JERR-DAN

Illustrated Parts Manual

JD 50-60TON ROTATOR

SN 0230012656 to Present

5376000337

December 17, 2024 - Rev B

English (en-US)

REVISION LOG

October 1, 2024 - A - Original Issue of Manual (Edited to B/M 1001195086 Revision N to R)
December 17, 2024 - B - Revised Manual (Edited to B/M 1001195086 Revision N to R)

GENERAL INFORMATION

JerrDan, LLC (Jerr-Dan) strives to provide information that is accurate, complete and useful. Descriptions and illustrative material contained within this manual are as accurate as known at the time of publication and are subject to change, without notice, as a result of continuous product improvements. Jerr-Dan reserves the right to amend the information in this document at any time without prior notice.

Information contained in this manual reflects how this vehicle was built at the factory. Modifications or additions by the distributor or owner are not reflected in this manual.

This parts manual does not include service parts information for the commercial chassis (IHC, Ford, GM, etc.). That information is provided by the chassis manufacturer.

When ordering parts, please refer to your unit's Serial Number and Model Number. This information is be found on the aluminum tag riveted to the inside of the driver's side rear compartment of the main body.



Additional or replacement manuals can be ordered by calling Jerr-Dan Parts at 717-597-7111. Price and availability will be quoted at time of the request.

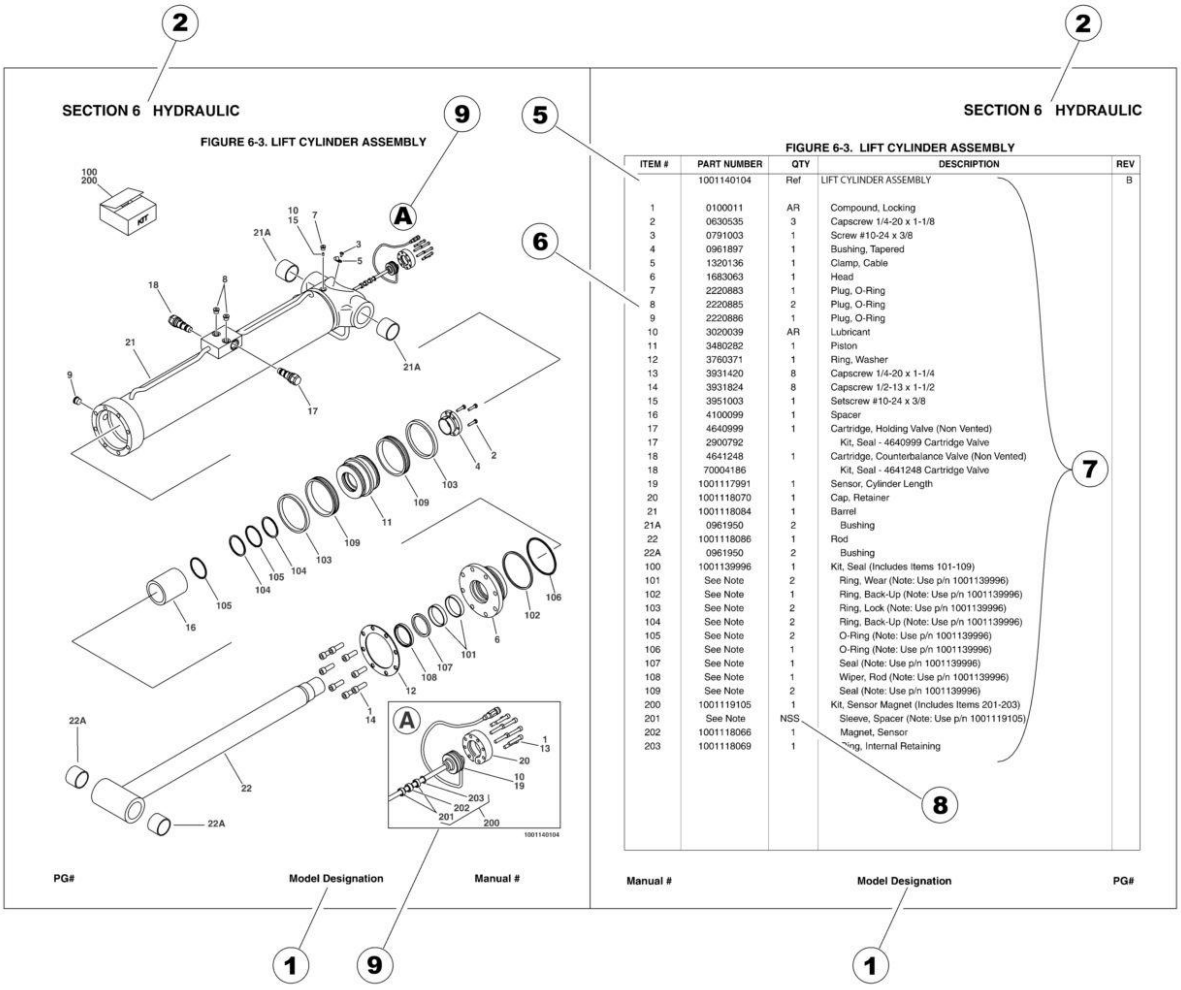
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Manufactured under one or more of the following patents: 5,575,606; 5,672,042; 5,697,741; 5,713,714; 5,722,810; 5,782,596; 5,839,775 and 6,315,515 B1 with other Patents Pending.

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GENERAL INFORMATION



1) MACHINE IDENTIFICATION

Machines are identified by model and in some cases a combination of models, serial number (SN) or regional standard (i.e ANSI, CE,CSA). Components may also be identified by SN or manufacturer. Common components that may be identified by these characteristics are engines and hydraulic components.

2) PARTS MANUAL ORGANIZATION

Product information in this manual is organized under section titles. Subframe, 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) BUILD DOCUMENTS (NOT SHOWN)

The Build Documents, located near the end of the manual, reference components not available at the purchase level. These PNs list assembly instructions and assist in the maintenance of the parts manual.

GENERAL INFORMATION

5) 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.

6) 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.

7) INDENTED PARTS DESCRIPTION

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

8) ABBREVIATION AND SYMBOLS

AC..... Alternating Current
ALUM.....Aluminum
AG.....Agricultural
ANSI.....American National Standards Institute
AR.....As Required
AUS.....Australias
ASSY..... Assembly
AUX.....Auxiliary
AWG.....American Wire Gauge
CA.....Cab To Axle
CE.....European Conformity
CCW.....Counter Clockwise
CM.....Centimeter
CT .....Cab To Tandem
CW.....Clockwise
CSA.....Canadian Standards Association
CYL.....Cylinder
DIA.....Diameter
DC.....Direct Current
DOT.....Department of Transportation
EMS..... Emergency Stop
ENG.....Engine
FT(ft) .....Feet
GA(Ga).....Gauge
GAL.....Gallons
GVW.....Gross Vehicle Weight
HD.....Heavy Duty
HYD.....Hydraulic
Hz.....Hertz
ID.....Inside Diameter
IN.....inches
IND.....Independent
IRL.....Independent Reach/Lift
INT.....Integrated
ISO..... International Organization for Standards
JIC.....Joint Industry Council
KG.....Kilogram
L.....Liter
LD.....Light Duty
LB(LBS).....Pounds
LCD..... Liquid Crystal Display
LED..... .Light Emitting Diodes
LH.....Left Hand
M(m).....Metric/Meter
MD.....Medium Duty
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
PTO.....Power Take Off
QT(qt.). .....Quarts
QTY.....Quantity
REF.....Reference
REV.....Revision Level
RH.....Right Hand
SAE.....Society of Automotive Engineers
SD.....Standard Duty
SN..... ..Serial Number
SPEC(S).....Specifications
SS.....Stainless Steel
STD.....Standards
STL.....Steel
UGM.....Universal Ground Module
V.....Volts
W.....Watts
WB.....Wheel Base
#.....Number

9) 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, Jerr-Dan Corporation reserves the right to make specification changes without prior notification. Contact Jerr-Dan for updated information.

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SECTION 1 - SUBFRAME

FIGURE 1-1. SUBFRAME INSTALLATION

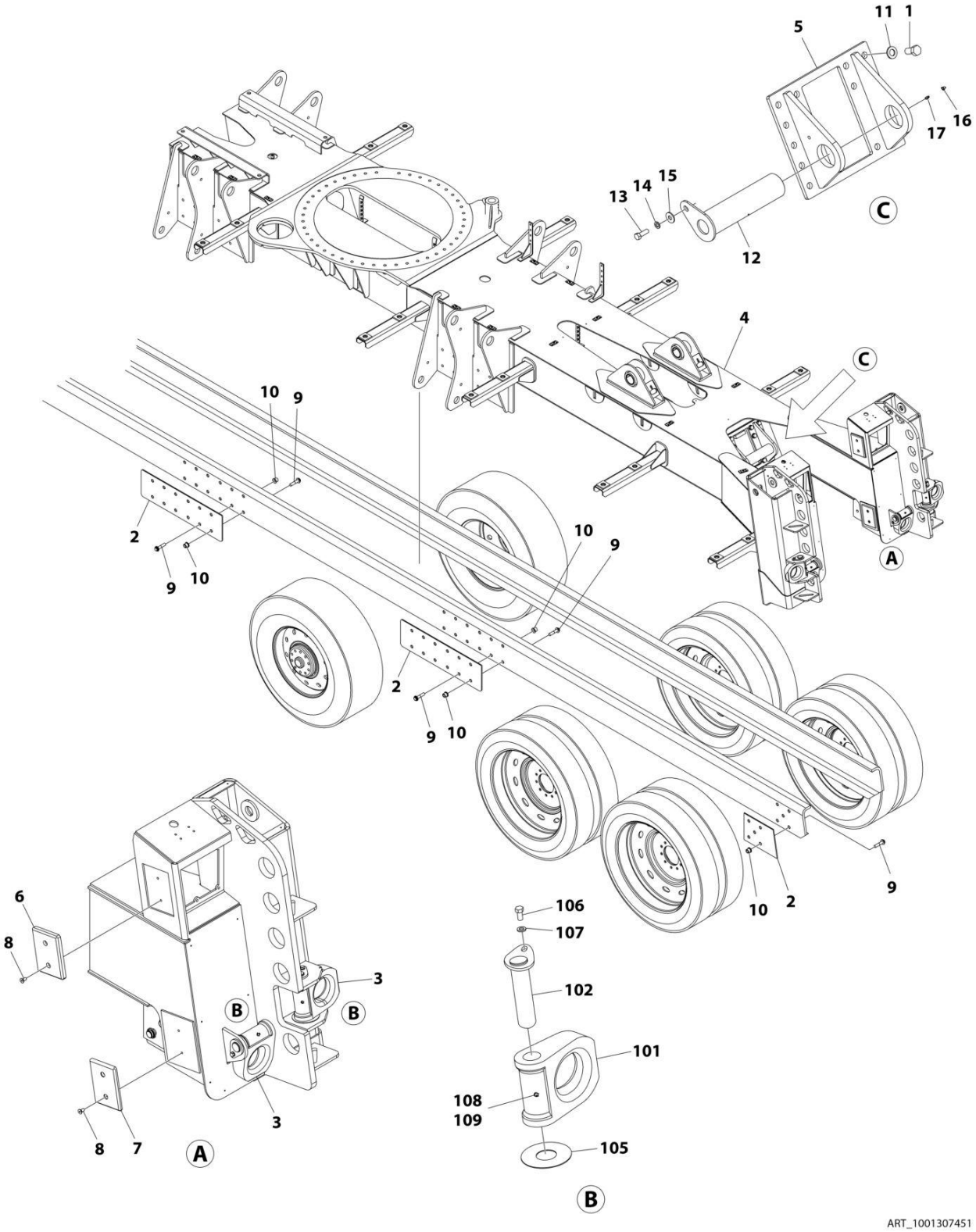


FIGURE 1-1. SUBFRAME INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307451	Ref	SUB-FRAME INSTALLATION	A
1	0682212	16	Bolt 3/4 x 1-1/2	
2	1001129786	1	Kit, Shim	
2	1001129777	4	Shim (Front)	
2	1001129778	2	Shim (Rear)	
3	1001133062	Ref	D-Ring Installation (See Items 101-109)	
4	1001227474	1	Sub-Frame	
5	1001133286	1	Bracket, Lift Cylinder Support	
6	4679000127	2	Pad	
7	4679000245	2	Pad	
8	7115160623	8	Screw 3/8 x 3/4	
9	7120000062	58	Huckbolt	
10	7283000006	58	Collar Huck	
11	7950220141	16	Washer 3/4	
12	1001133289	1	Pin	
13	7115181250	1	Bolt 1/2 x 1-1/2	
14	7950180000	1	Washer 5/8	
15	7950180161	1	Washer 1/2	
16	7253000002	1	Cap, Grease	
17	7440030000	1	Fitting, Grease	
	1001133062	Ref	D-RING INSTALLATION	C
101	4754000004	4	D-Ring	
102	3691000174	4	Pin	
105	4949000055	2	Washer	
106	7115160650	4	Bolt 3/8 x 2	
107	7950160000	4	Washer 3/8	
108	7440030000	4	Fitting, Grease	
109	7253000002	4	Cap, Grease	

FIGURE 1-2. OUTRIGGER/STABILIZER INSTALLATION - EXTENDED

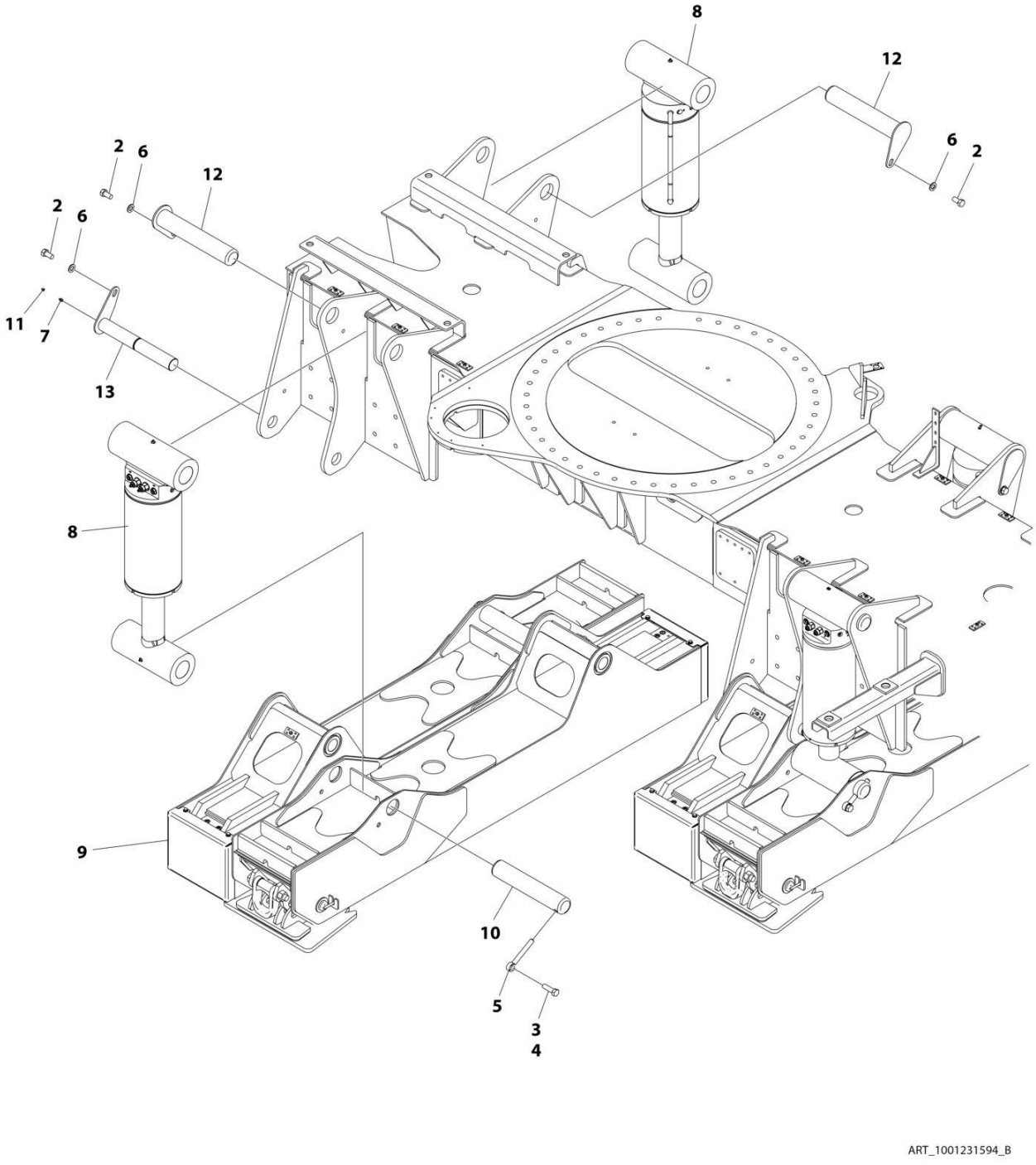


FIGURE 1-2. OUTRIGGER/STABILIZER INSTALLATION - EXTENDED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231594	Ref	S130 OUTRIGGER/STABILIZER INSTALLATION - EXTENDED	B
2	0682212	8	Bolt 3/4 x 1-1/2	
3	0682220	4	Bolt 3/4 x 2-1/2	
4	3272201	4	Nut 3/4	
5	3841287	4	Keeper Rod	
6	4712200	8	Washer 3/4	
7	88671001	4	Fitting, Grease	
8	1001284480	4	Outrigger/Stabilizer Lift Cylinder (See Separate Breakdown in this Section)	
9	1001179131	4	Outrigger/Stabilizer Assembly - Extended (See Separate Breakdown in this Section)	
10	1001179153	4	Pin	
11	7253000002	4	Cap, Grease Fitting	
12	3691000227	4	Pin	
13	3691000228	4	Pin	

FIGURE 1-3. OUTRIGGER/STABILIZER ASSEMBLY - EXTENDED

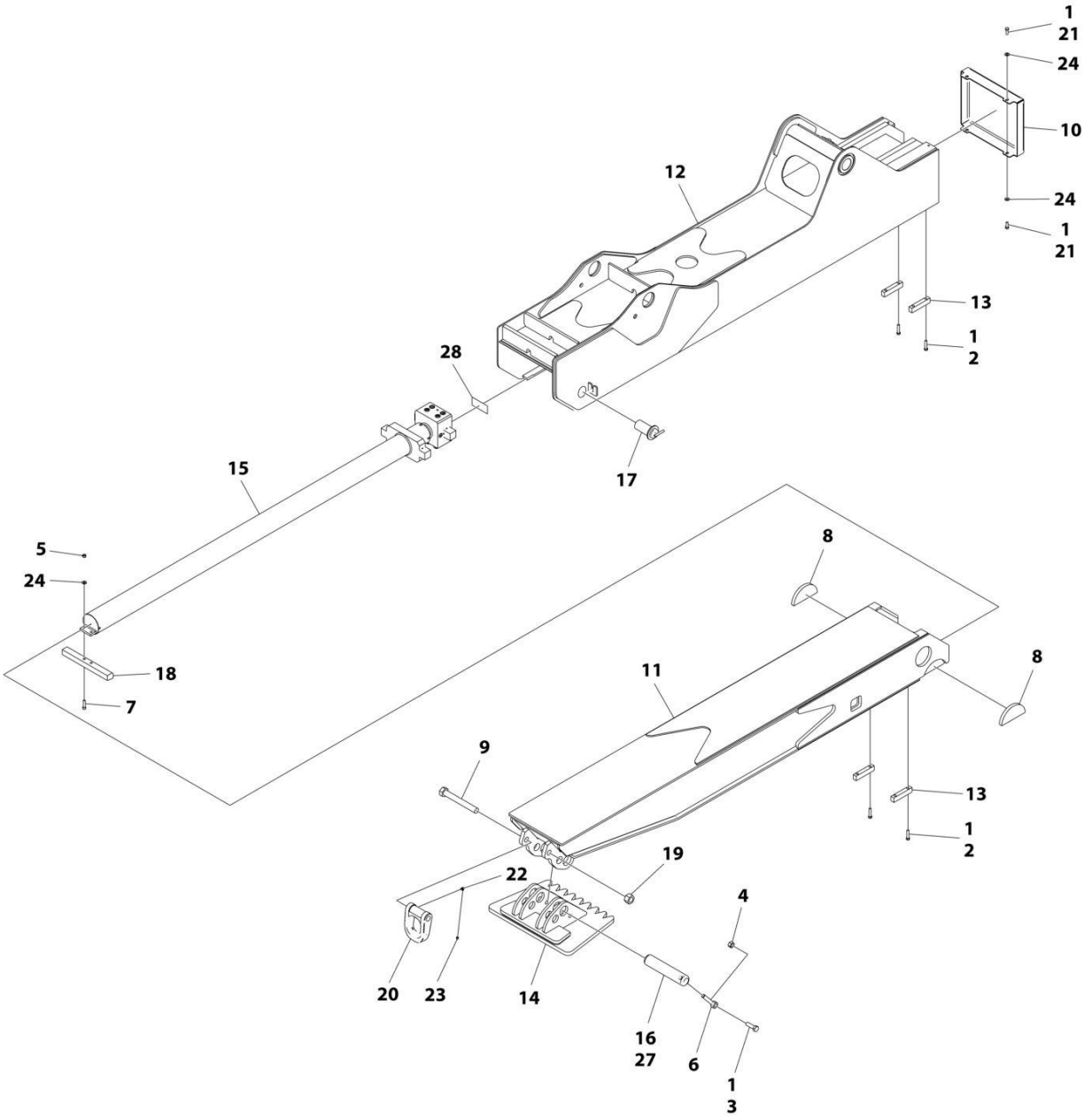


FIGURE 1-3. OUTRIGGER/STABILIZER ASSEMBLY - EXTENDED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179131	Ref	OUTRIGGER/STABILIZER ASSEMBLY - EXTENDED	D
1	1001095650	AR	Compound locking	
2	0641614	8	Bolt 3/8 x 1-3/4	
3	0682016	1	Bolt 5/8 x 2	
4	3272001	1	Nut 5/8	
5	3311605	2	Nut 3/8	
6	3841258	1	Keeper	
7	3931624	2	Screw 3/8 x 1-1/2	
8	1001135667	2	Pad	
9	1001154786	1	Bolt 1 x 8	
10	1001178692	1	Panel	
11	1001178865	1	Inner Stabilizer Weldment	
12	1001178867	1	Outer Stabilizer Weldment	
13	1001179003	4	Retainer	
14	1001179129	1	Pad	
15	1001179132	1	Outrigger/Stabilizer Extension Cylinder (See Separate Breakdown in this Section)	
16	1001179143	1	Pin	
17	1001179160	1	Pad	
18	1001179170	1	Pad	
19	3272605001	1	Nut	
20	4754000006	1	D-Ring	
21	7114160850	4	Bolt 3/8 x 1	
22	7253000002	1	Grease Cap	
23	7440030400	1	Grease Fitting	
24	7950160143	6	Washer 3/8	
25	3691000223	1	Pin (Not Shown)	
26	7691000048	1	Snap Pin (Not Shown)	
27	3020029	AR	Grease	
28	1001158844	1	Decal	

FIGURE 1-4. OUTRIGGER/STABILIZER EXTENSION CYLINDER

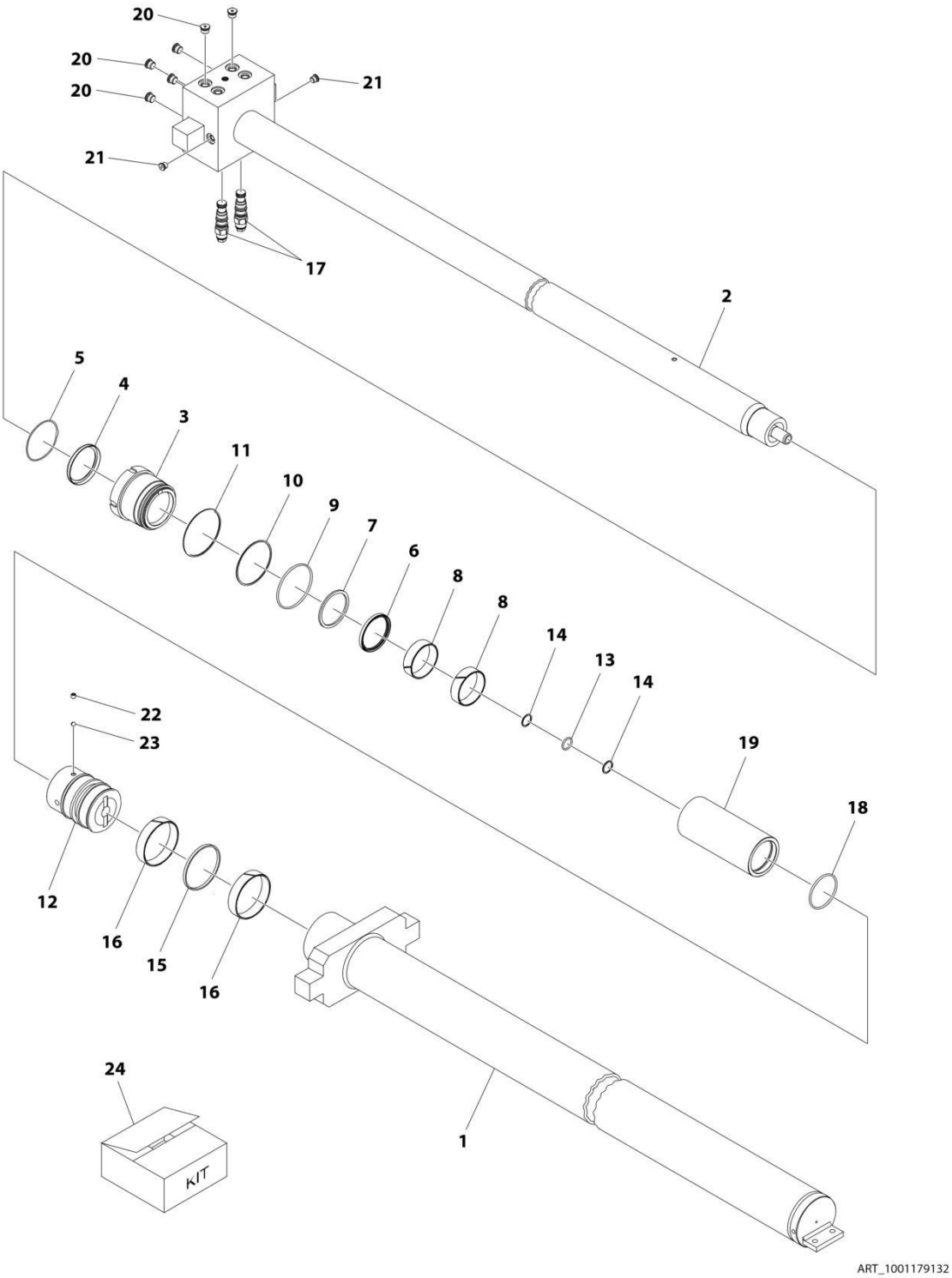
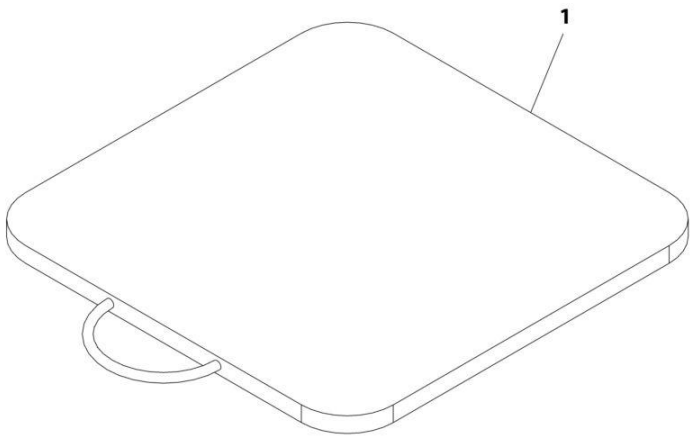


FIGURE 1-4. OUTRIGGER/STABILIZER EXTENSION CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179132	Ref	Stabilizer Extend Cylinder	C
1	70050791	1	Barrel Weldment	
2	70050792	1	Rod Weldment	
3	70050793	1	Cap	
4	70050794	1	Seal, Wiper	
5	70050795	1	Retaining Ring	
6	70050796	1	Seal, Rod	
7	70050797	1	Seal, Backup Ring	
8	70050798	2	Wear Ring	
9	70050799	1	Seal, O-Ring	
10	70050800	1	Ring, Backup	
11	70050801	1	Seal, Ring	
12	70050802	1	Piston	
13	70050803	1	Seal, O-Ring	
14	70050804	2	Ring, Backup	
15	70050805	1	Seal, Piston	
16	70050806	2	Wear Ring	
17	70050807	2	Counter Balance	
18	70050808	1	Seal, O-Ring	
19	70050809	1	Spacer	
20	70023371	6	Plug	
21	70023370	2	Plug	
22	70022563	1	Set Screw, M8 x 1-1/4	
23	70022564	1	Steel Ball	
24	70050810	1	Seal Kit	

FIGURE 1-5. OUTRIGGER PADS INSTALLATION



ART_1001231633

FIGURE 1-5. OUTRIGGER PADS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231633	Ref	OUTRIGGER PADS INSTALLATION	A
1	1001166386	6	Pad, Outrigger	

FIGURE 1-6. CYLINDER ASSEMBLY - OUTRIGGER LIFT

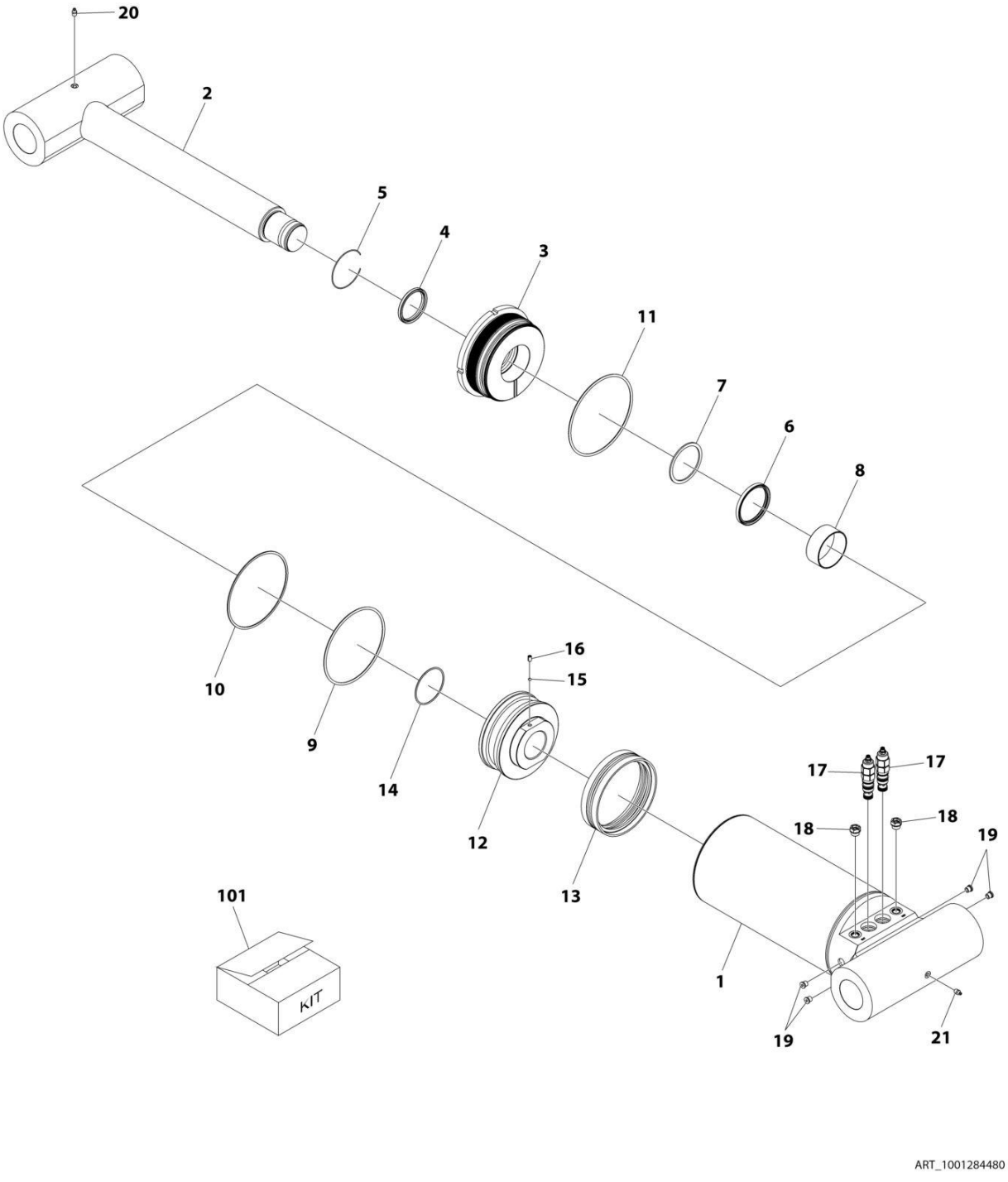


FIGURE 1-6. CYLINDER ASSEMBLY - OUTRIGGER LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284480	Ref	CYLINDER ASSEMBLY - OUTRIGGER LIFT	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70070208	1	Rod	
3	70070209	1	Gland	
4	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
5	70023380	1	Ring, Retaining	
6	See Note	NSS	Seal, Rod (Note: Use Item 101)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
8	70007423	1	Bearing	
9	See Note	NSS	O-Ring (Note: Use Item 101)	
10	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
11	See Note	NSS	O-Ring (Note: Use Item 101)	
12	70070210	1	Piston	
13	See Note	NSS	Seal, Piston (Note: Use Item 101)	
14	See Note	NSS	O-Ring (Note: Use Item 101)	
15	70022564	1	Ball, Steel	
16	70029468	1	Screw, Set	
17	70053123	2	Valve, Counterbalance	
18	70070071	2	Plug	
19	2220883	4	Plug	
20	70029469	1	Grease Nipple	
21	70023376	1	Grease Nipple	
101	70053188	1	Seal Kit (Includes 4, 6, 7, 9-11, 13, 14)	

FIGURE 1-7. SLEW BEARING INSTALLATION

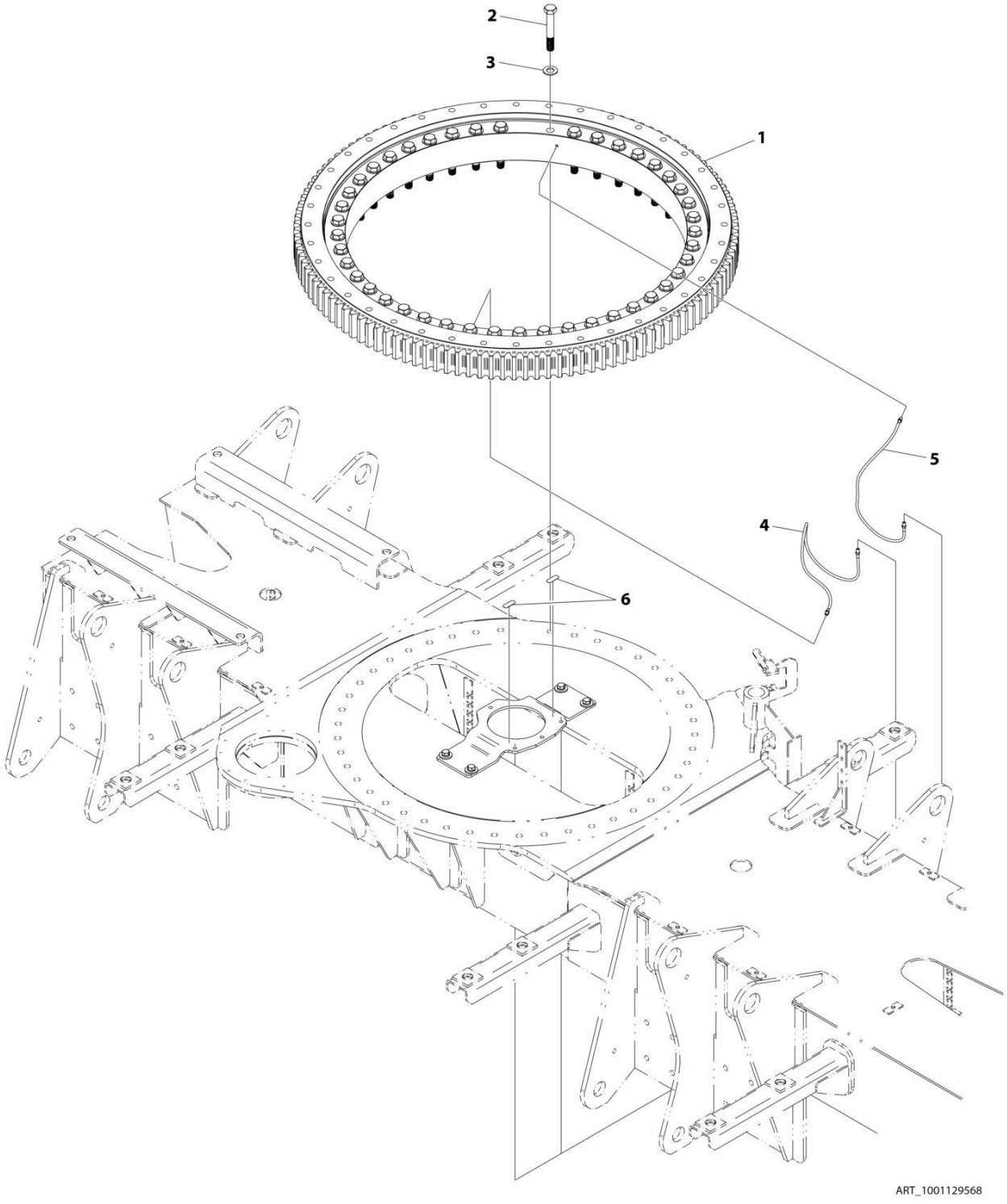


FIGURE 1-7. SLEW BEARING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129568	Ref	Slew Bearing Installation	C
1	1001127316	1	Bearing	
2	0682652	44	Capscrew 1 x 6-1/2	
3	10701259	44	Washer	
4	1001136692	1	Hose, Grease	
5	1001118961	1	Hose, Grease	
6	1001131060	2	Decal, Bearing Grease	

FIGURE 1-8. SLEW DRIVE INSTALLATION

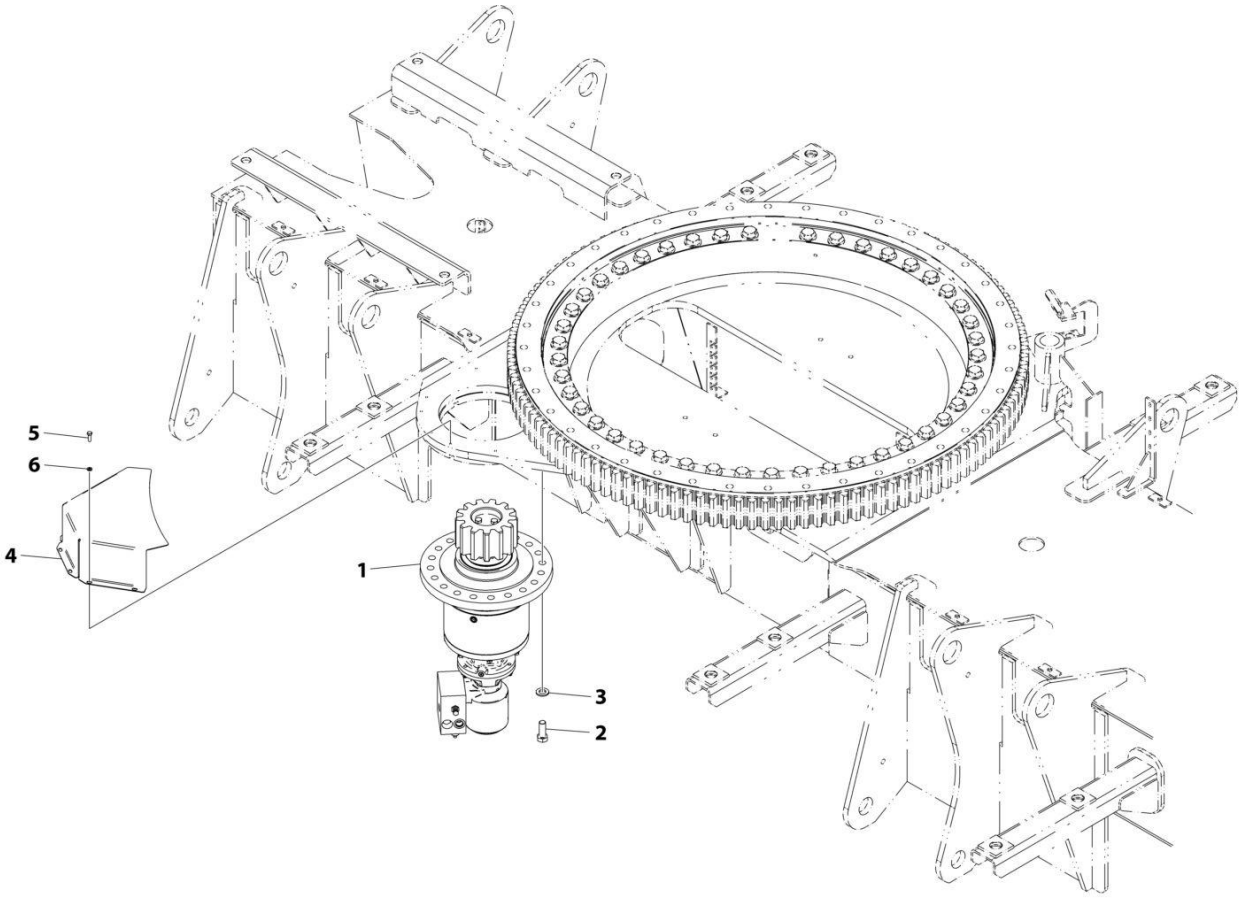


FIGURE 1-8. SLEW DRIVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130483	Ref	Slew Drive Installation	B
1	1001127324	1	Motor, Planetary Gear Assembly	
2	7118221650	10	Capscrew 3/4 x 2	
3	7950220142	10	Washer 3/4	
4	1001130840	1	Cover	
5	7115150850	6	Capscrew 1/3	
6	7950150000	6	Lockwasher 1/3	

FIGURE 1-9. SWIVEL INSTALLATION

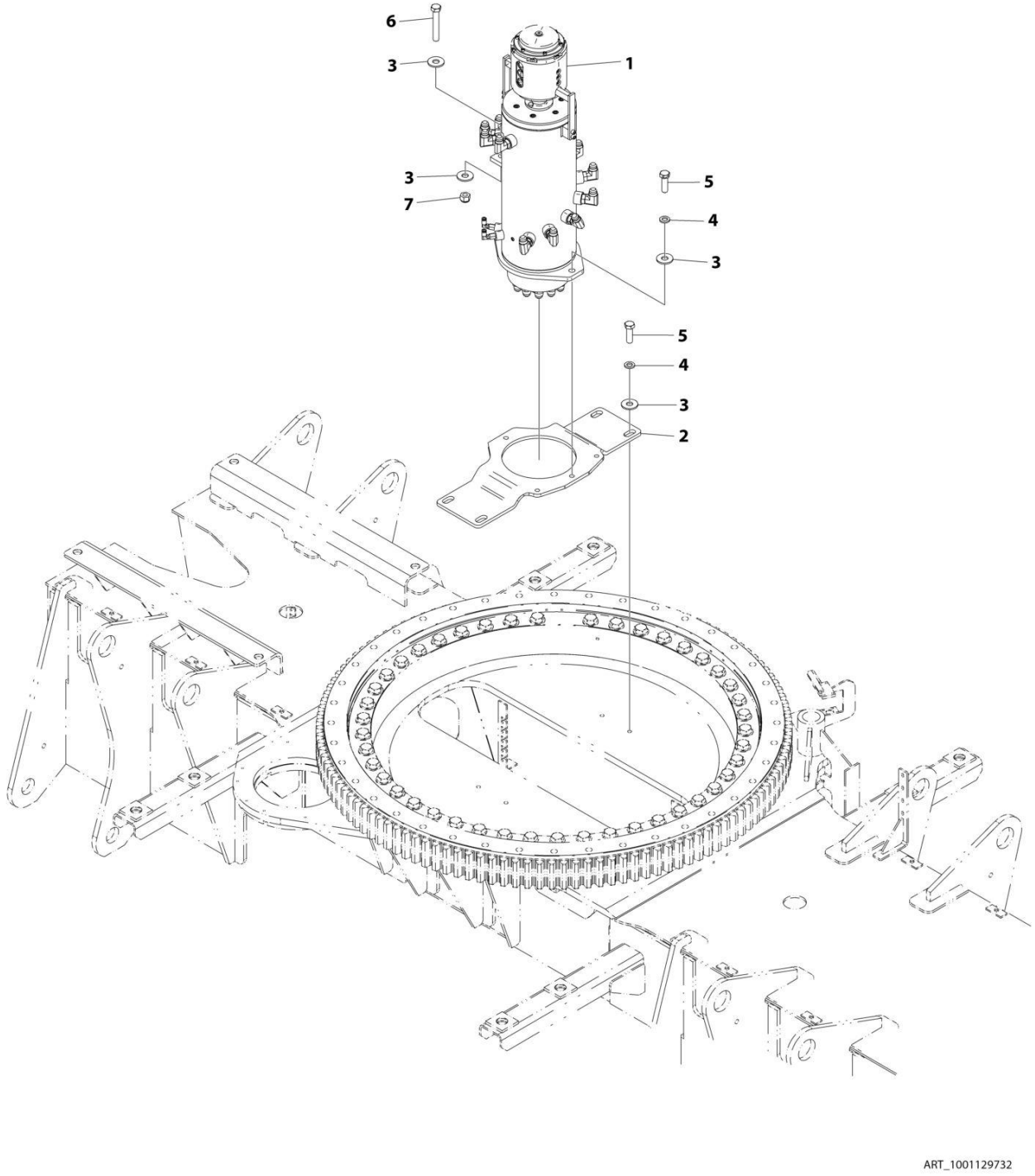


FIGURE 1-9. SWIVEL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129732	Ref	Swivel Installation	C
1	1001129628	1	Swivel Assembly, Hydraulic/Electric (See Separate Breakdown in this Section)	
2	1001129987	1	Bracket	
3	7950200161	8	Washer 5/8	
4	7950200000	6	Lockwasher 5/8	
5	7115201650	6	Capscrew 5/8 x 2	
6	7115203250	1	Capscrew 5/8 x 4	
7	7660202601	1	Nut 5/8	

FIGURE 1-10. SWIVEL ASSEMBLY, HYDRAULIC/ELECTRIC

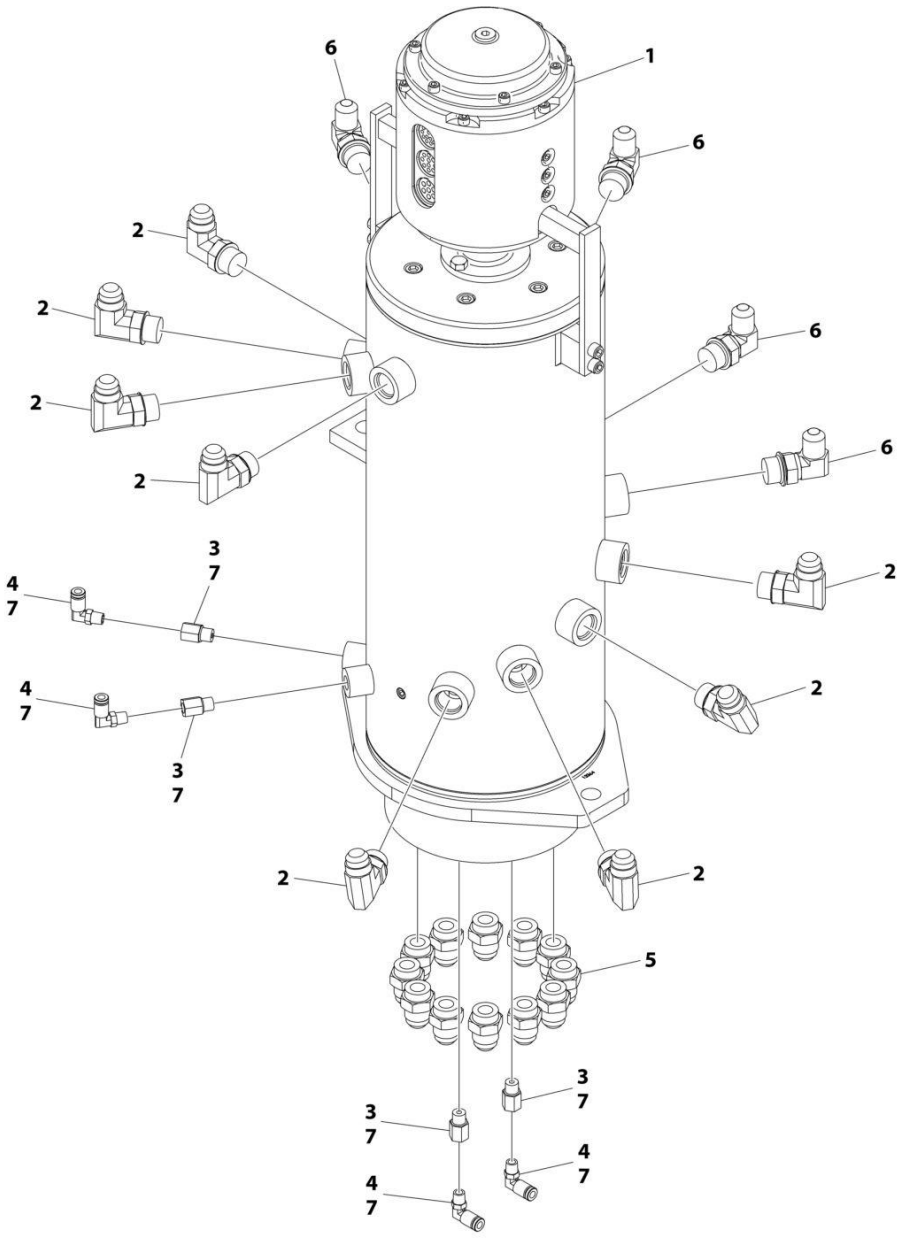


FIGURE 1-10. SWIVEL ASSEMBLY, HYDRAULIC/ELECTRIC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129628	Ref	SWIVEL ASSEMBLY, HYDRAULIC/ELECTRIC	D
1	1001232530	1	Hydraulic/Electric Swivel	
2	7445101045	8	Fitting, 90	
3	7443000414	4	Fitting, Straight	
4	7443000173	4	Fitting, 90	
5	7445101043	12	Fitting, Straight	
6	7445081045	4	Fitting, 90	
7	0100075	AR	Compound locking	

FIGURE 1-11. TURNTABLE INSTALLATION

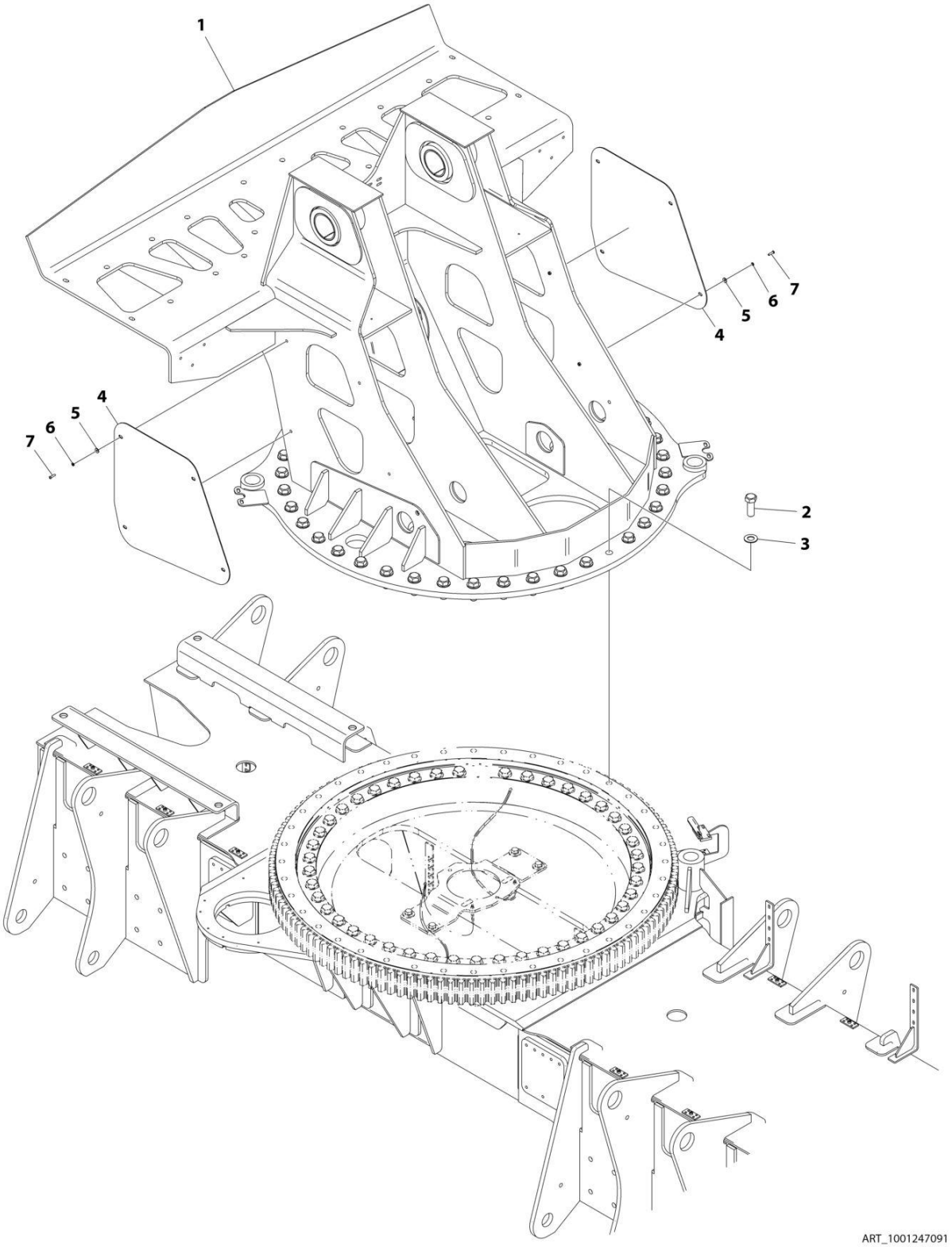


FIGURE 1-11. TURNTABLE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247091	Ref	TURNTABLE INSTALLATION	A
1	1001246673	1	Turntable	
2	0682622	40	Bolt 1 x 2-3/4, Grd8	
3	10701259	40	Washer 1	
4	1001134239	2	Cover, Panel	
5	7950140163	8	Washer 1/4	
6	7950140003	8	Washer 1/4	
7	7114140818	8	Screw 1/4 x 1	
8	8481460009	AR	Lubricate (Not Shown)	

FIGURE 1-12. TAILBOARDS INSTALLATION

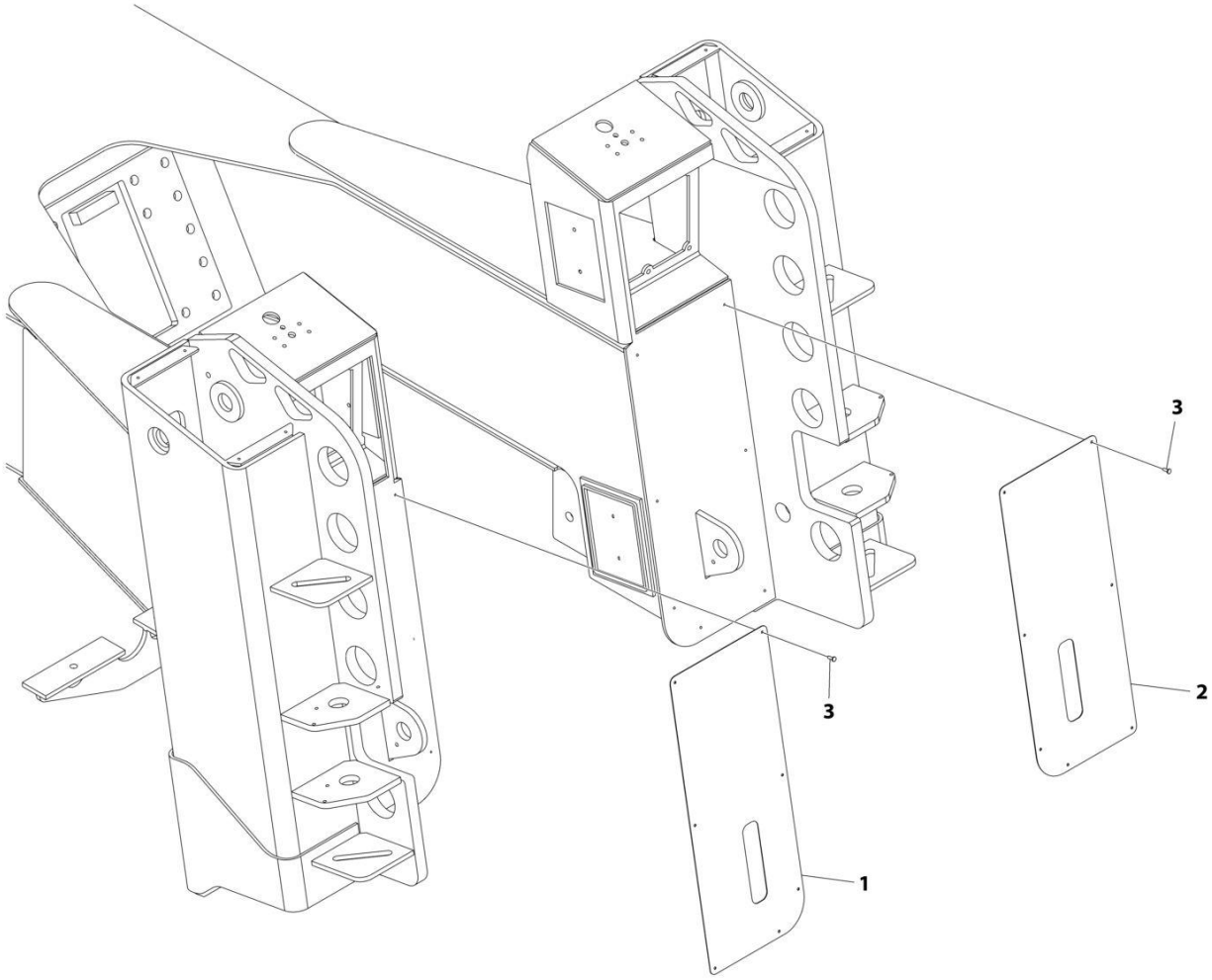


FIGURE 1-12. TAILBOARDS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129901	Ref	Tailboards Installation	
1	1001129885	1	Plate, Tailboard LH	
2	1001129886	1	Plate, Tailboard RH	
3	7759000018	14	Rivet	

SECTION 2 - BOOM

SECTION 2 - BOOM

FIGURE 2-1. WRECKER BOOM INSTALLATION - 3 PIECE

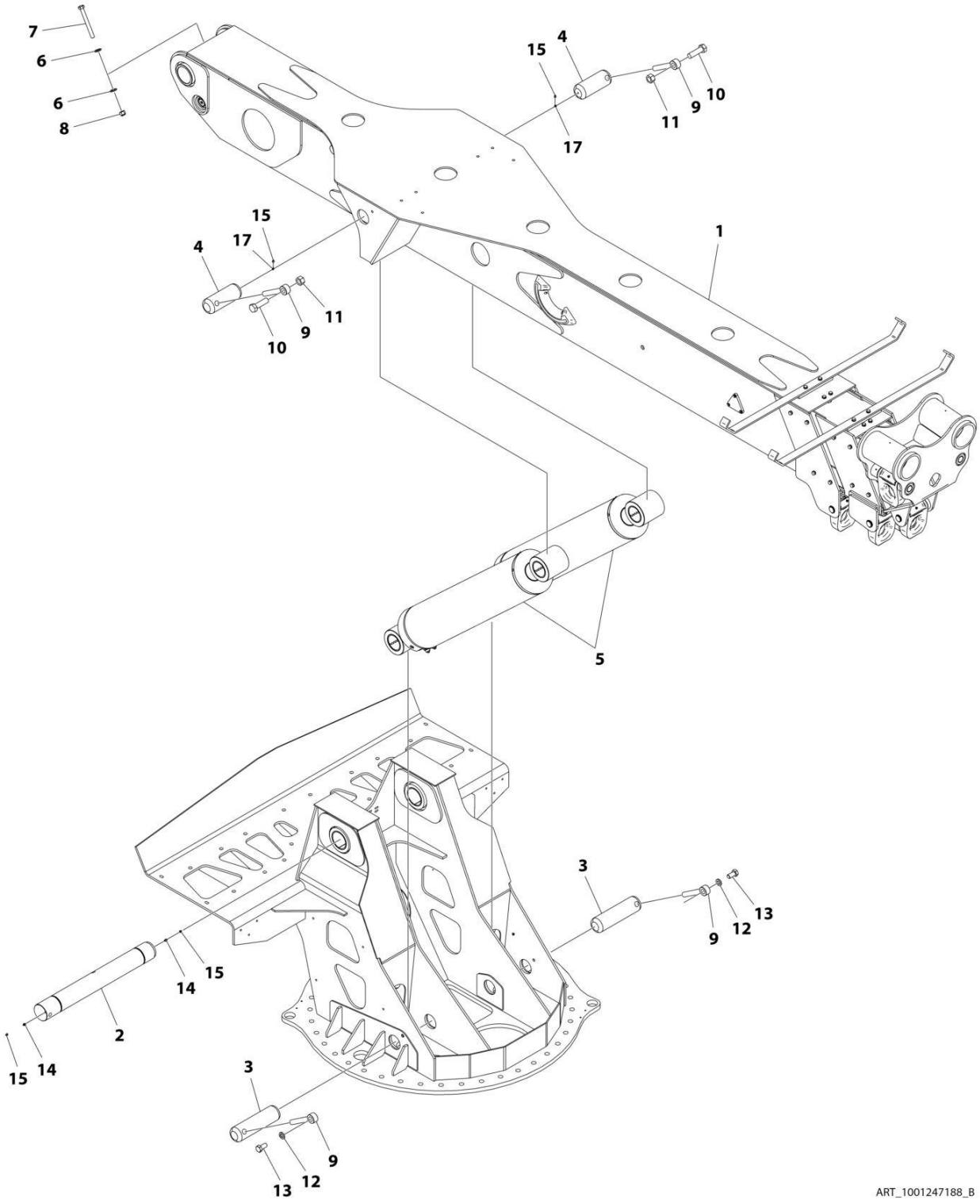


FIGURE 2-1. WRECKER BOOM INSTALLATION - 3 PIECE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247188	Ref	Wrecker Boom Installation - 3 Piece	B
1	1001247290	1	Boom Assembly, 3 Piece (See Separate Breakdown in this Section)	
2	4691000556	1	Pin	
3	1001246015	2	Pin	
4	1001246076	2	Pin	
5	1001284479	2	Lift Cylinder Assembly (See Separate Breakdown in this Section)	
6	4712200	2	Washer 3/4	
7	7118225650	1	Capscrew 3/4 x 7	
8	7660222601	1	Nut 3/4	
9	3841356	4	Rod, keeper	
10	0682622	2	Capscrew 1 x 2-3/4	
11	3272605	2	Nut	
12	4762600	2	Washer	
13	0682620	2	Capscrew 1 x 2-1/2	
14	7440000000	2	Fitting, Grease	
15	7253000002	4	Cap, Grease	
16	1001172491	1	Strap Cable (Not Shown)	
17	88671027	2	Fitting, Grease	

SECTION 2 - BOOM

FIGURE 2-2. WRECKER BOOM ASSEMBLY - HDR 1000

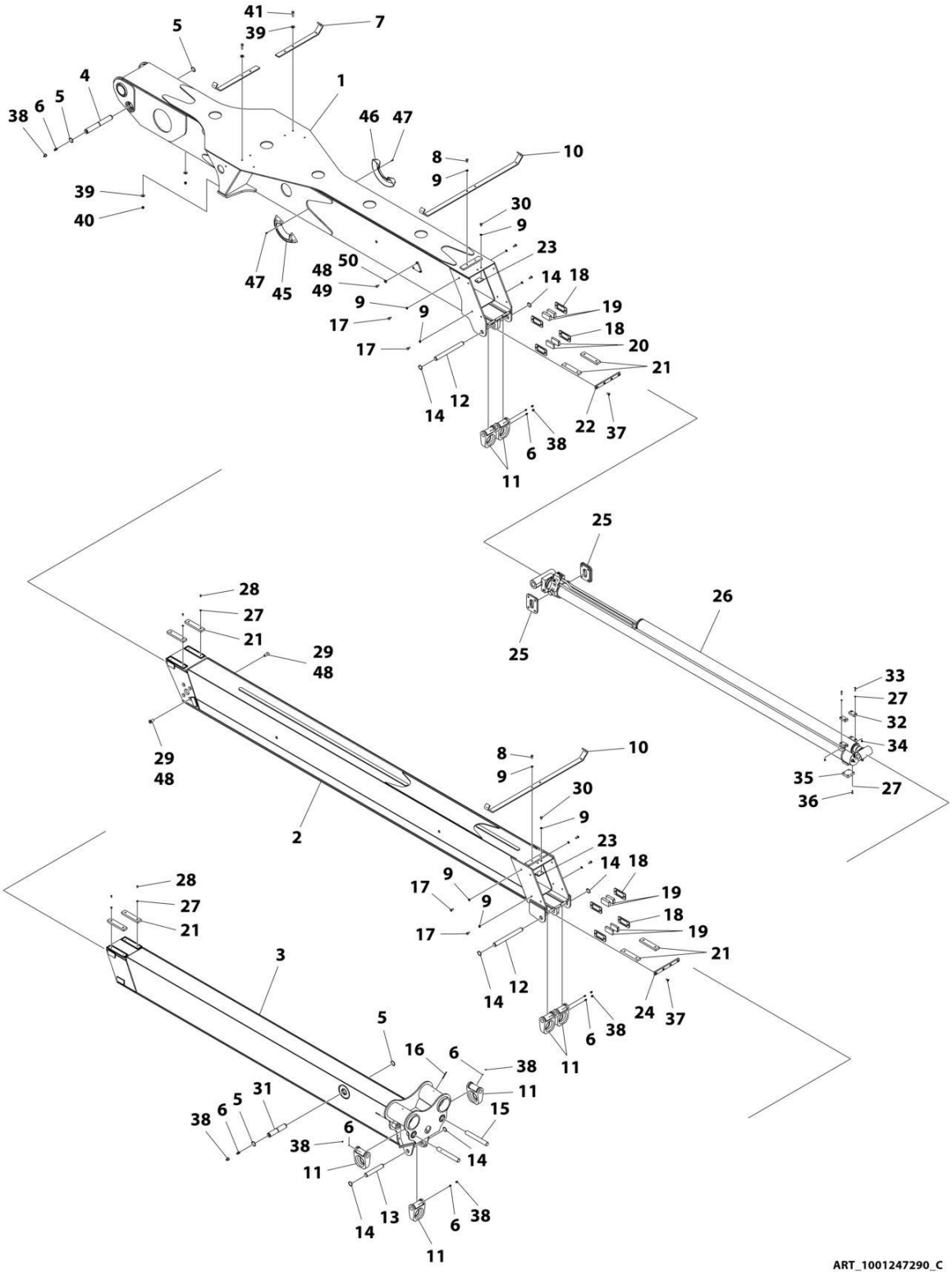


FIGURE 2-2. WRECKER BOOM ASSEMBLY - HDR 1000

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247290	Ref	WRECKER BOOM ASSEMBLY	A
1	1001247320	1	Boom Weldment, Base Section	
2	1001127841	1	Boom Weldment, Mid Section	
3	1001127836	1	Boom Weldment, Fly Section	
4	4691000417	1	Pin	
5	7754000055	4	Retaining Ring	
6	88671008	9	Grease Fitting	
7	4062000522	2	Bar	
8	0641808	4	Bolt 1/2 x 1	
9	4761800	24	Washer 19/32	
10	4062000589	2	Bar	
11	4754000004	7	D-Ring	
12	1001129006	2	Pin	
13	1001129393	1	Pin	
14	7754000033	6	Retaining Ring	
15	4691000285	2	Pin	
16	7690144840	2	Pin, Spring	
17	7108180850	16	Bolt 1/2 x 1	
18	4178000811	8	Bracket	
19	4679000314	6	Pad	
20	4679000313	2	Pad	
21	4679000140	8	Pad	
22	1001129004	1	Plate	
23	4062000715	2	Bar	
24	1001129005	1	Plate	
25	3706000241	2	Plate Weldment	
26	1001286142	1	Extension Cylinder Assembly (See Separate Breakdown in this Section)	
27	4761400	16	Washer 1/4	
28	7118140427	8	Bolt 1/4 x 1/2	
29	7120000040	8	Bolt 3/4 x 2	
30	0641806	4	Bolt 1/2 x 3/4	
31	4691000416	1	Pin	
32	4679000319	2	Pad	
33	7114141218	4	Bolt 1/4 x 1-1/2	
34	7660142601	4	Nut 1/4	
35	4679000326	1	Pad	
36	7114140818	4	Bolt 1/4 x 1	
37	7118180820	8	Bolt 1/2 x 1	
38	7253000002	9	Grease Fitting Cap	
39	4751800	4	Washer 1/2	
40	7660182601	4	Nut 1/2	
41	7115181423	4	Capscrew 1/2 x 1-3/4	
43	1001131198	1	Decal (Not Shown)	
44	1001151805	2	Decal (Not Shown)	
45	7470000014	1	Gauge, Angle Indicator - LH	
46	7470000019	1	Gauge, Angle Indicator - RH	
47	7114100418	4	Capscrew #10 x 1/2	
48	1001095650	AR	Compound locking	
49	0641404	3	Bolt 1/4 x 1/2	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	4711400	3	Washer 1/4	

FIGURE 2-3. WRECKER BOOM INSTALLATION - 3 PIECE WITH AUXILIARY WINCHES

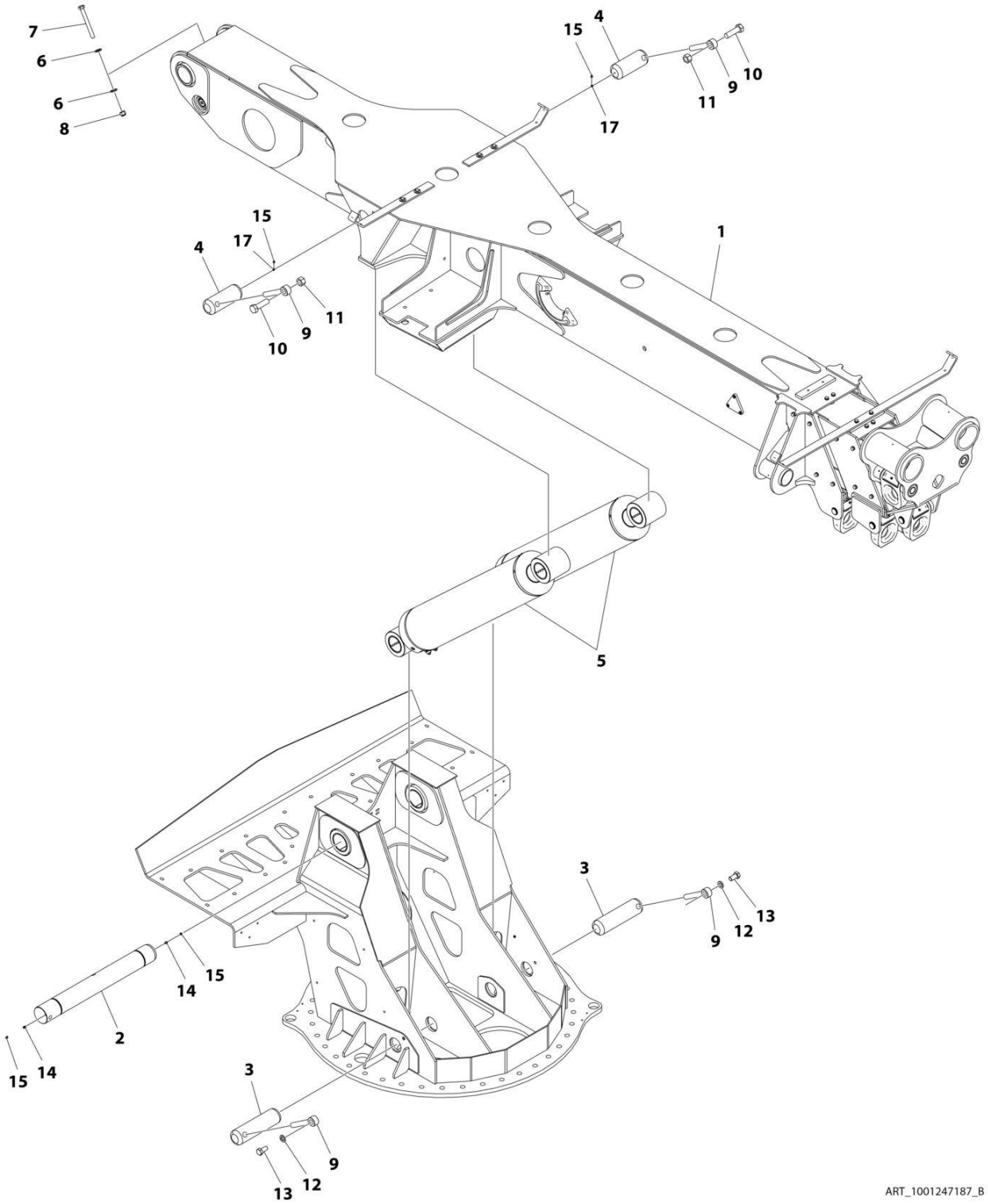


FIGURE 2-3. WRECKER BOOM INSTALLATION - 3 PIECE WITH AUXILIARY WINCHES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247187	Ref	WRECKER BOOM INSTALLATION - 3 PIECE WITH AUXILIARY WINCHES	B
1	1001247289	1	Boom Assembly, 3 Piece (See Separate Breakdown in this Section)	
2	4691000556	1	Pin	
3	1001246015	2	Pin	
4	1001246076	2	Pin	
5	1001284479	2	Lift Cylinder Assembly (See Separate Breakdown in this Section)	
6	4712200	2	Washer 3/4	
7	7118225650	1	Bolt 3/4 x 7	
8	7660222601	1	Nut 3/4	
9	3841356	4	Rod, Keeper	
10	0682622	2	Capscrew 1 x 2-3/4	
11	3272605	2	Nut	
12	4762600	2	Washer	
13	0682620	2	Capscrew 1 x 2-1/2	
14	7440000000	2	Fitting, Grease	
15	7253000002	4	Cap, Grease	
16	1001172491	1	Strap Cable (Not Shown)	
17	88671027	2	Fitting, Grease	

FIGURE 2-4. WRECKER BOOM ASSEMBLY - WITH AUXILIARY WINCH

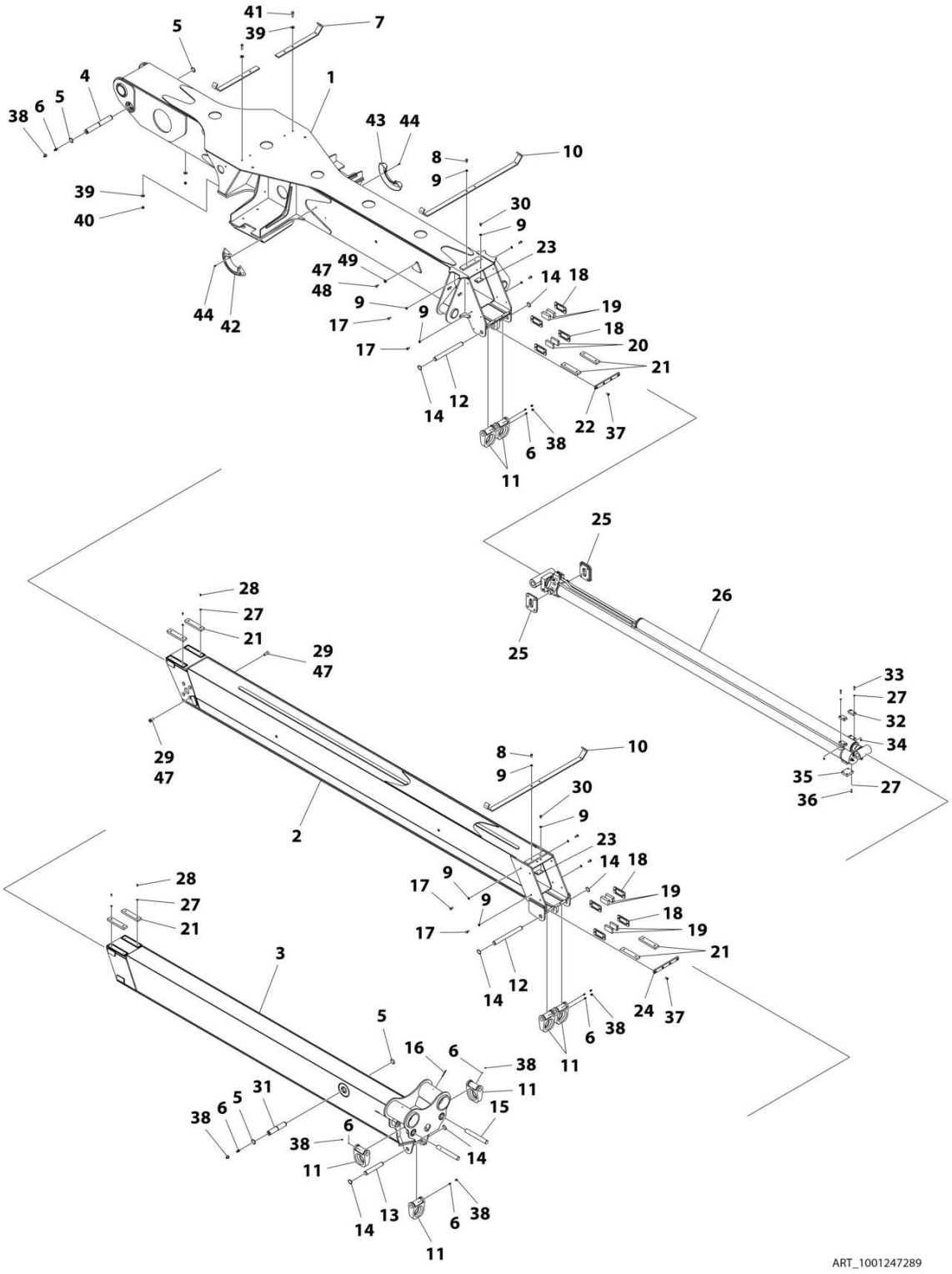


FIGURE 2-4. WRECKER BOOM ASSEMBLY - WITH AUXILIARY WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247289	Ref	WRECKER BOOM ASSEMBLY - WITH AUXILIARY WINCH	A
1	1001247318	1	Boom Weldment, Base Section	
2	1001127841	1	Boom Weldment, Mid Section	
3	1001127836	1	Boom Weldment, Fly Section	
4	4691000417	1	Pin	
5	7754000055	4	Retaining Ring	
6	88671008	9	Grease Fitting	
7	4062000522	2	Bar	
8	0641808	4	Bolt 1/2 x 1	
9	4761800	24	Washer 1/2	
10	4062000589	2	Bar	
11	4754000004	7	D-Ring	
12	1001129006	2	Pin	
3	1001129393	1	Pin	
14	7754000033	6	Retaining Ring	
15	4691000285	2	Pin	
16	7690144840	2	Pin, Spring	
17	7108180850	16	Bolt 1/2 x 1	
18	4178000811	8	Bracket	
19	4679000314	6	Pad	
20	4679000313	2	Pad	
21	4679000140	8	Pad	
22	1001129004	1	Plate	
23	4062000715	2	Bar	
24	1001129005	1	Plate	
25	3706000241	2	Plate Weldment	
26	7320000085	1	Extension Cylinder Assembly (See Separate Breakdown in this Section)	
27	4761400	16	Washer 1/4	
28	7118140427	8	Bolt 1/4 x 1/2	
29	7120000040	8	Bolt 3/4 x 2	
30	0641806	4	Bolt 1/2 x 3/4	
31	4691000416	1	Pin	
32	4679000319	2	Pad	
33	7114141218	4	Bolt 1/4 x 1-1/2	
34	7660142601	4	Nut 1/4	
35	4679000326	1	Pad	
36	7114140818	4	Bolt 1/4 x 1	
37	7118180820	8	Bolt 1/2 x 1	
38	7253000002	9	Grease Fitting Cap	
39	4751800	4	Washer 1/2	
40	7660182601	4	Nut 1/2	
41	7115181423	4	Capscrew 1/2 x 1	
42	7470000014	1	Gauge, Angle Indicator - LH	
43	7470000019	1	Gauge, Angle Indicator - RH	
44	7114100418	4	Capscrew #10 x 1/2	
45	1001151805	2	Decal (Not Shown)	
46	1001131198	1	Decal (Not Shown)	
47	1001095650	AR	Compound locking	
48	0641404	3	Bolt 1/4 x 1/2	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	4711400	3	Washer 1/4	

FIGURE 2-5. WRECKER BOOM EXTENSION CYLINDER

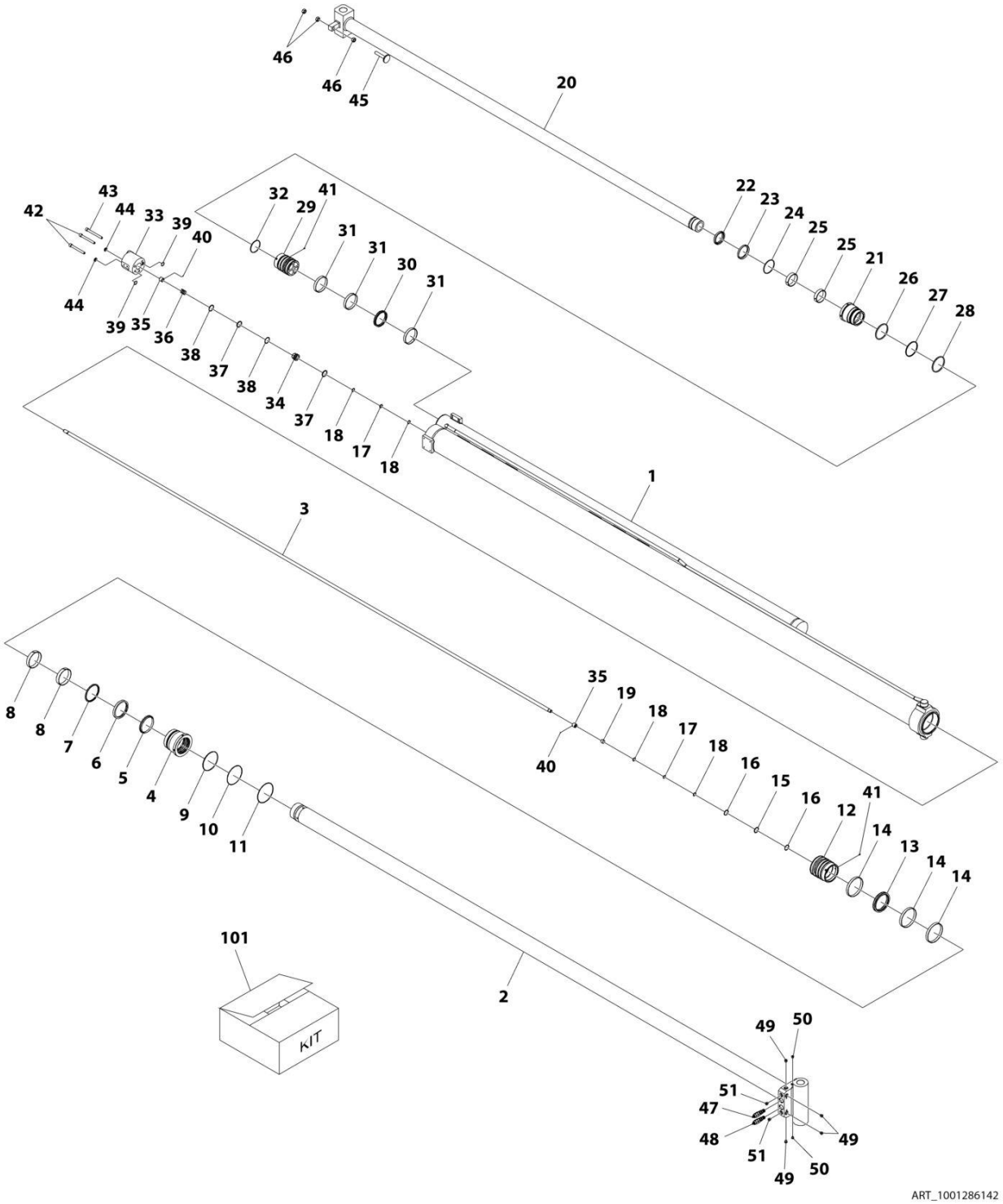


FIGURE 2-5. WRECKER BOOM EXTENSION CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286142	Ref	CYLINDER ASSEMBLY - EXTEND/RETRACT	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not available for purchase)	
2	70070120	1	Rod	
3	70070121	1	Retractor	
4	70070122	1	Gland	
5	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
6	See Note	NSS	Seal, Rod (Note: Use Item 101)	
7	See Note	NSS	Ring, Buffer (Note: Use Item 101)	
8	See Note	NSS	Ring, Wear (Note: Use Item 101)	
9	See Note	NSS	O-Ring (Note: Use Item 101)	
10	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
11	See Note	NSS	O-Ring (Note: Use Item 101)	
12	70070123	1	Piston	
13	See Note	NSS	Seal, Piston (Note: Use Item 101)	
14	See Note	NSS	Ring, Wear (Note: Use Item 101)	
15	See Note	NSS	O-Ring (Note: Use Item 101)	
16	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
17	See Note	NSS	O-Ring (Note: Use Item 101)	
18	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
19	70070124	1	Bushing	
20	70070125	1	Rod	
21	70070126	1	Gland	
22	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
23	See Note	NSS	Seal, Rod (Note: Use Item 101)	
24	See Note	NSS	Ring, Buffer (Note: Use Item 101)	
25	See Note	NSS	Ring, Wear (Note: Use Item 101)	
26	See Note	NSS	O-Ring (Note: Use Item 101)	
27	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
28	See Note	NSS	O-Ring (Note: Use Item 101)	
29	70070127	1	Piston	
30	See Note	NSS	Seal, Piston (Note: Use Item 101)	
31	See Note	NSS	Ring, Wear (Note: Use Item 101)	
32	See Note	NSS	O-Ring (Note: Use Item 101)	
33	70070128	1	Valve	
34	70070129	1	Valve - B	
35	70070130	2	Nut, Stop	
36	70070131	1	Spring - B	
37	See Note	NSS	O-Ring (Note: Use Item 101)	
38	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
39	See Note	NSS	O-Ring (Note: Use Item 101)	
40	70070132	2	Set Screw	
41	70005879	2	Set Screw	
42	70070133	2	Bolt	
43	70070134	1	Bolt	
44	70005883	2	Washer	
45	70070135	1	Bolt	
46	70070136	3	Nut	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	70070042	1	Valve, Counterbalance	
48	70070089	1	Valve, Counterbalance	
49	70023371	4	Plug	
50	70023370	2	Plug	
51	70023373	2	Plug	
101	70070137	1	Seal Kit (Includes Items 5-11, 13-18, 22-28, 30-32, 37-39)	

FIGURE 2-6. WRECKER BOOM D-RING RETAINERS INSTALLATION

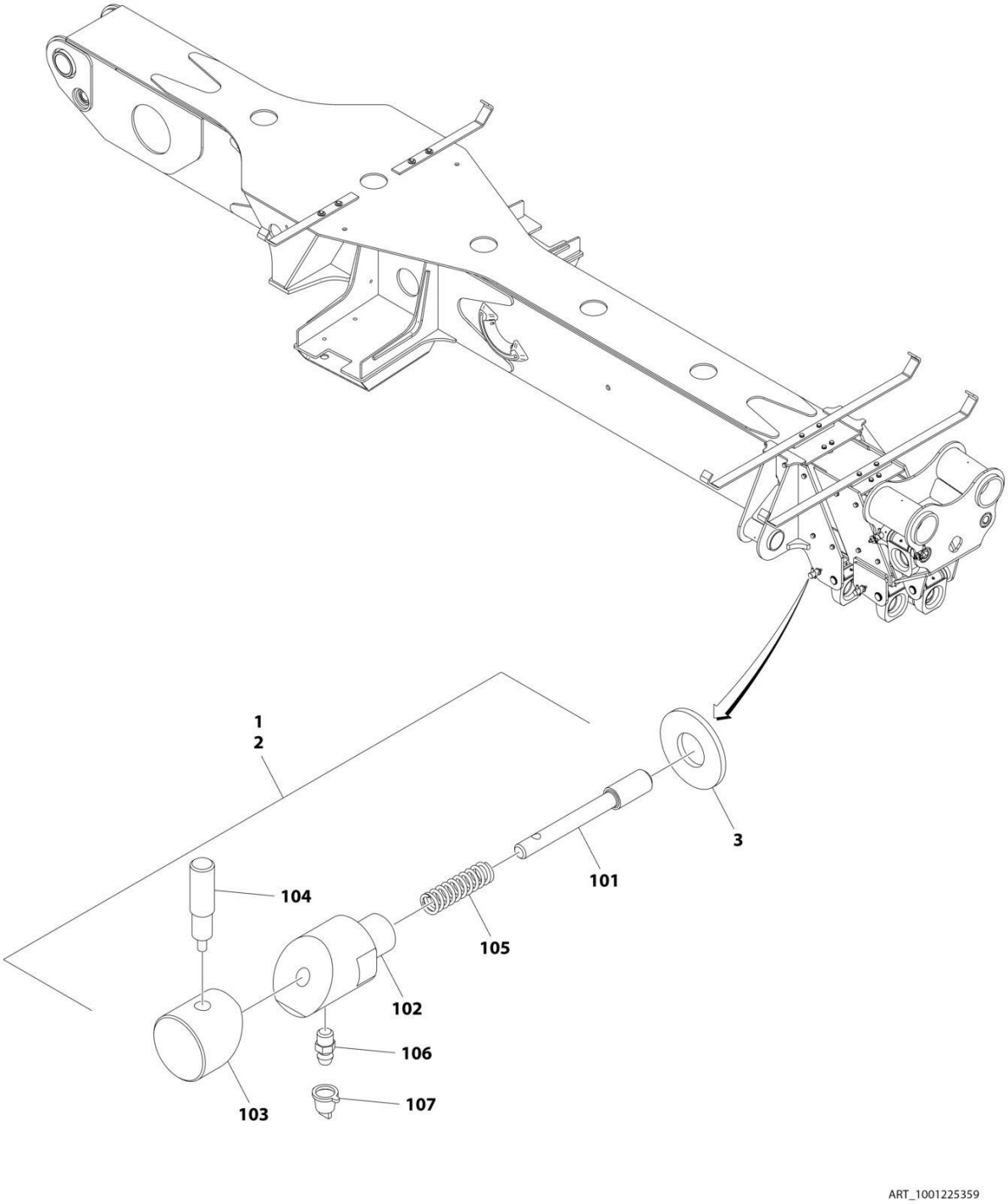


FIGURE 2-6. WRECKER BOOM D-RING RETAINERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001225359	Ref	WRECKER BOOM D-RING RETAINERS INSTALLATION	B
1	0100011	AR	Compound locking	
2	1001153950	4	Threaded Cam-Lock (includes items 101 through 107)	
3	7950200141	4	Washer 5/8	
101	1001153944	2	Pin	
102	1001153945	2	Cam-Lock Tube	
103	1001153946	2	Cam-Lock Cap	
104	1001153947	2	Handle	
105	1001153971	1	Spring	
106	7440030000	2	Fitting, Grease	
107	7253000002	2	Cap, Grease	

