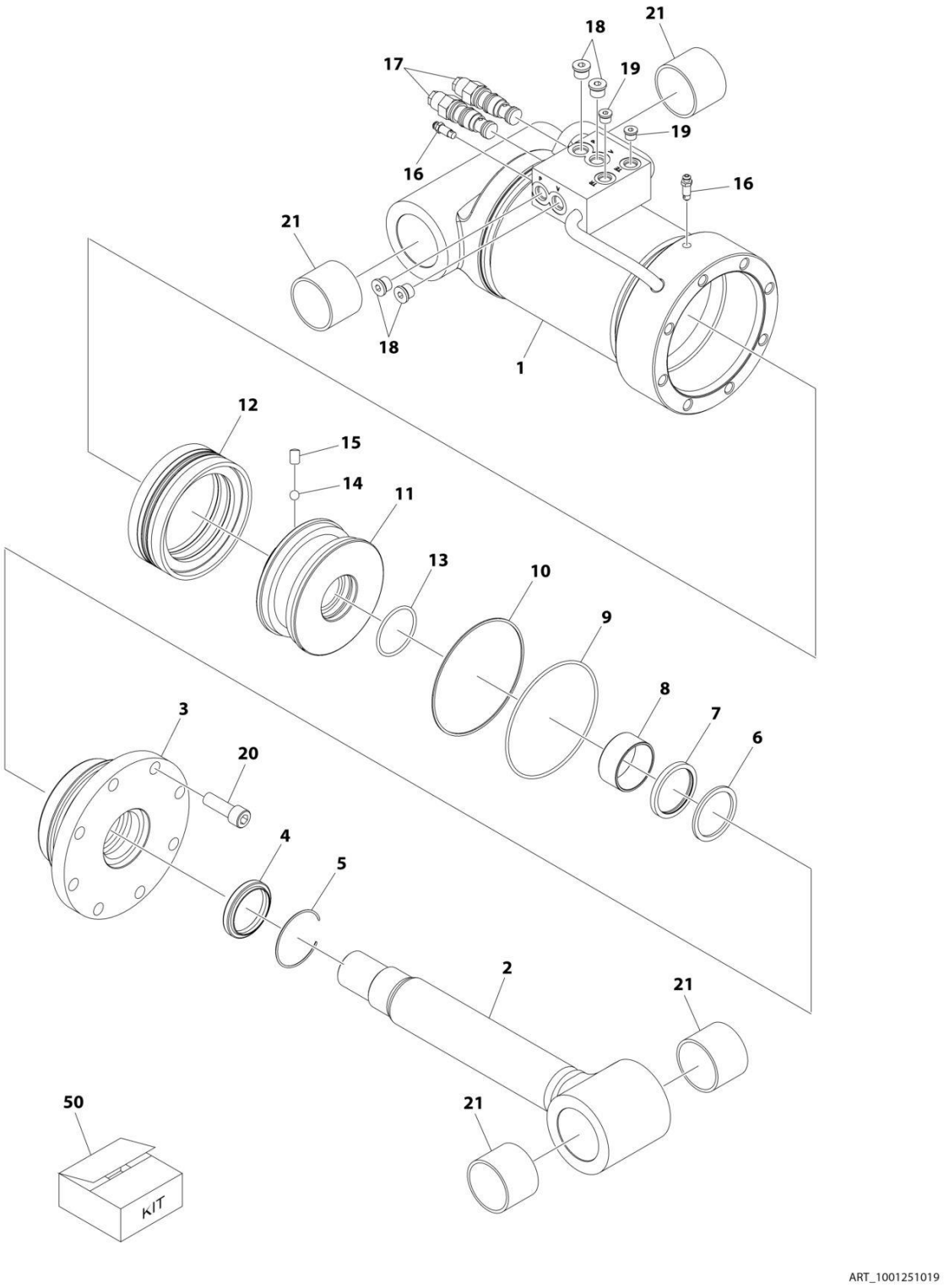


FIGURE 6-2. AXLE LOCKOUT CYLINDER ASSMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251019	Ref	AXLE LOCKOUT CYLINDER ASSEMBLY	B
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Use PN 1001251019)	
2	70007984	1	Rod	
3	70007985	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 50)	
5	70002412	1	Ring, Retaining	
6	See Note	NSS	Seal, Rod (Note: Use Item 50)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 50)	
8	70005153	1	Bearing	
9	See Note	NSS	O-Ring (Note: Use Item 50)	
10	See Note	NSS	Ring, Back-up (Note: Use Item 50)	
11	7007986	1	Piston	
12	See Note	NSS	Seal, Piston (Note: Use Item 50)	
13	See Note	NSS	O-Ring (Note: Use Item 50)	
14	70022564	1	Ball	
15	70006596	1	Setscrew M8 x 12	
16	70007987	2	Bleeder	
17	4641276	2	Cartridge, Valve - Counterbalance	
17	2900770	2	Seal Kit - 4641276 Valve	
18	2220885	4	Plug 9/16	
19	2220883	2	Plug 7/16	
20	70007988	8	Bolt M12 x 50	
21	0961950	4	Bearing	
50	70007989	1	Seal Kit - 1001251019 Cylinder (Includes Items 4, 6, 7, 9, 10, 12 & 13)	

FIGURE 6-3. PLATFORM LEVEL CYLINDER ASSEMBLY - WITHOUT COLD WEATHER PLUS PACKAGE

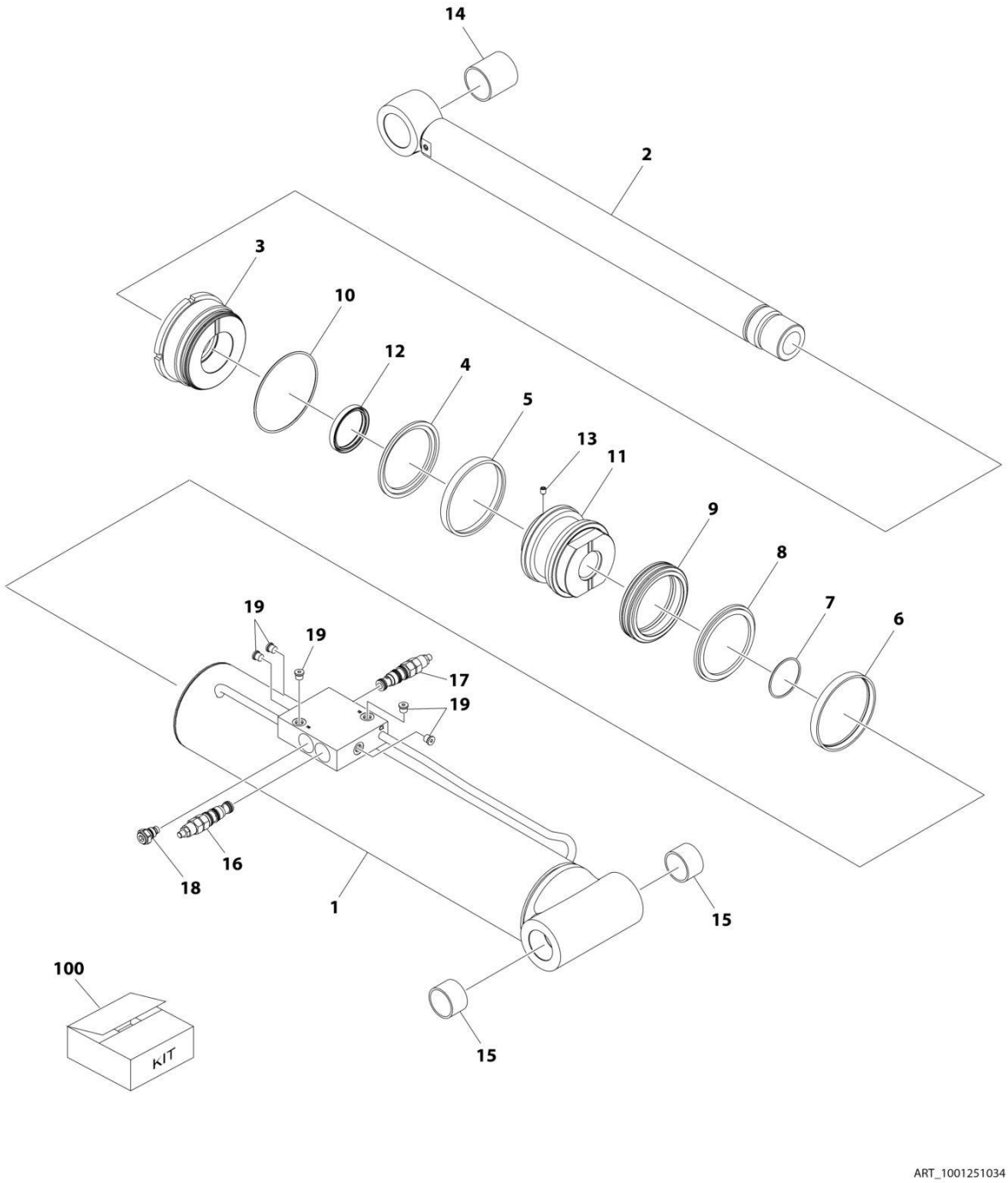


FIGURE 6-3. PLATFORM LEVEL CYLINDER ASSEMBLY - WITHOUT COLD WEATHER PLUS PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251034	Ref	PLATFORM LEVEL 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 (Note: Not Available for Purchase)	
2	70008067	1	Rod	
3	70008068	1	Head	
4	See Note	NSS	Wiper, Rod (Note: Use Item 100)	
5	See Note	NSS	Seal, Rod (Note: Use Item 100)	
6	See Note	NSS	Ring, Wear (Note: Use Item 100)	
7	See Note	NSS	O-Ring (Note: Use Item 100)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
9	See Note	NSS	O-Ring (Note: Use Item 100)	
10	See Note	NSS	O-Ring (Note: Use Item 100)	
11	70008069	1	Piston	
12	See Note	NSS	Seal (Note: Use Item 100)	
13	70005839	1	Setscrew M8 x 12	
14	0962561	1	Bushing	
15	0961949	2	Bushing	
16	4641386	1	Cartridge, Counterbalance Valve	
16	7011376	1	Seal Kit - 4641386 Cartridge	
17	4641393	1	Cartridge, Counterbalance Valve	
17	7011376	1	Seal Kit - 4641393 Cartridge	
18	4641388	1	Cartridge, Orifice Valve	
18	7011353	1	Seal Kit - 4641388 Cartridge	
19	2220883	5	Plug	
100	70008070	1	Seal Kit (Includes Items 4-10 & 12)	

FIGURE 6-4. LIFT CYLINDER ASSEMBLY - MAIN BOOM

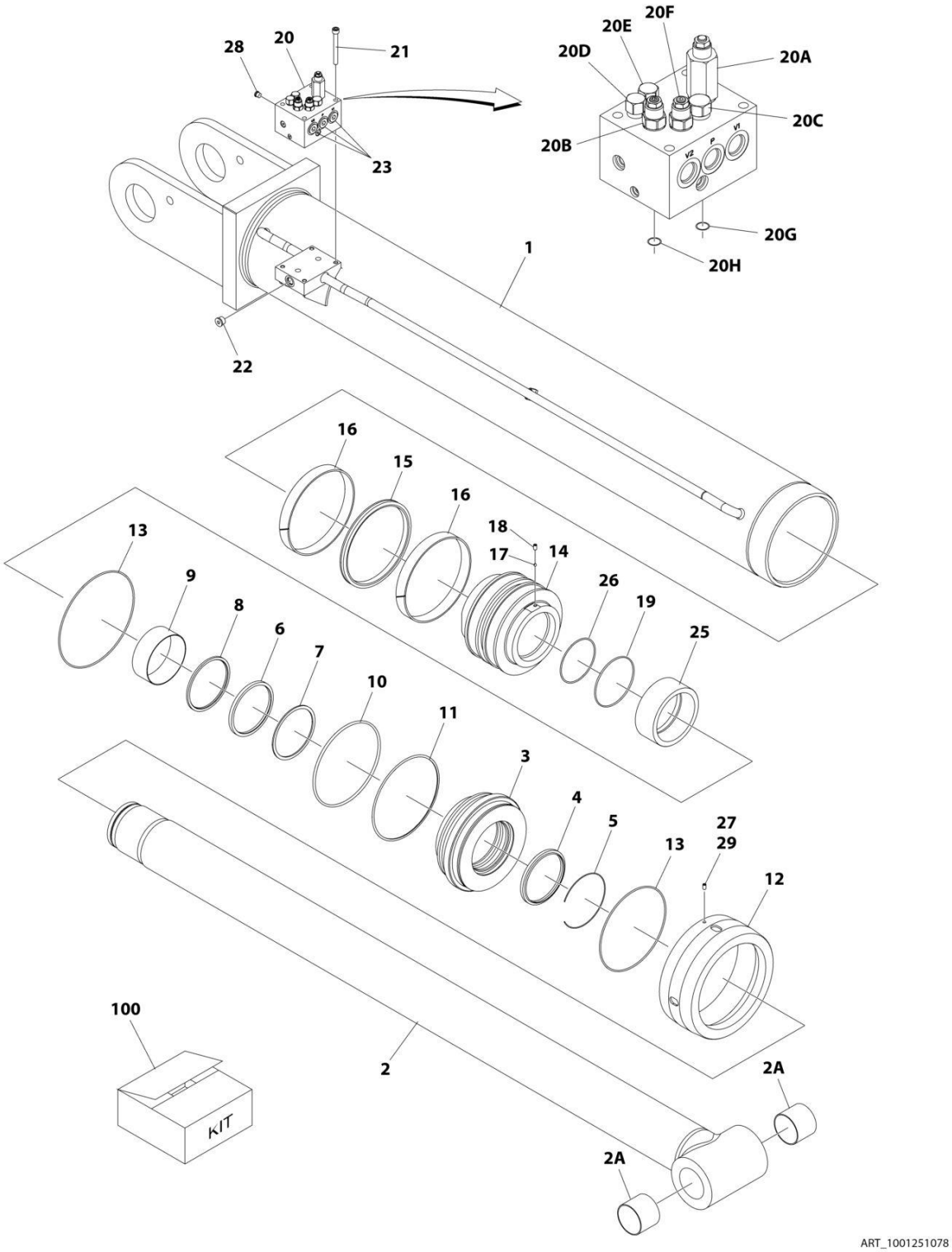


FIGURE 6-4. LIFT CYLINDER ASSEMBLY - MAIN BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251078	Ref	LIFT CYLINDER ASSEMBLY - MAIN BOOM	B
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70007431	1	Rod	
2A	0962297	2	Bushing	
3	70007432	1	Head	
4	See Note	NSS	Ring, Wiper (Note: Use Item 100)	
5	70007433	1	Ring, Retaining	
6	See Note	NSS	Seal, Rod (Note: Use Item 100)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
8	See Note	NSS	O-Ring (Note: Use Item 100)	
9	70007434	1	Ring, Wear	
10	See Note	NSS	O-Ring (Note: Use Item 100)	
11	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
12	70007435	1	Cap, Cylinder	
13	See Note	NSS	O-Ring (Note: Use Item 100)	
14	70007436	1	Piston	
15	See Note	NSS	Seal, Piston (Note: Use Item 100)	
16	See Note	NSS	Ring, Wear (Note: Use Item 100)	
17	70022564	1	Ball, Steel	
18	70029468	1	Setscrew	
19	See Note	NSS	O-Ring (Note: Use Item 100)	
20	4641370	1	Valve Block Assembly	A
20A	4641340	NLA	Cartridge, Valve (Use p/n 1001251329)	
20A	7011367	1	Seal Kit - 4641340 Cartridge Valve	
20B	4640938	1	Cartridge, Valve	
20B	2900770	1	Seal Kit - 4640938 Cartridge Valve	
20C	7011362	1	Cartridge, Valve	
20C	7011311	1	Seal Kit - 7011362 Cartridge Valve	
20D	7011365	1	Cartridge, Valve	
20D	7011346	1	Seal Kit - 7011365 Cartridge Valve	
20E	7011364	1	Cartridge, Valve	
20E	7011346	1	Seal Kit - 7011364 Cartridge Valve	
20F	7011375	1	Cartridge, Valve	
20F	2900770	1	Seal Kit - 7011375 Cartridge Valve	
20G	70000777	1	O-Ring	
20H	70000778	1	O-Ring	
21	70006927	4	Capscrew M8	
22	2220886	1	Plug, O-Ring	
23	70005433	3	Plug, O-Ring	
25	70007437	1	Spacer	
26	See Note	NSS	O-Ring (Note: Use Item 100)	
27	70007282	1	Insert, Locking	
28	2220883	1	Plug, O-Ring	
29	70007438	1	Setscrew	
100	70007439	1	Seal Kit (Includes Items 101-110)	

FIGURE 6-5. LIFT CYLINDER ASSEMBLY - TOWER BOOM

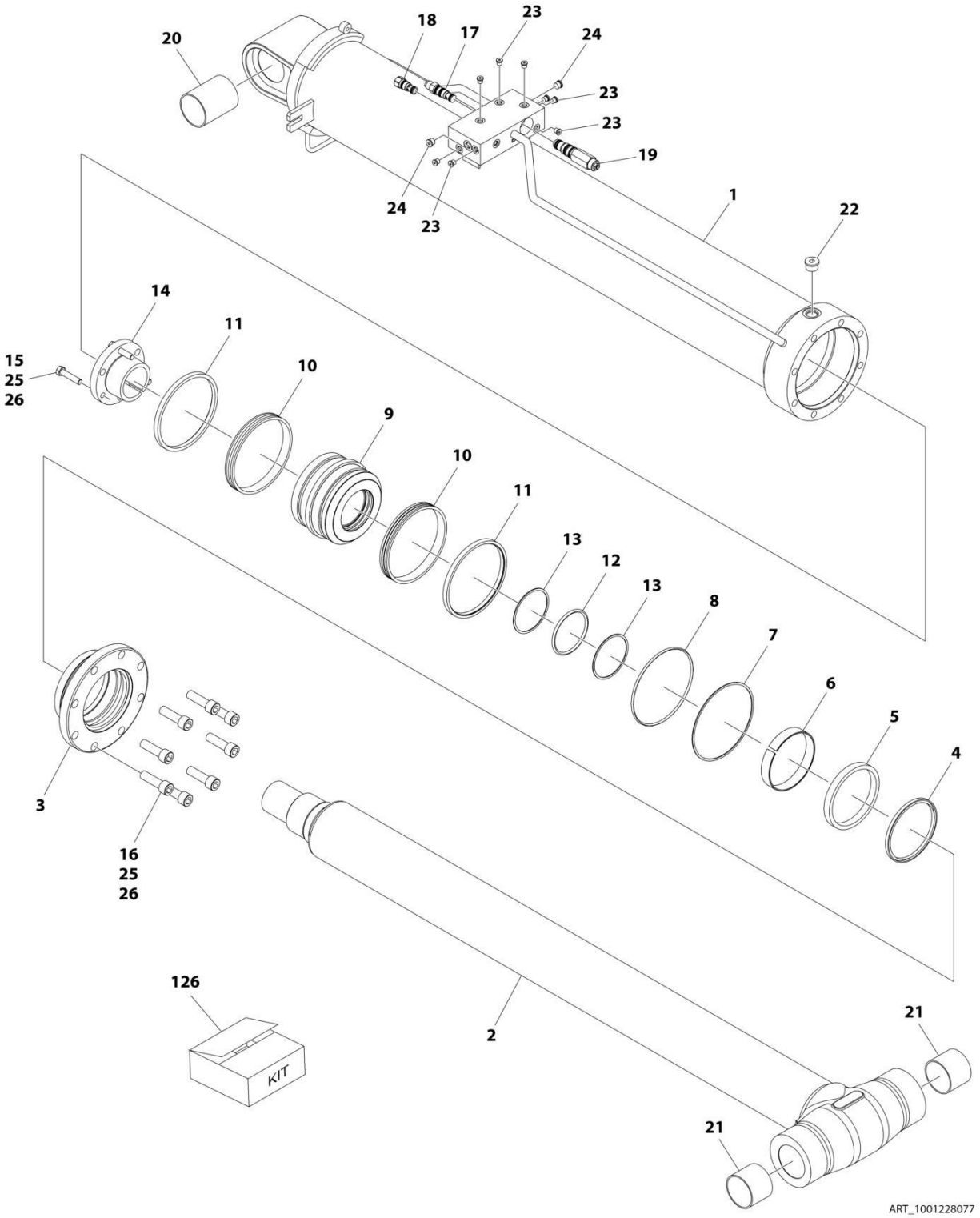


FIGURE 6-5. LIFT CYLINDER ASSEMBLY - TOWER BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228077	Ref	LIFT CYLINDER ASSEMBLY - TOWER BOOM	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70006509	1	Rod	
3	70006508	1	Head	
4	See Note	NSS	Ring, Wiper (Note: Use Item 126)	
5	See Note	NSS	Seal, Rod (Note: Use Item 126)	
6	See Note	NSS	Ring, Wear (Note: Use Item 126)	
7	See Note	NSS	O-Ring (Note: Use Item 126)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 126)	
9	70006507	1	Piston	
10	See Note	NSS	Ring, Hydrolock (Note: Use Item 126)	
11	See Note	NSS	Ring, Lock (Note: Use Item 126)	
12	See Note	NSS	O-Ring (Note: Use Item 126)	
13	See Note	NSS	Ring, Back-up (Note: Use Item 126)	
14	0961901	1	Bushing, Tapered	
15	0630537	3	Capscrew	
16	3932240	8	Capscrew 3/4 x 2-1/2	
17	1001120140	1	Cartridge, Valve	
17	2900770	1	Seal Kit - 1001120140 Cartridge Valve	
18	4641285	1	Cartridge, Valve	
18	7011311	1	Seal Kit - 4641285 Cartridge Valve	
19	1001120141	1	Cartridge, Valve	
19	7011367	1	Seal Kit - 1001120141 Cartridge Valve	
20	0962552	1	Bushing	
21	0962297	2	Bushing	
22	2220888	1	Plug, O-Ring	
23	2220883	9	Plug, O-Ring	
24	2220885	2	Plug, O-Ring	
25	0100011	AR	Compound, Locking	
26	0100038	AR	Primer, Locking	
126	1001118762	1	Seal Kit (Includes Items 4-8 & 10-13)	

FIGURE 6-6. JIB CYLINDER ASSEMBLY

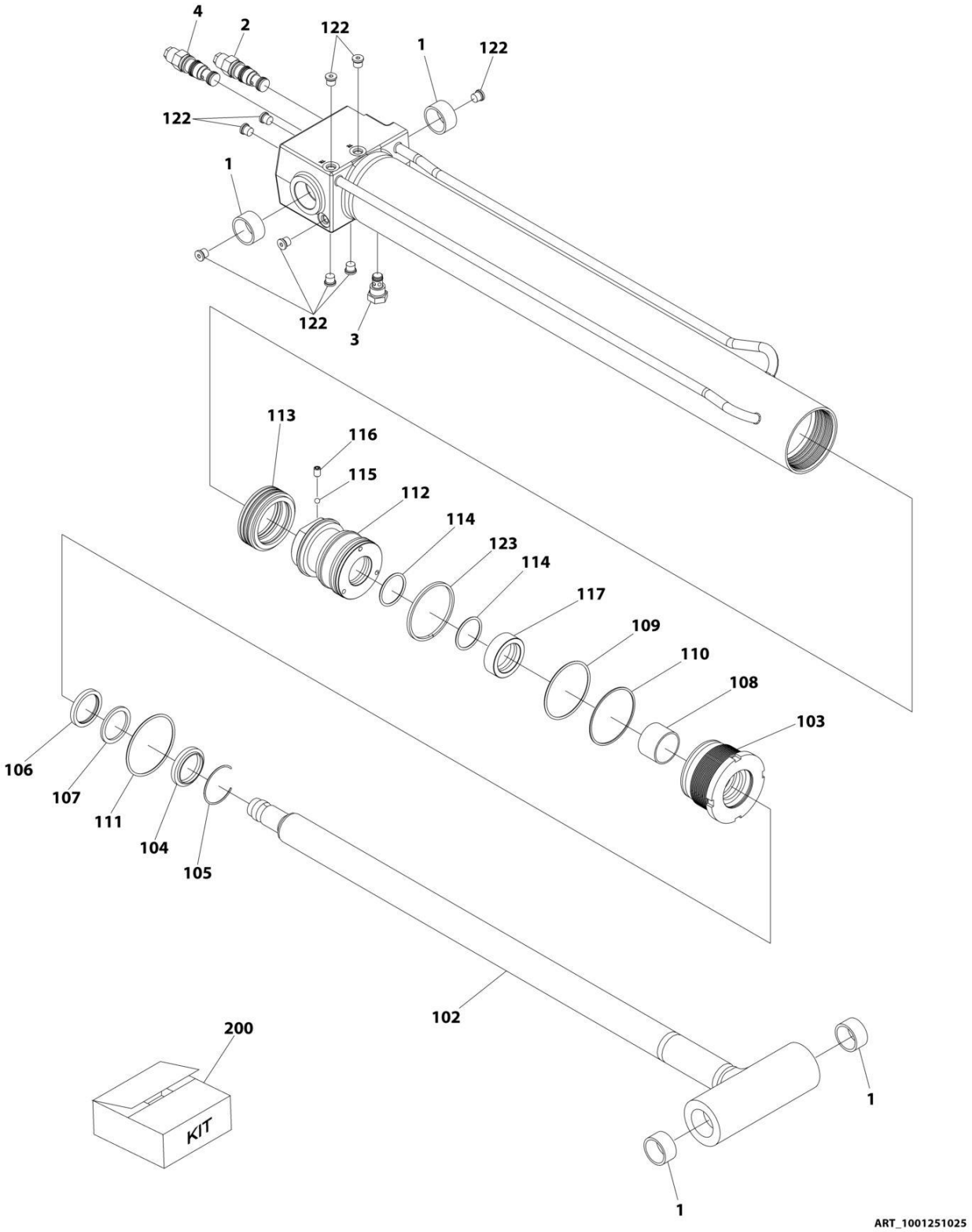


FIGURE 6-6. JIB CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251025	Ref	JIB CYLINDER ASSEMBLY	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	0962257	4	Bushing	
2	4640452	1	Valve, Counterbalance	
2	2900770	1	Seal Kit - For 4640452 Counterbalance Valve	
3	4641114	1	Valve, Check	
3	7012998	1	Seal Kit - For 4641114 Check Valve	
4	4641260	1	Valve, Counterbalance	
4	2900770	1	Seal Kit - For 4641260 Counterbalance Valve	
102	70007993	1	Rod	
103	70007994	1	Head	
104	See Note	NSS	Wiper (Note: Use Item 200)	
105	70002373	1	Ring, Retaining	
106	See Note	NSS	Seal (Note: Use Item 200)	
107	See Note	NSS	Ring (Note: Use Item 200)	
108	70005143	1	Bearing	
109	See Note	NSS	O-Ring (Note: Use Item 200)	
110	See Note	NSS	Ring (Note: Use Item 200)	
111	See Note	NSS	O-Ring (Note: Use Item 200)	
112	70007995	1	Piston	
113	See Note	NSS	Seal (Note: Use Item 200)	
114	See Note	NSS	O-Ring (Note: Use Item 200)	
115	70022564	1	Ball, Steel	
116	70006596	1	Setscrew M8 x 1-1/4	
117	70007996	1	Spacer	
122	2220883	9	Plug	
123	70007997	1	Ring	
200	70007998	1	Seal Kit (Includes Items 104, 106, 107, 109-111, 113 & 114)	

FIGURE 6-7. STEER CYLINDER ASSEMBLY

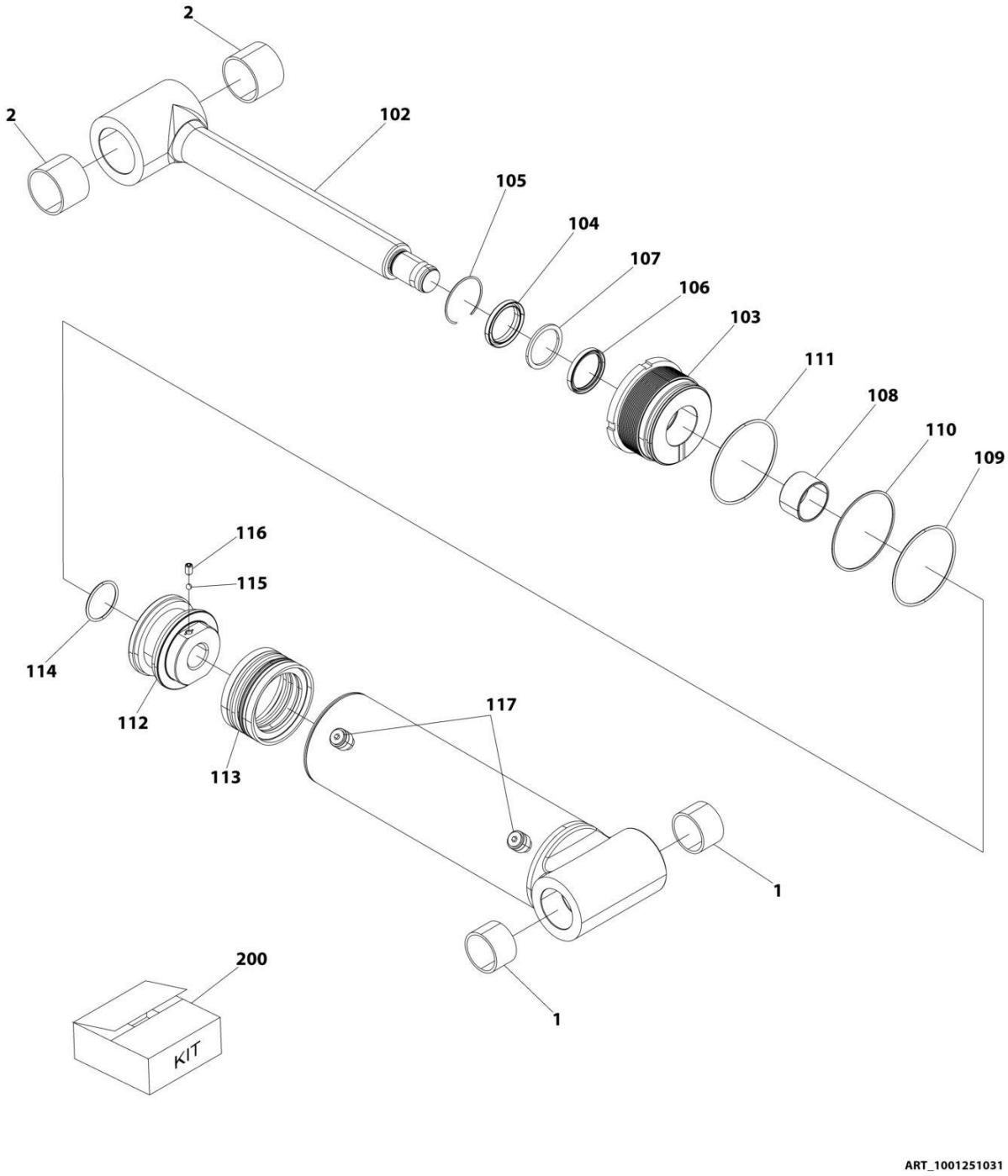


FIGURE 6-7. STEER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251031	Ref	STEER CYLINDER ASSEMBLY	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	0961949	2	Bushing	
2	0961950	2	Bushing	
102	70008004	1	Rod	
103	70008005	1	Head	
104	See Note	NSS	Wiper (Note: Use Item 200)	
105	70002410	1	Ring, Retaining	
106	See Note	NSS	Seal (Note: Use Item 200)	
107	See Note	NSS	Ring (Note: Use Item 200)	
108	70004237	1	Bearing	
109	See Note	NSS	O-Ring (Note: Use Item 200)	
110	See Note	NSS	Ring (Note: Use Item 200)	
111	See Note	NSS	O-Ring (Note: Use Item 200)	
112	70008006	1	Piston	
113	See Note	NSS	Seal (Note: Use Item 200)	
114	See Note	NSS	O-Ring (Note: Use Item 200)	
115	70022564	1	Ball, Steel	
116	70006596	1	Setscrew M8 x 1-1/4	
117	2220885	2	Plug	
200	70008007	1	Seal Kit (Includes Items 104, 106, 107, 109-111, 113 & 114)	

FIGURE 6-8. TELESCOPE CYLINDER ASSEMBLY - MAIN BOOM

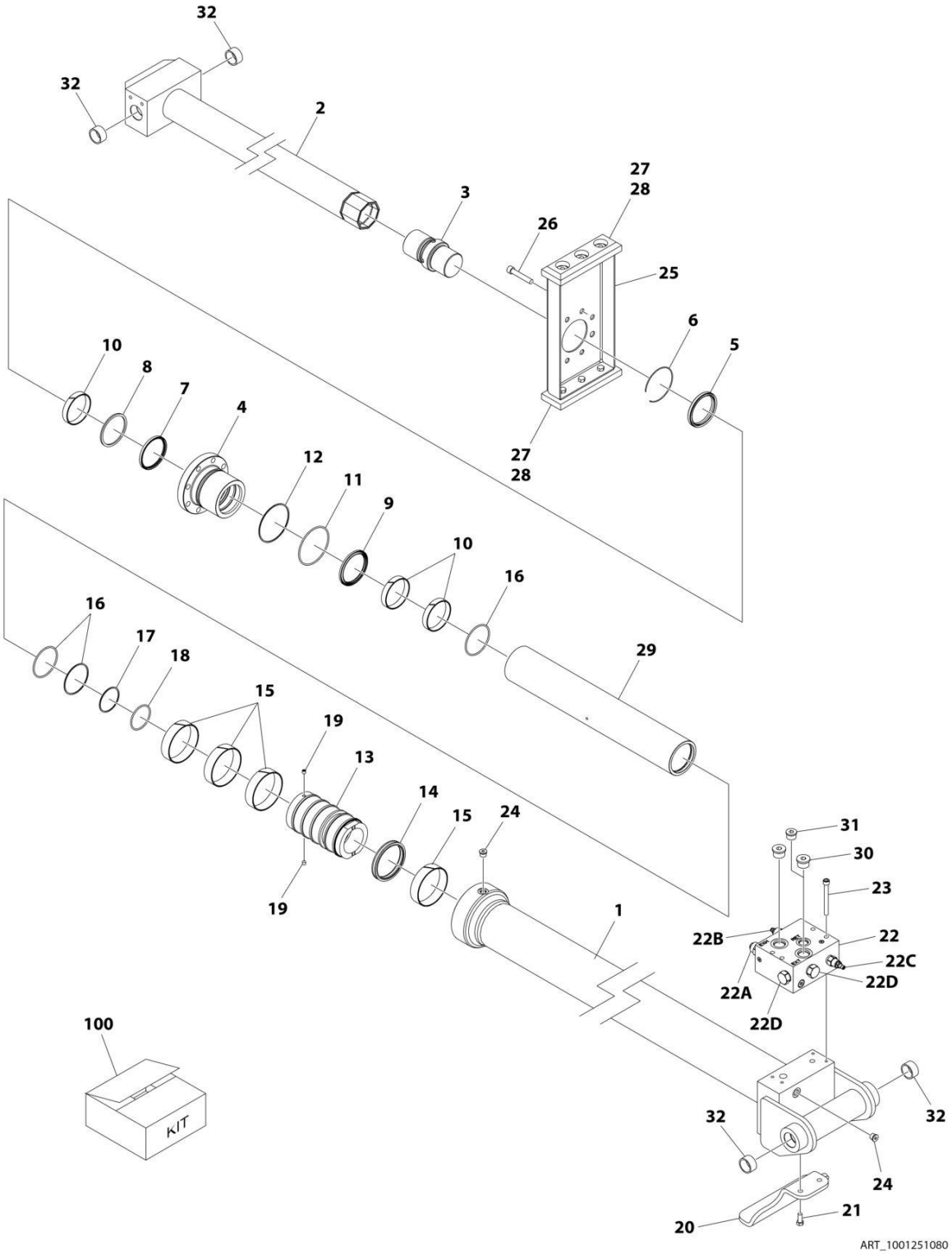


FIGURE 6-8. TELESCOPE CYLINDER ASSEMBLY - MAIN BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251080	Ref	PLATFORM LEVEL 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 (Note: Not Available for Purchase)	
2	70008071	1	Rod	
3	70008072	1	Cap, Rod End	
4	70007977	1	Head	
5	See Note	NSS	Wiper (Note: Use Item 100)	
6	70023379	2	Ring, Retaining	
7	See Note	NSS	Seal (Note: Use Item 100)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 100)	
9	See Note	NSS	Ring, Buffer (Note: Use Item 100)	
10	See Note	NSS	Ring, Wear (Note: Use Item 100)	
11	See Note	NSS	O-Ring (Note: Use Item 100)	
12	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
13	70008073	1	Piston	
14	See Note	NSS	Seal (Note: Use Item 100)	
15	See Note	NSS	Ring, Wear (Note: Use Item 100)	
16	See Note	NSS	O-Ring (Note: Use Item 100)	
17	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
18	See Note	NSS	O-Ring (Note: Use Item 100)	
19	70006799	2	Setscrew M8 x 12	
20	3574586	1	Bracket	
21	70008074	2	Capscrew M10 x 1-1/2	
22	4641288	1	Valve Assembly	
22A	7011372	1	Cartridge	
22A	2900789	1	Seal Kit - 7011372 Cartridge	
22B	7011370	1	Cartridge	
22B	7011371	1	Seal Kit - 7011370 Cartridge	
22C	7011369	1	Cartridge	
22C	7011311	1	Seal Kit - 7011369 Cartridge	
22D	7011368	3	Cartridge	
22D	7011351	3	Seal Kit - 7011368 Cartridge (1 Per Cartridge)	
23	70008075	4	Capscrew M8 x 90	
24	2220885	2	Plug	
25	70008076	1	Bracket, Wear Pad	
26	70007988	8	Bolt M12 x 50	
27	70008077	2	Wear Pad	
28	70006794	6	Bolt M10 x 16	
29	70008078	1	Spacer	
30	70027702	2	Plug	
31	70005433	1	Plug	
32	0962257	4	Bushing	
100	70008070	1	Seal Kit (Includes Items 5, 7-12 & 14-18)	

FIGURE 6-9. TELESCOPE CYLINDER ASSEMBLY - TOWER BOOM

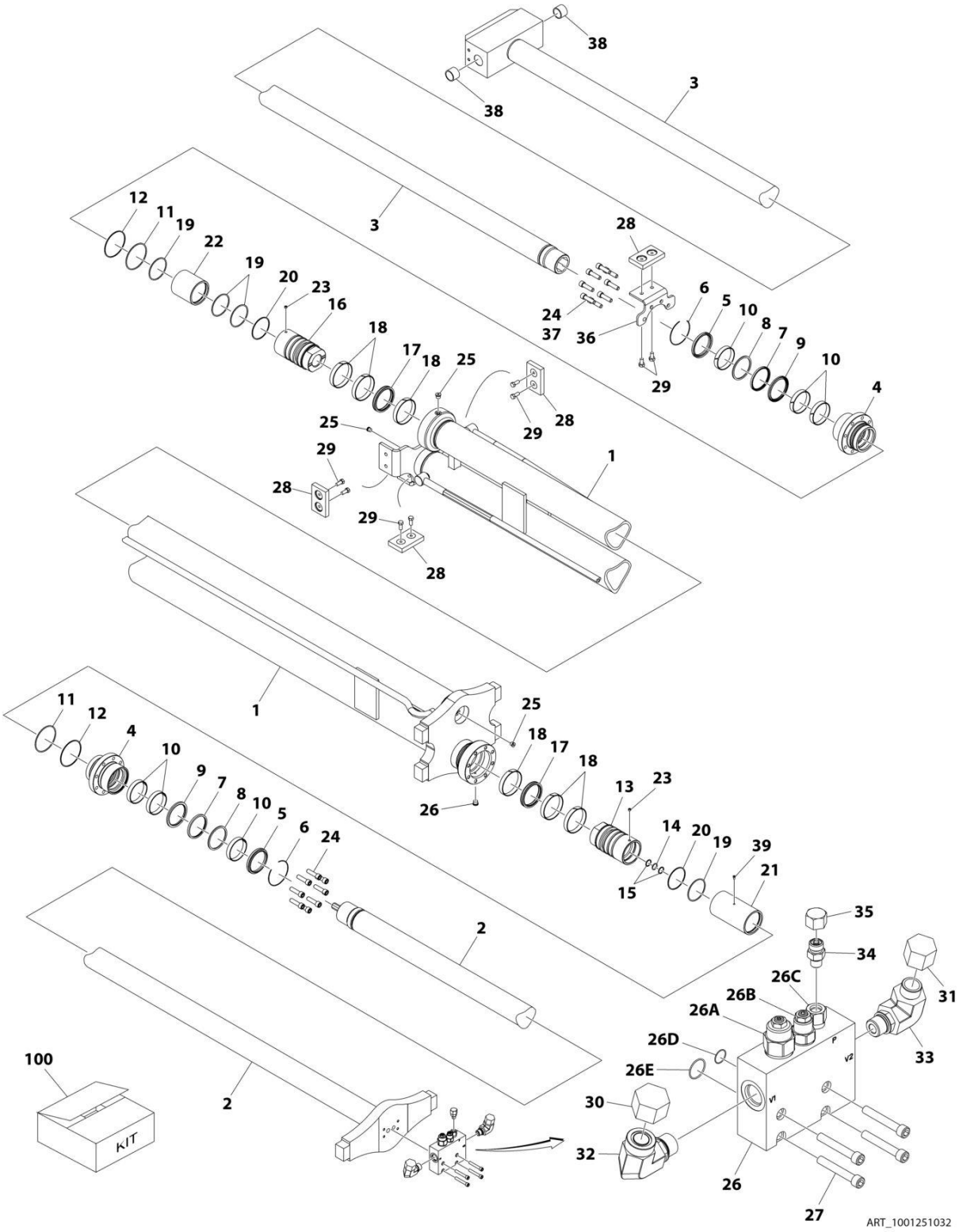


FIGURE 6-9. TELESCOPE CYLINDER ASSEMBLY - TOWER BOOM

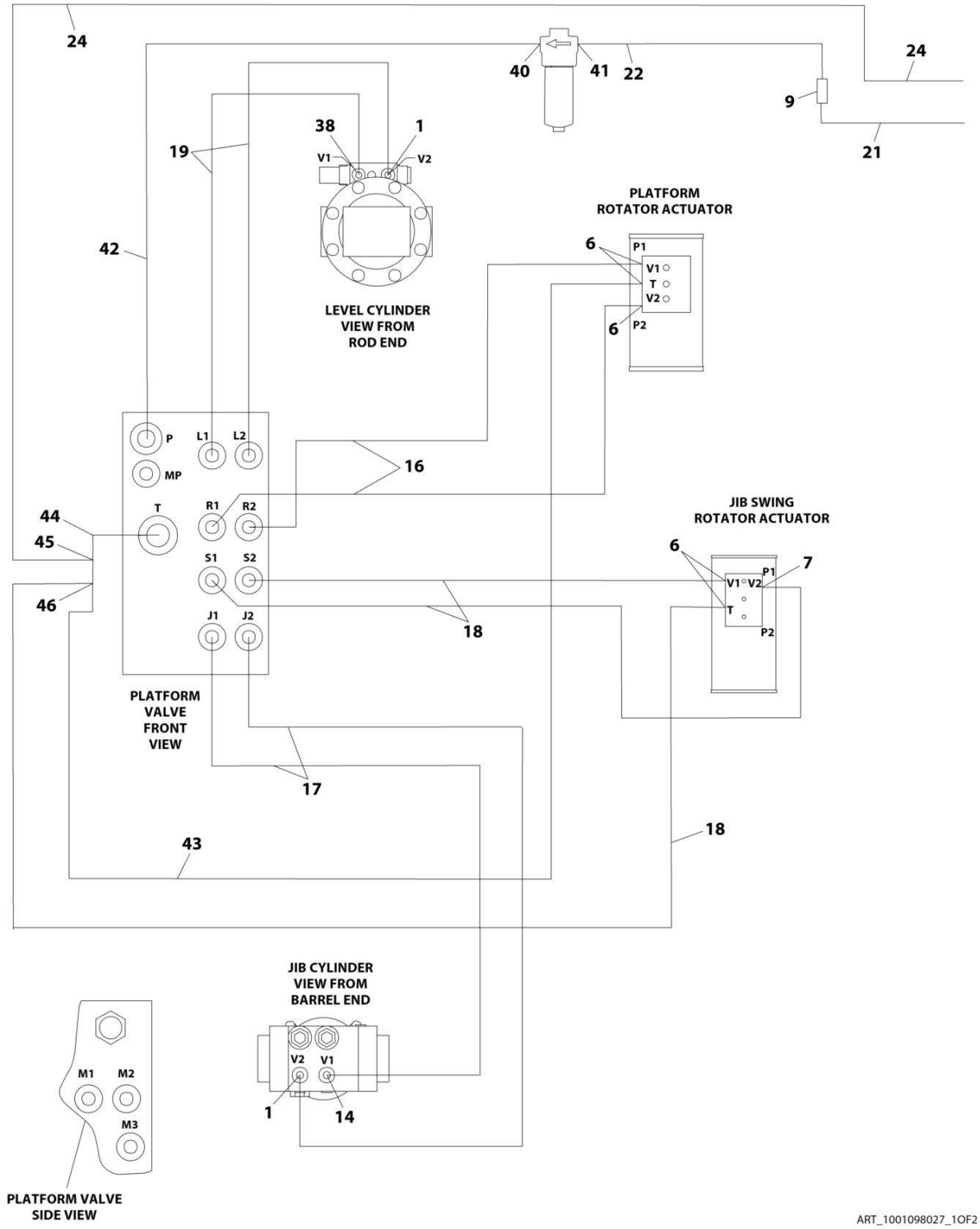
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251032	Ref	TELESCOPE CYLINDER ASSEMBLY - TOWER BOOM	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70008051	1	Rod	
3	70008052	1	Rod	
4	70008053	2	Head	
5	See Note	NSS	Wiper (Note: Use Item 100)	
6	70023379	2	Ring, Retaining	
7	See Note	NSS	Ring, Wear (Note: Use Item 100)	
8	See Note	NSS	Ring, Back Up (Note: Use Item 100)	
9	See Note	NSS	Ring, Buffer (Note: Use Item 100)	
10	See Note	NSS	Ring, Wear (Note: Use Item 100)	
11	See Note	NSS	O-Ring (Note: Use Item 100)	
12	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
13	70008054	1	Piston	
14	See Note	NSS	O-Ring (Note: Use Item 100)	
15	See Note	NSS	Ring, Back Up (Note: Use Item 100)	
16	70008055	1	Piston	
17	See Note	NSS	Seal (Note: Use Item 100)	
18	See Note	NSS	Ring, Wear (Note: Use Item 100)	
19	See Note	NSS	O-Ring (Note: Use Item 100)	
20	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
21	70008056	1	Spacer	
22	70008057	1	Spacer	
23	70008058	2	Setscrew M8 x 8	
24	70006803	12	Capscrew M12	
25	2220883	2	Plug, O-Ring	
26	4641298	1	Valve Assembly	
26A	7011359	1	Cartridge, Valve	
26A	2900789	1	Seal Kit - 7011359 Valve	
26B	4641162	1	Cartridge, Valve (was p/n 7011360)	
26B	2900770	1	Seal Kit - 7011360 & 4641162 Valve	
26C	7011361	1	Cartridge, Flow-Through Valve	
26C	7011346	1	Seal Kit - 7011361 Valve	
26D	70000778	1	O-Ring	
26E	70000777	1	O-Ring	
27	70008059	4	Capscrew 5/16	
28	70008060	4	Wear Pad	
29	70008061	8	Capscrew M10 x 20	
30	See Note	NSS	Dust Cap (Note: Not Availble for Purchase)	
31	See Note	NSS	Dust Cap (Note: Not Availble for Purchase)	
32	70008062	1	Fitting	
33	70008063	1	Fitting	
34	70008064	1	Fitting	
35	See Note	NSS	Dust Cap (Note: Not Availble for Purchase)	
36	70008065	1	Bracket	
37	70007519	4	Capscrew M12 x 50	
38	0961951	2	Bushing	

SECTION 6 - CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
39	70006731	1	Capscrew M10 x 12	
100	70008066	2	Seal Kit (Includes Items 5, 7-12, 14, 15 & 17 - 20)	
		Ref	Note: Two kits required to rebuild this double barreled cylinder - One kit required for each barrel of the cylinder.	

SECTION 7 - HYDRAULIC

FIGURE 7-1. HYDRAULIC DIAGRAM - BOOM (WITH REXROTH PUMPS)



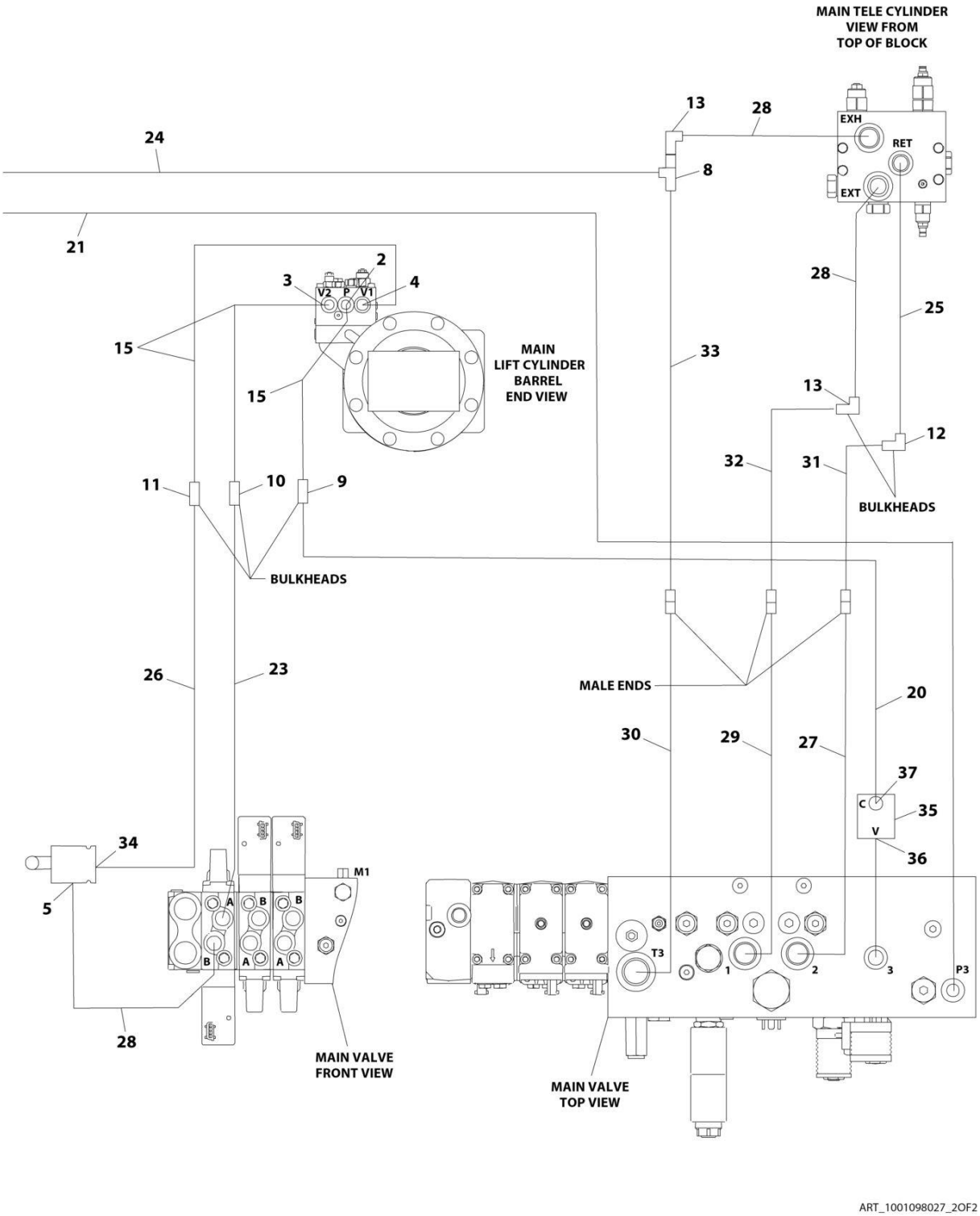
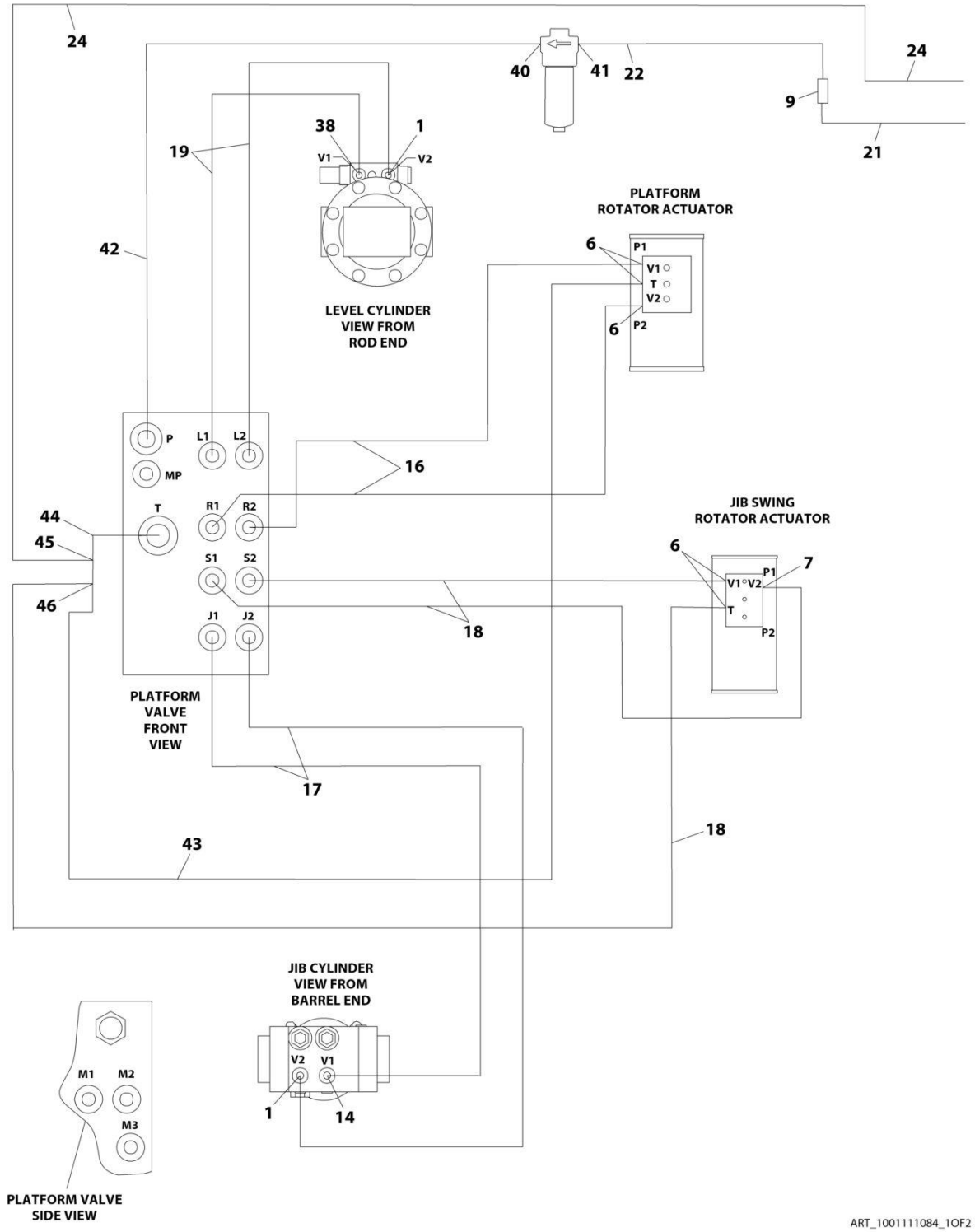

MAIN TELE CYLINDER
VIEW FROM
TOP OF BLOCK
EXH
RET
EXT
MAIN
LIFT CYLINDER
BARREL
END VIEW
V2
P
V1
BULKHEADS
BULKHEADS
MALE ENDS
MAIN VALVE
FRONT VIEW
MAIN VALVE
TOP VIEW
M1
T3
P3
C
V
ART_1001098027_2OF2

FIGURE 7-1. HYDRAULIC DIAGRAM - BOOM (WITH REXROTH PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1283457	Ref	HYDRAULIC DIAGRAM - BOOM (WITH REXROTH PUMPS)	L
	1001098027	Ref	Hydraulic Diagram - Tower/Upper Boom	B
1	2110404	2	Fitting, Straight ORFS/ORB	
2	2110610	1	Fitting, Straight ORFS/ORB	
3	2110810	1	Fitting, Straight ORFS/ORB	
4	2111010	1	Fitting, Straight ORFS/ORB	
5	2111212	1	Fitting, Straight ORFS/ORB	
6	2150404	5	Fitting, 45 ORFS/ORB	
7	2170204	1	Fitting, 90 ORFS/ORB	
8	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
9	2171306	2	Fitting, 45 ORFS/ORB	
10	2171308	1	Fitting, 45 ORFS/ORB	
11	2171310	1	Fitting, 45 ORFS/ORB	
12	2171210	1	Fitting, 90 ORFS/ORB	
13	2171212	2	Fitting, 90 ORFS/ORB	
14	2180830	1	Fitting, Straight ORFS/ORB	
15	2720516	1	Hose	
16	2753545	2	Hose	
17	2753717	2	Hose	
18	2753716	3	Hose	
19	2753897	2	Hose	
20	2753978	1	Hose	
21	2754123	1	Hose	
22	2754124	1	Hose	
23	2753985	1	Hose	
24	2753986	1	Hose	
25	2753987	1	Hose	
26	2753994	1	Hose	
27	2753993	1	Hose	
28	2753998	3	Hose	
29	2754002	1	Hose	
30	2754003	1	Hose	
31	2754010	1	Hose	
32	2754011	1	Hose	
33	2753999	1	Hose	
34	2111012	1	Fitting, Straight ORFS/ORB	
35	4641372	1	Valve, Double Check	
35	7027284	1	Cartridge	
35	7011346	1	Seal Kit - 7027284 Cartridge	
35	7027285	1	Cartridge	
35	7011311	1	Seal Kit - 7027285 Cartridge	
36	2221123	1	Fitting, Straight S FSORFS/ORB	
37	2130606	1	Fitting, 90 ORFS/ORB	
38	2180830	1	Fitting, Straight ORFS/ORB	
40	2110612	1	Fitting, Straight ORFS/ORB	
41	2130612	1	Fitting, 90 ORFS/ORB	
42	2717059	1	Hose	
43	2754288	1	Hose	
44	2170708	1	Fitting, Swivel Nut Run Tee ORFS/FSORFS/ORFS	
45	1001097820	1	Fitting, Adapter ORFS/FSORFS	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	2170704	1	Fitting, Swivel Nut Run Tee ORFS/FSORFS/ORFS	

FIGURE 7-2. HYDRAULIC DIAGRAM - BOOM (WITH SAUER PUMPS)



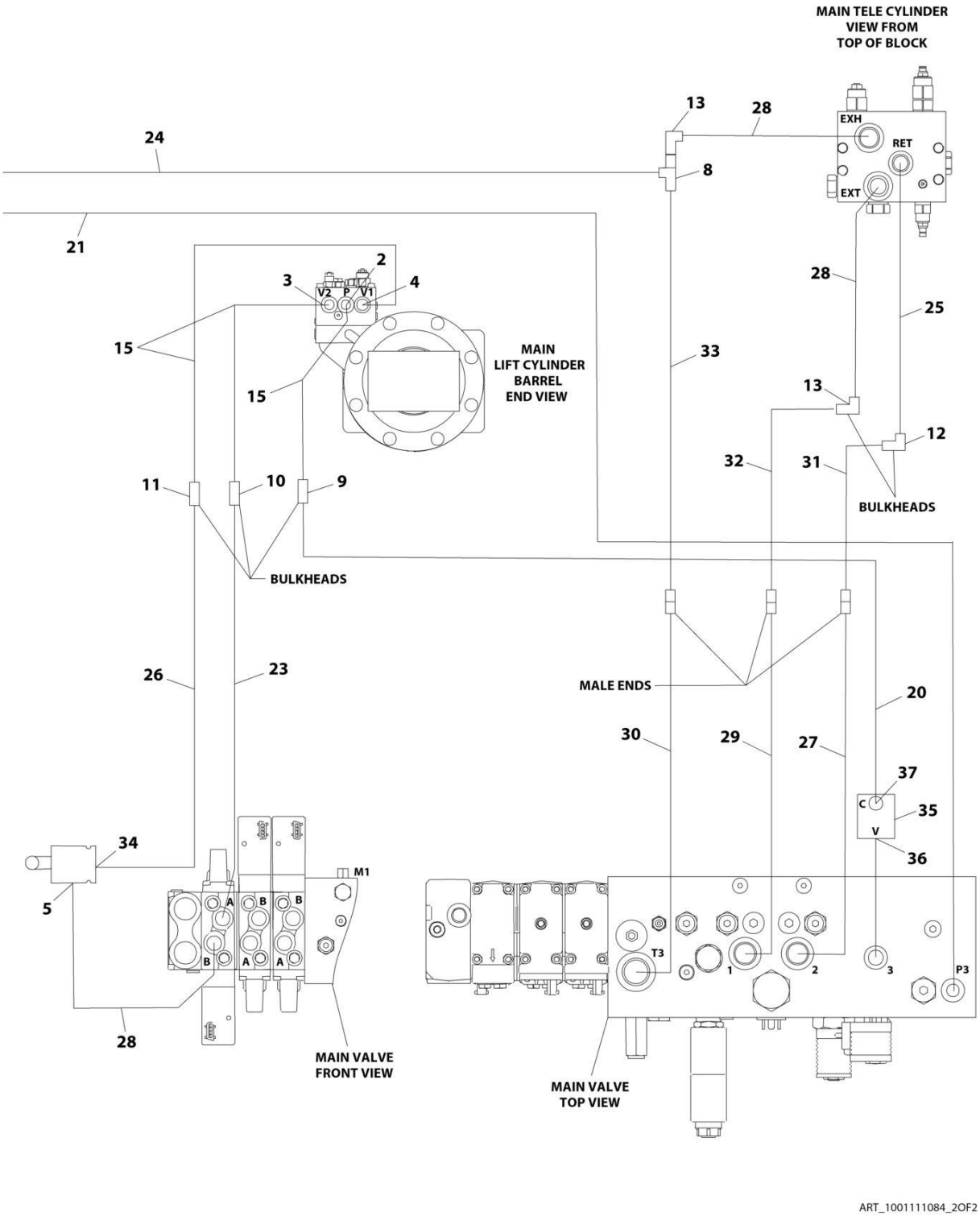
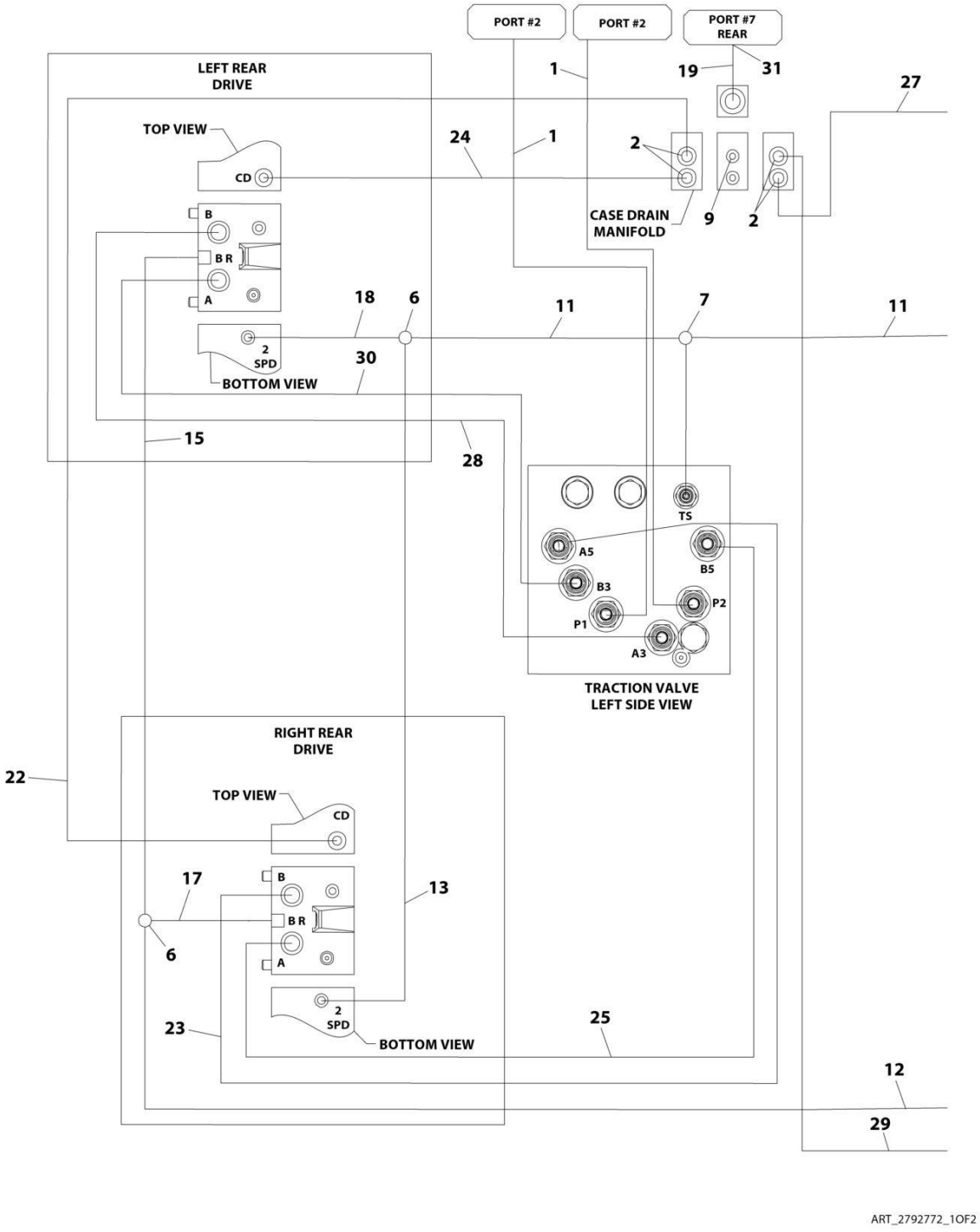

MAIN TELE CYLINDER
VIEW FROM
TOP OF BLOCK
EXH
RET
EXT
MAIN
LIFT CYLINDER
BARREL
END VIEW
BULKHEADS
BULKHEADS
MALE ENDS
MAIN VALVE
FRONT VIEW
MAIN VALVE
TOP VIEW
V2
P
V1
M1
T3
P3
ART_1001111084_2OF2

FIGURE 7-2. HYDRAULIC DIAGRAM - BOOM (WITH SAUER PUMPS)

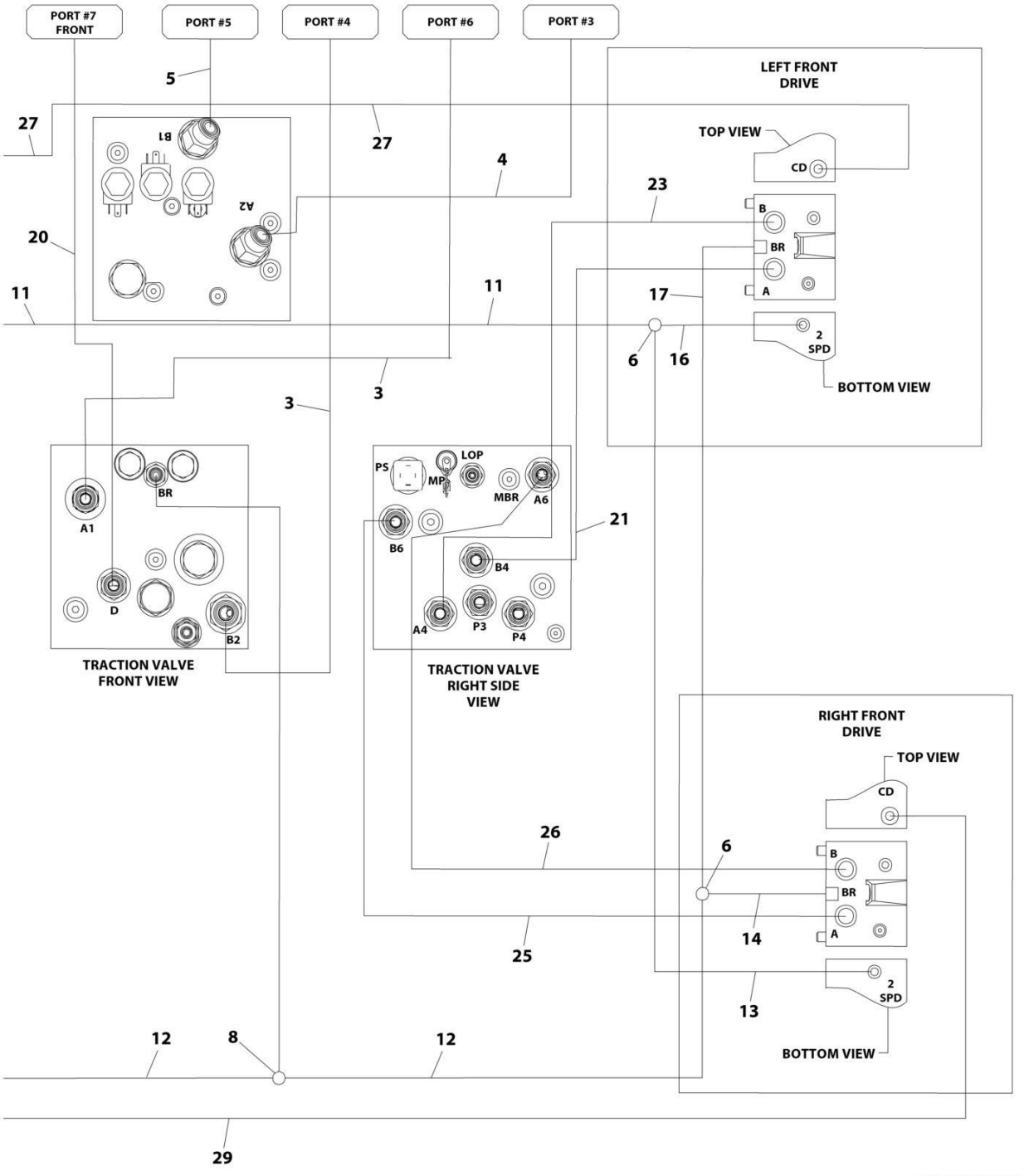
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - BOOM (WITH SAUER PUMPS)	L
	1001111084	Ref	Hydraulic Diagram - Tower/Upper Boom	B
1	2110404	2	Fitting, Straight ORFS/ORB	
2	2110610	1	Fitting, Straight ORFS/ORB	
3	2110810	1	Fitting, Straight ORFS/ORB	
4	2111010	1	Fitting, Straight ORFS/ORB	
5	2111212	1	Fitting, Straight ORFS/ORB	
6	2150404	5	Fitting, 45 ORFS/ORB	
7	2170204	1	Fitting, 90 ORFS/ORB	
8	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
9	2171306	2	Fitting, 45 ORFS/ORB	
10	2171308	1	Fitting, 45 ORFS/ORB	
11	2171310	1	Fitting, 45 ORFS/ORB	
12	2171210	1	Fitting, 90 ORFS/ORB	
13	2171212	2	Fitting, 90 ORFS/ORB	
14	2180830	1	Fitting, Straight ORFS/ORB	
15	2720516	1	Hose	
16	2753545	2	Hose	
17	2753717	2	Hose	
18	2753716	3	Hose	
19	2753897	2	Hose	
20	2753978	1	Hose	
21	2754123	1	Hose	
22	2754124	1	Hose	
23	2753985	1	Hose	
24	2753986	1	Hose	
25	2753987	1	Hose	
26	2753994	1	Hose	
27	2753993	1	Hose	
28	2753998	3	Hose	
29	2754002	1	Hose	
30	2754003	1	Hose	
31	2754010	1	Hose	
32	2754011	1	Hose	
33	2753999	1	Hose	
34	2111012	1	Fitting, Straight ORFS/ORB	
35	4641372	1	Valve, Double Check	
35	7027284	1	Cartridge	
35	7011346	1	Seal Kit - 7027284 Cartridge	
35	7027285	1	Cartridge	
35	7011311	1	Seal Kit - 7027285 Cartridge	
36	2221123	1	Fitting, Straight S FSORFS/ORB	
37	2130606	1	Fitting, 90 ORFS/ORB	
38	2180830	1	Fitting, Straight ORFS/ORB	
40	2110612	1	Fitting, Straight ORFS/ORB	
41	2130612	1	Fitting, 90 ORFS/ORB	
42	2717059	1	Hose	
43	2754288	1	Hose	
44	2170708	1	Fitting, Swivel Nut Run Tee ORFS/FSORFS/ORFS	
45	1001097820	1	Fitting, Adapter ORFS/FSORFS	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	2170704	1	Fitting, Swivel Nut Run Tee ORFS/FSORFS/ORFS	

FIGURE 7-3. HYDRAULIC DIAGRAM - DRIVE (WITH REXROTH PUMPS)



ART_2792772_1OF2


PORT #7 FRONT
PORT #5
PORT #4
PORT #6
PORT #3
LEFT FRONT DRIVE
TOP VIEW
CD
B
BR
A
2 SPD
BOTTOM VIEW
B1
A2
TRACTION VALVE FRONT VIEW
A1
BR
D
B2
TRACTION VALVE RIGHT SIDE VIEW
PS
MP
LOP
MBR
A6
B6
B4
A4
P3
P4
RIGHT FRONT DRIVE
TOP VIEW
CD
B
BR
A
2 SPD
BOTTOM VIEW
5
27
4
20
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3
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17
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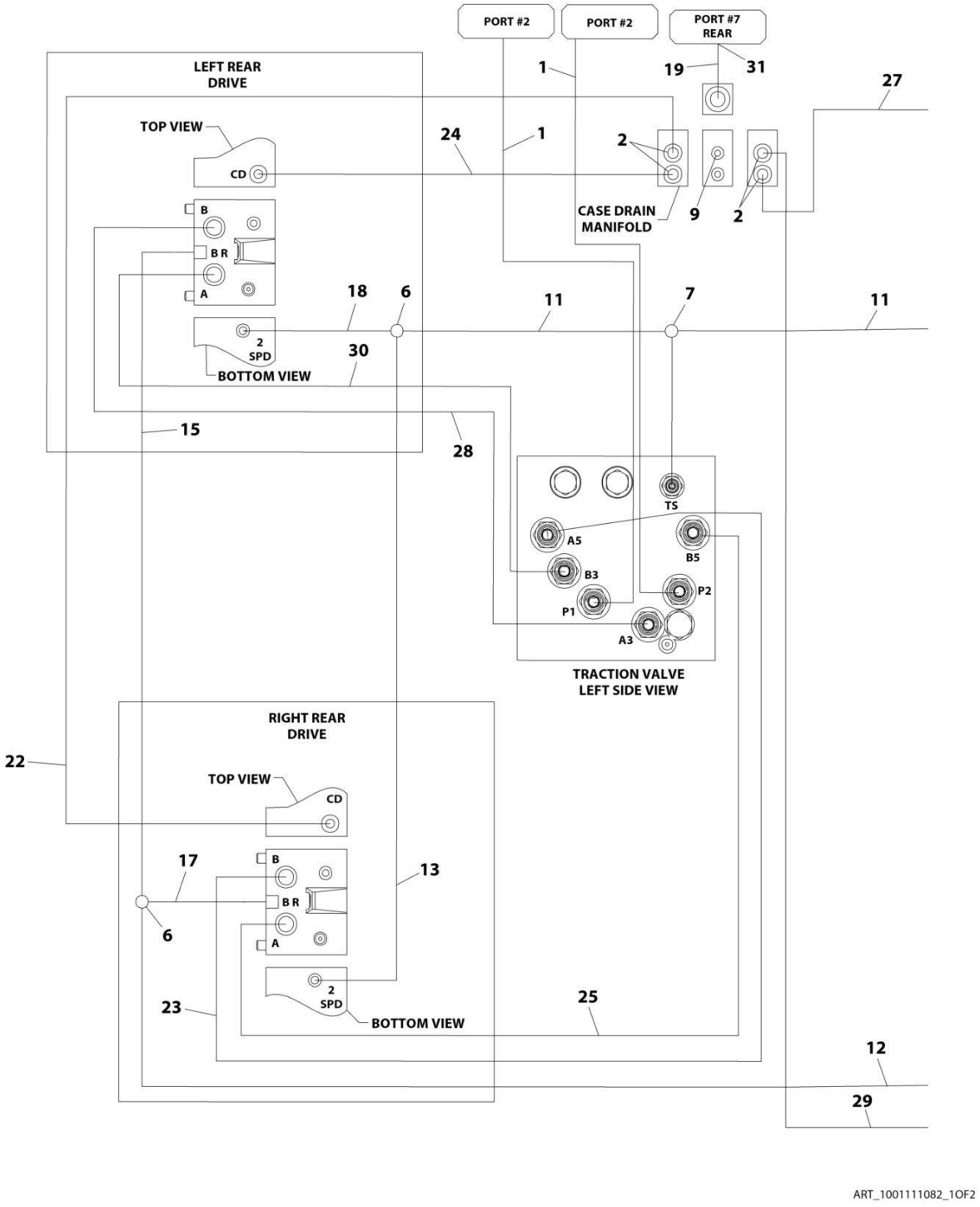
ART_2792772_2OF2

