Illustrated Parts Manual

642

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English (en-US)

EFFECTIVITY PAGE

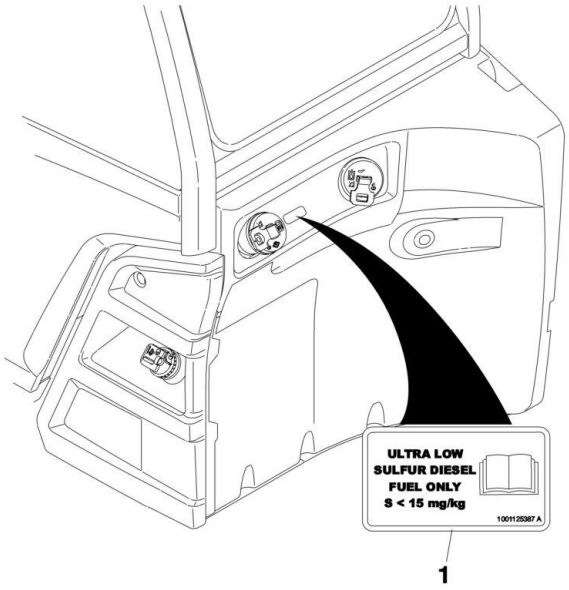
REVISION LOG:

May 6, 2024 - A - Original Issue of Manual

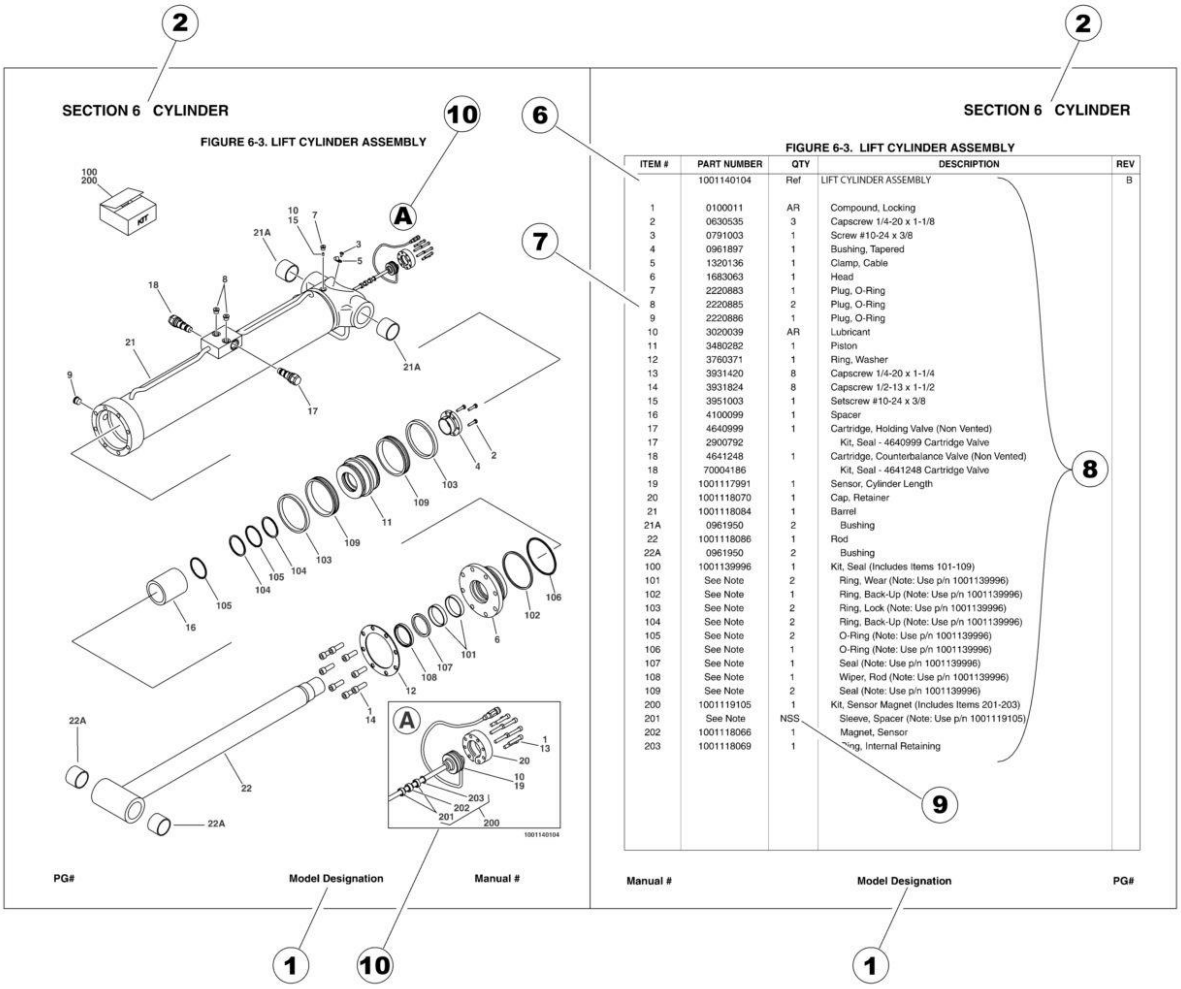
Machine Configuration

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

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



GENERAL INFORMATION



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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FIGURE 13-1. SPECIAL OPTIONS/ACCESSORIES/KITS 1076

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SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. BOOM PROP INSTALLATION (ANSI)

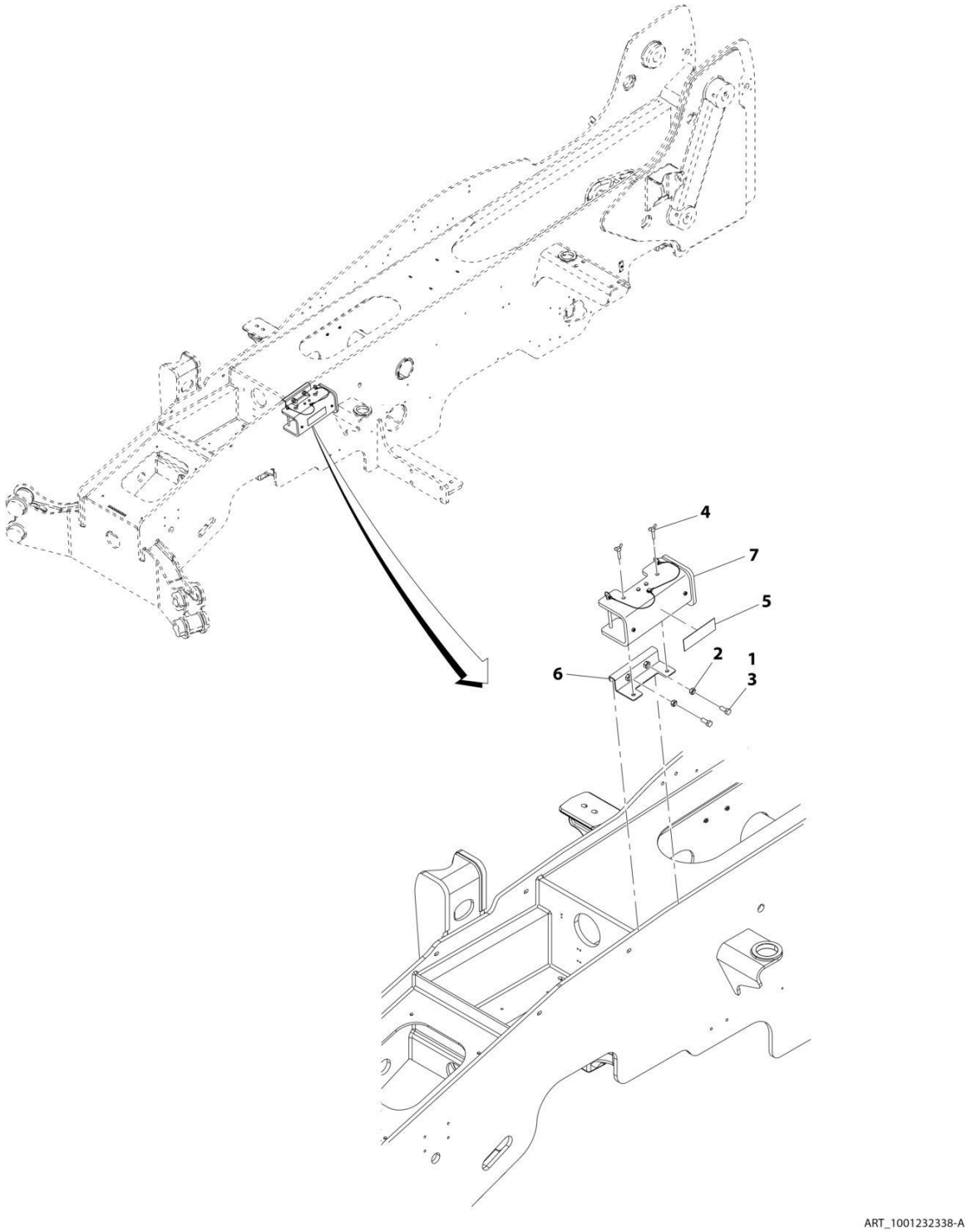


FIGURE 1-1. BOOM PROP INSTALLATION (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232338	Ref	Boom Prop Installation (ANSI)	A
1	0761214	2	Bolt, M12X30	
2	3291201	2	Nut, M12X1.75	
3	1001095650	AR	Compound, Locking	
4	1001101458	2	Wing Bolt, M8X40	
5	1001232147	1	Decal, Warning	
6	1001232299	1	Bracket, Mount	
7	1001232336	Ref	Bracket, Boom Prop (See Separate Breakdown in this Section)	

FIGURE 1-2. BOOM PROP INSTALLATION (CANADA)

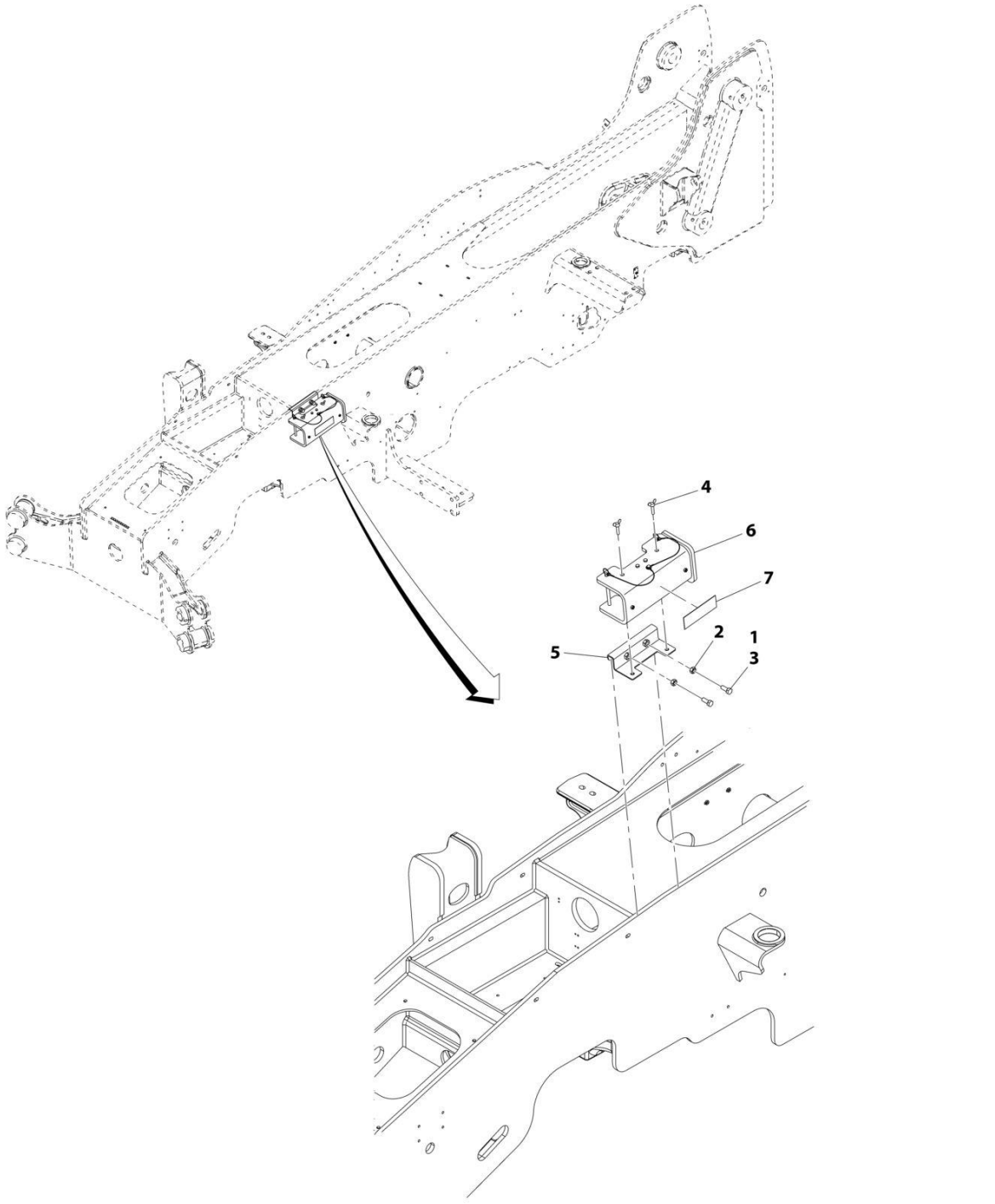


FIGURE 1-2. BOOM PROP INSTALLATION (CANADA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001234139	Ref	Boom Prop Installation (Canada)	A
1	0761214	2	Bolt, M12X30	
2	3291201	2	Nut, M12X1.75	
3	1001095650	AR	Compound, Locking	
4	1001101458	2	Wing Bolt, M8X40	
5	1001232299	1	Bracket, Mount	
6	1001232336	Ref	Bracket, Boom Prop (See Separate Breakdown in this Section)	
7	1001234253	1	Decal, Warning	

FIGURE 1-3. BOOM PROP BRACKET

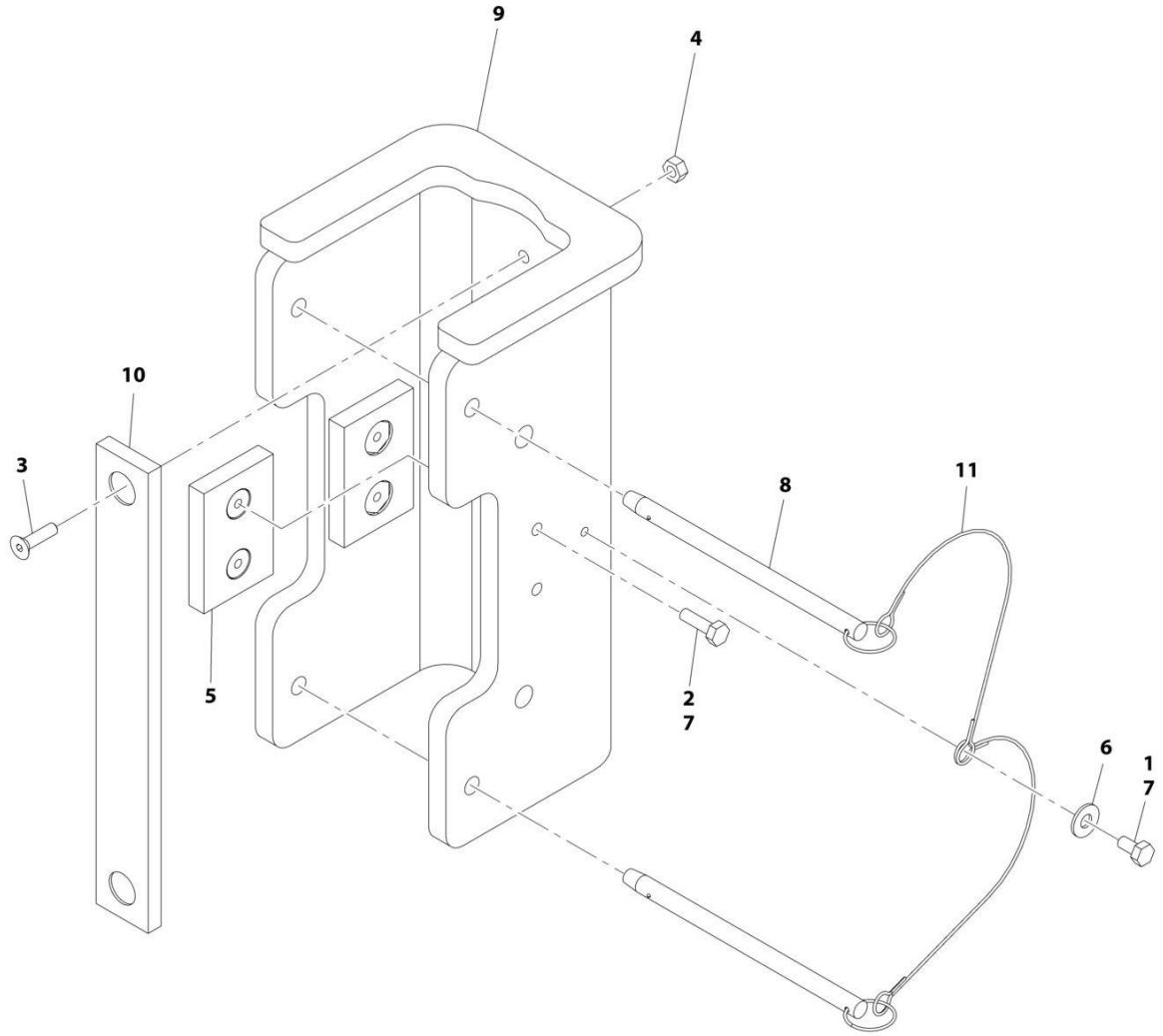


FIGURE 1-3. BOOM PROP BRACKET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232336	Ref	Boom Prop Bracket	A
1	0641404	1	Bolt, 1/4-20X1/2	
2	0641407	4	Bolt, 1/4-20X7/8	
3	0741408	2	Bolt, 1/4-20	
4	3311405	2	Nut, Lock 1/4-20	
5	3340829	2	Pad, Wear	
6	4751400	1	Washer	
7	1001095650	AR	Compound, Locking	
8	1001164019	2	Pin, Ball Locking	
9	1001232588	1	Bracket	
10	4679000268	1	Pad, Wear	
11	1001164183	2	Lanyard, Boom Prop	

FIGURE 1-4. COUNTERWEIGHT INSTALLATION (Prior to SN 0160078400)

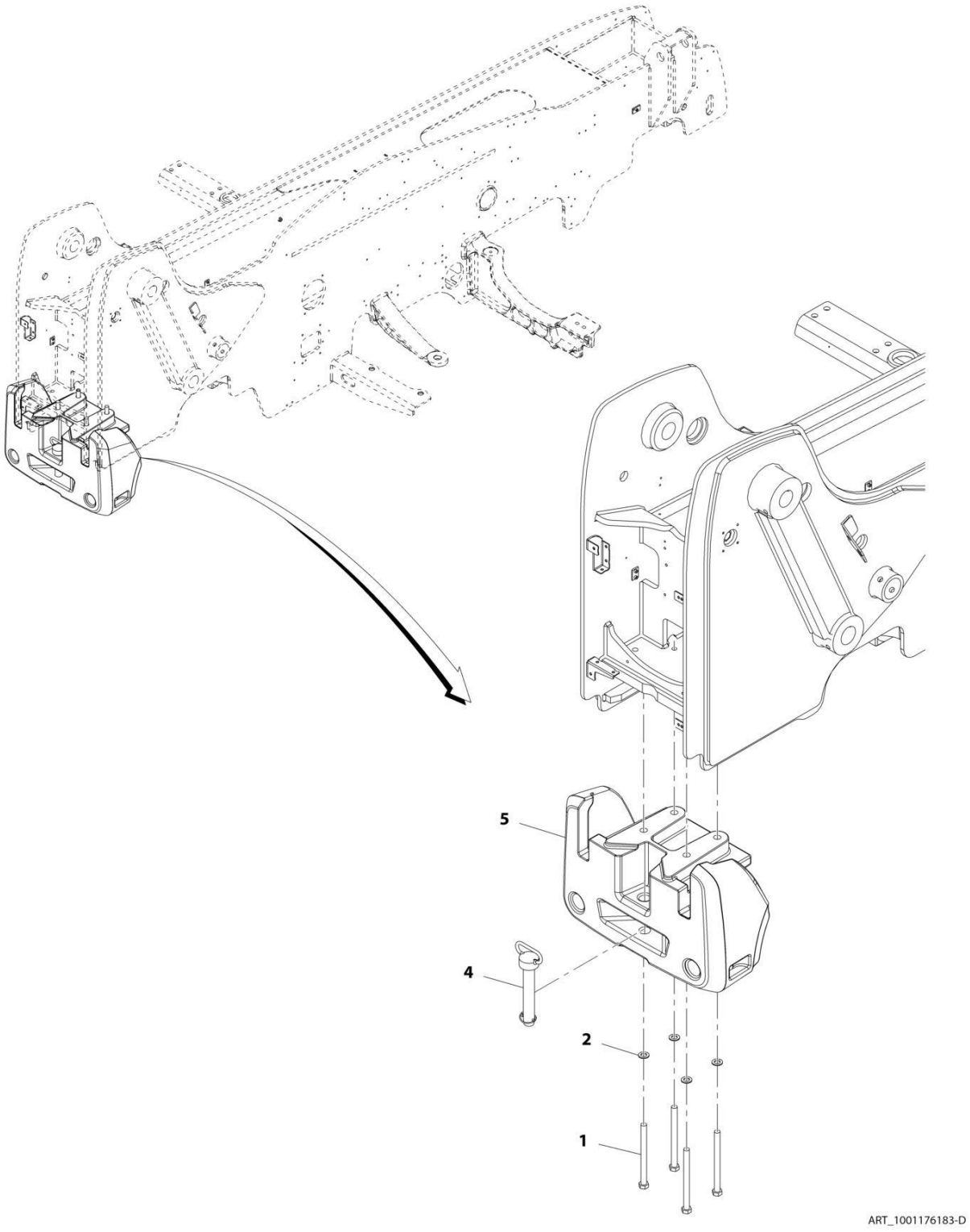


FIGURE 1-4. COUNTERWEIGHT INSTALLATION (Prior to SN 0160078400)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176183	Ref	Counterweight Installation	D
1	0712042	4	Bolt, M20X250 Grade 10.9	
2	8310620	4	Washer, M20	
4	1001211913	1	Pin, Hitch	
5	1001177653J	1	Counterweight	

FIGURE 1-5. COUNTERWEIGHT INSTALLATION (SN 0160078400 to Present)

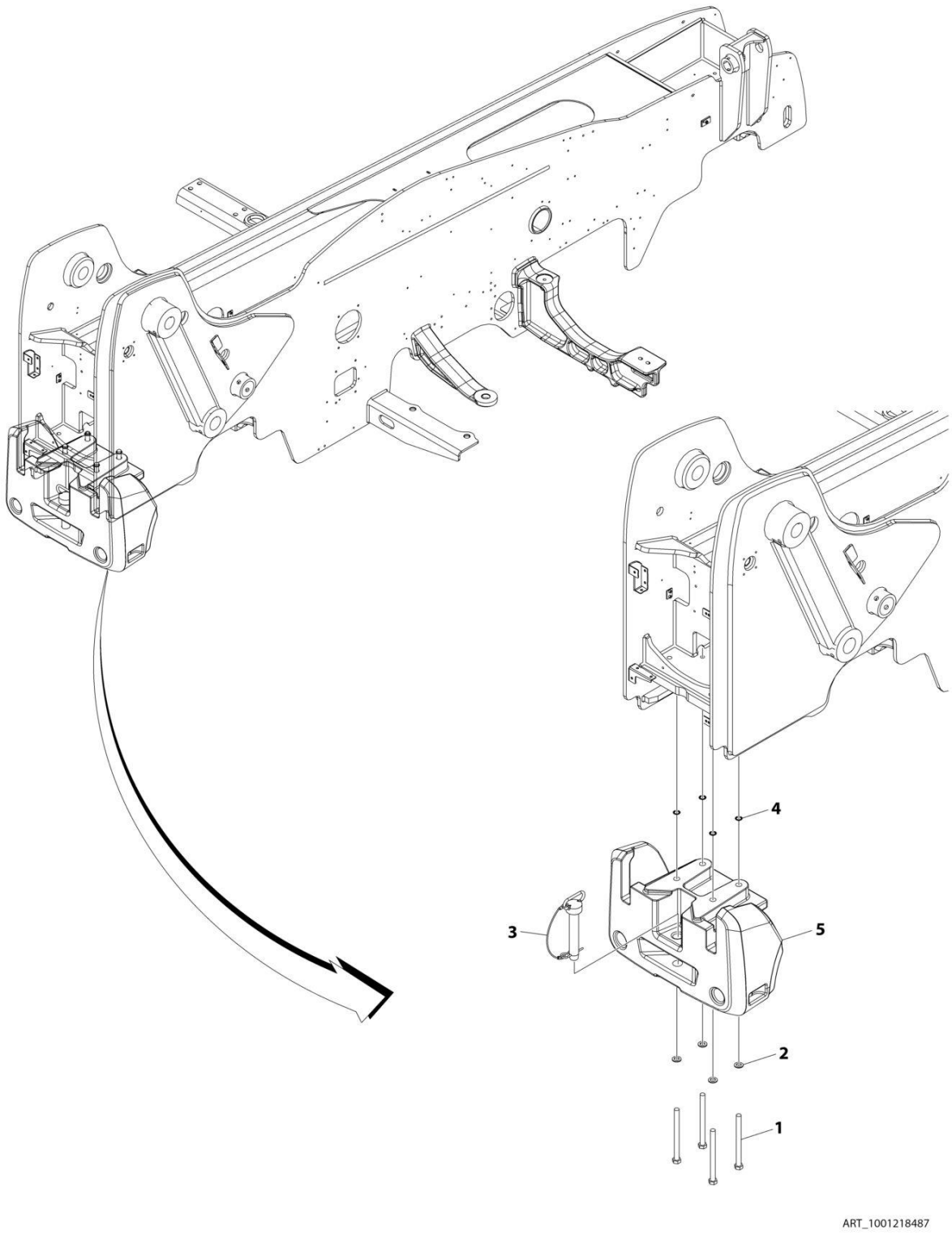


FIGURE 1-5. COUNTERWEIGHT INSTALLATION (SN 0160078400 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218487	Ref	Counterweight Installation	B
1	0712042	4	Bolt, M20X250 Grade 10.9	
2	8310620	4	Washer, M20	
3	1001160250	1	Pin, Hitch	
4	1001218341	4	Washer	
5	1001177653J	1	Counterweight	

FIGURE 1-6. COVER INSTALLATION (OUTRIGGERS) (LS)

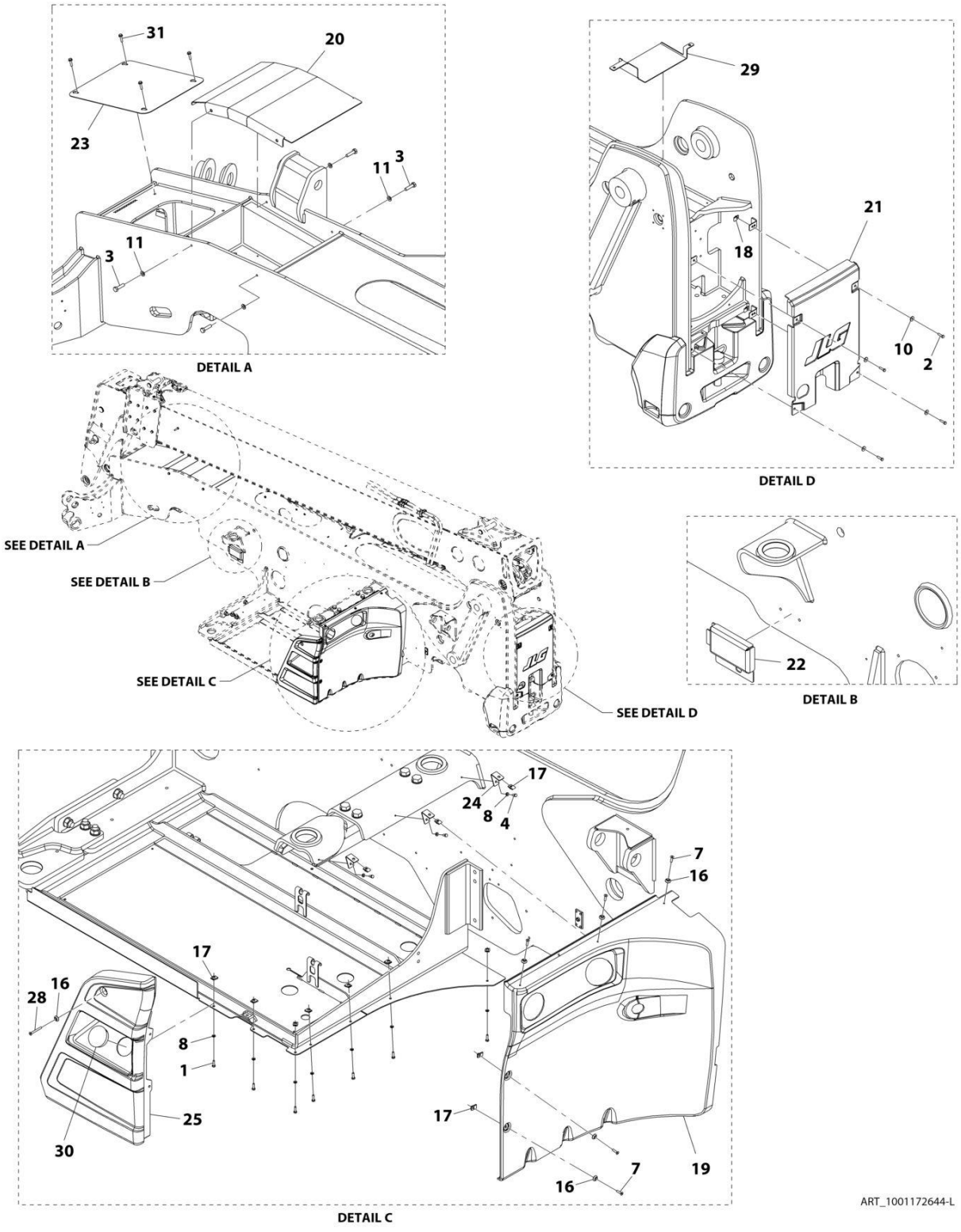


FIGURE 1-6. COVER INSTALLATION (OUTRIGGERS) (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172644	Ref	Cover Installation (Outriggers) (LS) (1043,642)	L
1	0700610	7	Bolt, M6X20	
2	0700814	4	Bolt, M8X30	
3	0701016	4	Bolt, M10X40	
4	0760606	3	Bolt, M6X12	
7	3900379	5	Screw, M6-1X25	
8	4811700	10	Washer, M6	
10	4811902	4	Washer, M8	
11	4812000	4	Washer, M10	
16	1001097540	6	Washer, M6	
17	1001130220	12	Nut, M6	
18	1001149160	4	Nut, M8	
19	1001168761	1	Cover, Rear Tank	
20	1001207343	1	Shield, Battery	
21	1001170645	1	Cover	
22	1001201646	1	Shield, Inspection Port	
23	1001170665	1	Plate, Valve Cover	
24	1001171772	3	Plate, Angle Bracket	
25	1001168760	1	Cover, Side Tank	
28	1001112902	1	Screw, M6	
29	1001204488	1	Cover, Rear Frame Module	
30	1001206746	1	Cap, Side Tank Cover	
31	5250814	4	Bolt, M8X30	

FIGURE 1-7. COVER INSTALLATION (OUTRIGGERS) (ULS)

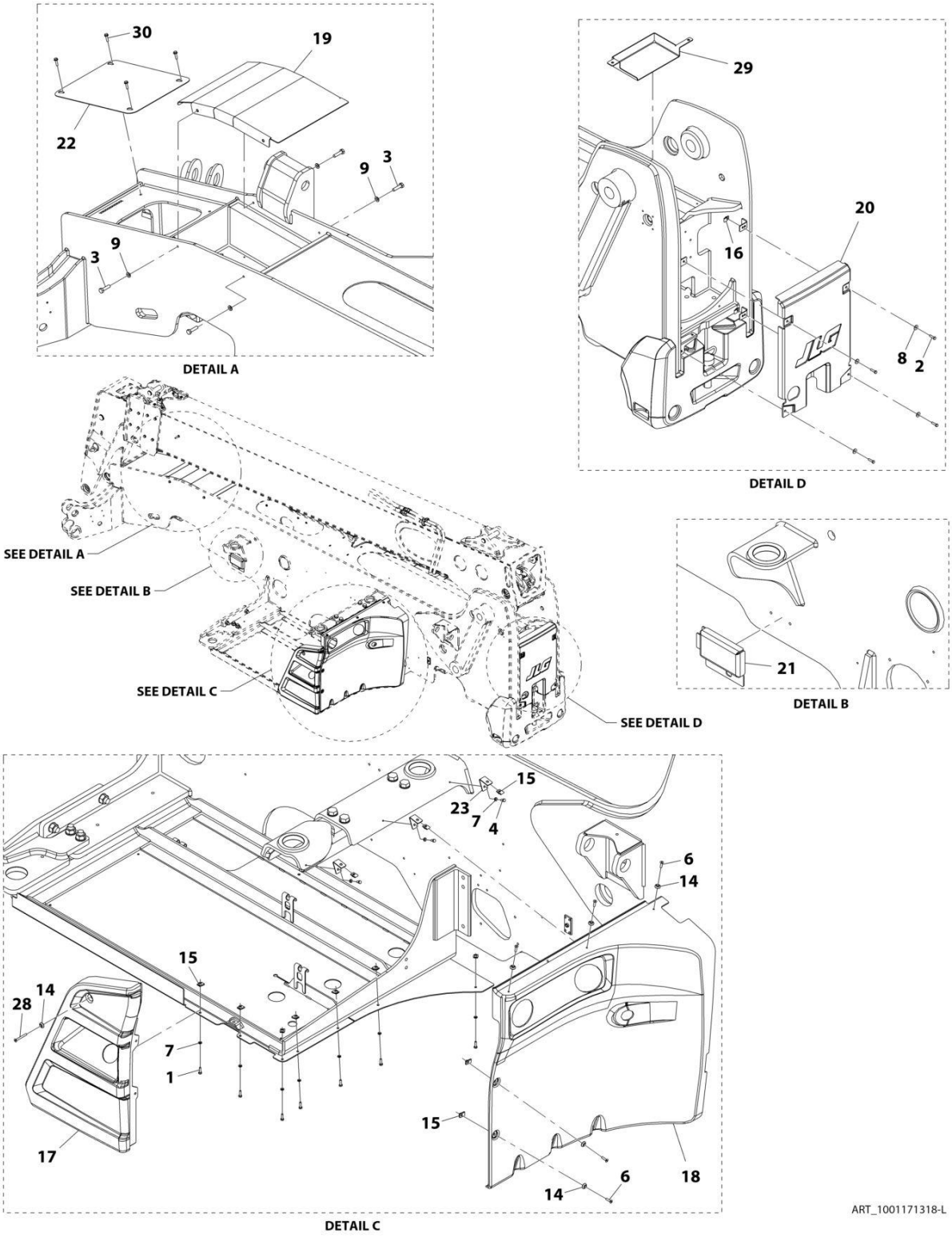


FIGURE 1-7. COVER INSTALLATION (OUTRIGGERS) (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171318	Ref	Cover Installation (Outriggers) (ULS) (1043,642)	L
1	0700610	7	Bolt, M6X20	
2	0700814	4	Bolt, M8X30	
3	0701016	4	Bolt, M10X40	
4	0760606	3	Bolt, M6X12	
6	3900379	5	Screw, M6-1X25	
7	4811700	10	Washer, M6	
8	4811902	4	Washer, M8	
9	4812000	4	Washer, M10	
14	1001097540	6	Washer, M6	
15	1001130220	12	Nut, M6	
16	1001149160	4	Nut, M8	
17	1001168760	1	Cover, Side Tank	
18	1001168761	1	Cover, Rear Tank	
19	1001207343	1	Shield, Battery	
20	1001170645	1	Cover	
21	1001201646	1	Shield, Inspection Port	
22	1001170665	1	Plate, Valve Cover	
23	1001171772	3	Plate, Angle Bracket	
28	1001112902	1	Screw, M6	
29	1001204488	1	Cover, Rear Frame Module	
30	5250814	4	Bolt, M8X30	

FIGURE 1-8. COVER INSTALLATION (NO OUTRIGGERS) (LS)

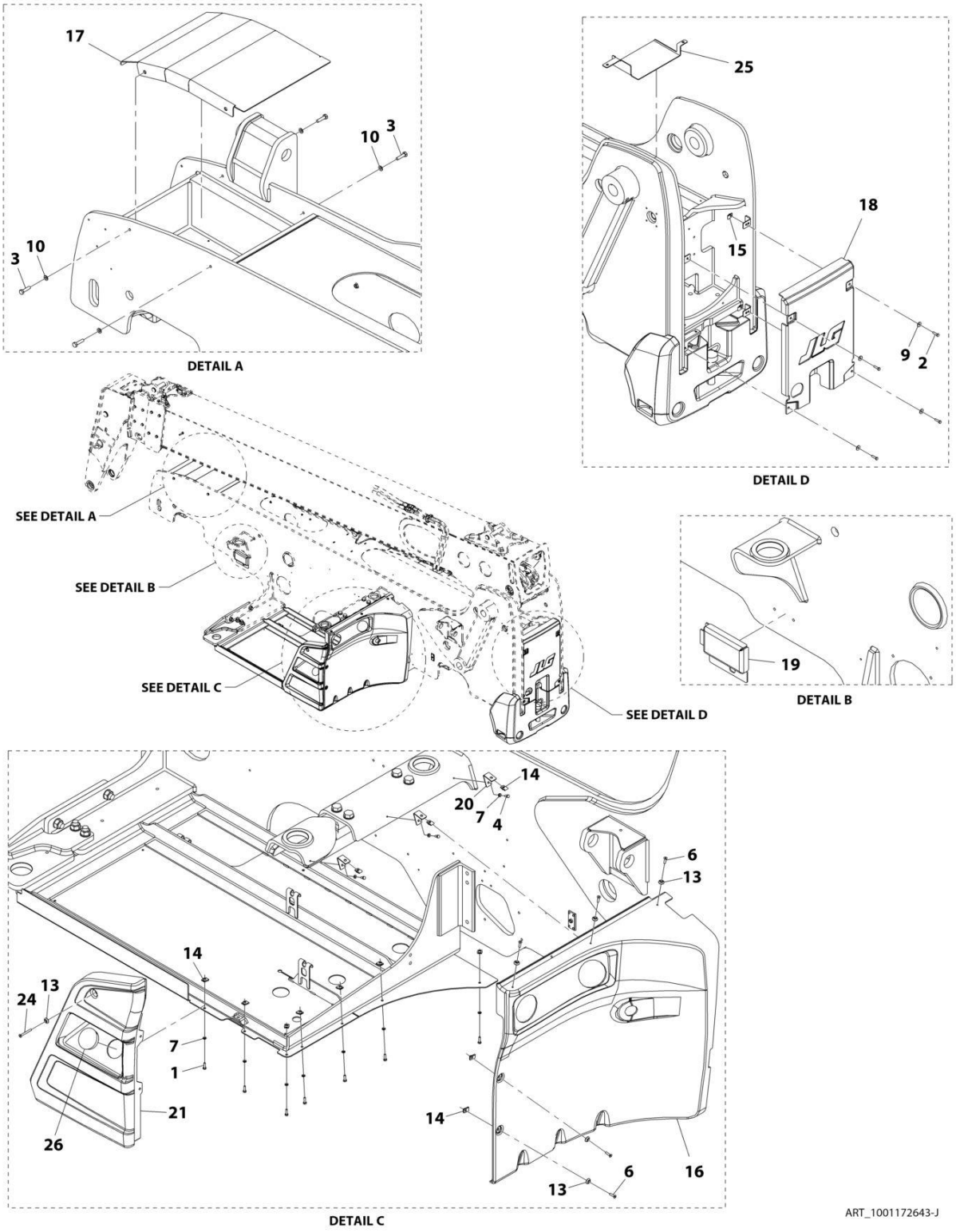


FIGURE 1-8. COVER INSTALLATION (NO OUTRIGGERS) (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172643	Ref	Cover Installation (No Outriggers), 74HP (LS) (642,742,943)	J
1	0700610	7	Bolt, M6X20	
2	0700814	4	Bolt, M8X30	
3	0701016	4	Bolt, M10X40	
4	0760606	3	Bolt, M6X12	
6	3900379	5	Screw, M6-1X25	
7	4811700	10	Washer, M6	
9	4811902	4	Washer, M8	
10	4812000	4	Washer, M10	
13	1001097540	6	Washer, M6	
14	1001130220	12	Nut, M6	
15	1001149160	4	Nut, M8	
16	1001168761	1	Cover, Rear Tank	
17	1001207343	1	Shield, Battery	
18	1001170645	1	Cover	
19	1001201646	1	Shield, Inspection Port	
20	1001171772	3	Bracket	
21	1001168760	1	Cover, Side Tank	
24	1001112902	1	Screw, M6	
25	1001204488	1	Cover, Rear Frame Module	
26	1001206746	1	Cap, Side Tank Cover	

FIGURE 1-9. COVER INSTALLATION (NO OUTRIGGERS) (ULS)

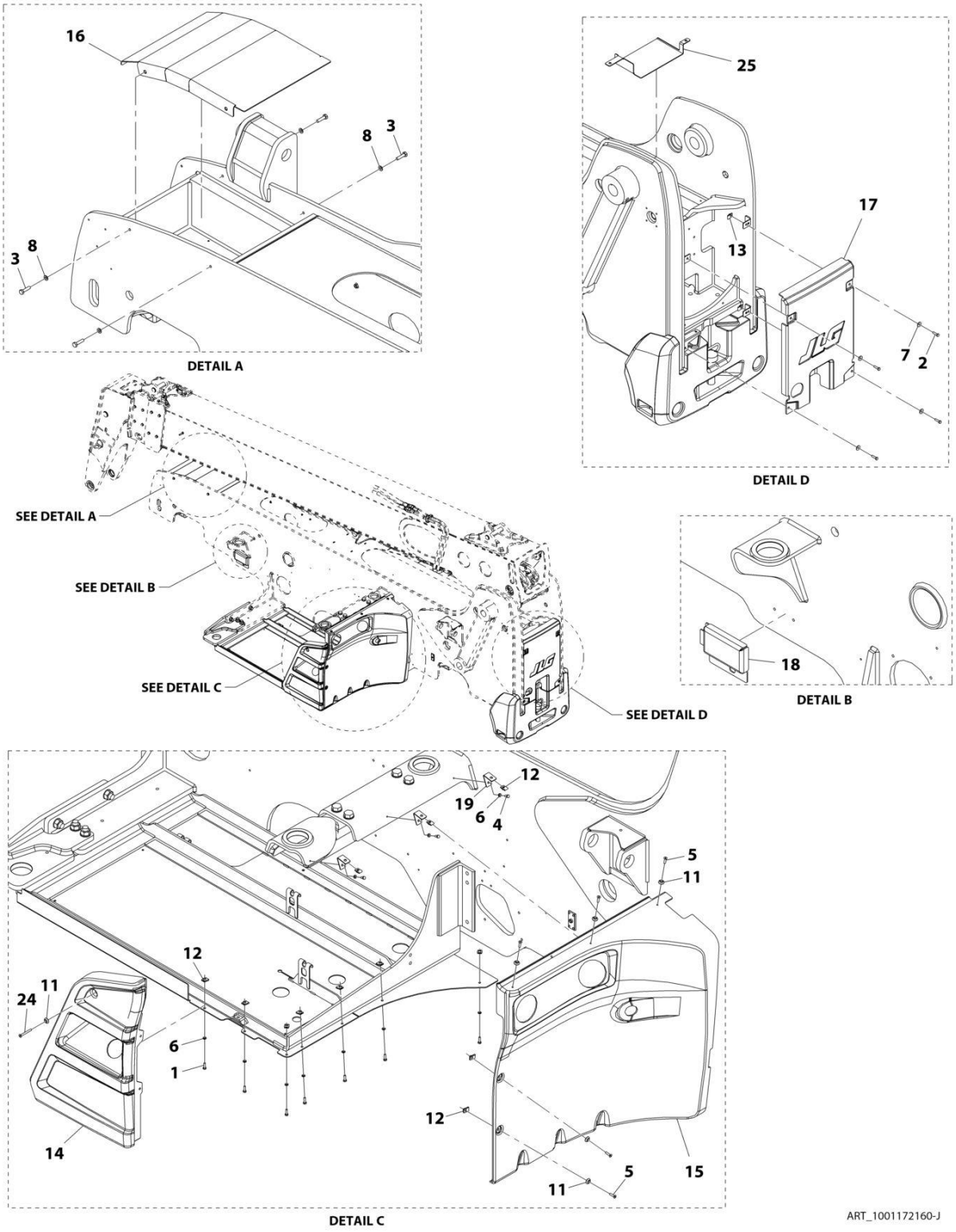


FIGURE 1-9. COVER INSTALLATION (NO OUTRIGGERS) (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172160	Ref	Cover Installation (No Outriggers) (ULS)	J
1	0700610	7	Bolt, M6X20	
2	0700814	4	Bolt, M8X30	
3	0701016	4	Bolt, M10X40	
4	0760606	3	Bolt, M6X12	
5	3900379	5	Bolt, M6X25	
6	4811700	10	Washer, M6	
7	4811902	4	Washer, M8	
8	4812000	4	Washer, M10	
11	1001097540	6	Washer, M6	
12	1001130220	12	Nut, M6	
13	1001149160	4	Nut, M8	
14	1001168760	1	Cover, Side Tank	
15	1001168761	1	Cover, Rear Tank	
16	1001207343	1	Shield, Battery	
17	1001170645	1	Cover	
18	1001201646	1	Shield, Inspection Port	
19	1001171772	3	Bracket	
24	1001112902	1	Screw, M6	
25	1001204488	1	Cover, Rear Frame Module	

FIGURE 1-10. ENGINE ENCLOSURE INSTALLATION

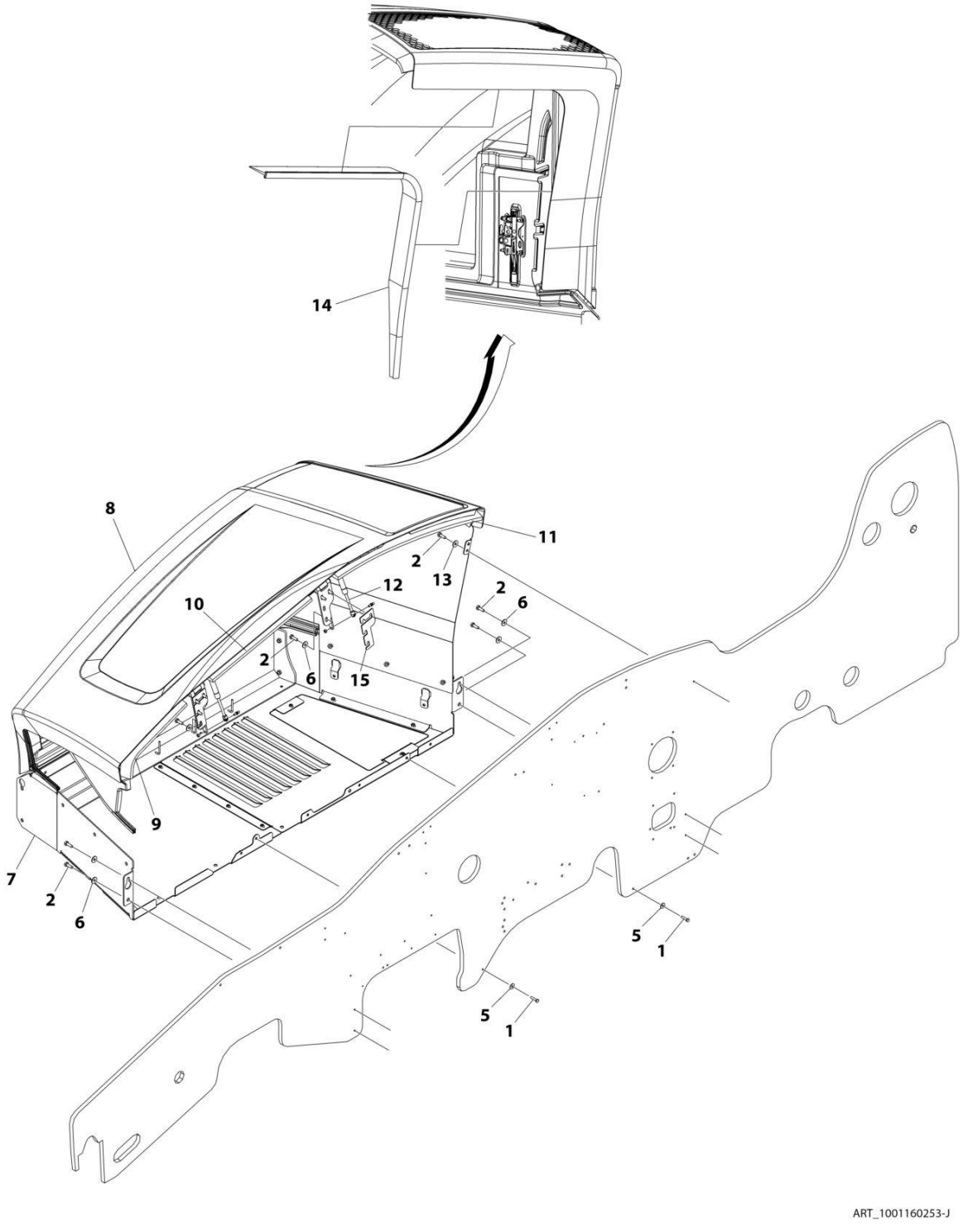


FIGURE 1-10. ENGINE ENCLOSURE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160253	Ref	Engine Enclosure Installation	J
1	0760815	2	Bolt, M8X35	
2	0701014	11	Bolt, M10X30	
5	4811902	2	Washer, M8	
6	4812002	10	Washer, M10	
7	1001162239	Ref	Installation, Engine Enclosure Cover (See Separate Breakdown in this Section)	
8	1001235963	Ref	Assembly, Hood (See Separate Breakdown in this Section)	
9	1001203932	1	Seal	
10	1001203933	1	Seal	
11	1001203934	1	Seal	
12	1001171885	2	Spring, Gas	
13	4812000	1	Washer, M10	
14	1001197339	1	Trim, Lock Seal	
15	1001241836	AR	Shim	

FIGURE 1-11. ENGINE ENCLOSURE COVER INSTALLATION

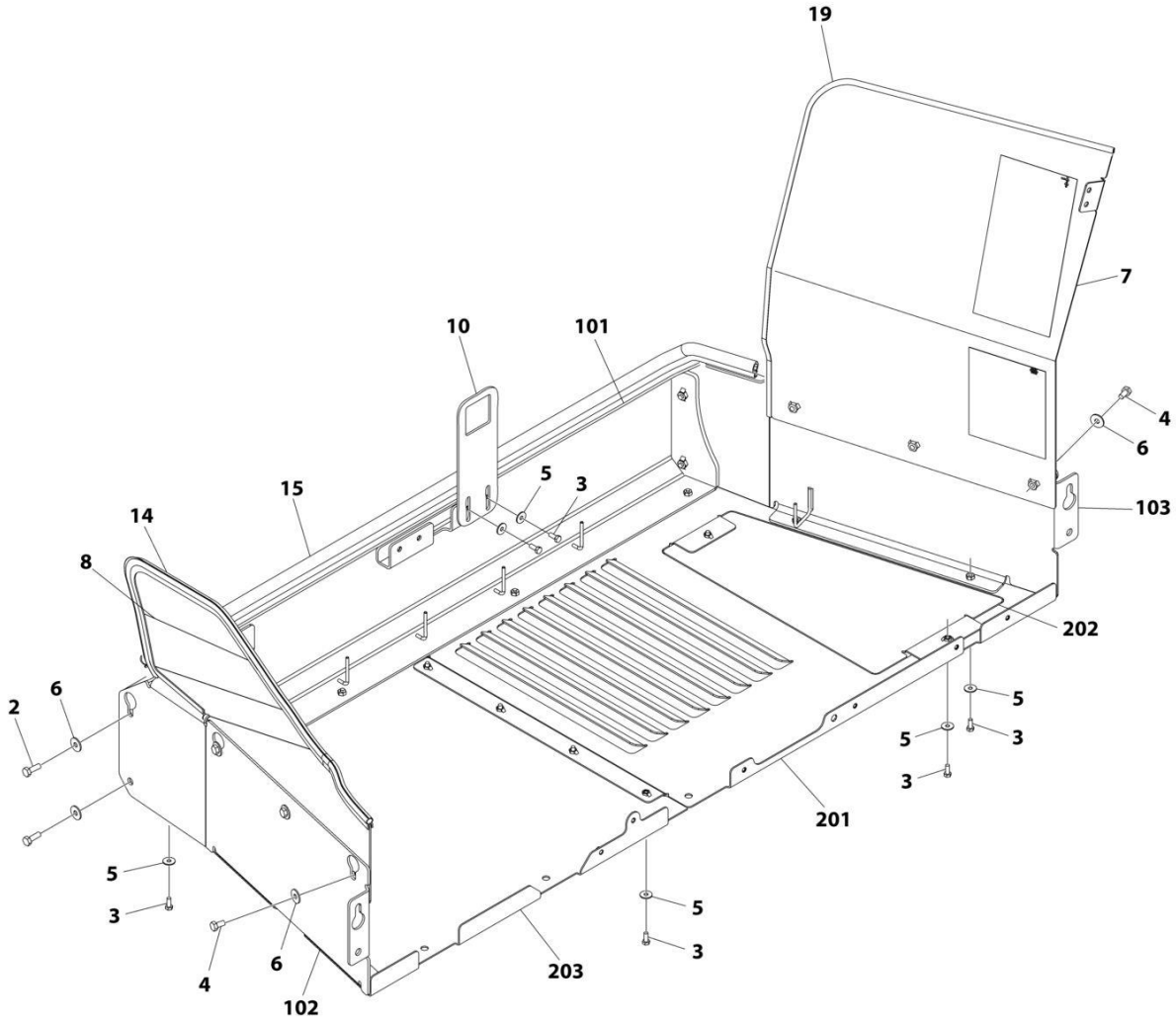


FIGURE 1-11. ENGINE ENCLOSURE COVER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162239	Ref	Engine Enclosure Cover Installation	N
2	0701014	4	Bolt, M10X30	
3	0760810	16	Bolt, M8X20	
4	0761010	6	Bolt, M10X20	
5	4811902	16	Washer, M8	
6	4812002	10	Washer, M10	
7	1001204086	1	Plate, Rear Cover	
8	1001184076	1	Panel, Front Cover	
10	1001209388	1	Latch, Hood	
14	1001003227	1375 mm	Seal	
15	1001204486	1795 mm	Seal	
19	90206198	1345 mm	Trim, Edge	
101	1001162240J	1	Panel, Side Skirt	
102	1001213126J	1	Panel, Front Skirt	
103	1001196426J	1	Panel, Rear Skirt	
201	1001196422	1	Panel, Bottom Cover	
202	1001169265	1	Panel, Access	
203	1001196404	1	Panel, Engine Pod	

FIGURE 1-12. FRAME (OUTRIGGERS) (Prior to SN 0160079247)

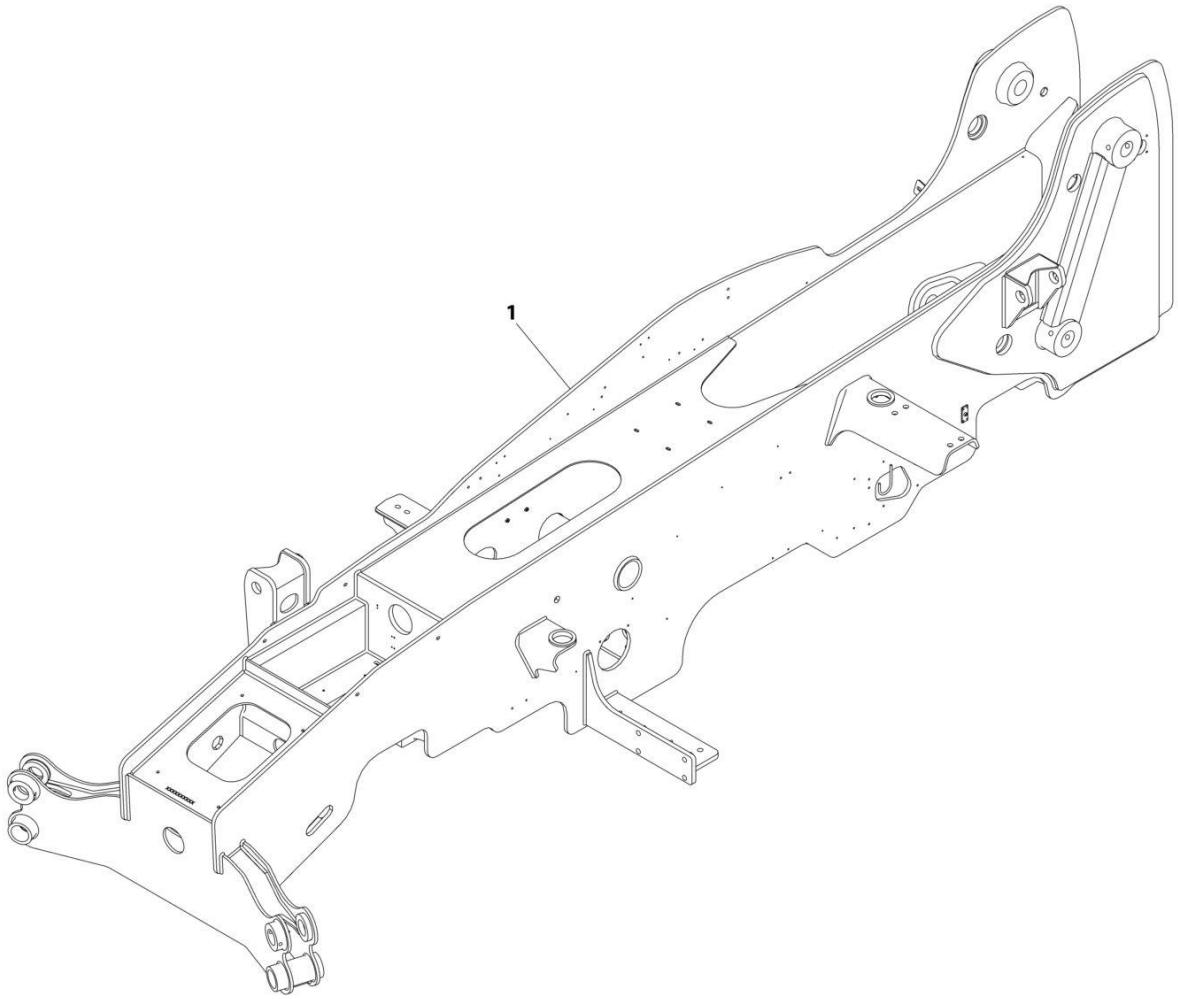


FIGURE 1-12. FRAME (OUTRIGGERS) (Prior to SN 0160079247)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001162653J	1	Frame (Outriggers) (642)	S

FIGURE 1-13. FRAME (OUTRIGGERS) (SN 0160079247 to Present)

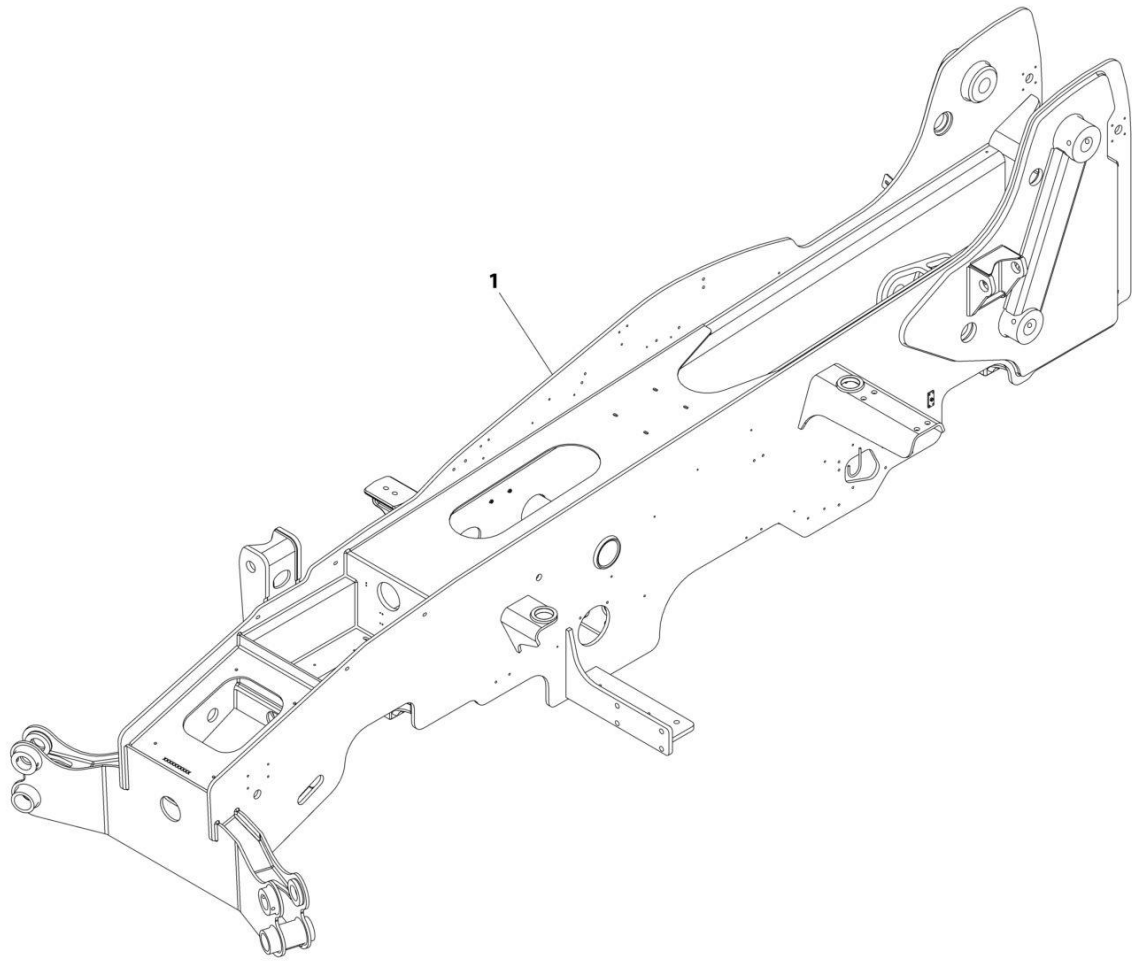


FIGURE 1-13. FRAME (OUTRIGGERS) (SN 0160079247 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001220554J	1	Frame (Outriggers) (642)	B

FIGURE 1-14. FRAME (NO OUTRIGGERS) (Prior to SN 0160079247)

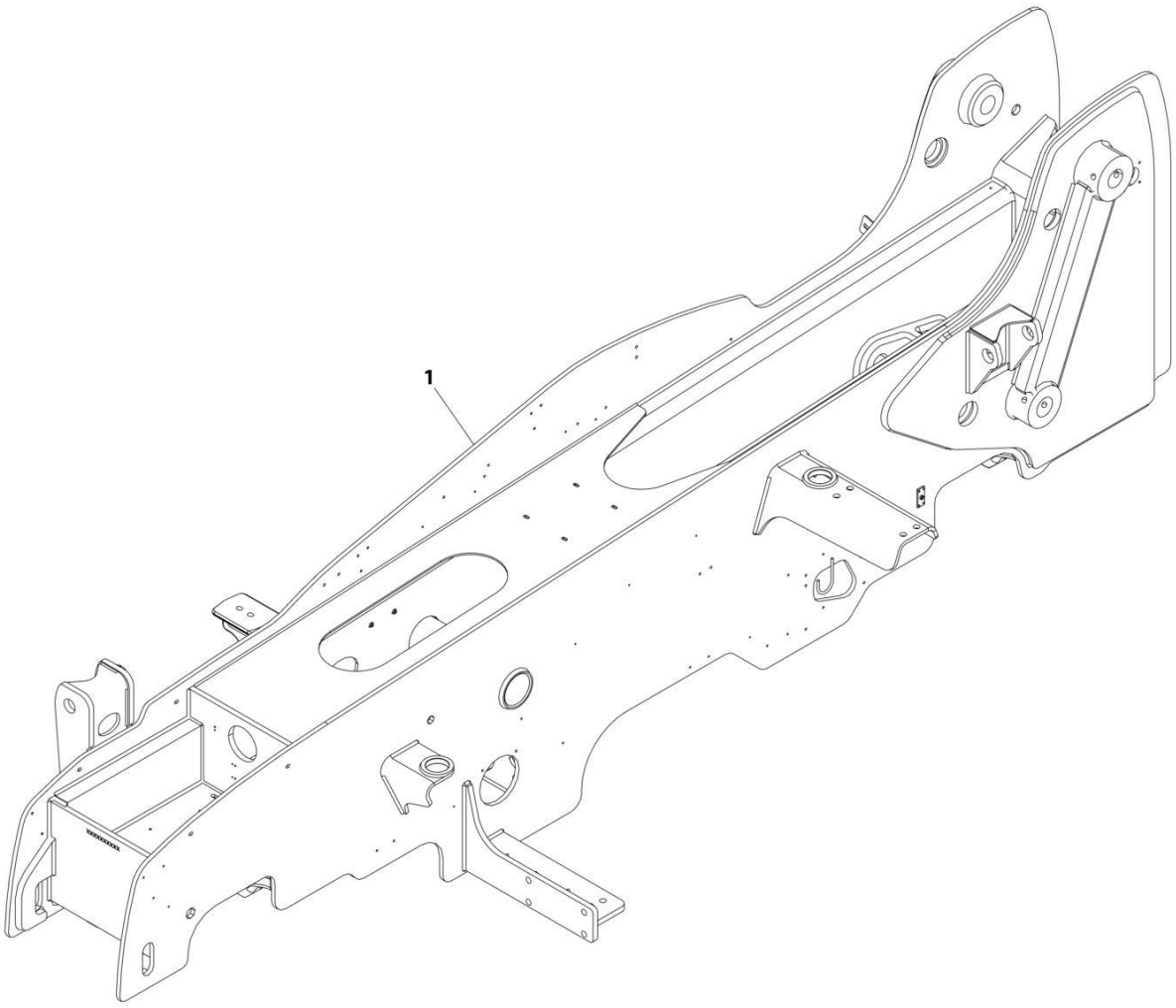


FIGURE 1-14. FRAME (NO OUTRIGGERS) (Prior to SN 0160079247)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001159982J	1	Frame (No Outriggers) (642) (642)	P

FIGURE 1-15. FRAME (NO OUTRIGGERS) (SN 0160079247 to Present)

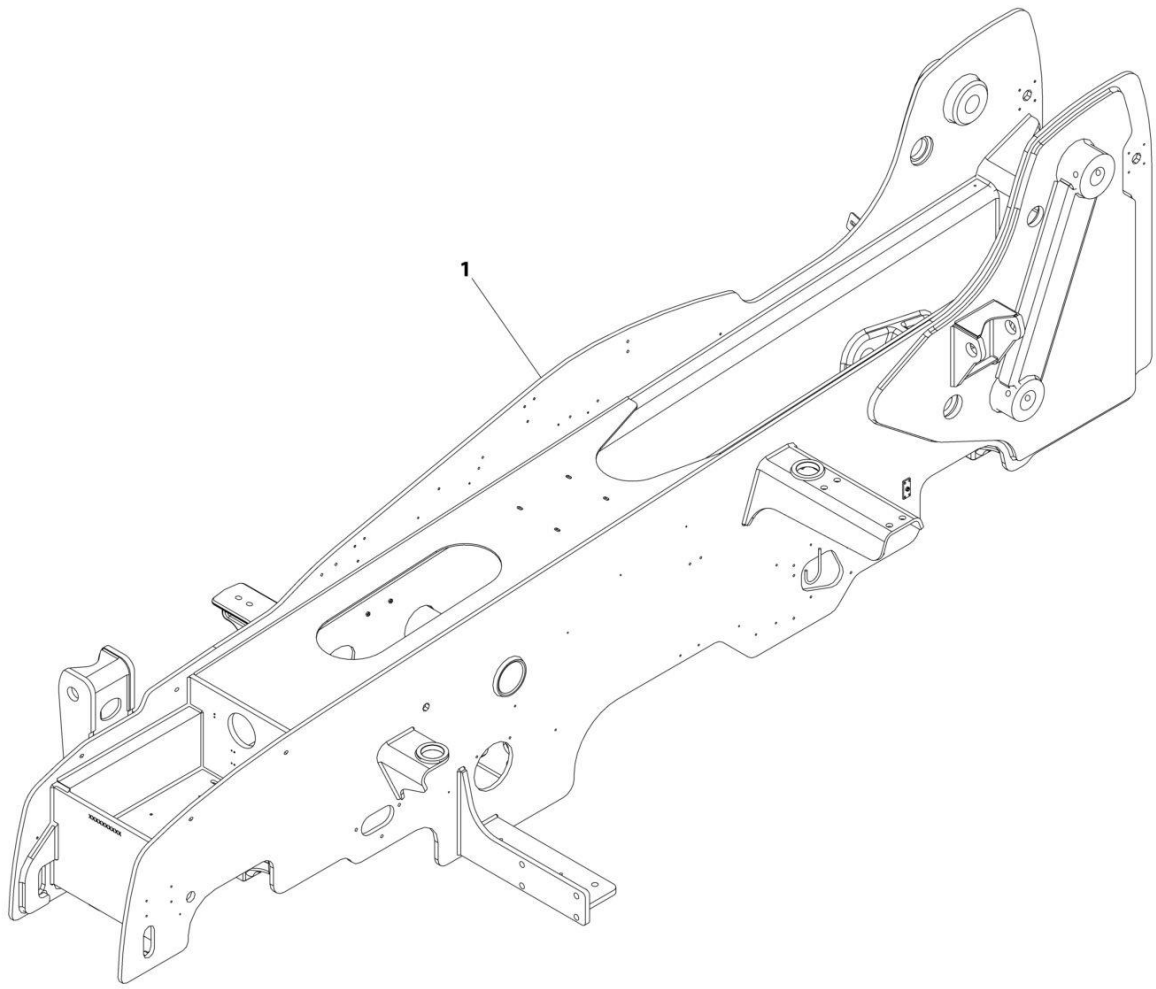


FIGURE 1-15. FRAME (NO OUTRIGGERS) (SN 0160079247 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001220553J	1	Frame (No Outriggers)	C

FIGURE 1-16. FUEL TANK INSTALLATION

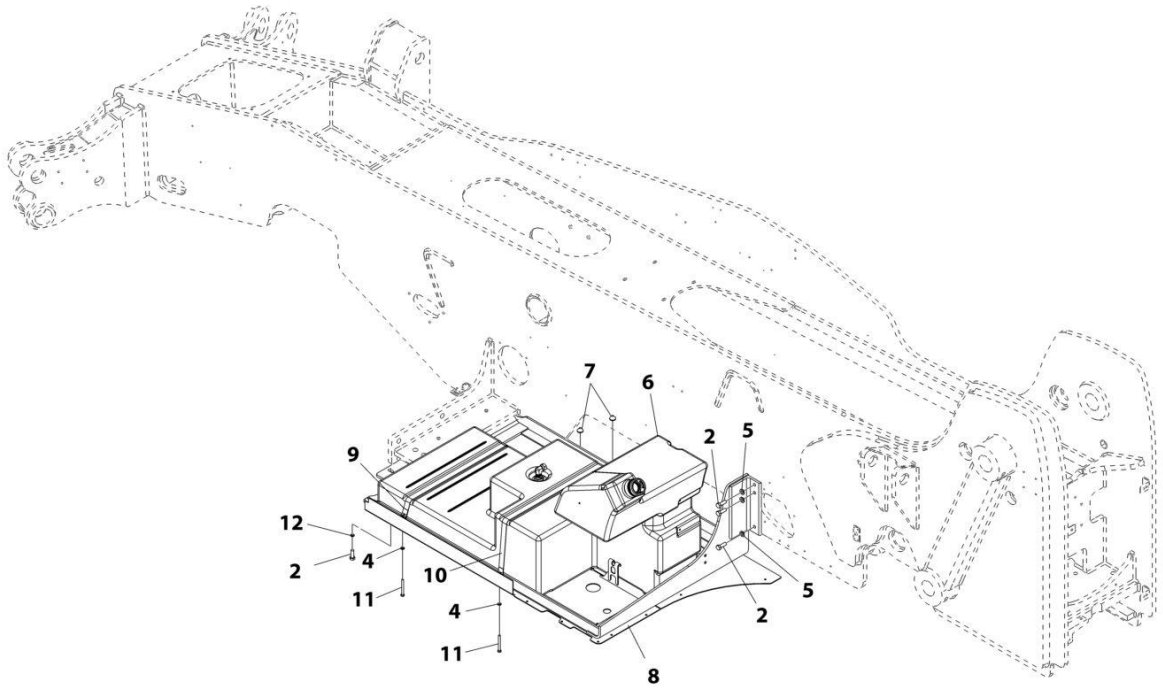
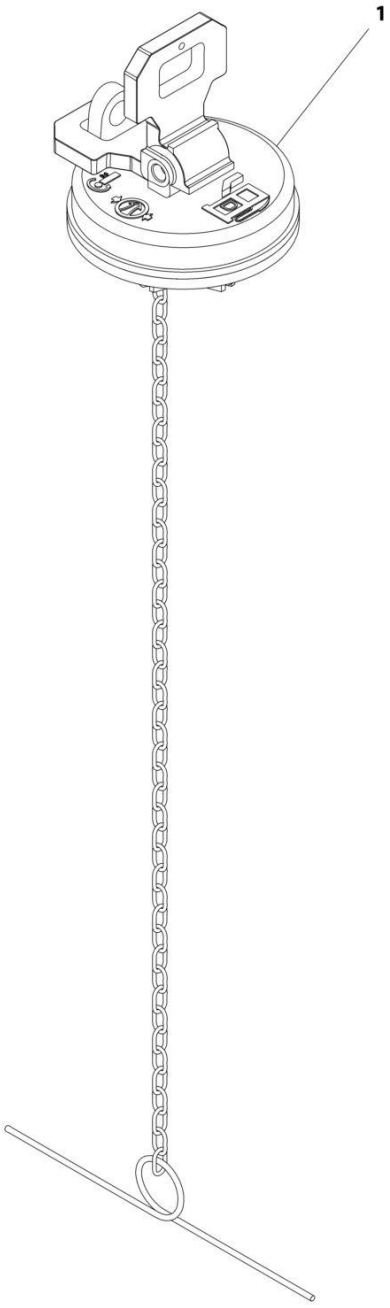


FIGURE 1-16. FUEL TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171153	Ref	Fuel Tank Installation	H
2	0761215	6	Bolt, M12X35	
4	4811900	2	Washer, M8	
5	4812100	3	Washer, M12	
6	1001211432	1	Tank, Fuel (See Separate Breakdown in ENGINE AND ATTACHING PARTS Section)	
7	1001169454	4	Mount, Buffer	
8	1001169602	1	Support, Tank Plate	
9	1001170071	1	Strap, Tank	
10	1001170072	1	Strap, Tank	
11	0760823	2	Bolt, M8X75	
12	4812102	3	Washer, M12	

FIGURE 1-17. FUEL CAP ASSEMBLY



ART_1001194978-A

FIGURE 1-17. FUEL CAP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001194978	1	Fuel Cap Assembly	A

FIGURE 1-18. HOOD ASSEMBLY (Prior to SN 0160079247)

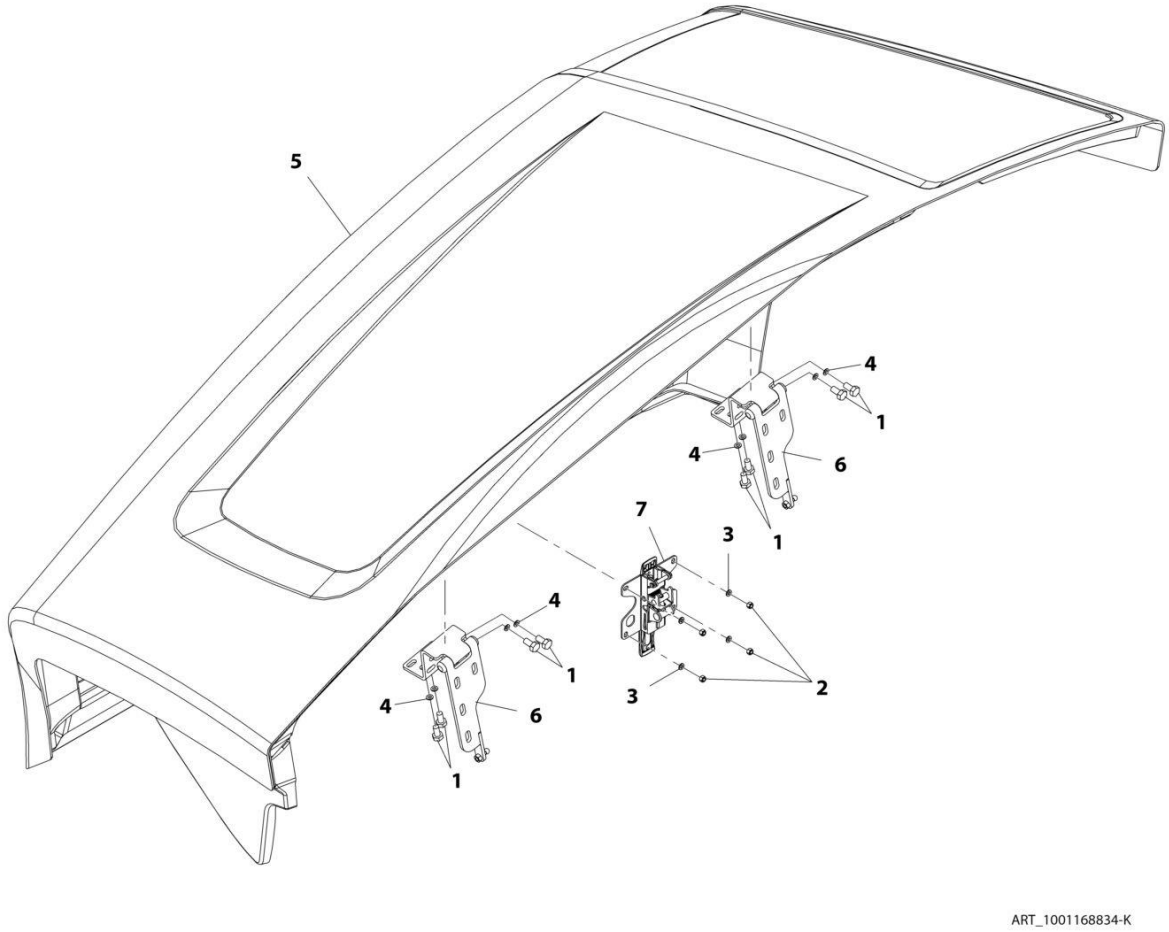


FIGURE 1-18. HOOD ASSEMBLY (Prior to SN 0160079247)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168834	NLA	Hood Assembly (no longer available, use items 1 thru 7 for service or 1001235963 for replacement)	K
1	0761010	8	Bolt, M10X20	
2	3290605	4	Nut, Lock M6X1	
3	4811700	4	Washer, M6	
4	4812000	8	Washer, M10	
5	1001166698	1	Hood	
6	1001209387	2	Hinge, Hood	
7	1001132168	1	Latch, Hood	

FIGURE 1-19. HOOD ASSEMBLY (SN 0160079247 to Present)

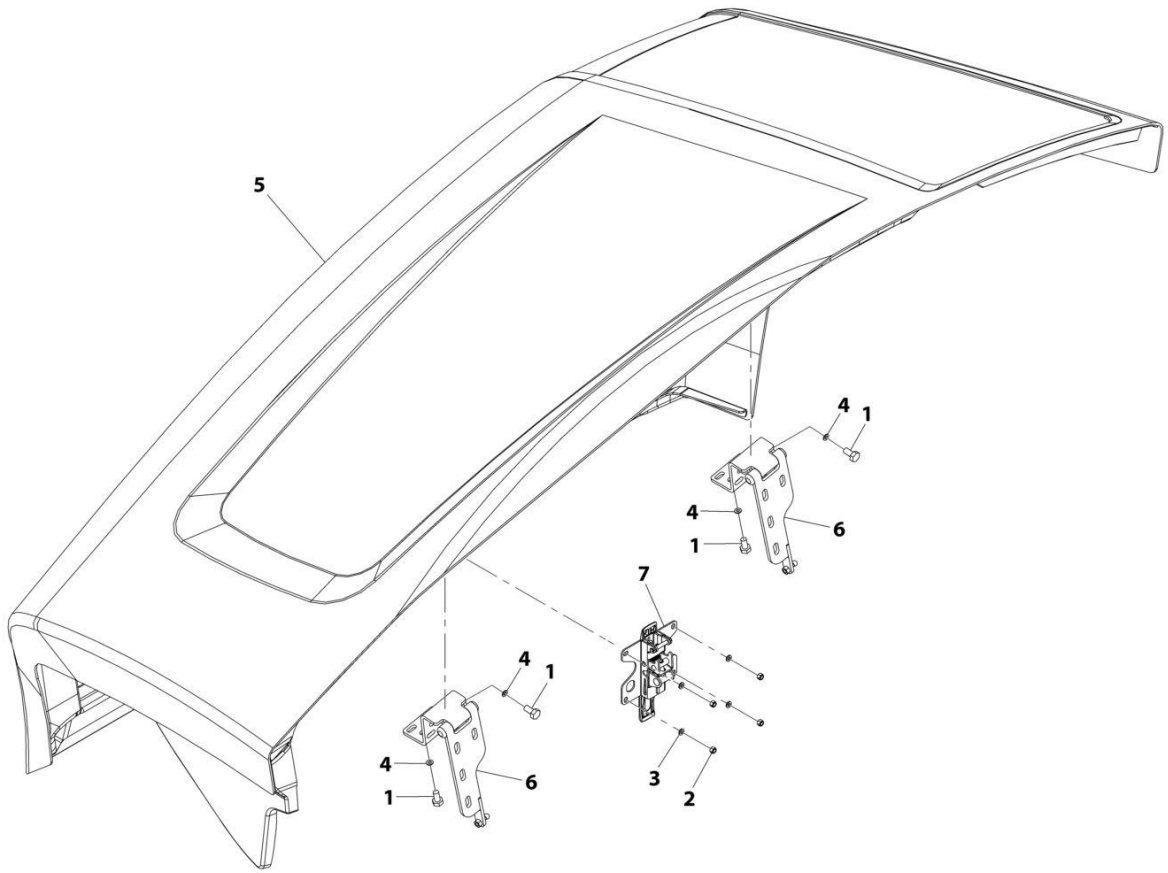


FIGURE 1-19. HOOD ASSEMBLY (SN 0160079247 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001235963	Ref	Hood Assembly	B
1	0761010	8	Bolt, M10X20	
2	3290605	4	Nut, Lock M6X1	
3	4811700	4	Washer, M6	
4	4812000	8	Washer, M10	
5	1001234455	1	Hood	
6	1001209387	2	Hinge, Hood	
7	1001132168	1	Latch, Hood	

FIGURE 1-20. HYDRAULIC TANK INSTALLATION

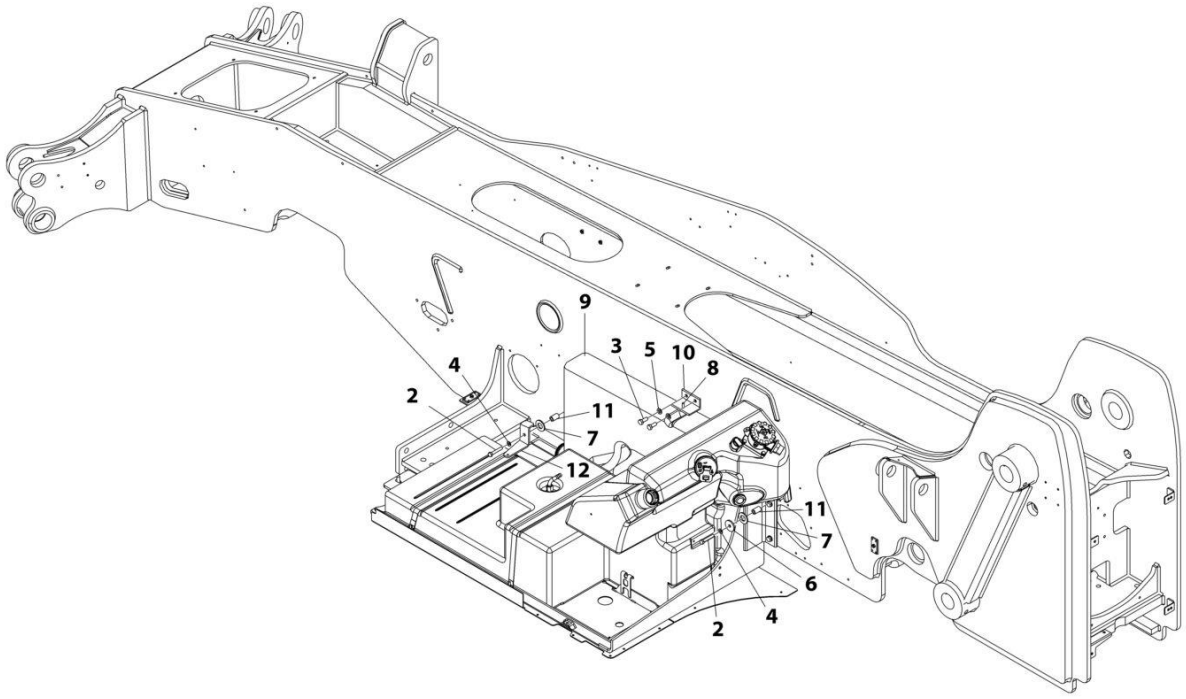


FIGURE 1-20. HYDRAULIC TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171154	Ref	Hydraulic Tank Installation	E
2	0701020	2	Bolt, M10X60	
3	0761214	2	Bolt, M12X30	
4	4812000	2	Washer, M10	
5	4812100	2	Washer, M12	
6	1001172147	1	Washer, M10	
7	1001172146	2	Washer, Rubber	
8	1001008575	1	Bumper, Conical	
9	1001163067	1	Tank, Hydraulic (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
10	1001169461	1	Bracket	
11	1001171179	2	Spacer	
12	1001210707	1	Bracket	

FIGURE 1-21. MIRROR INSTALLATION

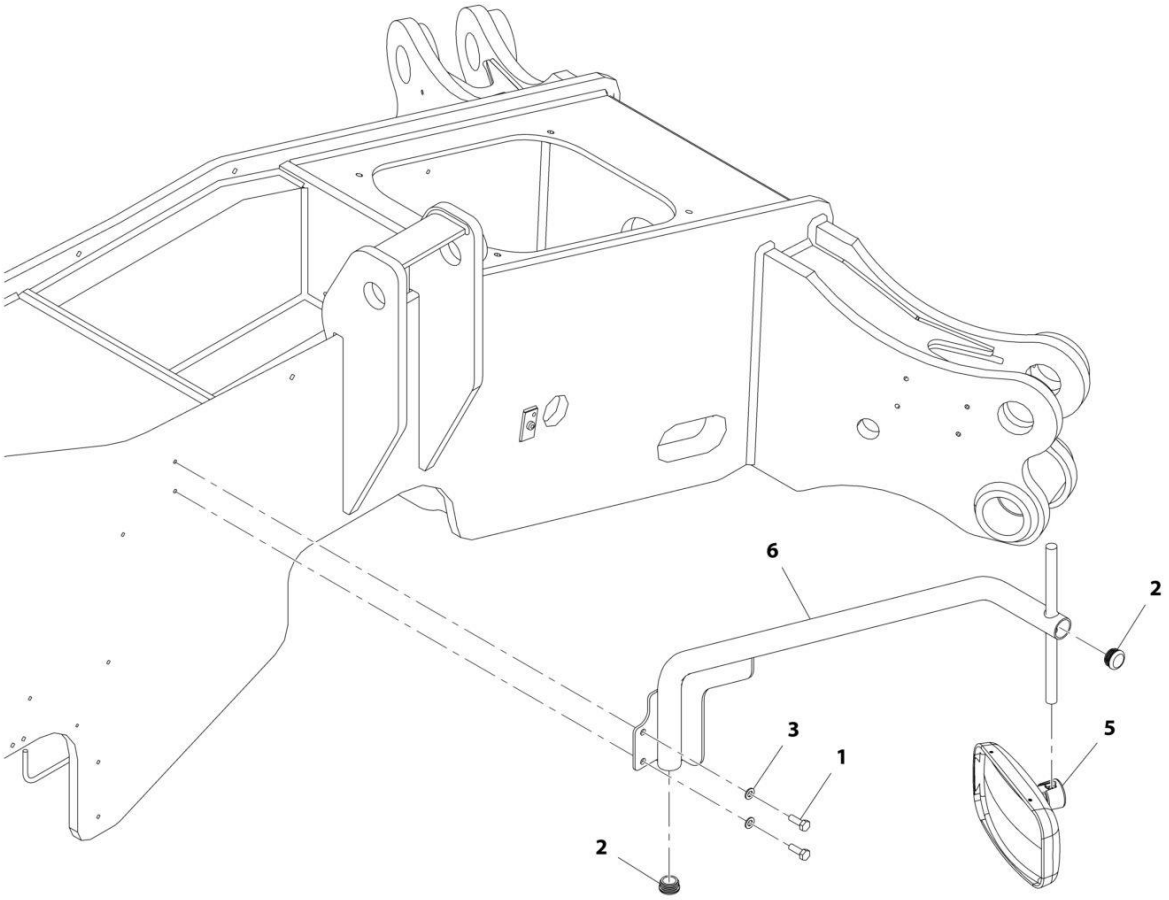


FIGURE 1-21. MIRROR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160255	Ref	Mirror Installation	D
1	0701014	2	Bolt, M10X30 Grade 8	
2	3520186	2	Plug	
3	4812000	2	Washer, M10	
5	1001191635	1	Mirror, Convex	
6	1001191603	1	Bracket	

FIGURE 1-22. OUTRIGGERS INSTALLATION

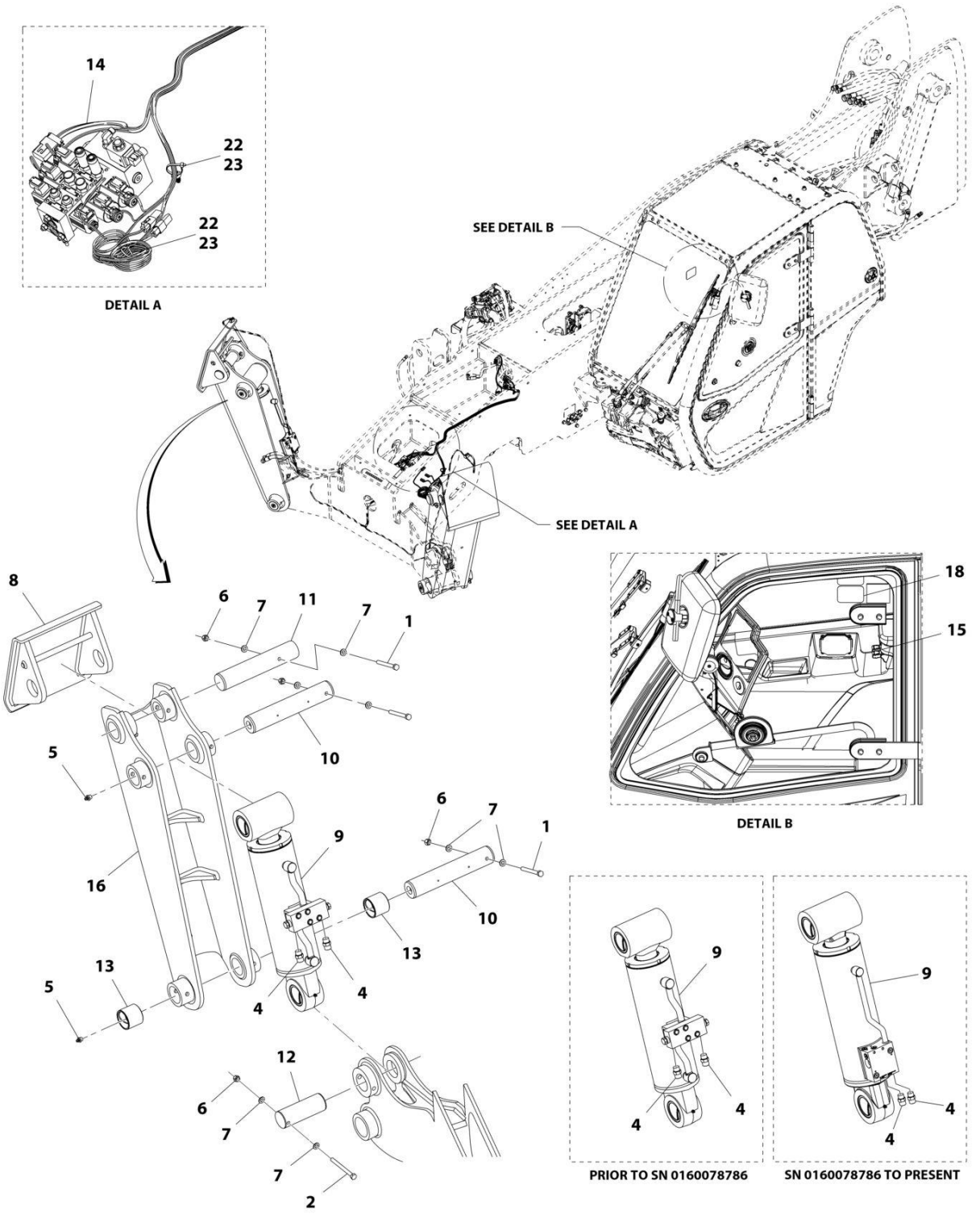


FIGURE 1-22. OUTRIGGERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168644	Ref	Outriggers Installation (1043,642)	I
1	0701229	6	Bolt, M12X120	
2	0701230	2	Bolt, M12X130	
4	2110808	4	Fitting, Straight ORFS	
5	2160016	4	Fitting, Grease	
6	3291205	8	Nut, Lock M12X1.75 Grade 8	
7	4812100	16	Washer, M12	
8	1001161564	2	Weldment, Outrigger Pad	
9	1001213065	2	Outrigger Cylinder (See OUTRIGGER CYLINDER for Breakdown)	
10	1001164436	4	Pin, Outrigger	
11	1001207292	2	Pin, Outrigger	
12	1001164454	2	Pin, Cylinder Base	
13	1001168281	4	Bearing, Outrigger	
14	1001172822	1	Harness, Outrigger (See ELECTRICAL SECTION for Breakdown)	
15	1001174478	1	Installation, Outrigger Switches (See CONTROLS SECTION for Breakdown)	
16	1001207291J	2	Bracket, Outrigger Leg Weldment	
18	1001181537	1	Decal, Outrigger Switched	
22	1001202986	2	Strap, Cable Tie	
23	1001008559	2	Strap	

FIGURE 1-23. OUTRIGGER CYLINDER INSTALLATION

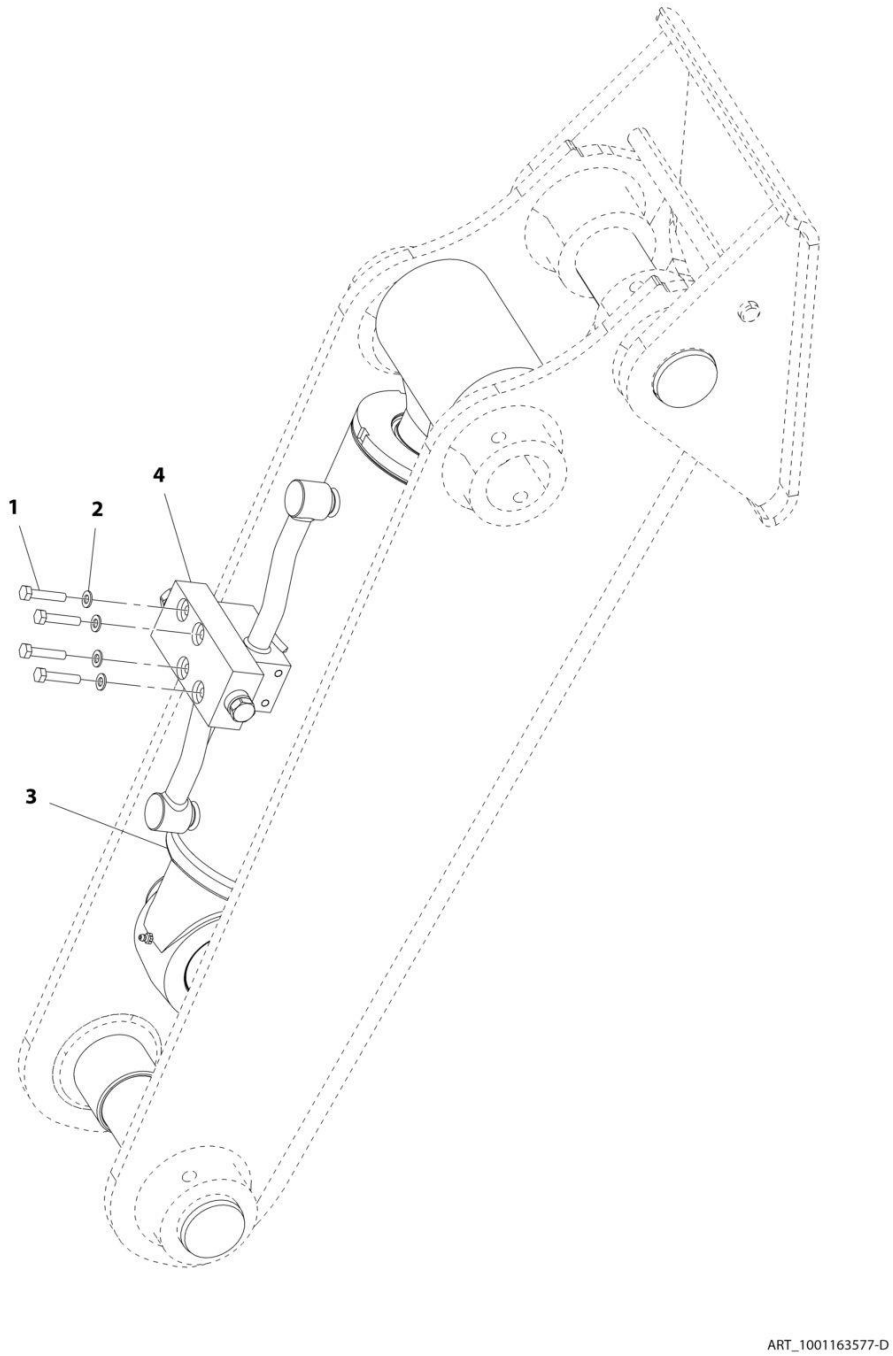


FIGURE 1-23. OUTRIGGER CYLINDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163577	Ref	Outrigger Cylinder Installation (642, 1043) (1043,642)	D
1	0700816	4	Bolt, M8X40	
2	4811900	4	Washer, M8	
3	1001163040	1	Cylinder, Outrigger (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
4	1001184205	1	Valve	

FIGURE 1-24. TANK INSTALLATION

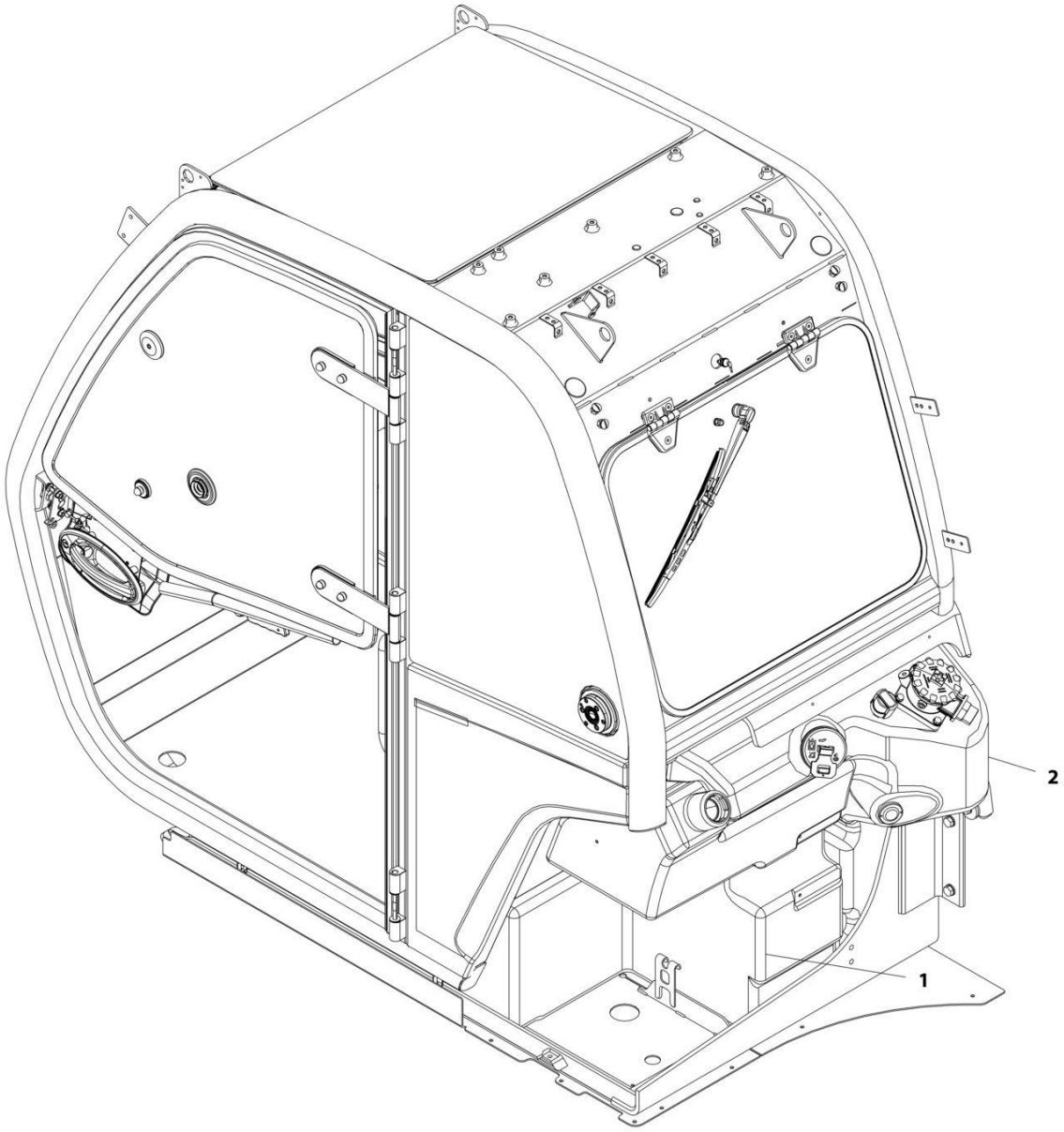


FIGURE 1-24. TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160735	Ref	Tank Installation	A
1	1001171153	1	Installation, Fuel Tank (See Separate Breakdown in this Section)	
2	1001171154	1	Installation, Hydraulic Tank (See Separate Breakdown in this Section)	

SECTION 2 - BOOM

FIGURE 2-1. BOOM ASSEMBLY

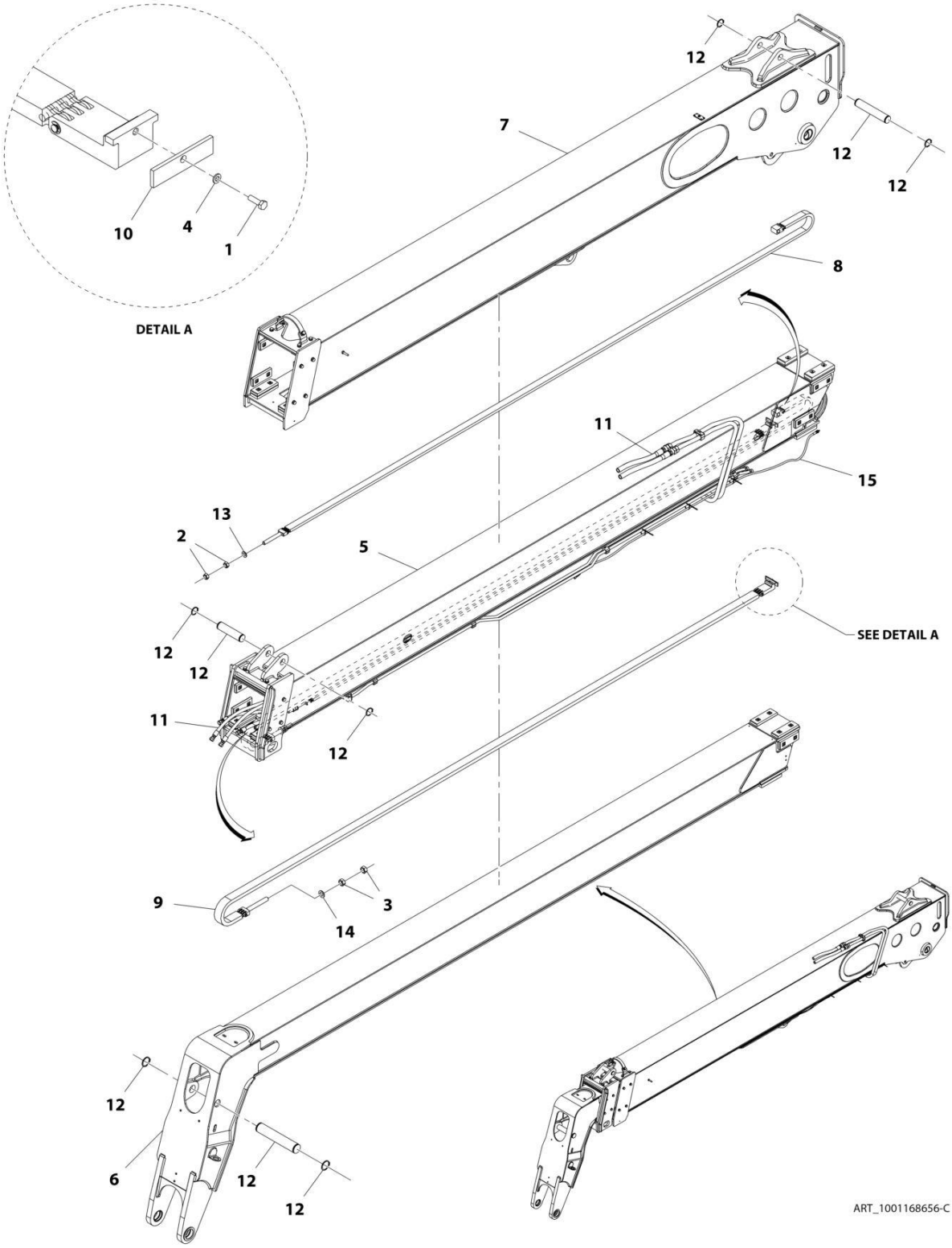


FIGURE 2-1. BOOM ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168656	1	Boom Assembly	C
1	0700610	1	Bolt, M6X20	
2	3332011	2	Nut, M20X2.5	
3	3332411	2	Nut, M24X3	
4	4811700	1	Washer, M6	
5	1001168574	1	Assembly, Second Boom Section (See Separate Breakdown in this Section)	
6	1001168735	1	Assembly, Third Boom Section (See Separate Breakdown in this Section)	
7	1001168963	1	Assembly, First Boom Section (See Separate Breakdown in this Section)	
8	1001169278	Ref	Installation, Retract Chain (See Separate Breakdown in this Section)	
9	1001169326	Ref	Installation, Extend Chain (See Separate Breakdown in this Section)	
10	1001171451	1	Plate	
11	1001173470	Ref	Installation, Boom Hydraulic Tubes (See Separate Breakdown in Hydraulic Circuits Section)	
12	1001173542	Ref	Installation Pins (See Separate Breakdown in this Section)	
13	4812500	1	Washer, M20	
14	4812700	1	Washer, M24	
15	1001186859	1	Hose	

FIGURE 2-2. BOOM PINNING INSTALLATION

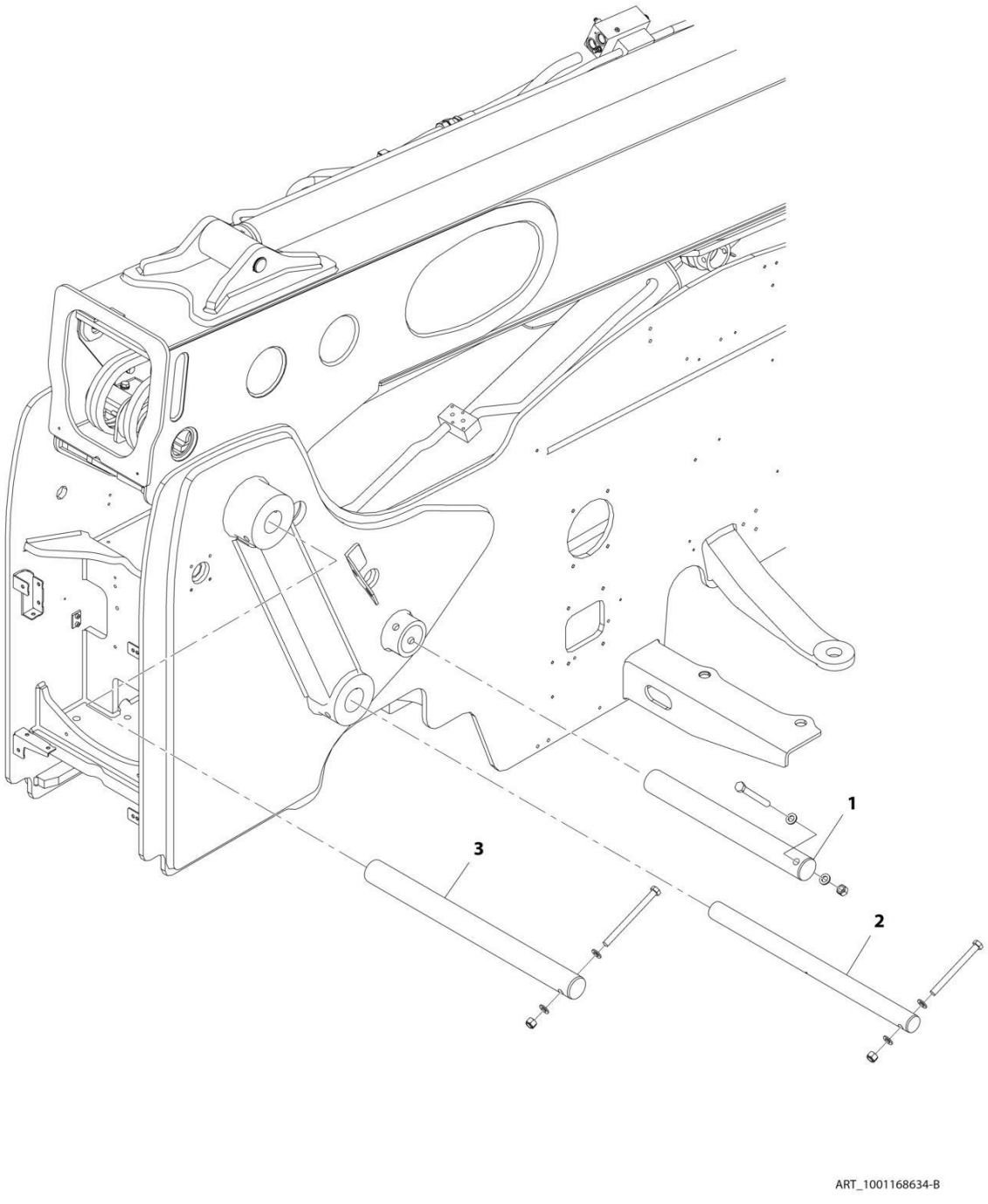


FIGURE 2-2. BOOM PINNING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168634	Ref	Boom Pinning Installation	C
1	1001173111	Ref	Installation, Lift Cylinder Pins (See Separate Breakdown in this Section)	
2	1001173114	Ref	Installation, Compensation Cylinder Pins (See Separate Breakdown in this Section)	
3	1001173117	Ref	Installation, Boom Pivot Pin (See Separate Breakdown in this Section)	

FIGURE 2-3. BOOM PIVOT PIN INSTALLATION

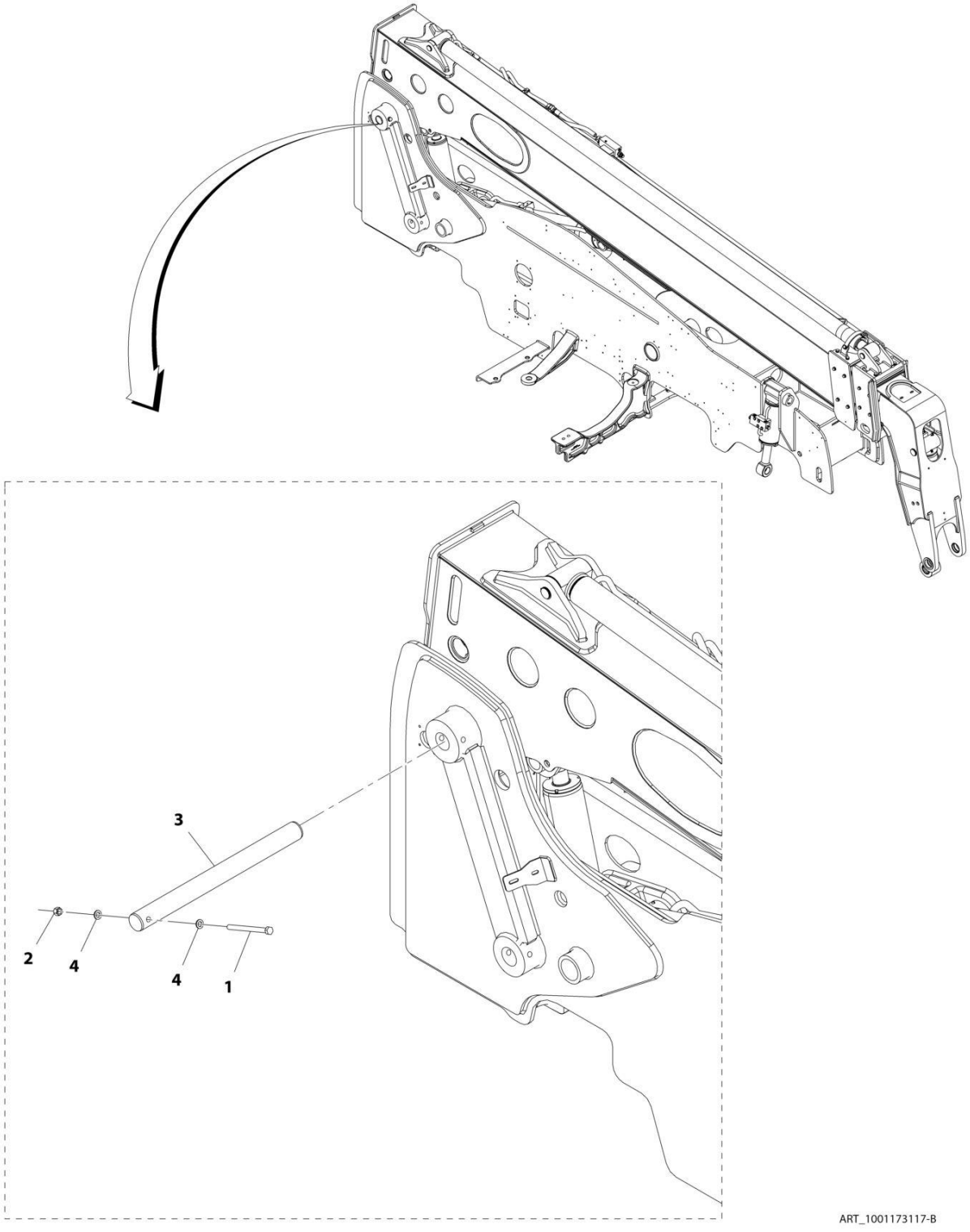


FIGURE 2-3. BOOM PIVOT PIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173117	Ref	Boom Pivot Pin Installation	C
1	1001091951	1	Bolt, M16X200	
2	3291605	1	Nut, Lock M16X2 Grade 8	
3	1001173118	1	Pin	
4	4812300	2	Washer, M16	

FIGURE 2-4. BOOM BRUSHES INSTALLATION

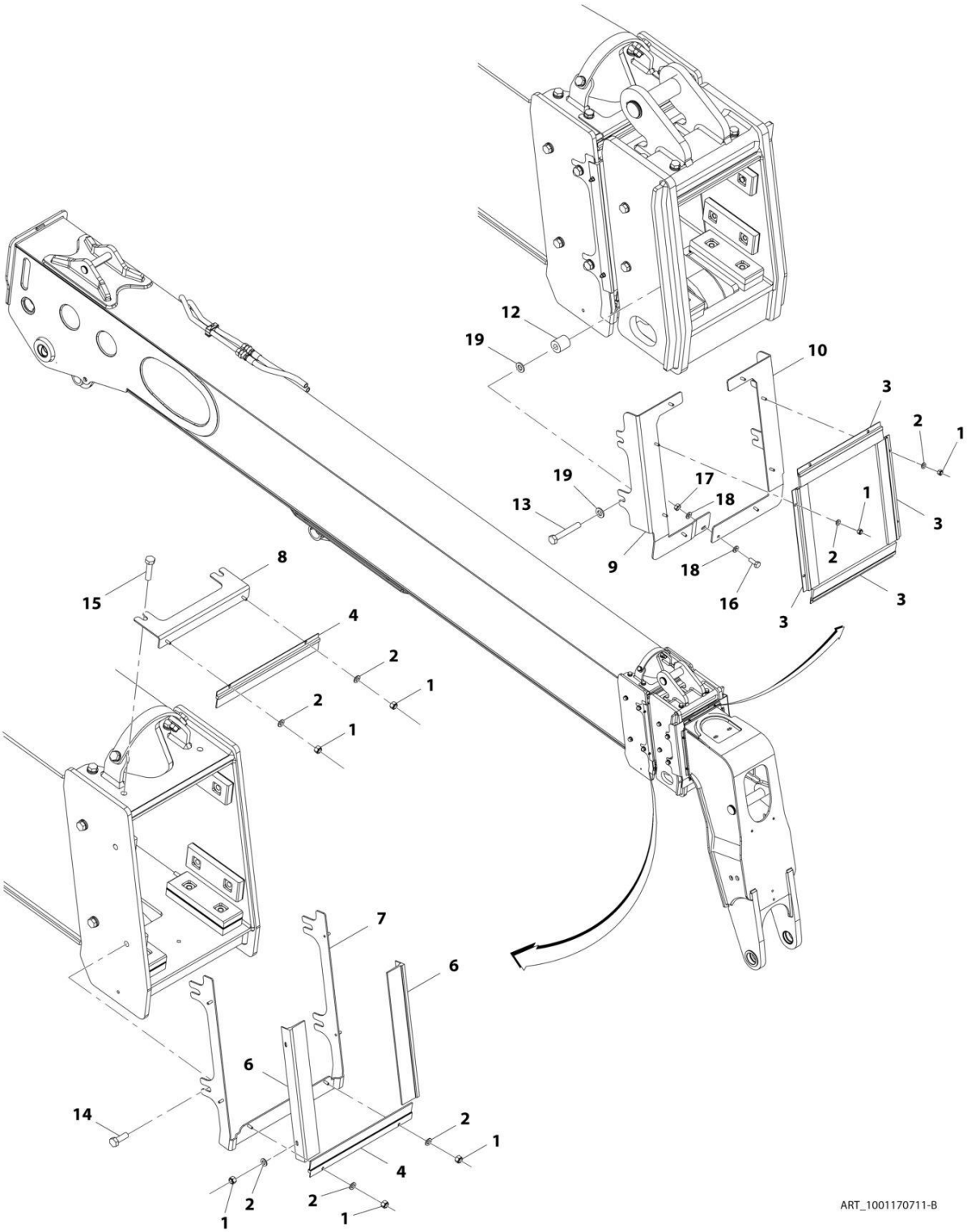


FIGURE 2-4. BOOM BRUSHES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170711	Ref	Boom Brushes Installation	B
1	3290505	16	Nut, Lock M5X0.8 Grade 8	
2	4811600	16	Washer, M5	
3	1001172995	4	Brush, Boom	
4	1001172997	2	Brush, Boom	
6	1001172999	2	Brush, Boom	
7	1001175485	1	Bracket, Boom Brush	
8	1001175486	1	Bracket, Boom Brush	
9	1001196931	1	Bracket, Boom Brush	
10	1001196929	1	Bracket, Boom Brush	
12	1001193577	4	Spacer	
13	0701224	4	Bolt, M12X80	
14	0711215	4	Bolt, M12X35 Grade 10.9	
15	0711218	2	Bolt, M12X50 Grade 10.9	
16	0760608	1	Bolt, M6X16	
17	3290601	1	Nut, M6X1	
18	4811700	2	Washer, M6	
19	1001125117	4	Washer, M12	

FIGURE 2-5. BOOM ANGLE INDICATOR INSTALLATION

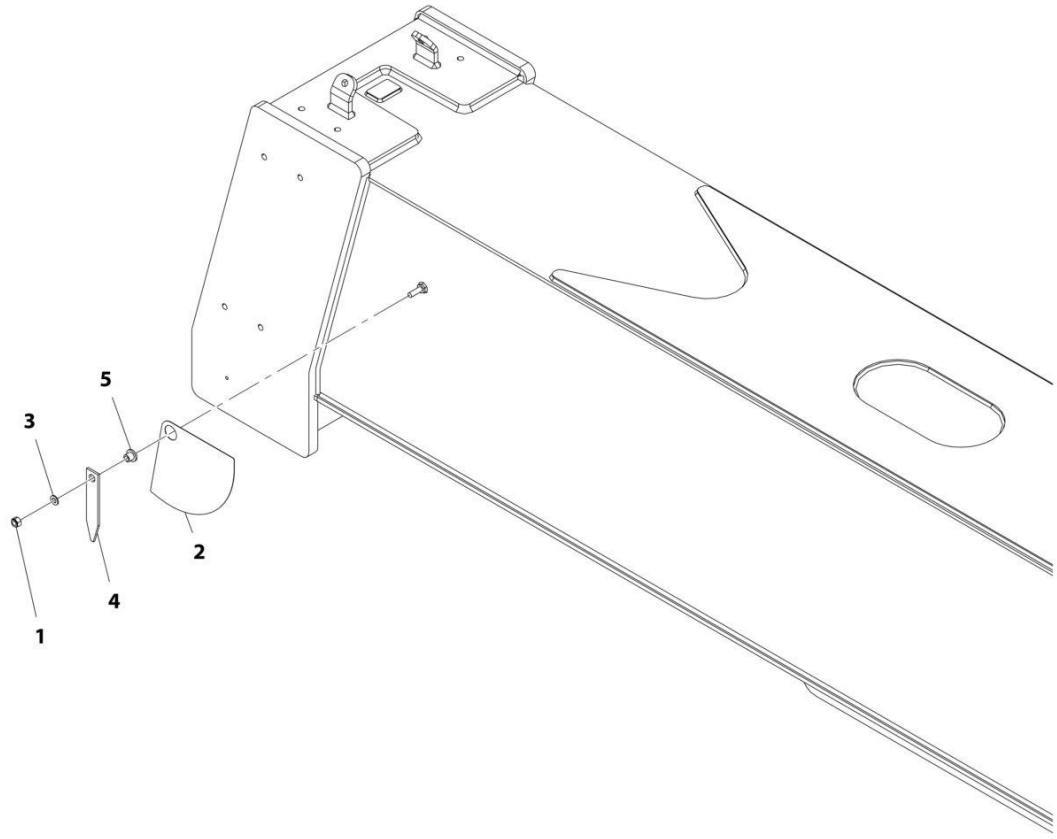


FIGURE 2-5. BOOM ANGLE INDICATOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167806	Ref	Boom Angle Indicator Installation	B
1	3291005	1	Nut, Lock M10X1.5 Grade 8	
2	4105262	1	Decal, Boom Angle Indicator	
3	4812000	1	Washer, M10	
4	1001098769	1	Plate	
5	1001171808	1	Spacer	

FIGURE 2-6. BOOM PIN INSTALLATION

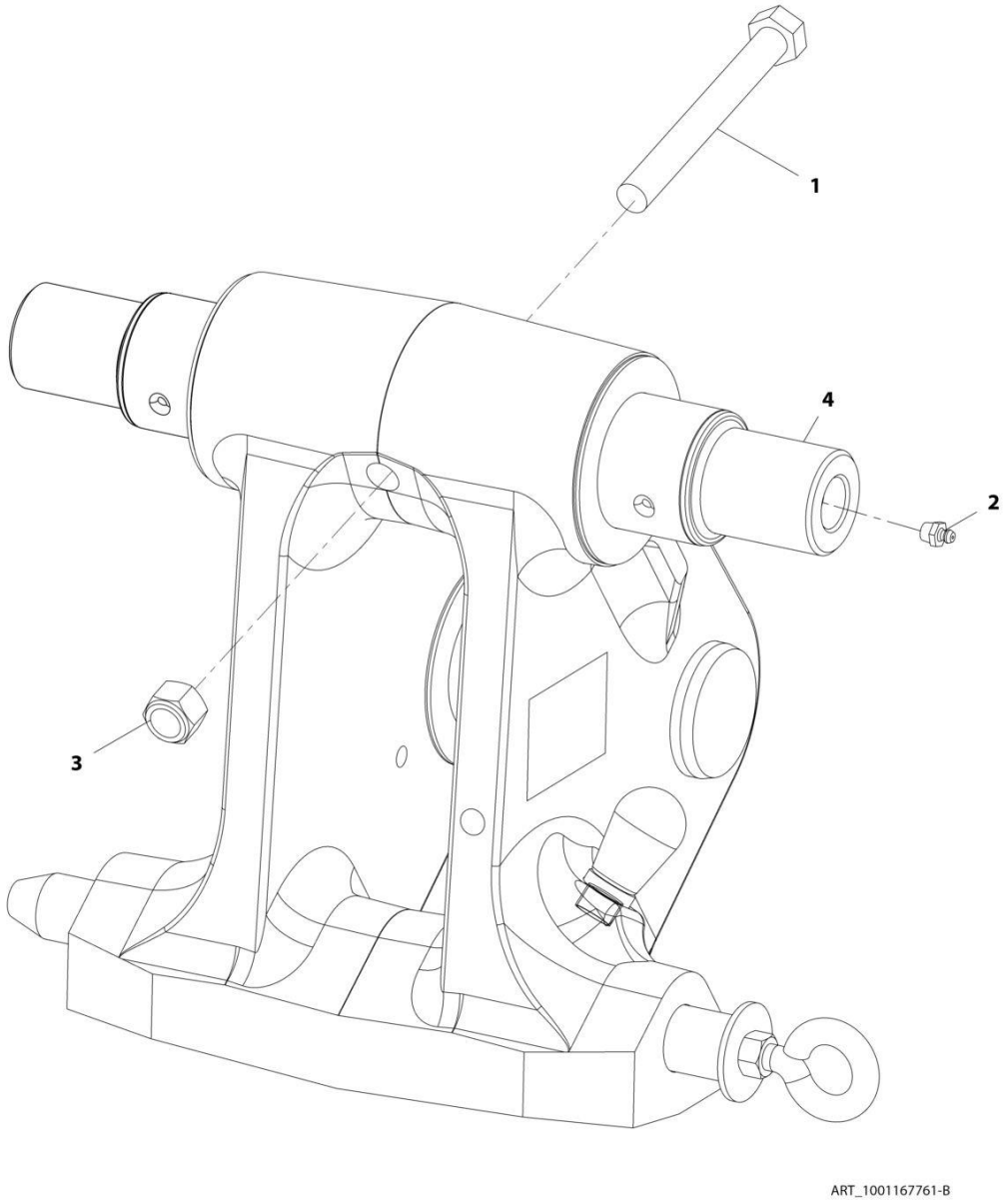


FIGURE 2-6. BOOM PIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167761	Ref	Boom Pin Installation	B
1	0711631	1	Bolt, M16X140	
2	2160016	2	Fitting, Straight	
3	3291605	1	Nut, Lock M16X2	
4	1001164871	1	Pin	

FIGURE 2-7. COMPENSATION CYLINDER PINS INSTALLATION

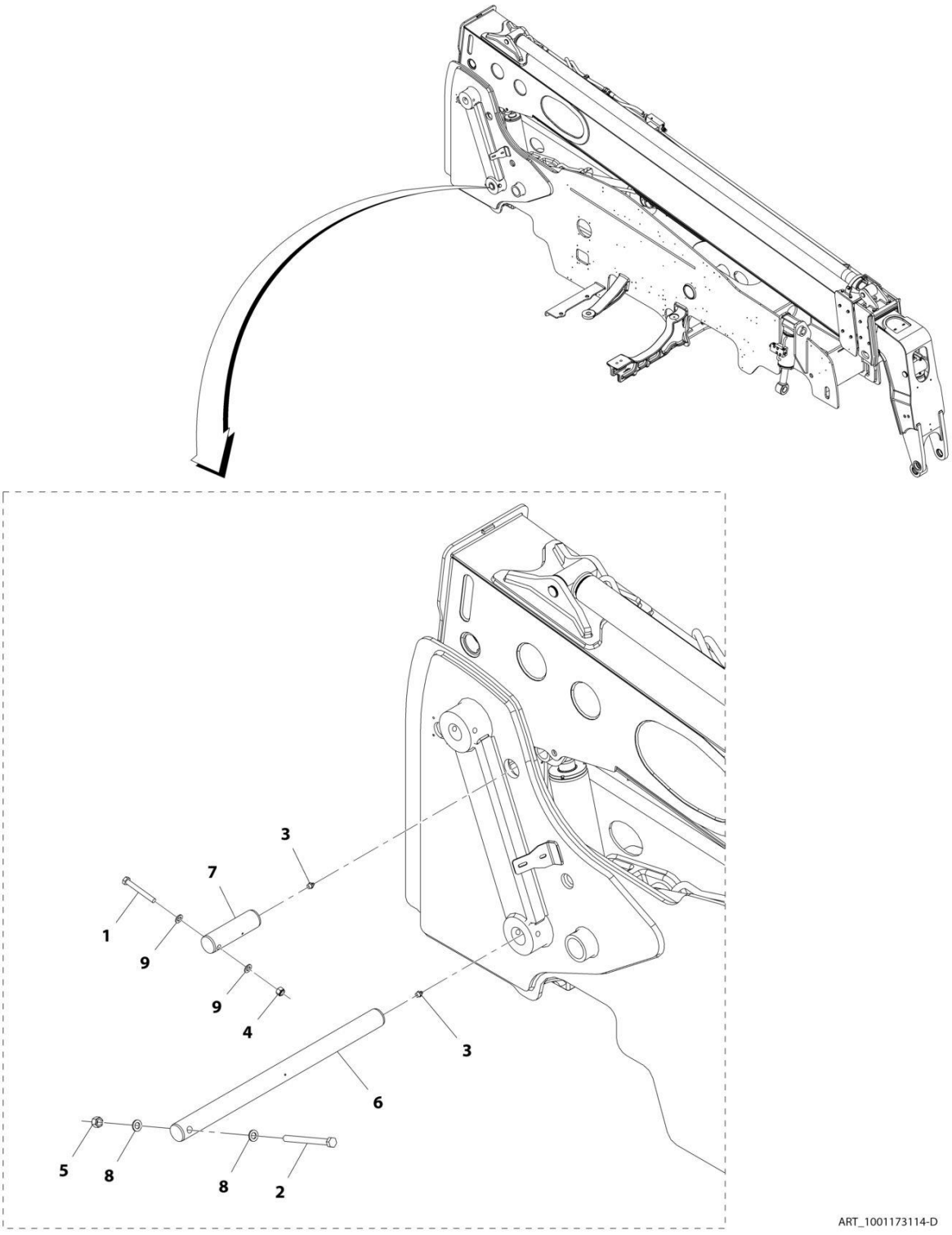


FIGURE 2-7. COMPENSATION CYLINDER PINS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173114	Ref	Compensation Cylinder Pins Installation	D
1	0711227	1	Bolt, M12X100 Grade 10.9	
2	0711635	1	Bolt, M16X180 Grade 10.9	
3	2160016	2	Fitting, Grease	
4	3291205	1	Nut, Lock M12X1.75 Grade 8	
5	3291605	1	Nut, Lock M16X2 Grade 8	
6	1001173115	1	Pin, Cylinder Base	
7	1001173116	1	Pin, Cylinder End	
8	4812300	2	Washer, M16	
9	4812100	2	Washer, M12	

FIGURE 2-8. CHAIN SHEAVE ASSEMBLY

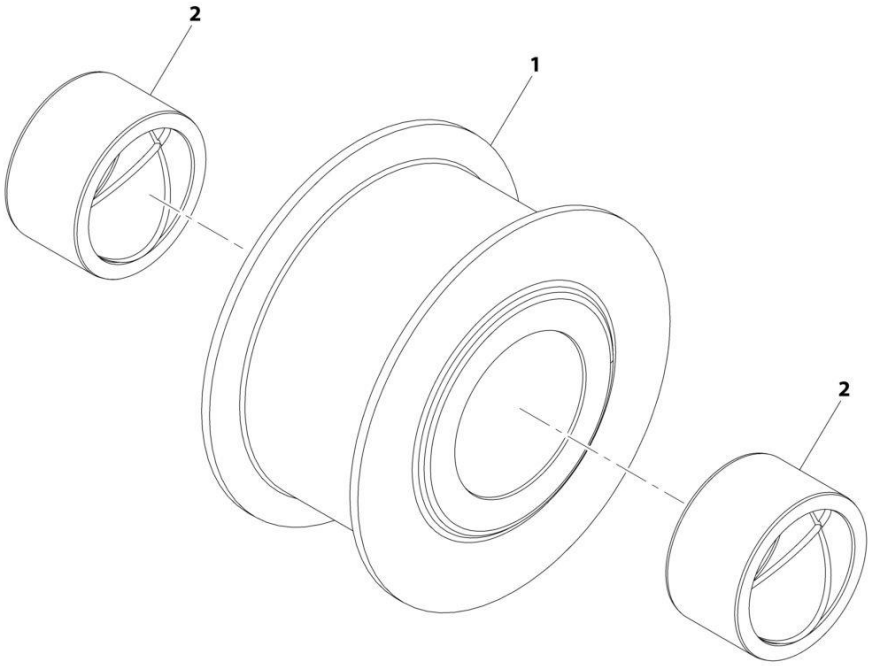


FIGURE 2-8. CHAIN SHEAVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101867	Ref	Chain Sheave Assembly	B
1	7114032	1	Sheave, Chain	
2	7117502	2	Bushing, Sheave Chain	

FIGURE 2-9. EXTEND CHAIN INSTALLATION

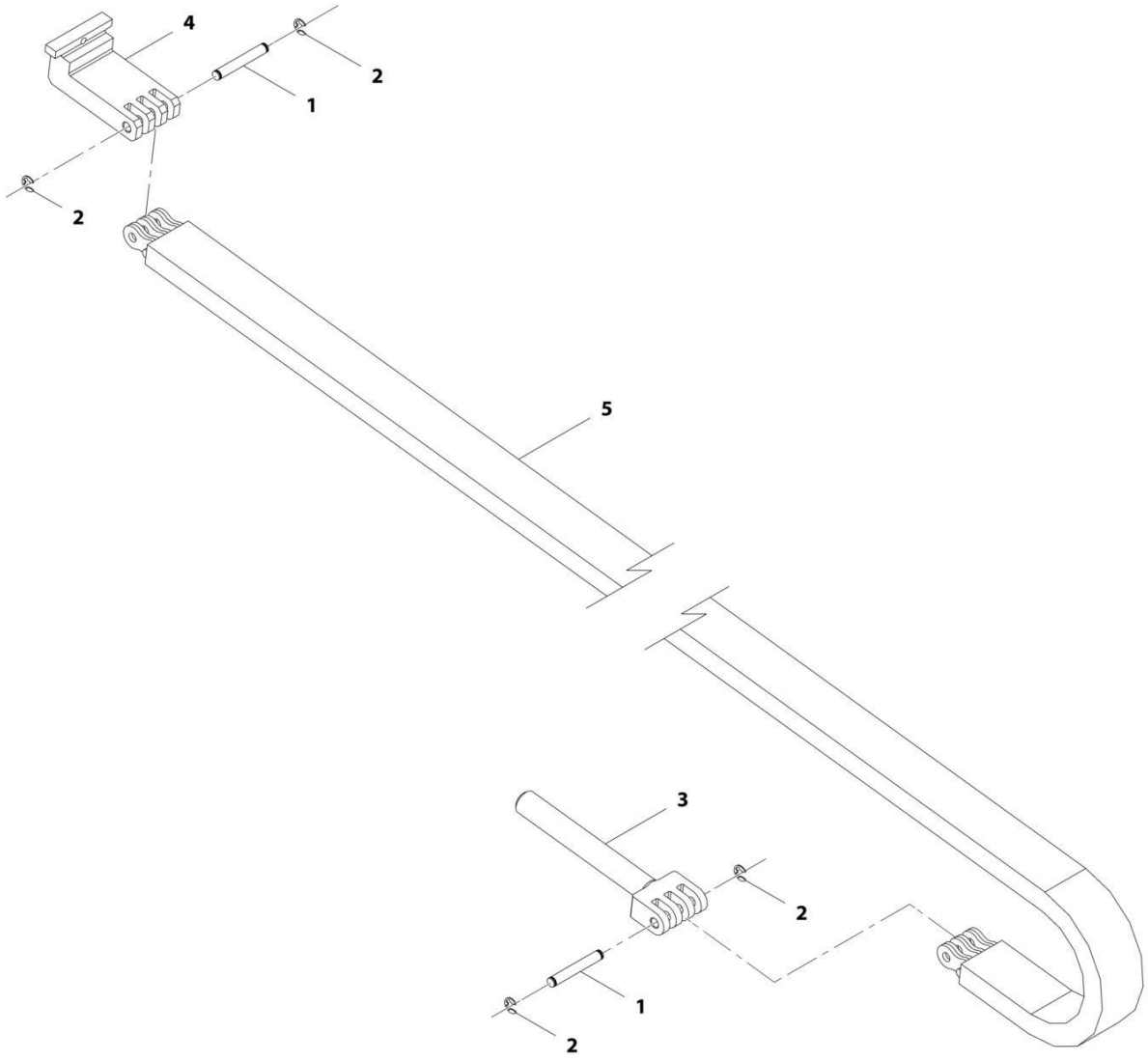


FIGURE 2-9. EXTEND CHAIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169326	Ref	Extend Chain Installation	A
1	1001163841	2	Pin, Clevis	
2	1001164039	4	Ring, External M8	
3	1001165590	1	Clevis, Chain	
4	1001165739	1	Clevis, Chain	
5	1001169327	1	Chain, Extend	

FIGURE 2-10. FIRST BOOM SECTION ASSEMBLY

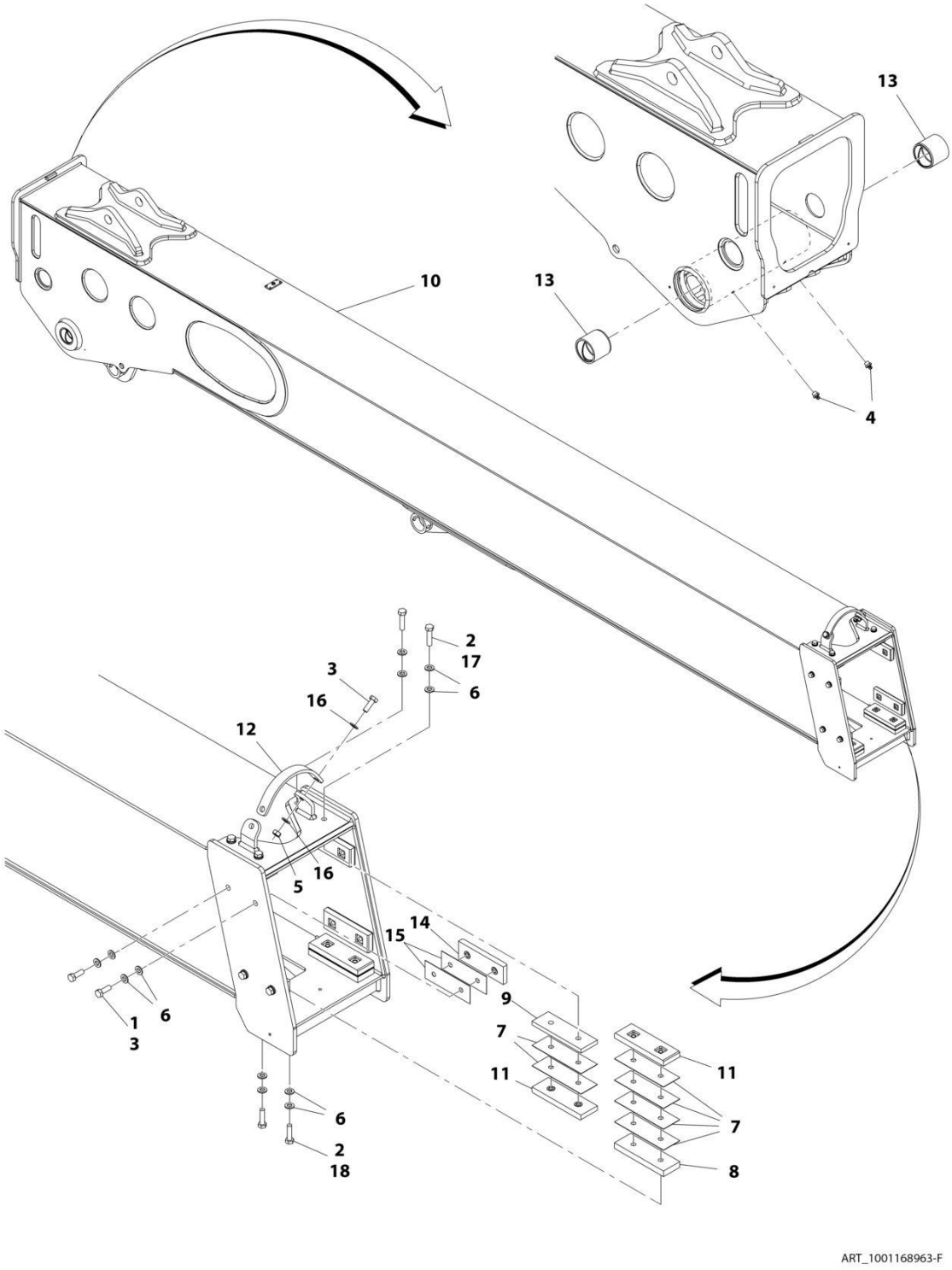


FIGURE 2-10. FIRST BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168963	Ref	First Boom Section Assembly	F
1	0711214	AR	Bolt, M12X30	
2	0711217	4	Bolt, M12X45	
3	0711215	10	Bolt, M12X35	
4	2160016	2	Fitting, Grease	
5	3291201	2	Nut, M12X1.75 Grade 8	
6	1001125117	AR	Washer, M12	
7	1001163034	AR	Plate	
8	1001163038	2	Plate	
9	1001163136	2	Plate	
10	1001168964J	1	Boom, First	
11	1001165171	4	Pad	
12	1001168987	1	Strap	
13	1001188246	2	Bearing, Boom Pivot	
14	1001165172	4	Pad	
15	1001165367	AR	Plate	
16	4812100	4	Washer, M12	
17	0711218	4	Bolt, 12X50 Grade 10.9	
18	0711216	AR	Bolt, M12X40 Grade 10.9	

FIGURE 2-11. HOSE BRACKET INSTALLATION

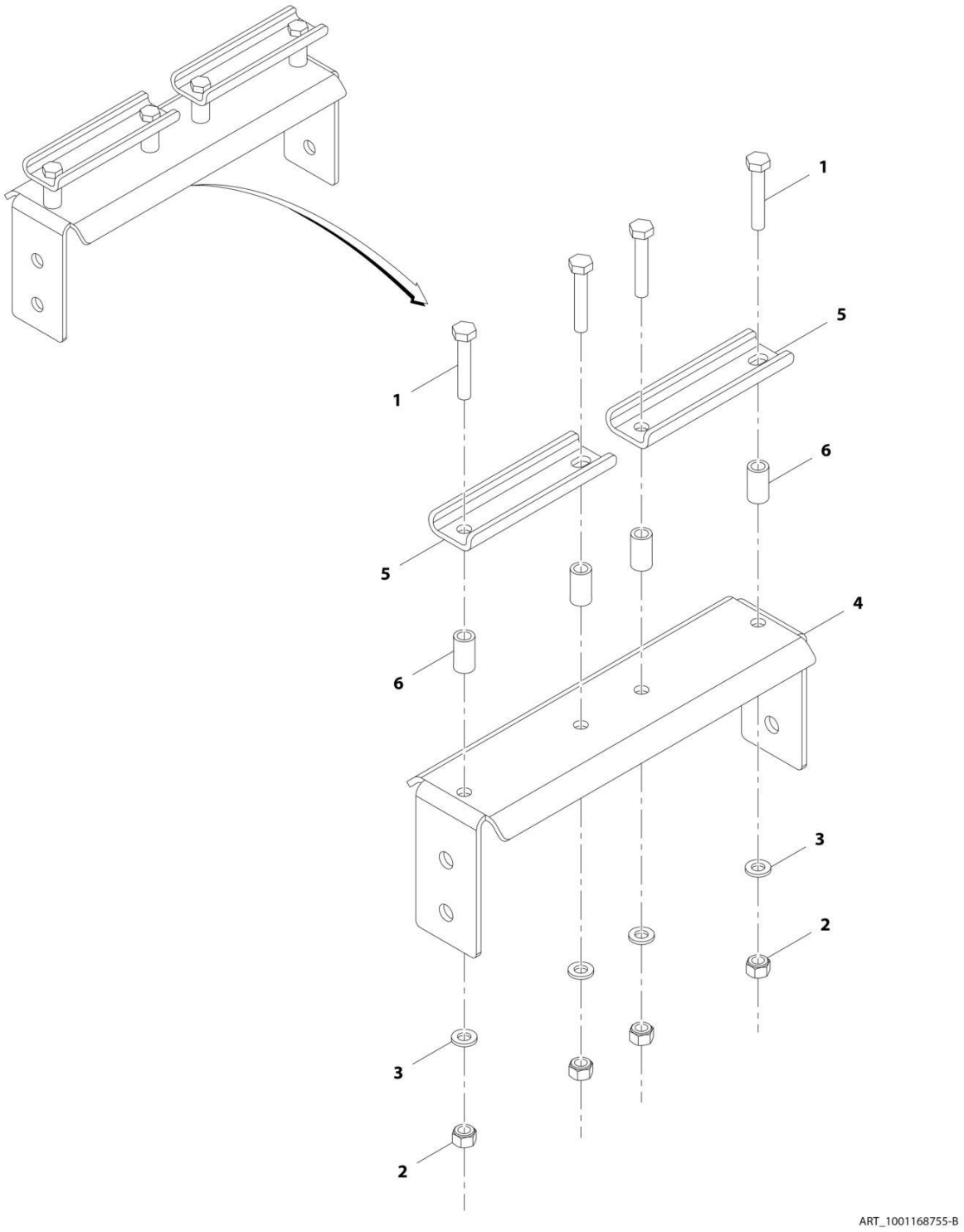


FIGURE 2-11. HOSE BRACKET INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168755	Ref	Hose Bracket Installation	B
1	0760615	4	Bolt, M6X35	
2	3290605	4	Nut, Lock M6X1 Grade 8	
3	4811700	4	Washer, M6	
4	1001168757	1	Bracket	
5	1001169209	2	Plate	
6	1001169214	4	Spacer	

FIGURE 2-12. HYDRAULIC QUICK COUPLER INSTALLATION

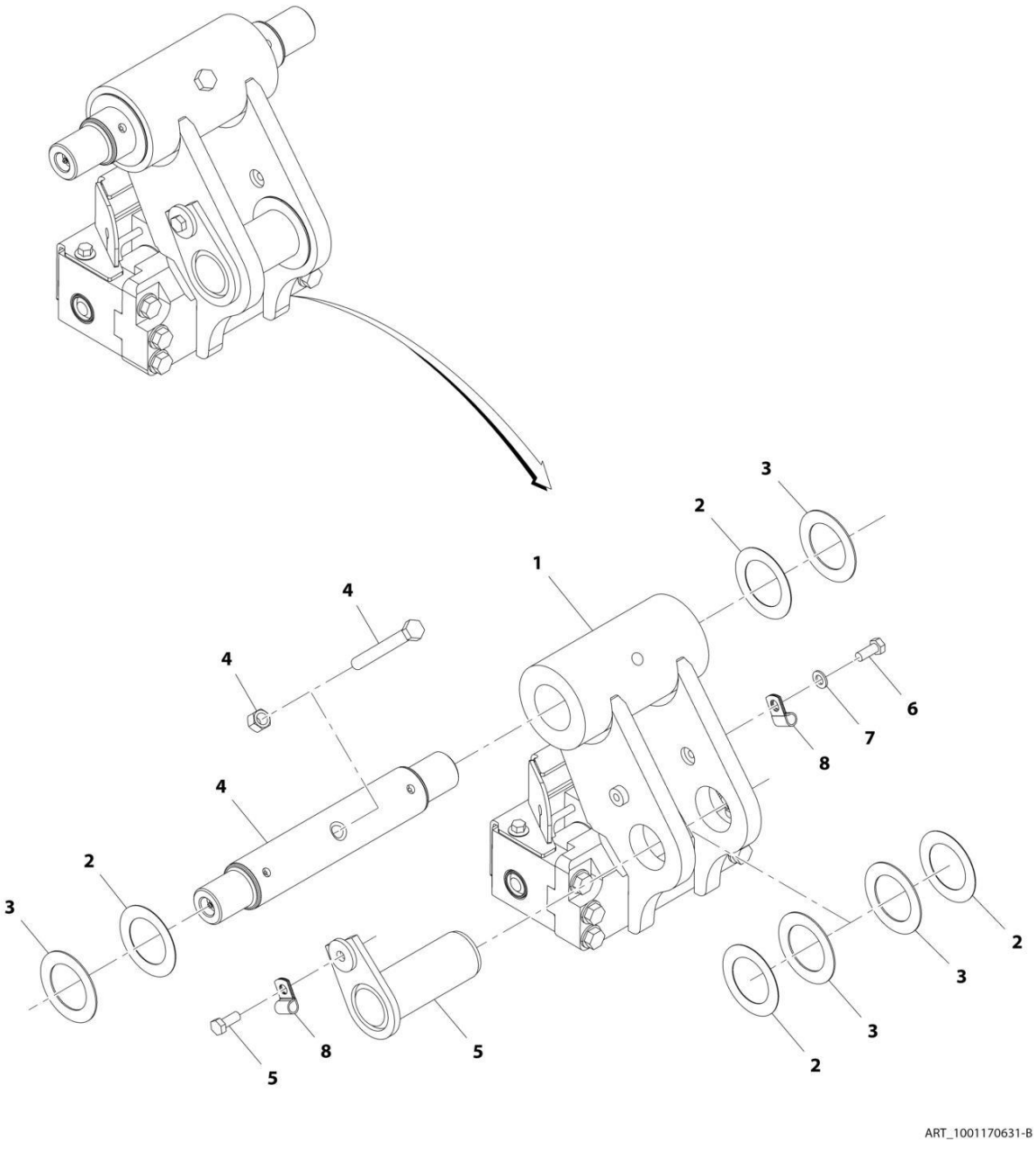


FIGURE 2-12. HYDRAULIC QUICK COUPLER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170631	Ref	Hydraulic Quick Coupler Installation	B
1	1001172134	1	Assembly, Hydraulic Quick Coupler (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
2	1001164884	AR	Shim	
3	1001164885	AR	Shim	
4	1001167761	Ref	Installation, Boom Pin (See Separate Breakdown in this Section)	
5	1001167762	Ref	Installation, Tilt Cylinder Pin (See Separate Breakdown in this Section)	
6	0761214	1	Capscrew, M12X30	
7	4812100	1	Washer, M12	
8	1001080996	2	Clamp	

FIGURE 2-13. LIFT CYLINDER PINS INSTALLATION

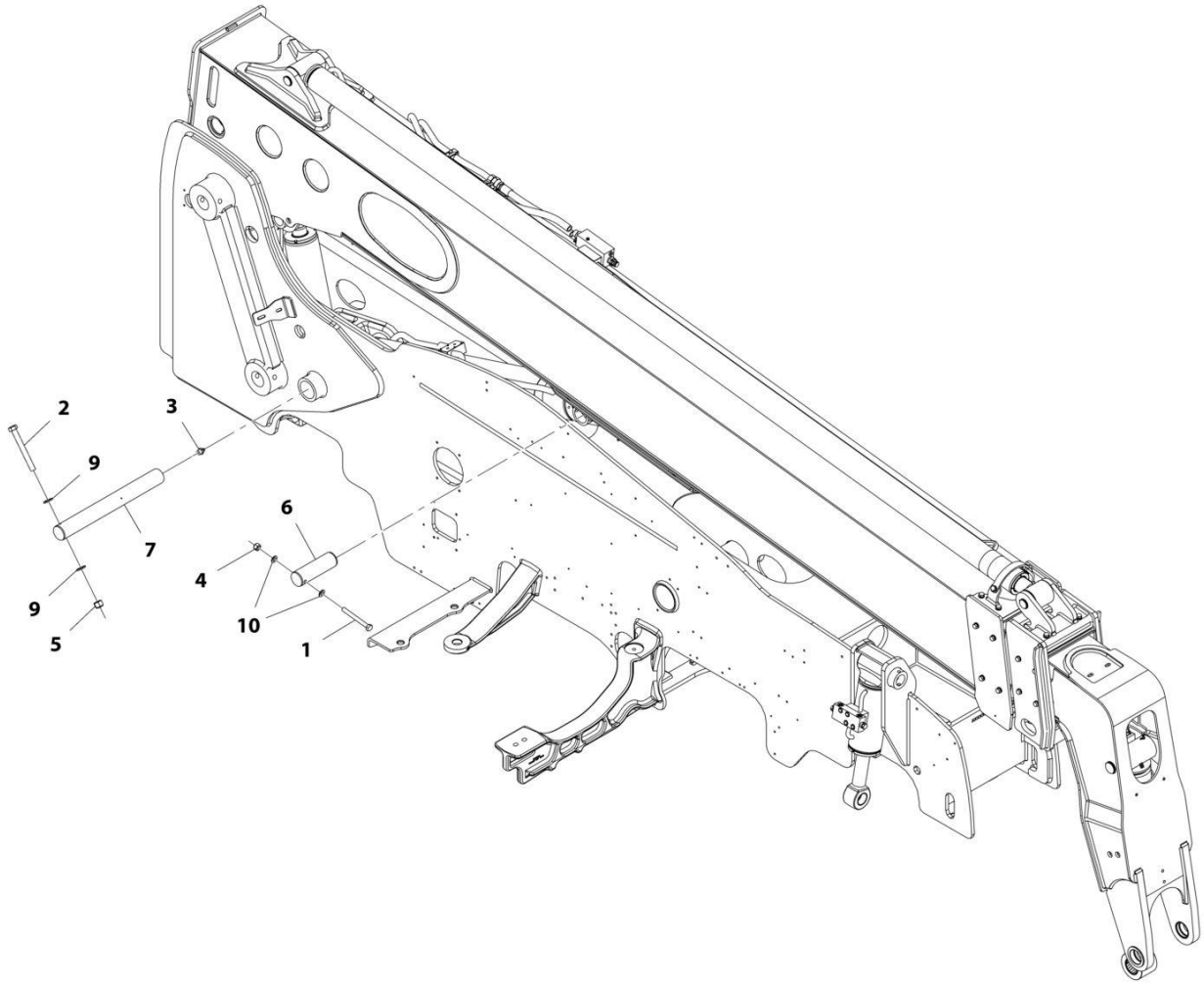


FIGURE 2-13. LIFT CYLINDER PINS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173111	Ref	Lift Cylinder Pins Installation	F
1	0711228	1	Bolt, M12X110	
2	0711631	1	Bolt, M16X140	
3	2160016	1	Fitting, Grease	
4	3291205	1	Nut, Lock M12X1.75 Grade 8	
5	3291605	1	Nut, Lock M16X2 Grade 8	
6	1001205336	1	Pin, Cylinder	
7	1001173113	1	Pin, Cylinder	
9	4812300	2	Washer, M16	
10	4812100	2	Washer, M12	

FIGURE 2-14. MANUAL QUICK COUPLER INSTALLATION

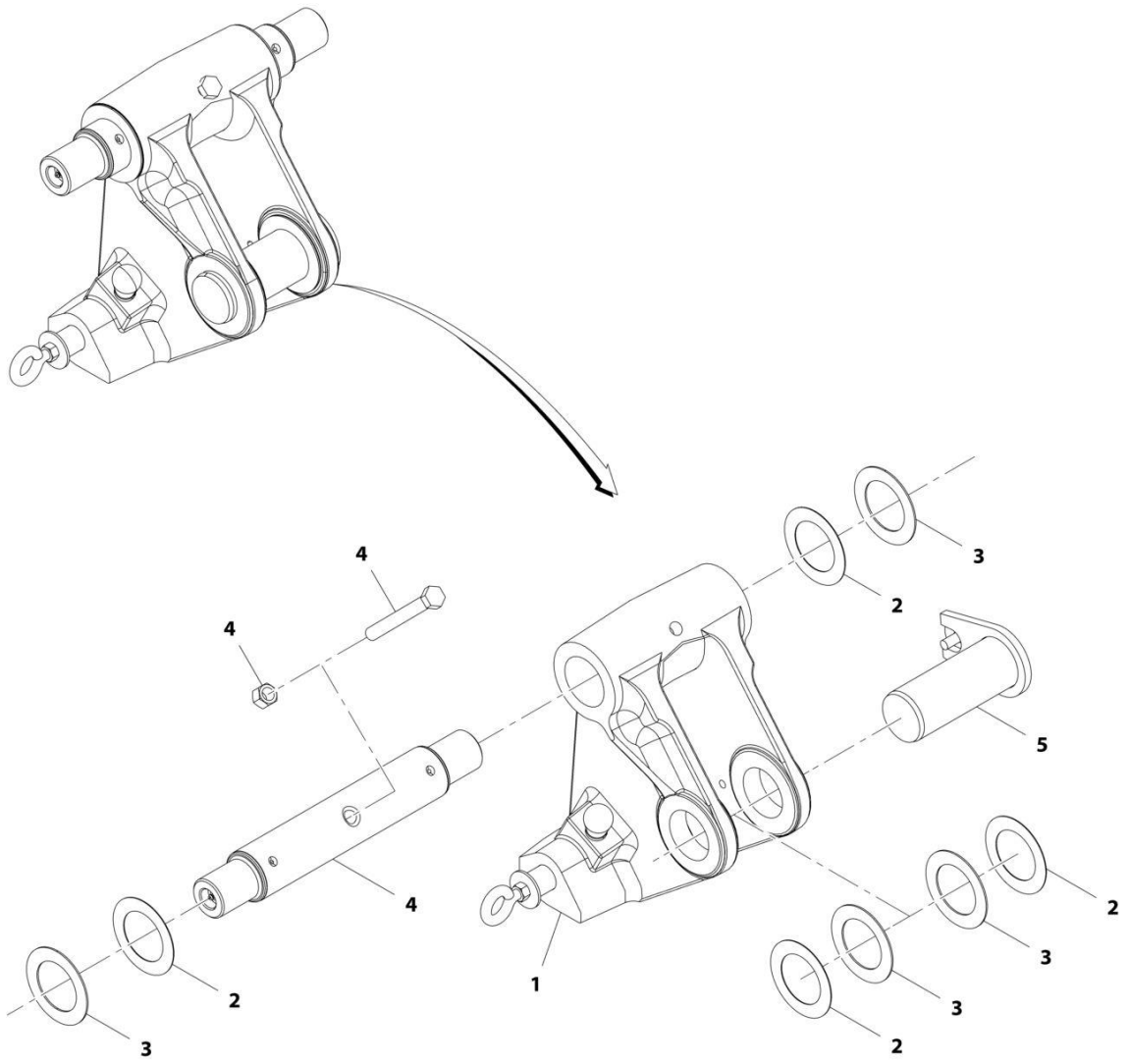


FIGURE 2-14. MANUAL QUICK COUPLER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170628	Ref	Manual Quick Coupler Installation	A
1	1001171764	1	Coupling, Quick Connect (See Separate Breakdown in this Section)	
2	1001164884	AR	Shim	
3	1001164885	AR	Shim	
4	1001167761	Ref	Installation, Boom Pin (See Separate Breakdown in this Section)	
5	1001167762	Ref	Installation, Tilt Cylinder Pin (See Separate Breakdown in this Section)	

FIGURE 2-15. PINS INSTALLATION

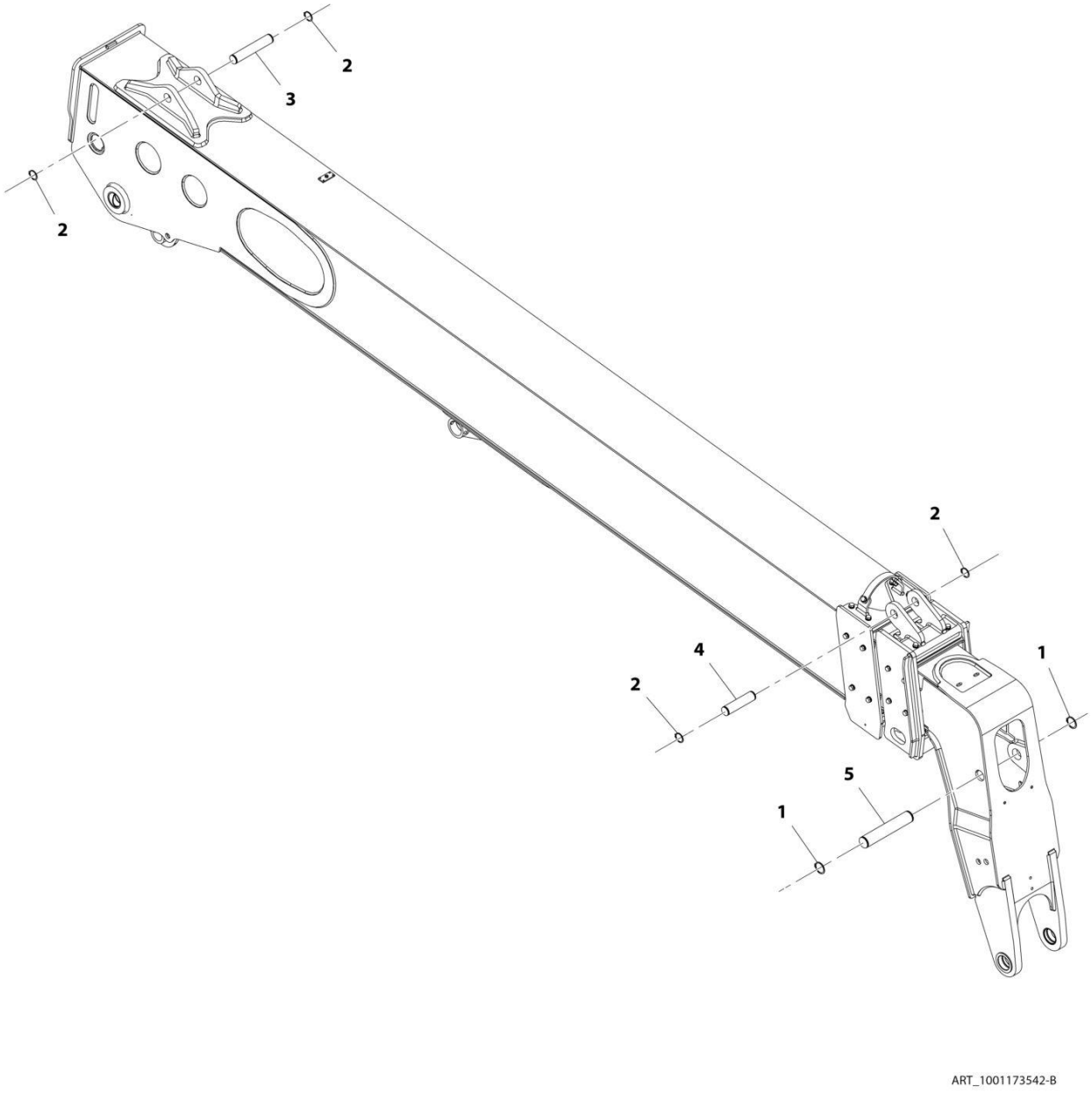


FIGURE 2-15. PINS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173542	Ref	Pins Installation	B
1	3760493	2	Ring, Retaining M5	
2	3760491	4	Ring, Retaining M40	
3	1001173543	1	Pin	
4	1001173544	1	Pin	
5	1001174726	1	Pin, Tilt Cylinder	

FIGURE 2-16. QUICK COUPLER ASSEMBLY

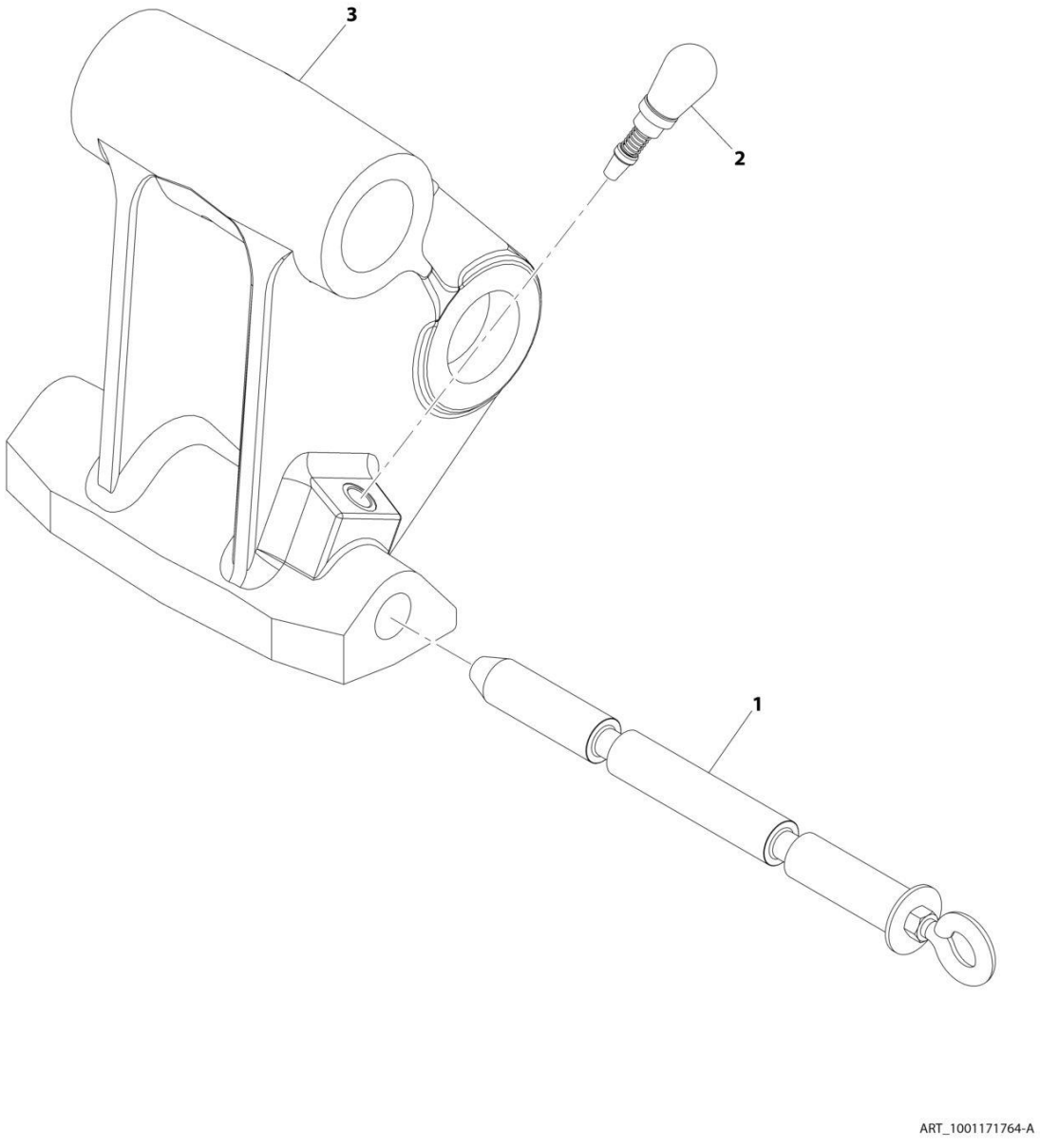


FIGURE 2-16. QUICK COUPLER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171764	Ref	Quick Coupler Assembly	A
1	1001105441	1	Pin	
2	1001143692	1	Pin, Poppin	
3	1001164567	1	Coupling, Quick Connect	

FIGURE 2-17. RETRACT CHAIN INSTALLATION

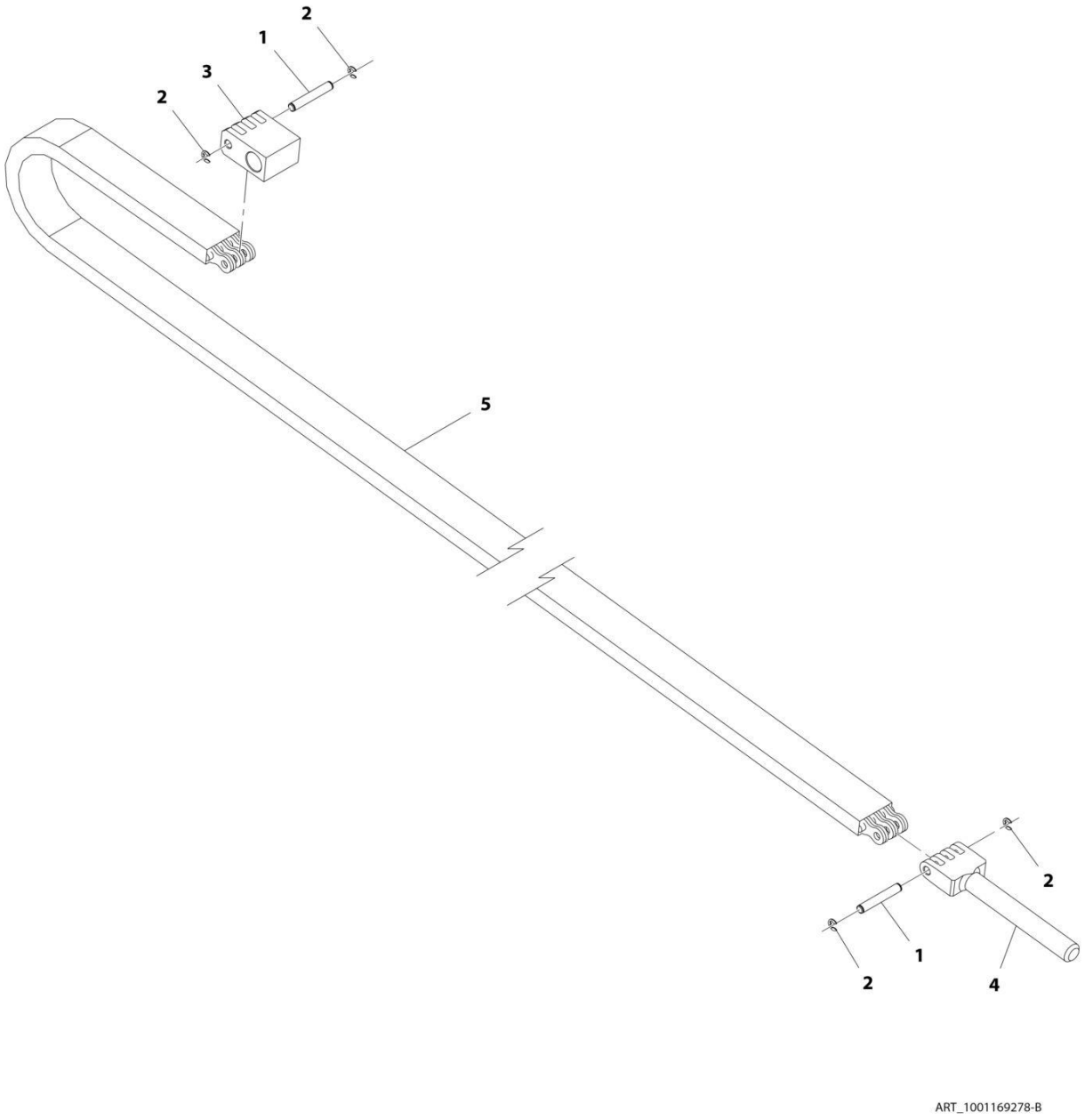


FIGURE 2-17. RETRACT CHAIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169278	Ref	Retract Chain Installation	B
1	1001187785	2	Pin, Clevis	
2	1001166163	4	Ring, External M6	
3	1001166233	1	Clevis, Chain	
4	1001166235	1	Clevis, Chain	
5	1001169279	1	Chain, Retract	

FIGURE 2-18. RETRACT CHAIN SHEAVE

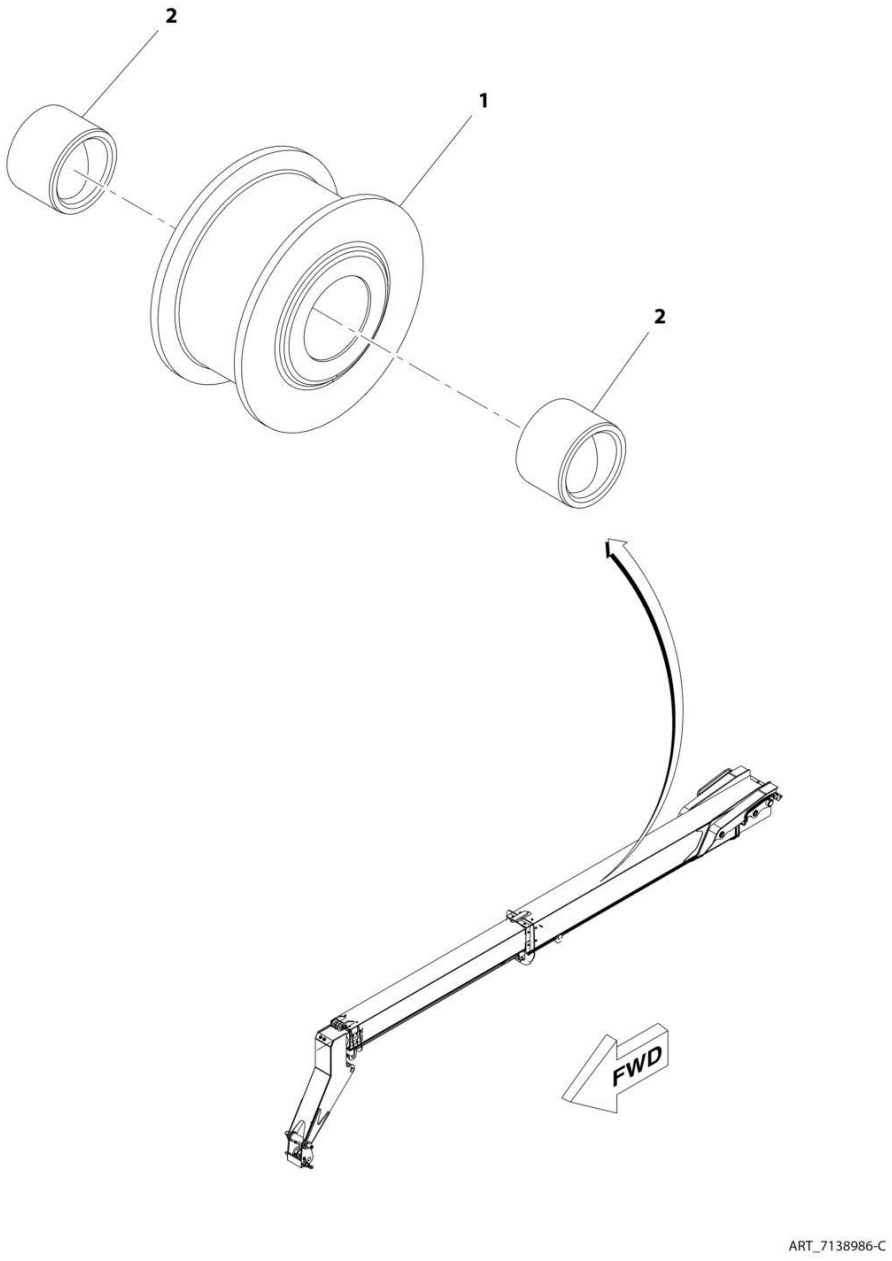


FIGURE 2-18. RETRACT CHAIN SHEAVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7138986	Ref	Retract Chain Sheave	C
1	7138978	NSS	Sheave, Retract Chain (Use PN 713898)	
2	7138979	2	Bushing, Sheave Retract Chain	

FIGURE 2-19. SECOND BOOM SECTION ASSEMBLY

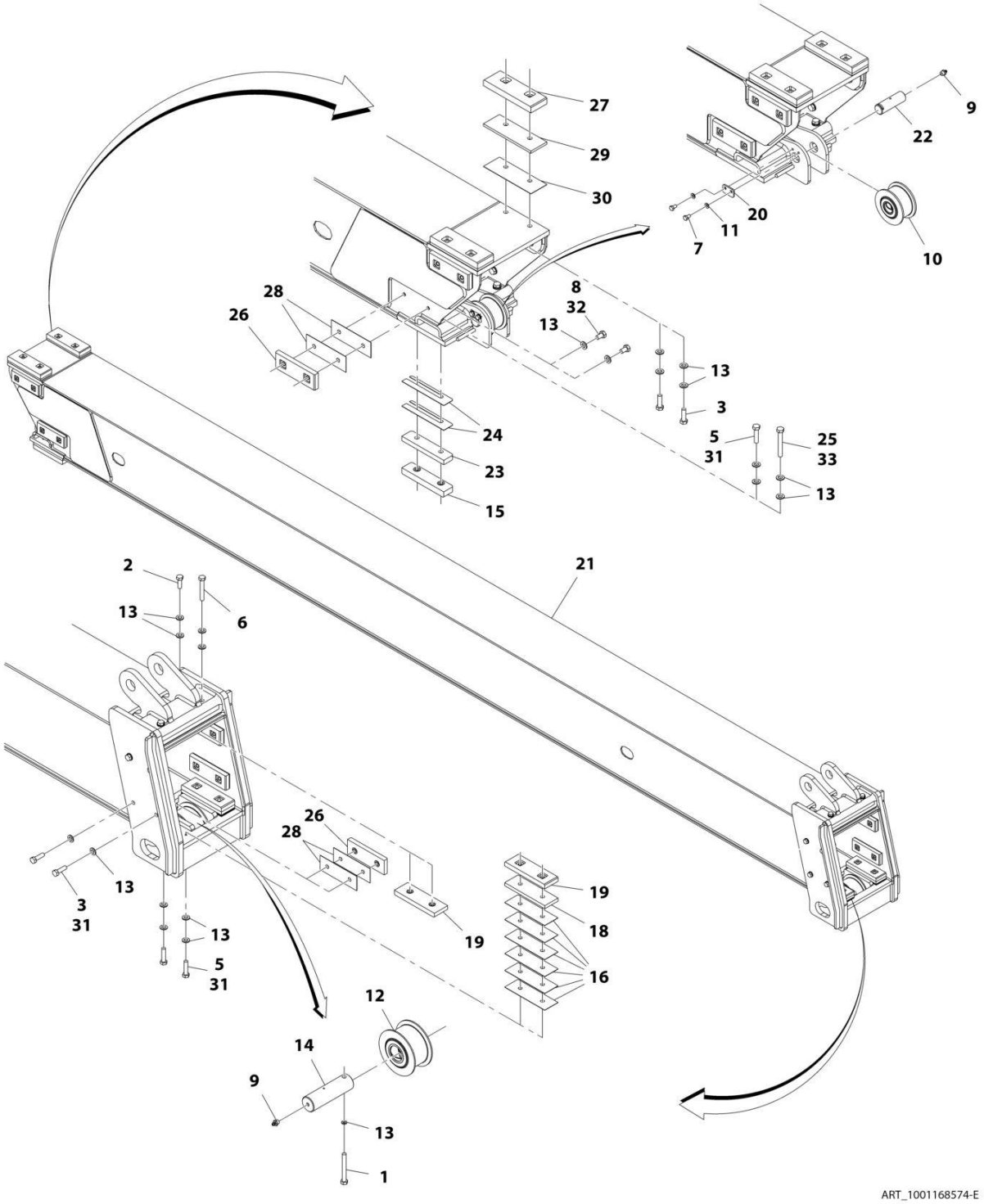


FIGURE 2-19. SECOND BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168574	Ref	Second Boom Section Assembly	E
1	0701227	1	Bolt, M12X100	
2	0711215	2	Bolt, M12X35 Grade 10.9	
3	0711216	12	Bolt, M12X40 Grade 10.9	
5	0711218	6	Bolt, M12X50 Grade 10.9	
6	0711224	2	Bolt, M12X80 Grade 10.9	
7	0760807	2	Bolt, M8X14	
8	0771210	8	Bolt, M12X20 Grade 10.9	
9	2160016	2	Fitting, Grease	
10	7138986	1	Sheave, Retract Chain (See Separate Breakdown in this Section)	
11	4811900	2	Washer, M8	
12	1001101867	1	Assembly, Chain Sheave (See Separate Breakdown in this Section)	
13	1001125117	AR	Washer, M12	
14	1001161055	1	Pin	
15	1001163029	2	Pad	
16	1001163034	AR	Plate	
18	1001163136	2	Plate	
19	1001165171	4	Pad	
20	1001168561	1	Bracket	
21	1001168575	1	Boom, Second	
22	1001168587	1	Pin, Boom Chain Pulley	
23	1001189492	2	Plate	
24	1001189793	AR	Shim	
25	0711226	2	Bolt, M12X90 Grade 10.9	
26	1001165172	8	Pad	
27	1001165173	2	Pad	
28	1001165367	AR	Plate	
29	1001190187	2	Plate	
30	1001163108	AR	Plate	
31	0711217	AR	Bolt, M12X45	
32	0771212	AR	Bolt, M12X25	
33	0711225	AR	Bolt, M12X85	

FIGURE 2-20. TILT CYLINDER PIN INSTALLATION

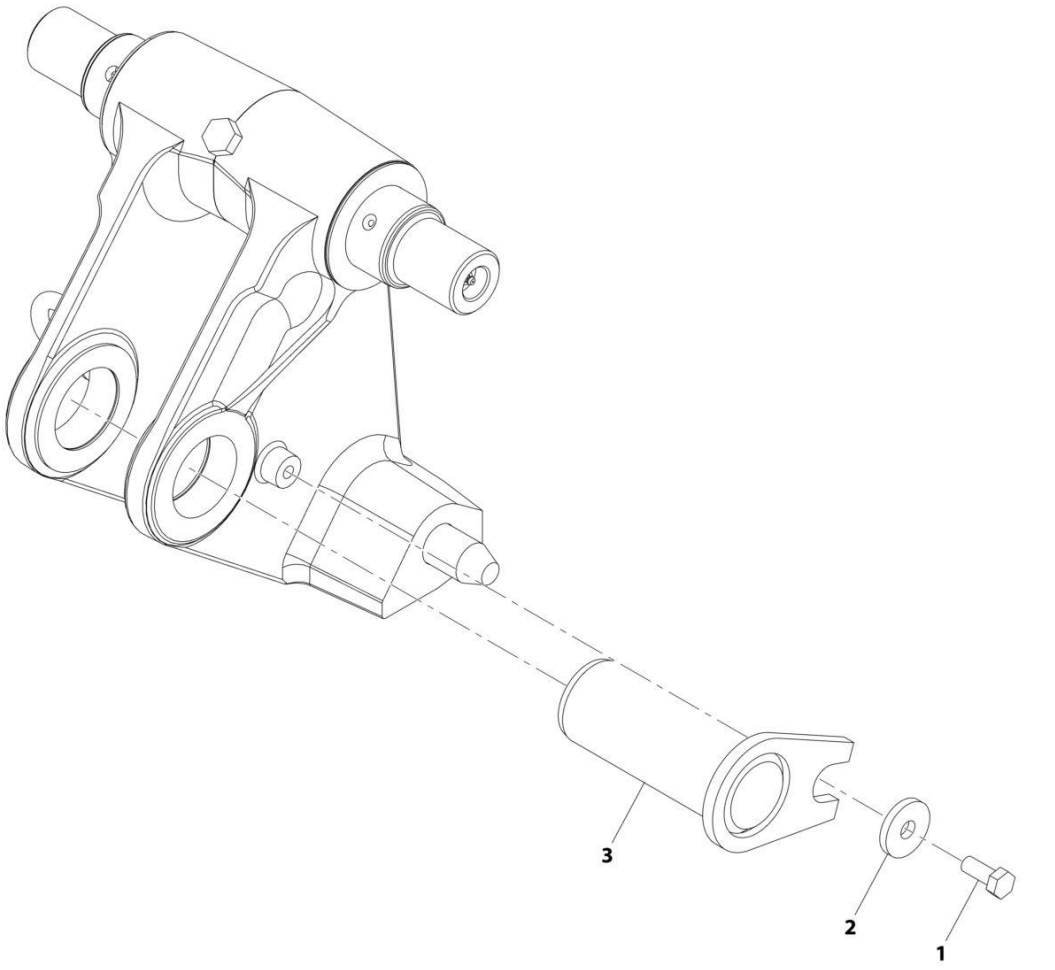


FIGURE 2-20. TILT CYLINDER PIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167762	Ref	Tilt Cylinder Pin Installation	A
1	0761214	1	Bolt, M12X30	
2	4740003	1	Washer	
3	1001164881	1	Pin	

FIGURE 2-21. THIRD BOOM SECTION ASSEMBLY

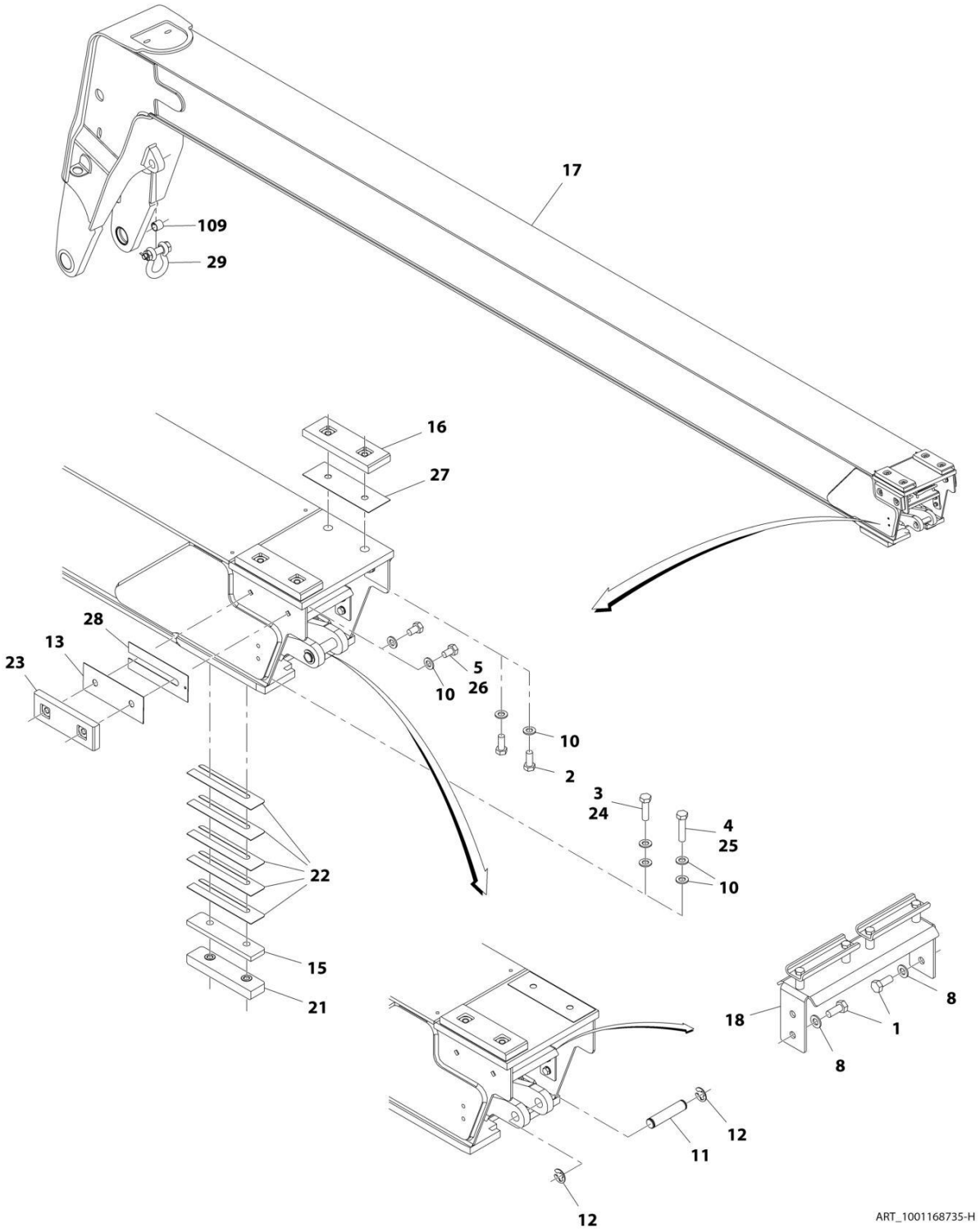


FIGURE 2-21. THIRD BOOM SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168735	Ref	Third Boom Section Assembly	H
1	0760810	4	Bolt, M8X20	
2	0711214	4	Bolt, M12X30 Grade 10.9	
3	0711217	2	Bolt, M12X45	
4	0711219	2	Bolt, M12X55 Grade 10.9	
5	0771210	4	Bolt, M12X20 Grade 10.9	
8	4811900	4	Washer, M8	
10	1001125117	AR	Washer, M12	
11	1001163712	1	Pin	
12	1001163704	2	Ring, M15	
13	1001165367	AR	Plate	
15	1001168589	2	Plate	
16	1001165171	2	Pad	
17	1001168736	1	Boom, Third Section	
18	1001168755	Ref	Installation, Hose Bracket (See Separate Breakdown in this Section)	
21	1001163029	2	Pad	
22	1001189793	AR	Shim	
23	1001165172	2	Pad	
24	0711216	AR	Bolt, M12X40 Grade 10.9	
25	0711218	AR	Bolt, M12X50 Grade 10.9	
26	0771212	AR	Bolt, M12X25 Grade 10.9	
27	1001163034	AR	Plate	
28	1001200989	AR	Plate	
29	1001204045	1	Clevis	
109	1001204047	1	Sleeve	

SECTION 3 - ATTACHMENTS

FIGURE 3-1. 90 SWING CARRIAGE ASSEMBLY

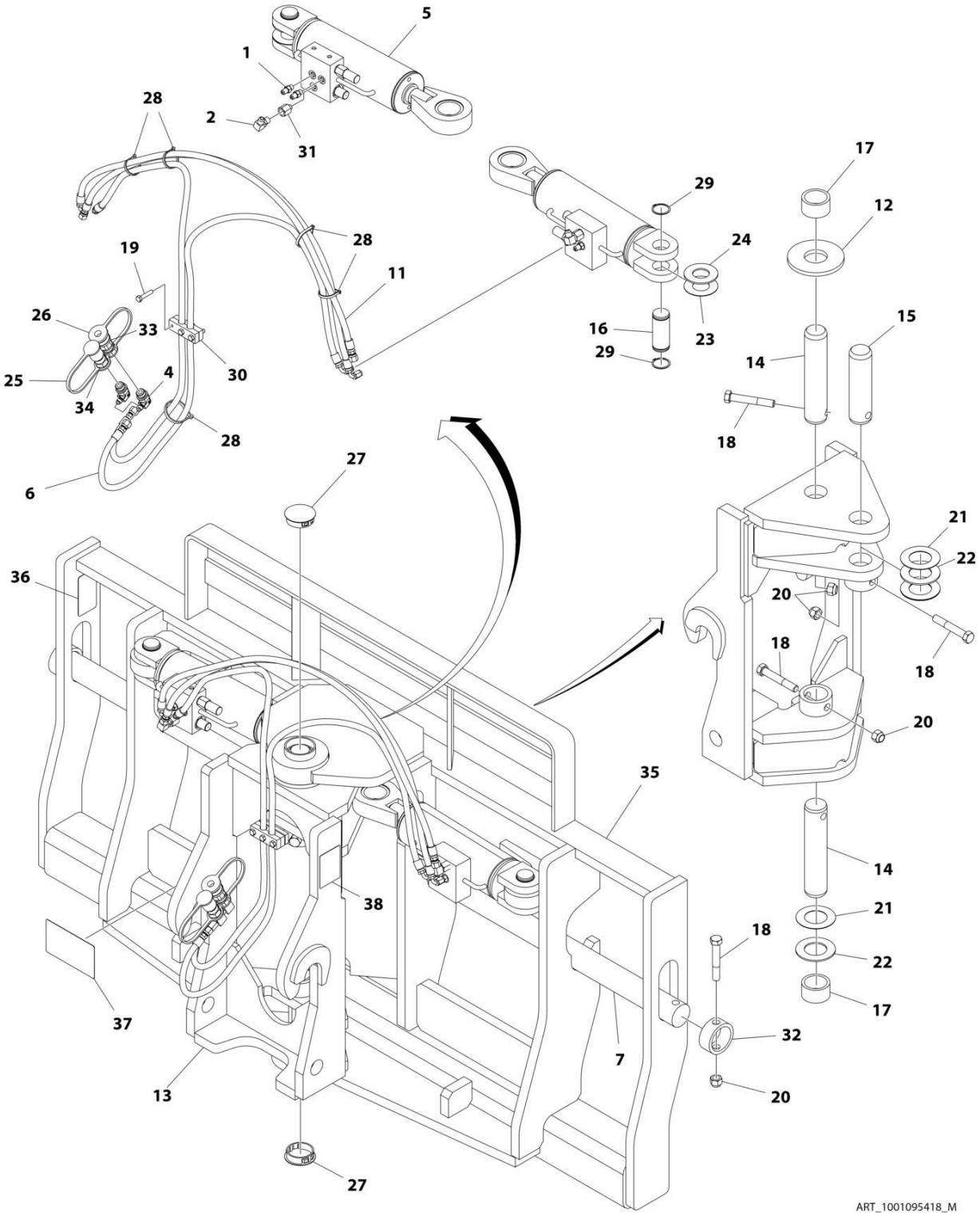


FIGURE 3-1. 90 SWING CARRIAGE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001095418	Ref	90 SWING CARRIAGE ASSEMBLY (72 INCH)	Q
1	2220415	4	Fitting, Straight ORFS	
2	2220473	2	Fitting, 90 ORFS	
4	1001211139	2	Adapter, 90	
5	1001103182	2	Swing Carriage Cylinder (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
6	2717287	2	Hose 58in (Boom Front Disconnect)	
6	1001301599	1	Hose 66in (Boom Side Disconnect)	
6	1001301600	1	Hose 46in (Boom Side Disconnect)	
7	3423276	1	Pin	
11	6604662	2	Hose	
12	7062922	1	Washer	
13	N.S.S.	1	Pivot	
14	7110702	2	Pin	
15	7110712	1	Pin	
16	7110722	2	Pin	
17	8065062	2	Bushing	
18	8303634	5	Bolt 5/8 x 4	
19	8303715	3	Bolt 5/16 x 1-1/2	
20	8305643	5	Nut 5/8	
21	8307904	AR	Washer	
22	8307918	AR	Washer	
23	8310160	AR	Washer	
24	8310161	AR	Washer	
25	8420053	1	Cap	
26	8420055	1	Plug	
27	8580315	2	Plug	
28	8584001	5	Tie Wrap	
29	8642207	4	Ring, Retaining	
30	8769132	2	Clamp	
31	8770016	2	Fitting, Straight ORFS	
32	90200003	2	Collar	
33	91403413	1	Fitting, Straight ORFS	
34	91403414	1	Fitting, Straight	
35	N.S.S.	1	Carriage	
36	N.S.S.	1	Plate	
37	1001110704	1	Decal, Warning Crushing Hazard	
38	1001111190	2	Decal, Warning	

FIGURE 3-2. ADJUSTABLE TRUSS BOOM

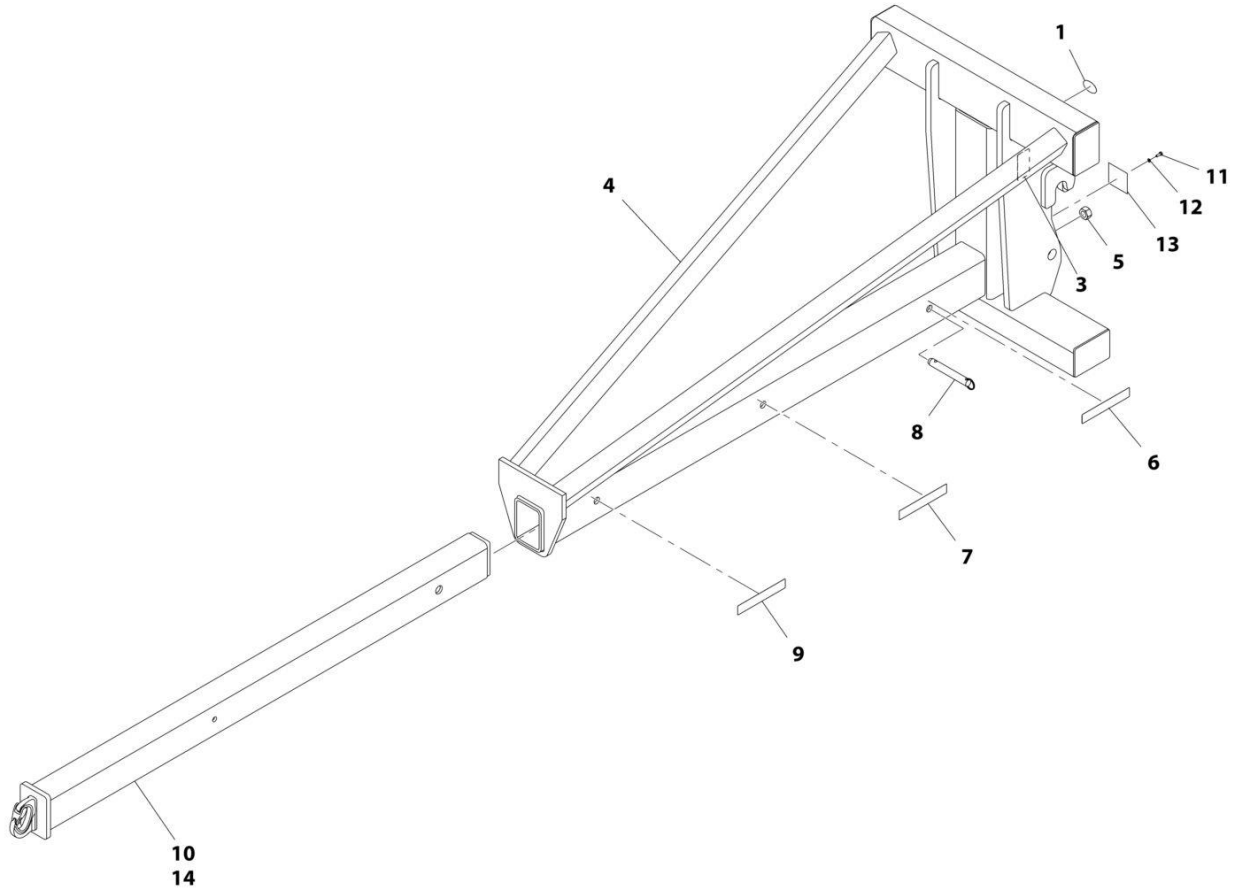


FIGURE 3-2. ADJUSTABLE TRUSS BOOM

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

FIGURE 3-3. BLOCKING FORK

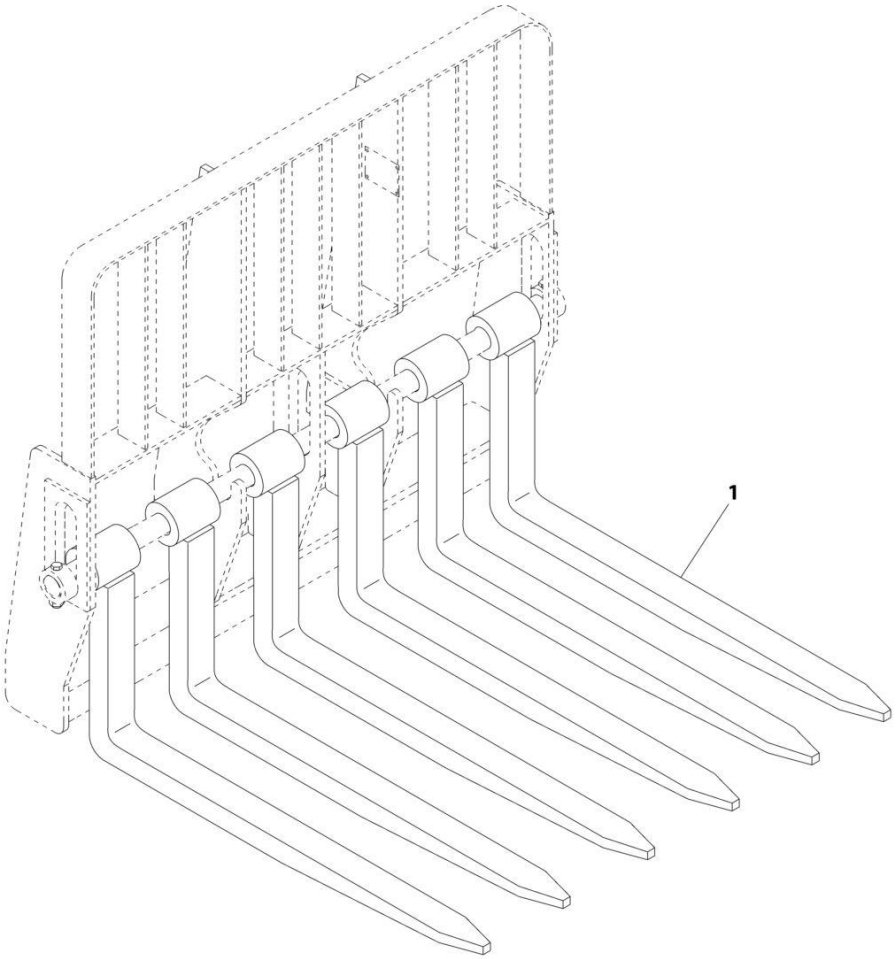


FIGURE 3-3. BLOCKING FORK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340037	1	Cubing Fork (2.00X2X48)	A
	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-4. BUCKET ASSEMBLY 72"

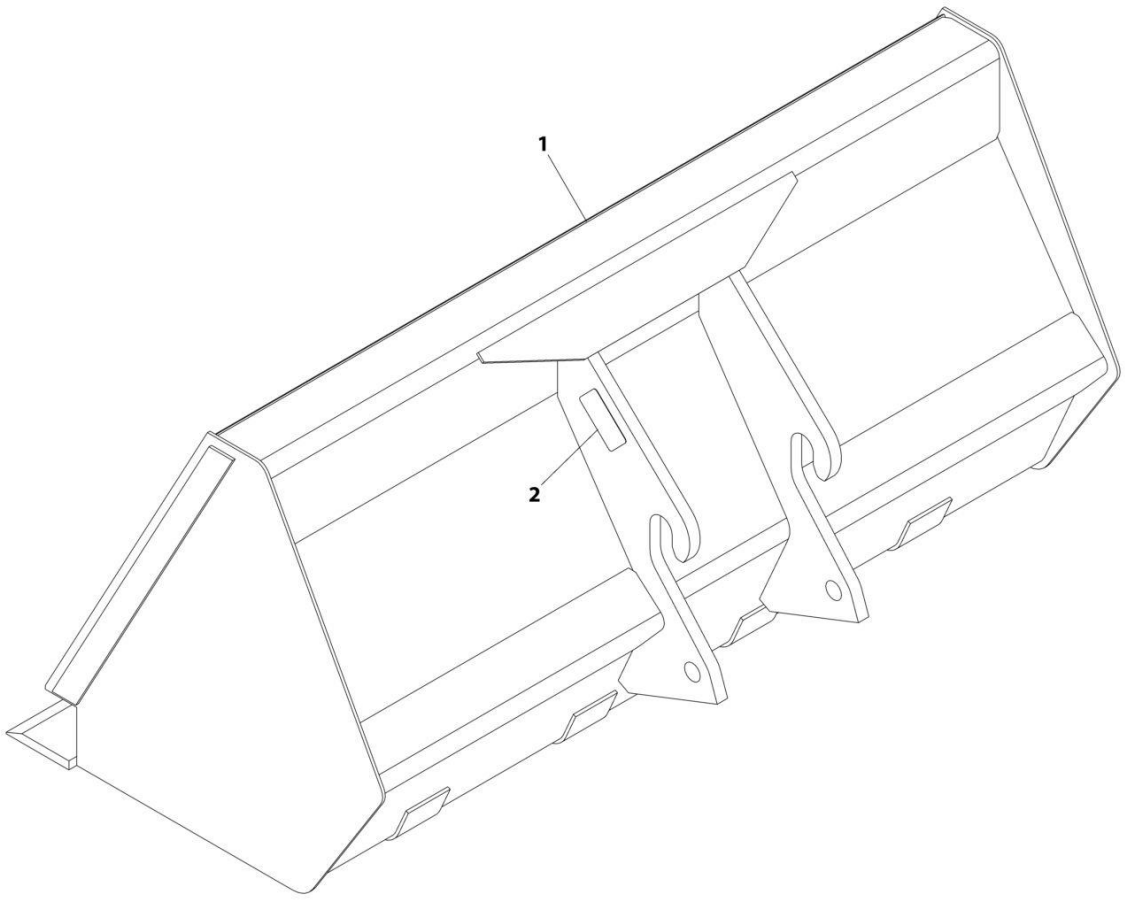


FIGURE 3-4. BUCKET ASSEMBLY 72"

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100822	Ref	BUCKET 1.0 YD³ (ANSI - JLG)	F
1	1001100265	1	Bucket Weldment	
2	N.S.S.	1	S/N Plate	

FIGURE 3-5. BUCKET ASSEMBLY 96"

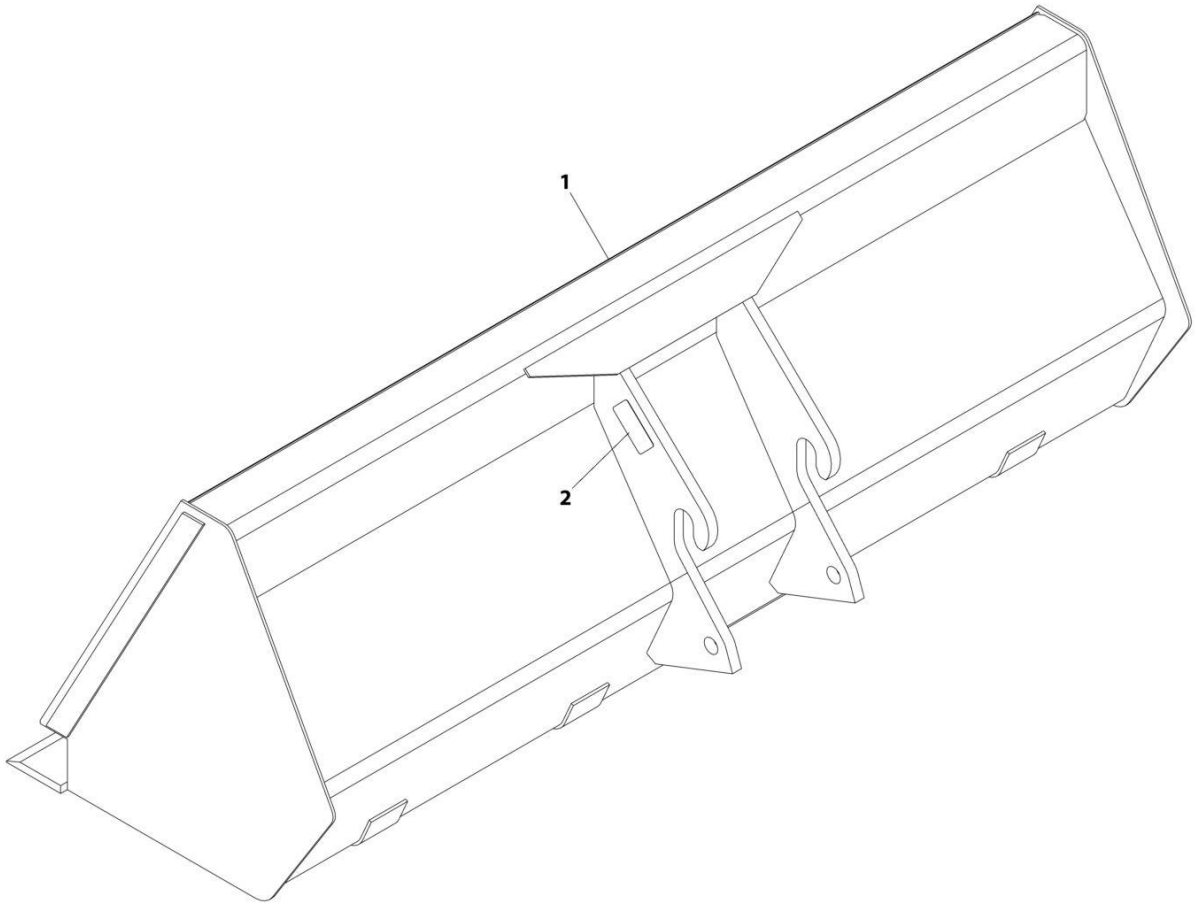


FIGURE 3-5. BUCKET ASSEMBLY 96"

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100823	Ref	BUCKET (1.15 M^3)	F
1	1001100266	1	Bucket	
2	N.S.S.	1	S/N Plate	

FIGURE 3-6. BUCKET ASSEMBLY 102"

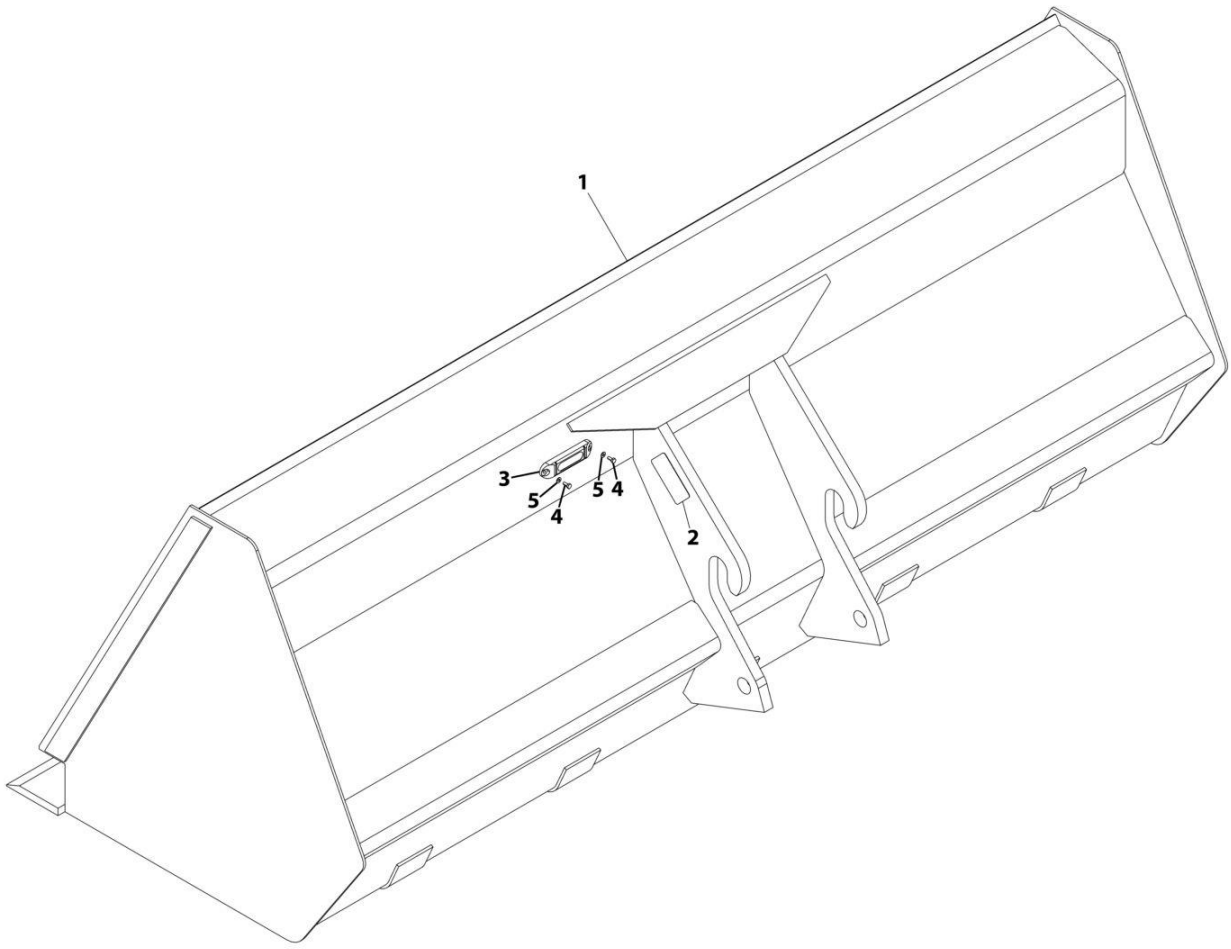


FIGURE 3-6. BUCKET ASSEMBLY 102"

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

FIGURE 3-7. CARRIAGE ASSEMBLY 50"

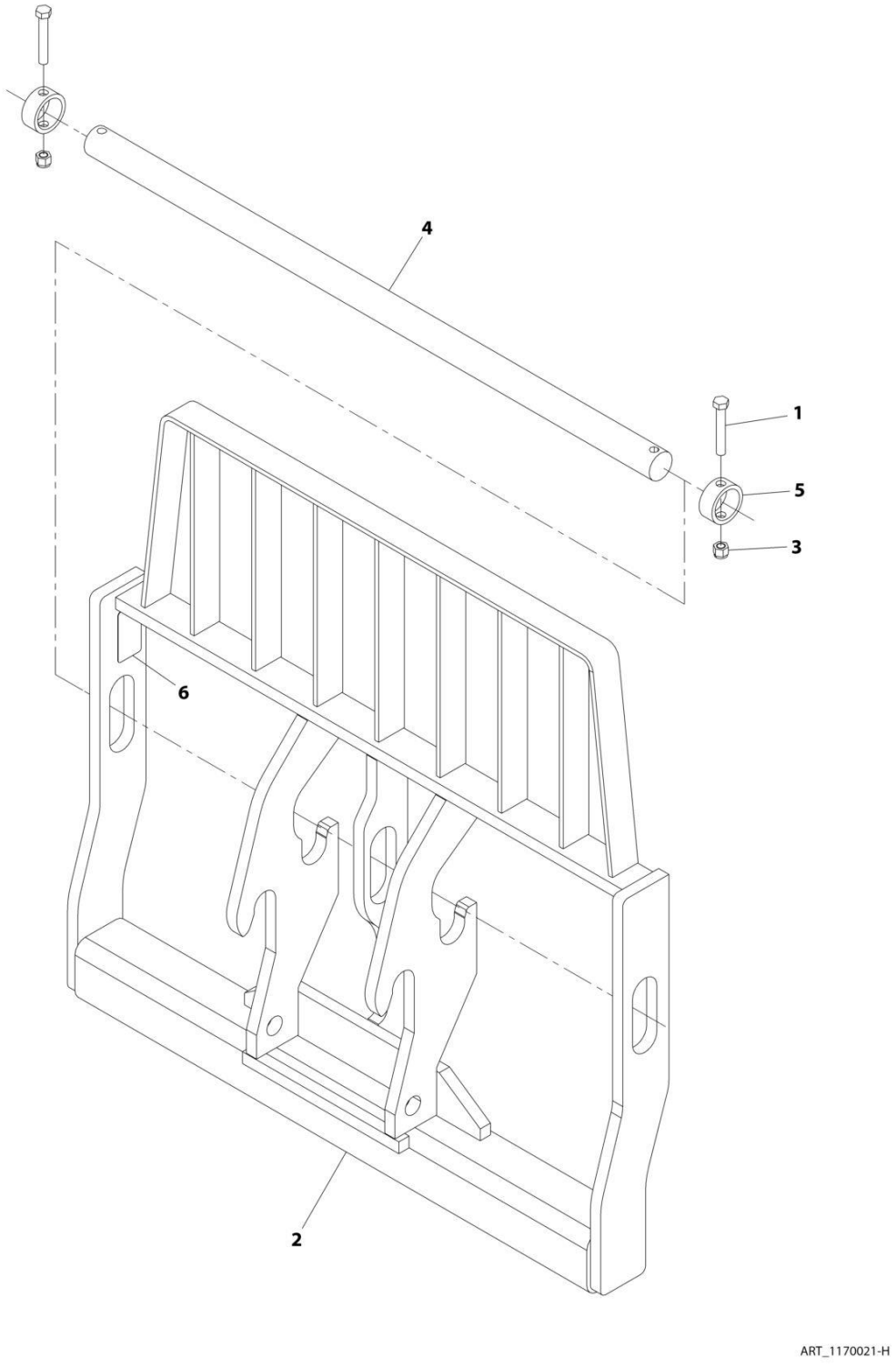


FIGURE 3-7. CARRIAGE ASSEMBLY 50"

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

FIGURE 3-8. CARRIAGE ASSEMBLY 60"

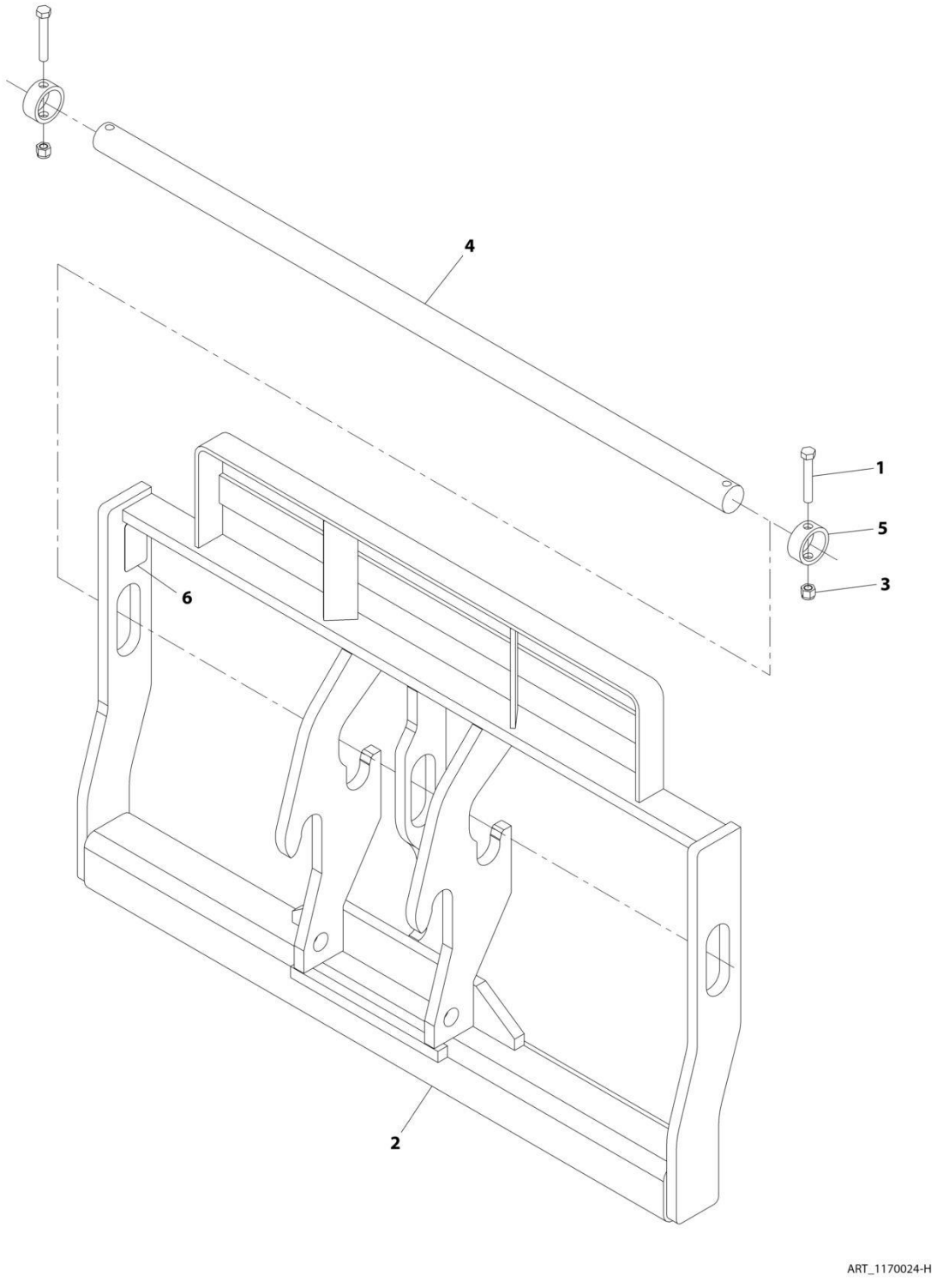


FIGURE 3-8. CARRIAGE ASSEMBLY 60"

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

FIGURE 3-9. CARRIAGE ASSEMBLY 72"

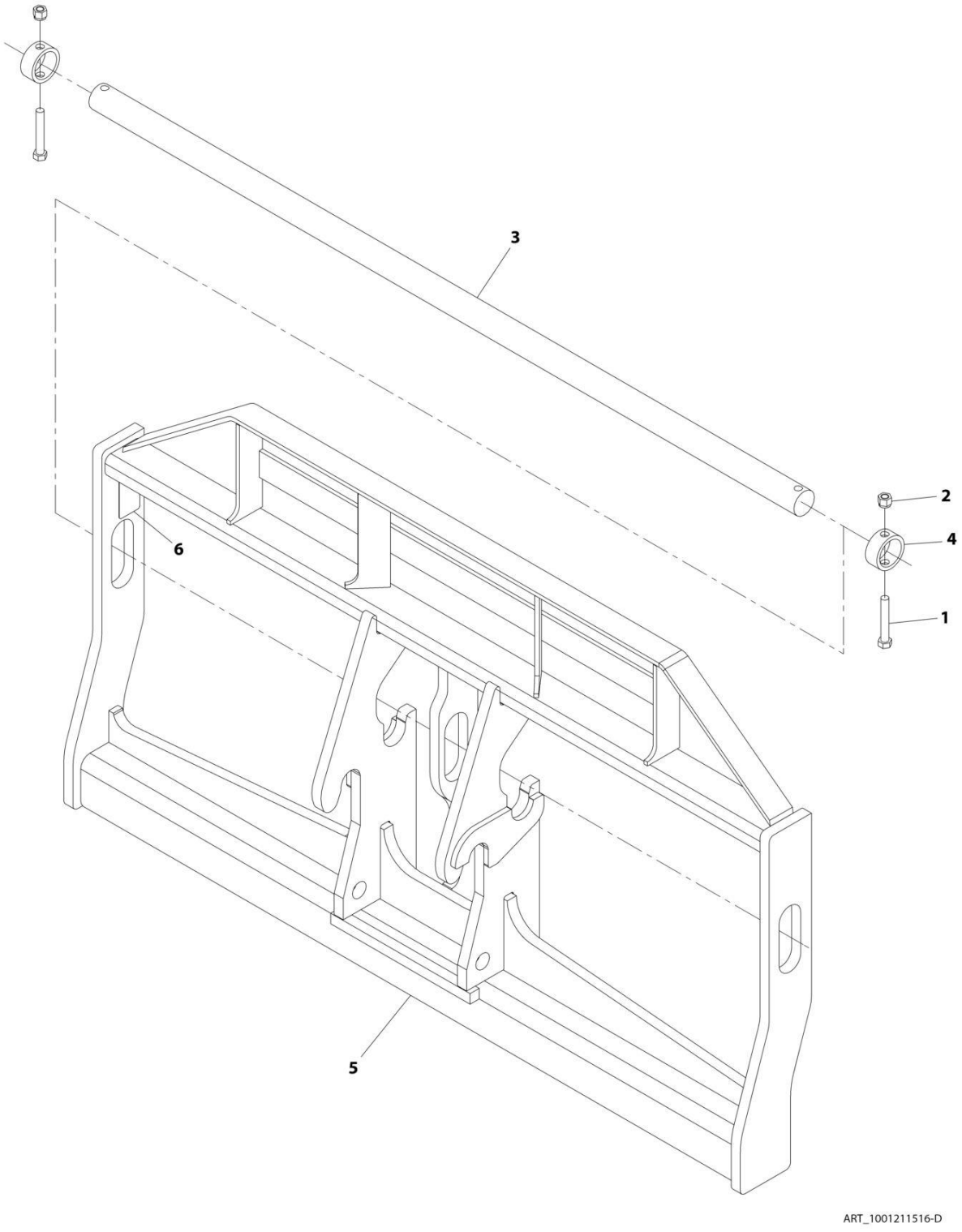


FIGURE 3-9. CARRIAGE ASSEMBLY 72"

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

FIGURE 3-10. CRANE HOOK

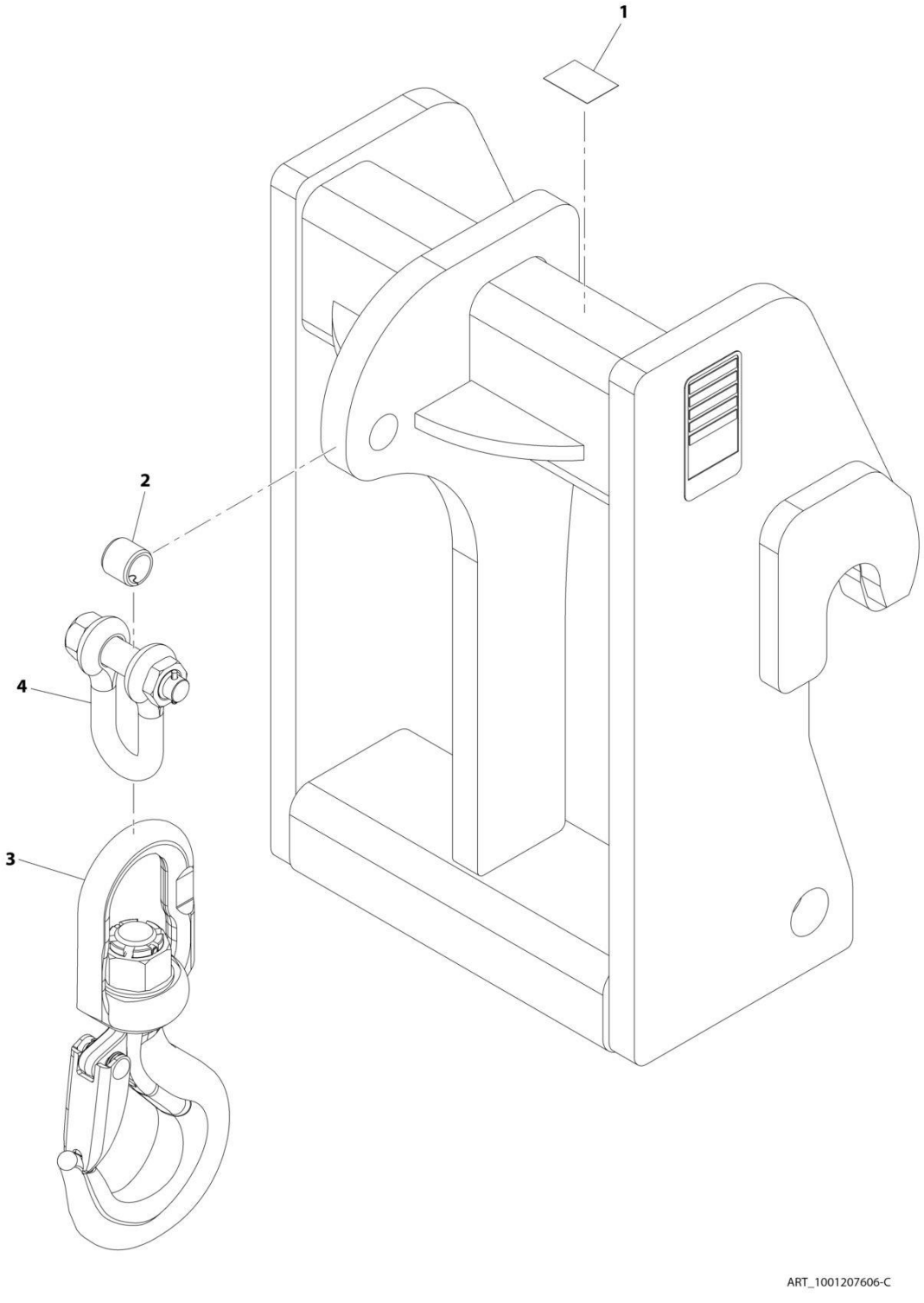


FIGURE 3-10. CRANE HOOK

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

FIGURE 3-11. DUAL FORK CARRIAGE ASSEMBLY

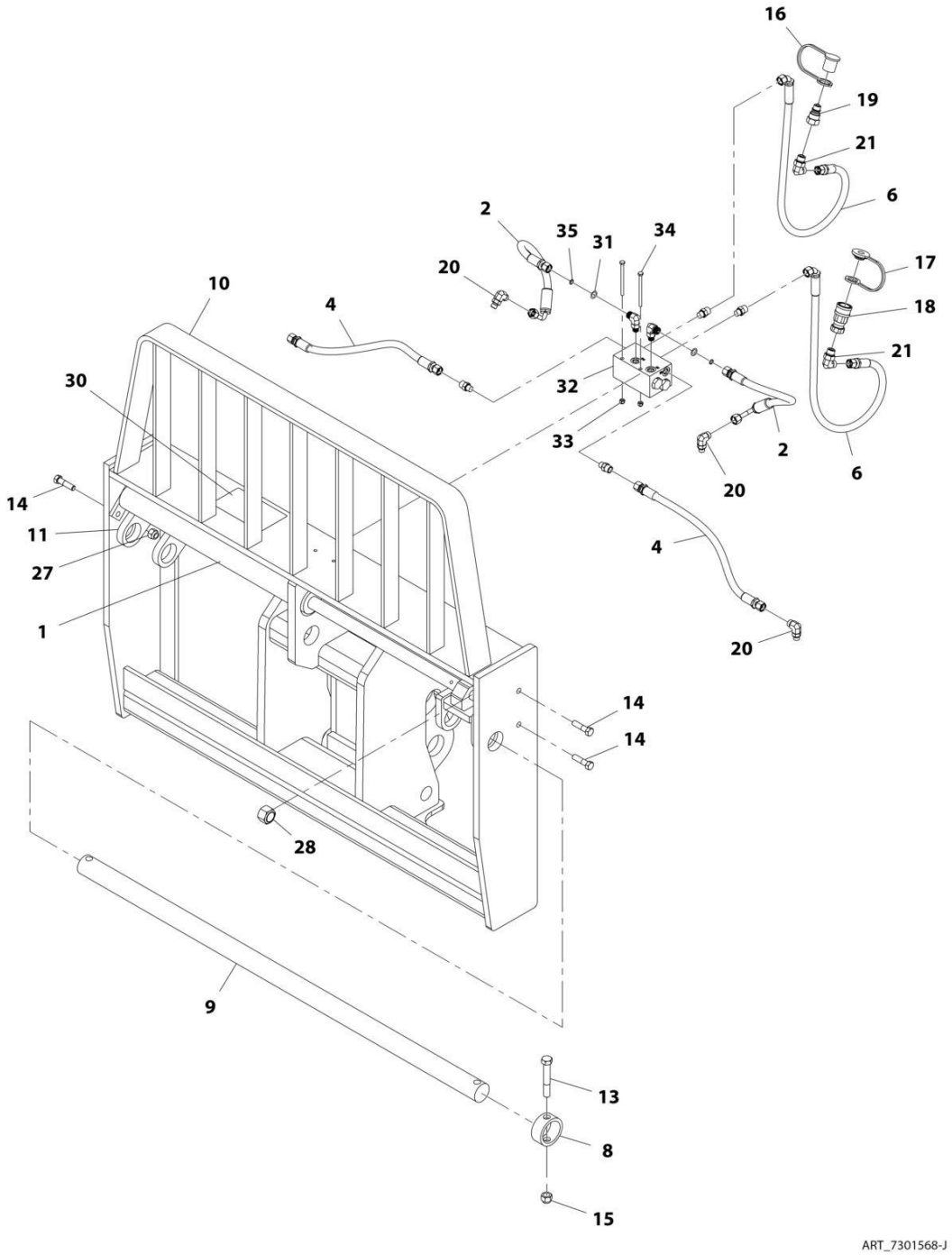


FIGURE 3-11. DUAL FORK CARRIAGE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301568	Ref	Dual Fork Carriage Assembly	J
1	2717283	2	Cylinder, Fork Positioning (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
2	2717160	2	Hose	
4	2717161	2	Hose	
6	2717162	2	Hose	
8	90200003	2	Collar, Fork Pin	
9	90451058	1	Shaft, Fork	
10	N.S.S.	1	Weldment, Carriage	
11	N.S.S.	2	Weldment, Fork Adapter	
13	8303634	2	Bolt, 5/8-11X4	
14	8303658	4	Bolt, 1/2-13X2	
15	8305643	2	Nut, Lock 5/8-11	
16	8420053	1	Cap, Dust	
17	8420055	1	Plug, Dust	
18	91403413	1	Fitting, Straight	
19	91403414	1	Fitting, Straight	
20	2130606	4	Fitting, 90	
21	2130608	2	Fitting, 90	
27	8310302	4	Nut, Lock 1/2-13	
28	10705034	2	Nut, Lock 1-14	
30	4110473	1	Decal, Warning Route Hoses	
31	7139918	2	Disk, Orifice	
32	4641502	1	Assembly, Dual Fork Carriage Valve (See Separate Breakdown in this Section)	
33	8305624	2	Nut, Lock 1/4-20	
34	8310435	2	Bolt, 1/4-20X3-3/4	
35	8630003	2	O-Ring	

FIGURE 3-12. DUAL FORK CARRIAGE VALVE ASSEMBLY

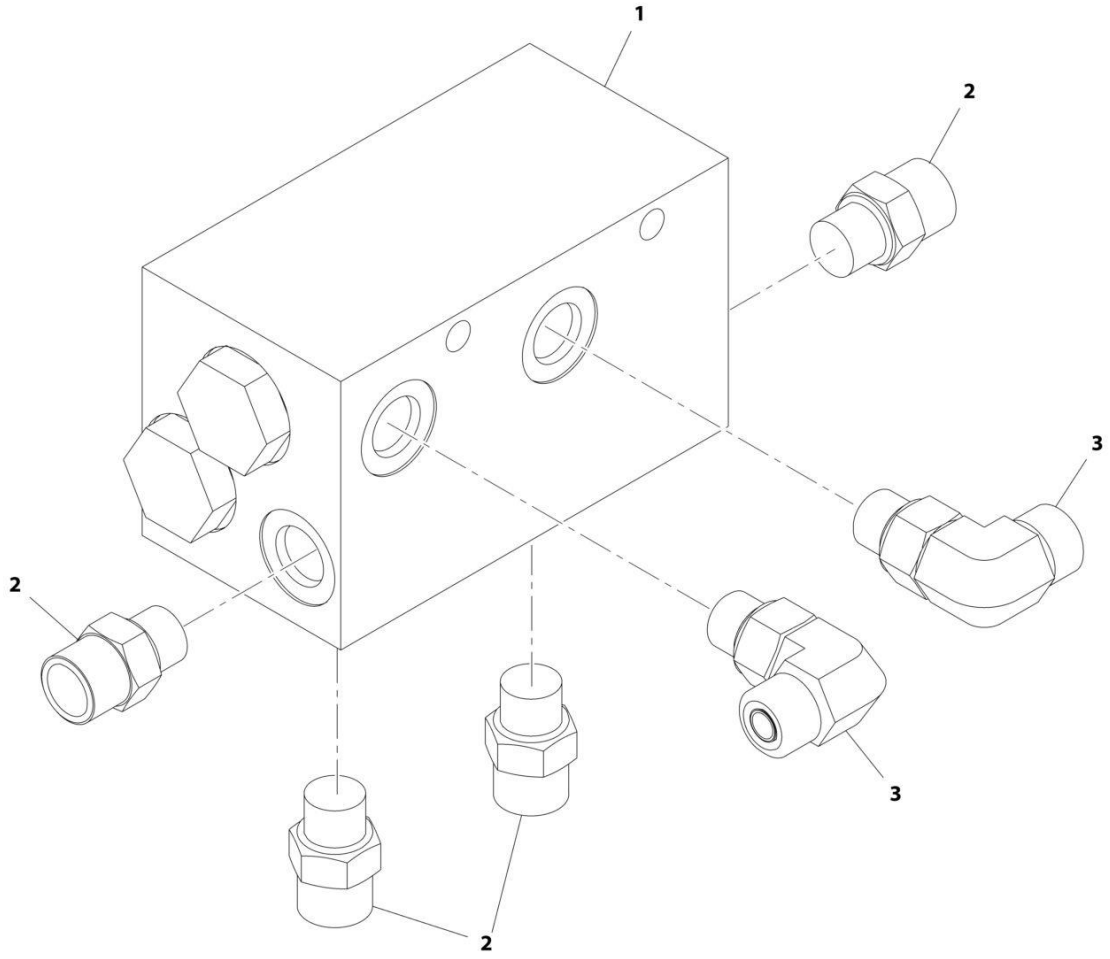


FIGURE 3-12. DUAL FORK CARRIAGE VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4641502	Ref	Dual Fork Carriage Valve Assembly	B
1	4641501	1	Valve, Flow Divider (See Separate Breakdown in this Section)	
2	2110606	4	Fitting, Straight ORFS	
3	2130606	2	Fitting, 90	

FIGURE 3-13. FLOW DIVIDER VALVE

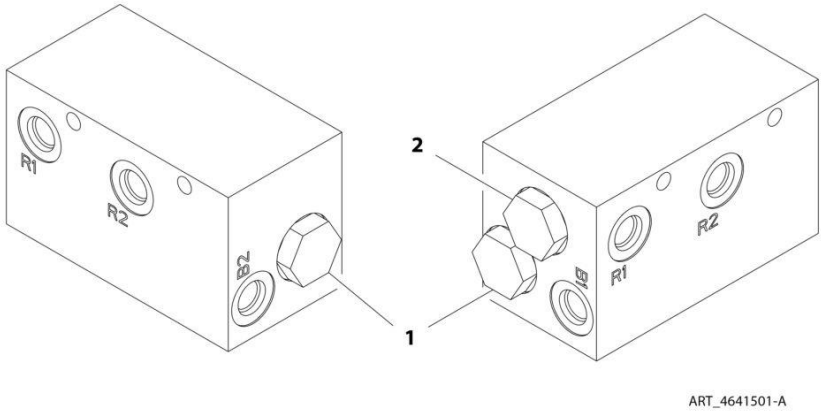


FIGURE 3-13. FLOW DIVIDER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4641501	Ref	Flow Divider Valve	A
1	70023928	2	Valve, Check	
2	70023929	1	Valve, Cartridge	

FIGURE 3-14. FORK POSITIONING CARRIAGE WITH FORKS

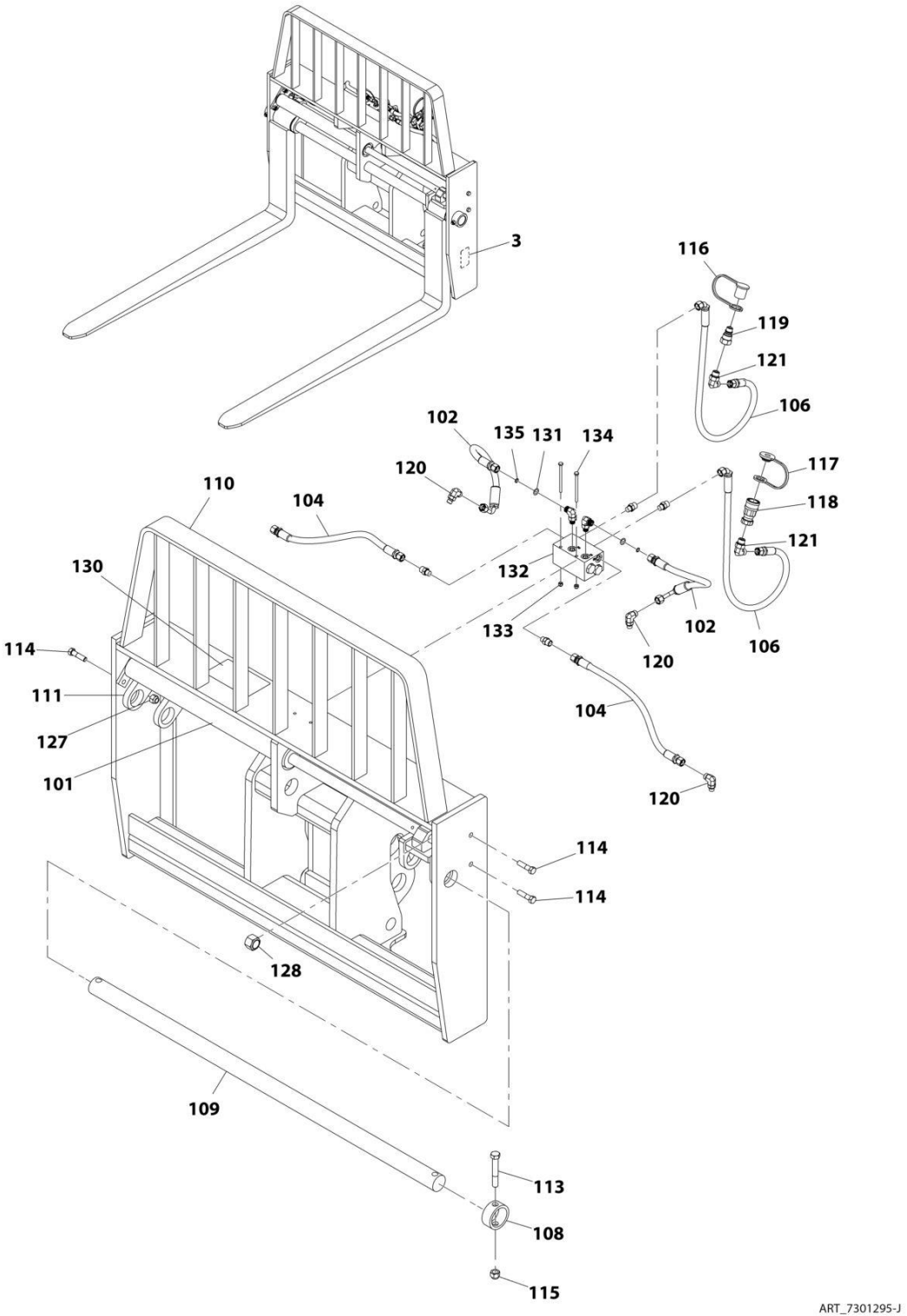


FIGURE 3-14. FORK POSITIONING CARRIAGE WITH FORKS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301295	Ref	FORK POSITIONING CARRIAGE (4.5 TON)	J
3	N.S.S.	1	S/N Plate	
101	2717283	2	Cylinder, Fork Positioning (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
102	2717160	2	Hose	
104	2717161	2	Hose	
106	2717162	1	Hose 36in (Boom Front Disconnect)	
106	70031443	1	Hose 44in (Boom Side Disconnect)	
108	90200003	2	Collar, Fork Pin	
109	90451058	1	Shaft, Fork	
110	N.S.S.	1	Weldment, Carriage	
111	N.S.S.	1	Weldment, Fork Adapter	
113	8303634	2	Bolt 5/8 x 4	
114	8303658	4	Bolt 1/2 x 2	
115	8305643	2	Nut 5/8	
116	8420053	1	Cap, Dust	
117	8420055	1	Plug, Dust	
118	91403413	1	Adapter, Quick Disconnect	
119	91403414	1	Adapter, Quick Disconnect	
120	2130606	4	Adapter, 90 Straight	
121	2130608	2	Adapter, 90 Straight	
127	8310302	4	Nut 1/2	
128	10705034	2	Nut 1	
130	4110473	1	Decal, Warning Route Hoses	
131	7139918	2	Disk, Orifice	
132	4641502	1	Assembly, Dual Fork Carriage Valve (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
133	8305624	2	Nut 1/4	
134	8310435	2	Bolt 1/4 x 3-3/4	
135	8630003	2	O-Ring	

FIGURE 3-15. FORK PALLET

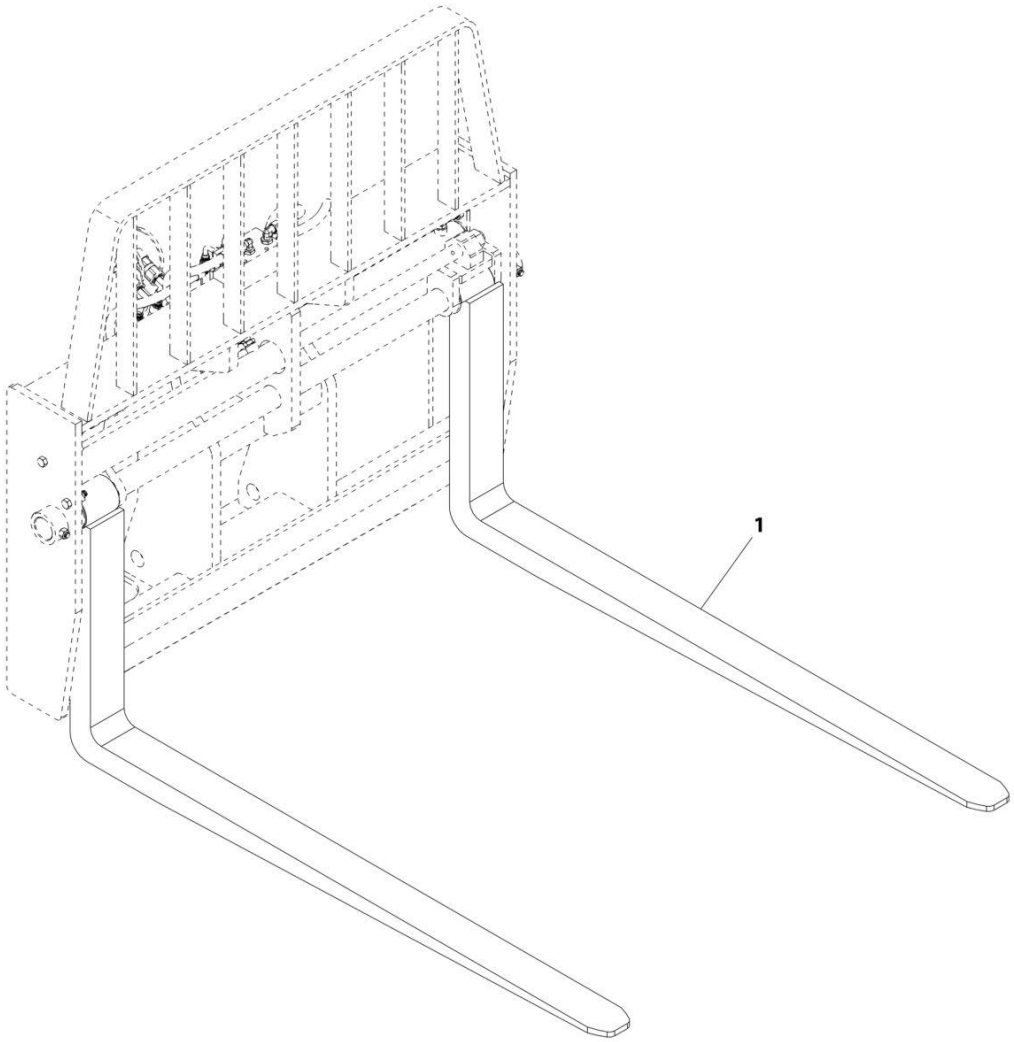


FIGURE 3-15. FORK PALLET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001227379	2	Pallet Fork (2.36X4X60)	A
N1	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
N2	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-16. FORK CAMPS INSTALLATION