FIGURE 2-7. WRECKER BOOM VANITY PLATES BLANK INSTALLATION

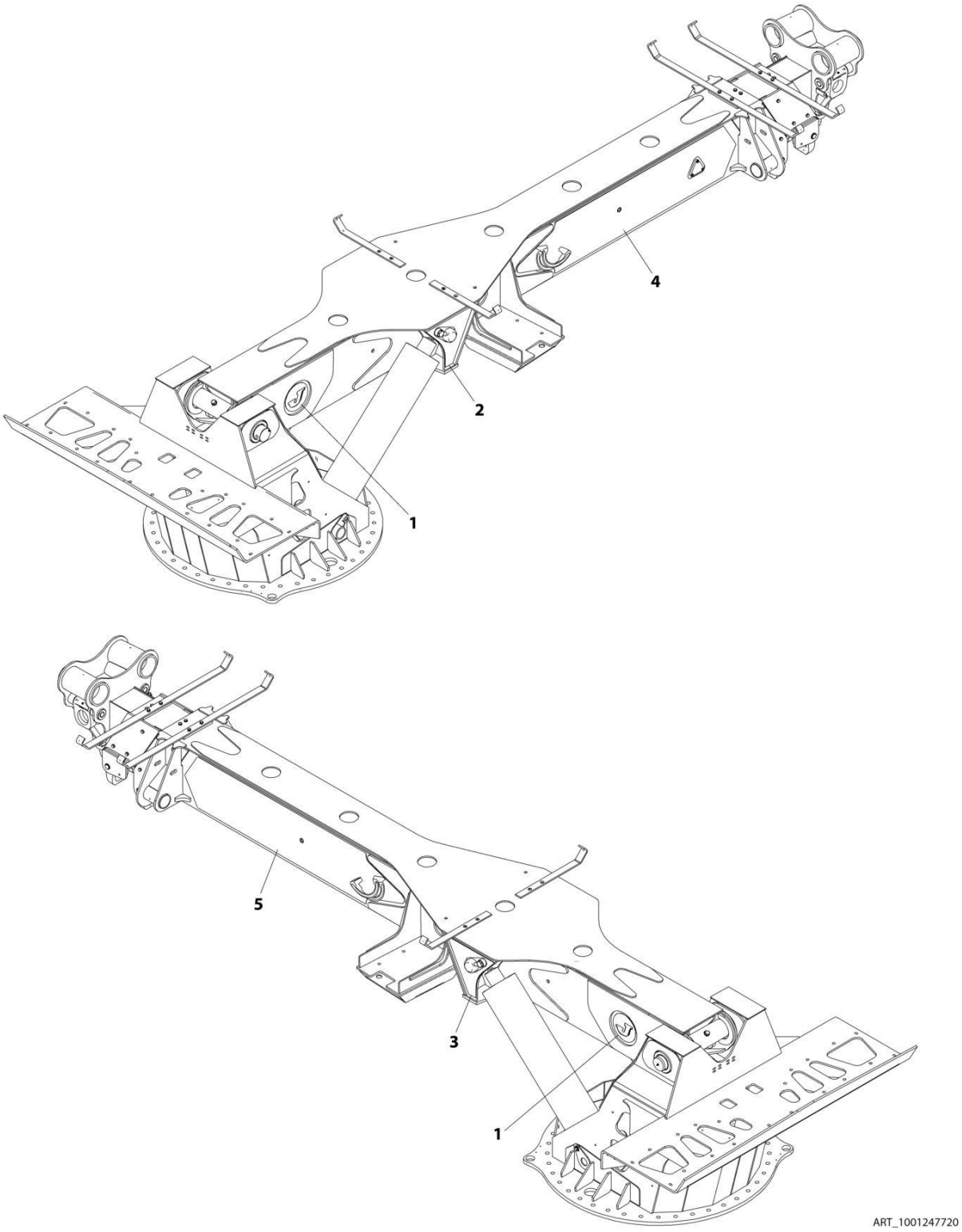


FIGURE 2-7. WRECKER BOOM VANITY PLATES BLANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247720	Ref	Wrecker Boom Vanity Plates Blank Installation	A
1	1001231547	2	Plate, Circle J Boom Vanity	
2	1001247717	1	Plate, Lift Cyl Boom Vanity LH	
3	1001247718	1	Plate, Lift Cyl Boom Vanity RH	
4	1001234074	1	Plate, Boom Side Vanity LH Blank	
5	1001234097	1	Plate, Boom Side Vanity RH Blank	
6	8892040001	14 ft	Tape (Not Shown)	

FIGURE 2-8. WINCH INSTALLATION - 2 SPEED 50,000 LBS RAMSEY

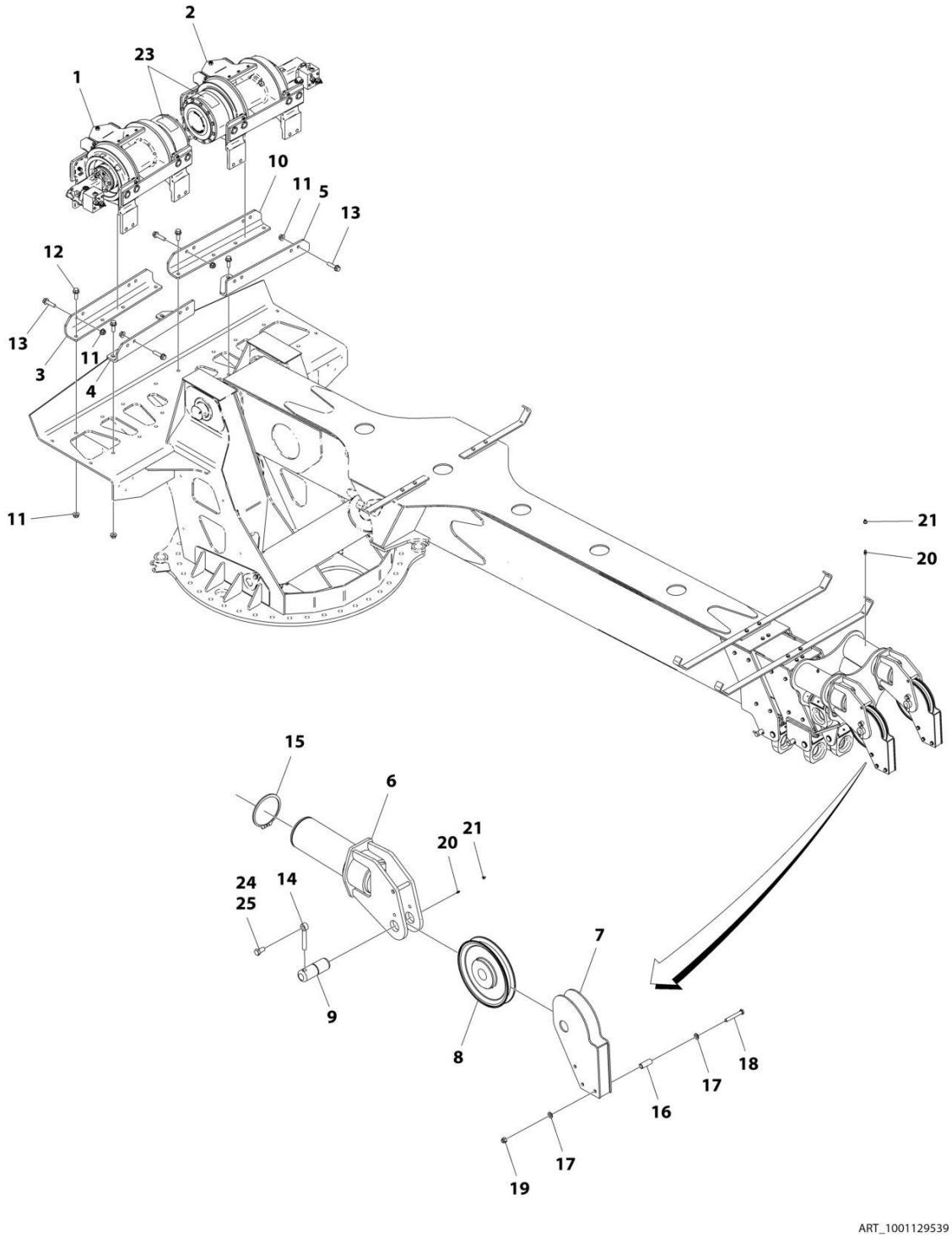


FIGURE 2-8. WINCH INSTALLATION - 2 SPEED 50,000 LBS RAMSEY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129539	Ref	WINCH INSTALLATION - 2 SPEED 50,000 LBS RAMSEY	E
1	1001228181	1	Ramsey Hercules Winch 50,000 lbs - LH (See Separate Breakdown in this Section)	
2	1001226712	1	Ramsey Hercules Winch 50,000 lbs - RH (See Separate Breakdown in this Section)	
3	1001129540	1	Angle, Winch Front - LH	
4	1001129541	1	Angle, Winch Rear - LH	
5	1001129543	1	Angle, Winch Rear - RH	
6	1001169618	2	Sheave Support Weldment	
7	3249000037	2	Cable Guide Weldment	
8	7809000018	2	Sheave	
9	1001170037	2	Pin	
10	1001129542	1	Angle, Winch Front - RH	
11	7660222308	32	Nut 3/4	
12	7118221816	16	Capscrew 3/4 x 2-1/4	
13	7118222416	16	Capscrew 3/4 x 3	
14	3841258	2	Rod	
15	7754000083	2	Retaining Ring	
16	4831000108	6	Spacer	
17	7950180153	12	Washer 1/2	
18	7115182850	6	Bolt 1/2 x 3-1/2	
19	7660182601	6	Nut 1/2	
20	7440030000	4	Grease Fitting	
21	7253000002	4	Grease Fitting Cap	
22	1001136568	1	Hose & Fitting Kit - Hydraulic Winch HDP50 (Not Shown)	
22	1001136772	2	Hose (Not Shown)	
22	1001136792	2	Hose (Not Shown)	
22	7445101045	2	Fitting, 90 JIC (Not Shown)	
22	7445101043	2	Fitting, Straight JIC (Not Shown)	
23	1001142812	2	Decal	
24	7115201050	2	Bolt 3/8 x 1-1/4	
25	0100011	AR	Compound locking	

FIGURE 2-9. WINCH INSTALLATION - 2 SPEED 50,000 LBS DP

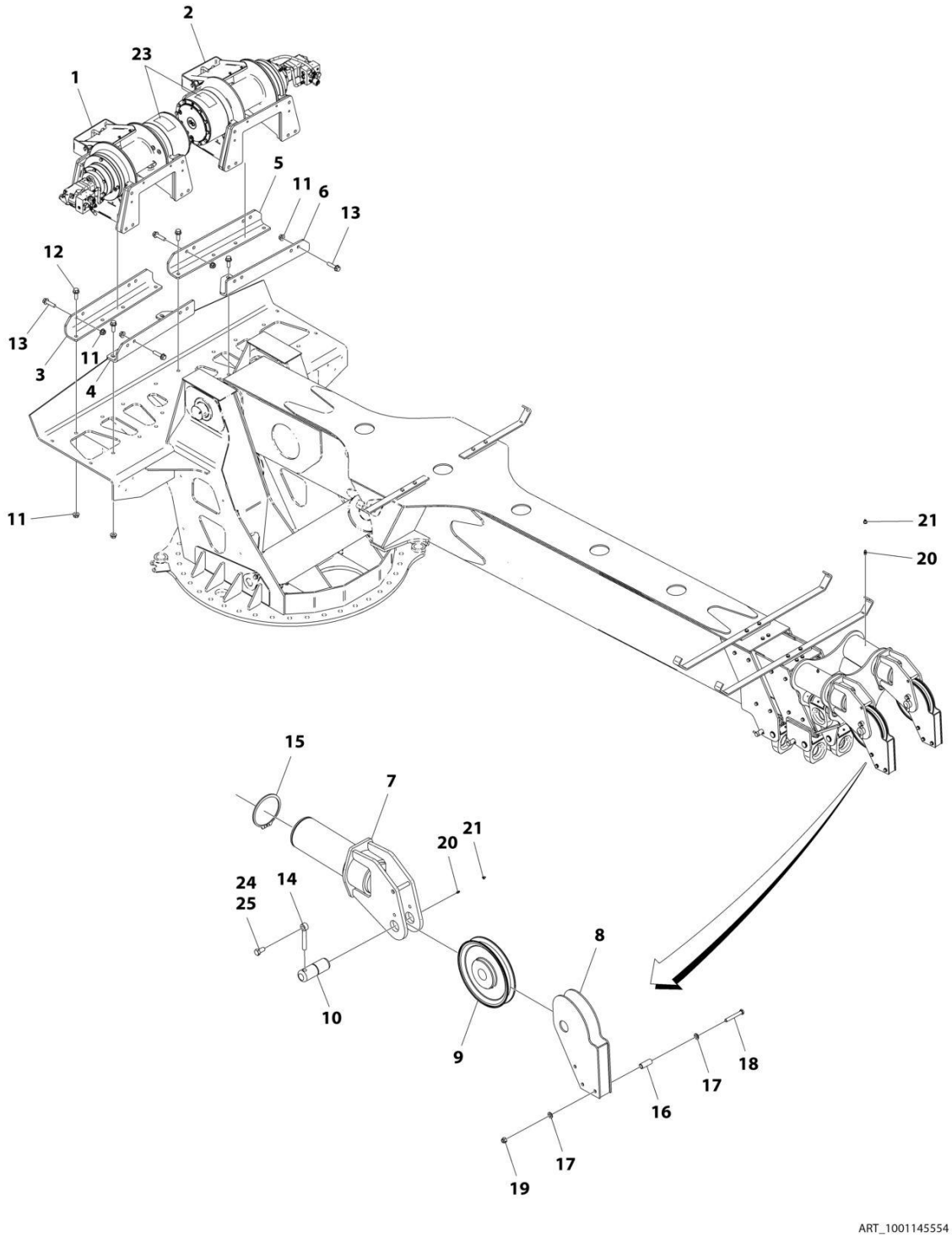


FIGURE 2-9. WINCH INSTALLATION - 2 SPEED 50,000 LBS DP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001145554	Ref	WINCH INSTALLATION - 2 SPEED 50,000 LBS DP	C
1	1001145566	1	DP Winch 50,000 lbs - LH (See Separate Breakdown in this Section)	
2	1001176364	1	DP Winch 50,000 lbs - RH (See Separate Breakdown in this Section)	
3	1001145521	1	Angle, Winch Front - LH	
4	1001145522	1	Angle, Winch Rear - LH	
5	1001145523	1	Angle, Winch Front - LH	
6	1001145524	1	Angle, Winch Front - RH	
7	1001169618	2	Sheave Support Weldment	
8	3249000037	2	Cable Guide Weldment	
9	7809000018	2	Sheave	
10	1001170037	2	Pin	
11	7660222308	32	Nut 3/4	
12	7118221816	16	Capscrew 3/4 x 2-1/4	
13	7118223216	16	Capscrew 3/4 x 4	
14	3841258	2	Rod	
15	7754000083	2	Retaining Ring	
16	4831000108	6	Spacer	
17	7950180153	12	Washer 1/2	
18	7115182850	6	Bolt 1/2 x 3-1/2	
19	7660182601	6	Nut 1/2	
20	7440030000	4	Grease Fitting	
21	7253000002	4	Grease Fitting Cap	
22	1001146793	1	Hose & Fitting Kit - Hydraulic Winch DP50 (Not Shown)	
22	1001136772	2	Hose (Not Shown)	
22	1001136792	2	Hose (Not Shown)	
22	7445100845	1	Fitting, 90 JIC (Not Shown)	
22	7445100843	1	Fitting, Straight JIC (Not Shown)	
23	1001142812	2	Decal	
24	7115201050	2	Bolt 3/8 x 1-1/4	
25	0100011	AR	Compound locking	

FIGURE 2-10. AUXILIARY WINCH INSTALLATION - DP

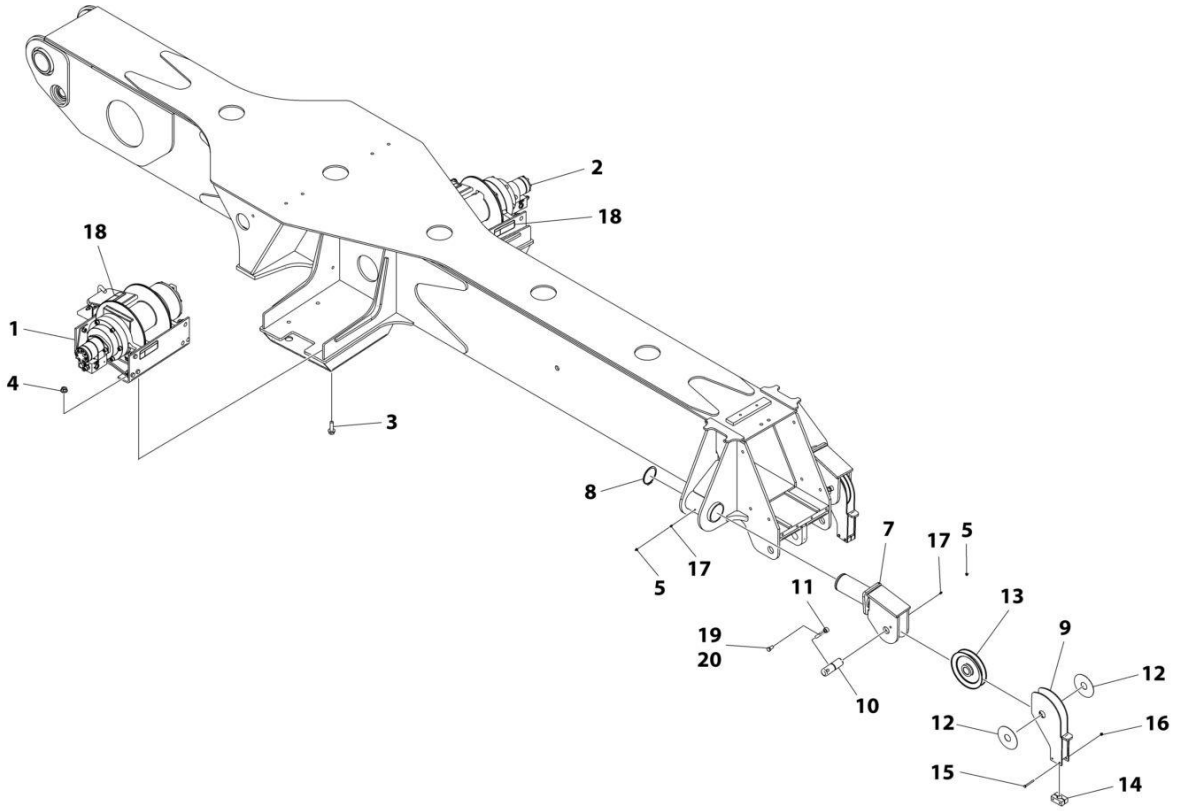


FIGURE 2-10. AUXILIARY WINCH INSTALLATION - DP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166536	Ref	AUXILIARY WINCH INSTALLATION, 20,00 LBS	C
1	1001157913	1	DP Winch 20,000 lbs - LH (See Separate Breakdown in this Section)	
2	1001157914	1	DP Winch 20,000 lbs - RH (See Separate Breakdown in this Section)	
3	7118201616	8	Bolt 5/8 x 2	
4	7661000018	8	Nut 5/8	
5	7253000002	4	Grease Fitting Cap	
6	1001166519	1	Hose Kit - Hydraulic Auxiliary Winch (Not Shown - See Separate Breakdown in HYDRAULIC Secion)	
7	1001169617	2	Support, Sheave	
8	7754000049	2	Retaining Ring	
9	3249000012	2	Guide, Cable	
10	1001169893	2	Pin	
11	3841203	2	Rod	
12	4949000045	4	Washer	
13	1001157954	2	Sheave	
14	4249000001	4	Cable Guide	
15	7115142050	4	Bolt 1/4 x 2-1/2	
16	7660142604	4	Nut 1/4	
17	7440030000	4	Grease Fitting	
18	1001142812	4	Decal	
19	7115180850	2	Bolt 1/2 x 1	
20	0100011	AR	Compound, Locking	

FIGURE 2-11. AUXILIARY WINCH INSTALLATION - RAMSEY

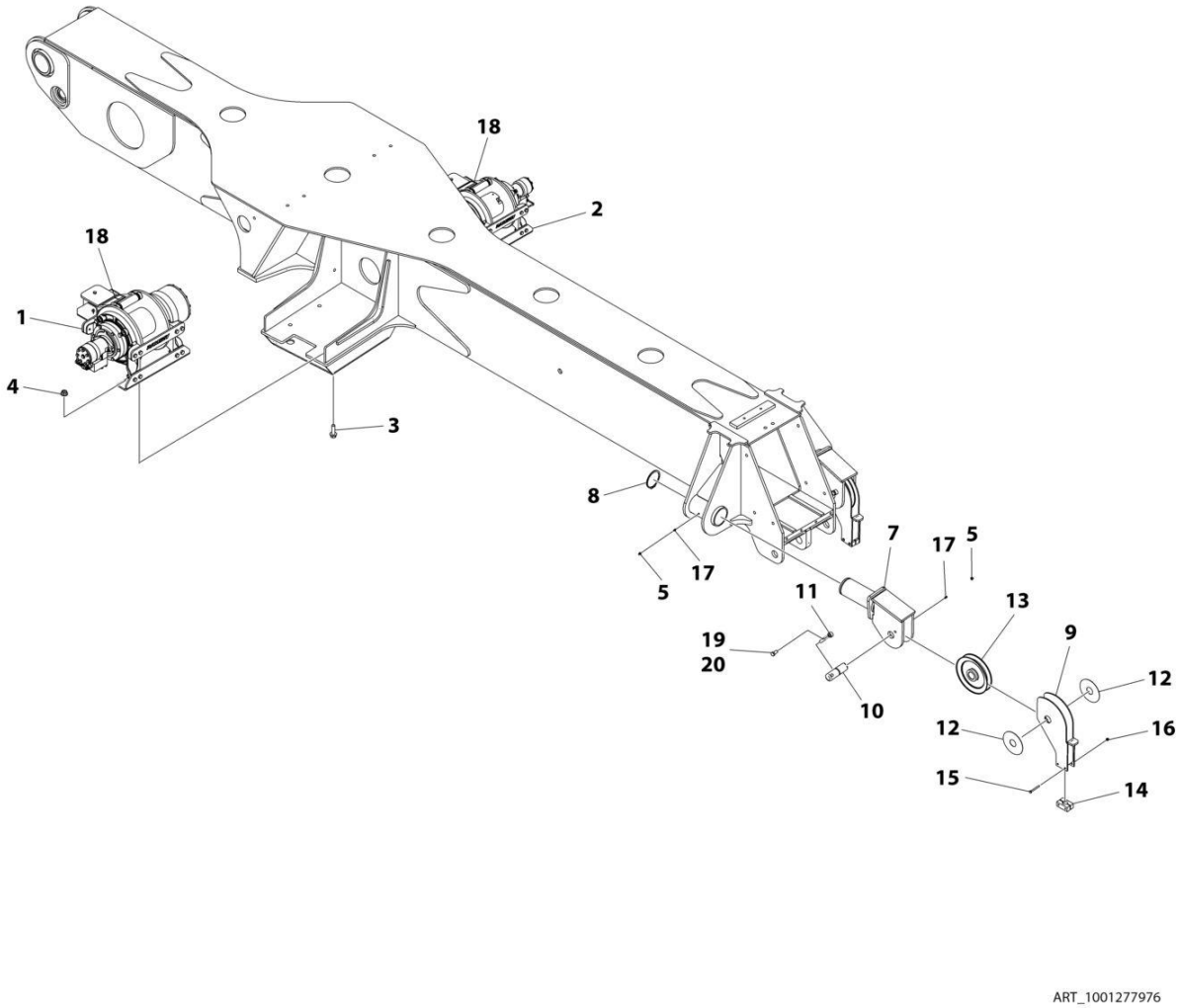


FIGURE 2-11. AUXILIARY WINCH INSTALLATION - RAMSEY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277976	Ref	AUXILIARY WINCH INSTALLATION	B
1	1001277974	1	Winch Assembly - Auxiliary (LH) (See Separate Breakdown in this Section)	
2	1001277975	1	Winch Assembly - Auxiliary (RH) (See Separate Breakdown in this Section)	
3	0812014	8	Screw 5/8 x 1-3/4	
4	7661000018	8	Nut 5/8	
5	7253000002	4	Cap, Grease	
6	1001166519	1	Hose Kit - Hydraulic Auxiliary Winch (Not Shown - See Separate Breakdown in HYDRAULIC Secion)	
7	1001169617	2	Support, Sheave	
8	7754000049	2	Ring, Retaining	
9	3249000012	2	Guide, Cable	
10	1001169893	2	Pin	
11	3841203	2	Rod	
12	4949000045	4	Washer	
13	1001157954	2	Sheave	
14	4249000001	4	Guide, Cable	
15	7115142050	4	Bolt 1/4 x 2-1/2	
16	7660142604	4	Nut 1/4	
17	7440030000	4	Fitting, Grease	
18	1001142812	2	Decal	
19	7115180850	2	Bolt 1/2 x 1	
20	0100011	AR	Compound, Locking	

FIGURE 2-12. AUXILIARY WINCH CABLE TIE-BACK INSTALLATION

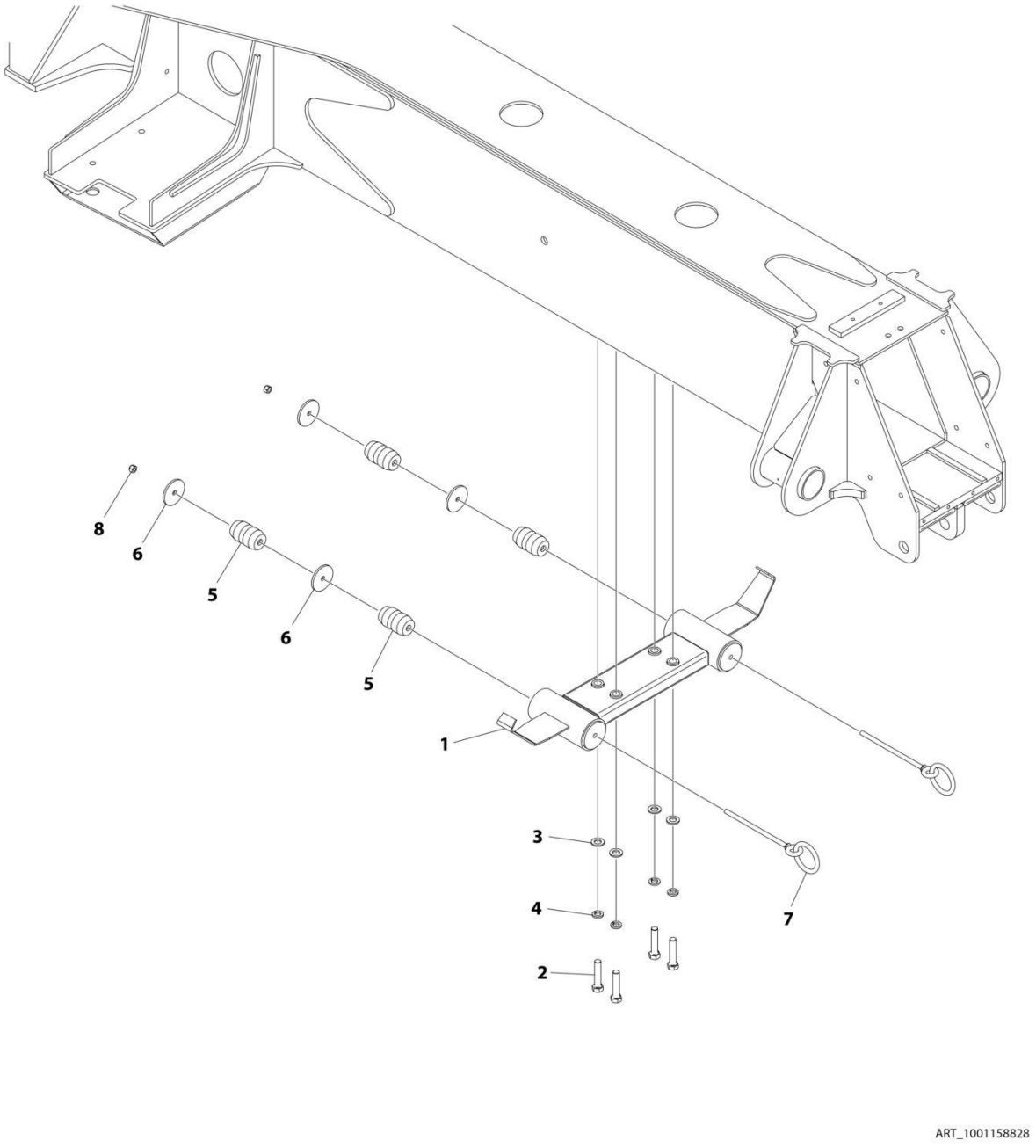


FIGURE 2-12. AUXILIARY WINCH CABLE TIE-BACK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158828	Ref	Auxiliary Winch Cable Tie-Back Installation	C
1	1001158198	1	Bracket, Cable Tie-Back	
2	7118222850	4	Capscrew 3/4 x 3-1/2	
3	7950220141	4	Washer 3/4	
4	7950220000	4	Washer 3/4	
5	7189000014	4	Spring	
6	4831000115	4	Spacer	
7	7120000053	2	Ring Bolt 1/2 x 10	
8	7660182601	2	Nut 1/2	

FIGURE 2-13. CABLE INSTALLATION - 0.75 X 250FT EEIPS SWIVEL HOOK

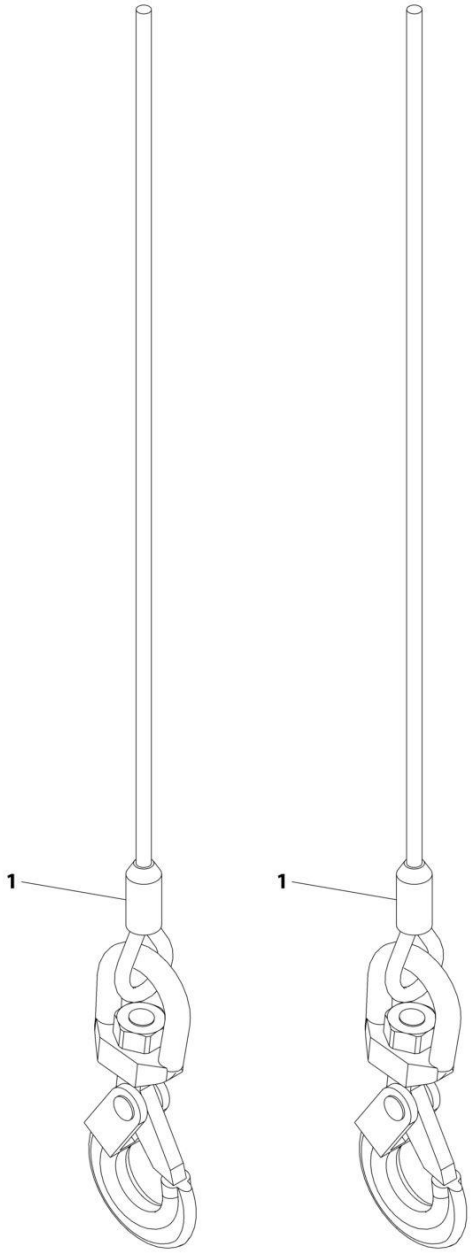


FIGURE 2-13. CABLE INSTALLATION - 0.75 X 250FT EEIPS SWIVEL HOOK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001224154	Ref	CABLE INSTALLATION - 0.75 X 250FT EEIPS SWIVEL HOOK	B
1	1001224173	2	Cable Assembly	

FIGURE 2-14. CABLE INSTALLATION - AUXILIARY WINCH

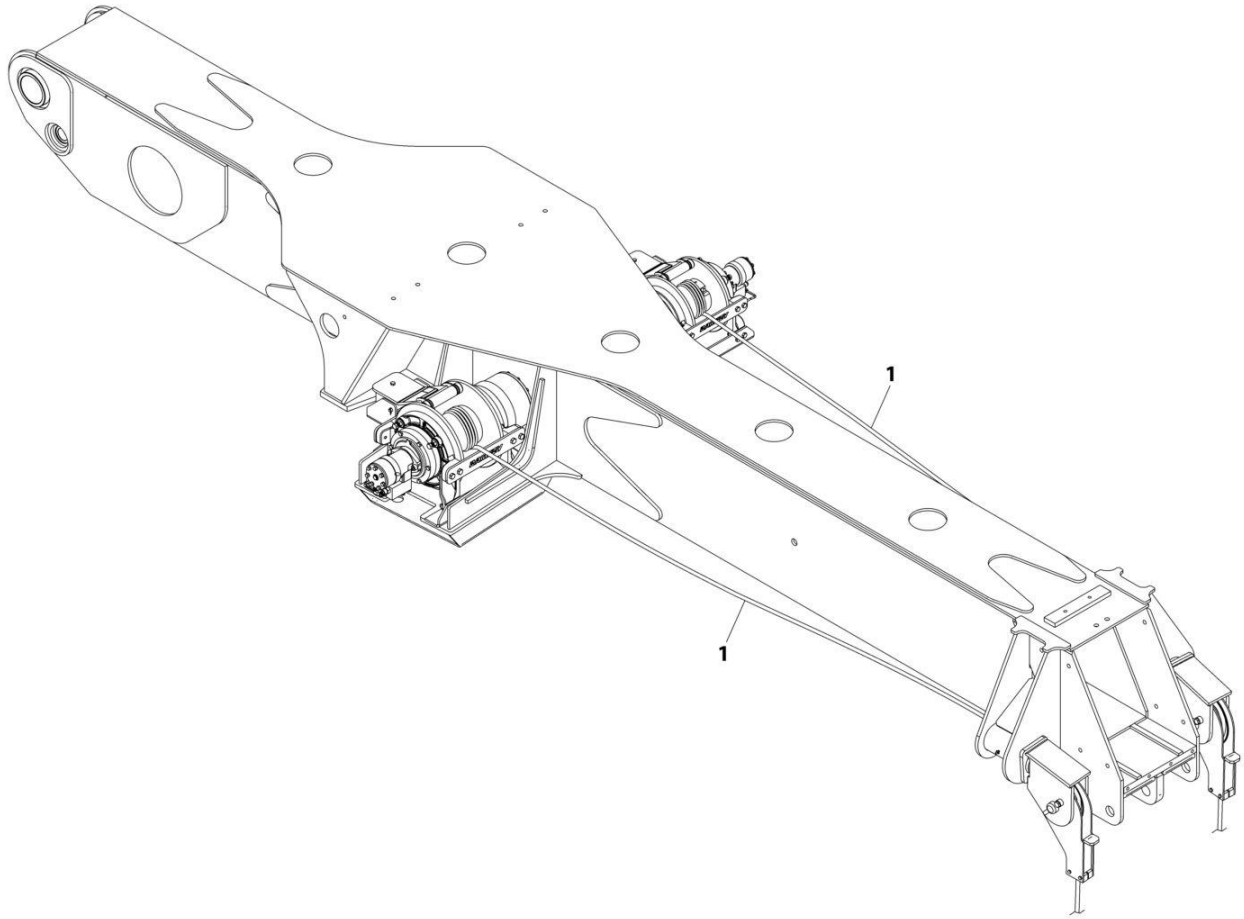


FIGURE 2-14. CABLE INSTALLATION - AUXILIARY WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001224155	Ref	CABLE INSTALLATION - AUXILIARY WINCH	B
1	1001224174	2	Cable, Winch	

FIGURE 2-15. CYLINDER ASSEMBLY - BOOM LIFT

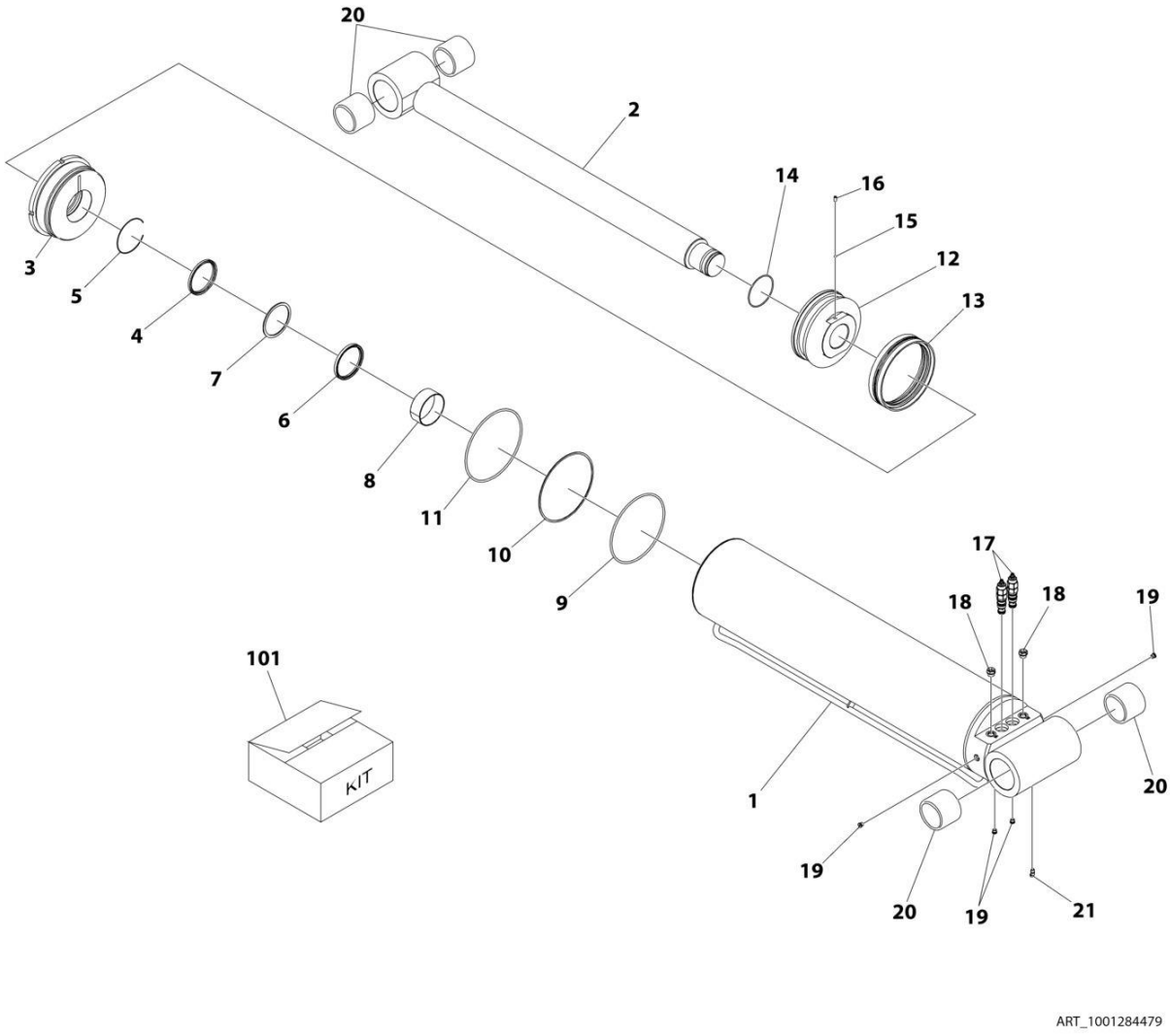
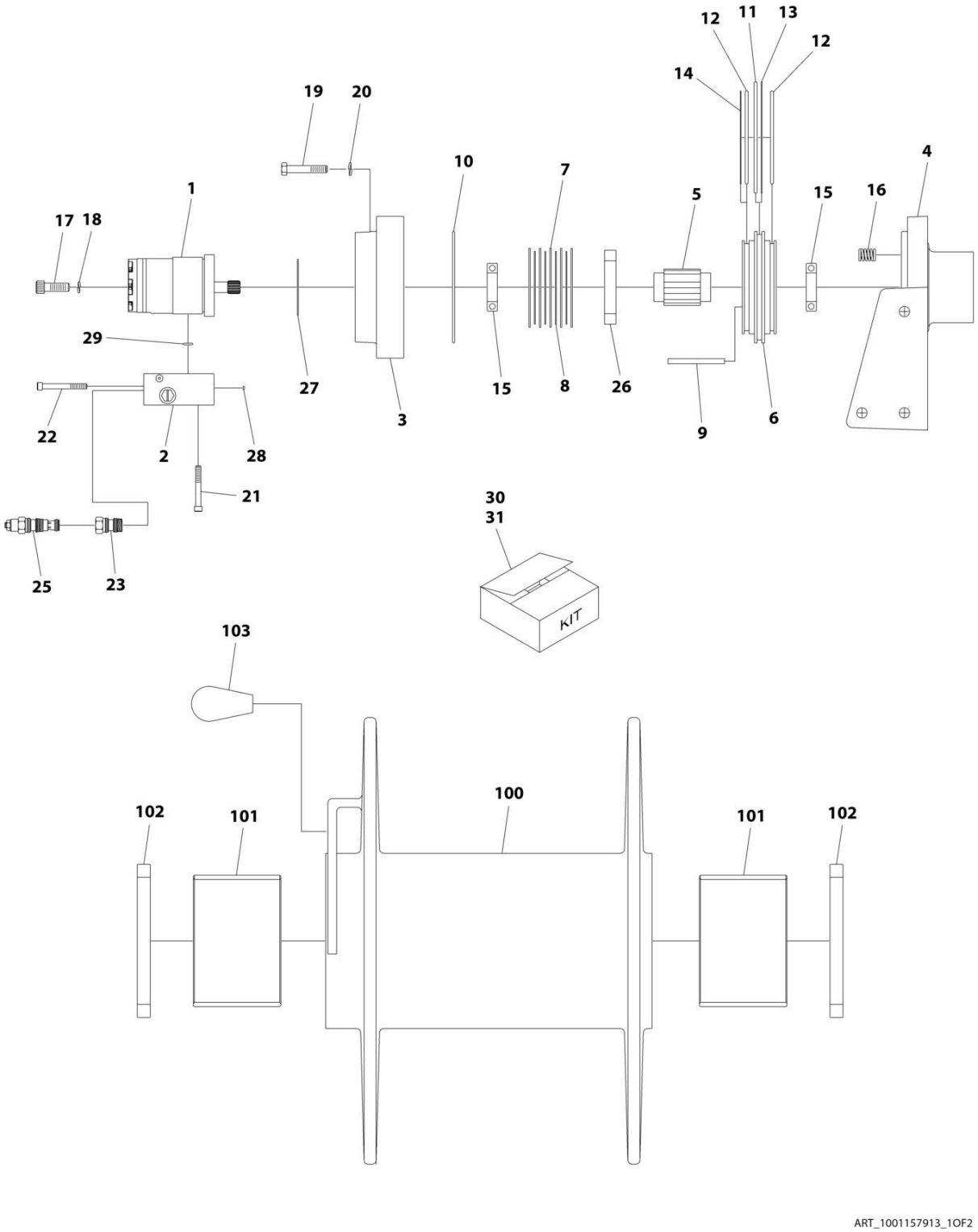


FIGURE 2-15. CYLINDER ASSEMBLY - BOOM LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284479	Ref	CYLINDER ASSEMBLY - BOOM LIFT	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70070162	1	Rod	
3	70070163	1	Gland	
4	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
5	70026283	1	Ring, Retaining	
6	See Note	NSS	Seal, Rod (Note: Use Item 101)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
8	70070164	1	Bearing	
9	See Note	NSS	O-Ring (Note: Use Item 101)	
10	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
11	See Note	NSS	O-Ring (Note: Use Item 101)	
12	70070165	1	Piston	
13	See Note	NSS	Seal, Piston (Note: Use Item 101)	
14	See Note	NSS	O-Ring (Note: Use Item 101)	
15	70022564	1	Ball, Steel	
16	70007246	1	Screw, Set	
17	70052528	2	Valve, Counterbalance	
18	70070071	2	Plug	
19	70023370	4	Plug	
20	70070166	4	Bearing	
21	70070072	1	Nipple, Grease	
101	70053189	1	Kit, Seal (Includes Items 4, 6, 7, 9-11, 13, 14)	

FIGURE 2-16. DP WINCH 20,000 LBS - LH



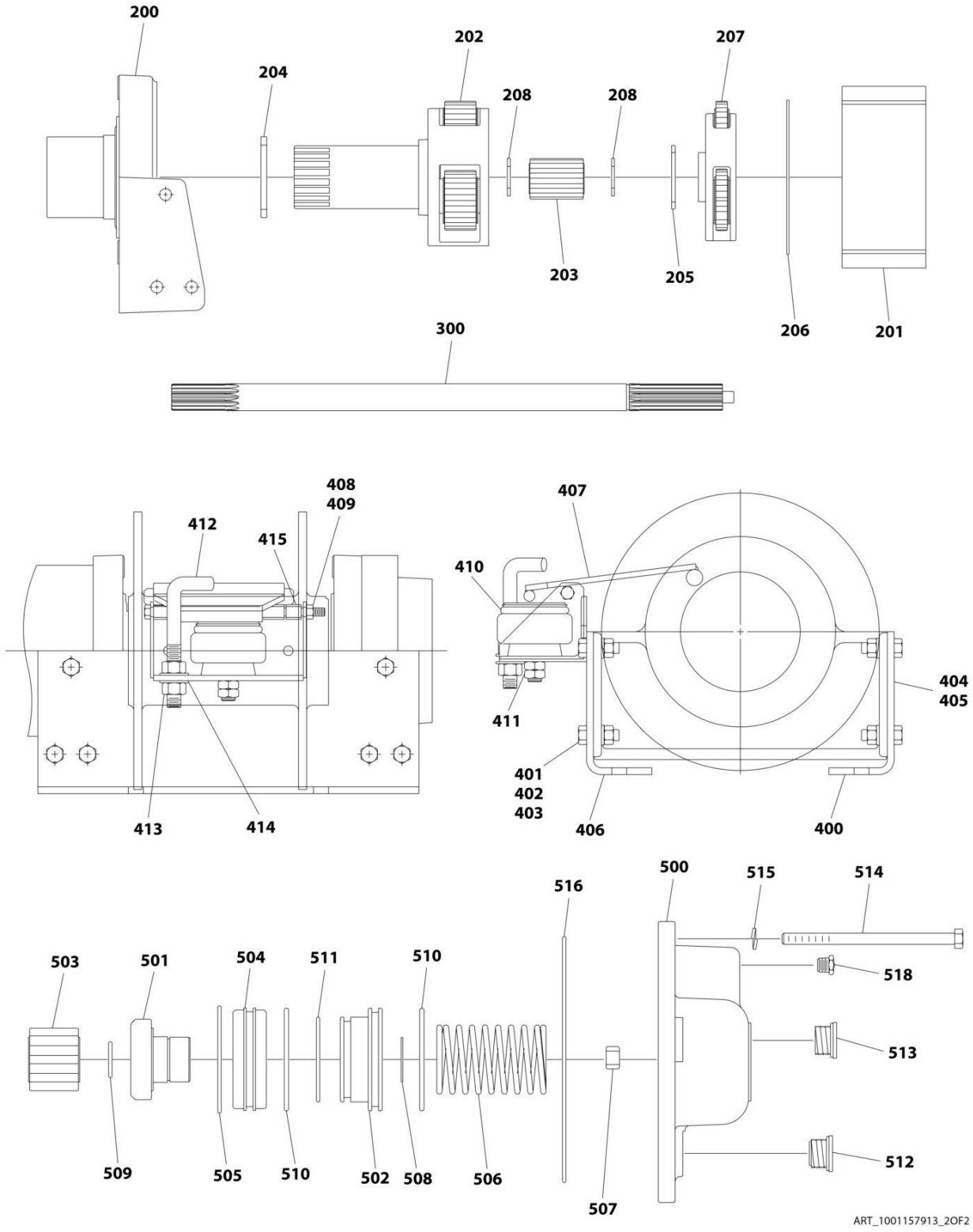
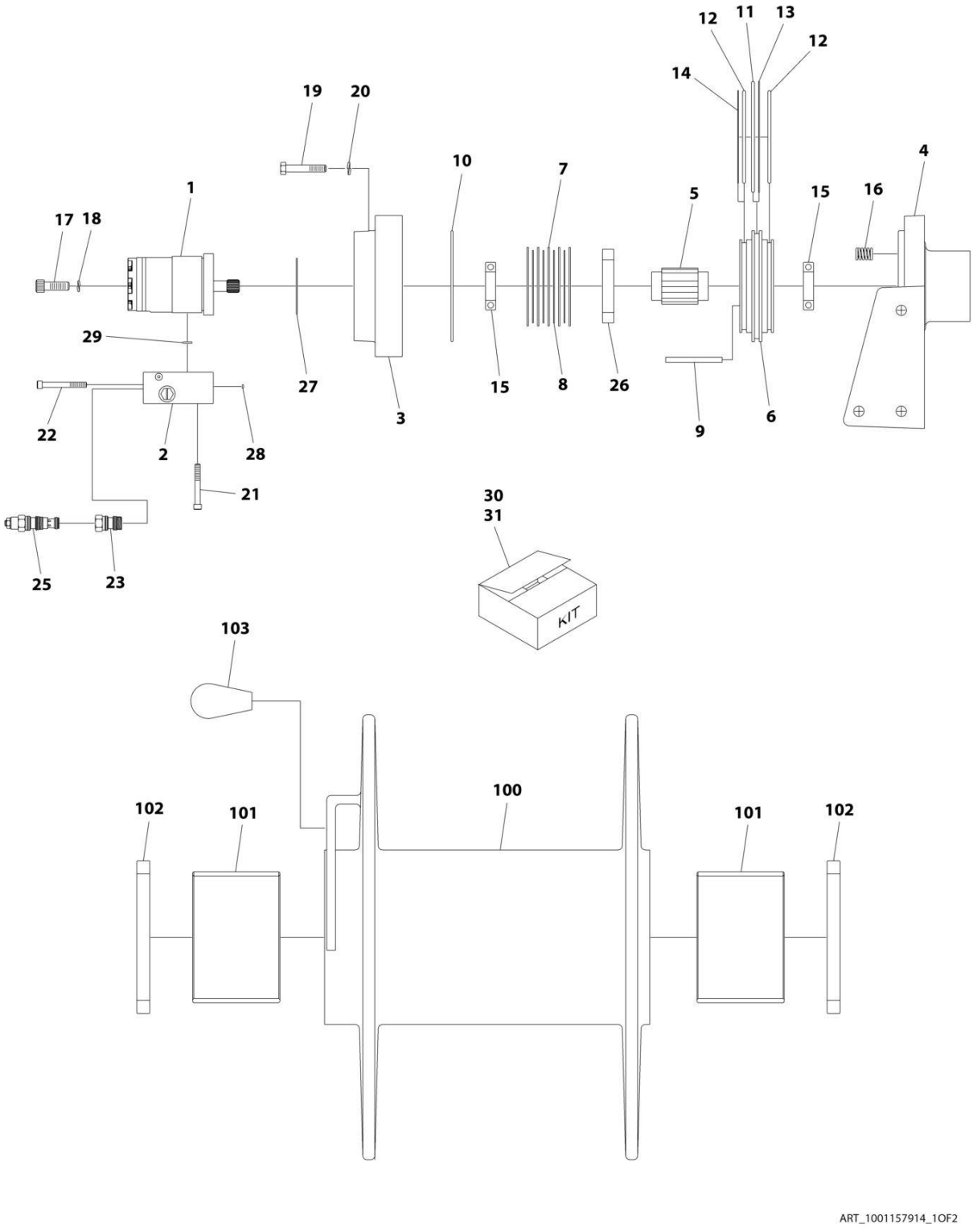

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FIGURE 2-16. DP WINCH 20,000 LBS - LH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157913	Ref	DP Winch 20,000 lbs - LH	A
		Ref	Motor End Assembly	
1	70050113	1	Motor, Hydraulic	
2	70050739	1	Valve, Counterbalance	
3	70050741	1	Housing, Brake	
4	70050742	2	Support, Motor End	
5	70050743	1	Shaft, Brake	
6	9698960008	1	Piston, Brake	
7	Kit	5	Plate, Friction Disc	
8	Kit	4	Plate, Brake Drive	
9	9691960021	2	Pin	
10	Kit	1	O-Ring	
11	Kit	1	O-Ring	
12	Kit	2	O-Ring	
13	Kit	1	Ring	
14	Kit	1	Ring	
15	9082960013	2	Bearing	
16	Kit	12	Spring	
17	70050127	2	Capscrew 1/2 x 1-1/4	
18	7950180800	2	Washer 1/2	
19	7118172050	6	Capscrew 7/16 x 2-1/2	
20	7950170000	6	Washer 7/16	
21	70050744	4	Capscrew 5/16 x 2	
22	70050126	1	Capscrew 1/4 x 4-1/2	
23	70050132	1	Plug	
24	70050401	1	Tag, Warning (Not Shown)	
25	70050129	1	Cartridge, Counterbalance	
26	9831960008	1	Spacer, Brake	
27	9796960145	1	O-Ring	
28	70050115	1	O-Ring	
29	70050740	2	O-Ring	
30	9577960119	Ref	Disk and Spring Kit (includes items 7, 8 & 16)	
31	9577960120	Ref	Brake Seal Kit (includes items 10 to 14)	
		Ref	Drum Assembly	
100	70050745	1	Drum	
101	70050746	2	Bearing	
102	70050747	2	Seal	
103	70050749	1	Wedge	
		Ref	Gear End Assembly	
200	70050750	1	Support, Gear End	
201	70050139	1	Gear, Ring	
202	70050751	1	Carrier Assembly	
203	70050140	1	Gear	
204	70050752	1	Washer, Thrust - Nylon	
205	9949000056	1	Washer, Thrust - Nylon	
206	9796960188	1	O-Ring	
207	70050141	1	Carrier	
208	9949960057	2	Washer, Thrust	
		Ref	Input Shaft Assembly	
300	70050753	1	Input Shaft	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Base Mount Assembly	
400	70050754	1	Base, Angle	
401	70050755	12	Capscrew 1/2 x 1-1/2	
402	70050756	12	Nut 1/2	
403	7950180000	12	Washer 1/2	
404	70050384	1	Plate, Winch Information	
405	70050147	4	Rivet	
406	70050757	1	Base, Angle	
407	70050758	1	Arm, Rub Bar	
408	70050759	1	Capscrew 3/8 x 8	
409	9661960034	1	Nut 3/8	
410	9843960023	1	Spring, Air Cushion	
411	7660200200	2	Nut 5/8	
412	9120960019	1	Bolt 5/8 x 6-1/2	
413	7660200001	1	Nut 5/8	
414	7950200151	2	Washer 5/8	
415	70050760	1	Spacer, Rub Bar	
		Ref	Gear End Cover Assembly	
500	70050151	1	Cover	
501	70050085	1	Coupling, Drive	
502	70050086	1	Piston	
03	70050152	1	Gear	
504	9698960015	1	Piston, Cylinder	
505	9754960026	1	Ring, Retainer	
506	9843960032	1	Spring	
507	9209960026	1	Bushing	
508	9754960046	1	Ring, Retainer	
509	9754960047	1	Ring, Retainer	
510	9796960116	2	O-Ring	
511	9796960118	1	O-Ring	
512	9701960012	1	Plug	
513	9701960011	1	Plug	
514	70050761	8	Capscrew	
515	9949960050	8	Washer	
516	9796960188	1	O-Ring	
517	9701960018	1	Caplug (Not Shown)	
518	9183960001	1	Vent	

FIGURE 2-17. DP WINCH 20,000 LBS - RH



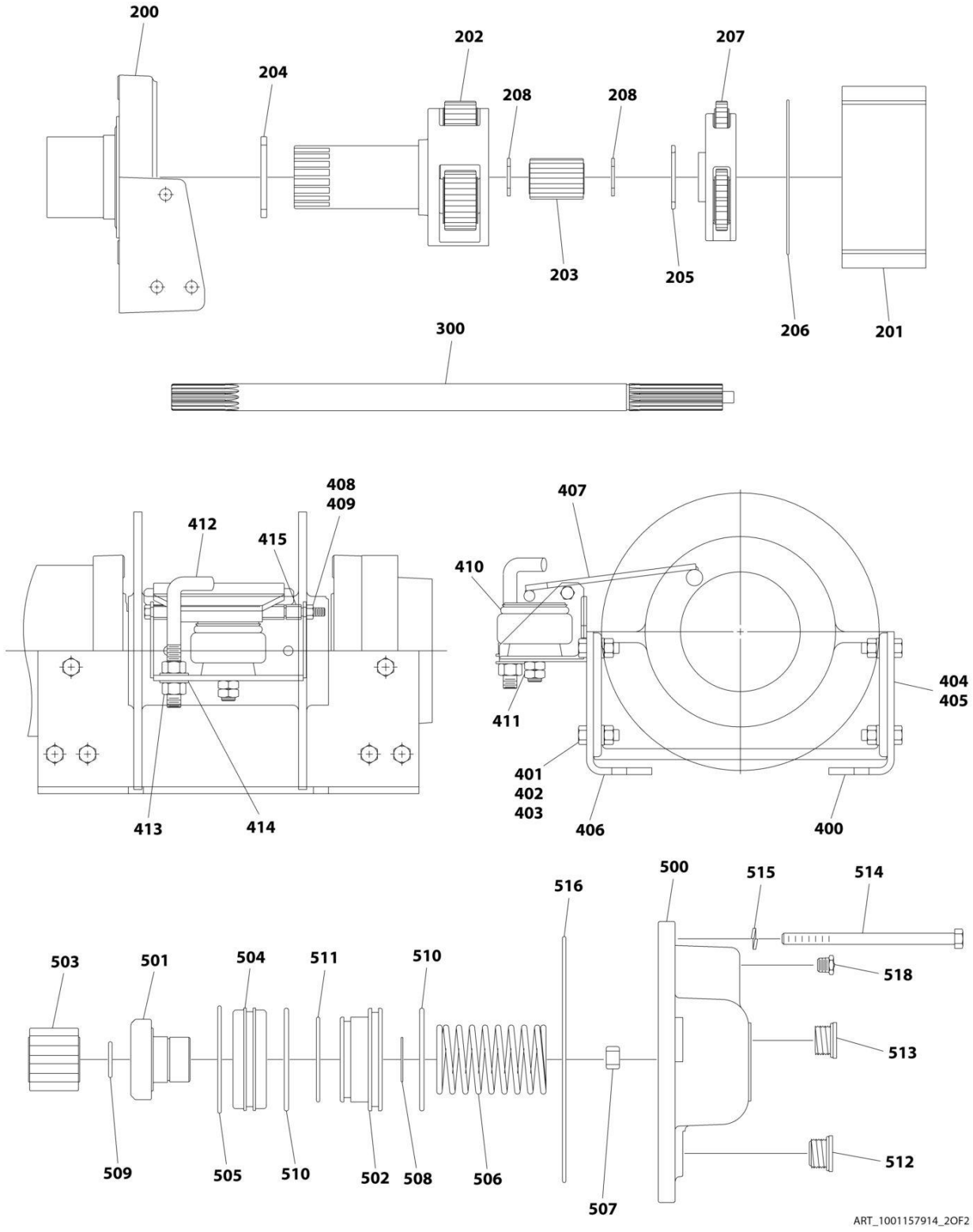
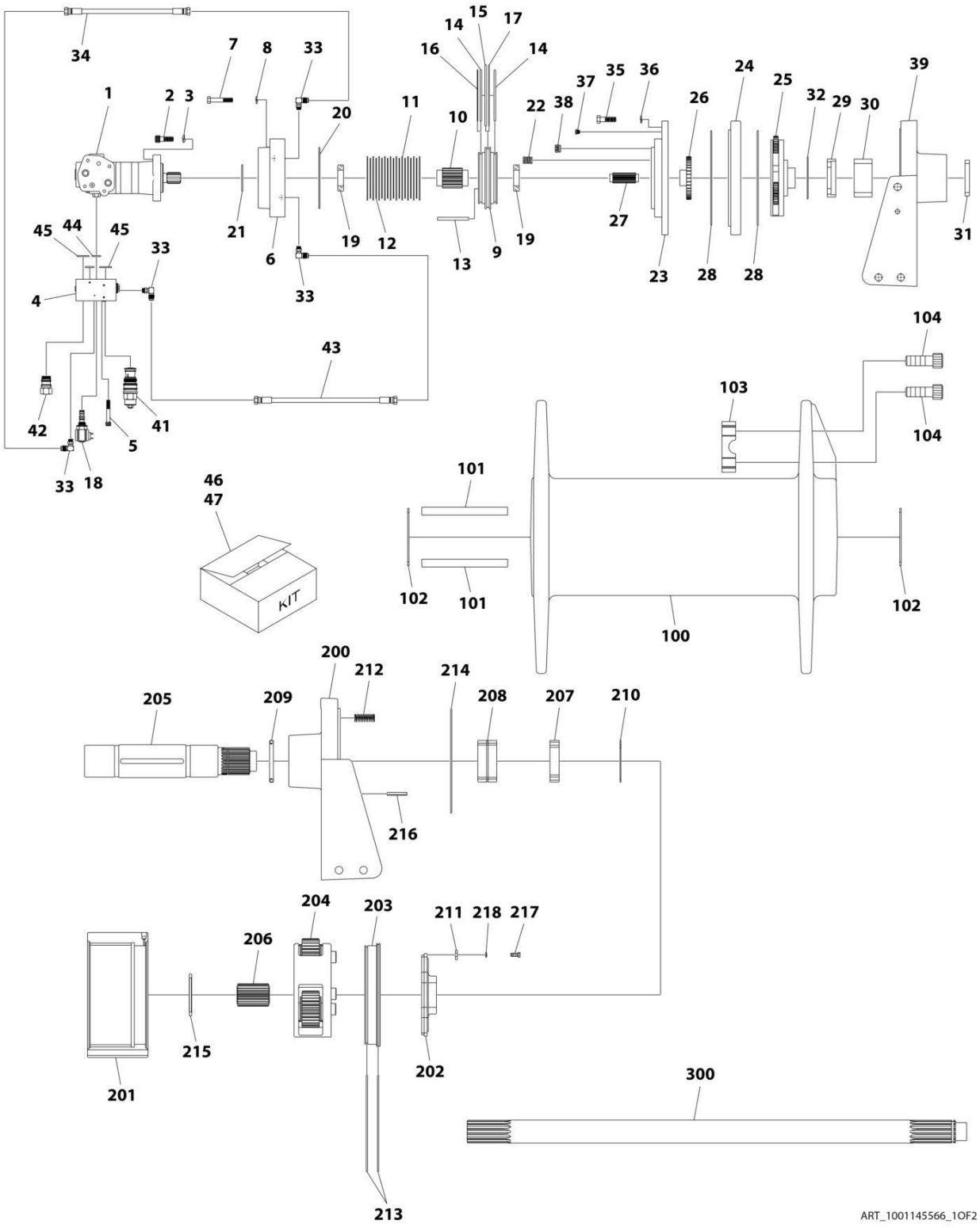

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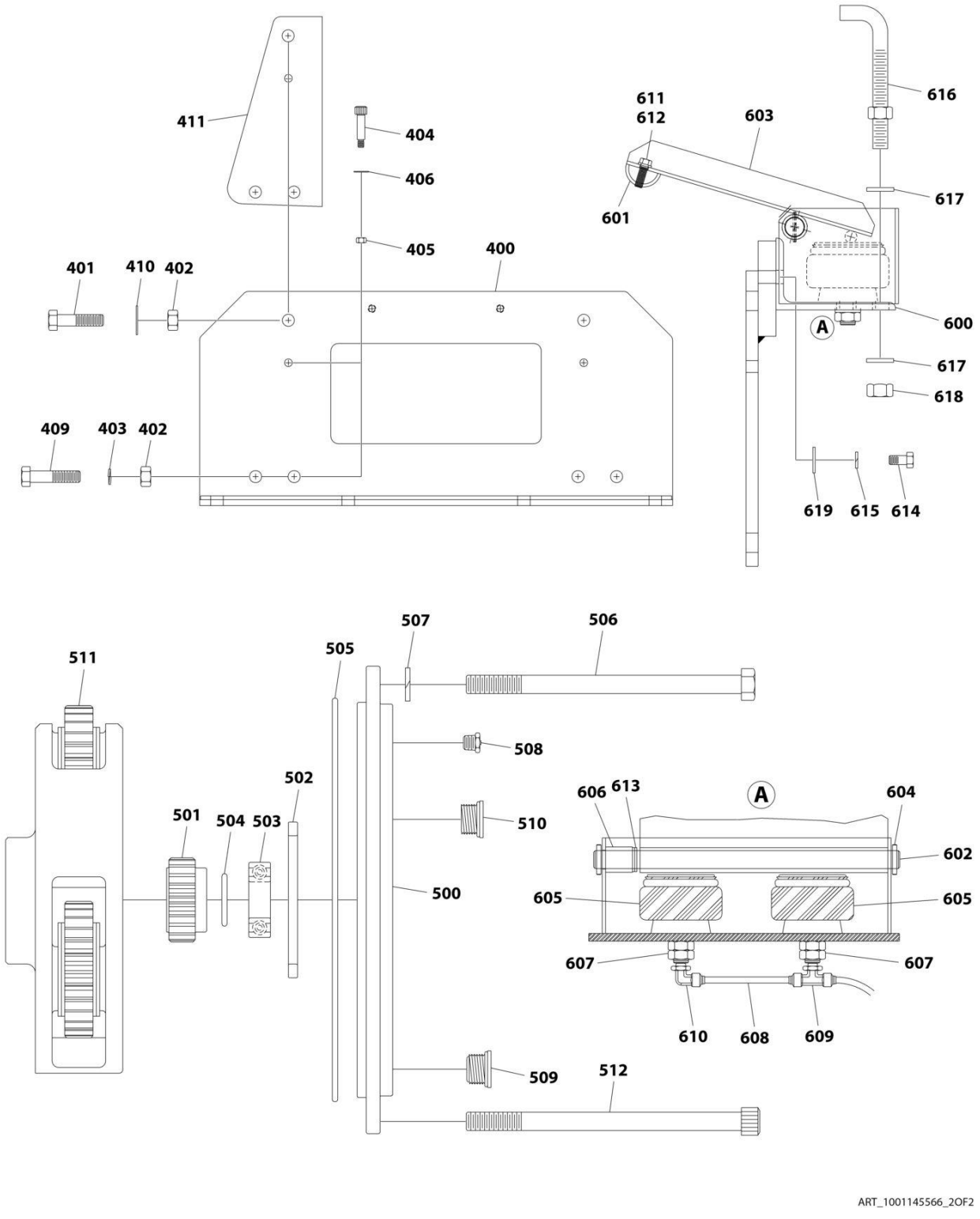
FIGURE 2-17. DP WINCH 20,000 LBS - RH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157914	Ref	DP Winch 20,000 lbs - RH	A
		Ref	Motor End Assembly	
1	70050113	1	Motor, Hydraulic	
2	70050739	1	Valve, Counterbalance	
3	70050741	1	Housing, Brake	
4	70050742	2	Support, Motor End	
5	70050743	1	Shaft, Brake	
6	9698960008	1	Piston, Brake	
7	Kit	5	Plate, Friction Disc	
8	Kit	4	Plate, Brake Drive	
9	9691960021	2	Pin	
10	Kit	1	O-Ring	
11	Kit	1	O-Ring	
12	Kit	2	O-Ring	
13	Kit	1	Ring	
14	Kit	1	Ring	
15	9082960013	2	Bearing	
16	Kit	12	Spring	
17	70050127	2	Capscrew 1/2 x 1-1/4	
18	7950180800	2	Washer 1/2	
19	7118172050	6	Capscrew 7/16 x 2-1/2	
20	7950170000	6	Washer 7/16	
21	70050744	4	Capscrew 5/16 x 2	
22	70050126	1	Capscrew 1/4 x 4-1/2	
23	70050132	1	Plug	
24	70050401	1	Tag, Warning (Not Shown)	
25	70050129	1	Cartridge, Counterbalance	
26	9831960008	1	Spacer, Brake	
27	9796960145	1	O-Ring	
28	70050115	1	O-Ring	
29	70050740	2	O-Ring	
30	9577960119	Ref	Disk and Spring Kit (includes items 7, 8 & 16)	
31	9577960120	Ref	Brake Seal Kit (includes items 10 to 14)	
		Ref	Drum Assembly	
100	70050745	1	Drum	
101	70050746	2	Bearing	
102	70050747	2	Seal	
103	70050749	1	Wedge	
		Ref	Gear End Assembly	
200	70050750	1	Support, Gear End	
201	70050139	1	Gear, Ring	
202	70050751	1	Carrier Assembly	
203	70050140	1	Gear	
204	70050752	1	Washer, Thrust - Nylon	
205	9949000056	1	Washer, Thrust - Nylon	
206	9796960188	1	O-Ring	
207	70050141	1	Carrier	
208	9949960057	2	Washer, Thrust	
		Ref	Input Shaft Assembly	
300	70050753	1	Input Shaft	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Base Mount Assembly	
400	70050754	1	Base, Angle	
401	70050755	12	Capscrew 1/2 x 1-1/2	
402	70050756	12	Nut 1/2	
403	7950180000	12	Washer 1/2	
404	70050384	1	Plate, Winch Information	
405	70050147	4	Rivet	
406	70050757	1	Base, Angle	
407	70050758	1	Arm, Rub Bar	
408	70050759	1	Capscrew 3/8 x 8	
409	9661960034	1	Nut 3/8	
410	9843960023	1	Spring, Air Cushion	
411	7660200200	2	Nut 5/8	
412	9120960019	1	Bolt 5/8 x 6-1/2	
413	7660200001	1	Nut 5/8	
414	7950200151	2	Washer 5/8	
415	70050760	1	Spacer, Rub Bar	
		Ref	Gear End Cover Assembly	
500	70050151	1	Cover	
501	70050085	1	Coupling, Drive	
502	70050086	1	Piston	
03	70050152	1	Gear	
504	9698960015	1	Piston, Cylinder	
505	9754960026	1	Ring, Retainer	
506	9843960032	1	Spring	
507	9209960026	1	Bushing	
508	9754960046	1	Ring, Retainer	
509	9754960047	1	Ring, Retainer	
510	9796960116	2	O-Ring	
511	9796960118	1	O-Ring	
512	9701960012	1	Plug	
513	9701960011	1	Plug	
514	70050761	8	Capscrew	
515	9949960050	8	Washer	
516	9796960188	1	O-Ring	
517	9701960018	1	Caplug (Not Shown)	
518	9183960001	1	Vent	

FIGURE 2-18. DP WINCH 50,000 LBS - LH





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FIGURE 2-18. DP WINCH 50,000 LBS - LH

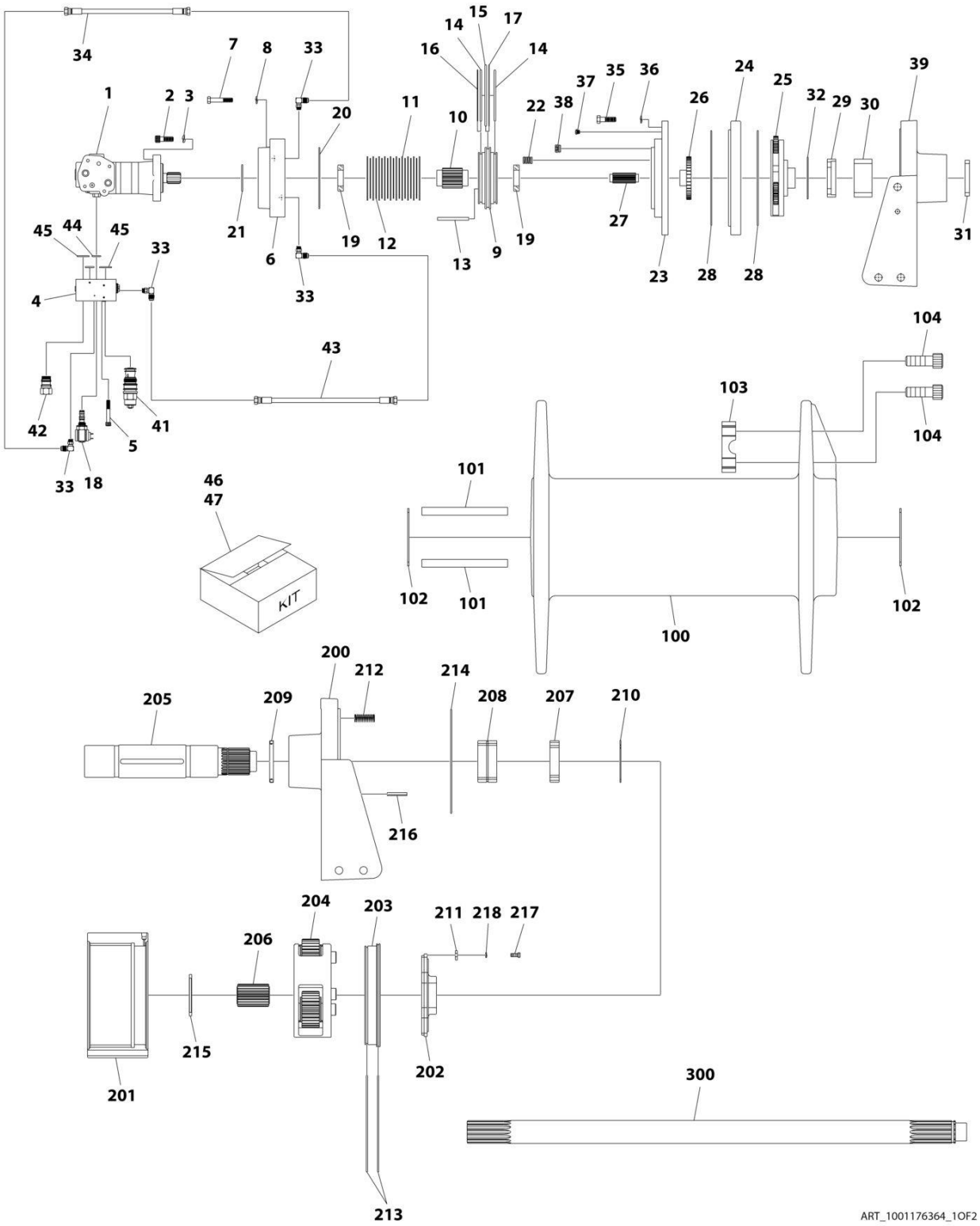
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001145566	Ref	DP Winch 50,000 lbs - LH	C
		Ref	Motor End Assembly	
1	70050367	1	Motor, Hydraulic	
2	7118181205	2	Capscrew 1/2 x 1-1/2	
3	7950180800	2	Washer 1/2	
4	70050368	1	Valve, Counterbalance	
5	70050370	4	Capscrew 3/8 x 2-1/2	
6	9571960006	1	Housing, Brake Outer	
7	7118172050	6	Capscrew 7/16 x 2-1/2	
8	7950170000	6	Washer 7/16	
9	9698960008	1	Piston, Brake	
10	9806960013	1	Shaft, Brake	
11	Kit	10	Plate, Friction Disk	
12	Kit	9	Plate, Brake Drive	
13	9691960021	2	Pin	
14	Kit	2	O-Ring	
15	Kit	1	O-Ring	
16	Kit	1	Ring	
17	Kit	1	Ring	
18	70050371	1	Cartridge, Valve	
19	9082960013	2	Bearing	
20	Kit	1	O-Ring	
21	9796960090	1	O-Ring	
22	Kit	12	Spring	
23	7007960040	1	Adapter, Brake	
24	9472960032	1	Gear, Ring 92 Teeth	
25	9472960029	1	Carrier, Planetary Assembly	
26	9472960033	1	Gear, Sun	
27	9806960014	1	Shaft, Extension	
28	9796960085	2	O-Ring	
29	9706960027	1	Plate, Thrust - 45	
30	9082960014	1	Bearing	
31	9796960087	1	Seal	
32	9754960029	1	Retainer Ring	
33	7445040445	3	Adapter	
34	70050372	1	Hose	
35	7115182250	4	Capscrew 1/2 x 2-3/4	
36	7950180000	4	Washer 1/2	
37	9183960001	1	Vent	
38	9701960010	2	Plug	
39	9177960002	1	Support, Motor End	
40	9443960006	1	Adapter (Not Shown)	
41	9935960026	1	Cartridge, Counterbalance	
42	9701960013	1	Plug Assembly	
43	70050373	1	Hose	
44	70050369	2	O-Ring	
45	9796960088	2	O-Ring	
46	9577960119	Ref	Disk and Spring Kit (includes items 11, 12 & 22)	
47	9577960120	Ref	Brake Seal Kit (includes items 14 to 17 & 20)	
		Ref	Drum Assembly	

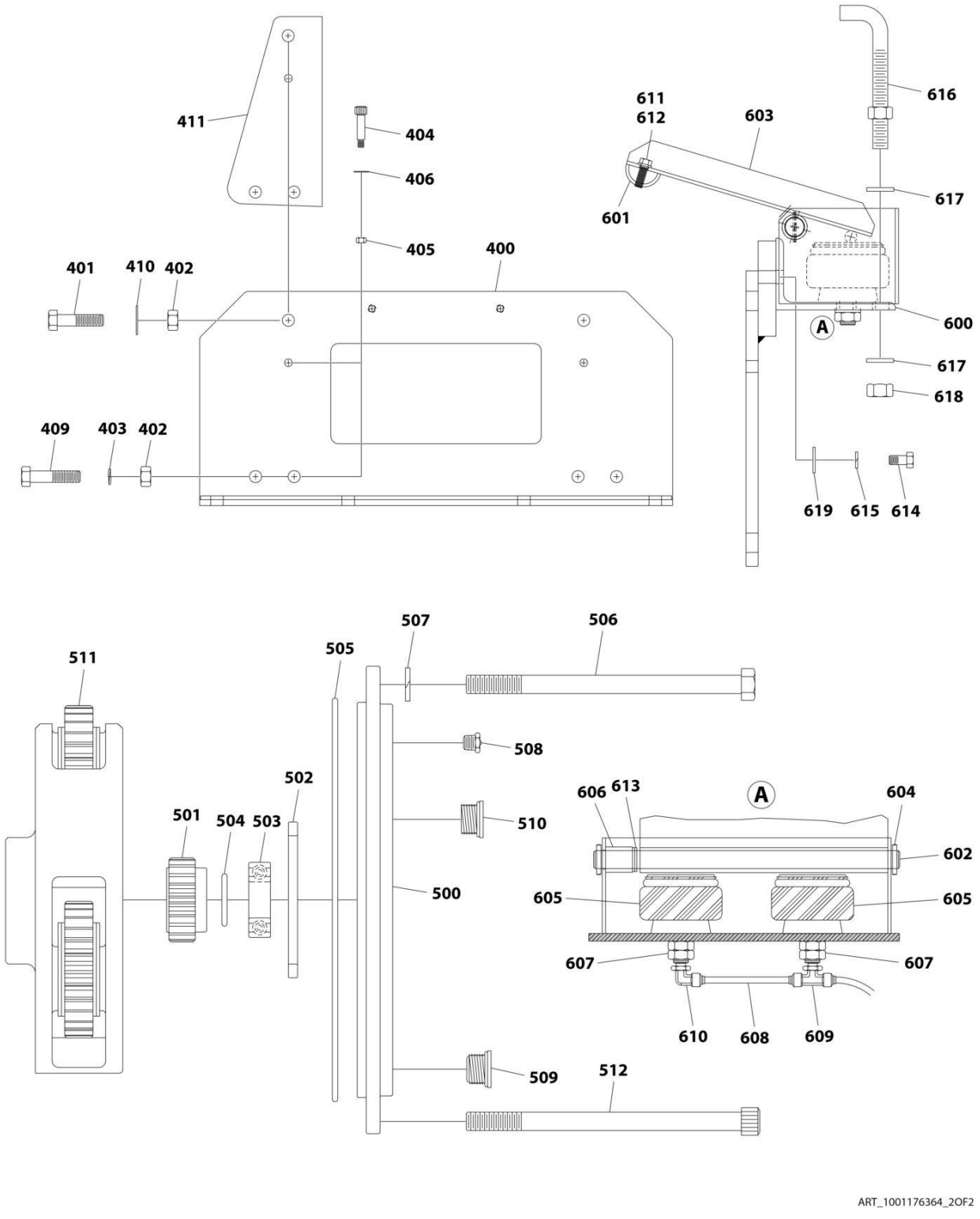
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100	70050381	1	Drum, Winch	
101	70050382	2	Key, Shaft Output	
102	70050383	2	Retaining Ring	
103	9280960002	1	Clip, Cable - Threaded	
104	7110201823	2	Capscrew 5/8 x 2-1/4	
		Ref	Gear End Assembly	
200	9177960001	1	Support, Gear End	
201	9472960036	1	Gear, Ring - 103 Teeth	
202	9281960004	1	Clutch	
203	9698960009	1	Piston	
204	9472960030	1	Carrier Assembly	
205	9806960015	1	Shaft, Output	
206	70050380	1	Gear, Sun	
207	9154960027	1	Ring, Thrust	
208	9082960014	1	Bearing, Roller	
209	9796960087	1	Seal	
210	9754960029	1	Retaining Ring	
211	9698960010	3	Piston Retainer	
212	9843960025	3	Spring	
213	9796960093	2	O-Ring	
214	9796960085	1	O-Ring	
215	9949960013	1	Washer	
216	7690153245	2	Pin	
217	7115150650	6	Capscrew 5/16 x 3/4	
218	9949960050	6	Washer 5/16	
		Ref	Input Shaft Assembly	
300	70050374	1	Input Shaft	
		Ref	Base Mount Assembly	
400	9073960002	2	Base, Mount	
401	7115222450	4	Capscrew 3/4 x 3	
402	7660220001	12	Nut 3/4	
403	7950220000	8	Washer 3/4	
404	9120960020	4	Bolt 1/2 x 2	
405	9661960033	4	Nut 3/8	
406	9949960051	4	Washer 3/8	
407	70050384	1	Plate, Winch Information (Not Shown)	
408	70050147	4	Rivet (Not Shown)	
409	7115222650	8	Capscrew 3/4 x 3-1/4	
410	7950220151	4	Washer 3/4	
411	9831960007	4	Spacer	
412	9577960113	1	Kit, Cable Hold Down (Not Shown)	
		Ref	Gear End Cover Assembly	
500	70050375	1	Cover	
501	70050376	1	Gear, Sun Primary 29 Teeth	
502	9949960013	1	Washer	
503	9082960015	1	Bearing	
504	9754960030	1	Retaining Ring	
505	9796960085	1	O-Ring	
506	70050377	10	Capscrew 1/2 x 7-1/2	
507	7950180000	10	Washer 1/2	
508	9183960001	1	Vent	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
509	9701960012	1	Plug	
510	9701960011	1	Plug	
511	70050378	1	Carrier Assembly	
512	70050379	2	Capscrew 1/2 x 7	
		Ref	Cable Hold Down Assembly	
600	9178960011	1	Bracket	
601	9064960001	1	Bar	
602	9691960019	1	Pin	
603	9020960002	1	Arm, Pivot	
604	9690960039	2	Cotter Pin	
605	9843960023	2	Spring, Air Cushion	
606	9831960009	1	Spacer	
607	7660200200	4	Nut 5/8	
608	9912960010	1	Tubing	
609	7443000205	1	Adapter	
610	7443000204	1	Adapter	
611	9949960050	3	Washer 5/8	
612	9120960063	3	Capscrew 5/8 x 1	
613	9949960012	2	Washer	
614	7115181650	2	Capscrew 1/2 x 1	
615	7950180000	2	Washer 1/2	
616	9120960019	1	Bolt 5/8 x 6-1/2	
617	7950200151	2	Washer 5/8	
618	7660200001	1	Nut 5/8	
619	70050385	2	Washer 1/2	

FIGURE 2-19. DP WINCH 50,000 LBS - RH





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FIGURE 2-19. DP WINCH 50,000 LBS - RH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176364	Ref	DP Winch 50,000 lbs - RH	C
		Ref	Motor End Assembly	
1	70050367	1	Motor, Hydraulic	
2	7118181205	2	Capscrew 1/2 x 1-1/2	
3	7950180800	2	Washer 1/2	
4	70050368	1	Valve, Counterbalance	
5	70050370	4	Capscrew 3/8 x 2-1/2	
6	9571960006	1	Housing, Brake Outer	
7	7118172050	6	Capscrew 7/16 x 2-1/2	
8	7950170000	6	Washer 7/16	
9	9698960008	1	Piston, Brake	
10	9806960013	1	Shaft, Brake	
11	Kit	10	Plate, Friction Disk	
12	Kit	9	Plate, Brake Drive	
13	9691960021	2	Pin	
14	Kit	2	O-Ring	
15	Kit	1	O-Ring	
16	Kit	1	Ring	
17	Kit	1	Ring	
18	70050371	1	Cartridge, Valve	
19	9082960013	2	Bearing	
20	Kit	1	O-Ring	
21	9796960090	1	O-Ring	
22	Kit	12	Spring	
23	7007960040	1	Adapter, Brake	
24	9472960032	1	Gear, Ring 92 Teeth	
25	9472960029	1	Carrier, Planetary Assembly	
26	9472960033	1	Gear, Sun	
27	9806960014	1	Shaft, Extension	
28	9796960085	2	O-Ring	
29	9706960027	1	Plate, Thrust - 45	
30	9082960014	1	Bearing	
31	9796960087	1	Seal	
32	9754960029	1	Retainer Ring	
33	7445040445	3	Adapter	
34	70050372	1	Hose	
35	7115182250	4	Capscrew 1/2 x 2-3/4	
36	7950180000	4	Washer 1/2	
37	9183960001	1	Vent	
38	9701960010	2	Plug	
39	9177960002	1	Support, Motor End	
40	9443960006	1	Adapter (Not Shown)	
41	9935960026	1	Cartridge, Counterbalance	
42	9701960013	1	Plug Assembly	
43	70050373	1	Hose	
44	70050369	2	O-Ring	
45	9796960088	2	O-Ring	
46	9577960119	Ref	Disk and Spring Kit (includes items 11, 12 & 22)	
47	9577960120	Ref	Brake Seal Kit (includes items 14 to 17 & 20)	
		Ref	Drum Assembly	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100	70050381	1	Drum, Winch	
101	70050382	2	Key, Shaft Output	
102	70050383	2	Retaining Ring	
103	9280960002	1	Clip, Cable - Threaded	
104	7110201823	2	Capscrew 5/8 x 2-1/4	
		Ref	Gear End Assembly	
200	9177960001	1	Support, Gear End	
201	9472960036	1	Gear, Ring - 103 Teeth	
202	9281960004	1	Clutch	
203	9698960009	1	Piston	
204	9472960030	1	Carrier Assembly	
205	9806960015	1	Shaft, Output	
206	70050380	1	Gear, Sun	
207	9154960027	1	Ring, Thrust	
208	9082960014	1	Bearing, Roller	
209	9796960087	1	Seal	
210	9754960029	1	Retaining Ring	
211	9698960010	3	Piston Retainer	
212	9843960025	3	Spring	
213	9796960093	2	O-Ring	
214	9796960085	1	O-Ring	
215	9949960013	1	Washer	
216	7690153245	2	Pin	
217	7115150650	6	Capscrew 5/16 x 3/4	
218	9949960050	6	Washer 5/16	
		Ref	Input Shaft Assembly	
300	70050374	1	Input Shaft	
		Ref	Base Mount Assembly	
400	9073960002	2	Base, Mount	
401	7115222450	4	Capscrew 3/4 x 3	
402	7660220001	12	Nut 3/4	
403	7950220000	8	Washer 3/4	
404	9120960020	4	Bolt 1/2 x 2	
405	9661960033	4	Nut 3/8	
406	9949960051	4	Washer 3/8	
407	70050384	1	Plate, Winch Information (Not Shown)	
408	70050147	4	Rivet (Not Shown)	
409	7115222650	8	Capscrew 3/4 x 3-1/4	
410	7950220151	4	Washer 3/4	
411	9831960007	4	Spacer	
412	9577960113	1	Kit, Cable Hold Down (Not Shown)	
		Ref	Gear End Cover Assembly	
500	70050375	1	Cover	
501	70050376	1	Gear, Sun Primary 29 Teeth	
502	9949960013	1	Washer	
503	9082960015	1	Bearing	
504	9754960030	1	Retaining Ring	
505	9796960085	1	O-Ring	
506	70050377	10	Capscrew 1/2 x 7-1/2	
507	7950180000	10	Washer 1/2	
508	9183960001	1	Vent	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
509	9701960012	1	Plug	
510	9701960011	1	Plug	
511	70050378	1	Carrier Assembly	
512	70050379	2	Capscrew 1/2 x 7	
		Ref	Cable Hold Down Assembly	
600	9178960011	1	Bracket	
601	9064960001	1	Bar	
602	9691960019	1	Pin	
603	9020960002	1	Arm, Pivot	
604	9690960039	2	Cotter Pin	
605	9843960023	2	Spring, Air Cushion	
606	9831960009	1	Spacer	
607	7660200200	4	Nut 5/8	
608	9912960010	1	Tubing	
609	7443000205	1	Adapter	
610	7443000204	1	Adapter	
611	9949960050	3	Washer 5/8	
612	9120960063	3	Capscrew 5/8 x 1	
613	9949960012	2	Washer	
614	7115181650	2	Capscrew 1/2 x 1	
615	7950180000	2	Washer 1/2	
616	9120960019	1	Bolt 5/8 x 6-1/2	
617	7950200151	2	Washer 5/8	
618	7660200001	1	Nut 5/8	
619	70050385	2	Washer 1/2	

FIGURE 2-20. DRAG WINCH INSTALLATION - DP

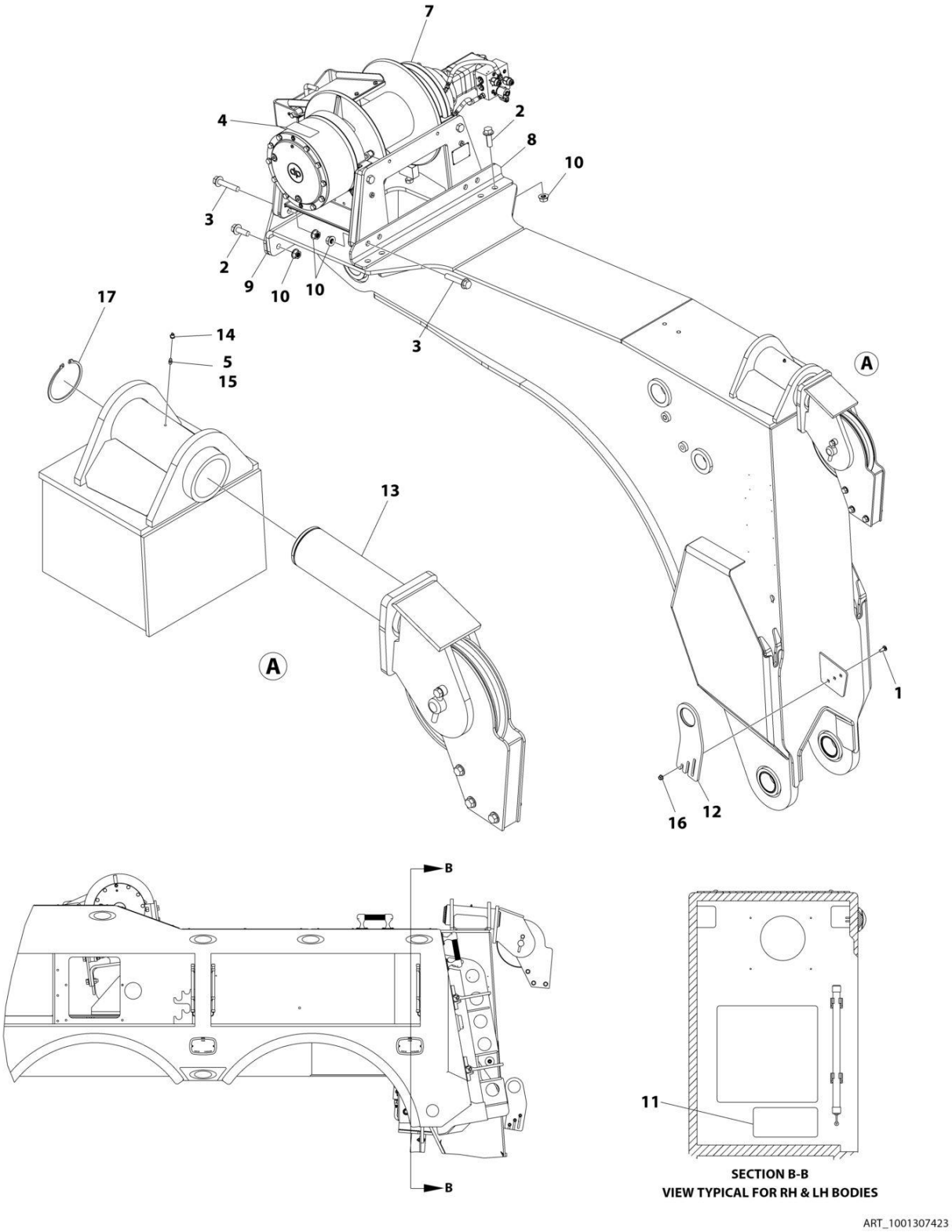


FIGURE 2-20. DRAG WINCH INSTALLATION - DP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307423	Ref	DRAG WINCH INSTALLATION	A
1	0630485	3	Bolt	
2	0812218	8	Screw 3/4 x 2-1/4	
3	0812232	8	Screw 3/4 x 4	
4	1001142812	1	Decal - Pinch Hazard	
5	1001152707	AR	Lubricant	
6	1001166518	1	Hydraulic Hose Installation (Not Shown - See Separate Breakdown in HYDRAULIC Section)	
7	1001176364	1	Winch Assembly DP50 (See Separate Breakdown in this Section)	
8	1001224056	1	Bracket	
9	1001226717	1	Plate	
10	1001227079	16	Nut 3/4	
11	1001227308	2	Decal - Drag Winch Loading	
12	1001257980	1	Plate, Tieback	
13	3249000009	1	Support, Sheave	
14	7253000002	1	Cap, Grease	
15	7440030000	1	Fitting, Grease	
16	7660162301	3	Nut 3/8	
17	7754000059	1	Ring, Retaining	