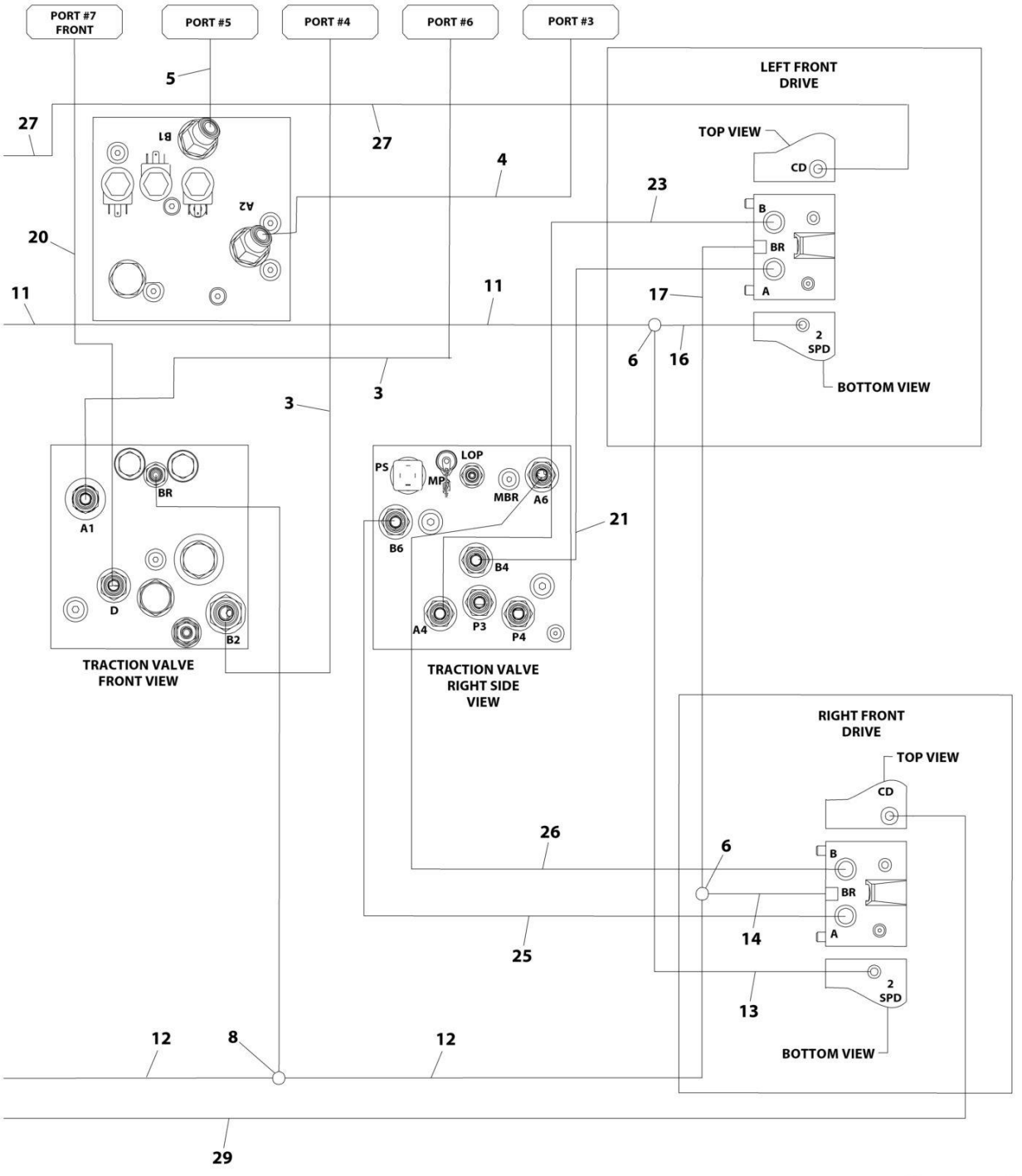
FIGURE 7-3. HYDRAULIC DIAGRAM - DRIVE (WITH REXROTH PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1283457	Ref	HYDRAULIC DIAGRAM - DRIVE	L
	2792772	Ref	Hydraulic Diagram - Drive Circuit	F
1	2753685	2	Hose	
2	2110808	4	Fitting, Straight ORFS/ORB	
3	2753703	2	Hose	
4	2753764	1	Hose	
5	2753768	1	Hose	
6	2170504	4	Fitting, Tee ORFS	
7	2170704	1	Fitting, Tee ORFS/ORB/ORFS	
8	2170804	1	Fitting, Tee ORFS/ORB/ORFS	
9	2220235	1	Plug	
11	2753541	2	Hose	
12	2753545	2	Hose	
13	2753677	2	Hose	
14	2753714	1	Hose	
15	2753713	1	Hose	
16	2753716	1	Hose	
17	2753715	2	Hose	
18	2753552	1	Hose	
19	2753752	1	Hose	
20	2753582	1	Hose	
21	2753756	1	Hose	
22	2753747	1	Hose	
23	2753757	2	Hose	
24	2753748	1	Hose	
25	2753759	2	Hose	
26	2753760	1	Hose	
27	2753749	1	Hose	
28	2753761	1	Hose	
29	2753750	1	Hose	
30	2753762	1	Hose	
31	2110812	1	Fitting, Straight ORFS/ORB	

FIGURE 7-4. HYDRAULIC DIAGRAM - DRIVE (WITH SAUER PUMPS)



ART_1001111082_1OF2


PORT #7 FRONT
PORT #5
PORT #4
PORT #6
PORT #3
LEFT FRONT DRIVE
TOP VIEW
CD
B
BR
A
2 SPD
BOTTOM VIEW
B1
A2
TRACTION VALVE FRONT VIEW
A1
BR
D
B2
TRACTION VALVE RIGHT SIDE VIEW
PS
MP
LOP
MBR
A6
B6
B4
A4
P3
P4
RIGHT FRONT DRIVE
TOP VIEW
CD
B
BR
A
2 SPD
BOTTOM VIEW
5
27
4
20
11
23
17
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12
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29
ART_1001111082_2OF2

FIGURE 7-4. HYDRAULIC DIAGRAM - DRIVE (WITH SAUER PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - DRIVE (WITH SAUER PUMPS)	L
	1001111082	Ref	Hydraulic Diagram - Drive Circuit	C
1	2753685	2	Hose	
2	2110808	4	Fitting, Straight ORFS/ORB	
3	2753703	2	Hose	
4	2753764	1	Hose	
5	2753768	1	Hose	
6	2170504	4	Fitting, Tee ORFS	
7	2170704	1	Fitting, Tee ORFS/ORB/ORFS	
8	2170804	1	Fitting, Tee ORFS/ORB/ORFS	
9	2220235	1	Plug	
11	2753541	2	Hose	
12	2753545	2	Hose	
13	2753677	2	Hose	
14	2753714	1	Hose	
15	2753713	1	Hose	
16	2753716	1	Hose	
17	2753715	2	Hose	
18	2753552	1	Hose	
19	2753752	1	Hose	
20	2753582	1	Hose	
21	2753756	1	Hose	
22	2753747	1	Hose	
23	2753757	2	Hose	
24	2753748	1	Hose	
25	2753759	2	Hose	
26	2753760	1	Hose	
27	2753749	1	Hose	
28	2753761	1	Hose	
29	2753750	1	Hose	
30	2753762	1	Hose	
31	2110812	1	Fitting, Straight ORFS/ORB	

FIGURE 7-5. HYDRAULIC DIAGRAM - OSCILLATING AXLE (WITH REXROTH PUMPS)

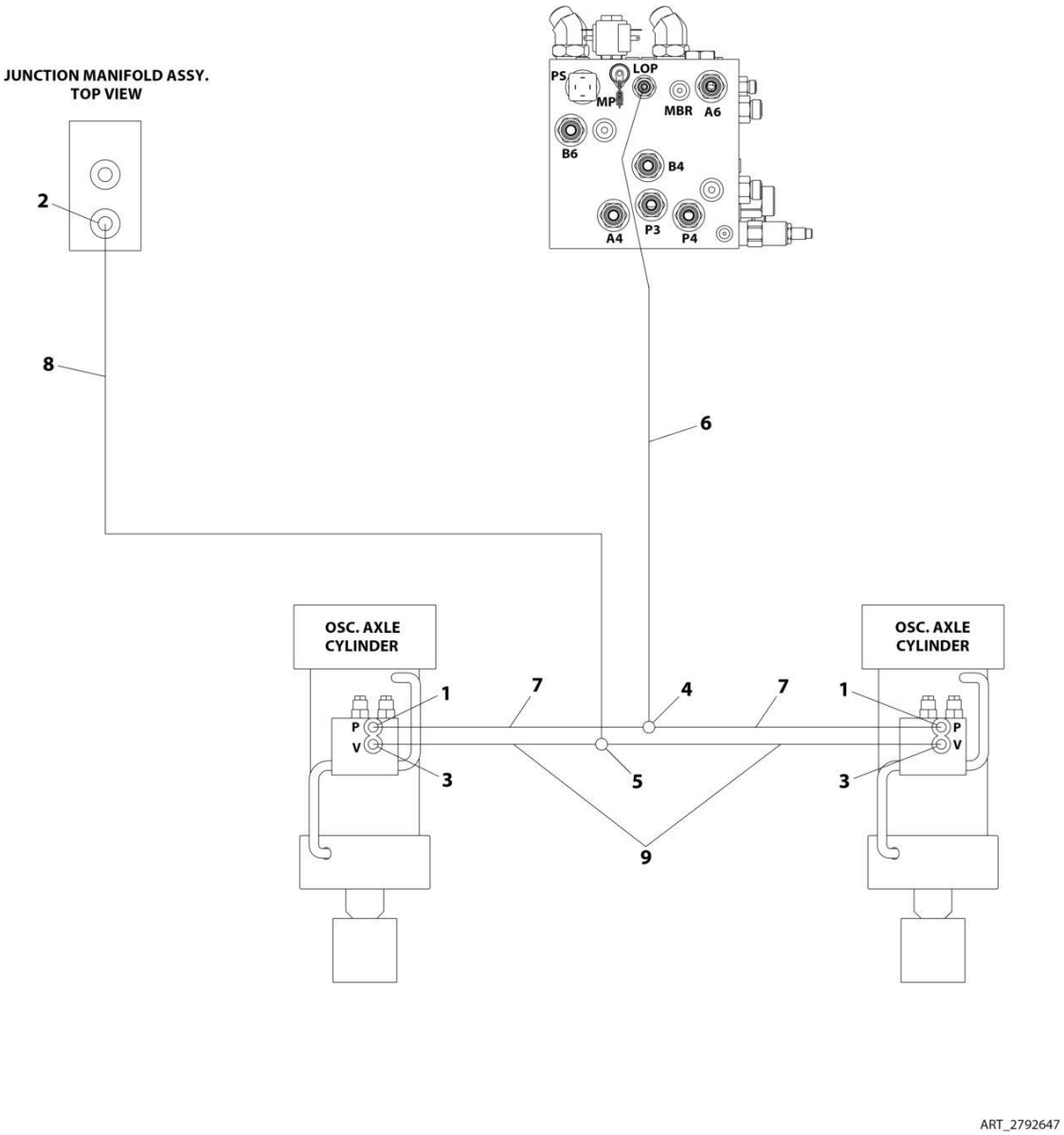


FIGURE 7-5. HYDRAULIC DIAGRAM - OSCILLATING AXLE (WITH REXROTH PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1283457	Ref	HYDRAULIC DIAGRAM - OSCILLATING AXLE	L
	2792647	Ref	Hydraulic Diagram - Oscillating Axle	4
1	2110406	2	Fitting, Straight ORFS/ORB	
2	2110604	1	Fitting, Straight ORFS/ORB	
3	2110606	2	Fitting, Straight ORFS/ORB	
4	2170504	1	Fitting, Tee ORFS	
5	2170506	1	Fitting, Tee ORFS	
6	2753726	1	Hose	
7	2753719	2	Hose	
8	2753727	1	Hose	
9	2753729	2	Hose	

FIGURE 7-6. HYDRAULIC DIAGRAM - OSCILLATING AXLE (WITH SAUER PUMPS)

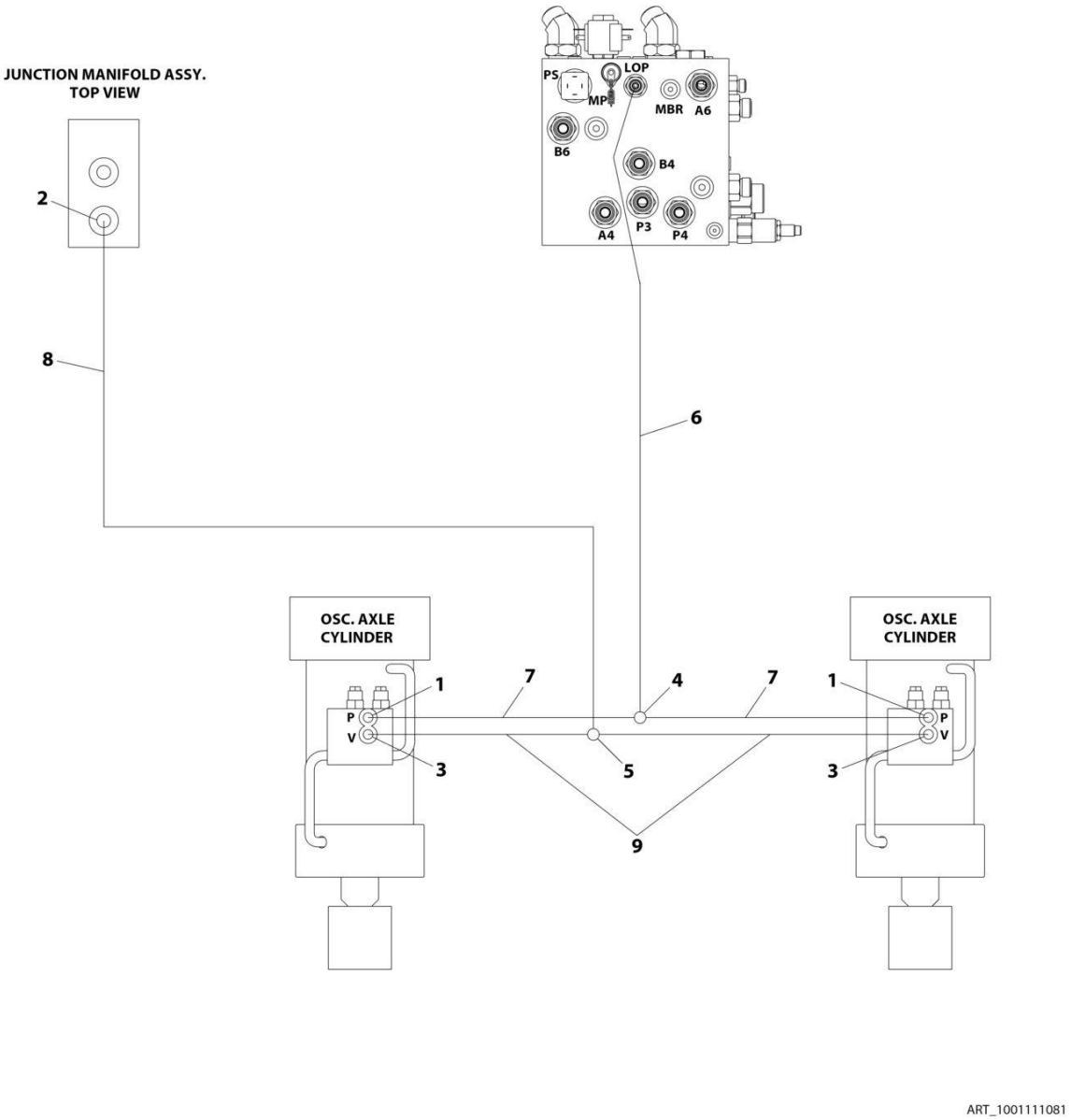


FIGURE 7-6. HYDRAULIC DIAGRAM - OSCILLATING AXLE (WITH SAUER PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - OSCILLATING AXLE (WITH SAUER PUMPS)	L
	1001111081	Ref	Hydraulic Diagram - Oscillating Axle	1
1	2110406	2	Fitting, Straight ORFS/ORB	
2	2110604	1	Fitting, Straight ORFS/ORB	
3	2110606	2	Fitting, Straight ORFS/ORB	
4	2170504	1	Fitting, Tee ORFS	
5	2170506	1	Fitting, Tee ORFS	
6	2753726	1	Hose	
7	2753719	2	Hose	
8	2753727	1	Hose	
9	2753729	2	Hose	

FIGURE 7-7. HYDRAULIC DIAGRAM - STEER (WITH REXROTH PUMPS)

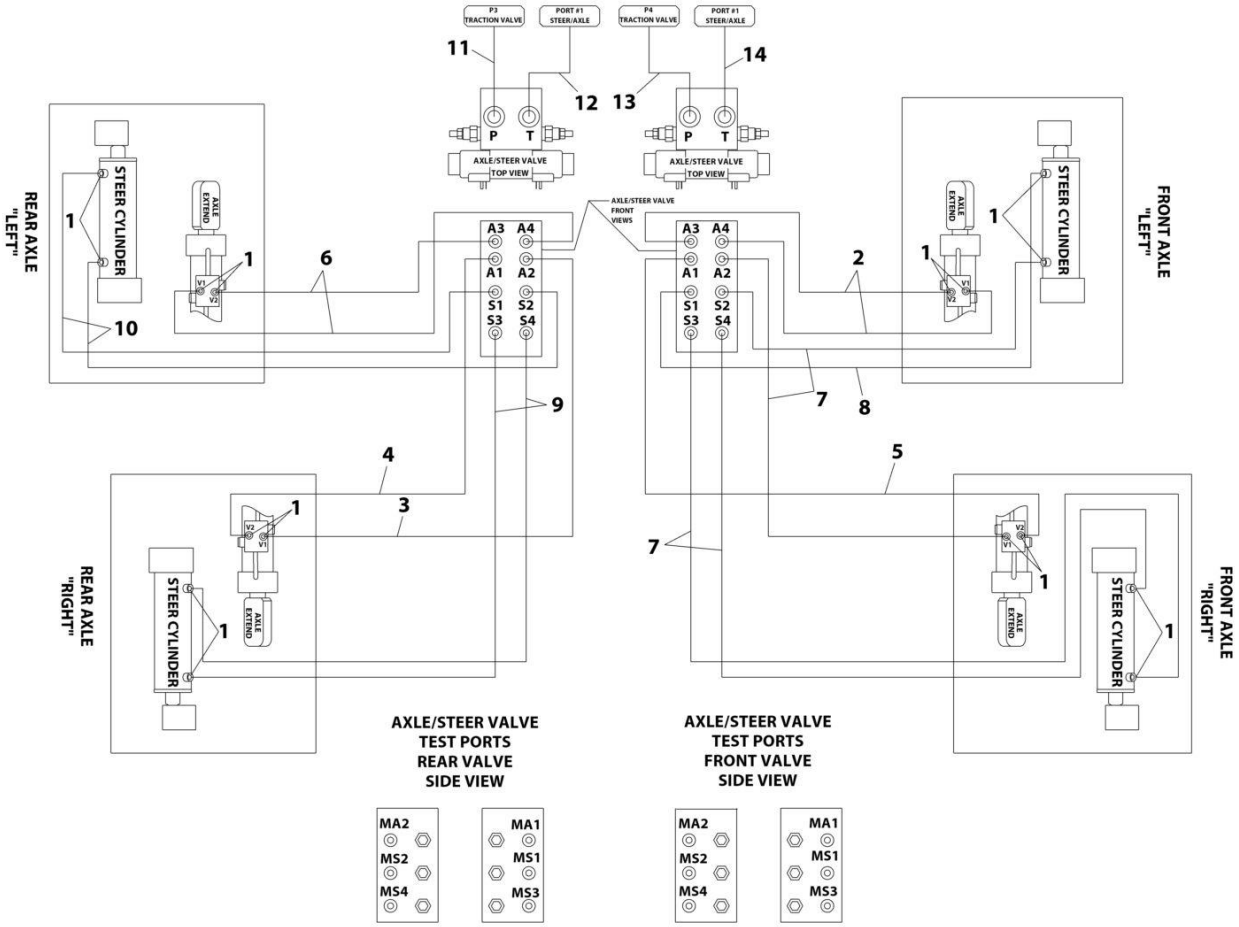
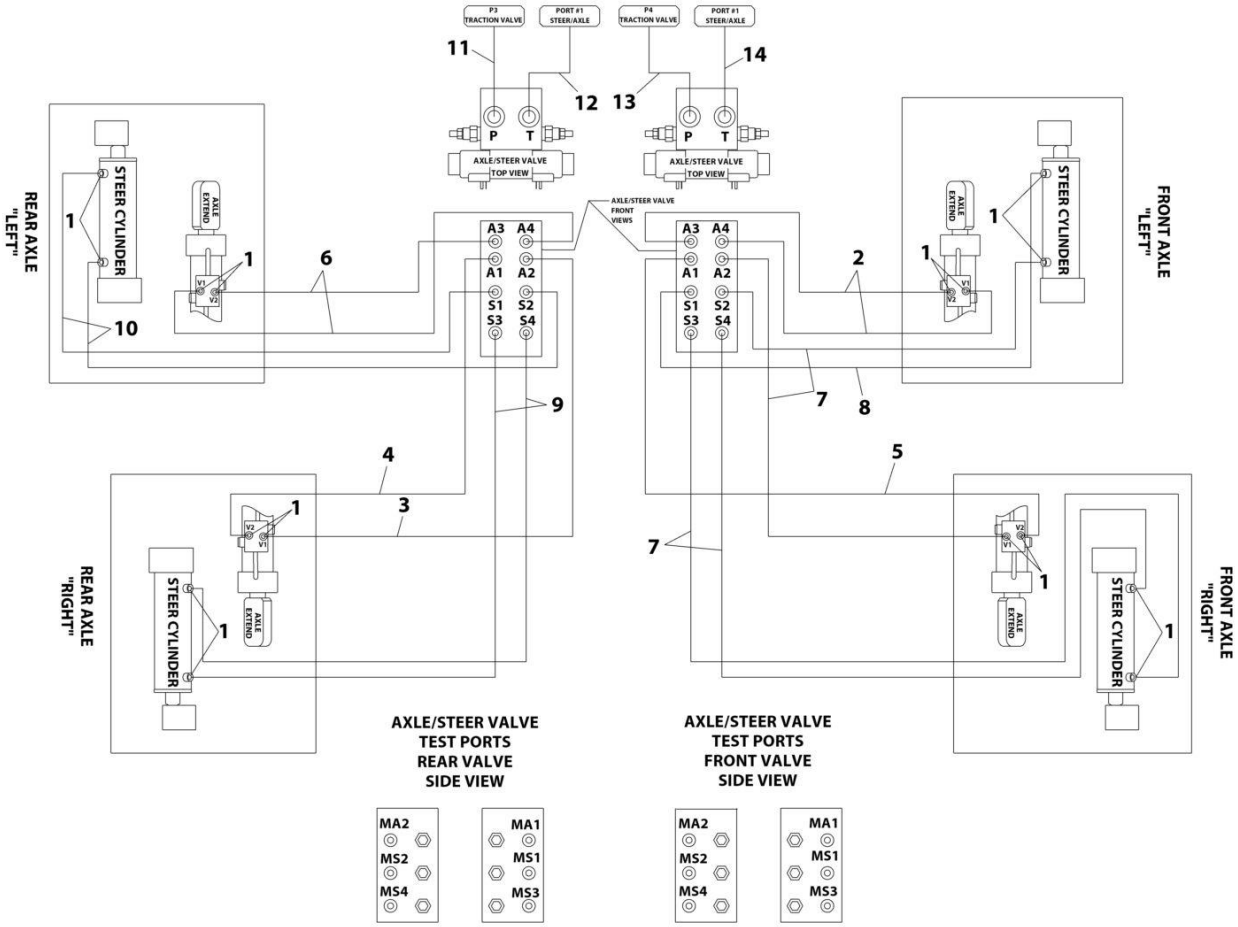


FIGURE 7-7. HYDRAULIC DIAGRAM - STEER (WITH REXROTH PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1283457	Ref	HYDRAULIC DIAGRAM - STEER	L
	2792773	Ref	Hydraulic Diagram - Steer	2
1	2130606	16	Fitting, 90 ORFS/ORB	
2	2753732	2	Hose	
3	2753733	1	Hose	
4	2753728	1	Hose	
5	2753734	1	Hose	
6	2753735	2	Hose	
7	2753736	4	Hose	
8	2753737	1	Hose	
9	2753738	2	Hose	
10	2753739	2	Hose	
11	2753753	1	Hose	
12	2753742	1	Hose	
13	2753754	1	Hose	
14	2753743	1	Hose	

FIGURE 7-8. HYDRAULIC DIAGRAM - STEER (WITH SAUER PUMPS)

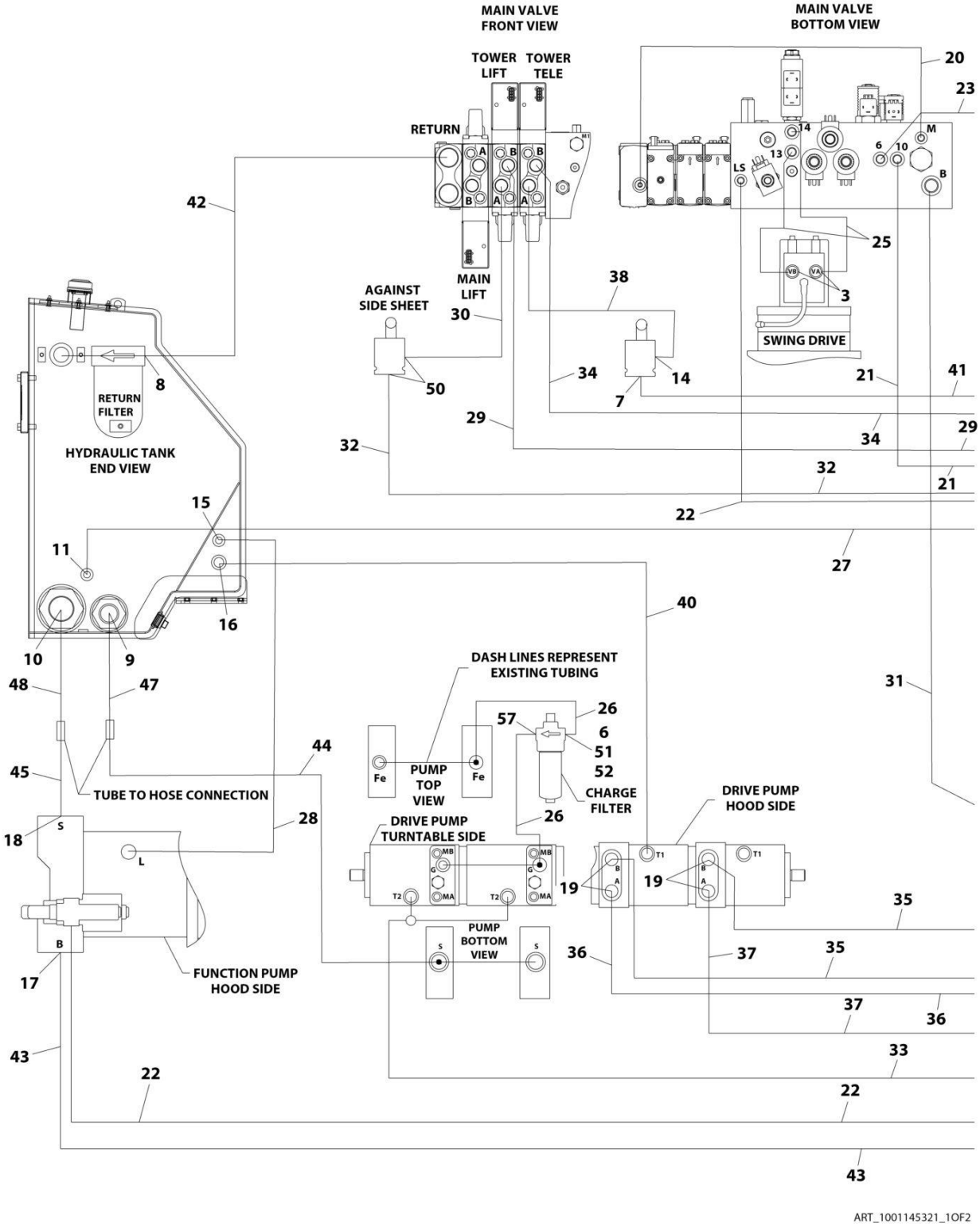


ART_1001111083

FIGURE 7-8. HYDRAULIC DIAGRAM - STEER (WITH SAUER PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - STEER (WITH SAUER PUMPS)	L
	1001111083	Ref	Hydraulic Diagram - Steer	1
1	2130606	16	Fitting, 90 ORFS/ORB	
2	2753732	2	Hose	
3	2753733	1	Hose	
4	2753728	1	Hose	
5	2753734	1	Hose	
6	2753735	2	Hose	
7	2753736	4	Hose	
8	2753737	1	Hose	
9	2753738	2	Hose	
10	2753739	2	Hose	
11	2753753	1	Hose	
12	2753742	1	Hose	
13	2753754	1	Hose	
14	2753743	1	Hose	

FIGURE 7-9. HYDRAULIC DIAGRAM - TURNTABLE (DEUTZ TD2011 ENGINES WITH REXROTH PUMPS)



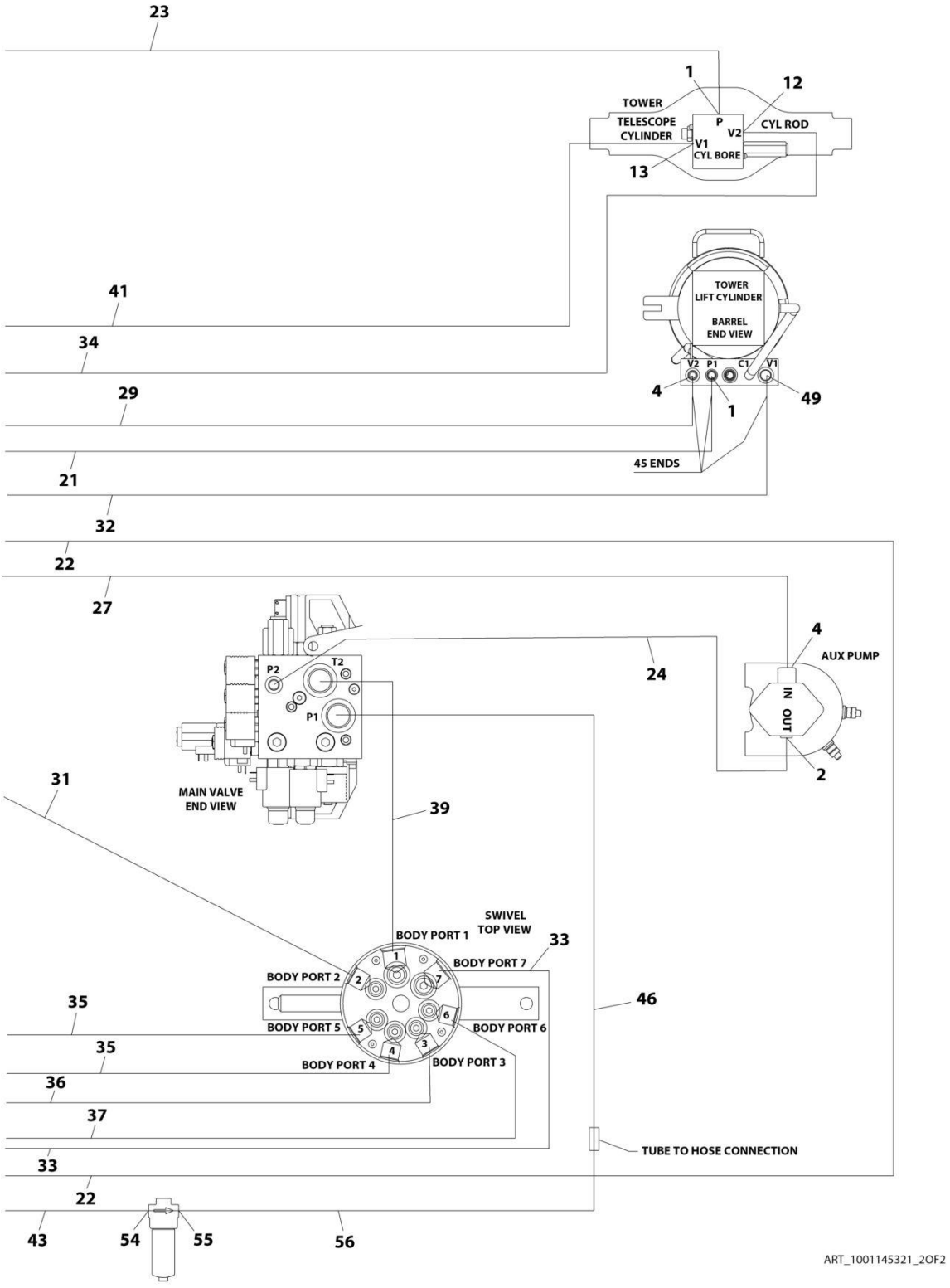
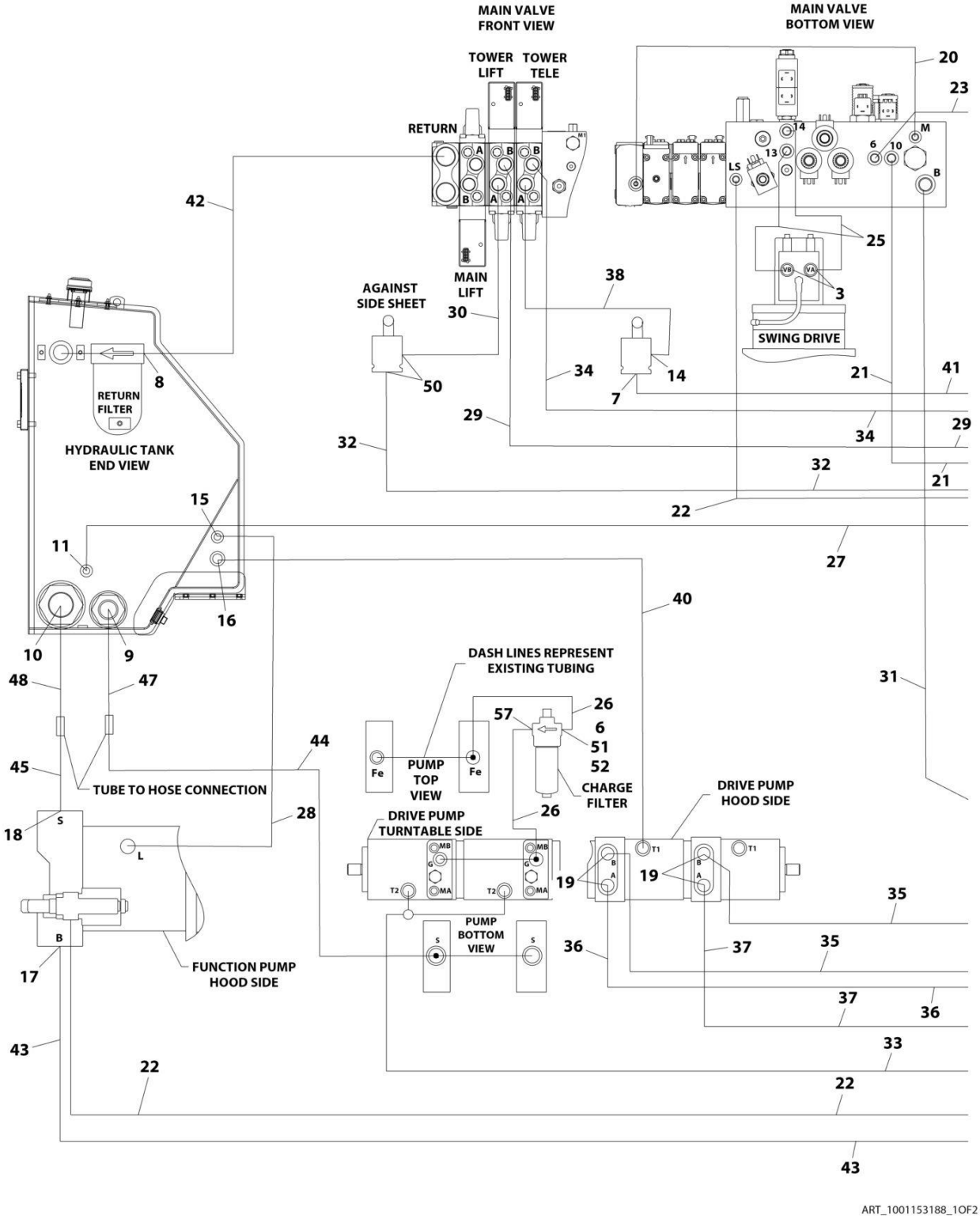

23
1
12
TOWER
TELESCOPE CYLINDER
P
V2
CYL ROD
V1
CYL BORE
13
41
34
29
21
32
22
27
TOWER LIFT CYLINDER
BARREL END VIEW
V2 P1 C1 V1
4
1
49
45 ENDS
24
4
AUX PUMP
IN
OUT
2
P2
T2
P1
MAIN VALVE END VIEW
31
39
SWIVEL TOP VIEW
BODY PORT 1
BODY PORT 2
BODY PORT 7
BODY PORT 5
BODY PORT 6
BODY PORT 4
BODY PORT 3
33
46
35
35
36
37
33
22
TUBE TO HOSE CONNECTION
43
54
55
56
ART_1001145321_2OF2

FIGURE 7-9. HYDRAULIC DIAGRAM - TURNTABLE (DEUTZ TD2011 ENGINES WITH REXROTH PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1283457	Ref	HYDRAULIC DIAGRAM - TURNTABLE (DEUTZ TD2011 ENGINES WITH REXROTH PUMPS)	L
	1001145321	Ref	Hydraulic Diagram - Turntable	B
1	2110404	1	Fitting, Straight ORFS/ORB	
2	2110608	1	Fitting, Straight ORFS/ORB	
3	2110610	2	Fitting, Straight ORFS/ORB	
4	2110808	2	Fitting, Straight ORFS/ORB	
6	2220811	1	Fitting, Reducer ORB/ORB	
7	2111212	1	Fitting, Straight ORFS/ORB	
8	2111620	1	Fitting, Straight ORFS/ORB	
9	2112020	1	Fitting, Straight ORFS/ORB	
10	2113232	1	Fitting, Straight ORFS/ORB	
11	2130808	1	Fitting, 90 ORFS/ORB	
12	2131008	1	Fitting, 90 ORFS/ORB	
13	2131210	1	Fitting, 90 ORFS/ORB	
14	2131212	1	Fitting, 90 ORFS/ORB	
15	2150808	1	Fitting, 45 ORFS/ORB	
16	2151212	1	Fitting, 45 ORFS/ORB	
17	2220478	1	Flange Kit	
18	2220737	1	Flange Kit	
19	2221117	4	Flange Kit	
20	2753546	1	Hose	
21	2753975	1	Hose	
22	2753976	1	Hose	
23	2753977	1	Hose	
24	2753673	1	Hose	
25	2753979	2	Hose	
26	2753746	2	Hose	
27	2753590	1	Hose	
28	2753741	1	Hose	
29	2753984	1	Hose	
30	2753988	1	Hose	
31	2753989	1	Hose	
32	2753990	1	Hose	
33	2753991	1	Hose	
34	2753992	1	Hose	
35	2753995	2	Hose	
36	2753996	1	Hose	
37	2753997	1	Hose	
38	2753843	1	Hose	
39	2753999	1	Hose	
40	2754000	1	Hose	
41	2754001	1	Hose	
42	2754004	1	Hose	
43	2754870	1	Hose	
44	2754006	1	Hose	
45	2754007	1	Hose	
46	1001173889	1	Tube	
47	4568849	1	Tube	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	4568815	1	Tube	
49	2111010	1	Fitting, Straight ORFS/ORB	
50	2111012	AR	Fitting, Straight ORFS/ORB	
51	2170308	1	Fitting, Tee ORFS/ORFS/ORB	
52	2170908	1	Fitting, Cap ORFS	
54	2131620	1	Fitting, 90 ORFS/ORB	
55	2132020	1	Fitting, 90 ORFS/ORB	
56	1001173890	1	Hose	
57	2130812	1	Fitting, 90 ORFS/ORB	

FIGURE 7-10. HYDRAULIC DIAGRAM - TURNTABLE (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES WITH REXROTH PUMPS)



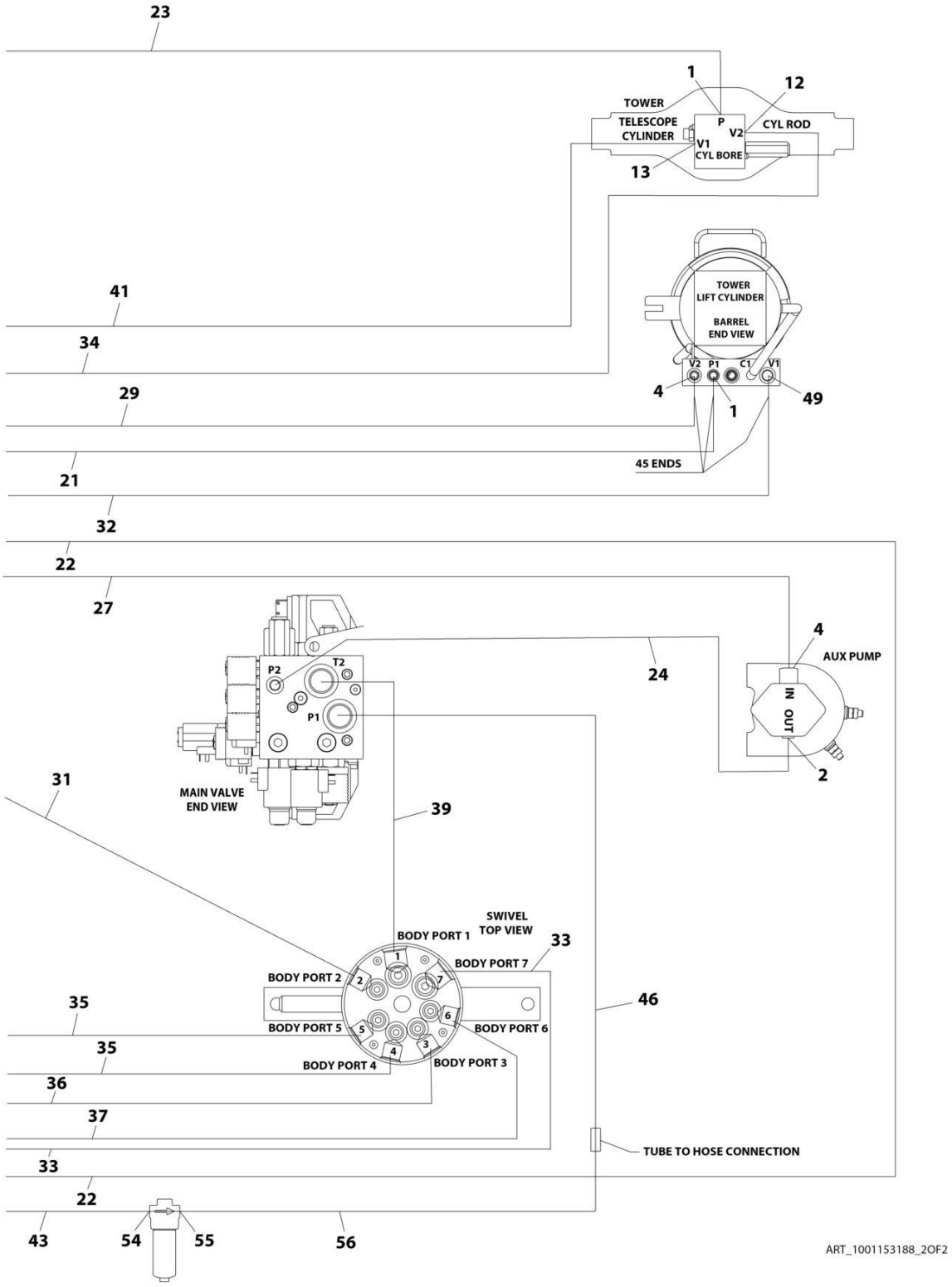
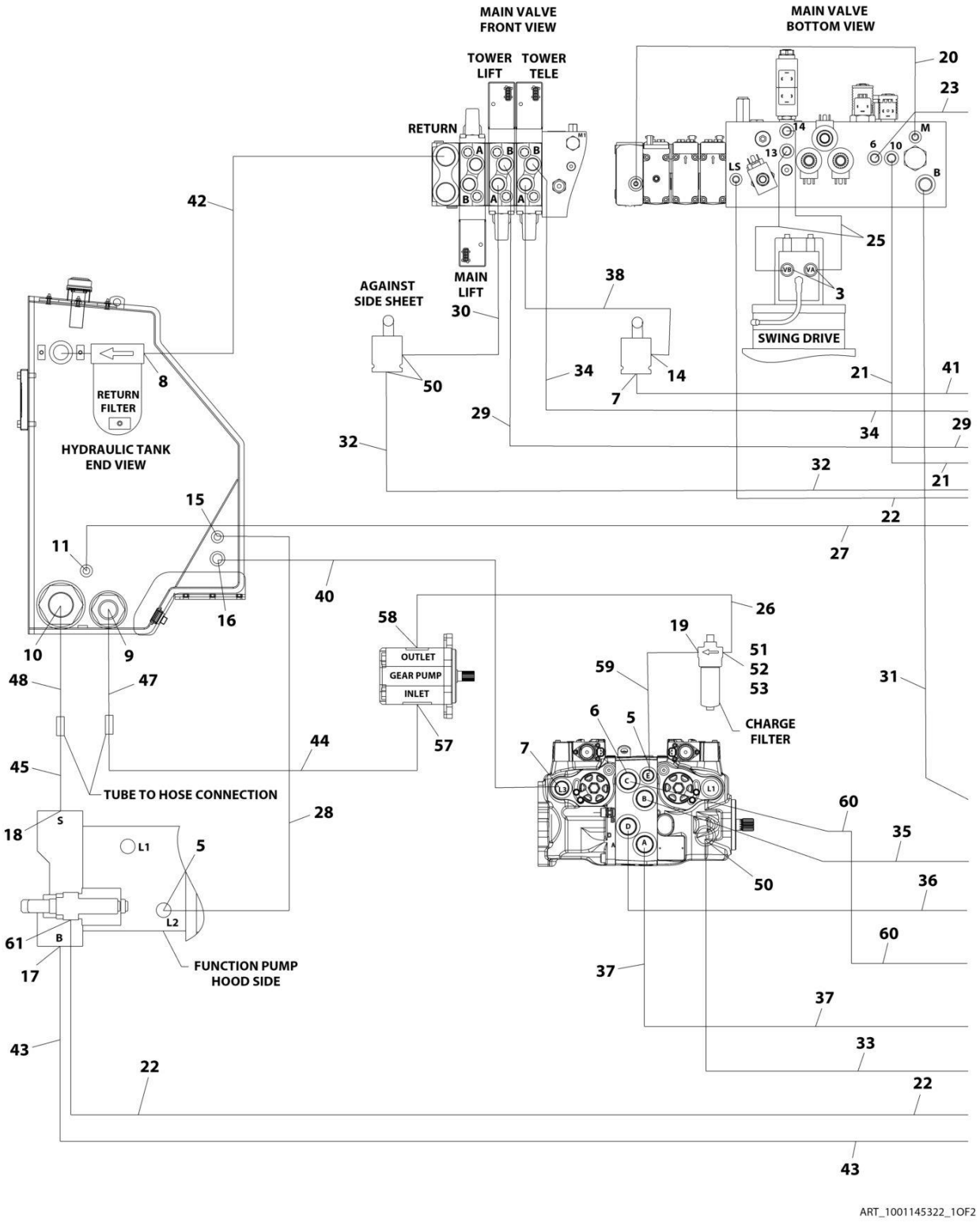

23
1
12
TOWER
TELESCOPE CYLINDER
P
V2
CYL ROD
V1
CYL BORE
13
41
34
29
21
32
22
27
TOWER LIFT CYLINDER
BARREL END VIEW
V2
P1
C1
V1
4
1
49
45 ENDS
24
4
AUX PUMP
IN
OUT
2
P2
T2
P1
MAIN VALVE END VIEW
31
39
SWIVEL TOP VIEW
BODY PORT 1
BODY PORT 7
33
BODY PORT 2
BODY PORT 5
BODY PORT 6
BODY PORT 4
BODY PORT 3
46
35
35
36
37
33
22
TUBE TO HOSE CONNECTION
43
54
55
56
ART_1001153188_2OF2

FIGURE 7-10. HYDRAULIC DIAGRAM - TURNTABLE (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES WITH REXROTH PUMPS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152971	Ref	HYDRAULIC DIAGRAM - TURNTABLE (DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES WITH REXROTH PUMPS)	C
	1001153188	Ref	Hydraulic Diagram - Turntable	B
1	2110404	1	Fitting, Straight ORFS/ORB	
2	2110608	1	Fitting, Straight ORFS/ORB	
3	2110610	2	Fitting, Straight ORFS/ORB	
4	2110808	2	Fitting, Straight ORFS/ORB	
6	2220811	1	Fitting, Reducer ORB/ORB	
7	2111212	1	Fitting, Straight ORFS/ORB	
8	2111620	1	Fitting, Straight ORFS/ORB	
9	2112020	1	Fitting, Straight ORFS/ORB	
10	2113232	1	Fitting, Straight ORFS/ORB	
11	2130808	1	Fitting, 90 ORFS/ORB	
12	2131008	1	Fitting, 90 ORFS/ORB	
13	2131210	1	Fitting, 90 ORFS/ORB	
14	2131212	1	Fitting, 90 ORFS/ORB	
15	2150808	1	Fitting, 45 ORFS/ORB	
16	2151212	1	Fitting, 45 ORFS/ORB	
17	2220478	1	Flange Kit	
18	2220737	1	Flange Kit	
19	2221117	4	Flange Kit	
20	2753546	1	Hose	
21	2753975	1	Hose	
22	2753976	1	Hose	
23	2753977	1	Hose	
24	2753673	1	Hose	
25	2753979	2	Hose	
26	2753746	2	Hose	
27	2753590	1	Hose	
28	2753741	1	Hose	
29	2753984	1	Hose	
30	2753988	1	Hose	
31	2753989	1	Hose	
32	2753990	1	Hose	
33	2753991	1	Hose	
34	2753992	1	Hose	
35	2753995	2	Hose	
36	2753996	1	Hose	
37	2753997	1	Hose	
38	2753843	1	Hose	
39	2753999	1	Hose	
40	2754000	1	Hose	
41	2754001	1	Hose	
42	2754004	1	Hose	
43	2754870	1	Hose	
44	1001153186	1	Hose	
45	2754007	1	Hose	
46	1001173889	1	Tube	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	4568849	1	Tube	
48	4568815	1	Tube	
49	2111010	1	Fitting, Straight ORFS/ORB	
50	2111012	AR	Fitting, Straight ORFS/ORB	
51	2170308	1	Fitting, Tee ORFS/ORFS/ORB	
52	2170908	1	Fitting, Cap ORFS	
54	2131620	1	Fitting, 90 ORFS/ORB	
55	2132020	1	Fitting, 90 ORFS/ORB	
56	1001173890	1	Hose	
57	2130812	1	Fitting, 90 ORFS/ORB	

FIGURE 7-11. HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS) (Prior to SN 0300311787)



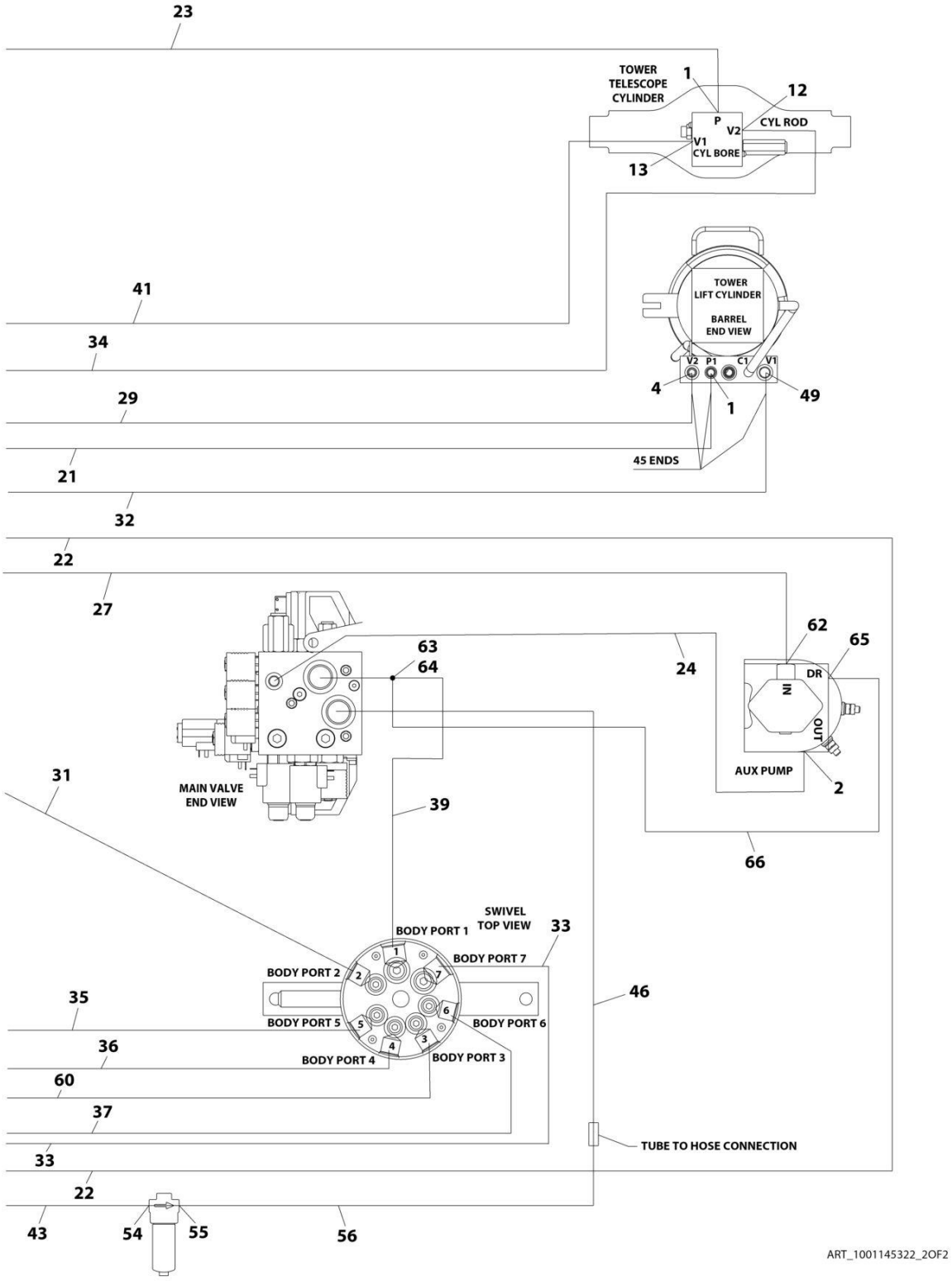
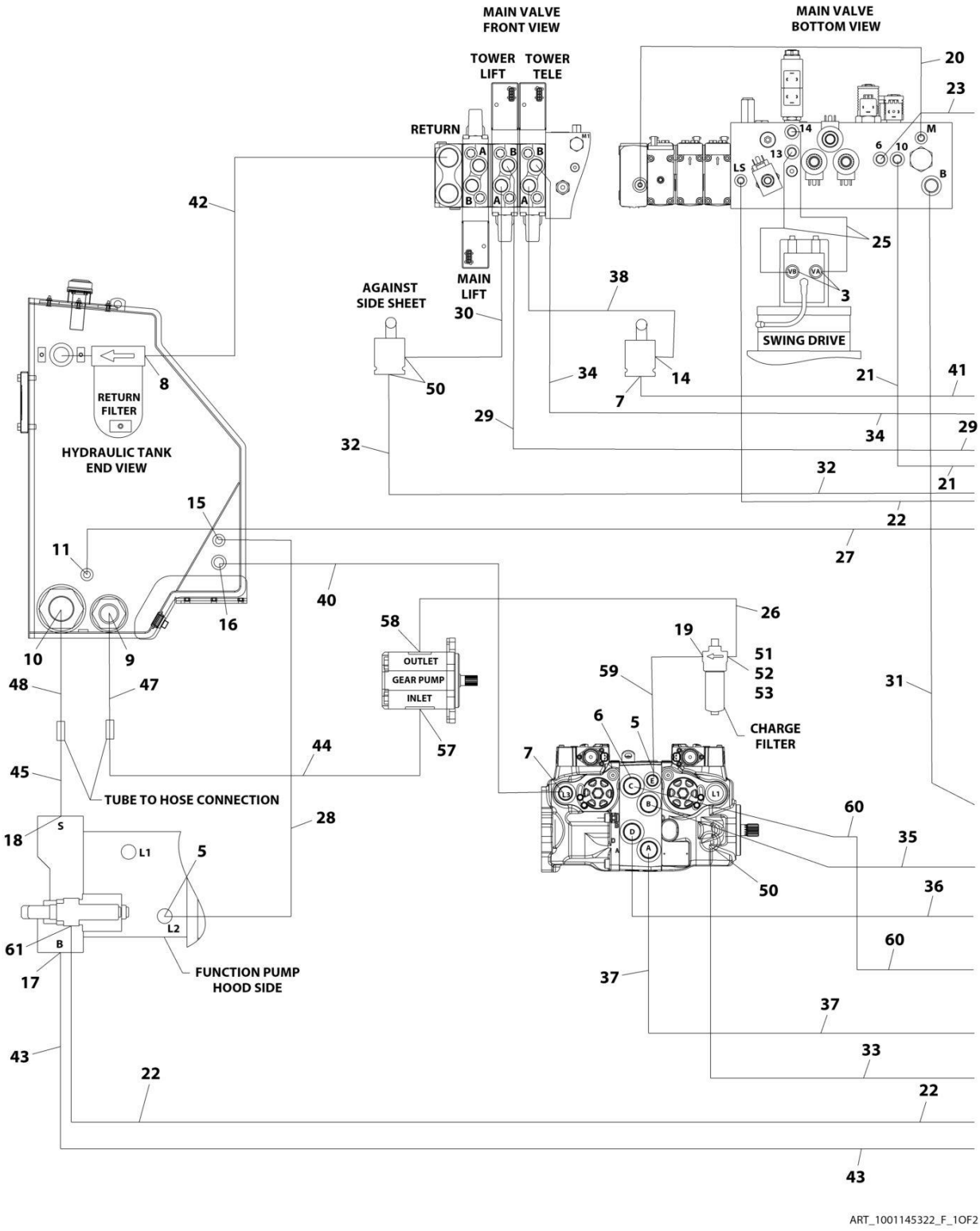

23
TOWER TELESCOPE CYLINDER
1
12
P
V2
CYL ROD
V1
CYL BORE
13
41
34
TOWER LIFT CYLINDER
BARREL END VIEW
V2 P1 C1 V1
4
1
49
29
45 ENDS
21
32
22
27
62
65
63
64
24
DR
IN
OUT
MAIN VALVE END VIEW
AUX PUMP
2
31
39
66
SWIVEL TOP VIEW
33
BODY PORT 1
BODY PORT 7
BODY PORT 2
BODY PORT 6
BODY PORT 5
BODY PORT 4
BODY PORT 3
46
35
36
60
37
TUBE TO HOSE CONNECTION
33
22
43
54
55
56
ART_1001145322_2OF2

FIGURE 7-11. HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS) (Prior to SN 0300311787)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS)	L
	1001145322	Ref	Hydraulic Diagram - Turntable	E
1	2110404	1	Fitting, Straight ORFS/ORB	
2	2110608	1	Fitting, Straight ORFS/ORB	
3	2110610	2	Fitting, Straight ORFS/ORB	
4	2110808	1	Fitting, Straight ORFS/ORB	
5	2110810	2	Fitting, Straight ORFS/ORB	
6	2111016	4	Fitting, Straight ORFS/ORB	
7	2111212	2	Fitting, Straight ORFS/ORB	
8	2111620	1	Fitting, Straight ORFS/ORB	
9	2112020	1	Fitting, Straight ORFS/ORB	
10	2113232	1	Fitting, Straight ORFS/ORB	
11	2130808	1	Fitting, 90 ORFS/ORB	
12	2131008	1	Fitting, 90 ORFS/ORB	
13	2131210	1	Fitting, 90 ORFS/ORB	
14	2131212	1	Fitting, 90 ORFS/ORB	
15	2150808	1	Fitting, 45 ORFS/ORB	
16	2151212	1	Fitting, 45 ORFS/ORB	
17	2220478	1	Flange Kit	
18	1001110604	1	Flange Kit	
19	2130812	1	Fitting, 90 ORFS/ORB	
20	2753546	1	Hose	
21	2753975	1	Hose	
22	2753976	1	Hose	
23	2753977	1	Hose	
24	2753673	1	Hose	
25	2753979	2	Hose	
26	2753746	1	Hose	
27	2753590	1	Hose	
28	1001109439	1	Hose	
29	2753984	1	Hose	
30	2753988	1	Hose	
31	2753989	1	Hose	
32	2753990	1	Hose	
33	2753991	1	Hose	
34	2753992	1	Hose	
35	1001109468	1	Hose	
36	1001109470	1	Hose	
37	1001109471	1	Hose	
38	2753843	1	Hose	
39	2753999	1	Hose	
40	1001176982	1	Hose	
41	2754001	1	Hose	
42	2754004	1	Hose	
43	2754870	1	Hose	
44	1001109438	1	Hose	
45	1001109465	1	Hose	
46	1001173889	1	Tube	
47	4568849	1	Tube	
48	4568815	1	Tube	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	2111010	1	Fitting, Straight ORFS/ORB	
50	2111012	3	Fitting, Straight ORFS/ORB	
51	2170308	1	Fitting, Tee ORFS/ORFS/ORB	
52	2170908	1	Fitting, Cap ORFS	
53	2220811	1	Fitting, Reducer ORB/ORB	
54	2131620	1	Fitting, 90 ORFS/ORB	
55	2132020	1	Fitting, 90 ORFS/ORB	
56	1001173890	1	Hose	
57	2111616	1	Fitting, Straight ORFS/ORB	
58	2110812	1	Fitting, Straight ORFS/ORB	
59	1001104577	1	Hose	
60	1001119296	1	Hose	
61	2130404	1	Fitting, 90 ORFS/ORB	
62	2110808	1	Fitting, Straight ORFS/ORB	
63	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
64	2221221	1	Fitting, Straight ORFS/FSORFS	
65	2110406	1	Fitting, Straight ORFS/ORB	
66	1001103977	1 in/ 2.54cm	Hose	

FIGURE 7-12. HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS) (SN 0300311787 to Present)



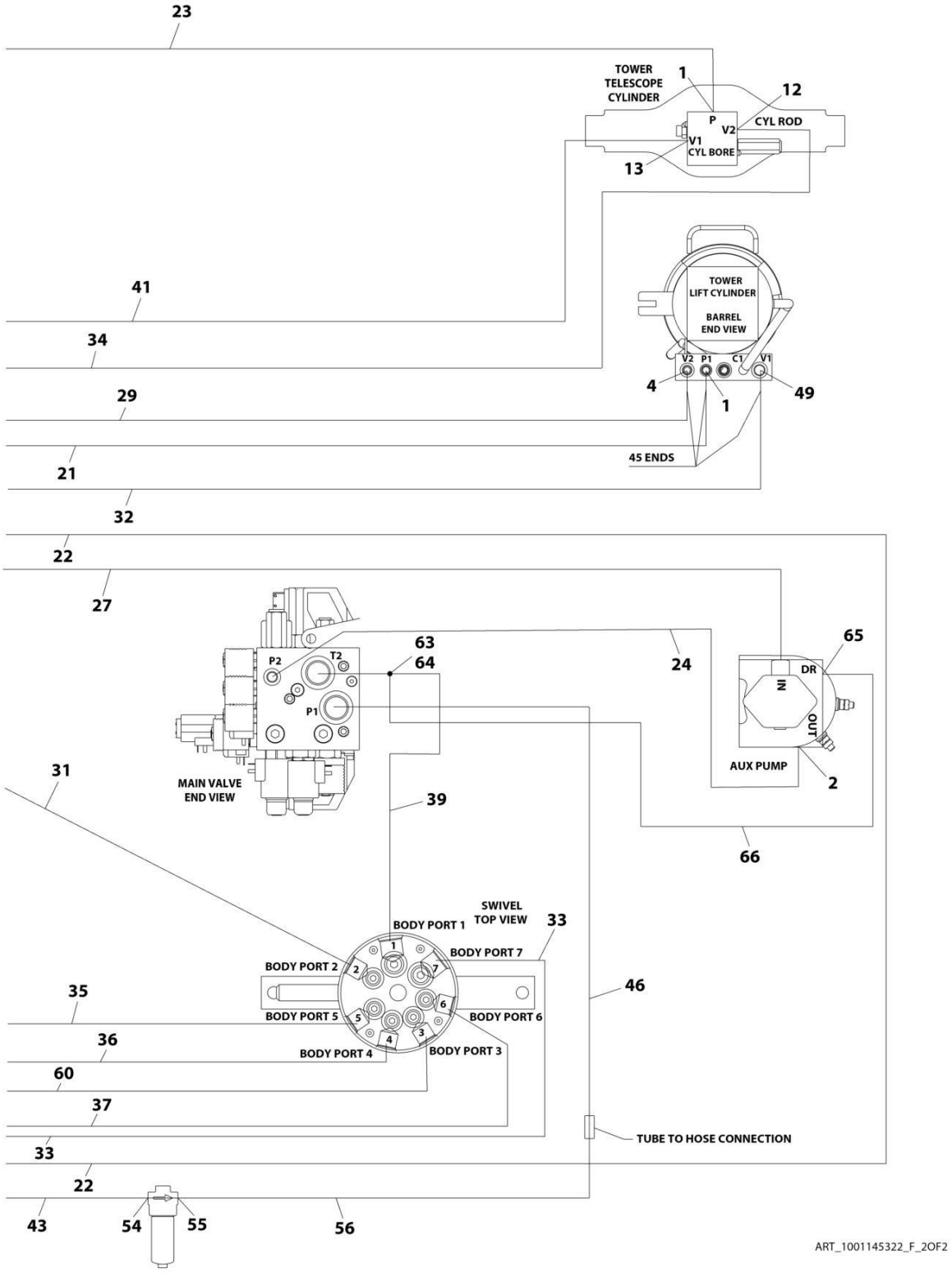
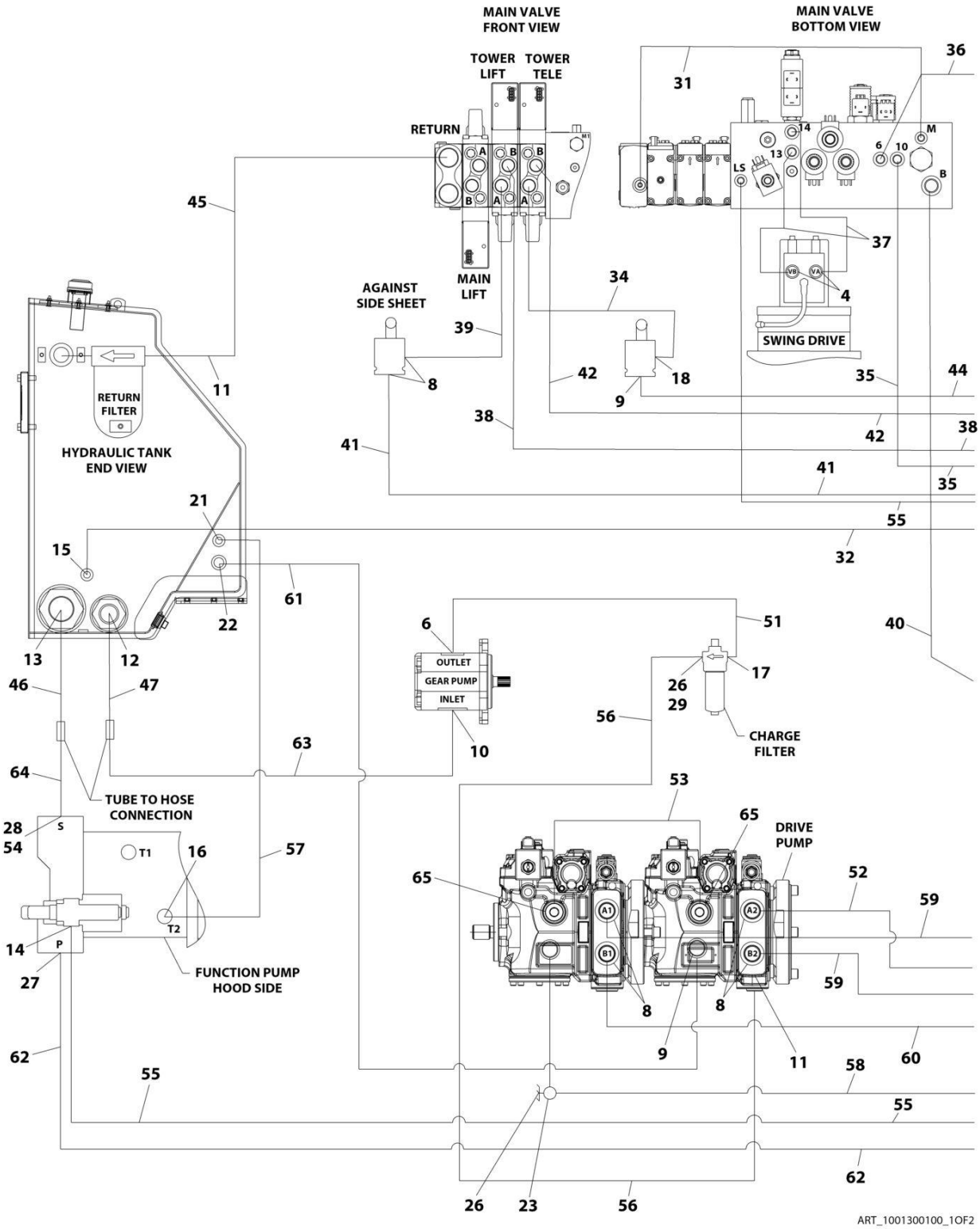

23
TOWER TELESCOPE CYLINDER
1
12
P
V2
CYL ROD
V1
CYL BORE
13
41
34
29
21
32
22
27
TOWER LIFT CYLINDER
BARREL END VIEW
V2 P1 C1 V1
4
1
49
45 ENDS
63
64
P2
T2
P1
MAIN VALVE END VIEW
24
65
DR
IN
OUT
AUX PUMP
2
31
39
66
SWIVEL TOP VIEW
33
BODY PORT 1
BODY PORT 7
BODY PORT 2
BODY PORT 5
BODY PORT 6
BODY PORT 4
BODY PORT 3
46
35
36
60
37
33
22
TUBE TO HOSE CONNECTION
43
54
55
56
ART_1001145322_F_2OF2

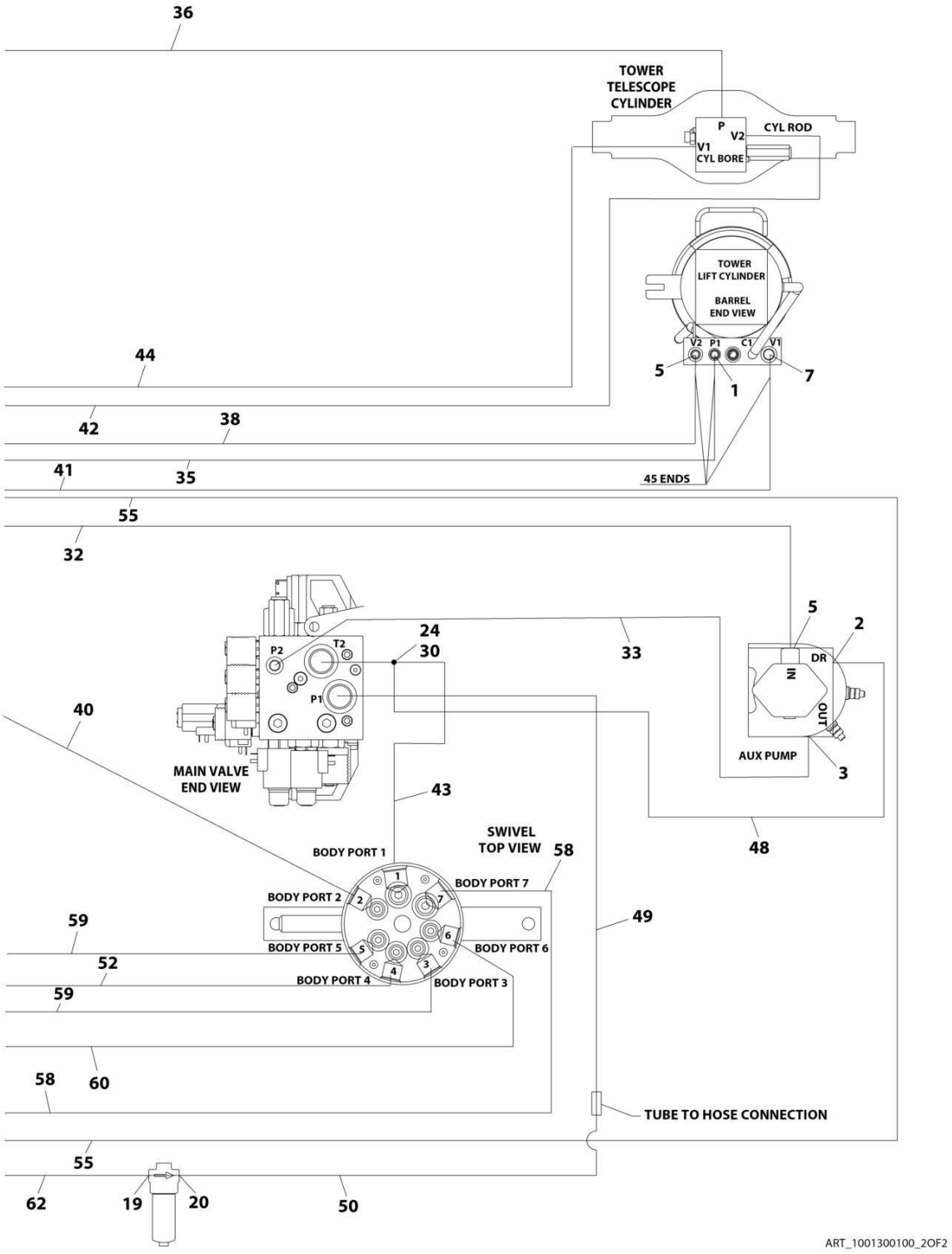
FIGURE 7-12. HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS) (SN 0300311787 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS)	L
	1001145322	Ref	Hydraulic Diagram - Turntable	F
1	2110404	1	Fitting, Straight ORFS/ORB	
2	2110608	1	Fitting, Straight ORFS/ORB	
3	2110610	2	Fitting, Straight ORFS/ORB	
4	2110808	2	Fitting, Straight ORFS/ORB	
5	2110810	2	Fitting, Straight ORFS/ORB	
6	2111016	4	Fitting, Straight ORFS/ORB	
7	2111212	2	Fitting, Straight ORFS/ORB	
8	2111620	1	Fitting, Straight ORFS/ORB	
9	2112020	1	Fitting, Straight ORFS/ORB	
10	2113232	1	Fitting, Straight ORFS/ORB	
11	2130808	1	Fitting, 90 ORFS/ORB	
12	2131008	1	Fitting, 90 ORFS/ORB	
13	2131210	1	Fitting, 90 ORFS/ORB	
14	2131212	1	Fitting, 90 ORFS/ORB	
15	2150808	1	Fitting, 45 ORFS/ORB	
16	2151212	1	Fitting, 45 ORFS/ORB	
17	2220478	1	Flange Kit	
18	1001110604	1	Flange Kit	
19	2130812	1	Fitting, 90 ORFS/ORB	
20	2753546	1	Hose	
21	2753975	1	Hose	
22	2753976	1	Hose	
23	2753977	1	Hose	
24	2753673	1	Hose	
25	2753979	2	Hose	
26	2753746	1	Hose	
27	2753590	1	Hose	
28	1001109439	1	Hose	
29	2753984	1	Hose	
30	2753988	1	Hose	
31	2753989	1	Hose	
32	2753990	1	Hose	
33	2753991	1	Hose	
34	2753992	1	Hose	
35	1001109468	1	Hose	
36	1001109470	1	Hose	
37	1001109471	1	Hose	
38	2753843	1	Hose	
39	2753999	1	Hose	
40	1001176982	1	Hose	
41	2754001	1	Hose	
42	2754004	1	Hose	
43	2754870	1	Hose	
44	1001109438	1	Hose	
45	1001109465	1	Hose	
46	1001173889	1	Tube	
47	4568849	1	Tube	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	4568815	1	Tube	
49	2111010	1	Fitting, Straight ORFS/ORB	
50	2111012	3	Fitting, Straight ORFS/ORB	
51	2170308	1	Fitting, Tee ORFS/ORFS/ORB	
52	2170908	1	Fitting, Cap ORFS	
53	2220811	1	Fitting, Reducer ORB/ORB	
54	2131620	1	Fitting, 90 ORFS/ORB	
55	2132020	1	Fitting, 90 ORFS/ORB	
56	1001173890	1	Hose	
57	2111616	1	Fitting, Straight ORFS/ORB	
58	2110812	1	Fitting, Straight ORFS/ORB	
59	1001104577	1	Hose	
60	1001119296	1	Hose	
61	2130404	1	Fitting, 90 ORFS/ORB	
63	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
64	2221221	1	Fitting, Straight ORFS/FSORFS	
65	2110406	1	Fitting, Straight ORFS/ORB	
66	1001103977	1 in /2.6 cm	Hose	

FIGURE 7-13. HYDRAULIC DIAGRAM - TURNTABLE (WITH PMP PUMPS) (SN 0300311787 to Present)





ART_1001300100_2OF2

FIGURE 7-13. HYDRAULIC DIAGRAM - TURNTABLE (WITH PMP PUMPS) (SN 0300311787 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110252	Ref	HYDRAULIC DIAGRAM - TURNTABLE (WITH SAUER PUMPS)	L
	1001300100	Ref	HYDRAULIC DIAGRAM - TURNTABLE (WITH PMP PUMPS)	B
1	2110404	1	Fitting, Straight ORFS/ORB	
2	2110406	1	Fitting, Straight ORFS/ORB	
3	2110608	1	Fitting, Straight ORFS/ORB	
4	2110610	2	Fitting, Straight ORFS/ORB	
5	2110808	2	Fitting, Straight ORFS/ORB	
6	2110812	1	Fitting, Straight ORFS/ORB	
7	2111010	5	Fitting, Straight ORFS/ORB	
8	2111012	4	Fitting, Straight ORFS/ORB	
9	2111212	3	Fitting, Straight ORFS/ORB	
10	2111616	2	Fitting, Straight ORFS/ORB	
11	2111620	1	Fitting, Straight ORFS/ORB	
12	2112020	1	Fitting, Straight ORFS/ORB	
13	2113232	1	Fitting, Straight ORFS/ORB	
14	2130404	1	Fitting, 90 ORFS/ORB	
15	2130808	1	Fitting, 90 ORFS/ORB	
16	2130810	1	Fitting, 90 ORFS/ORB	
17	2130812	1	Fitting, 90 ORFS/ORB	
18	2131212	1	Fitting, 90 ORFS/ORB	
19	2131620	1	Fitting, 90 ORFS/ORB	
20	2132020	1	Fitting, 90 ORFS/ORB	
21	2150808	1	Fitting, 45 ORFS/ORB	
22	2151212	1	Fitting, 45 ORFS/ORB	
23	2170312	1	Fitting, Tee ORFS/FSORFS/ORFS	
24	2170712	1	Fitting, Tee ORFS/FSORFS/ORFS	
26	2170912	2	Fitting, Cap FORFS	
27	2220478	1	Flange Kit	
28	2220737	1	Flange Kit	
29	2170412	1	Fitting, Tee ORFS/ORFS/ORB	
30	2221221	1	Fitting, Straight ORFS/FSORFS	
31	2753546	1	Hose	
32	2753590	1	Hose	
33	2753673	1	Hose	
34	2753843	1	Hose	
35	2753975	1	Hose	
36	2753977	1	Hose	
37	2753979	2	Hose	
38	2753984	1	Hose	
39	2753988	1	Hose	
40	2753989	1	Hose	
41	2753990	1	Hose	
42	2753992	1	Hose	
43	2753999	1	Hose	
44	2754001	1	Hose	
45	2754004	1	Hose	
46	4568815	1	Tube	
47	4568849	1	Tube	
48	1001103977	1	Hose	
49	1001173889	1	Tube	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001173890	1	Hose	
51	1001297564	1	Hose	
52	1001297567	1	Hose	
53	1001297571	1	Hose	
54	1001297601	1	Adapter, Elbow	
55	2753976	1	Hose	
56	1001297754	1	Hose	
57	1001109439	1	Hose	
58	1001297756	1	Hose	
59	1001297757	2	Hose	
60	1001297758	1	Hose	
61	1001176982	1	Hose	
62	1001297760	1	Hose	
63	1001297761	1	Hose	
64	1001297762	1	Hose	
65	2170112	2	Fitting, Straight ORFS/ORB	
66	4061032	2	Hose	
67	4240018	5	Tie-Strap (Not Shown)	