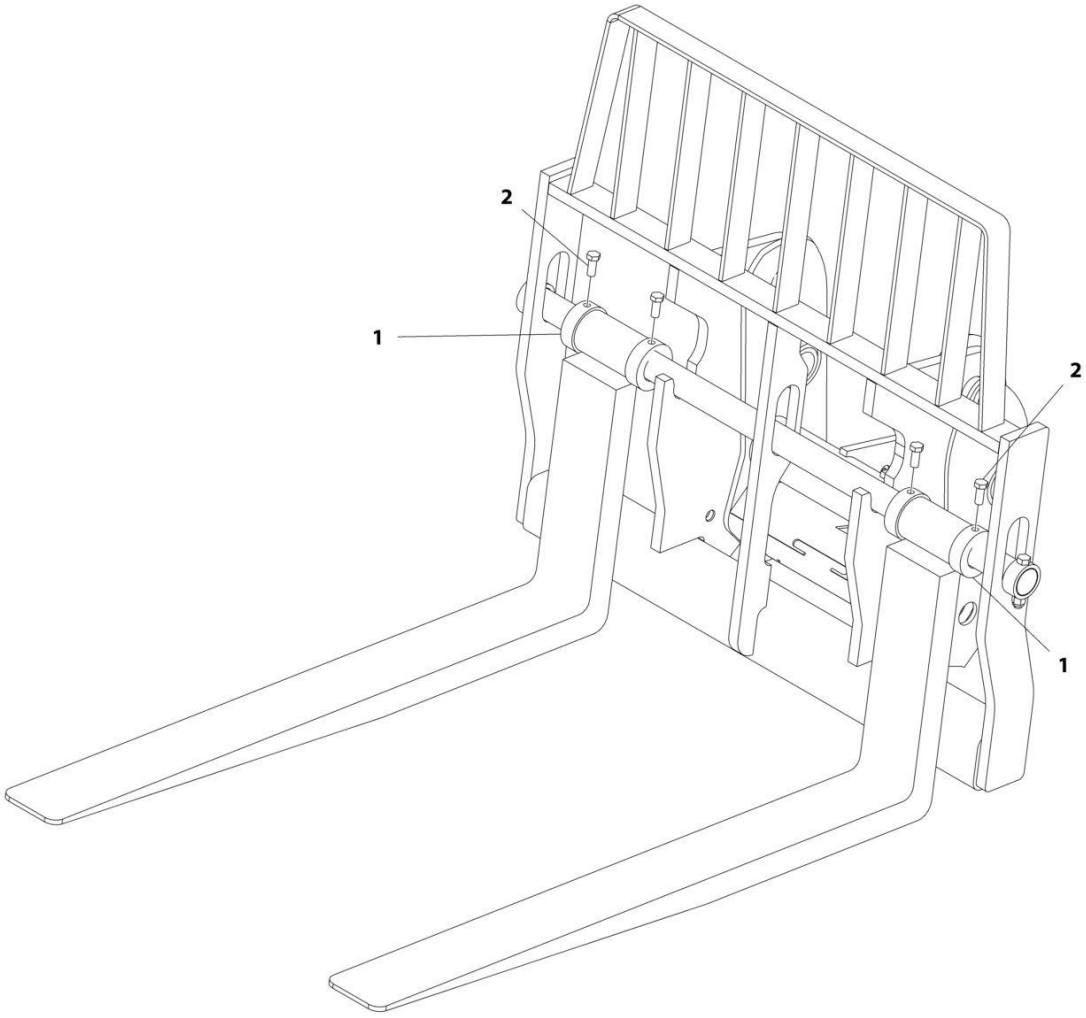


FIGURE 3-16. FORK CAMPS INSTALLATION

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

FIGURE 3-17. FORK EXTENSIONS

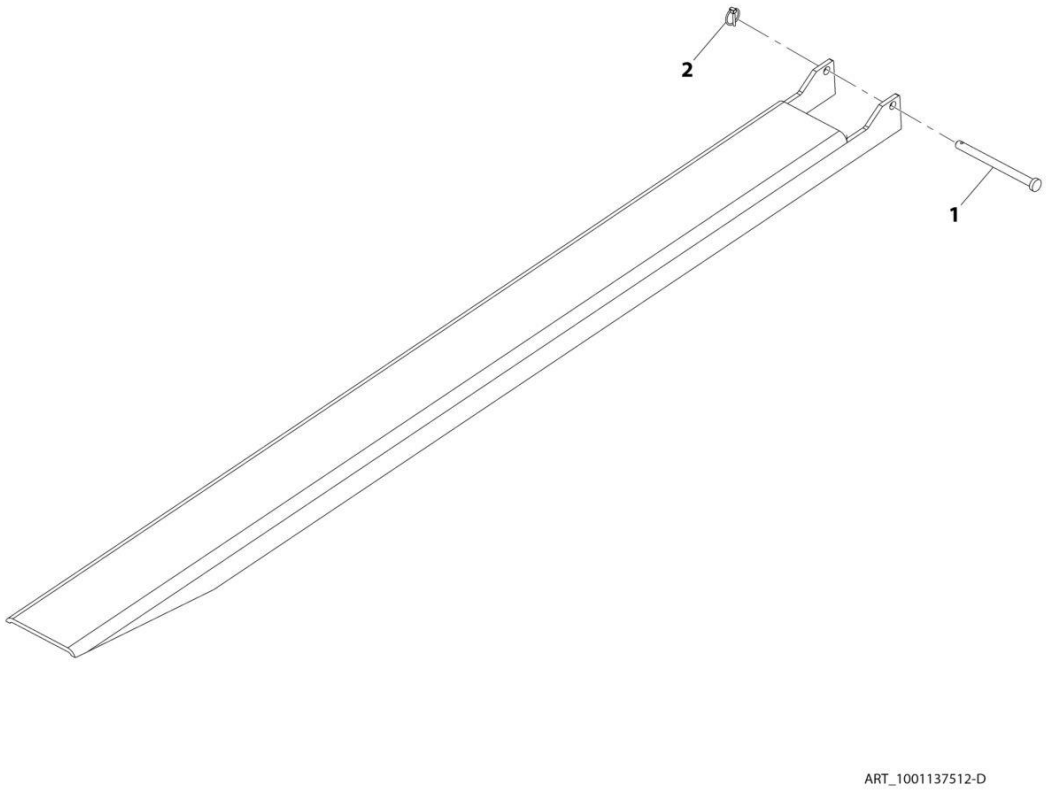


FIGURE 3-17. FORK EXTENSIONS

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

FIGURE 3-18. FORK MOUNTED BUCKET

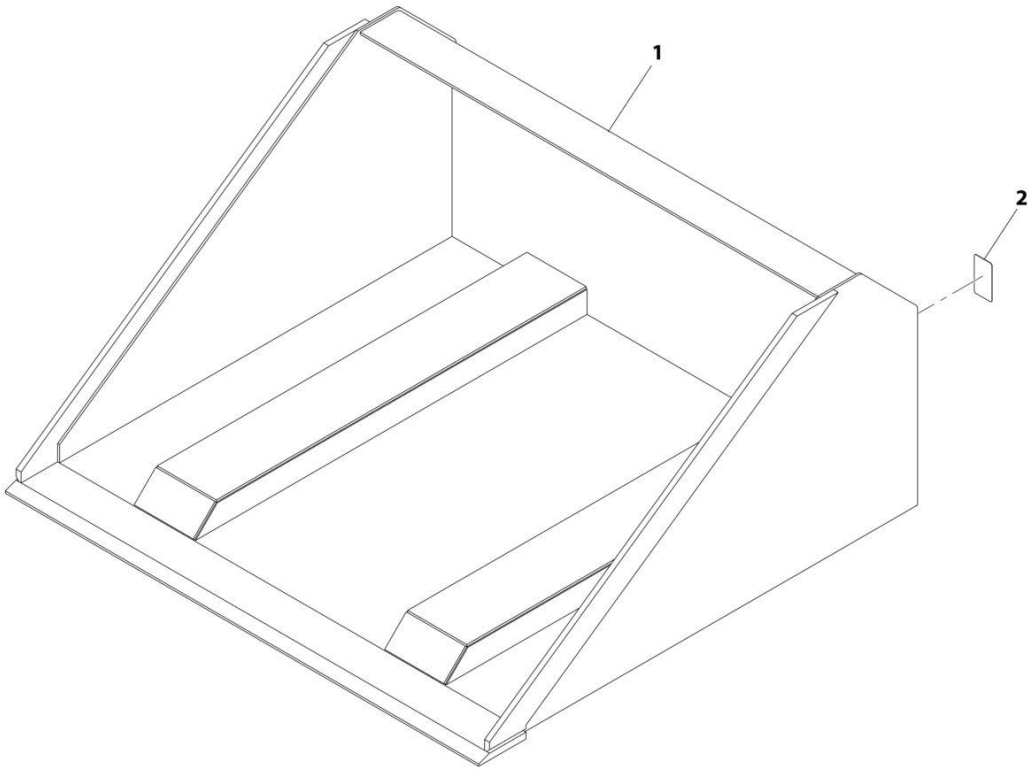


FIGURE 3-18. FORK MOUNTED BUCKET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001195970	Ref	Bucket 1.0 m³ (Fork Mounted)	E
2	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	

FIGURE 3-19. FORK MOUNTED HOOD

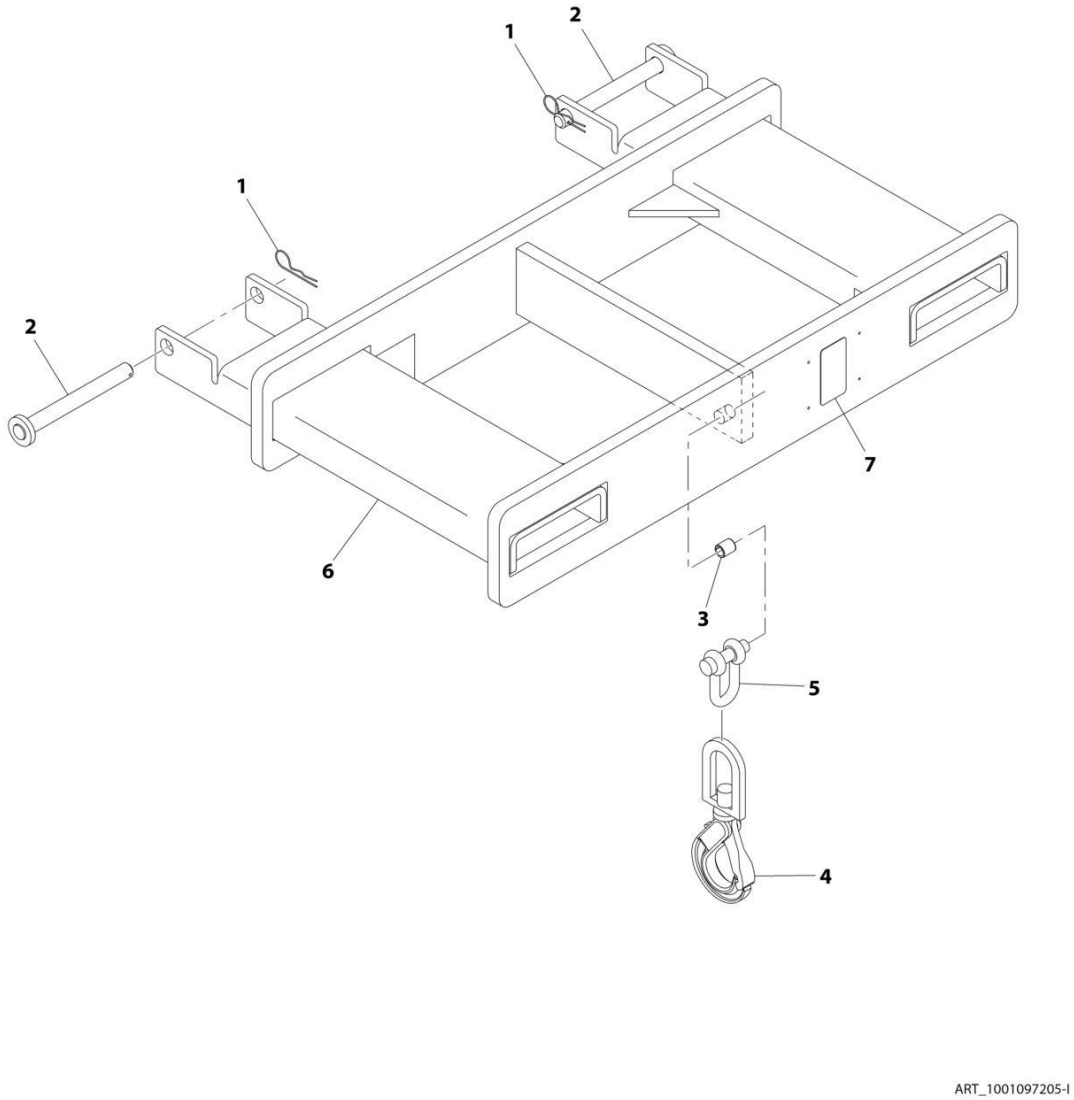


FIGURE 3-19. FORK MOUNTED HOOD

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

FIGURE 3-20. FORK MOUNTED BASKET (ANSI)

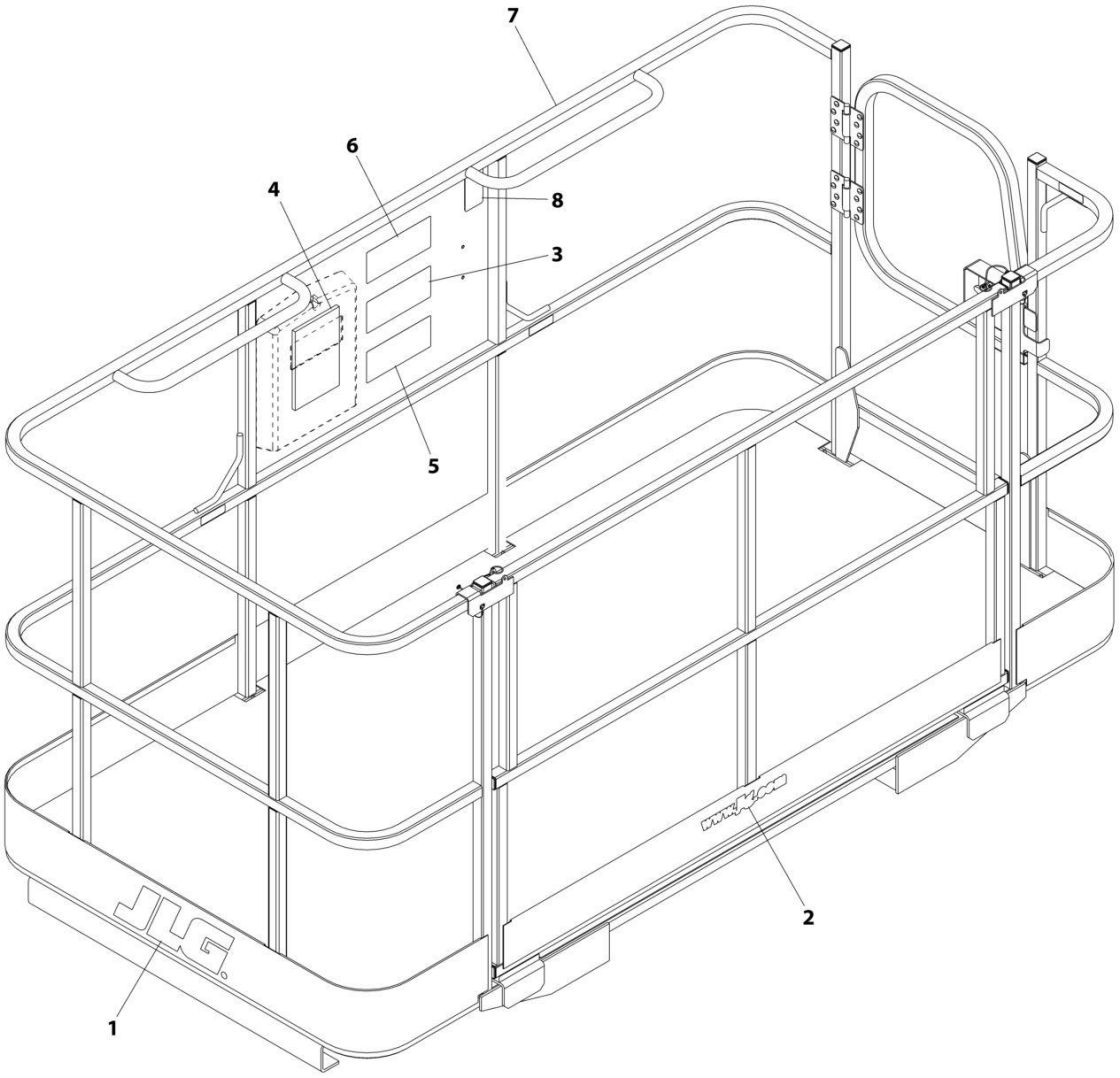


FIGURE 3-20. FORK MOUNTED BASKET (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103637	Ref	Fork Mounted Basket (ASME)	G
1	1702773	2	Decal, JLG	
2	1704885	1	Decal, Website	
3	1706892	1	Decal, Platform Warning	
4	31200160	1	Manual, Personnel Work Platform Operation and Safety	
5	1001092481	1	Decal, Warning Attachment	
6	1001092482	1	Decal, Platform Capacity	
7	1001096162	1	Platform, Fork Mounted (See Separate Breakdown in this Section)	
8	N.S.S.	1	S/N Plate	

FIGURE 3-21. FORK MOUNTED BASKET (ENGLISH/FRENCH DECALS)

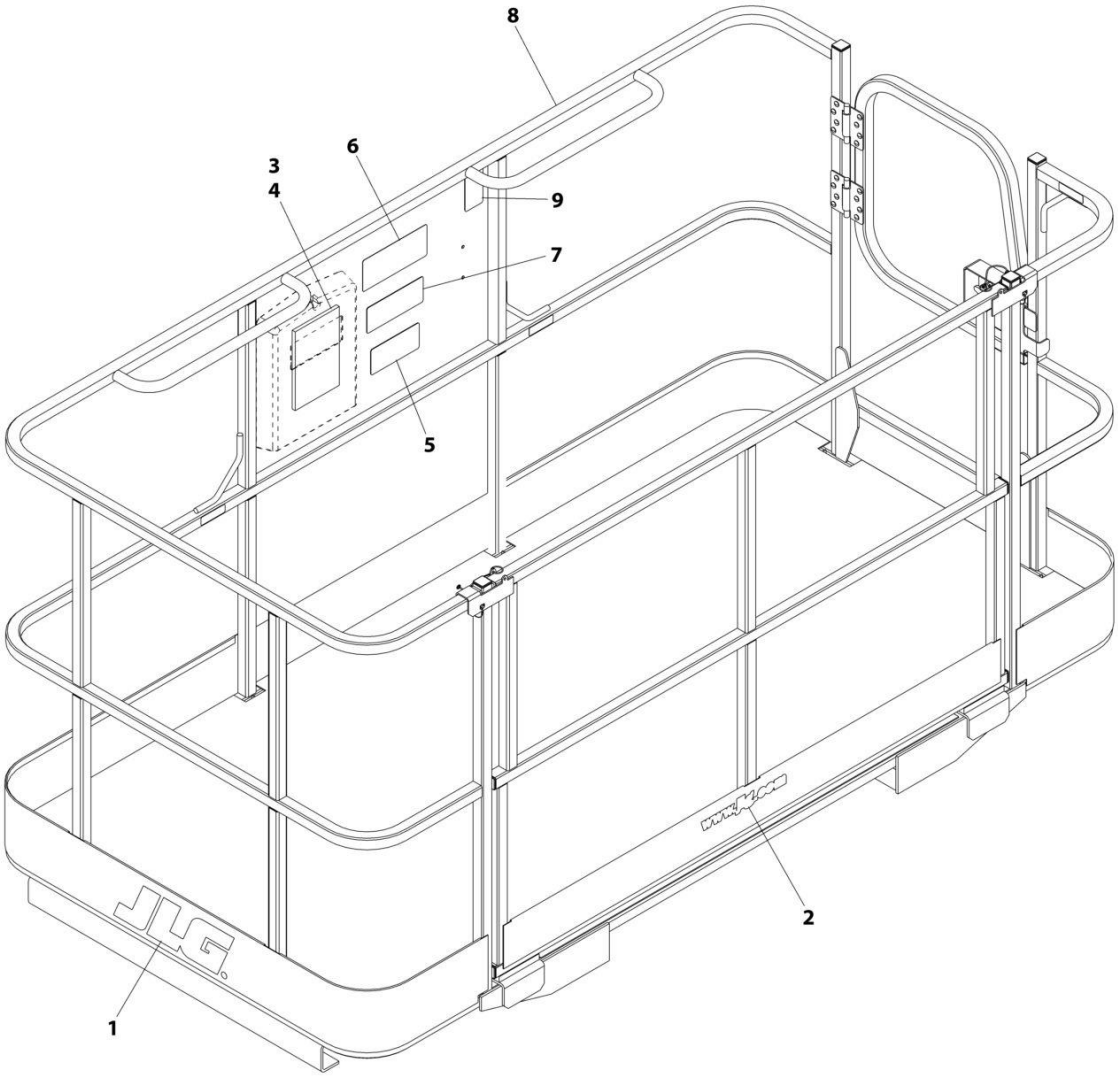


FIGURE 3-21. FORK MOUNTED BASKET (ENGLISH/FRENCH DECALS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103730	Ref	Fork Mounted Basket (ISO)	G
1	1702773	2	Decal, JLG	
2	1704885	1	Decal, Website	
3	31200387	1	Manual, Operation and Safety, Spanish	
4	31200388	1	Manual, Operation and Safety, Portuguese	
5	1001096021	1	Decal, Warning Attachment	
6	1001096023	1	Decal, Platform Capacity	
7	1001096025	1	Decal, Platform Warning	
8	1001096162	1	Platform, Fork Mounted (ANSI) (See Separate Breakdown in this Section)	
9	N.S.S.	1	S/N Plate	

FIGURE 3-22. FORK MOUNTED BASKET (ISO)

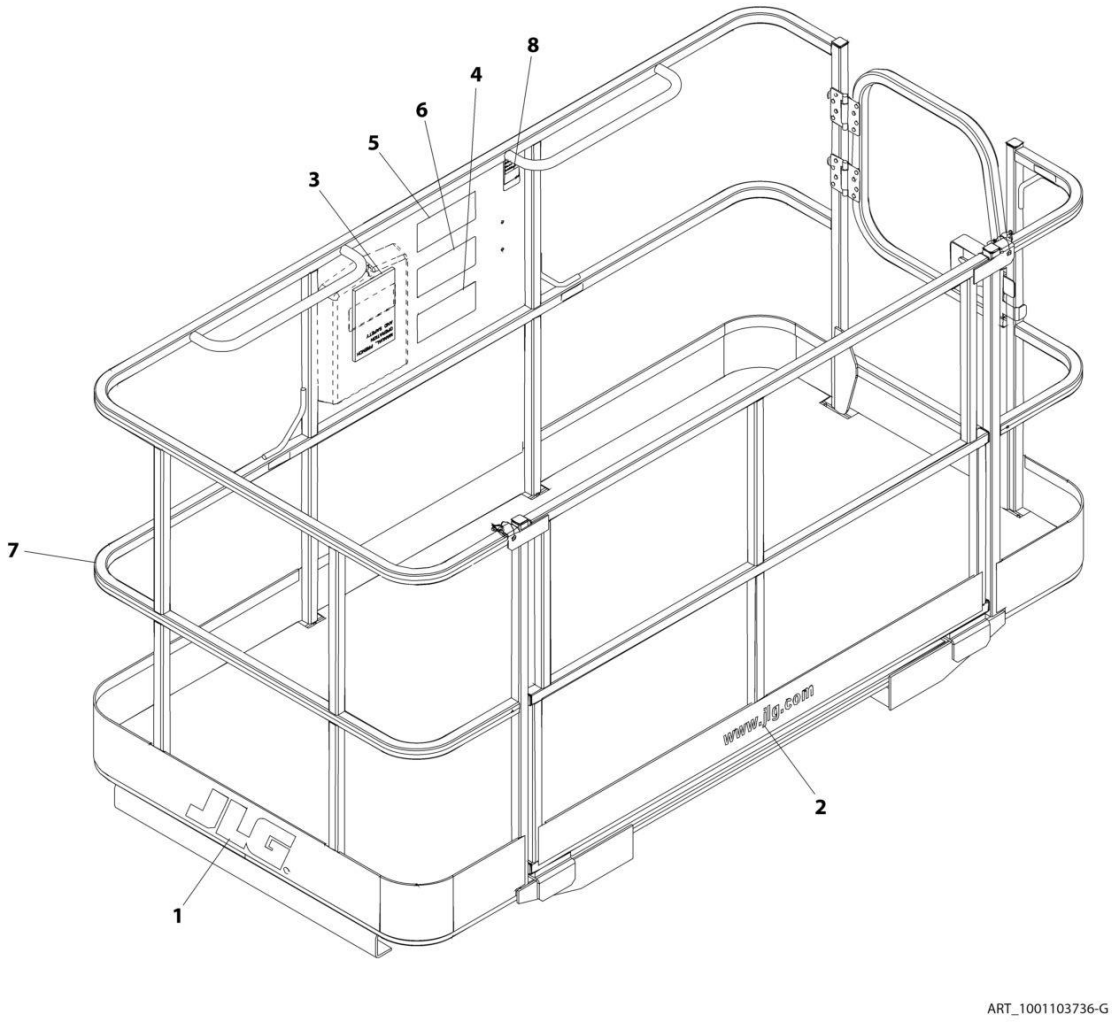


FIGURE 3-22. FORK MOUNTED BASKET (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103736	Ref	Fork Mounted Basket (France)	G
1	1702773	2	Decal, JLG	
2	1704885	1	Decal, Website	
3	31200386	1	Manual, Operation and Safety (French)	
4	1001096019	1	Decal, Warning Attachment (French)	
5	1001096020	1	Decal, Platform Capacity (French)	
6	1001096024	1	Decal, Platform Warning (French)	
7	1001096162	1	Platform, Fork Mounted (ANSI) (See Separate Breakdown in this Section)	
8	N.S.S.	1	S/N Plate	

FIGURE 3-23. FORK MOUNTED TRASH HOPPER

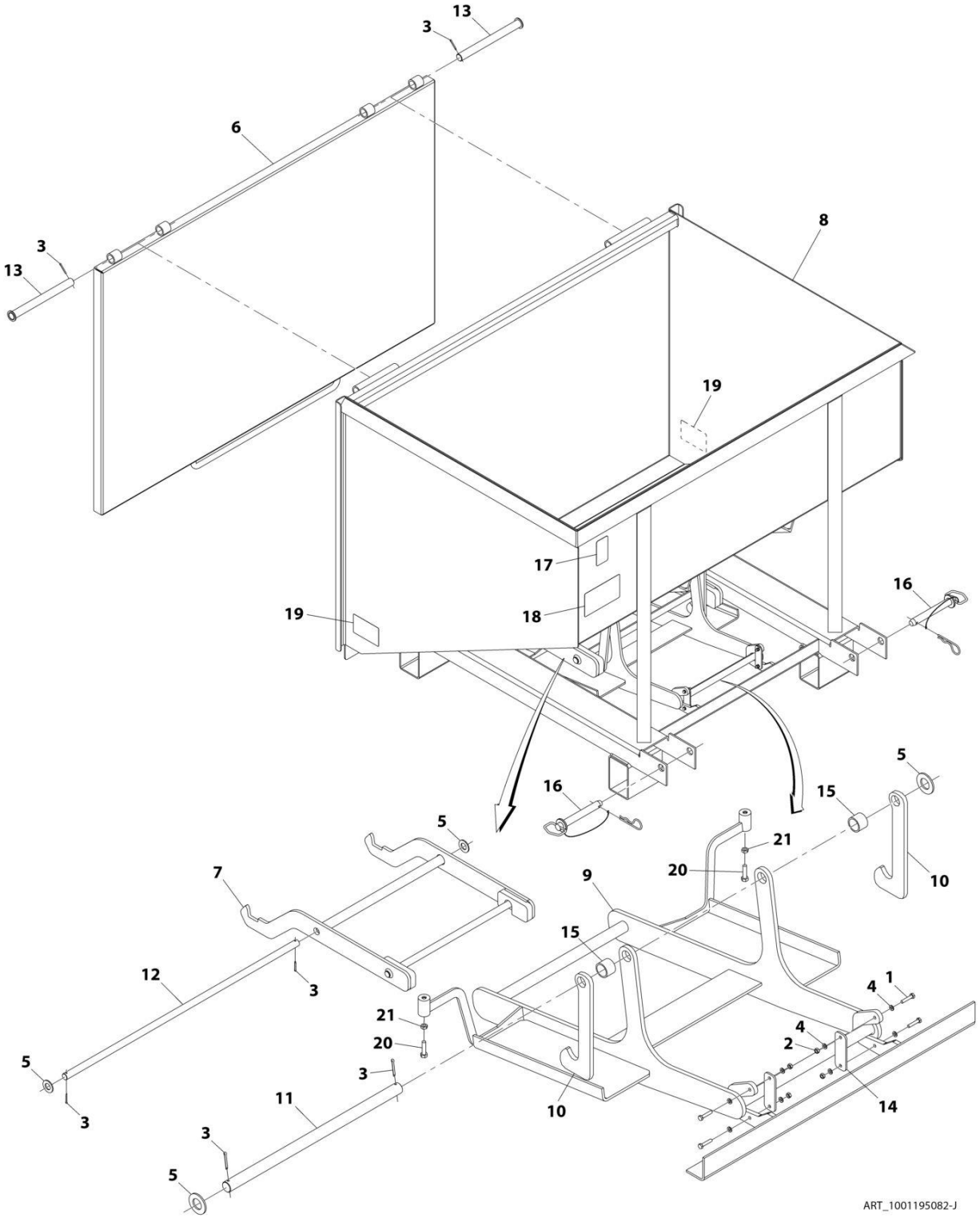


FIGURE 3-23. FORK MOUNTED TRASH HOPPER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001195082	Ref	Fork Mounted Trash Hopper	J
1	0700614	4	Bolt, M6X30	
2	3290601	4	Nut, M6X1 Grade 8	
3	3391410	6	Pin	
4	4811700	8	Washer, M6	
5	5242400	4	Washer, M24	
6	1001192711	1	Door Assembly	
7	1001192720	1	Hook Assembly	
8	N.S.S.	1	Weldment, Trash Hopper	
9	1001192875	1	Tray Assembly	
10	1001192876	2	Arm, Swing	
11	1001192877	1	Rod, Swing	
12	1001193525	1	Bar	
13	1001193540	2	Pin	
14	1001193729	2	Plate	
15	1001198355	2	Spacer	
16	1001102813	2	Pin	
17	N.S.S.	1	S/N Plate	
18	1001203503	1	Decal, Trash Hopper Operation	
19	1706302	2	Decal, Pinch Point	
20	0641510	2	Bolt, 5/16-18 x 1-1/4	
21	3311502	2	Nut, 5/16-18	

FIGURE 3-24. FORK MOUNTED PLATFORM

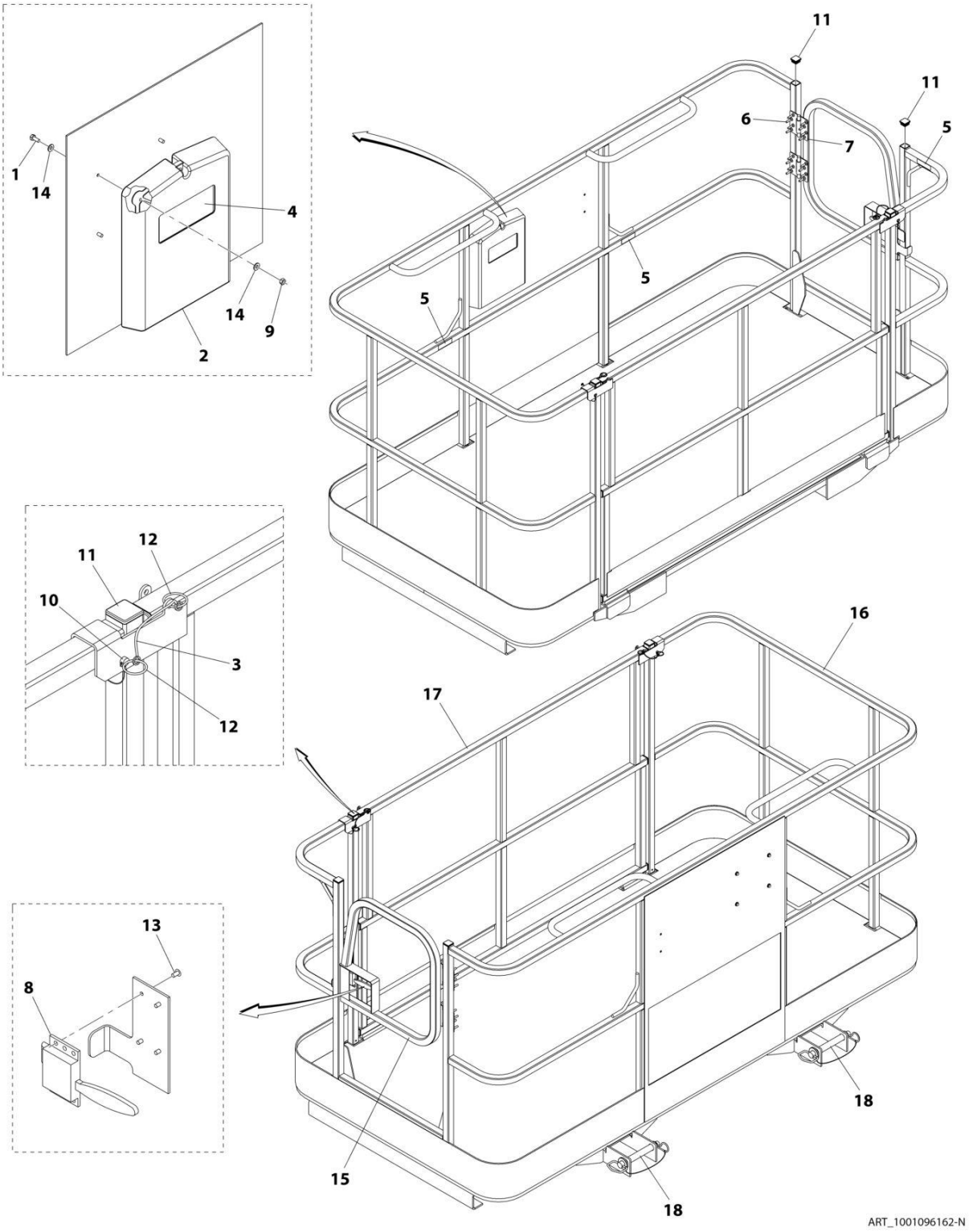


FIGURE 3-24. FORK MOUNTED PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096162	Ref	Fork Mounted Platform (ANSI)	N
1	0641405	4	Bolt, 1/4 x 5/8	
2	0860520	1	Box, Manual Storage	
3	1060379	2	Cable, Lanyard	
4	1701509	1	Decal, Manual	
5	1704277	3	Decal, Lanyard Attach	
6	2080040	16	Fastener	
7	2600281	2	Hinge	
8	2940074	1	Latch	
9	3311405	4	Nut 1/4	
10	3421453	2	Pin	
11	3520072	10	Plug	
12	3760170	4	Ring	
13	3820020	4	Rivet	
14	4711400	8	Washer, 1/4	
15	1001144629J	1	Gate	
16	N.S.S.	1	Platform, Fork Mounted	
17	1001095810	1	Gate	
18	1001102813	2	Pin, Hitch	

FIGURE 3-25. DECAL KIT

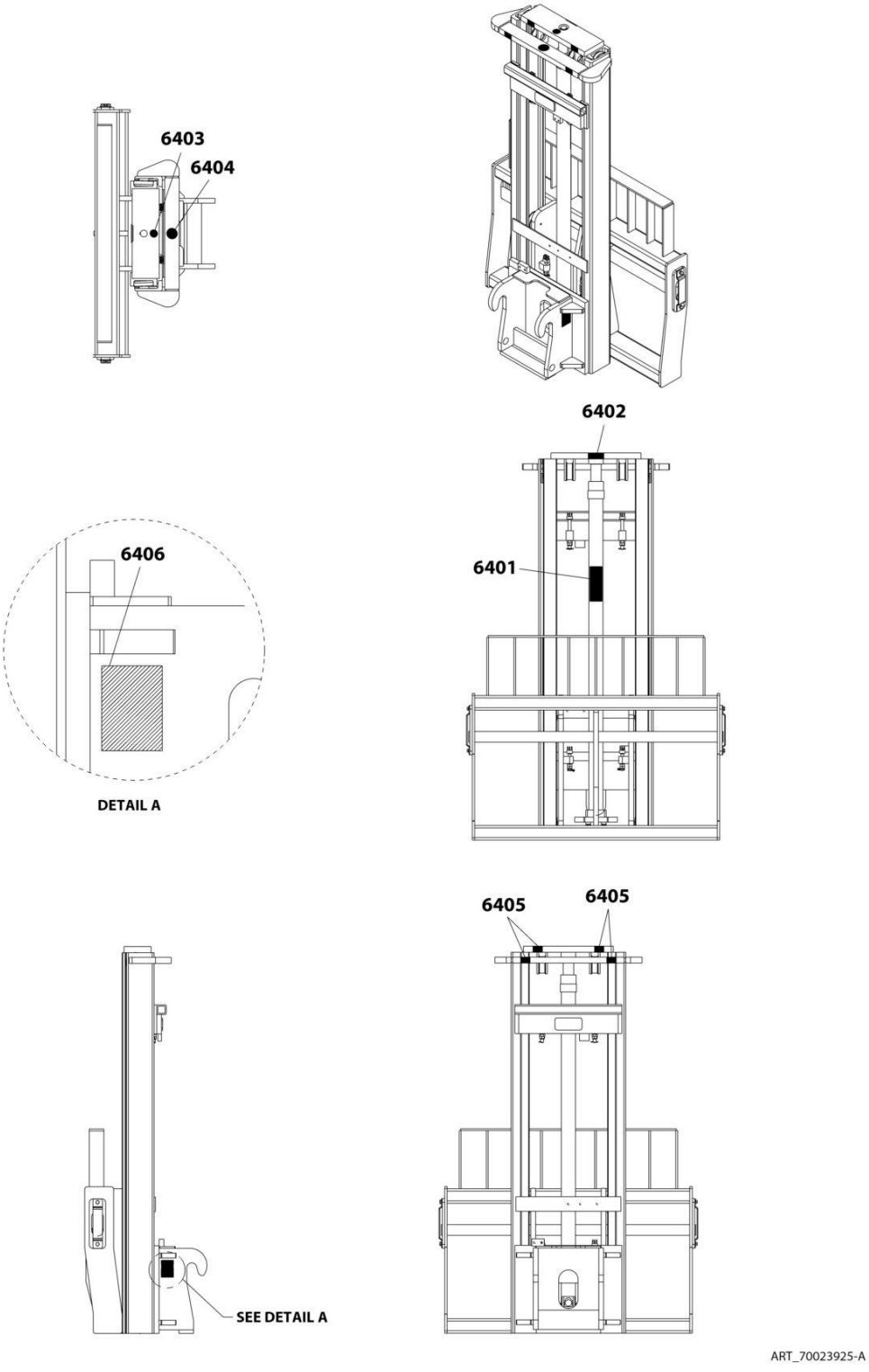


FIGURE 3-25. DECAL KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70023925	Ref	Kit, Decal	A
6401	Kit	1	Decal, Warning	
6402	Kit	1	Decal, Warning	
6403	Kit	1	Decal, No Step	
6404	Kit	1	Decal, No Step	
6405	Kit	4	Decal, Hands Off	
6406	Kit	2	Decal, Hose Routing	

FIGURE 3-26. LUMBER FORK (2"X7"X60")

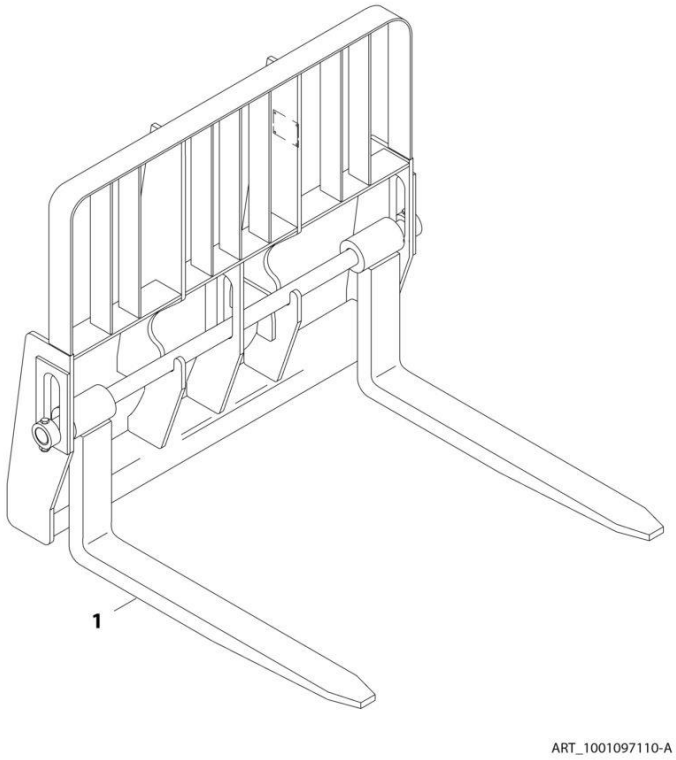


FIGURE 3-26. LUMBER FORK (2"X7"X60")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001097110	2	Lumber Fork (2.00X7X60)	A
	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-27. LUMBER FORK (2.36"X6"X60")

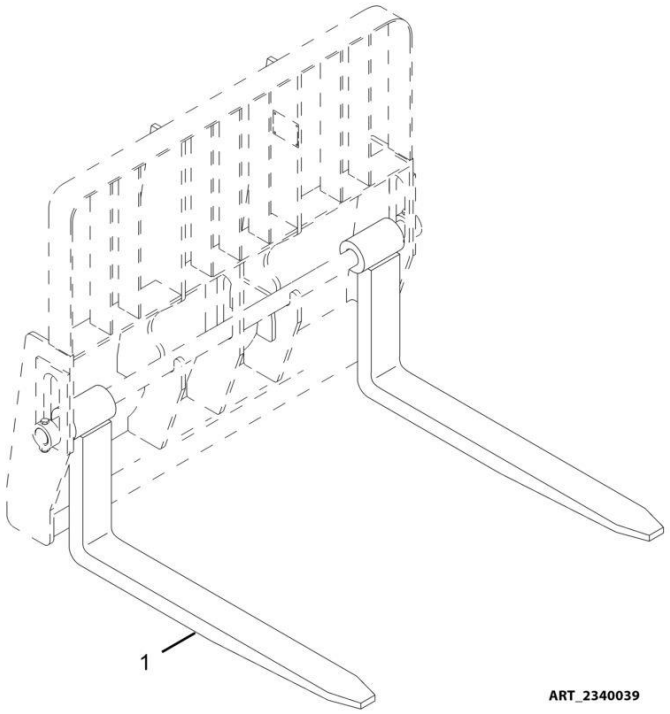


FIGURE 3-27. LUMBER FORK (2.36"X6"X60")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340039	2	Lumber Fork (60X150X1524)	
	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-28. MULTI-PURPOSE GRAPPLE BUCKET

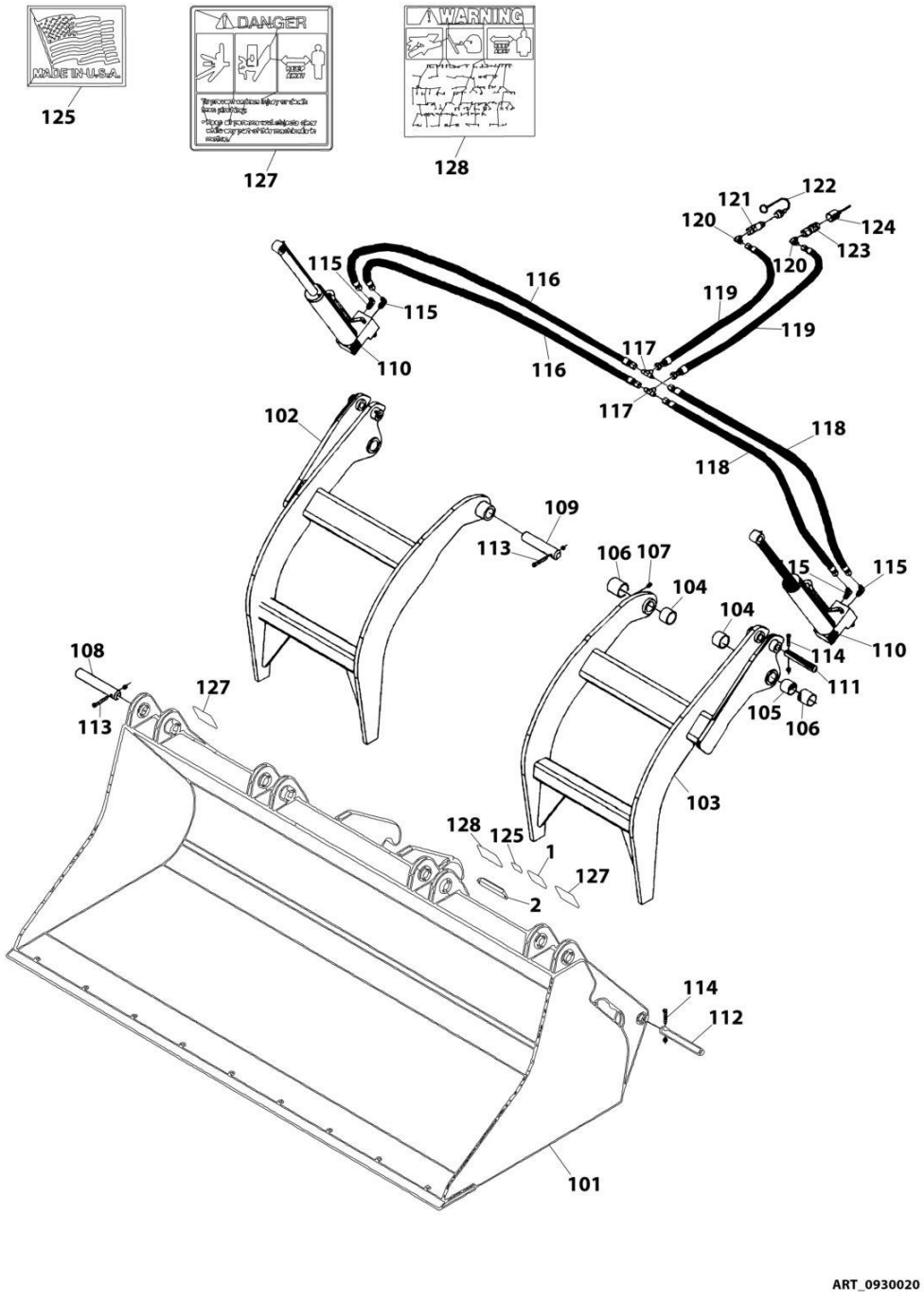


FIGURE 3-28. MULTI-PURPOSE GRAPPLE BUCKET

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

FIGURE 3-29. MAST ASSEMBLY

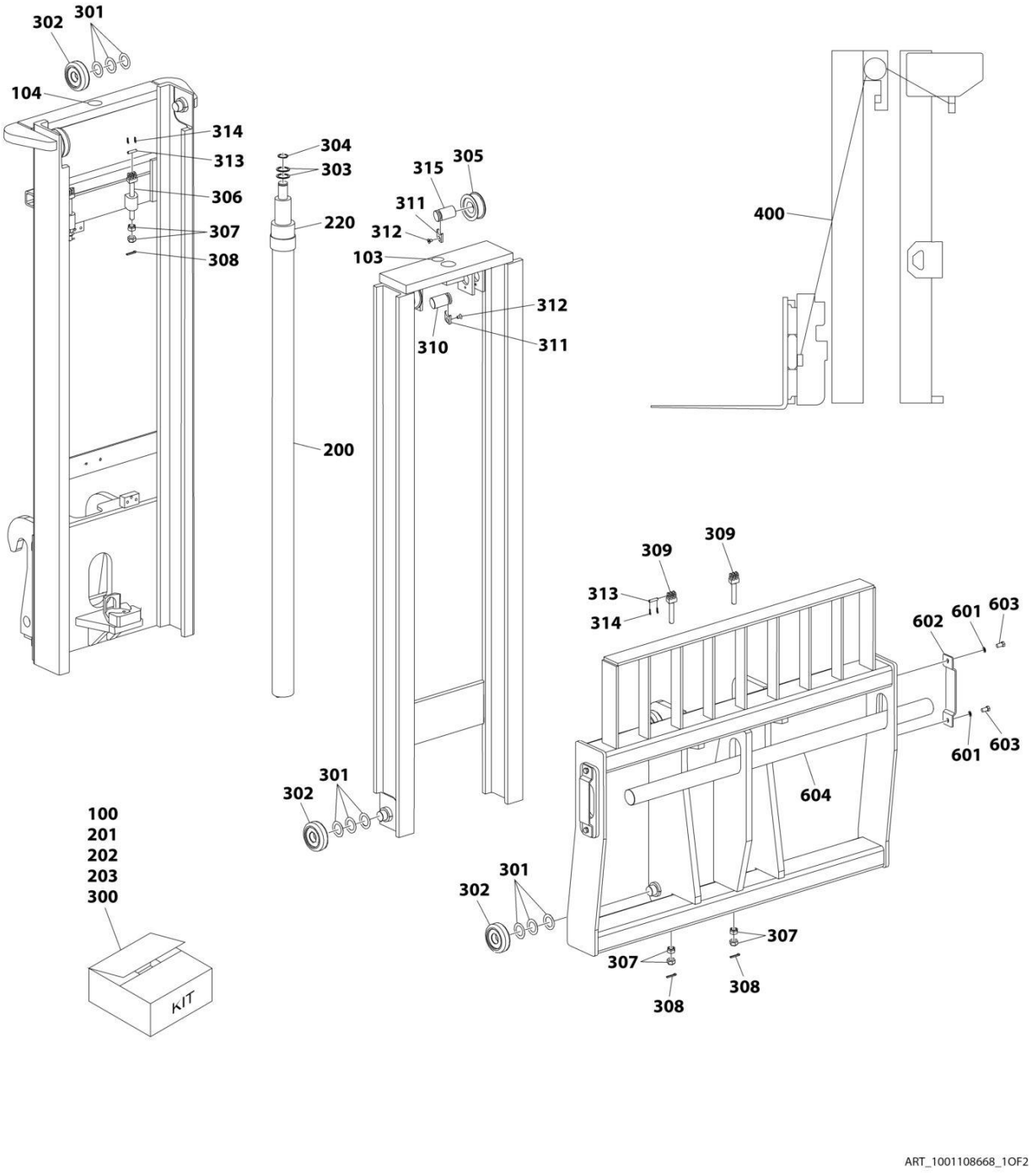


FIGURE 3-30. MAST ASSEMBLY

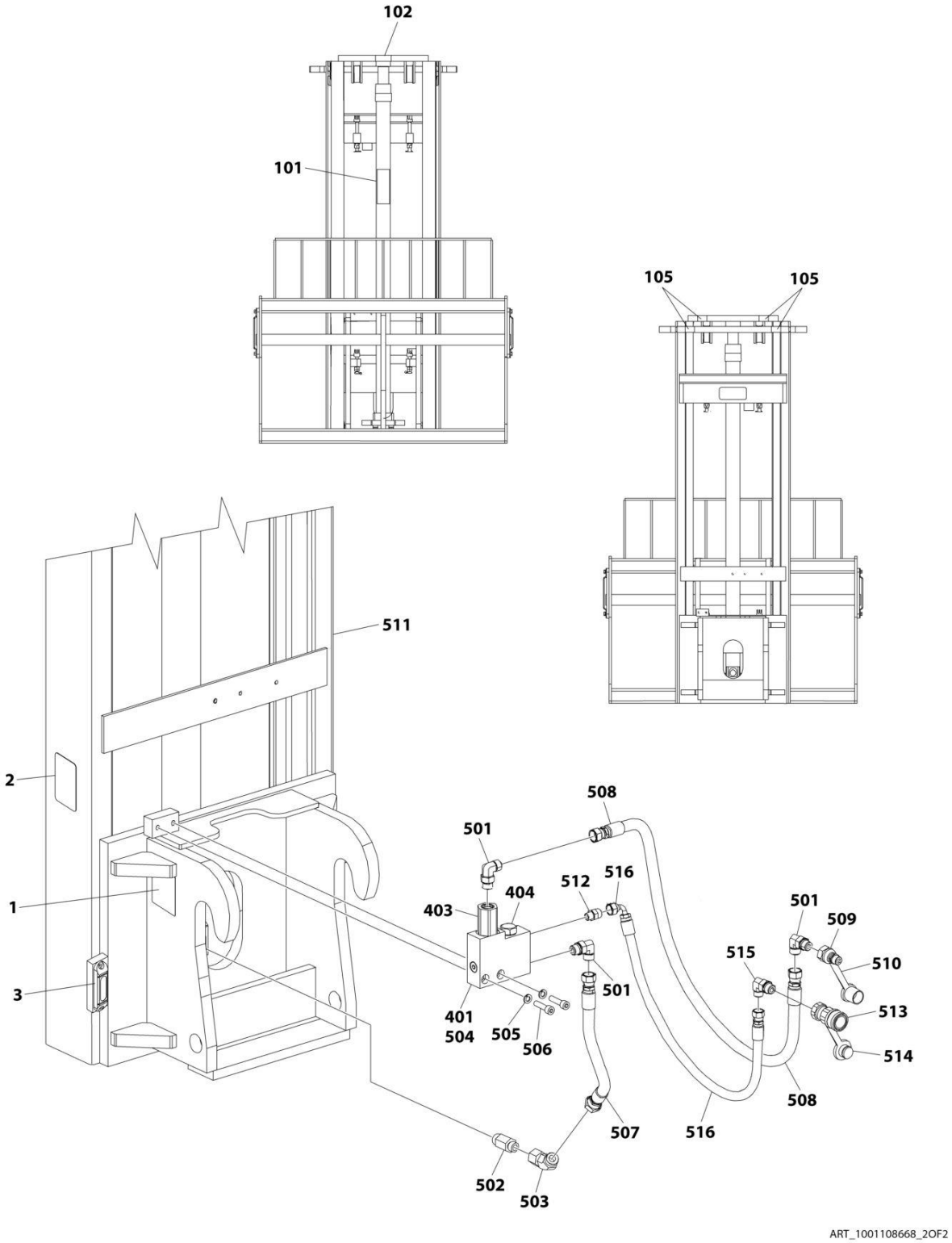


FIGURE 3-30. MAST ASSEMBLY

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

SECTION 3 - ATTACHMENTS

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

FIGURE 3-31. MAIN LIFT CYLINDER

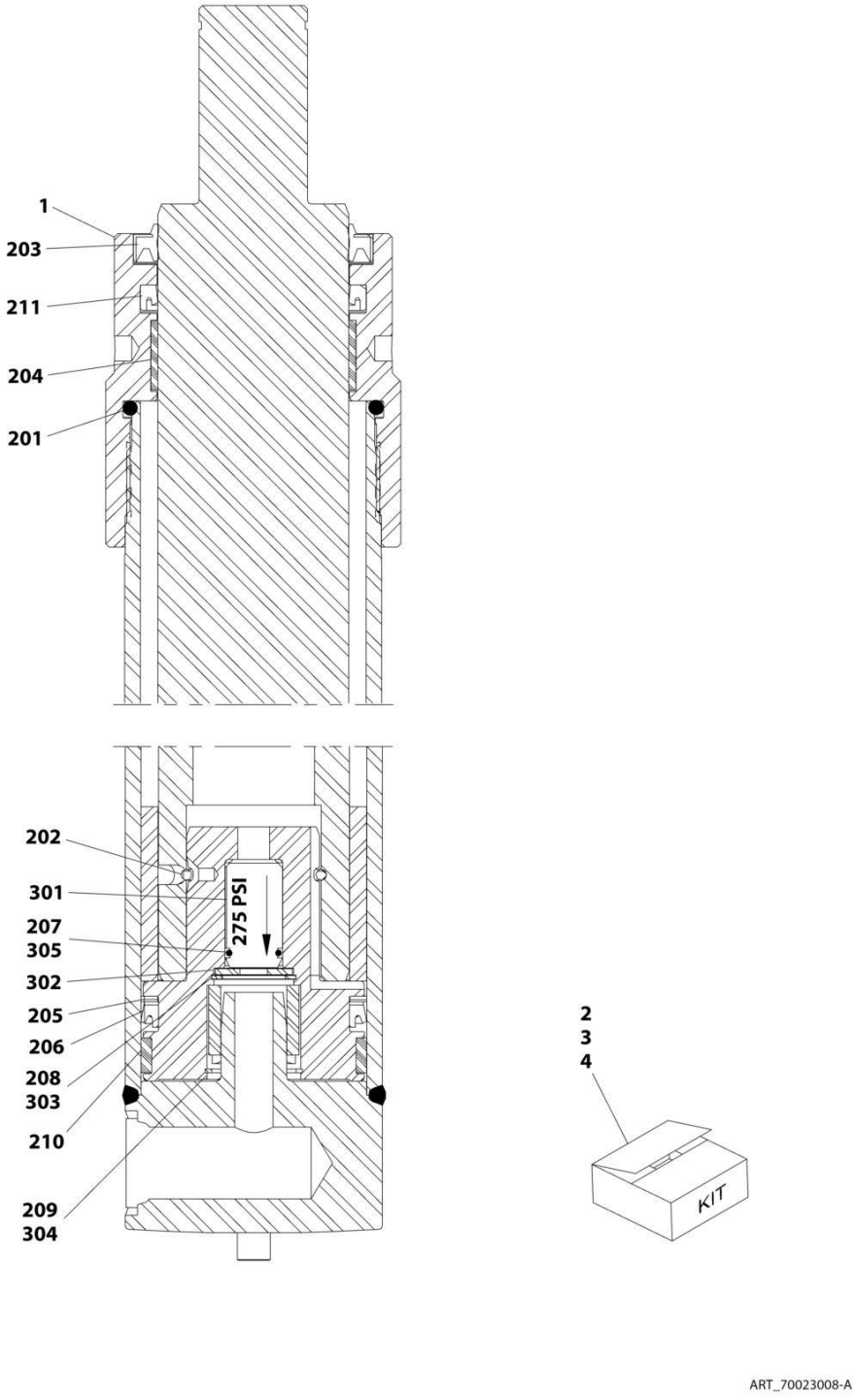


FIGURE 3-31. MAIN LIFT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70023008	Ref	Main Lift Cylinder	A
1	70023004	1	Retainer/Gland	
2	70023005	1	Seal Kit, Main Lift Cylinder	
201	Kit	1	O-Ring	
202	Kit	1	Wire, Pull	
203	Kit	1	Wiper	
204	Kit	1	Bushing	
205	Kit	1	Ring, Nylon	
206	Kit	1	Seal, Piston	
207	Kit	1	O-Ring	
208	Kit	1	Circlip	
209	Kit	1	Ring, Retaining	
210	Kit	1	Ring, Wear	
211	Kit	1	Seal, Rod	
3	70023006	1	Kit, Check Valve	
301	Kit	1	Valve, Check	
302	Kit	1	Washer	
303	Kit	1	Circlip	
304	Kit	1	Ring, Retaining	
304	Kit	1	O-Ring	
4	70023007	1	Kit, Shim	

FIGURE 3-32. PALLET FORK (2.4"X4"48")

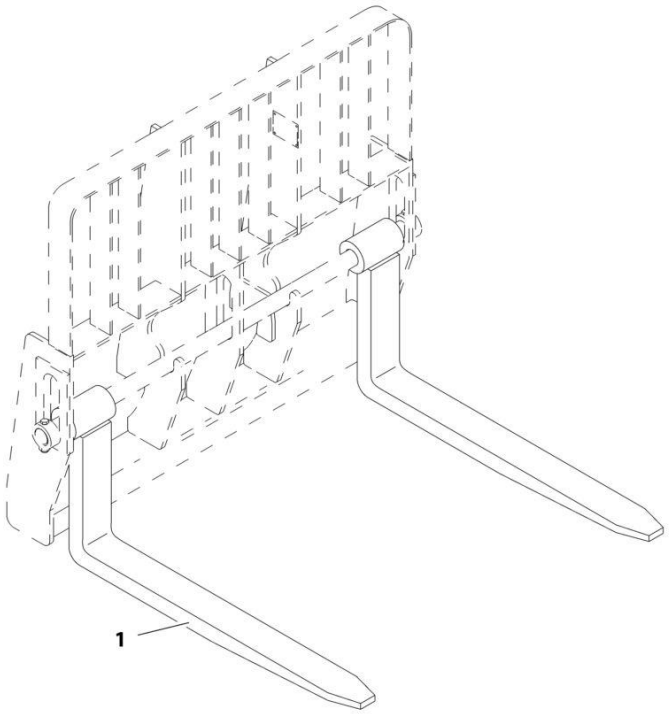


FIGURE 3-32. PALLET FORK (2.4"X4"48")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340045	2	Pallet Fork (2.36X4X48)	
	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-33. PALLET FORK (2.4"X5"X48")

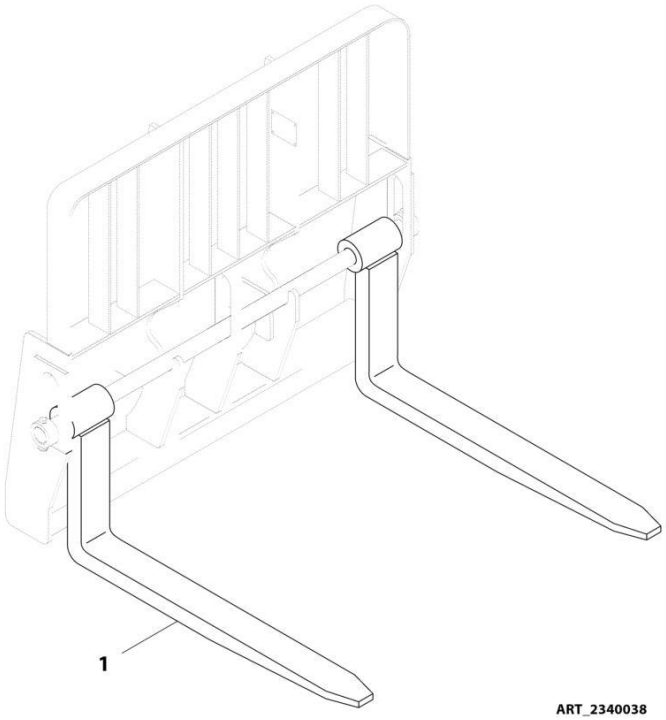
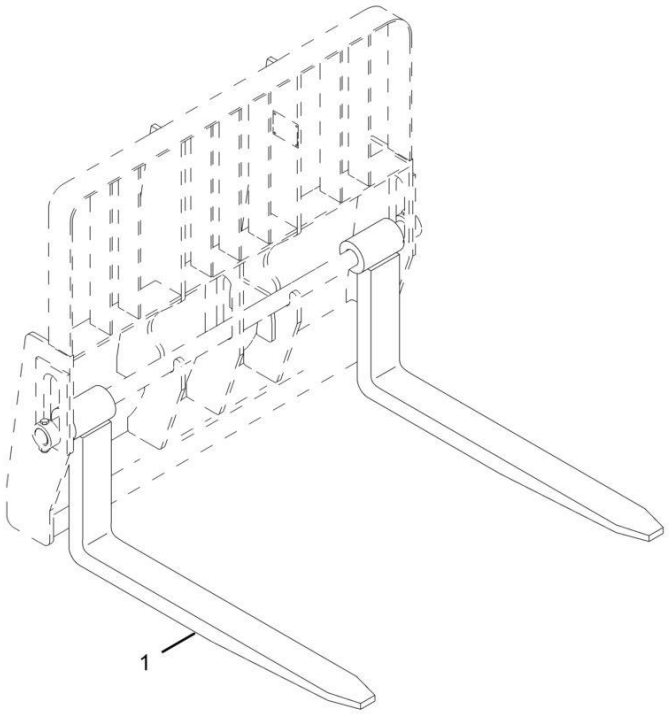


FIGURE 3-33. PALLET FORK (2.4"X5"X48")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2340038	2	Pallet Fork (2.36X5X48)	B
	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-34. PALLET FORK (2"X6"X72")



ART_1001092391

FIGURE 3-34. PALLET FORK (2"X6"X72")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001092391	2	Dual Taper Fork (2.00X6X72)	C
N1	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
N2	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-35. PALLET FORK (2.4"X4"48")(WITH FORK POSITIONING CARRIAGE)

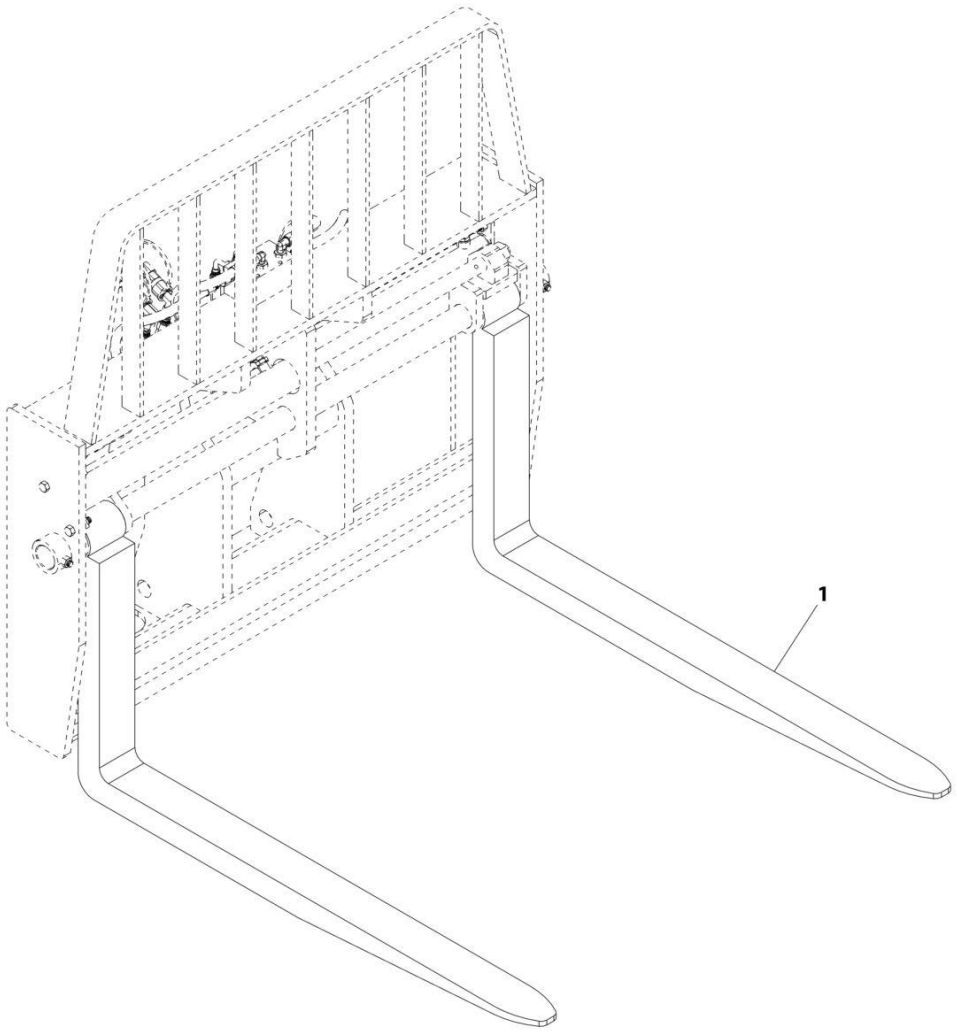
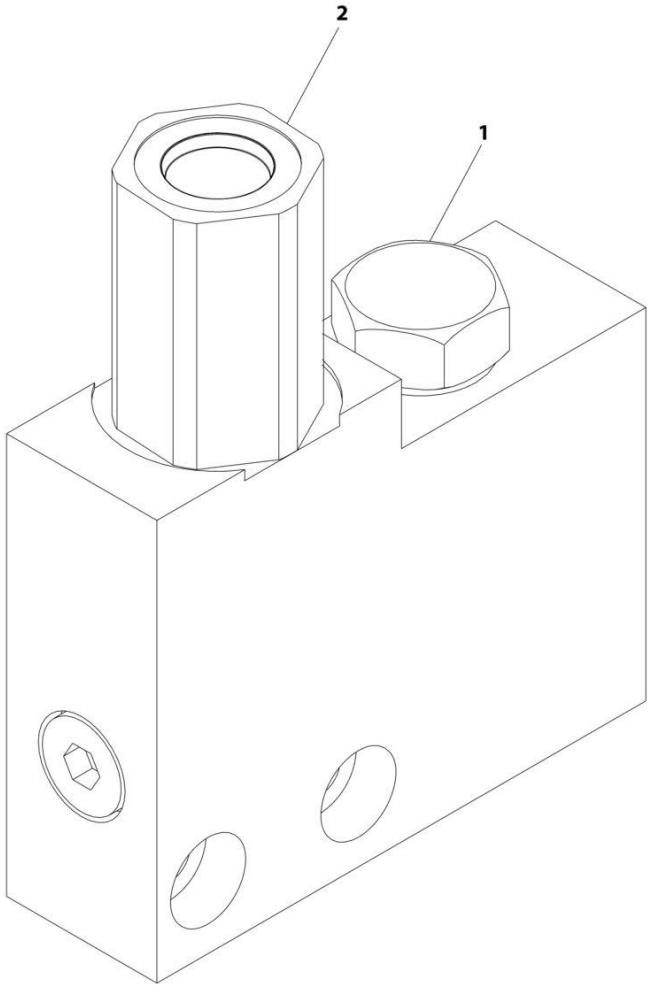


FIGURE 3-35. PALLET FORK (2.4"X4"48")(WITH FORK POSITIONING CARRIAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7301408	2	Pallet Fork (2.36X4X48)	D
N1	Note	Ref	**FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS. FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.**	
N2	Note	Ref	**PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.**	

FIGURE 3-36. PO CHECK VALVE ASSEMBLY



ART_70022932-A

FIGURE 3-36. PO CHECK VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70022932	Ref	PO Check Valve	A
1	70022931	1	Cartridge, PO Check Valve	
2	70023010	1	Check, PO	

FIGURE 3-37. SIDE TILTING CARRIAGE (50")

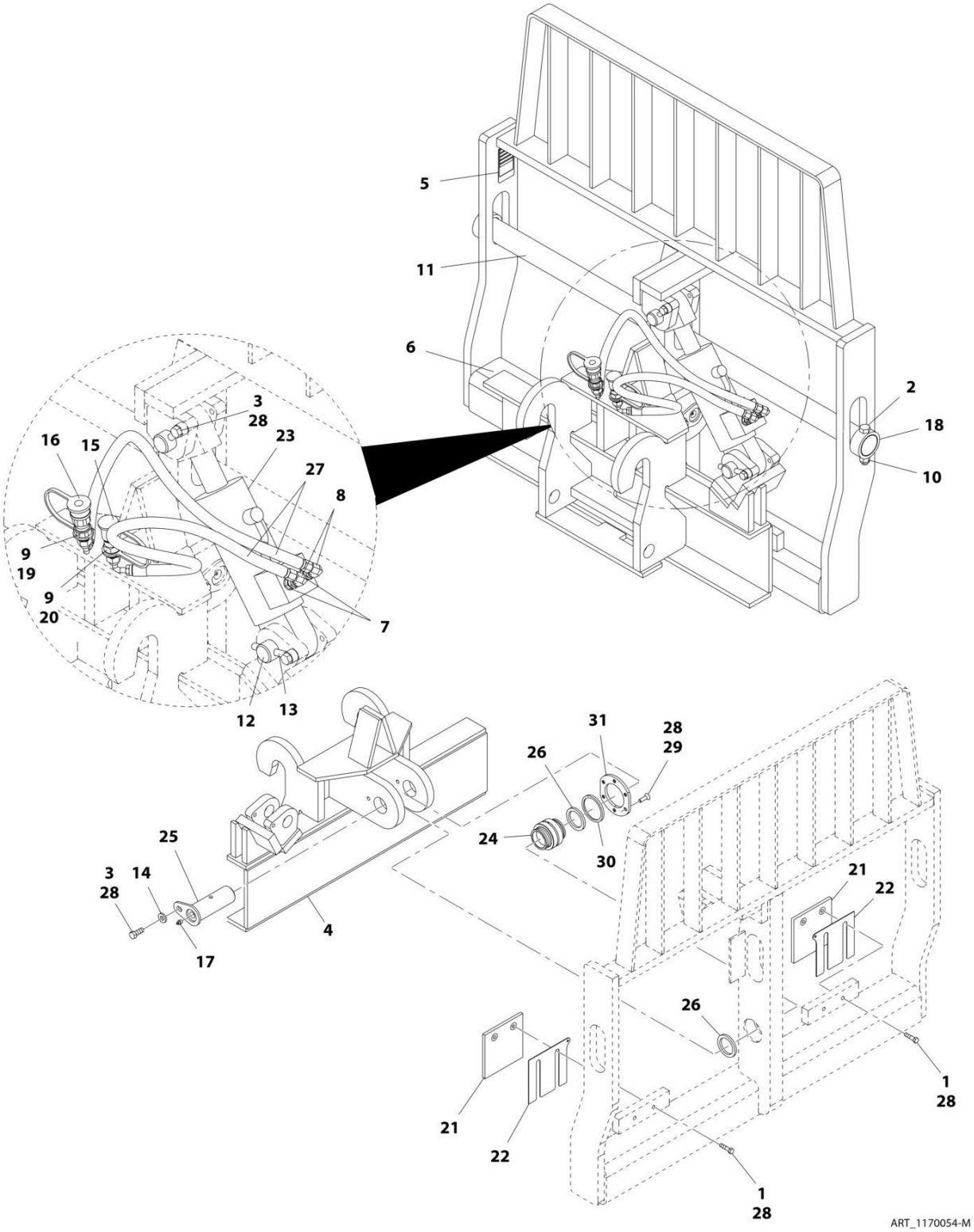


FIGURE 3-37. SIDE TILTING CARRIAGE (50")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170054	1	Side Tilting Carriage (4.5 ton - 1270 MM)	M
1	0641612	4	Bolt, 3/8-16X1-1/2	
2	0642032	2	Bolt, 5/8-11X4	
3	0681810	3	Bolt, 1/2-13X1-1/4	
4	1001133072	1	Carriage, Base Pivot	
5	N.S.S.	1	Plate, Serial Number	
6	N.S.S.	1	Carriage, Side Tilt	
7	2110606	2	Fitting, Straight ORFS	
8	2172106	2	Fitting, 90 ORFS	
9	2110808	2	Fitting, Straight ORFS	
10	3300240	2	Nut, Locking 5/8-11	
11	3423275	1	Pin, Fork	
12	3423307	2	Pin	
13	3841203	2	Keeper	
14	4891800	1	Flatwasher	
15	8420053	1	Cap	
16	8420055	1	Plug	
17	88671001	1	Fitting, Grease	
18	90200003	2	Collar	
19	91403413	1	Fitting	
20	91403414	1	Fitting	
21	1001090063	2	Pad	
22	1001090064	AR	Shim	
23	1001163414	1	Cylinder, Side Tilt (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
24	1001090140	1	Bearing	
25	1001099113	1	Pin	
26	1001099115	2	Sleeve	
27	1001102378	2	Hose	
28	0100011	AR	Compound, Locking	
29	0741610	6	Screw, 3/8-16X1.25	
30	1001120914	1	Shim	
31	1001120915	1	Plate	

FIGURE 3-38. SIDE TILTING CARRIAGE (60")

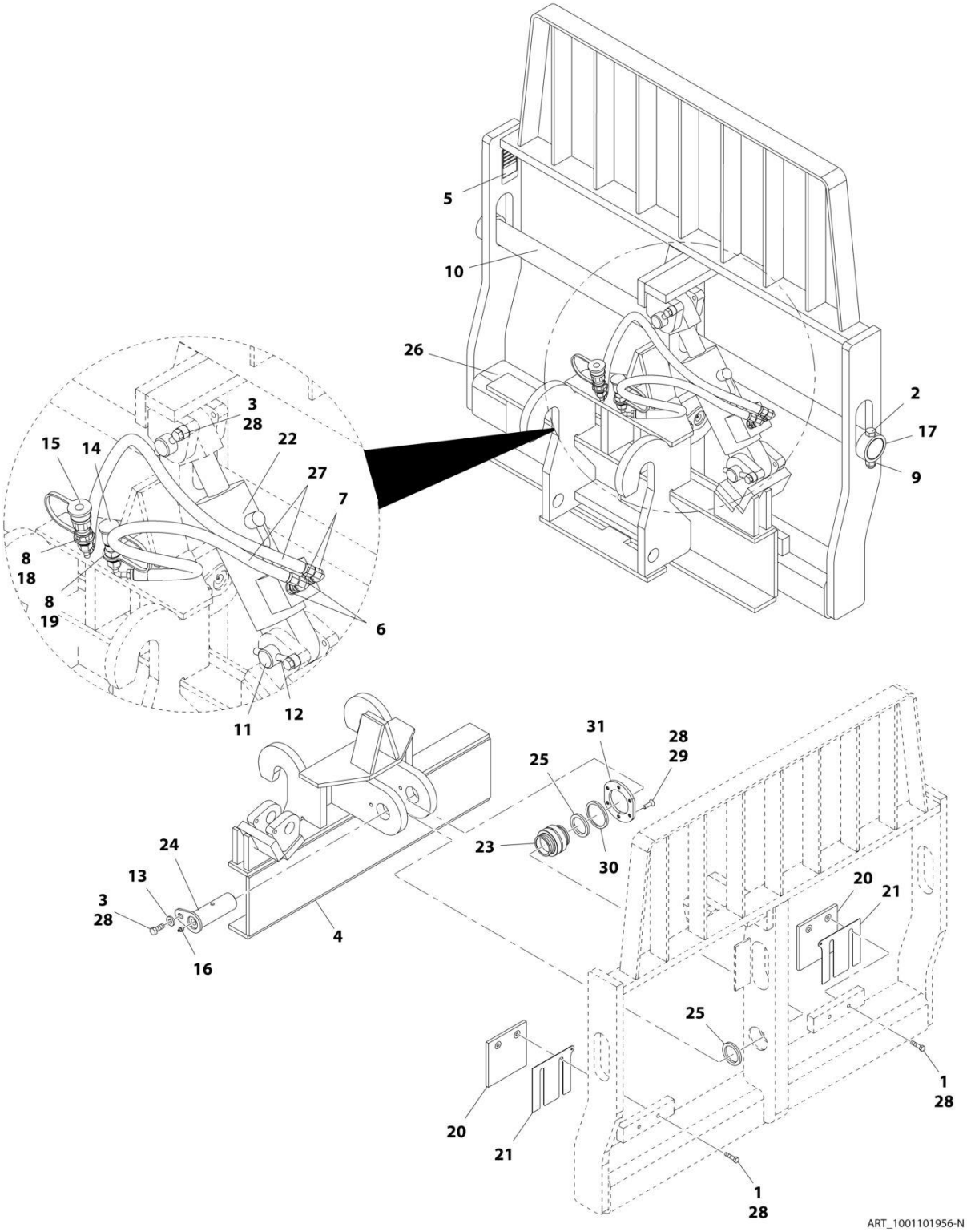


FIGURE 3-38. SIDE TILTING CARRIAGE (60")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101956	Ref	Side Tilting Carriage (4.5 ton - 1575 MM)	N
1	0641612	4	Bolt, 3/8-16X1-1/2	
2	0642032	2	Bolt, 5/8-11X4	
3	0681810	3	Bolt, 1/2-13X1-1/4	
4	1001133072	1	Carriage, Base Pivot	
5	N.S.S.	1	Plate, Serial Number	
6	2110606	2	Fitting, Straight ORFS	
7	2172106	2	Fitting, 90 ORFS	
8	2110808	2	Fitting, Straight ORFS	
9	3300240	2	Nut, Locking 5/8-11	
10	3423242	1	Pin, Fork	
11	3423307	2	Pin	
12	3841203	2	Keeper	
13	4891800	1	Flatwasher	
14	8420053	1	Cap	
15	8420055	1	Plug	
16	88671001	1	Fitting, Grease	
17	90200003	2	Collar	
18	91403413	1	Fitting	
19	91403414	1	Fitting	
20	1001090063	2	Pad	
21	1001090064	AR	Shim	
22	1001163414	1	Cylinder, Side Tilt (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
23	1001090140	1	Bearing	
24	1001099113	1	Pin, Frame Pivot	
25	1001099115	2	Spacer	
26	N.S.S.	1	Carriage, Side Tilting	
27	1001102378	2	Hose	
28	0100011	AR	Compound, Locking	
29	0741610	6	Screw, 3/8-16X1.25	
30	1001120914	1	Shim	
31	1001120915	1	Plate	

FIGURE 3-39. SIDE TILTING CARRIAGE (72")

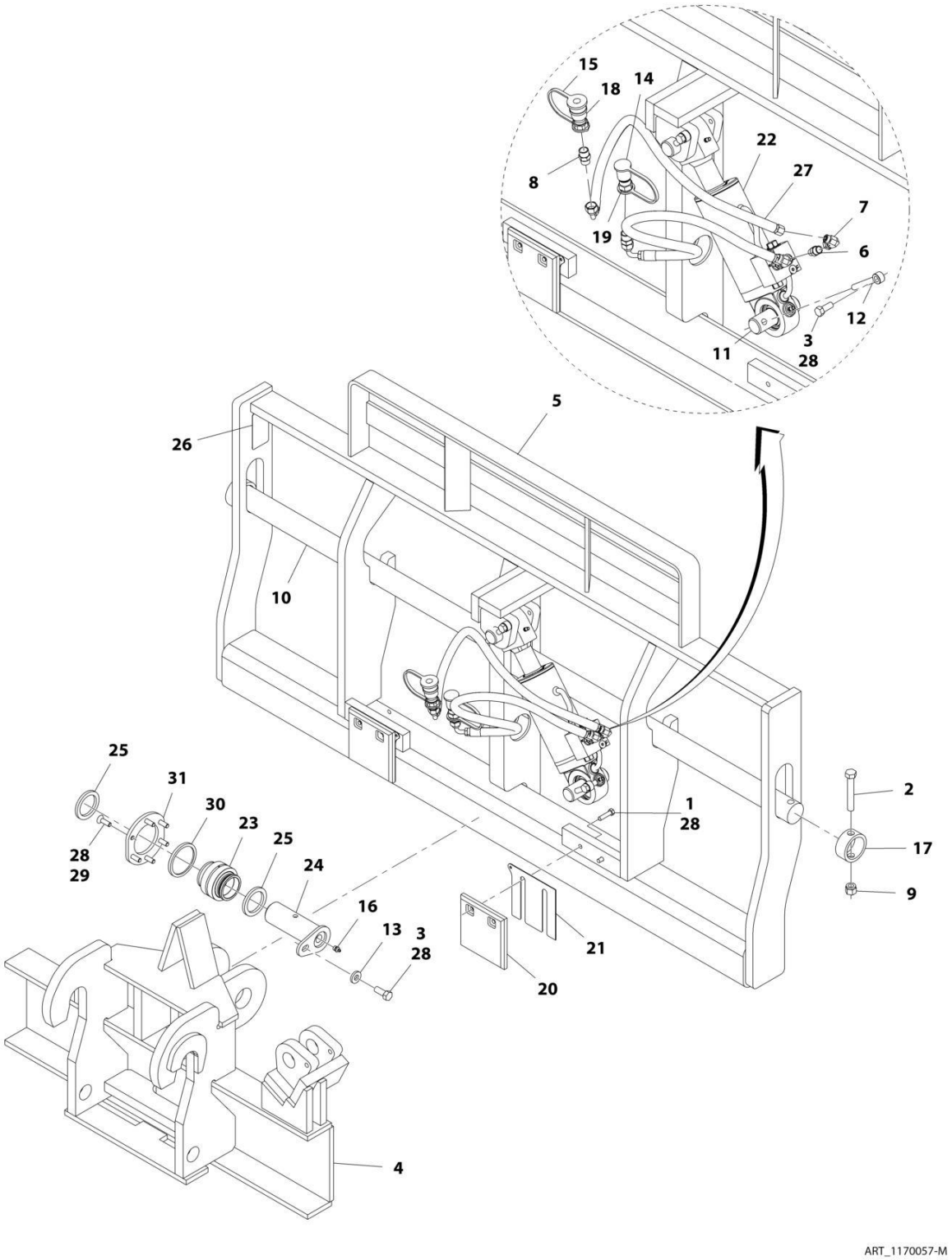


FIGURE 3-39. SIDE TILTING CARRIAGE (72")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170057	Ref	Side Tilting Carriage (4.5 ton - 1829 MM)	M
1	0641612	4	Bolt, 3/8-16X1-1/2	
2	0642032	2	Bolt, 5/8-11X4	
3	0681810	3	Bolt, 1/2-13X1-1/4	
4	1001133072	1	Carriage, Base Pivot	
5	N.S.S.	1	Carriage, Side Tilting	
6	2110606	2	Fitting, Straight ORFS	
7	2172106	2	Fitting, 90 ORFS	
8	2110808	2	Fitting, Straight ORFS	
9	3300240	2	Nut, Locking 5/8-11	
10	3423276	1	Pin, Fork	
11	3423307	2	Pin	
12	3841203	2	Keeper	
13	4891800	1	Flatwasher	
14	8420053	1	Cap	
15	8420055	1	Plug	
16	88671001	1	Fitting, Grease	
17	90200003	2	Collar	
18	91403413	1	Fitting	
19	91403414	1	Fitting	
20	1001090063	2	Pad	
21	1001090064	AR	Shim	
22	N.S.S.	1	Cylinder, Side Tilt (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
23	1001090140	1	Bearing	
24	1001099113	1	Pin	
25	1001099115	2	Sleeve	
26	N.S.S.	1	Plate, Serial Number	
27	1001102378	2	Hose	
28	0100011	AR	Compound, Locking	
29	0741610	6	Screw, 3/8-16X1.25	
30	1001120914	1	Shim	
31	1001120915	1	Plate	

FIGURE 3-40. SIDE SHIFT CARRIAGE(50")

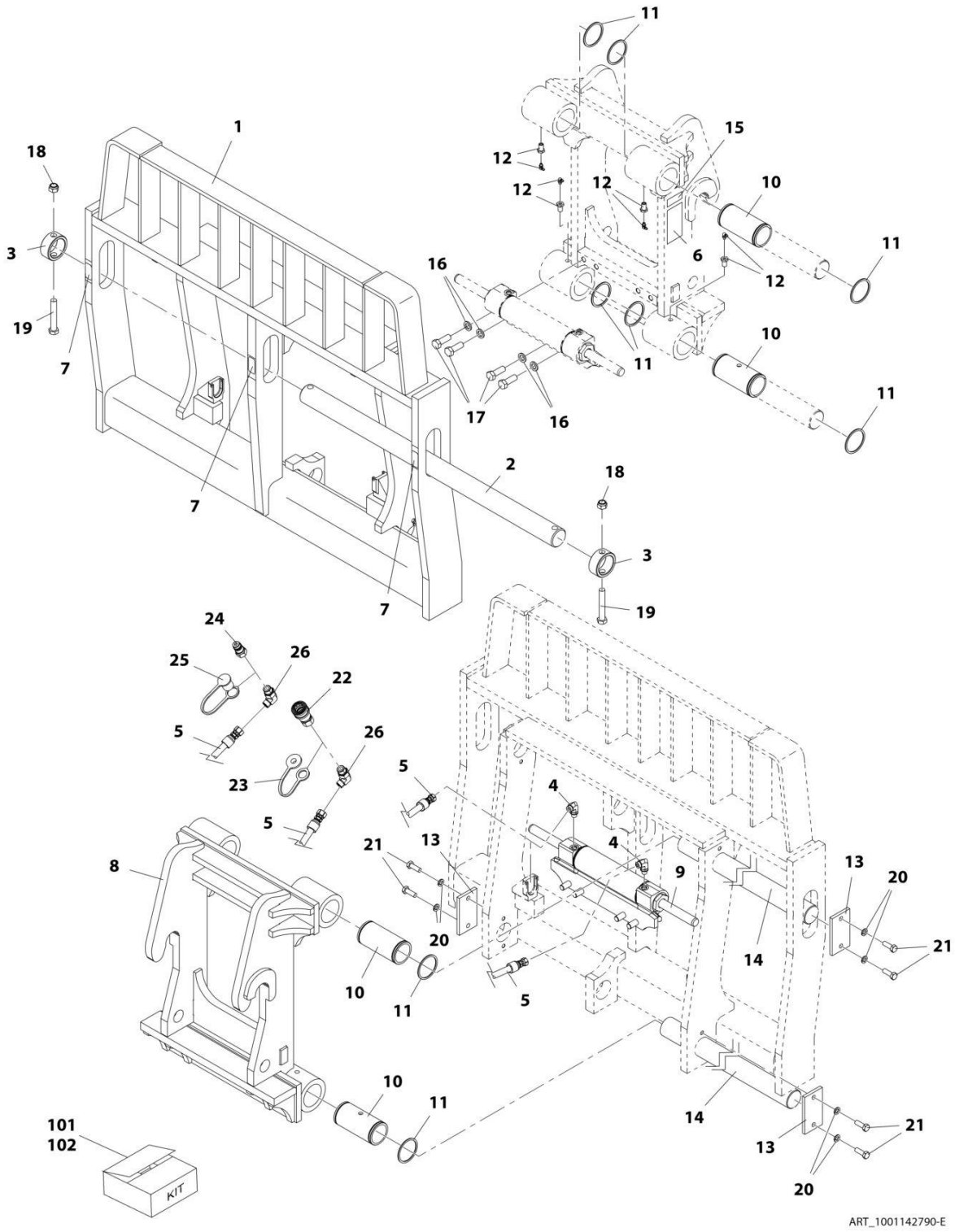


FIGURE 3-40. SIDE SHIFT CARRIAGE(50")

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142790	Ref	Side Shift Carriage (5.5 ton - 1270 MM)	E
1	N.S.S.	1	Weldment	
2	70024535	1	Shaft	
3	70024536	2	Collar	
4	70024123	2	Fitting, 90	
5	70024537	2	Hose	
6	N.S.S.	1	S/N Plate	
7	70024538	3	Decal, Warning	
8	N.S.S.	1	Weldment	
9	70024539	1	Cylinder, Side Shift (ANSI) (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
10	70024540	4	Bushing	
11	70024541	8	Circlip	
12	70024542	4	Fitting, Grease	
13	70024543	4	Retainer	
14	70024544	2	Shaft	
15	N.S.S.	1	S/N Plate	
16	70024551	4	Washer, Lock M16	
17	70024552	4	Bolt, M16X45	
18	70024553	2	Nut, Hex M16	
19	70024554	2	Bolt, M16X100	
20	70022997	8	Washer, Lock M12	
21	70024555	8	Bolt, M12X35	
22	91403413	1	Fitting, Straight	
23	8420055	1	Plug	
24	91403414	1	Fitting, Straight	
25	8420053	1	Cap, Dust	
26	70024550	2	Fitting, 90	
101	70024545	1	Kit, Hydraulic Repair (includes items 5 & 22 thru 26)	
102	70024546	1	Kit, Retainer (includes items 13, 20 & 21)	

FIGURE 3-41. SIDE TILT ELECTRIC MAST

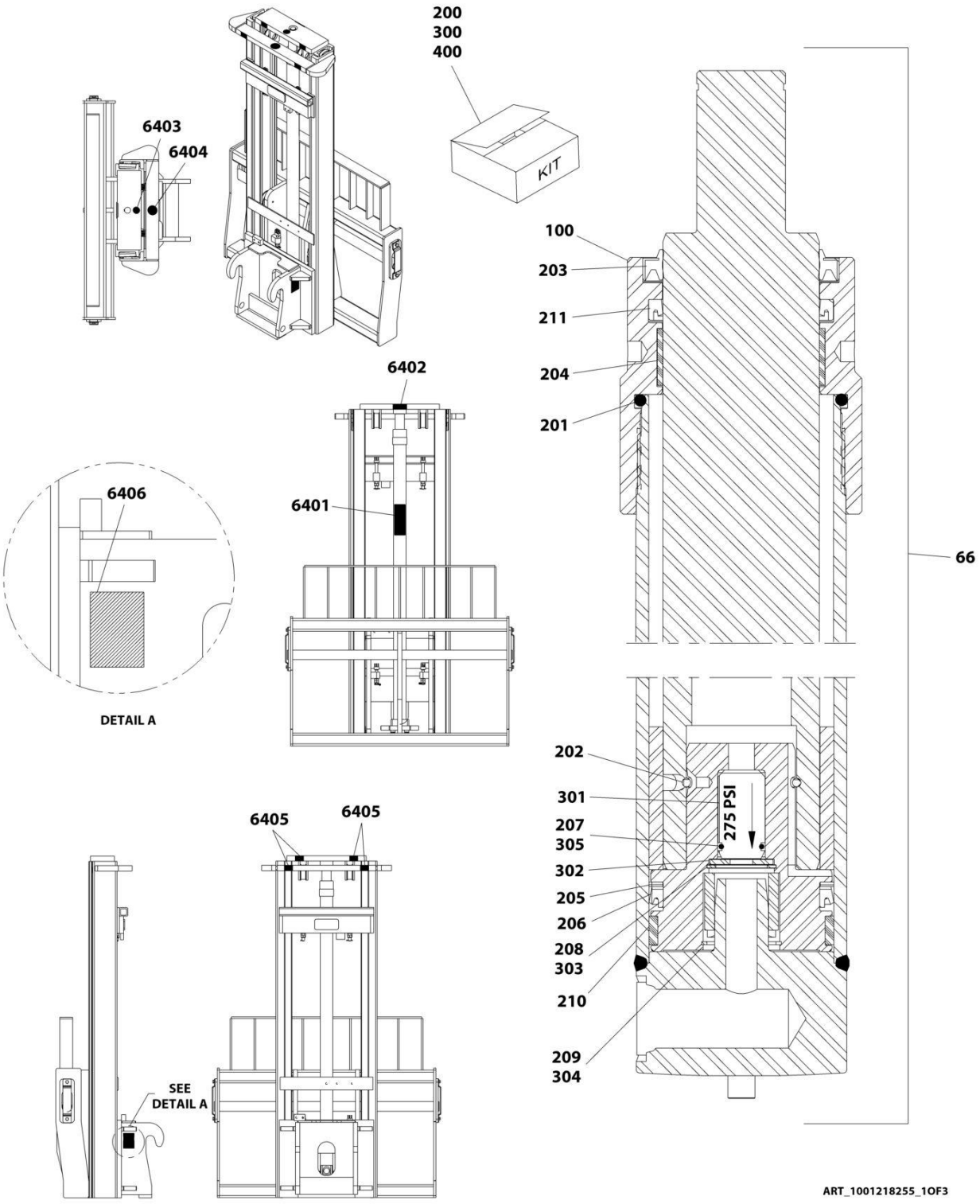


FIGURE 3-42. SIDE TILT ELECTRIC MAST

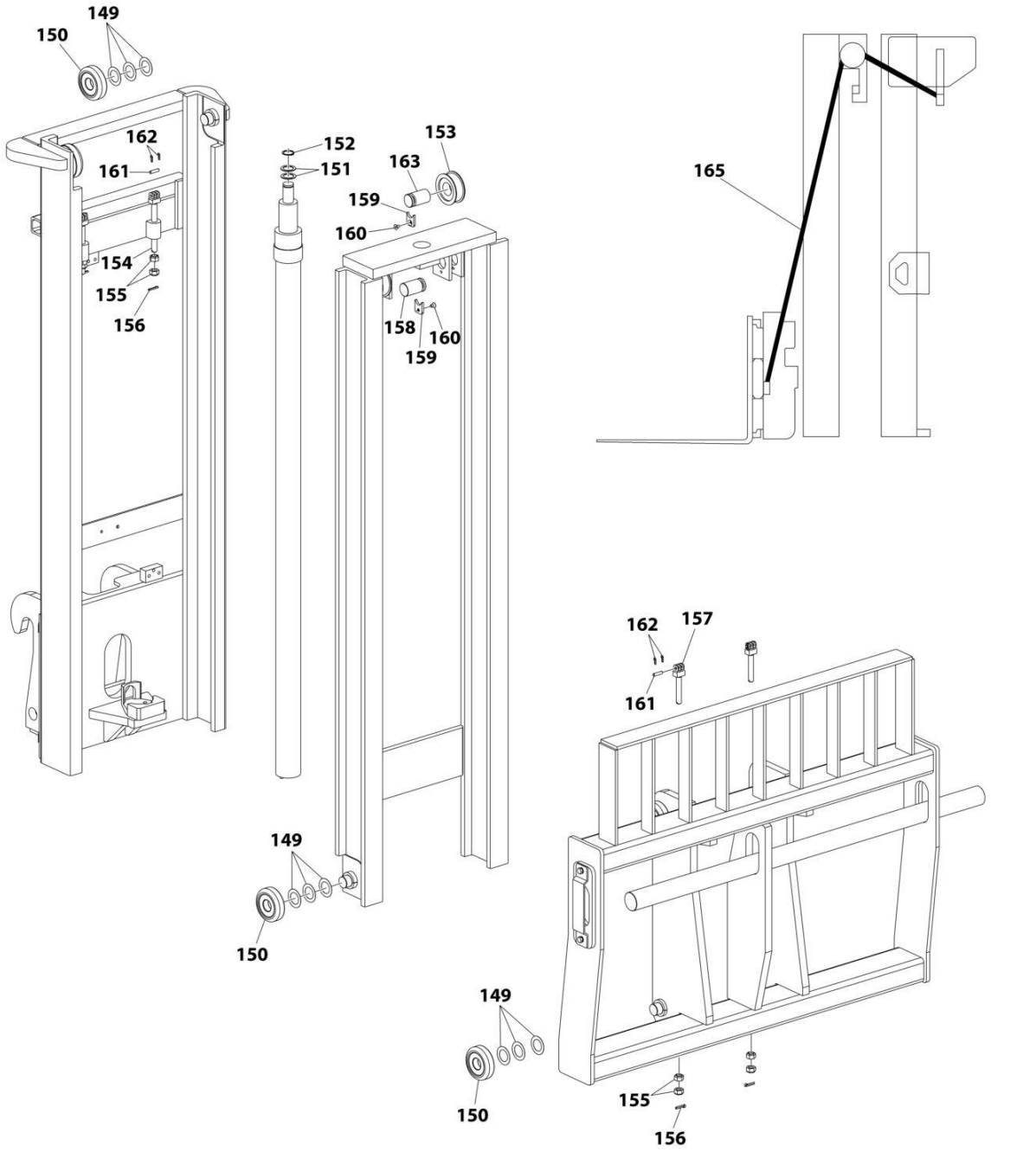


FIGURE 3-43. SIDE TILT ELECTRIC MAST

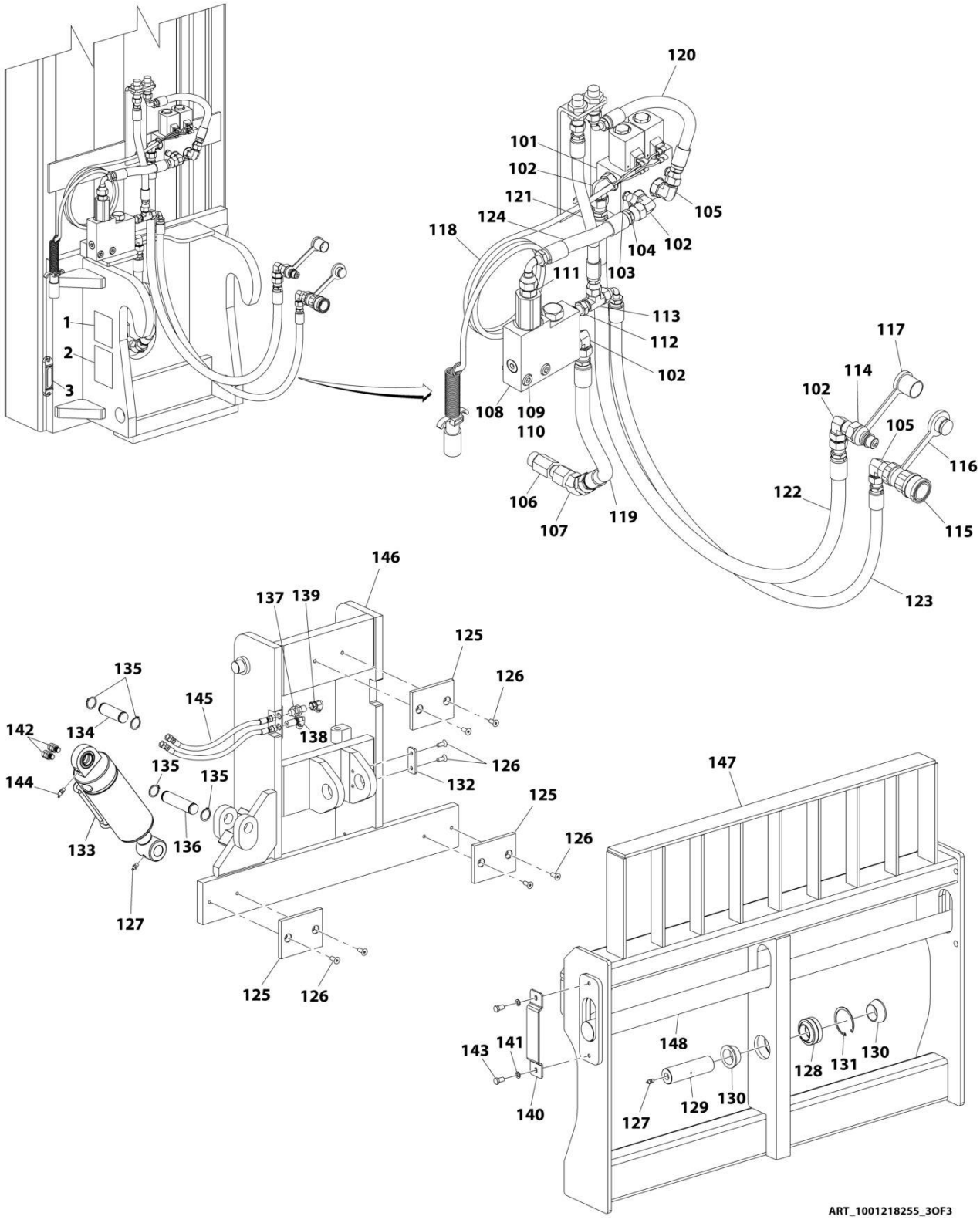


FIGURE 3-43. SIDE TILT ELECTRIC MAST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218255	Ref	Side Tilt Electric Mast (8 Foot)	F
1	1001111190	2	Decal, Hose Routing	
2	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
3	1001227670	1	Tag, RFID	
101	70022933	1	Solenoid Valve Bank	
102	70022934	4	Fitting, 90	
103	70022948	2	Washer, Lock M8	
104	70022951	2	Screw, M8X60	
105	70022935	2	Elbow, Straight Thread	
106	70022936	1	Limiter, Flow	
107	70022937	1	Fitting, 45	
108	70022932	1	Assembly, PO Check Valve	
108	N.S.S.	1	Manifold	
108	70022931	1	Cartridge, PO Check Valve	
108	70023010	1	Check, PO	
109	70022949	2	Washer, Lock M10	
110	70022950	2	Bolt	
111	70022938	1	Fitting, Straight	
112	70022939	1	Fitting, Straight	
113	70022940	1	Tee Fitting	
114	91403414	1	Adapter, Male Quick Disconnect	
115	91403413	1	Adapter, Female Quick Disconnect	
116	8420055	1	Cover, Dust	
117	8420053	1	Cover, Dust	
118	70022941	1	Harness	
119	70022942	1	Hose	
120	70022943	1	Hose	
121	70022944	1	Hose	
122	70022945	1	Hose	
123	70022946	1	Hose	
124	70022947	1	Hose	
125	70022972	3	Wear Pad	
126	70022971	8	Capscrew, Flat Head	
127	70023001	2	Grease Fitting	
128	70022975	1	Spherical Bearing	
129	70022973	1	Pivot Shaft	
130	70022974	2	Beveled Spacer	
131	70022988	1	Ring, Retaining	
132	70022976	1	Retainer Plate	
133	2716143	1	Tilt Cylinder	
134	70022977	1	Pin	
135	70023016	4	Ring, Snap	
136	70022978	1	Pin	
137	70023000	1	Fitting	
138	70022999	1	Elbow	
139	70022982	1	Elbow, Straight Thread	
140	70022980	2	Keeper, Fork Pin	
141	70022949	4	Washer, Lock M10	
142	70022939	2	Fitting, Straight	
143	70022998	4	Screw, M10X20	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
144	70022966	1	Grease Fitting 30	
145	70022979	2	Hose	
146	70025353	1	Spine Weldment	
147	N.S.S.	1	Front Frame Weldment	
148	70022990	1	Pin, Fork	
149	70023014	24	Shim	
150	70022987	8	Bearing, Ball	
151	70027951	2	Washer, Shim	
152	70023016	1	Ring, Snap	
153	70022969	2	Assembly, Sheave	
154	70022960	2	Anchor, Chain	
155	70022957	8	Nut, 5/8-18	
156	70022993	4	Pin, Cotter	
157	70022995	2	Anchor, Chain	
158	70022984	1	Shaft, Sheave	
159	70022970	2	Bar, Retainer	
160	70023003	2	Capscrew	
161	70022994	4	Pin, Chain Anchor	
162	70022992	8	Pin, Cotter	
163	70022985	1	Shaft, Sheave	
164	70023925	1	Kit, Decal (Not Shown) (See Separate Breakdown in this Section)	
165	70023009	2	Chain, Lift	
166	70023008	1	Cylinder, Main Lift (Not Shown) (See Separate Breakdown in this Section)	

FIGURE 3-44. SWEEPER ASSEMBLY

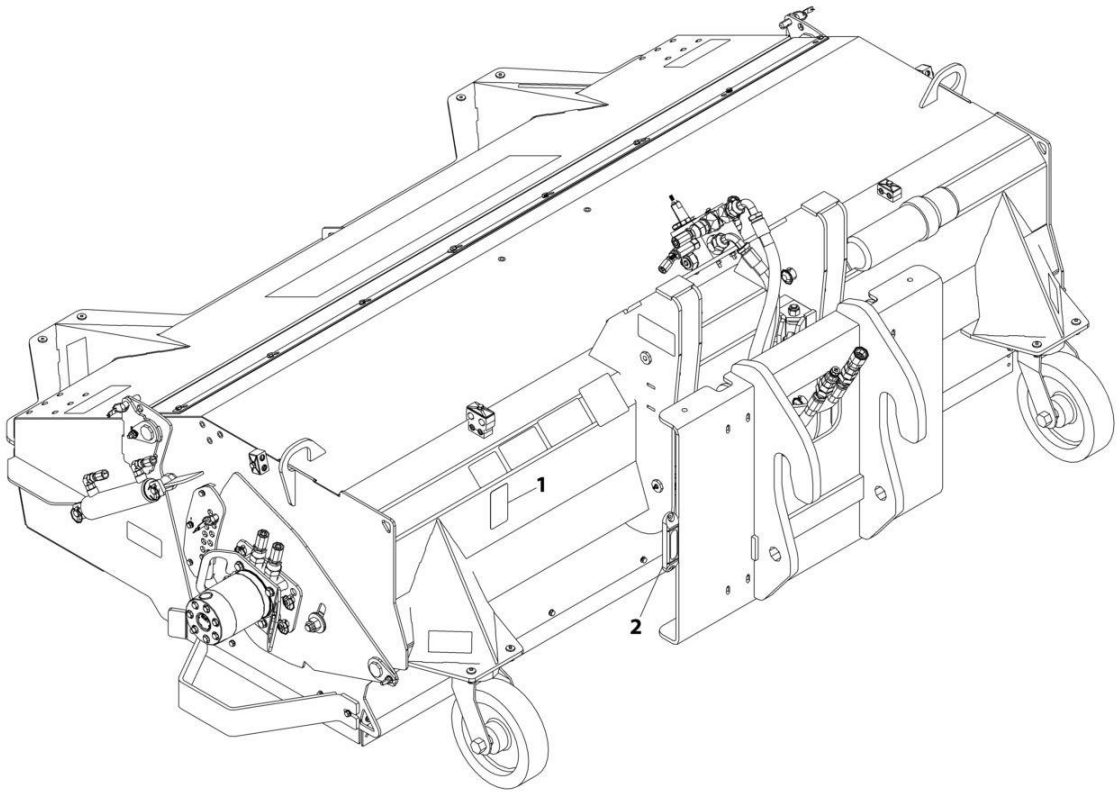


FIGURE 3-44. SWEEPER ASSEMBLY

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

FIGURE 3-45. TRUSS BOOM (12')(WITHOUT WINCH)

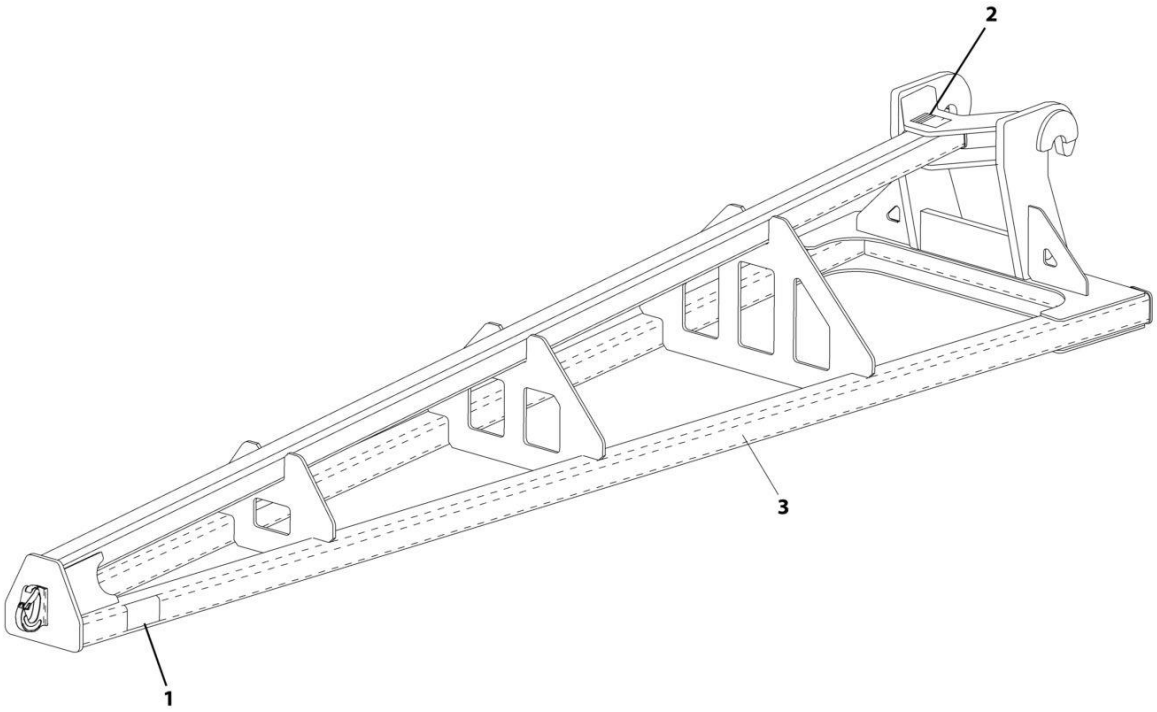


FIGURE 3-45. TRUSS BOOM (12')(WITHOUT WINCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099902	Ref	TRUSS BOOM (0.9 TON - 3.7M)	E
1	4110422	2	Decal, Danger Swinging Loads	
2	N.S.S.	1	S/N Plate	
3	N.S.S.	1	Boom, Truss	

FIGURE 3-46. TRUSS BOOM(15')(WITHOUT WINCH)

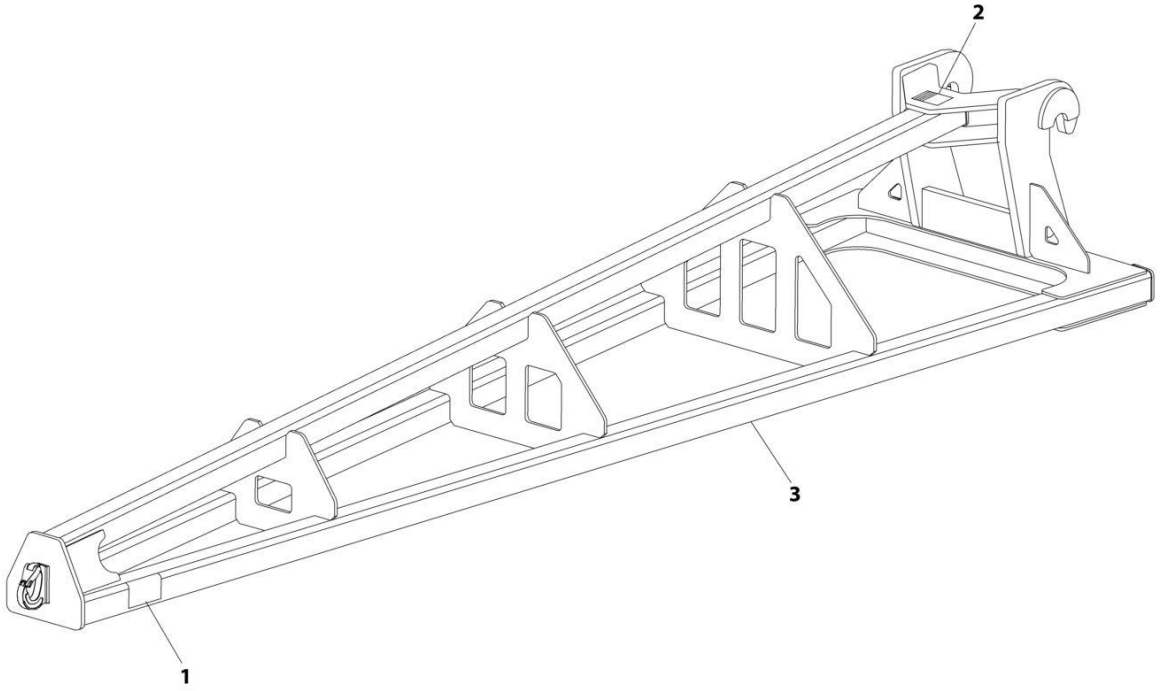


FIGURE 3-46. TRUSS BOOM(15')(WITHOUT WINCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099901	Ref	TRUSS BOOM (15 FOOT)	F
1	4110422	2	Decal, Danger Swinging Loads	
2	See Note	NSS	S/N Plate (Note: Stamped Part - Not Available for Purchase)	
3	See Note	NSS	Boom, Truss (Note: Purchase Complete Assembly)	

FIGURE 3-47. TRUSS BOOM (3')(WITH WINCH)

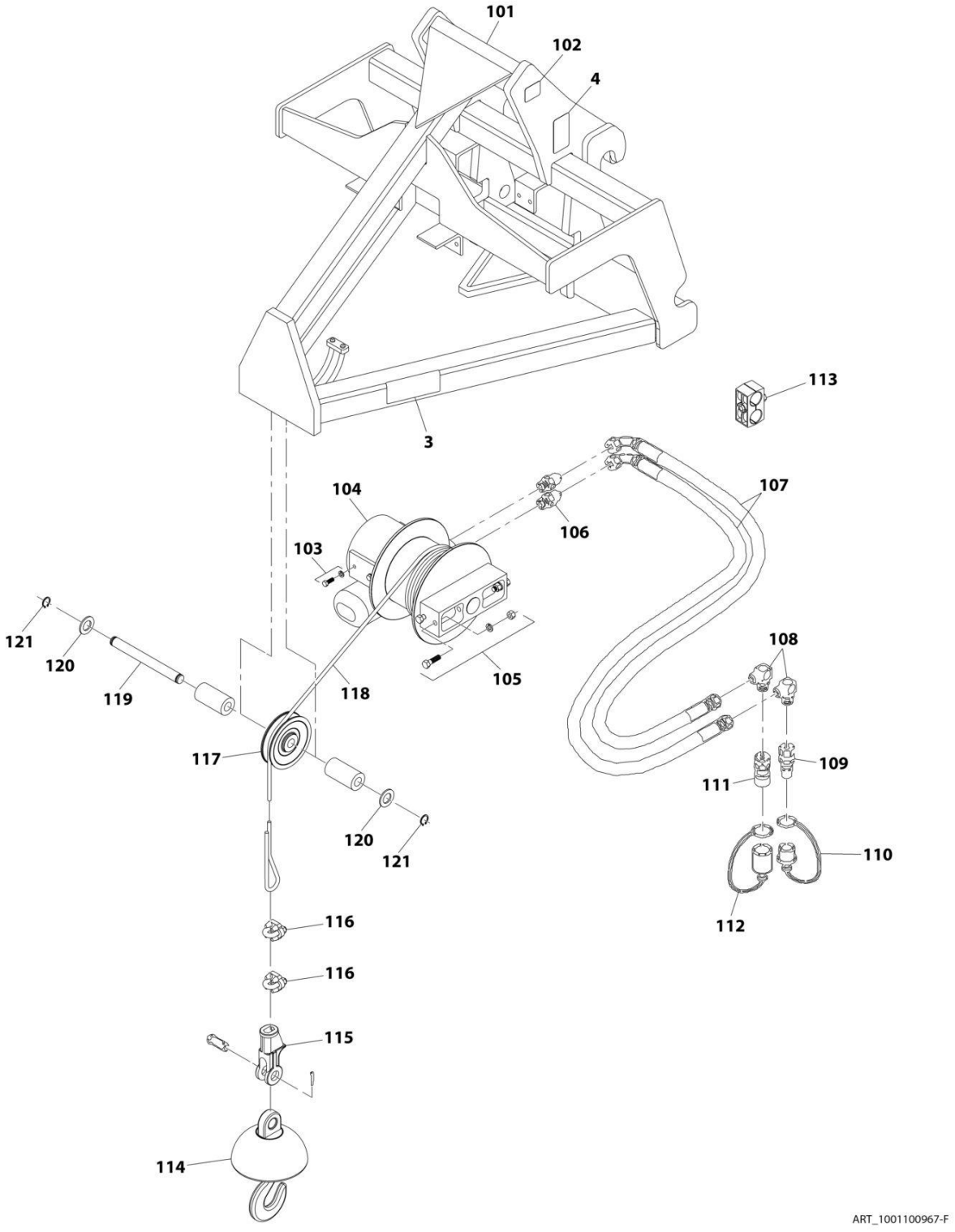


FIGURE 3-47. TRUSS BOOM (3')(WITH WINCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100967	Ref	TRUSS BOOM ASSEMBLY (3 FOOT WITH WINCH) (INCLUDES ITEMS 3, 4 & 101 THRU 121)	F
3	4110422	2	Decal, Danger, Swinging Loads	
4	N.S.S.	1	Plate, Serial Number	
101	N.S.S.	1	Truss Boom Frame	
102	90554016	1	Decal	
103	70021349	4	Bolt	
103	90554042	4	Washer	
104	70021921	1	Winch, Truss Boom	
105	70024059	4	Bolt	
105	90554054	4	Nut	
105	90554020	4	Washer	
106	70021415	2	Fitting	
107	70021977	2	Hose 32in (Boom Front Disconnect)	
107	70031445	2	Hose 48in (Boom Side Disconnect)	
108	70022527	2	Fitting, 90	
109	91403414	1	Fitting, Straight	
110	8420053	1	Cap	
111	91403413	1	Fitting, Straight	
112	8420055	1	Plug	
113	70021387	1	Clamp	
114	70021978	1	Ball Swivel Safety Hook	
115	70021979	1	Assembly, Socket	
116	70022528	2	Clamp	
117	70021935	1	Pulley	
118	70022028	1	Cable	
119	70022529	1	Pin	
120	70027009	2	Washer	
121	70026698	2	Ring, Snap	

FIGURE 3-48. TRUSS BOOM (12')(WITH WINCH)

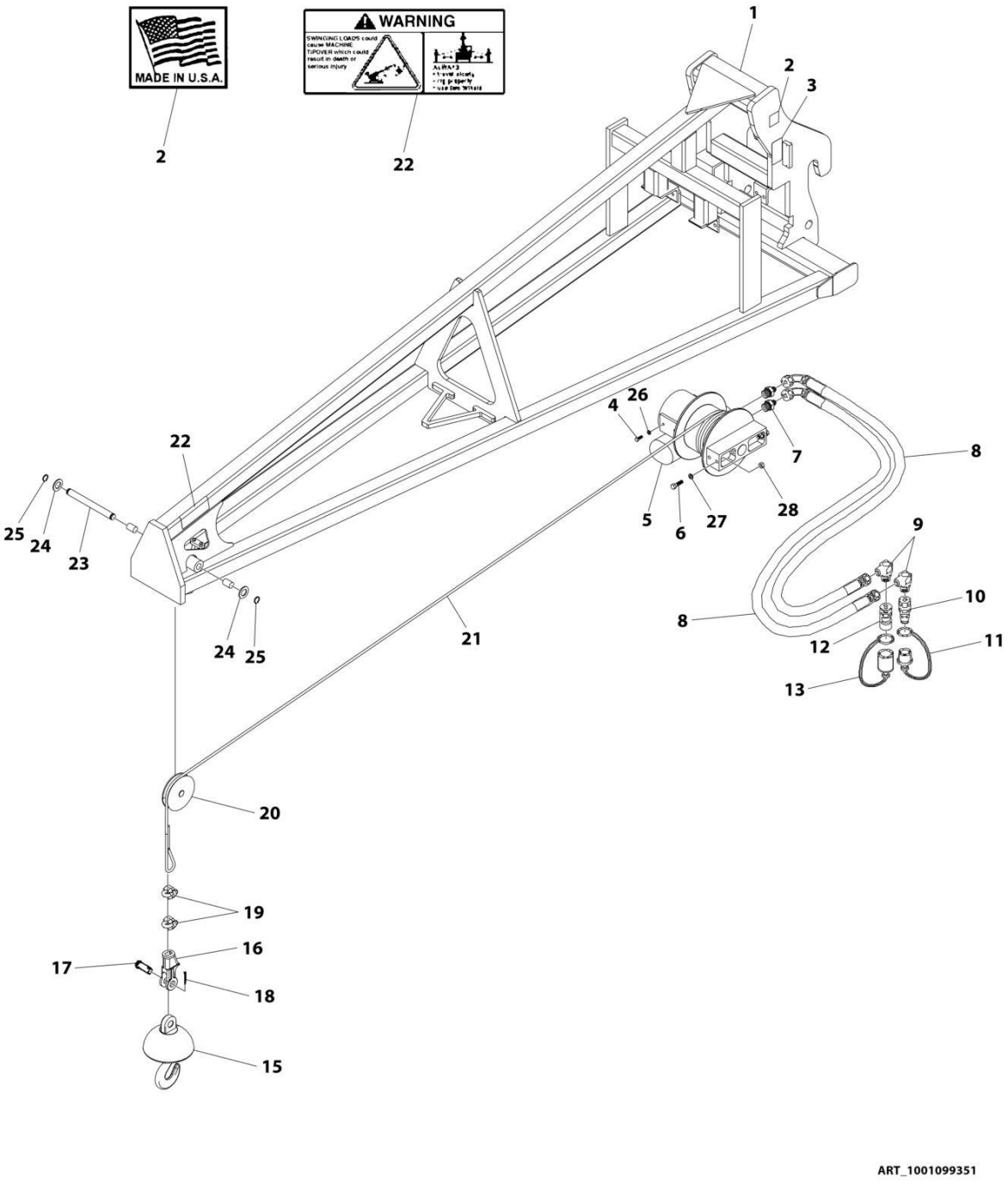


FIGURE 3-48. TRUSS BOOM (12')(WITH WINCH)

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

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. AIR CLEANER LINES INSTALLATION (ULS)

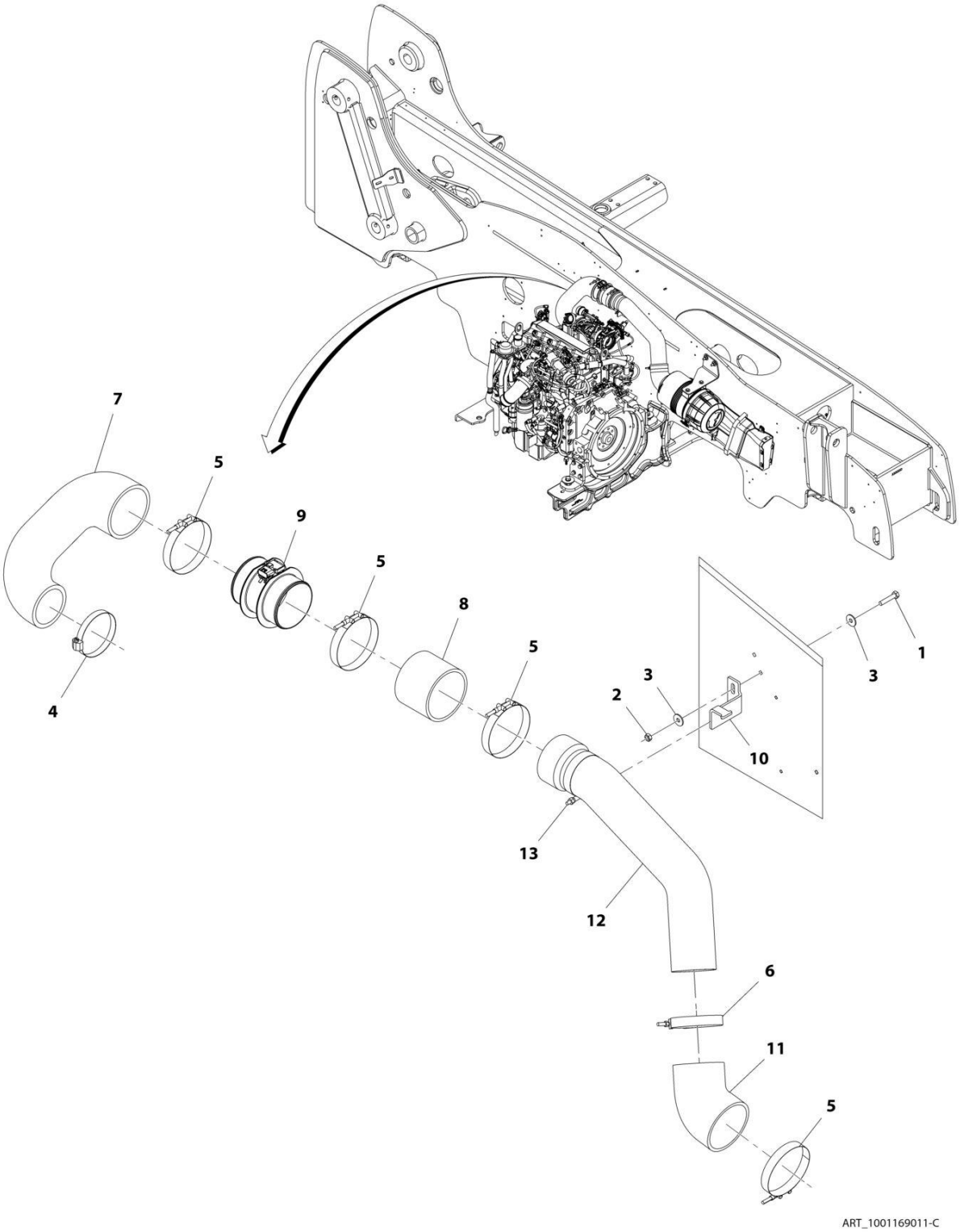


FIGURE 4-1. AIR CLEANER LINES INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169011	Ref	Air Cleaner Lines Installation	C
1	0700816	1	Bolt, M8X40	
2	3290801	1	Nut, M8X1.25 Grade 8	
3	4811902	2	Washer, M8	
4	8410011	1	Clamp	
5	80933367	4	Clamp	
6	91413025	1	Clamp	
7	1001166449	1	Hose	
8	1001166450	1	Hose	
9	1001168771	1	Tube	
10	1001169155	1	Bracket	
11	1001185505	1	Elbow	
12	1001185497	1	Tube	
13	8410007	1	Clamp, T-Bolt	

FIGURE 4-2. AIR CLEANER LINE INSTALLATION (LS)

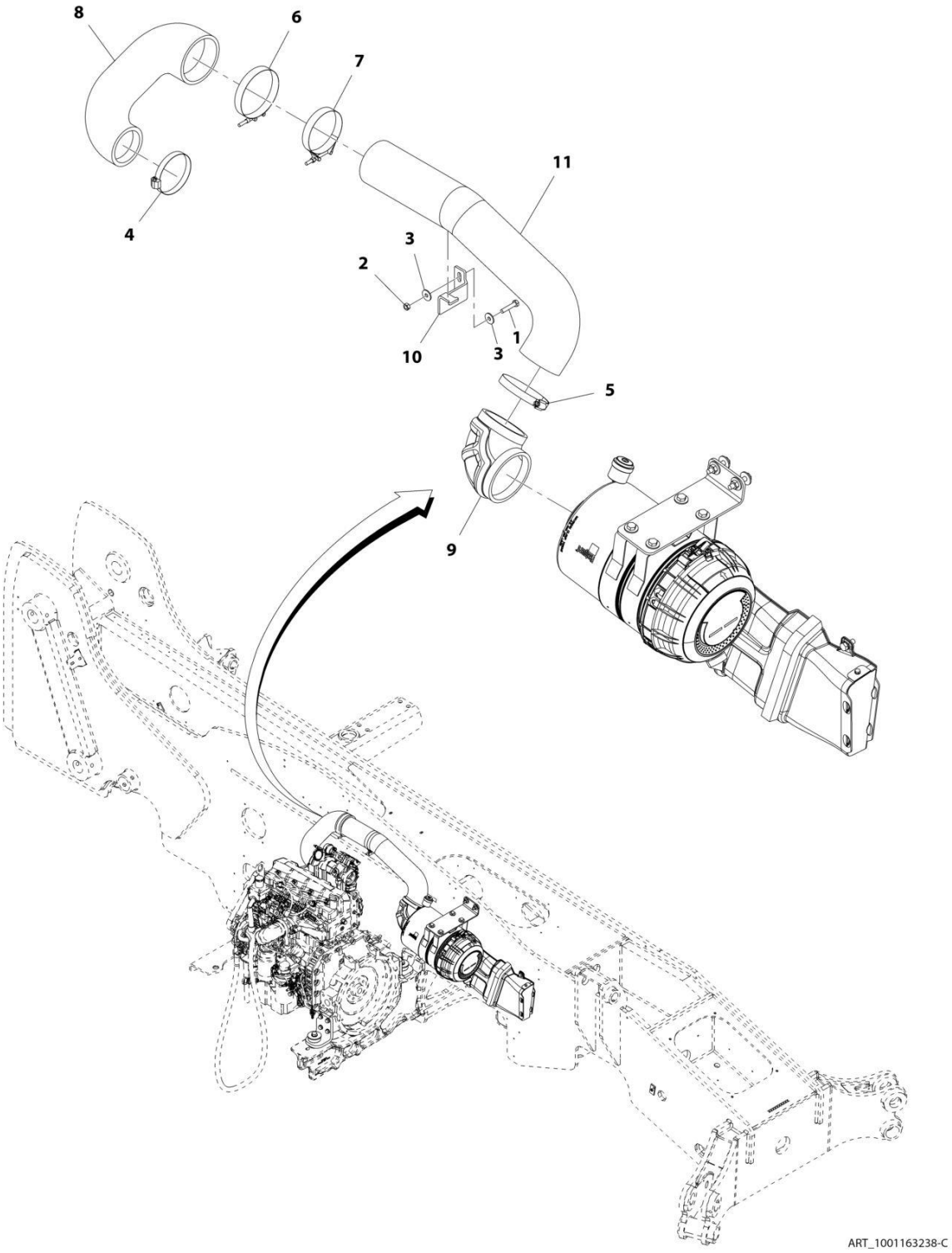


FIGURE 4-2. AIR CLEANER LINE INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163238	Ref	Air Intake Lines Installation (LS)	C
1	0700816	1	Bolt, M8X40	
2	3290801	1	Nut, M8X1.25 Grade 8	
3	4811902	2	Washer, M8	
4	8410011	1	Clamp	
5	10719267	1	Clamp	
6	80933367	1	Clamp	
7	91413025	1	Clamp	
8	1001166449	1	Hose	
9	1001166451	1	Elbow	
10	1001169155	1	Bracket	
11	1001185498	1	Tube	

FIGURE 4-3. AIR CLEANER INSTALLATION (ULS)

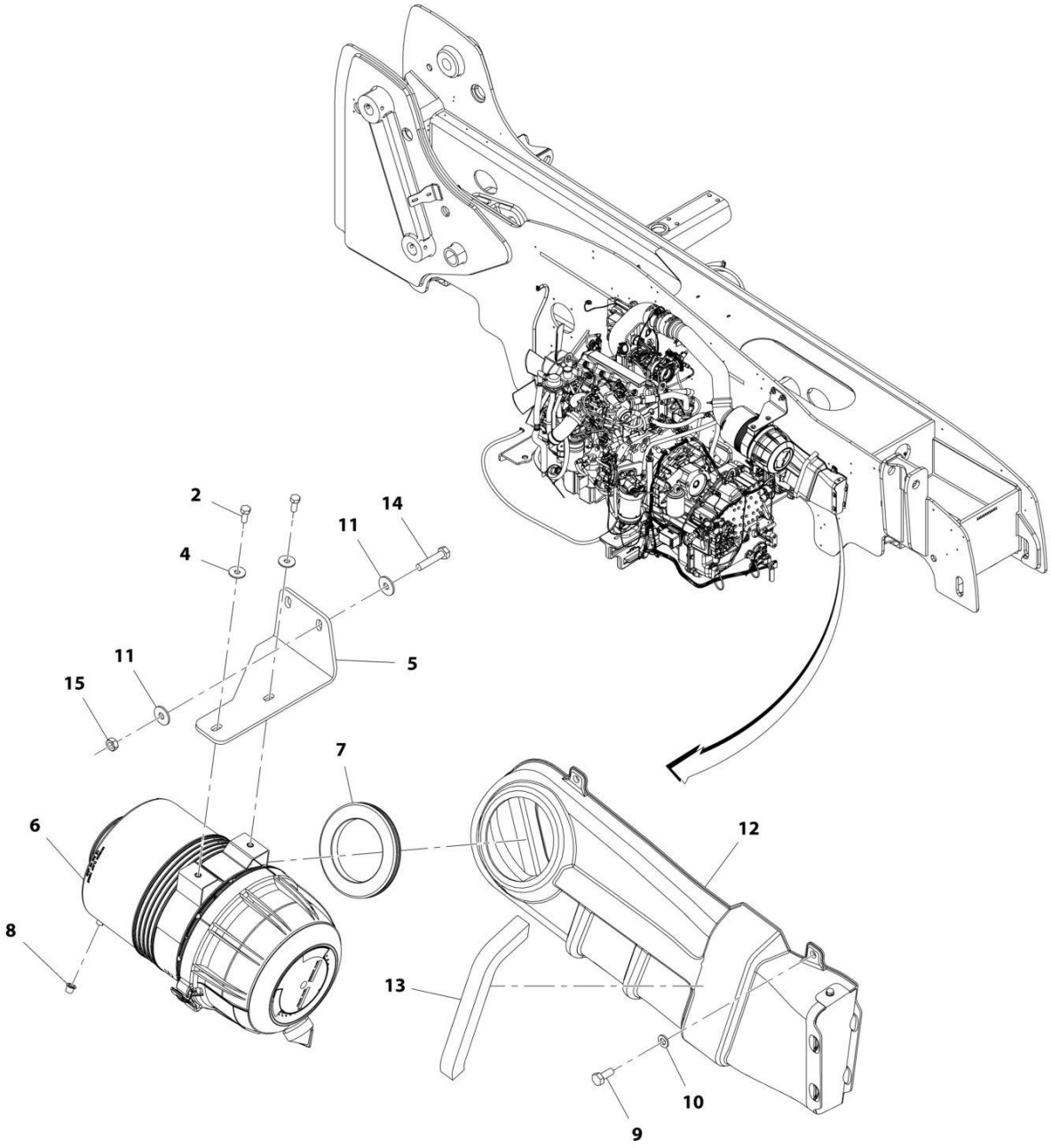


FIGURE 4-3. AIR CLEANER INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169012	Ref	Air Cleaner Installation	F
2	0760810	2	Bolt, M8X20	
4	4811902	2	Washer, M8	
5	1001185278	1	Bracket	
6	1001166566	1	Filter, Air Cleaner (See Separate Breakdown in this Section)	
7	1001183830	1	Grommet, Intake	
8	1001183177	1	Cap, Air Cleaner	
9	0761012	4	Bolt, M10X25	
10	4812000	4	Washer, M10	
11	4812002	4	Washer, M10	
12	1001183835	1	Installation, Air Intake Duct (See Separate Breakdown in this Section)	
13	1001186898	1	Seal	
14	0701018	2	Bolt, M8X50	
15	3291001	1	Nut, M10X1.5 Grade 8	

FIGURE 4-4. AIR CLEANER INSTALLATION (LS)

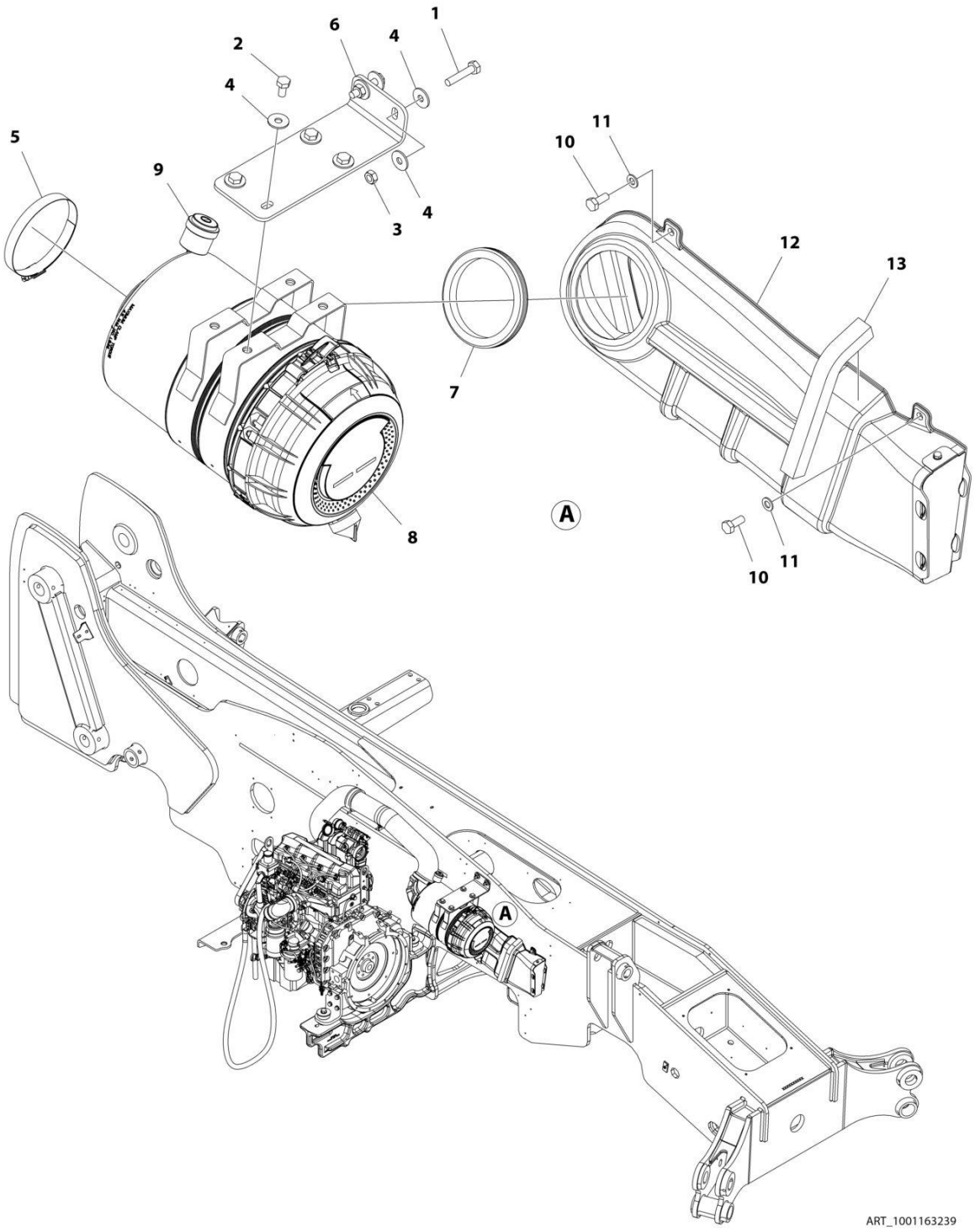


FIGURE 4-4. AIR CLEANER INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163239	Ref	AIR CLEANER INSTALLATION (LS)	F
1	0701018	2	Bolt M10 x 50	
2	0761010	4	Bolt M10 x 20	
3	3291001	2	Nut M10 x 1.5 Grade 8	
4	4812002	8	Washer M10	
5	8405402	1	Clamp	
6	1001194534	1	Bracket, Air Cleaner Mount	
7	1001183831	1	Grommet	
8	1001166565	1	Filter, Air Cleaner (See Separate Breakdown in this Section)	
9	1001166716	1	Indicator	
10	0761012	4	Bolt M10 x 25	
11	4812000	4	Washer M10	
12	1001183835	1	Installation, Duct Air Intake (See Separate Breakdown in this Section)	
13	1001186898	1	Seal	

FIGURE 4-5. A/C PUMP INSTALLATION (ULS)

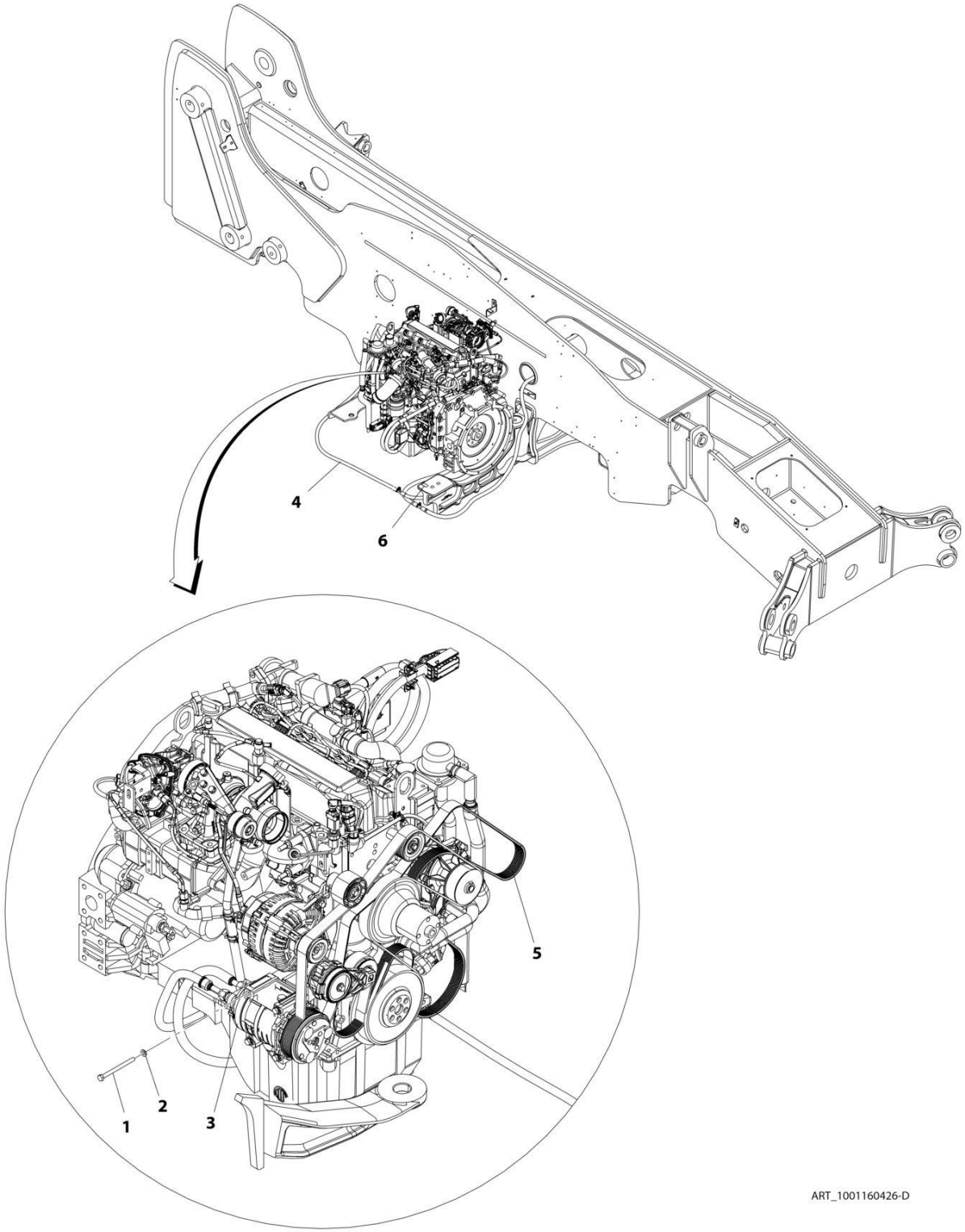


FIGURE 4-5. A/C PUMP INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160426	Ref	A/C Pump Installation (ULS)	D
1	0700827	4	Bolt, M8X100	
2	4811900	4	Washer, M8	
3	1001157663	1	Compressor, A/C	
4	1001163254	1	Installation, A/C Lines (See Separate Breakdown in this Section)	
5	1001167357	1	Belt	
6	1001193026	1	Decal, A/C Refrigerant	

FIGURE 4-6. A/C PUMP INSTALLATION (LS)

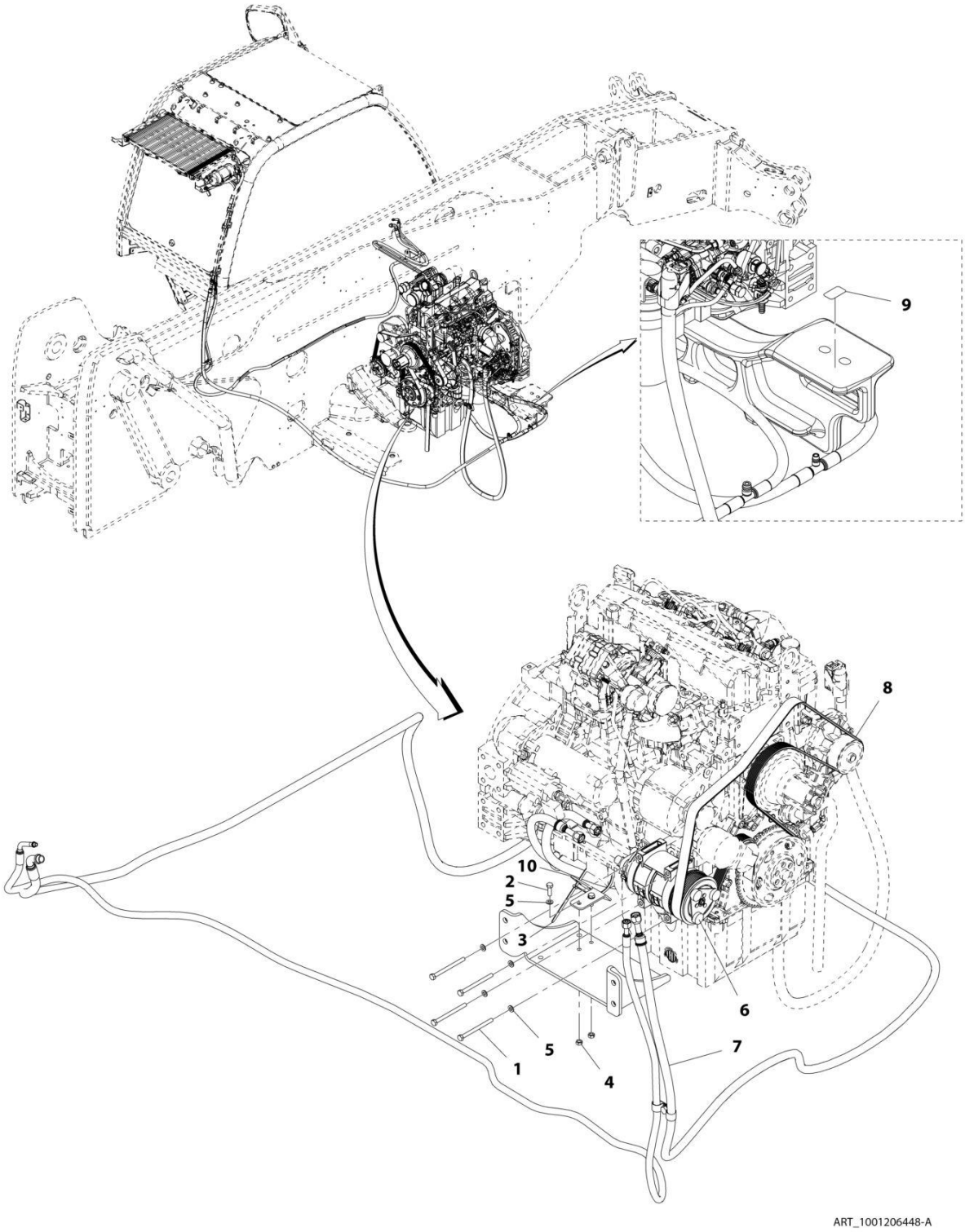


FIGURE 4-6. A/C PUMP INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001206448	Ref	A/C Pump Installation (LS)	A
1	0700827	4	Bolt, M8X100	
2	0760812	2	Bolt, M8X25	
3	1062255	1	Strap, Tie	
4	3290801	2	Nut, M8X1.25 Grade 8	
5	4811900	6	Washer, M8	
6	1001157663	1	Compressor, A/C	
7	1001163254	1	Installation, A/C Lines (See Separate Breakdown in this Section)	
8	1001167357	1	Belt	
9	1001193026	1	Decal, A/C Refrigerant	
10	1001206332	1	Bracket	

FIGURE 4-7. A/C LINES INSTALLATION

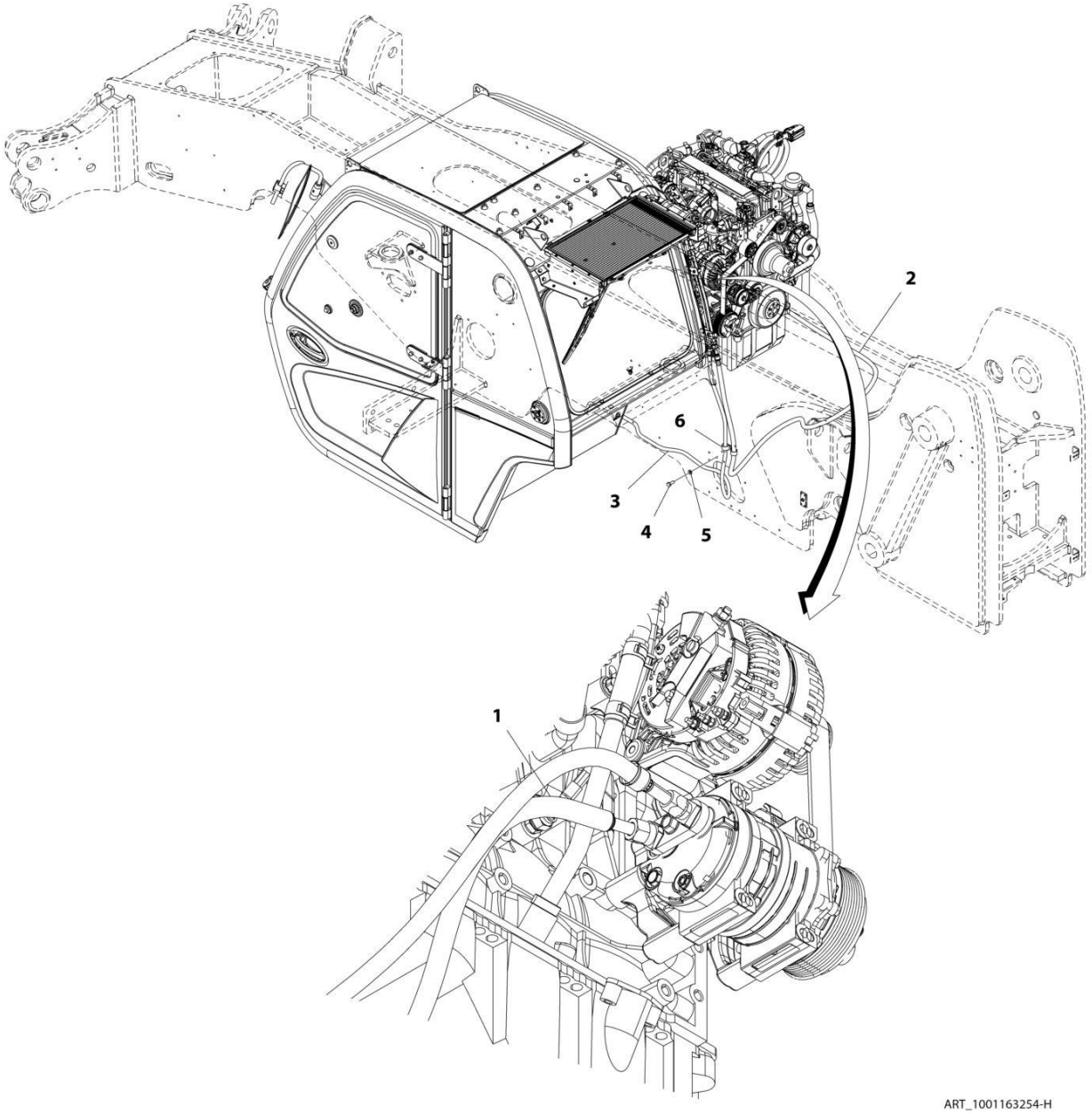


FIGURE 4-7. A/C LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163254	Ref	A/C Lines Installation	H
1	1001196491	1	Hose	
2	1001184017	1	Hose	
3	1001186705	1	Hose	
4	0761012	1	Bolt, M10X25	
5	4812000	1	Washer, M10	
6	8406102	2	Clip	

FIGURE 4-8. AIR INTAKE SHUT OFF VALVE INSTALLATION

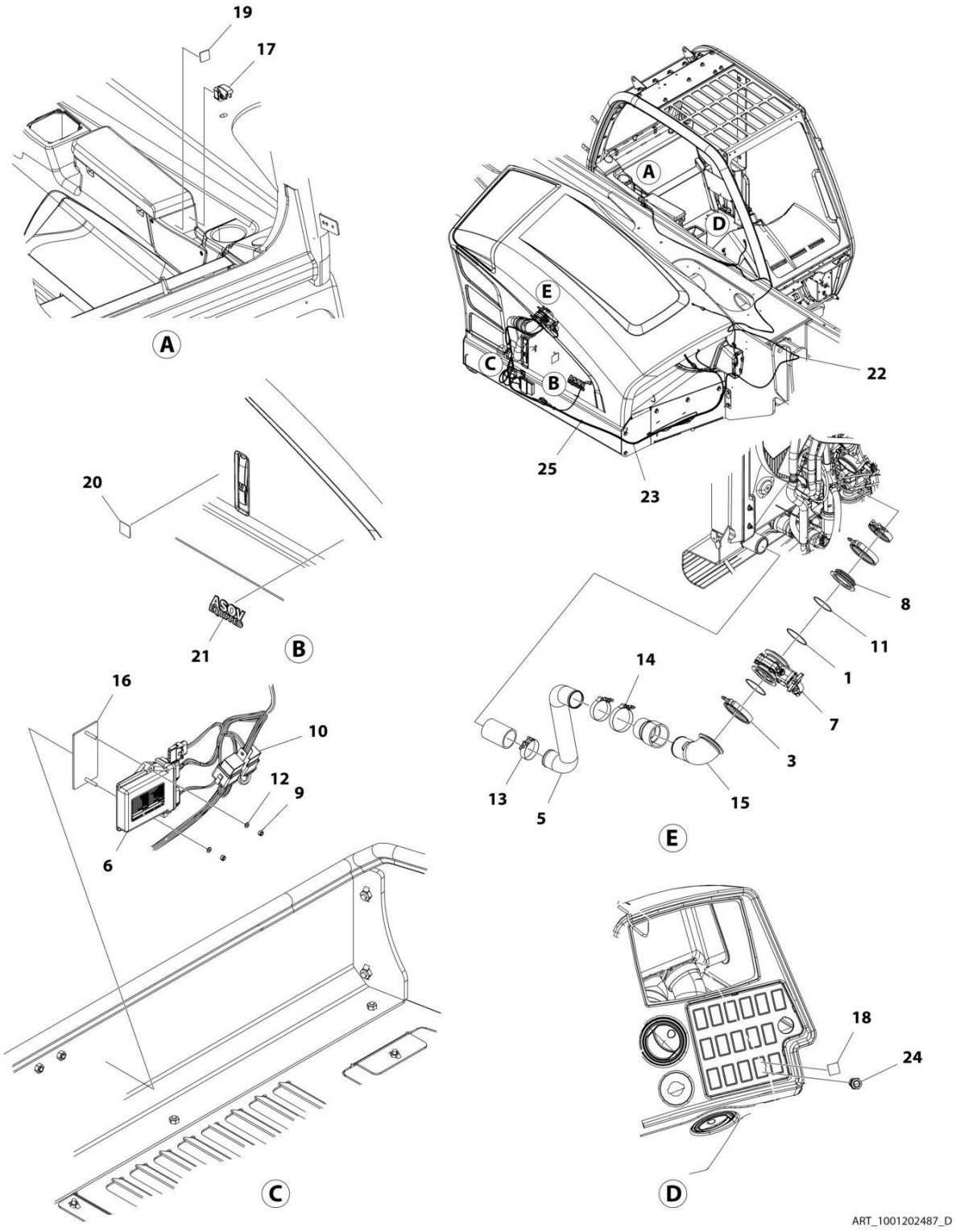


FIGURE 4-8. AIR INTAKE SHUT OFF VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202487	Ref	Air Intake Shut Off Valve Installation	D
1	3790152	2	Ring	
3	1001202247	2	Clamp	
5	1001202491	1	Pipe	
6	1001203181	1	Accessory, Control	
7	1001204032	1	Valve, Air Shut Off (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
8	1001206980	1	Plate	
9	3290505	2	Nut, Lock M5X0.8 Grade 8	
10	3740080	2	Relay	
11	3790151	1	O-Ring	
12	4811600	2	Washer, M5	
13	8405212	2	Clamp	
14	8405305	1	Clamp	
15	1001215476	1	Pipe	
16	1001219082	1	Bracket	
17	1001215941	1	Switch	
18	1001227077	1	Decal, Air Shut Off	
19	1001227964	1	Decal, ASOV Test	
20	1001228273	1	Decal, Air Shut Off	
21	1001228643	1	Decal, ASOV Equipped	
22	1001231407	1	Harness, Cab Air Shut Off Valve (See Separate Breakdown in ELECTRICAL Section)	
23	1001231483	1	Harness, Engine Air Shut Off Valve (See Separate Breakdown in ELECTRICAL Section)	
24	1001239539	1	Lamp	
25	91053419	AR	Strap, Cable	

FIGURE 4-9. AIR CLEANER ASSEMBLY (74.4KW)

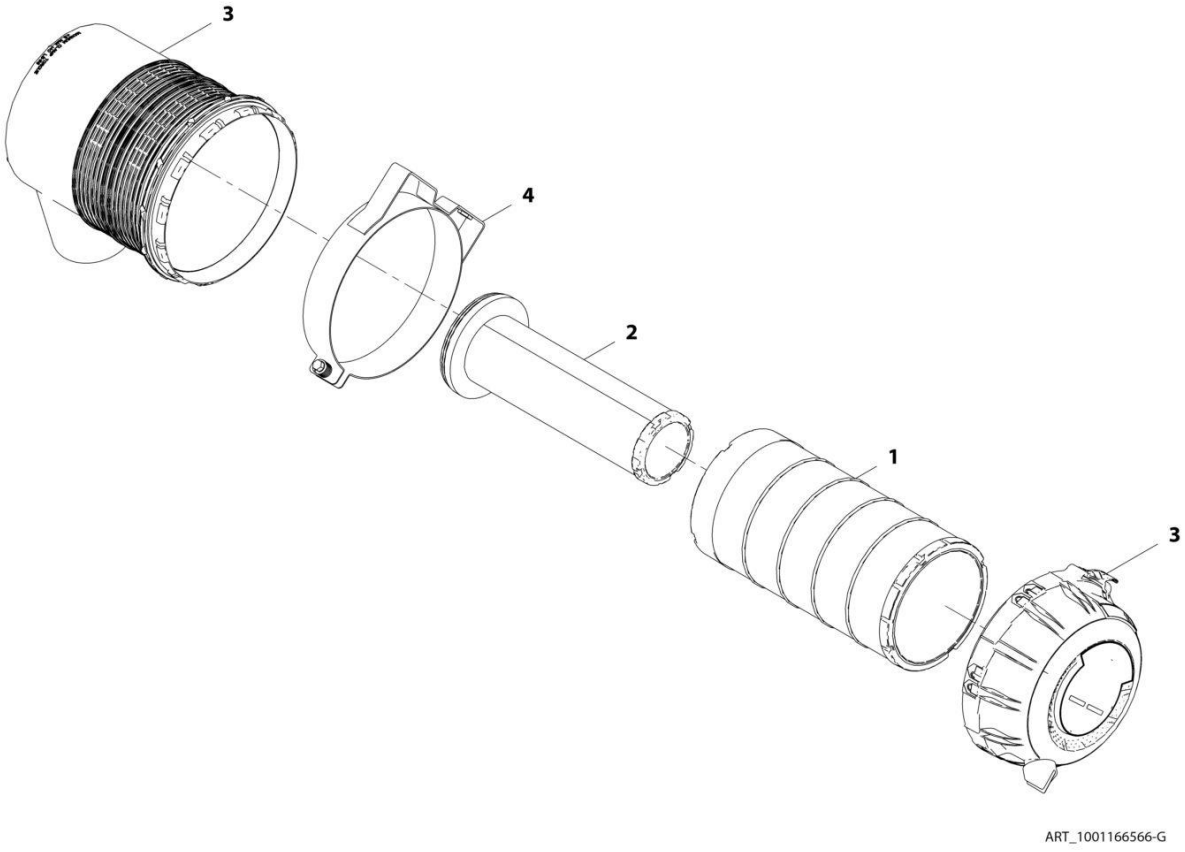


FIGURE 4-9. AIR CLEANER ASSEMBLY (74.4KW)

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

FIGURE 4-10. AIR CLEANER ASSEMBLY (90/100KW)

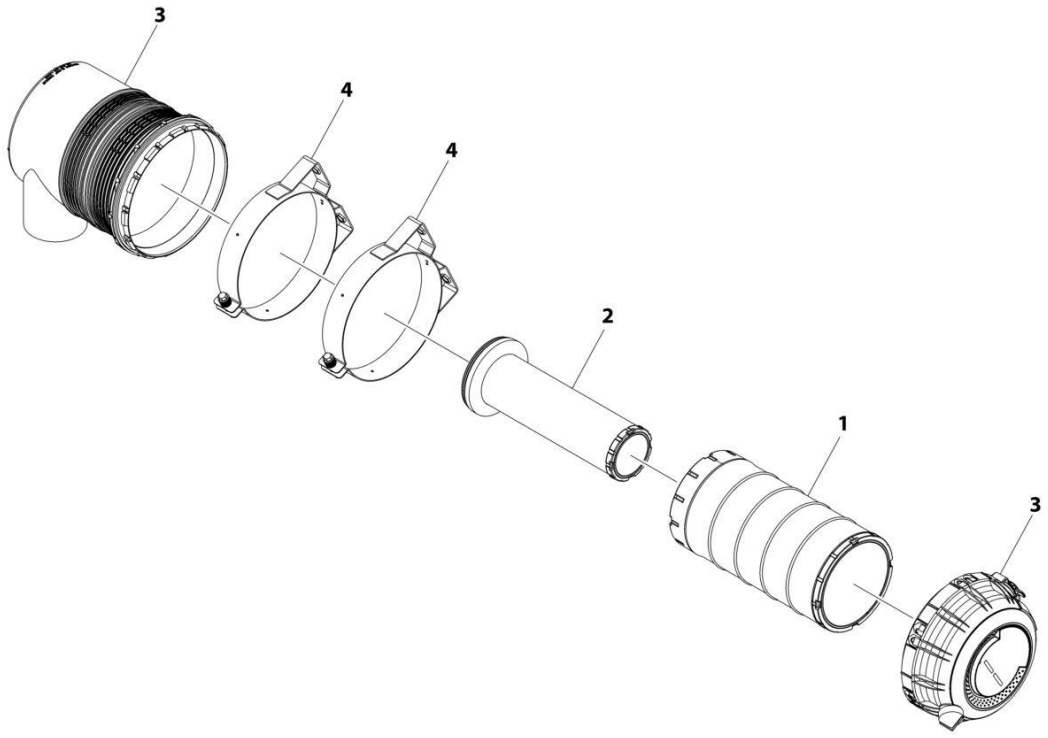


FIGURE 4-10. AIR CLEANER ASSEMBLY (90/100KW)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166565	Ref	AIR FILTER ASSEMBLY (90/100KW)	F
1	70025850	1	Filter, Cylindrical Air Primary	
2	70025851	1	Filter, Cylindrical Air Secondary	
3	70026395	1	Cover	
4	70026396	2	Bracket	

FIGURE 4-11. AIR INTAKE DUCT INSTALLATION

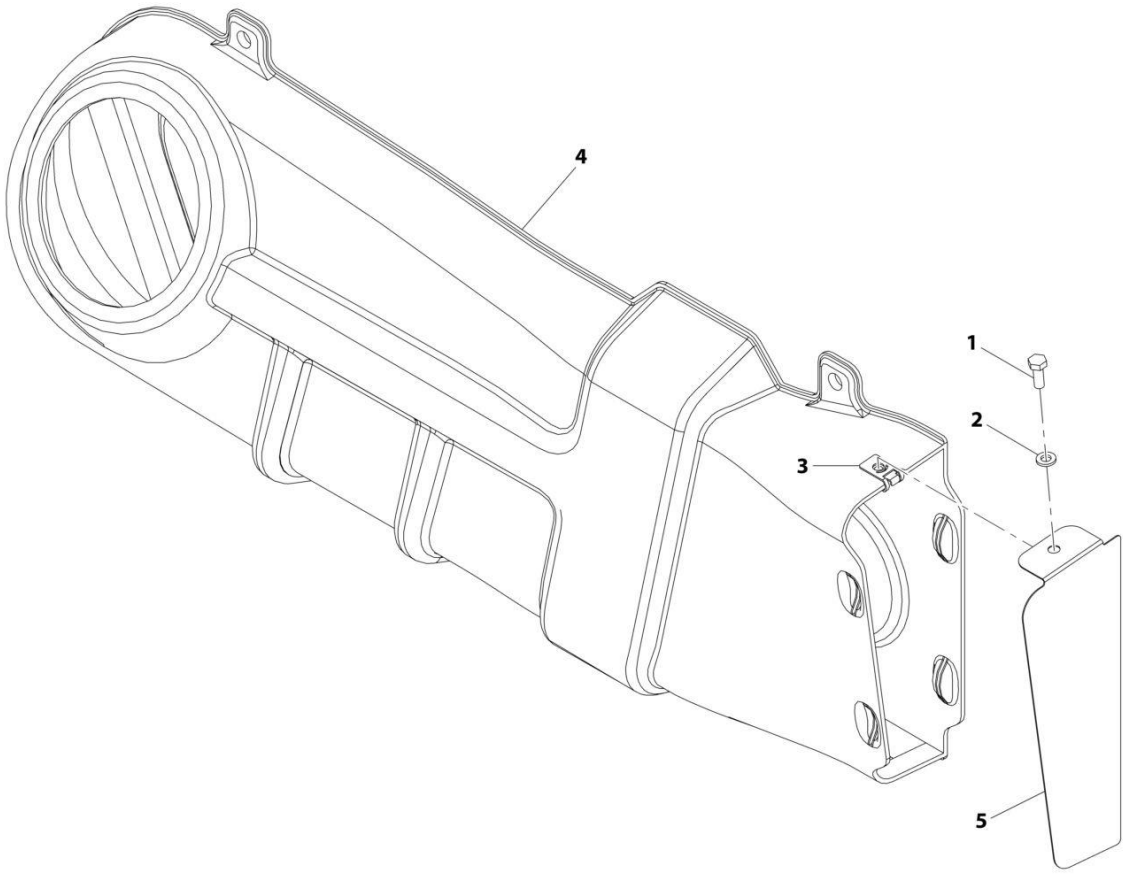


FIGURE 4-11. AIR INTAKE DUCT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001183835	Ref	Air Intake Duct Installation	C
1	0760608	1	Bolt, M6X16	
2	4811702	1	Washer, M6	
3	8305919	1	Nut	
4	1001183827	1	Duct	
5	1001183829	1	Plate	

FIGURE 4-12. CAC LINES INSTALLATION (ULS)

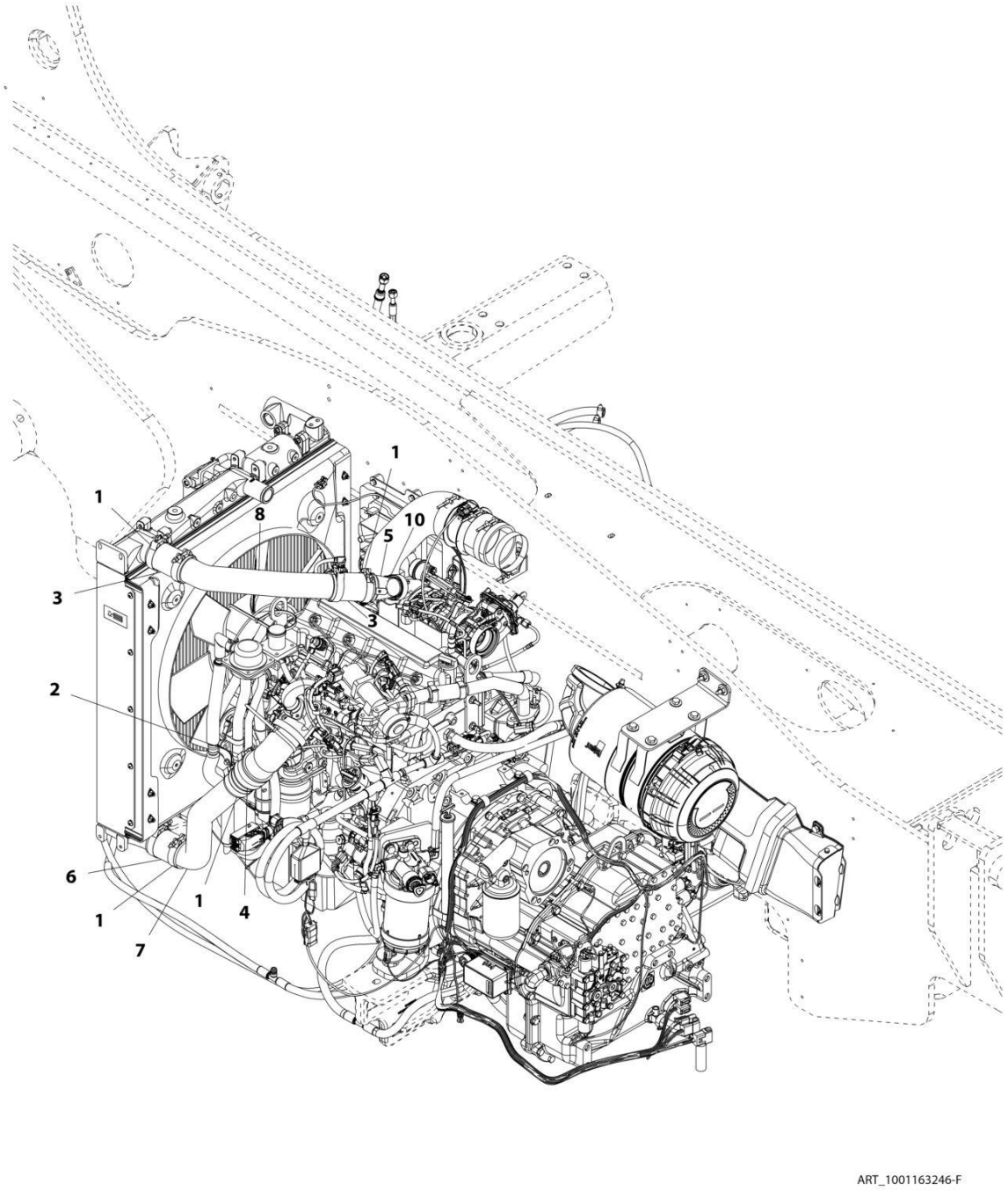


FIGURE 4-12. CAC LINES INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163246	Ref	CAC Lines Installation (ULS)	F
1	8405212	7	Clamp, T-Bolt	
2	8405305	1	Clamp, T-Bolt	
3	1001114495	2	Hose	
4	1001138348	1	Hose	
5	1001161920	1	Adapter Mech	
6	1001166416	1	Hose	
7	1001166925	1	Pipe	
8	1001166993	1	Pipe	
10	1001172591	1	O-Ring	

FIGURE 4-13. CAC LINES INSTALLATION (LS)

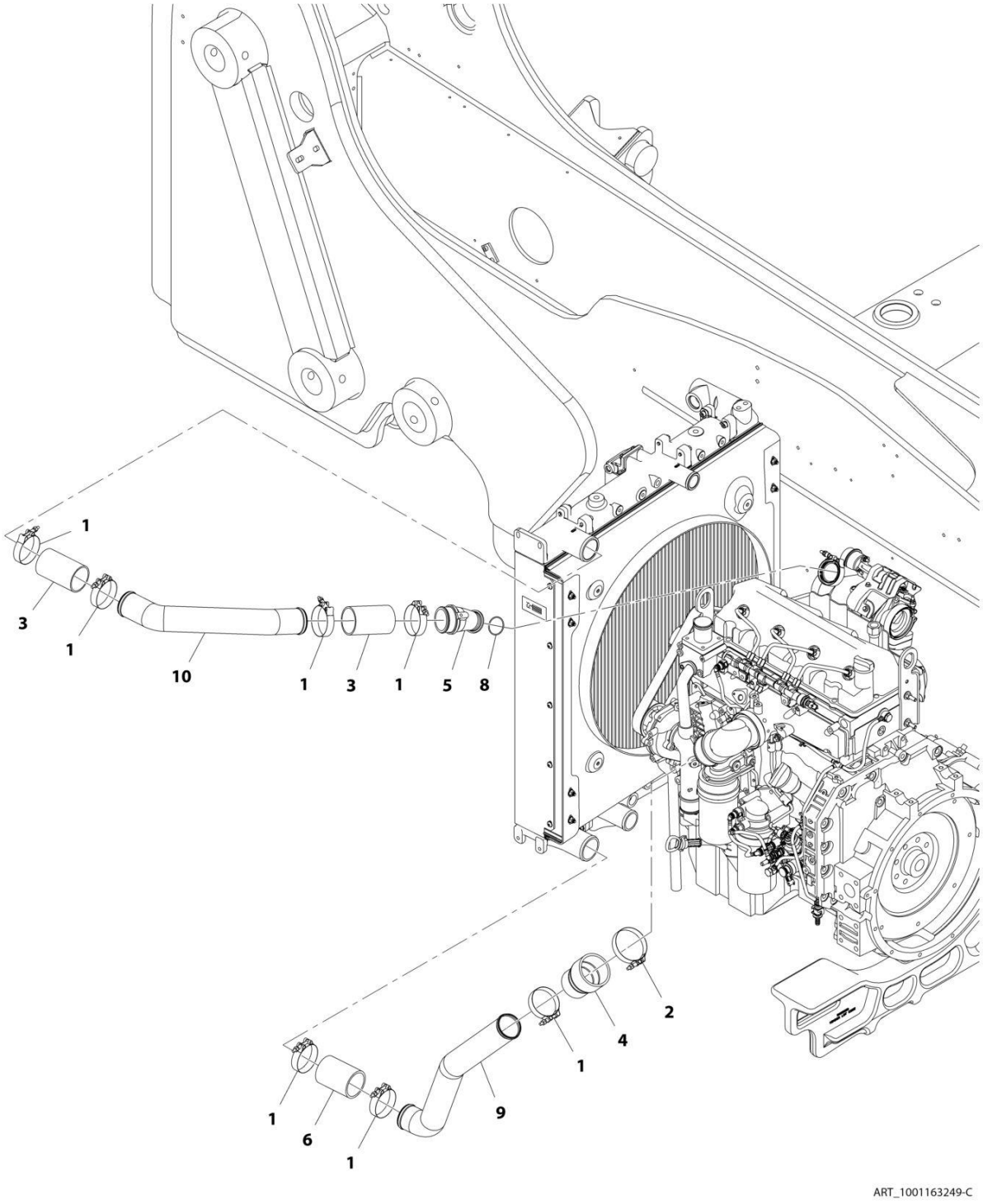


FIGURE 4-13. CAC LINES INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163249	Ref	CAC Lines Installation (LS)	C
1	8405212	7	Clamp, T-Bolt	
2	8405305	1	Clamp, T-Bolt	
3	1001114495	2	Hose	
4	1001138348	1	Hose	
5	1001161920	1	Adapter Mech	
6	1001166416	1	Hose	
8	1001172591	1	O-Ring	
9	1001174832	1	Pipe	
10	1001179376	1	Pipe	

FIGURE 4-14. COOLANT LINES INSTALLATION (ULS)

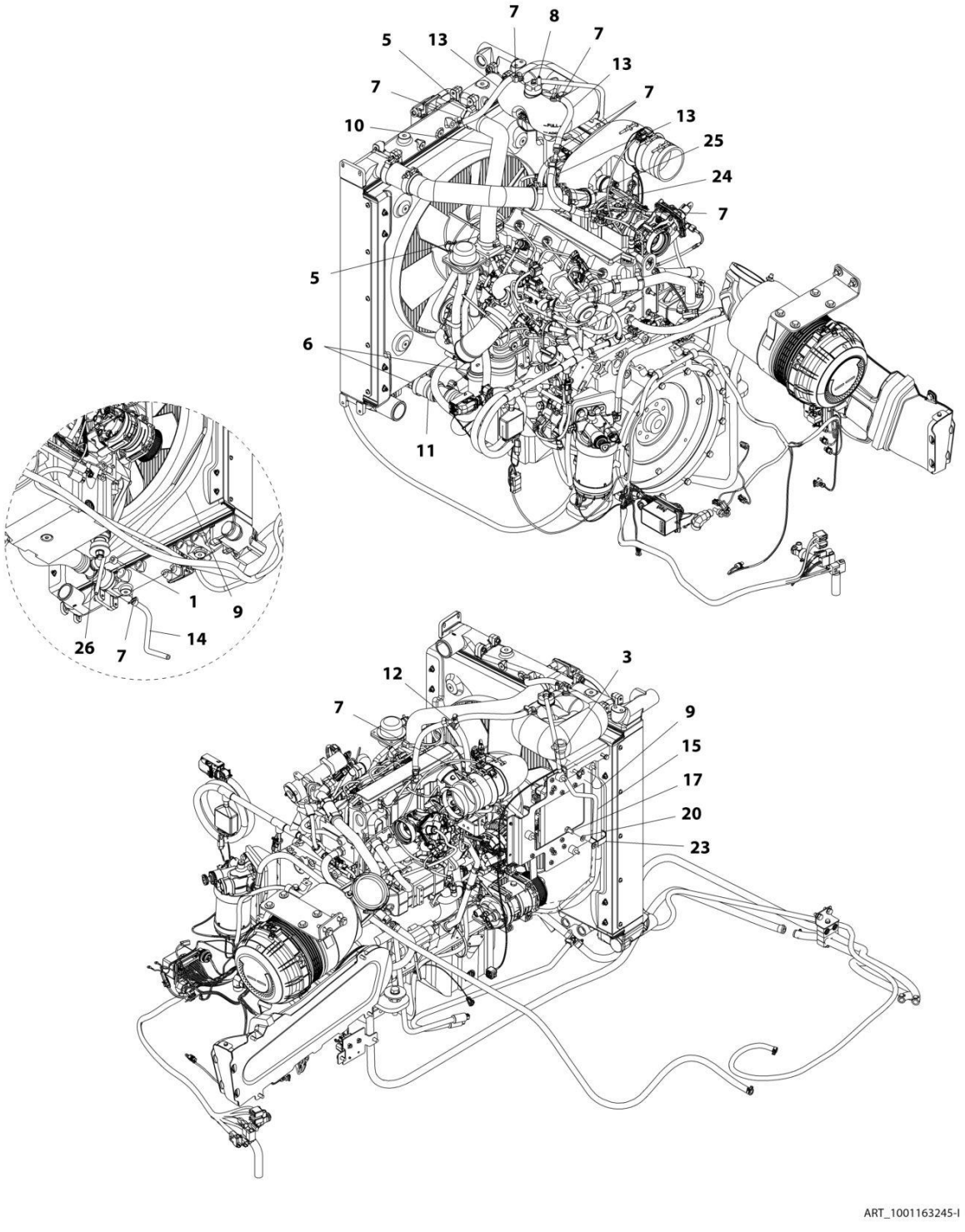


FIGURE 4-14. COOLANT LINES INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163245	Ref	Coolant Lines Installation (ULS)	I
1	2200224	1	Plug	
3	8405101	AR	Clamp, Gear	
5	8405201	2	Clamp, Gear	
6	8405202	2	Clamp, Gear	
7	8410013	9	Clamp, Gear	
8	8405009	1	Clamp, Gear	
9	1001182011	1	Hose	
10	1001166430	1	Pipe	
11	1001182012	1	Hose	
12	1001172953	1	Pipe, Tee	
13	1001181625	1042 mm	Hose	
14	1001180553	370 mm	Hose	
15	1001180542	1680 mm	Hose	
17	0761010	1	Bolt, M10X20	
20	4812000	1	Washer, M10	
23	1001097588	1	Clamp	
24	8410019	1	Clamp, 7/8	
25	0760605	1	Bolt, 6X10	
26	8405007	1	Clamp	

FIGURE 4-15. COOLANT LINES INSTALLATION (LS)

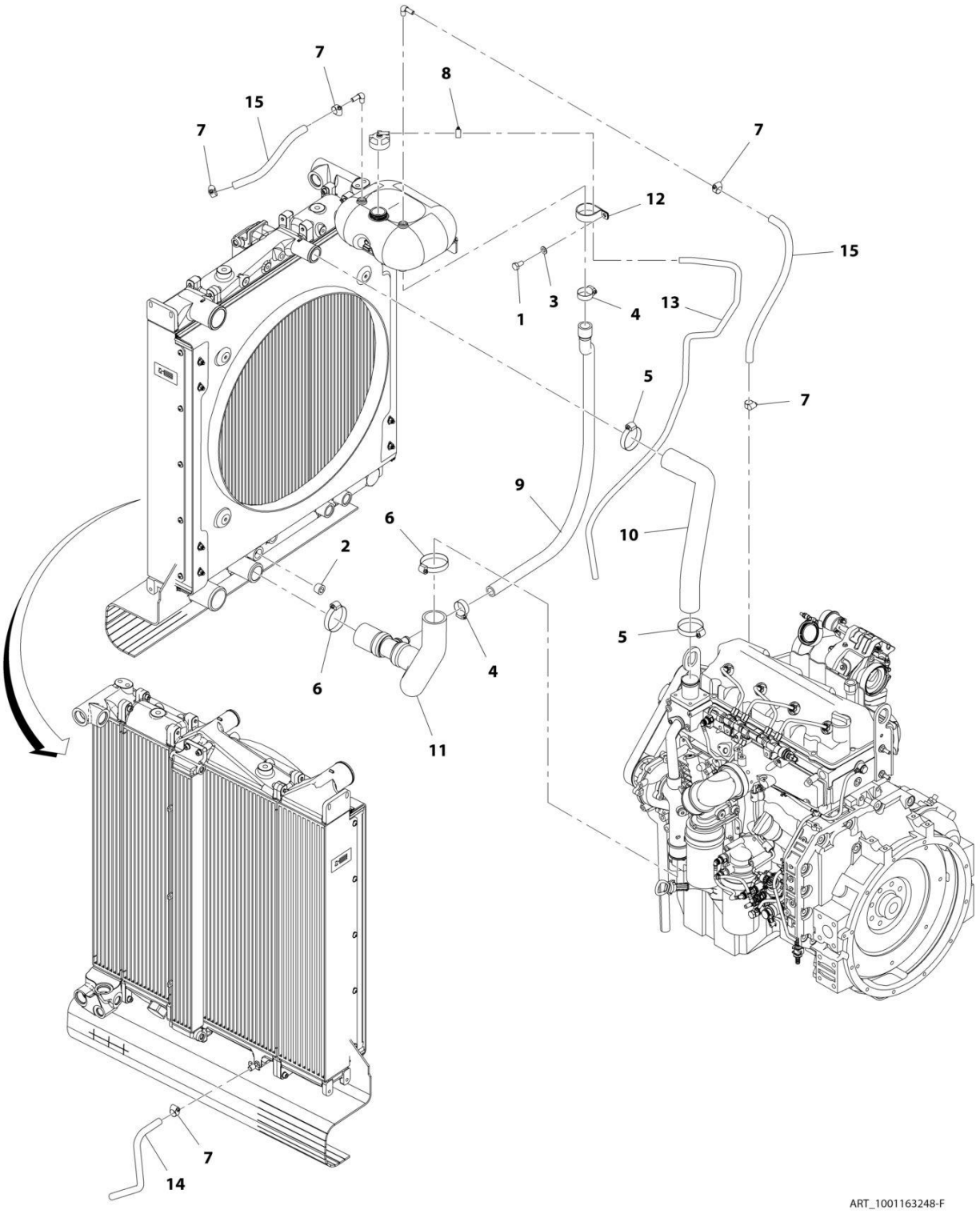


FIGURE 4-15. COOLANT LINES INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163248	Ref	Coolant Lines Installation (LS)	F
1	0761010	1	Bolt, M10X20	
2	2200224	1	Plug	
3	4812000	1	Washer, M10	
4	8405101	2	Clamp, Gear	
5	8405201	2	Clamp, Gear	
6	8405202	2	Clamp, Gear	
7	8410013	5	Clamp, Gear	
8	8405009	1	Clamp, Gear	
9	1001182011	1	Hose	
10	1001166430	1	Pipe	
11	1001182012	1	Hose	
12	1001097588	1	Clamp	
13	1001180542	1680 mm	Hose	
14	1001180553	369 mm	Hose	
15	1001181625	711 mm	Hose	

FIGURE 4-16. COOLING PACKAGE INSTALLATION (ULS)

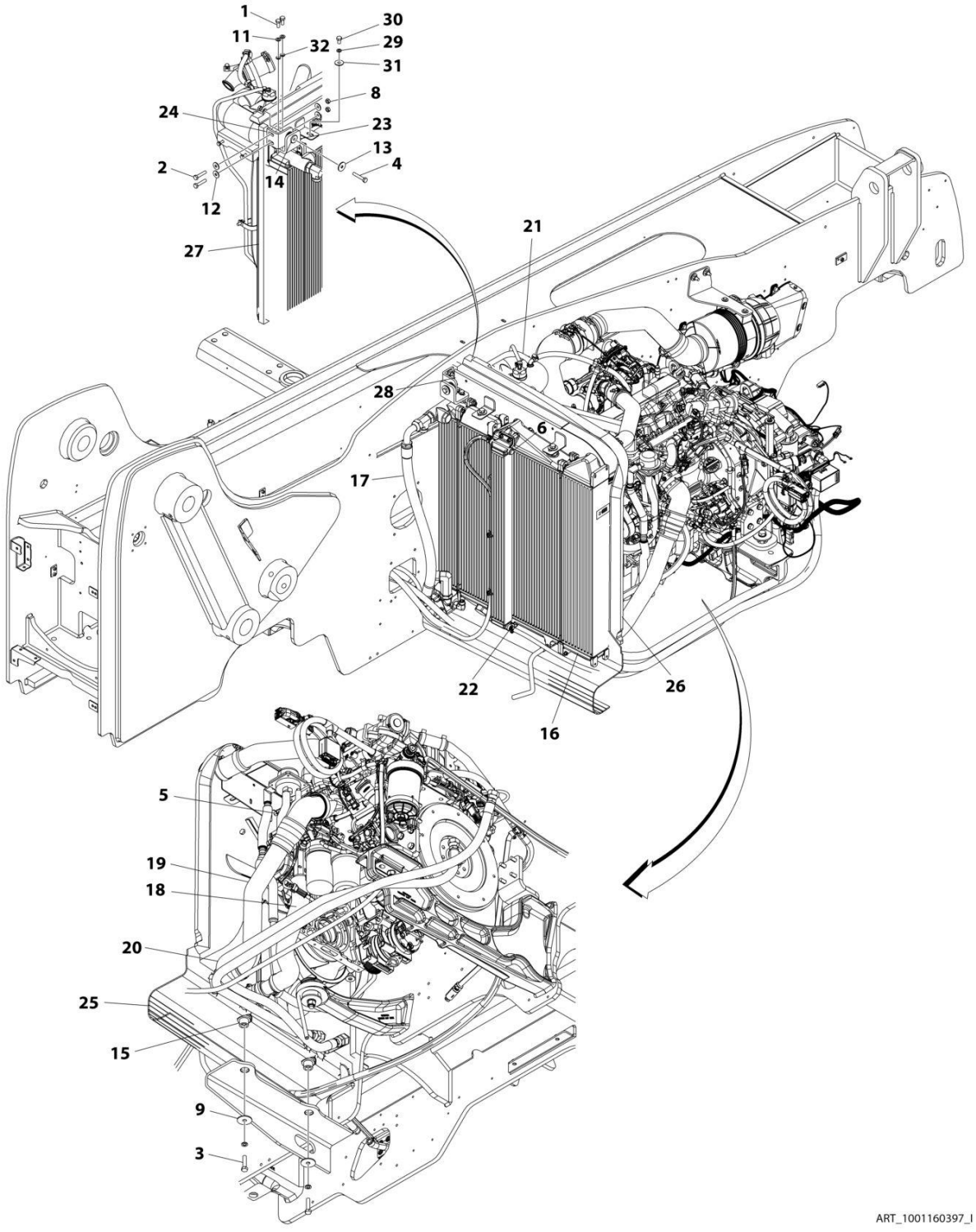


FIGURE 4-16. COOLING PACKAGE INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160397	Ref	Cooling Package Installation (ULS)	I
1	0761012	2	Bolt, M10X25	
2	0701018	2	Bolt, M10X50	
3	0761218	2	Bolt, M12X50	
4	0701020	1	Bolt, M10X60	
5	1001174356	1	Barb, Hose	
6	2220237	2	Plug	
8	3291001	3	Nut, M10X1.5 Grade 8	
9	4740274	4	Washer	
11	4812000	3	Washer, M10	
12	4812002	4	Washer, M10	
13	1001155540	2	Washer	
14	8278020	1	Mount	
15	1001114803	2	Mount	
16	1001159347	1	Radiator Cooling Package (See Separate Breakdown in this Section)	
17	1001163082	1	Installation, HOC Lines (See Separate Breakdown in this Section)	
18	1001163245	1	Installation, Coolant Lines (ULS) (See Separate Breakdown in this Section)	
19	1001163246	1	Installation, CAC Lines (ULS) (See Separate Breakdown in this Section)	
20	1001163247	1	Installation, TOC Lines (See Separate Breakdown in this Section)	
21	1001167078	1	Installation, Surge Tank (See Separate Breakdown in this Section)	
22	1001168030	2	Barb, Hose	
23	1001169173	1	Bracket	
24	1001169174	1	Bracket	
25	1001169965	1	Panel	
26	1001173452	1	Seal, Foam Gasket	
27	1001173457	1	Seal, Foam Gasket	
28	1001173546	1	Bracket	
29	4832100	4	Washer, Lock M12	
30	0761210	2	Bolt, M12X20	
31	4812102	2	Washer, M12	
32	4832000	2	Washer, Lock M10	

FIGURE 4-17. COOLING PACKAGE INSTALLATION (LS)

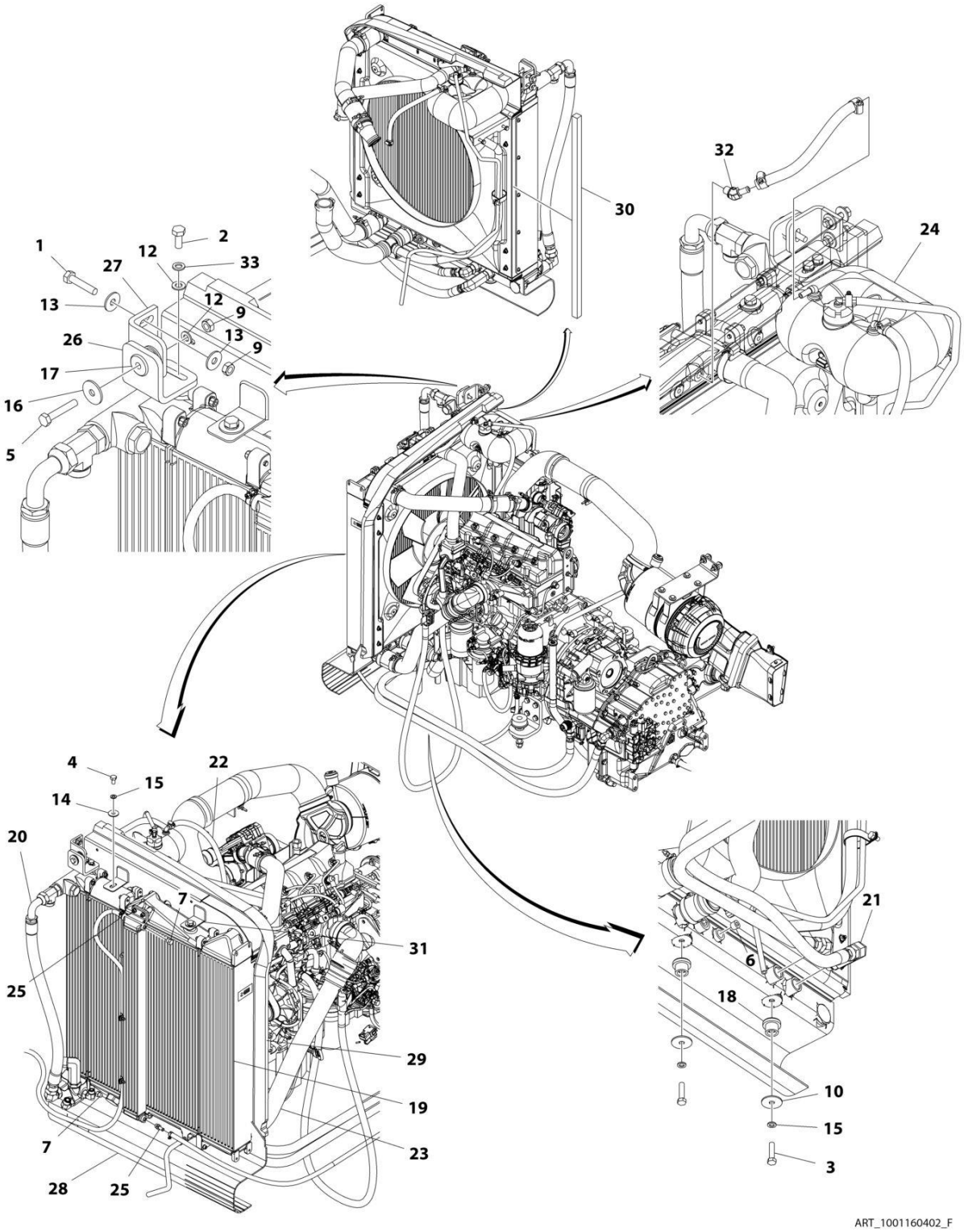


FIGURE 4-17. COOLING PACKAGE INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160402	Ref	Cooling Package Installation (LS)	F
1	0701018	2	Bolt, M10X50	
2	0761012	2	Bolt, M10X25	
3	0761218	2	Bolt, M12X50	
4	0771210	2	Bolt, M12X20 Grade 10.9	
5	0701020	1	Bolt, M10X60	
6	2200223	1	Plug	
7	2220237	2	Plug	
9	3291001	3	Nut, M10X1.5 Grade 8	
10	4740274	4	Washer	
12	4812000	3	Washer, M10	
13	4812002	4	Washer, M10	
14	4812102	2	Washer, M12	
15	4832100	4	Washer, Lock M12	
16	1001155540	2	Washer	
17	8278020	1	Mount	
18	1001114803	2	Mount	
19	1001159347	1	Radiator Cooling Package (See Separate Breakdown in this Section)	
20	1001163082	1	Installation, HOC Lines (See Separate Breakdown in this Section)	
21	1001163247	1	Installation, TOC Lines (See Separate Breakdown in this Section)	
22	1001163248	1	Installation, Coolant Lines (LS) (See Separate Breakdown in this Section)	
23	1001163249	1	Installation, CAC Lines (LS) (See Separate Breakdown in this Section)	
24	1001167078	1	Installation, Surge Tank (See Separate Breakdown in this Section)	
25	1001168030	2	Barb, Hose	
26	1001169173	1	Bracket	
27	1001169174	1	Bracket	
28	1001169965	1	Panel, Air Dam	
29	1001173452	1	Gasket	
30	1001173457	1	Gasket	
31	1001173546	1	Bracket, Air Baffle	
32	1001174356	1	Barb, Hose	
33	4832000	2	Washer, Lock M10	

FIGURE 4-18. DEF PUMP AND CONTROL INSTALLATION

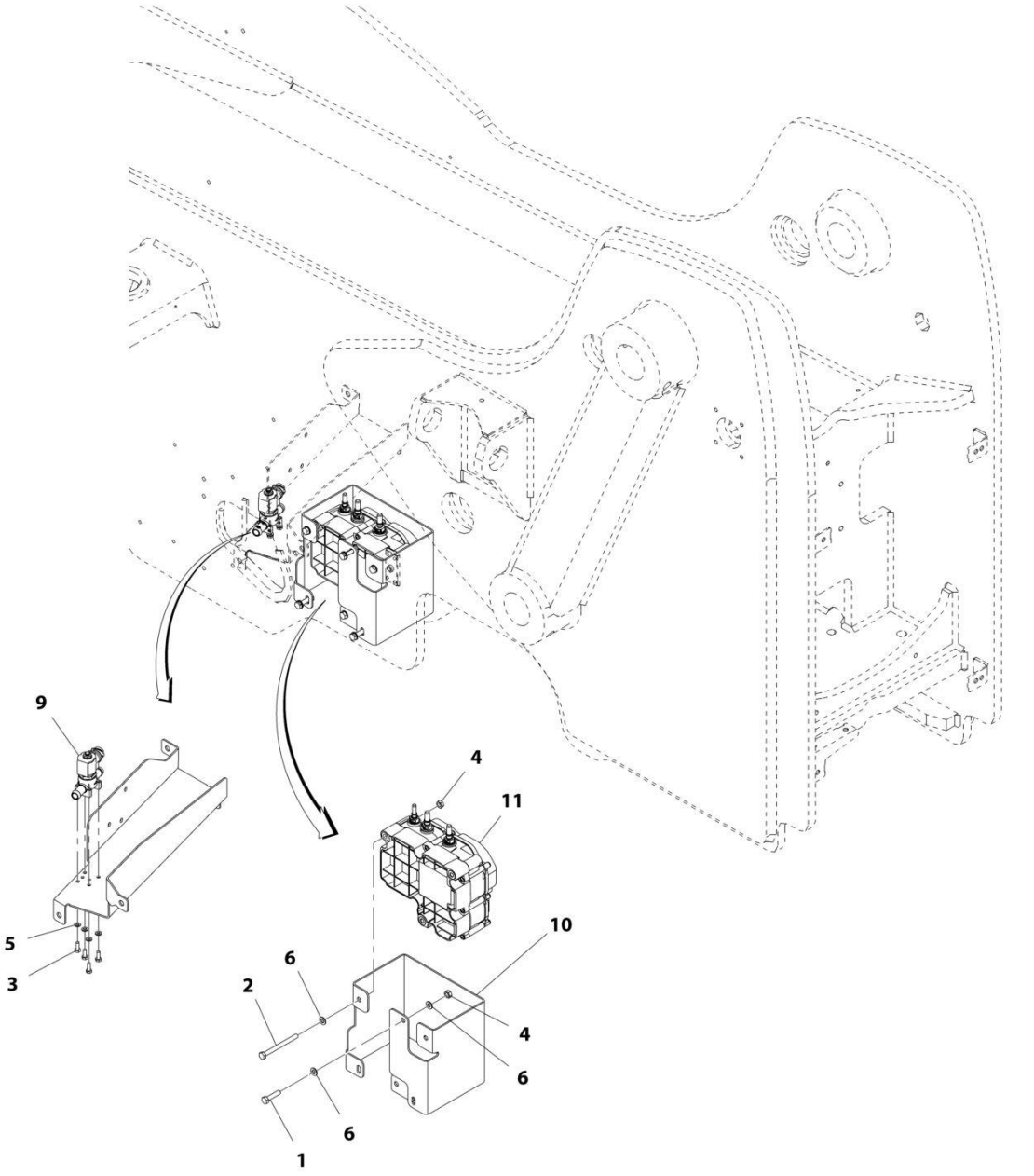


FIGURE 4-18. DEF PUMP AND CONTROL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174271	Ref	DEF Pump and Control Installation	I
1	0700815	3	Bolt, M8X35	
2	0700826	3	Bolt, M8X90	
3	0760608	4	Bolt, M6X16	
4	3290801	5	Nut, M8X1.25	
5	4811700	4	Washer, M6	
6	4811900	8	Washer, M8	
9	1001199670	1	Valve, DEF Tank Coolant Flow	
10	1001191168	1	Bracket	
11	1001213210	1	Pump, Urea (See Separate Breakdown in this Section)	

FIGURE 4-19. DEF LINES INSTALLATION

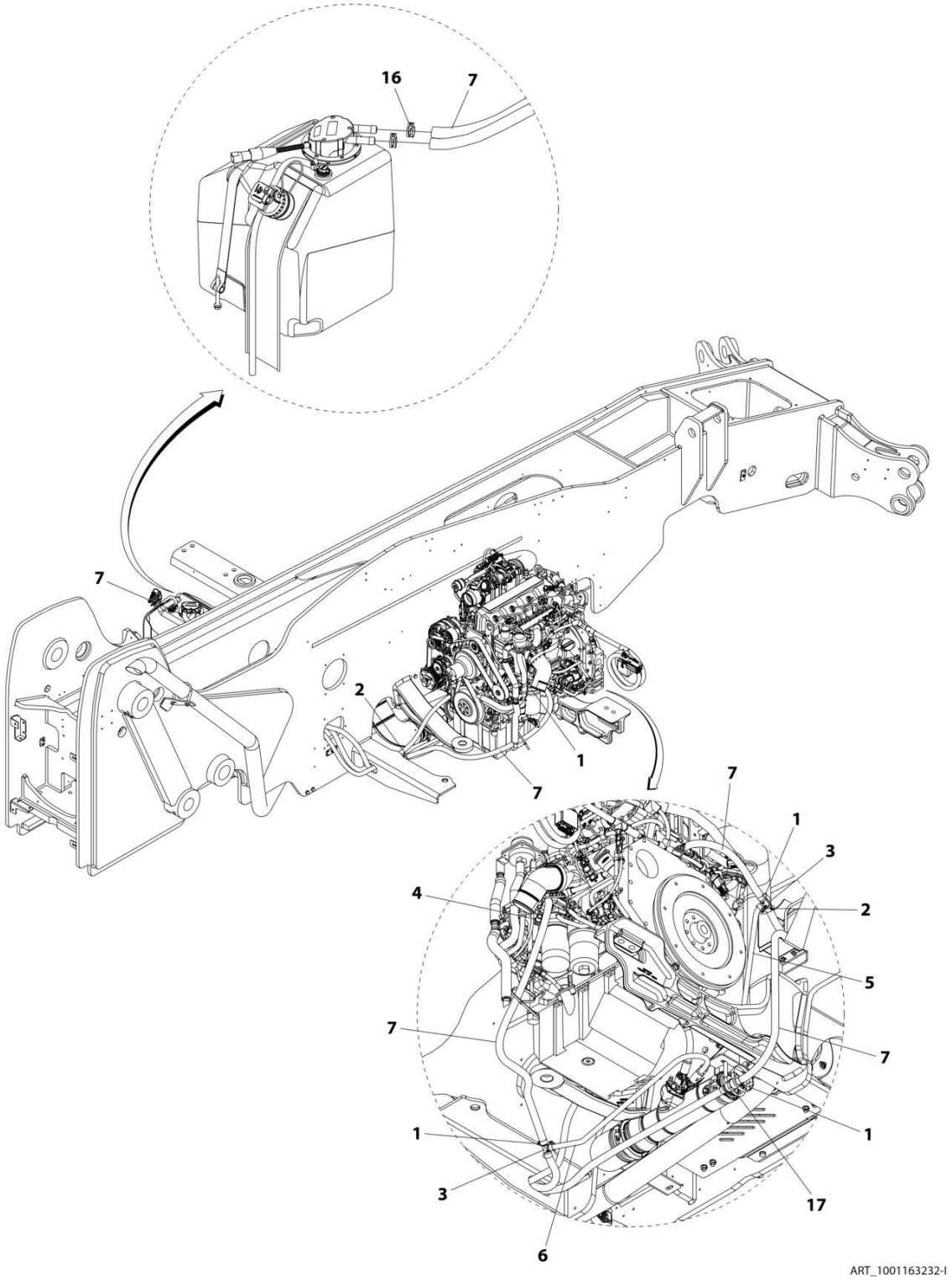


FIGURE 4-19. DEF LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163232	Ref	DEF Lines Installation	I
1	8410009	10	Gear Clamp	
2	8410013	2	Gear Clamp	
3	1001162212	2	Pipe	
4	1001168822	1	Pipe	
5	1001169409	1	Hose	
6	1001169410	1	Hose	
7	82033995	6.9 m	Hose	
16	1001202526	2	Clamp	
17	1001228872	1	Filter	

FIGURE 4-20. DEF TANK INSTALLATION

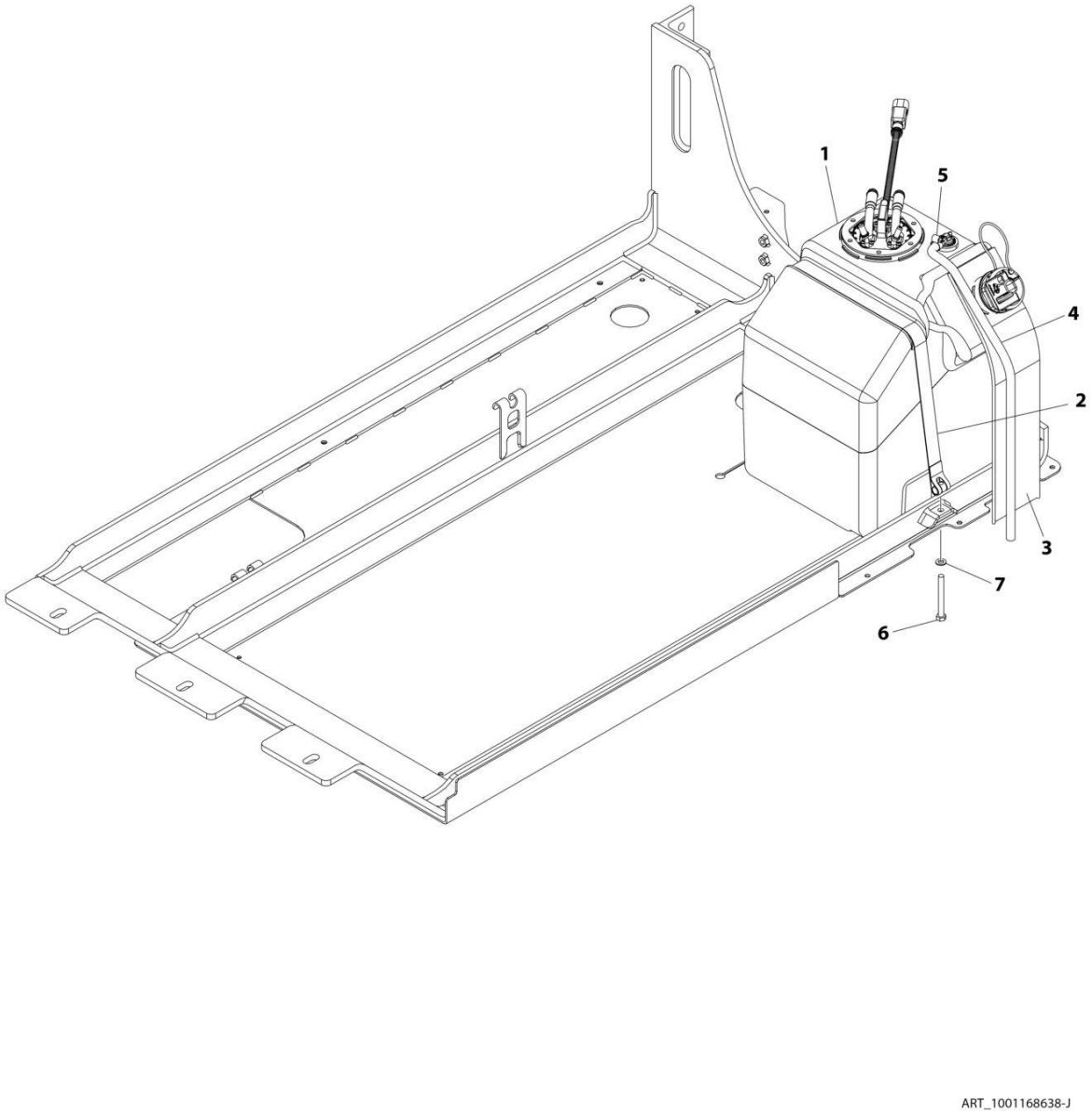


FIGURE 4-20. DEF TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168638	Ref	DEF Tank Installation	J
1	1001230421	1	Tank, DEF (See Separate Breakdown in this Section)	
2	1001178791	1	Strap, Tank	
3	1001168272	1	Sleeve	
4	1001175201	0.6 m	Hose	
5	8405009	1	Clamp, Gear	
6	0760823	1	Bolt, M8X75	
7	4811900	1	Washer, M8	

FIGURE 4-21. DEF TANK ASSEMBLY (SN 0160080898 to Present)

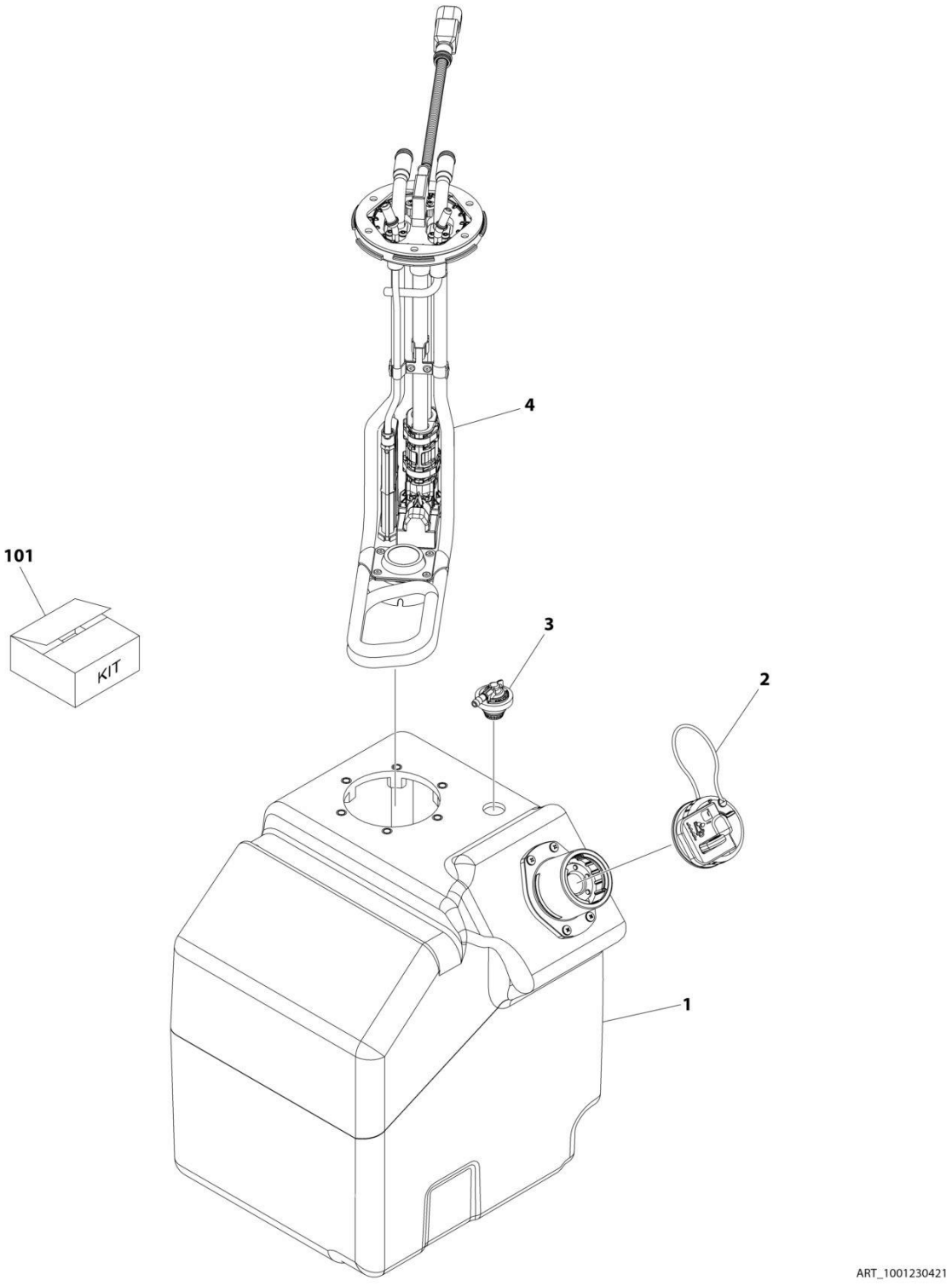


FIGURE 4-21. DEF TANK ASSEMBLY (SN 0160080898 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001230421	Ref	DEF TANK ASSEMBLY	D
1	1001164967	1	Tank	
2	1001174795	1	Cap	
3	1001215319	1	Valve (See Separate Breakdown in this Section)	
4	1001230419	1	Assembly, DEF Electrical (includes item 101)	
101	70029473	1	Siphon Filter Kit	
101	70029474	1	Gasket, Rubber	
101	70029475	1	Flange	
101	70029476	1	Header Assembly w/o Flange and Gasket	

FIGURE 4-22. DEF TANK ASSEMBLY (Prior to SN 0160080898)

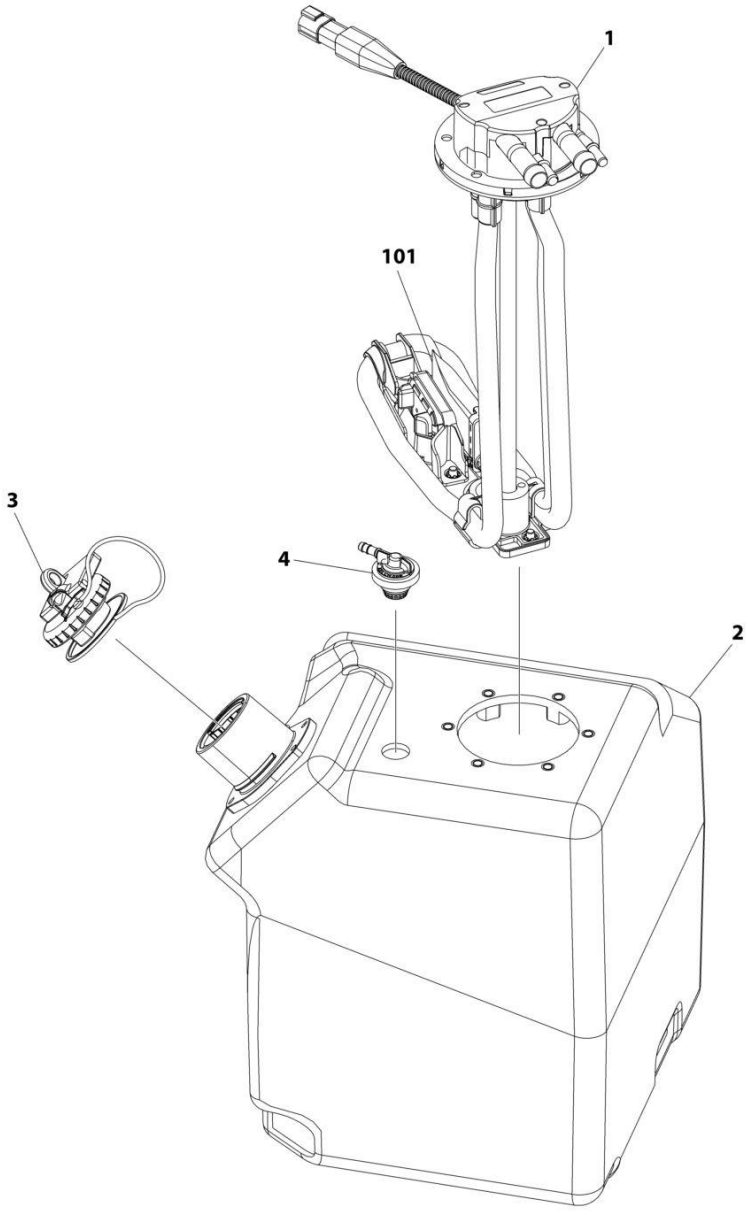


FIGURE 4-22. DEF TANK ASSEMBLY (Prior to SN 0160080898)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001164966	Ref	DEF Tank Assembly	G
1	1001164964	1	Assembly, DEF Electrical (includes item 101)	
2	1001164967	1	Tank	
3	1001174795	1	Cap	
4	1001215319	1	Valve (See Separate Breakdown in this Section)	
101	70026584	1	Filter, DEF	

FIGURE 4-23. DEF PUMP LINES INSTALLATION

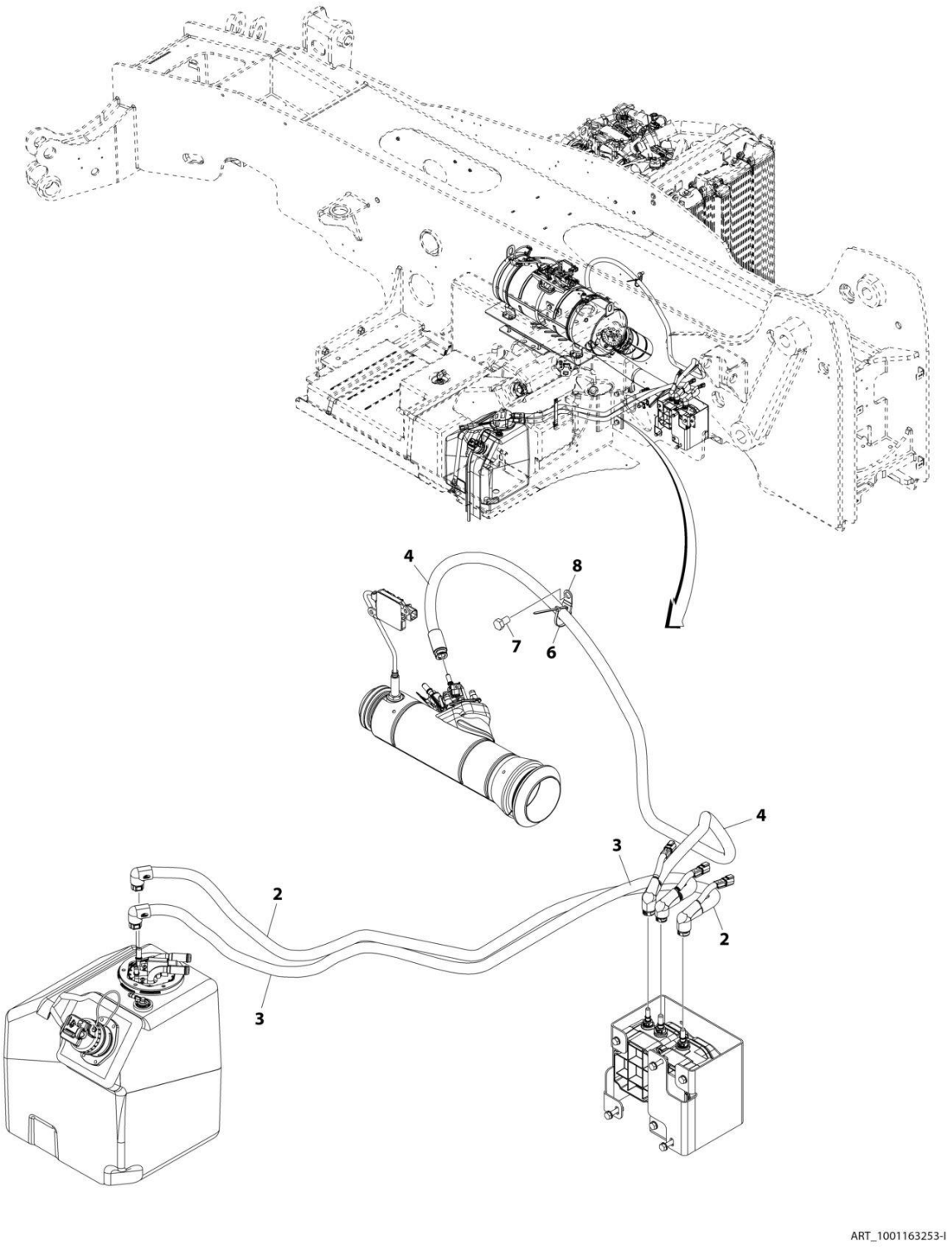


FIGURE 4-23. DEF PUMP LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163253	Ref	DEF Pump Lines Installation	I
1	0760607	AR	Bolt, M6X14	
2	1001231002	1	Hose	
3	1001231003	1	Hose	
4	1001167971	1	Hose	
5	1001196440	AR	Plate, Retainer	
6	8881802	1	Strap, Tie	
7	0761210	1	Bolt, M12X20	
8	1001025750	1	Clip	
9	4831700	AR	Washer, Lock M6	

FIGURE 4-24. DEF BREATHER VALVE

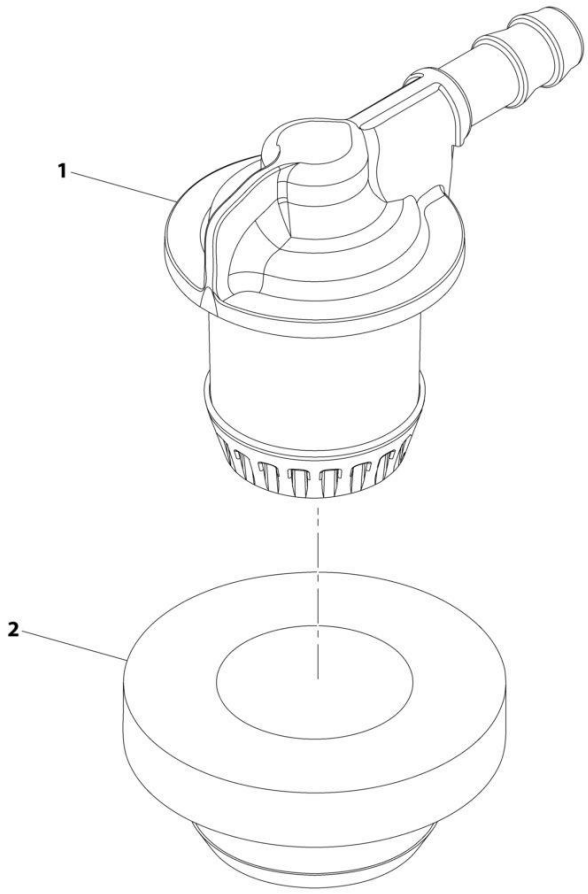


FIGURE 4-24. DEF BREATHER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215319	Ref	DEF Breather Valve	B
1	1001239510	1	Valve, DEF Breather	
2	1001239511	1	Grommet, DEF Breather	

FIGURE 4-25. ENGINE INSTALLATION (ULS)

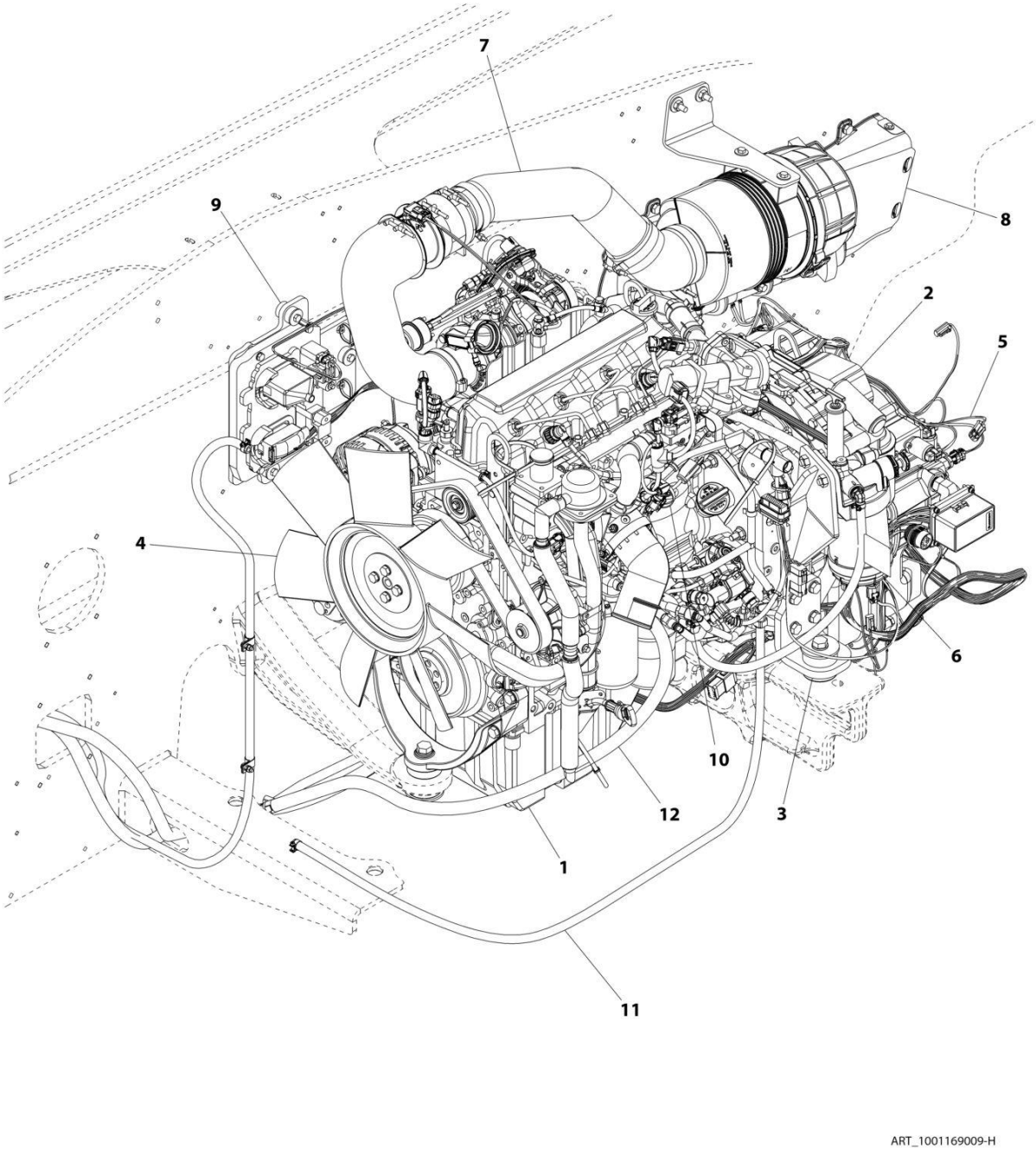


FIGURE 4-25. ENGINE INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169009	Ref	Engine Installation, 110HP (ULS)	H
1	1001154511	Ref	Engine, 110HP (ULS) (See Separate Breakdown in this Section)	
2	1001161664	Ref	Installation, Transmission (See Separate Breakdown in DRIVETRAIN Section)	
3	1001163227	Ref	Installation, Engine Mounting (See Separate Breakdown in this Section)	
4	1001163230	Ref	Installation, Fan (See Separate Breakdown in this Section)	
5	1001163233	Ref	Installation, Engine Wiring (ULS) (See Separate Breakdown in ELECTRICAL Section)	
6	1001163235	Ref	Installation, Primary Fuel Filter (See Separate Breakdown in this Section)	
7	1001169011	Ref	Installation, Air Cleaner Lines (See Separate Breakdown in this Section)	
8	1001169012	Ref	Installation, Air Cleaner (See Separate Breakdown in this Section)	
9	1001194286	Ref	Installation, Engine ECU (See Separate Breakdown in ELECTRICAL Section)	
10	1062255	1	Strap, Tie	
11	1001163231	Ref	Installation, Fuel Lines (See Separate Breakdown in this Section)	
12	1001163232	Ref	Installation, DEF Lines (See Separate Breakdown in this Section)	

FIGURE 4-26. ENGINE INSTALLATION (LS)

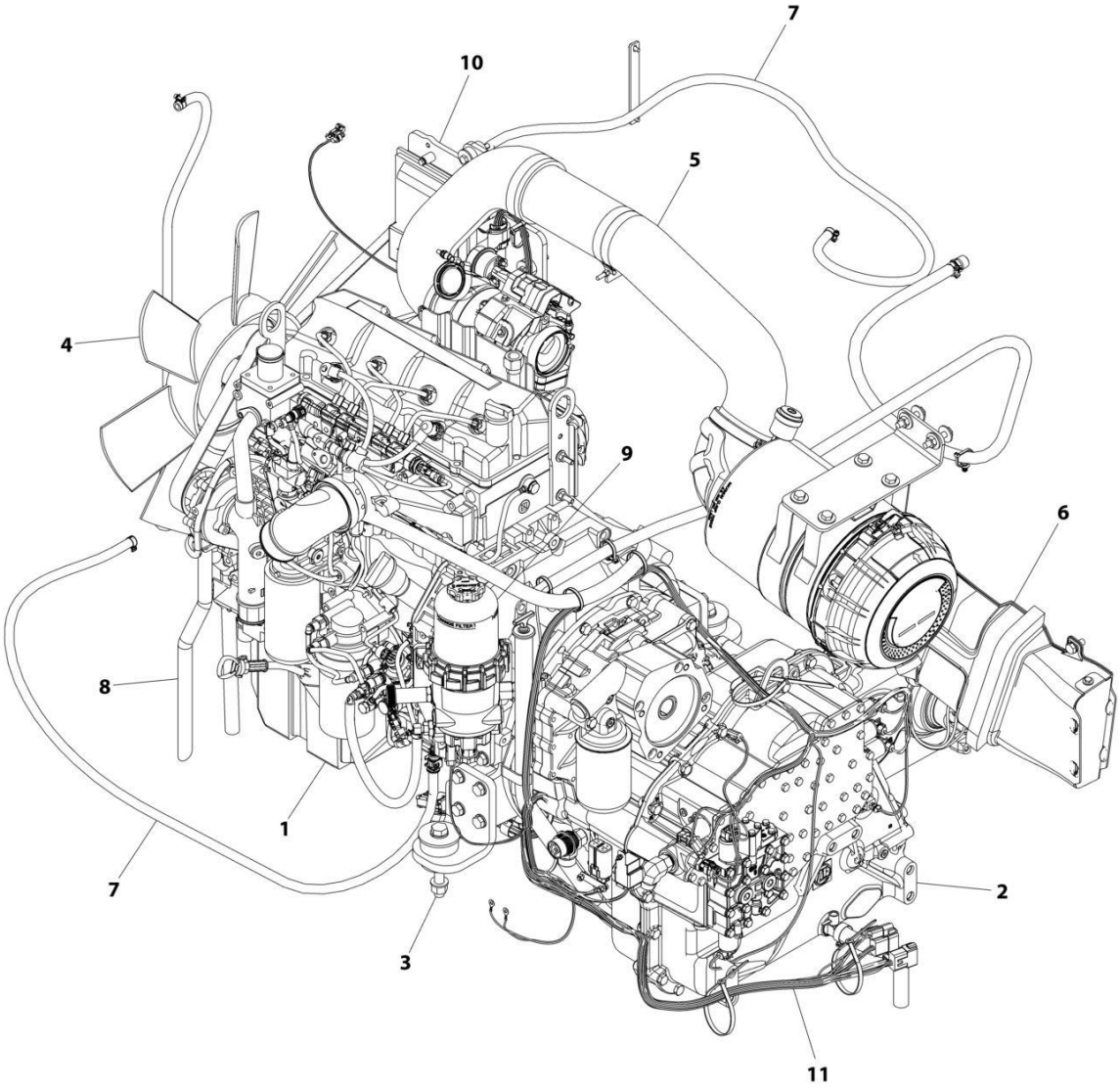


FIGURE 4-26. ENGINE INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160396	Ref	Engine Installation, 110HP (LS)	D
1	1001154790	Ref	Engine, 110HP (LS) (See Separate Breakdown in this Section)	
2	1001161664	Ref	Installation, Transmission (See Separate Breakdown in DRIVETRAIN Section)	
3	1001163227	Ref	Installation, Engine Mounting (See Separate Breakdown in this Section)	
4	1001163230	Ref	Installation, Fan (See Separate Breakdown in this Section)	
5	1001163238	Ref	Installation, Air Intake Lines (LS) (See Separate Breakdown in this Section)	
6	1001163239	Ref	Installation, Air Cleaner (LS) (See Separate Breakdown in this Section)	
7	1001163241	Ref	Installation, Fuel Lines (LS) (See Separate Breakdown in this Section)	
8	1001176228	1	Hose, 3.8L	
9	1001180076	Ref	Installation, Primary Fuel Filter (LS) (See Separate Breakdown in this Section)	
10	1001180242	Ref	Installation, Engine ECM (LS) (See Separate Breakdown in ELECTRICAL Section)	
11	1001163242	Ref	Installation, Engine Wiring (LS) (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 4-27. EXHAUST INSTALLATION (ULS)

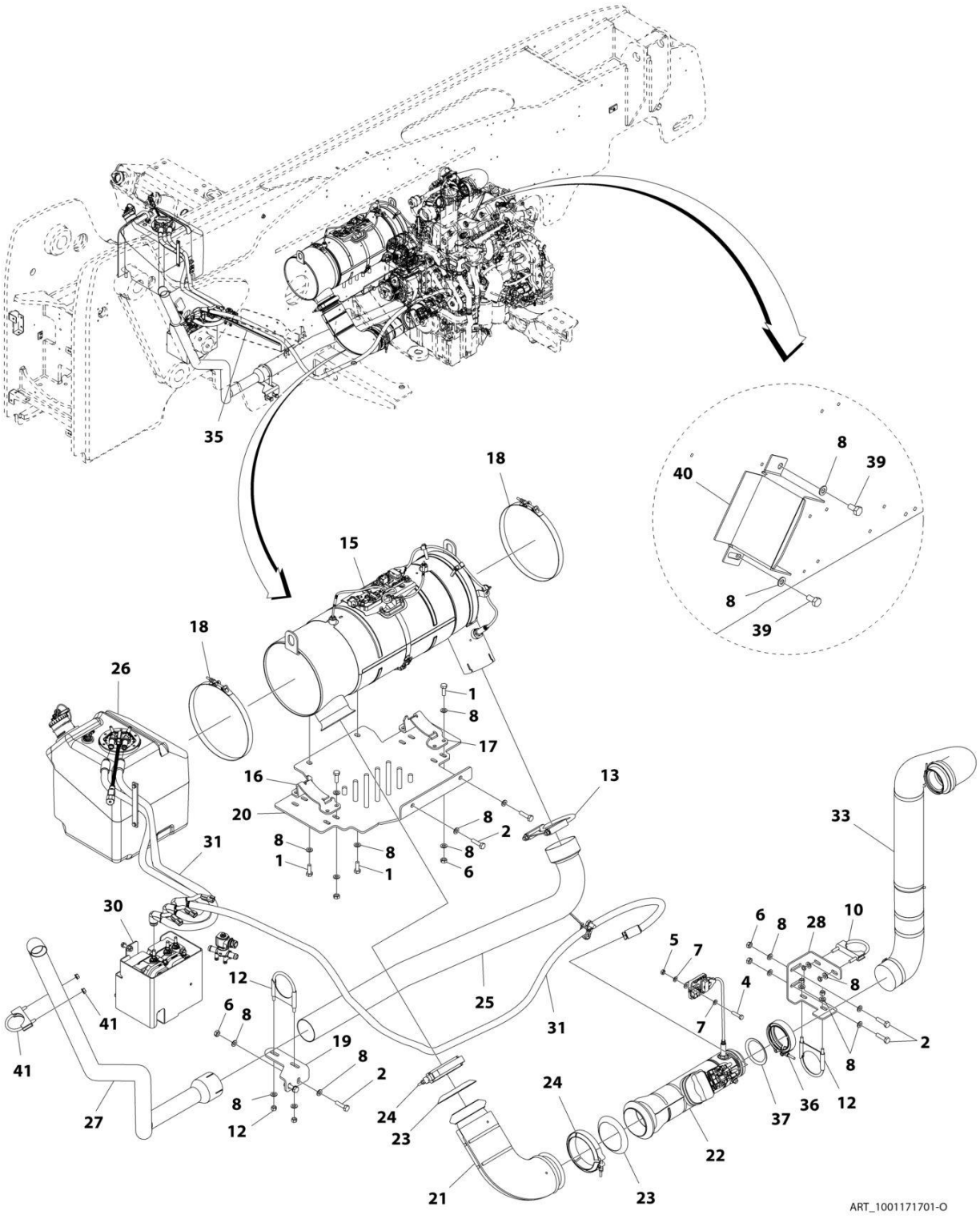


FIGURE 4-27. EXHAUST INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171701	1	Exhaust Installation (ULS)	O
1	0701014	10	Bolt, M10X30	
2	0701016	6	Bolt, M10X40	
4	0760815	2	Bolt, M8X35	
5	3290801	2	Nut, M8X1.25	
6	3291001	12	Nut, M10X1.5	
7	4811900	4	Washer, M8	
8	4812000	36	Washer, M10	
10	8275212	1	Clamp	
12	24921332	2	Clamp	
13	86883127	1	Clamp	
15	1001155261	1	Muffler	
16	1001159881	1	Bracket	
17	1001159882	1	Bracket	
18	1001176945	2	Strap	
19	1001162281	1	Support	
20	1001162597	1	Bracket	
21	1001163546	1	Pipe	
22	1001164404	1	Tube, Decomposition Reactor	
23	1001164837	2	Gasket	
24	1001164838	2	Clamp	
25	1001168560	1	Pipe	
26	1001168638	Ref	Installation, DEF Tank (See Separate Breakdown in this Section)	
27	1001204144	1	Pipe	
28	1001183836	1	Bracket	
30	1001174271	Ref	Installation, DEF Pump and Control (See Separate Breakdown in this Section)	
31	1001163253	Ref	Installation, DEF Pump Lines (See Separate Breakdown in this Section)	
33	1001183759	1	Pipe	
35	90206195	490 mm	Trim-Lock	
36	1001167167	1	Clamp	
37	1001167168	1	Seal	
39	0761010	2	Bolt, M10X20	
40	1001179206	1	Bracket	
41	86683211	1	Clamp	

FIGURE 4-28. EXHAUST INSTALLATION (LS)

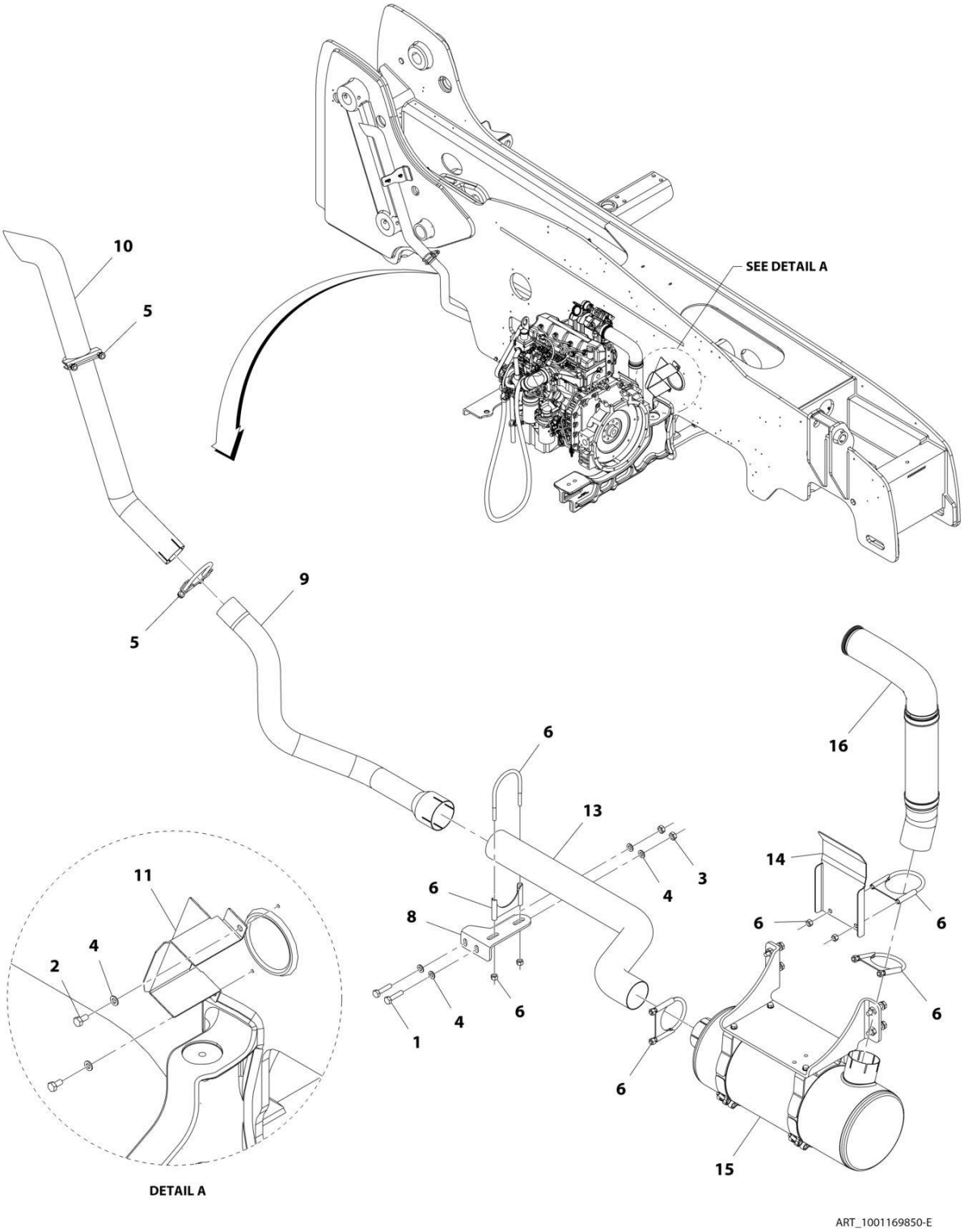
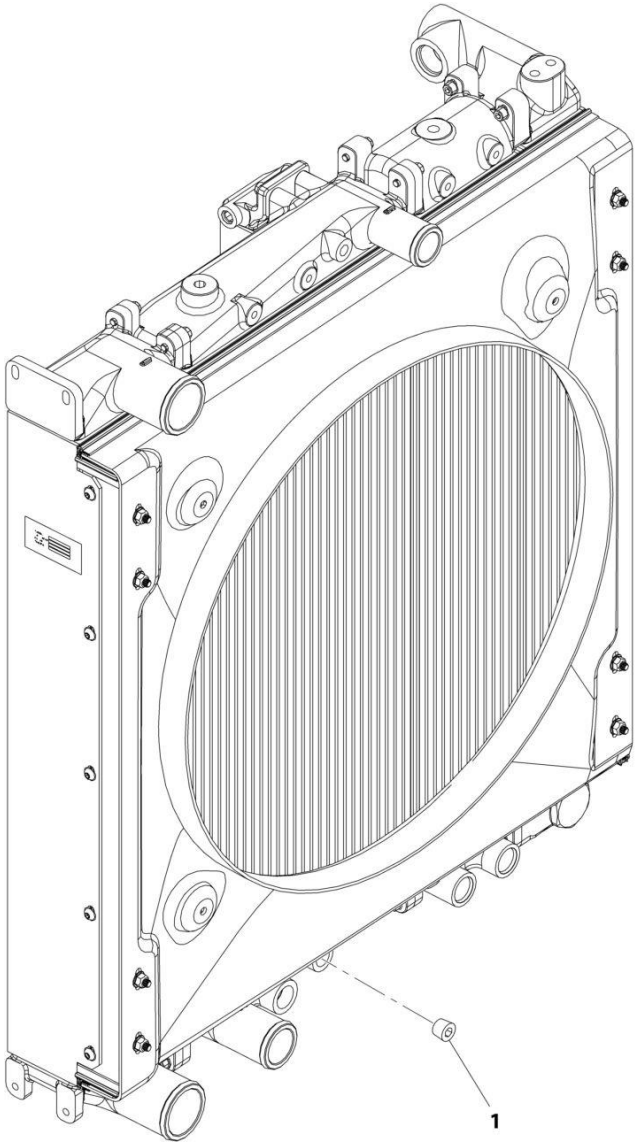


FIGURE 4-28. EXHAUST INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169850	Ref	Exhaust Installation (LS)	E
1	0701017	2	Bolt, M10X45	
2	0761010	2	Bolt, M10X20	
3	3291001	2	Nut, M10X1.5	
4	4812000	6	Washer, M10	
5	8275212	2	Clamp, Exhaust	
6	24921332	4	Clamp, Exhaust	
8	1001162281	1	Bracket, Exhaust	
9	1001208186	1	Pipe, Exhaust	
10	1001173626	1	Pipe, Exhaust	
11	1001179206	1	Bracket, Heat Shield	
13	1001179972	1	Pipe, Exhaust	
14	1001181815	1	Plate, Heat Shield	
15	1001179968	1	Installation, Muffler (LS) (See Separate Breakdown in this Section)	
16	1001191348	1	Pipe, Exhaust Flex	

FIGURE 4-29. ENGINE PARTS INSTALLATION (WITHOUT HEATER)



ART_1001163133-D

FIGURE 4-29. ENGINE PARTS INSTALLATION (WITHOUT HEATER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163133	Ref	Engine Parts Installation (No Heater)	D
1	2200223	1	Plug	

FIGURE 4-30. ENGINE PARTS INSTALLATION (WITH HEATER)

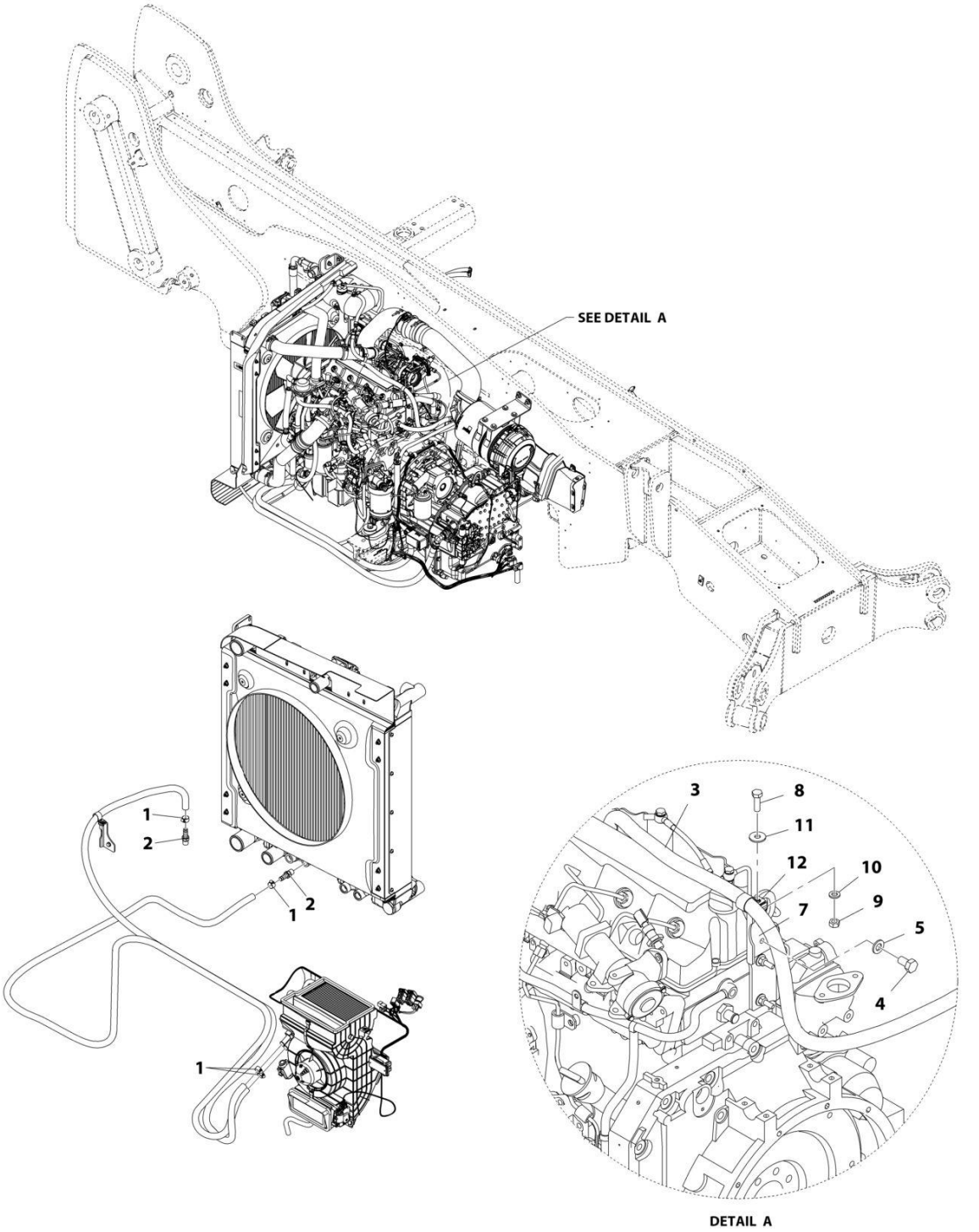


FIGURE 4-30. ENGINE PARTS INSTALLATION (WITH HEATER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163134	Ref	Engine Parts Installation (Heater)	J
1	8410009	4	Clamp, Gear	
2	1001104685	2	Pipe	
3	82033995	7 m	Hose	
4	0760807	1	Bolt, M8X14	
5	4811900	1	Washer, M8	
7	1001200555	1	Bracket	
8	0700610	1	Bolt, M6X20	
9	3290601	1	Nut, M6X1	
10	4811700	1	Washer, M6	
11	4811702	1	Washer, M6	
12	8406201	1	Clip	

FIGURE 4-31. ENGINE MOUNTING INSTALLATION

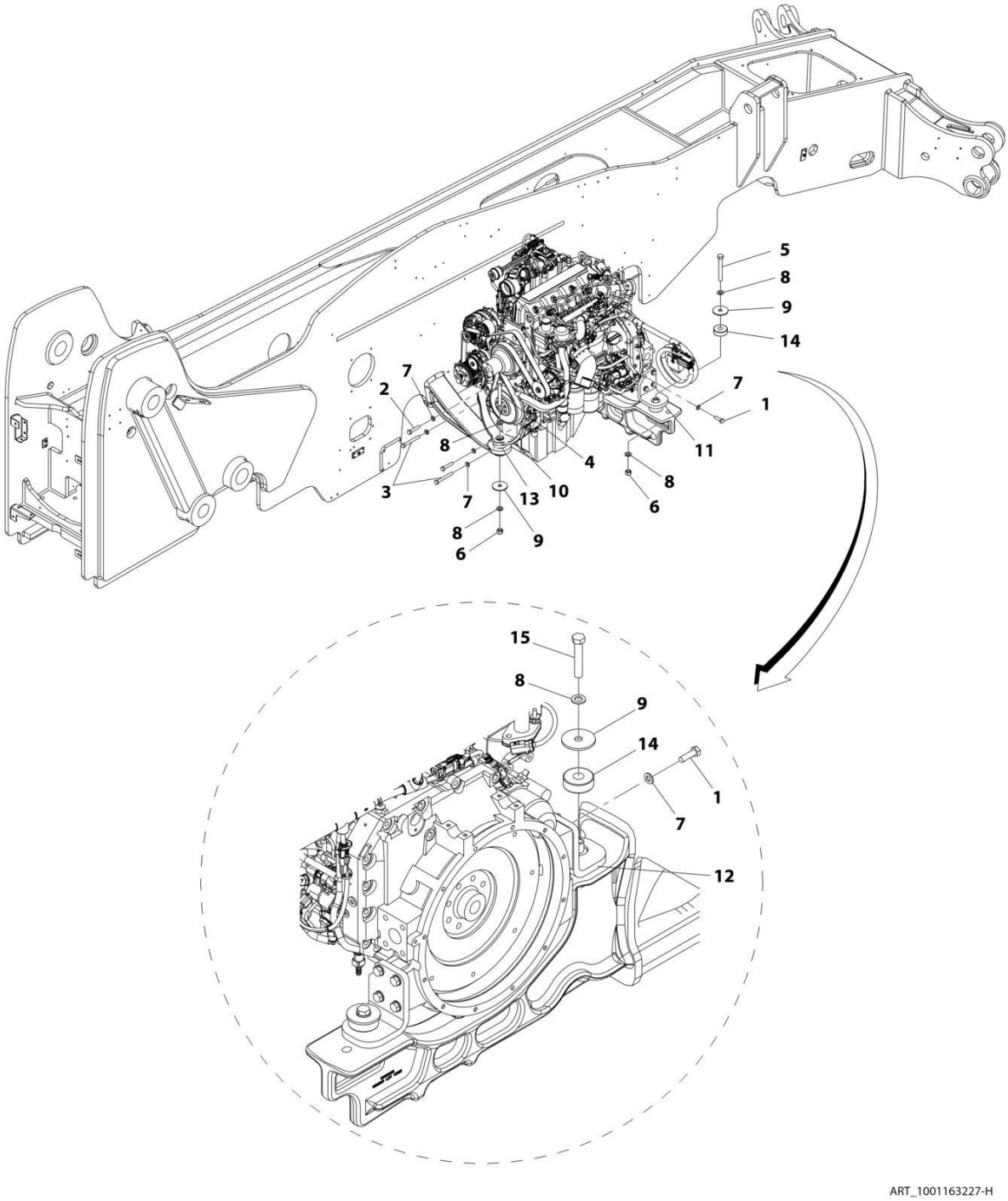


FIGURE 4-31. ENGINE MOUNTING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163227	Ref	Engine Mounting Installation	H
1	0701216	8	Bolt, M12X40	
2	0701220	2	Bolt, M12X60	
3	0701227	2	Bolt, M12X100	
4	0711629	1	Bolt, M16x120	
5	0711630	1	Bolt, M16X130	
6	3331615	2	Nut, M16	
7	4812100	12	Washer, M12	
8	4812300	5	Washer, M16	
9	7300435	3	Washer	
10	1001160116	1	Bracket, Engine	
11	1001168795	1	Plate, Engine Mount	
12	1001168797	1	Plate, Engine Mount	
13	1001160888	1	Mount, Isolator Engine	
14	1001195518	2	Mount, Isolator Engine	
15	0711626	1	Bolt, M16X90	