FIGURE 2-21. DRAG WINCH INSTALLATION - RAMSEY

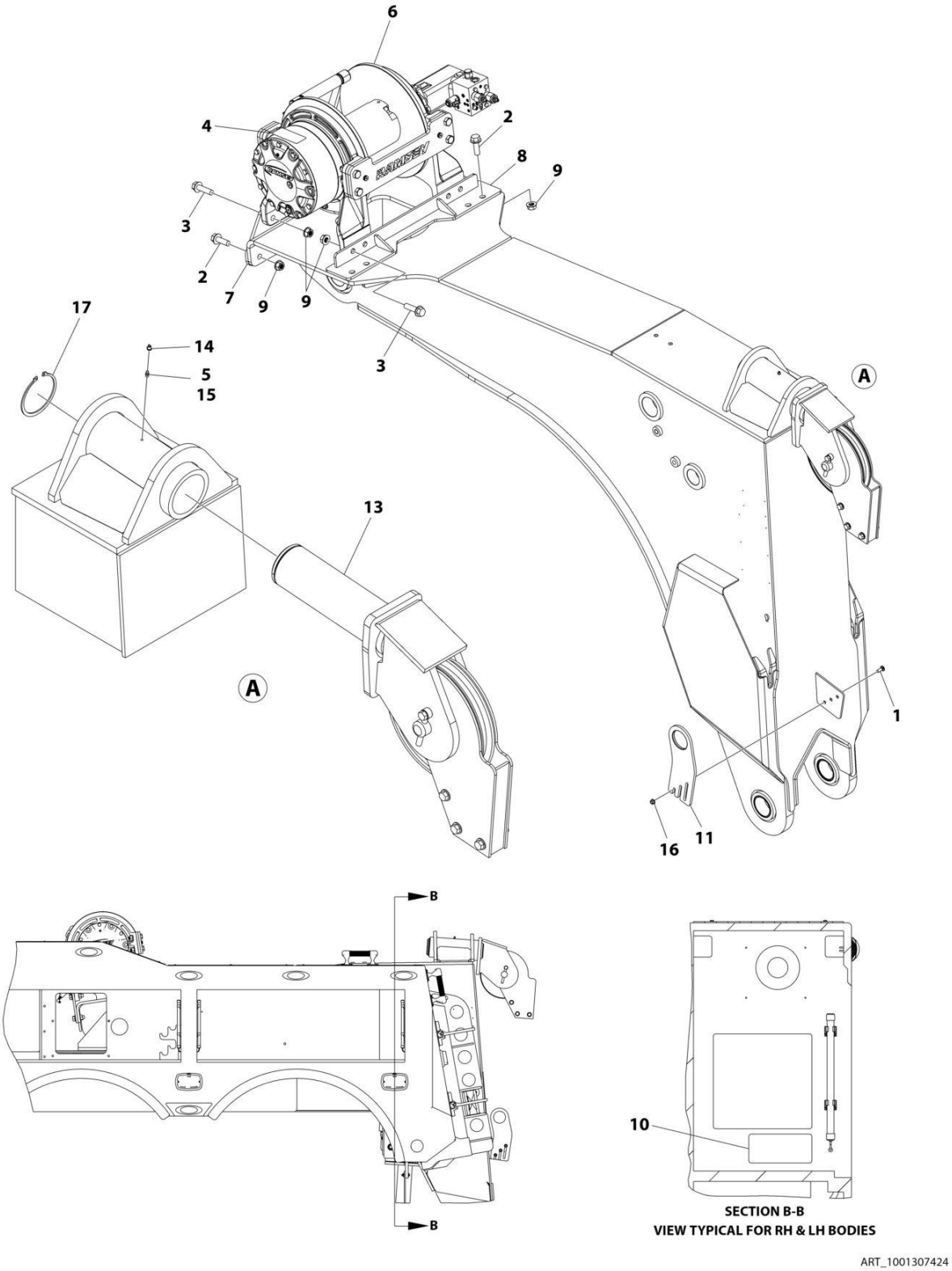


FIGURE 2-21. DRAG WINCH INSTALLATION - RAMSEY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307424	Ref	DRAG WINCH INSTALLATION	A
1	0630485	3	Bolt	
2	0812218	8	Screw 3/4 x 2-1/4	
3	0812232	8	Screw 3/4 x 4	
4	1001142812	1	Decal - Pinch Hazard	
5	1001152707	AR	Lubricant	
6	1001226712	1	Winch, Ramsey (See Separate Breakdown in this Section)	
7	1001226713	1	Plate	
8	1001226714	1	Plate	
9	1001227079	16	Nut 3/4	
10	1001227308	2	Decal - Drag Winch Loading	
11	1001257980	1	Plate, Tieback	
12	1001227081	1	Hydraulic Hose Installation (Not Shown - See Separate Breakdown in HYDRAULIC Section)	
13	3249000009	1	Support, Sheave	
14	7253000002	1	Cap, Grease	
15	7440030000	1	Fitting, Grease	
16	7660162301	3	Nut 3/8	
17	7754000059	1	Ring, Retaining	

FIGURE 2-22. HEADBOARD INSTALLATION

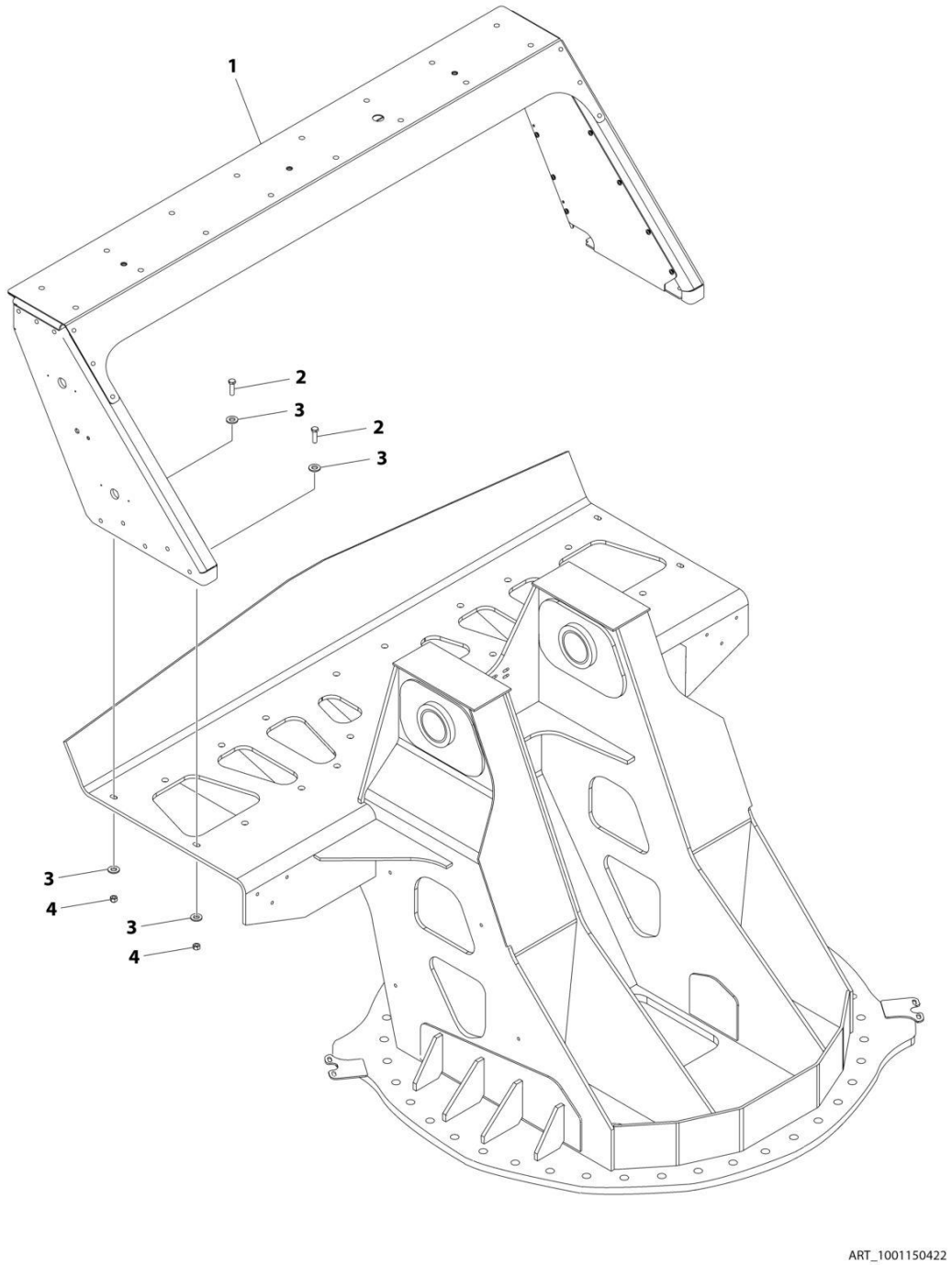


FIGURE 2-22. HEADBOARD INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150422	Ref	Headboard Installation	A
1	1001150180	1	Headboard Assembly (See Separate Breakdown in this Section)	
2	7115181450	4	Capscrew 1/2 x 1-3/4	
3	7950180161	8	Washer 1/2	
4	7660182601	4	Nut 1/2	

FIGURE 2-23. HEADBOARD ASSEMBLY

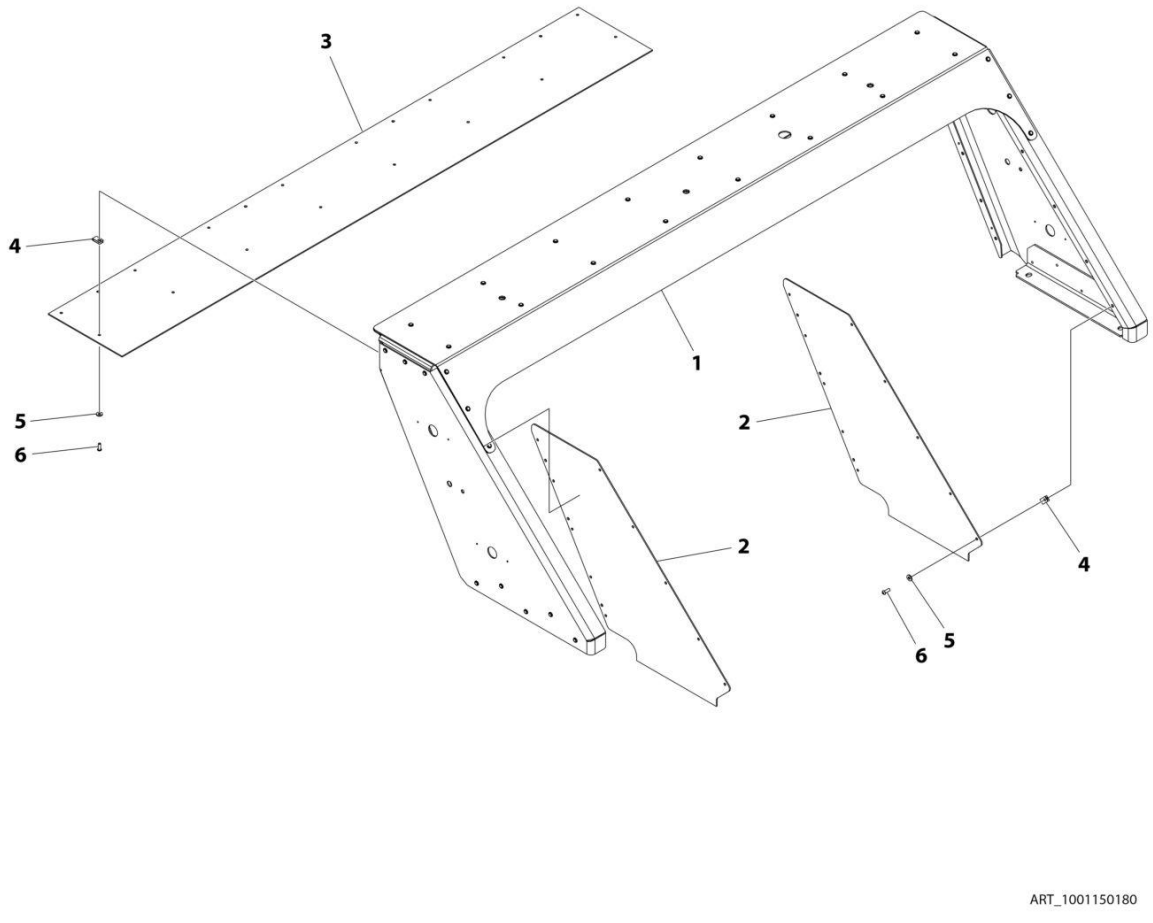


FIGURE 2-23. HEADBOARD ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001150180	Ref	Headboard Assembly	B
1	1001150151	1	Headboard Bondment	
2	1001129818	2	Panel, Headboard Cover LH and RH	
3	1001129820	1	Panel, Headboard Cover Top	
4	7661000019	36	U-Nut 1/4	
5	7950140143	36	Washer 1/4	
6	7114140618	36	Capscrew 1/4	

FIGURE 2-24. HOUSE LOCK INSTALLATION

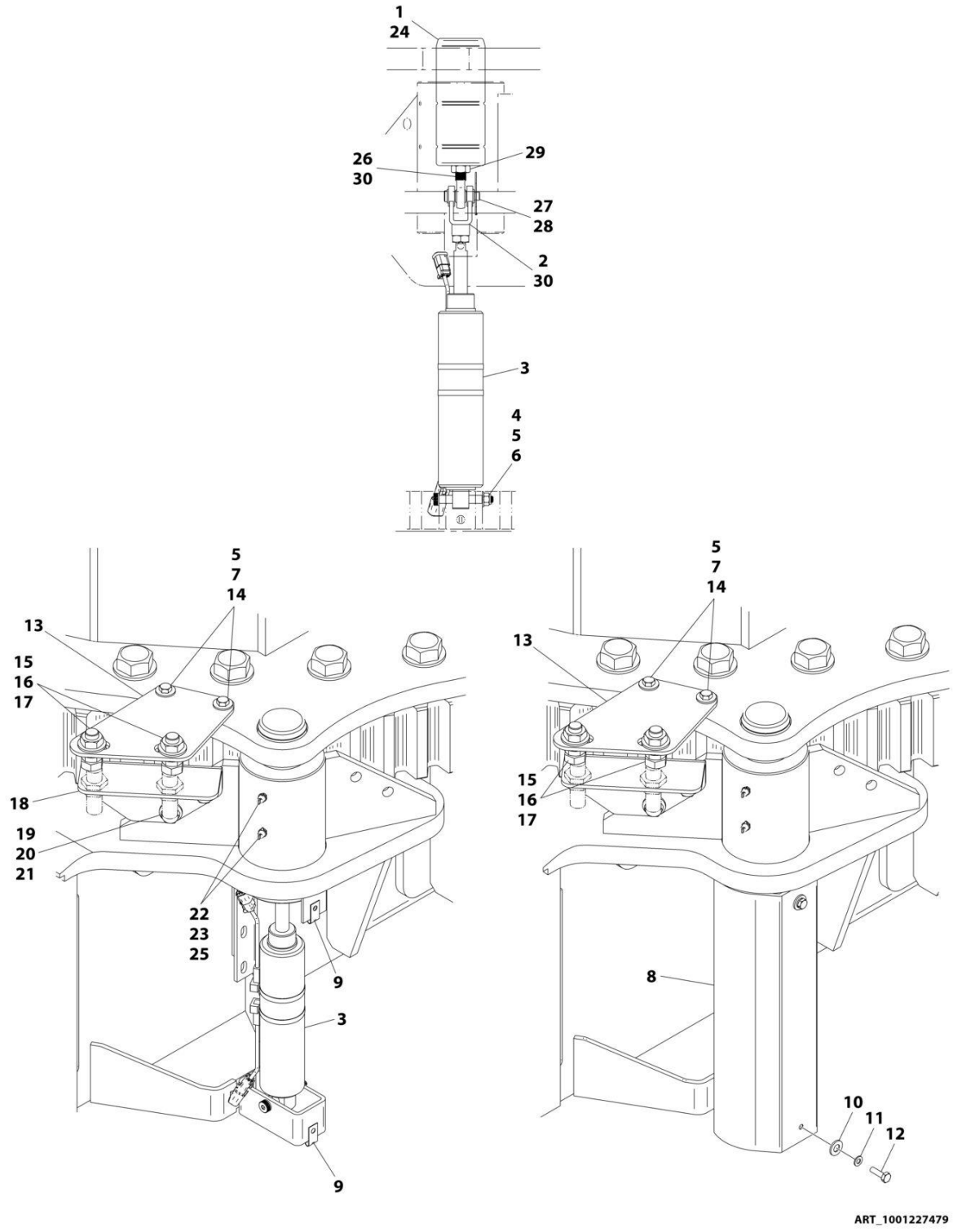


FIGURE 2-24. HOUSE LOCK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227479	Ref	HOUSE LOCK INSTALLATION	C
1	1001227480	1	Pin	
2	1001238939	1	Clevis	
3	1001227482	1	Cylinder	
4	1001227657	1	Bolt 3/8 x 2	
5	7950150143	5	Washer 5/16	
6	7660152604	1	Nut 5/16	
7	0641508	4	Bolt 5/16 x 1	
8	1001227485	1	Cover	
9	7661000019	2	U-Nut 1/4	
10	7950140153	3	Washer 1/4	
11	7950140003	2	Washer 1/4	
12	7114140650	2	Bolt 1/4 x 3/4	
13	1001238669	2	Plate	
14	4761500	4	Washer 5/16	
15	4712000	8	washer 5/8	
16	7105201250	4	Bolt 5/8 x 1-1/2	
17	3322002	8	Nut 5/8	
18	1001238670	1	Plate	
19	4711800	4	Washer 1/2	
20	0651812	2	Bolt 1/2 x 1-1/2	
21	7660182631	2	Nut 1/2	
22	7440030000	2	Grease Fitting	
23	7253000002	2	Grease Fitting Cap	
24	3020039	AR	Lubricant	
25	3020029	AR	Bearing Grease	
26	1001238873	1	Ball Joint Pin	
27	1001238874	1	Pin	
28	1001238941	2	Sleeve	
29	7660180234	1	Nut	
30	0100011	AR	Compound locking	

FIGURE 2-25. PYLON VANITY COVERS BLANK INSTALLATION

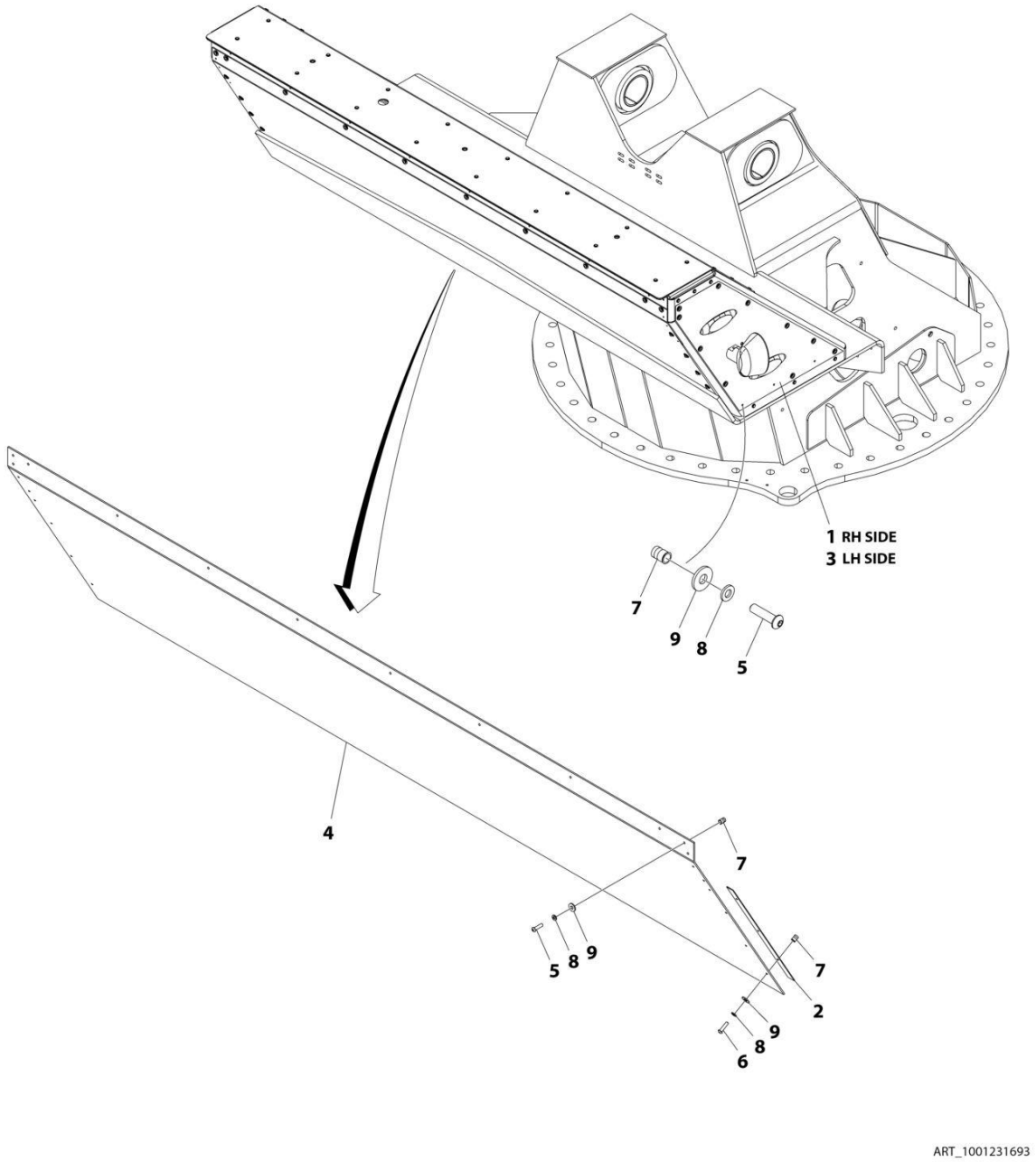
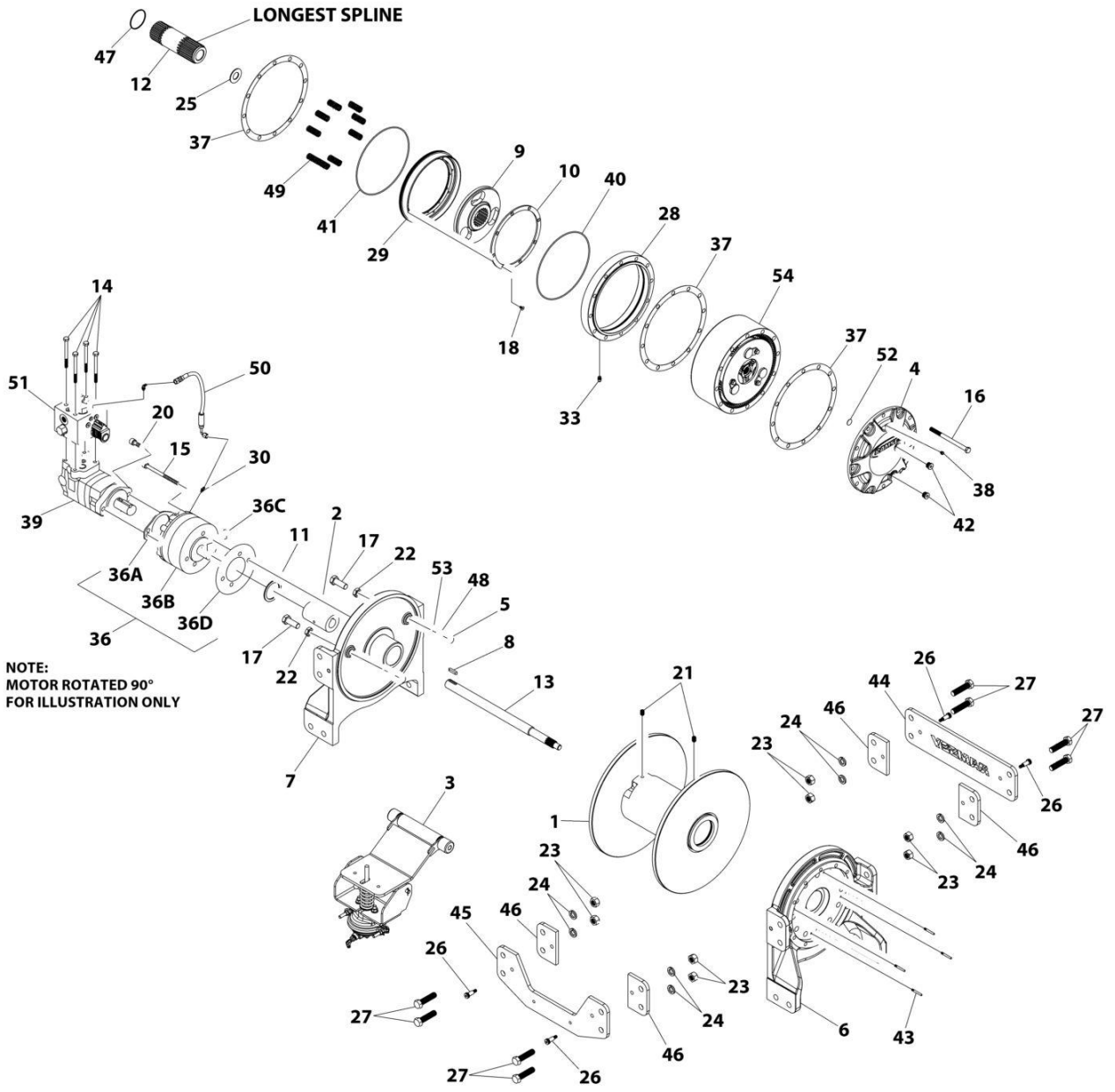


FIGURE 2-25. PYLON VANITY COVERS BLANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231693	Ref	Pylon Vanity Covers Blank Installation	A
1	1001219186	1	Plate RH Side	
2	1001219187	2	Shim	
3	1001219194	1	Plate LH Side	
4	1001231695	1	Plate	
5	7114140518	34	Capscrew 1/4 x 5/8	
6	7114140618	6	Capscrew 1/4 x 3/4	
7	7413000002	40	Nutsert 1/4	
8	7950140003	40	Washer 1/4	
9	7950140143	40	Washer 1/4	
10	8892040001	5.33 ft	Tape (Not Shown)	

FIGURE 2-26. RAMSEY HERCULES - 50,000 LBS RH



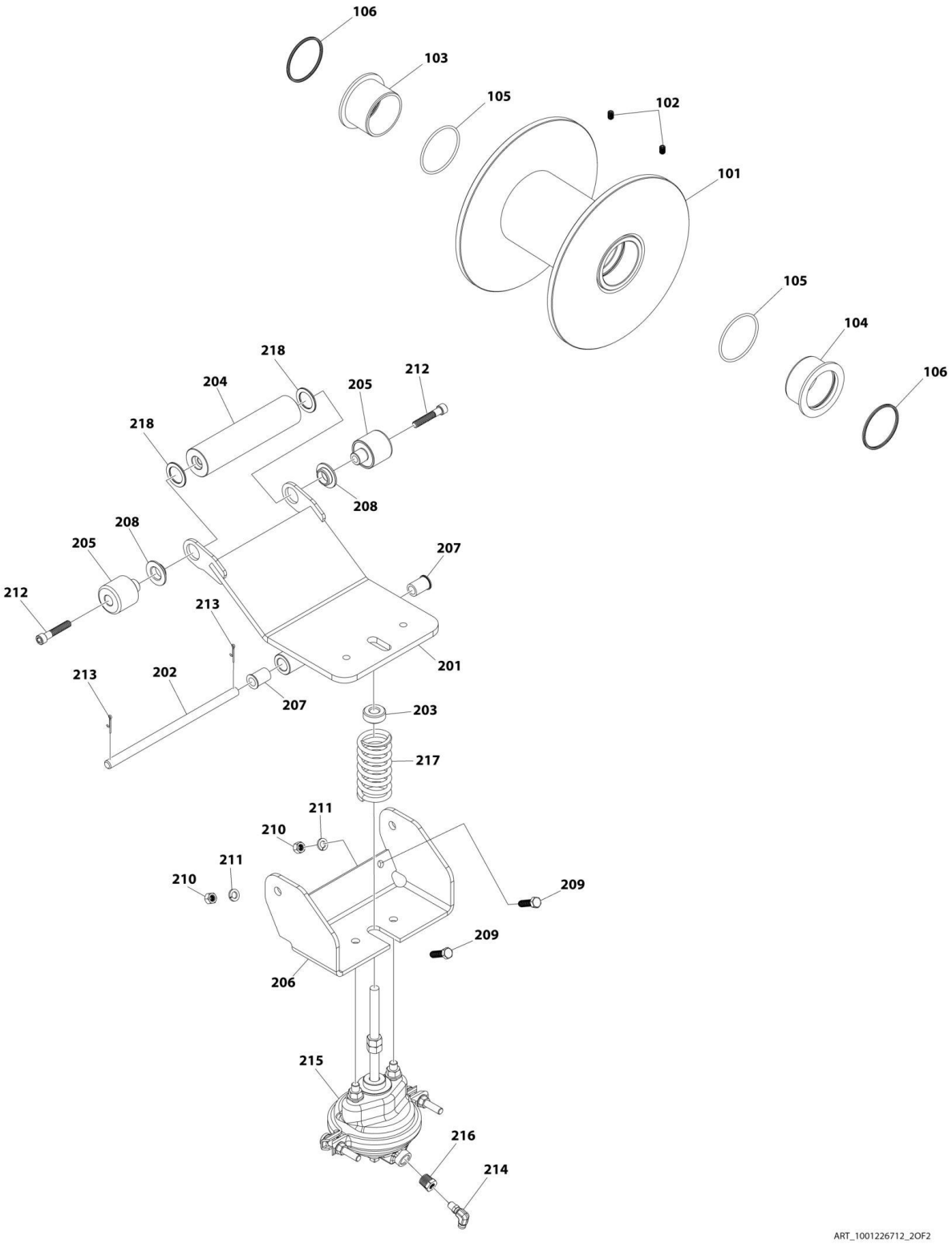
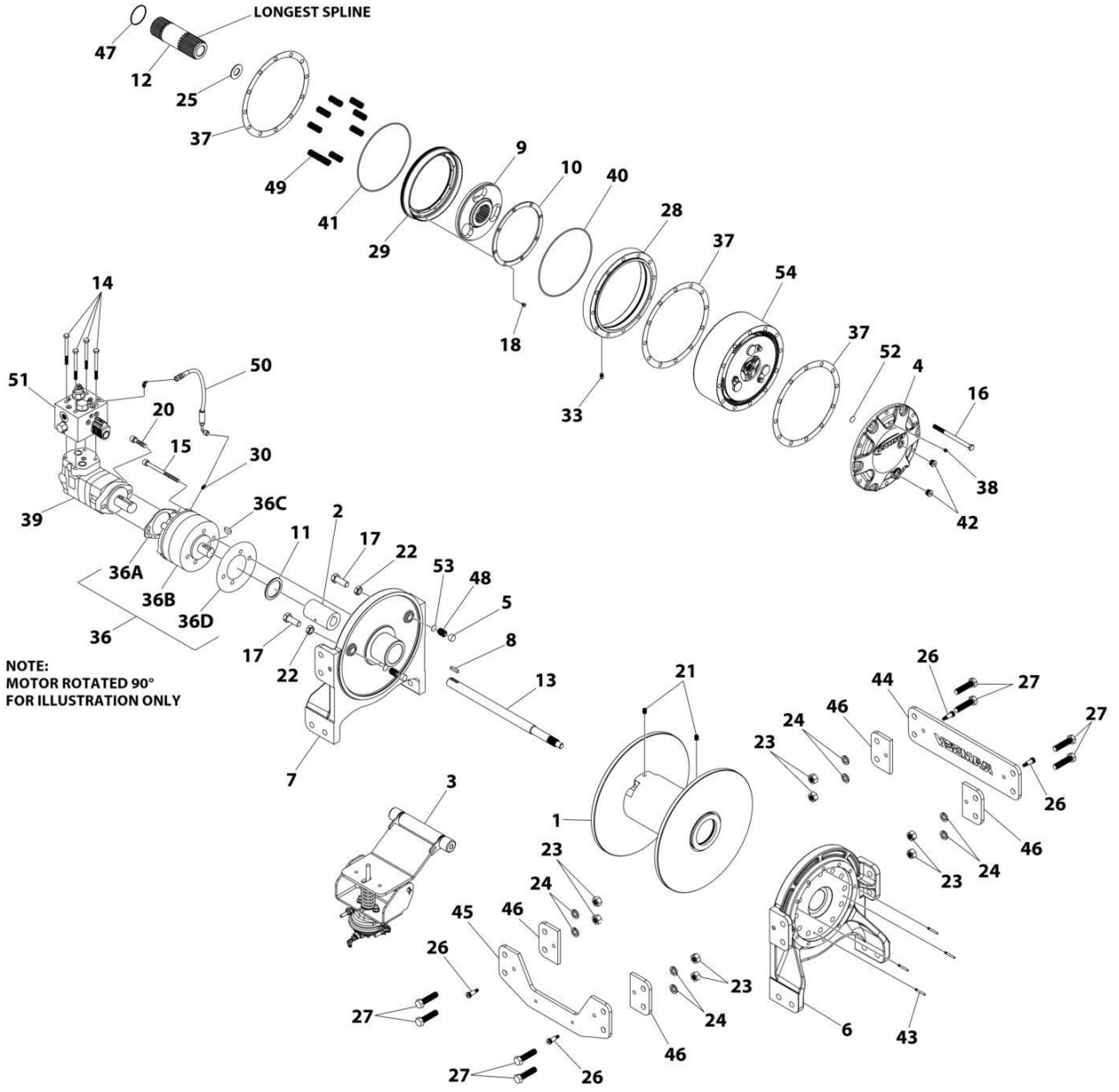

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FIGURE 2-26. RAMSEY HERCULES - 50,000 LBS RH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001226712	Ref	WINCH ASSEMBLEY - 50K RAMSY - RH	B
1	70070183	1	Assembly, Drum(Includes Items 101-106)	
2	70070184	1	Assembly, Motor Coupling(Includes Items 201-218)	
3	70052915	1	Assembly, Cable Tensioner	
4	70070185	1	Cover, Gear Housing	
5	70070186	2	Plug	
6	70070187	1	Bearing, Gear End	
7	70070188	1	Bearing, Motor End	
8	70050338	2	Key	
9	70050339	1	Clutch	
10	70050340	1	Ring, Retaining	
11	70050396	1	Plate, Retainer	
12	70050342	1	Coupling, Output	
13	70050341	1	Shaft, Input	
14	7105163650	4	Capscrew 3/8 X 4	
15	70050346	2	Capscrew 1/2 X 3-1/2	
16	7115185650	12	Capscrew 1/2 X 7	
17	70070189	2	Capscrew 3/4 X 2	
18	70050347	8	Bolt 1/4 X 2	
20	9120960024	2	Capscrew 1/2 X 1-1/4	
21	7785181200	2	Setscrew 1/2 X 3/4	
22	70050365	2	Nut 3/4	
23	70070190	8	Nut 3/4	
24	70070191	8	Washer 3/4	
25	70050348	1	Washer, Thrust	
26	70070192	4	Bolt 1/2 X 1-1/4	
27	70070193	8	Capscrew 3/4 X 3	
28	70050349	1	Cylinder, Clutch	
29	70050350	1	Piston, Clutch	
30	9443960019	1	Fitting	
33	70053539	1	Fitting	
36	70050351	1	Assembly, Brake	
36A	See Note	NSS	Motor and Gasket (Note: Purchase PN 70050351)	
36B	See Note	NSS	Brake (Note: Purchase PN 70050351)	
36C	See Note	NSS	Key (Note: Purchase PN 70050351)	
36D	See Note	NSS	Adapter (Note: Purchase PN 70050351)	
37	70053529	3	Gasket	
38	9970456008	1	Fitting	
39	70050352	1	Motor, Hydraulic	
40	70050353	1	O-Ring	
41	70070194	1	O-Ring	
42	70070195	2	Plug	
43	70070196	4	Pin	
44	70070197	1	Plate, Logo	
45	70070198	1	Plate	
46	70070199	4	Spacer	
47	70070200	1	Ring, Retaining	
48	70070201	2	Spring	
49	70050357	9	Spring	
50	70070202	1	Hose	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	70053282	1	Valve, Motor Control	
52	70070203	1	Disc, Thrust	
53	70070204	2	Spacer	
54	70050359	1	Assembly, Gearbox	
		Ref	DRUM ASSEMBLY	
101	70070205	1	Drum	
102	7785181200	2	Setscrew 1/2 X 3/4	
103	70053531	1	Bushing	
104	70053532	1	Bushing	
105	70053533	2	O-Ring	
106	70070206	2	Ring, Quad	
		Ref	CABLE TENSIONER ASSEMBLY	
201	70053534	1	Arm, Lever	
202	9691960032	1	Pin	
203	70053535	1	Retainer	
204	70053536	1	Roller	
205	70053537	2	Roller	
206	70070207	1	Bracket	
207	70053538	2	Bushing	
208	70053301	2	Bushing, Tensioner	
209	70050364	2	Capscrew 3/8 X 1-1/4	
210	10050363	2	Nut 3/8	
211	9970418177	2	Washer 3/8	
212	70053302	2	Capscrew	
213	4691960030	2	Pin, Cotter	
214	70053539	1	Fitting	
215	70053540	1	Cylinder, Air	
216	70053541	1	Bushing	
217	70053542	1	Spring	
218	70053303	2	Washer	

FIGURE 2-27. RAMSEY HERCULES - 50,000 LBS LH



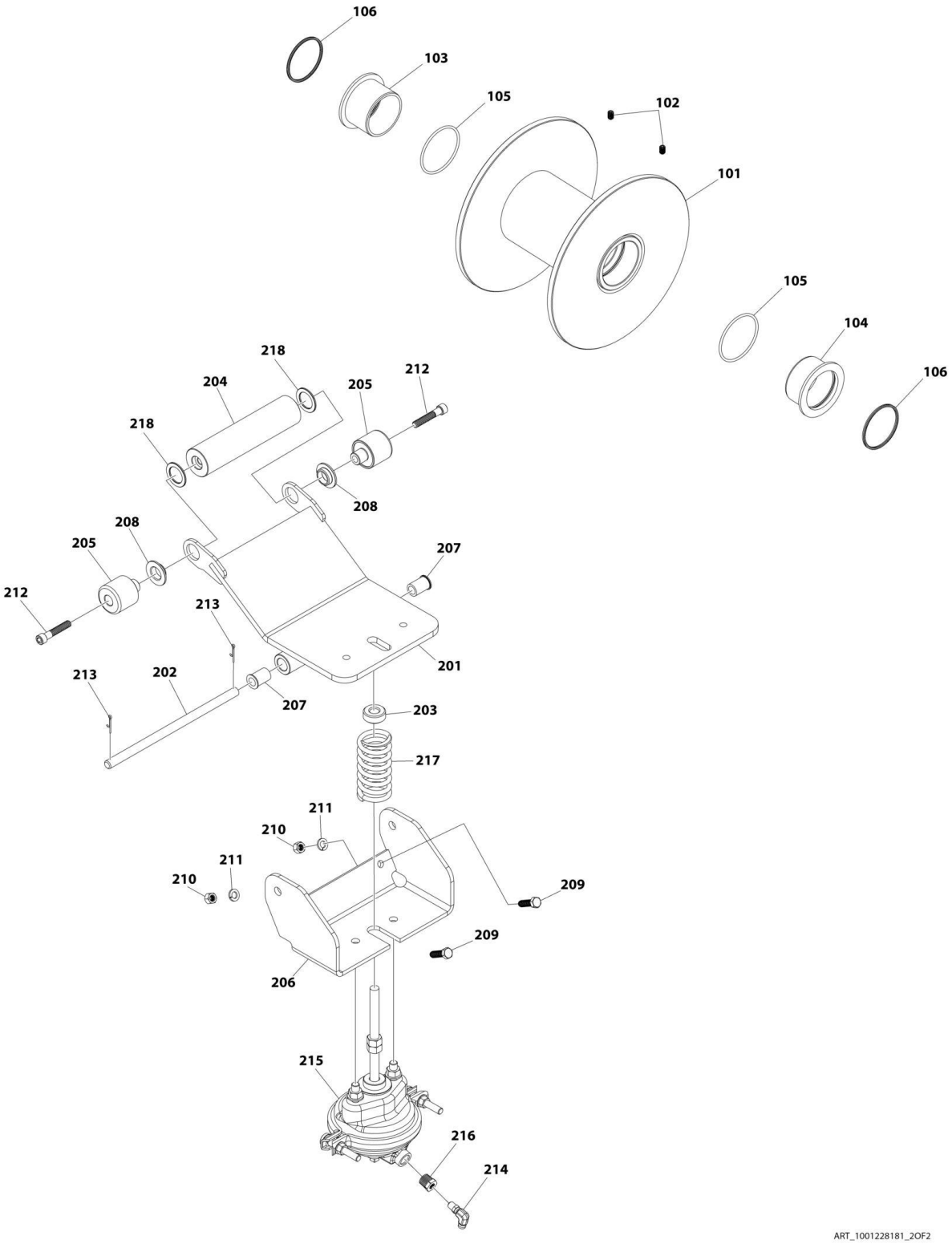
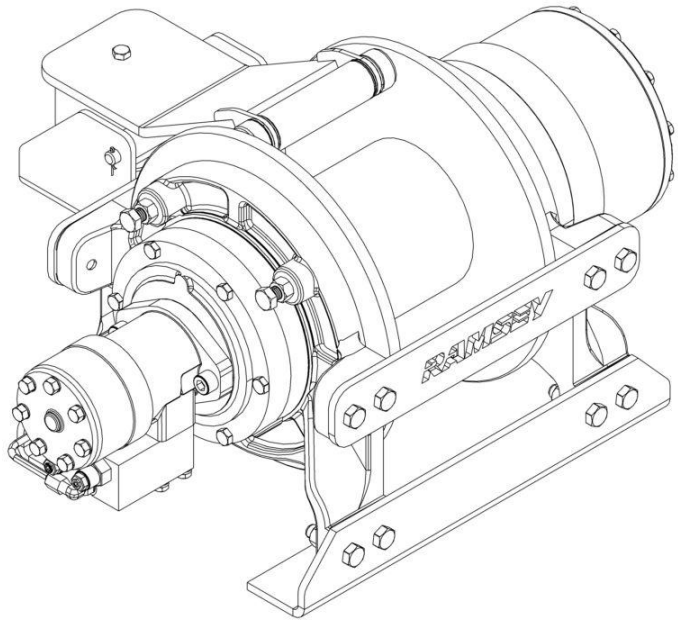

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FIGURE 2-27. RAMSEY HERCULES - 50,000 LBS LH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228181	Ref	WINCH ASSEMBLEY - 50K RAMSY - LH	B
1	70070183	1	Assembly, Drum(Includes Items 101-106)	
2	70070184	1	Assembly, Motor Coupling(Includes Items 201-218)	
3	70052915	1	Assembly, Cable Tensioner	
4	70070185	1	Cover, Gear Housing	
5	70070186	2	Plug	
6	70070187	1	Bearing, Gear End	
7	70070188	1	Bearing, Motor End	
8	70050338	2	Key	
9	70050339	1	Clutch	
10	70050340	1	Ring, Retaining	
11	70050396	1	Plate, Retainer	
12	70050342	1	Coupling, Output	
13	70050341	1	Shaft, Input	
14	7105163650	4	Capscrew 3/8 X 4	
15	70050346	2	Capscrew 1/2 X 3-1/2	
16	7115185650	12	Capscrew 1/2 X 7	
17	70070189	2	Capscrew 3/4 X 2	
18	70050347	8	Bolt 1/4 X 2	
20	9120960024	2	Capscrew 1/2 X 1-1/4	
21	7785181200	2	Setscrew 1/2 X 3/4	
22	70050365	2	Nut 3/4	
23	70070190	8	Nut 3/4	
24	70070191	8	Washer 3/4	
25	70050348	1	Washer, Thrust	
26	70070192	4	Bolt 1/2 X 1-1/4	
27	70070193	8	Capscrew 3/4 X 3	
28	70050349	1	Cylinder, Clutch	
29	70050350	1	Piston, Clutch	
30	9443960019	1	Fitting	
33	70053539	1	Fitting	
36	70050351	1	Assembly, Brake	
36A	See Note	NSS	Motor and Gasket (Note: Purchase PN 70050351)	
36B	See Note	NSS	Brake (Note: Purchase PN 70050351)	
36C	See Note	NSS	Key (Note: Purchase PN 70050351)	
36D	See Note	NSS	Adapter (Note: Purchase PN 70050351)	
37	70053529	3	Gasket	
38	9970456008	1	Fitting	
39	70050352	1	Motor, Hydraulic	
40	70050353	1	O-Ring	
41	70070194	1	O-Ring	
42	70070195	2	Plug	
43	70070196	4	Pin	
44	70070197	1	Plate, Logo	
45	70070198	1	Plate	
46	70070199	4	Spacer	
47	70070200	1	Ring, Retaining	
48	70070201	2	Spring	
49	70050357	9	Spring	
50	70070202	1	Hose	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	70053282	1	Valve, Motor Control	
52	70070203	1	Disc, Thrust	
53	70070204	2	Spacer	
54	70050359	1	Assembly, Gearbox	
		Ref	DRUM ASSEMBLY	
101	70070205	1	Drum	
102	7785181200	2	Setscrew 1/2 X 3/4	
103	70053531	1	Bushing	
104	70053532	1	Bushing	
105	70053533	2	O-Ring	
106	70070206	2	Ring, Quad	
		Ref	CABLE TENSIONER ASSEMBLY	
201	70053534	1	Arm, Lever	
202	9691960032	1	Pin	
203	70053535	1	Retainer	
204	70053536	1	Roller	
205	70053537	2	Roller	
206	70070207	1	Bracket	
207	70053538	2	Bushing	
208	70053301	2	Bushing, Tensioner	
209	70050364	2	Capscrew 3/8 X 1-1/4	
210	10050363	2	Nut 3/8	
211	9970418177	2	Washer 3/8	
212	70053302	2	Capscrew	
213	4691960030	2	Pin, Cotter	
214	70053539	1	Fitting	
215	70053540	1	Cylinder, Air	
216	70053541	1	Bushing	
217	70053542	1	Spring	
218	70053303	2	Washer	

FIGURE 2-28. WINCH ASSEMBLY - RAMSEY LH

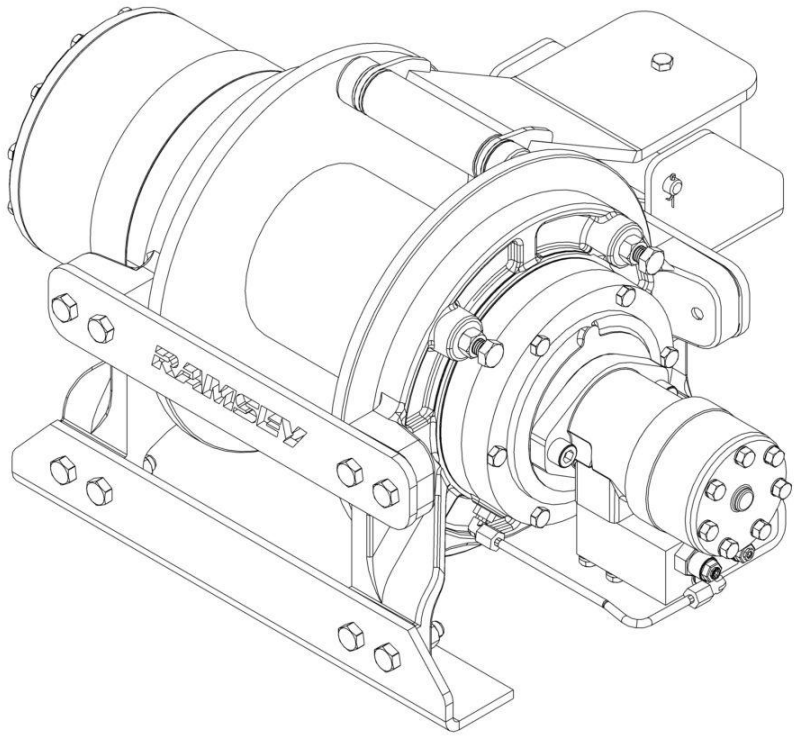


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FIGURE 2-28. WINCH ASSEMBLY - RAMSEY LH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277974	Ref	WINCH ASSEMBLY	A
	See Note	Ref	Note: No Service Parts Available at Time of Printing	

FIGURE 2-29. WINCH ASSEMBLY - RAMSEY RH



ART_1001277975

FIGURE 2-29. WINCH ASSEMBLY - RAMSEY RH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001277975	Ref	WINCH ASSEMBLY	A
	See Note	Ref	Note: No Service Parts Available at Time of Printing	

SECTION 3 - UNDERLIFT

SECTION 3 - UNDERLIFT

FIGURE 3-1. UNDERLIFT INSTALLATION - UL530

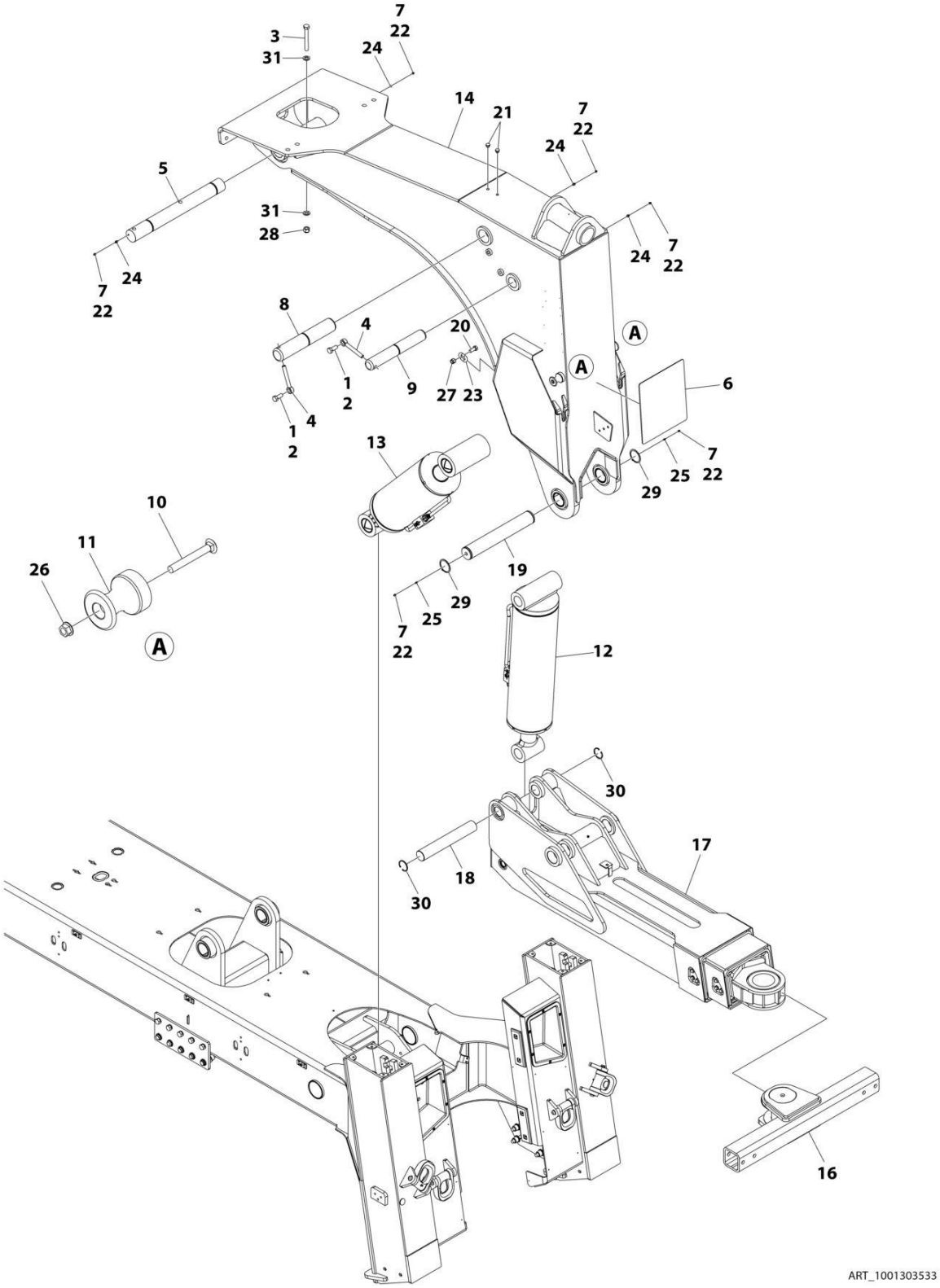


FIGURE 3-1. UNDERLIFT INSTALLATION - UL530

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303533	Ref	UNDERLIFT INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0642214	2	Bolt 3/4 x 1-3/4	
3	0682248	1	Bolt 3/4 x 6	
4	3841287	2	Rod, Keeper	
5	1001128697	1	Pin	
6	1001151050	1	Decal - Knee Boom Wear	
7	1001152707	AR	Lubricant	
8	1001222351	1	Pin	
9	1001222355	1	Pin	
10	1001251627	2	Bolt, Carriage 3/8 x 3	
11	1001251870	2	Roller, Chain	
12	1001283839	1	Cylinder Assembly - Tilt (See Separate Breakdown in this Section)	
13	1001284481	1	Cylinder Assembly - Lift (See Separate Breakdown in this Section)	
14	1001295549	1	Boom, Knee	
15	1001295911	Ref	Hydraulic Tube Installation (See Separate Breakdown in HYDRAULIC Section)	
16	2503880012	Ref	Crosstube Installation (See Separate Breakdown in this Section)	
17	3507100001	1	Underlift Assembly (See Separate Breakdown in this Section)	
18	4691000290	1	Pin	
19	4691000291	1	Pin	
20	7115201250	2	Bolt 5/8 x 1-1/2	
21	7189000017	2	Bumper	
22	7253000002	6	Cap, Grease	
23	7262000025	2	Chain	
24	7440000000	4	Fitting, Grease	
25	7440030000	2	Fitting, Grease	
26	7660162301	2	Nut 3/8	
27	7660202601	2	Nut 5/8	
28	7660222601	1	Nut 3/4	
29	7754000018	2	Ring, Retaining	
30	7754000051	2	Ring, Retaining	
31	7950220141	2	Washer 3/4	

FIGURE 3-2. UNDERLIFT INSTALLATION - UL565 (COACH)

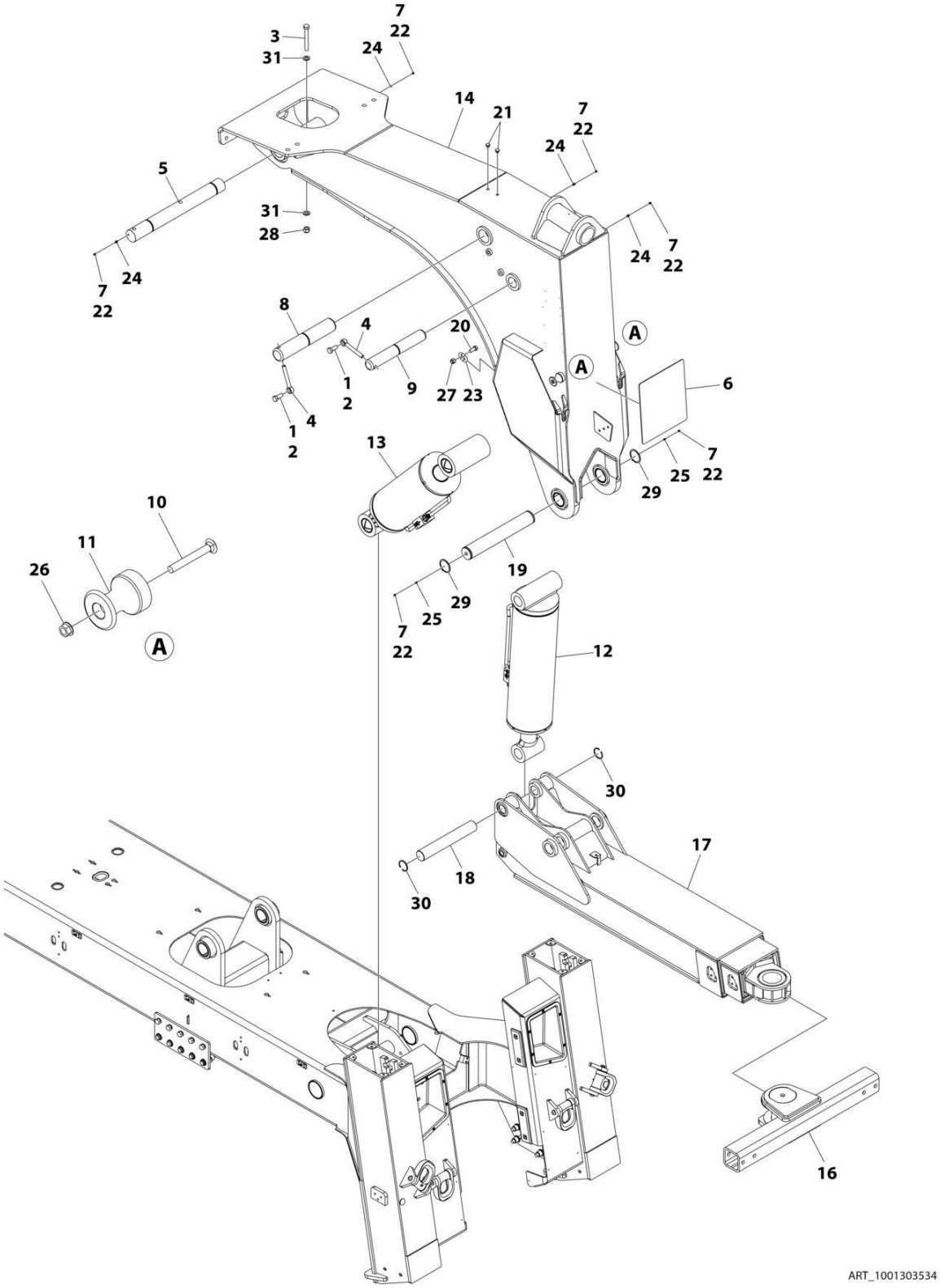


FIGURE 3-2. UNDERLIFT INSTALLATION - UL565 (COACH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303534	Ref	UNDERLIFT INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0642214	2	Bolt 3/4 x 1-3/4	
3	0682248	1	Bolt 3/4 x 6	
4	3841287	2	Rod, Keeper	
5	1001128697	1	Pin	
6	1001151050	1	Decal - Knee Boom Wear	
7	1001152707	AR	Lubricant	
8	1001222351	1	Pin	
9	1001222355	1	Pin	
10	1001251627	2	Bolt, Carriage 3/8 x 3	
11	1001251870	2	Roller, Chain	
12	1001283839	1	Cylinder Assembly - Tilt (See Separate Breakdown in this Section)	
13	1001284481	1	Cylinder Assembly - Lift (See Separate Breakdown in this Section)	
14	1001295549	1	Boom, Knee	
15	1001295911	Ref	Hydraulic Tube Installation (See Separate Breakdown in HYDRAULIC Section)	
16	2503880012	Ref	Crosstube Installation (See Separate Breakdown in this Section)	
17	3170000407	1	Underlift Assembly (See Separate Breakdown in this Section)	
18	4691000290	1	Pin	
19	4691000291	1	Pin	
20	7115201250	2	Bolt 5/8 x 1-1/2	
21	7189000017	2	Bumper	
22	7253000002	6	Cap, Grease	
23	7262000025	2	Chain	
24	7440000000	4	Fitting, Grease	
25	7440030000	2	Fitting, Grease	
26	7660162301	2	Nut 3/8	
27	7660202601	2	Nut 5/8	
28	7660222601	1	Nut 3/4	
29	7754000018	2	Ring, Retaining	
30	7754000051	2	Ring, Retaining	
31	7950220141	2	Washer 3/4	

FIGURE 3-3. UNDERLIFT INSTALLATION - UL565 (COACH - 4 PIECE)

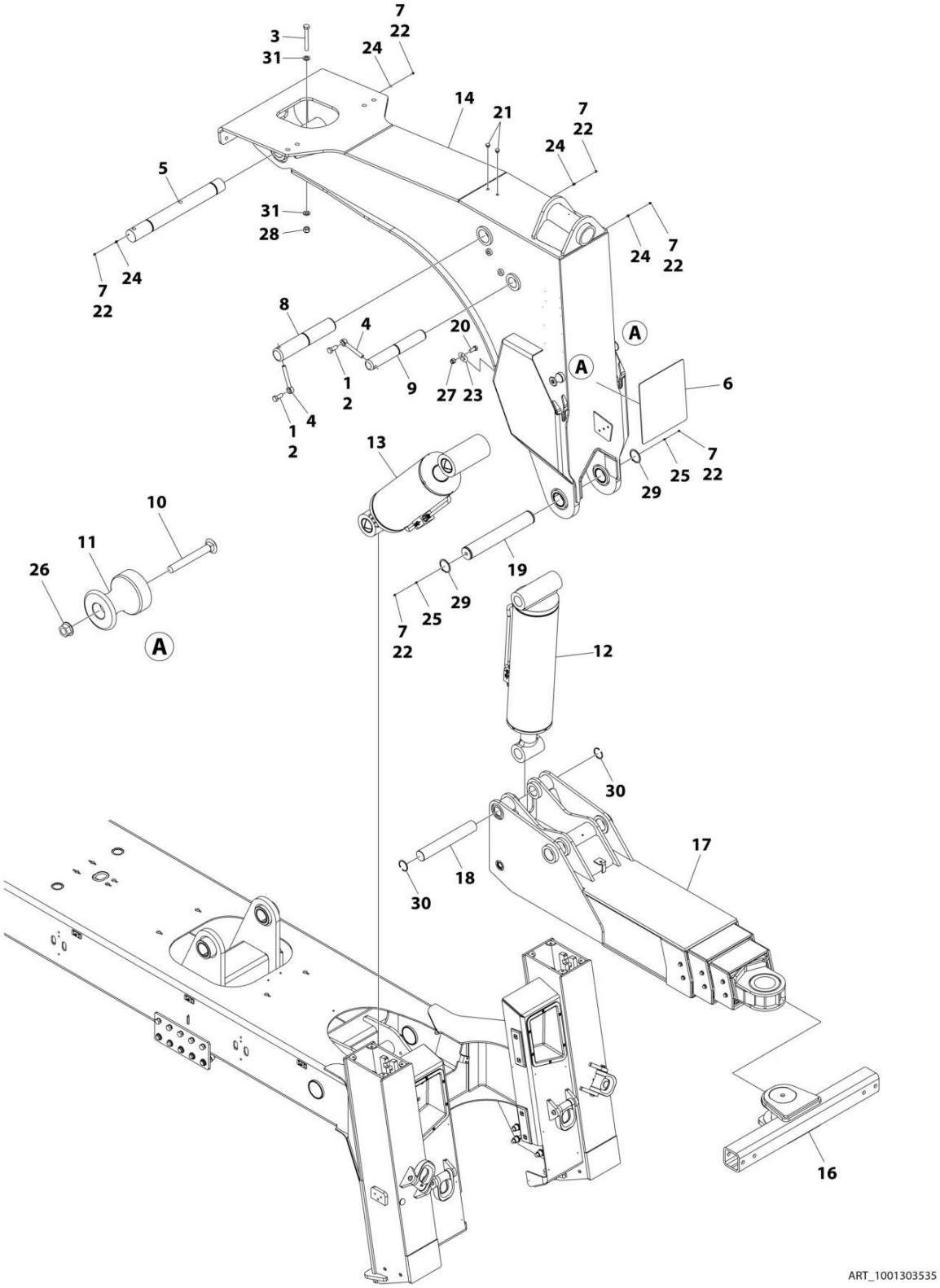


FIGURE 3-3. UNDERLIFT INSTALLATION - UL565 (COACH - 4 PIECE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303535	Ref	UNDERLIFT INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0642214	2	Bolt 3/4 x 1-3/4	
3	0682248	1	Bolt 3/4 x 6	
4	3841287	2	Rod, Keeper	
5	1001128697	1	Pin	
6	1001151050	1	Decal - Knee Boom Wear	
7	1001152707	AR	Lubricant	
8	1001222351	1	Pin	
9	1001222355	1	Pin	
10	1001251627	2	Bolt, Carriage 3/8 x 3	
11	1001251870	2	Roller, Chain	
12	1001283839	1	Cylinder Assembly - Tilt (See Separate Breakdown in this Section)	
13	1001284481	1	Cylinder Assembly - Lift (See Separate Breakdown in this Section)	
14	1001295549	1	Boom, Knee	
15	1001295911	Ref	Hydraulic Tube Installation (See Separate Breakdown in HYDRAULIC Section)	
16	2503880012	Ref	Crosstube Installation (See Separate Breakdown in this Section)	
17	3170000381	1	Underlift Assembly (See Separate Breakdown in this Section)	
18	4691000290	1	Pin	
19	4691000291	1	Pin	
20	7115201250	2	Bolt 5/8 x 1-1/2	
21	7189000017	2	Bumper	
22	7253000002	6	Cap, Grease	
23	7262000025	2	Chain	
24	7440000000	4	Fitting, Grease	
25	7440030000	2	Fitting, Grease	
26	7660162301	2	Nut 3/8	
27	7660202601	2	Nut 5/8	
28	7660222601	1	Nut 3/4	
29	7754000018	2	Ring, Retaining	
30	7754000051	2	Ring, Retaining	
31	7950220141	2	Washer 3/4	

FIGURE 3-4. UNDERLIFT INSTALLATION - UL500LP

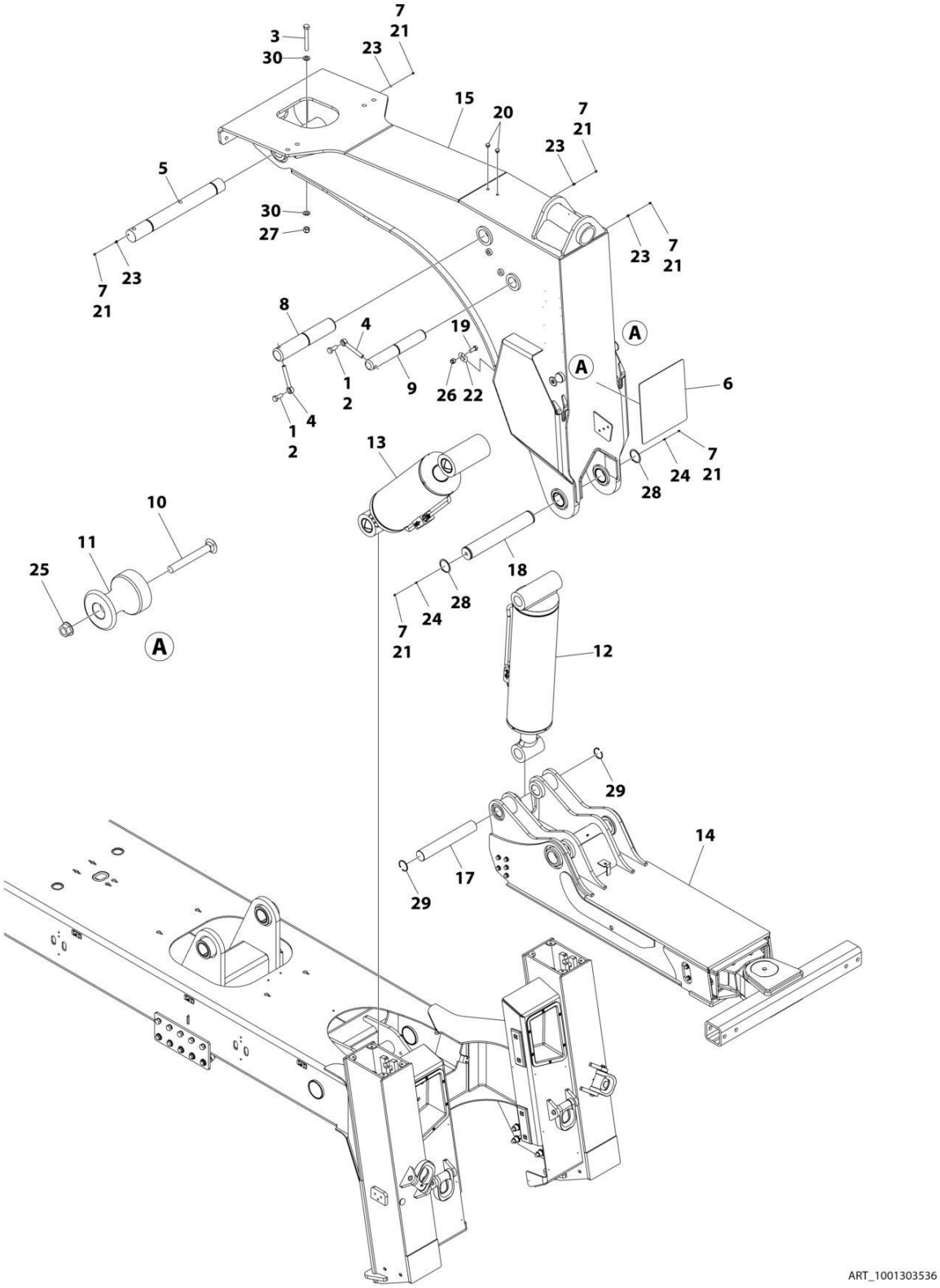


FIGURE 3-4. UNDERLIFT INSTALLATION - UL500LP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303536	Ref	UNDERLIFT INSTALLATION	A
1	0100011	AR	Compound, Locking	
2	0642214	2	Bolt 3/4 x 1-3/4	
3	0682248	1	Bolt 3/4 x 6	
4	3841287	2	Rod, Keeper	
5	1001128697	1	Pin	
6	1001151050	1	Decal - Knee Boom Wear	
7	1001152707	AR	Lubricant	
8	1001222351	1	Pin	
9	1001222355	1	Pin	
10	1001251627	2	Bolt, Carriage 3/8 x 3	
11	1001251870	2	Roller, Chain	
12	1001283839	1	Cylinder Assembly - Tilt (See Separate Breakdown in this Section)	
13	1001284481	1	Cylinder Assembly - Lift (See Separate Breakdown in this Section)	
14	1001291994	1	Underlift Assembly (See Separate Breakdown in this Section)	
15	1001295549	1	Boom, Knee	
16	1001295911	Ref	Hydraulic Tube Installation (See Separate Breakdown in HYDRAULIC Section)	
17	4691000290	1	Pin	
18	4691000291	1	Pin	
19	7115201250	2	Bolt 5/8 x 1-1/2	
20	7189000017	2	Bumper	
21	7253000002	6	Cap, Grease	
22	7262000025	2	Chain	
23	7440000000	4	Fitting, Grease	
24	7440030000	2	Fitting, Grease	
25	7660162301	2	Nut 3/8	
26	7660202601	2	Nut 5/8	
27	7660222601	1	Nut 3/4	
28	7754000018	2	Ring, Retaining	
29	7754000051	2	Ring, Retaining	
30	7950220141	2	Washer 3/4	

SECTION 3 - UNDERLIFT

FIGURE 3-5. UNDERLIFT ASSEMBLY- 53000LBS (UL530)

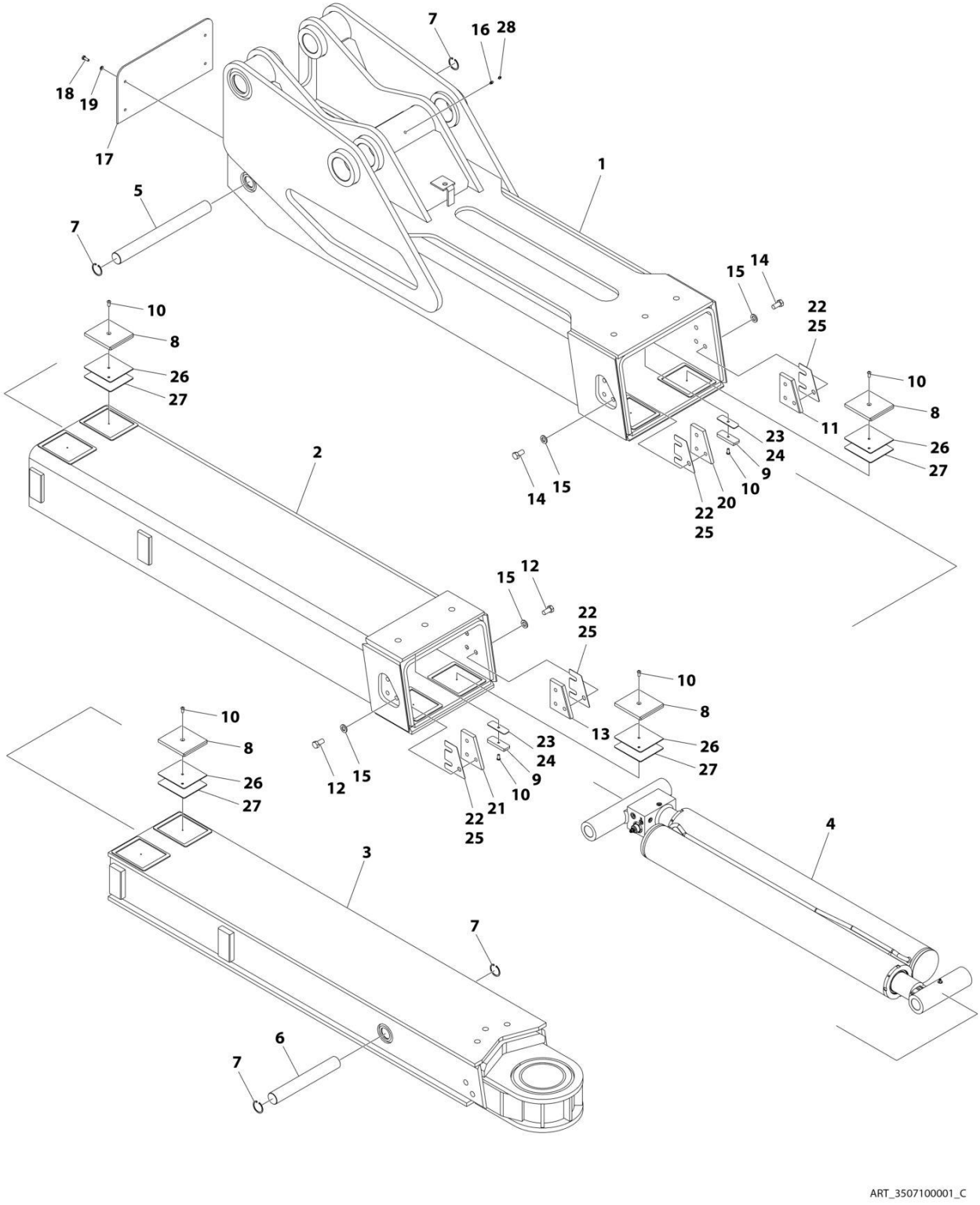


FIGURE 3-5. UNDERLIFT ASSEMBLY- 53000LBS (UL530)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3507100001	Ref	UNDERLIFT ASSEMBLY - 53,000 LBS	C
1	3170000125	1	Base Section Boom Weldment	
2	3170000124	1	Mid Section Boom Weldment	
3	3170000123	1	Fly Section Boom Weldment	
4	1001286137	1	Underlift Extension Cylinder Assembly (See Separate Breakdown in this Section)	
5	4691000292	1	Pin	
6	4691000293	1	Pin	
7	7754000043	4	Ring, Retaining	
8	4679000146	8	Pad	
9	4679000147	2	Pad	
10	7114140518	10	Capscrew 1/4 x 5/8	
11	4706002209	1	Plate	
12	7108181050	6	Capscrew 1/2 x 1-1/4	
13	4706002208	1	Plate	
14	7108180850	6	Capscrew 1/2 x 1	
15	7950180153	12	Washer 1/2	
16	7440030000	1	Fitting, Grease	
17	4706002207	1	Plate	
18	7115140650	4	Capscrew 1/4 x 3/4	
19	7950140000	4	Washer 1/4	
20	4706002211	1	Plate	
21	4706002210	1	Plate	
22	4812000057	4	Shim	
23	4706003708	2	Plate	
24	4706003709	2	Plate	
25	4706003710	4	Plate	
26	4706003717	8	Plate	
27	4706003718	8	Plate	
28	7253000002	3	Cap, Grease Fitting	

SECTION 3 - UNDERLIFT

FIGURE 3-6. UNDERLIFT ASSEMBLY - COACH (UL565)

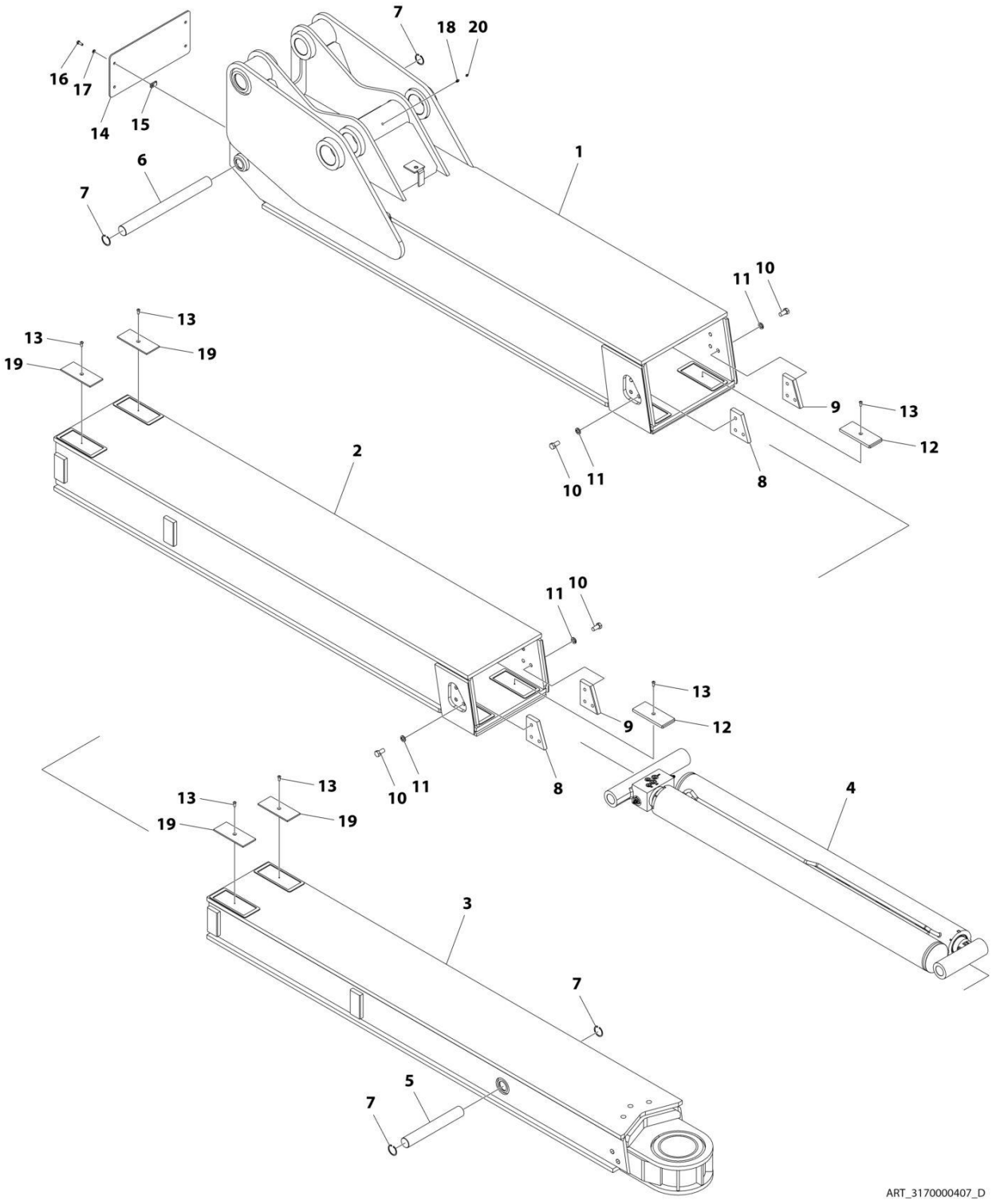


FIGURE 3-6. UNDERLIFT ASSEMBLY - COACH (UL565)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3170000407	Ref	UNDERLIFT ASSEMBLY - 3 PIECE 48K LBS	D
1	3170000400	1	Base Section Boom Weldment	
2	3170000401	1	Mid Section Boom Weldment	
3	3170000406	1	Fly Section Boom Weldment	
4	1001286138	1	Underlift Extension Cylinder Assembly (See Separate Breakdown in this Section)	
5	4691000293	1	Pin	
6	4691000321	1	Pin	
7	7754000043	4	Ring, Retaining	
8	4706005262	2	Plate	
9	4706005263	2	Plate	
10	7108180850	12	Capscrew 1/2 x 1	
11	7950180000	12	Washer 19/32	
12	4679000277	4	Pad	
13	7114140518	8	Capscrew 1/4 x 5/8	
14	4706005281	1	Plate	
15	7661000019	4	U-Nut 1/4	
16	7115140650	4	Capscrew 1/4 x 3/4	
17	7950140000	4	Washer 1/4	
18	7440030000	1	Fitting, Grease	
19	4679000293	4	Pad	
20	7253000002	3	Cap, Grease Fitting	

FIGURE 3-7. UNDERLIFT ASSEMBLY - 4 PIECE (UL565)

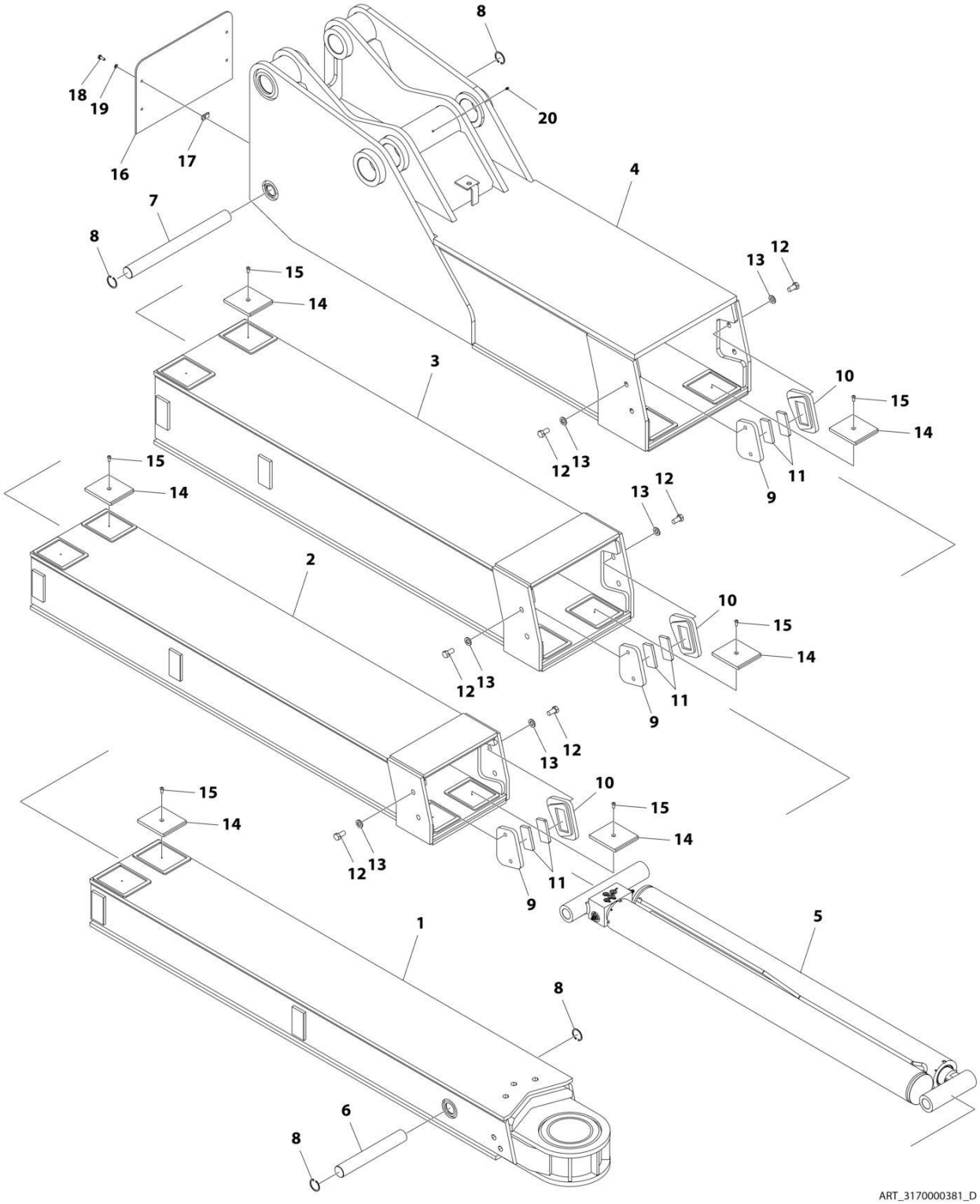


FIGURE 3-7. UNDERLIFT ASSEMBLY - 4 PIECE (UL565)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3170000381	Ref	BOOM ASSEMBLY 4 PIECE	D
1	3170000379	1	Fly Section Boom Weldment	
2	3170000380	1	2nd Stage Boom Weldment	
3	3170000178	1	3rd Stage Boom Weldment	
4	3170000179	1	Base Section Boom Weldment	
5	1001286139	1	Underlift Extension Cylinder Assembly (See Separate Breakdown in this Section)	
6	4691000293	1	Pin	
7	4691000321	1	Pin	
8	7754000043	4	Ring, Retaining	
9	3178000273	3	Bracket LH	
10	3178000275	3	Bracket RH	
11	4679000170	6	Pad	
12	7108180850	12	Capscrew 1/2 x 1	
13	7950180153	12	Washer 1/2	
14	4679000146	12	Pad	
15	7114140518	12	Capscrew 1/4 x 5/8	
16	4706002428	1	Plate	
17	7661000019	4	U-Nut 1/4	
18	7115140650	4	Capscrew 1/4 x 3/4	
19	7950140000	4	Washer 1/4	
20	7440030000	1	Fitting, Grease	

FIGURE 3-8. UNDERLIFT ASSEMBLY- (UL500LP)

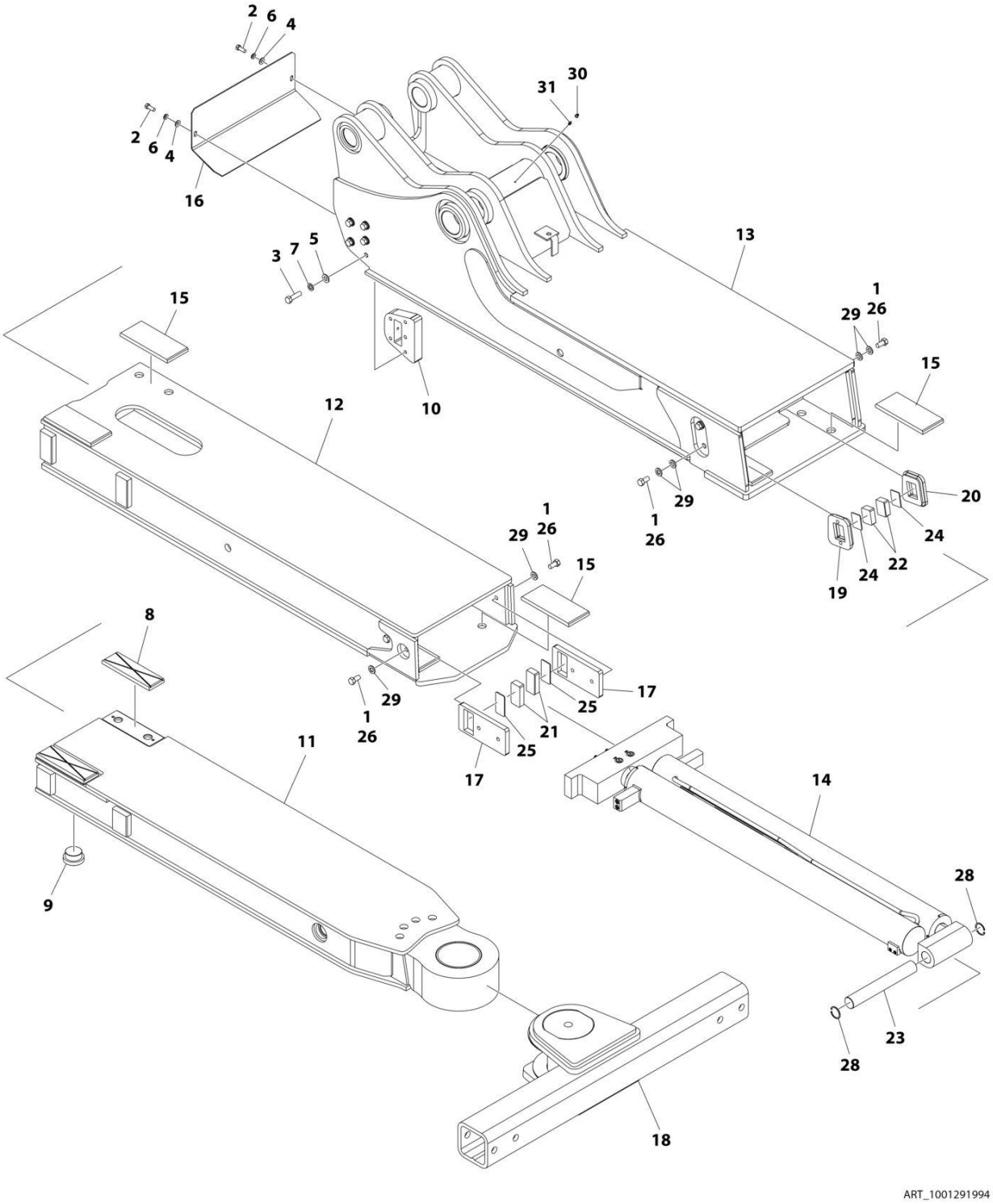


FIGURE 3-8. UNDERLIFT ASSEMBLY- (UL500LP)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001291994	Ref	BOOM ASSEMBLY 4 PIECE - 56,500 LBS	B
1	0100011	AR	Compound Locking	
2	0641608	2	Bolt 3/8 x 1	
3	0641814	10	Bolt 1/2 x 1-3/4	
4	4711600	2	Washer 3/8	
5	4711800	10	Washer 1/2	
6	4761600	2	Washer 3/8	
7	4761800	10	Washer 1/2	
8	1001246893	2	Pad	
9	1001263992	2	Pad	
10	1001266446	2	Mount, UL Base	
11	1001291995	1	Fly, Underlift Boom	
12	1001291996	1	Mid, Underlift Boom	
13	1001291997	1	Base, Underlift Boom	
14	1001292166	1	Underlift Extend Cylinder Assembly (See Separate Breakdown in this Section)	
15	1001293966	6	Pad	
16	1001293981	1	Plate	
17	1001294073	2	Plate	
18	2503880012	1	Crosstube Installation (See Separate Breakdown in this Section)	
19	3706000177	1	Plate	
20	3706000178	1	Plate	
21	4679000205	2	Pad	
22	4679000206	2	Pad	
23	4691000293	1	Pin	
24	4706003144	2	Plate	
25	4706003719	2	Plate	
26	7105180850	8	Bolt 1/2 x 1	
28	7754000043	2	Ring, Retaining	
29	7950180153	12	Washer 1/2	
30	7253000002	1	Grease Fitting Cap	
31	7440030000	1	Grease Fitting	

FIGURE 3-9. CYLINDER ASSEMBLY - EXTEND/RETRACT (UL530)

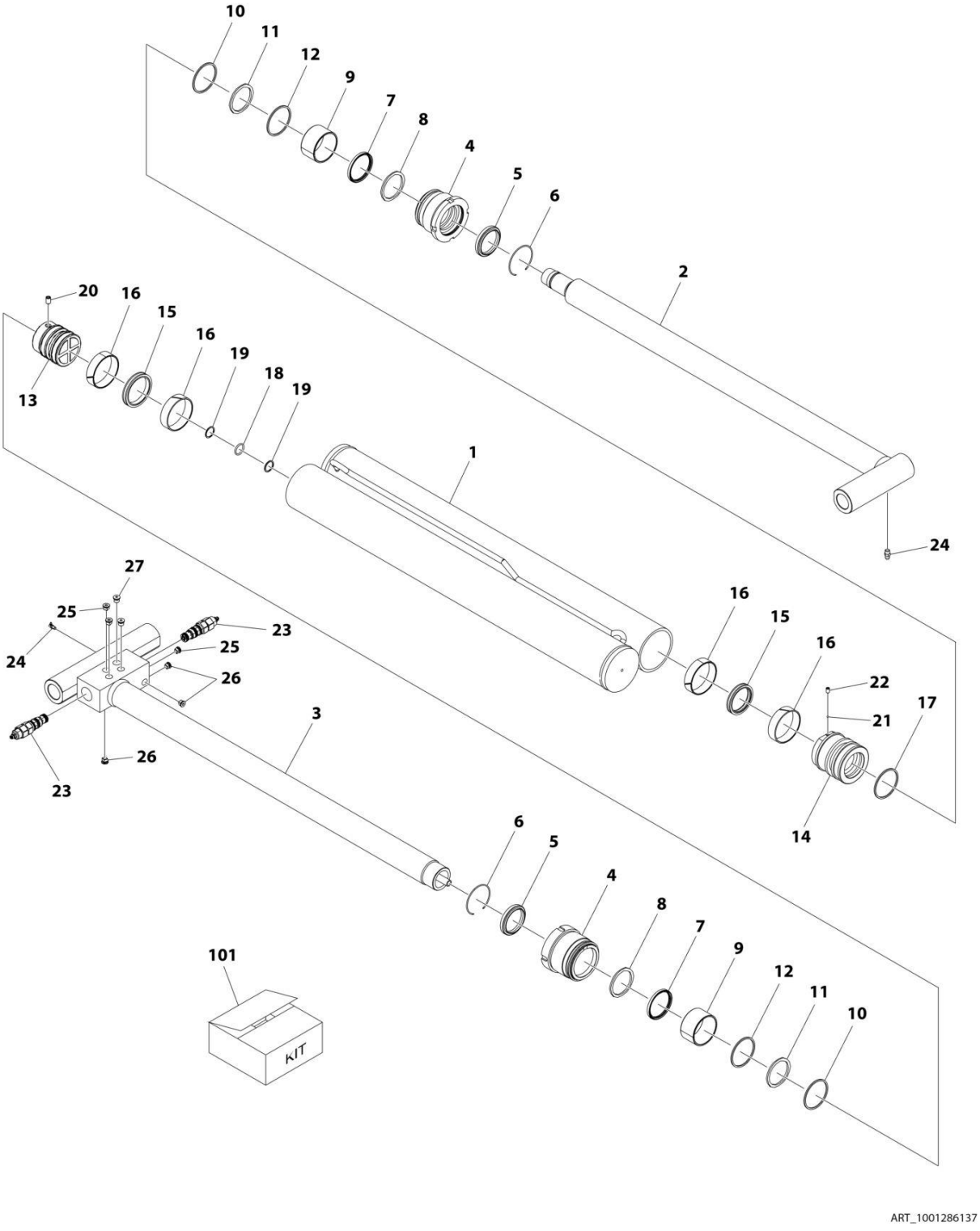


FIGURE 3-9. CYLINDER ASSEMBLY - EXTEND/RETRACT (UL530)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286137	Ref	CYLINDER ASSEMBLY - EXTEND/RETRACT	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not available for purchase)	
2	70070101	1	Rod	
3	70070102	1	Rod	
4	70008161	2	Gland	
5	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
6	70050795	2	Ring, Retaining	
7	See Note	NSS	Seal, Rod (Note: Use Item 101)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
9	70007052	2	Bushing	
10	70006606	2	O-Ring	
11	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
12	See Note	NSS	O-Ring (Note: Use Item 101)	
13	70070103	1	Piston	
14	70010104	1	Piston	
15	See Note	NSS	Seal, Piston (Note: Use Item 101)	
16	See Note	NSS	Ring, Wear (Note: Use Item 101)	
17	See Note	NSS	O-Ring (Note: Use Item 101)	
18	See Note	NSS	O-Ring (Note: Use Item 101)	
19	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
20	70005866	1	Set Screw	
21	70022564	1	Steel Ball	
22	70023369	1	Set Screw	
23	70070089	2	Valve, Counterbalance	
24	70029469	2	Grease Nipple	
25	70023370	3	Plug	
26	70070080	3	Plug	
27	70023371	2	Plug	
101	70070105	1	Seal Kit (Includes Items 5, 7, 8, 11, 12, 15-19)	