FIGURE 7-14. HYDRAULIC DIAGRAM - AUXILIARY POWER MOTOR

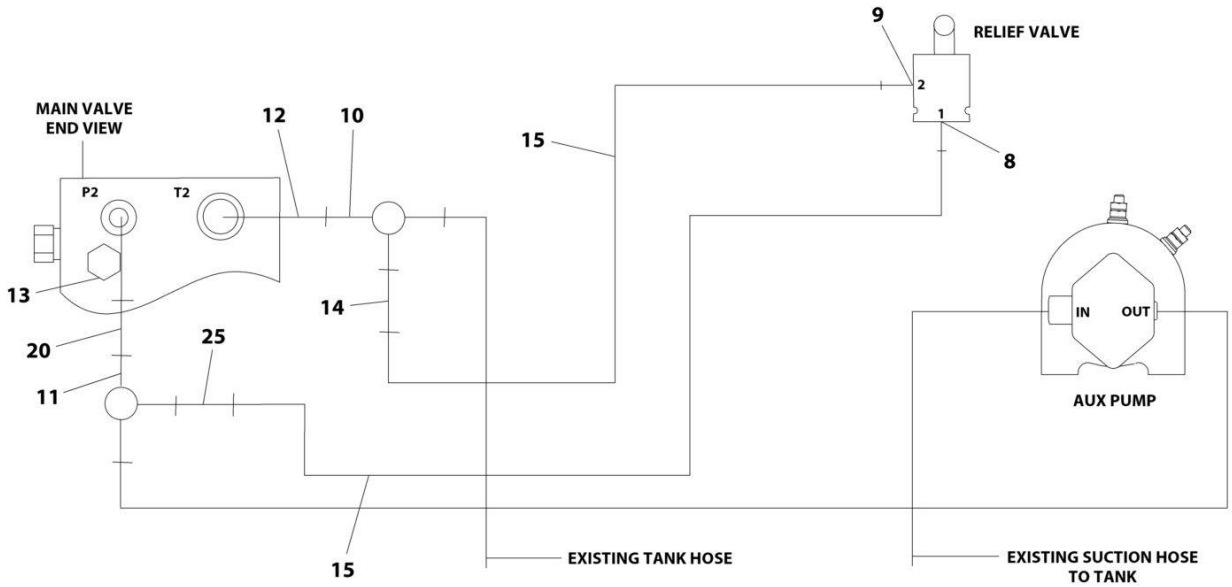


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FIGURE 7-14. HYDRAULIC DIAGRAM - AUXILIARY POWER MOTOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139520	Ref	HYDRAULIC DIAGRAM - AUXILIARY POWER MOTOR	B
8	2110406	1	Fitting, Straight ORFS/ORB	
9	2130406	1	Fitting, 90 ORFS/ORB	
10	2170312	1	Fitting, Tee ORFS	
11	2170506	1	Fitting, Tee ORFS/ORFS/ORFS	
12	2220550	1	Fitting, Straight SFORB/ORB	
13	2221123	1	Fitting, Straight S FSORFS/ORB	
14	2221221	1	Fitting, Straight ORFS/FSORFS	
15	2753781	2	Hose	
20	4641316	1	Valve, Check	
25	1001092764	1	Fitting, Tube End Reducer	

SECTION 8 - ELECTRICAL

FIGURE 8-1. AC BOX AT PLATFORM - 110V GFI RECEPTACLE (ANSI SPECS)

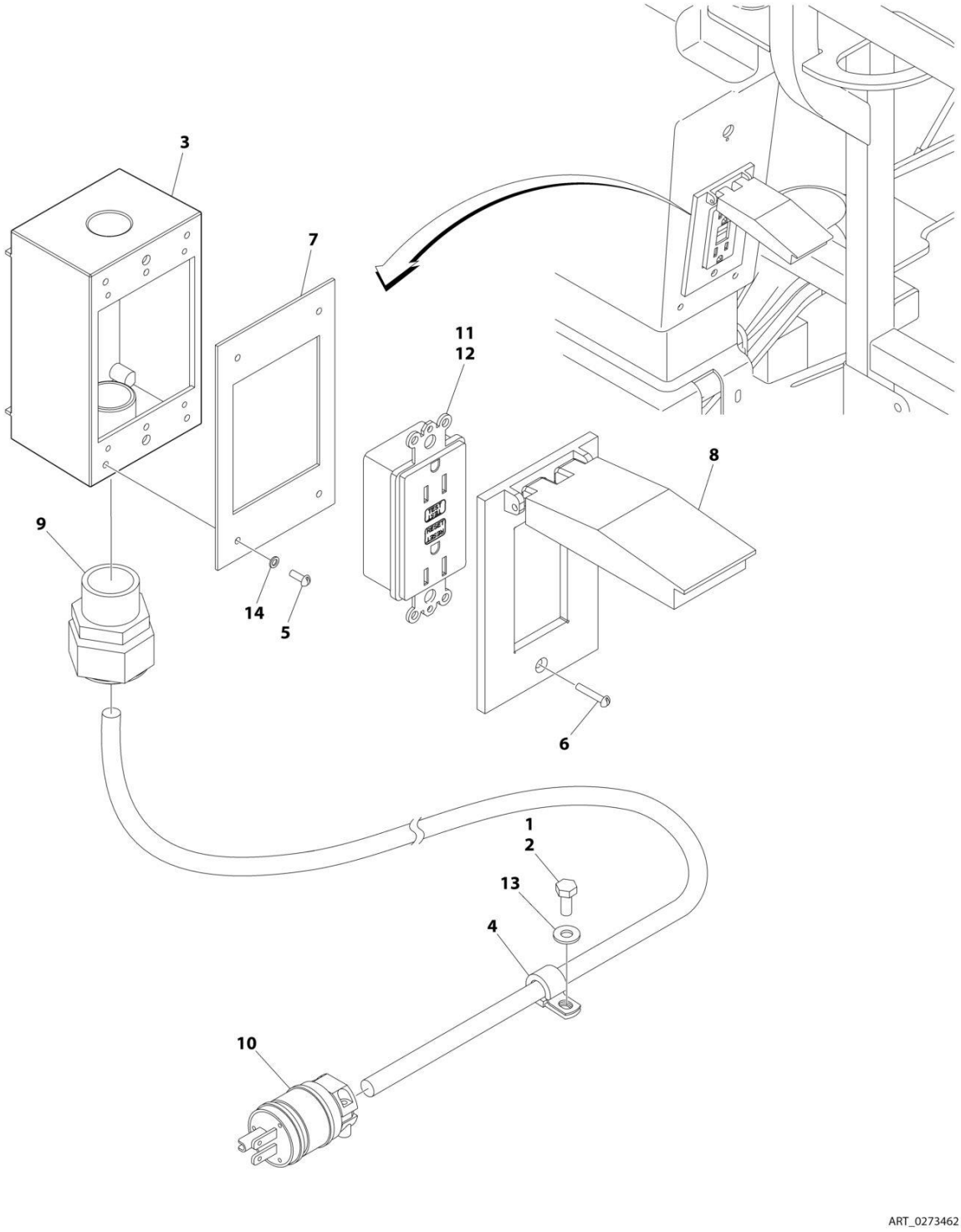

FIGURE 8-1. AC BOX AT PLATFORM - 110V GFI RECEPTACLE (ANSI SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273462	Ref	AC BOX AT PLATFORM - 110V GFI RECEPTACLE	B
1	0100011	AR	Compound, Locking	
2	0641405	1	Bolt 1/4 x 5/8	
3	0860038	1	Box, Switch	
4	1320041	1	Clamp	
5	3910606	4	Screw #6 x 3/8	
6	3910612	2	Screw #6 x 3/4	
7	3960422	1	Gasket, AC Receptacle	
8	1001110873	1	Shield, Receptacle Cover	
9	4460051	1	Connector, Strain Relief	
10	4460205	1	Plug, Male	
11	4460315	1	Terminal, Spade	
12	4460346	1	Terminal, Receptacle	
13	4711400	1	Washer 1/4	
14	4760600	4	Washer #6	

FIGURE 8-2. AC BOX AT PLATFORM - 220V GFI RECEPTACLE (ANSI SPECS)

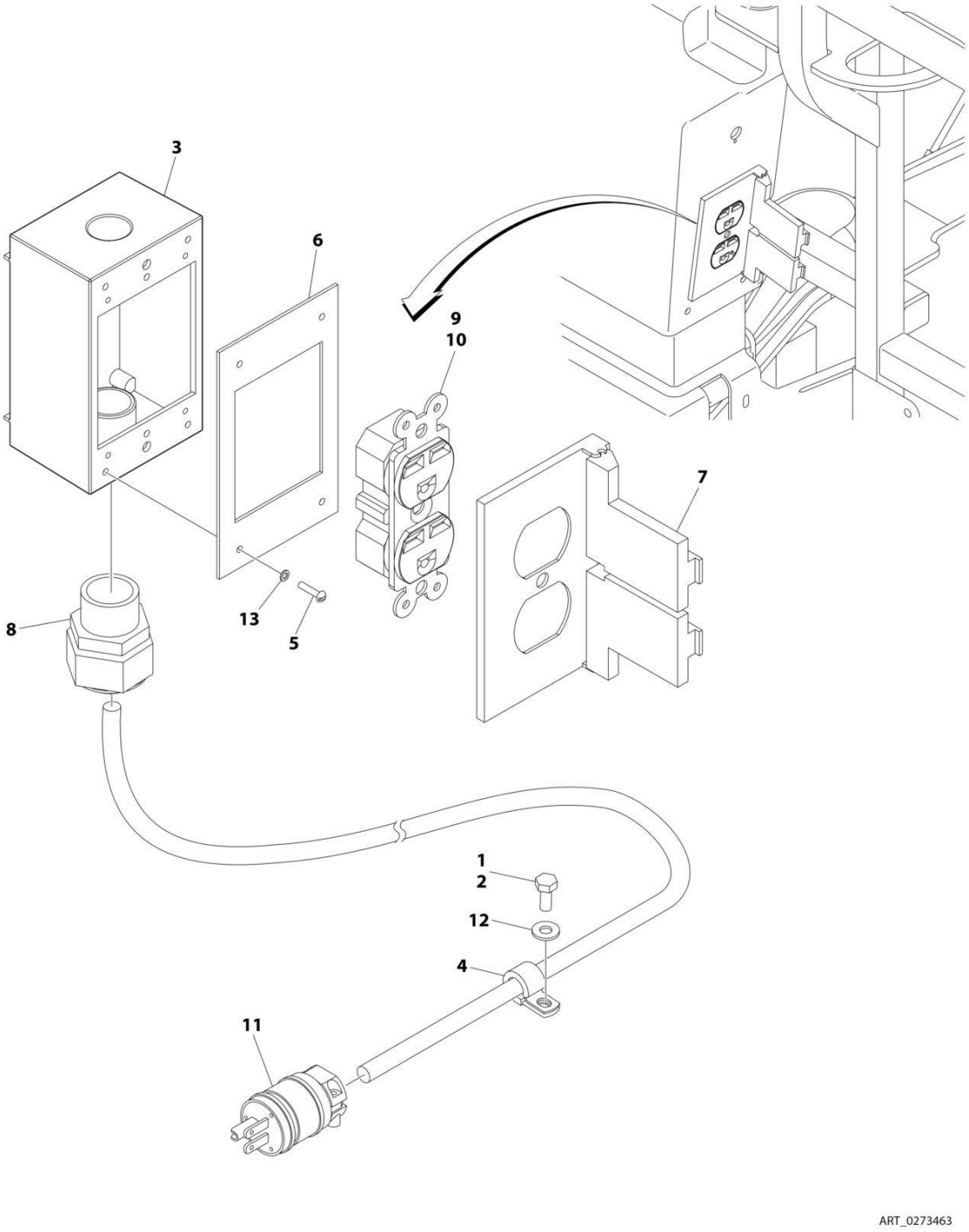

FIGURE 8-2. AC BOX AT PLATFORM - 220V GFI RECEPTACLE (ANSI SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273463	Ref	AC BOX AT PLATFORM - 220V GFI RECEPTACLE	A
1	0100011	AR	Compound, Locking	
2	0641405	1	Bolt 1/4 x 5/8	
3	0860038	1	Box, Switch	
4	1320041	1	Clamp	
5	3910606	4	Screw #6 x 3/8	
6	3960422	1	Gasket, AC Receptacle	
7	4060092	1	Shield, Receptacle Cover	
8	4460051	1	Connector, Strain Relief	
9	4460125	1	Terminal, Receptacle	
10	4460315	1	Terminal, Spade	
11	4460709	1	Plug, Male	
12	4711400	1	Washer 1/4	
13	4760600	4	Washer #6	

FIGURE 8-3. AC BOX AT PLATFORM INSTALLATION - BOX WITH COVER (2X4 BOX) WITH 4000W GENERATOR (ANSI EXPORT, AUSTRALIAN, JAPANESE, CE & UK CA SPECS)

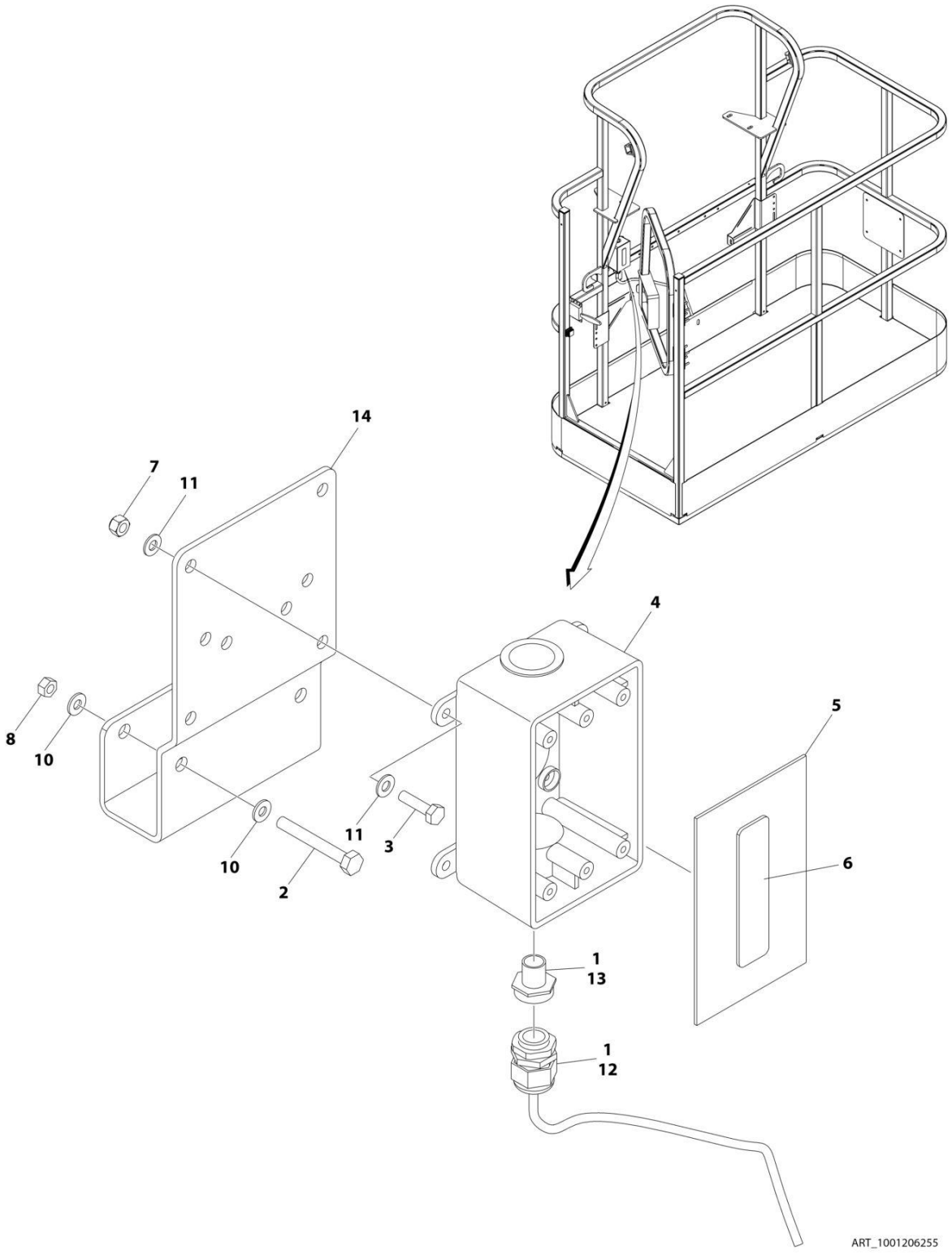

FIGURE 8-3. AC BOX AT PLATFORM INSTALLATION - BOX WITH COVER (2X4 BOX) WITH 4000W GENERATOR (ANSI EXPORT, AUSTRALIAN, JAPANESE, CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206255	Ref	AC BOX AT PLATFORM INSTALLATION - BOX WITH COVER (2X4 BOX) WITH 4000W GENERATOR	A
1	0100020	AR	Sealant, Pipe	
2	0641416	2	Bolt 1/4 x 2	
3	0700408	4	Bolt M4 x 16	
4	0861731	1	Box, Switch	
5	1670603	1	Cover	
6	3251242	1	Decal - 240V-50Hz	
7	3290405	4	Nut M4	
8	3311405	2	Nut 1/4	
10	4711400	4	Washer 1/4	
11	4811400	8	Washer M4	
12	1001101191	1	Connector, Strain Relief	
13	1001101197	1	Adapter	
14	1001193018	1	Bracket, AC Receptacle	

FIGURE 8-4. AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

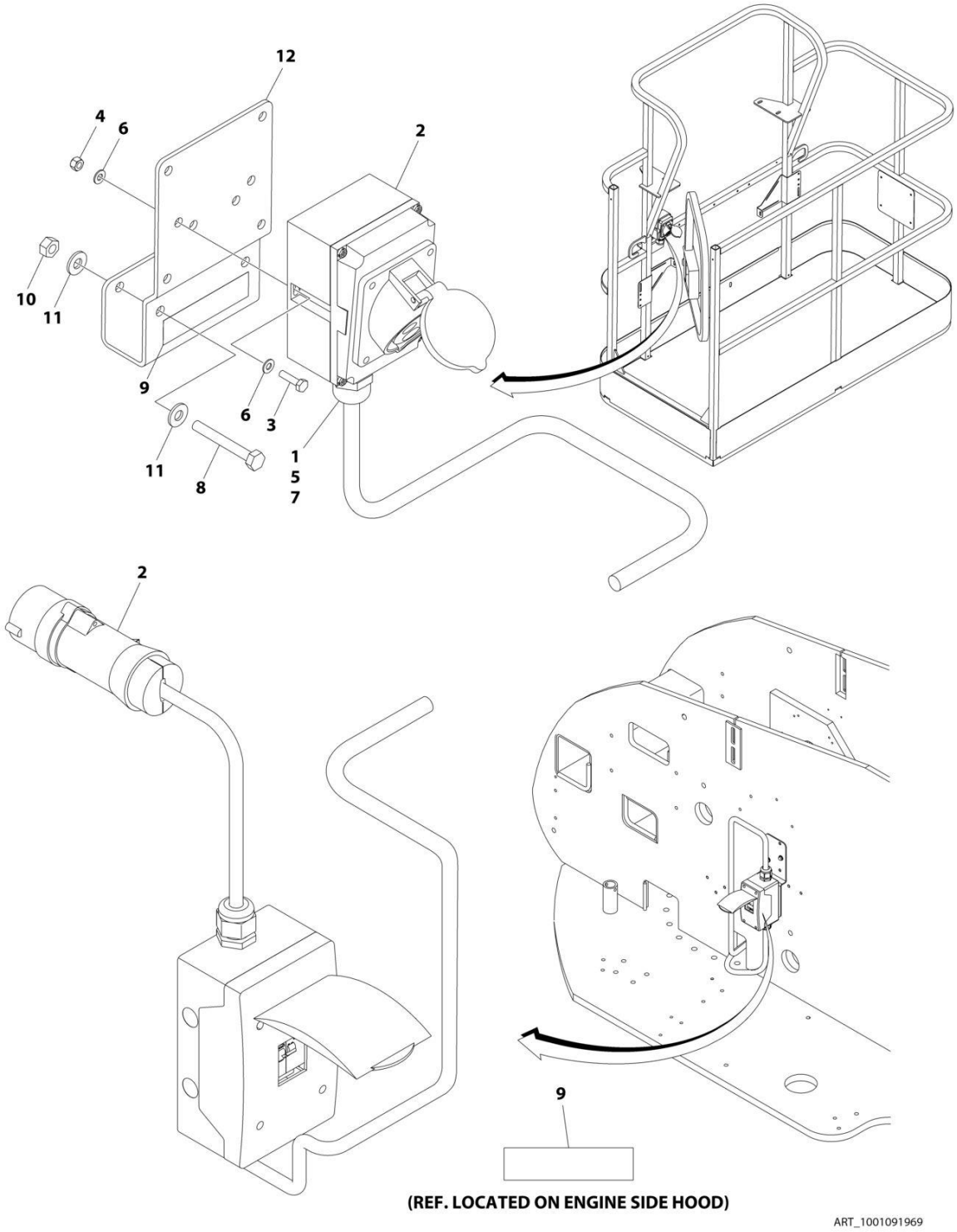

FIGURE 8-4. AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091969	Ref	AC BOX AT PLATFORM INSTALLATION - 110V IEC YELLOW	D
1	0100020	AR	Sealant, Pipe	
2	0275216	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
3	0700408	2	Bolt M4 x 16	
4	3290405	2	Nut M4	
5	1001101196	1	Adapter	
6	4811400	4	Washer M4	
7	1001101191	1	Connector, Strain Relief	
8	0641416	2	Bolt 1/4 x 2	
9	1705325	2	Decal - 110V	
10	3311405	2	Nut 1/4	
11	4711400	4	Washer 1/4	
12	1001193018	1	Bracket	

FIGURE 8-5. AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITH 2500W GENERATOR (CE & UK CA SPECS)

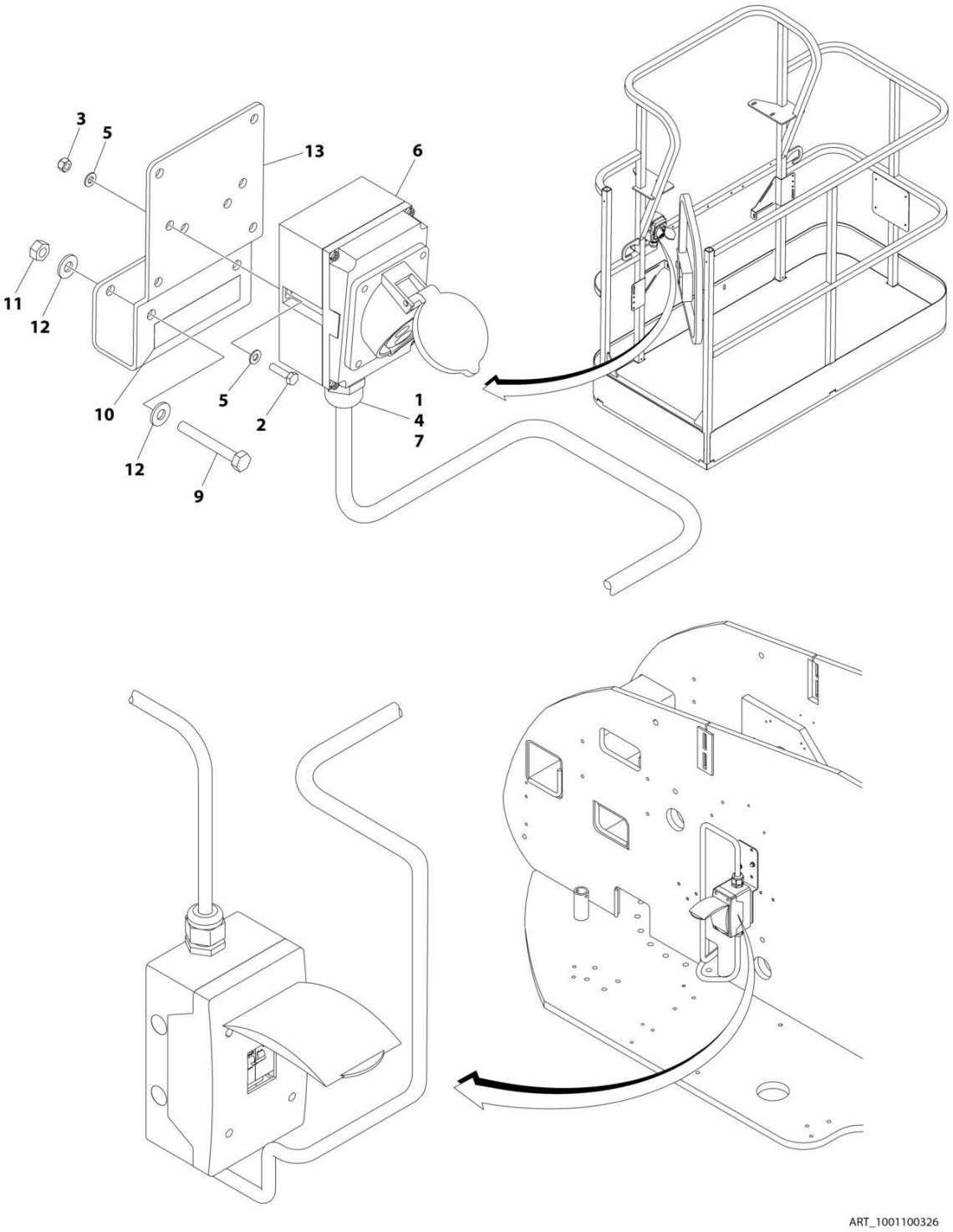

FIGURE 8-5. AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100326	Ref	AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW	D
1	0100020	AR	Sealant, Pipe	
2	0700408	2	Bolt M4 x 16	
3	3290405	2	Nut M4	
4	1001101196	1	Adapter	
5	4811400	4	Washer M4	
6	1001100341	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
7	1001101191	1	Connector, Strain Relief	
8	1060908	10 ft /3.05m	Cable, Electrical 12/3 (Not Shown)	
9	0641416	2	Bolt 1/4 x 2	
10	1705325	1	Decal - 110V	
11	3311405	2	Nut 1/4	
12	4711400	4	Washer 1/4	
13	1001193018	1	Bracket	

FIGURE 8-6. AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITH 4000W GENERATOR (CE & UK CA SPECS)

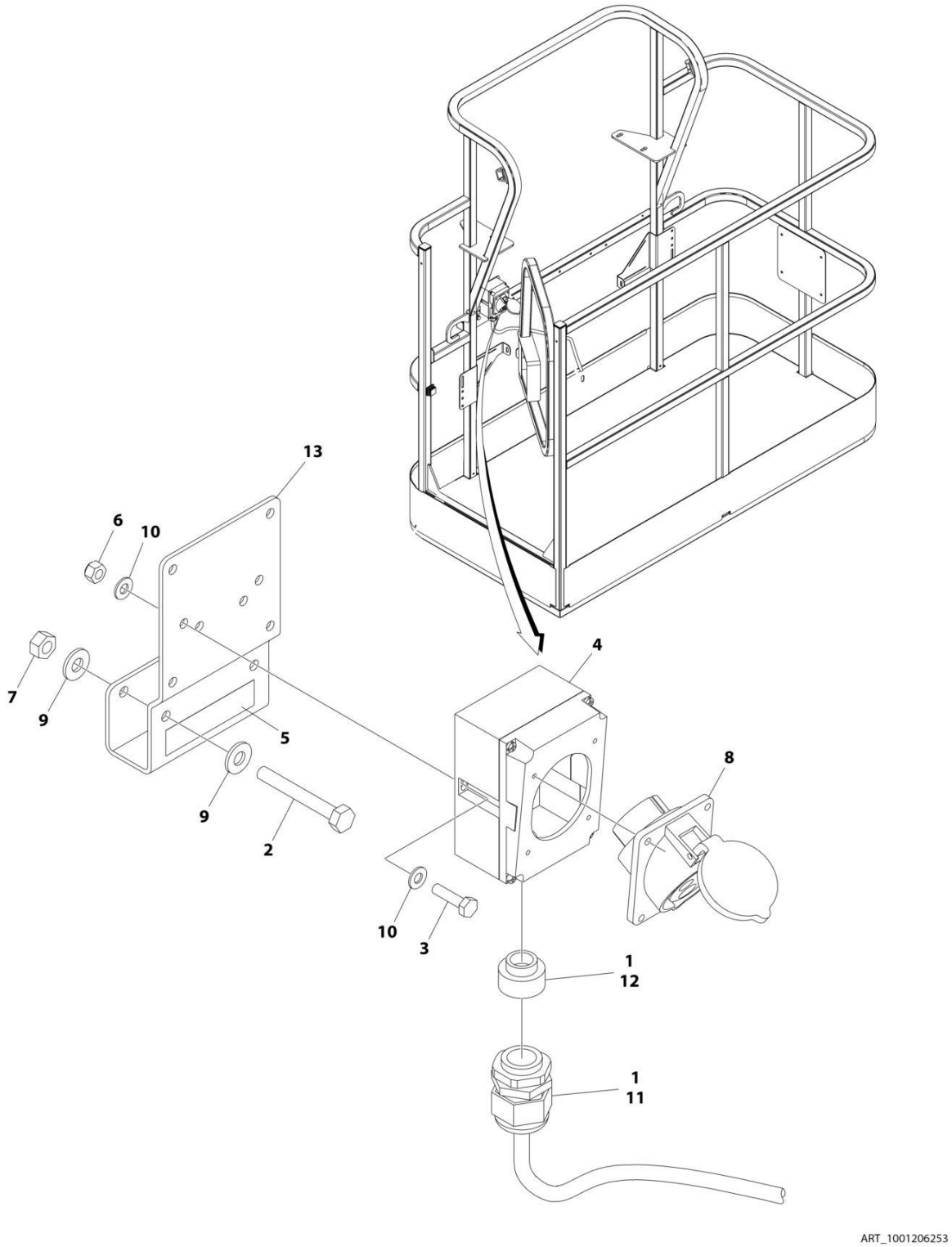

FIGURE 8-6. AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITH 4000W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206253	Ref	AC BOX AT PLATFORM INSTALLATION - 110V IEC 60309 YELLOW WITHOUT 4000W GENERATOR	A
1	0100020	AR	Sealant, Pipe	
2	0641416	2	Bolt 1/4 x 2	
3	0700408	2	Bolt M4 x 16	
4	0861781	1	Box, Switch	
5	1705325	1	Decal - 110V	
6	3290405	2	Nut M4	
7	3311405	2	Nut 1/4	
8	4461198	1	Receptacle	
9	4711400	4	Washer 1/4	
10	4811400	4	Washer M4	
11	1001101191	1	Connector, Strain Relief	
12	1001101196	1	Adapter	
13	1001193018	1	Bracket, AC Receptacle	

FIGURE 8-7. AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

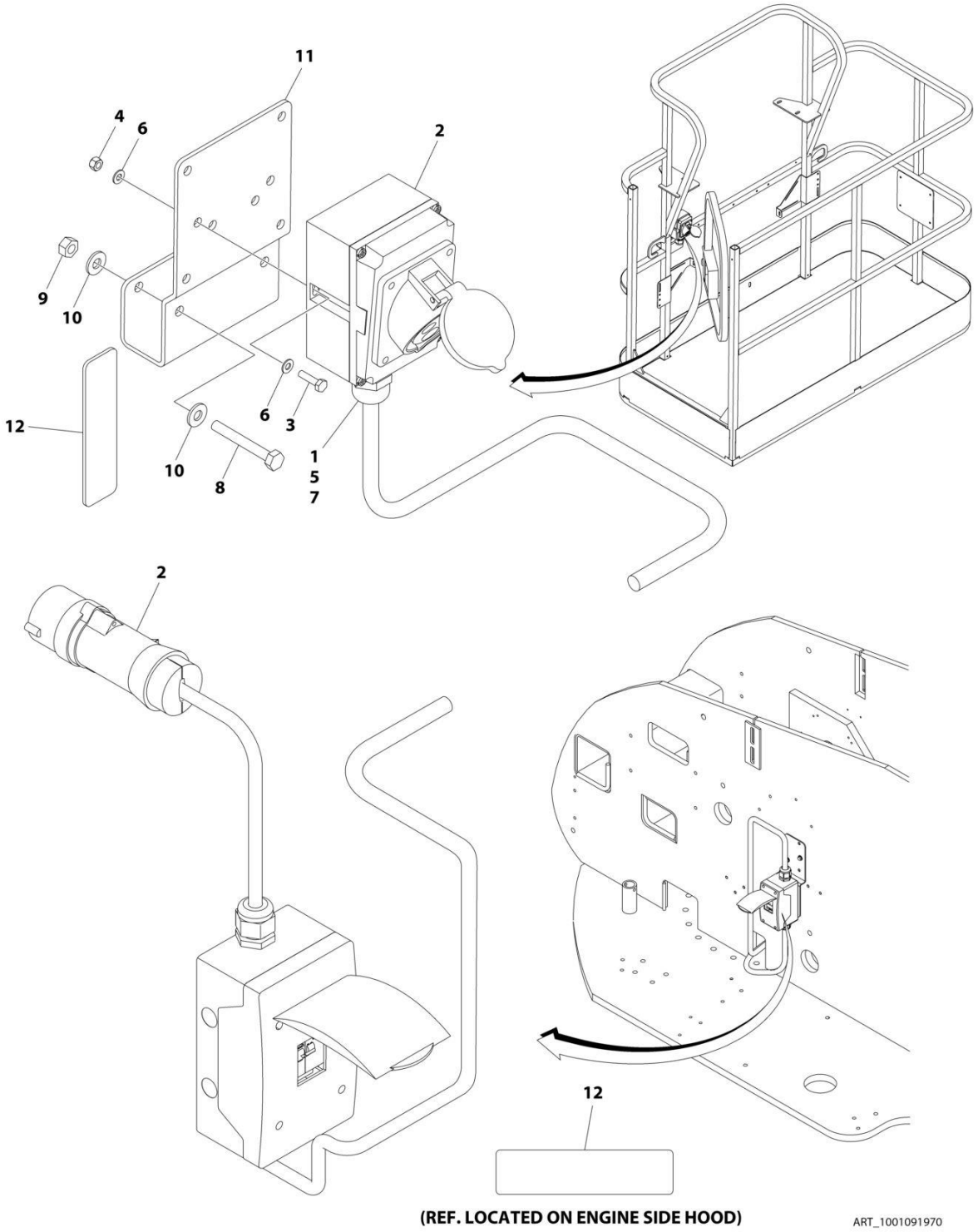

FIGURE 8-7. AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091970	Ref	AC BOX AT PLATFORM INSTALLATION - 220V IEC BLUE	D
1	0100020	AR	Sealant, Pipe	
2	0275217	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
3	0700408	2	Bolt M4 x 16	
4	3290405	2	Nut M4	
5	1001101196	1	Adapter	
6	4811400	4	Washer M4	
7	1001101191	1	Connector, Strain Relief	
8	0641416	2	Bolt 1/4 x 2	
9	3311405	2	Nut 1/4	
10	4711400	4	Washer 1/4	
11	1001193018	1	Bracket	
12	3251242	2	Decal - 240V/50Hz	

FIGURE 8-8. AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE WITH 2500W GENERATOR (CE & UK CA SPECS)

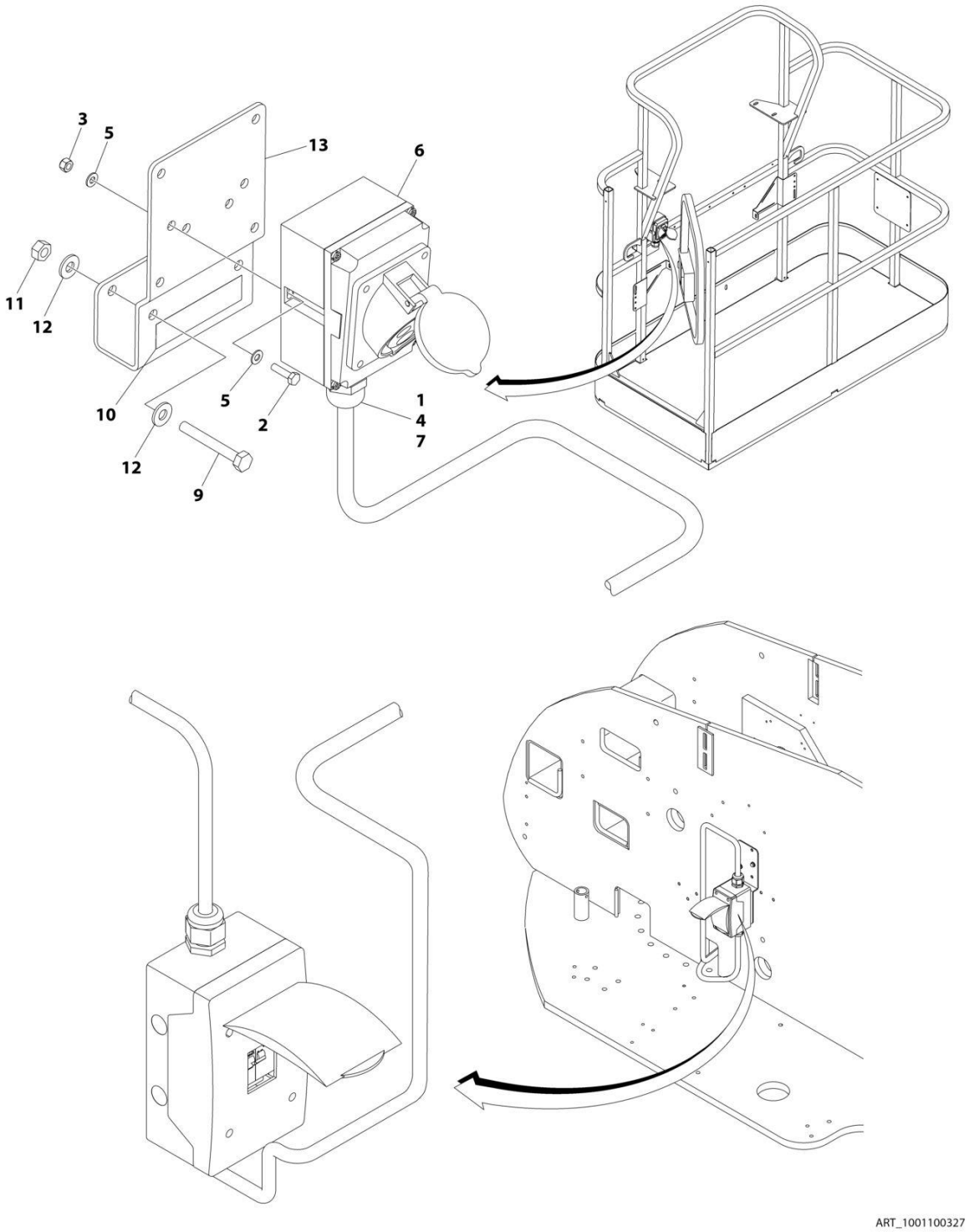

FIGURE 8-8. AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100327	Ref	AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE	D
1	0100020	AR	Sealant, Pipe	
2	0700408	2	Bolt M4 x 16	
3	3290405	2	Nut M4	
4	1001101196	1	Adapter	
5	4811400	4	Washer M4	
6	1001100342	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
7	1001101191	1	Connector, Strain Relief	
8	1060908	10 ft /3.05m	Cable, Electrical 12/3 (Not Shown)	
9	0641416	2	Bolt 1/4 x 2	
10	3252507	1	Decal - 220V	
11	3311405	2	Nut 1/4	
12	4711400	4	Washer 1/4	
13	1001193018	1	Bracket	

FIGURE 8-9. AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE WITH 4000W GENERATOR (CE & UK CA SPECS)

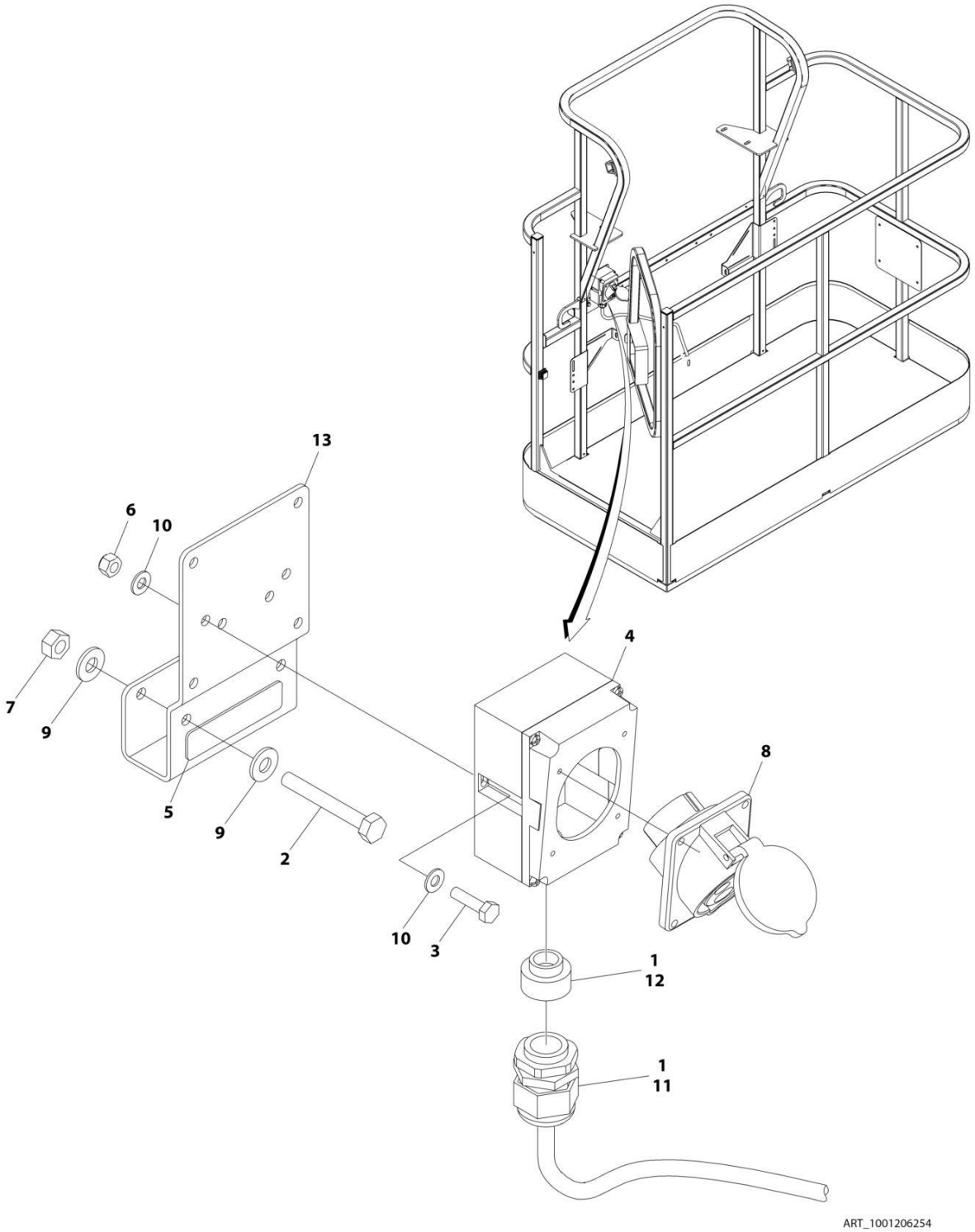

FIGURE 8-9. AC BOX AT PLATFORM INSTALLATION - 220V IEC 60309 BLUE WITH 4000W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206254	Ref	AC BOX AT PLATFORM INSTALLATION - 220V IEC BLUE	A
1	0100020	AR	Sealant, Pipe	
2	0641416	2	Bolt 1/4 x 2	
3	0700408	2	Bolt M4 x 16	
4	0861781	1	Box, Switch	
5	3251242	1	Decal - 240V/50Hz	
6	3290405	2	Nut M4	
7	3311405	2	Nut 1/4	
8	4461201	1	Receptacle	
9	4711400	4	Washer 1/4	
10	4811400	4	Washer M4	
11	1001101191	1	Connector, Strain Relief	
12	1001101196	1	Adapter	
13	1001193018	1	Bracket, AC Receptacle	

FIGURE 8-10. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX) WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

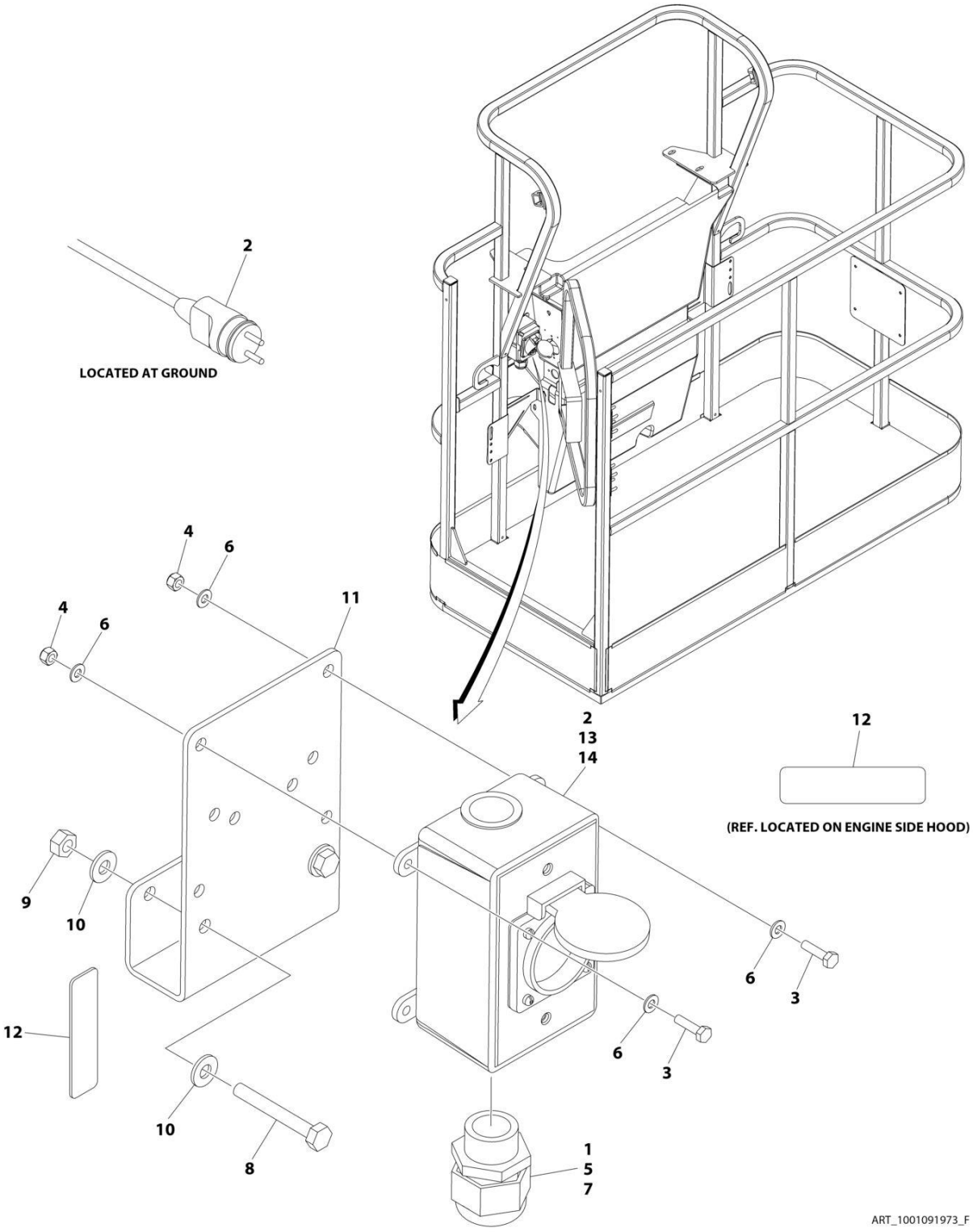

FIGURE 8-10. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX) WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091973	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 2X4 BOX POST GROUND	F
1	0100020	AR	Sealant, Pipe	
2	0275452	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
3	0700408	4	Bolt M4 x 16	
4	3290405	4	Nut M4	
5	1001101197	1	Adapter	
6	4811400	8	Washer M4	
7	1001101191	1	Connector, Strain Relief	
8	0641416	2	Bolt 1/4 x 2	
9	3311405	2	Nut 1/4	
10	4711400	4	Washer 1/4	
11	1001193018	1	Bracket	
12	3251242	2	Decal - 240V/50Hz	
13	4460806	2	Terminal, Fork (Not Shown)	
14	1001205958	1	Terminal (Not Shown)	

FIGURE 8-11. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX) WITH 2500W GENERATOR (CE & UK CA SPECS)

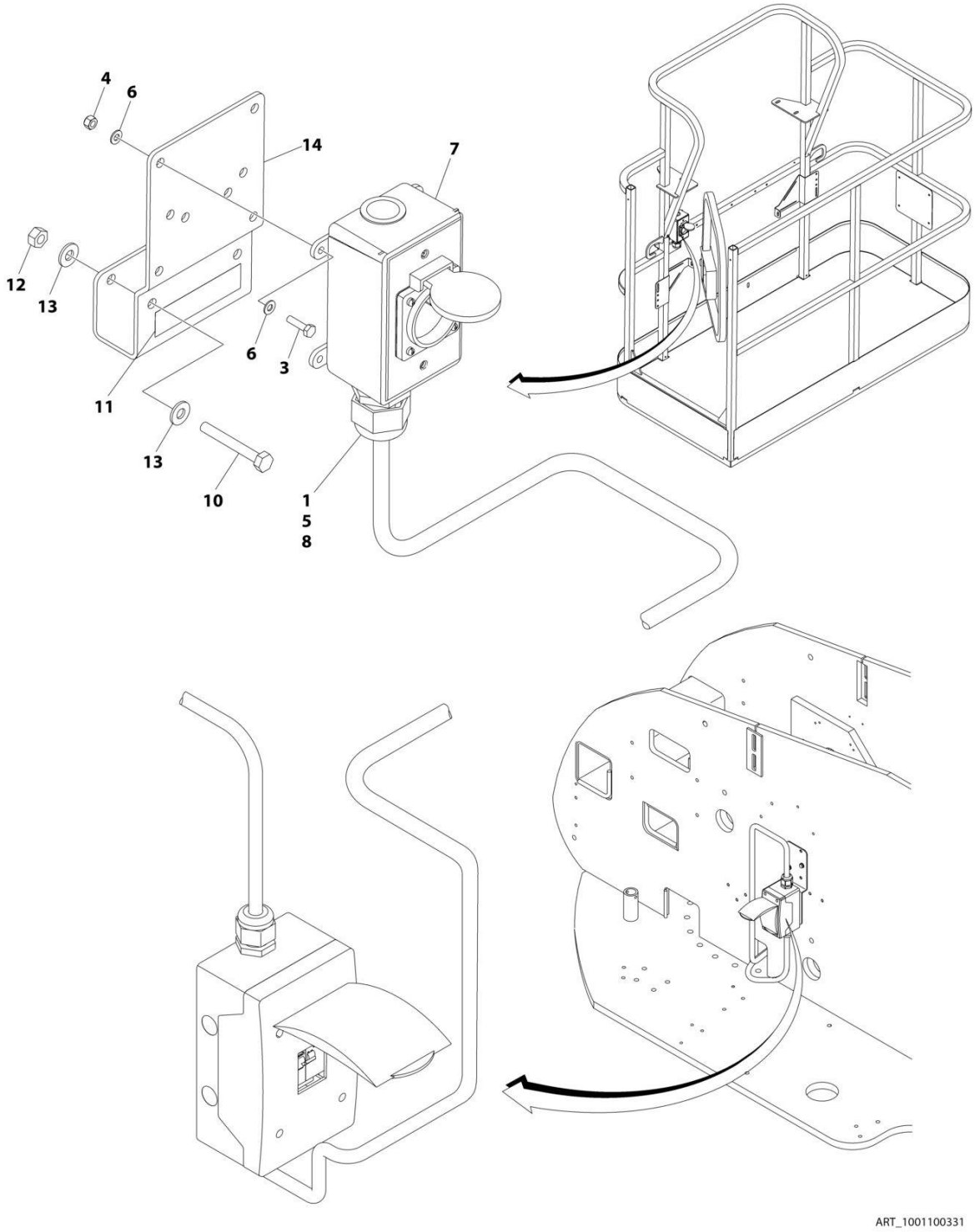

FIGURE 8-11. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX) WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100331	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX)	E
1	0100020	AR	Sealant, Pipe	
3	0700408	4	Bolt M4 x 16	
4	3290405	4	Nut M4	
5	1001101197	1	Adapter	
6	4811400	8	Washer M4	
7	1001100345	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
8	1001101191	1	Connector, Strain Relief	
9	1060908	10 ft /3.05m	Cable, Electrical 12/3 (Not Shown)	
10	0641416	2	Bolt 1/4 x 2	
11	3252507	1	Decal - 220V	
12	3311405	2	Nut 1/4	
13	4711400	4	Washer 1/4	
14	1001193018	1	Bracket	
15	4460806	2	Terminal, Fork (Not Shown)	
16	1001205958	1	Terminal (Not Shown)	

FIGURE 8-12. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX) WITH 4000W GENERATOR (CE & UK CA SPECS)

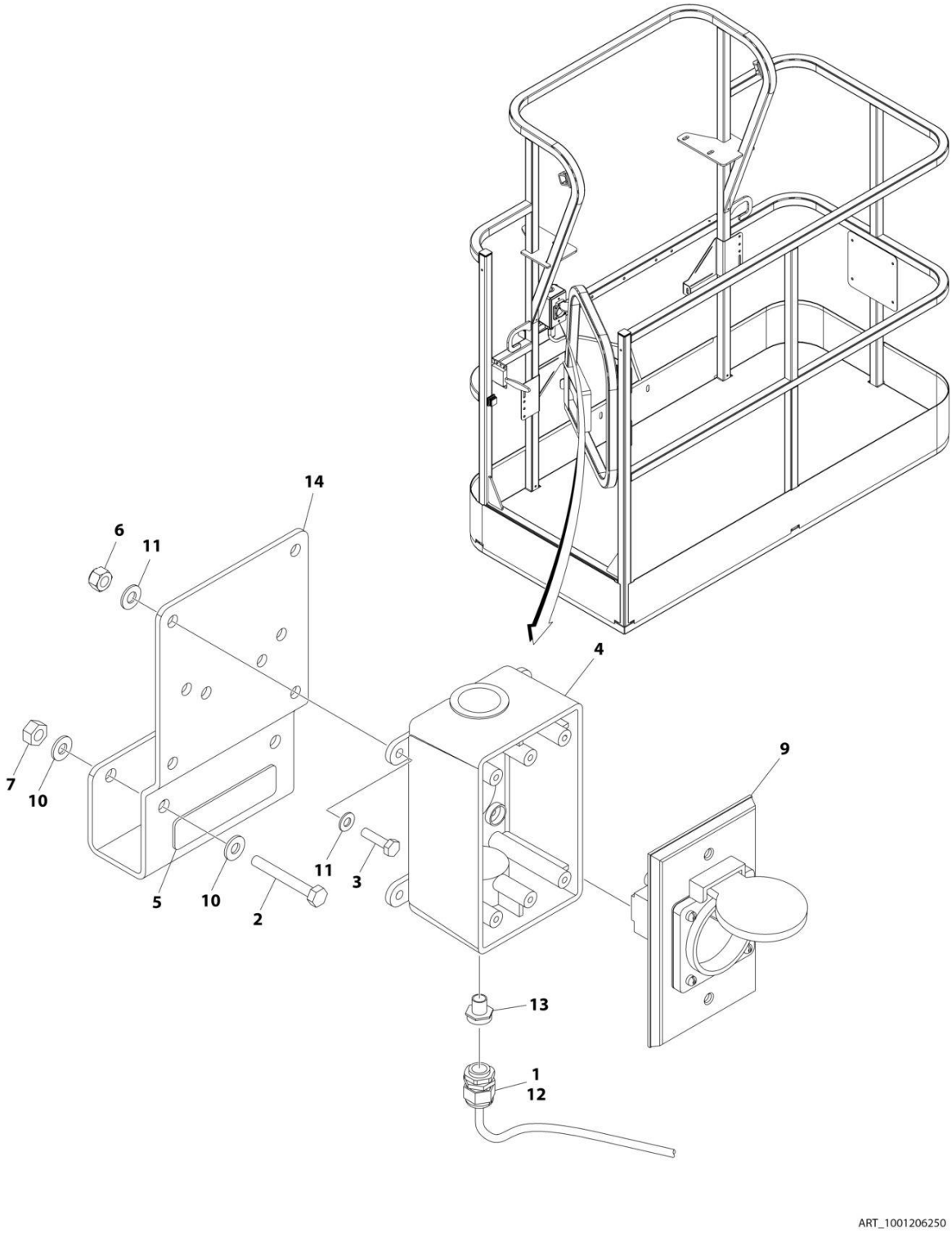

FIGURE 8-12. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (2X4 BOX) WITH 4000W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206250	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 2X4 BOX POST GROUND	A
1	0100020	AR	Sealant, Pipe	
2	0641416	2	Bolt 1/4 x 2	
3	0700408	4	Bolt M4 x 16	
4	0861731	1	Box, Switch	
5	3251242	1	Decal - 240V/50Hz	
6	3290405	4	Nut M4	
7	3311405	2	Nut 1/4	
8	4460806	2	Terminal, Fork (Not Shown)	
9	4461244	1	Receptacle	
10	4711400	4	Washer 1/4	
11	4811400	8	Washer M4	
12	1001101191	1	Connector, Strain Relief	
13	1001101197	1	Adapter	
14	1001193018	1	Bracket, AC Receptacle	
15	1001205958	1	Terminal (Not Shown)	

FIGURE 8-13. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX) WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

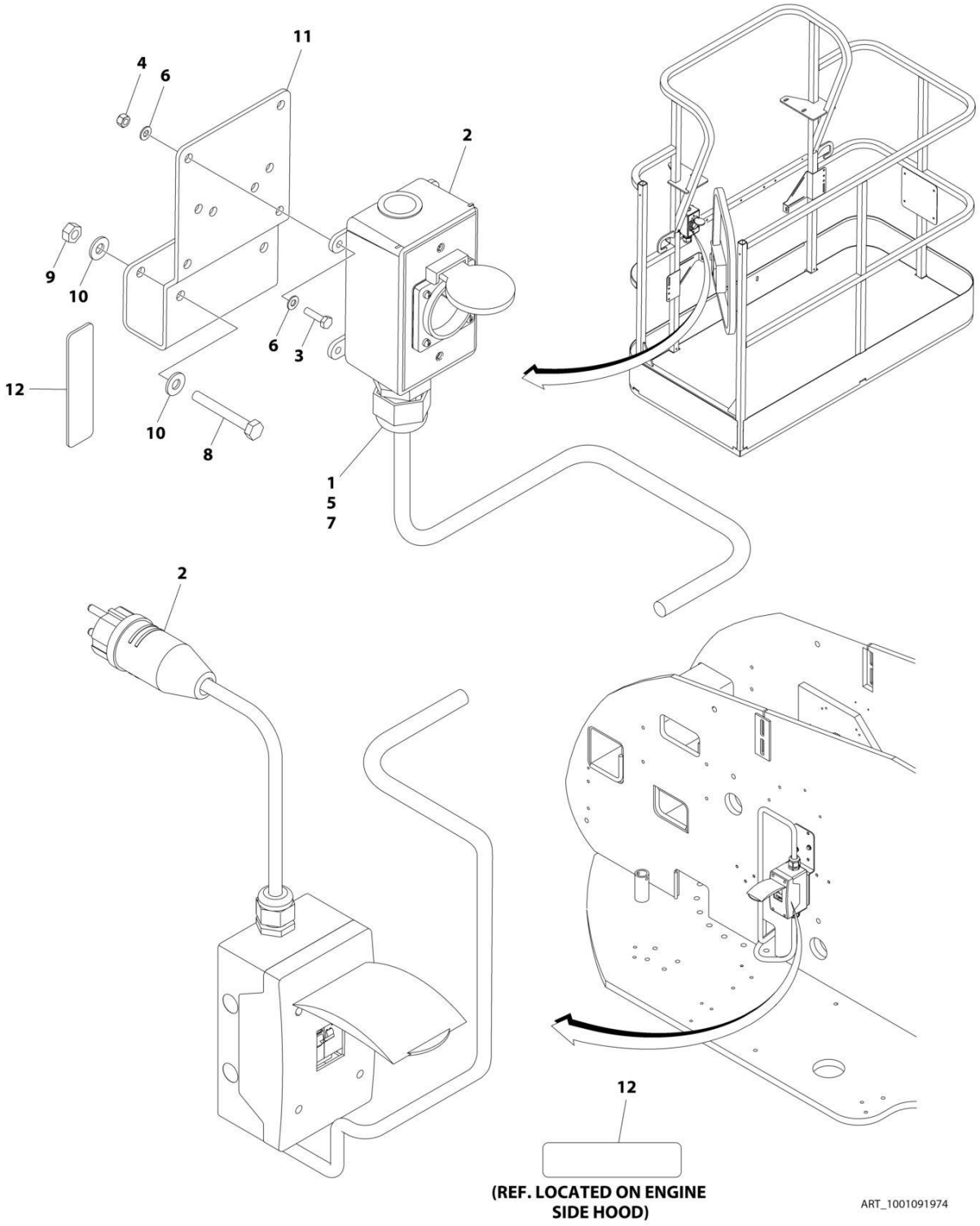

FIGURE 8-13. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX) WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091974	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 2X4 BOX SIDE GROUND	F
1	0100020	AR	Sealant, Pipe	
2	0275453	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
3	0700408	4	Bolt M4 x 16	
4	3290405	4	Nut M4	
5	1001101197	1	Adapter	
6	4811400	8	Washer M4	
7	1001101191	1	Connector, Strain Relief	
8	0641416	2	Bolt 1/4 x 2	
9	3311405	2	Nut 1/4	
10	4711400	4	Washer 1/4	
11	1001193018	1	Bracket	
12	3251242	2	Decal - 240V/50Hz	
13	4460806	2	Terminal, Fork (Not Shown)	
14	1001205958	1	Terminal (Not Shown)	

FIGURE 8-14. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX) WITH 2500W GENERATOR (CE & UK CA SPECS)

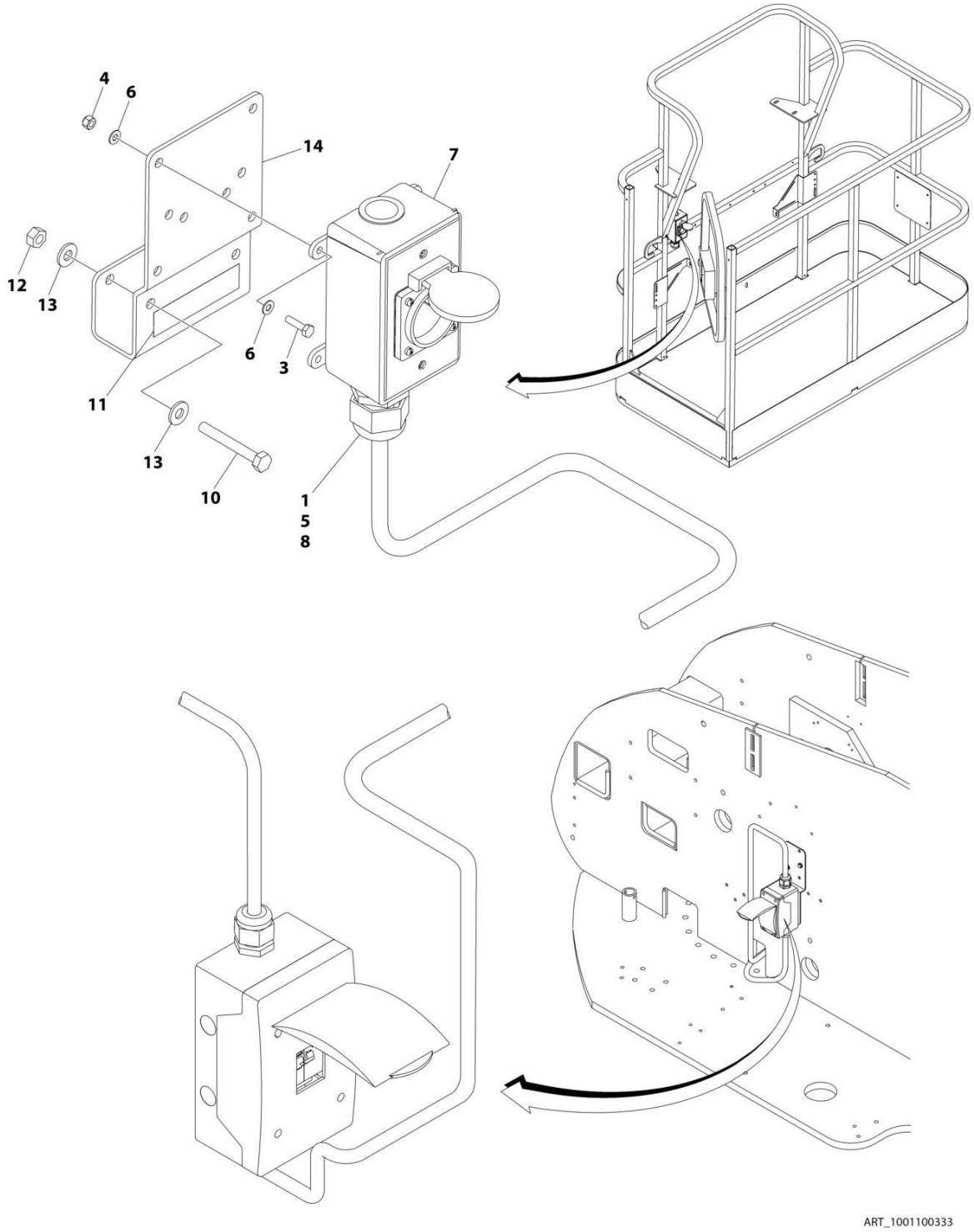

FIGURE 8-14. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX) WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100333	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX)	E
1	0100020	AR	Sealant, Pipe	
3	0700408	4	Bolt M4 x 16	
4	3290405	4	Nut M4	
5	1001101197	1	Adapter	
6	4811400	8	Washer M4	
7	1001100347	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
8	1001101191	1	Connector, Strain Relief	
9	1060908	10 ft /3.05m	Cable, Electrical 12/3 (Not Shown)	
10	0641416	2	Bolt 1/4 x 2	
11	3252507	1	Decal - 220V	
12	3311405	2	Nut 1/4	
13	4711400	4	Washer 1/4	
14	1001193018	1	Bracket	
15	4460806	2	Terminal, Fork (Not Shown)	
16	1001205958	1	Terminal (Not Shown)	

FIGURE 8-15. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX) WITH 4000W GENERATOR (CE & UK CA SPECS)

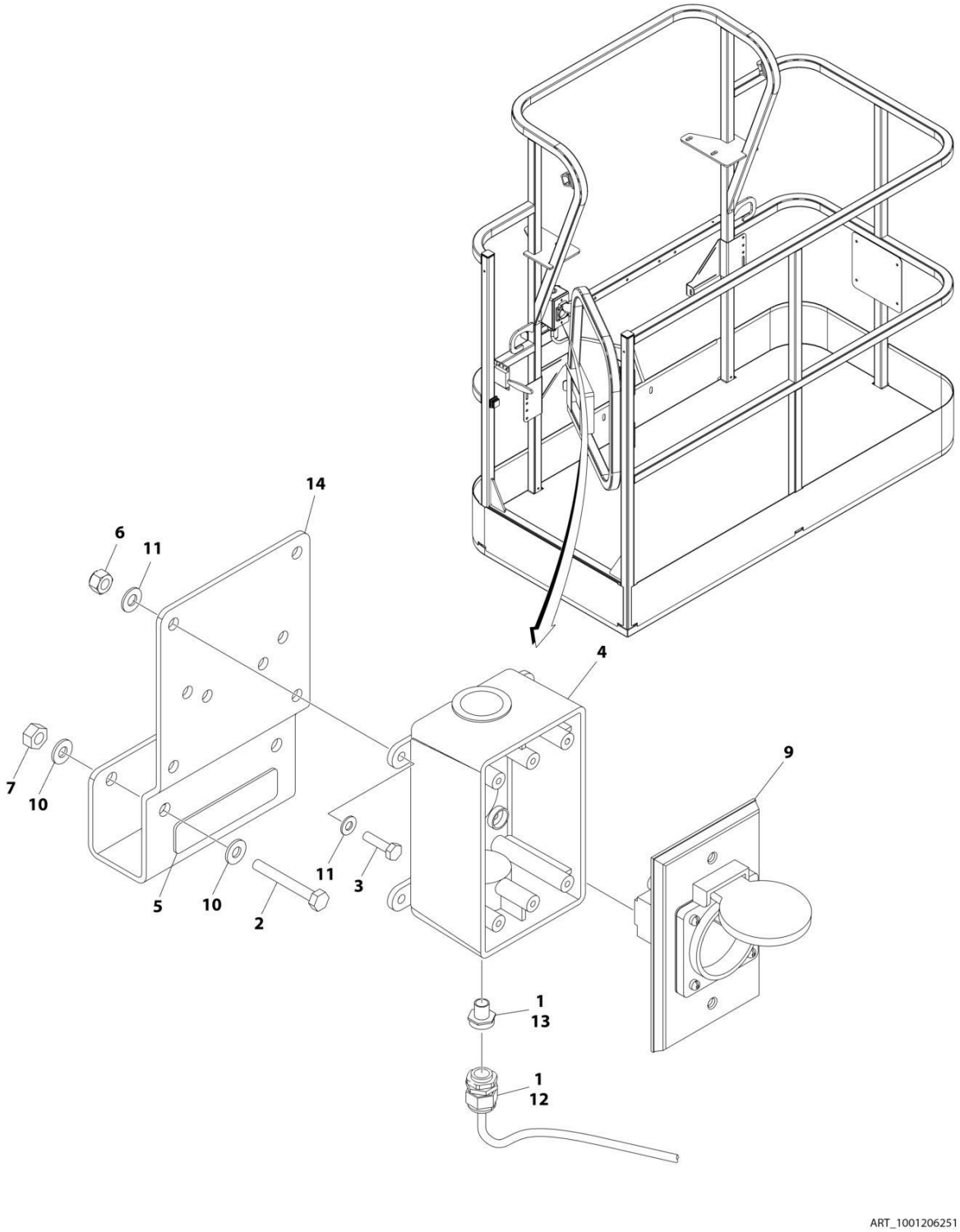

FIGURE 8-15. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (2X4 BOX) WITH 4000W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206251	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 2X4 BOX SIDE GROUND	A
1	0100020	AR	Sealant, Pipe	
2	0641416	2	Bolt 1/4 x 2	
3	0700408	4	Bolt M4 x 16	
4	0861731	1	Box, Switch	
5	3251242	1	Decal - 240V/50Hz	
6	3290405	4	Nut M4	
7	3311405	2	Nut 1/4	
8	4460806	2	Terminal, Fork (Not Shown)	
9	4461245	1	Receptacle	
10	4711400	4	Washer 1/4	
11	4811400	8	Washer M4	
12	1001101191	1	Connector, Strain Relief	
13	1001101197	1	Adapter	
14	1001193018	1	Bracket, AC Receptacle	
15	1001205958	1	Terminal (Not Shown)	

FIGURE 8-16. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 KEYED GROUND (2X4 BOX) WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

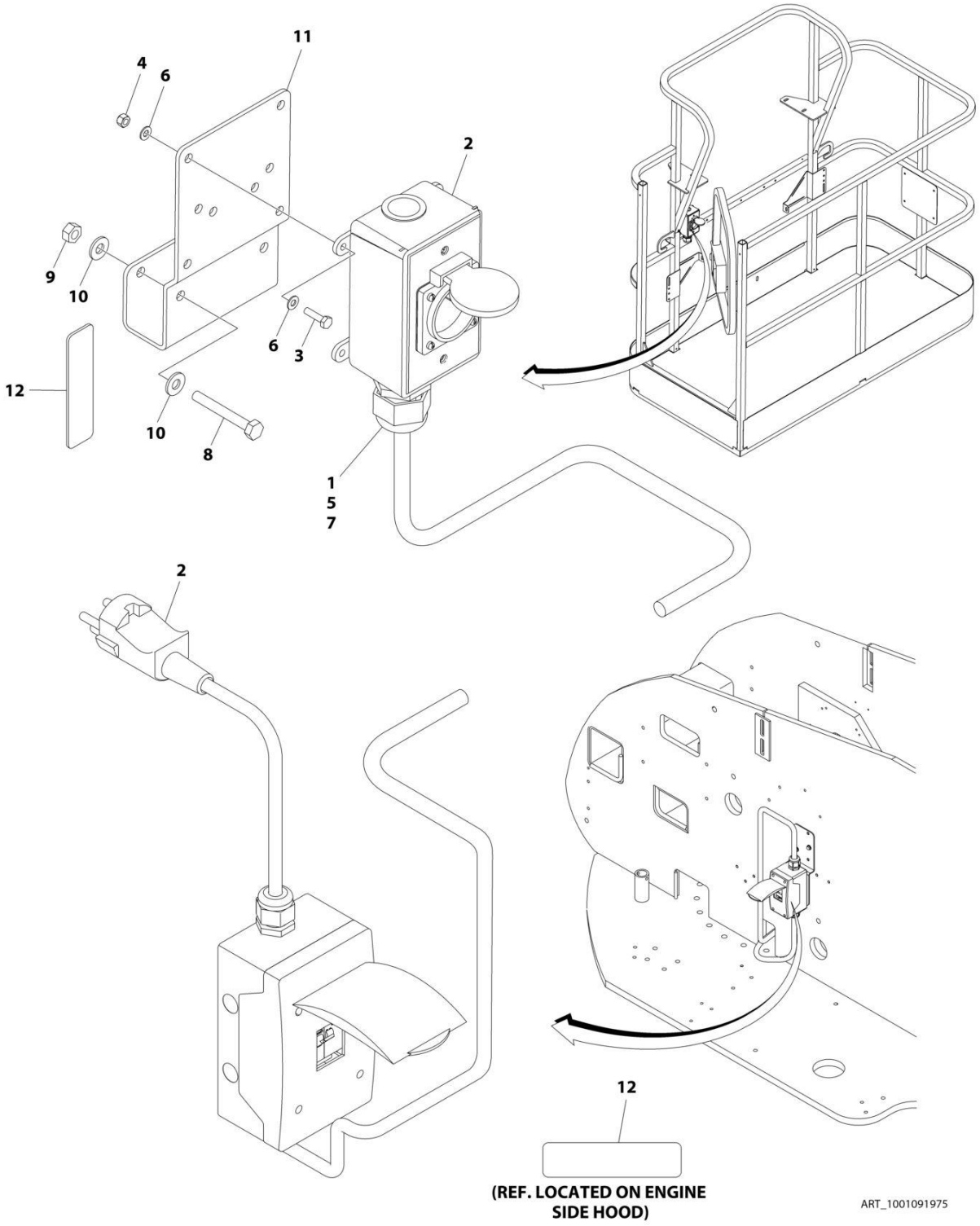

FIGURE 8-16. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 KEYED GROUND (2X4 BOX) WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091975	Ref	AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 2X4 BOX KEYED GROUND	F
1	0100020	AR	Sealant, Pipe	
2	0275454	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
3	0700408	4	Bolt M4 x 16	
4	3290405	4	Nut M4	
5	1001101197	1	Adapter	
6	4811400	8	Washer M4	
7	1001101191	1	Connector, Strain Relief	
8	0641416	2	Bolt 1/4 x 2	
9	3311405	2	Nut 1/4	
10	4711400	4	Washer 1/4	
11	1001193018	1	Bracket	
12	3251242	2	Decal - 240V/50Hz	
13	1001205958	3	Terminal (Not Shown)	

FIGURE 8-17. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 KEYED GROUND (2X4 BOX) WITH 2500W GENERATOR (CE & UK CA SPECS)

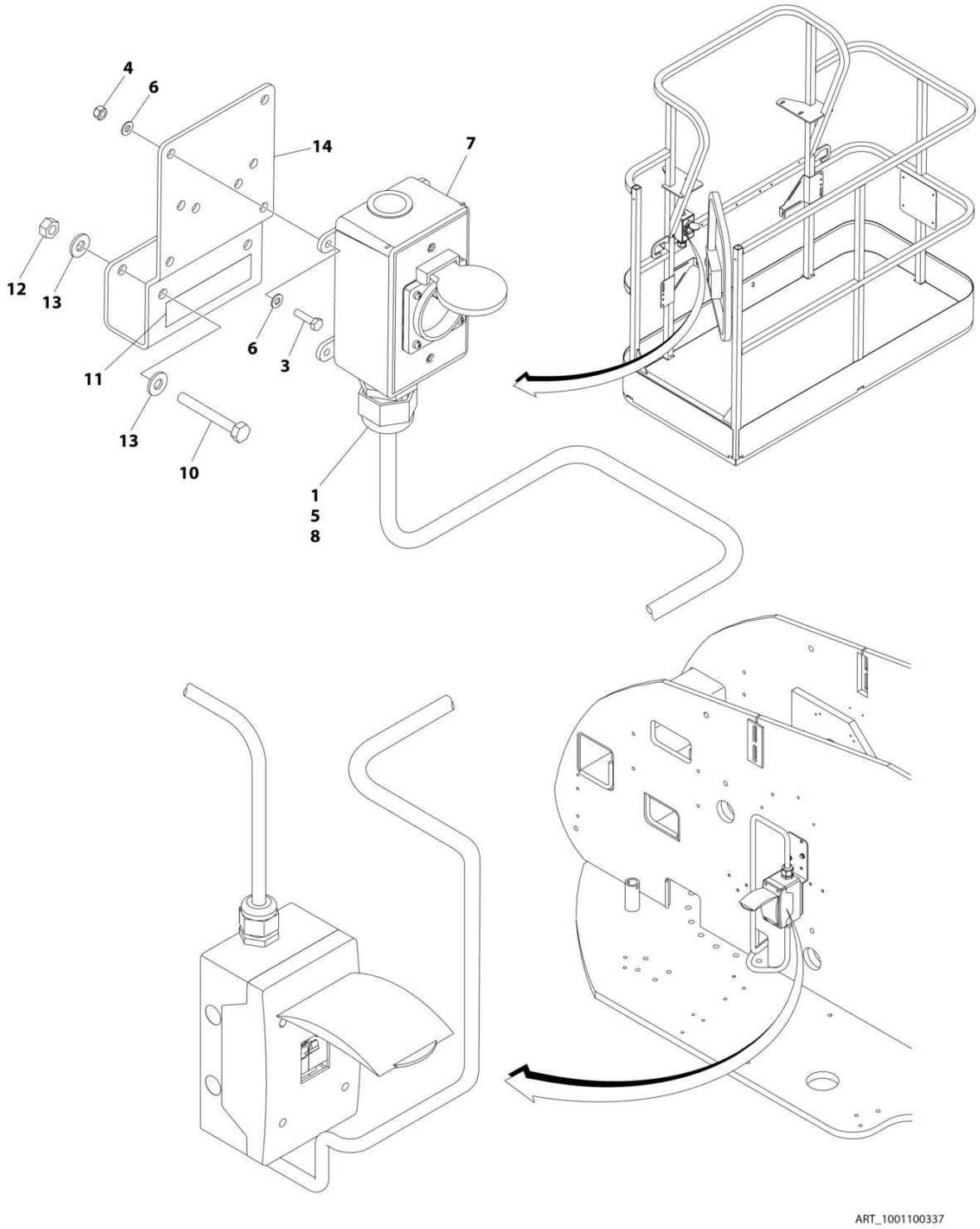

FIGURE 8-17. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 KEYED GROUND (2X4 BOX) WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100337	Ref	AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 2X4 BOX KEYED GROUND (2X4 BOX)	E
1	0100020	AR	Sealant, Pipe	
3	0700408	4	Bolt M4 x 16	
4	3290405	4	Nut M4	
5	1001101197	1	Adapter	
6	4811400	8	Washer M4	
7	1001100346	1	Receptacle Box Kit (See Separate Breakdown in this Section)	
8	1001101191	1	Connector, Strain Relief	
9	1060908	10 ft /3.05m	Cable, Electrical 12/3 (Not Shown)	
10	0641416	2	Bolt 1/4 x 2	
11	3252507	1	Decal - 220V	
12	3311405	2	Nut 1/4	
13	4711400	4	Washer 1/4	
14	1001193018	1	Bracket	
15	1001205958	3	Terminal (Not Shown)	