FIGURE 4-32. ENGINE ASSEMBLY (3.8L)(LS)

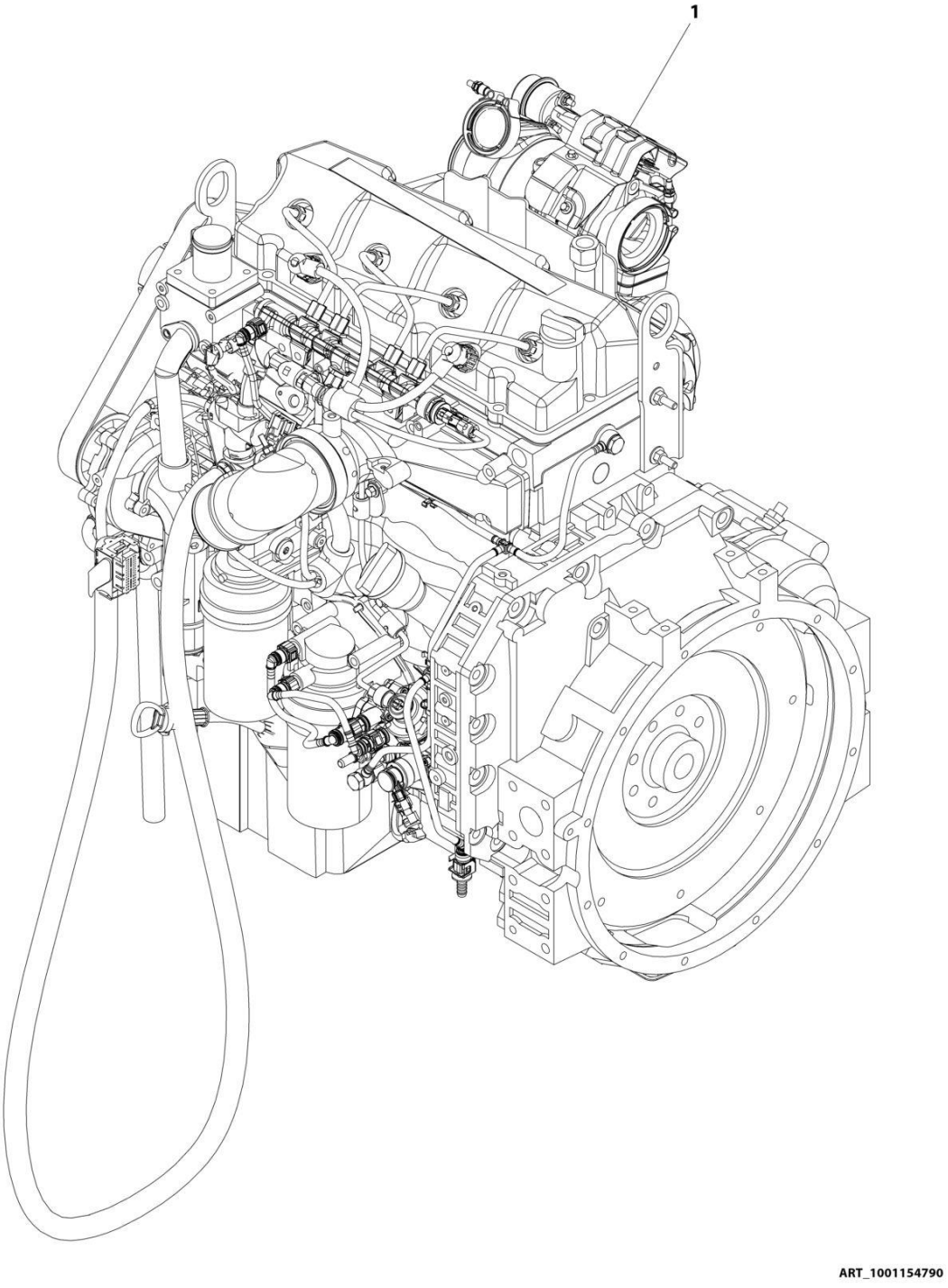


FIGURE 4-32. ENGINE ASSEMBLY (3.8L)(LS)

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

FIGURE 4-33. ENGINE ASSEMBLY (3.8L)(ULS)

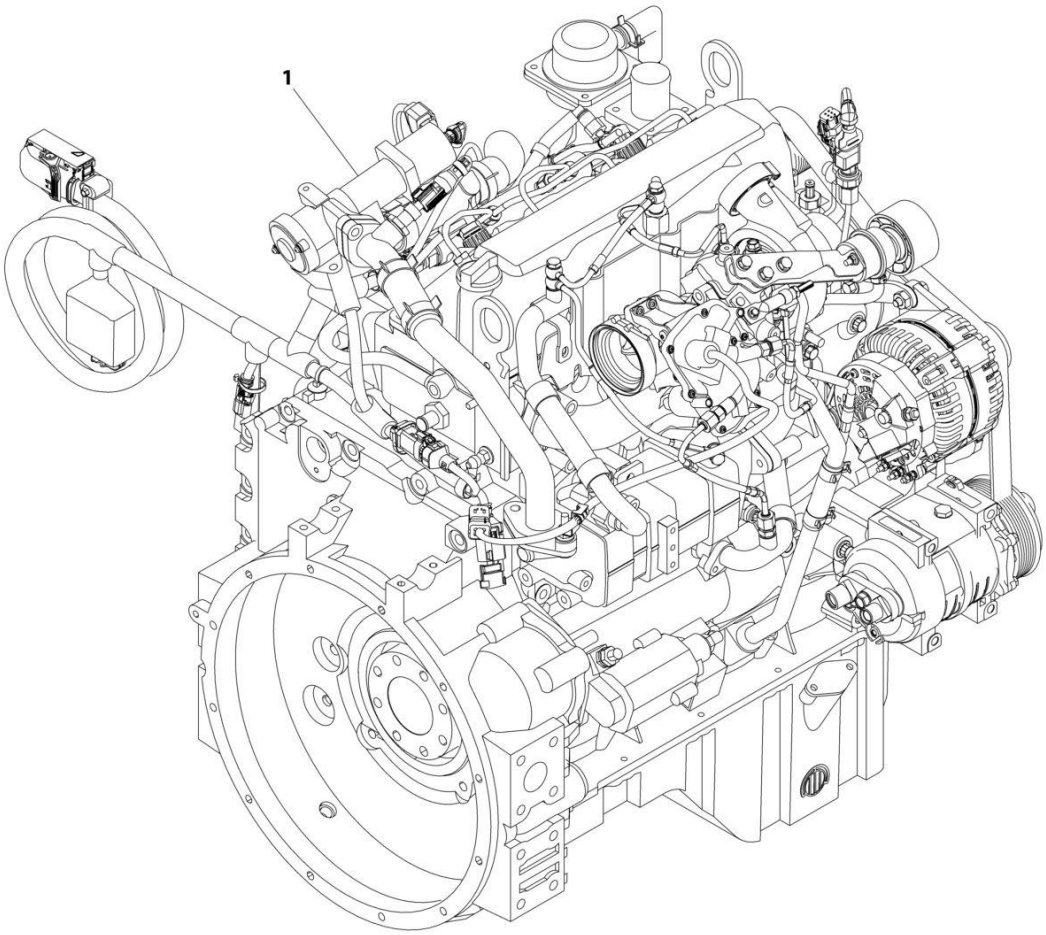


FIGURE 4-33. ENGINE ASSEMBLY (3.8L)(ULS)

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

FIGURE 4-34. FUEL TANK ASSEMBLY

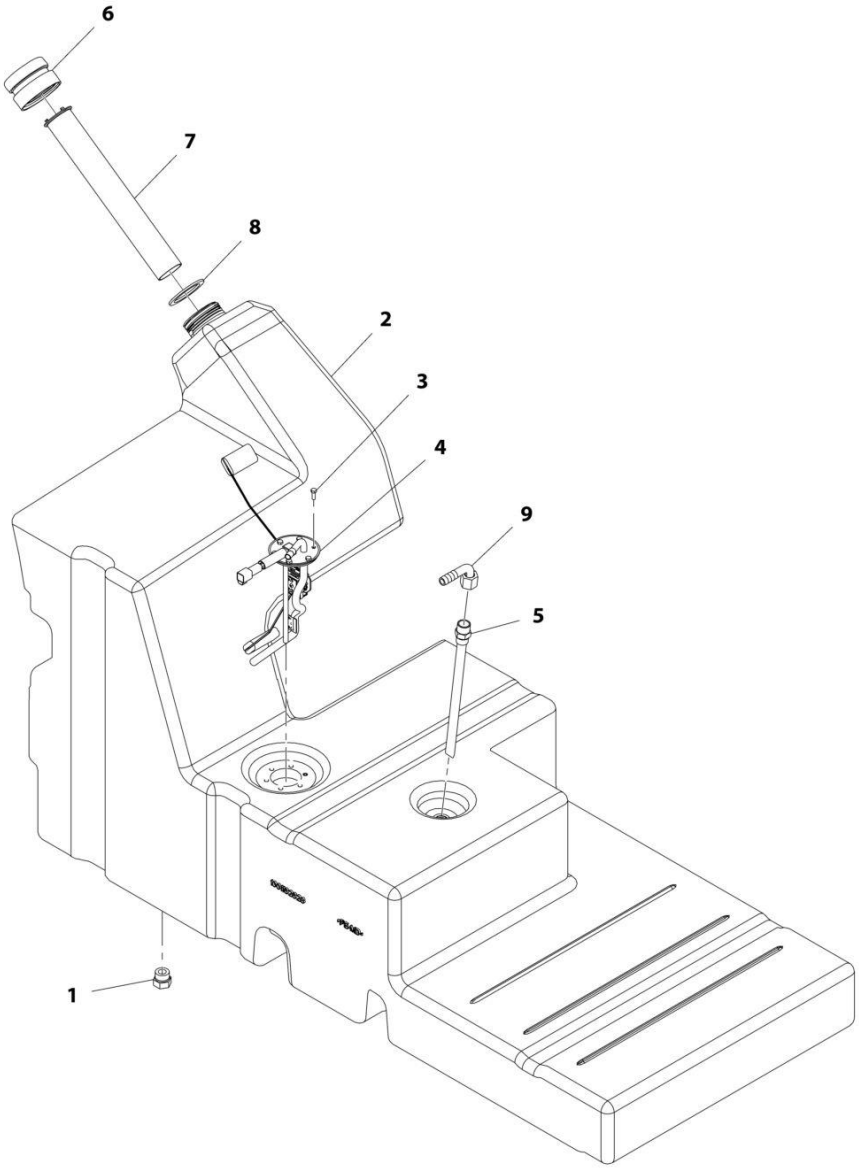


FIGURE 4-34. FUEL TANK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163066	Ref	Fuel Tank Assembly	K
1	1001003427	1	Plug	
2	1001162628	1	Tank, Fuel	
3	0760507	6	Bolt, M5X14	
4	1001169867	1	Gauge, Fuel Level	
5	1001170105	1	Pipe, Fuel Supply	
6	1001207282	1	Fitting, Straight	
7	1001207557	1	Tube	
8	1001172178	1	Gasket	
9	1001172587	1	Coupling, ORFS	

FIGURE 4-35. FUEL LINES INSTALLATION (ULS)

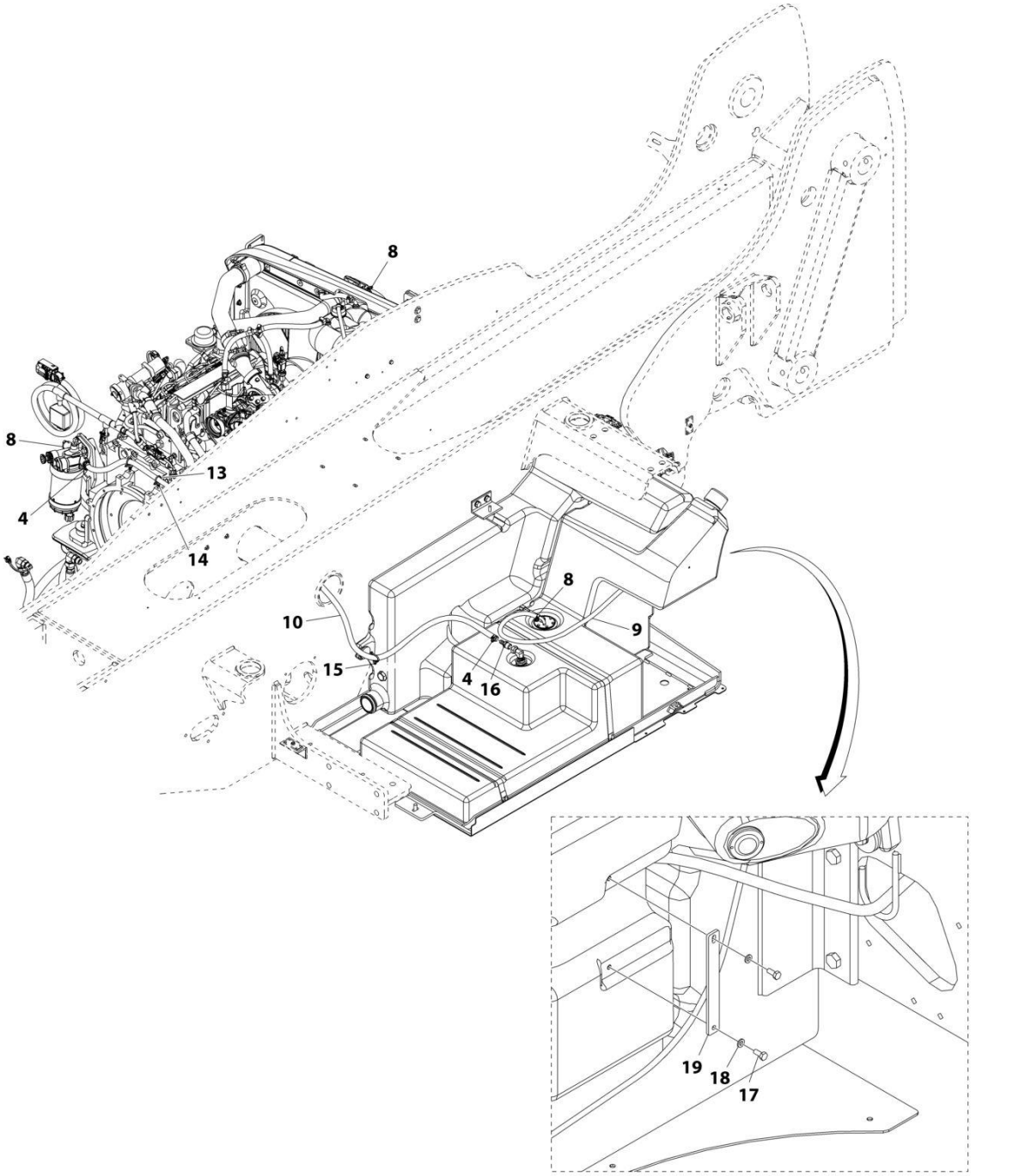


FIGURE 4-36. FUEL LINES INSTALLATION (ULS)

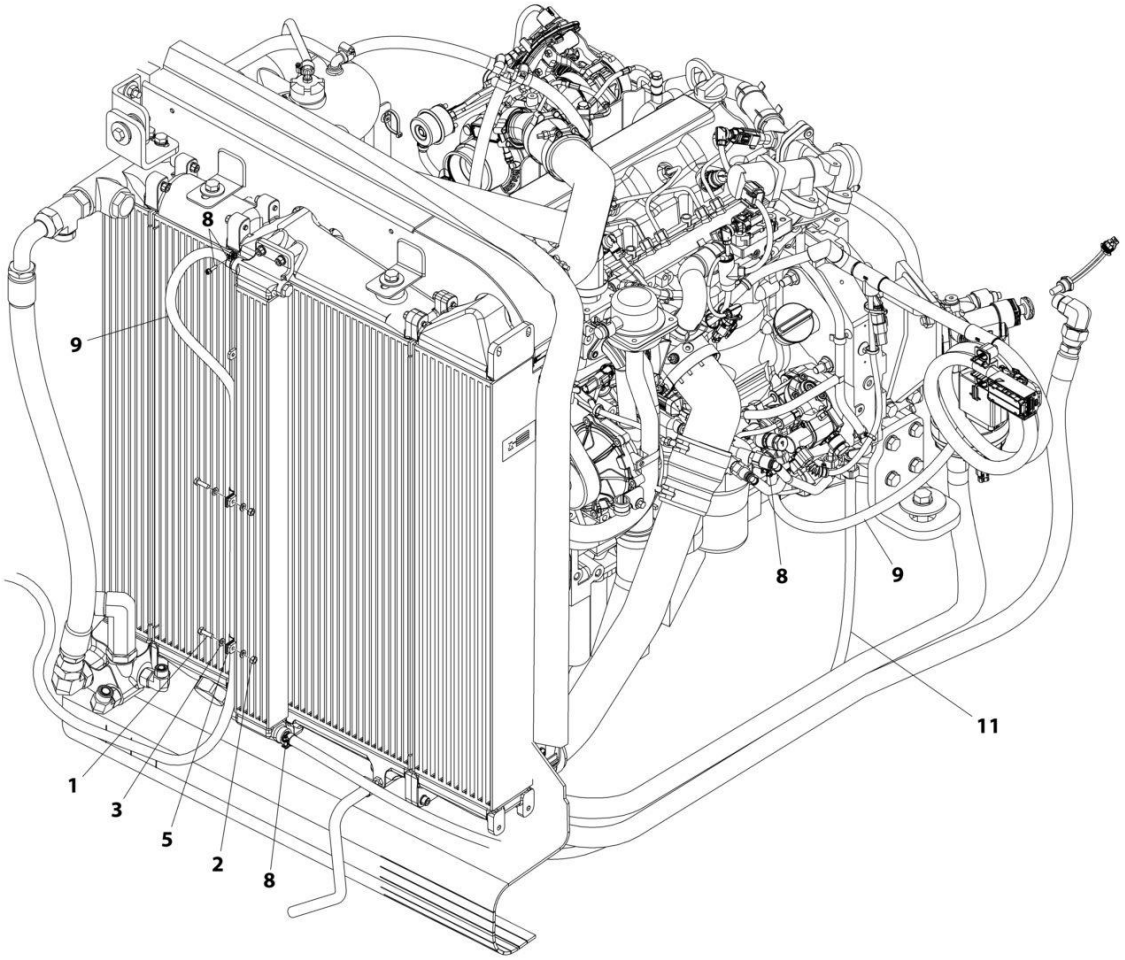


FIGURE 4-36. FUEL LINES INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163231	Ref	Fuel Lines Installation	J
1	0700610	2	Bolt, M6X20	
2	3290601	2	Nut, M6X1 Grade 8	
3	4811700	4	Washer, M6	
4	1001186342	2	Clip, Hose	
5	8406112	2	Clip, Tube	
8	1001136975	5	Clamp	
9	1001141400	4.3 m	Hose	
10	1001172755	2.4 m	Hose	
11	1001197299	1	Hose	
13	1001008559	2	Strap	
14	1001202986	2	Strap, Fir Tree Push Mount	
15	1001146588	1	Strap	
16	1001206588	1	Fitting	
17	0760607	2	Nut, M6X14	
18	4831700	2	Washer, Lock M6	
19	1001196440	1	Plate, Retainer	

FIGURE 4-37. FUEL LINES INSTALLATION (LS)

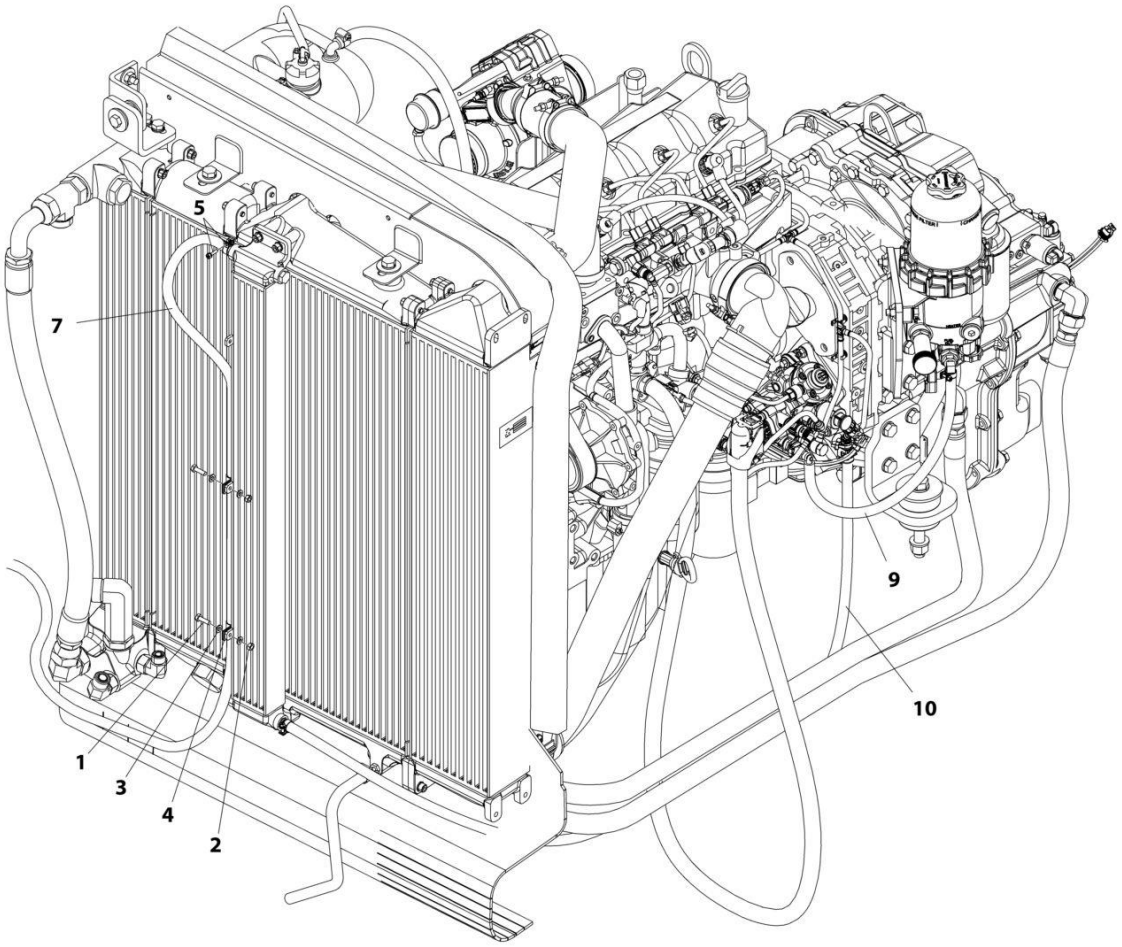


FIGURE 4-37. FUEL LINES INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163241	Ref	Fuel Lines Installation (LS)	G
1	0700610	2	Bolt, M6X20	
2	3290601	2	Nut, M6X1 Grade 8	
3	4811700	4	Washer, M6	
4	8406112	2	Clip	
5	1001136975	4	Clamp	
6	1001186342	2	Clip	
7	1001141400	3.7 m	Hose	
8	1001172755	2.4 m	Hose	
9	1001190980	1	Hose	
10	1001197299	1	Hose	
11	0760607	2	Bolt, M6X14	
12	4831700	2	Washer, Lock M6	
13	1001196440	1	Plate, Retainer	
14	1001202986	2	Strap, Fir Tree Push Mount	
15	1001008559	2	Strap	
16	1001146588	1	Strap	
17	1001206588	1	Fitting	

FIGURE 4-38. FUEL LINES INSTALLATION (LS)

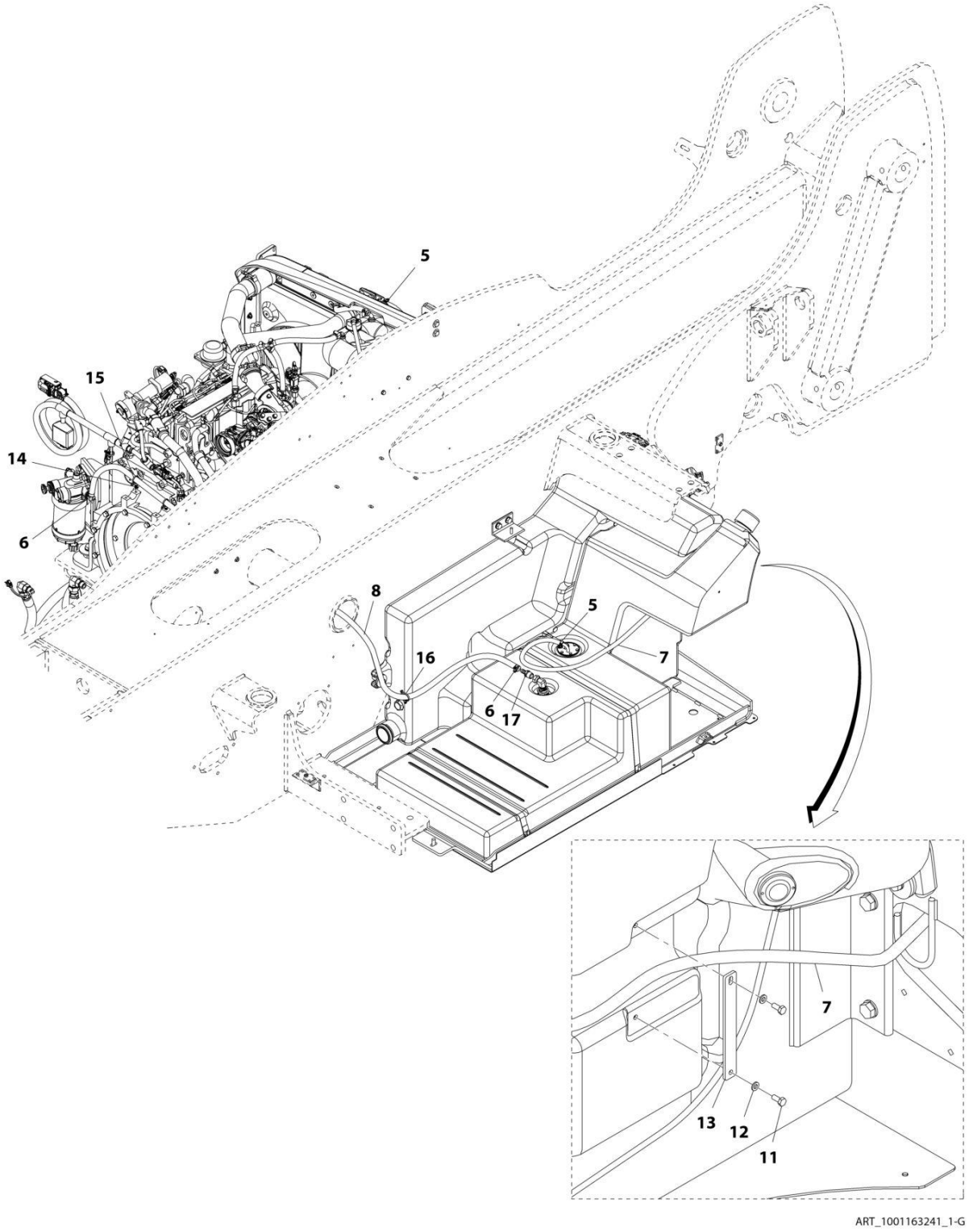
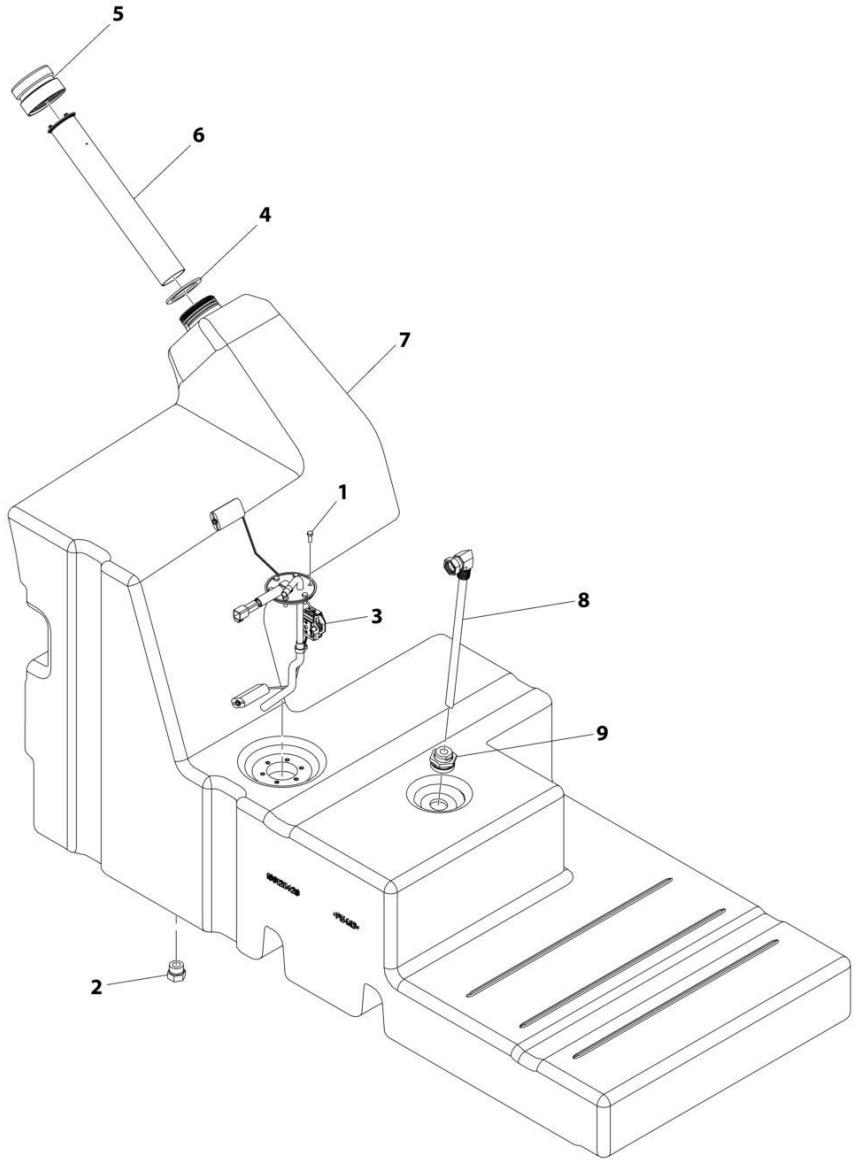


FIGURE 4-39. FUEL TANK ASSEMBLY



ART_1001211432-F

FIGURE 4-39. FUEL TANK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001211432	Ref	Fuel Tank Assembly	F
1	0760507	6	Bolt, M5X14	
2	1001003427	1	Plug	
3	1001235100	1	Gauge, Fuel Level	
4	1001172178	1	Gasket	
5	1001207282	1	Adapter, Tank Cap	
6	1001207557	1	Pipe, Fuel Tank Drop	
7	1001211428	1	Tank, Fuel	
8	1001211429	1	Coupling, ORFS	
9	1001211747	1	Pipe, Fuel Supply	

FIGURE 4-40. FAN INSTALLATION

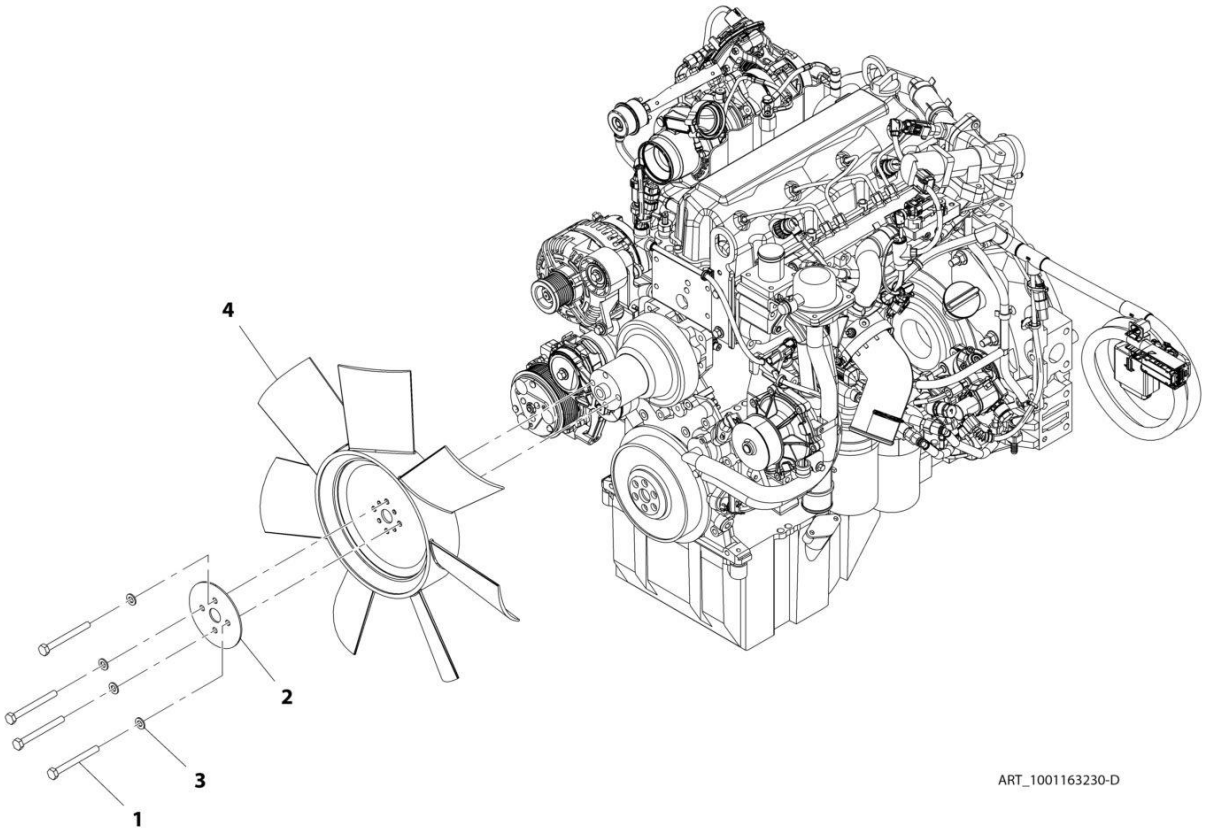


FIGURE 4-40. FAN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163230	Ref	Fan Installation	D
1	0701027	4	Bolt, M10X100	
2	3575947	1	Plate	
3	4812000	4	Washer, M10	
4	1001175269	1	Fan, Cooling	

FIGURE 4-41. FAN GUARD INSTALLATION

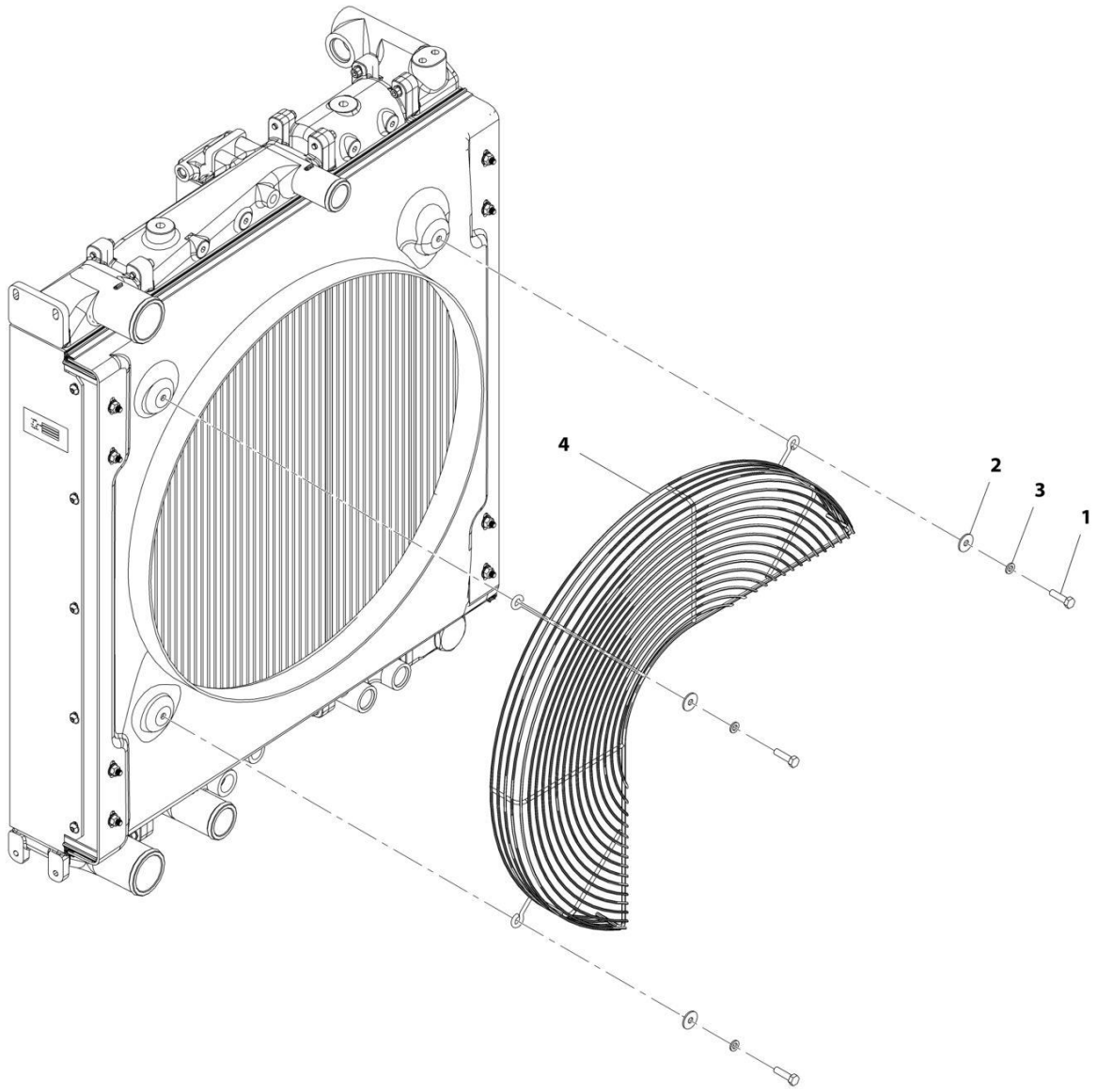


FIGURE 4-41. FAN GUARD INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160420	Ref	Fan Guard Installation	D
1	0700814	3	Bolt, M8X30	
2	4811902	3	Washer, M8	
3	4831900	3	Washer, Lock M8	
4	1001167186	1	Grill	

FIGURE 4-42. HOC LINES INSTALLATION

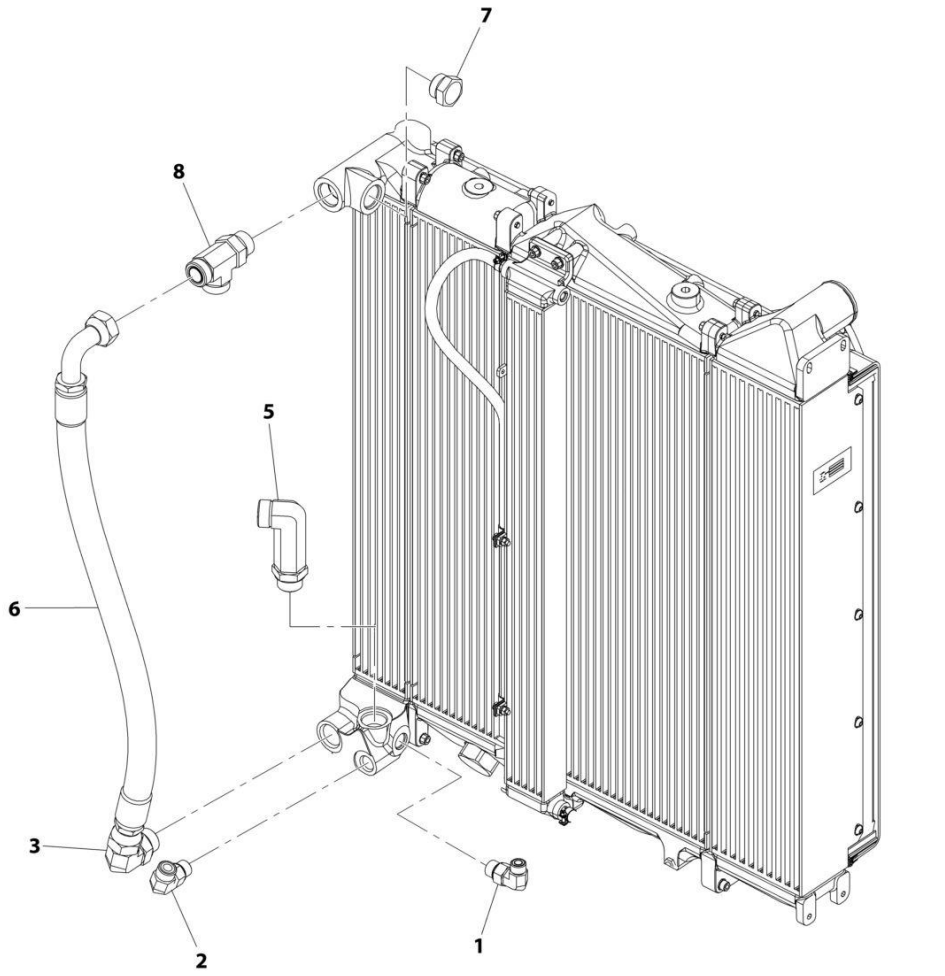


FIGURE 4-42. HOC LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163082	Ref	HOC Lines Installation	D
1	2130810	1	Fitting, ORFS	
2	2131010	1	Fitting, ORFS	
3	2131616	1	Fitting, ORFS	
5	2170216	1	Fitting, ORFS	
6	1001163723	1	Hose	
7	2220242	1	Fitting	
8	2170316	1	Fitting, Tee ORFS	

FIGURE 4-43. MUFFLER INSTALLATION

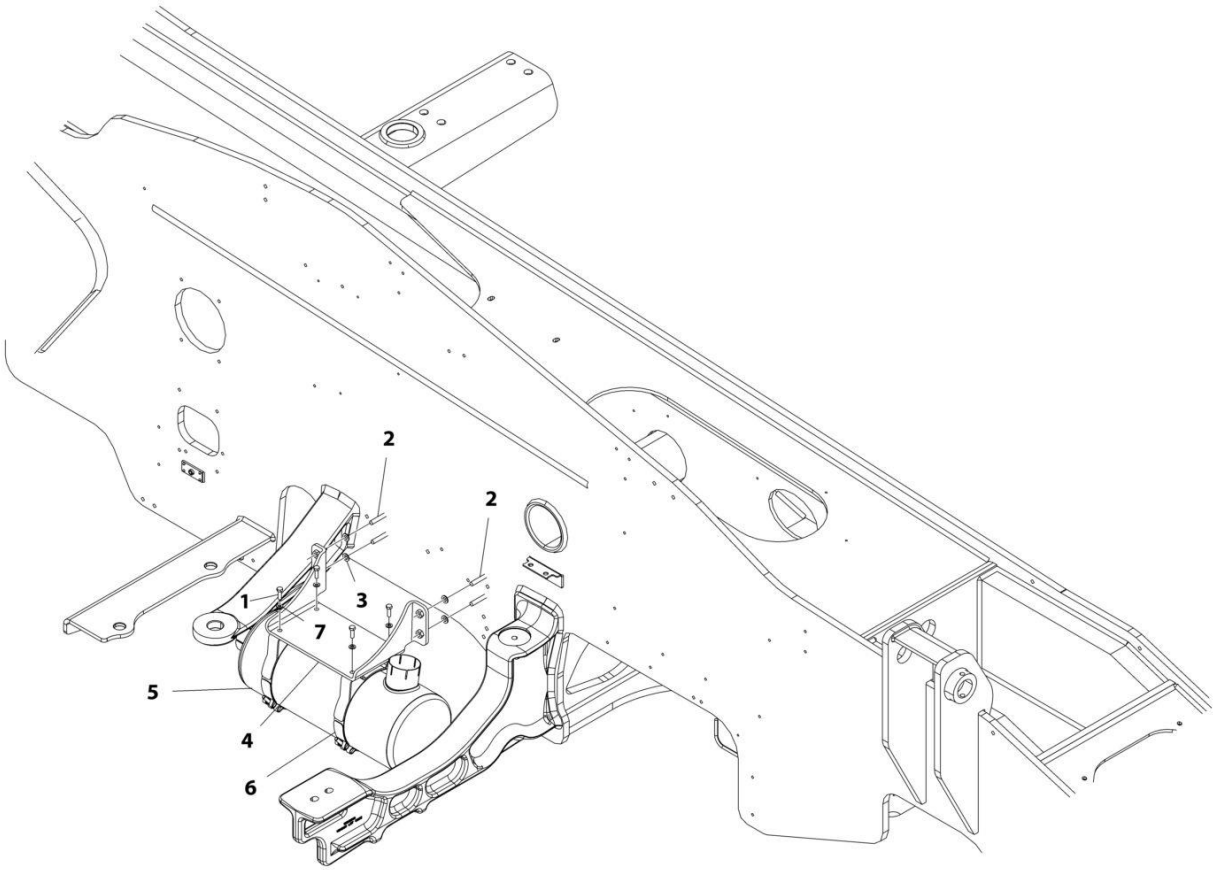


FIGURE 4-43. MUFFLER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179968	Ref	Muffler Installation (LS)	D
1	0760812	4	Bolt, M8X25	
2	0701017	4	Bolt, M10X45	
3	4812000	4	Washer, M10	
4	1001179973	1	Bracket	
5	1001180226	1	Muffler	
6	1001180227	2	Clamp, Muffler	
7	4811900	4	Washer, M8	

FIGURE 4-44. PRIMARY FUEL FILTER INSTALLATION (ULS)

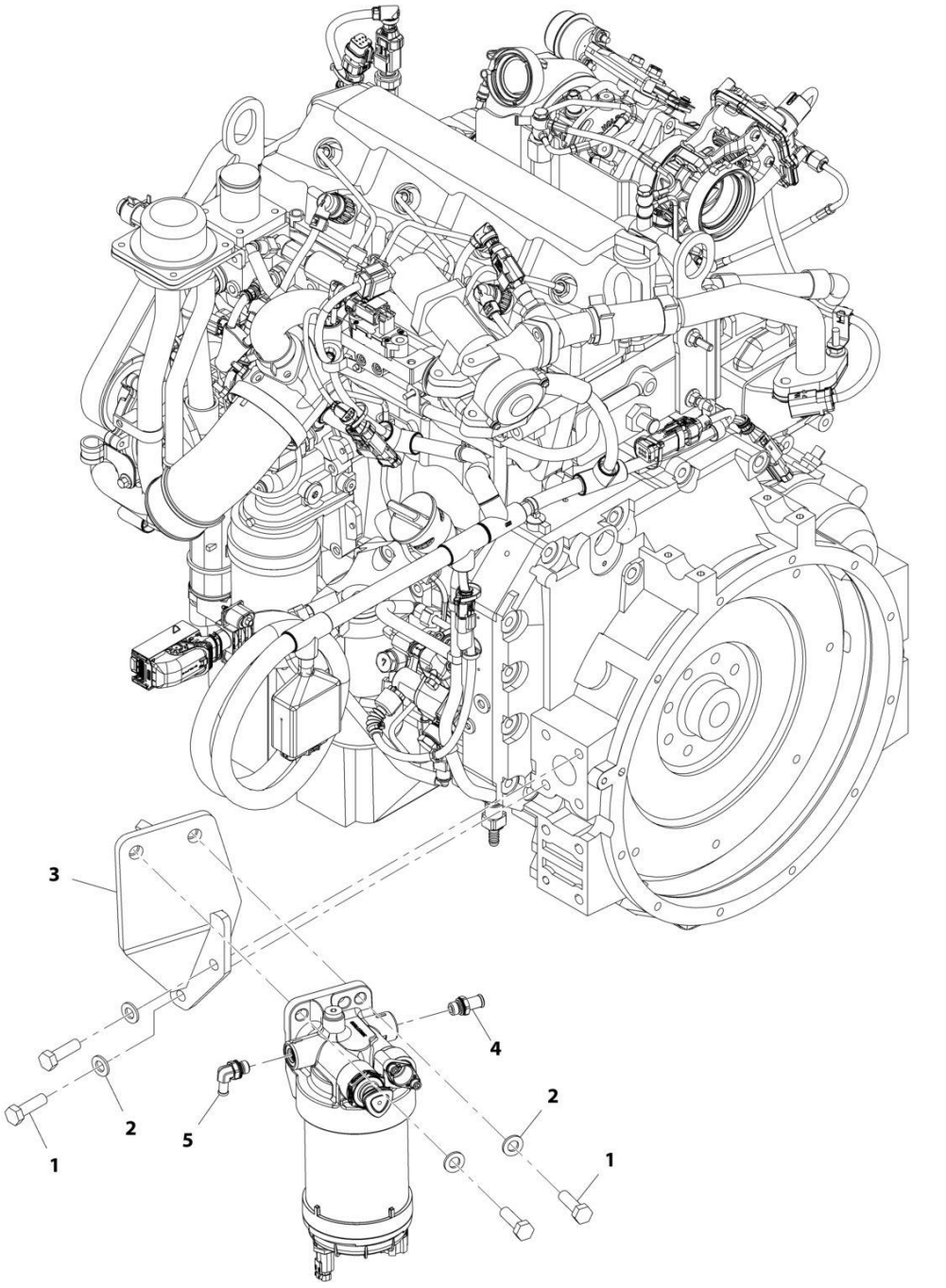


FIGURE 4-44. PRIMARY FUEL FILTER INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163235	Ref	Primary Fuel Filter Installation	F
1	0701216	4	Bolt, M12X40	
2	4812100	4	Washer, M12	
3	1001206019	1	Bracket, Fuel Filter Mount	
4	1001217467	1	Barb, Hose	
5	1001182094	1	Hose	

FIGURE 4-45. PRIMARY FUEL FILTER INSTALLATION (LS)

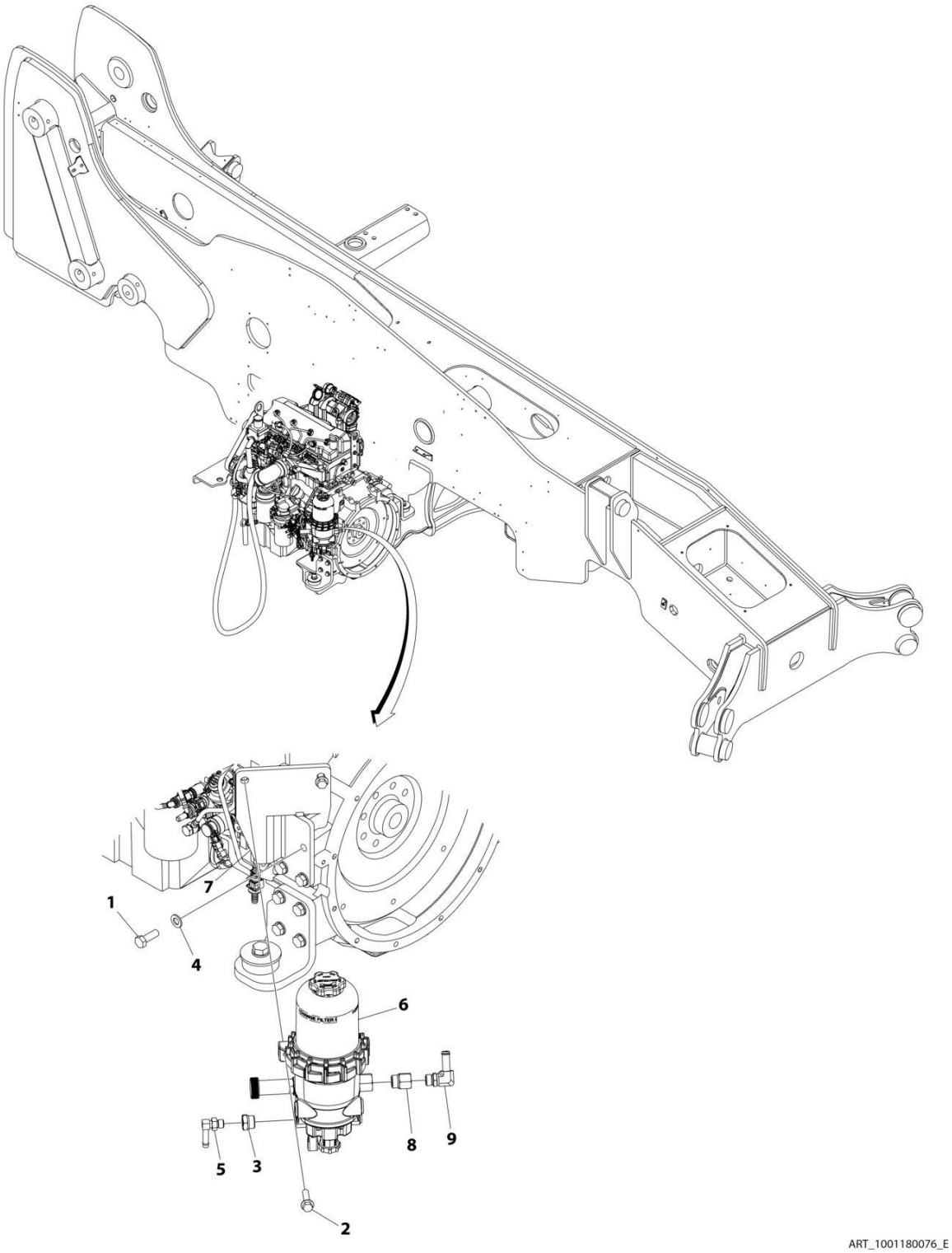


FIGURE 4-45. PRIMARY FUEL FILTER INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180076	Ref	Primary Fuel Filter Installation (LS)	E
1	0701215	3	Bolt, M12X35	
2	0781016	2	Bolt, M10X40	
3	2220218	1	Fitting, Straight ORFS	
4	4812100	3	Washer, M12	
5	8430034	1	Elbow, 90	
6	1001133534	1	Filter, Fuel	
7	1001180078	1	Bracket, Fuel Filter Mount	
8	2220810	1	Fitting, Straight	
9	1001200239	1	Fitting, 90 ORFS	

FIGURE 4-46. RADIATOR COOLING PACKAGE

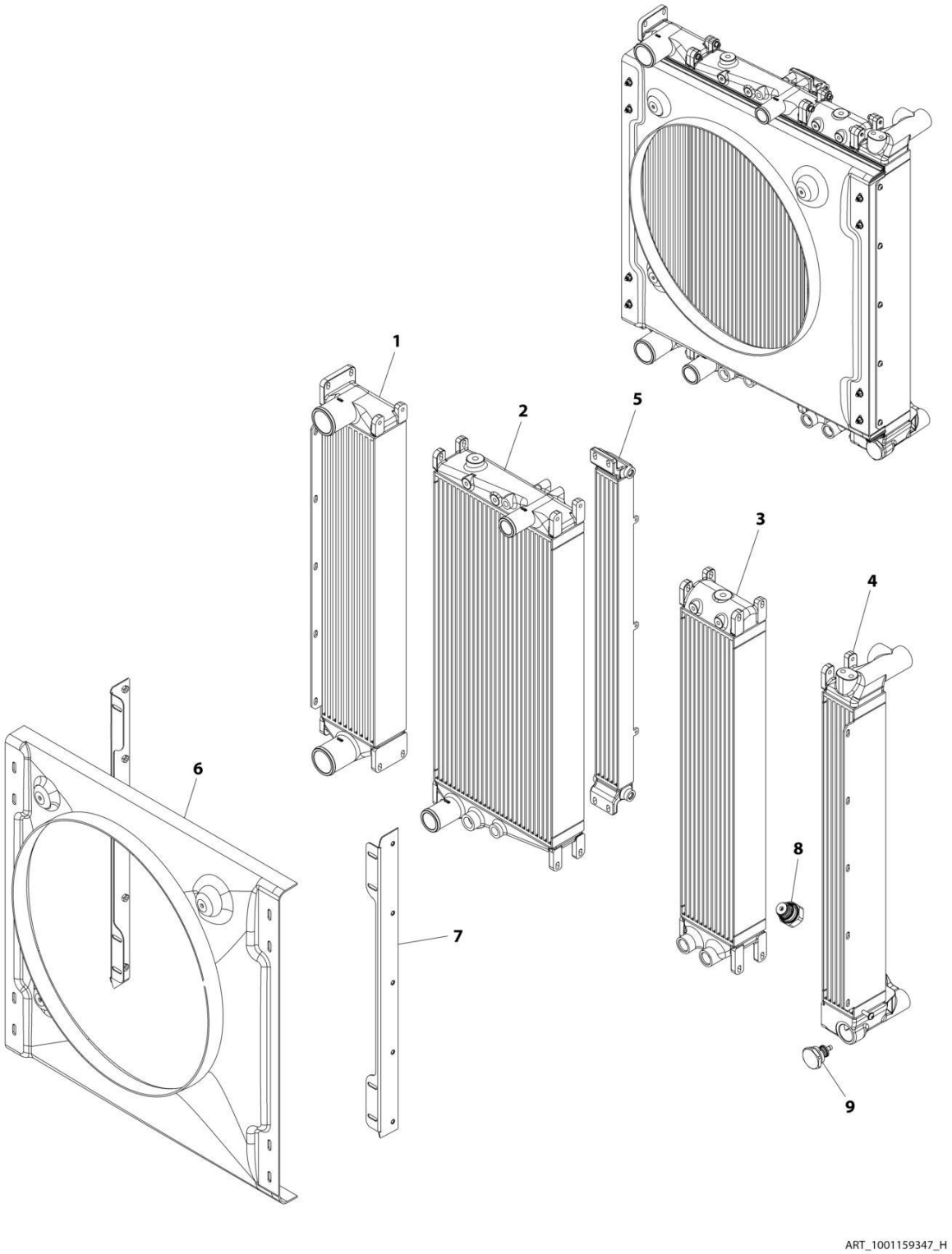


FIGURE 4-46. RADIATOR COOLING PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159347	Ref	RADIATOR COOLING PACKAGE	H
1	70026353	1	Cooler, Air Charge	
2	70026354	1	Radiator	
3	70026355	1	Cooler, Transmission Oil	
4	70026356	1	Cooler, Hydraulic Oil	
5	70026357	1	Cooler, Fuel	
6	70026358	1	Shroud	
7	70026359	2	Bracket, Shroud Mounting	
8	70026082	1	Valve, Bypass	
9	70026360	1	Valve, Bypass	
10	70026081	1	Petcock	

FIGURE 4-47. SURGE TANK INSTALLATION

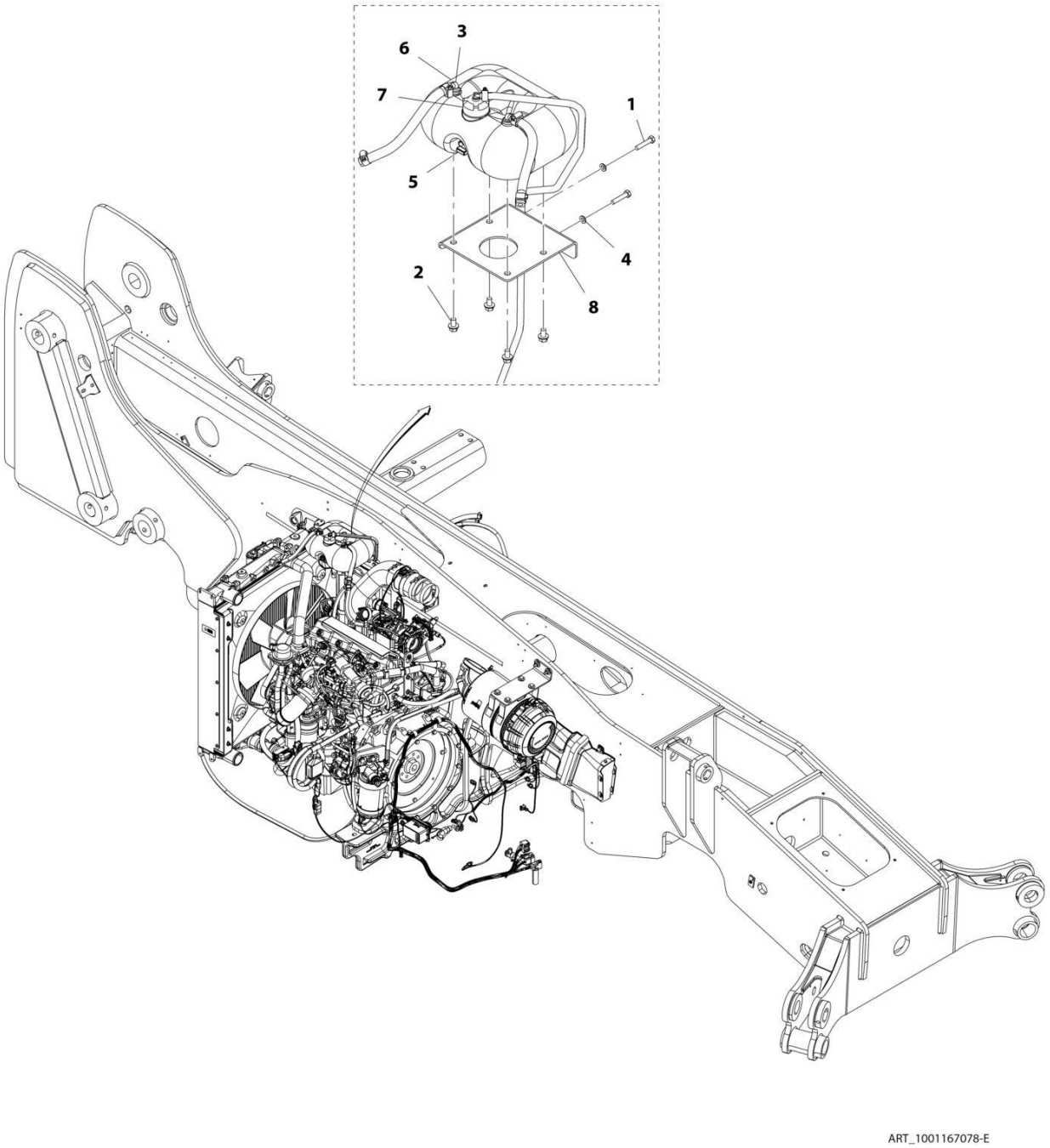


FIGURE 4-47. SURGE TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167078	Ref	Surge Tank Installation	E
1	0700816	2	Bolt, M8X40	
2	0791605	4	Bolt, M3/8-16X5/8	
3	2180467	2	Fitting	
4	4811900	2	Washer, M8	
5	1001121955	1	Sensor, Coolant Level	
6	1001128144	1	Tank, Coolant	
7	1001128341	1	Cap	
8	1001163637	1	Bracket, Coolant Tank	

FIGURE 4-48. TOC LINES INSTALLATION

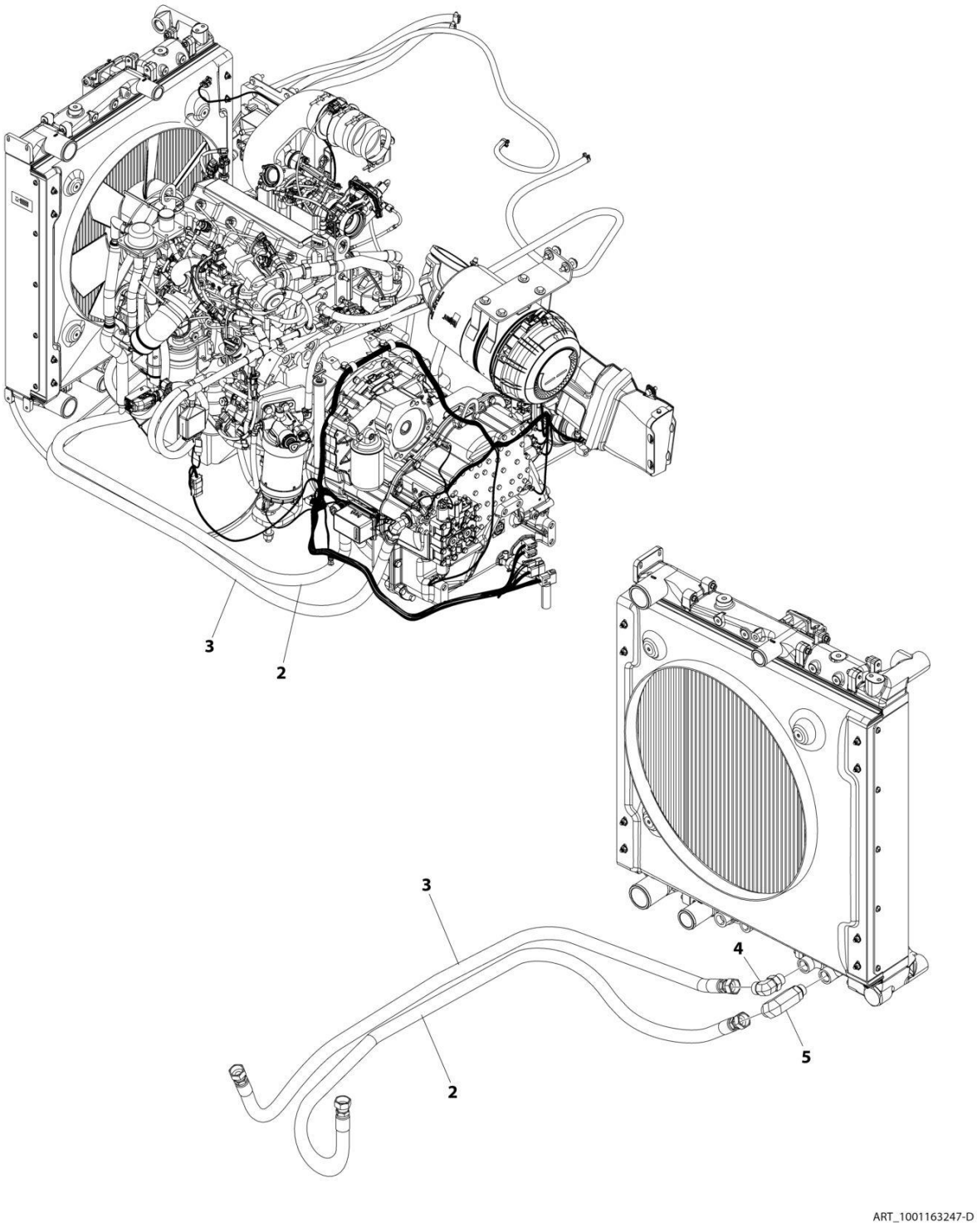


FIGURE 4-48. TOC LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163247	Ref	TOC Lines Installation	D
2	1001169207	1	Hose	
3	1001169393	1	Hose	
4	2131212	1	Fitting, 90 ORFS	
5	2170212	1	Fitting, 90 ORFS	

FIGURE 4-49. UREA PUMP ASSEMBLY

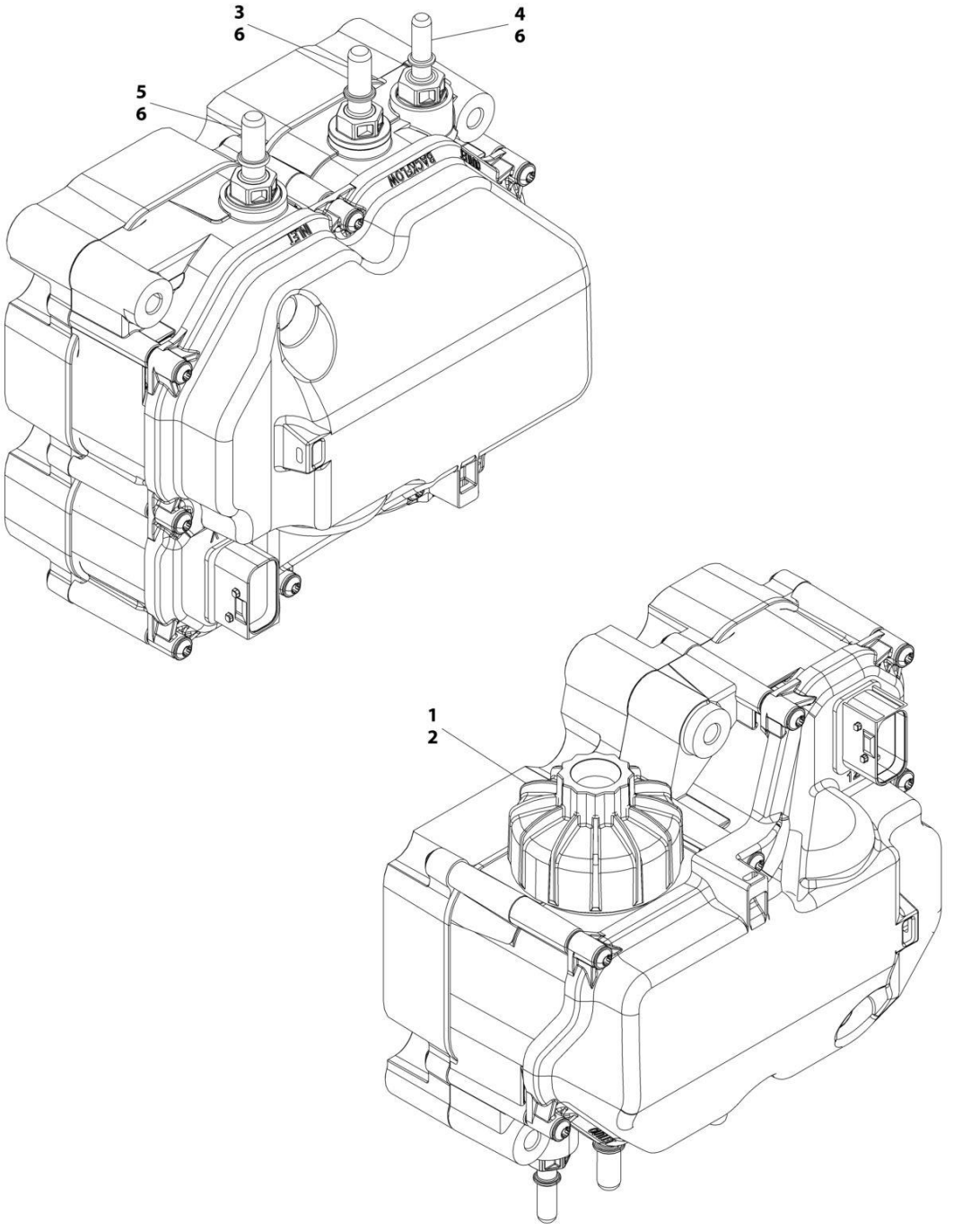


FIGURE 4-49. UREA PUMP ASSEMBLY

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

SECTION 5 - DRIVE TRAIN

FIGURE 5-1. DRIVETRAIN INSTALLATION

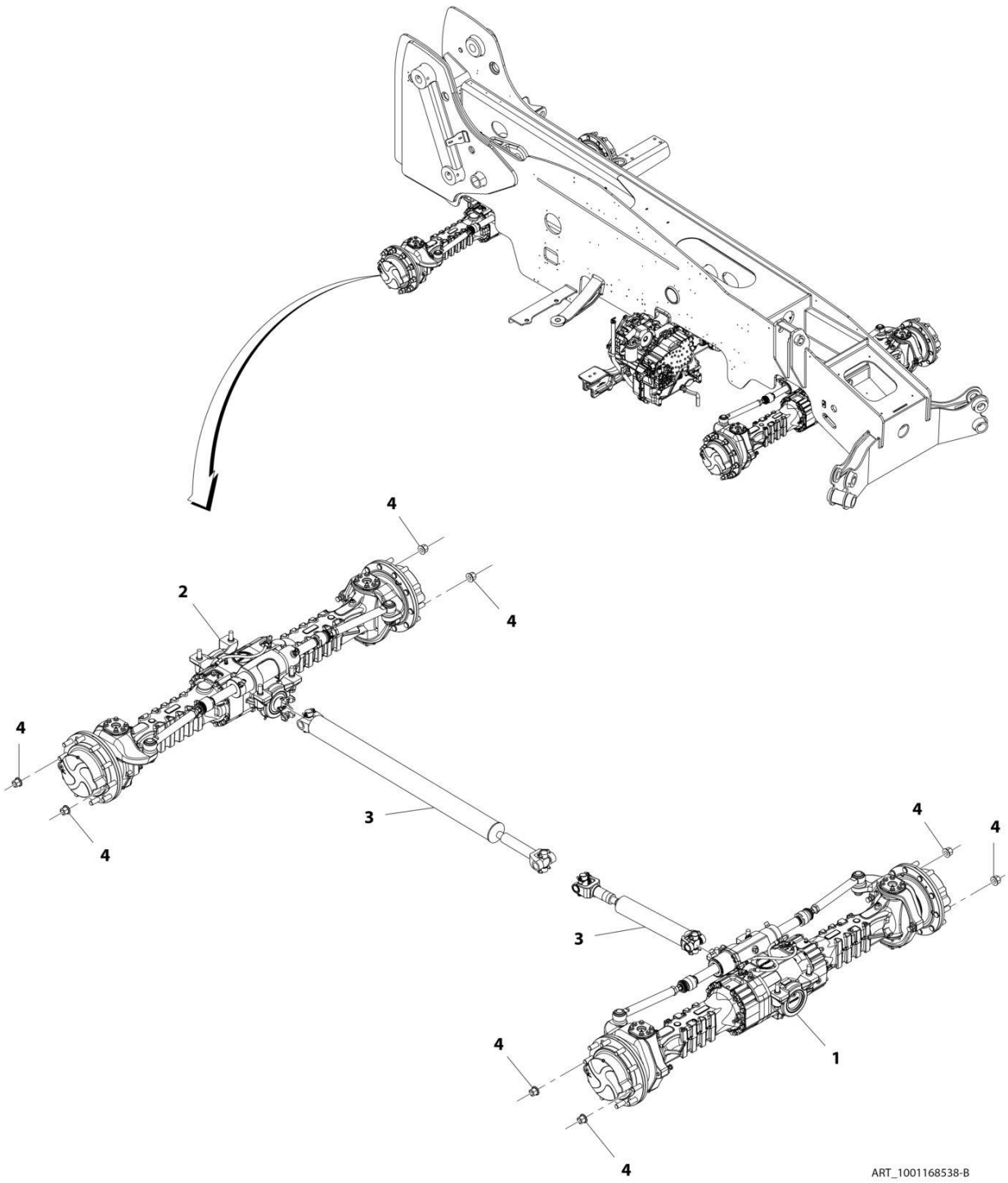


FIGURE 5-1. DRIVETRAIN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168538	Ref	Drivetrain Installation	B
1	1001168530	Ref	Installation, Front Axle (See Separate Breakdown in this Section)	
2	1001168537	Ref	Installation, Rear Axle (See Separate Breakdown in this Section)	
3	1001169348	Ref	Installation, Drive Shafts (See Separate Breakdown in this Section)	
4	91403193	40	Nut, Lug M22X1.5	

FIGURE 5-2. FRONT DRIVE SHAFT INSTALLATION

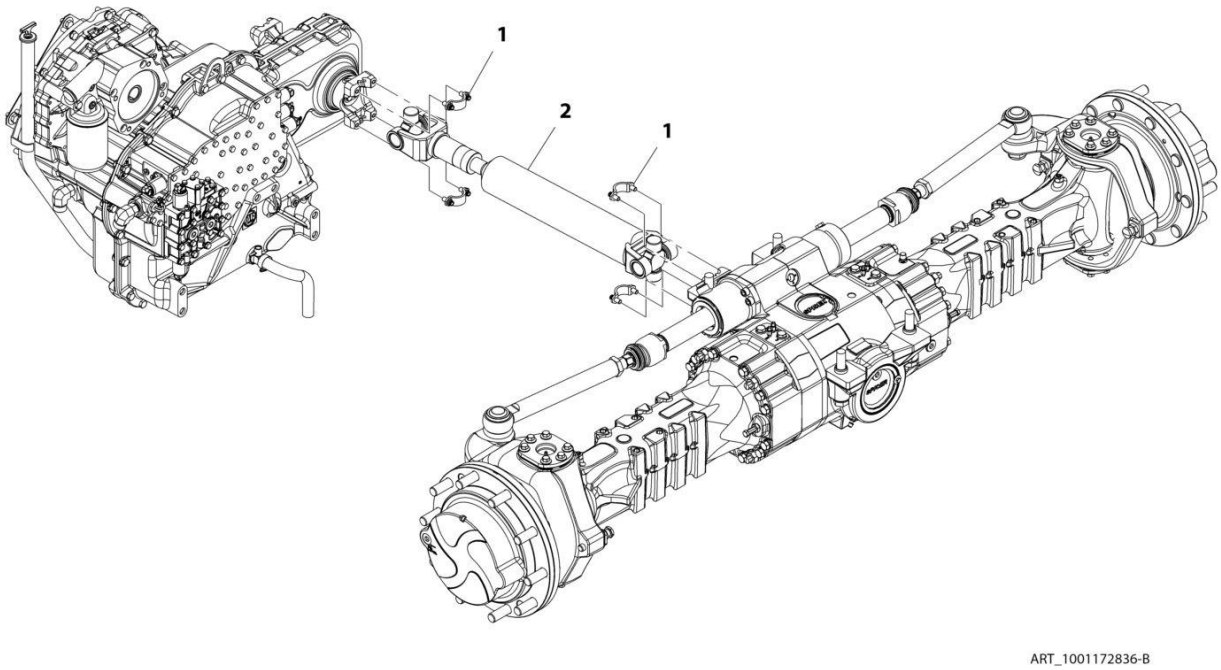


FIGURE 5-2. FRONT DRIVE SHAFT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172836	Ref	Front Drive Shaft Installation	B
1	8880218-OM	2	Kit, Strap	
2	91473151	1	Drive Shaft, Front	

FIGURE 5-3. DRIVE SHAFTS INSTALLATION

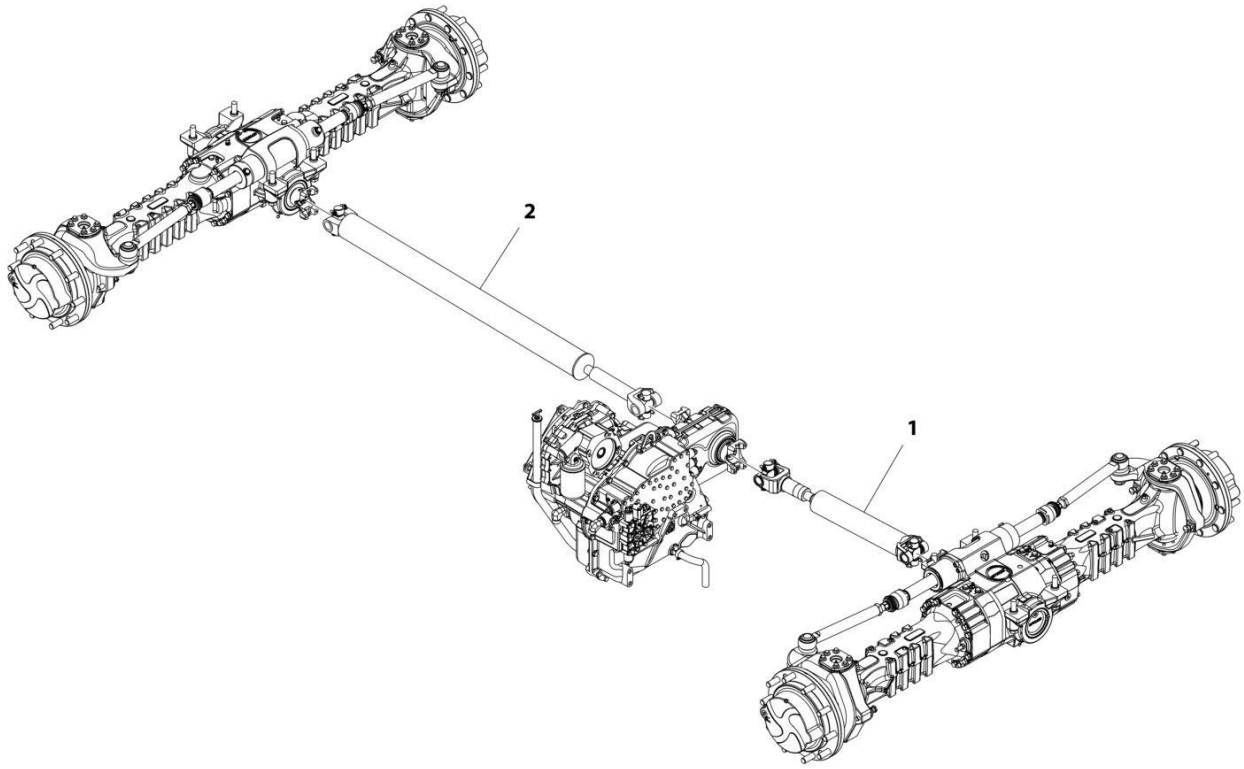


FIGURE 5-3. DRIVE SHAFTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169348	Ref	Drive Shafts Installation	A
1	1001172836	Ref	Installation, Front Drive Shaft (See Separate Breakdown in this Section)	
2	1001169351	Ref	Installation, Rear Drive Shaft (See Separate Breakdown in this Section)	

FIGURE 5-4. FRONT AXLE MOUNTING INSTALLATION

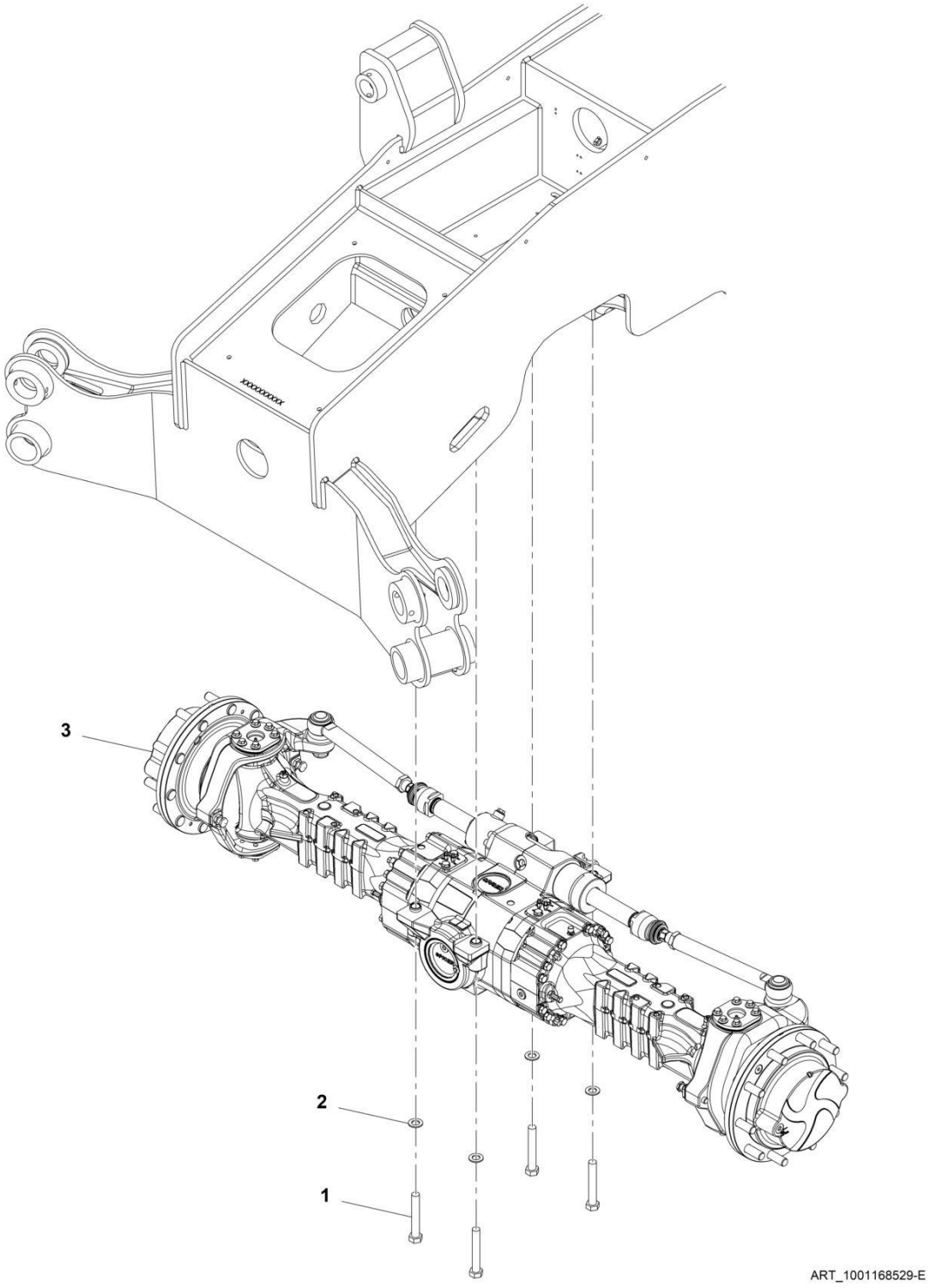


FIGURE 5-4. FRONT AXLE MOUNTING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168529	Ref	Front Axle Mounting Installation	E
1	0712030	4	Bolt, M20X130	
2	8310620	4	Washer, M20	
3	1001165833	1	Axle, Front (See Separate Breakdown in this Section)	

FIGURE 5-5. FRONT AXLE LINES INSTALLATION

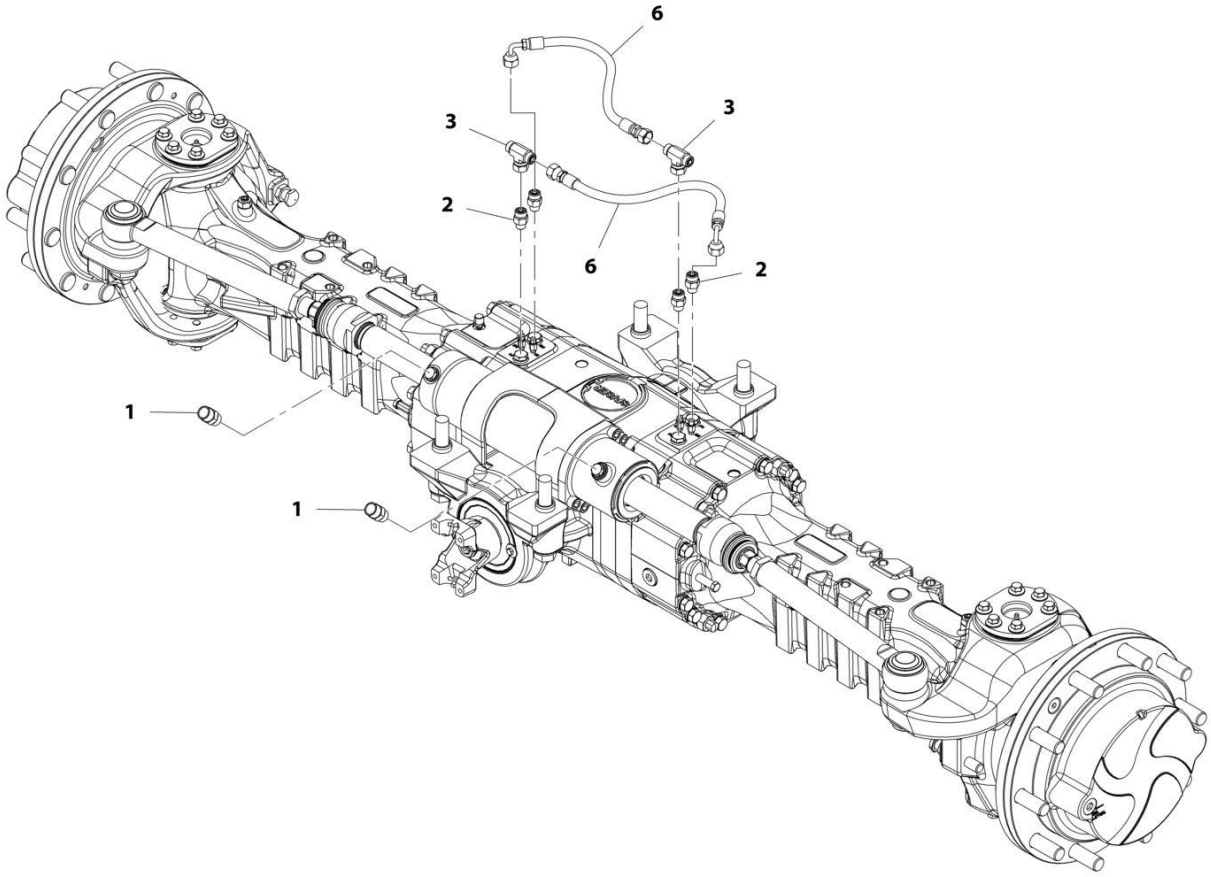


FIGURE 5-5. FRONT AXLE LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171860	Ref	Font Axle Lines Installation	D
1	2110808	2	Fitting, Straight ORFS	
2	2144605	4	Fitting, Straight ORFS	
3	2170806	2	Fitting, Tee ORFS	
6	1001139375	2	Hose	

FIGURE 5-6. FRONT AXLE INSTALLATION

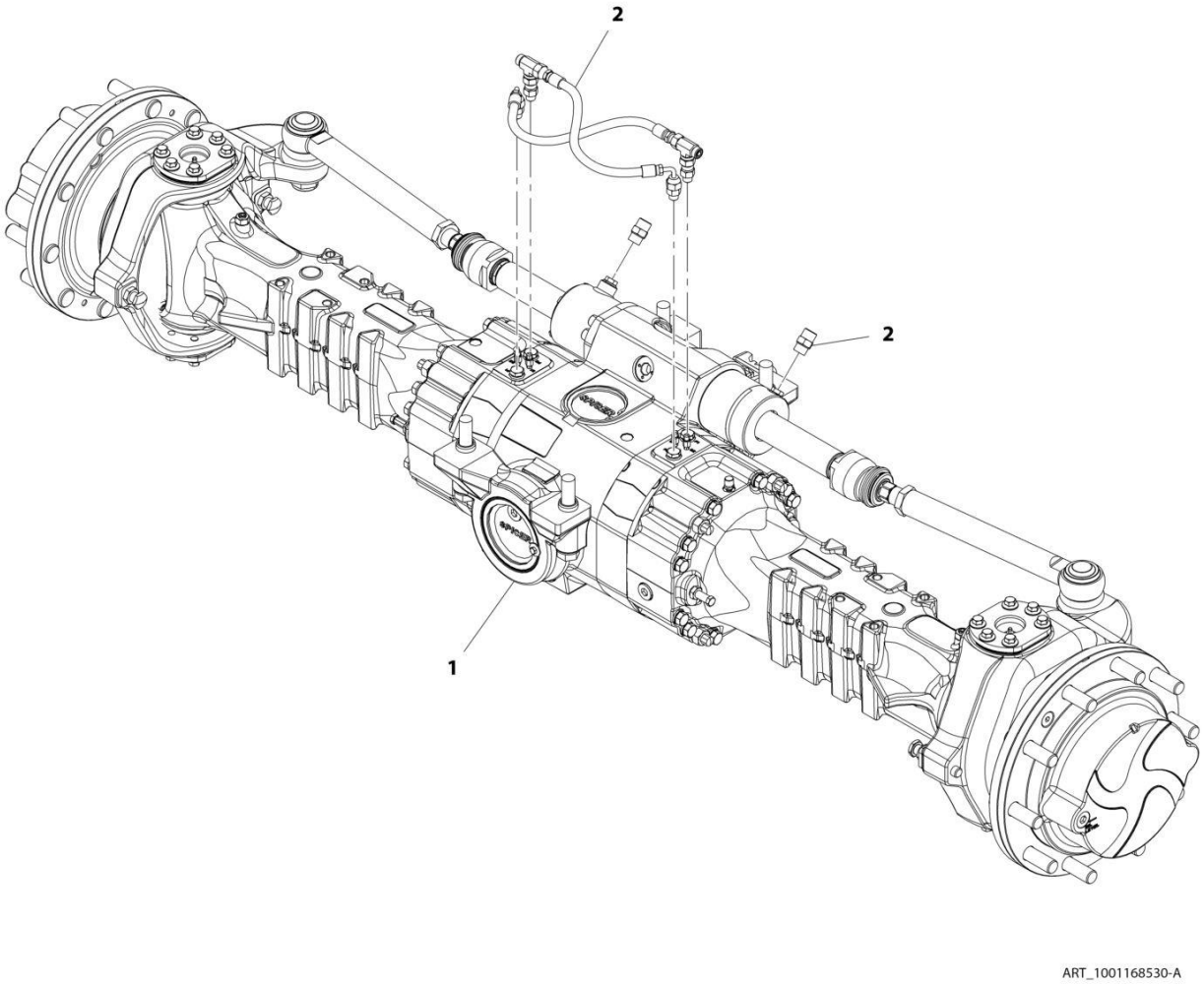


FIGURE 5-6. FRONT AXLE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168530	Ref	Front Axle Installation	A
1	1001168529	Ref	Installation, Front Axle Mounting (See Separate Breakdown in this Section)	
2	1001171860	Ref	Installation, Front Axle Lines (See Separate Breakdown in this Section)	

FIGURE 5-7. FRONT AXLE

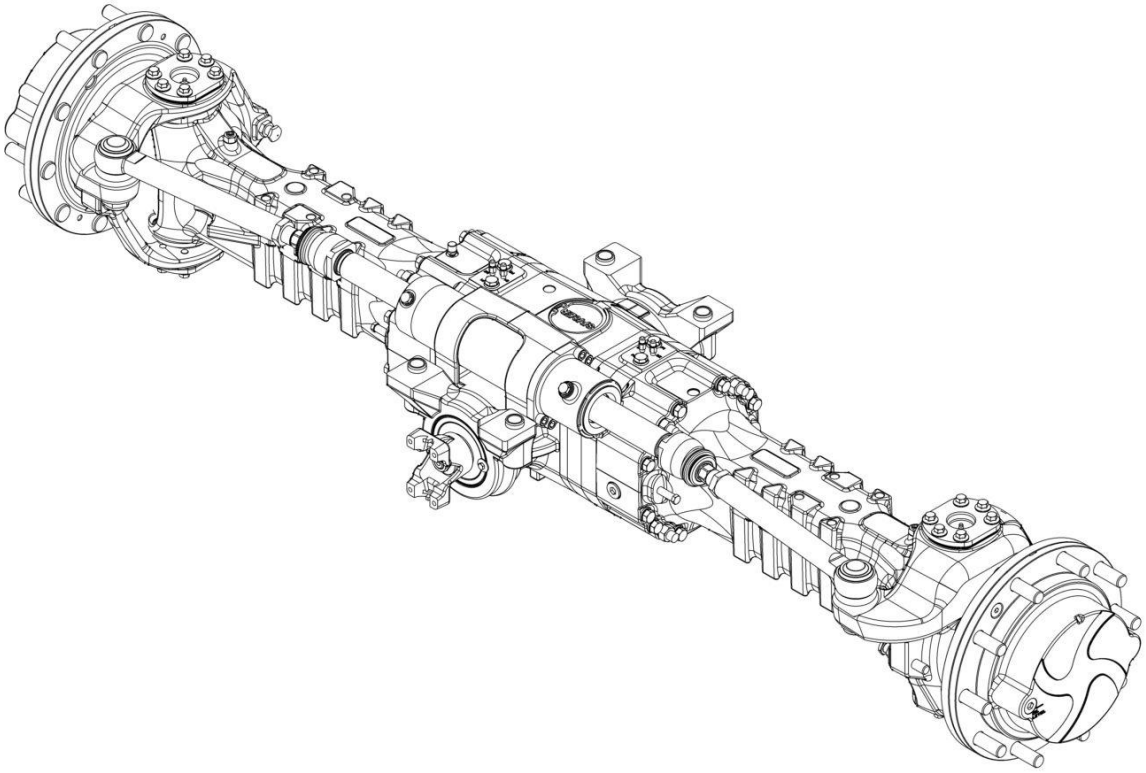


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FIGURE 5-7. FRONT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	Front Axle (642,742)	H
		Ref	Front Axle, Central Housing (See Separate Breakdown in this Section)	
		Ref	Front Axle, Differential (See Separate Breakdown in this Section)	
		Ref	Front Axle, Hub Reduction (See Separate Breakdown in this Section)	
		Ref	Front Axle, Brakes (See Separate Breakdown in this Section)	
		Ref	Front Axle, Steering (See Separate Breakdown in this Section)	
		Ref	Front Axle, Trunion (See Separate Breakdown in this Section)	

FIGURE 5-8. FRONT AXLE, CENTRAL HOUSING

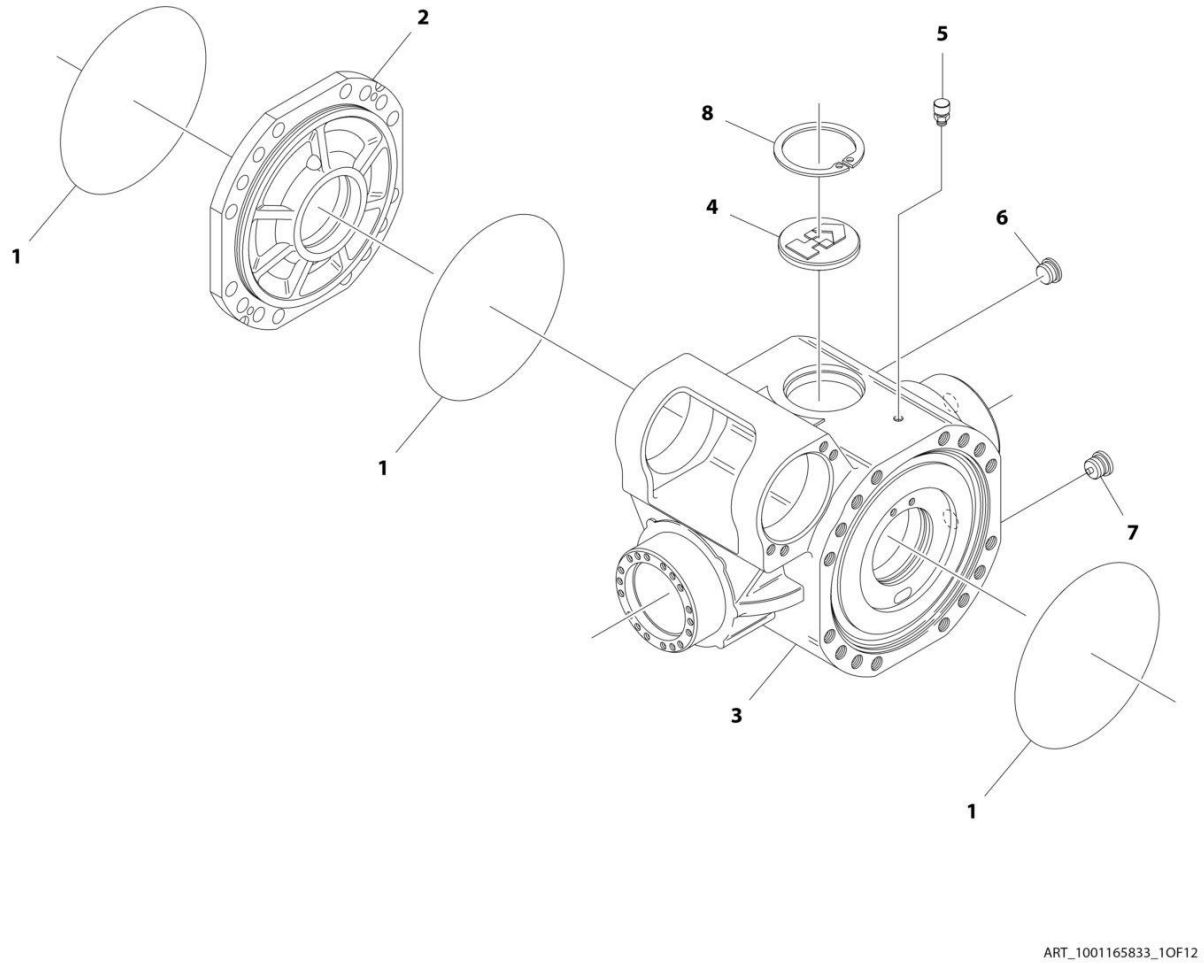

FIGURE 5-8. FRONT AXLE, CENTRAL HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, CENTRAL HOUSING	H
1	91474507	3	O-Ring	
2	70024872	1	Cover	
3	70026749	1	Housing	
4	91514098	1	Plug	
5	91474512	1	Vent	
6	91514188	1	Plug	
7	91474513	1	Plug, Magnet	
8	80204005	1	Circlip	

FIGURE 5-9. FRONT AXLE, DIFFERENTIAL

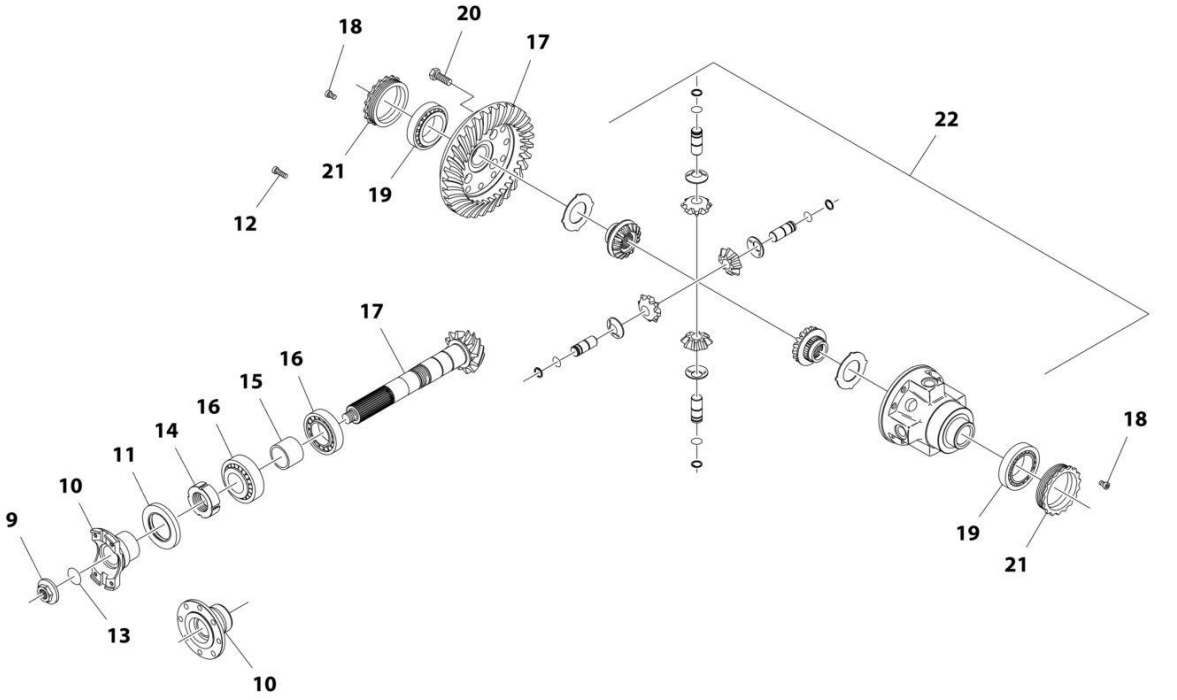

FIGURE 5-9. FRONT AXLE, DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, DIFFERENTIAL	H
9	70026631	1	Nut	
10	70022797	1	Flange	
11	70024522	1	Seal	
12	91474591	4	Bolt	
13	91474529	1	O-Ring	
14	91474533	1	Nut, Ring	
15	91474539	1	Spacer	
16	3968141	2	Bearing, Taper Roller	
17	8007749	1	Bevel Gear Set	
18	91514134	2	Bolt	
19	70026031	2	Bearing, Taper Roller	
20	91514123	12	Bolt	
21	91474547	2	Nut, Ring	
22	7028710	1	Differential (See Separate Breakdown in this Section)	

FIGURE 5-10. FRONT AXLE, HUB REDUCTION

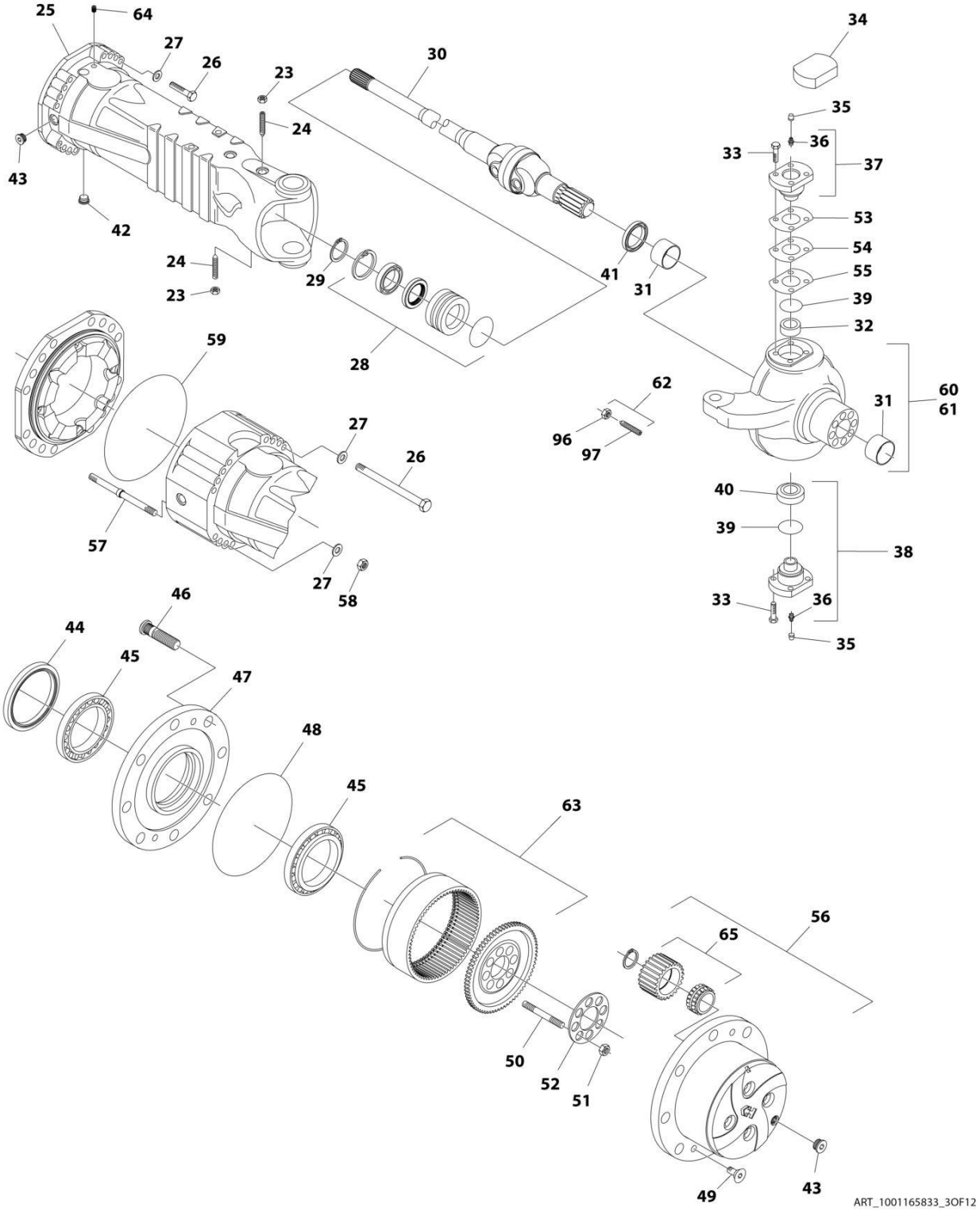

FIGURE 5-10. FRONT AXLE, HUB REDUCTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, HUB REDUCTION	H
23	91514082	2	Nut	
24	91514081	2	Bolt	
25	70025011	2	Case, Axle	
26	70025012	24	Bolt	
27	91514084	8	Washer	
28	91514149	2	Bushing, Reduction (See Separate Breakdown in this Section)	
29	80204071	2	Circlip	
30	70026624	2	Joint, Double Universal	
31	91514111	2	Bushing, Thrust	
32	7028714	2	Bushing	
33	70025562	24	Bolt	
34	91474524	2	Cover	
35	80204117	2	Plug	
36	91514099	4	Fitting, Grease	
37	91514112	2	Pin, Pivot	
38	7028715	2	Pin, Pivot	
39	7028716	4	Seal, Dust	
40	91514095	2	Bearing	
41	70026238	2	Seal	
42	91474513	2	Plug	
43	91514188	4	Plug	
44	7028721	2	Seal	
45	91474576	4	Bearing	
46	91514183	20	Stud, Wheel	
47	7029737	2	Hub, Wheel	
48	91474507	2	O-Ring	
49	91514189	4	Bolt	
50	91474583	16	Stud	
51	91474584	16	Nut	
52	70026622	2	Plate, Locking	
53	91514113	2	Shim	
54	91514114	2	Shim	
55	91514115	2	Shim	
56	7029431	2	Planet Gear Carrier (See Separate Breakdown in this Section)	
57	70025014	8	Stud	
58	91514083	8	Nut	
59	91514181	2	O-Ring	
60	70026626	1	Case, Steering	
61	70026627	1	Case, Steering	
62	7028733	4	Bolt, Steering Adjust (includes items 45 & 46)	
63	70026625	2	Kit, Ring Gear Support (See Separate Breakdown in this Section)	
64	80204012	2	Plug	
65	70023900	8	Kit, Planet Gear	
96	91514117	4	Bolt	
97	80204065	4	Nut	

FIGURE 5-11. FRONT AXLE, BRAKES

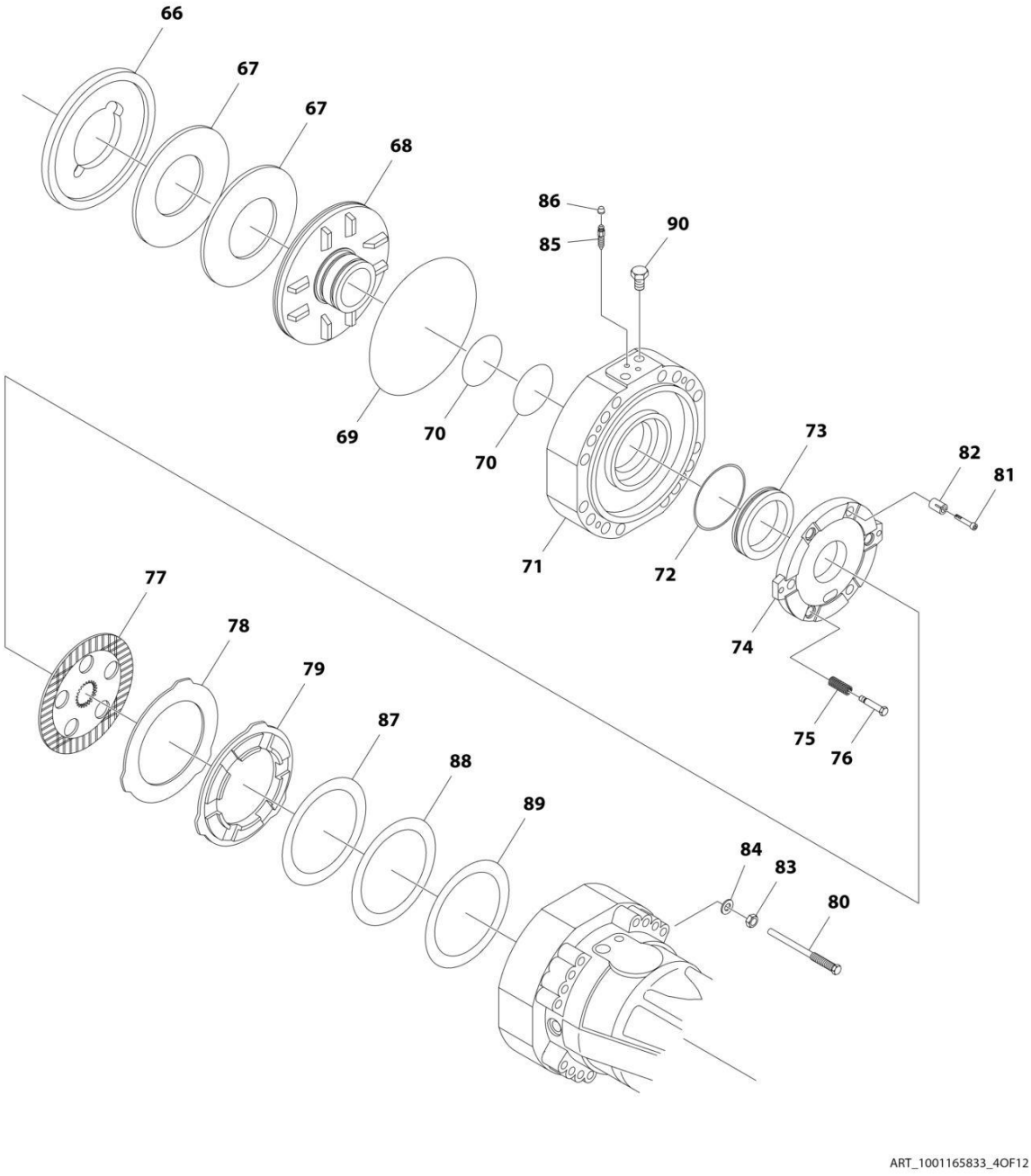

FIGURE 5-11. FRONT AXLE, BRAKES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, BRAKES	H
66	7028734	1	Spacer	
67	91474559	4	Spring	
68	91474560	2	Piston	
69	91474561	2	O-Ring	
70	70026262	4	Seal	
71	7028735	2	Cover	
72	70026623	2	Seal	
73	91474564	2	Piston	
74	91474565	2	Disc, Intermediate Brake	
75	91514159	6	Spring	
76	70024210	6	Bolt	
77	91474568	8	Disc	
78	70025823	8	Disc, Intermediate Brake	
79	91474570	2	Spacer	
80	70024213	4	Bolt, M12X122.5	
81	7029788	6	Bolt	
82	91514165	6	Spring	
83	80204060	4	Nut	
84	80204108	4	Washer, Lock	
85	80204281	4	Bolt	
86	80204117	4	Plug	
87	91474571	2	Shim	
88	91474572	2	Shim	
89	91474573	2	Shim	
90	91514154	4	Bolt	

FIGURE 5-12. FRONT AXLE, STEERING

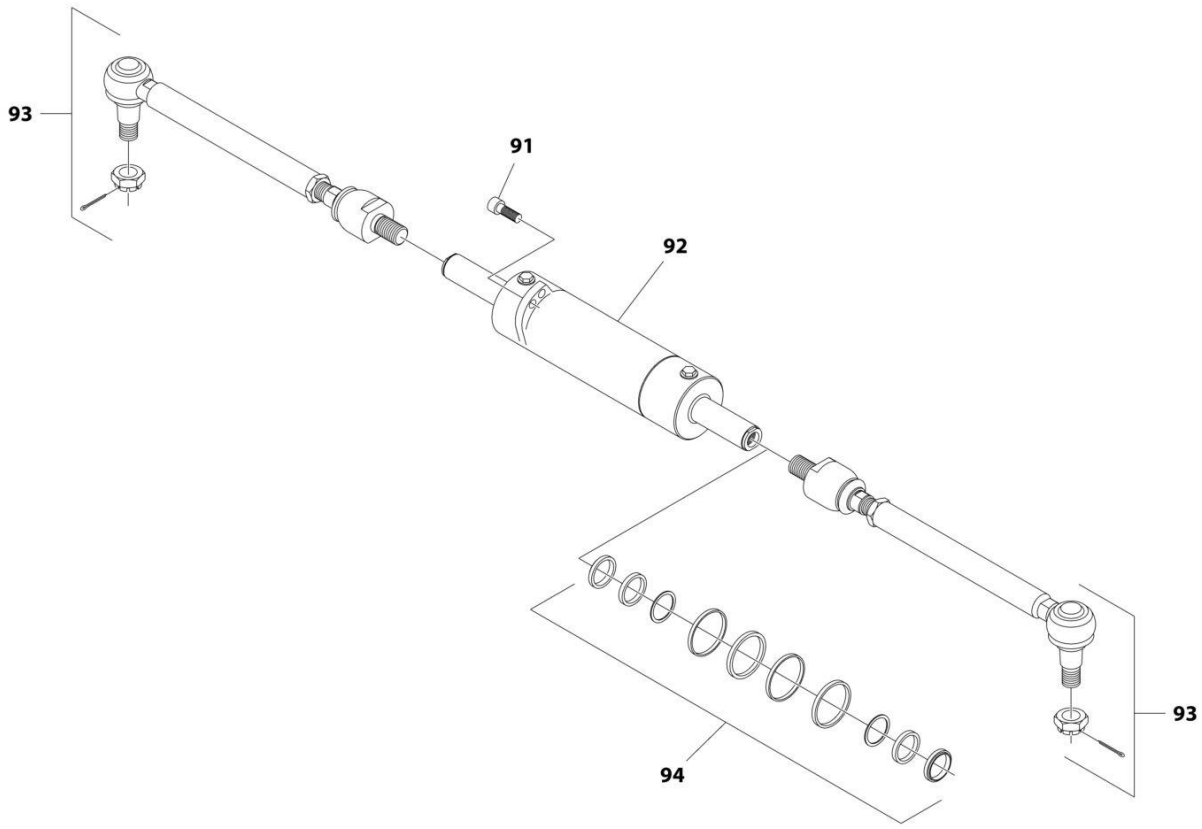

FIGURE 5-12. FRONT AXLE, STEERING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, STEERING	H
91	91474522	4	Bolt	
92	7029528	1	Cylinder	
93	70026799	2	Rod, Tie	
94	7029529	1	Kit, Seal	

FIGURE 5-13. FRONT AXLE, TRUNION

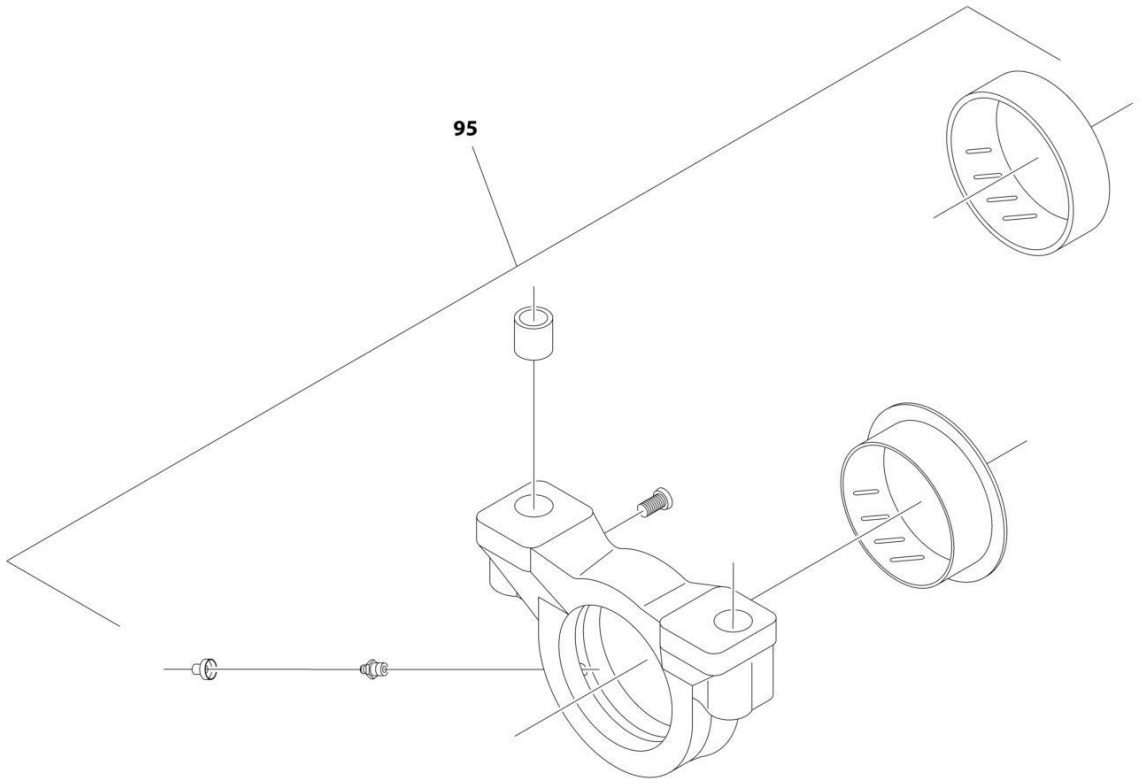

FIGURE 5-13. FRONT AXLE, TRUNION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, TRUNION	H
95	70026630	2	Trunion (See Separate Breakdown in this Section)	

FIGURE 5-14. FRONT AXLE, DIFFERENTIAL

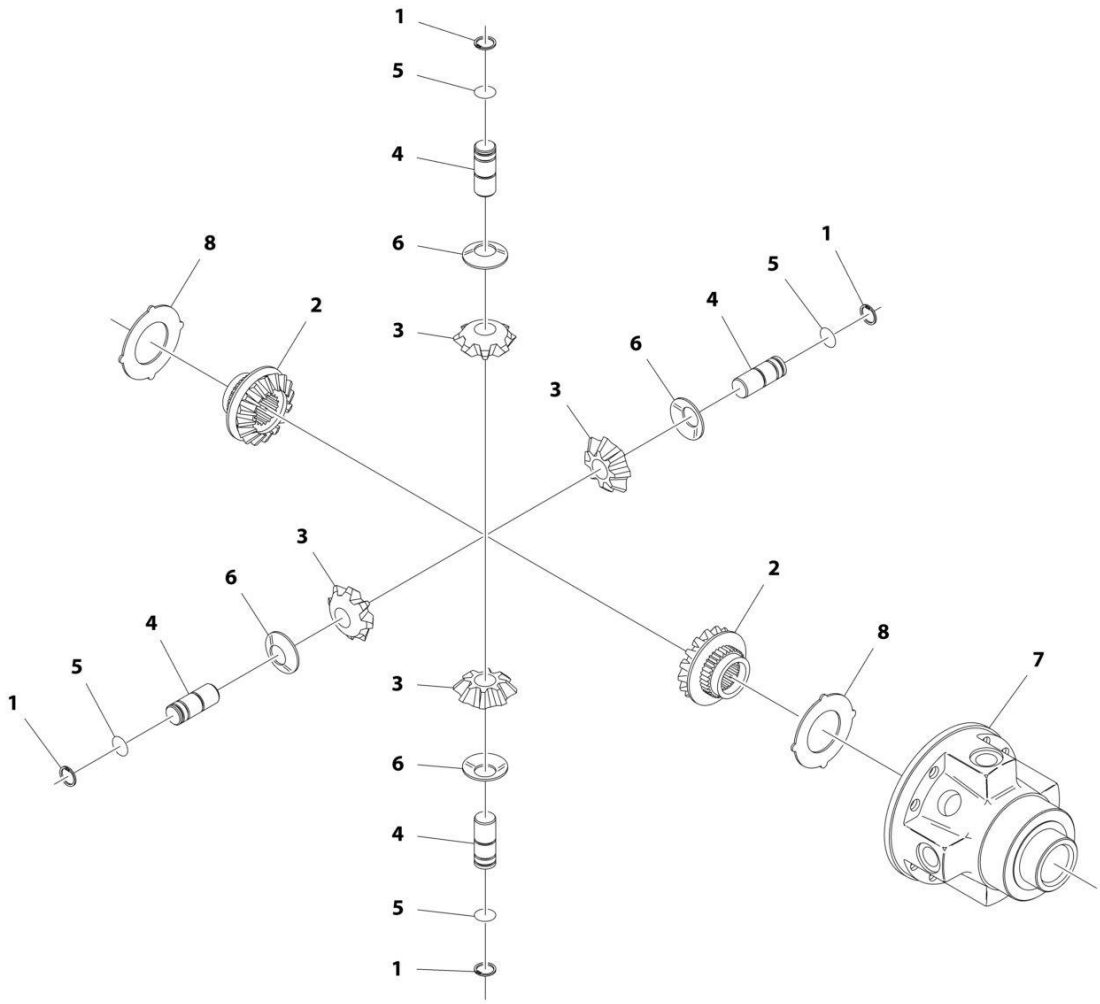

FIGURE 5-14. FRONT AXLE, DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, DIFFERENTIAL	H
	7028710	Ref	Differential	
1	91474550	4	Circlip	
2	91474549	2	Gear, Differential Side	
3	7029129	4	Pinion, Differential	
4	7029131	4	Pin	
5	91474551	4	Circlip	
6	91474553	4	Washer, Friction	
7	8007751	1	Carrier, Differential	
8	8007755	1	Disc	

FIGURE 5-15. FRONT AXLE, REDUCTION BUSHING

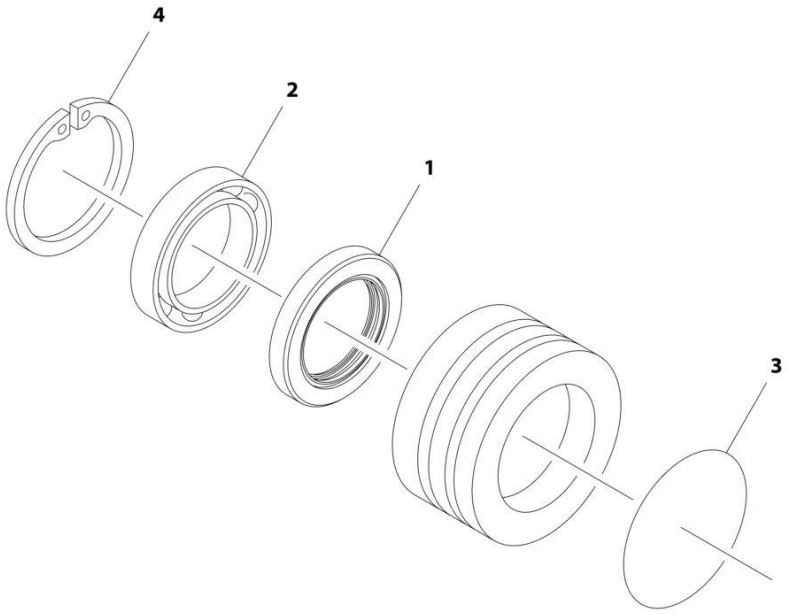

FIGURE 5-15. FRONT AXLE, REDUCTION BUSHING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, REDUCTION BUSHING	H
	91514149	Ref	Reduction Bushing	
1	91514147	1	Seal	
2	91514146	1	Bearing, Ball	
3	91514148	1	O-Ring	
4	80204005	1	Circlip	

FIGURE 5-16. FRONT AXLE, PLANET GEAR CARRIER

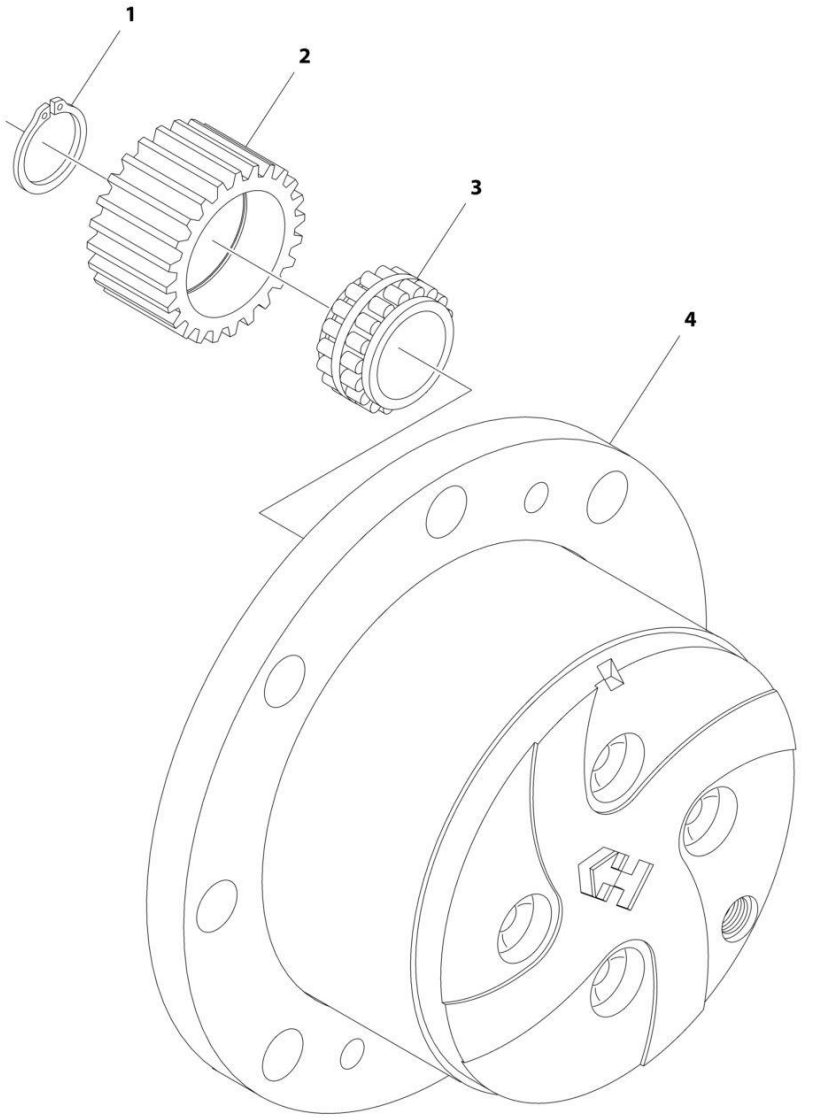

FIGURE 5-16. FRONT AXLE, PLANET GEAR CARRIER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, PLANET GEAR CARRIER	H
	7029431	Ref	Planet Gear Carrier	
1	91474585	2	Circlip	
2	91474586	4	Gear, Planet	
3	91474587	4	Bearing	
4	7029286	1	Carrier, Planet Gear	

FIGURE 5-17. FRONT AXLE, RING GEAR SUPPORT

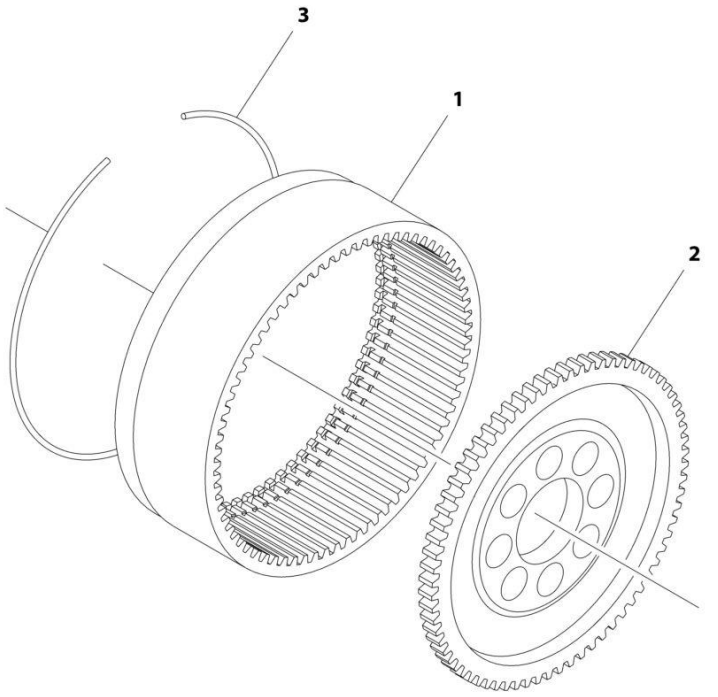

FIGURE 5-17. FRONT AXLE, RING GEAR SUPPORT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, RING GEAR SUPPORT	H
	70026625	Ref	Ring Gear Support	
1	91474580	1	Gear, Ring	
2	70026798	1	Support, Ring Gear	
3	91474579	1	Circlip	

FIGURE 5-18. FRONT AXLE, PLANET GEAR

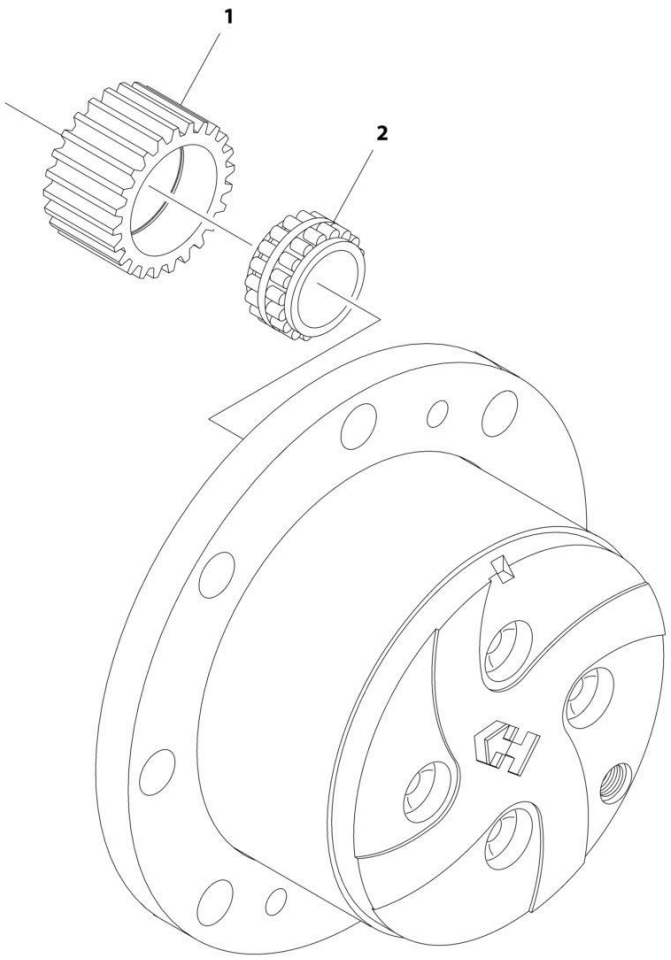

FIGURE 5-18. FRONT AXLE, PLANET GEAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, PLANET GEAR	H
	70023900	Ref	Planet Gear	
1	91474586	4	Gear, Planet	
2	91474587	4	Bearing	

FIGURE 5-19. FRONT AXLE, TRUNION KIT

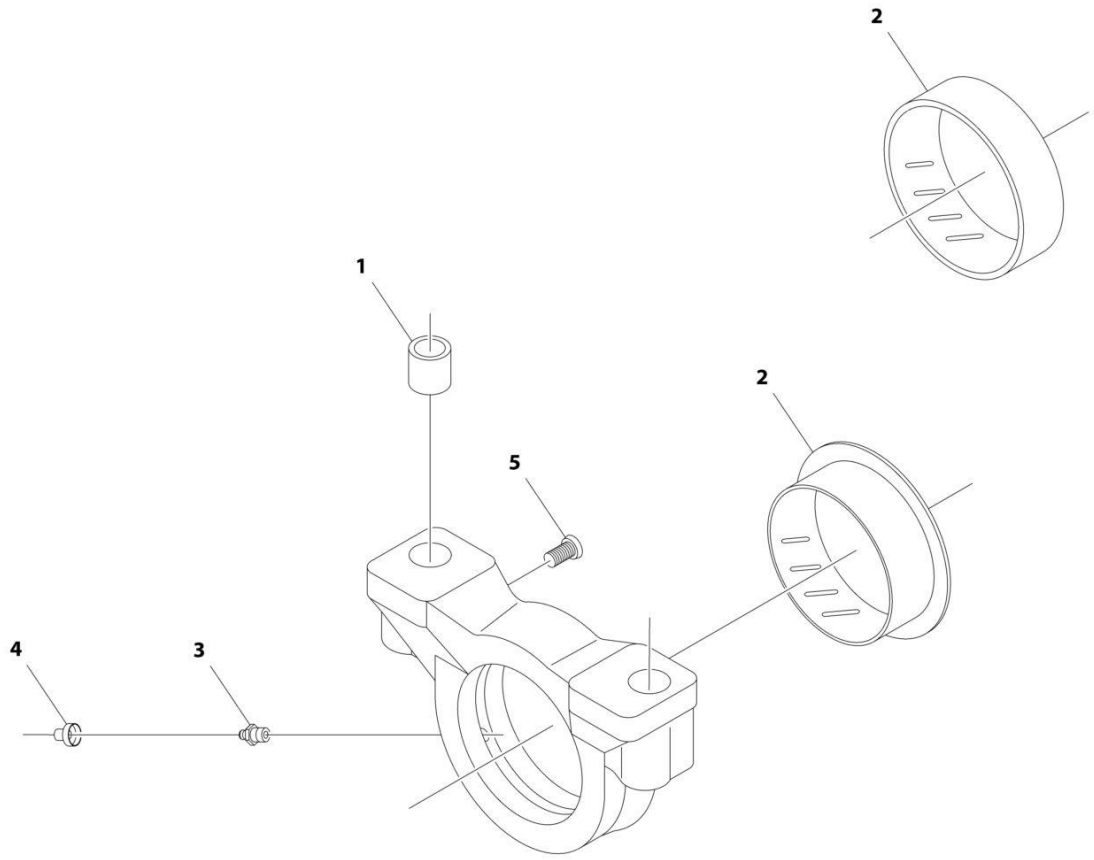

FIGURE 5-19. FRONT AXLE, TRUNION KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165833	Ref	FRONT AXLE, TRUNION KIT	H
	70026630	Ref	Trunion Kit	
1	91474516	2	Bushing, Reduction	
2	91474515	1	Bushing, Thrust	
3	91514099	1	Fitting, Grease	
4	80204117	1	Plug	
5	70025884	1	Bolt	

FIGURE 5-20. REAR DRIVE SHAFT INSTALLATION

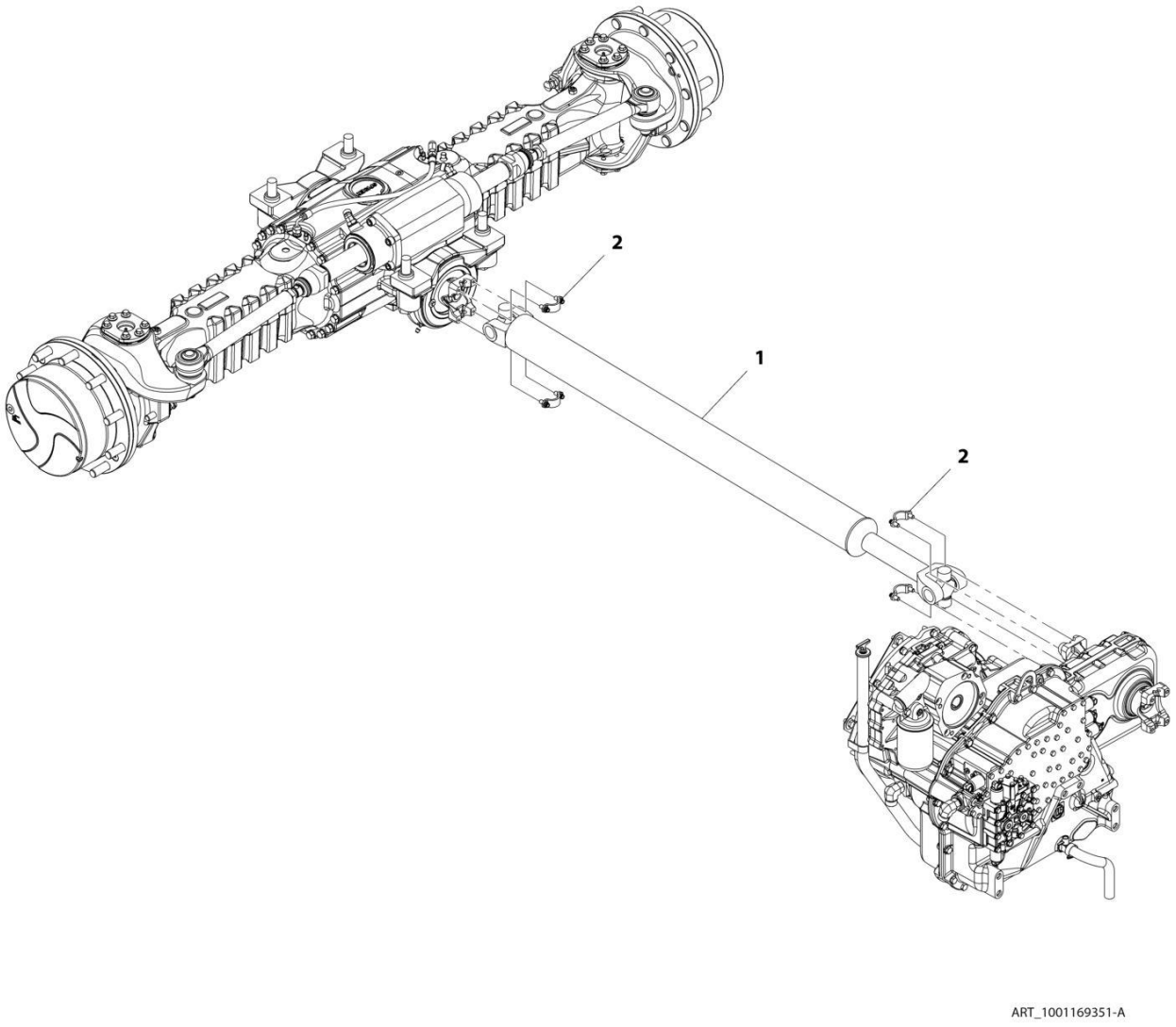

FIGURE 5-20. REAR DRIVE SHAFT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169351	Ref	Rear Drive Shaft Installation	A
1	1001170616	1	Drive Shaft, Rear	
2	8880218-OM	2	Kit, Strap	

FIGURE 5-21. REAR AXLE MOUNTING INSTALLATION

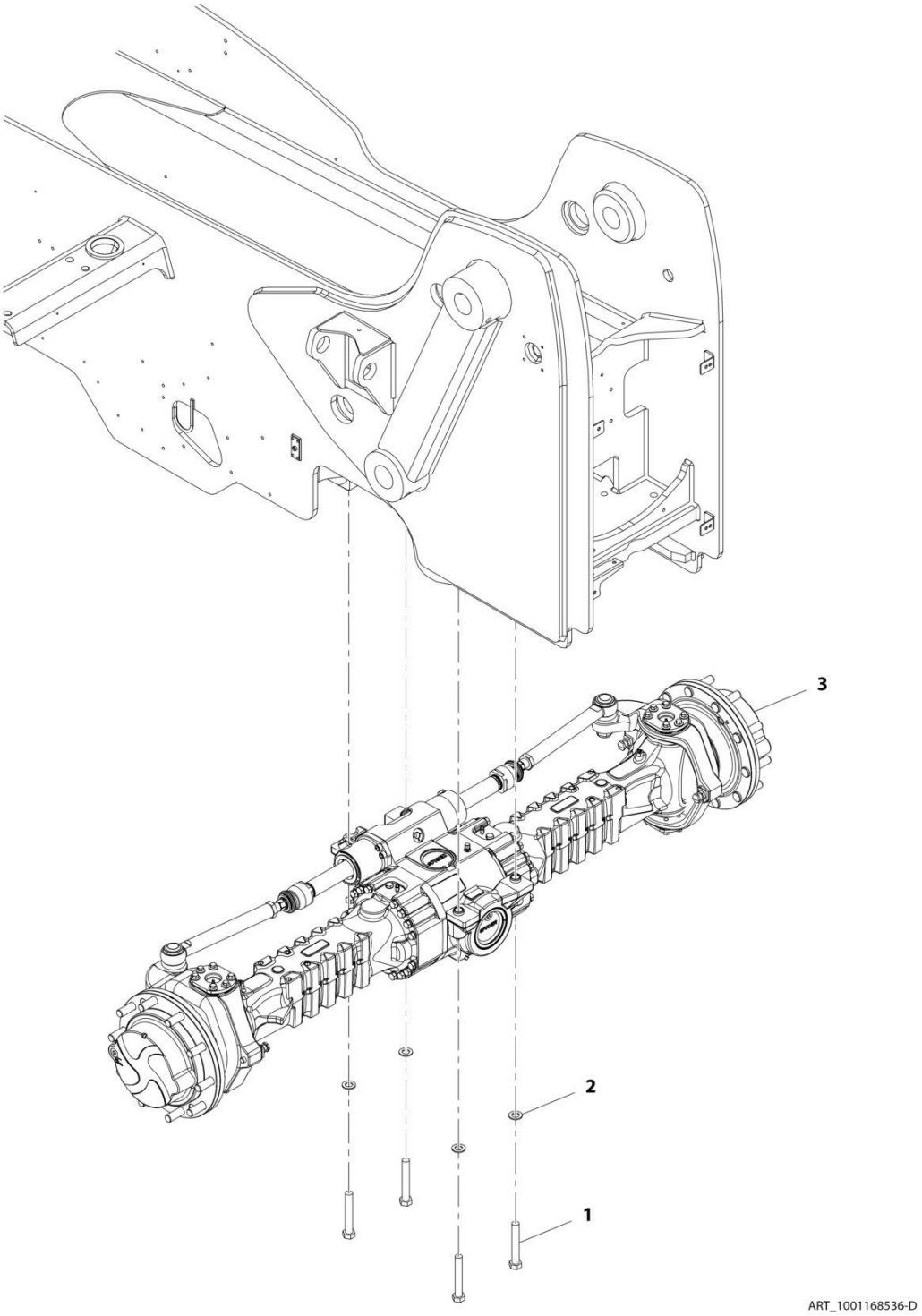

FIGURE 5-21. REAR AXLE MOUNTING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168536	Ref	Rear Axle Mounting Installation	D
1	0712030	4	Bolt, M20X130	
2	8310620	4	Washer, M20	
3	1001165834	1	Axle, Rear (See Separate Breakdown in this Section)	

FIGURE 5-22. REAR AXLE LINES INSTALLATION

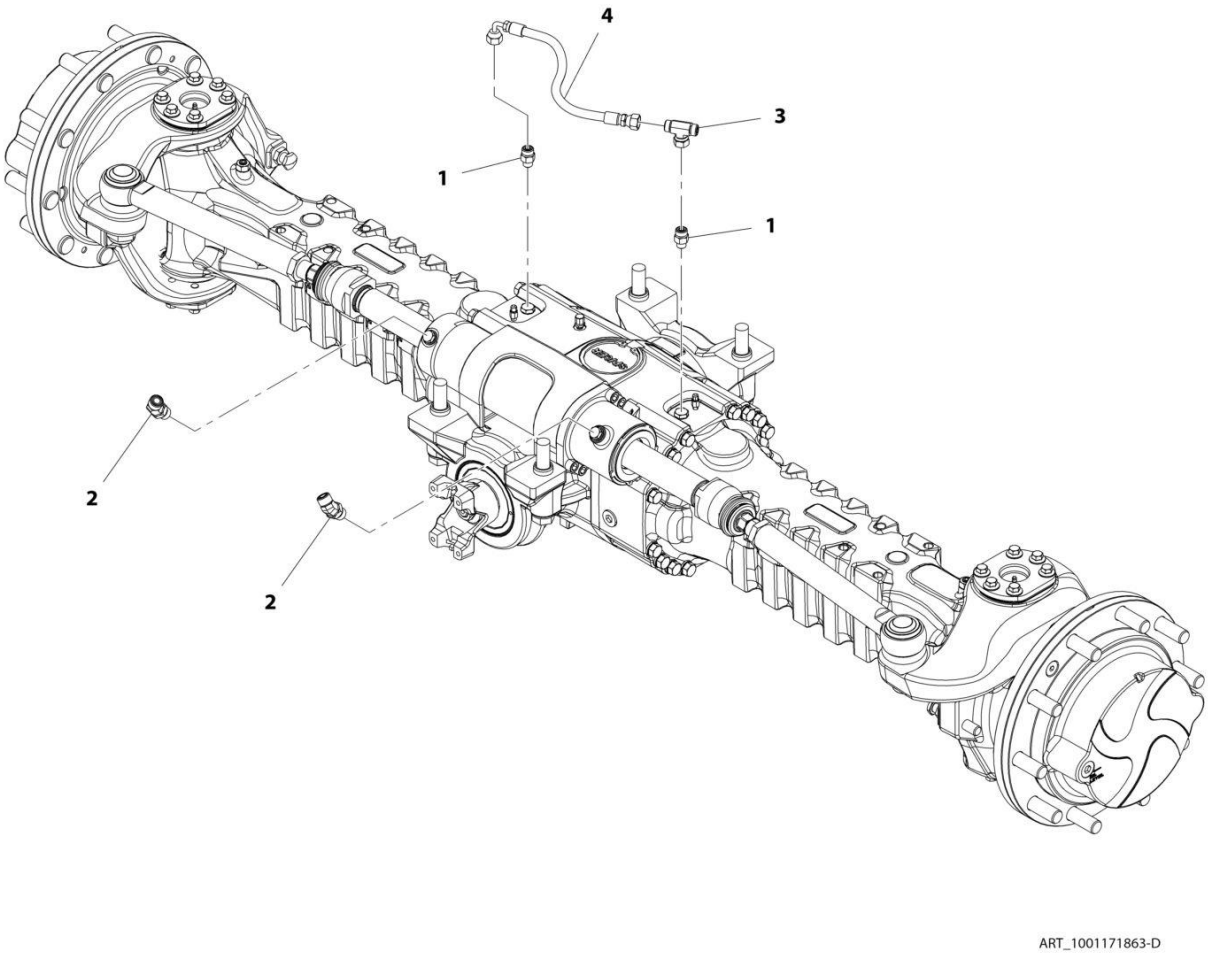

FIGURE 5-22. REAR AXLE LINES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171863	Ref	Rear Axle Lines Installation	D
1	2144605	2	Fitting, Straight ORFS	
2	1250808	2	Fitting, 45 ORFS	
3	2170806	1	Fitting, Tee ORFS	
4	1001139375	1	Hose	

FIGURE 5-23. REAR AXLE INSTALLATION

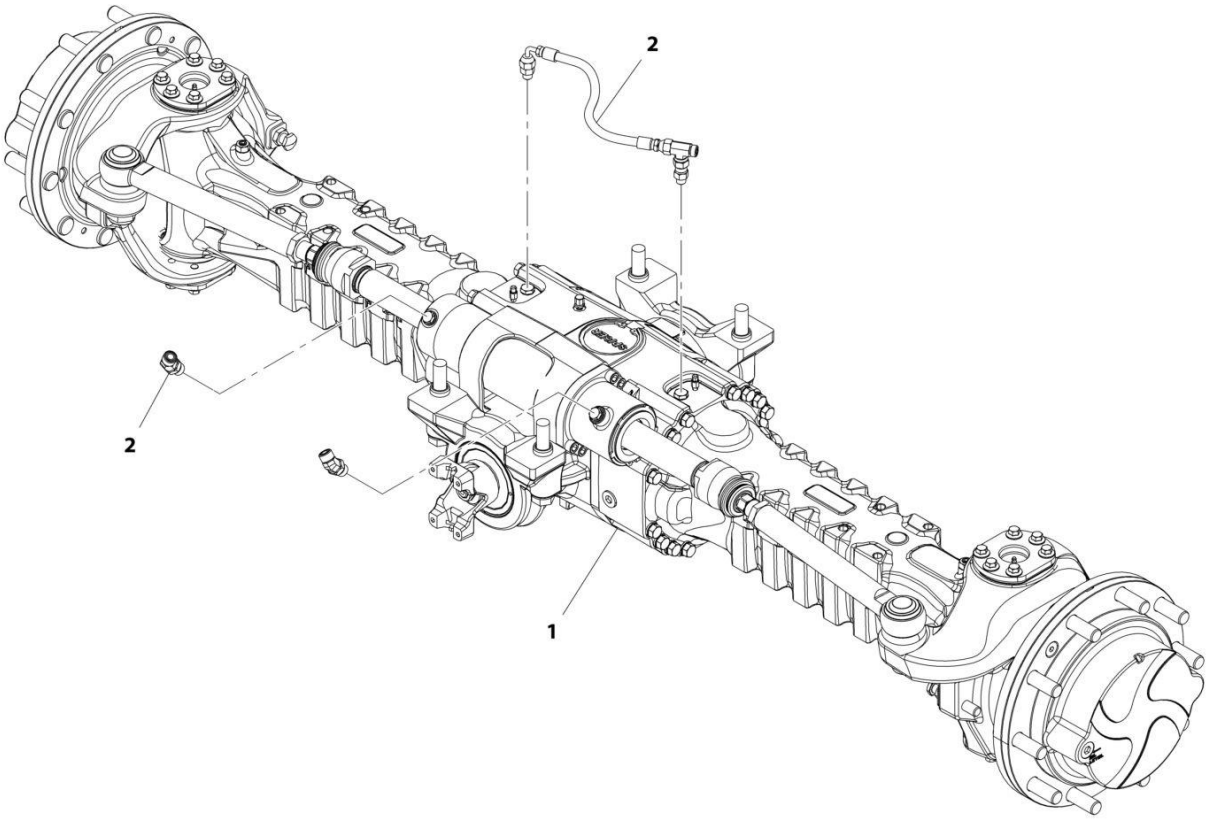

FIGURE 5-23. REAR AXLE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168537	Ref	Rear Axle Installation	A
1	1001168536	Ref	Installation, Rear Axle Mounting (See Separate Breakdown in this Section)	
2	1001171863	Ref	Installation, Rear Axle Lines (See Separate Breakdown in this Section)	

FIGURE 5-24. REAR AXLE

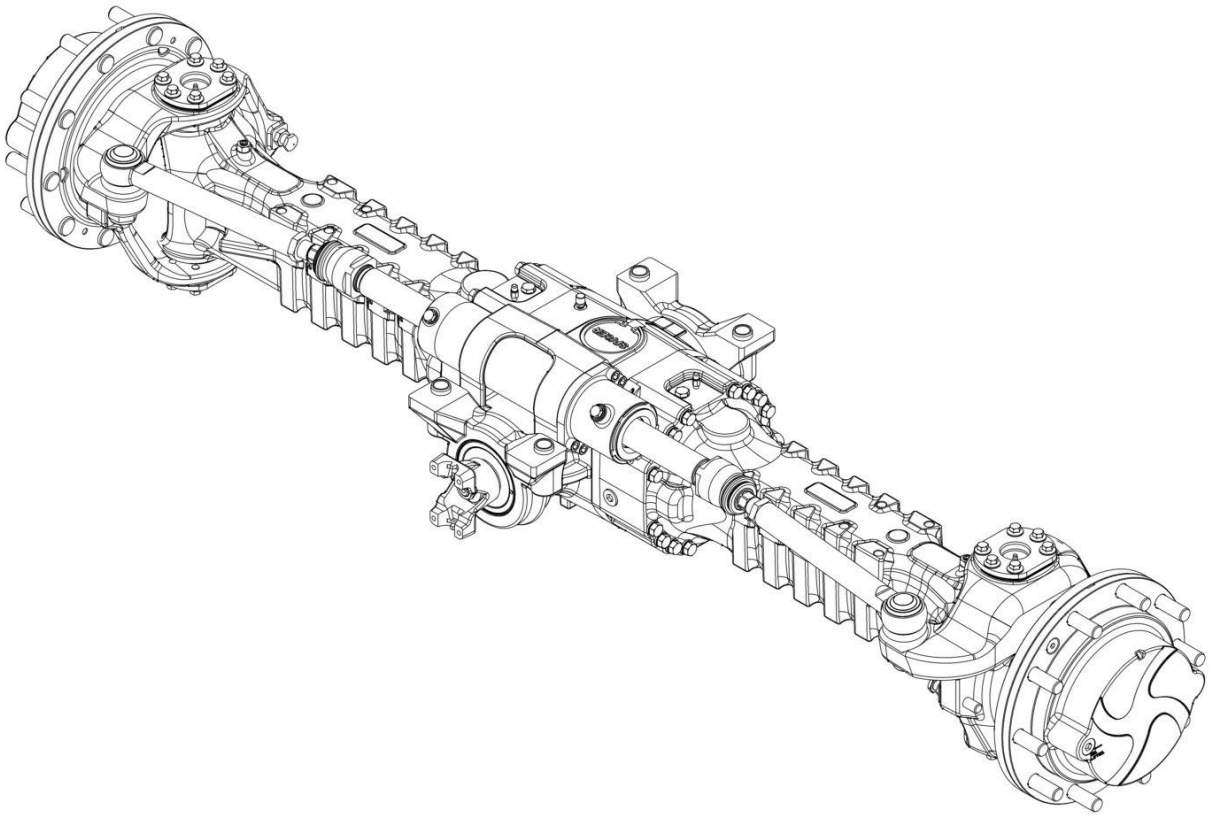

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FIGURE 5-24. REAR AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	Rear Axle (642)	F
		Ref	**Rear Axle, Central Housing (See Separate Breakdown in this Section)**	
		Ref	**Rear Axle, Differential (See Separate Breakdown in this Section)**	
		Ref	**Rear Axle, Hub Reduction (See Separate Breakdown in this Section)**	
		Ref	**Rear Axle, Brakes (See Separate Breakdown in this Section)**	
		Ref	**Rear Axle, Steering (See Separate Breakdown in this Section)**	
		Ref	**Rear Axle, Trunion (See Separate Breakdown in this Section)**	

FIGURE 5-25. REAR AXLE, CENTRAL HOUSING

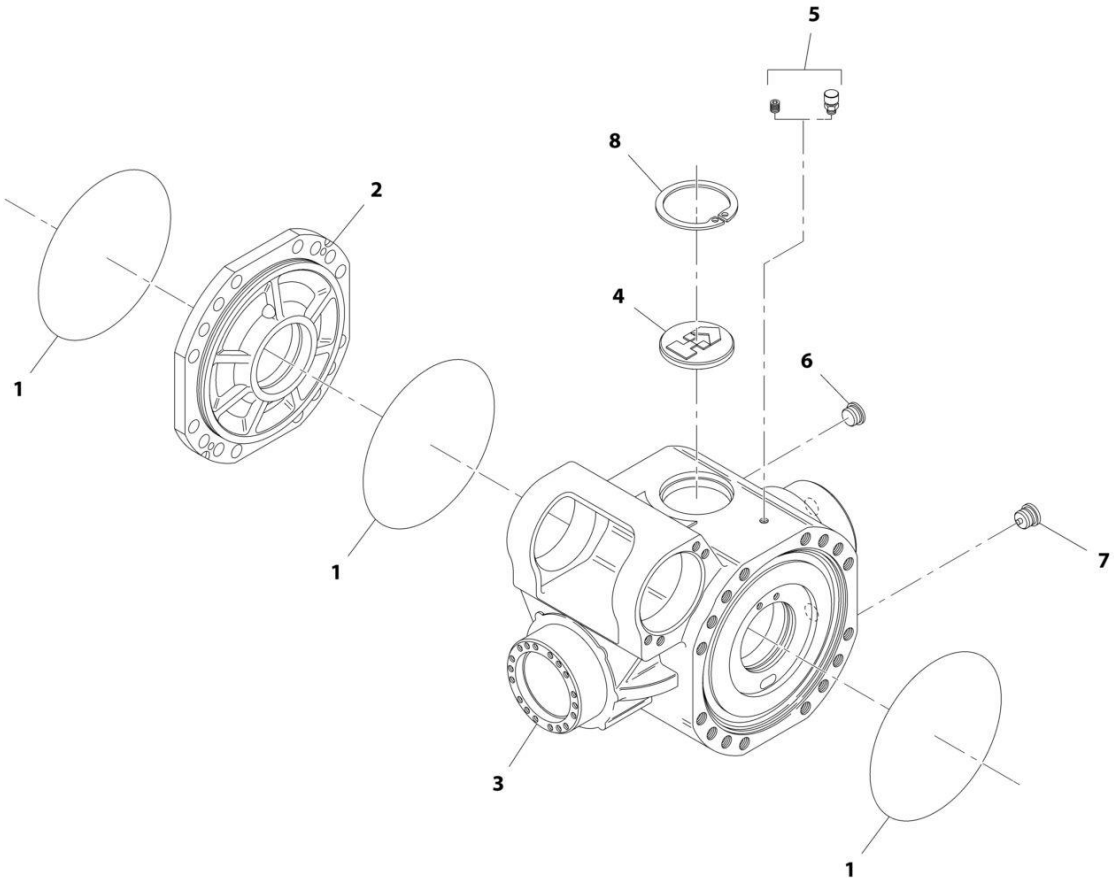

FIGURE 5-25. REAR AXLE, CENTRAL HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, CENTRAL HOUSING	
1	91474507	3	O-Ring	
2	70024519	1	Cover	
3	70026749	1	Housing	
4	91514098	1	Plug	
5	91474512	1	Vent	
6	91514188	1	Plug	
7	91474513	1	Plug, Magnet	
8	80204005	1	Circlip	

FIGURE 5-26. REAR AXLE, DIFFERENTIAL

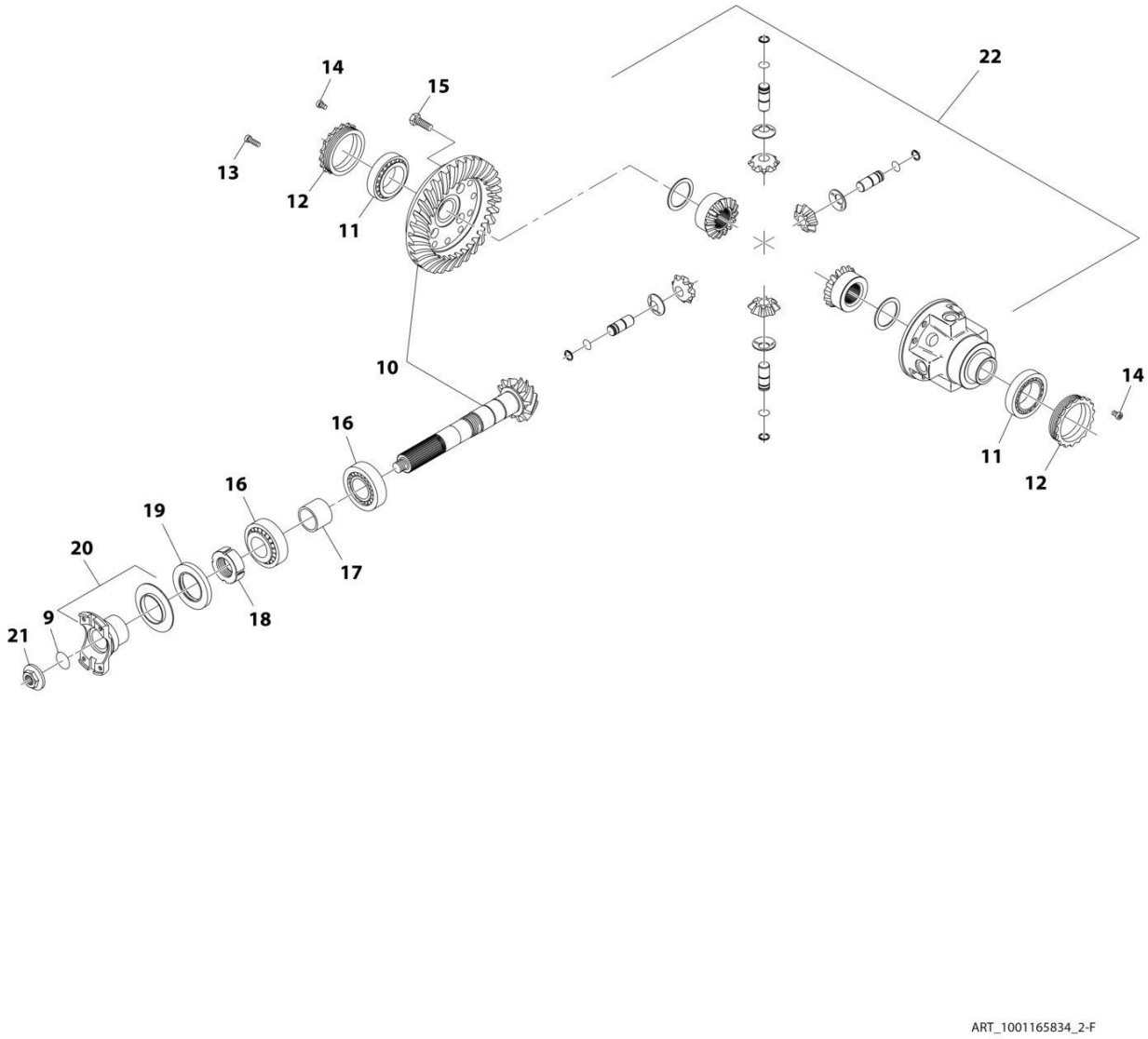

FIGURE 5-26. REAR AXLE, DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, DIFFERENTIAL	
9	91474529	1	O-Ring	
10	70026634	1	Bevel Gear Set	
11	70026031	2	Bearing, Taper Roller	
12	91474547	2	Nut, Ring	
13	91474591	4	Bolt	
14	91514134	2	Bolt	
15	91514123	12	Bolt	
16	3968141	2	Bearing, Taper Roller	
17	91474539	1	Spacer	
18	91474533	1	Nut, Ring	
19	70024522	1	Seal	
20	70022797	1	FLANGE	
21	70026631	1	Nut	
22	70021140	1	Kit, Differential (See Separate Breakdown in this Section)	

FIGURE 5-27. REAR AXLE, HUB REDUCTION

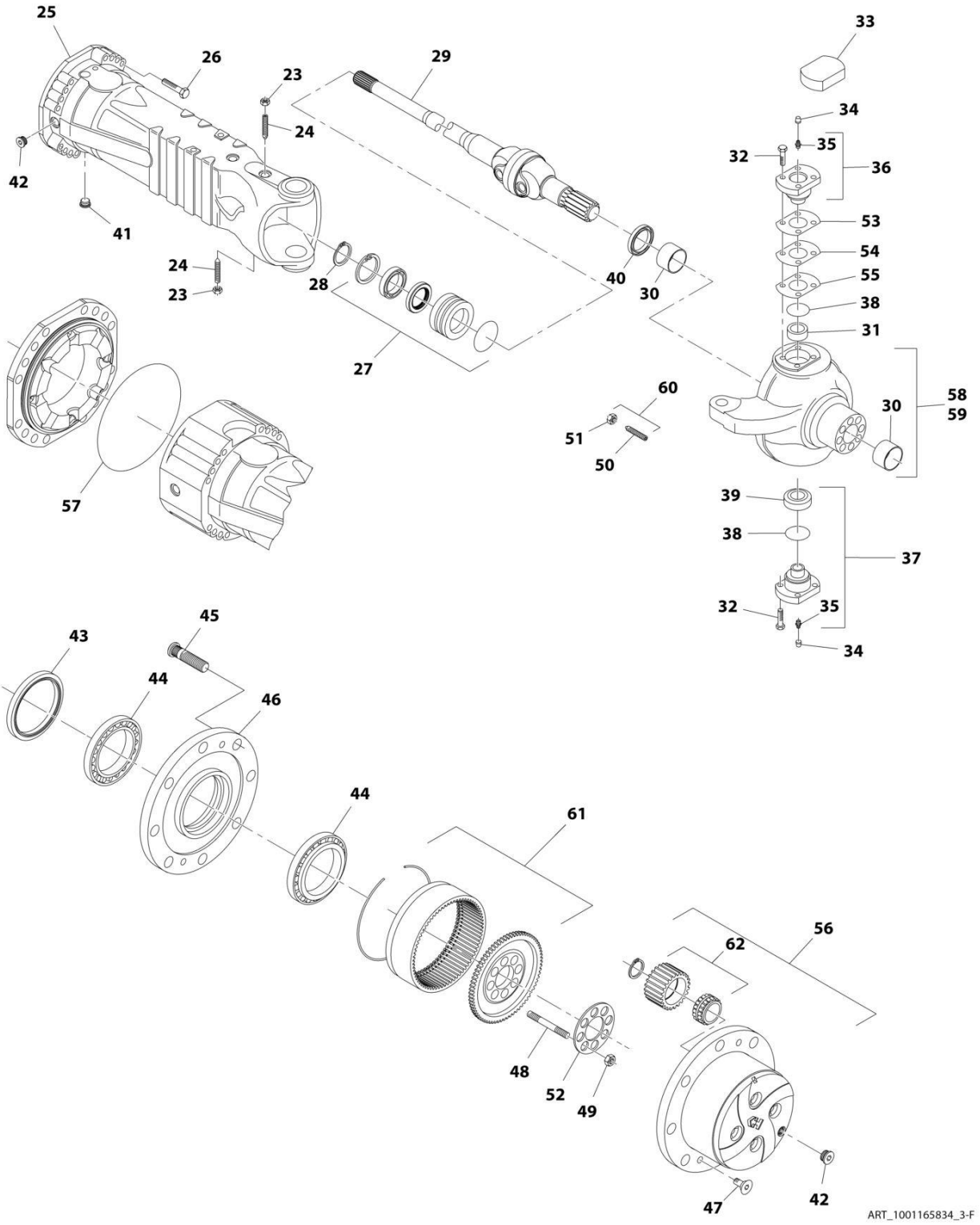

FIGURE 5-27. REAR AXLE, HUB REDUCTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, HUB REDUCTION	
23	91514082	2	Nut	
24	91514081	2	Bolt	
25	70022798	2	Axle Case	
26	70022799	32	Bolt	
27	91514149	2	Bushing, Reduction (See Separate Breakdown in this Section)	
28	91514146	2	Circlip	
29	70026624	2	Joint, Double Universal	
30	91514111	2	Bushing, Thrust	
31	7028714	2	Bushing	
32	70025562	24	Bolt	
33	91474524	2	Cover	
34	80204117	2	Plug	
35	91514099	4	Grease Fitting	
36	91514112	2	Pivot Pin	
37	7028715	2	Pivot Pin	
38	7028716	4	Dust Excluder	
39	91514095	2	Bearing	
40	70026238	2	Seal	
41	91474513	2	Plug, Magnet	
42	91514188	4	Plug	
43	7028721	2	Seal	
44	91474576	4	Bearing	
45	91514183	20	Wheel Stud	
46	7029737	2	Wheel Hub	
47	91514189	4	Bolt, Countersunk	
48	91474583	16	Stud	
49	91474584	16	Nut	
50	3984312	4	Bolt	
51	80204065	4	Nut	
52	70026622	2	Plate, Locking	
53	91514113	2	Shim	
54	91514114	2	Shim	
55	91514115	2	Shim	
56	7029431	2	Kit, Planet Gear Carrier (See Separate Breakdown in this Section)	
57	91514181	2	O-Ring	
58	70026626	1	Case, Steering	
59	70026627	1	Case, Steering	
60	7028733	4	Bolt, Steering Adjust (includes items 50 & 51)	
61	70026625	2	Kit, Ring Gear Support (See Separate Breakdown in this Section)	
62	70023900	8	Kit, Planet Gear (See Separate Breakdown in this Section)	

FIGURE 5-28. REAR AXLE, BRAKES

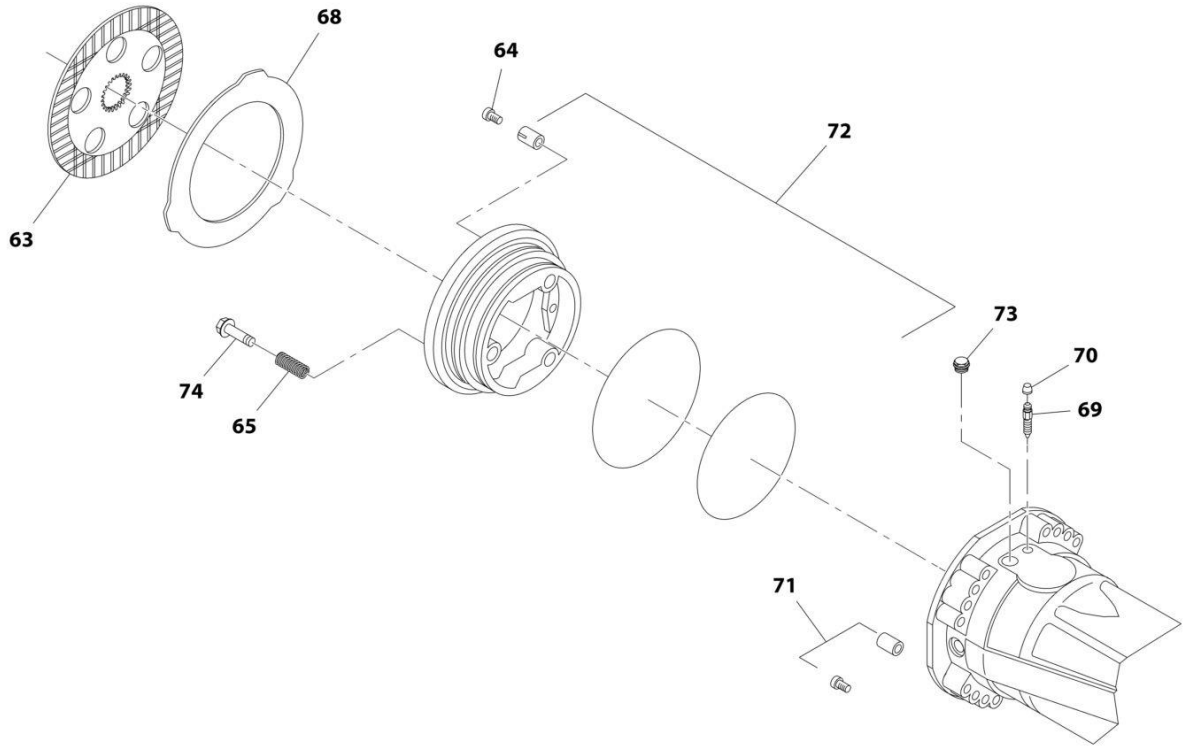

FIGURE 5-28. REAR AXLE, BRAKES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, BRAKES	
63	91474568	6	Disc	
64	7029786	6	Bolt, Adjusting	
65	91514159	6	Spring	
68	91474569	8	Disc, Intermediate Brake	
69	80204281	2	Bolt, Bleeding	
70	80204117	2	Plug	
71	70021613	2	Bolt, Pilot	
72	70025841	2	Kit, Piston (See Separate Breakdown in this Section)	
73	91514154	2	Bolt	
74	70024210	6	Bolt, Adjusting	

FIGURE 5-29. REAR AXLE, STEERING

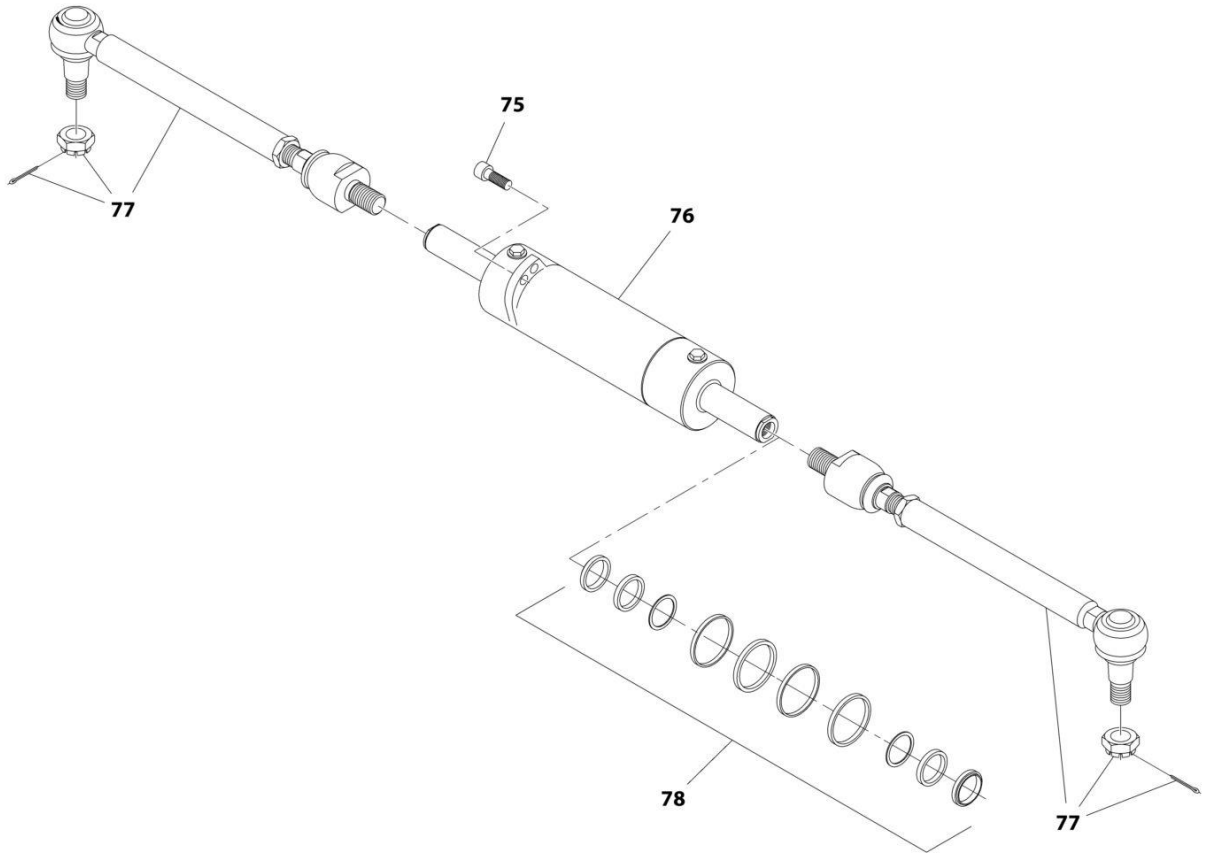

FIGURE 5-29. REAR AXLE, STEERING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, STEERING	
75	91474522	4	Bolt	
76	7029528	1	Cylinder	
77	70026799	2	Bar	
78	7029529	1	Seal	

FIGURE 5-30. REAR AXLE, TRUNION

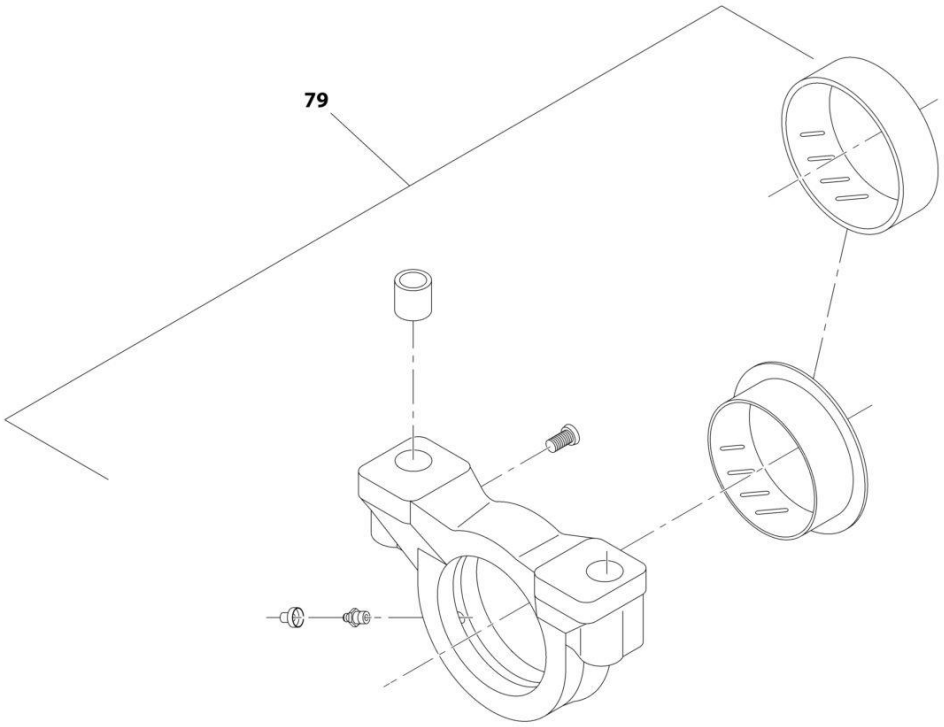

FIGURE 5-30. REAR AXLE, TRUNION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, TRUNION	
79	70026630	2	Kit, Support (See Separate Breakdown in this Section)	

FIGURE 5-31. REAR AXLE, DIFFERENTIAL KIT

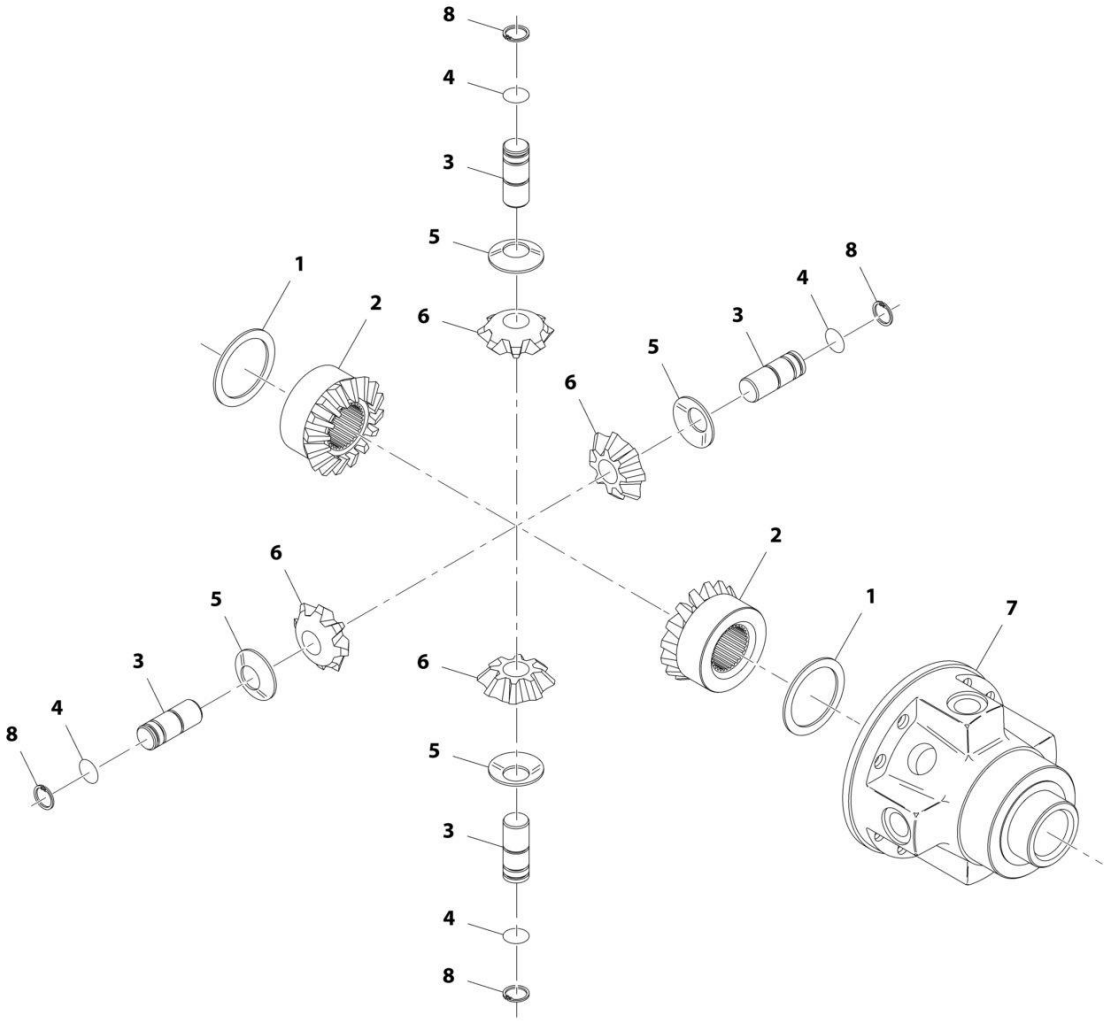

FIGURE 5-31. REAR AXLE, DIFFERENTIAL KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, DIFFERENTIAL KIT	
	70021140	Ref	Differential Kit	
1	91474593	2	Washer, Friction	
2	70025569	2	Gear, Differential Side	
3	7029131	4	Pin	
4	91474551	4	Circlip	
5	91474553	4	Washer, Friction	
6	70025570	4	Pinion, Differential	
7	91474595	1	Carrier, Differential	
8	91474550	4	Circlip	

FIGURE 5-32. REAR AXLE, REDUCTION BUSHING

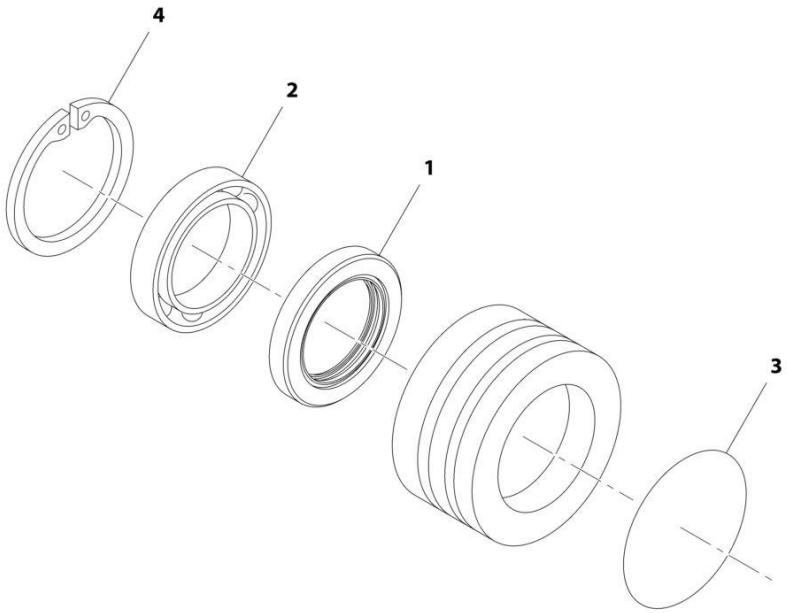

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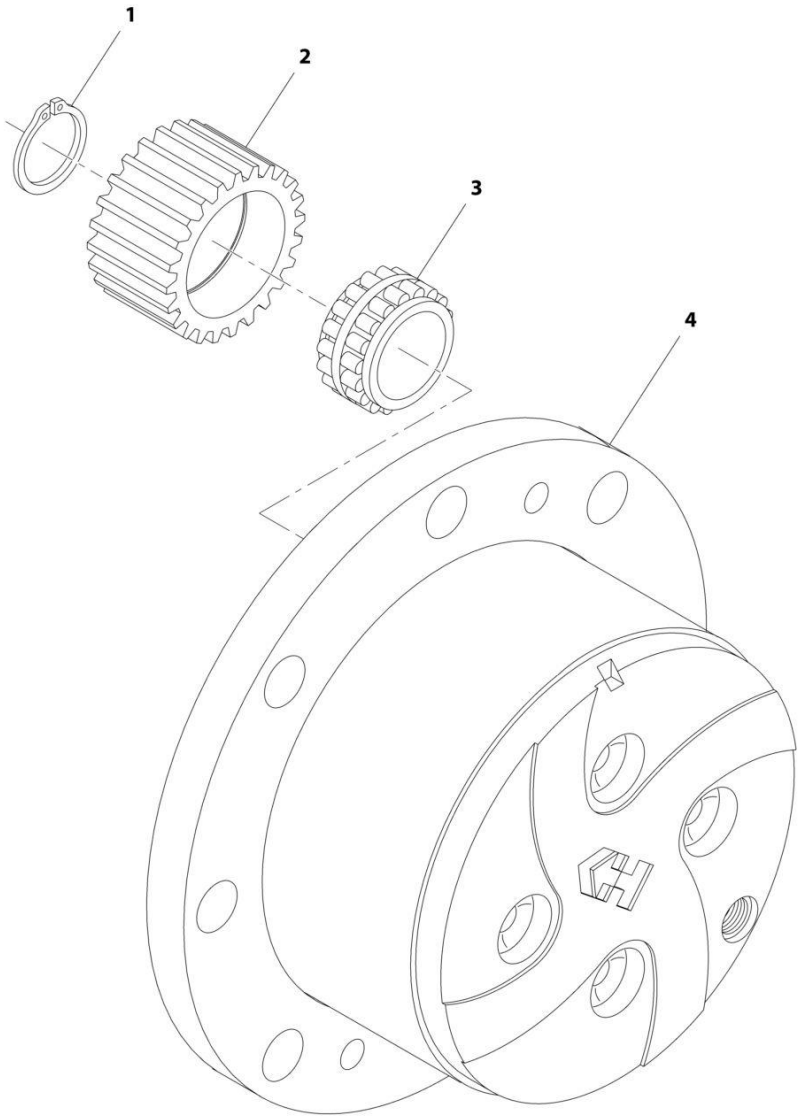
FIGURE 5-32. REAR AXLE, REDUCTION BUSHING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, REDUCTION BUSHING	
	91514149	Ref	Reduction Bushing	
1	91514147	1	Seal	
2	91514146	1	Ball Bearing	
3	91514148	1	O-Ring	
4	80204005	1	Circlip	

FIGURE 5-33. REAR AXLE, PLANET GEAR CARRIER KIT

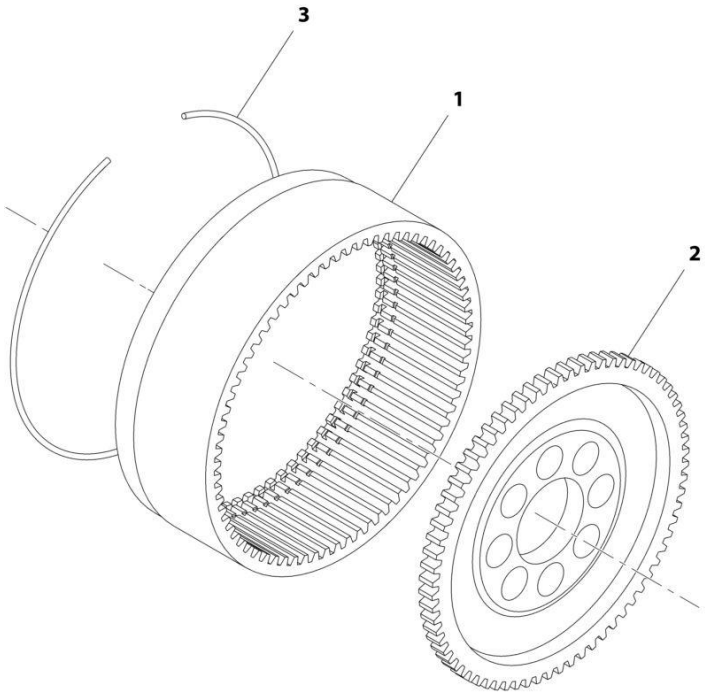


ART_1001165834_9-F

FIGURE 5-33. REAR AXLE, PLANET GEAR CARRIER KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, PLANET GEAR CARRIER KIT	
	7029431	Ref	Planet Gear Carrier Kit	
1	91474585	1	Circlip	
2	70023900	1	Gear, Planet	
3	91474587	1	Bearing	
4	7029286	1	Carrier, Planet Gear	

FIGURE 5-34. REAR AXLE, RING GEAR SUPPORT KIT

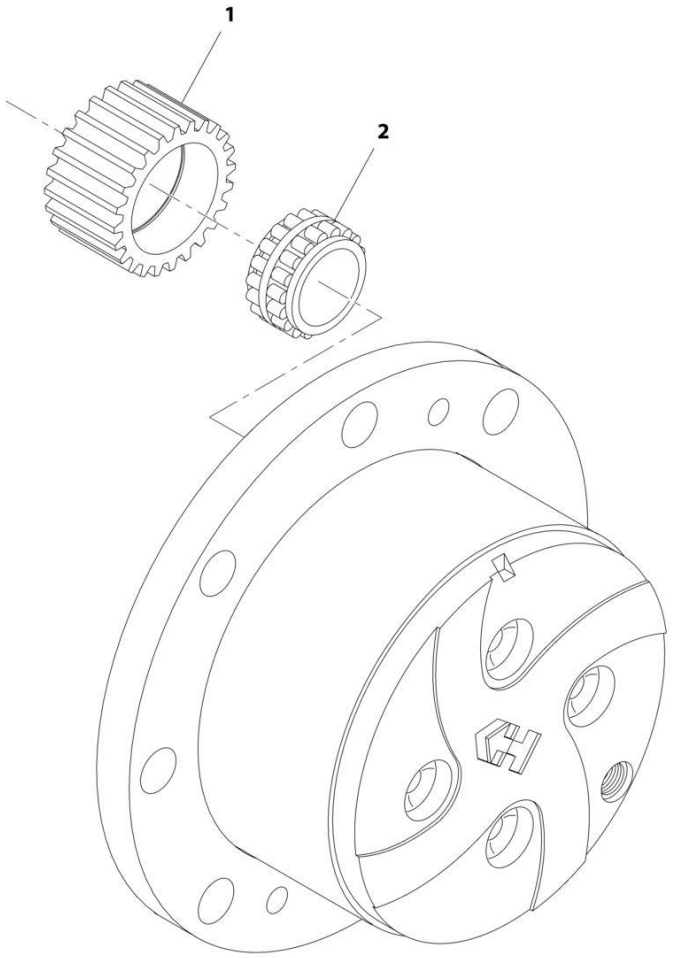


ART_1001165834_10-F

FIGURE 5-34. REAR AXLE, RING GEAR SUPPORT KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, RING GEAR SUPPORT	
	70026625	Ref	Ring Gear Support Kit	
1	91474580	1	Gear, Ring	
2	70026798	1	Support, Ring Gear	
3	91474579	1	Circlip	

FIGURE 5-35. REAR AXLE, PLANET GEAR KIT



ART_1001165834_11-F

FIGURE 5-35. REAR AXLE, PLANET GEAR KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, PLANET GEAR KIT	
	70023900	Ref	Planet Gear Kit	
1	91474586	4	Gear, Planet	
2	91474587	4	Bearing	

FIGURE 5-36. REAR AXLE, PISTON KIT

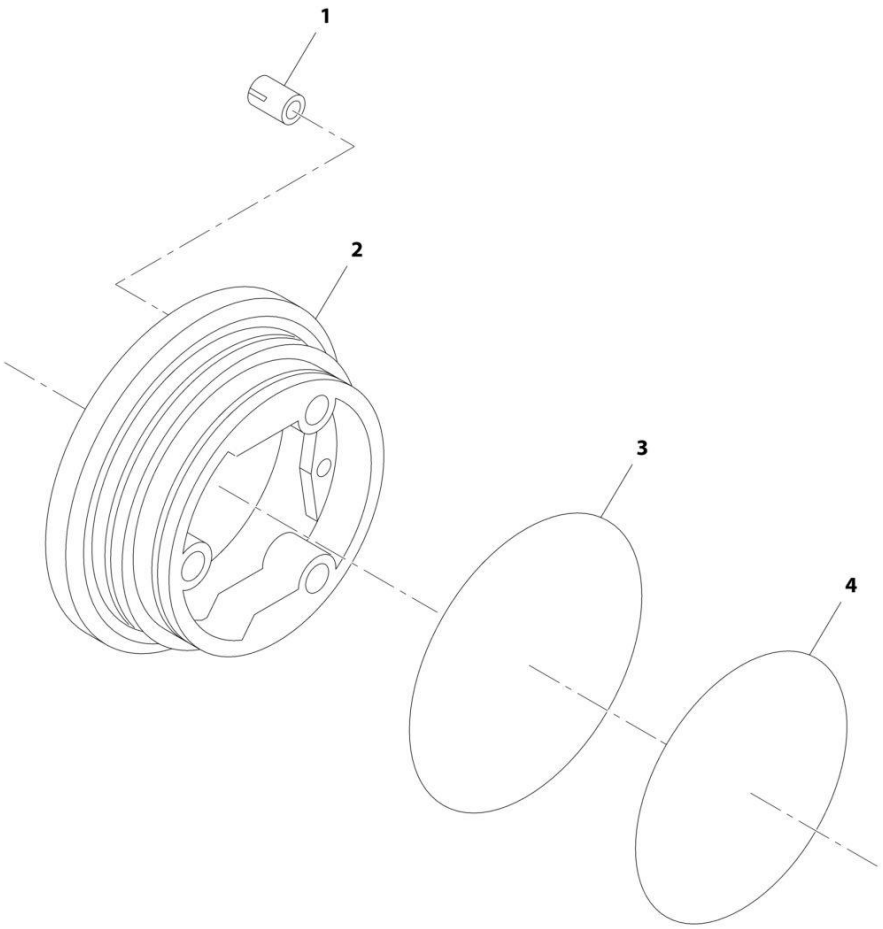


FIGURE 5-36. REAR AXLE, PISTON KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, PISTON KIT	
	70025841	Ref	Piston Kit	
1	91514165	3	Spring	
2	NSS	Ref	Piston	
3	70025821	1	O-Ring	
4	70025822	1	O-Ring	

FIGURE 5-37. REAR AXLE, SUPPORT KIT

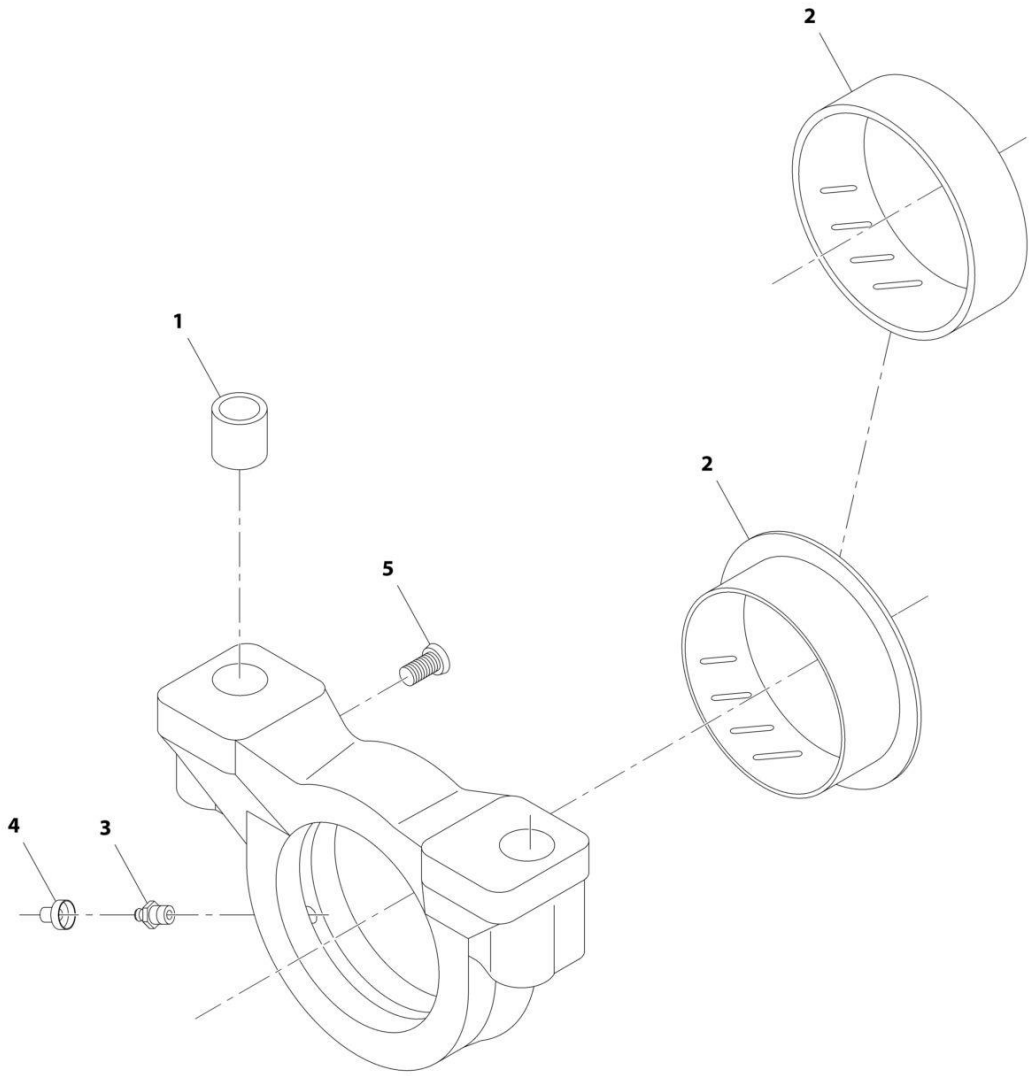


FIGURE 5-37. REAR AXLE, SUPPORT KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165834	Ref	REAR AXLE, SUPPORT KIT	
	70026630	Ref	Support Kit	
1	91474516	2	Bushing, Reduction	
2	91474515	1	Bushing, Thrust	
3	91514099	1	Fitting, Grease	
4	80204117	1	Plug	
5	70025884	1	Bolt	

FIGURE 5-38. TRANSMISSION INSTALLATION

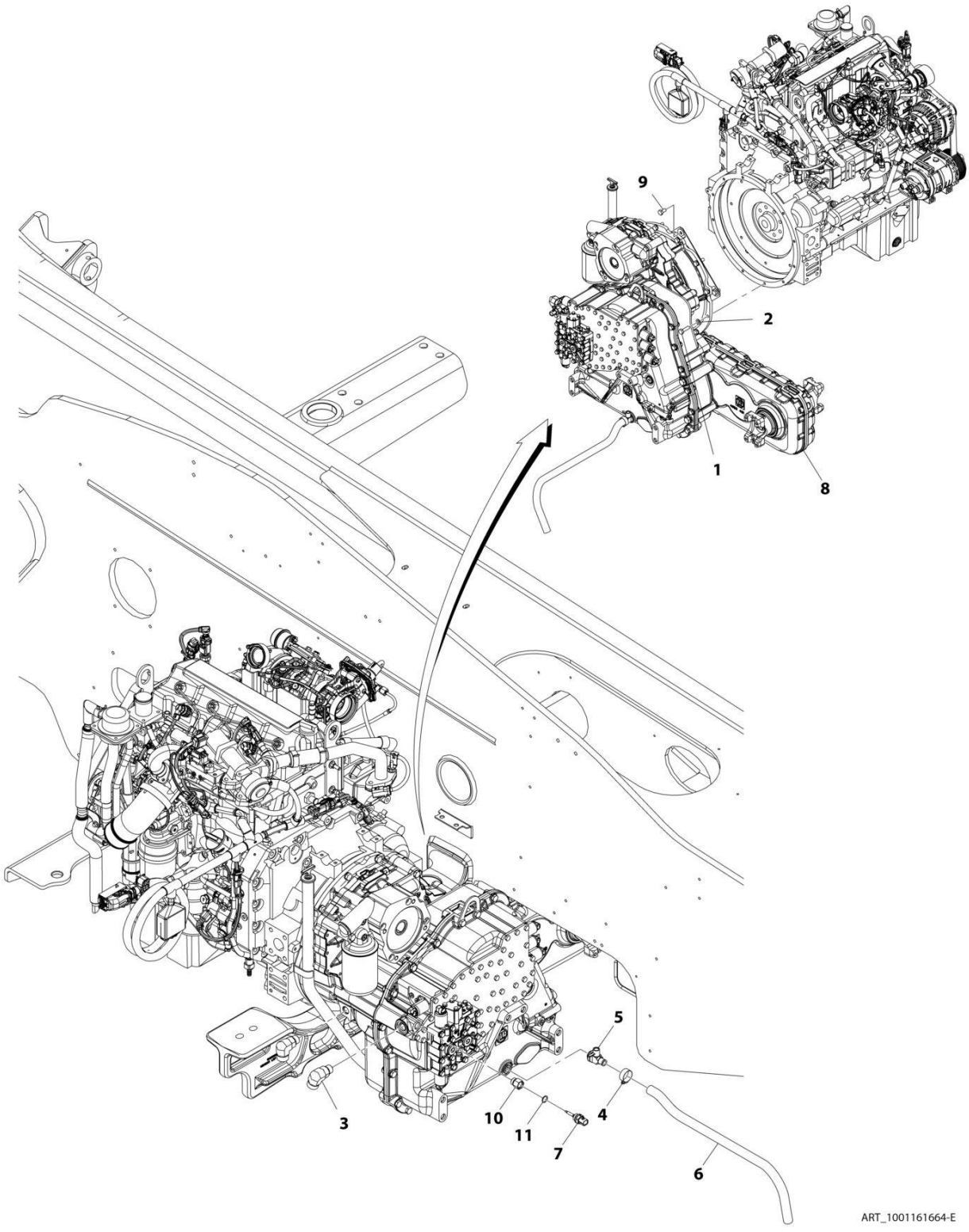
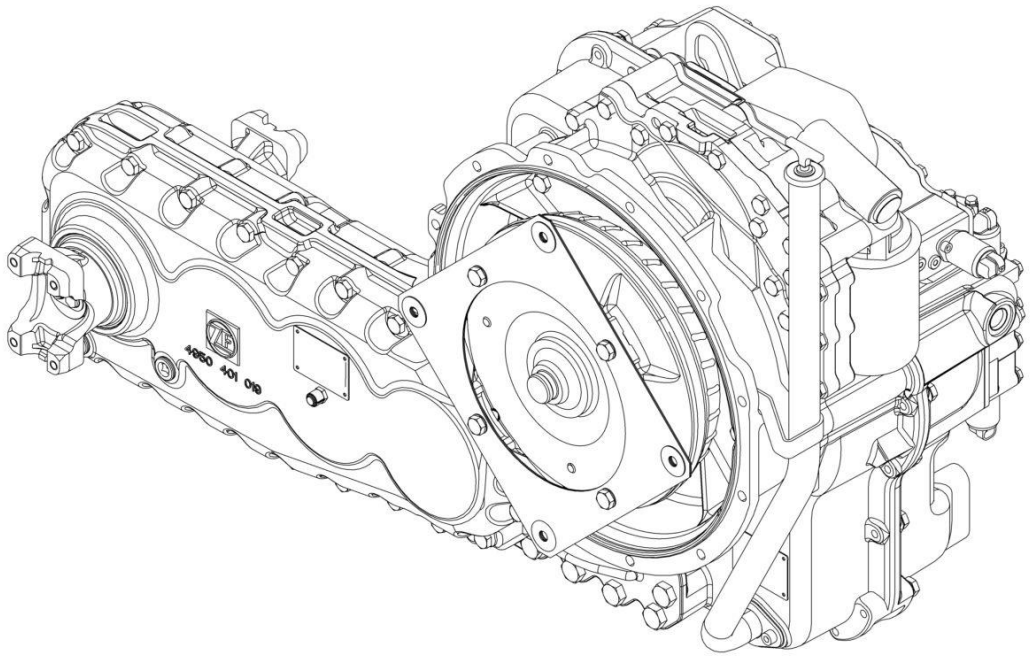


FIGURE 5-38. TRANSMISSION INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161664	Ref	Transmission Installation	E
1	0711015	12	Screw, M10X35	
2	4812000	12	Washer, M10	
3	2131210	2	Fitting, 90 ORFS	
4	8405007	1	Clamp, Hose	
5	1001097053	1	Valve, Oil Drain	
6	1001186225	1	Hose, Drain	
7	1001128478	1	Switch, Oil Temperature	
8	1001170171	1	Transmission, Powershift (See Separate Breakdown in this Section)	
9	0761010	4	Screw, M10X20	
10	1001220760	1	Adapter	
11	1001009163	1	Seal	

FIGURE 5-39. POWERSHIFT TRANSMISSION



ART_1001170171_1-C

FIGURE 5-39. POWERSHIFT TRANSMISSION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	Powershift Transmission	C
		Ref	**Transmission, Engine Connection (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Converter (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Input (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing Group 1 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing Group 2 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Clutch Group 1 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Clutch Group 2 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Coupling Group 1 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Coupling Group 2 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Coupling Group 3 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Coupling Group 4 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Output (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Power Take-Off (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Control Unit (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Shift System (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Pressure Regulator (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Pressure Oil Pump (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Inductive Transmitter (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Filter (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Accessories Group 1 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Peripherals Group 1 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Peripherals Group 2 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Accessories Group 2 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing Group (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing 1 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing 2 (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing Input (See Separate Breakdown in this Section)**	
		Ref	**Transmission, Housing Output 1 (See Separate Breakdown in this Section)**	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Transmission, Housing Output 2 (See Separate Breakdown in this Section)**	

FIGURE 5-40. TRANSMISSION, ENGINE CONNECTION

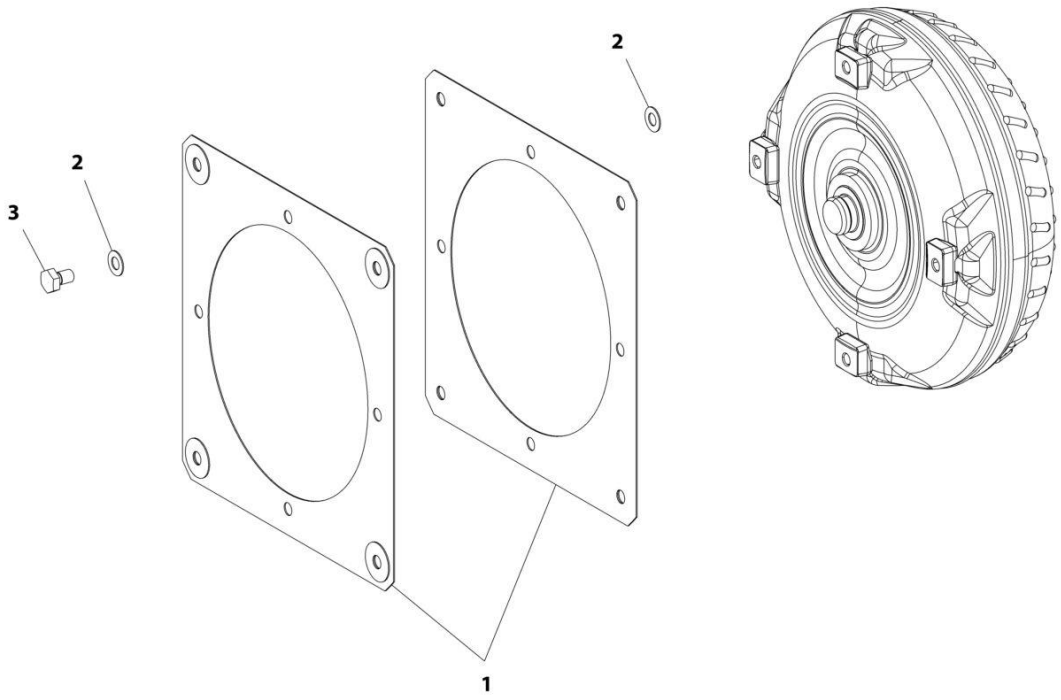
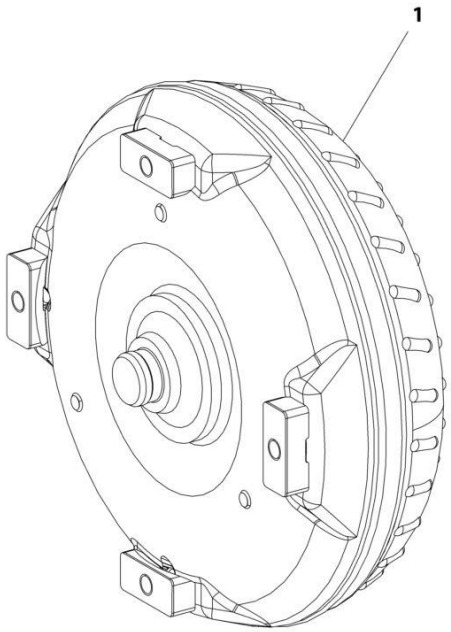


FIGURE 5-40. TRANSMISSION, ENGINE CONNECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, ENGINE CONNECTION	C
1	1319229	2	Diaphragm	
2	7026745	8	Washer, Thrust M10	
3	7026744	4	Bolt, M10X16	

FIGURE 5-41. TRANSMISSION, CONVERTER



ART_1001170171_3-C

FIGURE 5-41. TRANSMISSION, CONVERTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, CONVERTER	C
1	7026746	1	Converter, Torque	

FIGURE 5-42. TRANSMISSION, INPUT

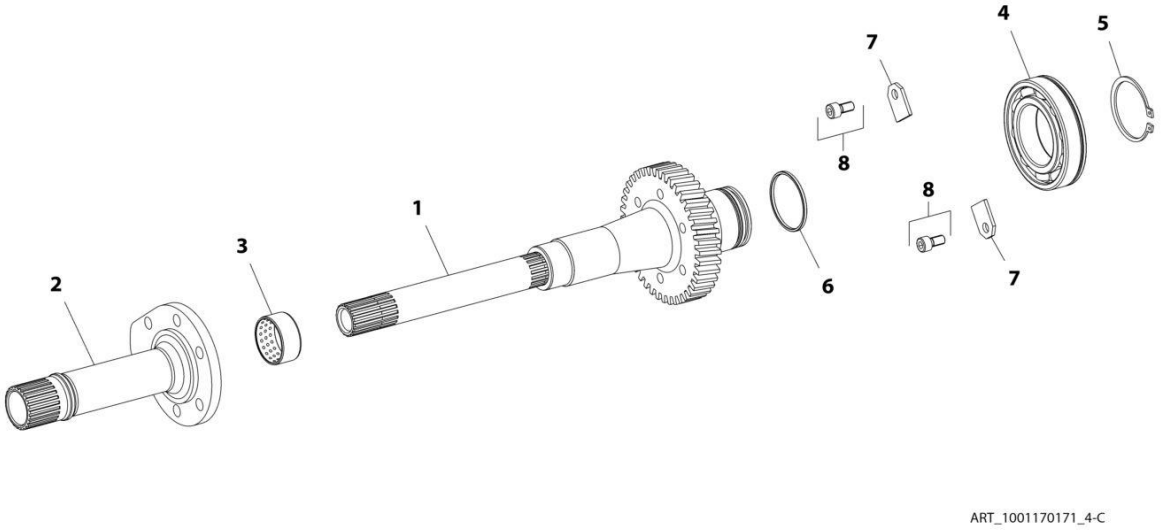


FIGURE 5-42. TRANSMISSION, INPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, INPUT	C
1	7026747	1	Shaft, Turbine	
2	7026748	1	Shaft, Stator	
3	1319558	1	Bushing, Bearing	
4	1319563	1	Bearing, Ball	
5	80304405	1	Ring, Retaining	
6	7026749	1	Ring, Piston	
7	70026515	2	Strap	
8	70026516	2	Bolt, M8X16	

FIGURE 5-43. TRANSMISSION, HOUSING GROUP 1

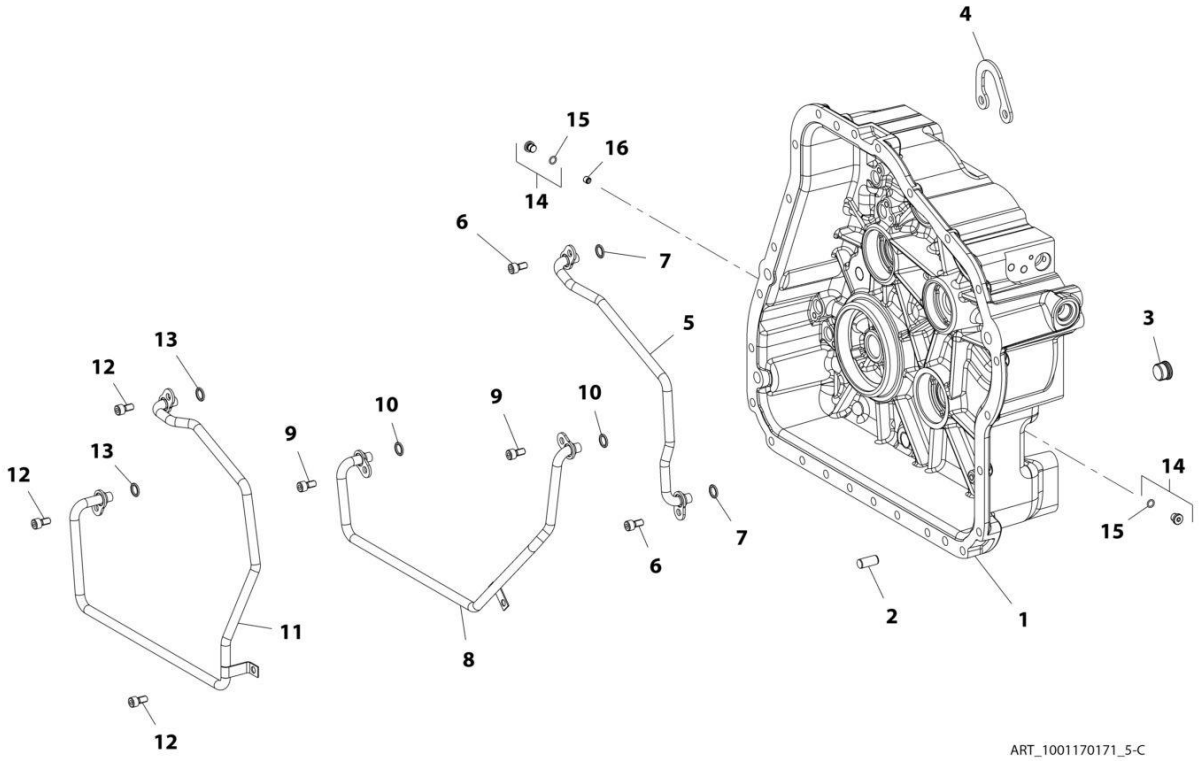


FIGURE 5-43. TRANSMISSION, HOUSING GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, HOUSING GROUP 1	C
1	7029973	1	Housing	
2	1319571	2	Pin, Dowel	
3	70023404	1	Plug	
4	1319590	1	Bracket, Lift	
5	7026750	1	Pipe	
6	70026516	2	Bolt, M8X16	
7	8036847	2	O-Ring	
8	7026751	1	Pipe	
9	70026516	2	Bolt, M8X16	
10	8036847	2	O-Ring	
11	7026752	1	Pipe	
12	70026516	3	Bolt, M8X16	
13	8036847	2	O-Ring	
14	70026517	7	Plug, Screw	
15	10731709	7	O-Ring	
16	70026518	1	Nozzle	

FIGURE 5-44. TRANSMISSION, HOUSING GROUP 2

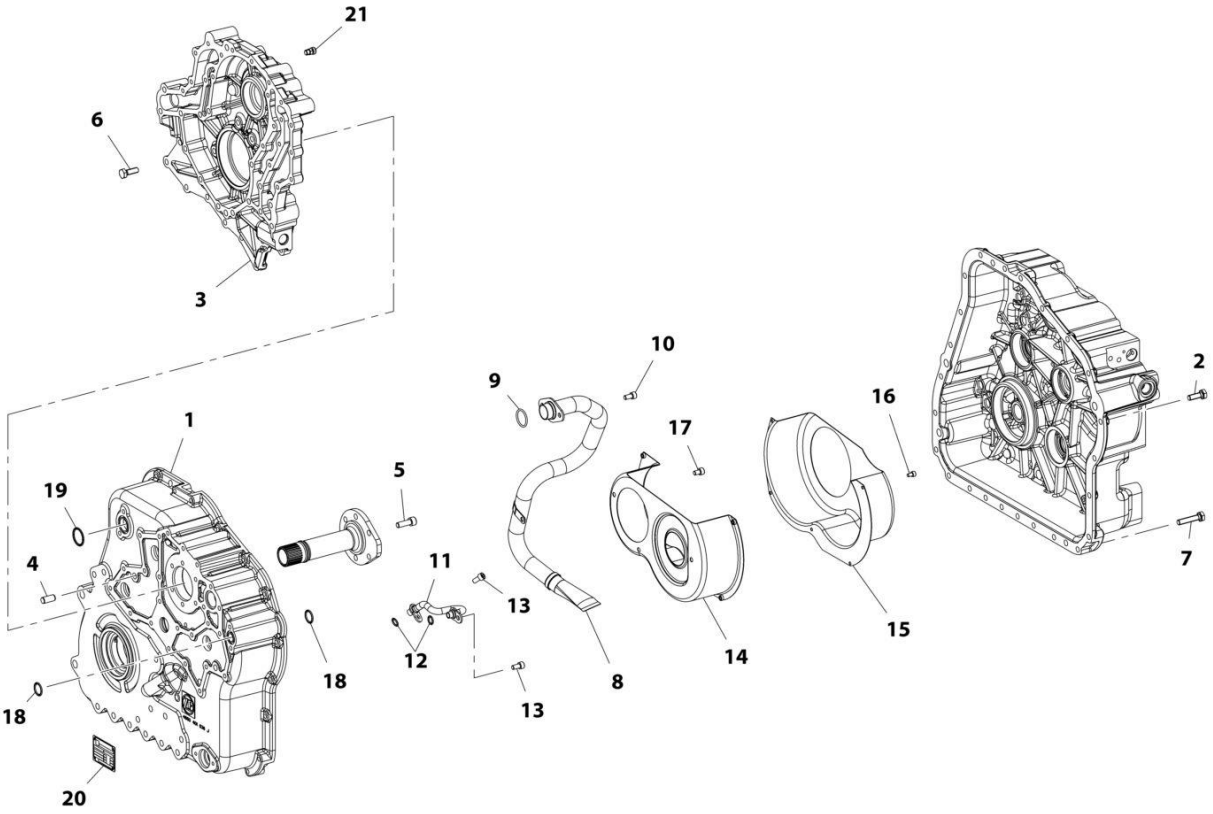


FIGURE 5-44. TRANSMISSION, HOUSING GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, HOUSING GROUP 2	C
1	7029972	1	Housing	
2	80304394	18	Bolt, M10X30	
3	70021920	1	Housing, PTO	
4	1319571	2	Pin, Dowel	
5	70026519	6	Bolt, M10X30	
6	80304394	13	Bolt, M10X30	
7	7026794	6	Bolt, M10X50	
8	7026753	1	Tube, Suction	
9	70023885	1	O-Ring	
10	70026516	2	Bolt, M8X16	
11	7026754	1	Pipe	
12	8036847	2	O-Ring	
13	70026516	2	Bolt, M8X16	
14	7026755	1	Sheet, Screen	
15	7026756	1	Sheet, Screen	
16	70026520	5	Bolt, M6X10	
17	70026521	3	Bolt, M8X12	
18	7026792	2	O-Ring	
19	70023885	1	O-Ring	
20	N.S.S.	1	Plate, Serial Number	
21	10731744	1	Breather	

FIGURE 5-45. TRANSMISSION, CLUTCH GROUP 1

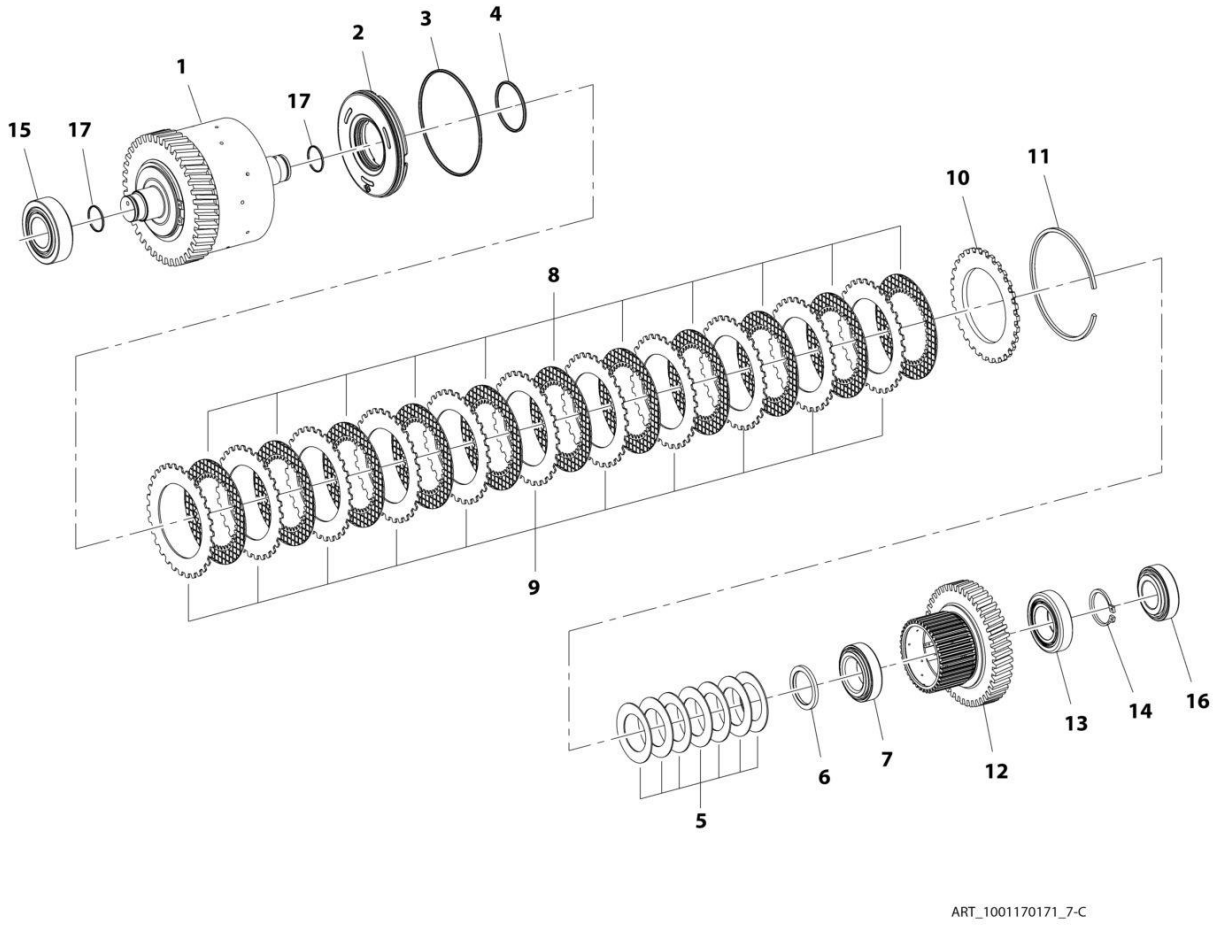


FIGURE 5-45. TRANSMISSION, CLUTCH GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, CLUTCH GROUP 1	C
1	7026757	1	Coupling	
2	70022075	1	Piston	
3	1319594	1	O-Ring	
4	1319593	1	O-Ring	
5	1319595	7	Spring, Cup	
6	1319617	1	Shim	
7	1319618	AR	Bearing, Roller	
8	7026758	11	Disc, Friction	
9	7026759	11	Disc, Clutch	
10	7026760	1	Shim	
11	70026527	AR	Ring, Snap 2.00	
11	70026528	AR	Ring, Snap 2.25	
11	70026529	AR	Ring, Snap 2.50	
11	7029852	AR	Ring	
11	1319602	AR	Ring	
11	7029849	AR	Ring	
11	1319601	AR	Ring	
11	7029850	AR	Ring	
11	1319600	AR	Ring	
12	1319638	1	Carrier, Inner Disc	
13	1319620	AR	Bearing, Roller	
14	1319632	AR	Ring	
14	1319631	AR	Ring	
14	1319630	AR	Ring	
14	1319629	AR	Ring	
14	1319628	AR	Ring	
14	1319627	AR	Ring	
14	1319626	AR	Ring	
14	1319625	AR	Ring	
14	1319624	AR	Ring	
14	1319623	AR	Ring	
14	1319622	AR	Ring	
14	1319621	AR	Ring	
15	1319615	1	Bearing, Roller	
16	1319636	1	Bearing, Roller	
17	7026761	2	Ring, Piston	

FIGURE 5-46. TRANSMISSION, COUPLING GROUP 1

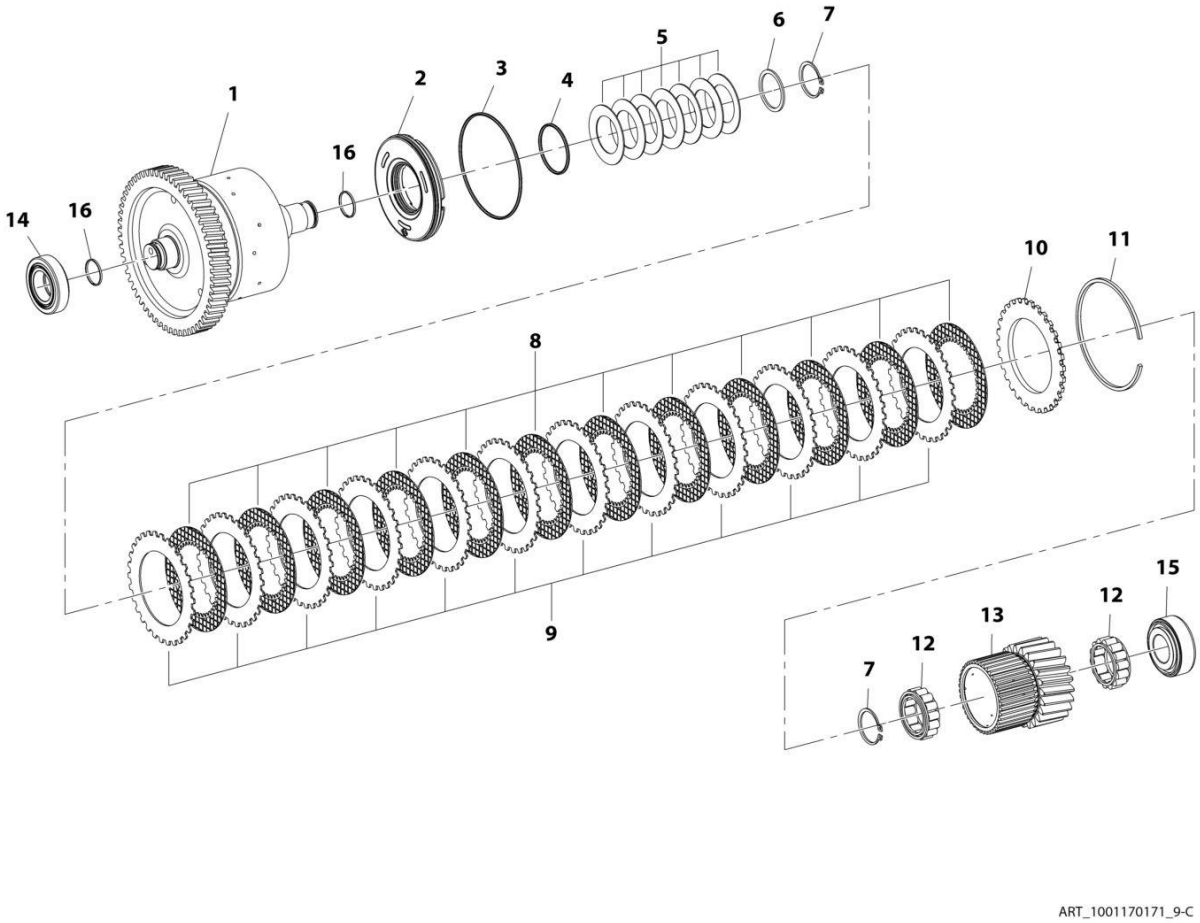


FIGURE 5-46. TRANSMISSION, COUPLING GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, COUPLING GROUP 1	C
1	70026530	1	Coupling	
2	70022075	1	Piston	
3	1319594	1	O-Ring	
4	1319593	1	O-Ring	
5	1319595	7	Spring, Cup	
6	1319596	1	Shim	
7	10731845	2	Ring, Retaining	
8	7026758	12	Disc, Friction	
9	7026759	12	Disc, Clutch	
10	7026760	1	Shim	
11	70026527	AR	Ring, Snap 2.00	
11	70026528	AR	Ring, Snap 2.25	
11	70026529	AR	Ring, Snap 2.50	
11	7029852	AR	Ring	
11	1319602	AR	Ring	
11	7029849	AR	Ring	
11	1319601	AR	Ring	
11	7029850	AR	Ring	
11	1319600	AR	Ring	
12	1319605	AR	Cage, Roller	
13	1319607	1	Carrier, Disc	
14	1319608	1	Bearing, Roller	
15	8036190	1	Bearing, Roller	
16	7026761	2	Piston Ring	

FIGURE 5-47. TRANSMISSION, COUPLING GROUP 2

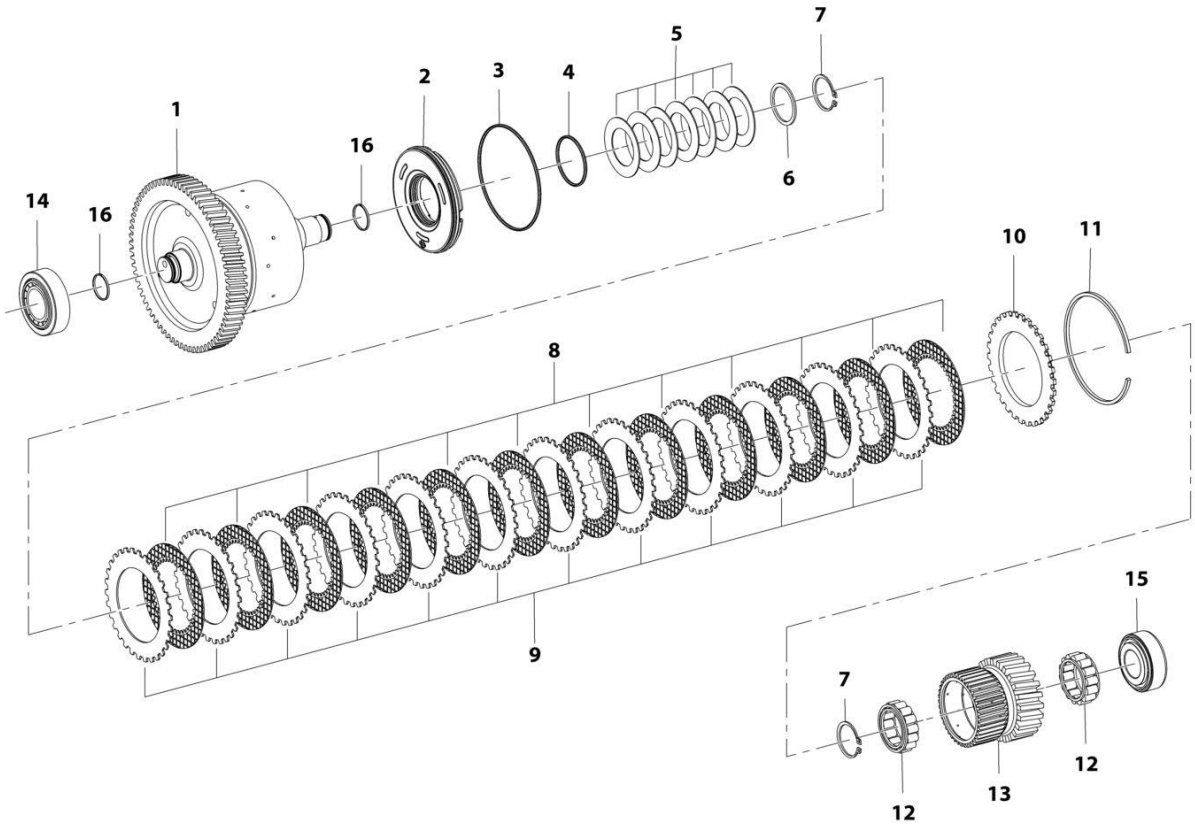


FIGURE 5-47. TRANSMISSION, COUPLING GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, COUPLING GROUP 2	C
1	70026531	1	Coupling	
2	70022075	1	Piston	
3	1319594	1	O-Ring	
4	1319593	1	O-Ring	
5	1319595	7	Spring, Cup	
6	1319596	1	Shim	
7	10731845	2	Ring, Retaining	
8	7026758	12	Disc, Friction	
9	7026759	12	Disc, Clutch	
10	7026760	1	Shim	
11	70026527	AR	Ring, Snap 2.00	
11	70026528	AR	Ring, Snap 2.25	
11	70026529	AR	Ring, Snap 2.50	
11	7029852	AR	Ring	
11	1319602	AR	Ring	
11	7029849	AR	Ring	
11	1319601	AR	Ring	
11	7029850	AR	Ring	
11	1319600	AR	Ring	
12	1319605	AR	Bearing, Roller	
13	1319614	1	Carrier, Disc	
14	1319615	1	Bearing, Roller	
15	8036190	1	Bearing, Roller	
16	7026761	2	Ring, Piston	

FIGURE 5-48. TRANSMISSION, COUPLING GROUP 3

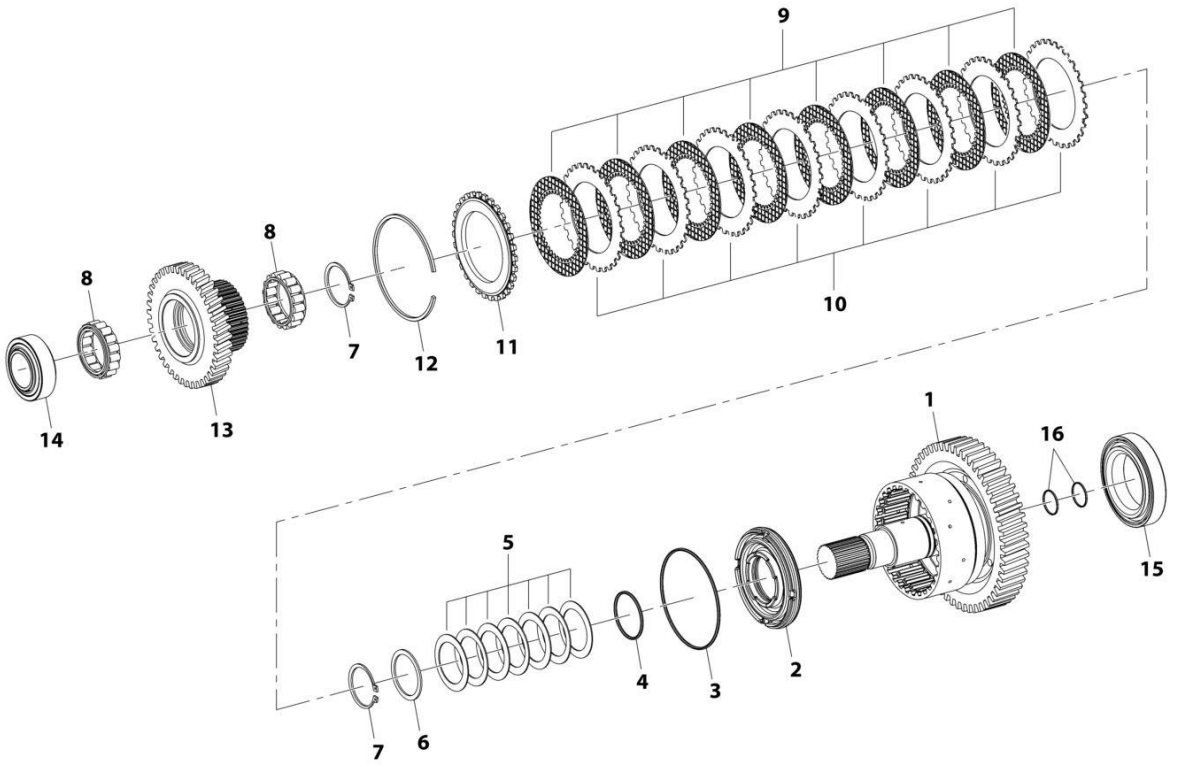


FIGURE 5-48. TRANSMISSION, COUPLING GROUP 3

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, COUPLING GROUP 3	C
1	70026532	1	Coupling	
2	70022075	1	Piston	
3	1319594	1	O-Ring	
4	1319593	1	O-Ring	
5	7026765	7	Spring, Cup	
6	7026766	1	Washer	
7	80304227	AR	Ring, Retaining	
8	70021227	AR	Ring	
8	70021228	AR	Cage, Roller	
9	7026758	AR	Disc, Friction	
10	7026759	AR	Disc, Clutch	
11	7026760	AR	Shim	
12	70026527	AR	Ring	
12	70026528	AR	Ring	
12	70026529	AR	Ring	
12	7029852	AR	Ring	
12	1319602	AR	Ring	
12	7029849	AR	Ring	
12	1319601	AR	Ring	
12	7029850	AR	Ring	
12	1319600	AR	Ring	
13	7027267	1	Carrier, Disc	
14	70021268	1	Bearing, Outer Ring	
14	70021269	1	Bearing, Inner Ring	
15	7026769	AR	Bearing, Roller	
16	7026761	2	Ring, Piston	

FIGURE 5-49. TRANSMISSION, COUPLING GROUP 4

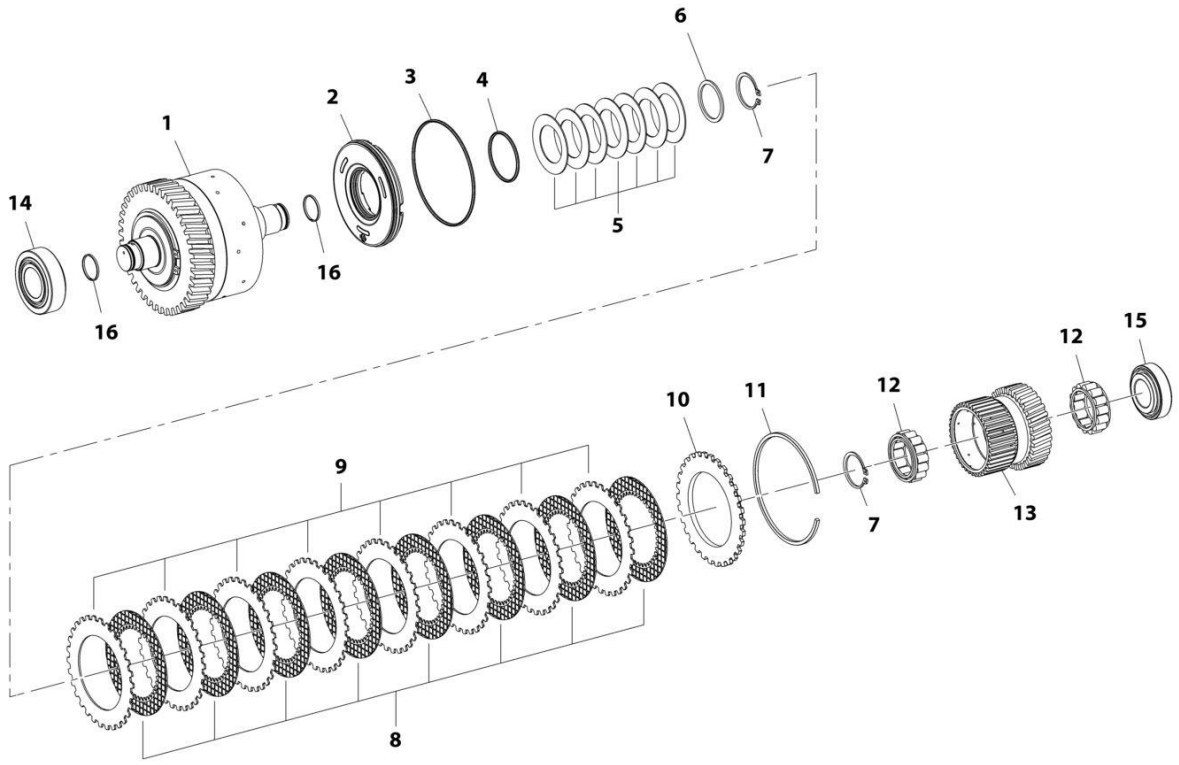
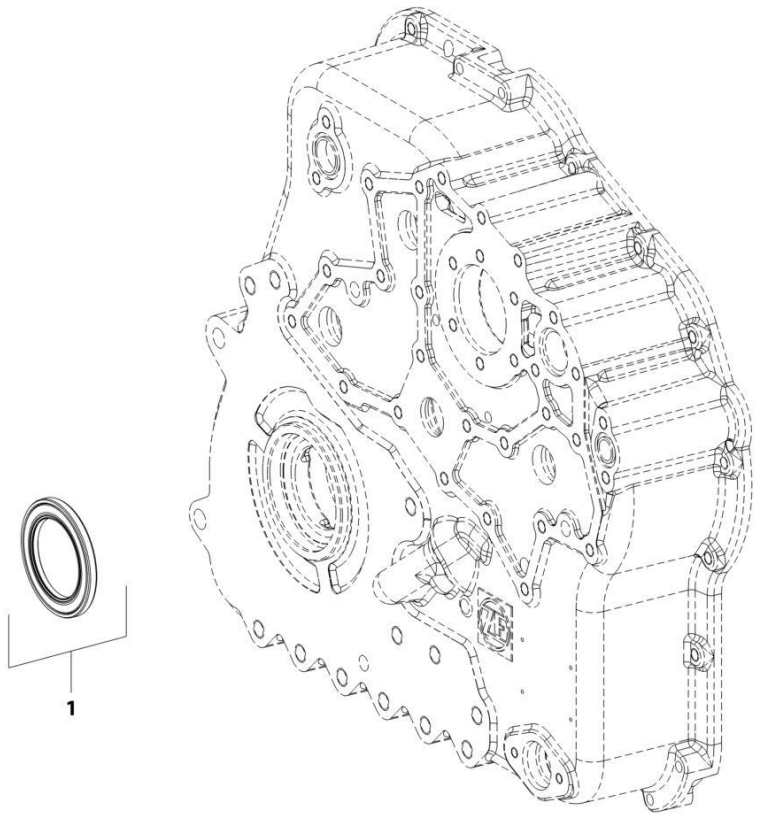


FIGURE 5-49. TRANSMISSION, COUPLING GROUP 4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, COUPLING GROUP 4	C
1	70026535	1	Coupling	
2	70022075	1	Piston	
3	1319594	1	O-Ring	
4	1319593	1	O-Ring	
5	1319595	7	Spring, Cup	
6	1319596	1	Shim	
7	10731845	2	Ring, Retaining	
8	7026758	8	Disc, Friction	
9	7026759	8	Disc, Clutch	
10	7026760	1	Shim	
11	70026527	AR	Ring, Snap 2.00	
11	70026528	AR	Ring, Snap 2.25	
11	70026529	AR	Ring, Snap 2.50	
11	7029852	AR	Ring	
11	1319602	AR	Ring	
11	7029849	AR	Ring	
11	1319601	AR	Ring	
11	7029850	AR	Ring	
11	1319600	AR	Ring	
12	1319605	AR	Bearing, Roller	
13	1319635	1	Carrier, Disc	
14	1319615	1	Bearing, Roller	
15	1319636	1	Bearing, Roller	
16	7026761	2	Ring, Piston	

FIGURE 5-50. TRANSMISSION, OUTPUT



ART_1001170171_13-C

FIGURE 5-50. TRANSMISSION, OUTPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, OUTPUT	C
1	70026536	1	Seal, Shaft	

FIGURE 5-51. TRANSMISSION, POWER TAKE-OFF

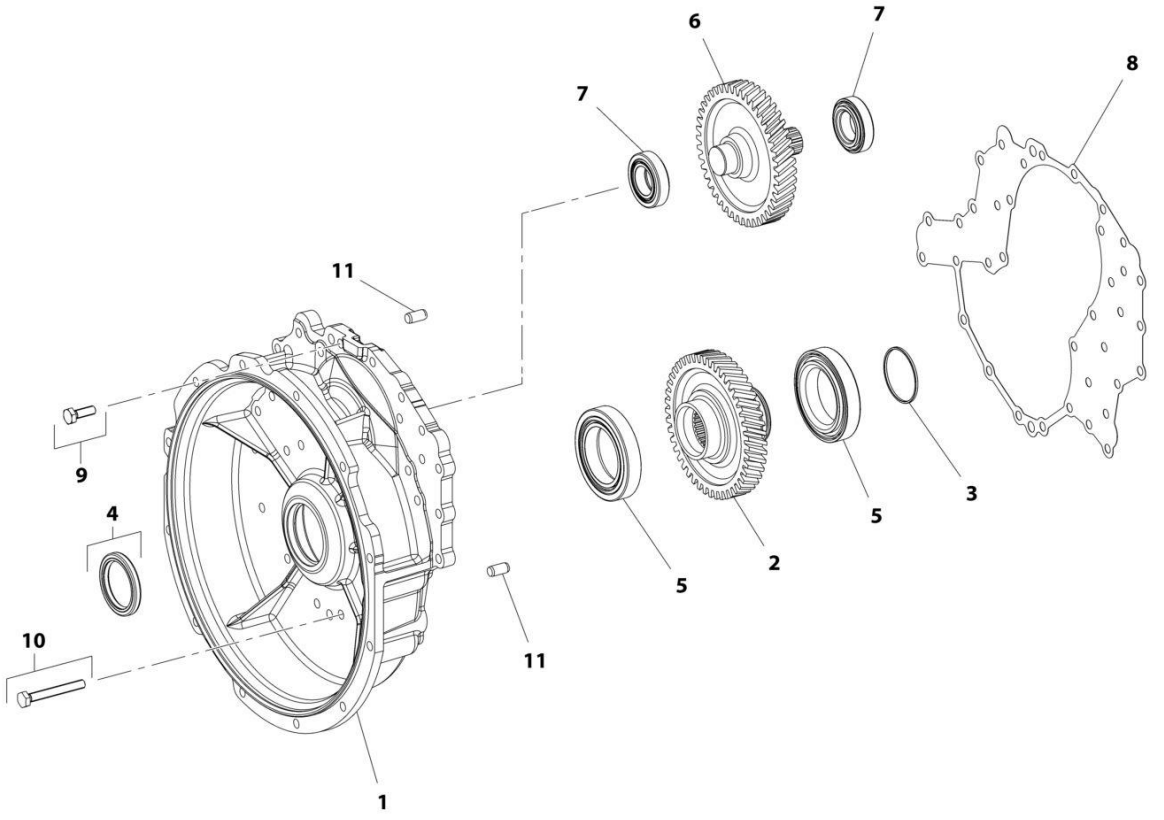


FIGURE 5-51. TRANSMISSION, POWER TAKE-OFF

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, POWER TAKE-OFF	C
1	70021526	1	Housing	
2	7026771	1	Shaft	
3	7026772	1	Ring, Piston	
4	1319576	1	Seal, Shaft	
5	7026769	AR	Bearing, Roller	
6	7026773	1	Shaft	
7	1319608	AR	Bearing, Roller	
8	7026774	1	Gasket	
9	80304394	21	Bolt, M10X30	
10	7026775	15	Bolt, M10X80	
11	1319571	2	Pin	

FIGURE 5-52. TRANSMISSION, CONTROL UNIT

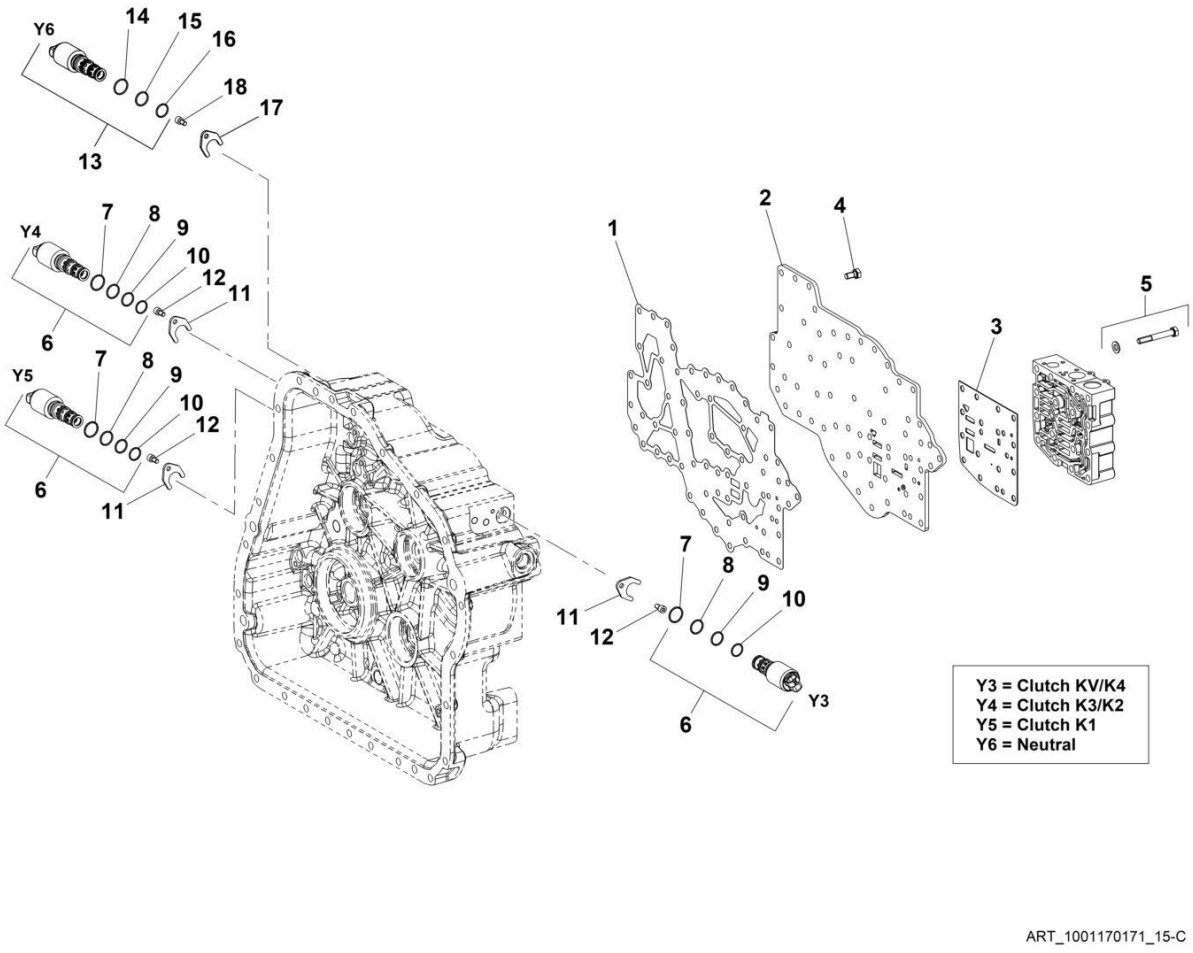


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FIGURE 5-52. TRANSMISSION, CONTROL UNIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, CONTROL UNIT	C
1	7026776	1	Gasket	
2	70026538	1	Plate	
3	70026539	1	Sheet, Intermediate	
4	7026780	46	Bolt, M8X16	
5	7026781	16	Bolt, M8X60 (includes washer)	
5	10732095	16	Washer	
6	8036529	3	Valve, Solenoid (includes items 7 thru 10)	
7	N.S.S.	3	O-Ring	
8	N.S.S.	3	O-Ring	
9	N.S.S.	3	O-Ring	
10	N.S.S.	3	O-Ring	
11	7029267	3	Bracket	
12	70026544	3	Bolt, M6X12	
13	8036528	1	Valve, Solenoid (includes items 14 thru 16)	
14	N.S.S.	1	O-Ring	
15	N.S.S.	1	O-Ring	
16	N.S.S.	1	O-Ring	
17	7029267	1	Bracket	
18	70026544	1	Bolt, M6X12	