FIGURE 3-10. CYLINDER ASSEMBLY - EXTEND/RETRACT (UL565 - COACH)

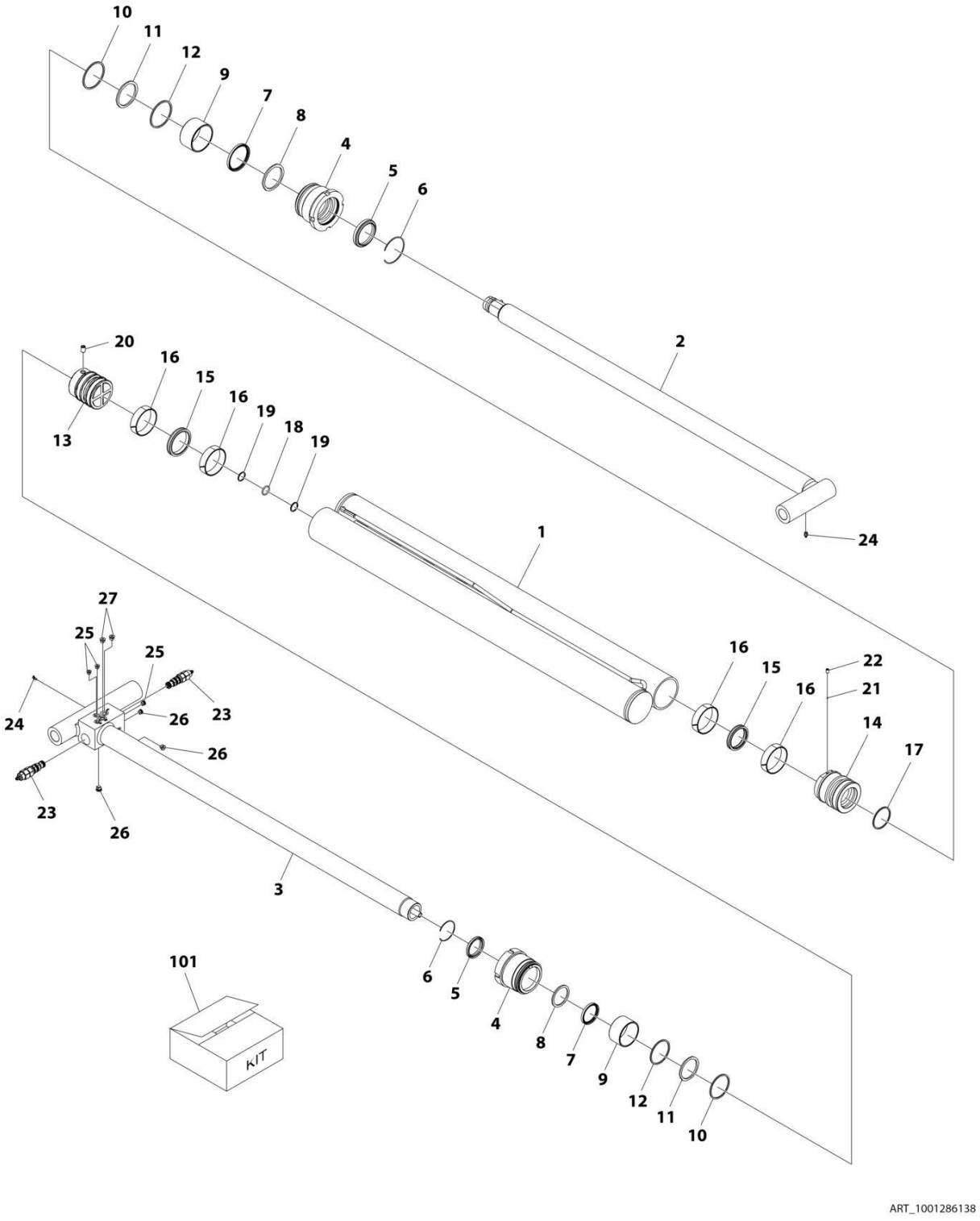


FIGURE 3-10. CYLINDER ASSEMBLY - EXTEND/RETRACT (UL565 - COACH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286138	Ref	CYLINDER ASSEMBLY - EXTEND/RETRACT	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not available for purchase)	
2	70070106	1	Rod	
3	70070107	1	Rod	
4	70008161	2	Gland	
5	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
6	70050795	2	Ring, Retaining	
7	See Note	NSS	Seal, Rod (Note: Use Item 101)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
9	70007052	2	Bushing	
10	70006606	1	O-Ring	
11	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
12	See Note	NSS	O-Ring (Note: Use Item 101)	
13	70070103	1	Piston	
14	70010104	1	Piston	
15	See Note	NSS	Seal, Piston (Note: Use Item 101)	
16	See Note	NSS	Ring, Wear (Note: Use Item 101)	
17	See Note	NSS	O-Ring (Note: Use Item 101)	
18	See Note	NSS	O-Ring (Note: Use Item 101)	
19	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
20	70005866	1	Set Screw	
21	70022564	1	Steel Ball	
22	70023369	1	Set Screw	
23	70070089	2	Valve, Counterbalance	
24	70029469	2	Grease Nipple	
25	70023370	3	Plug	
26	70070080	3	Plug	
27	70023371	2	Plug	
101	70070108	1	Seal Kit (Includes Items 5, 7, 8, 11, 12, 15-19)	

FIGURE 3-11. CYLINDER ASSEMBLY - EXTEND/RETRACT (UL565 - 4 PIECE)

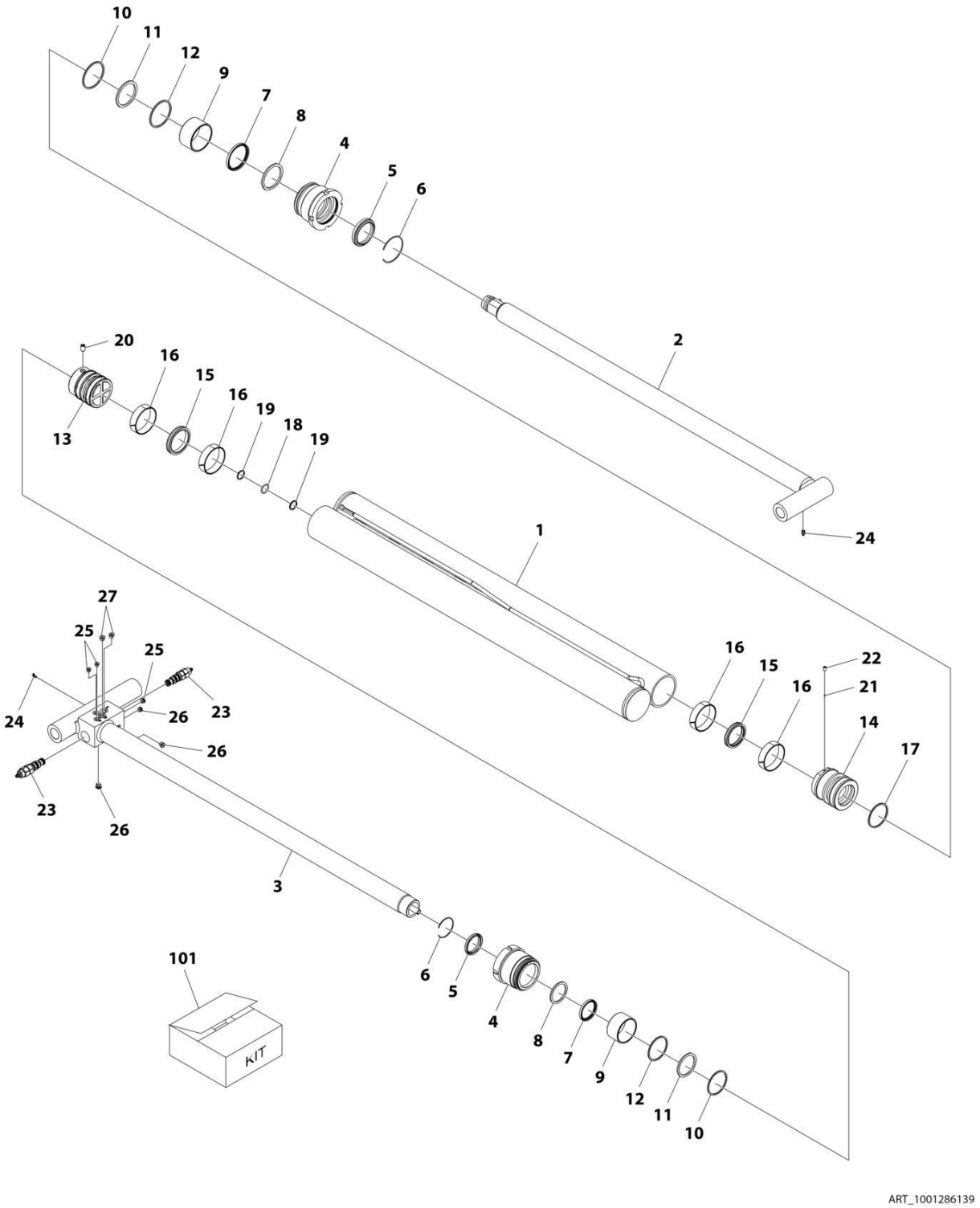


FIGURE 3-11. CYLINDER ASSEMBLY - EXTEND/RETRACT (UL565 - 4 PIECE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001286139	Ref	CYLINDER ASSEMBLY - EXTEND/RETRACT	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not available for purchase)	
2	70070109	1	Rod	
3	70070110	1	Rod	
4	70008161	2	Gland	
5	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
6	70050795	2	Ring, Retaining	
7	See Note	NSS	Seal, Rod (Note: Use Item 101)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
9	70007052	2	Bushing	
10	See Note	NSS	O-Ring (Note: Use Item 101)	
11	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
12	See Note	NSS	O-Ring (Note: Use Item 101)	
13	70070103	1	Piston	
14	70010104	1	Piston	
15	See Note	NSS	Seal, Piston (Note: Use Item 101)	
16	See Note	NSS	Ring, Wear (Note: Use Item 101)	
17	See Note	NSS	O-Ring (Note: Use Item 101)	
18	See Note	NSS	O-Ring (Note: Use Item 101)	
19	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
20	70005866	1	Set Screw	
21	70022564	1	Steel Ball	
22	70023369	1	Set Screw	
23	70070089	2	Valve, Counterbalance	
24	70029469	2	Grease Nipple	
25	70023370	3	Plug	
26	70070080	3	Plug	
27	70023371	2	Plug	
101	70070111	1	Seal Kit (Includes Items 5, 7, 8, 10-12, 15-19)	

FIGURE 3-12. CYLINDER ASSEMBLY - LIFT

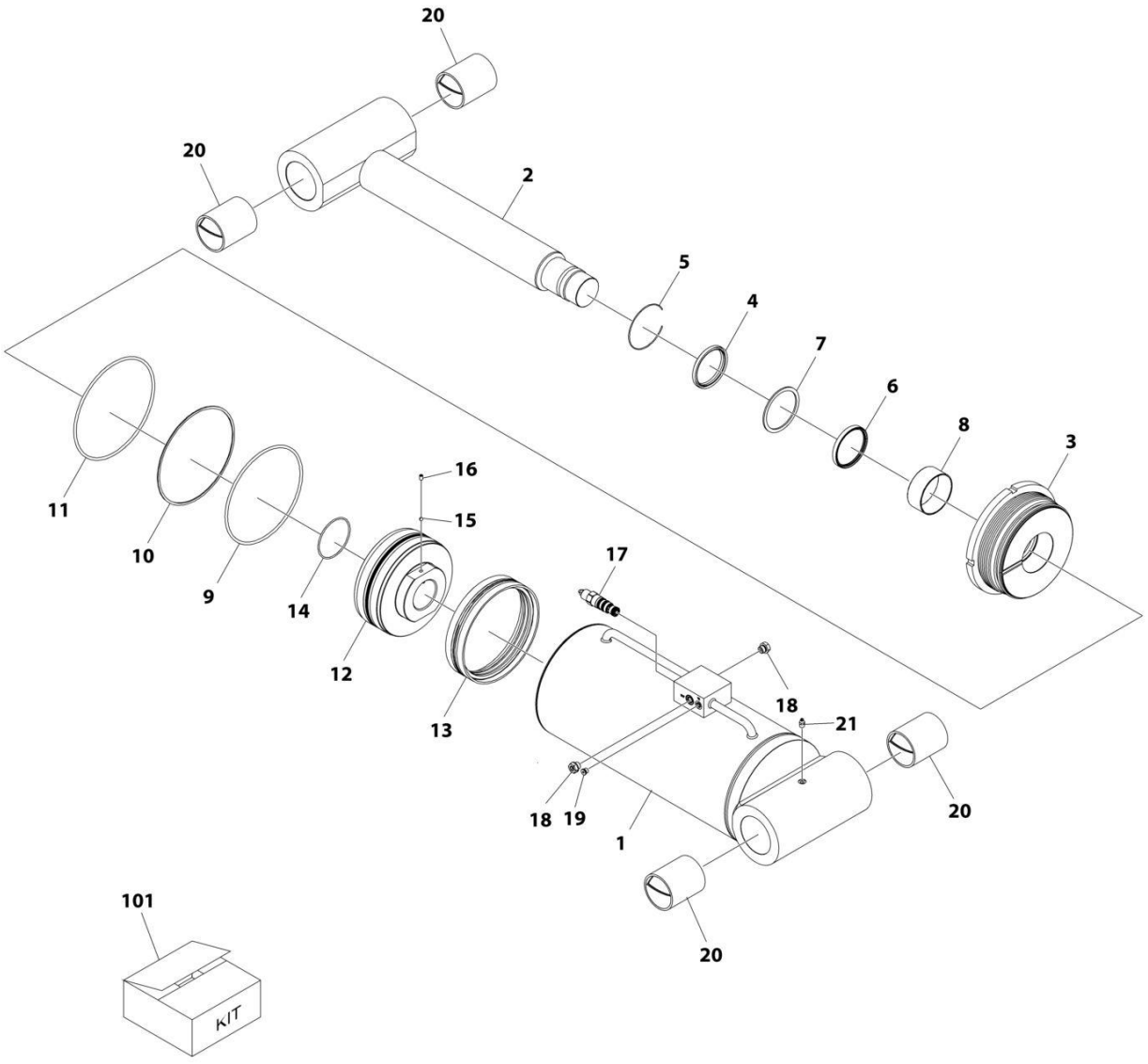


FIGURE 3-12. CYLINDER ASSEMBLY - LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284481	Ref	CYLINDER ASSEMBLY - LIFT	A
	See Note	Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70070048	1	Rod	
3	70070045	1	Gland	
4	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
5	70023380	1	Ring, Retaining	
6	See Note	NSS	Seal, Rod (Note: Use Item 101)	
7	See Note	NSS	Ring, Backup (Note: Use Item 101)	
8	70007423	1	Bushing	
9	See Note	NSS	O-Ring (Note: Use Item 101)	
10	See Note	NSS	Ring, Backup (Note: Use Item 101)	
11	See Note	NSS	O-Ring (Note: Use Item 101)	
12	70070046	1	Piston	
13	See Note	NSS	Seal, Piston (Note: Use Item 101)	
14	See Note	NSS	O-Ring (Note: Use Item 101)	
15	70022564	1	Ball, Steel	
16	70029468	1	Screw, Set	
17	70070042	1	Valve, Counterbalance	
18	70070038	2	Plug, Dust	
19	70023370	1	Plug	
20	70070049	4	Bushing	
21	70029469	1	Grease Nipple	
101	70070050	1	Seal Kit (Includes Items 4, 6, 7, 9-11 & 13, 14)	

FIGURE 3-13. CYLINDER ASSEMBLY - TILT

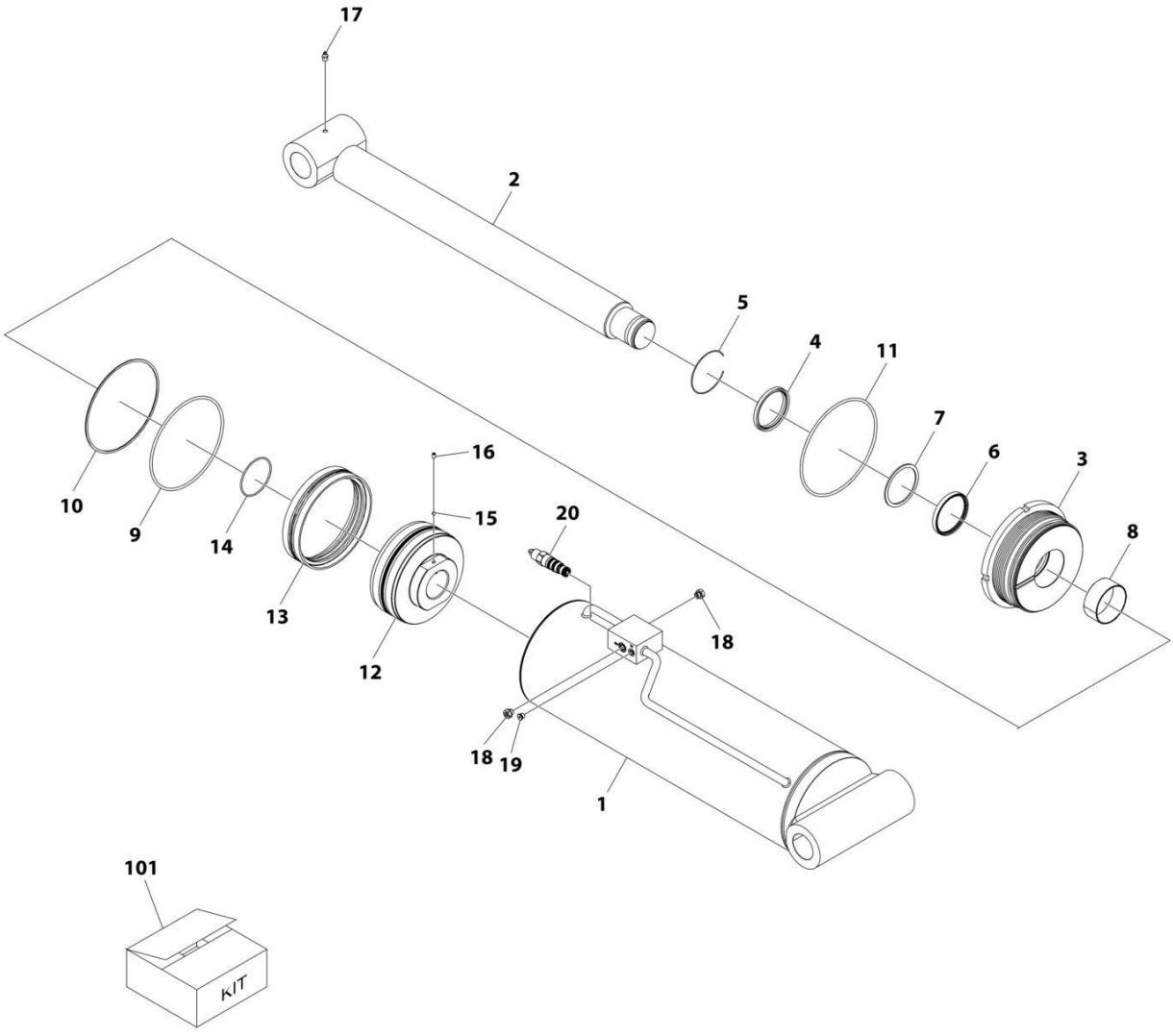


FIGURE 3-13. CYLINDER ASSEMBLY - TILT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001283839	Ref	CYLINDER ASSEMBLY - TILT	A
	See Note	Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70070044	1	Rod	
3	70070045	1	Gland	
4	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
5	70023380	1	Ring, Retaining	
6	See Note	NSS	Seal, Rod (Note: Use Item 101)	
7	See Note	NSS	Ring, Backup (Note: Use Item 101)	
8	70052522	1	Bushing	
9	See Note	NSS	O-Ring (Note: Use Item 101)	
10	See Note	NSS	Ring, Backup (Note: Use Item 101)	
11	See Note	NSS	O-Ring (Note: Use Item 101)	
12	70070046	1	Piston	
13	See Note	NSS	Seal, Piston (Note: Use Item 101)	
14	See Note	NSS	O-Ring (Note: Use Item 101)	
15	70022564	1	Ball, Steel	
16	70029468	1	Screw, Set	
17	70029469	1	Grease Nipple	
18	70070038	2	Plug, Dust	
19	70023370	1	Plug	
20	70070037	1	Valve, Counterbalance	
101	70070047	1	Seal Kit (Includes Items 4, 6, 7, 9-11 & 13, 14)	

FIGURE 3-14. CYLINDER ASSEMBLY - UNDERLIFT 4-PC EXTENSION

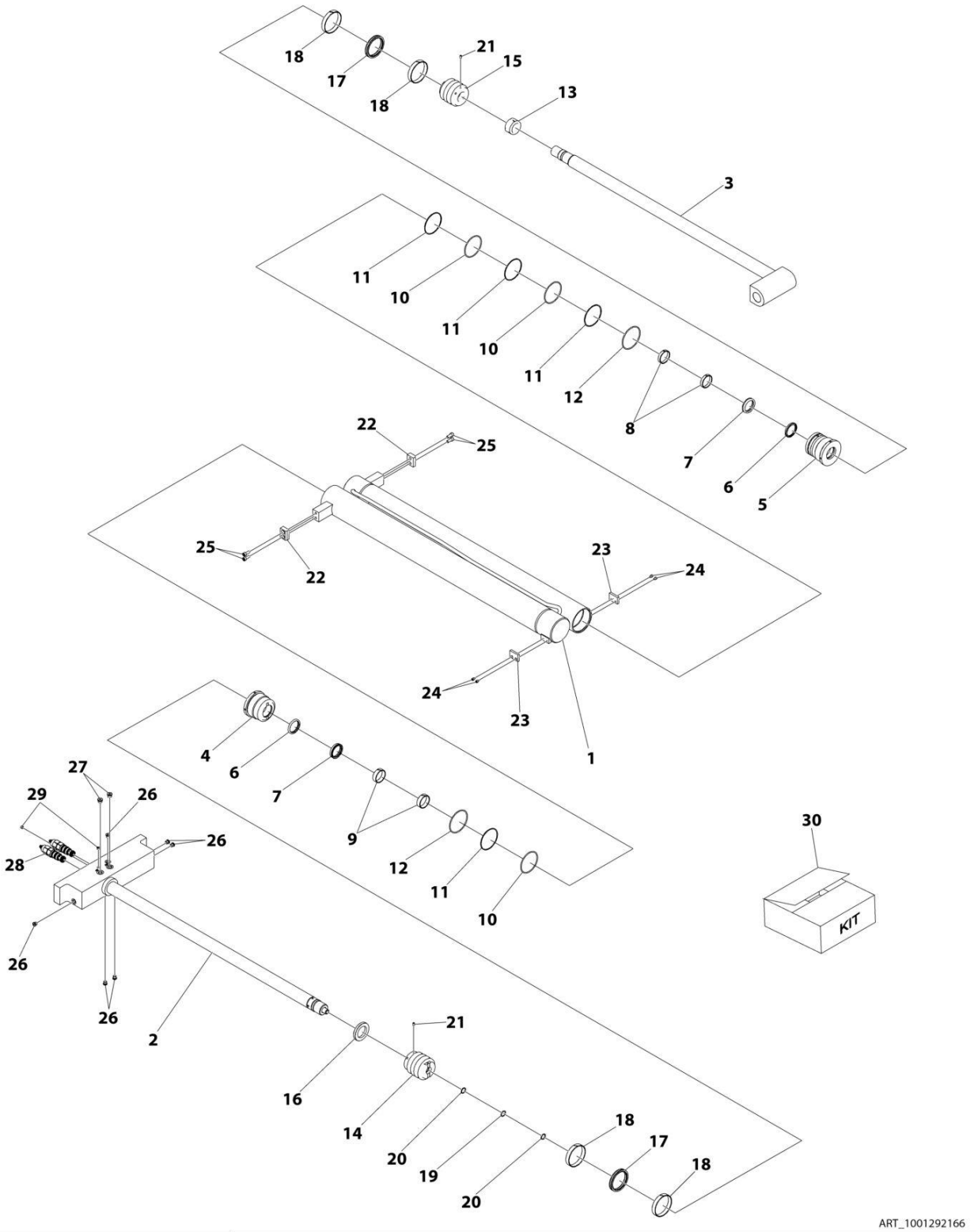


FIGURE 3-14. CYLINDER ASSEMBLY - UNDERLIFT 4-PC EXTENSION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001292166	Ref	CYLINDER ASSEMBLY - UNDERLIFT 4-PC EXTENSION	B
	See Note	Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70070167	1	Rod	
3	70070168	1	Rod	
4	70070169	1	Gland	
5	70070170	1	Gland	
6	See Note	NSS	Wiper, Dust (Note: Use Item 101)	
7	See Note	NSS	Seal, Rod (Note: Use Item 101)	
8	See Note	NSS	Ring, Wear (Note: Use Item 101)	
9	See Note	NSS	Ring, Wear (Note: Use Item 101)	
10	See Note	NSS	O-Ring (Note: Use Item 101)	
11	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
12	See Note	NSS	O-Ring (Note: Use Item 101)	
13	70070171	1	Ring, Cushion	
14	70070172	1	Piston	
15	70070173	1	Piston	
16	70070174	1	Spacer	
17	See Note	NSS	Seal, Piston (Note: Use Item 101)	
18	See Note	NSS	Ring, Wear (Note: Use Item 101)	
19	See Note	NSS	O-Ring (Note: Use Item 101)	
20	See Note	NSS	Ring, Back-up (Note: Use Item 101)	
21	70005866	2	Set Screw	
22	70070175	2	Pad, Support	
23	70070176	2	Pad, Support	
24	70070177	4	Bolt	
25	70004625	4	Bolt	
26	2220883	6	Plug	
27	2220885	2	Plug	
28	70053204	2	Valve, Counterbalance	
29	70070178	3	Plug	
101	70053254	1	Kit, Seal (Includes Items 6-12, 17-20)	

FIGURE 3-15. CABLE INSTALLATION - DRAG WINCH

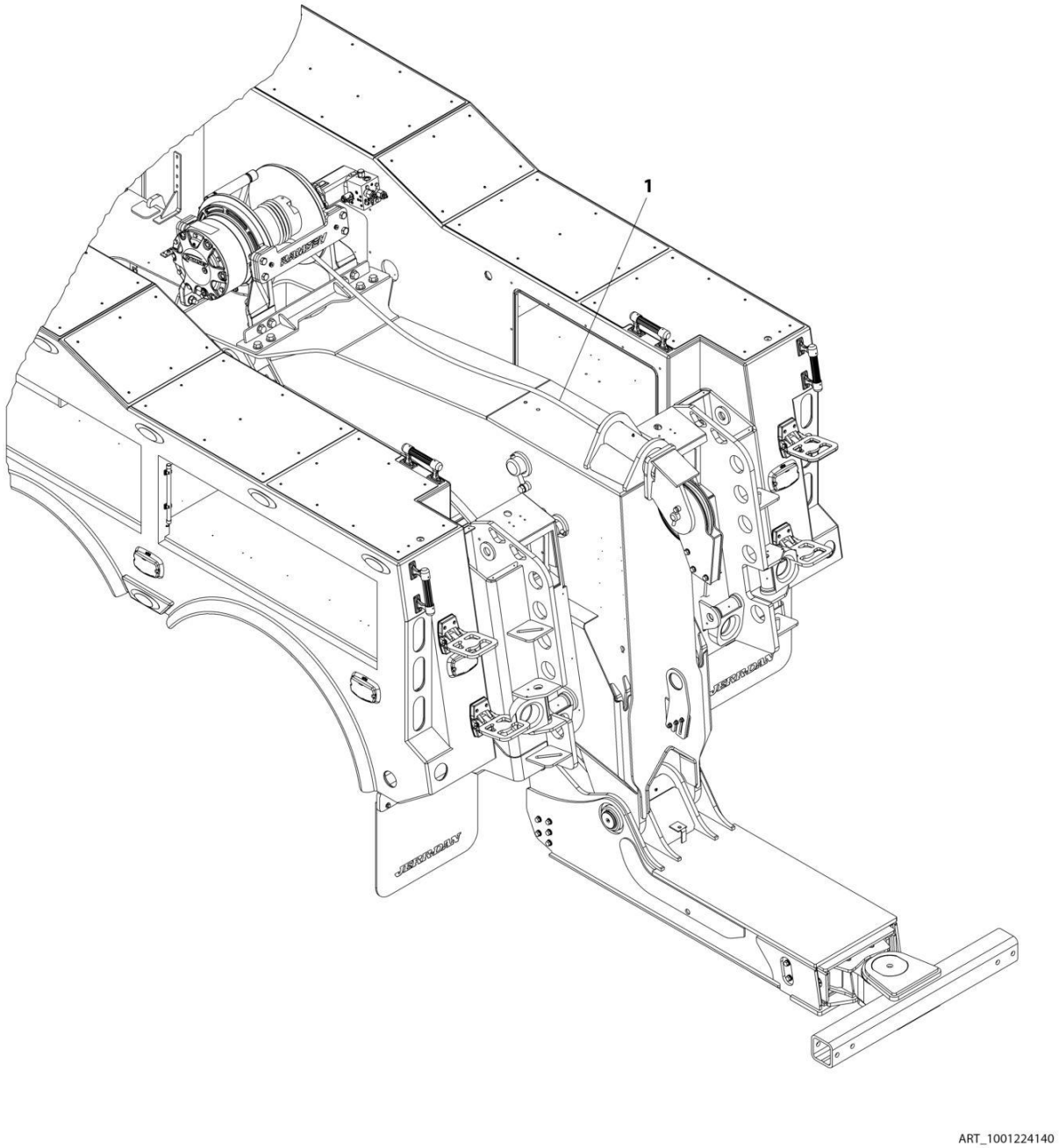


FIGURE 3-15. CABLE INSTALLATION - DRAG WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001224140	Ref	CABLE INSTALLATION - DRAG WINCH	A
1	1001224173	1	Cable, Winch	

FIGURE 3-16. CROSSTUBE INSTALLATION

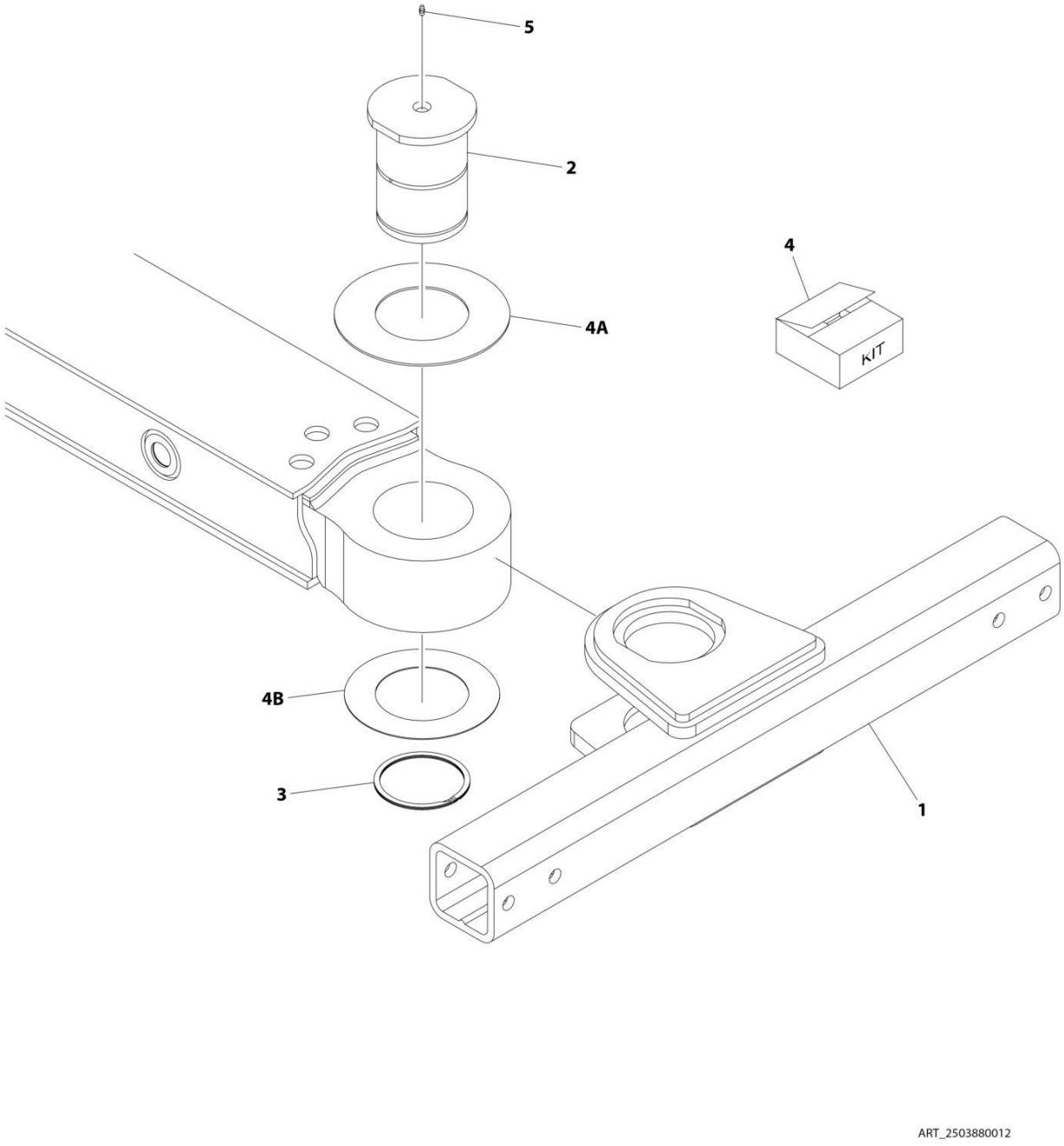


FIGURE 3-16. CROSSTUBE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2503880012	Ref	CROSSTUBE INSTALLATION	A
1	3913000094	1	Crosstube Weldment	
2	4691000242	1	Pin	
3	7754000042	1	Ring, Retaining	
4	3577000018	1	Shim Kit	
4A	4949000041	1	Washer 1/8	
4B	4949000042	1	Washer 1/16	
5	7440030000	1	Grease Fitting	

FIGURE 3-17. FRAME FORK INSTALLATION

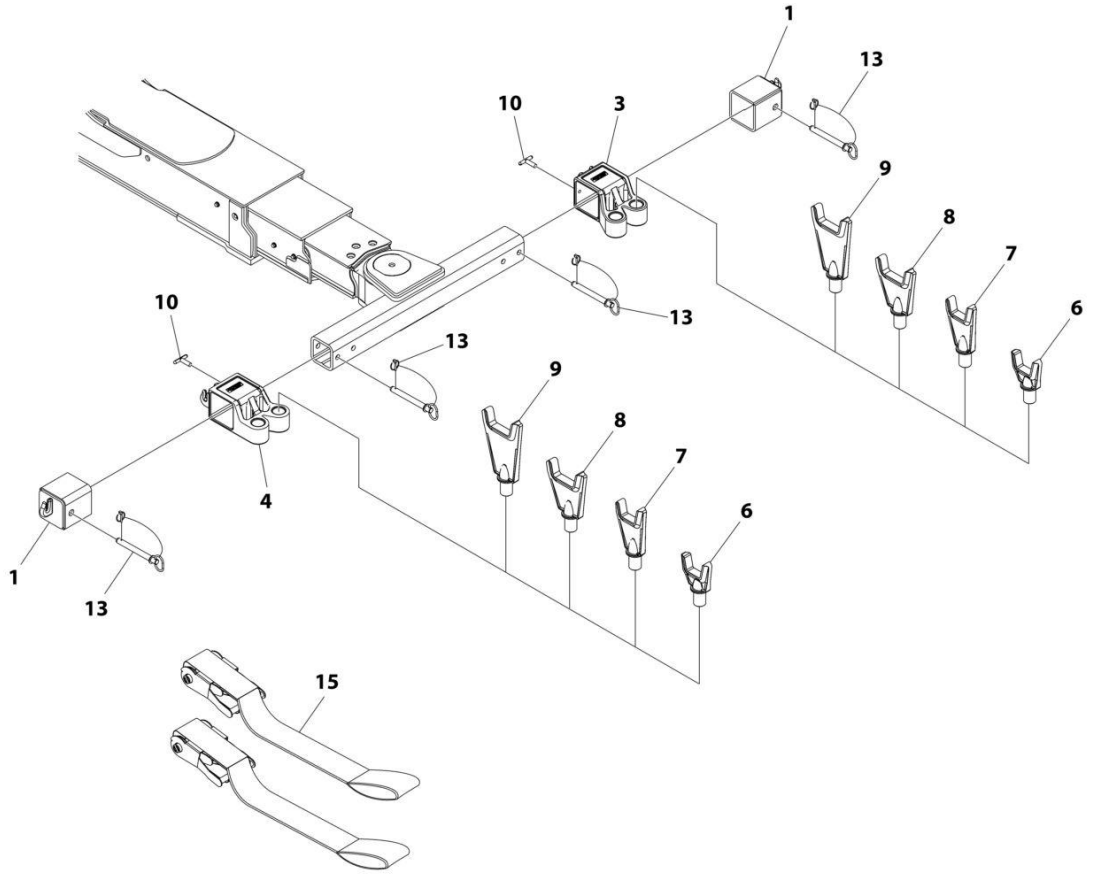


FIGURE 3-17. FRAME FORK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2503870011	Ref	FRAME FORK INSTALLATION	I
1	3007000004	2	Chain Hook Adapter	
3	7007000056	1	Frame Fork Adapter, RH	
4	7007000055	1	Frame Fork Adapter, LH	
6	7454000006	2	Fork, Short	
7	7454000005	2	Fork, Medium	
8	7454000003	2	Fork, Medium	
9	7454000004	2	Fork, Long	
10	3551000036	2	T-Handle	
13	7691000021	4	Pin	
15	1001159568	2	Strap	

SECTION 4 - BODY

FIGURE 4-1. BODY INSTALLATION - MID/REAR WITHOUT AXLE

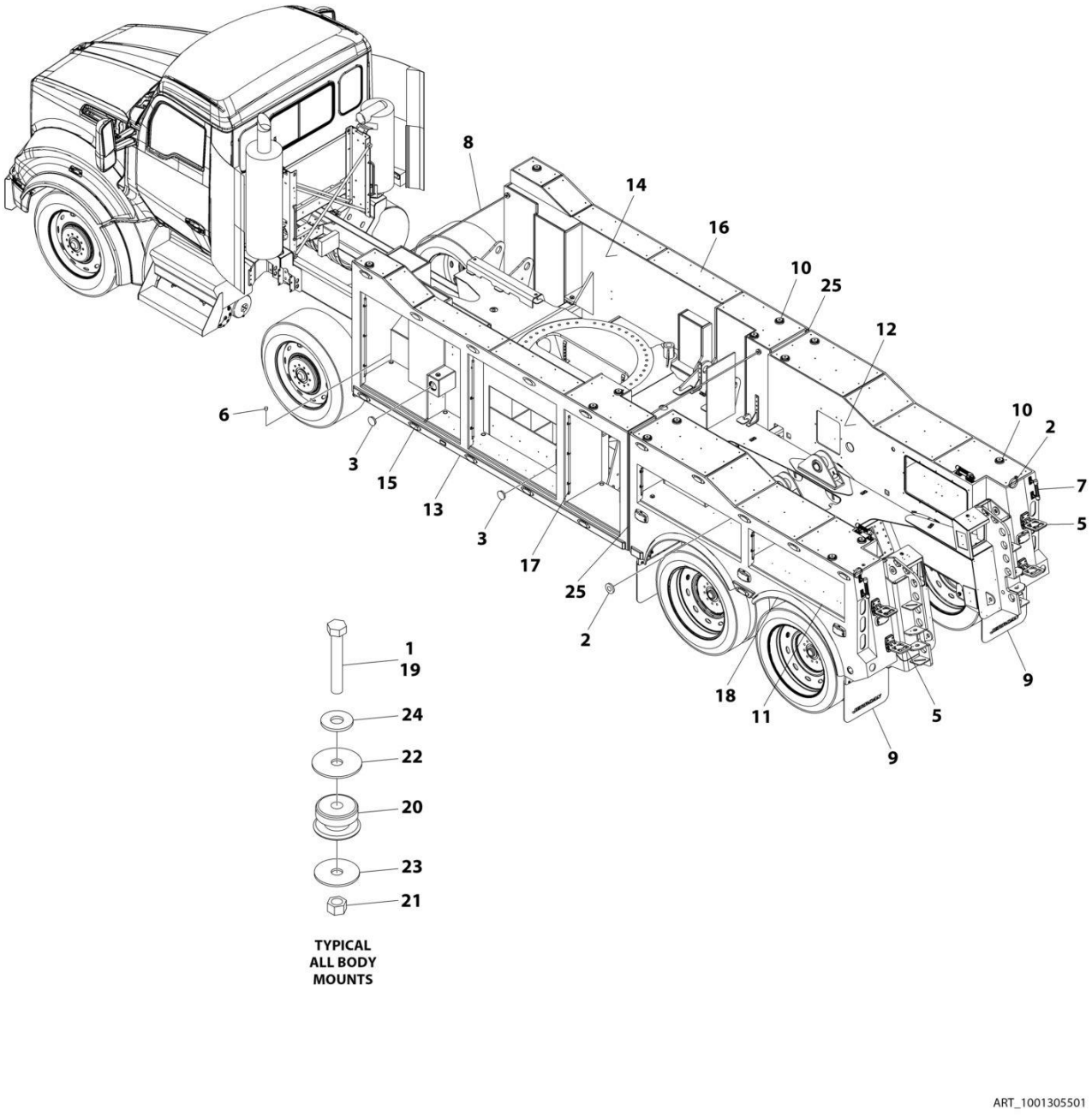


FIGURE 4-1. BODY INSTALLATION - MID/REAR WITHOUT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305501	Ref	BODY INSTALLATION - MID/REAR	A
1	0642034	12	Bolt 5/8 x 4-1/4	
2	1120601	4	Cap-Plug	
3	1001151789	4	Plug	
4	1001166899	Ref	Outrigger Pin Storage Installation (Not Shown) (See Separate Breakdown in this Section)	
5	1001167454	Ref	Steps Installation (See Separate Breakdown in this Section)	
6	1001173847	24	Plug, Rubber	
7	1001196639	Ref	Grab Handles Installation (See Separate Breakdown in this Section)	
8	1001178303	Ref	Mid Body Brace (See Separate Breakdown in this Section)	
9	1001196790	Ref	Mud Flap Installation (See Separate Breakdown in this Section)	
10	1001264742	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
11	1001305502	1	Box, Body (LH Rear)	
12	1001305503	1	Box, Body (RH Rear)	
13	1001305504	1	Box, Body (LH Mid)	
14	1001305505	1	Box, Body (RH Mid)	
15	1001305980	Ref	Lights Installation - Body Marker Lights (See Separate Breakdown in ELECTRICAL Section)	
16	1001306150	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
17	1001306154	Ref	Lights Installation - Body Compartment (See Separate Breakdown in ELECTRICAL Section)	
18	1001310075	Ref	Fender Flare and Liner Installation (See Separate Breakdown in this Section)	
19	7115203250	8	Bolt 5/8 x 4	
20	7636000008	20	Mount	
21	7660200001	20	Nut 5/8	
22	7949000019	20	Washer	
23	7949000020	20	Washer	
24	7950200161	20	Washer 5/8	
25	8632000011	9.5 ft	Seal	

FIGURE 4-2. BODY INSTALLATION - MID/REAR WITH AXLE

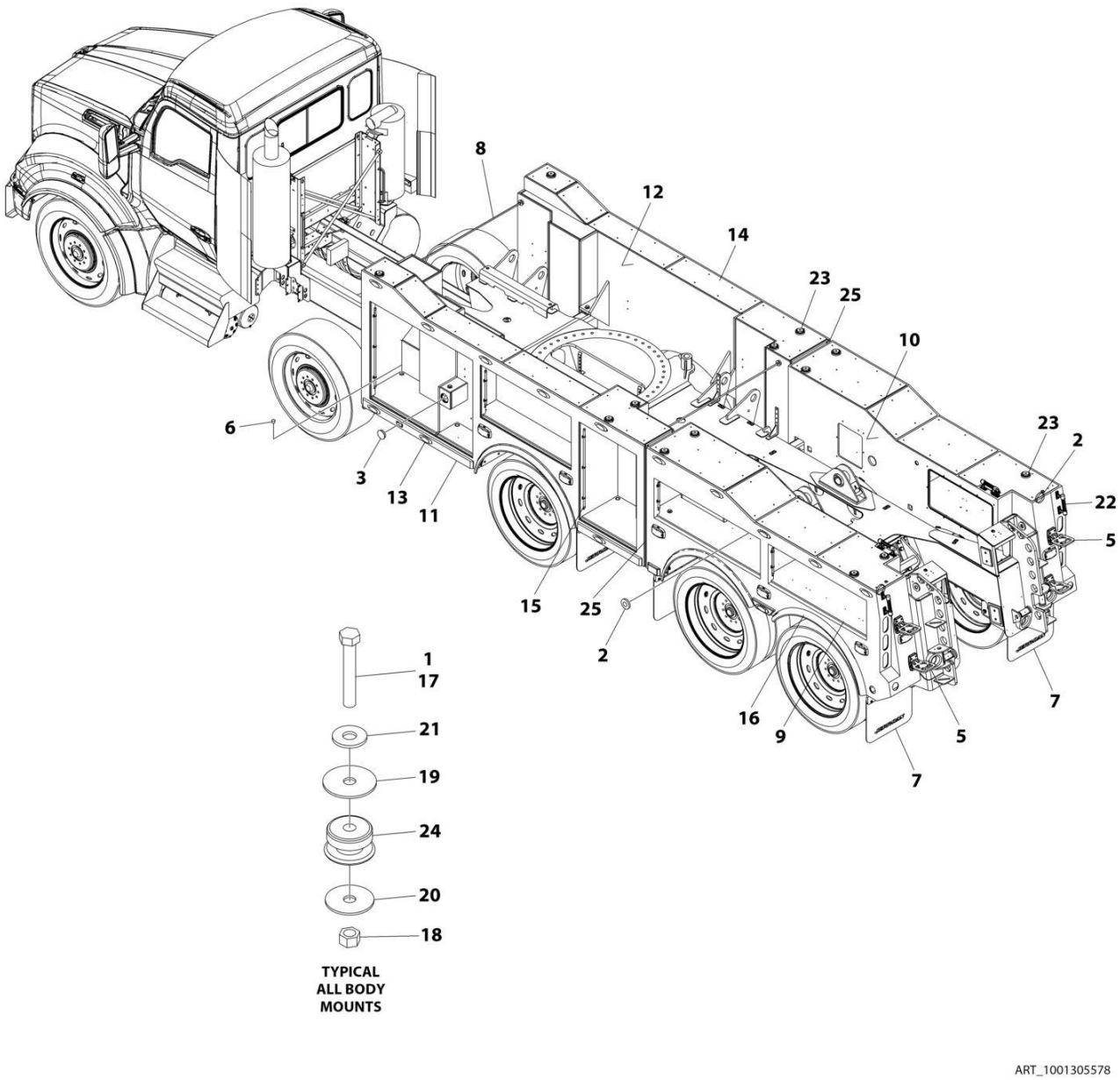


FIGURE 4-2. BODY INSTALLATION - MID/REAR WITH AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305578	Ref	BODY INSTALLATION - MID/REAR	A
1	0642034	12	Bolt 5/8 x 4-1/4	
2	1120601	4	Cap-Plug	
3	1001151789	2	Plug	
4	1001166899	Ref	Outrigger Pin Storage Installation (Not Shown) (See Separate Breakdown in this Section)	
5	1001167454	Ref	Steps Installation (See Separate Breakdown in this Section)	
6	1001173847	20	Plug, Rubber	
7	1001196790	Ref	Mud Flap Installation (See Separate Breakdown in this Section)	
8	1001210053	Ref	Mid Body Brace (See Separate Breakdown in this Section)	
9	1001305502	1	Box, Body (LH Rear)	
10	1001305503	1	Box, Body (RH Rear)	
11	1001305581	1	Box, Body (LH Mid)	
12	1001305582	1	Box, Body (RH Mid)	
13	1001305979	Ref	Lights Installation - Body Marker Lights (See Separate Breakdown in ELECTRICAL Section)	
14	1001306150	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
15	1001306153	Ref	Lights Installation - Body Compartment (See Separate Breakdown in ELECTRICAL Section)	
16	1001310007	Ref	Fender Flare and Liner Installation (See Separate Breakdown in this Section)	
17	7115203250	8	Bolt 5/8 x 4	
18	7660200001	20	Nut 5/8	
19	7949000019	20	Washer	
20	7949000020	20	Washer	
21	7950200161	20	Washer 5/8	
22	1001196639	Ref	Grab Handles Installation (See Separate Breakdown in this Section)	
23	1001264742	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
24	7636000008	20	Mount	
25	8632000011	9.5 ft	Seal	

FIGURE 4-3. BRACE MID BODY INSTALLATION - WITHOUT AXLE

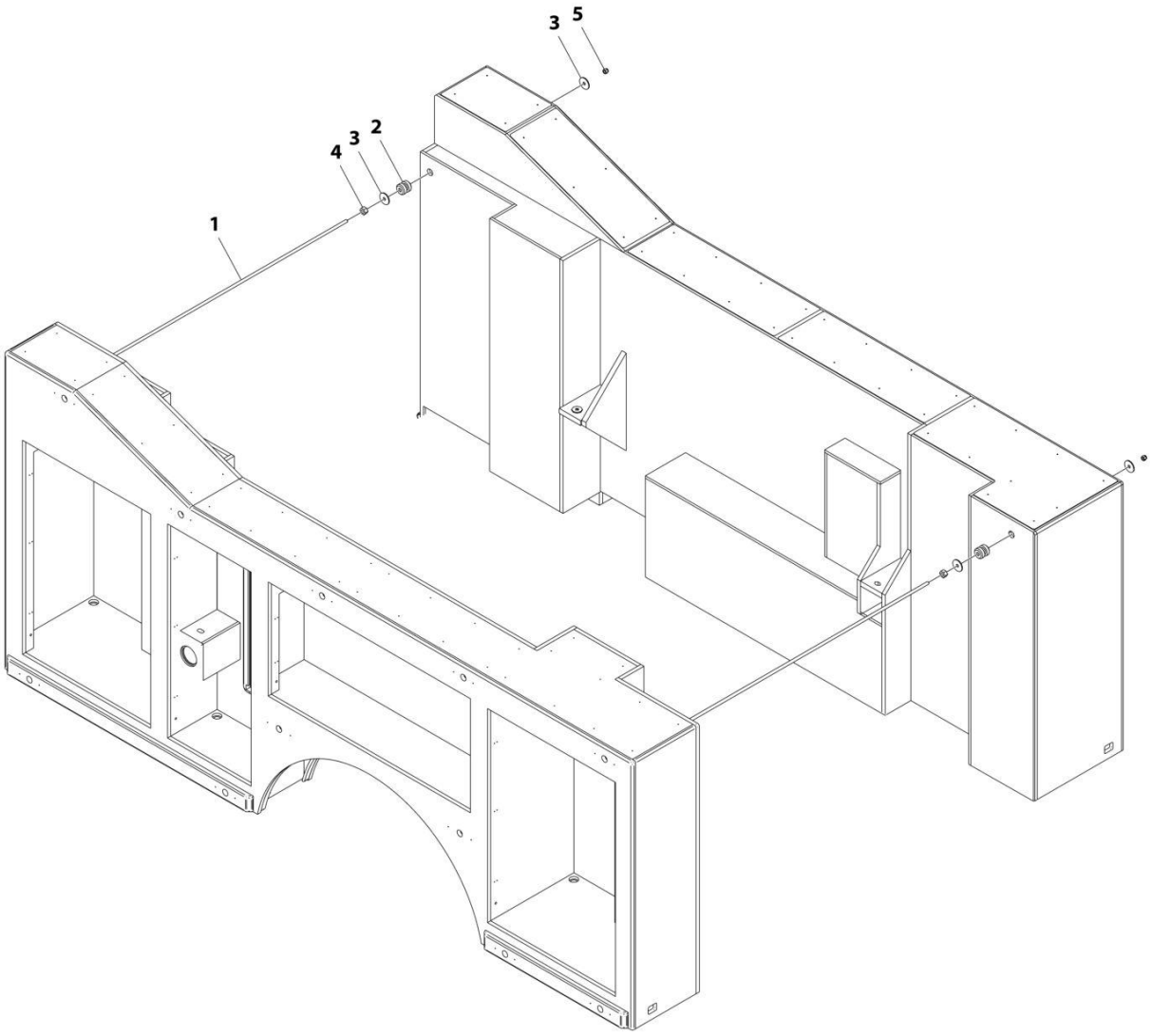


FIGURE 4-3. BRACE MID BODY INSTALLATION - WITHOUT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178303	Ref	Brace Mid Body Installation	A
1	1001178305	2	Rod	
2	1001178306	4	Mount	
3	1001138172	8	Washer	
4	7660180200	4	Nut 1/2	
5	7660182601	4	Nut 1/2	

FIGURE 4-4. BRACE MID BODY INSTALLATION - WITH AXLE

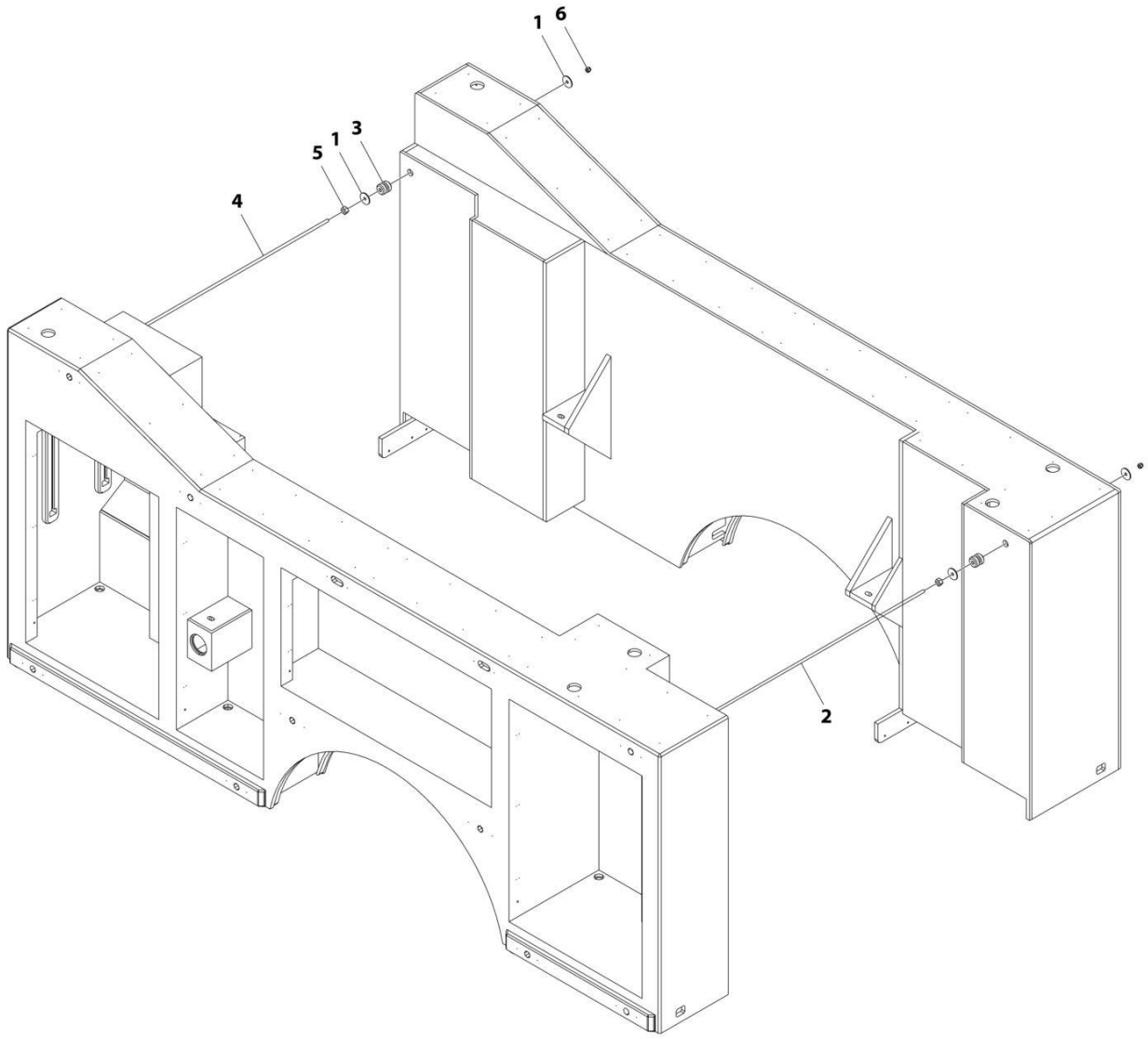


FIGURE 4-4. BRACE MID BODY INSTALLATION - WITH AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001210053	Ref	Brace Mid Body Installation - 5TS	A
1	1001138172	8	Washer	
2	1001178305	1	Rod	
3	1001178306	4	Mount	
4	1001210059	1	Rod	
5	7660180200	4	Nut 1/2	
6	7660182601	4	Nut 1/2	

FIGURE 4-5. DIAMOND PLATE INSTALLATION - BODY

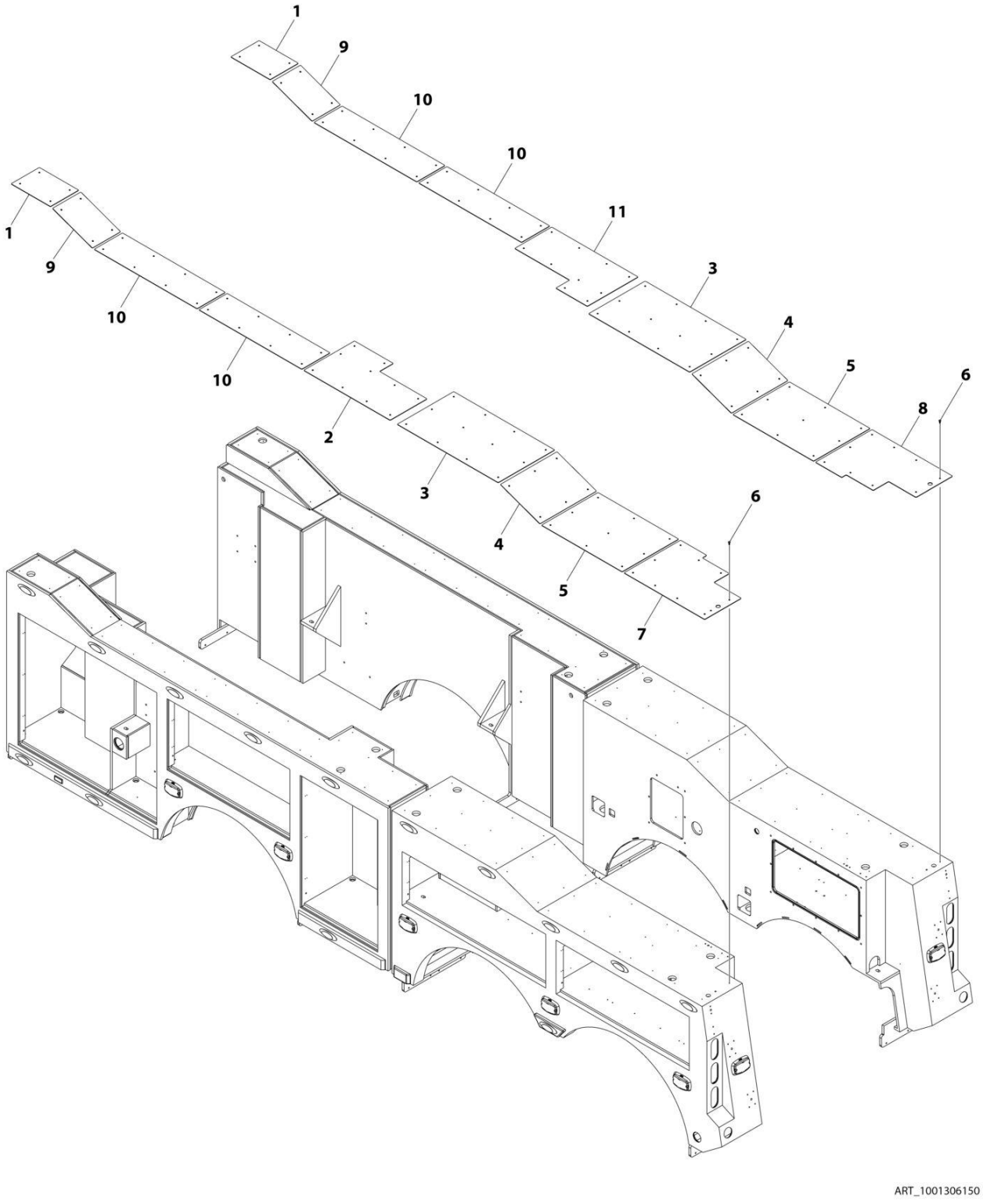


FIGURE 4-5. DIAMOND PLATE INSTALLATION - BODY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306150	Ref	DIAMOND PLATE INSTALLATION	A
1	1001163428	2	Plate	
2	1001163453	1	Plate	
3	1001163615	2	Plate	
4	1001163626	2	Plate	
5	1001163628	2	Plate	
6	1001192958	140	Screw #10 x 1/2	
7	1001282237	1	Plate	
8	1001282238	1	Plate	
9	1001306148	2	Plate	
10	1001306149	4	Plate	
11	1001306152	1	Plate	

FIGURE 4-6. DIAMOND PLATE INSTALLATION - TALL TUNNEL

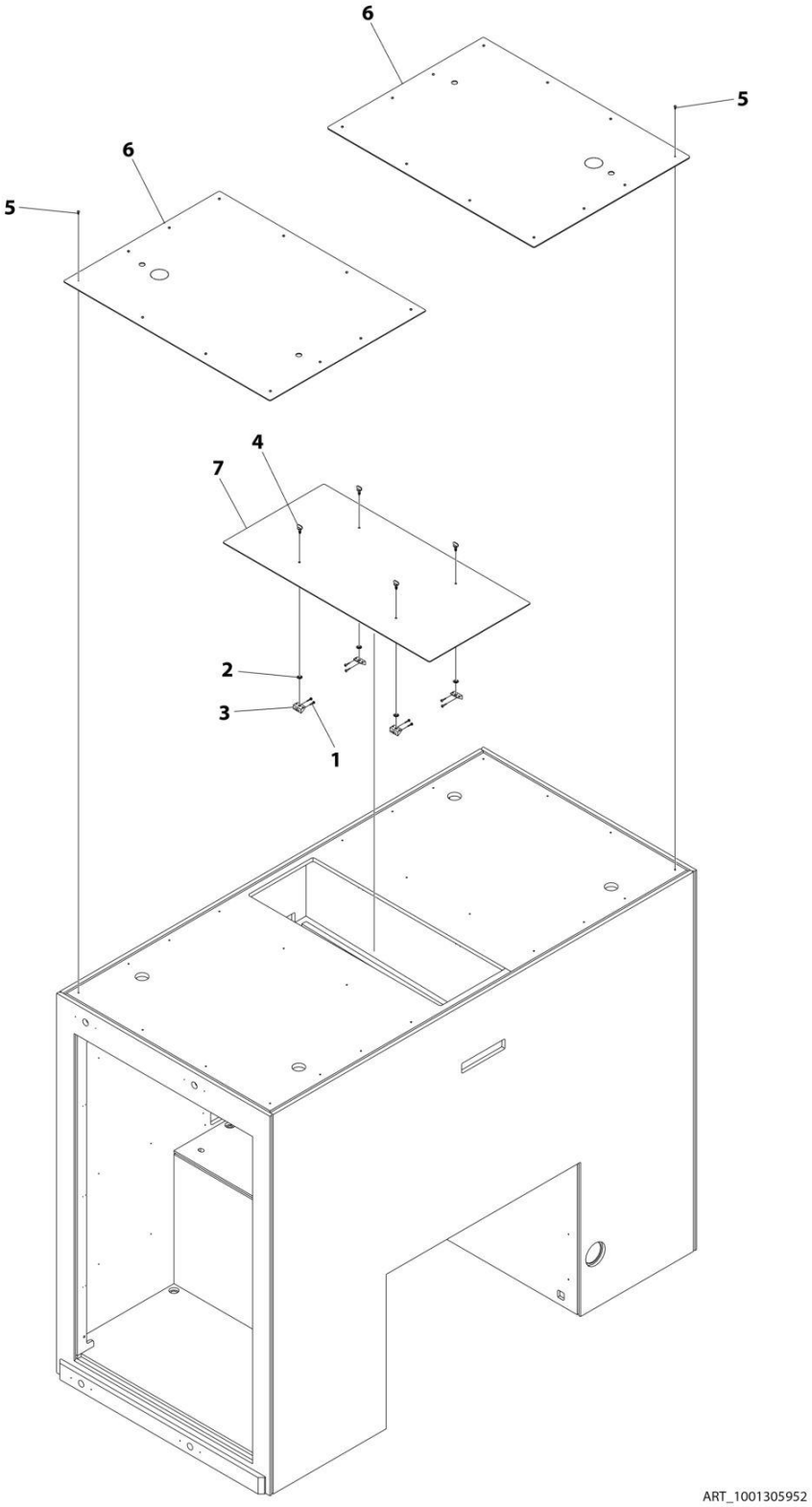


FIGURE 4-6. DIAMOND PLATE INSTALLATION - TALL TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305952	Ref	DIAMOND PLATE INSTALLATION	A
1	0750605	8	Screw	
2	3760308	4	Ring, Retaining	
3	1001122235	4	Bracket	
4	1001166930	4	Screw, Turn	
5	1001192958	24	Screw #10 x 1/2	
6	1001274386	2	Plate	
7	1001306157	1	Plate	

FIGURE 4-7. DIAMOND PLATE INSTALLATION - SHORT TUNNEL

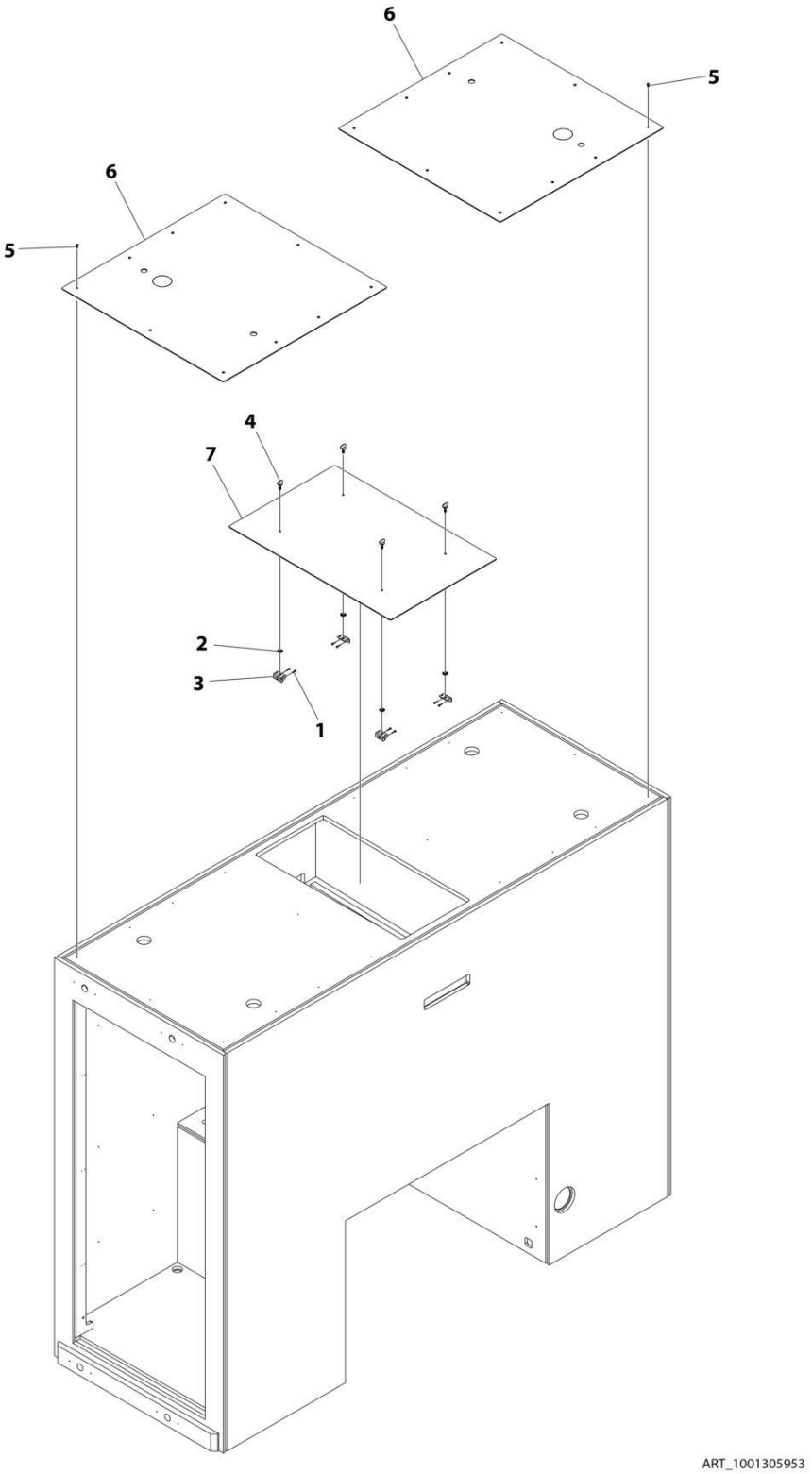


FIGURE 4-7. DIAMOND PLATE INSTALLATION - SHORT TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305953	Ref	DIAMOND PLATE INSTALLATION	A
1	0750605	8	Screw	
2	3760308	4	Ring, Retaining	
3	1001122235	4	Bracket	
4	1001166930	4	Screw, Turn	
5	1001192958	20	Screw #10 x 1/2	
6	1001278517	2	Plate	
7	1001306445	1	Plate	

FIGURE 4-8. DIAMOND PLATE INSTALLATION - 56IN TUNNEL

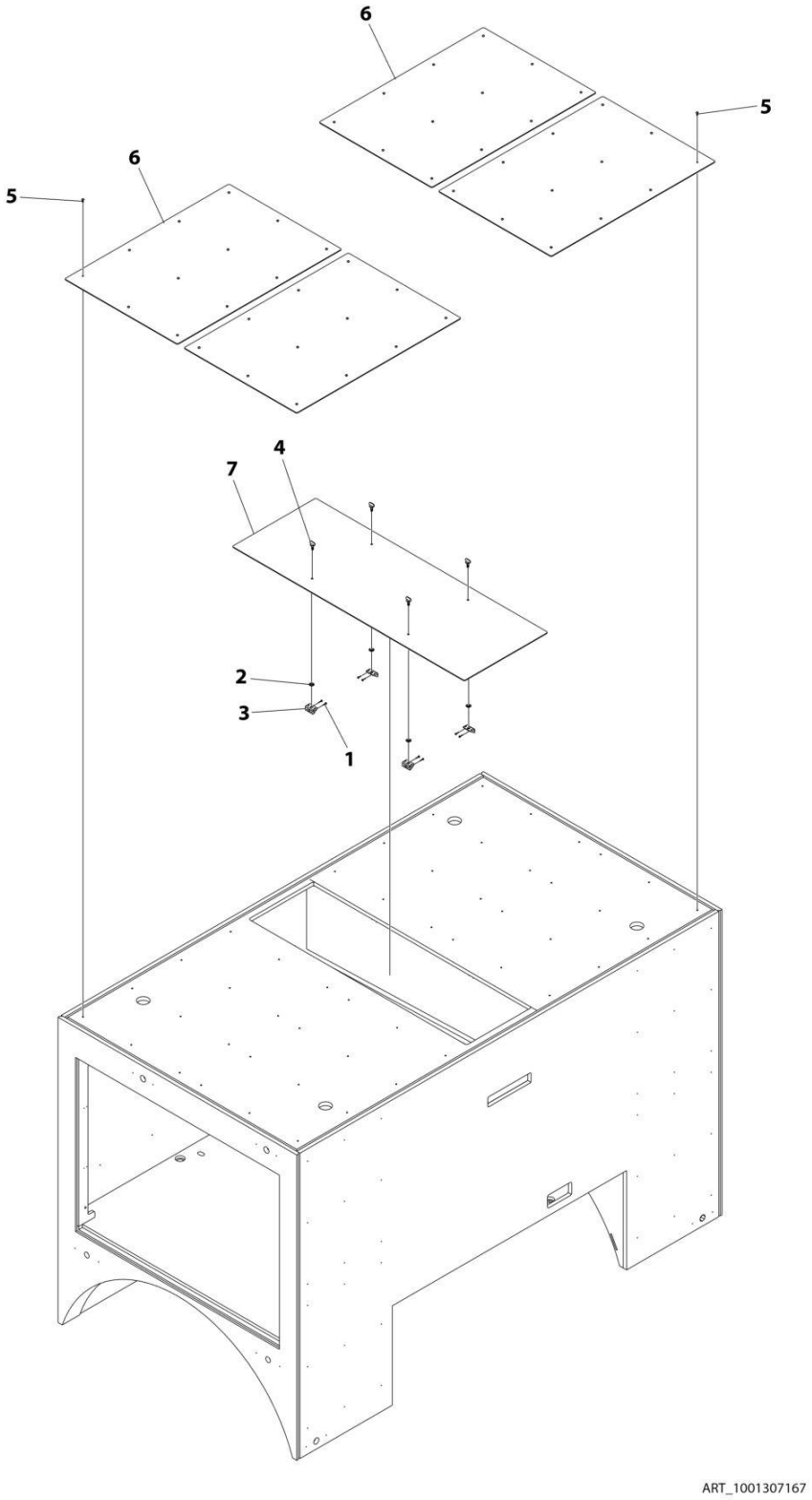
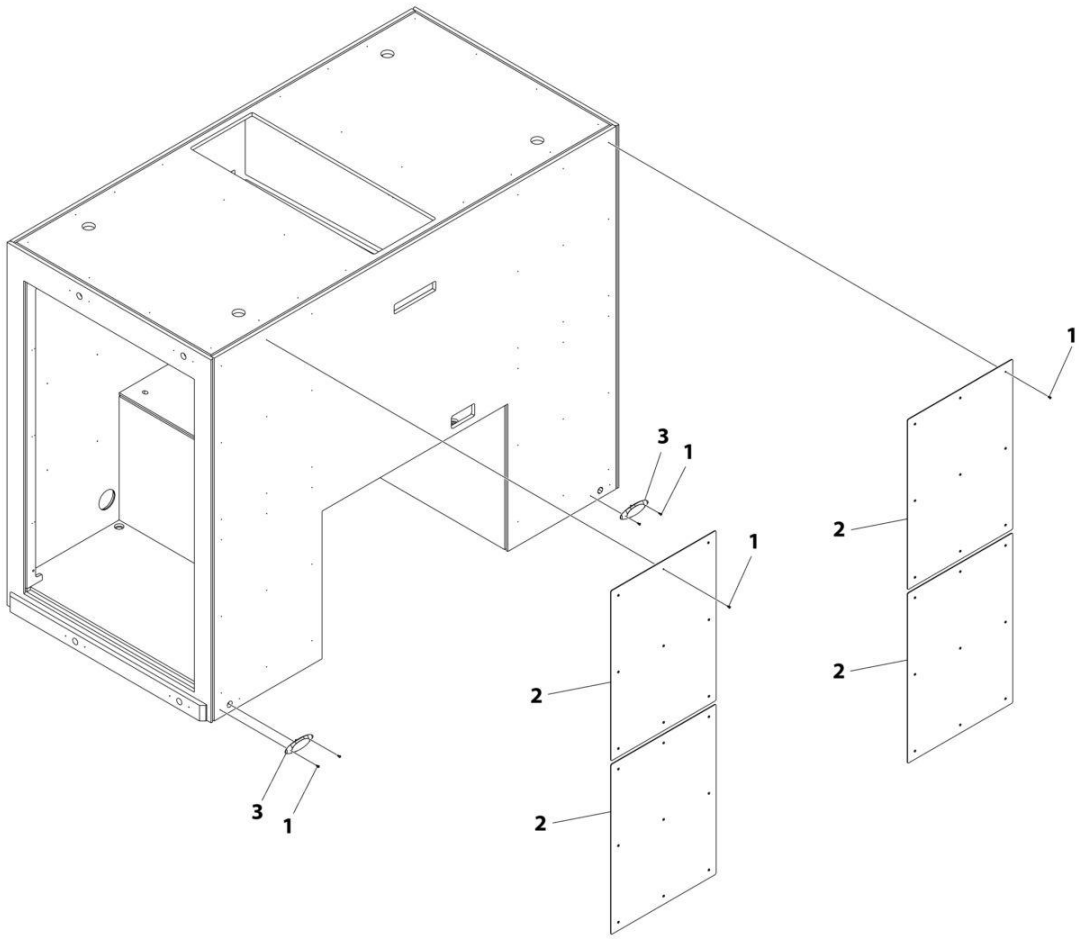


FIGURE 4-8. DIAMOND PLATE INSTALLATION - 56IN TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307167	Ref	DIAMOND PLATE INSTALLATION	A
1	0750605	8	Screw	
2	3760308	4	Ring, Retaining	
3	1001122235	4	Bracket	
4	1001166930	4	Screw, Turn	
5	1001192958	48	Screw #10 x 1/2	
6	1001228768	4	Plate	
7	1001307159	1	Plate	

FIGURE 4-9. DIAMOND PLATE INSTALLATION - FRONT (TALL TUNNEL)



ART_1001306189

FIGURE 4-9. DIAMOND PLATE INSTALLATION - FRONT (TALL TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306189	Ref	DIAMOND PLATE INSTALLATION - FRONT	A
1	1001192958	40	Screw #10 x 1/2	
2	1001306124	4	Plate, Front	
3	7590000358	2	Light, LED (Amber)	

FIGURE 4-10. DIAMOND PLATE INSTALLATION - FRONT (SHORT TUNNEL)

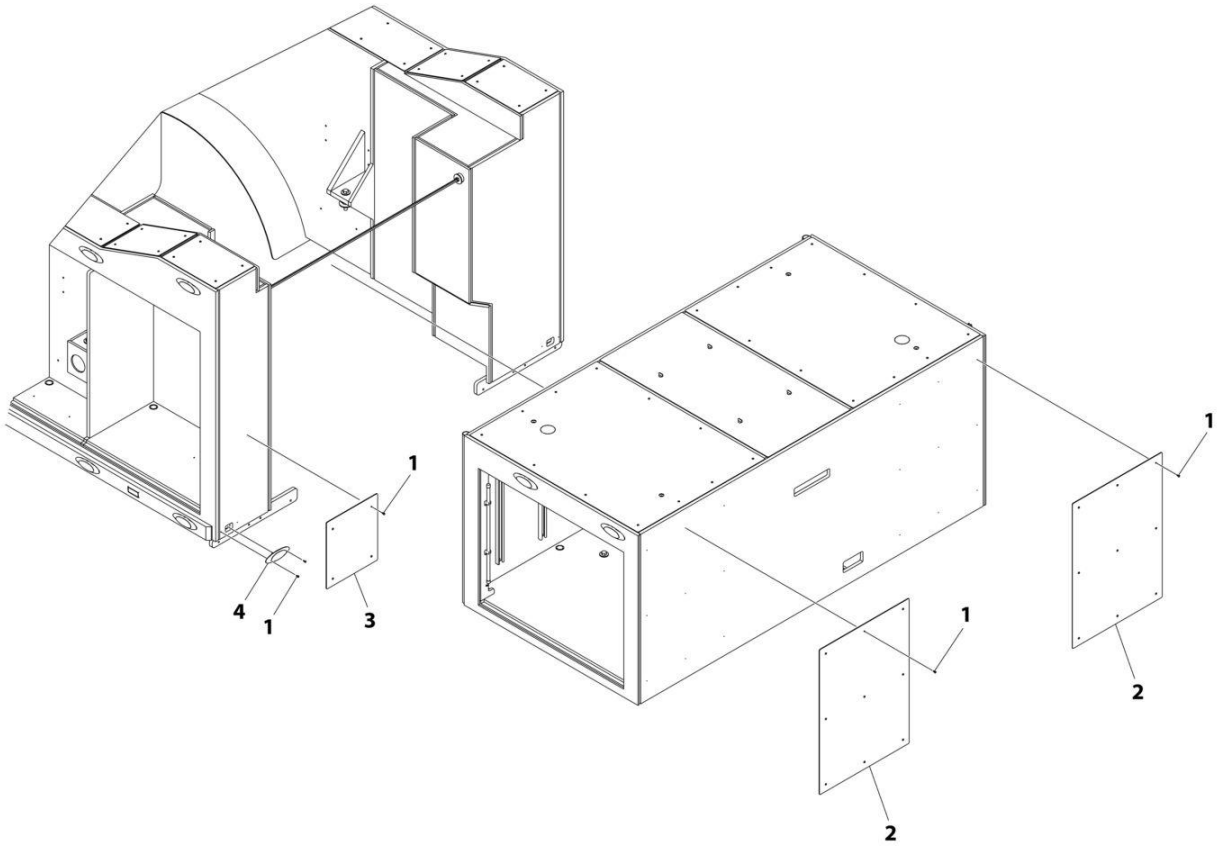


FIGURE 4-10. DIAMOND PLATE INSTALLATION - FRONT (SHORT TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306190	Ref	DIAMOND PLATE INSTALLATION - FRONT	A
1	1001192958	30	Screw #10 x 1/2	
2	1001306124	2	Plate, Front	
3	1001307487	2	Plate, Front	
4	7590000358	2	Light, LED (Amber)	

FIGURE 4-11. DIAMOND PLATE INSTALLATION - FRONT (56" TANDEM STEER)

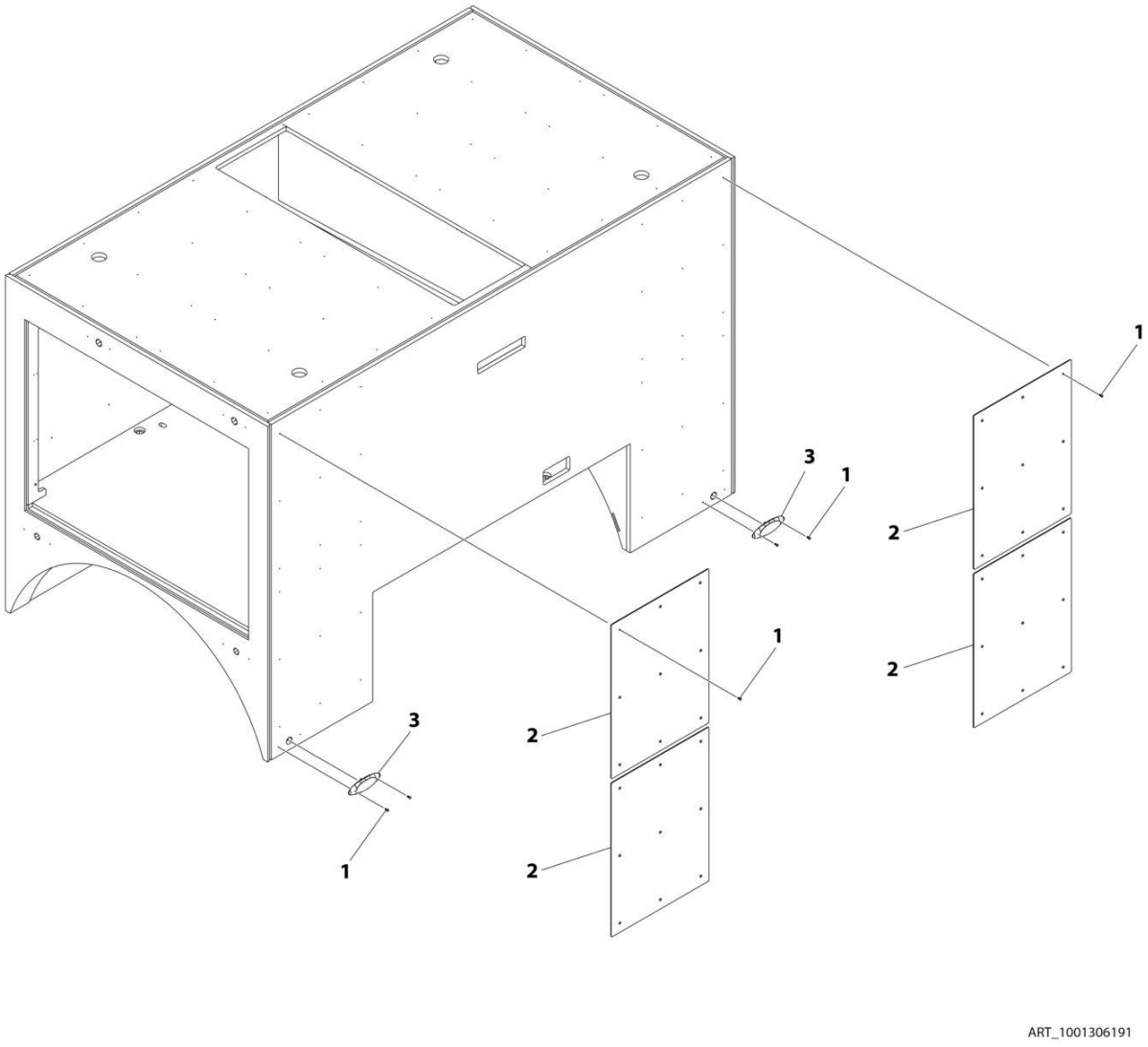


FIGURE 4-11. DIAMOND PLATE INSTALLATION - FRONT (56" TANDEM STEER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306191	Ref	DIAMOND PLATE INSTALLATION - FRONT	A
1	1001192958	40	Screw #10 x 1/2	
2	1001307021	4	Plate, Front	
3	7590000358	2	Light, LED (Amber)	

FIGURE 4-12. DOORS INSTALLATION - REAR/MID (WITHOUT AXLE)

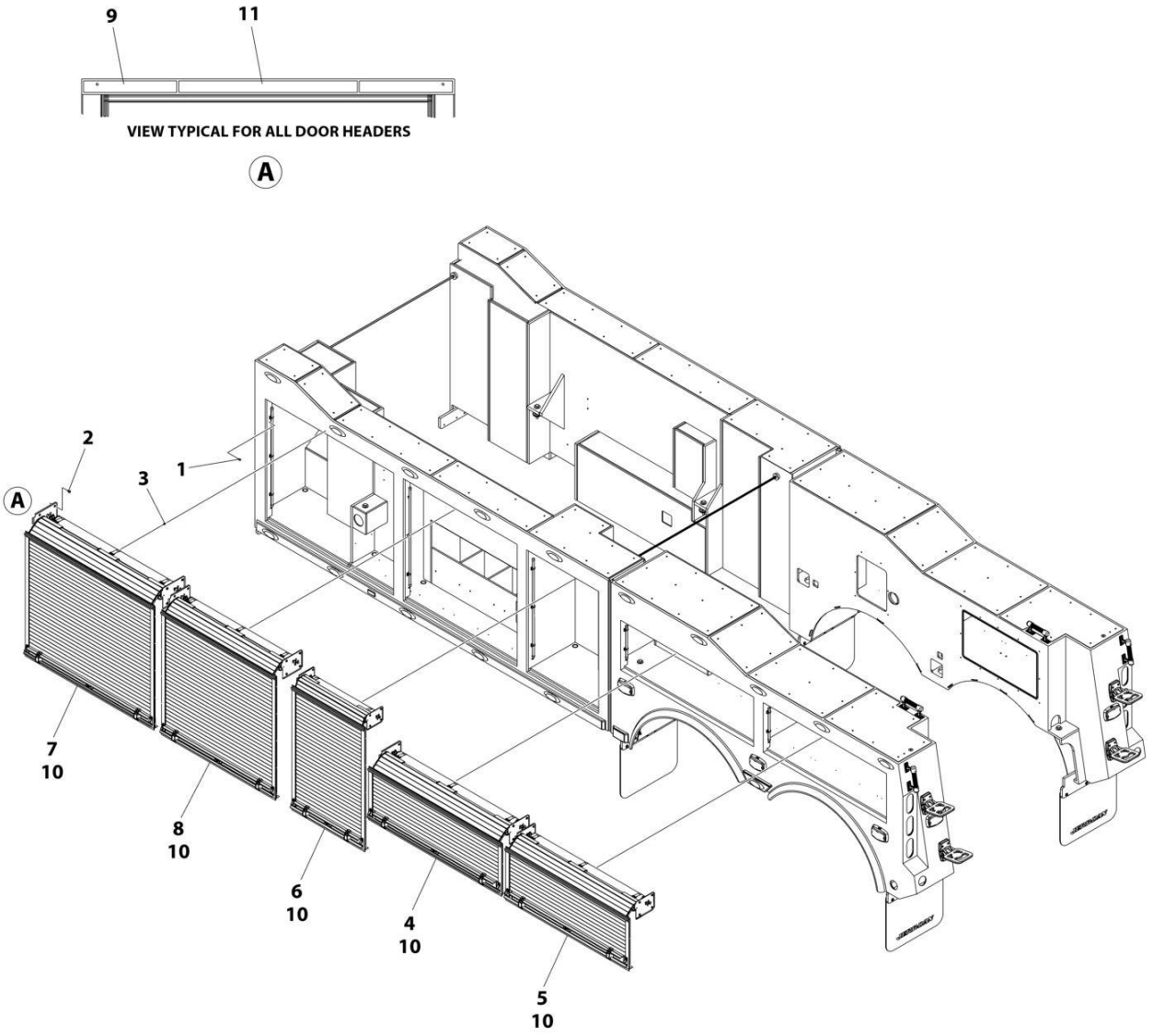


FIGURE 4-12. DOORS INSTALLATION - REAR/MID (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307778	Ref	DOORS INSTALLATION	A
1	1001192958	66	Screw #10 x 1/2	
2	1001195257	80	Screw 1/4 x 1/2	
3	1001198602	46	Screw #8 x 3/8	
4	1001285647	2	Door, Rollup	
5	1001285648	2	Door, Rollup	
6	1001305662	2	Door, Rollup	
7	1001305665	2	Door, Rollup	
8	1001306018	2	Door, Rollup	
9	7796000012	10 ft	Seal	
10	8798820001	AR	Sealant	
11	8892040001	AR	Tape	

FIGURE 4-13. DOORS INSTALLATION - REAR/MID (WITH AXLE)

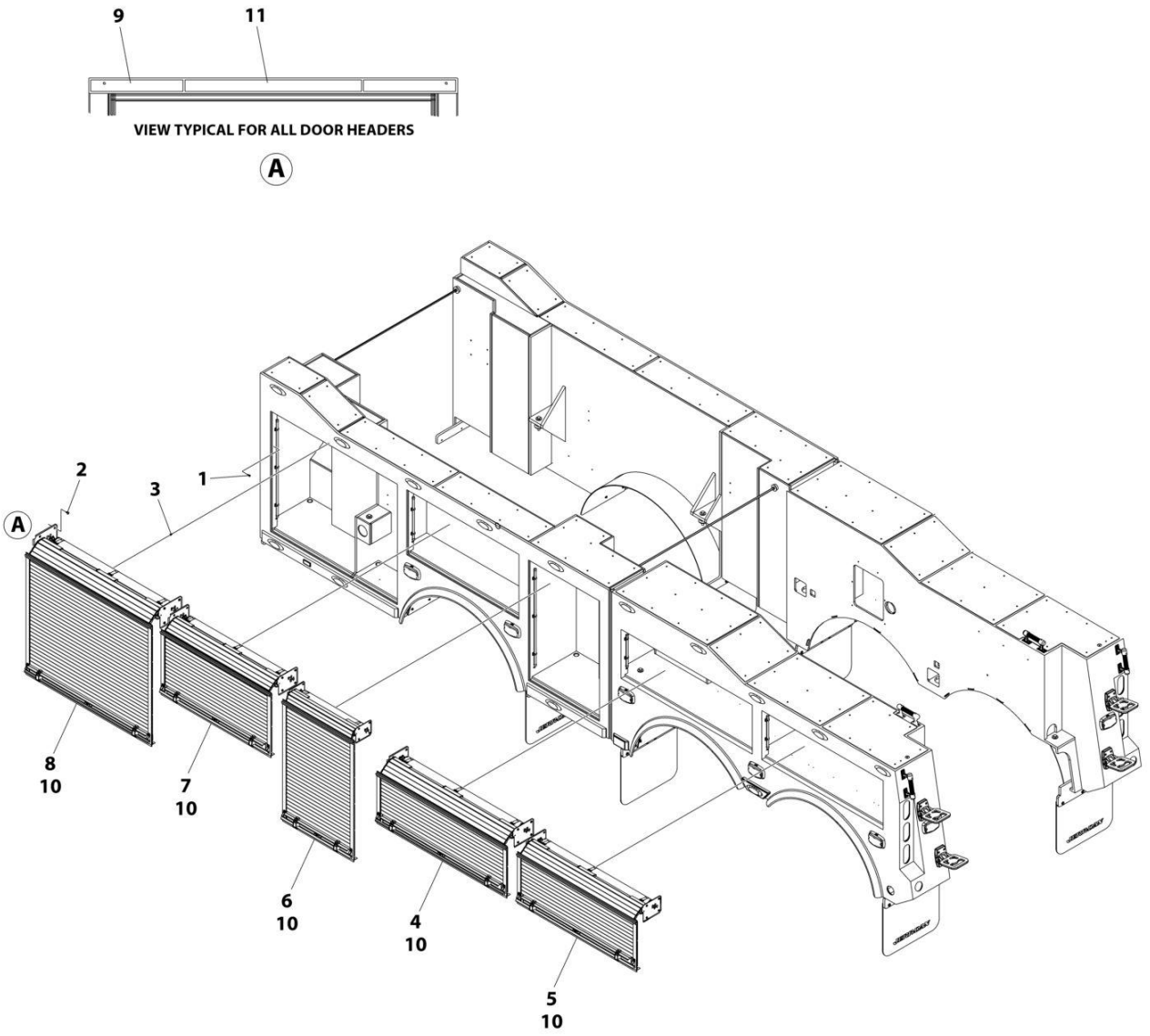


FIGURE 4-13. DOORS INSTALLATION - REAR/MID (WITH AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305661	Ref	DOORS INSTALLATION	A
1	1001192958	58	Screw #10 x 1/2	
2	1001195257	80	Screw 1/4 x 1/2	
3	1001198602	46	Screw #8 x 3/8	
4	1001285647	2	Door, Rollup	
5	1001285648	2	Door, Rollup	
6	1001305662	2	Door, Rollup	
7	1001305663	2	Door, Rollup	
8	1001305665	2	Door, Rollup	
9	7796000012	10 ft	Seal	
10	8798820001	AR	Sealant	
11	8892040001	AR	Tape	