FIGURE 8-18. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 KEYED GROUND (2X4 BOX) WITH 4000W GENERATOR (CE & UK CA SPECS)

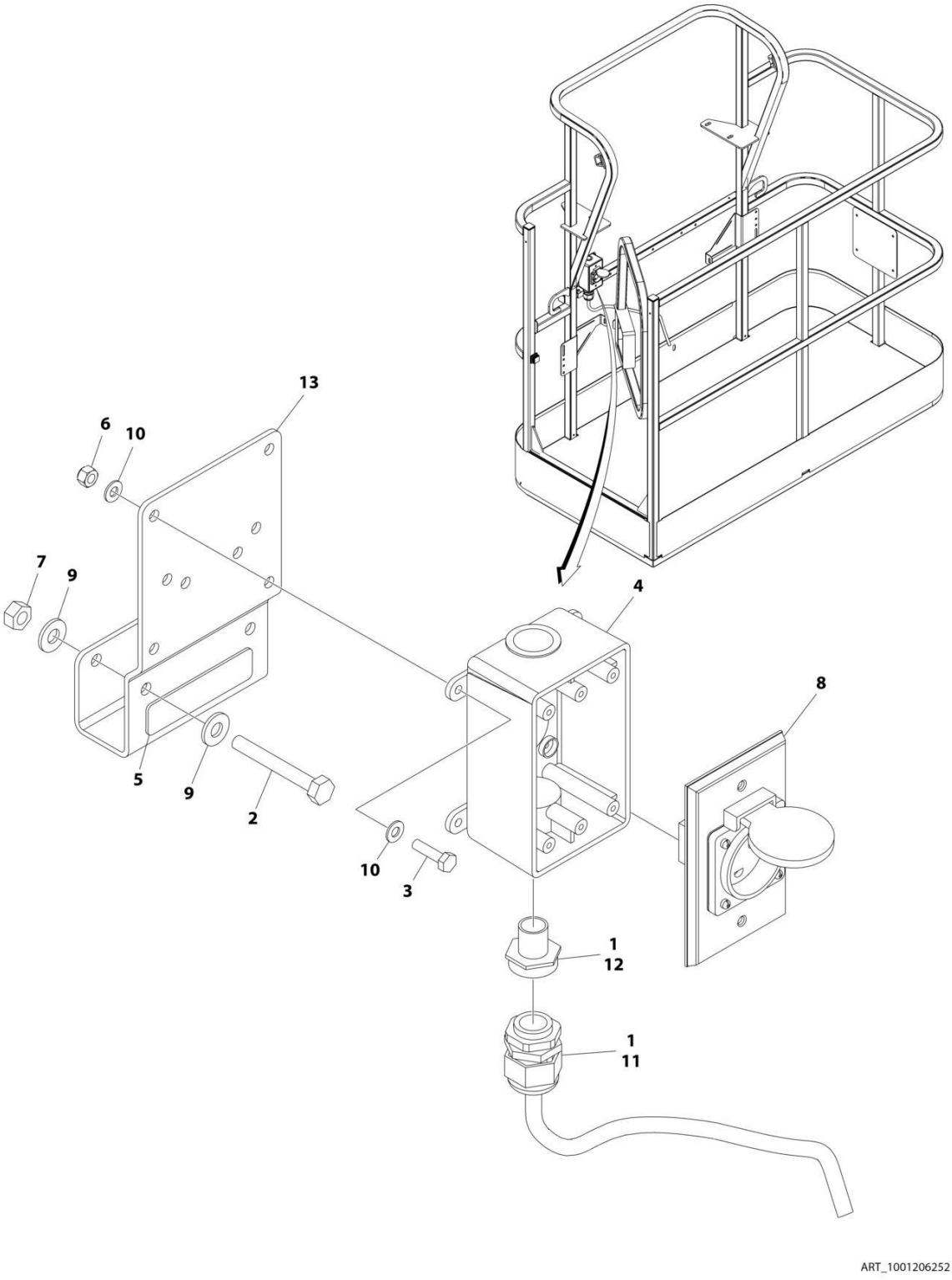

FIGURE 8-18. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 KEYED GROUND (2X4 BOX) WITH 4000W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206252	Ref	AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 2x4 BOX KEYED GROUND	A
1	0100020	AR	Sealant, Pipe	
2	0641416	2	Bolt 1/4 x 2	
3	0700408	4	Bolt M4 x 16	
4	0861731	1	Box, Switch	
5	3251242	1	Decal - 240V/50Hz	
6	3290405	4	Nut M4	
7	3311405	2	Nut 1/4	
8	4461246	1	Receptacle	
9	4711400	4	Washer 1/4	
10	4811400	8	Washer M4	
11	1001101191	1	Connector, Strain Relief	
12	1001101197	1	Adapter	
13	1001193018	1	Bracket, AC Receptacle	
14	1001205958	3	Terminal (Not Shown)	

FIGURE 8-19. AC BOX AT PLATFORM INSTALLATION - 240V (WITH 4000W GENERATOR) (ALL SPECS EXCEPT AUSTRALIAN & CE & UK CA SPECS)

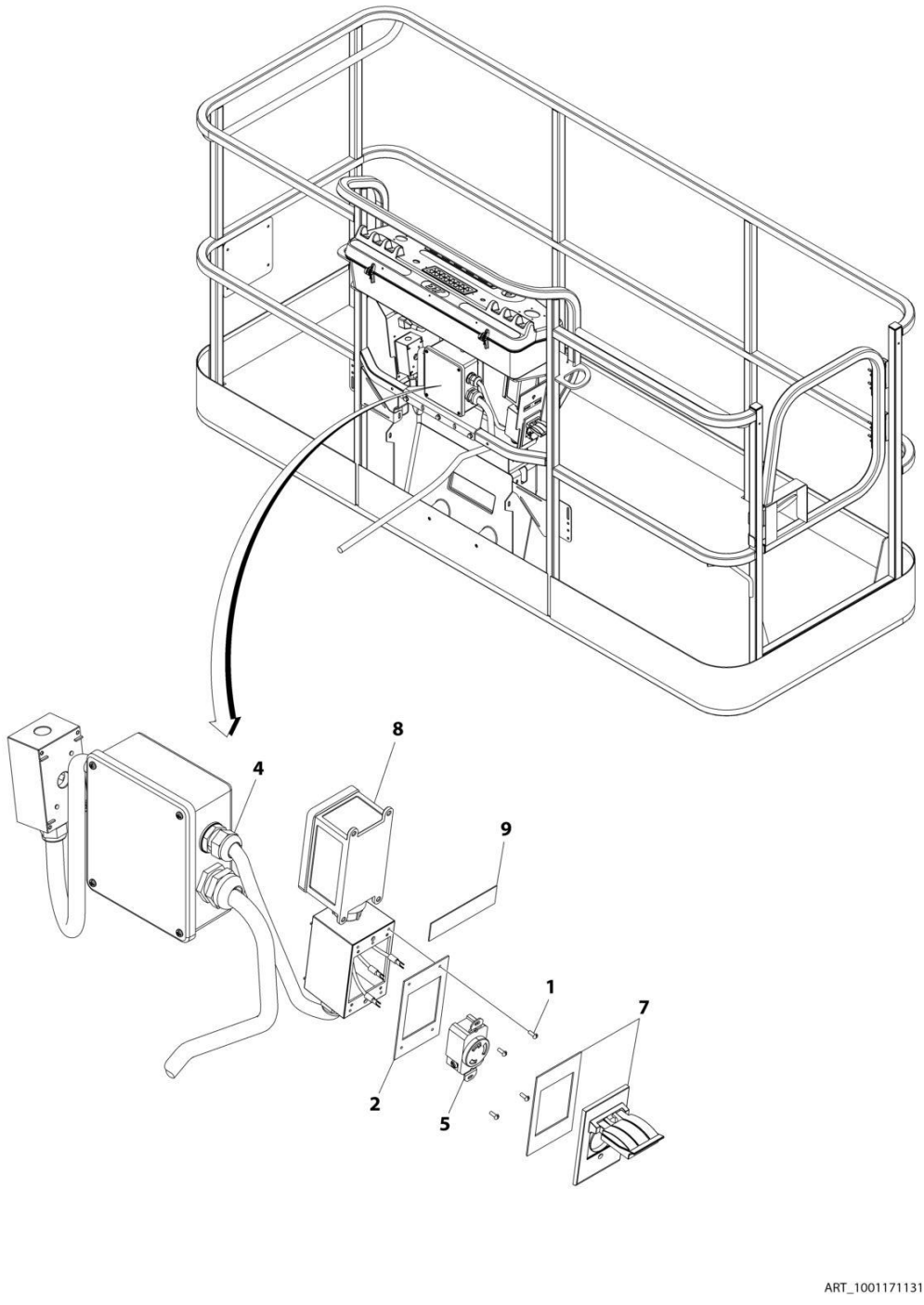

FIGURE 8-19. AC BOX AT PLATFORM INSTALLATION - 240V (WITH 4000W GENERATOR) (ALL SPECS EXCEPT AUSTRALIAN & CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171131	Ref	AC BOX AT PLATFORM INSTALLATION - 240V RECEPTACLE	B
1	3910606	4	Screw 6 x 3/8	
2	3960422	1	Gasket	
3	4240018	AR	Tie-Strap (Not Shown)	
4	4460425	1	Connector, Strain Relief	
5	1001176862	1	Receptacle	
7	1001110872	1	Cover, Receptacle	
8	1001159120	1	Receptacle/Breaker Box Assembly	
8	1001148675	1	Box, Receptacle	
8	1001159118	1	Breaker GFCI 30Amp 240VAC	
8	4460612	1	Connector, Strain Relief	
8	1001159119	1	Connector (Between Boxes)	
9	1705374	1	Decal - 240V/60Hz	

FIGURE 8-20. AC BOX AT PLATFORM INSTALLATION - 240V (WITH 7500W SKYPOWER GENERATOR) (ALL SPECS EXCEPT AUSTRALIAN, CE & UK CA SPECS)

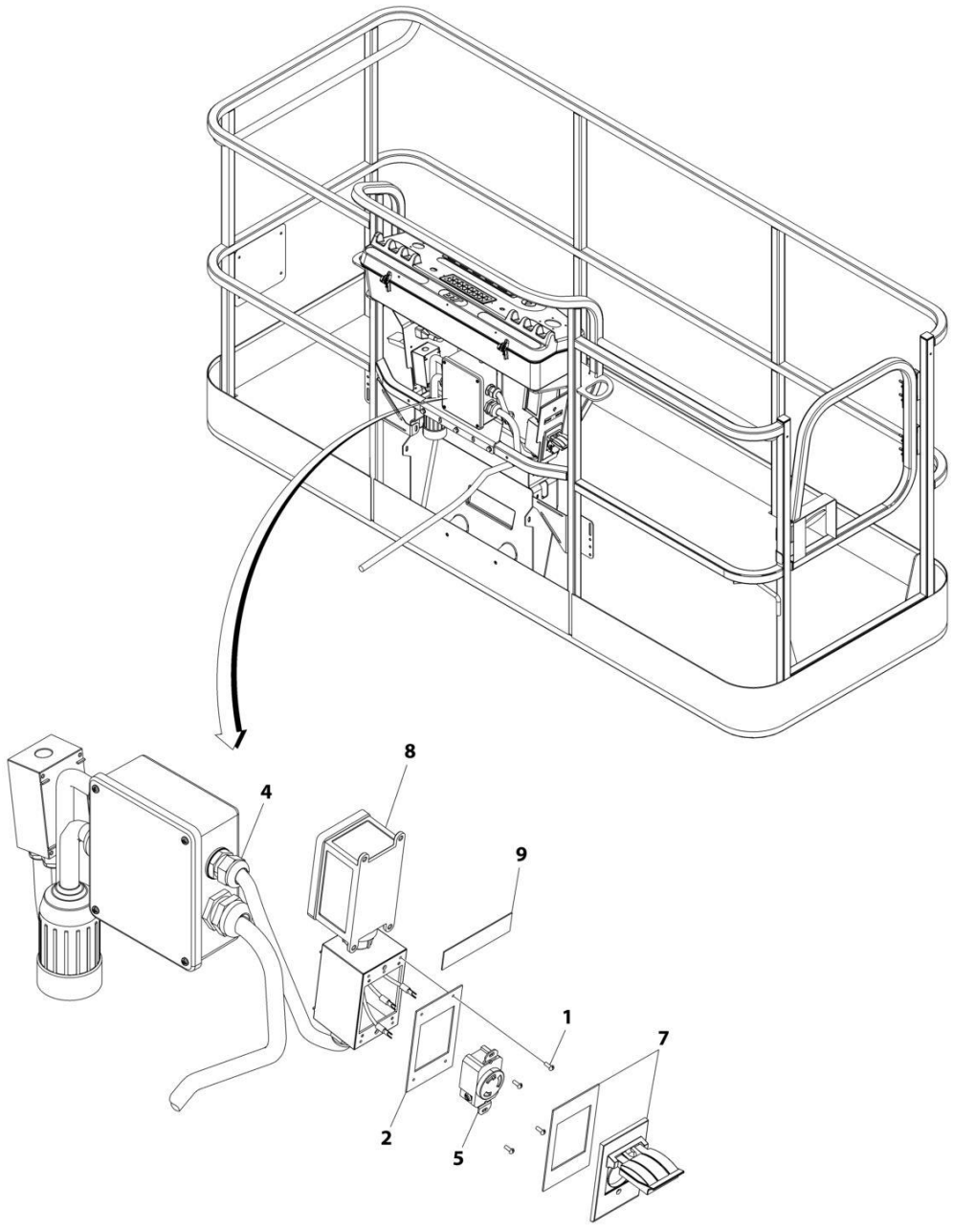

FIGURE 8-20. AC BOX AT PLATFORM INSTALLATION - 240V (WITH 7500W SKYPOWER GENERATOR) (ALL SPECS EXCEPT AUSTRALIAN, CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159121	Ref	AC BOX AT PLATFORM INSTALLATION - 240V RECEPTACLE	B
1	3910606	4	Screw 6 x 3/8	
2	3960422	1	Gasket	
3	4240018	AR	Tie-Strap (Not Shown)	
4	4460425	1	Connector, Strain Relief	
5	4460958	1	Receptacle	
7	1001110872	1	Cover, Receptacle	
8	1001159120	1	Receptacle/Breaker Box Assembly	
8	1001148675	1	Box, Receptacle	
8	1001159118	1	Breaker Box Assembly	
8	4460612	1	Connector, Strain Relief	
8	1001159119	1	Connector (Between Boxes)	
9	1705374	1	Decal - 240V/60Hz	

FIGURE 8-21. AC LEAD INSTALLATION (ANSI EXPORT, AUSTRALIAN, CE & UK CA SPECS)

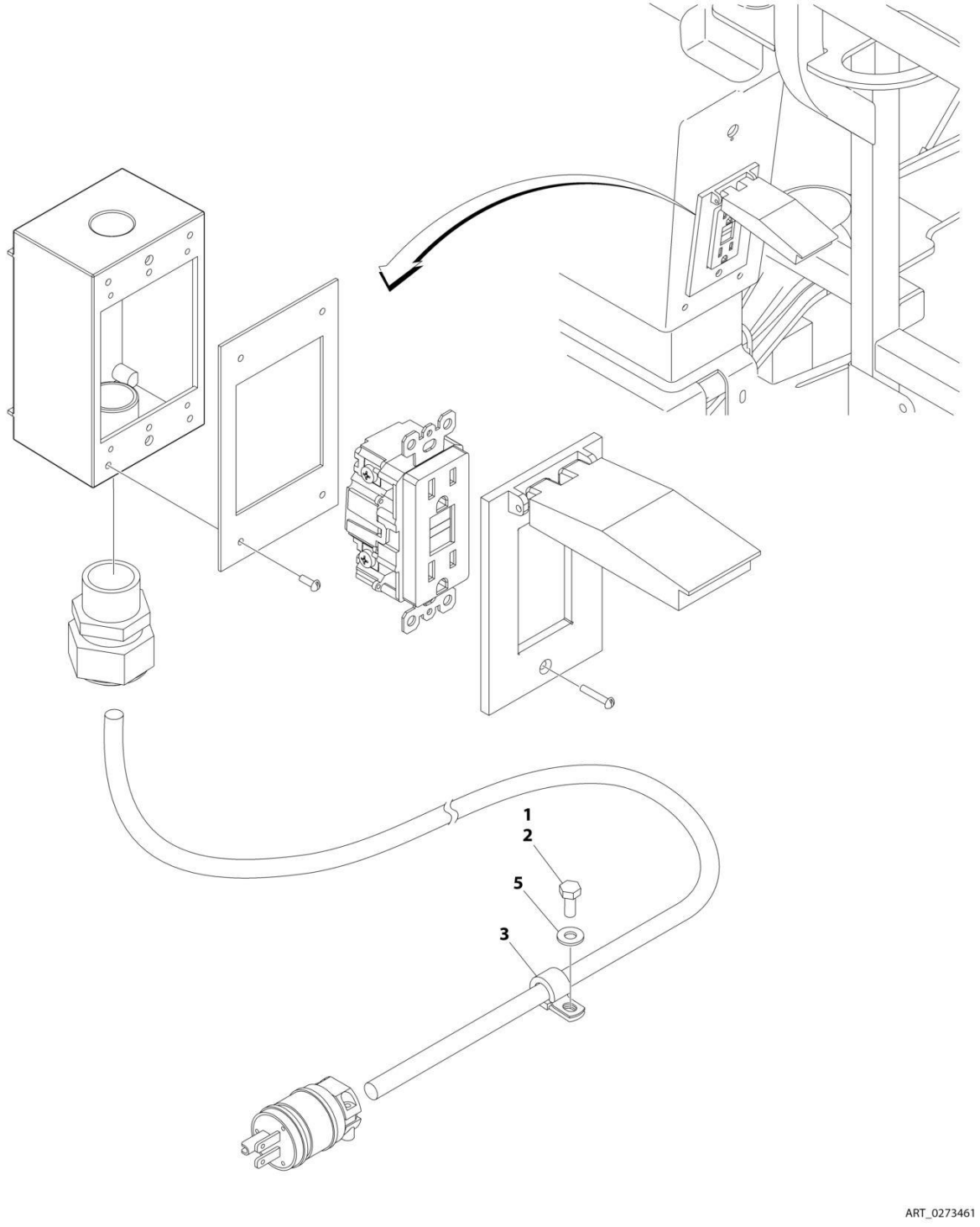

FIGURE 8-21. AC LEAD INSTALLATION (ANSI EXPORT, AUSTRALIAN, CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273461	Ref	AC LEAD INSTALLATION (CE & UK CA SPECS)	B
1	0100011	AR	Compound, Locking	
2	0641405	1	Bolt 1/4 x 5/8	
3	1320041	1	Clamp	
5	4711400	1	Washer 1/4	

FIGURE 8-22. AC 10 AMP BREAKER BOX INSTALLATION (CE & UK CA SPECS)

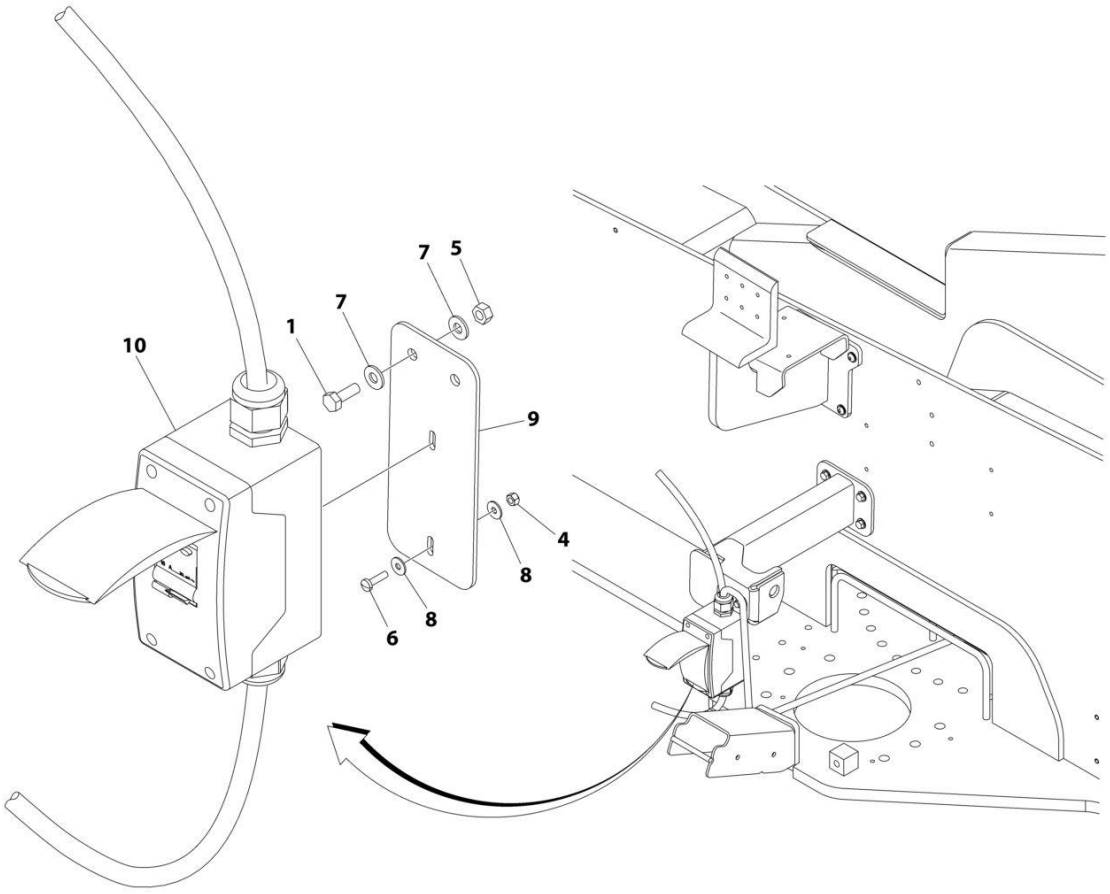

FIGURE 8-22. AC 10 AMP BREAKER BOX INSTALLATION (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001109557	Ref	AC 10 AMP BREAKER BOX INSTALLATION	B
1	0641406	2	Bolt 1/4 x 3/4	
4	3290405	2	Nut M4	
5	0641405	2	Bolt 1/4 x 5/8	
6	4010408	2	Screw M4 x 16	
7	4711400	4	Washer 1/4	
8	1001091102	4	Washer M4	
9	1001096172	1	Bracket	
10	1001109648	1	Breaker Box Kit - 10 Amp (See Separate Breakdown in this Section)	

FIGURE 8-23. AC 16 AMP BREAKER BOX INSTALLATION (CE & UK CA SPECS)

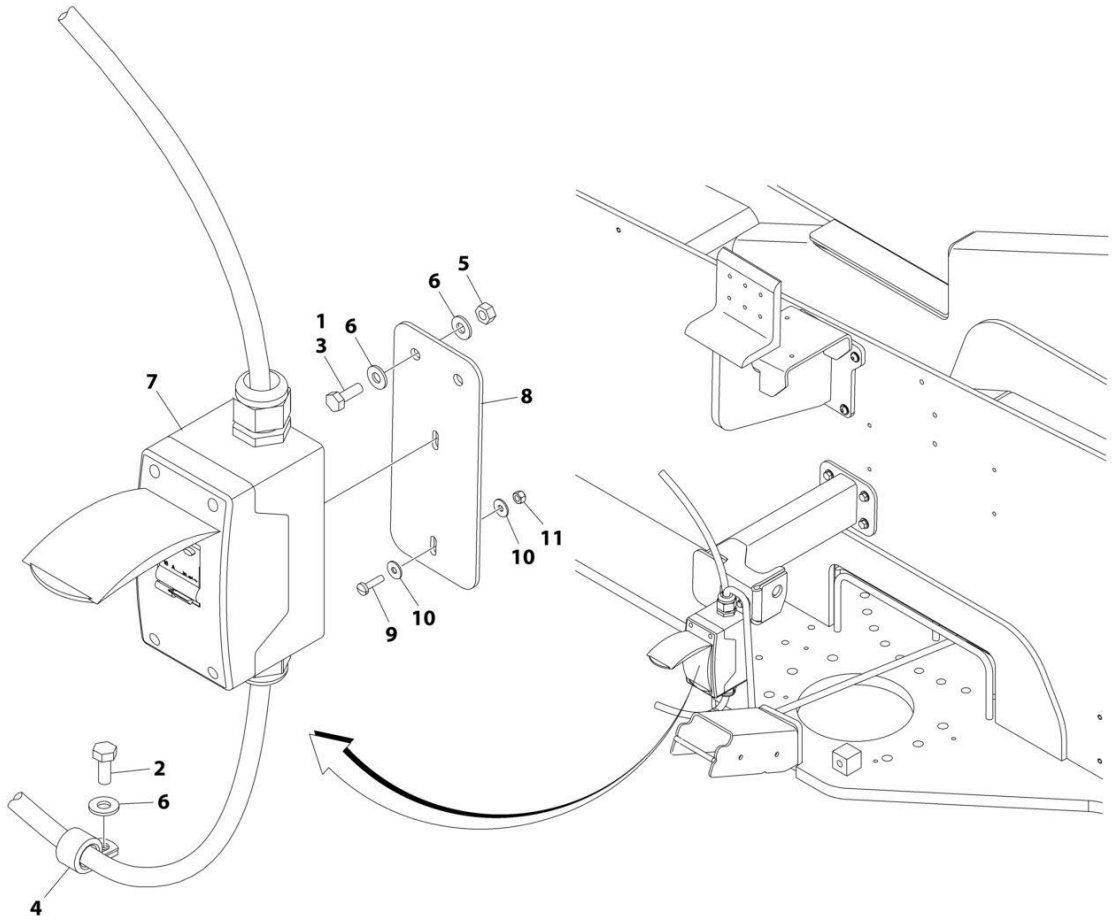

FIGURE 8-23. AC 16 AMP BREAKER BOX INSTALLATION (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096163	Ref	AC 16 AMP BREAKER BOX INSTALLATION (CE & UK CA SPECS)	E
1	0100011	AR	Compound, Locking	
2	0641405	1	Bolt 1/4 x 5/8	
3	0641406	2	Bolt 1/4 x 3/4	
4	1320041	1	Clamp	
5	3311405	2	Nut 1/4	
6	4711400	5	Washer 1/4	
7	1001109654	1	Breaker Box Kit - 16 Amp (See Separate Breakdown in this Section)	
8	1001096172	1	Bracket	
9	4010408	2	Screw M4 x 16	
10	1001091102	4	Washer M4	
11	3290405	2	Nut M4	

FIGURE 8-24. ANALYZER CALBE HARNESS

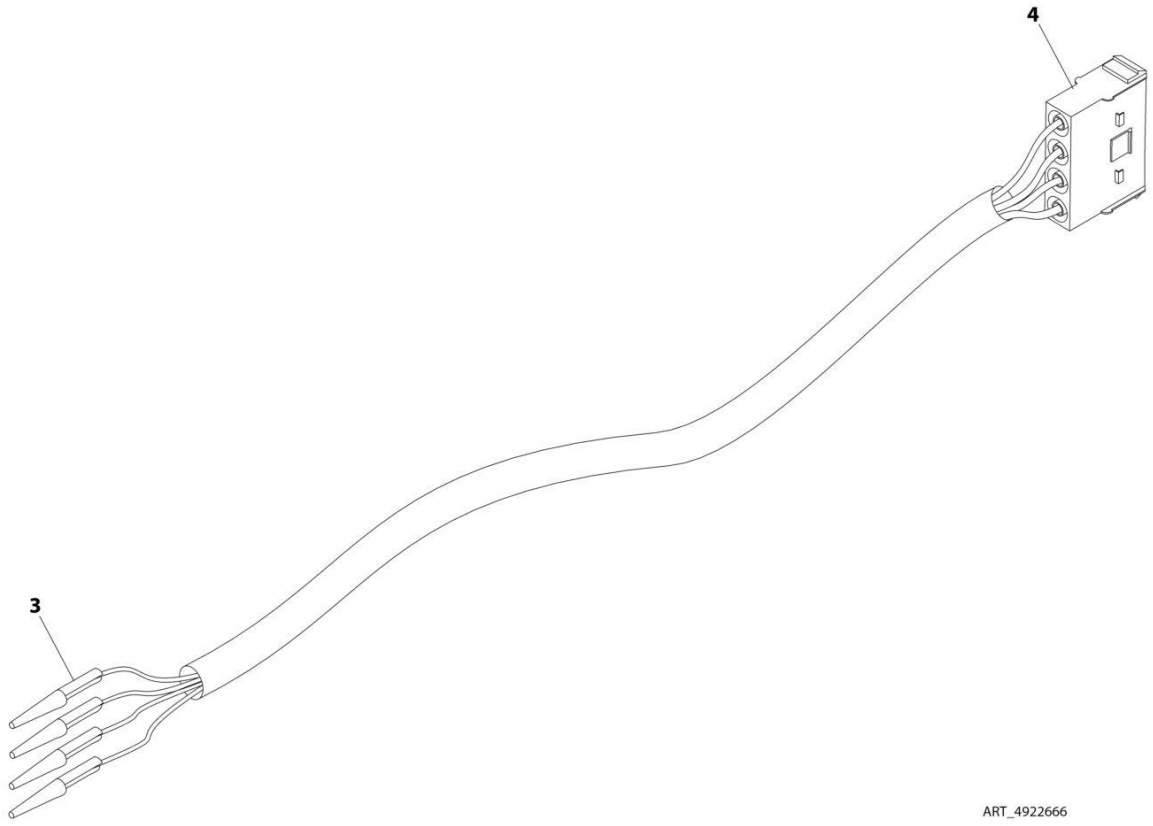

FIGURE 8-24. ANALYZER CALBE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922666	Ref	ANALYZER CABLE HARNESS	C
3	4460226	4	Socket, Female	
4	4460761	1	Connector - 4 Position	
4	4460227	4	Pin, Male	

FIGURE 8-25. AXLE POWER TRACK HARNESS ASSEMBLY

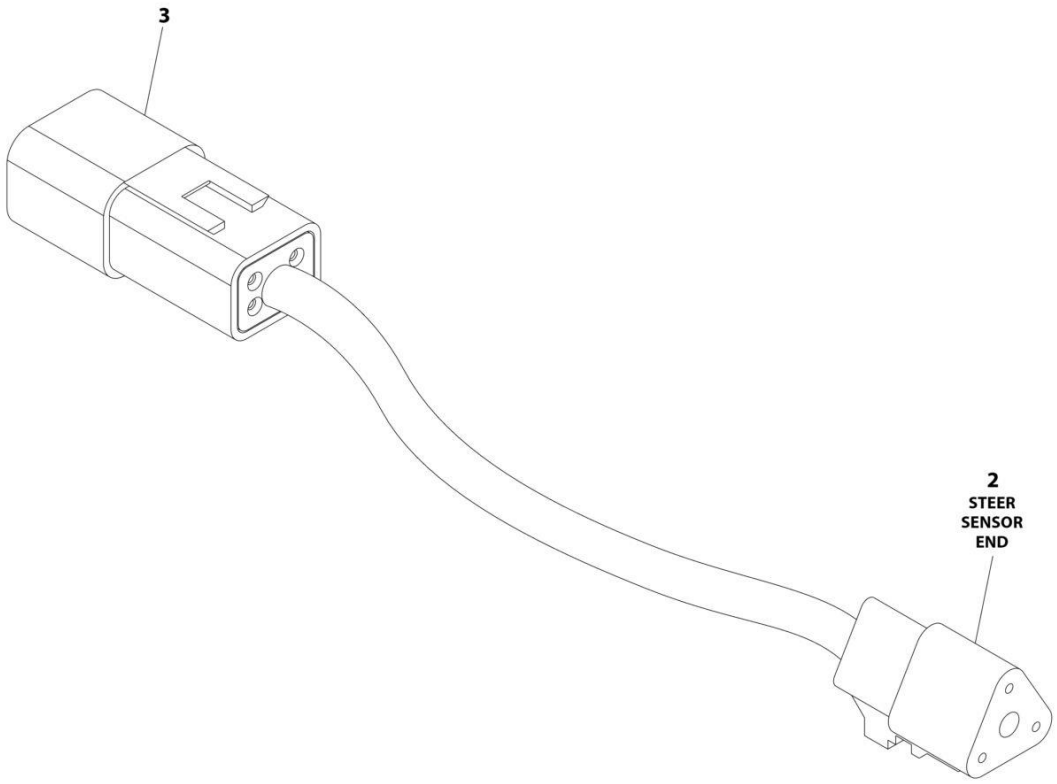

FIGURE 8-25. AXLE POWER TRACK HARNESS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922718	Ref	AXLE POWER TRACK HARNESS ASSEMBLY	E
2	4460539	1	Connector - 3 Position	
2	4460944	3	Socket, Female	
3	4460932	1	Connector - 4 Position	
3	4460943	4	Pin, Male	

FIGURE 8-26. BATTERY DISCONNECT INSTALLATION

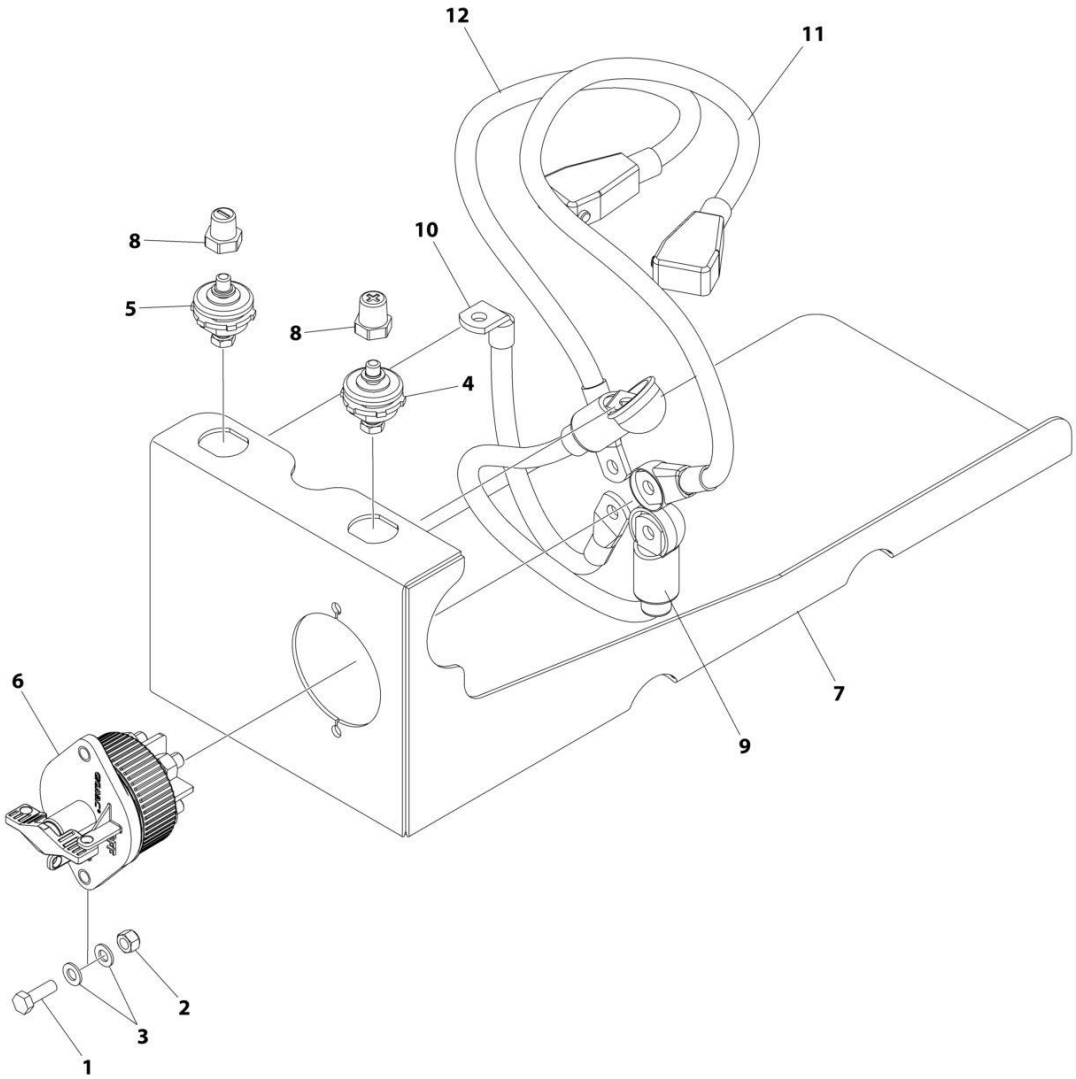

FIGURE 8-26. BATTERY DISCONNECT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242825	Ref	BATTERY DISCONNECT INSTALLATION	B
1	0760812	2	Bolt M8 x 25	
2	3290805	2	Nut M8	
3	4811900	4	Washer M8	
4	1001214570	1	Connector (Red)	
5	1001214571	1	Connector (Black)	
6	1001225346	1	Switch, Disconnect	
7	1001242824	1	Mount	
8	1001206476	1	Connector	
9	1001236375	1	Cable (Positive)	
10	1001236376	1	Cable (Negative)	
11	1001236377	1	Cable (Positive)	
12	1001236378	1	Cable (Negative)	

FIGURE 8-27. B.L.A.M. HARNESS

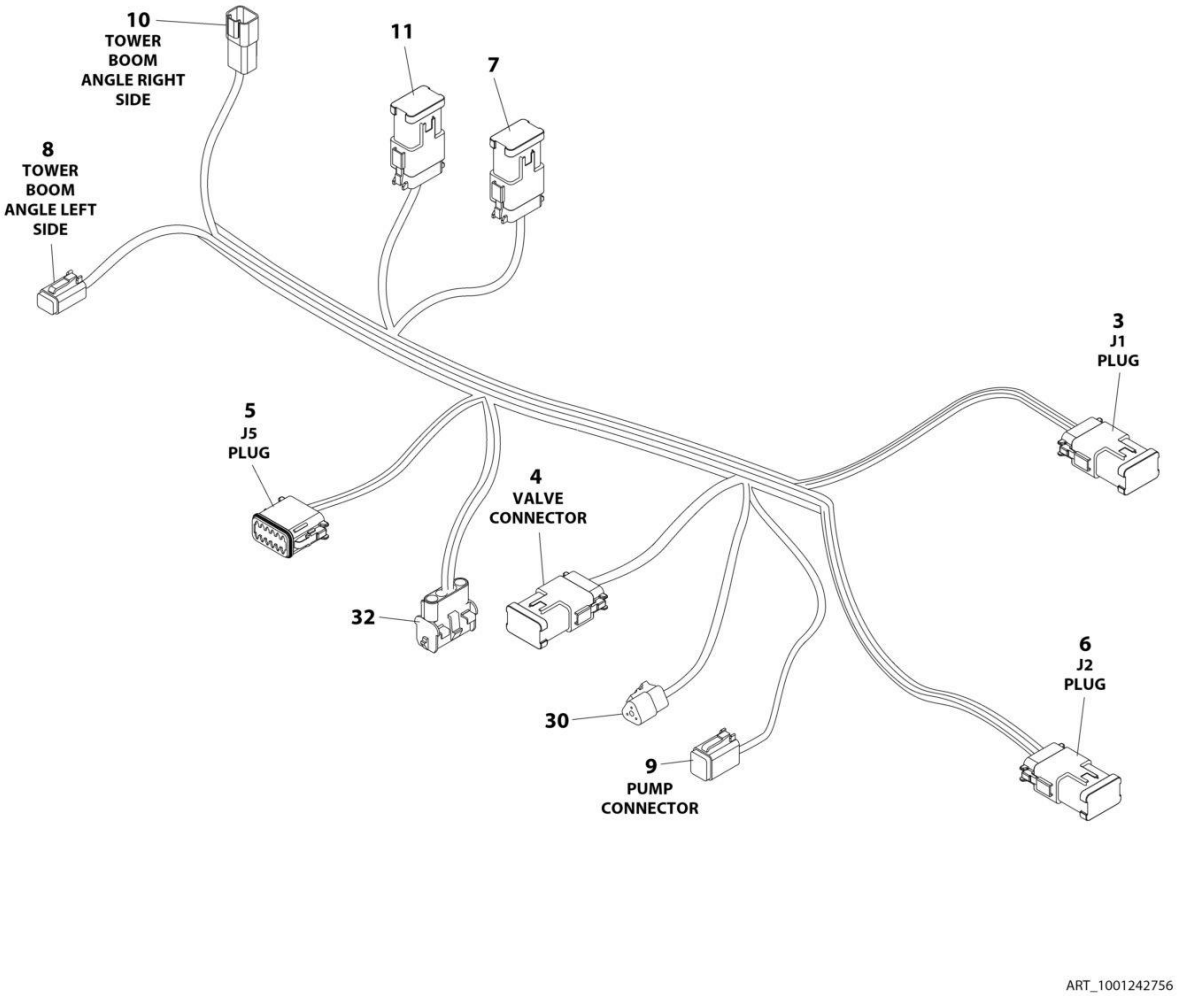

FIGURE 8-27. B.L.A.M. HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001242756	Ref	B.L.A.M. HARNESS	D
3	1001270339	1	Connector - 12 Position (Gray)	
3	4460466	7	Plug, Seal	
3	4460944	3	Socket, Female	
3	4460942	1	Socket, Female	
4	4460970	1	Connector - 12 Position	
4	4460943	3	Pin, Male (Gold)	
4	4460464	6	Pin, Male	
4	4460941	3	Pin, Male	
5	1001239345	1	Connector - 12 Position (Brown)	
5	4460466	5	Plug, Seal	
5	4460465	2	Socket, Female	
5	4460944	4	Socket, Female	
6	1001270340	1	Connector - 12 Position (Black)	
6	4460466	8	Plug, Seal	
6	4460944	2	Socket, Female	
6	4460465	2	Socket, Female	
7	4460836	1	Connector - 12 Position (Black)	
7	4460466	8	Plug, Seal	
7	4460465	4	Socket, Female	
7	4460942	2	Socket, Female	
7	1001249244	1	Connector - 12 Position Buss Bar	
8	4460884	1	Connector - 4 Position (Gray)	
8	4460944	4	Socket, Female	
9	4460894	1	Connector - 6 Position (Gray)	
9	4460465	5	Socket, Female	
9	4460466	2	Plug, Seal	
10	4460932	1	Connector - 4 Position (Gray)	
10	4460943	4	Pin, Male	
11	4460836	1	Plug, Male - 12 Position (Black)	
11	4460466	6	Plug, Seal	
11	4460465	5	Socket, Female	
11	1001249244	1	Connector - 12 Position Buss Bar	
18	4240033	7	Tie-Strap (Not Shown)	
30	4460539	1	Connector - 3 Position	
30	4460944	3	Socket, Female	
30	4460121	1	Wire Cap	
32	4460761	1	Connector - 4 Position	
32	4460227	4	Pin, Male	

FIGURE 8-28. BOOM CABLE INSTALLATION (ANSI, ANSI EXPORT AND JAPANESE SPECS)

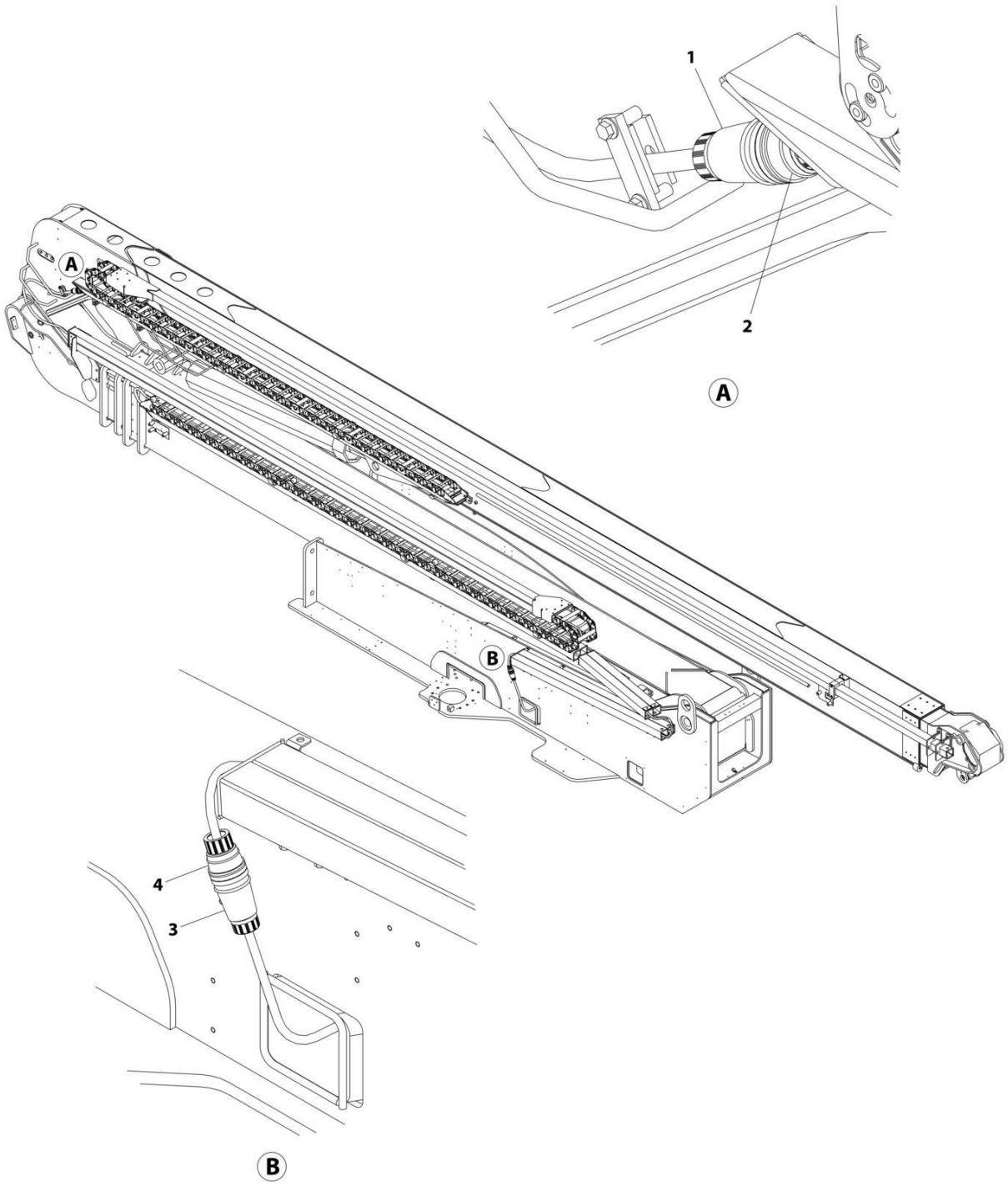

FIGURE 8-28. BOOM CABLE INSTALLATION (ANSI, ANSI EXPORT AND JAPANESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273474	Ref	BOOM CABLE INSTALLATION	C
1	1001227932	1	Tower Boom AC Cable Harness	
1	1001213585	1	Receptacle, Female	
2	1001227933	1	Main Boom AC Cable Harness	
2	1001213584	1	Plug, Male	
3	1001227934	1	Turntable AC Cable Harness	
3	1001213585	1	Receptacle, Female	
4	1001213584	1	Plug, Male	

FIGURE 8-29. BOOM CABLE INSTALLATION (AUSTRALIAN, CE & UK CA SPECS)

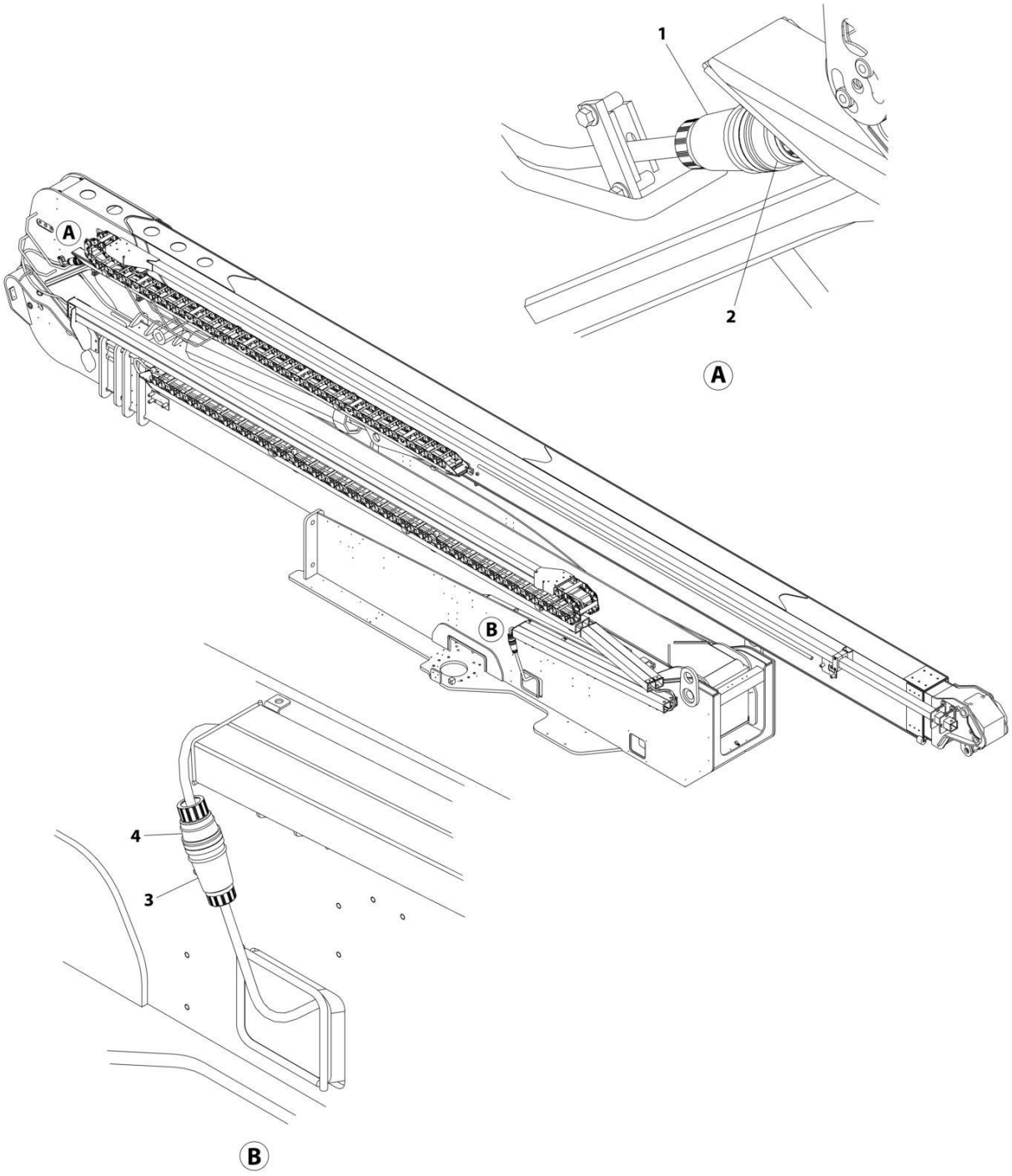

FIGURE 8-29. BOOM CABLE INSTALLATION (AUSTRALIAN, CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273475	Ref	BOOM CABLE INSTALLATION	E
1	1001227935	1	Tower Boom AC Cable Harness	
1	1001213585	1	Receptacle, Female	
2	1001227936	1	Main Boom AC Cable Harness	
2	1001213584	1	Plug, Male	
3	1001227937	1	Turntable AC Cable Harness	
3	1001213585	1	Receptacle, Female	
4	1001213584	1	Plug, Male	

FIGURE 8-30. BOOM CABLE INSTALLATION - 4000W 60HZ GENERATOR

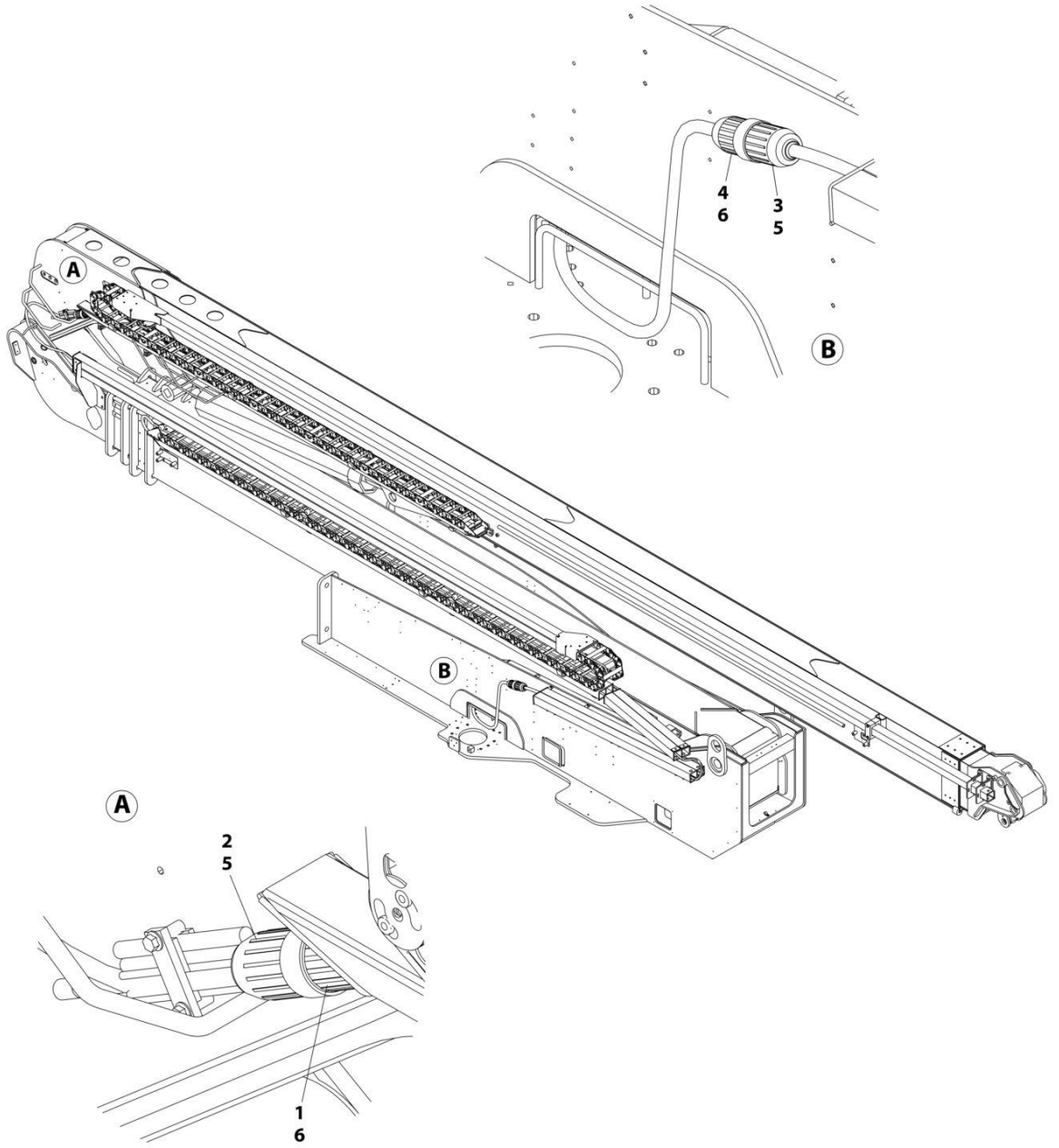

FIGURE 8-30. BOOM CABLE INSTALLATION - 4000W 60HZ GENERATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161049	Ref	BOOM CABLE INSTALLATION - 4000W 60HZ GENERATOR	A
1	1001161042	1	Main Boom 4000W Generator Cable Harness	
1	1001131969	85 ft /25.9m	Cable, Electrical 8/4	
1	4460962	1	Plug, Male	
2	1001161043	1	Tower Boom 4000W Generator Cable Harness	
2	1001131969	71 ft /21.6m	Cable, Electrical 8/4	
2	4460963	1	Plug, Female	
3	4460962	1	Plug, Male	
4	1001161045	1	Turntable 4000W Generator Cable Harness	
4	1001131969	14 ft /4.27m	Cable, Electrical 8/4	
4	4460963	1	Plug, Female	
5	1671092	1	Cover, Male Connector	
6	1671093	1	Cover, Female Connector	

FIGURE 8-31. BOOM CABLE INSTALLATION - 4000W 50HZ GENERATOR

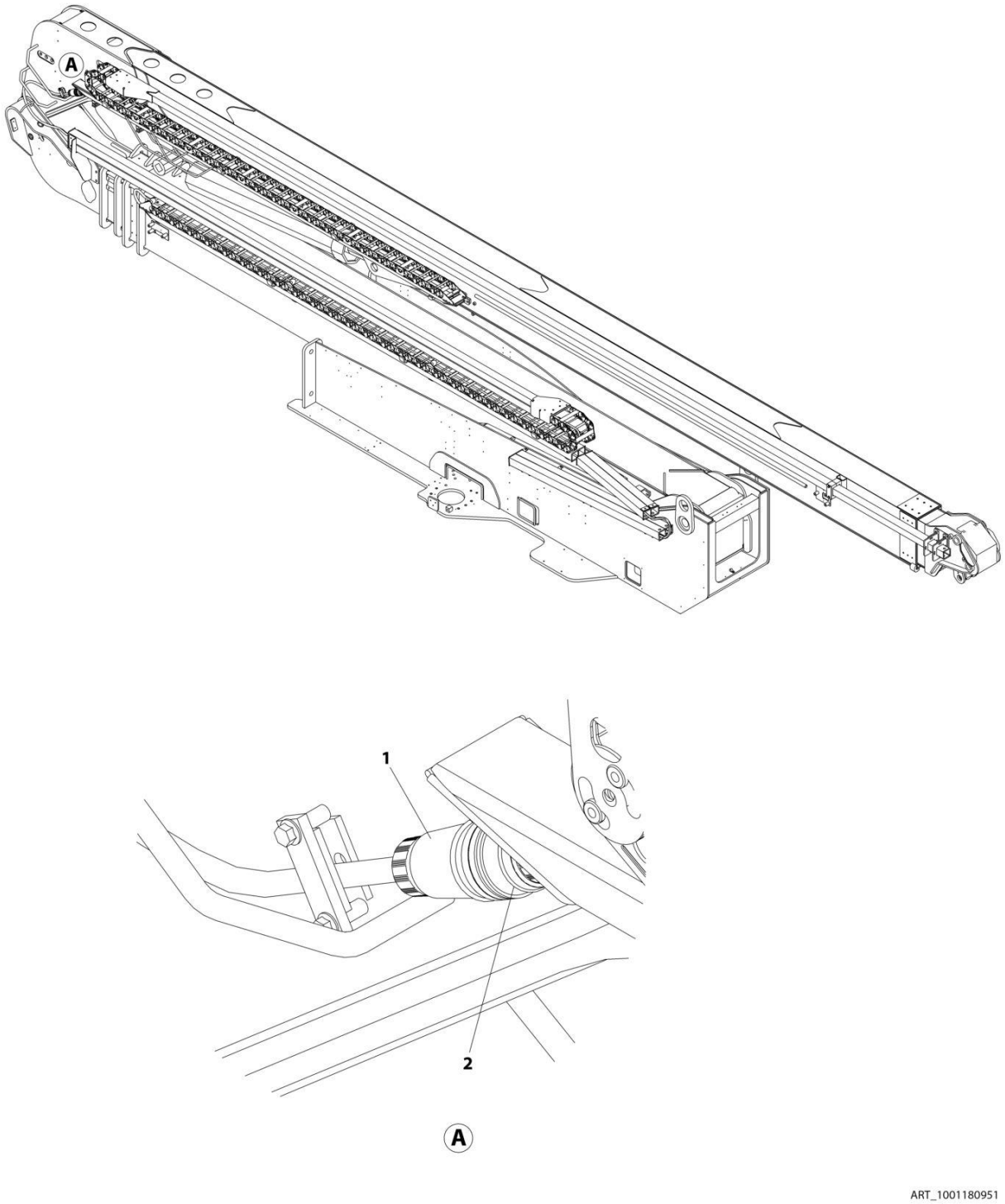

FIGURE 8-31. BOOM CABLE INSTALLATION - 4000W 50HZ GENERATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180951	Ref	BOOM CABLE INSTALLATION - 4000W 50HZ GENERATOR	B
1	1001227935	1	Tower Boom AC Cable Harness	
1	1001213585	1	Receptacle, Female	
2	1001227936	1	Main Boom AC Cable Harness	
2	1001213584	1	Plug, Male	

FIGURE 8-32. BOOM CABLE INSTALLATION - 7500W GENERATOR

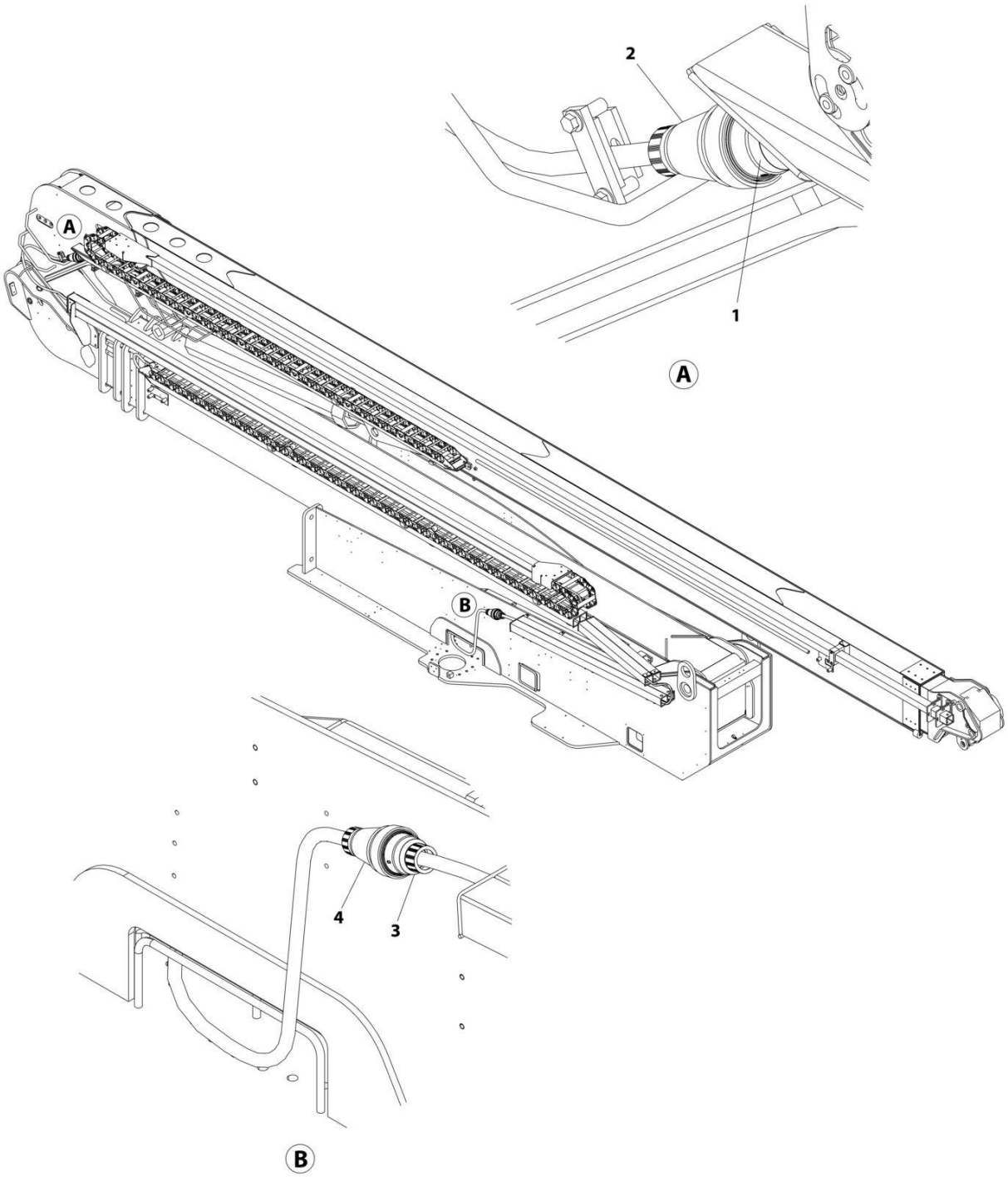

FIGURE 8-32. BOOM CABLE INSTALLATION - 7500W GENERATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273476	Ref	BOOM CABLE INSTALLATION - 7500W GENERATOR	D
1	1001226294	1	Main Boom SkyPower Cable Harness	
1	1001218622	1	Plug, Male	
2	1001226293	1	Tower Boom SkyPower Cable Harness	
2	1001218623	1	Plug, Female	
3	1001218622	1	Plug, Male	
4	1001226306	1	Turntable SkyPower Cable Harness	
4	1001218623	1	Plug, Female	

FIGURE 8-33. BREAKER BOX KIT - 10 AMP (2500W GENERATOR)

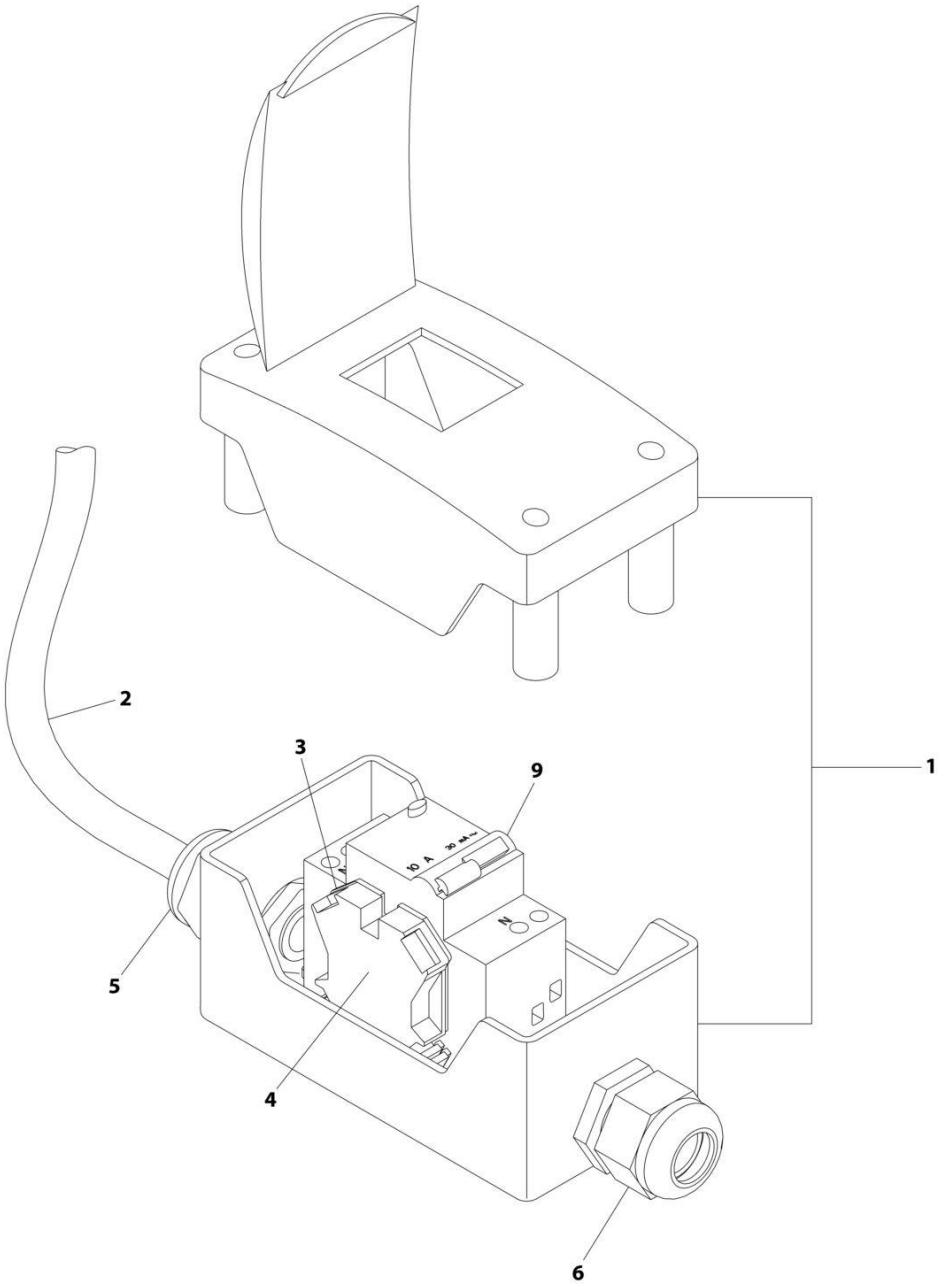

FIGURE 8-33. BREAKER BOX KIT - 10 AMP (2500W GENERATOR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001109648	Ref	BREAKER BOX KIT - 10 AMP (2500W GENERATOR)	B
1	0861880	1	Box, Breaker	
2	1060908	12 ft /3.6m	Cable, Electrical 12/3	
3	4460956	1	Barrier, Terminal Block End	
4	4460957	1	Block, Terminal	
5	1001097150	1	Connector, Strain Relief	
6	1001101191	1	Connector, Strain Relief	
9	1001181046	1	Breaker 30mA/16Amp	

FIGURE 8-34. BREAKER BOX KIT - 16 AMP (2500W GENERATOR)

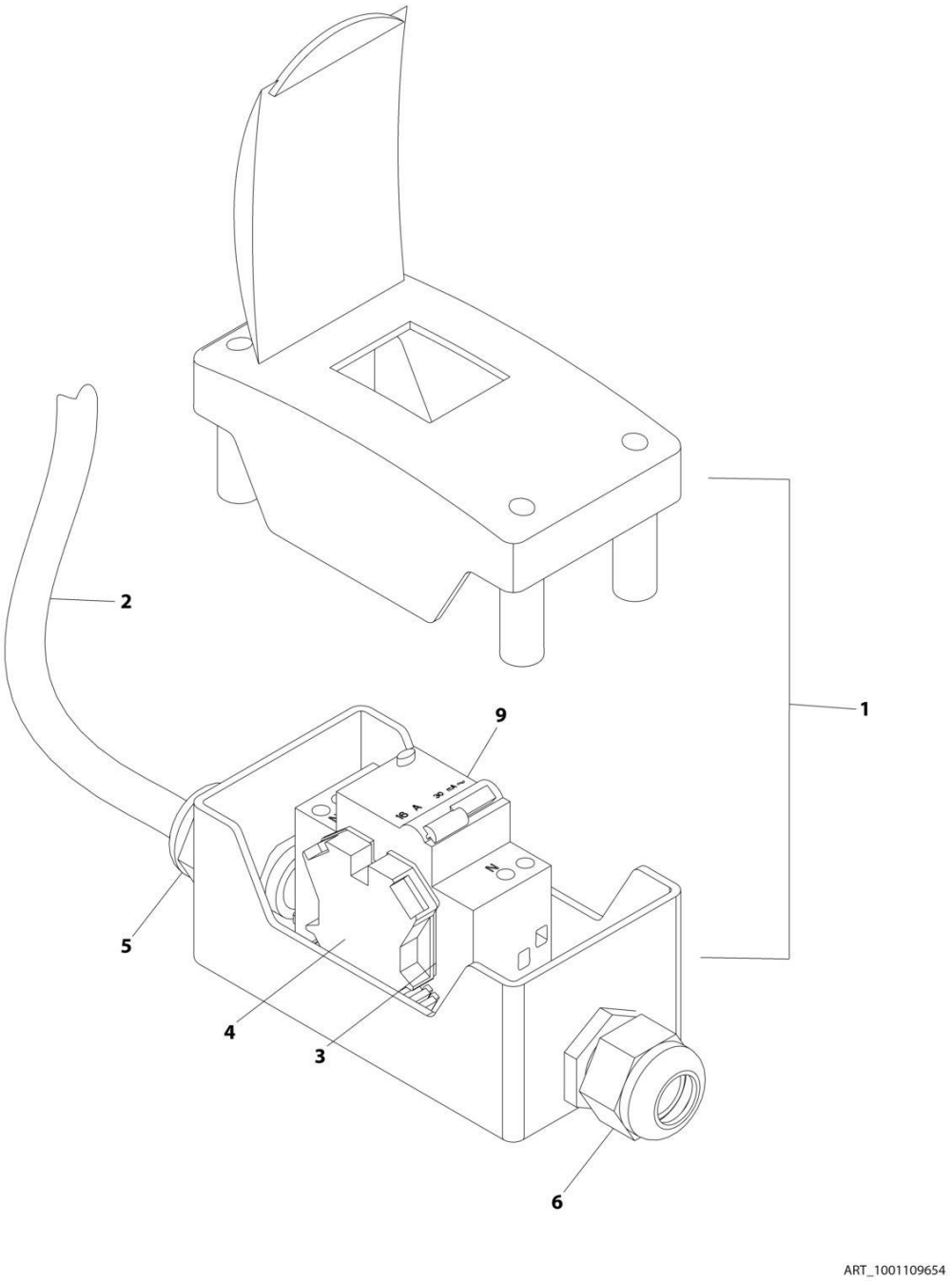

FIGURE 8-34. BREAKER BOX KIT - 16 AMP (2500W GENERATOR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001109654	Ref	BREAKER BOX KIT	C
1	0861880	1	Box, Breaker	
2	1060908	12 ft/ 3.6m	Cable 12/3	
3	4460956	1	Barrier, Terminal Block End	
4	4460957	1	Block, Terminal	
5	1001097150	1	Connector, Strain Relief	
6	1001101191	1	Connector, Strain Relief	
9	1001181045	1	Breaker - 30mA/16Amp	
10	1001100231	3	Terminal (Not Shown)	

FIGURE 8-35. BREAKER BOX KIT - 16 AMP (4000W GENERATOR)

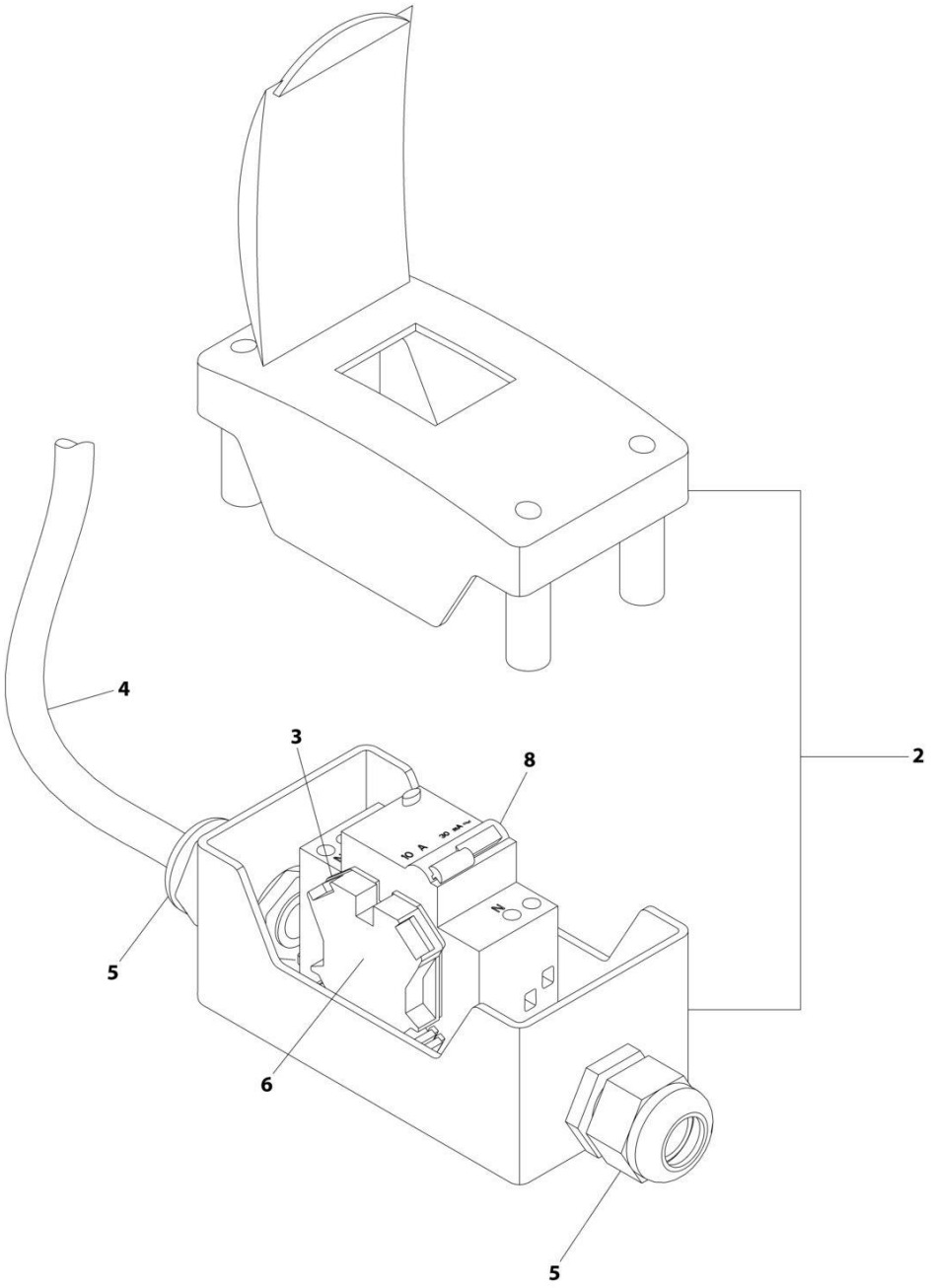

FIGURE 8-35. BREAKER BOX KIT - 16 AMP (4000W GENERATOR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165368	Ref	BREAKER BOX KIT	B
2	0861880	1	Box, Circuit Breaker	
3	4460956	1	Barrier, Terminal Block End	
4	1060545	12 ft/ 3.6m	Cable, Electrical 10/3	
5	1001101191	2	Connector, Strain Relief	
6	4460957	1	Block, Terminal	
8	1001181045	1	Breaker 30mA/16Amp	

FIGURE 8-36. BREAKER BOX KIT - 30MA/16 AMP (WITHOUT GENERATOR)