FIGURE 5-53. TRANSMISSION, CLUTCH GROUP 2

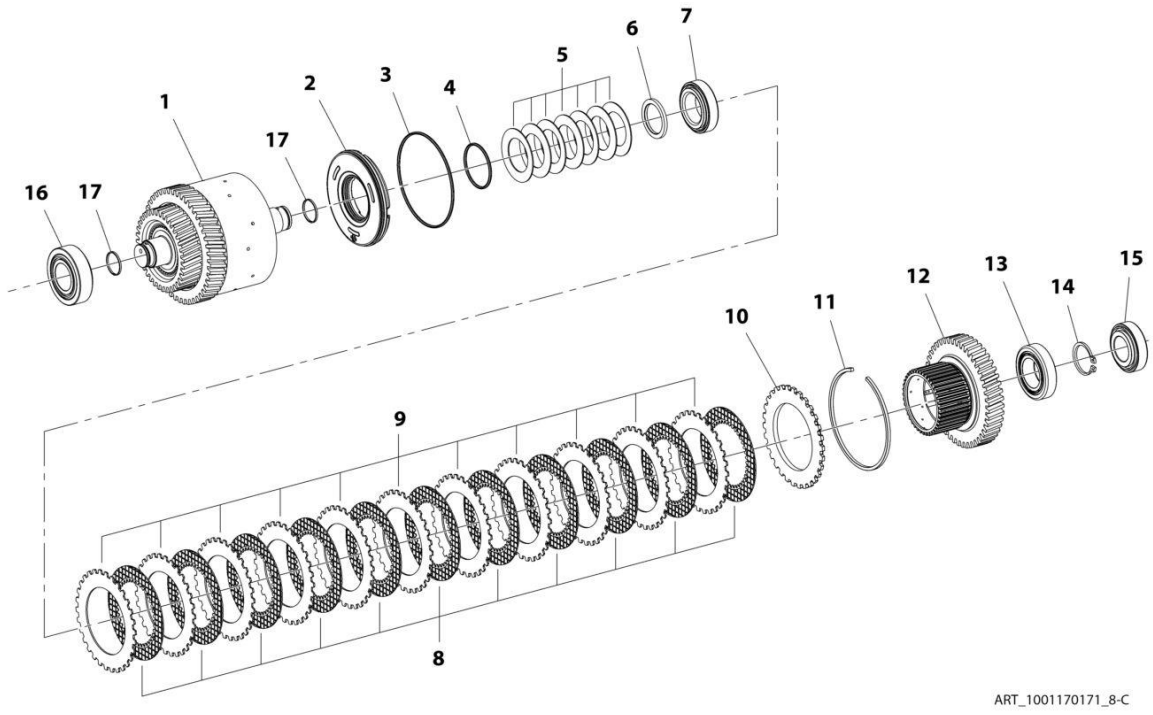

FIGURE 5-53. TRANSMISSION, CLUTCH GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, CLUTCH GROUP 2	C
1	7026762	1	Coupling	
2	70022075	1	Piston	
3	1319594	1	O-Ring	
4	1319593	1	O-Ring	
5	1319595	7	Spring, Cup	
6	1319617	1	Shim	
7	1319618	AR	Bearing, Roller	
8	7026758	11	Disc, Friction	
9	7026759	11	Disc, Static	
10	7026760	1	Shim	
11	70026527	AR	Ring, Snap 2.00	
11	70026528	AR	Ring, Snap 2.25	
11	70026529	AR	Ring, Snap 2.50	
11	7029852	AR	Ring	
11	1319602	AR	Ring	
11	7029849	AR	Ring	
11	1319601	AR	Ring	
11	7029850	AR	Ring	
11	1319600	AR	Ring	
12	1319638	1	Carrier, Disc	
13	1319620	1	Bearing, Roller	
14	1319632	AR	Ring	
14	1319631	AR	Ring	
14	1319630	AR	Ring	
14	1319629	AR	Ring	
14	1319628	AR	Ring	
14	1319627	AR	Ring	
14	1319626	AR	Ring	
14	1319625	AR	Ring	
14	1319624	AR	Ring	
14	1319623	AR	Ring	
14	1319622	AR	Ring	
14	1319621	AR	Ring	
15	1319615	1	Bearing, Roller	
16	1319636	1	Bearing, Roller	
17	7026761	2	Ring, Piston	

FIGURE 5-54. TRANSMISSION, SHIFT SYSTEM

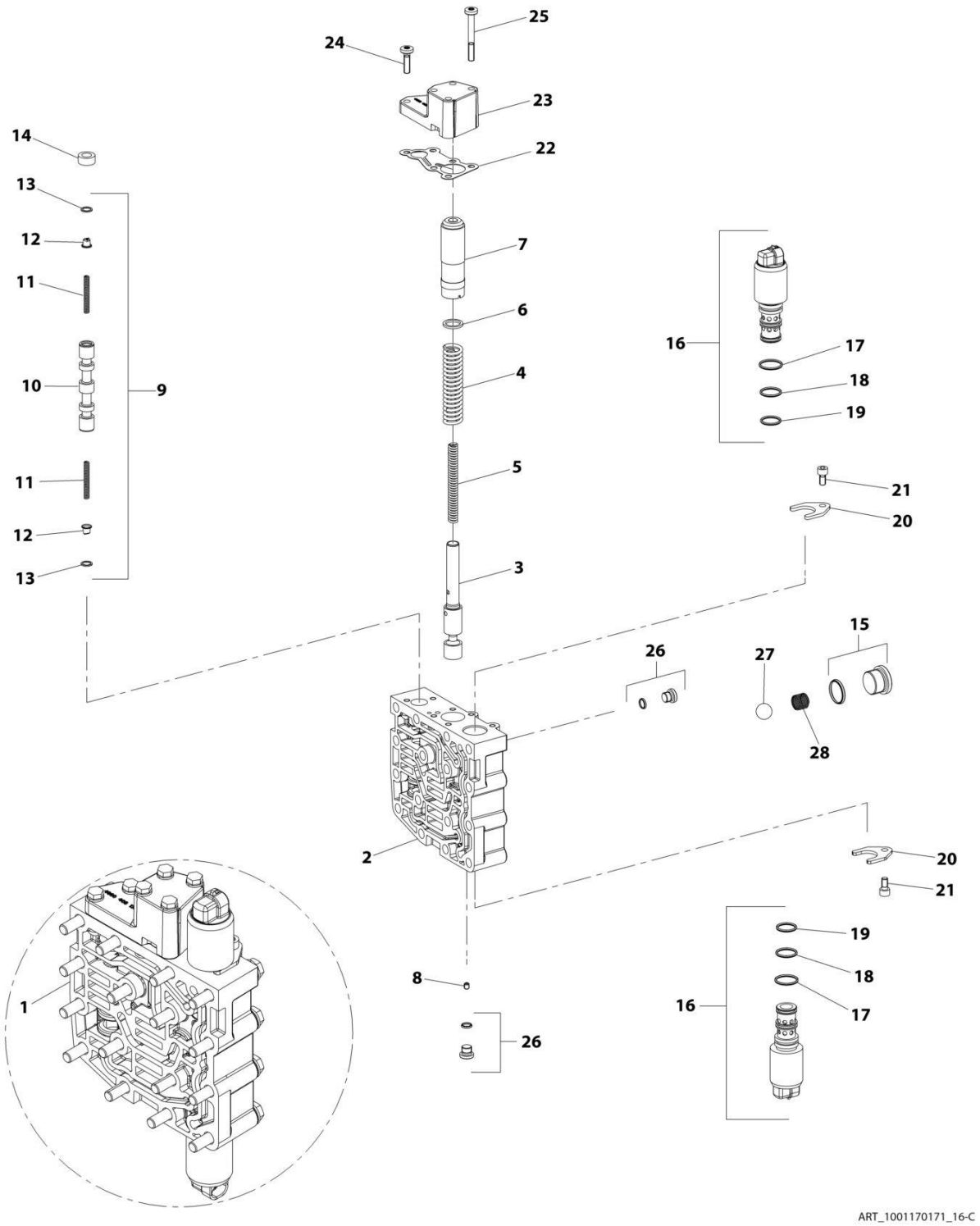

FIGURE 5-54. TRANSMISSION, SHIFT SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, SHIFT SYSTEM	C
1	70026561	1	Assembly, Shift System (includes all items)	
2	70026546	1	Housing, Valve	
3	70026547	1	Piston, Control	
4	1319683	1	Spring	
5	1319684	1	Spring	
6	1319689	AR	Washer	
6	1319688	AR	Washer	
6	1319687	AR	Washer	
6	1319686	AR	Washer	
6	1319685	AR	Washer	
7	70026548	1	Piston	
8	70026549	1	Nozzle	
9	1319694	1	Assembly, Valve (includes items 10 thru 13)	
10	N.S.S.	1	Piston	
11	N.S.S.	2	Spring, Compression	
12	N.S.S.	2	Sleeve, Spring	
13	N.S.S.	2	Ring, Snap	
14	7026787	1	Spacer	
15	70026554	1	Plug, Screw (includes o-ring)	
15	70000656	1	O-Ring	
16	8036528	2	Valve, Solenoid (includes items 17 thru 19)	
17	N.S.S.	2	O-Ring	
18	N.S.S.	2	O-Ring	
19	N.S.S.	2	O-Ring	
20	7029267	2	Bracket	
21	70026544	2	Bolt, M6X12	
22	7026788	1	Gasket	
23	7026789	1	Cover	
24	70026555	2	Screw, Torx M6X23	
25	70026556	4	Screw, Torx M6X52	
26	70026517	2	Plug, Screw (includes o-ring)	
26	10731709	2	O-Ring	
27	10732071	1	Ball	
28	10732072	1	Spring	

FIGURE 5-55. TRANSMISSION, PRESSURE REGULATOR

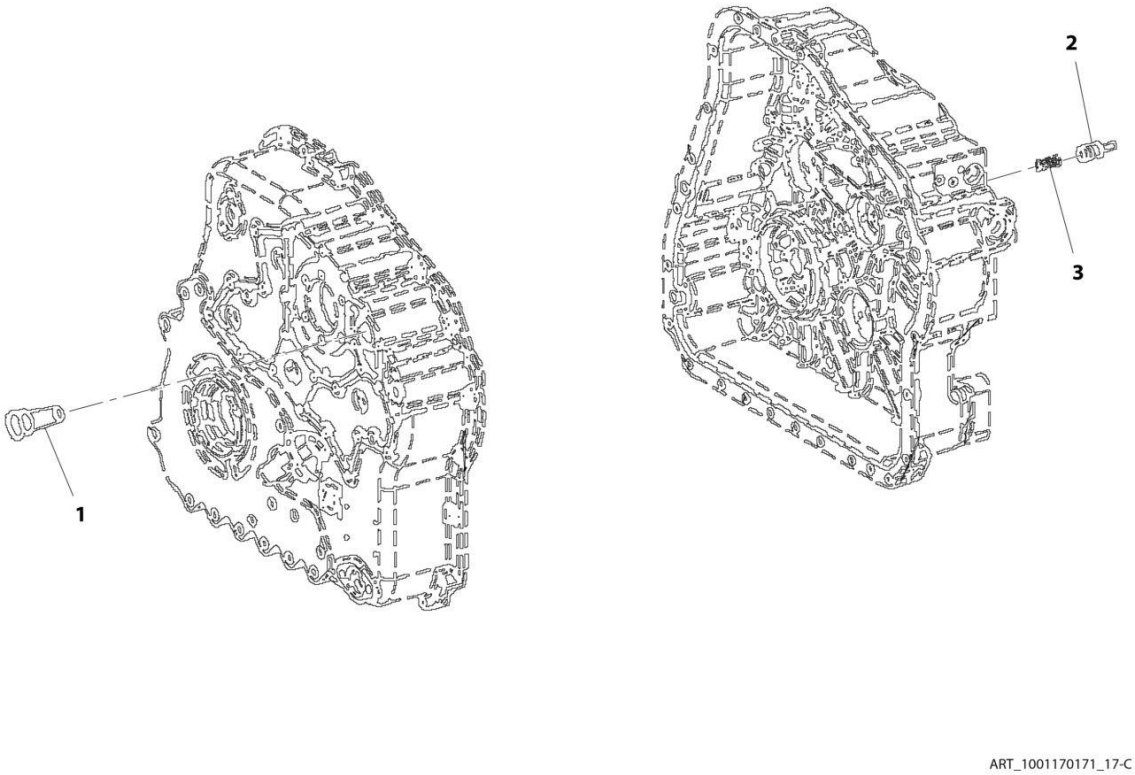

FIGURE 5-55. TRANSMISSION, PRESSURE REGULATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, PRESSURE REGULATOR	C
1	7026782	1	Valve	
2	7026783	1	Piston	
3	7026784	1	Spring	

FIGURE 5-56. TRANSMISSION, ACCESSORIES GROUP 1

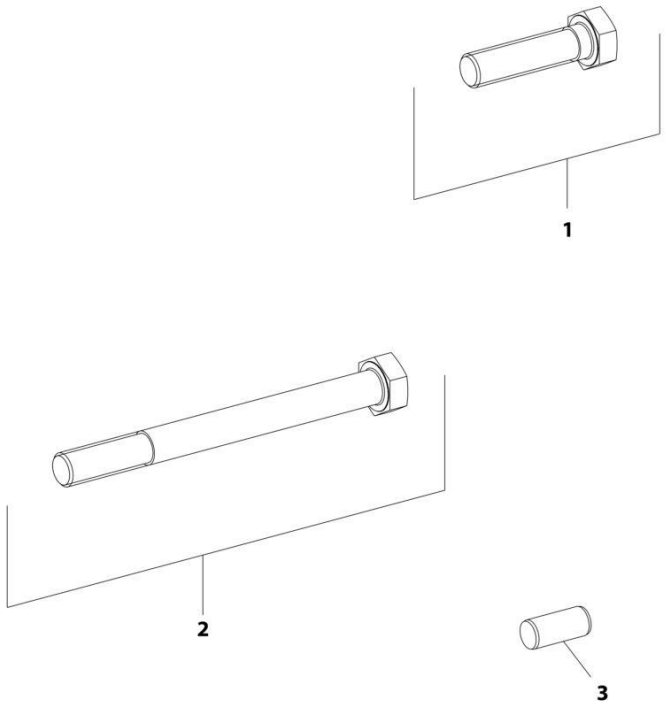

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FIGURE 5-56. TRANSMISSION, ACCESSORIES GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, ACCESSORIES GROUP 1	C
1	7027254	12	Bolt, M14X55	
2	7027255	2	Bolt, M14X150	
3	1319571	1	Pin	

FIGURE 5-57. TRANSMISSION, PERIPHERALS GROUP 1

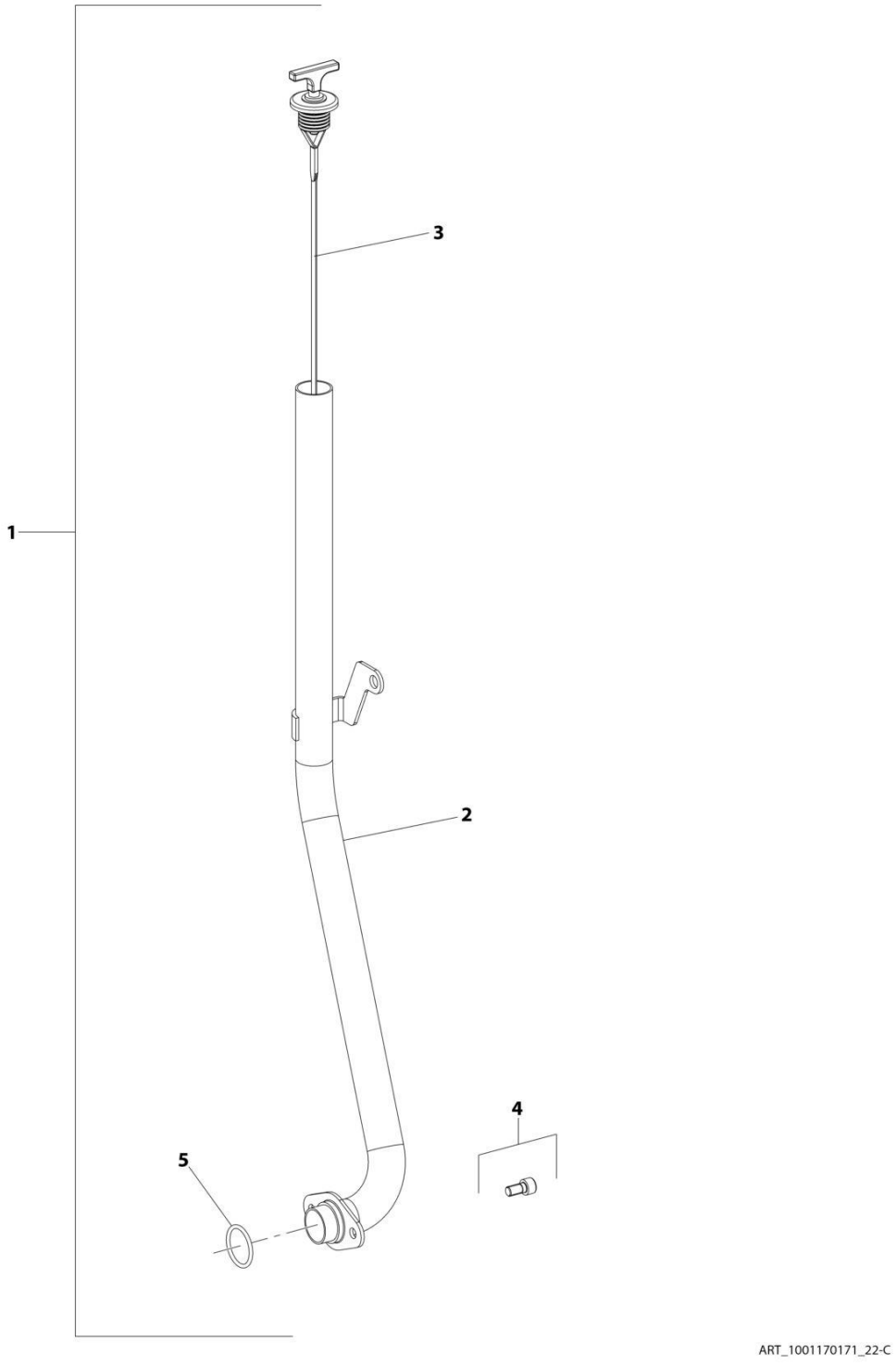

FIGURE 5-57. TRANSMISSION, PERIPHERALS GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, PERIPHERALS GROUP 1	C
1	1001095738	1	Kit, Oil Level Dipstick (includes items 2 & 3)	
2	1001095744	1	Tube, Oil Level	
3	8841322	1	Dipstick, Oil Level	
4	70026516	2	Bolt, M8X16	
5	70023885	1	O-Ring	

FIGURE 5-58. TRANSMISSION, PERIPHERALS GROUP 2

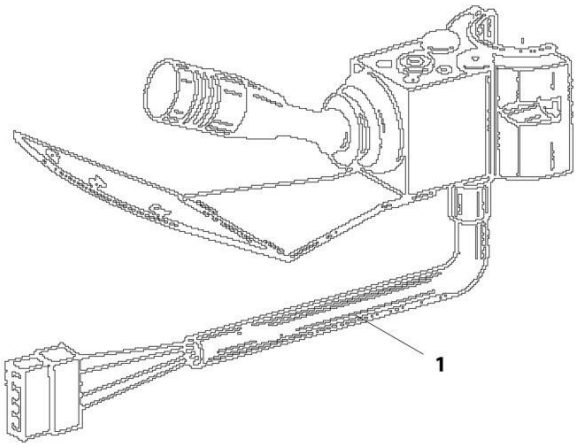

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FIGURE 5-58. TRANSMISSION, PERIPHERALS GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, PERIPHERALS GROUP 2	C
1	70026558	1	Selector, Range	

FIGURE 5-59. TRANSMISSION, ACCESSORIES GROUP 2

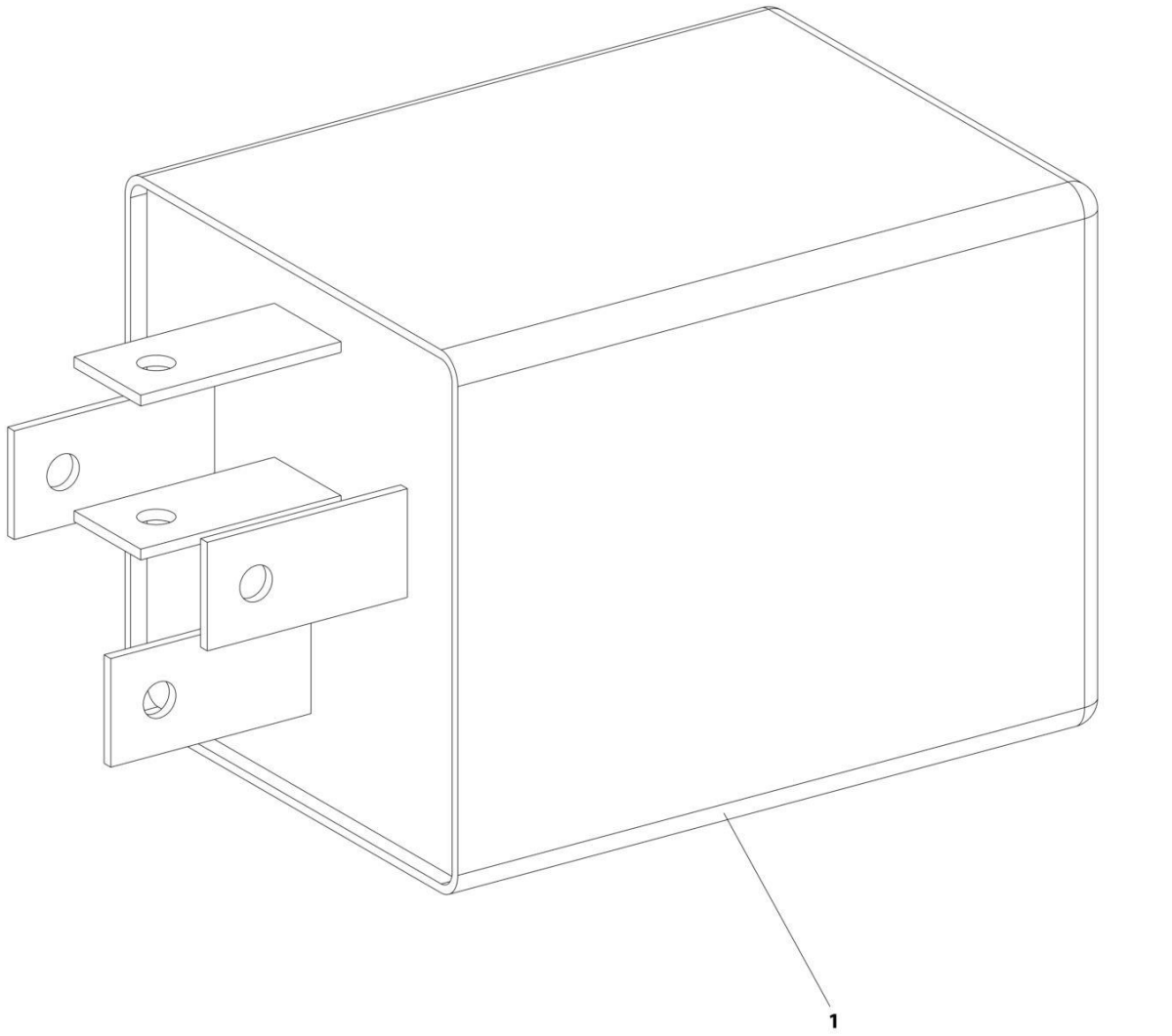
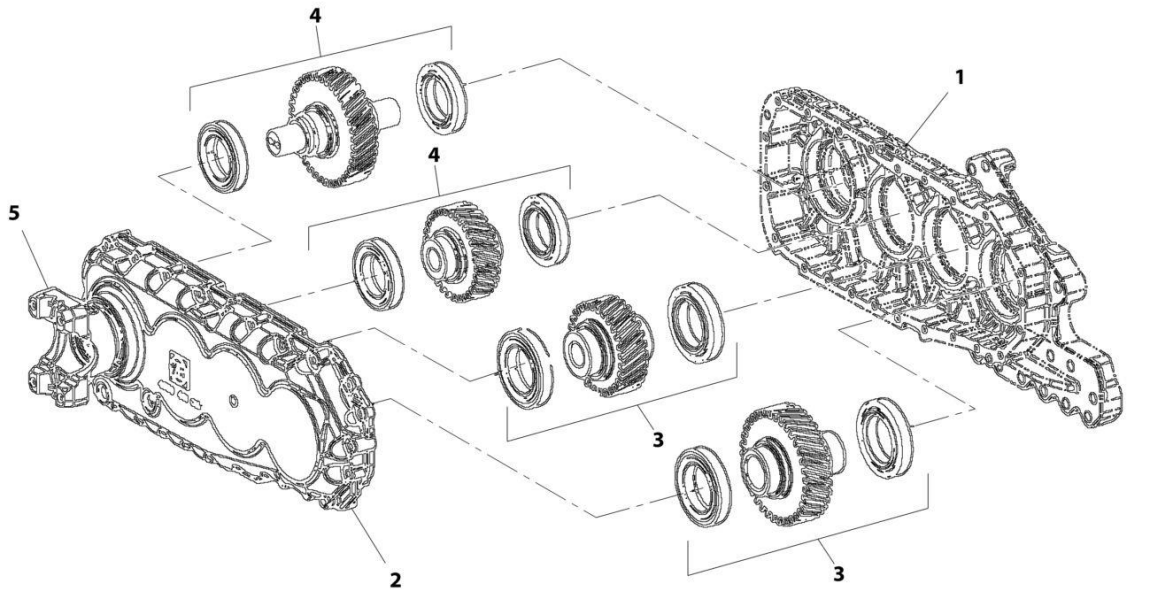


FIGURE 5-59. TRANSMISSION, ACCESSORIES GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, ACCESSORIES GROUP 2	C
1	70026559	1	Relay	

FIGURE 5-60. TRANSMISSION, TRANSFER BOX



ART_1001170171_25-C

FIGURE 5-60. TRANSMISSION, TRANSFER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, TRANSFER BOX	C
	70023502	1	Box Transfer (includes all items)	
1	N.S.S.	Ref	Housing 1, Transfer Box (See Separate Breakdown in this Section)	
2	N.S.S.	Ref	Housing 2, Transfer Box (See Separate Breakdown in this Section)	
3	N.S.S.	Ref	Input, Transfer Box (See Separate Breakdown in this Section)	
4	N.S.S.	Ref	Output 1, Transfer Box (See Separate Breakdown in this Section)	
5	N.S.S.	Ref	Output 2, Transfer Box (See Separate Breakdown in this Section)	

FIGURE 5-61. TRANSMISSION, TRANSFER BOX HOUSING 1

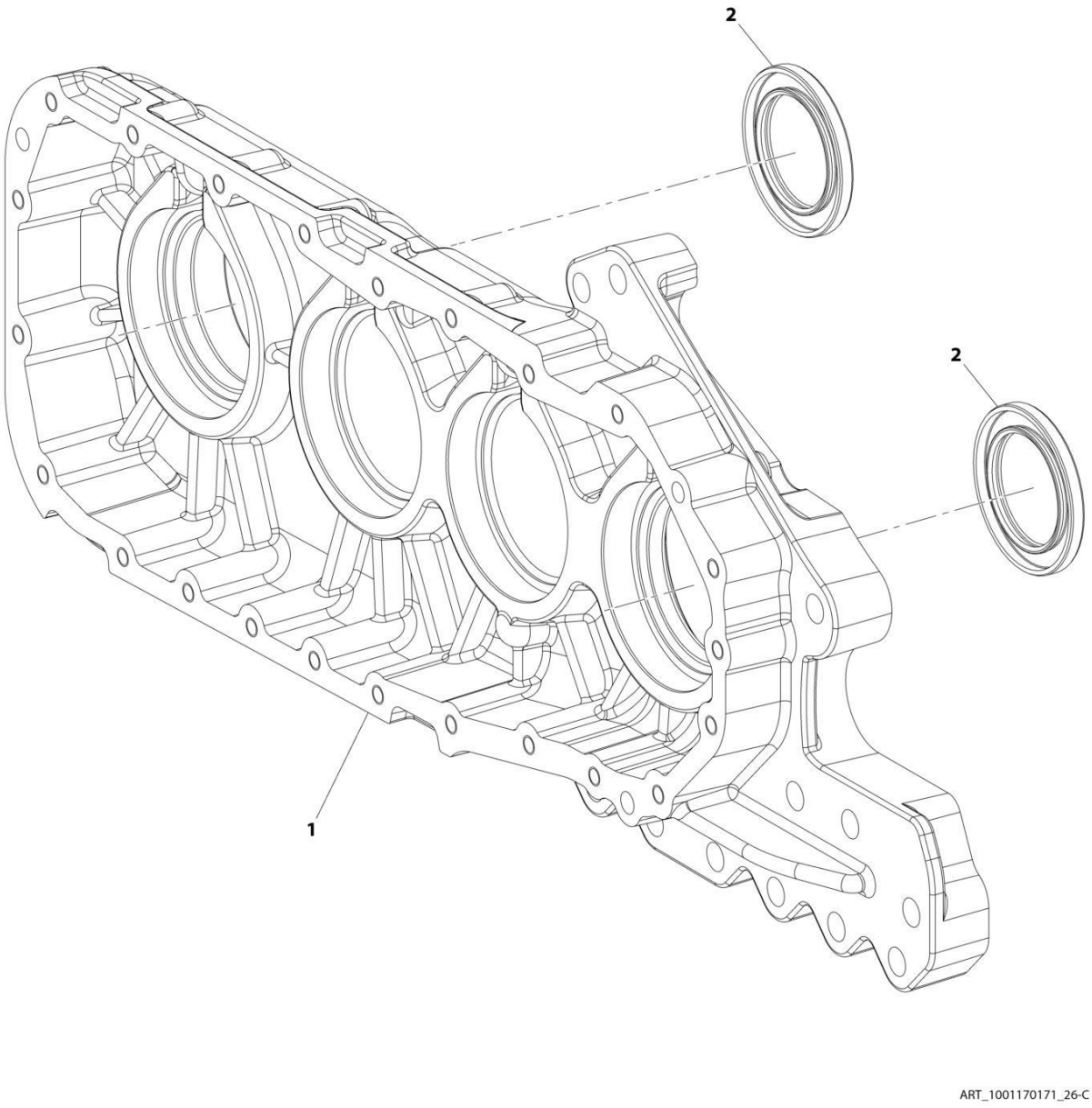


FIGURE 5-61. TRANSMISSION, TRANSFER BOX HOUSING 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, TRANSFER BOX HOUSING 1	C
1	70023474	1	Housing, Transfer Box	
2	70026536	2	Seal, Shaft	

FIGURE 5-62. TRANSMISSION, TRANSFER BOX HOUSING 2

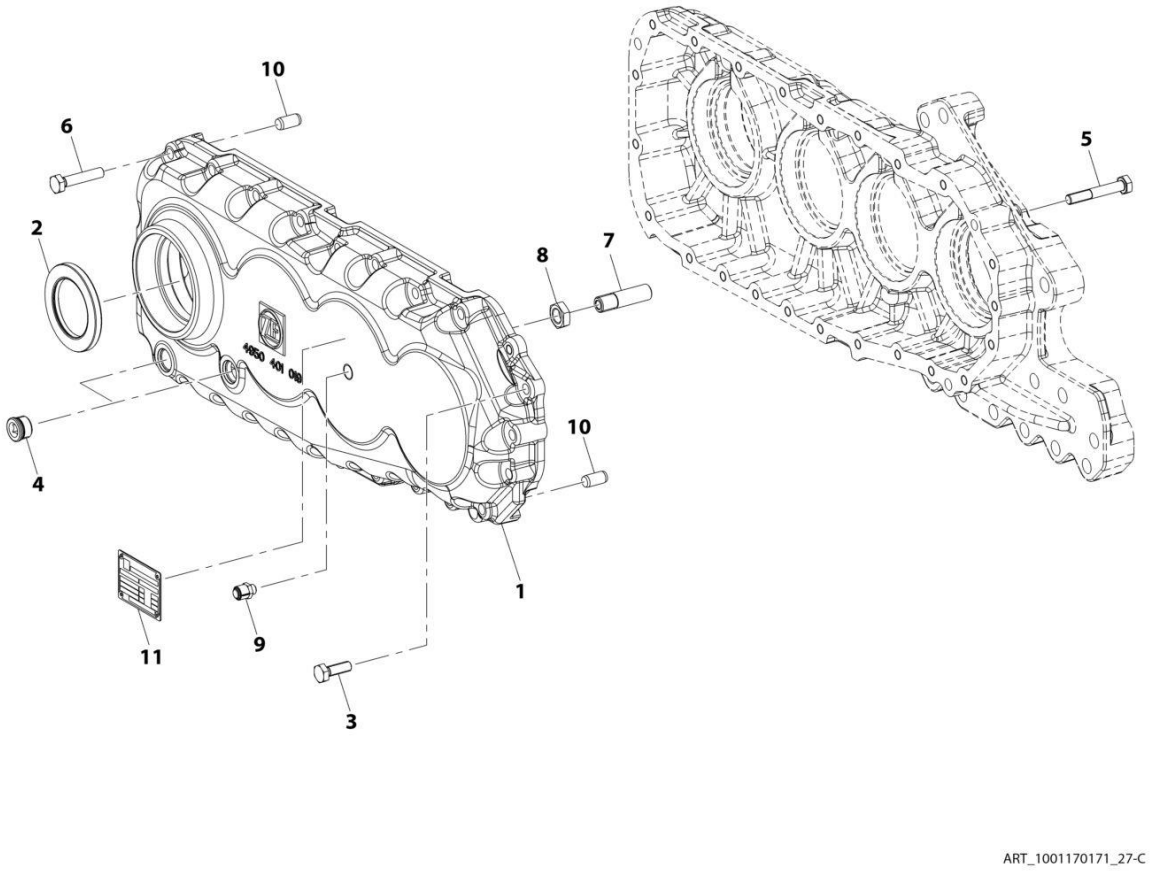
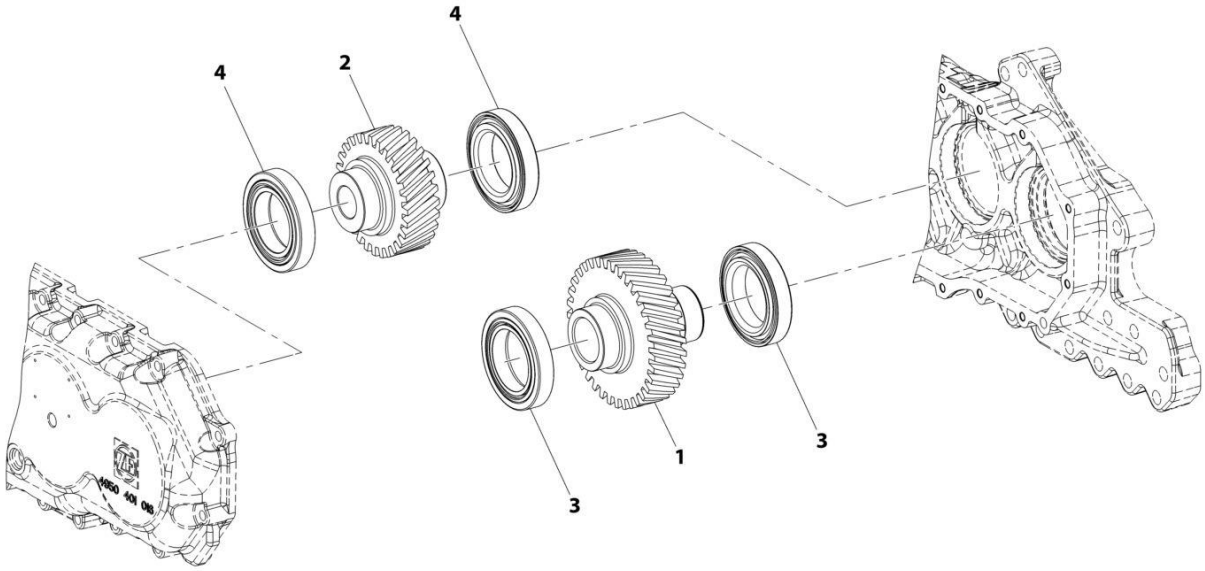


FIGURE 5-62. TRANSMISSION, TRANSFER BOX HOUSING 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, TRANSFER BOX HOUSING 2	C
1	70023475	1	Housing	
2	70026536	1	Seal, Shaft	
3	70023800	1	Bolt, M10X30	
4	70023404	2	Plug	
5	70023476	1	Bolt, M10X65	
6	70023801	22	Bolt, M10X50	
7	7026577	1	Sleeve	
8	7026578	1	Nut, M16	
9	1319436	1	Breather	
10	1319571	2	Pin	
11	N.S.S.	1	Plate, Serial Number	

FIGURE 5-63. TRANSMISSION, TRANSFER BOX HOUSING INPUT

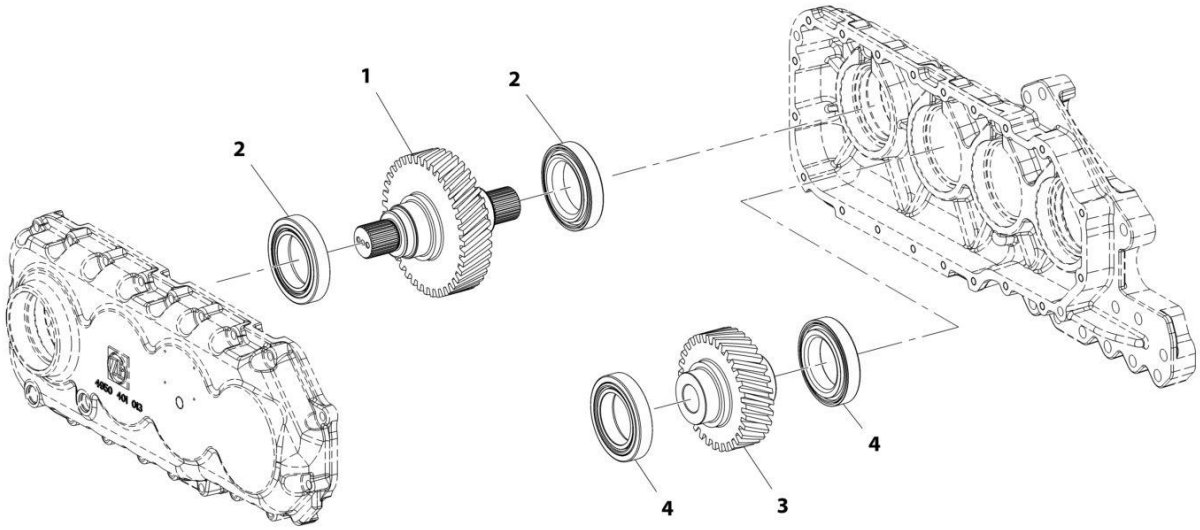


ART_1001170171_28-C

FIGURE 5-63. TRANSMISSION, TRANSFER BOX HOUSING INPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, TRANSFER BOX HOUSING INPUT	C
1	7027269	1	Shaft	
2	7027270	1	Gear, Idler	
3	7026769	2	Bearing, Roller	
4	1320748	2	Cup, Tapered Roller	
4	1320754	2	Cone, Tapered Roller	

FIGURE 5-64. TRANSMISSION, TRANSFER BOX HOUSING OUTPUT 1



ART_1001170171_29-C

FIGURE 5-64. TRANSMISSION, TRANSFER BOX HOUSING OUTPUT 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, TRANSFER BOX HOUSING OUTPUT 1	C
1	7027271	1	Gear, Output	
2	7026769	2	Bearing, Roller	
3	7027272	1	Gear, Idler	
4	1320748	2	Cup, Tapered Roller	
4	1320754	2	Cone, Tapered Roller	

FIGURE 5-65. TRANSMISSION, TRANSFER BOX HOUSING OUTPUT 2

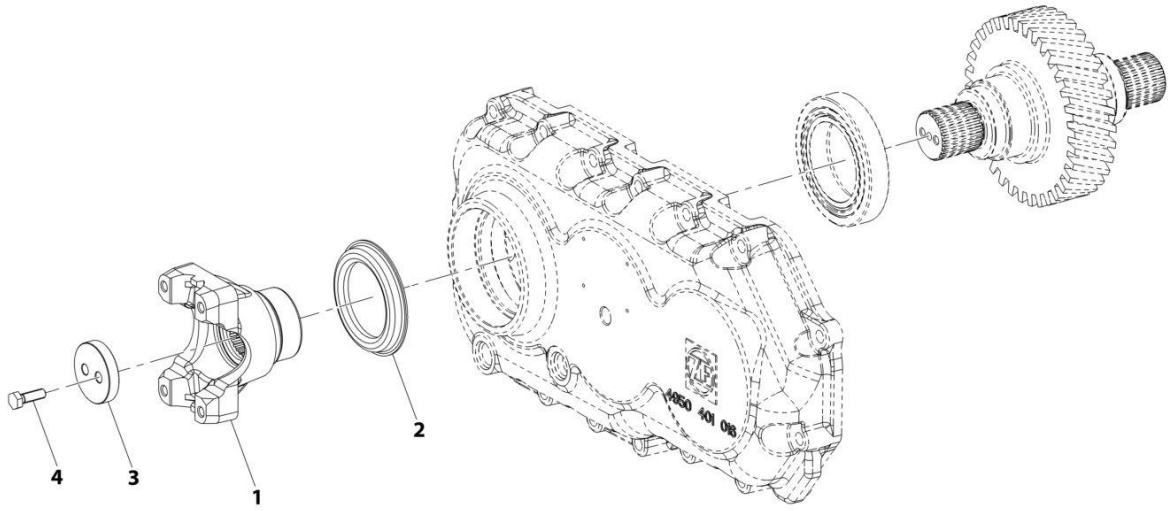


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FIGURE 5-65. TRANSMISSION, TRANSFER BOX HOUSING OUTPUT 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, TRANSFER BOX HOUSING OUTPUT 2	C
1	7027273	2	Flange (one per side)	
2	1319647	2	Sheet, Screen (one per side)	
3	1319648	2	Washer, (one per side)	
4	10731959	4	Bolt, M8X25 (two per side)	

FIGURE 5-66. TRANSMISSION, PRESSURE OIL PUMP

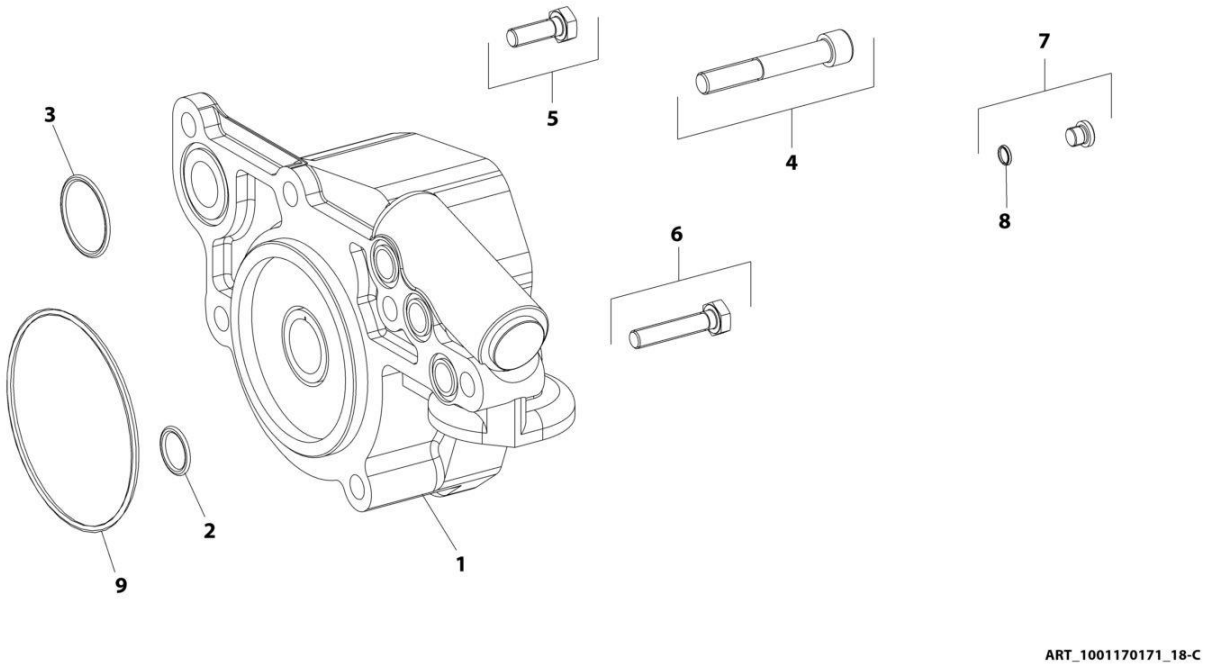


FIGURE 5-66. TRANSMISSION, PRESSURE OIL PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, PRESSURE OIL PUMP	C
1	7026791	1	Pump	
2	7026792	3	O-Ring	
3	1319719	1	O-Ring	
4	7026793	4	Bolt, M12X80	
5	80304394	1	Bolt, M10X30	
6	7026794	1	Bolt, M10X50	
7	70026517	2	Plug, Screw	
8	10731709	2	O-Ring	
9	8036250	1	O-RING (located between oil pump and transmission)	

FIGURE 5-67. TRANSMISSION, INDUCTIVE TRANSMITTER

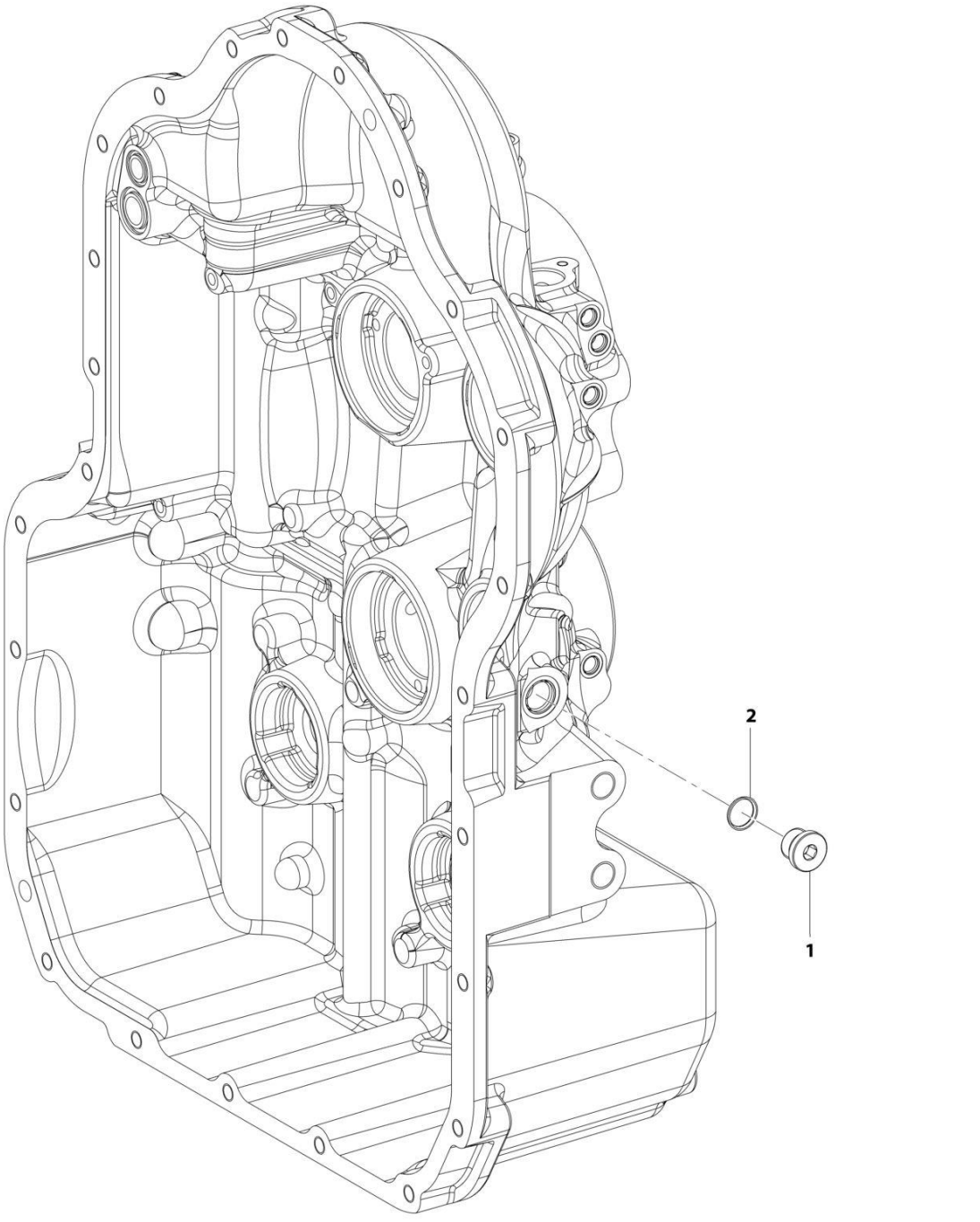


FIGURE 5-67. TRANSMISSION, INDUCTIVE TRANSMITTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, INDUCTIVE TRANSMITTER	C
1	70024895	1	Plug, Screw (includes o-ring)	
2	N.S.S.	1	O-Ring	

FIGURE 5-68. TRANSMISSION, FILTER

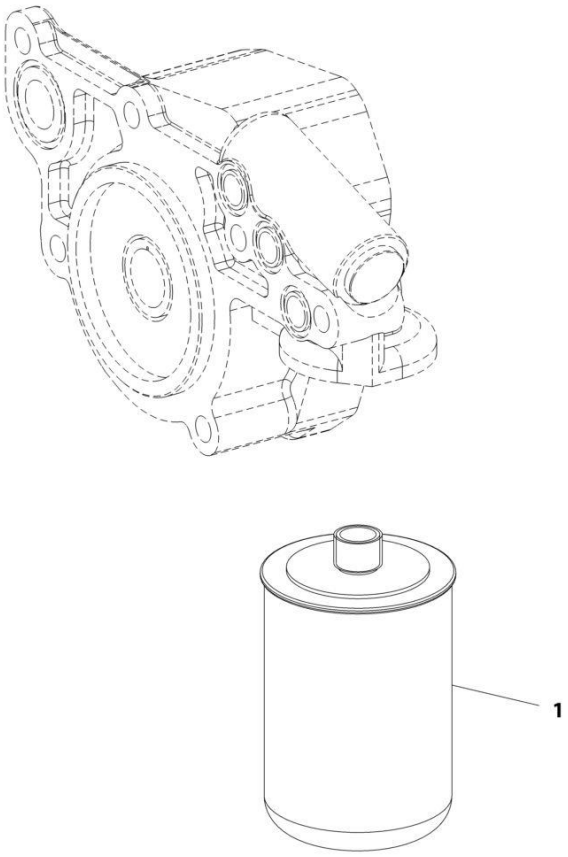


FIGURE 5-68. TRANSMISSION, FILTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170171	Ref	TRANSMISSION, FILTER	C
1	1319726	1	Filter	

FIGURE 5-69. FENDER INSTALLATION

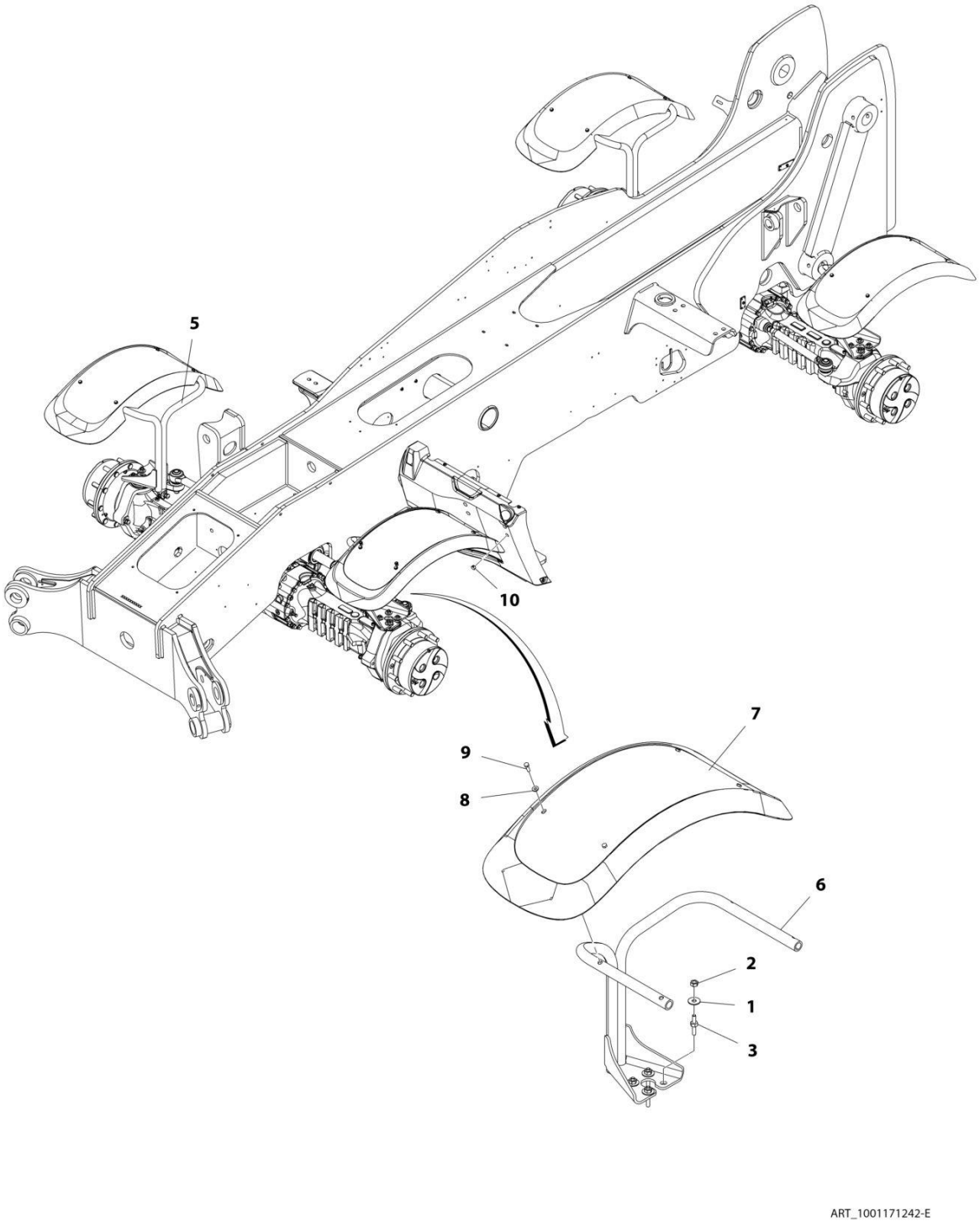


FIGURE 5-69. FENDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171242	Ref	Fender Installation	E
1	4812102	16	Washer, M12	
2	91513266	16	Nut, M12X1.25	
3	91514118	16	Stud, Fender	
5	1001202513	2	RH Bracket	
6	1001202512	2	LH Bracket	
7	1001168264	4	Fender	
8	1001202786	16	Washer	
9	0760812	16	Screw, M8X25	
10	1001208338	4	Plug	

FIGURE 5-70. FENDER ASSEMBLY (RH)

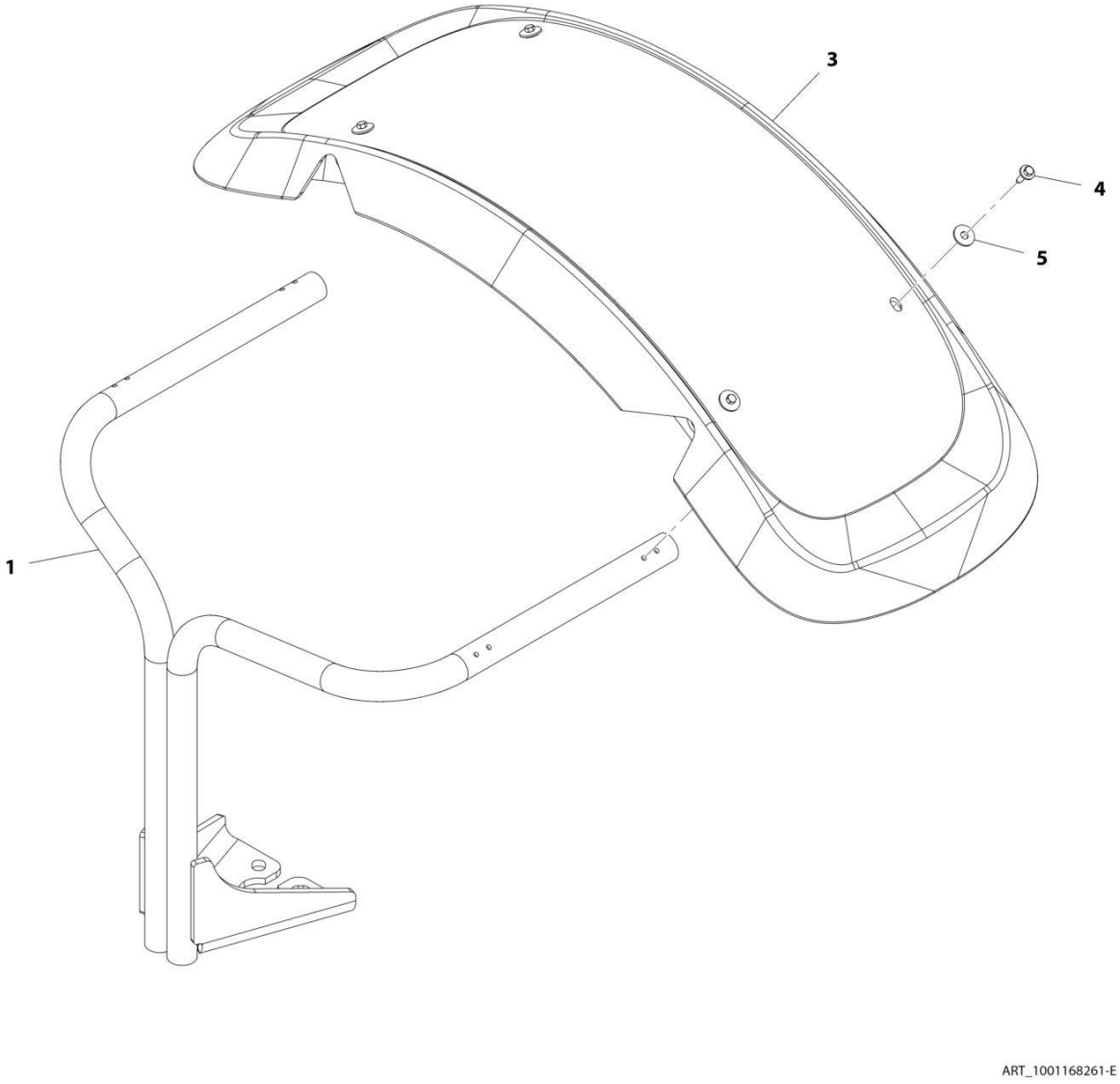


FIGURE 5-70. FENDER ASSEMBLY (RH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168261	Ref	RH Fender Assembly	E
1	1001168178	1	Bracket	
3	1001168264	1	Fender	
4	1001201904	4	Screw	
5	1001201905	4	Washer	

FIGURE 5-71. FENDER ASSEMBLY (LH)

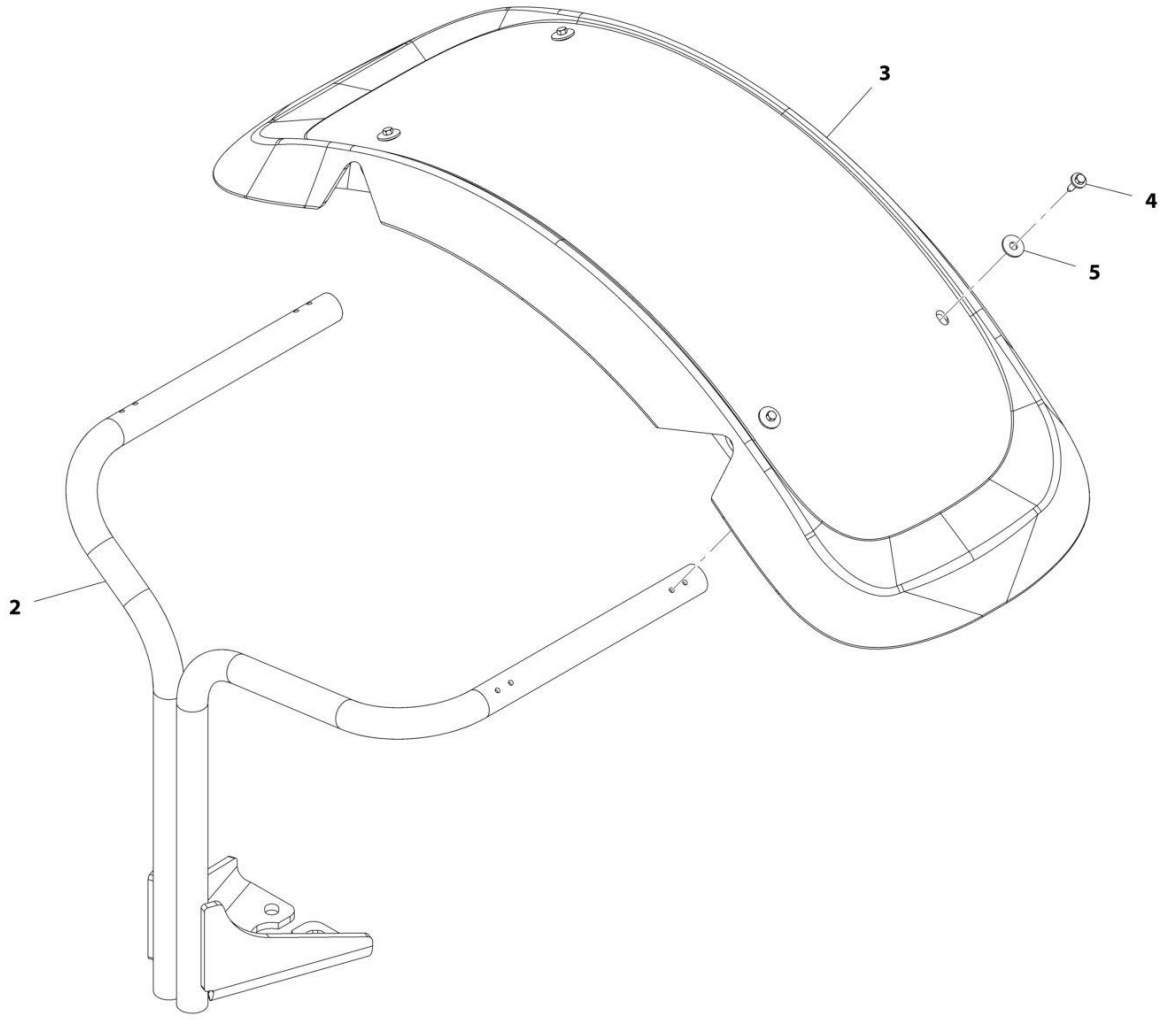


FIGURE 5-71. FENDER ASSEMBLY (LH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168262	Ref	LH Fender Assembly	E
2	1001168182	1	Bracket	
3	1001168264	1	Fender	
4	1001201904	4	Screw	
5	1001201905	4	Washer	

FIGURE 5-72. TIRE/WHEEL SET 13-24 16PR - AIR

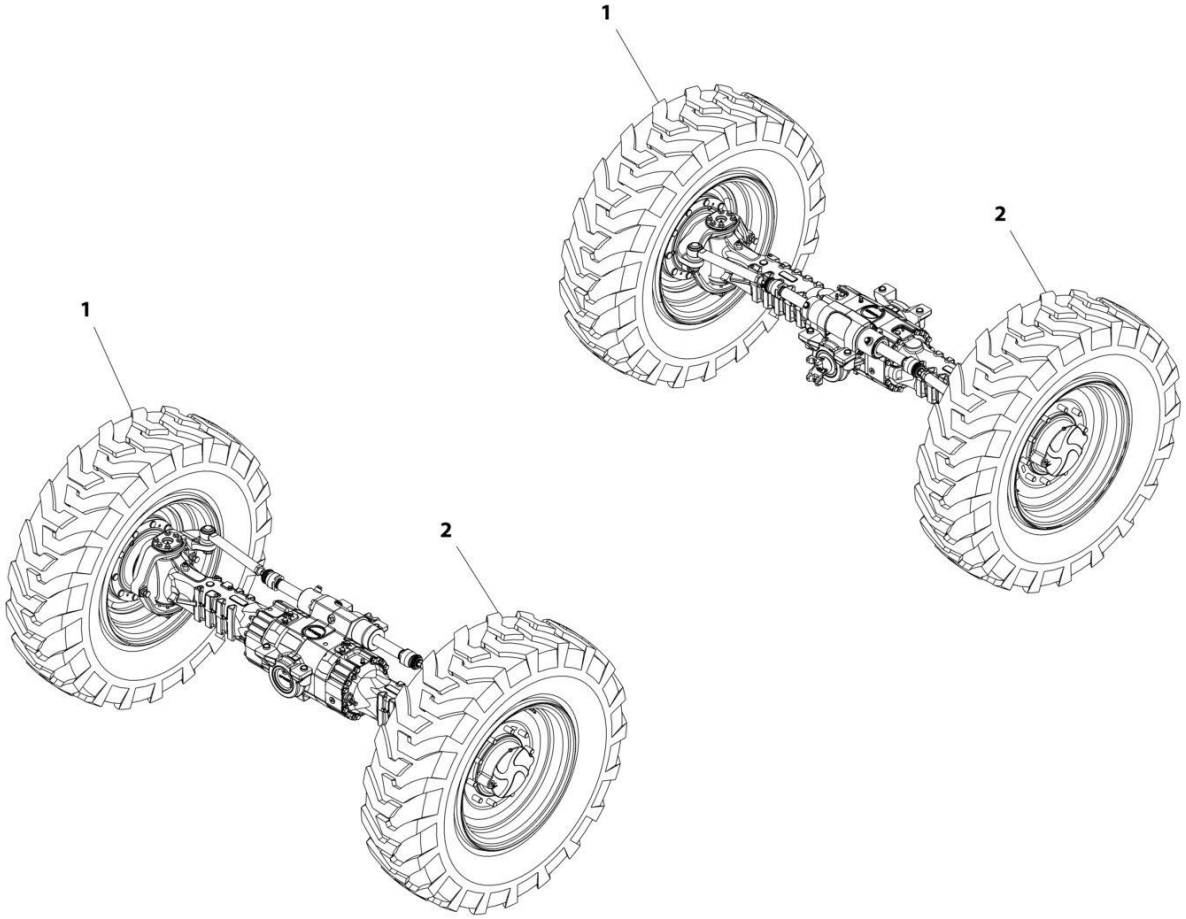


FIGURE 5-72. TIRE/WHEEL SET 13-24 16PR - AIR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200151	1	Tire/Wheel Set 13-24 16PR - Air	A
1	1001199808	2	Assembly, Tire/Wheel Right 13-24 16PR - Air	
1	8786514	1	Valve, Stem	
1	91473206	1	Wheel, 24x9.00 GR	
1	1001199807	1	Tire, 13.00x24 TG 16 PLY G2, BIAS	
2	1001199810	2	Assembly, Tire/Wheel Left 13-24 16PR - Air	
2	8786514	1	Valve, Stem	
2	91473206	1	Wheel, 24x9.00 GR	
2	1001199807	1	Tire, 13.00x24 TG 16 PLY G2, BIAS	

FIGURE 5-73. TIRE/WHEEL SET 13-24 12PR - FOAM

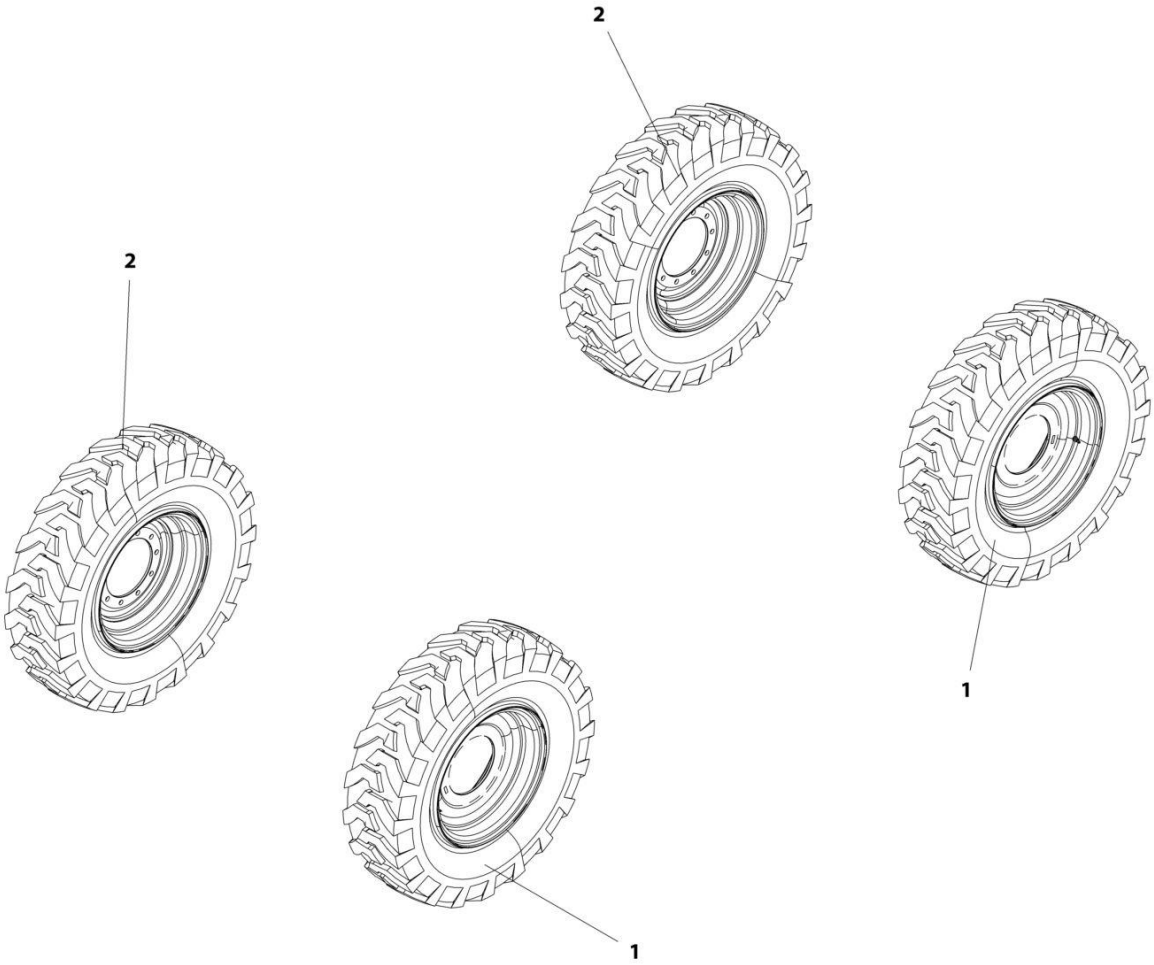


FIGURE 5-73. TIRE/WHEEL SET 13-24 12PR - FOAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4520370	Ref	Tire/Wheel Set 13-24 12PR - Foam	B
		Ref	Note: Assemblies require ballast/foam filling to manufacture's specifications prior to installing on machine. Refer to Operation & Safety or Service & Maintenance Manuals.	
		Ref	Purchase individual tire and/or wheel only if able to foam fill tire & wheel assembly, otherwise purchase complete assembly.	
1	91475054	2	Tire/Wheel Assembly - RH 13-24 G-2 - Foam	
1	8780031	2	Tire, 13.00x24 TG 16 PLY G2, BIAS (1 Per Assembly)	
1	8786514	2	Valve, Stem (1 Per Assembly)	
1	91473206	2	Wheel, 24x9.00 GR (1 Per Assembly)	
2	91475055	2	Tire/Wheel Assembly - LH 13-24 G-2 - Foam	
2	8780031	2	Tire, 13.00x24 TG 16 PLY G2, BIAS (1 Per Assembly)	
2	8786514	2	Valve, Stem (1 Per Assembly)	
2	91473206	2	Wheel, 24x9.00 GR (1 Per Assembly)	

FIGURE 5-74. TIRE/WHEEL SET 13-24 - SOILD

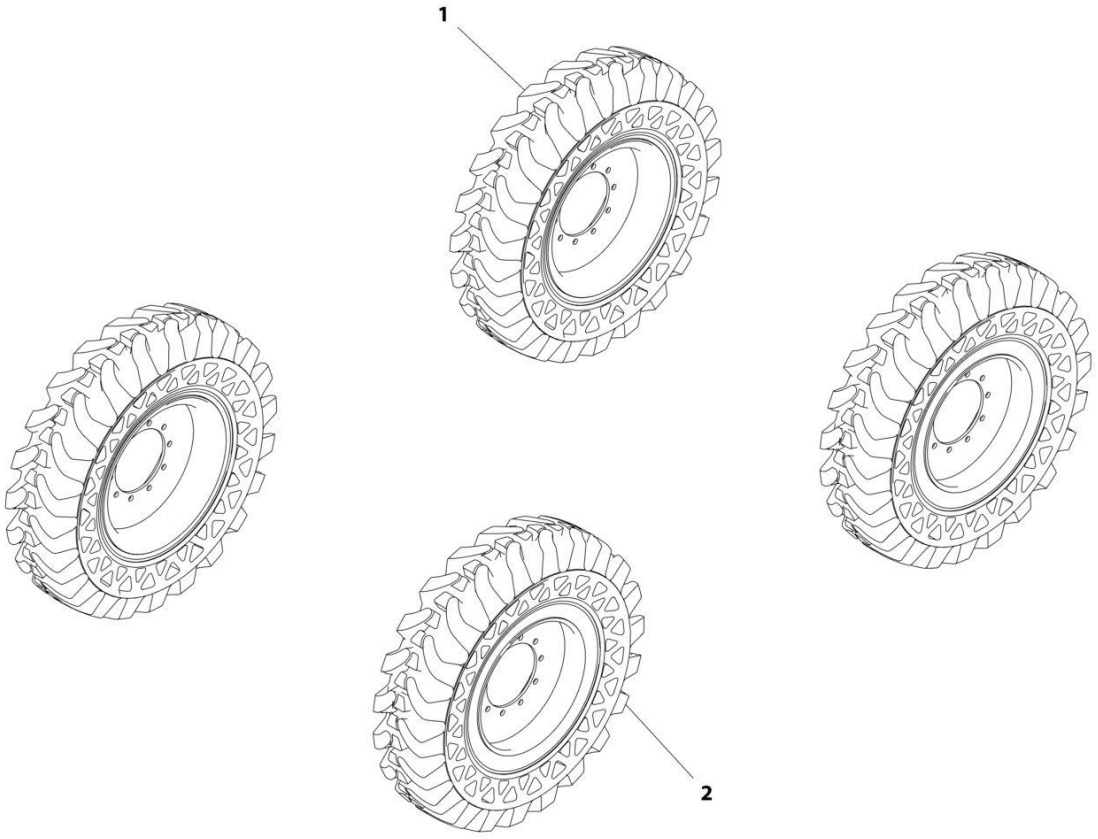


FIGURE 5-74. TIRE/WHEEL SET 13-24 - SOILD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151106	1	Tire/Wheel Set 13-24 - Solid	A
1	1001151097	2	Tire/Wheel Left 13-24 .219 - Offset	
2	1001151098	2	Tire/Wheel Right 13-24 .219 - Offset	

FIGURE 5-75. TIRE/WHEEL SET 370/75-28 - AIR

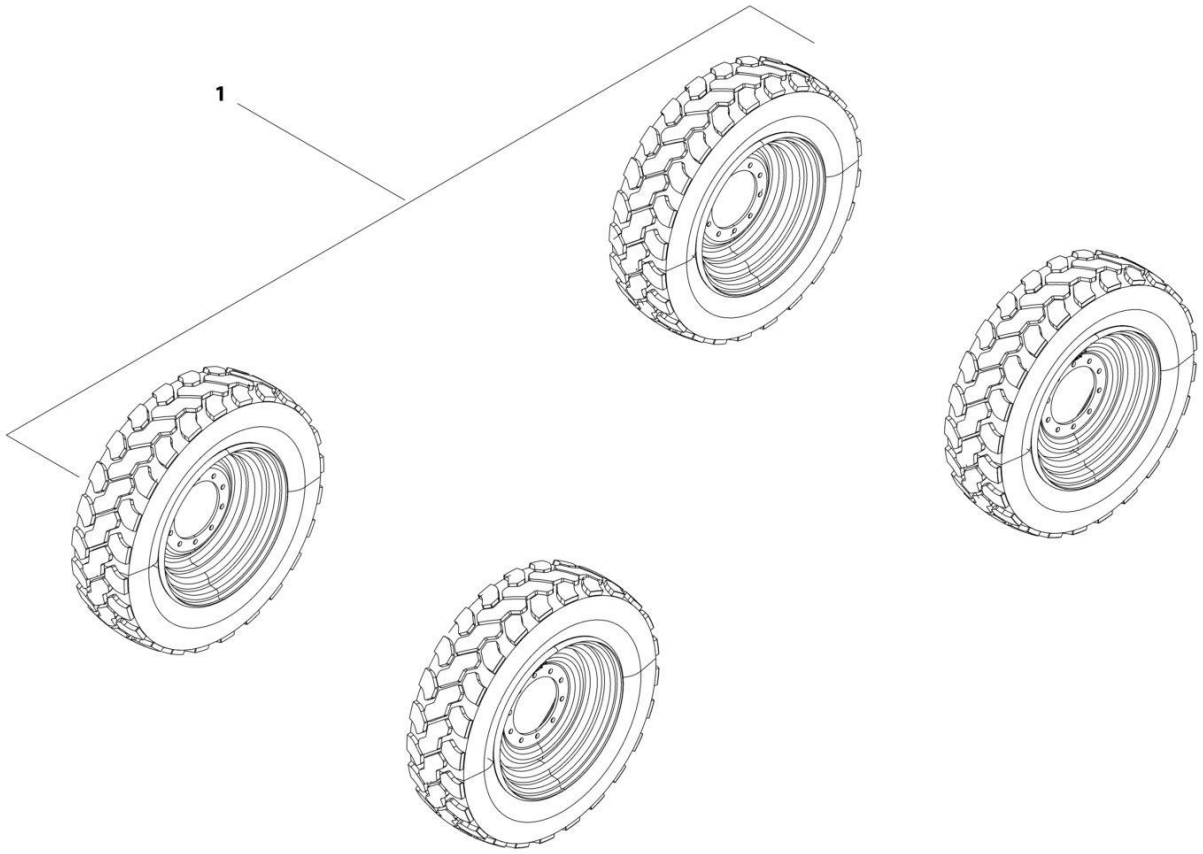
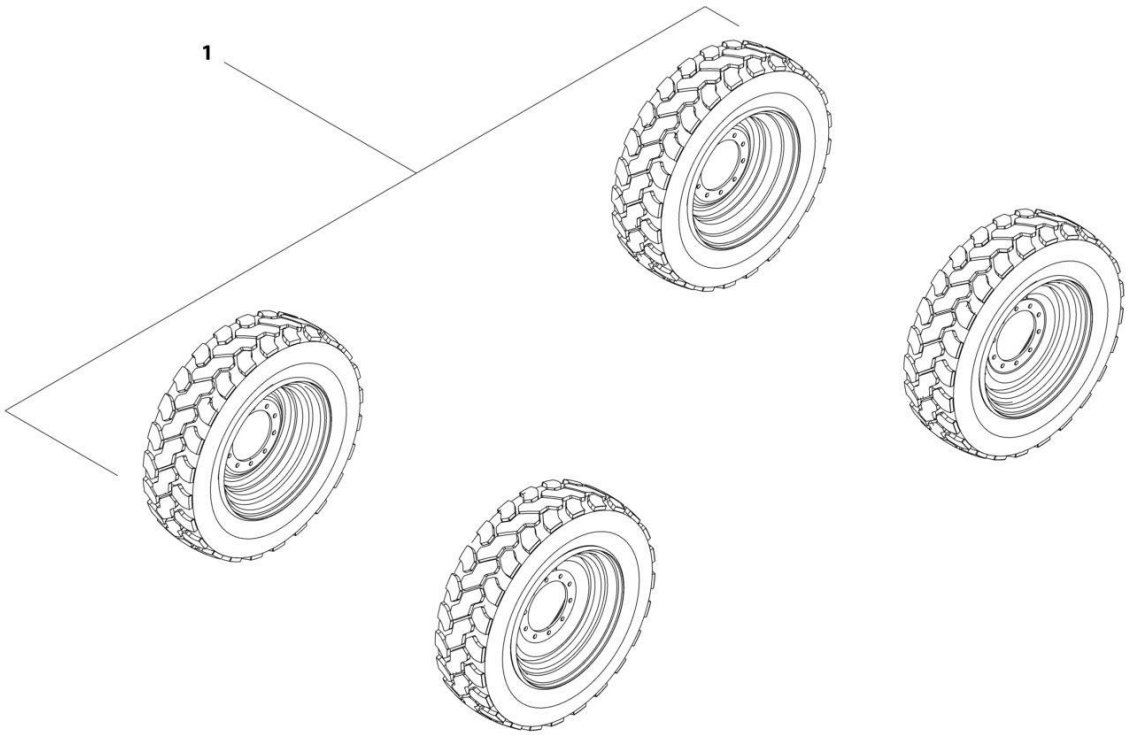


FIGURE 5-75. TIRE/WHEEL SET 370/75-28 - AIR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120963	Ref	Tire/Wheel Set 370/75-28 - Air	B
1	1001100323	4	Assembly, Tire/Wheel 370/75-28 - Air	
1	8786514	4	Valve, Air (1 per assembly)	
1	1001099976	4	Wheel (1 per assembly)	
1	1001100284	4	Tire (1 per assembly)	

FIGURE 5-76. TIRE/WHEEL SET 370/75-28 - FOAM



ART_1001121519_B

FIGURE 5-76. TIRE/WHEEL SET 370/75-28 - FOAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001121519	Ref	Tire/Wheel Set 370/75-28 - Foam	B
		Ref	Note: Assemblies require ballast/foam filling to manufacture's specifications prior to installing on machine. Refer to Operation & Safety or Service & Maintenance Manuals.	
		Ref	Purchase individual tire and/or wheel only if able to foam fill tire & wheel assembly, otherwise purchase complete assembly.	
1	1001121101	4	Tire/Wheel Assembly 370/75-28 Foam	
1	8786514	4	Valve, Air (1 per assembly)	
1	1001099976	4	Wheel (1 per assembly)	
1	1001100284	4	Tire 370/75-28 Non-Marking (1 per assembly)	

FIGURE 5-77. TIRE/WHEEL ASSEMBLY 370/75-28 - AIR

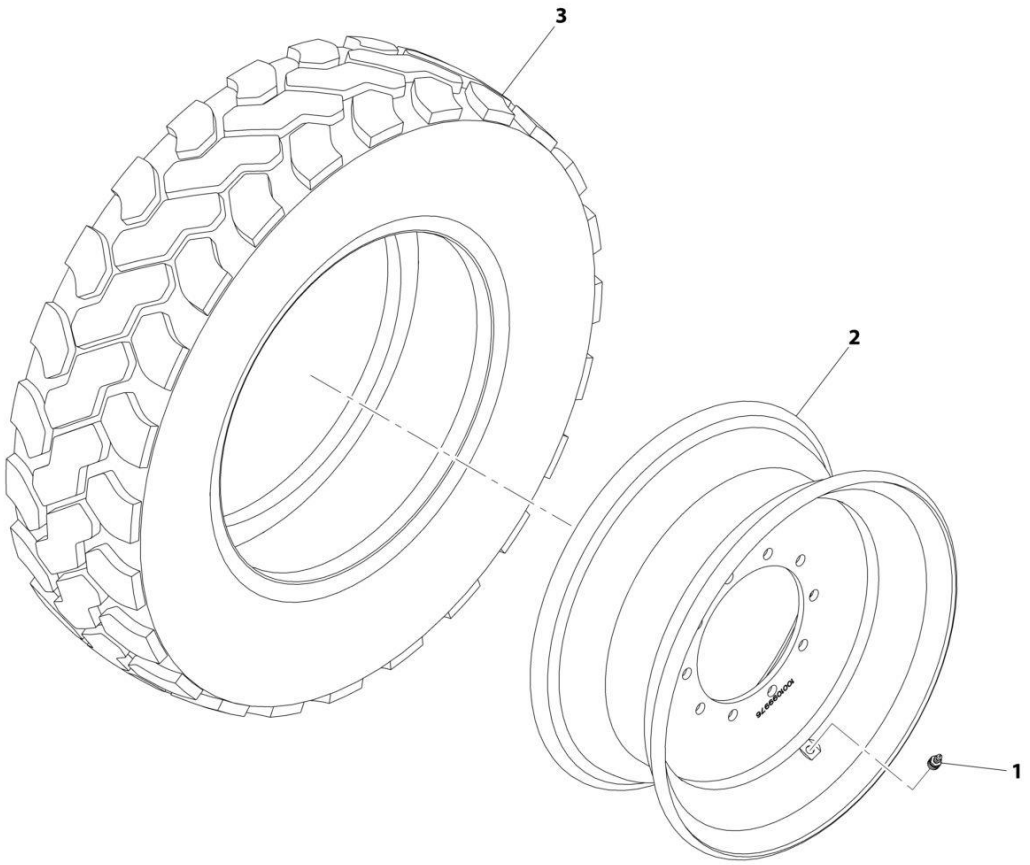


FIGURE 5-77. TIRE/WHEEL ASSEMBLY 370/75-28 - AIR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100323	Ref	Tire/Wheel Assembly 370/75-28 - Air	D
1	8786514	1	Valve, Stem	
2	1001099976	1	Wheel, 28X11w/.216 Offset	
3	1001100284	1	Tire, 370/75-28	

FIGURE 5-78. TIRE/WHEEL RIGHT ASSEMBLY 13-24 16PR - AIR

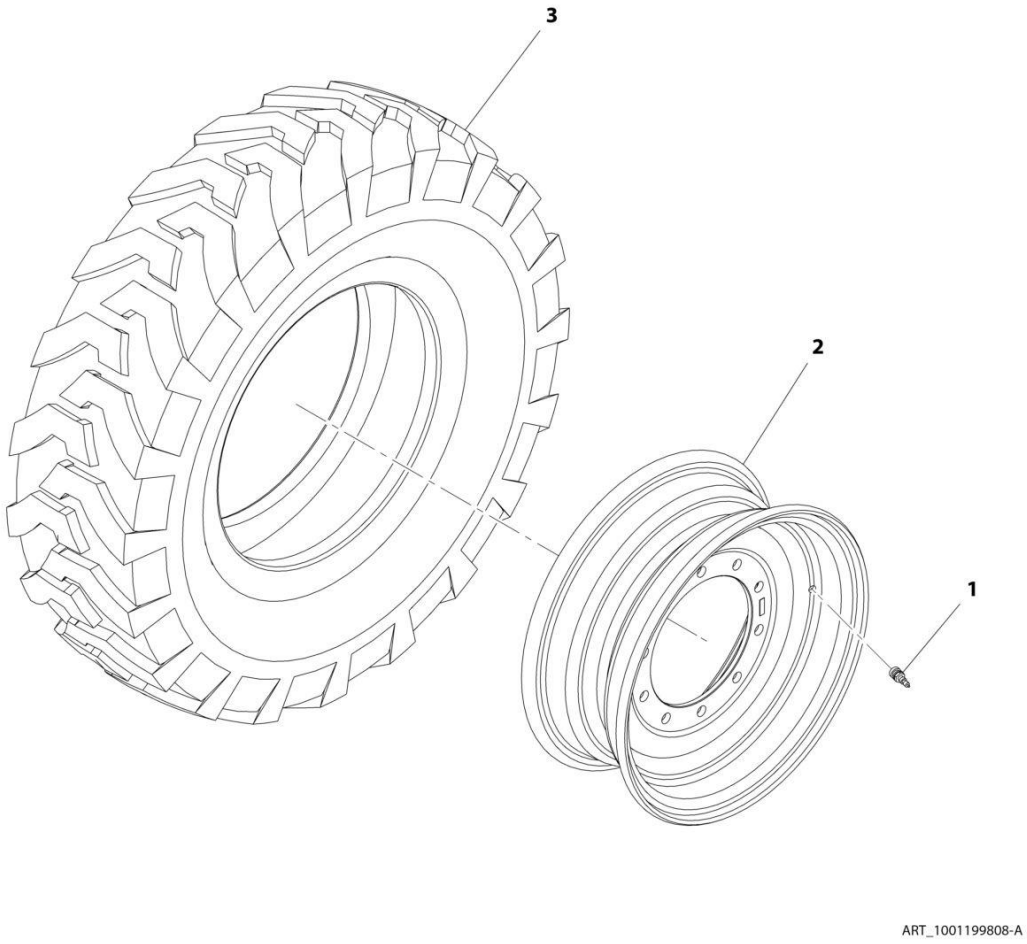


FIGURE 5-78. TIRE/WHEEL RIGHT ASSEMBLY 13-24 16PR - AIR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199808	Ref	Tire/Wheel Right Assembly 13-24 16PR - Air	A
1	8786514	1	Valve, Stem	
2	91473206	1	Wheel, 24x9.00 GR	
3	1001199807	1	Tire, 13.00x24 TG 16 PLY G2, BIAS	

FIGURE 5-79. TIRE/WHEEL LEFT ASSEMBLY 13-24 16PR - AIR

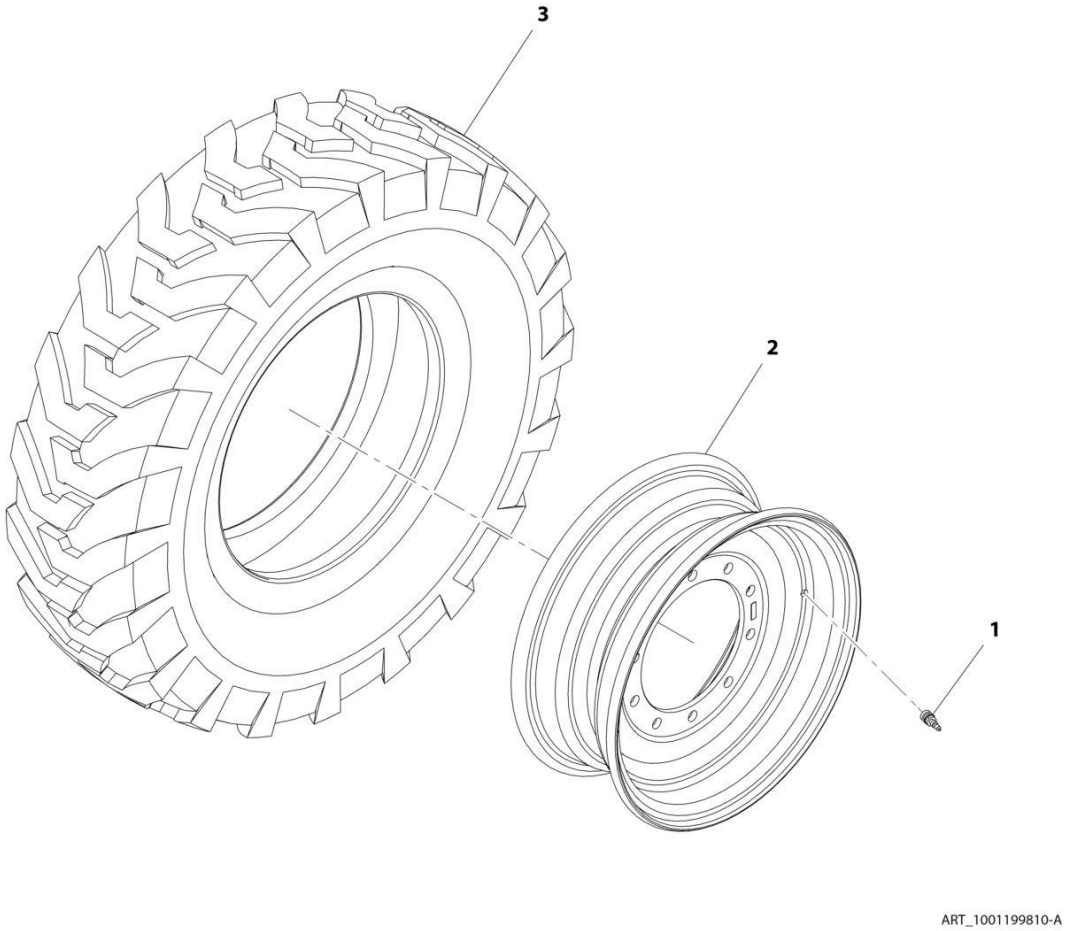


FIGURE 5-79. TIRE/WHEEL LEFT ASSEMBLY 13-24 16PR - AIR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199810	Ref	Tire/Wheel Left Assembly 13-24 16PR - Air	A
1	8786514	1	Valve, Stem	
2	91473206	1	Wheel, 24x9.00 GR	
3	1001199807	1	Tire, 13.00x24 TG 16 PLY G2, BIAS	

SECTION 6 - CAB

FIGURE 6-1. A/C RECEIVER DRIER

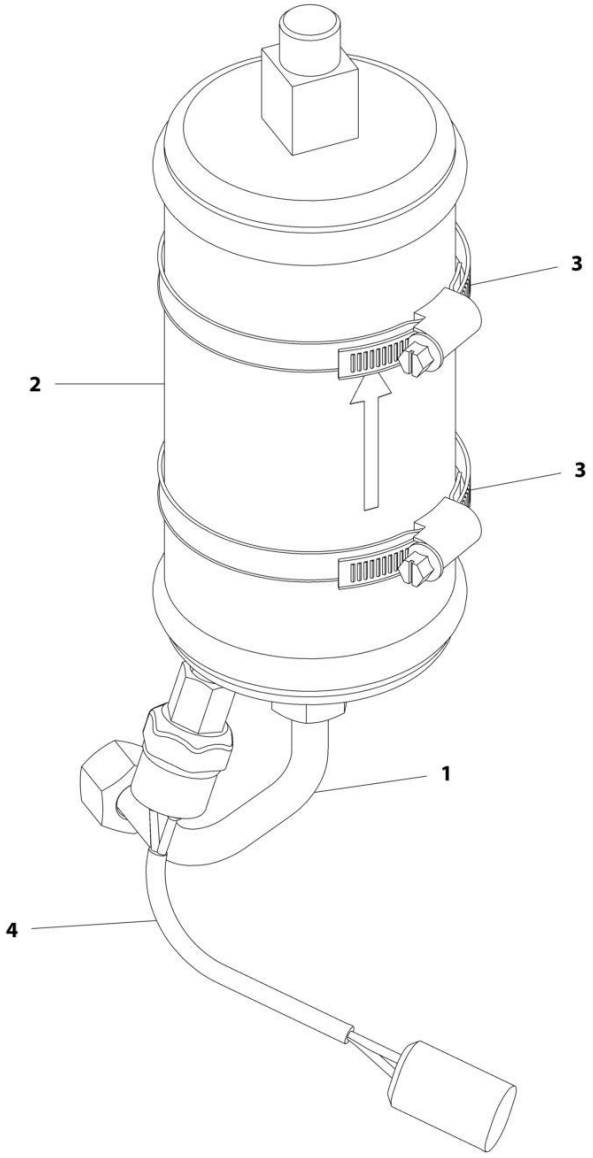


FIGURE 6-1. A/C RECEIVER DRIER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179130	Ref	A/C Receiver Drier	B
1	1001184403	1	Tube, Heater	
2	1001184404	1	Receiver, Heater Drier	
3	1001184405	2	Clamp	
4	1001184406	1	Connector, Heater	

FIGURE 6-2. ARMREST

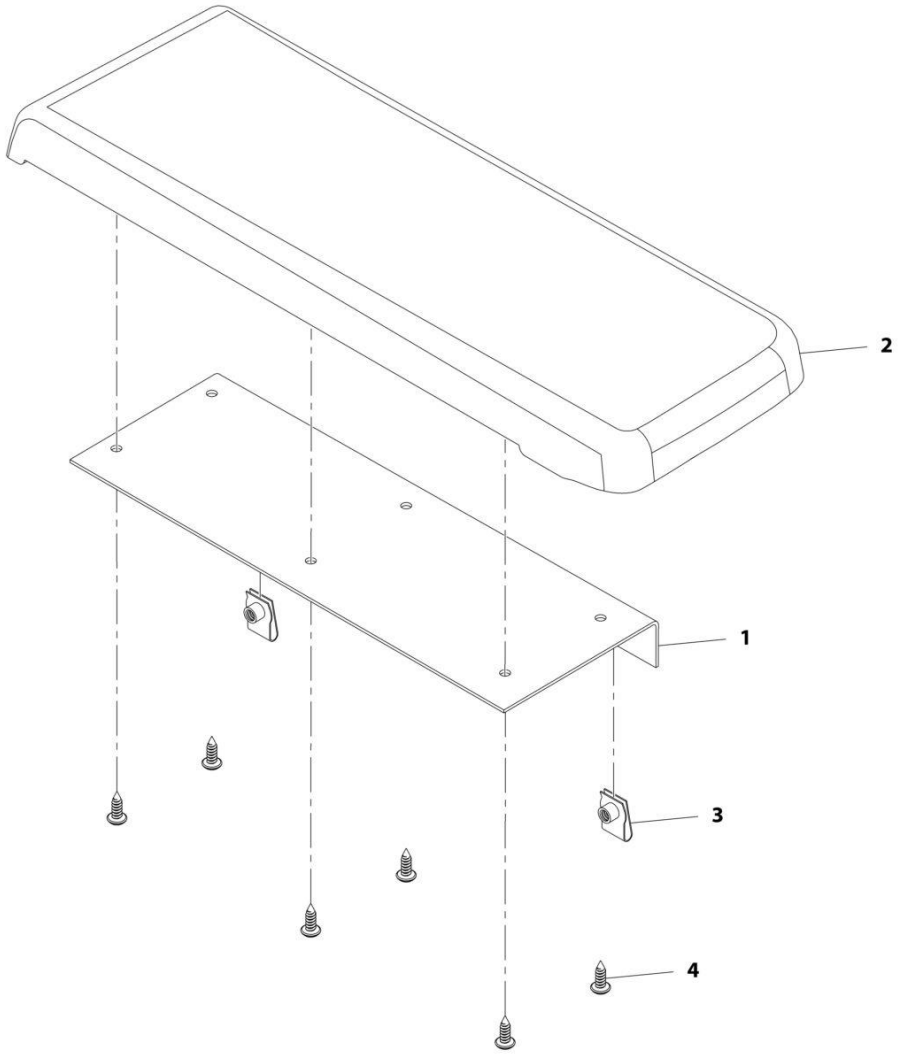


FIGURE 6-2. ARMREST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161854	Ref	Armrest Assembly	E
1	1001174581	1	Bracket	
2	1001179484	1	Arm Rest	
3	1001183550	2	Nut, Cage M5	
4	1001192240	6	Screw	

FIGURE 6-3. BASIC MIRROR INSTALLATION

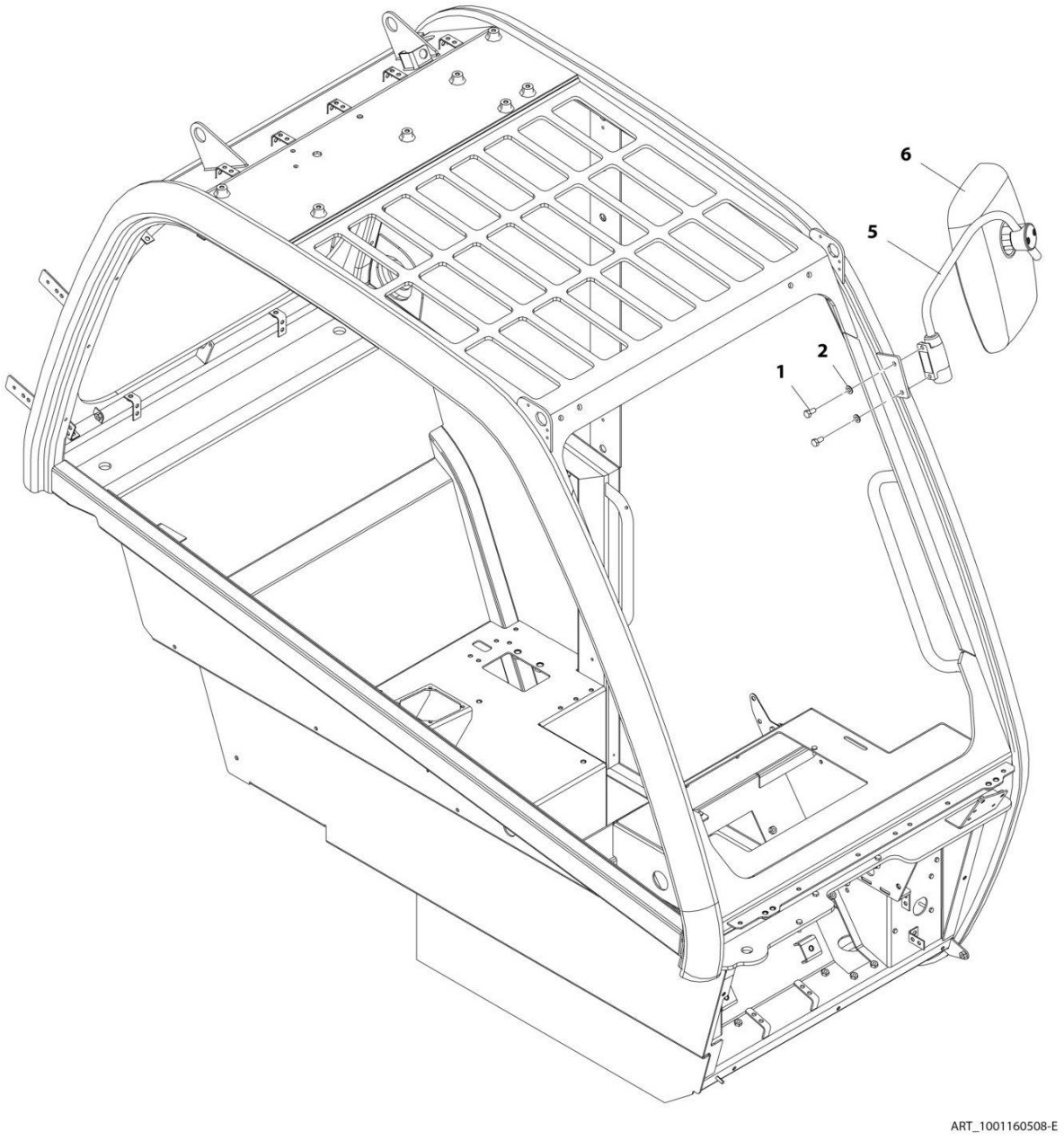


FIGURE 6-3. BASIC MIRROR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160508	Ref	Basic Mirror Installation	E
1	0760808	2	Bolt, M8X16	
2	4811900	2	Washer, M8	
5	1001164655	1	Bracket	
6	80363195	1	Mirror	

FIGURE 6-4. CAB MOUNTING

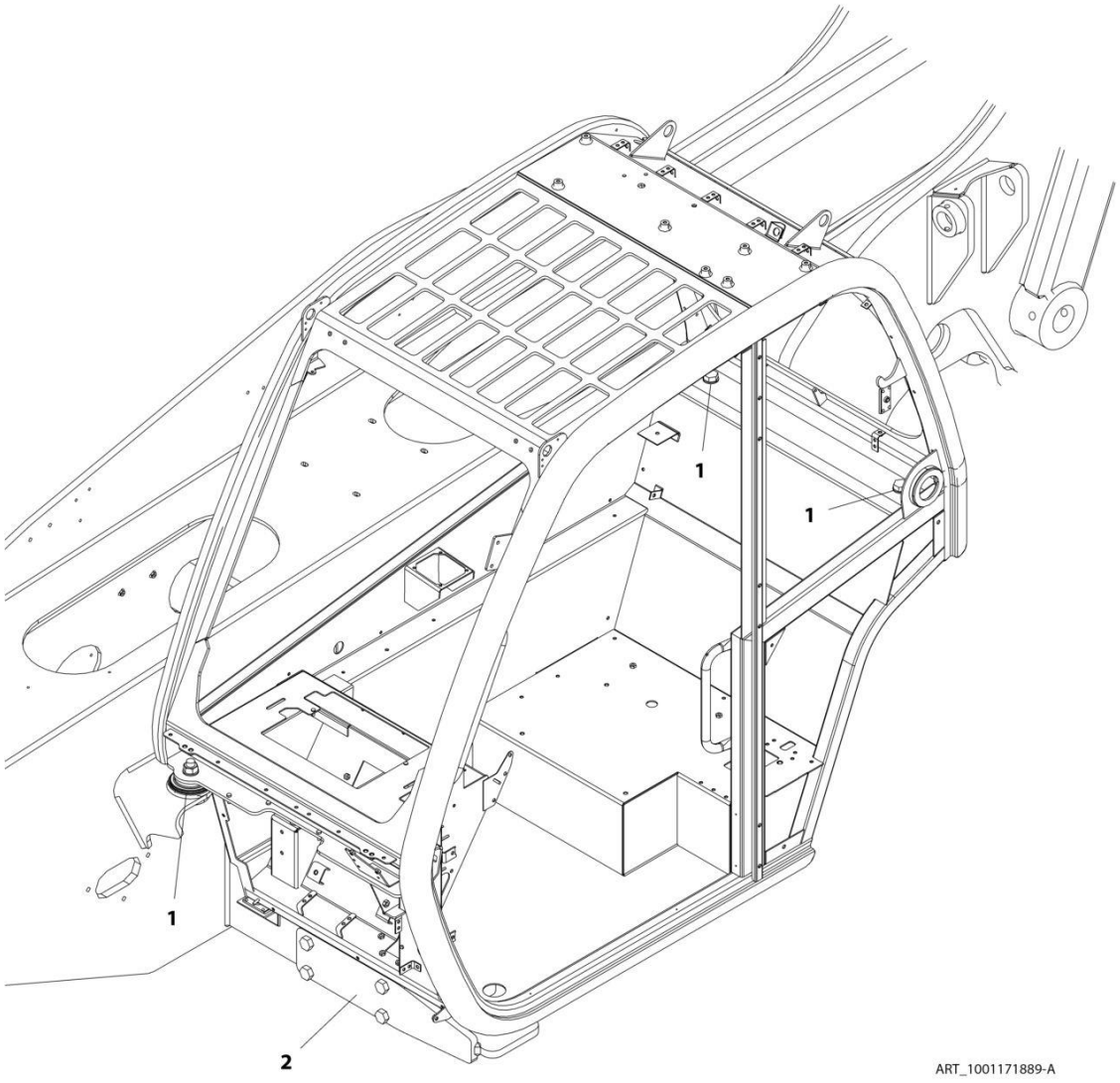


FIGURE 6-4. CAB MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171889	Ref	Cab Mounting	A
1	1001155446	1	Installation, Cab Mounts (See Separate Breakdown in this Section)	
2	1001171890	1	Installation, Front Cab Outrigger (See Separate Breakdown in this Section)	

FIGURE 6-5. CAB FENDER INSTALLATION

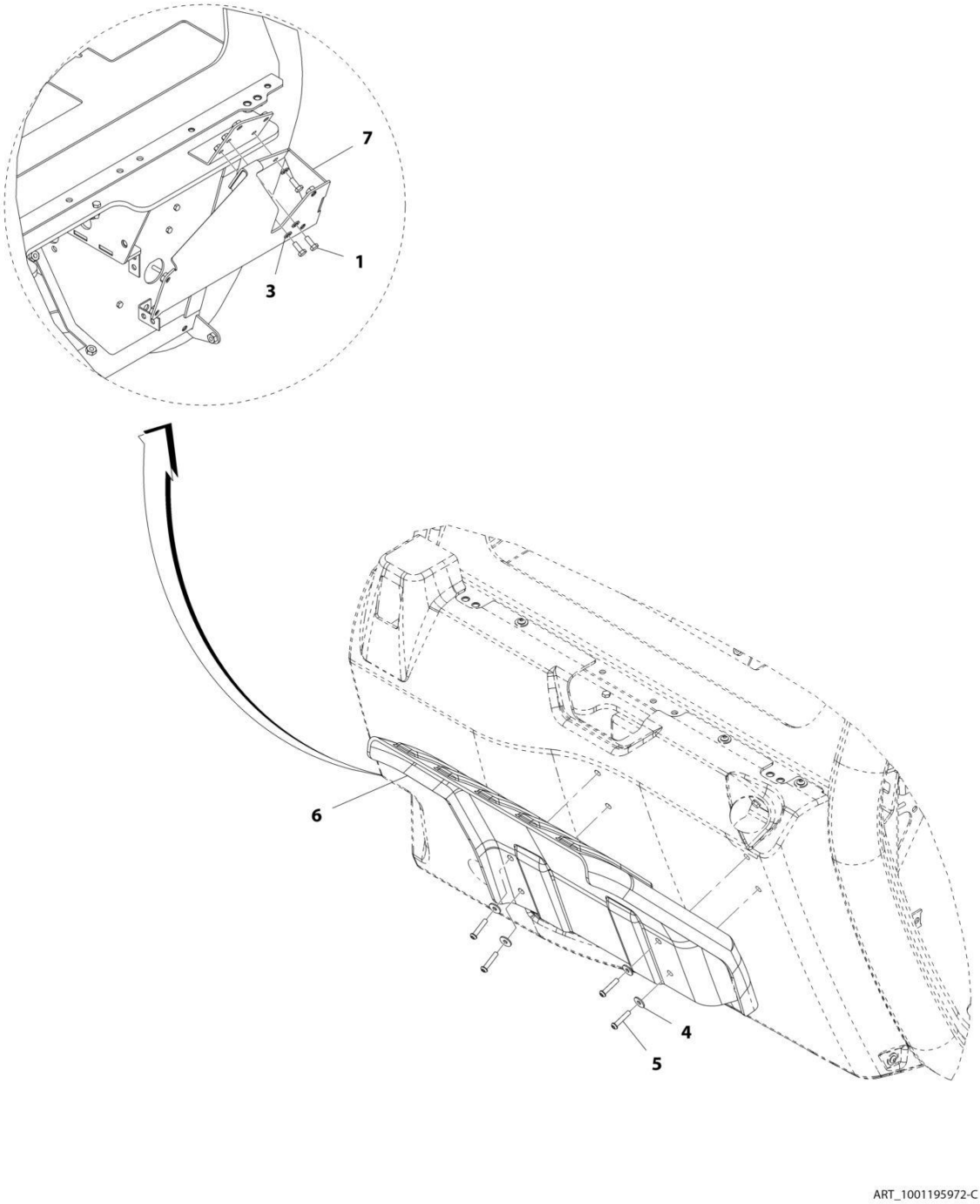


FIGURE 6-5. CAB FENDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001195972	Ref	Cab Fender Installation	C
1	0760608	3	Bolt, M6X16	
3	4811700	3	Washer, M6	
4	4811702	4	Washer, M6	
5	1001097202	4	Screw, M6X30	
6	1001187335	1	Fender, Front	
7	1001188048	1	Plate	

FIGURE 6-6. ENCLOSED CAB INSTALLATION

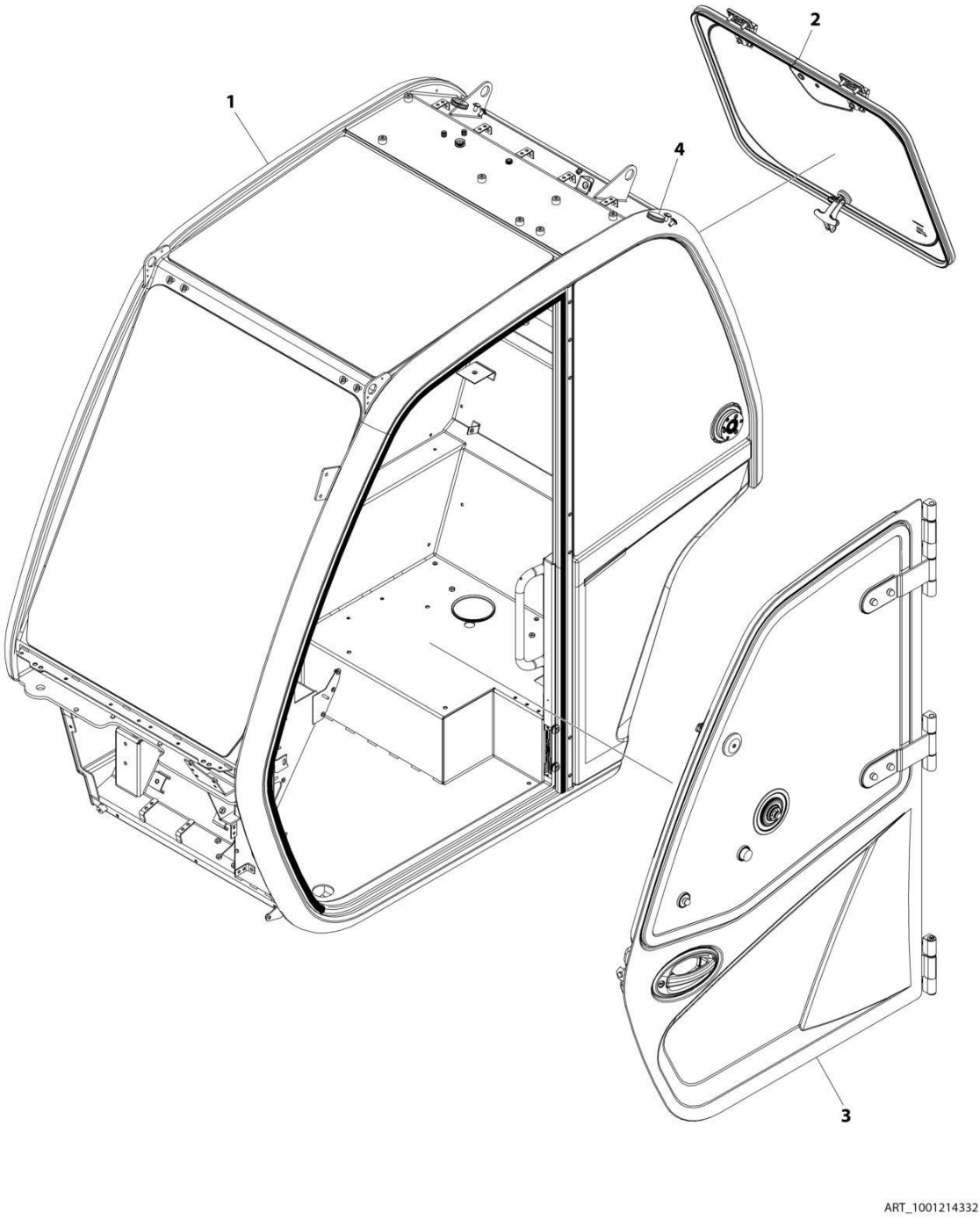


FIGURE 6-6. ENCLOSED CAB INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001214332	Ref	Enclosed Cab Installation	I
1	1001154365	1	Assembly, Enclosed Cab (See Separate Breakdown in this Section)	
2	1001170500	1	Installation, Rear Window (See Separate Breakdown in this Section)	
3	1001165080	1	Installation, Door (See Separate Breakdown in this Section)	
4	1001170603	1	Group, Enclosed Cab Plug (See Separate Breakdown in this Section)	

FIGURE 6-7. CAB, EPD CAULK

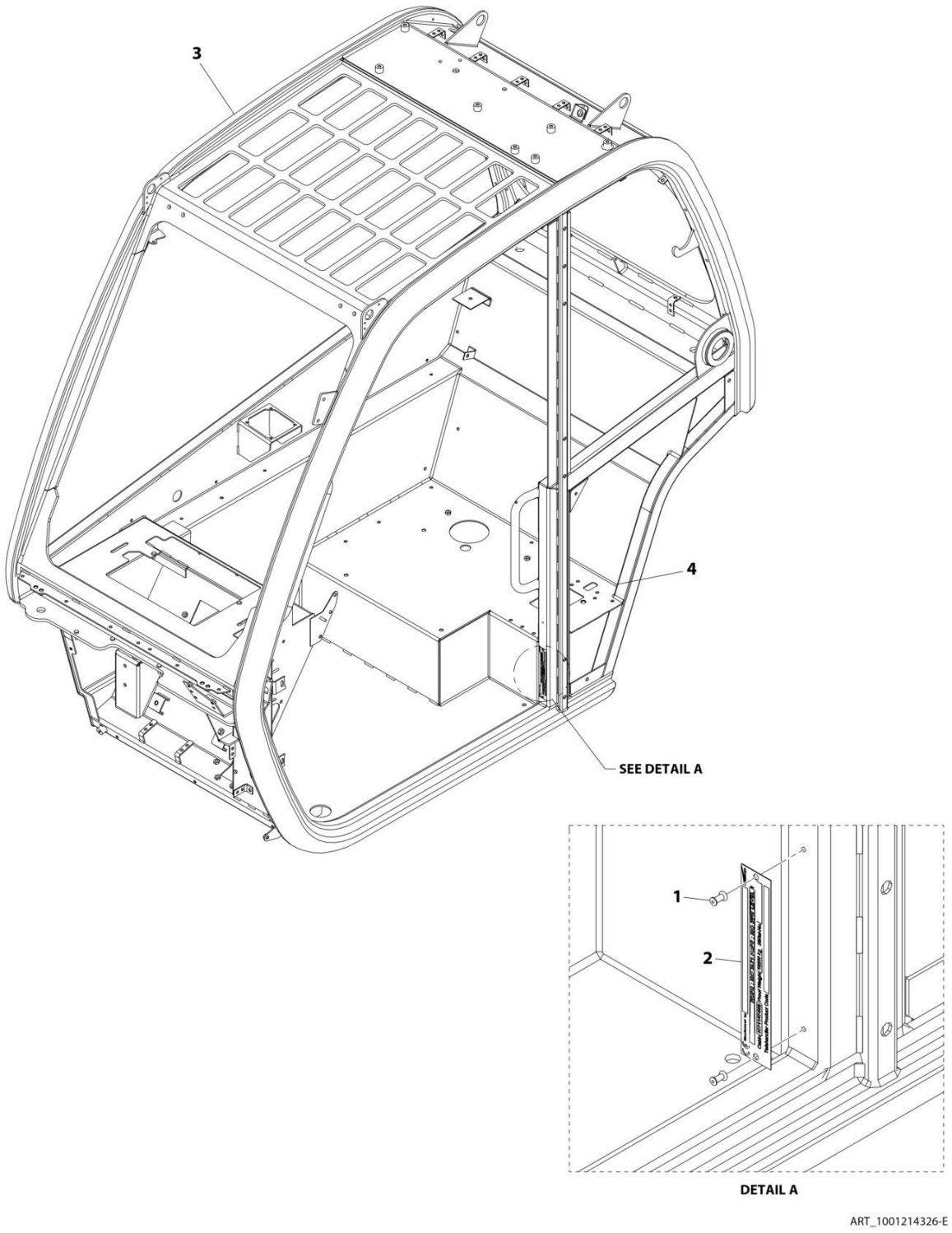


FIGURE 6-7. CAB, EPD CAULK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001214326	Ref	Cab	E
1	1001099170	2	Rivet, 4	
2	N.S.S.	1	Plate, Serial Number	
3	N.S.S.	1	Weldment	
4	1001205402	AR	Sealant	

FIGURE 6-8. CAB DOOR INSTALLATION

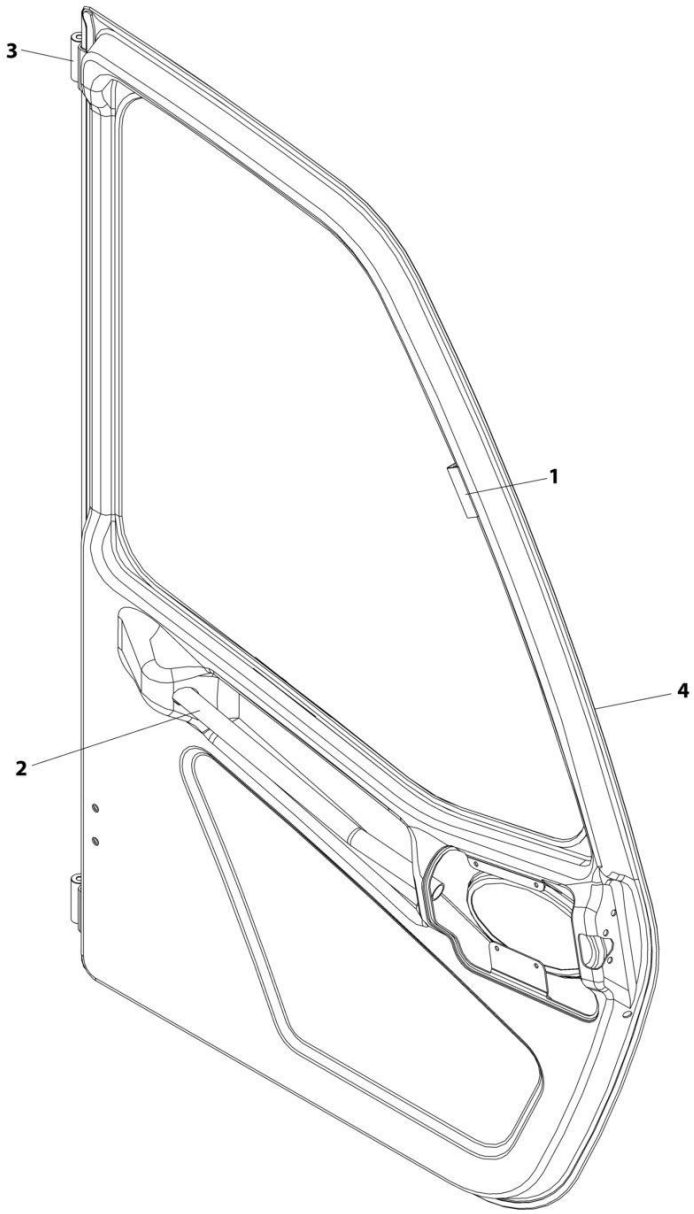
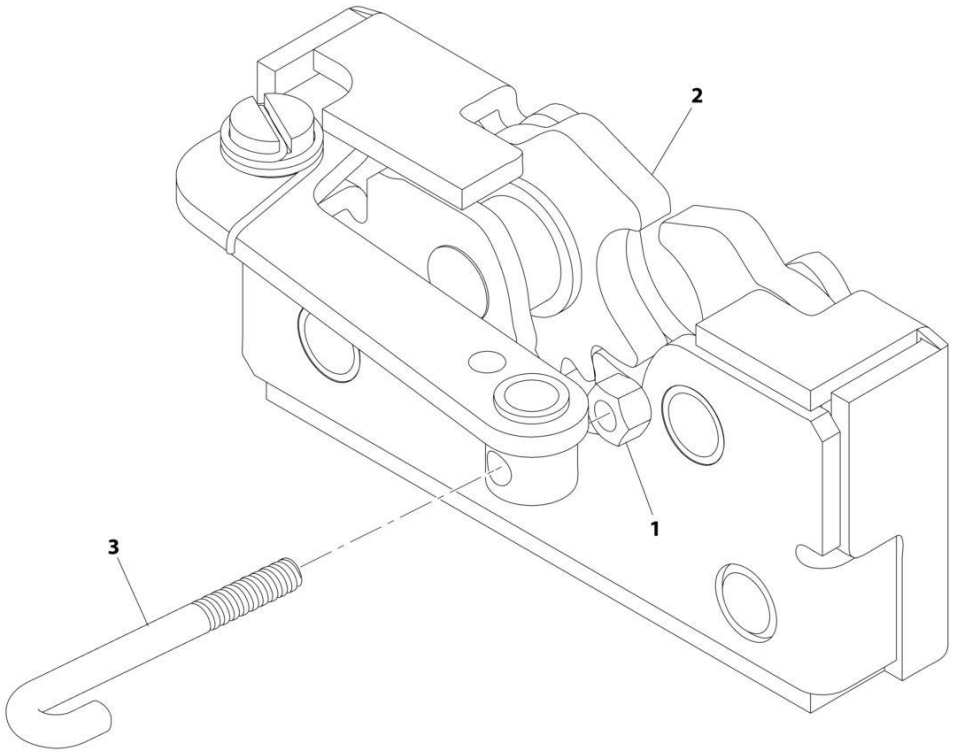


FIGURE 6-8. CAB DOOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165022	Ref	Cab Door	E
1	1001169883	1	Bracket, Window Latch	
2	1001169885	1	Handle, Interior Door	
3	1001171037	1	Plate, Hinge	
4	1001171634	1	Frame, Door	

FIGURE 6-9. CAB LATCH ASSEMBLY

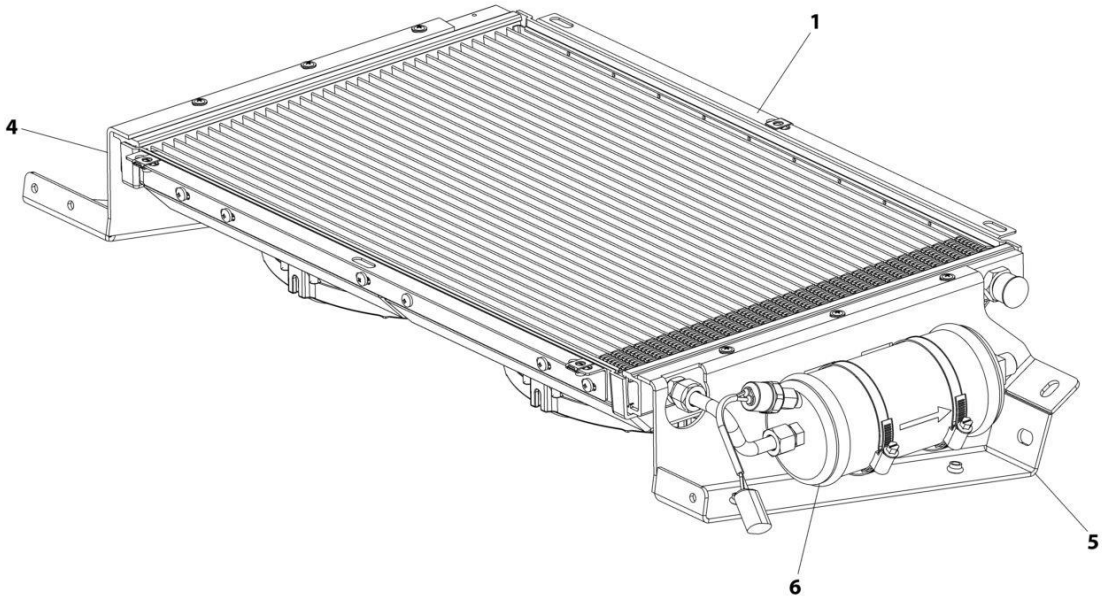


ART_1001192766-B

FIGURE 6-9. CAB LATCH ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001192766	Ref	Cab Latch Assembly	B
1	3290405	1	Nut, M4X0.7 Grade 8	
2	1001192643	1	Latch	
3	1001241308	1	Link, Door Handle	

FIGURE 6-10. CAB CONDENSER ASSEMBLY



ART_1001162953

FIGURE 6-10. CAB CONDENSER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162953	Ref	Cab Condenser Assembly	G
1	1001167266	1	Condenser (See Separate Breakdown in this Section)	
4	1001179080	1	Bracket	
5	1001179081	1	Bracket	
6	1001179130	1	Drier, A/C Receiver (See Separate Breakdown in this Section)	

FIGURE 6-11. CONDENSER

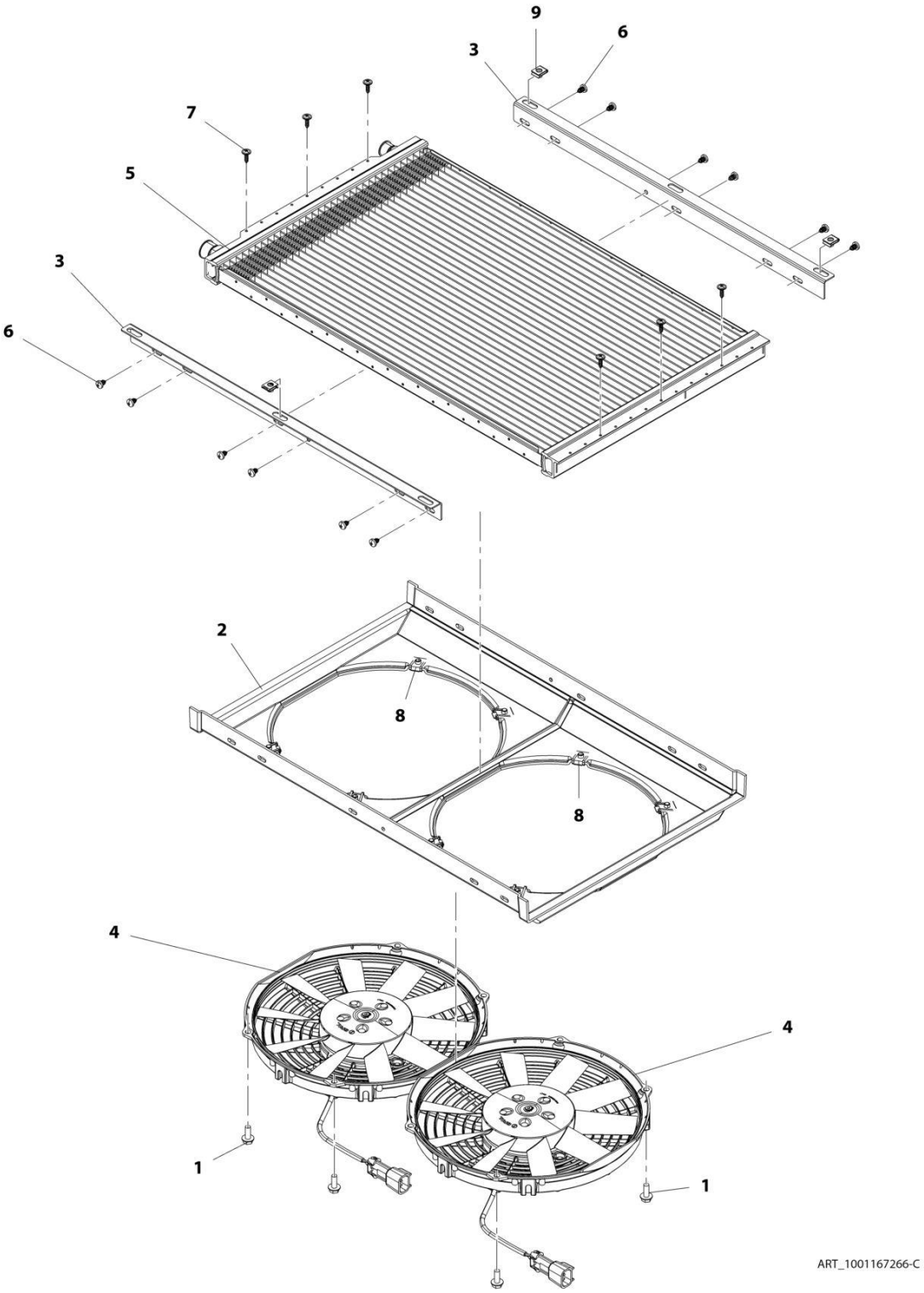


FIGURE 6-11. CONDENSER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167266	Ref	Condenser	C
1	5250608	8	Bolt, M6X16	
2	1001195342	1	Bracket, Condenser Fan Mount	
3	1001195343	2	Support, Condenser	
4	1001195345	2	Fan, Condenser	
5	1001195346	1	Condenser	
6	1001195385	12	Screw, M3.9X9.5	
7	1001195386	6	Screw, M4.2X16	
8	1001195437	8	Clip, M6X1	
9	1001195438	3	Clip, M6X1	

FIGURE 6-12. CAB GUARD INSTALLATION (TOP AND FRONT)

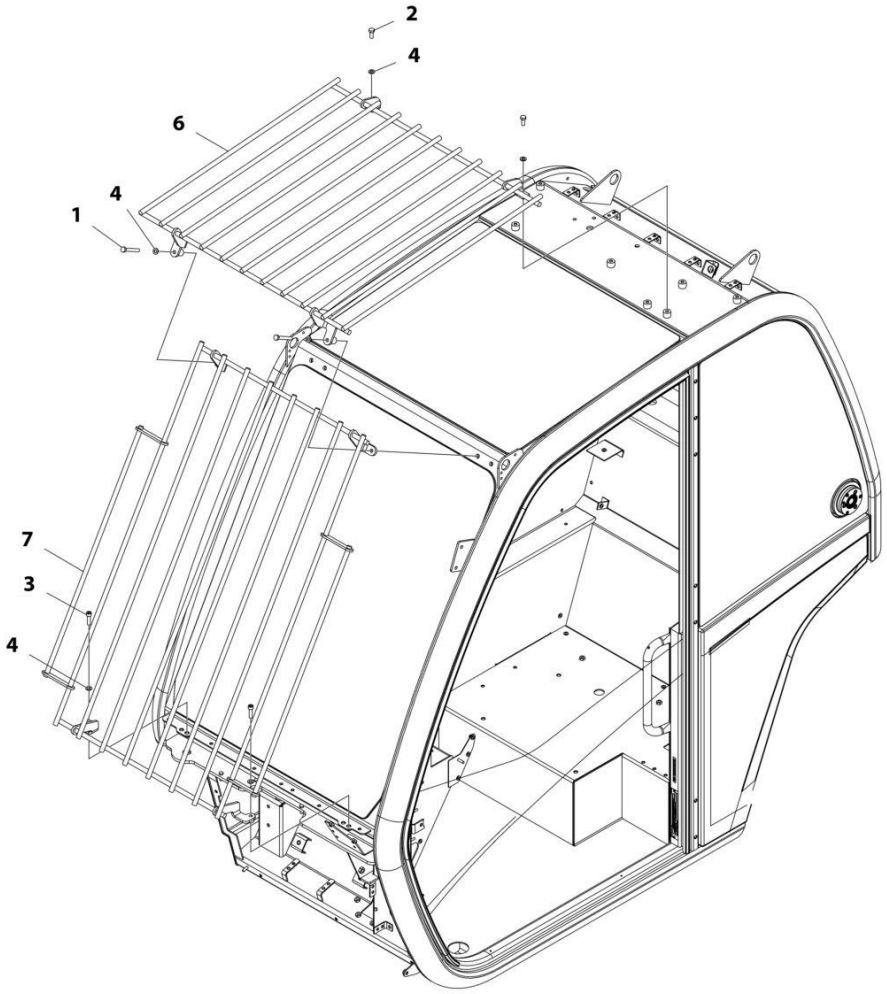


FIGURE 6-12. CAB GUARD INSTALLATION (TOP AND FRONT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172774	Ref	CAB GUARD INSTALLATION (TOP AND FRONT)	G
1	0700820	2	Bolt M8 x 60	
2	0760810	2	Bolt M8 x 20	
3	4031910	2	Bolt M8 x 30	
4	4811900	6	Washer M8	
6	1001160503	1	Guard, Top Screen	
7	1001180263	1	Guard, Front Screen	

FIGURE 6-13. CAB GUARD INSTALLATION (TOP)

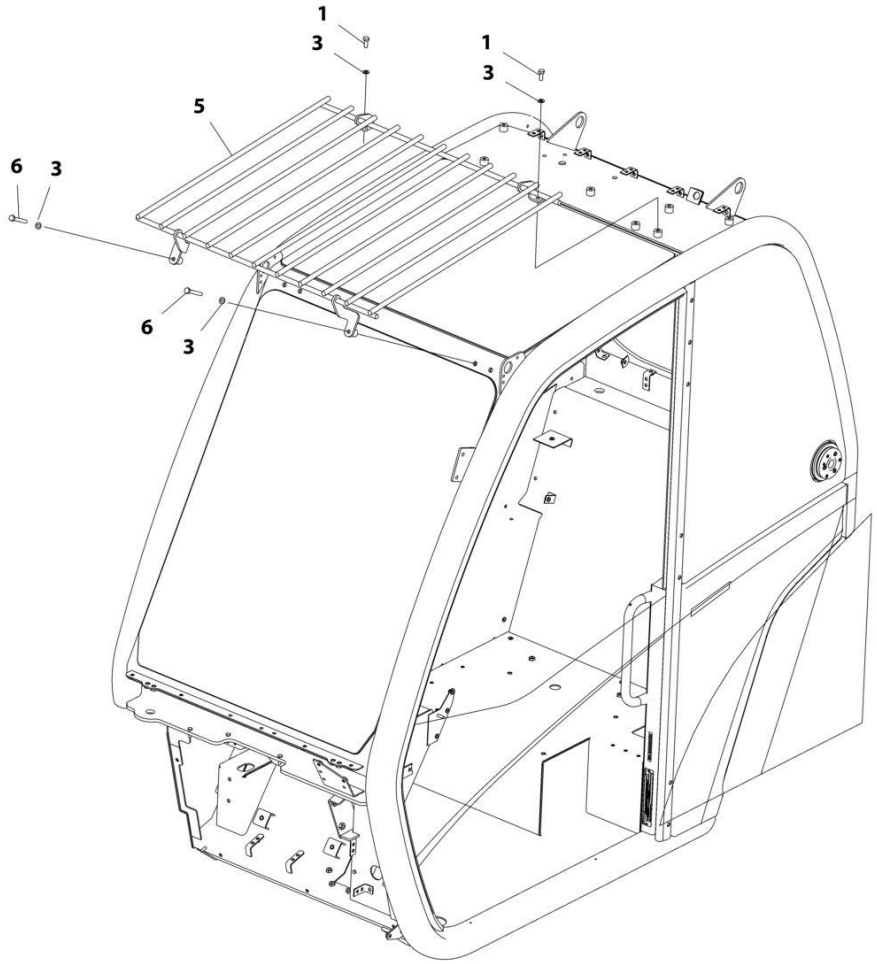


FIGURE 6-13. CAB GUARD INSTALLATION (TOP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160496	Ref	Cab Guard Installation (Top)	G
1	0760810	2	Bolt, M8X20	
3	4811900	4	Washer, M8	
5	1001160503	1	Guard, Top Screen	
6	0700820	2	Bolt, M8X60	

FIGURE 6-14. CAB GUARD INSTALLATION (FRONT)

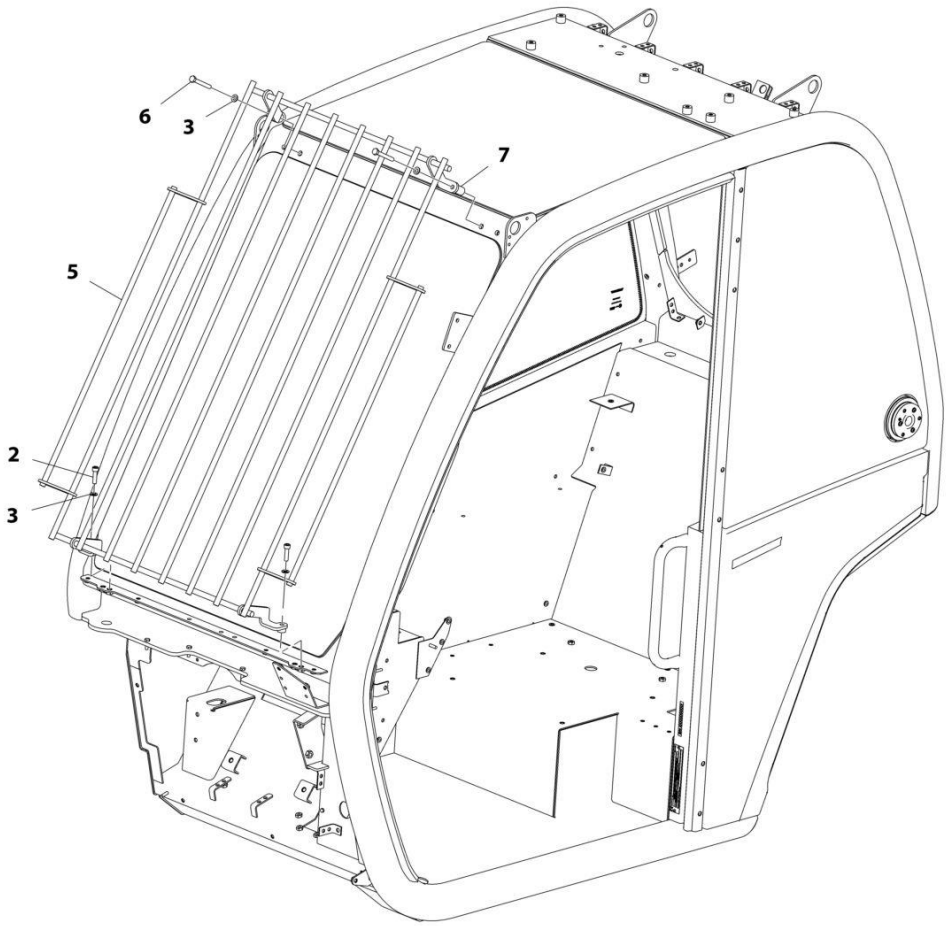


FIGURE 6-14. CAB GUARD INSTALLATION (FRONT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160506	Ref	Cab Guard Installation (Front)	G
2	4031910	2	Bolt, M8X30	
3	4811900	4	Washer, M8	
5	1001180263	1	Guard, Front Screen	
6	0700820	2	Bolt, M8X60	
7	1001173257	2	Spacer	

FIGURE 6-15. CAB MOUNTS INSTALLATION

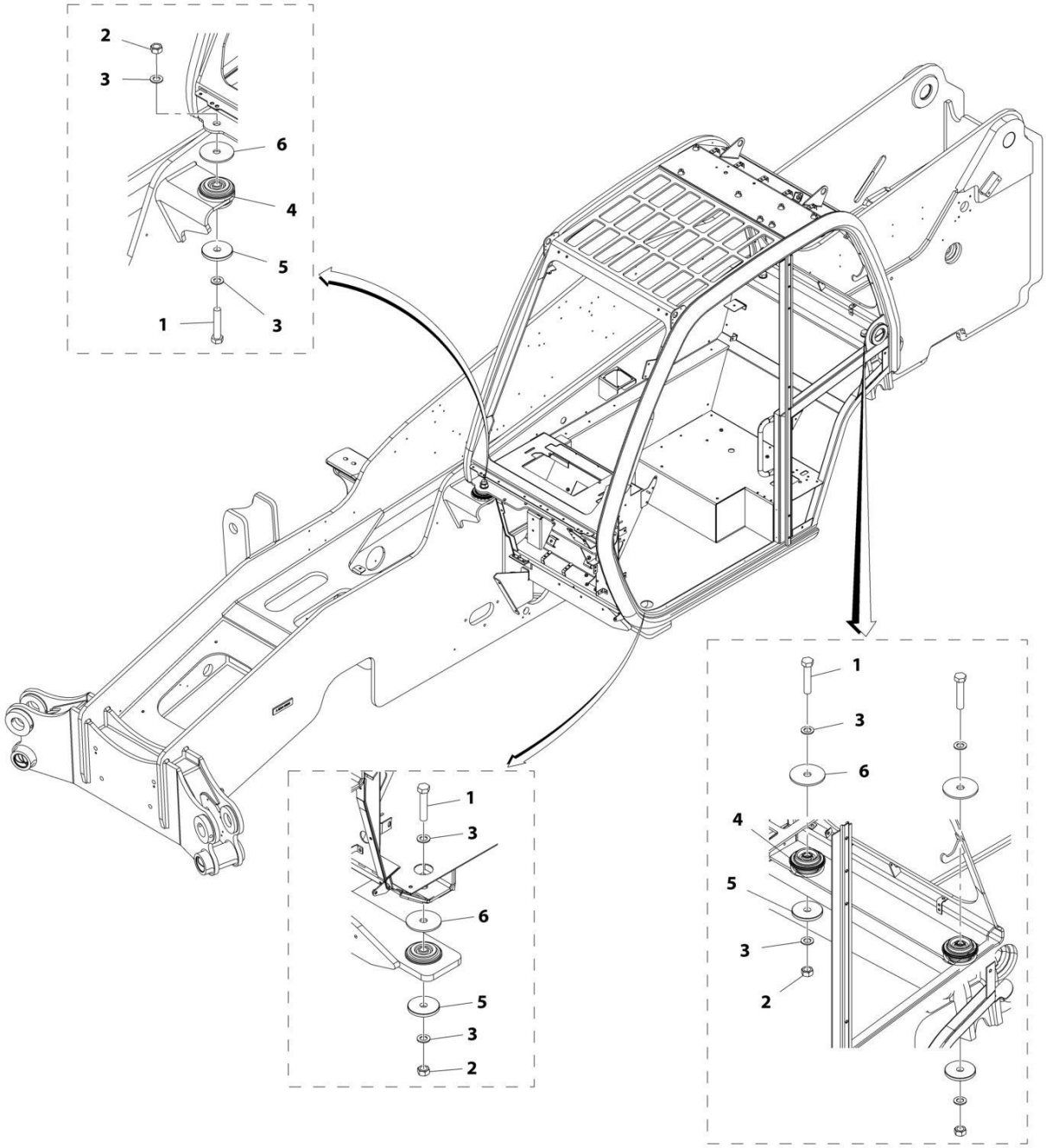


FIGURE 6-15. CAB MOUNTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155446	Ref	Cab Mounts Installation	E
1	0712027	4	Bolt, M20X100	
2	3332011	4	Nut, M20X2.5	
3	4812500	8	Washer, M20	
4	1001166754	4	Mount, Cab Isolation	
5	1001166755	4	Washer, Cab Rebound	
6	1001220540	4	Washer, Cab Mount	

FIGURE 6-16. CAB DOOR TRIGGER ASSEMBLY

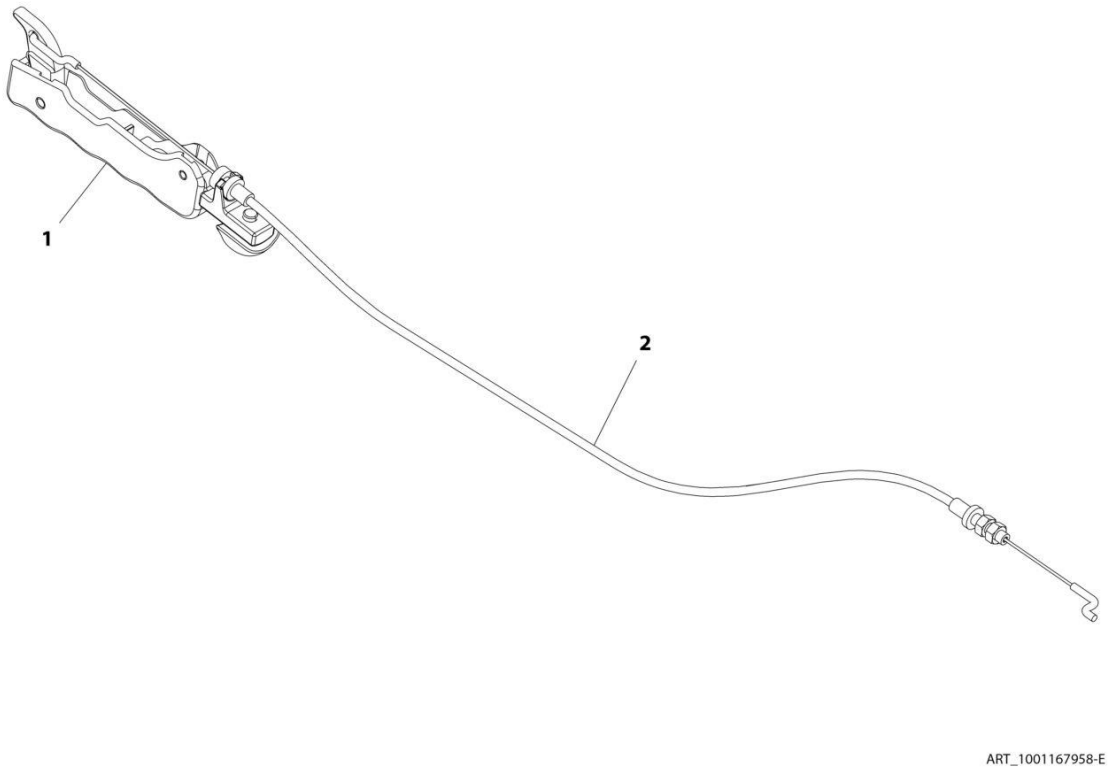


FIGURE 6-16. CAB DOOR TRIGGER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167958	Ref	Cab Door Trigger Assembly	E
1	1001167937	1	Trigger, Cab Interior Release	
2	1001192644	1	Cable, Cab Latch Release	

FIGURE 6-17. DOOR INSTALLATION

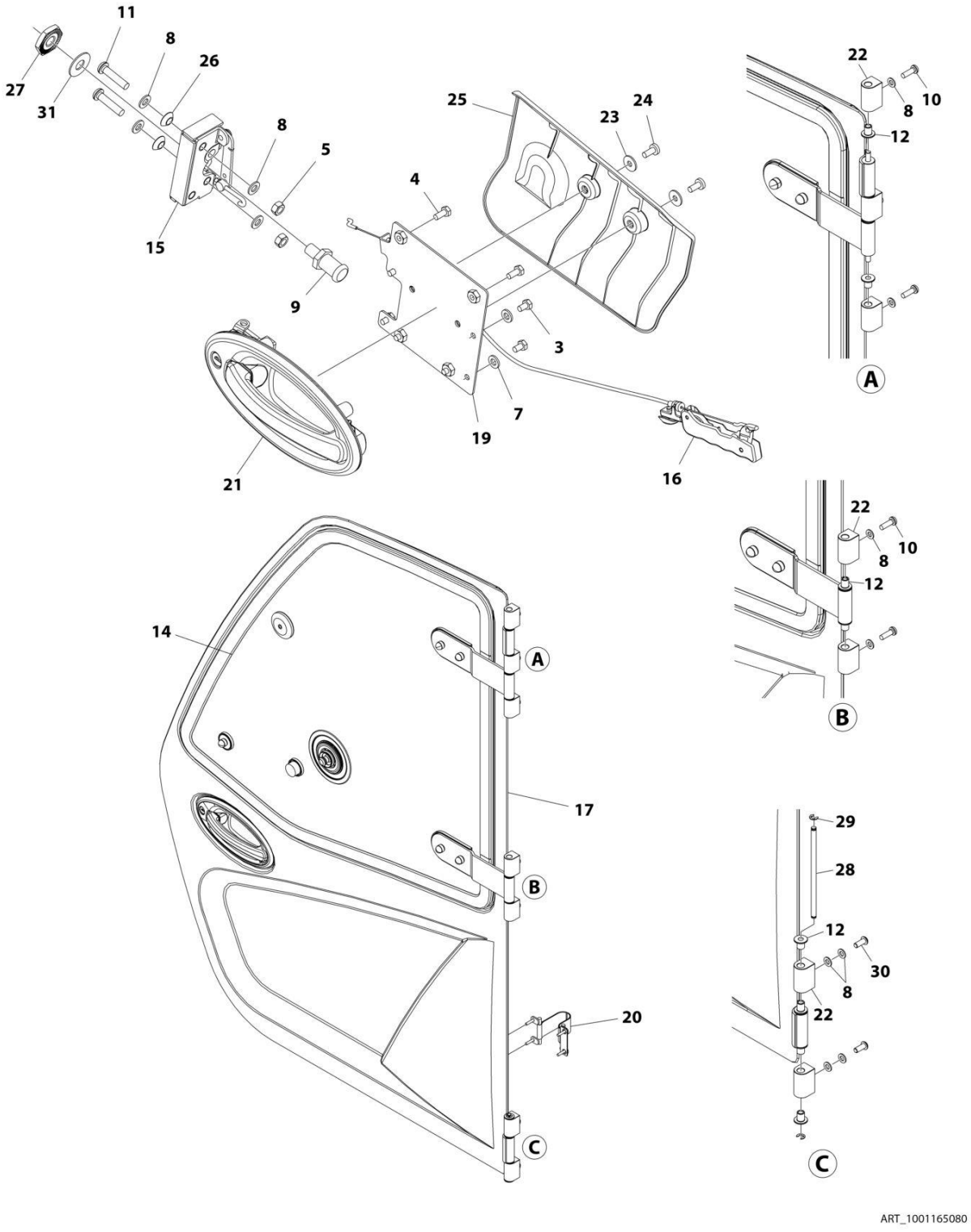
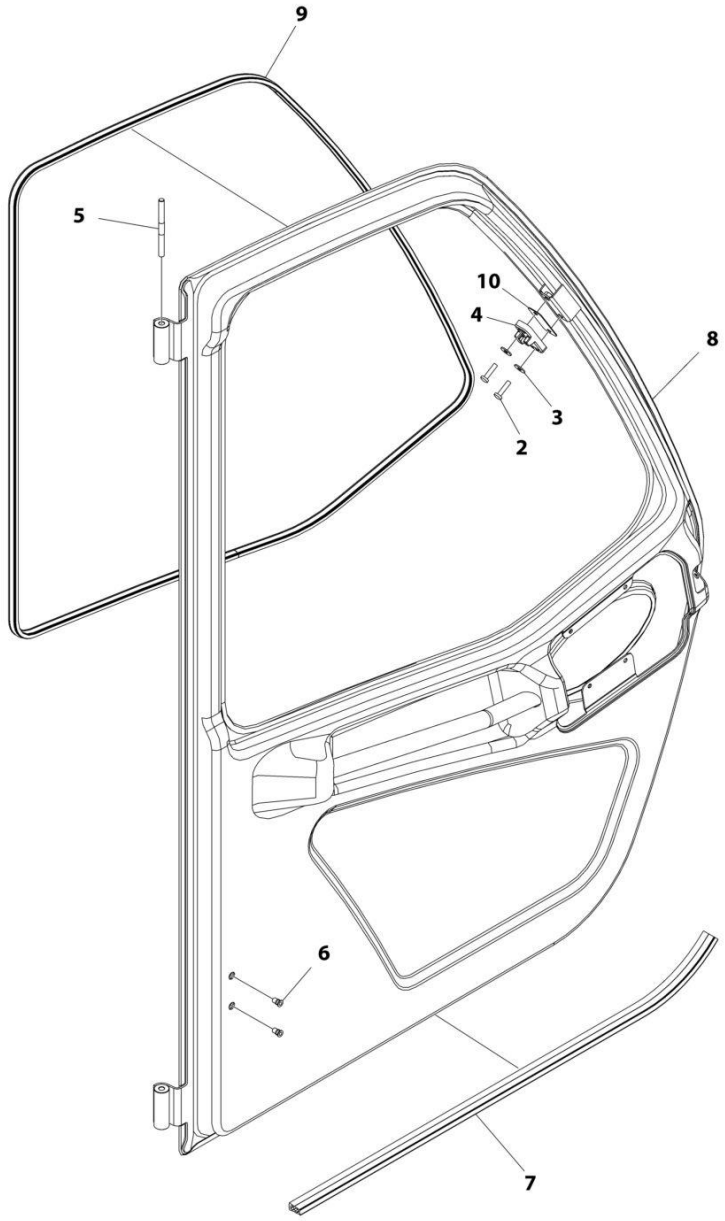


FIGURE 6-17. DOOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165080	Ref	Door Installation	P
3	0760605	4	Bolt, M6X10	
4	0760607	4	Bolt, M6X14	
5	3290801	2	Nut, M8X1.25 Grade 8	
7	4811700	4	Washer, M6	
8	4811900	13	Washer, M8	
9	8000803	1	Pin, Door Striker	
10	1001008988	5	Screw M8X25	
11	1001047062	2	Screw, M8X35	
12	1001107192	10	Sleeve, Hinge	
14	1001205532	1	Assembly, Door Upper Glass (See Separate Breakdown in this Section)	
15	1001192766	1	Assembly, Cab Latch (See Separate Breakdown in this Section)	
16	1001167958	1	Assembly, Cab Door Trigger (See Separate Breakdown in this Section)	
17	1001169881	1	Assembly, Door (See Separate Breakdown in this Section)	
19	1001173298	1	Bracket	
20	1001174295	1	Installation, Door Strap (See Separate Breakdown in this Section)	
21	1001192646	1	Handle, Exterior Door	
22	1001170601J	7	Lug, Hinge	
23	4811702001	2	Washer, M6	
24	4010608002	2	Screw, M6X16	
25	1001175477	1	Cover, Cab Door Interior	
26	1001184439	2	Bushing	
27	1001192309	1	Nut, M12X1	
28	1001213791	1	Pin, Hinge	
29	0498748	2	Clip, Snap Ring	
30	1001164726	2	Bolt, M8X20	
31	1001227802	1	Washer	

FIGURE 6-18. DOOR ASSEMBLY



ART_1001169881_K

FIGURE 6-18. DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169881	Ref	Door Assembly	K
2	4010612002	2	Screw, Posi-Drive, M6X25	
3	4811702001	2	Washer, M6	
4	1001165276	1	Plate, Window Latch Striker	
5	1001166634	1	Pin, Hinge	
6	1001172193	2	Rivnut, M5X0.8	
7	1001227188	1	Seal, Cab Door	
8	1001165022J	1	Door, Cab (See Separate Breakdown in this Section)	
9	1001227187	1	Seal, Cab Door Window	
10	1001193210	AR	Shim, Window Latch	

FIGURE 6-19. DOOR STRAP INSTALLATION

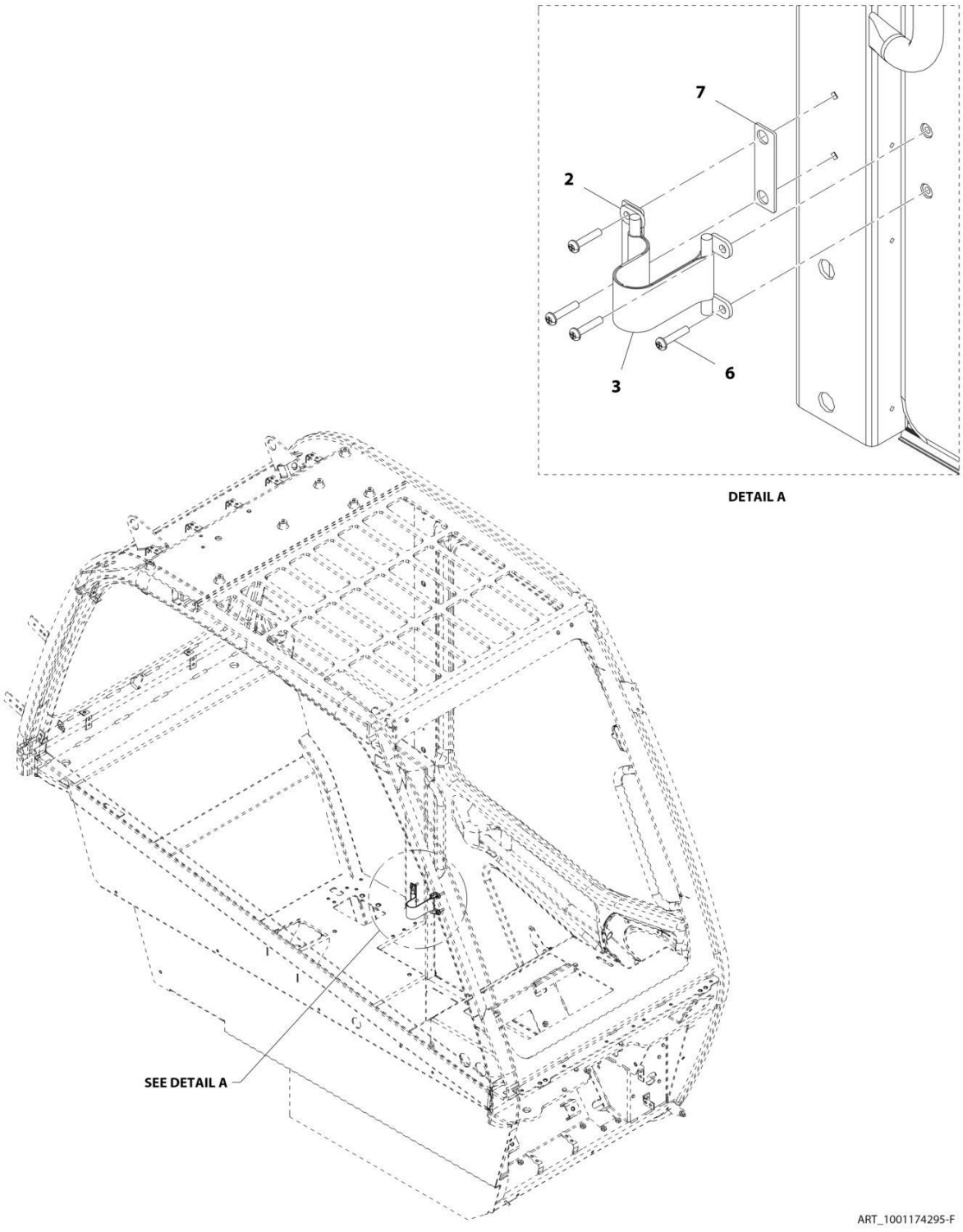


FIGURE 6-19. DOOR STRAP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174295	Ref	Door Strap Installation	F
2	1001230163	2	Bracket, Strap Holder	
3	1001212011	1	Strap, Door Hold Open	
6	8310559	4	Screw	
7	1001191091	1	Plate, Cab Door Strap	

FIGURE 6-20. DOOR UPPER GLASS ASSEMBLY (Prior to SN 0160076815)

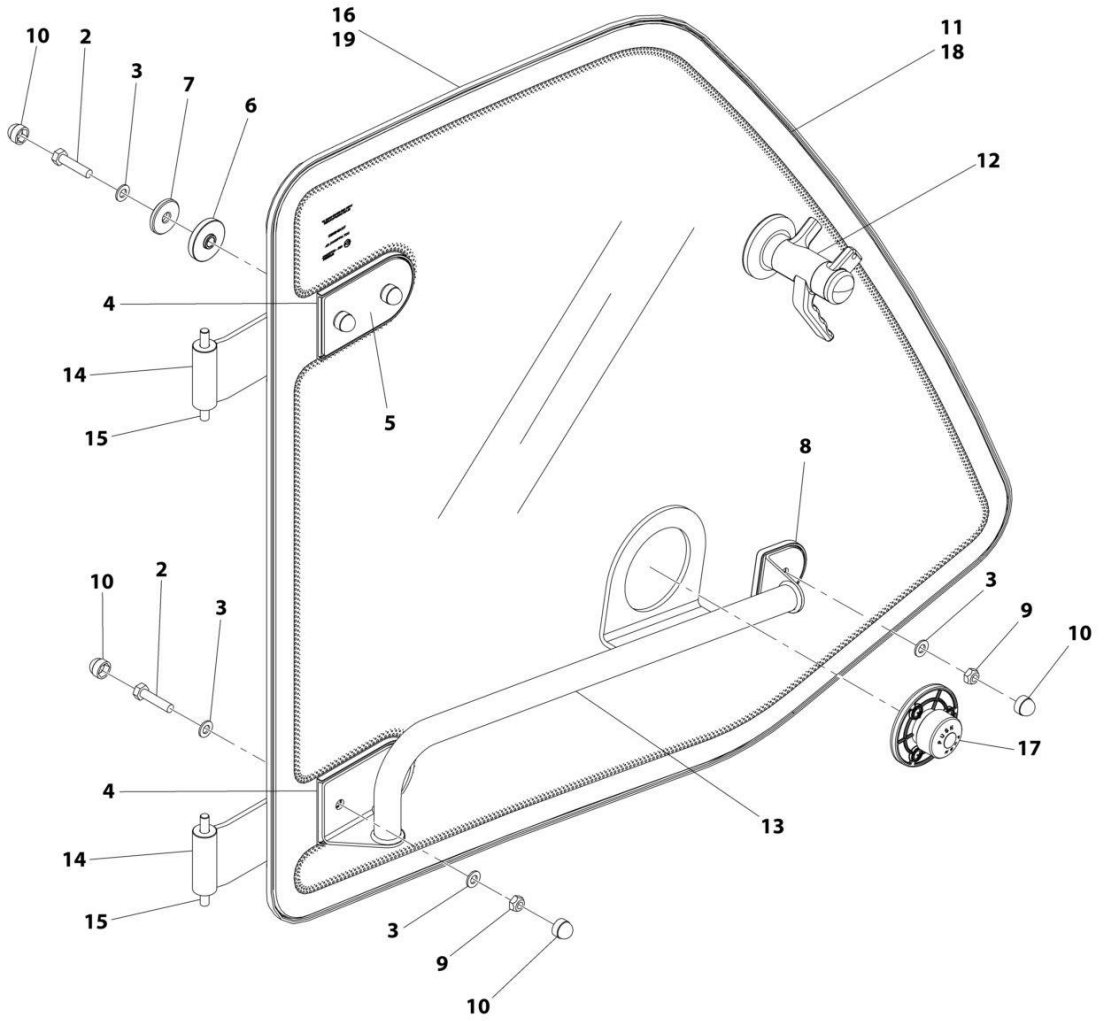


FIGURE 6-20. DOOR UPPER GLASS ASSEMBLY (Prior to SN 0160076815)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165186	Ref	Door Upper Glass Assembly	F
2	0760815	5	Bolt, M8X35	
3	4811900	10	Washer, 8MM	
4	1001002946	4	Mount, Hinge	
5	1001002947	1	Mount, Hinge	
6	1001002953	1	Mount, Hinge	
7	1001141246	1	Mount, Rubber	
8	1001002957	1	Mount, Latch	
9	1001008857	5	Nut, Lock	
10	1001096365	10	Cap, M8	
11	1001165187	1	Glass, Window	
12	1001165275	1	Latch, Window	
13	1001199915	1	Handle	
14	1001165459	2	Hinge	
15	1001166634	2	Pin, Hinge	
16	1001170944	1	Panel, Window Surround	
17	1001174321	1	Striker, Top Window	
18	1001111317	AR	Adhesive, Window Sealant	
19	1001200713	AR	Adhesive, Window Surround	

FIGURE 6-21. DOOR UPPER GLASS ASSEMBLY (SN 0160076815 to Present)

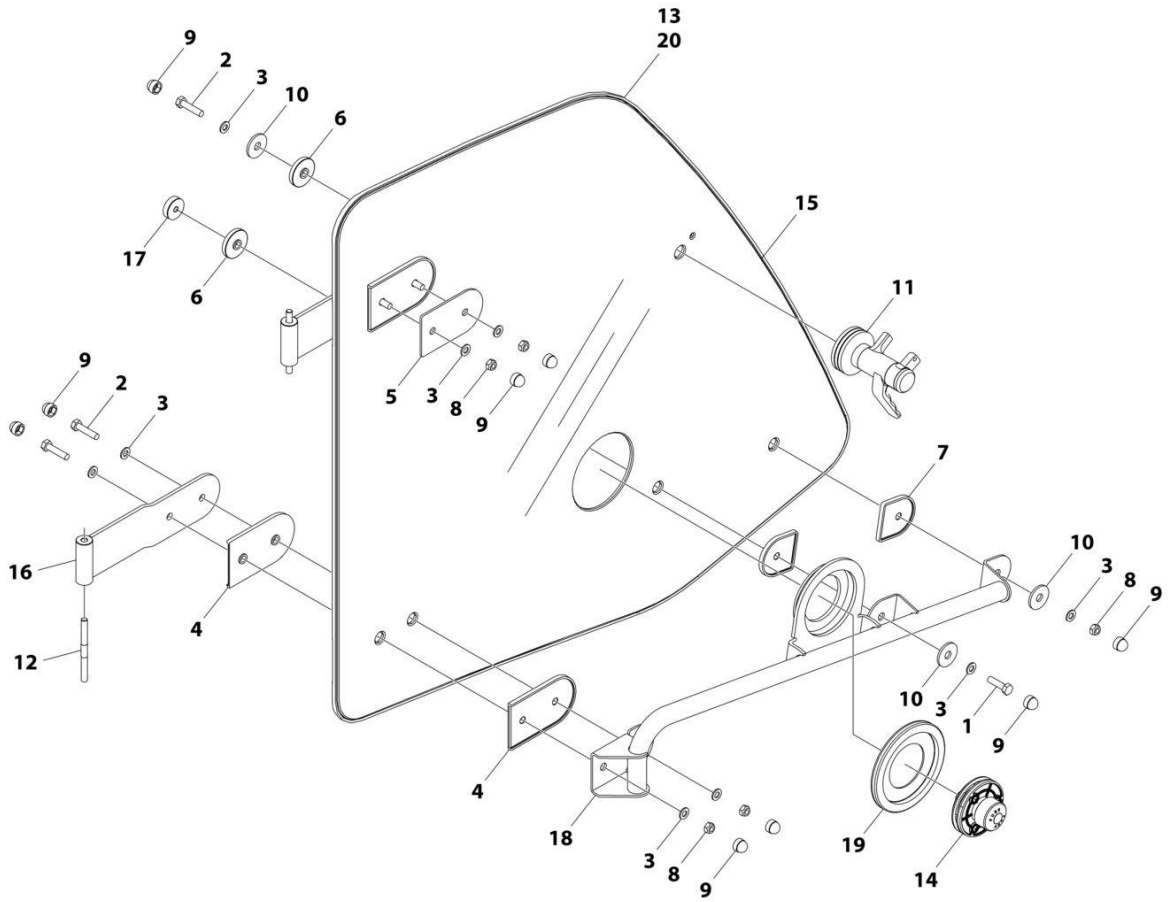


FIGURE 6-21. DOOR UPPER GLASS ASSEMBLY (SN 0160076815 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001205532	Ref	Door Upper Glass Assembly	G
1	0760812	1	Bolt, M8X25	
2	0760815	5	Bolt, M8X35	
3	4811900	11	Washer, 8MM	
4	1001002946	4	Mount, Hinge	
5	1001002947	1	Mount, Hinge	
6	1001002953	2	Mount, Rubber	
7	1001002957	2	Mount, Latch	
8	1001008857	5	Nut, Lock	
9	1001096365	11	Cap, M8	
10	1001141246	3	Mount, Rubber	
11	1001165275	1	Latch, Window	
12	1001166634	2	Pin, Hinge	
13	1001170944	1	Panel, Window Surround	
14	1001174321	1	Striker, Top Window	
15	1001204066	1	Glass, Window	
16	1001204115	2	Hinge	
17	1001222741	1	Buffer, Cab	
18	1001204120	1	Handle	
19	1001213331	1	Gasket	
20	1001215531	AR	Adhesive	

FIGURE 6-22. EROPS CAB INSTALLATION

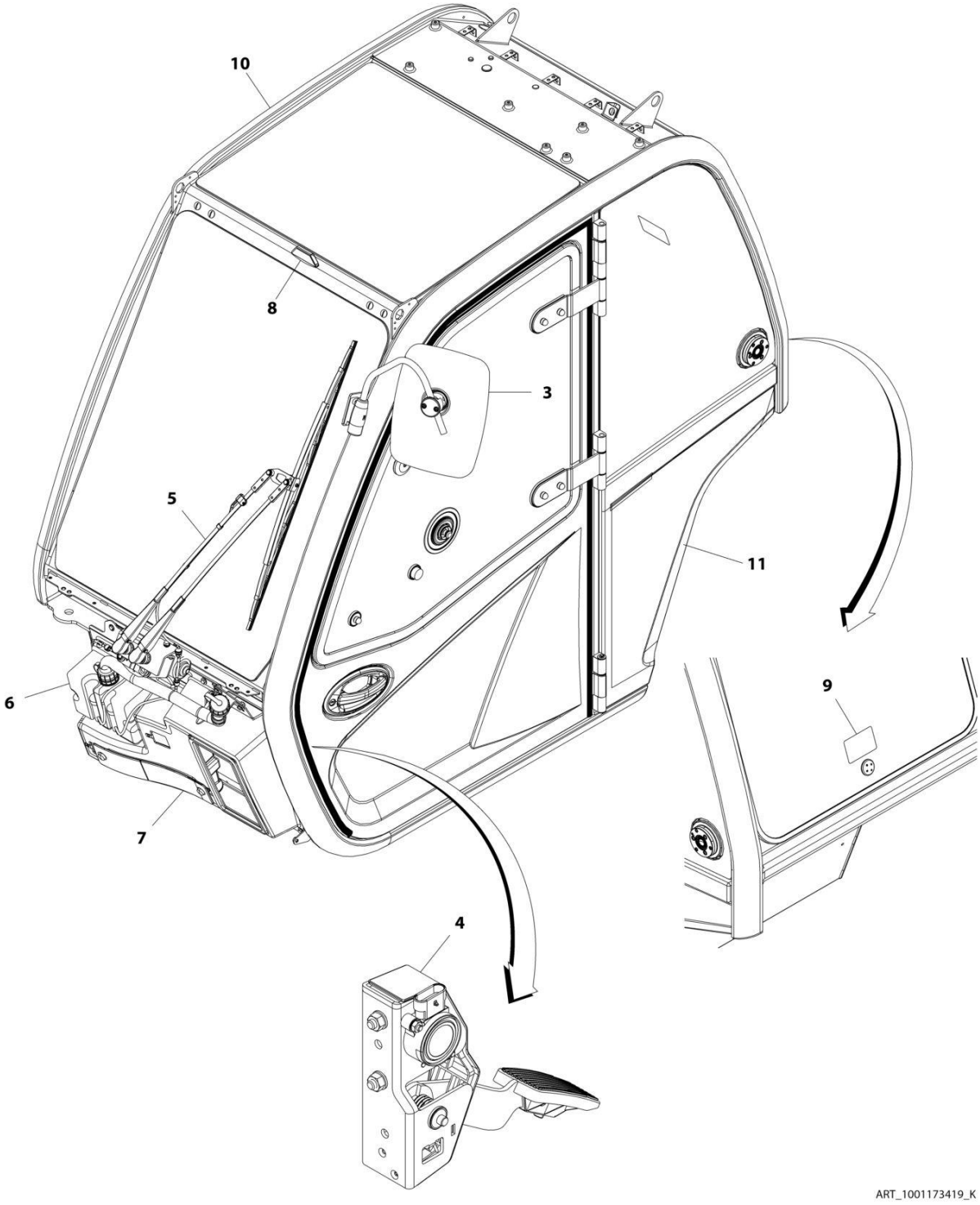


FIGURE 6-22. EROPS CAB INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173419	Ref	EROPS CAB INSTALLATION	K
3	1001160508	Ref	Installation, Mirror (See Separate Breakdown in this Section)	
4	1001161499	Ref	Installation, Accelerator Pedal (See Separate Breakdown in Controls Section)	
5	1001155447	Ref	Installation, Front Wiper (See Separate Breakdown in this Section)	
6	1001162789	Ref	Installation, Washer Tank (See Separate Breakdown in this Section)	
7	1001170366	Ref	Installation, Front Cover (See Separate Breakdown in this Section)	
8	1001172401	Ref	Installation, Level Indicator (See Separate Breakdown in this Section)	
9	1001204598	1	Decal, Emergency Exit	
10	1001214326	Ref	Cab (See Separate Breakdown in this Section)	
11	1001214332	Ref	Installation, Enclosed Cab (See Separate Breakdown in this Section)	

FIGURE 6-23. ENCLOSED CAB TRIM INSTALLATION

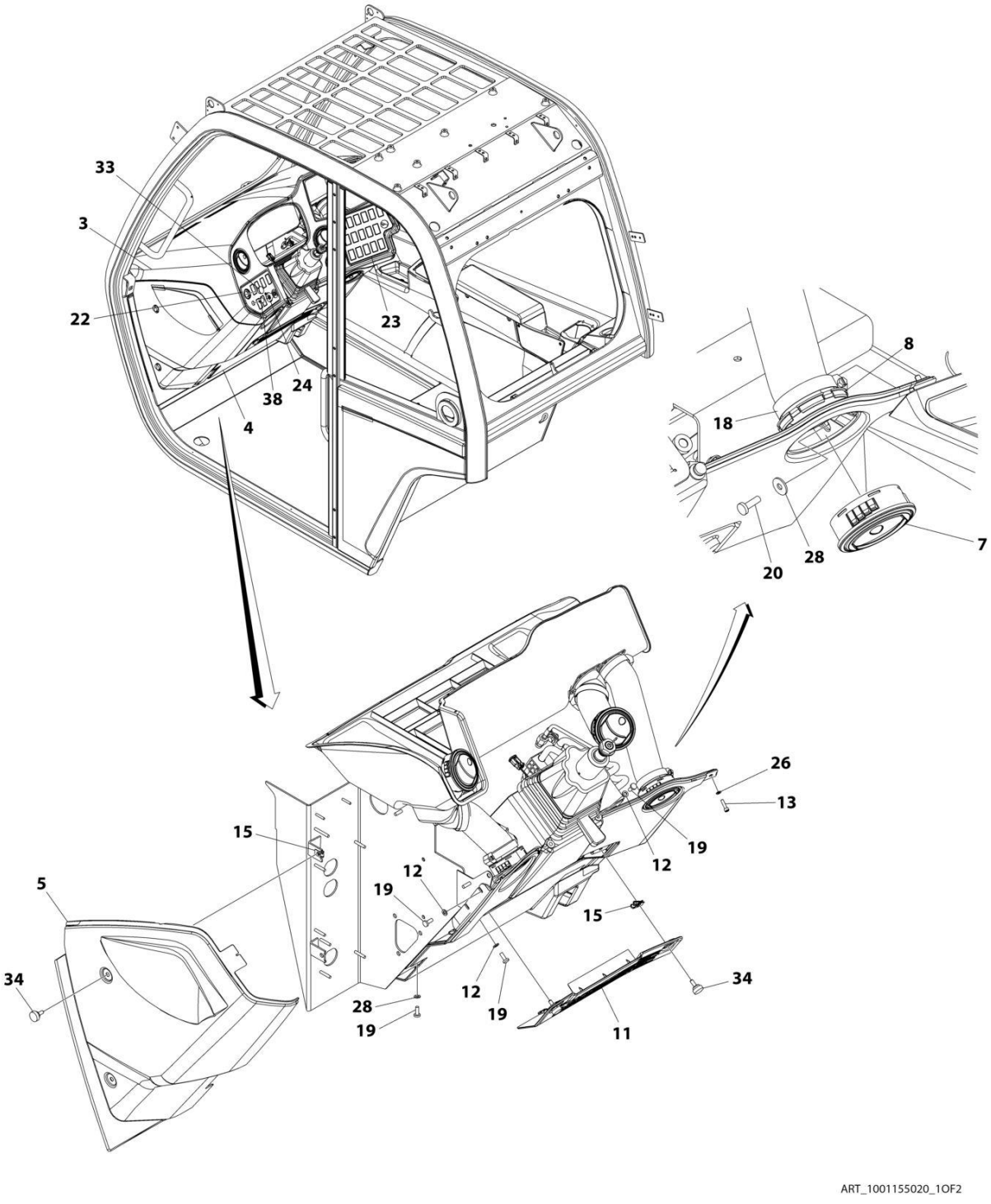


FIGURE 6-24. ENCLOSED CAB TRIM INSTALLATION

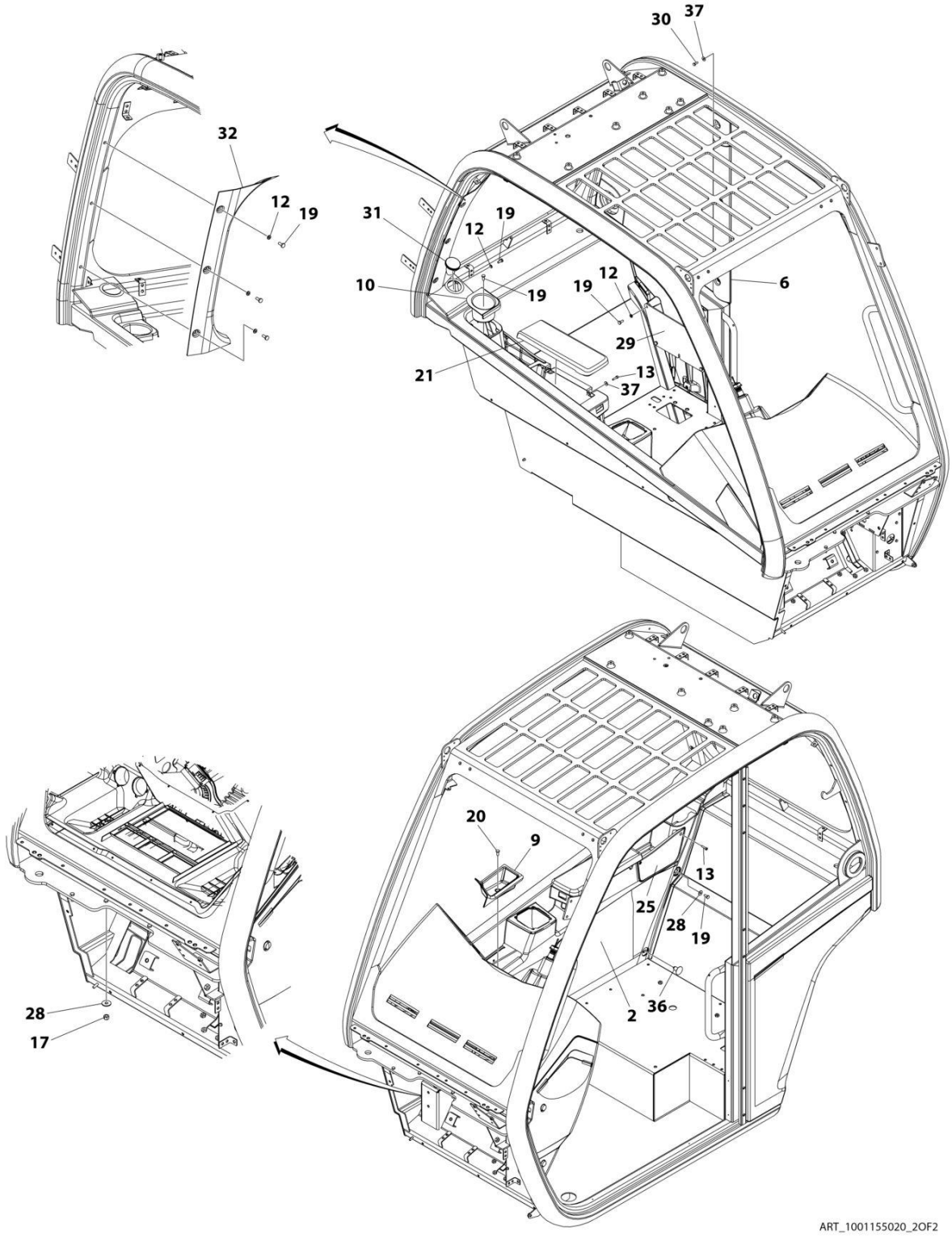


FIGURE 6-24. ENCLOSED CAB TRIM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155020	Ref	Enclosed Cab Trim Installation	N
2	1001169605	1	Cover, Side	
3	1001169604	1	Cover, Dash	
4	1001175903	1	Panel, Lower Dash	
5	1001161855	1	Panel, Cover	
6	1001219076	1	Panel, Cover	
7	1001147449	2	Vent, Air	
8	1001149278	2	Vent, Connector	
9	1001169603	1	Panel, Trinket Tray	
10	1001170518	1	Holder, Cup	
11	1001170504	1	Panel, Recirculation Grille Cover	
12	4811700001	14	Washer, M6	
13	4031608001	5	Bolt, M5X20	
15	8305919	4	Nut, M6	
17	3290605	2	Nut, Lock M6X1 Grade 8	
18	8405201	2	Clamp, Gear	
19	4010608002	18	Screw, Posi-Drive, M6X16	
20	4010610002	1	Screw, M6X20	
21	1001161854	1	Armrest (See Separate Breakdown in this Section)	
22	1001268846	1	Plate, LH Switch	
23	1001219865	1	Plate, RH Switch	
24	1001184975	1	Decal, HVAC	
25	1001173965	1	Bezel, RH	
26	4811600	1	Washer, M5	
28	4811702001	6	Washer, M6	
29	1001185179	1	Panel, LH Rear Cover	
30	4010508002	3	Screw, Posi-Drive M5X16	
31	1001223265	1	Plug	
32	1001191617	1	Panel, RH C Post	
33	1001190589	1	Blanking Plug	
34	1001208308	4	Thumb Screw, M6X15	
36	1001211907	1	Screw	
37	4811602001	5	Washer, Flat	
38	1001207963	1	Plug	

FIGURE 6-25. ENCLOSED CAB ASSEMBLY

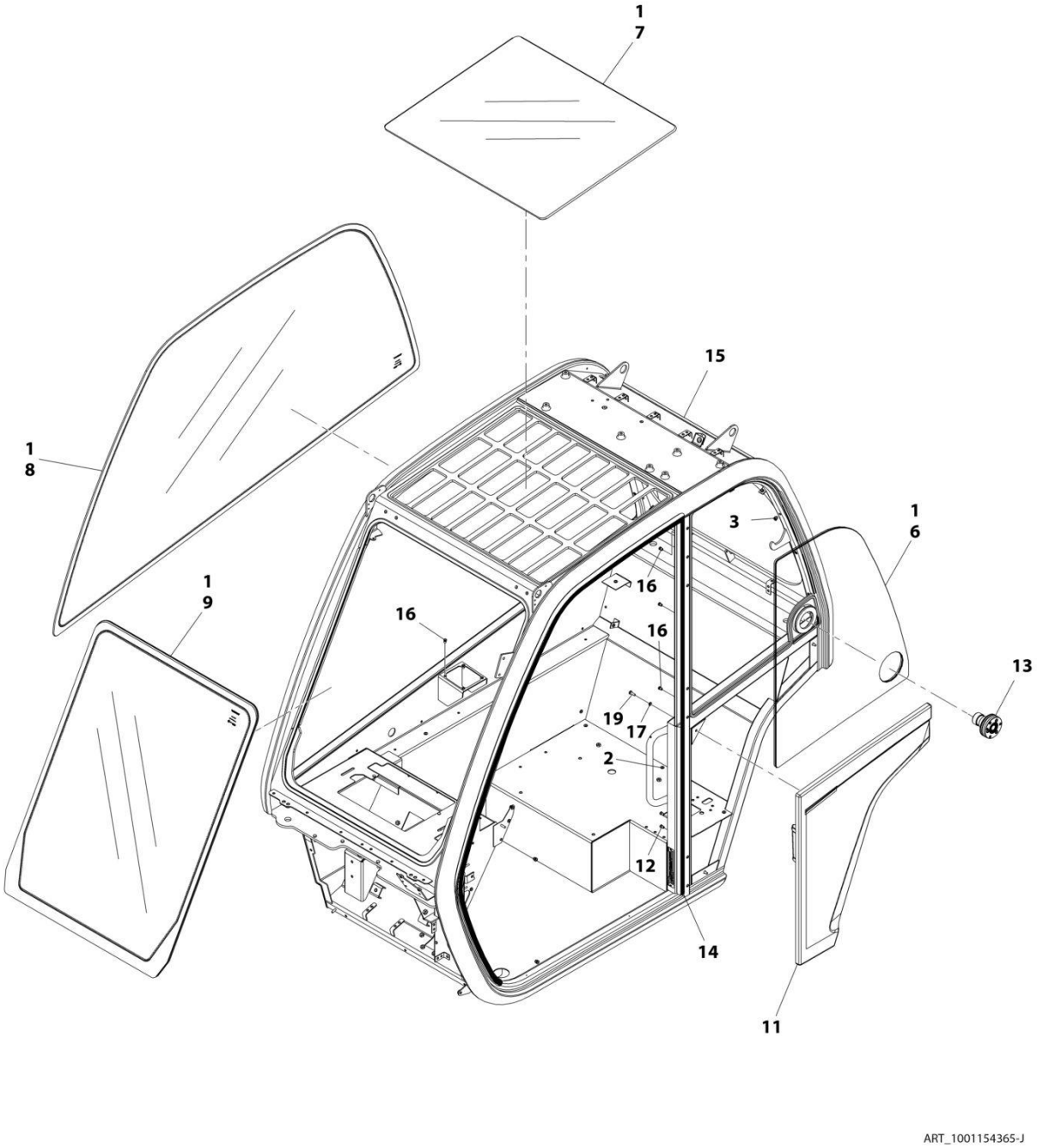


FIGURE 6-25. ENCLOSED CAB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001154365	Ref	Enclosed Cab Assembly	J
1	1001111317	AR	Compound, Locking	
2	2080086	17	Rivnut, M6X1	
3	2080087	16	Rivnut, M8X1.25	
6	1001152915	1	Glass, LH Screen	
7	1001152934	1	Glass, Roof	
8	1001152947	1	Glass, RH Screen	
9	1001154419	1	Glass, Front	
11	1001229319	1	Panel, Cab Quarter	
12	1001172193	2	Rivnut, M5X0.8	
13	1001174320	1	Latch, Top Window	
14	1001227186	1	Seal, Cab Door	
15	See Note	NSS	Weldment, Cab (Note: Not available for purchase)	
16	1001195878	7	Rivnut, M5X0.8	
17	4811700	3	Washer, M6	
19	N.S.S.	3	Screw	

FIGURE 6-26. ENCLOSED CAB FRONT COVER INSTALLATION

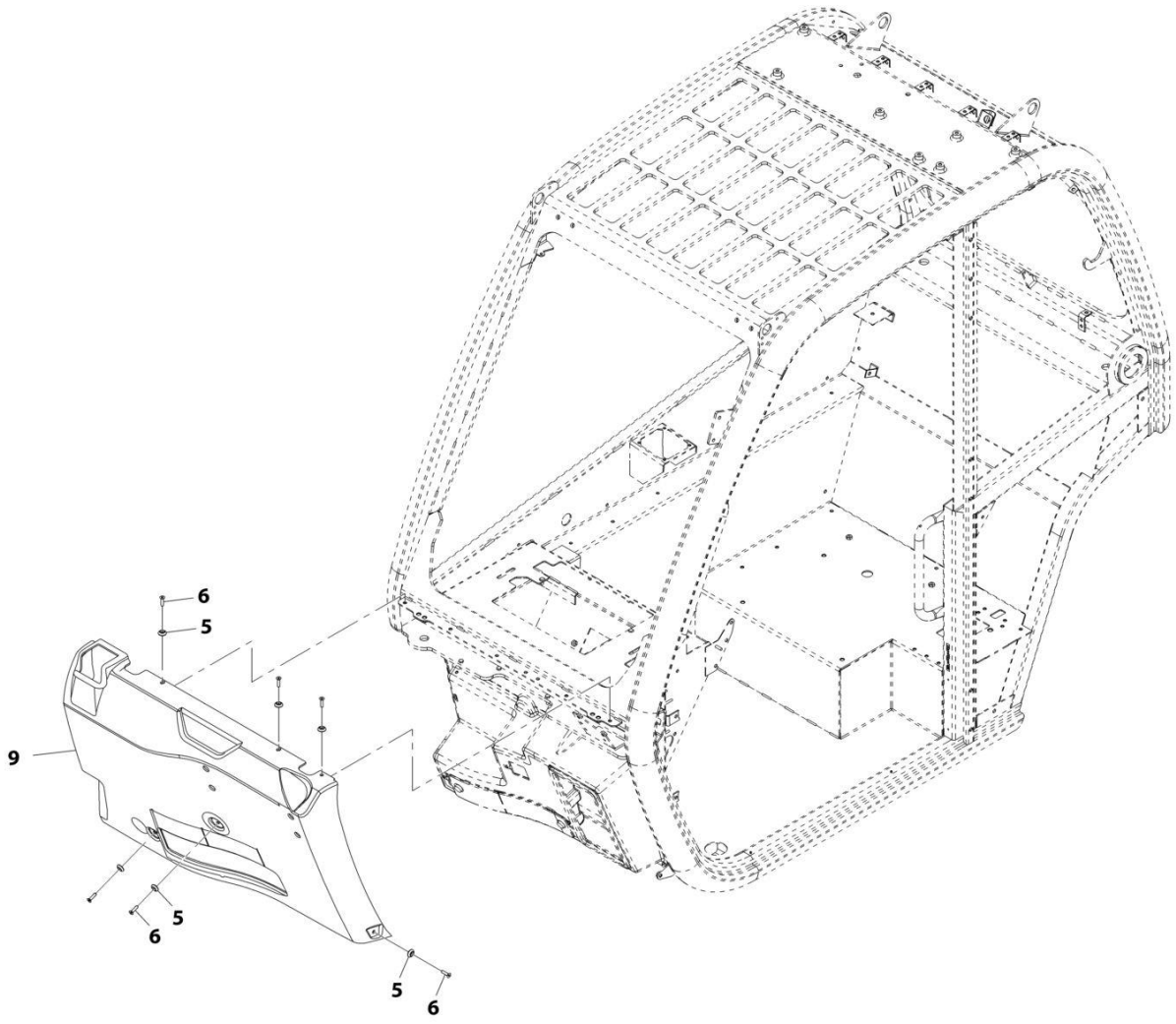
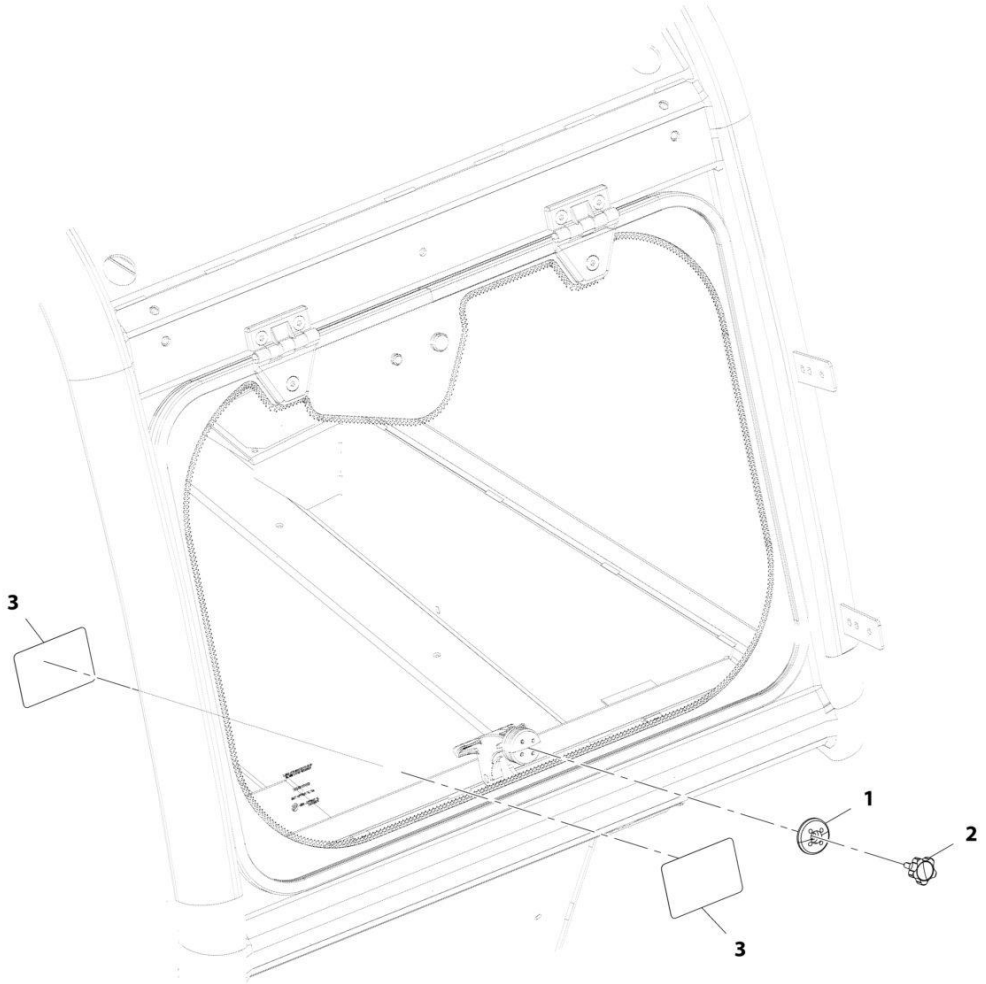


FIGURE 6-26. ENCLOSED CAB FRONT COVER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001192463	Ref	Enclosed Cab Front Cover with Cab Fender Installation, (no longer available, use 1001229551 for replacement)	E
	1001229551	Ref	Enclosed Cab Front Cover with Cab Fender Installation	A
1	3900379	6	Screw, M6X25	
2	1001097540	6	Washer, M6	
3	1001192464	Ref	Cover, (no longer available, use 1001229541 for replacement)	
3	1001229541	1	Cover	

FIGURE 6-27. EXTERNAL WINDOW RELEASE INSTALLATION (CAN & ISO)



ART_1001178826-C

FIGURE 6-27. EXTERNAL WINDOW RELEASE INSTALLATION (CAN & ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178826	Ref	External Window Release Installation (English/French)	C
1	1001179008	1	Cap, Latch Window	
2	1001179009	1	Knob	
3	1001204709	2	Decal, Emergency Exit (English/French)	

FIGURE 6-28. ENCLOSED CAB PLUG GROUP

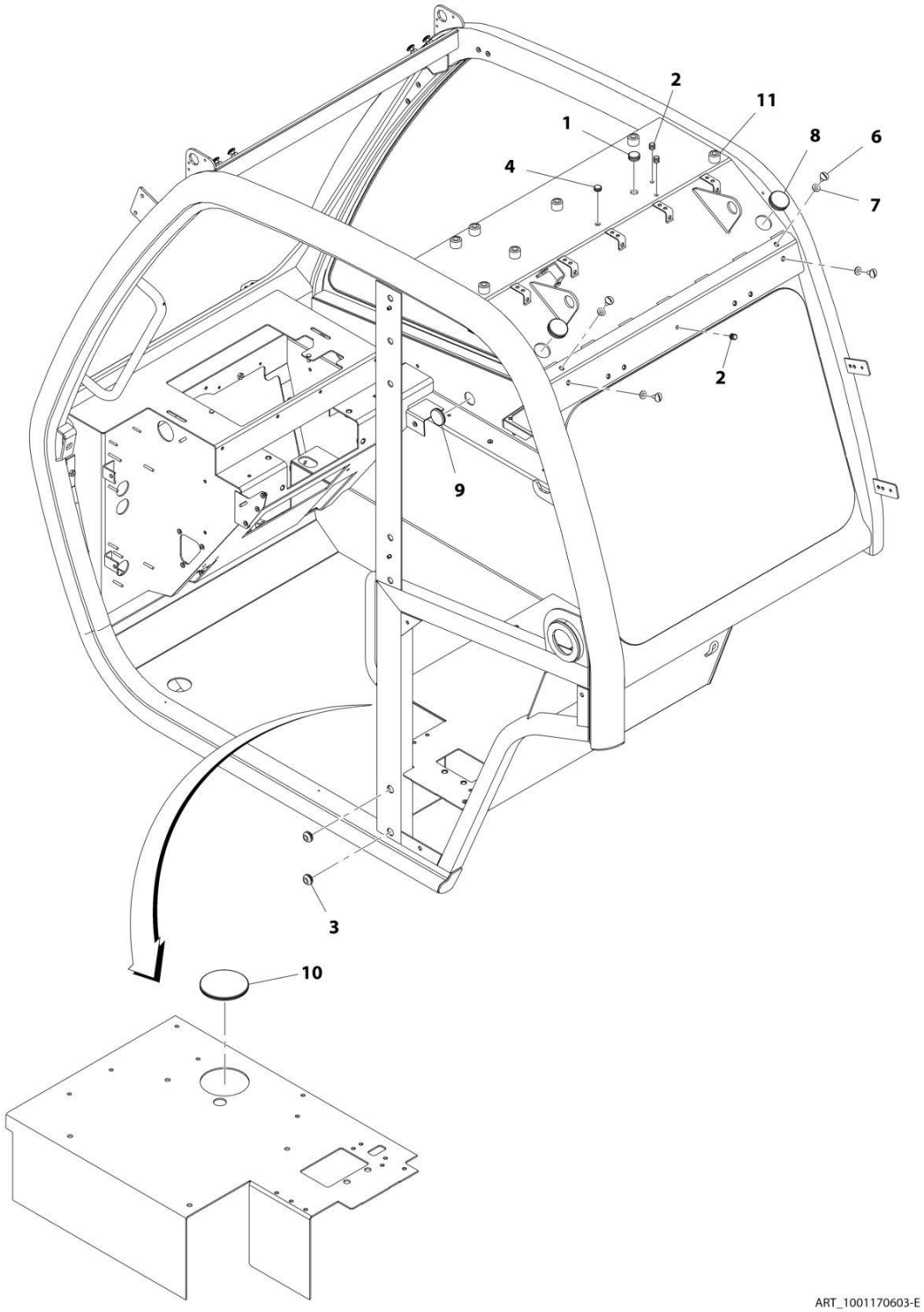


FIGURE 6-28. ENCLOSED CAB PLUG GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170603	Ref	Enclosed Cab Plug Group	E
1	1001176273	1	Plug	
2	1001176272	3	Plug	
3	1001143200	2	Plug	
4	1001176626	1	Plug	
6	1001181920	8	Screw, M8X16	
7	1001181921	8	Washer, Rubber M8	
8	1001182123	2	Plug	
9	1001182139	1	Plug	
10	1001209899	1	Plug	
11	1001219220	7	Cap, Vinyl Round	

FIGURE 6-29. FRONT DUCT COVER

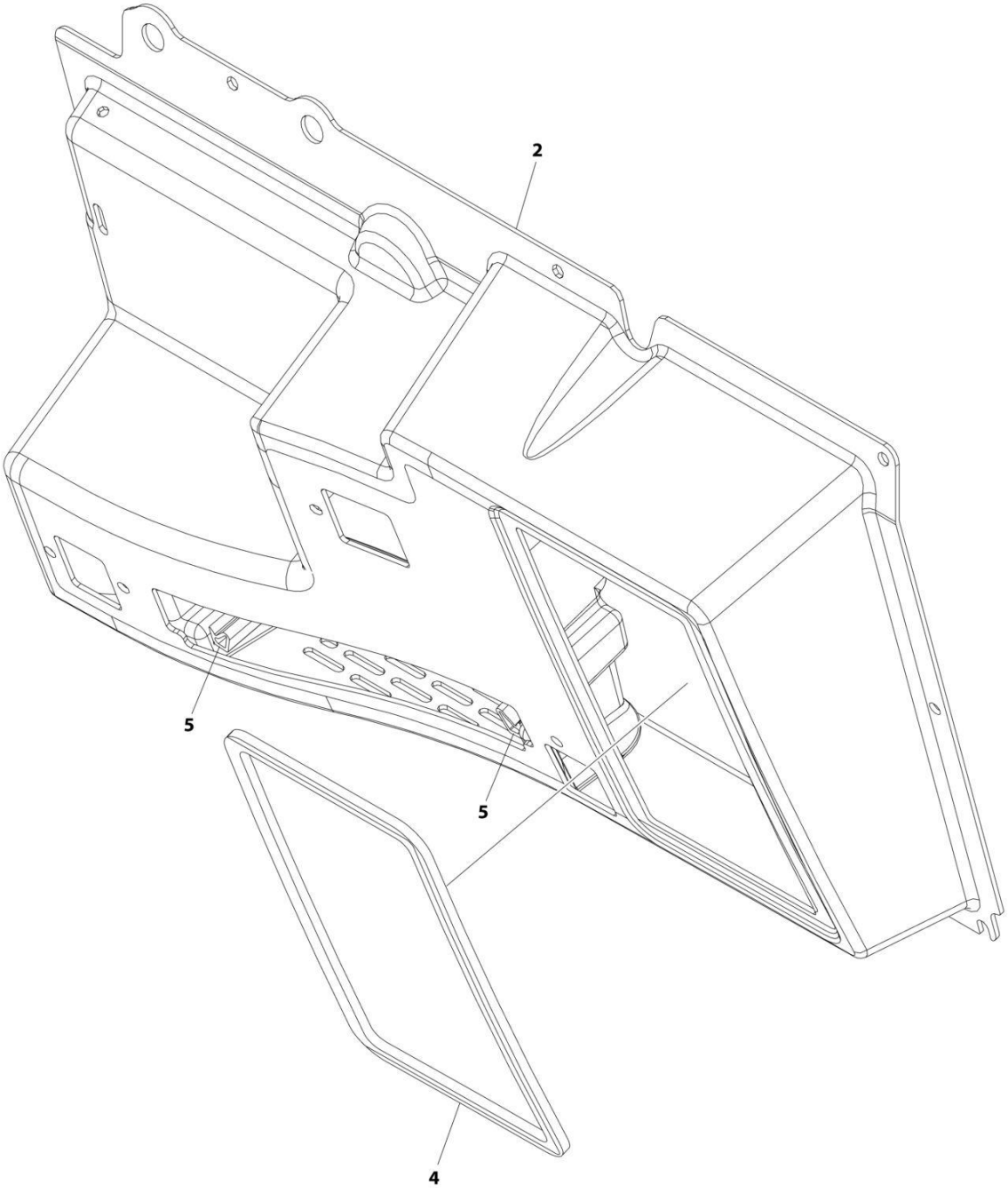
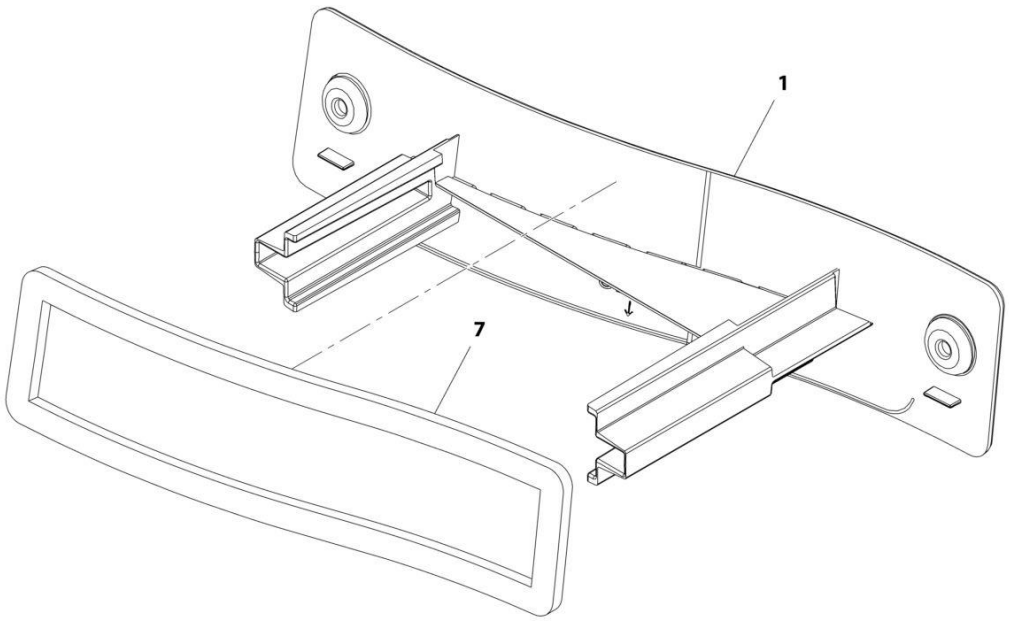


FIGURE 6-29. FRONT DUCT COVER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176121	Ref	FRONT DUCT COVER	H
2	1001170326	1	Cover, Front	
4	1001175470	1	Seal, Front Cab Panel	
5	1001270117	AR	Seal, Bulb	

FIGURE 6-30. FILTER TRAY PANEL



ART_1001175471-D

FIGURE 6-30. FILTER TRAY PANEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175471	Ref	Filter Tray Panel	D
1	1001170993	1	Panel, Front Inlet	
7	1001171767	1	Cab, Front Panel Seal	

FIGURE 6-31. FRONT COVER INSTALLATION (EROPS CAB)

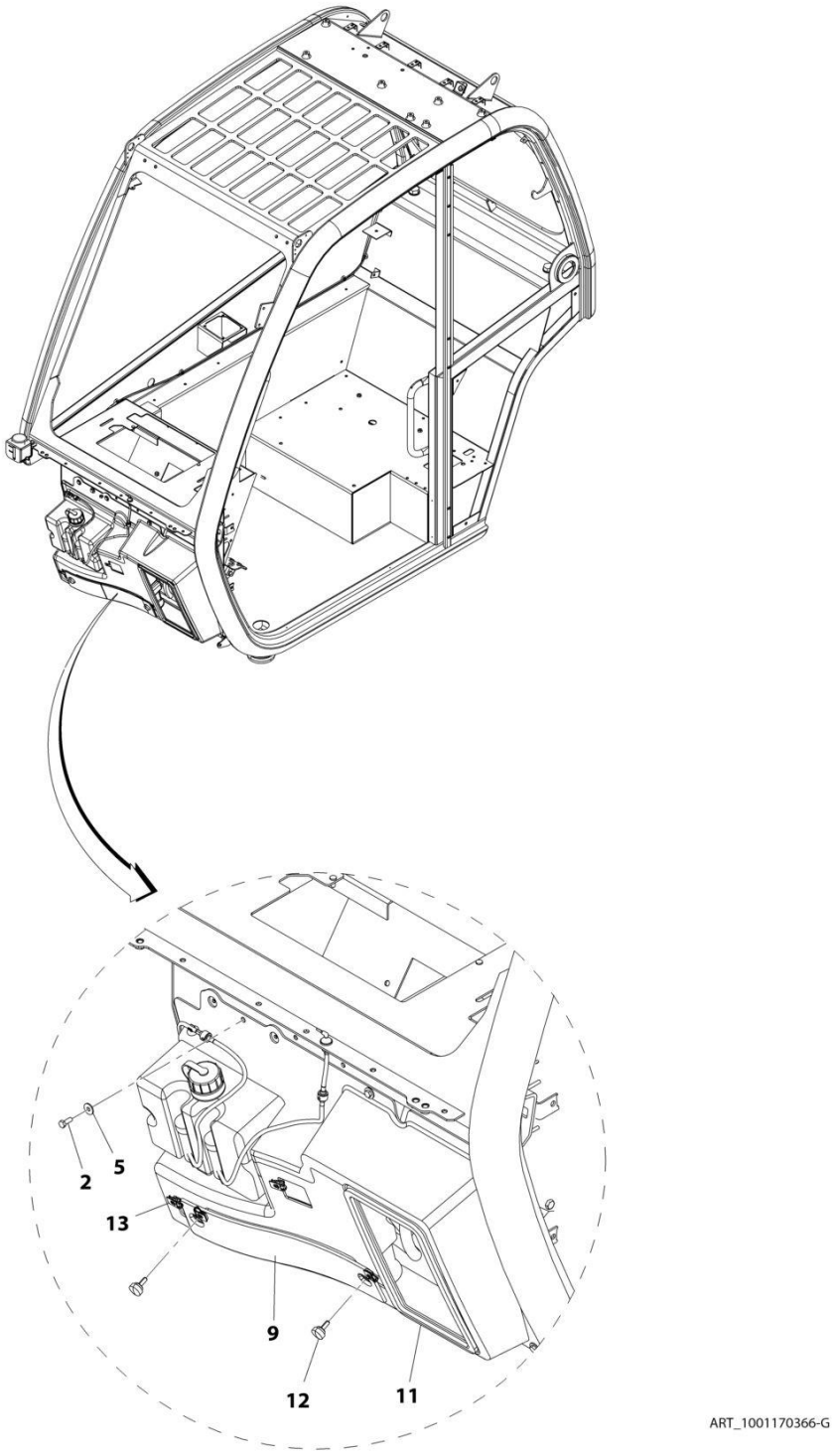


FIGURE 6-31. FRONT COVER INSTALLATION (EROPS CAB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170366	Ref	Front Cover Installation	G
2	0760608	7	Bolt, M6X16	
5	4811702	7	Washer, M6	
9	1001175471	1	Panel, Filter Tray (See Separate Breakdown in this Section)	
11	1001176121	1	Cover, Front Duct (See Separate Breakdown in this Section)	
12	2080092	2	Thumb Screw, M6X16	
13	8305919	4	Nut, M6	

FIGURE 6-32. FRONT COVER INSTALLATION (OROPS CAB)

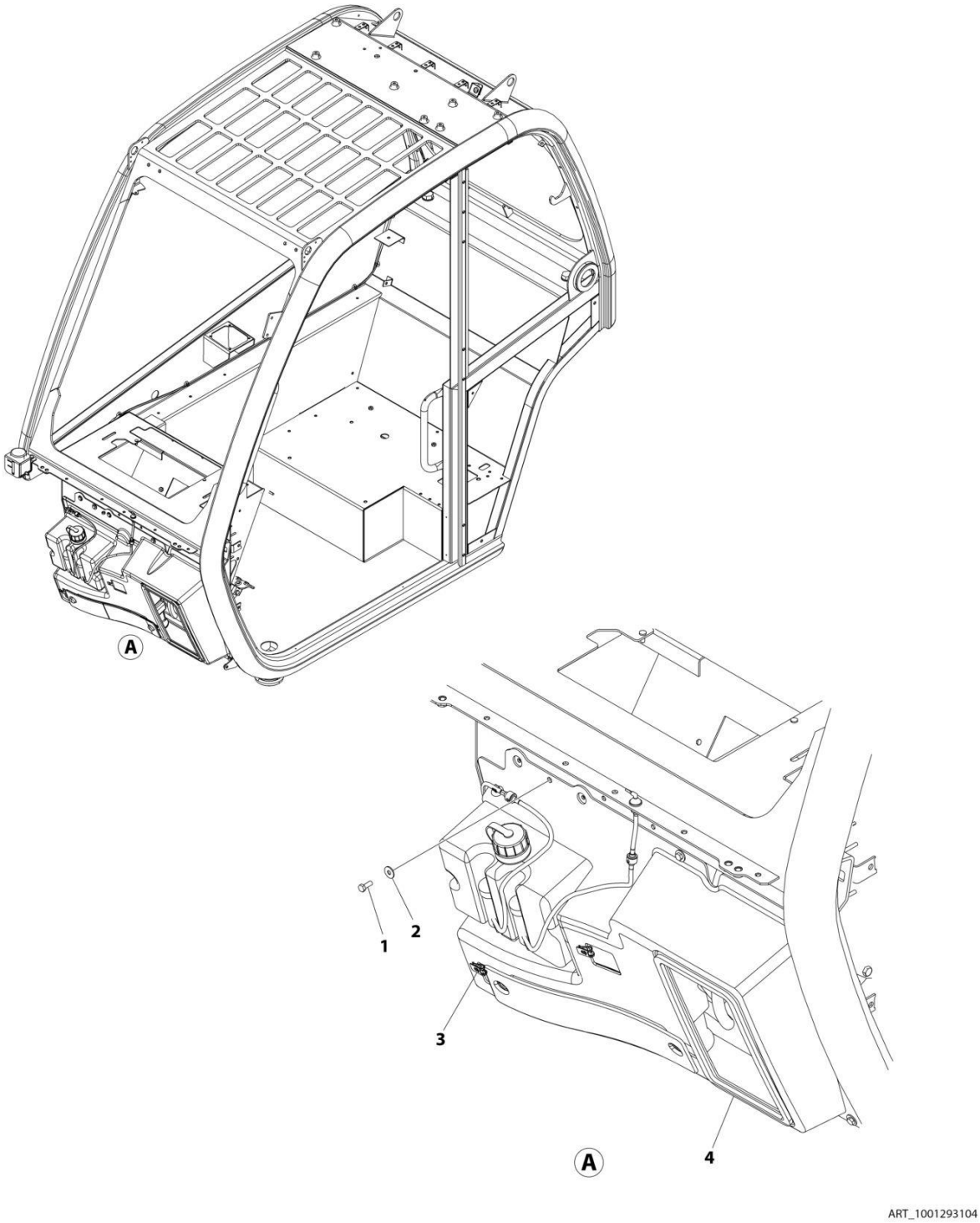


FIGURE 6-32. FRONT COVER INSTALLATION (OROPS CAB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001293104	Ref	FRONT COVER INSTALLATION	A
1	0760608	7	Bolt M6 x 16	
2	4811702	7	Washer M6	
3	8305919	2	Nut M6	
4	1001176121	1	Cover, Front Duct (See Separate Breakdown in this Section)	

FIGURE 6-33. FRONT CAB OUTRIGGER INSTALLATION

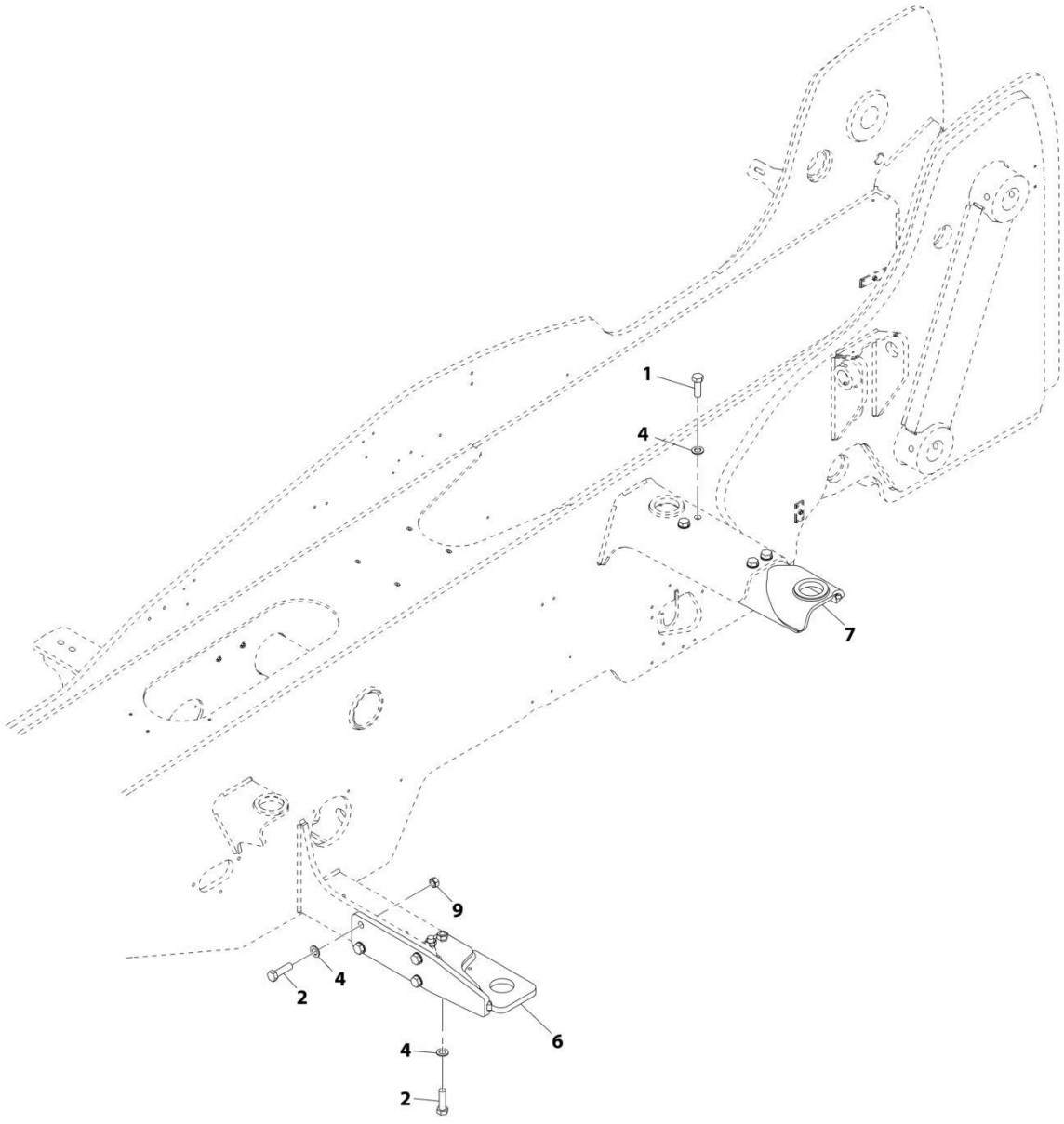


FIGURE 6-33. FRONT CAB OUTRIGGER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171890	Ref	Front Cab Outrigger Installation	E
1	0712020	4	Bolt, M20X60	
2	0712022	6	Bolt, M20X70	
4	4812500	10	Washer, M20	
6	1001208106	1	Bracket, Front Lower Cab	
7	1001210782	1	Bracket, Rear Cab Mount	
9	3292001	4	Hex Nut, M20X2.5	

FIGURE 6-34. FRONT WIPER INSTALLATION

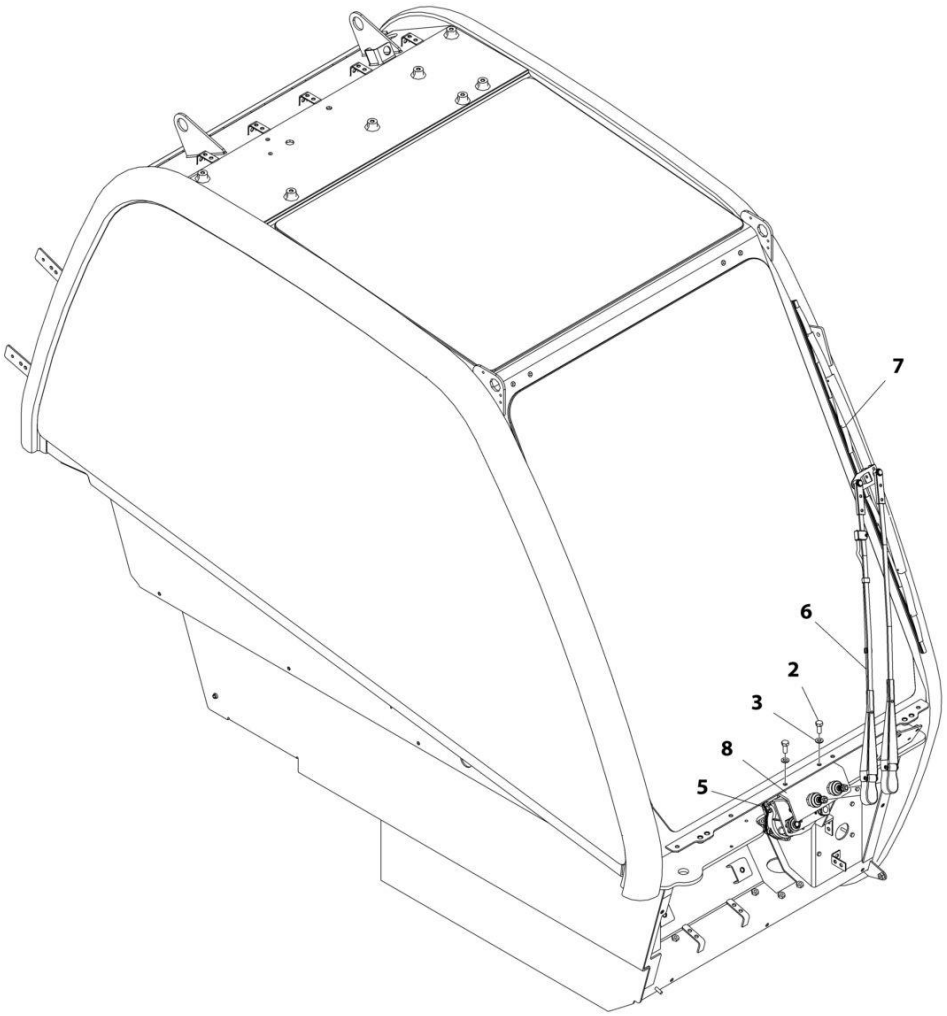


FIGURE 6-34. FRONT WIPER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155447	Ref	Front Wiper Installation	G
2	0760810	2	Bolt, M8X20	
3	4811900	2	Washer, M8	
5	1001214092	1	Motor, Front Wiper	
6	1001212369	1	Arm, Front Wiper	
7	1001141281	1	Blade, Wiper	
8	1001165637	1	Bracket	

FIGURE 6-35. HEATER AND A/C INSTALLATION

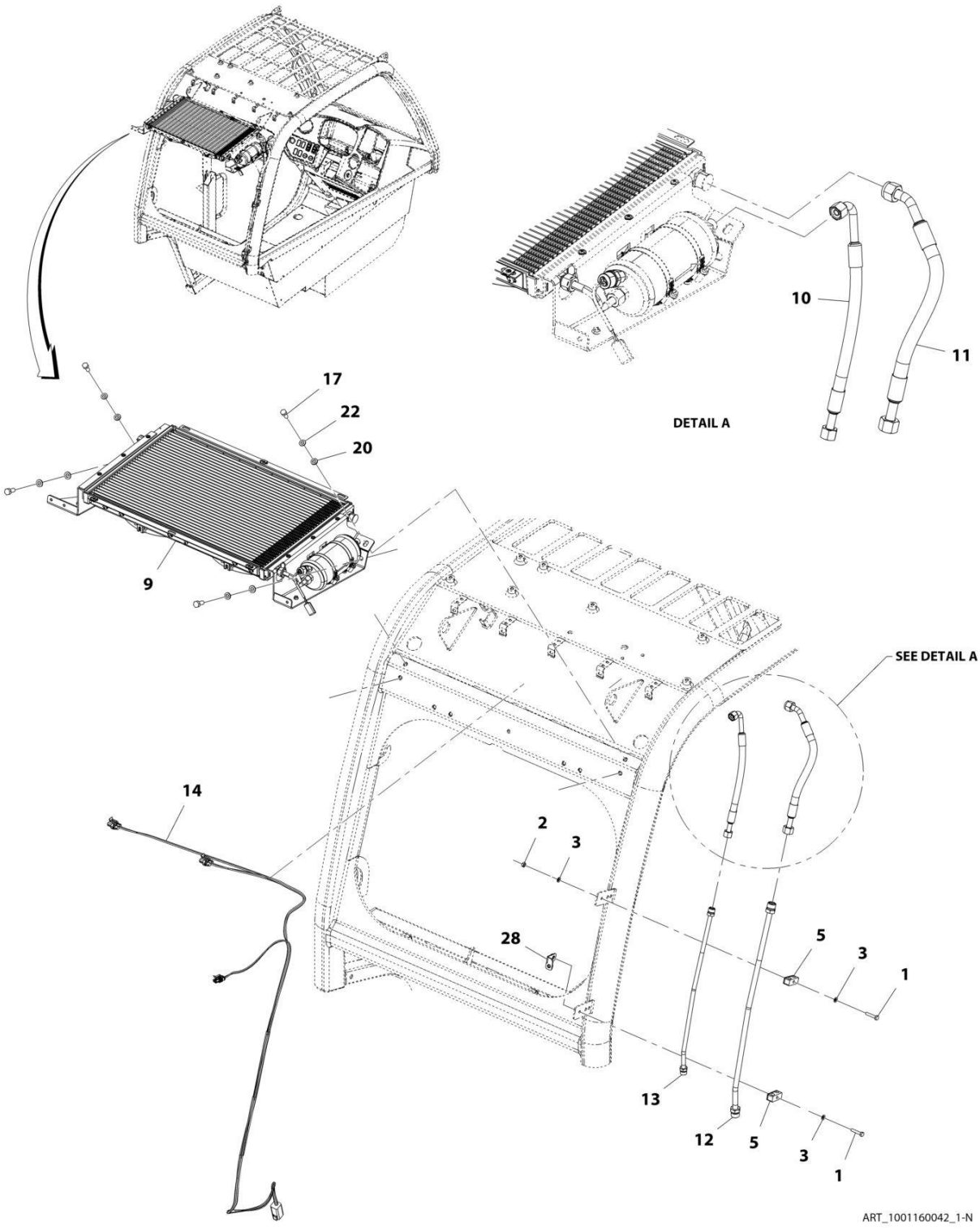


FIGURE 6-36. HEATER AND A/C INSTALLATION

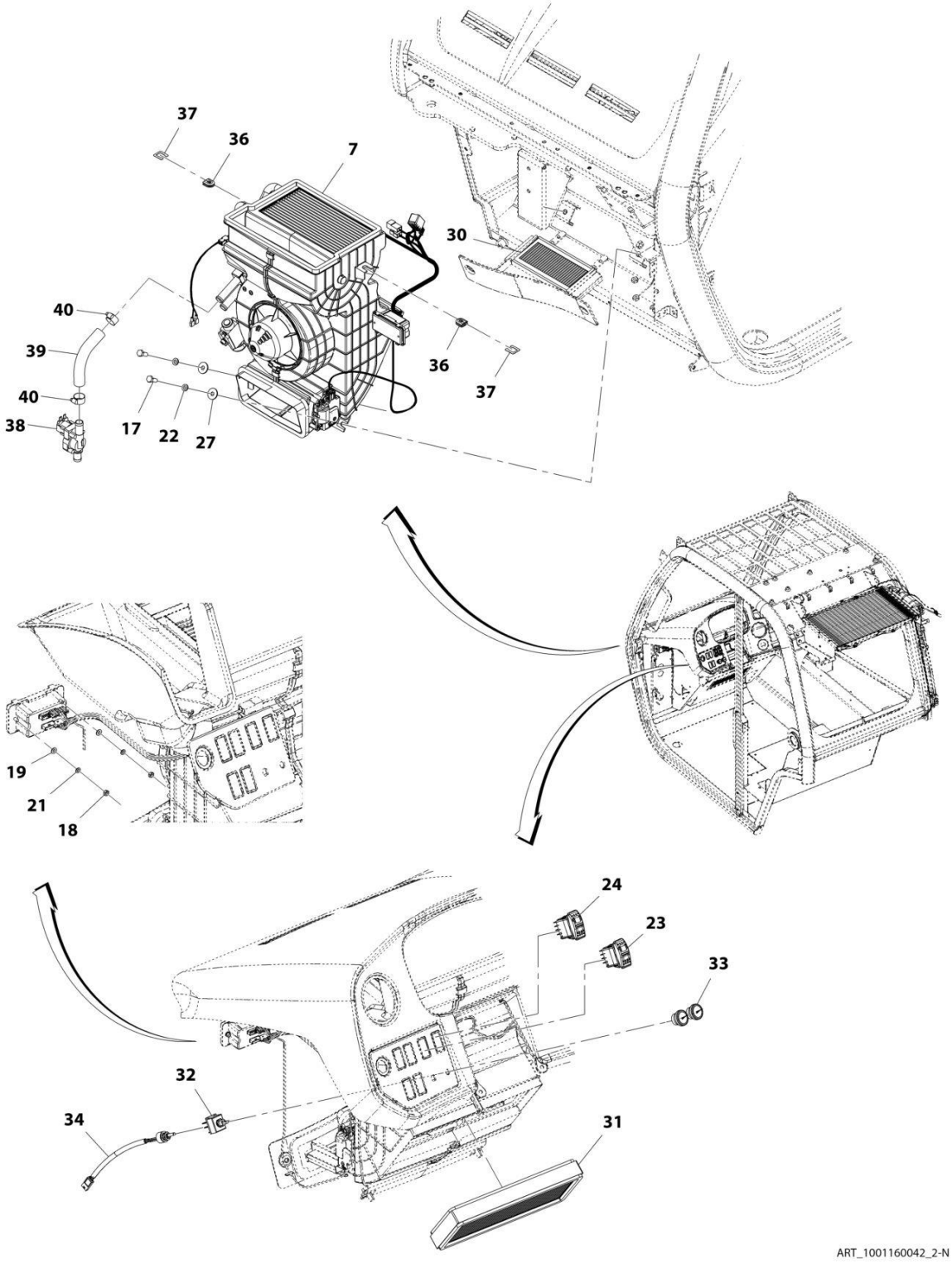


FIGURE 6-36. HEATER AND A/C INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160042	Ref	Heater and A/C Installation (Cab Parts)	N
1	0700614	2	Bolt, M6X30	
2	3290601	1	Nut, M6X1	
3	4811700	3	Washer, M6	
5	1001145539	2	Support, Pipe	
7	1001188303	1	Assembly, Heater and A/C (See Separate Breakdown in this Section)	
9	1001162953	1	Assembly, Cab Condenser (See Separate Breakdown in this Section)	
10	1001168327	1	Hose	
11	1001168330	1	Hose	
12	1001168331	1	Tube	
13	1001168456	1	Tube	
14	1001169151	1	Harness, A/C Option (See Separate Breakdown in ELECTRICAL Section)	
17	0760810	6	Bolt, M8X20 GR8.8	
18	3290401	2	Nut, M4X0.7	
19	4811400	2	Washer, M4	
20	4811900	4	Washer, M8	
21	4831400	2	Washer, Lock M4	
22	4831900	6	Washer, Lock M8	
23	1001159925	1	Switch, HVAC Recycle	
24	1001160326	1	Switch, HVAC On/Off	
27	4811902	2	Washer, M8	
28	1001178170	1	Bracket	
30	1001218996	1	Filter, HVAC Fresh Air	
31	1001172553	1	Filter, HVAC Air Recirculation	
32	1001172547	1	Switch, HVAC Rotary 3 Speed	
33	1001172550	2	Knob, HVAC Control	
34	1001218529	1	Cable, HVAC	
35	1320022	1	Clamp	
36	1001188590	2	Grommet	
37	1001218542	2	Shim	
38	1001221059	1	Valve, Water	
39	1001221295	1	Hose	
40	8410009	2	Clamp	

FIGURE 6-37. HEATER INSTALLATION

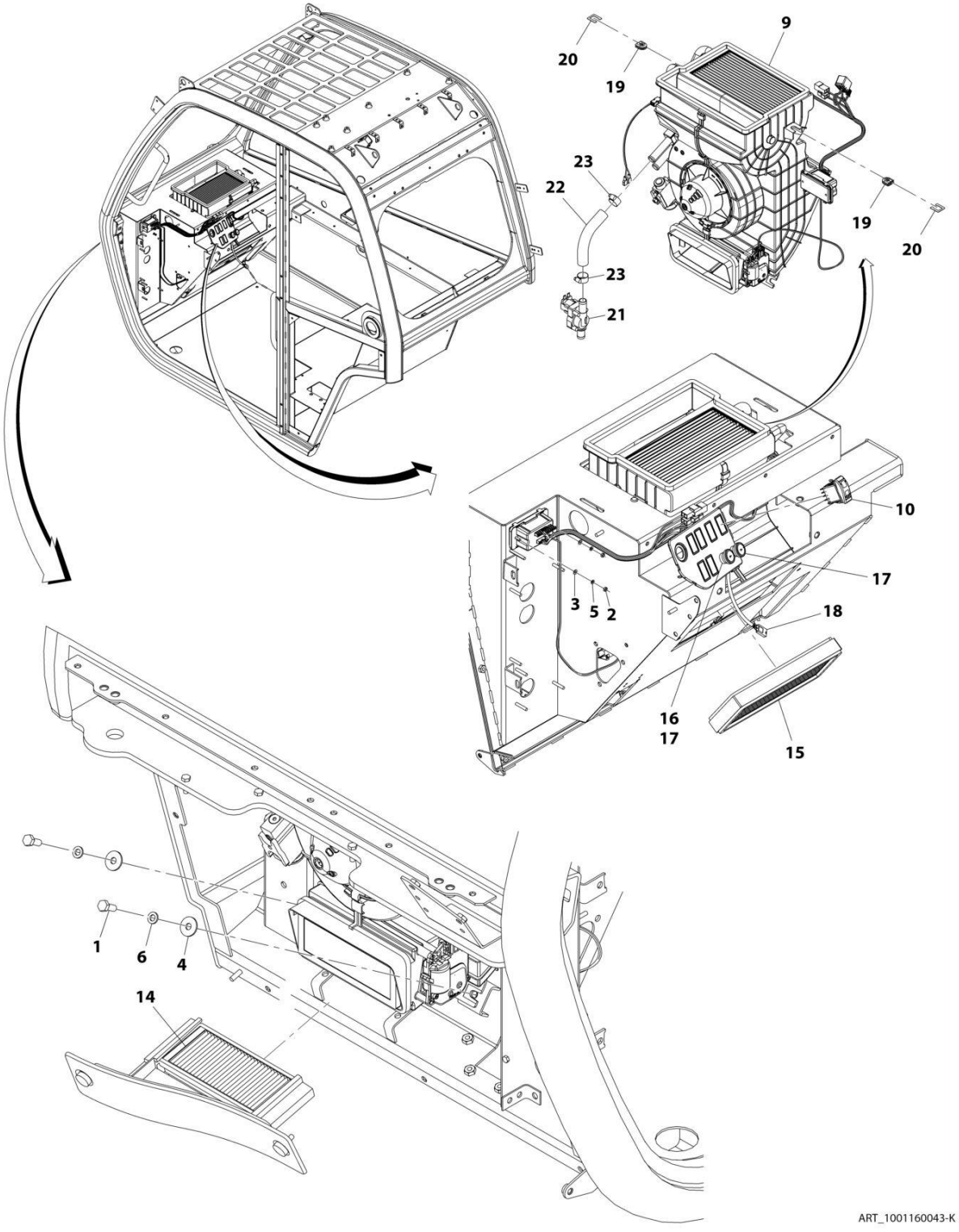


FIGURE 6-37. HEATER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160043	Ref	Heater Installation	K
1	0760810	2	Bolt, M8X20	
2	3290401	2	Nut, M4X0.7	
3	4811400	2	Washer, M4	
4	4811902	2	Washer, M8	
5	4831400	2	Washer, Lock M4	
6	4831900	2	Washer, M8	
9	1001161858	1	Assembly, Heater (See Separate Breakdown in this Section)	
10	1001159925	1	Switch, HVAC Recycle	
14	1001218996	1	Filter, HVAC Air	
15	1001172553	1	Filter, HVAC Recirculation Air	
16	1001172547	1	Switch, HVAC Rotary 3 Speed	
17	1001172550	2	Knob, HVAC Control	
18	1001218529	1	Cable, HVAC	
19	1001188590	2	Grommet	
20	1001218542	2	Shim	
21	1001221059	1	Valve, Water	
22	1001221295	1	House	
23	8410009	2	Clamp	

FIGURE 6-38. HEATER AND A/C ASSEMBLY

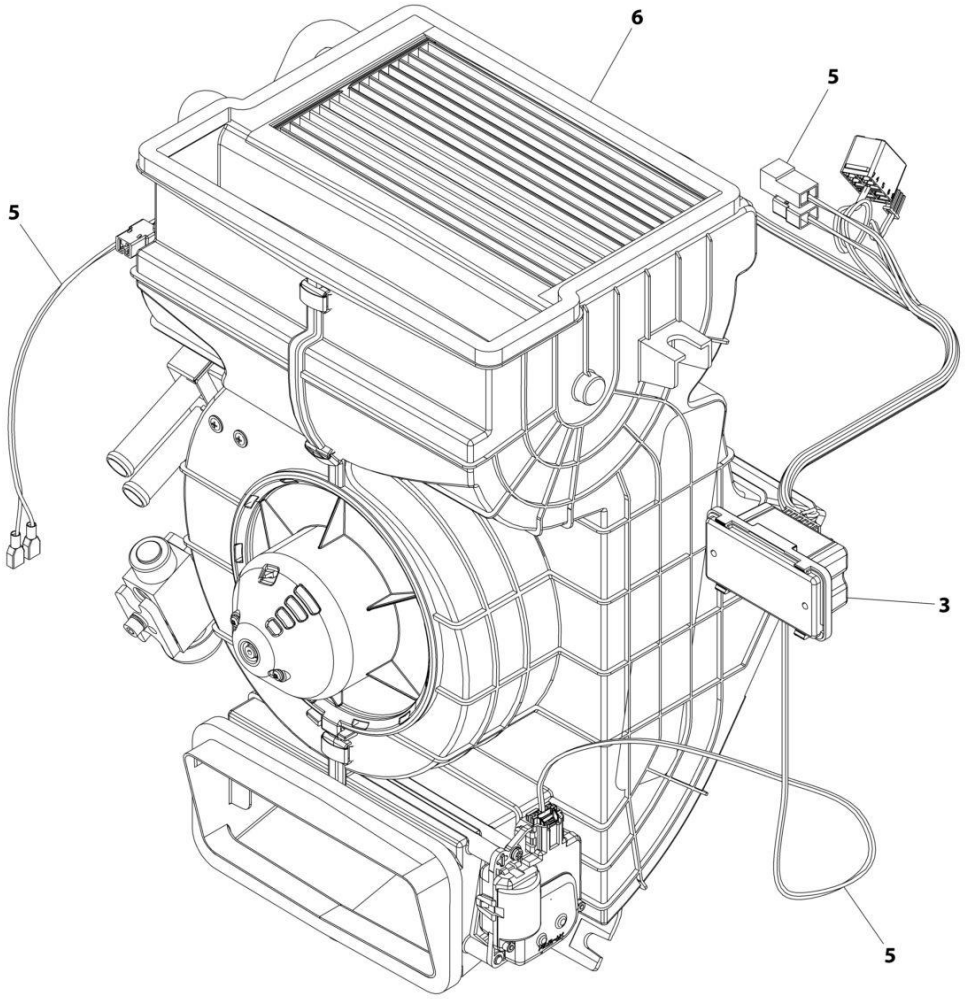


FIGURE 6-38. HEATER AND A/C ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001188303	Ref	Heater and A/C Assembly	H
3	1001172551	1	Actuator, HVAC Cab	
5	1001221056	1	Harness, HVAC Actuator (See Separate Breakdown in ELECTRICAL Section)	
6	1001221054	1	Heater and A/C (See Separate Breakdown in this Section)	

FIGURE 6-39. HEATER AND A/C (Prior to SN 0160080898)

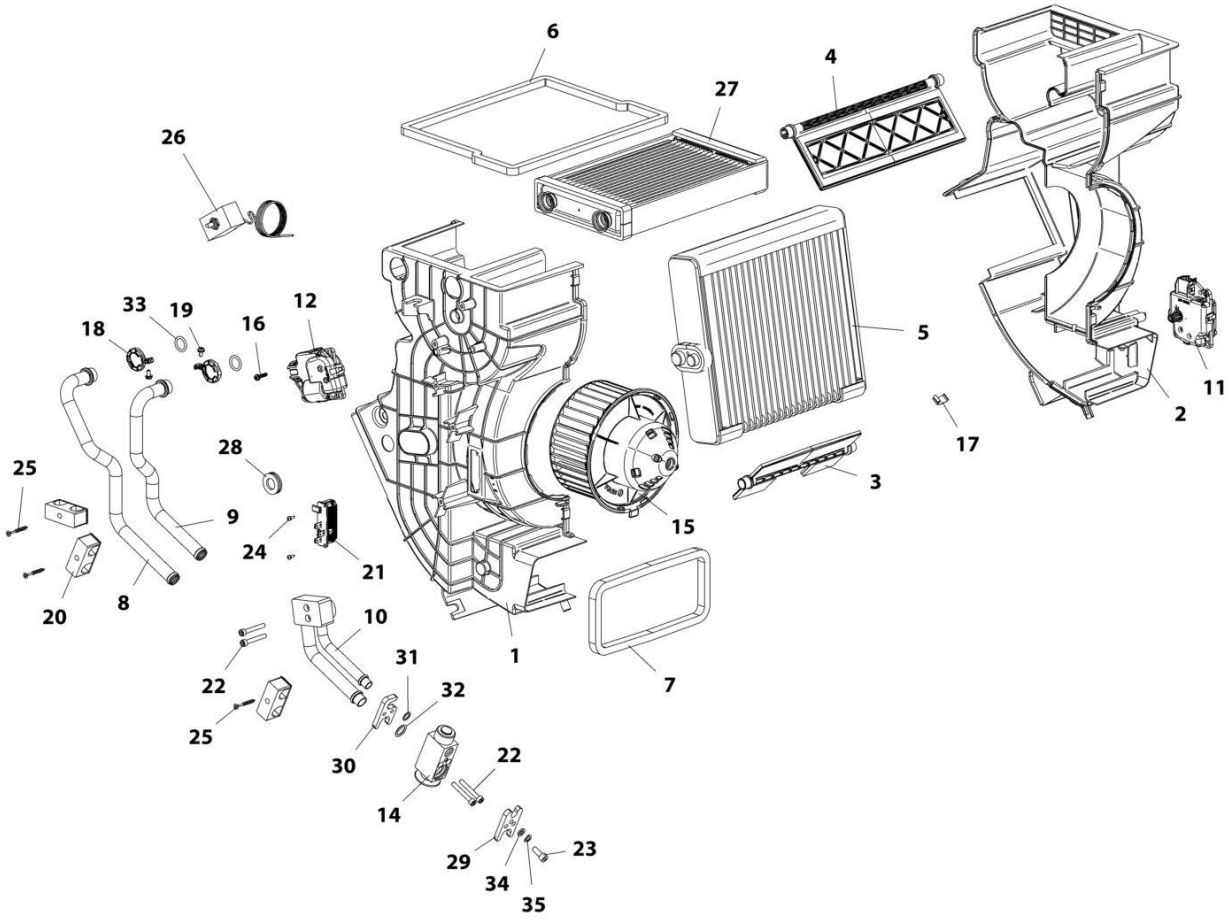


FIGURE 6-39. HEATER AND A/C (Prior to SN 0160080898)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001188275	NLA	Heater and A/C (no longer available, see items 1 through 35 for service or use 1001221054 for replacement)	D
1	1001166091	1	Housing, HVAC RH	
2	1001166092	1	Housing, HVAC LH	
3	1001184275	1	Foam, Heater Flap	
4	1001184278	1	Foam, Heater Mixing Flap	
5	1001184280	1	Evaporator, Heater	
6	1001184294	1	Seal, Heater Foam	
7	1001184295	1	Seal, Air Inlet Foam	
8	1001184296	1	Pipe, Heater Water	
9	1001184297	1	Pipe, Heater Water	
10	1001184427	1	Pipe, Heater	
11	1001188577	1	Actuator, Fresh/Recirculation Air	
12	1001188578	1	Actuator, Hot/Cold Mixing	
14	1001188592	1	Valve, HVAC Expansion	
15	1001188594	1	Fan, HVAC Centrifugal 12V	
16	1001188602	4	Screw, M4	
17	1001188603	9	Clamp, HVAC Case	
18	1001188604	2	Clamp, HVAC Pipe	
19	1001188610	2	Screw, M4X0.7	
20	1001188612	3	Clamp, Pipe	
21	1001188614	1	Resistor	
22	1001188618	4	Screw, M5	
23	1001188619	1	Screw, M6	
24	1001188720	2	Screw, M2.9X9.5	
25	1001188725	3	Screw, M4X35	
26	1001188728	1	Sensor, HVAC Thermostat	
27	1001188729	1	Radiator, Heater Core	
28	1001188733	1	Grommet	
29	1001188817	1	Clamp, Hose	
30	1001188818	1	Clamp, HVAC EVAP/Valve	
31	1001189023	1	O-Ring	
32	1001189024	1	O-Ring	
33	1001189025	2	O-Ring	
34	1001189048	1	Washer	
35	1001189054	1	Washer, Spring	

FIGURE 6-40. HEATER AND A/C (SN 0160080898 to Present)

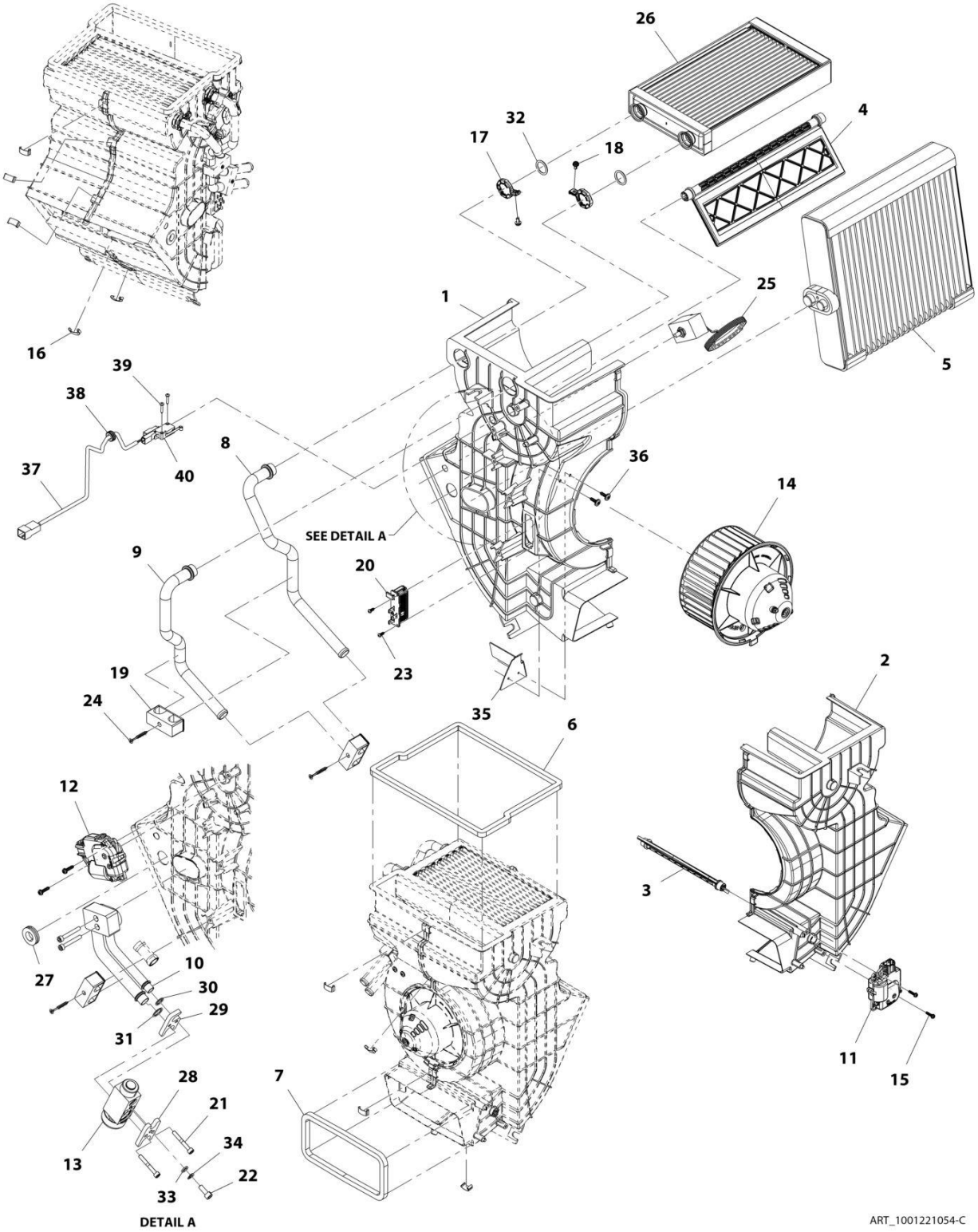


FIGURE 6-40. HEATER AND A/C (SN 0160080898 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221054	Ref	Heater and A/C	D
1	1001166091	1	Housing, HVAC RH	
2	1001166092	1	Housing, HVAC LH	
3	1001184275	1	Foam, Heater Flap	
4	1001184278	1	Foam, Heater Mixing Flap	
5	1001184280	1	Evaporator, Heater	
6	1001184294	1	Seal, Heater Foam	
7	1001184295	1	Seal, Air Inlet Foam	
8	1001184296	1	Pipe, Heater Water	
9	1001184297	1	Pipe, Heater Water	
10	1001184427	1	Pipe, Heater	
11	1001188577	1	Actuator, Fresh/Recirculation Air	
12	1001188578	1	Actuator, Hot/Cold Mixing	
13	1001188592	1	Valve, HVAC Expansion	
14	1001188594	1	Fan, HVAC Centrifugal 12V	
15	1001188602	4	Screw, M4	
16	1001188603	9	Clamp, HVAC Case	
17	1001188604	2	Clamp, HVAC Pipe	
18	1001188610	2	Screw, M4X0.7	
19	1001188612	3	Clamp, Pipe	
20	1001188614	1	Resistor	
21	1001188618	4	Screw, M5	
22	1001188619	1	Screw, M6	
23	1001188720	2	Screw, M2.9X9.5	
24	1001188725	3	Screw, M4X35	
25	1001188728	1	Sensor, HVAC Thermostat	
26	1001188729	1	Radiator, Heater Core	
27	1001188733	1	Grommet	
28	1001188817	1	Clamp, Hose	
29	1001188818	1	Clamp, HVAC EVAP/Valve	
30	1001189023	1	O-Ring	
31	1001189024	1	O-Ring	
32	1001189025	2	O-Ring	
33	1001189048	1	Washer	
34	1001189054	1	Washer, Spring	
35	1001221057	1	Plate	
36	1001221058	2	Screw	
37	1001228132	1	Harness, HVAC Sensor	
38	1001228140	1	Grommet	
39	1001228141	2	Screw	
40	1001228147	1	Valve, Water Sensor	