FIGURE 4-14. DOOR INSTALLATION - 38IN TALL TUNNEL

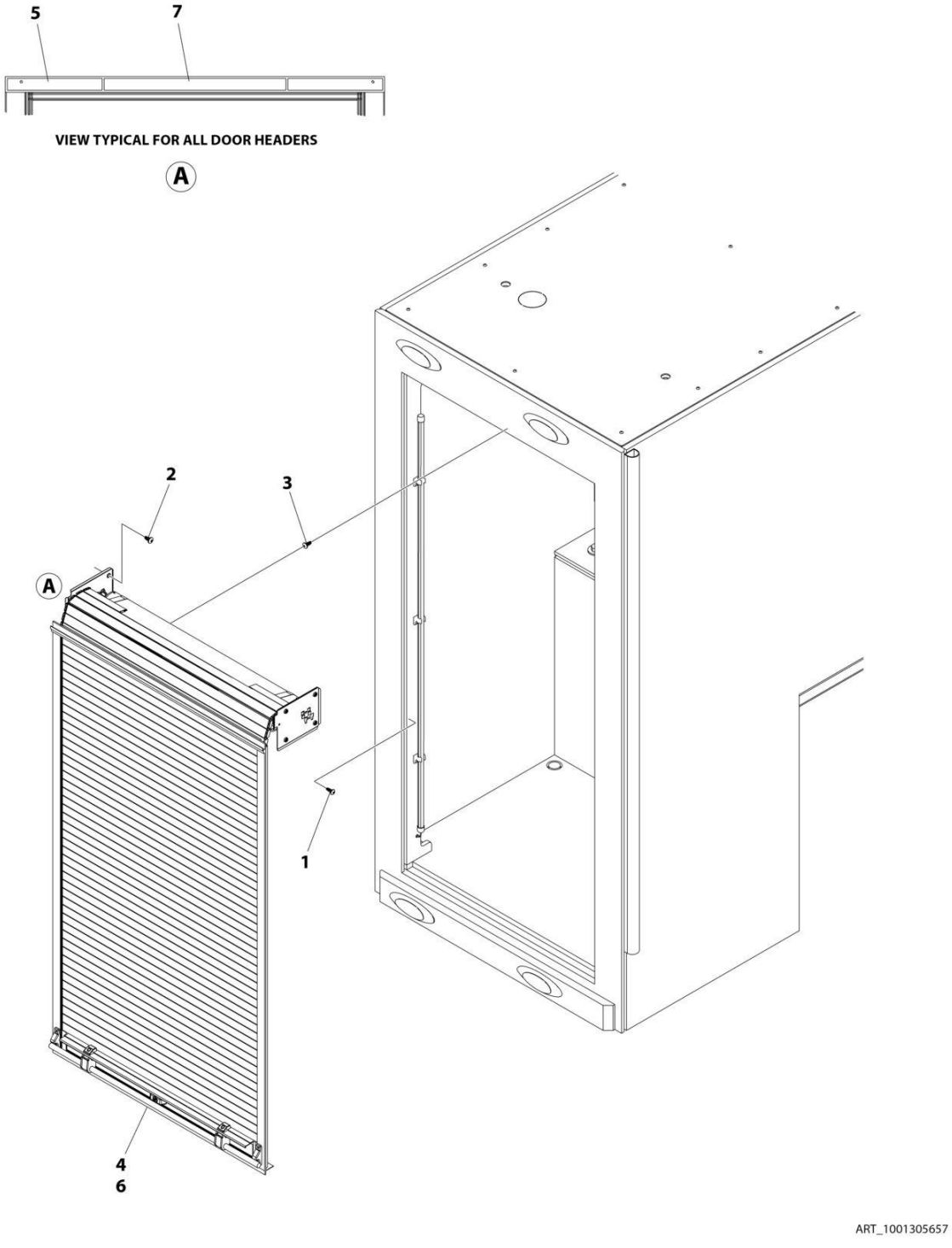


FIGURE 4-14. DOOR INSTALLATION - 38IN TALL TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305657	Ref	DOOR INSTALLATION	A
1	1001192958	28	Screw #10 x 1/2	
2	1001195257	16	Screw 1/4 x 1/2	
3	1001198602	6	Screw #8 x 3/8	
4	1001305656	2	Door, Rollup	
5	7796000012	2 ft	Seal	
6	8798820001	AR	Sealant	
7	8892040001	AR	Tape	

FIGURE 4-15. DOOR INSTALLATION - 38IN SHORT TUNNEL

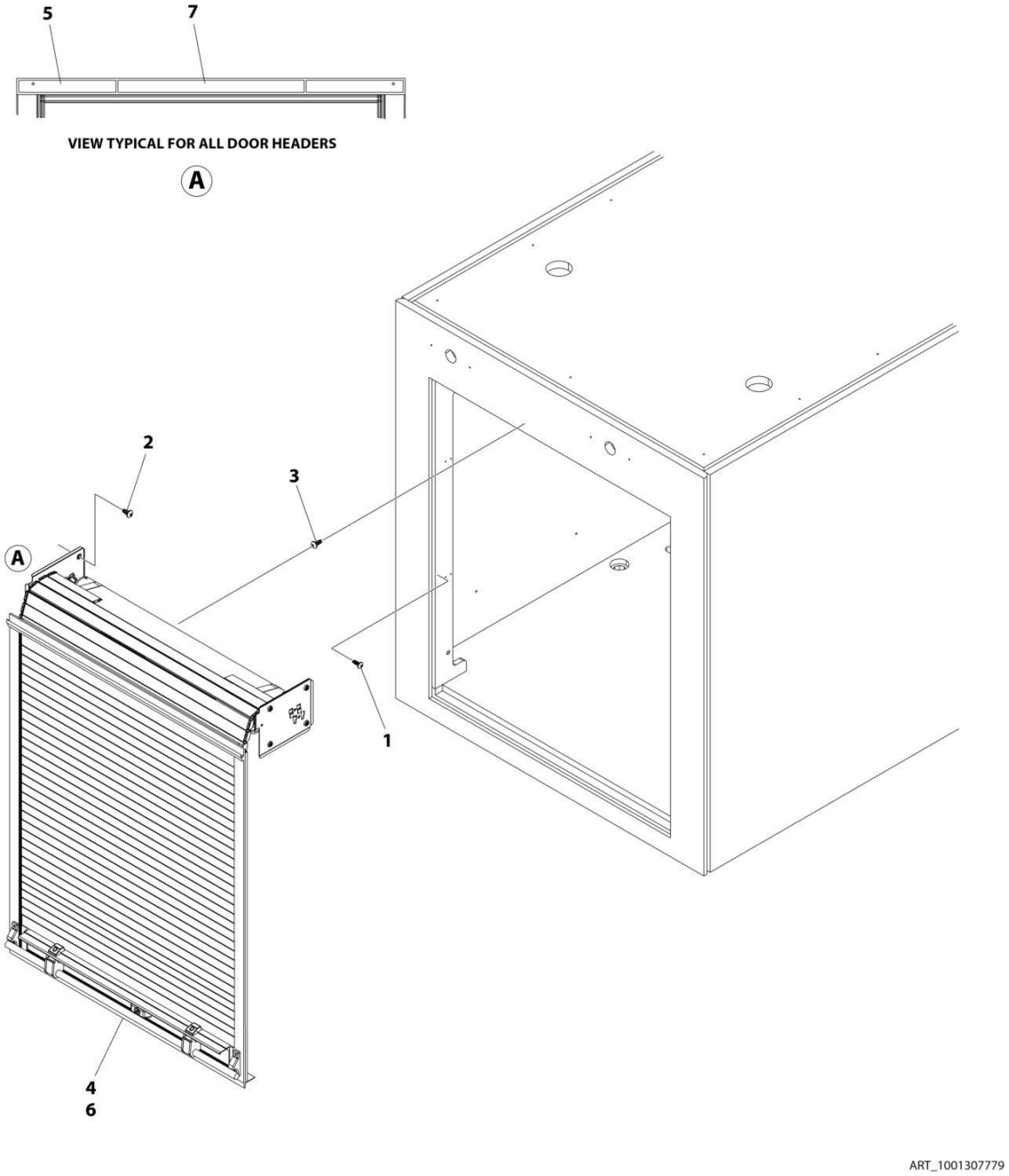


FIGURE 4-15. DOOR INSTALLATION - 38IN SHORT TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307779	Ref	DOOR INSTALLATION	A
1	1001192958	16	Screw #10 x 1/2	
2	1001195257	16	Screw 1/4 x 1/2	
3	1001198602	6	Screw #8 x 3/8	
4	1001306015	2	Door, Rollup	
5	7796000012	2 ft	Seal	
6	8798820001	AR	Sealant	
7	8892040001	AR	Tape	

FIGURE 4-16. DOOR INSTALLATION - 50IN TALL TUNNEL

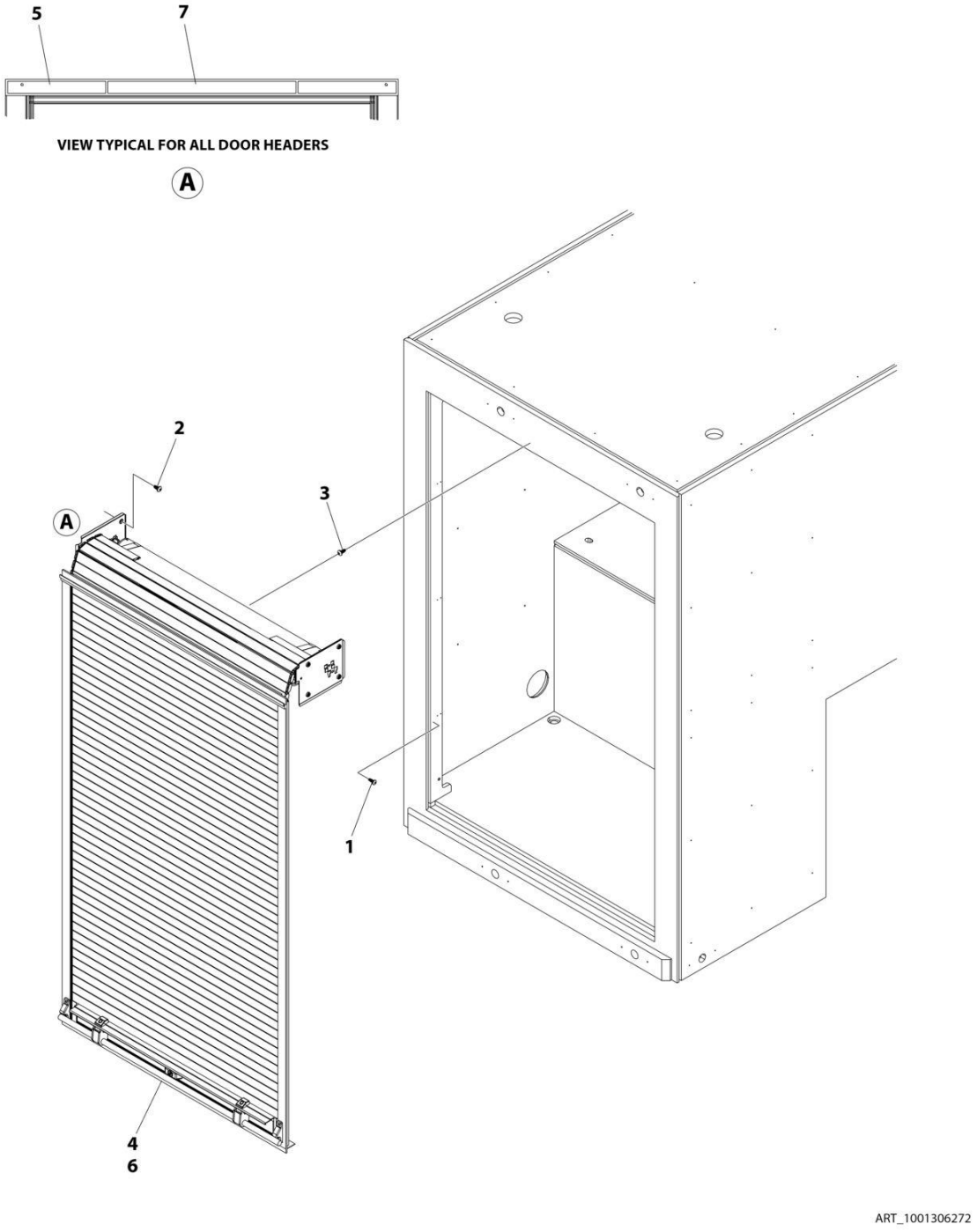


FIGURE 4-16. DOOR INSTALLATION - 50IN TALL TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306272	Ref	DOOR INSTALLATION	A
1	1001192958	28	Screw #10 x 1/2	
2	1001195257	16	Screw 1/4 x 1/2	
3	1001198602	10	Screw #8 x 3/8	
4	1001306273	2	Door, Rollup	
5	7796000012	2 ft	Seal	
6	8798820001	AR	Sealant	
7	8892040001	AR	Tape	

FIGURE 4-17. DOOR INSTALLATION - 50IN SHORT TUNNEL

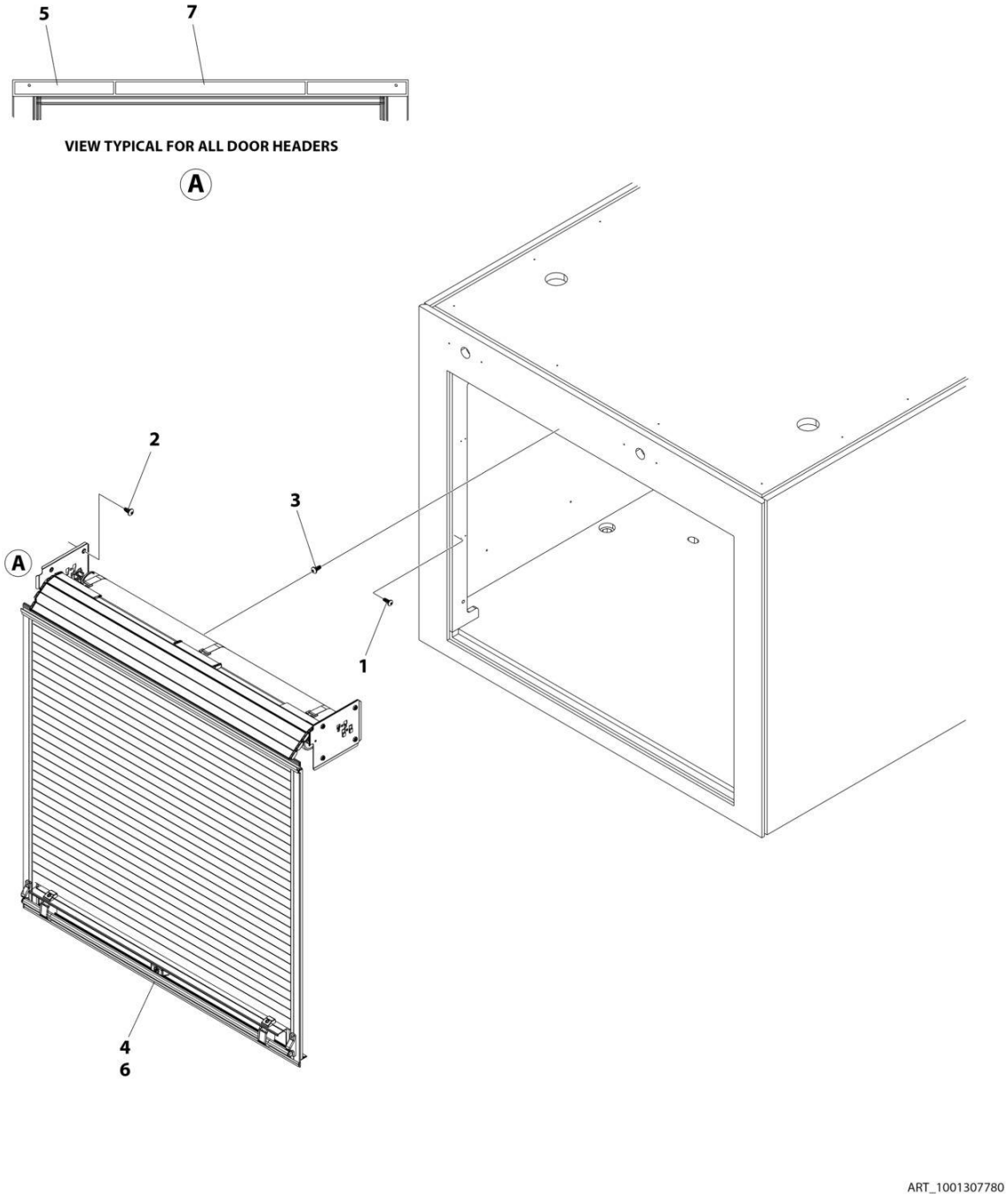


FIGURE 4-17. DOOR INSTALLATION - 50IN SHORT TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307780	Ref	DOOR INSTALLATION	A
1	1001192958	16	Screw #10 x 1/2	
2	1001195257	16	Screw 1/4 x 1/2	
3	1001198602	10	Screw #8 x 3/8	
4	1001307815	2	Door, Rollup	
5	7796000012	2 ft	Seal	
6	8798820001	AR	Sealant	
7	8892040001	AR	Tape	

FIGURE 4-18. DOOR INSTALLATION - 56IN TUNNEL

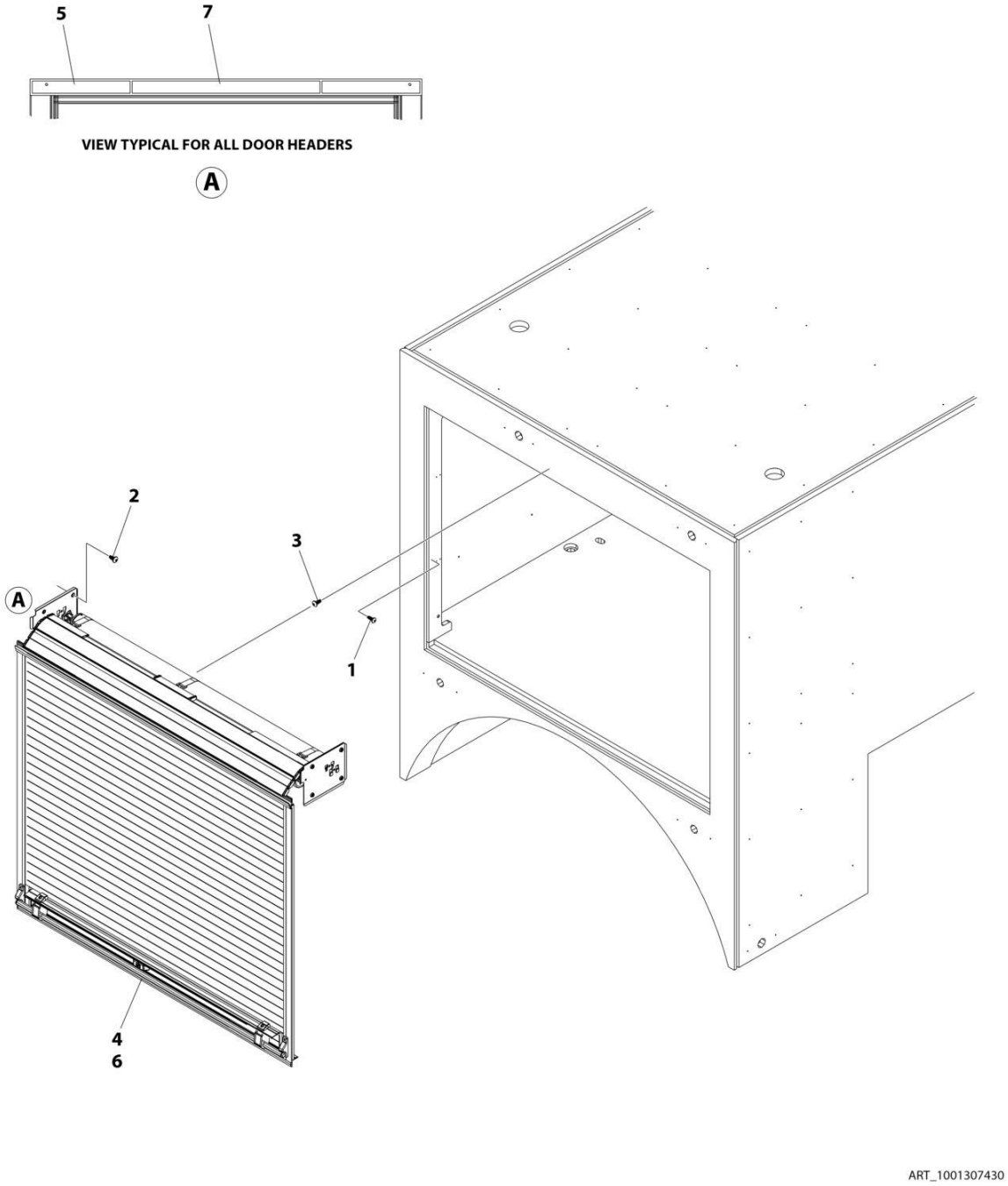


FIGURE 4-18. DOOR INSTALLATION - 56IN TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307430	Ref	DOOR INSTALLATION	A
1	1001192958	16	Screw #10 x 1/2	
2	1001195257	16	Screw 1/4 x 1/2	
3	1001198602	10	Screw #8 x 3/8	
4	1001307431	2	Door, Rollup	
5	7796000012	2 ft	Seal	
6	8798820001	AR	Sealant	
7	8892040001	AR	Tape	

FIGURE 4-19. LIFTING LUGS INSTALLATION - BODY

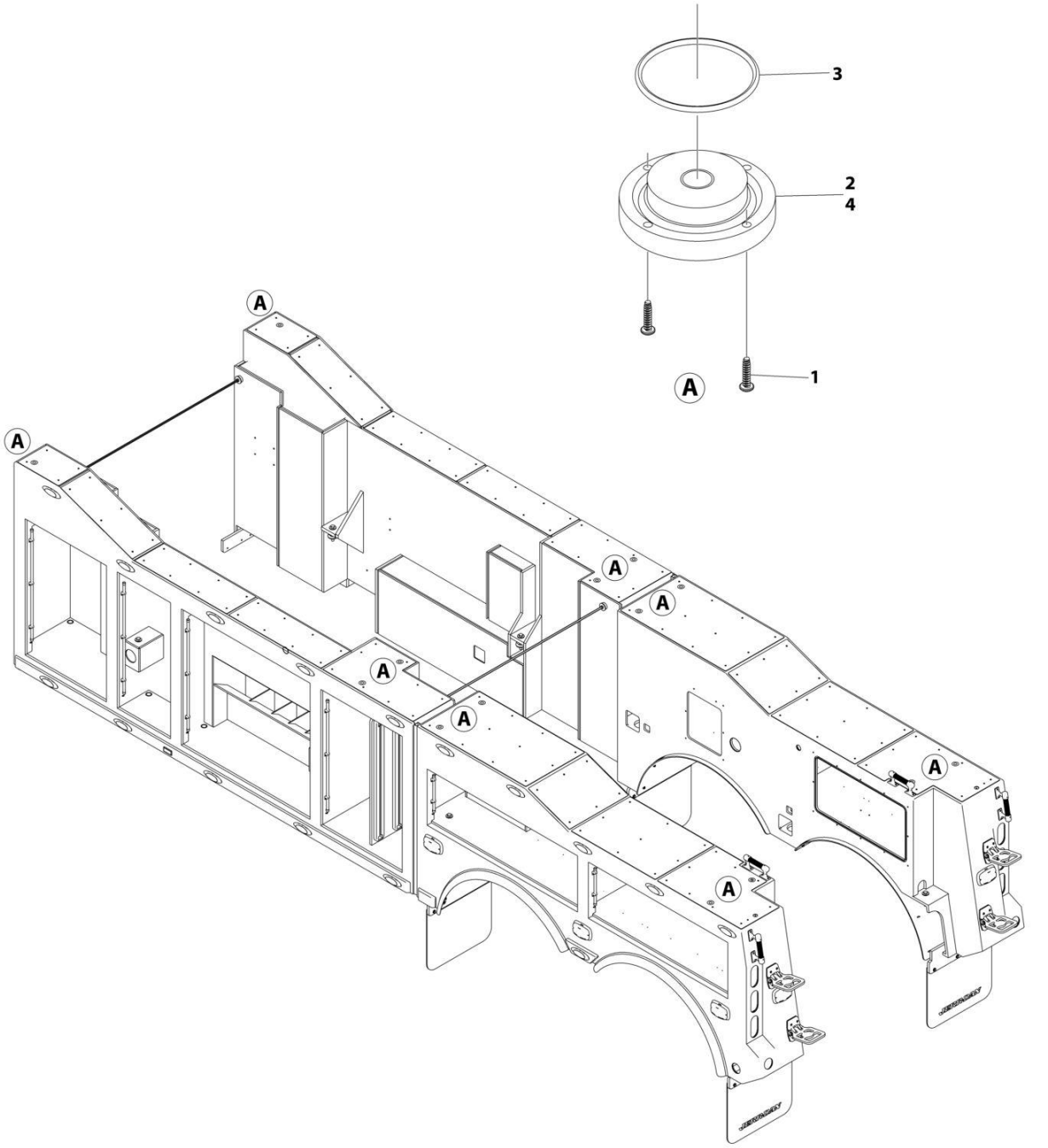


FIGURE 4-19. LIFTING LUGS INSTALLATION - BODY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001264742	Ref	BODY LIFTING LUGS INSTALLATION	B
1	1001196552	56	Screw #8 x 3/4	
2	1001288629	14	Nut	
3	3790230	14	O-Ring	
4	8798820001	AR	Sealant	

FIGURE 4-20. LIFTING LUGS INSTALLATION _TUNNEL

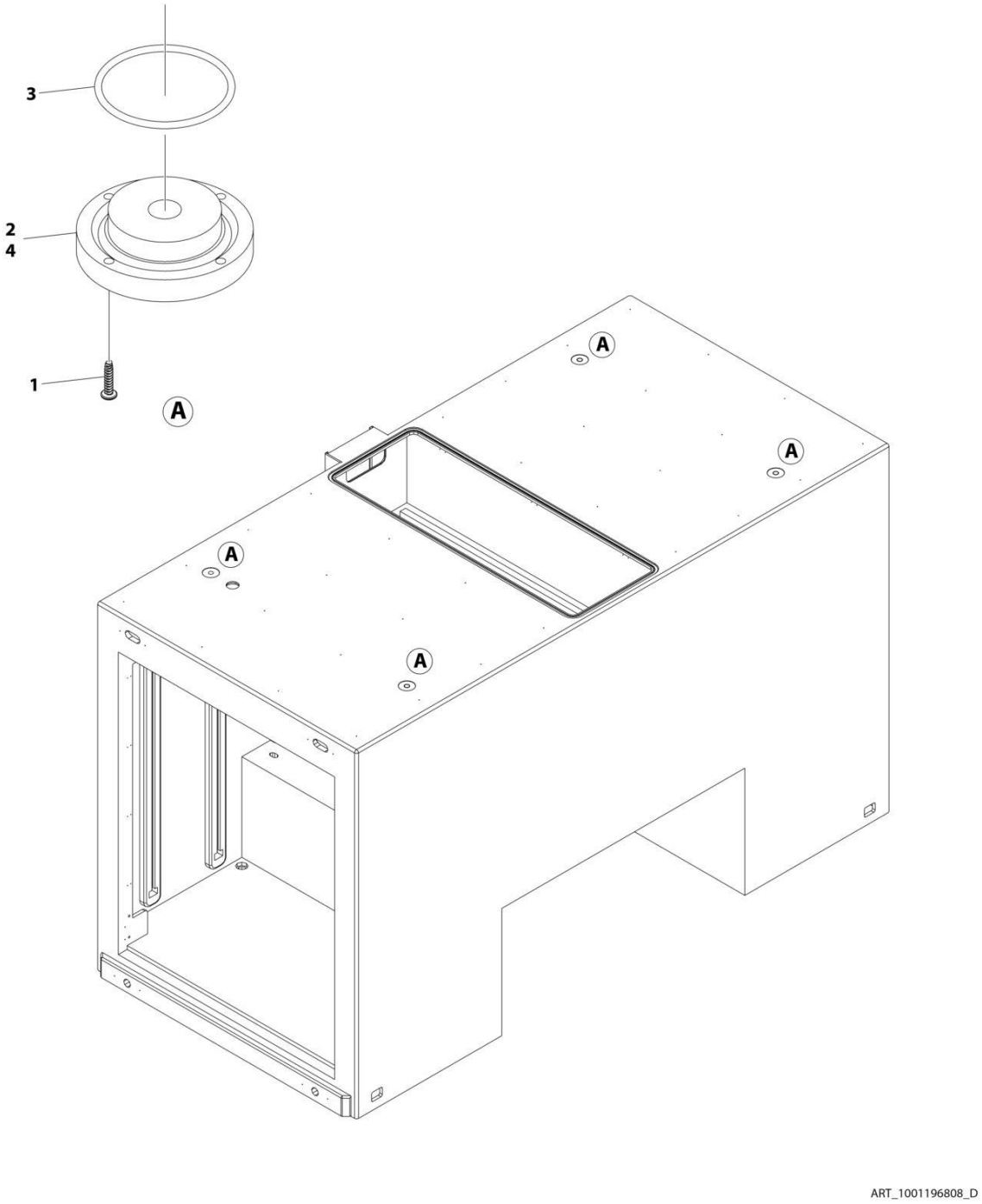


FIGURE 4-20. LIFTING LUGS INSTALLATION _TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196808	Ref	BODY LIFTING LUGS INSTALLATION	D
1	1001196552	16	Screw #8 x 3/4	
2	1001288629	4	Nut	
3	3790230	4	O-Ring	
4	8798820001	AR	Sealant	

FIGURE 4-21. FENDER FLARE AND LINER INSTALLATION - WITHOUT AXLE

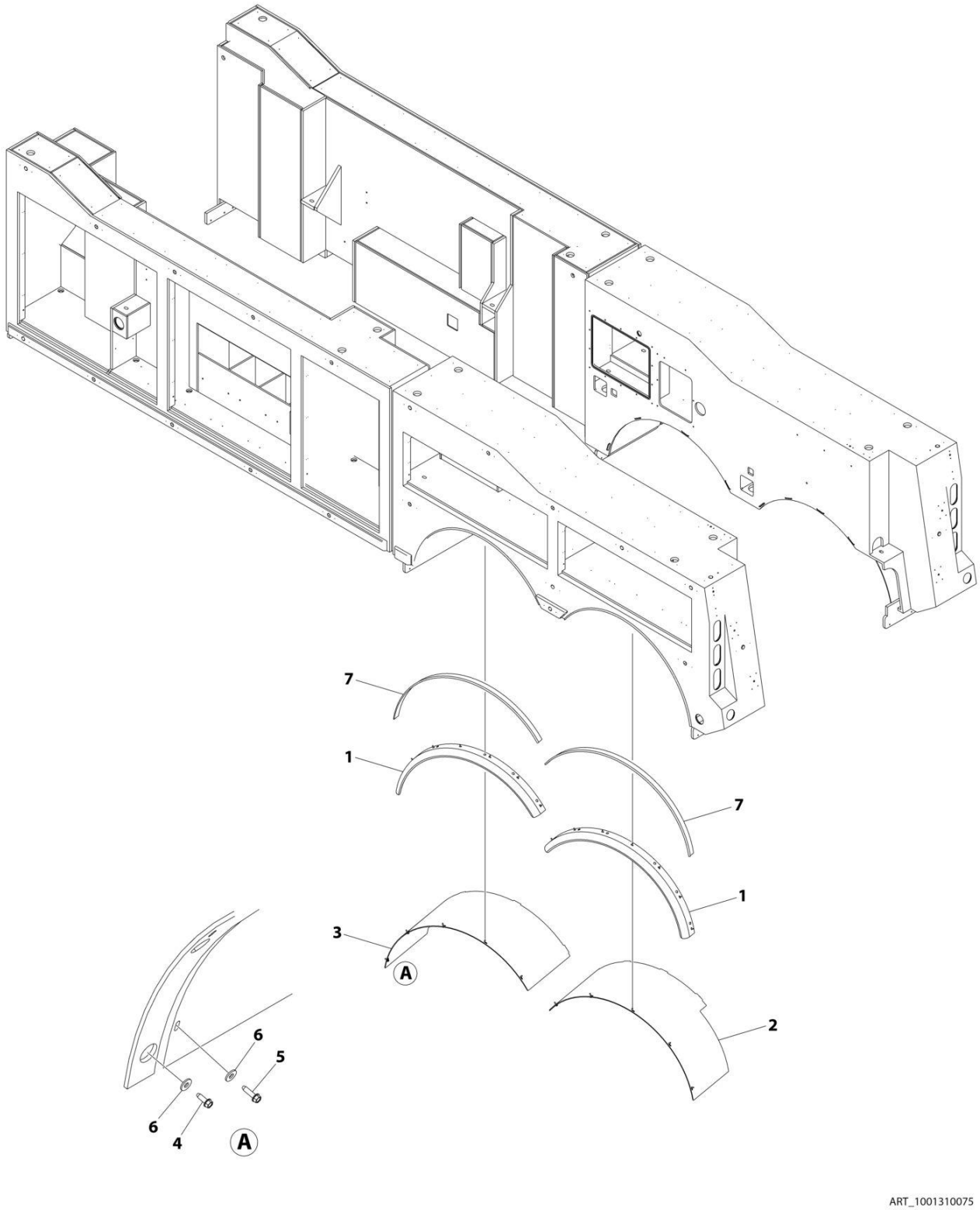


FIGURE 4-21. FENDER FLARE AND LINER INSTALLATION - WITHOUT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001310075	Ref	FENDER FLARE AND LINER INSTALLATION	A
1	1001163358	4	Flare, Fender	
2	1001310008	2	Liner (Tandem Rear)	
3	1001310016	2	Liner (Tandem Front)	
4	7790141251	28	Screw 1/4 x 3/4	
5	7790141651	20	Screw 1/4 x 1	
6	7950140163	48	Washer 1/4	
7	1001253744	22 ft	Welting, Fender	

FIGURE 4-22. FENDER FLARE AND LINER INSTALLATION - WITH AXLE

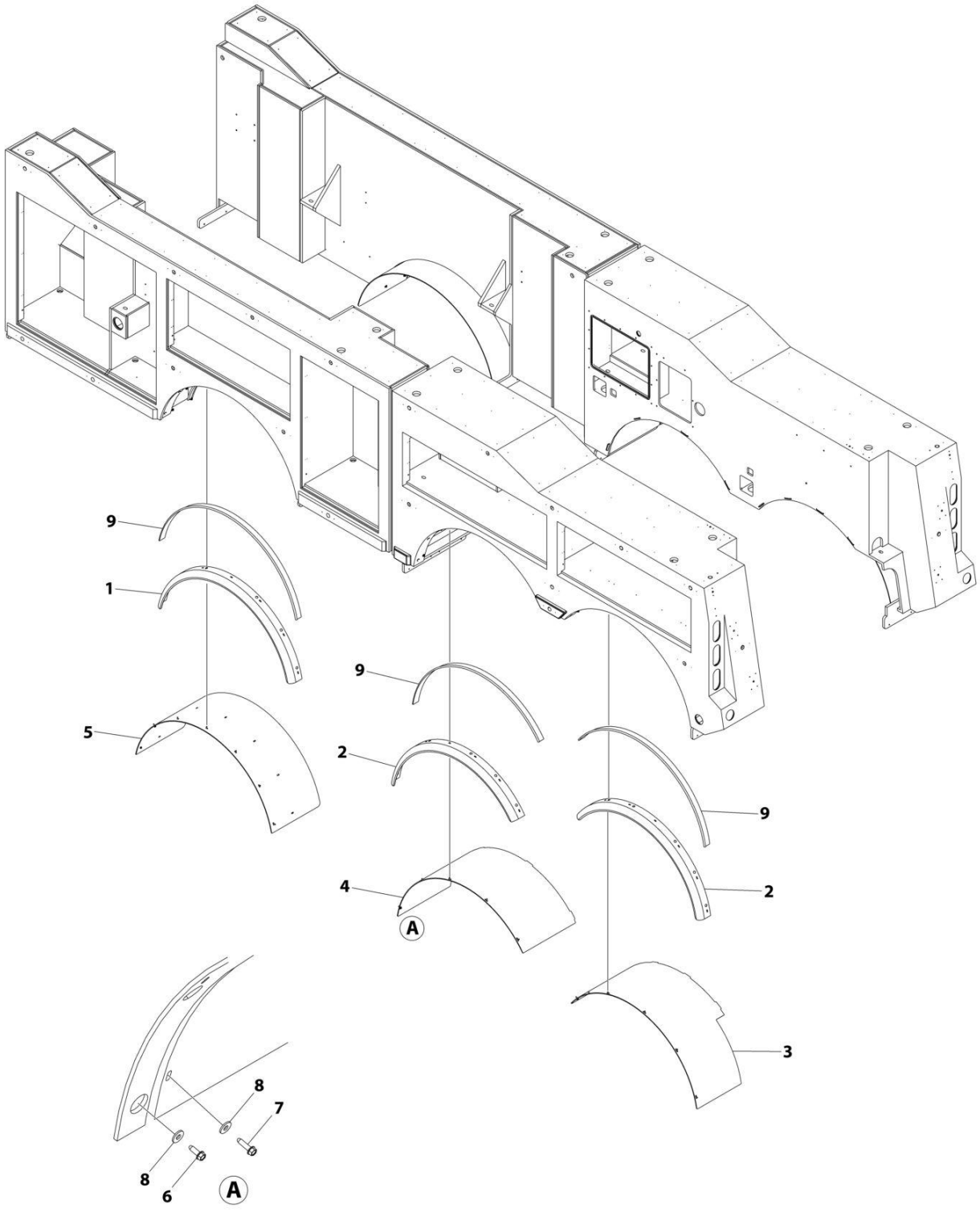


FIGURE 4-22. FENDER FLARE AND LINER INSTALLATION - WITH AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001310007	Ref	FENDER FLARE AND LINER INSTALLATION	A
1	1001163357	2	Flare, Fender (Mid)	
2	1001163358	4	Flare, Fender (Rear)	
3	1001310008	2	Liner (Tandem Rear)	
4	1001310016	2	Liner (Tandem Front)	
5	1001310030	2	Liner (Mid Body)	
6	7790141251	42	Screw 1/4 x 3/4	
7	7790141651	48	Screw 1/4 x 1	
8	7950140163	90	Washer 1/4	
9	1001253744	35 ft	Welting, Fender	

FIGURE 4-23. FENDER FLARE AND LINER INSTALLATION - 56IN TUNNEL

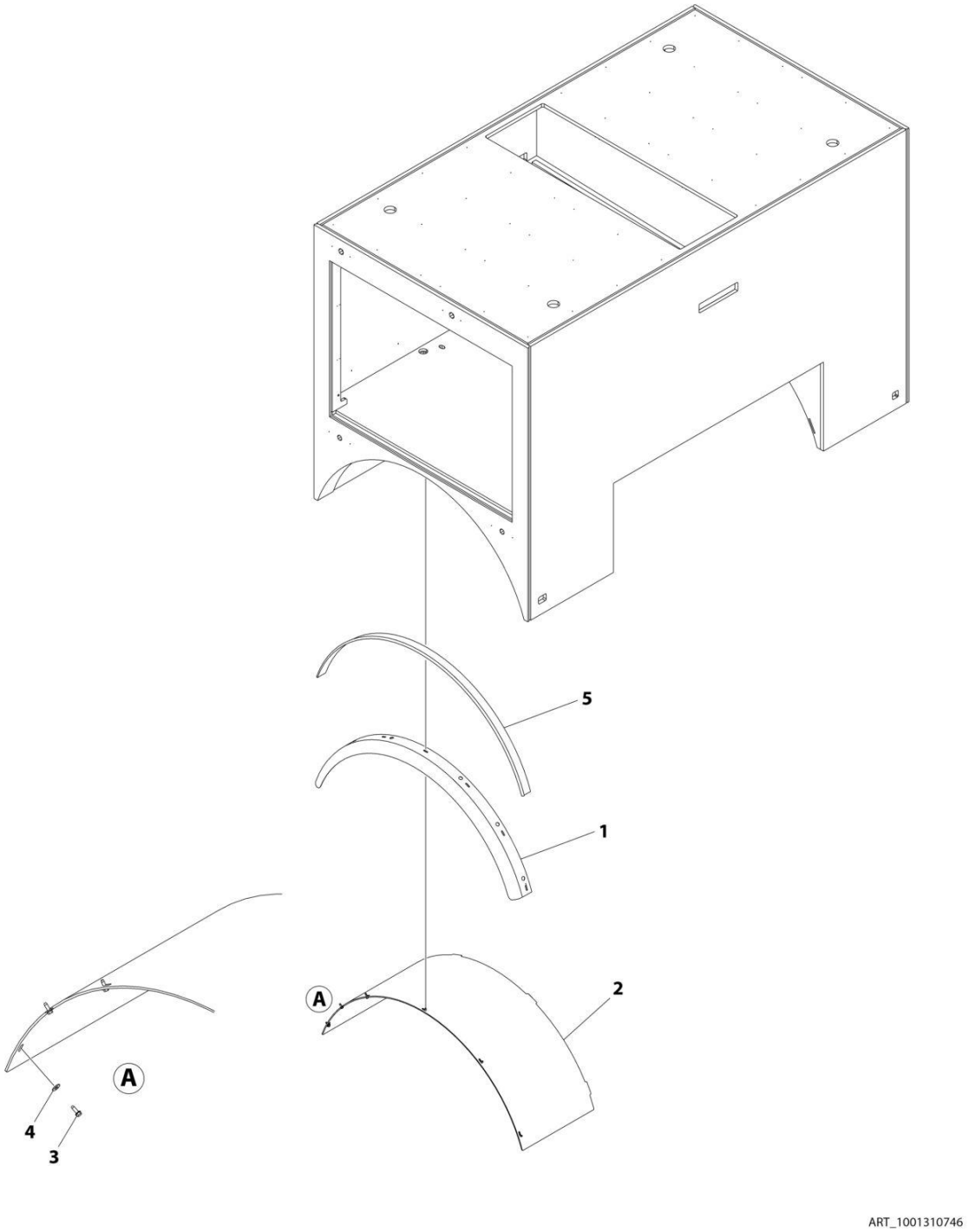


FIGURE 4-23. FENDER FLARE AND LINER INSTALLATION - 56IN TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001310746	Ref	FENDER FLARE AND LINER INSTALLATION	A
1	1001193553	2	Fender	
2	1001310747	2	Liner	
3	7790141251	24	Screw 1/4 x 3/4	
4	7950140163	24	Washer 1/4	
5	1001253744	12 ft	Welting, Fender	

FIGURE 4-24. GRAB HANDLE INSTALLATION

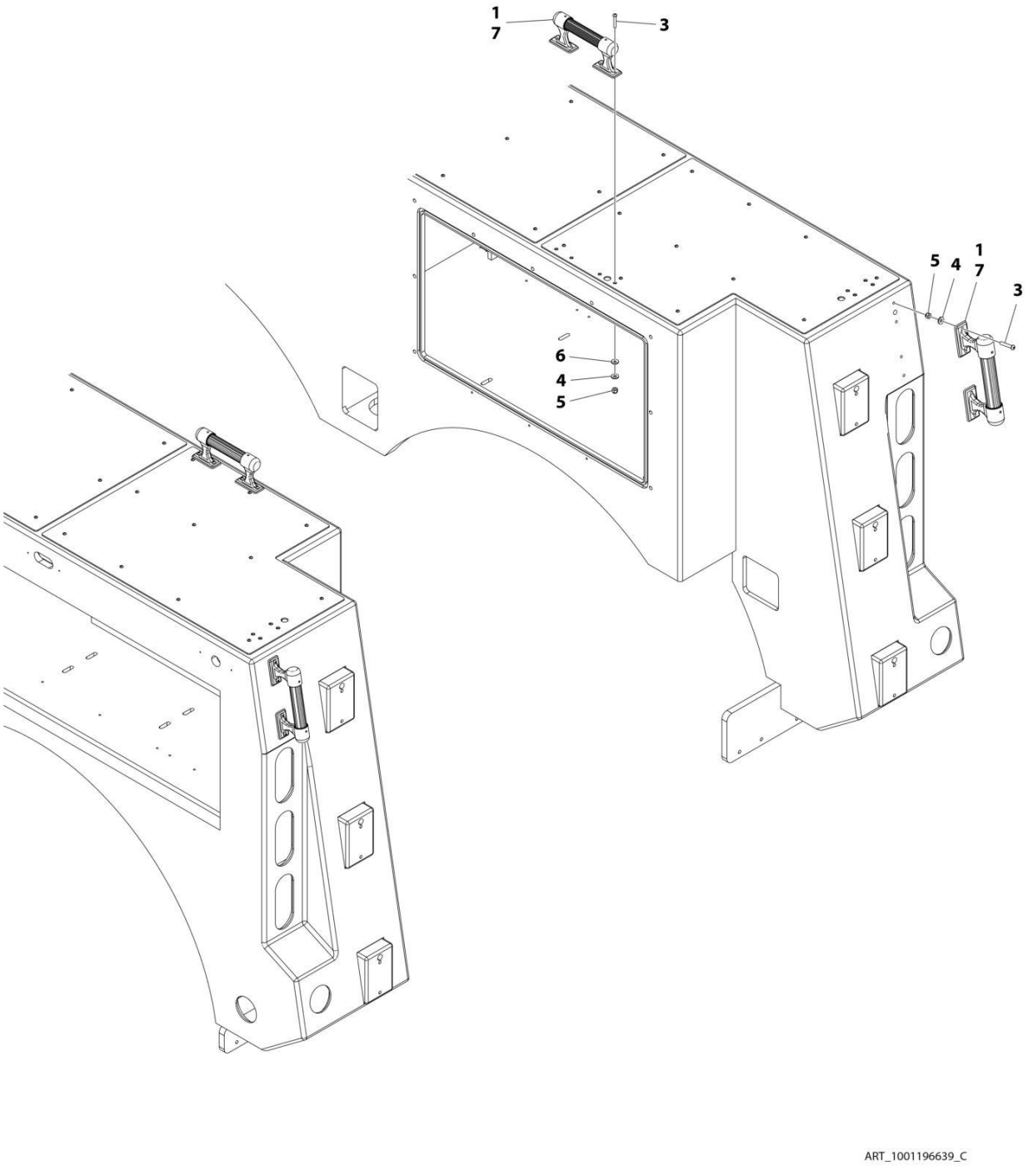


FIGURE 4-24. GRAB HANDLE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196639	Ref	Grab Handle Installation	C
1	1001170849	4	Grab Handle	
3	7114141218	16	Capscrew 1/4 x 1-1/2	
4	7660142600	16	Nut 1/4	
5	7950140143	16	Washer 1/2	
6	1001166978	8	Washer, Rubber 1/4	
7	8798820001	AR	Sealant	

FIGURE 4-25. MUD FLAP INSTALLATION

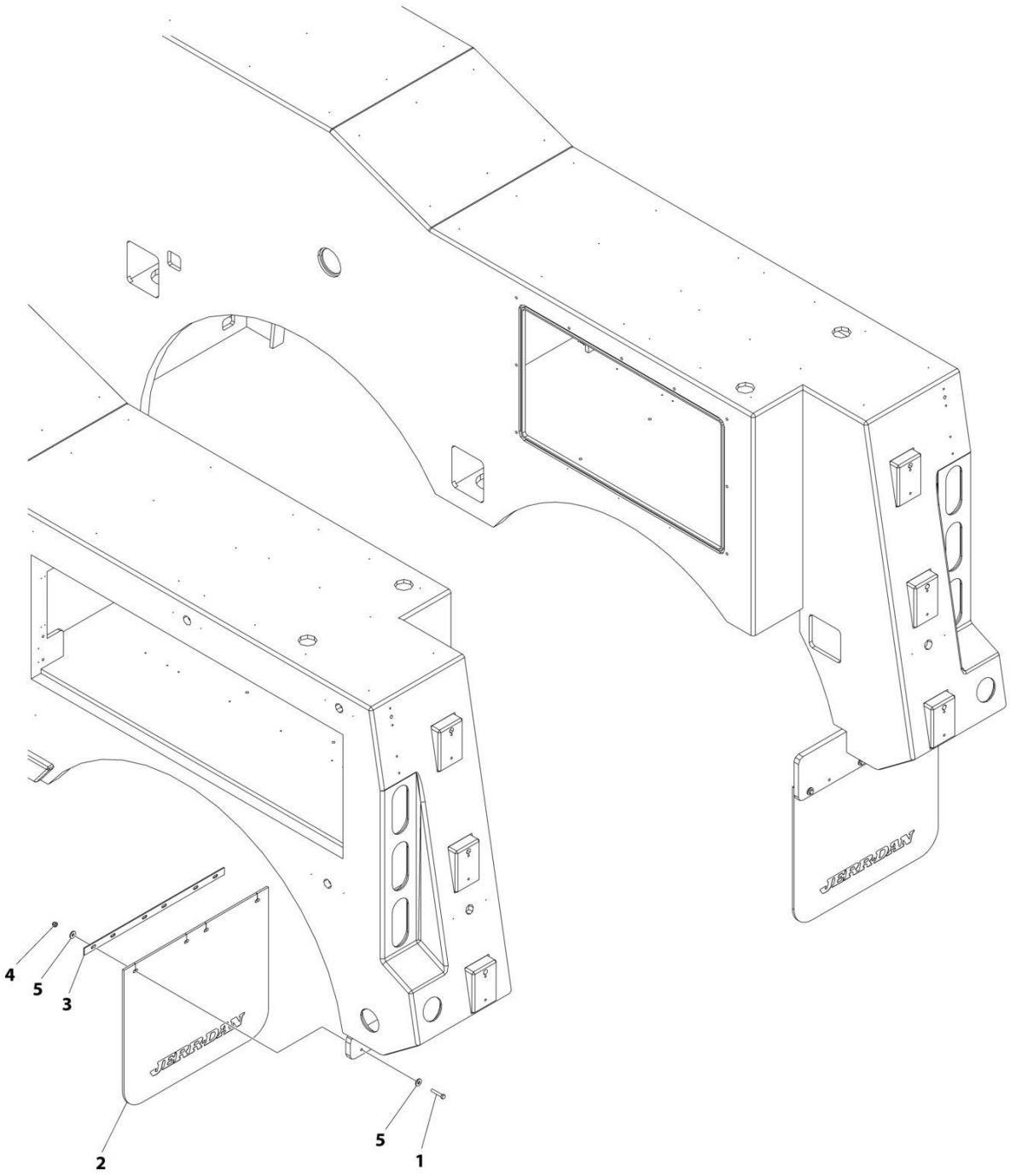


FIGURE 4-25. MUD FLAP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196790	Ref	MUD FLAP INSTALLATION	C
1	0641514	8	Bolt 5/16 x 1-3/4	
2	1001174051	2	Mud Flap	
3	4706001815	2	Plate	
4	7660152601	8	Nut 5/16	
5	7950150153	16	Washer 5/16	

FIGURE 4-26. NO FRONT DIAMOND, MARKER ONLY

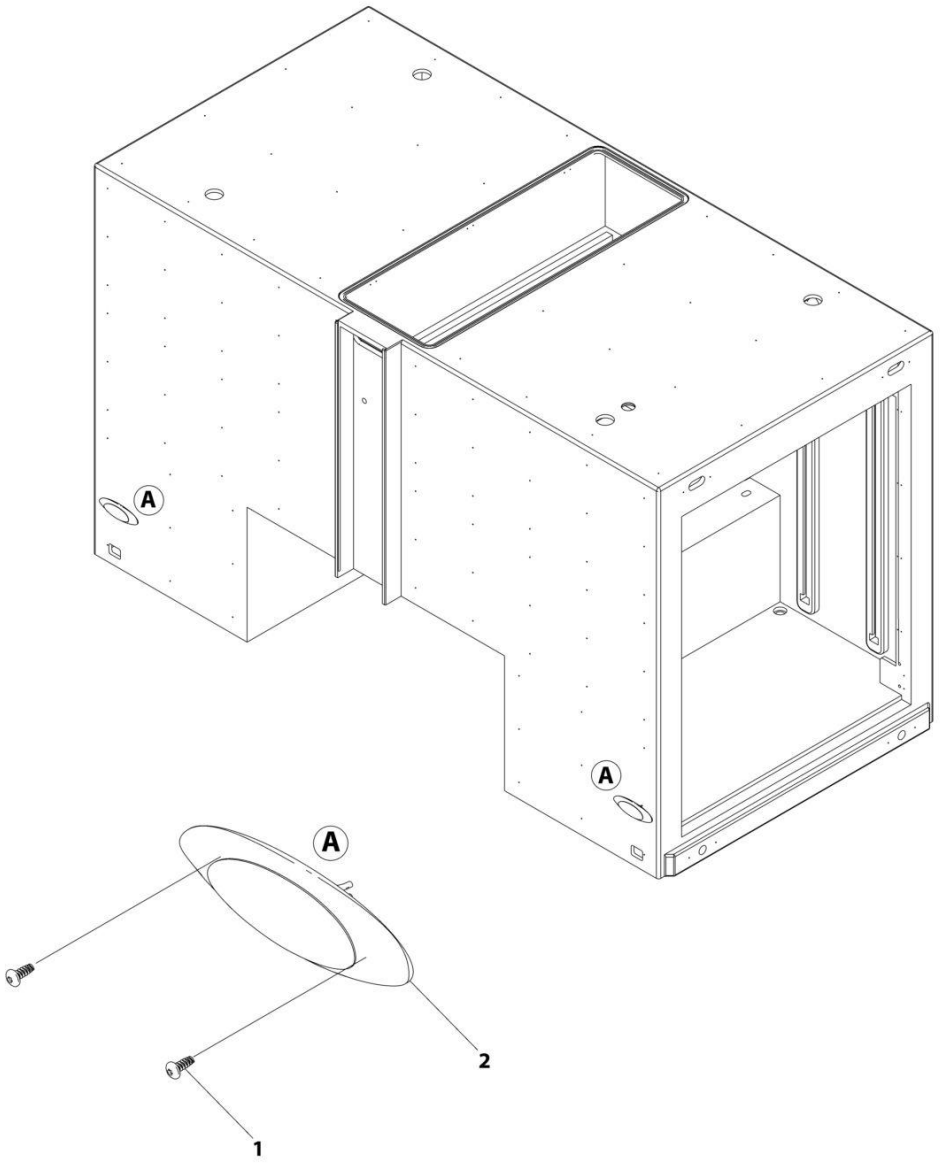


FIGURE 4-26. NO FRONT DIAMOND, MARKER ONLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219785	Ref	NO FRONT DIAMOND, MARKER ONLY	E
1	1001192958	4	Screw #10 x 1/2	
2	7590000358	2	Light	

FIGURE 4-27. PIN STORAGE OUTRIGGERS INSTALLATION

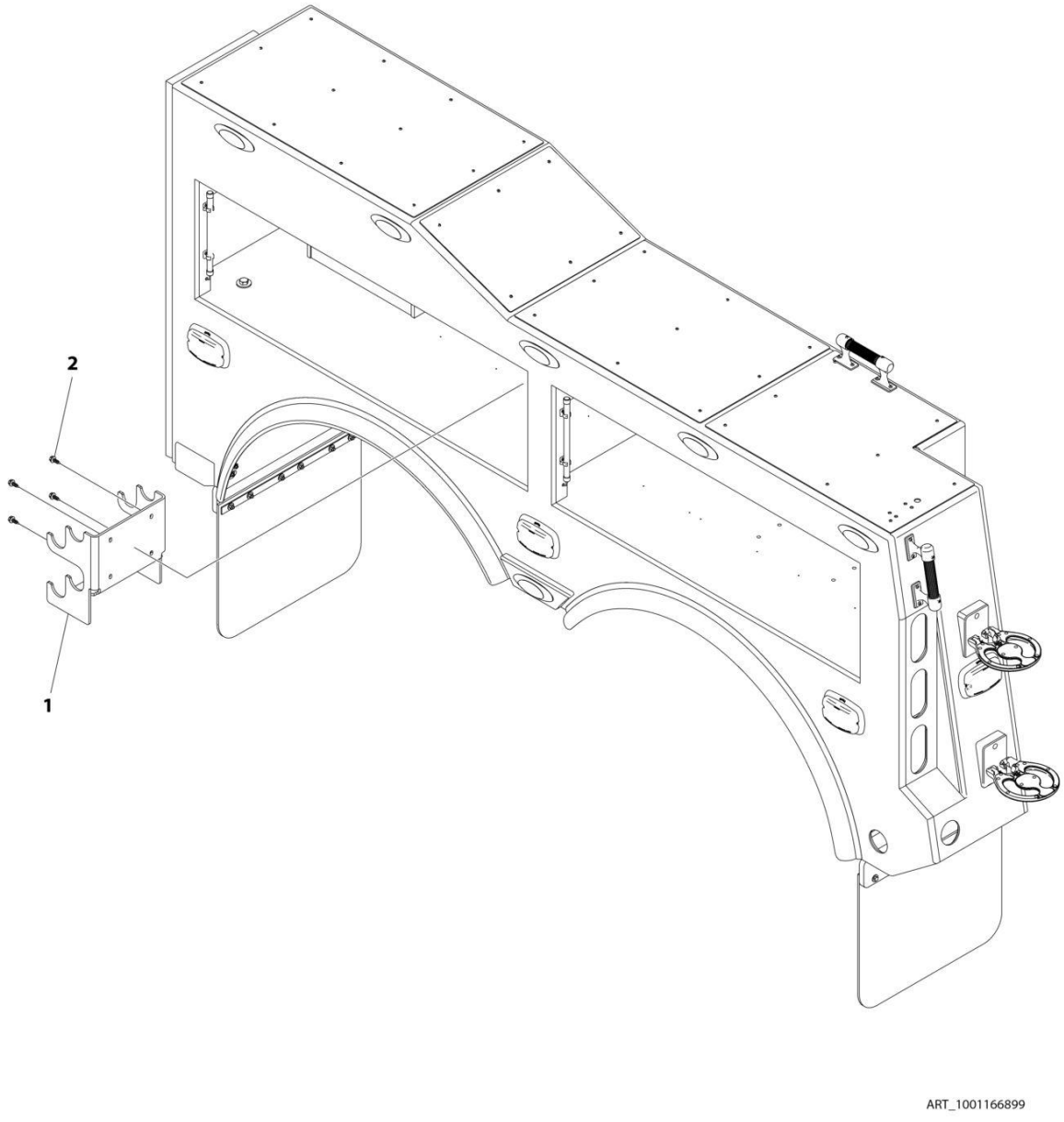


FIGURE 4-27. PIN STORAGE OUTRIGGERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166899	Ref	Pin Storage Outriggers Installation	B
1	1001180725	2	Bracket	
2	1001141265	8	Screw #14 x 3/4	

FIGURE 4-28. RUBRAIL ROTATOR INSTALLATION - WITHOUT AXLE

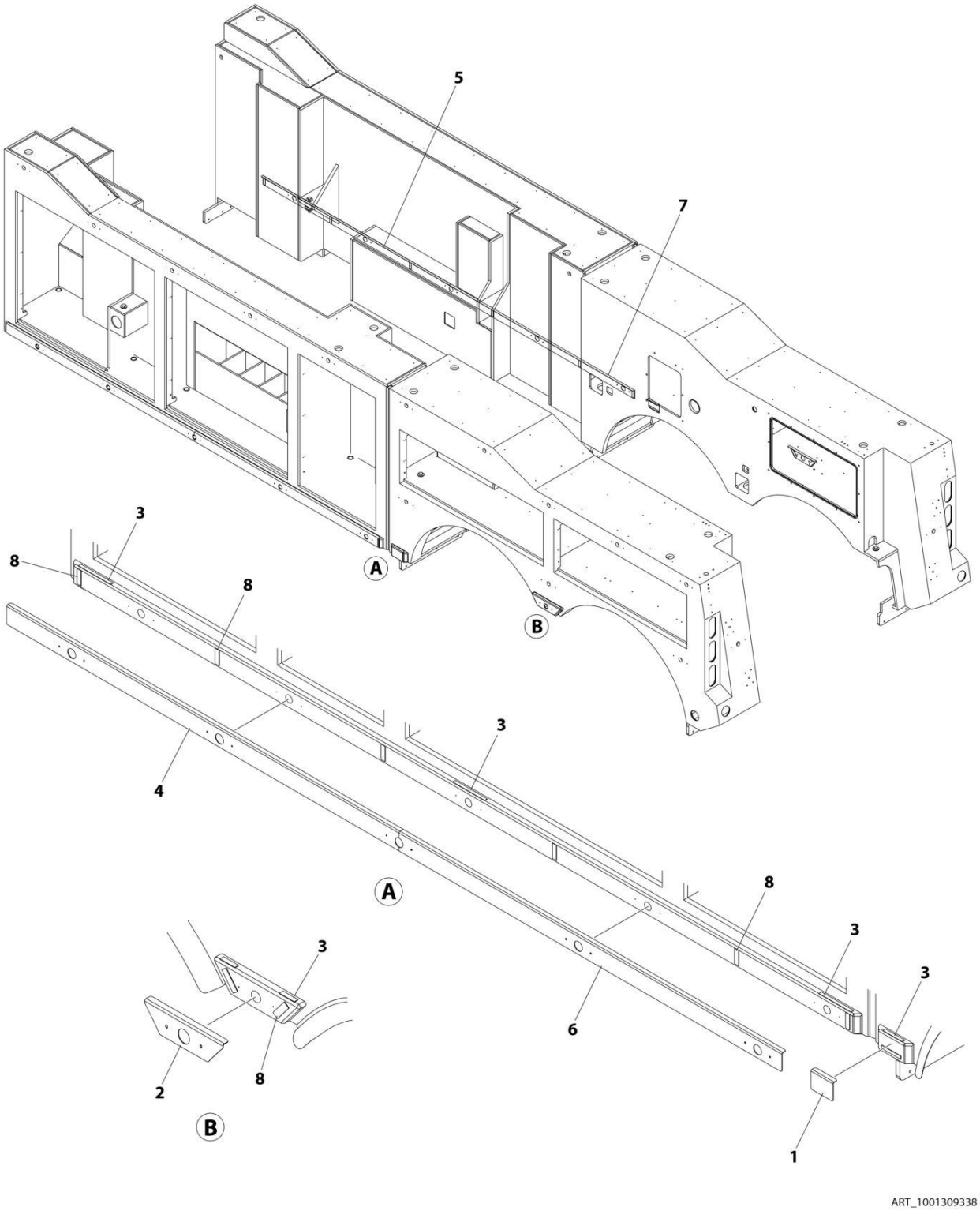


FIGURE 4-28. RUBRAIL ROTATOR INSTALLATION - WITHOUT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001309338	Ref	RUBRAIL INSTALLATION	A
1	1001230965	2	Angle, Rear Body RR Trim Front	
2	1001230966	2	Angle, Rear Body RR Trim Tdm	
3	1001230987	5 ft	Tape	
4	1001309331	1	Angle, Mid Body RR Trim LH Front	
5	1001309332	1	Angle, Mid Body RR Trim RH Front	
6	1001309333	1	Angle, Mid Body RR Trim LH Rear	
7	1001309334	1	Angle, Mid Body RR Trim RH Rear	
8	7796000012	3.5 ft	Seal	

FIGURE 4-29. RUBRAIL ROTATOR INSTALLATION - WITH AXLE

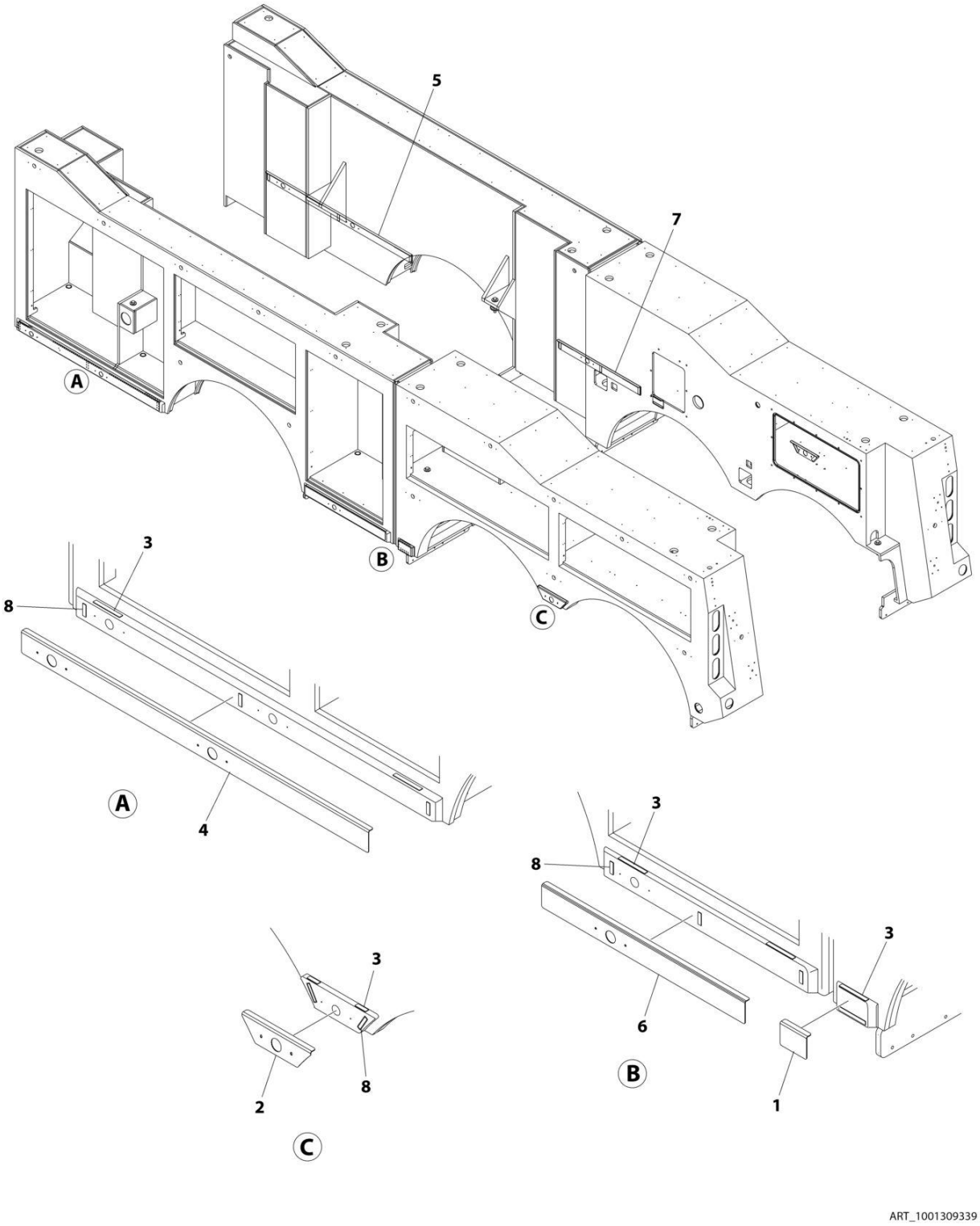


FIGURE 4-29. RUBRAIL ROTATOR INSTALLATION - WITH AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001309339	Ref	RUBRAIL INSTALLATION	A
1	1001230965	2	Angle, Rear Body RR Trim Front	
2	1001230966	2	Angle, Rear Body RR Trim Tdm	
3	1001230987	6 ft	Tape	
4	1001309335	1	Angle, Mid Body RR Trim LH Front	
5	1001309336	1	Angle, Mid Body RR Trim RH Front	
6	1001309337	1	Angle, Mid Body RR Trim LH Rear	
7	1001309418	1	Angle, Mid Body RR Trim RH Rear	
8	7796000012	3.5 ft	Seal	

FIGURE 4-30. RUBRAIL TRIM INSTALLATION (36IN TUNNEL)

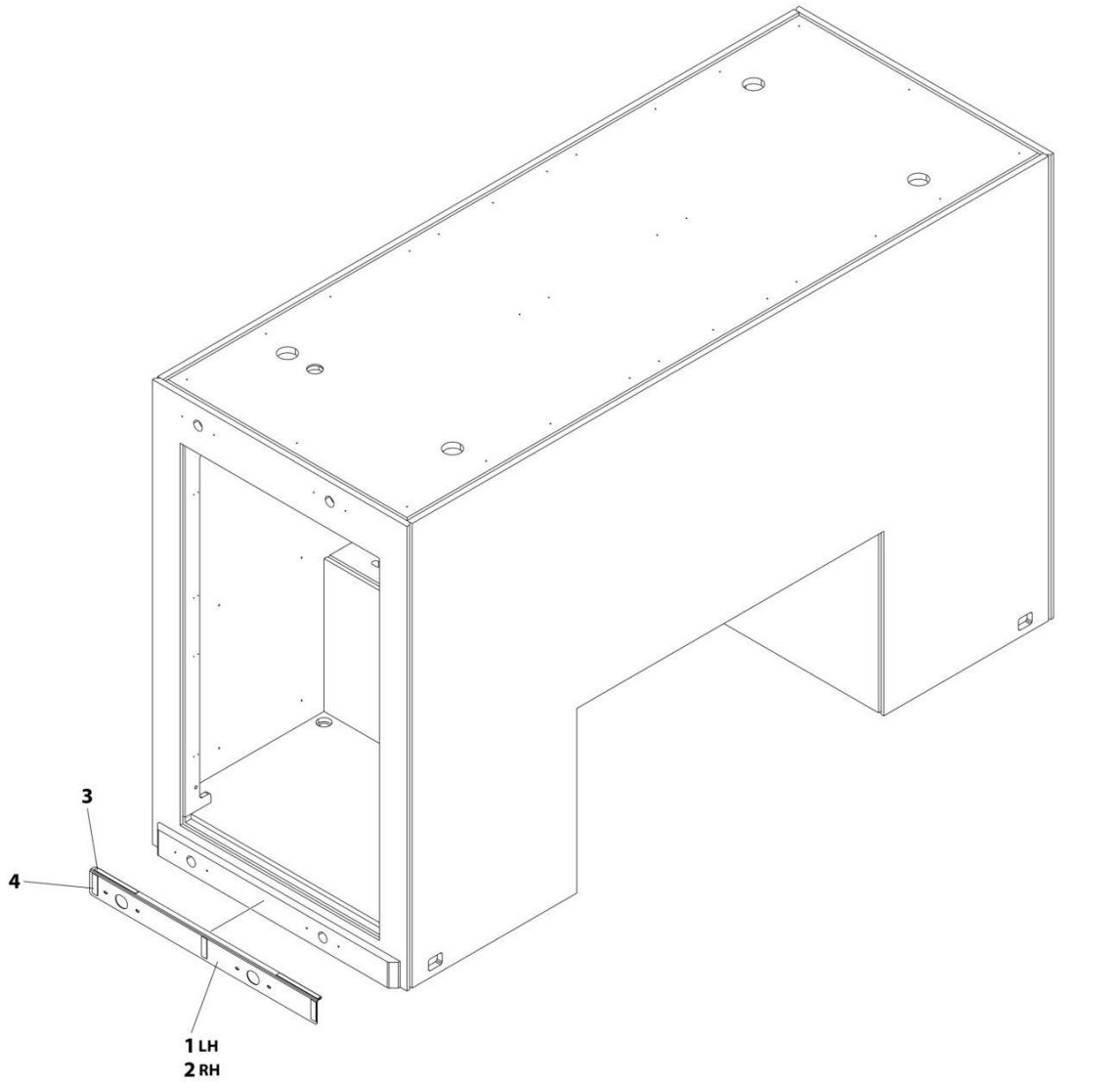


FIGURE 4-30. RUBRAIL TRIM INSTALLATION (36IN TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001283561	Ref	RUBRAIL TRIM 38IN TUNNEL INSTALLATION	A
1	1001283566	1	Angle	
2	1001283567	1	Angle	
3	1001230987	2 ft	Tape	
4	7796000012	1.3 ft	Seal	

FIGURE 4-31. RUBRAIL TRIM INSTALLATION (50IN TUNNEL)

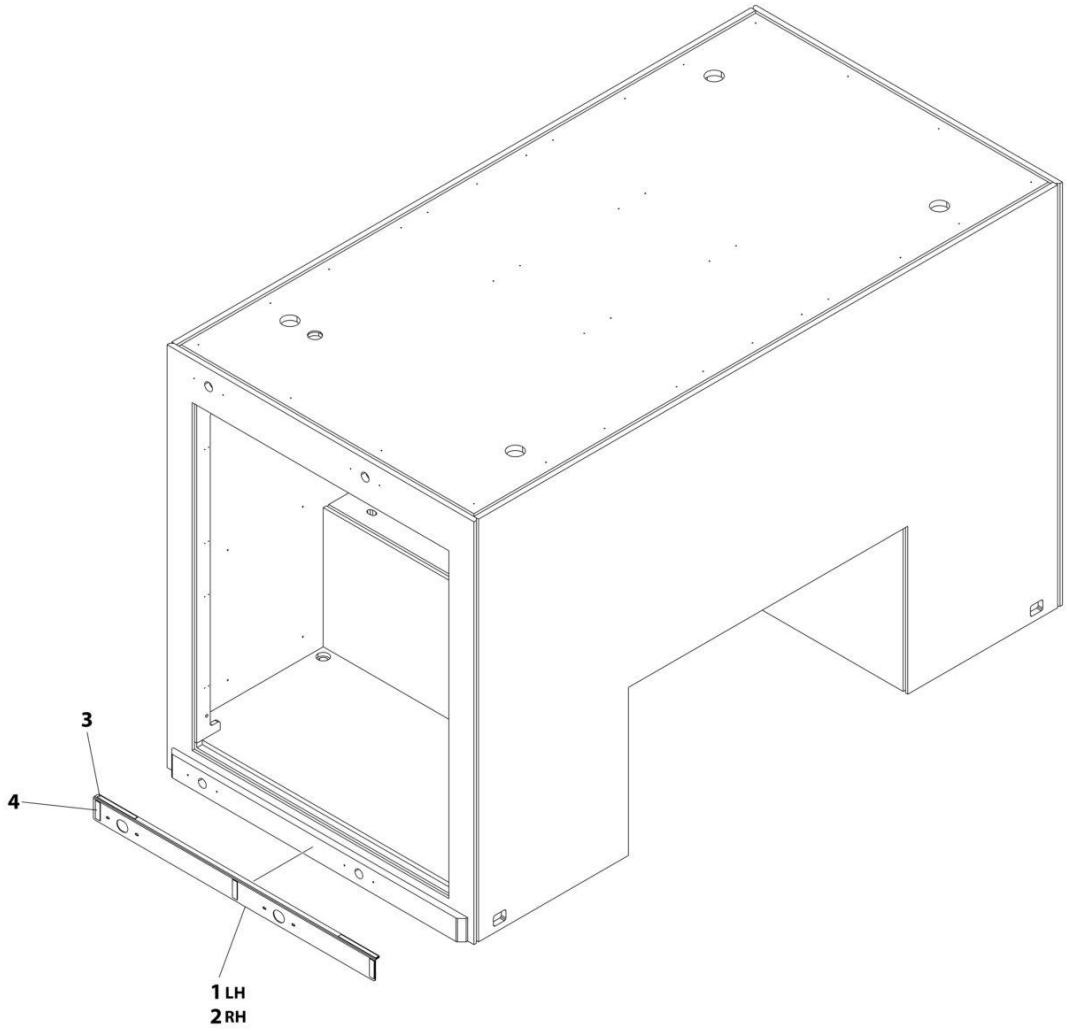


FIGURE 4-31. RUBRAIL TRIM INSTALLATION (50IN TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001283560	Ref	RUBRAIL TRIM 50IN TUNNEL INSTALLATION	A
1	1001283564	1	Angle	
2	1001283565	1	Angle	
3	1001230987	2 ft	Tape	
4	7796000012	1.3 ft	Seal	

FIGURE 4-32. STEP INSTALLATION

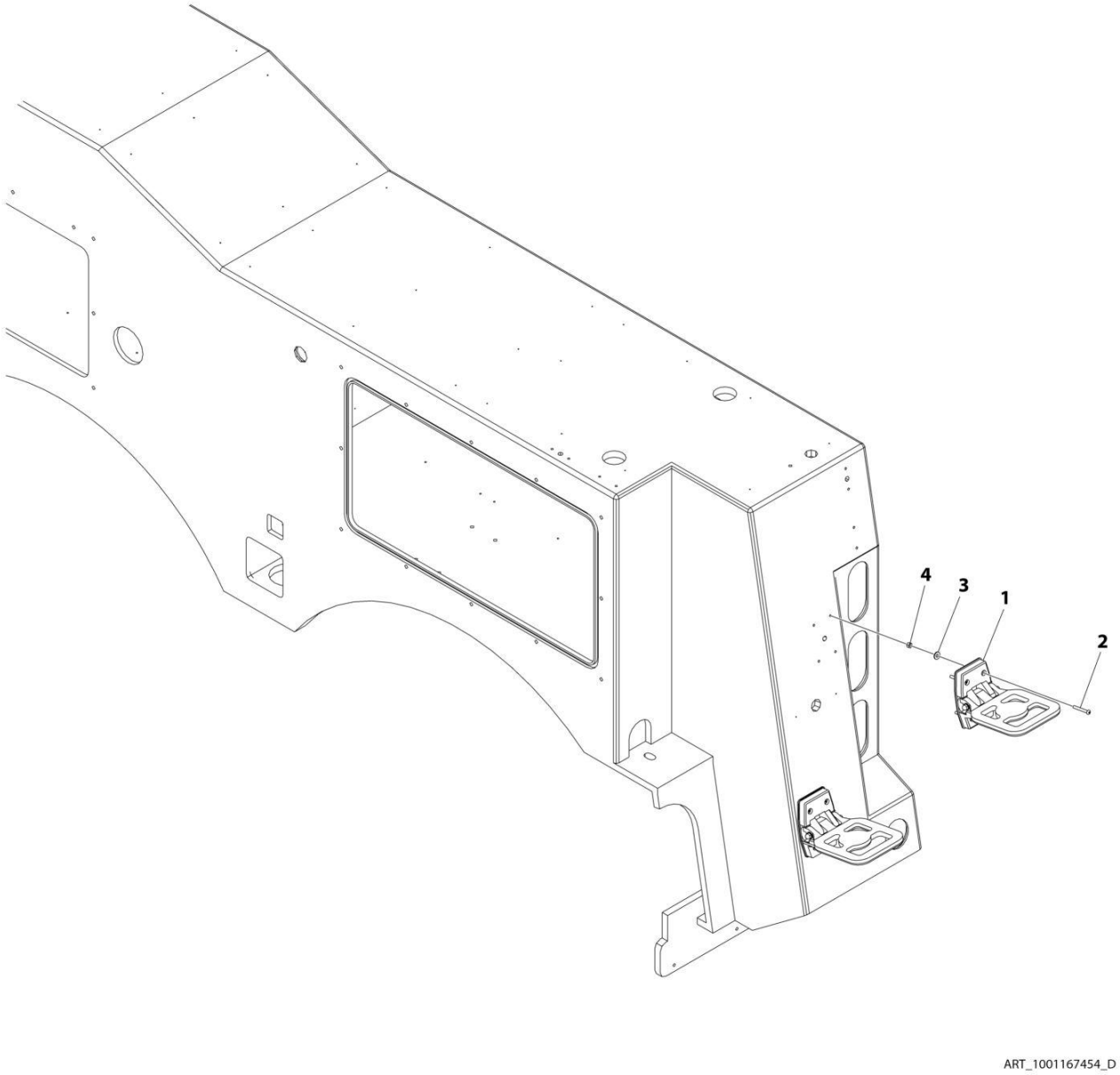


FIGURE 4-32. STEP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167454	Ref	STEP INSTALLATION	D
1	1001285503	4	Step	
2	7114141618	16	Screw 1/4 x 2	
3	4751400	16	Washer 1/4	
4	7660142601	16	Nut 1/4	

FIGURE 4-33. TOOLBOX INSTALLATION - UNDERBODY

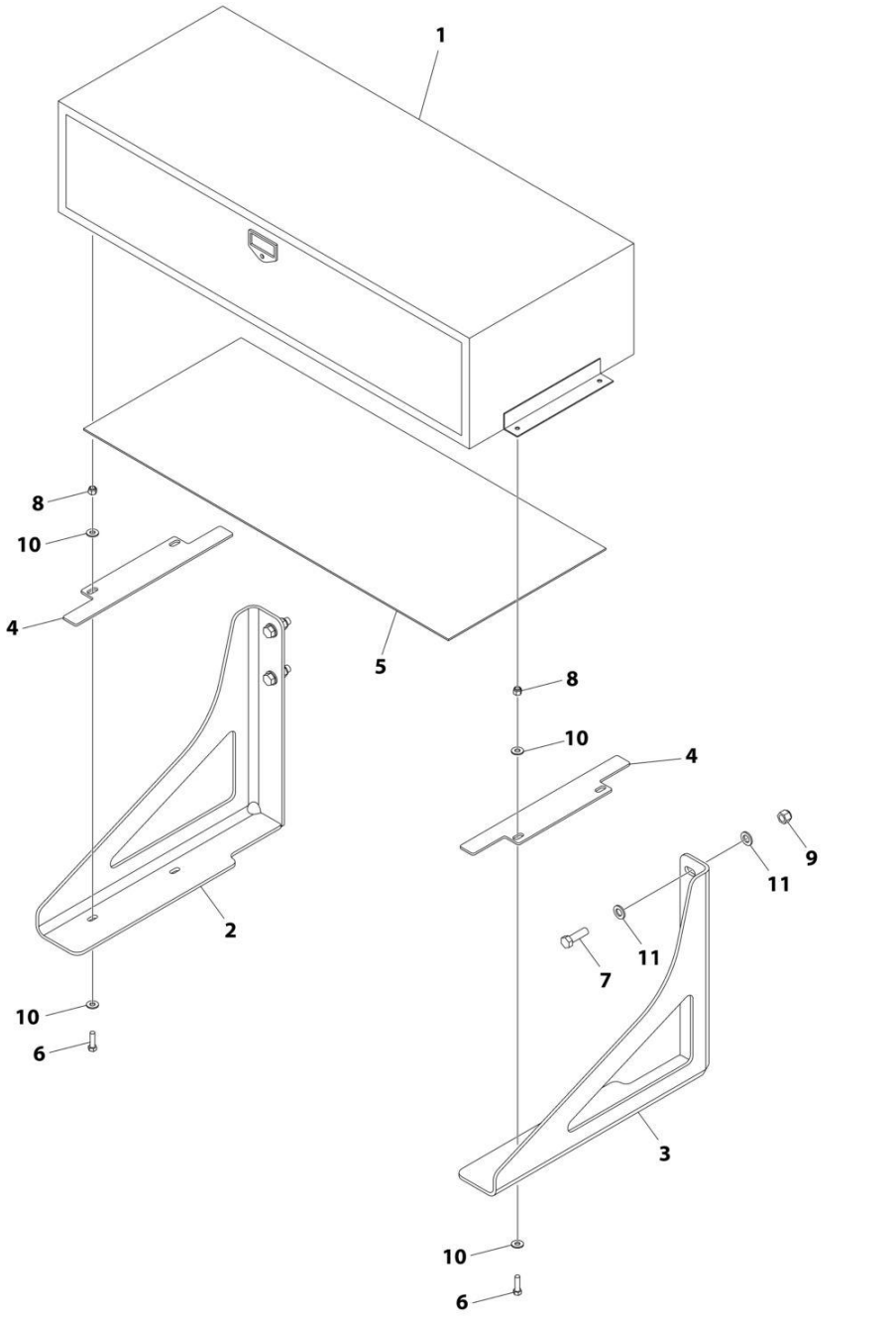


FIGURE 4-33. TOOLBOX INSTALLATION - UNDERBODY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222149	Ref	TOOLBOX INSTALLATION - UNDERBODY	A
1	1001223748	2	Box, Tool	
2	1001223749	2	Bracket	
3	1001223750	2	Bracket	
4	1001225967	4	Seal	
5	1001225981	2	Pad	
6	7115181450	8	Bolt 1/2 x 1-3/4	
7	7115222050	8	Bolt 3/4 x 2-1/2	
8	7660182601	8	Nut 1/2	
9	7660222601	8	Nut 3/4	
10	7950180150	16	Washer 1/2	
11	7950220141	16	Washer 3/4	

FIGURE 4-34. TUNNEL INSTALLATION - 38IN (TALL)

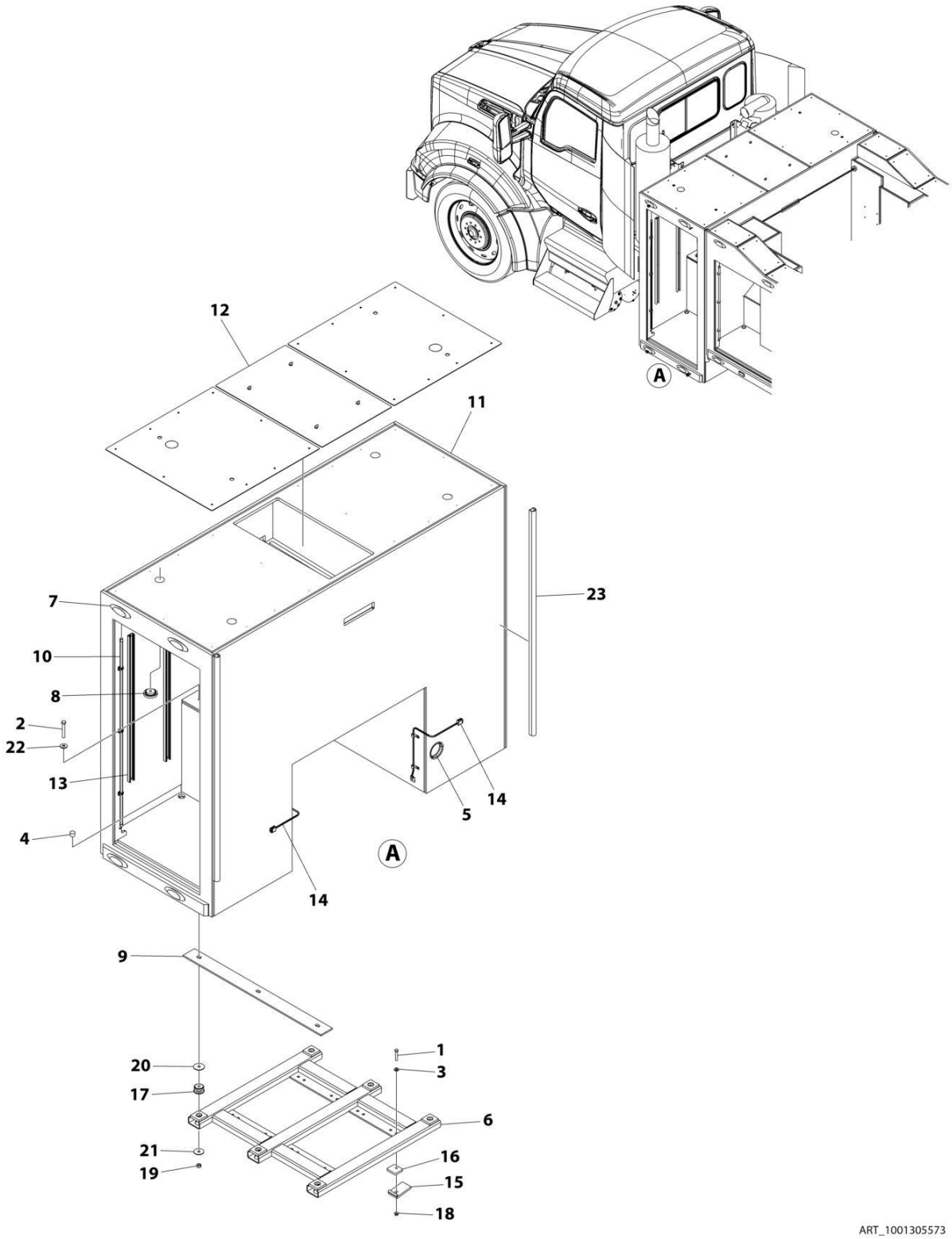


FIGURE 4-34. TUNNEL INSTALLATION - 38IN (TALL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305573	Ref	TUNNEL INSTALLATION - 38IN ROTATOR	A
1	0641822	8	Bolt 1/2 x 2-3/4	
2	0642034	6	Bolt 5/8 x 4-1/4	
3	4891800	8	Washer 1/2	
4	1001173847	4	Plug	
5	1001177203	1	Plug	
6	1001187063	1	Mount, Tunnel	
7	1001196625	Ref	Marker Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
8	1001196808	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
9	1001197338	2	Support, Tunnel	
10	1001306159	Ref	Compartment Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
11	1001305575	1	Box, Tunnel	
12	1001305953	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
13	1001306069	Ref	T-Slots Installation (See Separate Breakdown in this Section)	
14	1001306277	Ref	Harness Installation (See Separate Breakdown in ELECTRICAL Section)	
15	3274000011	8	Clamp	
16	4705000705	8	Plate	
17	7636000008	6	Mount	
18	7660182301	8	Nut 1/2 Grd 8	
19	7660200001	6	Nut 5/8	
20	7949000019	6	Washer	
21	7949000020	6	Washer	
22	7950200161	6	Washer 5/8	
23	8632000011	11 ft	Seal	

FIGURE 4-35. TUNNEL INSTALLATION - 38IN (SHORT)

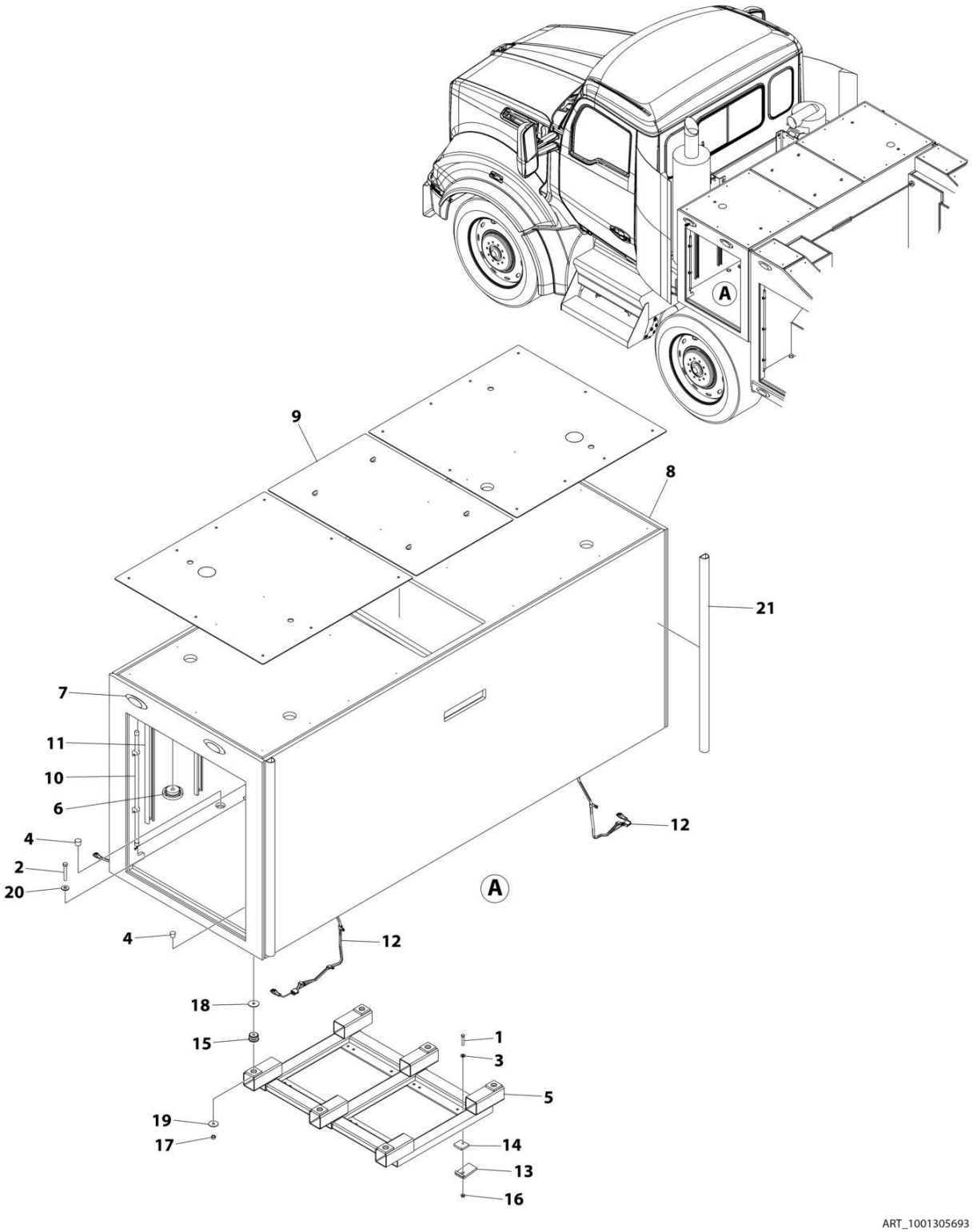


FIGURE 4-35. TUNNEL INSTALLATION - 38IN (SHORT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305693	Ref	TUNNEL INSTALLATION - 38IN ROTATOR	A
1	0641822	8	Bolt 1/2 x 2-3/4	
2	0642040	6	Bolt 5/8 x 5	
3	4891800	8	Washer 1/2	
4	1001173847	4	Plug	
5	1001182562	1	Support, Tunnel	
6	1001196808	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
7	1001294089	Ref	Marker Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
8	1001305692	1	Box, Tunnel	
9	1001305953	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
10	1001307022	Ref	Compartment Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
11	1001307166	Ref	T-Slots Installation (See Separate Breakdown in this Section)	
12	1001307543	Ref	Harness Installation (See Separate Breakdown in ELECTRICAL Section)	
13	3274000011	8	Clamp	
14	4705000705	8	Plate	
15	7636000008	6	Mount	
16	7660182301	8	Nut 1/2 Grd 8	
17	7660200001	6	Nut 5/8	
18	7949000019	6	Washer	
19	7949000020	6	Washer	
20	7950200161	6	Washer 5/8	
21	8632000011	7 ft	Seal	