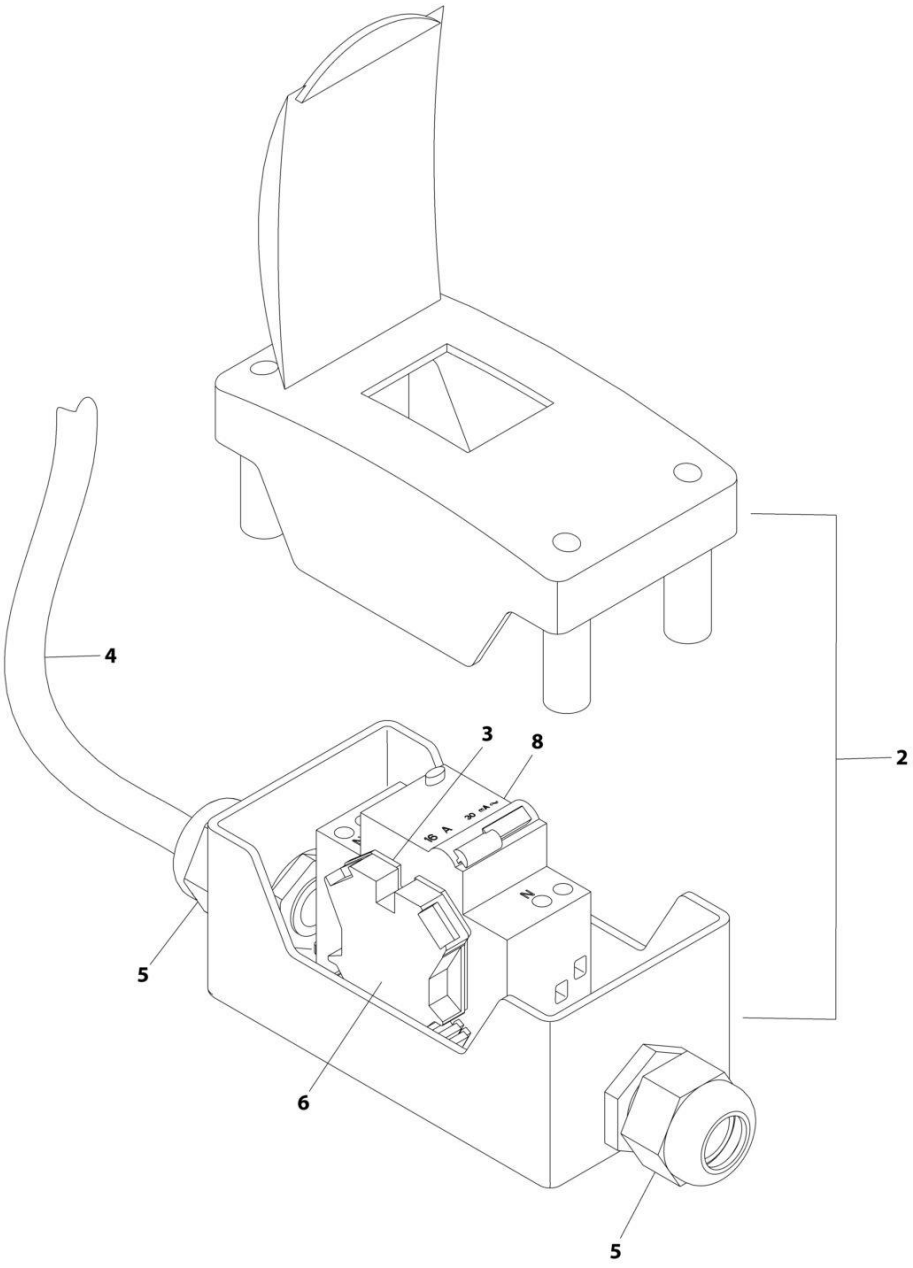

FIGURE 8-36. BREAKER BOX KIT - 30MA/16 AMP (WITHOUT GENERATOR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096070	Ref	BREAKER BOX KIT	E
2	0861880	1	Box	
3	4460956	1	Barrier, Terminal Block End	
4	1060908	12 ft/ 3.6m	Cable, 12/3	
5	1001097150	2	Connector, Strain Relief	
6	4460957	1	Block, Terminal	
8	1001181045	1	Breaker, 16Amp	

FIGURE 8-37. CHASSIS POWER DISTRIBUTION HARNESS

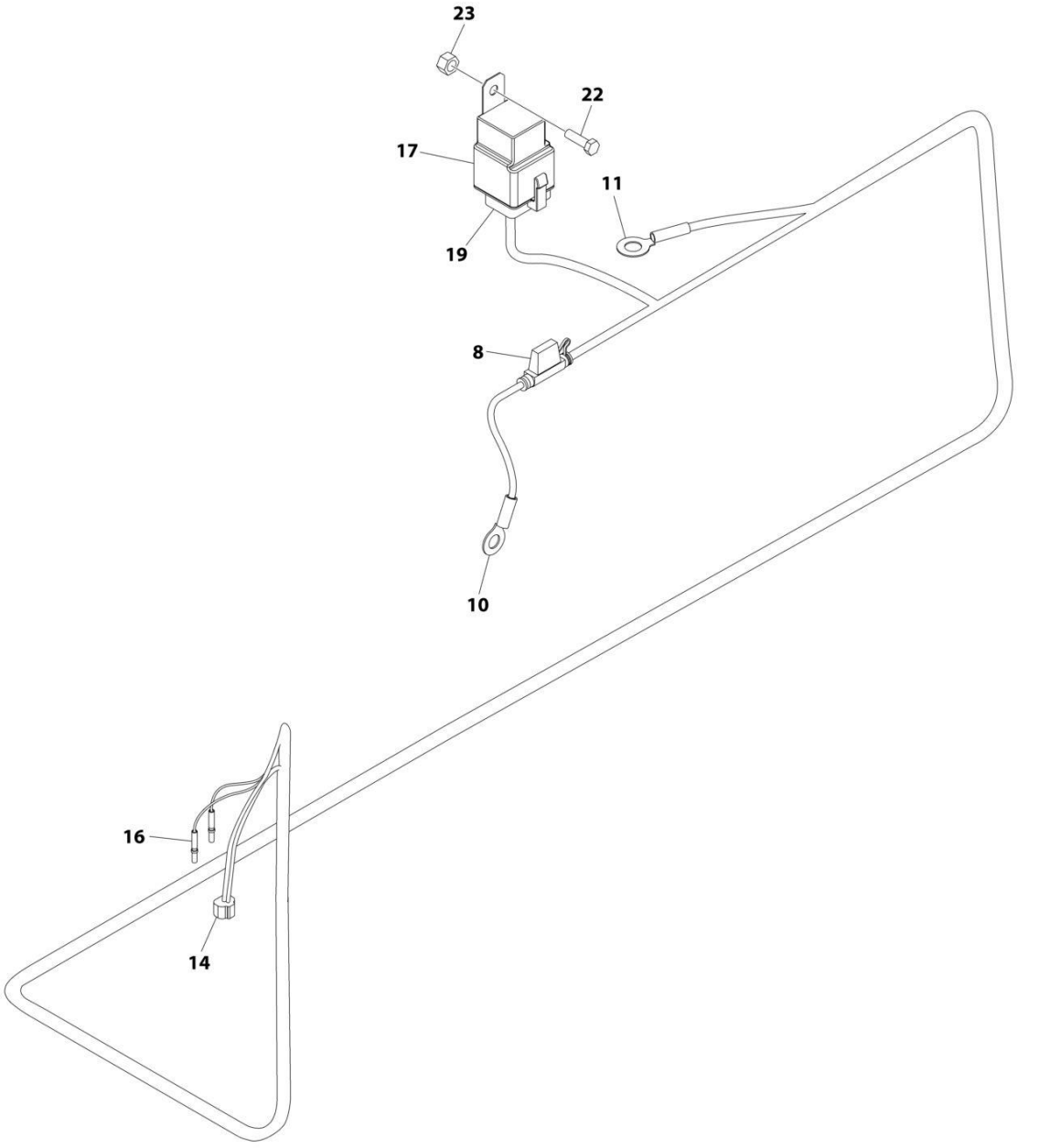

FIGURE 8-37. CHASSIS POWER DISTRIBUTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923382	Ref	CHASSIS POWER DISTRIBUTION HARNESS	E
8	2400066	1	Fuseholder	
8	2400065	1	Fuse 30 Amp	
9	4240032	3	Tie-Strap (Not Shown)	
10	4460019	1	Terminal, Eyelet	
11	4460256	1	Terminal, Eyelet	
14	4460897	1	Connector - 2 Position	
14	4460464	2	Pin, Male	
16	4460942	2	Socket, Female	
17	3740080	1	Relay	
19	4460374	1	Plug, Sealed	
19	4460375	5	Terminal	
19	0100048	AR	Lubricant, Silicone	
22	0641408	1	Bolt 1/4 x 1	
23	3311405	1	Nut 1/4	

FIGURE 8-38. CHASSIS HARNESS ASSEMBLY

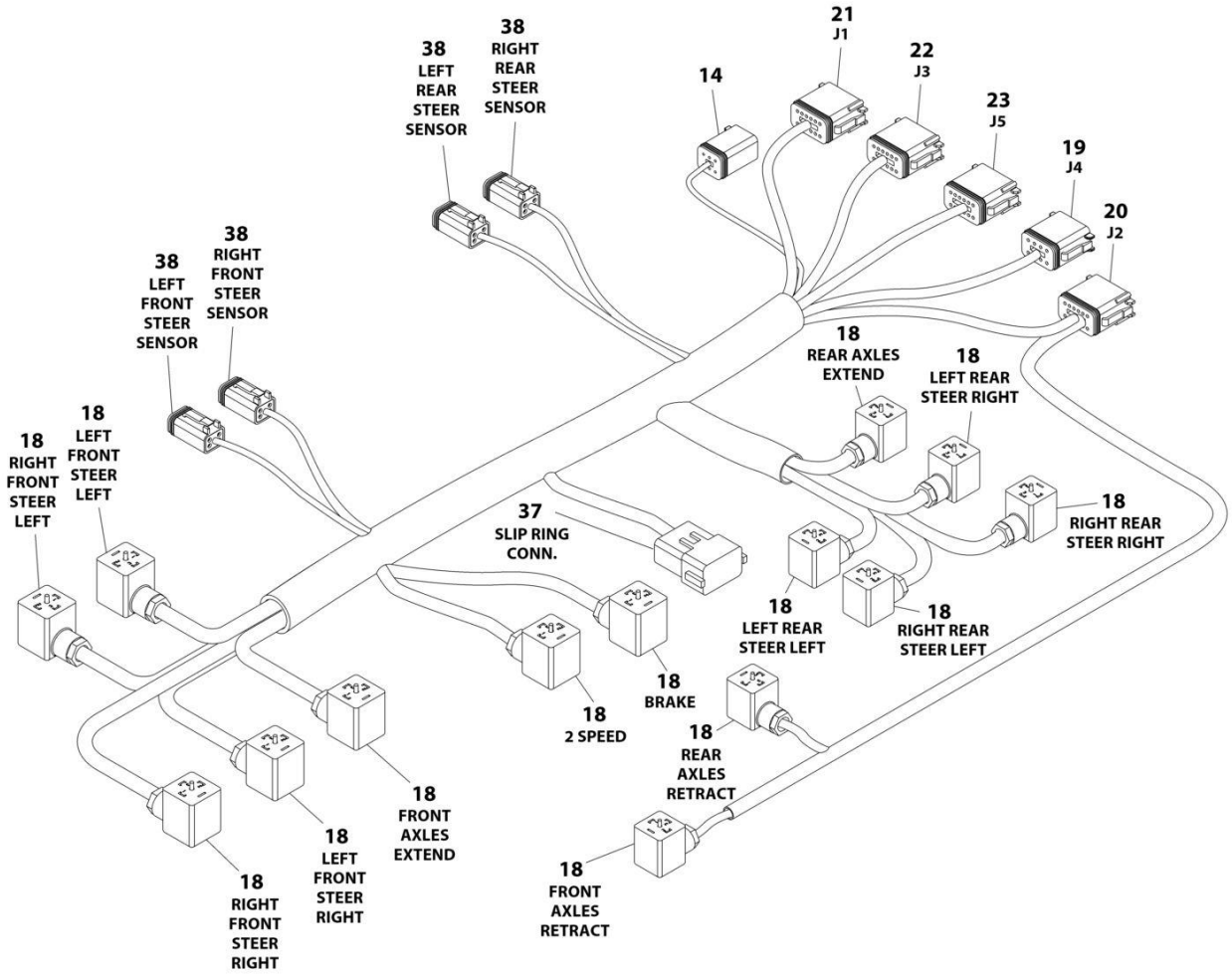

FIGURE 8-38. CHASSIS HARNESS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922696	Ref	CHASSIS HARNESS ASSEMBLY	D
14	4460894	1	Connector - 6 Position	
14	4460465	6	Socket, Female	
14	4460892	1	Connector - 6 Position Buss Bar	
17	4460894	1	Connector - 6 Position (Not Shown)	
17	4460465	6	Socket, Female	
17	4460892	1	Connector - 6 Position Buss Bar	
18	4460880	14	DIN Connector	
19	4460930	1	Connector - 8 Position (Gray)	
19	4460465	1	Socket, Female	
19	4460466	7	Plug, Terminal	
20	4460836	1	Connector - 12 Position (Black)	
20	4460465	6	Socket, Female	
20	4460466	6	Plug, Terminal	
21	4460933	1	Connector - 12 Position (Gray)	
21	4460465	8	Socket, Female	
21	4460466	4	Plug, Terminal	
22	4460934	1	Connector - 12 Position (Green)	
22	4460944	12	Socket, Female	
23	4460935	1	Connector - 12 Position (Brown)	
23	4460465	8	Socket, Female	
25	4240032	10	Tie-Strap (Not Shown)	
26	4240033	15	Tie-Strap (Not Shown)	
37	4460950	1	Connector - 12 Position	
37	4460464	6	Pin, Male	
37	4460943	3	Pin, Male	
37	4460941	2	Pin, Male	
38	4460884	4	Connector - 4 Position (Gray)	
38	4460944	16	Socket, Female	

FIGURE 8-39. CLEARSKY INSTALLATION - 4G CANBUS CONNECTION (ALL SPECS)

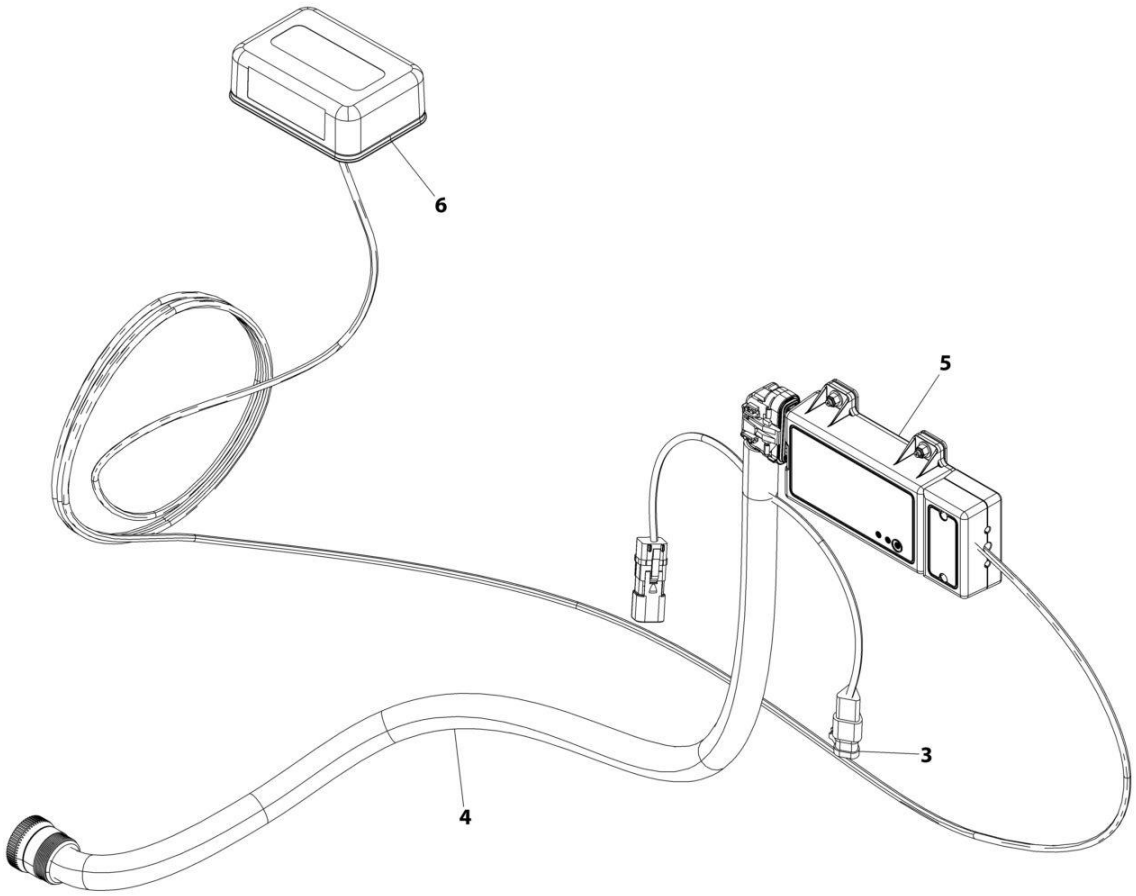

FIGURE 8-39. CLEARSKY INSTALLATION - 4G CANBUS CONNECTION (ALL SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227449	REF	CLEARSKY INSTALLATION CANBUS CONNECTION	B
1	4240032	AR	Tie-Strap (Not Shown)	
2	4460234	AR	Strap, Cable -Tie (Not Shown)	
3	1001129408	1	Connector	
4	1001226739	1	ClearSky Harness (See Separate Breakdown in this Section)	
5	1001262322	1	Telematics Control Module (Note: Re-calibration Required when Replaced)	
6	1001262327	1	Antenna	

FIGURE 8-40. CLEARSKY INSTALLATION - 3G CANBUS CONNECTION (ANSI EXPORT AND CE SPECS)

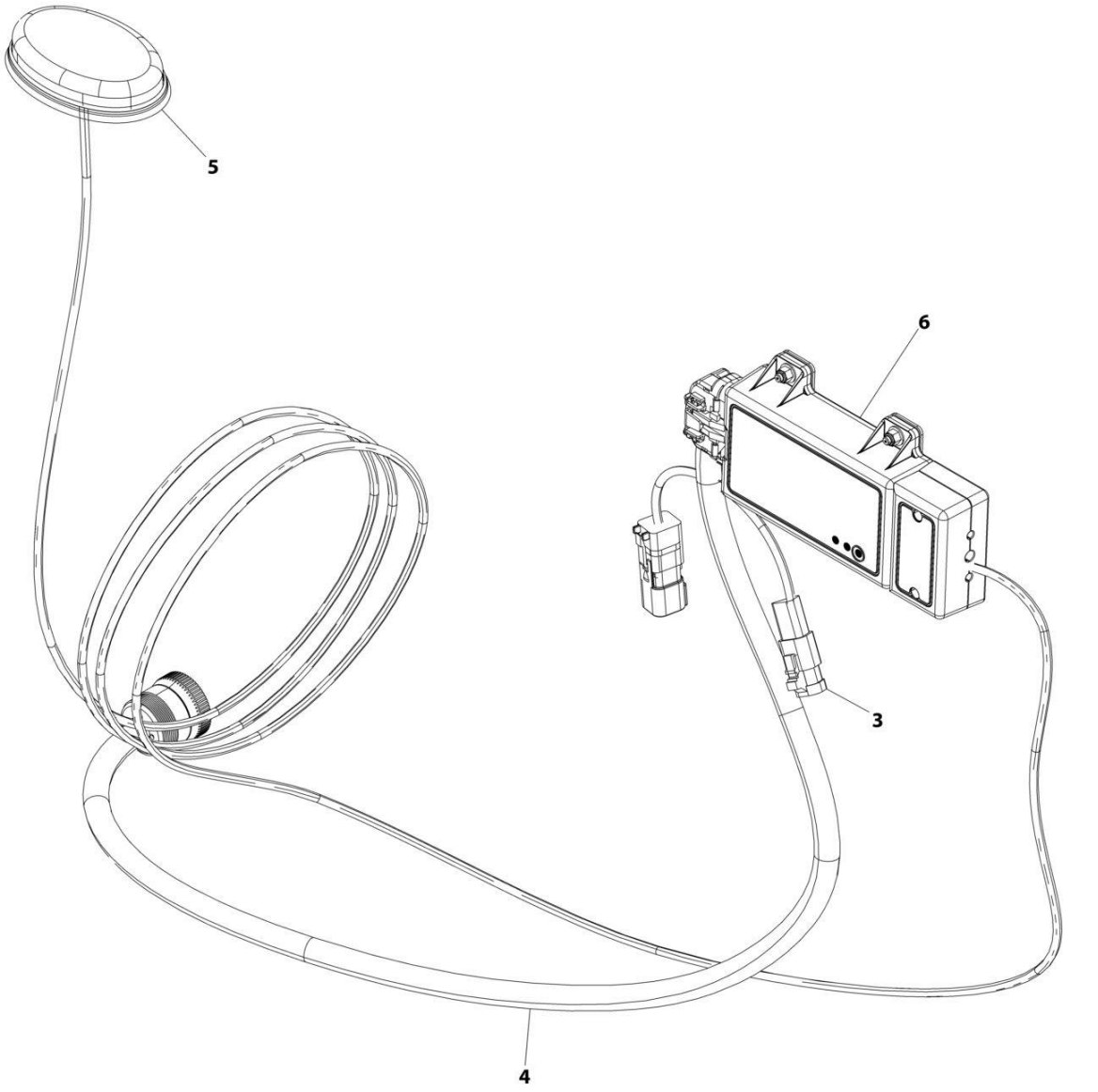

FIGURE 8-40. CLEARSKY INSTALLATION - 3G CANBUS CONNECTION (ANSI EXPORT AND CE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228953	REF	CLEARSKY INSTALLATION CANBUS CONNECTION	A
1	4240032	AR	Tie-Strap (Not Shown)	
2	4460234	AR	Strap, Cable Tie (Not Shown)	
3	1001129408	1	Connector	
4	1001226739	1	ClearSky Harness (See Separate Breakdown in this Section)	
5	1001226799	1	Antenna	
6	1001228954	1	Telematics Control Module (Note: Re-calibration Required when Replaced)	

FIGURE 8-41. CLEARSKY INSTALLATION - 3G CANBUS CONNECTION (AUSTRALIAN SPECS)

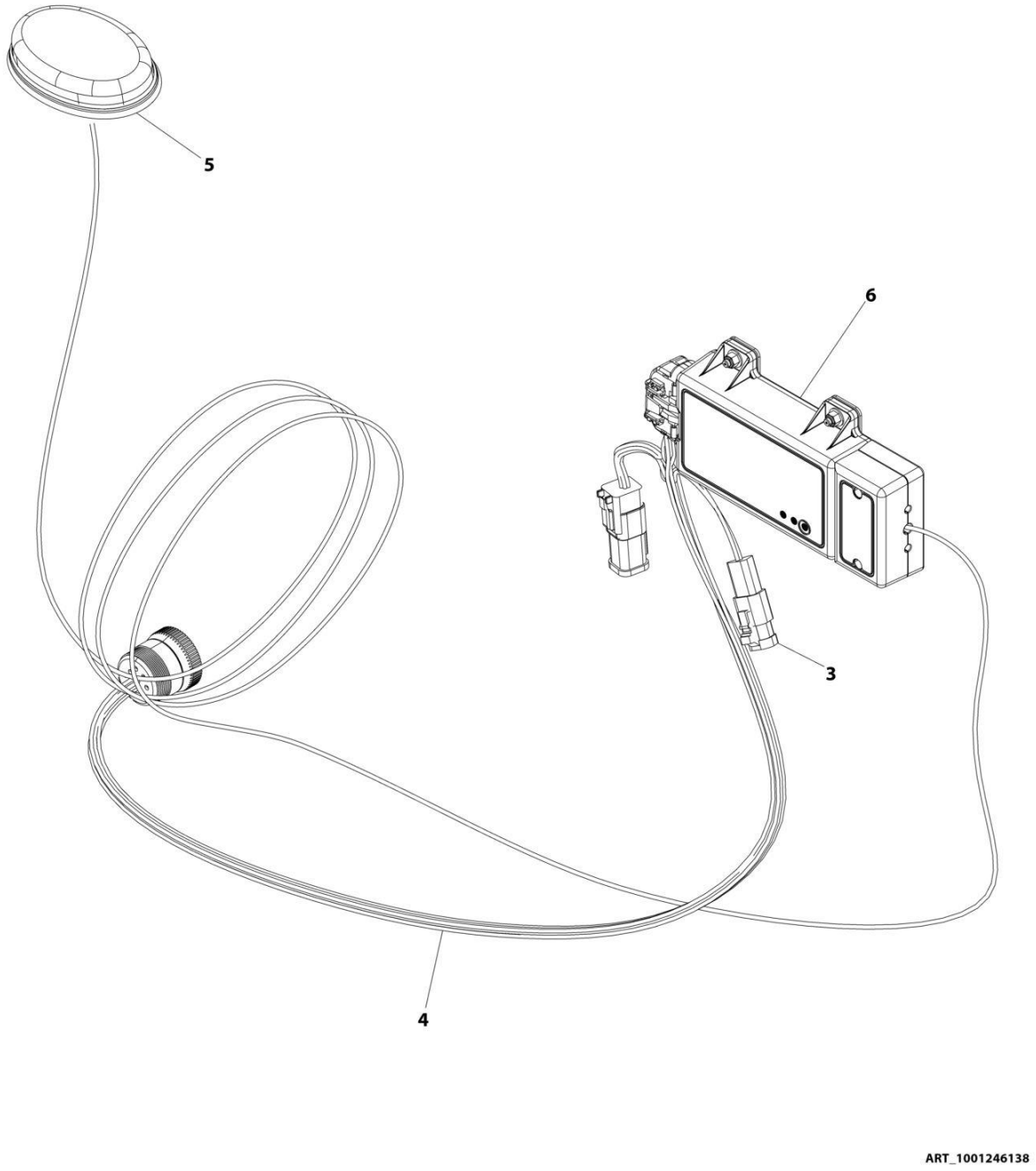

FIGURE 8-41. CLEARSKY INSTALLATION - 3G CANBUS CONNECTION (AUSTRALIAN SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001246138	REF	CLEARSKY INSTALLATION CANBUS CONNECTION	A
1	4240032	AR	Tie-Strap (Not Shown)	
2	4460234	AR	Strap, Cable -Tie (Not Shown)	
3	1001129408	1	Connector	
4	1001226739	1	ClearSky Harness (See Separate Breakdown in this Section)	
5	1001226799	1	Antenna	
6	1001246144	1	Telematics Control Module (Note: Re-calibration Required when Replaced)	

FIGURE 8-42. CLEARSKY INSTALLATION 3-WIRE CONNECTION (ALL SPECS)

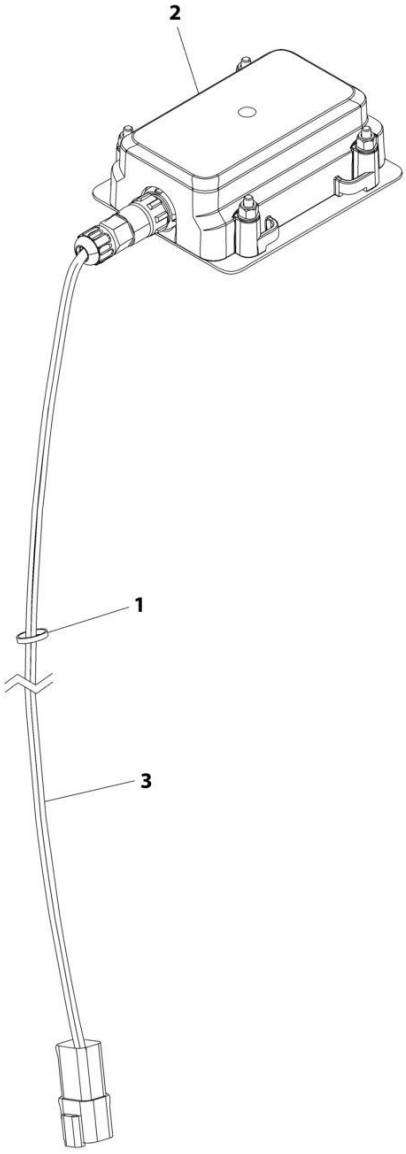

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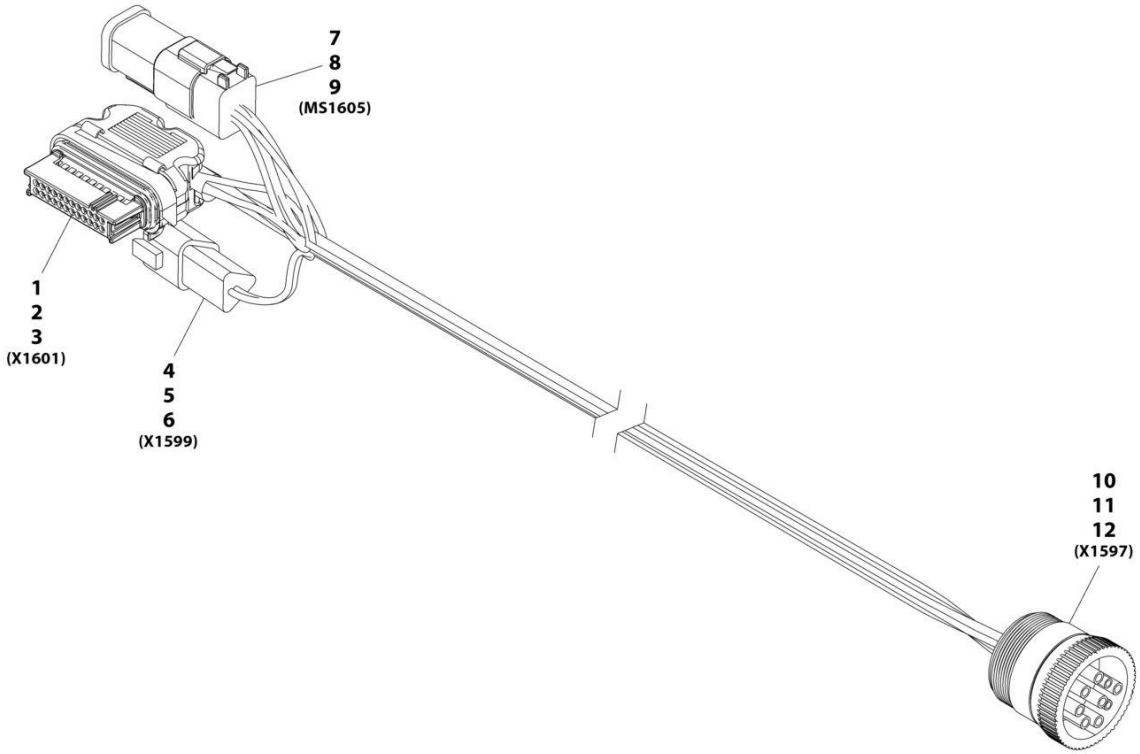
FIGURE 8-42. CLEARSKY INSTALLATION 3-WIRE CONNECTION (ALL SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001276610	Ref	CLEARSKY INSTALLATION 3-WIRE CONNECTION	A
1	4240032	AR	Tie-Strap	
2	1001272659	1	Telematics Control Module Assembly (Note: Re-calibration Required when Replaced)	
3	1001273012	1	ClearSky Harness (See Separate Breakdown in this Section)	

FIGURE 8-43. CLEARSKY HARNESS - 3G & 4G CANBUS CONNECTIONS



ART_1001226739-A

FIGURE 8-43. CLEARSKY HARNESS - 3G & 4G CANBUS CONNECTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001226739	Ref	Clearsky Harness	A
1	1001226636	1	Connector	
2	1001116731	16	Plug, Terminal	
3	1001226637	8	Terminal	
4	1001144147	1	Connector	
5	4460464	2	Terminal	
6	4460466	1	Plug, Terminal	
7	4460894	1	Connector	
8	4460465	6	Terminal	
9	1001226541	1	Connector- 6 Pin Bussbar	
10	1001112796	1	Connector	
11	4460465	8	Terminal	
12	4460466	1	Plug, Terminal	

FIGURE 8-44. CLEARSKY HARNESS - 3 WIRE GT1030

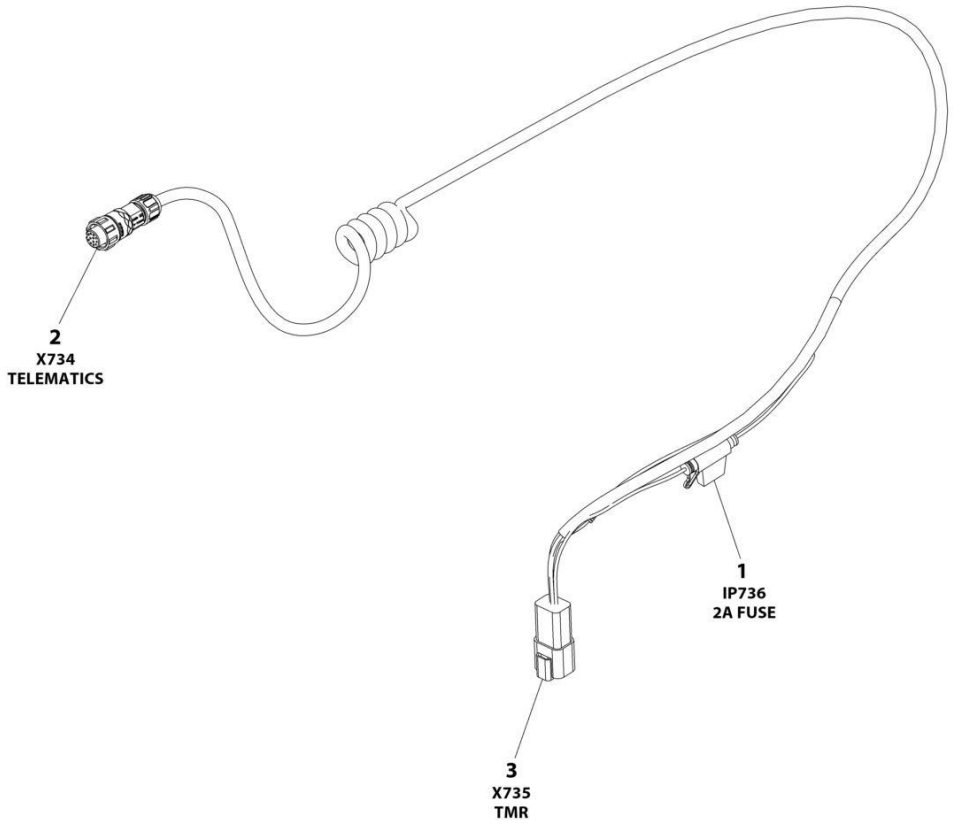


FIGURE 8-44. CLEARSKY HARNESS - 3 WIRE GT1030

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

FIGURE 8-45. CLEARSKY READY HARNESS (DEUTZ TD2011, DEUTZ TCD2.9L4 & DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES)

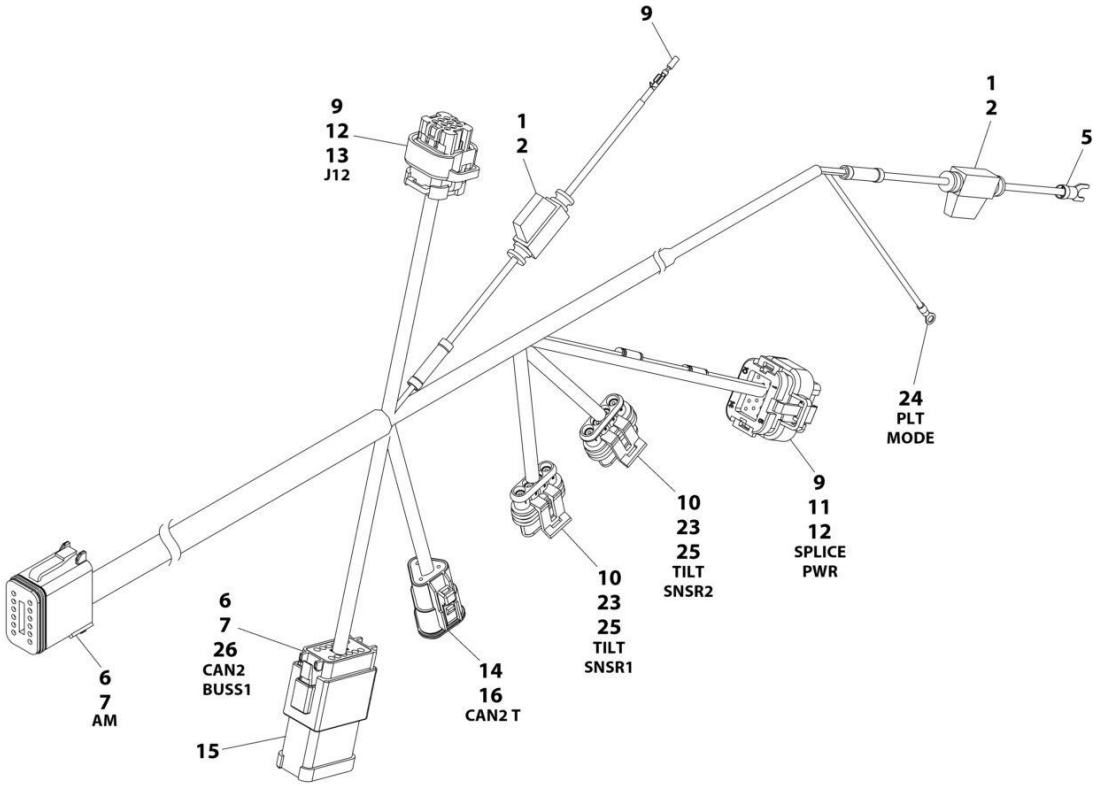


FIGURE 8-45. CLEARSKY READY HARNESS (DEUTZ TD2011, DEUTZ TCD2.9L4 & DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001288111	Ref	CLEARSKY READY HARNESS	B
1	1001255901	2	Fuseholder with Cover	
2	2400064	2	Fuse 5Amp	
5	4460183	1	Terminal, Fork	
6	4460933	2	Connector	
7	4460465	21	Socket	
9	4460871	15	Socket	
10	1001103012	2	Connector	
11	1001246859	1	Connector	
12	4460905	8	Plug	
13	1001113961	1	Connector	
14	1001116812	1	Connector	
15	1001119020	1	Terminal, Connector	
16	4460944	3	Pin, Male	
23	1001104498	8	Seal	
24	4460313	1	Terminal, Ring	
25	1001107854	8	Socket	
26	4460466	3	Plug	

FIGURE 8-46. CLEARSKY READY HARNESS (DEUTZ TCD2.9L4 (STAGE V) ENGINES)

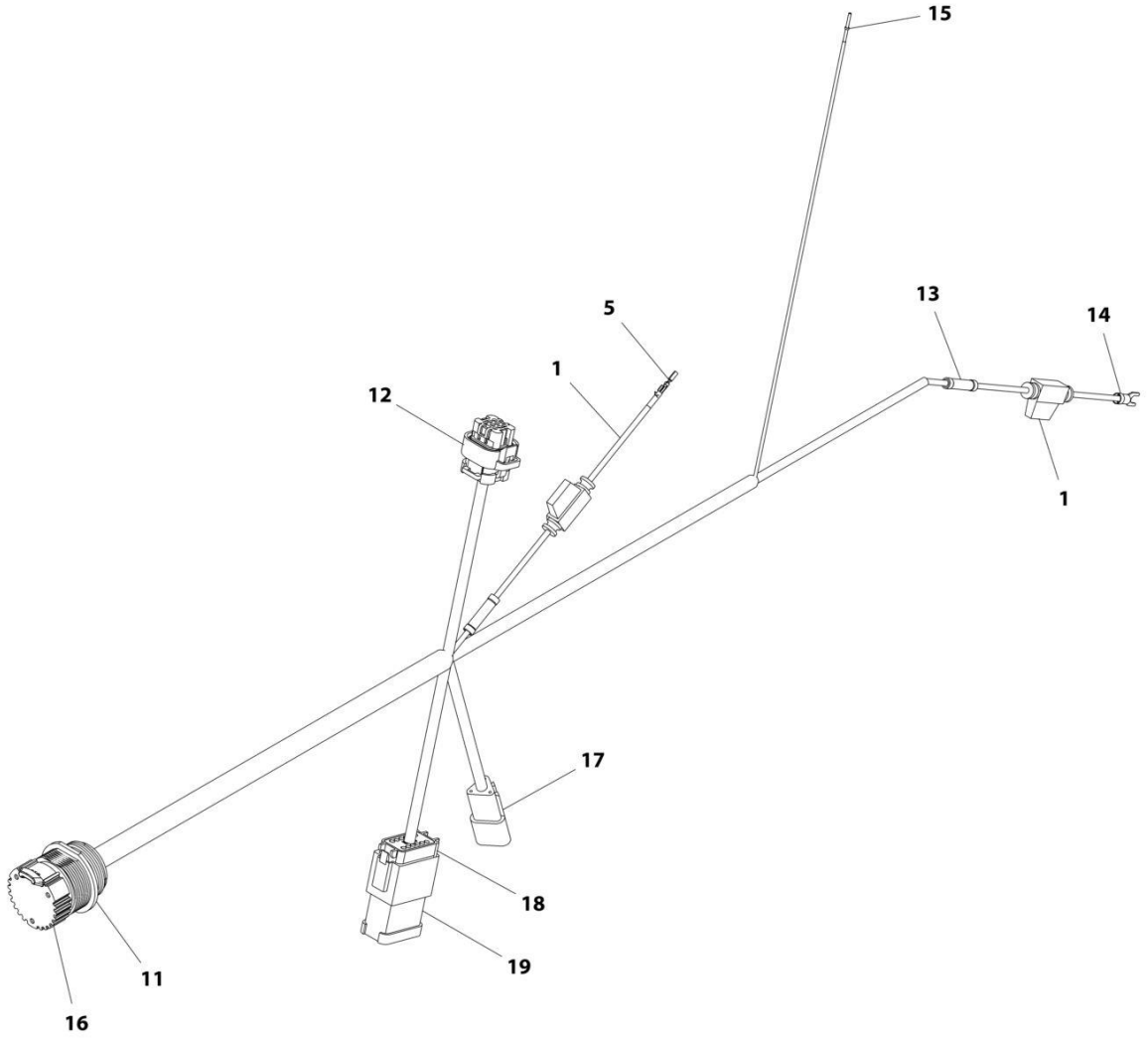


FIGURE 8-46. CLEARSKY READY HARNESS (DEUTZ TCD2.9L4 (STAGE V) ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114438	Ref	CLEARSKY READY HARNESS	A
1	2400060	2	Fuseholder with Cover	
1	2400064	2	Fuse 5Amp	
5	4460871	1	Socket, Female	
11	1001112612	1	Connector - 9 Position	
11	4460464	6	Pin, Male	
11	4460466	3	Plug, Sealing	
12	1001113961	1	Connector - 8 Position	
12	4460871	5	Socket, Female	
12	4460905	5	Plug, Sealing	
13	4460035	2	Terminal, Connector	
14	4460183	1	Terminal, Eyelet	
15	4460465	1	Socket, Female	
16	1001106736	1	Cap, Dust	
17	4460536	1	Connector - 3 Position	
17	4460464	3	Pin, Male	
18	4460933	1	Connector - 12 Position	
18	4460465	9	Socket, Female	
18	4460466	3	Plug, Sealing	
19	4460898	1	Connector Bussbar - 9 Position	

FIGURE 8-47. DIAGNOSTIC HARNESS

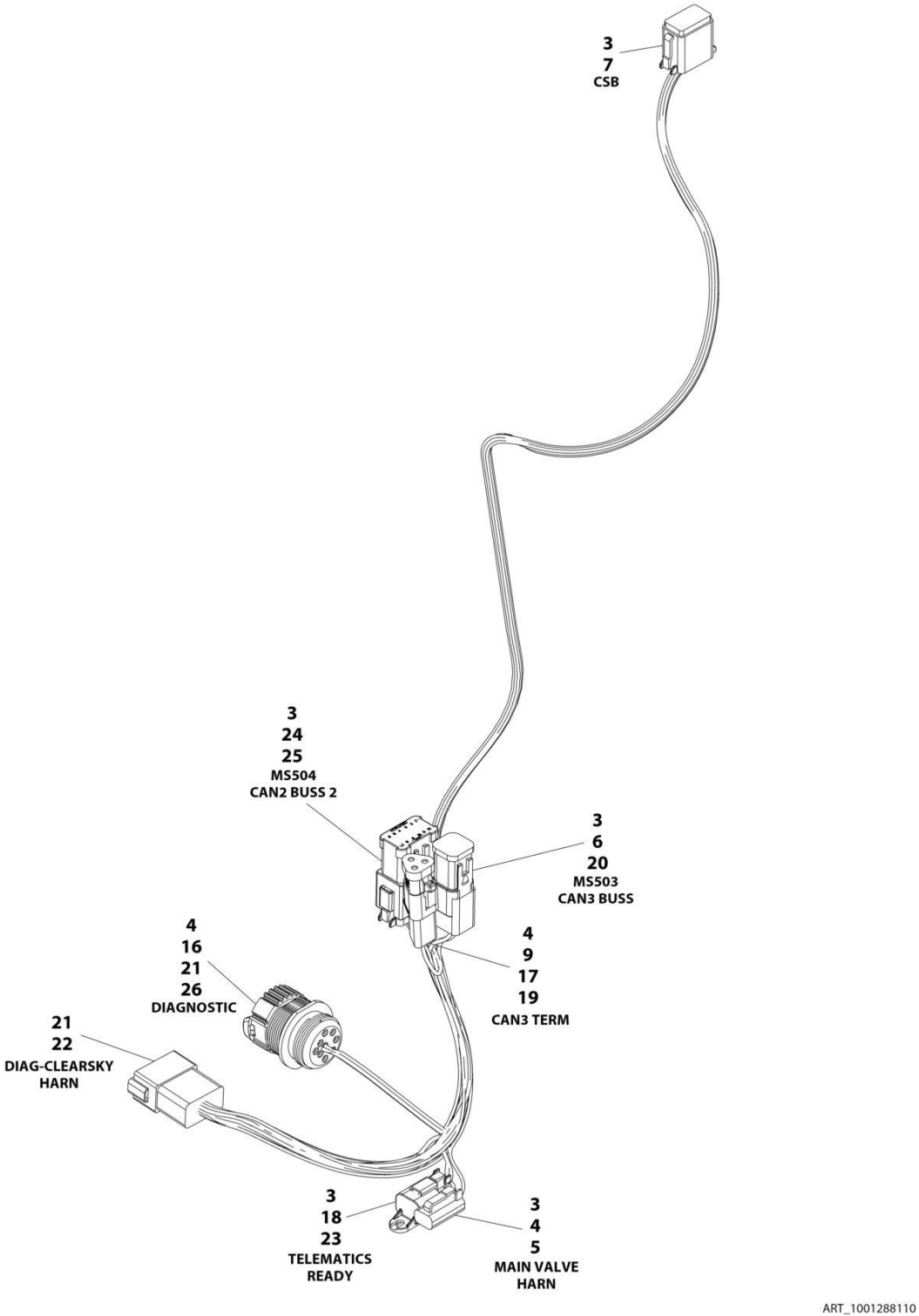


FIGURE 8-47. DIAGNOSTIC HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001288110	Ref	DIAGNOSTIC HARNESS	B
3	4460465	31	Socket	
4	4460466	5	Plug	
5	4460891	1	Connector	
6	4460894	1	Connector	
7	4460930	1	Connector	
9	4460943	2	Pin	
16	1001112612	1	Connector	
17	1001116815	1	Connector	
18	1001192401	1	Connector	
19	1001144147	1	Pin	
20	1001226541	1	Connector	
21	4460464	18	Pin	
22	4460970	1	Connector	
23	4460884	1	Connector	
24	4460933	1	Connector	
25	1001119020	1	Connector	
26	1001106736	1	Cap, Dust	

FIGURE 8-48. DUAL CAPACITY JIB POSITION SWITCH HARNESS

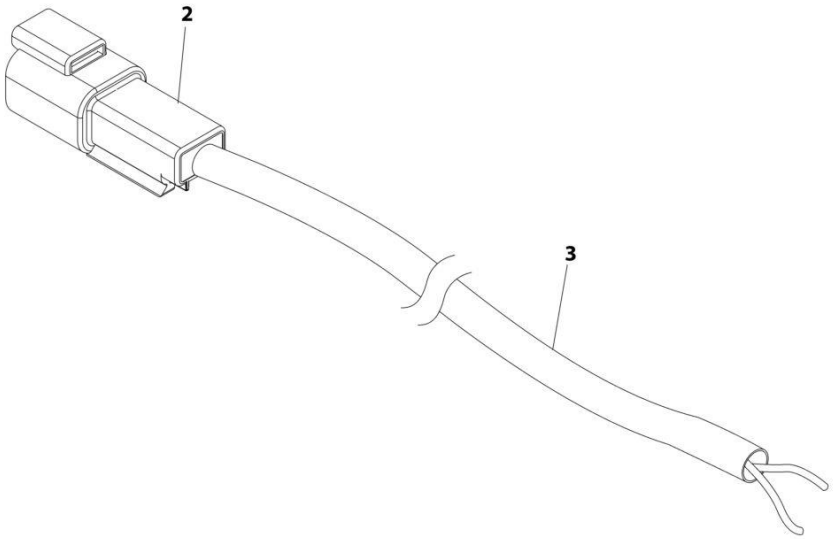


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FIGURE 8-48. DUAL CAPACITY JIB POSITION SWITCH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922785	Ref	DUAL CAPACITY JIB POSITION SWITCH HARNESS	C
2	4460897	1	Connector - 2 Position	
2	4460464	2	Pin, Male	
3	1060902	15 ft/ 4.5m	Cable, Electrical 18/2	

FIGURE 8-49. ENGINE HARNESS - DEUTZ TD2011 ENGINES

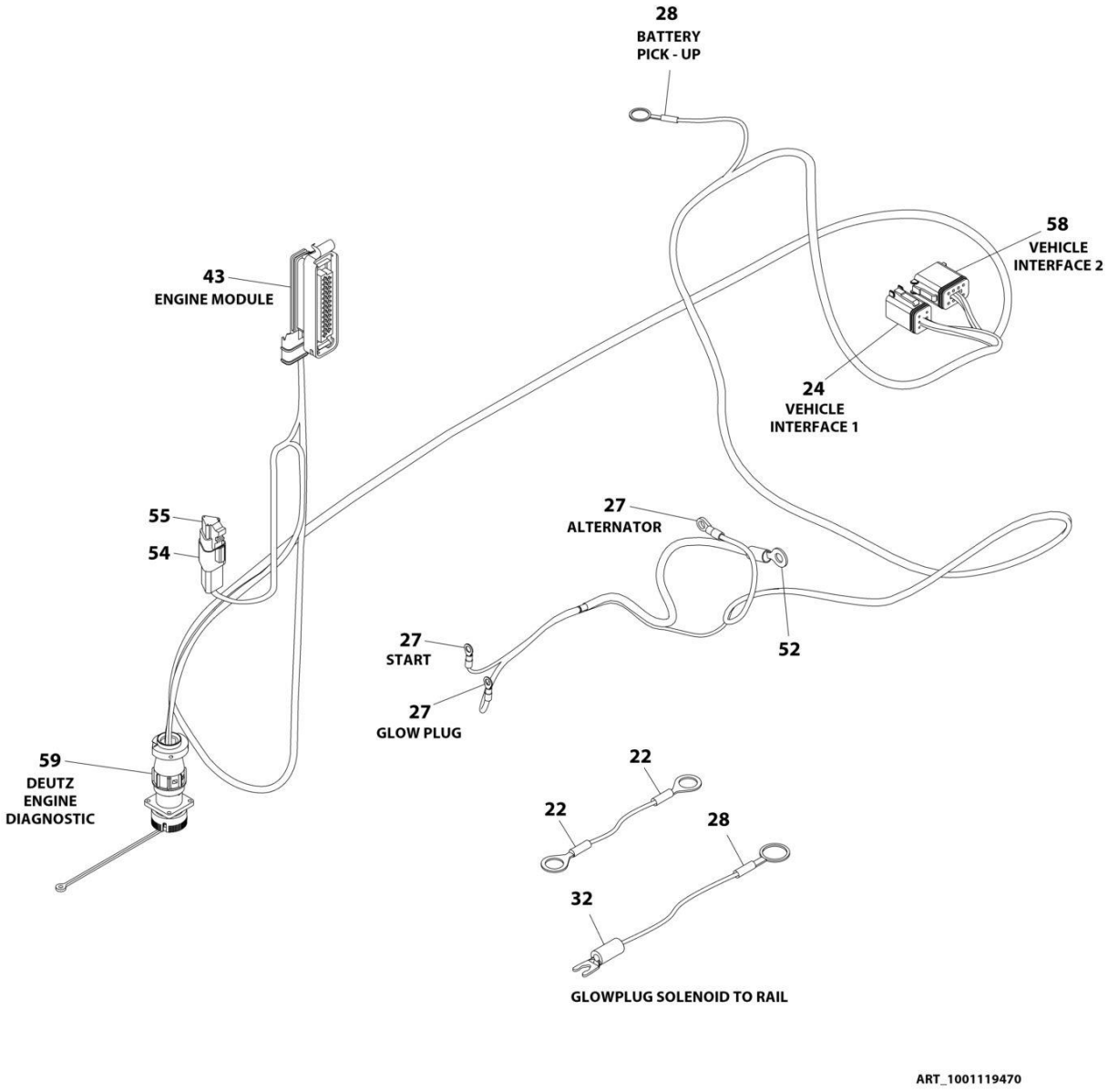


FIGURE 8-49. ENGINE HARNESS - DEUTZ TD2011 ENGINES

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	

FIGURE 8-50. ENGINE HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES

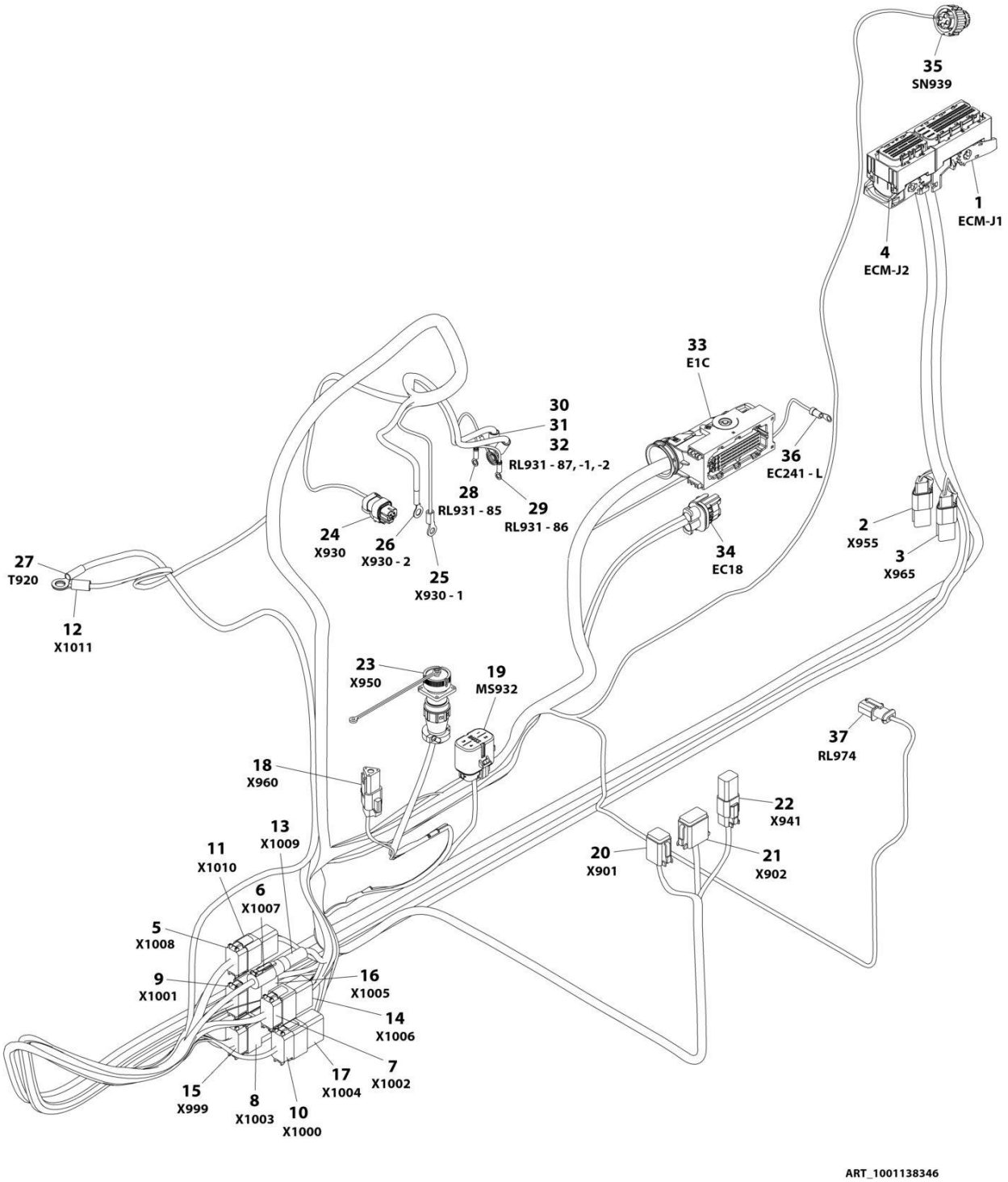


FIGURE 8-50. ENGINE HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001138346	Ref	ENGINE HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES	H
1	1001133956	1	Connector (Includes Cover, Locks and Retention Plate)	
1	1001182361	6	Terminal	
1	1001230934	15	Terminal	
1	1001126351	1	Terminal	
1	1001256507	4	Terminal	
1	1001230936	3	Plug, Terminal	
1	1001230935	62	Plug, Terminal	
1	1001126352	6	Terminal	
1	1001126384	19	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	1001230934	11	Terminal	
4	1001252527	4	Terminal	
4	1001256507	2	Terminal	
4	1001230935	19	Plug, Terminal	
4	1001230936	11	Plug, Terminal	
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	

SECTION 8 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
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	
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	
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	1001220379	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	23	Terminal	
33	1001256506	2	Seal	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
33	1001126364	21	Seal	
33	1001126392	10	Terminal	
33	1001223459	10	Seal	
33	1001126365	2	Terminal	
33	4461054	2	Seal	
33	1001126391	22	Plug, Terminal	
33	4461008	4	Plug, Cavity	
34	1001142938	1	Connector - 2 Position	
34	1001142940	2	Terminal, Female	
34	1001142941	2	Seal	
35	1001133714	1	Connector - 4 Position	
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	

FIGURE 8-51. ENGINE HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

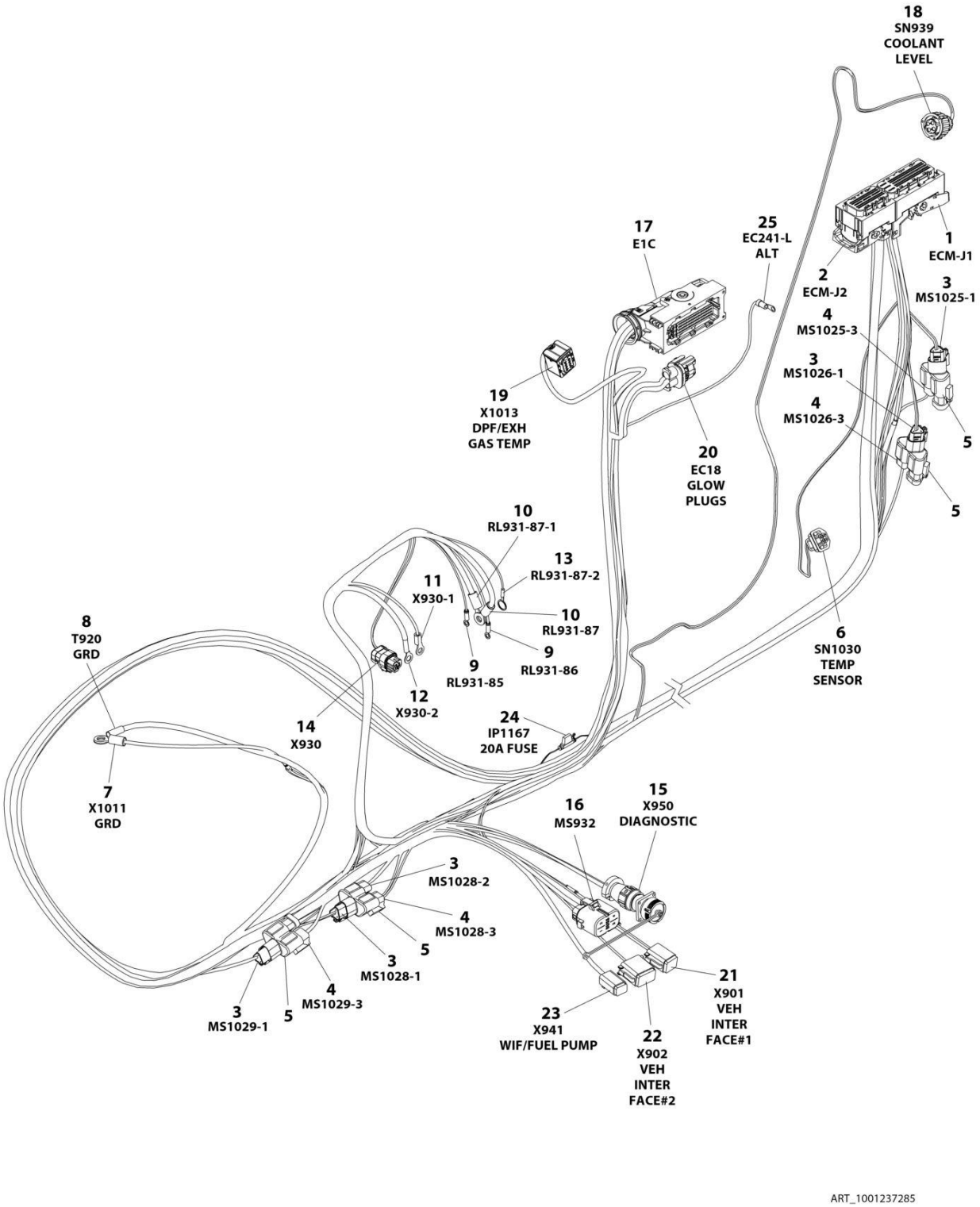


FIGURE 8-51. ENGINE HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237285	Ref	ENGINE HARNESS	G
1	1001133956	1	Connector (Includes Cover, Locks and Retention Plate)	
1	1001182361	6	Terminal	
1	1001230934	25	Terminal	
1	1001126351	3	Terminal	
1	1001252527	4	Terminal	
1	1001230935	55	Plug, Terminal	
1	1001230936	1	Plug, Terminal	
2	1001133957	1	Connector (Includes Cover, Locks and Retention Plate)	
2	1001126351	13	Terminal	
2	1001230934	26	Terminal	
2	1001230935	9	Terminal	
2	1001230936	11	Plug, Terminal	
3	1001116812	5	Plug, Male - 3 Position	
3	4460944	10	Socket, Female	
3	4460466	5	Plug, Terminal	
4	4460539	4	Plug, Male - 3 Position	
4	4460944	8	Socket, Female	
4	4460466	4	Plug, Terminal	
5	4460945	4	Connector - 3 Way	
6	1001126487	1	Connector - 3 Position	
6	1001167635	2	Terminal	
6	1001126485	2	Seal	
7	8220164	1	Terminal, Eyelet	
8	4460019	1	Terminal, Eyelet	
9	4460247	2	Terminal, Eyelet	
10	1001117107	2	Terminal, Eyelet	
11	4460043	1	Terminal, Eyelet	
12	1001117106	1	Terminal, Eyelet	
13	4460703	1	Terminal, Eyelet	
14	1001116952	1	Connector - 2 Position	
14	4460465	2	Socket, Female	
15	2902443	1	Kit, Receptacle	
15	4461071	8	Terminal, Female (Gold)	
15	4461072	1	Connector, Flange Mount	
15	4461073	1	Connector, Dust Cap	
15	4461074	1	Connector, Shell	
16	80484084	1	Connector - 8 Position	
16	4460748	4	Plug, Terminal	
16	4460746	3	Terminal	
16	1001234800	1	Terminal	
16	4460458	4	Seal	
17	1001126362	1	Connector - 62 Position	
17	1001126363	36	Terminal	
17	1001126364	36	Seal	
17	1001126391	7	Plug, Terminal	
17	4461008	4	Plug, Cavity	
17	1001126392	12	Terminal	
17	1001223459	12	Seal	

SECTION 8 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17	1001167632	2	Terminal	
17	4461054	2	Seal	
18	1001133714	1	Connector - 4 Position	
18	1001133715	3	Terminal, Female	
18	1001135650	1	Seal	
18	1001135651	1	Plug, Cavity	
19	1001239202	1	Connector - 8 Position	
19	1001126363	7	Terminal	
19	1001126364	7	Seal	
19	1001135651	1	Plug, Terminal	
20	1001142938	1	Connector - 2 Position	
20	1001142940	2	Terminal, Female	
20	1001142941	2	Seal	
21	4460894	1	Connector - 6 Position	
21	4460465	2	Socket, Female	
21	4460944	2	Socket, Female	
21	4460466	2	Seal, Plug	
22	4460930	1	Connector - 8 Position	
22	4460465	1	Socket, Female	
22	4460466	7	Seal, Plug	
23	4460884	1	Connector - 4 Position	
23	4460465	2	Socket, Female	
23	4460942	2	Socket, Female	
24	1001170764	1	Fuseholder with Cover and 20AMP Fuse	
24	1001197719	1	Resistor 620ohm/5 watt	
25	4460042	1	Terminal, Eyelet	

FIGURE 8-52. ENGINE HARNESS - DEUTZ TCD2.9L4 (STAGE V) ENGINES

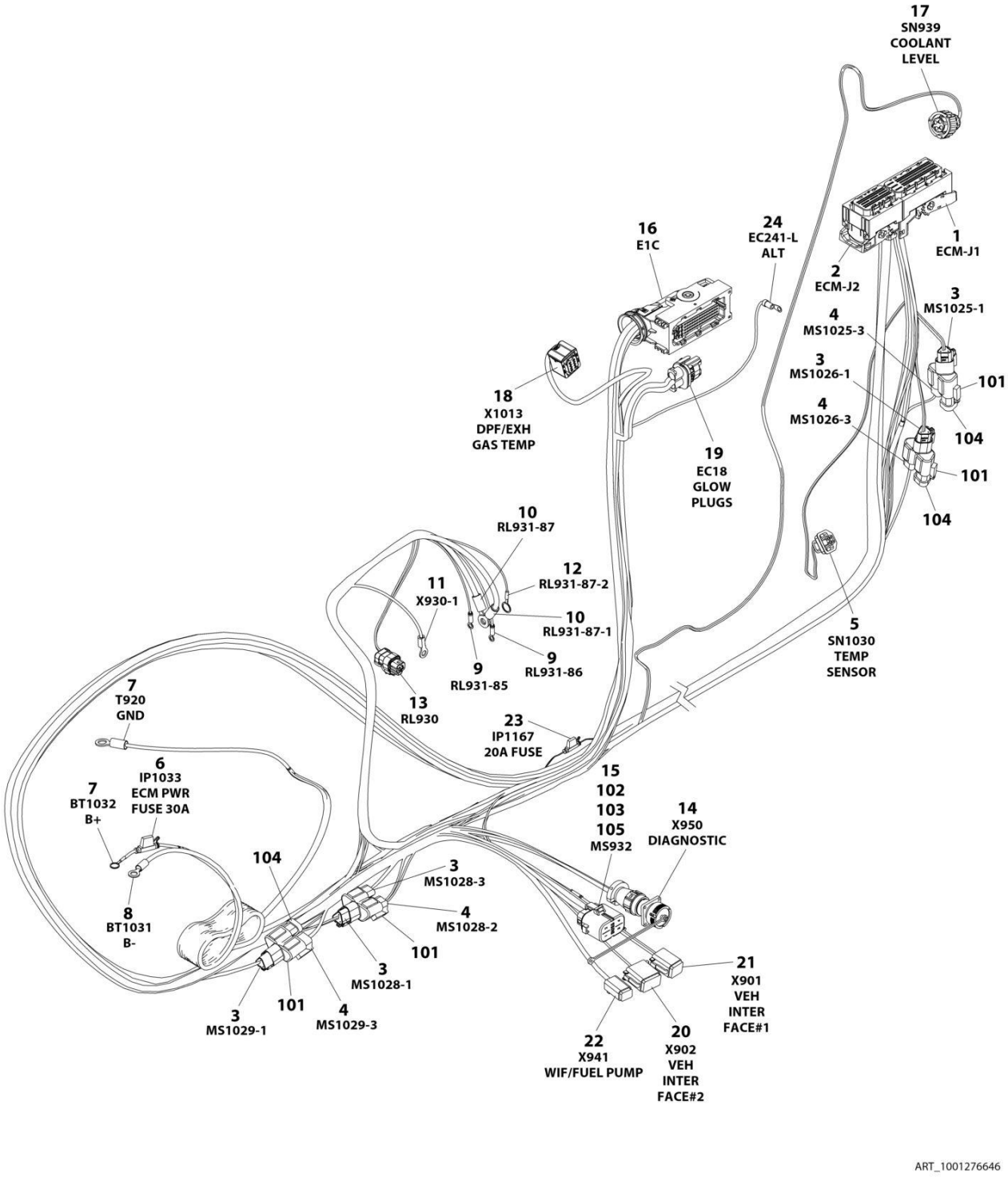


FIGURE 8-52. ENGINE HARNESS - DEUTZ TCD2.9L4 (STAGE V) ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001276646	Ref	DEUTZ TCD2.9L4 STAGE V ENGINE HARNESS	B
1	1001133956	1	Connector (Includes Cover, Locks and Retention Plate)	
1	1001182361	6	Socket 18 - 15AWG Wire	
1	1001182365	6	Seal	
1	1001230934	23	Socket 0.75 MM2 Wire	
1	1001126351	3	Socket 2.5 - 1.5 MM2 Wire	
1	1001252527	4	Socket 0.85 MM2 Wire	
1	1001230935	57	Plug - Black	
1	1001230936	1	Plug - Natural	
2	1001133957	1	Connector (Includes Cover, Locks and Retention Plate)	
2	1001126351	13	Socket 2.5 - 1.5 MM2 Wire	
2	1001230934	26	Socket 0.75 MM2 Wire	
2	1001230935	10	Plug - Black	
2	1001230936	11	Plug - Natural	
3	1001116812	5	Connector	
3	4460944	10	Socket	
3	4460466	5	Plug	
4	4460539	4	Connector	
4	4460944	8	Socket	
4	4460466	4	Plug	
5	1001126487	1	Connector	
5	1001167635	2	Socket	
5	1001126485	2	Seal	
6	1001172064	1	Fuseholder	
6	1001172065	1	Fuse, 30Amp	
7	4460019	2	Terminal, Eyelet	
8	8220115	1	Terminal, Eyelet	
9	4460247	2	Terminal, Eyelet	
10	1001117107	2	Terminal, Eyelet	
11	4460043	1	Terminal, Eyelet	
12	4460703	1	Terminal, Eyelet	
13	1001116952	1	Connector	
13	4460465	2	Socket	
14	2902443	1	Kit, Receptacle	
14	4461071	8	Socket	
14	4461072	1	Connector	
14	4461073	1	Dust Cap	
14	4461074	1	Shell	
15	80484084	1	Connector	
15	4460748	4	Plug	
15	4460746	3	Socket 1.0 - 0.5 MM2 Wire	
15	1001234800	1	Socket 2.0 - 1.0 MM2 Wire	
15	4460458	4	Seal	
16	1001126362	1	Connector	
16	1001126363	37	Socket 20 - 17AWG	
16	1001126364	37	Seal (Use With 1001126363)	
16	1001126391	7	Plug - White	
16	4461008	4	Plug - Clear	
16	1001126392	12	Socket 16AWG	
16	1001223459	12	Seal (Use With 1001223459)	

SECTION 8 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
16	1001167632	2	Socket 1.0 - 0.5 MM2 Wire	
16	4461054	2	Seal (Use With 10011676323)	
16	1001151856	1	Backshell	
17	1001133714	1	Connector	
17	1001133715	3	Socket	
17	1001135650	3	Seal	
17	1001135651	1	Plug	
18	1001239202	1	Connector	
18	1001126363	7	Socket	
18	1001126364	7	Seal	
18	1001135651	1	Plug	
19	1001142938	1	Connector	
19	1001142940	2	Socket	
19	1001142941	2	Seal	
20	4460930	1	Connector	
20	4460465	1	Socket	
20	4460466	7	Plug	
21	4460894	1	Connector	
21	4460465	2	Socket - Nickel	
21	4460944	2	Socket - Gold	
21	4460466	2	Plug	
22	4460884	1	Connector	
22	4460465	2	Socket 20 - 16AWG	
22	4460942	2	Socket 16 - 14AWG	
23	1001170764	1	Fuseholder with Cover and 20AMP Fuse	
23	1001197719	1	Resistor 620ohm/5 watt	
24	4460042	1	Terminal, Eyelet	
101	4460945	4	Connector	
102	8229242	1	Fuse, 5Amp	
103	80983191	1	Fuse, 10Amp	
104	1001116815	3	Connector	
105	1001147264	1	Cap	

FIGURE 8-53. FUEL FILTER HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

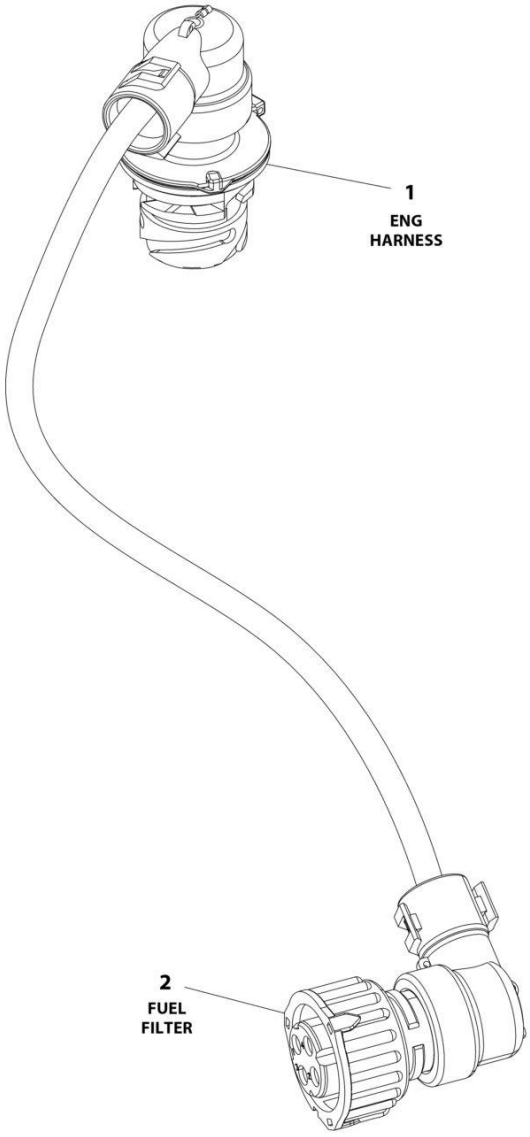


FIGURE 8-53. FUEL FILTER HARNESS - DEUTZ TCD2.9L4 ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

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	

FIGURE 8-54. FUEL HARNESS - DEUTZ TCD2.9L4 ENGINES, DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

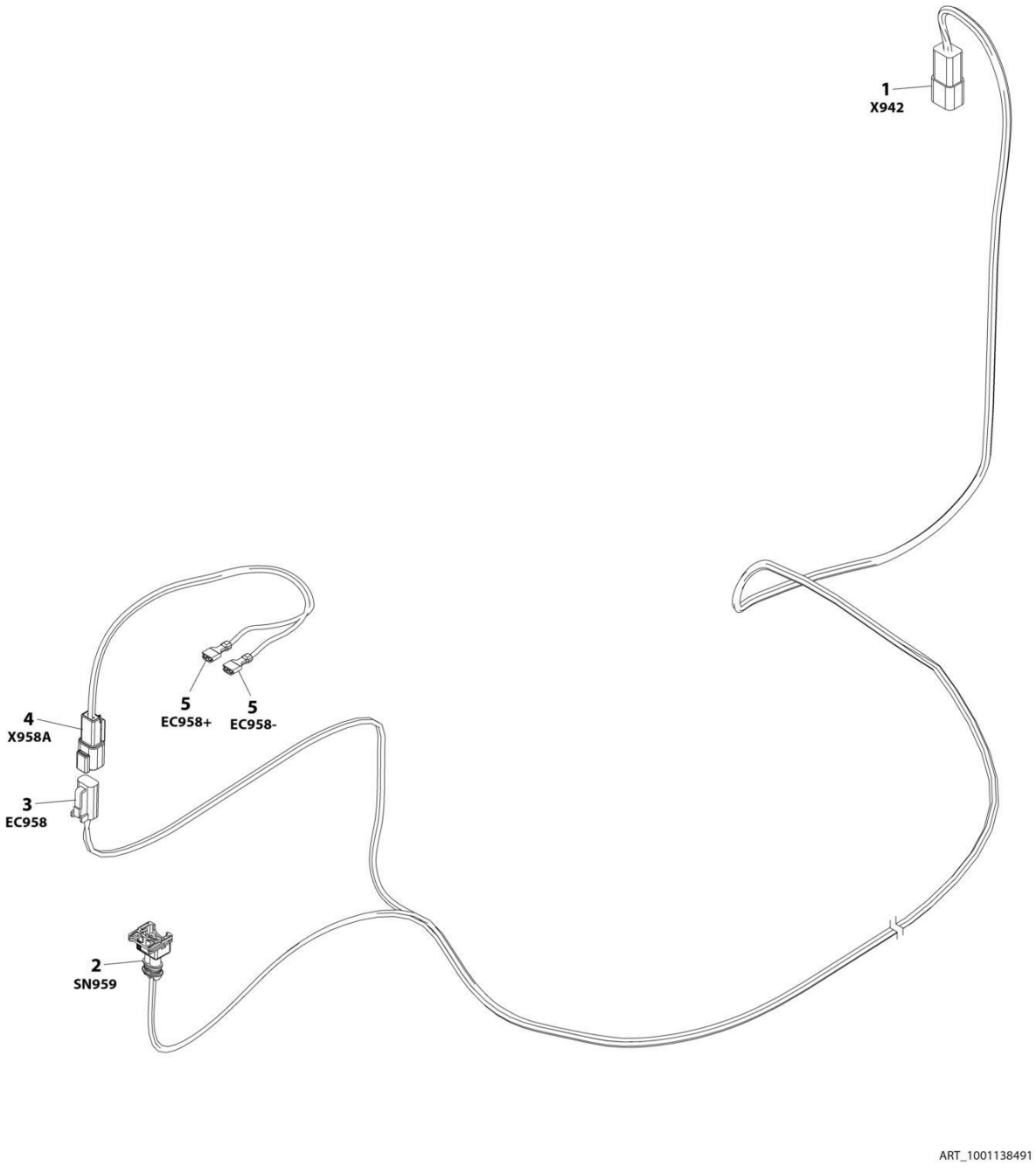


FIGURE 8-54. FUEL HARNESS - DEUTZ TCD2.9L4 ENGINES, DEUTZ TCD2.9L4 (STAGE V PRE-BUY) ENGINES AND DEUTZ TCD2.9L4 (STAGE V) ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001138491	Ref	FUEL PUMP HARNESS	D
1	4460932	1	Receptacle, Female - 4 Position	
1	4460941	2	Pin, Male	
1	4460464	2	Pin, Male	
2	1001116983	1	Plug, Male - 2 Position	
2	1001116710	2	Socket, Female	
2	4461054	2	Seal	
3	4460891	1	Plug, Male - 2 Position	
3	4460942	2	Socket, Female	
4	4460897	1	Connector - 2 Position	
4	4460941	2	Pin, Male	
5	8220051	2	Terminal, Ring	