FIGURE 6-41. HEATER ASSEMBLY

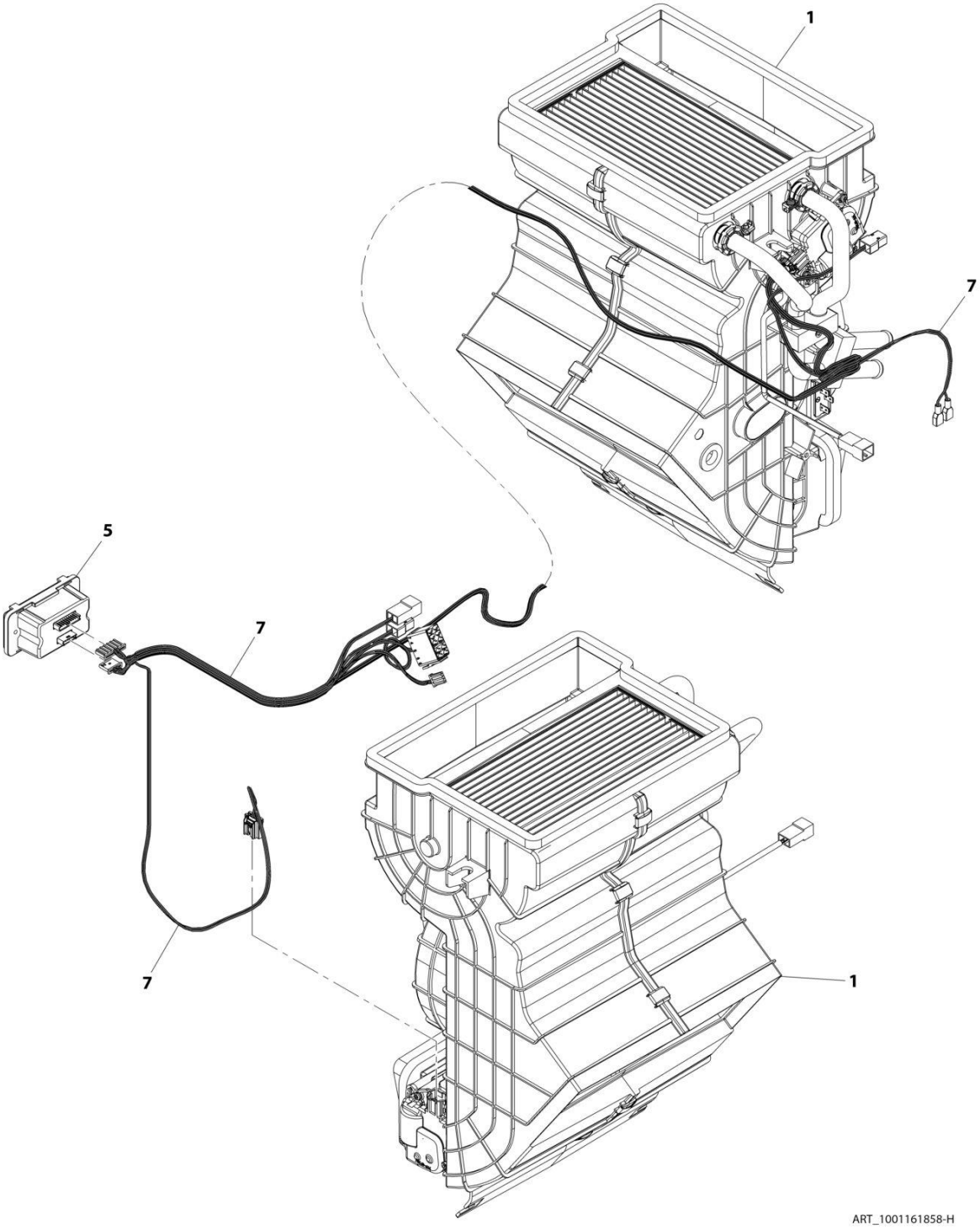


FIGURE 6-41. HEATER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161858	Ref	Heater Assembly	H
1	1001152908	NLA	Heater, Cab (no longer available, use 1001221052), (For Service, See Separate Breakdown in this Section)	
5	1001221052	1	Heater, Cab (See Separate Breakdown in this Section)	
5	1001172551	1	Actuator, HVAC Cab (See Separate Breakdown in this Section)	
7	1001173571	1	Harness, HVAC Actuator	
7	1001221056	1	Harness, HVAC Actuator	

FIGURE 6-42. HEATER (Prior to SN 0160080898)

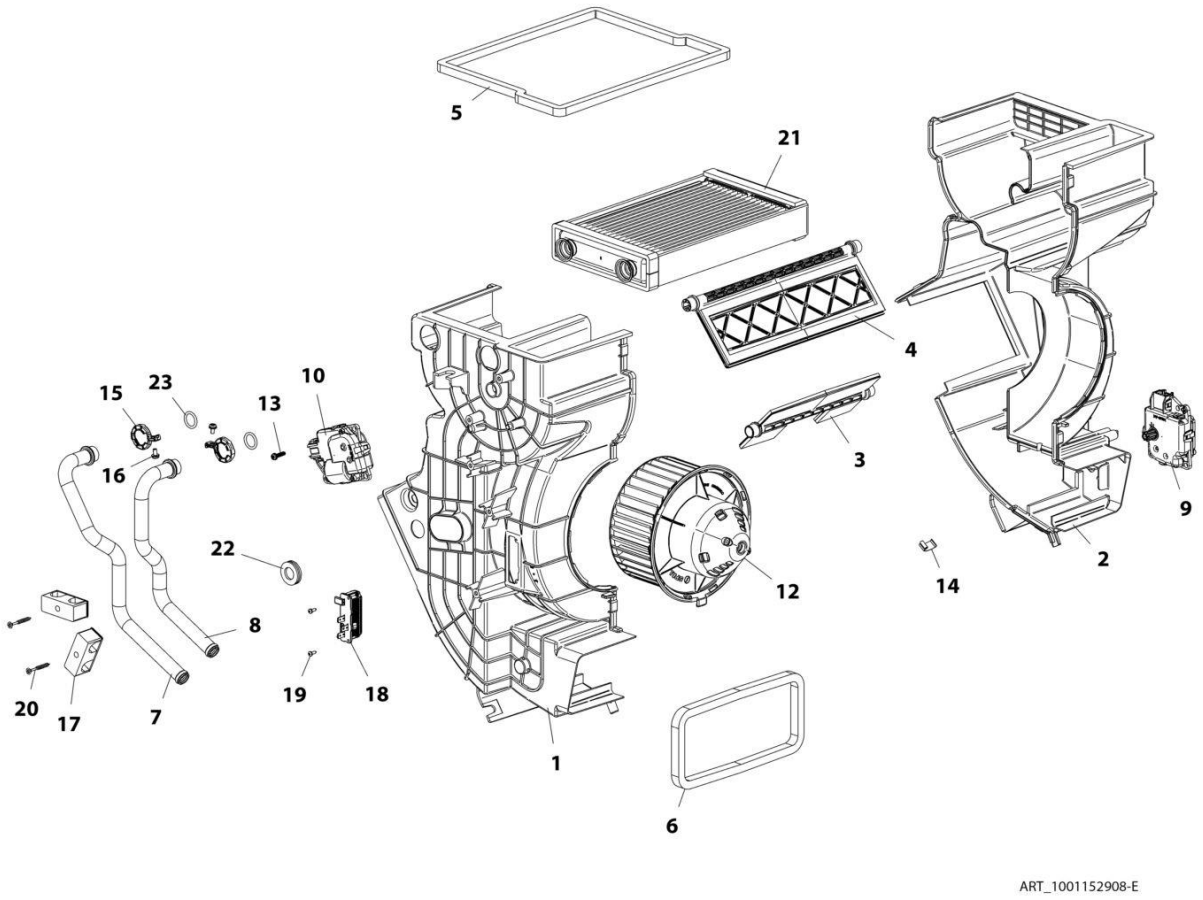


FIGURE 6-42. HEATER (Prior to SN 0160080898)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152908	NLA	Heater (no longer available, see items 1 through 23 for service or use 1001221052 for replacement)	E
1	1001166091	1	Housing, RH	
2	1001166092	1	Housing, LH	
3	1001184275	1	Flap, Recirculation with Foam	
4	1001184278	1	Flap, Mixing with Foam	
5	1001184294	1	Foam, Air Outlet	
6	1001184295	1	Foam, Air Inlet	
7	1001184296	1	Pipe, Water	
8	1001184297	1	Pipe, Water	
9	1001188577	1	Actuator, Fresh/Recirculation Air	
10	1001188578	1	Actuator, Hot/Cold	
12	1001188594	1	Fan, 12V	
13	1001188602	4	Screw	
14	1001188603	9	Clamp	
15	1001188604	2	Clamp	
16	1001188610	2	Screw	
17	1001188612	2	Clamp	
18	1001188614	1	Resistor	
19	1001188720	2	Screw	
20	1001188725	2	Screw	
21	1001188729	1	Radiator, Heater Core	
22	1001188733	1	Grommet	
23	1001189025	2	O-Ring	

FIGURE 6-43. HEATER (SN 0160080898 to Present)

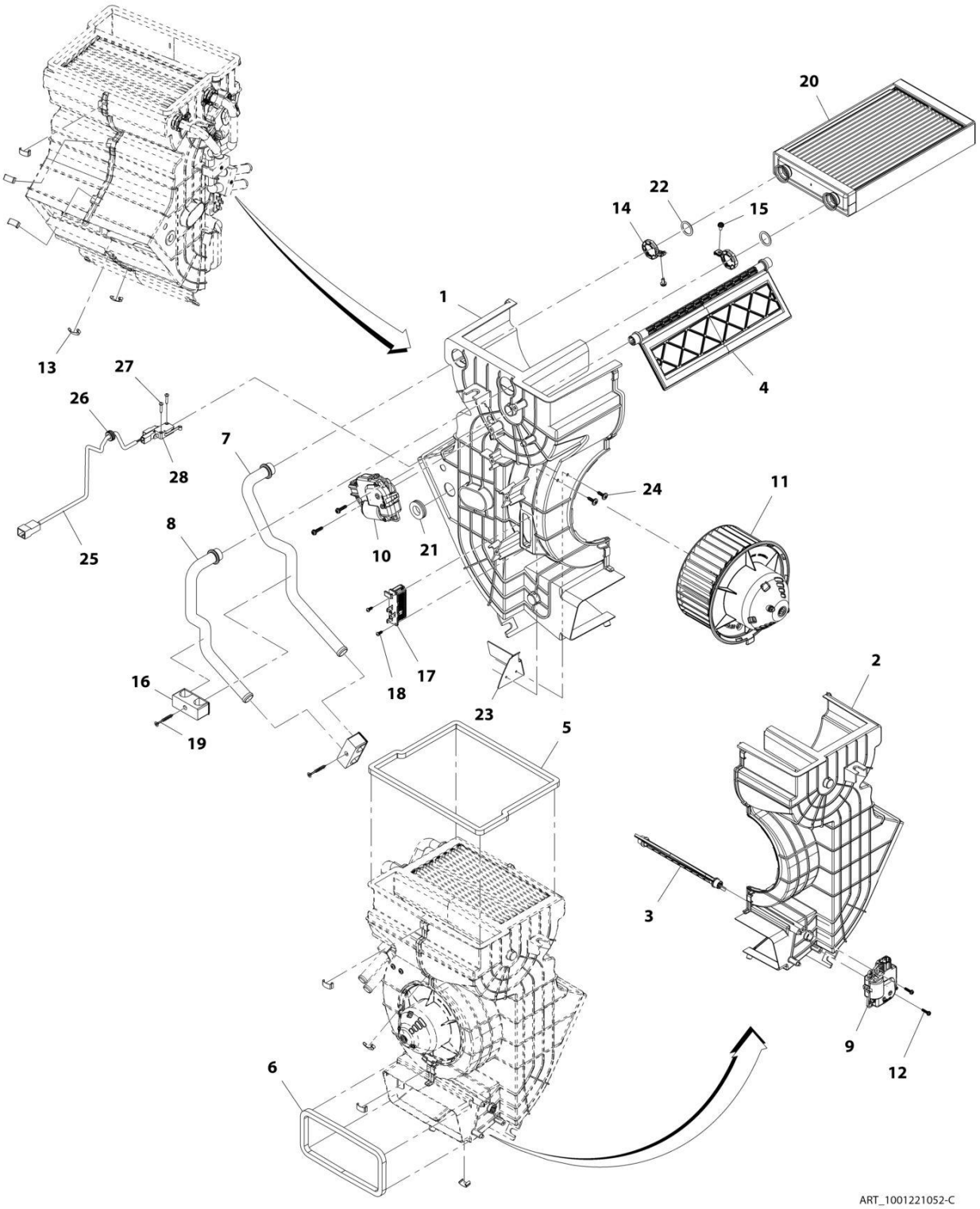


FIGURE 6-43. HEATER (SN 0160080898 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221052	Ref	Heater	D
1	1001166091	1	Housing, RH	
2	1001166092	1	Housing, LH	
3	1001184275	1	Flap, Recirculation with Foam	
4	1001184278	1	Flap, Mixing with Foam	
5	1001184294	1	Foam, Air Outlet	
6	1001184295	1	Foam, Air Inlet	
7	1001184296	1	Pipe, Water	
8	1001184297	1	Pipe, Water	
9	1001188577	1	Actuator, Fresh/Recirculation Air	
10	1001188578	1	Actuator, Hot/Cold	
11	1001188594	1	Fan, 12V	
12	1001188602	4	Screw	
13	1001188603	9	Clamp	
14	1001188604	2	Clamp	
15	1001188610	2	Screw	
16	1001188612	2	Clamp	
17	1001188614	1	Resistor	
18	1001188720	2	Screw	
19	1001188725	2	Screw	
20	1001188729	1	Radiator, Heater Core	
21	1001188733	1	Grommet	
22	1001189025	2	O-Ring	
23	1001221057	1	Plate	
24	1001221058	2	Screw	
25	1001228132	1	Harness, HVAC Sensor	
26	1001228140	1	Grommet	
27	1001228141	2	Screw	
28	1001228147	1	Valve, Water	

FIGURE 6-44. HVAC CAB ACTUATOR

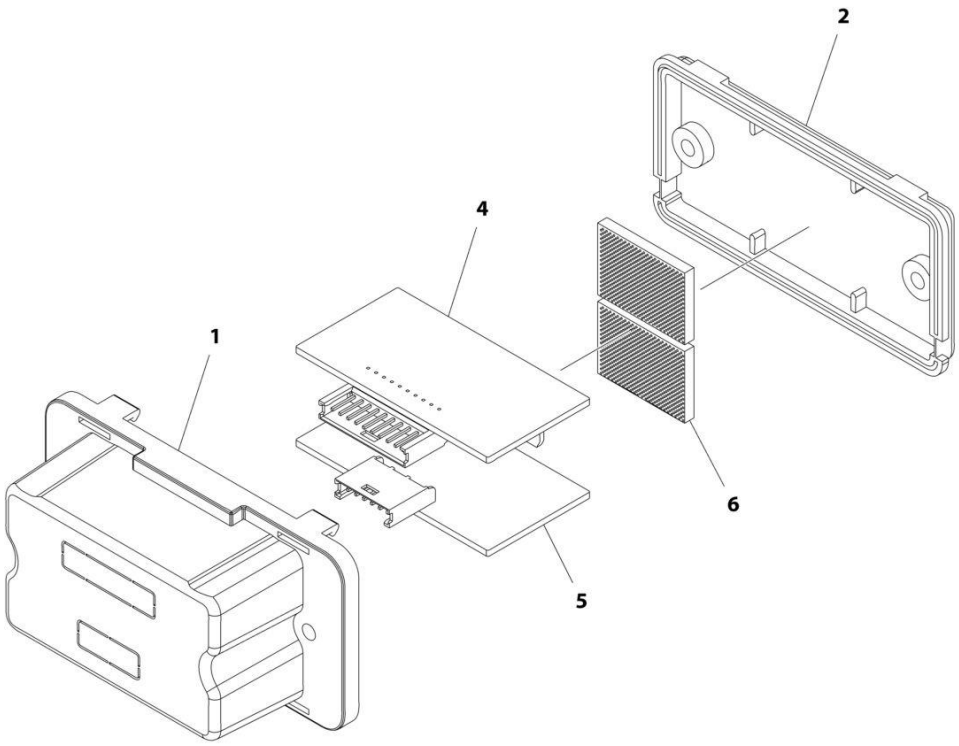


FIGURE 6-44. HVAC CAB ACTUATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172551	Ref	HVAC CAB ACTUATOR	E
1	1001184306	1	Box, Heater Controller	
2	1001184307	1	Base, Heater Controller Box	
4	1001184309	1	Board, Heater Control	
5	1001184310	1	Board, Heater Control	
6	1001189980	2	Insulator, Heater Controller Box	

FIGURE 6-45. HEADLINER INSTALLATION

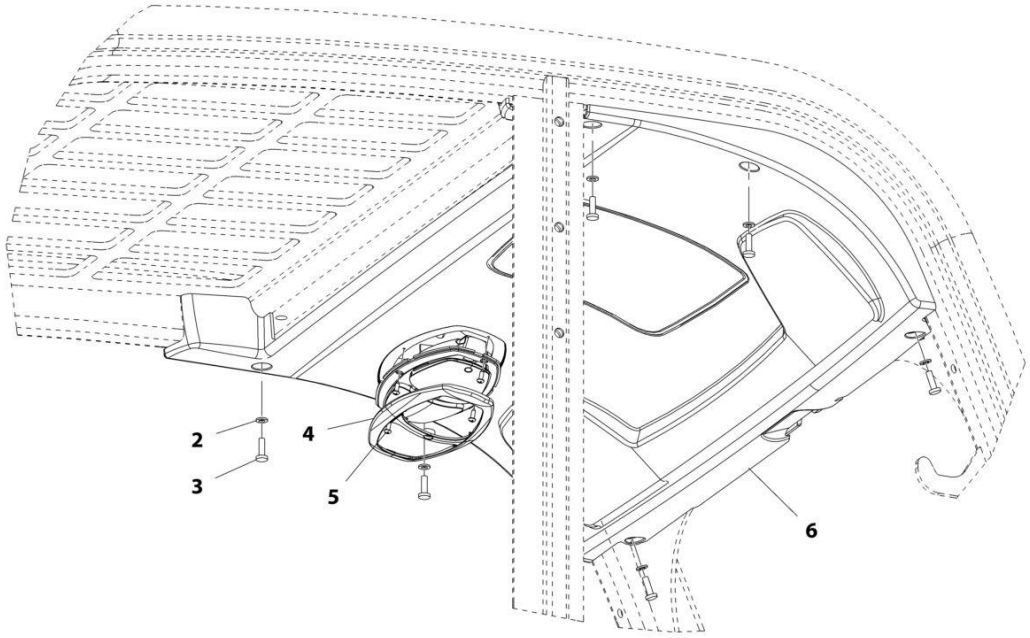


FIGURE 6-45. HEADLINER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170717	Ref	Headliner Installation	E
2	4811700	6	Washer, M6	
3	4031708001	6	Screw, M6X20	
4	1001167015	1	Lamp	
5	7029486	4	Screw	
6	1001161069	1	Panel, Headliner	

FIGURE 6-46. LEVEL INDICATOR INSTALLATION

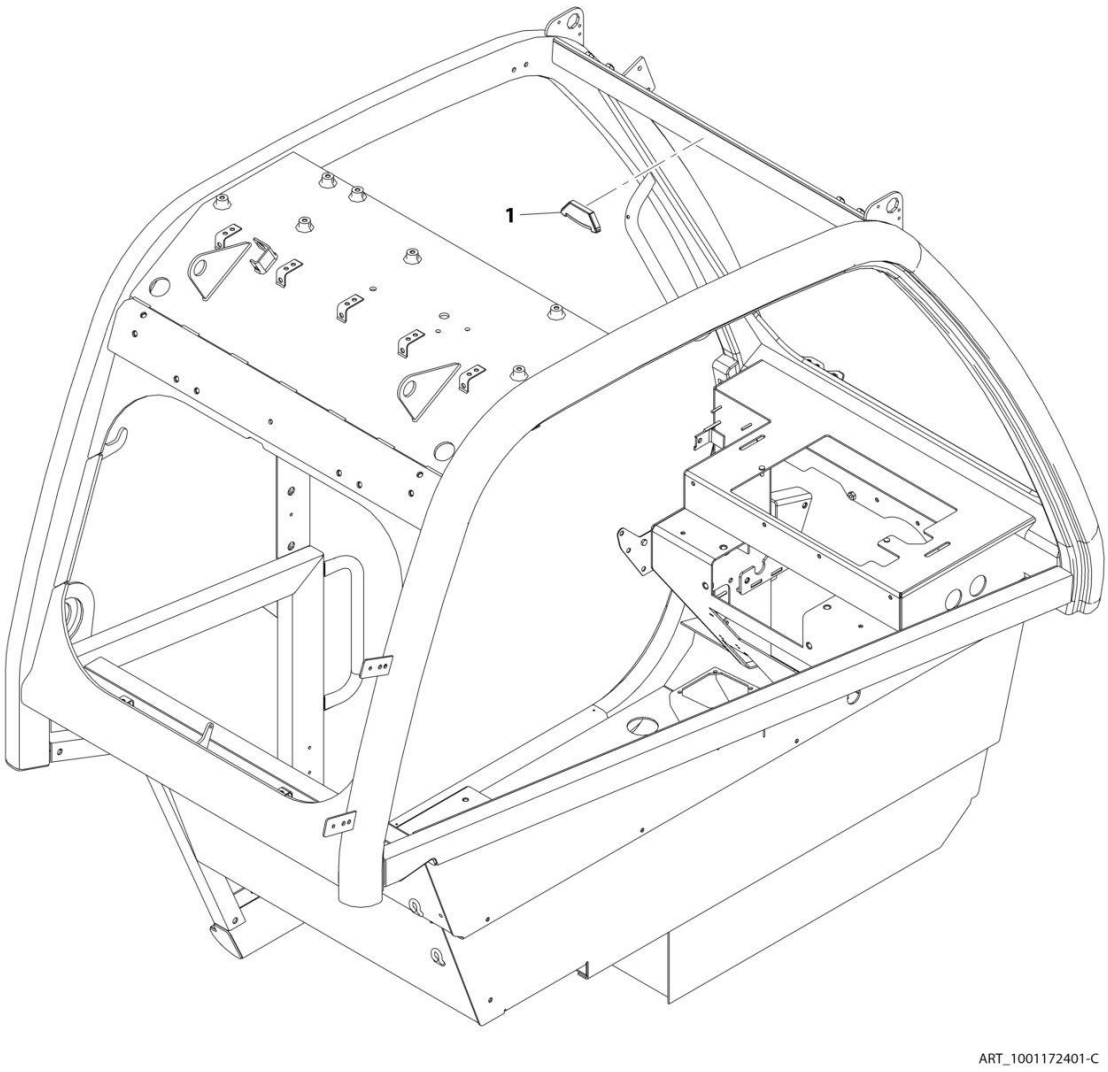
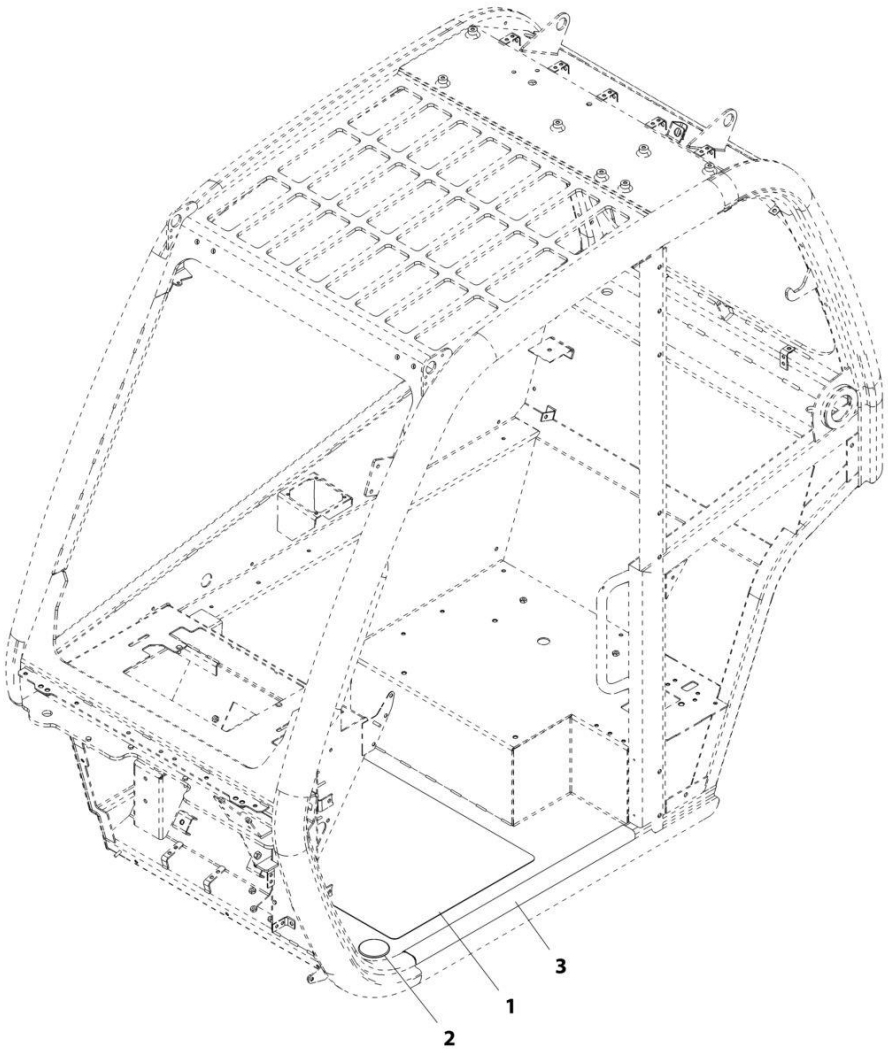


FIGURE 6-46. LEVEL INDICATOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172401	Ref	Level Indicator Installation	C
1	8466306	1	Gauge, Tilt Angle	

FIGURE 6-47. NON SKID TAPE INSTALLATION

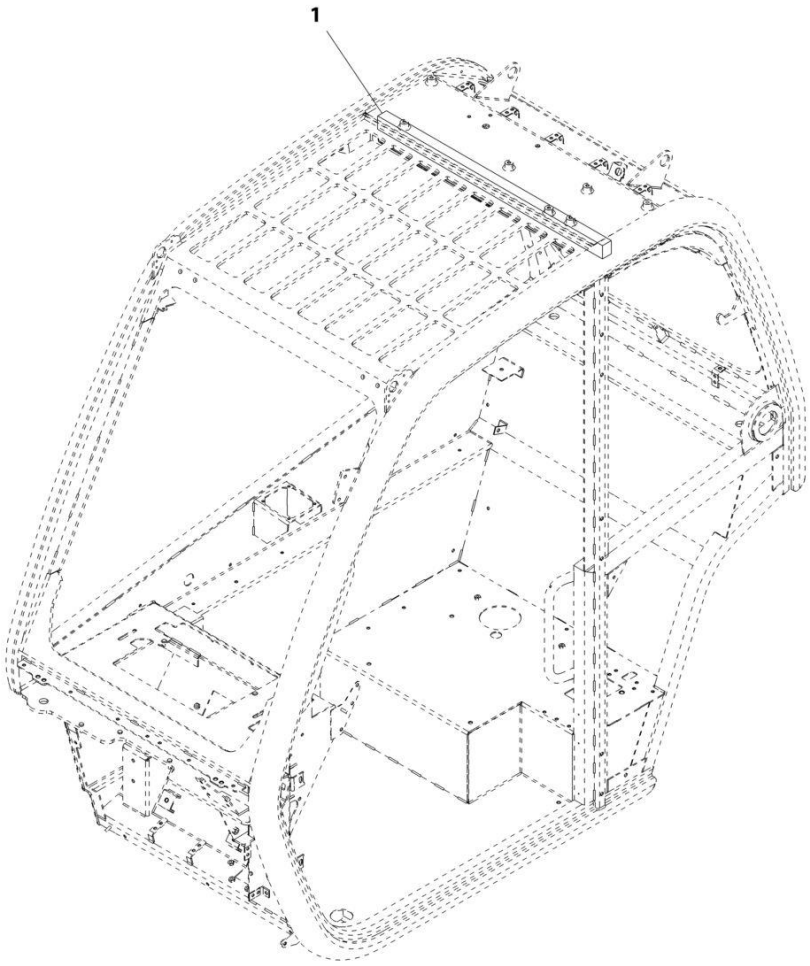


ART_1001197219-B

FIGURE 6-47. NON SKID TAPE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197219	Ref	Non Skid Tape Installation	B
1	1001197217	1	Tape, Non Skid Floor	
2	1001197218	1	Grommet	
3	1001197259	1	Tape, Non Skid Frame	

FIGURE 6-48. NO SUNSCREEN INSTALLATION



ART_1001211041-A

FIGURE 6-48. NO SUNSCREEN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001211041	Ref	No Sunscreen Installation	A
1	1001208192	1	Seal, Foam	

FIGURE 6-49. OROPS CAB INSTALLATION

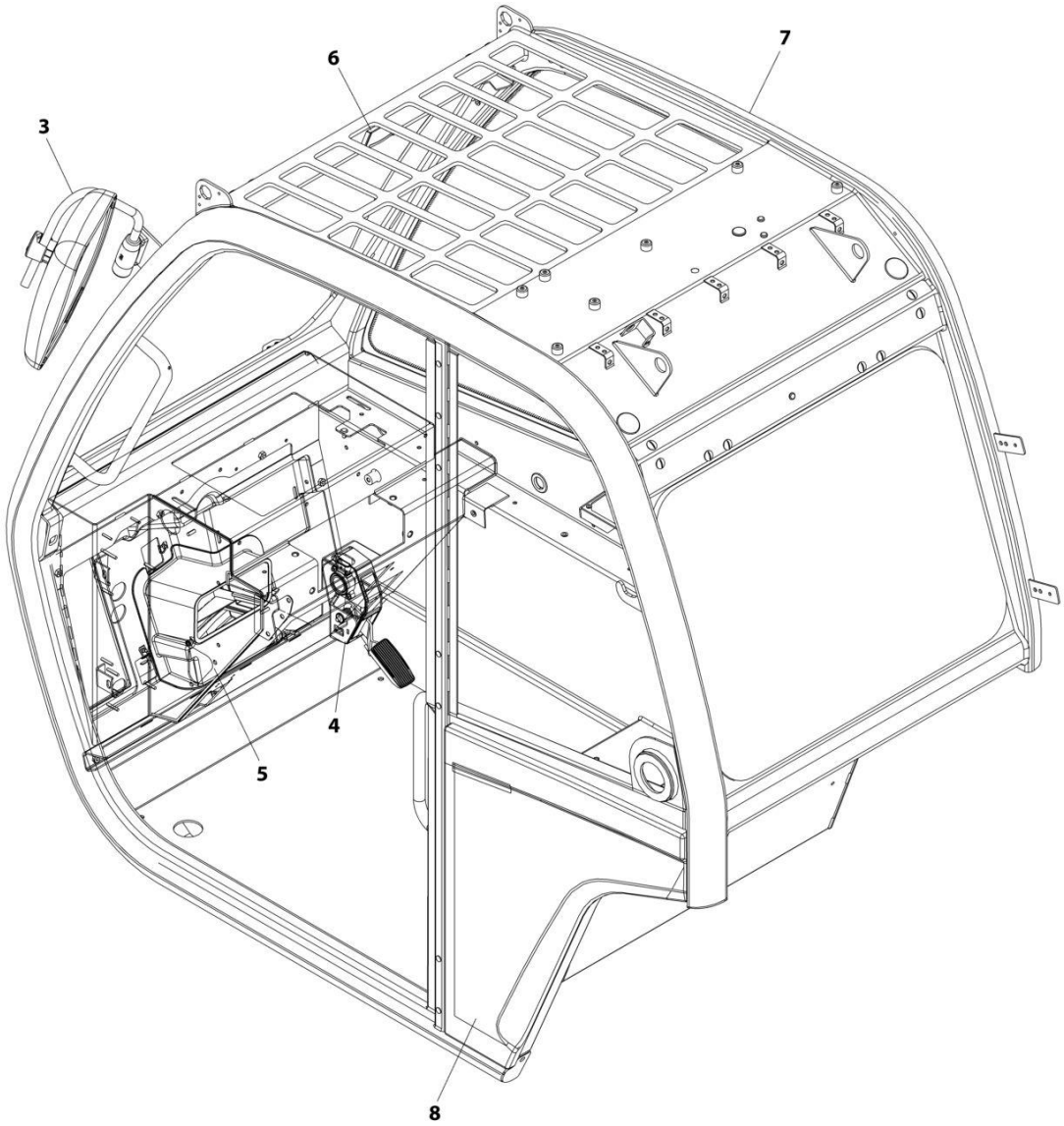


FIGURE 6-49. OROPS CAB INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001154984	Ref	OROPS Cab Installation	J
3	1001160508	Ref	Installation, Mirror (See Separate Breakdown in this Section)	
4	1001161499	Ref	Installation, Accelerator Pedal (See Separate Breakdown in Controls Section)	
5	1001293104	Ref	Installation, Front Cover (See Separate Breakdown in this Section)	
6	1001172401	Ref	Installation, Level Indicator (See Separate Breakdown in this Section)	
7	1001214326	Ref	Cab (See Separate Breakdown in this Section)	
8	1001214331	Ref	Installation, Open Cab (See Separate Breakdown in this Section)	

FIGURE 6-50. OPEN CAB INSTALLATION

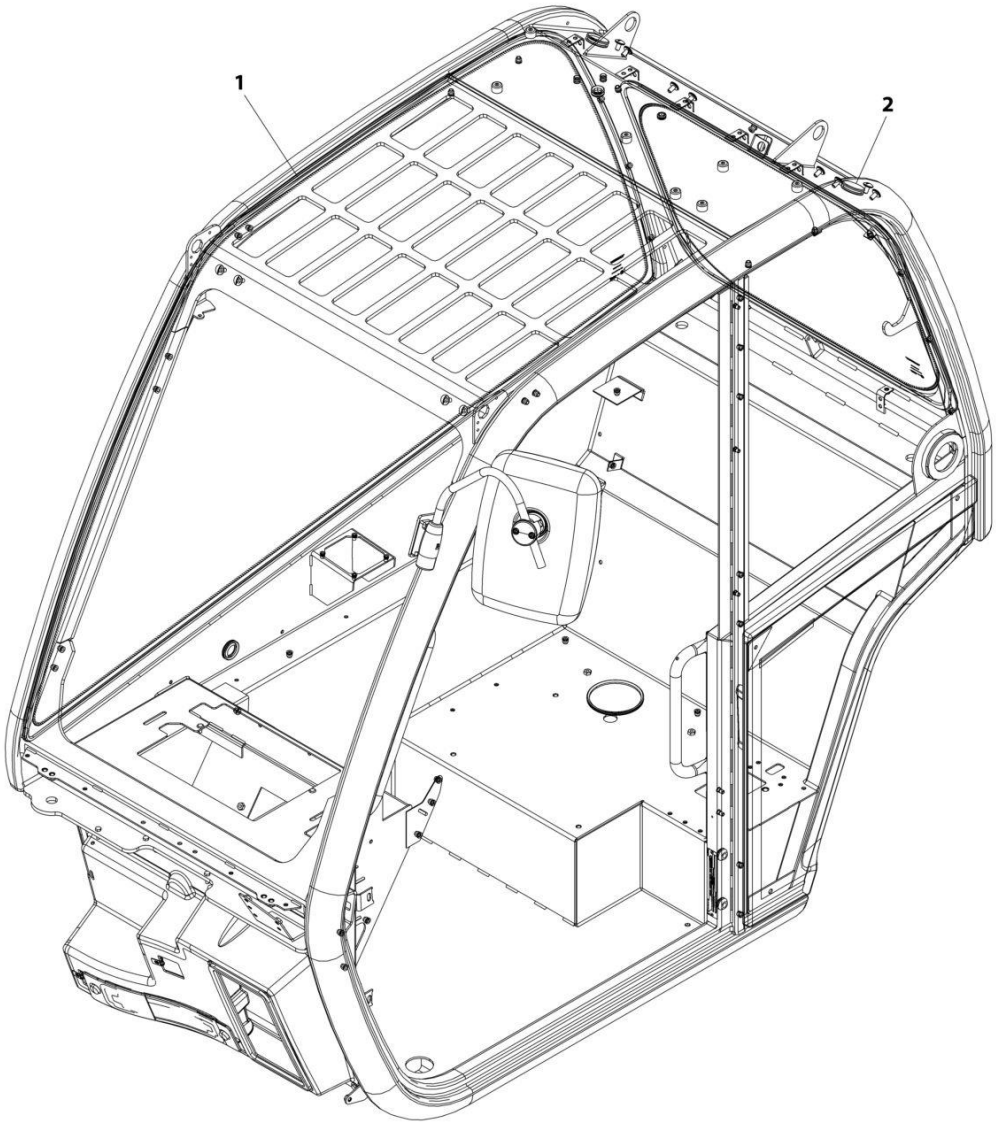


FIGURE 6-50. OPEN CAB INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001214331	Ref	Open Cab Installation	E
1	1001154721	1	Assembly, Open Cab (See Separate Breakdown in this Section)	
2	1001170495	1	Group, Open Cab Plug (See Separate Breakdown in this Section)	

FIGURE 6-51. OPEN CAB ASSEMBLY

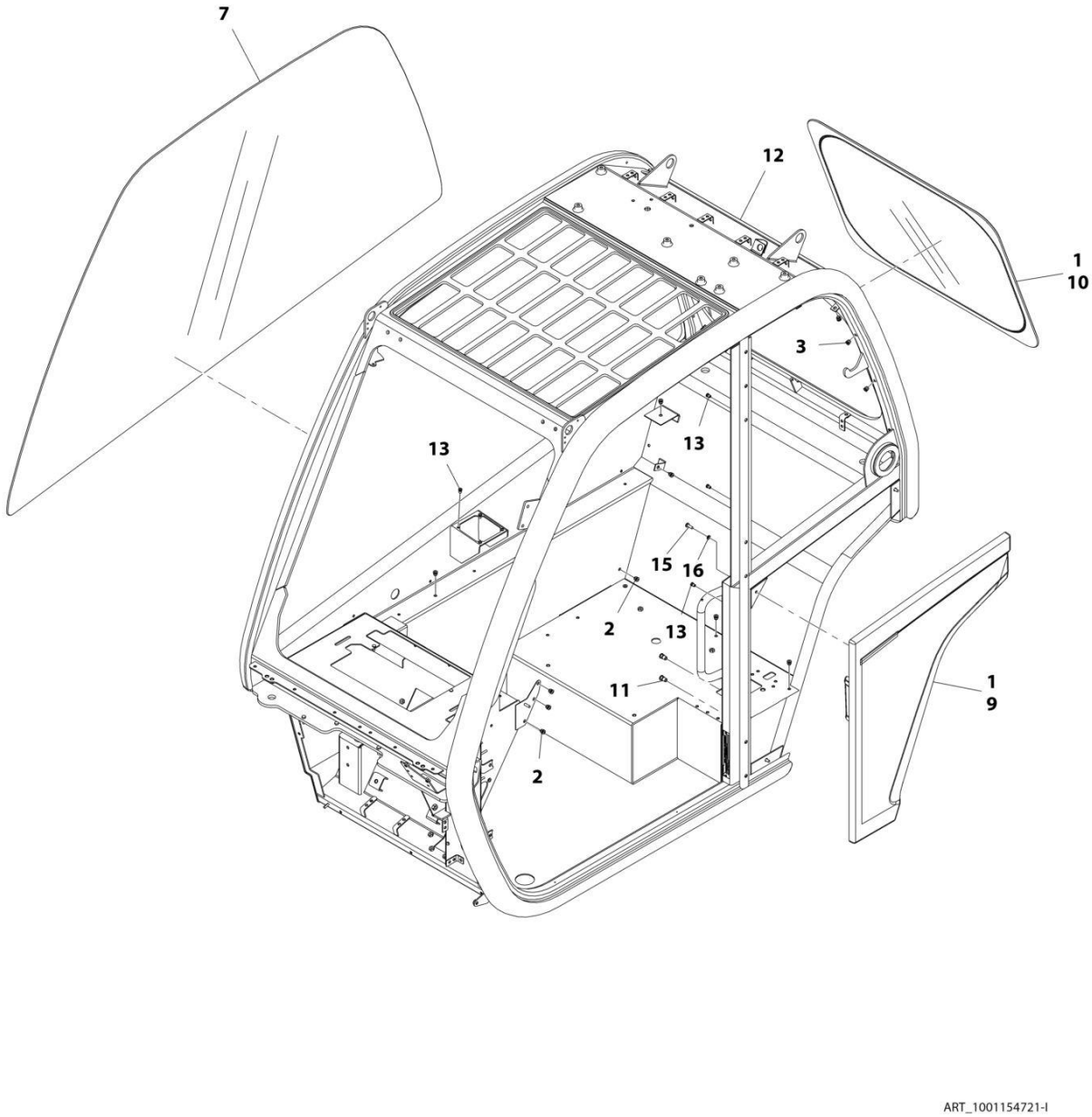


FIGURE 6-51. OPEN CAB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001154721	Ref	Open Cab Assembly	I
1	1001111317	AR	Compound, Locking	
2	2080086	17	Rivnut, M6X1	
3	2080087	16	Rivnut, M8X1.25	
7	1001152947	1	Glass, RH Screen	
9	1001229319	1	Panel, Cab Quarter	
10	1001161538	1	Glass, Rear Window	
11	1001172193	2	Rivnut, M5X0.8	
12	See Note	NSS	Weldment, Cab (Note: Not available for purchase)	
13	1001195878	7	Rivnut, M5X0.8	
15	N.S.S.	3	Screw	
16	4811700	3	Washer, M6	

FIGURE 6-52. OPEN CAB TRIM INSTALLATION

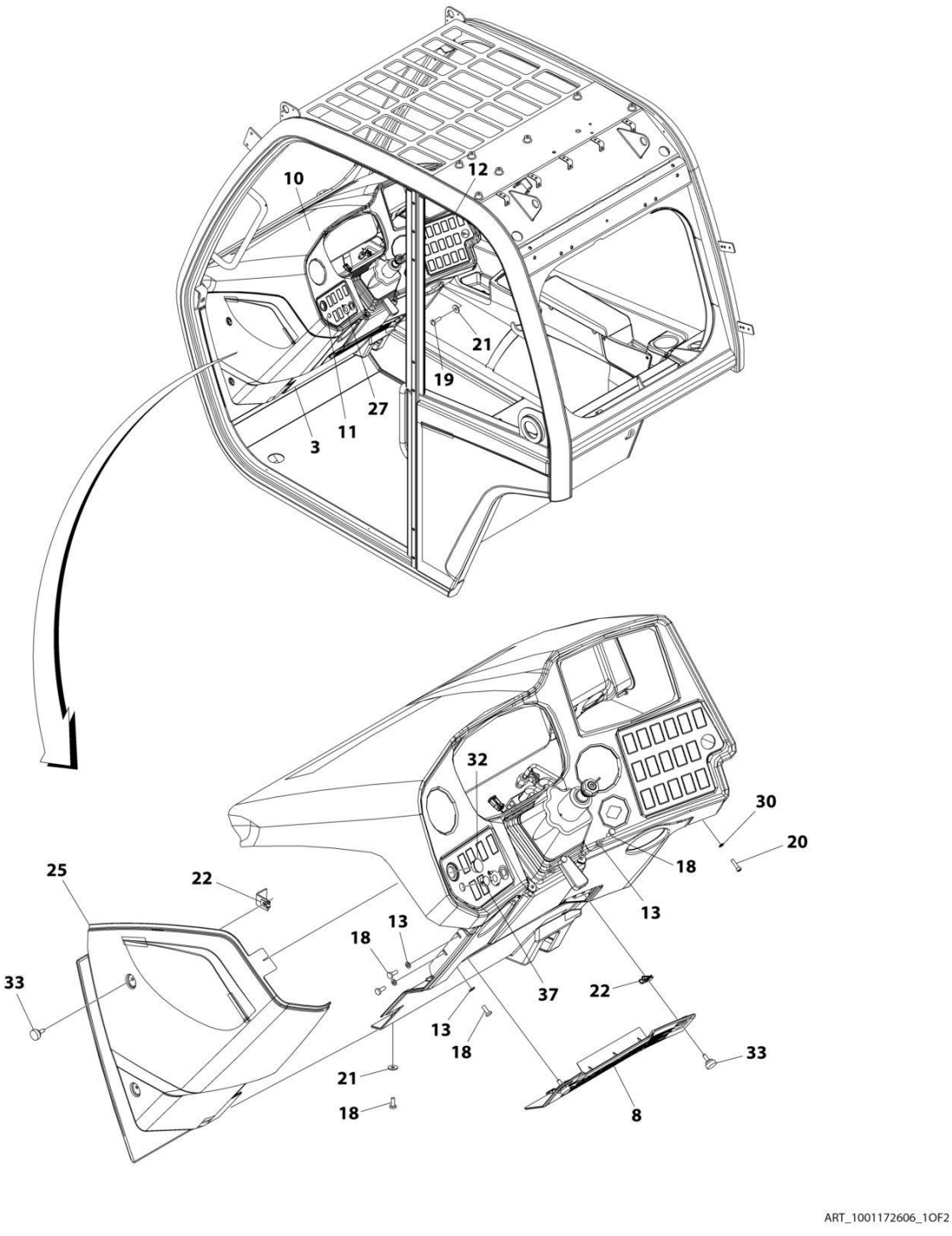


FIGURE 6-53. OPEN CAB TRIM INSTALLATION

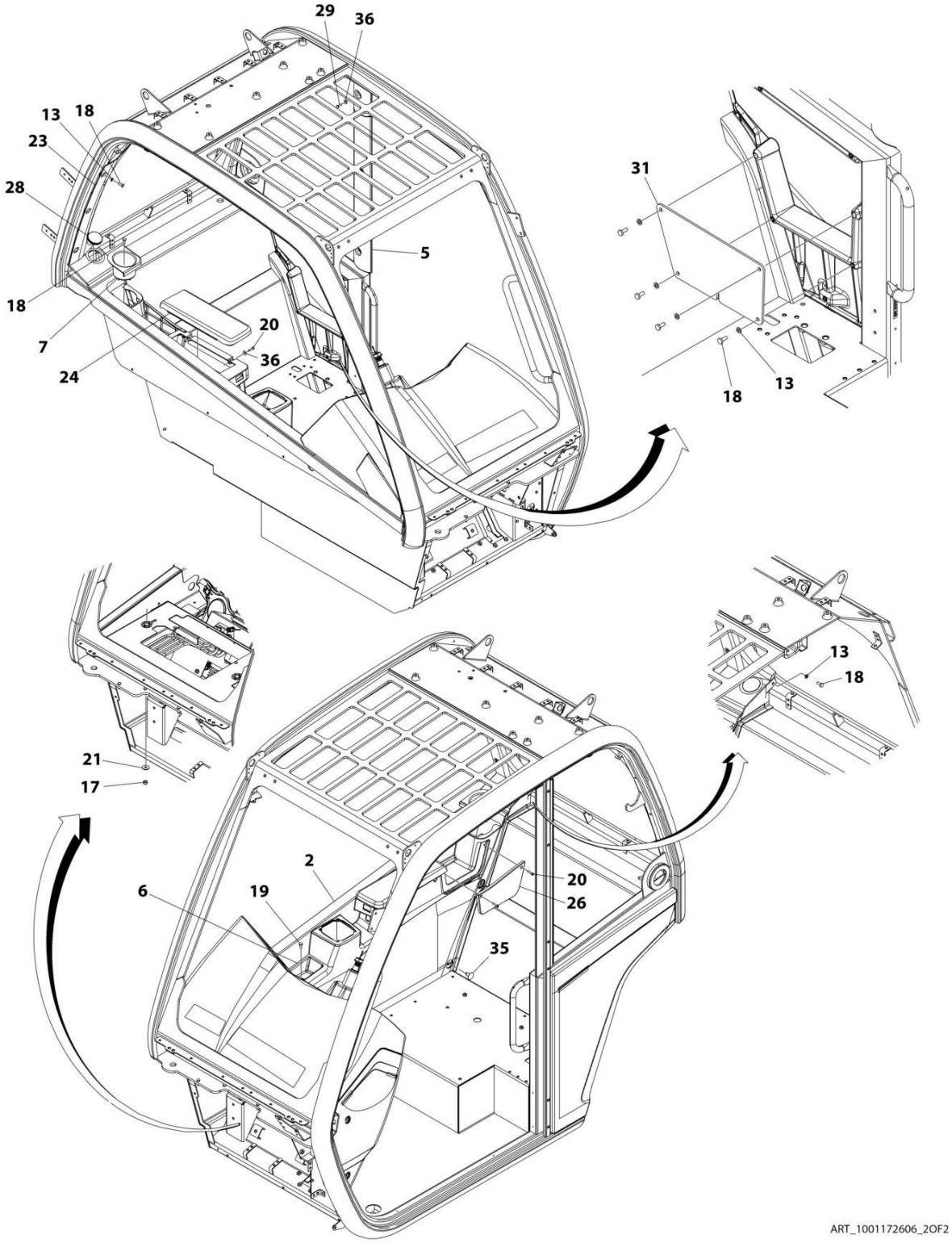


FIGURE 6-53. OPEN CAB TRIM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172606	Ref	Open Cab Trim Installation	K
2	1001169605	1	Cover, Side	
3	1001175904	1	Panel, Lower Dash	
5	1001219076	1	Panel, Cover	
6	1001169603	1	Panel, Trinket Tray	
7	1001170518	1	Holder, Cup	
8	1001170504	1	Panel, Recirculation Grille Cover	
10	1001172608	1	Panel, Dash	
11	1001268846	1	Plate, LH Switch	
12	1001219865	1	Plate, RH Switch	
13	4811700001	14	Washer, M6	
17	3290605	2	Nut, Lock M6X1 Grade 8	
18	4010608002	18	Screw, Posi-Drive M6X16 GR4.8	
19	4010610002	2	Screw, Posi-Drive M6X20 GR4.8	
20	4031608001	5	Screw, M5X20	
21	4811702001	6	Washer, M6	
22	8305919	4	Nut, M6	
23	1001191617	1	Panel, Cover	
24	1001161854	1	Armrest (See Separate Breakdown in this Section)	
25	1001161855	1	Panel, LH Dash	
26	1001173965	1	Bezel, RH	
27	1001190347	1	Decal, No HVAC	
28	1001223265	1	Plug	
29	4010508002	3	Screw, Posi-Drive M5X16	
30	4811600	1	Washer, M5	
31	1001185179	1	Cover, LH Rear Panel	
32	1001190589	1	Blanking Plug	
33	1001208308	4	Screw, M6X15	
35	1001211907	1	Screw	
36	4811602001	5	Washer, M5	
37	1001207963	1	PLUG,5/8 PUSH IN	

FIGURE 6-54. OPEN CAB FRONT COVER INSTALLATION

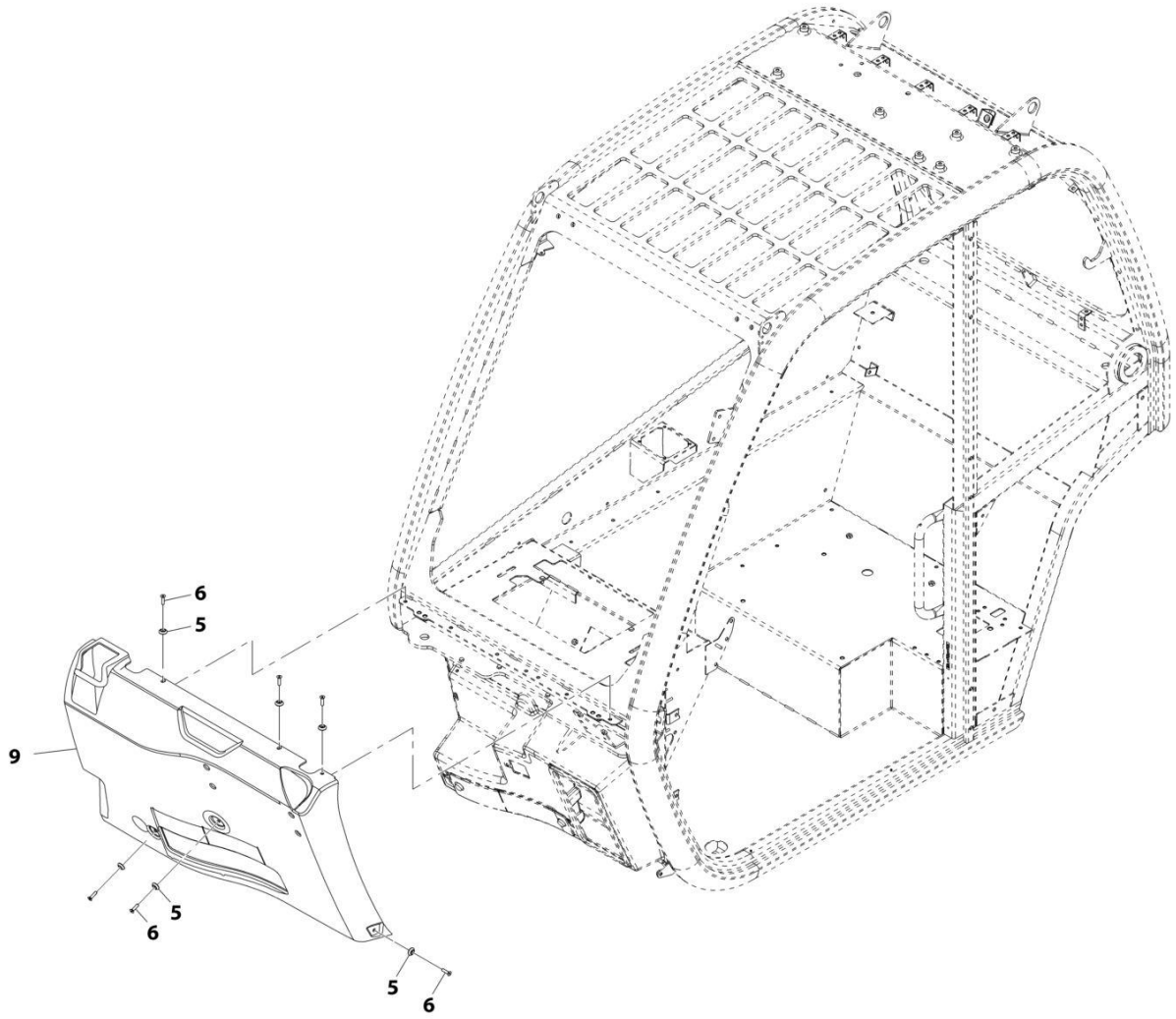


FIGURE 6-54. OPEN CAB FRONT COVER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179853	Ref	Open Cab Front Cover with Cab Fender Installation, (no longer available, use 1001229550 for replacement)	G
	1001229550	Ref	Open Cab Front Cover with Cab Fender Installation	A
1	3900379	6	Screw, M6X25	
2	1001097540	6	Washer, M6	
3	1001189658	Ref	Cover, (no longer available, use 1001229540 for replacement)	
3	1001229540	1	Cover	

FIGURE 6-55. OPEN CAB PLUG GROUP

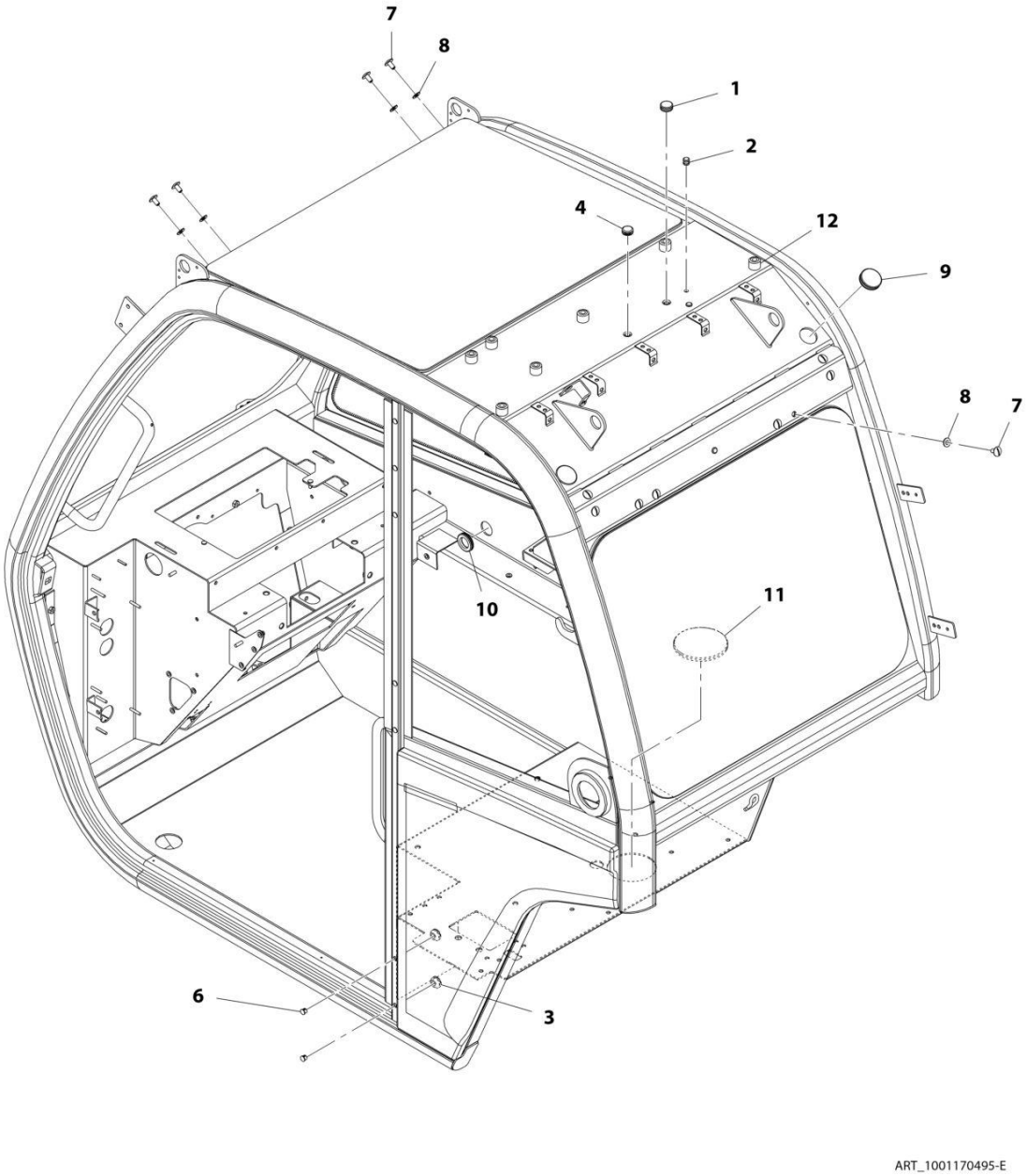
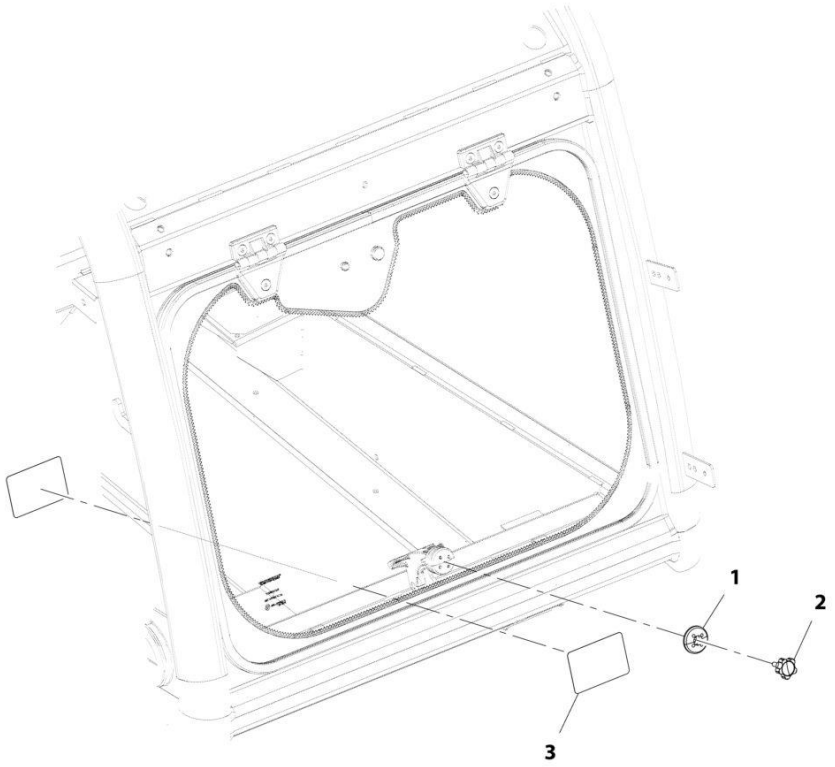


FIGURE 6-55. OPEN CAB PLUG GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170495	Ref	Open Cab Plug Group	E
1	1001176273	1	Plug	
2	1001176272	3	Plug	
3	1001143200	2	Plug	
4	1001176626	1	Plug	
6	1001170374	7	Plug	
7	1001181920	12	Screw, M8X16	
8	1001181921	12	Washer, M8 Rubber	
9	1001182123	2	Plug	
10	1001182139	1	Plug	
11	1001209899	1	Plug	
12	1001219220	1	Cap, Vinyl Round	

FIGURE 6-56. REAR WINDOW INSTALLATION (WITHOUT WIPER) (ANSI)

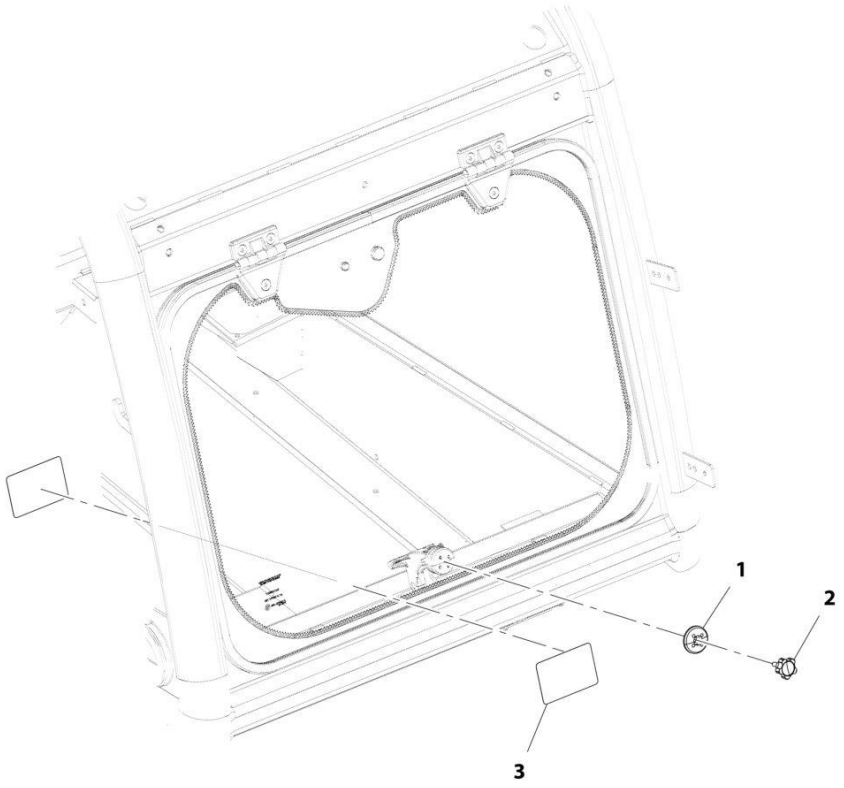


ART_1001212047-A

FIGURE 6-56. REAR WINDOW INSTALLATION (WITHOUT WIPER) (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212047	Ref	External Window Release Installation (ANSI)	A
1	1001179008	1	Cap, Latch Window	
2	1001179009	1	Cap, Knob M6	
3	1001212049	2	Decal, Emergency Exit	

FIGURE 6-57. REAR WINDOW INSTALLATION (WITHOUT WIPER) (ISO)



ART_1001212048-A

FIGURE 6-57. REAR WINDOW INSTALLATION (WITHOUT WIPER) (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212048	Ref	Rear Window Installation (WO/Wiper) (ISO)	A
1	1001179008	1	Cap, Latch Window	
2	1001179009	1	Cap, Knob M6	
3	1001212050	2	Decal, Emergency Exit	

FIGURE 6-58. REAR WINDOW INSTALLATION (EROPS CAB)

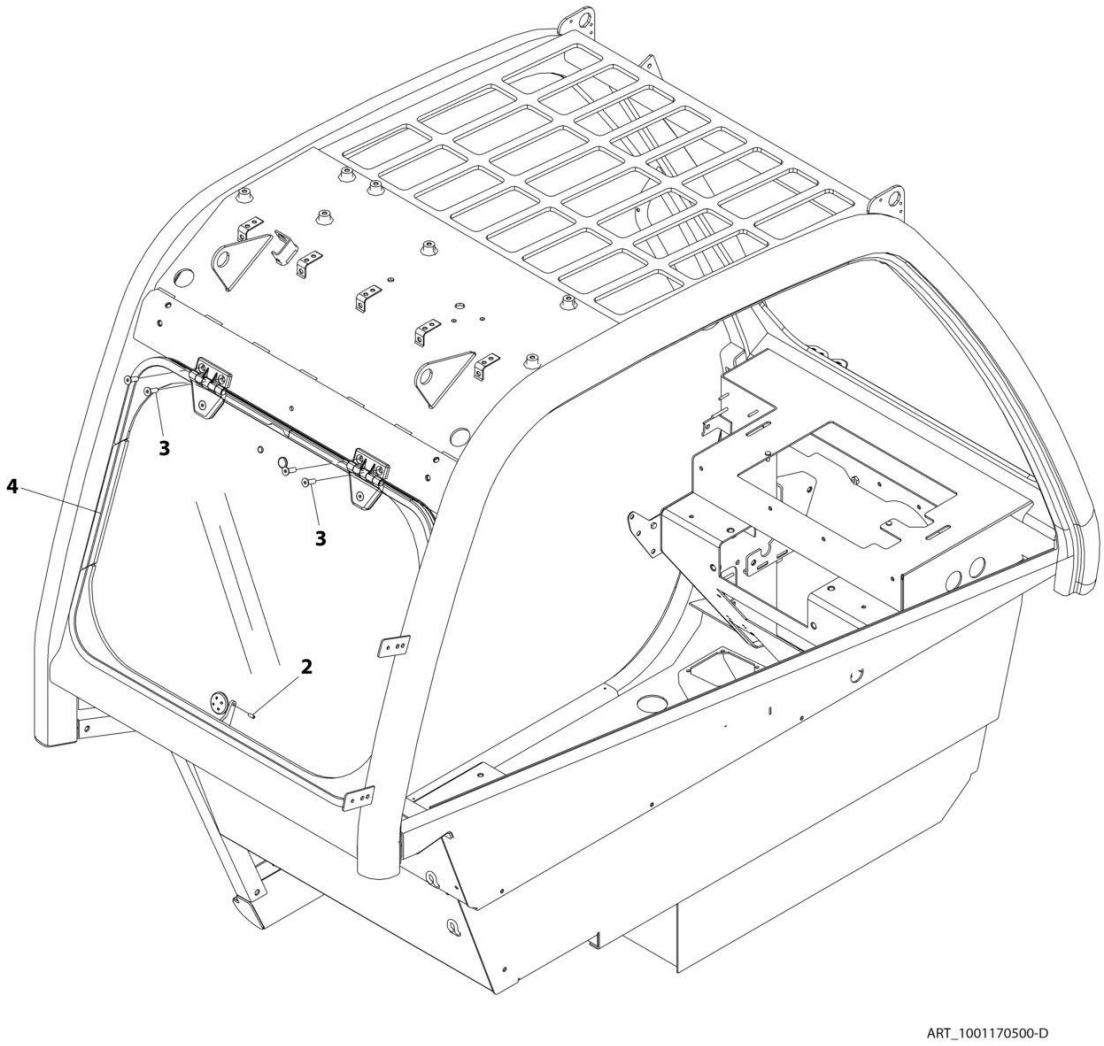


FIGURE 6-58. REAR WINDOW INSTALLATION (EROPS CAB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170500	Ref	Rear Window Installation	D
2	1001003043	1	Pin, Spring	
3	1001097586	4	Bolt, M8-1.25X25	
4	1001170502	1	Window, Rear (See Separate Breakdown in this Section)	

FIGURE 6-59. REAR WINDOW ASSEMBLY

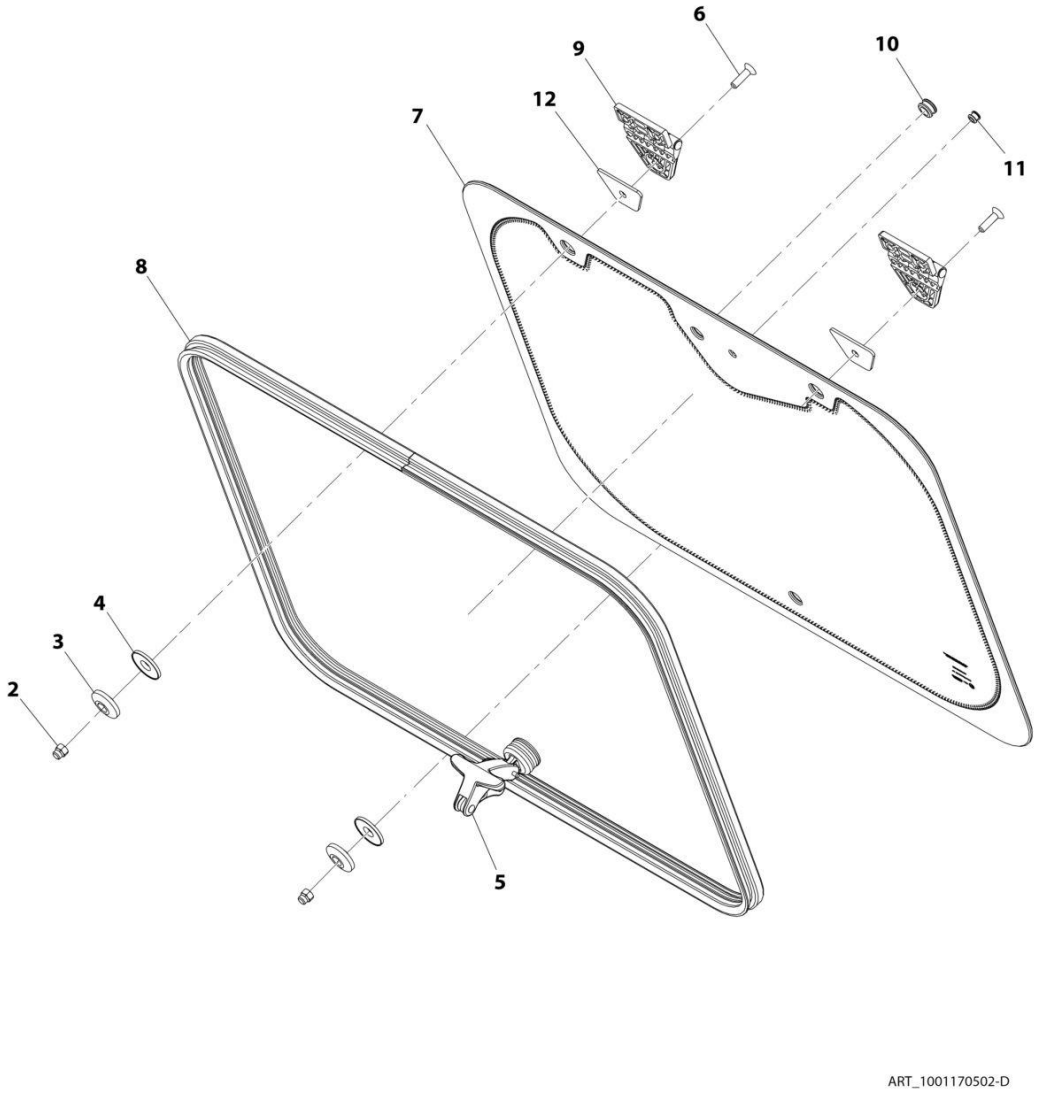


FIGURE 6-59. REAR WINDOW ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170502	Ref	Rear Window Assembly	D
2	3290806	2	Nut, M8X1.25 Grade 8	
3	8000759	2	Spacer	
4	8004398	2	Washer	
5	1001005368	1	Latch, Window	
6	2080078	2	Fastener, M8X30	
7	1001157481	1	Glass, Rear Window	
8	1001157487	1	Seal	
9	1001139568	2	Hinge	
10	1001171182	1	Grommet	
11	1001171183	1	Grommet	
12	1001181411	2	Gasket, Rear Window Hinge	

FIGURE 6-60. REAR WIPER INSTALLATION

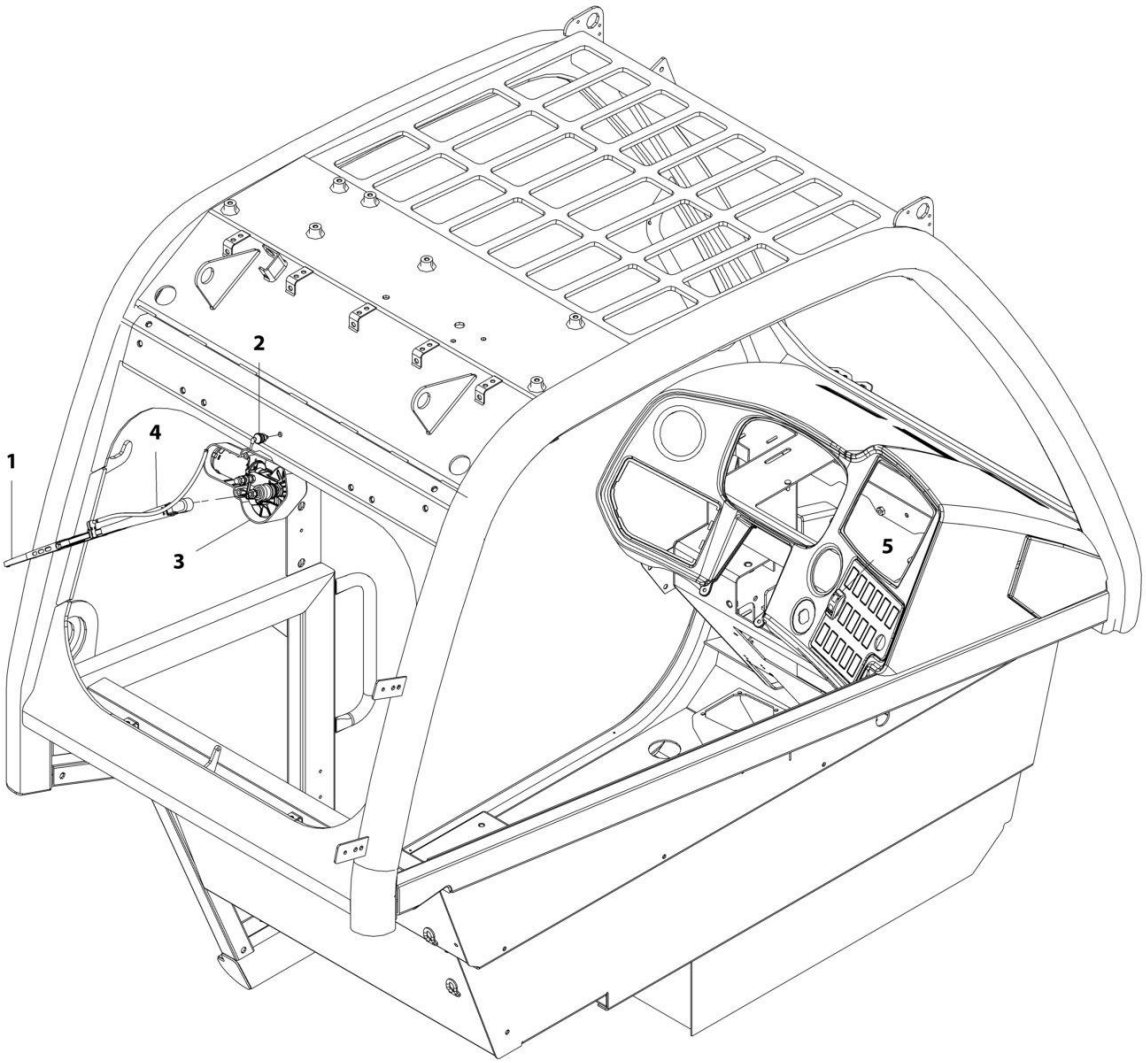


FIGURE 6-60. REAR WIPER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176164	Ref	Rear Wiper Installation	C
1	4807718	1	Blade, Wiper	
3	1001139552	1	Motor, Rear Wiper Window	
4	1001141312	1	Arm, Rear Window Wiper Blade	
5	1001159735	1	Switch, Rear Wiper	

FIGURE 6-61. ROOF WIPER INSTALLATION

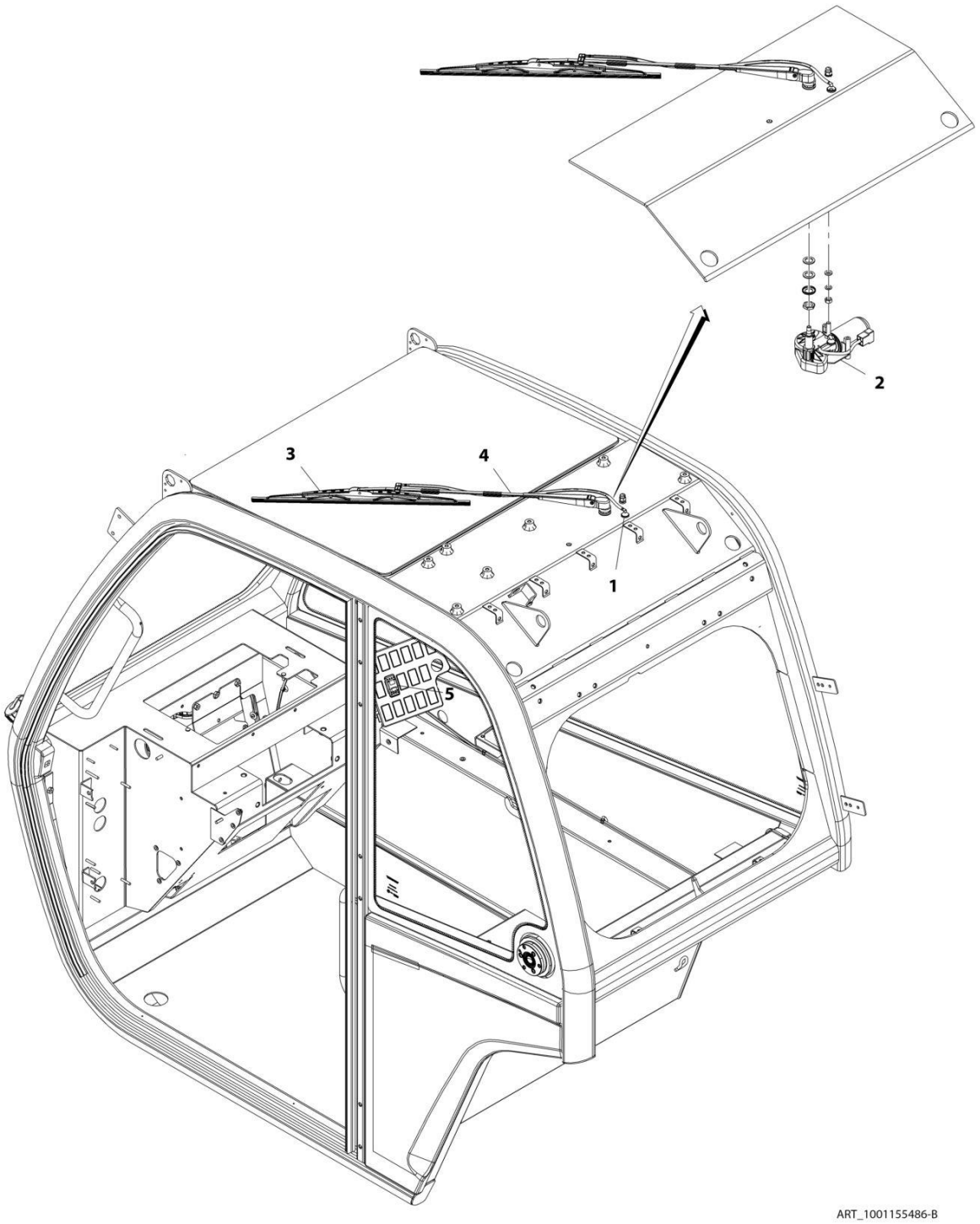


FIGURE 6-61. ROOF WIPER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155486	Ref	Roof Wiper Installation	B
1	1001090343	1	Connector	
2	1001139551	1	Motor, Roof Wiper	
3	1001141313	1	Blade, Roof Wiper	
4	1001141311	1	Arm, Roof Wiper Blade	
5	1001159736	1	Switch, Roof Wiper	

FIGURE 6-62. ROOF CAP INSTALLATION (WITH A/C)

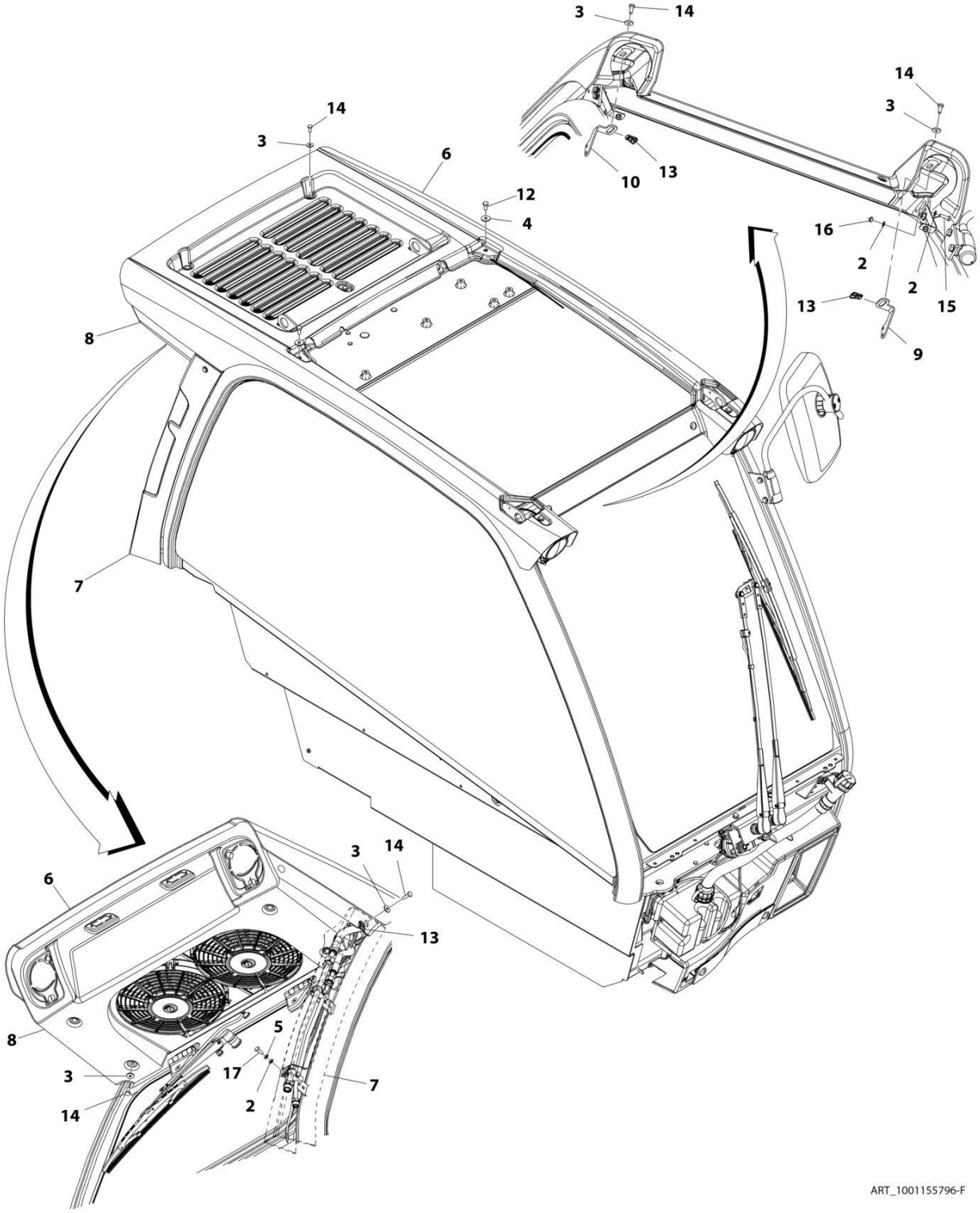


FIGURE 6-62. ROOF CAP INSTALLATION (WITH A/C)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155796	Ref	Roof Cap Installation (A/C) (Construction)	F
2	4811700	9	Washer, M6	
3	4811702	10	Washer, M6	
4	4811902	2	Washer, M8	
5	4831700	1	Washer, Lock M6	
6	1001155800	1	Cover, Upper Roof Cap	
7	1001174741	1	Cover	
8	1001214156	1	Cover, Lower Roof Cap	
9	1001174800	1	Bracket, Roof Cap	
10	1001174801	1	Bracket, Roof Cap	
12	0760808	2	Bolt, M8X16	
13	8305919	3	Nut, M6	
14	4010610002	10	Screw, Posi-Drive M6X20	
15	0700610	4	Bolt, M6X20	
16	3290601	4	Nut, M6X1	
17	4010608002	1	Screw, Posi-Drive, M6X16	

FIGURE 6-63. ROOF CAP INSTALLATION (WITHOUT A/C)

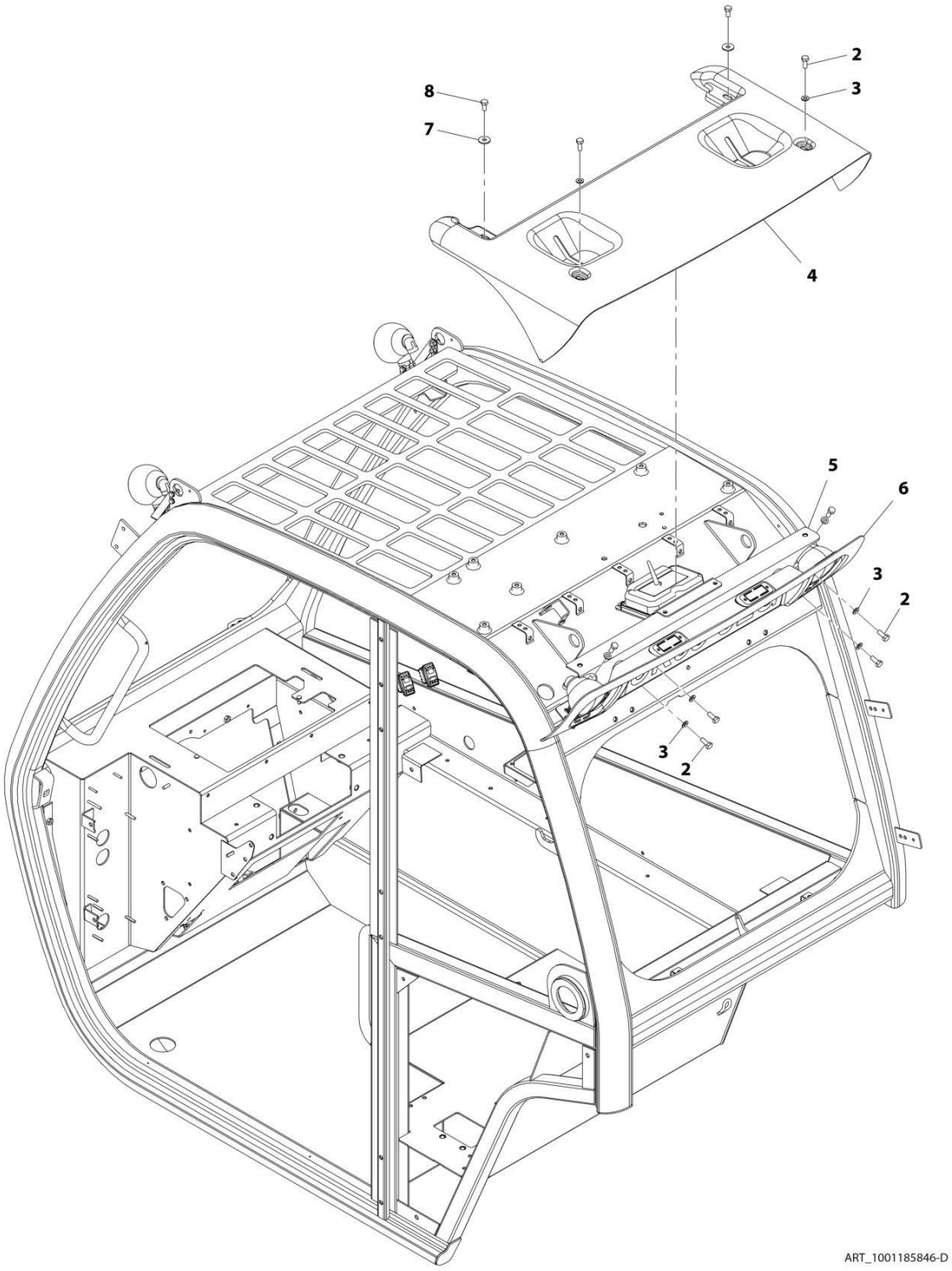


FIGURE 6-63. ROOF CAP INSTALLATION (WITHOUT A/C)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001185846	Ref	Roof Cap Installation (No A/C)	D
2	0760810	8	Bolt, M8X20	
3	4811900	8	Washer, M8	
4	1001182328	1	Cover, Short Upper Roof Cap	
5	1001185633	1	Bracket	
6	1001214535	2	Cover, Short Lower Roof Cap	
7	4811902	2	Washer, M8	
8	0760808	2	Bolt, M8X16	

FIGURE 6-64. ROOF PIGTAIL CAP INSTALLATION

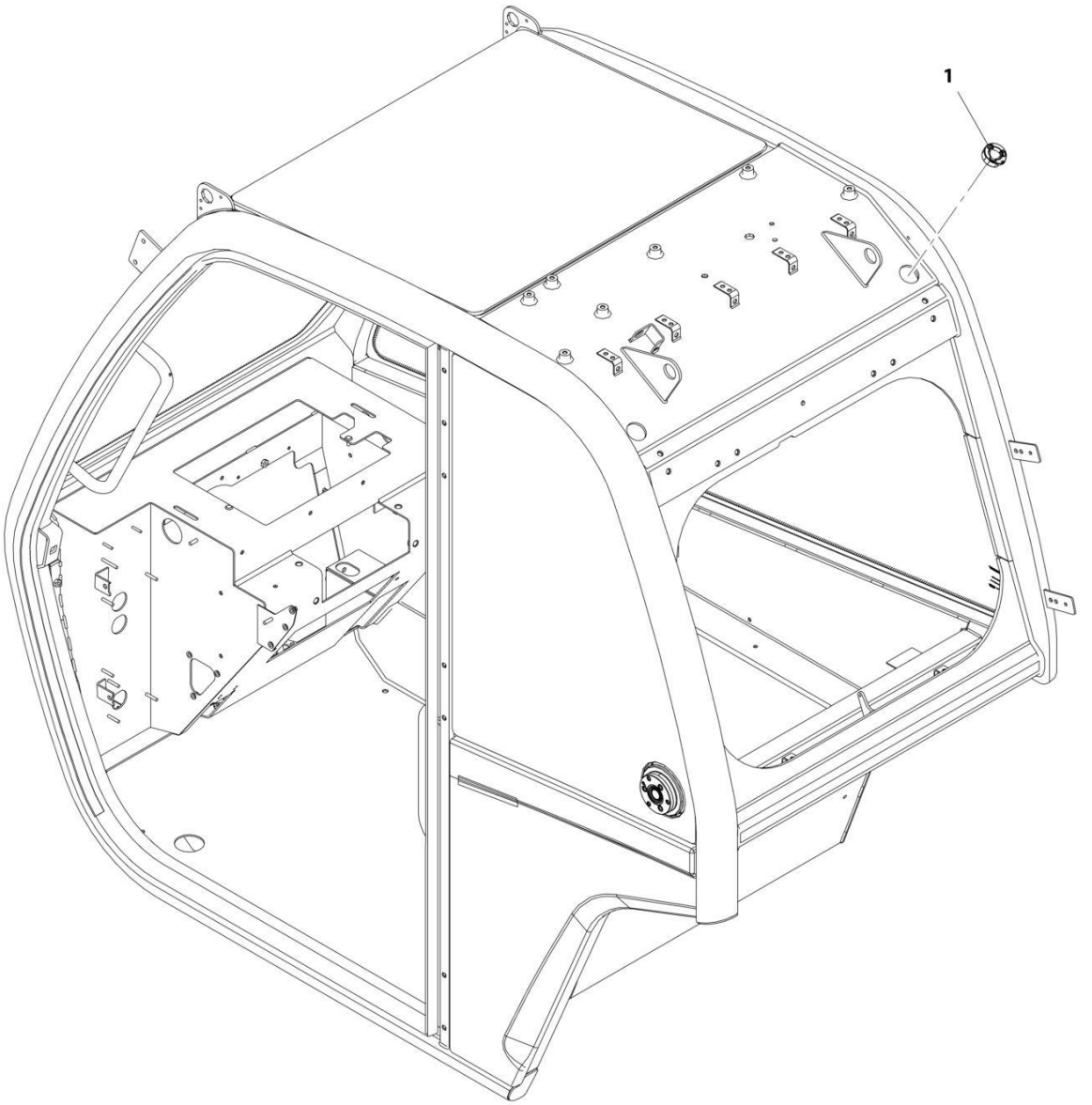


FIGURE 6-64. ROOF PIGTAIL CAP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202138	Ref	Roof Pigtail Cap Installation	A
1	1001202134	1	Cap, Deutsch Dust	

FIGURE 6-65. ROOF PIGTAIL INSTALLATION

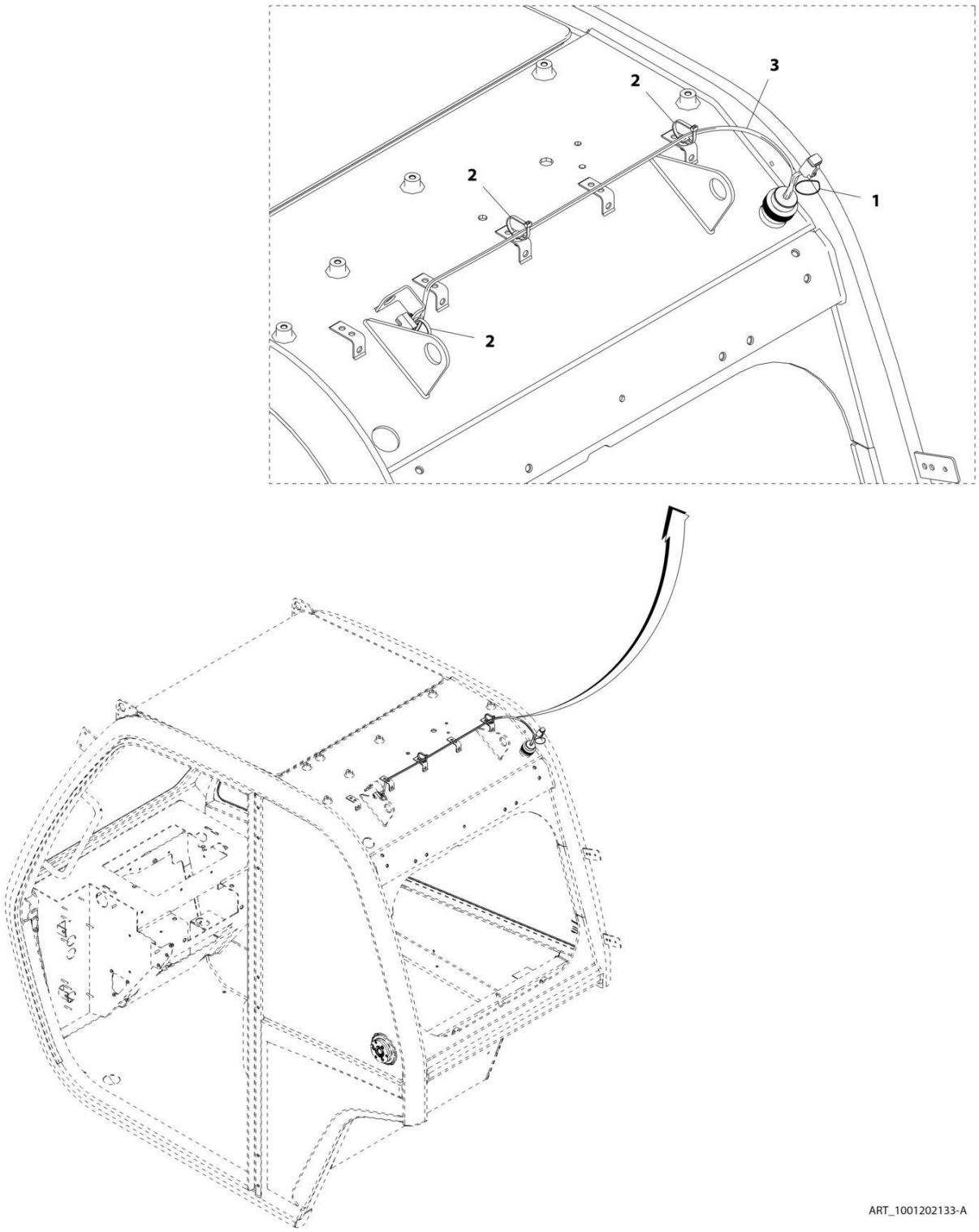


FIGURE 6-65. ROOF PIGTAIL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202133	Ref	Roof Pigtail Installation	A
1	4240033	1	Cable Tie	
2	1001146588	3	Strap	
	1001265200	1	Harness, Roof Pigtail (See Separate Breakdown in ELECTRICAL Section)	

FIGURE 6-66. RETRACTABLE SUNSCREEN INSTALLATION

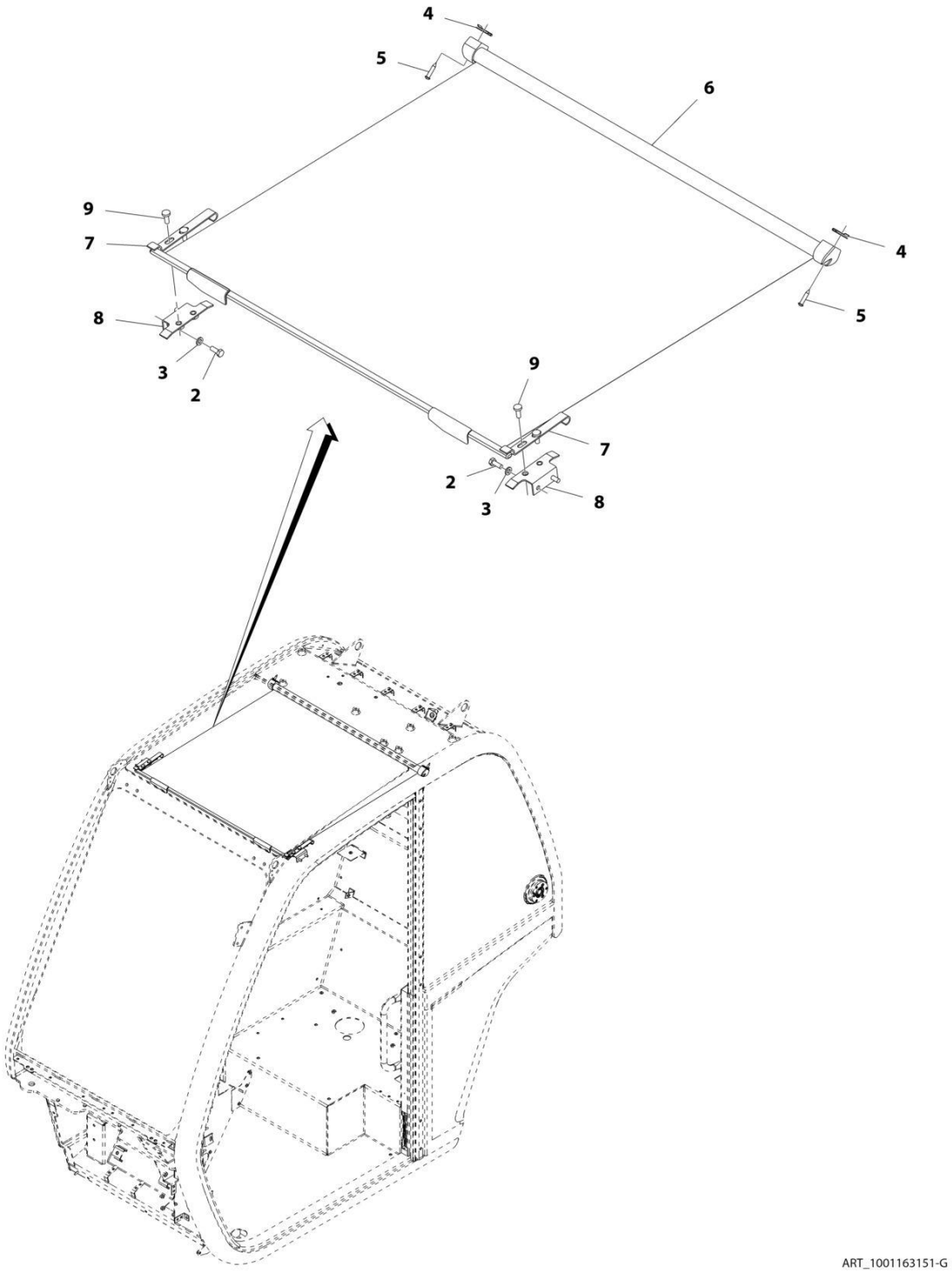


FIGURE 6-66. RETRACTABLE SUNSCREEN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163151	Ref	Retractable Sunscreen Installation	G
2	0760608	4	Bolt, M6X16	
3	4811700	4	Washer, M6	
4	1001111076	2	Nut	
5	1001111147	2	Screw	
6	1001163170	1	Cab, Screen Blind	
7	1001209463	2	Bracket, Sunscreen Mount	
8	1001166385	2	Bracket	
9	4010608002	4	Screw, M6X16	

FIGURE 6-67. SEAT INSTALLATION

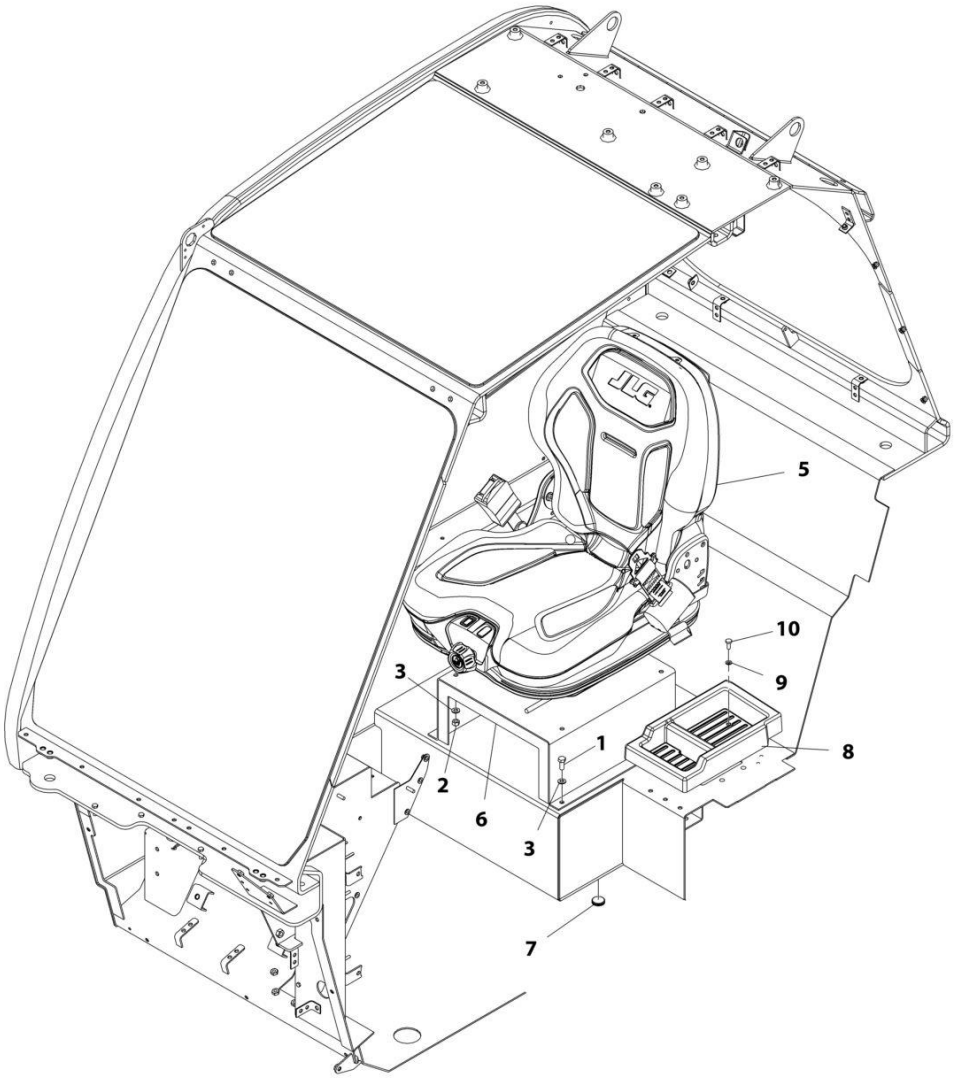


FIGURE 6-67. SEAT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001164615	Ref	Seat Installation	H
1	0760810	4	Bolt, M8X20	
2	3311505	4	Nut, Lock 5/16-18	
3	4811900	8	Washer, M8	
5	1001197027	1	Seat (See Separate Breakdown in this Section)	
6	1001164498	1	Plinth, Seat	
7	1001196076	1	Plug	
8	1001170515	1	Insert, Storage Tray	
9	4811700	1	Washer, M6	
10	4010608002	1	Screw, Posi-Drive, M6X16	

FIGURE 6-68. SEAT BELT INSTALLATION

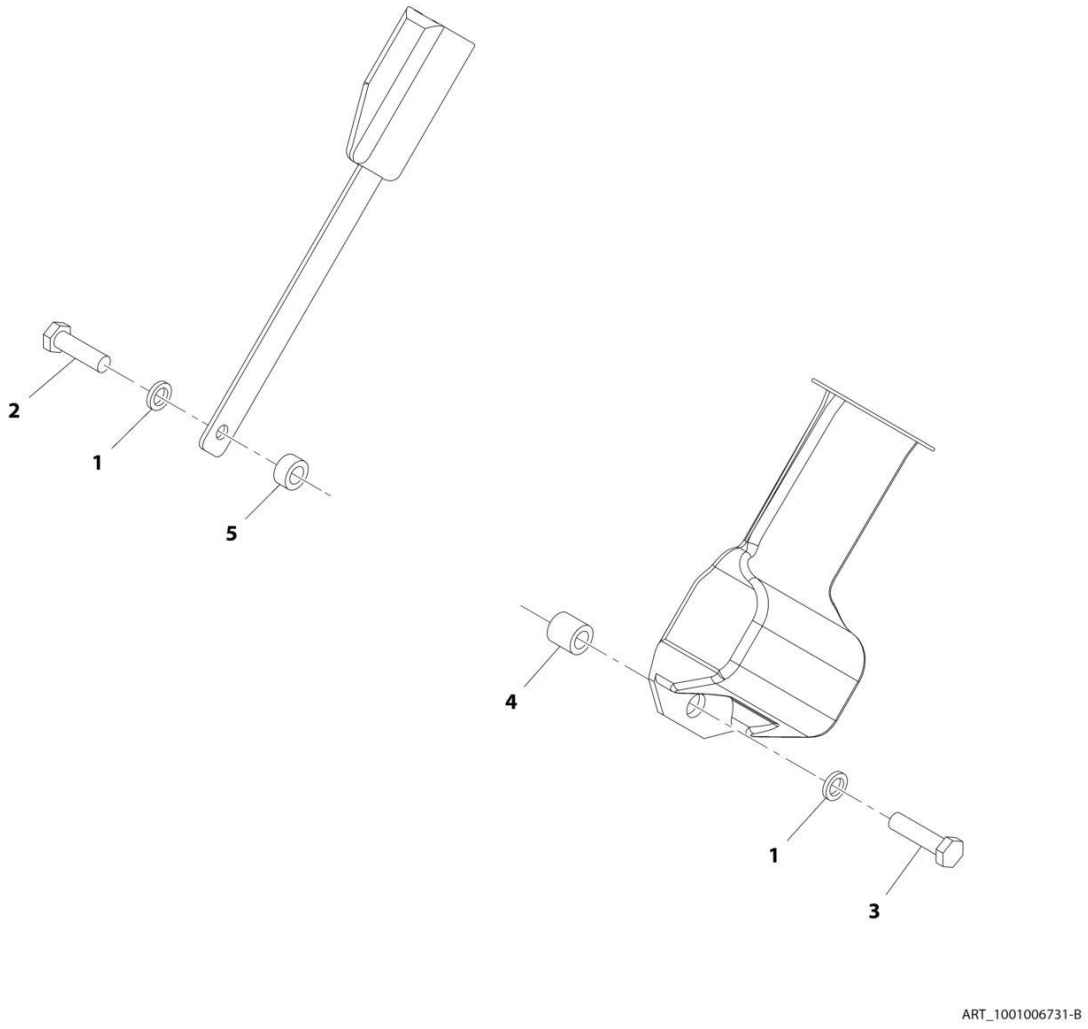


FIGURE 6-68. SEAT BELT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001006731	Ref	Seat Belt Installation (3IN)	B
1	1001010646	2	Washer	
2	1001010647	1	Bolt	
3	1001010648	1	Bolt	
4	1001010649	1	Spacer	
5	1001010650	1	Spacer	

FIGURE 6-69. SEAT ASSEMBLY

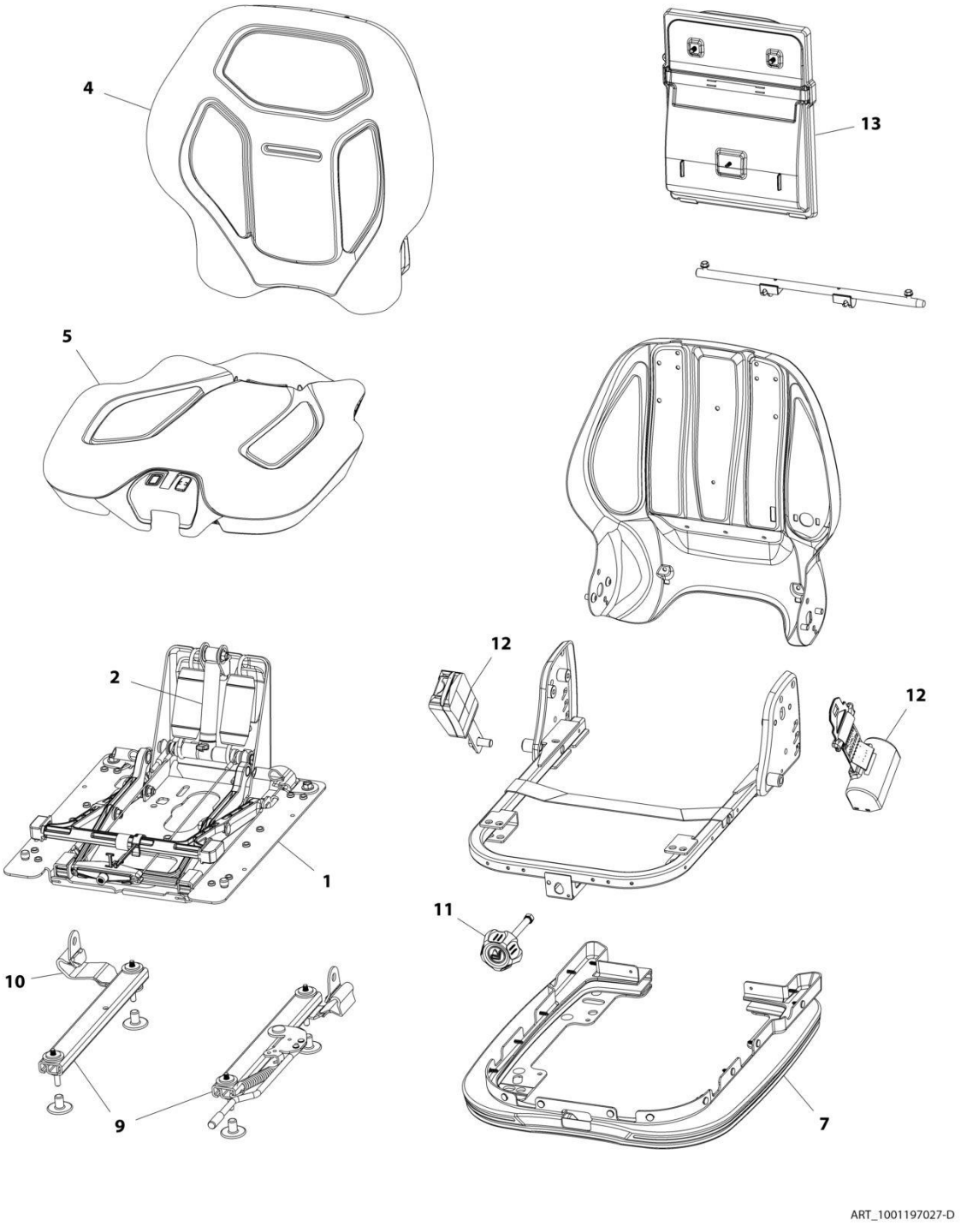
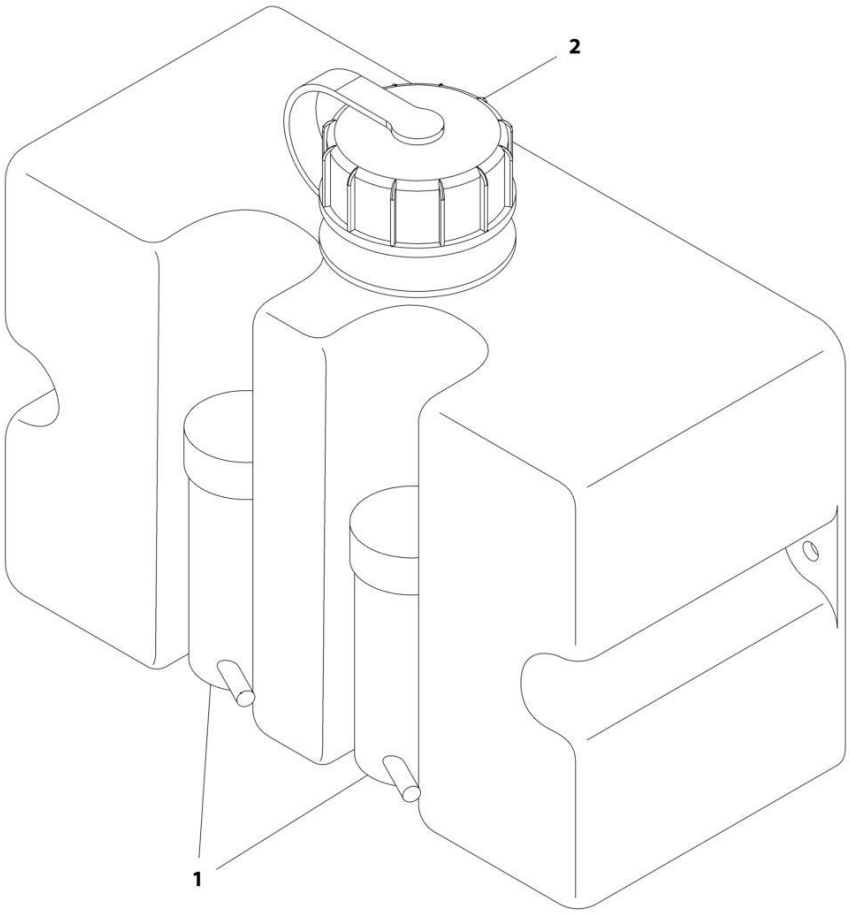


FIGURE 6-69. SEAT ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197027	Ref	Seat	E
1	70027024	1	Suspension Assembly Kit	
2	70027025	1	Spring Saddle Assembly Kit	
4	70027026	1	Back Cushion Kit	
5	70027028	1	Seat Cushion Assembly Kit	
7	70027030	1	Boot Kit	
9	7026798	1	Adjuster Kit	
10	70027032	1	Tether Strap	
11	70027033	1	Weight Adjust Knob Kit	
12	70027034	2	Seat Belt Kit	
13	70027035	1	Document Box Kit	

FIGURE 6-70. WASHER BOTTLE



ART_1001165269-B

FIGURE 6-70. WASHER BOTTLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165269	Ref	Washer Bottle	B
1	1001165327	2	Pump, Washer	
2	1001165273	1	Cap, Washer	

FIGURE 6-71. WASHER TANK INSTALLATION

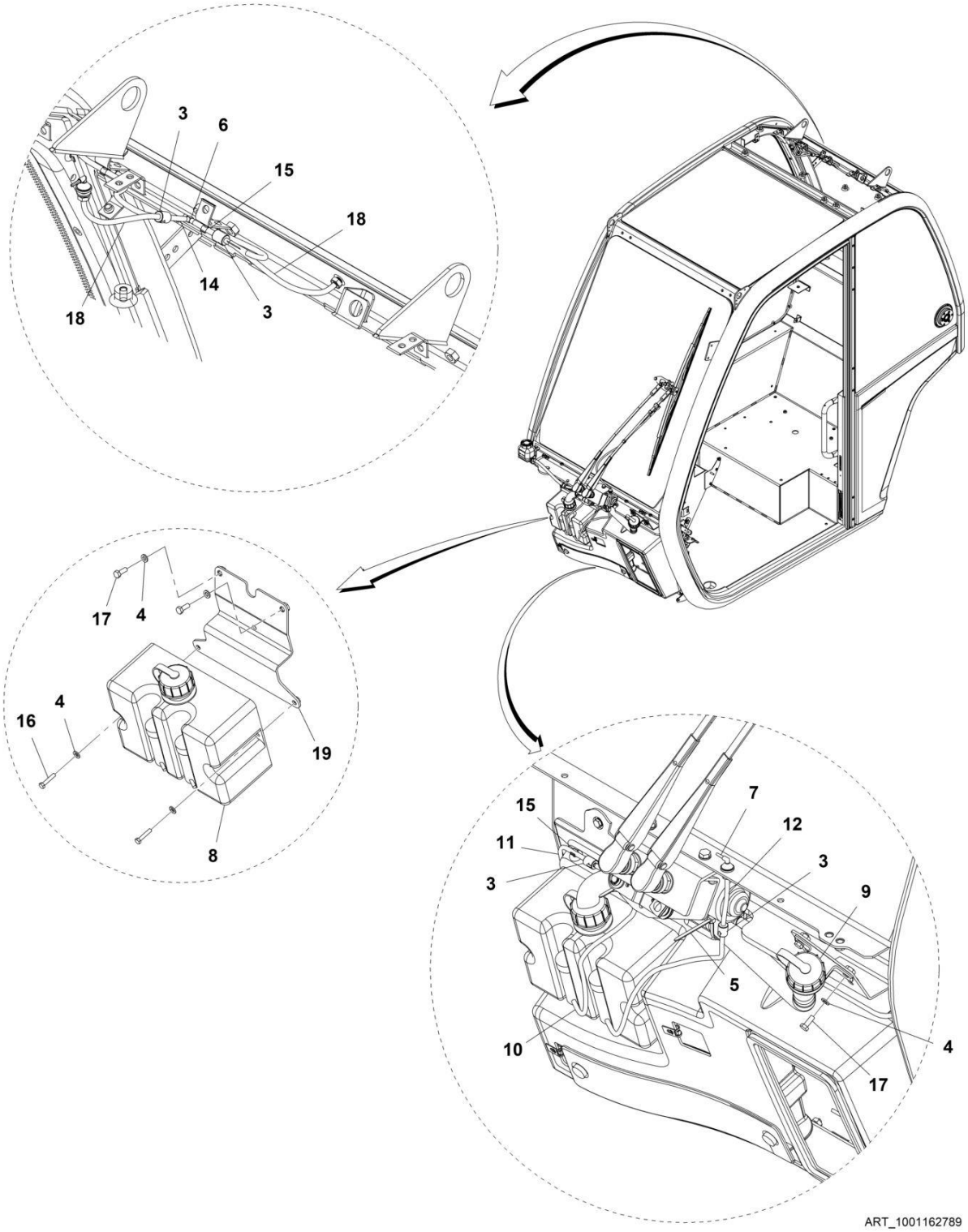


FIGURE 6-71. WASHER TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162789	Ref	Washer Tank Installation	M
3	1001201331	4	Valve, Check	
4	4811700	6	Washer, M6	
5	471678	2	Strap, Tie	
6	1001008742	1	Coupling, Tee	
8	1001165269	1	Bottle, Washer (See Separate Breakdown in this Section)	
9	1001165270	1	Hose, Washer Filler	
10	1001165351	2	Hose	
11	1001165407	1	Hose	
12	1001165416	1	Hose	
14	1001165455	2	Hose	
15	1001165458	16	Hose	
16	0760512	2	Bolt M5X25	
17	0760608	4	Bolt, M6X16	
18	1001178123	2	Hose	
19	1001171756	1	Bracket	

SECTION 7 - CONTROLS

FIGURE 7-1. ACCELERATOR PEDAL INSTALLATION

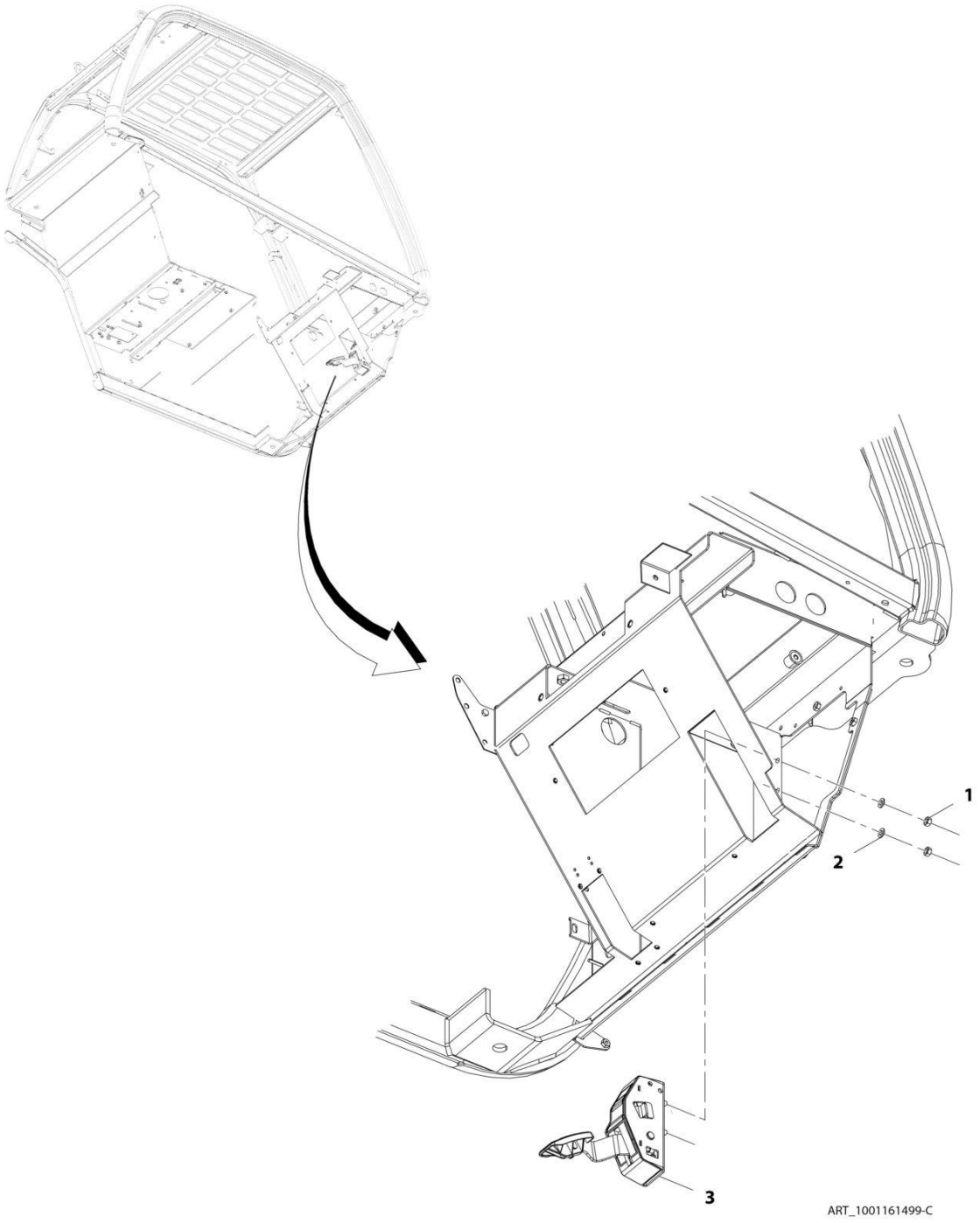


FIGURE 7-1. ACCELERATOR PEDAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161499	Ref	Accelerator Pedal Installation	C
1	3290801	2	Nut, M8X1.25	
2	4811900	2	Washer, M8	
3	1001159028	1	Pedal, Accelerator (See Separate Breakdown in this Section)	

FIGURE 7-2. ACCELERATOR PEDAL ASSEMBLY

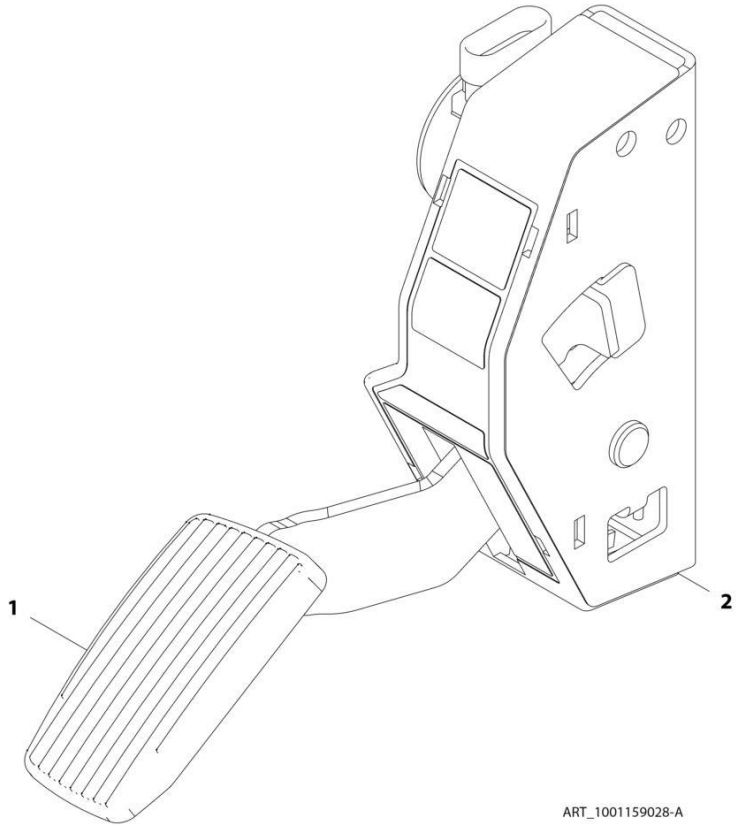


FIGURE 7-2. ACCELERATOR PEDAL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159028	Ref	Accelerator Pedal	A
1	70025816	1	Pad, Rubber	
2	70025817	1	Cover, Rubber	

FIGURE 7-3. BRAKE PEDAL INSTALLATION

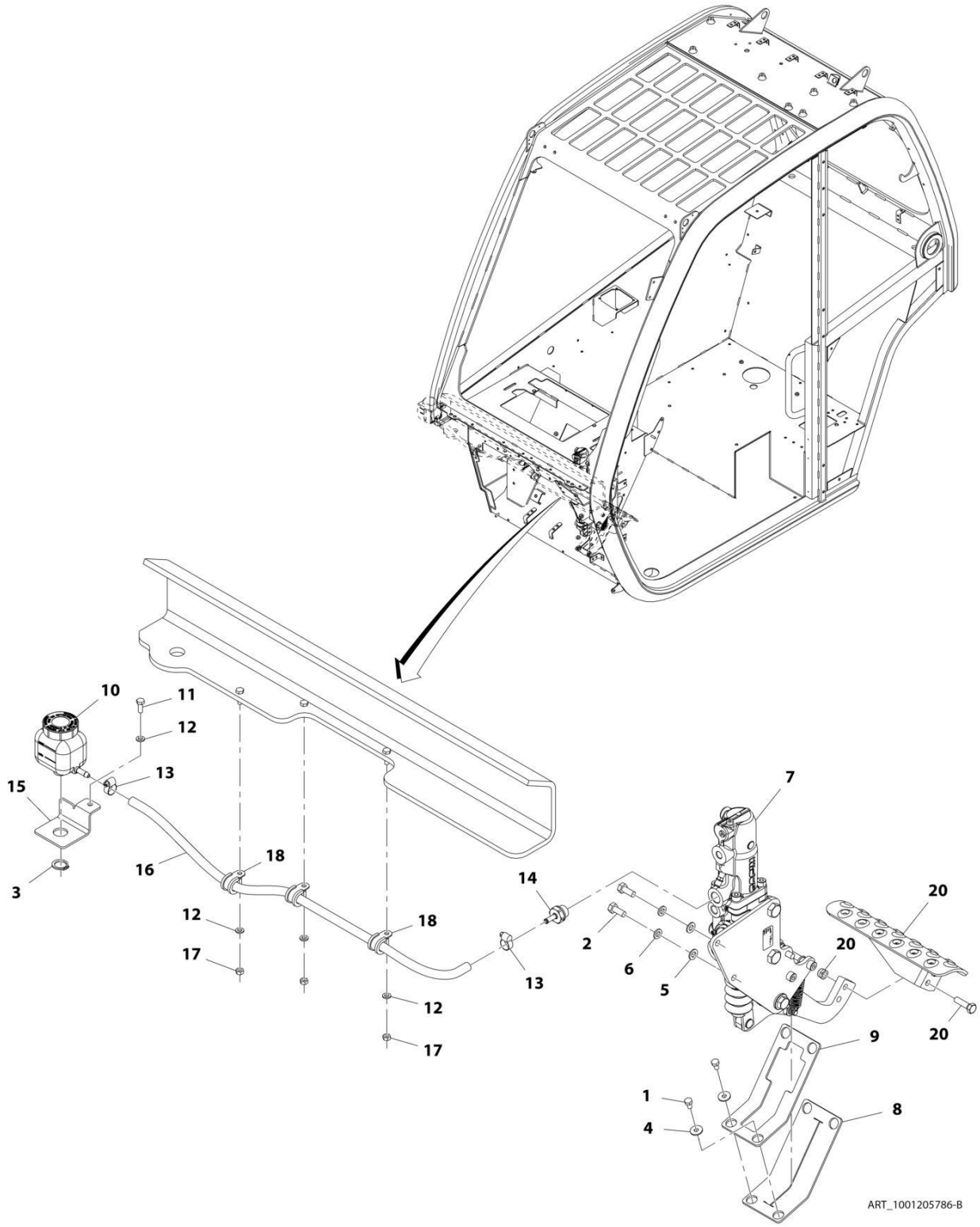
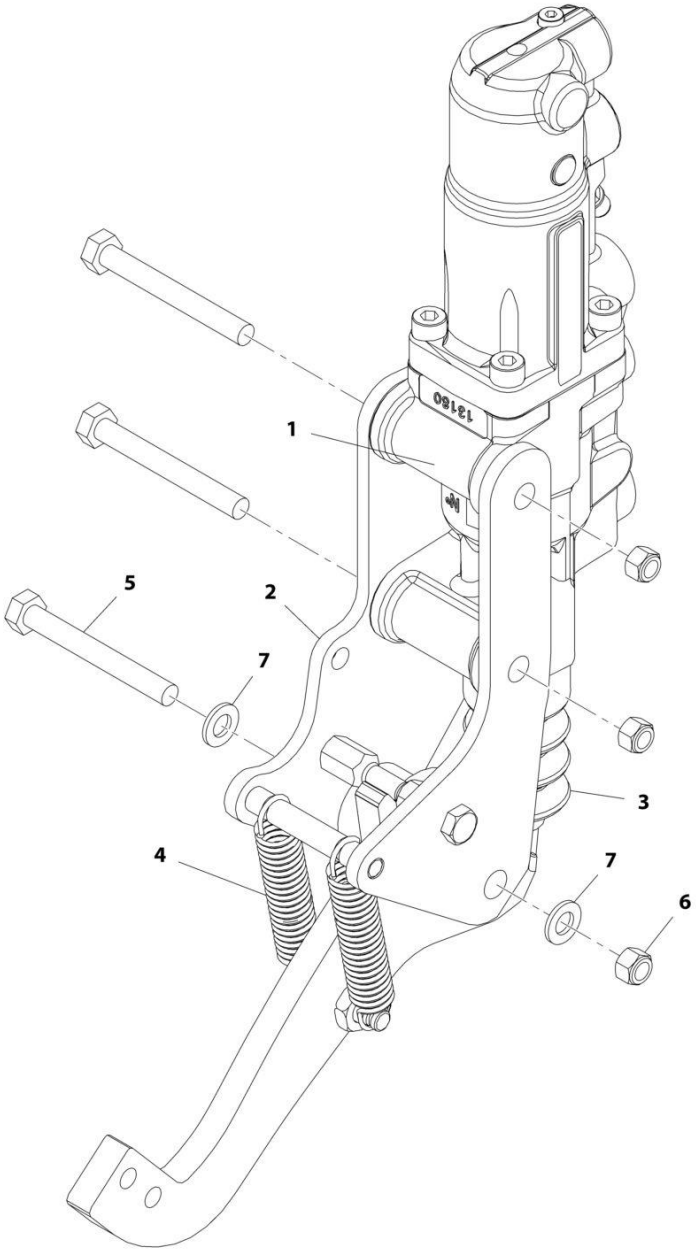


FIGURE 7-3. BRAKE PEDAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001205786	Ref	Brake Pedal Installation	B
1	0760605	4	Bolt, M6X10	
2	0760810	3	Bolt, M8X20	
3	3760348	1	Ring, Retaining	
4	4811702	4	Washer, M6	
5	4811900	3	Washer, M8	
6	4831900	3	Washer, Lock M8	
7	1001197137	1	Pedal, Brake (See Separate Breakdown in this Section)	
8	1001162920	1	Gasket, Brake Pedal	
9	1001162922	1	Plate	
10	1001214220	1	Reservoir, Brake	
11	0760608	1	Bolt, M6X16	
12	4811700	4	Washer, M6	
13	8405009	2	Clamp, Gear	
14	1001171874	1	Fitting, Straight	
15	1001172088	1	Bracket, Brake Reservoir	
16	1001172094	1	Hose, Brake Reservoir	
17	3290601	3	Nut, M6X1	
18	1001170231	3	Clip, M6X15	
20	1001197139	1	Plate, Brake Pedal (See Separate Breakdown in this Section)	

FIGURE 7-4. BRAKE PEDAL



ART_1001197137-B

FIGURE 7-4. BRAKE PEDAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197137	Ref	Brake Pedal	B
1	70026537	1	Cylinder, Master	
2	70026433	1	Support	
3	70025859	1	Cover, Dust	
4	70025860	2	Spring, Return	
5	0701226	3	Bolt, M12X90	
6	3291205	3	Nut, Lock M12X1.75	
7	4812100	2	Washer, M12	

FIGURE 7-5. BRAKE PEDAL PLATE

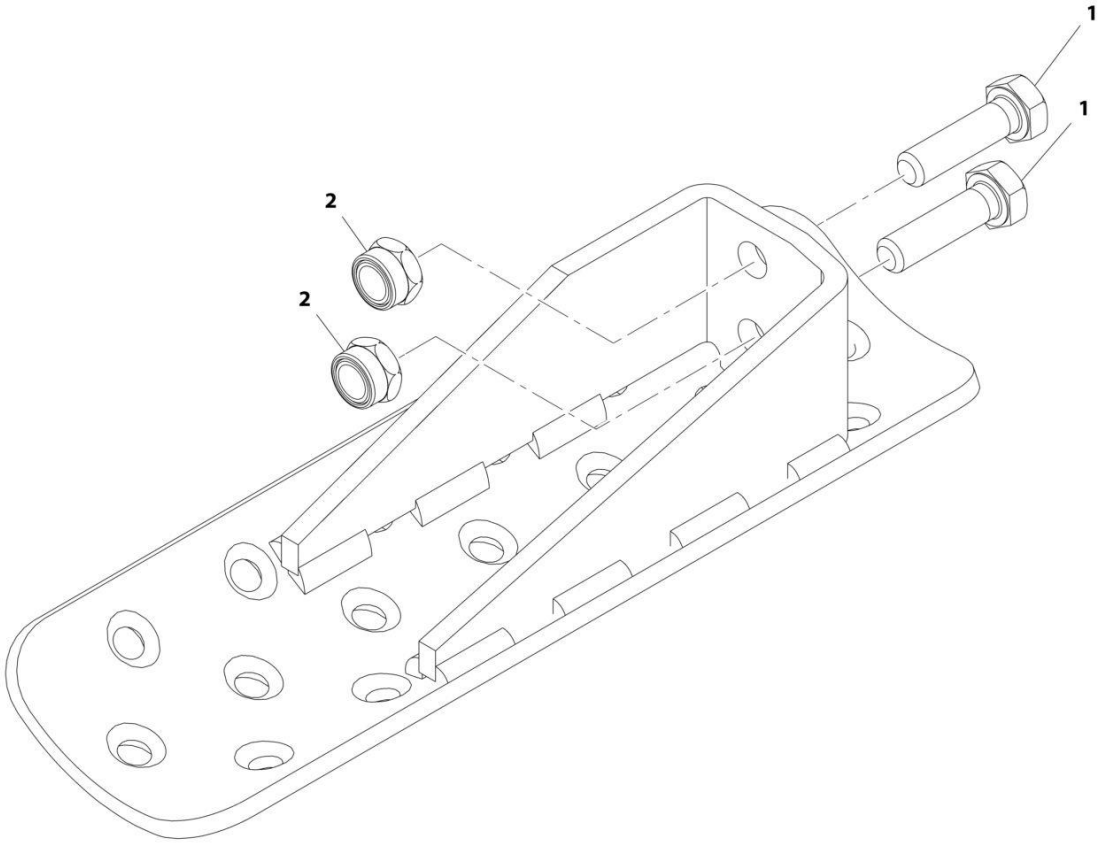


FIGURE 7-5. BRAKE PEDAL PLATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197139	Ref	Brake Pedal Plate	A
1	0770814	1	Bolt, M8X30 Grade 10.9	
2	3290805	1	Nut, Lock M8X1.25 Grade 8	

FIGURE 7-6. COLUMN CLAMP INSTALLATION

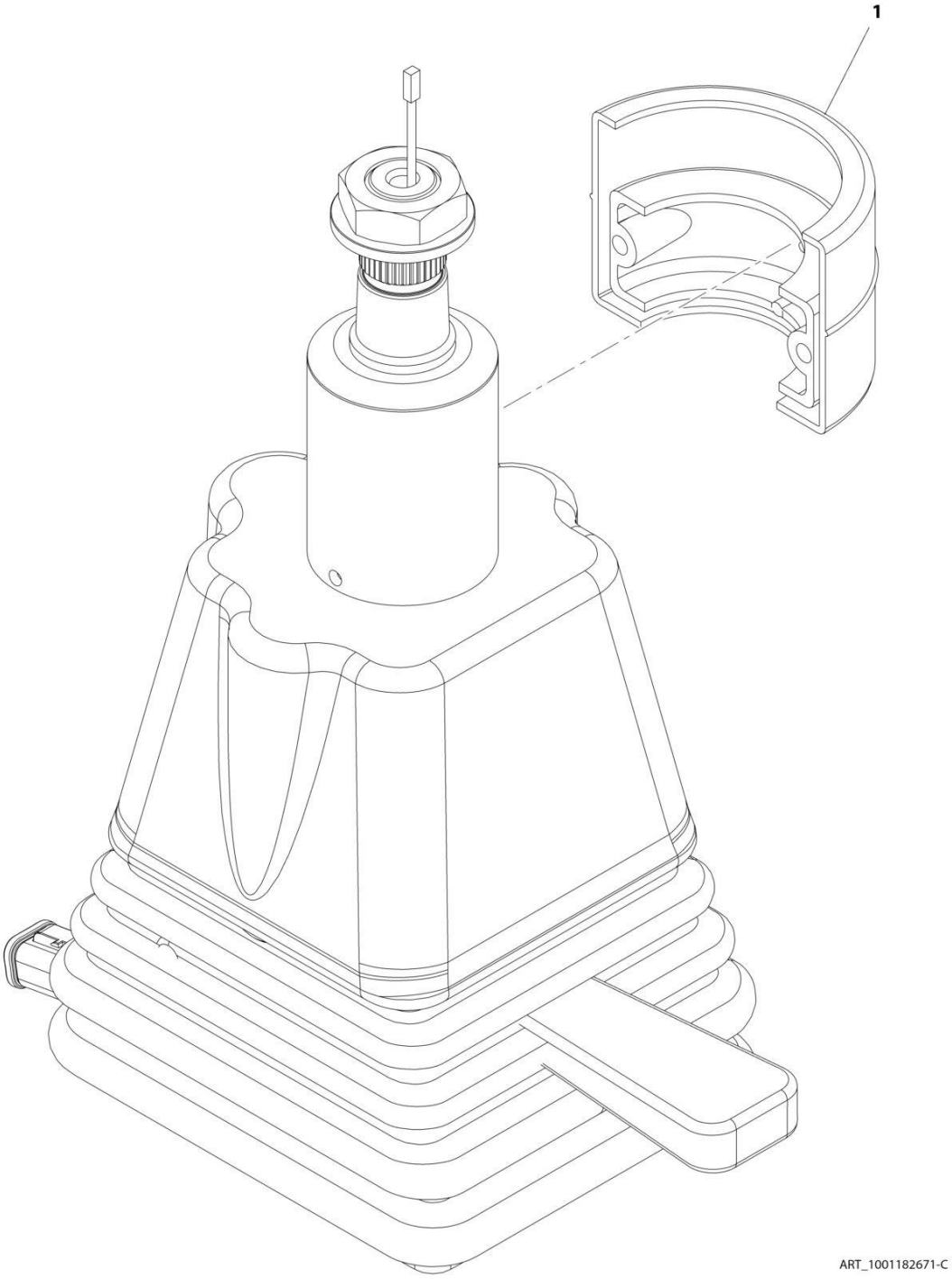
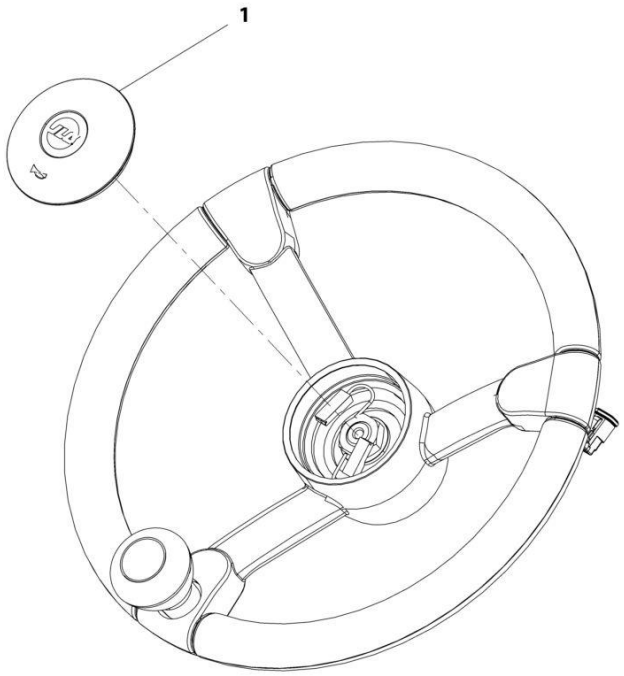


FIGURE 7-6. COLUMN CLAMP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001182671	Ref	Column Clamp Installation	C
1	1001199640	1	Clamp	

FIGURE 7-7. HORN BUTTON INSTALLATION



ART_1001169763-A

FIGURE 7-7. HORN BUTTON INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169763	Ref	Horn Button Installation	A
1	1001169268	1	Button, Horn	

FIGURE 7-8. JOYSTICK INSTALLATION

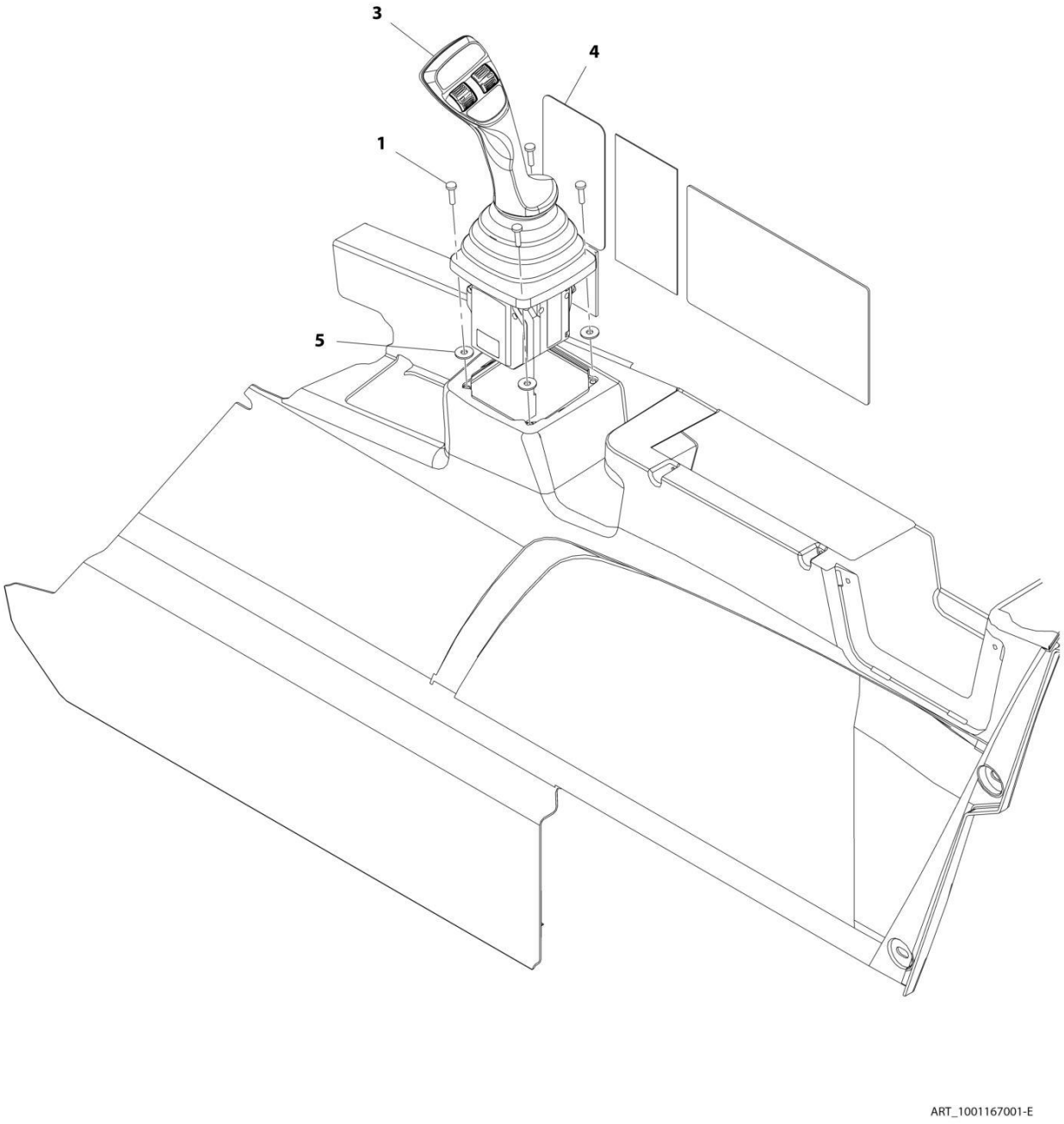


FIGURE 7-8. JOYSTICK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167001	Ref	Joystick Installation (2 Roller, 0 Button)	E
1	4010510	4	Screw, M5X20	
3	1001222609	1	Joystick (See Separate Breakdown in this Section)	
4	1001181543	1	Decal, Joystick	
5	4811702001	AR	Washer	

FIGURE 7-9. JOYSTICK ASSEMBLY (Prior to SN 0160080898)

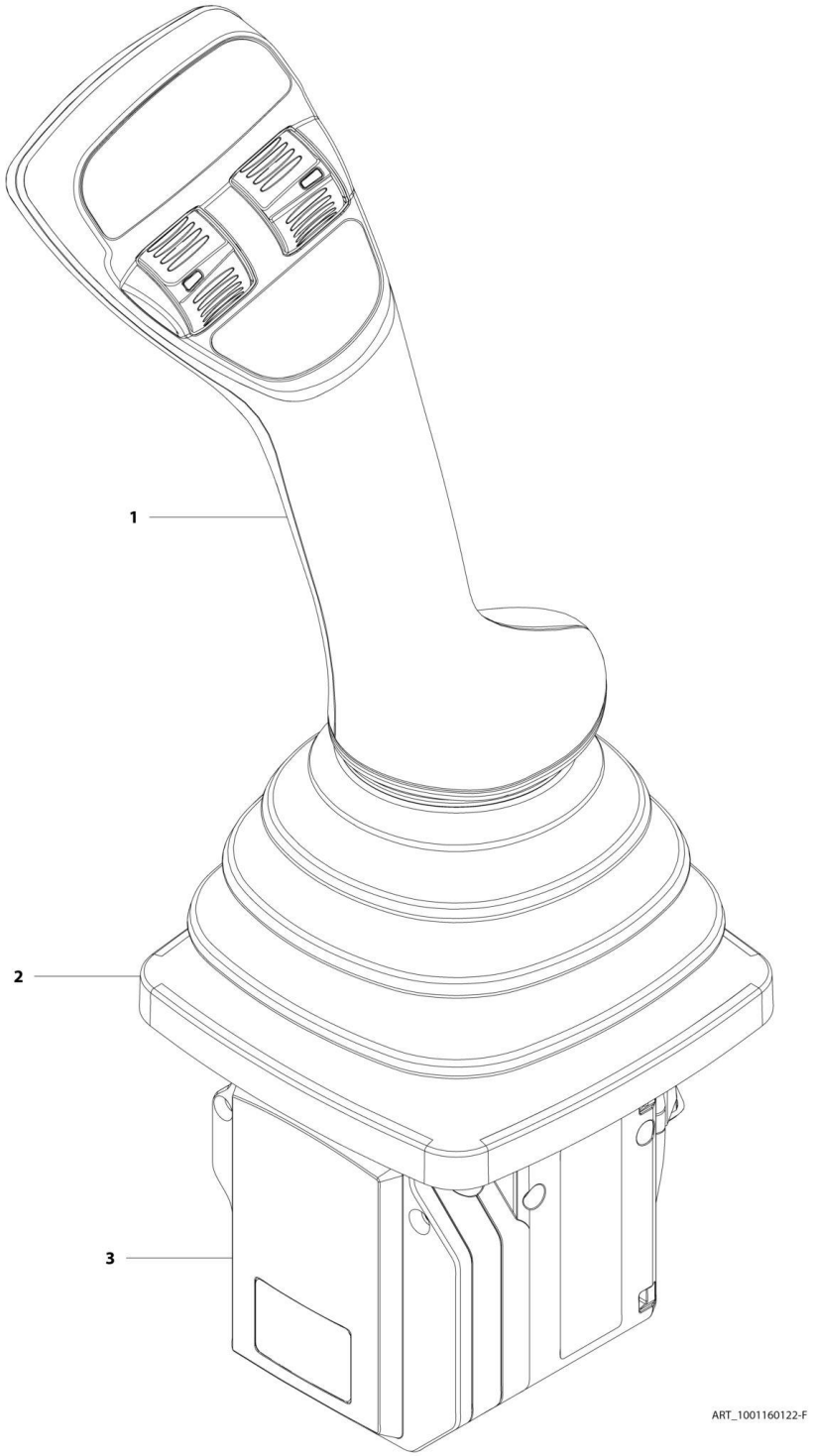


FIGURE 7-9. JOYSTICK ASSEMBLY (Prior to SN 0160080898)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160122	NLA	Joystick, (no longer available, use 1001222609 for replacement)	F
	1001222609	Ref	Joystick	A
1	70026257	1	Handle, Joystick	
2	70025844	1	Gaiter	
3	70026258	1	Base, Joystick	

FIGURE 7-10. JOYSTICK ASSEMBLY (SN 0160080898 to Present)

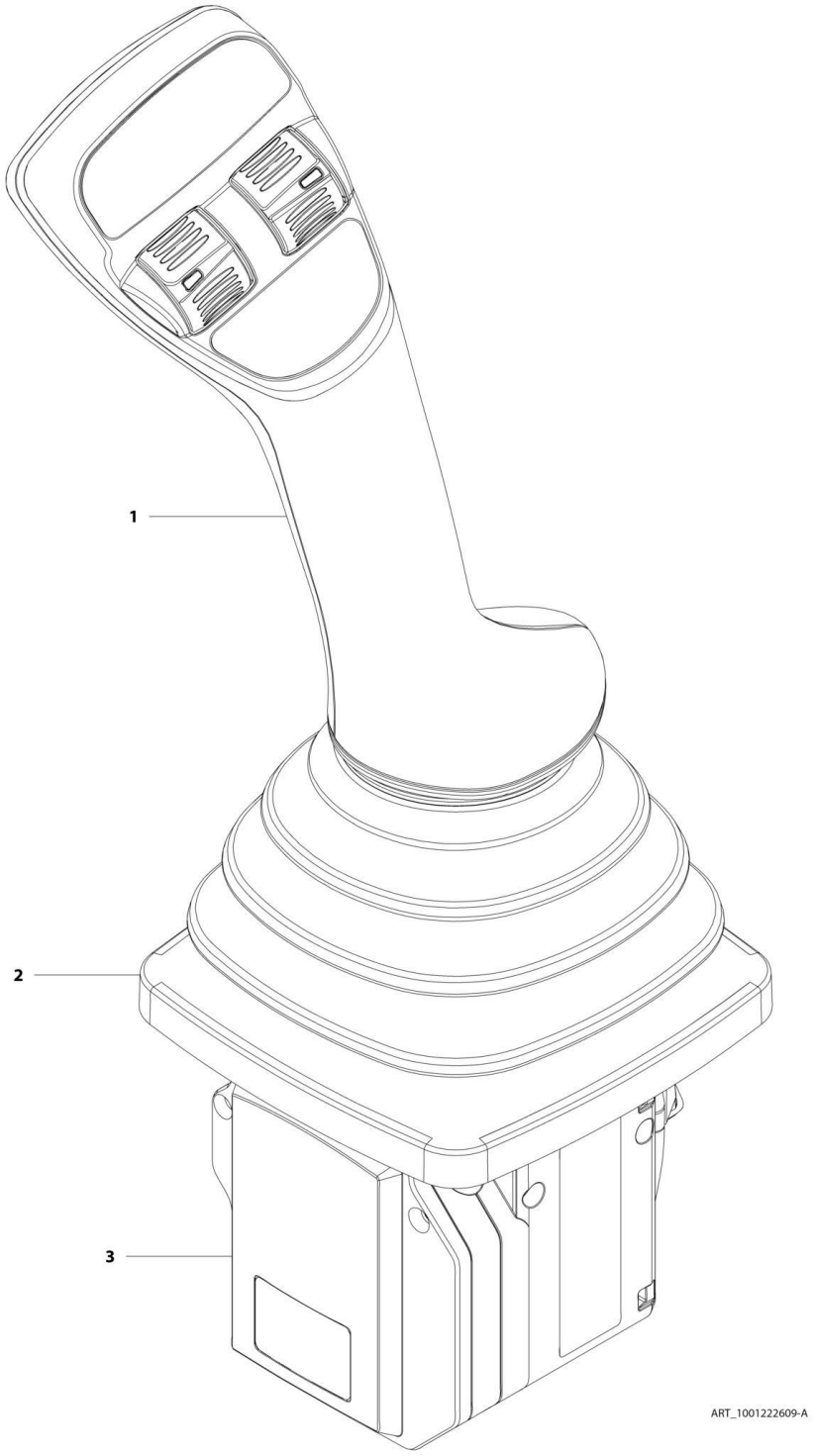


FIGURE 7-10. JOYSTICK ASSEMBLY (SN 0160080898 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222609	Ref	Joystick	A
1	70026257	1	Handle, Joystick	
2	70025844	1	Gaiter	
3	70026258	1	Base, Joystick	

FIGURE 7-11. OUTRIGGER SWITCHES INSTALLATION

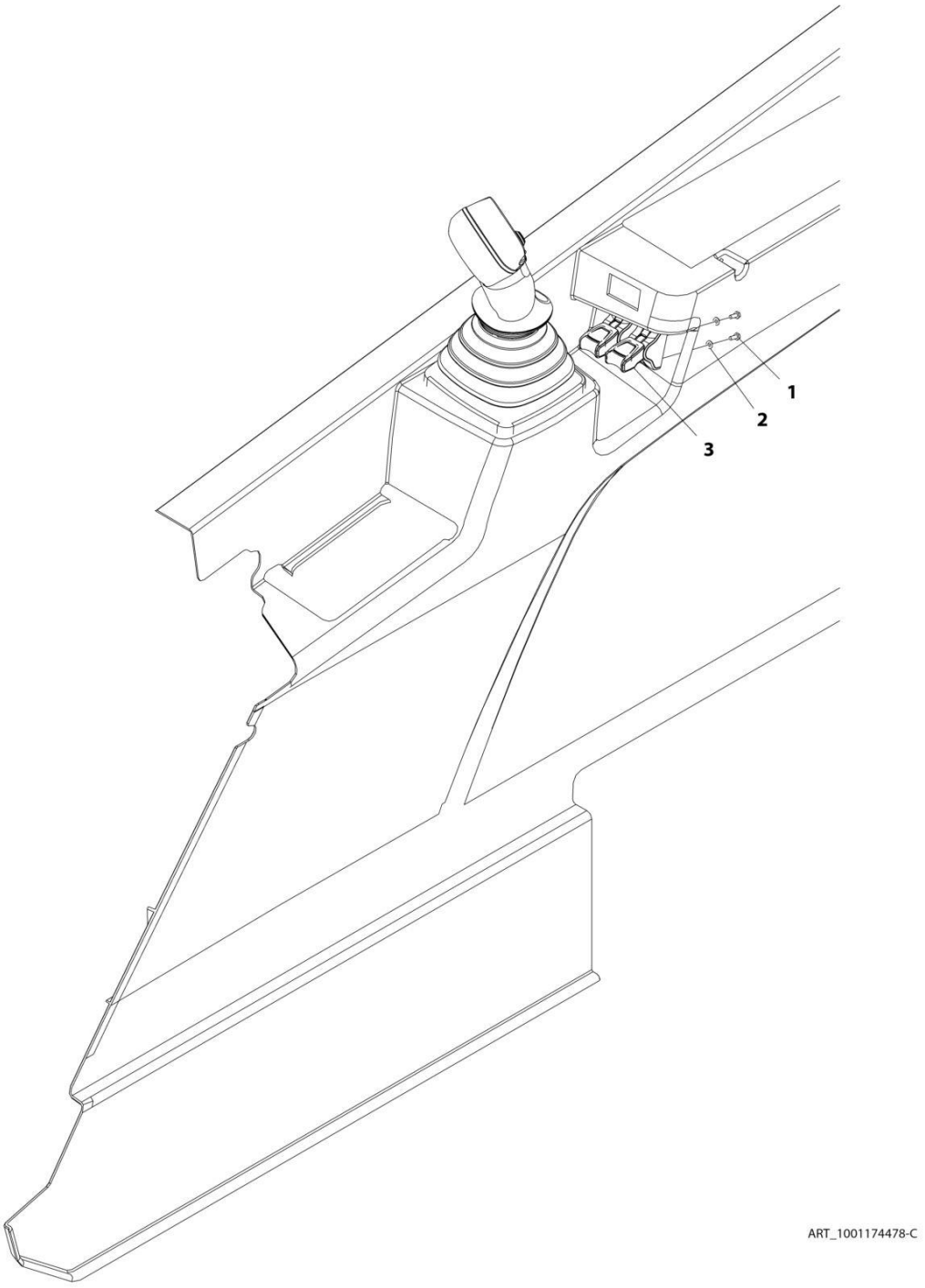


FIGURE 7-11. OUTRIGGER SWITCHES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174478	Ref	Outrigger Switches Installation	C
1	0760304	4	Bolt, M3X8 GR8.8	
2	1001110544	4	Washer, M3	
3	1001242098	2	Control, Fingertip Joystick	

FIGURE 7-12. STEERING COLUMN INSTALLATION (EMERGENCY STEERING)

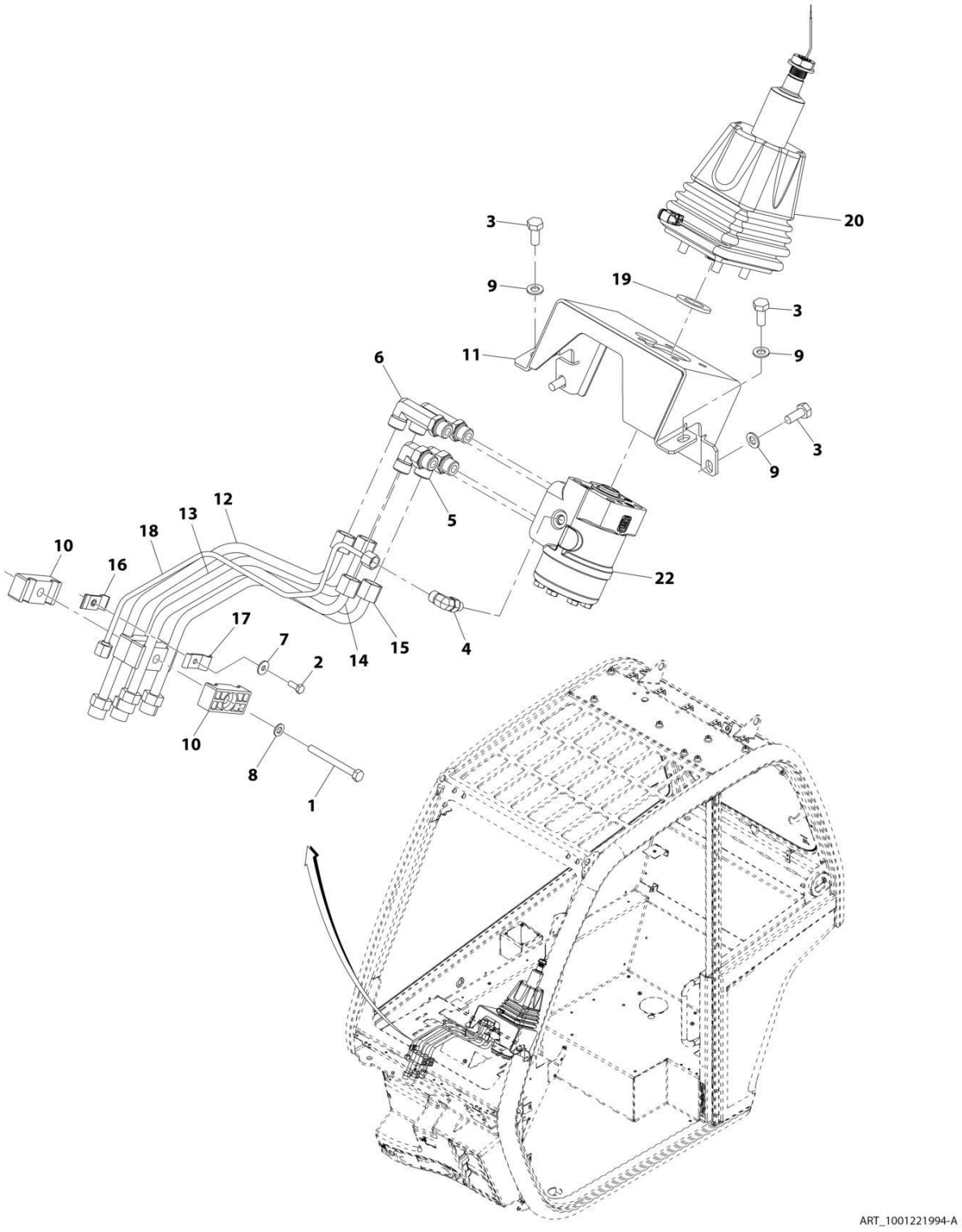


FIGURE 7-12. STEERING COLUMN INSTALLATION (EMERGENCY STEERING)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221994	Ref	Steering Column Installation (Emergency Steering)	A
1	0700824	1	Bolt, M8X80	
2	0760608	1	Bolt, M6X16	
3	0761012	8	Bolt, M10X25	
4	2130404	1	Fitting, 90 ORFS	
5	2130808	2	Fitting, 90 ORFS	
6	2170208	2	Fitting, 90 ORFS	
7	4811702	1	Washer, M6	
8	4811900	1	Washer, M8	
9	4812000	8	Washer, M10	
10	1001004640	4	Clamp	
11	1001156265	1	Cab, Steering Column Support	
12	1001161672	1	Pipe	
13	1001161896	1	Pipe	
14	1001161897	1	Pipe	
15	1001161898	1	Pipe	
16	1001168142	1	Bracket	
17	1001168151	1	Bracket	
18	1001194282	1	Pipe	
19	1001214480	1	Washer	
20	1001214481	1	Column, Steering	
22	1001219396	1	Valve, Steering Unit	

FIGURE 7-13. STEERING COLUMN INSTALLATION

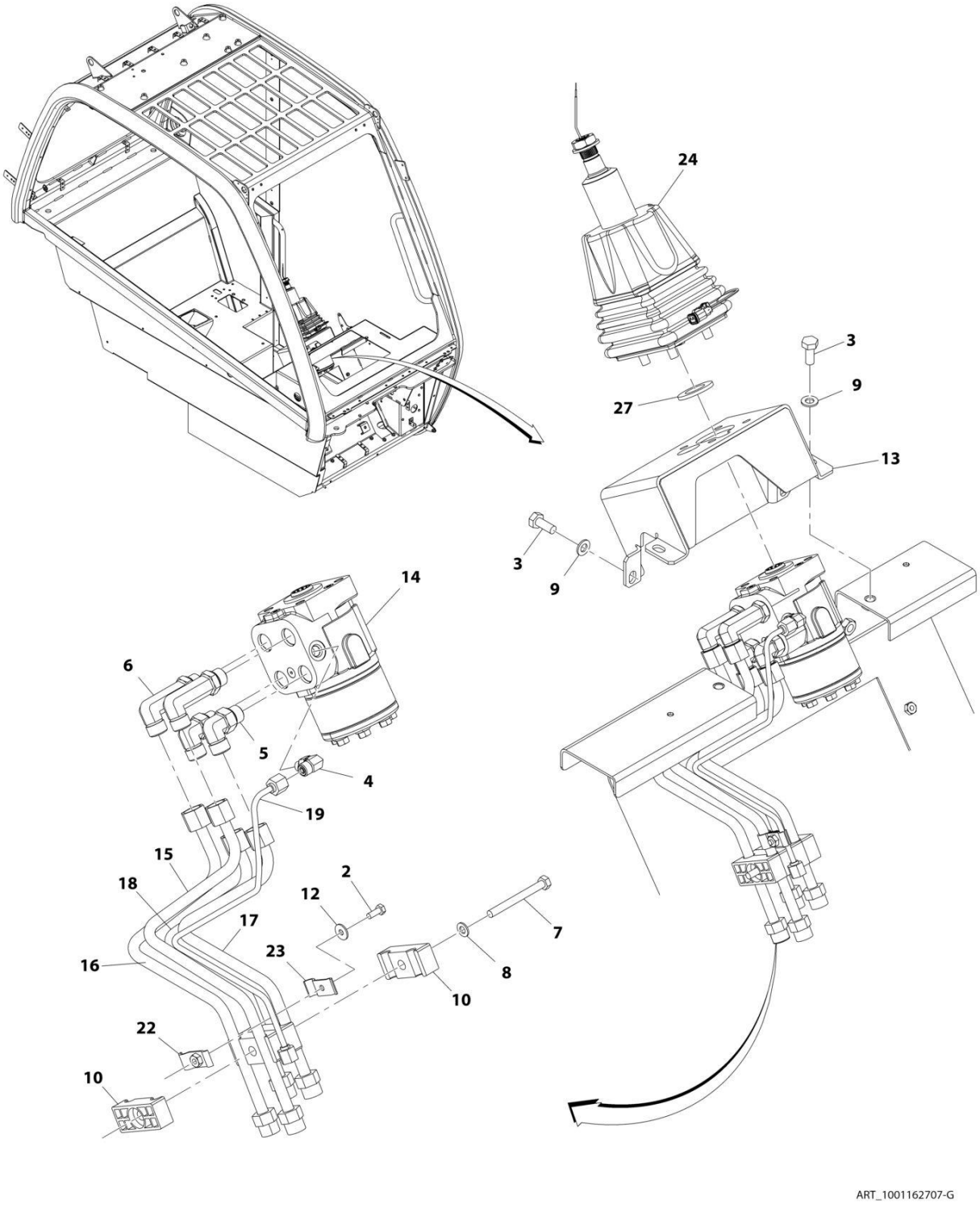


FIGURE 7-13. STEERING COLUMN INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162707	Ref	Steering Column Installation	G
2	0760608	1	Bolt, M6X16	
3	0761012	8	Bolt, M10X25	
4	2130404	1	Fitting, 90 ORFS	
5	2130808	2	Fitting, 90 ORFS	
6	2170208	2	Fitting, 90 ORFS	
7	0700824	1	Bolt, M8X80	
8	4811900	1	Washer, M8	
9	4812000	8	Washer, M10	
10	1001004640	4	Clamp	
12	4811702	1	Washer, M6	
13	1001156265	1	Plate	
14	1001160599	1	Valve, Steering Unit (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
15	1001161672	1	Pipe	
16	1001161896	1	Pipe	
17	1001161897	1	Pipe	
18	1001161898	1	Pipe	
19	1001162979	1	Pipe	
22	1001168142	1	Bracket	
23	1001168151	1	Bracket	
24	1001214481	1	Column, Steering	
27	1001214480	1	Washer	

FIGURE 7-14. STEERING WHEEL INSTALLATION

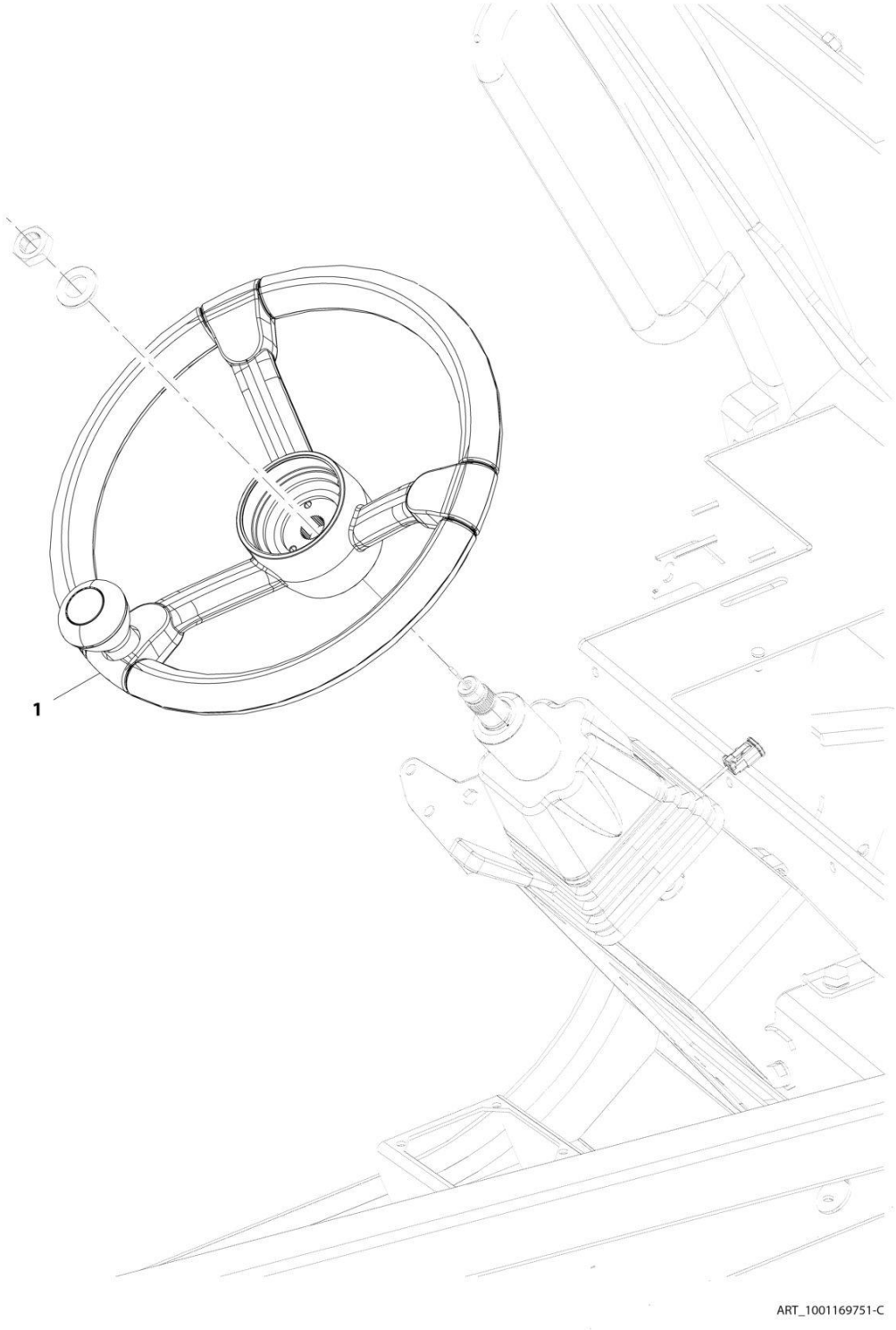
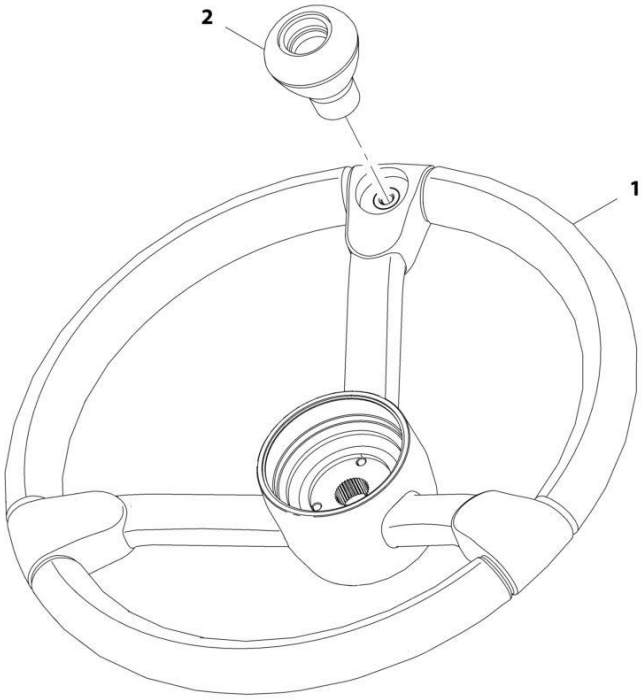


FIGURE 7-14. STEERING WHEEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169751	Ref	Steering Wheel Installation	C
1	1001169354	1	Wheel, Steering (See Separate Breakdown in this Section)	

FIGURE 7-15. STEERING WHEEL ASSEMBLY



ART_1001169354-D

FIGURE 7-15. STEERING WHEEL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169354	Ref	Steering Wheel	D
1	1001169367	1	Wheel, Steering	
2	1001169355	1	Handle, Steer Spinner	

FIGURE 7-16. WIPER-TURN SWITCH

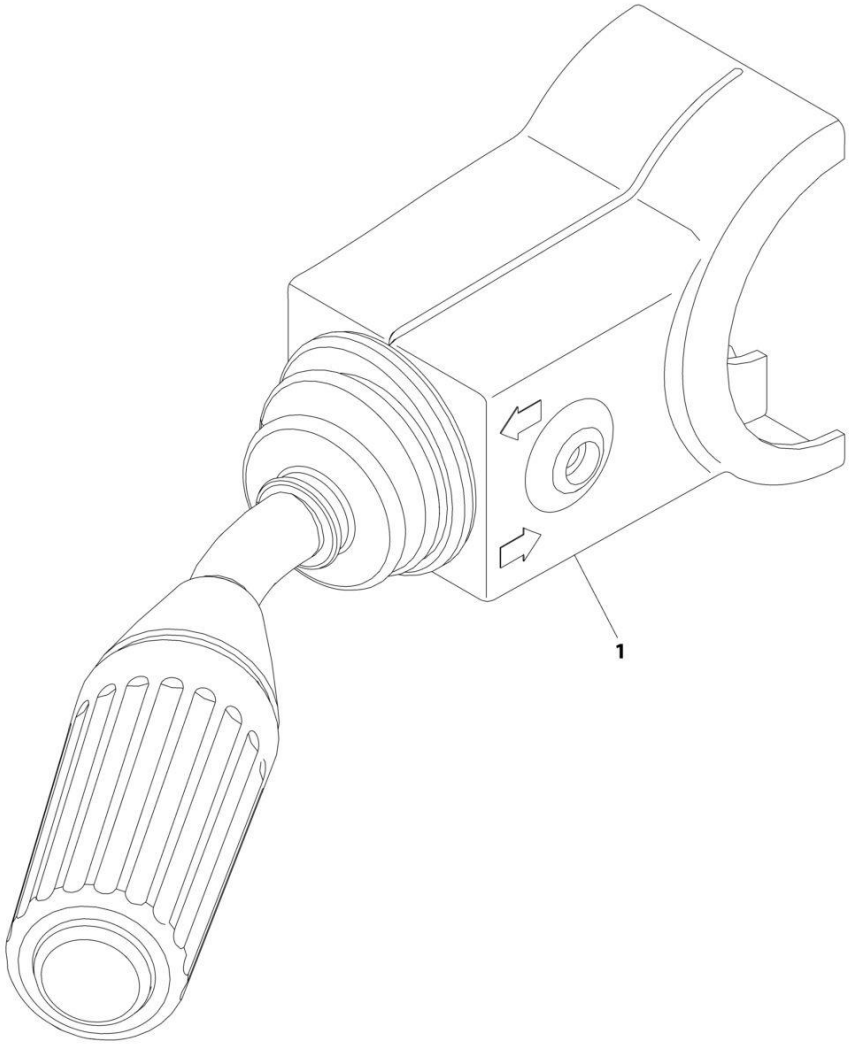


FIGURE 7-16. WIPER-TURN SWITCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001163695	1	Wiper-Turn Switch	B

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. BOOM HYDRAULIC INSTALLATION

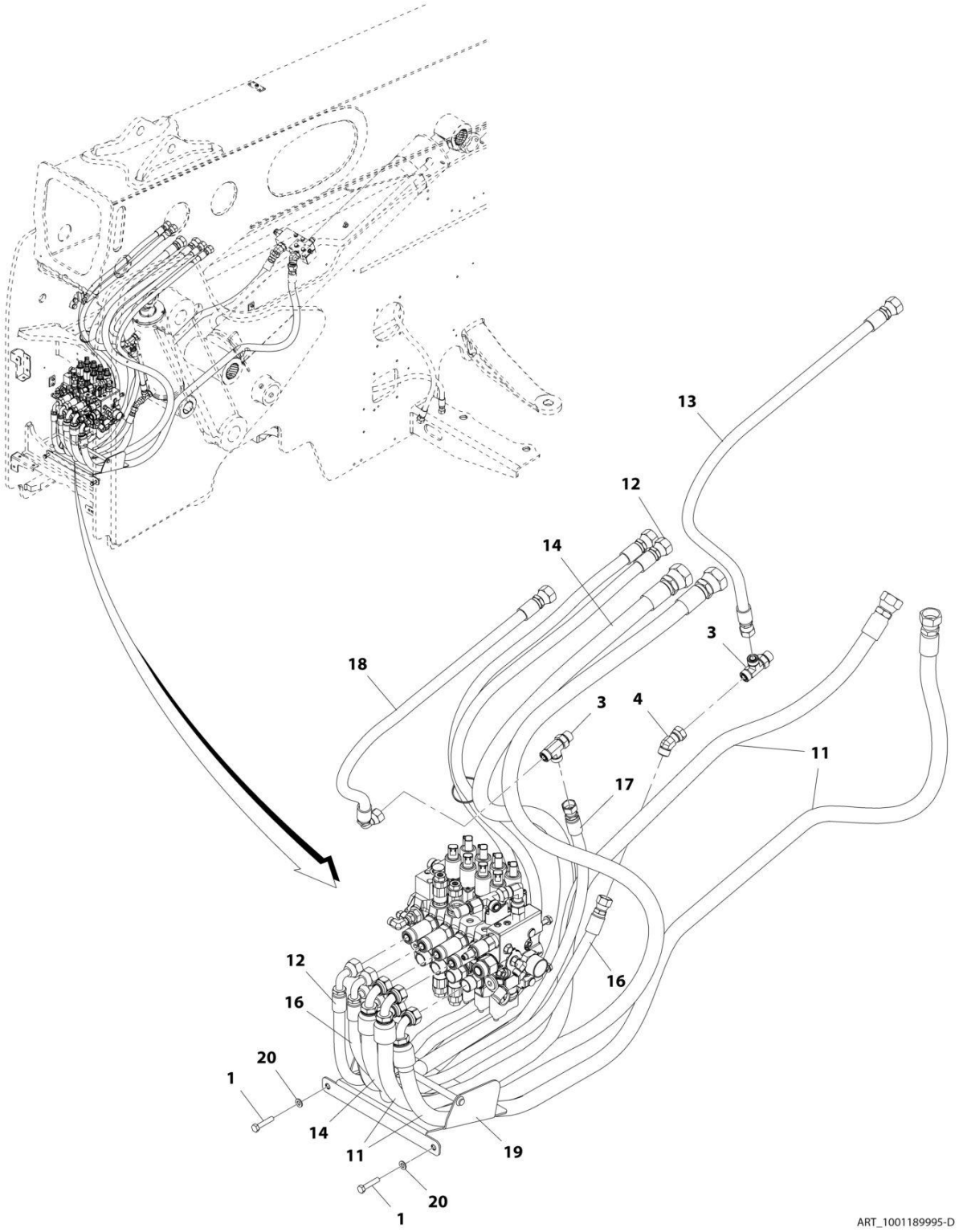


FIGURE 8-1. BOOM HYDRAULIC INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189995	Ref	Boom Hydraulic Installation	D
1	0700816	2	Bolt, M8X40	
3	2170308	2	Fitting, Tee ORFS	
4	2221231	1	Fitting, 45 ORFS	
11	1001169375	2	Hose	
12	1001169378	2	Hose	
13	1001203963	1	Hose	
14	1001169376	2	Hose	
16	1001203944	1	Hose	
17	1001203954	1	Hose	
18	1001203967	1	Hose	
19	1001193771	1	Channel, Boom Hose	
20	4811900	2	Washer, M8	

FIGURE 8-2. BOOM HYDRAULIC TUBES INSTALLATION

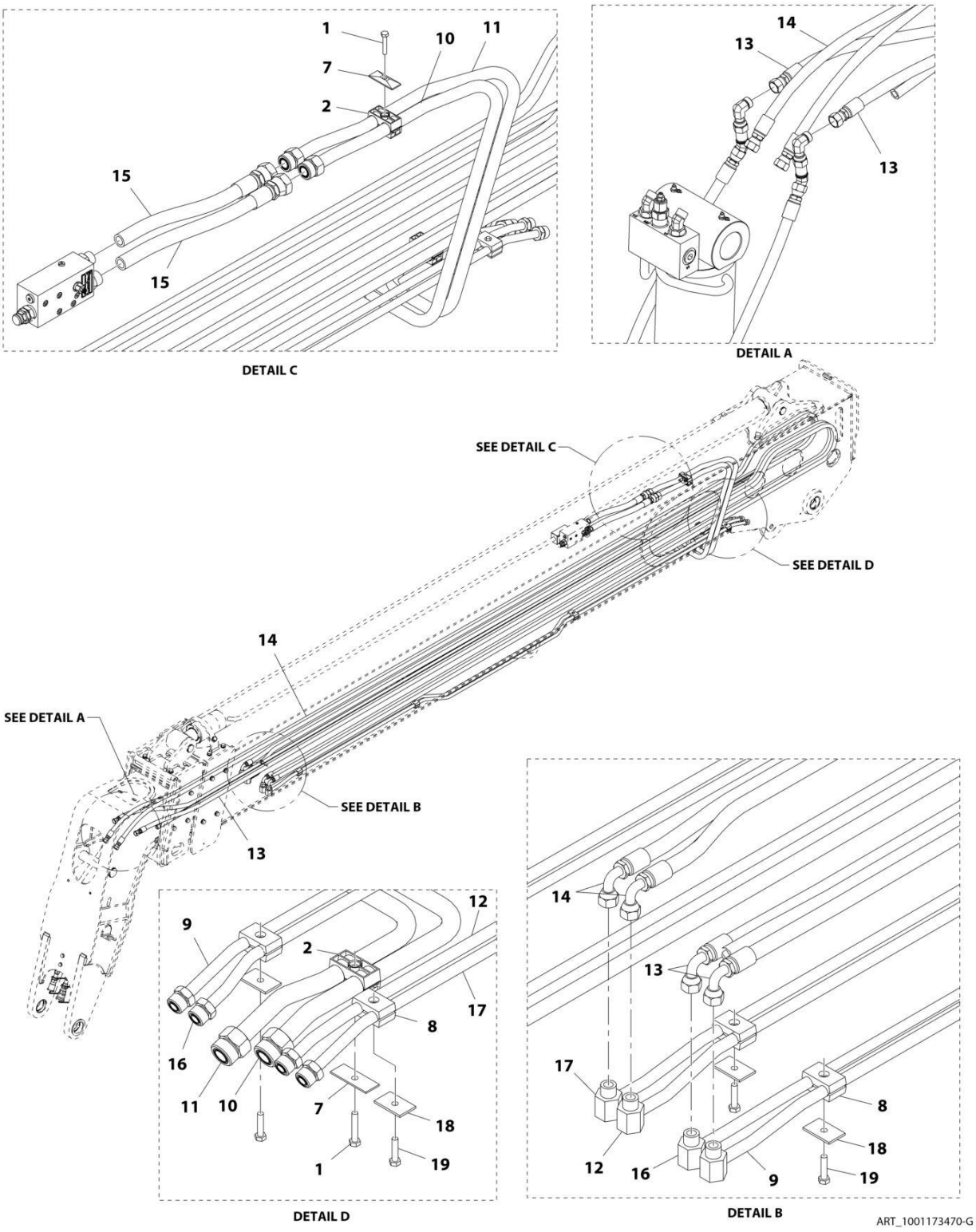


FIGURE 8-2. BOOM HYDRAULIC TUBES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173470	Ref	Boom Hydraulic Tubes Installation	G
1	0700817	2	Bolt, M8X45	
2	1321329	2	Clamp	
7	77133137	2	Plate, Cover	
8	77133139	8	Clamp	
9	1001162339	1	Tube	
10	1001162343	1	Tube	
11	1001162344	1	Tube	
12	1001162346	1	Tube	
13	1001163072	1	Hose	
14	1001163073	1	Hose	
15	1001170549	2	Hose	
16	1001173956	1	Tube	
17	1001173957	1	Tube	
18	77133140	8	Plate, Cover	
19	0760815	8	Bolt, M8X35	

FIGURE 8-3. BOOM AUXILIARY HYDRAULICS INSTALLATION

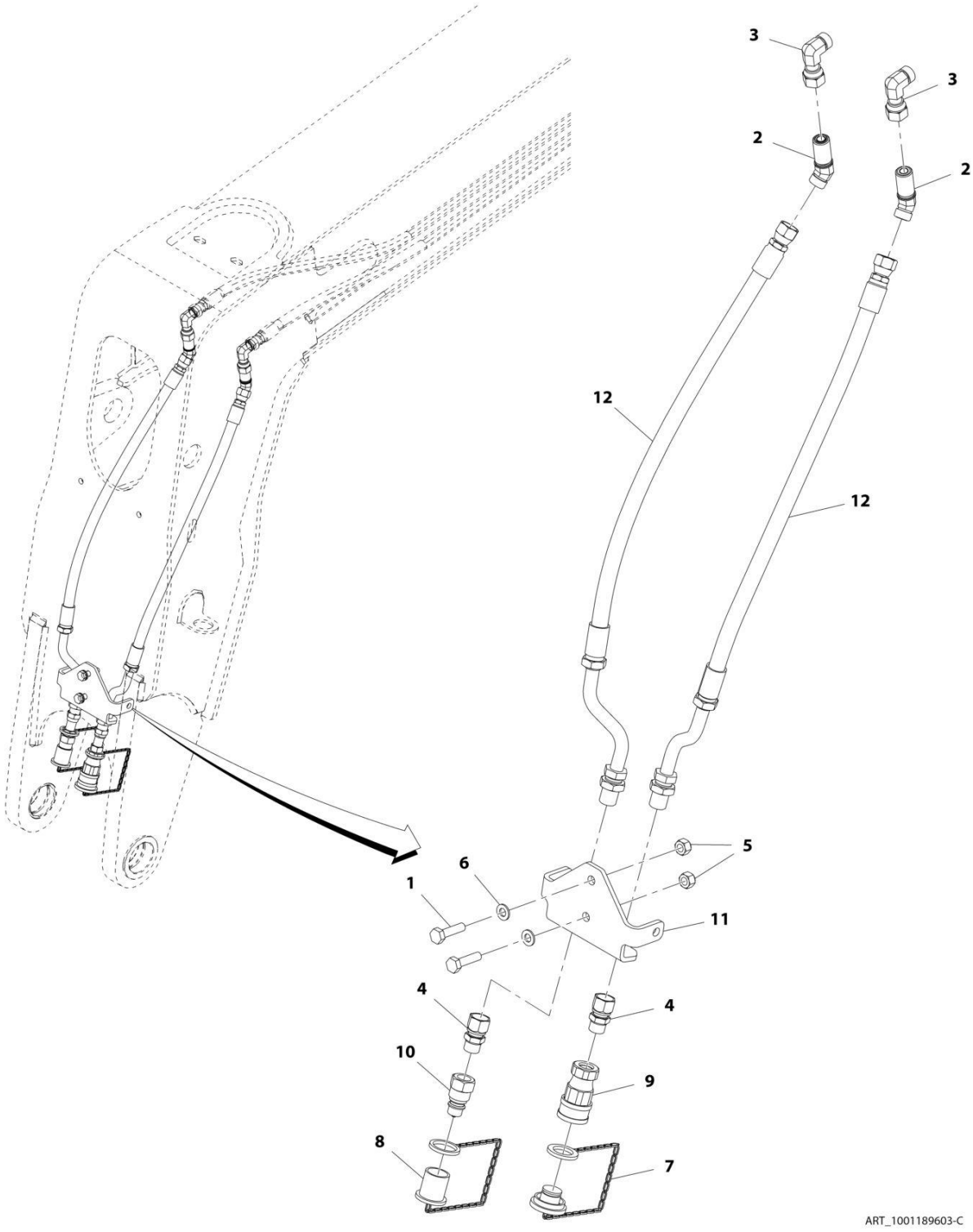


FIGURE 8-3. BOOM AUXILIARY HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189603	Ref	Boom Auxiliary Hydraulics Installation (642,742)	C
1	0701016	2	Bolt, M10X40	
2	2171308	2	Fitting, 45 ORFS	
3	2172108	2	Fitting, 90 ORFS	
4	1001210775	2	Fitting, Straight	
5	3291005	2	Bolt, M10X1.5	
6	4812000	2	Washer, M10	
7	91043125	1	Plug	
8	91043126	1	Cap	
9	91403413	1	Fitting, Straight	
10	91403414	1	Fitting, Straight	
11	1001164948	1	Bracket	
12	1001189217	2	Hose	

FIGURE 8-4. BOOM AUXILIARY HYDRAULICS COUPLER INSTALLATION

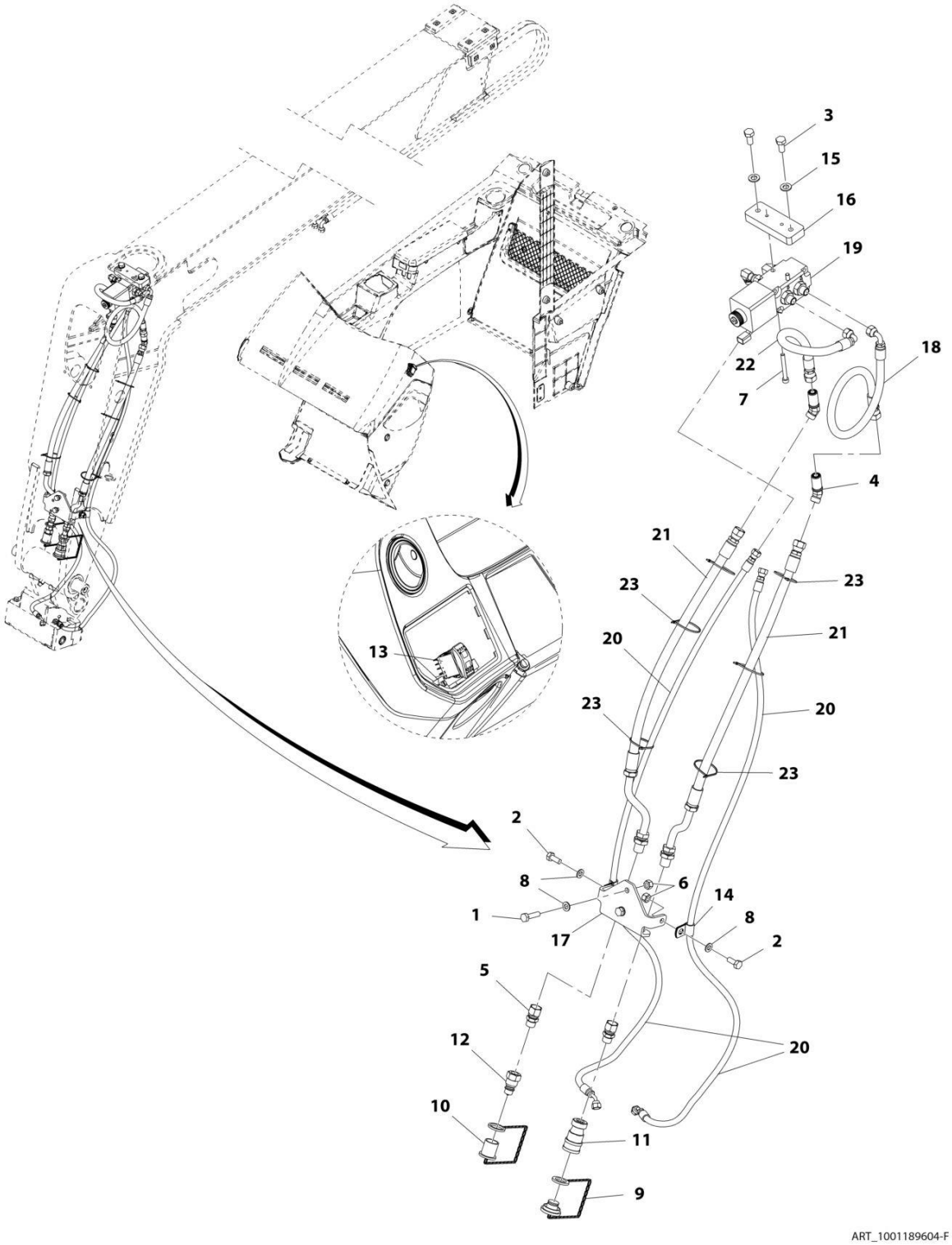


FIGURE 8-4. BOOM AUXILIARY HYDRAULICS COUPLER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001189604	Ref	Boom Auxiliary Hydraulics (Hydraulic Coupler) (642,742)	F
1	0701016	2	Bolt, M10X40	
2	0761012	2	Bolt, M10X25	
3	0761212	2	Bolt, M12X25	
4	2171308	2	Fitting, 45 ORFS	
5	1001210775	2	Fitting, Straight	
6	3291005	4	Nut, Lock M10X1.5	
7	4031918	2	Bolt, M8X70	
8	4812000	4	Washer, M10	
9	91043125	1	Plug	
10	91043126	1	Cap	
11	91403413	1	Fitting, Straight	
12	91403414	1	Fitting, Straight	
13	1001080375	1	Switch, Quick Coupler	
14	1001080996	2	Clamp	
15	1001125117	2	Washer, M12	
16	1001164870	1	Plate, Valve Attachment	
17	1001164948	1	Bracket	
18	1001189308	1	Hose	
19	1001197182	1	Assembly, Valve Quick Coupler (See Separate Breakdown in this Section)	
20	1001210348	2	Hose	
21	1001189217	2	Hose	
22	1001189299	1	Hose	
23	4240099	6	Strap, Tie	

FIGURE 8-5. BOOM ANGLE SENSOR INSTALLATION

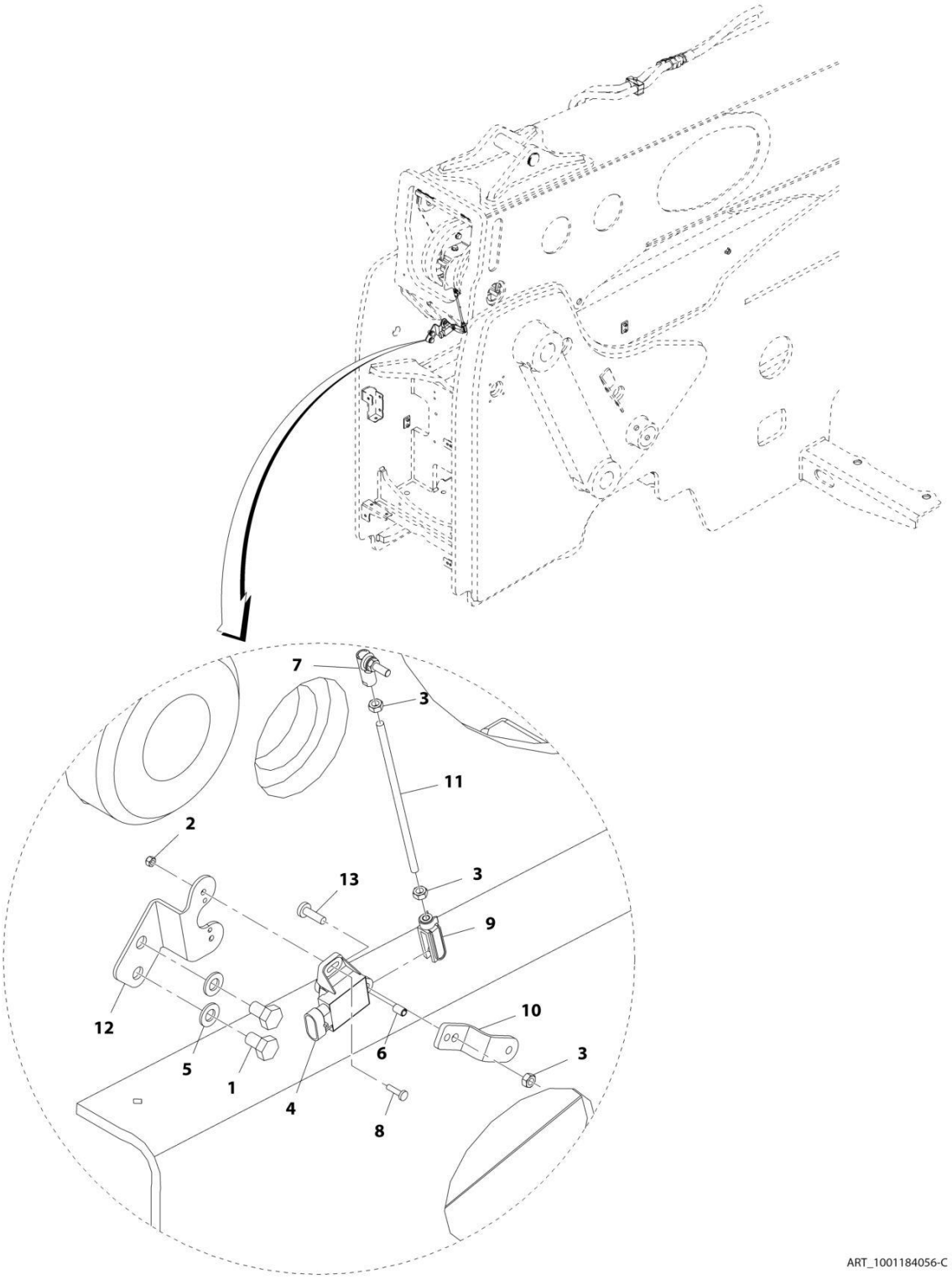


FIGURE 8-5. BOOM ANGLE SENSOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001184056	Ref	Boom Angle Sensor Installation	C
1	0761008	2	Bolt, M10X16	
2	3290405	2	Nut, Lock M4X0.7	
3	3290601	3	Nut, M6X1	
4	4000015	1	Sensor, Angle	
5	4812000	2	Washer, M10	
6	1001103156	1	Pin	
7	1001184484	1	Joint, Ball	
8	1001126837	2	Screw, M4X16	
9	1001134274	1	Clevis	
10	1001188787	1	Link, Boom Angle Sensor	
11	1001168482	1	Rod	
12	1001211059	1	Bracket, Boom Angle Sensor	
13	4010610002	1	Screw, M6X20	

FIGURE 8-6. COUNTERBALANCE VALVE INSTALLATION (LIFT- RIDE CONTROL)

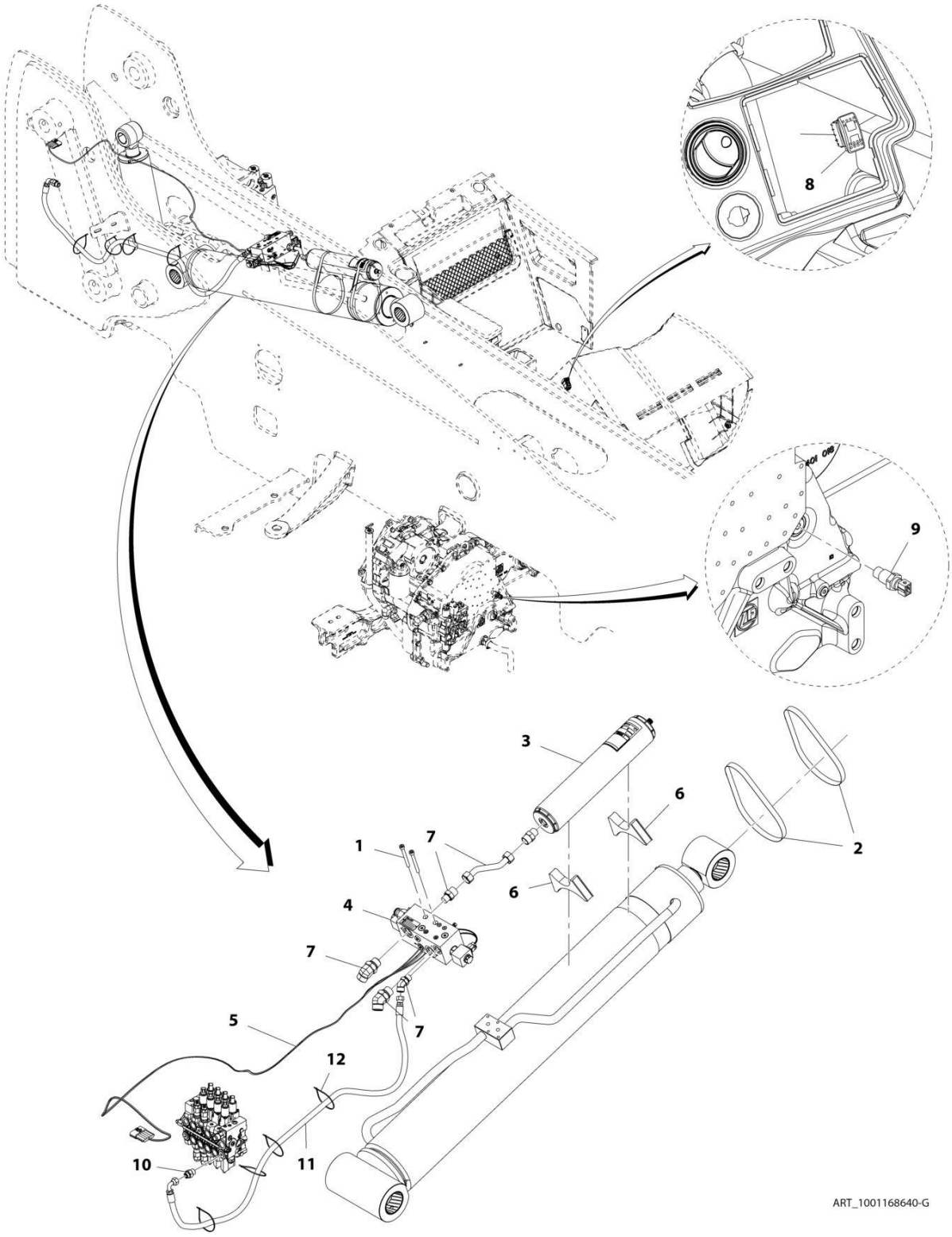


FIGURE 8-6. COUNTERBALANCE VALVE INSTALLATION (LIFT- RIDE CONTROL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168640	Ref	Counterbalance Valve Installation (Lift - Ride Control) (642)	G
1	4031920	4	Screw, M8X1.25	
2	1001095396	2	Clamp	
3	1001192435	1	Cylinder, Piston	
4	1001207286	1	Valve, Ride Control	
5	1001175676	Ref	Installation, Ride Control CB Valve Harness (Lift) (See ELECTRICAL SECTION for Breakdown)	
6	1001175740	2	Bumper, Cylinder Saddle	
7	1001207688	Ref	Lines, Counterbalance Valve (Lift - Ride Control) (See COUNTERBALANCE HYDRAULIC LINES (Lift - Ride VALVE Control) for Breakdown)	
8	1001159745	1	Switch, Boom Ride	
9	1001190881	1	Sensor, Speed	
10	2110810	1	Fitting, Straight	
11	1001207283	1	Hose	
12	4240099	AR	Wire, Tie	

FIGURE 8-7. COUNTERBALANCE VALVE HYDRAULIC LINES (LIFT-RIDE CONTROL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001207688	Ref	Counterbalance Valve Hydraulic Lines (Lift - Ride Control) (642)	A
1	2111008	1	Fitting, Straight ORFS	
2	2111010	1	Fitting, Straight ORFS	
3	2151212	2	Fitting, 45 ORFS	
4	1001175745	1	Pipe	
5	2150808	1	Fitting, 45 ORFS	

FIGURE 8-8. COUNTERBALANCE VALVE INSTALLATION (LIFT - NO RIDE CONTROL)

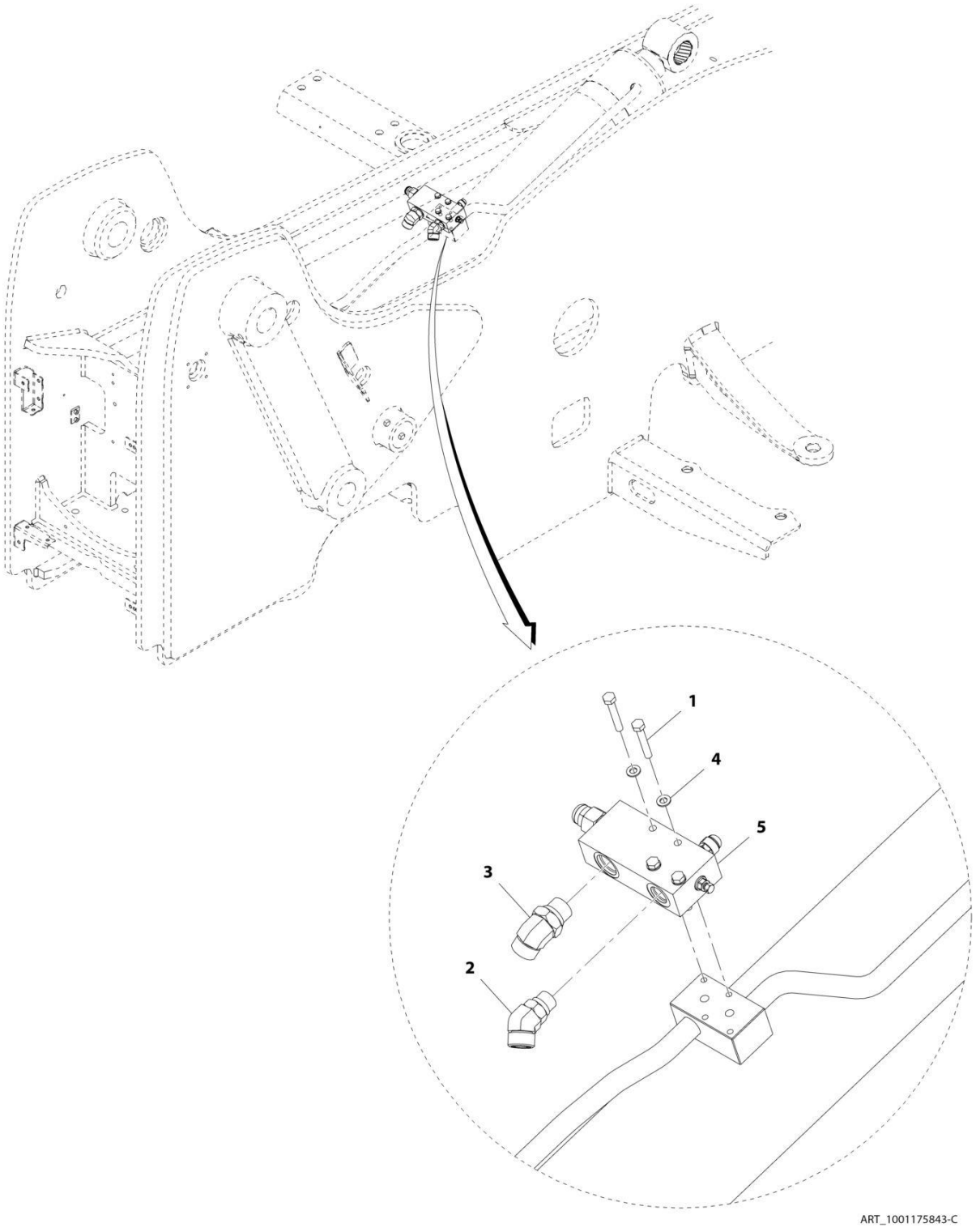


FIGURE 8-8. COUNTERBALANCE VALVE INSTALLATION (LIFT - NO RIDE CONTROL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175843	Ref	Counterbalance Valve Installation (Lift - No Ride Control)	C
1	0700818	4	Bolt, M8X50	
2	2151210	1	Fitting, 45 ORFS	
3	2151212	1	Fitting, 45 ORFS	
4	4811900	4	Washer, M8	
5	1001168597	1	Valve, Counterbalance	

FIGURE 8-9. CAB HYDRAULIC INSTALLATION EMERGENCY STEERING

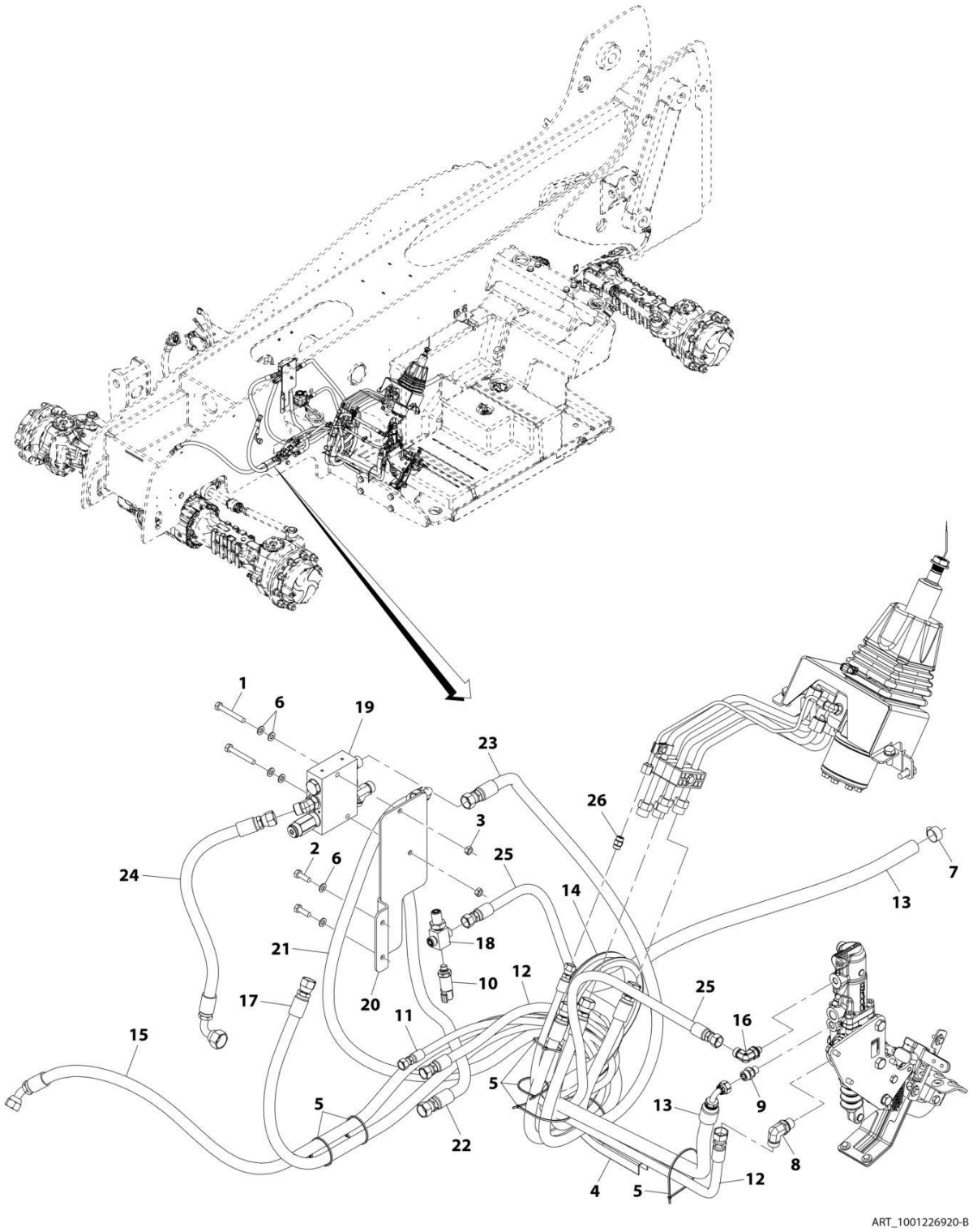


FIGURE 8-9. CAB HYDRAULIC INSTALLATION EMERGENCY STEERING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001226920	Ref	Cab Hydraulic Installation Emergency Steering	B
1	0700820	2	Bolt, M8X60	
2	0760812	2	Bolt, M8X25	
3	3290801	2	Nut, M8X1.25	
4	4060919	230 mm	Trim, Hose Protection	
5	4240099	AR	Tie, Wire	
6	4811900	6	Washer, M8	
7	8405006	1	Clamp, Gear	
8	8770120	1	Fitting, 90 ORFS	
9	80233218	1	Fitting, Straight ORFS	
10	1001147340	1	Sensor, Pressure Transducer	
11	1001161346	1	Hose	
12	1001161527	1	Hose	
13	1001161528	1	Hose	
14	1001169830	1	Grommet	
15	1001177256	1	Hose	
16	1001202962	1	Fitting, 90 ORFS	
17	1001204152	1	Hose	
18	1001205756	1	Adapter	
19	1001219191	1	Installation, Emergency Steering Manifold (See Separate Breakdown in this Section)	
20	1001221520	1	Bracket	
21	1001221527	1	Hose	
22	1001221741	1	Hose	
23	1001221742	1	Hose	
24	1001221744	1	Hose	
25	1001222088	1	Hose	
26	1001143857	1	Fitting, Straight ORFS	

FIGURE 8-10. CAB HYDRAULIC INSTALLATION (NO OUTRIGGERS)

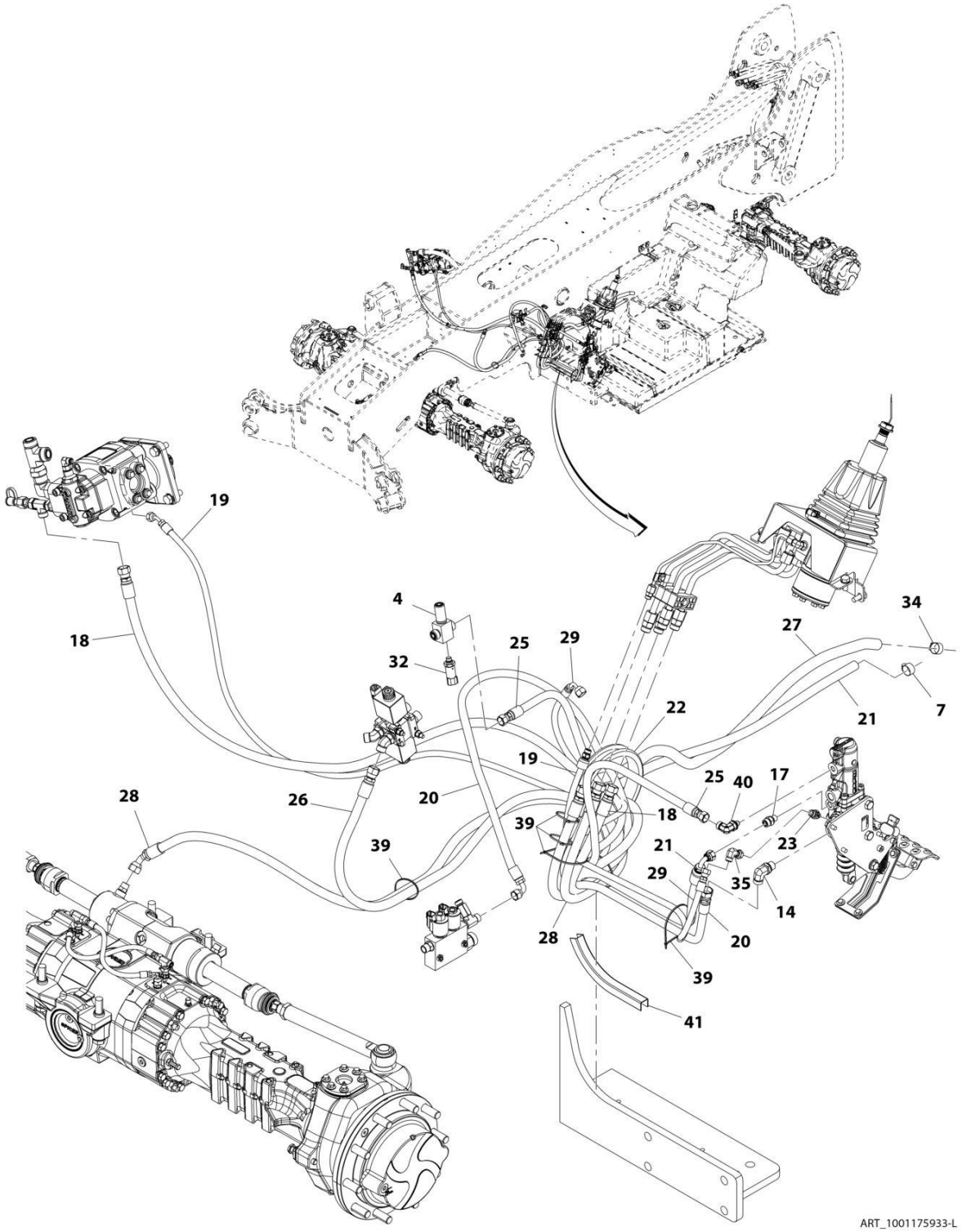


FIGURE 8-10. CAB HYDRAULIC INSTALLATION (NO OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175933	Ref	Cab Hydraulic Installation	L
4	1001205756	1	Fitting, Tee	
7	8405006	1	Clamp, Gear	
14	8770120	1	Fitting, 90 ORFS	
17	80233218	1	Fitting, Straight ORFS	
18	1001188438	1	Hose	
19	1001209710	1	Hose	
20	1001186912	1	Hose	
21	1001161528	1	Hose	
22	1001169830	1	Grommet	
23	1001184418	1	Valve, Check	
25	1001222088	1	Hose	
26	1001204152	1	Hose	
27	1001187850	1	Hose	
28	1001177256	1	Hose	
29	1001175934	1	Hose	
32	1001147340	1	Sensor, Pressure Transducer	
34	8410009	1	Clamp, Gear	
35	2172104	1	Fitting, 90 ORFS	
39	4240099	AR	Strap, Tie	
40	1001202962	1	Fitting, 90 ORFS	
41	4060919	230 mm	Trim, Hose Protection	

FIGURE 8-11. CAB HYDRAULIC INSTALLATION (OUTRIGGERS)

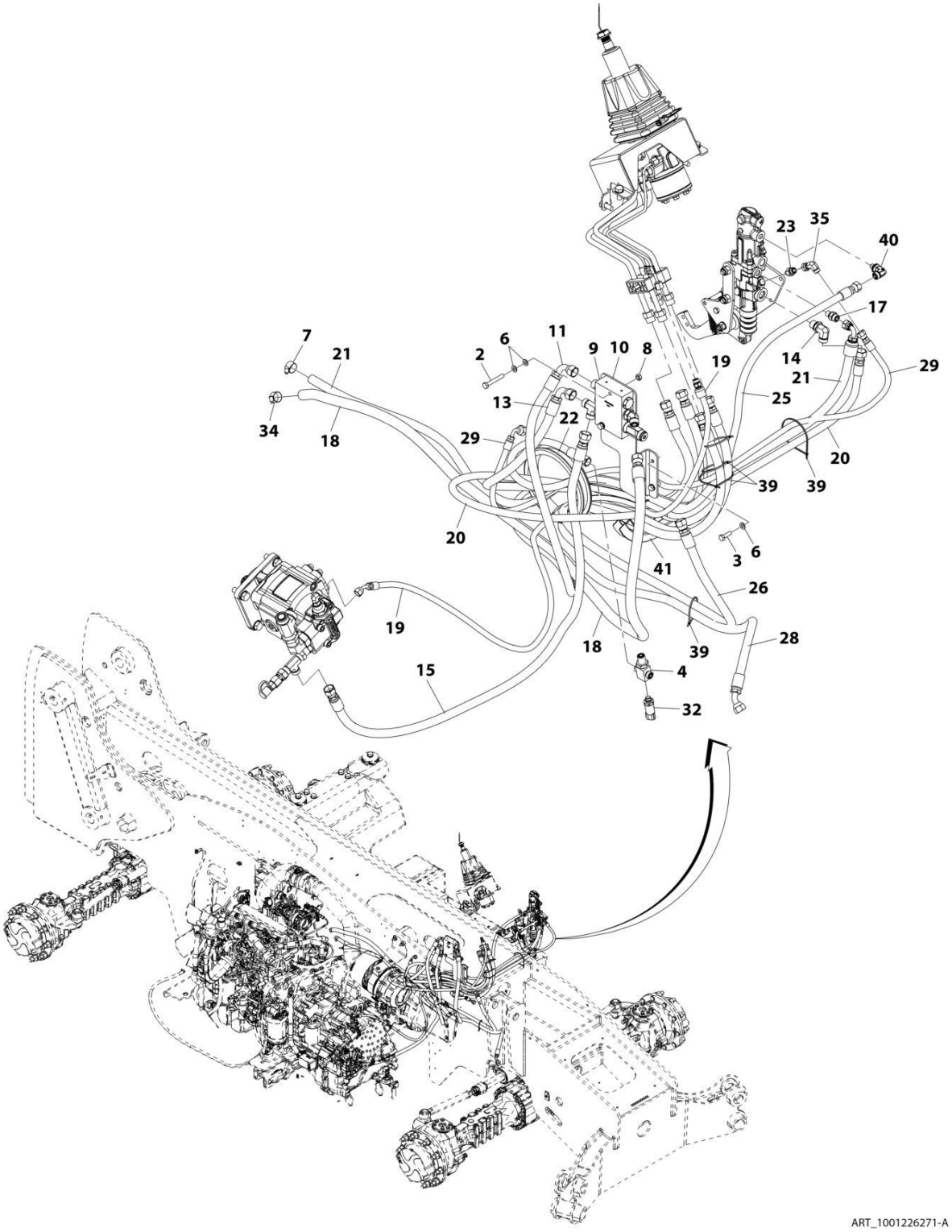
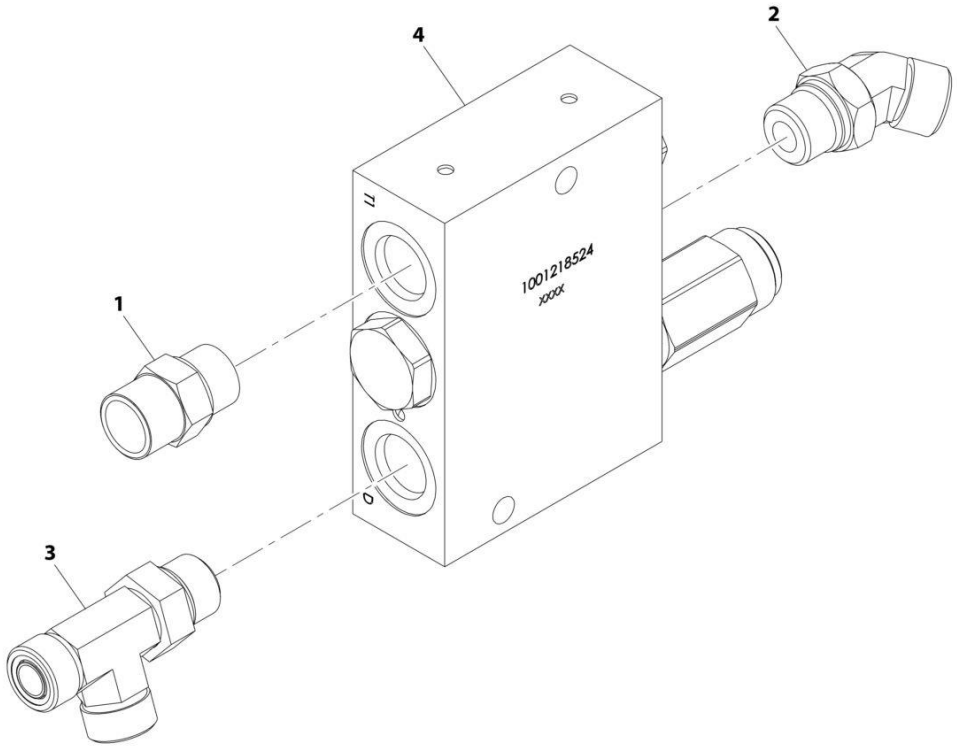


FIGURE 8-11. CAB HYDRAULIC INSTALLATION (OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001226271	Ref	Cab Hydraulic Installation (Emergency Steering)	A
2	0700819	2	Bolt, M8X55	
3	0760812	2	Bolt, M8X25	
4	1001205756	1	Adapter	
6	4811900	6	Washer, M8	
7	8405006	1	Clamp, Gear	
8	3290801	2	Nut, M8X1.25	
9	1001219191	1	Install, Emergency Steering Manifold (See Separate Breakdown in this Section)	
10	1001221520	1	Bracket	
11	1001221527	1	Hose	
13	1001222090	1	Hose	
14	8770120	1	Fitting, 90 ORFS	
15	1001222132	1	Hose	
17	80233218	1	Fitting, Straight ORFS	
18	1001222158	1	Hose	
19	1001209710	1	Hose	
20	1001186912	1	Hose	
21	1001161528	1	Hose	
22	1001169830	1	Grommet	
23	1001184418	1	Valve, Check	
25	1001222088	1	Hose	
26	1001204152	1	Hose	
28	1001177256	1	Hose	
29	1001175934	1	Hose	
32	1001147340	1	Sensor, Pressure Transducer	
34	8410009	1	Gear Clamp	
35	2172104	1	Fitting, 90 ORFS	
39	4240099	AR	Tie, Wire	
40	1001202962	1	Fitting, 90 ORFS	
41	4060919	230 mm	Trim, Hose Protection	

FIGURE 8-12. EMERGENCY STEERING MANIFOLD



ART_1001219191-A

FIGURE 8-12. EMERGENCY STEERING MANIFOLD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219191	Ref	Emergency Steering Manifold	A
1	2110808	1	Fitting, Straight ORFS	
2	2150808	1	Fitting, 45 ORFS	
3	2170308	1	Fitting, Tee ORFS	
4	1001218524	1	Manifold	

FIGURE 8-13. FRAME LEVEL INSTALLATION

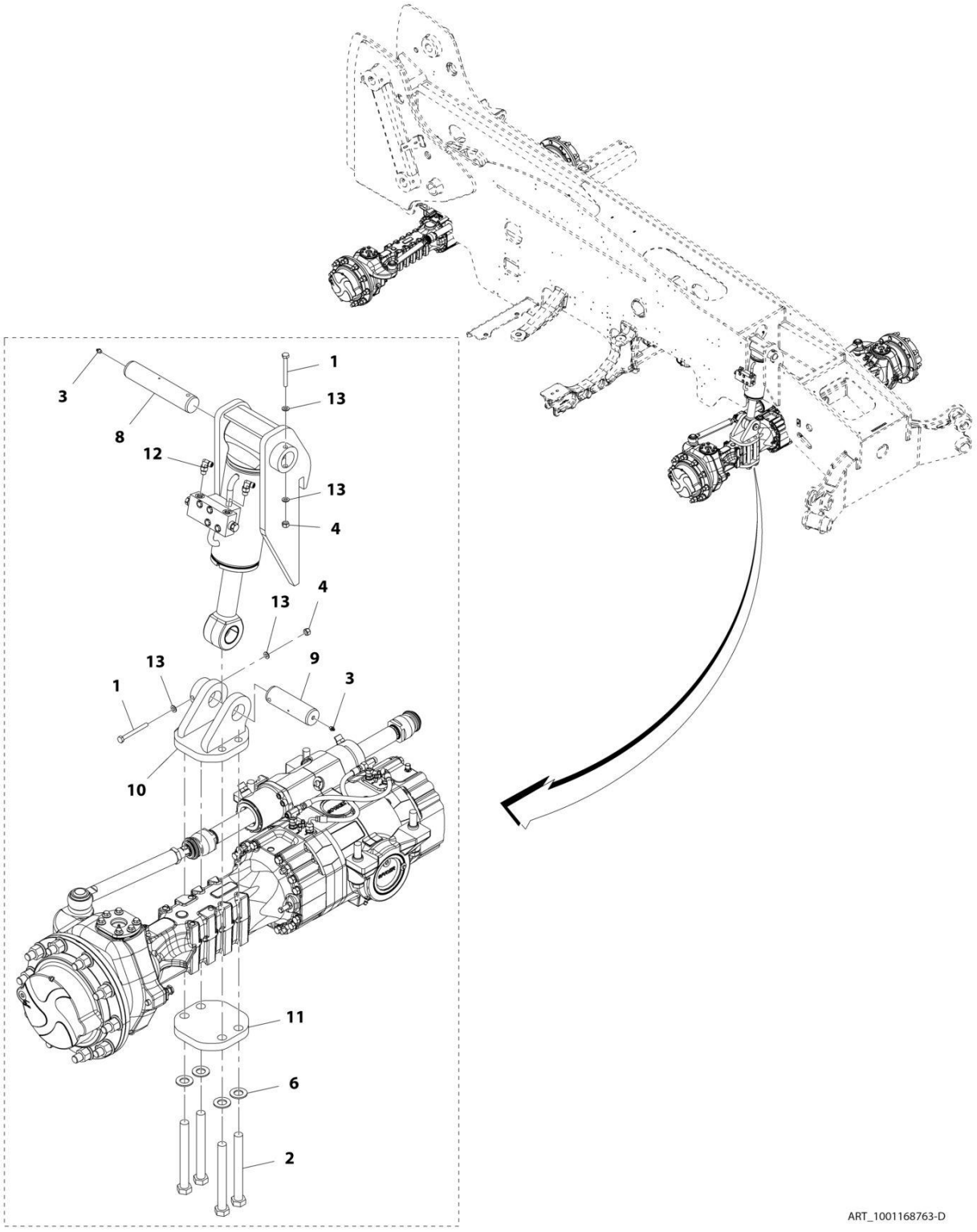


FIGURE 8-13. FRAME LEVEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168763	Ref	Frame Level Installation	D
1	0711027	2	Bolt, M10X100	
2	0712439	4	Bolt, M24X220	
3	2160016	2	Fitting, Grease	
4	3291005	2	Nut, Lock M10X1.5	
6	5242400	4	Washer, M24	
8	1001164971	1	Pin	
9	1001164972	1	Pin	
10	1001182545	1	Bracket	
11	1001182908	1	Plate	
12	2130406	2	Fitting, 90 ORFS	
13	4812000	4	Washer, M10	

FIGURE 8-14. FRAME LEVEL HYDRAULICS INSTALLATION (NO OUTRIGGERS)

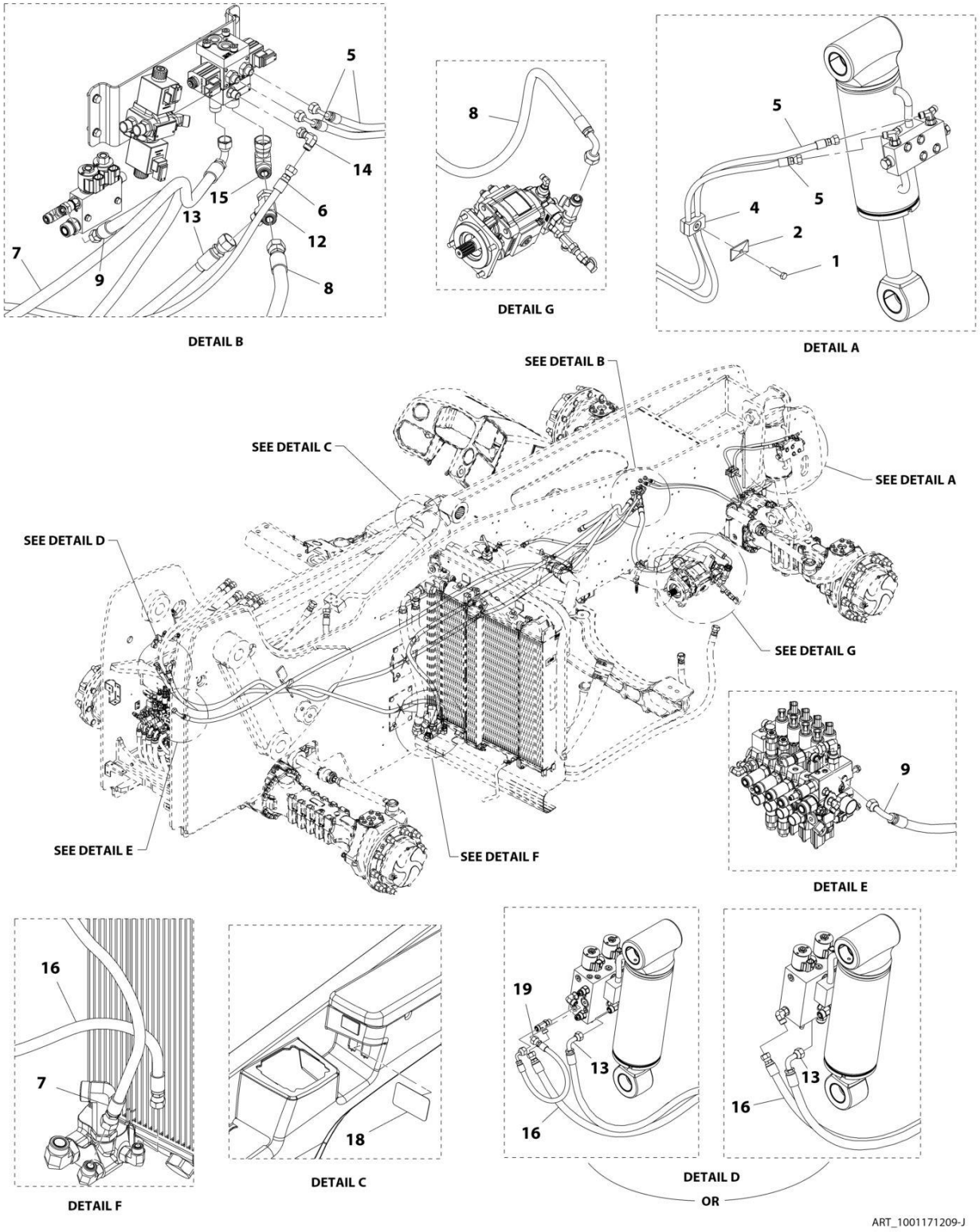


FIGURE 8-14. FRAME LEVEL HYDRAULICS INSTALLATION (NO OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171209	Ref	Frame Level Hydraulics Installation (No Outriggers)	K
1	0760815	1	Bolt, M8X35	
2	1321752	1	Clamp	
4	77133168	1	Clamp	
5	1001162069	2	Hose	
6	1001176145	1	Hose	
7	1001175704	1	Hose	
8	1001176150	1	Hose	
9	1001188281	1	Hose	
12	2170710	1	Fitting, Tee ORFS	
13	1001185357	1	Hose	
14	2172104	1	Fitting, 90 ORFS	
15	2172110	1	Fitting, 90 ORFS	
16	1001192042	1	Hose	
18	1670836	1	Cover, Boom	
19	1001097810	AR	Hose	

FIGURE 8-15. FRAME LEVEL HYDRAULICS INSTALLATION (OUTRIGGERS)

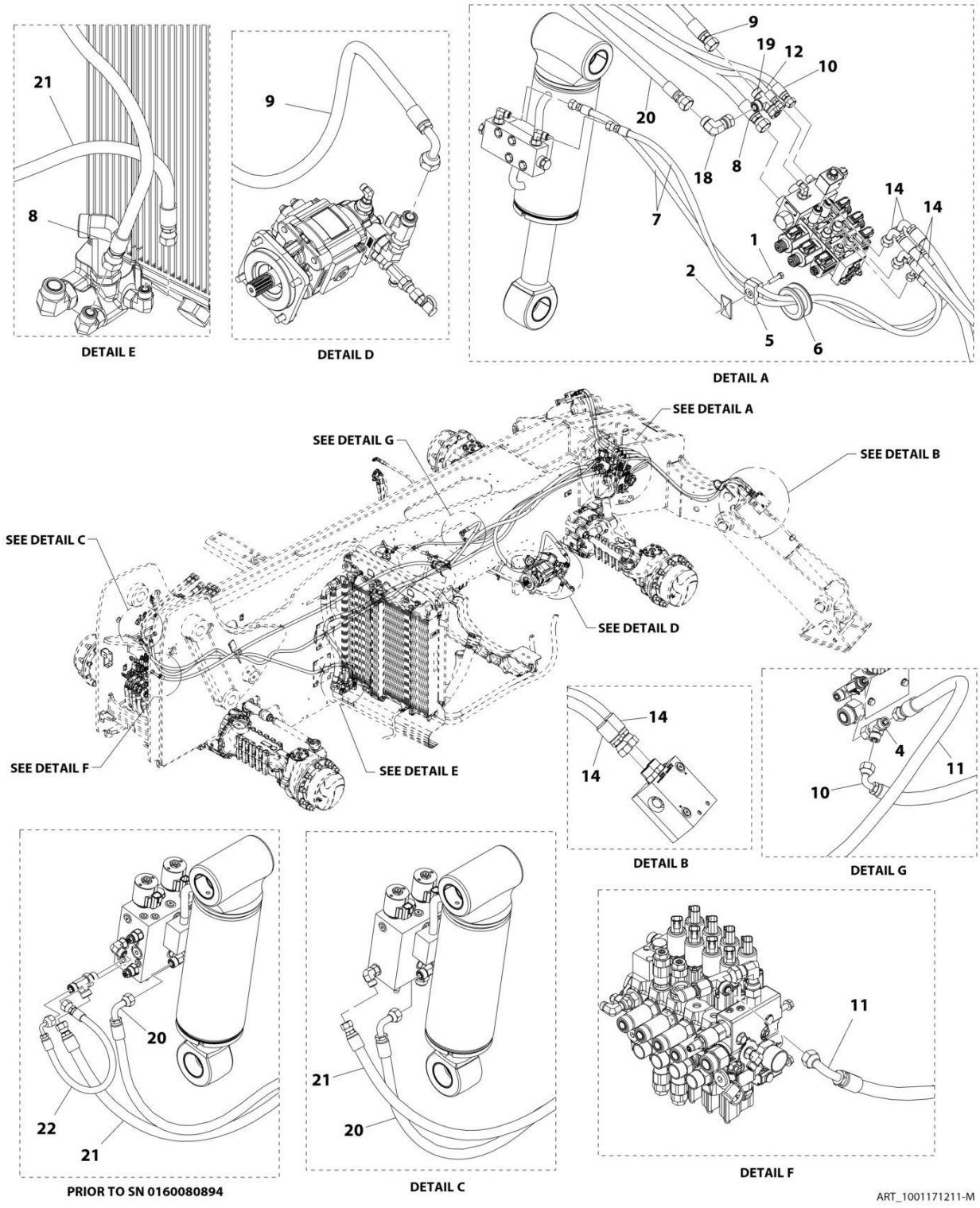


FIGURE 8-15. FRAME LEVEL HYDRAULICS INSTALLATION (OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171211	Ref	Frame Level Hydraulics Installation (Outriggers) (642,642)	M
1	0760815	1	Bolt, M8X35	
2	1321752	1	Clamp	
4	2170706	1	Fitting, Tee ORFS	
5	77133168	1	Clamp	
6	1001028308	1	Grommet	
7	1001175570	2	Hose	
8	1001175814	1	Hose	
9	1001176165	1	Hose	
10	1001176167	1	Hose	
11	1001188281	1	Hose	
12	1001176169	1	Hose	
14	1001200080	4	Hose **(Prior to SN 0160078786)**	
14	1001214468	4	Hose **(SN 0160078786 to Present)**	
18	2172110	1	Fitting, 90 ORFS	
19	2170710	1	Fitting, Tee ORFS	
20	1001185470	1	Hose	
21	1001192042	1	Hose	
22	1001097810	1	Hose **(Prior to SN 0160080894)**	

FIGURE 8-16. FRAME LEVEL AND OUTRIGGER VALVE INSTALLATION

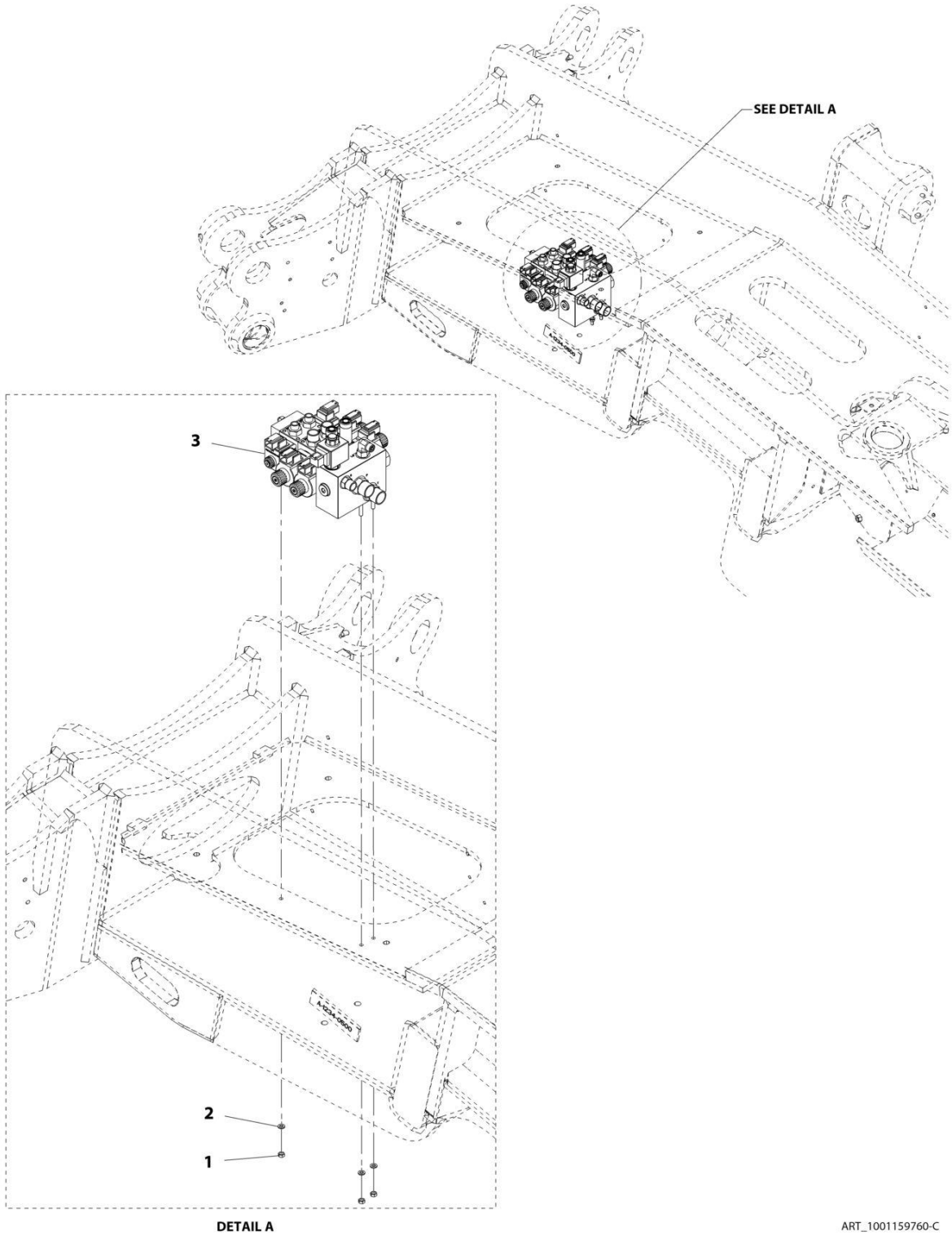


FIGURE 8-16. FRAME LEVEL AND OUTRIGGER VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159760	Ref	Frame Level and Outrigger Valve Installation	C
1	3290601	3	Nut, M6X1	
2	4811700	3	Washer, M6	
3	1001159847	1	Assembly, Frame Level and Outrigger Valve (See Separate Breakdown in this Section)	

FIGURE 8-17. FRAME LEVEL AND OUTRIGGER VALVE ASSEMBLY

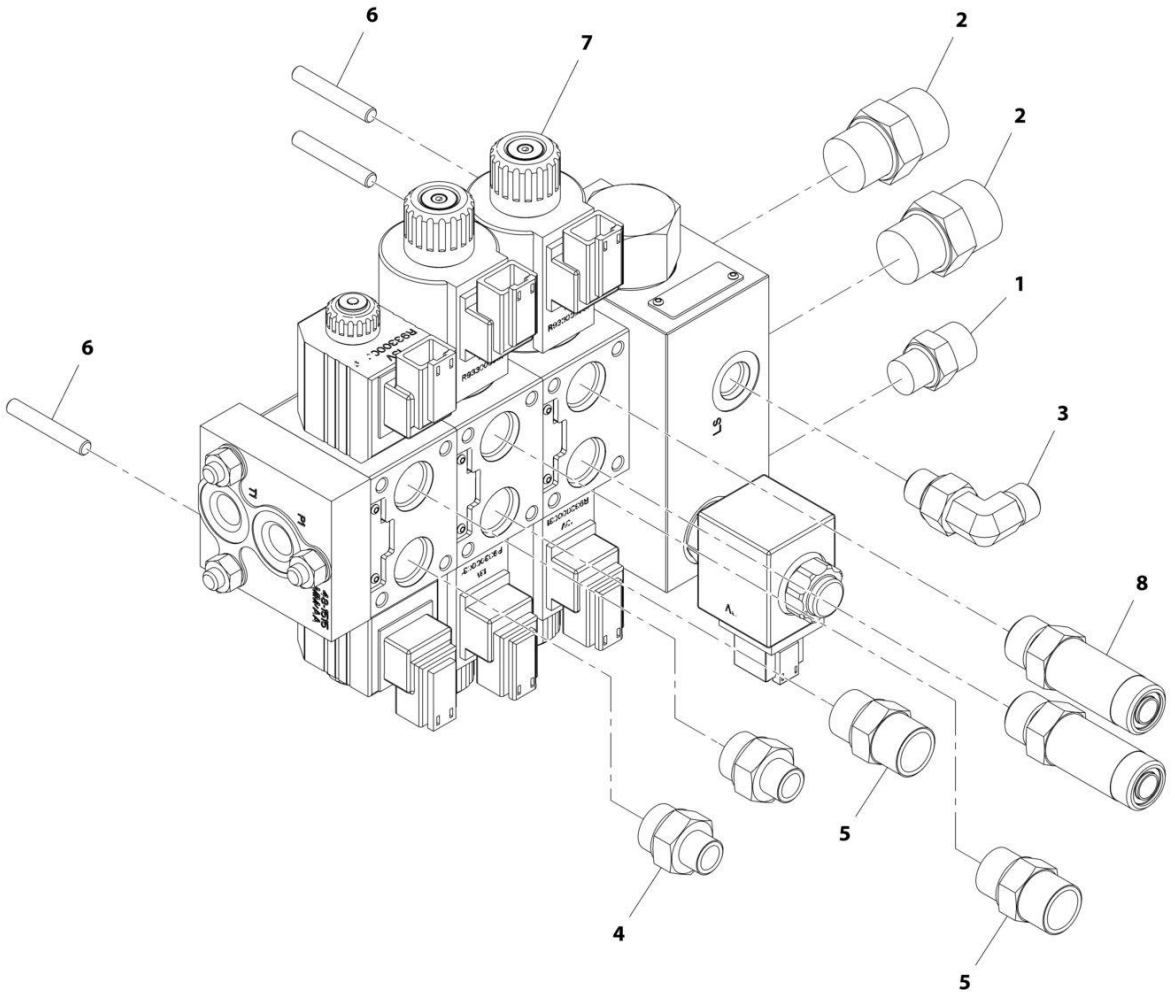


FIGURE 8-17. FRAME LEVEL AND OUTRIGGER VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159847	Ref	Frame Level and Outrigger Valve Assembly	E
1	2110606	1	Fitting, Straight	
2	2111010	2	Fitting, Straight ORFS	
3	2130406	1	Fitting, 90 ORFS	
4	2110408	2	Fitting, Straight ORFS	
5	2110808	2	Fitting, Straight ORFS	
6	1001177702	3	Stud, M6X40	
7	1001157972	1	Valve, Frame Level and Outrigger (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
8	2170108	2	Fitting	