FIGURE 4-36. TUNNEL INSTALLATION - 50IN (TALL)

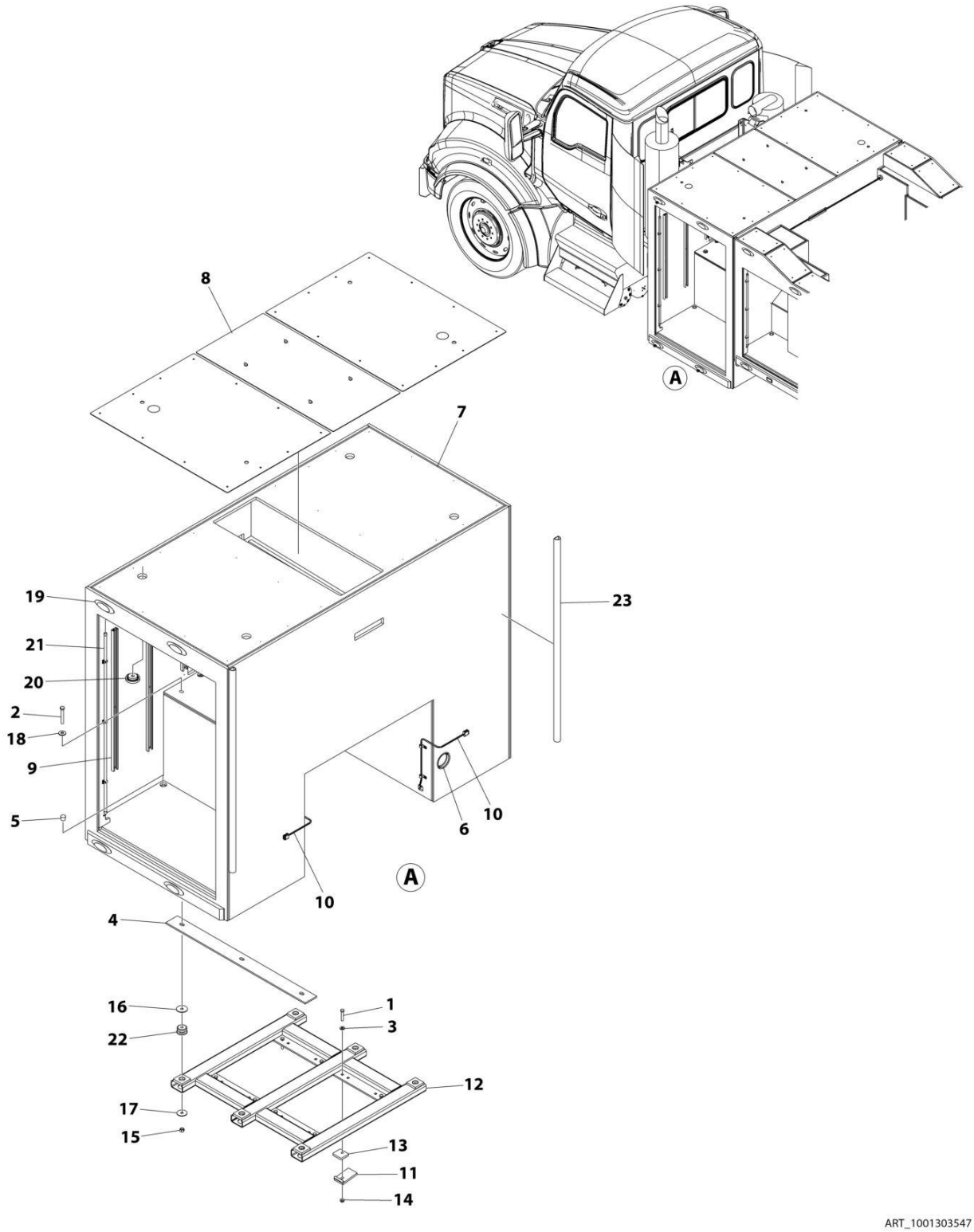


FIGURE 4-36. TUNNEL INSTALLATION - 50IN (TALL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303547	Ref	TUNNEL INSTALLATION - 50IN TALL	A
1	0641822	8	Bolt 1/2 x 2-3/4	
2	0642034	6	Bolt 5/8 x 4-1/4	
3	4891800	8	Washer 1/2	
4	1001165692	2	Support, Tunnel	
5	1001173847	4	Plug	
6	1001177203	1	Plug	
7	1001305857	1	Box, Tunnel	
8	1001305952	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
9	1001306069	Ref	T-Slots Installation (See Separate Breakdown in this Section)	
10	1001306277	Ref	Harness Installation (See Separate Breakdown in ELECTRICAL Section)	
11	3274000011	8	Clamp	
12	3911000068	1	TBX Mount, Tool Box	
13	4705000705	8	Plate	
14	7660182301	8	Nut 1/2 Grd 8	
15	7660200001	6	Nut 5/8	
16	7949000019	6	Washer	
17	7949000020	6	Washer	
18	7950200161	6	Washer 5/8	
19	1001196625	Ref	Marker Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
20	1001196808	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
21	1001306159	Ref	Compartment Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
22	7636000008	6	Mount	
23	8632000011	11 ft	Seal	

FIGURE 4-37. TUNNEL INSTALLATION - 50IN (SHORT)

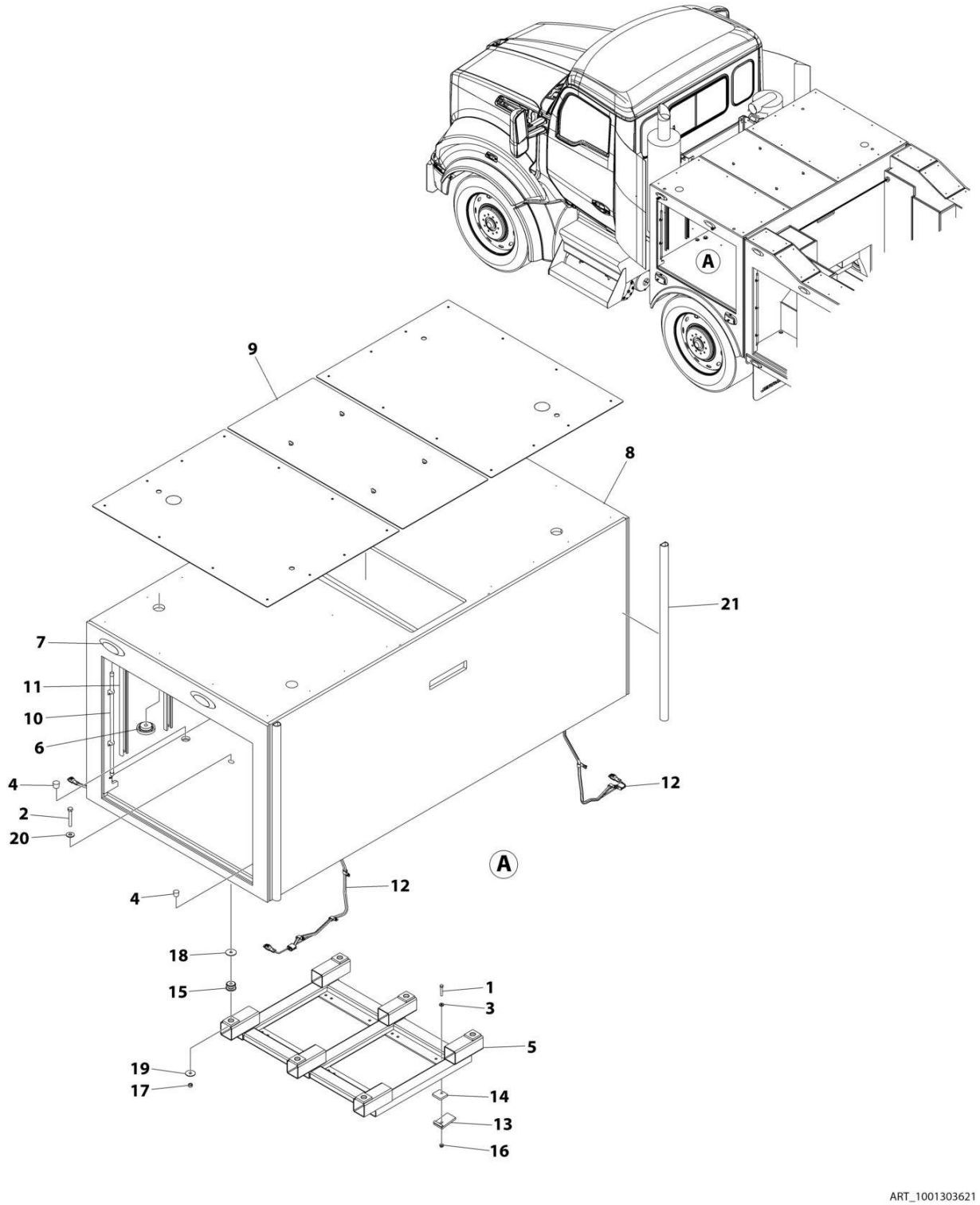


FIGURE 4-37. TUNNEL INSTALLATION - 50IN (SHORT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001303621	Ref	TUNNEL INSTALLATION - 50IN SHORT	A
1	0641822	8	Bolt 1/2 x 2-3/4	
2	0642040	6	Bolt 5/8 x 5	
3	4891800	8	Washer 1/2	
4	1001173847	4	Plug	
5	1001182562	1	Support, Tunnel	
6	1001196808	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
7	1001294089	Ref	Marker Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
8	1001305864	1	Box, Tunnel	
9	1001305952	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
10	1001307022	Ref	Compartment Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
11	1001307166	Ref	T-Slots Installation (See Separate Breakdown in this Section)	
12	1001307543	Ref	Harness Installation (See Separate Breakdown in ELECTRICAL Section)	
13	3274000011	8	Clamp	
14	4705000705	8	Plate	
15	7636000008	6	Mount	
16	7660182301	8	Nut 1/2 Grd 8	
17	7660200001	6	Nut 5/8	
18	7949000019	6	Washer	
19	7949000020	6	Washer	
20	7950200161	6	Washer 5/8	
21	8632000011	7 ft	Seal	

FIGURE 4-38. TUNNEL INSTALLATION - 56IN (TDM STEER)

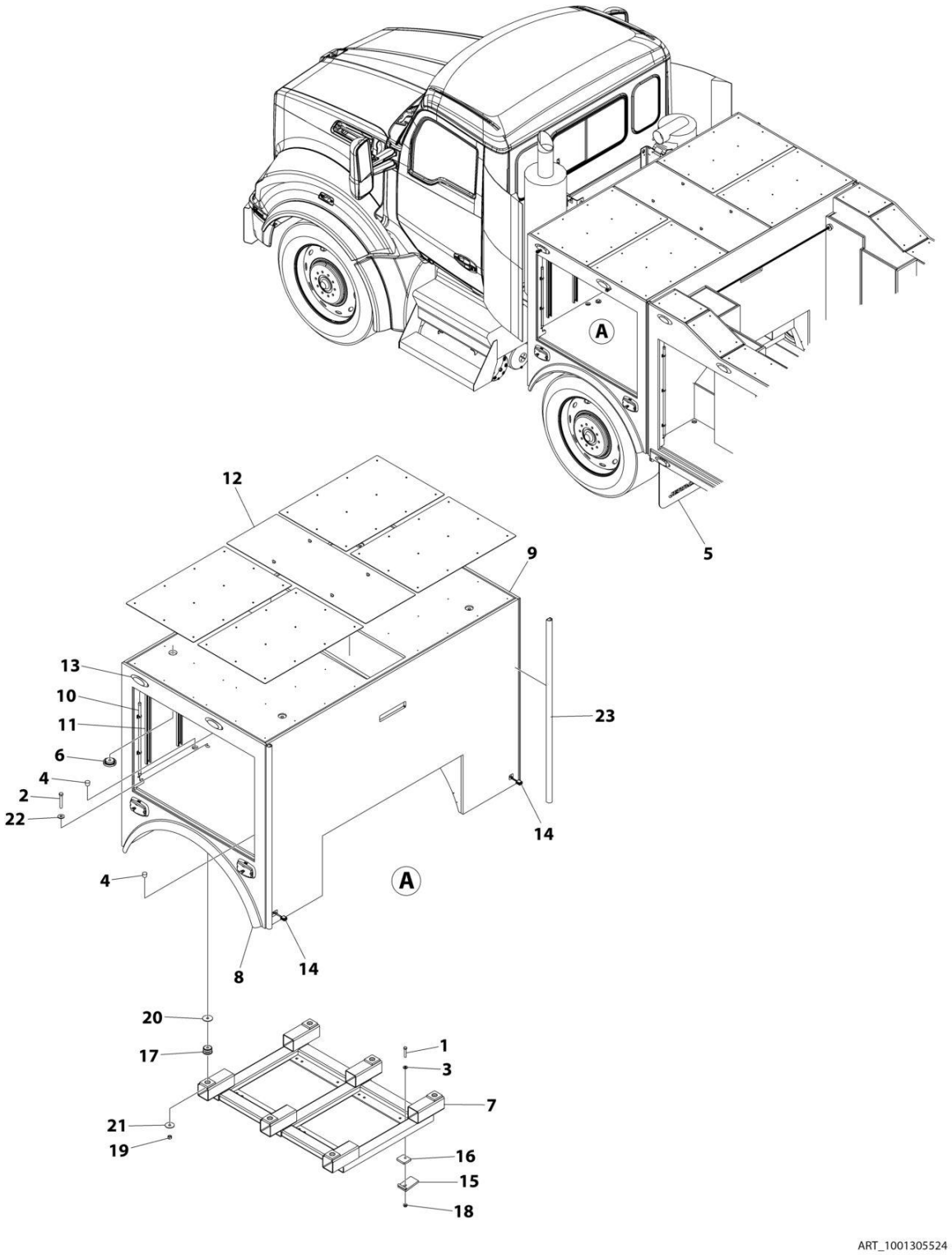


FIGURE 4-38. TUNNEL INSTALLATION - 56IN (TDM STEER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305524	Ref	TUNNEL INSTALLATION - 56IN TDM STEER	A
1	0641822	8	Bolt 1/2 x 2-3/4	
2	0642034	6	Bolt 5/8 x 4-1/4	
3	4891800	8	Washer 1/2	
4	1001173847	4	Plug	
5	1001196790	Ref	Mud Flap Installation (See Separate Breakdown in this Section)	
6	1001196808	Ref	Lifting Lugs Installation (See Separate Breakdown in this Section)	
7	1001228634	1	Mount, Tunnel	
8	1001310746	Ref	Fender Flare and Liner Installation (See Separate Breakdown in this Section)	
9	1001306626	1	Box, Tunnel	
10	1001307022	Ref	Compartment Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
11	1001307166	Ref	T-Slots Installation (See Separate Breakdown in this Section)	
12	1001307167	Ref	Diamond Plate Installation (See Separate Breakdown in this Section)	
13	1001307297	Ref	Marker Lights Installation (See Separate Breakdown in ELECTRICAL Section)	
14	1001307298	Ref	Harness Installation (See Separate Breakdown in ELECTRICAL Section)	
15	3274000011	8	Clamp	
16	4705000705	8	Plate	
17	7636000008	6	Mount	
18	7660182301	8	Nut 1/2 Grd 8	
19	7660200001	6	Nut 5/8	
20	7949000019	6	Washer	
21	7949000020	6	Washer	
22	7950200161	6	Washer 5/8	
23	8632000011	20 ft	Seal	

FIGURE 4-39. T-SLOTS INSTALLATION - TALL TUNNEL

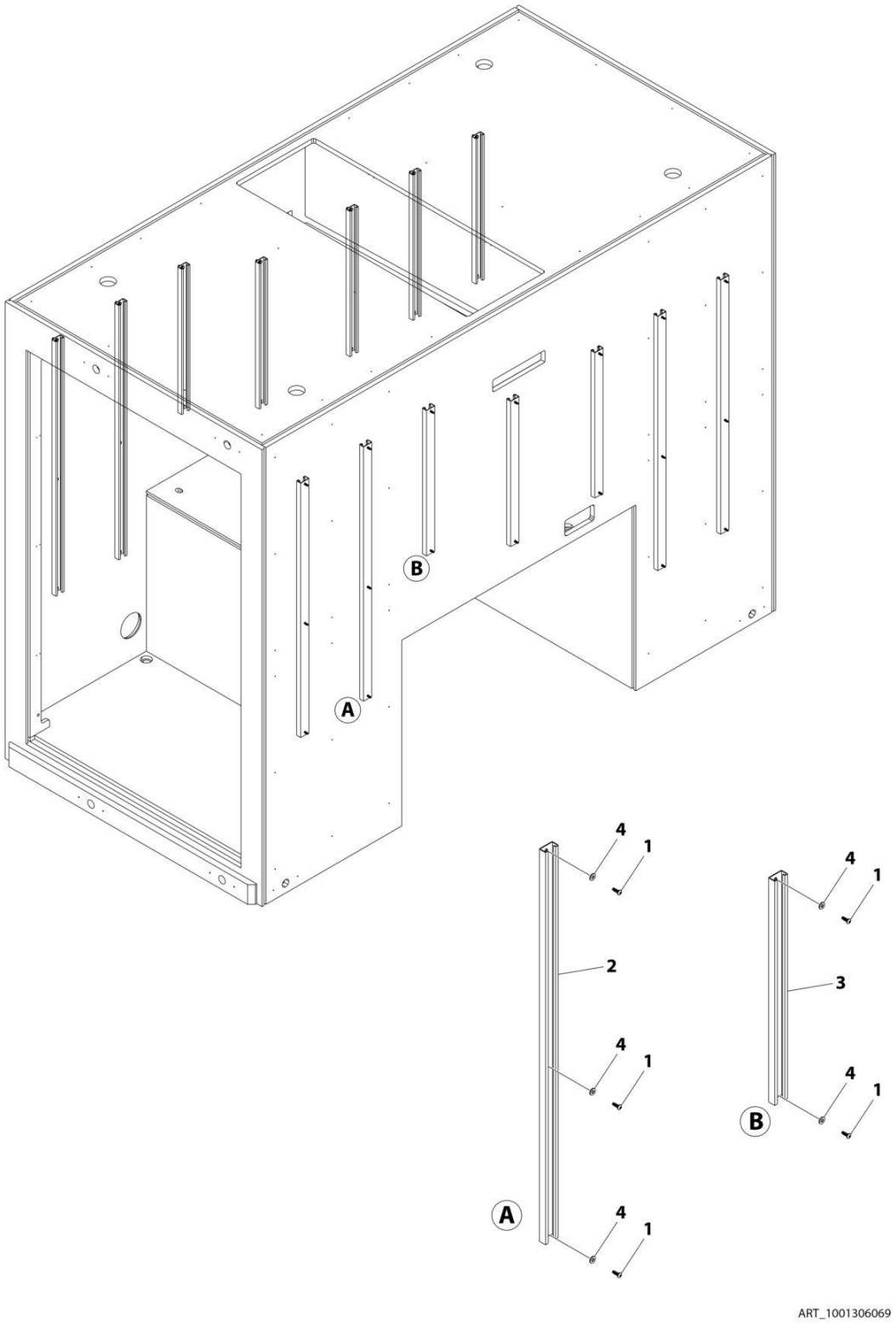


FIGURE 4-39. T-SLOTS INSTALLATION - TALL TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306069	Ref	T-SLOTS INSTALLATION	A
1	1001194676	34	Screw 1/4 x 3/4	
2	1001277611	8	Channel, T-Slot	
3	1001277612	6	Channel, T-Slot	
4	7950140141	34	Washer 1/4	

FIGURE 4-40. T-SLOTS INSTALLATION - SHORT TUNNEL & 56IN TUNNEL

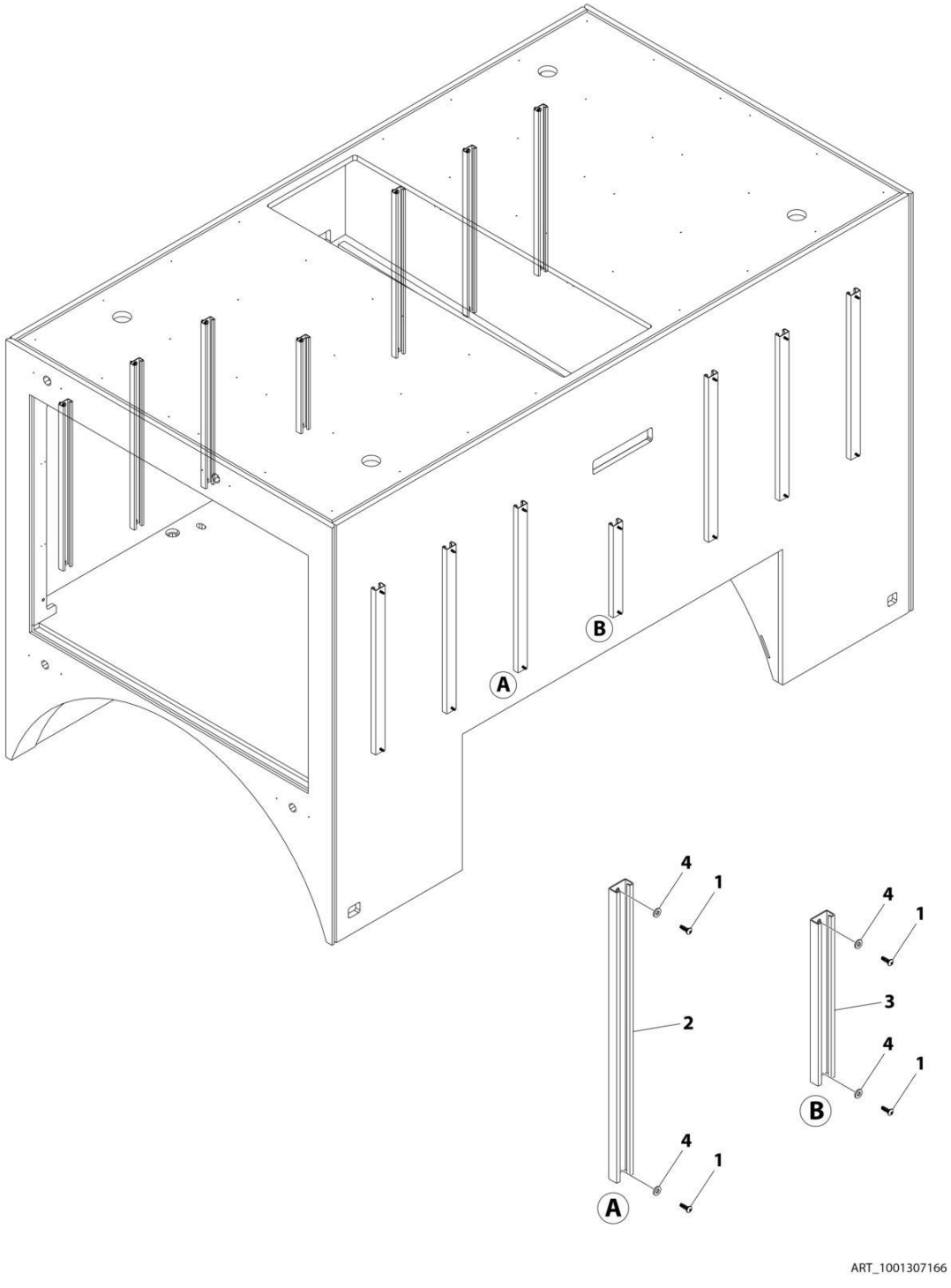


FIGURE 4-40. T-SLOTS INSTALLATION - SHORT TUNNEL & 56IN TUNNEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307166	Ref	T-SLOTS INSTALLATION	A
1	1001194676	28	Screw 1/4 x 3/4	
2	1001277611	12	Channel, T-Slot	
3	1001279673	2	Channel, T-Slot	
4	7950140141	28	Washer 1/4	

FIGURE 4-41. STORAGE - CHAIN RACK INSTALLATION (50IN)

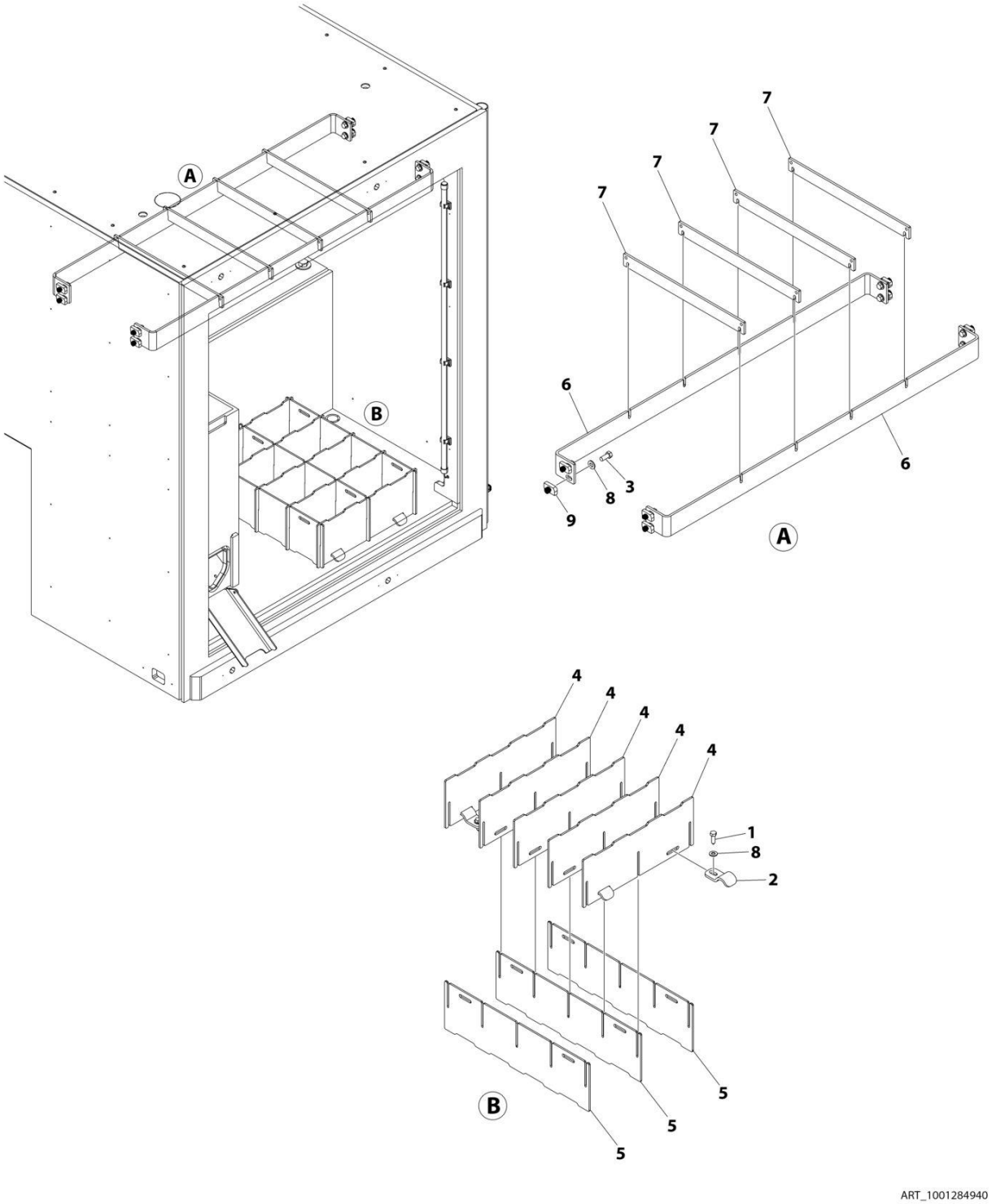


FIGURE 4-41. STORAGE - CHAIN RACK INSTALLATION (50IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284940	Ref	CHAIN RACK (50IN)	B
1	1001168545	4	Capscrew 3/8 x 1-1/4	
2	1001175596	4	Clamp	
3	1001210454	8	Bolt 3/8 x 7/8	
4	1001282692	5	Plate, Chain Pocket	
5	1001282693	3	Plate, Chain Pocket	
6	1001284944	2	Bar, Chain Rack	
7	1001284948	4	Bar, Chain Rack	
8	7950160143	12	Washer 3/8	
9	1001166644	8	Spring Nut 3/8	

FIGURE 4-42. STORAGE - CHAIN RACK INSTALLATION (38IN)

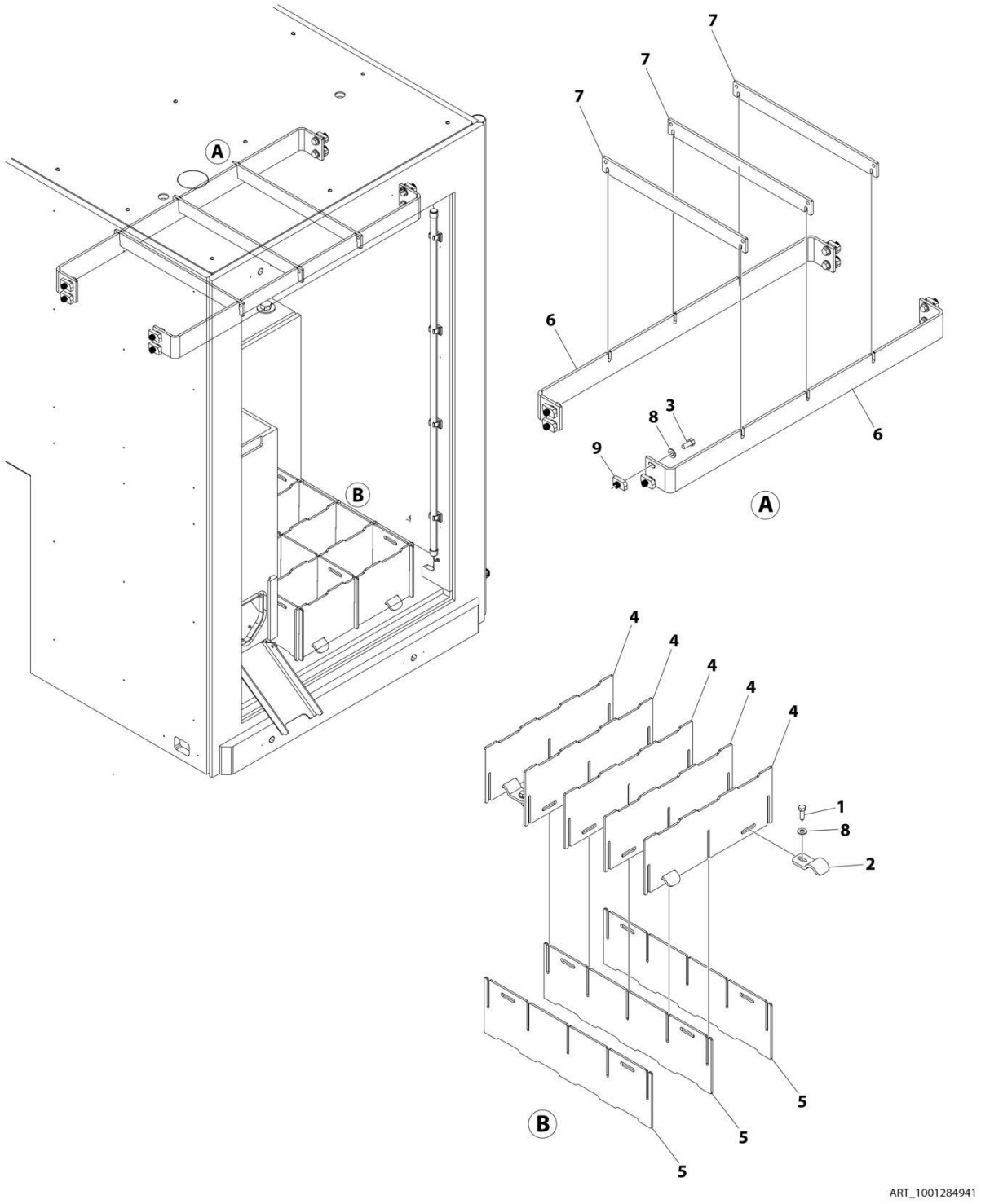


FIGURE 4-42. STORAGE - CHAIN RACK INSTALLATION (38IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284941	Ref	CHAIN RACK (38IN)	B
1	1001168545	4	Capscrew 3/8 x 1-1/4	
2	1001175596	4	Clamp	
3	1001210454	8	Bolt 3/8 x 7/8	
4	1001282692	5	Plate, Chain Pocket	
5	1001282693	3	Plate, Chain Pocket	
6	1001284945	2	Bar, Chain Rack	
7	1001284948	3	Bar, Chain Rack	
8	7950160143	12	Washer 3/8	
9	1001166644	8	Spring Nut 3/8	

FIGURE 4-43. STORAGE - DRAWER INSTALLATION - TILT DOWN 51IN

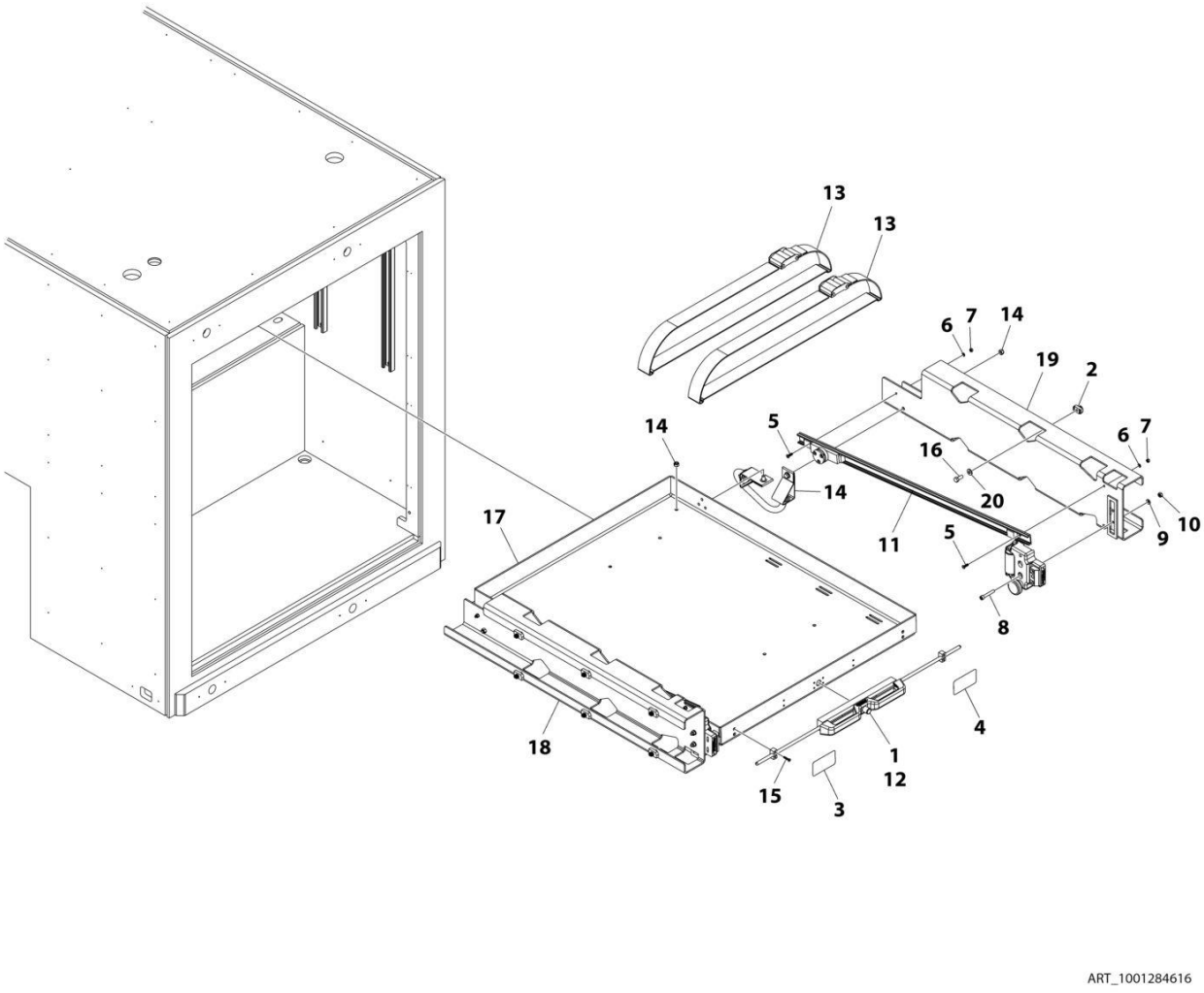


FIGURE 4-43. STORAGE - DRAWER INSTALLATION - TILT DOWN 51IN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284616	Ref	DRAWER INSTALLATION - TILT DOWN (50IN)	B
1	3020029	AR	Lubricant	
2	1001166644	12	Spring Nut 3/8	
3	1001170090	1	Decal, Warning	
4	1001170091	1	Decal, Capacity	
5	1001170305	4	Bolt	
6	1001170307	4	Washer M6	
7	1001170310	4	Nut M6	
8	1001170328	4	Screw	
9	1001170329	4	Washer M8	
10	1001170330	4	Nut M8	
11	1001170331	1	Roller Assembly	
12	1001170332	1	Handle and Latch Assembly	
13	1001170428	2	Strap	
14	1001179349	2	Strap	
15	1001200997	4	Screw M5 x 25	
16	1001210454	12	Bolt 3/8 x 7/8	
17	1001284619	1	Tray, Tilt-Down	
18	1001284622	1	Bracket, LH	
19	1001284623	1	Bracket, RH	
20	7950160143	12	Washer 3/8	

FIGURE 4-44. STORAGE - DRAWER INSTALLATION - TILT DOWN 38IN

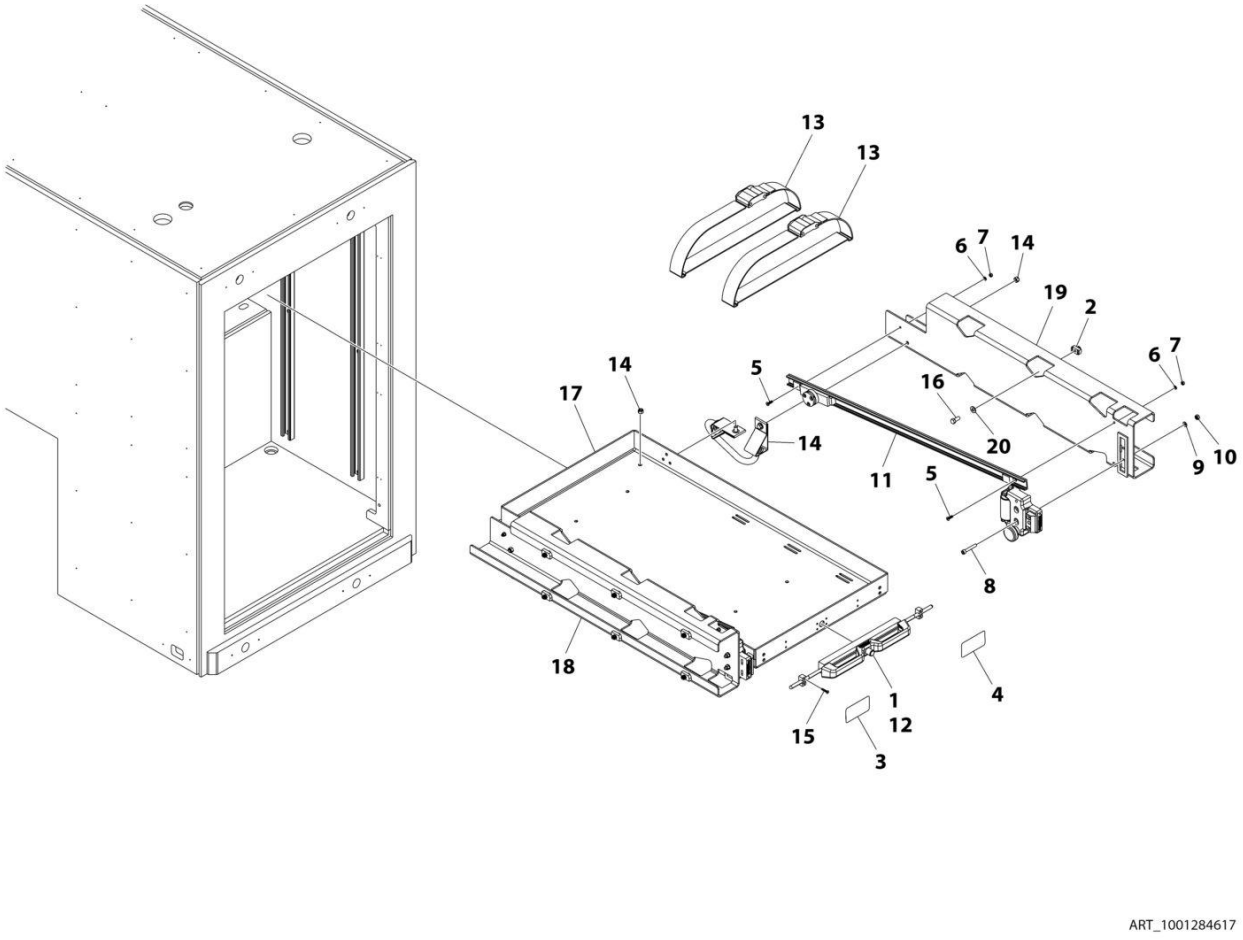


FIGURE 4-44. STORAGE - DRAWER INSTALLATION - TILT DOWN 38IN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284617	Ref	DRAWER INSTALLATION - TILT DOWN (38IN)	B
1	3020029	AR	Lubricant	
2	1001166644	12	Spring Nut 3/8	
3	1001170090	1	Decal, Warning	
4	1001170091	1	Decal, Capacity	
5	1001170305	4	Bolt	
6	1001170307	4	Washer M6	
7	1001170310	4	Nut M6	
8	1001170328	4	Screw	
9	1001170329	4	Washer M8	
10	1001170330	4	Nut M8	
11	1001170331	1	Roller Assembly	
12	1001170332	1	Handle and Latch Assembly	
13	1001170428	2	Strap	
14	1001179349	2	Strap	
15	1001200997	4	Screw M5 x 25	
16	1001210454	12	Bolt 3/8 x 7/8	
17	1001284620	1	Tray, Tilt-Down	
18	1001284622	1	Bracket, LH	
19	1001284623	1	Bracket, RH	
20	7950160143	12	Washer 3/8	

FIGURE 4-45. STORAGE - DRAWER INSTALLATION - TILT DOWN 56IN

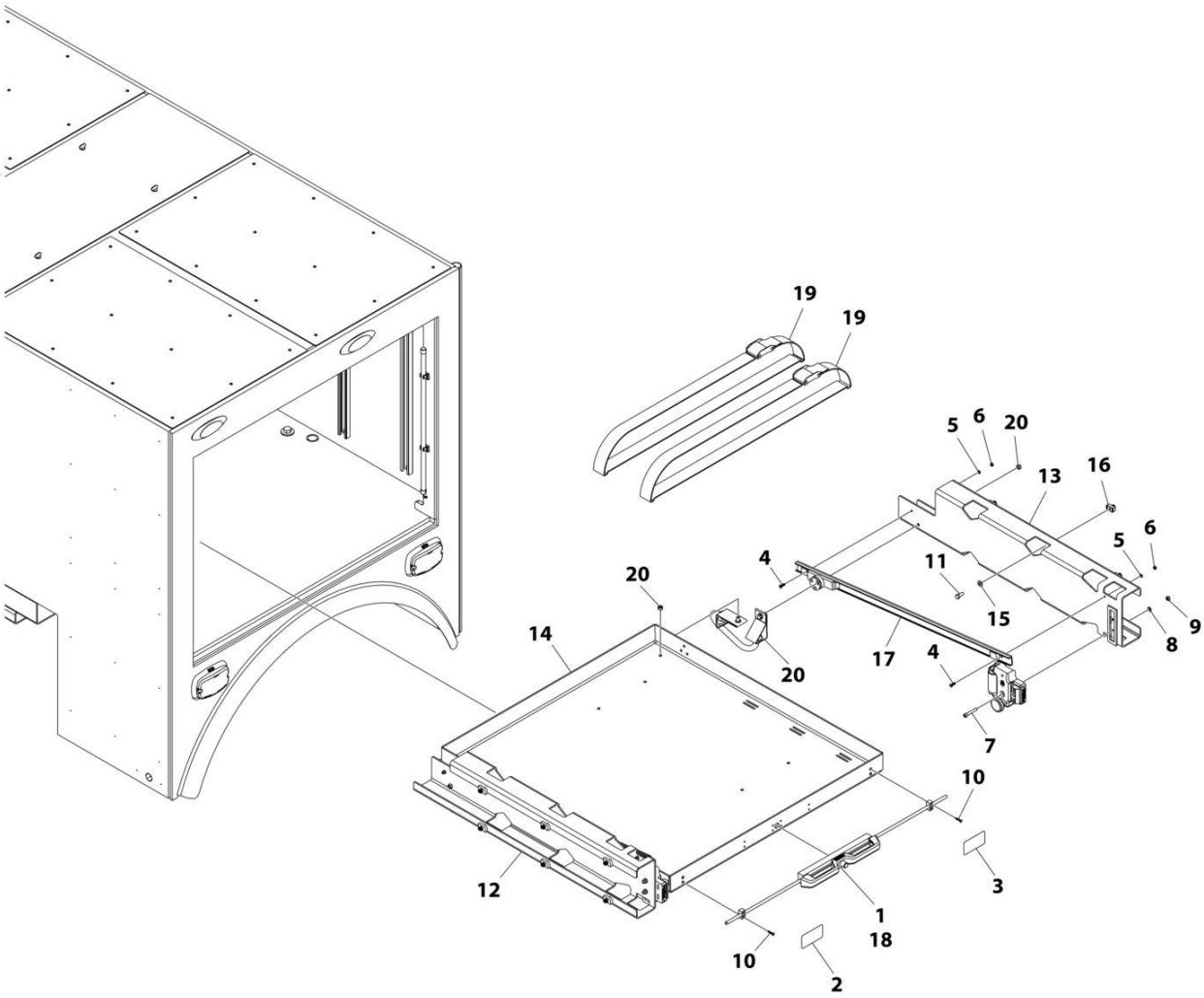


FIGURE 4-45. STORAGE - DRAWER INSTALLATION - TILT DOWN 56IN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001311472	Ref	DRAWER INSTALLATION - TILT DOWN	A
1	3020029	AR	Lubricant	
2	1001170090	1	Decal - Warning, Tilt Down Drawer	
3	1001170091	1	Decal - Max Cap 180LBS	
4	1001170305	4	Screw M6	
5	1001170307	4	Washer M6	
6	1001170310	4	Nut M6	
7	1001170328	4	Screw M8	
8	1001170329	4	Washer M8	
9	1001170330	4	Nut M8	
10	1001200997	4	Screw M5 x 25	
11	1001210454	12	Bolt 3/8 x 7/8	
12	1001284622	1	Bracket (LH)	
13	1001284623	1	Bracket (RH)	
14	1001311547	1	Tray, Tilt Down	
15	7950160143	12	Washer 3/8	
16	1001166644	12	Nut 3/8	
17	1001170331	1	Roller	
18	1001170332	1	Latch	
19	1001170428	2	Strap	
20	1001179349	2	Strap	

FIGURE 4-46. STORAGE - FIFTH WHEEL/PINTLE STORAGE INSTALLATION

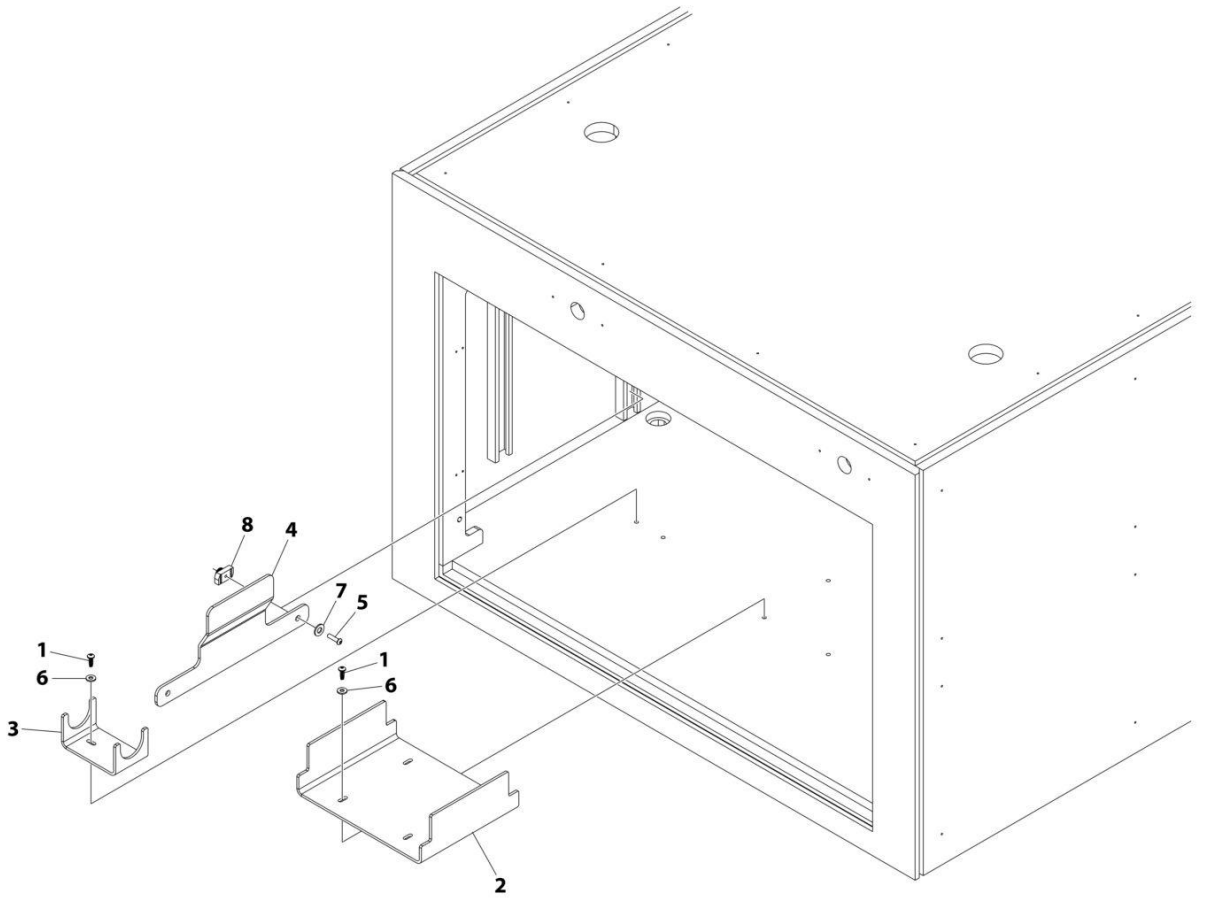


FIGURE 4-46. STORAGE - FIFTH WHEEL/PINTLE STORAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001294224	Ref	FIFTH WHEEL/PINTLE STORAGE INSTALLATION	B
1	1001194676	6	Screw 1/4 x 3/4	
2	1001284283	1	Bracket	
3	1001284284	1	Channel	
4	1001301919	1	Bracket	
5	7114140818	2	Capscrew 1/4 x 1	
6	7950140143	6	Washer 1/4	
7	7950160143	2	Washer 3/8	
8	1001183037	2	Spring Nut 1/4	

FIGURE 4-47. STORAGE - FIFTH WHEEL/PINTLE STORAGE INSTALLATION

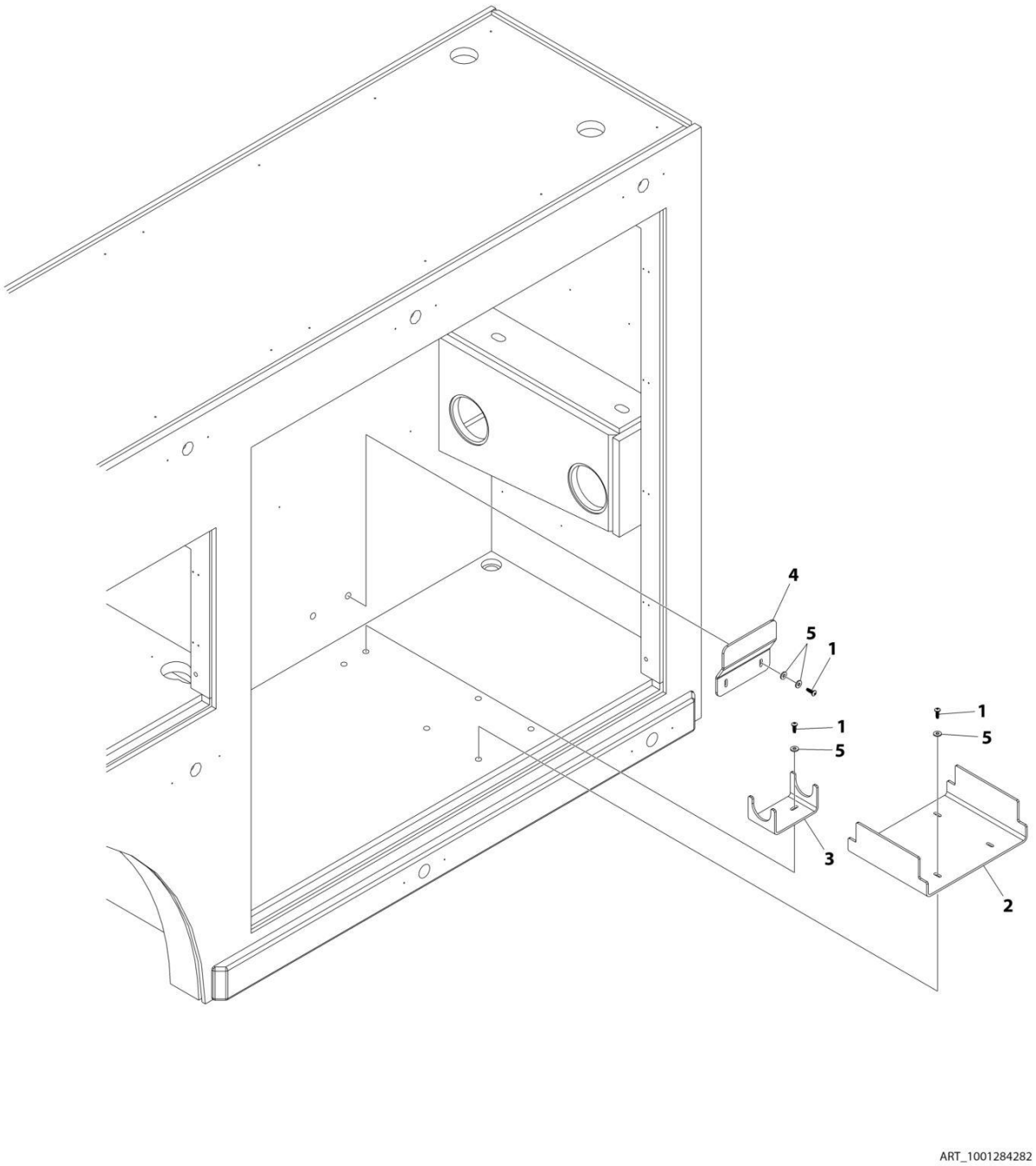


FIGURE 4-47. STORAGE - FIFTH WHEEL/PINTLE STORAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001284282	Ref	FIFTH WHEEL STORAGE INSTALLATION	B
1	1001194676	8	Screw 1/4 x 3/4	
2	1001284283	1	Bracket	
3	1001284284	1	Channel	
4	1001284285	1	Plate	
5	7950140143	10	Washer 1/4	

FIGURE 4-48. STORAGE - FORK RISERS STORAGE INSTALLATION

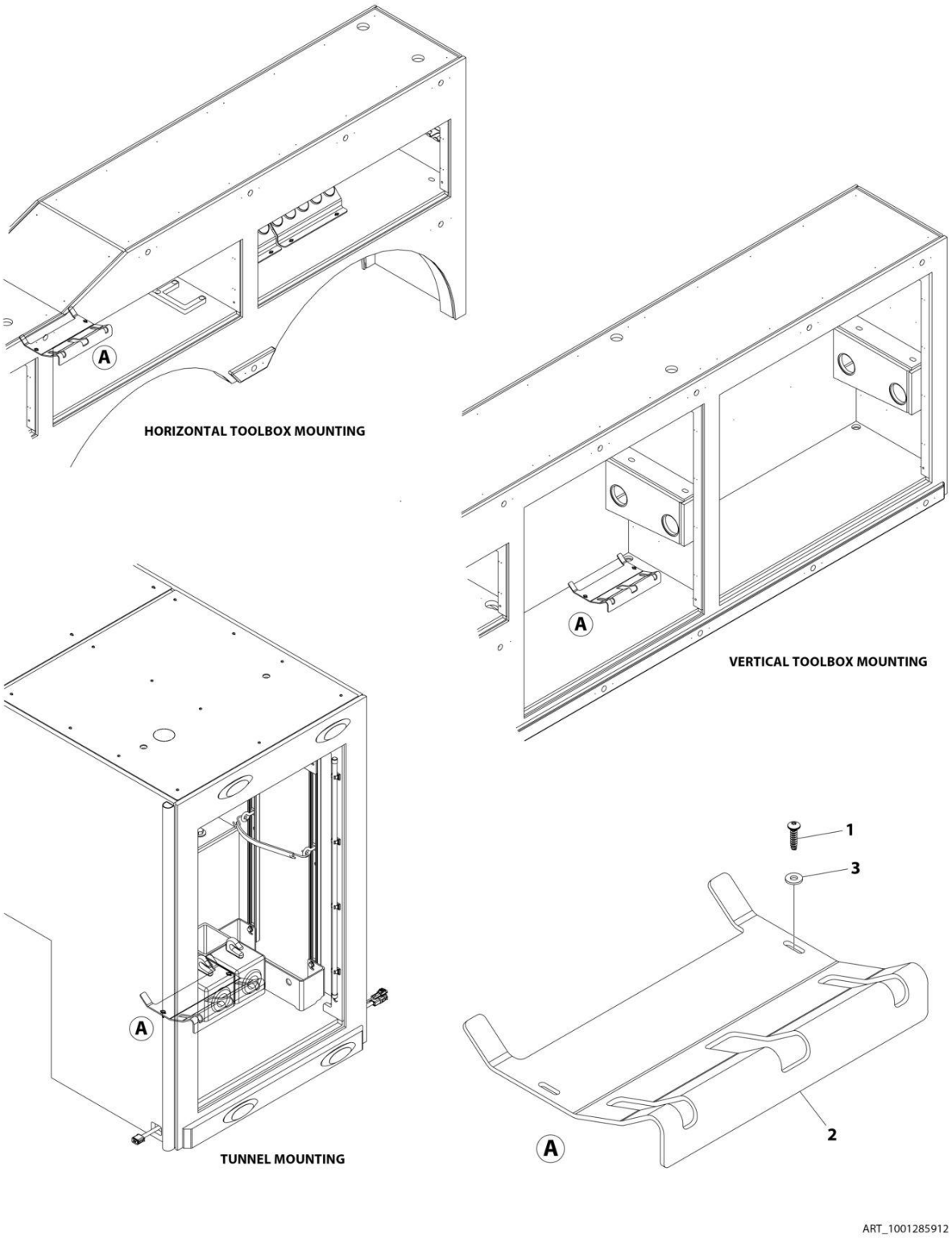


FIGURE 4-48. STORAGE - FORK RISERS STORAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001285912	Ref	FORK RISERS STORAGE INSTALLATION	B
1	1001195523	2	Screw 1/4 x 1	
2	1001285911	1	Bracket, Storage	
3	7950140143	2	Washer 1/4	

FIGURE 4-49. STORAGE - FORK STORAGE INSTALLATION - FRAME FORKS (MID WITH AXLE)

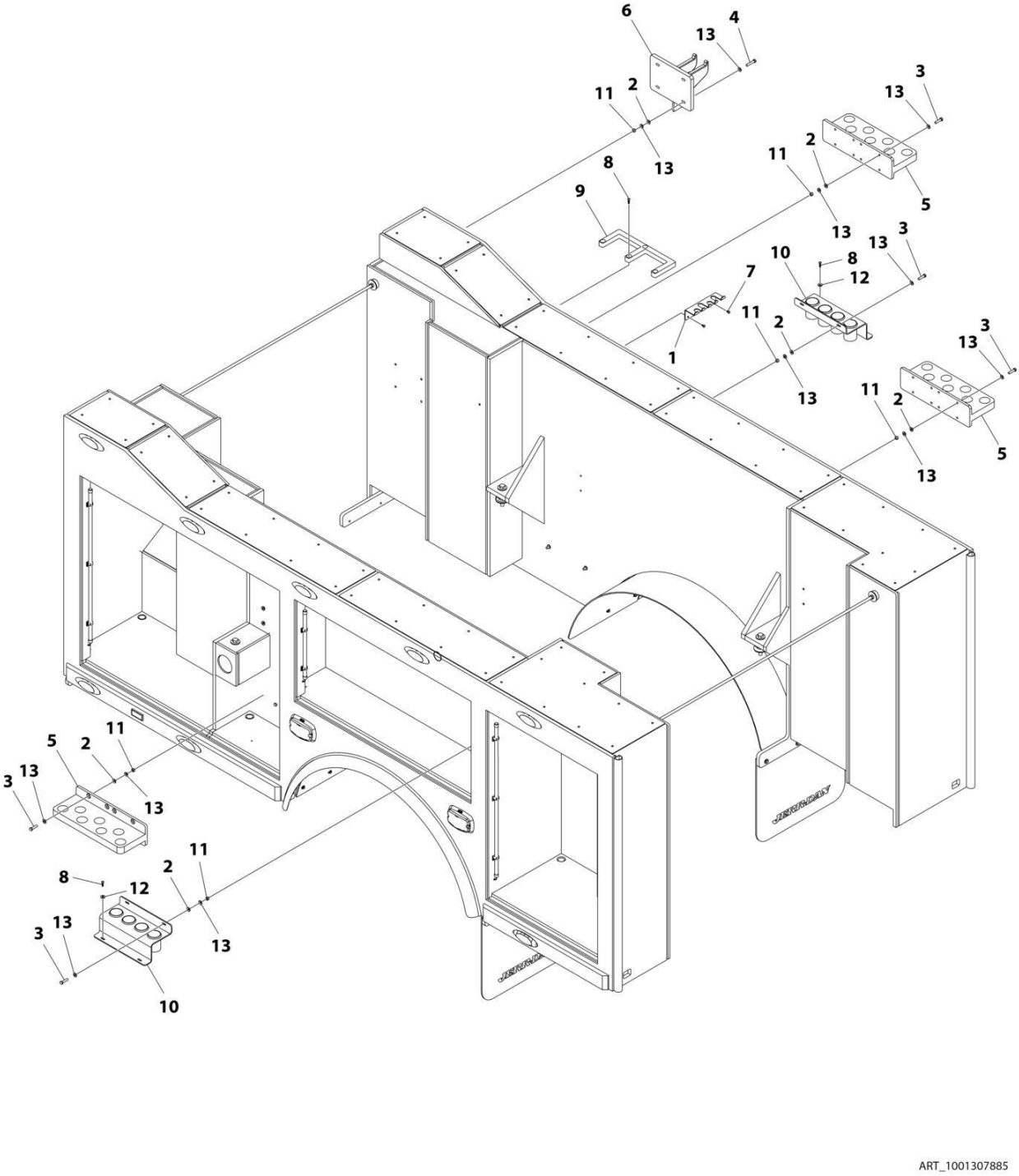


FIGURE 4-49. STORAGE - FORK STORAGE INSTALLATION - FRAME FORKS (MID WITH AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307885	Ref	FORK STORAGE INSTALLATION	A
1	1001160799	1	Bracket, Pin Storage	
2	1001166974	20	Washer 3/8	
3	1001168993	16	Bolt 3/8 x 1-1/2	
4	1001169083	4	Bolt 3/8 x 2	
5	1001170141	3	Bracket, Fork Storage	
6	1001190926	1	Bracket, Fork Adapter Storage	
7	1001195257	2	Screw 1/4 x 1/2	
8	1001195523	8	Screw 1/4 x 1	
9	1001195838	1	Bracket, Chain Hook Storage	
10	1001307881	2	Bracket, Fork Storage	
11	7660162601	20	Nut 3/8	
12	7950140143	4	Washer 1/4	
13	7950160143	40	Washer 3/8	

FIGURE 4-50. STORAGE - FORK STORAGE INSTALLATION - FRAME FORKS (MID WITHOUT AXLE)

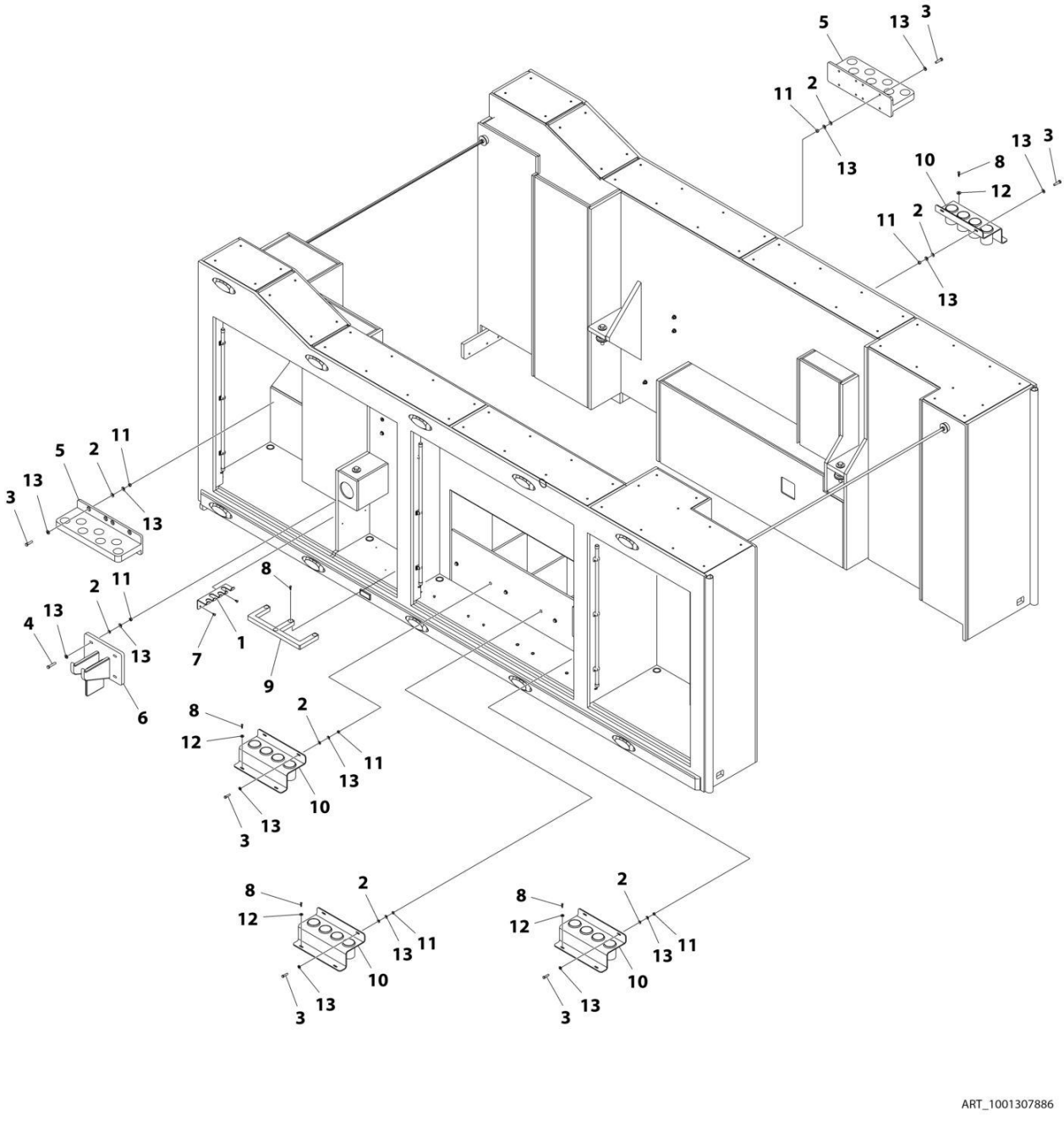
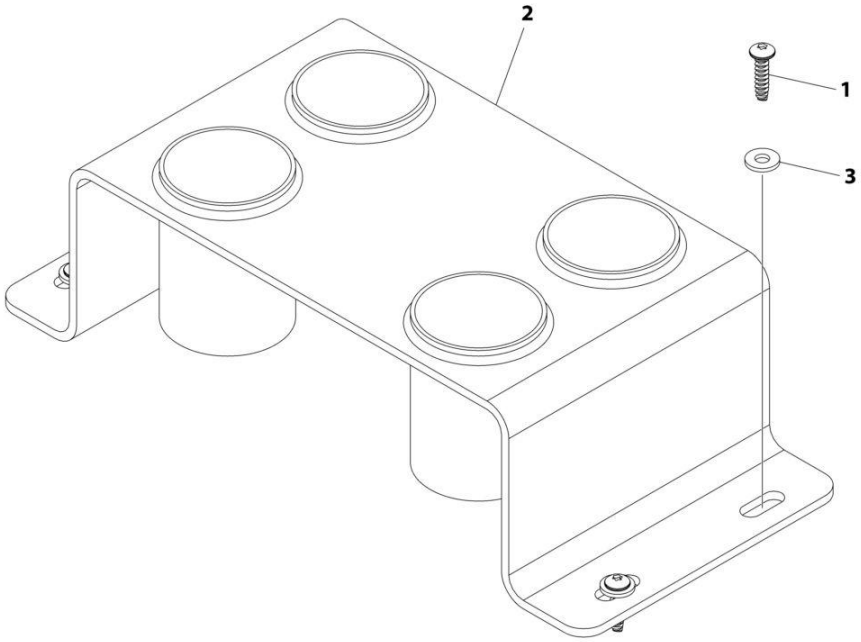


FIGURE 4-50. STORAGE - FORK STORAGE INSTALLATION - FRAME FORKS (MID WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307886	Ref	FORK STORAGE INSTALLATION	A
1	1001160799	1	Bracket, Pin Storage	
2	1001166974	20	Washer 3/8	
3	1001168993	16	Bolt 3/8 x 1-1/2	
4	1001169083	4	Bolt 3/8 x 2	
5	1001170141	2	Bracket, Fork Storage	
6	1001190926	1	Bracket, Fork Adapter Storage	
7	1001195257	2	Screw 1/4 x 1/2	
8	1001195523	12	Screw 1/4 x 1	
9	1001195838	1	Bracket, Chain Hook Storage	
10	1001307881	4	Bracket, Fork Storage	
11	7660162601	20	Nut 3/8	
12	7950140143	8	Washer 1/4	
13	7950160143	40	Washer 3/8	

FIGURE 4-51. STORAGE - FORK STORAGE INSTALLATION - SPRING FORKS REAR



ART_1001307887

FIGURE 4-51. STORAGE - FORK STORAGE INSTALLATION - SPRING FORKS REAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307887	Ref	FORK STORAGE INSTALLATION - REAR	A
1	1001195523	4	Screw 1/4 x 1	
2	1001307882	1	Bracket, Fork Storage	
3	7950140143	4	Washer 1/4	

FIGURE 4-52. STORAGE - SPREADER BAR STORAGE INSTALLATION

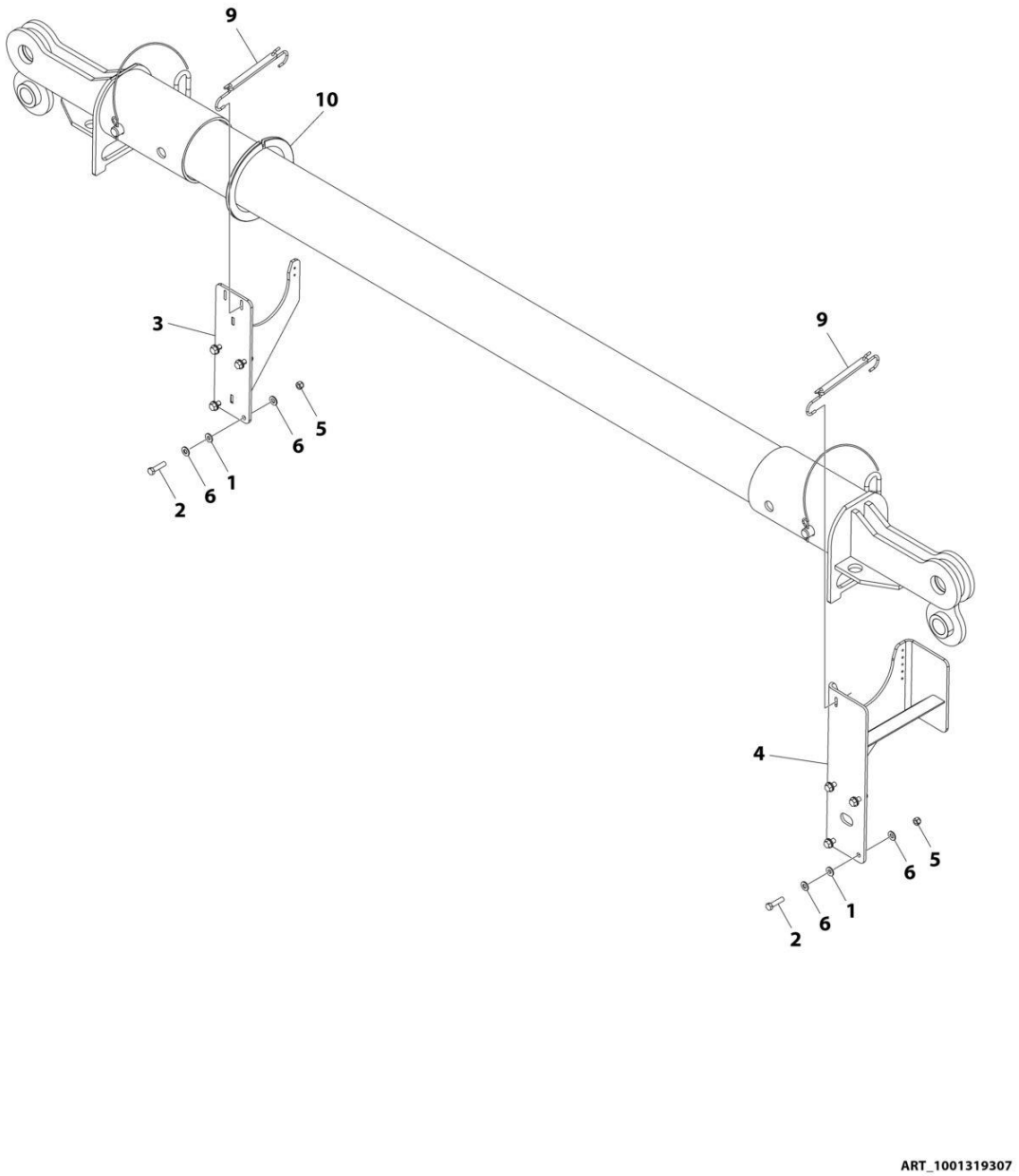


FIGURE 4-52. STORAGE - SPREADER BAR STORAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001319307	1	SPREADER BAR STORAGE INSTALLATION	A
1	1001166974	8	Washer 3/8	
2	1001168993	8	Bolt 3/8 x 1-1/2	
3	1001251200	1	Bracket	
4	1001251203	1	Bracket	
5	7660162601	8	Nut 3/8	
6	7950160143	16	Washer 3/8	
9	1001191736	2	Strap	
10	8632760025	2 ft	Moulding	
11	5663000112	1	Kit, Instructions (Not Shown)	

FIGURE 4-53. STORAGE - TIRE LIFT (TUNNEL)

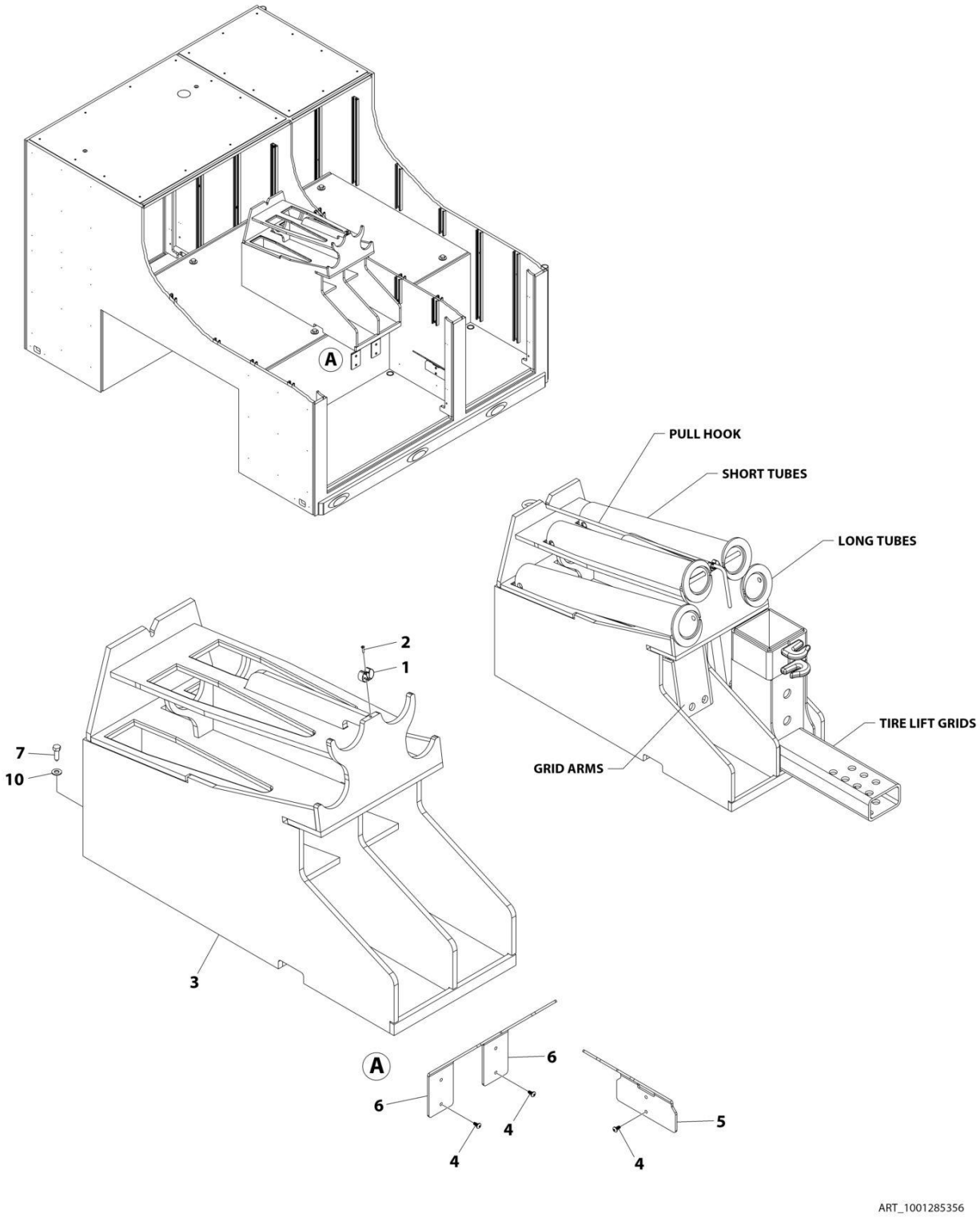


FIGURE 4-53. STORAGE - TIRE LIFT (TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001285356	Ref	TIRE STORAGE INSTALLATION (38IN)	C
1	1380135	1	Clip	
2	3900339	1	Screw #6 x 1/2	
3	1001192287	1	Storage	
4	1001195257	6	Screw 1/4 x 1/2	
5	1001285357	1	Bracket	
6	1001285358	2	Bracket	
7	1001168545	4	Capscrew 3/8 x 1-1/4	
10	7950160143	4	Washer 3/8	

FIGURE 4-54. STORAGE - TIRE LIFT (MID BODY NO AXLE)

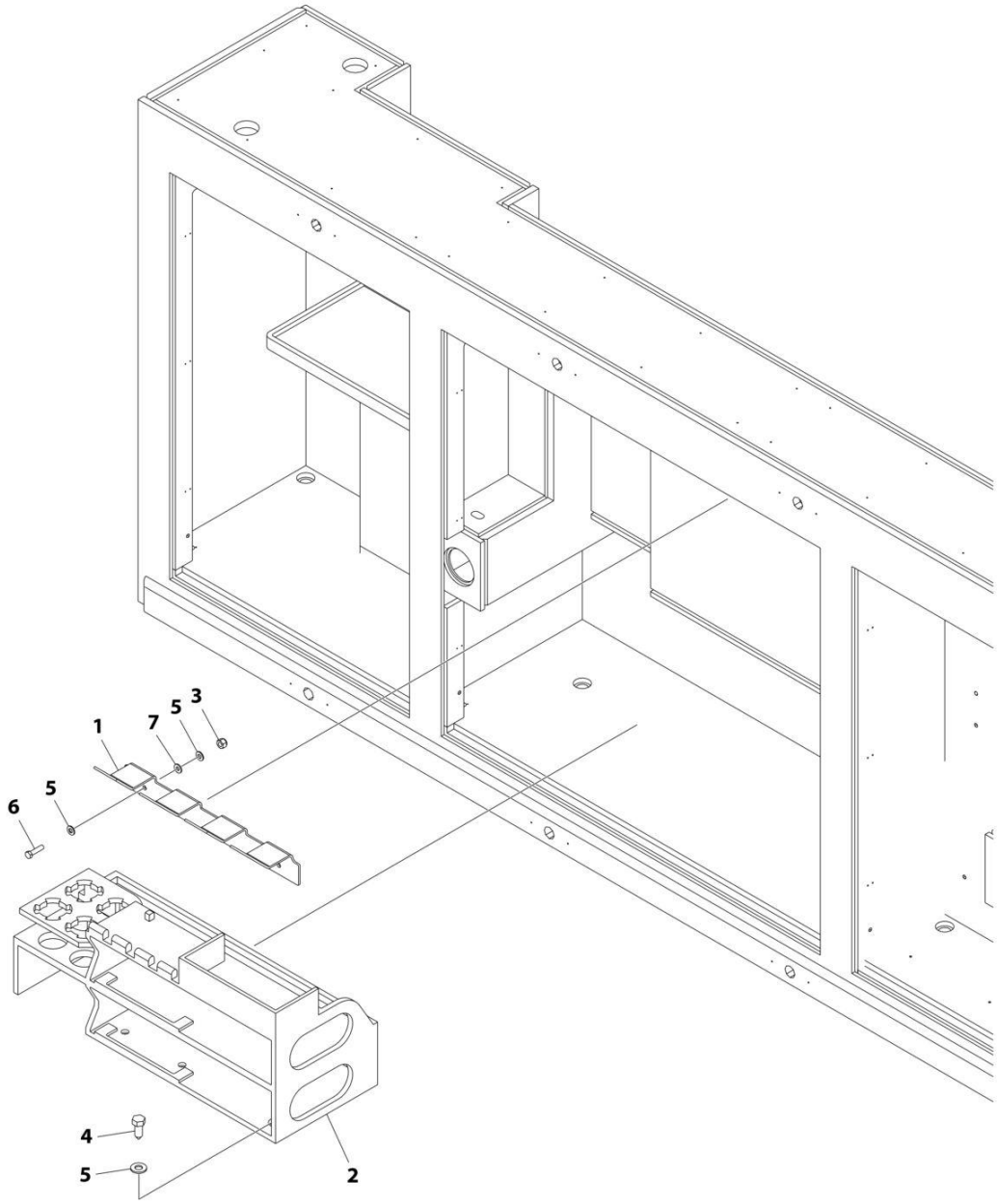
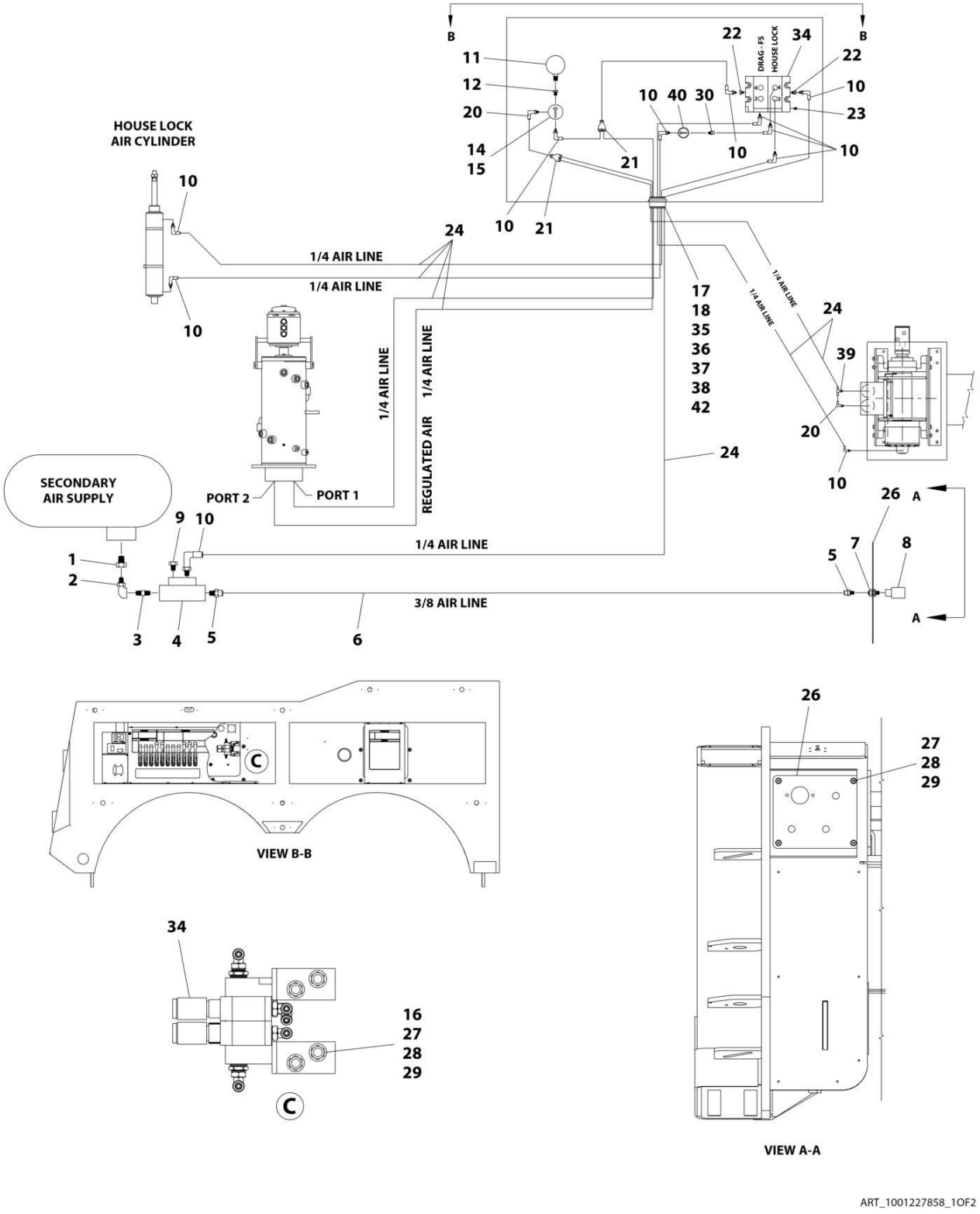


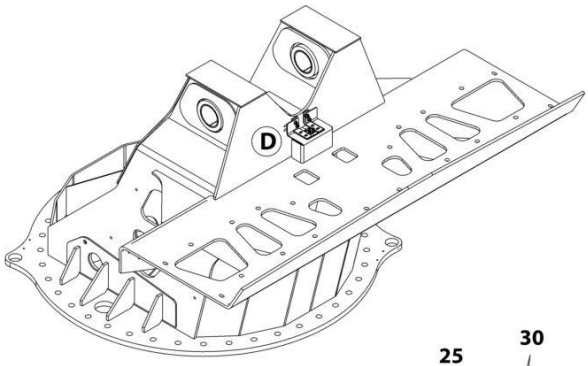
FIGURE 4-54. STORAGE - TIRE LIFT (MID BODY NO AXLE)

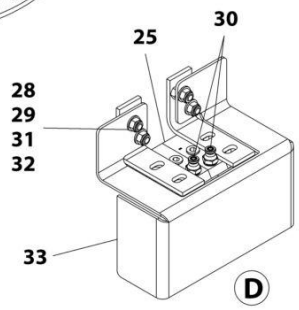
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001182753	Ref	BUS ARM STORAGE INSTALLATION	C
1	1001182247	1	Tray, Storage	
2	1001182248	1	Bracket	
3	7660162601	3	Nut 3/8	
4	1001168428	4	Screw 3/8 x 1	
5	7950160143	10	Washer 3/8	
6	1001168993	3	Screw 3/8 x 1-1/2	
7	1001166974	3	Washer 3/8	

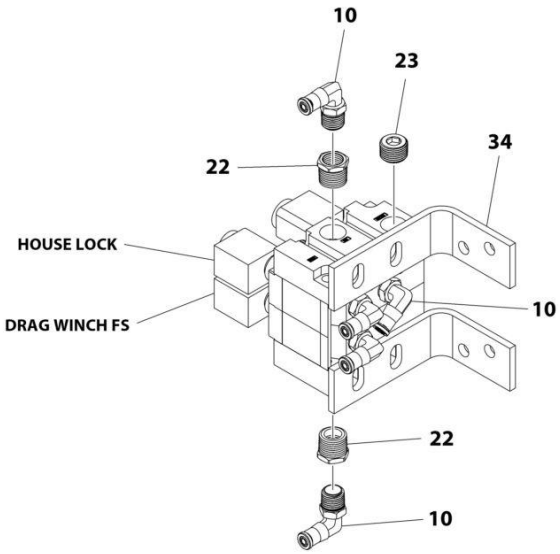
SECTION 5 - CONTROLS

FIGURE 5-1. AIR INSTALLATION - WITHOUT AUXILIARY WINCHES

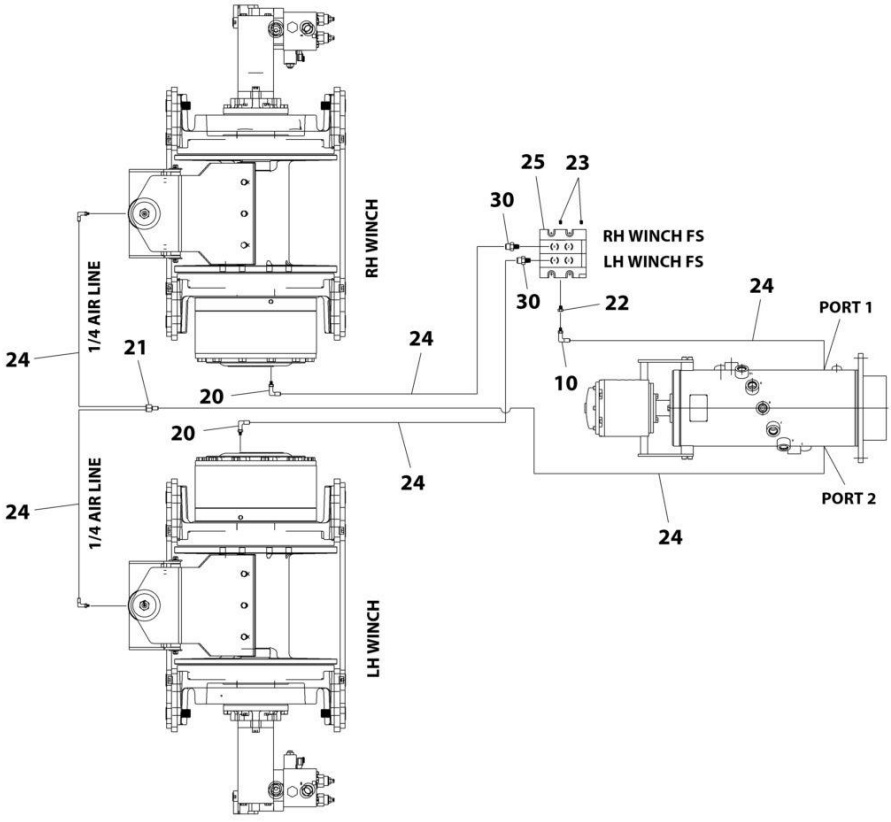








BODY MOUNTED AIR VALVE (ONLY)