FIGURE 8-55. GENERATOR HARNESS - 4000W GENERATOR

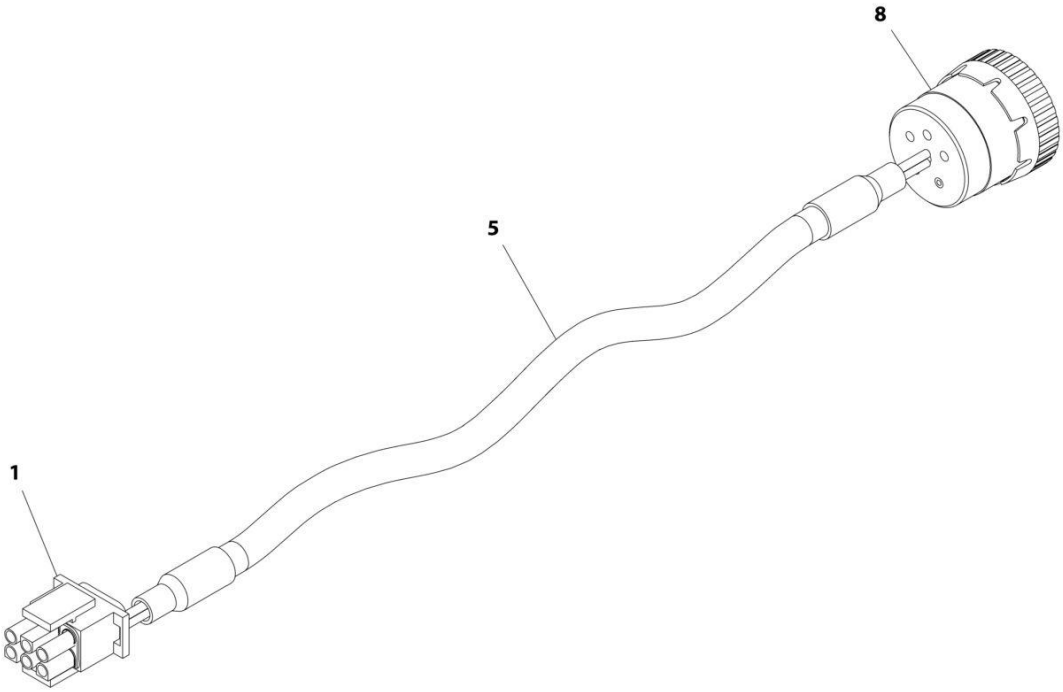


FIGURE 8-55. GENERATOR HARNESS - 4000W GENERATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152533	Ref	GENERATOR HARNESS - 4000W GENERATOR	A
1	4460225	1	Connector - 6 Position	
1	4460268	2	Socket, Female	
1	4460807	1	Seal, Plug	
1	4460808	1	Seal, Plug	
5	1060341	8 ft /2.4m	Cable, 16/2	
8	77363233	1	Connector - 6 Position	
8	4460465	2	Socket, Female	

FIGURE 8-56. GENERATOR CABLE HARNESS - 7500W GENERATOR

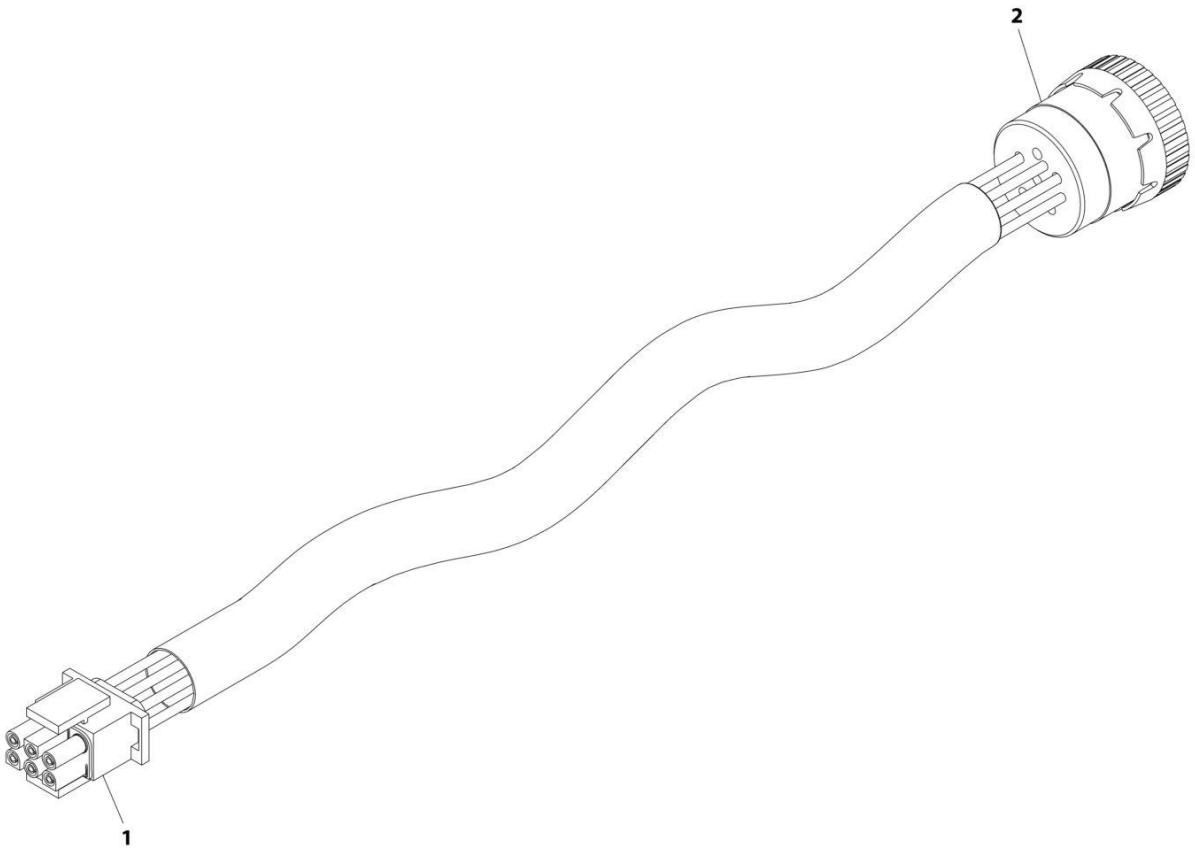


FIGURE 8-56. GENERATOR CABLE HARNESS - 7500W GENERATOR

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	

FIGURE 8-57. GROUND CONTROL BOX HARNESS

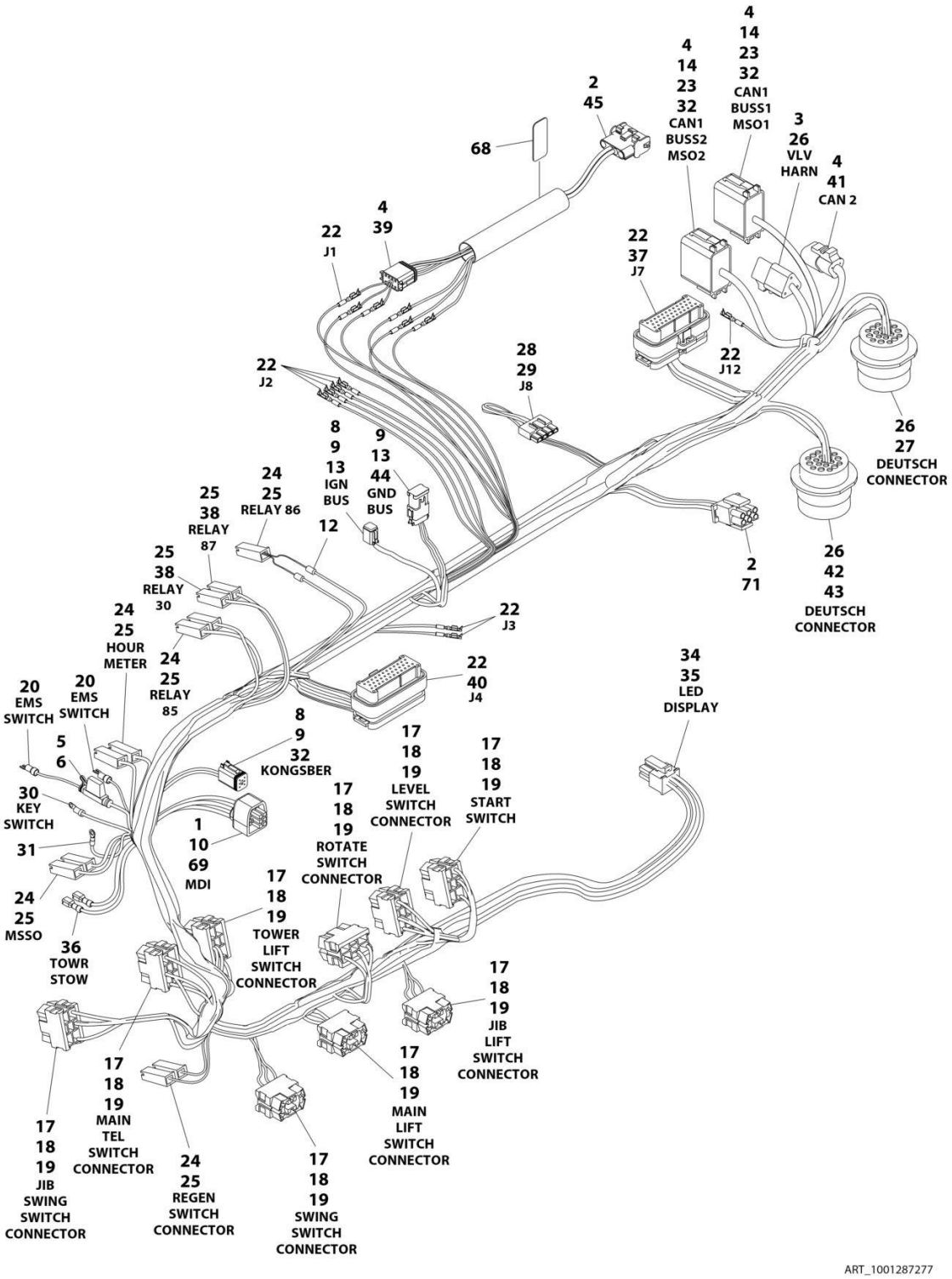


FIGURE 8-57. GROUND CONTROL BOX HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001287277	Ref	GROUND CONTROL BOX HARNESS	A
1	4460877	4	Socket	
2	4460227	9	Pin	
3	4460536	1	Connector	
4	4460944	29	Socket	
5	2400066	1	Fuseholder with Cover	
6	2400065	1	Fuse, 30Amp	
8	4460894	2	Connector	
9	4460465	9	Socket 20 - 16AWG	
10	4460868	1	Connector	
12	3990001	2	Diode - 3 Amp	
13	4460942	3	Socket 16 - 14AWG	
14	4460933	1	Connector	
17	1001159186	17	Socket 0.5 - 0.8mm2	
18	4460419	8	Socket 18 - 14AWG	
19	4460418	9	Connector	
20	4460806	6	Terminal, Fork	
22	4460871	64	Socket	
23	1001119020	2	Connector	
24	4460259	8	Socket	
25	4460260	10	Connector	
26	4460464	24	Pin 20 - 16AWG	
27	4460866	1	Connector	
28	4460878	1	Connector	
29	4460887	3	Socket	
30	4460142	3	Terminal, Ring	
31	4460313	3	Terminal, Ring	
32	4460466	6	Plug	
34	1001237667	1	Connector	
35	1001237668	5	Socket	
36	1001201885	2	Socket	
37	4460873	1	Connector	
38	4460297	2	Socket	
39	4460930	1	Connector	
40	4460876	1	Connector	
41	1001116812	1	Connector	
42	4460613	1	Connector	
43	4460941	2	Pin 16 - 14AWG	
44	4460836	1	Connector	
45	4460761	1	Connector	
68	1001096076	1	Decal - Troubleshooting	
69	1001094105	1	Boot	
71	4460225	1	Connector	

FIGURE 8-58. GROUND CONTROLS TO ENGINE HARNESS

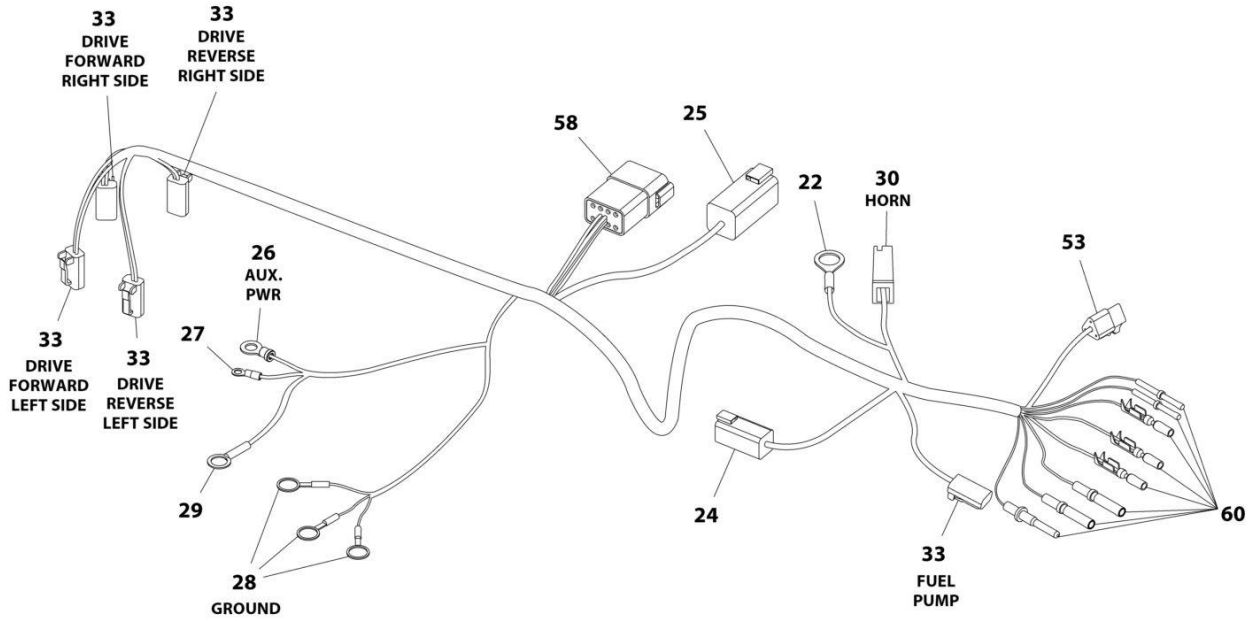


FIGURE 8-58. GROUND CONTROLS TO ENGINE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119529	Ref	GROUND CONTROLS TO ENGINE HARNESS	D
22	4460702	1	Terminal, Eyelet	
24	4460899	1	Connector - 6 Position	
24	4460464	5	Pin, Male	
24	4460466	1	Plug, Terminal	
25	4460899	1	Connector - 6 Position	
25	4460464	4	Pin, Male	
25	4460943	2	Pin, Male (Gold)	
26	4460312	1	Terminal, Eyelet	
27	4460313	1	Terminal, Eyelet	
28	4460019	3	Terminal, Eyelet	
29	4460256	1	Terminal, Eyelet	
30	4460260	1	Terminal, Housing	
30	4460259	1	Terminal	
33	4460891	5	Connector - 2 Position	
33	4460465	10	Socket, Female	
53	4460539	1	Connector - 3 Position	
53	4460944	3	Socket, Female	
58	4460931	1	Connector - 8 Position	
58	4460464	8	Pin, Male	
60	4460465	2	Socket, Female	
60	4460887	1	Terminal (12 Gauge)	
60	4460871	12	Socket, Female	
60	4460508	1	Pin, Male	

FIGURE 8-59. JIB STOW SWITCH HARNESS

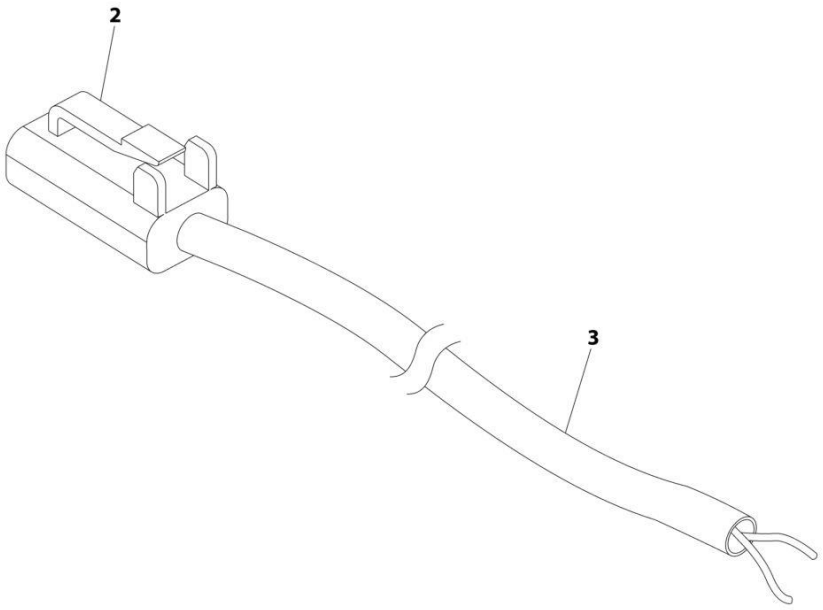


FIGURE 8-59. JIB STOW SWITCH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922784	Ref	JIB STOW SWITCH HARNESS	C
2	4460891	1	Connector - 2 Position	
2	4460465	2	Socket, Female	
3	1060902	15 ft/ 4.6m	Cable, Electrical 18/2	

FIGURE 8-60. LOAD SENSING PIN HARNESS

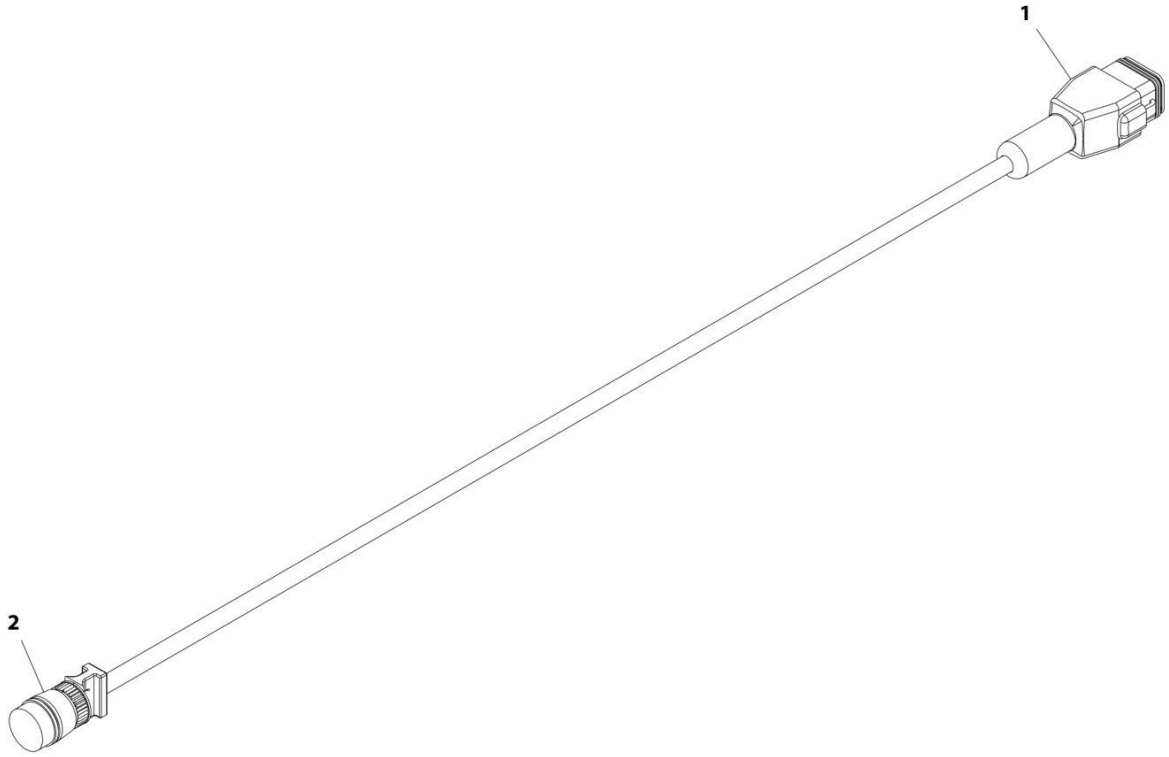


FIGURE 8-60. LOAD SENSING PIN HARNESS

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)	

FIGURE 8-61. LOCKOUT VALVE HARNESS

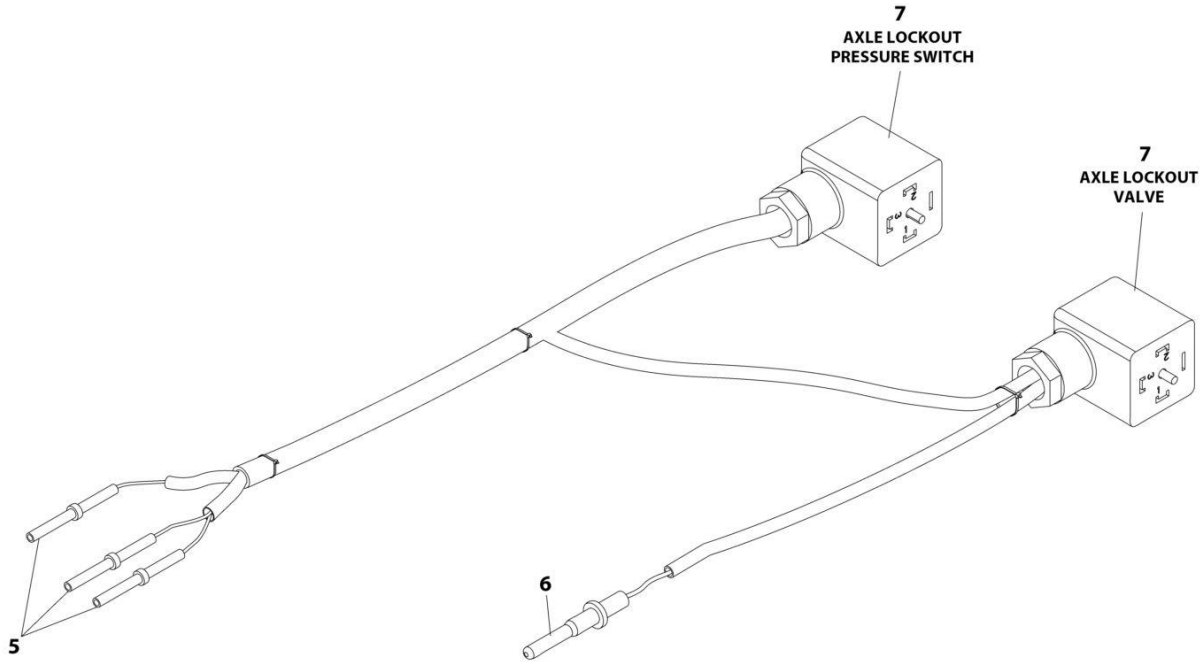


FIGURE 8-61. LOCKOUT VALVE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922767	Ref	LOCKOUT VALVE HARNESS	D
5	4460465	3	Socket, Female	
6	4460464	1	Pin, Male	
7	1001263923	2	Connector, Din	
8	4240033	6	Tie-Strap (Not Shown)	

FIGURE 8-62. MAIN BOOM CONTROL CABLE HARNESS

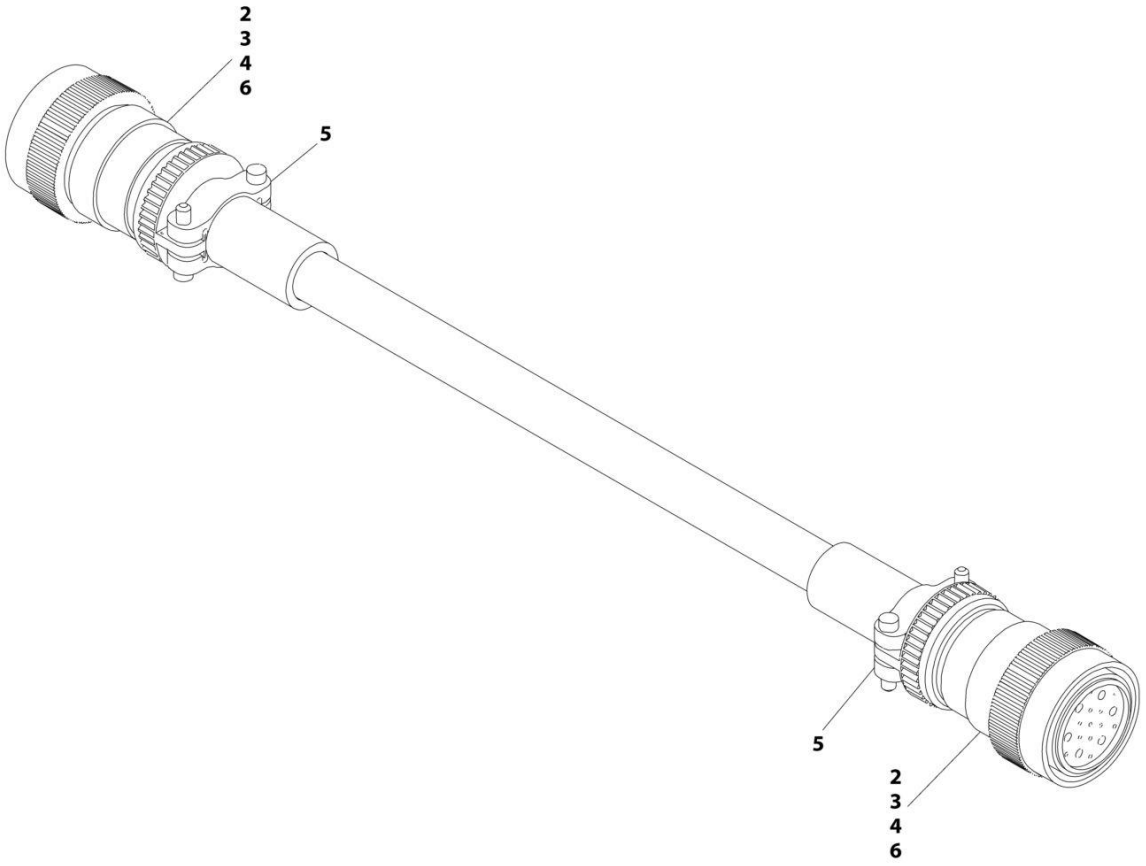


FIGURE 8-62. MAIN BOOM CONTROL CABLE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922955	Ref	MAIN BOOM CONTROL CABLE HARNESS	D
2	4460465	22	Socket, Female	
3	4460865	2	Connector - 19 Position	
4	4460509	8	Socket, Female	
5	4460473	2	Clamp	
6	4460466	8	Plug, Socket	

FIGURE 8-63. MAIN BOOM DUAL CAPACITY SWITCH HARNESS

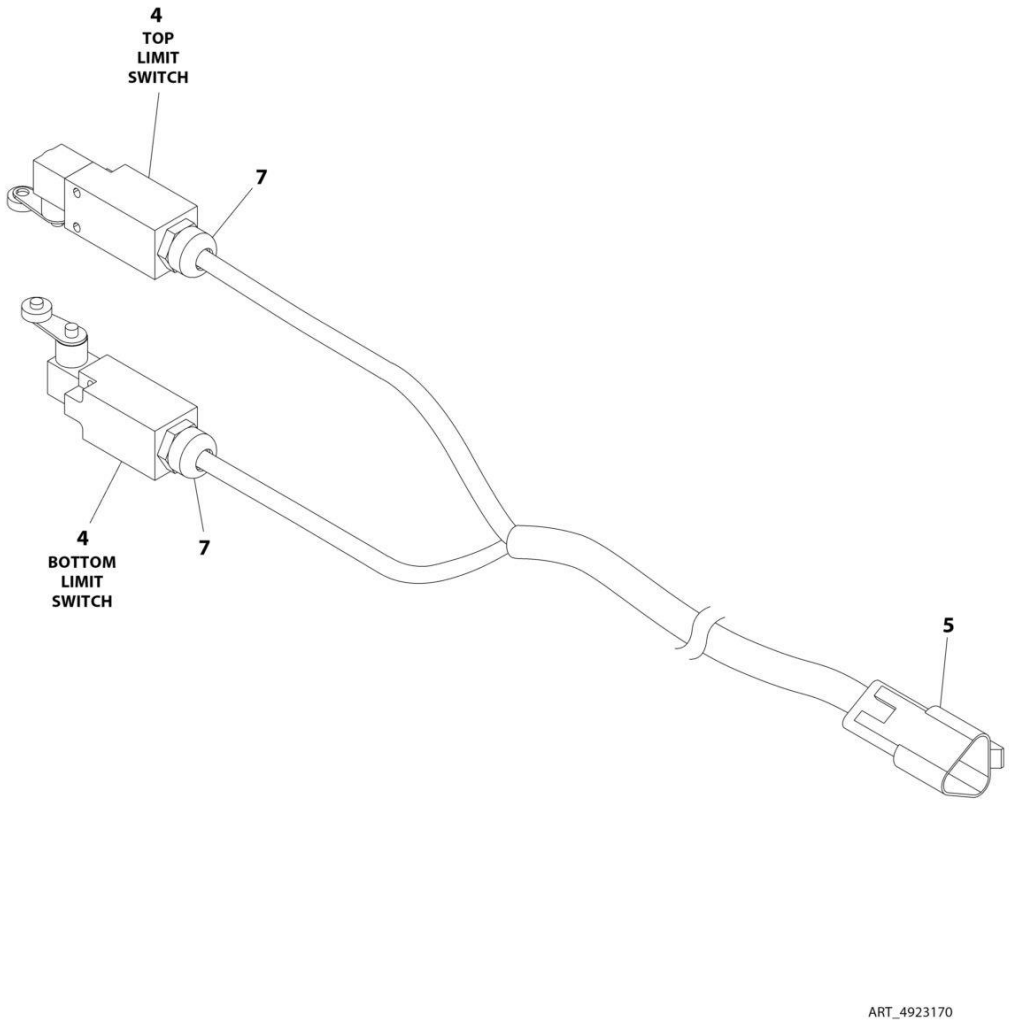


FIGURE 8-63. MAIN BOOM DUAL CAPACITY SWITCH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923170	Ref	MAIN BOOM DUAL CAPACITY SWITCH HARNESS	C
4	4360578	2	Switch, Limit	
5	4460536	1	Connector - 3 Position	
5	4460943	3	Pin, Male (Gold)	
7	4460968	2	Connector, Strain Relief	

FIGURE 8-64. MAIN BOOM TRANSPORT SWITCH HARNESS

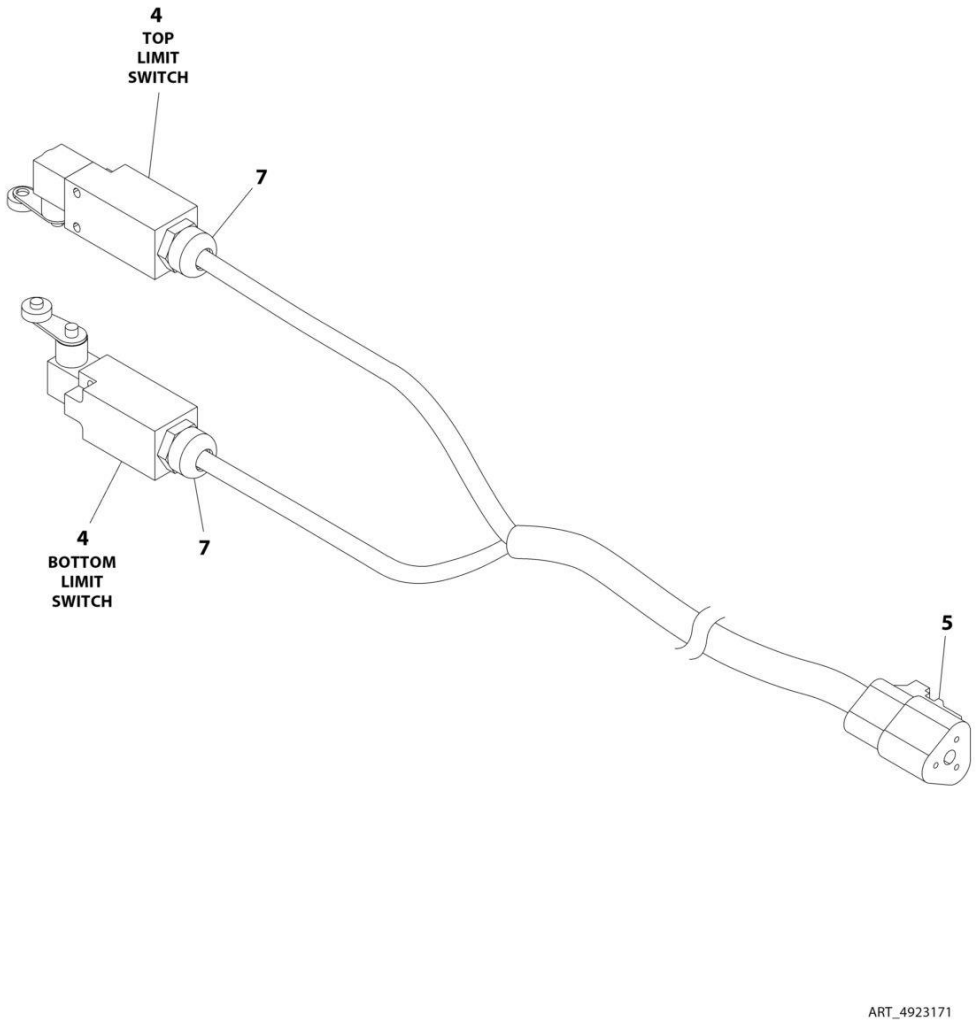


FIGURE 8-64. MAIN BOOM TRANSPORT SWITCH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923171	Ref	MAIN BOOM TRANSPORT SWITCH HARNESS	C
4	4360578	2	Switch, Limit	
5	4460539	1	Connector - 3 Position	
5	4460944	3	Socket, Female (Gold)	
7	4460968	2	Connector, Strain Relief	

FIGURE 8-65. MAIN VALVE HARNESS

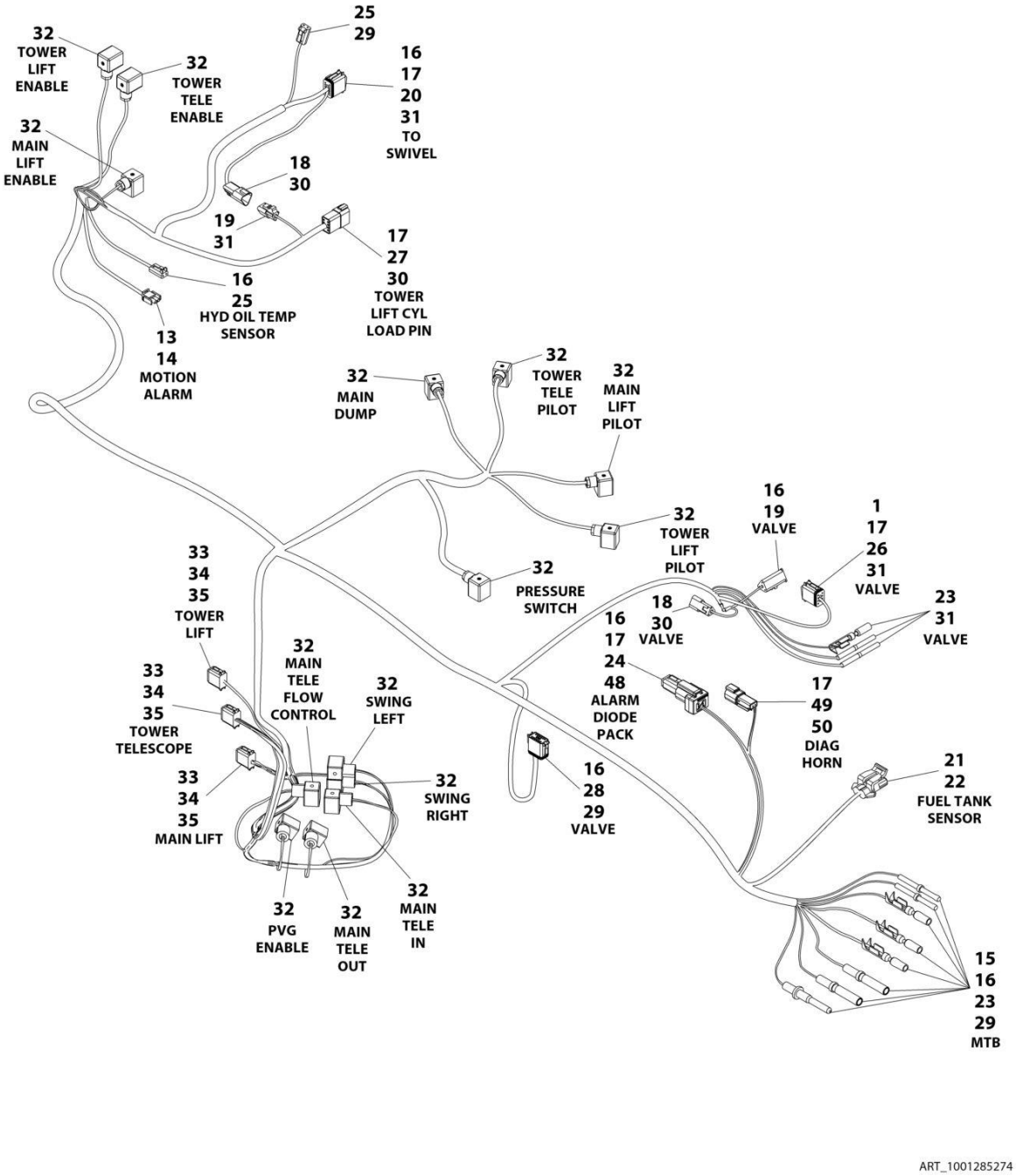


FIGURE 8-65. MAIN VALVE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001285274	Ref	MAIN VALVE HARNESS	A
1	0840062	1	Boot	
13	4460267	2	Pin	
14	4460320	1	Connector	
15	4460419	2	Socket 17 - 14AWG (Tin)	
16	4460465	19	Socket 20 - 16AWG (Nickel)	
17	4460466	12	Plug	
18	4460536	2	Connector	
19	4460539	2	Connector	
20	4460836	1	Connector	
21	4460842	2	Socket	
22	4460843	1	Connector	
23	4460871	29	Socket 20 - 16AWG (Gold)	
24	4460884	1	Connector	
25	4460891	2	Connector	
26	4460930	1	Connector	
27	4460931	1	Connector	
28	4460933	2	Connector	
29	4460942	8	Socket 16 - 14AWG (Nickel)	
30	4460943	11	Pin	
31	4460944	16	Socket 20 - 16AWG (Gold)	
32	1001263923	14	Connector	
33	4461004	3	Connector	
34	4461005	12	Terminal	
35	4461006	12	Seal	
36	4461007	3	Connector (Not Shown - Use with Item #33 4461004)	
37	4461008	12	Plug (Not Shown - Use with Item #33 4461004)	
48	1001152266	1	Connector, Diode Pack	
49	4460897	1	Connector	
50	4460464	1	Pin	

FIGURE 8-66. PLATFORM CONSOLE BOX HARNESS

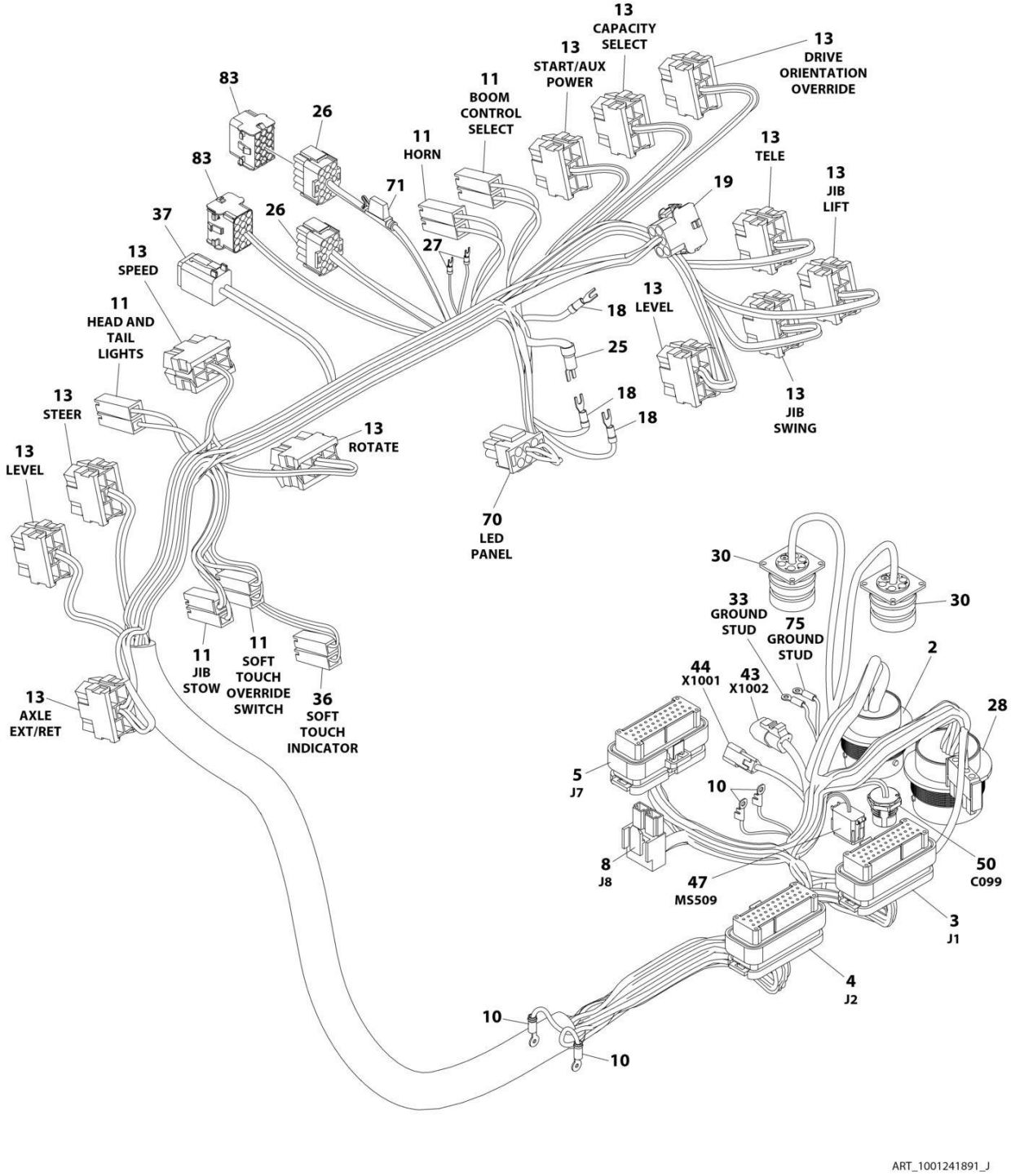


FIGURE 8-66. PLATFORM CONSOLE BOX HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241891	Ref	PLATFORM CONSOLE BOX HARNESS	J
2	4460866	1	Connector - 19 Pin	
2	4460464	7	Pin, Male Deutsch 16 Ga	
2	4460508	4	Pin, Male Deutsch 12 Ga	
2	4460943	3	Pin, Male 16 Ga (Gold)	
2	4460466	5	Plug	
3	4460874	1	Connector - 35 Position (Natural)	
3	4460871	33	Socket, Female	
3	4460905	2	Plug	
4	4460876	1	Connector - 35 Position (Blue)	
4	4460871	20	Socket, Female	
4	4460905	20	Plug	
5	4460873	1	Connector - 35 Position (Black)	
5	4460871	26	Socket, Female	
5	4460905	8	Plug	
8	4460879	1	Connector - 2 Position	
8	4460887	2	Terminal	
10	4460213	4	Terminal Eyelet	
11	4460260	10	Terminal, Housing	
11	4460259	10	Terminal	
13	4460418	12	Connector, Female - 6 Position	
13	4460419	12	Socket, Female	
13	1001159186	22	Terminal	
18	4460888	3	Terminal, Fork	
19	4460225	1	Connector - 6 Position	
19	4460227	5	Terminal (16 Gauge)	
25	4460806	1	Terminal, Fork	
26	4460434	2	Connector - 15 Position	
26	4460227	16	Pin, Male	
26	4460267	1	Pin, Male	
27	4460183	11	Terminal, Fork	
28	4460925	1	Connector - 21 Pin	
28	1001126011	13	Pin, Male Deutsch 16 Ga	
28	4460466	8	Plug	
30	1001121616	2	Connector - 6 Position	
30	1001121615	2	Base, Mounting	
33	4460142	1	Terminal, Eyelet	
36	4460016	2	Terminal (16 - 14AWG)	
36	1001271497	2	Terminal (22 - 18AWG)	
37	4460894	1	Connector - 6 Position	
37	4460465	5	Socket, Female	
37	4460466	1	Plug	
43	4460539	1	Plug, Male - 3 Position	
43	4460944	3	Socket, Female (Gold)	
44	4460536	1	Connector - 3 Position	
44	4460943	3	Pin, Male (Gold)	
47	4460933	1	Connector, Gray - 12 Position	
47	4460944	10	Socket, Female (Gold)	
47	4460466	2	Plug	
47	1001119020	1	Bussbar - 12 Position	

SECTION 8 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001213447	1	Connector - 5 Position	
70	1001237667	1	Connector - 6 Position	
70	1001237668	4	Socket, Female (Gold)	
71	2400060	1	Holder, Fuse	
71	8229249	1	Fuse	
75	4460042	1	Terminal, Ring	
83	4460708	2	Plug, Male - 15 Position	
83	4460226	2	Socket, Female	

FIGURE 8-67. SKYGUARD INERFACE HARNESS

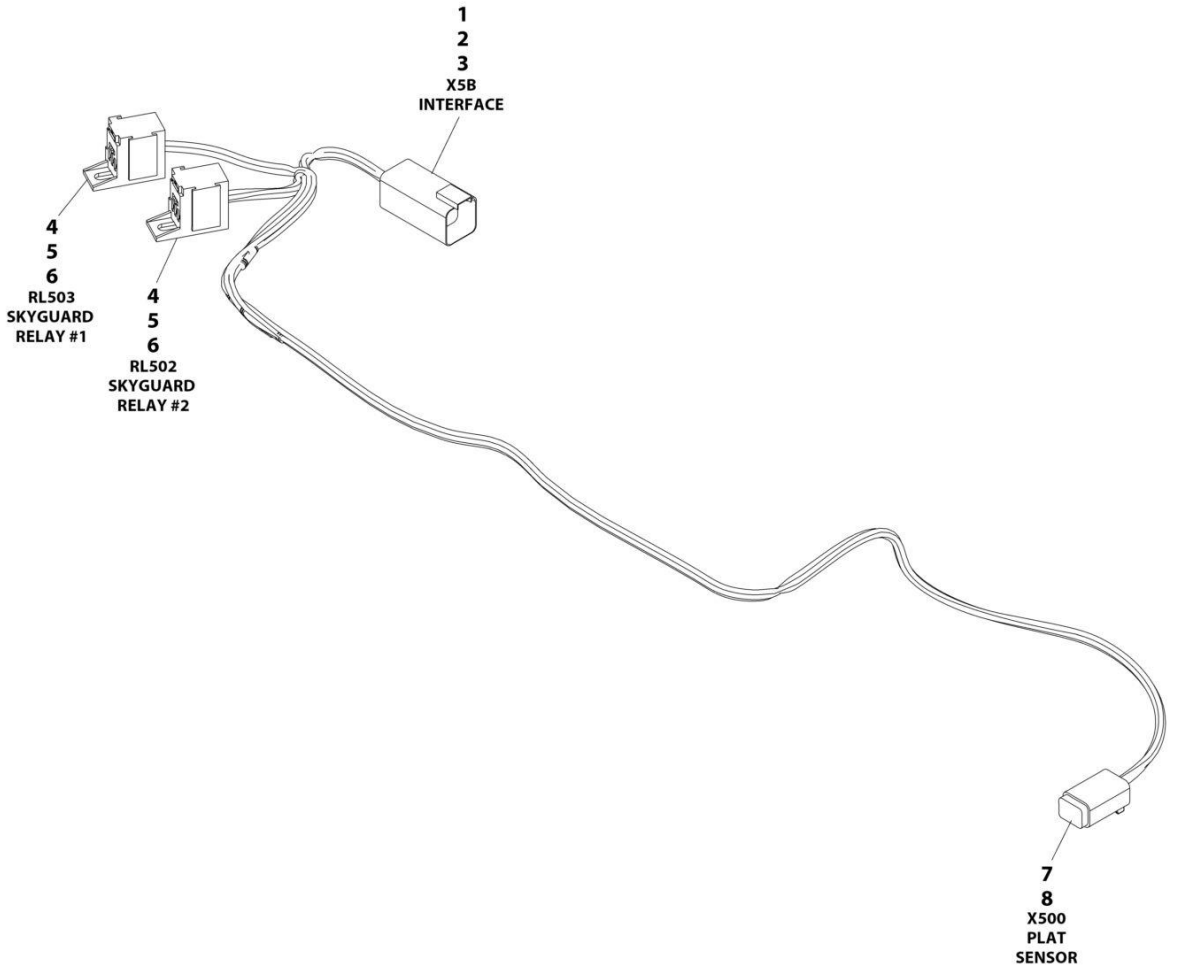


FIGURE 8-67. SKYGUARD INERFACE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225580	Ref	PLATFORM INTERFACE HARNESS - WITH 1 CELL LSS	E
1	4460899	1	Connector	
2	4460464	4	Terminal	
3	4460466	2	Plug	
4	1001186432	2	Connector	
5	1001253375	4	Terminal	
6	1001104519	4	Terminal	
7	4460884	1	Connector	
8	4460465	4	Terminal	

FIGURE 8-68. PLATFORM VALVE HARNESS

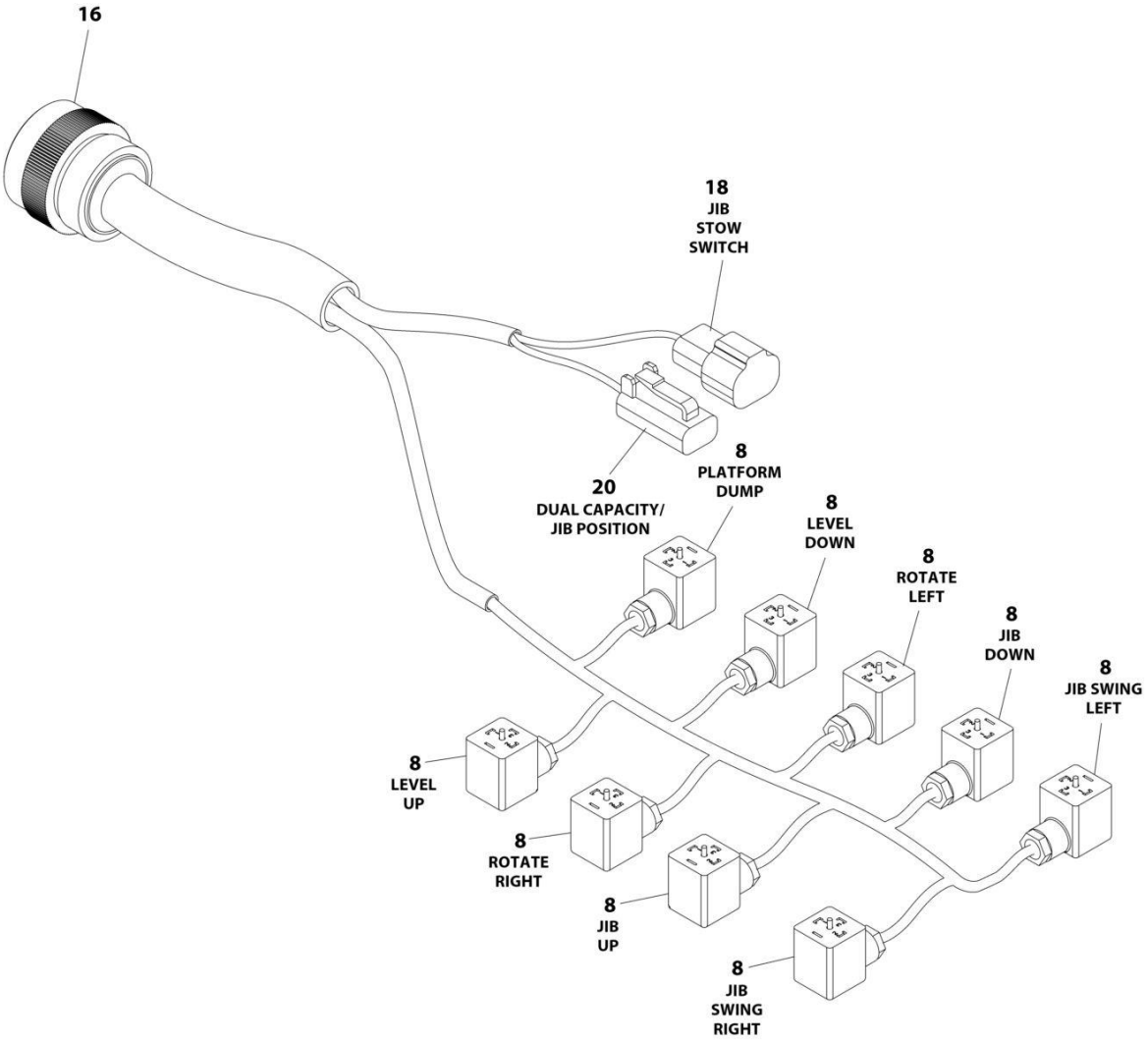


FIGURE 8-68. PLATFORM VALVE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922777	Ref	PLATFORM VALVE HARNESS	E
7	4240033	10	Tie-Strap (Not Shown)	
8	1001263923	9	DIN Connector	
16	4460926	1	Connector - 21 Position	
16	4460928	13	Socket, Female	
16	4460466	8	Plug, Hole	
18	4460897	1	Connector - 2 Position	
18	4460464	2	Pin, Male	
20	4460891	1	Plug, Male - 2 Position	
20	4460465	2	Socket, Female	

FIGURE 8-69. PRESSURE TRANSDUCER HARNESS

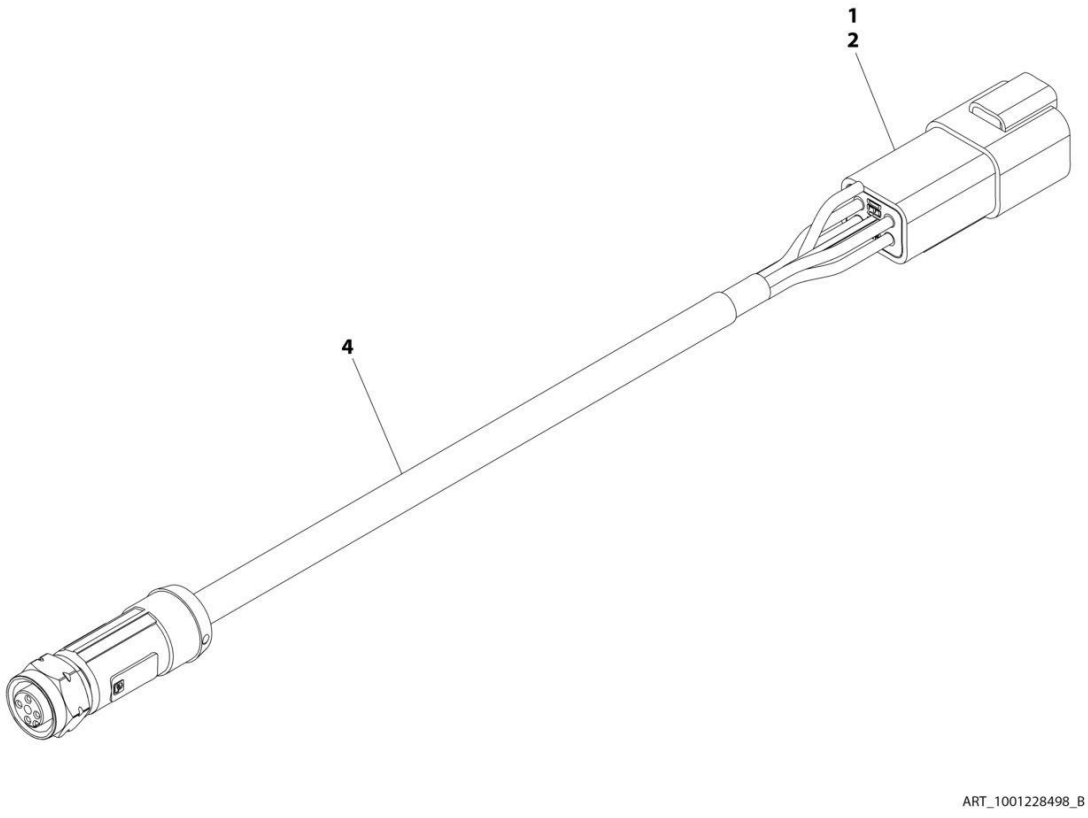


FIGURE 8-69. PRESSURE TRANSDUCER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228498	Ref	PRESSURE TRANSDUCER HARNESS	B
1	4460464	4	Pin	
2	4460932	1	Connector	
4	1001163747	1	Cable	

FIGURE 8-70. PRESSURE TRANSDUCER HARNESS

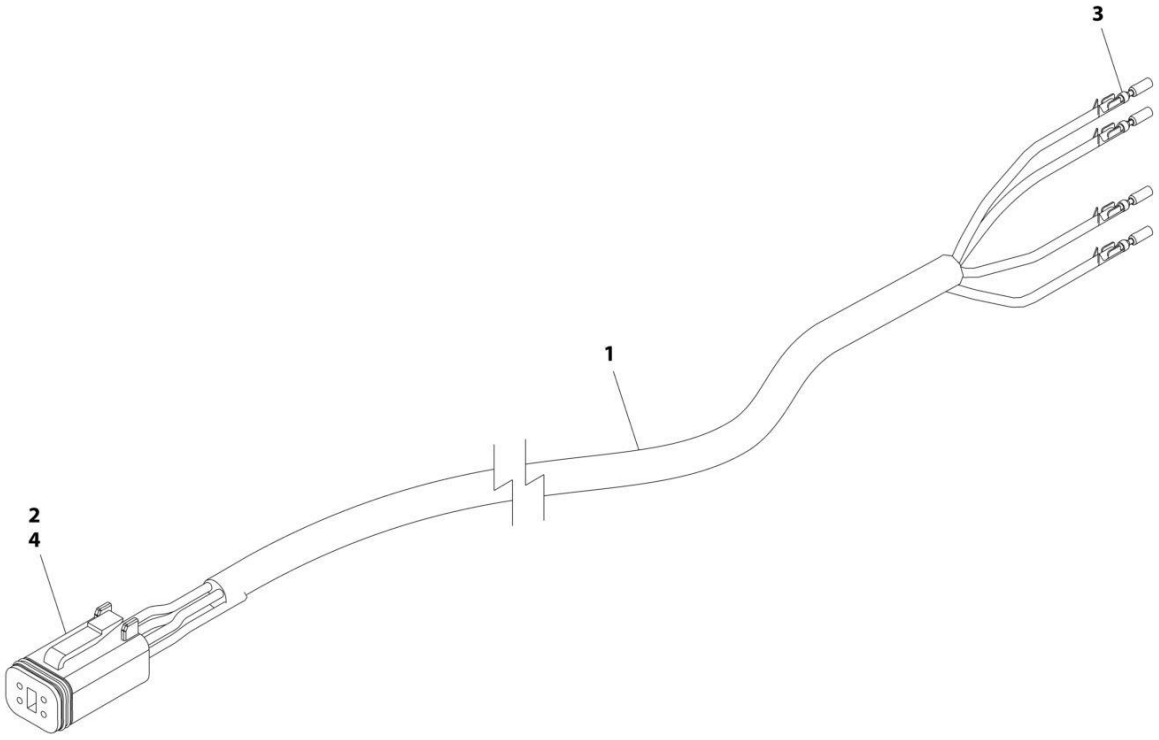


FIGURE 8-70. PRESSURE TRANSDUCER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228497	Ref	PRESSURE TRANSDUCER HARNESS	A
1	1060981	11 ft/ 3.35m	Cable, Electrical 18/3	
2	4460465	4	Socket, Female	
3	4460871	4	Socket, Female	
4	4460884	1	Connector - 4 Position	

FIGURE 8-71. PUMP ADAPTER HARNESS - SAUER PUMPS

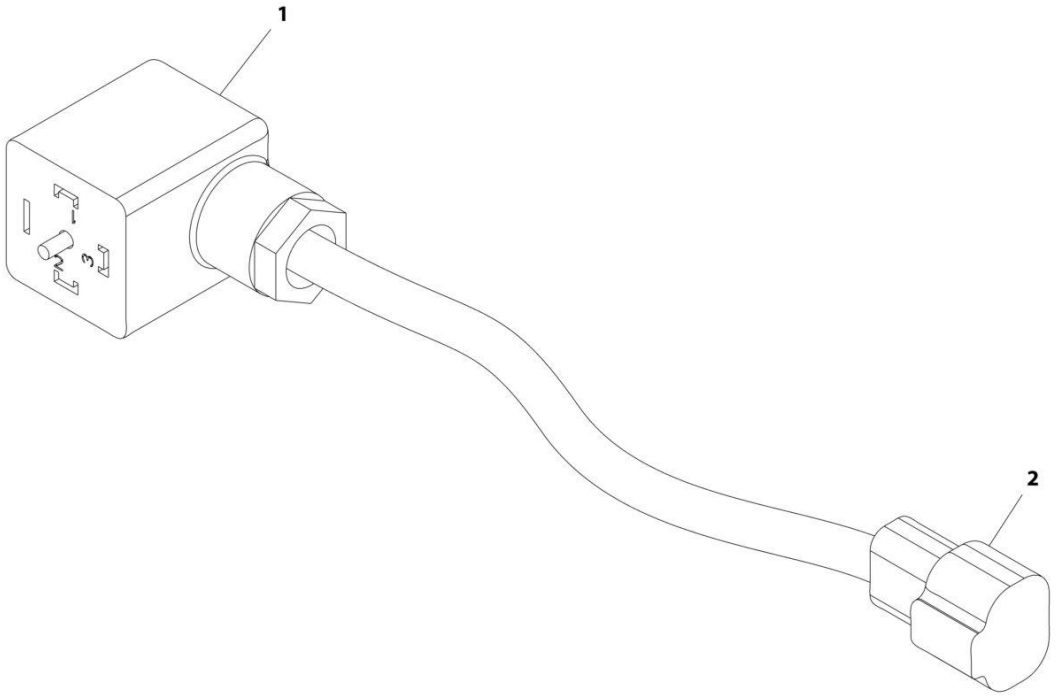


FIGURE 8-71. PUMP ADAPTER HARNESS - SAUER PUMPS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001119456	Ref	PUMP ADAPTER HARNESS - SAUER PUMPS	C
1	4460880	2	DIN Connector	
2	4460897	2	Connector - 2 Position	
2	4460464	4	Pin, Male	

FIGURE 8-72. RECEPTACLE BOX KIT - 110V IEC YELLOW WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

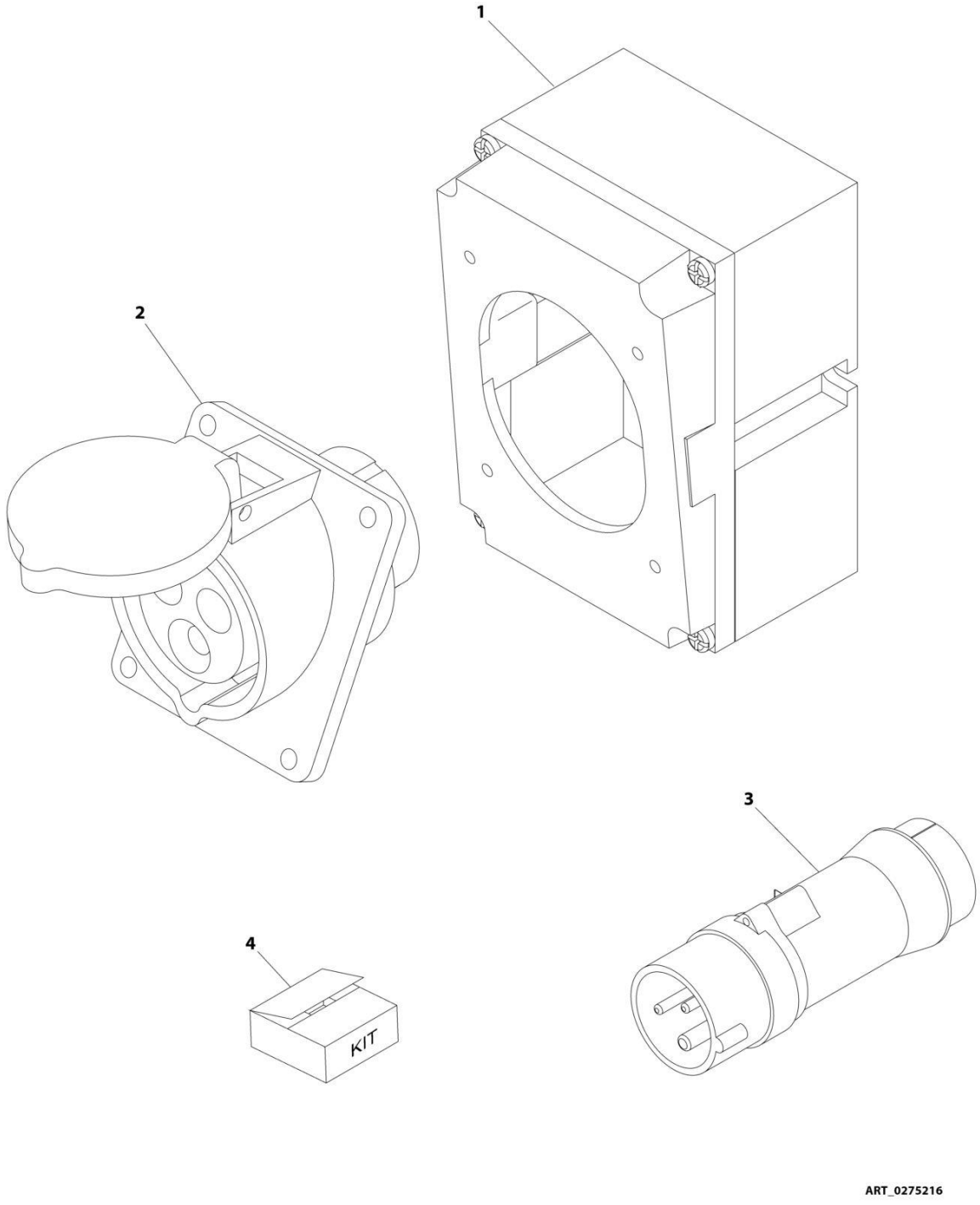


FIGURE 8-72. RECEPTACLE BOX KIT - 110V IEC YELLOW WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275216	Ref	RECEPTACLE BOX KIT - 110V IEC YELLOW	B
1	0861781	1	Box, Switch	
2	4461198	1	Receptacle	
3	4461196	1	Plug, Male	
4	1001100341	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461197)	

FIGURE 8-73. RECEPTACLE BOX KIT - 110V IEC YELLOW WITH 2500W GENERATOR (CE & UK CA SPECS)

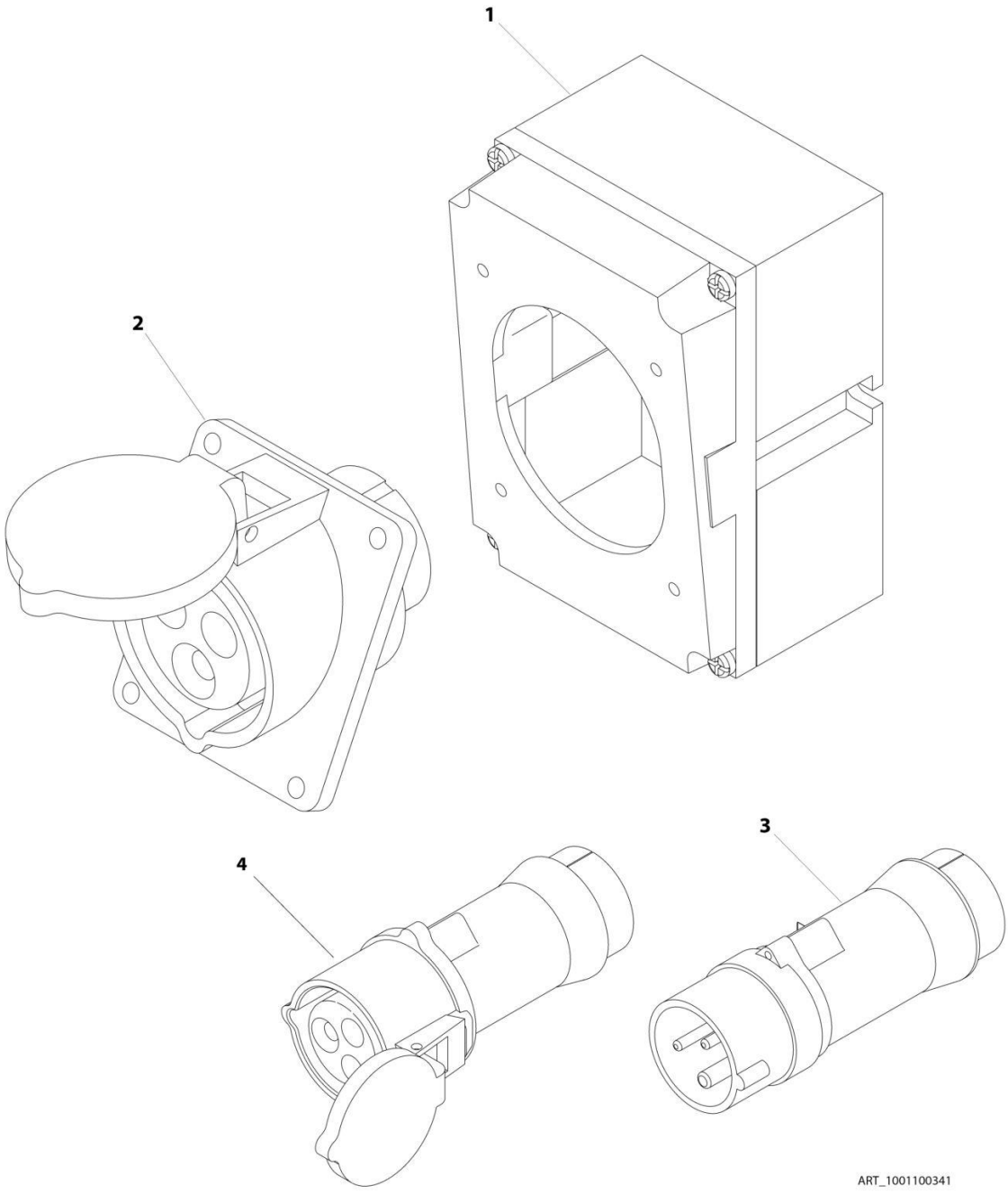


FIGURE 8-73. RECEPTACLE BOX KIT - 110V IEC YELLOW WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100341	Ref	RECEPTACLE BOX KIT - 110V IEC YELLOW	2
1	0861781	1	Box, Switch	
2	4461198	1	Receptacle	
3	4461196	1	Plug, Male	
4	4461197	1	Plug, Female	

FIGURE 8-74. RECEPTACLE BOX KIT - 220V IEC BLUE WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

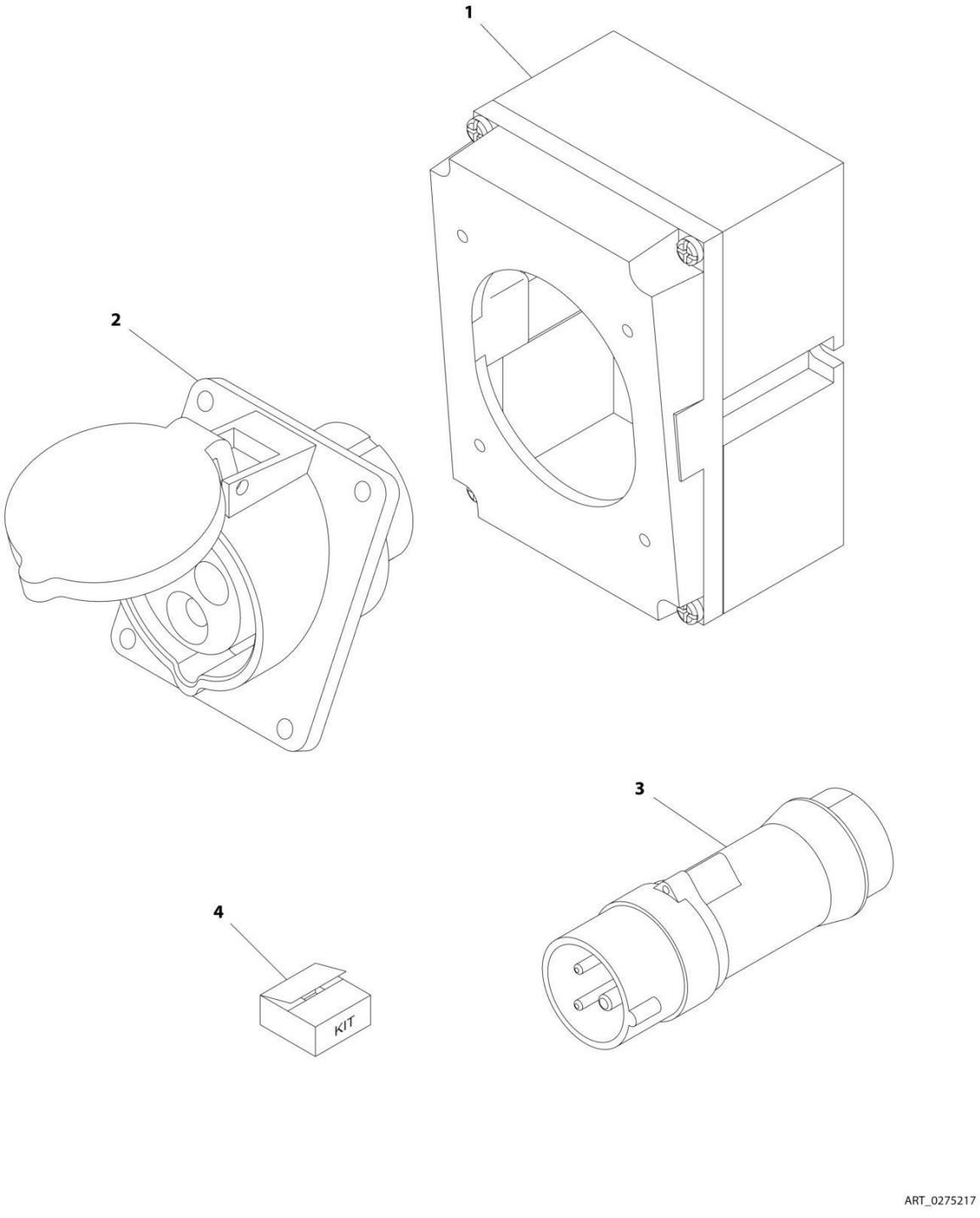


FIGURE 8-74. RECEPTACLE BOX KIT - 220V IEC BLUE WITHOUT 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275217	Ref	RECEPTACLE BOX KIT - 220V IEC BLUE	B
1	0861781	1	Box, Switch	
2	4461201	1	Receptacle	
3	4461199	1	Plug, Male	
4	1001100342	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461200)	

FIGURE 8-75. RECEPTACLE BOX KIT - 220V IEC BLUE WITH 2500W GENERATOR (CE & UK CA SPECS)

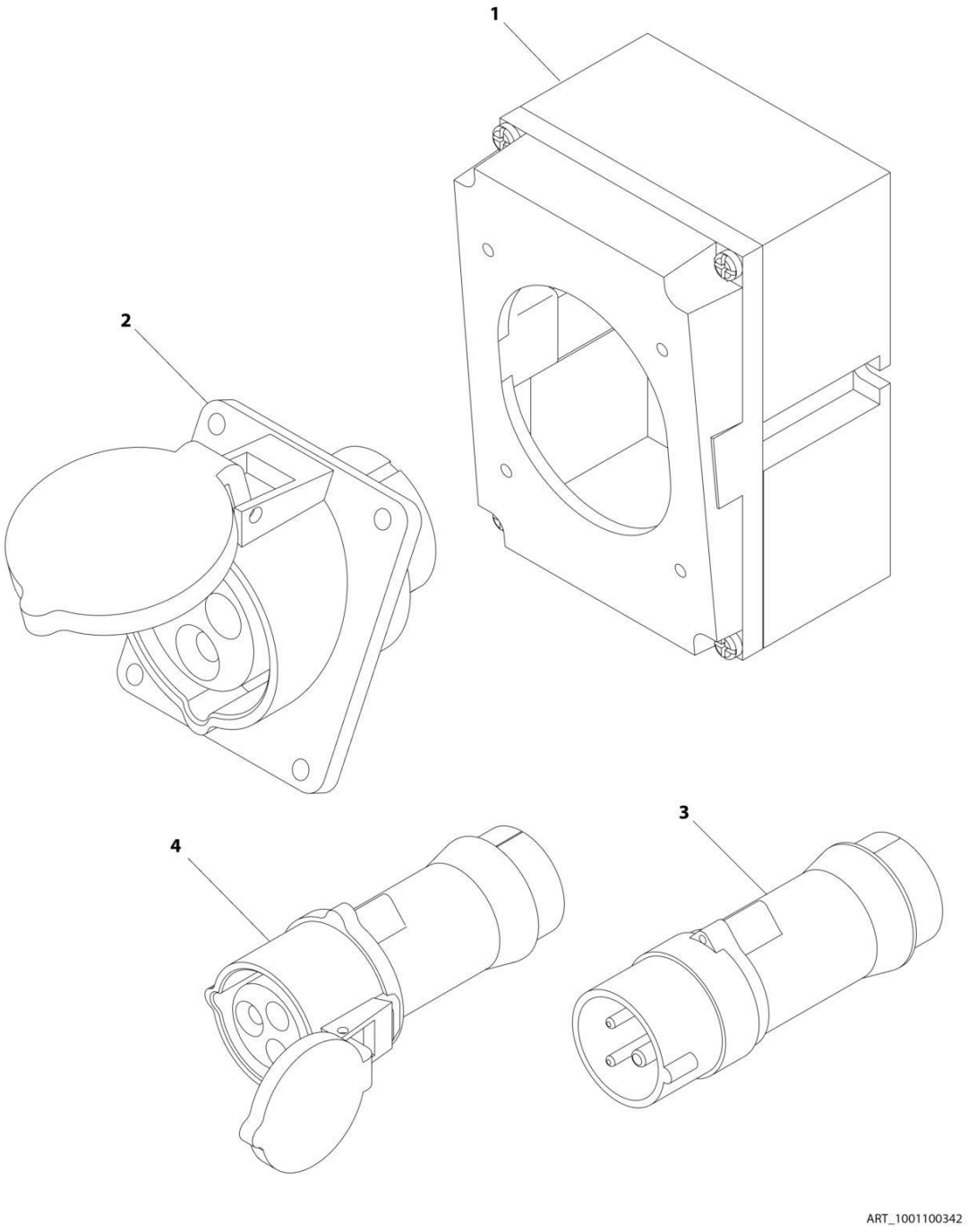


FIGURE 8-75. RECEPTACLE BOX KIT - 220V IEC BLUE WITH 2500W GENERATOR (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100342	Ref	RECEPTACLE BOX KIT - 220V IEC BLUE WITH 2500W GENERATOR (CE & UK CA SPECS)	2
1	0861781	1	Box, Switch	
2	4461201	1	Receptacle	
3	4461199	1	Plug, Male	
4	4461200	1	Plug, Female	

FIGURE 8-76. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND WITHOUT 2500W GENERSTOR (2X4 BOX) (CE & UK CA SPECS)