FIGURE 8-18. FRAME LEVEL VALVE ASSEMBLY

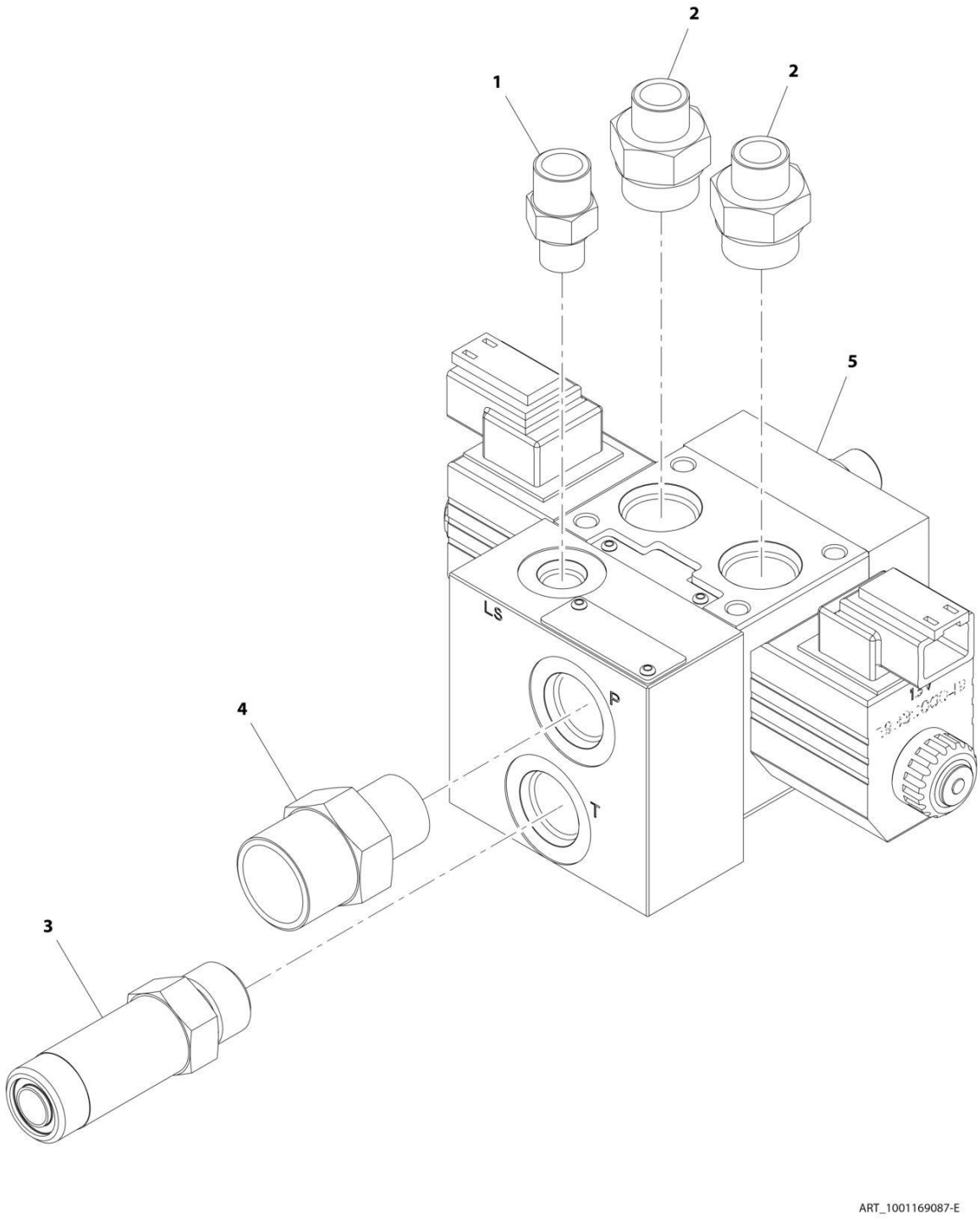


FIGURE 8-18. FRAME LEVEL VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169087	1	Frame Level Valve Assembly	E
1	2110404	1	Fitting, Straight ORFS	
2	2110408	2	Fitting, Straight ORFS	
3	2170108	1	Fitting, Straight ORFS	
4	2111008	1	Fitting, Straight ORFS	
5	1001162959	1	Valve, Frame Level (See Separate Breakdown in Hydraulic Components Section)	

FIGURE 8-19. HYDRAULIC QUICK COUPLER ASSEMBLY

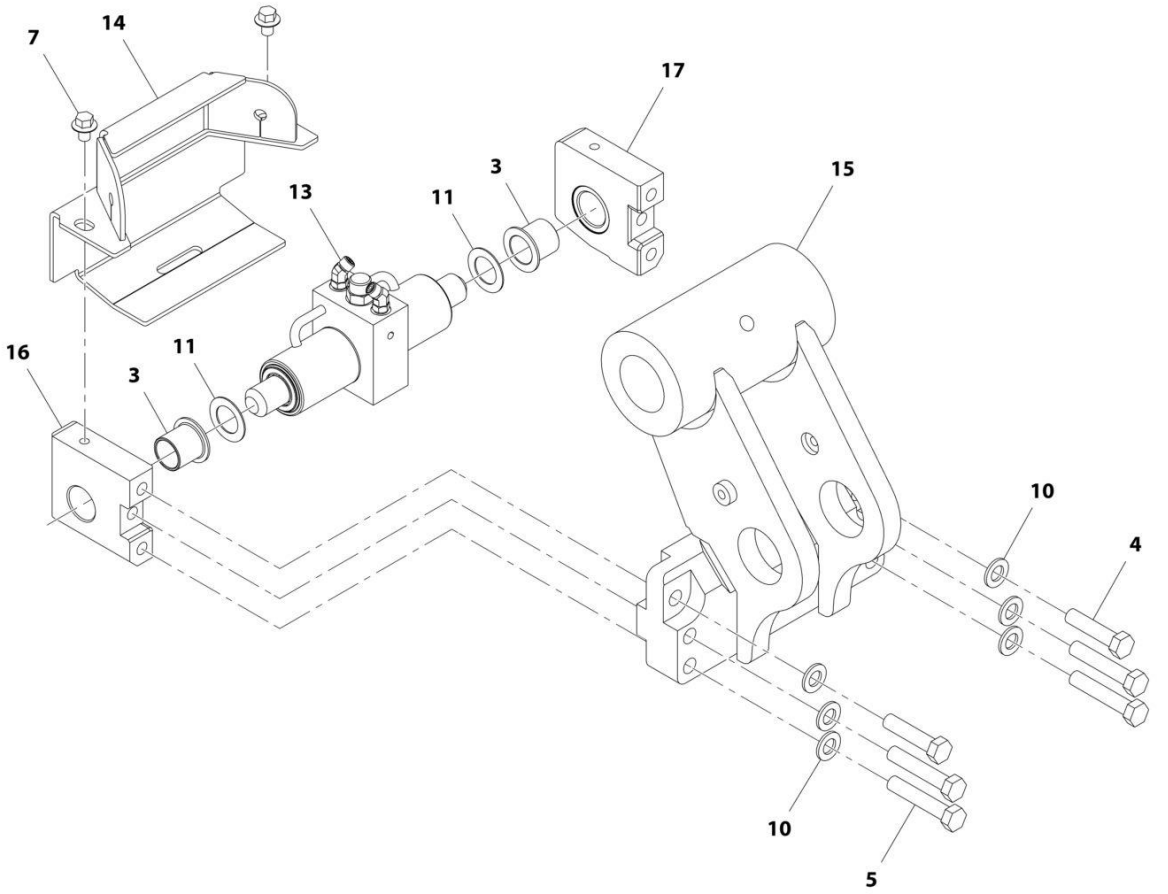


FIGURE 8-19. HYDRAULIC QUICK COUPLER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172134	Ref	Hydraulic Quick Coupler Assembly	E
3	0440321	2	Bearing, Flange 1.5 Length	
3	1001263046	2	Bearing, Flange 1.375 Length	
4	1001191503	2	Bolt, M16X1.5X17 GR10.9	
5	1001191505	4	Bolt, M16X1.5X85 GR10.9	
7	0781208	2	Bolt, M12X16	
10	5241600	6	Washer, M16	
11	91561240	AR	Shim	
13	1001210390	1	Assembly, Quick Coupler Cylinder (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
14	1001164860	1	Cover	
15	1001172075	1	Fitting, Straight	
16	1001172077	1	Plate	
17	1001172078	1	Plate	

FIGURE 8-20. MAIN HYDRAULIC INSTALLATION (NO OUTRIGGERS)

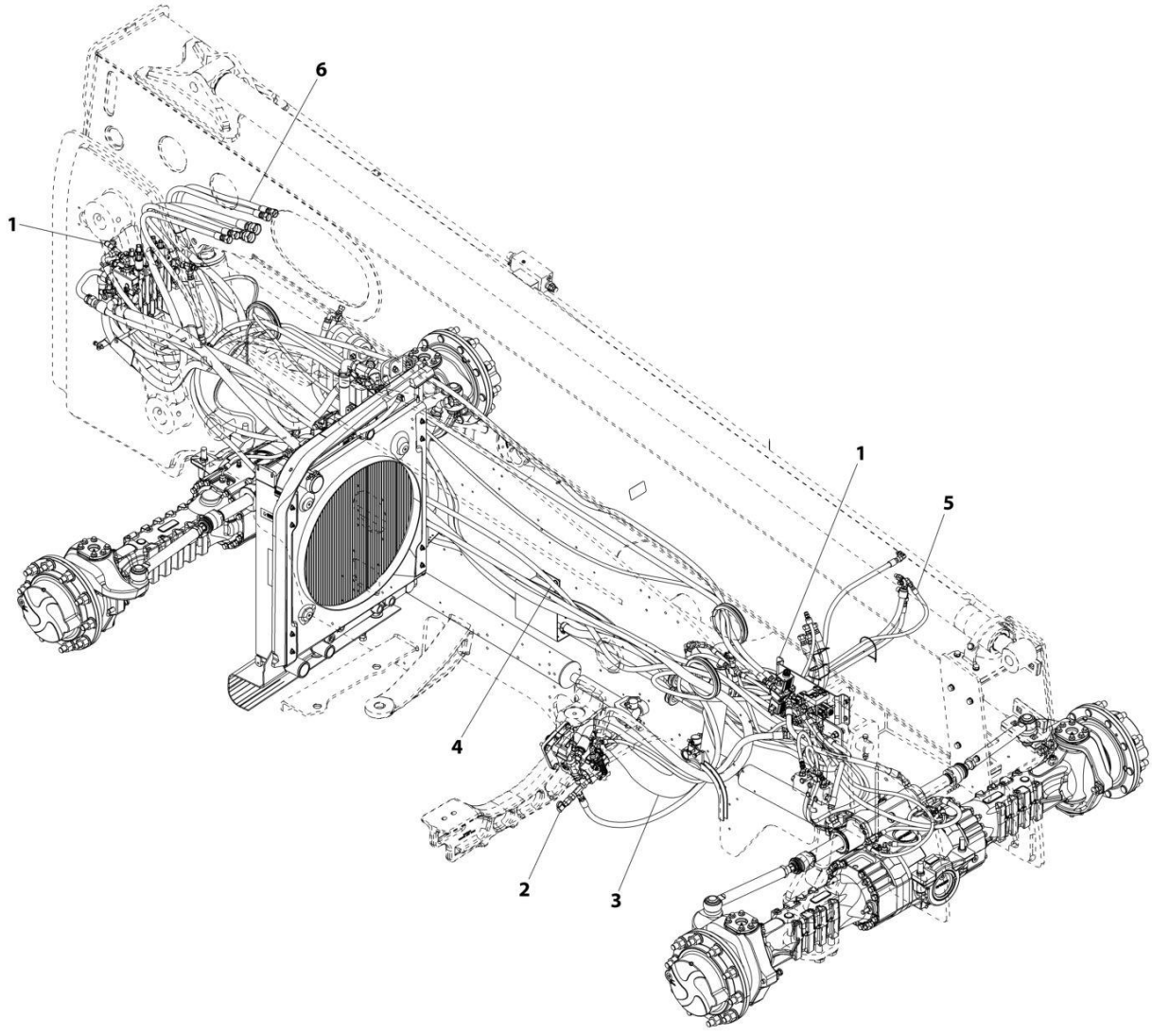


FIGURE 8-20. MAIN HYDRAULIC INSTALLATION (NO OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168430	Ref	Main Hydraulic Installation (No Outriggers)	C
1	1001169910	Ref	Installation, Valve (No Outriggers) (See Separate Breakdown in this Section)	
2	1001169915	Ref	Installation, Pump (See Separate Breakdown in this Section)	
3	1001171208	Ref	Installation, Hydraulic Lines (110HP) (See Separate Breakdown in this Section)	
4	1001171209	Ref	Installation, Frame Level Hydraulics (No Outriggers) (See Separate Breakdown in this Section)	
5	1001175933	Ref	Installation, Cab Hydraulic (See Separate Breakdown in this Section)	
6	1001189995	Ref	Installation, Boom Hydraulic (See Separate Breakdown in this Section)	

FIGURE 8-21. MAIN HYDRAULIC INSTALLATION (OUTRIGGERS)

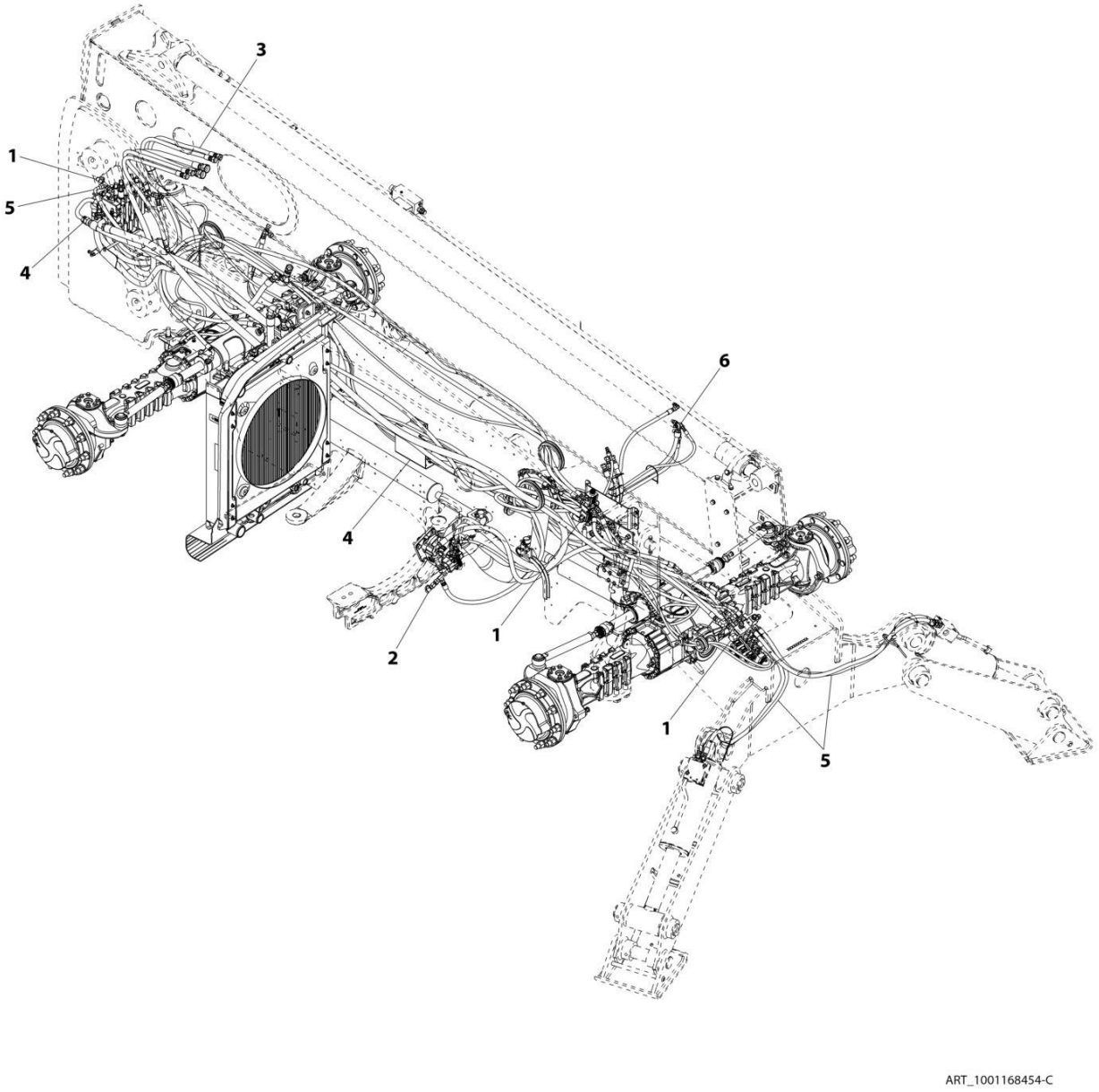
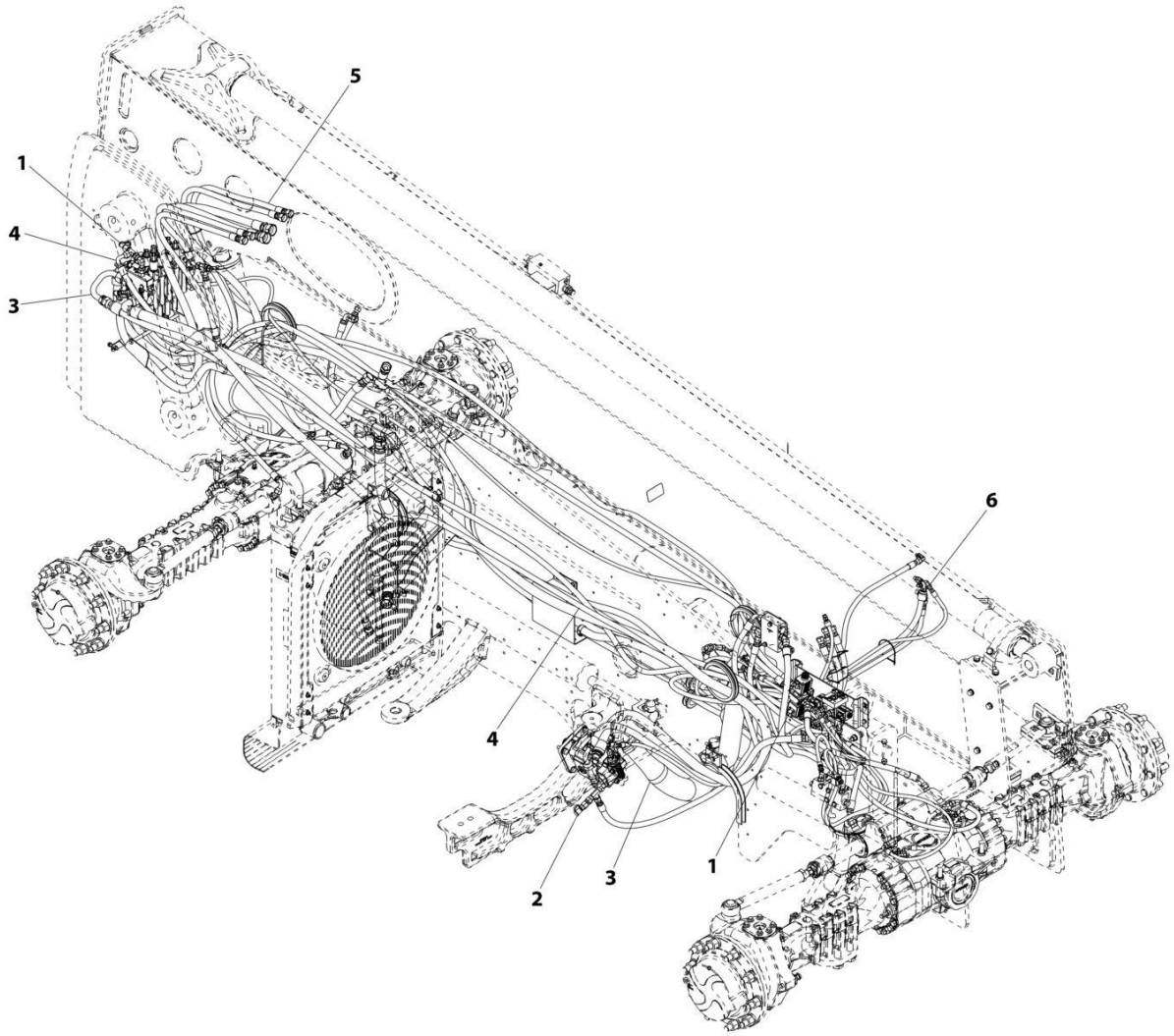


FIGURE 8-21. MAIN HYDRAULIC INSTALLATION (OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168454	Ref	Main Hydraulic Installation (Outriggers)	C
1	1001169912	Ref	Installation, Valve (Outriggers) (See Separate Breakdown in this Section)	
2	1001169915	Ref	Installation, Piston Pump (See Separate Breakdown in this Section)	
3	1001189995	Ref	Installation, Boom Hydraulic (See Separate Breakdown in this Section)	
4	1001171208	Ref	Installation, Hydraulic Lines (110HP) (See Separate Breakdown in this Section)	
5	1001171211	Ref	Installation, Frame Level Hydraulics (Outriggers) (See Separate Breakdown in this Section)	
6	1001175933	Ref	Installation, Cab Hydraulic (See Separate Breakdown in this Section)	

FIGURE 8-22. MAIN HYDRAULIC INSTALLATION (EMERGENCY STEERING)



ART_1001226272-A

FIGURE 8-22. MAIN HYDRAULIC INSTALLATION (EMERGENCY STEERING)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001226272	Ref	Main Hydraulic Installation (Emergency Steering No Outriggers)	A
1	1001169910	Ref	Installation, Valve (No Outriggers) (See Separate Breakdown in this Section)	
2	1001169915	Ref	Installation, Pump (See Separate Breakdown in this Section)	
3	1001171208	Ref	Installation, Hydraulic Lines (110HP) (See Separate Breakdown in this Section)	
4	1001171209	Ref	Installation, Frame Level Hydraulics (No Outriggers) (See Separate Breakdown in this Section)	
5	1001189995	Ref	Installation, Boom Hydraulic (See Separate Breakdown in this Section)	
6	1001226271	Ref	Installation, Cab Hydraulic (Emergency Steering) (See Separate Breakdown in this Section)	

FIGURE 8-23. MAIN HYDRAULICS INSTALLATION

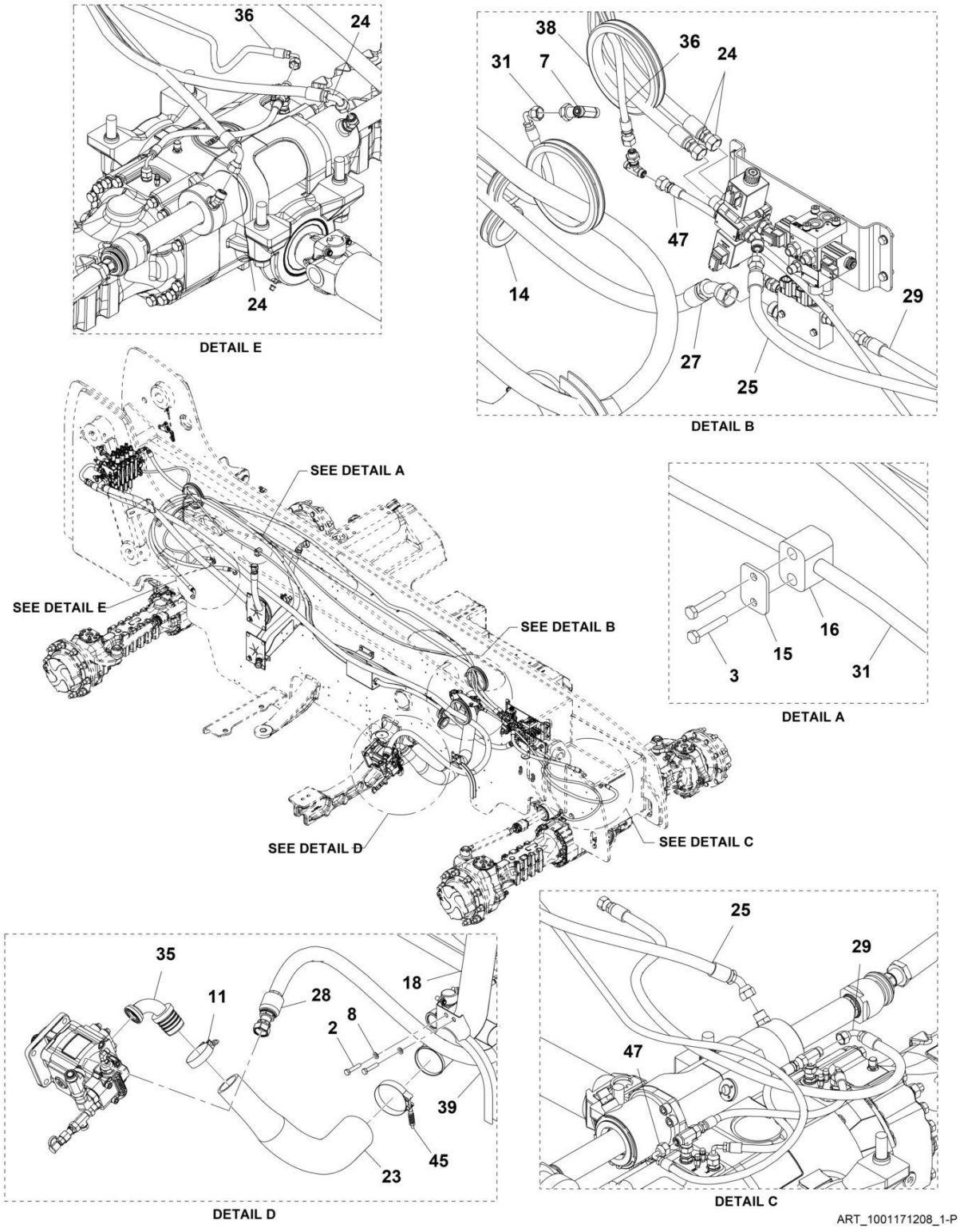


FIGURE 8-24. MAIN HYDRAULICS INSTALLATION

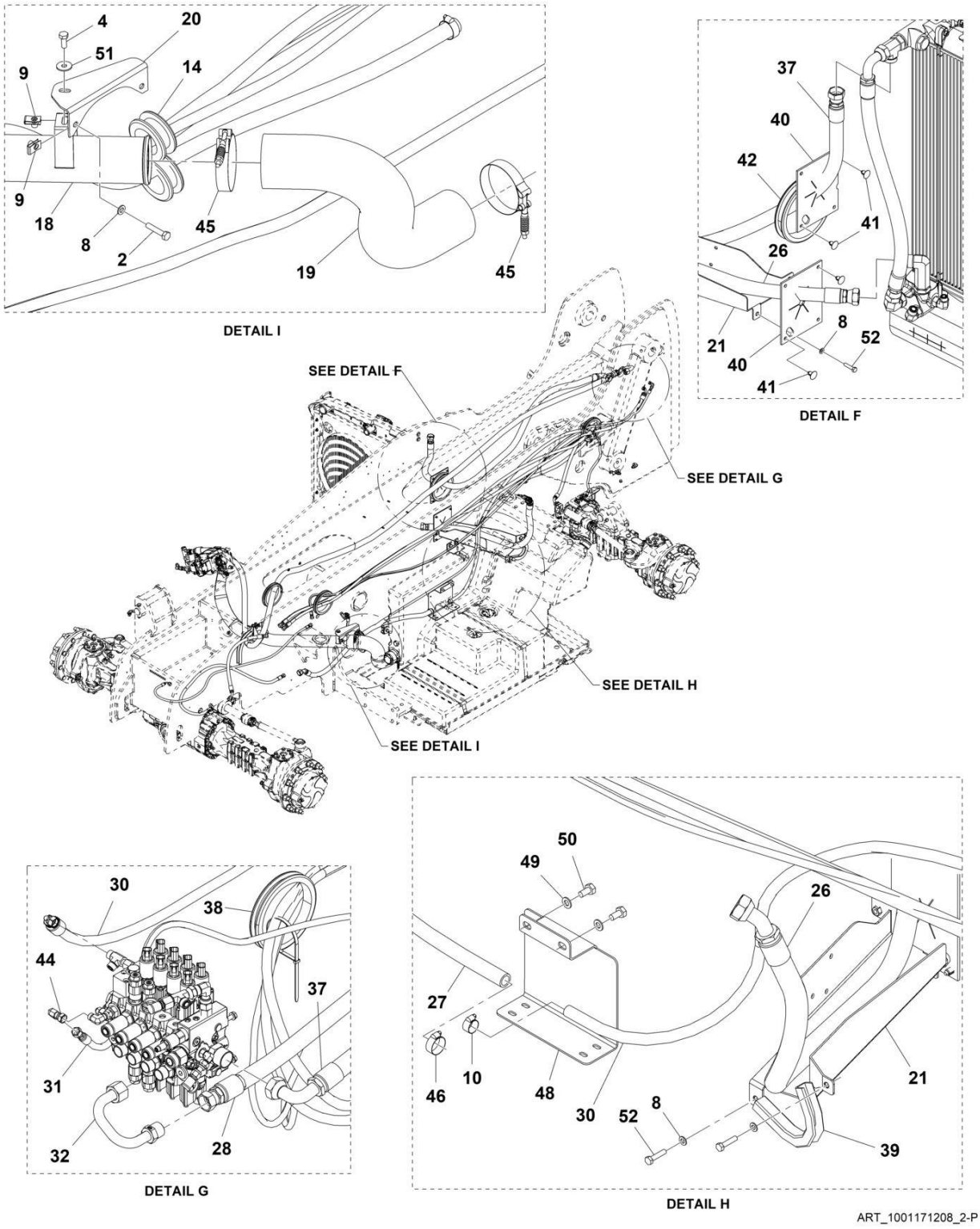


FIGURE 8-24. MAIN HYDRAULICS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171208	Ref	Hydraulic Lines Installation (110HP)	P
2	0700816	4	Bolt, M8X40	
3	0760615	2	Bolt, M6X35	
4	0760810	1	Bolt, M8X20	
7	2221225	1	Fitting, Tee	
8	4811900	8	Washer	
9	8310686	3	Nut, M8X12.5	
10	8405006	1	Clamp, Gear	
11	8405209	1	Clamp, T-Bolt	
14	1001188971	2	Grommet	
15	8769146	1	Cover, Plate	
16	8750030	1	Clamp, Set	
18	1001173446	1	Pipe	
19	1001173451	1	Hose	
20	1001174338	1	Bracket	
21	1001257763	1	Channel	
23	1001175057	1	Hose	
24	1001177273	2	Hose	
25	1001177248	1	Hose	
26	1001161978	1	Hose	
27	1001295569	1	Hose	
28	1001175997	1	Hose	
29	1001176043	1	Hose	
30	1001231874	1	Hose	
31	1001176124	1	Hose	
32	1001176139	1	Pipe	
35	1001176548	1	Fitting, 90	
36	1001202847	1	Hose	
37	1001175699	1	Hose	
38	1001177704	2	Grommet	
39	4060918	467 mm	Trim	
40	1001175347	2	Grommet	
41	1001180306	8	Screw	
42	1001169830	1	Grommet	
44	2172104	1	Fitting, 90 ORFS	
45	1001186843	3	Clamp, T-Bolt	
46	8405007	1	Clamp, Gear	
47	1001203502	1	Hose	
48	1001208881	1	Bracket	
49	4812000	2	Washer, M10	
50	0761010	2	Bolt, M10X20	
51	4811902	1	Washer, M8	
52	0700815	4	Bolt, M8X35	
54	4060807	482 mm	Flex Trim	

FIGURE 8-25. MAIN CONTROL VALVE INSTALLATION

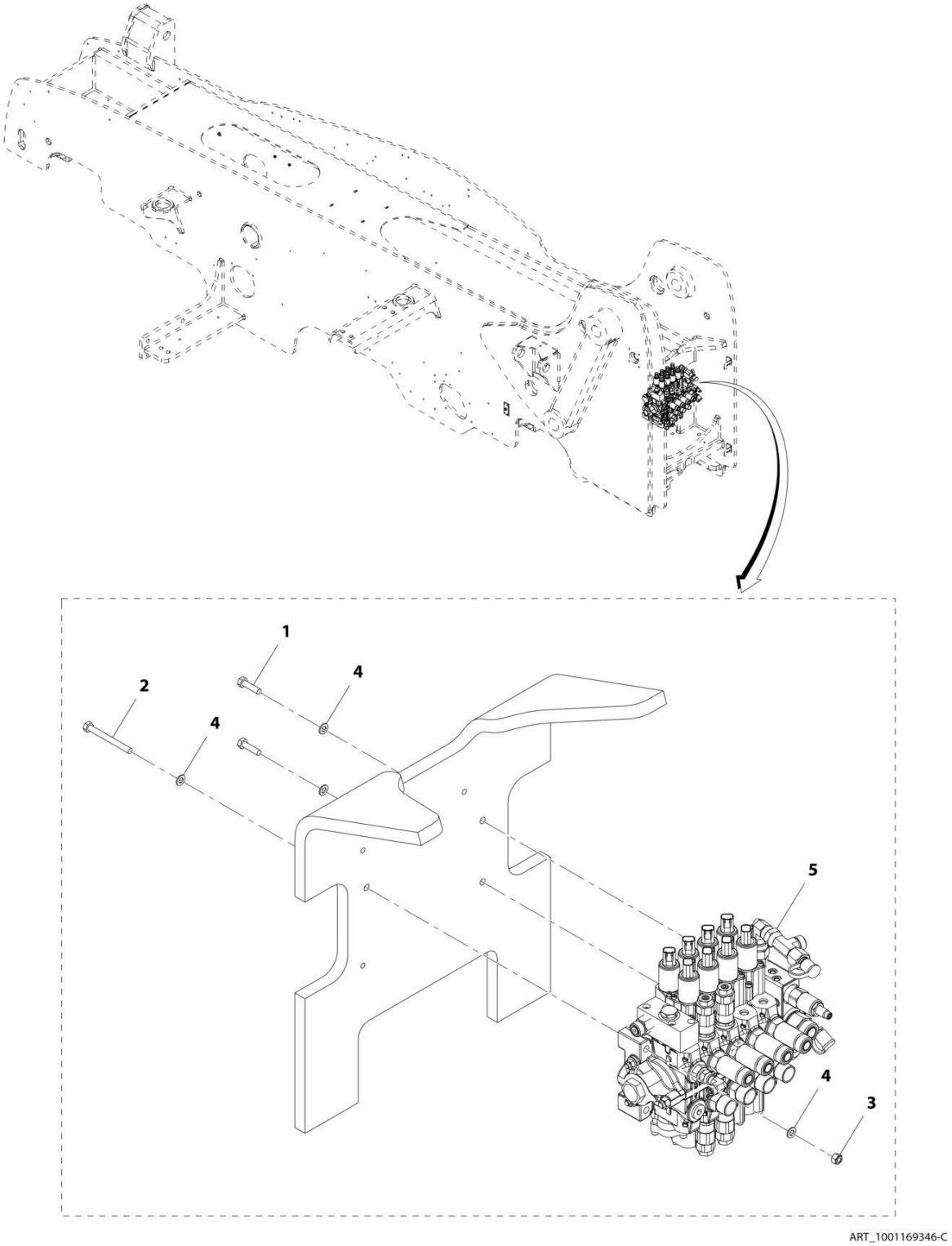


FIGURE 8-25. MAIN CONTROL VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169346	Ref	Main Control Valve Installation	C
1	0700814	2	Bolt, M8X30	
2	0700824	1	Bolt, M8X80	
3	3290805	1	Nut, Lock M8X1.25 Grade 8	
4	4811900	4	Washer, M8	
5	1001169349	1	Assembly, Main Control Valve (See Separate Breakdown in this Section)	

FIGURE 8-26. MAIN CONTROL VALVE ASSEMBLY

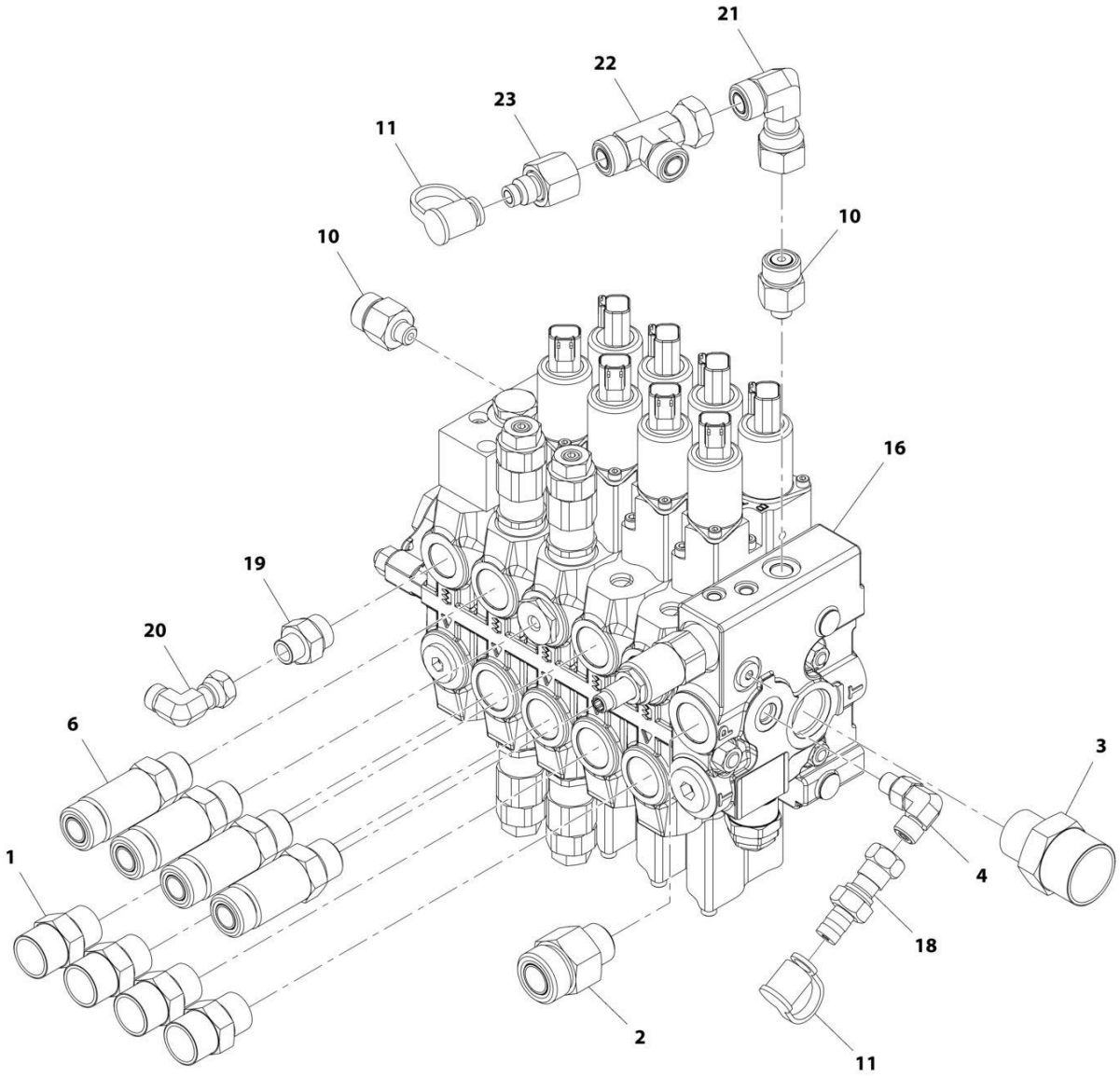


FIGURE 8-26. MAIN CONTROL VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169349	Ref	Main Control Valve Assembly	G
1	2111010	4	Fitting, Straight ORFS	
2	2111210	1	Fitting, Straight ORFS	
3	2111612	1	Fitting, Straight ORFS	
4	2130404	1	Fitting, 90 ORFS	
6	2170110	4	Fitting, Straight ORFS	
10	2221233	2	Fitting, Straight ORFS	
11	8430032	2	Plug	
16	1001166765	1	Valve, Main Control (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
18	2221229	1	Fitting, Straight ORFS	
19	2110408	1	Fitting, Straight ORFS	
20	2172104	1	Fitting, 90 ORFS	
21	2172108	1	Fitting, 90 ORFS	
22	2170708	1	Fitting, Tee ORFS	
23	8430082	1	Fitting, Straight ORFS	

FIGURE 8-27. PARK BRAKE INSTALLATION (Prior to SN 0160080898)

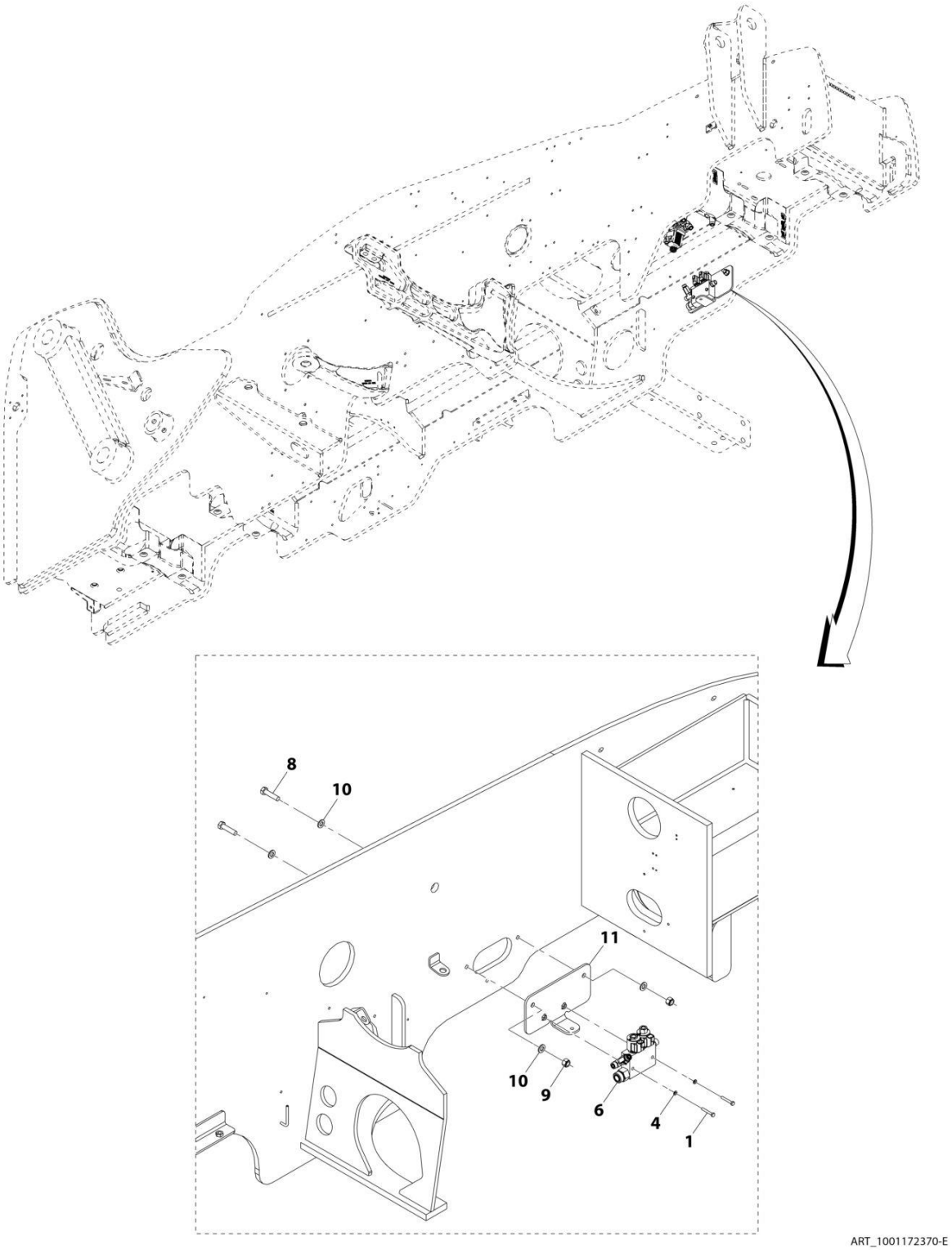


FIGURE 8-27. PARK BRAKE INSTALLATION (Prior to SN 0160080898)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172370	Ref	Park Brake Installation	E
1	0700616	2	Bolt, M6X40	
4	4811700	2	Washer, M6	
6	1001170561	1	Installation, Park Brake Valve (See Separate Breakdown in this Section)	
8	0761218	2	Bolt, M12X50	
9	3291205	2	Nut, Lock M12X1.75 Grade 8	
10	4812100	4	Washer, M12	
11	1001225995	1	Bracket Assembly	

FIGURE 8-28. PARK BRAKE INSTALLATION (SN 0160080898 to Present)

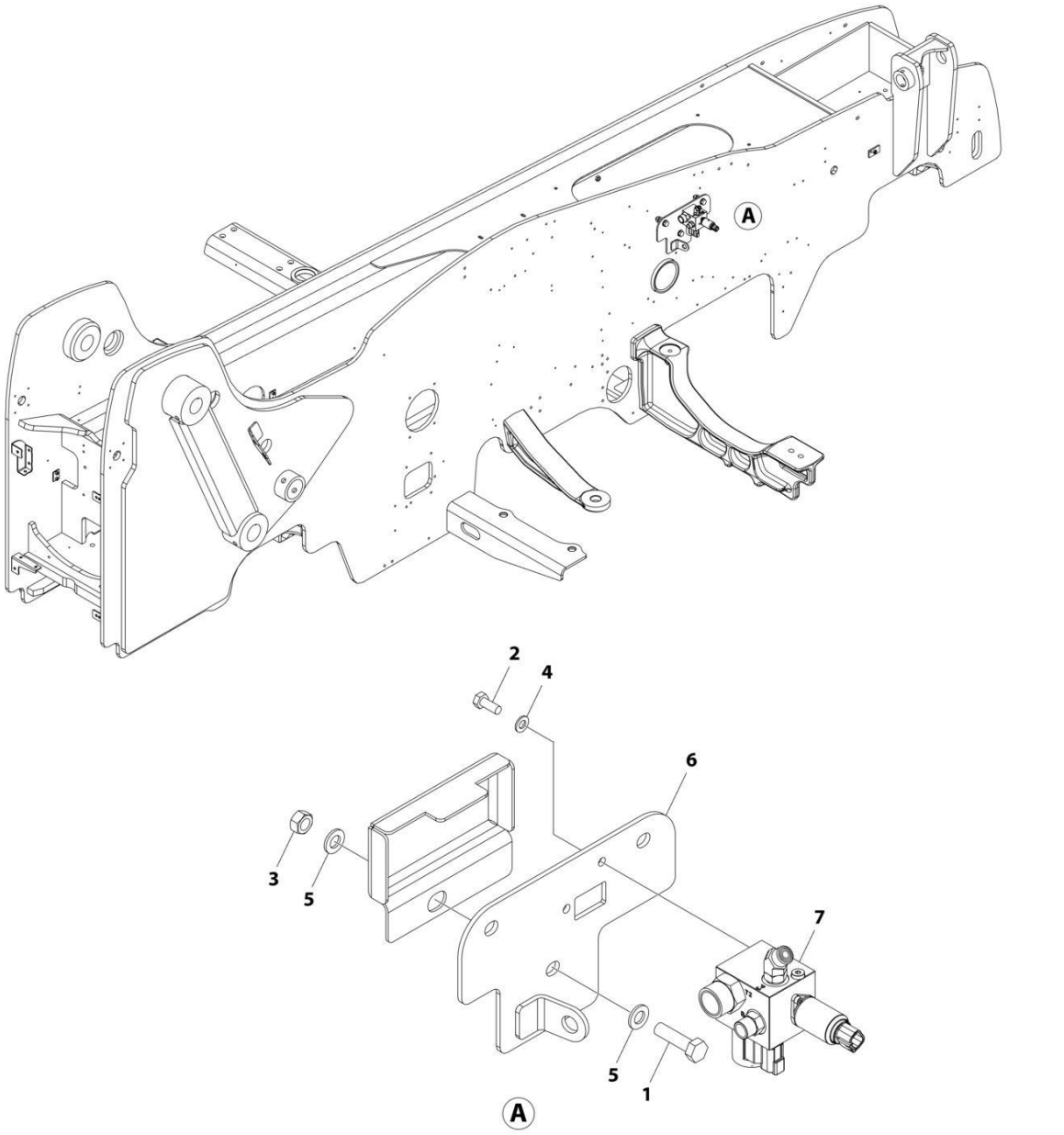
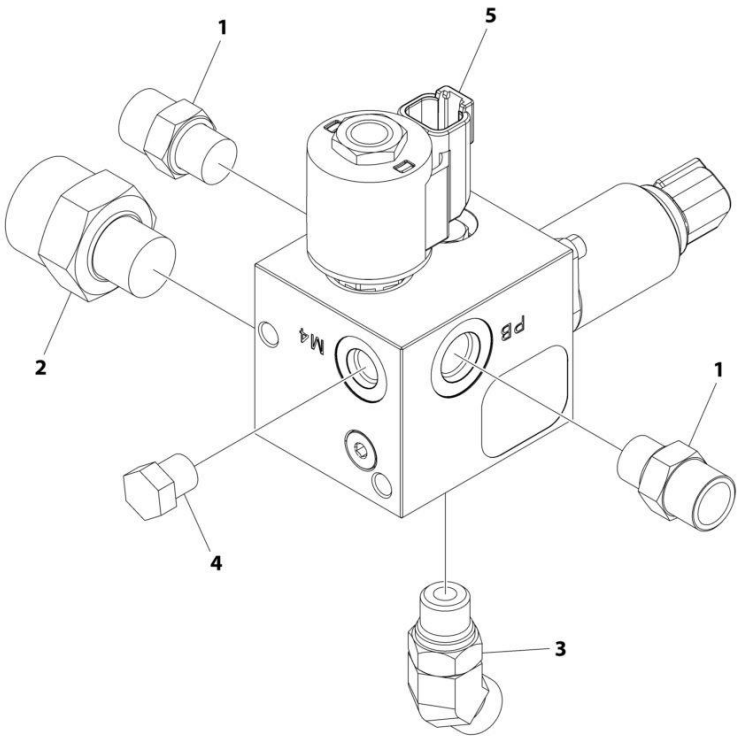


FIGURE 8-28. PARK BRAKE INSTALLATION (SN 0160080898 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001295557	Ref	PARK BRAKE INSTALLATION	A
1	0701217	3	Bolt M12 x 45	
2	0760810	2	Bolt M8 x 20	
3	3291201	3	Nut M12	
4	4811900	2	Washer M8	
5	4812100	6	Washer M12	
6	1001234277	1	Plate	
7	1001295556	1	Installation, Park Brake Valve (See Separate Breakdown in this Section)	

FIGURE 8-29. PARKING BRAKE VALVE INSTALLATION

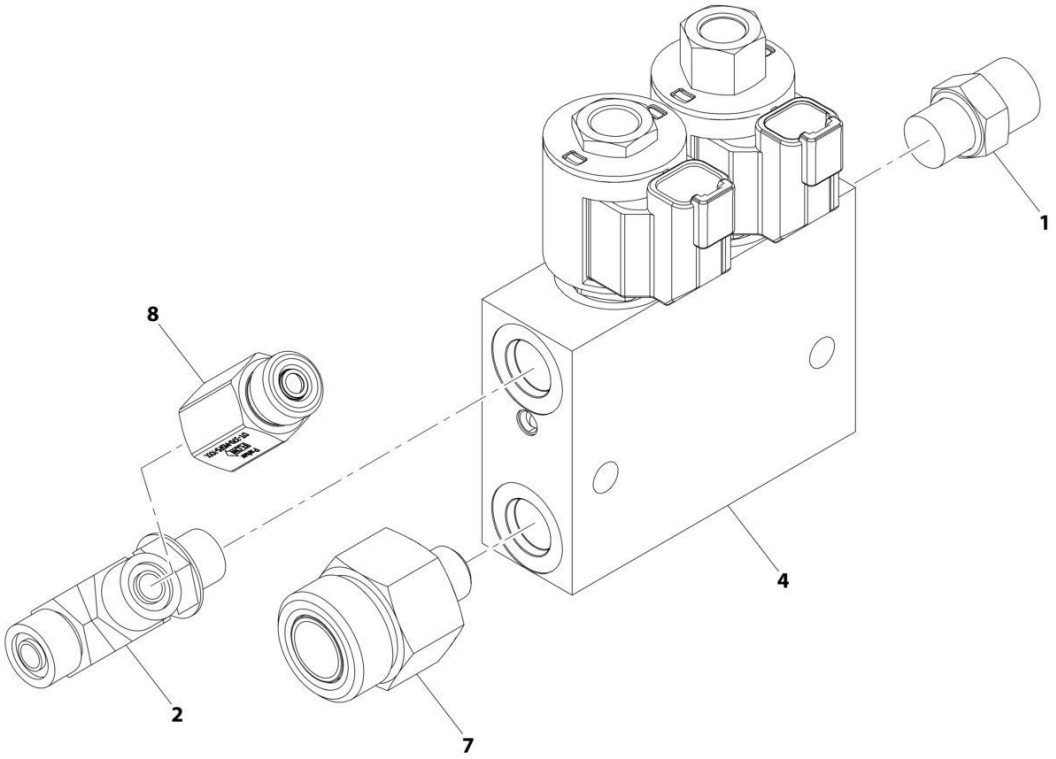


ART_1001295556

FIGURE 8-29. PARKING BRAKE VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001295556	Ref	VALVE INSTALLATION - PARKING BRAKE	A
1	2110606	2	Fitting, Straight ORFS/ORB	
2	2111208	1	Fitting, Straight ORFS/ORB	
3	2150606	1	Fitting, 45 ORFS/ORB	
4	2220235	1	Fitting, Plug ORB	
5	1001234127	1	Valve, SAHR Brake (See Separate Breakdown in HYDRULIC COMPONENTS Section)	

FIGURE 8-30. PARK BRAKE VALVE ASSEMBLY



ART_1001170561-F

FIGURE 8-30. PARK BRAKE VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001170561	Ref	Park Brake Valve Assembly	F
1	2110606	1	Fitting, Straight ORFS	
2	2170306	1	Fitting, Tee ORFS	
4	1001164652	1	Valve, Park Brake (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
7	1001207758	1	Fitting, Straight ORFS	
8	1001218781	1	Check Valve	

FIGURE 8-31. PISTON PUMP INSTALLATION

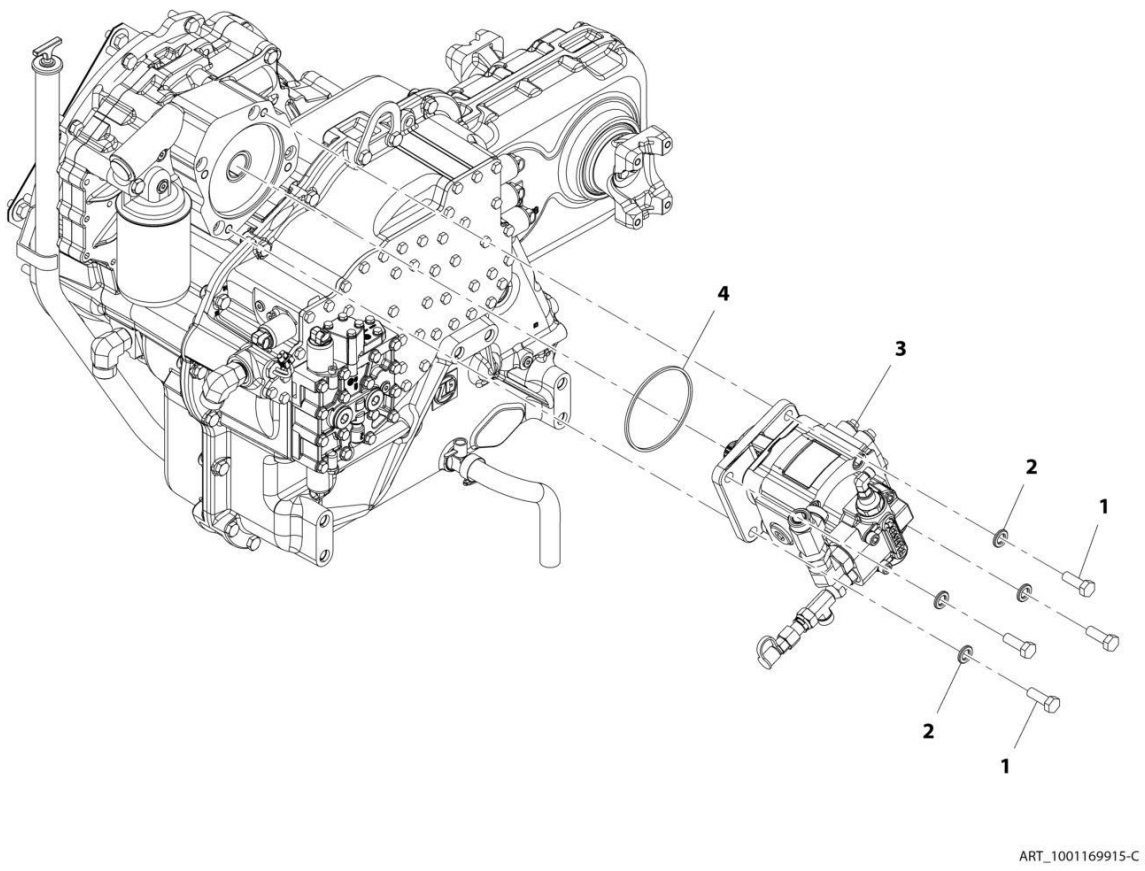


FIGURE 8-31. PISTON PUMP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169915	Ref	Piston Pump Installation	C
1	0761215	4	Bolt, M12X35	
2	4740532	4	Washer	
3	1001171097	1	Assembly, Piston Pump (See Separate Breakdown in this Section)	
4	80933113	1	O-Ring	

FIGURE 8-32. PISTON PUMP ASSEMBLY

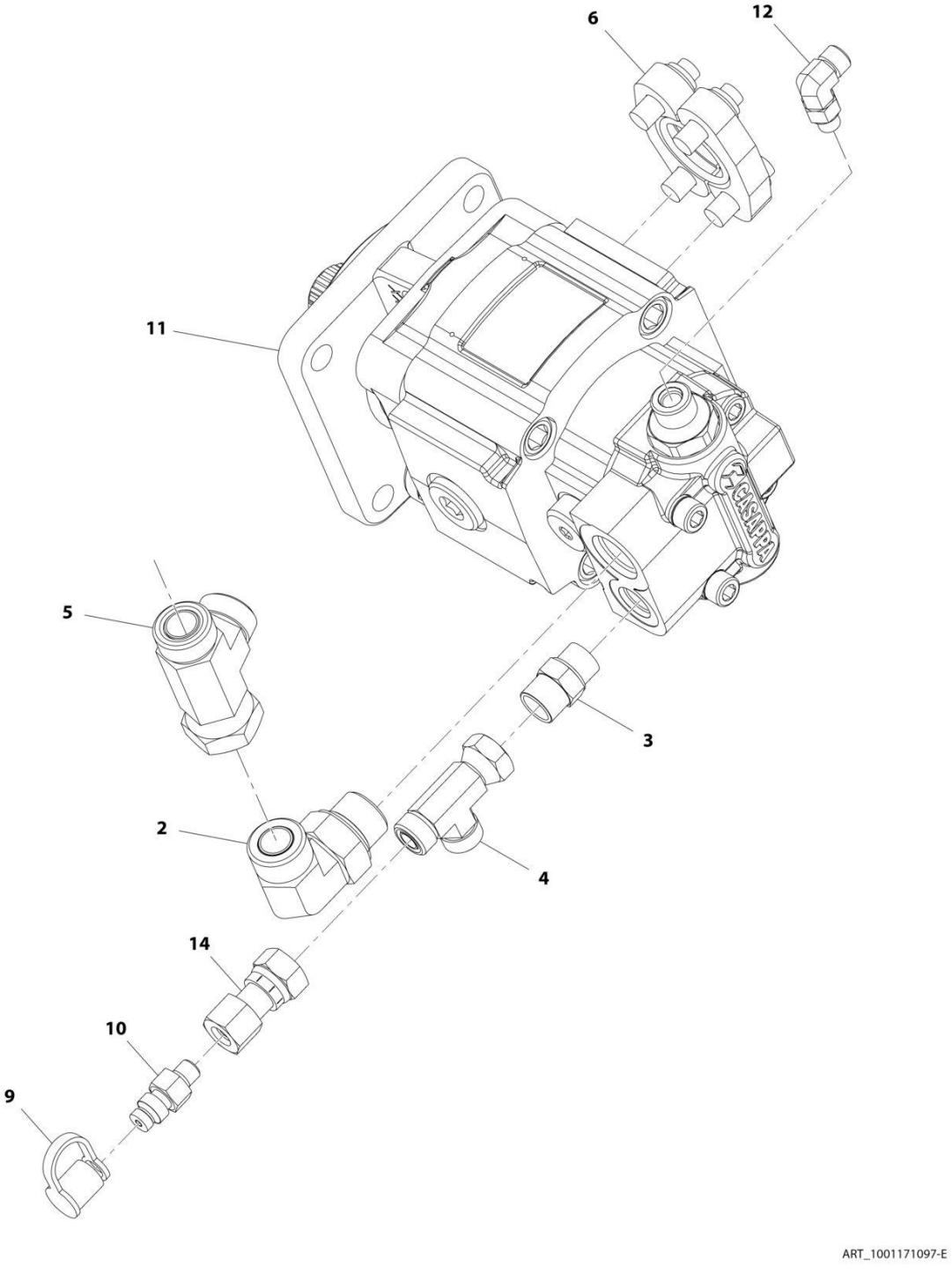


FIGURE 8-32. PISTON PUMP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171097	Ref	Piston Pump Assembly	E
2	2131212	1	Fitting, 90 ORFS	
3	2110808	1	Fitting, Straight ORFS	
4	2170708	1	Fitting, Tee ORFS	
5	2170712	1	Fitting, Tee ORFS	
6	2171820	1	Flange	
9	8430032	1	Plug	
10	8430033	1	Fitting, Straight	
11	1001163746	1	Assembly, Pump (See Separate Breakdown in Hydraulic Components Section)	
12	2130404	1	Fitting, 90 ORFS	
14	1001176529	1	Fitting, Straight ORFS	

FIGURE 8-33. QUICK COUPLER CYLINDER ASSEMBLY

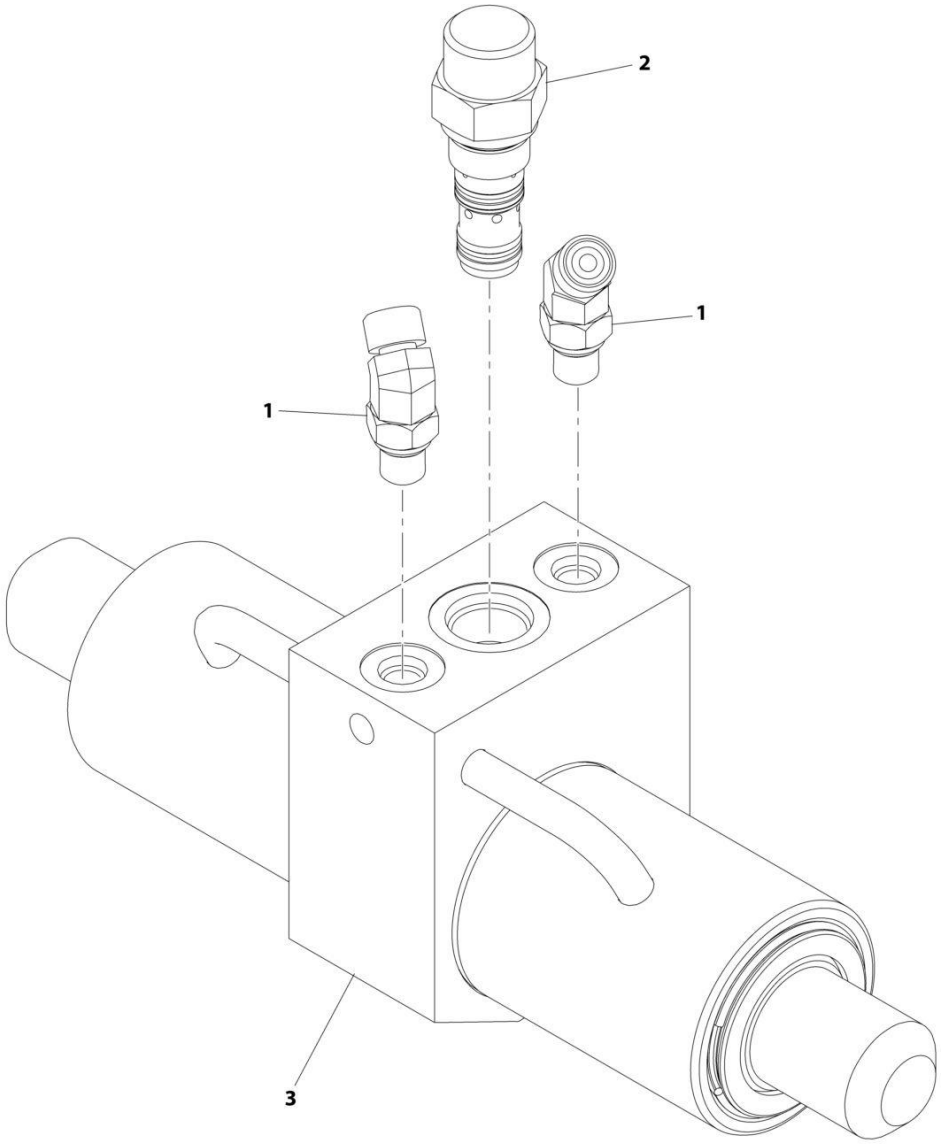


FIGURE 8-33. QUICK COUPLER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001210390	Ref	Quick Coupler Cylinder Assembly	A
1	2150404	2	Fitting, 45 ORFS	
2	1001007056	1	Valve, Check	
3	1001120163	1	Cylinder, Quick Coupler (See Separate Breakdown in this Section)	

FIGURE 8-34. QUICK COUPLER VALVE ASSEMBLY

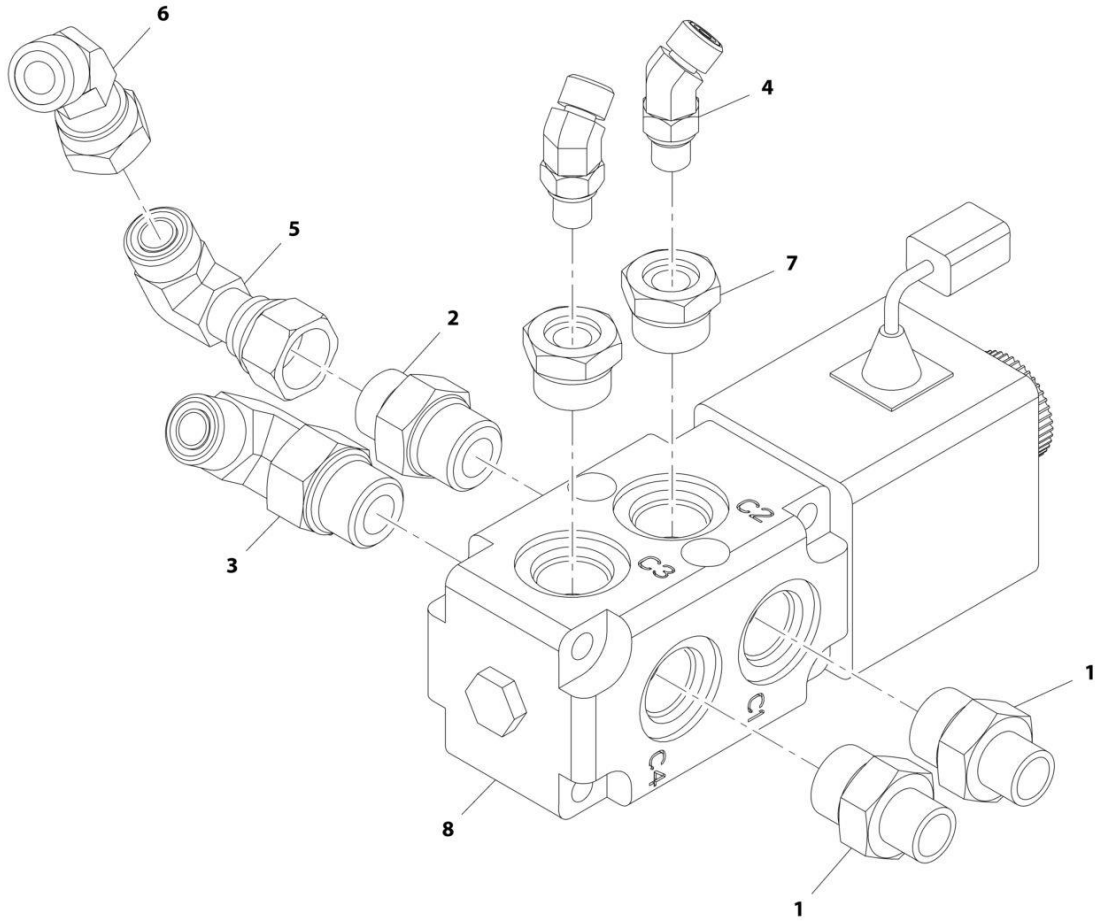


FIGURE 8-34. QUICK COUPLER VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197182	Ref	Quick Coupler Valve Assembly	B
1	2110610	2	Fitting, Straight	
2	2110810	1	Fitting, Straight	
3	2130810	1	Fitting, 90 ORFS	
4	2150404	2	Fitting, 45 ORFS	
5	2172108	1	Fitting, 90 ORFS	
6	2221231	1	Fitting, 45 ORFS	
7	1001001568	2	Reducer	
8	1001104477	1	Valve, Quick Coupler (See Separate Breakdown in Hydraulic Components Section)	

FIGURE 8-35. REAR AXLE STABILIZER INSTALLATION

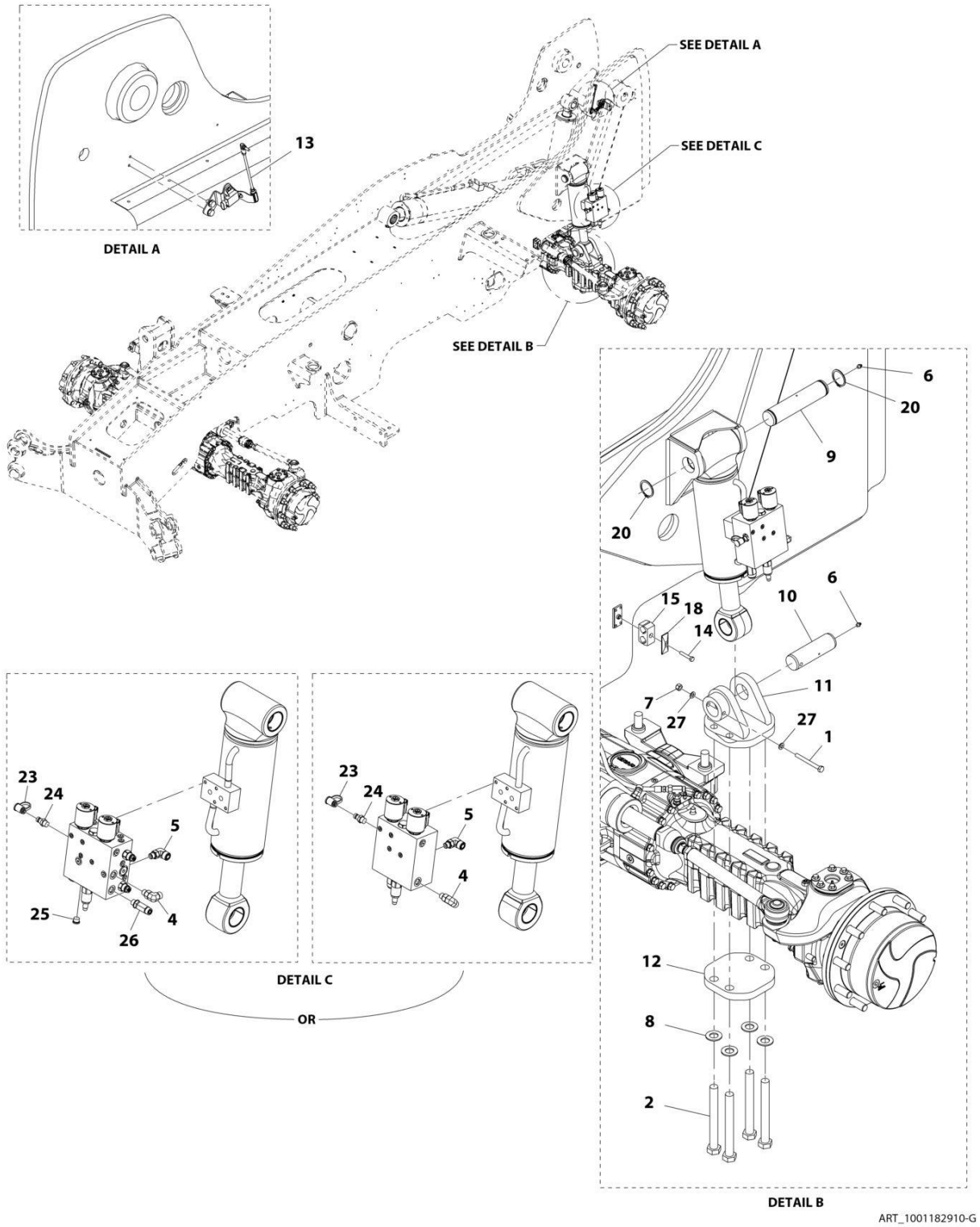


FIGURE 8-35. REAR AXLE STABILIZER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001182910	Ref	Rear Axle Stabilizer Installation	G
1	0711027	1	Bolt, M10X100	
2	0712439	4	Bolt, M10.9X24	
4	2130606	1	Fitting, 90 ORFS	
5	2130806	1	Fitting, 90 ORFS	
6	2160016	2	Fitting, Grease	
7	3291005	1	Bolt, M10X1.5	
8	5242400	4	Washer, M24	
9	1001192341	1	Pin	
10	1001164972	1	Pin	
11	1001182903	1	Bracket	
12	1001182908	1	Plate	
13	1001184056	1	Installation, Boom Angle Sensor (See Separate Breakdown in this Section)	
14	0760817	1	Bolt, M8X45	
15	8750016	1	Clamp	
18	77133137	1	Plate	
20	3760493	2	Ring, Retaining	
23	8430032	1	Plug	
24	1001003590	1	Fitting, Straight	
25	2220885	AR	Plug	
26	2170306	AR	Fitting, Tee ORFS	
27	4812000	2	Washer, M10	

FIGURE 8-36. STEERING SELECT AND FRAME LEVEL VALVE INSTALLATION

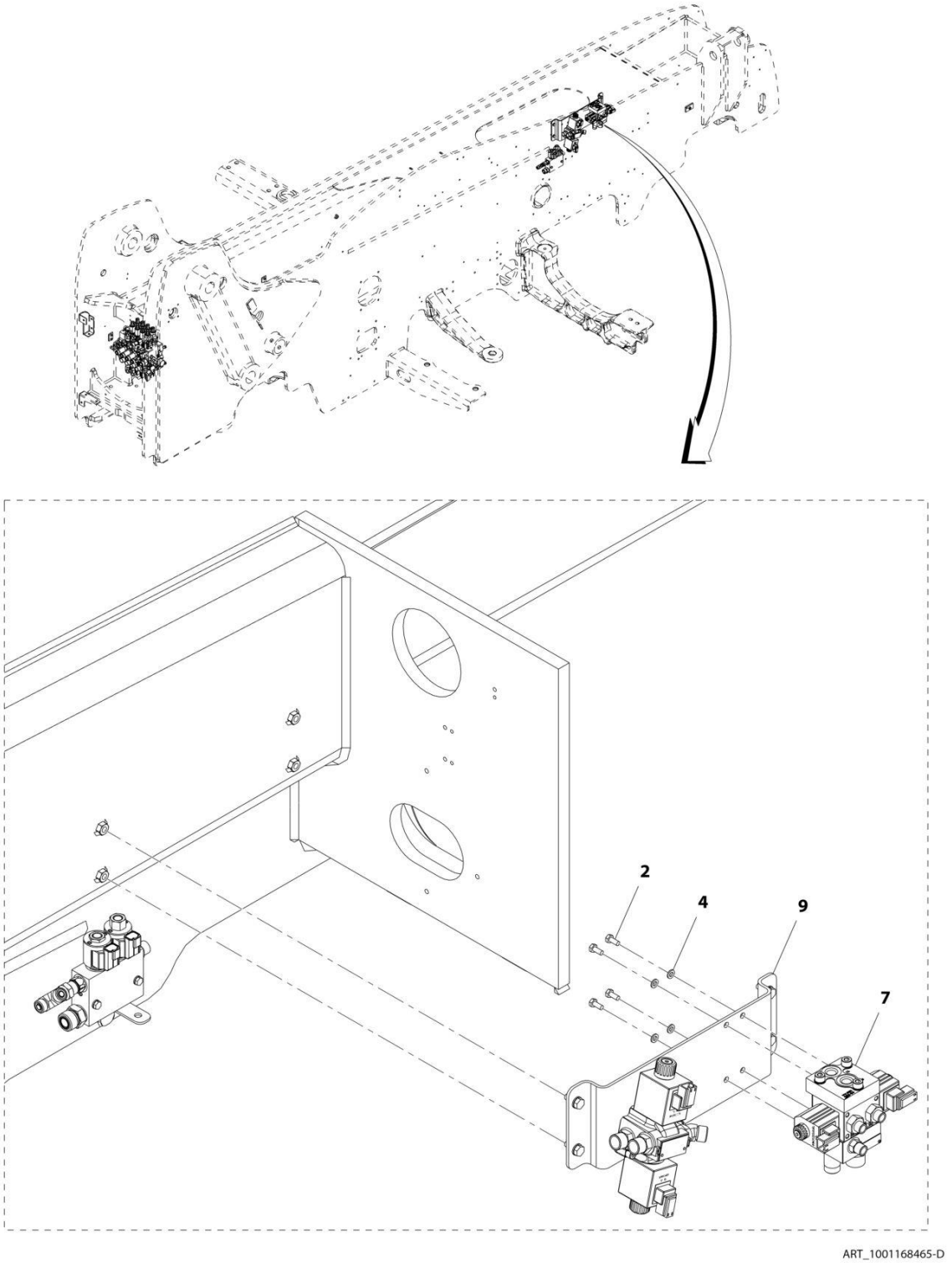


FIGURE 8-36. STEERING SELECT AND FRAME LEVEL VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168465	Ref	Steering Select and Frame Level Valve Installation	D
2	0760607	4	Bolt, M6X14	
4	4811700	4	Washer, M6	
7	1001169087	1	Assembly, Frame Level Valve (See Separate Breakdown in this Section)	
9	1001168464	Ref	Installation, Steering Select Valve Mounting (See Separate Breakdown in this Section)	

FIGURE 8-37. STEERING SELECT VALVE INSTALLATION

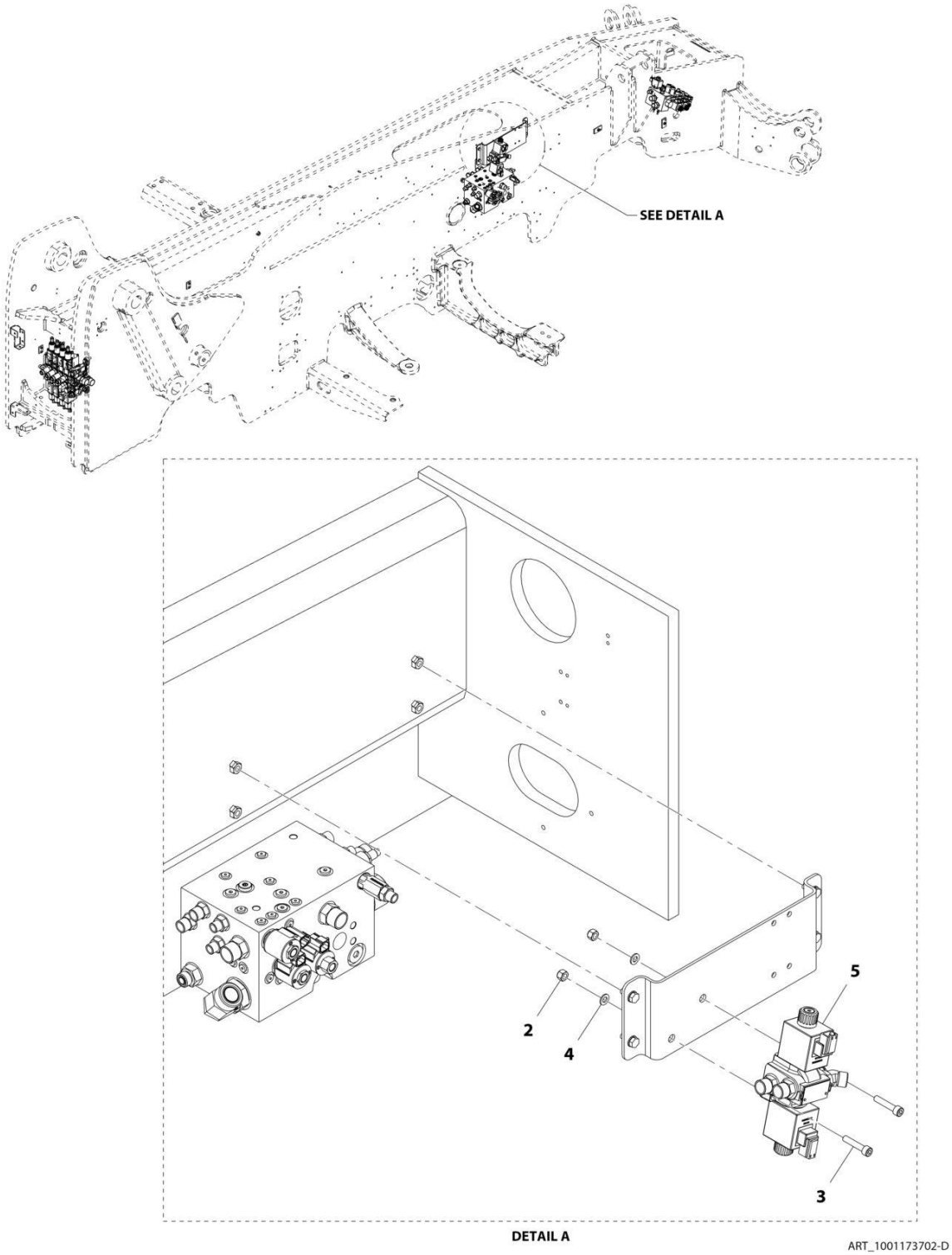


FIGURE 8-37. STEERING SELECT VALVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173702	Ref	Steering Select Valve Installation	D
2	3290805	2	Nut, Lock M8X1.25	
3	4031912	2	Bolt, M8X40	
4	4811900	2	Washer, M8	
5	1001161304	1	Assembly, Valve (See Separate Breakdown in this Section)	

FIGURE 8-38. STEERING SELECT VALVE MOUNTING INSTALLATION

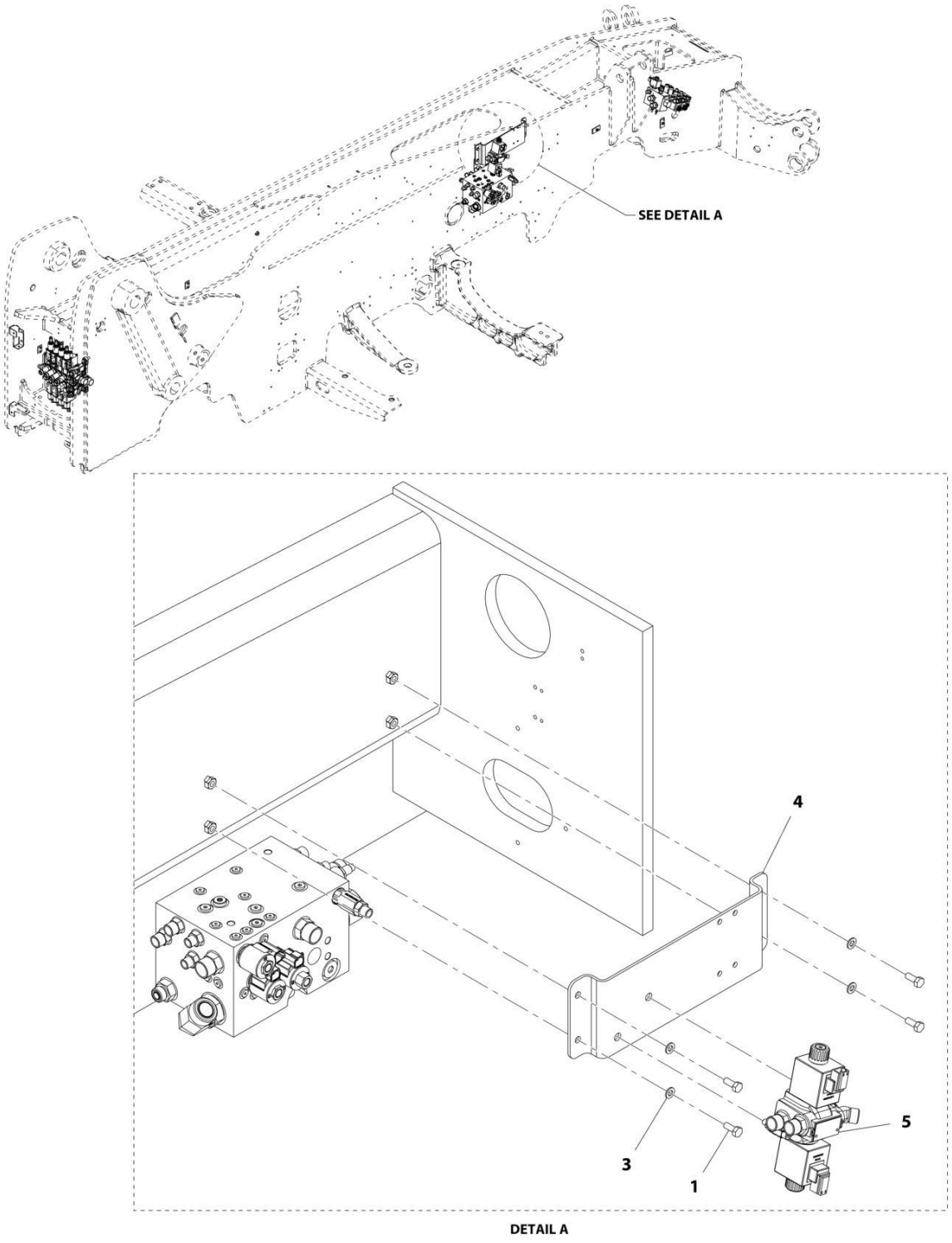


FIGURE 8-38. STEERING SELECT VALVE MOUNTING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168464	Ref	Steering Select Valve Mounting Installation	E
1	0760810	4	Bolt, M8X20	
3	4811900	4	Washer, M8	
4	1001167437	1	Bracket	
5	1001173702	Ref	Installation, Steering Select Valve (See Separate Breakdown in this Section)	

FIGURE 8-39. STEERING SELECT VALVE ASSEMBLY

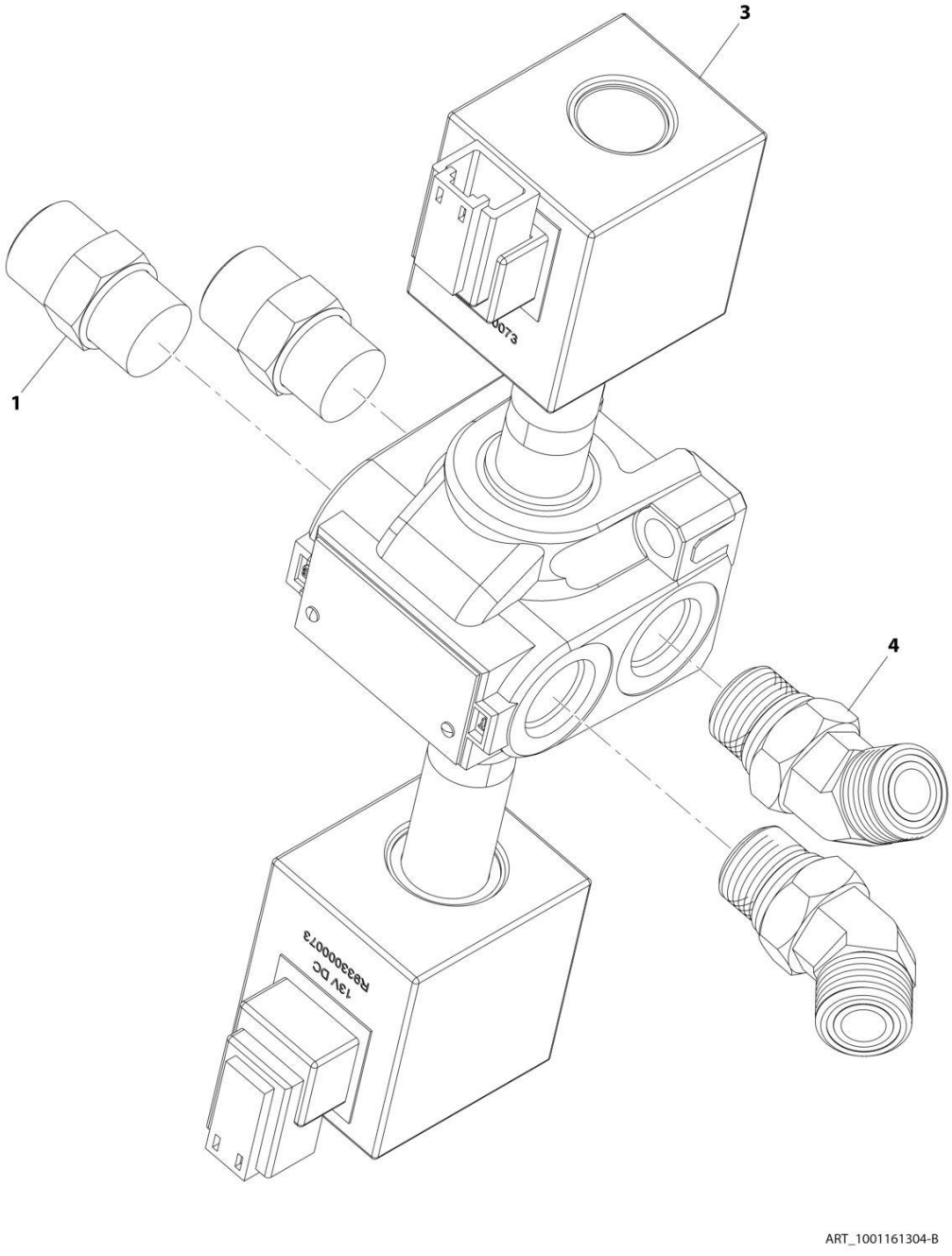


FIGURE 8-39. STEERING SELECT VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161304	Ref	Steering Select Valve Assembly	B
1	2110808	2	Fitting, Straight ORFS	
3	1001153748	1	Assembly, Valve (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
4	2150808	2	Fitting, 45 ORFS	

FIGURE 8-40. VALVE INSTALLATION (OUTRIGGERS)

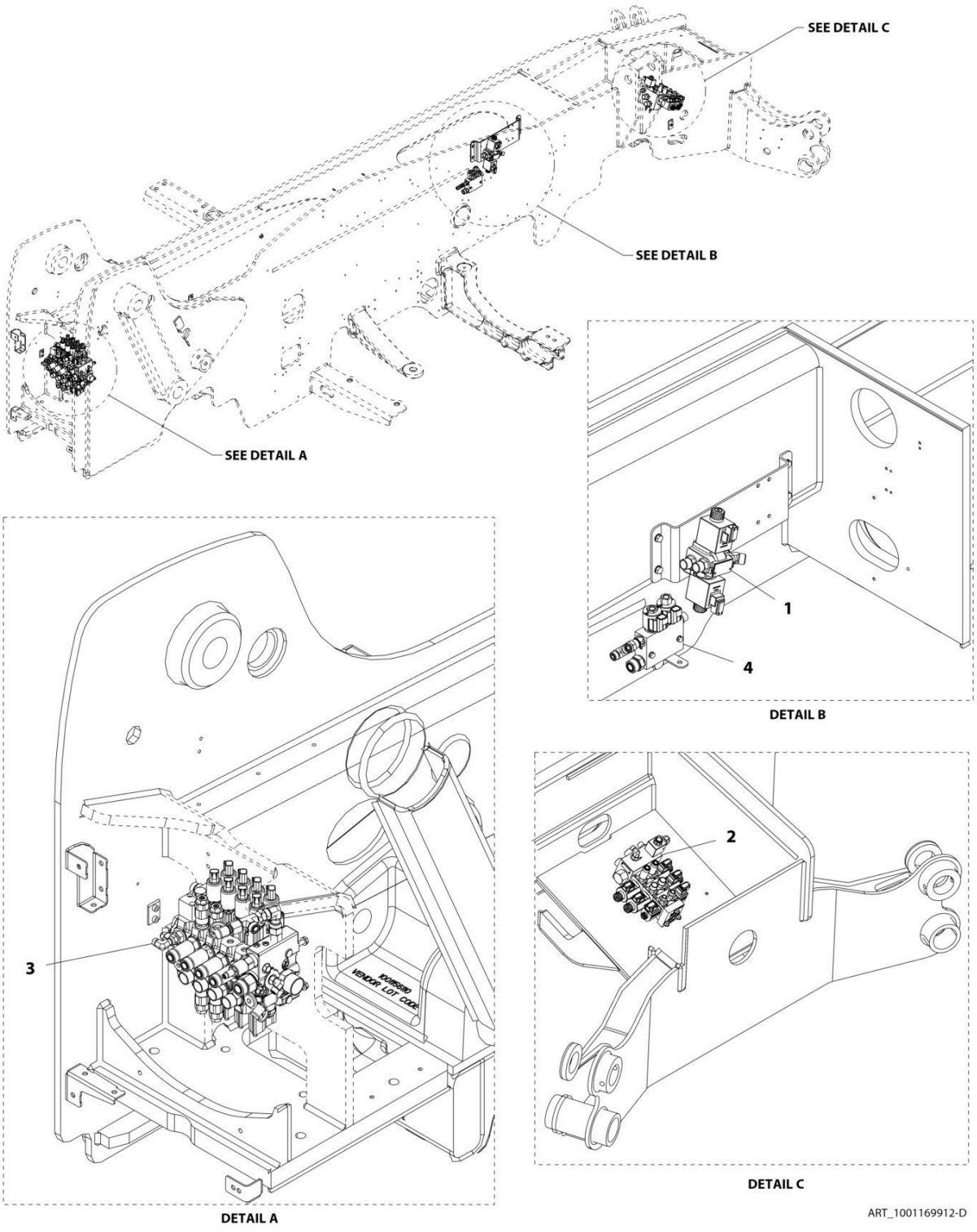


FIGURE 8-40. VALVE INSTALLATION (OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169912	Ref	Valve Installation (Outriggers)	D
1	1001168464	Ref	Installation, Steering Select Valve Mounting (See STEERING SELECT VALVE MOUNTING INSTALLATION for Breakdown)	
2	1001159760	Ref	Installation, Frame Level and Outrigger Valve (See FRAME LEVEL AND OUTRIGGER VALVE INSTALLATION for Breakdown)	
3	1001169346	Ref	Installation, Main Control Valve (See Separate Breakdown in this Section)	
4	1001172370	Ref	Installation, Park Brake (See PARK BRAKE INSTALLATION for Breakdown)	

FIGURE 8-41. VALVE INSTALLATION (NO OUTRIGGERS)

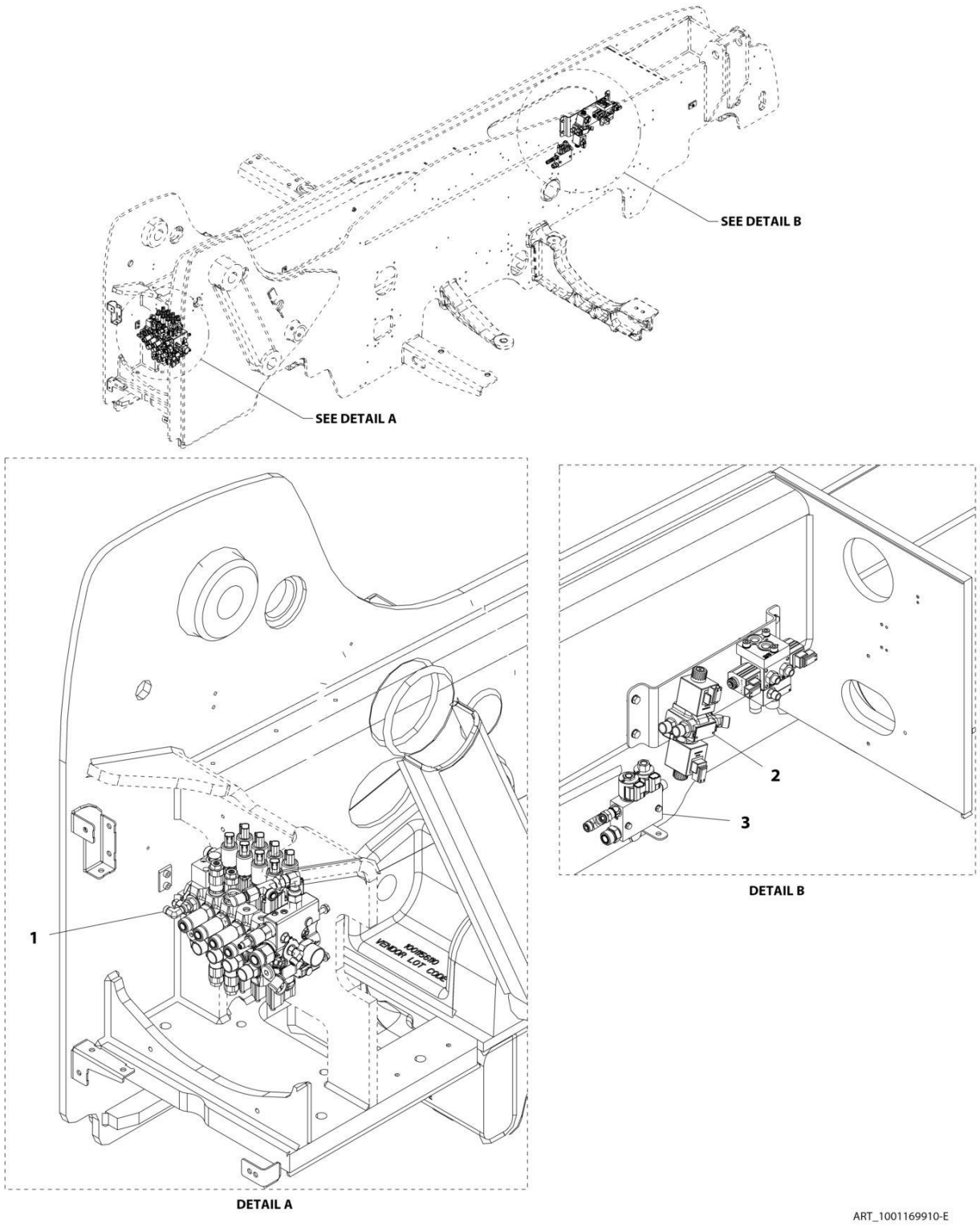
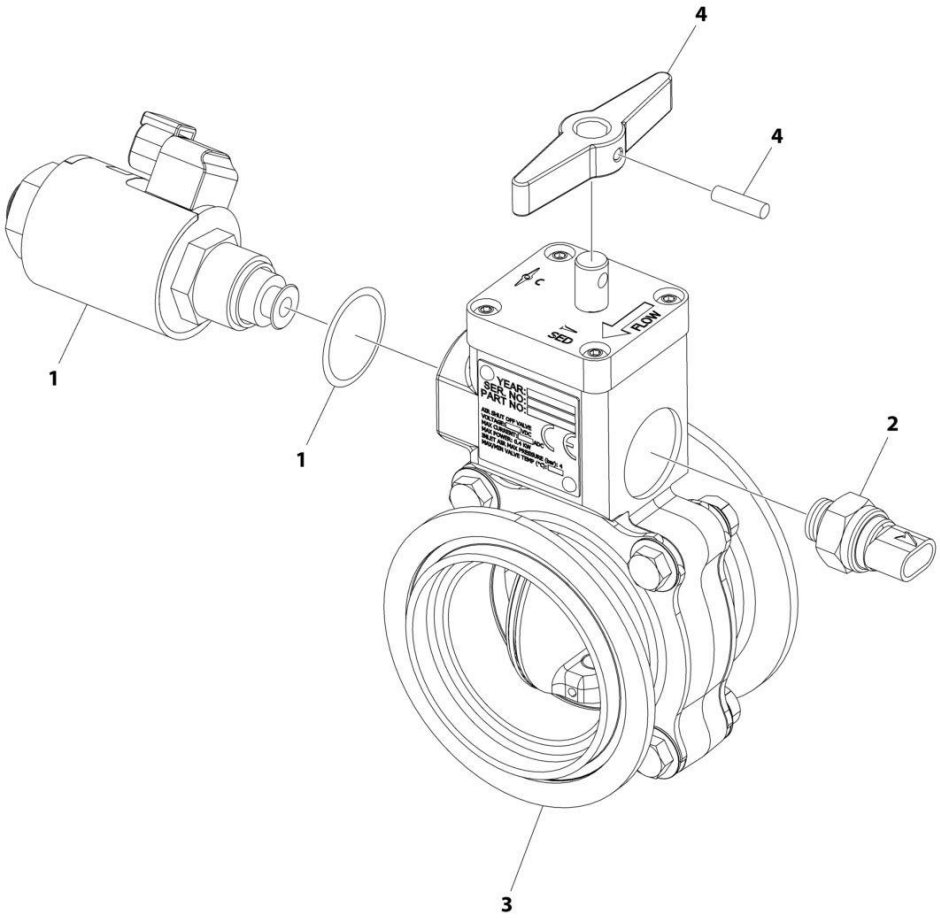


FIGURE 8-41. VALVE INSTALLATION (NO OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169910	Ref	Valve Installation (No Outriggers)	F
1	1001169346	Ref	Installation, Main Control Valve (See Separate Breakdown in this Section)	
2	1001168465	Ref	Installation, Steering Select and Frame Level Valve (See Separate Breakdown in this Section)	
3	1001295557	Ref	Installation, Park Brake (See Separate Breakdown in this Section)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. AIR SHUT OFF VALVE



ART_1001204032_C

FIGURE 9-1. AIR SHUT OFF VALVE

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

FIGURE 9-2. CYLINDER GROUP INSTALLATION

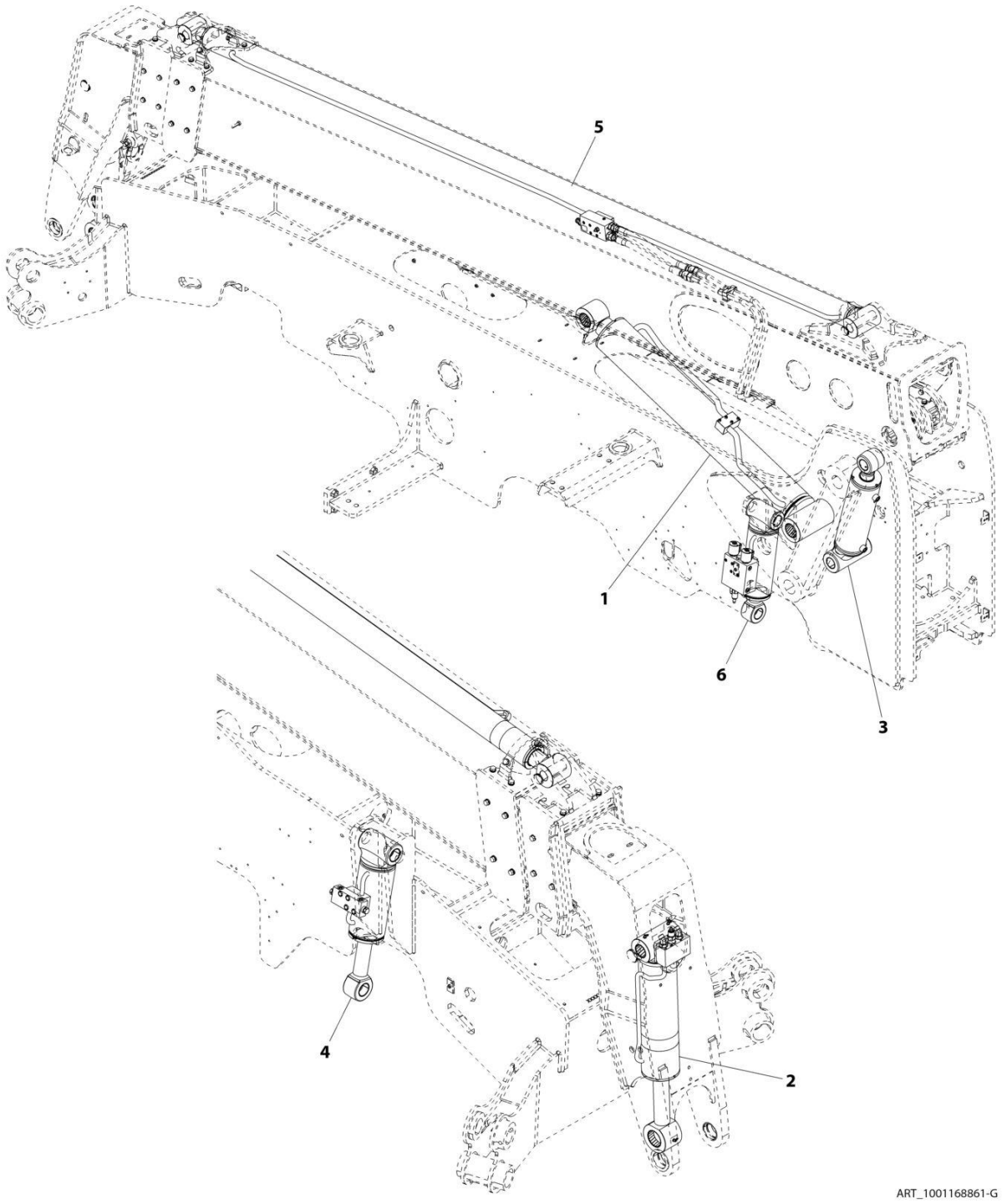


FIGURE 9-2. CYLINDER GROUP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168861	Ref	Cylinder Group Installation	G
1	1001204381	NLA	Cylinder, Lift (no longer available, use 1001228096 for replacement) (See Separate Breakdown in this Section)	
1	1001228096	1	Cylinder, Lift (See Separate Breakdown in this Section)	
2	1001184714	1	Cylinder, Tilt (See Separate Breakdown in this Section)	
3	1001197491	1	Cylinder, Compensation (See Separate Breakdown in this Section)	
4	1001162076	1	Cylinder, Frame Level (See Separate Breakdown in this Section)	
5	1001218577	1	Cylinder, Extend/Retract (See Separate Breakdown in this Section)	
6	1001164036	1	Cylinder, Rear Axle Stabilizer (See Separate Breakdown in this Section)	

FIGURE 9-3. COMPENSATION CYLINDER

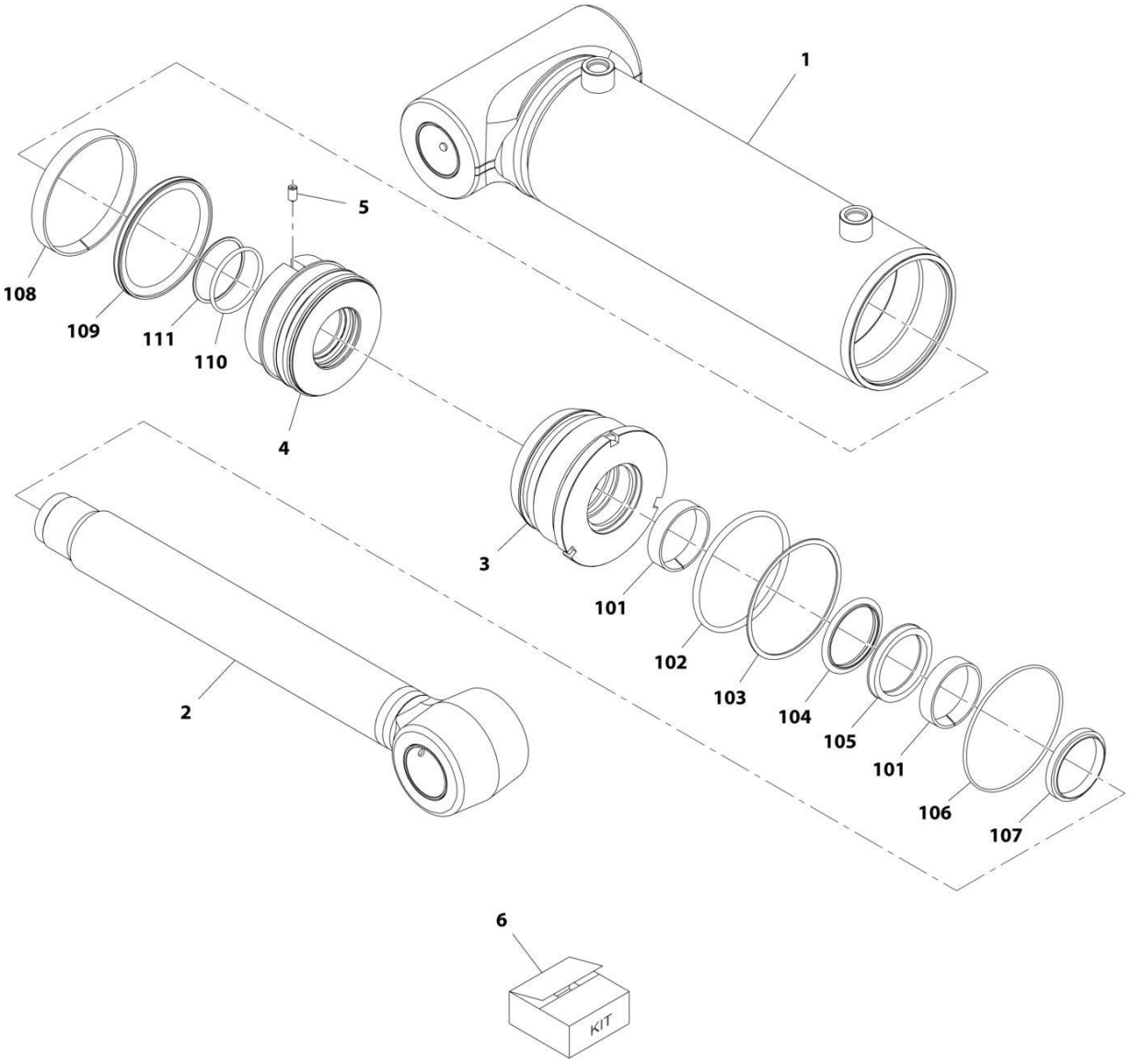


FIGURE 9-3. COMPENSATION CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197491	Ref	Compensation Cylinder	B
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	70026636	1	Body, Assembled	
2	70026436	1	Rod	
3	70026637	1	Guide, Rod	
4	70026638	1	Piston	
5	70020438	1	Screw, Piston Locking	
6	70026639	1	Kit, Seal (includes items 101 thru 111)	
101	Kit	1	Bearing	
102	Kit	2	O-Ring	
103	Kit	1	Ring, Backup	
104	Kit	1	Buffer	
105	Kit	1	Buffer	
106	Kit	1	O-Ring	
107	Kit	1	Wiper	
108	Kit	1	Bearing	
109	Kit	1	Seal, Piston	
110	Kit	1	O-Ring	
111	Kit	2	Ring, Backup	

FIGURE 9-4. DIVERTOR VALVE

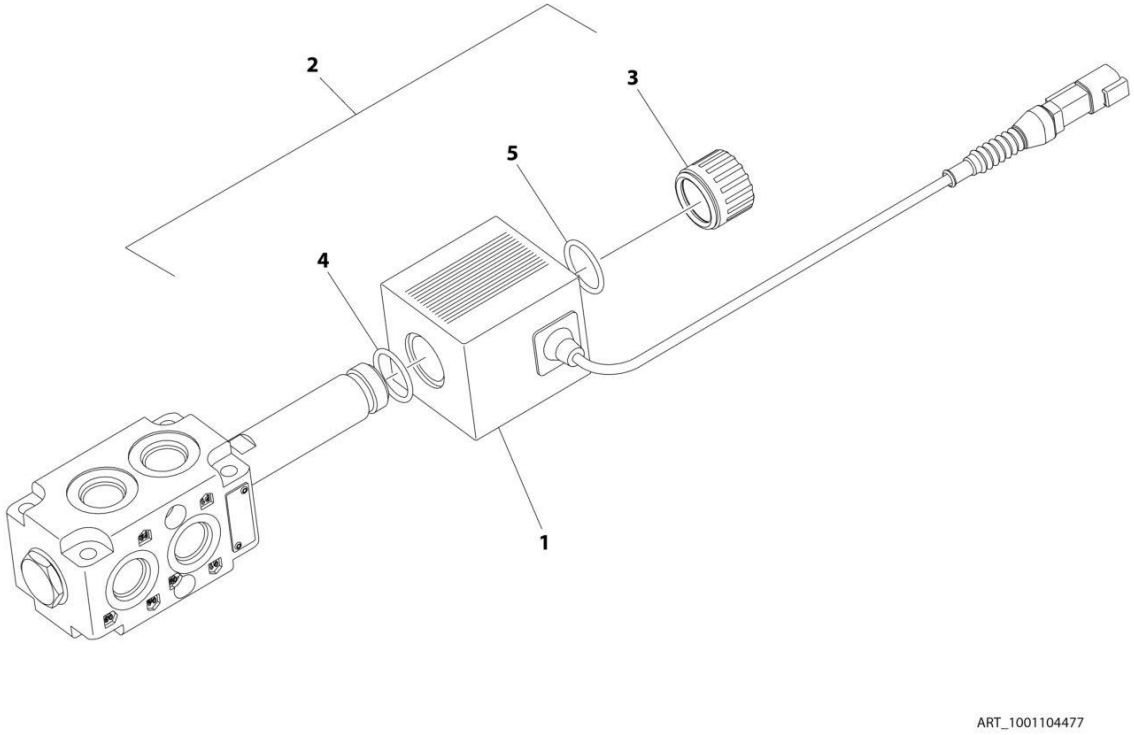


FIGURE 9-4. DIVERTOR VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104477	Ref	DIVERTOR VALVE	D
1	70020764	1	Coil	
2	70021531	1	Retainer Kit (Includes Items 3-5)	
3	Kit	1	Nut	
4	Kit	1	O-Ring	
5	Kit	1	O-Ring	

FIGURE 9-5. EXTEND/RETRACT CYLINDER INSTALLATION

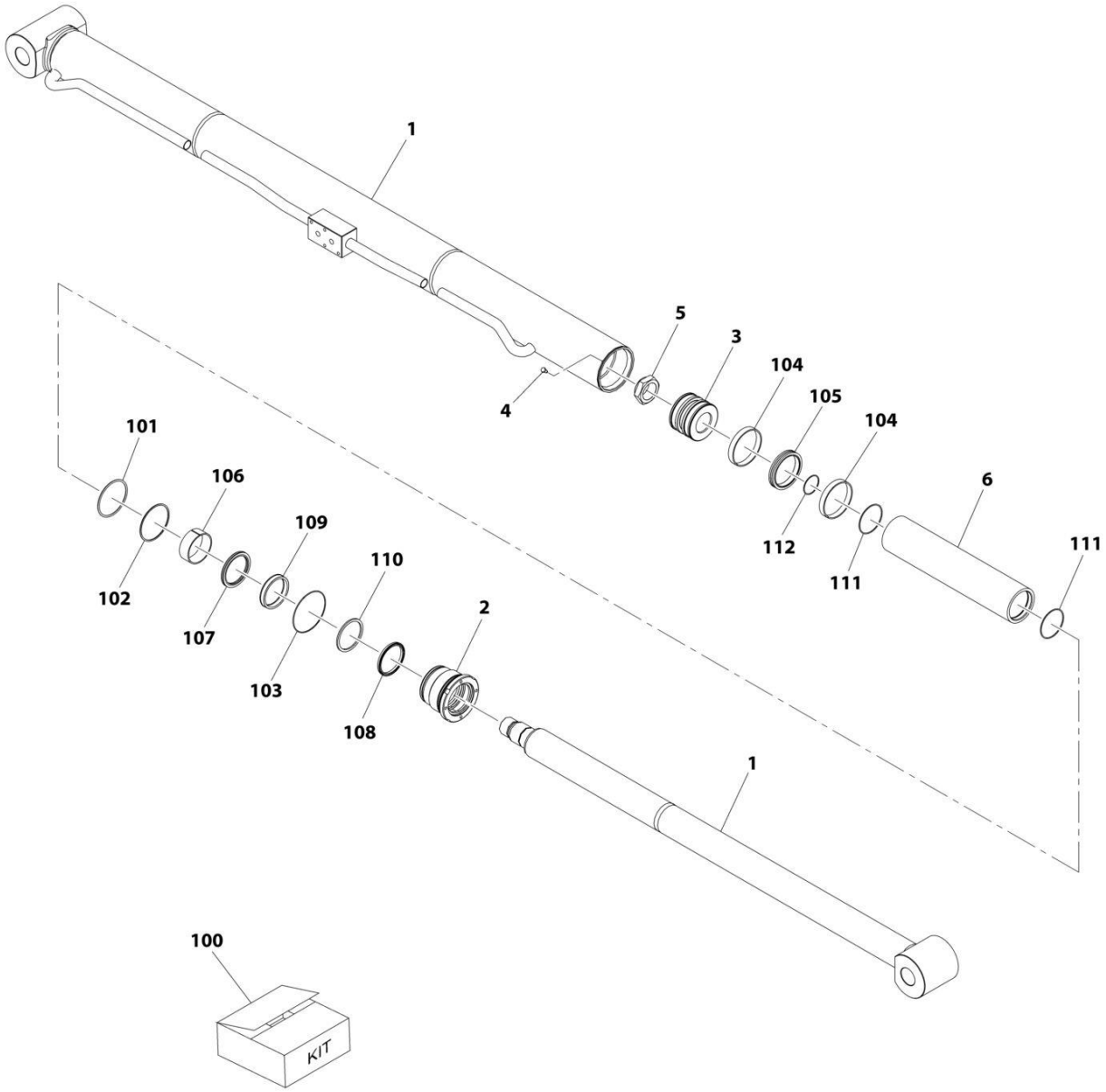
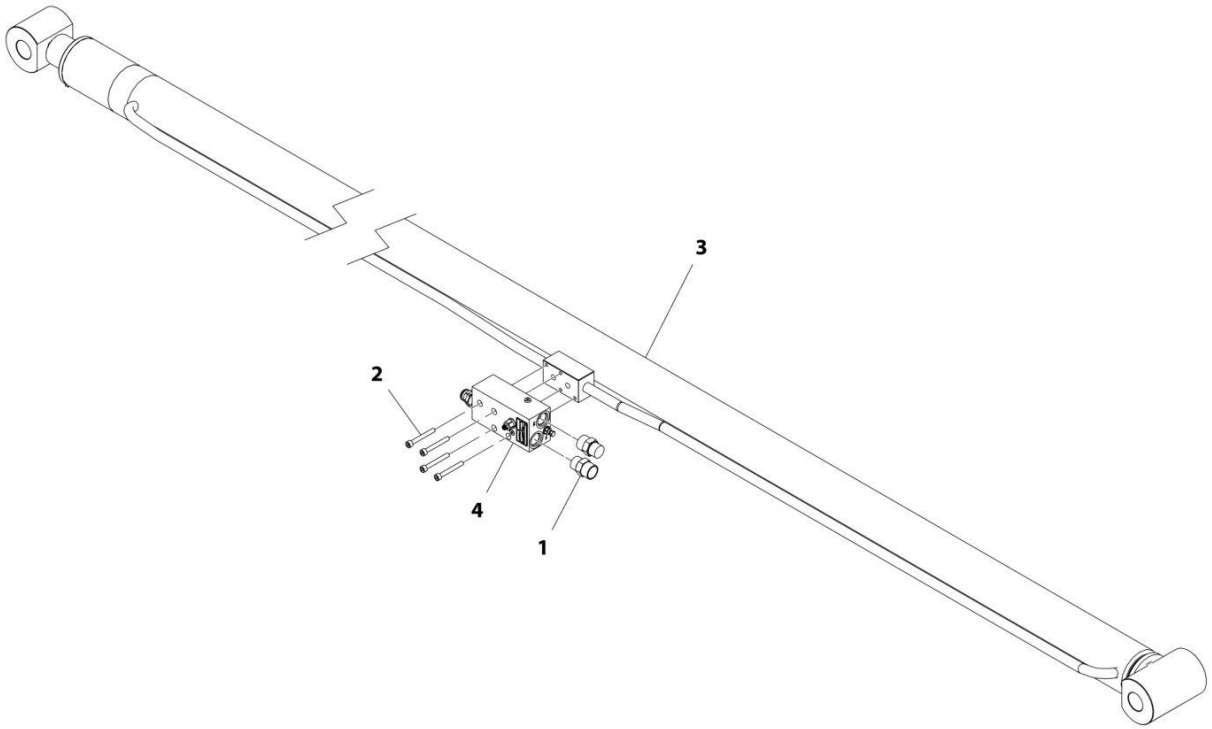


FIGURE 9-5. EXTEND/RETRACT CYLINDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228074	Ref	Extend/Retract Cylinder	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70029039	1	Rod Assembly	
2	70029040	1	Gland	
3	70029041	1	Piston	
4	1001125137	1	Screw, Self Tapping	
5	1001167576	1	Locknut	
6	1001168671	1	Sleeve, Spacer	
100	1001168668	1	Kit, Seal (includes items 101 thru 112)	
101	Kit	1	O-Ring	
102	Kit	1	O-Ring	
103	Kit	1	Back Up Ring	
104	Kit	2	Ring, Wear Piston	
105	Kit	1	Seal, Piston Cap-T	
106	Kit	1	Ring, Wear Head	
107	Kit	1	Seal, Rod Buffer	
108	Kit	1	Seal, Rod Wiper	
109	Kit	1	Seal, Rod Type B	
110	Kit	1	Back Up Ring	
111	Kit	2	O-Ring	
112	Kit	1	O-Ring	

FIGURE 9-6. EXTEND/RETRACT CYLINDER ASSEMBLY (Prior to SN 0160077503)

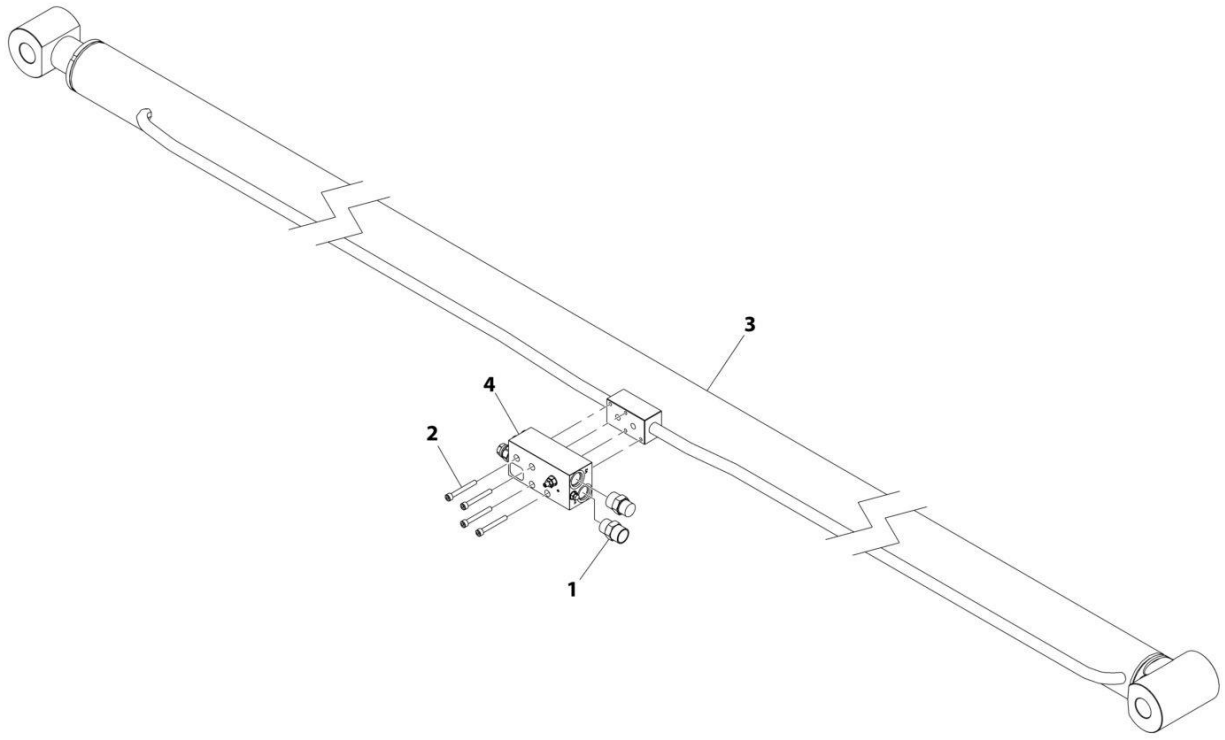


ART_1001175263-C

FIGURE 9-6. EXTEND/RETRACT CYLINDER ASSEMBLY (Prior to SN 0160077503)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175263	Ref	Extend/Retract Cylinder Assembly	C
1	2111212	2	Fitting, Straight ORFS	
2	4031917	4	Bolt, M8X65	
3	1001162686	1	Extend/Retract Cylinder, (See EXTEND/RETRACT CYLINDER for Breakdown)	
4	1001168598	1	Valve, Counterbalance	

FIGURE 9-7. EXTEND/RETRACT CYLINDER ASSEMBLY (SN 0160077503 to Present)



ART_1001218577-C

FIGURE 9-7. EXTEND/RETRACT CYLINDER ASSEMBLY (SN 0160077503 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218577	Ref	Extend/Retract Cylinder Assembly	C
1	2111212	2	Fitting, Straight ORFS	
2	4031917	4	Bolt, M8X65	
3	1001162686	1	Extend/Retract Cylinder (See Separate Breakdown in this Section) **(SN 0160084796 through 0160084896)**	
3	1001228074	1	Extend/Retract Cylinder (See Separate Breakdown in this Section) **(SN 0160084897 through 0160100493)**	
4	1001216522	1	Valve, Counterbalance **(SN 0160084796 through 0160084896)**	
4	1001231065	1	Valve, Counterbalance (includes 2 O-Ring) **(SN 0160084897 through 0160100493)**	

FIGURE 9-8. EXTEND/RETRACT CYLINDER ASSEMBLY (SN 0160084796 through 0160084896)

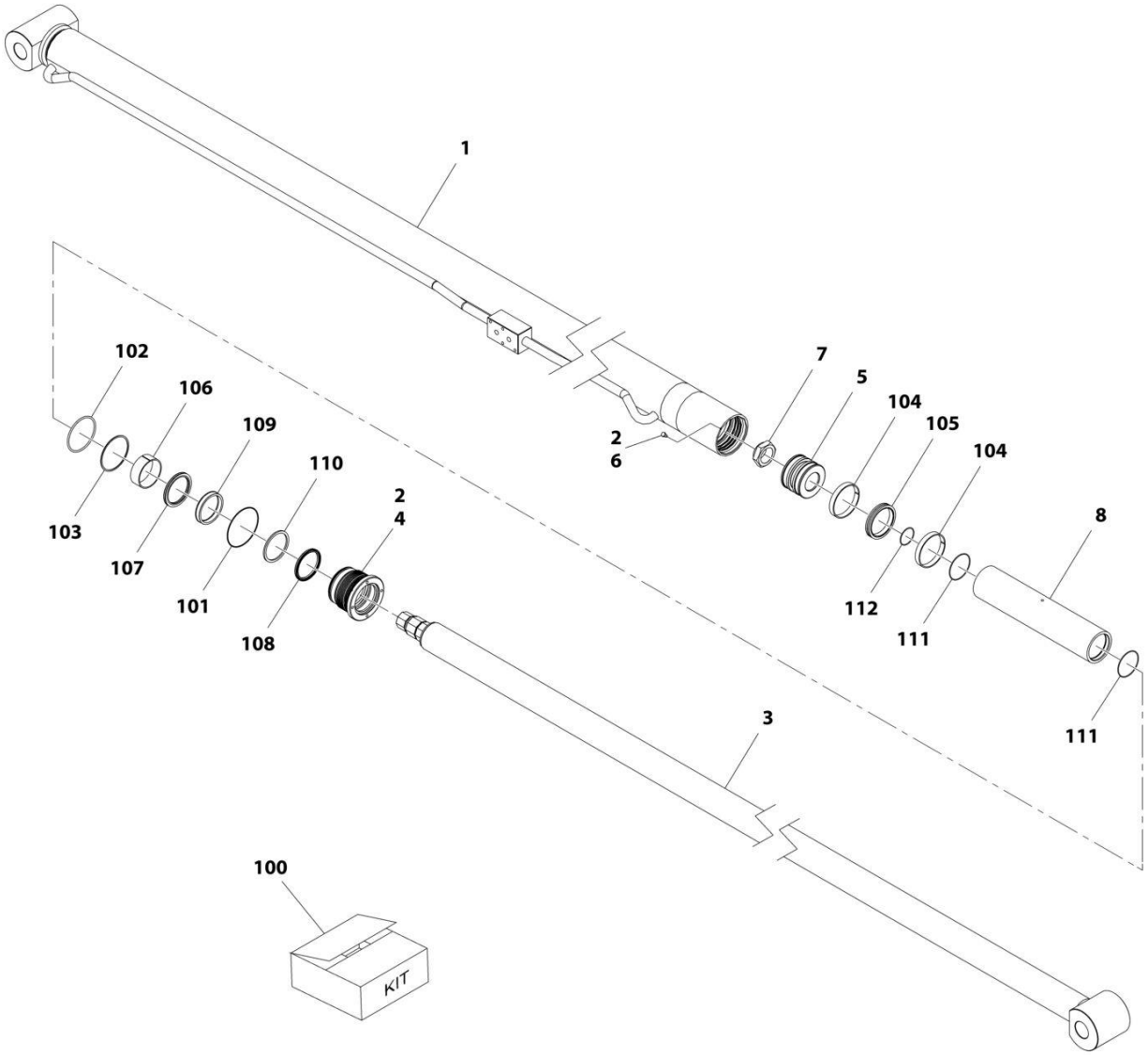


FIGURE 9-8. EXTEND/RETRACT CYLINDER ASSEMBLY (SN 0160084796 through 0160084896)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162686	Ref	Extend/Retract Cylinder	I
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	1001167549	1	Barrel	
2	3020043	AR	Lube, Anti-Seize	
3	1001167552	1	Rod	
4	1001167557	1	Head, Cylinder	
5	1001167555	1	Piston, Cylinder	
6	1001125137	1	Screw, Self Tapping	
7	1001167576	1	Nut, Lock	
8	1001168671	1	Sleeve, Spacer	
100	1001168668	1	Kit, Seal (includes items 101 thru 112)	
101	Kit	1	O-Ring	
102	Kit	1	O-Ring	
103	Kit	1	Ring, Back-up	
104	Kit	2	Ring, Wear Piston	
105	Kit	1	Seal, Piston Cap-T	
106	Kit	1	Ring, Wear Head	
107	Kit	1	Seal, Rod Buffer	
108	Kit	1	Seal, Rod Wiper	
109	Kit	1	Seal, Rod	
110	Kit	1	Ring, Back-up	
111	Kit	2	O-Ring	
112	Kit	1	O-Ring	

FIGURE 9-9. FRAME LEVEL AND OUTRIGGER VALVE

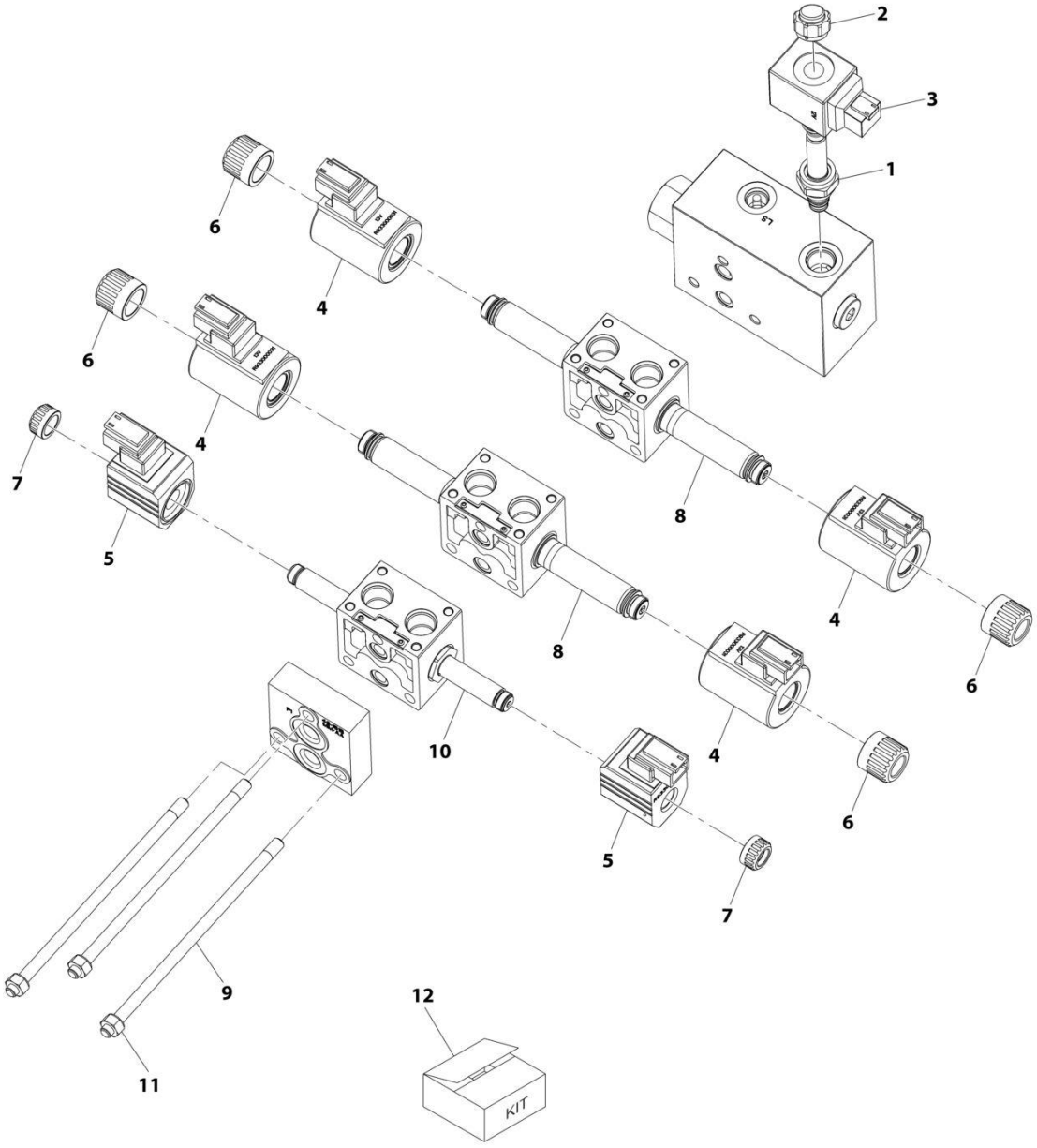


FIGURE 9-9. FRAME LEVEL AND OUTRIGGER VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157972	Ref	Valve, Frame Level and Outrigger	F
1	70023327	1	Solenoid	
2	70004654	1	Nut, Coil	
3	70022147	1	Coil	
4	70020868	4	Coil	
5	70021208	2	Coil	
6	70020867	4	Kit, Retainer, W/Seals	
7	70021209	2	Kit, Retainer, W/Seals	
8	70026568	2	Section, Outrigger Valve	
9	70026569	3	Rod, Tie	
10	70021213	1	Section, Frame Level	
11	70026570	3	Nut	
12	70026571	1	Kit, Seal	
	Kit	1	O-Ring	
	Kit	1	O-Ring	
	Kit	1	O-Ring	
	Kit	1	O-Ring	
	Kit	1	O-Ring	
	Kit	1	O-Ring	
	Kit	4	O-Ring	
	Kit	4	O-Ring	
	Kit	2	O-Ring	
	Kit	2	O-Ring	

FIGURE 9-10. FRAME LEVEL CYLINDER INSTALLATION

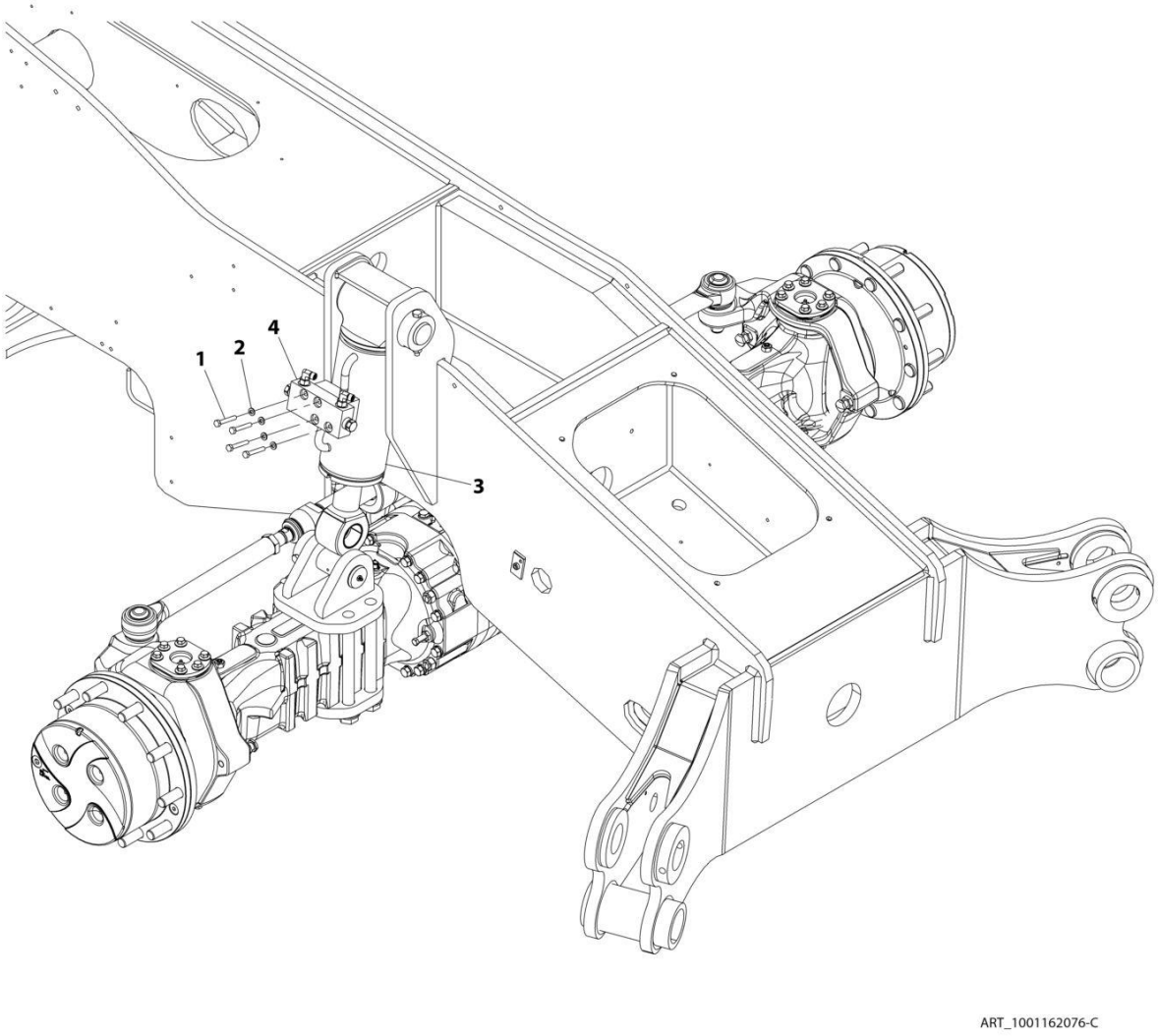


FIGURE 9-10. FRAME LEVEL CYLINDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162076	Ref	Frame Level Cylinder Installation	C
1	0700818	4	Bolt, M8X50	
2	4811900	4	Washer, M8	
3	1001179369	1	Cylinder, Frame Stability (See Separate Breakdown in this Section)	
4	1001168599	1	Valve, Counterbalance	

FIGURE 9-11. FRAME LEVEL CYLINDER

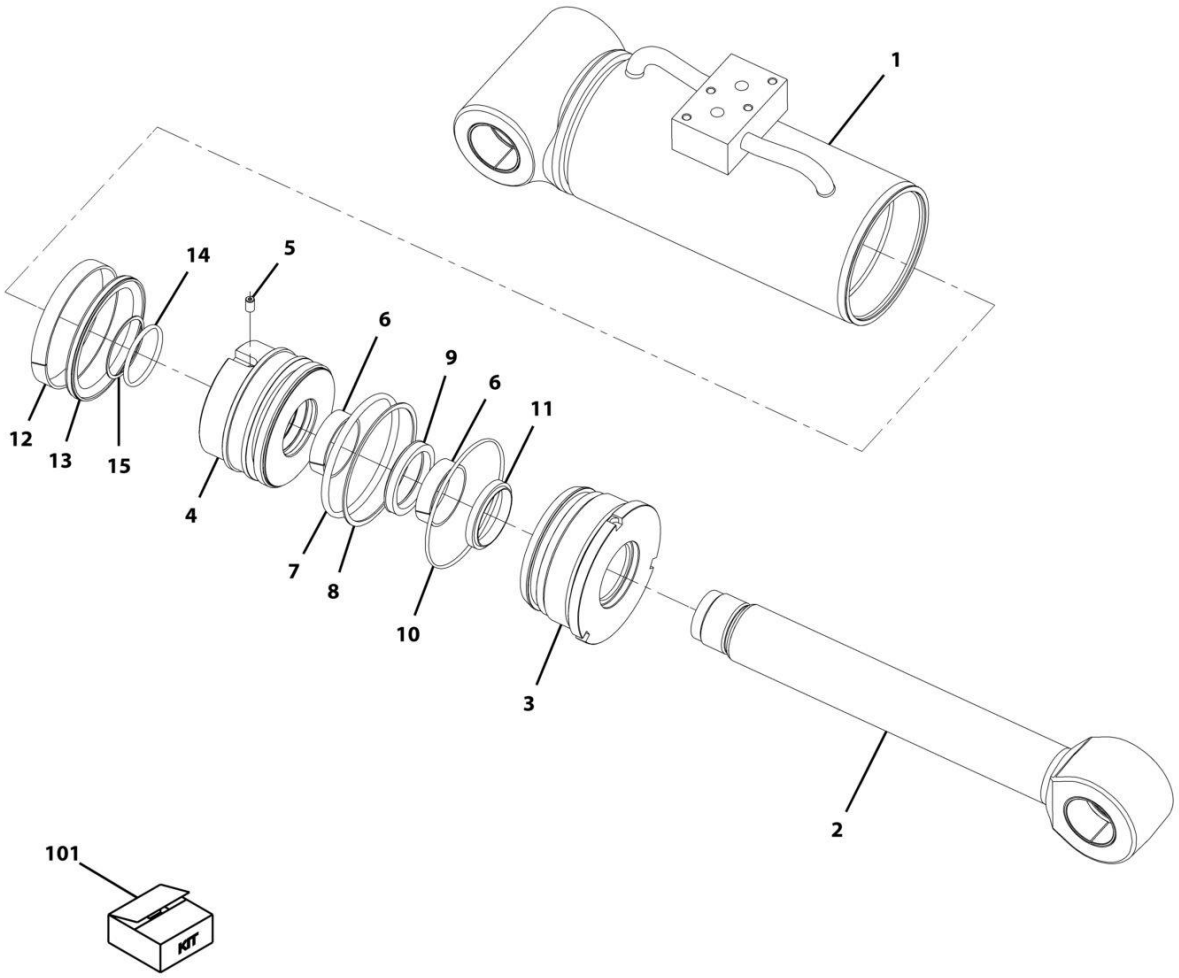


FIGURE 9-11. FRAME LEVEL CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179369	Ref	Frame Level Cylinder	A
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	70026435	1	Barrel	
2	70026436	1	Rod	
3	70026249	1	Guide, Rod	
4	70026251	1	Piston	
5	70020438	1	Screw	
6	Kit	2	Bearing	
7	Kit	1	O-Ring	
8	Kit	1	Ring, Backup	
9	Kit	1	Seal, Rod	
10	Kit	1	O-Ring	
11	Kit	1	Wiper	
12	Kit	1	Bearing	
13	Kit	1	Seal, Piston	
14	Kit	1	O-Ring	
15	Kit	2	Ring, Backup	
101	70026253	1	Kit, Seal (includes items 6 thru 15)	

FIGURE 9-12. FRAME LEVEL VALVE

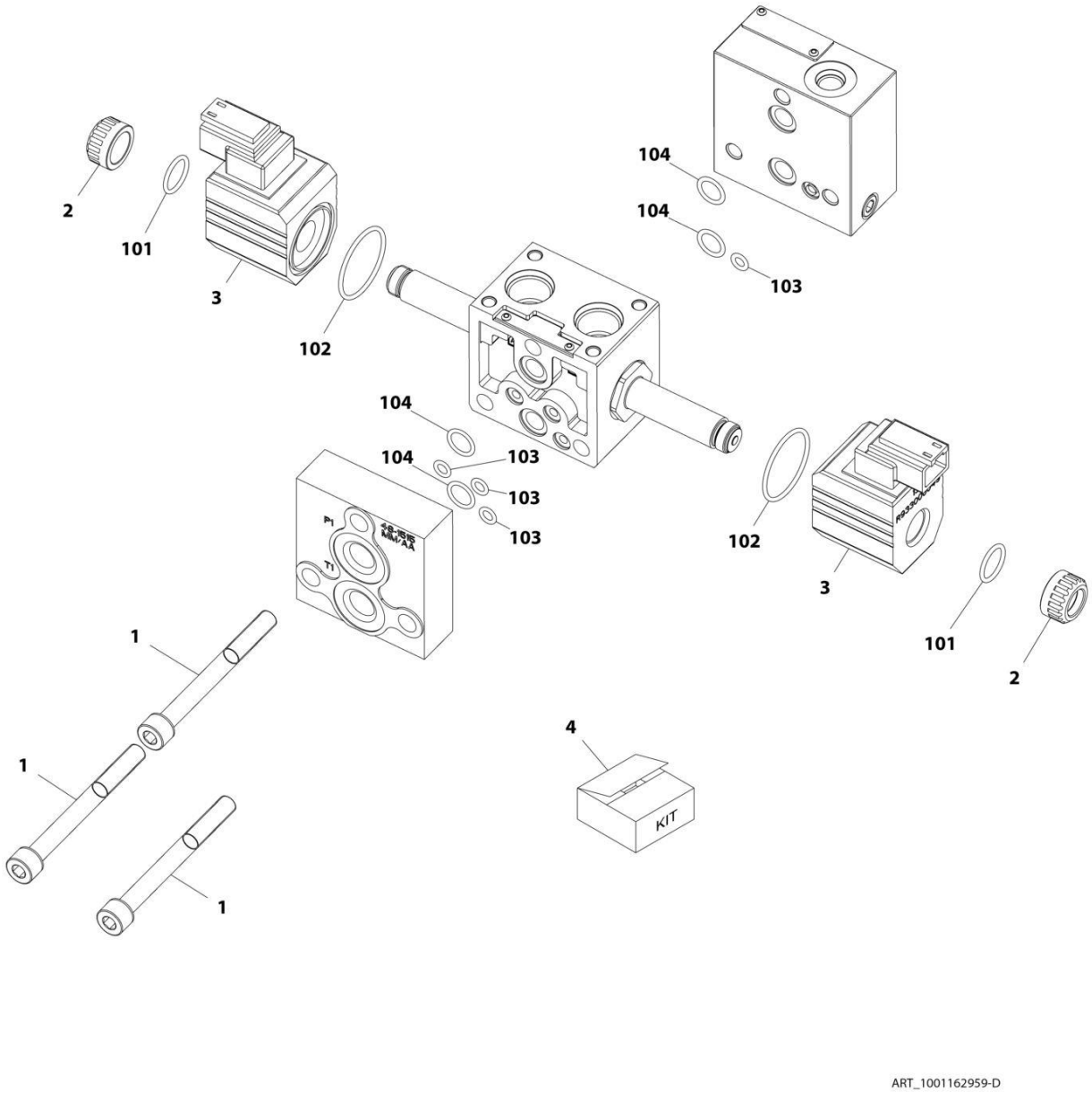


FIGURE 9-12. FRAME LEVEL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162959	Ref	Frame Level Valve	D
1	70026685	3	Screw	
2	70021209	2	Retainer	
3	70021208	2	Coil	
4	70026686	1	Kit, Seal (includes items 101 thru 104)	
101	Kit	2	O-Ring	
102	Kit	2	O-Ring	
103	Kit	4	O-Ring	
104	Kit	4	O-Ring	

FIGURE 9-13. FORK POSITIONING CYLINDER

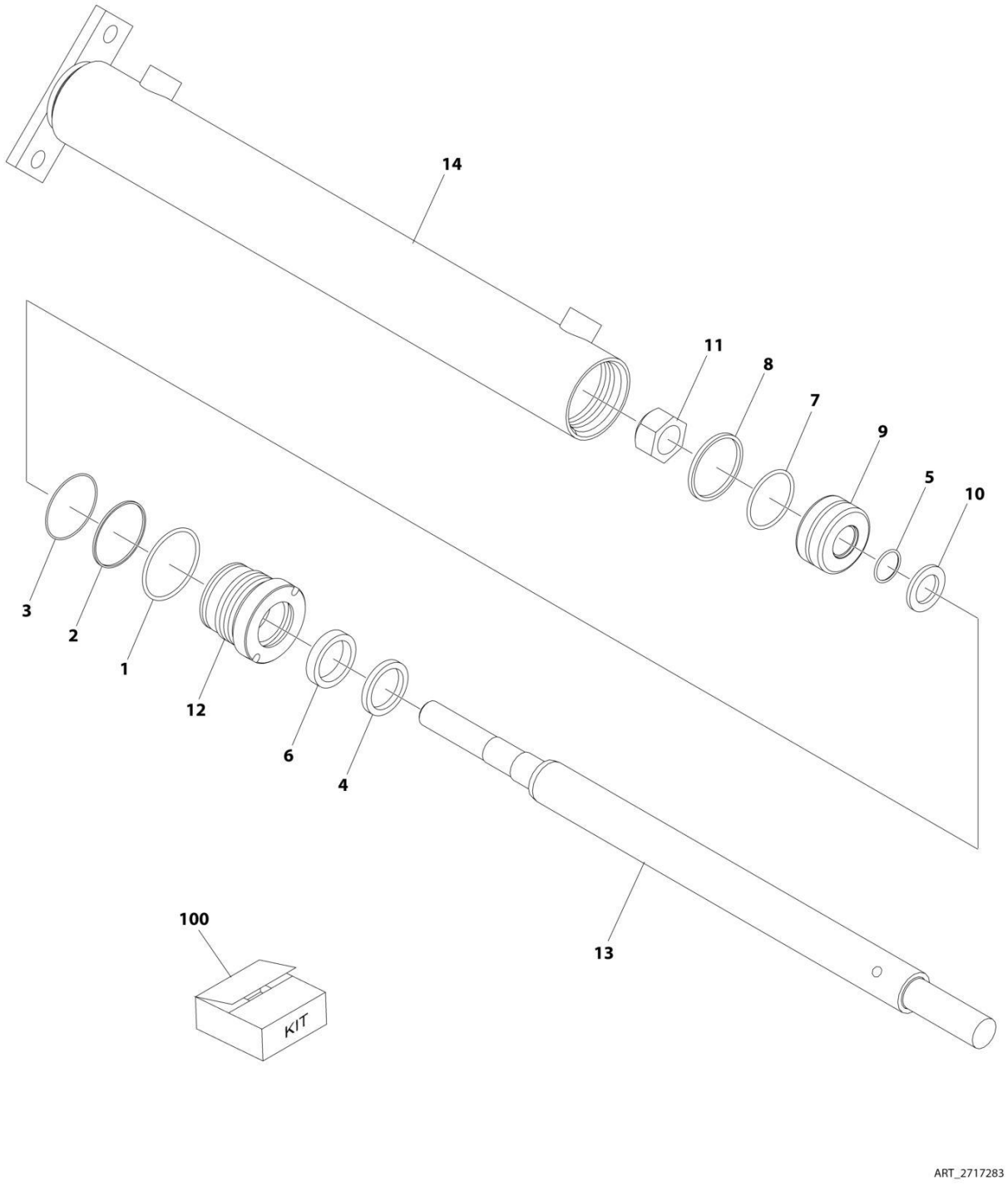


FIGURE 9-13. FORK POSITIONING CYLINDER

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

FIGURE 9-14. GEAR PUMP

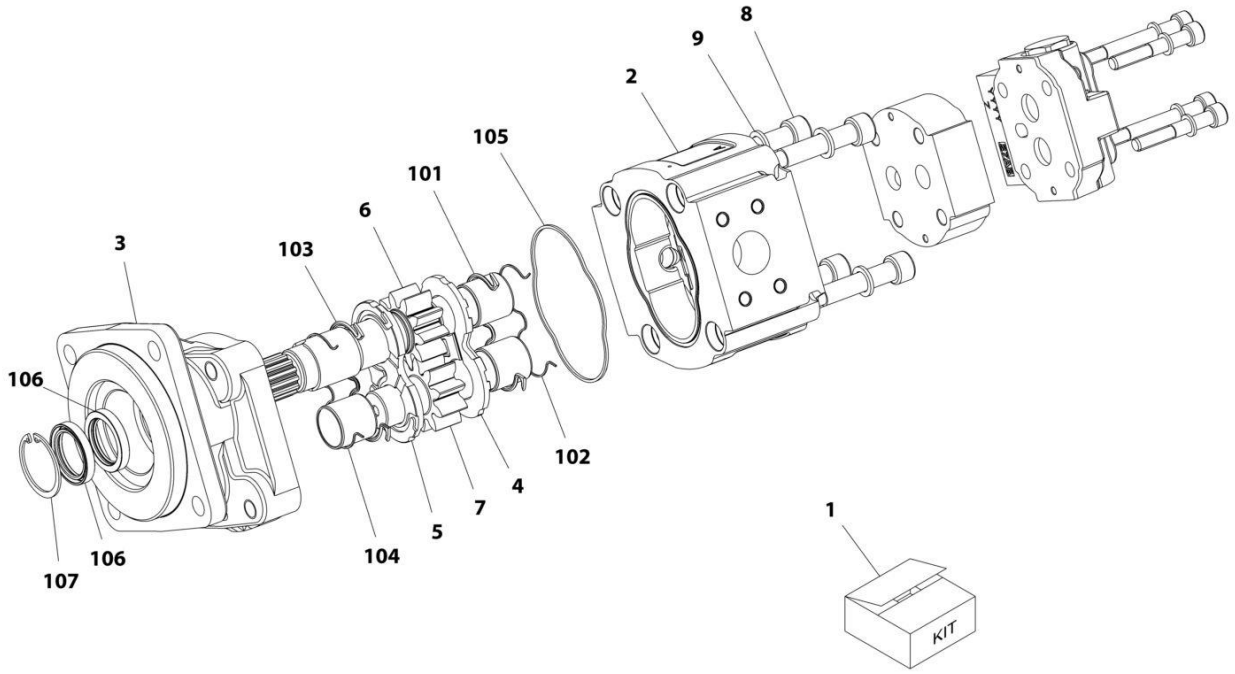


FIGURE 9-14. GEAR PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163746	Ref	Gear Pump	A
1	70026567	1	Kit, Seal (includes items 101 thru 107)	
2	70026507	1	Housing, Pump	
3	70026508	1	Cover, Front	
4	70026509	1	Plate, Thrust	
5	70026566	1	Plate, Thrust Upper	
6	70026511	1	Shaft, Drive	
7	70026512	1	Shaft, Driven	
8	70026513	4	Bolt M14X100	
9	70026493	4	Washer	
101	Kit	1	Seal	
102	Kit	1	Ring	
103	Kit	1	Seal, Upper	
104	Kit	1	Ring	
105	Kit	1	Seal	
106	Kit	2	Seal	
107	Kit	1	Ring	

FIGURE 9-15. GRAPPLE BUCKET CYLINDER

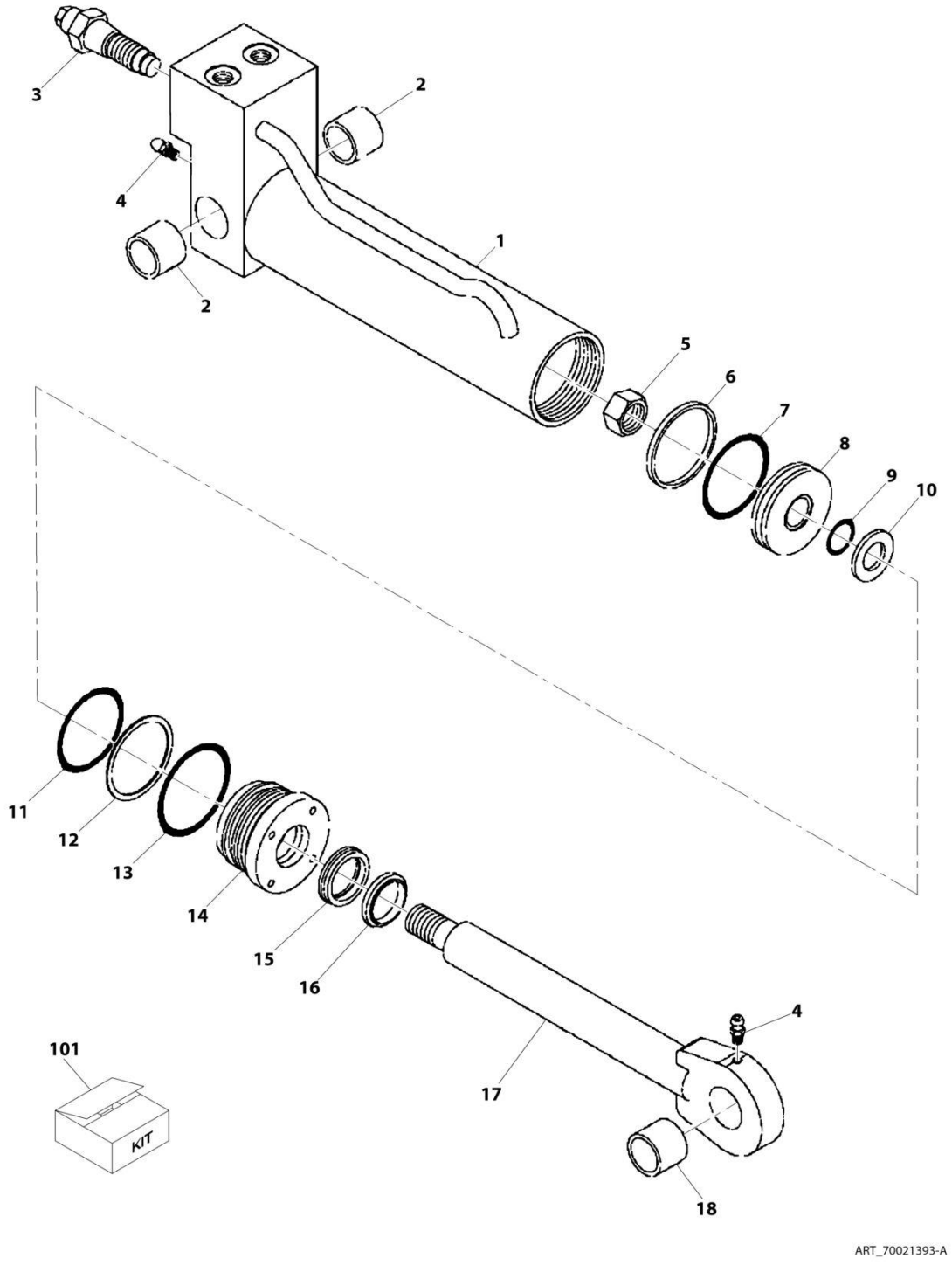


FIGURE 9-15. GRAPPLE BUCKET CYLINDER

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

FIGURE 9-16. HYDRAULIC FILTER

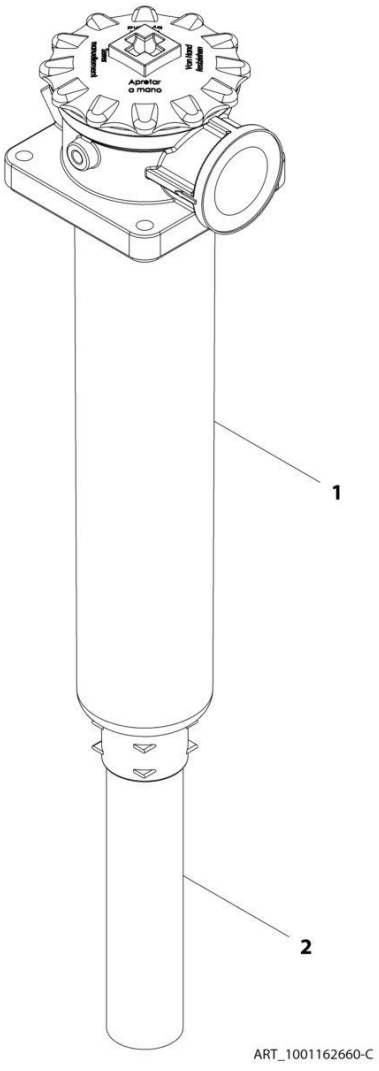


FIGURE 9-16. HYDRAULIC FILTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162660	Ref	Hydraulic Filter	C
1	1001162661	1	Filter	
	1001162663	1	Element, Filter	
2	1001162667	1	Pipe, Filter Return	

FIGURE 9-17. LIFT CYLINDER

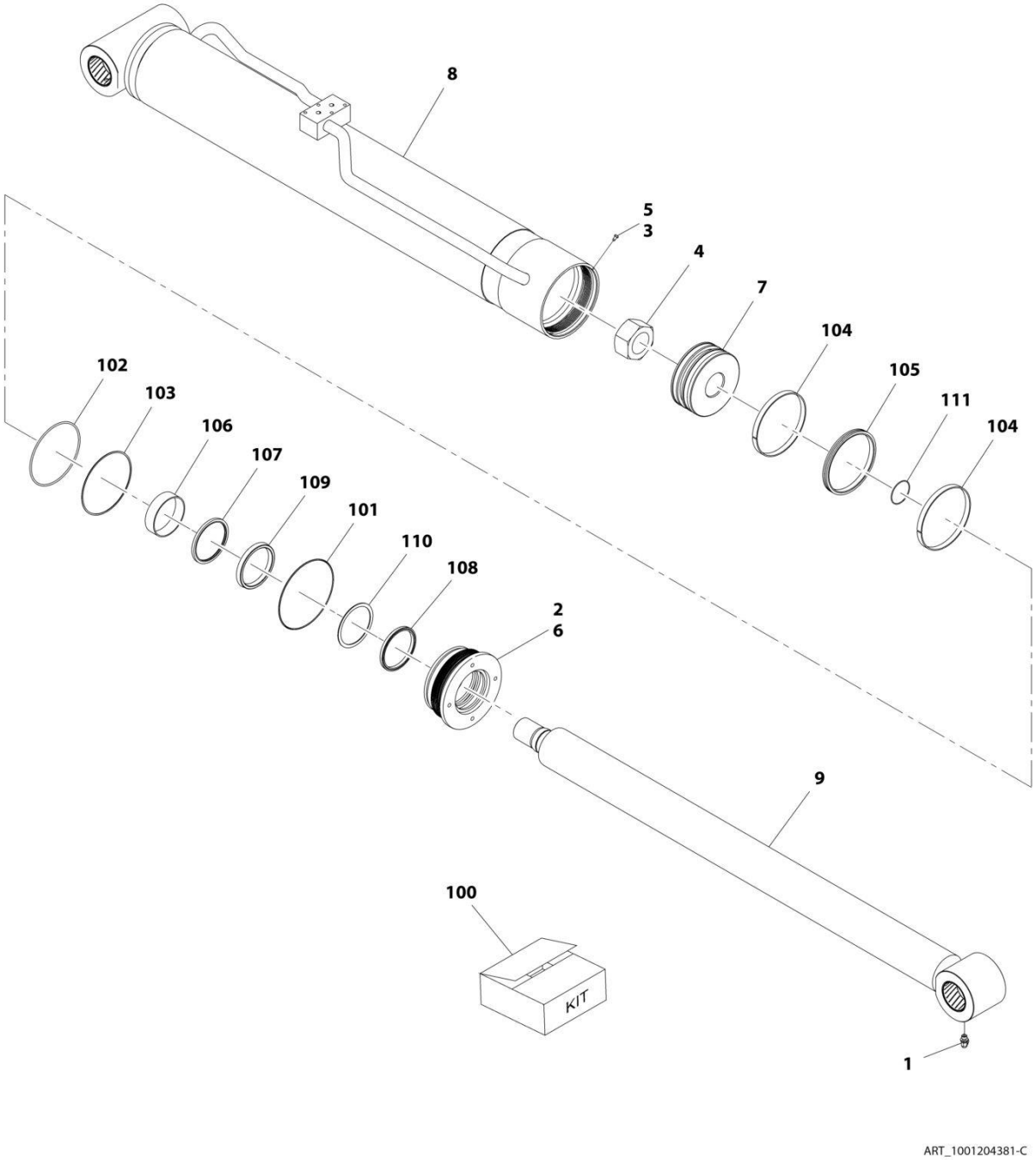


FIGURE 9-17. LIFT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001204381	Ref	Lift Cylinder (no longer available, use items 1 thru 100 for service or 1001228096 for replacement)	C
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	8770215	1	Fitting, 90	
2	3020043	AR	Lube, Anti-Seize	
3	0100011	AR	Compound, Locking	
4	1001122453	1	Nut, Lock	
5	1001125137	1	Screw, Self Tapping	
6	1001197699	1	Head	
7	1001197700	1	Piston	
8	1001197695	1	Barrel	
9	1001204379	1	Rod	
100	1001197918	1	Kit, Seal (includes items 101 thru 111)	
101	Kit	1	O-Ring	
102	Kit	1	O-Ring	
103	Kit	1	Ring, Backup	
104	Kit	1	Ring, Wear	
105	Kit	1	Seal	
106	Kit	1	Ring, Wear	
107	Kit	1	Seal, Buffer	
108	Kit	1	Seal, Wiper	
109	Kit	1	Seal	
110	Kit	1	Ring, Backup	
111	Kit	1	O-Ring	

FIGURE 9-18. LIFT CYLINDER

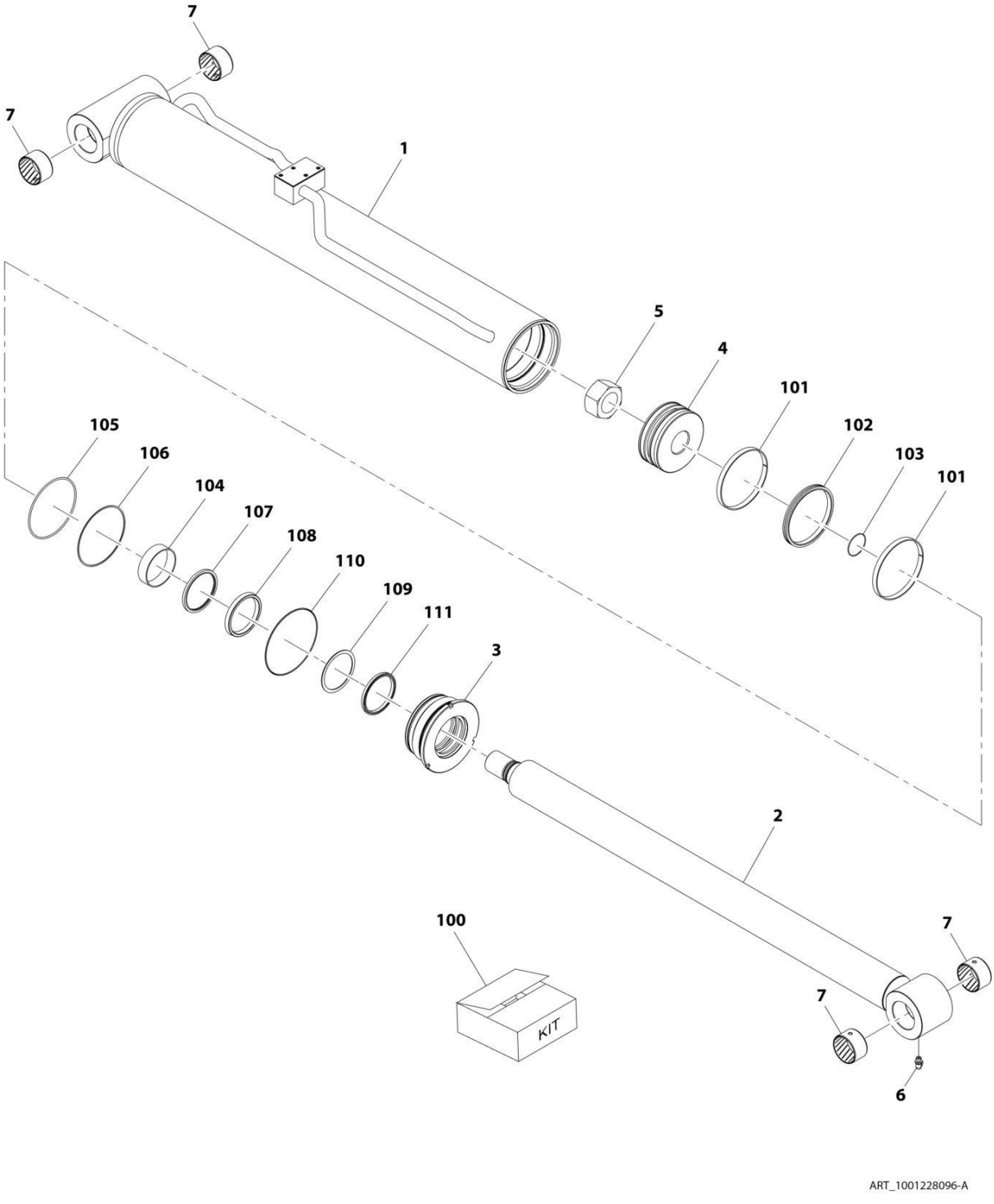


FIGURE 9-18. LIFT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228096	Ref	Lift Cylinder	A
1	N.S.S.	1	Barrel	
2	70028990	1	Rod	
3	70028991	1	Head	
4	70028992	1	Piston	
5	1001122453	1	Nut, Lock	
6	8770215	1	Fitting, 90	
7	1001170138	4	Bush Bearing	
100	1001197918	1	Kit, Seal (includes items 101 thru 111)	
101	Kit	2	Bearing	
102	Kit	1	Piston Seal	
103	Kit	1	O-Ring	
104	Kit	1	O-Ring	
105	Kit	1	Ring, Backup	
106	Kit	1	Bearing	
107	Kit	1	Buffer	
108	Kit	1	Rod Seal	
109	Kit	1	Ring, Backup	
110	Kit	1	O-Ring	
111	Kit	1	Wiper	

FIGURE 9-19. MAIN CONTROL VALVE

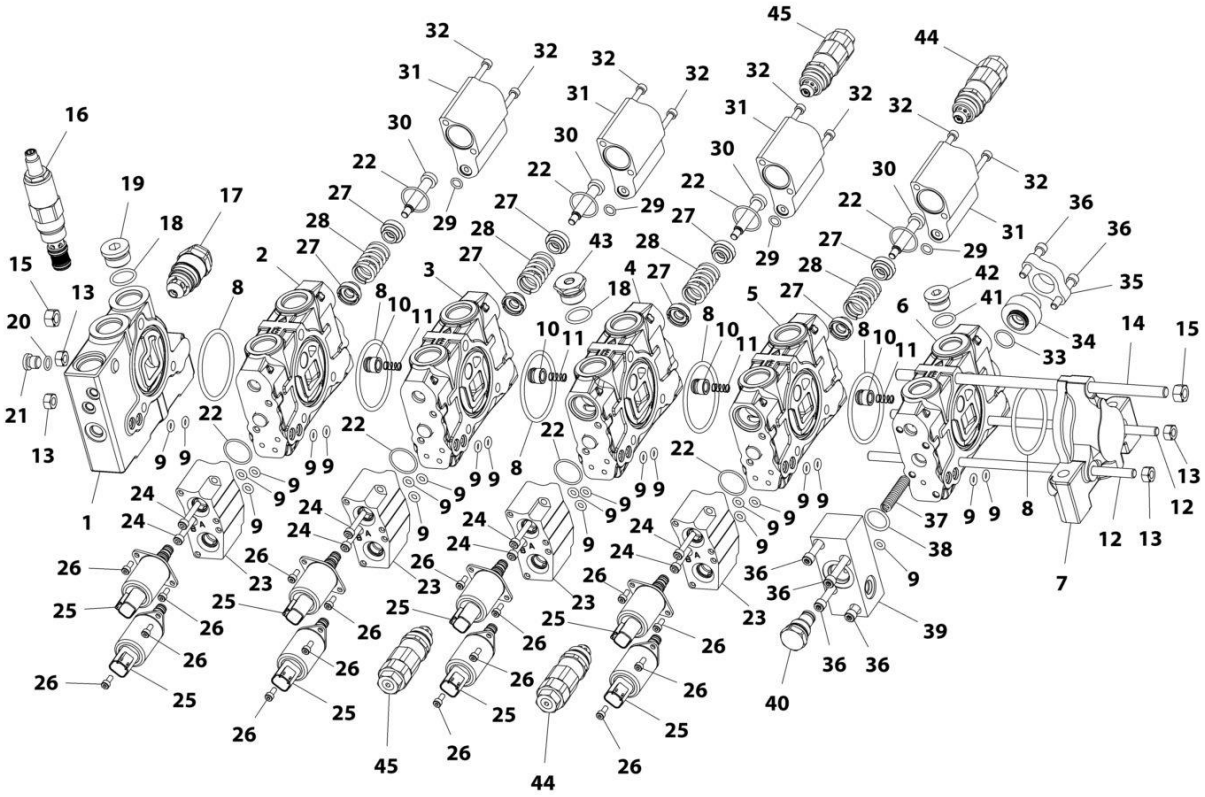


FIGURE 9-19. MAIN CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166765	1	Main Control Valve	C
1	70026640	1	Section, Inlet	
2	70026641	1	Section, Spool	
3	70026642	1	Section, Spool	
4	70026643	1	Section, Spool	
5	70026644	1	Section, Spool	
6	70026645	1	Section, Spool	
7	70026646	1	Section, Outlet	
8	10837923	6	O-Ring	
9	70026647	25	O-Ring	
10	10837929	4	Poppet	
11	10837937	4	Spring	
12	70026648	2	Rod, Tie	
13	8035348	4	Nut	
14	70026649	1	Rod, Tie	
15	8035346	2	Nut	
16	70026650	1	Valve	
17	70026651	1	Valve	
18	70026652	2	O-Ring	
19	70026653	1	Plug	
20	70026654	1	O-Ring	
21	70026655	1	Plug	
22	70026656	8	O-Ring	
23	70026657	4	Solenoid	
24	70026658	8	Screw	
25	70026659	8	Solenoid	
26	70022014	16	Bolt	
27	70026660	8	Spring, Seat	
28	70026661	4	Spring	
29	70026662	4	O-Ring	
30	70026663	4	Spool	
31	70026664	4	Cap, End	
32	70026665	8	Screw	
33	70026666	1	O-Ring	
34	70026667	1	Spool, Cap	
35	8035373	1	Plate, Seal	
36	8037088	6	Screw	
37	70026668	1	Spring	
38	70026669	1	O-Ring	
39	70026670	1	Cap, End	
40	70026671	1	Regulator, Drain	
41	70026672	1	O-Ring	
42	8035382	1	Plug	
43	70026673	1	Plug	
44	70026674	2	Valve	
45	70026675	2	Valve	

FIGURE 9-20. PARK BRAKE VALVE

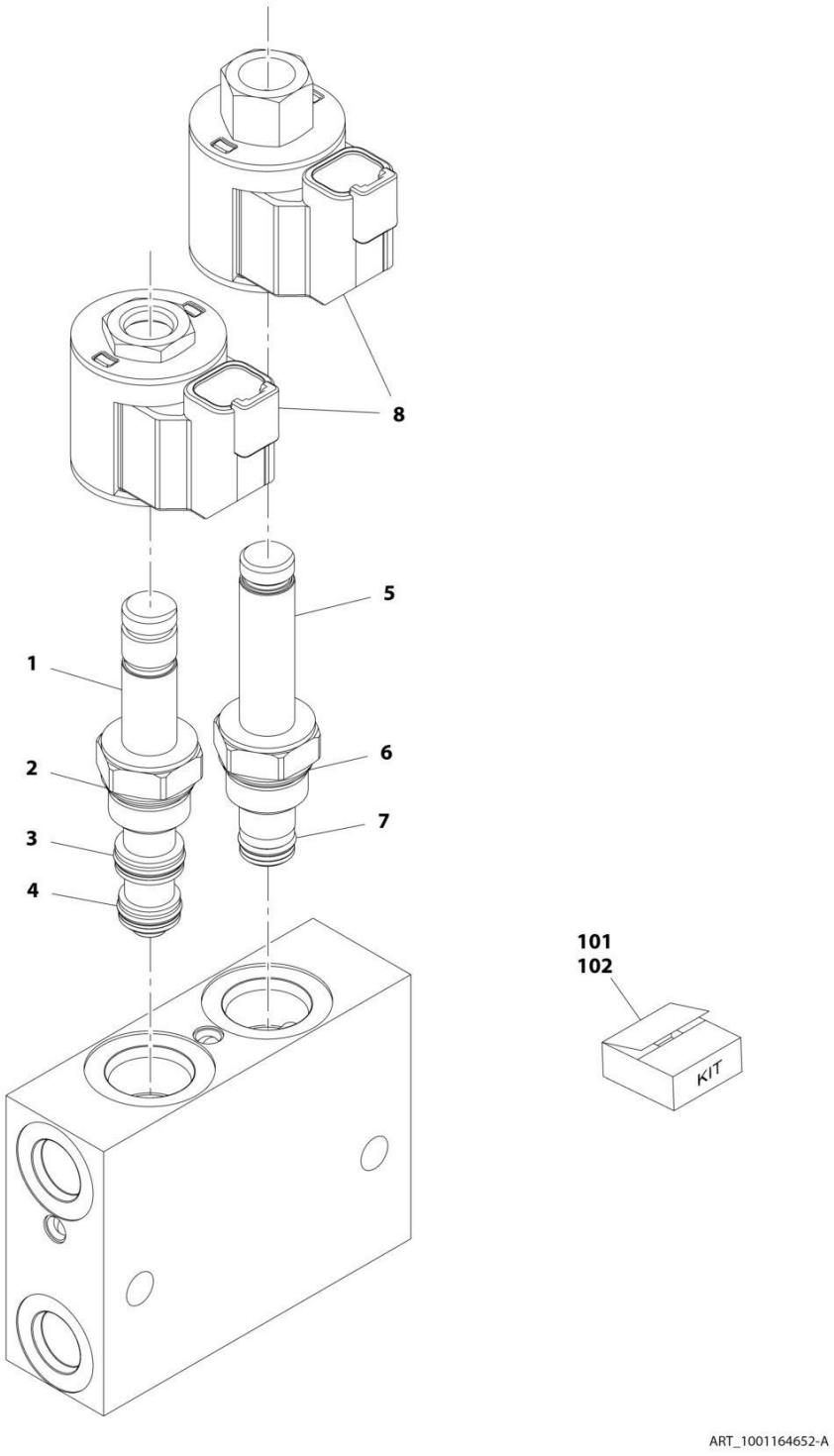


FIGURE 9-20. PARK BRAKE VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001164652	1	Park Brake Valve	A
1	7012941	1	Valve	
2	Kit	1	O-Ring	
3	Kit	1	O-Ring	
4	Kit	1	O-Ring	
5	7017410	1	Valve	
6	Kit	1	O-Ring	
7	Kit	1	O-Ring	
8	70002386	2	Coil	
101	7010543	1	Kit, Seal (includes items 2 thru 4)	
102	7012967	1	Kit, Seal (includes items 6 thru 7)	

FIGURE 9-21. OUTRIGGER CYLINDER (SN 0160078786 to Present)

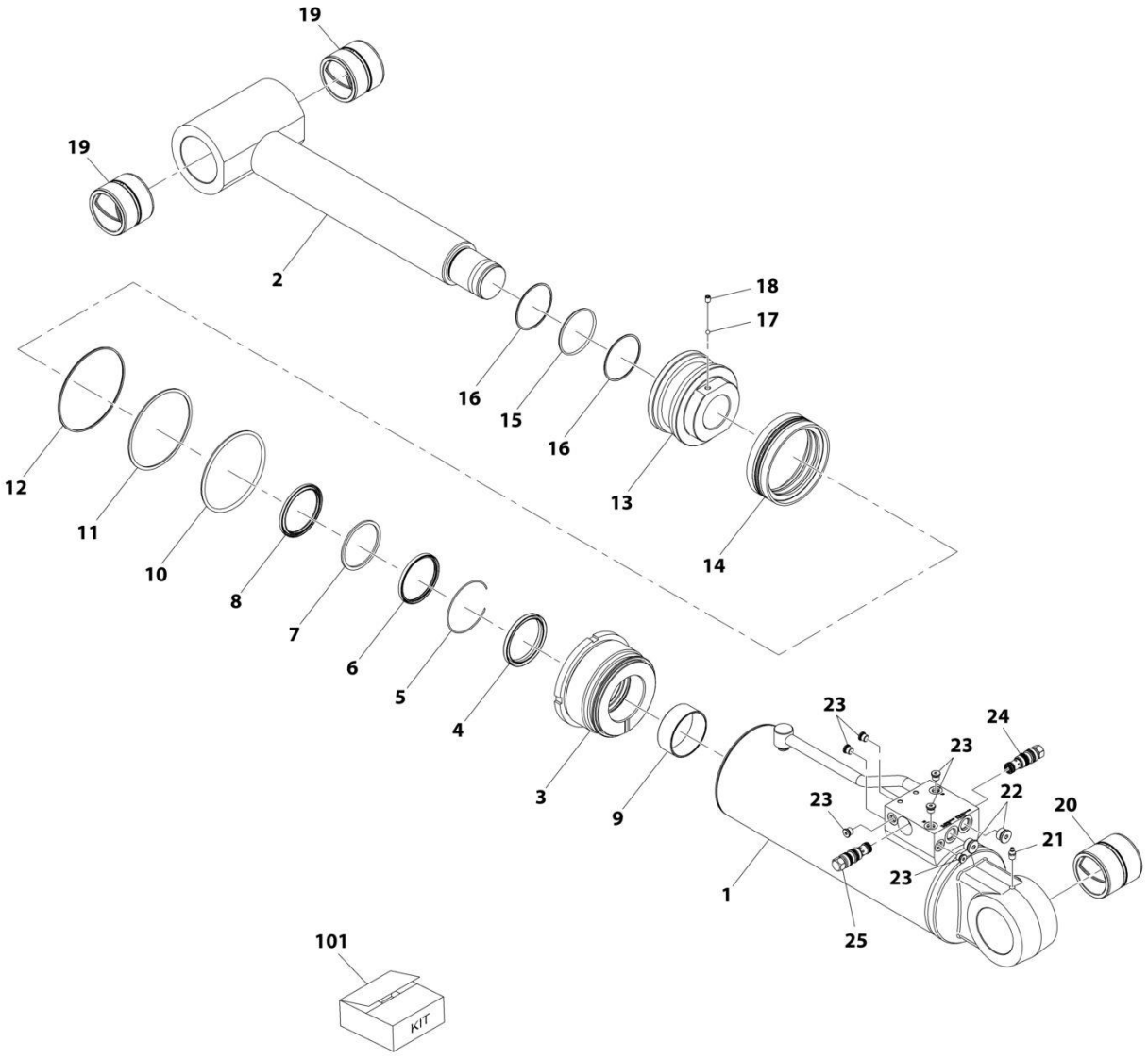


FIGURE 9-21. OUTRIGGER CYLINDER (SN 0160078786 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001213065	Ref	Outrigger Cylinder	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70027758	1	Tube Assembly	
2	70026300	1	Rod Assembly	
3	70026301	1	Gland	
4	Kit	1	Dust Wiper	
5	70023379	1	Retain Ring	
6	Kit	1	Rod Seal	
7	Kit	1	Back-up Ring	
8	Kit	1	Buffer Ring	
9	70026302	1	Dry Bearing	
10	Kit	1	O-ring	
11	Kit	1	Back-up Ring	
12	Kit	1	O-ring	
13	70026303	1	Piston	
14	Kit	1	Piston Seal	
15	Kit	1	O-ring	
16	Kit	2	Back-up Ring	
17	70022564	1	Steel Ball	
18	70023369	1	Set Screw	
19	70026304	2	Pin Bush	
20	70026305	1	Pin Bush	
21	70026308	1	Grease Nipple	
22	2220886	2	Hex Soc. Plug	
23	2220883	6	Hex Soc. Plug	
24	1001214653	1	Counter Balance Valve	
25	1001214654	1	Counter Balance Valve	
101	70026309	1	Kit, Seal (includes items 4, 6, 7, 8, 10, 11, 12 & 14 thru 16)	

FIGURE 9-22. OUTRIGGER CYLINDER (Prior to SN 0160078786)

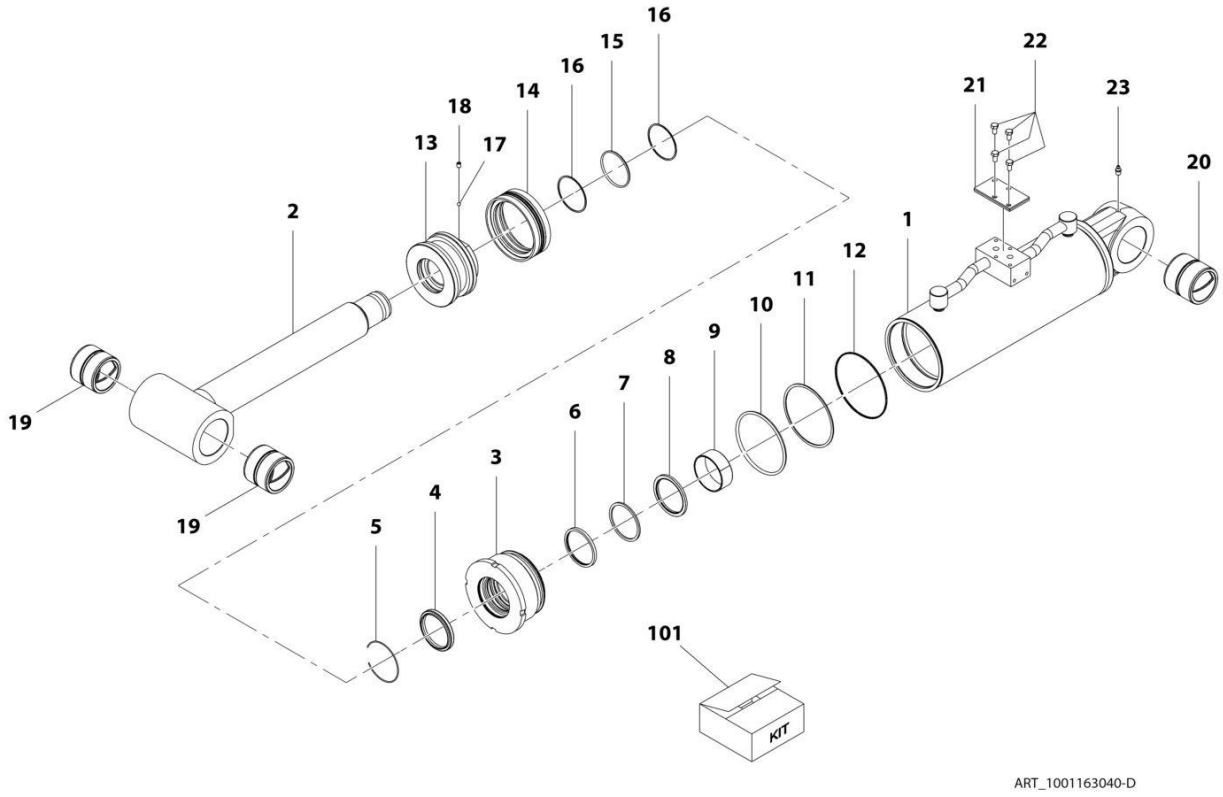


FIGURE 9-22. OUTRIGGER CYLINDER (Prior to SN 0160078786)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163040	Ref	Outrigger Cylinder	D
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	70026299	1	Barrel	
2	70026300	1	Rod	
3	70026301	1	Gland	
4	Kit	1	Wiper, Dust	
5	70023379	1	Ring, Retaining	
6	Kit	1	Seal, Rod	
7	Kit	1	Ring, Back-Up	
8	Kit	1	Ring, Buffer	
9	70026302	1	Bearing, Dry	
10	Kit	1	O-Ring	
11	Kit	1	Ring, Back-up	
12	Kit	1	O-Ring	
13	70026303	1	Piston	
14	Kit	1	Seal, Piston	
15	Kit	1	O-Ring	
16	Kit	2	Ring, Back-Up	
17	70022564	1	Ball, Steel	
18	70023369	1	Screw, Set	
19	70026304	2	Pin	
20	70026305	1	Pin	
21	70026306	1	Cover, Dust	
22	70026307	4	Bolt	
23	70026308	1	Fitting, Grease	
101	70026309	1	Kit, Seal (includes items 4, 6 thru 8, 10 thru 12, 14 thru 16)	

FIGURE 9-23. QUICK COUPLER CYLINDER

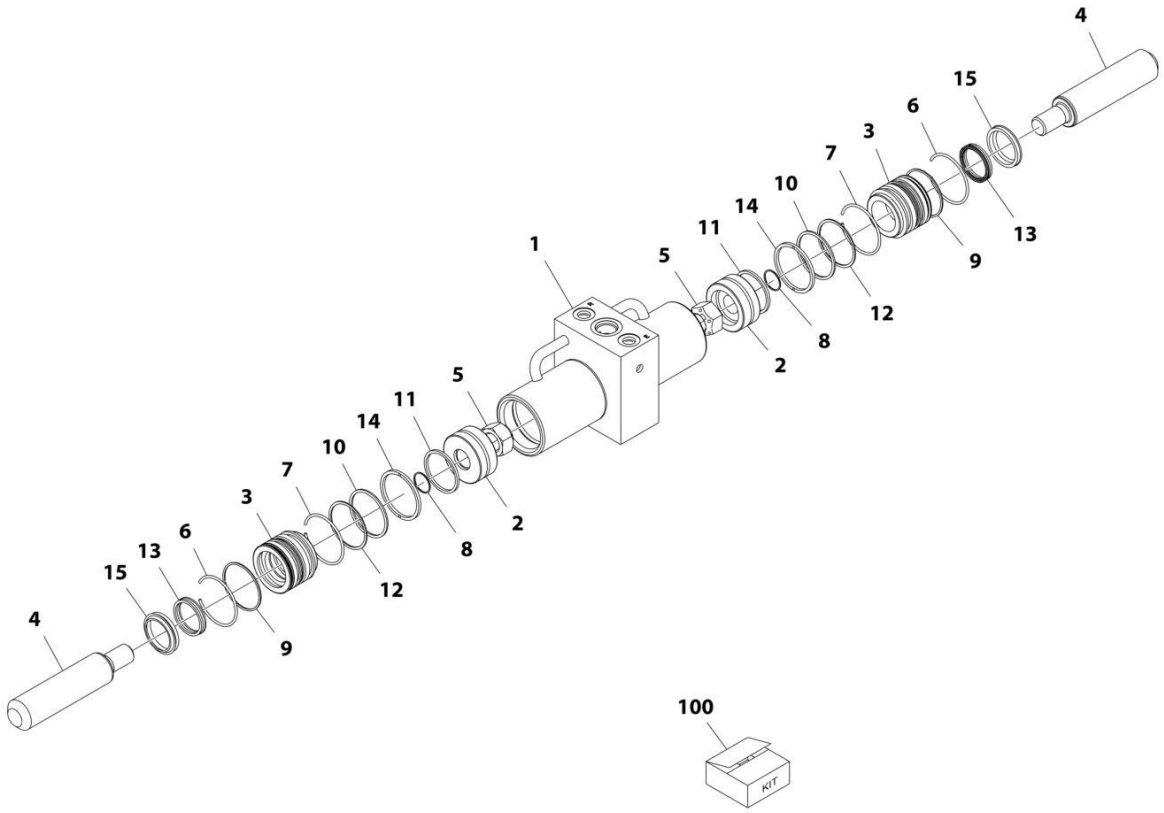


FIGURE 9-23. QUICK COUPLER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120163	Ref	Quick Coupler Cylinder	D
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70026211	1	Barrel	
2	70026212	2	Piston	
3	70026213	2	Head Gland	
4	70026214	2	Cylinder Rod	
5	8037140	2	Locknut	
6	Kit	2	Round Retaining Ring	
7	Kit	2	Round Retaining Ring	
8	Kit	2	O-Ring	
9	Kit	2	O-Ring	
10	Kit	2	O-Ring	
11	Kit	2	Square Ring	
12	Kit	2	Backup Ring	
13	Kit	2	Rod Seal	
14	Kit	2	Piston Seal	
15	Kit	2	Rod Wiper	
100	70026215	1	Seal Kit (includes items 6 thru 15)	

FIGURE 9-24. REAR AXLE STABILIZER CYLINDER INSTALLATION

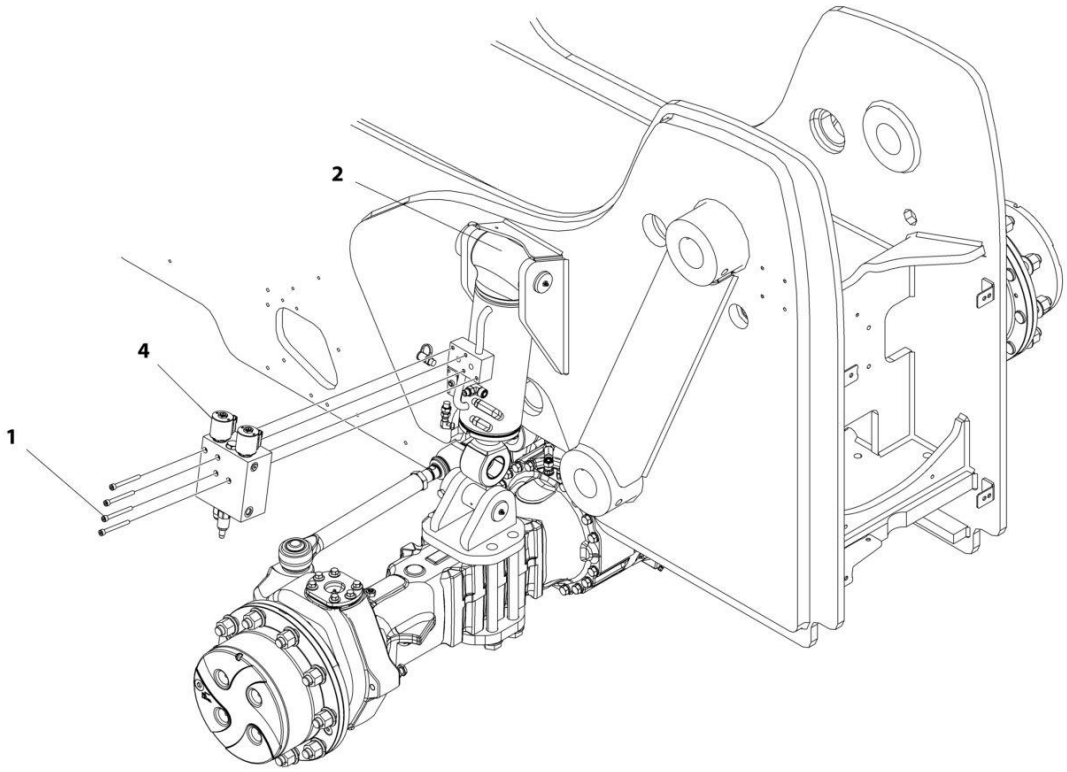


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FIGURE 9-24. REAR AXLE STABILIZER CYLINDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001164036	Ref	Rear Axle Stabilizer Cylinder Installation	E
1	4031920	4	Screw, M8X1.25	
2	1001158620	1	Cylinder, Frame Stability (See Separate Breakdown in HYDRAULC COMPONENTS Section)	
4	1001197600	Ref	Valve (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	

FIGURE 9-25. REAR AXLE STABILITY CYLINDER

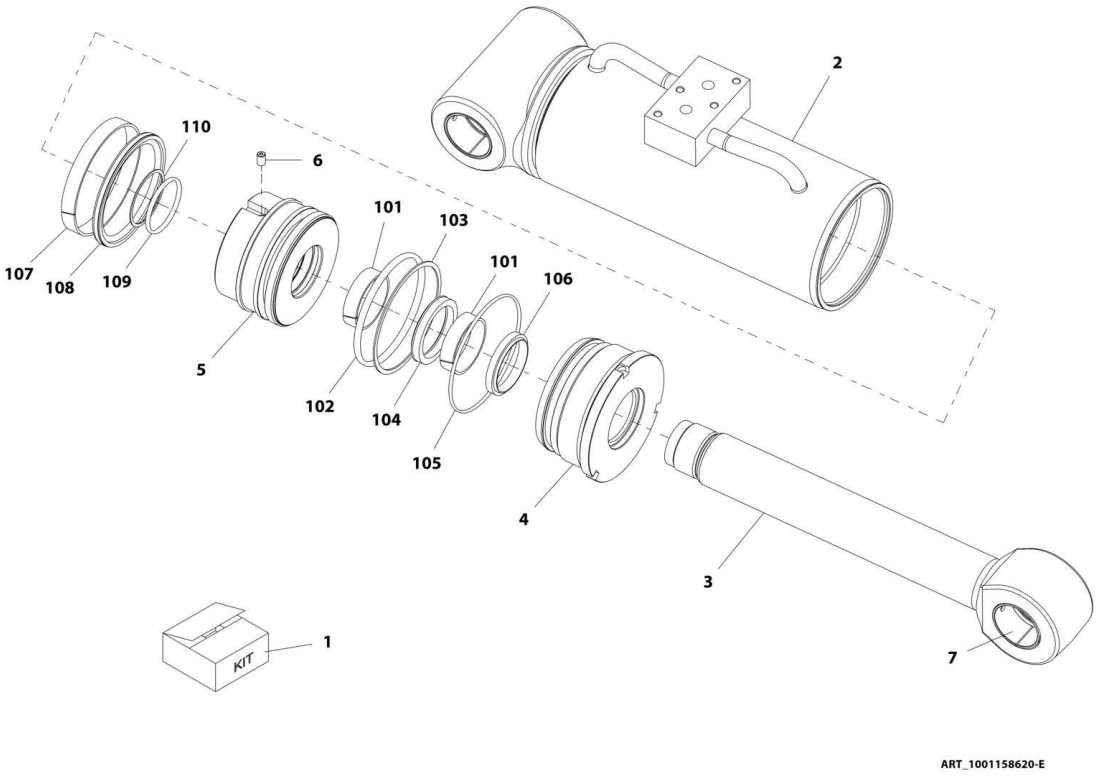


FIGURE 9-25. REAR AXLE STABILITY CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158620	Ref	Rear Axle Stability Cylinder	E
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
2	70026250	1	Barrel	
3	70026252	1	Rod	
4	70026249	1	Rod, Guide	
5	70026251	1	Piston	
6	70020438	1	Screw	
7	70020476	1	Bushing	
1	70026253	1	Kit, Seal (includes items 101 thru 110)	
101	Kit	2	Bearing	
102	Kit	1	O-Ring	
103	Kit	1	Ring, Back-Up	
104	Kit	1	Seal, Rod	
105	Kit	1	O-Ring	
106	Kit	1	Wiper	
107	Kit	1	Bearing	
108	Kit	1	Seal, Piston	
109	Kit	1	O-Ring	
110	Kit	1	Ring, Back-Up	

FIGURE 9-26. REAR AXLE STABILITY VALVE (Prior to SN 0160080894)

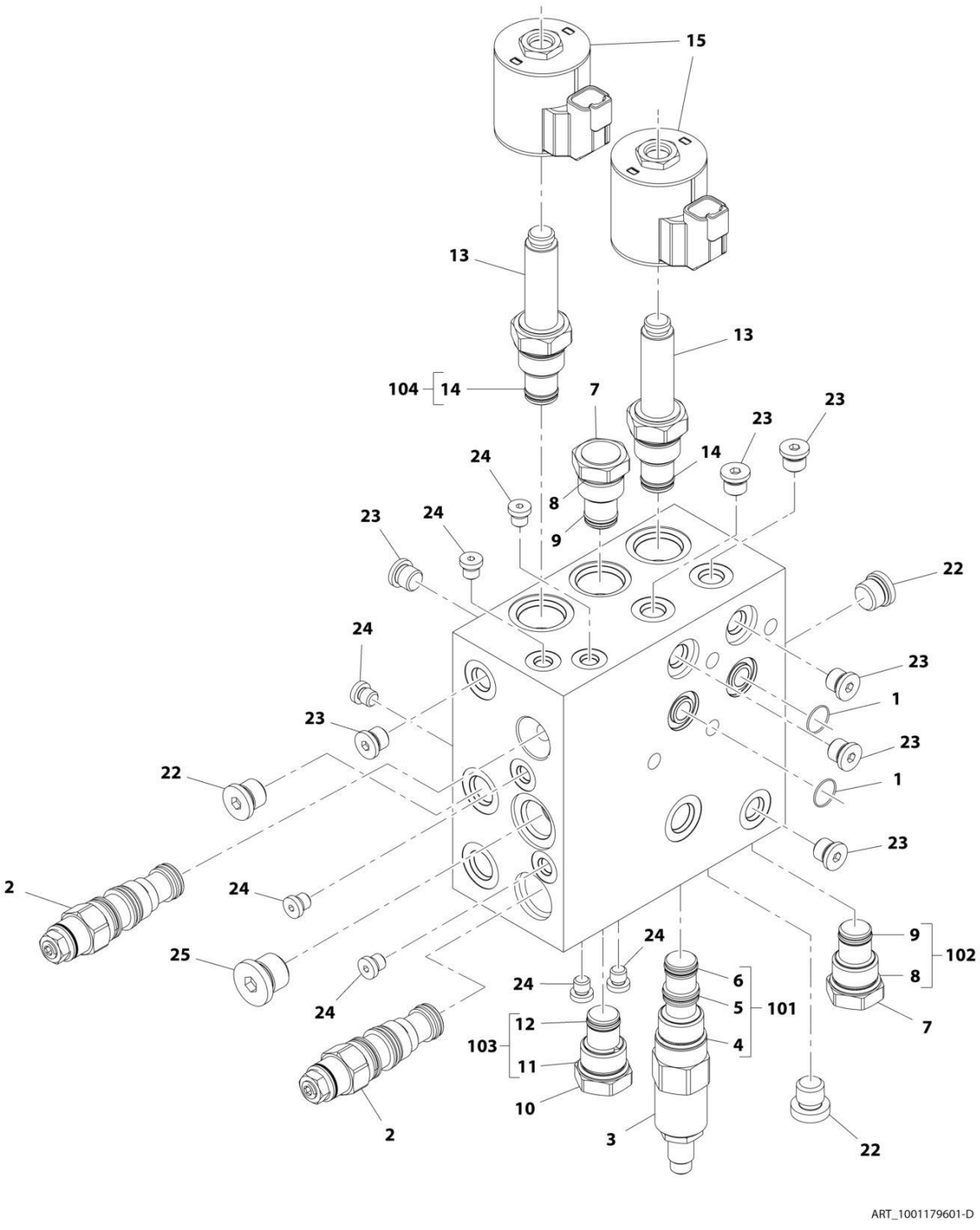


FIGURE 9-26. REAR AXLE STABILITY VALVE (Prior to SN 0160080894)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179601	Ref	Rear Axle Stabilizer Valve	D
1	70026440	2	O-Ring	
2	70026441	2	Valve	
3	70026442	1	Valve	
4	Kit	1	O-Ring	
5	Kit	1	O-Ring	
6	Kit	1	O-Ring	
7	70026443	2	Valve	
8	Kit	1	O-Ring	
9	Kit	1	O-Ring	
10	70026444	1	Valve	
11	Kit	1	O-Ring	
12	Kit	1	O-Ring	
13	70026445	2	Valve	
14	Kit	1	O-Ring	
15	70003788	2	Coil	
16	70026447	1	Valve (not shown)	
17	Kit	1	O-Ring (not shown)	
18	Kit	1	O-Ring (not shown)	
19	Kit	1	O-Ring (not shown)	
20	Kit	1	O-Ring (not shown)	
21	70002386	1	Coil (not shown)	
22	7024844	3	Plug	
23	7017406	7	Plug	
24	70026315	1	Plug	
25	2220886	1	Plug	
101	7012510	1	Kit, Seal (includes items 4 thru 6)	
102	7024808	1	Kit, Seal (includes items 8 & 9)	
103	7022399	1	Kit, Seal (includes items 11 & 12)	
104	70026446	1	Kit, Seal (includes item 14)	
105	70005075	1	Kit, Seal (includes items 17 thru 20) (not shown)	

FIGURE 9-27. REAR AXLE STABILITY VALVE (SN 0160080894 to Present)

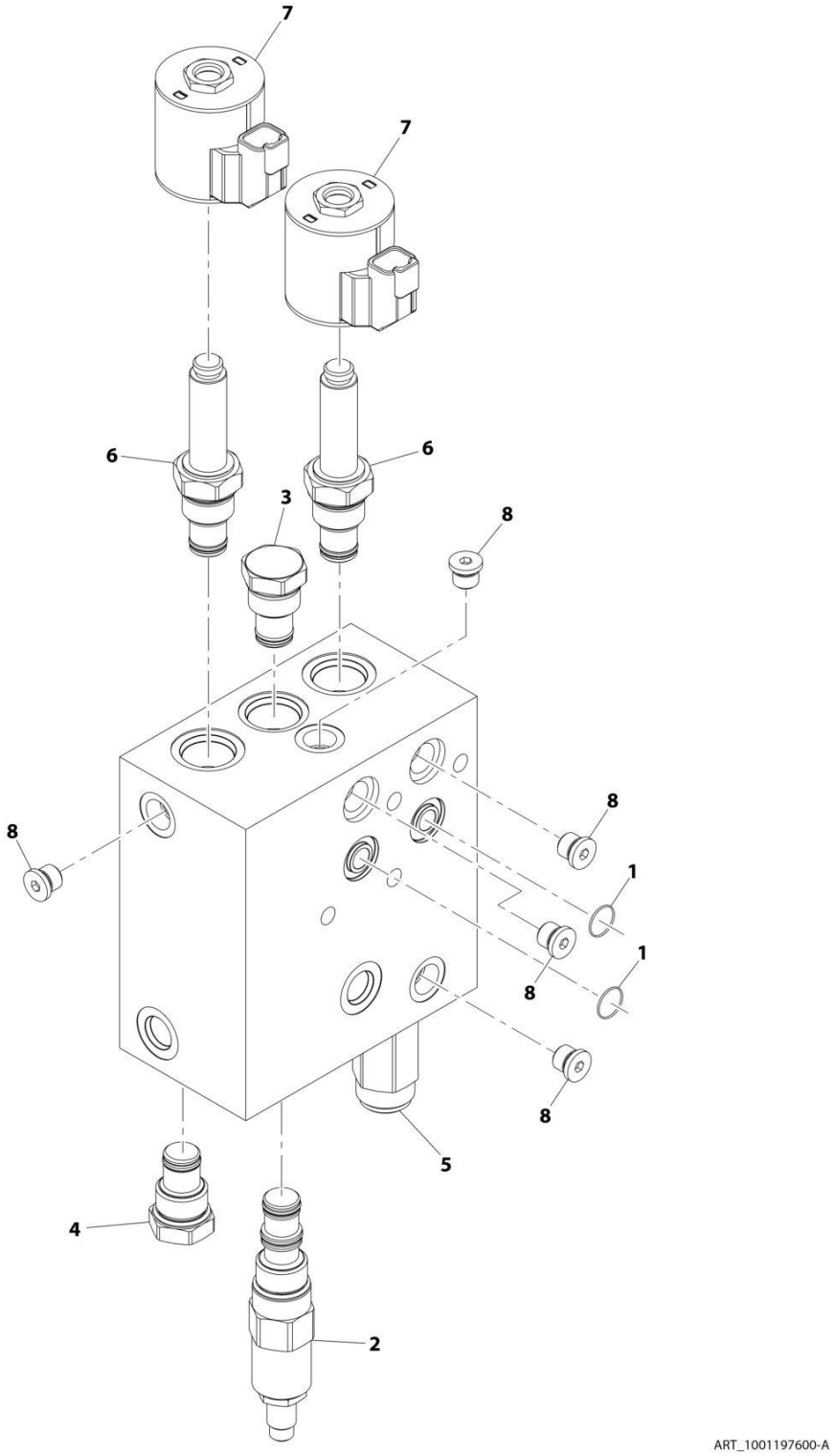


FIGURE 9-27. REAR AXLE STABILITY VALVE (SN 0160080894 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197600	Ref	Rear Axle Stabilizer Valve	A
1	70026440	2	O-Ring	
2	70026442	1	Cartridge Valve	
2	7012510	1	Seal Kit	
2	Kit	1	O-Ring	
2	Kit	1	O-Ring	
2	Kit	1	O-Ring	
3	70026443	1	Cartridge Valve	
3	7024808	1	Seal Kit	
3	Kit	1	O-Ring	
3	Kit	1	O-Ring	
4	70026444	1	Cartridge Valve	
4	7022399	1	Seal Kit	
4	Kit	1	O-Ring	
4	Kit	1	O-Ring	
5	70028451	1	Cartridge Valve	
5	7024808	1	Seal Kit	
5	Kit	1	O-Ring	
5	Kit	1	O-Ring	
6	70026445	2	Cartridge Valve	
6	70026446	1	Seal Kit	
6	Kit	1	O-Ring	
7	70003788	2	Coil	
8	2220883	5	Plug	

FIGURE 9-28. SAHR BRAKE VALVE

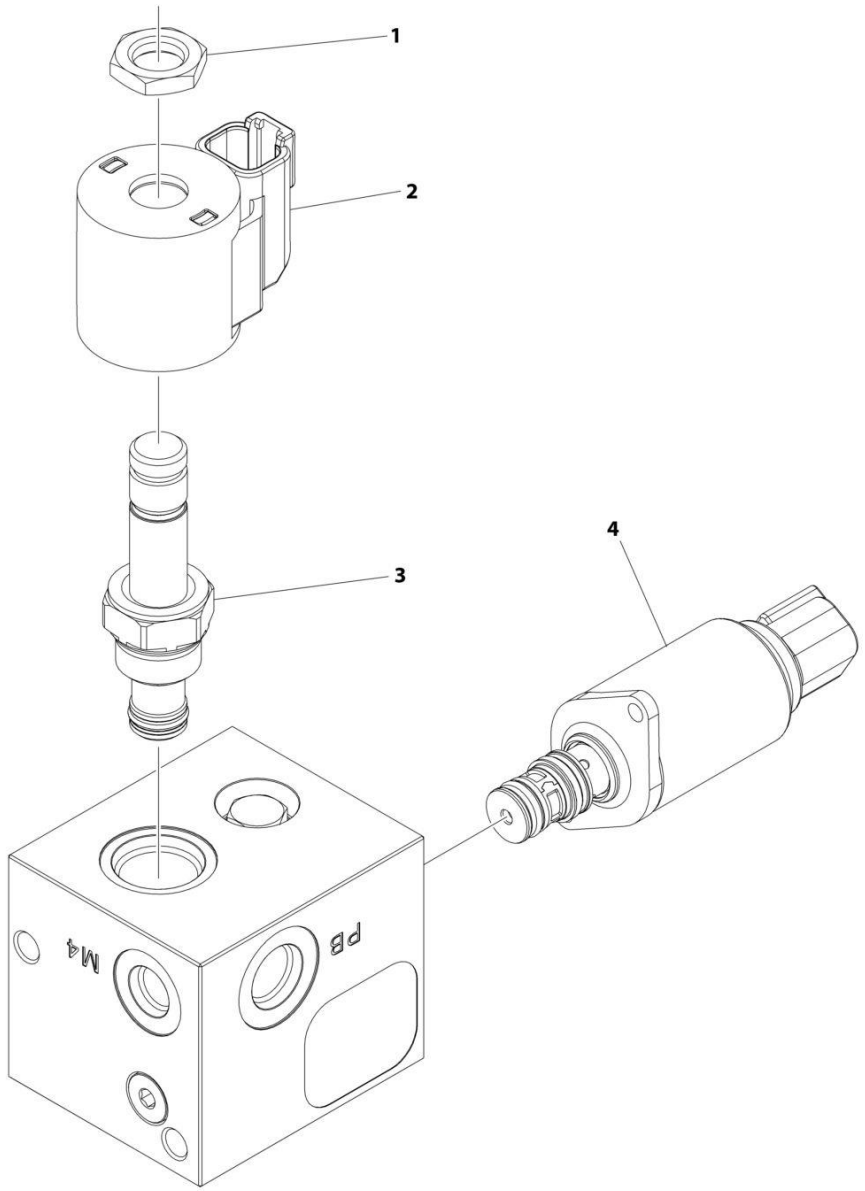
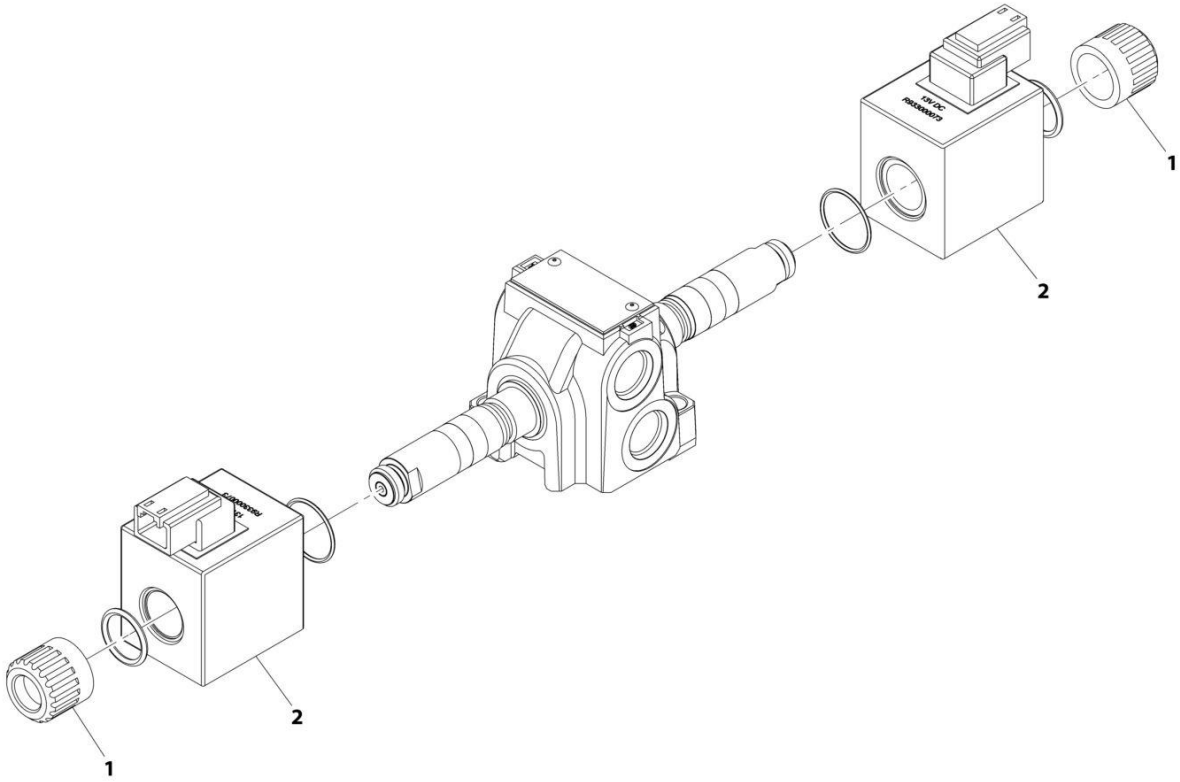


FIGURE 9-28. SAHR BRAKE VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001234127	Ref	Sahr Brake Valve	C
1	7022390	1	Nut	
2	70002963	1	Coil	
3	70002955	1	Cartridge	
4	70030036	1	Solenoid Valve	

FIGURE 9-29. STEERING SELECT VALVE



ART_1001153748-C

FIGURE 9-29. STEERING SELECT VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001153748	Ref	Steering Select Valve	C
1	70020867	2	Nut, Coil	
2	70026582	2	Coil	

FIGURE 9-30. STEERING ORBITAL VALVE

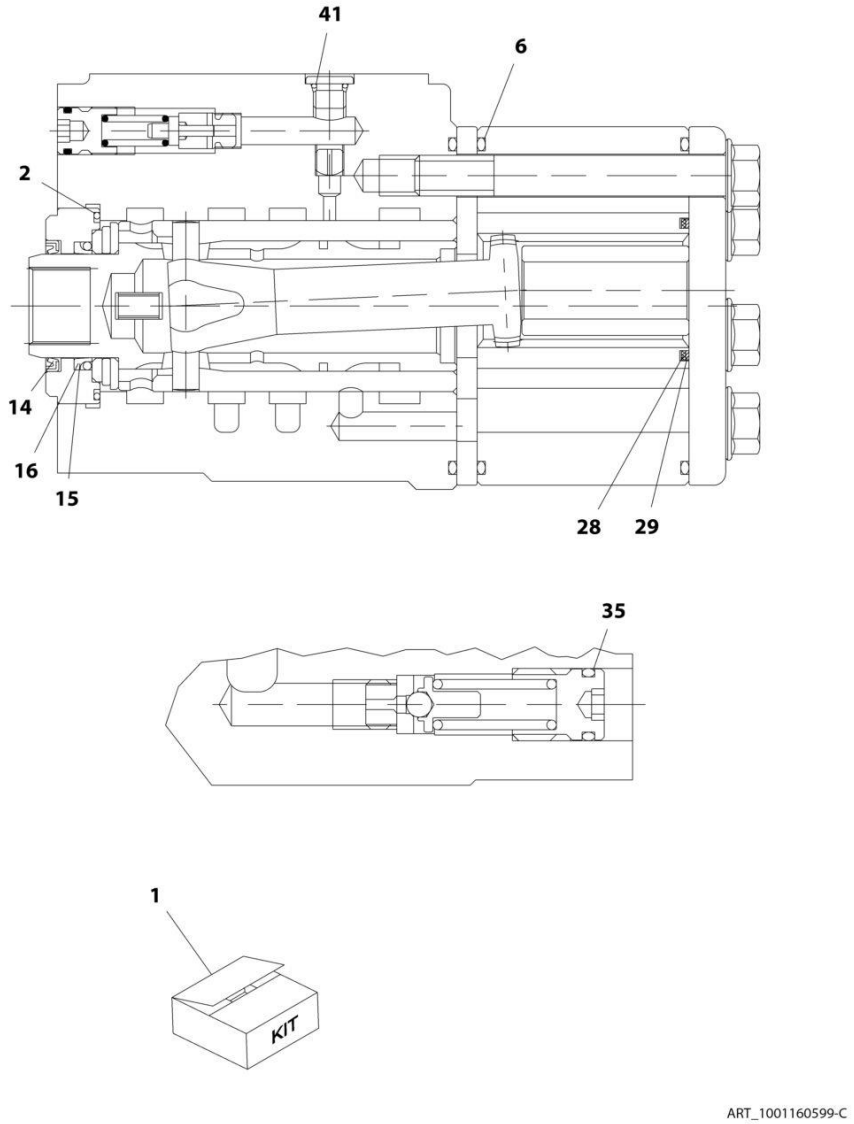


FIGURE 9-30. STEERING ORBITAL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001160599	Ref	Steering Orbital Valve	C
1	70026401	1	Kit, Seal (includes items 2 thru 41)	
2	Kit	1	O-Ring	
6	Kit	3	O-Ring	
14	Kit	1	Seal, Dust	
15	Kit	1	O-Ring	
16	Kit	1	Seal, Shaft	
28	Kit	1	Washer, Back-Up	
29	Kit	1	Seal, Ring	
35	Kit	3	O-Ring	
41	Kit	2	O-Ring	

FIGURE 9-31. SWING CARRIAGE CYLINDER

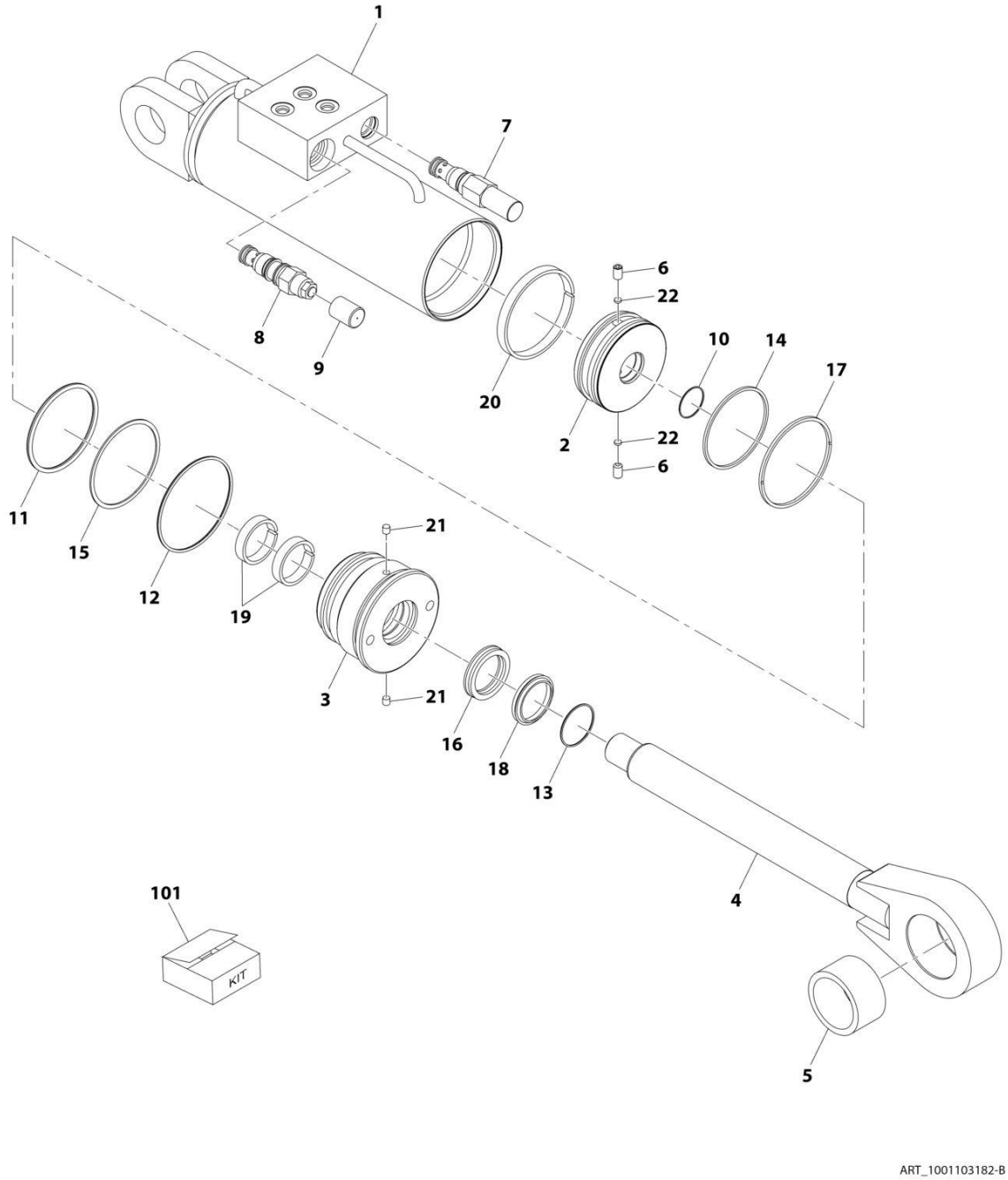


FIGURE 9-31. SWING CARRIAGE CYLINDER

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

FIGURE 9-32. SIDE TILT CYLINDER

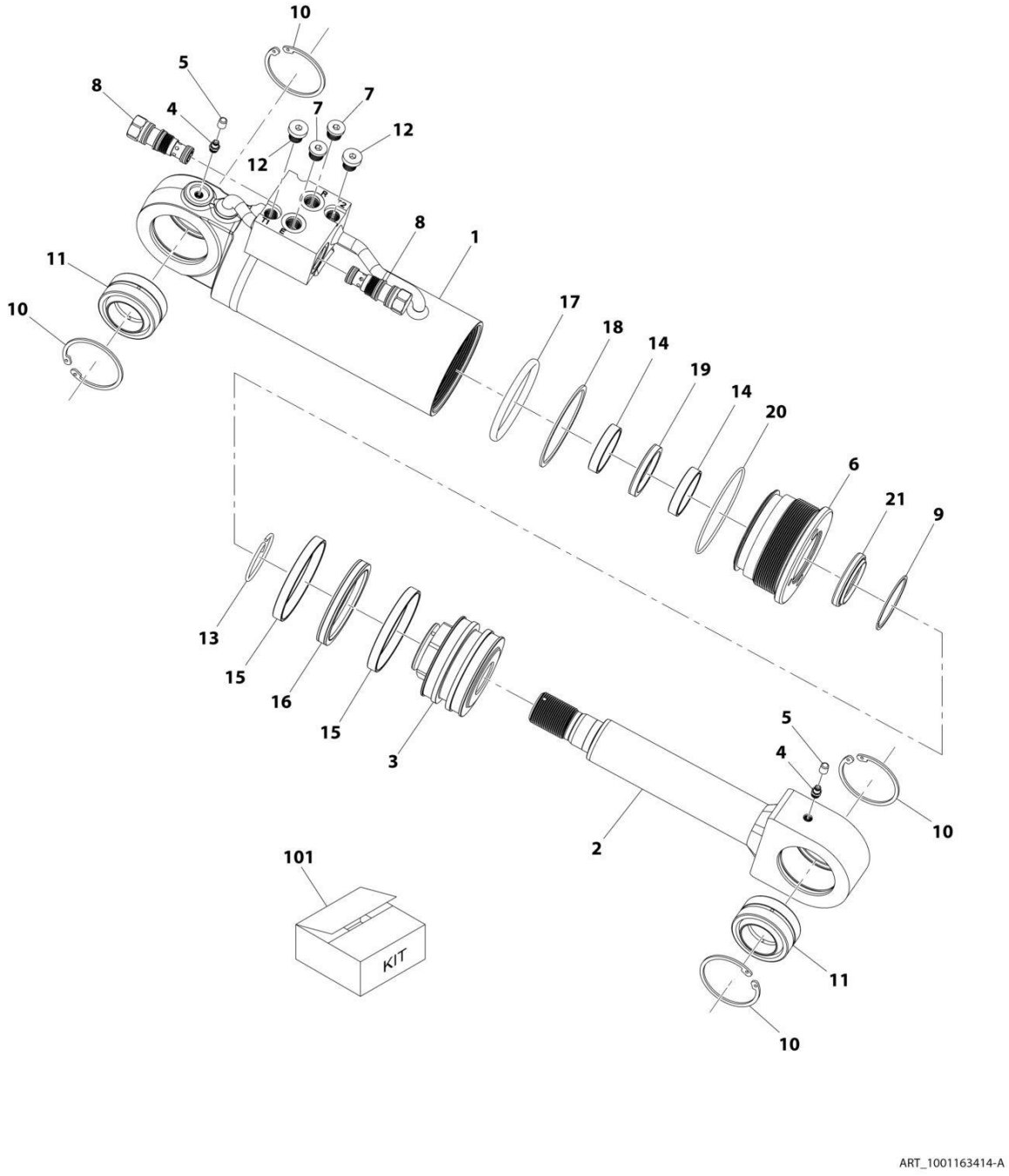


FIGURE 9-32. SIDE TILT CYLINDER

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

FIGURE 9-33. SIDE SHIFT CARRIAGE CYLINDER

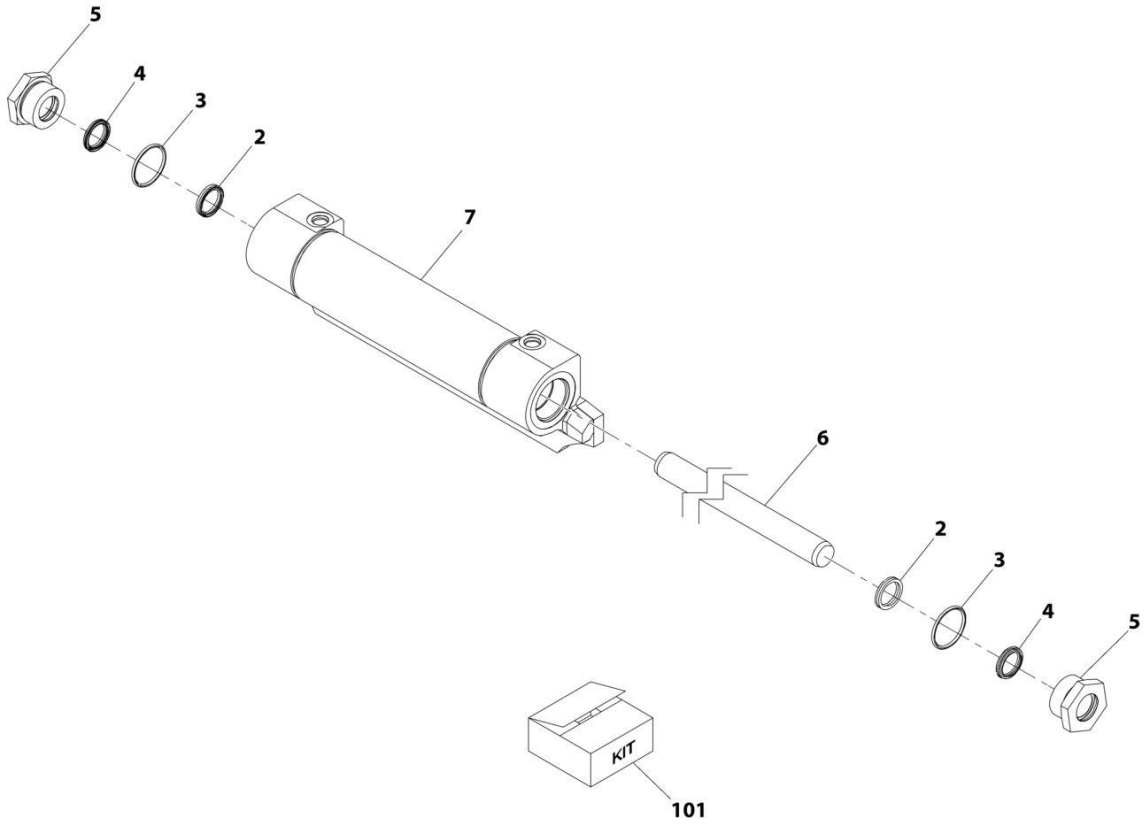


FIGURE 9-33. SIDE SHIFT CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70024539	Ref	Side Shift Carriage Cylinder	B
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
2	Kit	NSS	Seal, Rod (Note: Use Item 101)	
3	70024547	2	O-Ring	
4	Kit	NSS	Seal, Rod Wiper (Note: Use Item 101)	
5	70024548	2	Seal, Retainer	
6	N.S.S.	NSS	Rod (Note: Use PN 70024539)	
7	N.S.S.	NSS	Barrel (Note: Use PN 70024539)	
101	70024549	1	Kit, Seal (includes items 2 & 4)	

FIGURE 9-34. TANK HYDRAULIC

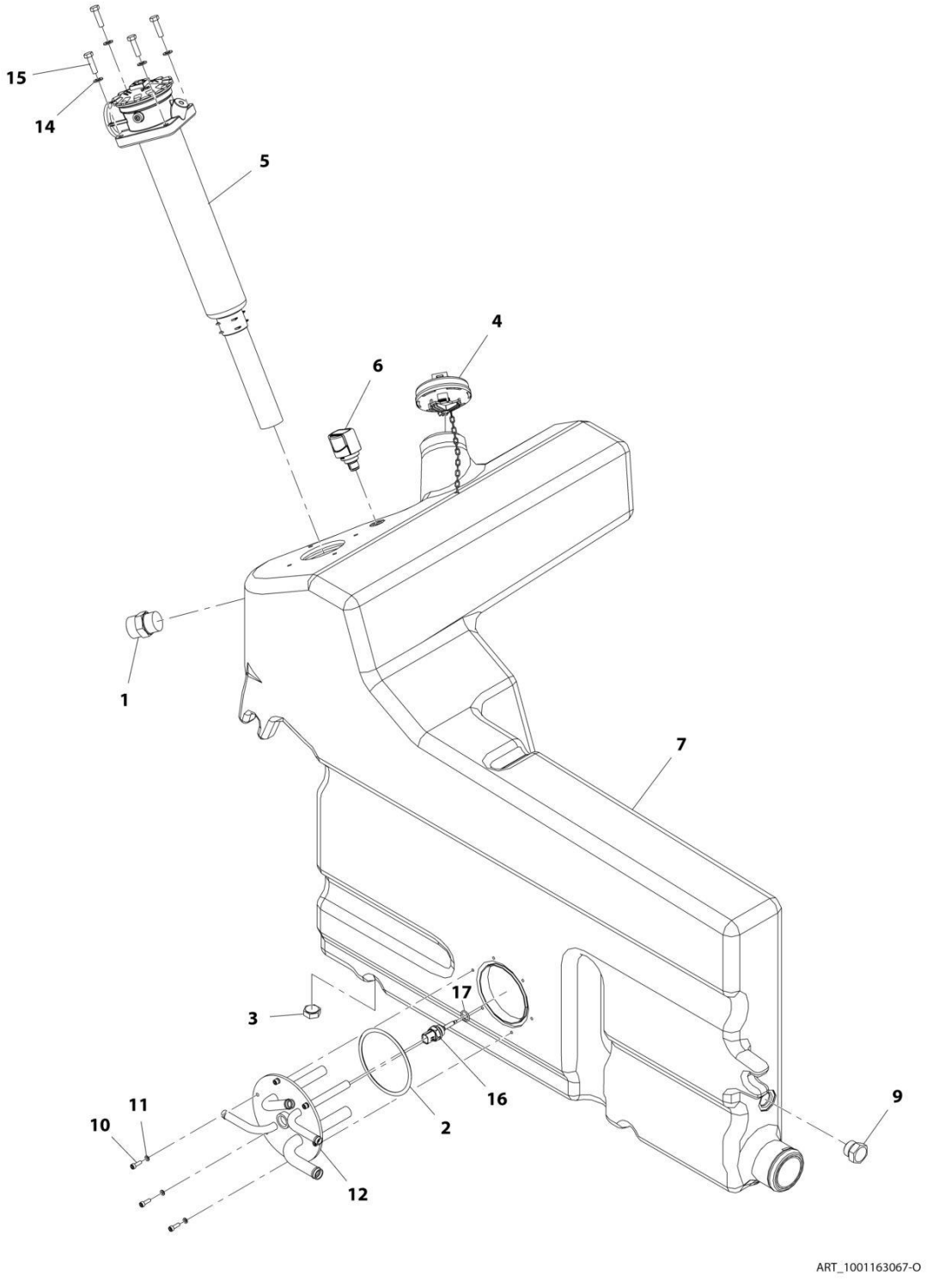


FIGURE 9-34. TANK HYDRAULIC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163067	Ref	Hydraulic Tank	O
1	2111616	1	Fitting, Straight ORFS	
2	1001003301	1	Seal O-Ring	
3	2220239	1	Plug	
4	1001194981	1	Cap	
5	1001162660	1	Filter Assembly (See Separate Breakdown in this Section)	
6	1001162662	1	Filter, Breather	
7	1001162765	1	Tank	
9	2220240	1	Adapter	
10	4031607	6	Screw, M5-0.8X16	
11	4831600	6	Washer, Lock M5	
12	1001167281	1	Manifold, Hydraulic Return	
14	4811900	4	Washer, M8	
15	0700814	4	Bolt, M8X30	
16	1001128478	1	Sensor	
17	1001009163	1	Seal	

FIGURE 9-35. TILT CYLINDER ASSEMBLY

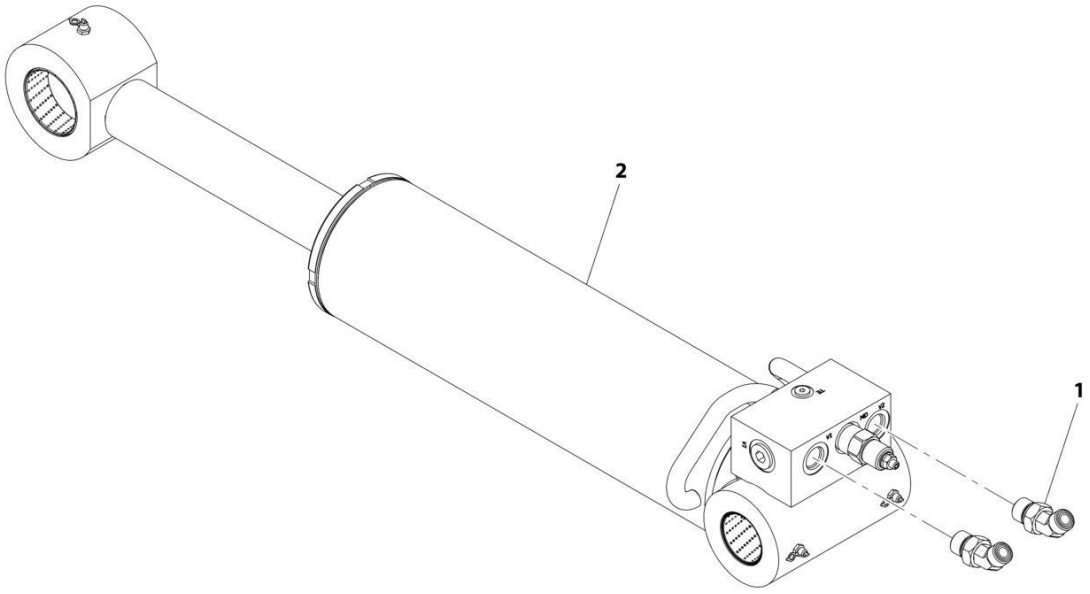


FIGURE 9-35. TILT CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001184714	Ref	Tilt Cylinder Assembly	E
1	2150810	2	Fitting, 45 ORFS	
2	1001197574	NLA	Tilt Cylinder (no longer available, use 1001228089 for replacement) (See Separate Breakdown in this Section)	
2	1001228089	1	Tilt Cylinder (See Separate Breakdown in this Section)	

FIGURE 9-36. TILT CYLINDER

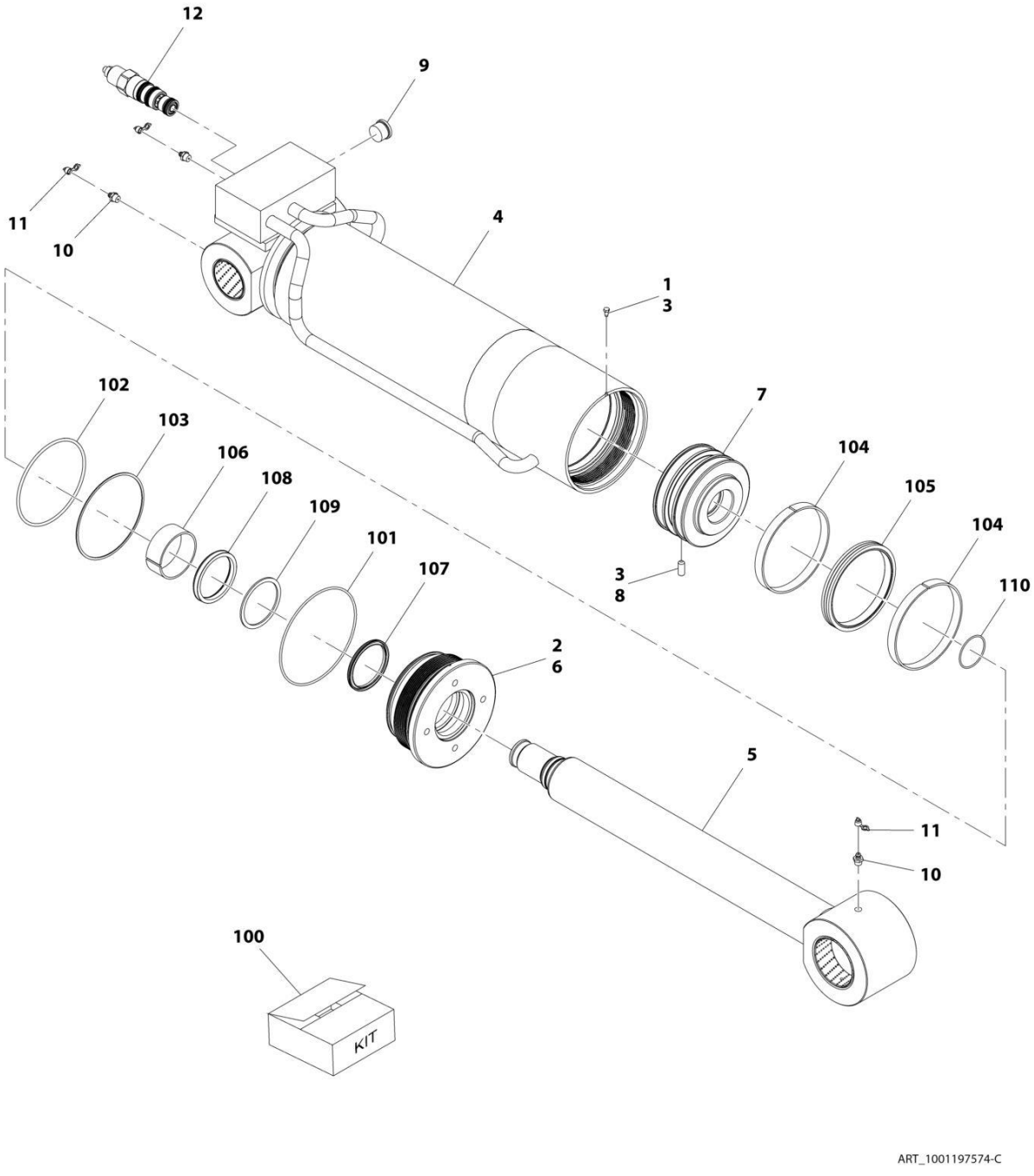


FIGURE 9-36. TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197574	NLA	Tilt Cylinder (no longer available, use items 1 thru 100 for service or 1001228089 for replacement)	C
		Ref	**Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	1001125137	1	Screw, Self Tapping	
2	3020043	AR	Lube, Anti-Seize	
3	0100011	AR	Adhesive, Loctite	
4	N.S.S.	1	Barrel	
5	1001167727	1	Rod	
6	1001197209	1	Cylinder, Head	
7	1001197210	1	Cylinder, Piston	
8	1001169050	1	Screw, M8X1.25	
9	2220887	1	Plug	
10	2160016	3	Fitting, Grease	
11	8887145	3	Cap, Grease Fitting	
12	1001189888	1	Valve, Counterbalance	
100	1001197801	1	Kit, Seal (includes items 101 thru 110)	
101	Kit	1	O-Ring	
102	Kit	1	O-Ring	
103	Kit	1	Ring, Back-Up	
104	Kit	2	Ring, Piston Wear	
105	Kit	1	Seal, Piston Cap	
106	Kit	1	Ring, Wear	
107	Kit	1	Seal, Rod Wiper	
108	Kit	1	Seal, Rod	
109	Kit	1	Ring, Back-Up	
110	Kit	1	O-Ring	

FIGURE 9-37. TILT CYLINDER

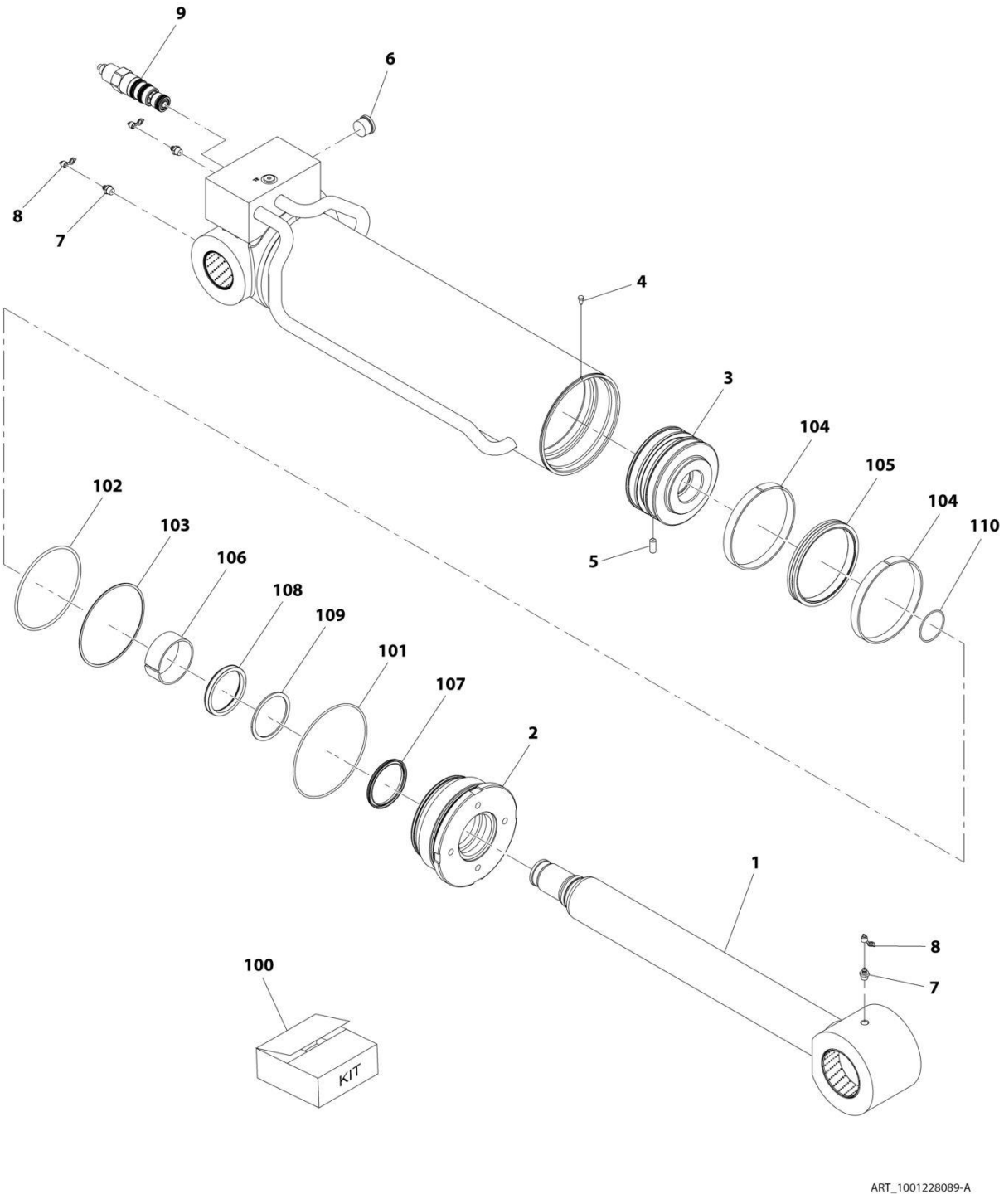


FIGURE 9-37. TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228089	Ref	Tilt Cylinder	A
1	70029042	1	Rod	
2	70029043	1	Gland	
3	70029044	1	Piston	
4	1001125137	1	Screw, Self Tapping	
5	1001169050	1	Screw, M8X1.25	
6	2220887	1	Plug	
7	2160016	3	Fitting, Grease	
8	8887145	3	Cap, Grease Fitting	
9	1001189888	1	Valve, Counterbalance	
100	1001197801	1	Kit, Seal (includes items 101 thru 110)	
101	Kit	1	O-Ring	
102	Kit	1	O-Ring	
103	Kit	1	Ring, Back-Up	
104	Kit	4	Ring, Piston Wear	
105	Kit	1	Seal, Piston Cap	
106	Kit	1	Ring, Wear	
107	Kit	1	Seal, Rod Wiper	
108	Kit	1	Seal, Rod	
109	Kit	1	BACK UP RING	
110	Kit	1	O-Ring	

SECTION 10 - ELECTRICAL

FIGURE 10-1. ARCTIC COLD WEATHER PACKAGE INSTALLATION (ULS)