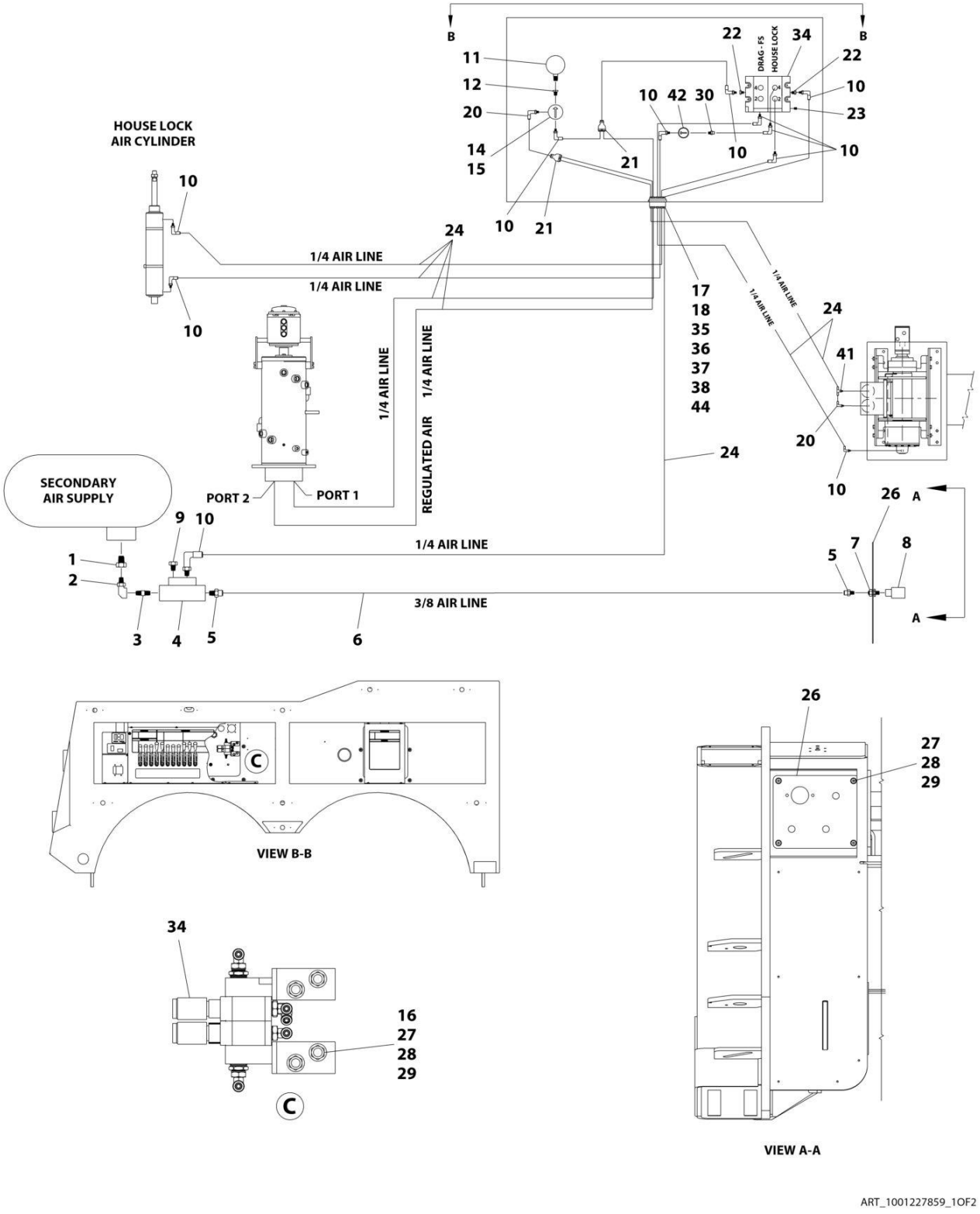
ART_1001227858_2OF2

SECTION 5 - CONTROLS

FIGURE 5-1. AIR INSTALLATION - WITHOUT AUXILIARY WINCHES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227858	Ref	AIR INSTALLATION - WITH UNDERLIFT WINCH - 35,000/50,000 LBS	E
1	7443000154	1	Bushing	
2	7443000155	1	Fitting, 90	
3	7443000156	1	Nipple	
4	7935000120	1	Valve, Pressure Protection Valve	
5	7443000175	2	Fitting, Straight	
6	7565000014	30 ft	Airline Tubing	
7	7446502518	1	Fitting, Bulkhead	
8	7312000017	1	Coupling, Quick Disconnect	
9	7444020013	1	Plug	
10	7443000139	12	Fitting, 90	
11	7470000006	1	Gauge, Air Pressure	
12	7443000149	1	Bushing	
14	7295000029	1	Air Regulator	
15	7661000041	1	Panel	
16	1001197482	4	Washer 5/16	
17	1001184765	NLA	Terminal, Bulkhead (Use PN 1001297064)	
17	1001297064	1	Terminal, Bulkhead	
18	1001197506	AR	Seal (Note: Use with Item 17 PN 1001184765 Only)	
20	7443000173	4	Fitting, 90	
21	7443000448	3	Fitting, Union	
22	7443000148	3	Bushing	
23	7444030037	3	Plug	
24	7565000016	200 ft	Airline Tubing	
25	1001129800	1	Air Valve 2 Section (See Separate Breakdown in HYDRAULIC Section)	
26	4706006033	1	Plate	
27	7114150850	8	Bolt 5/16 x 1	
28	7950150143	24	Washer 5/16	
29	7660152604	12	Nut 5/16	
30	7443000329	3	Fitting, Straight	
31	7660150001	4	Nut 5/16	
32	7115151450	4	Bolt 5/16 x 1-3/4	
33	1001135301	1	Shield, Air Valve	
34	1001227641	1	Air Valve	
35	7114100818	1	Screw #10	
36	7950100143	4	Washer 3/16	
37	1001207736	8	Washer #10	
38	7660102601	4	Nut #10	
39	7443000174	1	Fitting, Tee	
40	7935000248	1	Valve Air Regulator	
41	5526000553	2	Tie Plastic Strap (Not Shown)	
42	8798820001	AR	Sealant	

FIGURE 5-2. AIR INSTALLATION - WITH AUXILIARY WINCHES



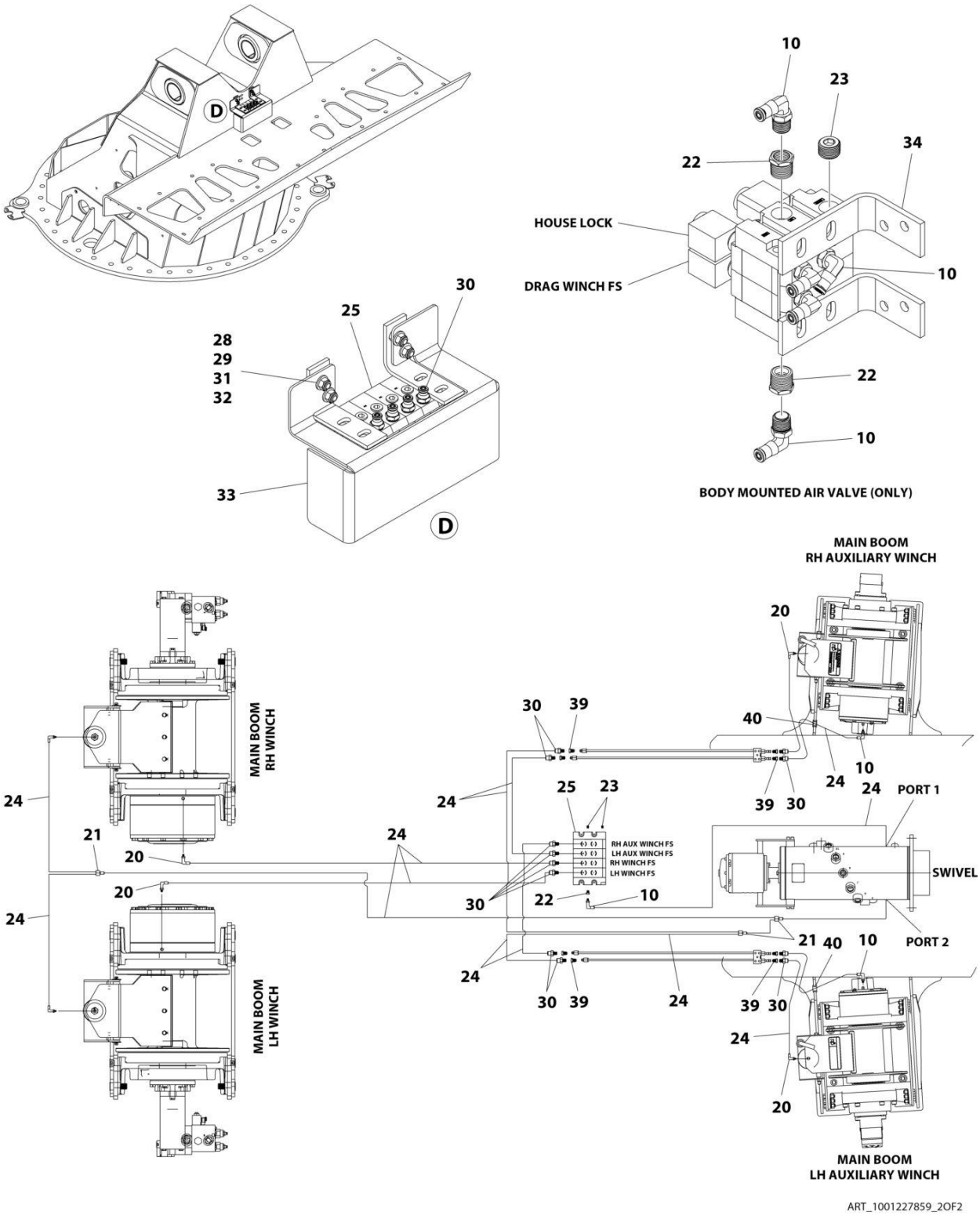
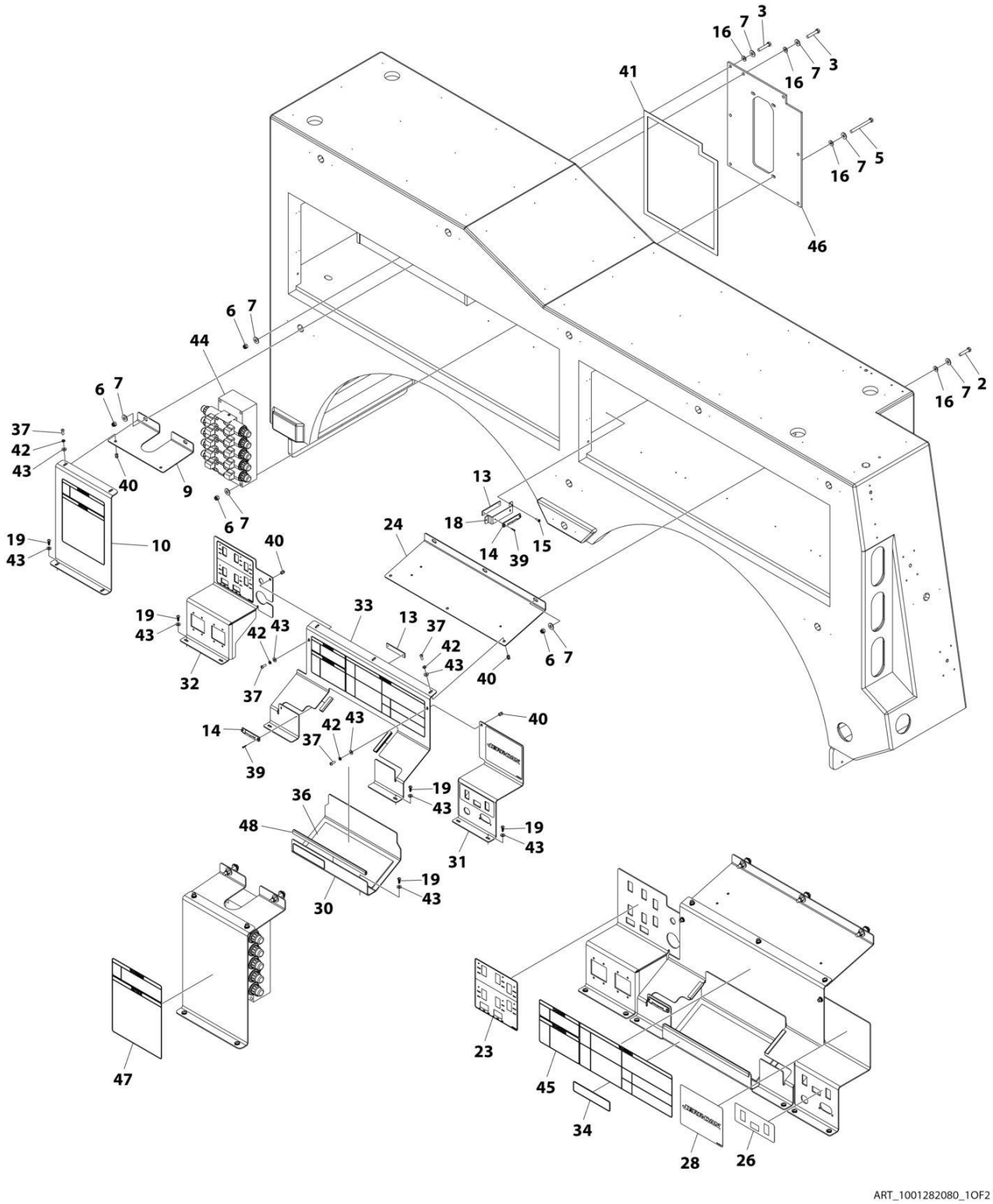

D
10
23
34
22
HOUSE LOCK
DRAG WINCH FS
10
22
10
30
25
28
29
31
32
33
D
BODY MOUNTED AIR VALVE (ONLY)
MAIN BOOM
RH AUXILIARY WINCH
MAIN BOOM
RH WINCH
MAIN BOOM
LH WINCH
MAIN BOOM
LH AUXILIARY WINCH
RH AUX WINCH FS
LH AUX WINCH FS
RH WINCH FS
LH WINCH FS
PORT 1
PORT 2
SWIVEL
ART_1001227859_2OF2

FIGURE 5-2. AIR INSTALLATION - WITH AUXILIARY WINCHES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001227859	Ref	AIR INSTALLATION - WITH AUXILIARY WINCHES AND WITH UNDERLIFT WINCH - 20,000/35,000/50,000 LBS	E
1	7443000154	1	Bushing	
2	7443000155	1	Fitting, 90	
3	7443000156	1	Nipple	
4	7935000120	1	Valve, Pressure Protection Valve	
5	7443000175	2	Fitting, Straight	
6	7565000014	30 ft	Airline Tubing	
7	7446502518	1	Fitting, Bulkhead	
8	7312000017	1	Coupling, Quick Disconnect	
9	7444020013	1	Plug	
10	7443000139	14	Fitting, 90	
11	7470000006	1	Gauge, Air Pressure	
12	7443000149	1	Bushing	
14	7295000029	1	Air Regulator	
15	7661000041	1	Panel	
16	1001197482	4	Washer 5/16	
17	1001184765	NLA	Terminal, Bulkhead (Use PN 1001297064)	
17	1001297064	1	Terminal, Bulkhead	
18	1001197506	AR	Seal (Note: Use with Item 17 PN 1001184765 Only)	
20	7443000173	6	Fitting, 90	
21	7443000448	5	Fitting, Union	
22	7443000148	3	Bushing	
23	7444030037	3	Plug	
24	7565000016	225 ft	Airline Tubing	
25	1001157941	1	Air Valve 4 Section (See Separate Breakdown in HYDRAULIC Section)	
26	4706006033	1	Plate	
27	7114150850	8	Bolt 5/16 x 1	
28	7950150143	24	Washer 5/16	
29	7660152604	12	Nut 5/16	
30	7443000329	12	Fitting, Straight	
31	7660150001	4	Nut 5/16	
32	7115151450	4	Bolt 5/16 x 1-3/4	
33	1001158940	1	Shield, Air Valve	
34	1001227641	1	Air Valve	
35	7114100818	4	Screw #10	
36	7950100143	8	Washer 3/16	
37	1001207736	4	Washer #10	
38	7660102601	4	Nut #10	
39	7445040421	8	Fitting, 90	
40	1001145816	2	Grommet	
41	7443000174	1	Fitting, Tee	
42	7935000248	1	Valve Air Regulator	
43	5526000553	2	Tie Plastic Strap (Not Shown)	
44	8798820001	AR	Sealant	

FIGURE 5-3. CONTROLS INSTALLATION - 9 SECTION



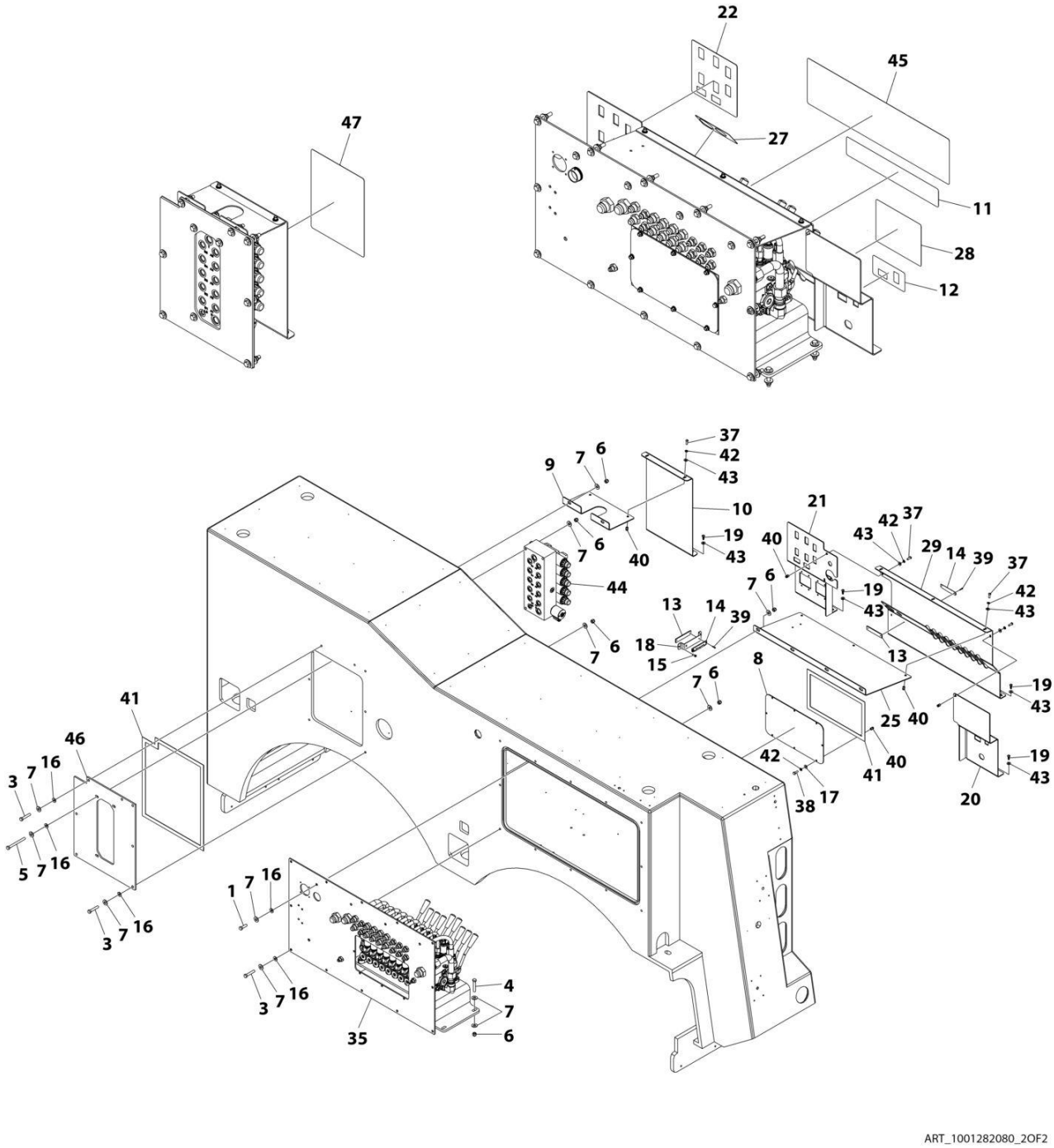

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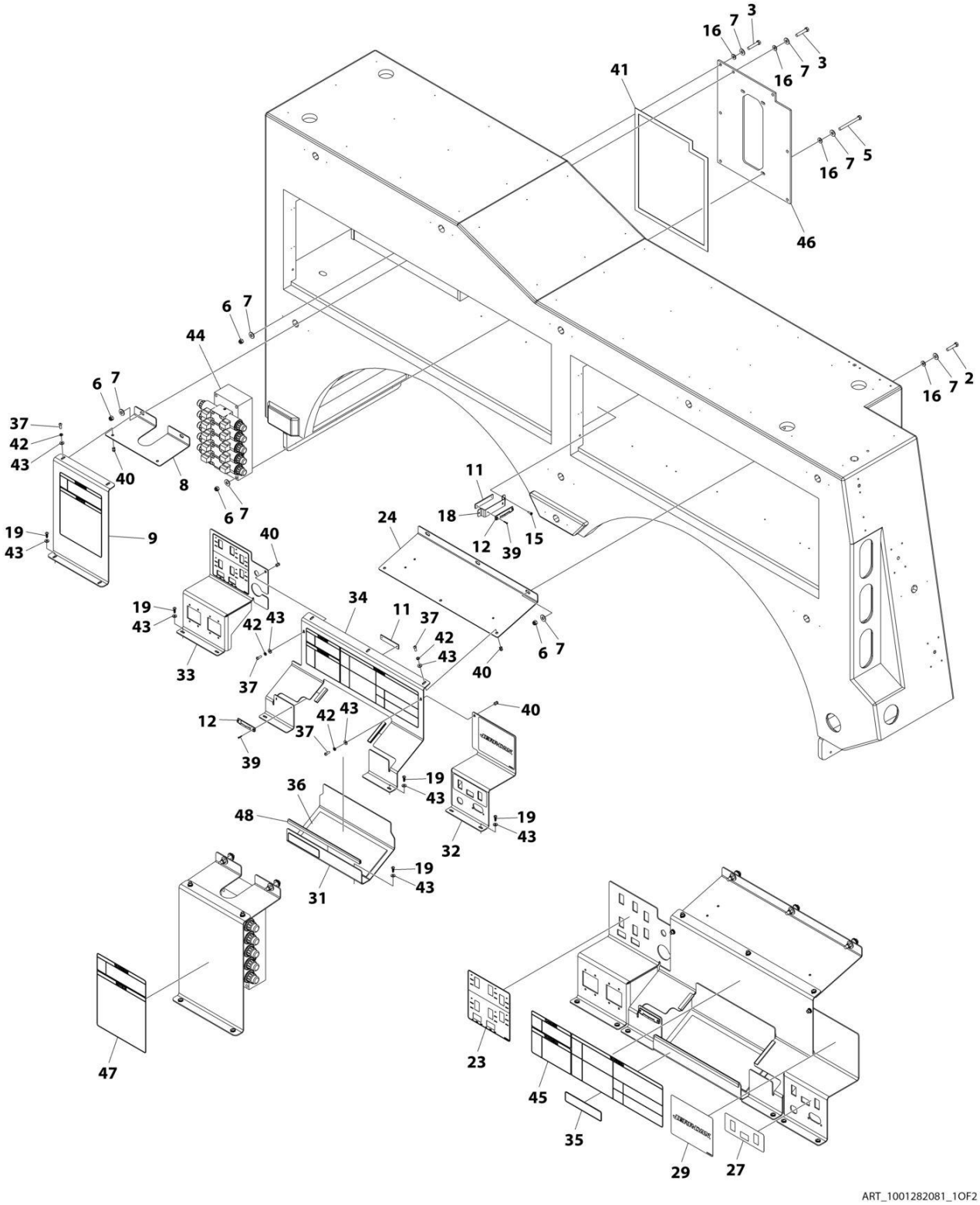
FIGURE 5-3. CONTROLS INSTALLATION - 9 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001282080	Ref	CONTROLS INSTALLATION - 9 SECTION	A
1	0641610	4	Bolt 3/8 x 1-1/4	
2	0641614	3	Bolt 3/8 x 1-3/4	
3	0641616	21	Bolt 3/8 x 2	
4	0641618	9	Bolt 3/8 x 2-1/4	
5	0641632	6	Bolt 3/8 x 4	
6	3300492	43	Nut 3/8	
7	4751600	87	Washer 3/8	
8	1001130450	1	Panel	
9	1001134411	2	Panel, Top	
10	1001134412	2	Panel, Front	
11	1001134450	1	Decal	
12	1001154075	1	Decal - Swing	
13	1001156079	4	Bar	
14	1001156279	4	Inclinometer	
15	1001166322	4	Screw	
16	1001166974	40	Washer 3/8	
17	1001166978	8	Washer 1/4	
18	1001167099	2	Mount	
19	1001194676	20	Screw 1/4 x 3/4	
20	1001239606	1	Panel, RH Rear	
21	1001239607	1	Panel, RH Front	
22	1001239610	1	Decal, RH	
23	1001239611	1	Decal, LH	
24	1001260551	1	Panel, LH Top	
25	1001260552	1	Panel, RH Top	
26	1001262938	1	Decal - House Lock Alarm Override	
27	1001262939	1	Decal - Winch Air Tensioner	
28	1001262942	2	Decal - JD Logo	
29	1001263047	1	Panel, RH Center	
30	1001282165	1	Bracket	
31	1001283307	1	Panel, LH Rear	
32	1001283310	1	Panel, LH Front	
33	1001283311	1	Panel, LH Center	
34	1001283399	1	Decal - Remote Tether Plug IN	
35	1001283441	Ref	Valve and Hoses Installation (See Separate Breakdown in HYDRAULIC Section)	
36	4679000124	1	Pad	
37	7114140618	14	Screw 1/4 x 3/4	
38	7114140650	8	Screw 1/4 x 3/4	
39	7120000047	8	Screw #4 x 5/8	
40	7413000002	22	Nut 1/4	
41	7796000012	15 ft	Seal	
42	7950140003	22	Washer 1/4	
43	7950140143	34	Washer 1/4	
44	1001134376	2	Valve Assembly - Outrigger (See Separate Breakdown in HYDRAULIC Section)	
45	1001136146	2	Decal - Control Station Hazard	
46	1001137159	2	Plate	
47	1001137160	2	Decal - Manual Override	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	8632000012	1.8 ft	Trim-Lock	

SECTION 5 - CONTROLS

FIGURE 5-4. CONTROLS INSTALLATION - 11 SECTION



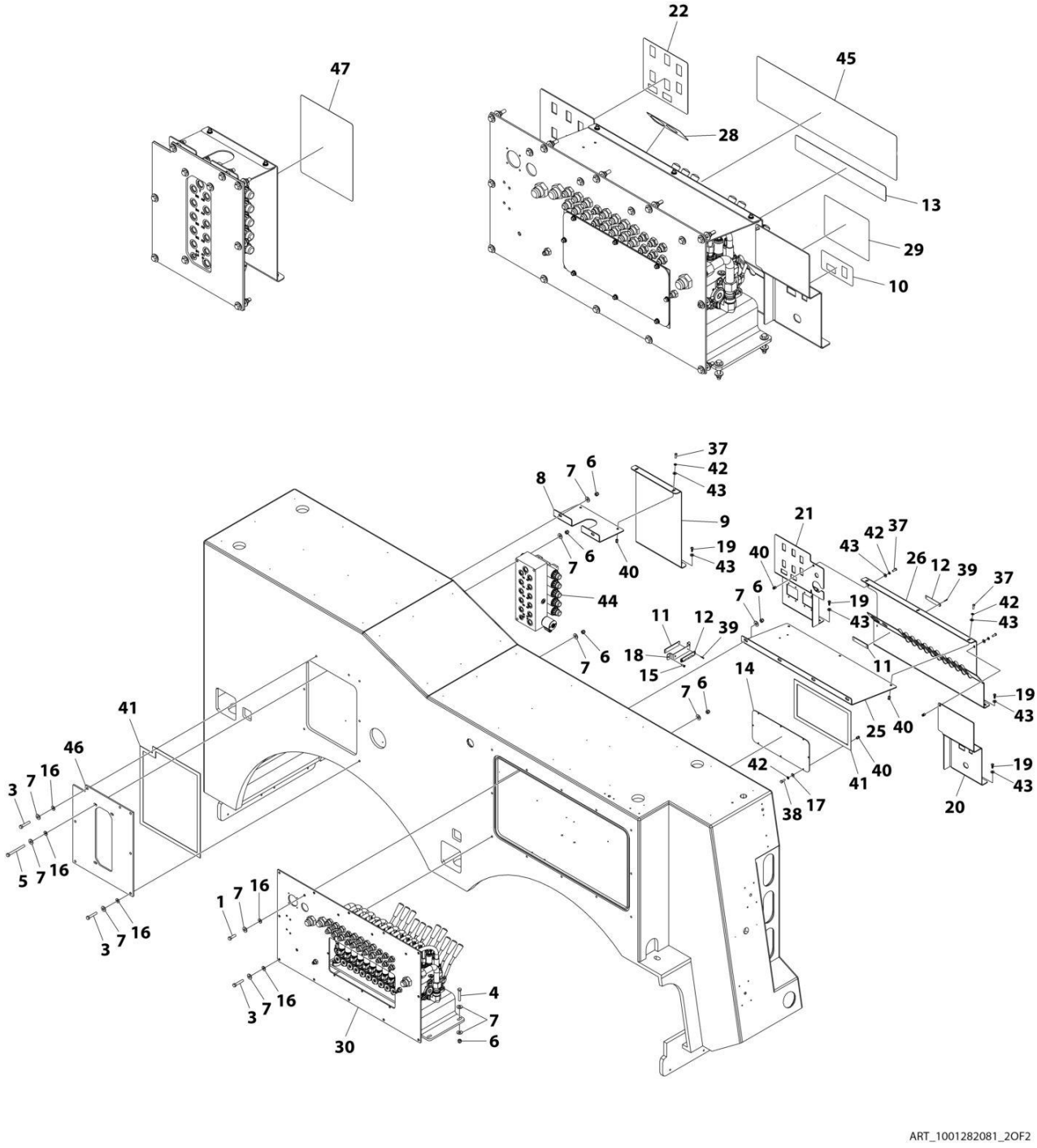

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FIGURE 5-4. CONTROLS INSTALLATION - 11 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001282081	Ref	CONTROLS INSTALLATION - 11 SECTION	A
1	0641610	4	Bolt 3/8 x 1-1/4	
2	0641614	3	Bolt 3/8 x 1-3/4	
3	0641616	21	Bolt 3/8 x 2	
4	0641618	9	Bolt 3/8 x 2-1/4	
5	0641632	6	Bolt 3/8 x 4	
6	3300492	43	Nut 3/8	
7	4751600	87	Washer 3/8	
8	1001134411	2	Panel, Top	
9	1001134412	2	Panel, Front	
10	1001154075	1	Decal - Swing	
11	1001156079	4	Bar	
12	1001156279	4	Inclinometer	
13	1001157232	1	Decal	
14	1001157240	1	Panel, RH	
15	1001166322	4	Screw	
16	1001166974	40	Washer 3/8	
17	1001166978	8	Washer 1/4	
18	1001167099	2	Mount	
19	1001194676	20	Screw 1/4 x 3/4	
20	1001239606	1	Panel, RH Rear	
21	1001239607	1	Panel, RH Front	
22	1001239610	1	Decal, RH	
23	1001239611	1	Decal, LH	
24	1001260551	1	Panel, LH Top	
25	1001260552	1	Panel, RH Top	
26	1001260760	1	Panel, RH Center	
27	1001262938	1	Decal - House Lock Alarm Override	
28	1001262939	1	Decal - Winch Air Tensioner	
29	1001262942	2	Decal - JD Logo	
30	1001282084	Ref	Valve and Hoses Installation (See Separate Breakdown in HYDRAULIC Section)	
31	1001282165	1	Bracket	
32	1001283307	1	Panel, LH Rear	
33	1001283310	1	Panel, LH Front	
34	1001283311	1	Panel, LH Center	
35	1001283399	1	Decal - Remote Tether Plug IN	
36	4679000124	1	Pad	
37	7114140618	14	Screw 1/4 x 3/4	
38	7114140650	8	Screw 1/4 x 3/4	
39	7120000047	8	Screw #4 x 5/8	
40	7413000002	22	Nut 1/4	
41	7796000012	10.8 ft	Seal	
42	7950140003	22	Washer 1/4	
43	7950140143	34	Washer 1/4	
44	1001134376	2	Valve Assembly - Outrigger (See Separate Breakdown in HYDRAULIC Section)	
45	1001136146	2	Decal - Control Station Hazard	
46	1001137159	2	Plate	
47	1001137160	2	Decal - Manual Override	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	8632000012	1.8 ft	Trim-Lock	

FIGURE 5-5. CONTROL ASSEMBLY - 16 FUNCTION

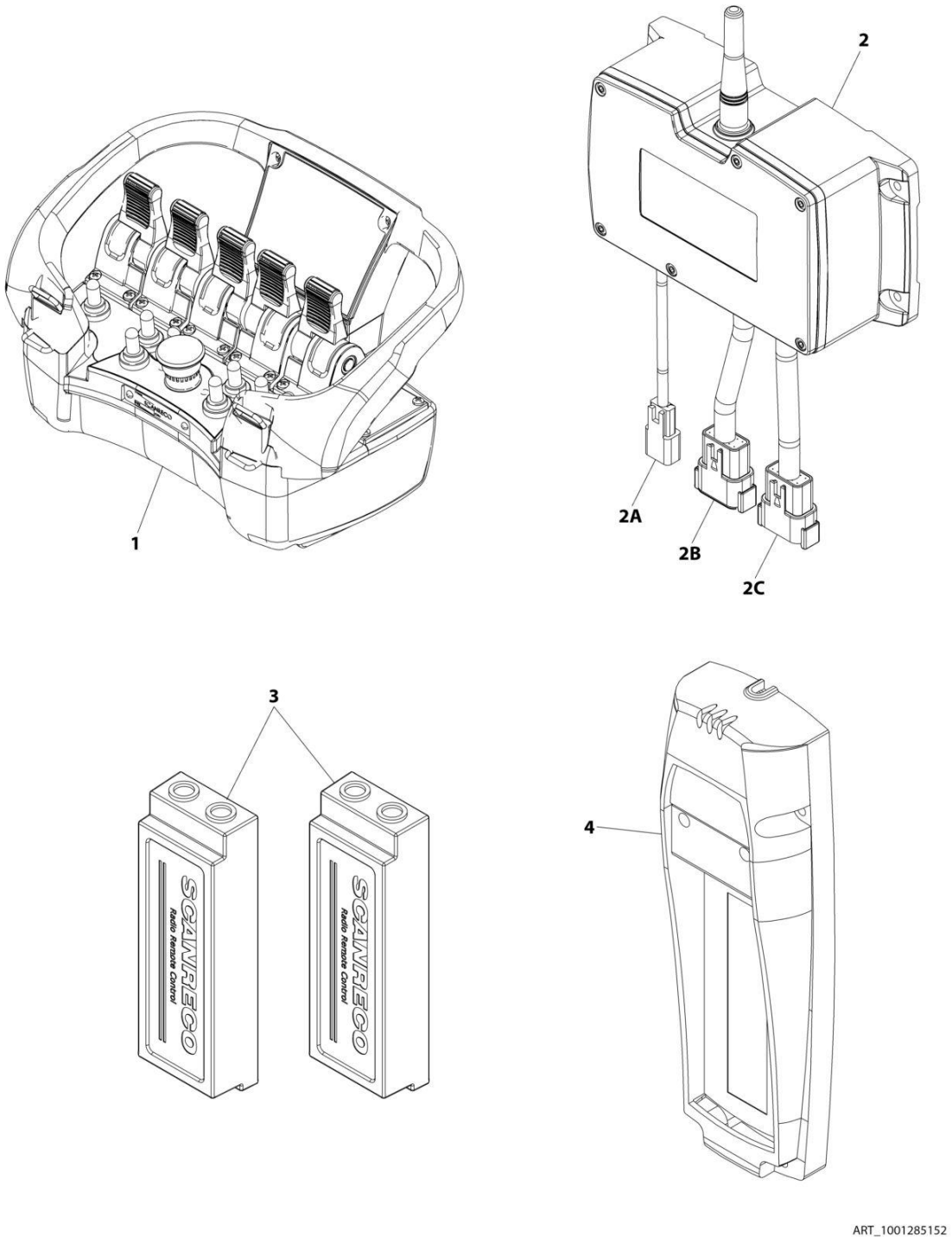


FIGURE 5-5. CONTROL ASSEMBLY - 16 FUNCTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001285152	Ref	CONTROL ASSEMBLY - 16 FUNCTION	A
1	1001257908	1	Transmitter	
2	1001257911	1	Receiver	
2A	4460910	1	Connector	
2A	4460929	3	Terminal	
2B	1001132170	1	Connector	
2B	4460929	12	Terminal	
2C	1001132169	1	Connector	
2C	4460929	10	Terminal	
3	1001232868	2	Battery	
4	1001226798	1	Charger, Battery	
5	1001230715	1	Cable, Tether Control (Not Shown)	
6	1001232869	1	Strap, Neck (for Transmitter) (Not Shown)	

FIGURE 5-6. IN-CAB CONTROLS INSTALLATION - FLOOR MOUNTED WITHOUT UNDERLIFT

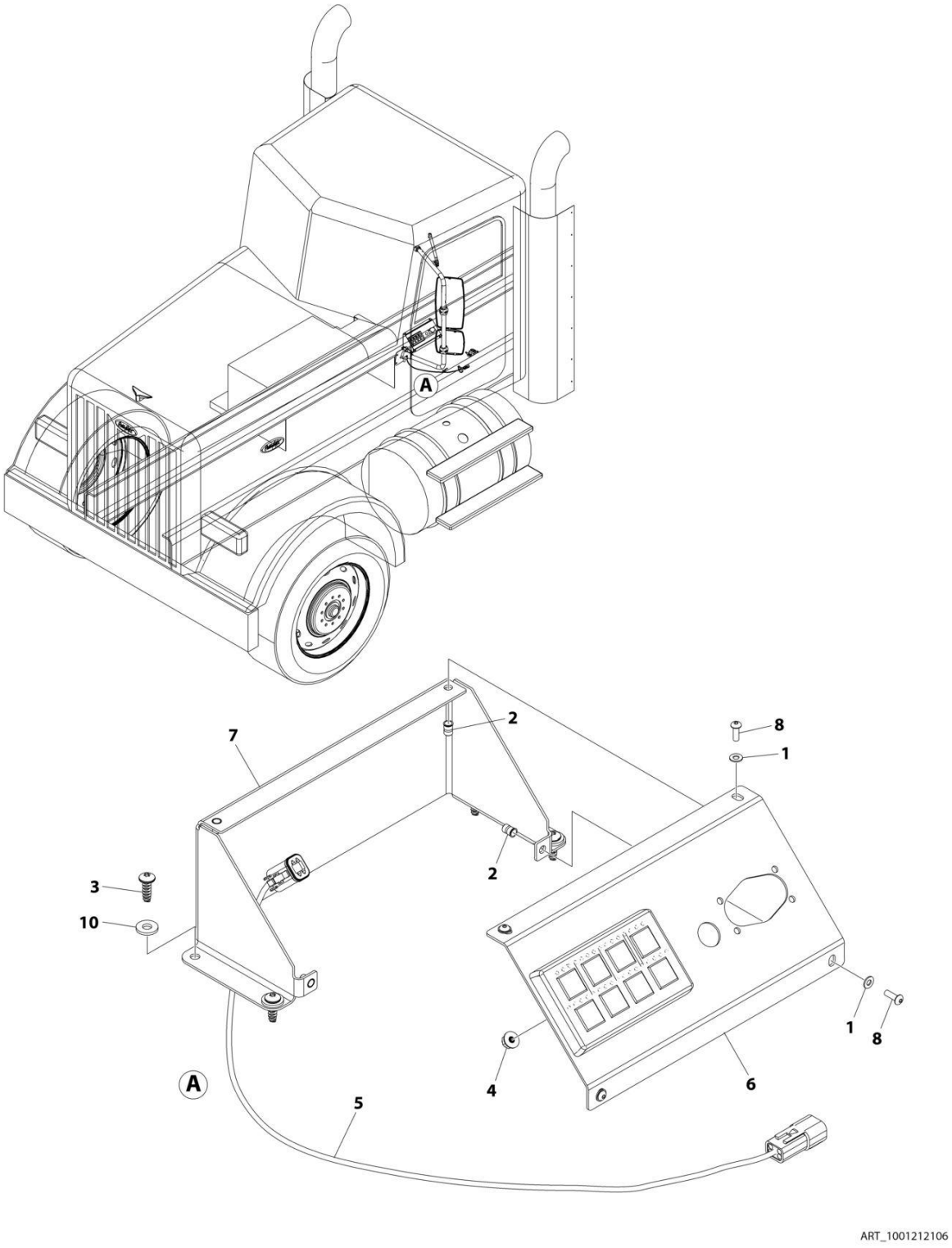


FIGURE 5-6. IN-CAB CONTROLS INSTALLATION - FLOOR MOUNTED WITHOUT UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212106	Ref	CONTROLS (IN-CAB) INSTALLATION (FLOOR MOUNTED)	A
1	1001097942	4	Washer #8	
2	1001151546	4	Nut #8	
3	1001194676	4	Screw 1/4 x 3/4	
4	1001209616	2	Nut #10	
5	1001215421	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
6	1001216233	1	Panel	
7	1001216239	1	Panel	
8	7114080418	4	Screw #8 x 1/2	
9	7894000004	6	Tie-Strap (Not Shown)	
10	7950140143	4	Washer 1/4	

FIGURE 5-7. IN-CAB CONTROLS INSTALLATION - KENWORTH T880 WITHOUT UNDERLIFT

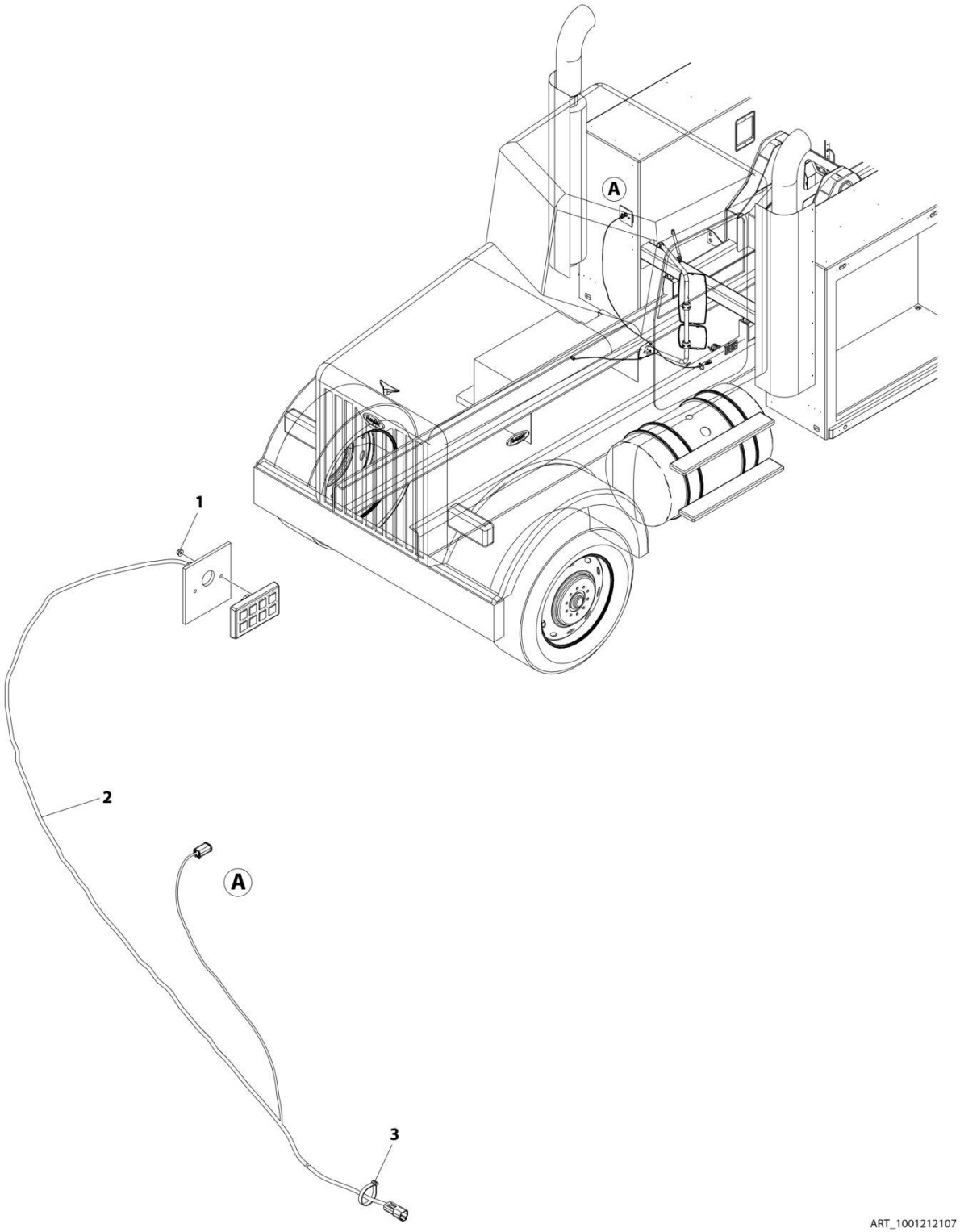


FIGURE 5-7. IN-CAB CONTROLS INSTALLATION - KENWORTH T880 WITHOUT UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212107	Ref	Switch Panel KW T880 Lighting Installation	B
1	1001209616	2	Nut #10	
2	1001215436	1	Harness (See Separate Breakdown in ELECTRICAL Section)	
3	7894000004	5	Tie Strap	

FIGURE 5-8. IN-CAB CONTROLS INSTALLATION - PETERBILT 567 WITHOUT UNDERLIFT

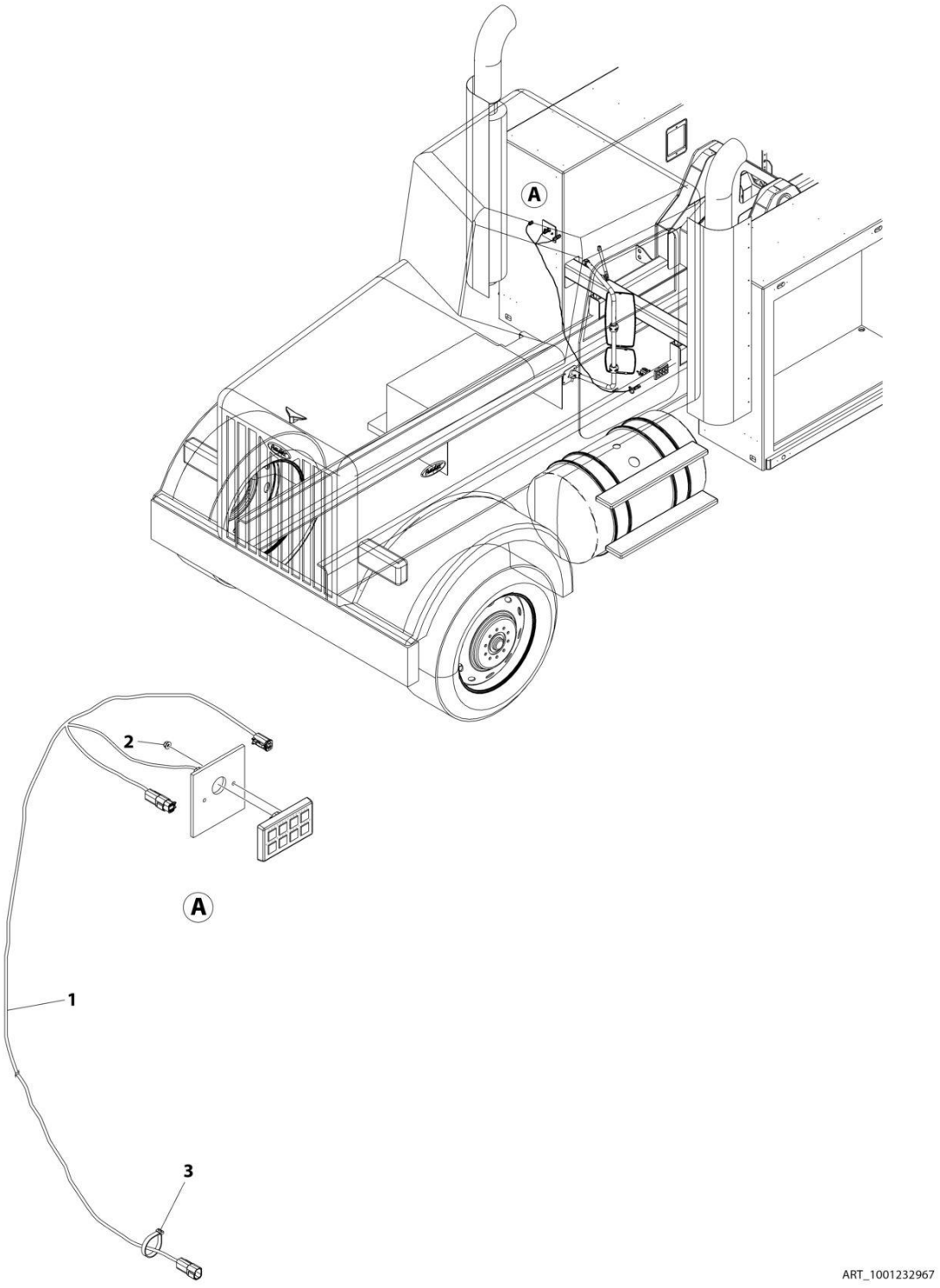


FIGURE 5-8. IN-CAB CONTROLS INSTALLATION - PETERBILT 567 WITHOUT UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232967	Ref	Switch Panel PETE 567 Lighting Installation	A
1	1001208976	1	Harness (See Separate Breakdown in ELECTRICAL Section)	
2	1001209616	2	Nut #10	
3	7894000004	7	Tie Strap	

FIGURE 5-9. IN-CAB CONTROLS INSTALLATION - FLOOR MOUNTED WITH UNDERLIFT

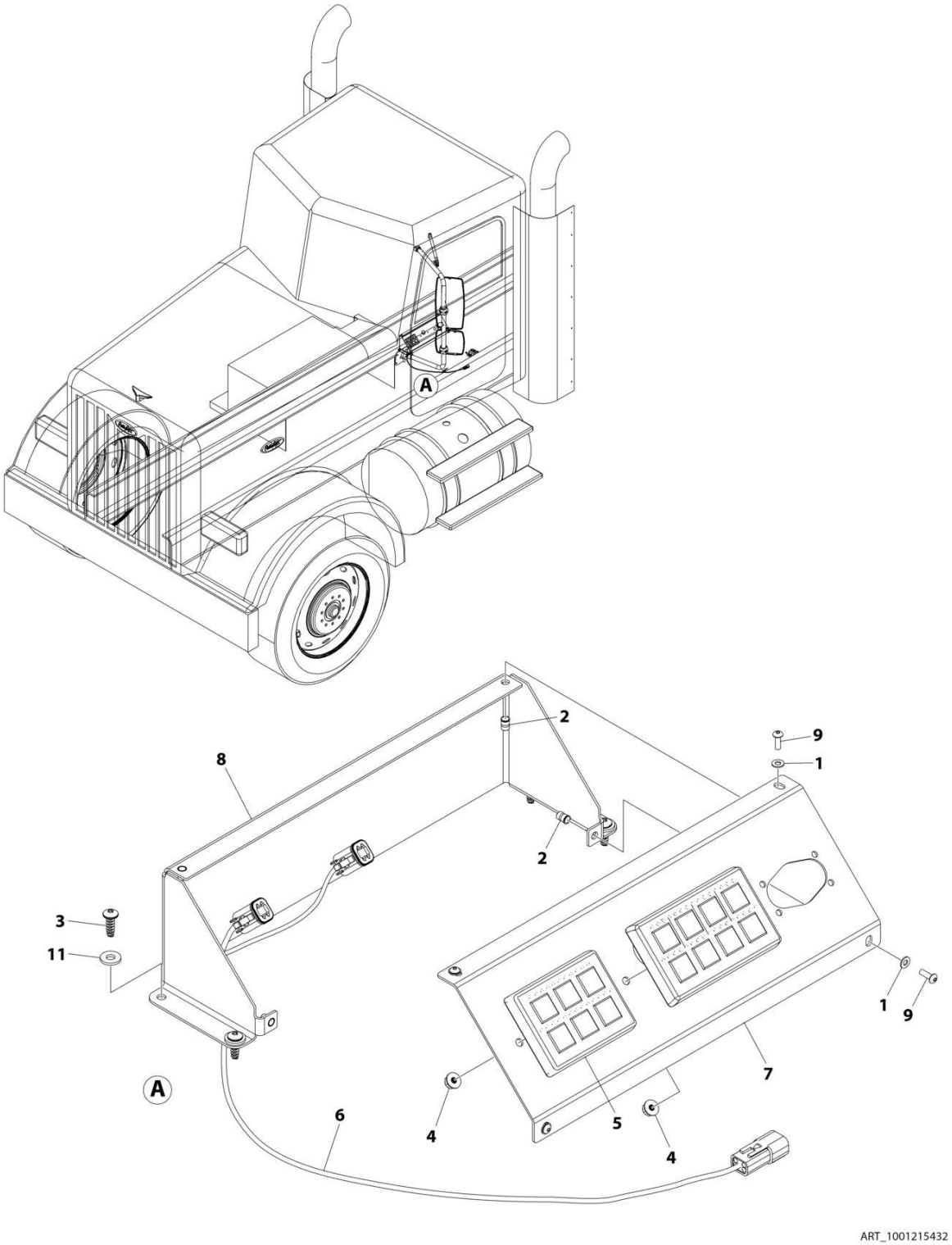


FIGURE 5-9. IN-CAB CONTROLS INSTALLATION - FLOOR MOUNTED WITH UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215432	Ref	CONTROLS (IN-CAB) INSTALLATION (FLOOR MOUNTED WITH UNDERLIFT)	B
1	1001097942	4	Washer #8	
2	1001151546	4	Nut #8	
3	1001194676	4	Screw 1/4 x 3/4	
4	1001209616	4	Nut #10	
5	1001288016	1	Keypad, Underlift	
6	1001215421	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
7	1001216315	1	Panel	
8	1001216316	1	Panel	
9	7114080418	4	Screw #8 x 1/2	
10	7894000004	6	Tie-Strap (Not Shown)	
11	7950140143	4	Washer 1/4	

FIGURE 5-10. IN-CAB CONTROLS INSTALLATION - KENWORTH T880 WITH UNDERLIFT

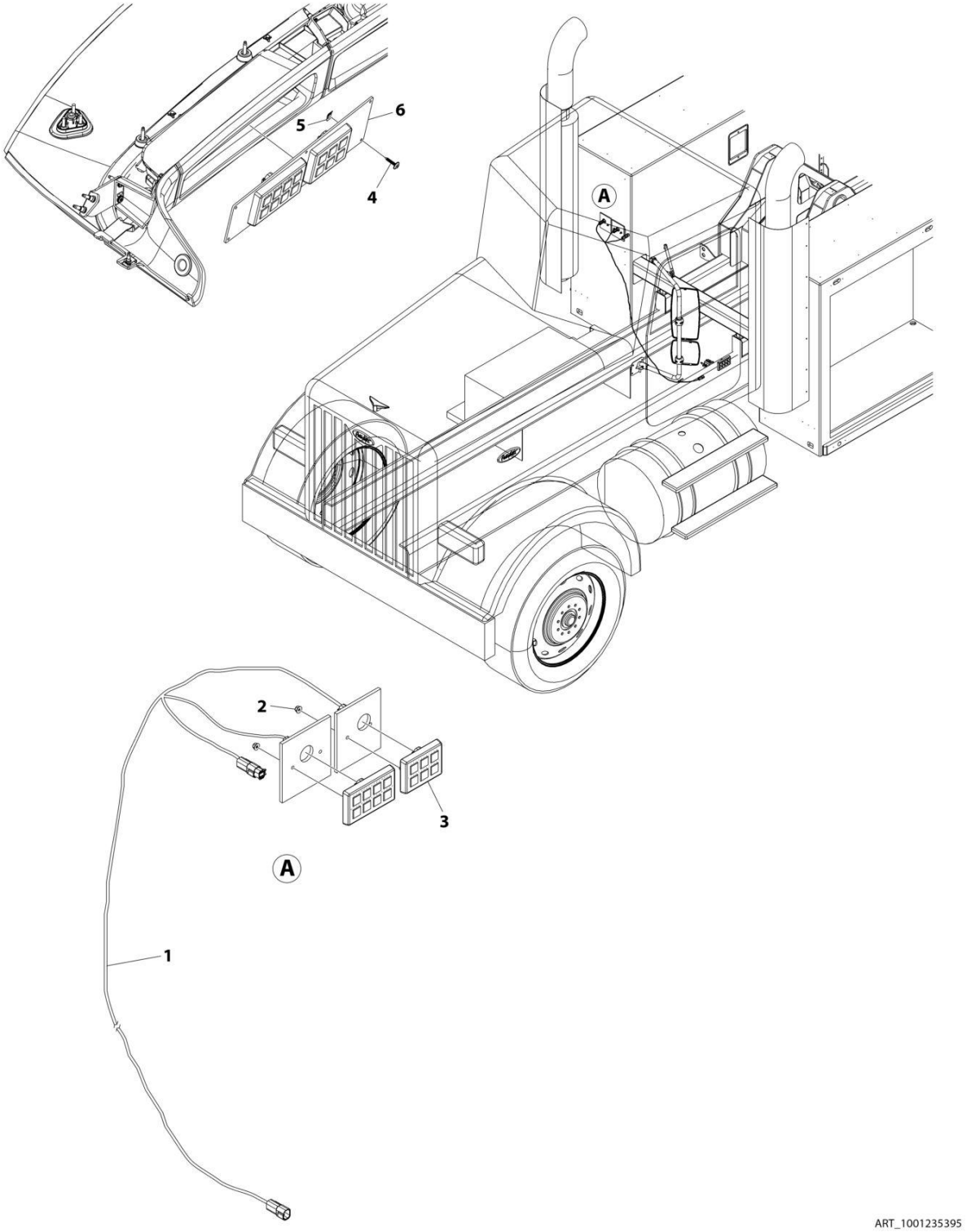


FIGURE 5-10. IN-CAB CONTROLS INSTALLATION - KENWORTH T880 WITH UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001235395	Ref	CONTROLS (IN-CAB) INSTALLATION (CONSOLE MOUNTED)	B
1	1001208976	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
2	1001209616	4	Nut #10	
3	1001288016	1	Keypad, Underlift	
4	1001232209	6	Screw #8	
5	1001232211	6	Nut #8	
6	1001235394	1	Support	
7	7894000004	7	Tie-Strap (Not Shown)	

FIGURE 5-11. IN-CAB CONTROLS INSTALLATION - PETERBILT 567 WITH UNDERLIFT

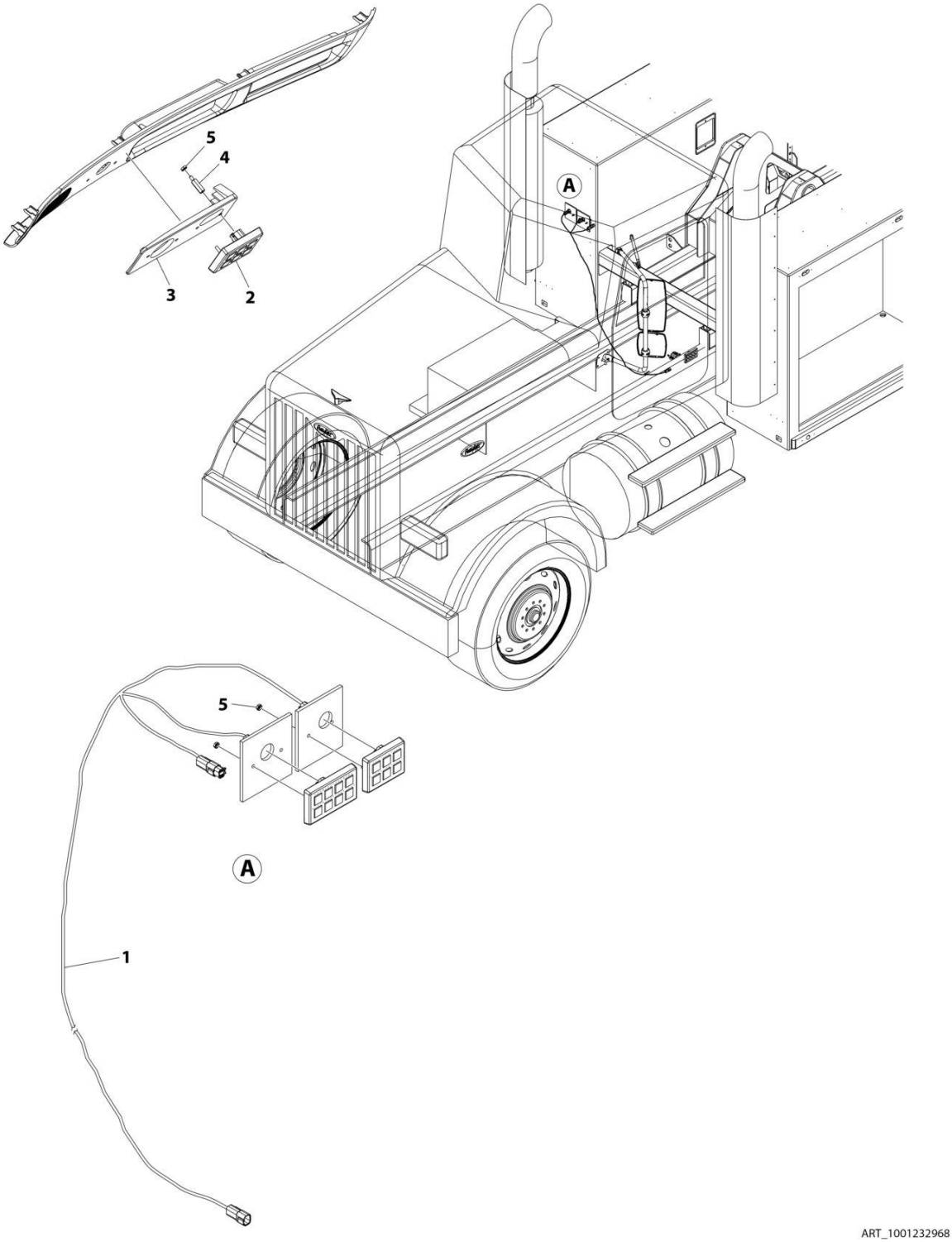


FIGURE 5-11. IN-CAB CONTROLS INSTALLATION - PETERBILT 567 WITH UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232968	Ref	CONTROLS (IN-CAB) INSTALLATION (CONSOLE MOUNTED)	B
1	1001208976	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
2	1001288016	1	Keypad, Underlift	
3	1001232956	1	Support	
4	1001234537	1	Stud	
5	7661000023	4	Nut #10	
6	7894000004	7	Tie-Strap (Not Shown)	

FIGURE 5-12. IN-CAB CONTROLS INSTALLATION - KENWORTH T440 & T800 & W9 WITHOUT UNDERLIFT

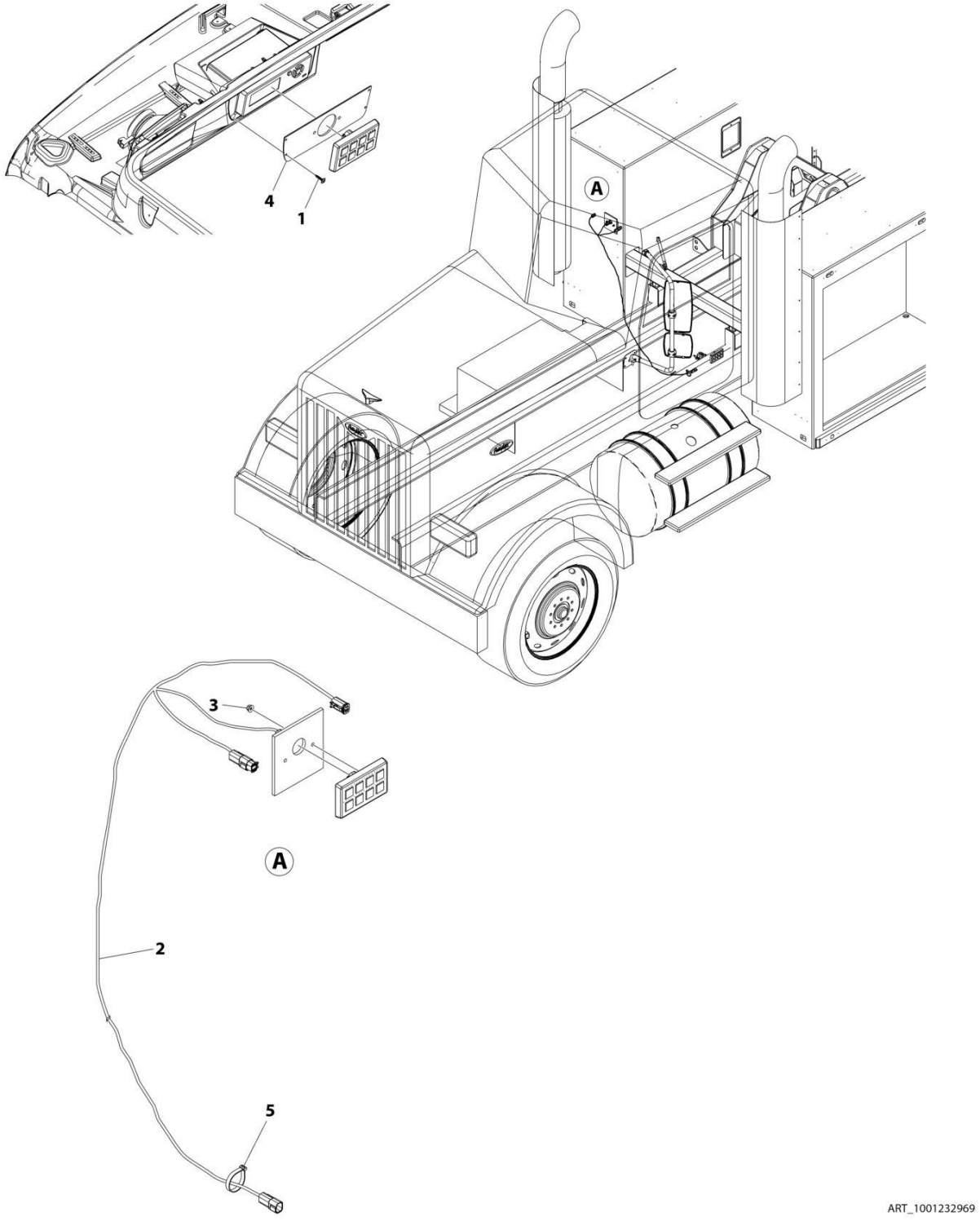


FIGURE 5-12. IN-CAB CONTROLS INSTALLATION - KENWORTH T440 & T800 & W9 WITHOUT UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232969	Ref	SWITCH PANEL KW T800, W9, T440, SINGLE LIGHTING INSTALLATION	B
1	1001232209	4	Screw #8	
2	1001208976	1	Harness (See Separate Breakdown in ELECTRICAL Section)	
3	1001209616	2	Nut #10	
4	1001232957	1	Support, Switch Panel	
5	7894000004	7	Tie Strap	

FIGURE 5-13. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 LOW ROOF WITHOUT UNDERLIFT

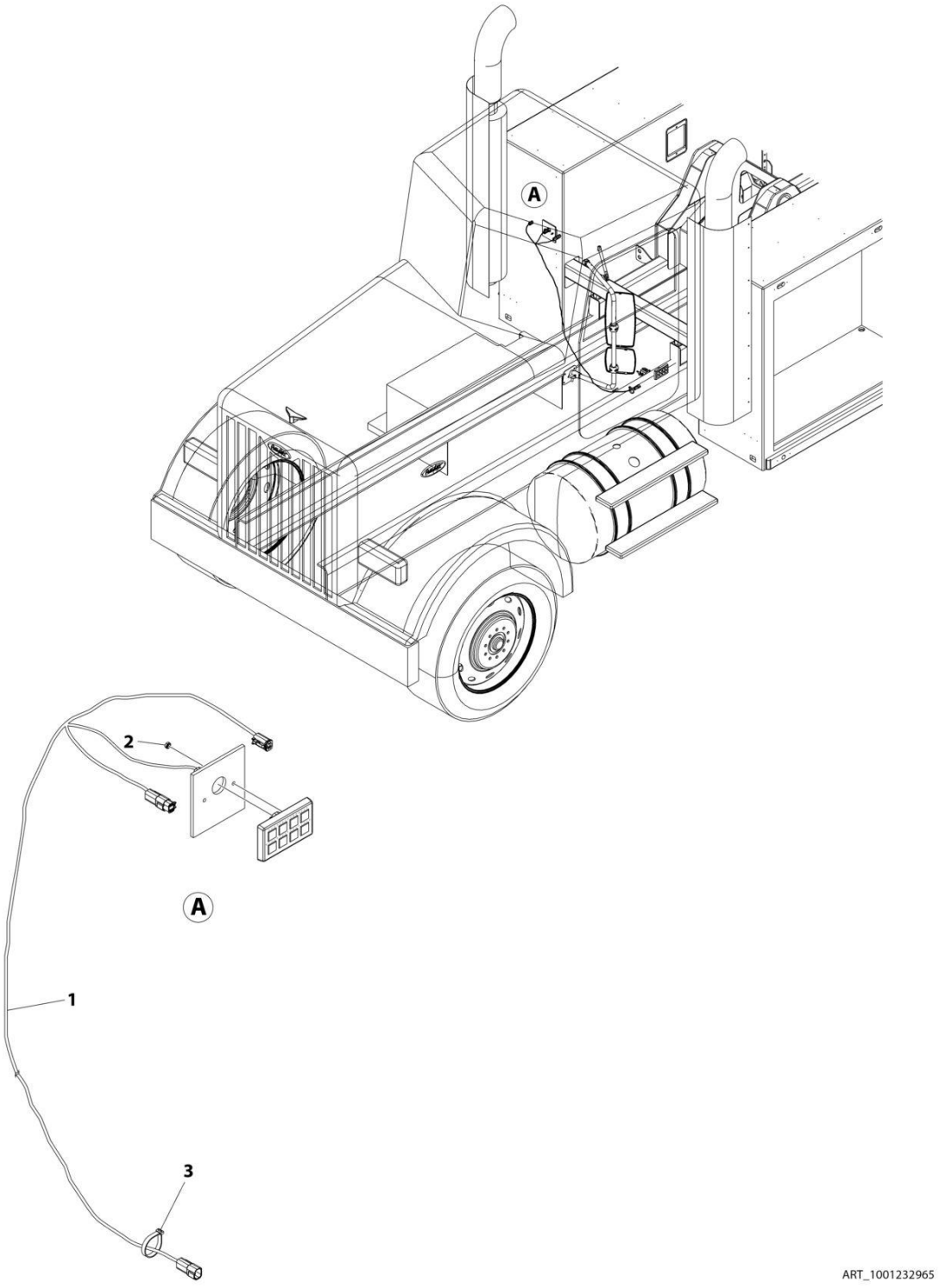


FIGURE 5-13. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 LOW ROOF WITHOUT UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232965	Ref	Switch Panel Pete 389 Low Single Lighting Installation	A
1	1001208976	1	Harness (See Separate Breakdown in ELECTRICAL Section)	
2	7661000023	2	Nut #10	
3	7894000004	7	Tie Strap	

FIGURE 5-14. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 HIGH ROOF WITHOUT UNDERLIFT

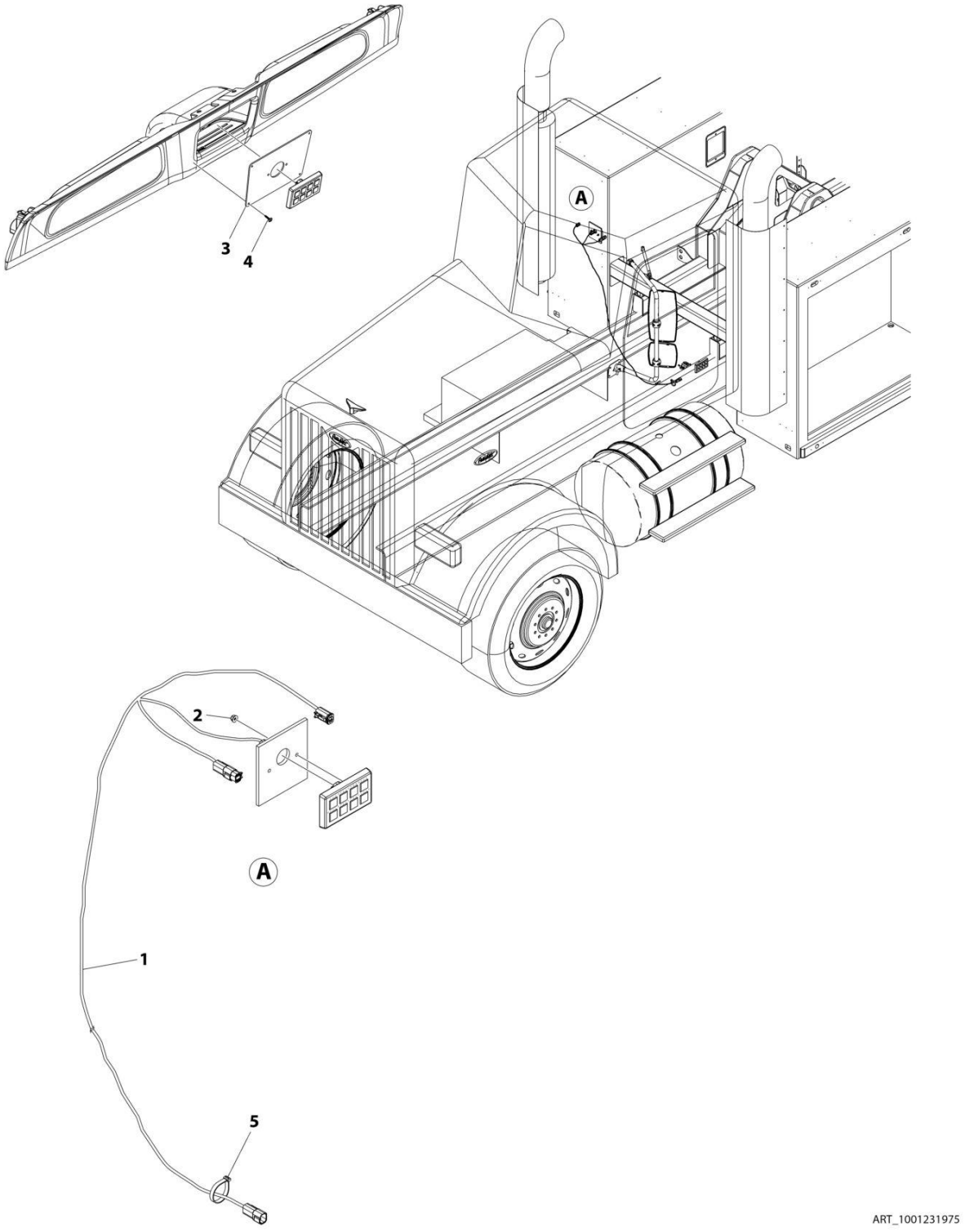


FIGURE 5-14. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 HIGH ROOF WITHOUT UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231975	Ref	Switch Panel Pete 389 High Single Lighting Installation	A
1	1001208976	1	Harness (See Separate Breakdown in ELECTRICAL Section)	
2	1001209616	2	Nut #10	
3	1001231974	1	Support, Switch Panel	
4	1001232209	4	Screw #8	
5	7894000004	7	Tie Strap	

FIGURE 5-15. IN-CAB CONTROLS INSTALLATION - KENWORTH T440 & T800 & W9 WITH UNDERLIFT

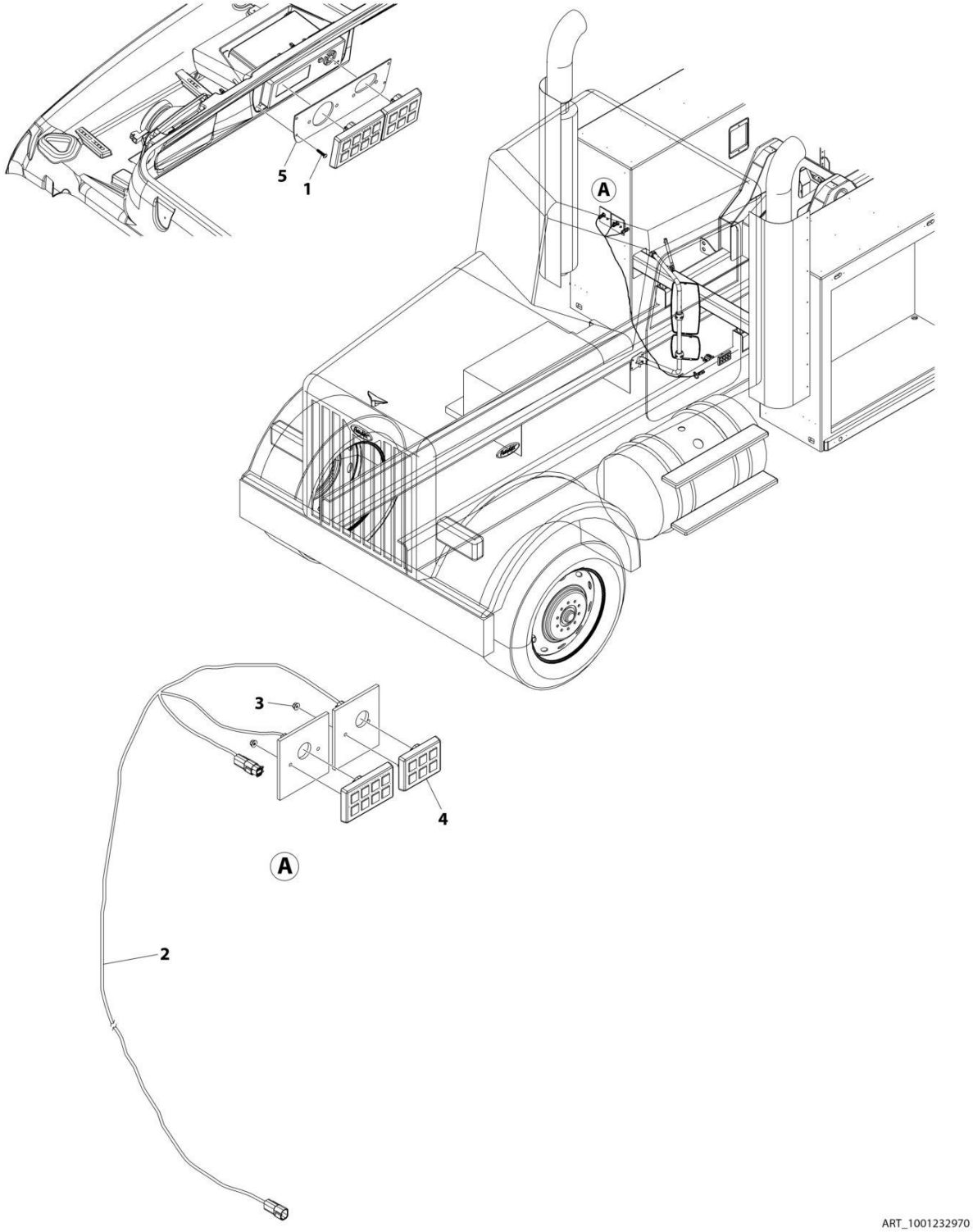


FIGURE 5-15. IN-CAB CONTROLS INSTALLATION - KENWORTH T440 & T800 & W9 WITH UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232970	Ref	CONTROLS (IN-CAB) INSTALLATION (CONSOLE MOUNTED)	B
1	1001196552	4	Screw #8 x 3/4	
2	1001208976	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
3	1001209616	4	Nut #10	
4	1001288016	1	Keypad, Underlift	
5	1001232958	1	Support	
6	7894000004	7	Tie-Strap (Not Shown)	

FIGURE 5-16. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 LOW ROOF WITH UNDERLIFT

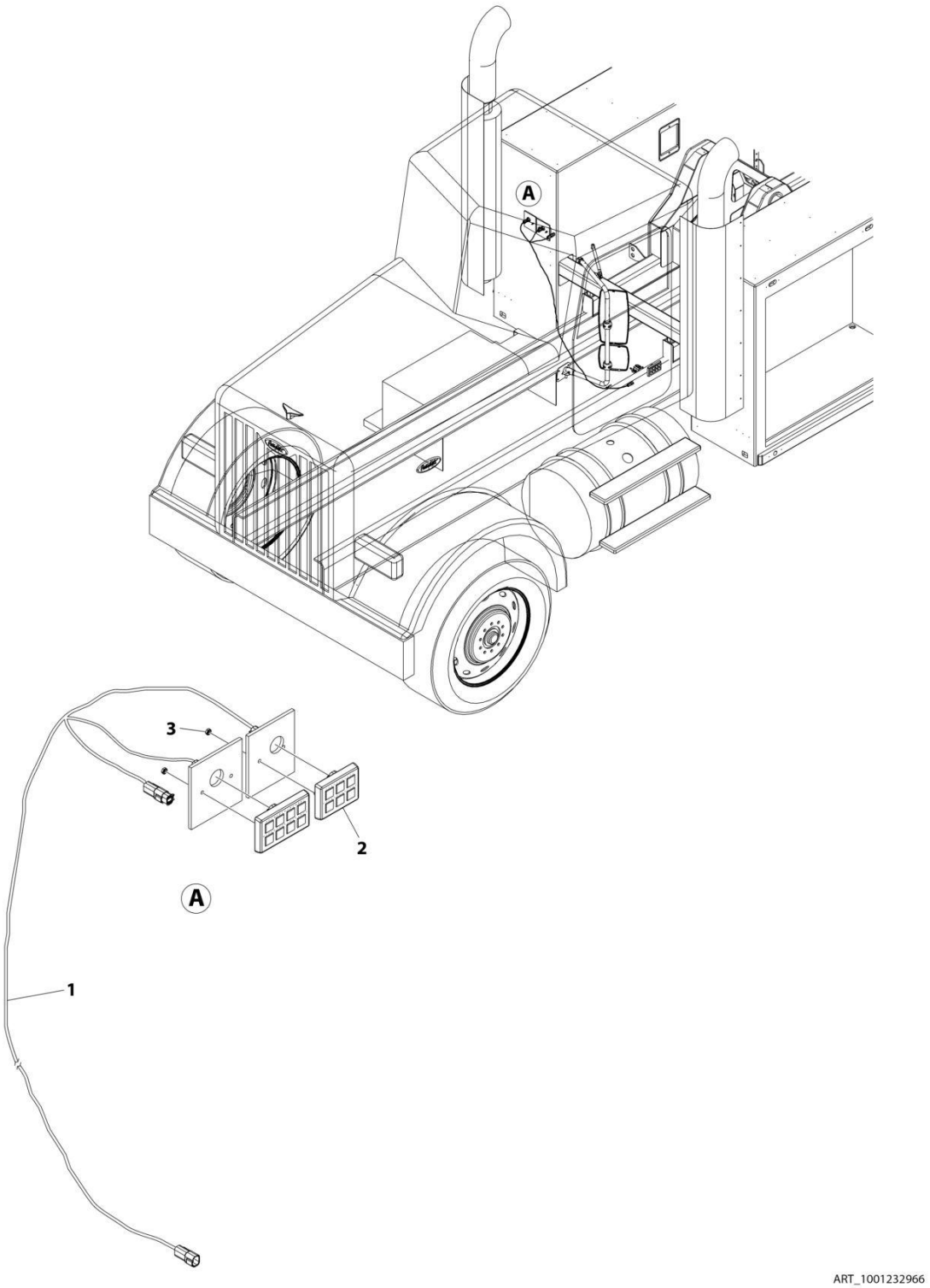


FIGURE 5-16. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 LOW ROOF WITH UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232966	Ref	CONTROLS (IN-CAB) INSTALLATION (CONSOLE MOUNTED)	B
1	1001208976	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
2	1001288016	1	Keypad, Underlift	
3	7661000023	4	Nut #10	
4	7894000004	7	Tie-Strap (Not Shown)	

FIGURE 5-17. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 HIGH ROOF WITH UNDERLIFT

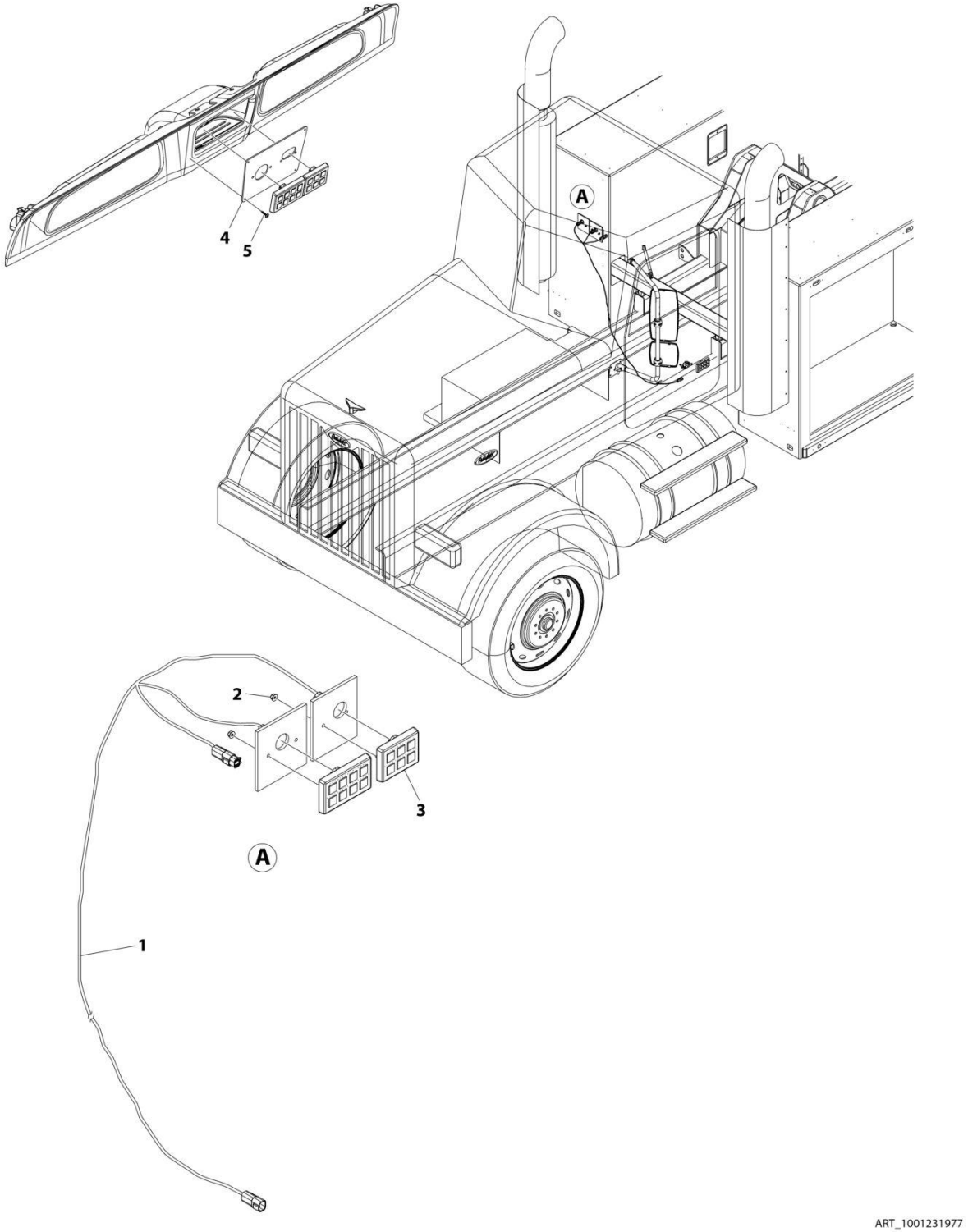
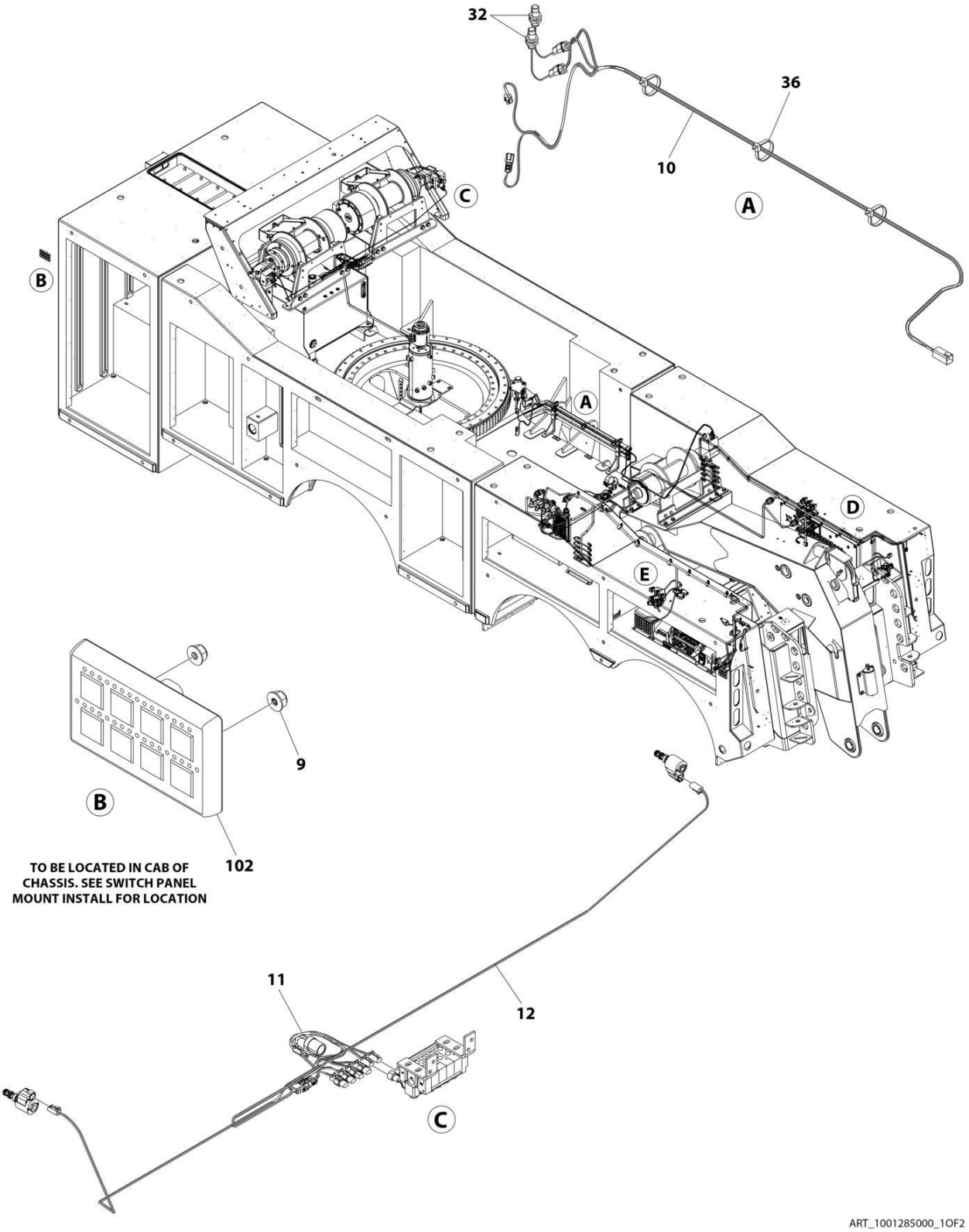


FIGURE 5-17. IN-CAB CONTROLS INSTALLATION - PETERBILT 389 HIGH ROOF WITH UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231977	Ref	CONTROLS (IN-CAB) INSTALLATION (CONSOLE MOUNTED)	B
1	1001208976	1	Multiplex In-Cab Control Harness (See Separate Breakdown in ELECTRICAL Section)	
2	1001209616	4	Nut #10	
3	1001288016	1	Keypad, Underlift	
4	1001231976	1	Support	
5	1001232209	4	Screw #8	
6	7894000004	7	Tie-Strap (Not Shown)	