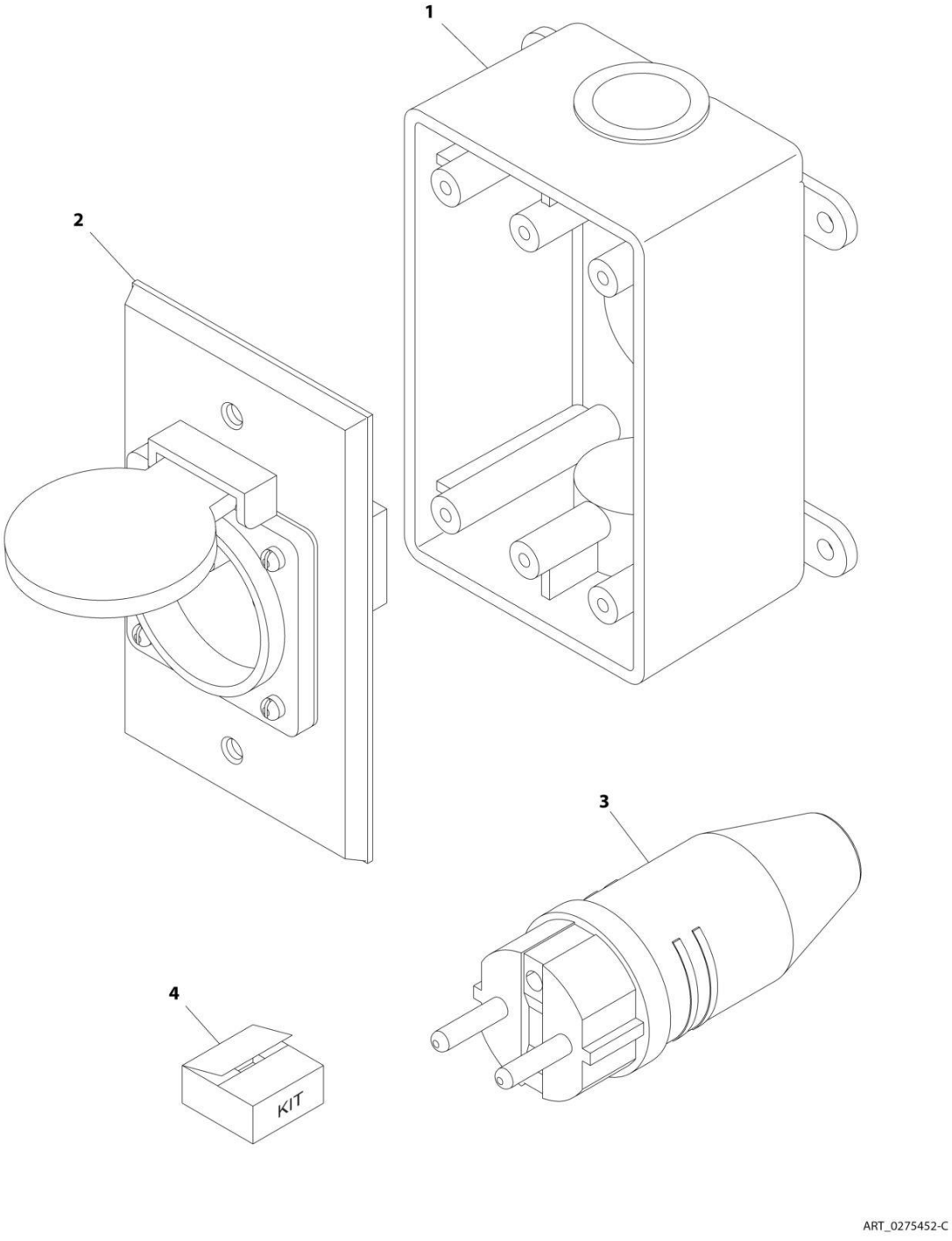


FIGURE 8-76. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND WITHOUT 2500W GENERSTOR (2X4 BOX) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275452	Ref	RECEPTACLE BOX KIT - 220V CEE7 POST GROUND 2IN X 4IN BOX	C
1	0861731	1	Box, Switch	
2	4461244	1	Receptacle	
3	4461205	1	Plug, Male	
4	1001100345	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461203)	

FIGURE 8-77. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND WITH 2500W GENERSTOR (2X4 BOX) (CE & UK CA SPECS)

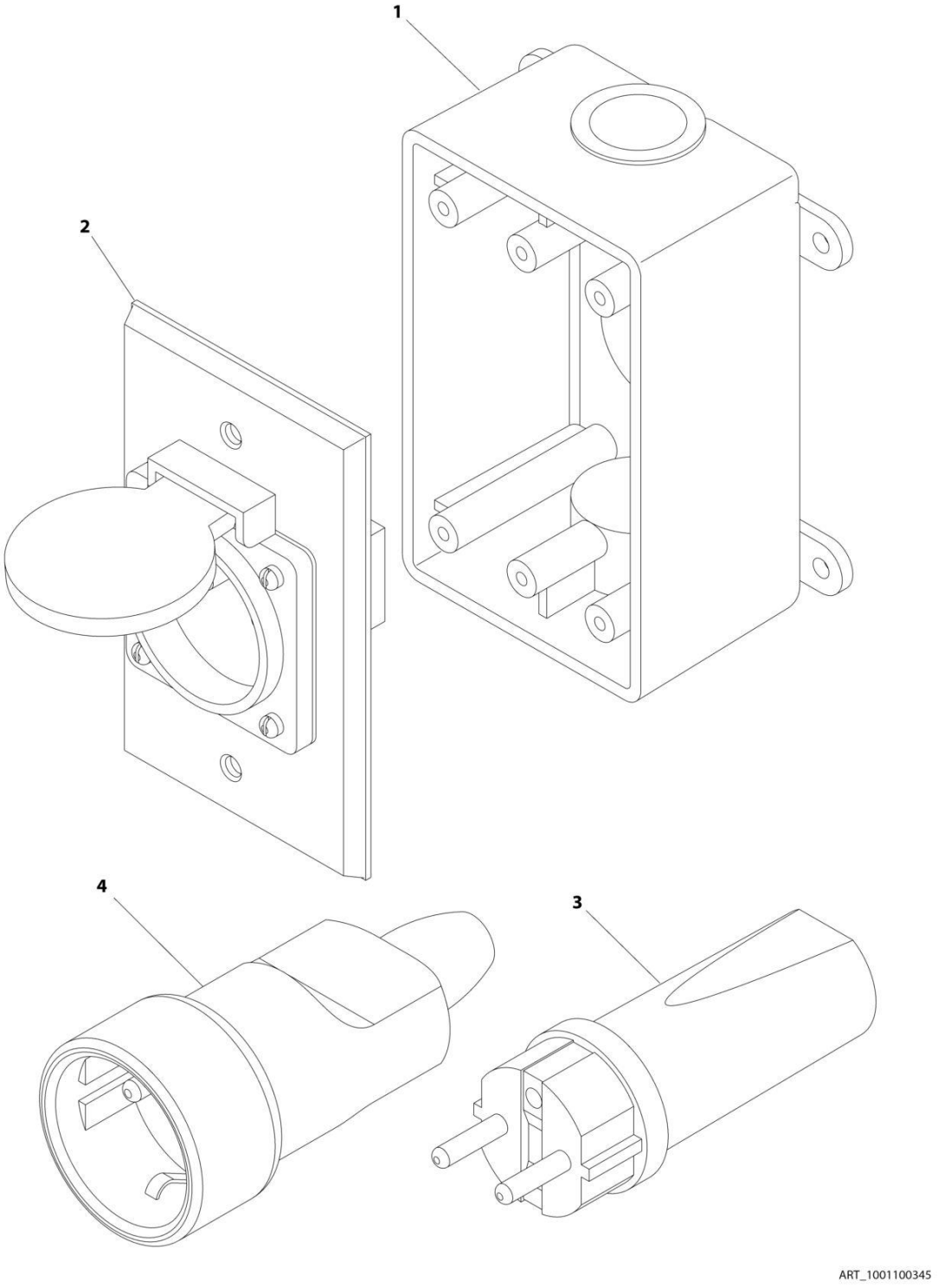


FIGURE 8-77. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND WITH 2500W GENERSTOR (2X4 BOX) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100345	Ref	RECEPTACLE BOX KIT - 220V CEE7 POST GROUND	C
1	0861731	1	Box, Switch	
2	4461244	1	Receptacle	
3	4461205	1	Plug, Male	
4	4461203	1	Plug, Female	

FIGURE 8-78. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND WITHOUT 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

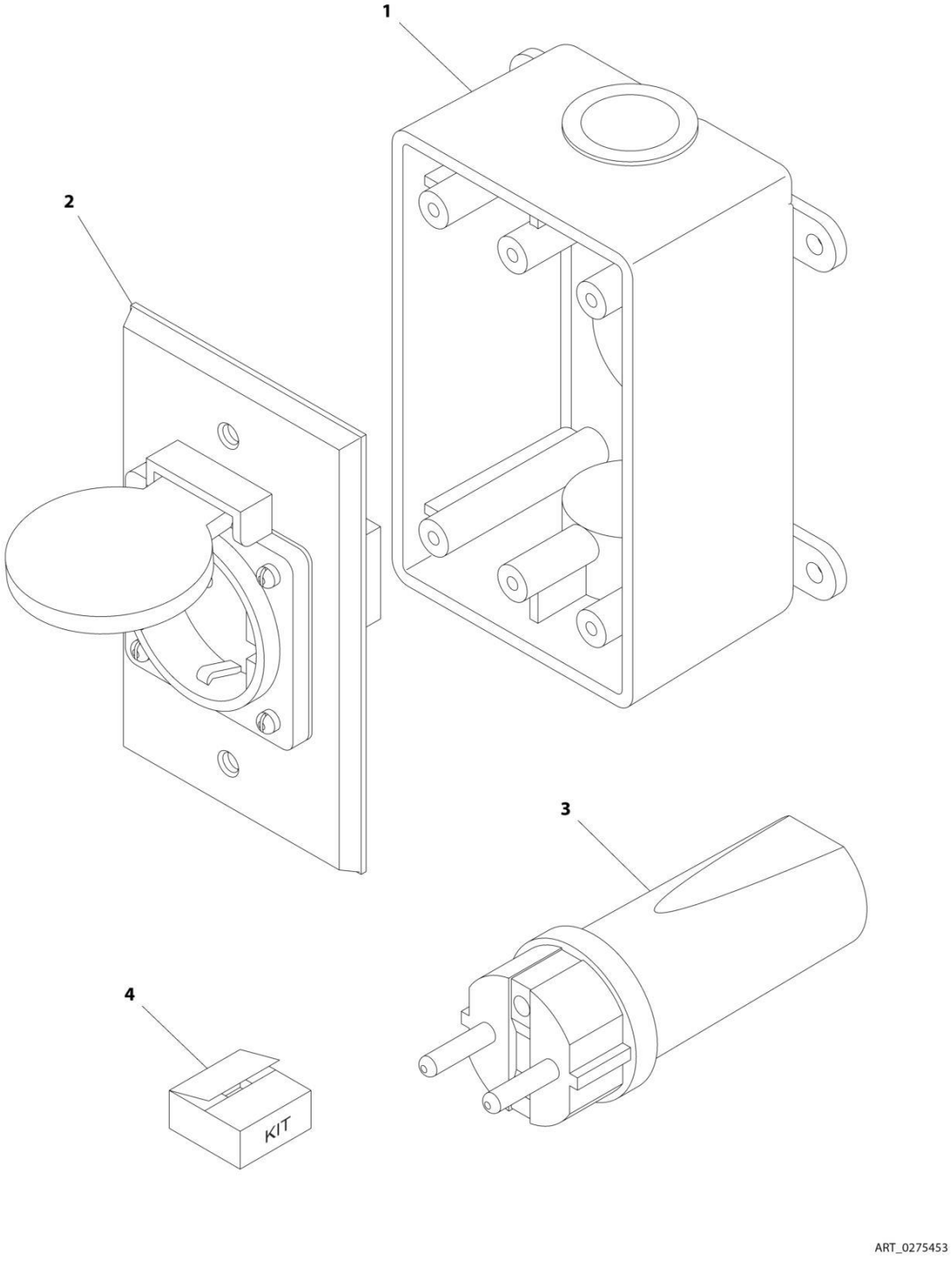


FIGURE 8-78. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND WITHOUT 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275453	Ref	RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND	B
1	0861731	1	Box, Switch	
2	4461245	1	Receptacle	
3	4461205	1	Plug, Male	
4	1001100347	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461206)	

FIGURE 8-79. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND WITH 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

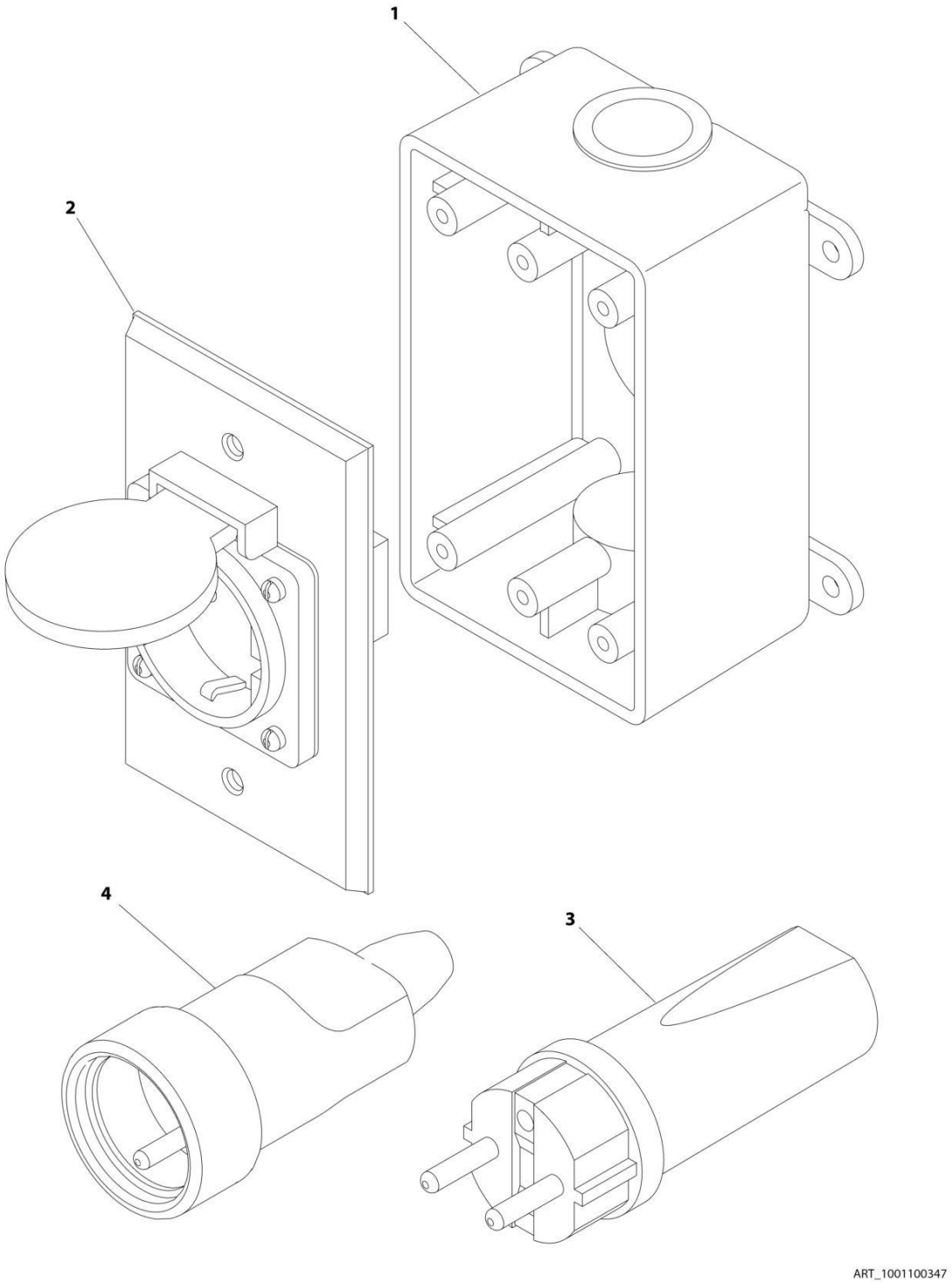


FIGURE 8-79. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND WITH 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100347	Ref	RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND	3
1	0861731	1	Box, Switch	
2	4461245	1	Receptacle	
3	4461205	1	Plug, Male	
4	4461206	1	Plug, Female	

FIGURE 8-80. RECEPTACLE BOX KIT - 220V AFSINT 107 KEYED GROUND WITHOUT 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

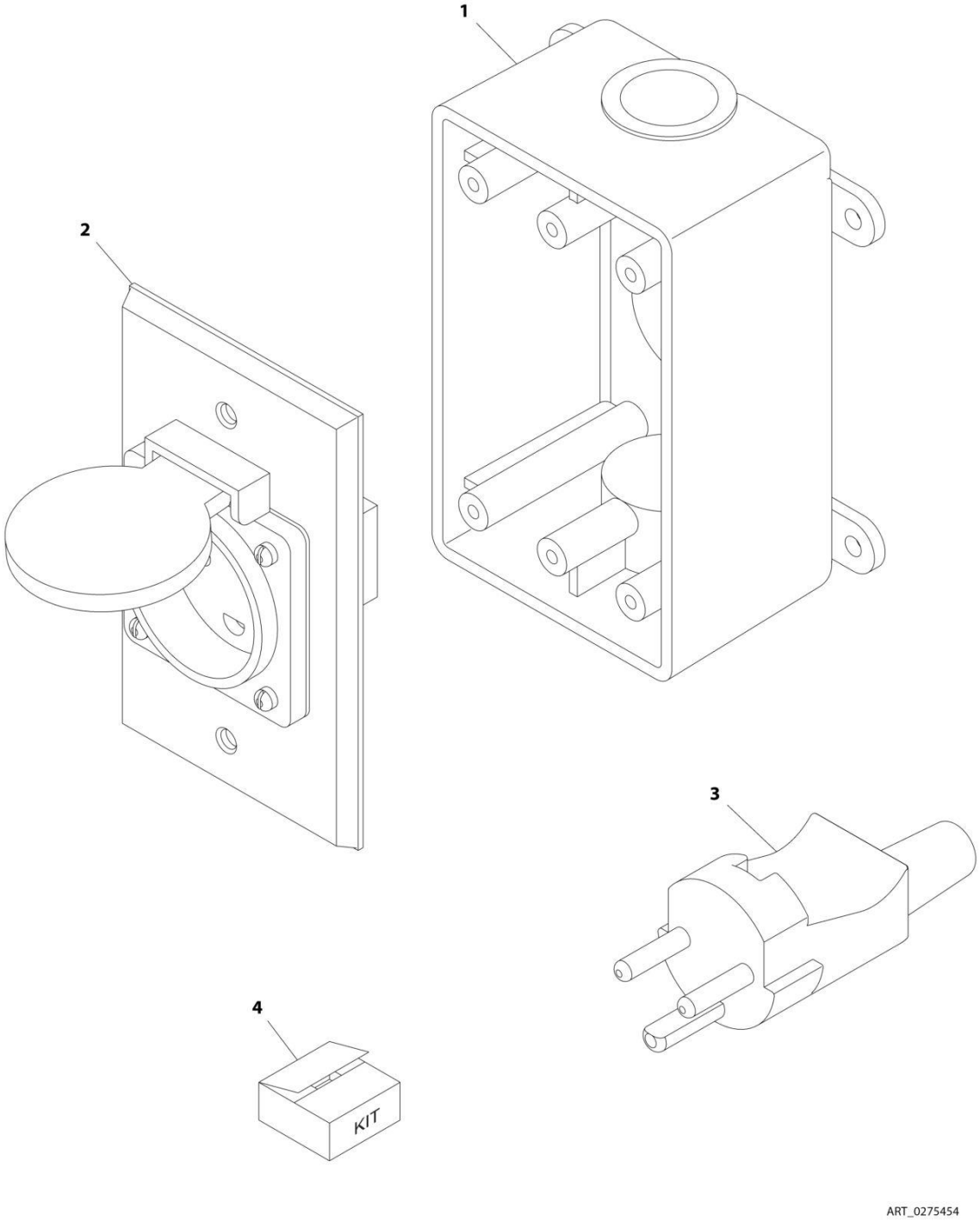


FIGURE 8-80. RECEPTACLE BOX KIT - 220V AFSINT 107 KEYED GROUND WITHOUT 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275454	Ref	RECEPTACLE BOX KIT - 220V AFSINT 107	B
1	0861731	1	Box, Switch	
2	4461246	1	Receptacle	
3	4461249	1	Plug, Male	
4	1001100346	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461250)	

FIGURE 8-81. RECEPTACLE BOX KIT - 220V AFSINT 107 KEYED GROUND WITH 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

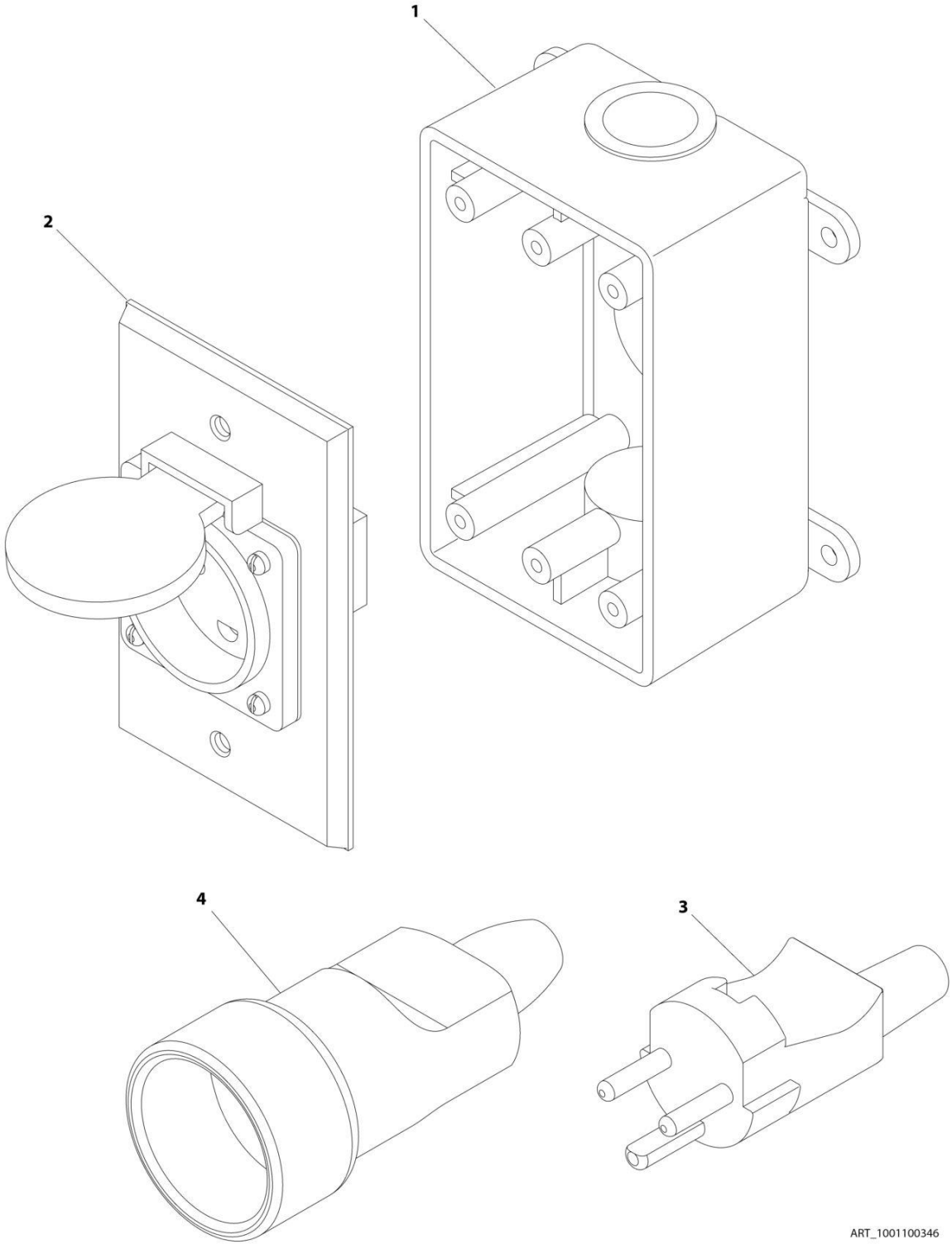


FIGURE 8-81. RECEPTACLE BOX KIT - 220V AFSINT 107 KEYED GROUND WITH 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100346	Ref	RECEPTACLE BOX KIT - 220V AFSINT 107 KEYED GROUND WITH 2500W GENERATOR (2X4 BOX) (CE & UK CA SPECS)	2
1	0861731	1	Box, Switch	
2	4461246	1	Receptacle	
3	4461249	1	Plug, Male	
4	4461250	1	Plug, Female	

FIGURE 8-82. RELAY HARNESS

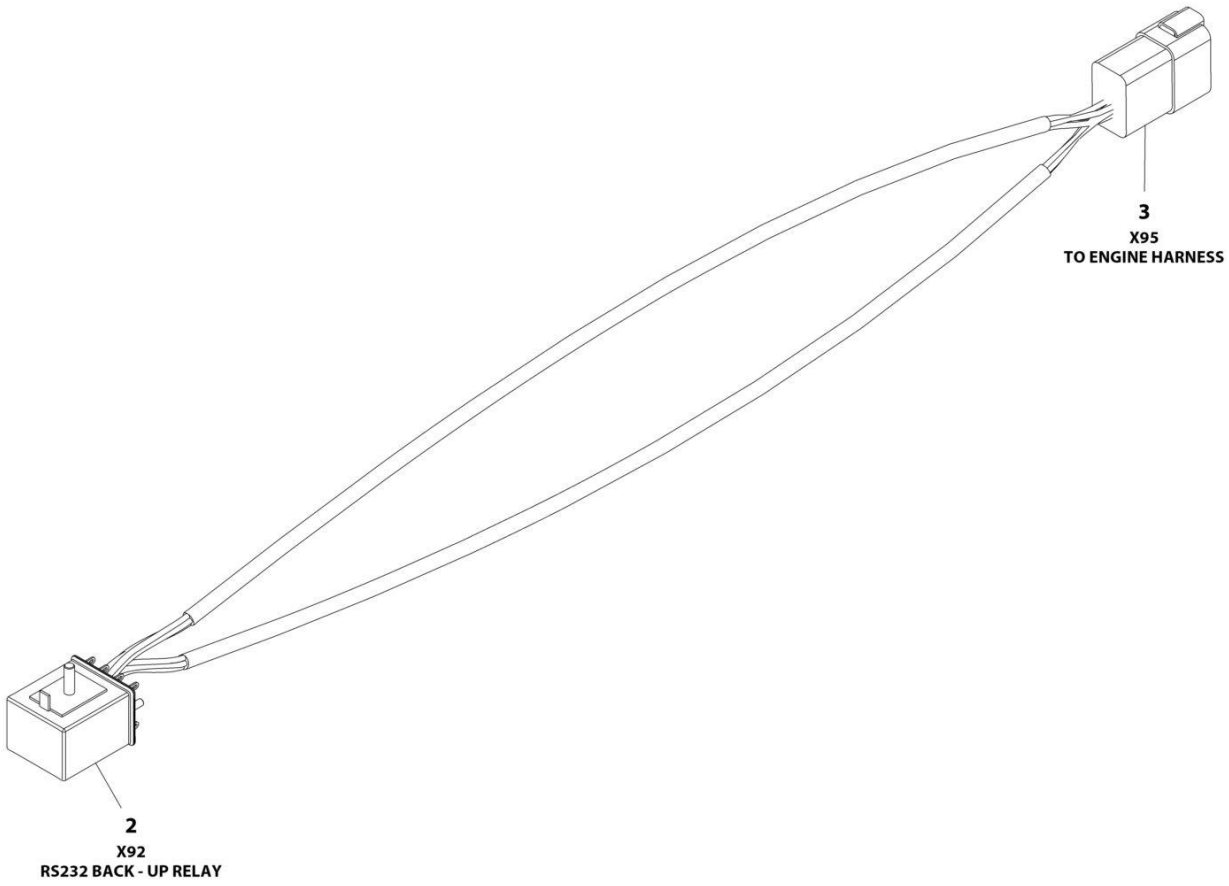


FIGURE 8-82. RELAY HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923036	Ref	RELAY HARNESS	E
2	3740143	1	Relay	
3	4460931	1	Connector - 8 Position	
3	4460943	8	Pin, Male	

FIGURE 8-83. STROBE LIGHT HARNESS

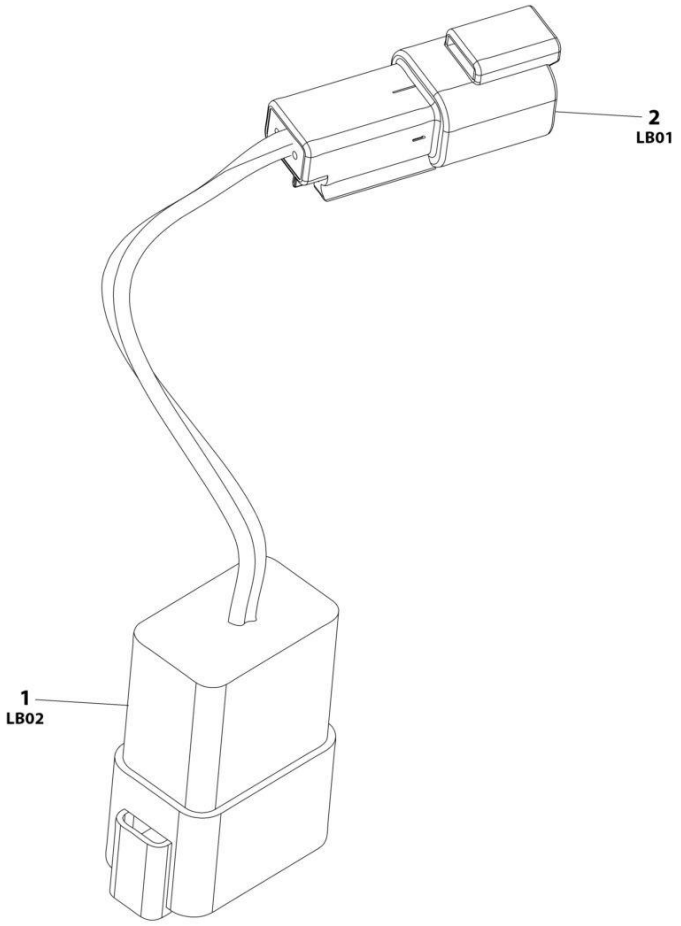


FIGURE 8-83. STROBE LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001283776	Ref	STROBE LIGHT HARNESS (AMBER)	A
1	4460931	1	Connector	
1	4460464	2	Pin	
1	4460466	6	Plug	
2	4460897	1	Connector	
2	4460464	2	Pin	

FIGURE 8-84. BEACON LIGHT HARNESS

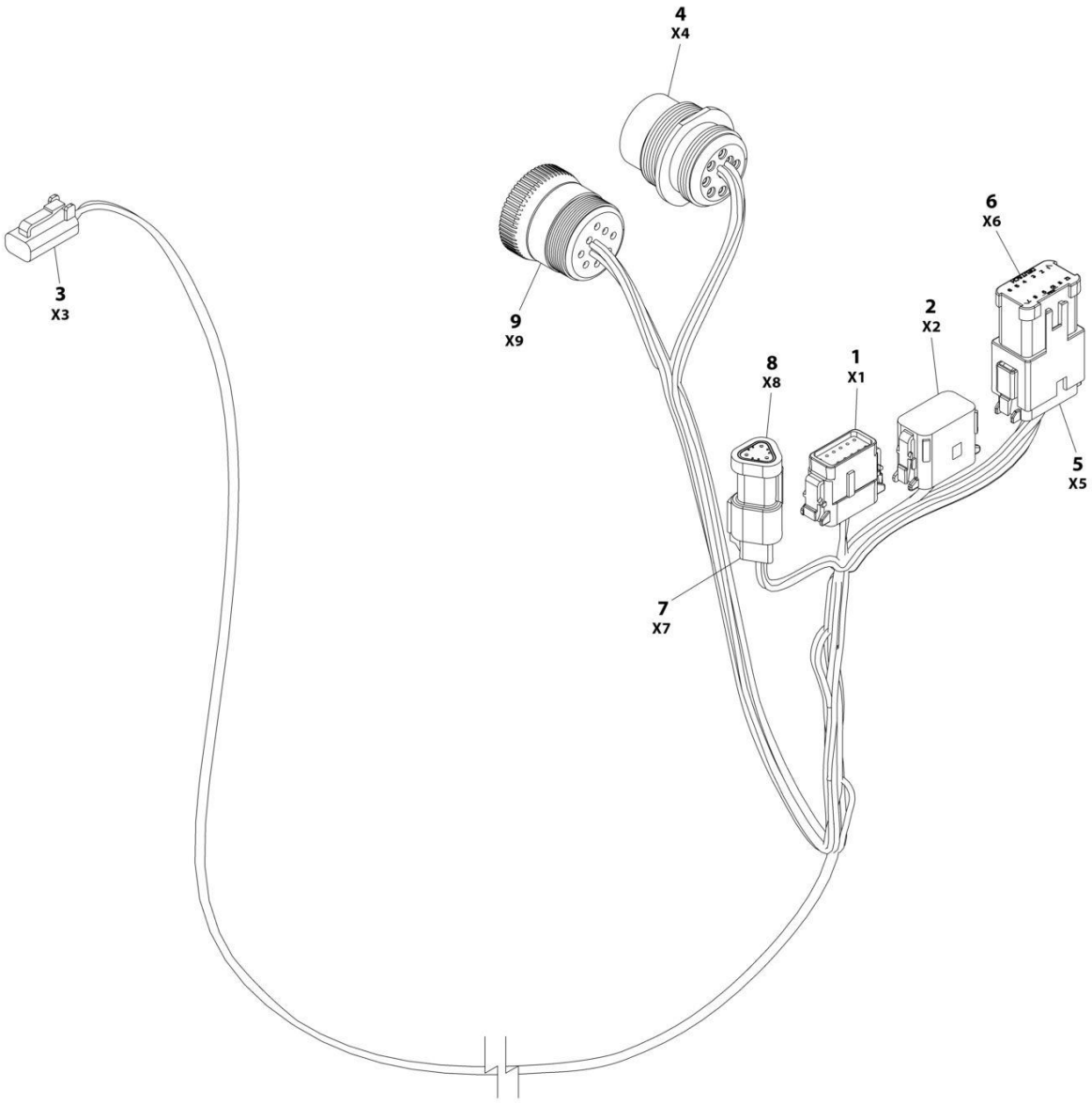


FIGURE 8-84. BEACON LIGHT HARNESS

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	

FIGURE 8-85. TILT SENSOR HARNESS (LEFT)

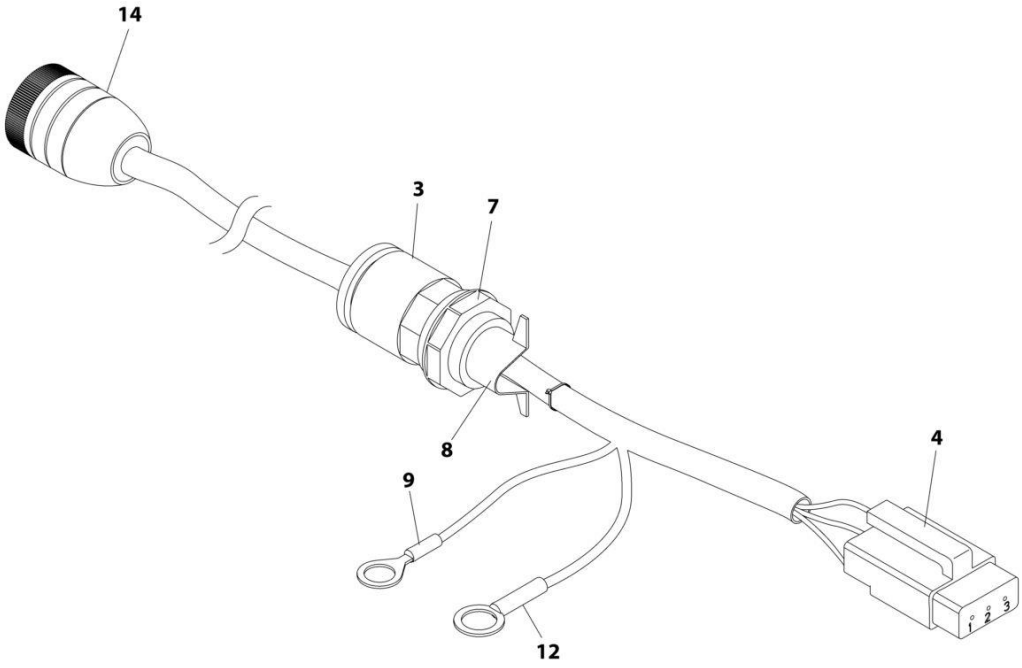


FIGURE 8-85. TILT SENSOR HARNESS (LEFT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922948	Ref	TILT SENSOR HARNESS (LEFT)	E
3	1560011	1	Connector, Conduit	
4	4460911	1	Connector - 3 Position	
4	4460912	1	Lock, Wedge	
4	4460918	3	Pin, Male	
7	1560012	1	Nut, Conduit	
8	1320309	1	Clamp, Cable	
9	4460702	1	Terminal, Eyelet	
10	4240032	2	Tie-Strap (Not Shown)	
12	4460256	1	Terminal, Eyelet	
14	4461013	1	Connector - 6 Position	

FIGURE 8-86. TILT SENSOR HARNESS (RIGHT)

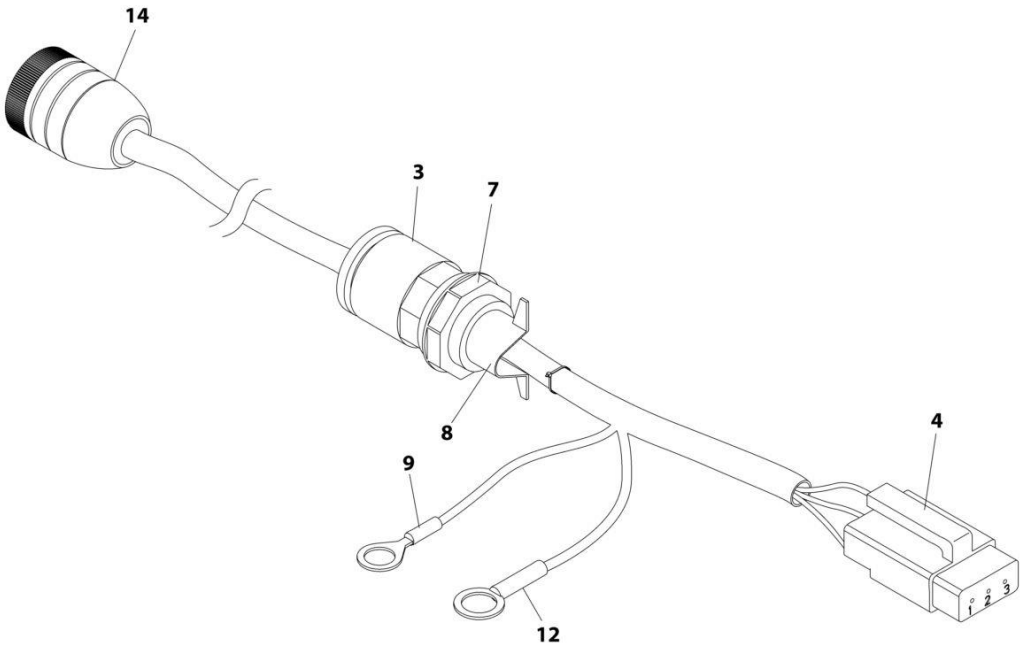


FIGURE 8-86. TILT SENSOR HARNESS (RIGHT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922947	Ref	TILT SENSOR HARNESS (RIGHT)	E
3	1560011	1	Connector, Conduit	
4	4460911	1	Connector - 3 Position	
4	4460912	1	Lock, Wedge	
4	4460918	3	Pin, Male	
7	1560012	1	Nut, Conduit	
8	1320309	1	Clamp, Cable	
9	4460702	1	Terminal, Eyelet	
10	4240032	2	Tie-Strap (Not Shown)	
12	4460256	1	Terminal, Eyelet	
14	4461013	1	Connector - 6 Position	

FIGURE 8-87. TOWER BOOM ANGLE SENSOR HARNESS (LEFT)

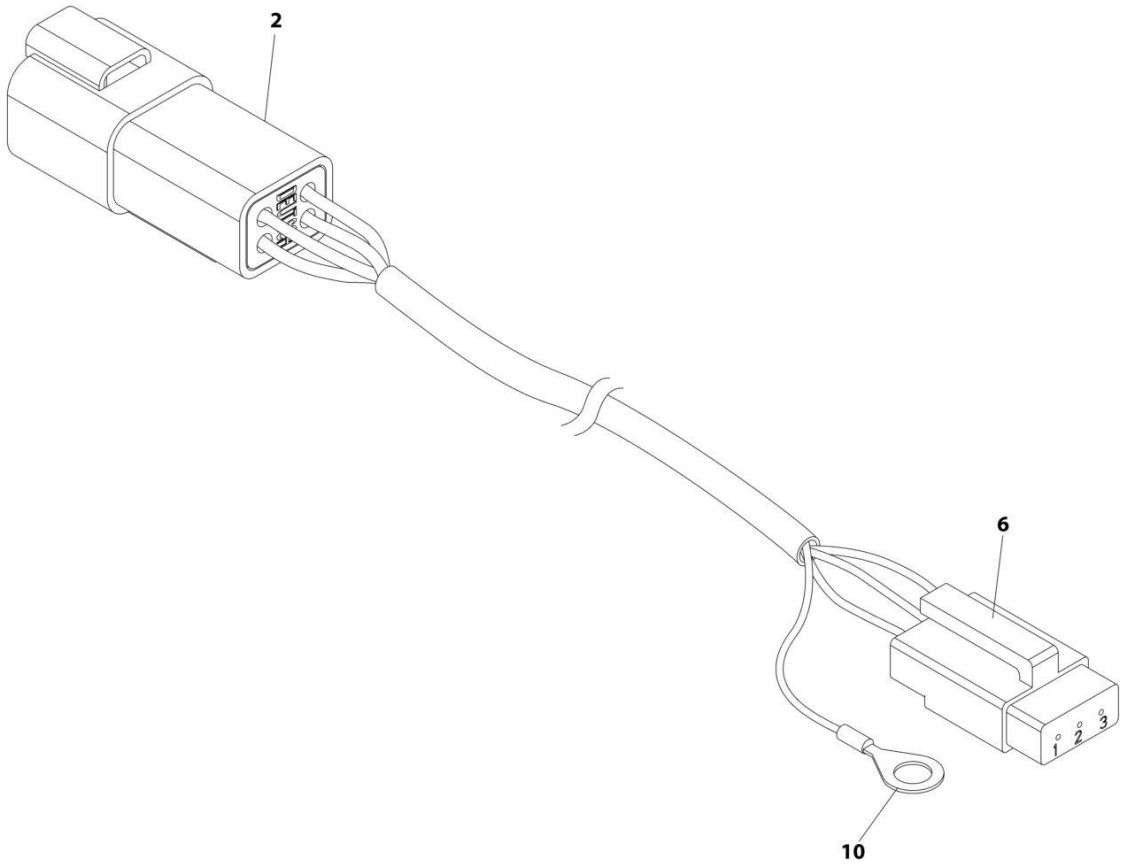


FIGURE 8-87. TOWER BOOM ANGLE SENSOR HARNESS (LEFT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922951	Ref	TOWER BOOM ANGLE SENSOR HARNESS (LEFT)	E
2	4460932	1	Connector - 4 Position	
2	4460943	4	Pin, Male (Gold)	
6	4460911	1	Connector - 3 Position	
6	4460918	3	Socket, Female	
6	4460912	1	Lock, Wedge - Position	
10	4460722	1	Terminal, Eyelet	

FIGURE 8-88. TOWER BOOM ANGLE SENSOR HARNESS (RIGHT)

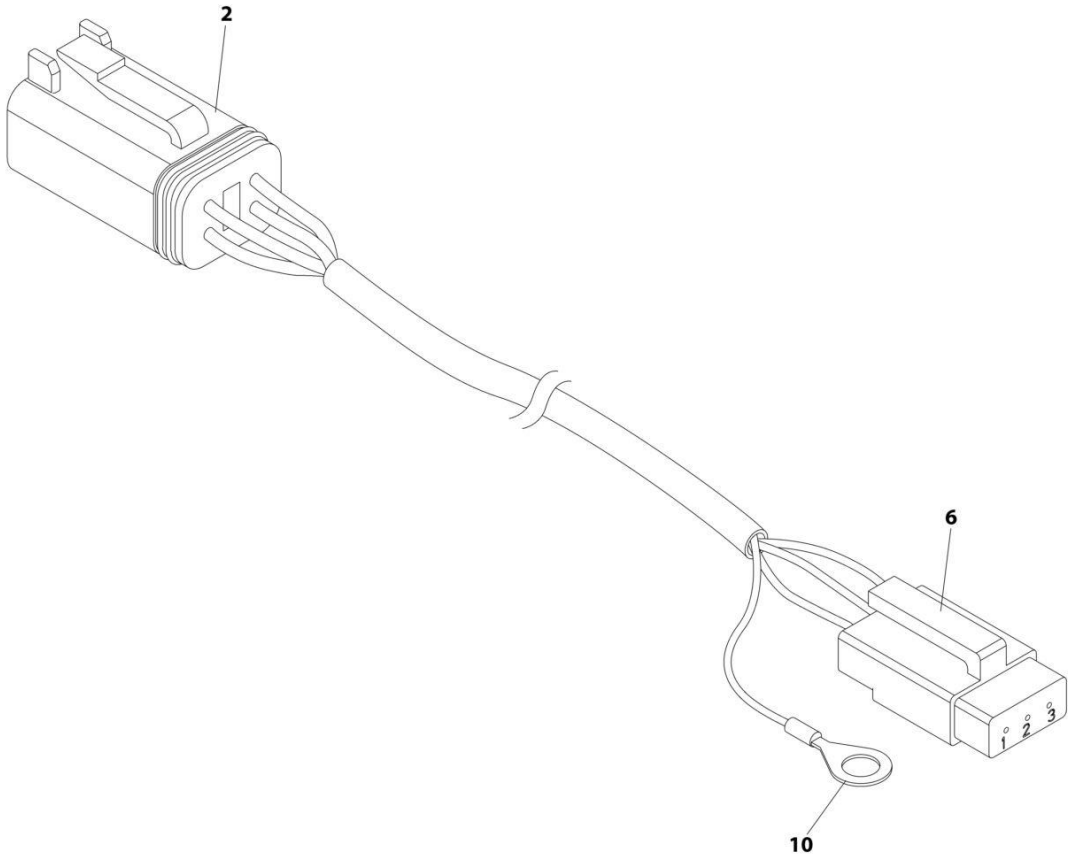


FIGURE 8-88. TOWER BOOM ANGLE SENSOR HARNESS (RIGHT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922950	Ref	TOWER BOOM ANGLE SENSOR HARNESS (RIGHT)	D
2	4460884	1	Connector - 4 Position	
2	4460944	4	Socket, Female (Gold)	
6	4460911	1	Connector - 3 Position	
6	4460918	3	Socket, Female	
6	4460912	1	Lock, Wedge - Position	
10	4460722	1	Terminal, Eyelet	

FIGURE 8-89. TOWER BOOM CONTROL CABLE HARNESS

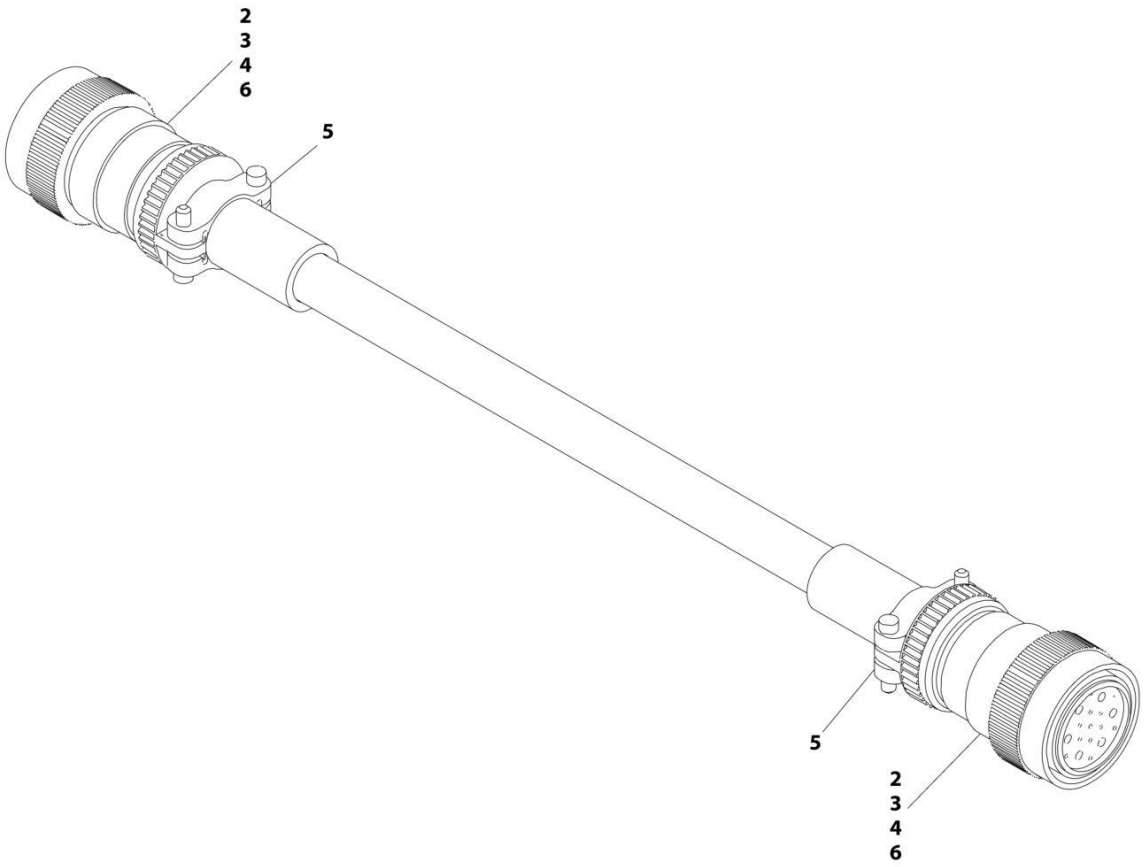


FIGURE 8-89. TOWER BOOM CONTROL CABLE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922956	Ref	TOWER BOOM CONTROL CABLE HARNESS	E
2	4460465	11	Socket, Female	
3	4460865	2	Connector - 19 Position	
4	4460509	4	Socket, Female	
5	4460473	2	Clamp	
6	4460466	4	Plug, Socket	

FIGURE 8-90. TOWER BOOM FLY TO GROUND CONTROL BOX HARNESS

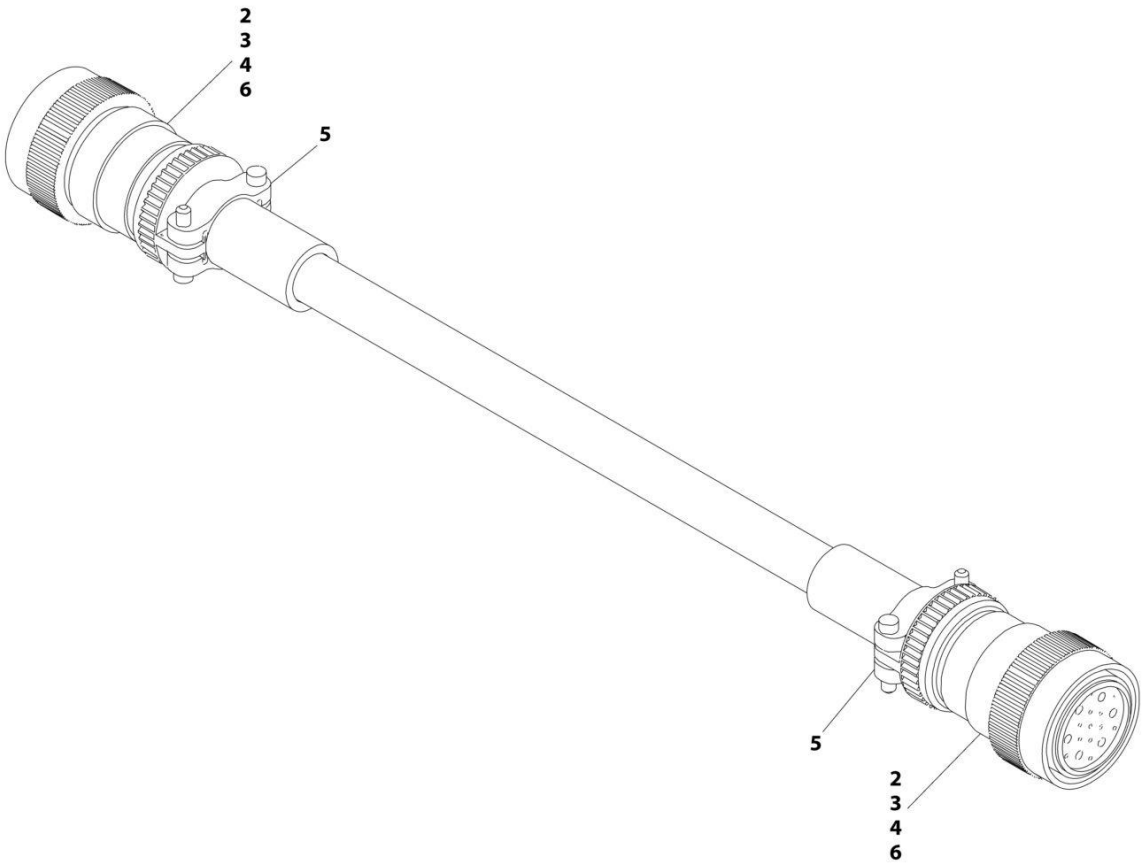


FIGURE 8-90. TOWER BOOM FLY TO GROUND CONTROL BOX HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922958	Ref	TOWER BOOM FLY TO GROUND CONTROL BOX HARNESS	D
2	4460465	22	Socket, Female	
3	4461003	2	Connector - 21 Position	
4	4460509	8	Socket, Female	
5	4460473	2	Clamp, Cable	
6	4460466	12	Seal, Plug	

FIGURE 8-91. TOWER BOOM FLY TO MAIN BOOM BASE HARNESS

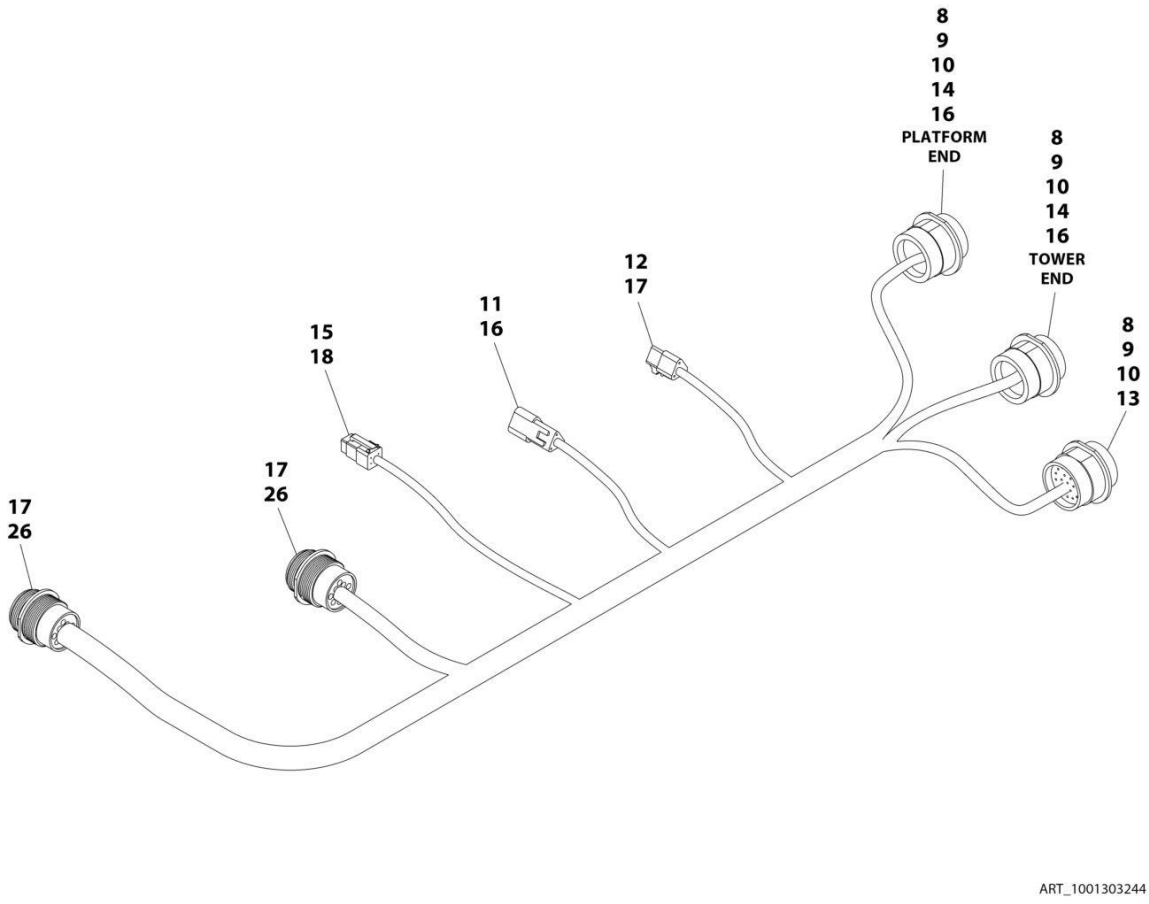


FIGURE 8-91. TOWER BOOM FLY TO MAIN BOOM BASE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303244	Ref	TOWER BOOM FLY TO MAIN BOOM BASE HARNESS	B
8	4460464	26	Pin	
9	4460466	15	Plug	
10	4460508	12	Pin	
11	4460536	1	Connector	
12	4460539	1	Connector	
13	4460613	1	Connector	
14	4460866	2	Connector	
15	4460918	4	Socket	
16	4460943	9	Pin	
17	4460944	11	Socket	
18	4461077	1	Plug	
26	1001301653	2	Connector	

FIGURE 8-92. TOWER BOOM LENGTH SENSORS HARNESS

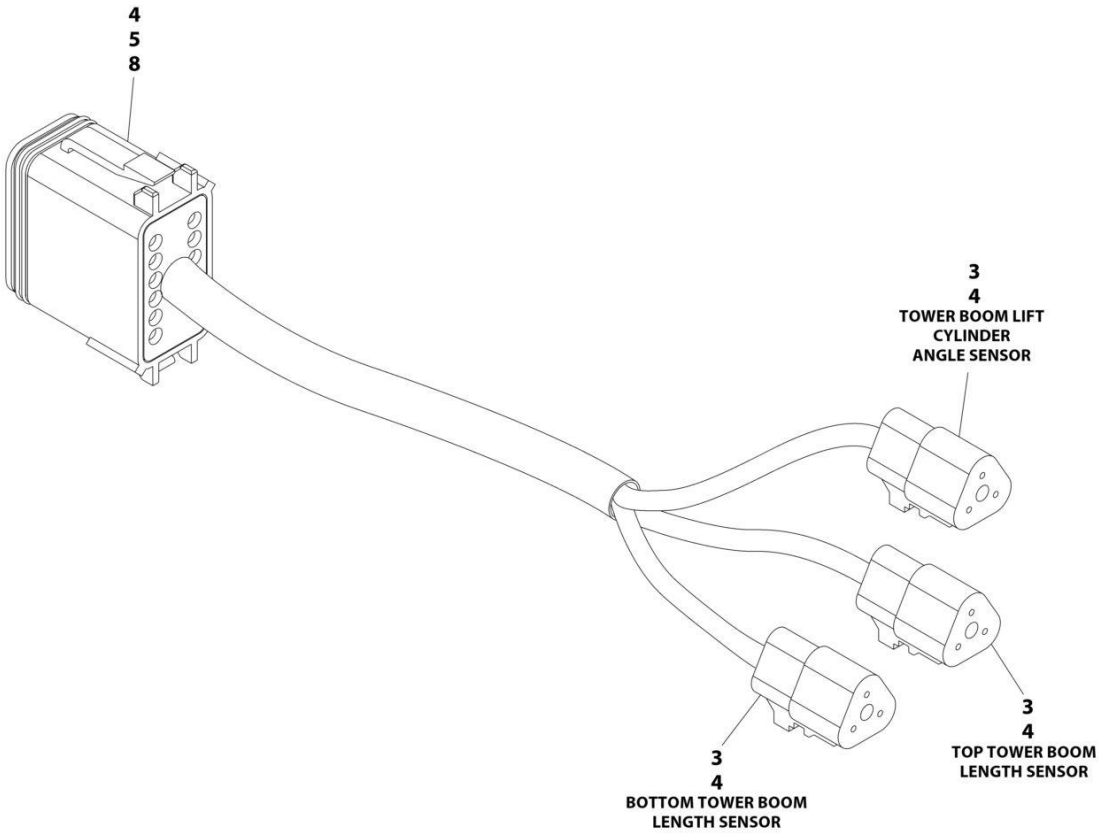


FIGURE 8-92. TOWER BOOM LENGTH SENSORS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922949	Ref	TOWER BOOM LENGTH SENSORS HARNESS	C
3	4460539	3	Connector	
4	4460944	23	Socket	
5	4460934	1	Connector	
8	4460466	1	Plug	

FIGURE 8-93. TOWER BOOM TRANSPORT LENGTH SWITCH HARNESS

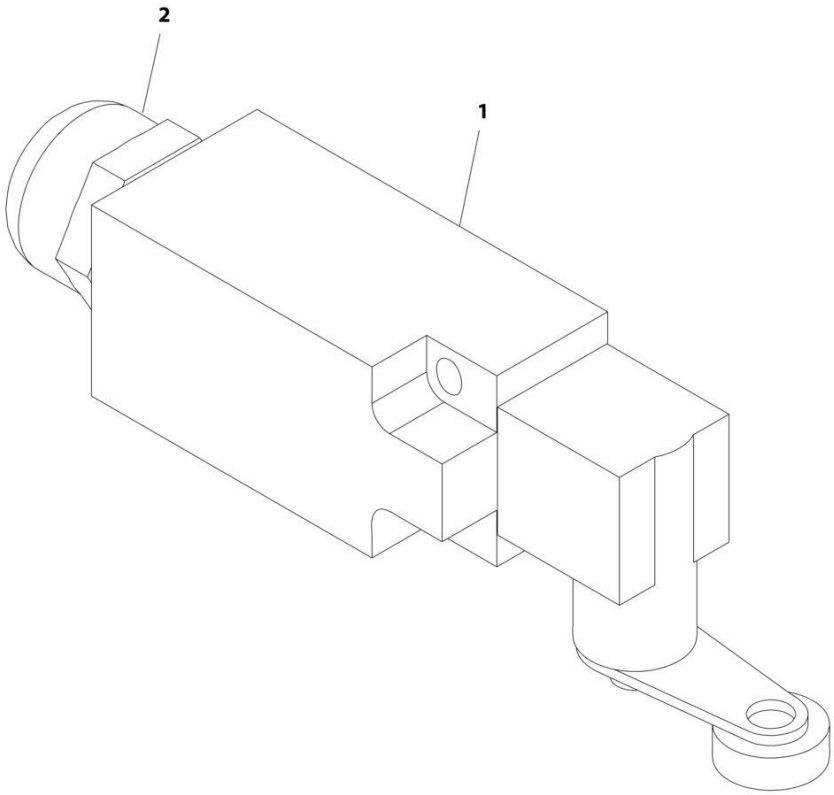
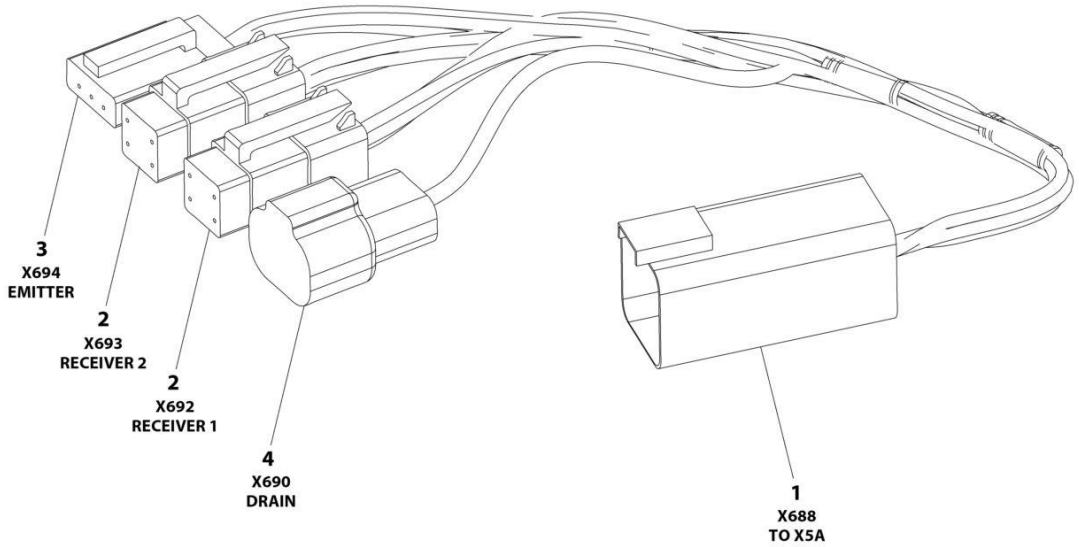


FIGURE 8-93. TOWER BOOM TRANSPORT LENGTH SWITCH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923169	Ref	TOWER BOOM TRANSPORT LENGTH SWITCH HARNESS	A
1	4360579	1	Switch, Limit	
2	4460968	1	Connector, Strain Relief	

FIGURE 8-94. SKYEYE INTERMEDIATE HARNESS



ART_1001237865

FIGURE 8-94. 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	

FIGURE 8-95. SKYEYE RECEIVER HARNESS

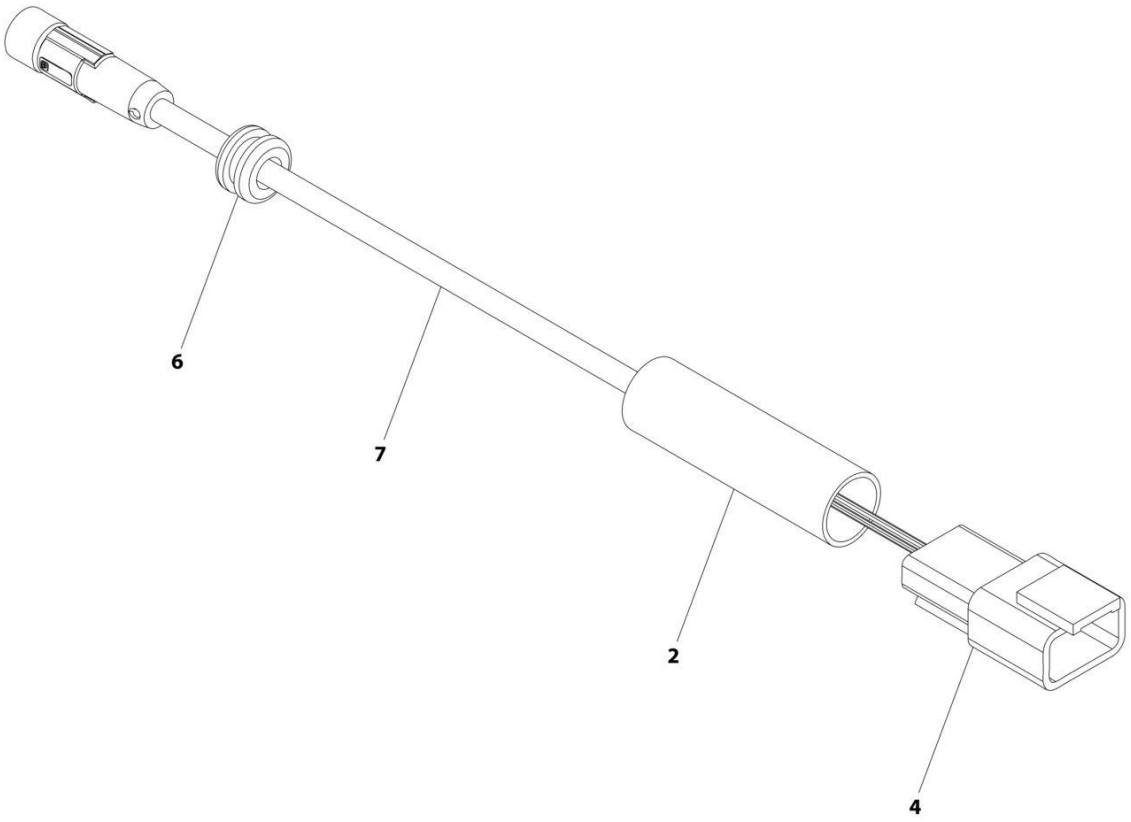


FIGURE 8-95. SKYEYE RECEIVER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237863	Ref	SKYEYE RECEIVER HARNESS	B
2	2820247	AR	Tubing, Heat Shrink	
4	1001097051	1	Connector - 4 Position	
4	1001119620	4	Pin, Male	
6	1001227996	1	Grommet	
7	1001258495	1	Cable, M8 Female Cordset	

FIGURE 8-96. SKYEYE EMITTER HARNESS

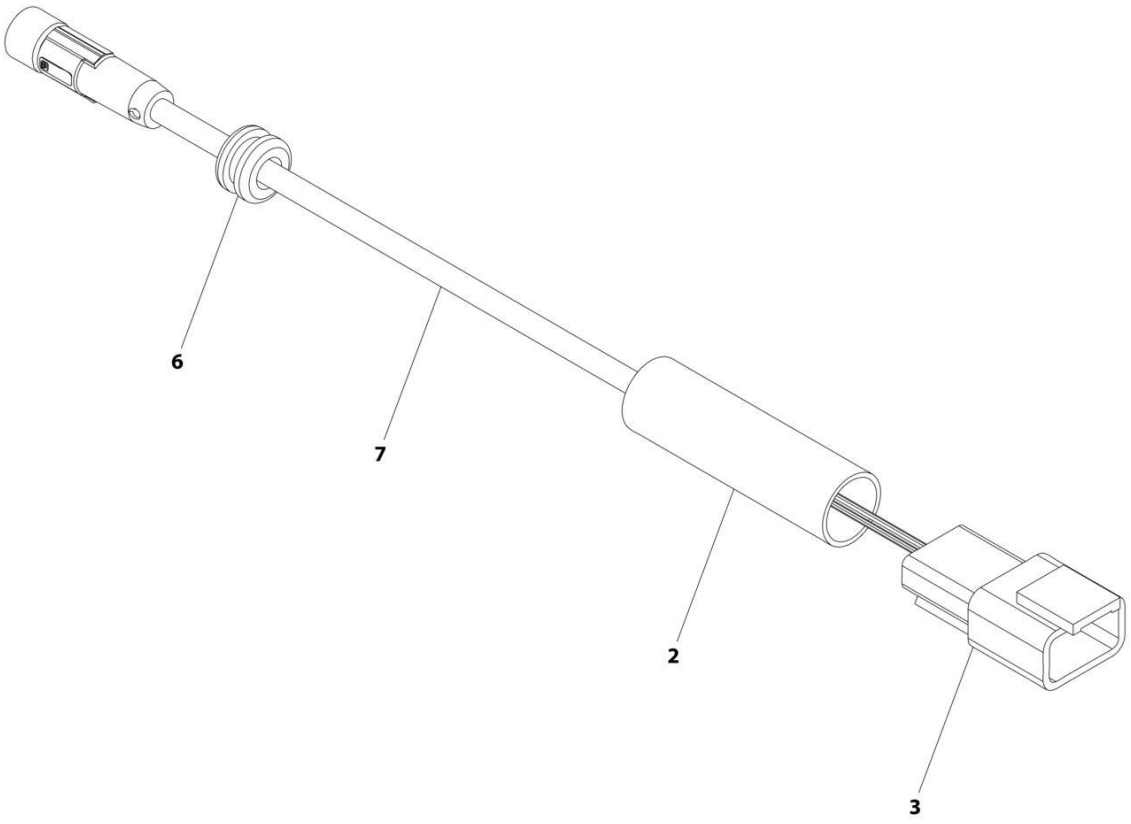


FIGURE 8-96. SKYEYE EMITTER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001237864	Ref	SKYEYE EMITTER HARNESS	B
2	2820247	AR	Tubing, Heat Shrink	
3	4460910	1	Connector - 3 Position	
3	1001119620	3	Pin, Male	
6	1001227996	1	Grommet	
7	1001258495	1	Cable, M8 Female Cordset	

FIGURE 8-97. SKYLINE HARNESS

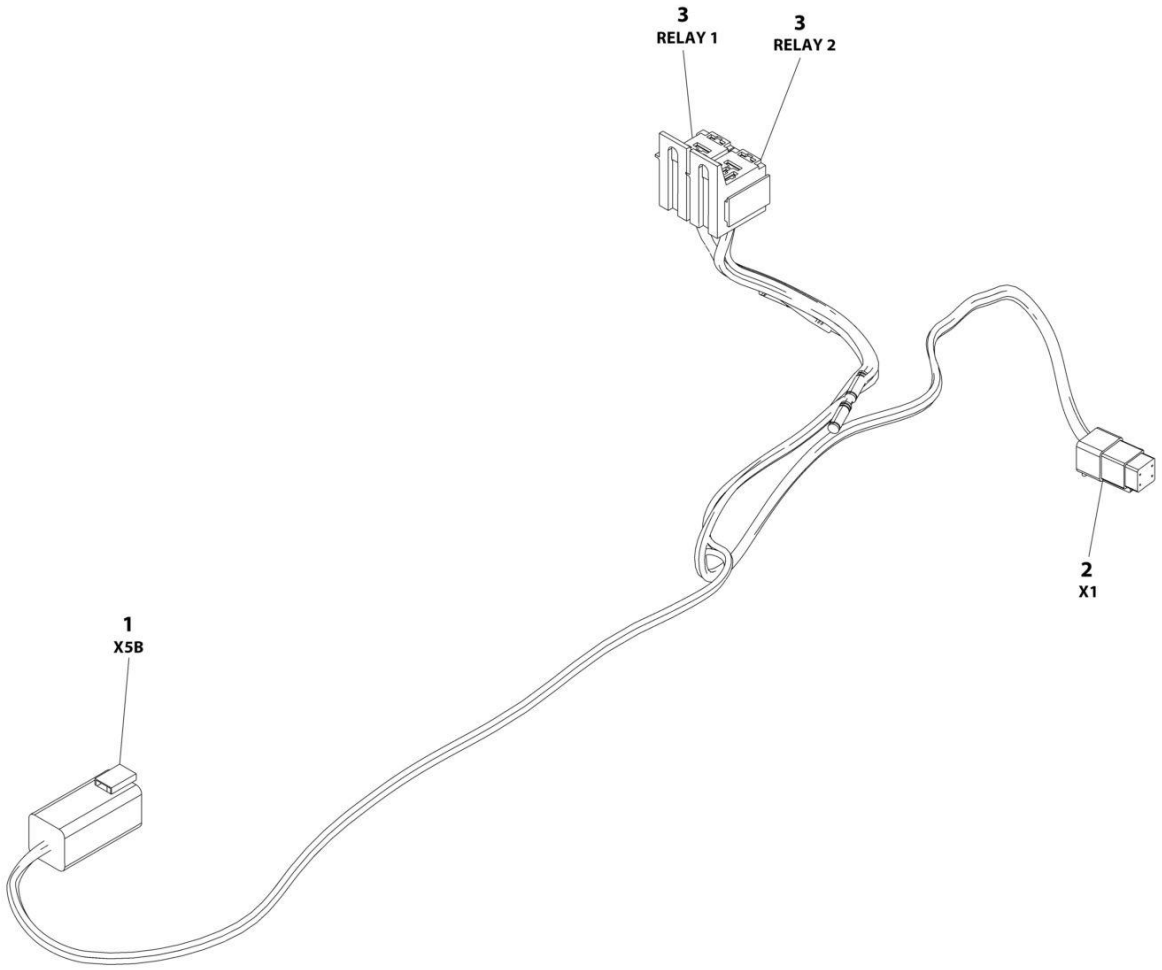


FIGURE 8-97. SKYLINE HARNESS

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 9-1. DECAL INSTALLATION - ANSI SPEC

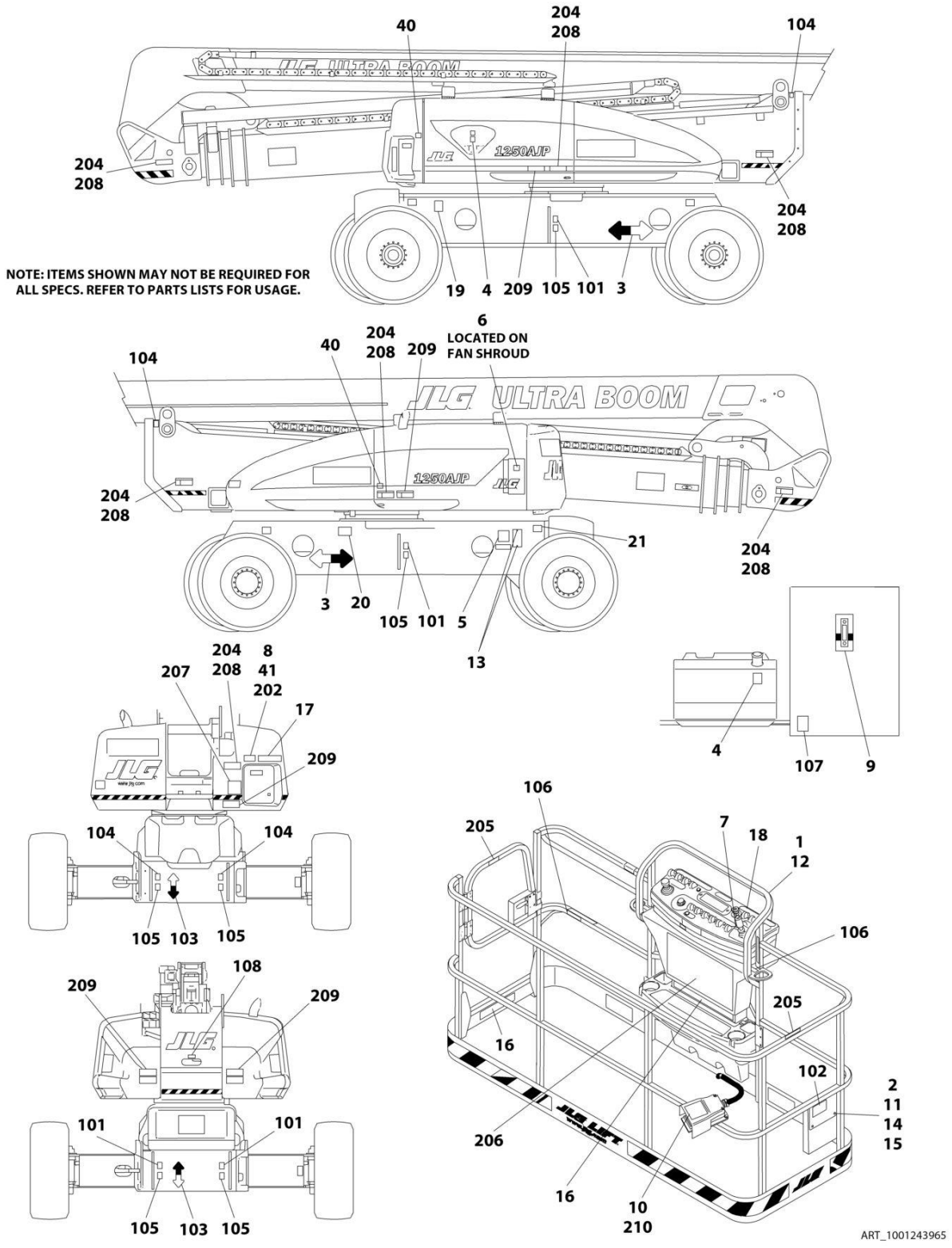

FIGURE 9-1. DECAL INSTALLATION - ANSI SPEC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001243965	Ref	DECAL INSTALLATION - ANSI SPEC	B
1	0100048	AR	Grease, Dielectric	
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1704972	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705351	1	Decal - Drive/Steer Instructions	
8	1705492	1	Decal - Tip Over Hazard	
9	1705511	1	Decal - Oil Level	
10	3252347	1	Decal - Footswitch	
11	3311405	4	Nut 1/4	
12	3520174	3	Plug	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253048	1	Decal - Capacity (Platform)	
17	1001253049	1	Decal - Capacity (Ground Control)	
18	1001122611	1	Decal - Stop	
19	1001131269	1	Decal - Patent	
20	1001223055	1	Decal - Yearly Inspection	
21	1001223453	1	Decal - Ices	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248547	1	Decal Kit (Not Shown - Includes Items 204-209)	
204	1703953	7	Decal - Warning/Crushing	
205	1702868	2	Decal - No Hands	
206	1001231315	1	Decal - Danger/Warning (Platform)	
207	1705336	1	Decal - Danger/Warning (Ground Control)	
208	1703804	5	Decal - Warning Crushing	
209	1703805	5	Decal - Danger/Electrocution	