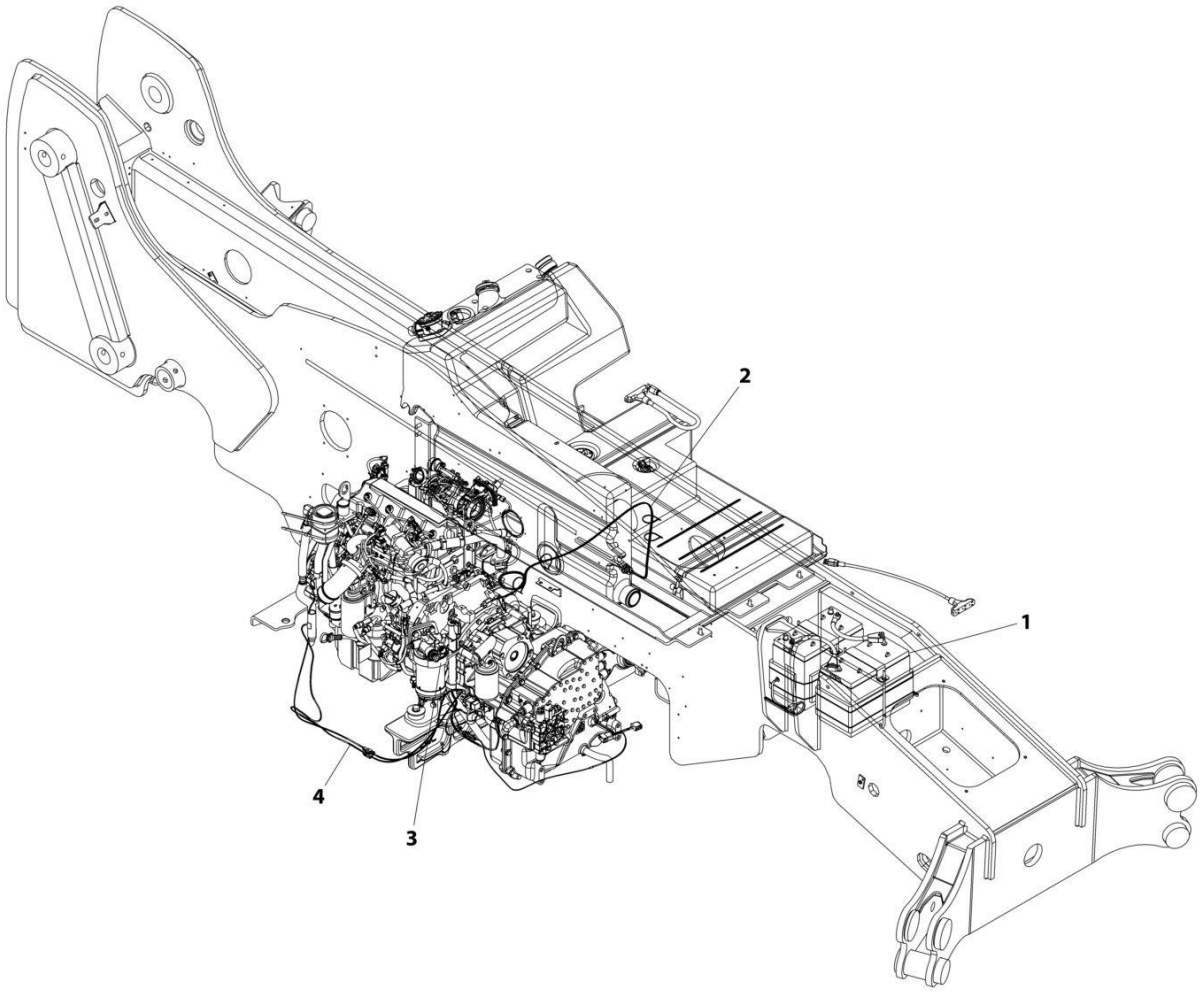


FIGURE 10-1. ARCTIC COLD WEATHER PACKAGE INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001190179	Ref	Arctic Weather Package Installation - 110 HP (ULS)	E
1	1001190670	Ref	Installation, Arctic Batteries (See Separate Breakdown in this Section)	
2	1001190671	Ref	Installation, Tank Heater (See Separate Breakdown in this Section)	
3	1001204095	Ref	Installation, Fuel Filter Heater (See Separate Breakdown in this Section)	
4	1001232751	Ref	Heater, Breather - 110 HP (See Separate Breakdown in this Section)	

FIGURE 10-2. ARCTIC COLD WEATHER PACKAGE INSTALLATION (LS)

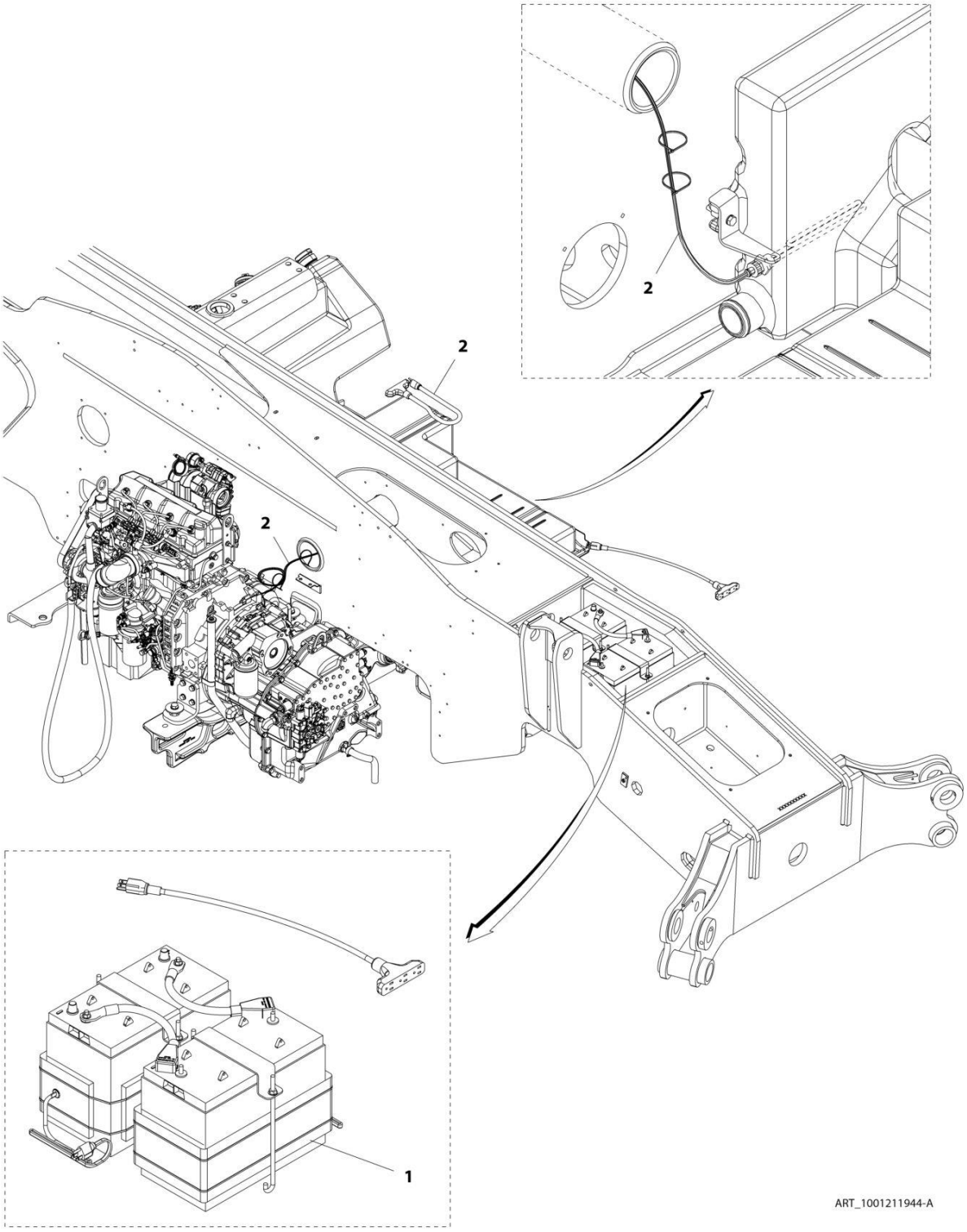


FIGURE 10-2. ARCTIC COLD WEATHER PACKAGE INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001211944	Ref	Arctic Weather Package Installation (LS)	A
1	1001190670	Ref	Installation, Arctic Batteries (See Separate Breakdown in this Section)	
2	1001190671	Ref	Installation, Tank Heater (See Separate Breakdown in this Section)	

FIGURE 10-3. ARCTIC BATTERIES INSTALLATION

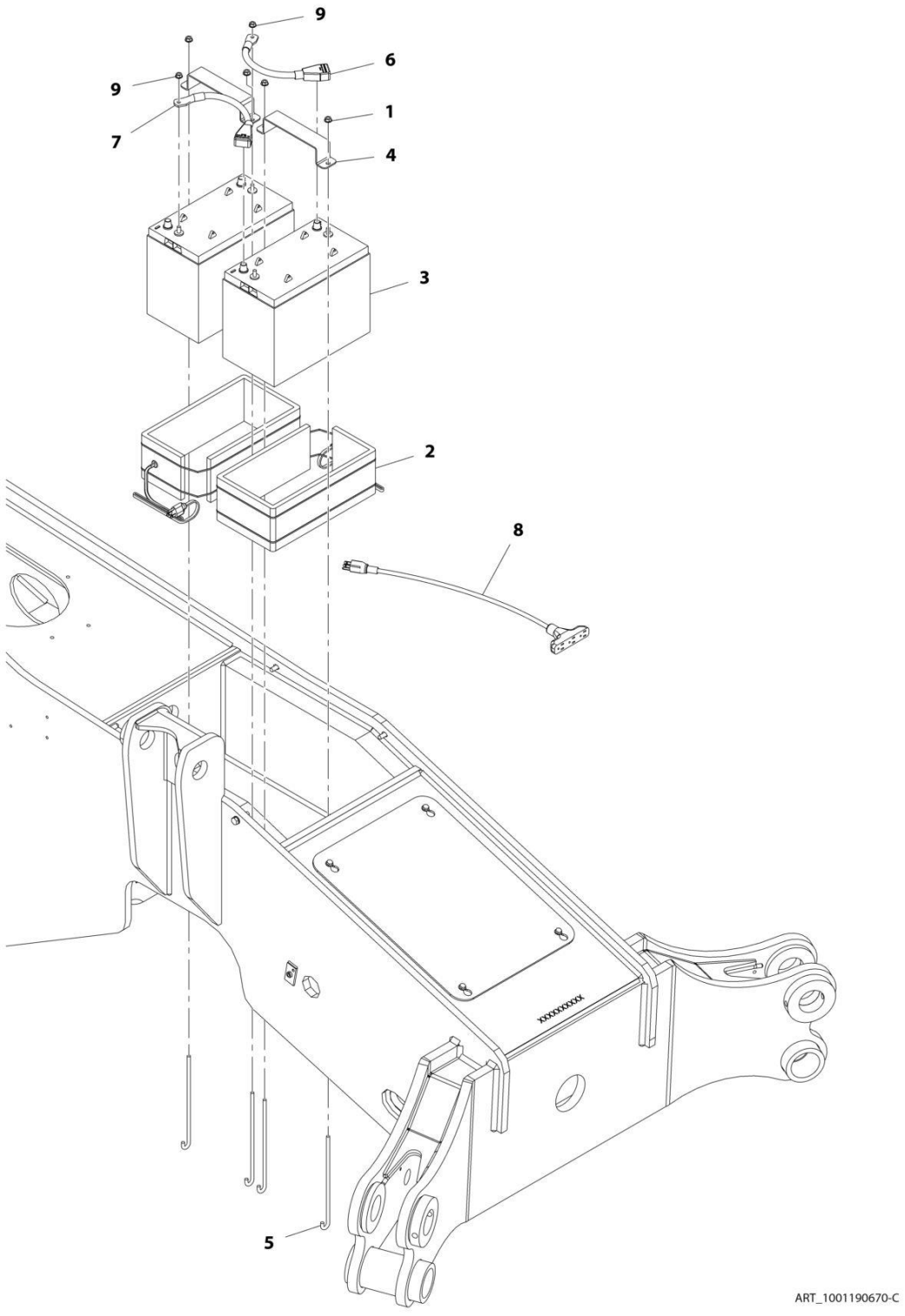


FIGURE 10-3. ARCTIC BATTERIES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001190670	Ref	Artic Batteries Installation	C
1	5220800	4	Nut, M8	
2	1001093564	2	Heater, Battery	
3	1001098762	2	Battery, 12V	
4	1001160927	2	Plate	
5	1001160928	4	J-Bolt	
6	1001172495	1	Cable	
7	1001172496	1	Cable	
8	1060626	1	Cord, 3-Way Extension	
9	3311508	2	Nut	

FIGURE 10-4. A/C OPTION HARNESS

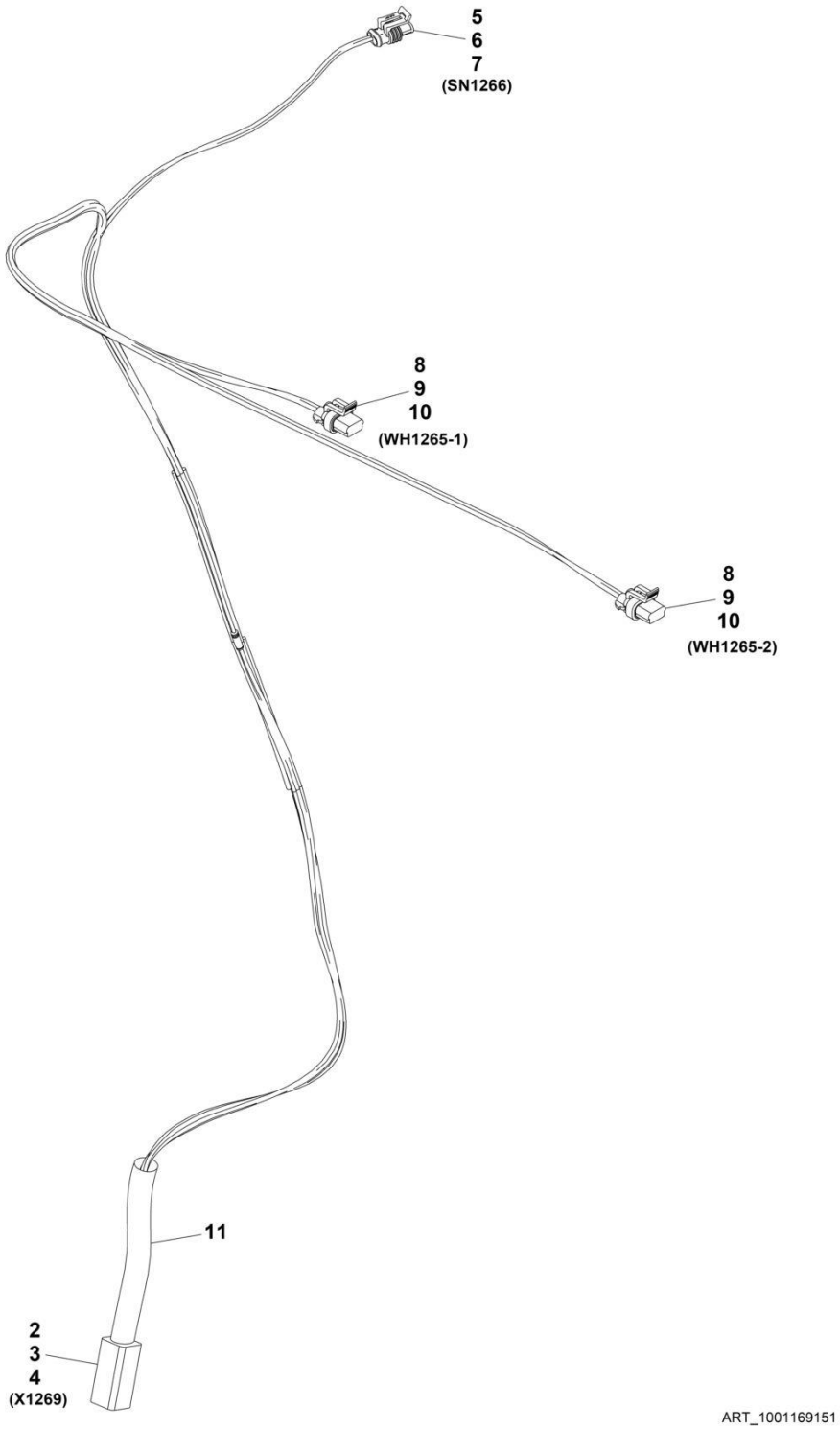


FIGURE 10-4. A/C OPTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001169151	Ref	A/C Option Harness	G
2	4460899	1	Connector	
3	4460941	4	Terminal	
4	4460464	2	Terminal	
5	4461118	1	Connector	
6	1001107854	2	Terminal	
7	1001116763	2	Seal	
8	1001117021	2	Connector	
9	1001116747	4	Terminal	
10	4460789	4	Seal	
11	70028546	1	Backshell	

FIGURE 10-5. AIR SHUTOFF VALVE HARNESS

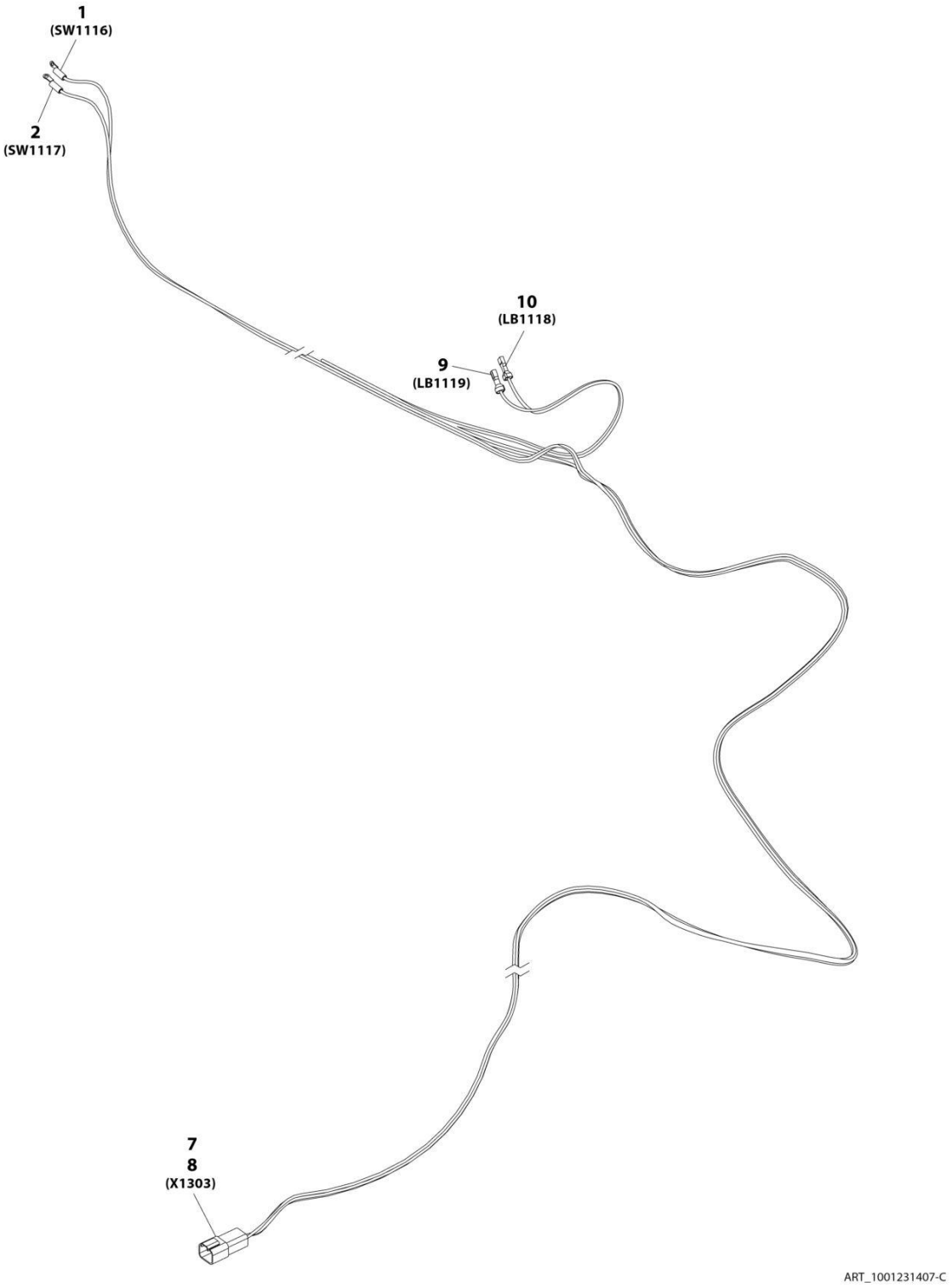


FIGURE 10-5. AIR SHUTOFF VALVE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231407	1	Air Shutoff Valve Harness	C
1	8220035	1	Terminal, Ring	
2	8220035	1	Terminal, Ring	
7	4460932	1	Connector	
8	4460464	4	Pin	
9	8220108	1	Connector, Female	
10	8220108	1	Connector, Female	

FIGURE 10-6. BATTERY INSTALLATION

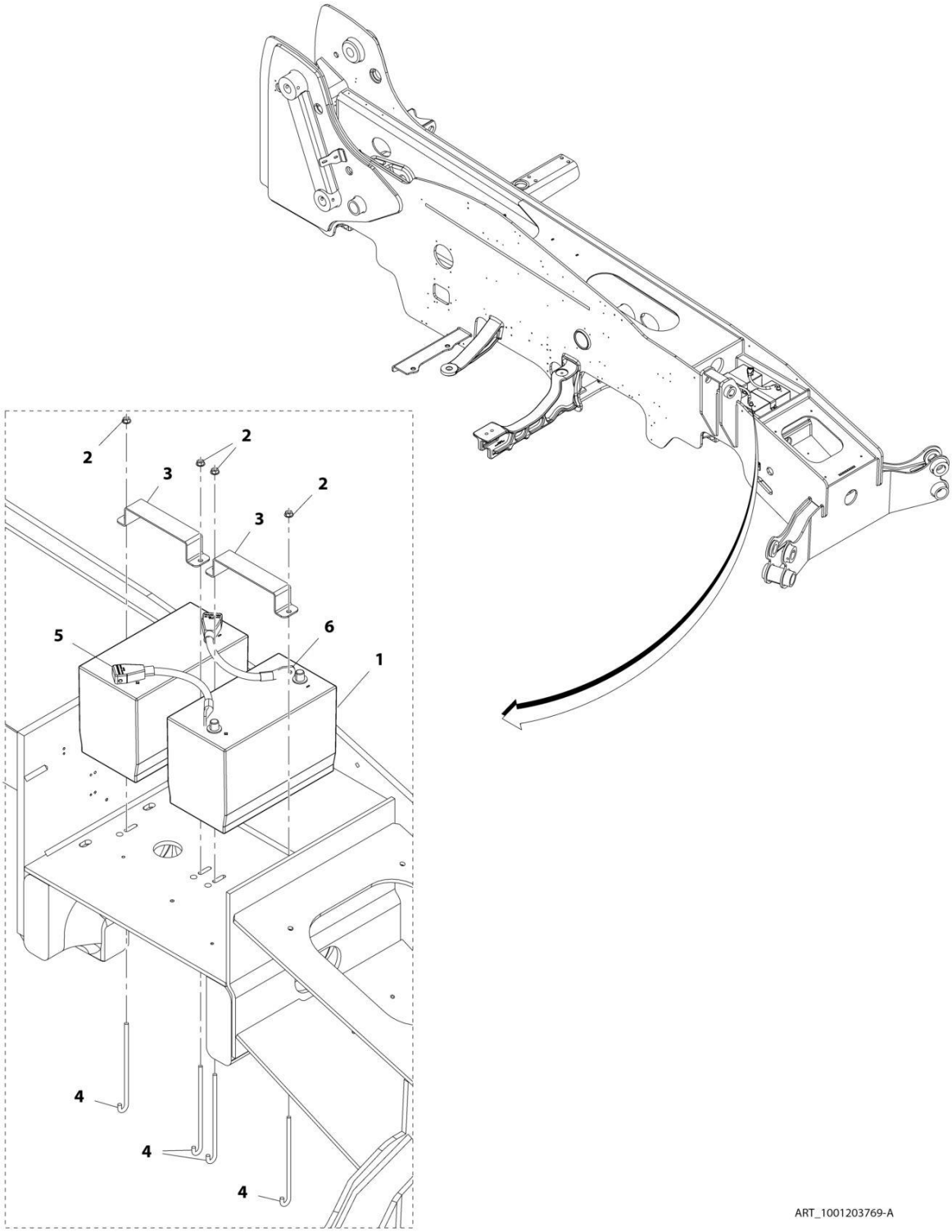


FIGURE 10-6. BATTERY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001203769	Ref	Battery Installation (642,742)	A
1	0400075	2	Battery, 12V	
2	5220800	4	Nut, M8	
3	1001160927	2	Plate	
4	1001181961	4	J-Bolt	
5	1001203557	1	Cable	
6	1001203558	1	Cable	

FIGURE 10-7. BACKUP ALARM INSTALLATION (120 DB)

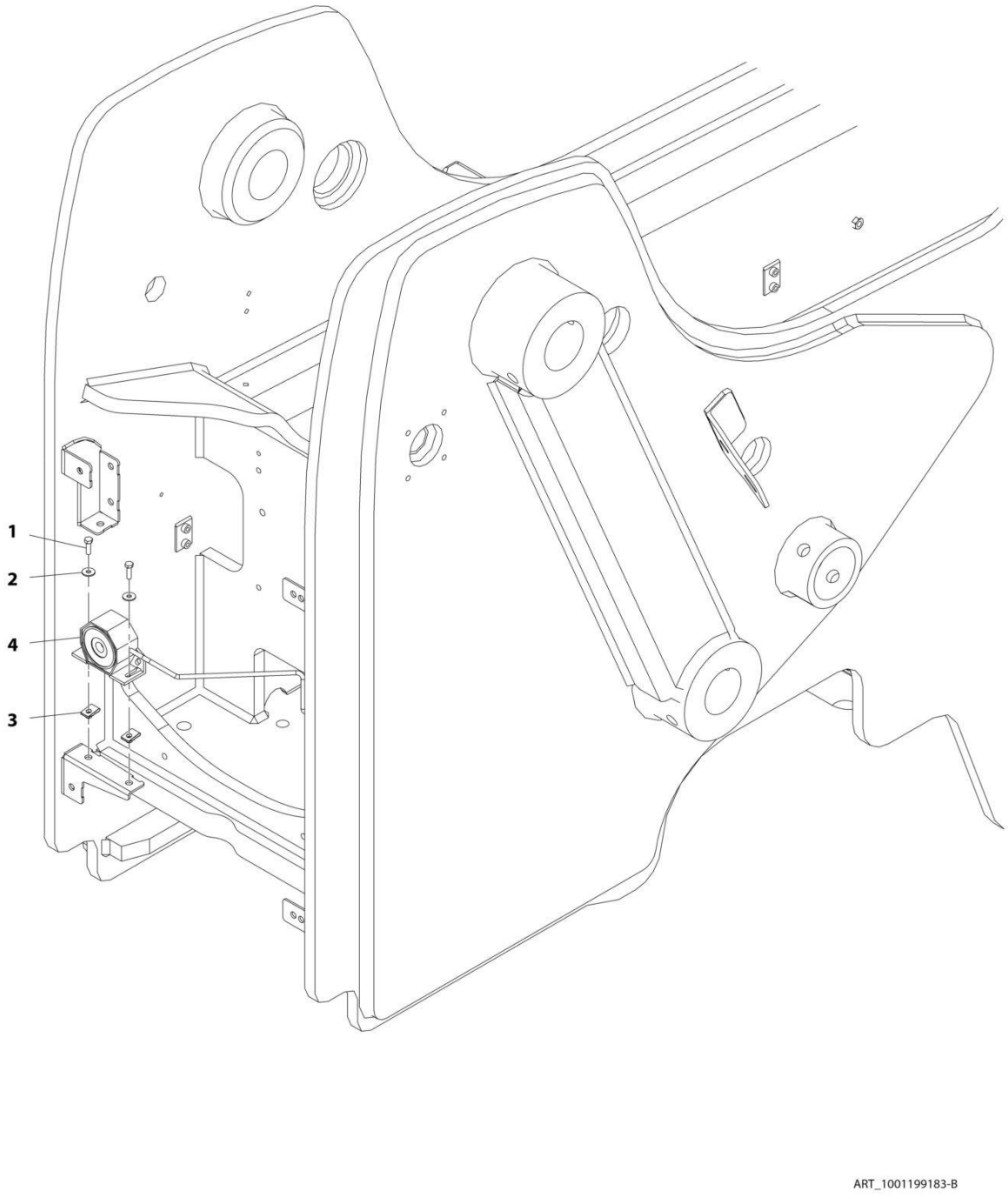


FIGURE 10-7. BACKUP ALARM INSTALLATION (120 DB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199183	Ref	Backup Alarm Installation (120 dB)	B
1	0700610	2	Bolt, M6X20	
2	4811702	2	Washer, M6	
3	1001130220	2	Nut, M6	
4	1001147060	1	Alarm, Backup	

FIGURE 10-8. BACKUP ALARM INSTALLATION (97 DB)

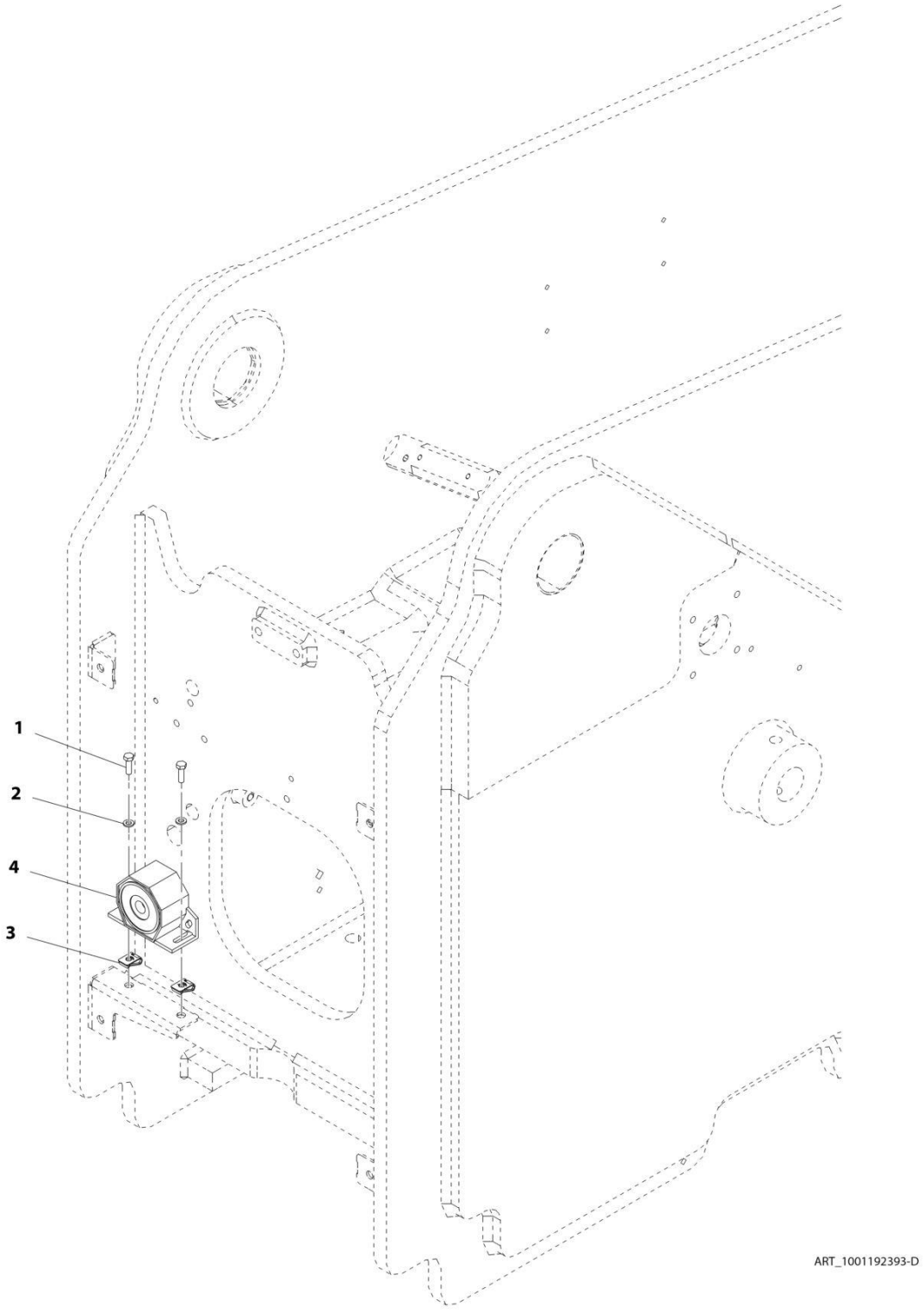


FIGURE 10-8. BACKUP ALARM INSTALLATION (97 DB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001192393	Ref	Backup Alarm Installation (97 dB)	D
1	0700610	2	Bolt, M6X20	
2	4811702	2	Washer, M6	
3	8305919	2	Nut, M6	
4	1001101808	1	Alarm, Backup	

FIGURE 10-9. BOOM WORK LIGHTS INSTALLATION

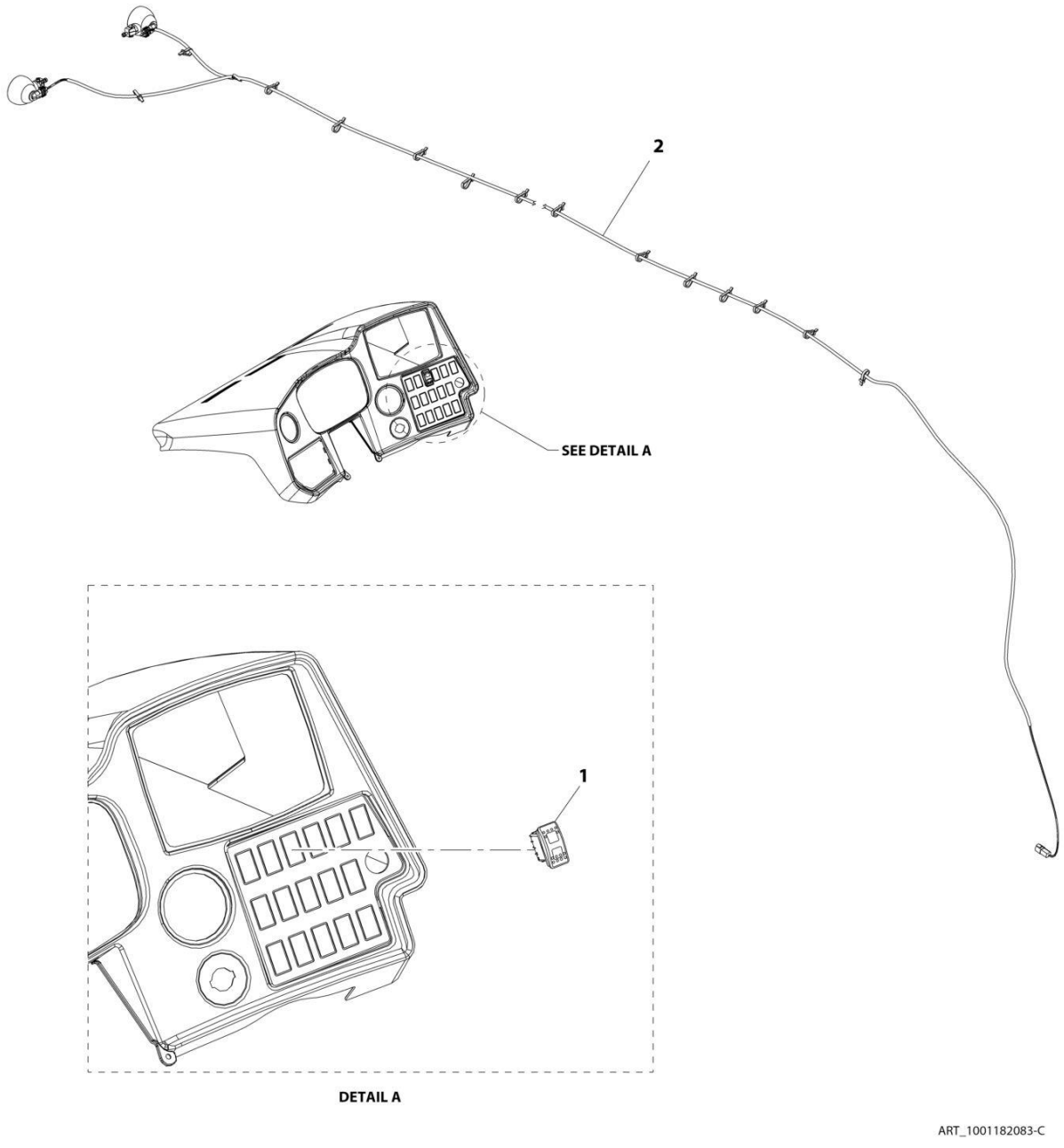


FIGURE 10-9. BOOM WORK LIGHTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001182083	Ref	Boom Work Lights Installation	C
1	1001159739	1	Switch, Driving Lights	
2	1001174932	Ref	Installation, Boom Work Lights (See Separate Breakdown in this Section)	

FIGURE 10-10. BOOM LIGHTS INSTALLATION

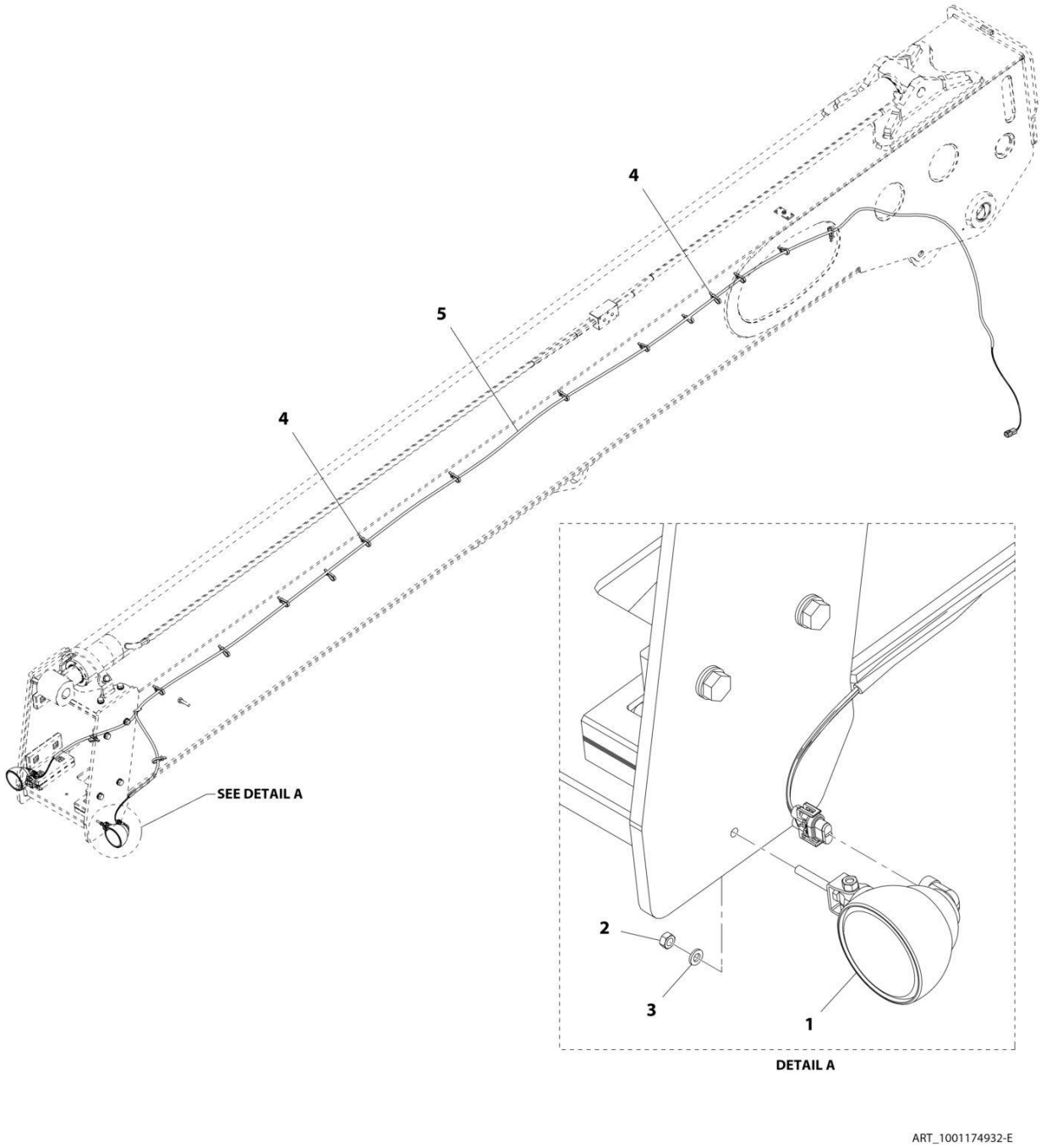


FIGURE 10-10. BOOM LIGHTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174932	Ref	Boom Lights Installation	E
1	1001207287	2	Worklight	
2	3290601	2	Nut, M6X1	
3	4811700	2	Washer, M6	
4	1001008923	AR	Strap, Tie	
5	1001167608	1	Harness, Boom Worklight (See Separate Breakdown in this Section)	

FIGURE 10-11. BREATHER HEATER

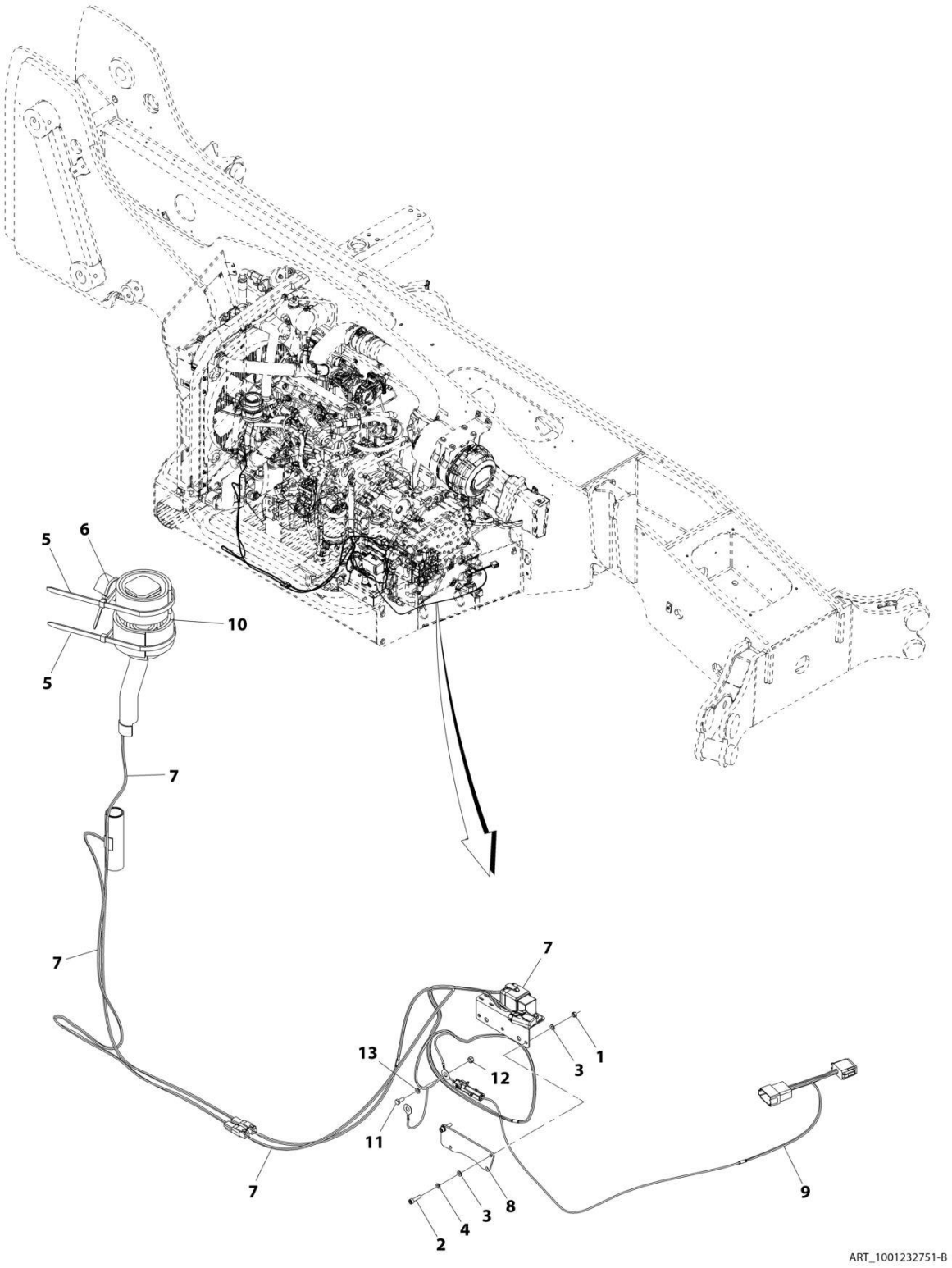


FIGURE 10-11. BREATHER HEATER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232751	Ref	Heater Breather - 110 HP	B
1	3290501	2	Nut, M5X0.8	
2	4031608	2	Screw, M5X20	
3	4811600	4	Washer, M5	
4	4831600	2	Washer, Lock M5	
5	01043892	2	Strap, Tie	
6	86683122	1	Strap, Tie	
7	1001232439	1	Engine, Cummins Breather Kit	
8	1001232440	1	Bracket	
9	1001232556	1	Harness, Cummins Heater Jump	
10	1001232624	1	Insulate, Cummins Insulation	
11	0760607	1	Bolt, M6X1	
12	3290601	1	Nut, M6X1	
13	4811700	2	Washer, M6	

FIGURE 10-12. STROBE LIGHT INSTALLATION

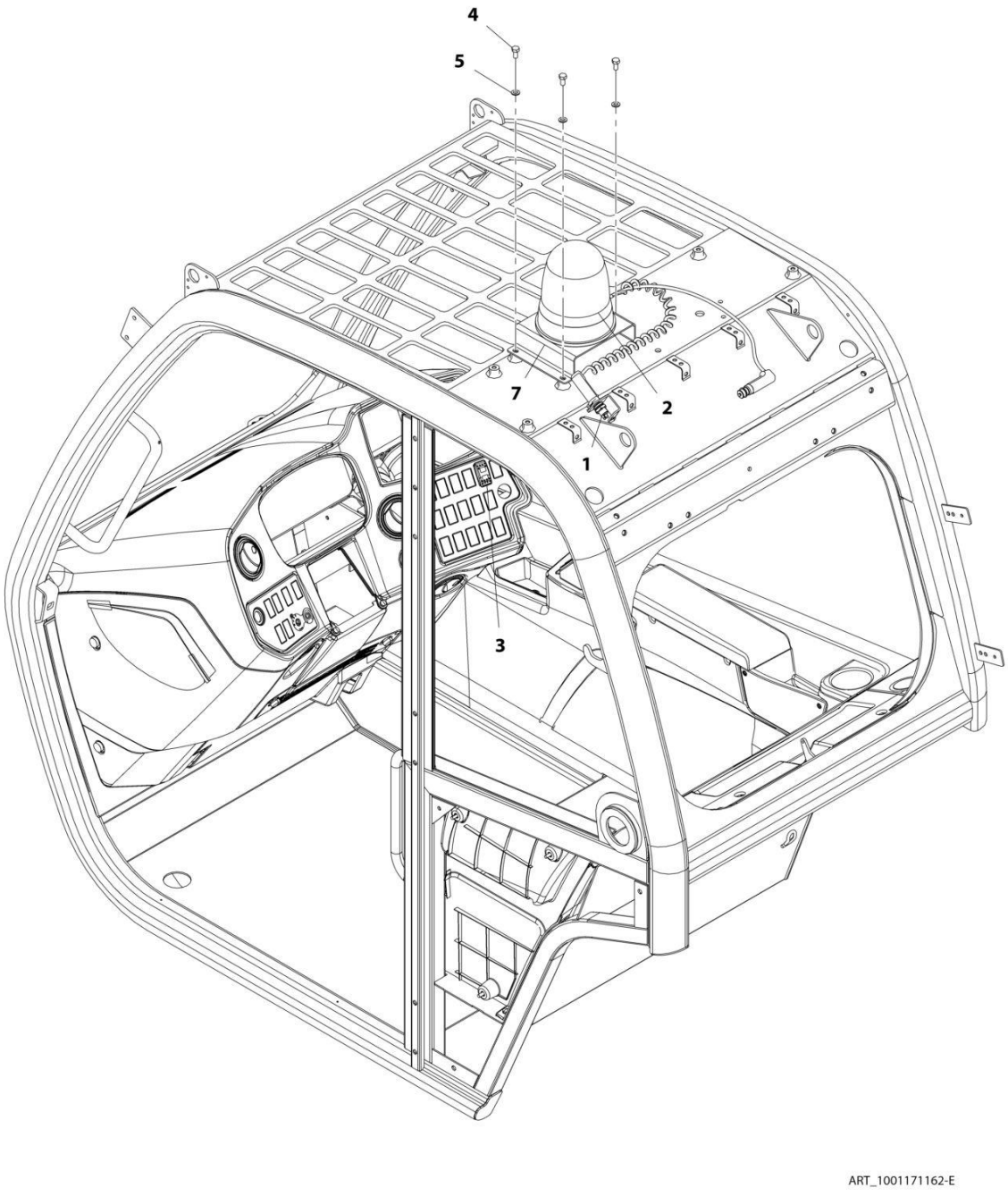


FIGURE 10-12. STROBE LIGHT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001171162	Ref	Beacon Installation	E
1	4461174	1	Terminal	
2	1001091573	NLA	Light, Warning, (no longer available, use 1001217623 for replacement)	
2	1001217623	1	Light, Warning	
3	1001159738	1	Switch	
4	0760808	3	Bolt, M8X16	
5	4811900	3	Washer, M8	
7	1001174796	1	Bracket	

FIGURE 10-13. BOOM ELECTRICAL HARNESS INSTALLATION

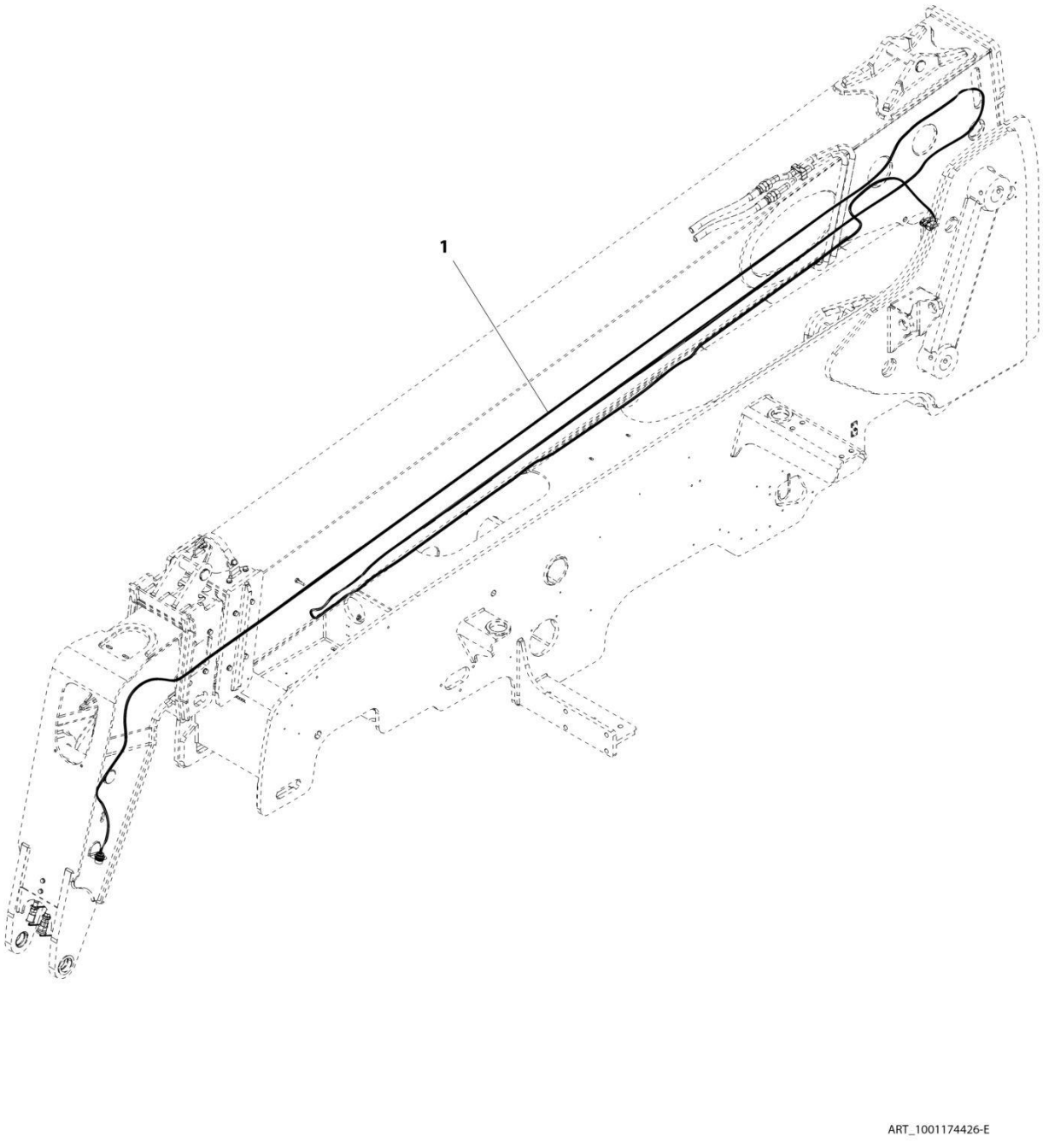


FIGURE 10-13. BOOM ELECTRICAL HARNESS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174426	Ref	Boom Electrical Harness Installation	E
1	1001172728	1	Harness, Boom (See Separate Breakdown in this Section)	

FIGURE 10-14. BOOM HARNESS

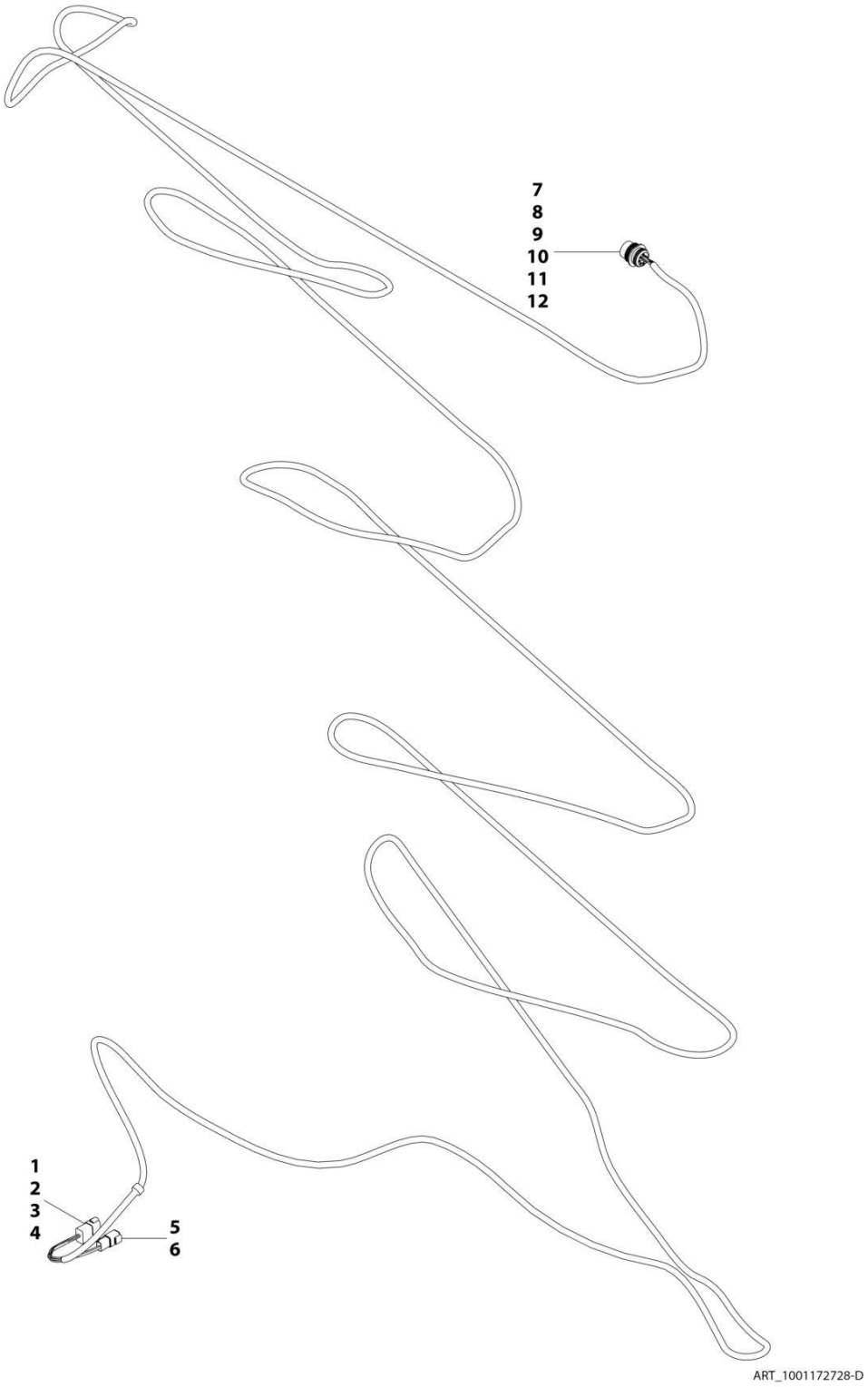


FIGURE 10-14. BOOM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172728	Ref	Boom Harness	D
1	4460931	1	Connector	
2	4460943	2	Terminal	
3	4460464	4	Terminal	
4	4460466	2	Plug	
5	4461017	1	Connector	
6	4460508	2	Terminal	
7	1001112612	1	Connector	
8	1001183221	1	Boot	
9	1001157891	1	Terminal	
10	4460464	4	Terminal	
11	4460943	2	Terminal	
12	4460466	1	Plug	

FIGURE 10-15. BOOM WORKLIGHT HARNESS (Prior to SN 0160076546)

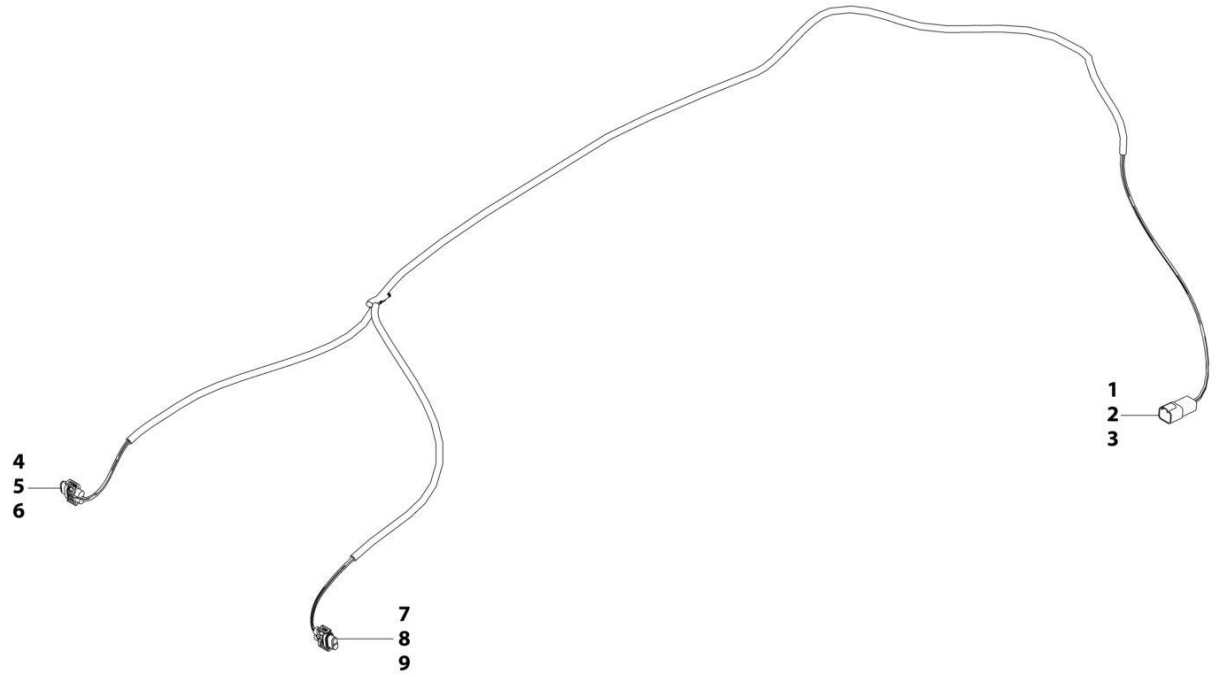


FIGURE 10-15. BOOM WORKLIGHT HARNESS (Prior to SN 0160076546)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173523	Ref	Boom Worklight Harness	B
1	4460932	1	Connector	
2	4460464	2	Terminal	
3	4460466	2	Plug	
4	4461115	1	Connector	
5	1001116728	2	Terminal	
6	4460458	2	Seal, Terminal	
7	4461115	1	Connector	
8	1001116728	2	Terminal	
9	4460458	2	Seal, Terminal	

FIGURE 10-16. BOOM WORKLIGHT HARNESS (SN 0160076546 to Present)

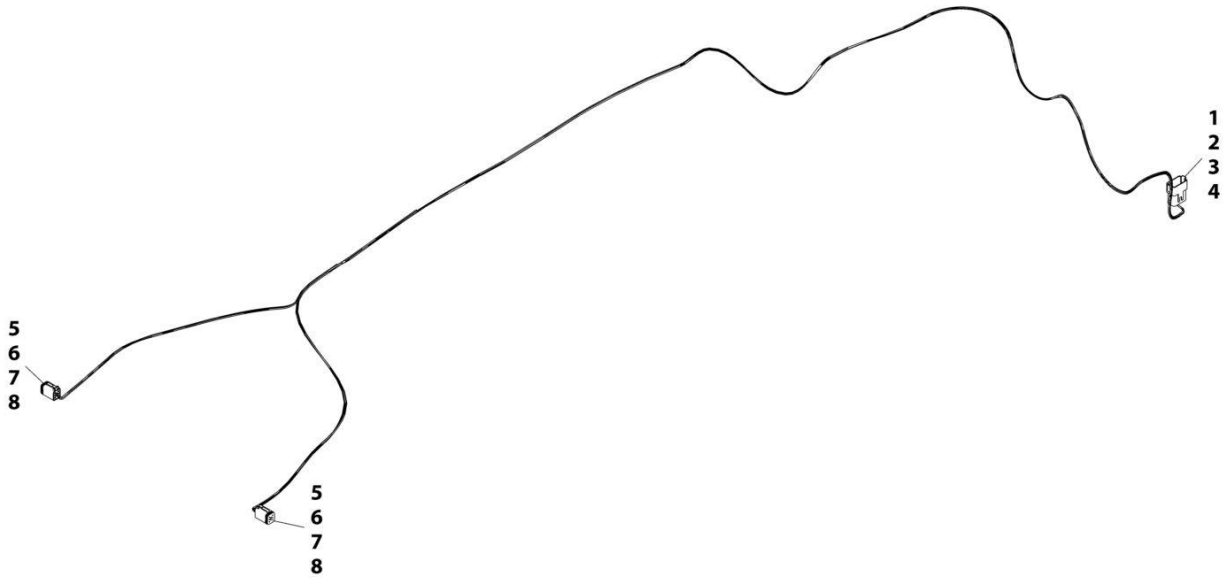


FIGURE 10-16. BOOM WORKLIGHT HARNESS (SN 0160076546 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167608	Ref	Boom Worklights Harness	E
1	4460932	1	Connector	
2	80604020	1	Lock, Connector	
3	4460464	2	Terminal	
4	4460466	2	Plug	
5	4461115	2	Connector	
6	1001103564	2	Lock, Terminal	
7	1001116728	2	Terminal	
8	4460458	2	Seal	

FIGURE 10-17. BOOM AUXILIARY ELECTRIC INSTALLATION

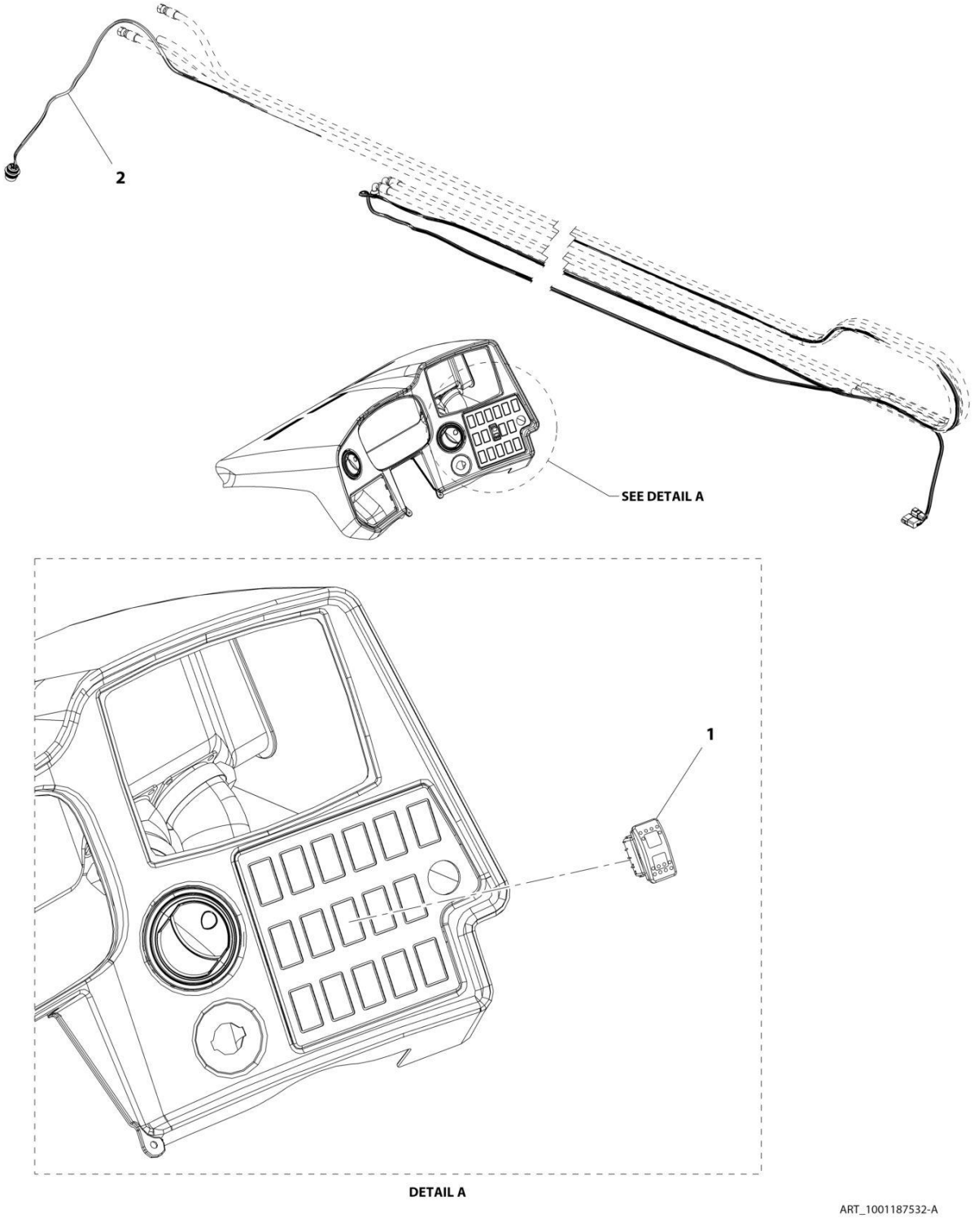


FIGURE 10-17. BOOM AUXILIARY ELECTRIC INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001187532	Ref	Boom Auxiliary Electric Installation	A
1	1001159746	1	Switch, Auxiliary Electric	
2	1001174426	1	Installation, Boom Electrical Harness (See Separate Breakdown in this Section)	

FIGURE 10-18. BOOM AUXILIARY ELECTRIC HARNESS INSTALLATION

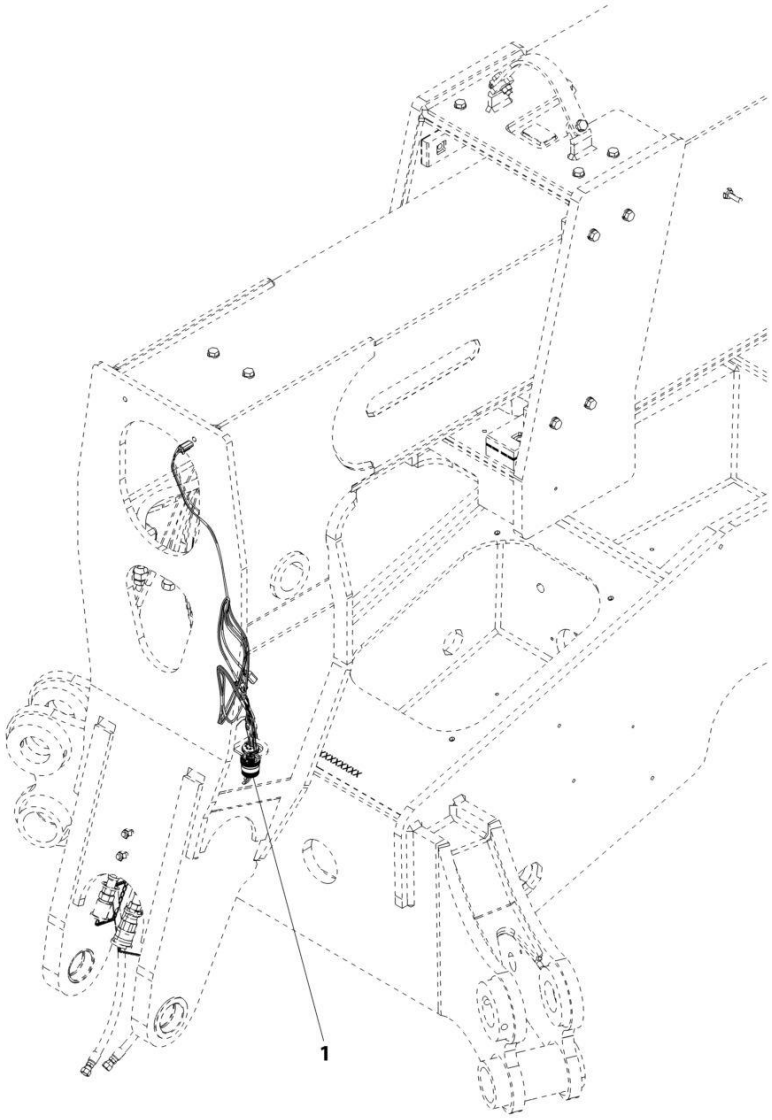


FIGURE 10-18. BOOM AUXILIARY ELECTRIC HARNESS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167799	Ref	Boom Auxiliary Electric Harness Installation	B
1	1001167695	1	Harness, Platform (See Separate Breakdown in this Section)	

FIGURE 10-19. CAB ELECTRICAL INSTALLATION

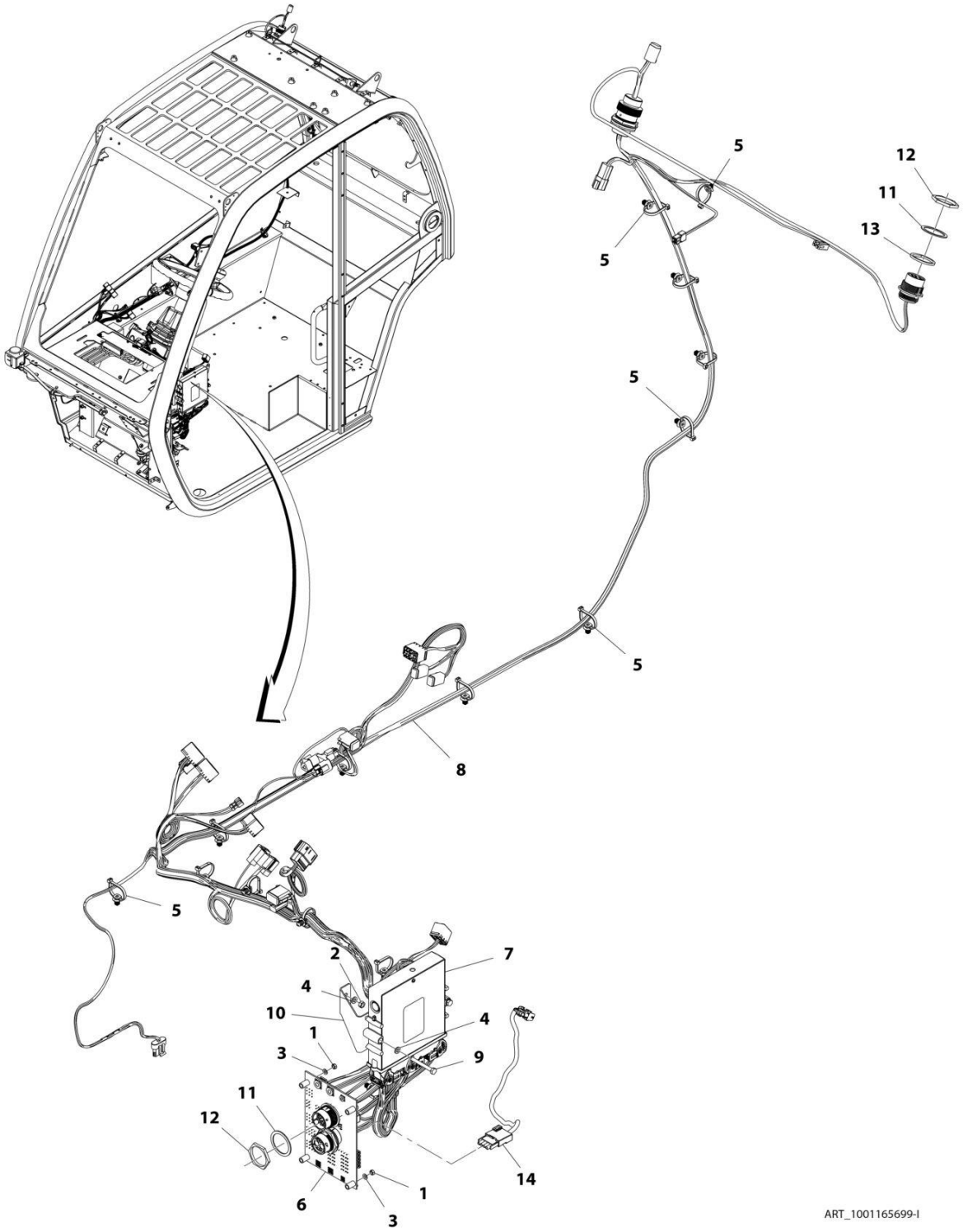


FIGURE 10-19. CAB ELECTRICAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165699	Ref	Cab Electrical Installation	I
1	3290501	3	Nut, M5X0.8	
2	3290601	2	Nut, M6X1	
3	120034	3	Washer, Plastic	
4	4811700	4	Washer, M6	
5	1001146588	16	Strap, Tie	
6	1001161769	1	Assembly, Standard Electrical Board (See Separate Breakdown in this Section)	
7	1001162249	1	Module	
8	1001196451	1	Harness, Cab (See Separate Breakdown in this Section)	
9	0700618	2	Bolt, M6X50	
10	1001178933	1	Bracket	
11	4460496	4	Washer, Terminal Lock	
12	4460497	4	Nut, Terminal	
13	1001211693	2	Seal	
14	1001213988	1	Cable (See Separate Breakdown in this Section)	

FIGURE 10-20. CLEARSKY INSTALLATION (A/C - LONG ROOF CAP)

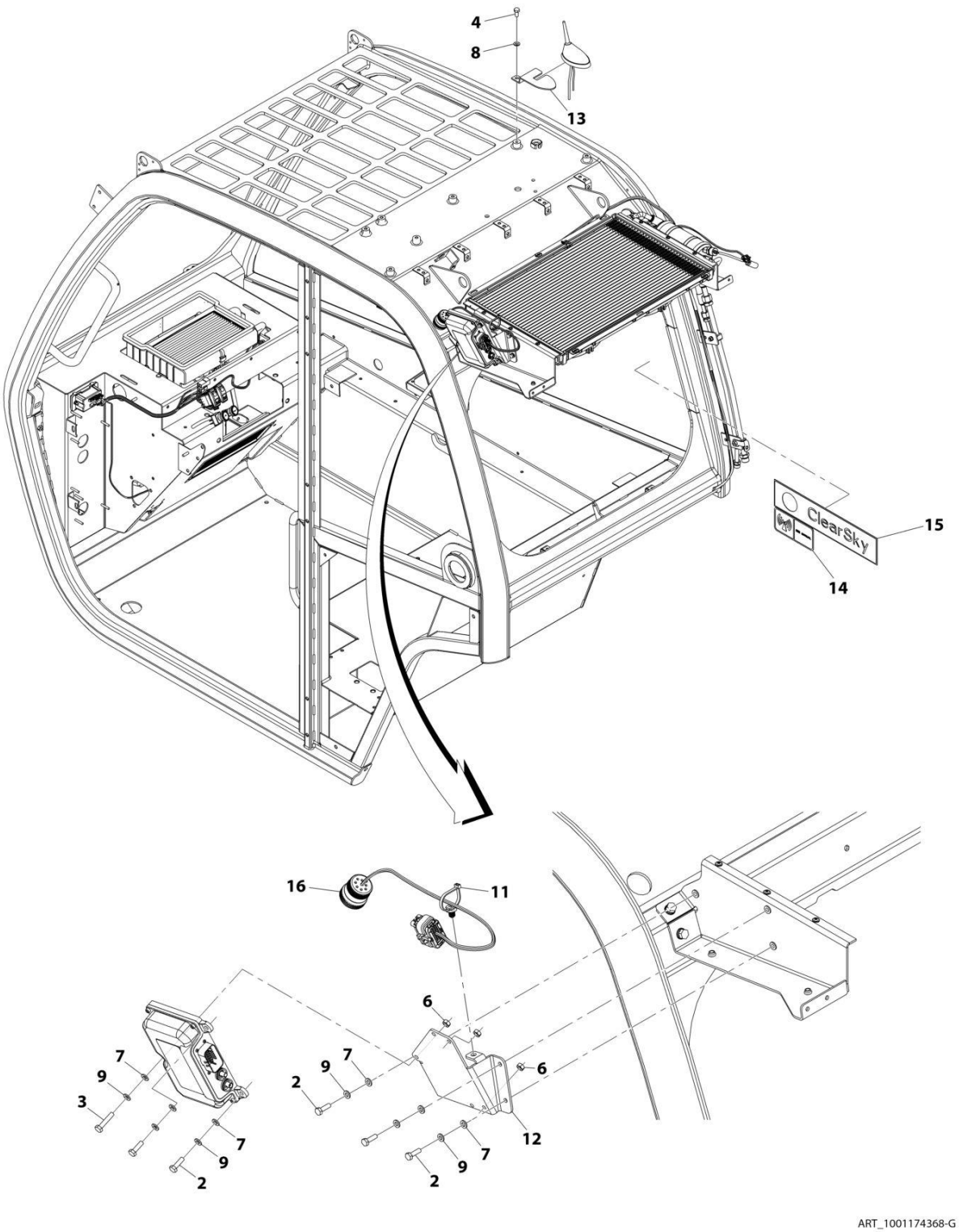


FIGURE 10-20. CLEARSKY INSTALLATION (A/C - LONG ROOF CAP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174368	Ref	Clearsky Installation (A/C - Long Roof Cap)	G
2	0700610	5	Bolt, M6X20	
3	0700614	1	Bolt, M6X30	
4	0760808	1	Bolt, M8X16	
6	3290601	3	Nut, M6X1 Grade 8	
7	4811700	6	Washer, M6	
8	4811900	1	Washer, M8	
9	4831700	6	Washer, Lock M6	
11	1001146588	1	Strap, Cable	
12	1001220947	1	Bracket	
13	1001174372	1	Bracket, Antenna	
14	1001120989	1	Decal, Radio Frequency	
15	1001116208	1	Decal, Clearsky	
16	1001196452	1	Harness, Clearsky (See Separate Breakdown in this Section)	

FIGURE 10-21. CLEARSKY INSTALLATION (NO A/C SHORT ROOF CAP)

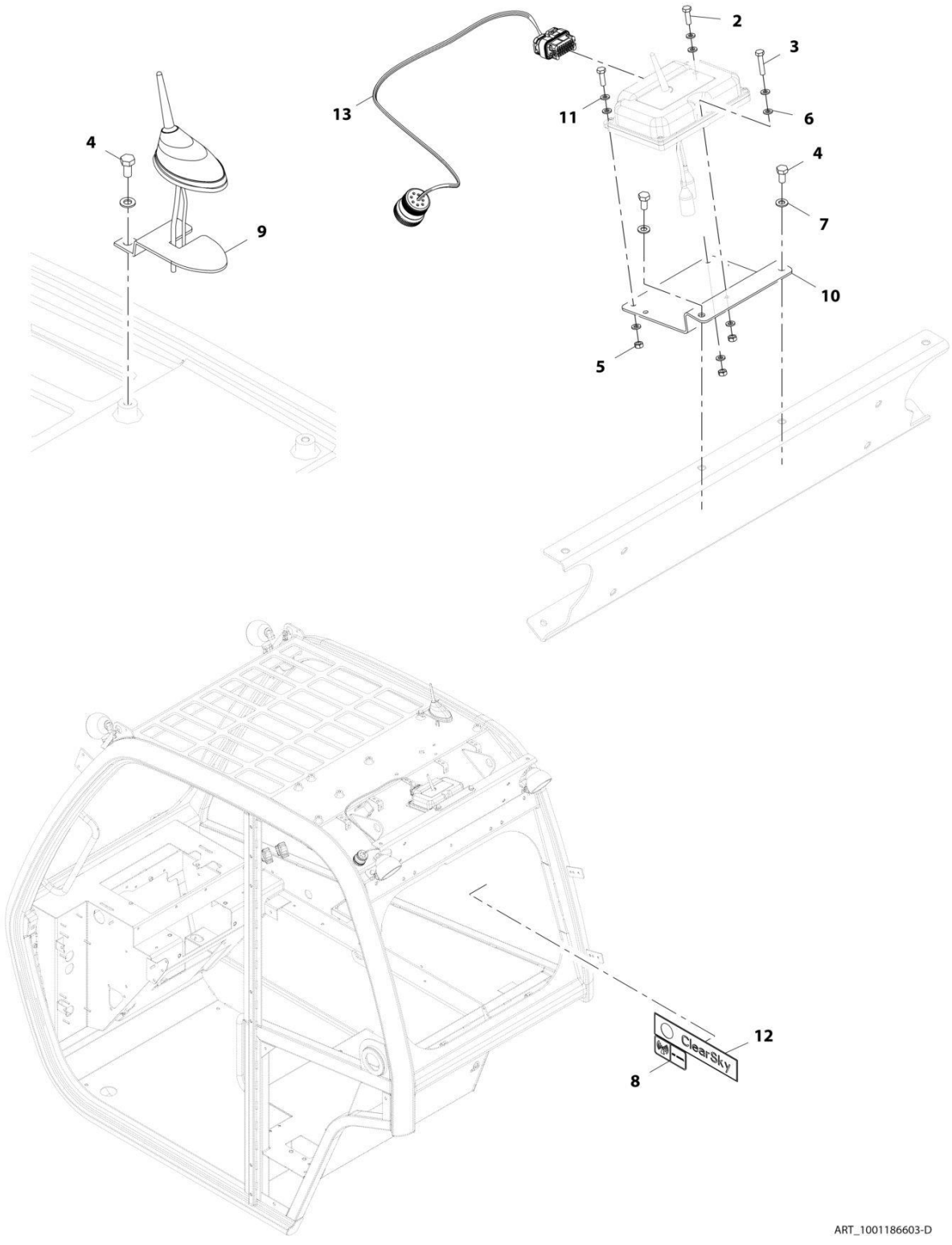


FIGURE 10-21. CLEARSKY INSTALLATION (NO A/C SHORT ROOF CAP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186603	Ref	Clearsky Installation (No A/C - Short Roof Cap)	D
2	0700610	2	Bolt, M6X20	
3	0700614	1	Bolt, M6X30	
4	0760808	3	Bolt, M8X16	
5	3290601	3	Nut, M6X1 Grade 8	
6	4811700	6	Washer, M6	
7	4811900	3	Washer, M8	
8	1001120989	1	Decal, Radio Frequency	
9	1001174372	1	Bracket, Antenna	
10	1001185722	1	Bracket	
11	4831700	3	Washer, Lock M6	
12	1001116208	1	Decal, Clearsky	
13	1001196452	1	Harness, Clearsky (See Separate Breakdown in this Section)	

FIGURE 10-22. CLEARSKY CONTROLLER

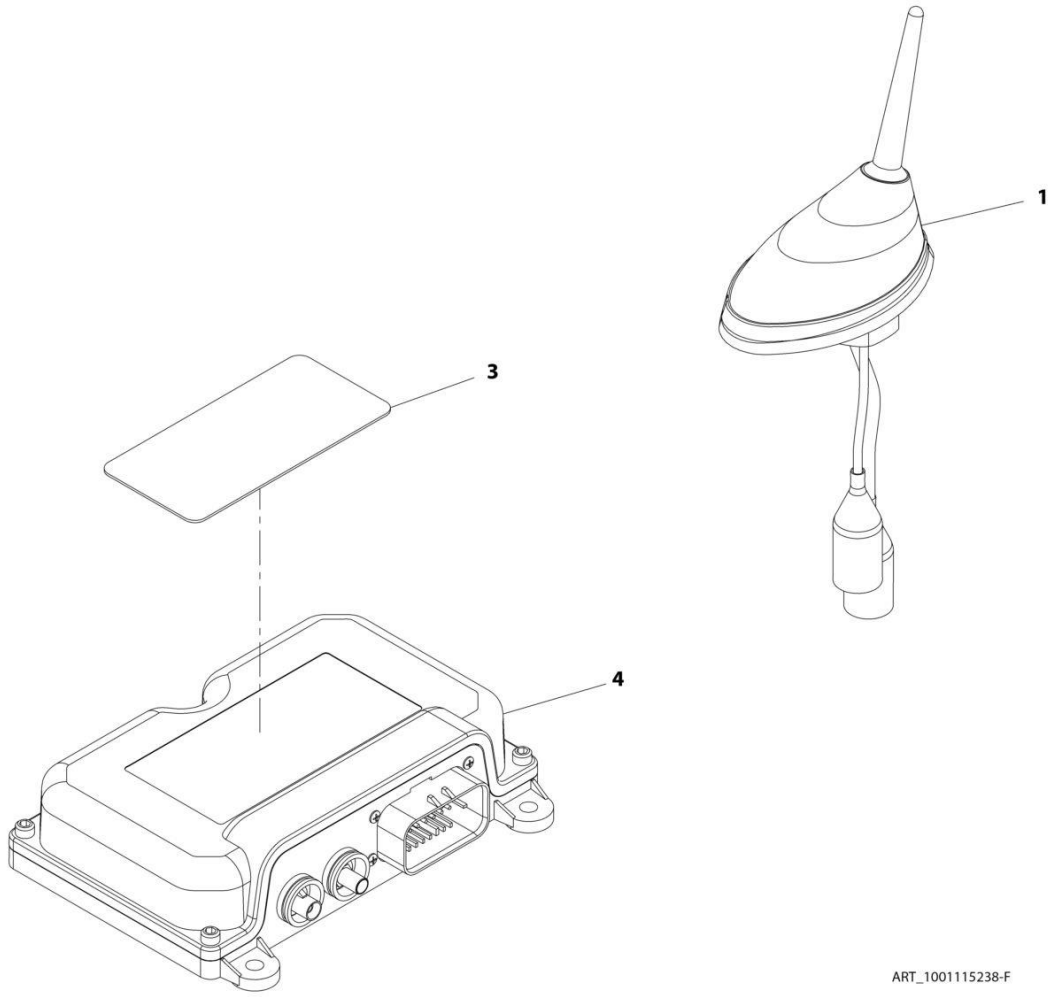


FIGURE 10-22. CLEARSKY CONTROLLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115238	1	ClearSky Controller	F
1	1001100443	1	Antenna	
3	1001140322	1	Decal	
4	1001151032	1	Controller	

FIGURE 10-23. CLEARSKY INSTALLATION 3-WIRE

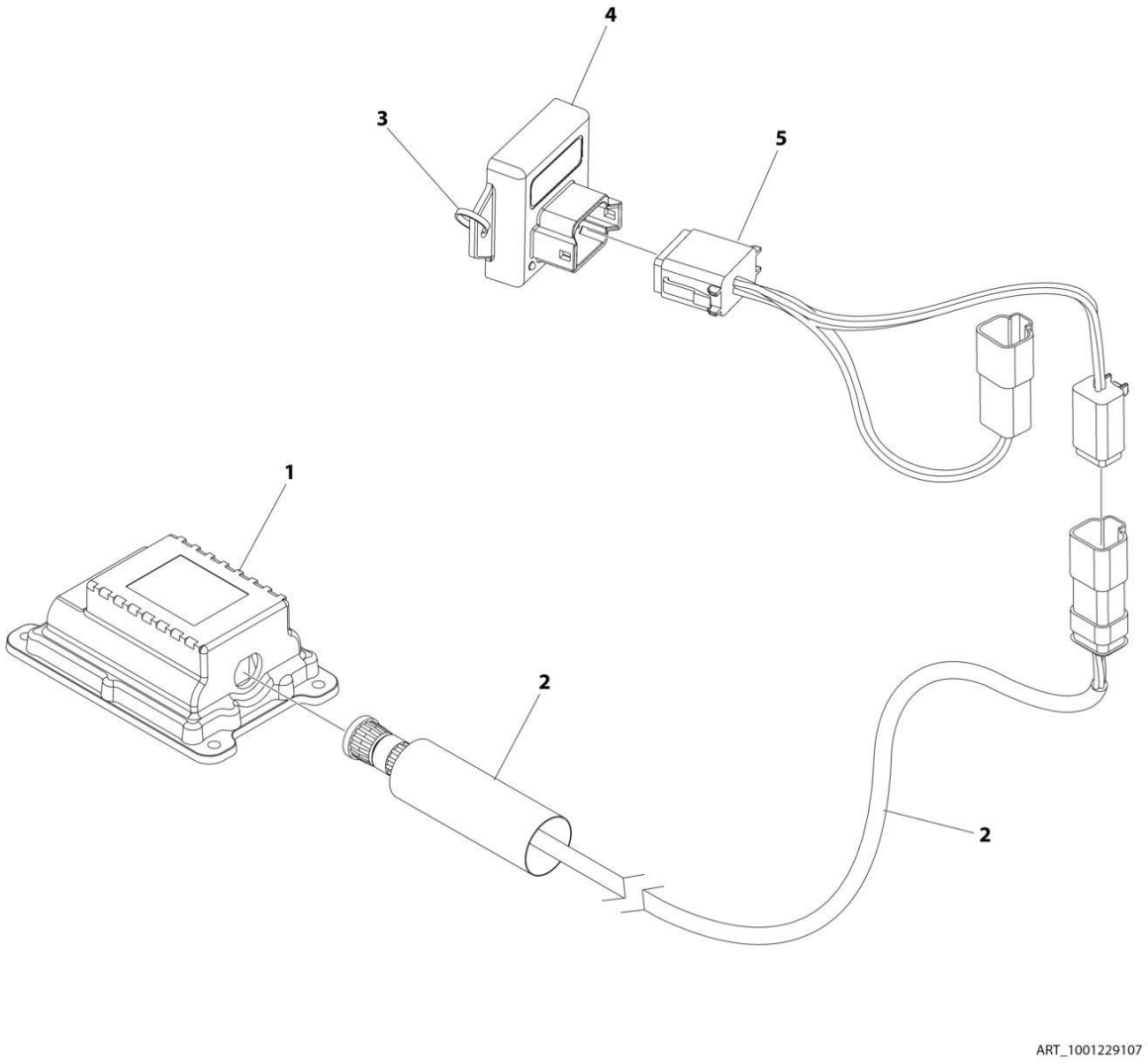


FIGURE 10-23. CLEARSKY INSTALLATION 3-WIRE

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

FIGURE 10-24. CLEARSKY TELEMATICS HARNESS

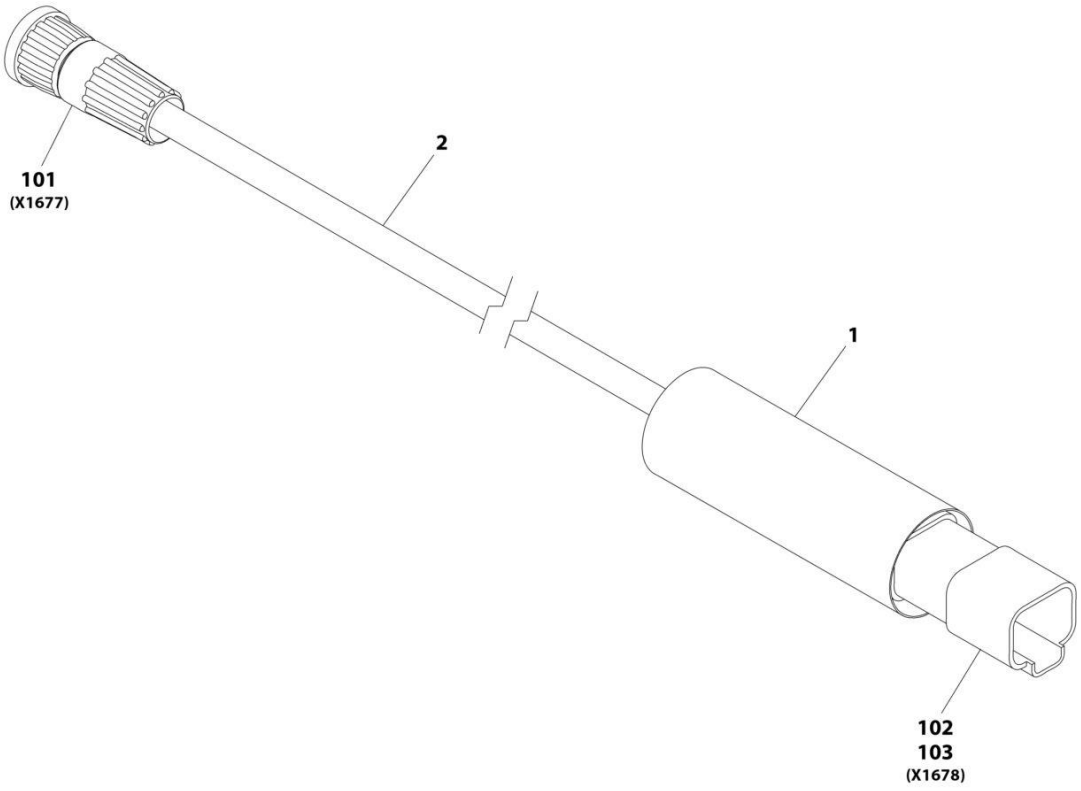


FIGURE 10-24. CLEARSKY TELEMATICS HARNESS

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

FIGURE 10-25. CAB WORKLIGHTS INSTALLATION (NO A/C)

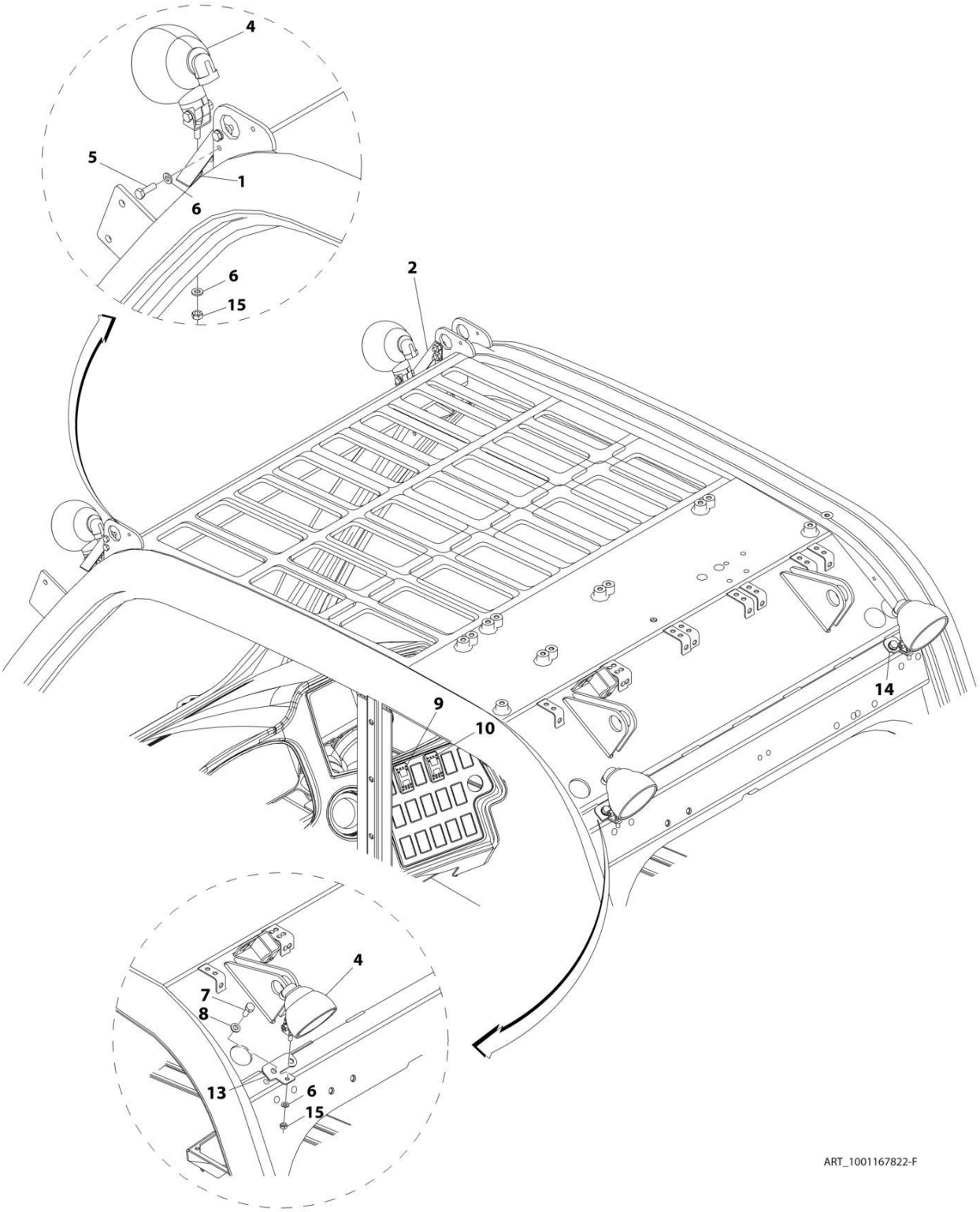


FIGURE 10-25. CAB WORKLIGHTS INSTALLATION (NO A/C)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167822	Ref	Cab Worklights Installation (No A/C)	F
1	1001186567	1	Bracket, Work Light LH	
2	1001186565	1	Bracket, Work Light RH	
4	2920206	4	Worklight	
5	0700610	4	Bolt, M6X20	
6	4811700	8	Washer, M6	
7	0760810	2	Bolt, M8X20	
8	4811900	2	Washer, M8	
9	1001159845	1	Switch, Front Worklights	
10	1001159846	1	Switch, Rear Worklights	
13	1001183888	1	Bracket, Work Light LH	
14	1001183890	1	Bracket, Work Light RH	
15	3290601	4	Nut, M6X1 Grade 8	

FIGURE 10-26. CAB WORKLIGHTS INSTALLATION (A/C)

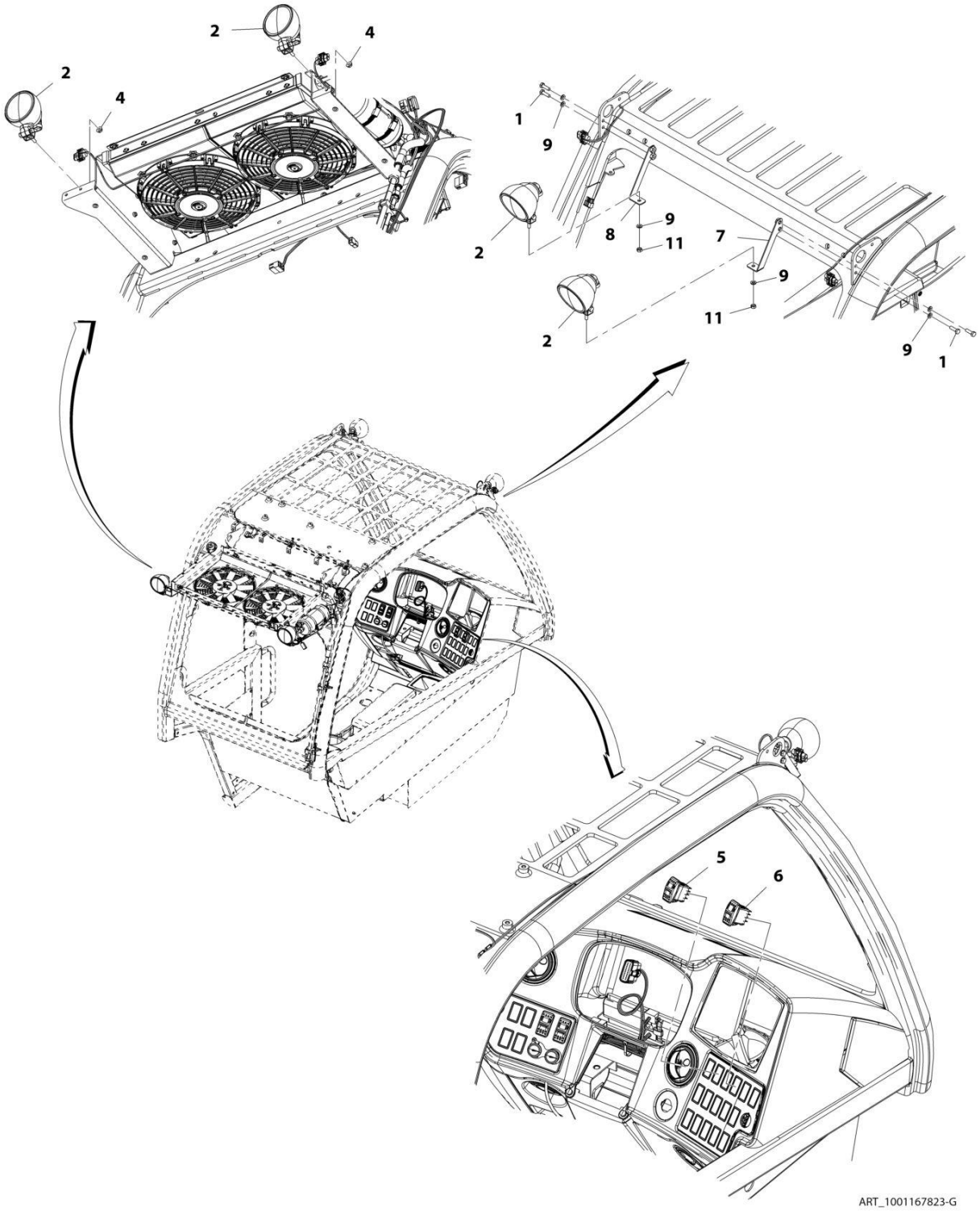


FIGURE 10-26. CAB WORKLIGHTS INSTALLATION (A/C)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167823	Ref	Cab Worklights Installation (A/C)	G
1	0700610	4	Bolt, M6X20	
2	2920206	4	Worklight	
4	5220600	2	Nut, M6	
5	1001159845	1	Switch, Front Worklights	
6	1001159846	1	Switch, Rear Worklights	
7	1001186567	1	Bracket, Work Light LH	
8	1001186565	1	Bracket, Work Light RH	
9	4811700	6	Washer, M6	
11	3290601	2	Nut, M6X1 Grade 8	

FIGURE 10-27. CAB HARNESS

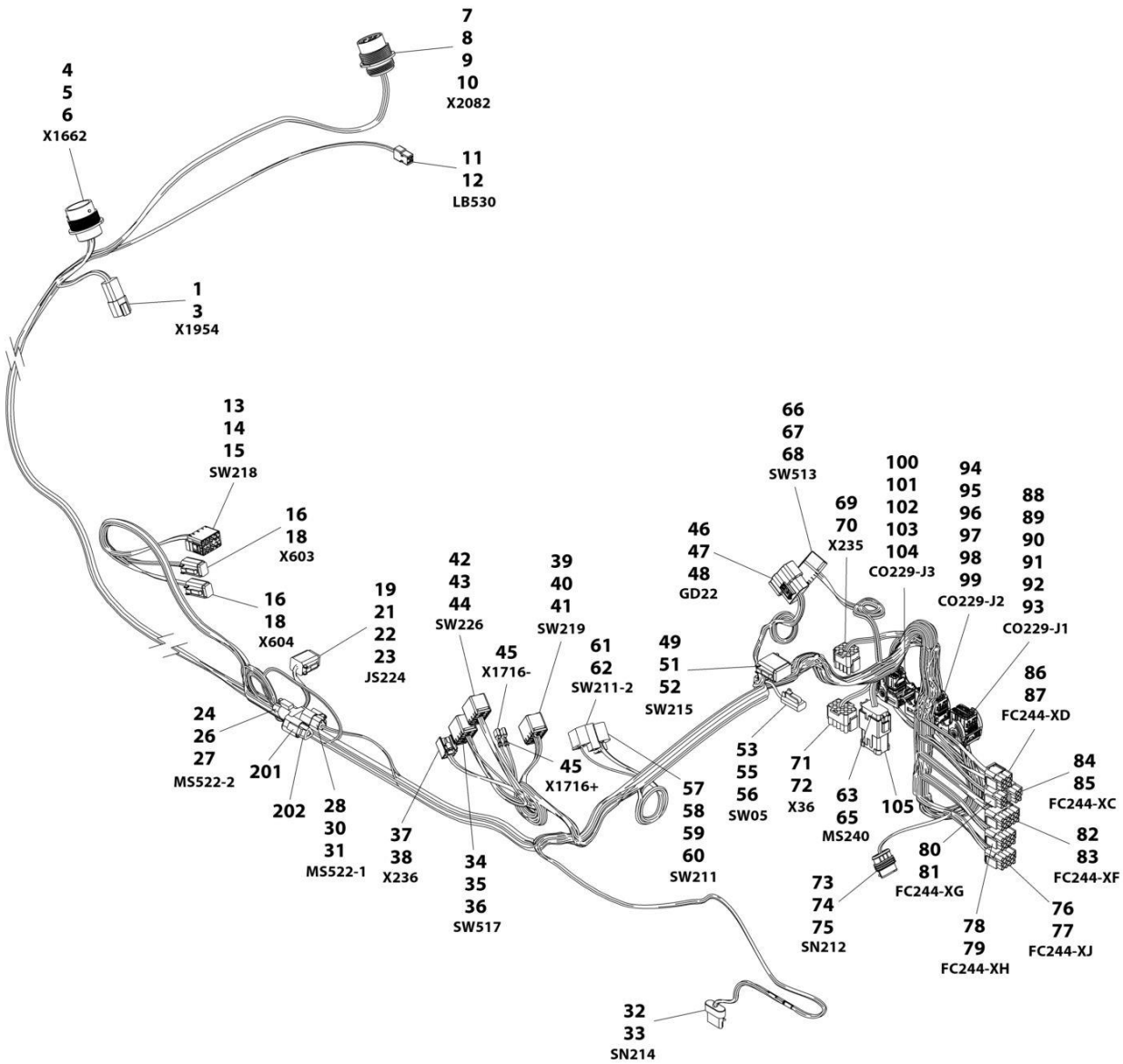


FIGURE 10-27. CAB HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196451	Ref	CAB HARNESS	E
1	4460932	1	Connector	
3	4460941	4	Terminal	
4	1001201081	1	Connector	
5	4460941	6	Terminal	
6	4460466	8	Plug	
7	1001112612	1	Connector	
8	4460464	3	Terminal	
9	4460943	2	Terminal	
10	4460466	4	Plug	
11	1001116991	1	Connector	
12	1001118384	2	Terminal	
13	1001117081	1	Connector	
14	1001118384	4	Terminal	
15	1001116723	2	Terminal	
16	4460884	2	Connector	
18	4460465	8	Terminal	
19	4460894	1	Connector	
21	4460465	3	Terminal	
22	4460944	2	Terminal	
23	4460466	1	Plug	
24	1001116812	1	Connector	
26	4460944	2	Terminal	
27	4460466	1	Plug	
28	4460539	1	Connector	
30	4460944	2	Terminal	
31	4460466	1	Plug	
32	1001230931	1	Connector	
33	1001116748	6	Terminal	
34	1001117081	1	Connector	
35	1001116723	6	Terminal	
36	1001118384	1	Terminal	
37	1001118684	1	Connector	
38	1001116754	2	Terminal	
39	1001117081	1	Connector	
40	1001118384	5	Terminal	
41	1001116723	6	Terminal	
42	1001117081	1	Connector	
43	1001118384	2	Terminal	
44	1001116723	4	Terminal	
45	8220051	2	Terminal, Female Blade	
46	1001162886	1	Connector	
47	1001162887	7	Terminal	
48	1001163340	13	Plug	
49	4460933	1	Connector	
51	4460465	9	Terminal	
52	4460466	3	Plug	
53	4460897	1	Connector	
55	4460464	1	Terminal	
56	4460466	1	Plug	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
57	1001118685	1	Connector	
58	1001116723	2	Terminal	
59	1001118383	1	Terminal	
60	1001118384	1	Terminal	
61	1001117121	1	Connector	
62	1001184841	1	Terminal	
63	4460930	1	Connector	
65	4460465	8	Terminal	
66	1001117081	1	Connector	
67	1001118384	2	Terminal	
68	1001116723	4	Terminal	
69	4460343	1	Connector	
70	4460268	8	Terminal	
71	4460434	1	Connector	
72	4460268	14	Terminal	
73	1001103012	1	Connector	
74	1001116697	2	Terminal	
75	1001116698	2	Plug	
76	4460343	1	Connector	
77	4460267	10	Terminal	
78	4460343	1	Connector	
79	4460268	9	Terminal	
80	4460225	1	Connector	
81	4460268	5	Terminal	
82	4460434	1	Connector	
83	4460268	10	Terminal	
84	4460225	1	Connector	
85	4460267	3	Terminal	
86	4460265	1	Connector	
87	4460268	5	Terminal	
88	1001160498	1	Connector	
89	1001161095	22	Terminal	
90	1001161098	5	Terminal	
91	1001161099	1	Terminal	
92	1001161100	2	Plug	
93	1001161101	2	Plug	
94	1001160502	1	Connector	
95	1001161095	17	Terminal	
96	1001161098	5	Terminal	
97	1001161099	1	Terminal	
98	1001161100	23	Plug	
99	1001161101	2	Plug	
100	1001161959	1	Connector	
101	1001161095	6	Terminal	
102	1001161098	1	Terminal	
103	1001161100	18	Plug	
104	1001161101	7	Plug	
105	4460984	1	Bussbar	
201	4460945	1	Connector - 3 Way Tee	
202	1001116815	1	Plug, Resistor	

FIGURE 10-28. CLEARSKY HARNESS (A/C)

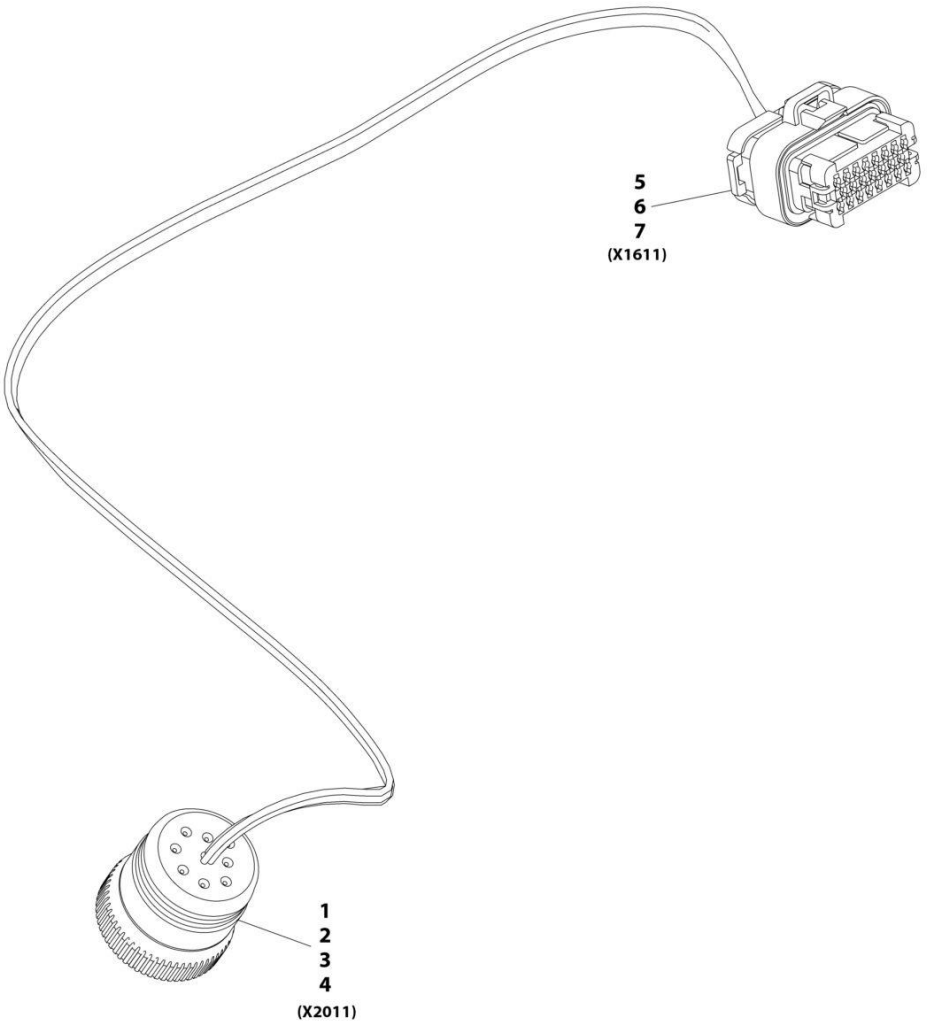


FIGURE 10-28. CLEARSKY HARNESS (A/C)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196452	Ref	Clearsky Harness (A/C)	A
1	1001112796	1	Connector	
2	4460465	3	Terminal	
3	4460944	2	Terminal	
4	4460466	4	Plug	
5	1001116994	1	Connector	
6	4460871	5	Terminal	
7	4460905	18	Plug	

FIGURE 10-29. CAB OPTION HARNESS

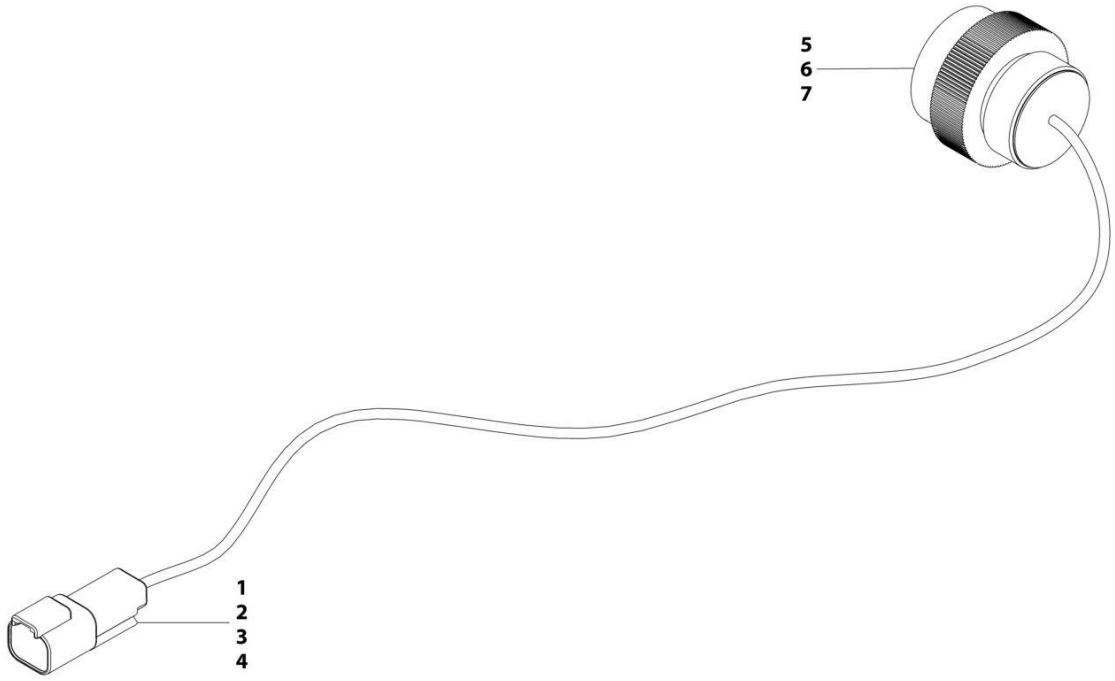


FIGURE 10-29. CAB OPTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181573	Ref	Cab Option Harness	B
1	4460897	1	Connector	
2	4460941	1	Terminal	
3	4460466	1	Seal	
4	80604017	1	Wedge Lock	
5	4461015	1	Connector	
6	4460466	13	Plug	
7	4460942	1	Terminal	

FIGURE 10-30. CUMMUNICATION ANALYSER CABLE

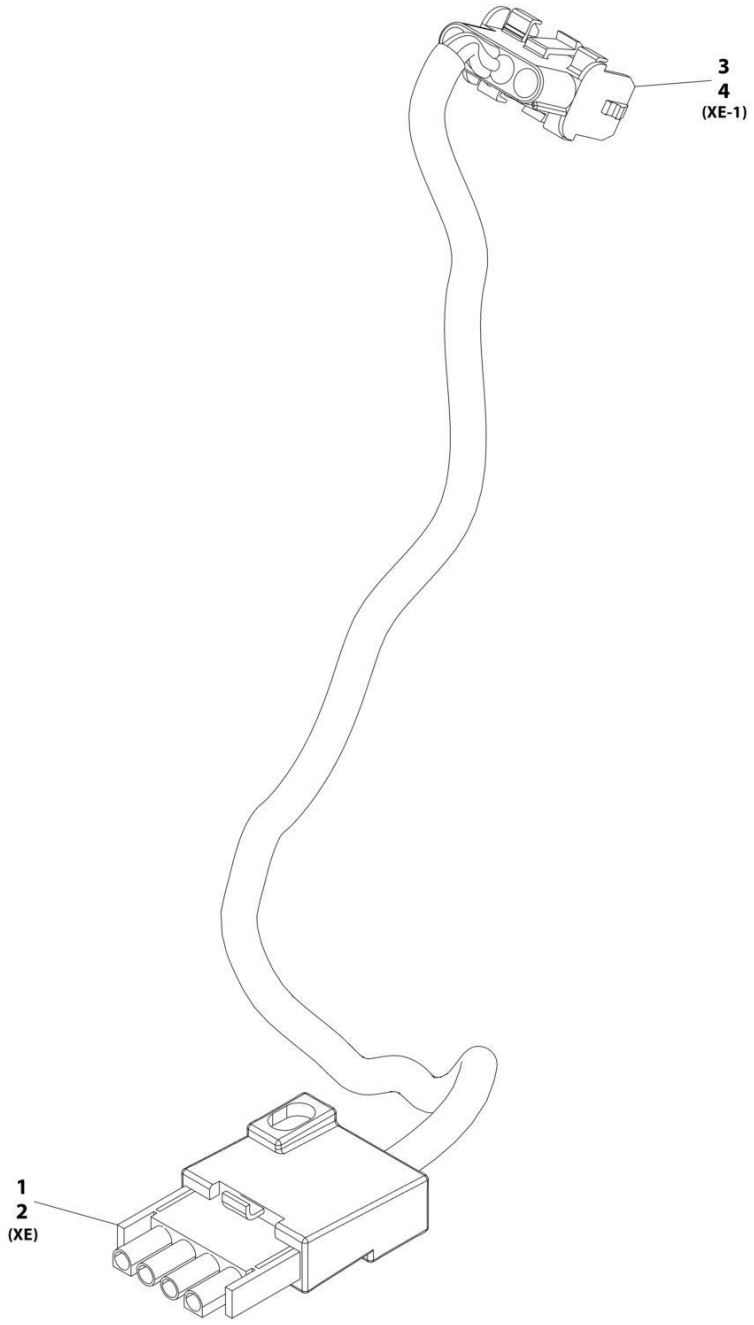


FIGURE 10-30. CUMMUNICATION ANALYSER CABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001213988	Ref	Communication Analyzer Cable	A
1	4460321	1	Connector	
2	4460268	4	Terminal	
3	4460761	1	Connector	
4	4460267	4	Terminal	

FIGURE 10-31. CUSTOMER SUPPLIED TELEMATICS CANBUS

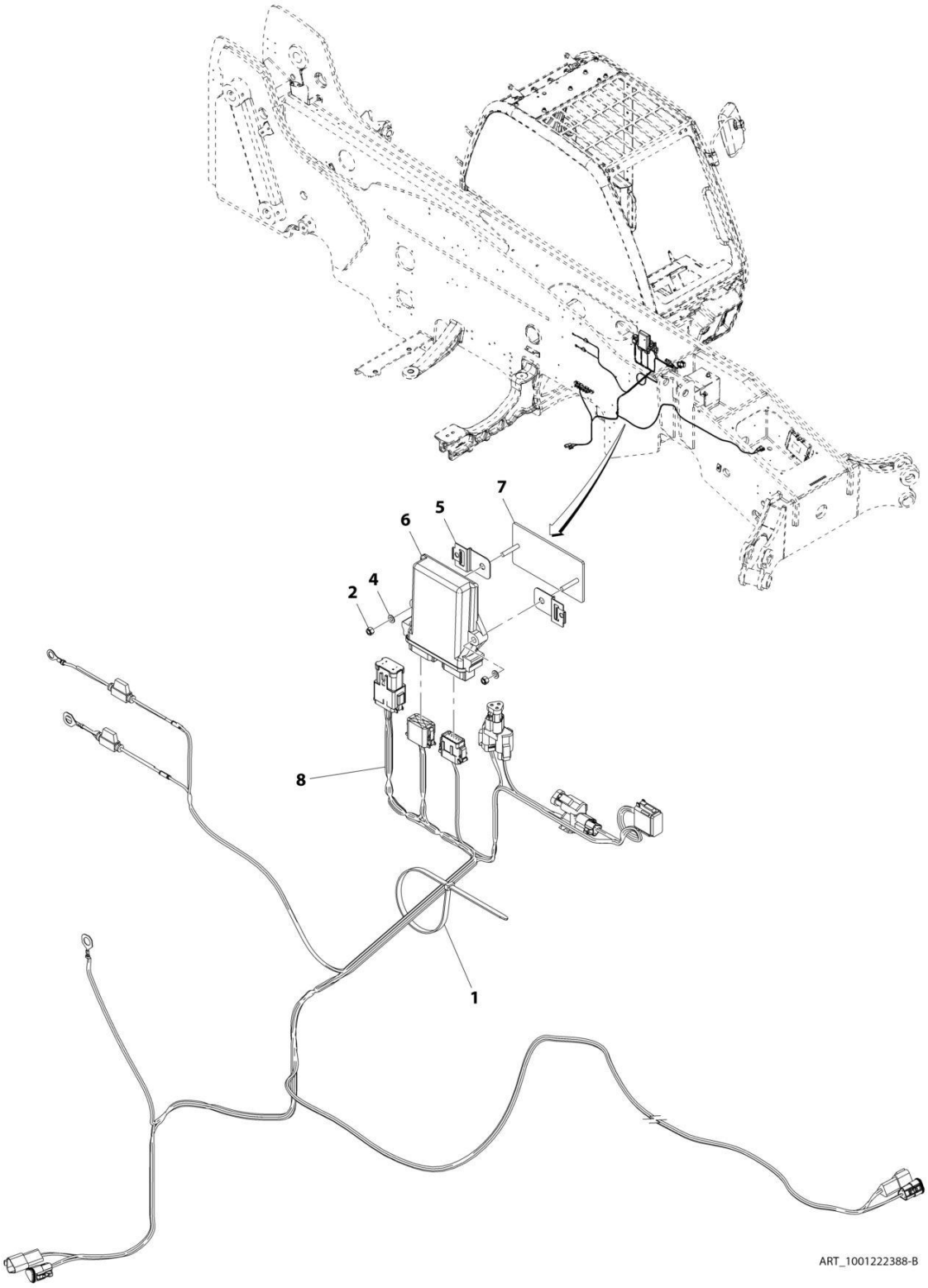


FIGURE 10-31. CUSTOMER SUPPLIED TELEMATICS CANBUS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222388	Ref	Customer Supplied Telematics Canbus	B
1	1062255	AR	Tie, Strap	
2	3290505	2	Nut, Lock M5X0.8	
4	4811600	2	Washer, M5	
5	1001153749	2	Clip	
6	1001229458	1	Controller, Gateway	
7	1001219082	1	Bracket	
8	1001225259	1	Harness, 4ward Telematics (See Separate Breakdown in this section)	

FIGURE 10-32. DASH ELECTRICAL INSTALLATION

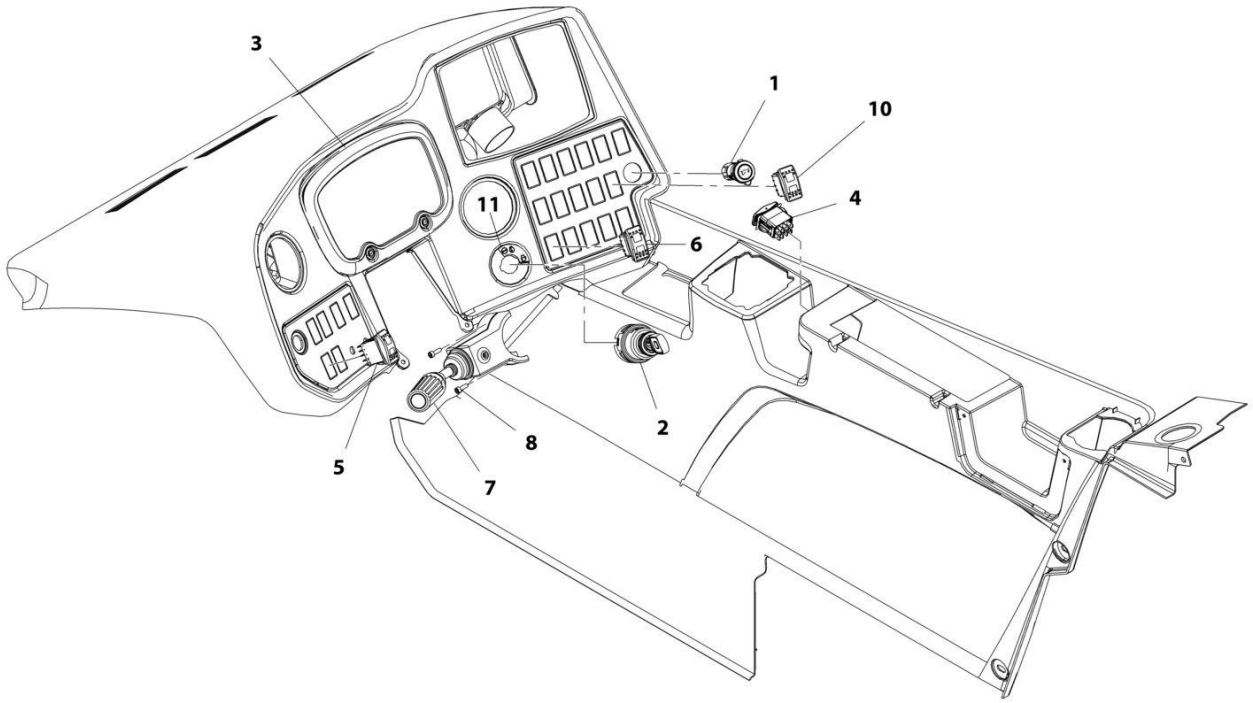


FIGURE 10-32. DASH ELECTRICAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173849	Ref	Dash Electrical Installation (if equipped for ULS)	G
1	1001095804	1	Connector, 12V Power Socket	
2	1001102502	1	Switch, 4 Position Key	
2	70022765	1	Key, Ignition	
3	1001158146	1	Cluster, Electrical Gauge	
4	1001212470	1	Switch, Frame Level	
5	1001159753	1	Switch, Park Brake	
6	1001159849	1	Switch, Steer Mode	
7	1001163698	1	Switch, FNR 4 Speed	
8	4031607	2	Screw, M5-0.8X16	
10	1001104654	1	Switch, AUX	
11	1001181531	1	Decal, Ignition Switch	

FIGURE 10-33. DAS ELECTRICAL INSTALLATION

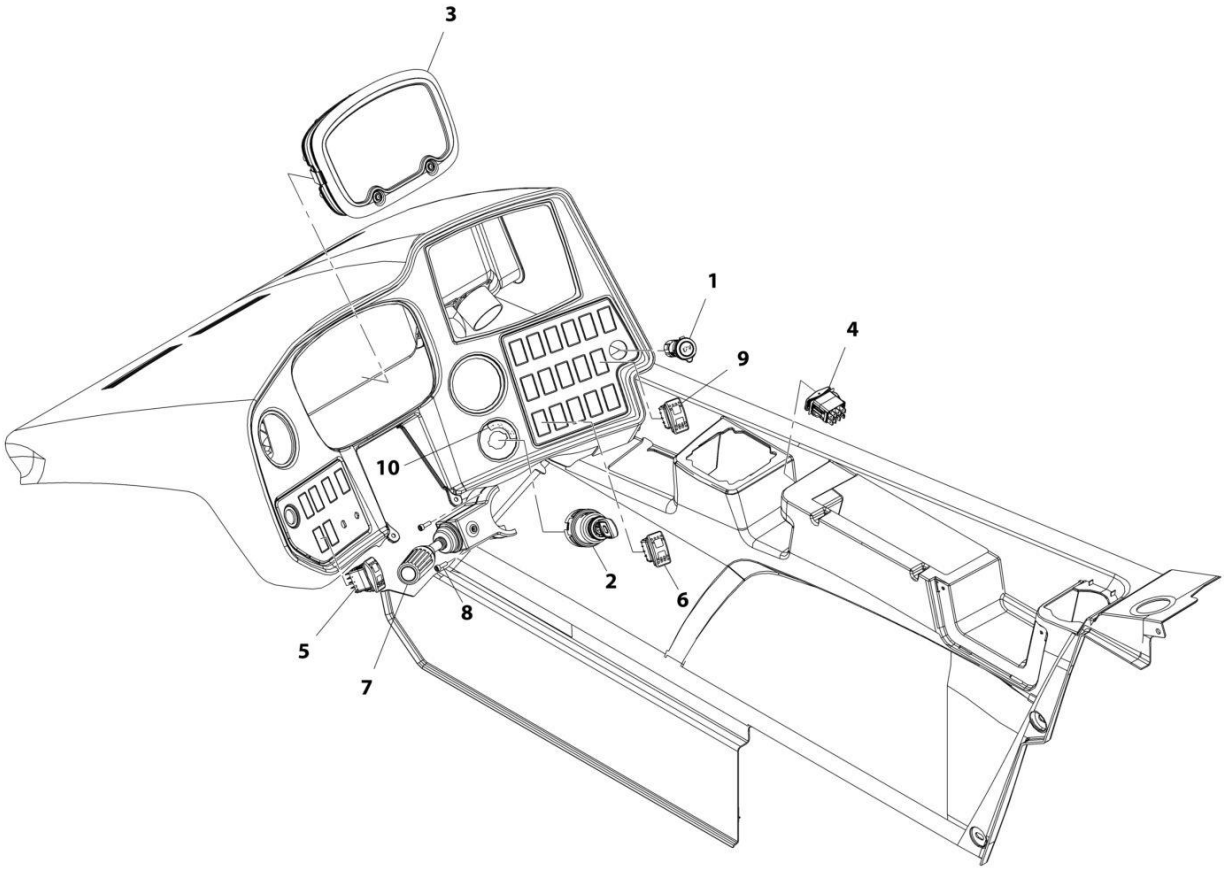


FIGURE 10-33. DAS ELECTRICAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001203225	Ref	Dash Electrical Installation (LS)	C
1	1001095804	1	Connector, 12V Power Socket	
2	1001102502	1	Switch, 4 Position Key	
2	70022765	1	Key, Ignition	
3	1001202454	1	Cluster, Electrical Gauge	
4	1001212470	1	Switch, Frame Level	
5	1001159753	1	Switch, Park Brake	
6	1001159849	1	Switch, Steer Mode	
7	1001163698	1	Switch, FNR 4 Speed	
8	4031607	2	Screw, M5X16	
9	1001104654	1	Switch, AUX	
10	1001181531	1	Decal, Ignition Switch	

FIGURE 10-34. DEF PURGE LIGHT HARNESS

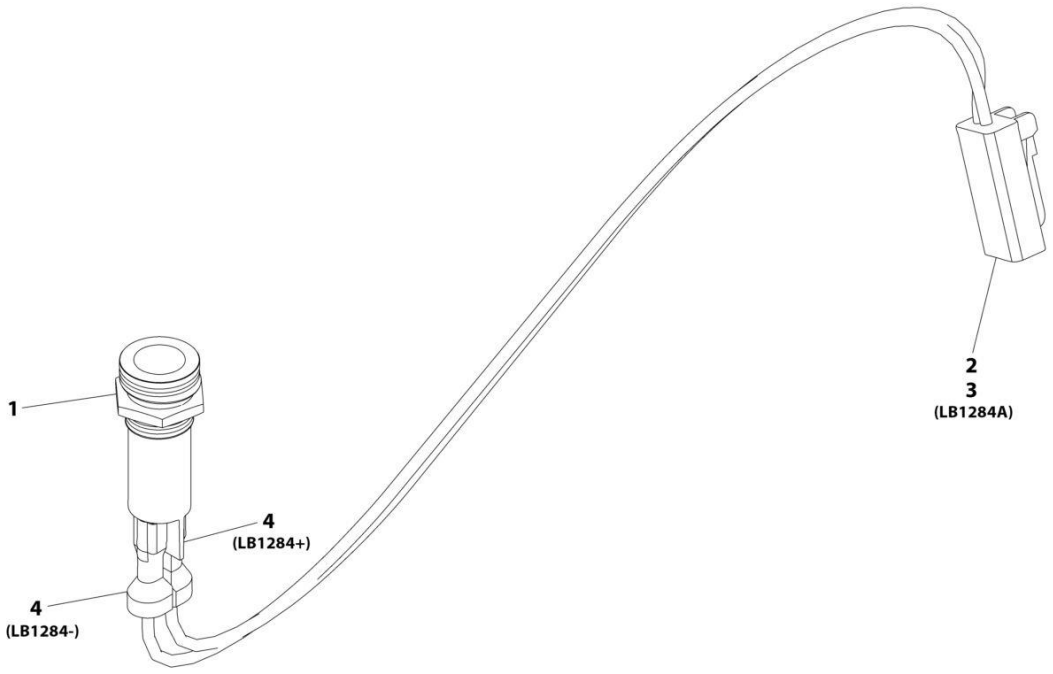
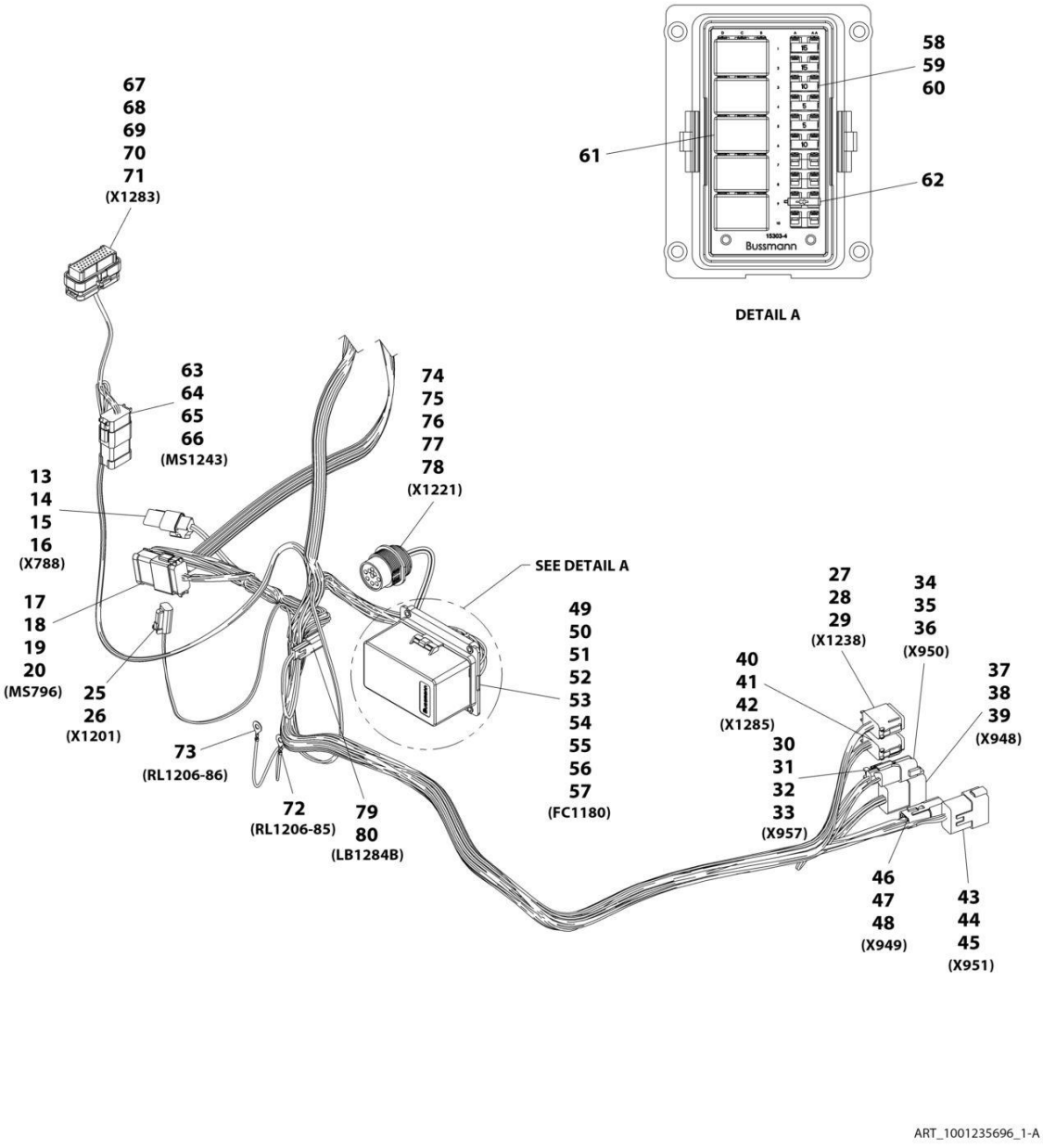


FIGURE 10-34. DEF PURGE LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232288	Ref	DEF Purge Light Harness	A
1	1001169825	1	LED Lamp 12V	
2	4461290	1	Connector	
3	1001126008	2	Terminal	
4	8220108	2	Connector	

FIGURE 10-35. ENGINE HARNESS (ULS)



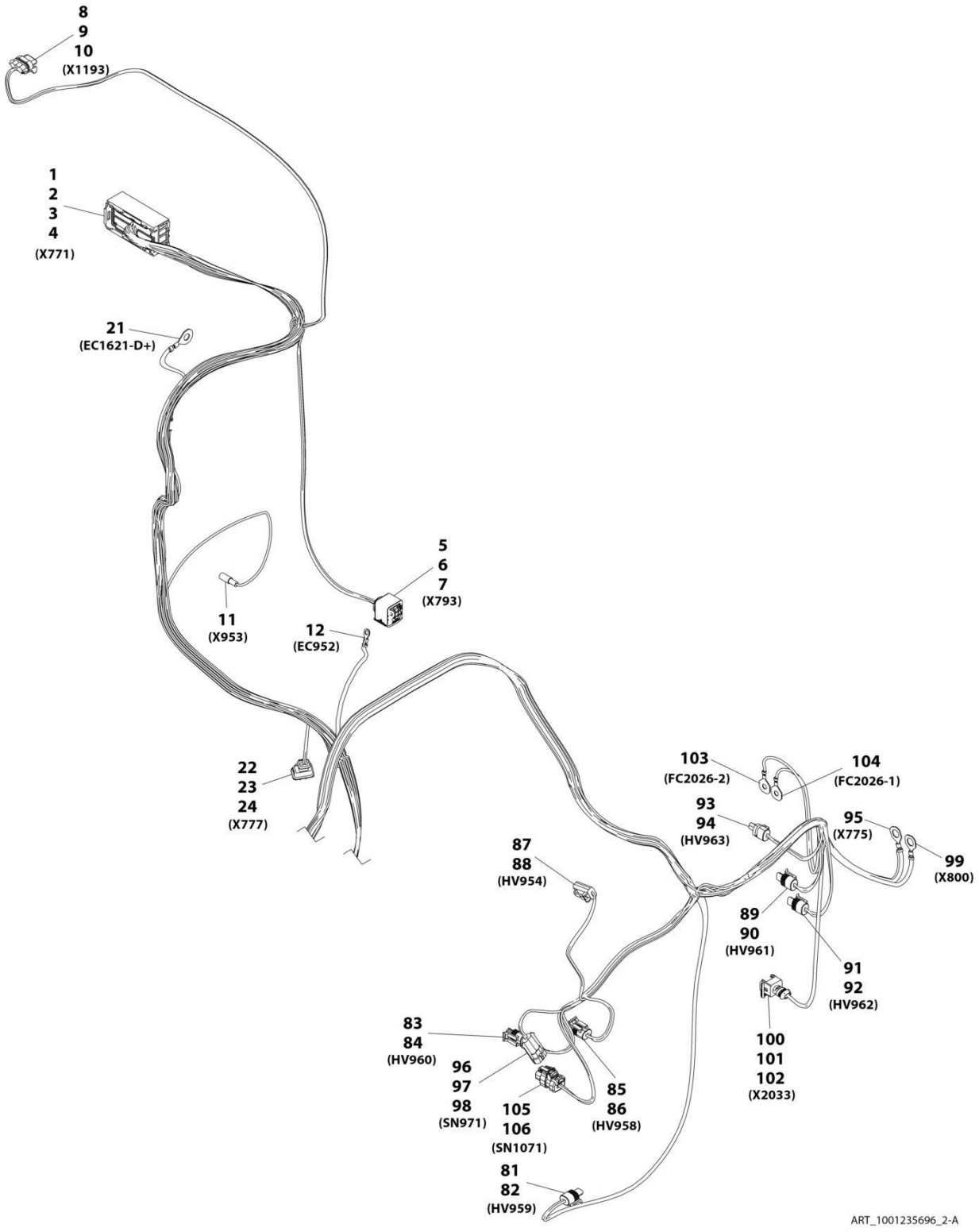

8
9
10
(X1193)
1
2
3
4
(X771)
21
(EC1621-D+)
5
6
7
(X793)
11
(X953)
12
(EC952)
22
23
24
(X777)
103
(FC2026-2)
104
(FC2026-1)
93
94
(HV963)
95
(X775)
99
(X800)
87
88
(HV954)
89
90
(HV961)
91
92
(HV962)
83
84
(HV960)
96
97
98
(SN971)
105
106
(SN1071)
85
86
(HV958)
100
101
102
(X2033)
81
82
(HV959)
ART_1001235696_2-A

FIGURE 10-35. ENGINE HARNESS (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001235696	Ref	Engine Harness (if equipped for ULS)	A
1	1001167641	1	Connector	
2	1001167648	9	Terminal	
3	1001167649	30	Terminal	
4	1001167650	59	Plug	
5	1001176935	1	Connector	
6	1001166704	4	Terminal	
7	4461006	4	Seal	
8	1001125027	1	Connector	
9	8220124	3	Terminal	
10	4460608	3	Seal	
11	1001117125	1	Terminal, Snap Plug	
12	1001197407	1	Ring, Terminal	
13	4461095	1	Connector	
14	4460944	2	Terminal	
15	4460466	1	Plug	
16	4461070	1	Connector	
17	4460933	1	Connector	
18	4460465	8	Terminal	
19	4460466	4	Plug	
20	1001125677	1	Connector	
21	1001187070	1	Ring, Terminal	
22	1001126487	1	Connector	
23	1001167656	2	Terminal	
24	1001167657	2	Seal	
25	4460891	1	Connector	
26	4460465	2	Terminal	
27	4460934	1	Connector	
28	4460465	10	Terminal	
29	4460466	2	Plug	
30	4460891	1	Connector	
31	4460465	2	Terminal	
32	4460466	2	Plug	
33	4460897	1	Connector	
34	1001144147	1	Connector	
35	4460464	2	Terminal	
36	4460466	1	Plug	
37	4460950	1	Connector	
38	4460464	9	Terminal	
39	4460466	3	Plug	
40	4460935	1	Connector	
41	4460465	11	Terminal	
42	4460466	1	Plug	
43	4460970	1	Connector	
44	4460464	8	Terminal	
45	4460466	4	Plug	
46	1001116811	1	Connector	
47	4460508	3	Terminal	
48	1001150610	1	Terminal	
49	1001167616	1	Connector	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001190921	1	Seal, Foam Fuse Box	
51	8220098	3	Terminal	
52	4460789	9	Seal	
53	8220097	29	Terminal	
54	4460458	23	Seal	
55	4460748	11	Plug	
56	1001116725	2	Terminal	
57	80963067	2	Plug	
58	8229244	2	Fuse, 15amp	
59	80983191	2	Fuse, 10amp	
60	8229242	2	Fuse, 5amp	
61	1001205172	5	Relay, 35amp	
62	1001177597	1	Diode, 6amp	
63	4460930	1	Connector	
64	4460465	6	Terminal	
65	4460466	2	Plug	
66	4460984	1	Bussbar	
67	1001125083	1	Connector	
68	1001195782	7	Plug	
69	1001195781	14	Plug	
70	1001125085	2	Terminal	
71	1001125089	1	Terminal	
72	1001187070	1	Ring, Terminal	
73	1001187070	1	Ring, Terminal	
74	1001112612	1	Connector	
75	4469464	4	Terminal	
76	4460466	5	Plug	
77	4460497	1	Nut	
78	4460496	1	Lockwasher	
79	1001153612	1	Connector	
80	1001126011	1	Connector	
81	4460955	1	Connector	
82	1001116748	2	Connector	
83	4460955	1	Connector	
84	1001116748	2	Terminal	
85	4460955	1	Connector	
86	1001116748	2	Terminal	
87	4460891	1	Connector	
88	4460465	2	Terminal	
89	4460955	1	Connector	
90	1001116748	2	Terminal	
91	4460955	1	Connector	
92	1001116748	2	Terminal	
93	4460955	1	Connector	
94	1001116748	2	Terminal	
95	1001187080	1	Ring, Terminal	
96	1001117073	1	Connector	
97	1001116749	2	Terminal	
98	4460608	2	Seal	
99	1001187079	1	Ring, Terminal	
100	1001190322	1	Connector	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	4461005	2	Terminal	
102	4461054	2	Seal	
103	1001207171	1	Ring, Terminal	
104	1001207171	1	Ring, Terminal	
105	1001116950	1	Connector	
106	4460465	2	Terminal	

FIGURE 10-36. ENGINE AIR SHUT OFF VALVE HARNESS (1043,642,742,943)

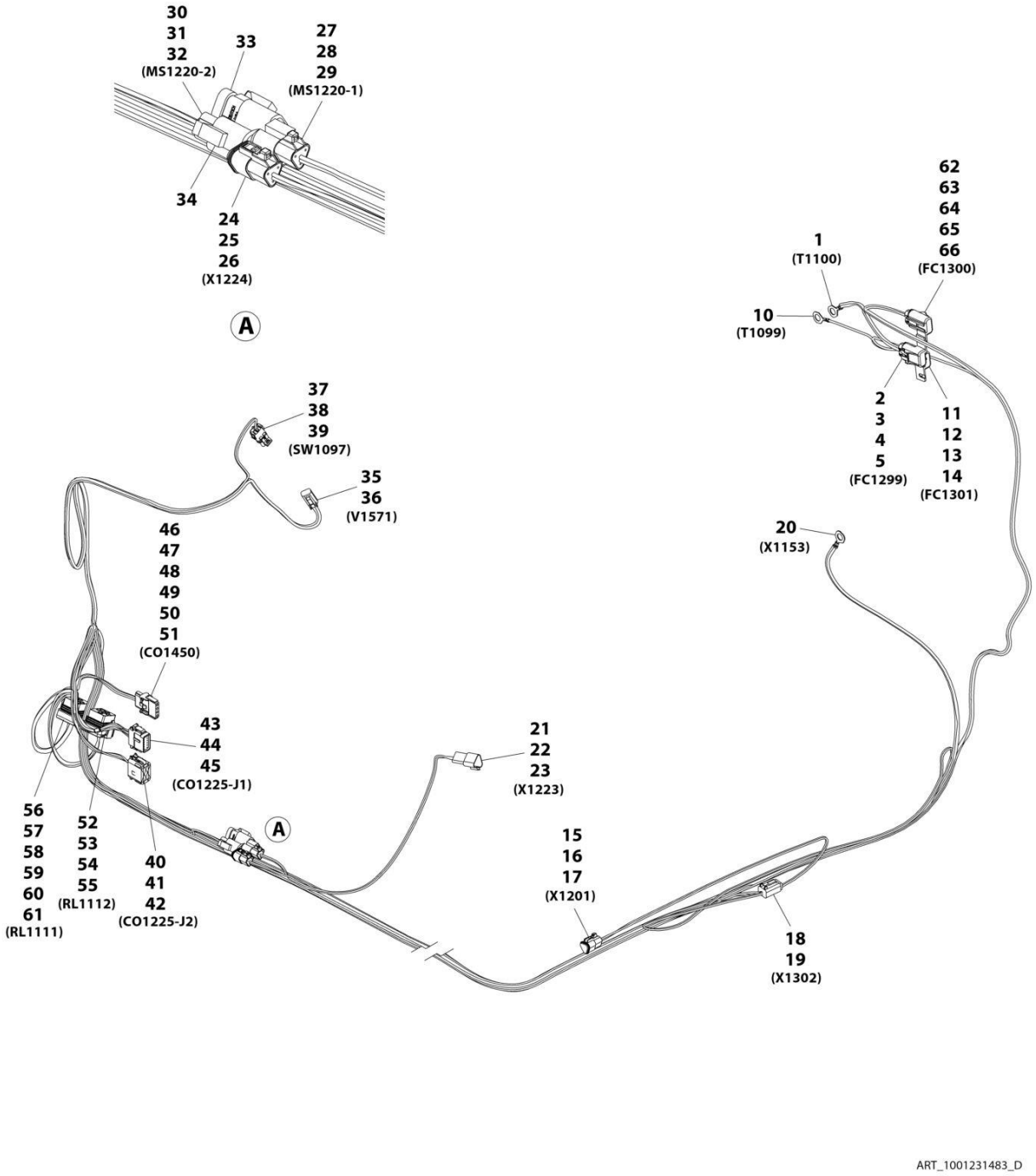


FIGURE 10-36. ENGINE AIR SHUT OFF VALVE HARNESS (1043,642,742,943)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231483	Ref	Air Shut Off Valve Harness (Engine)	D
1	1001187079	1	Terminal, Ring	
2	1001231397	1	Connector	
3	8229235	1	Fuse, 20amp	
4	1001231401	2	Terminal	
5	1001230402	2	Seal	
10	1001187078	1	Terminal, Ring	
11	1001231397	1	Connector	
12	8229261	1	Fuse, 5amp	
13	1001231400	2	Terminal	
14	1001230403	2	Seal	
15	1001116812	1	Connector	
16	4460465	2	Terminal	
17	4460466	1	Plug	
18	4460884	1	Connector	
19	4460465	4	Terminal	
20	1001187079	1	Terminal, Ring	
21	1001144147	1	Connector	
22	4460464	2	Terminal	
23	4460466	1	Plug	
24	1001116812	1	Connector	
25	4460465	2	Terminal	
26	4460466	1	Plug	
27	1001116812	1	Connector	
28	4460465	2	Terminal	
29	4460466	1	Plug	
30	4460539	1	Connector	
31	4460465	2	Terminal	
32	4460466	1	Plug	
33	1001116815	1	Connector, 3 Pin	
34	4460945	1	Terminal, 3 Way "T" Receptacle	
35	4460891	1	Connector	
36	1001157890	2	Terminal	
37	4460742	1	Connector	
38	4460475	2	Terminal	
39	4460458	2	Plug	
40	1001116774	1	Connector	
41	4460518	8	Plug	
42	1001126008	4	Terminal	
43	1001116808	1	Connector	
44	1001126008	9	Terminal	
45	4460518	3	Plug	
46	4460761	1	Connector	
47	4460321	1	Terminal	
48	1001118378	4	Terminal	
49	4460809	4	Plug	
50	1001143551	1	Seal	
51	1001218358	1	Lanyard Rope	
52	1001231398	1	Connector	
53	1001231400	4	Terminal	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54	1001231404	4	Seal	
55	1001231406	1	Plug	
56	1001231398	1	Connector	
57	1001231401	2	Terminal	
58	1001231402	2	Seal	
59	1001231400	2	Terminal	
60	1001231404	2	Seal	
61	1001231406	1	Plug	
62	1001231397	1	Connector	
63	8229234	1	Fuse, 10amp	
64	1001231400	2	Terminal	
65	1001230403	1	Seal	
66	1001230404	1	Seal	

FIGURE 10-37. ELECTRICAL FRAME INSTALLATION

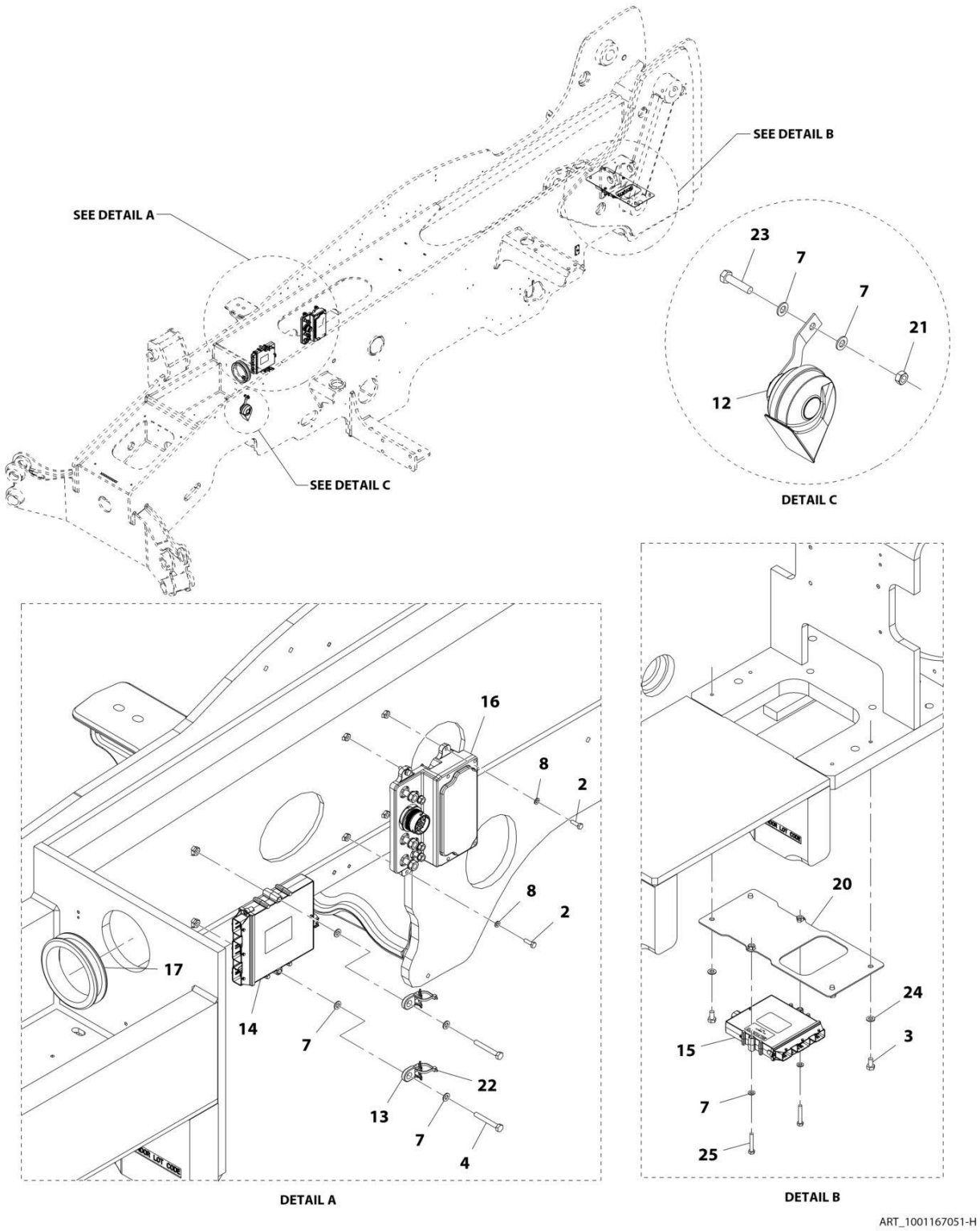


FIGURE 10-37. ELECTRICAL FRAME INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167051	Ref	Electrical Frame Installation	H
2	0700610	4	Bolt, M6 X 20	
3	0761010	4	Bolt, M10 X 20	
4	0700820	2	Bolt, M8 X 60	
7	4811900	8	Washer, M8	
8	4811700	4	Washer, M6	
12	10713707	1	Horn	
13	1001169146	2	Mount	
14	1001162253	1	Module, Front Frame Control	
15	1001162256	1	Module, Rear Frame Control	
16	1001164402	1	Box, Power Distribution Electrical (See Separate Breakdown in this Section)	
17	1001166397	1	Grommet	
20	1001210450	1	Plate, Mounting	
21	3290801	1	Nut, M8X1.25	
22	1001008559	2	Strap, Cable	
23	0760815	1	Bolt, M8X35	
24	4812000	4	Washer, M10	
25	0700818	2	Bolt, M8X50	

FIGURE 10-38. ENGINE BAY WIRING INSTALLATION (ULS)

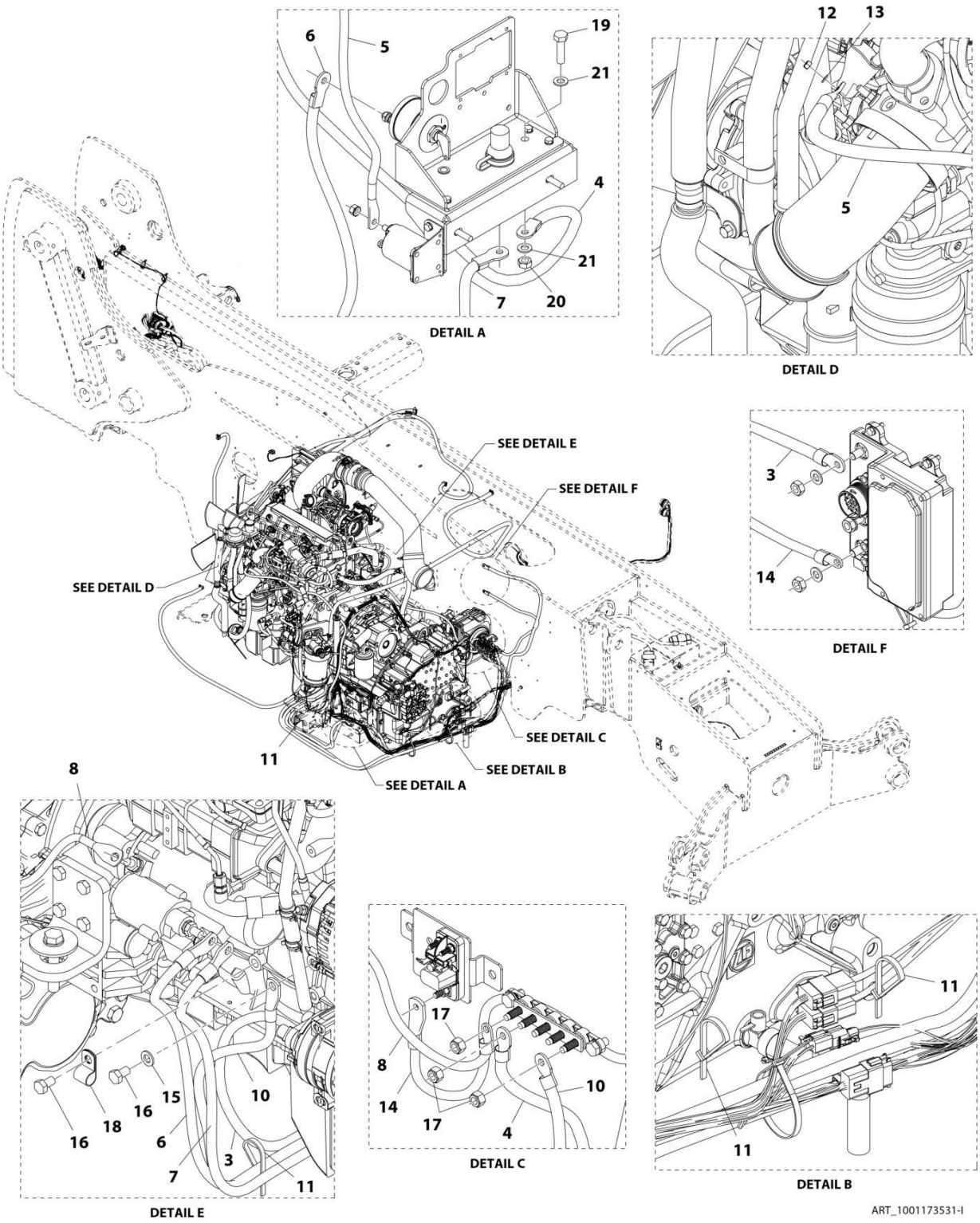


FIGURE 10-38. ENGINE BAY WIRING INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173531	Ref	Engine Bay Wiring Installation (ULS)	I
3	1001170215	1	Cable, PDM to ALT+	
4	1001200102	1	Cable, Ground Buss to Remote Ground	
5	1001170816	1	Cable, Grid Heater	
6	1001170740	1	Cable, Starter to Battery Disconnect	
7	1001170741	1	Cable, Starter to Remote B+	
8	1001170320	1	Cable, Starter Ground	
10	1001170749	1	Cable, Engine Ground	
11	1001008559	5	Strap, Cable	
12	3290605	1	Nut, Lock M6X1	
13	4811700	1	Washer, M6	
14	1001190585	1	Cable, Glow Plug	
15	4812100	1	Washer, M12	
16	0761210	2	Bolt, M12X20	
17	3291005	3	Nut, Lock M10X1.5	
18	8406105	1	Clip, Tube	
19	0701016	1	Bolt, M10X40	
20	3291001	1	Nut, M10X1.5	
21	4812000	2	Washer, M10	

FIGURE 10-39. ENGINE BAY WIRING INSTALLATION (LS)

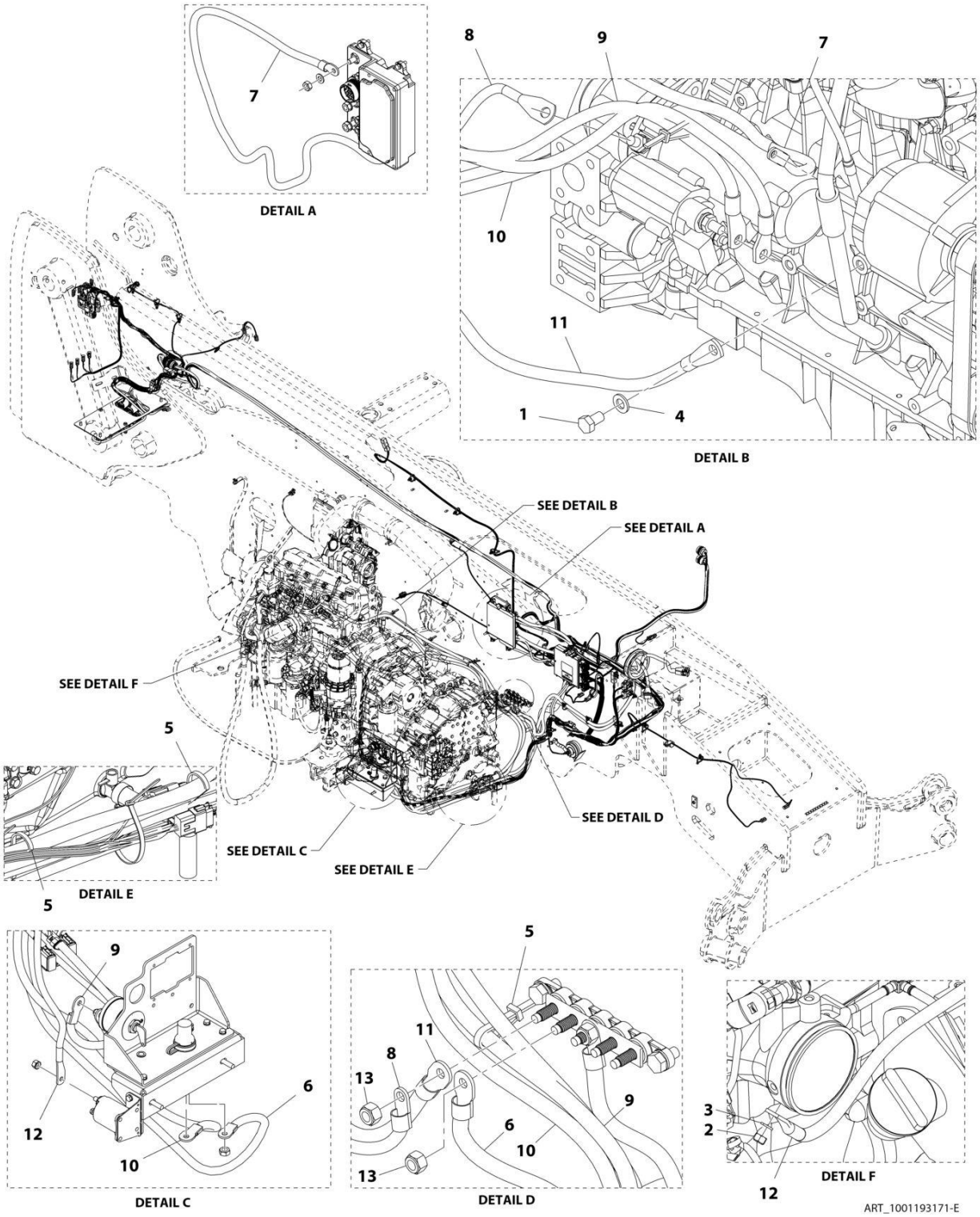


FIGURE 10-39. ENGINE BAY WIRING INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001193171	Ref	Engine Bay Wiring Installation (LS)	E
1	0761210	1	Bolt, M12X20	
2	3290605	1	Nut, Lock M6X1	
3	4811700	1	Washer, M6	
4	4812100	1	Washer, M12	
5	1001008559	6	Strap, Cable	
6	1001200102	1	Cable, Ground Buss to Remote Ground	
7	1001205254	1	Cable, PDM to Alt+	
8	1001170320	1	Cable, Starter Ground	
9	1001187623	1	Cable, Starter to Battery Disconnect	
10	1001187624	1	Cable, Starter to Remote B+	
11	1001205255	1	Cable, Engine Ground	
12	1001170816	1	Cable, Grid Heater	
13	3291005	2	Nut, Lock M10X1.5	

FIGURE 10-40. ENGINE BAY ELECTRICAL INSTALLATION

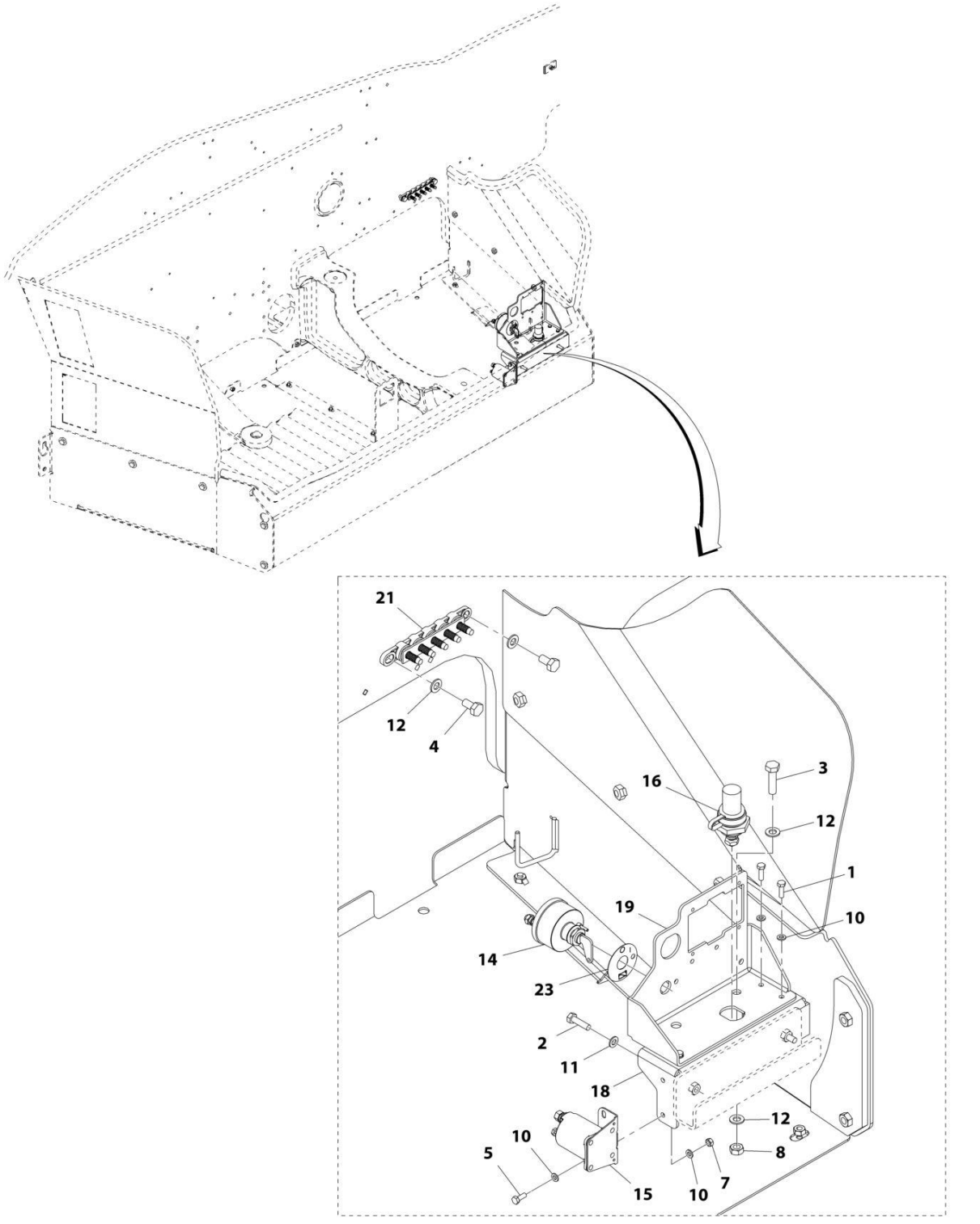


FIGURE 10-40. ENGINE BAY ELECTRICAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173765	Ref	Engine Bay Electrical Installation (1043,642,742,943)	J
1	0700610	4	Bolt, M6X20	
2	0700814	2	Bolt, M8X30	
3	0701016	1	Bolt, M10X40	
4	0761010	2	Bolt, M10X20	
5	0760608	2	Bolt, M6X16	
7	3290601	2	Nut, M6X1	
8	3291001	1	Nut, M10X1.5	
10	4811700	8	Washer, M6	
11	4811900	2	Washer, M8	
12	4812000	4	Washer, M10	
14	1001192142	1	Switch, Disconnect	
15	1001117308	1	Relay	
16	1001193993	1	Terminal	
18	1001199099	1	Bracket	
19	1001198321	1	Bracket	
21	1001181128	1	Bussbar	
23	1001008540	1	Plate	

FIGURE 10-41. ENGINE BAY ELECTRICAL INSTALLATION

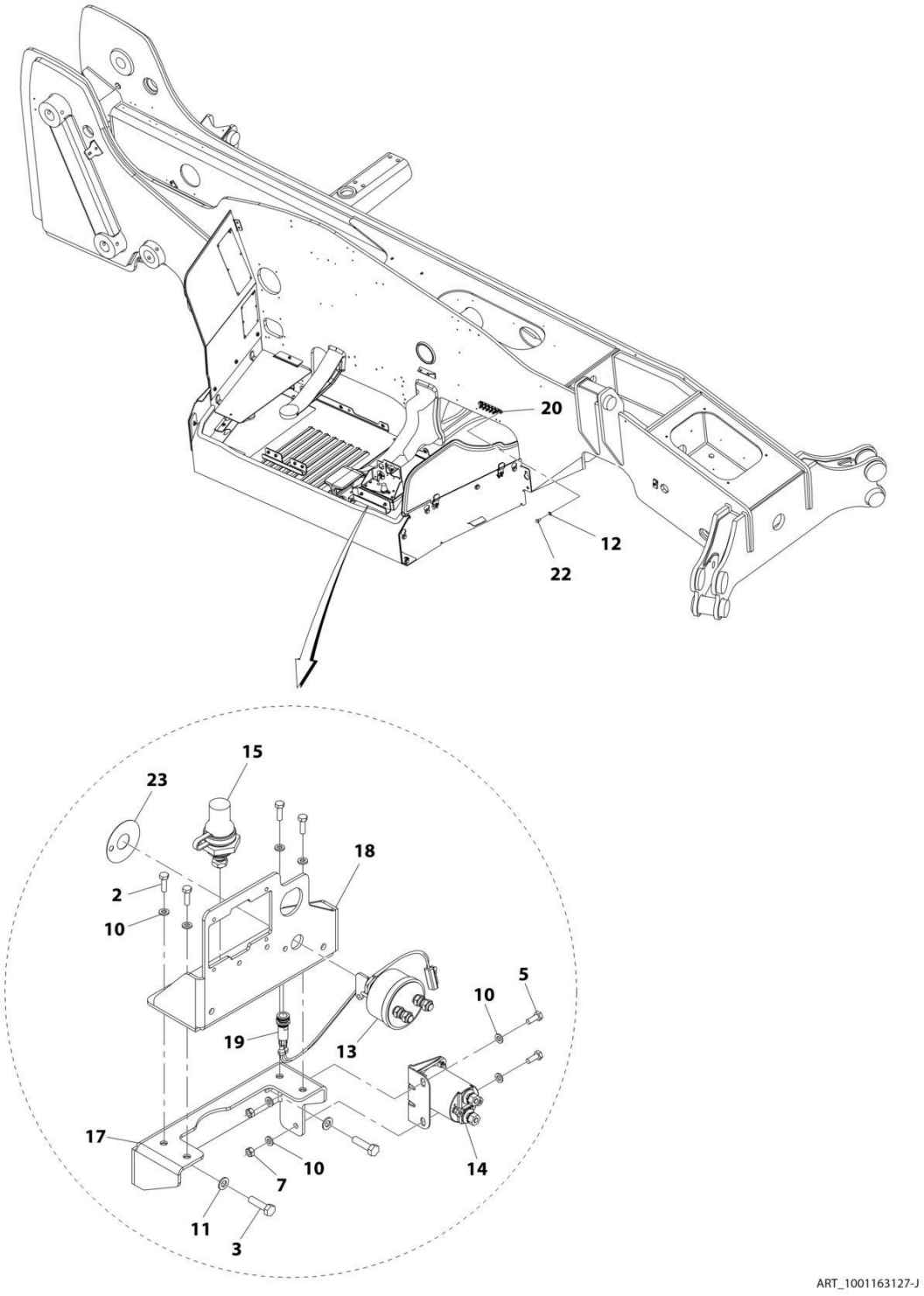


FIGURE 10-41. ENGINE BAY ELECTRICAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163127	Ref	Engine Bay Electrical Installation (if equipped for ULS)	J
2	0700610	4	Bolt, M6X20	
3	0700814	2	Bolt, M8X30	
5	0760608	2	Bolt, M6X16	
7	3290601	2	Nut, M6X1 Grade 8	
10	4811700	8	Washer, M6	
11	4811900	2	Washer, M8	
12	4812000	2	Washer, M10	
13	1001192142	1	Switch, Disconnect	
14	1001117308	1	Relay	
15	1001193993	1	Terminal	
17	1001199099	1	Bracket	
18	1001198321	1	Bracket	
19	1001232288	Ref	Harness, DEF Purge Light, (See Separate Breakdown in this Section)	
20	1001181128	1	Bussbar	
22	0761010	2	Bolt, M10X20	
23	1001008540	1	Plate	

FIGURE 10-42. ENGINE WIRING INSTALLATION (ULS)

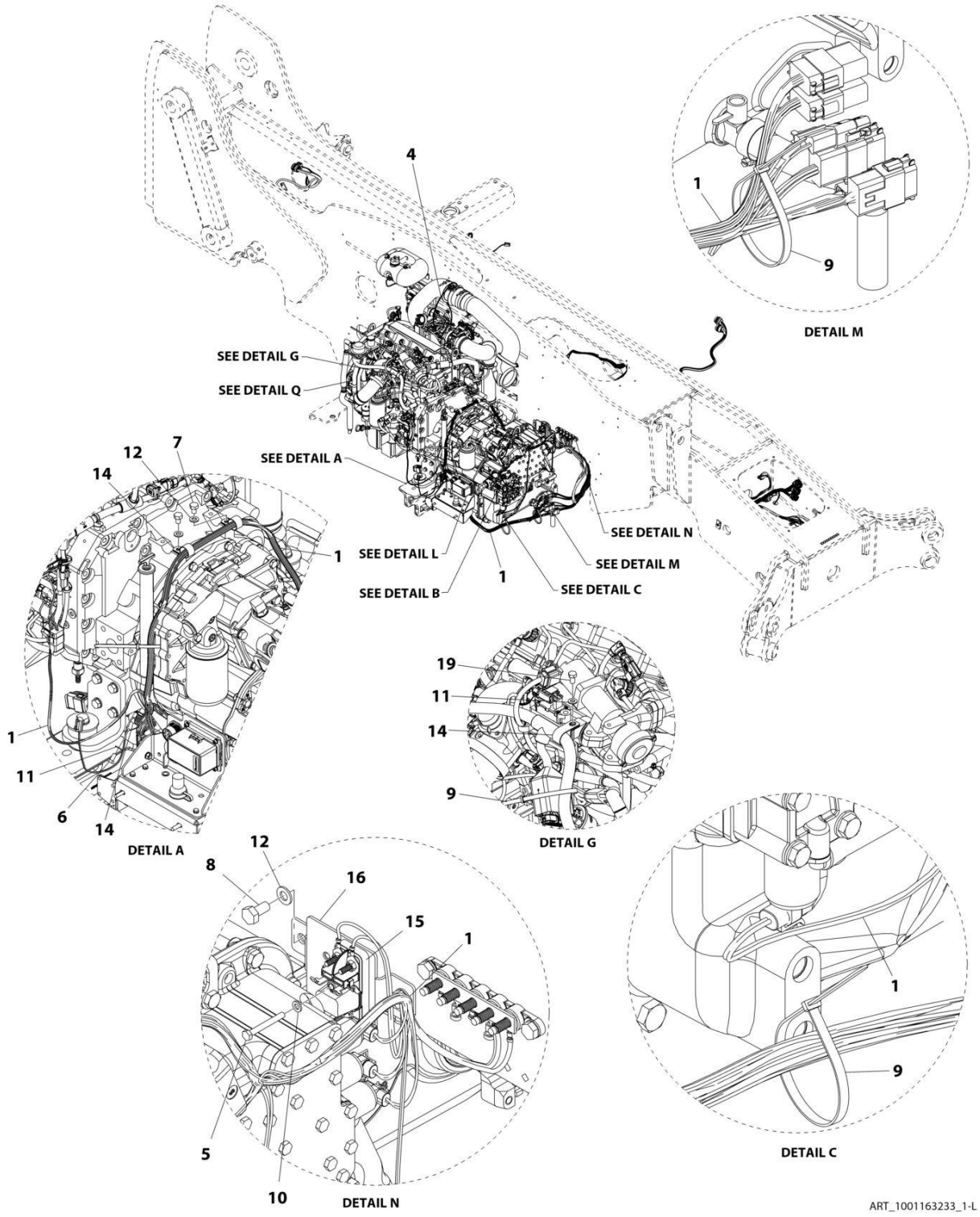


FIGURE 10-43. ENGINE WIRING INSTALLATION (ULS)

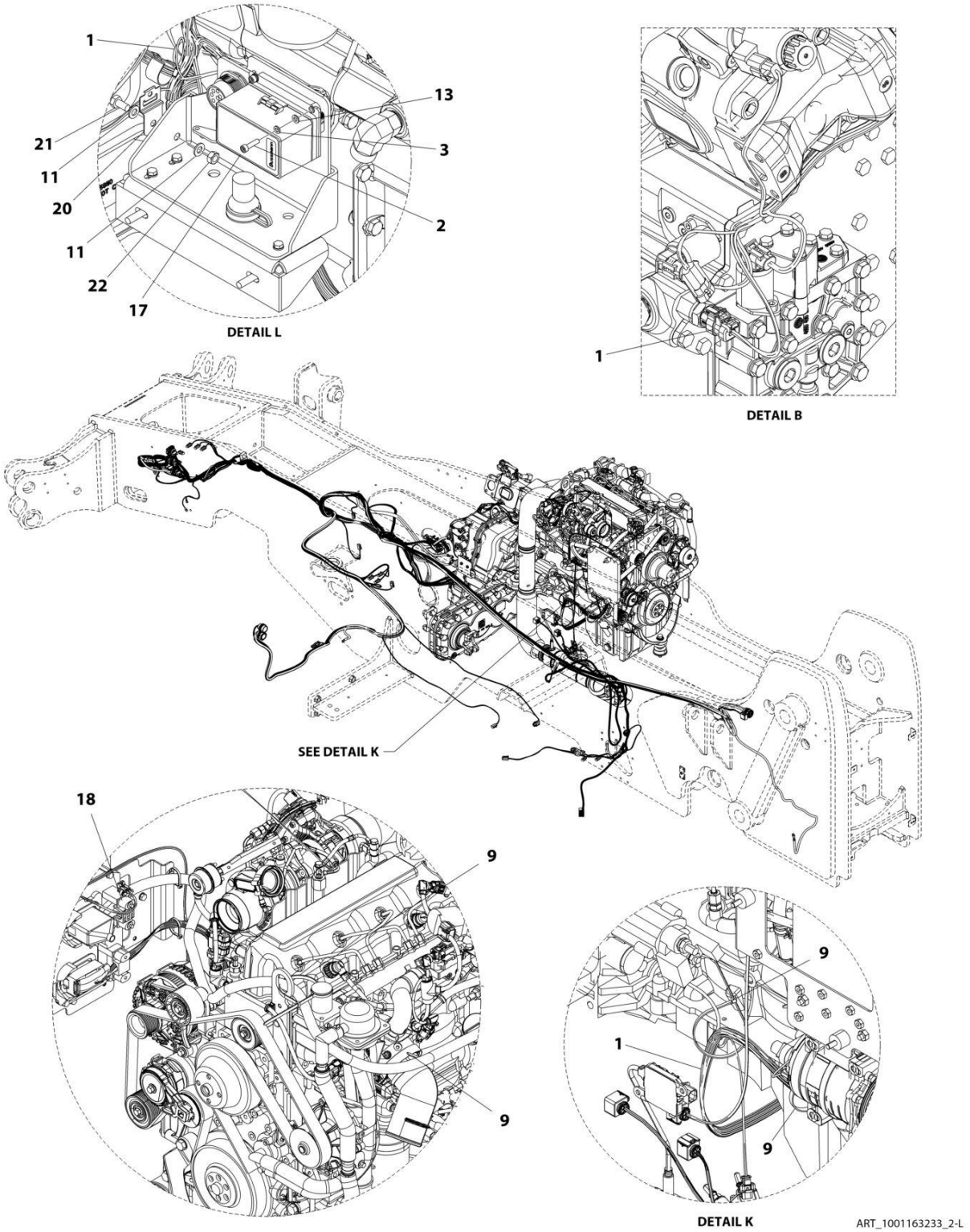


FIGURE 10-44. ENGINE WIRING INSTALLATION (ULS)

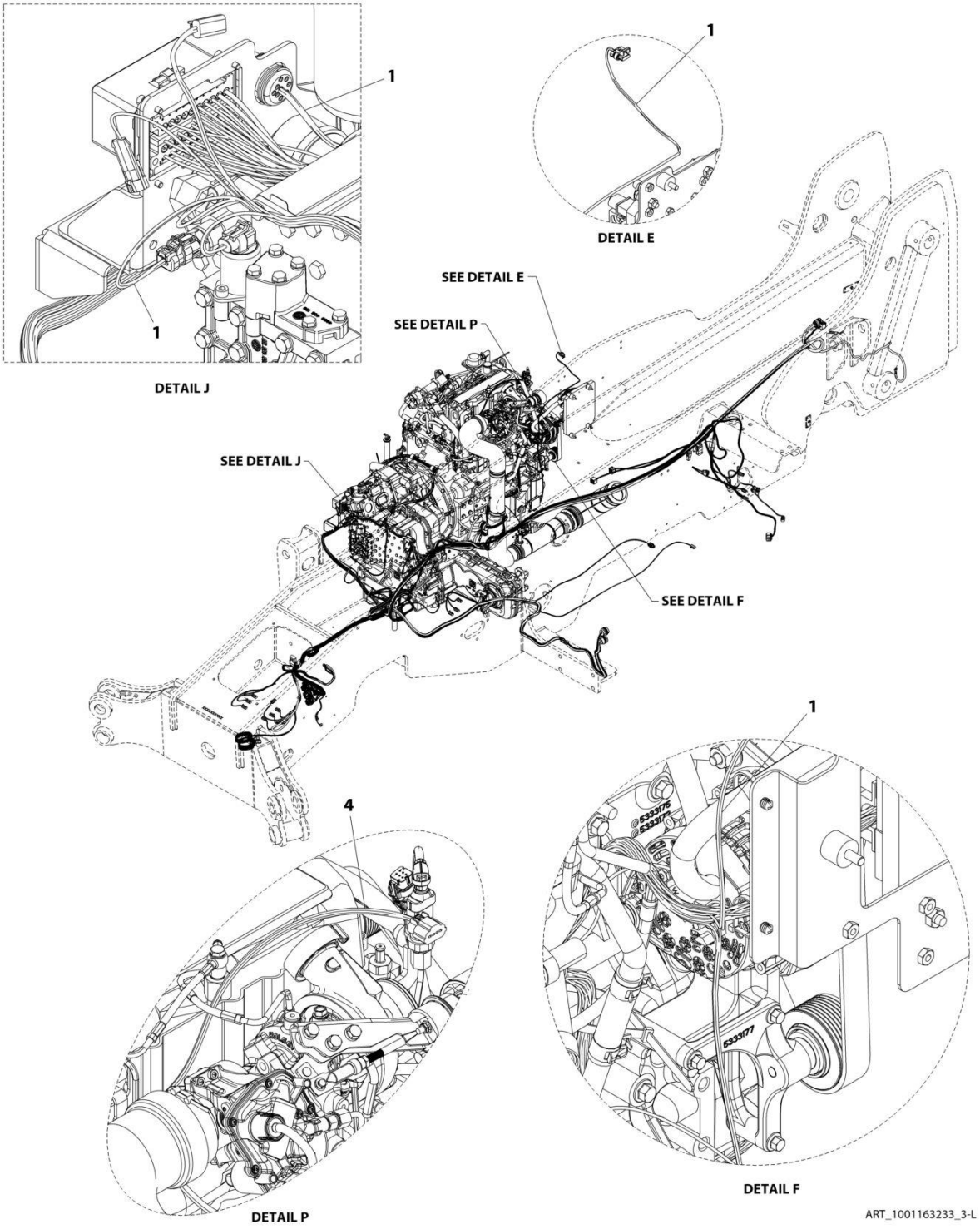


FIGURE 10-44. ENGINE WIRING INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163233	Ref	Engine Wiring Installation (ULS)	M
1	1001235696	1	Harness, Engine (ULS) (See Separate Breakdown in this Section)	
2	4031608	4	Screw, M5X20	
3	4811600	4	Washer, M5	
4	1001184835	1	Harness, TBAP (See Separate Breakdown in this Section)	
5	0700618	1	Bolt, M6X50	
6	0760808	1	Bolt, M8X16	
7	0761007	2	Bolt, M10X14	
8	0761010	2	Bolt, M10X20	
9	1062255	8	Strap, Tie	
10	4811700	1	Washer, M6	
11	4811900	4	Washer, M8	
12	4812000	4	Washer, M10	
13	4831600	4	Washer, Lock M5	
14	8406201	4	Clip, Tube	
15	1001131177	1	Fuse, Power Module	
16	1001189046	1	Bracket	
17	1001191486	1	Decal	
18	1001167646	1	Connector, Strain Relief	
19	0760807	1	Bolt, M8X14	
20	1001153749	1	Clip	
21	0700808	1	Bolt, M8X16	
22	3290801	1	Hex Nut, M8X1.25	

FIGURE 10-45. ENGINE WIRING INSTALLATION (LS)

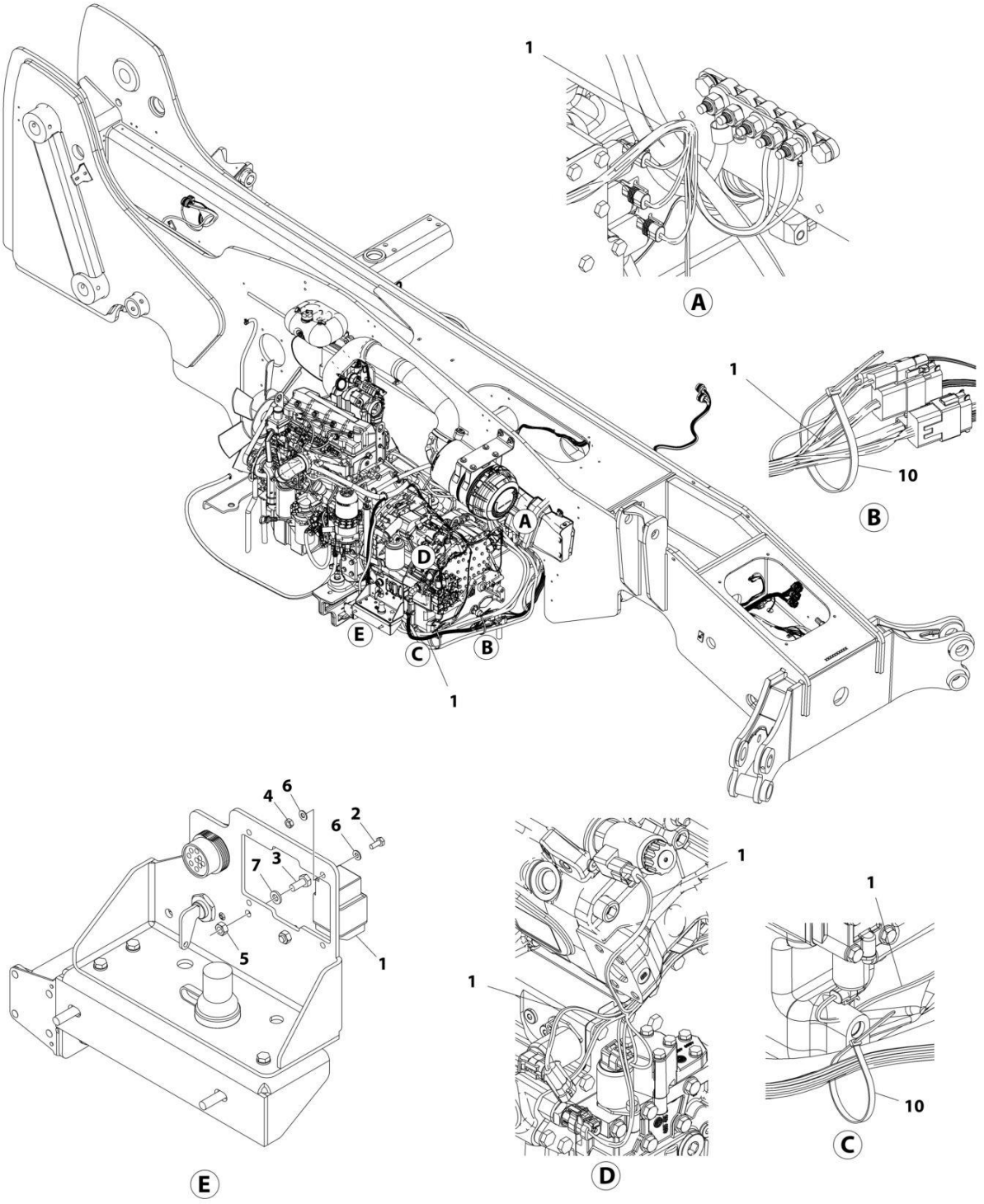


FIGURE 10-46. ENGINE WIRING INSTALLATION (LS)

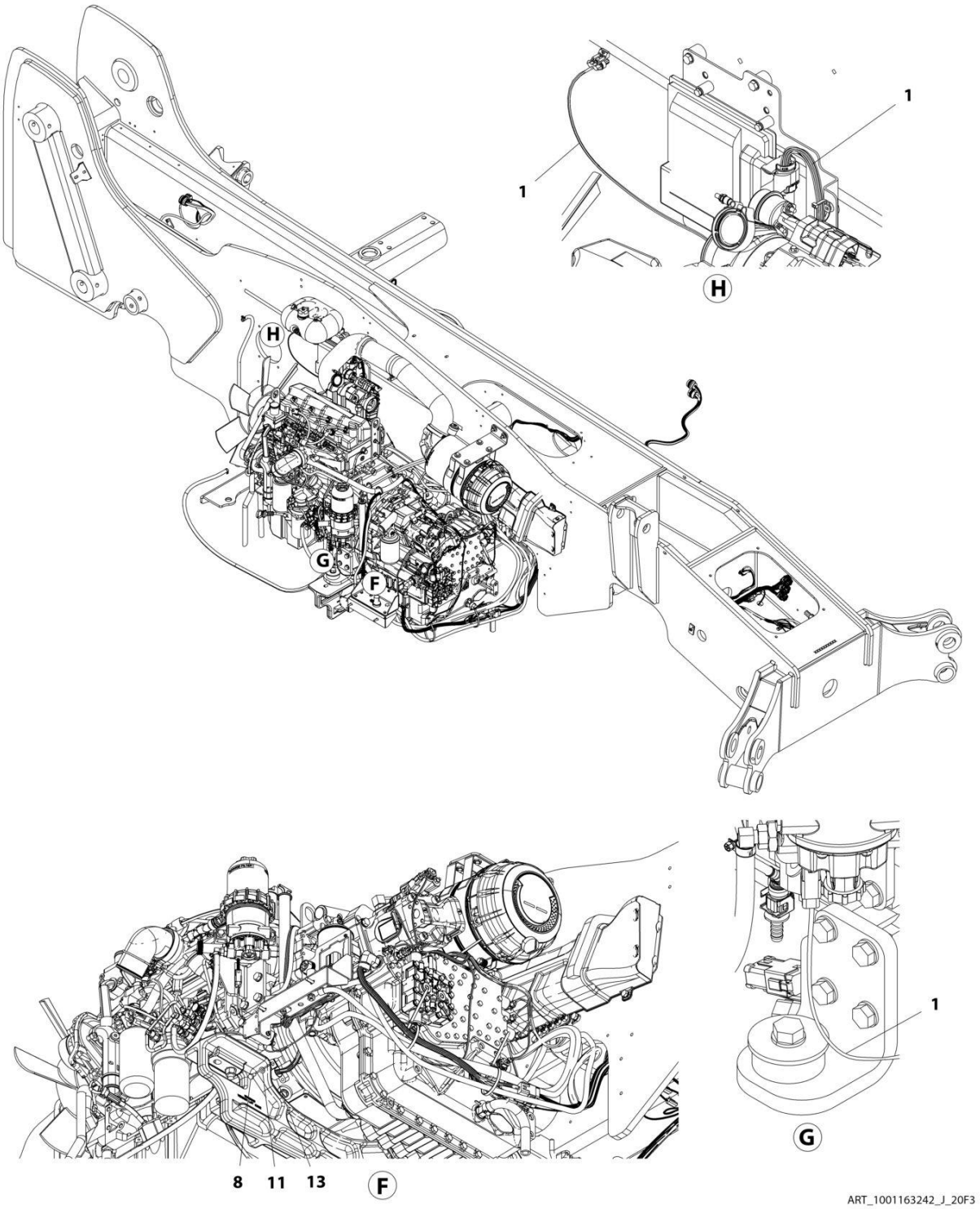


FIGURE 10-47. ENGINE WIRING INSTALLATION (LS)

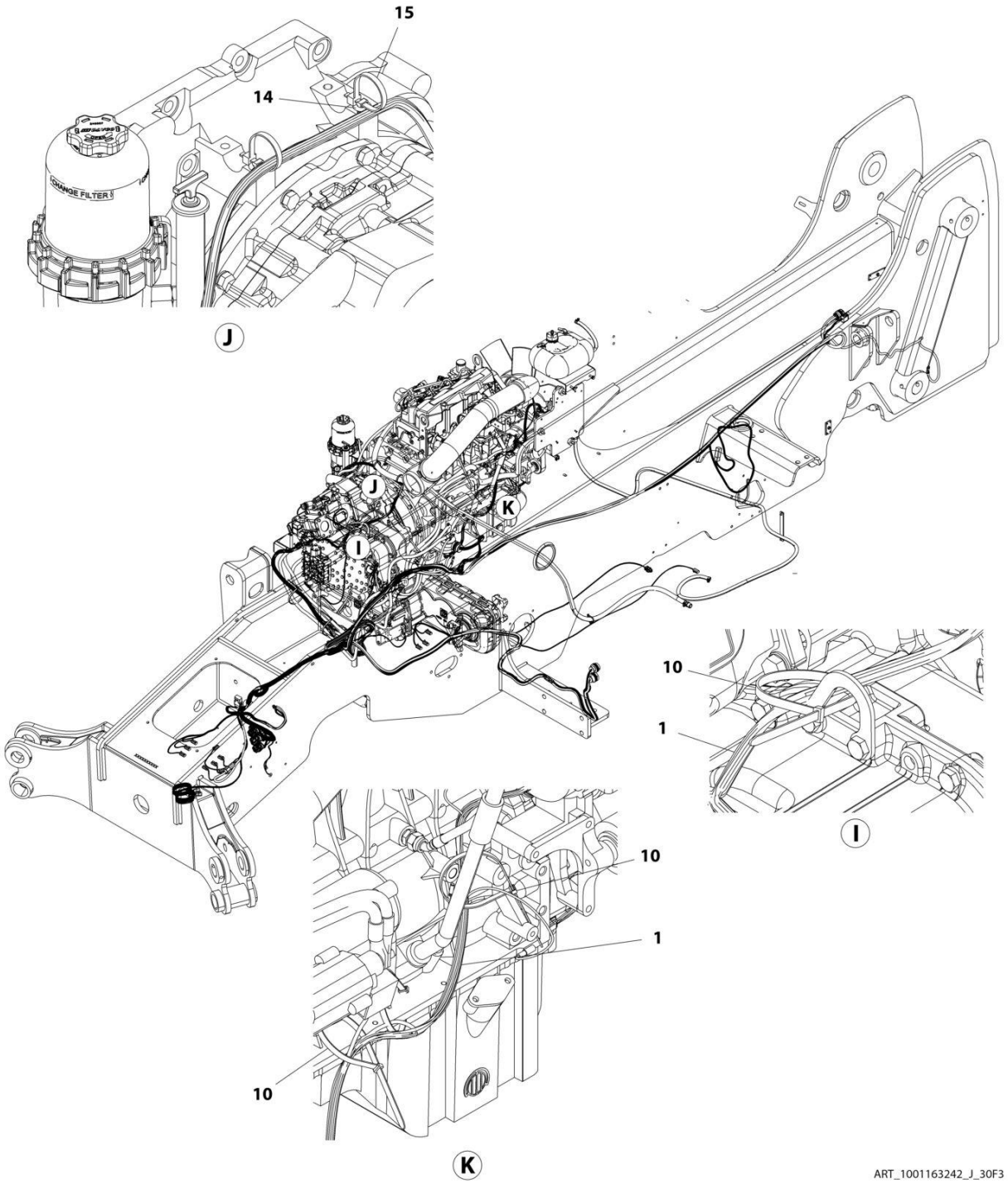


FIGURE 10-47. ENGINE WIRING INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163242	Ref	Engine Wiring Installation (LS)	J
1	1001222715	1	Harness, Engine (LS) (See Separate Breakdown in this Section)	
2	0760405	1	Bolt, M4X10	
3	0760607	2	Bolt, M6X14	
4	3290401	1	Nut, M4X0.7	
5	3290601	2	Nut, M6X1 Grade 8	
6	4811400	2	Washer, M4	
7	4811700	2	Washer, M6	
8	0760808	1	Bolt, M8X16	
10	1062255	5	Strap, Tie	
11	4811900	1	Washer, M8	
13	8406201	1	Clip	
14	1001202986	2	Strap, Tie	
15	1001008559	2	Strap, Tie	

FIGURE 10-48. ENGINE ECU INSTALLATION (ULS)

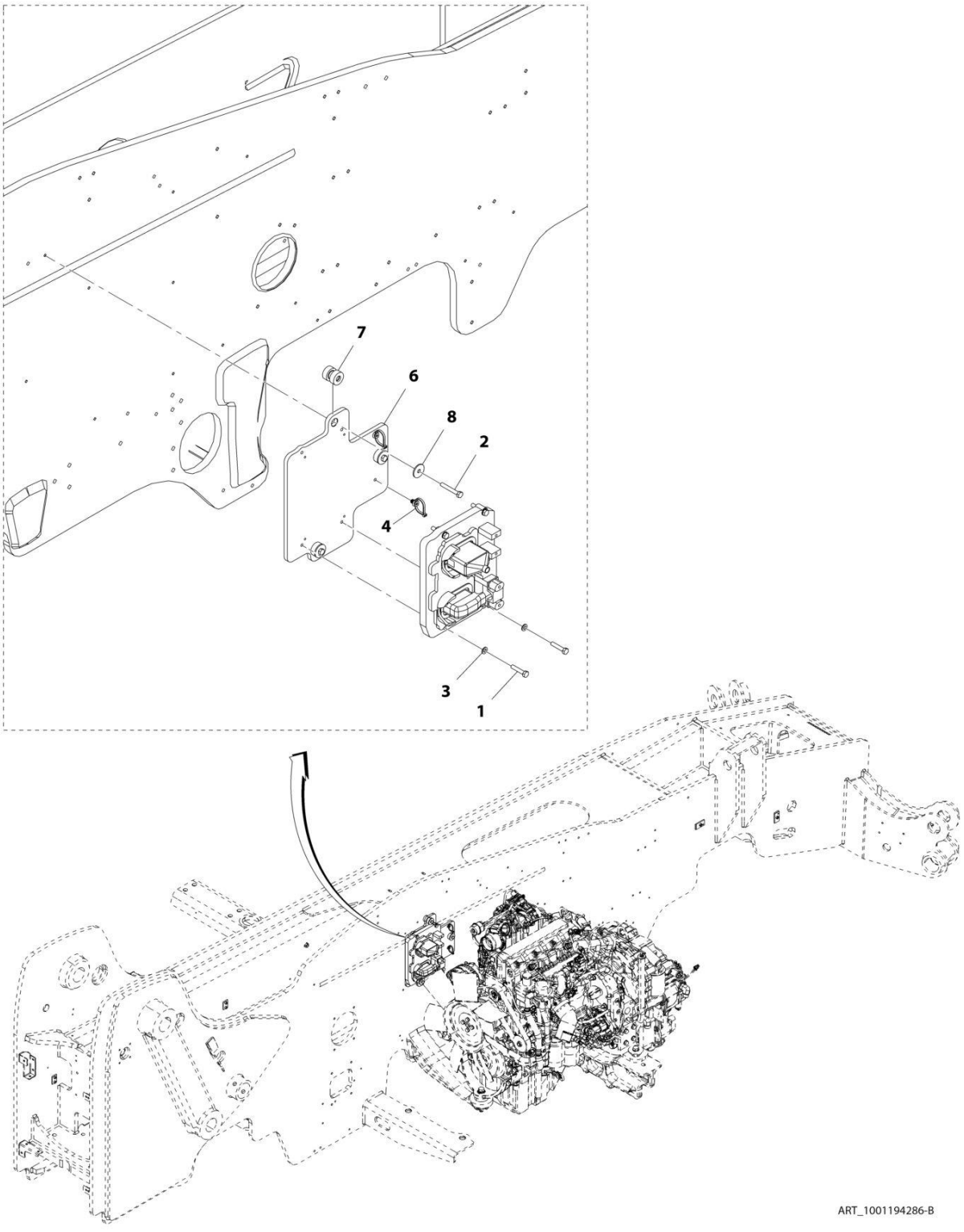


FIGURE 10-48. ENGINE ECU INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001194286	Ref	Engine ECU Installation	B
1	0700816	4	Bolt, M8X40	
2	0700819	3	Bolt, M8X55	
3	4811900	4	Washer, M8	
4	1001146588	2	Strap, Tie	
6	1001192468	1	Bracket	
7	1001192471	3	Mount	
8	1001195089	3	Washer	

FIGURE 10-49. ENGINE ECU INSTALLATION (LS)

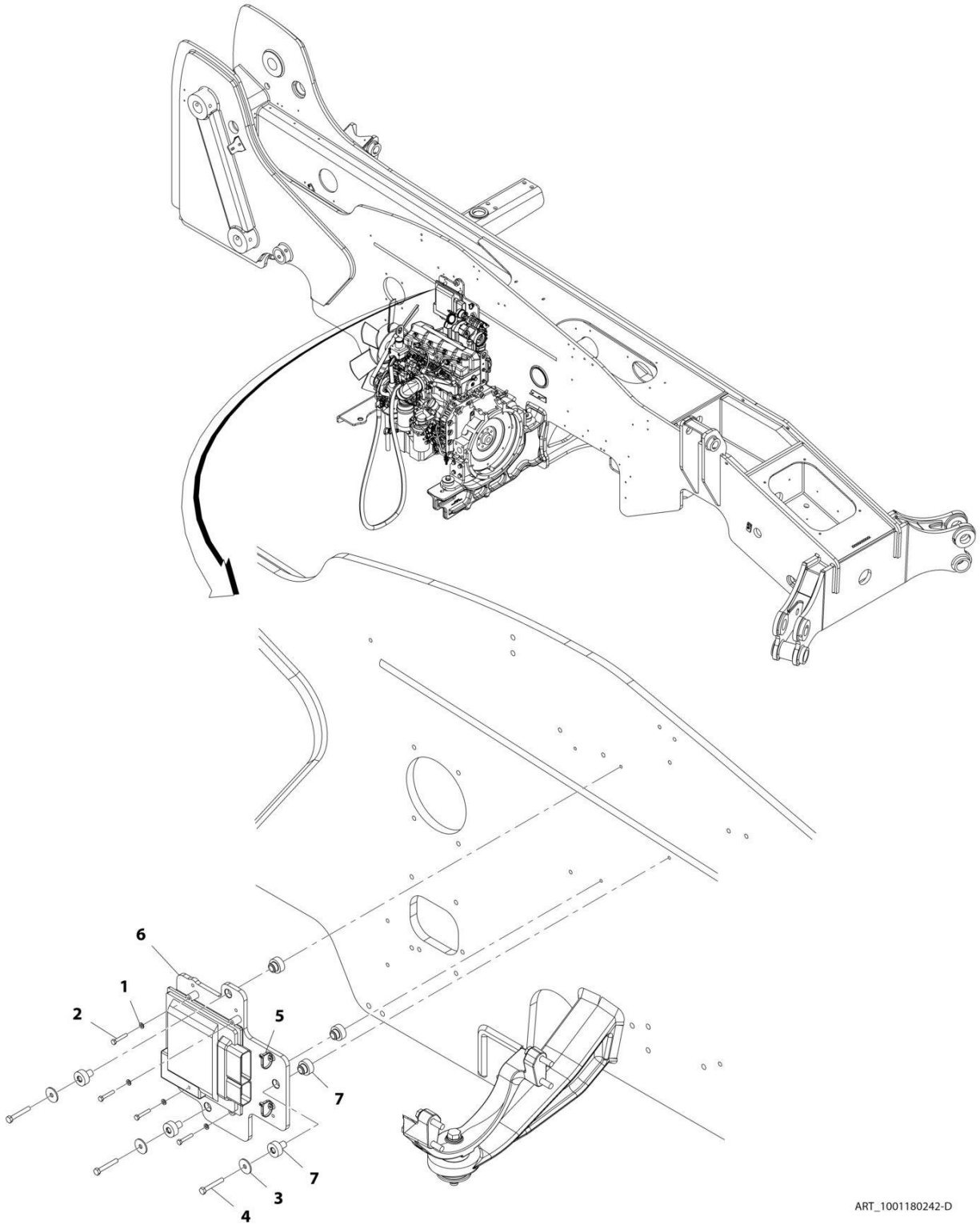


FIGURE 10-49. ENGINE ECU INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180242	Ref	Engine ECM Installation (LS)	D
1	4811700	4	Washer, M6	
2	0760615	4	Bolt, M6X35	
3	1001195089	3	Washer	
4	0700819	3	Bolt, Grade 8	
5	1001146588	2	Strap, Tie	
6	1001192468	1	Bracket	
7	1001192471	3	Mount, Isolator	

FIGURE 10-50. ENCLOSED CAB ELECTRICAL INSTALLATION WITH OPTIONS

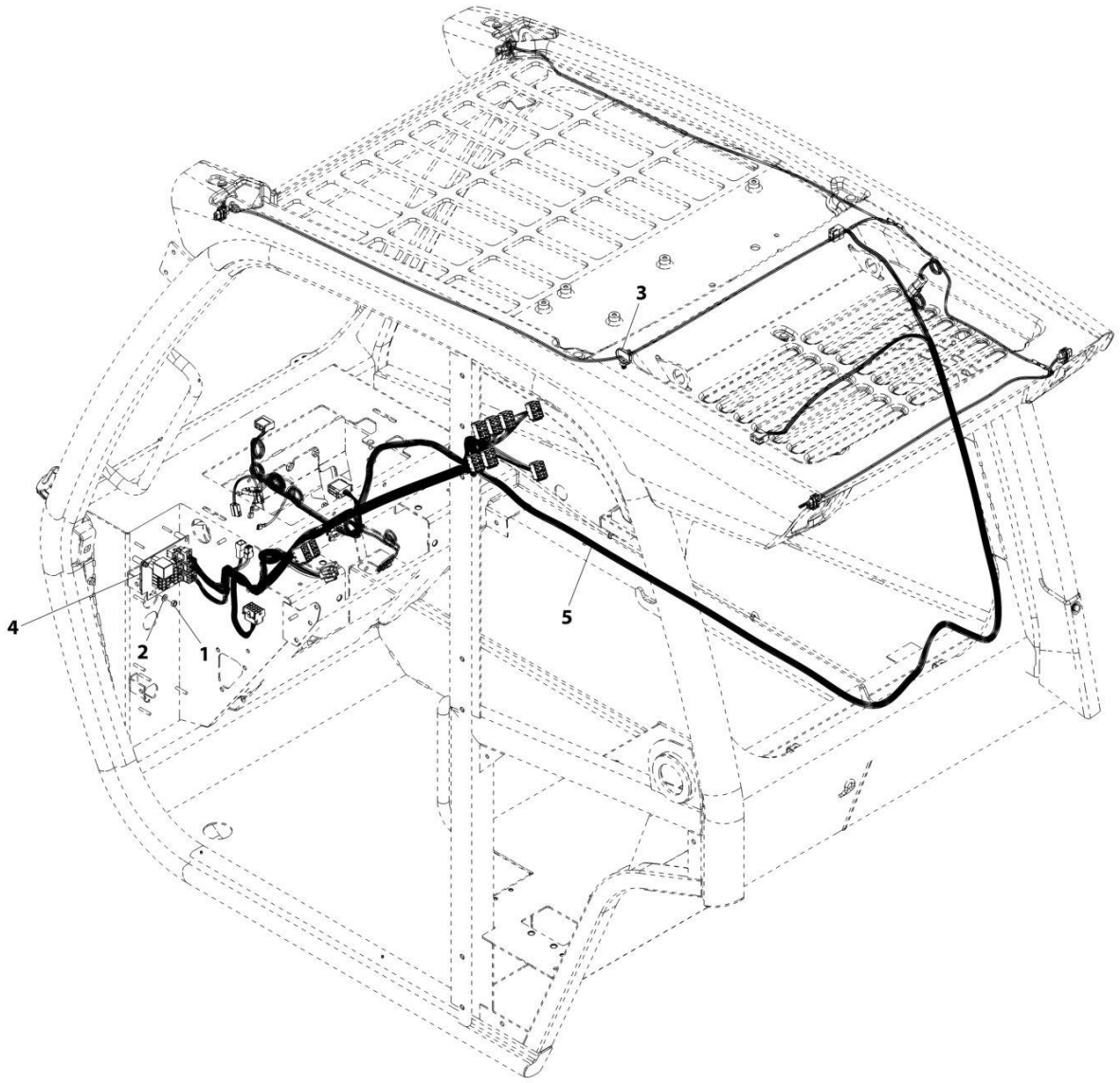


FIGURE 10-50. ENCLOSED CAB ELECTRICAL INSTALLATION WITH OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166763	Ref	Enclosed Cab Electrical Installation with Options	E
1	3290501	1	Nut, M5X0.8	
2	120034	1	Washer, Plastic	
3	1001146588	1	Strap, Tie	
4	1001161770	1	Assembly, Option 1 Electrical Board (See Separate Breakdown in this Section)	
5	1001163371	1	Harness, Option 1 Cab (See Separate Breakdown in this Section)	

FIGURE 10-51. ENGINE CHASSIS HARNESS (ULS)

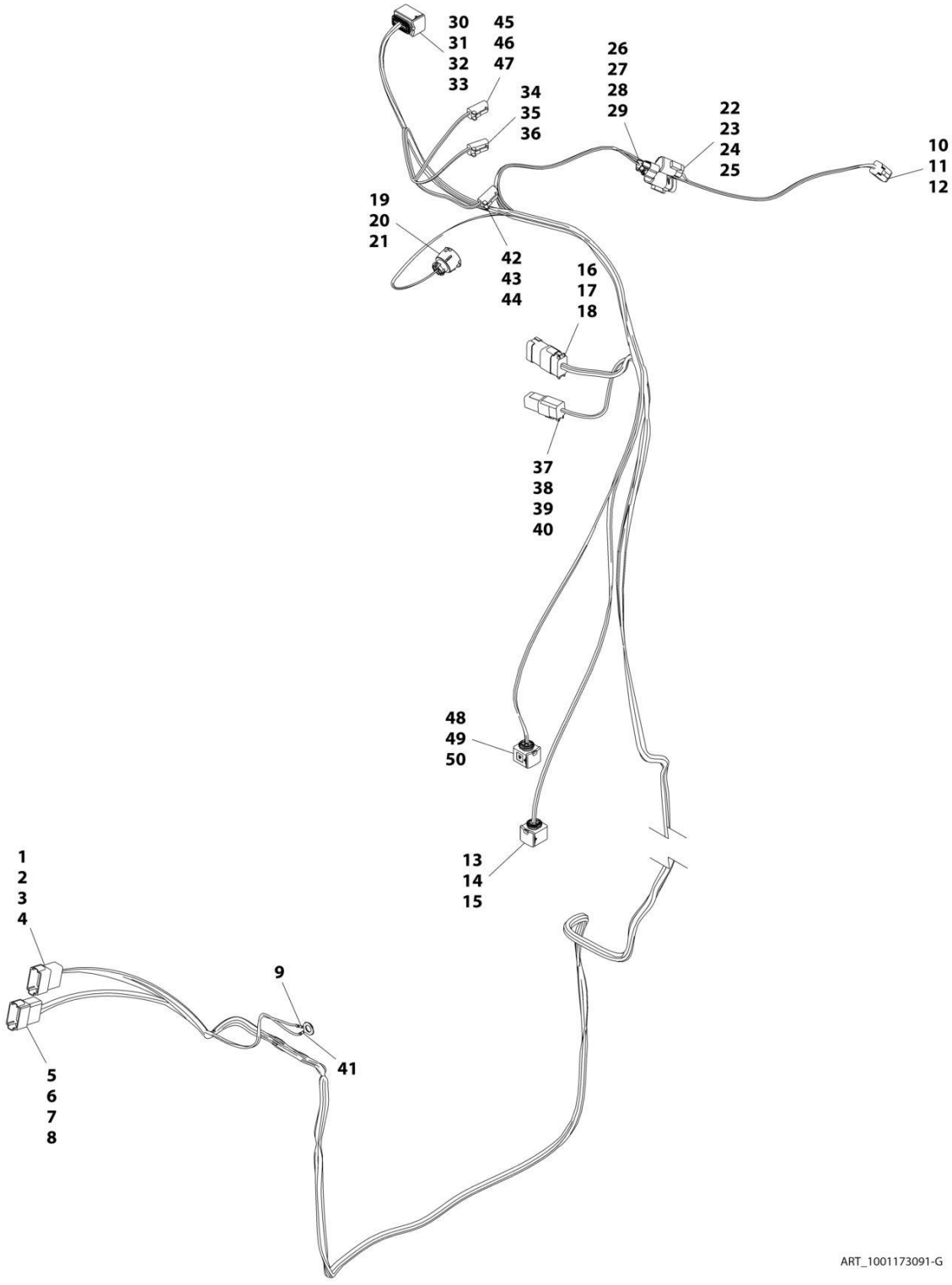


FIGURE 10-51. ENGINE CHASSIS HARNESS (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173091	Ref	Engine Chassis Harness (ULS)	G
1	4460982	1	Connector	
2	80363179	1	Lock, Connector	
3	4460464	11	Terminal	
4	4460466	1	Plug	
5	1001152742	1	Connector	
6	80363179	1	Lock, Connector	
7	4460464	10	Terminal	
8	4460466	2	Plug	
9	1001187077	1	Terminal, Ring	
10	4460884	1	Connector	
11	80604021	1	Lock, Connector	
12	4460465	4	Terminal	
13	1001167528	1	Connector	
14	1001166704	4	Terminal	
15	1001137578	4	Seal, Terminal	
16	4460930	1	Connector	
17	80604025	1	Lock, Connector	
18	4460465	8	Terminal	
19	1001167620	1	Connector	
20	1001176004	2	Terminal	
21	1001167624	2	Plug	
22	4460539	1	Connector	
23	77363244	1	Lock, Connector	
24	4460944	2	Terminal	
25	4460466	1	Plug	
26	1001116812	1	Connector	
27	91554019	1	Lock, Connector	
28	4460944	2	Terminal	
29	4460466	1	Plug	
30	1001165194	1	Connector	
31	1001166703	10	Terminal	
32	1001126393	10	Seal, Terminal	
33	1001126391	2	Plug	
34	4460891	1	Connector	
35	80604018	1	Lock, Connector	
36	4460465	2	Terminal	
37	4460894	1	Connector	
38	91504107	1	Lock, Connector	
39	4460465	4	Terminal	
40	4460466	2	Plug	
41	1001187077	1	Terminal, Ring	
42	4460891	1	Connector	
43	80604018	1	Lock, Connector	
44	4460465	2	Terminal	
45	4460891	1	Connector	
46	80604018	1	Lock, Connector	
47	4460465	2	Terminal	
48	1001176935	1	Connector	
49	1001166704	4	Terminal	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001137578	4	Seal, Terminal	

FIGURE 10-52. ENGINE HARNESS (ULS)

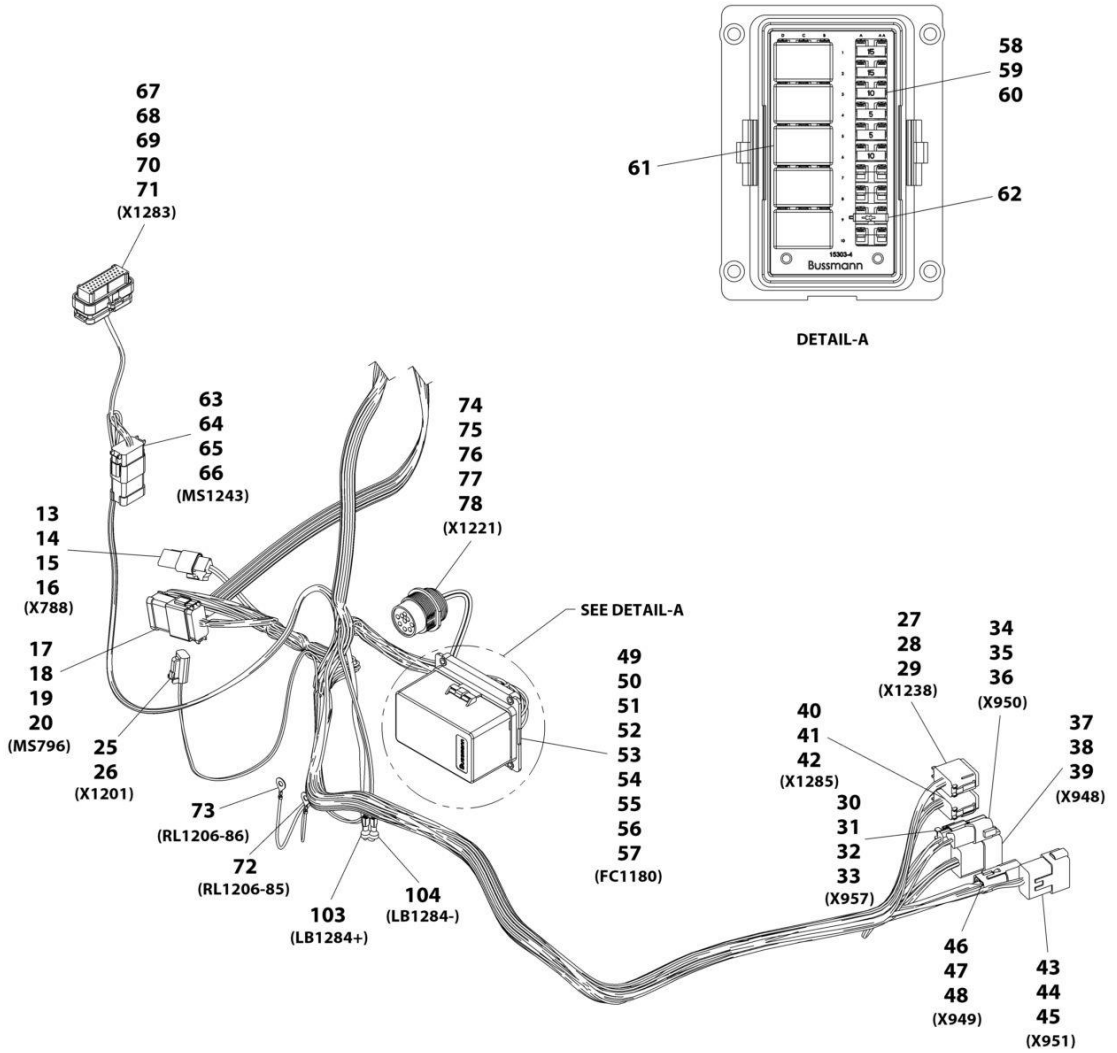


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FIGURE 10-53. ENGINE HARNESS (ULS)

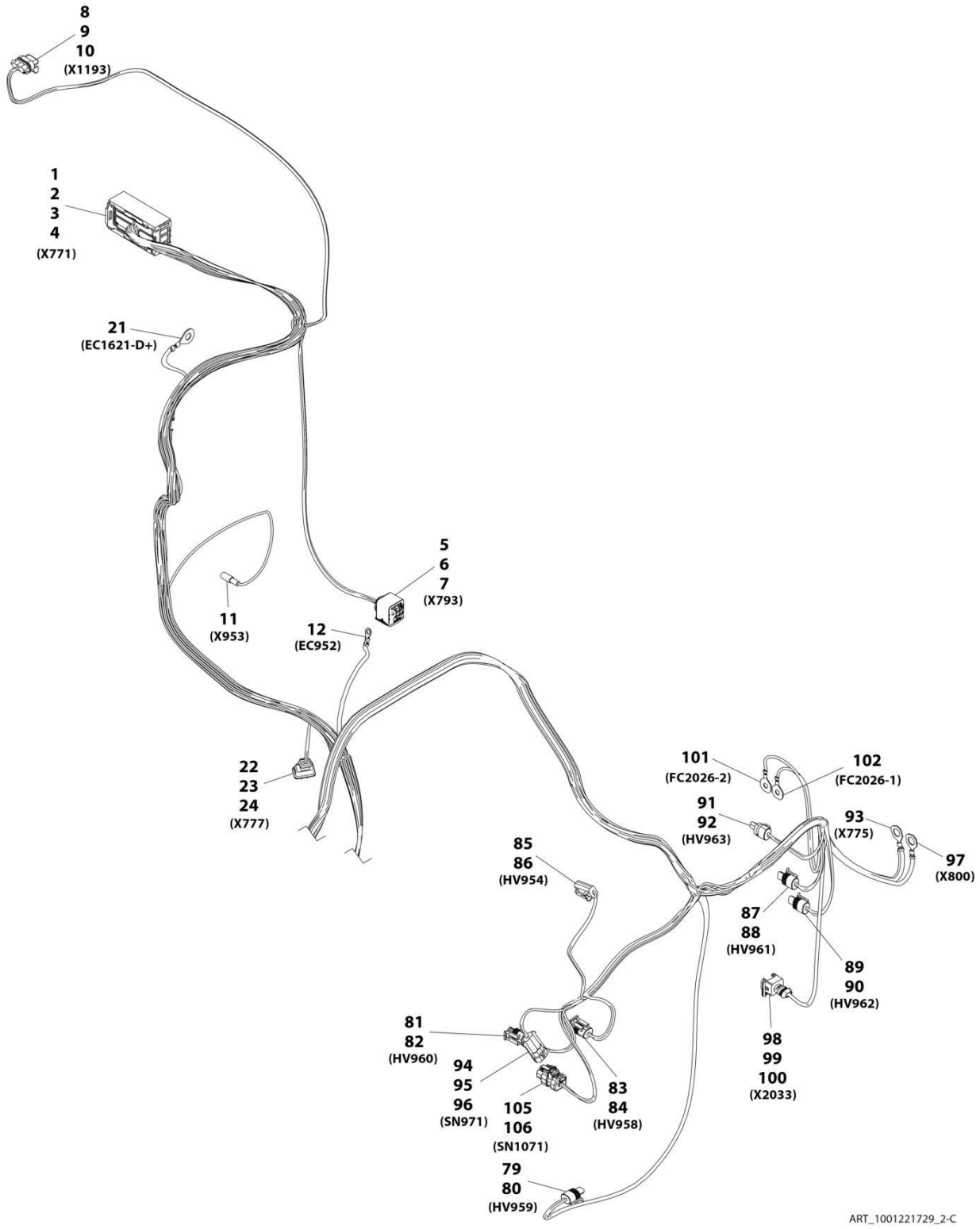


FIGURE 10-53. ENGINE HARNESS (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221729	NLA	Engine Harness (if equipped for ULS), (no longer available, use 1001235696 for replacement)	D
1	1001167641	1	Connector	
2	1001167648	9	Terminal	
3	1001167649	30	Terminal	
4	1001167650	59	Plug	
5	1001176935	1	Connector	
6	1001166704	4	Terminal	
7	4461006	4	Seal	
8	1001125027	1	Connector	
9	8220124	3	Terminal	
10	4460608	3	Seal	
11	1001246391	1	Terminal, Snap Plug	
12	1001197407	1	Ring, Terminal	
13	4461095	1	Connector	
14	4460944	2	Terminal	
15	4460466	1	Plug	
16	4461070	1	Connector	
17	4460933	1	Connector	
18	4460465	8	Terminal	
19	4460466	4	Plug	
20	1001125677	1	Connector	
21	1001187070	1	Ring, Terminal	
22	1001126487	1	Connector	
23	1001167656	2	Terminal	
24	1001167657	2	Seal	
25	4460891	1	Connector	
26	4460465	2	Terminal	
27	4460934	1	Connector	
28	4460465	10	Terminal	
29	4460466	2	Plug	
30	4460891	1	Connector	
31	4460465	2	Terminal	
32	4460466	2	Plug	
33	4460897	1	Connector	
34	1001144147	1	Connector	
35	4460464	2	Terminal	
36	4460466	1	Plug	
37	4460950	1	Connector	
38	4460464	9	Terminal	
39	4460466	3	Plug	
40	4460935	1	Connector	
41	4460465	11	Terminal	
42	4460466	1	Plug	
43	4460970	1	Connector	
44	4460464	8	Terminal	
45	4460466	4	Plug	
46	1001116811	1	Connector	
47	4460508	3	Terminal	
48	1001150610	1	Terminal	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	1001167616	1	Connector	
50	1001190921	1	Seal, Foam Fuse Box	
51	8220098	3	Terminal	
52	4460789	9	Seal	
53	8220097	29	Terminal	
54	4460458	23	Seal	
55	4460748	11	Plug	
56	1001116725	2	Terminal	
57	80963067	2	Plug	
58	8229244	2	Fuse, 15amp	
59	80983191	2	Fuse, 10amp	
60	8229242	2	Fuse, 5amp	
61	1001205172	5	Relay, 35amp	
62	1001177597	1	Diode, 6amp	
63	4460930	1	Connector	
64	4460465	6	Terminal	
65	4460466	2	Plug	
66	4460984	1	Bussbar	
67	1001125083	1	Connector	
68	1001195782	7	Plug	
69	1001195781	14	Plug	
70	1001125085	2	Terminal	
71	1001125089	1	Terminal	
72	1001187070	1	Ring, Terminal	
73	1001187070	1	Ring, Terminal	
74	1001112612	1	Connector	
75	4460464	4	Terminal	
76	4460466	5	Plug	
77	4460497	1	Nut	
78	4460496	1	Lockwasher	
79	4460955	1	Connector	
80	1001116748	2	Terminal	
81	4460955	1	Connector	
82	1001116748	2	Terminal	
83	4460955	1	Connector	
84	1001116748	2	Terminal	
85	4460891	1	Connector	
86	4460465	2	Terminal	
87	4460955	1	Connector	
88	1001116748	2	Terminal	
89	4460955	1	Connector	
90	1001116748	2	Terminal	
91	4460955	1	Connector	
92	1001116748	2	Terminal	
93	1001187080	1	Ring, Terminal	
94	1001117073	1	Connector	
95	1001116749	2	Terminal	
96	4460608	2	Seal	
97	1001187079	1	Ring, Terminal	
98	1001190322	1	Connector	
99	4461005	2	Terminal	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100	4461054	2	Seal	
101	1001207171	1	Ring, Terminal	
102	1001207171	1	Ring, Terminal	
103	8220108	1	Connector, Female	
104	8220108	1	Connector, Female	
105	1001116950	1	Connector	
106	4460465	2	Terminal	

FIGURE 10-54. ENGINE HARNESS (LS) (Prior to SN 0160080818)

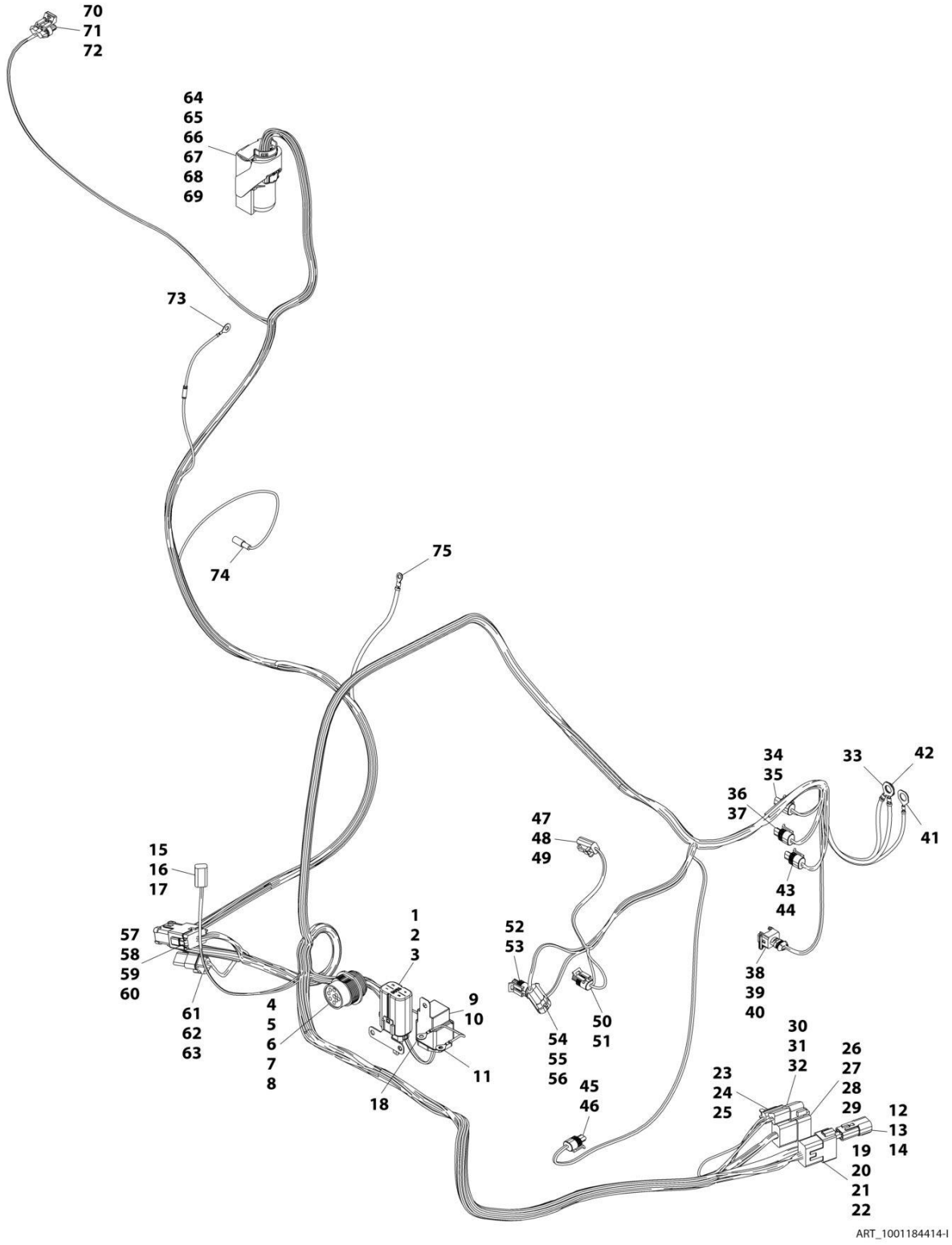


FIGURE 10-54. ENGINE HARNESS (LS) (Prior to SN 0160080818)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001184414	Ref	Engine Harness (LS)	I
1	1001184551	1	Connector	
2	1001116728	8	Terminal	
3	1001175265	8	Seal	
4	1001112612	1	Connector	
5	4460466	4	Terminal	
6	4460466	5	Plug	
7	4460497	1	Nut	
8	4460496	1	Washer, Lock	
9	1001145707	1	Connector	
10	1001116732	4	Terminal	
11	1001187070	1	Ring, Terminal	
12	1001116811	1	Connector	
13	4460508	3	Terminal	
14	1001150610	1	Terminal	
15	4460891	1	Connector	
16	4460465	2	Terminal	
17	80604018	1	Lock, Connector	
18	1001187070	1	Ring, Terminal	
19	4460970	1	Connector	
20	4460464	7	Terminal	
21	4460466	5	Plug	
22	80604015	1	Lock, Connector	
23	4460891	1	Connector	
24	4460465	2	Terminal	
25	80604018	1	Lock, Connector	
26	4460950	1	Connector	
27	4460464	9	Terminal	
28	4460466	3	Plug	
29	80604015	1	Lock, Connector	
30	1001144147	1	Connector	
31	4460464	2	Terminal	
32	4460466	1	Plug	
33	1001187079	1	Ring, Terminal	
34	4460955	1	Connector	
35	1001116748	2	Terminal	
36	4460955	1	Connector	
37	1001116748	2	Terminal	
38	1001190322	1	Connector	
39	4461005	2	Terminal	
40	4461054	2	Seal	
41	1001187078	1	Ring, Terminal	
42	1001187079	1	Ring, Terminal	
43	4460955	1	Connector	
44	1001116748	2	Terminal	
45	4460955	1	Connector	
46	1001116748	2	Terminal	
47	4460891	1	Connector	
48	4460465	2	Terminal	
49	80604018	1	Lock, Connector	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	4460955	1	Connector	
51	1001116748	2	Terminal	
52	4460955	1	Connector	
53	1001116748	2	Terminal	
54	1001117073	1	Connector	
55	1001116749	2	Terminal	
56	4460608	2	Seal	
57	4460933	1	Connector	
58	4460944	8	Terminal	
59	4460466	4	Plug	
60	80604016	1	Lock, Connector	
61	4461095	1	Connector	
62	4460943	2	Terminal	
63	4460466	1	Plug	
64	1001126349	1	Connector	
65	1001185824	6	Terminal	
66	1001185823	11	Terminal	
67	1001126353	6	Seal	
68	1001126357	4	Plug	
69	1001126356	73	Plug	
70	1001125027	1	Connector	
71	8220124	3	Terminal	
72	4460608	3	Seal	
73	1001187070	1	Ring, Terminal	
74	1001117125	1	Terminal, Snap Plug	
75	1001197407	1	Ring, Terminal	

FIGURE 10-55. ENGINE HARNESS (LS) (SN 0160080818 to Present)

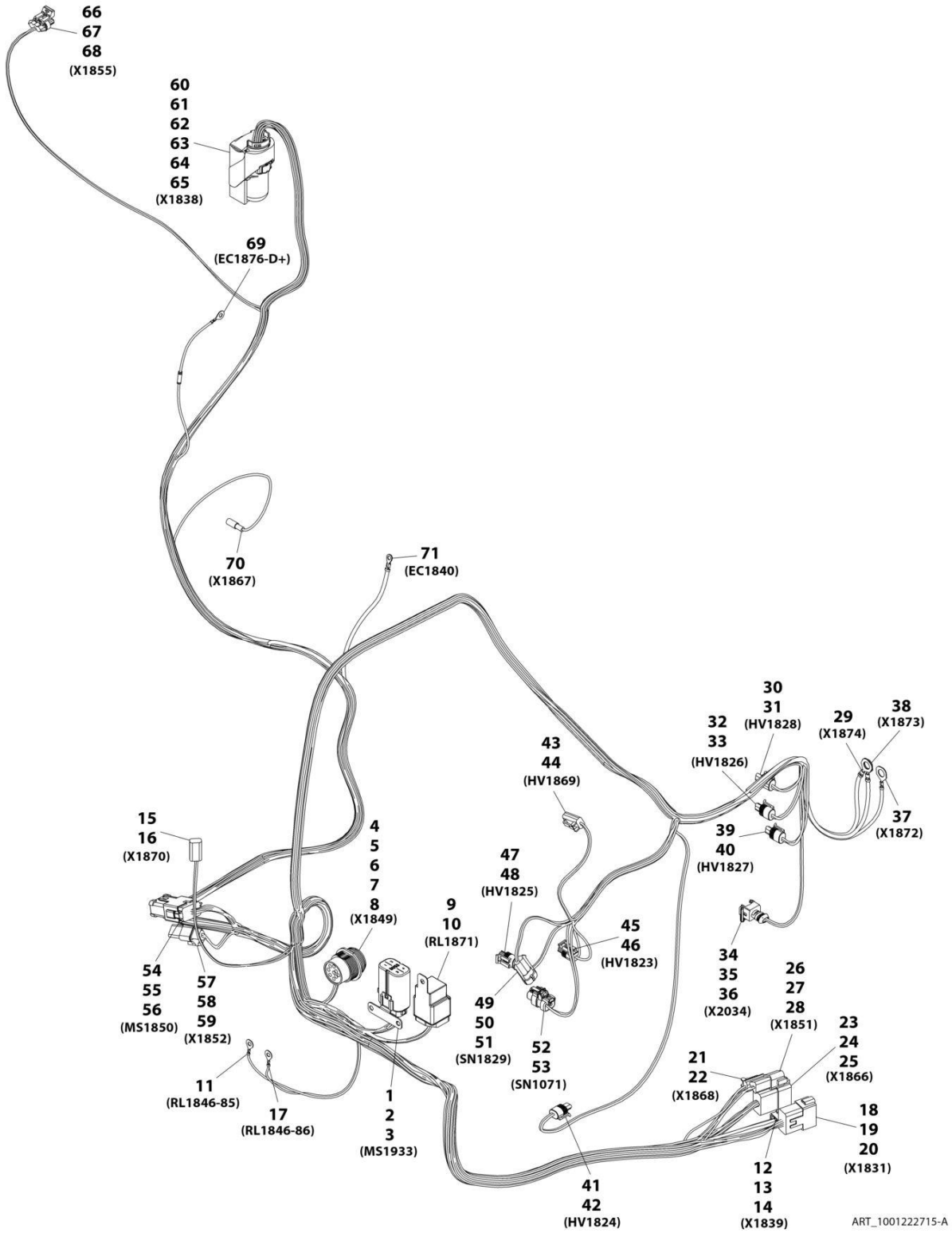


FIGURE 10-55. ENGINE HARNESS (LS) (SN 0160080818 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222715	Ref	Engine Harness (LS)	A
1	1001184551	1	Connector	
2	1001116728	8	Terminal	
3	1001175265	8	Seal	
4	1001112612	1	Connector	
5	4460464	4	Terminal	
6	4460466	5	Plug	
7	4460497	1	Nut	
8	4460496	1	Washer	
9	1001145707	1	Connector	
10	1001116732	4	Terminal	
11	1001187070	1	Ring, Terminal	
12	1001116811	1	Connector	
13	4460508	3	Terminal	
14	1001150610	1	Terminal	
15	4460891	1	Connector	
16	4460465	2	Terminal	
17	1001187070	1	Ring, Terminal	
18	4460970	1	Connector	
19	4460464	8	Terminal	
20	4460466	4	Plug	
21	4460891	1	Connector	
22	4460465	2	Terminal	
23	4460950	1	Connector	
24	4460464	9	Terminal	
25	4460466	3	Plug	
26	1001144147	1	Connector	
27	4460464	2	Terminal	
28	4460466	1	Plug	
29	1001187079	1	Ring, Terminal	
30	4460955	1	Connector	
31	1001116748	2	Terminal	
32	4460955	1	Connector	
33	1001116748	2	Terminal	
34	1001190322	1	Connector	
35	4461005	2	Terminal	
36	4461054	2	Seal	
37	1001187078	1	Ring, Terminal	
38	1001187079	1	Ring, Terminal	
39	4460955	1	Connector	
40	1001116748	2	Terminal	
41	4460955	1	Connector	
42	1001116748	2	Terminal	
43	4460891	1	Connector	
44	4460465	2	Terminal	
45	4460955	1	Connector	
46	1001116748	2	Terminal	
47	4460955	1	Connector	
48	1001116748	2	Terminal	
49	1001117073	1	Connector	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001116749	2	Terminal	
51	4460608	2	Seal	
52	1001116950	1	Connector	
53	4460465	2	Terminal	
54	4460933	1	Connector	
55	4460465	8	Terminal	
56	4460466	4	Plug	
57	4461095	1	Connector	
58	4460943	2	Terminal	
59	4460466	1	Plug	
60	1001126349	1	Connector	
61	1001185824	6	Terminal	
62	1001185823	11	Terminal	
63	1001126353	6	Seal	
64	1001126357	4	Plug	
65	1001126356	73	Plug	
66	1001125027	1	Connector	
67	8220124	3	Terminal	
68	4460608	3	Seal	
69	1001187070	1	Ring, Terminal	
70	1001117125	1	Terminal, Snap Plug	
71	1001197407	1	Ring, Terminal	

FIGURE 10-56. FRAME WIRING INSTALLATION (ULS)

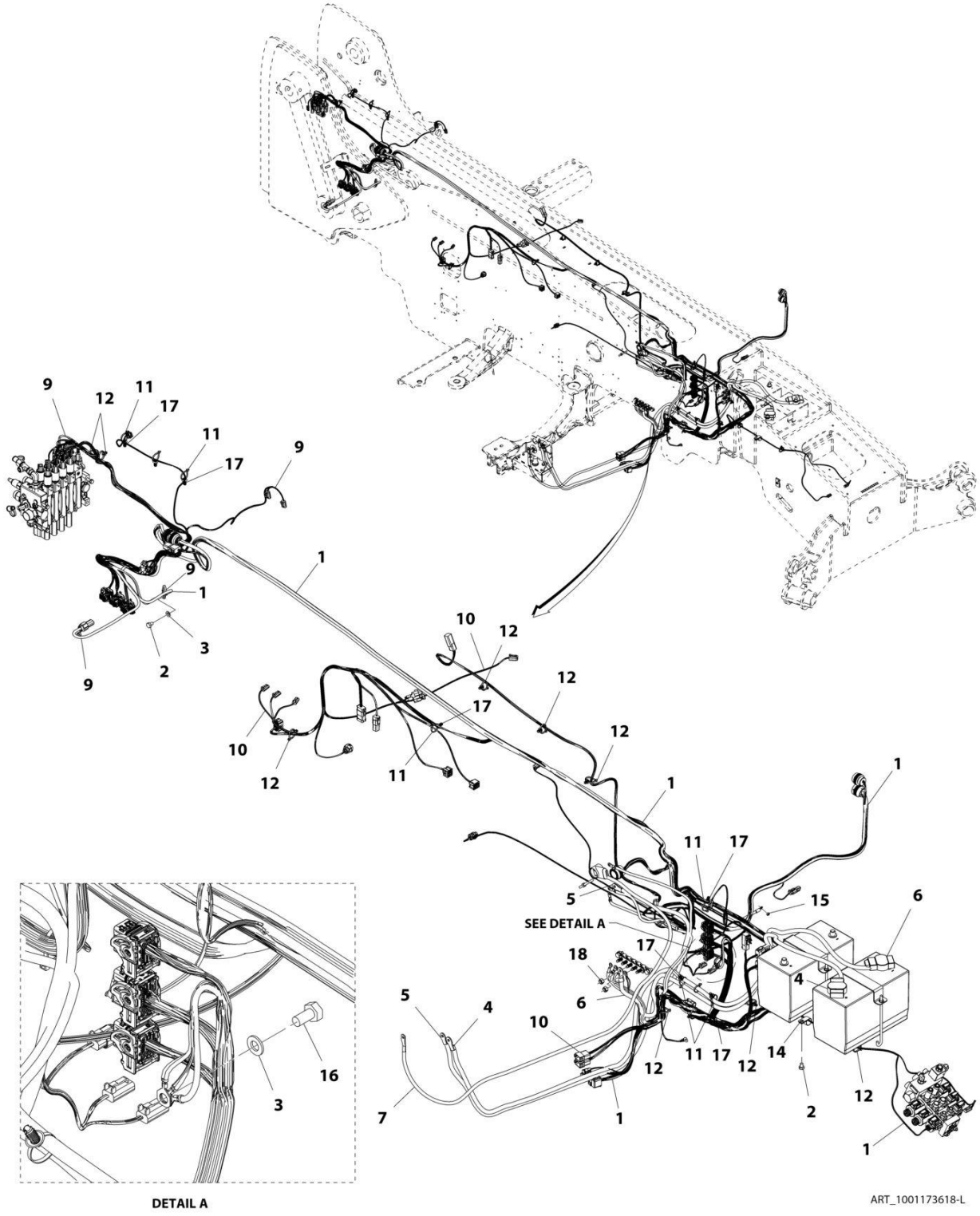


FIGURE 10-56. FRAME WIRING INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173618	Ref	Frame Wiring Installation (ULS)	L
1	1001221728	1	Harness, Front Frame (See Separate Breakdown in this Section)	
2	0761007	2	Bolt, M10X14	
3	4812000	2	Washer, M10	
4	1001203052	1	Cable, Battery + to Battery Disconnect	
5	1001170566	1	Cable, Battery Disconnect to PDM	
6	1001203053	1	Cable, Battery Negative	
7	1001200082	1	Cable, PDM to Grid Heater	
9	1001204351	1	Harness, Rear Frame (See Separate Breakdown in this Section)	
10	1001173091	1	Harness, Engine Chassis Harness (ULS) (See Separate Breakdown in this Section)	
11	1001008559	19	Strap, Cable	
12	1001146588	14	Strap, Cable Tie	
14	8406201	1	Clip, Wire and Tube	
15	3290601	1	Nut, M6X1	
16	0761010	1	Bolt, M10X20	
17	1001202986	9	Strap, Tie	
18	3291005	2	Nut, Lock M10X1.5	

FIGURE 10-57. FRAME WIRING INSTALLATION (LS)

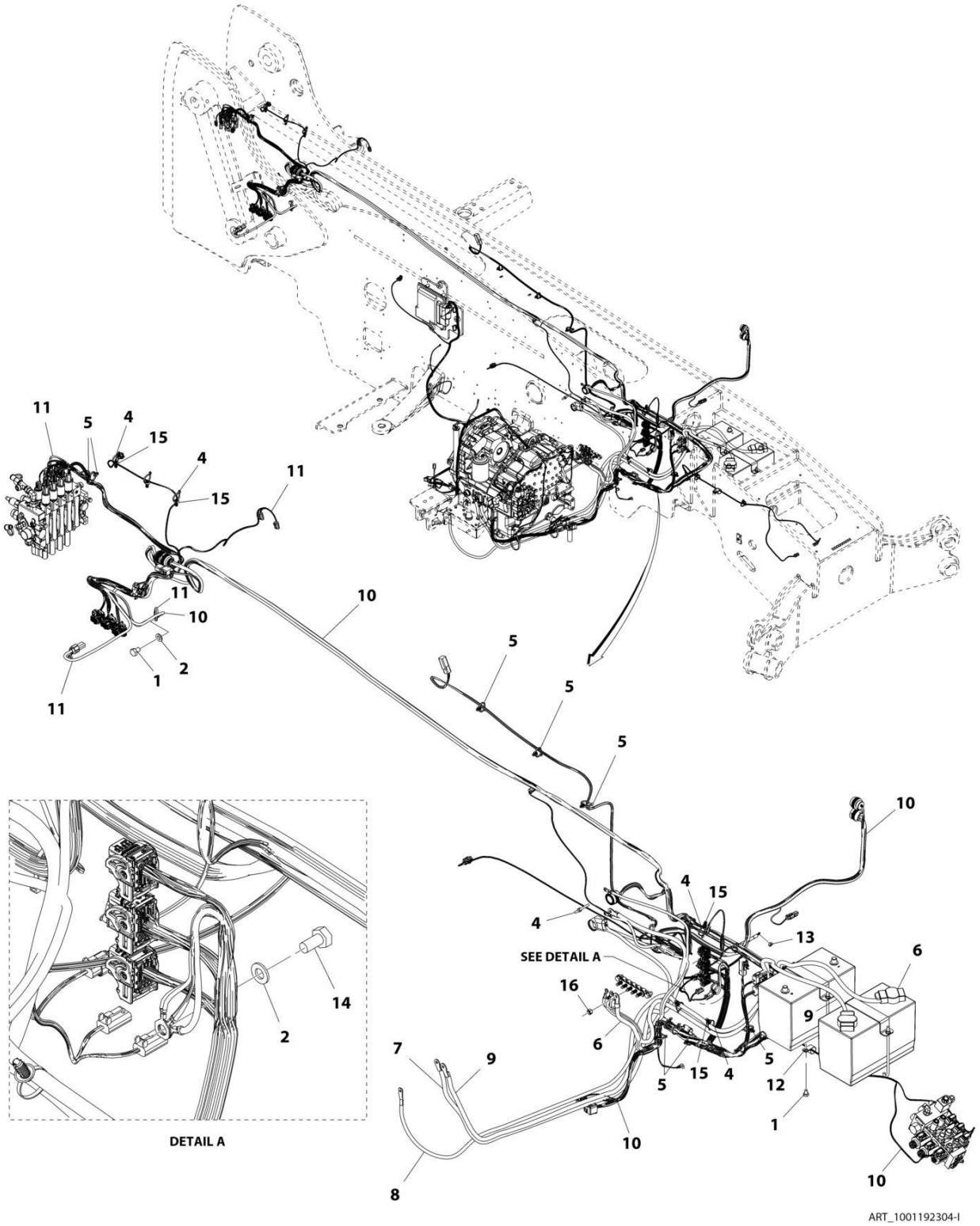


FIGURE 10-57. FRAME WIRING INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001192304	Ref	Frame Wiring Installation (LS)	I
1	0761007	2	Bolt, M10X14	
2	4812000	2	Washer, M10	
4	1001008559	19	Strap, Tie	
5	1001146588	13	Strap, Tie	
6	1001203053	1	Cable, Battery Negative	
7	1001170566	1	Cable, Battery Disconnect to PDM	
8	1001200082	1	Cable, PDM to Grid Heater	
9	1001203052	1	Cable, Battery + to Battery Disconnect	
10	1001221728	1	Harness, Front Frame (See Separate Breakdown in this Section)	
11	1001204351	1	Harness, Rear Frame (See Separate Breakdown in this Section)	
12	8406201	1	Clip, Wire and Tube	
13	3290601	1	Nut, M6X1	
14	0761010	1	Bolt, M10X20	
15	1001202986	8	Strap, Tie	
16	3291005	1	Nut, Lock M10X1.5	

FIGURE 10-58. FUEL FILTER HEATER INSTALLATION

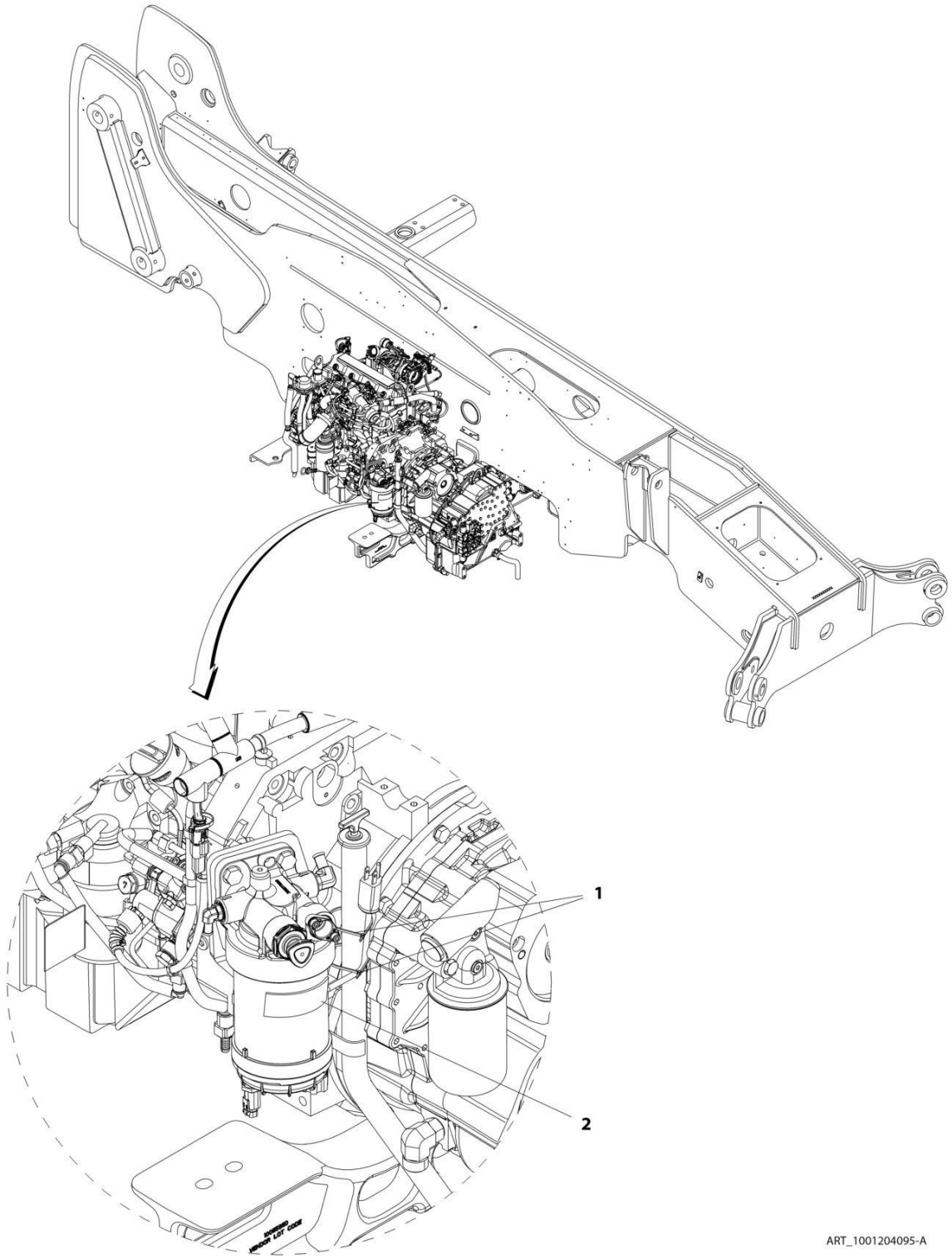


FIGURE 10-58. FUEL FILTER HEATER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001204095	Ref	Fuel Filter Heater Installation	A
1	4240099	2	Strap, Tie	
2	1001202498	1	Pad	

FIGURE 10-59. FRONT FRAME HARNESS

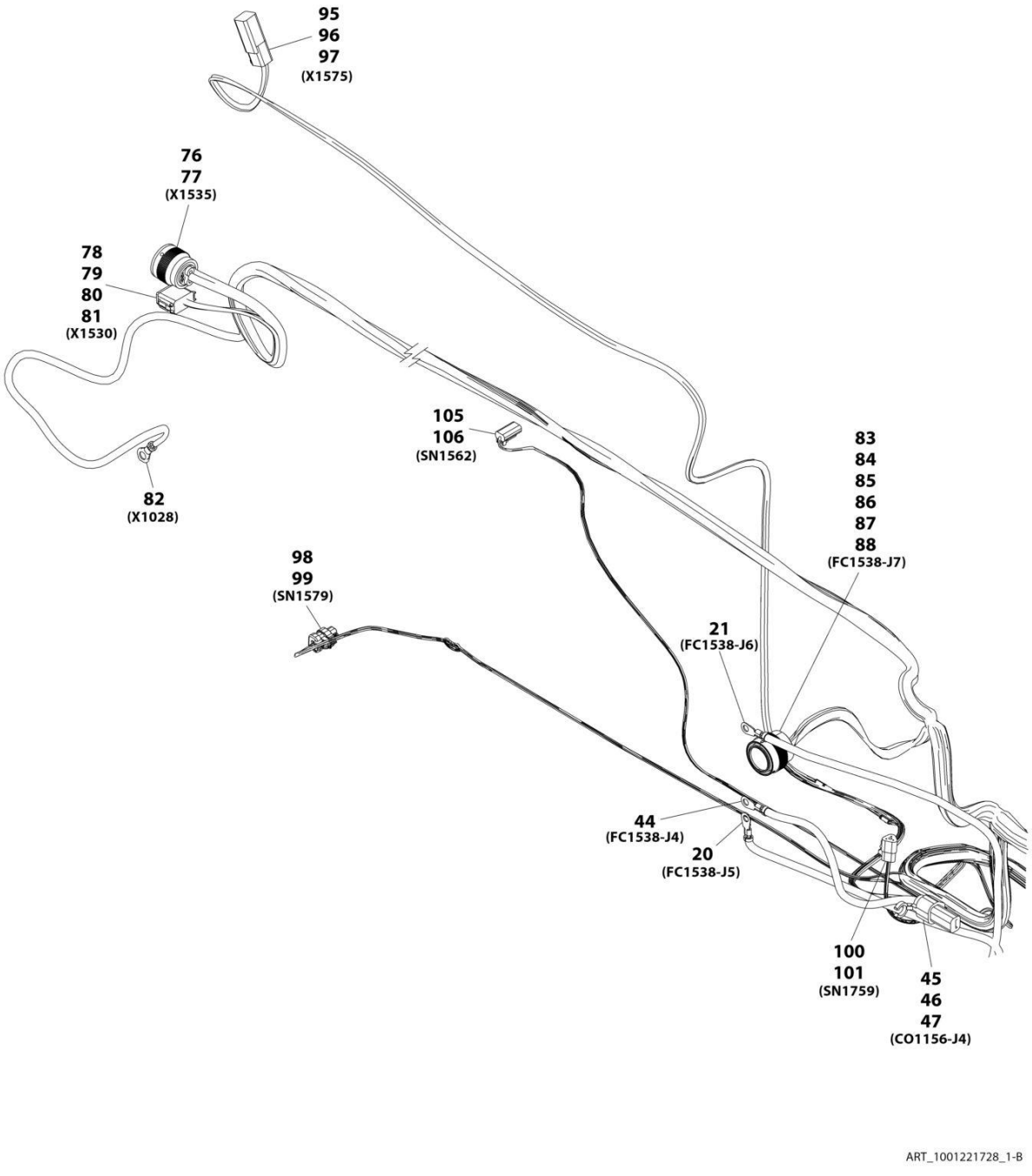


FIGURE 10-59. FRONT FRAME HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221728	1	HARNESS,FRONT FRAME	

FIGURE 10-60. FRONT FRAME HARNESS

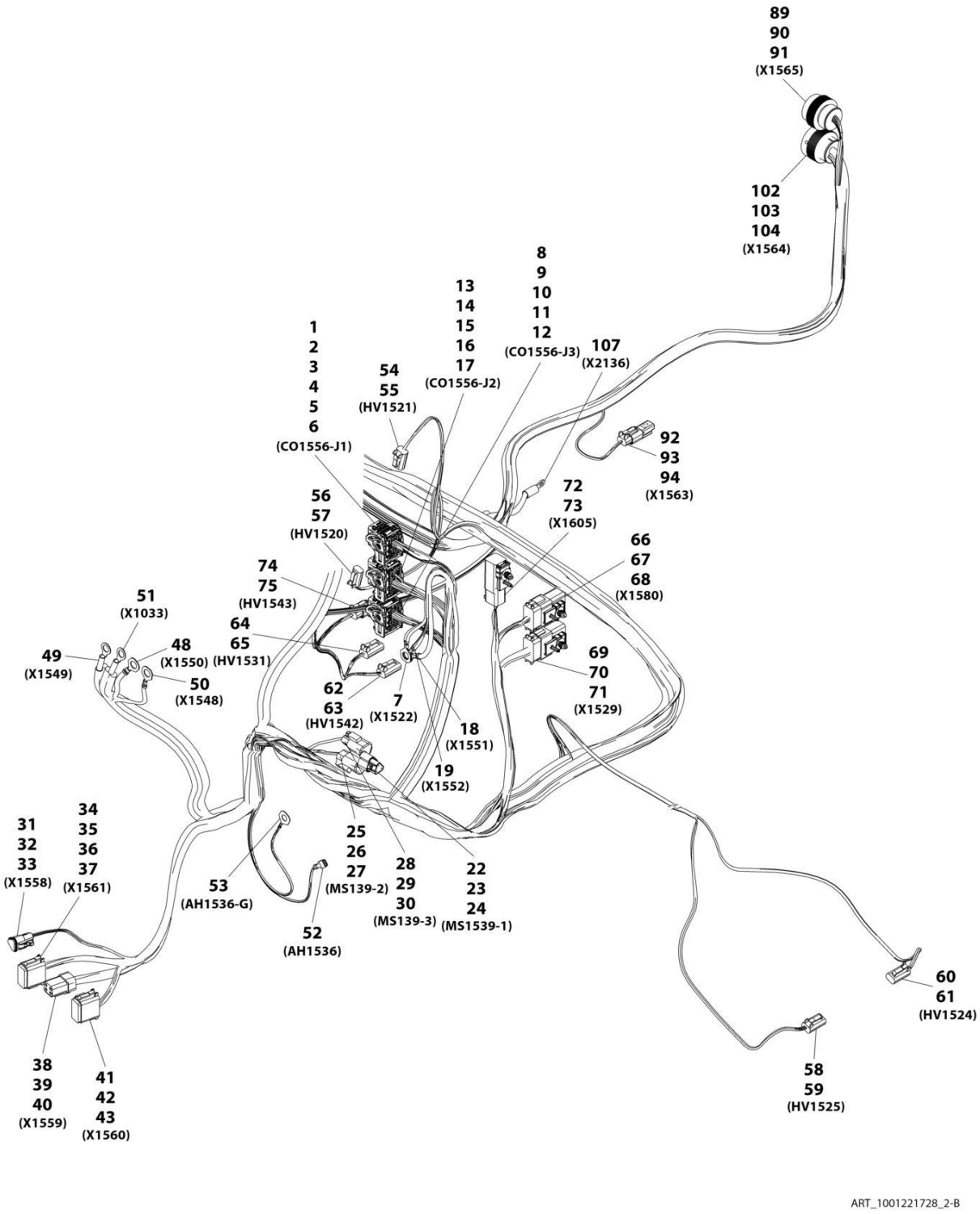


FIGURE 10-60. FRONT FRAME HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001161963	1	Connector	
2	1001161097	21	Terminal	
3	1001161099	5	Terminal	
4	1001161098	1	Terminal	
5	1001161100	19	Plug	
6	1001161101	2	Plug	
7	1001187079	1	Terminal, Ring	
8	1001160500	1	Connector	
9	1001161097	9	Terminal	
10	1001161099	7	Terminal	
11	1001161100	15	Plug	
12	1001161101	1	Plug	
13	1001161957	1	Connector	
14	1001161097	21	Terminal	
15	1001161099	1	Terminal	
16	1001161100	3	Plug	
17	1001161101	7	Plug	
18	1001187080	1	Terminal, Ring	
19	1001187080	1	Terminal, Ring	
20	1001187075	1	Terminal, Ring	
21	1001187075	1	Terminal, Ring	
22	1001116812	1	Connector	
23	4460944	2	Terminal	
24	4460466	1	Plug	
25	4460539	1	Connector	
26	4460944	2	Terminal	
27	4460466	1	Plug	
28	1001116812	1	Connector	
29	4460944	2	Terminal	
30	4460466	1	Plug	
31	1001116812	1	Connector	
32	4460465	2	Terminal	
33	4460466	1	Plug	
34	4460836	1	Connector	
35	4460942	1	Terminal	
36	4460465	10	Terminal	
37	4460466	1	Plug	
38	1001116810	1	Connector	
39	1001150611	3	Terminal	
40	4460509	1	Terminal	
41	4460933	1	Connector	
42	4460465	8	Terminal	
43	4460466	4	Plug	
44	1001187075	1	Terminal, Ring	
45	1001160509	1	Connector	
46	1001160510	1	Terminal	
47	1001175267	1	Seal	
48	1001187080	1	Terminal, Ring	
49	1001128127	1	Terminal, Ring	
50	1001187079	1	Terminal, Ring	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	1001128127	1	Terminal, Ring	
52	8220051	1	Terminal, Blade	
53	1001211775	1	Terminal, Ring	
54	4460891	1	Connector	
55	4460465	2	Terminal	
56	4460891	1	Connector	
57	4460465	2	Terminal	
58	4460891	1	Connector	
59	4460465	2	Terminal	
60	4460891	1	Connector	
61	4460465	2	Terminal	
62	4460891	1	Connector	
63	4460465	2	Terminal	
64	4460891	1	Connector	
65	4460465	2	Terminal	
66	4460836	1	Connector	
67	4460465	7	Terminal	
68	4460466	5	Plug	
69	4460933	1	Connector	
70	4460942	10	Terminal	
71	4460466	2	Plug	
72	4460894	1	Connector	
73	4460465	6	Terminal	
74	4460891	1	Connector	
75	4460465	2	Terminal	
76	1001165310	1	Connector	
77	91013192	2	Terminal	
78	4460933	1	Connector	
79	4460465	3	Terminal	
80	4460942	2	Terminal	
81	4460466	7	Plug	
82	1001187076	1	Terminal, Ring	
83	1001165309	1	Connector	
84	4460465	7	Terminal	
85	4460942	3	Terminal	
86	4460509	3	Terminal	
87	1001150611	3	Terminal	
88	4460466	3	Plug	
89	4461015	1	Connector	
90	4460465	7	Terminal	
91	4460466	7	Plug	
92	4460891	1	Connector	
93	4460942	1	Terminal	
94	4460466	1	Plug	
95	4460894	1	Connector	
96	4460942	4	Terminal	
97	4460465	2	Terminal	
98	1001116950	1	Connector	
99	4460465	2	Terminal	
100	4460539	1	Connector	
101	4460465	3	Terminal	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102	1001118323	1	Connector	
103	4460942	4	Terminal	
104	91013192	2	Terminal	
105	4460891	1	Connector	
106	4460465	2	Terminal	
107	8220116	1	Terminal, Ring	

FIGURE 10-61. FRONT FRAME HEADLIGHT HARNESS

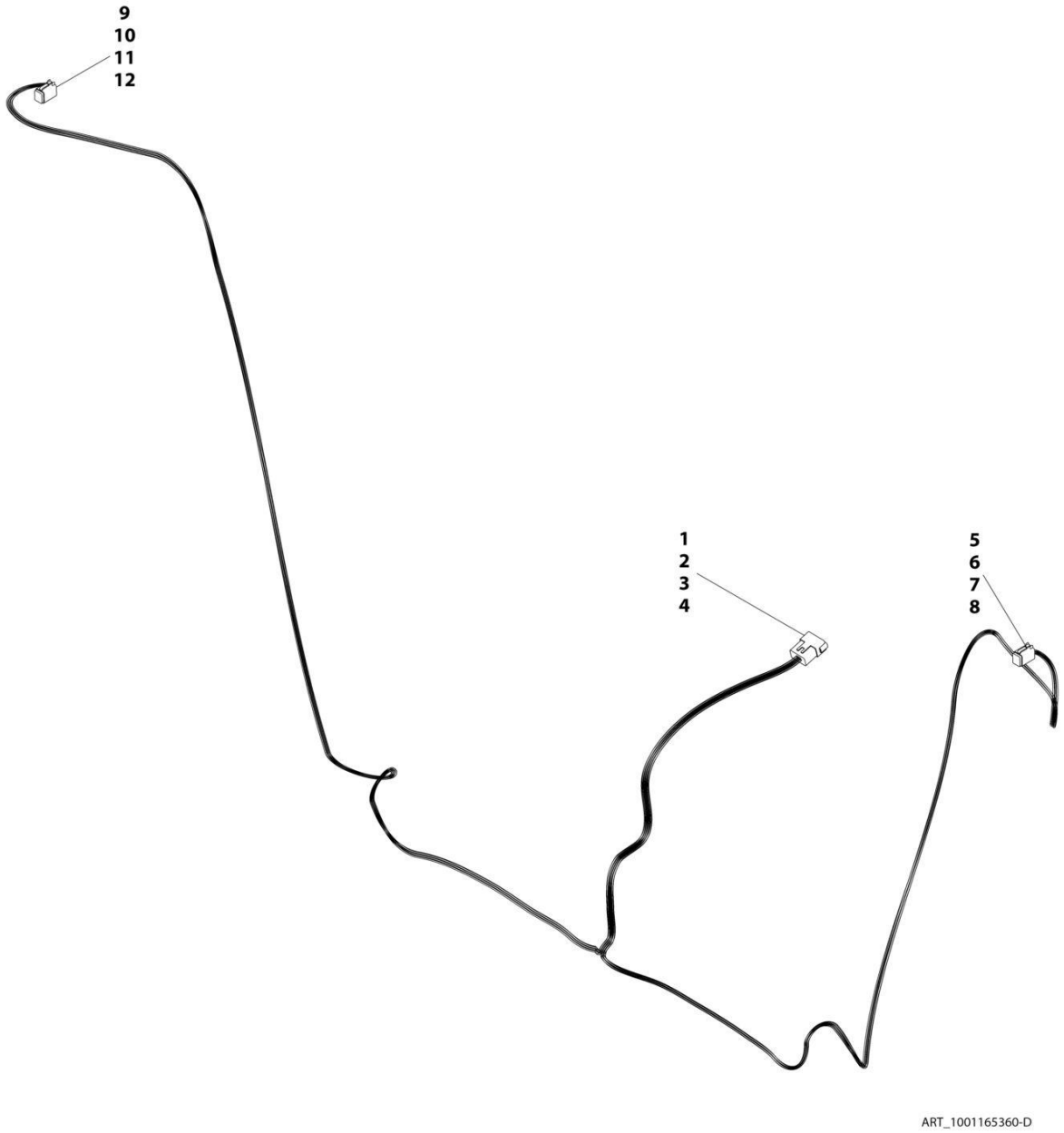
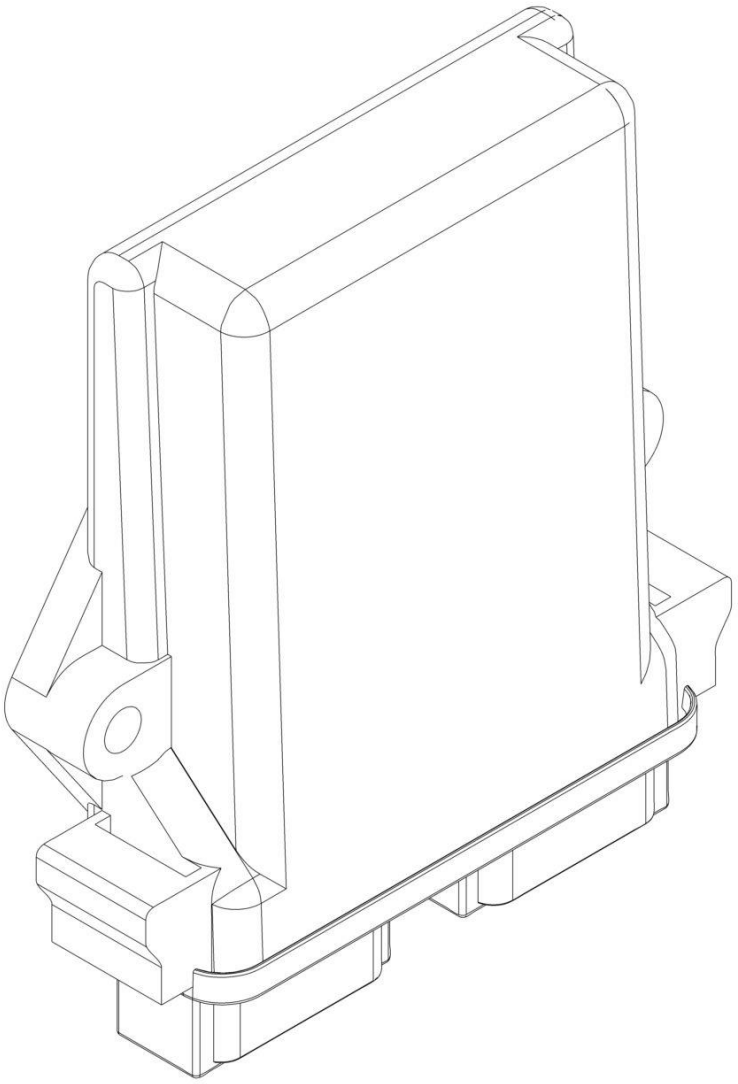


FIGURE 10-61. FRONT FRAME HEADLIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001165360	Ref	Front Frame Headlight Harness	D
1	4460970	1	Connector	
2	80363179	1	Lock, Connector	
3	4460941	10	Terminal	
4	4460466	2	Plug	
5	4460894	1	Connector	
6	91504107	1	Lock, Connector	
7	4460942	5	Terminal	
8	4460466	1	Plug	
9	4460894	1	Connector	
10	91504107	1	Lock, Connector	
11	4460942	5	Terminal	
12	4460466	1	Plug	

FIGURE 10-62. GATEWAY CONTORLLER



ART_1001229458

FIGURE 10-62. GATEWAY CONTORLLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001229458	Ref	Gateway Controller (SOLD AS ASSEMBLY ONLY)	B

FIGURE 10-63. HYDRAULIC TANK HEATER INSTALLATION

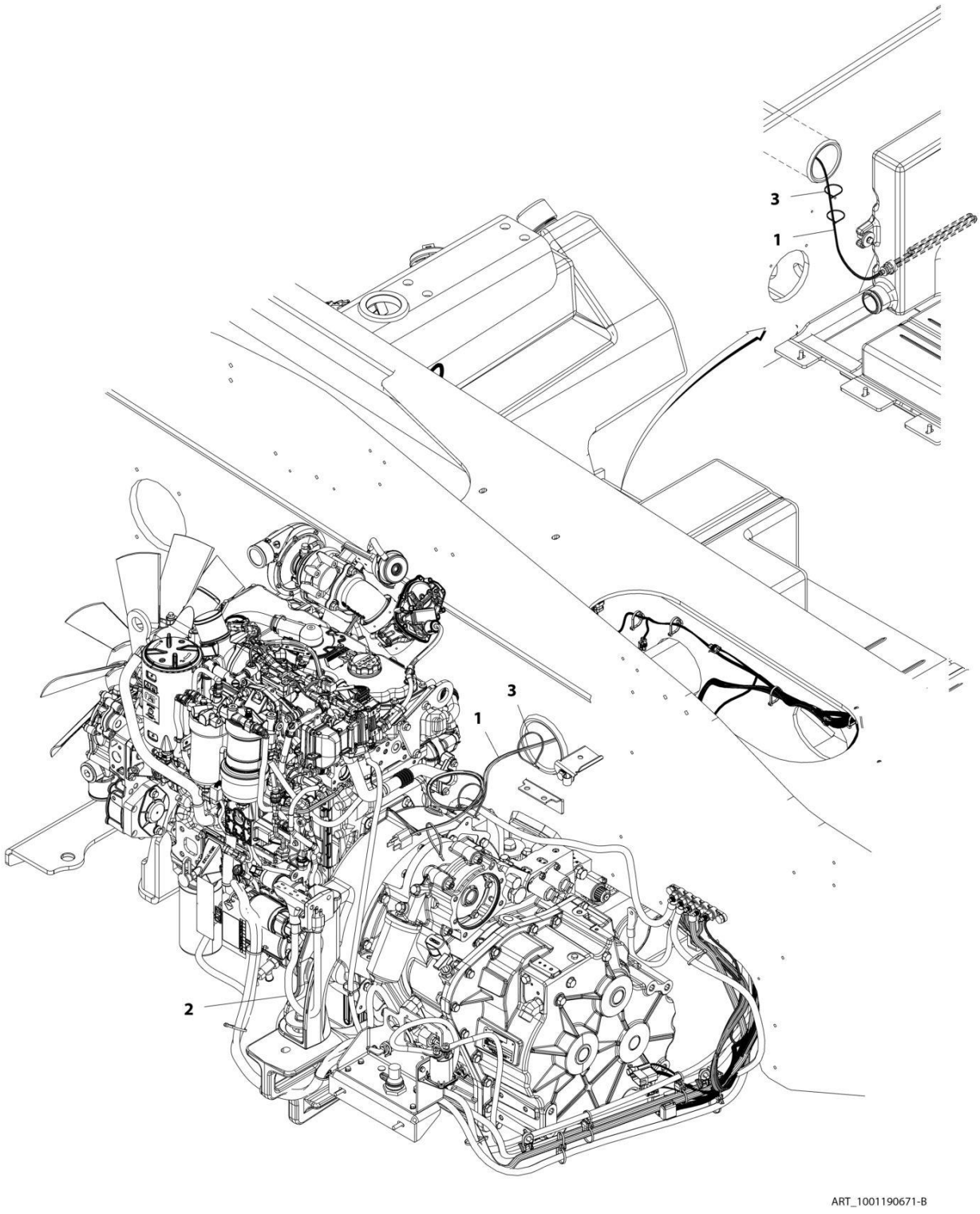


FIGURE 10-63. HYDRAULIC TANK HEATER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001190671	Ref	Hydraulic Tank Heater Installation	B
1	1001105886	1	Heater, Immersion	
2	1060626	1	Cord, 3-Way Extension	
3	4240099	5	Strap, Tie	

FIGURE 10-64. HVAC ACTUATORS HARNESS

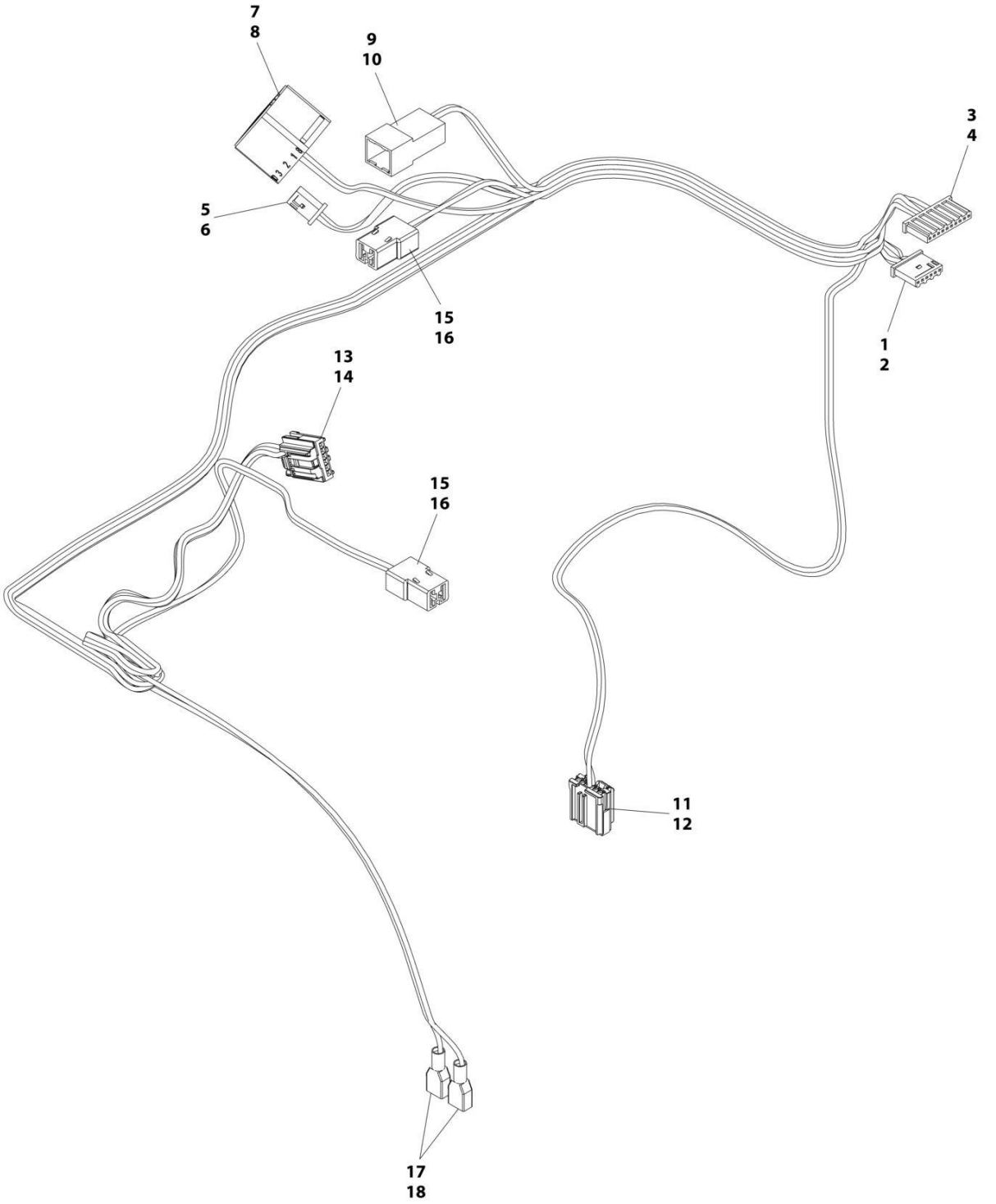


FIGURE 10-64. HVAC ACTUATORS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221056	Ref	HVAC ACTUATOR HARNESS	E
		Ref	Note: No Other Service Parts Available At Time of Printing.	
1		Ref	Connector	
2		Ref	Terminal	
3		Ref	Connector	
4		Ref	Terminal	
5	1001184473	1	Connector	
6		Ref	Terminal	
7		Ref	Connector	
8		Ref	Connector	
9	1001116999	1	Connector	
10	7029668	2	Terminal	
11		Ref	Connector	
12		Ref	Terminal	
13		Ref	Connector	
14		Ref	Terminal	
15	1001116991	2	Connector	
16		Ref	Terminal	
17	8220108	2	Connector	
18		Ref	Terminal	

FIGURE 10-65. MAIN ELECTRICAL INSTALLATION (ULS)

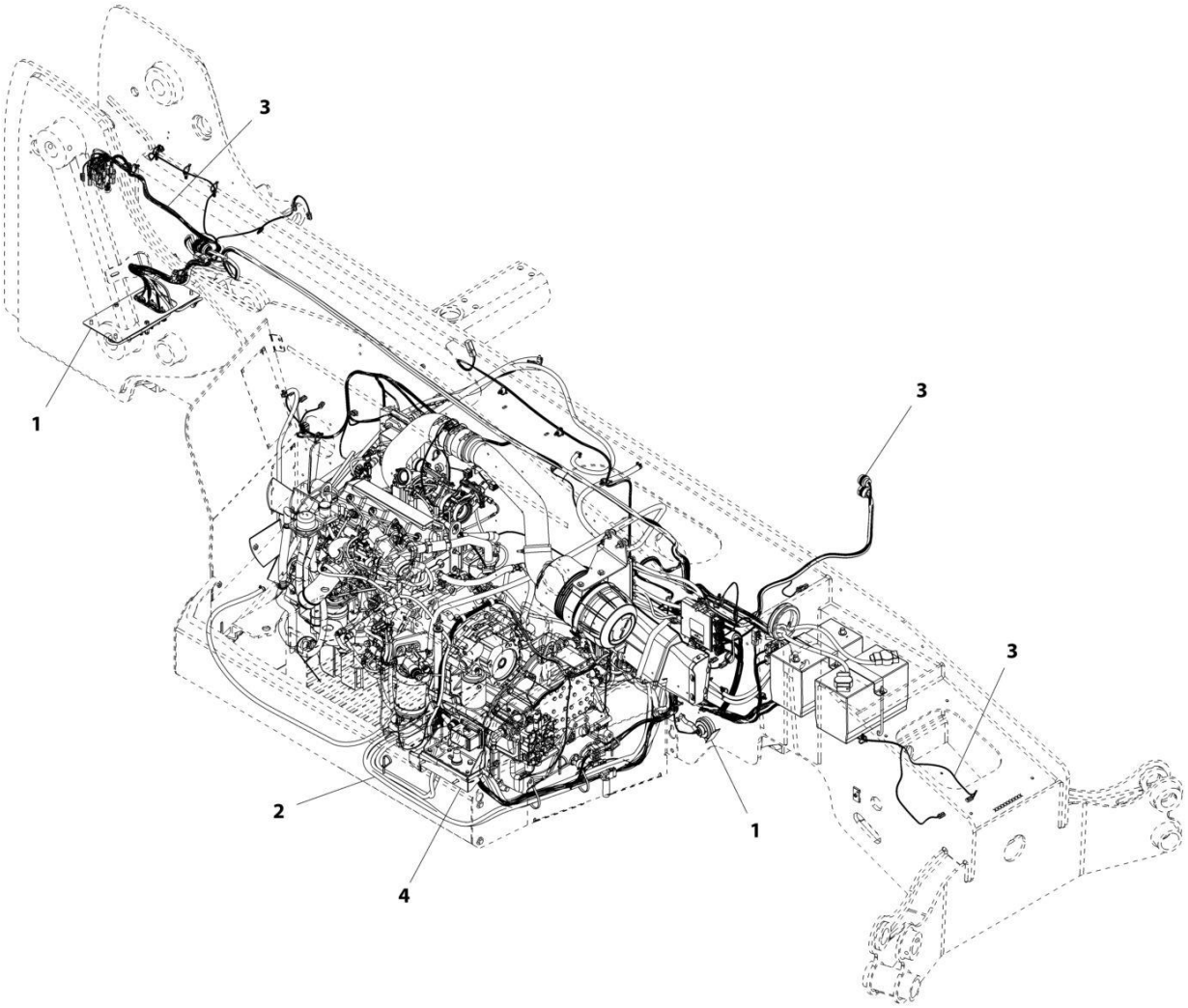


FIGURE 10-65. MAIN ELECTRICAL INSTALLATION (ULS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173622	Ref	Main Electrical Installation (ULS)	C
1	1001167051	Ref	Installation, Electrical Frame (See Separate Breakdown in this Section)	
2	1001173531	Ref	Installation, Engine Bay Wiring (ULS) (See Separate Breakdown in this Section)	
3	1001173618	Ref	Installation, Frame Wiring (ULS) (See Separate Breakdown in this Section)	
4	1001163127	Ref	Installation, Engine Bay Electrical (See Separate Breakdown in this Section)	

FIGURE 10-66. MAIN ELECTRICAL INSTALLATION (LS)

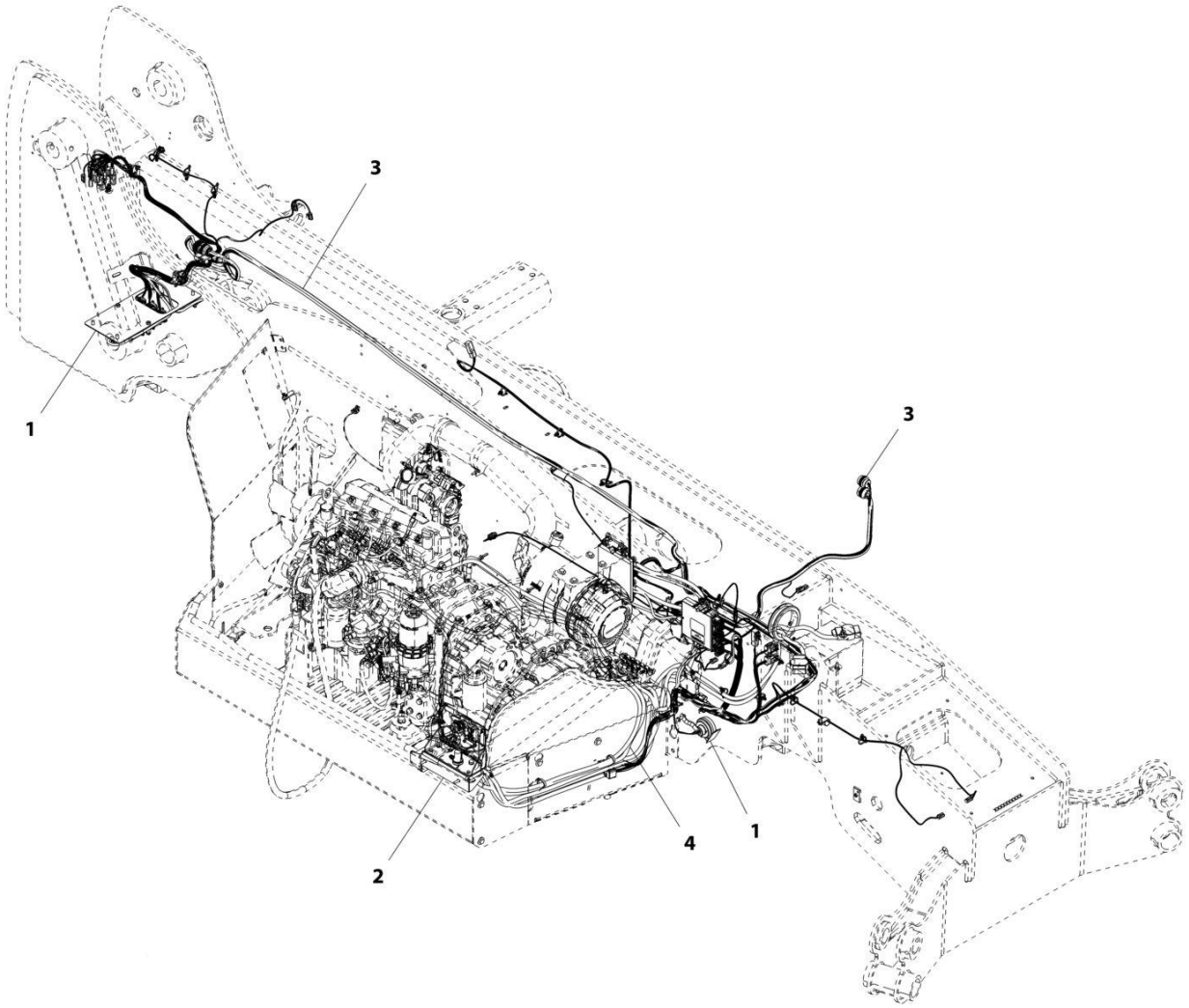


FIGURE 10-66. MAIN ELECTRICAL INSTALLATION (LS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001192302	Ref	Main Electrical Installation (LS) (642,742)	A
1	1001167051	Ref	Installation, Electrical Frame (See Separate Breakdown in this Section)	
2	1001173765	Ref	Installation, Engine Bay Electrical (See Separate Breakdown in this Section)	
3	1001192304	Ref	Installation, Frame Wiring (LS) (See Separate Breakdown in this Section)	
4	1001193171	Ref	Installation, Engine Bay Wiring (See Separate Breakdown in this Section)	

FIGURE 10-67. MULTIFUNCTION DISPLAY INSTALLATION

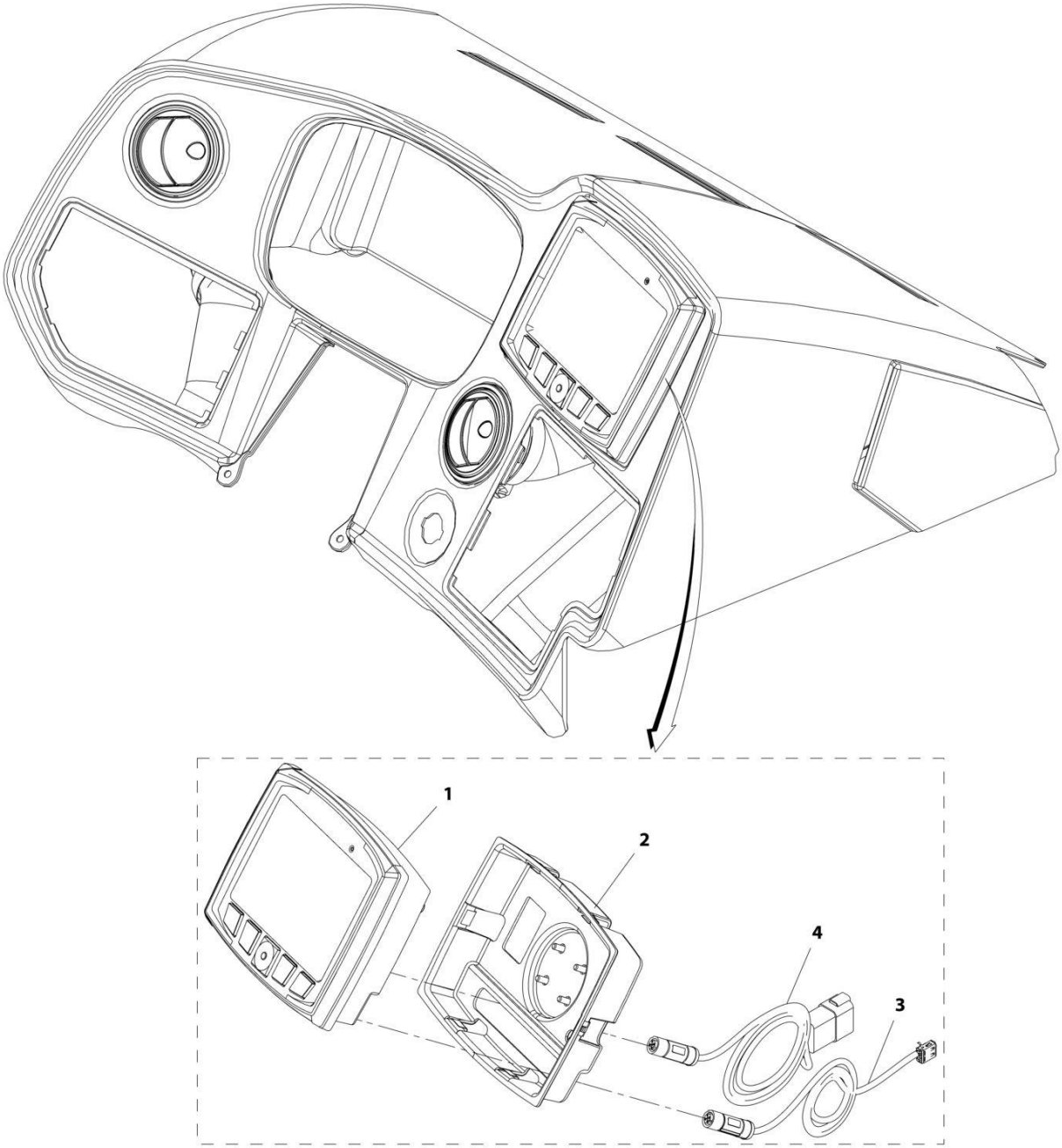


FIGURE 10-67. MULTIFUNCTION DISPLAY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176338	Ref	Multifunction Display Installation	B
1	1001211357	1	Display	
2	1001178783	1	Bezel	
3	1001180682	1	Cable, Display Programming	
4	1001180683	1	Cable, Display Video	

FIGURE 10-68. OPEN CAB ELECTRICAL INSTALLATION WITH OPTIONS

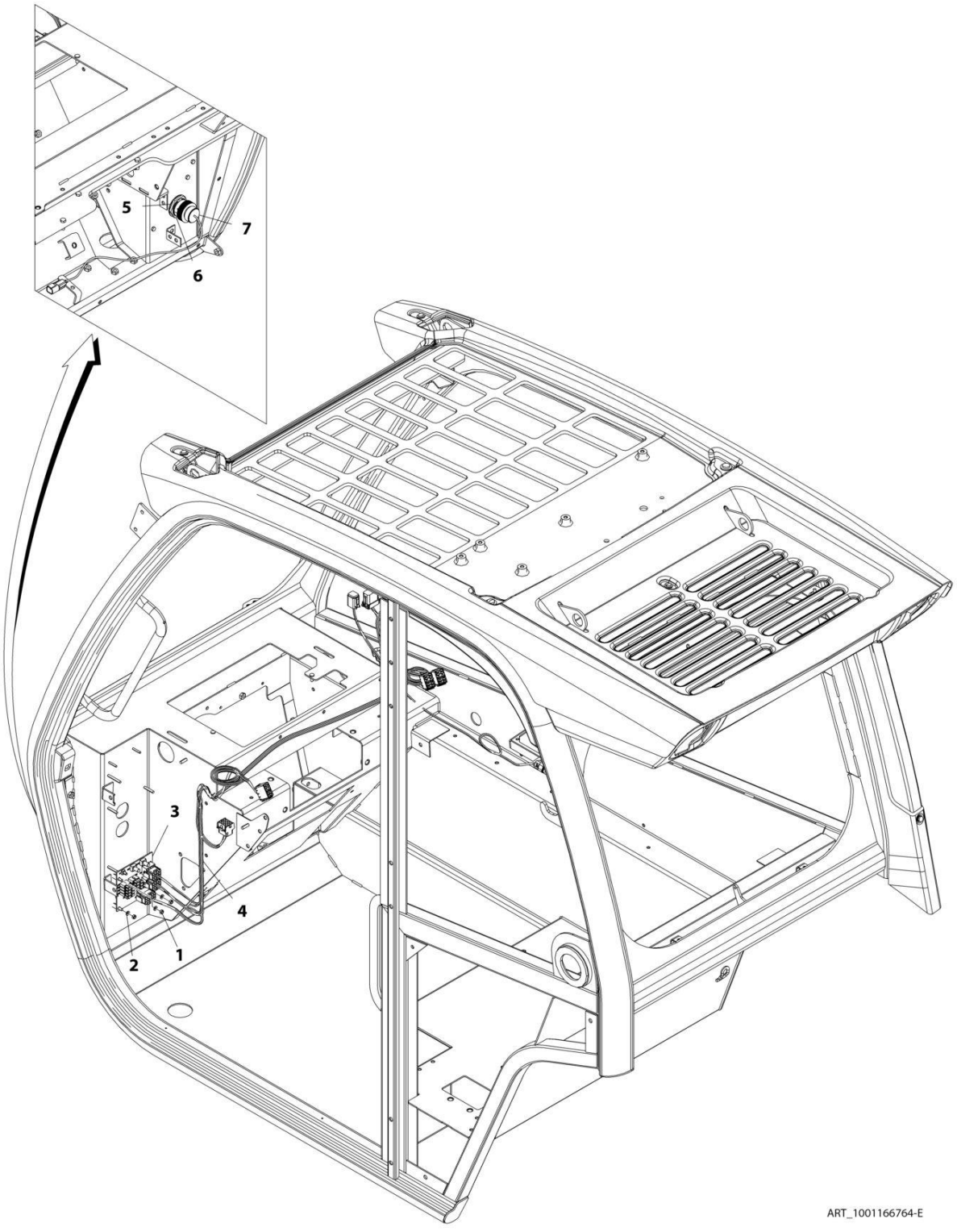


FIGURE 10-68. OPEN CAB ELECTRICAL INSTALLATION WITH OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166764	Ref	Open Cab Electrical Installation with Options	E
1	3290501	3	Nut, M5X0.8	
2	120034	3	Washer, Plastic	
3	1001161771	1	Assembly, Option 2 Electrical Board (See Separate Breakdown in this Section)	
4	1001163372	1	Harness, Option 2 Cab (See Separate Breakdown in this Section)	
5	4460496	1	Washer, Terminal Lock	
6	4460497	1	Nut, Terminal	
7	1001181573	1	Harness, Cab Option (See Separate Breakdown in this Section)	

FIGURE 10-69. OUTRIGGER HARNESS

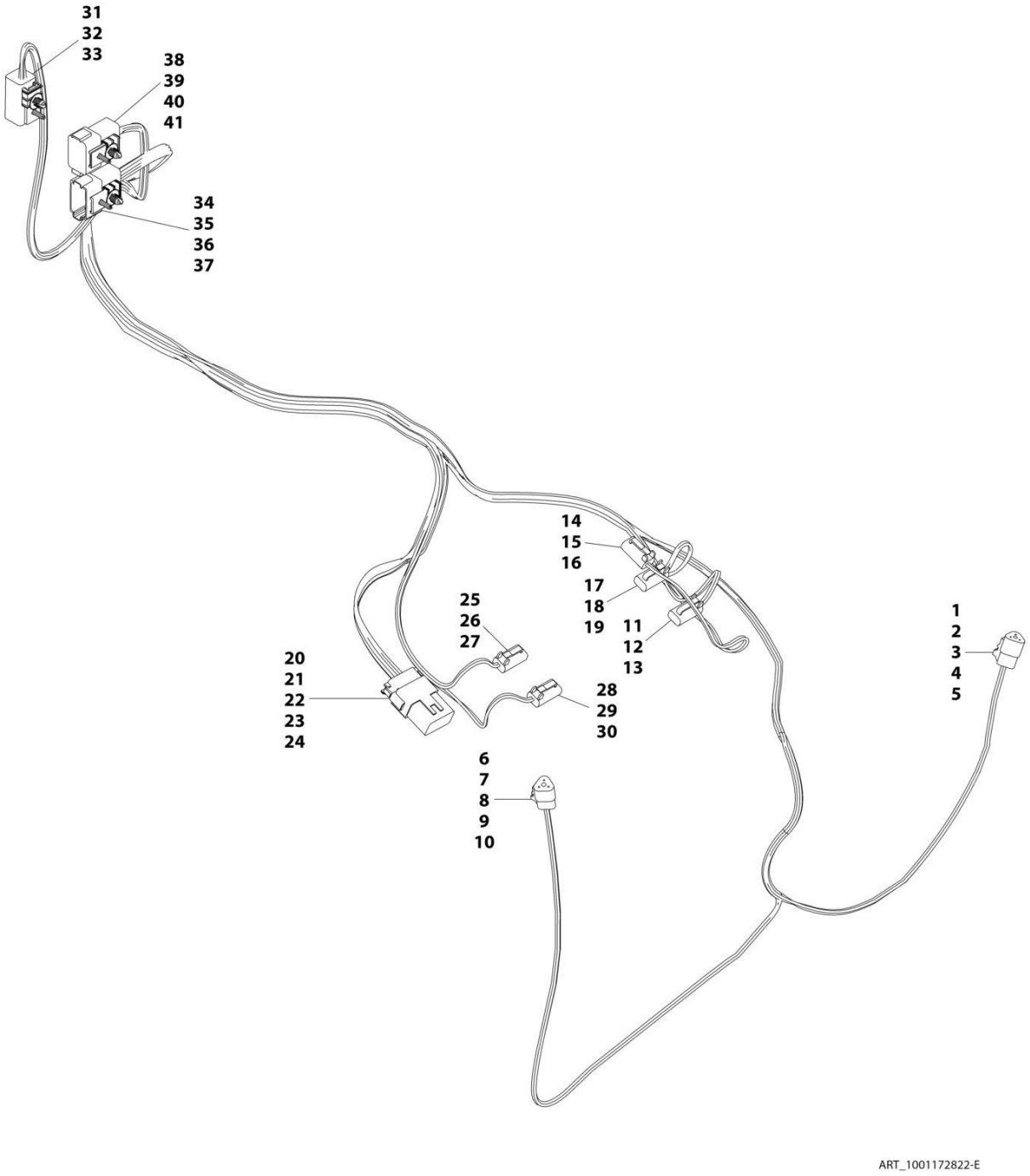


FIGURE 10-69. OUTRIGGER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172822	Ref	Outrigger Harness	E
1	4460539	1	Connector	
2	77363244	1	Lock, Secondary	
3	4460536	1	Terminal, 3 Pin Male	
4	4460465	3	Terminal	
5	4460466	1	Plug	
6	4460539	1	Connector	
7	77363244	1	Lock, Secondary	
8	4460536	1	Terminal, 3 Pin Male	
9	4460465	3	Terminal	
10	4460466	1	Plug	
11	4460891	1	Connector	
12	80604018	1	Lock, Secondary	
13	4460465	2	Terminal	
14	4460891	1	Connector	
15	80604018	1	Lock, Secondary	
16	4460465	2	Terminal	
17	4460891	1	Connector	
18	80604018	1	Lock, Secondary	
19	4460465	2	Terminal	
20	4460933	1	Connector	
21	80604016	1	Lock, Secondary	
22	4460970	1	Terminal, Receptacle	
23	4460942	10	Terminal	
24	4460466	2	Plug	
25	4460891	1	Connector	
26	80604018	1	Lock, Secondary	
27	4460465	2	Terminal	
28	4460891	1	Connector	
29	80604018	1	Lock, Secondary	
30	4460465	2	Terminal	
31	4460899	1	Connector	
32	80604022	1	Lock, Secondary	
33	4460464	6	Terminal	
34	4460970	1	Connector	
35	80363179	1	Lock, Secondary	
36	4460941	10	Terminal	
37	4460466	2	Plug	
38	4460950	1	Connector	
39	80363179	1	Lock, Secondary	
40	4460464	7	Terminal	
41	4460466	5	Plug	

FIGURE 10-70. OPTION 1 CAB HARNESS

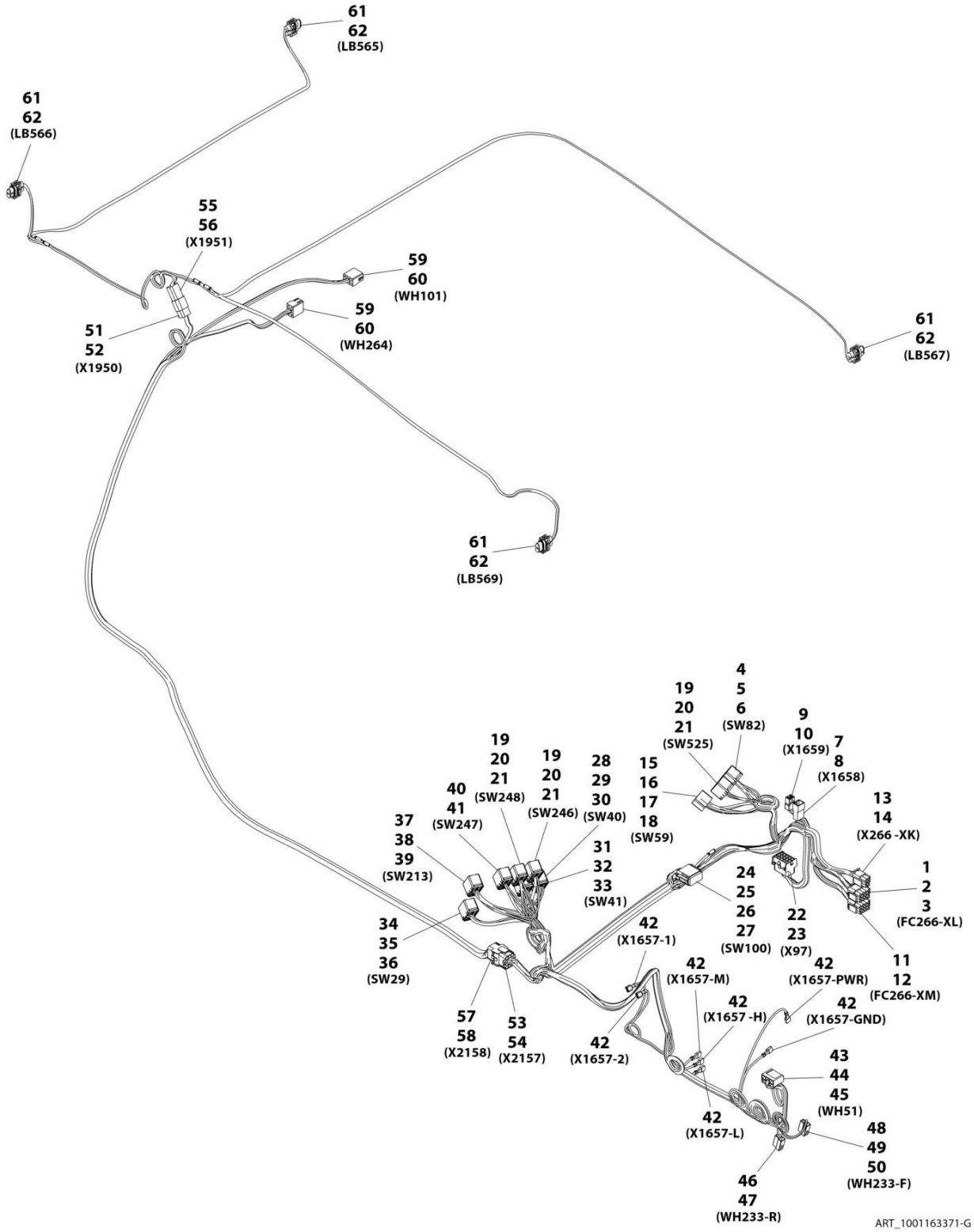


FIGURE 10-70. OPTION 1 CAB HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163371	Ref	Option 1 Cab Harness	G
1	4460343	1	Connector	
2	4460268	10	Terminal	
3	4460906	1	Terminal	
4	1001117081	1	Connector	
5	1001116723	6	Terminal	
6	1001118384	1	Terminal	
7	1001116999	1	Connector	
8	1001116700	4	Terminal	
9	1001116991	1	Connector	
10	1001118384	2	Terminal	
11	4460343	1	Connector	
12	4460267	6	Terminal	
13	4460225	1	Connector	
14	4460267	5	Terminal	
15	4460705	1	Terminal	
16	1001173411	1	Connector	
17	1001265008	4	Terminal	
18	1001104519	3	Terminal	
19	1001117081	1	Connector	
20	1001118384	2	Terminal	
21	1001116723	4	Terminal	
22	4460708	1	Connector	
23	4460267	14	Terminal	
24	4460836	1	Connector	
25	4460942	3	Terminal	
26	4460465	8	Terminal	
27	1001157890	1	Terminal	
28	80604016	1	Lock, Connector	
29	1001117081	1	Connector	
30	1001118384	4	Terminal	
31	1001116723	6	Terminal	
32	1001117081	1	Connector	
33	1001118384	3	Terminal	
34	1001116723	4	Terminal	
35	1001117081	1	Connector	
36	1001118384	2	Terminal	
37	1001116723	4	Terminal	
38	1001117081	1	Connector	
39	1001118384	2	Terminal	
40	1001116723	4	Terminal	
41	1001117081	1	Connector	
42	1001116723	8	Terminal	
43	1001118384	2	Terminal	
44	1001117079	1	Connector	
45	1001116723	6	Terminal	
46	1001118384	2	Terminal	
47	1001117081	1	Connector	
48	1001118384	4	Terminal	
49	8220051	1	Female Blade Coupler	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	8220051	1	Female Blade Coupler	
51	8220051	1	Female Blade Coupler	
52	8220051	1	Female Blade Coupler	
53	8220051	1	Female Blade Coupler	
54	8220051	1	Female Blade Coupler	
55	8220051	1	Female Blade Coupler	
56	1001116997	1	Connector	
57	1001118384	4	Terminal	
58	1001116723	1	Terminal	
59	4460994	1	Connector	
60	1001118384	2	Terminal	
61	4460994	1	Connector	
62	1001118384	1	Terminal	
63	1001116723	2	Terminal	
64	4460884	1	Connector	
65	4460942	4	Terminal	
66	80604021	1	Lock, Connector	
67	4460932	1	Connector	
68	4460941	4	Terminal	
69	80604021	1	Lock, Connector	
70	1001116986	1	Connector	
71	1001118384	4	Terminal	
72	1001116986	1	Connector	
73	1001118384	4	Terminal	
74	4461115	1	Connector	
75	1001116747	2	Terminal	
76	4461115	1	Connector	
77	1001116747	2	Terminal	
78	4461115	1	Connector	
79	1001116747	2	Terminal	
80	4461115	1	Connector	
81	1001116747	2	Terminal	
82	4460343	1	Connector	
83	4460268	12	Terminal	
84	4460367	1	Connector	
85	4460267	12	Terminal	

FIGURE 10-71. OPTION 2 CAB HARNESS

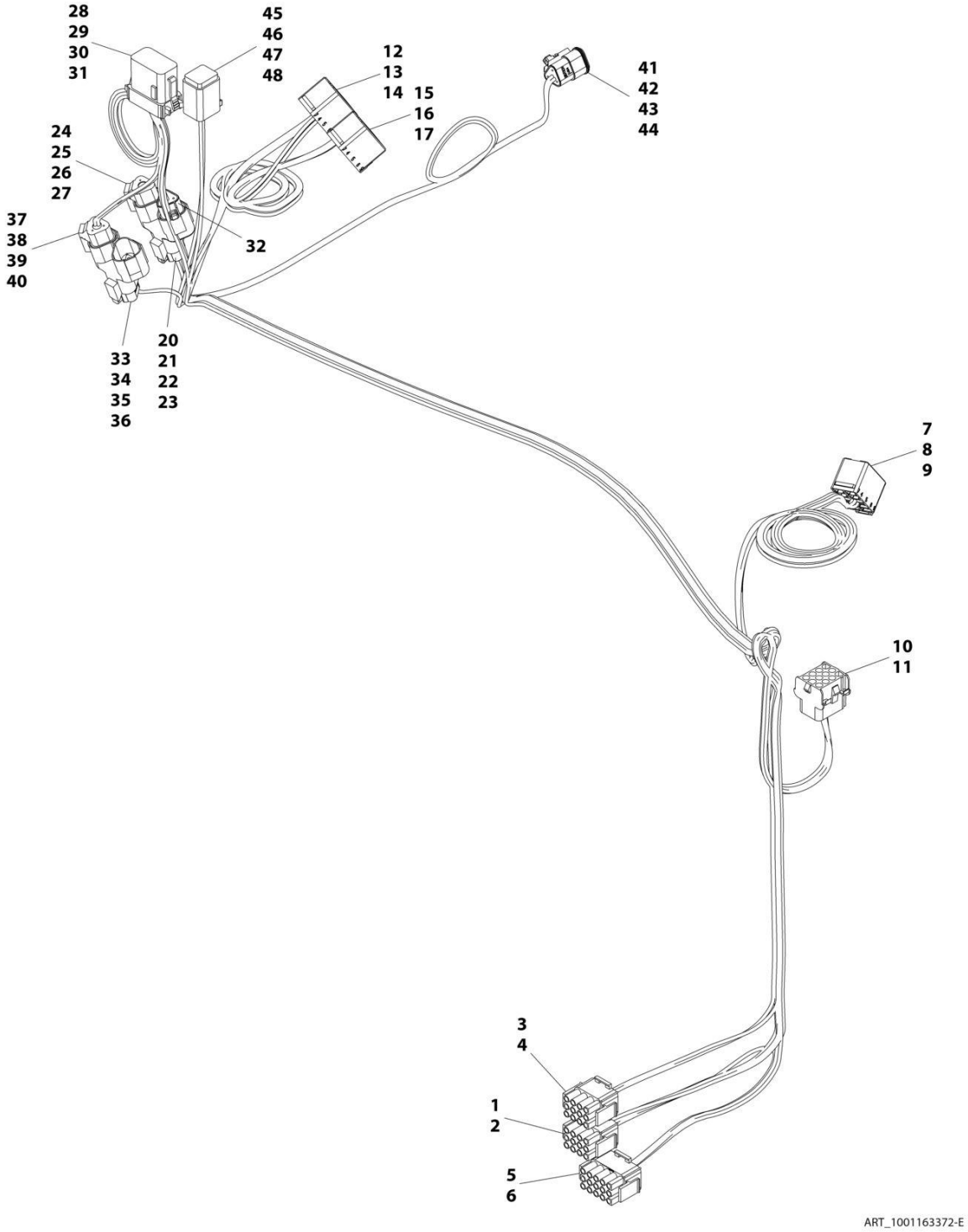


FIGURE 10-71. OPTION 2 CAB HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163372	Ref	Option 2 Cab Harness	E
1	4460343	1	Connector	
2	4460268	5	Terminal	
3	4460343	1	Connector	
4	4460267	2	Terminal	
5	4460434	1	Connector	
6	4460268	4	Terminal	
7	1001117081	1	Connector	
8	1001116723	6	Terminal	
9	1001118384	1	Terminal	
10	4460367	1	Connector	
11	4460267	6	Terminal	
12	1001117081	1	Connector	
13	1001118384	2	Terminal	
14	1001116723	4	Terminal	
15	1001117081	1	Connector	
16	1001118384	3	Terminal	
17	1001116723	2	Terminal	
20	1001116812	1	Connector	
21	91554019	1	Lock, Connector	
22	4460944	2	Terminal	
23	4460466	1	Plug	
24	4460539	1	Connector	
25	77363244	1	Wedge Lock	
26	4460466	1	Plug	
27	4460944	2	Terminal	
28	1001176333	1	Connector	
29	4460944	4	Terminal	
30	4460466	11	Plug	
31	4460465	3	Terminal	
32	1001116815	1	Connector	
33	1001116812	1	Connector	
34	4460944	2	Terminal	
35	4460466	1	Plug	
36	91554019	1	Connector	
37	4460539	1	Connector	
38	77363244	1	Wedge Lock	
39	4460466	1	Plug	
40	4460944	2	Terminal	
41	1001116812	1	Connector	
42	91554019	1	Lock, Connector	
43	4460944	2	Terminal	
44	4460466	1	Plug	
45	4460930	1	Connector	
46	80604025	1	Lock, Connector	
47	4460466	6	Plug	
48	4460465	2	Terminal	

FIGURE 10-72. OPTION 1 ELECTRICAL BOARD ASSEMBLY

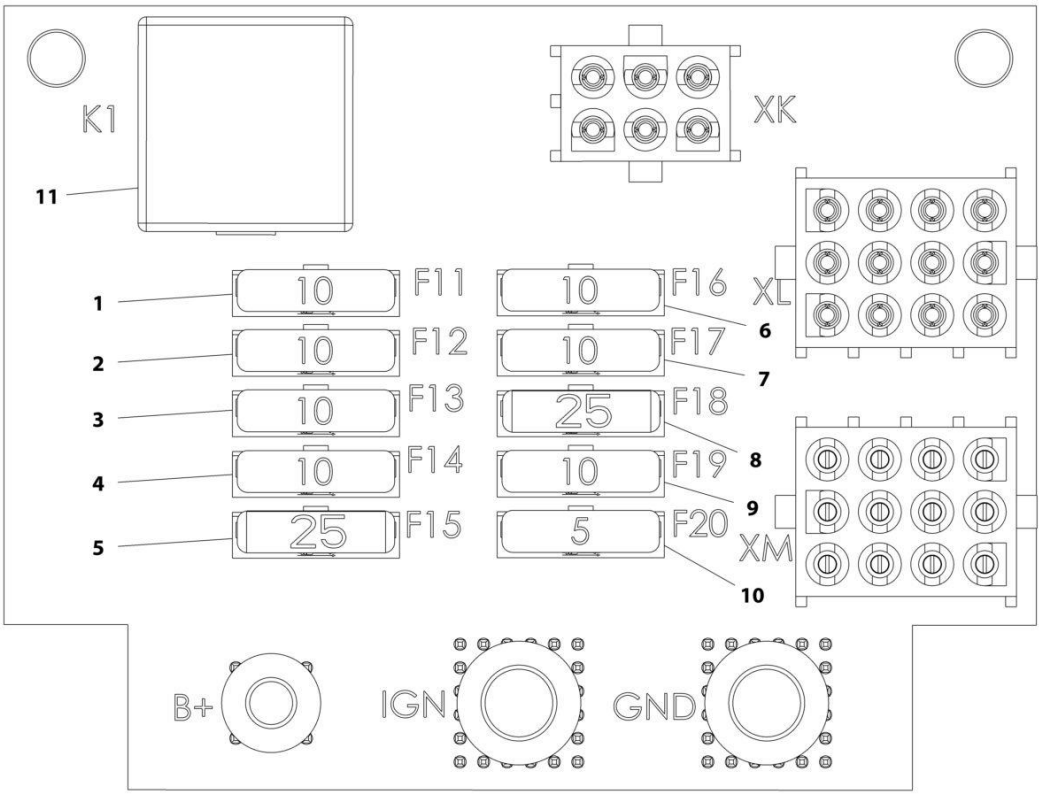
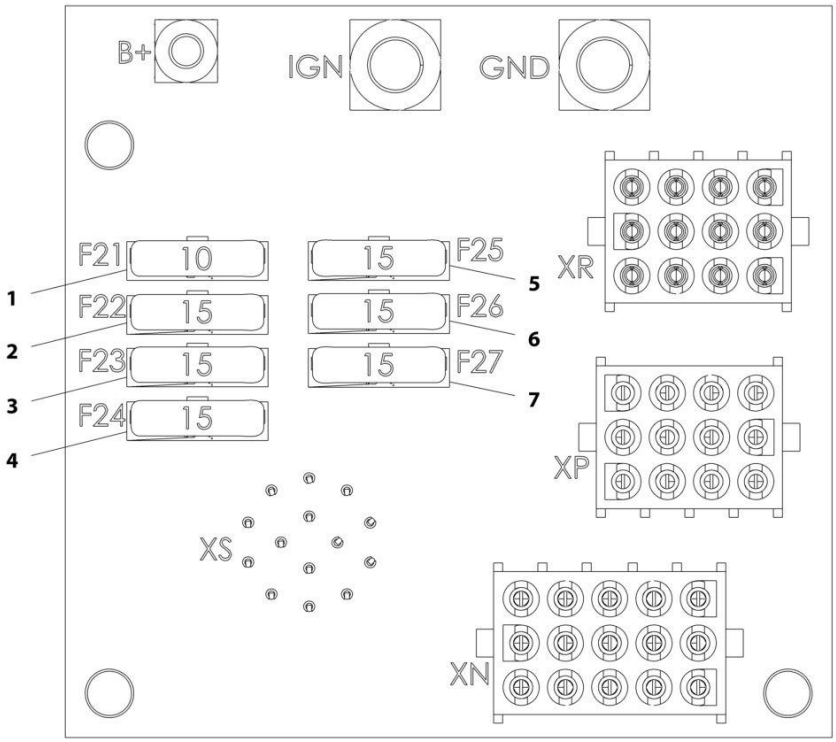


FIGURE 10-72. OPTION 1 ELECTRICAL BOARD ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161770	Ref	Option 1 Electrical Board Assembly	C
1	80983191	1	Fuse, 10AMP	
2	80983191	1	Fuse, 10AMP	
3	80983191	1	Fuse, 10AMP	
4	80983191	1	Fuse, 10AMP	
5	8229247	1	Fuse, 25AMP	
6	80983191	1	Fuse, 10AMP	
7	80983191	1	Fuse, 10AMP	
8	8229247	1	Fuse, 25AMP	
9	80983191	1	Fuse, 10AMP	
10	8229242	1	Fuse, 5AMP	
11	70026293	1	Fuse, 50AMP	

FIGURE 10-73. OPTION 2 ELECTRICAL BOARD ASSEMBLY



ART_1001161771-B

FIGURE 10-73. OPTION 2 ELECTRICAL BOARD ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161771	Ref	Option 2 Electrical Board Assembly	B
1	80983191	1	Fuse, 10AMP	
2	8229244	1	Fuse, 15AMP	
3	8229244	1	Fuse, 15AMP	
4	8229244	1	Fuse, 15AMP	
5	8229244	1	Fuse, 15AMP	
6	8229244	1	Fuse, 15AMP	
7	8229244	1	Fuse, 15AMP	

FIGURE 10-74. POWER DISTRIBUTION ELECTRICAL BOX

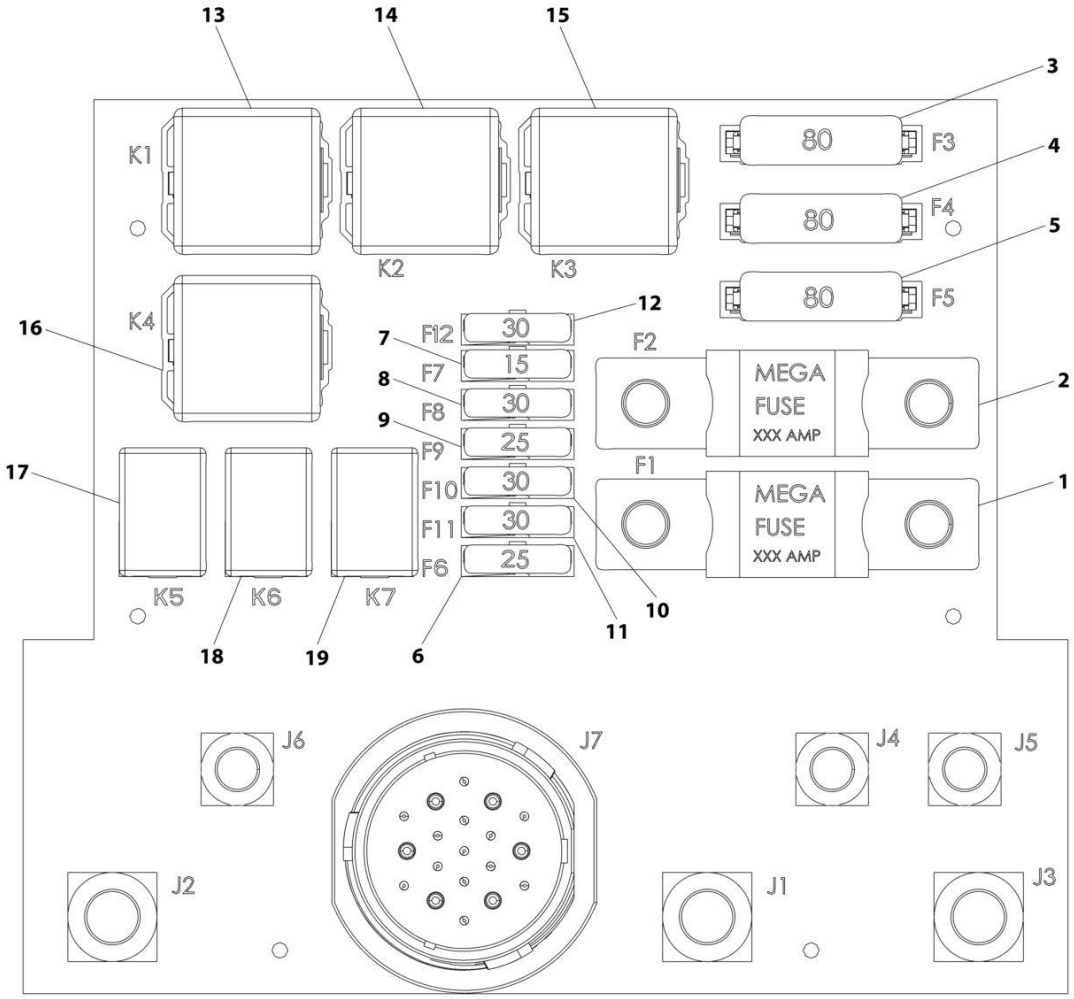


FIGURE 10-74. POWER DISTRIBUTION ELECTRICAL BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001164402	Ref	Power Distribution Electrical Box	G
1	1001095336	1	Fuse, 150AMP	
2	70026296	1	Fuse, 200AMP	
3	70026297	1	Fuse, 80AMP	
4	70026297	1	Fuse, 80AMP	
5	70026297	1	Fuse, 80AMP	
6	8229247	1	Fuse, 25AMP	
7	8229244	1	Fuse, 15AMP	
8	8229245	1	Fuse, 30AMP	
9	8229247	1	Fuse, 25AMP	
10	8229245	1	Fuse, 30AMP	
11	8229245	1	Fuse, 30AMP	
12	8229245	1	Fuse, 30AMP	
13	70026294	1	Fuse, 70AMP	
14	70026294	1	Fuse, 70AMP	
15	70026294	1	Fuse, 70AMP	
16	70026294	1	Fuse, 70AMP	
17	70026295	1	Fuse, 35AMP	
18	70026295	1	Fuse, 35AMP	
19	70026295	1	Fuse, 35AMP	

FIGURE 10-75. PLATFORM HARNESS

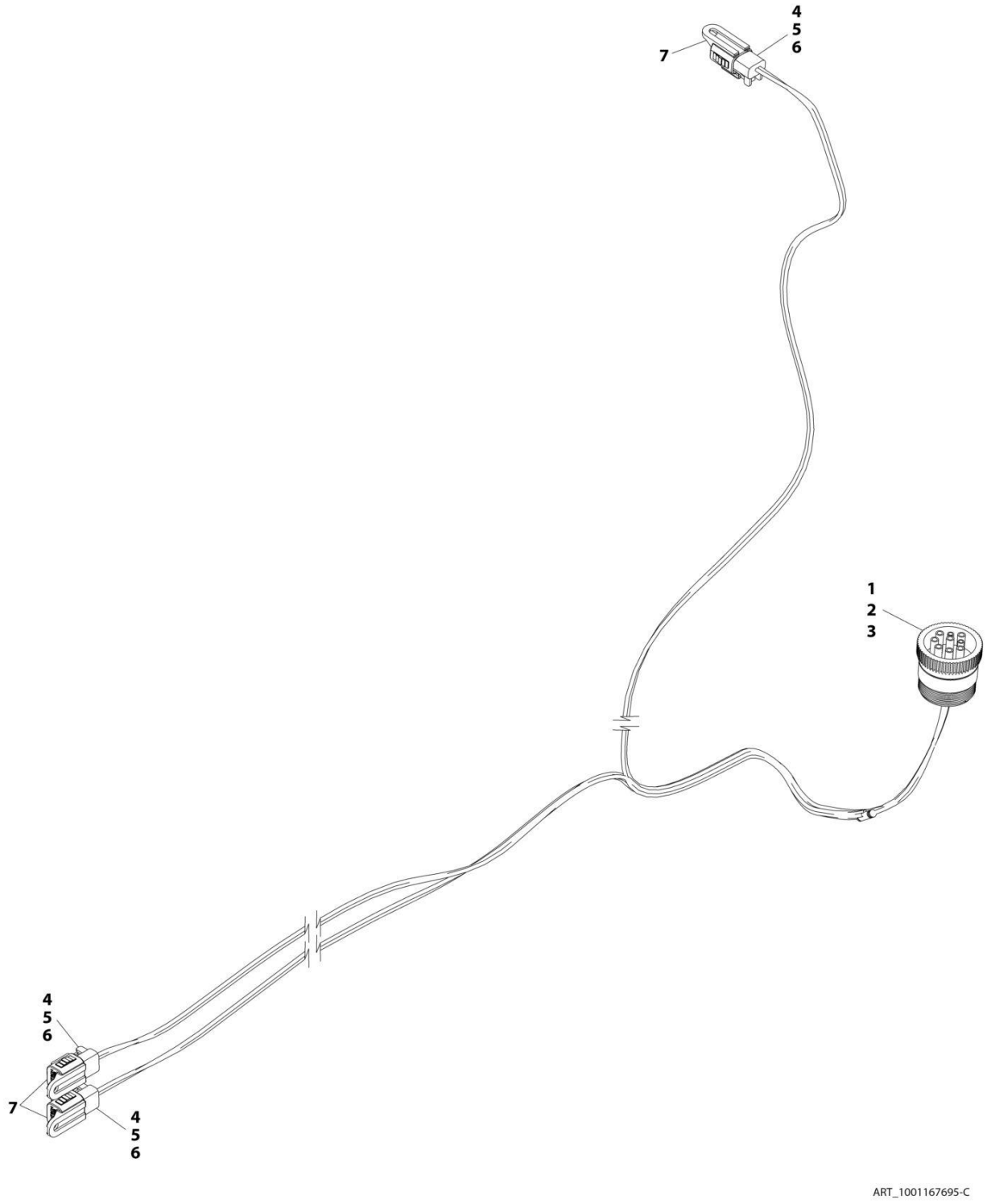


FIGURE 10-75. PLATFORM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167695	Ref	Platform Harness	C
1	1001112796	1	Connector	
2	4460466	5	Terminal	
3	4460465	4	Terminal	
4	4460891	3	Connector, (includes rear seal)	
5	80604018	2	Lock, Connector	
6	4460465	2	Terminal	
7	1001155806	3	Cap, Dust	

FIGURE 10-76. REVERSE CAMERA INSTALLATION

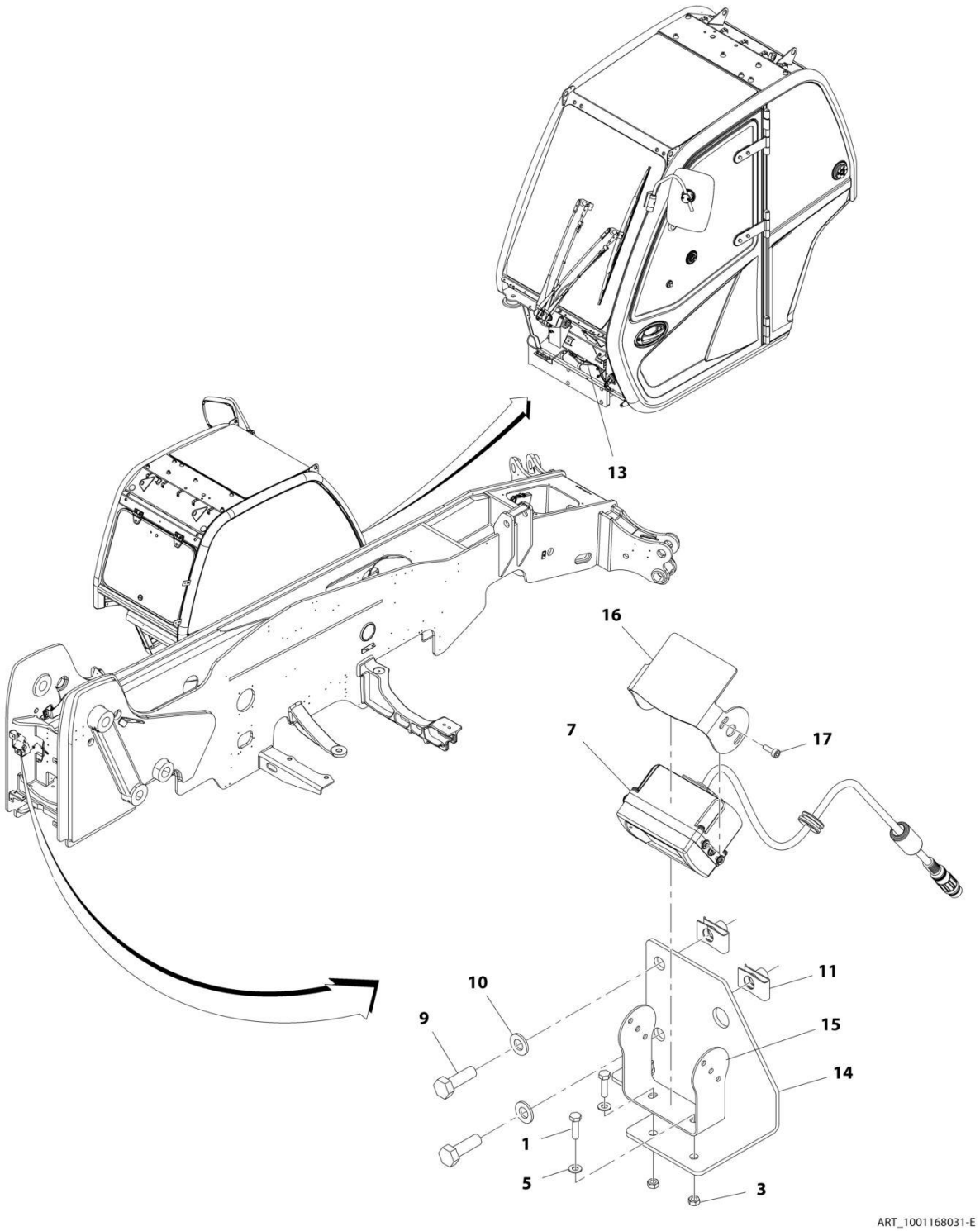


FIGURE 10-76. REVERSE CAMERA INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001168031	Ref	Reverse Camera Installation	E
1	0700408	2	Bolt, M4X16	
3	3290401	2	Nut, M4X0.7	
5	4811400	2	Washer, M4	
7	1001167017	1	Camera	
9	0760812	3	Bolt, M8X25	
10	4811900	3	Washer, M8	
11	8310686	3	Nut, Retainer M8X12.5	
13	1001171962	1	Cable, Reverse Camera	
14	1001202620	1	Bracket, Reverse Camera Mount	
15	1001202621	1	Bracket, Reverse Camera Mount	
16	1001202622	1	Bracket, Reverse Sun Shield	
17	4031205	4	Bolt, M3X10	

FIGURE 10-77. REVERSE SENSOR INSTALLATION

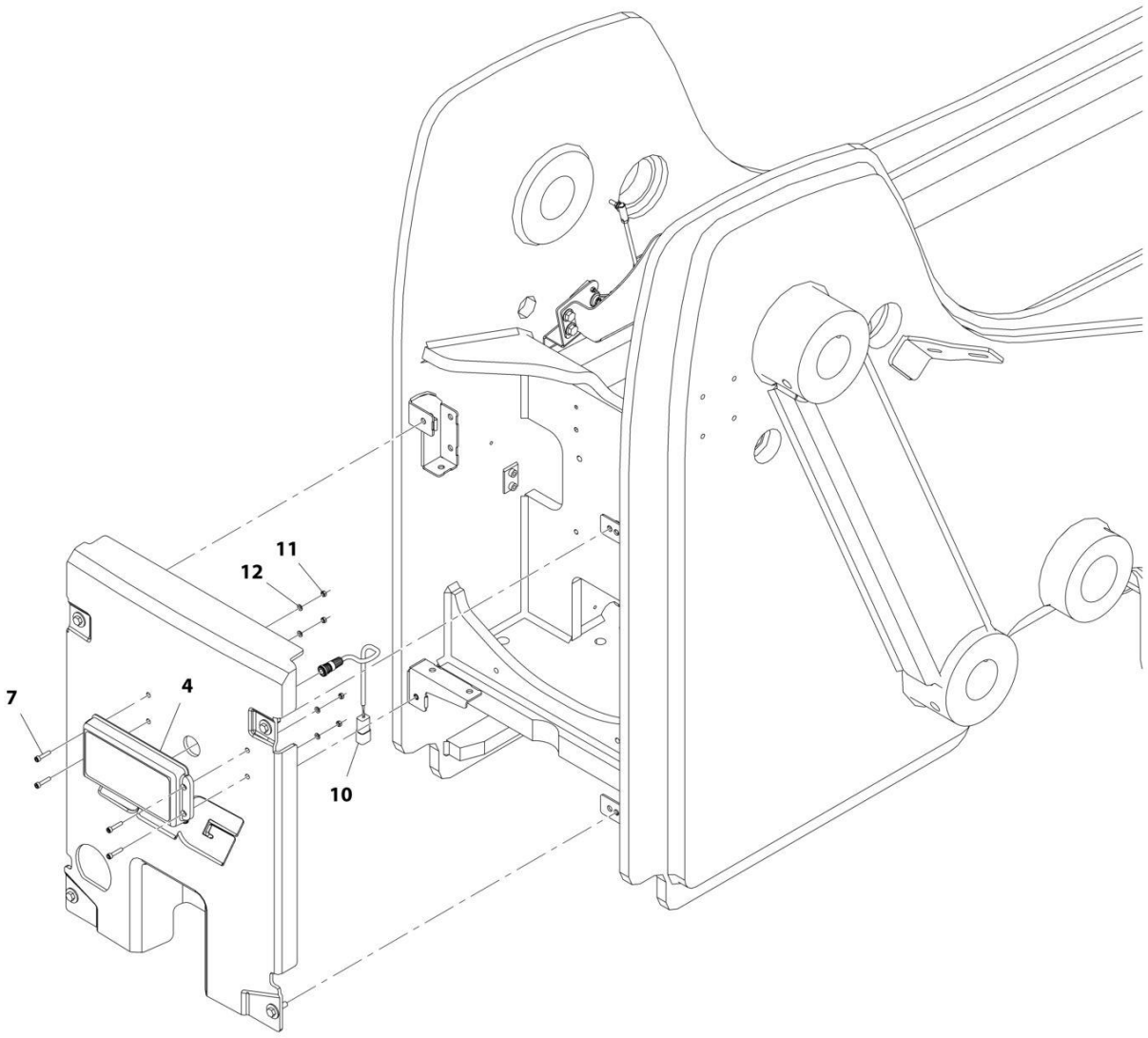


FIGURE 10-77. REVERSE SENSOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172536	Ref	Reverse Sensor Installation	H
4	1001189997	1	Sensor, Reverse	
7	5271609	4	Screw, M5X25	
10	1001175776	1	Harness, Reverse Sensor (See Separate Breakdown in this Section)	
11	3290501	4	Nut, M5X0.8	
12	4811600	4	Washer, M5	

FIGURE 10-78. ROAD LIGHTS INSTALLATION (NO OUTRIGGERS) (Prior to SN 0160079247)

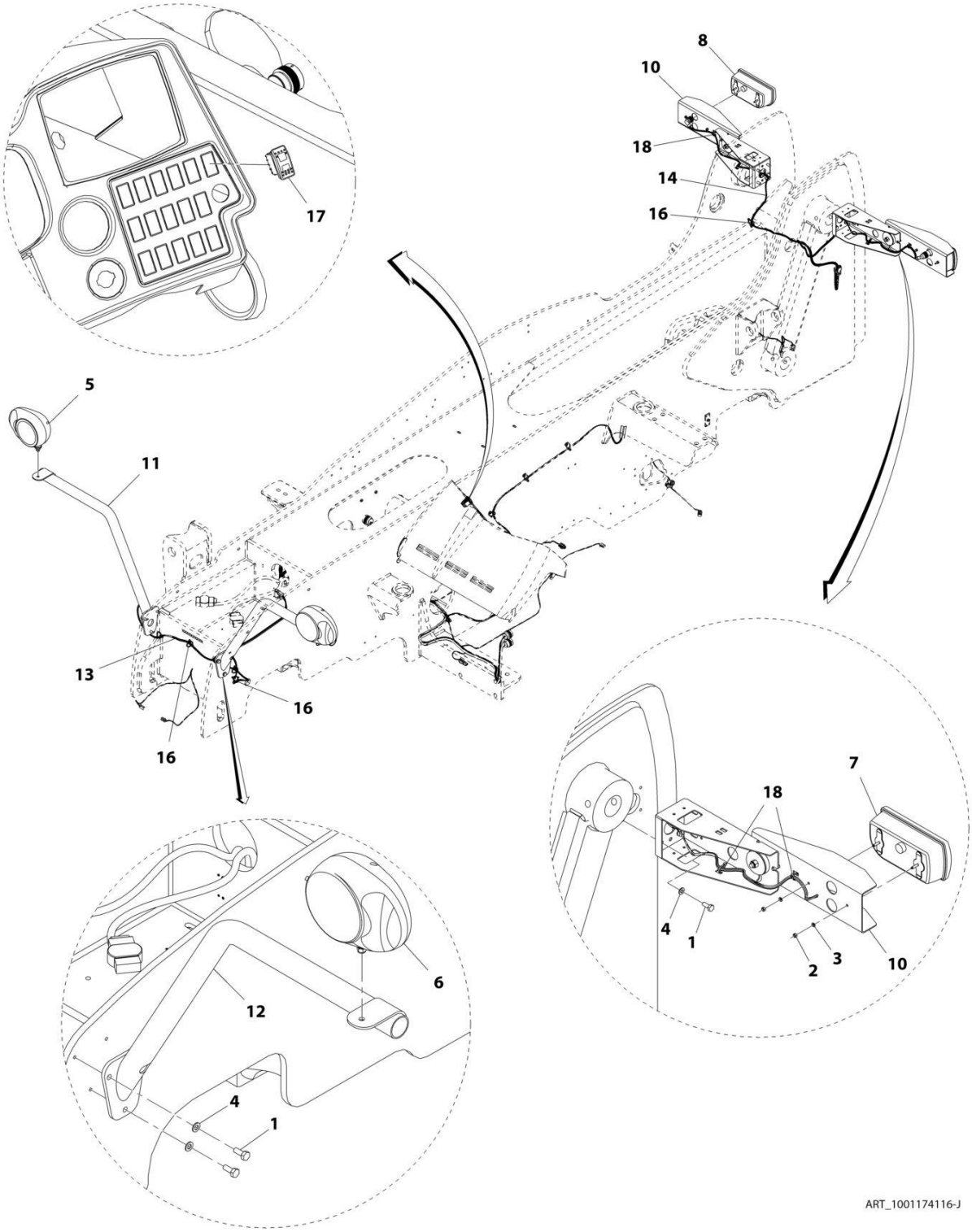


FIGURE 10-78. ROAD LIGHTS INSTALLATION (NO OUTRIGGERS) (Prior to SN 0160079247)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174116	Ref	Road Lights Installation (No Outriggers)	J
1	0761012	14	Bolt, M10X25	
2	3290607	4	Nut, M6X1	
3	4811700	4	Washer, M6	
4	4812000	14	Washer, M10	
5	2920208	1	Light, Driving RH	
6	2920207	1	Light, Driving LH	
7	1001091715	1	Lamp, Rear LH	
8	1001091716	1	Lamp, Rear RH	
10	1001183112	2	Bracket	
11	1001174120	1	Bracket	
12	1001174122	1	Bracket	
13	1001165360	1	Harness, Front Frame Headlight (See FRONT FRAME HEADLIGHT HARNESS for Breakdown)	
14	1001173092	1	Harness, HBP Tail Lights (See HBP TAIL LIGHTS HARNESS for Breakdown)	
16	1001146588	5	Strap, Cable	
17	1001159734	1	Switch, Hazard	
18	1001008559	4	Strap, Cable	

FIGURE 10-79. ROAD LIGHTS INSTALLATION (NO OUTRIGGERS) (SN 0160079247 to Present)

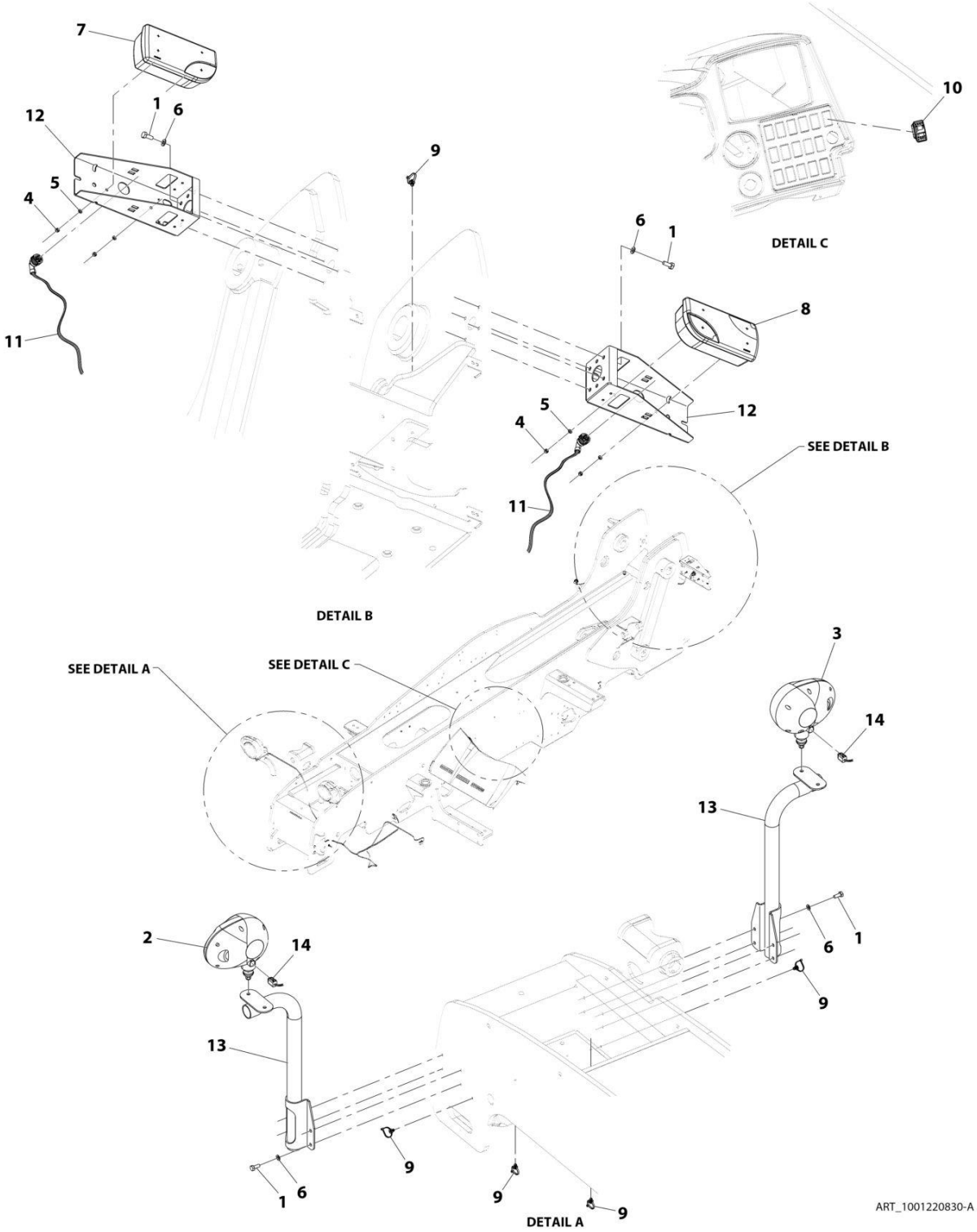


FIGURE 10-79. ROAD LIGHTS INSTALLATION (NO OUTRIGGERS) (SN 0160079247 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001220830	Ref	Road Lights Installation	A
1	0761010	16	Bolt, M10X20	
2	2920207	1	Driving Light, LH	
2	7029969	1	Bulb, 4W	
2	7029970	1	Bulb, 55W	
2	7029971	1	Bulb, 21W	
3	2920208	1	Driving Light, RH	
3	7029969	1	Bulb, 4W	
3	7029970	1	Bulb, 55W	
3	7029971	1	Bulb, 21W	
4	3290607	4	Nut, M6X1	
5	4811700	4	Washer, M6	
6	4812000	16	Washer, M10	
7	1001091715	1	Lamp, Rear LH	
7	70021341	1	Bulb, 5W	
7	70021340	1	Bulb, 21W	
7	7029971	1	Bulb, 21W	
8	1001091716	1	Lamp, Rear RH	
8	70021341	1	Bulb, 5W	
8	70021340	1	Bulb, 21W	
8	7029971	1	Bulb, 21W	
9	1001146588	5	Strap, Tie	
10	1001159734	1	Switch, Hazard	
11	1001173092	1	Harness, HBP Tail Lights (See Separate Breakdown in this Section)	
12	1001196100	2	Bracket	
13	1001220817	2	Bracket	
14	1001165360	1	Harness, Front Frame Headlight (See Separate Breakdown in this Section)	

FIGURE 10-80. ROAD LIGHTS INSTALLATION (OUTRIGGERS) (Prior to SN 0160079247)

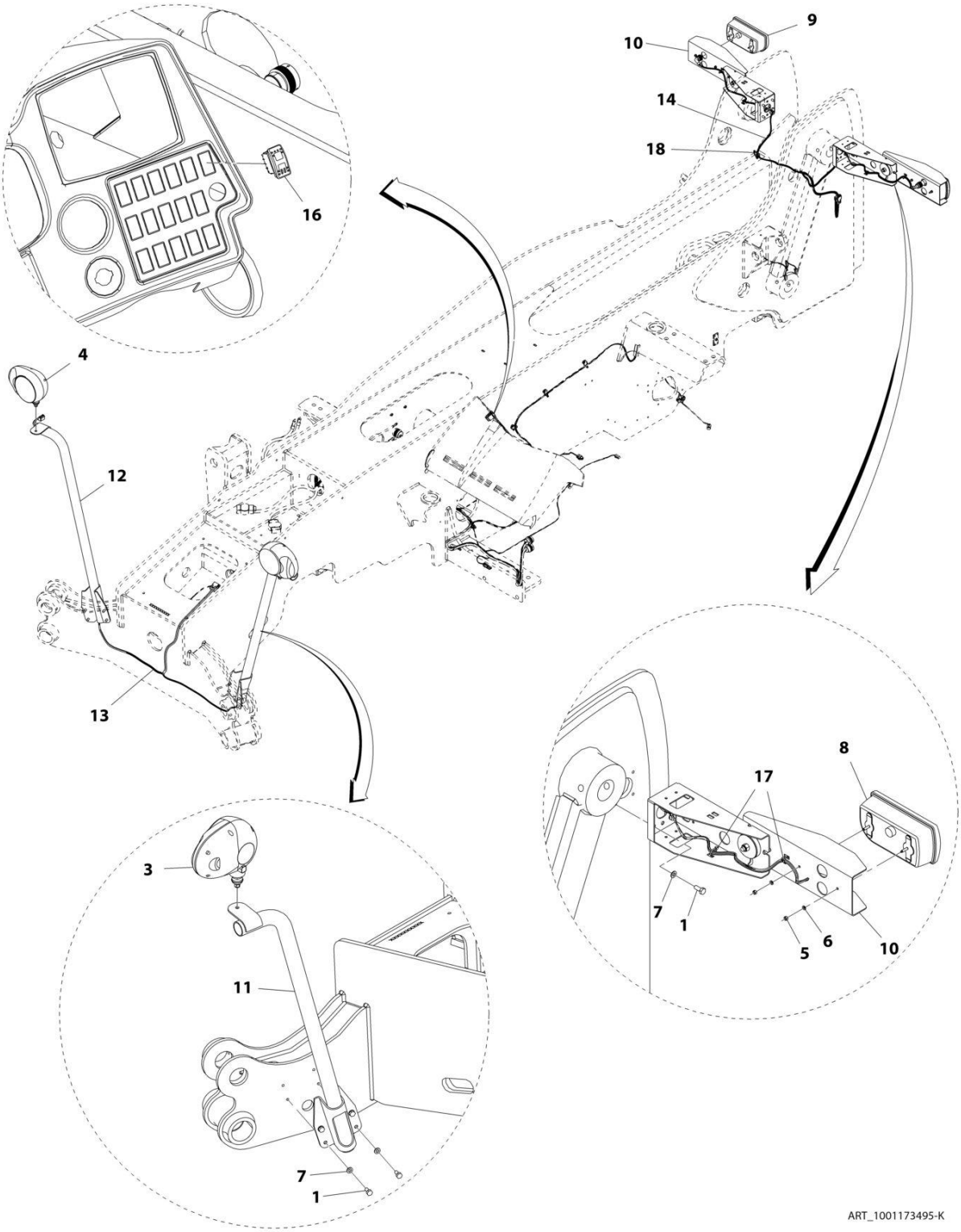


FIGURE 10-80. ROAD LIGHTS INSTALLATION (OUTRIGGERS) (Prior to SN 0160079247)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173495	Ref	Road Lights Installation (Outriggers)	K
1	0761010	16	Bolt, M10X20	
3	2920207	1	Driving Light, LH	
4	2920208	1	Driving Light, RH	
5	3290607	4	Nut, M6X1	
6	4811700	4	Washer, M6	
7	4812000	16	Washer, M10	
8	1001091715	1	Lamp, Rear LH	
9	1001091716	1	Lamp, Rear RH	
10	1001183112	2	Bracket	
11	1001188556	1	Bracket	
12	1001188555	1	Bracket	
13	1001165360	1	Harness, Front Frame Headlight (See FRONT FRAME HEADLIGHT HARNESS for Breakdown)	
14	1001173092	1	Harness, HBP Tail Lights (See HBP TAIL LIGHTS HARNESS for Breakdown)	
16	1001159734	1	Switch, Hazard	
17	1001008559	4	Strap, Cable	
18	1001146588	1	Strap, Cable	

FIGURE 10-81. ROAD LIGHTS INSTALLATION (OUTRIGGERS) (SN 0160079247 to Present)

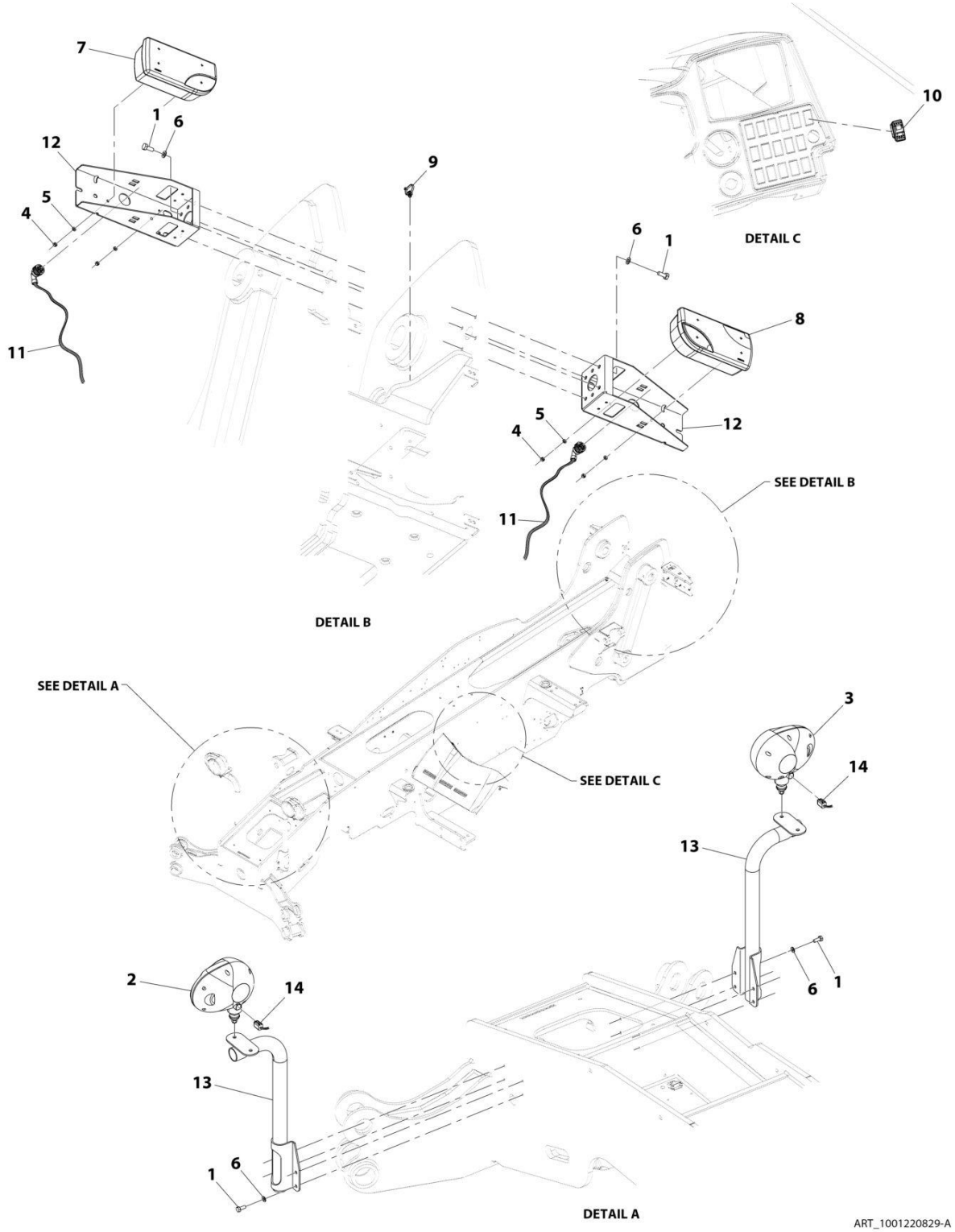


FIGURE 10-81. ROAD LIGHTS INSTALLATION (OUTRIGGERS) (SN 0160079247 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001220829	Ref	Road Lights Installation	A
1	0761010	16	Bolt, M10X20	
2	2920207	1	Driving Light, LH	
3	2920208	1	Driving Light, RH	
4	3290607	4	Nut, M6X1	
5	4811700	4	Washer, M6	
6	4812000	16	Washer, M10	
7	1001091715	1	Lamp, Rear LH	
8	1001091716	1	Lamp, Rear RH	
9	1001146588	1	Strap, Cable	
10	1001159734	1	Switch, Hazard	
11	1001173092	1	Harness, HBP Tail Lights (See Separate Breakdown in Electrical Section)	
12	1001196100	2	Bracket	
13	1001220817	2	Bracket	
14	1001165360	1	Harness, Front Frame Headlight (See Separate Breakdown in Electrical Section)	

FIGURE 10-82. RIDE CONTROL CB VALVE HARNESS INSTALLATION

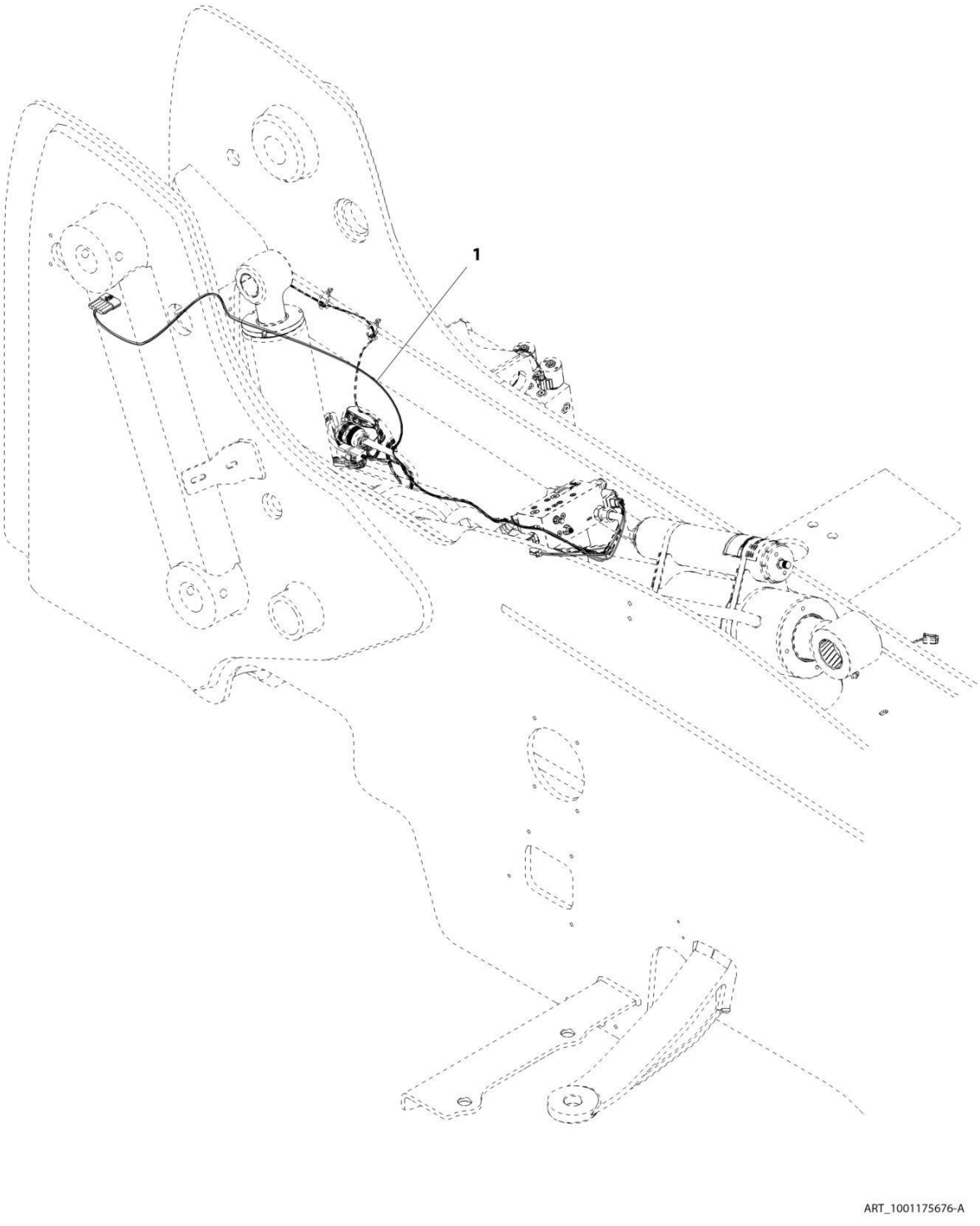


FIGURE 10-82. RIDE CONTROL CB VALVE HARNESS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175676	Ref	Ride Control CB Valve Harness Installation (Lift)	A
1	1001173527	1	Harness, Ride Control CB Valve (Lift) (See Separate Breakdown in this Section)	

FIGURE 10-83. RIDE CONTROL CB VALVE HARNESS (LIFT)

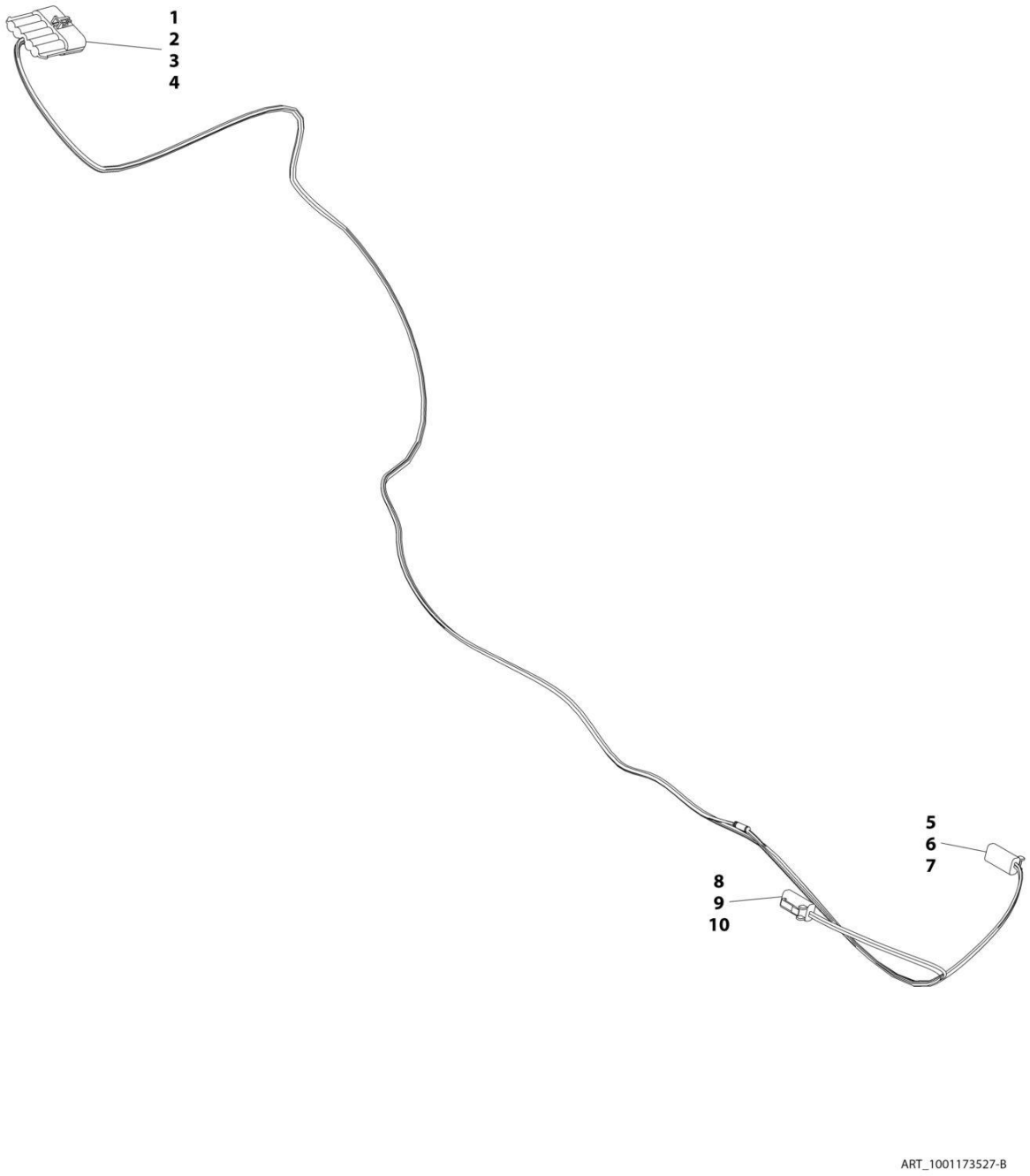


FIGURE 10-83. RIDE CONTROL CB VALVE HARNESS (LIFT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173527	Ref	Ride Control CB Valve Harness	B
1	1001121727	1	Connector	
2	1001166727	2	Plug	
3	1001116745	2	Terminal	
4	1001116729	1	Terminal	
5	4460891	1	Connector	
6	80604018	1	Lock, Secondary	
7	4460465	2	Terminal	
8	4460891	1	Connector	
9	80604018	1	Lock, Secondary	
10	4460465	2	Terminal	

FIGURE 10-84. REAR FRAME HARNESS

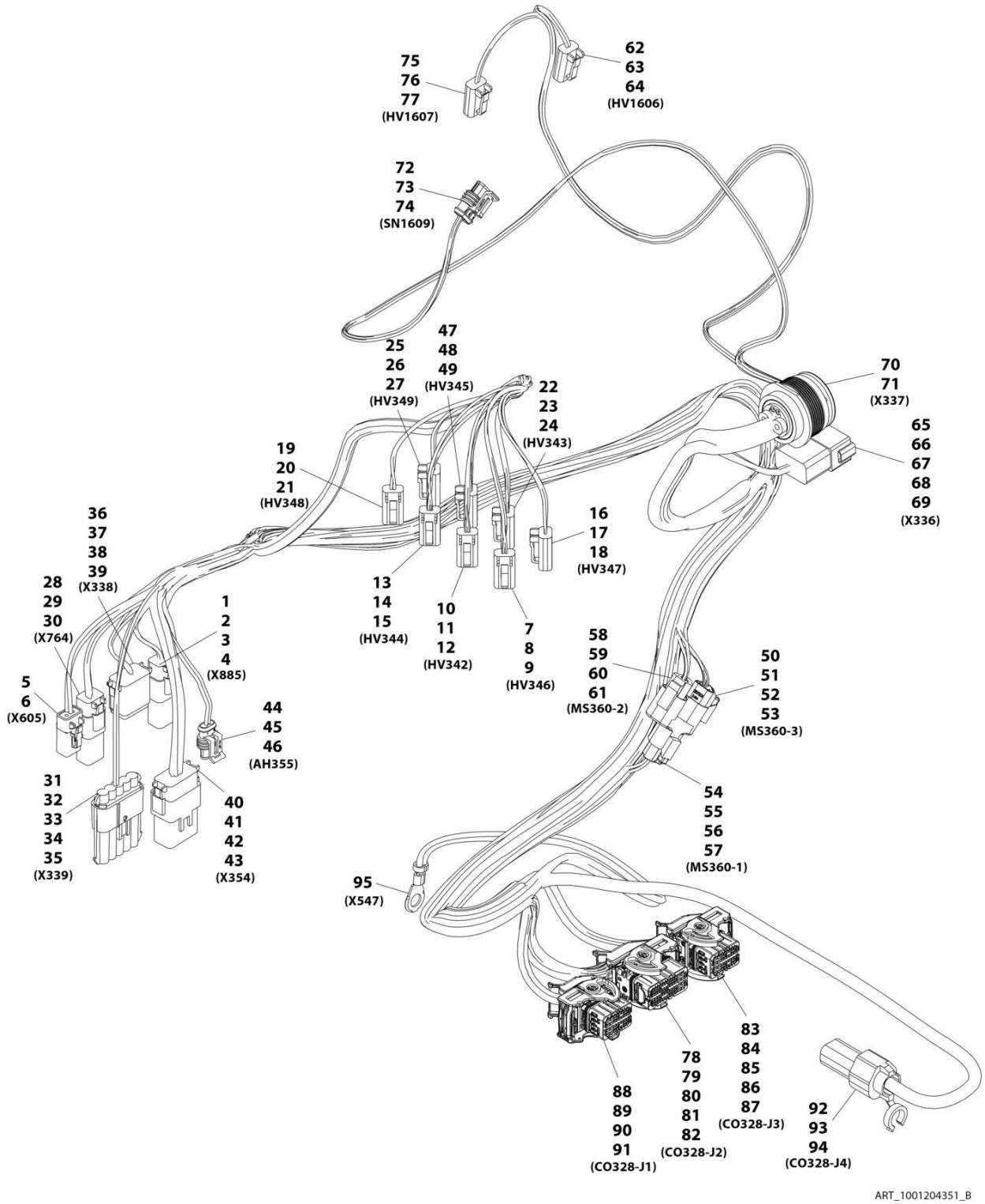


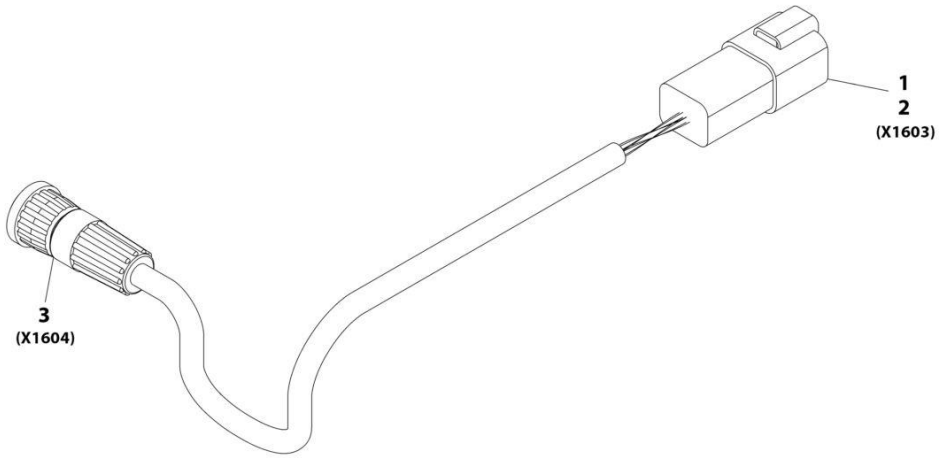
FIGURE 10-84. REAR FRAME HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001204351	Ref	Rear Frame Harness	B
1	4460884	1	Connector	
2	80604021	1	Lock, Connector	
2	4460465	2	Terminal	
3	4460466	2	Plug	
5	4461018	1	Connector	
6	4460509	2	Terminal	
7	4460891	1	Connector	
8	80604018	1	Lock, Connector	
9	4460465	2	Terminal	
10	4460891	1	Connector	
11	80604018	1	Connector	
12	4460465	2	Terminal	
13	4460891	1	Connector	
14	80604018	1	Lock, Connector	
15	4460465	2	Terminal	
16	4460891	1	Connector	
17	80604018	1	Lock, Connector	
18	4460465	2	Terminal	
19	4460891	1	Connector	
20	80604018	1	Lock, Connector	
21	4460465	2	Terminal	
22	4460891	1	Connector	
23	80604018	1	Lock, Connector	
24	4460465	2	Terminal	
25	4460891	1	Connector	
26	80604018	1	Lock, Connector	
27	4460465	2	Terminal	
28	4460884	1	Connector	
29	80604021	1	Lock, Connector	
30	4460465	4	Terminal	
31	1001121726	1	Connector	
32	1001116728	3	Terminal	
33	1001175265	2	Seal	
34	4460458	1	Seal	
35	1001116727	2	Plug	
36	4460930	1	Connector	
37	8220525	1	Lock, Connector	
38	4460465	2	Terminal	
39	4460466	6	Plug	
40	4460933	1	Connector	
41	80604016	1	Connector, Lock	
42	4460942	10	Terminal	
43	4460466	2	Plug	
44	4461118	1	Connector	
45	1001107854	2	Terminal	
46	1001116763	2	Seal	
47	4460891	1	Connector	
48	80604018	1	Lock, Connector	
49	4460465	2	Terminal	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	1001116812	1	Connector	
51	91554019	1	Lock, Connector	
52	4460944	2	Terminal	
53	4460466	1	Plug	
54	1001116812	1	Connector	
55	91554019	1	Lock, Connector	
56	4460944	2	Terminal	
57	4460466	1	Plug	
58	4460539	1	Connector	
59	1001146021	1	Seal	
60	4460944	2	Terminal	
61	4460466	1	Plug	
62	4460891	1	Connector	
63	80604018	1	Lock, Connector	
64	4460465	2	Terminal	
65	4460970	1	Connector	
66	80363179	1	Lock, Connector	
67	4460464	4	Terminal	
68	4460941	1	Terminal	
69	4460466	7	Plug	
70	1001165311	1	Connector	
71	91013191	2	Terminal	
72	4461262	1	Connector	
73	1001107854	3	Terminal	
74	1001104498	3	Seal	
75	4460891	1	Connector	
76	80604018	1	Lock, Connector	
77	4460465	2	Terminal	
78	1001161963	1	Connector	
79	1001161097	21	Terminal	
80	1001161099	5	Terminal	
81	1001161100	19	Plug	
82	1001161101	3	Plug	
83	1001160500	1	Connector	
84	1001161097	2	Terminal	
85	1001161099	7	Terminal	
86	1001161100	22	Plug	
87	1001161101	1	Plug	
88	1001161957	1	Connector	
89	1001161097	7	Terminal	
90	1001161100	17	Plug	
91	1001161101	8	Plug	
92	1001160509	1	Connector	
93	1001160510	1	Terminal	
94	1001175267	1	Seal	
95	1001187076	1	Ring, Terminal	

FIGURE 10-85. REVERSE SENSOR HARNESS



ART_1001175776-C

FIGURE 10-85. REVERSE SENSOR HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175776	Ref	Reverse Sensor Harness	C
1	4460932	1	Connector	
2	4460464	4	Terminal	
3	1001175733	1	Connector	

FIGURE 10-86. ROOF PIGTAIL HARNESS (Prior to SN 0160080898)

FIGURE 10-86. ROOF PIGTAIL HARNESS (Prior to SN 0160080898)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202132	Ref	Roof Pigtail Harness	A
1	1001201080	1	Connector	
2	4460942	6	Terminal	
3	4460466	8	Plug	
4	4460884	1	Connector	
5	4460942	4	Terminal	
6	80604021	1	Wedge Lock	
7	4460994	1	Connector	
8	1001118384	1	Terminal	

FIGURE 10-87. ROOF PIGTAIL HARNESS (SN 0160080898 to Present)

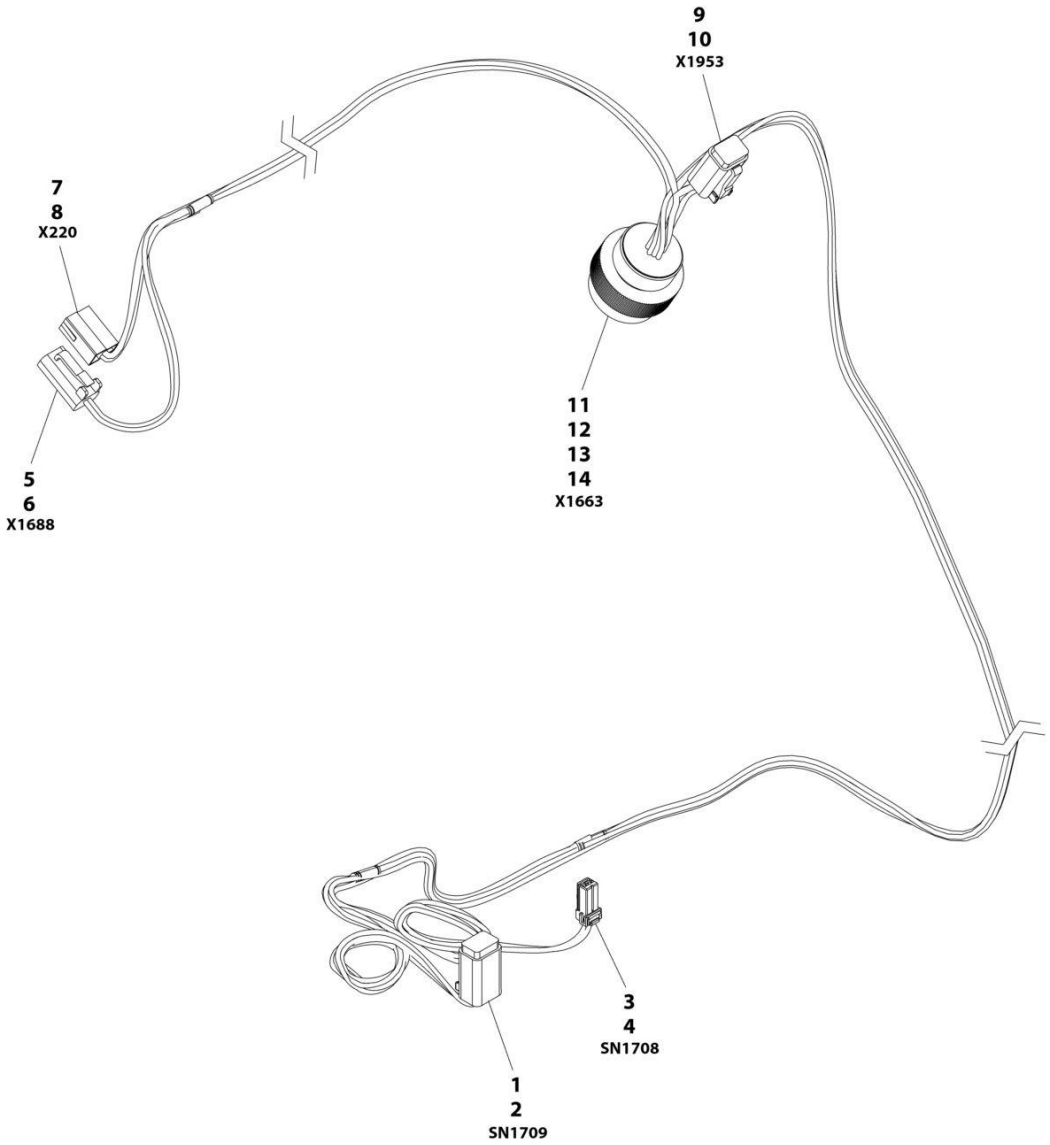


FIGURE 10-87. ROOF PIGTAIL HARNESS (SN 0160080898 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001265200	Ref	Roof Pigtail Harness	A
1	4460884	1	Connector	
2	4460465	4	Terminal	
3	1001264844	1	Connector	
4	1001264861	2	Terminal	
5	4460891	1	Connector	
6	4460465	2	Terminal	
7	4460994	1	Connector	
8	1001118384	2	Terminal	
9	4460884	1	Connector	
10	4460942	4	Terminal	
11	4461015	1	Connector	
12	4460942	6	Terminal	
13	4460465	5	Terminal	
14	4460466	3	Plug	

FIGURE 10-88. SWITCH LIGHT INSTALLATION

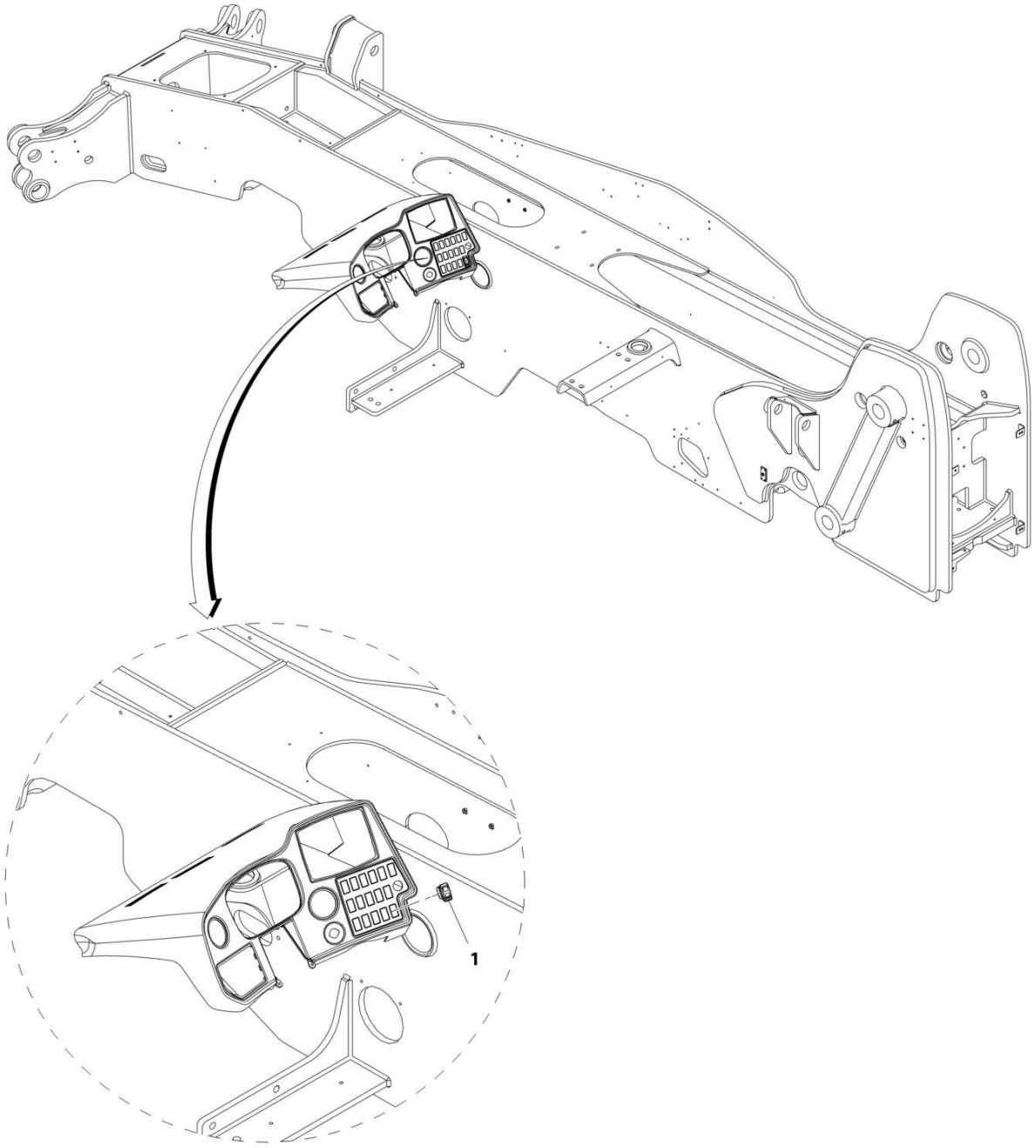


FIGURE 10-88. SWITCH LIGHT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001197282	Ref	Switch Light Installation	A
1	1001163639	1	Switch, Driving Lights	

FIGURE 10-89. STANDARD ELECTRICAL BOARD ASSEMBLY

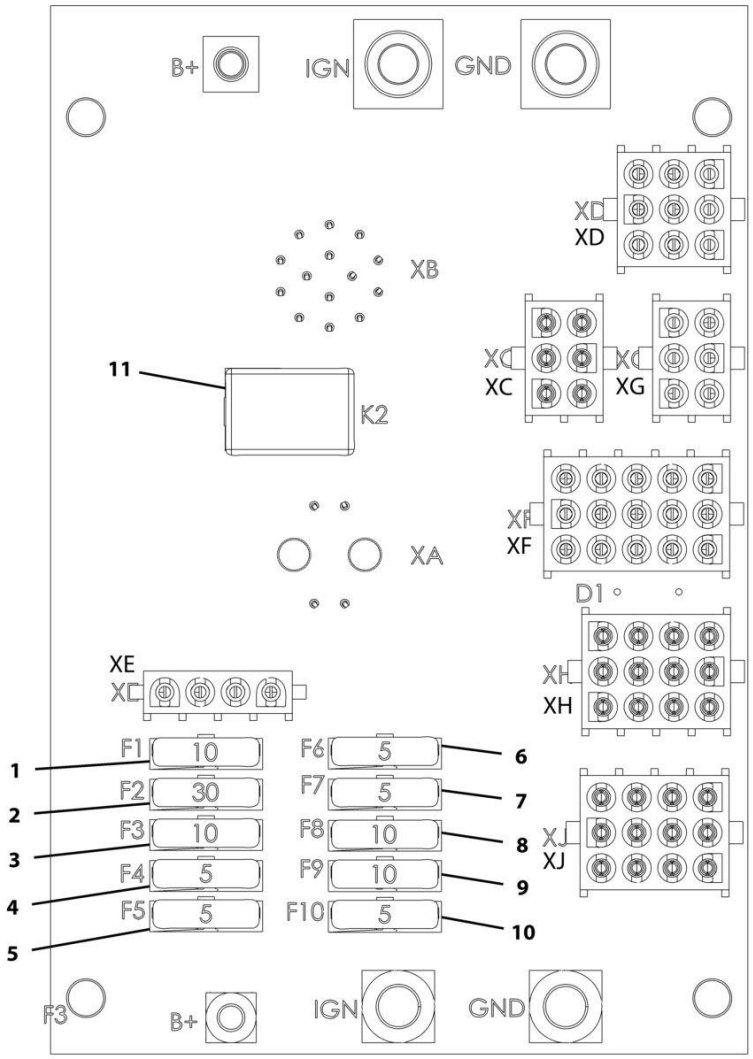


FIGURE 10-89. STANDARD ELECTRICAL BOARD ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001161769	Ref	Standard Electrical Board Assembly	C
1	80983191	1	Fuse, 10AMP	
2	8229245	1	Fuse, 30AMP	
3	80983191	1	Fuse, 10AMP	
4	8229242	1	Fuse, 5AMP	
5	8229242	1	Fuse, 5AMP	
6	8229242	1	Fuse, 5AMP	
7	8229242	1	Fuse, 5AMP	
8	80983191	1	Fuse, 10AMP	
9	80983191	1	Fuse, 10AMP	
10	8229242	1	Fuse, 5AMP	
11	70026292	1	Fuse, 35AMP	

FIGURE 10-90. TELEMATICS READY INSTALLATION

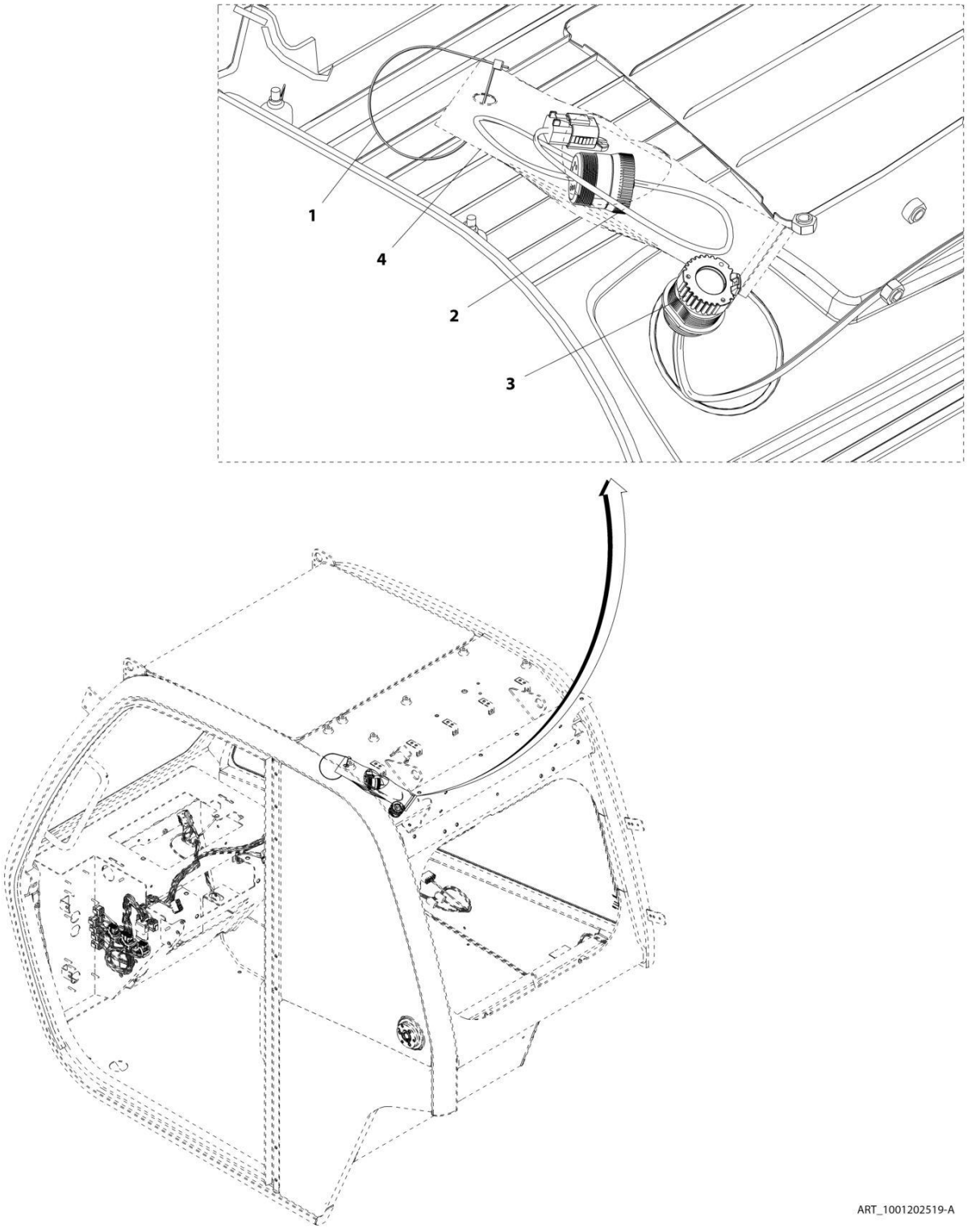


FIGURE 10-90. TELEMATICS READY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001202519	Ref	Telematics Ready Installation	A
1	8584003	1	Strap, Tie	
2	1001196289	1	Harness, Telematics Ready (See Separate Breakdown in ELECTRICAL Section)	
3	1001201162	1	Cap	
4	1001202617	1	Bag	

FIGURE 10-91. TBAP HARNESS

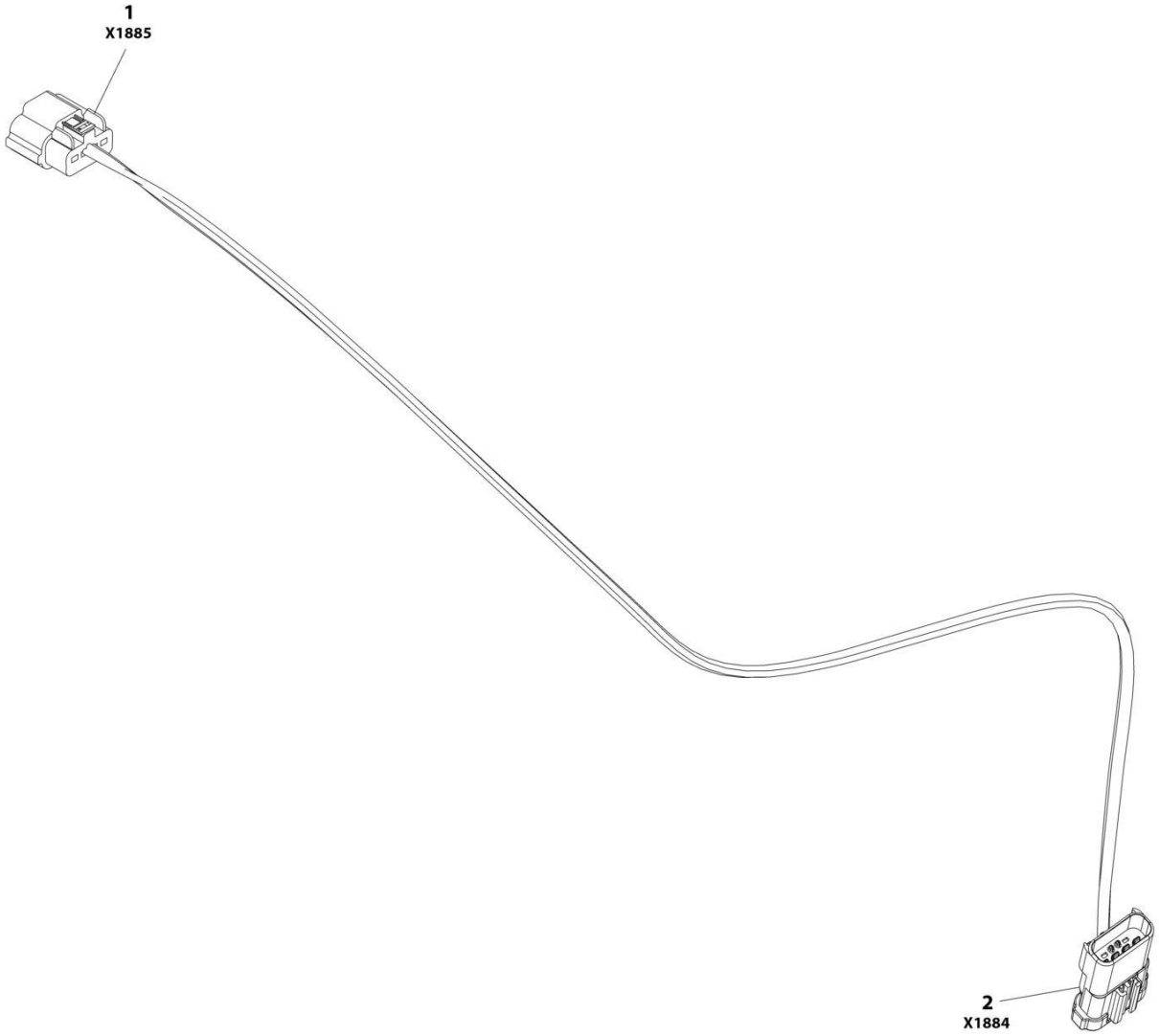


FIGURE 10-91. TBAP HARNESS

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

FIGURE 10-92. TAIL LIGHTS HARNESS

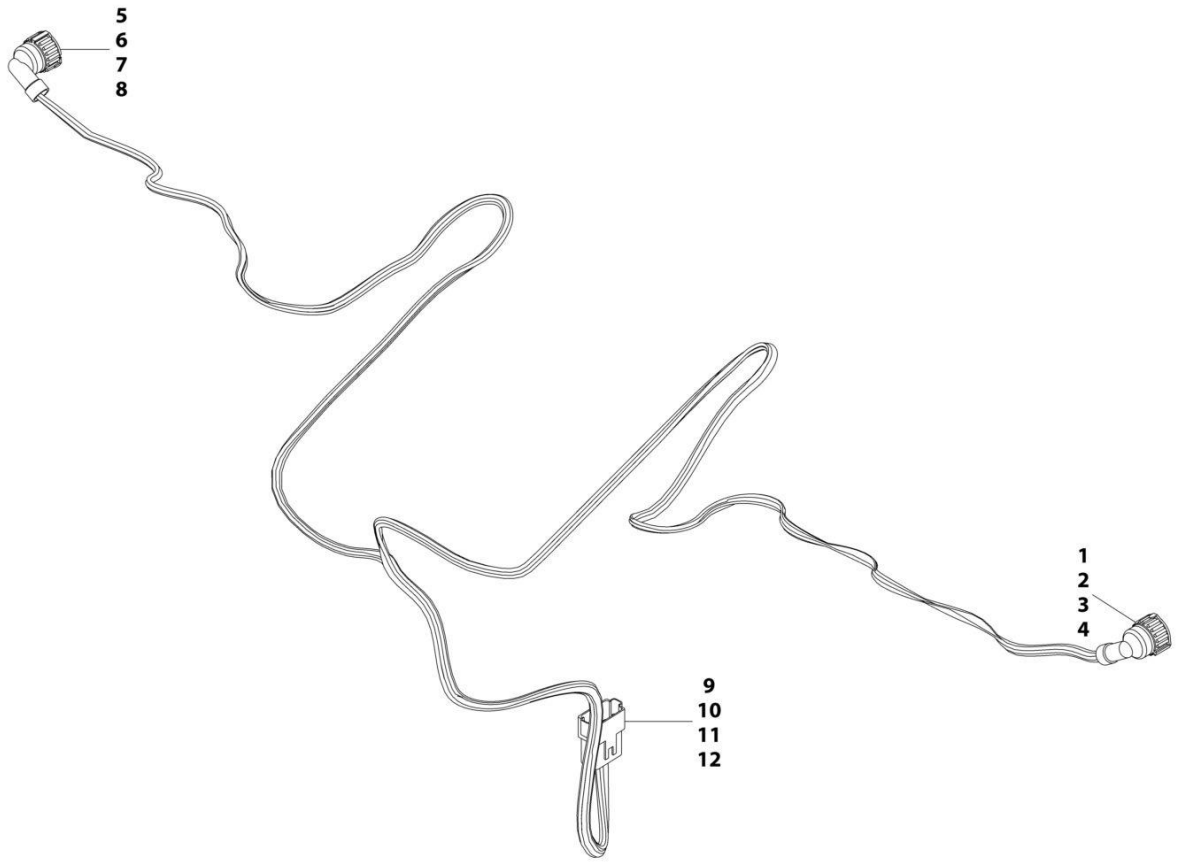


FIGURE 10-92. TAIL LIGHTS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173092	Ref	HBP Tail Lights Harness	D
1	1001116996	1	Connector	
2	1001118392	5	Terminal	
3	4461054	5	Seal	
4	1001116696	2	Plug	
5	1001116996	1	Connector	
6	1001118392	5	Terminal	
7	4461054	5	Seal	
8	1001116696	2	Plug	
9	4460970	1	Connector	
10	80363179	1	Lock, Connector	
11	4460941	10	Terminal	
12	4460466	2	Plug	

FIGURE 10-93. TELEMATICS READY HARNESS

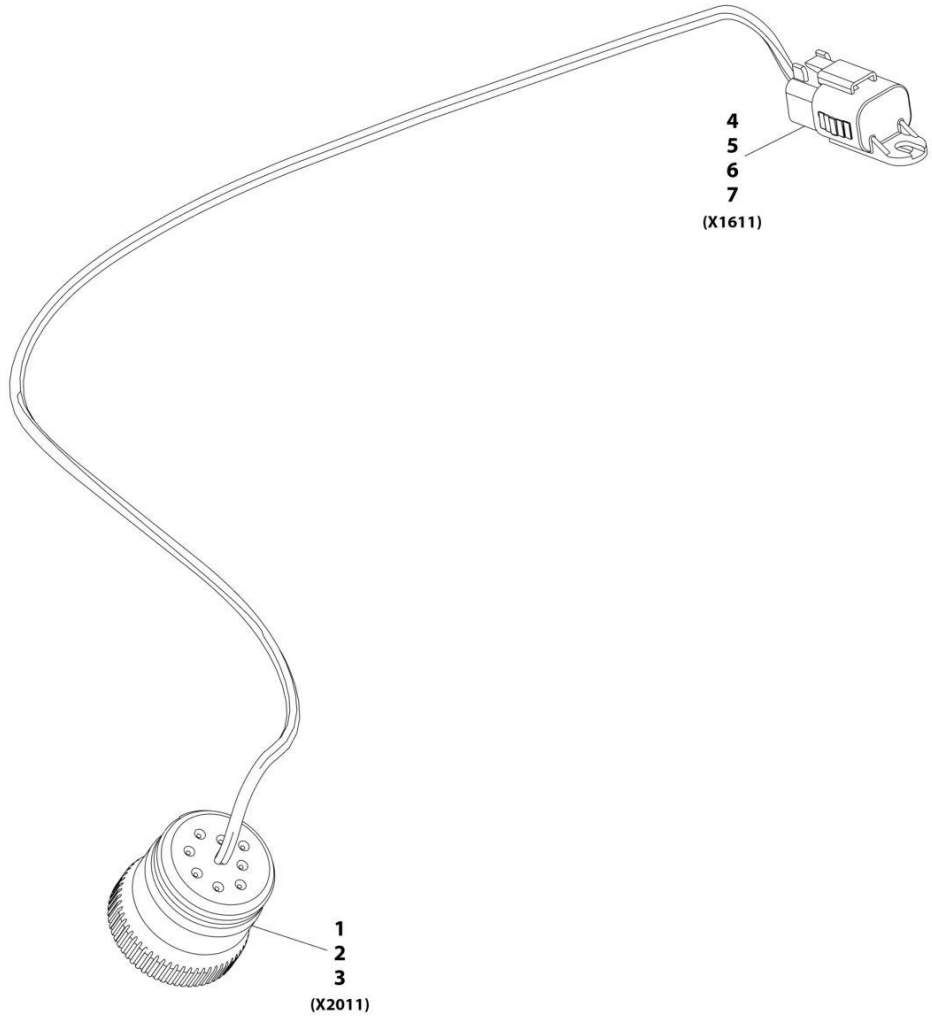


FIGURE 10-93. TELEMATICS READY HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196289	Ref	Telematics Ready Harness	A
1	1001112796	1	Connector	
2	4460465	3	Terminal	
3	4460466	6	Plug	
4	4460884	1	Connector	
5	80604021	1	Lock, Connector	
6	4460465	3	Terminal	
7	4460466	1	Terminal	

FIGURE 10-94. 4WARD TELEMATICS HARNESS

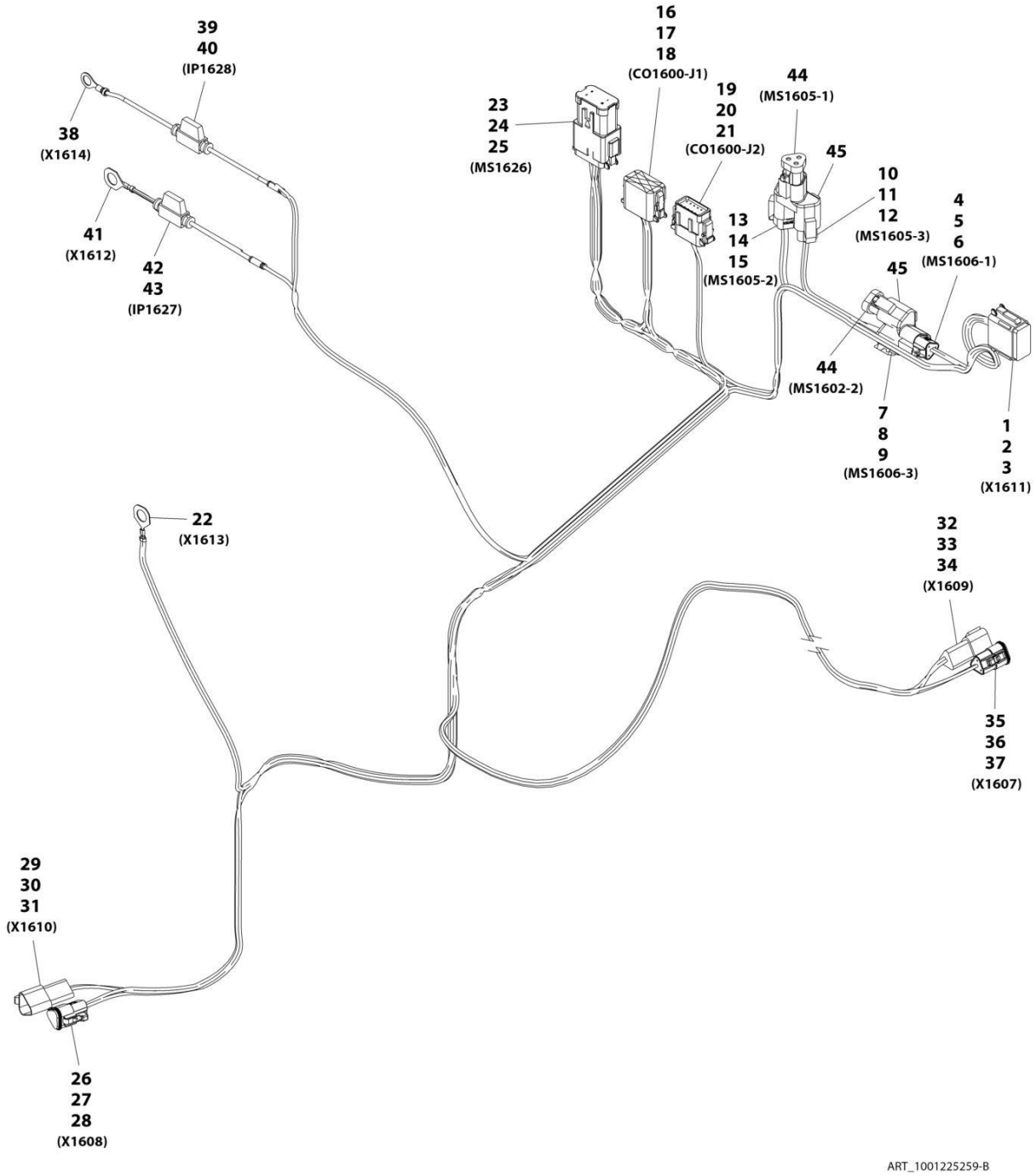


FIGURE 10-94. 4WARD TELEMATICS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225259	Ref	Telematic Harness	B
1	4460933	1	Connector	
2	4460465	5	Terminal	
3	4460466	7	Plug	
4	1001116812	1	Connector	
5	4460465	2	Terminal	
6	4460466	1	Plug	
7	4460539	1	Connector	
8	4460465	2	Terminal	
9	4460466	1	Plug	
10	4460539	1	Connector	
11	4460465	2	Terminal	
12	4460466	1	Plug	
13	1001116812	1	Connector	
14	4460465	2	Terminal	
15	4460466	1	Plug	
16	1001116774	1	Connector	
17	4460518	6	Plug	
18	1001126008	6	Terminal	
19	1001116808	1	Connector	
20	4460518	10	Plug	
21	1001126008	2	Terminal	
22	1001187081	1	Connector	
23	4460933	1	Connector	
24	1001200206	1	Connector, DT 12 Pin 4X3 Buss	
25	4460465	13	Terminal	
26	1001116812	1	Connector	
27	4460465	2	Terminal	
28	4460466	1	Plug	
29	1001144147	1	Connector	
30	4460464	2	Terminal	
31	4460466	1	Plug	
32	1001144147	1	Connector	
33	4460464	2	Terminal	
34	4460466	1	Plug	
35	1001116812	1	Connector	
36	4460465	2	Terminal	
37	4460466	1	Plug	
38	4460670	1	Connector	
39	2400060	1	Connector	
40	8229242	1	Terminal	
41	1001187078	1	Connector	
42	2400060	1	Connector	
43	8229242	1	Terminal	
44	1001116815	2	Connector, 3 Pin	
45	4460945	2	Terminal, 3 Way "T" Receptacle	

FIGURE 10-95. TELEMATICS CANBUS INSTALLATION (CLEARSKY 2)

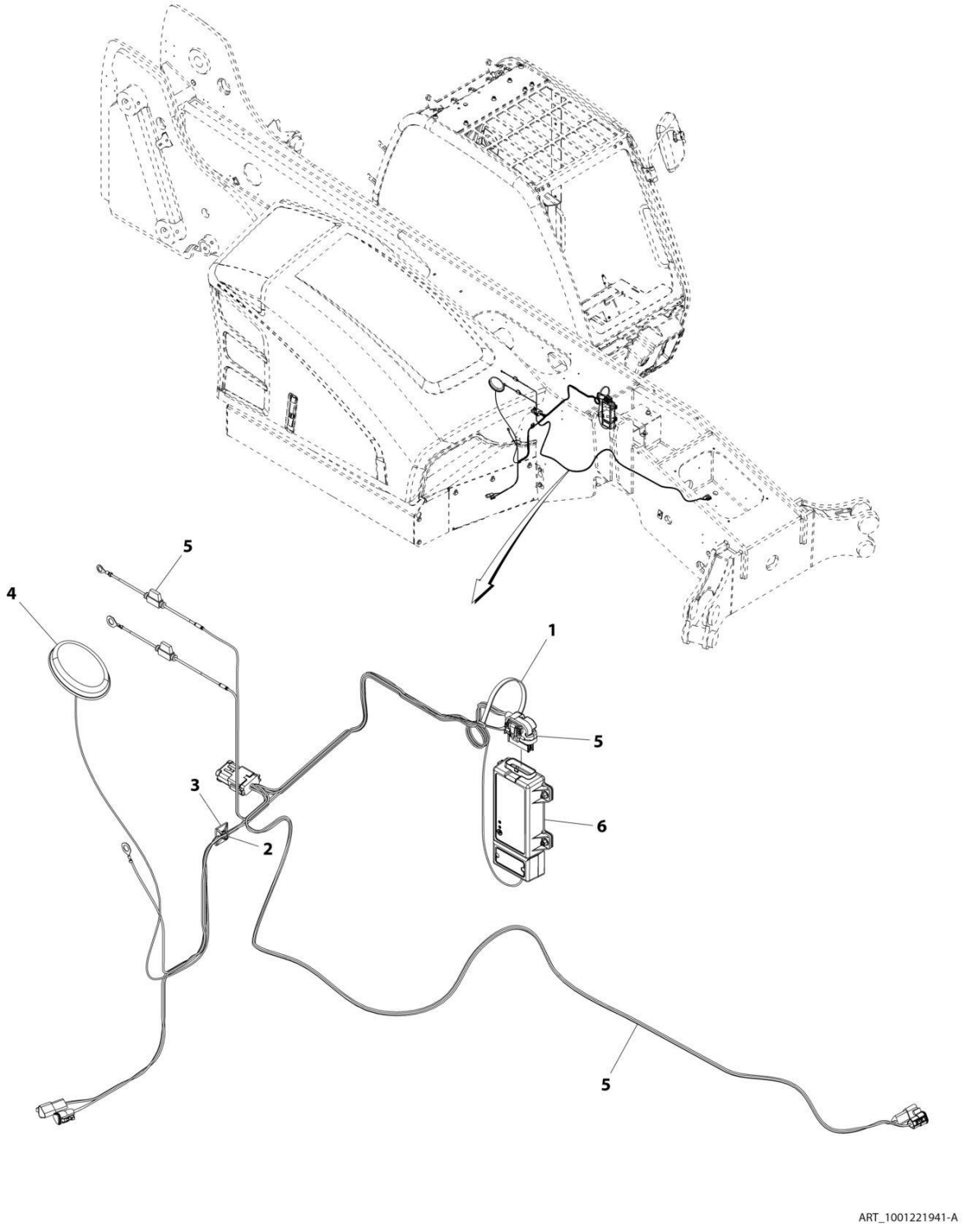


FIGURE 10-95. TELEMATICS CANBUS INSTALLATION (CLEARSKY 2)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221941	Ref	Telematics Canbus Installation (Clearsky 2)	A
1	1062255	AR	Tie, Strap	
2	4240032	AR	Tie, Strap	
3	4460234	AR	Tie, Strap	
4	1001226799	1	Antenna	
5	1001227297	1	Harness, 4ward Telematics (Clearsky 2) (See Separate Breakdown in this section)	
6	1001229955	1	Module	

FIGURE 10-96. WHITE NOISE BACKUP ALARM INSTALLATION

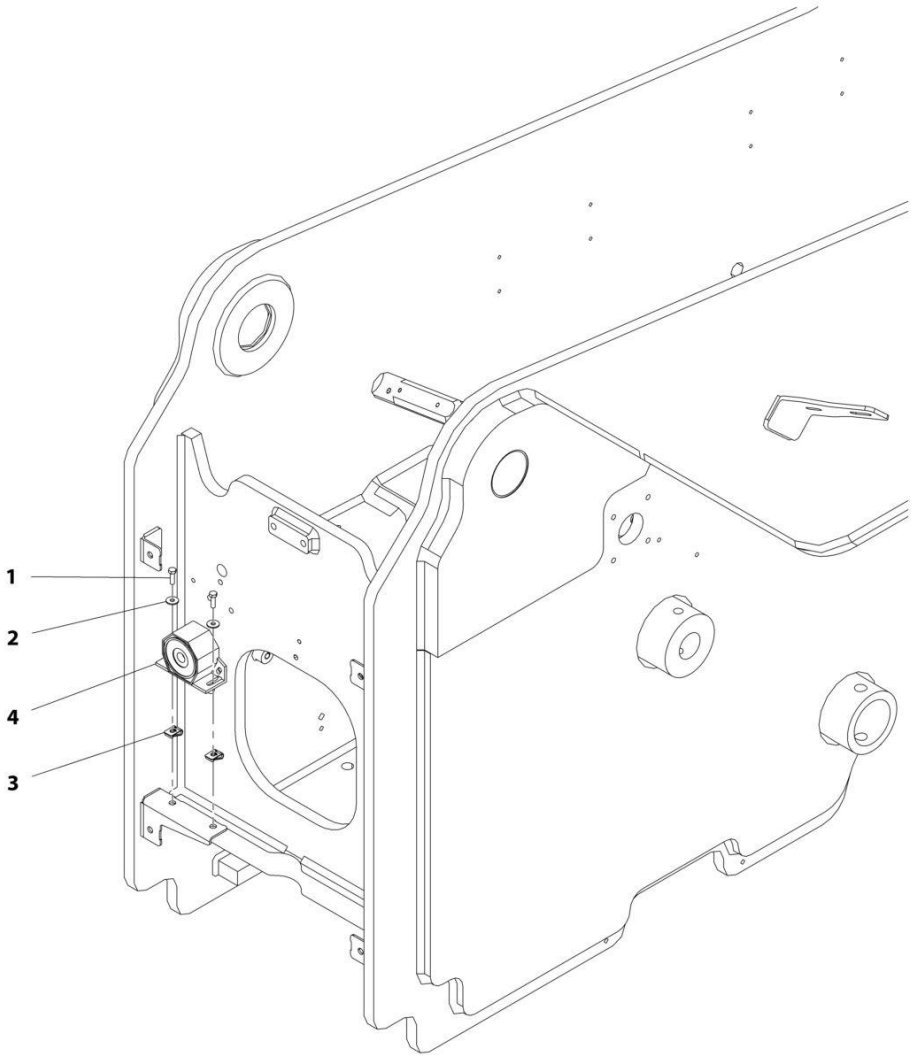


FIGURE 10-96. WHITE NOISE BACKUP ALARM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001192394	Ref	White Noise Backup Alarm Installation	D
1	0700610	2	Bolt, M6X20	
2	4811702	2	Washer, M6	
3	8305919	2	Nut, M6	
4	1001165827	1	Alarm, White Noise Backup	

FIGURE 10-97. CLEARSKY 2 (TELEMATICS) HARNESS

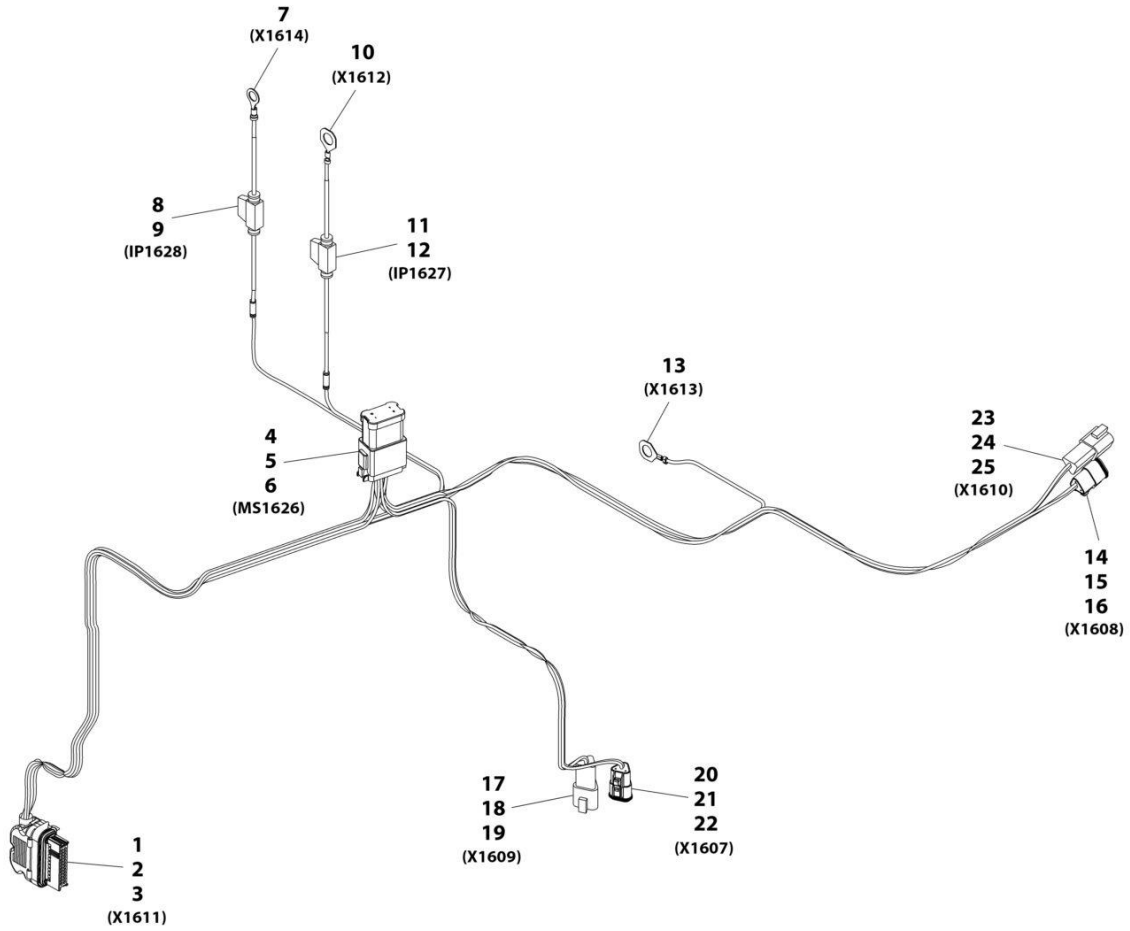


FIGURE 10-97. CLEARSKY 2 (TELEMATICS) HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227297	Ref	TELEMATIC 4WARD HARNESS (CLEARSKY 2)	C
1	1001226636	1	Connector	
2	1001226637	7	Terminal	
3	1001116731	17	Plug	
4	4460933	1	Connector	
5	4460465	12	Terminal	
6	1001200206	1	Connector, DT 12 Pin 4X3 Buss	
7	4460670	1	Connector	
8	2400060	1	Connector	
9	8229242	1	Fuse, 5amp	
10	1001187078	1	Connector	
11	2400060	1	Connector	
12	8229242	1	Fuse, 5amp	
13	1001187077	1	Connector	
14	1001116812	1	Connector	
15	4460465	2	Terminal	
16	4460466	1	Plug	
17	1001144147	1	Connector	
18	4460464	2	Terminal	
19	4460466	1	Plug	
20	1001116812	1	Connector	
21	4460465	2	Terminal	
22	4460466	1	Plug	
23	1001144147	1	Connector	
24	4460464	2	Terminal	
25	4460466	1	Plug	

SECTION 11 - DECALS

SECTION 11 - DECALS

FIGURE 11-1. BRAND AND MODEL DECAL INSTALLATION

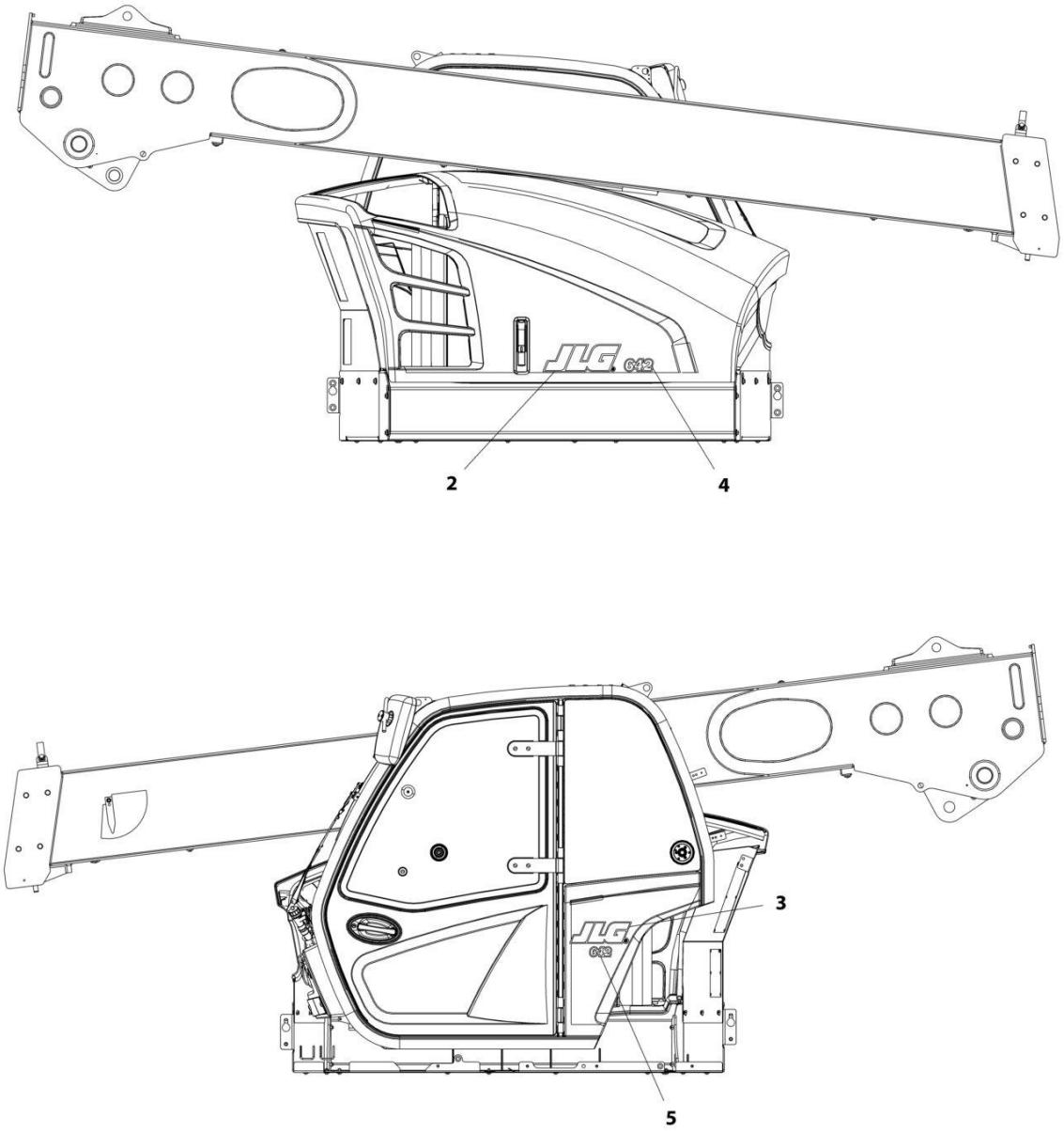
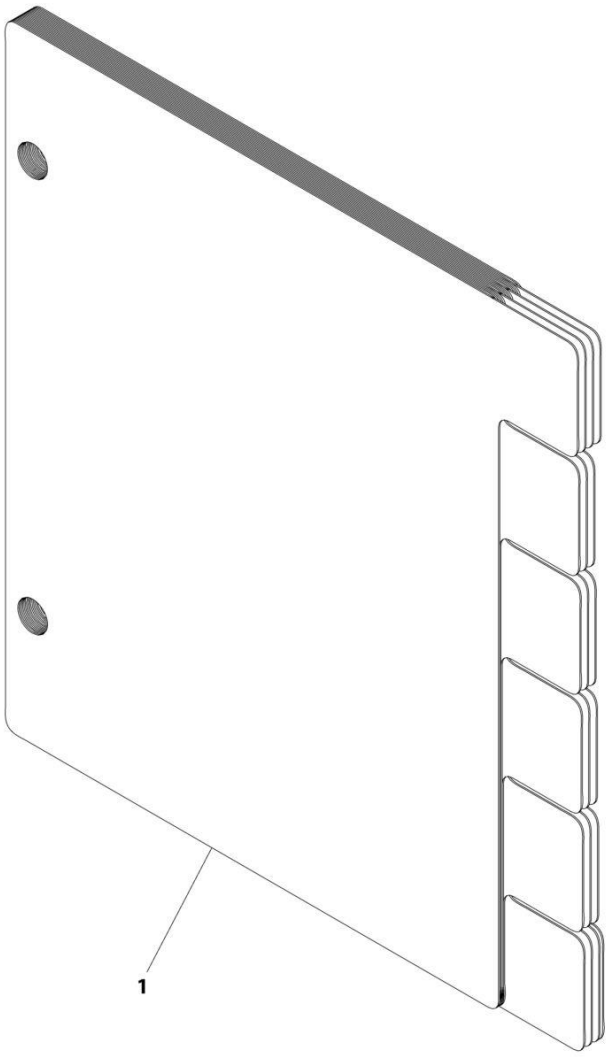


FIGURE 11-1. BRAND AND MODEL DECAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172977	Ref	Brand and Model Decal Installation	D
2	1001160775	1	Decal, JLG 5 Black	
3	1001169674	1	Decal, JLG M100X285	
4	1001172955	1	Decal, JLG 642	
5	1001172956	1	Decal, JLG 642 Cab	

FIGURE 11-2. CAPACITY CHART BOOKLET (NO OUTRIGGERS) (Prior to SN 0160075708)



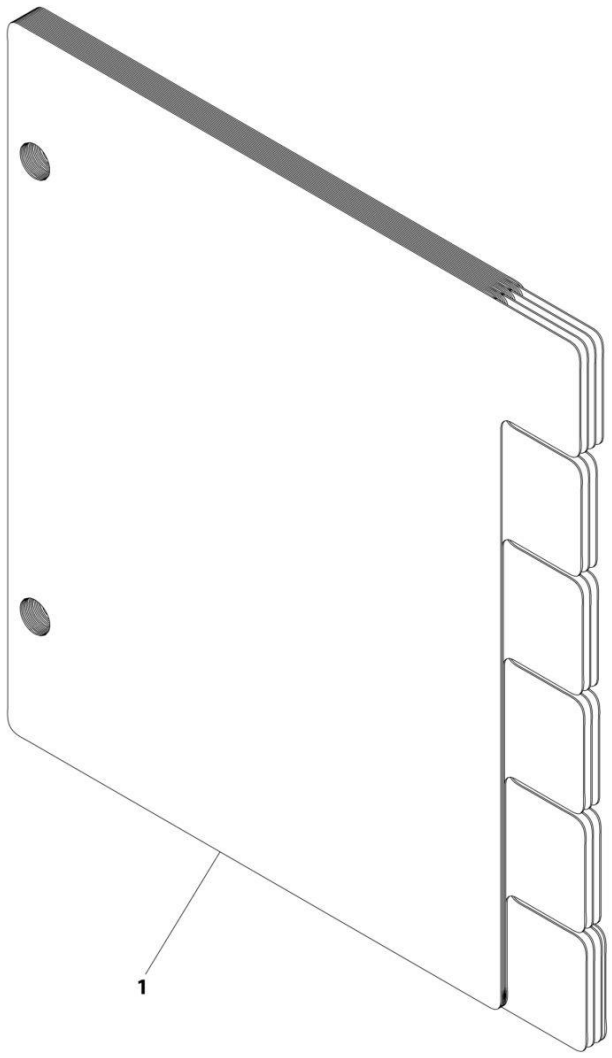
ART_1001211624-C

FIGURE 11-2. CAPACITY CHART BOOKLET (NO OUTRIGGERS) (Prior to SN 0160075708)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001203056	NLA	Capacity Chart Booklet (ANSI) - 642 (no longer available, use 1001211624 for replacement) (642)	B
1	1001211624	1	Capacity Chart Booklet (ANSI) - 642	B

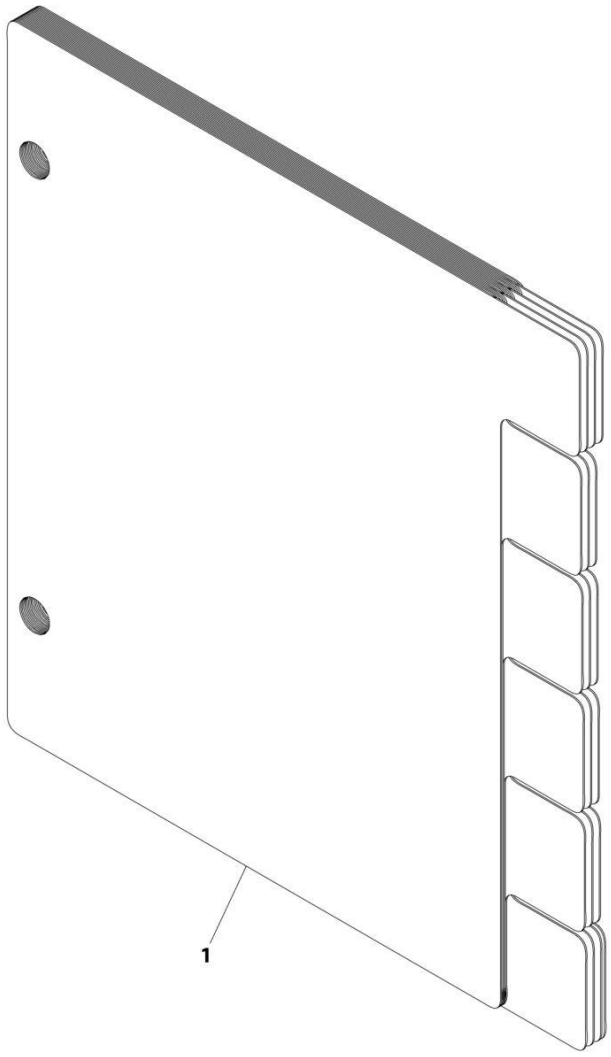
SECTION 11 - DECALS

FIGURE 11-3. CAPACITY CHART BOOKLET (NO OUTRIGGERS) (SN 0160075708 to Present)



ART_1001212421-D

FIGURE 11-4. CAPACITY CHART BOOKLET (OUTRIGGERS)

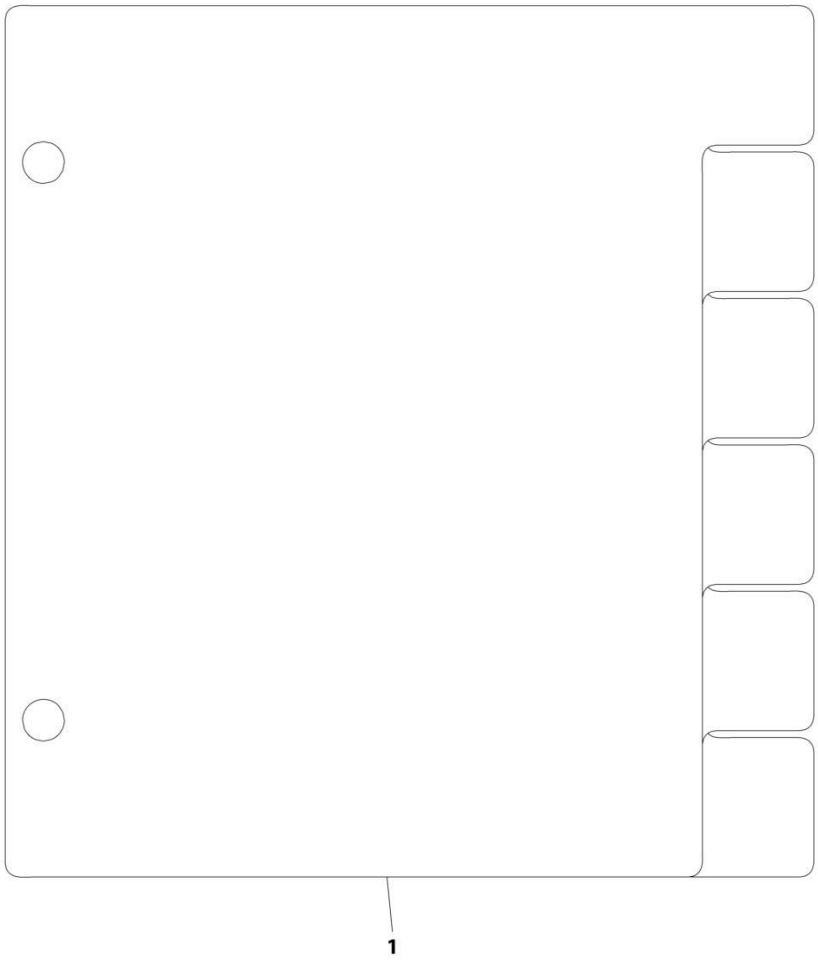


ART_1001203057-E

FIGURE 11-4. CAPACITY CHART BOOKLET (OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001203057	1	Capacity Chart Booklet (ANSI), (Outriggers)	C

FIGURE 11-5. CAPACITY CHART BOOKLET (ISO)(NO OUTRIGGERS)

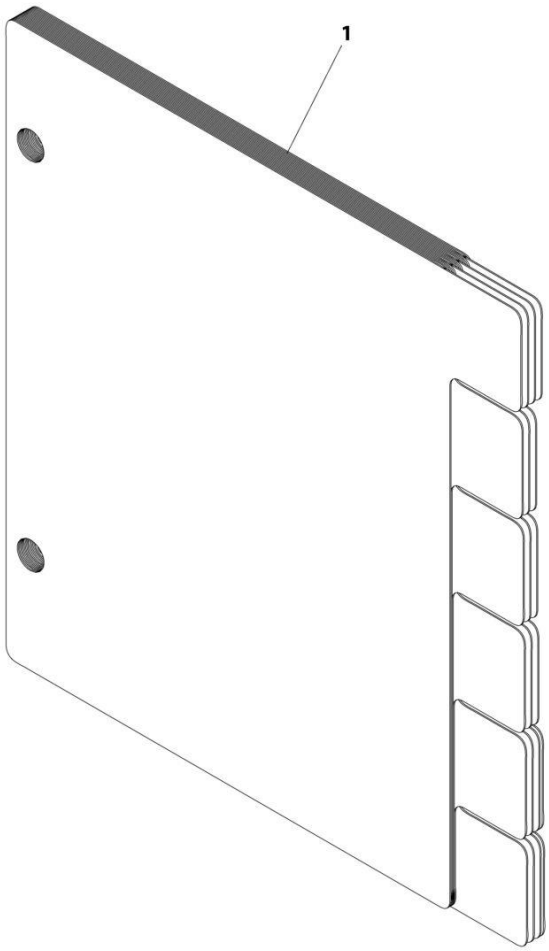


ART_1001206368-D

FIGURE 11-5. CAPACITY CHART BOOKLET (ISO)(NO OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001206368	1	Capacity Chart Booklet (ISO)	C

FIGURE 11-6. CAPACITY CHART BOOKLET (ISO)(OUTRIGGERS)



ART_1001206369-E

FIGURE 11-6. CAPACITY CHART BOOKLET (ISO)(OUTRIGGERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001206369	1	Capacity Chart Booklet (ISO), (Outriggers)	C

FIGURE 11-7. CAPACITY CHART HOLDER INSTALLAITON

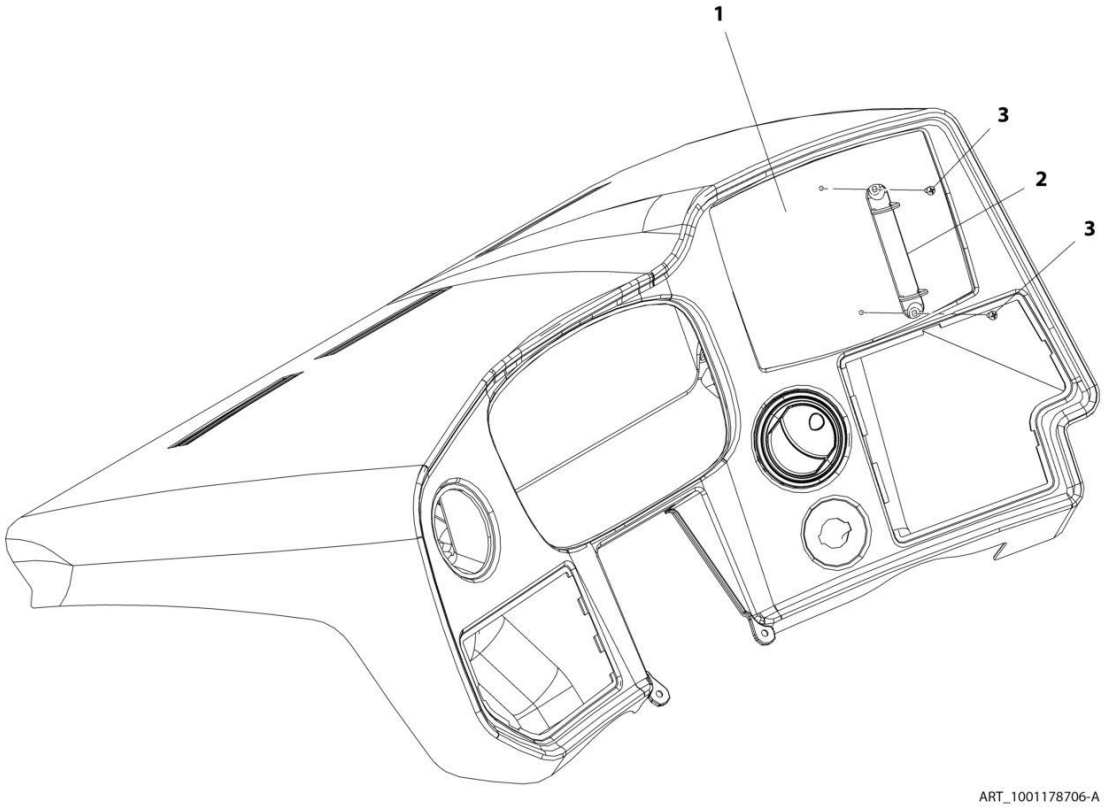


FIGURE 11-7. CAPACITY CHART HOLDER INSTALLAITON

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178706	Ref	Capacity Chart Holder Installation	A
1	1001179297	1	Load Chart, Bezel	
2	1001005960	1	Holder	
3	7029486	2	Screw	

FIGURE 11-8. CLEARSKY DECAL INSTALLATION

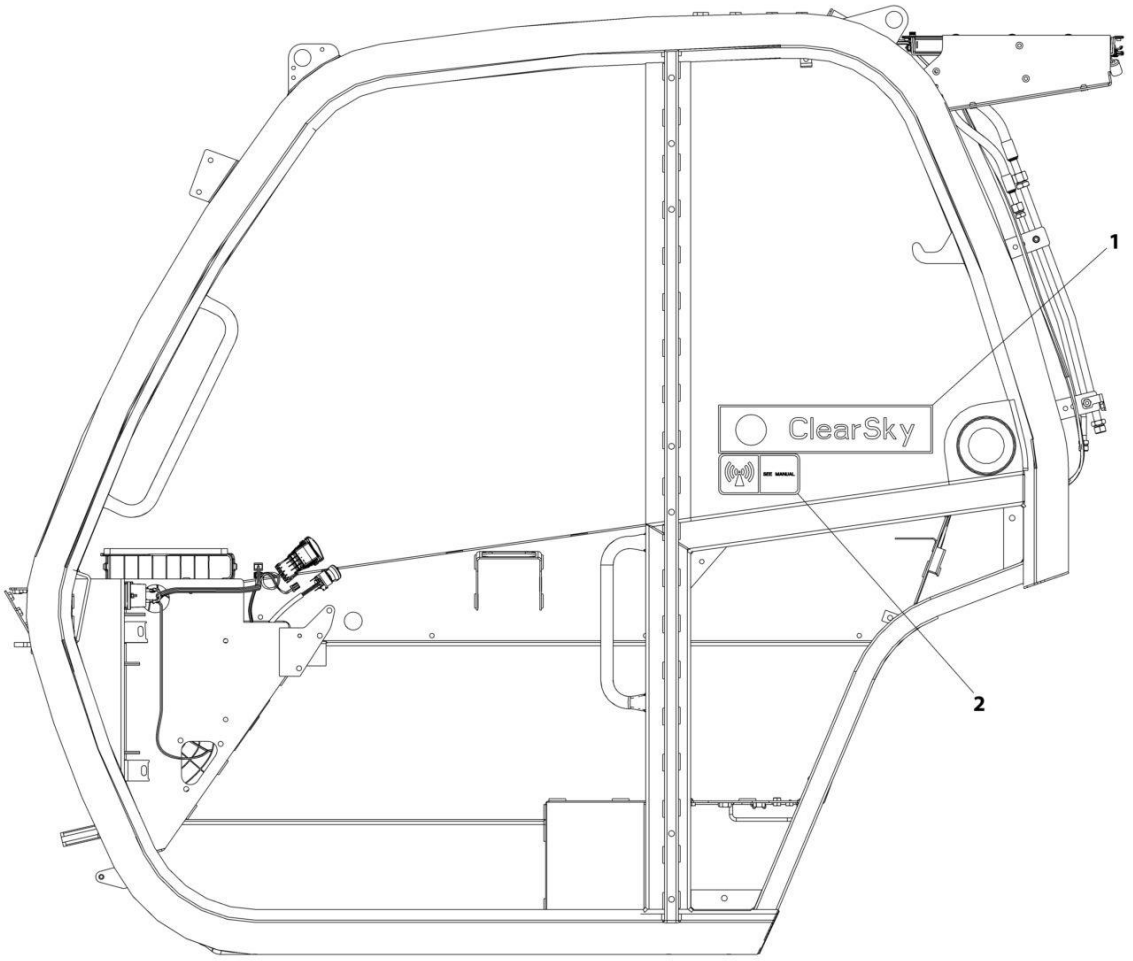


FIGURE 11-8. CLEARSKY DECAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229707	Ref	Clearsky Decal Installation	C
1	1001294815	1	Decal - ClearSky	
2	1001120989	1	Radio Frequency Decal	

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FIGURE 11-9. DECAL INSTALLATION (ANSI)

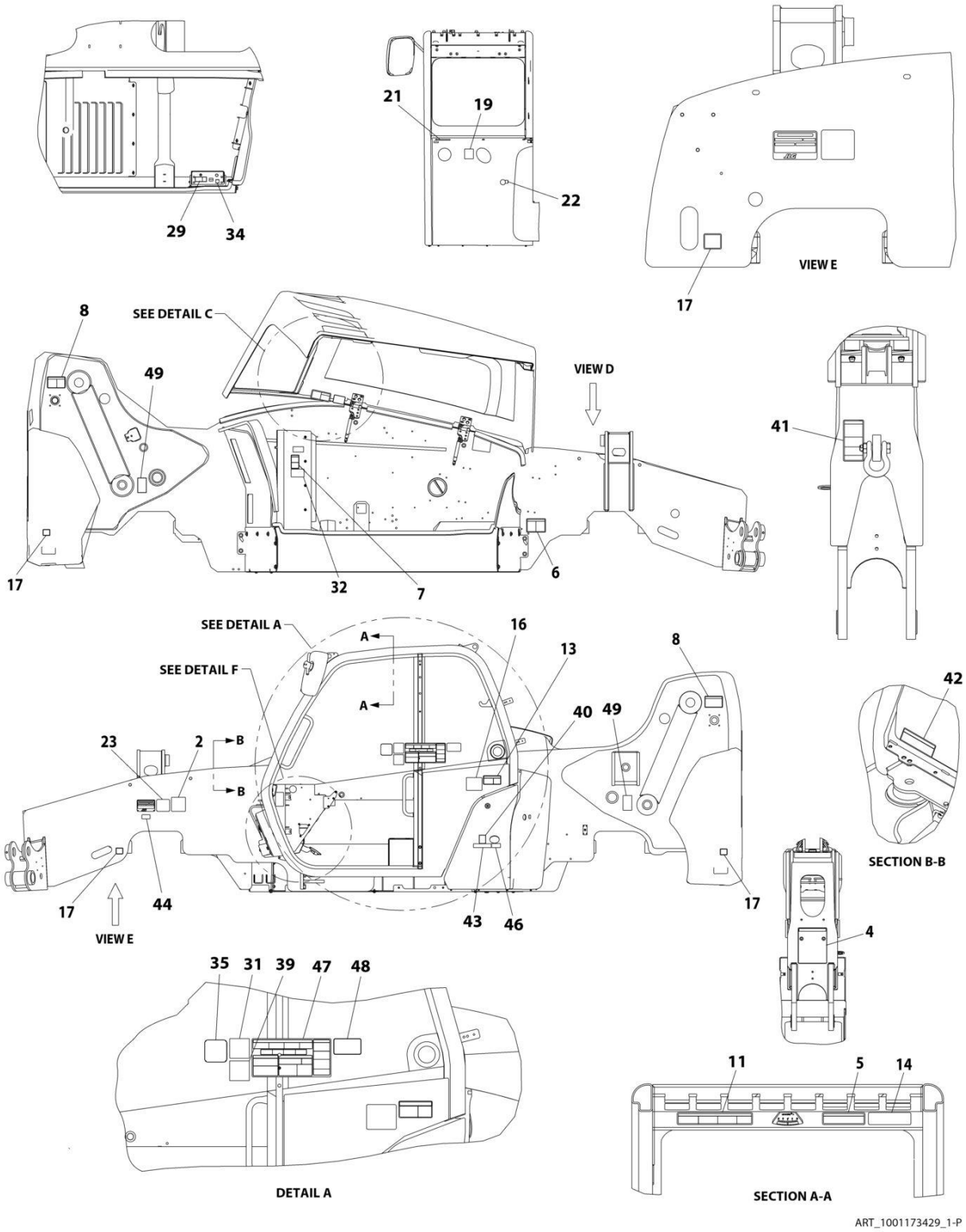

FIGURE 11-10. DECAL INSTALLATION (ANSI)

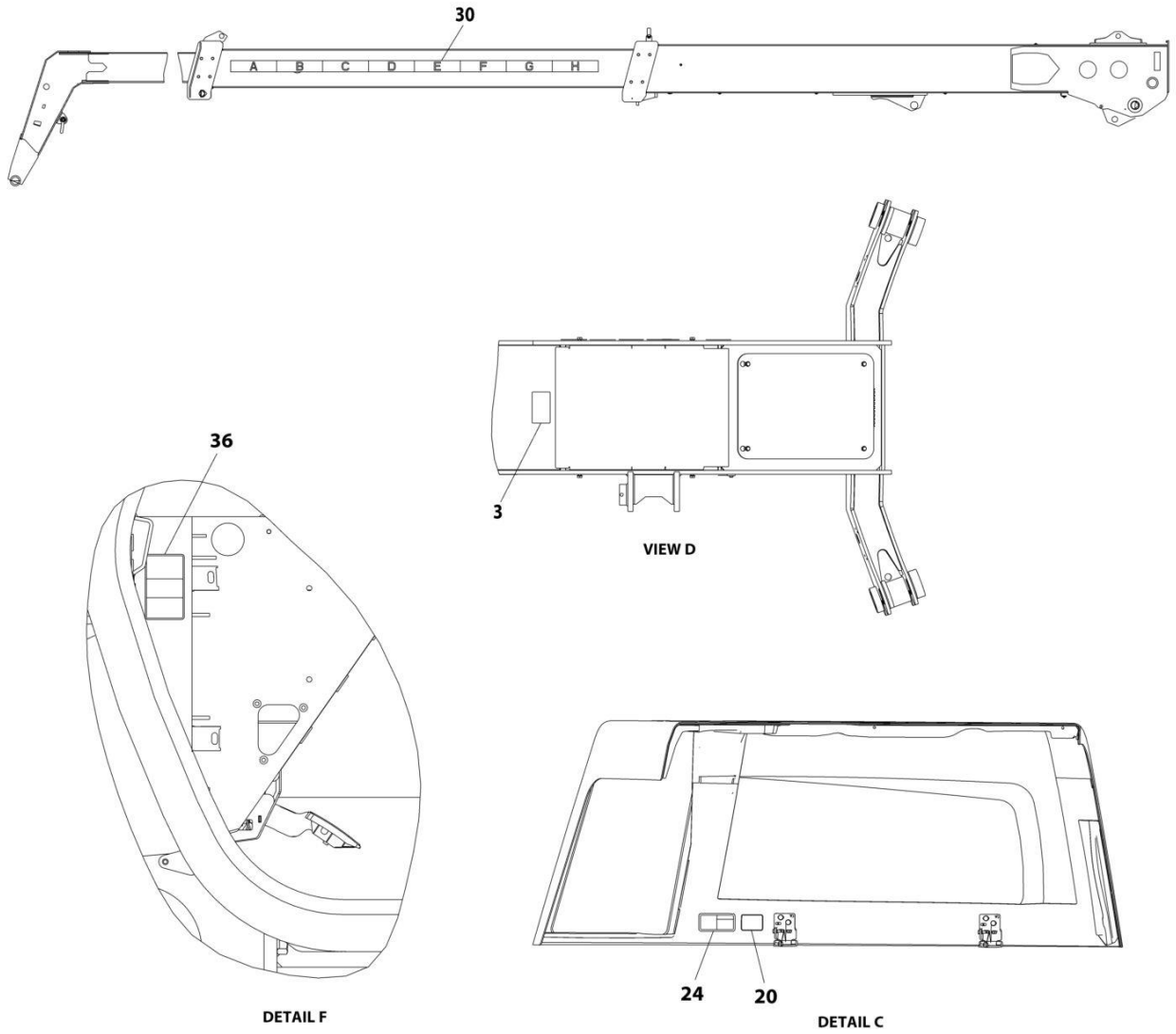

FIGURE 11-10. DECAL INSTALLATION (ANSI)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173429	Ref	Decal Installation	P
2	1702631	1	Decal, Bar Code	
3	1706296	1	Decal, Battery Warning	
4	1001195849	1	Decal, Carry Personnel	
5	1706299	1	Decal, Contacting Power Lines Warning	
6	1706300	1	Decal, Ether Warning	
7	1706301	1	Decal, Keep Clear Of Rotating Parts Warning	
8	1706302	2	Decal, Pinch Point Boom Holes	
11	1706306	1	Decal, Tip Over Warning	
13	1706768	1	Decal, Vehicle Roll Away	
14	1706850	1	Decal, Crush Hazard Warning	
16	3251813	1	Decal, USA	
17	4109801	4	Decal, Tie Down Point	
19	1001094708	1	Decal, Hydraulic Oil	
20	1001109053	1	Decal, Coolant Fill	
21	1001218704	1	Decal, Ultra Low Sulfur Diesel	
22	1001130323	1	Decal, Oil Level	
23	1001131271	1	Decal, Patent	
24	1001139578	1	Decal, Hot Fluid Warning	
26	1001229575	1	Decal, Nameplate	
29	1001195855	1	Decal, Battery Disconnect	
30	1001171277	1	Decal, Boom Extend	
31	1001172035	1	Decal, No Weld or Drill	
32	1001173422	1	Decal, MCO 110HP	
34	1001184632	1	Decal, Battery Positive	
35	1001188372	1	Decal, Sway	
36	1001191229	1	Decal, Fuse Panel	
39	1001200101	1	Decal, Manual	
40	1001196806	1	Decal, Diesel Exhaust Fluid	
41	1001207217	1	Decal, Danger Swinging Loads	
42	1001218659	1	Decal, Brake Fluid	
43	1001219212	1	Decal, DEF Fluid	
44	1001223453	1	Decal, ICES	
45	1001009178	4	Decal, Track Metal	
46	1001230310	1	Decal, JLG DEF Tank Service	

FIGURE 11-11. DECAL INSTALLATION (ISO)

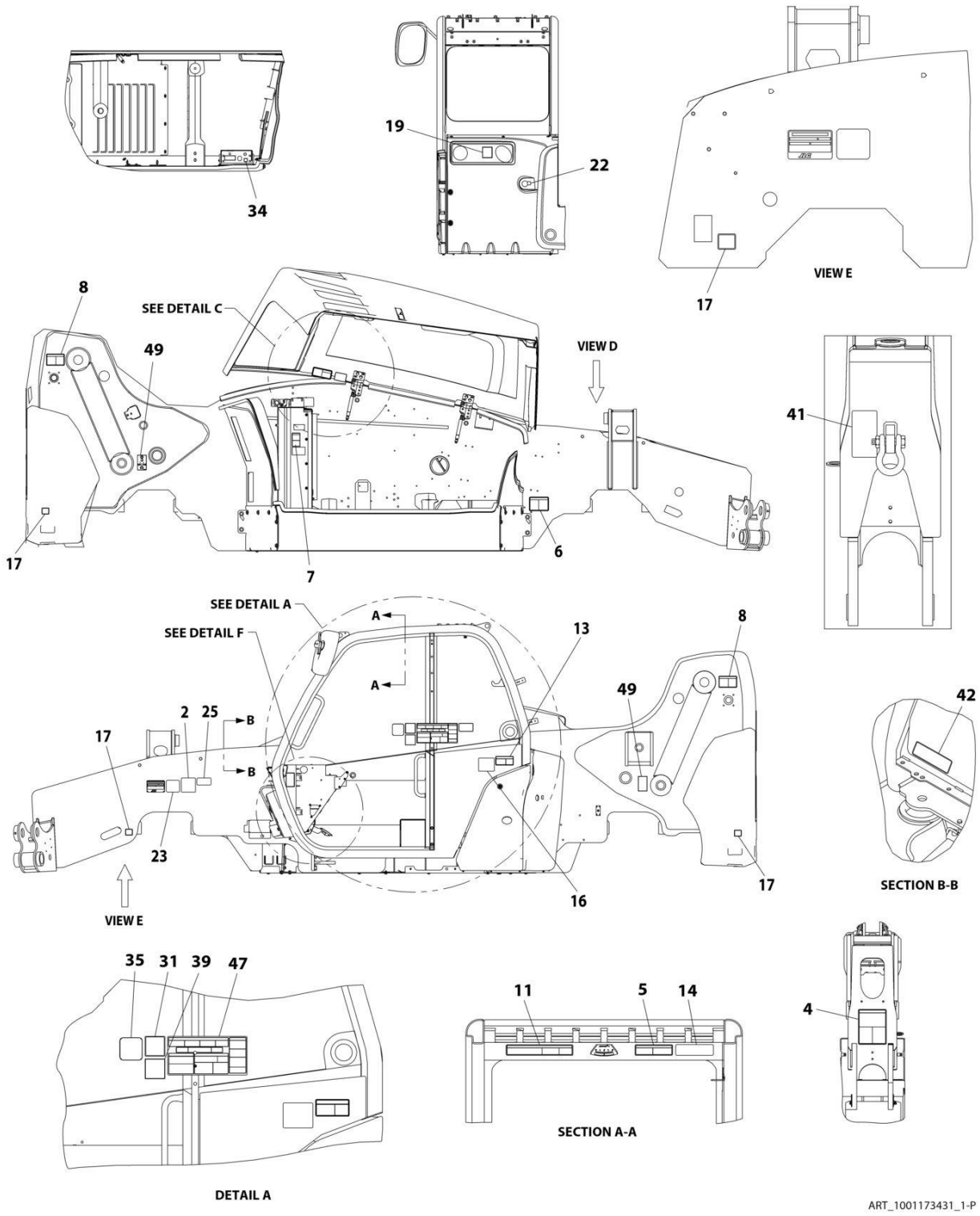

FIGURE 11-12. DECAL INSTALLATION (ISO)

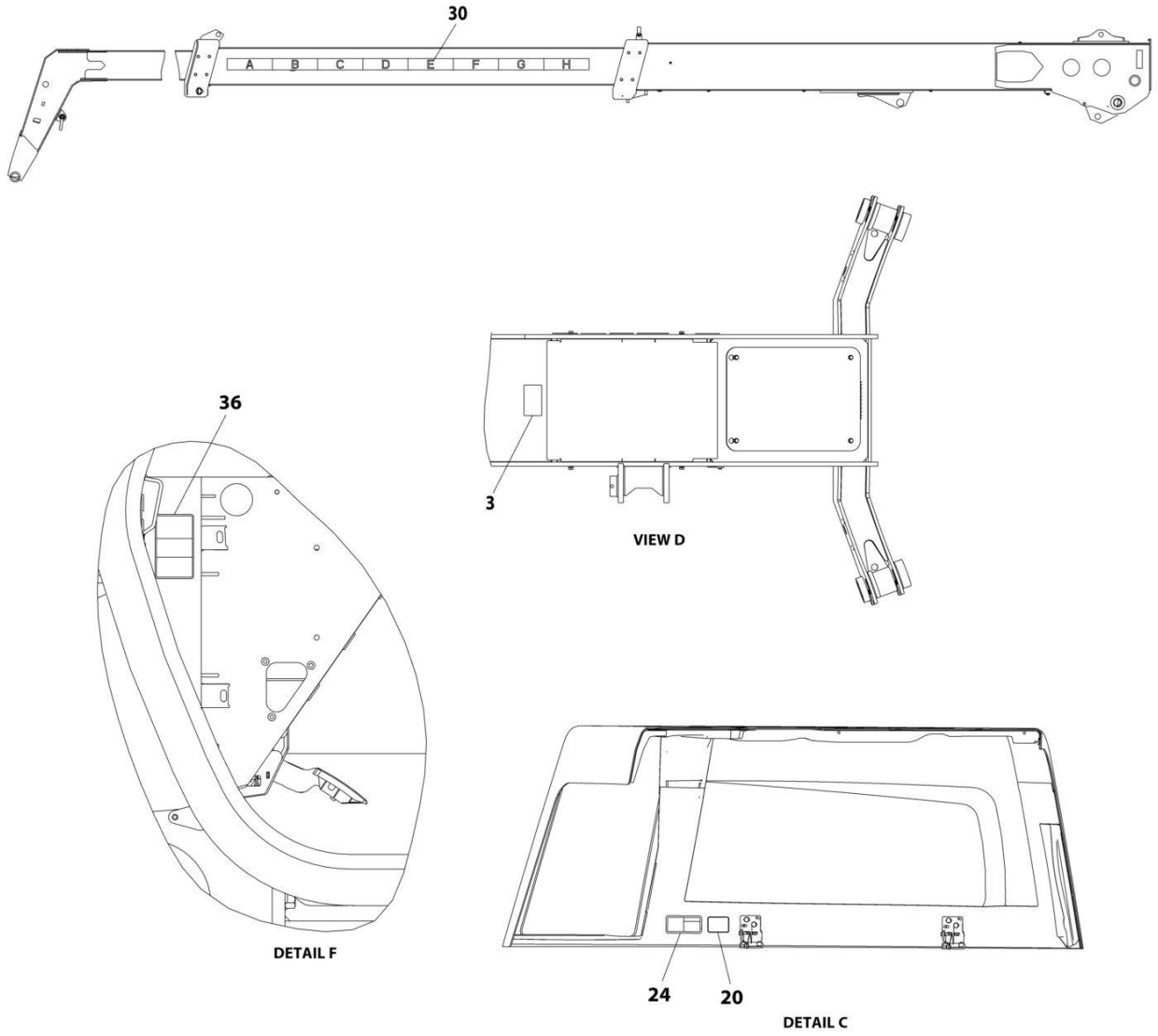

FIGURE 11-12. DECAL INSTALLATION (ISO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173431	1	Decal Installation (ISO)	P
2	1702631	1	Decal, Bar Code	
3	1706281	1	Decal, Battery Warning	
4	1706282	1	Decal, Carry Personnel	
5	1706284	1	Decal, Electrocution Hazard	
6	1706098	1	Decal, Ether Warning	
7	1706285	1	Decal, Keep Clear of Rotating Parts Warning	
8	1706292	2	Decal, Pinch Point Boom Holes	
11	1706288	1	Decal, Tip Over Warning	
13	1001092878	1	Decal, No Riders	
14	1001092877	1	Decal, Crush Hazard Warning	
16	3251813	1	Decal, USA	
17	4109801	4	Decal, Tie Down Point	
19	1001094708	1	Decal, Hydraulic Oil	
20	1001109053	1	Decal, Coolant Fill	
22	1001130323	1	Decal, Oil Level	
23	1001131271	1	Decal, Patent	
24	1001139942	1	Decal, Hot Fluid Warning	
25	1001143852	1	Decal, EPA (LS)	
26	1001229575	1	Decal, Nameplate	
30	1001171277	1	Decal, Boom Extend	
31	1001172035	1	Decal, No Weld or Drill	
32	1001173422	1	Decal, MCO 110HP	
34	1001184632	1	Decal, Battery Positive	
35	1001188372	1	Decal, Sway	
36	1001191229	1	Decal, Fuse Panel	
39	1001200101	1	Decal, Manual	
41	1001207218	1	Decal, Danger Swinging Loads	
42	1001219211	1	Decal, Brake Fluid	
45	1001009178	4	Decal, Track Metal	

SECTION 11 - DECALS

FIGURE 11-13. DECAL INSTALLATION (CSA ENGLISH/FRENCH)

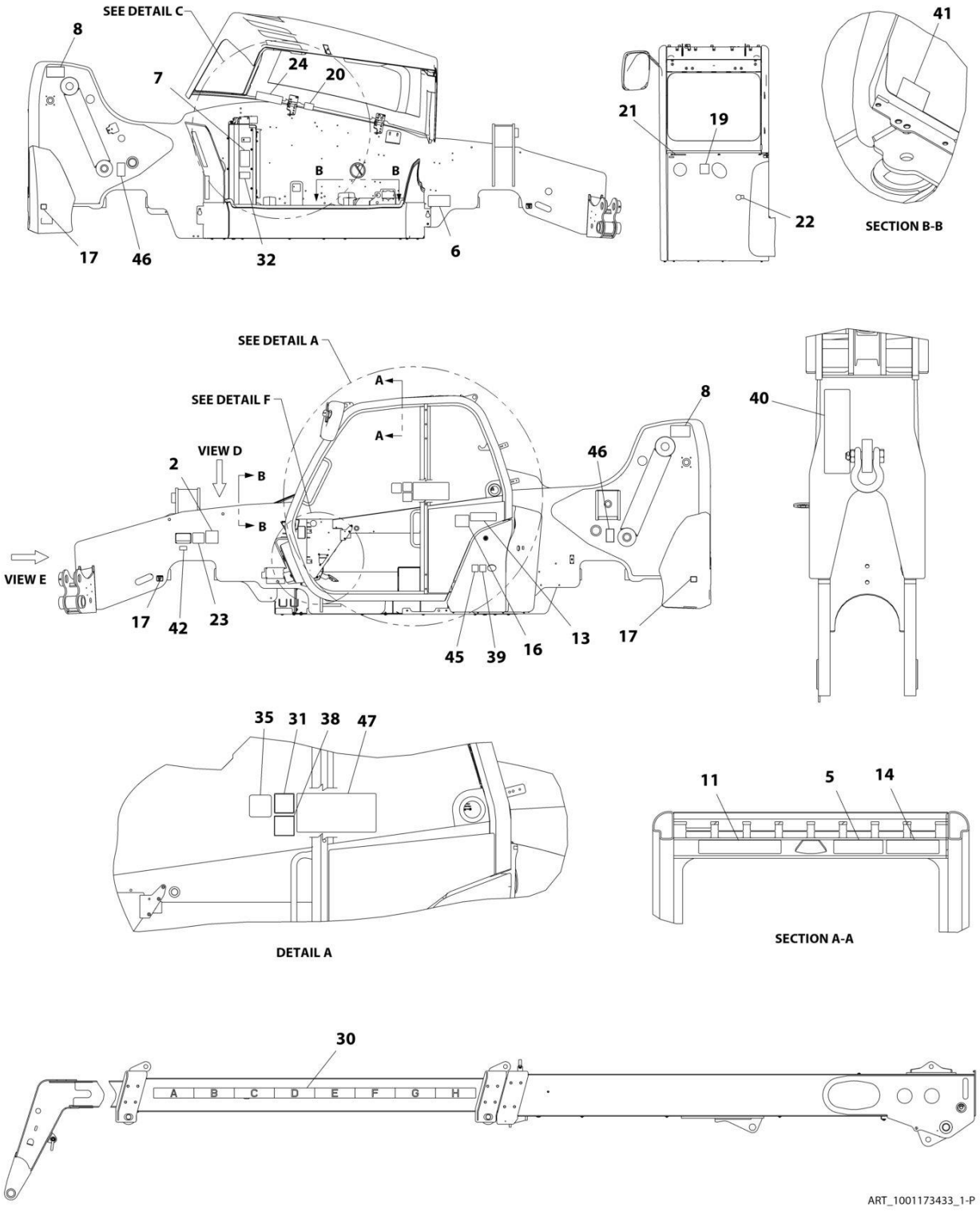

FIGURE 11-14. DECAL INSTALLATION (CSA ENGLISH/FRENCH)

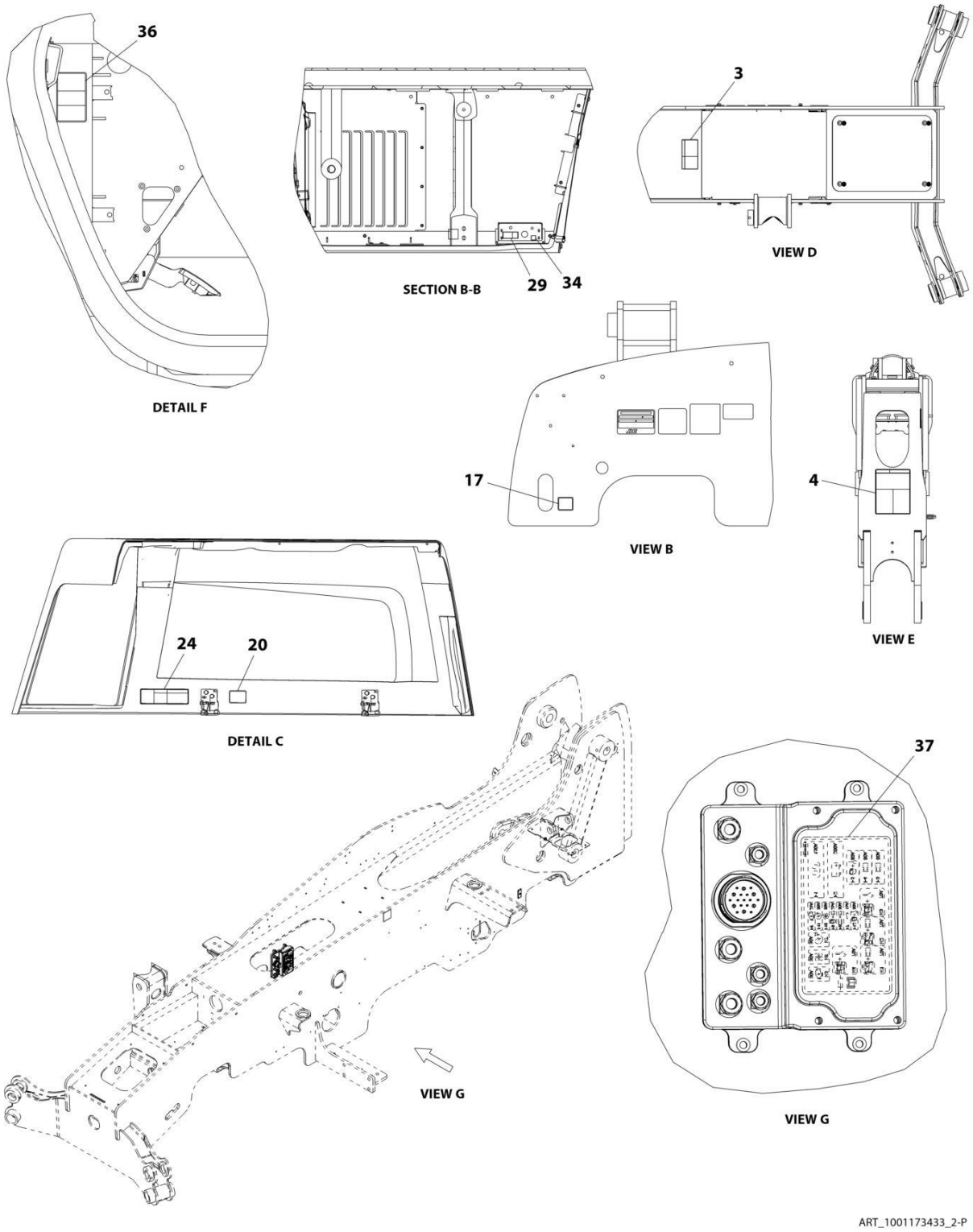

FIGURE 11-14. DECAL INSTALLATION (CSA ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001173433	Ref	Decal Installation (CSA English/French)	P
2	1702631	1	Decal, Bar Code	
3	1001163174	1	Decal, Battery Warning	
4	1001195851	1	Decal, Carry Personnel	
5	1001163210	1	Decal, Electrocution Hazard	
6	1001163212	1	Decal, Warning No Either	
7	1001163222	1	Decal, Moving Parts	
8	1001163223	2	Decal, Pinch Point	
11	1001163285	1	Decal, Warning Tip Over	
13	1001163300	1	Decal, No Riders	
14	1001163304	1	Decal, Warning Crushing Hazard	
16	3251813	1	Decal, USA	
17	4109801	1	Decal, Tie Down Point	
19	1001094708	1	Decal, Hydraulic Oil	
20	1001109053	1	Decal, Coolant Fill	
21	1001163355	1	Decal, Ultra Low Sulfur Diesel	
22	1001130323	1	Decal, Oil Level	
23	1001131271	1	Decal, Patent	
24	1001163323	1	Decal, Warning Hot Fluid	
26	1001229575	1	Decal, Nameplate	
29	1001195855	1	Decal, Battery Disconnect	
30	1001171277	1	Decal, Boom Extend	
31	1001172035	1	Decal, No Weld Or Drill	
32	1001173422	1	Decal, MCO, 130HP	
34	1001184632	1	Decal, Battery Positive	
35	1001188372	1	Decal, Sway	
36	1001191229	1	Decal, Fuse Panel	
37	1001191487	1	Decal, Fuse Panel (Note: Supply with power distribution box)	
38	1001200101	1	Decal, Manual	
39	1001196806	1	Decal, Diesel Exhaust Fluid	
40	1001209625	1	Decal, Danger Swinging Loads	
41	1001219211	1	Decal, Brake Fluid	
42	1001223453	1	Decal, ICES	
44	1001009178	4	Decal, Track Metal	
45	1001230311	1	Decal DEF Tank	

FIGURE 11-15. JLG DECAL INSTALLATION

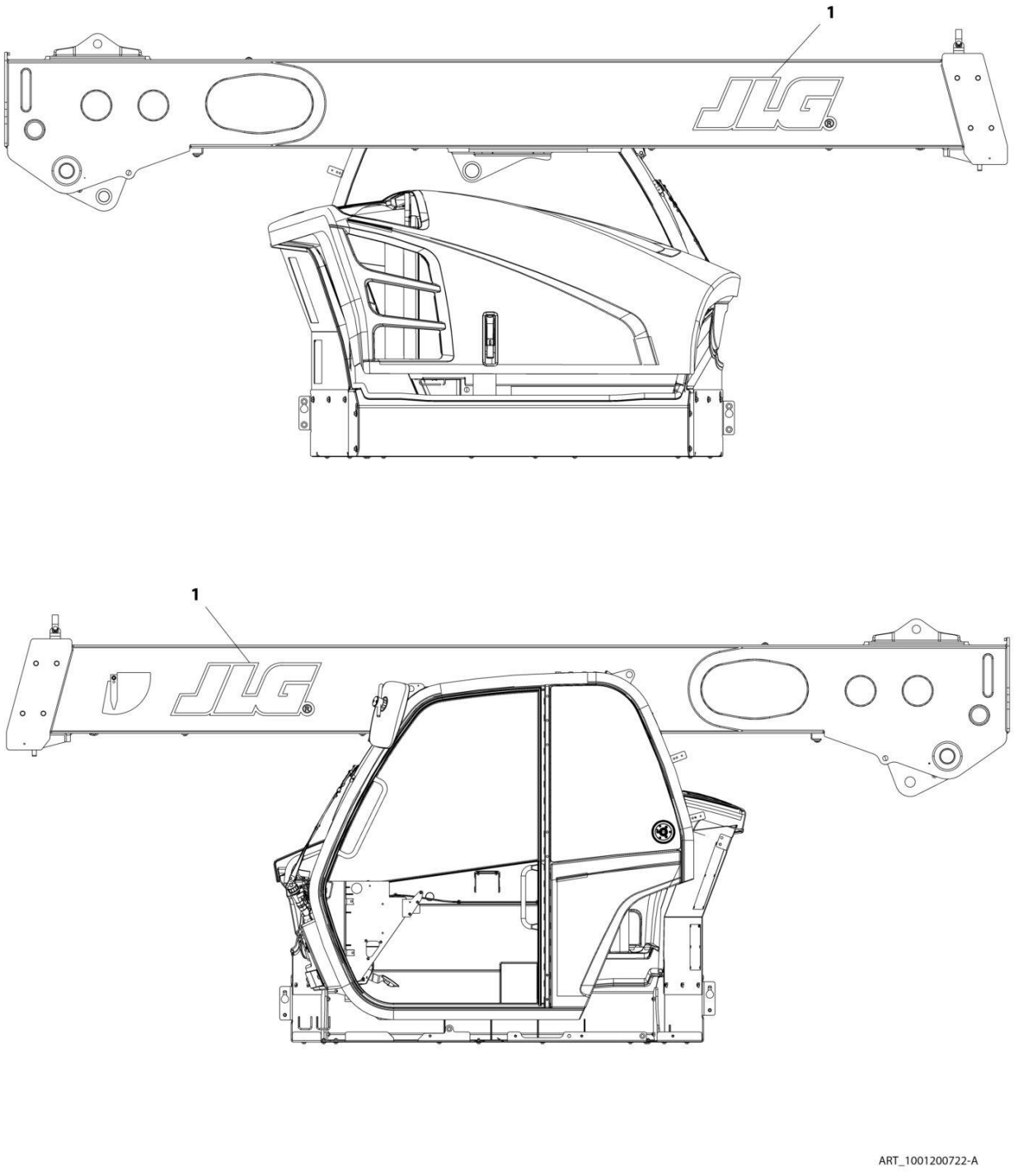

FIGURE 11-15. JLG DECAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001200722	1	Decal Installation (642)	A
1	1001159728	2	Decal, JLG Logo	

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

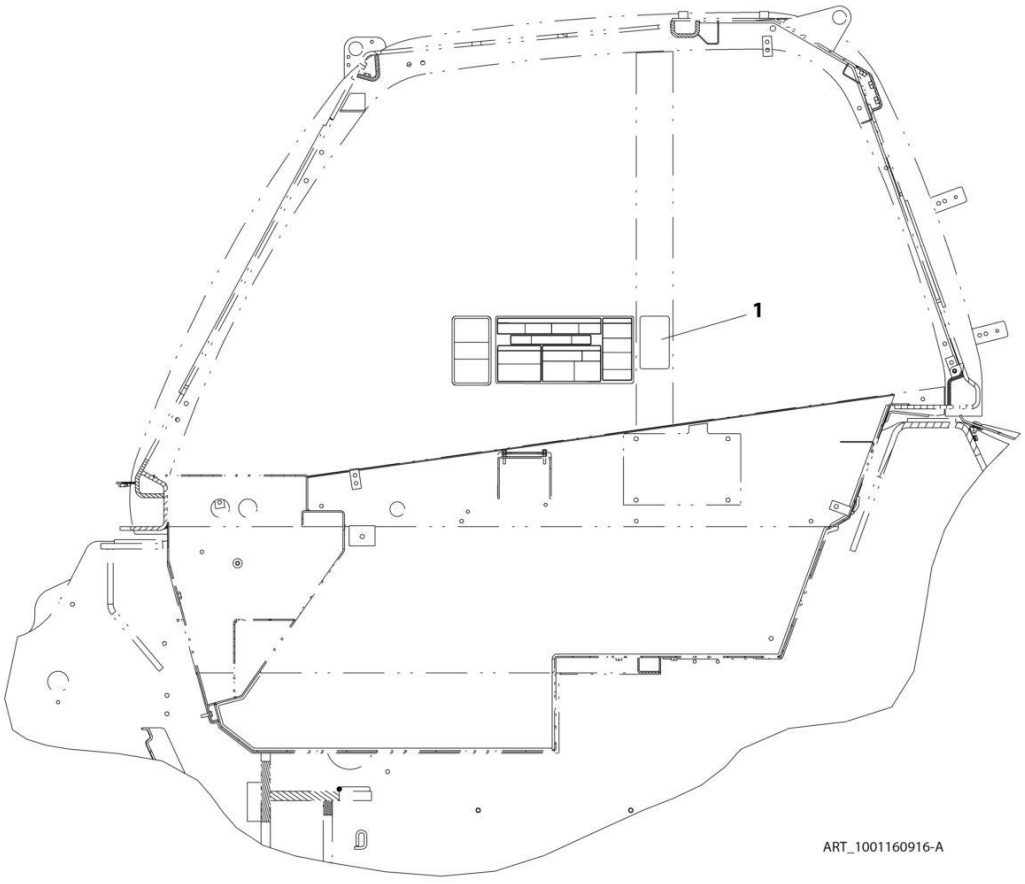

FIGURE 11-16. REVERSE SENSOR SYSTEM DECAL (ISO)

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

FIGURE 11-17. REVERSE SENSOR SYSTEM DECAL (ANSI)

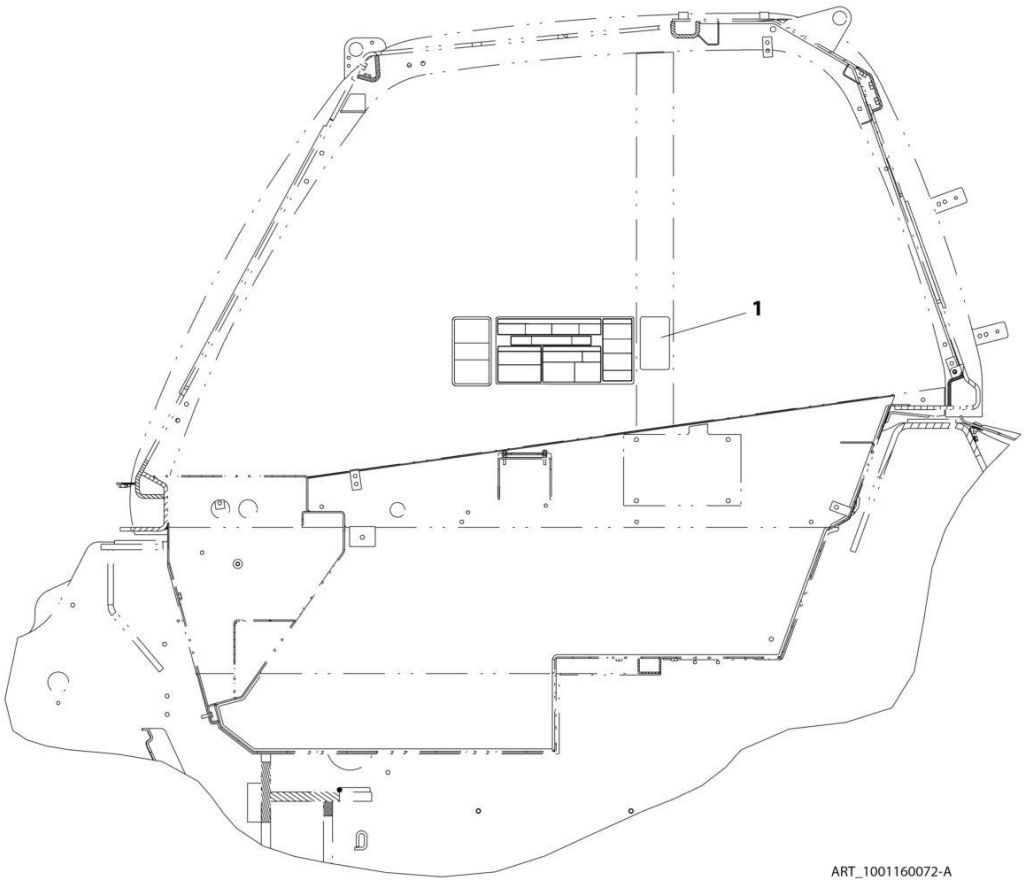

FIGURE 11-17. REVERSE SENSOR SYSTEM DECAL (ANSI)

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

FIGURE 11-18. REVERSE SENSOR SYSTEM DECAL (CSA ENGLISH/FRENCH)

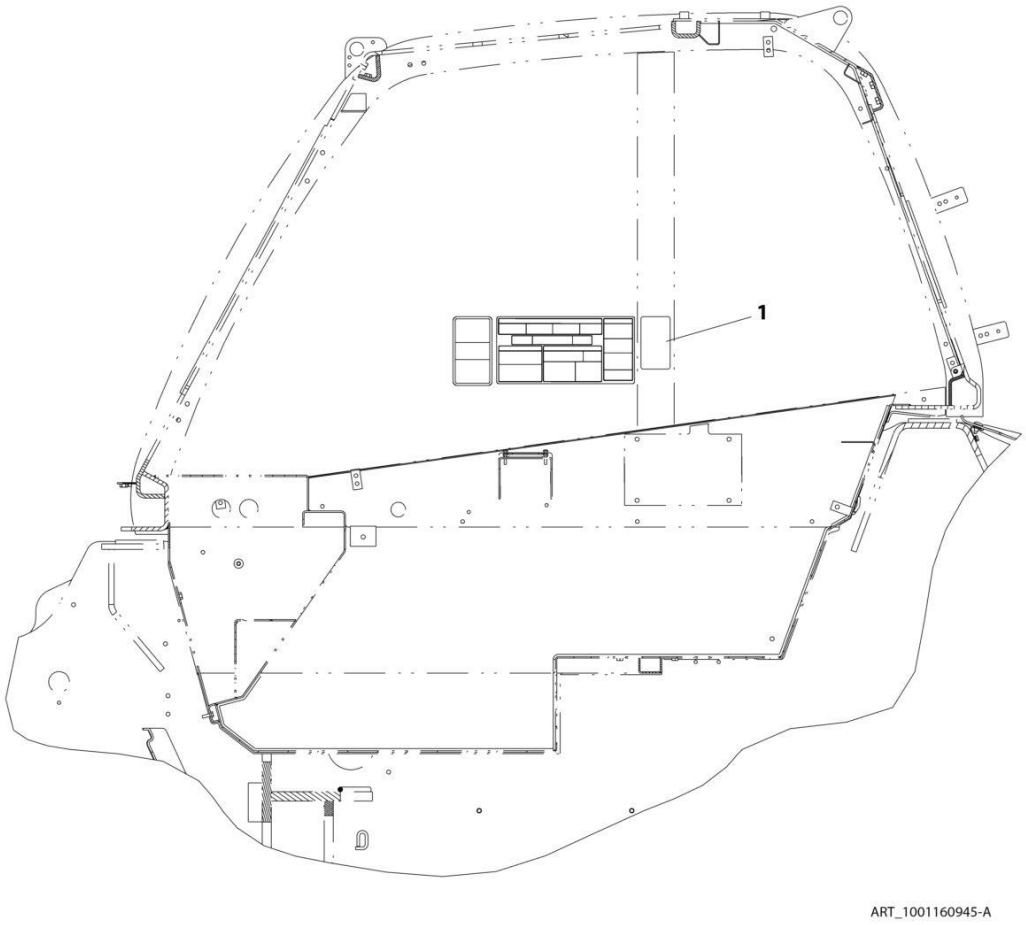

FIGURE 11-18. REVERSE SENSOR SYSTEM DECAL (CSA ENGLISH/FRENCH)

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

SECTION 12 - RECOMMENDED SERVICE PARTS STOCK

SECTION 12 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 12-1. RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.	
	1001169268	1	Button, Horn (Horn Button Installation)	
	70003788	1	Coil (REAR AXLE STABILIZER VALVE (Prior to SN 0160080899), (SN 0160080899 through 0160084857))	
	70002386	1	Coil (REAR AXLE STABILIZER VALVE (Prior to SN 0160080899), PARK BRAKE VALVE)	
	70026582	1	Coil (STEER SELECT VALVE)	
	70021208	1	Coil (FRAME LEVEL VALVE, FRAME LEVEL AND OUTRIGGER VALVE)	
	70022147	1	Coil (FRAME LEVEL AND OUTRIGGER VALVE)	
	70020868	1	Coil (FRAME LEVEL AND OUTRIGGER VALVE)	
	70020764	1	Coil (QUICK COUPLER VALVE)	
	70002963	1	Coil (PRIORITY MANIFOLD VALVE)	
	1001203181	1	Control, Accessory (ASOV)	
	1001229458	1	Control, Gateway (CUSTOMER SUPPLIED TELEMATICS CANBUS (SN 0160082365 through 0160084857, Excluding 0160081891, 0160081892, 0160081893, 0160082021, 0160082022 and 0160082054))	
	1001159028	1	Controller, Accelerator Pedal (ACCELERATOR PEDAL)	
	1001197137	1	Controller, Brake Pedal (BRAKE PEDAL	
	1001242098	1	Controller, Fingertip Joystick (OUTRIGGER SWITCHES INSTALLATION)	
	1001222609	1	Controller, Joystick	
	1001177597	2	Diode, 6amp (ENGINE HARNESS (ULS))	
		Ref	ENGINE - QSF 3.8L 74HP (ULS)	
	70026234	12	Element, Primary Fuel Filter	
	70026453	12	Element, Secondary Fuel Filter	
	70025852	12	Filter, Air Cylindrical Primary	
	70025853	12	Filter, Air Cylindrical Secondary	
	70026237	12	Filter, Oil	
		Ref	ENGINE - QSF 3.8L, (110HP) (ULS)	
	70025852	12	Filter, Air Cylindrical Primary	
	70025853	12	Filter, Air Cylindrical Secondary	
	70026453	12	Filter, Fuel	
	70026237	12	Filter, Oil	
		Ref	ENGINE - QSF 3.8L, (110HP) (LS)	
	70026234	12	Element, Primary Fuel Filter	
	70026801	12	Element, Secondary Fuel Filter	
	70025850	12	Filter, Air Cylindrical Primary	
	70025851	12	Filter, Air Cylindrical Secondary	
	70026237	12	Filter, Oil	
	1001162662	12	Filter, Breather (HYDRAULIC TANK)	
	1001162660	12	Filter, Hydraulic (HYDRAULIC TANK)	
	8229261	2	Fuse, 5amp (ENGINE AIR SHUT OFF VALVE HARNESS)	
	8229242	2	Fuse, 5amp (ENGINE HARNESS (ULS) (Prior to SN 0160080782), STANDARD ELECTRICAL BOARD ASSEMBLY,	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			OPTION 1 ELECTRICAL BOARD ASSEMBLY, TELEMATICS HARNESS (CLEARSKY 2))	
	80983191	2	Fuse, 10amp (ENGINE HARNESS (ULS) (Prior to SN 0160080782), OPTION 2 ELECTRICAL BOARD ASSEMBLY, STANDARD ELECTRICAL BOARD ASSEMBLY, OPTION 1 ELECTRICAL BOARD ASSEMBLY)	
	8229234	2	Fuse, 10amp (ENGINE AIR SHUT OFF VALVE HARNESS)	
	8229244	2	Fuse, 15amp (POWER DISTRIBUTION ELECTRICAL BOX, ENGINE HARNESS (ULS), OPTION 2 ELECTRICAL BOARD ASSEMBLY)	
	8229235	2	Fuse, 20amp (ENGINE AIR SHUT OFF VALVE HARNESS)	
	8229247	2	Fuse, 25amp (POWER DISTRIBUTION ELECTRICAL BOX, OPTION 1 ELECTRICAL BOARD ASSEMBLY)	
	8229245	2	Fuse, 30amp (POWER DISTRIBUTION ELECTRICAL BOX, STANDARD ELECTRICAL BOARD ASSEMBLY)	
	70026297	2	Fuse, 80amp (POWER DISTRIBUTION ELECTRICAL BOX)	
	1001095336	2	Fuse, 150amp (POWER DISTRIBUTION ELECTRICAL BOX)	
	70026296	2	Fuse, 200amp (POWER DISTRIBUTION ELECTRICAL BOX)	
	1001131177	2	Fuse, Power Module (ENGINE WIRING INSTALLATION (ULS))	
	70022765	1	Key, Ignition (DASH ELECTRICAL INSTALLATION)	
	2940074	1	Latch (FORK MOUNTED PLATFORM ASSEMBLY)	
	1001162249	1	Module, Cab Control (CAB ELECTRICAL INSTALLATION)	
	1001229955	1	Module, Dual CAN TCU (TELEMATICS CANBUS INSTALLATION (CLEARSKY 2) (ANSI))	
	1001239194	1	Module, Dual CAN TCU (TELEMATICS CANBUS INSTALLATION (CLEARSKY 2) (CE))	
	1001162253	1	Module, Front Frame Control (ELECTRICAL FRAME INSTALLATION)	
	1001162256	1	Module, Rear Frame Control (ELECTRICAL FRAME INSTALLATION)	
	1001226328	1	Module, 3W TCU (CLEARSKY INSTALLATION 3-WIRE (ANSI))	
	1001233236	1	Module, 3W TCU (CLEARSKY INSTALLATION 3-WIRE (CE))	
	3740080	1	Relay, 20/40amp (AIR INTAKE SHUT OFF VALVE INSTALLATION)	
	70026295	1	Relay, 30amp (POWER DISTRIBUTION ELECTRICAL BOX)	
	1001205172	1	Relay, 35amp (ENGINE HARNESS (ULS))	
	70026292	1	Relay, 35amp (STANDARD ELECTRICAL BOARD ASSEMBLY)	
	70026293	1	Relay, 50amp (OPTION 1 ELECTRICAL BOARD ASSEMBLY)	
	70026294	1	Relay, 70amp (POWER DISTRIBUTION ELECTRICAL BOX)	
	1001117308	1	Relay, 200amp (ENGINE BAY ELECTRICAL INSTALLATION)	
	4000015	1	Sensor, Angle (BOOM ANGLE SENSOR INSTALLATION)	
	1001121955	1	Sensor, Coolant Level (SURGE TANK INSTALLATION)	
	1001147340	1	Sensor, Pressure Transducer (CAB HYDRAULIC INSTALLATION)	
	1001189997	1	Sensor, Reverse (REVERSE SENSOR INSTALLATION)	
	1001190881	1	Sensor, Speed (COUNTERBALANCE VALVE INSTALLATION)	
	1001128478	1	Sensor, Temperature (HYDRAULIC TANK)	
	70026657	1	Solenoid (MAIN CONTROL VALVE)	
	70026659	1	Solenoid (MAIN CONTROL VALVE)	
	1001104654	1	Switch, AUX (DASH ELECTRICAL INSTALLATION)	
	1001159746	1	Switch, Auxiliary Electric (BOOM AUXILIARY ELECTRIC INSTALLATION)	
	1001159738	1	Switch, Beacon (BEACON INSTALLATION)	
	1001159745	1	Switch, Boom Ride (COUNTERBALANCE VALVE INSTALLATION)	

SECTION 12 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159739	1	Switch, Boom Worklights (SN 0160076255 through 0160084857, Including 0160076040, 0160076041 and 0160076042) (BOOM WORK LIGHTS INSTALLATION)	
	1001192142	1	Switch, Disconnect (ENGINE BAY ELECTRICAL INSTALLATION)	
	1001163639	1	Switch, Driving Lights (Prior to SN 0160076255, Excluding 0160076040, 0160076041 and 0160076042) (BOOM WORK LIGHTS INSTALLATION)	
	1001163698	1	Switch, FNR 4 Speed (DASH ELECTRICAL INSTALLATION)	
	1001189876	1	Switch, Frame Level (Prior to SN 0160081650) (DASH ELECTRICAL INSTALLATION)	
	1001212470	1	Switch, Frame Level (SN 0160081650 through 0160084857) (DASH ELECTRICAL INSTALLATION)	
	1001159845	1	Switch, Front Worklights (CAB WORKLIGHTS INSTALLATION)	
	1001159734	1	Switch, Hazard (ROAD LIGHTS INSTALLATION)	
	1001160326	1	Switch, HVAC On/Off (HEATER AND A/C INSTALLATION)	
	1001159925	1	Switch, HVAC Recycle (HEATER AND A/C INSTALLATION)	
	1001172547	1	Switch, HVAC Rotary 3 Speed (HEATER AND A/C INSTALLATION)	
	1001159753	1	Switch, Park Brake (DASH ELECTRICAL INSTALLATION)	
	1001080375	1	Switch, Quick Coupler (BOOM AUXILIARY HYDRAULICS)	
	1001159735	1	Switch, Rear Wiper (REAR WIPER INSTALLATION)	
	1001159846	1	Switch, Rear Worklights (CAB WORKLIGHTS INSTALLATION)	
	1001159736	1	Switch, Roof Wiper (ROOF WIPER INSTALLATION)	
	1001159849	1	Switch, Steer Mode (DASH ELECTRICAL INSTALLATION)	
	1001215941	1	Switch, Toggle (AIR INTAKE SHUT OFF VALVE INSTALLATION)	
	1001163695	1	Switch, Wiper-Turn (WIPER-TURN SWITCH)	
	1001102502	1	Switch, 4 Position Key (DASH ELECTRICAL INSTALLATION)	

SECTION 13 - SPECIAL OPTIONS/ACCESSORIES/KITS

SECTION 13 - SPECIAL OPTIONS/ACCESSORIES/KITS

FIGURE 13-1. SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.	
	1001254401	Ref	Access Control Kit	
	1001243187	Ref	Access Control Telematics Dual CAN Kit (N.A) (ANSI, ANSI Export, CSA)	
	1001245914	Ref	Backup Camera Kit	
	1001199376	Ref	Beacon Kit	
	1001211986	Ref	Boom Brushes Kit	
	1001211988	Ref	Boom Kit	
	1001213286	Ref	Cab Display Kit	
	1001210341	Ref	Cab Electrical Accessory Opt 1 Kit	
	1001210342	Ref	Cab Electrical Accessory Opt 2 Kit	
	1001213334	Ref	Cab Enclosure Kit (JLG)	
	1001213342	Ref	Cab Enclosure With Heat Kit (HRC/LRC) (JLG)	
	1001213343	Ref	Cab Enclosure With Heat & A/C Kit (HRC) (JLG)	
	1001213344	Ref	Cab Enclosure With Heat & A/C Kit (LRC) (JLG)	
	1001213336	Ref	Cab Heater Kit (HRC/LRC)	
	1001213339	Ref	Cab Heater & A/C Kit (HRC) (ANSI, ANSI Export, CSA)	
	1001213340	Ref	Cab Heater & A/C Kit (LRC) (ANSI Export)	
	1001211991	Ref	Cold Weather Kit (HRC) (ANSI, ANSI Export, CSA)	
	1001211992	Ref	Cold Weather Kit (LRC) (ANSI Export)	
	1001238953	Ref	DEF Sensor Upgrade Kit (ANSI, ANSI Export, CSA)	
		Ref	Electrical Connector Kits	
	1001148902	Ref	Electrical Connector Kit - Amp/Tyco Electrical Connectors	
	1001148903	Ref	Electrical Connector Kit - Deutsch DT Electrical Connectors	
	1001148904	Ref	Electrical Connector Kit - Deutsch HD Electrical Connectors	
	1001148905	Ref	Electrical Connector Kit - Packard Electrical Connectors	
	1001148906	Ref	Electrical Connector Kit - Various Electrical Connectors	
	1001214167	Ref	External Rear Window Release Kit	
	1001199378	Ref	Fender, HB Kit	
		Ref	Filter Kits:	
	1001208643	Ref	250 Hour Filter Kit	
	1001208644	Ref	1000 Hour Filter Kit	
	1001199381	Ref	Front Cab Guard Kit	
	1001278325	Ref	Fuel Cap Cover Kit	
	1001213349	Ref	Heat Only to Heat & A/C Upgrade Kit (HRC) (JLG)	
	1001213350	Ref	Heat Only to Heat & A/C Upgrade Kit (LRC) (JLG)	
	1001265372	Ref	High Capacity Telematics Harness Kit (N.A) (ANSI, CSA)	
	1001236255	Ref	JLG Hood Hinge Support Kit	
	1001199362	Ref	Rear Wiper Kit	
	1001199366	Ref	Reverse Camera Kit	
	1001252086	Ref	Reverse Sensing Kit	
	1001212486	Ref	Road Lights Kit	
	1001212487	Ref	Road Lights Kit (No Outriggers)	
	1001230106	Ref	Road Lights Kit, No Outriggers	
	1001230107	Ref	Road Lights Kit, With Outriggers	
	1001213289	Ref	Roof Cap Kit (Short)	
	1001199328	Ref	Roof Wiper Kit	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001281071	Ref	Seaop Seat Kit	
		Ref	Seal Kits:	
	70026639	Ref	Compensation Cylinder Seal Kit	
	1001168668	Ref	Extend/Retract Cylinder Seal Kit	
	70026253	Ref	Frame Level Cylinder Seal Kit	
	1001197918	Ref	Lift Cylinder Seal Kit	
	70026309	Ref	Outrigger Cylinder Seal Kit	
	70026253	Ref	Rear Axle Stability Cylinder Seal Kit	
	70026062	Ref	Side Tilt Cylinder Seal Kit	
	1001197801	Ref	Tilt Cylinder Seal Kit	
	1001272892	Ref	Service JLG EROPS Kit	
	1001272890	Ref	Service JLG OROPS Kit	
	1001260947	Ref	Smart Shift Kit	
		Ref	Telematics:	
	1001276923	Ref	ClearSky GT1030 Kit	
	1001254400	Ref	Telematics CANBUS Extension Kit	
	1001254390	Ref	Telematics CANBUS Kit (CE) (ANSI Export, CE)	
	1001199333	Ref	Telematics - Long Roof Cap Kit (ANSI, ANSI Export, CSA)	
	1001199334	Ref	Telematics - Short Roof Cap Kit (ANSI, ANSI Export, CSA)	
	1001265378	Ref	Telematics Single CAN Kit (N.A) (ANSI Export, CE)	
		Ref	Tires:	
	1001274257	Ref	Tire Set, Solid 13x28 Dir	
	1001263075	Ref	Tire Set, Pneumatic Turf	
	1001274302	Ref	Tire Set, Solid 13x28 Non-Dir	
	1001274305	Ref	Tire Set, Solid 14x28 Dir	
	1001274307	Ref	Tire Set, Solid 14x28 Non-Dir	
	1001274718	Ref	Tire Set, Solid 13x24 Dir	
	1001274721	Ref	Tire Set, Solid 14x24 Dir	
	1001239961	Ref	TMH Fire Extinguisher Kit	
		Ref	Tools for Service	
	1001249695	Ref	Analyzer & Cable Kit	
	1001249941	Ref	Analyzer & Cable Kit (Battery Powered)	
	1001137005	Ref	Cable Kit, Software	
	7002821	Ref	Crimper, Wire	
	7002823	Ref	Pin Extractor - Universal (For Electrical Connectors with Pins and Sockets)	
	4460510	Ref	Pin Extractor - 12-14 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	4460467	Ref	Pin Extractor - 16-18 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	7016654	Ref	Screwdriver, Magnetic	
	7002822	Ref	Screwdriver, Potentiometer	
	7004275	Ref	Seal Tool 1in (For Cylinders)	
	7004276	Ref	Seal Tool 1-1/2in (For Cylinders)	
	7002828	Ref	Stripper, Wire	
	1001199380	Ref	Top Cab Guard Kit	
	1001199382	Ref	Top & Front Cab Guard Kit	
	1001262959	Ref	Voltage Regulator ClearSky Locate Kit	
	1001208645	Ref	Wear Pad Kit	
	1001277408	Ref	Window Latch Replacement Kit	
		Ref	Worklights:	
	1001209981	Ref	Boom Worklights Kit	

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	1001235921	Ref	LED Worklight Kit	
	1001208847	Ref	Worklights Kit	

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