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FIGURE 9-2. DECAL INSTALLATION - AUSTRALIAN SPEC

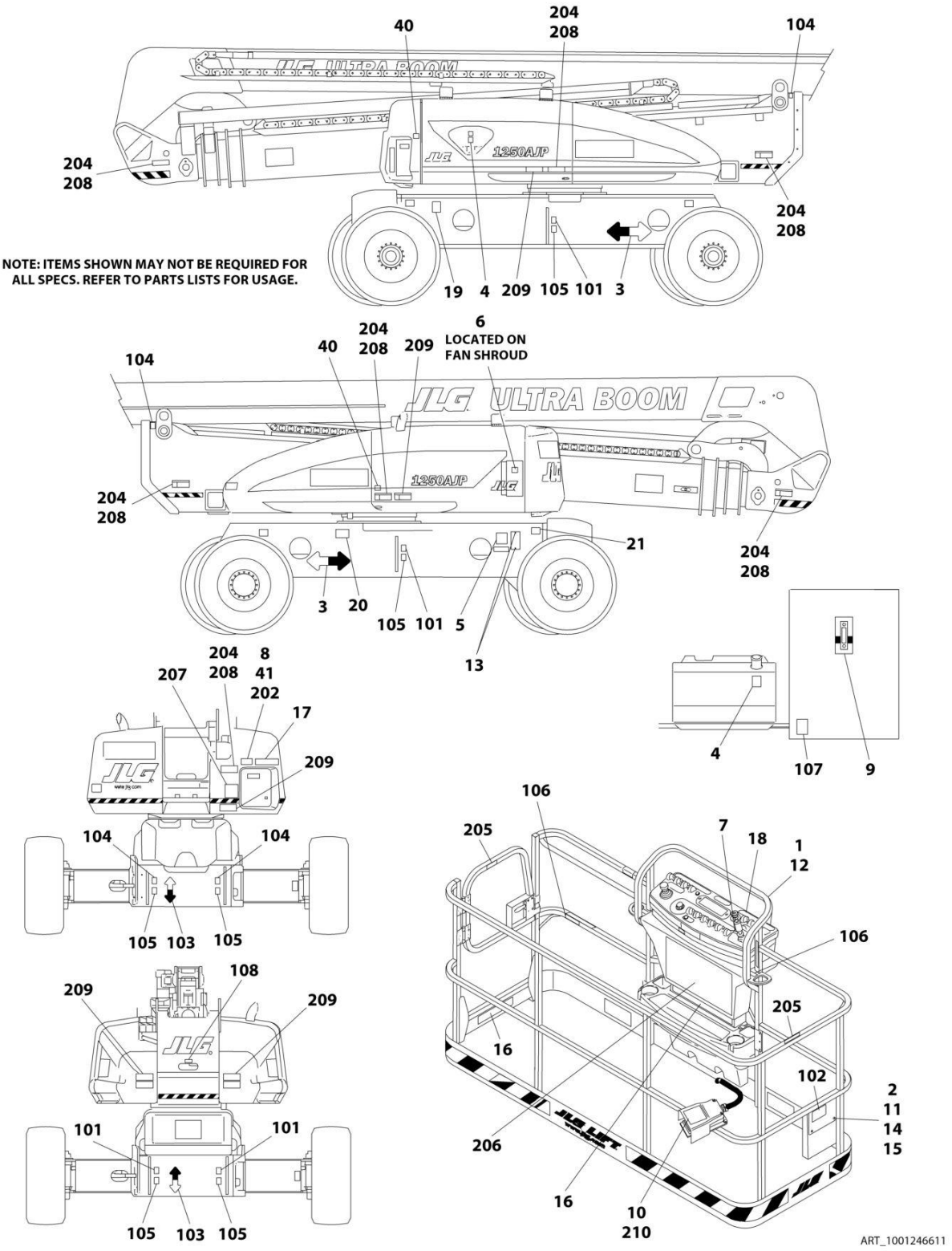

FIGURE 9-2. DECAL INSTALLATION - AUSTRALIAN SPEC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001246611	Ref	DECAL INSTALLATION - AUSTRALIAN SPEC	A
1	0100048	AR	Grease, Dielectric	
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706098	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
9	1705511	1	Decal - Oil Level	
10	1705828	1	Decal - Footswitch	
11	3311405	4	Nut 1/4	
12	3520174	3	Plug	
13	3820001	6	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1706770	1	Decal - Capacity (Platform)	
17	1705468	1	Decal - Capacity (Ground Control)	
18	1705174	1	Decal - Stop	
41	1001112551	1	Decal - Emergency Controls (Australian Spec)	
100	1001248540	1	Decal Master Kit (Not Shown - Includes Items 101-107)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	4	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248546	1	Decal Kit (Not Shown - Includes Items 206-209)	
206	1705921	1	Decal - Tipping/Electrical (Platform)	
207	1705822	1	Decal - Electrical/Safety (Ground Control)	
208	1701518	10	Decal - Warning Crushing	
209	1705961	5	Decal - Danger Electrocution	

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FIGURE 9-3. DECAL INSTALLATION - BRAZIL SPEC (PORTGUESE/ENGLISH)

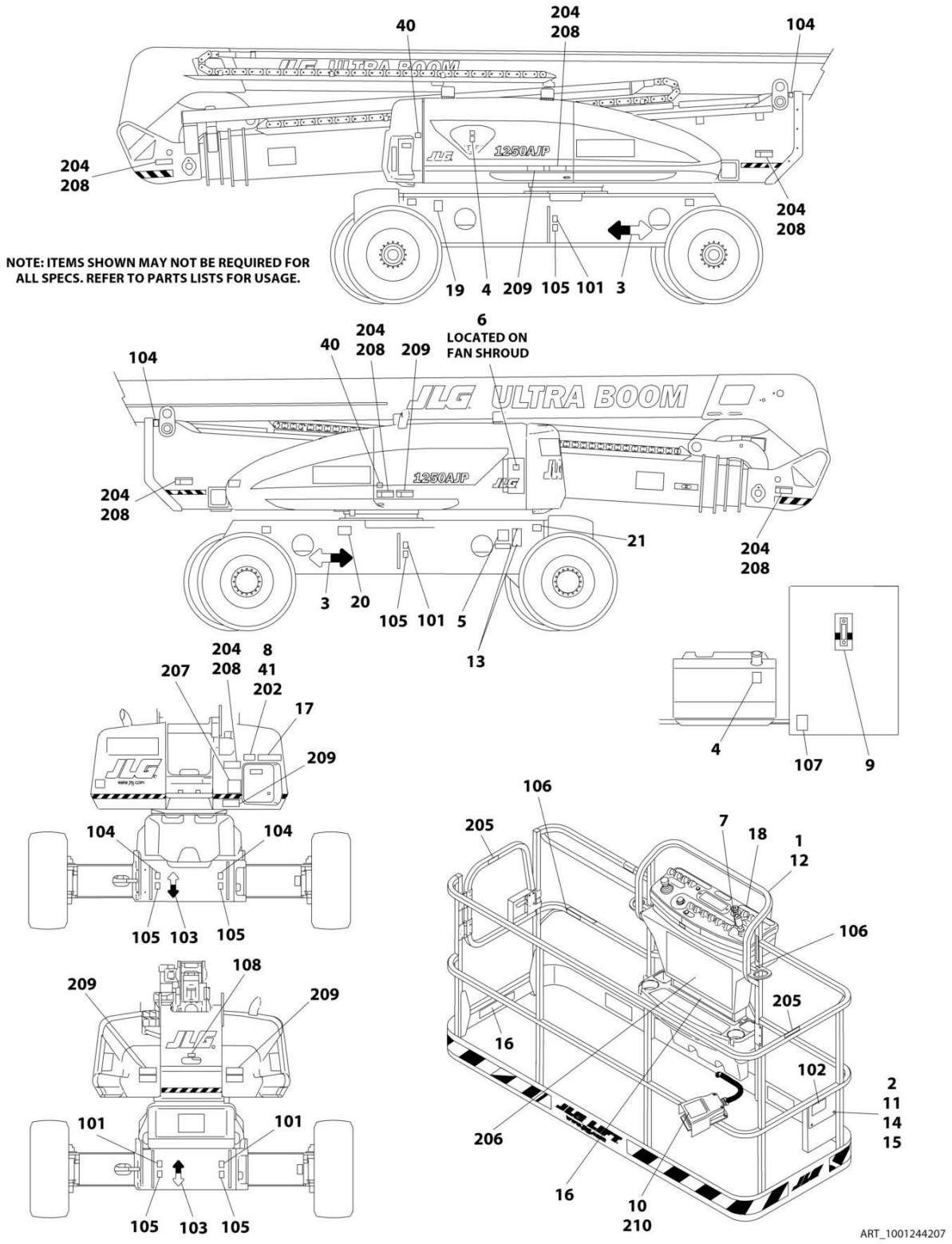

FIGURE 9-3. DECAL INSTALLATION - BRAZIL SPEC (PORTGUESE/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001244207	Ref	DECAL INSTALLATION - BRAZIL SPEC (PORTGUESE/ENGLISH)	B
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706059	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705905	1	Decal - Drive/Steer Instructions	
9	1705511	1	Decal - Oil Level	
11	3311405	4	Nut 1/4	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253057	1	Decal - Capacity (Platform)	
17	1001253058	1	Decal - Capacity (Ground Control)	
18	1001122611	1	Decal - Stop	
20	1001224052	1	Decal - Yearly Inspection	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248551	1	Decal Kit (Not Shown - Includes Items 202-210)	
202	1705906	1	Decal - Tip Over Hazard	
203	1705901	1	Decal - Inspection (Not Shown)	
204	1705903	7	Decal - Warning/Crushing	
205	1705967	2	Decal - No Hands	
206	1001231319	1	Decal - Danger/Warning (Platform)	
207	1705896	1	Decal - Danger/Warning (Ground Control)	
208	1705898	5	Decal - Warning Crushing	
209	1705897	5	Decal - Danger/Electrocution	
210	1705902	1	Decal - Footswitch	

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FIGURE 9-4. DECAL INSTALLATION - CE & UK CA SPEC

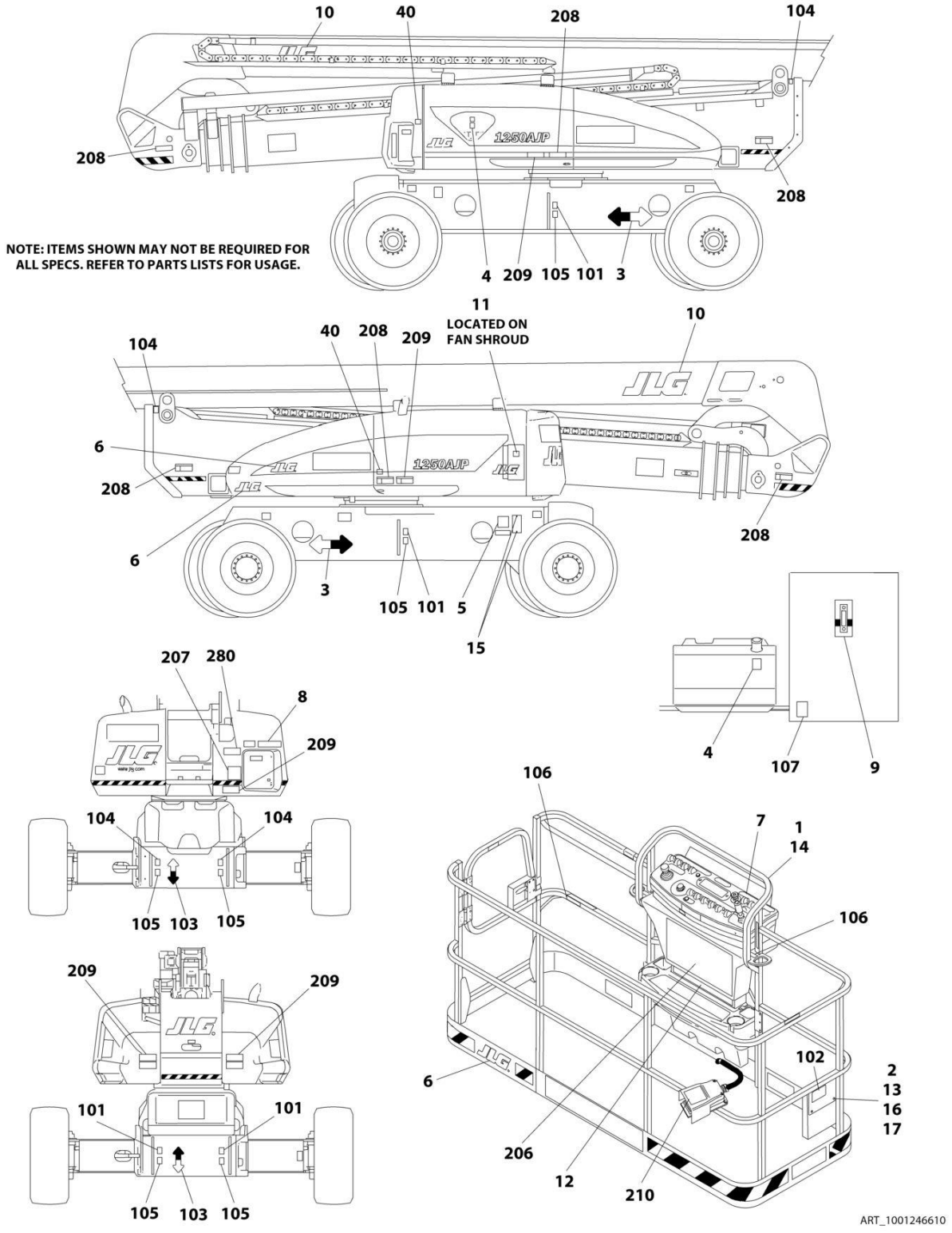

FIGURE 9-4. DECAL INSTALLATION - CE & UK CA SPEC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251268	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001246610	Ref	DECAL INSTALLATION - CE & UK CA SPEC	A
1	0100048	AR	Grease, Dielectric	
2	0641406	7	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1702773	3	Decal - JLG	
7	1705174	1	Decal - Stop	
8	1705468	1	Decal - Capacity (Ground Control)	
9	1705511	1	Decal - Oil Level	
10	1705864	2	Decal - JLG	
11	1706098	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
12	1706770	1	Decal - Capacity (Platform)	
13	3311405	4	Nut 1/4	
14	3520174	3	Plug	
15	3820001	6	Rivet	
16	4751400	7	Washer 1/4	
17	91403230	1	Box, Manual Storage	
100	1001248540	1	Decal Master Kit (Not Shown - Includes Items 101-107)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	4	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
200	1001248546	1	Decal Kit (Not Shown - Includes Items 206-210)	
206	1705921	1	Decal - Tipping/Electrical (Platform)	
207	1705822	1	Decal - Electrical/Safety (Ground Control)	
208	1701518	10	Decal - Warning Crushing	
209	1705961	5	Decal - Danger Electrocution	
210	1705828	1	Decal - Footswitch	

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FIGURE 9-5. DECAL INSTALLATION - CHINESE SPEC (CHINESE/ENGLISH)

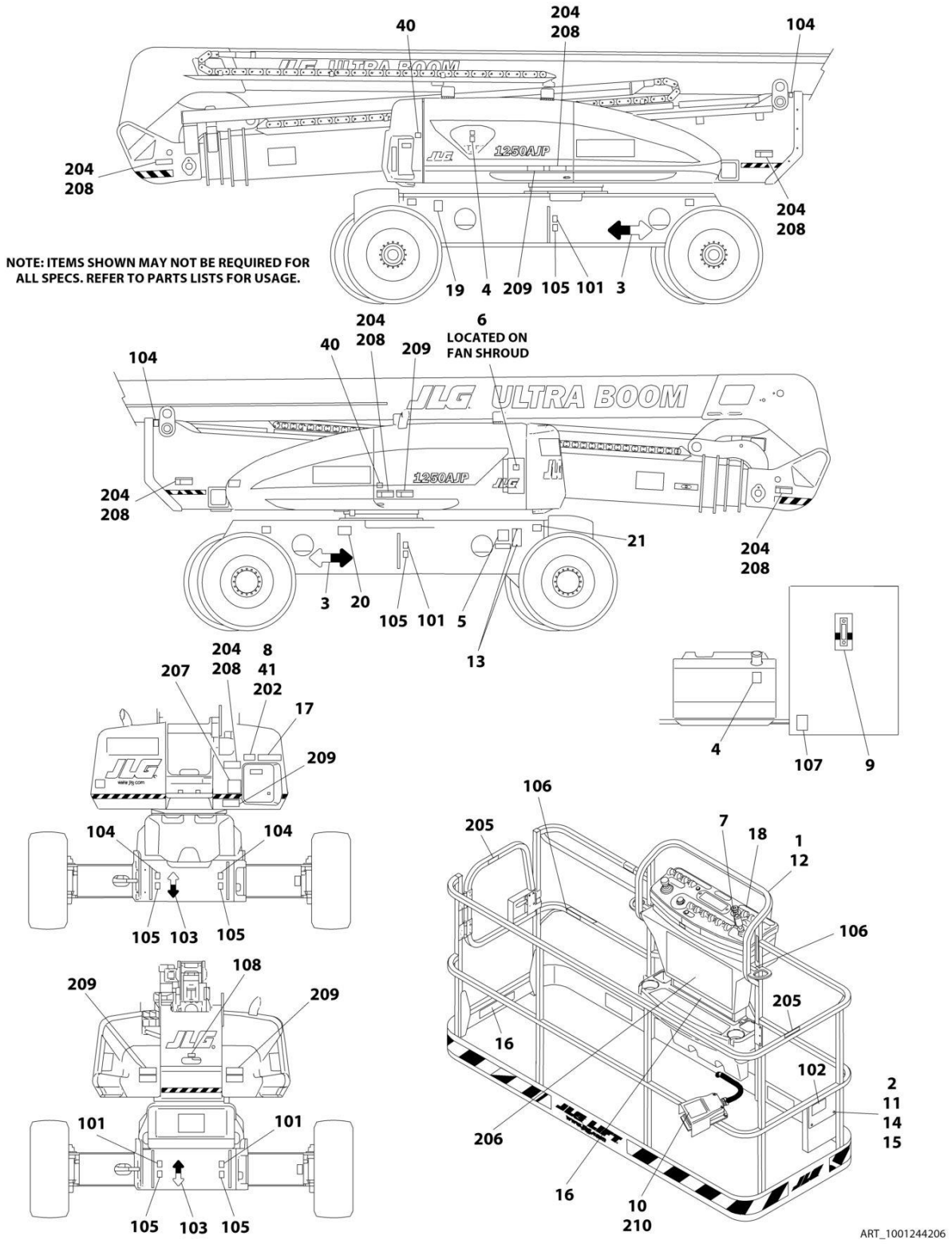

FIGURE 9-5. DECAL INSTALLATION - CHINESE SPEC (CHINESE/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001244206	Ref	DECAL INSTALLATION - CHINESE SPEC (CHINESE/ENGLISH)	B
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706060	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705430	1	Decal - Drive/Steer Instructions	
9	1705511	1	Decal - Oil Level	
11	3311405	4	Nut 1/4	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253054	2	Decal - Capacity (Platform)	
17	1001253056	1	Decal - Capacity (Ground Control)	
18	1001122611	1	Decal - Stop	
20	1001224050	1	Decal - Yearly Inspection	
40	1001244298	2	Decal - Wechat QR Code	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248553	1	Decal Kit (Not Shown - Includes Items 202-210)	
202	1001117035	1	Decal - Tip Over Hazard	
204	1703943	7	Decal - Warning/Crushing	
205	1001116846	2	Decal - No Hands	
206	1001231321	1	Decal - Danger/Warning (Platform)	
207	1001116849	2	Decal - Danger/Warning (Ground Control)	
208	1703949	5	Decal - Warning Crushing	
209	1001116851	5	Decal - Danger/Electrocution	
210	1703982	1	Decal - Footswitch	

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FIGURE 9-6. DECAL INSTALLATION - CSA SPEC (ENGLISH/FRENCH)

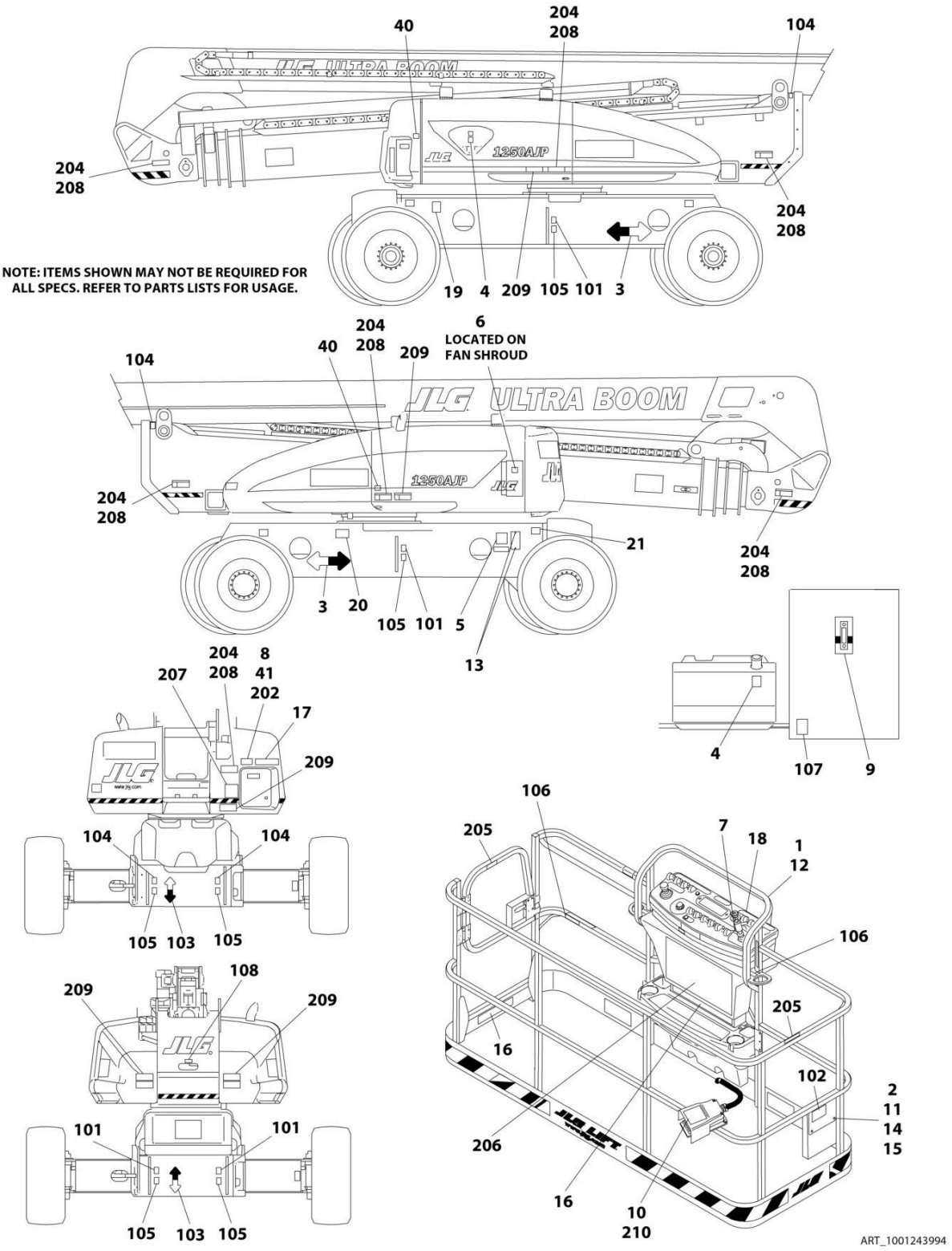

FIGURE 9-6. DECAL INSTALLATION - CSA SPEC (ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001243994	Ref	DECAL INSTALLATION - CSA SPEC (ENGLISH/FRENCH)	B
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706064	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705429	1	Decal - Drive/Steer Instructions	
9	1705511	1	Decal - Oil Level	
11	3311405	4	Nut 1/4	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253050	1	Decal - Capacity (Platform)	
17	1001253051	1	Decal - Capacity (Ground Control)	
18	1705174	1	Decal - Stop	
19	1001131269	1	Decal - Patent	
20	1001223971	1	Decal - Yearly Inspection	
21	1001223453	1	Decal - Ices	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248548	1	Decal Kit (Not Shown - Includes Items 202-210)	
202	1705505	1	Decal - Tip Over Hazard	
204	1703942	7	Decal - Warning/Crushing	
205	1704000	2	Decal - No Hands	
206	1001231316	1	Decal - Danger/Warning (Platform)	
207	1705347	1	Decal - Danger/Warning (Ground Control)	
208	1703948	5	Decal - Warning Crushing	
209	1703936	5	Decal - Danger/Electrocution	
210	1703984	1	Decal - Footswitch	

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FIGURE 9-7. DECAL INSTALLATION - JAPANESE SPEC (JAPANESE/ENGLISH)

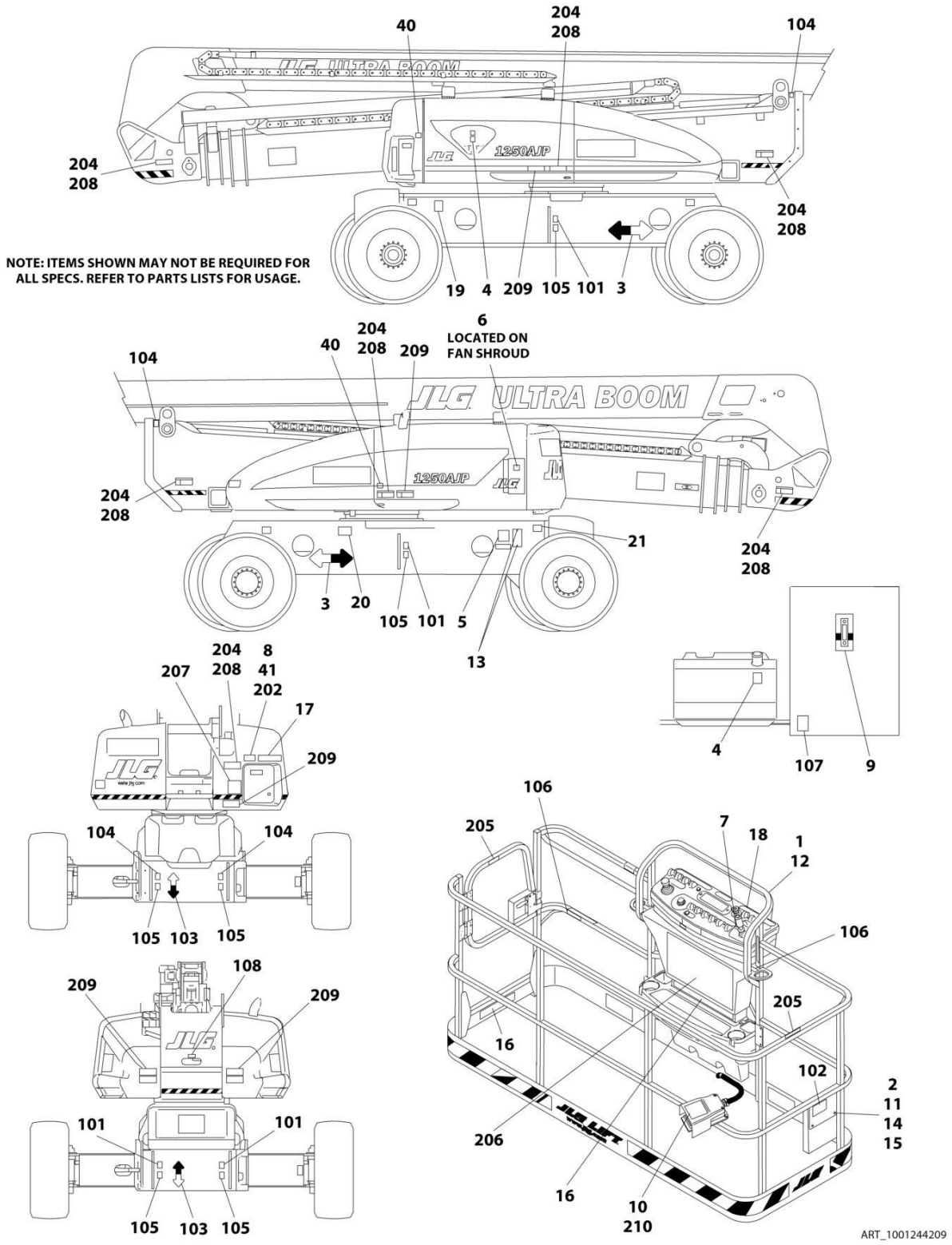

FIGURE 9-7. DECAL INSTALLATION - JAPANESE SPEC (JAPANESE/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001244209	Ref	DECAL INSTALLATION - JAPANESE SPEC (JAPANESE/ENGLISH)	B
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706062	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705426	1	Decal - Drive/Steer Instructions	
9	1705511	1	Decal - Oil Level	
11	3311405	4	Nut 1/4	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253061	1	Decal - Capacity (Platform)	
17	1001253062	1	Decal - Capacity (Ground Control)	
18	1001122611	1	Decal - Stop	
20	1001224053	1	Decal - Yearly Inspection	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248552	1	Decal Kit (Not Shown - Includes Items 202-210)	
202	1705493	1	Decal - Tip Over Hazard	
204	1703944	7	Decal - Warning/Crushing	
206	1001231320	1	Decal - Danger/Warning (Platform)	
207	1705344	1	Decal - Danger/Warning (Ground Control)	
208	1703950	5	Decal - Warning Crushing	
209	1703938	5	Decal - Danger/Electrocution	
210	1703980	1	Decal - Footswitch	

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FIGURE 9-8. DECAL INSTALLATION - KOREAN SPEC (KOREAN/ENGLISH)

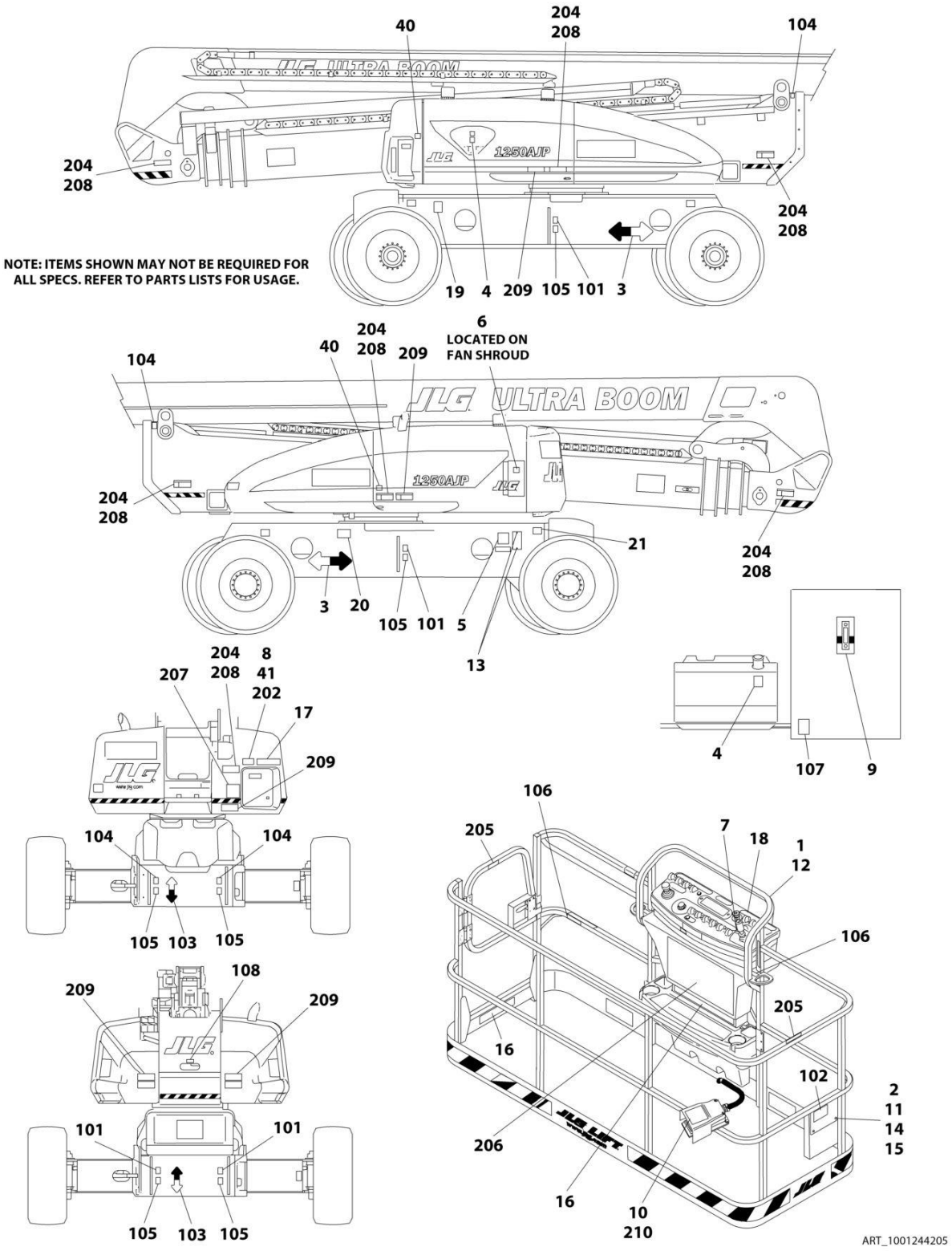

FIGURE 9-8. DECAL INSTALLATION - KOREAN SPEC (KOREAN/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001244205	Ref	DECAL INSTALLATION - KOREAN SPEC (KOREAN/ENGLISH)	B
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706061	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705427	1	Decal - Drive/Steer Instructions	
9	1705511	1	Decal - Oil Level	
11	3311405	4	Nut 1/4	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253052	1	Decal - Capacity (Platform)	
17	1001253053	1	Decal - Capacity (Ground Control)	
18	1001122611	1	Decal - Stop	
20	1001224048	1	Decal - Yearly Inspection	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248549	1	Decal Kit (Not Shown - Includes Items 202-210)	
202	1705503	AR	Decal - Tip Over Hazard	
204	1703945	7	Decal - Warning/Crushing	
205	1705969	2	Decal - No Hands	
206	1001231317	1	Decal - Danger/Warning (Platform)	
207	1705345	1	Decal - Danger/Warning (Ground Control)	
208	1703951	5	Decal - Warning Crushing	
209	1703939	5	Decal - Danger/Electrocution	
210	1703981	1	Decal - Footswitch	

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FIGURE 9-9. DECAL INSTALLATION - LATIN AMERICAN SPEC (SPANISH/ENGLISH)

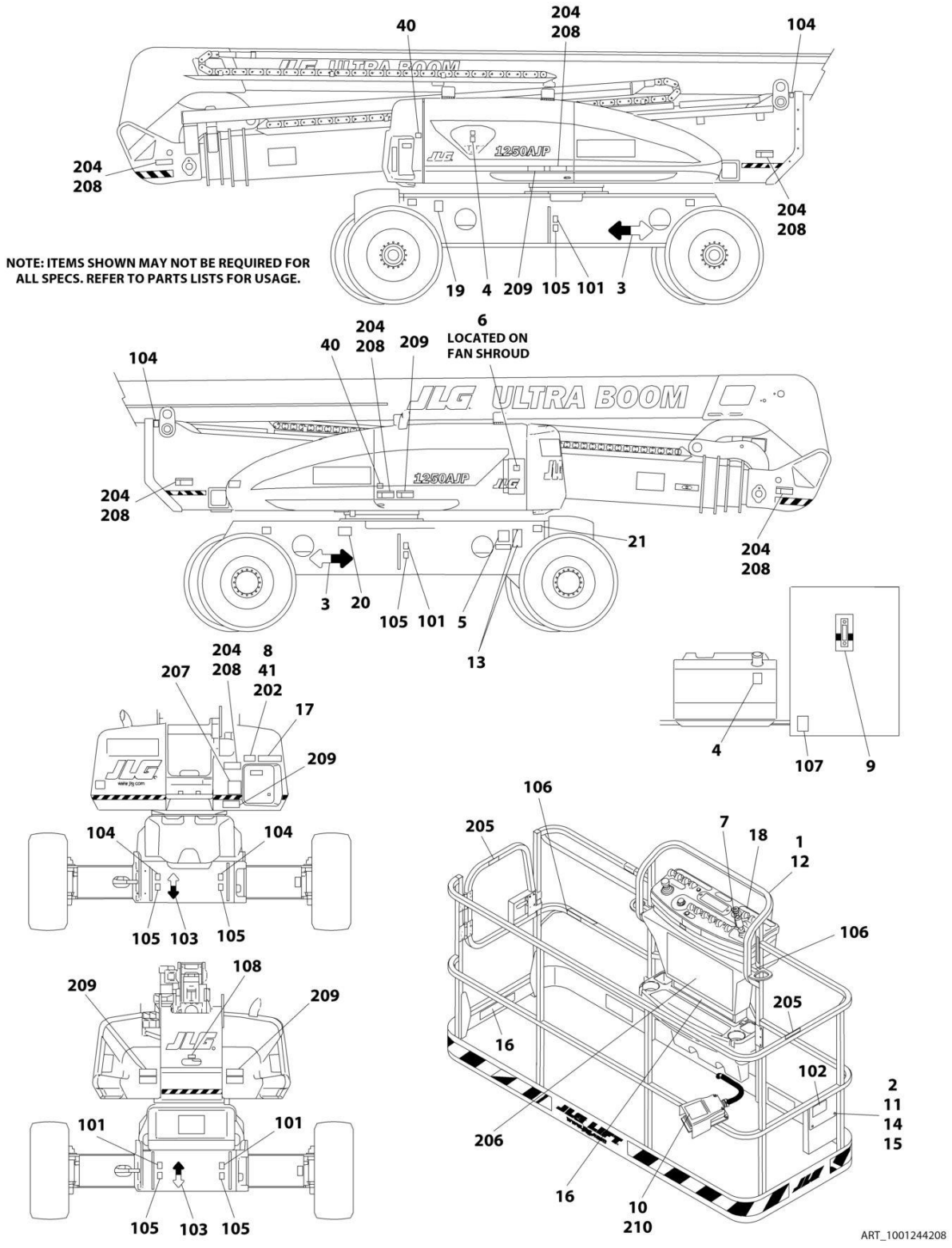

FIGURE 9-9. DECAL INSTALLATION - LATIN AMERICAN SPEC (SPANISH/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION - REFERENCE CHART	C
	1001244208	Ref	DECAL INSTALLATION - LATIN AMERICAN SPEC (SPANISH/ENGLISH)	B
2	0641406	4	Bolt 1/4 x 3/4	
3	1701501	4	Decal - Arrow	
4	1701505	2	Decal - Fuel	
5	See Note	1	Decal - Bar Code (Note: Not Available For Purchase)	
6	1706061	1	Decal - Warning Explosion/Fire (Not Shown - Located on Engine Air Filter Housing)	
7	1705910	1	Decal - Drive/Steer Instructions	
9	1705511	1	Decal - Oil Level	
11	3311405	4	Nut 1/4	
13	3820001	2	Rivet	
14	4751400	4	Washer 1/4	
15	91403230	1	Box, Manual Storage	
16	1001253059	1	Decal - Capacity (Platform)	
17	1001253060	1	Decal - Capacity (Ground Control)	
18	1001122611	1	Decal - Stop	
20	1001224049	1	Decal - Yearly Inspection	
100	1001248539	1	Decal Master Kit (Not Shown - Includes Items 101-108)	
101	1701499	4	Decal - No Lift	
102	1701509	1	Decal - Manual	
103	1701529	2	Decal - Arrow	
104	1703811	8	Decal - Tie Down/Lift	
105	1703814	6	Decal - Tie Down	
106	1704277	4	Decal - Attach Lanyard Here	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	3251243	1	Nameplate - 120V-60Hz	
200	1001248550	1	Decal Kit (Not Shown - Includes Items 202-210)	
202	1705915	AR	Decal - Tip Over Hazard	
204	1703941	7	Decal - Warning/Crushing	
205	1704001	2	Decal - No Hands	
206	1001231318	1	Decal - Danger/Warning (Platform)	
207	1705917	1	Decal - Danger/Warning (Ground Control)	
208	1703947	5	Decal - Warning Crushing	
209	1703935	5	Decal - Danger/Electrocution	
210	1703983	1	Decal - Footswitch	

FIGURE 9-10. DECAL INSTALLATION - OPTIONS

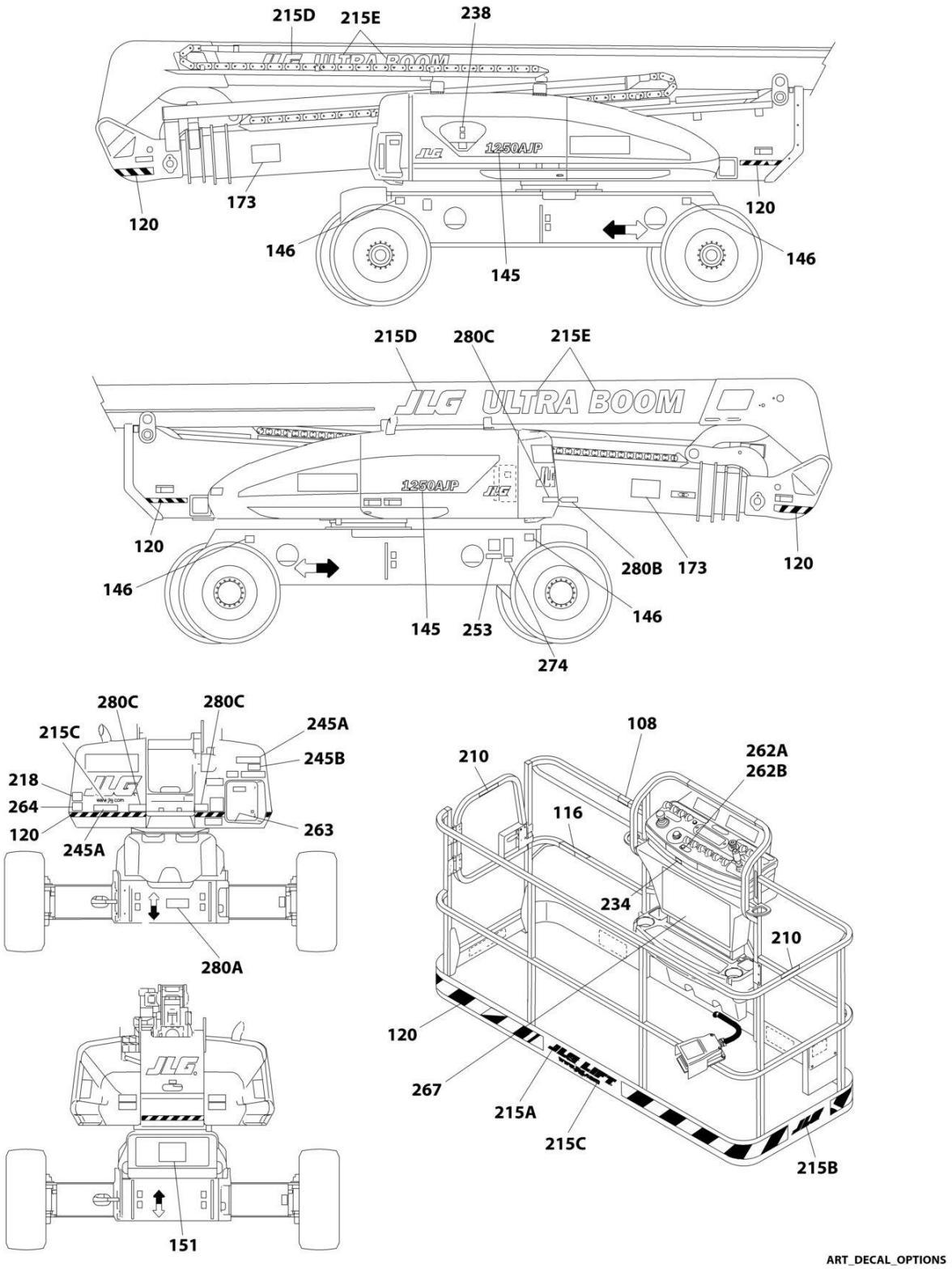

FIGURE 9-10. DECAL INSTALLATION - OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001251267	Ref	DECAL INSTALLATION – REFERENCE CHART (ALL SPECS EXCEPT CE & UK CA SPECS)	C
	1001251268	Ref	DECAL INSTALLATION – REFERENCE CHART (CE & UK CA SPECS)	C
	1001261250	Ref	DECAL INSTALLATION - OPTIONS	B
108	1001231801	1	Decal - Warning (Proposition 65) (ANSI Spec Only)	
116	1703175	2	Decal - Lanyard Attach (GM Spec Only)	
120	4420051	29 ft /8.8m	Decal - Warning Stripes	
145	1001268241	2	Decal - Model 1250AJP	
146	1703483	4	Decal - Tire Load	
151	1001284690	1	Decal - Lift Diagram	
173	1703959	2	Decal - Quikstik	
210	1702868	2	Decal - No Hands (ANSI and ANSI Export Specs)	
210	1704000	2	Decal - No Hands (CSA Specs) (French/English)	
210	1704001	2	Decal - No Hands (ANSI Export Specs) (Spanish/English)	
210	1705969	2	Decal - No Hands (ANSI Export Specs) (Korean/English)	
210	1705967	2	Decal - No Hands (ANSI Export Specs) (English/Portuguese)	
215	0274730	Ref	Decal - JLG Logo	
215A	1702774	1	Decal - JLG Lift	
215B	1702773	1	Decal - JLG	
215C	1704885	1	Decal - www.jlg.com	
215D	1705864	2	Decal - JLG	
215E	1001267315	1	Decal - Ultra Boom	
218	3251813	1	Decal - USA (ANSI, ANSI Export and CSA Specs)	
234	1001094055	1	Decal - Troubleshooting	
238	1001125387	1	Decal - Fuel Specification (Machines with Deutz TCD2.9L4 Engine Only) (ANSI and CSA Specs)	
238	1001139654	1	Decal - Fuel Specification (Machines with Deutz TCD2.9L4 Engine, Deutz TCD2.9L4 (Stage V Pre-Buy) Engine and Deutz TCD2.9L4 (Stage V) Engine Only) (ANSI Export, CE and Japanese Specs)	
245	1001120995	Ref	Decal - ClearSky Telematics Installation	
245A	1001116208	2	Decal - ClearSky	
245B	1001120989	1	Decal - Radio Frequency Device	
245	1001294863	Ref	Smart Fleet ClearSky Decal Installation	
245A	1001120989	1	Decal - Radio Frequency	
245B	1001294815	1	Decal - ClearSky	
253	1001143852	1	Decal - Emissions Compliance (ANSI Export, Australian, CE & UK CA (LRC) Specs)	
262A	1001141300	1	Decal - SkyGuard Override	
262B	1001141302	1	Decal - SkyGuard/Soft Touch Override	
263	1001197408	1	Decal - MSSO	
264	8007508	1	Decal - Sound Power Level (104dB) (Deutz TD2011 Engines)	
264	1705515	1	Decal - Sound Power Level (109dB) (Deutz TD2011 Engines)	
264	1001191526	1	Decal - Sound Power Level (110dB) (Deutz TCD2.9L4 Engines, Deutz TCD2.9L4 (Stage V Pre-Buy) Engines and Deutz TCD2.9L4 (Stage V) Engines)	
267	1001197511	Ref	Decal - Quick Reference (Dutch) (Lomax Rentals)	
267	1001197513	Ref	Decal - Quick Reference (Danish) (Lomax Rentals)	
267	1001180696	Ref	Decal - Quick Reference (English) (Lomax Rentals)	
267	1001197510	Ref	Decal - Quick Reference (French) (Lomax Rentals)	

SECTION 9 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
267	1001197512	Ref	Decal - Quick Reference (German) (Lomax Rentals)	
267	1001197519	Ref	Decal - Quick Reference (Norwegian) (Lomax Rentals)	
267	1001197515	Ref	Decal - Quick Reference (Spanish) (Lomax Rentals)	
267	1001197514	Ref	Decal - Quick Reference (Swedish) (Lomax Rentals)	
274	1001214029	1	Decal Installation - EAC (Russian/CIS Specs)	
274	1001173703	1	Decal - EAC (Russian/CIS Specs)	
280	1001221278	Ref	Decal Installation - Boom Transport Position	
280A	1001220512	1	Decal - Lower Boom	
280B	1001220510	2	Decal - Warning Arrow	
280C	1001220511	2	Decal - Warning Stripe	

FIGURE 9-11. SKYWELDER DECAL INSTALLATION - 50HZ

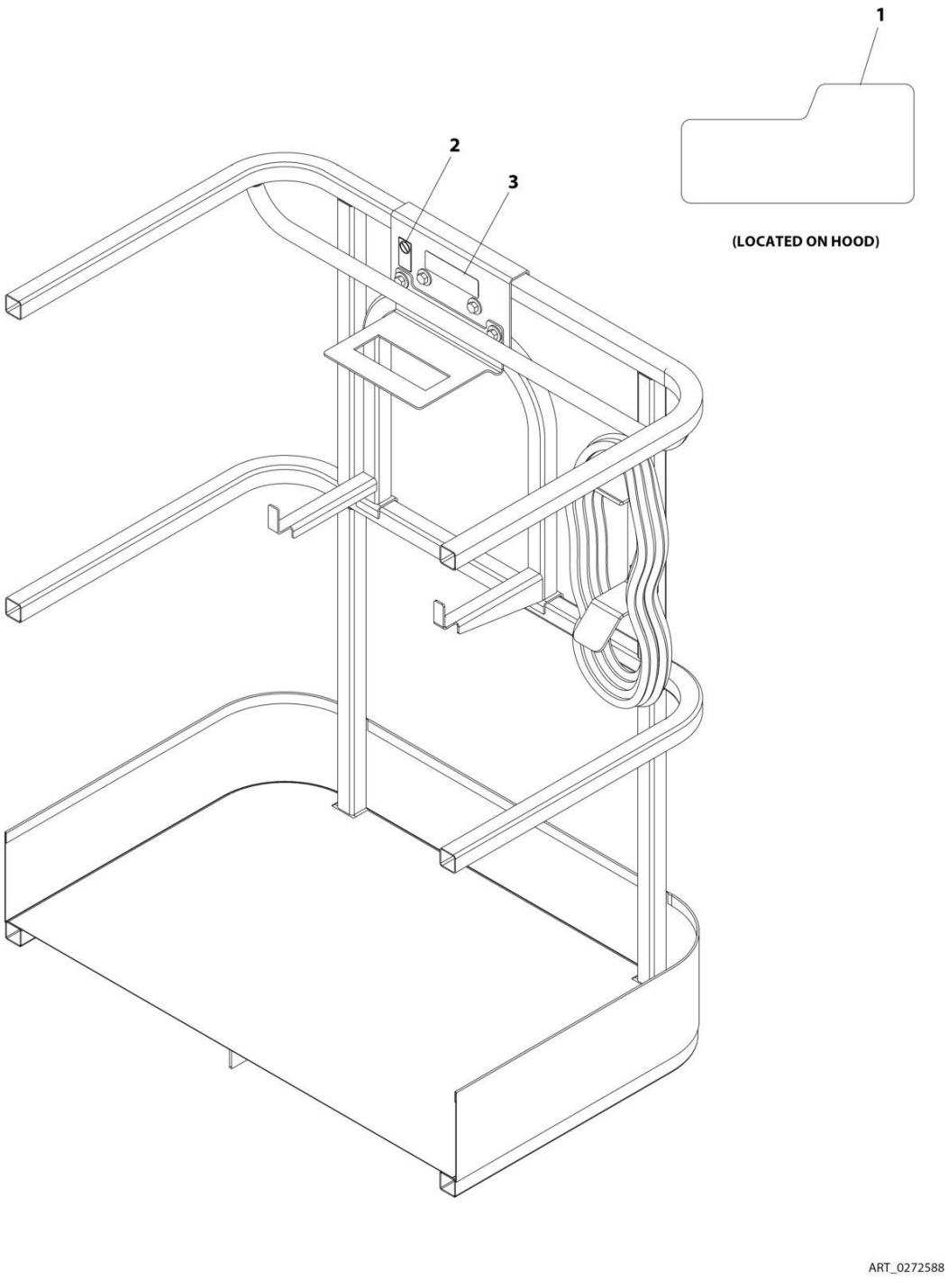

FIGURE 9-11. SKYWELDER DECAL INSTALLATION - 50HZ

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272588	Ref	SKYWELDER DECAL INSTALLATION - 50Hz	B
1	1705355	2	Decal - SkyWelder	
2	1705305	1	Decal - Weld Lead	
3	1001228988	1	Decal - Weight	

FIGURE 9-12. SKYWELDER DECAL INSTALLATION - 60HZ

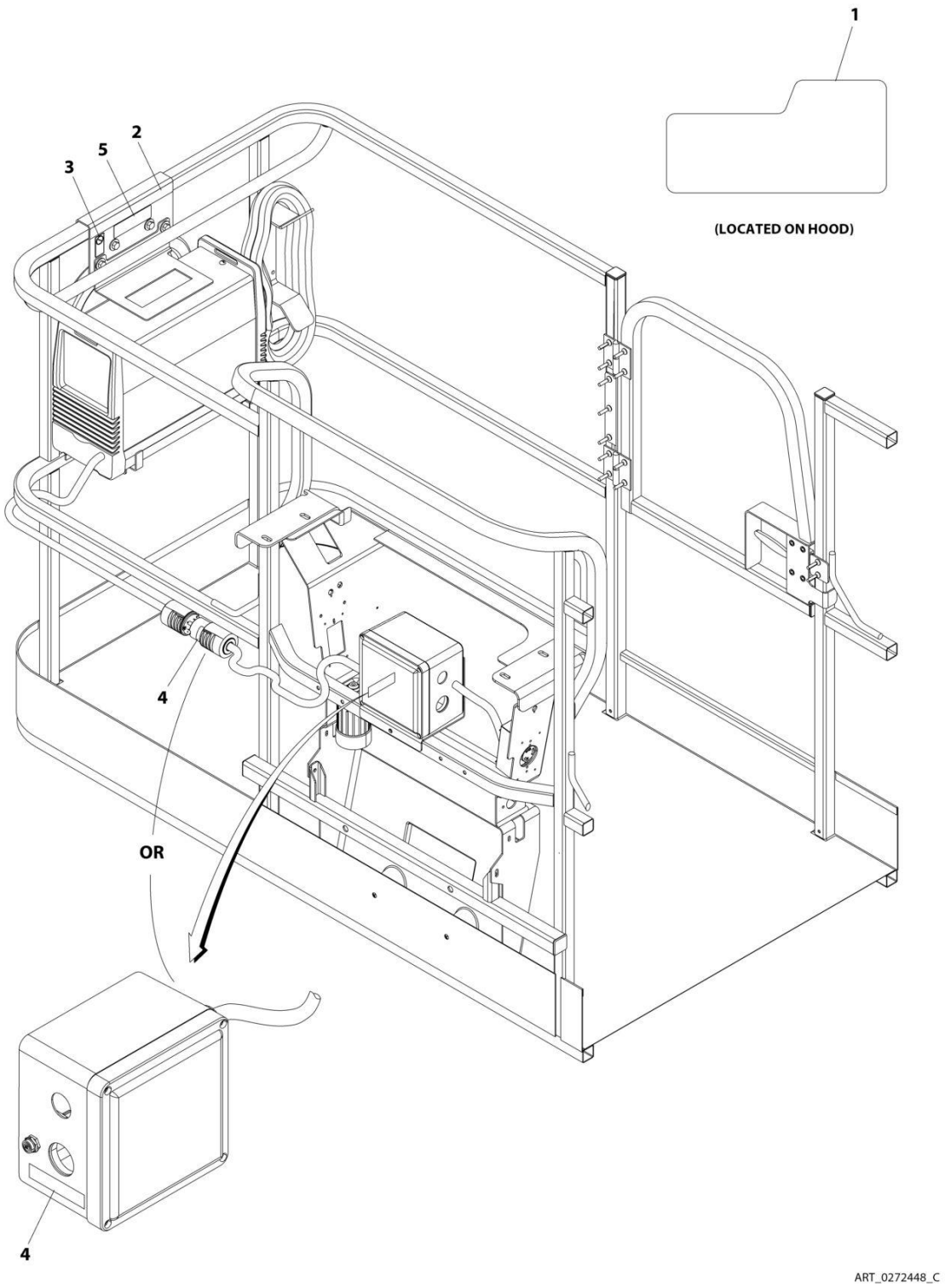

FIGURE 9-12. SKYWELDER DECAL INSTALLATION - 60HZ

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272448	Ref	SKYWELDER DECAL INSTALLATION - 60Hz	C
1	1705355	2	Decal - SkyWelder	
2	1702868	1	Decal - No Hands	
3	1705305	1	Decal - Weld Lead	
4	1705375	1	Decal - 240V - 3 Phase - 60Hz	
5	1001228988	1	Decal - Weight	

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 10-1. RECOMMENDED SERVICE PARTS

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 fields. 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.	
	7024444	1	Breather, Hydraulic (Tanks)	
	4360542	1	Breaker, Circuit (2500w Generator)	
	70001431	1	Breaker, Circuit (Plasma Cutter)	
	4360070	1	Breaker, Circuit 15Amp (4000w & 7500w Generators)	
	7024485	1	Breaker, Circuit 30Amp (7500w 50Hz Generators)	
	70006095	1	Breaker, Circuit 30Amp (7500w 60Hz Generators)	
	1001159118	1	Breaker, GFCI 30Amp (AC Box 240v)	
	1001181045	1	Breaker, Circuit - 30mA/16Amp (Breaker Box Kit 16Amp 2500w & 4000w Generators)	
	1001181046	1	Breaker, Circuit - 30mA/16Amp (Breaker Box Kit 10Amp 2500w Generator)	
	7018991	1	Coil (Steer Valve)	
	7012944	1	Coil (Traction Valve & Platform Valve)	
	7024890	1	Coil (Turntable Valves)	
	70007231	1	Coil (Main Valve)	
	7027207	1	Coil (Main Valve)	
	70007228	1	Coil (Main Valve)	
	7012943	1	Coil (Main Valve)	
	7024571	1	Coil (Platform Valve)	
	7026029	1	Contactor, Rotary Circuit With Harness (Rotary Coupling & Collector Ring)	
	7019680	1	Control, Box (2500w Generator)	
	1001138566	1	Control, Box (4000w Generator)	
	0861538	1	Control, Box (7500w 60Hz Generator)	
	0861572	1	Control, Box (7500w 50Hz Generator)	
	1001275628	1	Controller, Drive/Steer	
	1001275629	1	Controller, Lift/Swing	
	4360407	1	Controller, Speed (Potentiometer) (Platform Console Box)	
	3990001	2	Diode - 3 Amp (Ground Control Harness)	
	70002097	12	Element, Pressure Filter (Control Valve Installation - Platform)	
	2120219	12	Element, High Pressure Filter	
	70002231	12	Element, Pressure Filter	
	2120168	12	Element, Hydraulic Oil Filter	
		Ref	Engine - Deutz TD2011	
	1001202281	12	Filter, Water/Fuel Separator	
	7016328	12	Filter, Fuel	
	7016331	12	Filter, Oil	
	1600443	Ref	Module, EMR2 Controller (ECU) (Note: Not available to order. Please contact JLG Parts Center)	
	3740067	1	Relay	
	3740080	1	Relay	
		Ref	Engine - Deutz TCD2.9L4	
	70024190	12	Element, Air Filter	
	1001225430	12	Filter, Fuel Primary	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225431	12	Filter, Fuel Secondary	
	7016331	12	Filter, Oil	
	70023592	2	Fuse, 20A	
	70023593	2	Fuse, 30A	
	70025210	Ref	Module, ECU (Note: Not available to order. Please contact JLG Parts Center)	
	1001117308	1	Relay	
	70005648	1	Relay	
		Ref	Engine - Deutz TCD2.9L4 Stage V	
	70024190	12	Element, Air Filter	
	1001225430	12	Filter, Fuel Primary	
	1001225431	12	Filter, Fuel Secondary	
	7016331	12	Filter, Oil	
	70023592	2	Fuse, 20A	
	70023593	2	Fuse, 30A	
	70025210	Ref	Module, ECU (Note: Not available to order. Please contact JLG Parts Center)	
	1001117308	1	Relay	
	1001196634	2	Fuse, 2A (Breather Heater)	
	8229249	2	Fuse, 3A (USB Charger & Platform Console Box Harness)	
	2400064	2	Fuse, 5A (Clearsky Ready Harness)	
	8229242	2	Fuse, 5A (Engine Harness & Ground Control Box Harness)	
	80983191	2	Fuse, 10A (Engine Harness)	
	2400065	2	Fuse, 30A (Chassis Power Distribution Harness & Ground Control Box Harness)	
	2860030	1	Key, Replacement	
	2940074	1	Latch, Platform	
	1001247468	1	Loadcell (Platform Support)	
	1001142683	1	Module, Beacon Control (Red & Blue Beacons)	
	1001227960	1	Module, B.L.A.M.	
	1001277210	1	Module, Chassis **(Prior to SN 0300298203, Except SN 0300287801 through 0300287807)**	
	1001112758	1	Module, Chassis **(SN 0300298203 to Present, SN 0300287801 through 0300287807)**	
	1001281100	1	Module, Ground Control	
	1600345	1	Module, Platform Control	
	3740067	1	Relay (Battery & Aux Pump)	
	3740049	1	Relay (Ground Control Box)	
	3740080	1	Relay (2500w Generator & Chassis Power Distribution Harness)	
	70006553	1	Relay (4000w Generator)	
	1001186431	1	Relay (SkyGuard Bar Options)	
	3740143	1	Relay (Relay Harness)	
	3740086	1	Relay (SkyLine Options)	
	1001147479	1	Switch, Digital Angle Sensor (Boom Sensors & Switches)	
	1001228225	1	Sensor, Emitter (SkyEye)	
	4360578	1	Sensor, Limit (Axle)	
	4360057	1	Sensor, Limit (Soft Touch)	
	4360579	1	Sensor, Limit (Tower Boom Transport Length Switch Harness)	
	4360548	1	Sensor, Plunger (Boom Sensors & Switches)	
	70000803	1	Sensor, Pressure Switch (Traction Valve)	
	1001253593	1	Sensor, Pressure Transducer (Boom & Cylinder Install)	
	7026031	1	Sensor, Proximity (Rotary Coupling & Collector Ring)	

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232667	1	Sensor, Proximity (SkyLine)	
	1001311034	1	Sensor, Proximity (SkyLine)	
	4000008	1	Sensor, Proximity Assembly (Boom Sensors & Switches)	
	1001228224	1	Sensor, Receiver (SkyEye)	
	4360505	1	Sensor, Rotary Angle (Steer & Boom Sensors & Switches)	
	1001137673	1	Sensor, SkyGuard Bar	
	7027738	1	Sensor, Thermostatic (Main Valve)	
	1001219601	1	Sensor, Tilt Dual Axis CAN (Ground Control Box Assembly)	
	1001225346	1	Switch, Battery Disconnect	
	1001117172	1	Switch, Foot	
	4360469	1	Switch, Key	
	4360274	1	Switch, Pushbutton Gray (Ground Control Box)	
	4360387	1	Switch, Pushbutton Yellow (Console Box, Soft Touch & Ground control Box)	
	4360475	1	Switch, Push-Pull Emergency Stop	
	70001432	1	Switch, Rocker (Plasma Cutter)	
	4360328	1	Switch, Toggle (Ground Control Assembly & Tower Lift Switch)	
	1001155045	1	Switch, Toggle (Platform Console Box)	
	1001159256	1	Switch, Toggle (Platform Console Box)	
	1001161709	1	Switch, Toggle (Platform Console Box)	
	1001161710	1	Switch, Toggle (Platform Console Box)	
	4360336	1	Switch, Toggle (Generators)	

SECTION 11 - SPECIAL OPTIONS

SECTION 11 - SPECIAL OPTIONS

FIGURE 11-1. SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: This 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.	
		Ref	MISCELLANEOUS SPECIAL OPTIONS/ACCESSORIES/KITS	
	1001108504	Ref	Additional Transport Tie Down (ANSI Specs)	
	1340067	Ref	Air Cleaner Pre-Cleaner	
	0273464	Ref	Airline Installation, 1/2 in	
	1001202697	Ref	Air Intake Shut-off Valve (Deutz TCD2.9L4 Engines)	
	1001288636	Ref	Axle Lockout Cylinder Kit (Replacement for 1001228019)	
	1001241275	Ref	Axle Wear Pad Kit	
	1001298013	Ref	Axle Hose Service Kit	
	1001298014	Ref	Axle Hose Service Kit	
	0271803	Ref	Bellows, Cylinder (Fixed Axle)	
	0271804	Ref	Bellows, Cylinder (Oscillating Axle)	
	0273471	Ref	Bellows, Cylinder (Boom)	
	1001306146	Ref	Boom Angle Sensor Kit	
	0273513	Ref	Boom Wipers Installation	
	1001233047	Ref	Breather Heater (Deutz TCD2’9L4 Engines)	
		Ref	ClearSky (Telematics) Installations (Dealer Installed)	
	1001242192	Ref	ClearSky (Telematics) Access Control Installation Kit (ANSI, ANSI Export and CSA Specs)	
	1001243183	Ref	ClearSky (Telematics) Add-on Kit (ANSI, ANSI Export and CSA Specs)	
	1001243184	Ref	ClearSky (Telematics) Add-on Kit (CE & UK CA Specs)	
	1001276923	Ref	ClearSky (Telematics) Add-on Kit (Contact JLG for Approved Countries)	
	1001119938	Ref	ClearSky Telematics (ANSI Spec)	
	1001246142	Ref	ClearSky Telematics (Australian Spec)	
	1001119946	Ref	ClearSky Telematics (CSA Spec)	
	1001293501	Ref	ClearSky Telematics CS550 Installation	
	0273862	Ref	Cold Weather Package (110V)	
	1001235617	Ref	Cold Weather Package (Deutz TCD2.9L4 Engines)	
	1001271731	Ref	Cold Weather Package (Deutz TCD2.9L4 (Stage V) Engines)	
	1001291424	Ref	Cold Weather Package (Deutz TCD2.9L4 (China IV) Engines)	
	0274885	Ref	Cold Weather Transformer Installation	
	0272621	Ref	Control System Analyzer Installation	
	1001291870	Ref	Coolant Pump Assembly Service Kit	
	1001251329	Ref	Counterbalance Valve Replacement Kit	
	1001213183	Ref	Cribbing Enable Installation (ANSI Spec Only)	
	1001293369	Ref	Hood Plug Installation	
		Ref	Decal Installations	
	0257195	Ref	Decal - Government Warranty Decal	
	1001270520	Ref	Decal Kit - Machine (ANSI Spec)	
	1001272202	Ref	Decal Kit - Platform (ANSI Spec)	
	1001272090	Ref	Decal Kit - Platform Console Box (ANSI Spec)	
	2902356	Ref	Decal Kit - Tire Load	
	1001290271	Ref	ECU Power Jumper Kit - Stage V Engines Only	
		Ref	Electrical Connector Kits	
	1001148902	Ref	Amp/Tyco Electrical Connector Kit	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	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	
	1001109621	Ref	Exhaust Raincap Installation	
	1120423	Ref	Raincap	
	1001109619	Ref	Tube, Exhaust Stack	
	1001237883	Ref	Fall Arrest Bolt on Kit (6FT x 1.83M) (ANSI, ANSI Export, China, CSA, and Japanese Specs) (Fits Platform p/ns 1001186384 & 1001228376)	
	1001237882	Ref	Fall Arrest Bolt on Kit (8FT x 2.44M) (ANSI, ANSI Export, China, CSA, and Japanese Specs) (Fits Platform p/ns 1001186383)	
	1001206794	Ref	Fan and Belt Grille Add-on Kit (Deutz D2011 Engines Only)	
	1001206796	Ref	Fan and Belt Grille Add-on Kit (Deutz TCD2.9L4 Engines Only)	
	1001202076	Ref	Fan and Belt Guard (Deutz TD2011 Engines)	
	1001202221	Ref	Fan and Belt Guard (Deutz TCD2.9L4 Engines, Deutz TCD2.9L4 (Stage V Pre-Buy) Engines and Deutz TCD2.9L4 (Stage V) Engines)	
	1001203564	Ref	Fan and Belt Guard (TIER 4 FINAL/STAGE V/CHINA IV)	
	1001145708	Ref	Fan Guard Installation (Deutz TCD 2.9L4 Engines, Deutz TCD2.9L4 (Stage V Pre-Buy) Engines and Deutz TCD2.9L4 (Stage V) Engines Only)	
		Ref	Filter Kits	
		Ref	Deutz TD 2011 Engines	
	1001137028	Ref	Filter Kit (Service), Combined, Filter B-C45	
		Ref	Deutz TCD 2.9L4 Engines	
	1001225648	Ref	Filter Kit (Service), Combined, Filter B-C	
	1001204046	Ref	Engine - Water/Fuel Filter	
	1001139099	Ref	Fire Extinguisher Installation	
	1001237831	Ref	Fire Protection	
	1001274830	Ref	Floor Mat Add-on Kit (36x72 Platform) (Dealer Installed)	
	1001274829	Ref	Floor Mat Add-on Kit (36x96 Platform) (Dealer Installed)	
	1001117294	Ref	Foot Switch Shield (With Cold Weather Plus Package)	
	1001191395	Ref	Fuel Cap Cover, Lockable (Green)	
	1001202749	Ref	Fuel Cap Cover, Lockable (Black)	
	1001103286	Ref	Generator Hourmeter Installation	
	1001277689	Ref	Generator Service Kit	
	1001277849	Ref	GM to UGM2 Retrofit Ultra1 Kit	
	0273502	Ref	Headlight and Taillights Installation	
		Ref	Hose Kits	
	1001193806	Ref	Hose Kit - Boom Only	
	1001204898	Ref	Hose Kit - Platform Valve	
	1001241418	Ref	Hostile Environment Kit	
	1001299820	Ref	Hourmeter Gauge Kit	
	0273503	Ref	Illumination Lights Installation	
	1001148971	Ref	Lanyard (Bolt-on) Installation Kit	
	1001236951	Ref	Low Temperature Cutout Installation (Russian Specs)	
	1001283853	Ref	Mid Rail Deck Installation	
	1001272166	Ref	Pipe Rack Kit	
	1001195304	Ref	Platform Console Cover Kit (Clear Polycarbonate)	
	1580013	Ref	Platform Corner Storage Tray	
		Ref	Platform Entry Kits	
	1001142504	Ref	Drop Bar (Replacing Swing Gate with Drop Bar)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142505	Ref	Swing Gate (Replacing Drop Bar with Swing Gate)	
	0273466	Ref	Platform Floodlights Installation	
	1001172045	Ref	Platform Ladder Carrier Installation (30in and 36 in Platform)	
	2910351	Ref	Platform Level Cylinder Replacement Kit	
		Ref	Platform Mesh (Steel) to Mid Rail Installations (ANSI, ANSI Export, Australian and CSA Specs)	
	1001271760	Ref	Platform Mesh (Steel) to Mid Rail Installation (Side Entry Platform) - 36in x 6ft (91.5cm x 1.83m) Platforms	
	1001266284	Ref	Platform Mesh (Nylon) to Mid Rail Installation (Side Entry Platform) - 36in x 6ft (91.5cm x 1.83m) Platforms	
	1001269389	Ref	Platform Mesh (Steel) to Mid Rail Installation (Side Entry Platform) - 36in x 8ft (91.5cm x 2.44m) Platforms	
	1001266098	Ref	Platform Mesh (Nylon) to Mid Rail Installation (Side Entry Platform) - 36in x 8ft (91.5cm x 2.44m) Platforms	
	1001281458	Ref	Platform Mesh (Steel) to Top Rail Add-On Kit - 36in x 6ft (91.5cm x 1.83m) with Gate	
	1001281457	Ref	Platform Mesh (Steel) to Top Rail Add-On Kit - 36in x 8ft (91.5cm x 2.44m) with Gate	
		Ref	Platform Mesh (Steel) to Top Rail (ANSI, ANSI Export and CSA Specs)	
	1001271642	Ref	Platform Mesh (Steel) to Top Rail Installation (Side Entry Platform) - 36in x 6ft (91.5cm x 1.83m) Platforms	
	1001266489	Ref	Platform Mesh (Nylon) to Top Rail Installation (Side Entry Platform) - 36in x 6ft (91.5cm x 1.83m) Platforms	
	1001269187	Ref	Platform Mesh (Steel) to Top Rail Installation (Side Entry Platform) - 36in x 8ft (91.5cm x 2.44m) Platforms	
	1001266056	Ref	Platform Mesh (Nylon) to Top Rail Installation (Side Entry Platform) - 36in x 8ft (91.5cm x 2.44m) Platforms	
	1001281453	Ref	Platform Mesh (Steel) to Top Rail Add-On Kit - 36in x 6ft (91.5cm x 1.83m) with Gate	
	1001281452	Ref	Platform Mesh (Steel) to Top Rail Add-On Kit - 36in x 8ft (91.5cm x 2.44m) with Gate	
	1001149730	Ref	Platform Mid Rail Repair Kit	
	1001269136	Ref	Platform Portable Worklights	
		Ref	Platform Rail Extensions	
	0272733	Ref	Platform Rail Extensions - 6ft Platform	
	0272725	Ref	Platform Rail Extensions - 8ft Platform	
	0273465	Ref	Platform Worklights Installation	
	1001209059	Ref	Platform Work Surface Installation	
	1001190892	Ref	Service Tools & Kits	X
	1001247073	Ref	Skyeye Retrofit Kit	
	1001241547	Ref	SkyEye Housing Repair Kit (LH)	
	1001241548	Ref	SkyEye Housing Repair Kit (RH)	
		Ref	SkyGuard Component Options:	
	1001209481	Ref	SkyGuard Complete Add-On Kit (Blue Beacon)	
	1001210029	Ref	SkyGuard Complete Add-On Kit (Red Beacon)	
	1001250035	Ref	SkyGuard Platform Sensor Kit	
	1001249052	Ref	SkyGuard Retrofit Kit	
	1001206544	Ref	SkyGuard Strobe Light Kit (Blue Beacon)	
	1001250595	Ref	SkyGuard 6-Pin Retrofit Installation Kit	
	1001262016	Ref	SkyLine Kit (Dealer Installed)	
	1001289831	Ref	SkySense/Enhanced Detection System (EDS) Level 1 (2-Bar) Installation (Factory Installed)	
	1001289905	Ref	SkySense/Enhanced Detection System (EDS) Level 1 (2-Bar) Add-on Kit (Dealer Installed)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001289906	Ref	SkySense/Enhanced Detection System (EDS) Level 2 (3-Bar) Add-on Kit (Dealer Installed) SkySense/Enhanced Detection System (EDS) Level 2 (3-Bar) Add-on Kit (Dealer Installed)	
	1001289832	Ref	SkySense/Enhanced Detection System (EDS) Level 2 (3-Bar) Add-on Kit (Dealer Installed) SkySense/Enhanced Detection System (EDS) Level 2 (3-Bar) Installation (Factory Installed)	
	1001269655	Ref	Platform Bumper Padding Installation (36x96)	
	1001275642	Ref	Platform Bumper Padding Installation (36x72)	
	1001253618	Ref	SkySense Module Kit (EDS) Level 1 (2-Bar) (Dealer Installed)	
	1001253619	Ref	SkySense Module Kit (EDS) Level 2 (3-Bar) (Dealer Installed)	
	1001231235	Ref	SkyWelder Locking Bracket	
	1001303167	Ref	SkyWelder Extension Cord Cable	
	1001281070	Ref	Strobe Beacon Replacement Kit	
	1001294070	Ref	Strobe Light (Blue) Kit	
	1001292586	Ref	Strobe Light (Amber) Kit	
	1001284521	Ref	Telematics Gateway (Dealer Installed)	
		Ref	Tools For Service	
	2901443	Ref	Analyzer Kit	
	1001249695	Ref	Analyzer, Machine System with Cable	
	1001249941	Ref	Analyzer, Machine System with Cable (Battery Powered)	
	3128444	Ref	CD, Troubleshooting	
	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)	
	7016654	Ref	Screwdriver, Magnetic	
	7002822	Ref	Screwdriver, Pontiometer	
	7004275	Ref	Seal Tool 1 in (For Cylinders)	
	7004276	Ref	Seal Tool 1-1/2 in (For Cylinders)	
	7002828	Ref	Stripper, Wire	
	7016655	Ref	Wire Rope Sheave Gauge	
	1001106846	Ref	Sleeve, Cylinder Head Installation (Tower Lift Cylinder)	
	1001106847	Ref	Sleeve, Cylinder Piston Installation (Tower Lift Cylinder)	
	1001106848	Ref	Gauge, Go - No Go (Tower Lift Cylinder)	
	1001107000	Ref	Sleeve, Cylinder Head Installation (Main Lift Cylinder)	
	1001107001	Ref	Sleeve, Cylinder Piston Installation (Main Lift Cylinder)	
	1001107002	Ref	Gauge, Go - No Go (Main Lift Cylinder)	
	1001107143	Ref	Sleeve, Cylinder Head Installation (Tower Telescope Cylinder)	
	1001107145	Ref	Sleeve, Cylinder Piston Installation (Tower Telescope Cylinder)	
	1001107146	Ref	Gauge, Go - No Go (Tower Telescope Cylinder)	
	1001107147	Ref	Gauge, Go - No Go (Tower Telescope Cylinder)	
	1001137005	Ref	Software Cable Kit (Service Kit)	
	70004185	Ref	Torque Multiplier	
	70004646	Ref	Puller	
	70004647	Ref	Seal Tool for Lifetine Seal Assembly	
	70004648	Ref	Puller for Brade Disassembly	
	1001265327	Ref	Tower Stow Sensor/Indicator Add-on Kit (Dealer Installed)	
	2915072	Ref	Turntable Bearing Kit	
	1001277844	Ref	UGM2 Retrofit Ultra1 Kit	
	1001274249	Ref	USB Charger Add-on Kit (Dealer Installed)	

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	1001262959	Ref	Voltage Regulator Relocatio Kit (ClearSky)	
	1001119136	Ref	Wear Pad Kit (Includes Wear Pads, Shims and Hardware)	
	0273467	Ref	Weld Leads at Platform Installation	
	1001277222	Ref	White Noise Alarm Kit	
	1001277191	Ref	White Noise Ambient Alarm Kit	

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