FIGURE 5-18. MULTIPLEX ELECTRICAL INSTALLATION - WITH UNDERLIFT WINCH



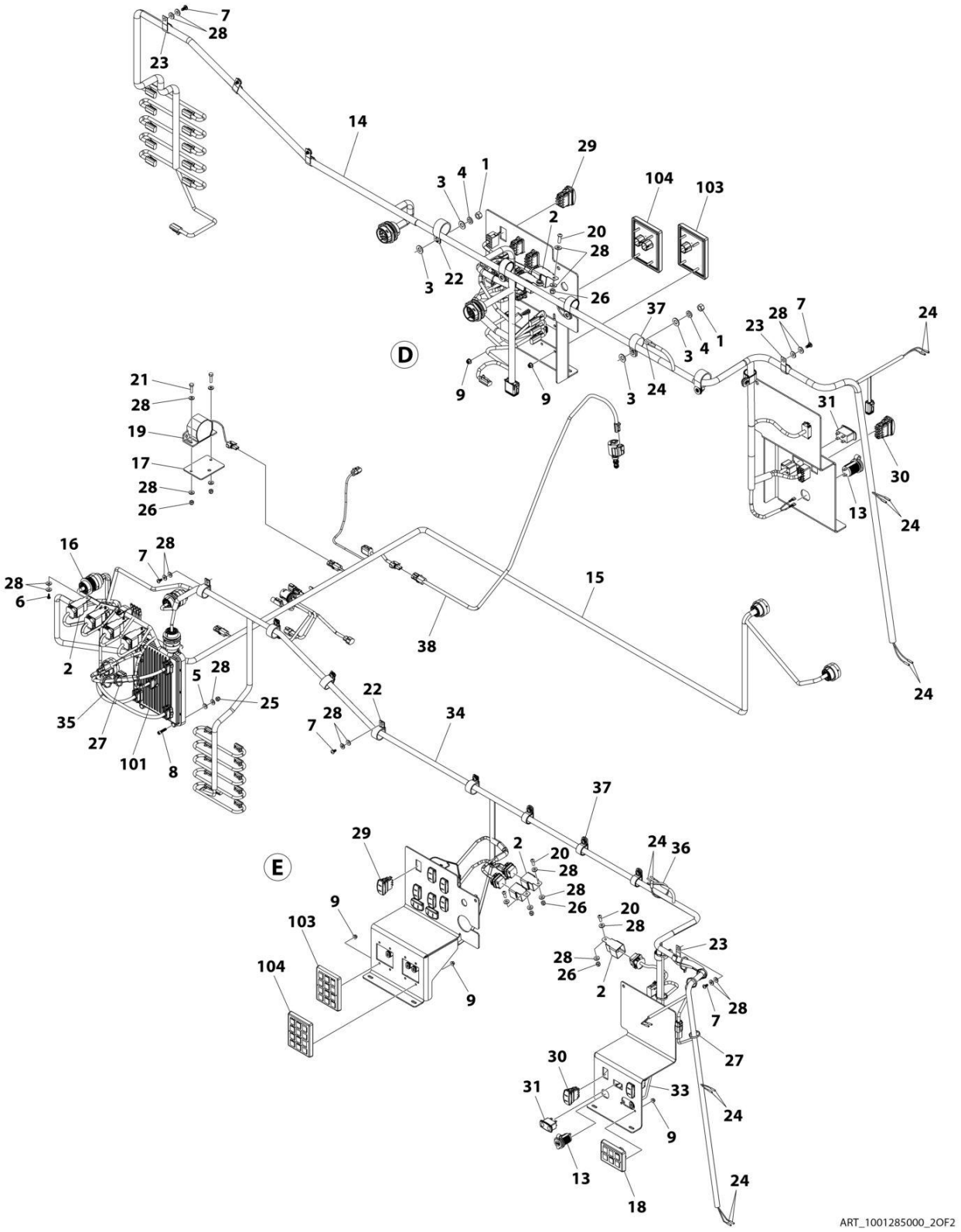

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FIGURE 5-18. MULTIPLEX ELECTRICAL INSTALLATION - WITH UNDERLIFT WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001285000	Ref	MULTIPLEX ELECTRICAL INSTALLATION - WITH UNDERLIFT WINCH	B
1	3311601	5	Nut 3/8	
2	3740080	9	Relay	
3	4711600	10	Washer 3/8	
4	4761600	5	Washer 3/8	
5	1001166978	4	Washer 1/4	
6	1001192958	4	Screw #10 x 1/2	
7	1001195257	16	Screw 1/4 x 1/2	
8	1001209590	4	Screw 1/4 x 1	
9	1001209616	20	Nut #10	
10	1001230518	1	Harness, Lock (See Separate Breakdown in this Section)	
11	1001231250	1	Harness, Freespool / 2 - SPD (See Separate Breakdown in this Section)	
12	1001231251	1	Harness, Main Winch 2 - Speed (See Separate Breakdown in this Section)	
13	1001253800	2	Terminal, USB	
14	1001260448	1	Harness, Multiplex Control (RH) (See Separate Breakdown in this Section)	
15	1001260449	1	Harness, Multiplex Crossover (See Separate Breakdown in this Section)	
16	1001260450	1	Harness, Multiple PDP to Crossover (LH) (See Separate Breakdown in this Section)	
17	1001263004	1	Plate	
18	1001288016	1	Keypad, Underlift	
19	7011000006	1	Alarm	
20	7114140618	5	Screw 1/4 x 3/4	
21	7114140850	2	Screw 1/4 x 1	
22	7274000041	8	Clamp	
23	7280000006	5	Clip	
24	7346000039	AR	Tubing	
25	7660142601	4	Nut 1/4	
26	7660142604	7	Nut 1/4	
27	7894000010	9	Tie-Strap	
28	7950140143	58	Washer 1/4	
29	1001136270	16	Switch, Rocker	
30	1001154073	3	Switch, Rocker	
31	1001154074	2	Plug, Illuminated	
32	1001170847	2	Sensor, Proximity	
33	1001209037	1	Harness, Rear Underlift Keypad (See Separate Breakdown in this Section)	
34	1001260447	1	Harness, Multiplex Control (LH) (See Separate Breakdown in this Section)	
35	1001260451	1	Harness, Multiplex Control to PDP (See Separate Breakdown in this Section)	
36	5526000553	25	Tie-Strap	
37	7274000105	8	Clamp	
38	1001209035	1	Harness, Drag Winch (See Separate Breakdown in this Section)	
100	1001258438	1	Kit, Touchlink Keypad	
101	1001258439	1	Module, Control Touchlink	
102	1001211001	1	Keypad, Lighting (Cab)	
103	1001211002	2	Keypad, Lighting (Body)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	1001211003	2	Keypad, Winch	

FIGURE 5-19. WIRELESS REMOTE CONTROL INSTALLATION

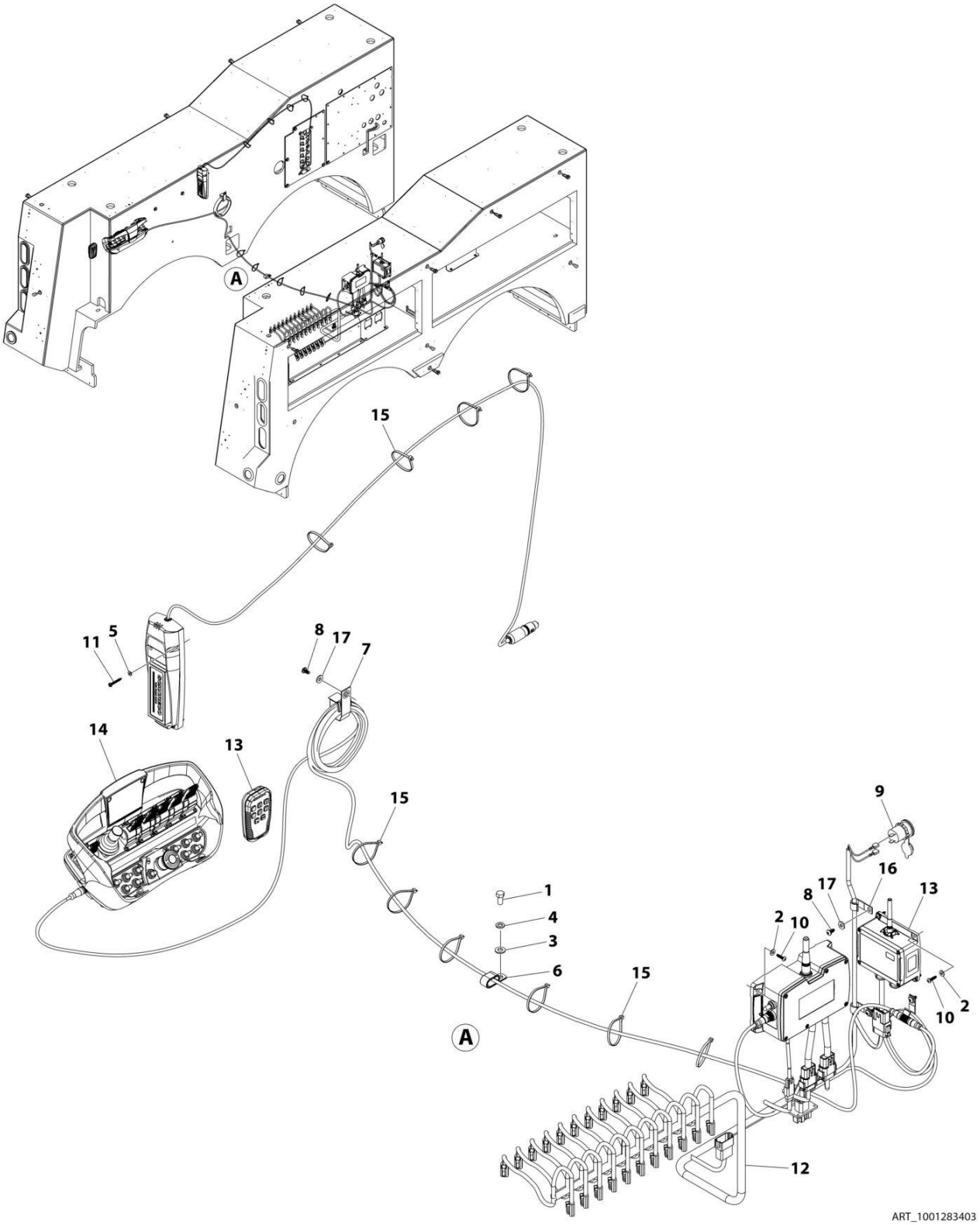
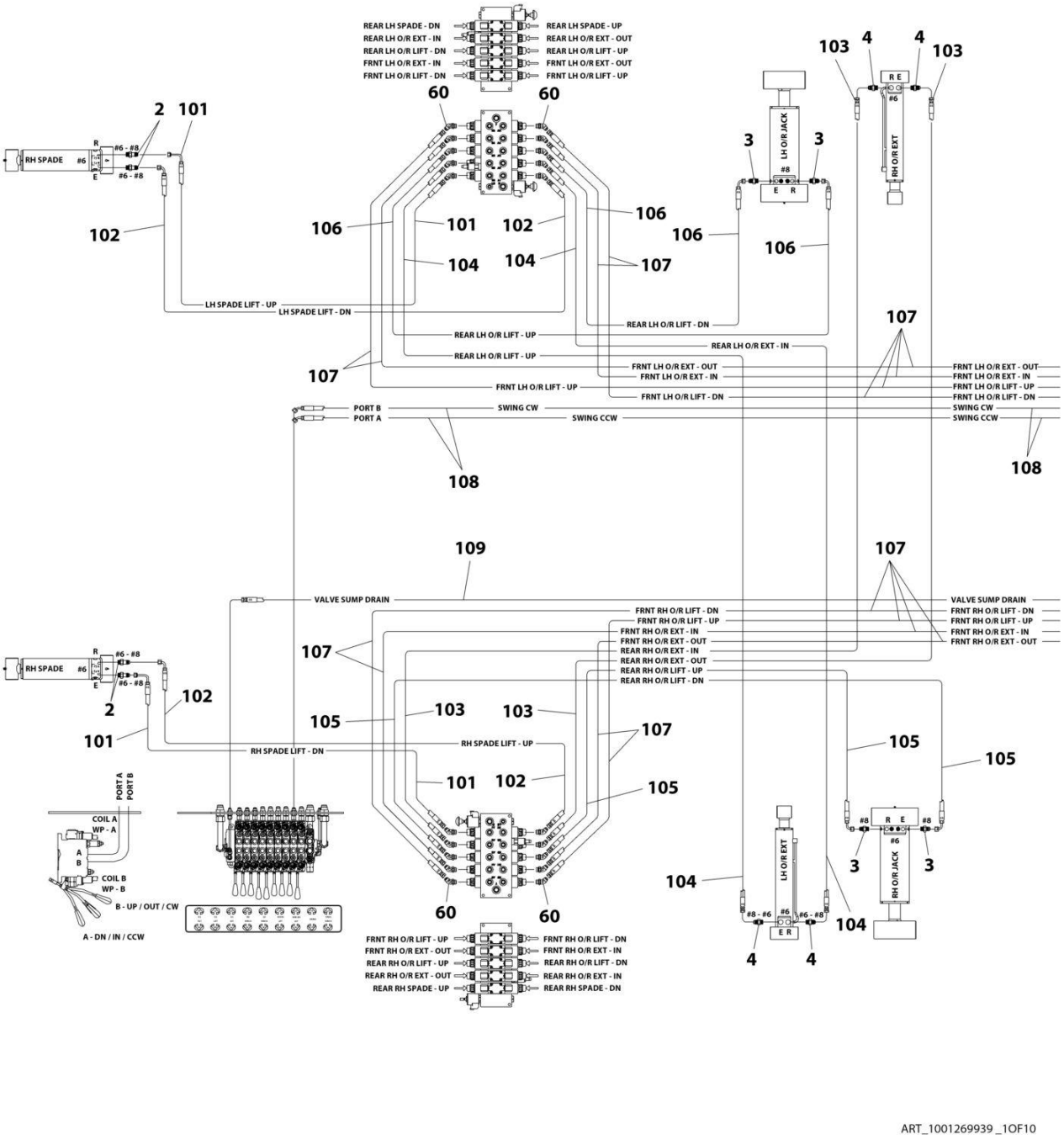


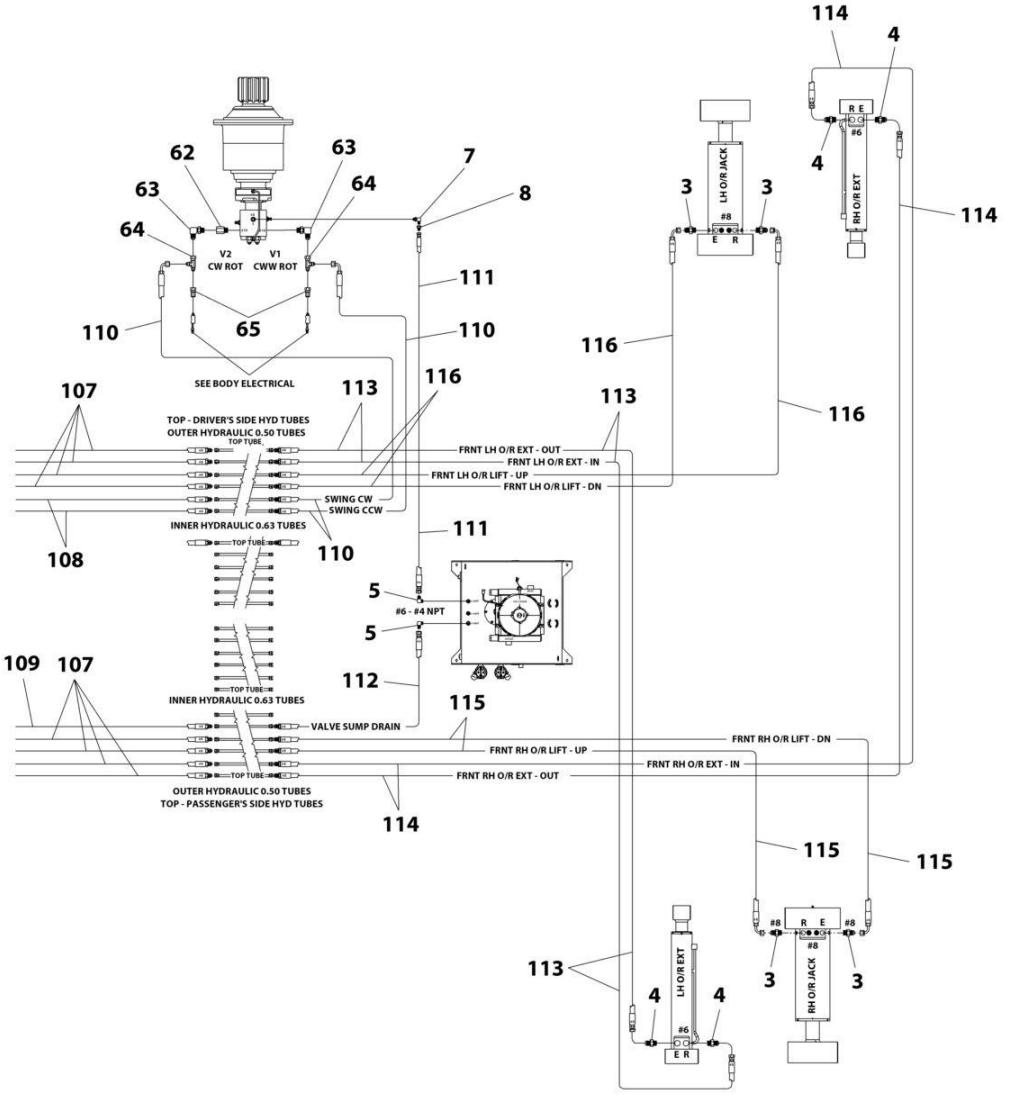
FIGURE 5-19. WIRELESS REMOTE CONTROL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001283403	Ref	WIRELESS REMOTE CONTROL INSTALLATION	A
1	0641606	1	Bolt 3/8 x 3/4	
2	4711000	8	Washer #10	
3	4711600	1	Washer 3/8	
4	4761600	1	Washer 3/8	
5	1001097942	4	Washer #8	
6	1001116792	1	Clamp	
7	1001167286	1	Tie-Strap	
8	1001195257	4	Screw 1/4 x 1/2	
9	1001201384	1	Socket, Electrical	
10	1001230068	8	Screw #10 x 3/4	
11	1001232116	4	Screw #8 x 1-1/4	
12	1001272075	1	Harness, Remote Controls (See Separate Breakdown in ELECTRICAL Section)	
13	1001283315	1	Control - Remote 6 Function	
13	1001284964	1	Transmitter	
13	1001283419	1	Receiver	
14	1001285152	1	Control, 16 Function Remote (See Separate Breakdown in this Section)	
15	5526000553	10	Tie-Strap	
16	7280000006	3	Clip	
17	7950140143	4	Washer 1/4	

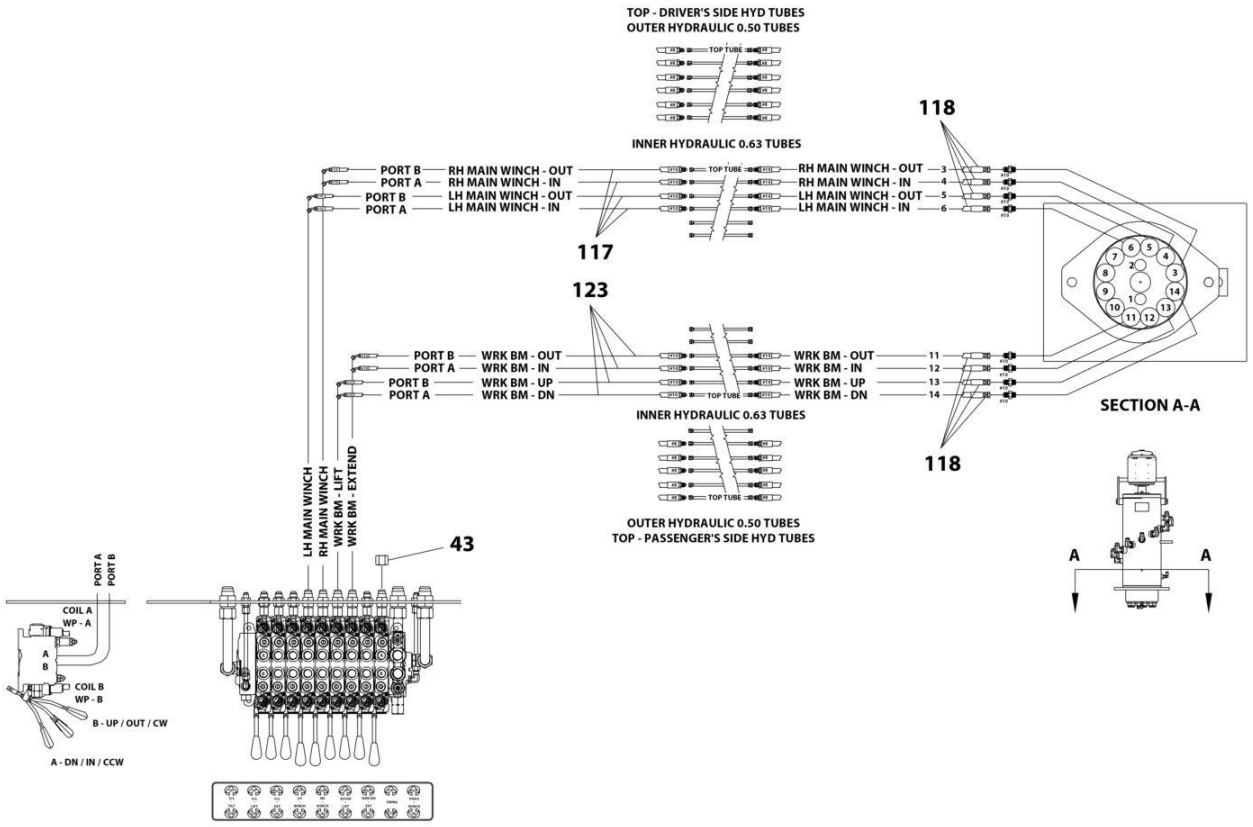
SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC FITTING INSTALLATION

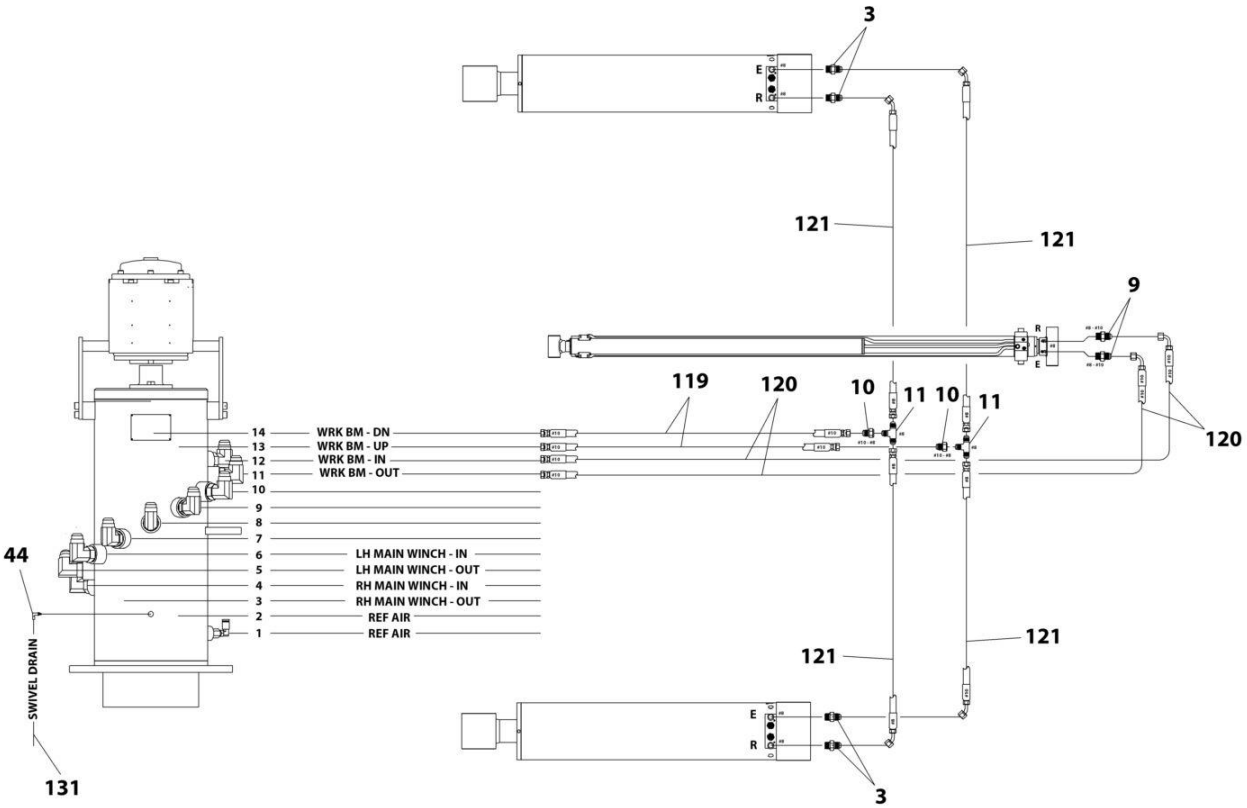




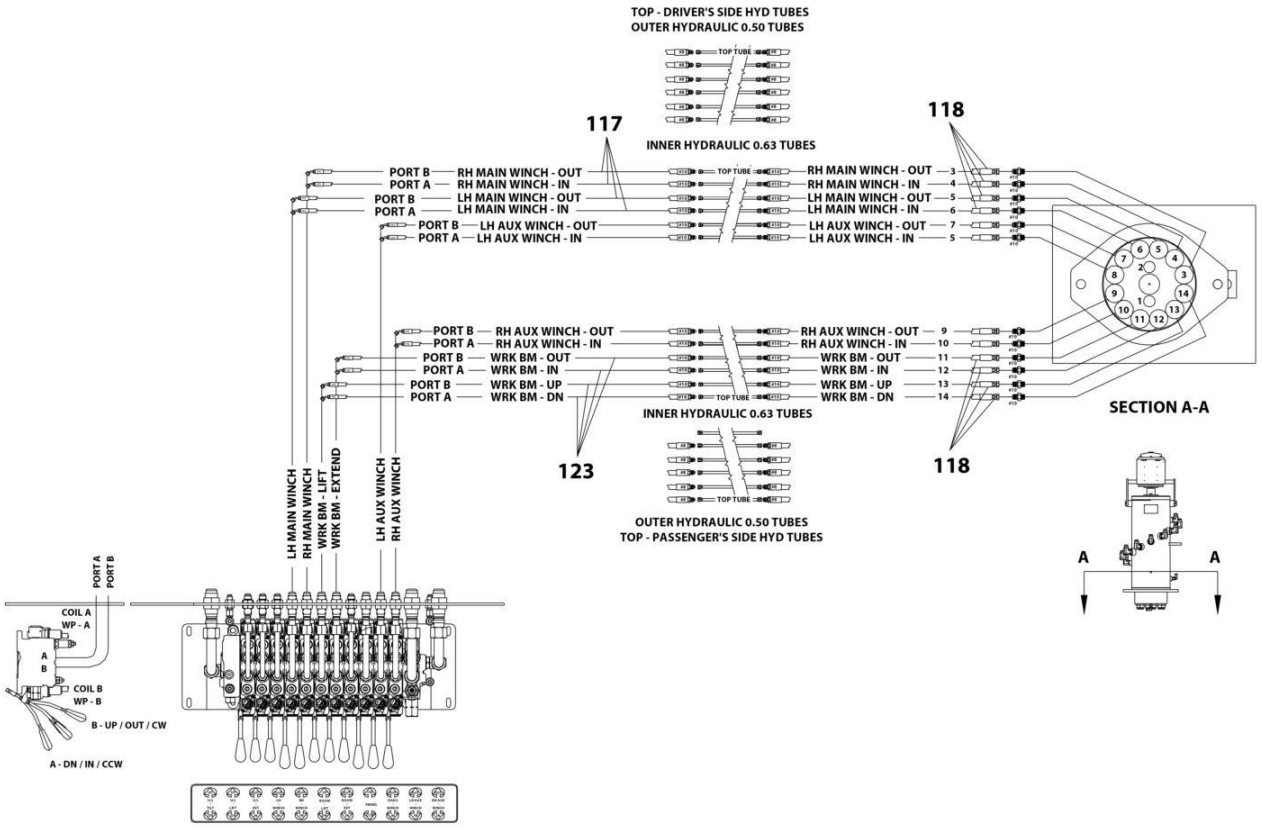
ART_1001269939_2OF10



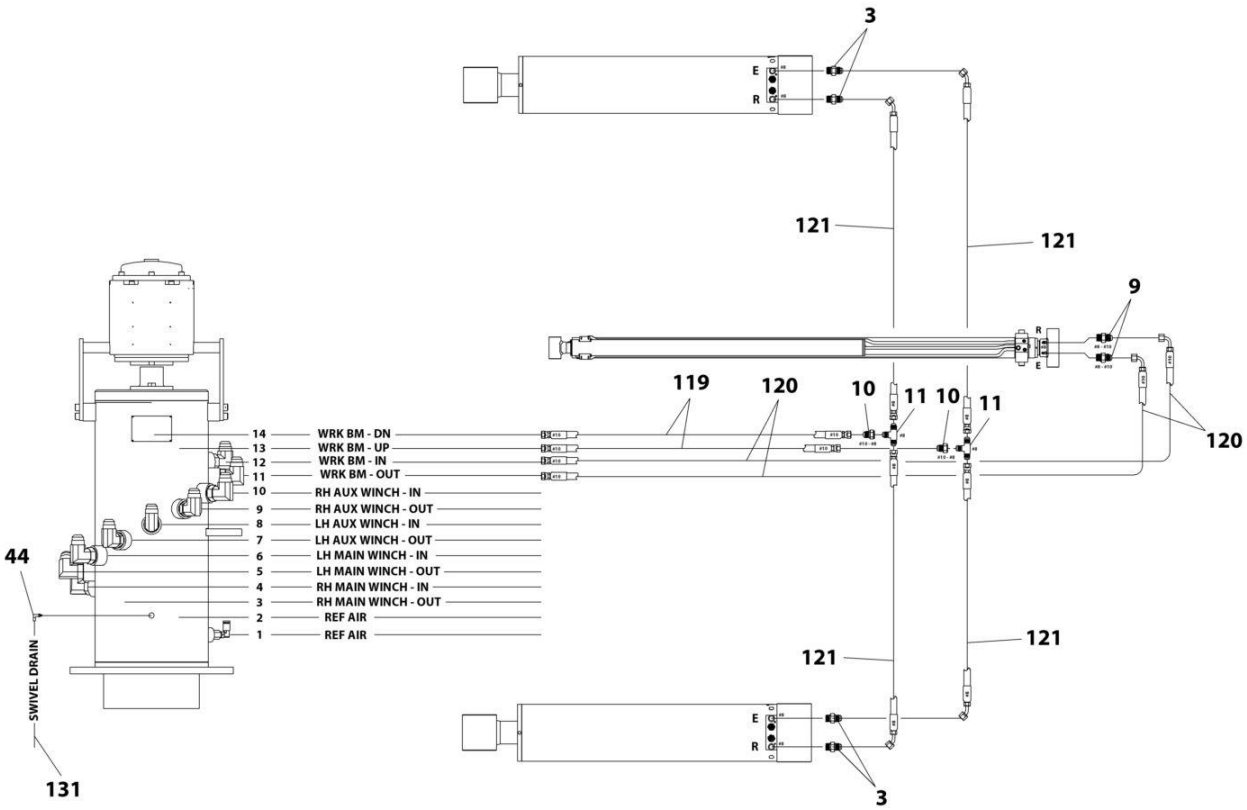
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ART_1001269939_4OF10

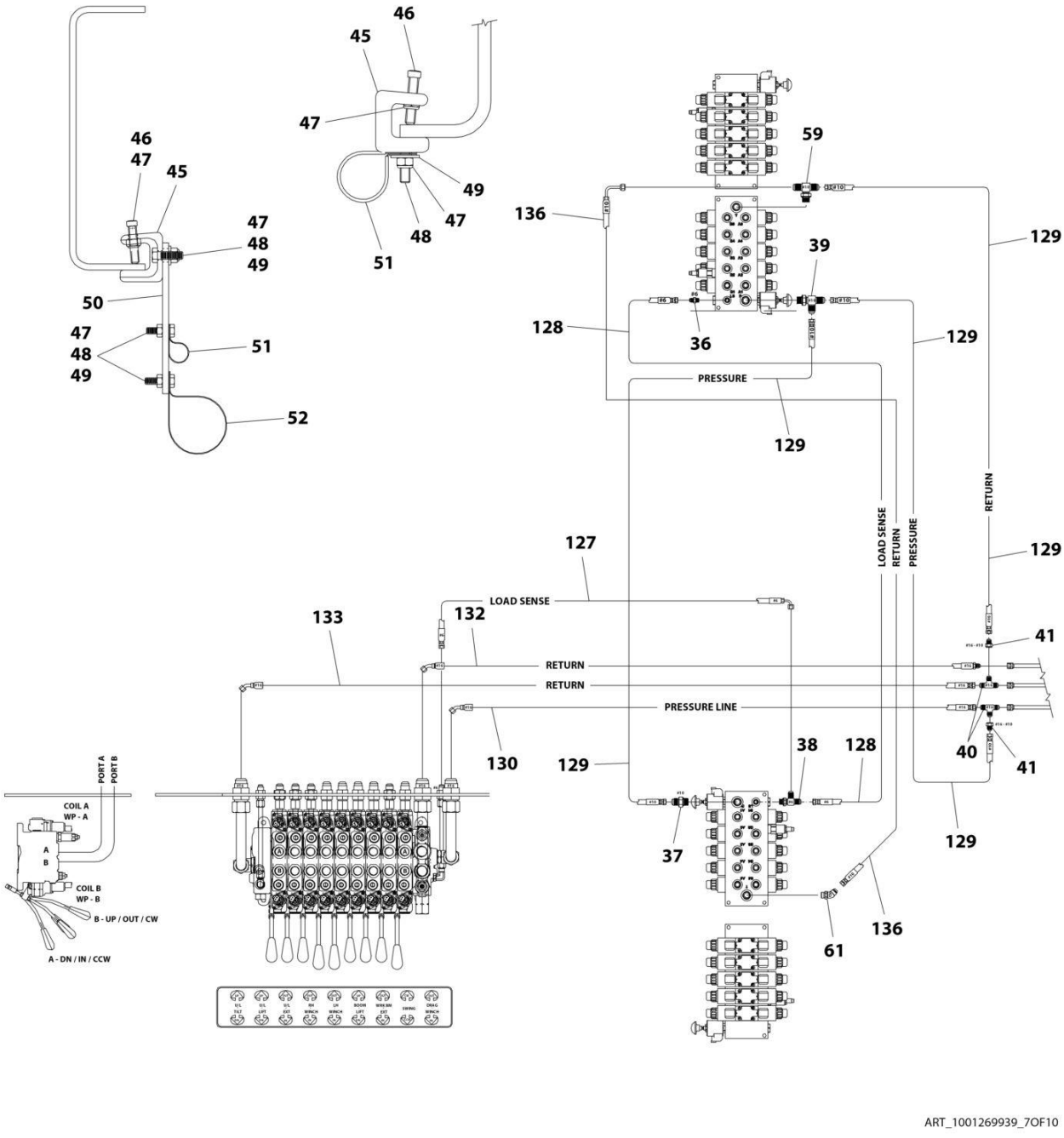


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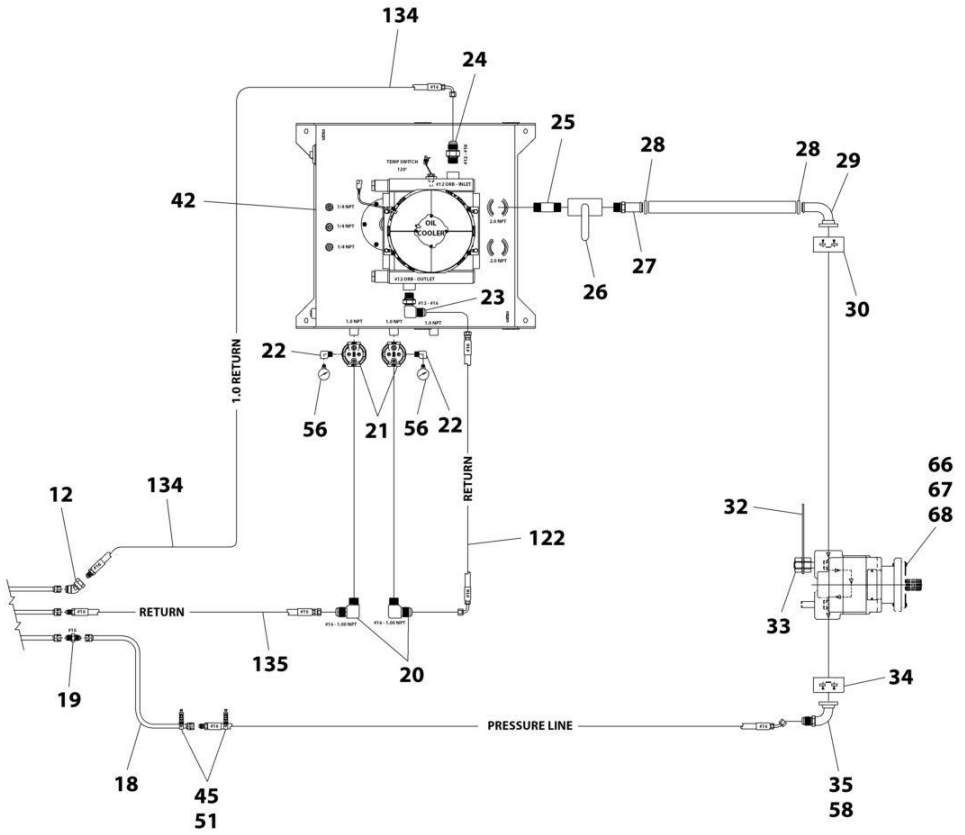


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SECTION 6 - HYDRAULIC

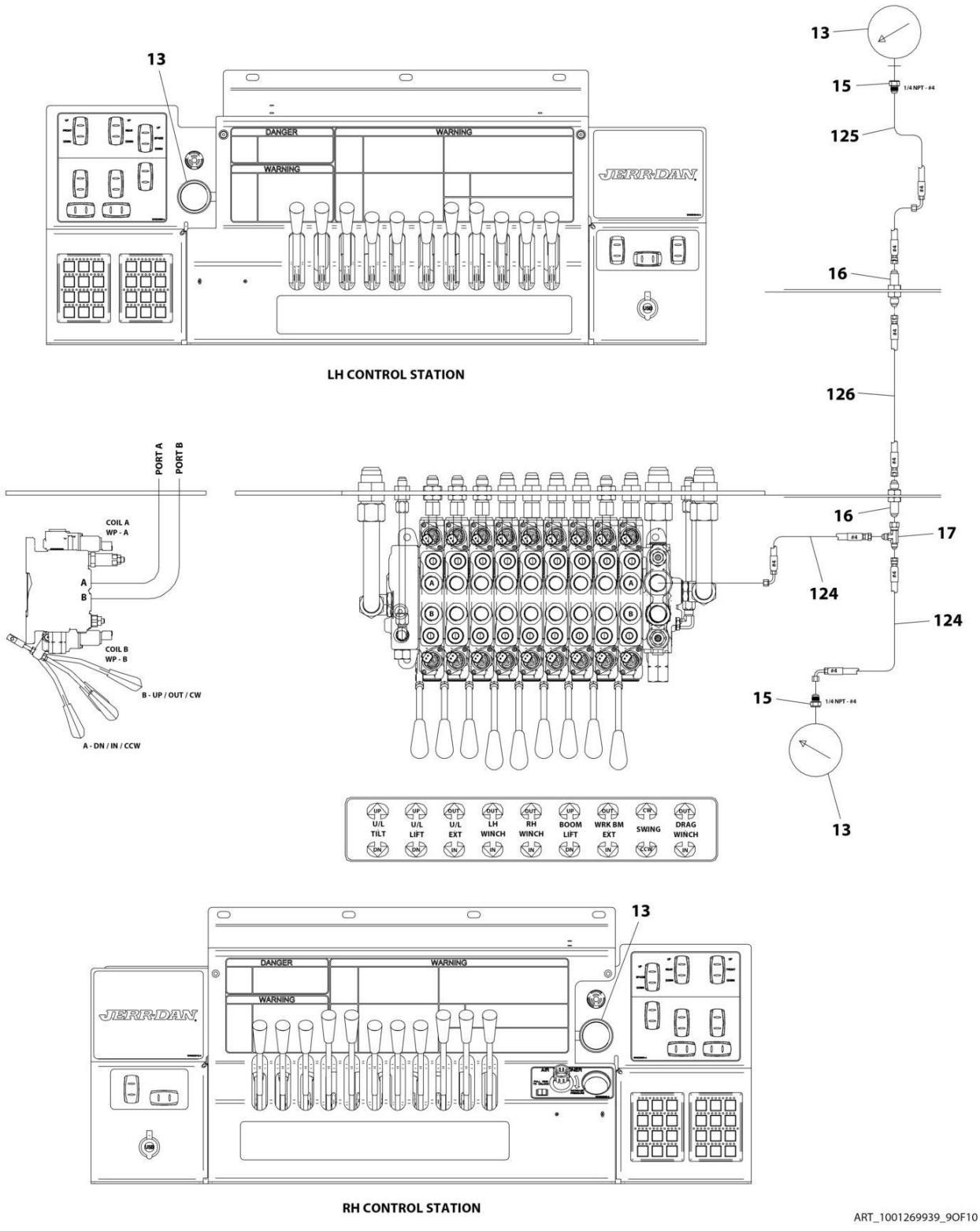


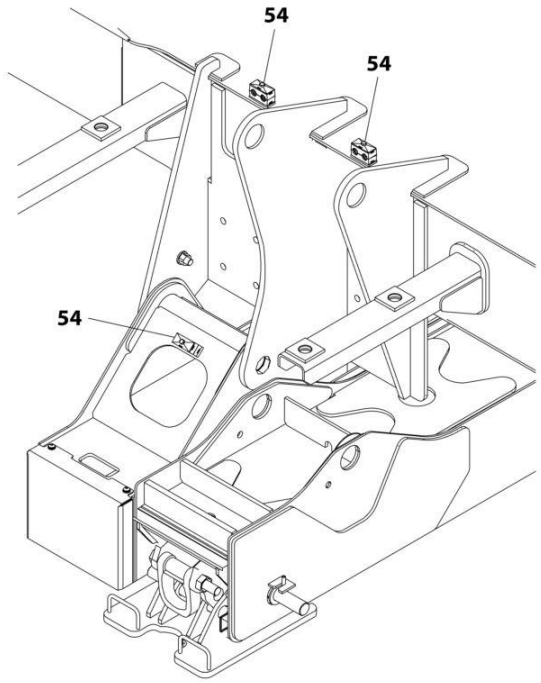
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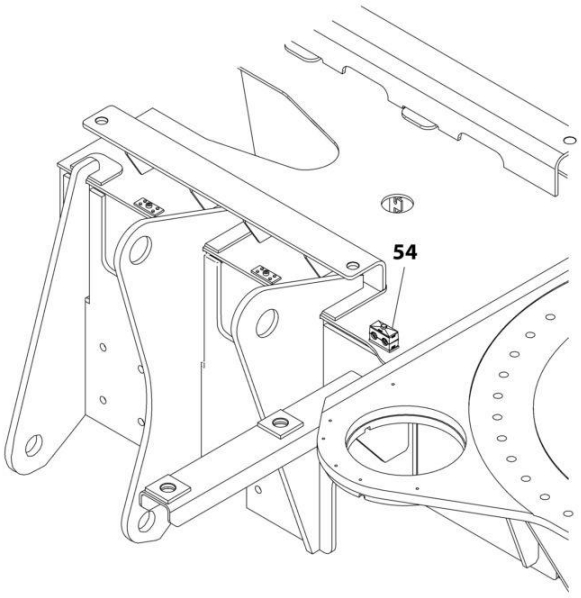


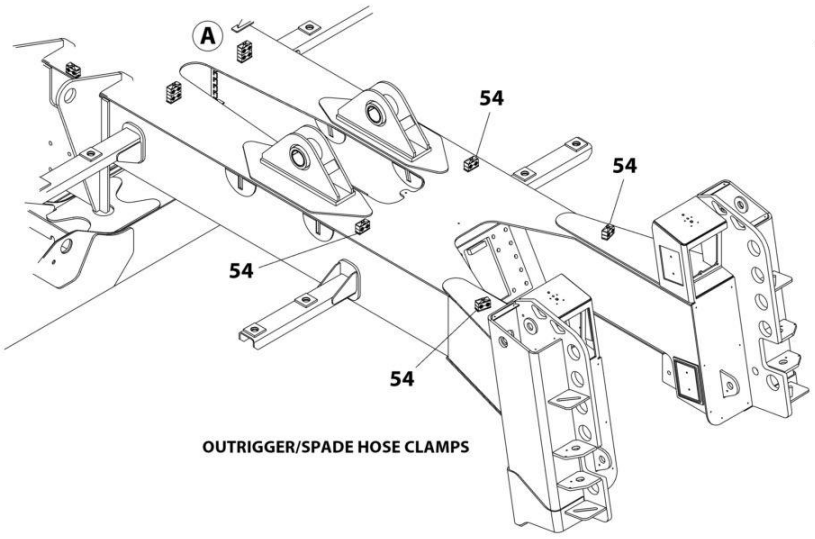
ART_1001269939_8OF10

SECTION 6 - HYDRAULIC

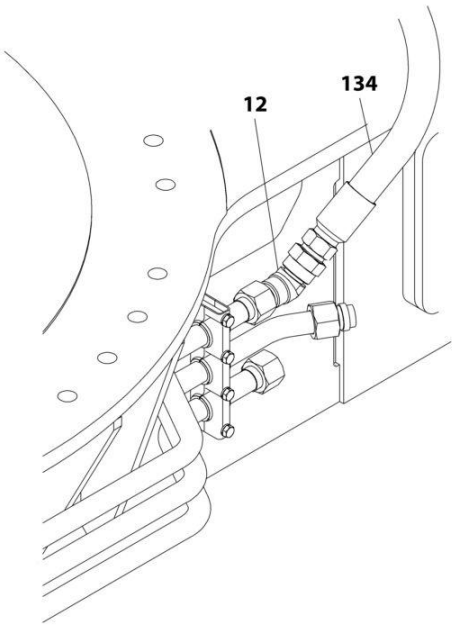




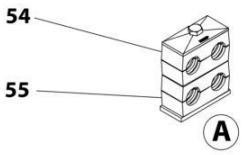




OUTRIGGER/SPADE HOSE CLAMPS



HYDRAULIC RETURN LINES



ART_1001269939_10OF10

SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC FITTING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001269939	Ref	HYDRAULIC FITTING INSTALLATION	C
1	1001224572	1	Kit, Hose (Includes Items 101-136)	
2	7445080644	4	Fitting, Straight	
3	7445080843	12	Fitting, Straight	
4	7445080643	8	Fitting, Straight	
4	2220474	8	Fitting, 90	
5	2220773	2	Fitting, 90	
7	2220775	1	Fitting, 90	
8	7443000108	1	Restrictor	
9	7445100843	2	Fitting, Straight	
10	7445081039	2	Fitting, Straight	
11	7445080837	2	Union, Tee	
12	8760273	1	Fitting, 45	
13	7470000023	2	Gauge	
16	7445040425	2	Union, Bulkhead	
17	7443000408	1	Fitting, Tee	
18	1001131302	1	Pipe, Pressure Tube	
19	7445161622	1	Union, Straight	
20	7445161620	2	Fitting, 90	
21	7430000004	2	Filter Assembly	
22	7443000158	2	Fitting, 90	
23	7445161245	1	Fitting, 90	
24	7445161243	1	Fitting, Straight	
25	1001130611	1	Pipe	
26	1001130610	1	Ball Valve	
27	1001130597	1	Hose Insert	
28	1001130587	2	T-bolt Clamp	
29	1001130607	1	Fitting, 90	
30	1001130608	1	Flange	
31	7819000005	1	Hose (Not Shown)	
32	4178000349	1	Bracket	
33	7660200200	2	Nut 5/8	
34	1001130609	1	Flange	
35	1001130589	AR	Fitting, 90	
36	7445060643	1	Fitting, Straight	
37	7445101043	1	Fitting, Straight	
38	7445060648	1	Fitting, Tee	
39	2221051	1	Fitting, Tee	
40	7445161637	2	Fitting, Tee	
41	7443000258	2	Fitting, Straight	
42	1001163274	Ref	Hydraulic Tank Installation (See Separate Breakdown in this Section)	
43	7445101018	6	Fitting, Cap Nut	
44	7443000173	1	Fitting, 45	
45	7274000076	8	Clamp	
46	7785152420	8	Screw 5/16 x 1-1/2	
47	7660152601	22	Nut 5/16	
48	7115151050	14	Bolt 5/16 x 1-1/4	
49	7950150161	14	Washer 5/16	
50	4706003844	6	Plate	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	1001137048	5	Clamp	
52	1001137049	3	Clamp	
53	7894000004	50	Tie-Strap (Not Shown)	
54	1001137052	19	Clamp	
55	1001143937	2	Clamp	
56	7470000002	2	Gauge	
57	7445080818	4	Fitting, Cap Nut (Not Shown)	
58	1001220854	AR	Fitting, Straight	
59	2221049	1	Fitting, Tee	
60	2220500	20	Fitting, 45	
61	2221050	1	Fitting, 45	
62	8770197	1	Fitting, Straight	
63	7445081045	2	Fitting, 90	
64	2220385	2	Fitting, Tee	
65	1001269992	2	Fitting, Straight	
66	7660180000	4	Nut 1/2	
67	7865182065	4	Stud 1/2 x 2-1/2	
68	7950180000	4	Washer 1/2	
	1001224572	Ref	HOSE KIT	
101	1001136814	2	Hose	
102	1001136817	2	Hose	
103	4567130135	2	Hose	
104	1001136821	2	Hose	
105	1001136824	2	Hose	
106	4567132085	2	Hose	
107	4569140046	8	Hose	
108	1001164084	2	Hose	
109	1001164087	1	Hose	
110	1001136841	2	Hose	
111	4567120069	1	Hose	
112	4570000361	1	Hose	
113	1001136843	2	Hose	
114	1001136844	2	Hose	
115	1001136845	2	Hose	
116	1001136846	2	Hose	
117	1001164055	4	Hose	
118	4569160030	8	Hose	
119	4567150016	2	Hose	
120	1001136861	2	Hose	
121	1001136876	4	Hose	
122	4567182031	1	Hose	
123	1001136851	4	Hose	
124	4567112024	2	Hose	
125	4567112038	1	Hose	
126	4567110065	1	Hose	
127	1001164143	1	Hose	
128	4567120071	1	Hose	
129	1001136891	3	Hose	
130	1001164090	1	Hose	
131	7565000016	1.5 ft	Hose	
132	1001164104	1	Hose	

SECTION 6 - HYDRAULIC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
133	1001164101	1	Hose	
134	1001136960	1	Hose	
135	1001162803	1	Hose	
136	1001224576	1	Hose	

FIGURE 6-2. HYDRAULIC HOSE INSTALLATION - DRAG WINCH

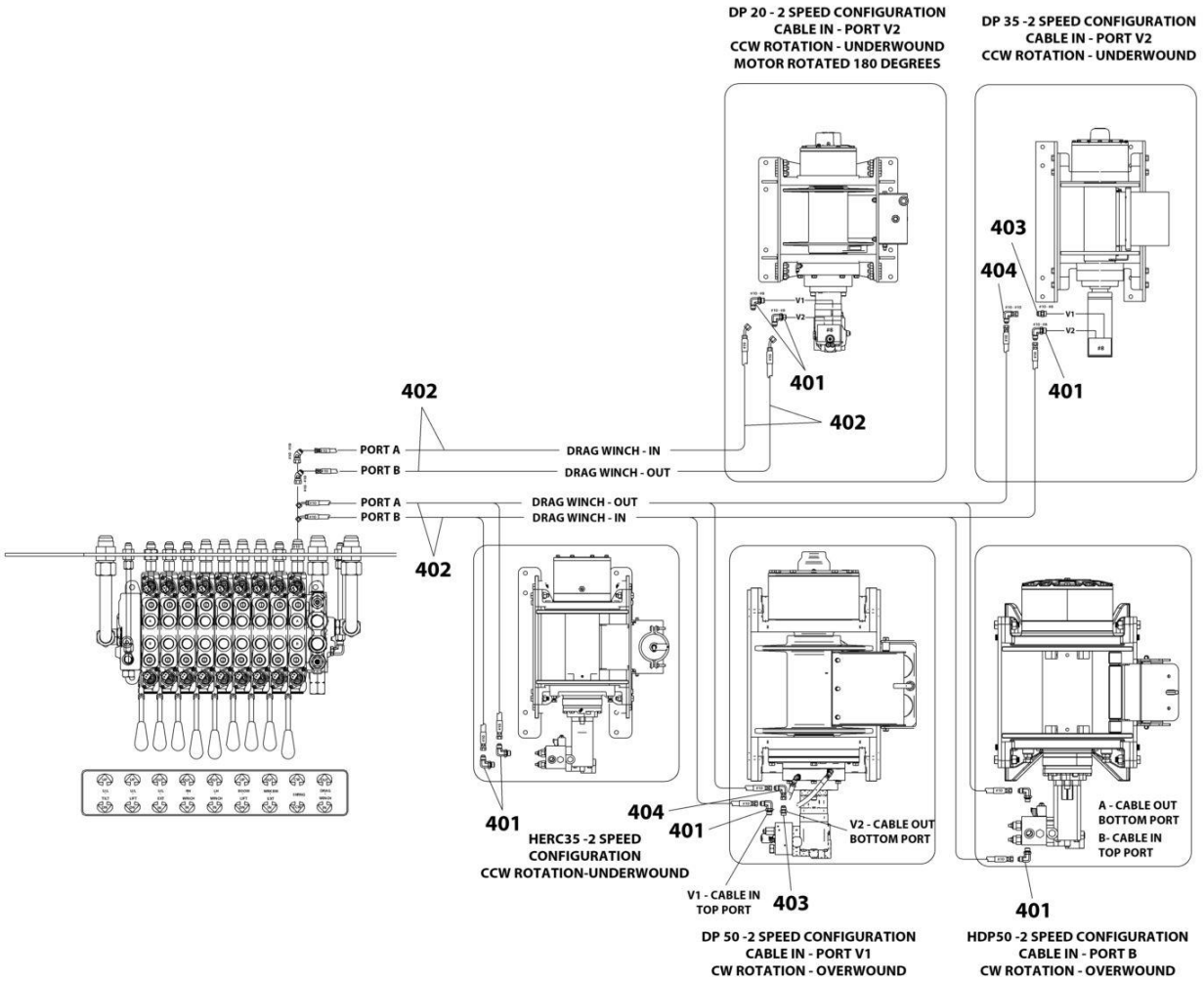


FIGURE 6-2. HYDRAULIC HOSE INSTALLATION - DRAG WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166518	Ref	HYDRAULIC HOSE INSTALLATION - DRAG WINCH	C
401	7445100845	1	Fitting, 90 JIC (M)/O (M)	
402	1001164083	2	Hose	
403	7445100843	1	Fitting, Straight JIC (M)/O (M)	
404	2220973	1	Fitting, 90 JIC/FSJIC	

FIGURE 6-3. HYDRAULIC TANK INSTALLATION

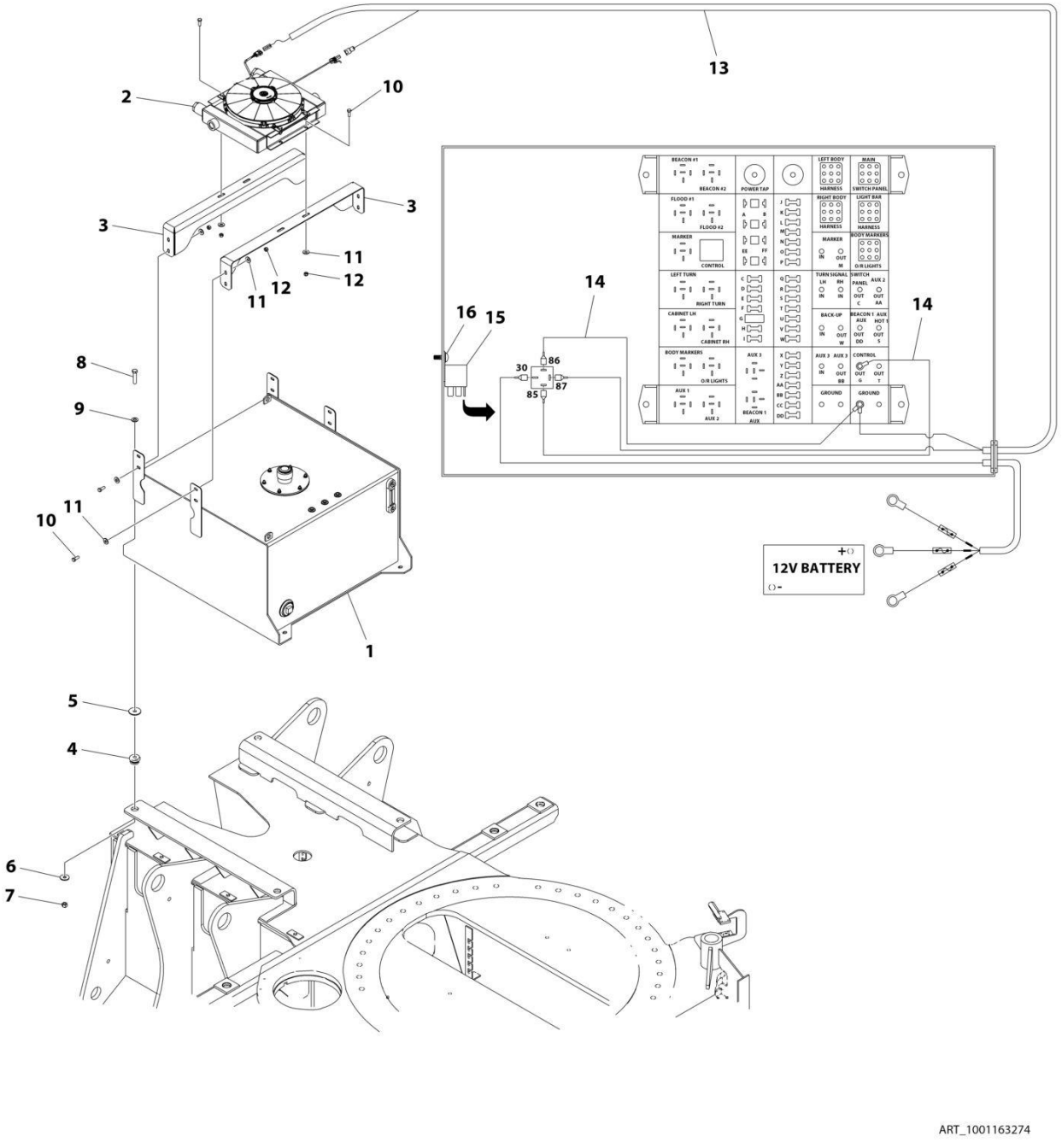


FIGURE 6-3. HYDRAULIC TANK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163274	Ref	Hydraulic Tank Installation	B
1	1001127996	1	Hydraulic Tank (See Separate Breakdown in this Section)	
2	1001151763	1	Remote Oil Cooler Radiator (See Separate Breakdown in this Section)	
3	1001130437	2	Mount, Hydraulic Oil Cooler	
4	7636000006	4	Mount, Center Bonded	
5	7949000015	4	Washer	
6	7949000016	4	Washer	
7	7660182601	4	Nut 1/2	
8	7115181850	4	Capscrew 1/2 x 2-1/4	
9	7950180141	4	Washer 1/2	
10	7115160850	12	Bolt 3/8 x 1	
11	7950160161	20	Washer 3/8	
12	7660162601	12	Nut 3/8	
13	1001144068	1	Oil Cooler Harness	
14	1001144012	2	Power Panel Relay Harness	
15	7740000003	1	Relay	
16	7790100856	1	Screw, Self-Tapping, #10 x 1/2	

FIGURE 6-4. HYDRAULIC TANK ASSEMBLY

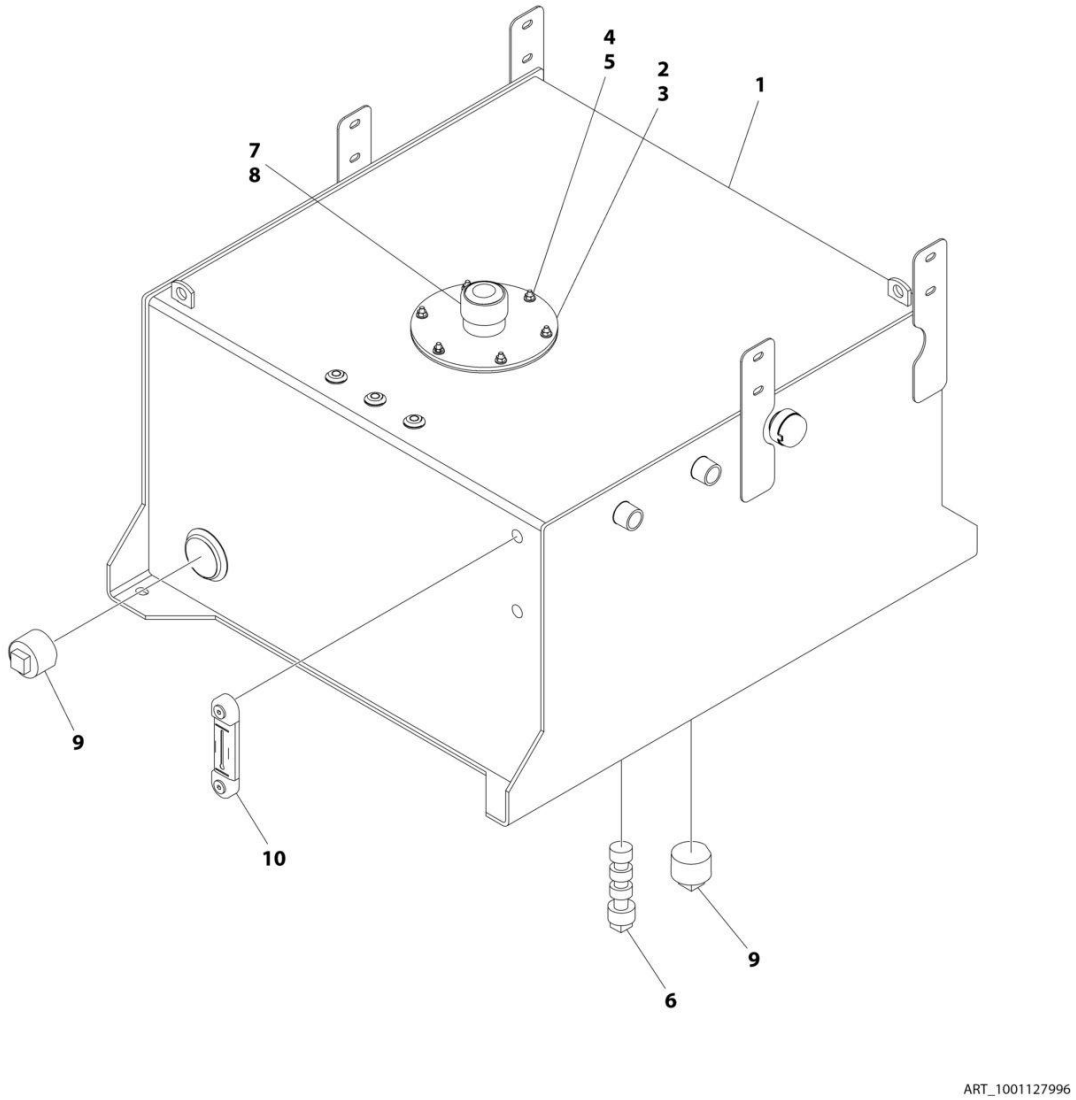


FIGURE 6-4. HYDRAULIC TANK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127996	Ref	Hydraulic Tank Assembly	B
1	70050386	1	Tank	
2	70050387	1	Gasket	
3	70050388	1	Cover Assembly	
4	83304173	6	Washer 1/4	
5	83304174	6	Nut 1/4	
6	70050389	1	Magnetic Plug	
7	7024445	1	Strainer	
8	7024444	1	Vented Fill Cap	
9	70050390	2	Plug	
10	70050391	1	Sight Gauge	

FIGURE 6-5. HYDRAULIC TUBE INSTALLATION - 9 SECTION

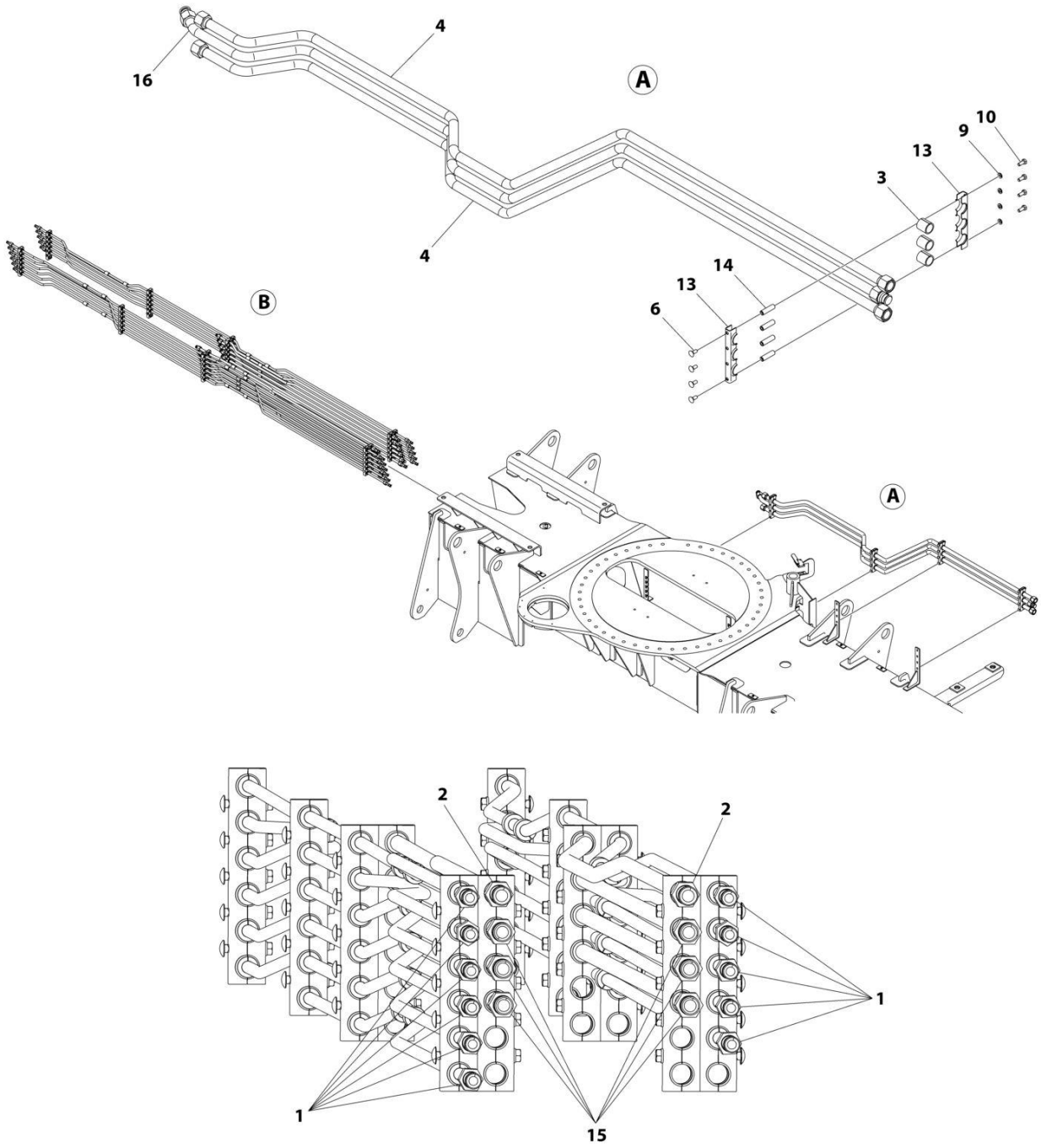


FIGURE 6-6. HYDRAULIC TUBE INSTALLATION - 9 SECTION

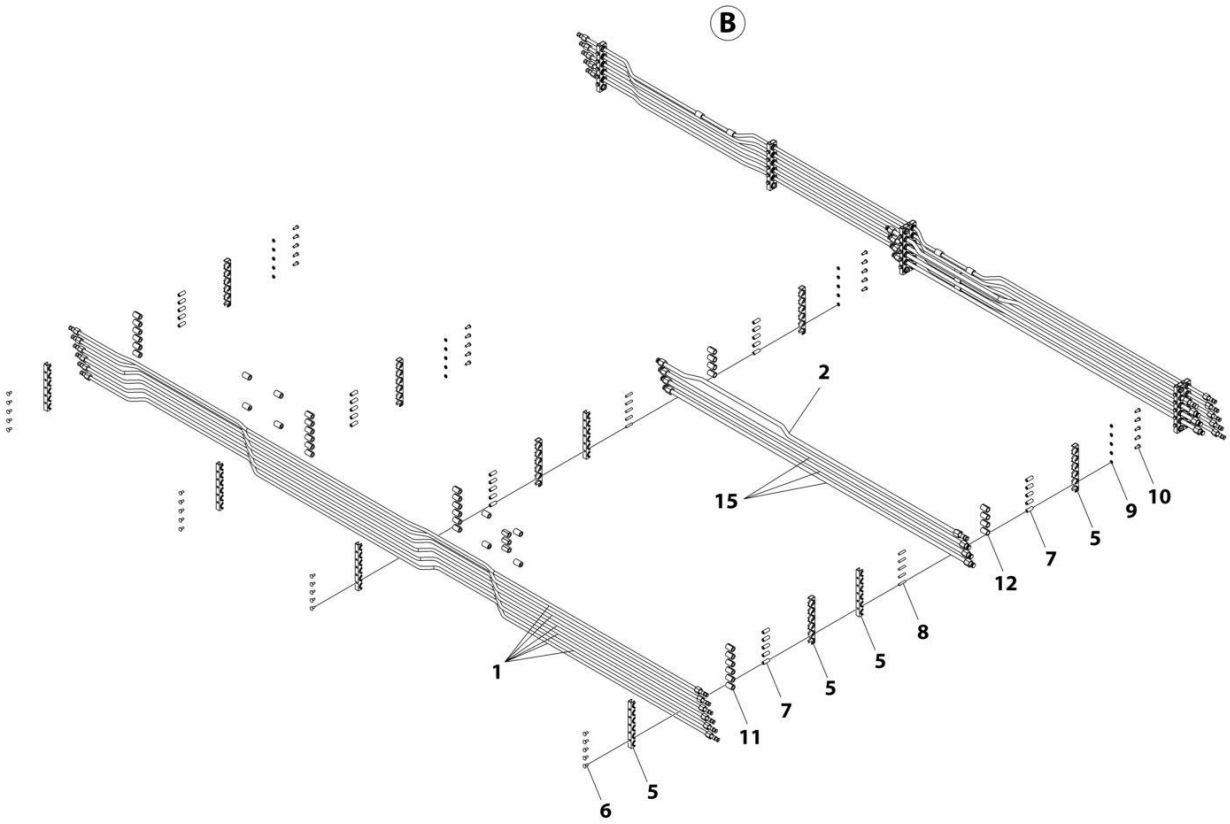


FIGURE 6-6. HYDRAULIC TUBE INSTALLATION - 9 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001135493	Ref	Hydraulic Tube Installation - 9 Section	D
1	1001134739	11	Pipe, Tube Assembly	
2	1001134740	2	Pipe, Tube Assembly	
3	7209000033	12	Bushing	
4	1001130395	2	Pipe, Tube Assembly	
5	7274000030	12	Clamp Assembly	
6	7115150664	52	Bolt 5/16 x 3/4	
7	7661000022	60	Stacking Nut	
8	7007000036	20	Thread Adapter	
9	7950150000	56	Washer 5/16	
10	7115150650	56	Capscrew 5/16 x 3/4	
11	7209000023	62	Bushing	
12	7209000024	16	Bushing	
13	7274000088	4	Clamp Assembly	
14	7661000027	16	Stacking Nut	
15	1001133571	6	Pipe, Tube Assembly	
16	1001158142	1	Pipe, Tube Assembly	

FIGURE 6-7. HYDRAULIC TUBE INSTALLATION - 11 SECTION

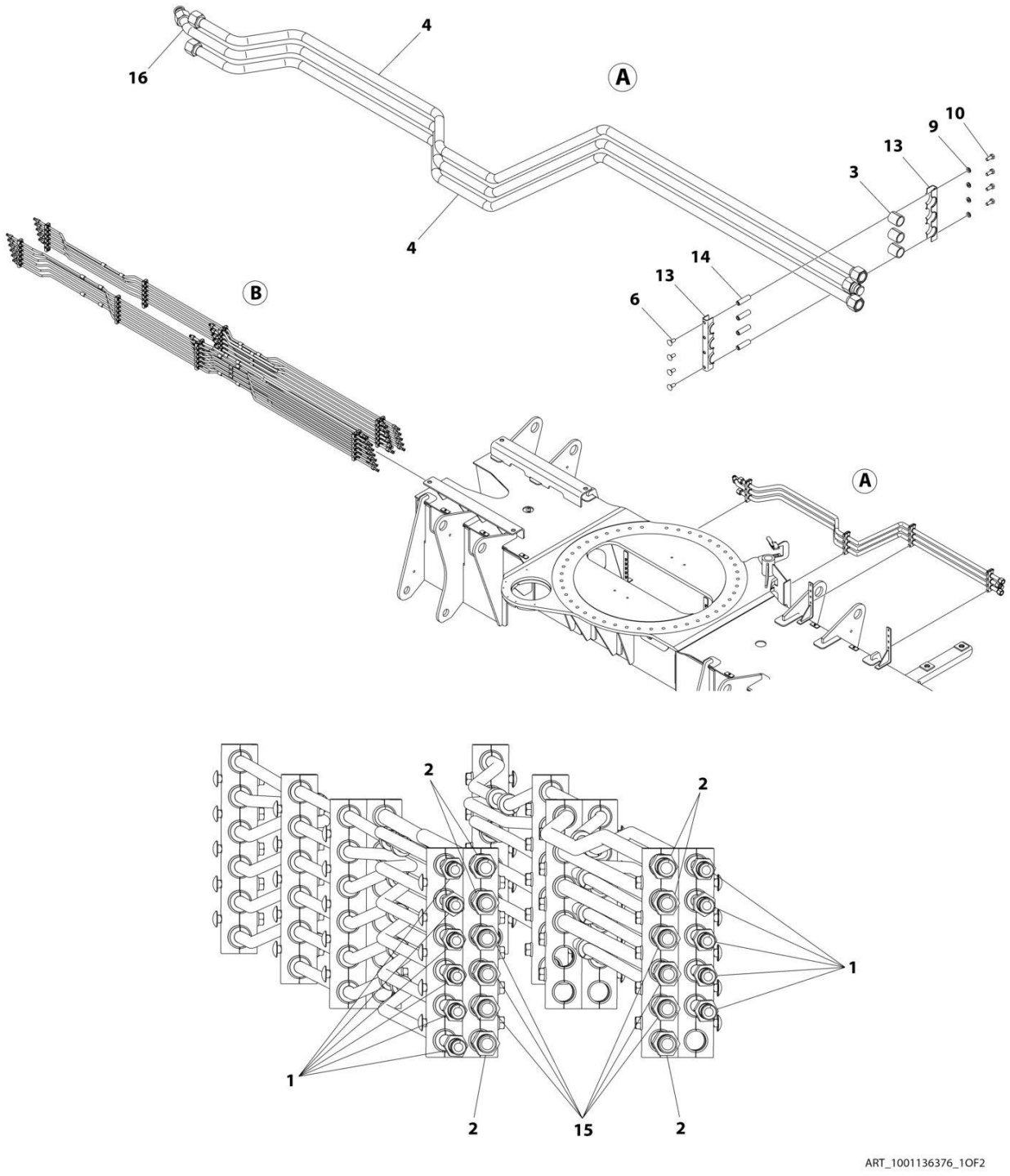


FIGURE 6-8. HYDRAULIC TUBE INSTALLATION - 11 SECTION

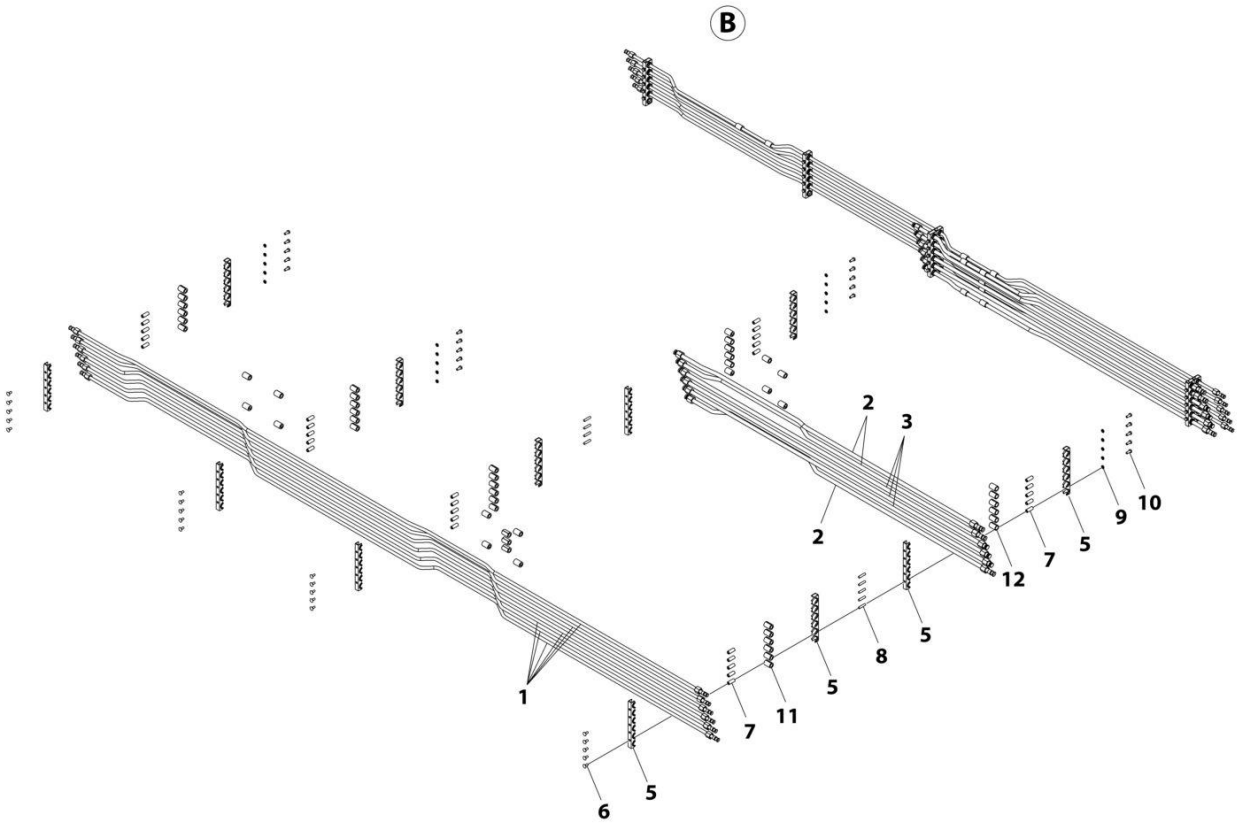


FIGURE 6-8. HYDRAULIC TUBE INSTALLATION - 11 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001136376	Ref	Hydraulic Tube Installation - 11 Section	D
1	1001134739	11	Pipe, Tube Assembly	
2	1001134740	6	Pipe, Tube Assembly	
3	1001133571	6	Pipe, Tube Assembly	
4	1001130395	2	Pipe, Tube Assembly	
5	7274000030	12	Clamp Assembly	
6	7115150664	52	Bolt 5/16 x 3/4	
7	7661000022	60	Stacking Nut	
8	7007000036	20	Thread Adapter	
9	7950150000	56	Washer 5/16	
10	7115150650	56	Capscrew 5/16 x 3/4	
11	7209000023	62	Bushing	
12	7209000024	32	Bushing	
13	7274000088	4	Clamp Assembly	
14	7661000027	16	Stacking Nut	
15	7209000033	12	Bushing	
16	1001158142	1	Pipe, Tube Assembly	

FIGURE 6-9. HYDRAULIC TUBE INSTALLATION - UNDERLIFT

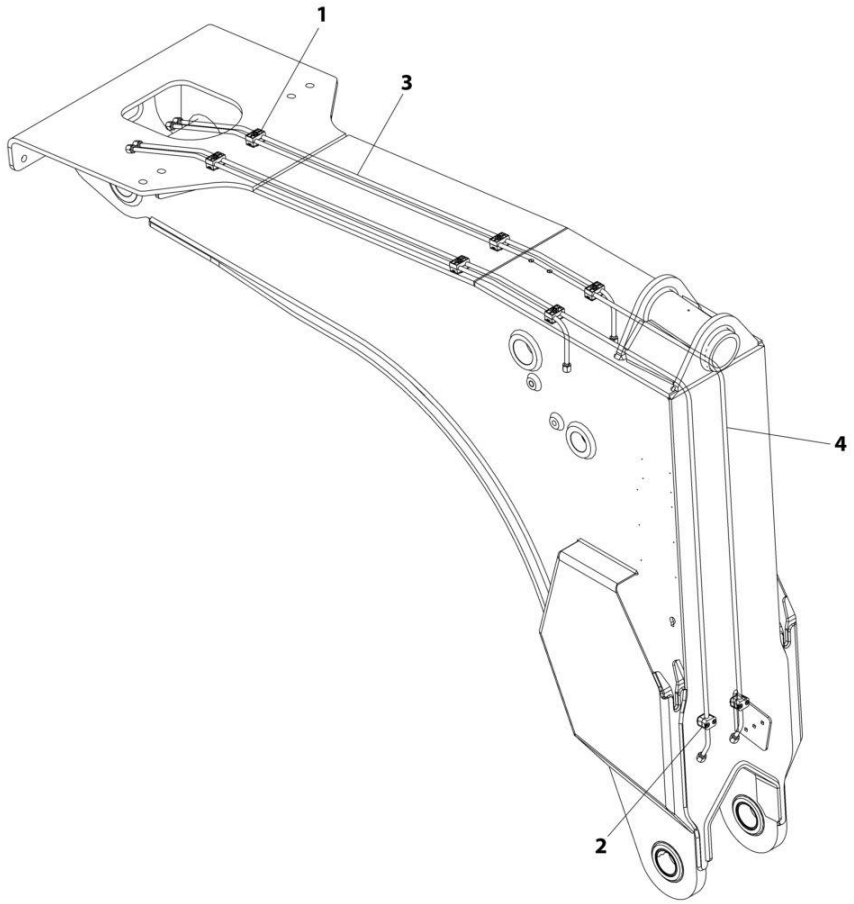


FIGURE 6-9. HYDRAULIC TUBE INSTALLATION - UNDERLIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001295911	Ref	HYDRAULIC TUBE INSTALLATION	B
1	1001136447	6	Clamp, Kit	
2	1001136559	2	Clamp, Kit	
3	1001295909	2	Tube, Knee Boom UL Tilt	
4	1001295910	2	Tube, Knee Boom UL Ext	

FIGURE 6-10. HYDRAULIC INSTALLATION - SUPPLY/PRESSURE

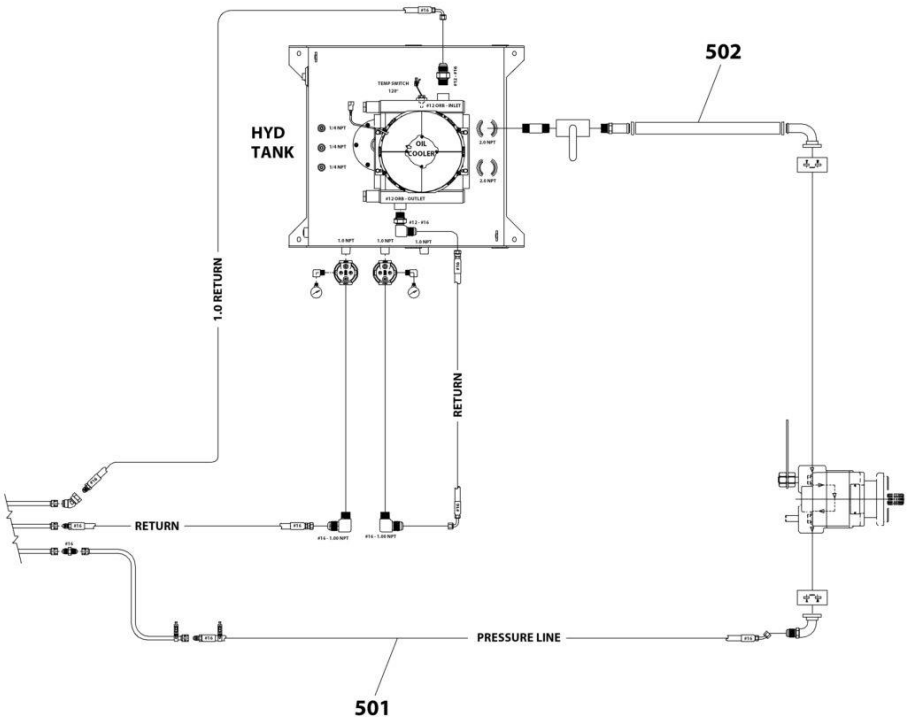


FIGURE 6-10. HYDRAULIC INSTALLATION - SUPPLY/PRESSURE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001136746	Ref	HYDRAULIC INSTALLATION - SUPPLY/PRESSURE	E
501	1001231687	1	Hose	
502	1001136739	11.6 ft	Hose	

FIGURE 6-11. AIR VALVE 2 SECTION ASSEMBLY

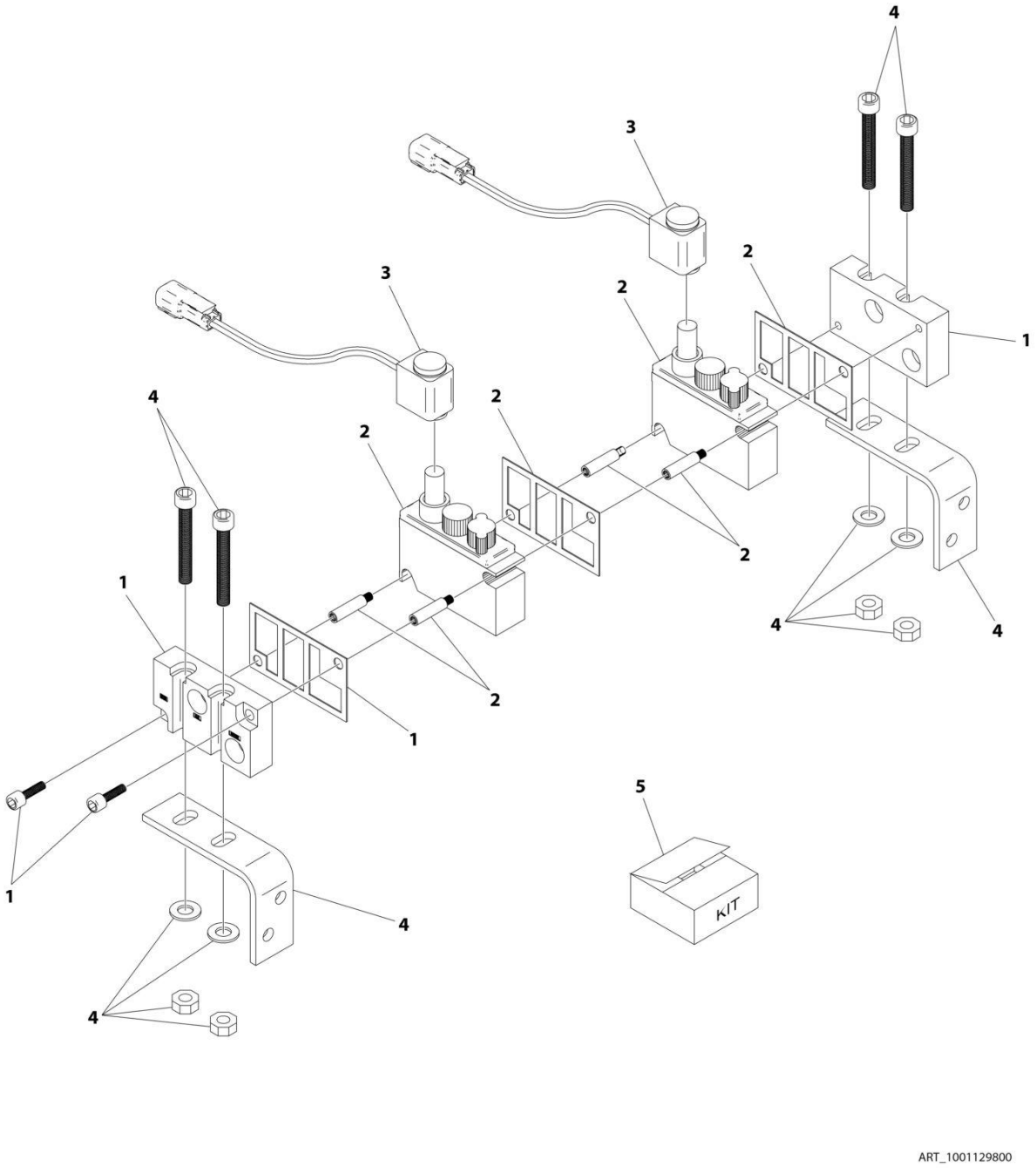


FIGURE 6-11. AIR VALVE 2 SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129800	Ref	Air Valve 2 Section Assembly	B
1	70050526	1	Kit, Stacking (Includes Inlet, Outlet, Gaskets & Assembly Hardware)	
2	70050527	2	Valve Assembly	
3	70050528	2	Coil	
4	70050529	1	Kit, Mounting Bracket	
5	70050530	2	Kit, Spool Seal	

FIGURE 6-12. AIR VALVE 4 SECTION ASSEMBLY

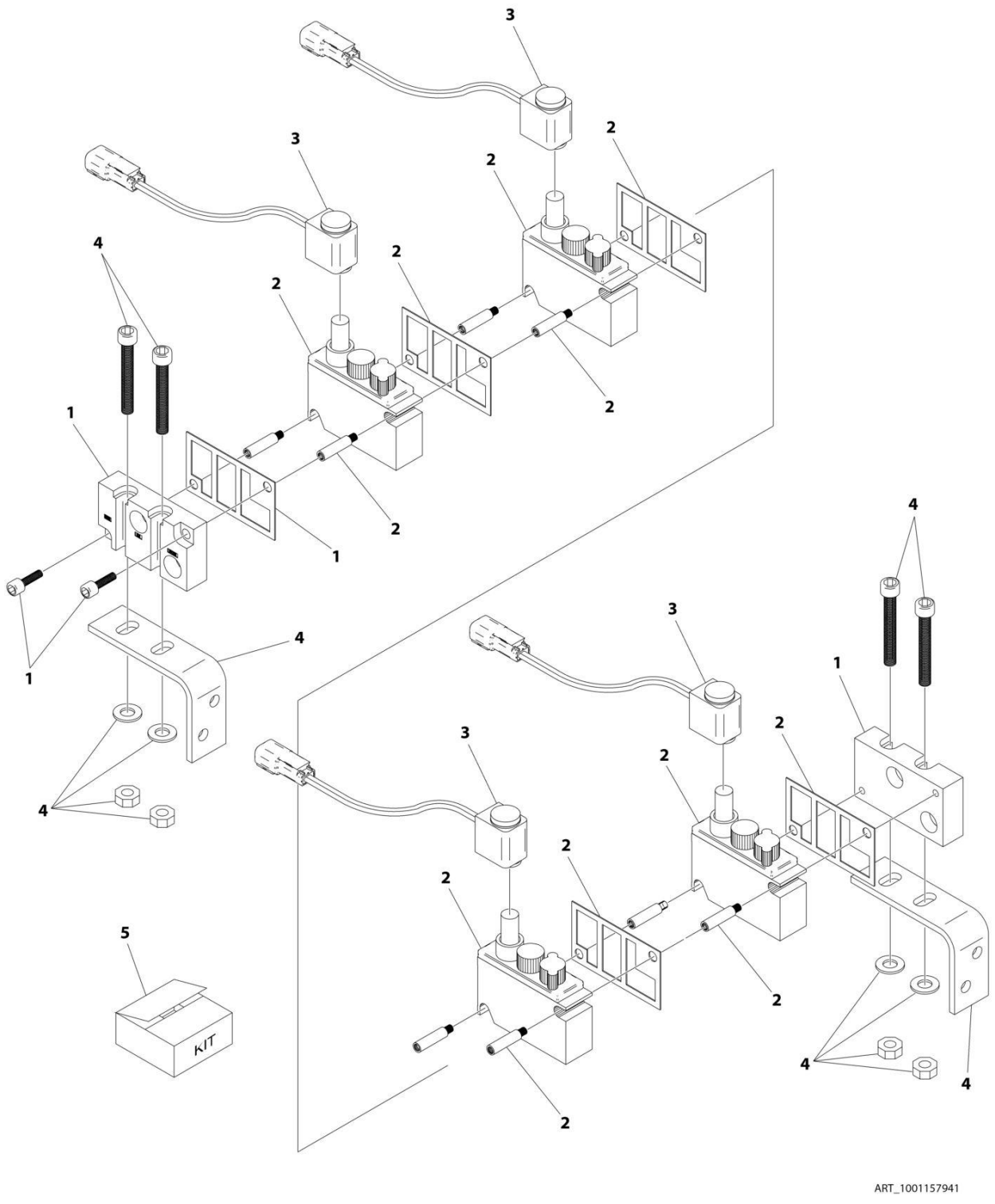


FIGURE 6-12. AIR VALVE 4 SECTION ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157941	Ref	Air Valve 4 Section Assembly	A
1	70050526	1	Kit, Stacking	
2	70050527	4	Valve	
3	70050528	4	Coil	
4	70050529	1	Kit, Mounting Bracket	
5	70050530	4	Kit, Spool Seal	

FIGURE 6-13. AUX WINCH STEEL TUBES INSTALLATION

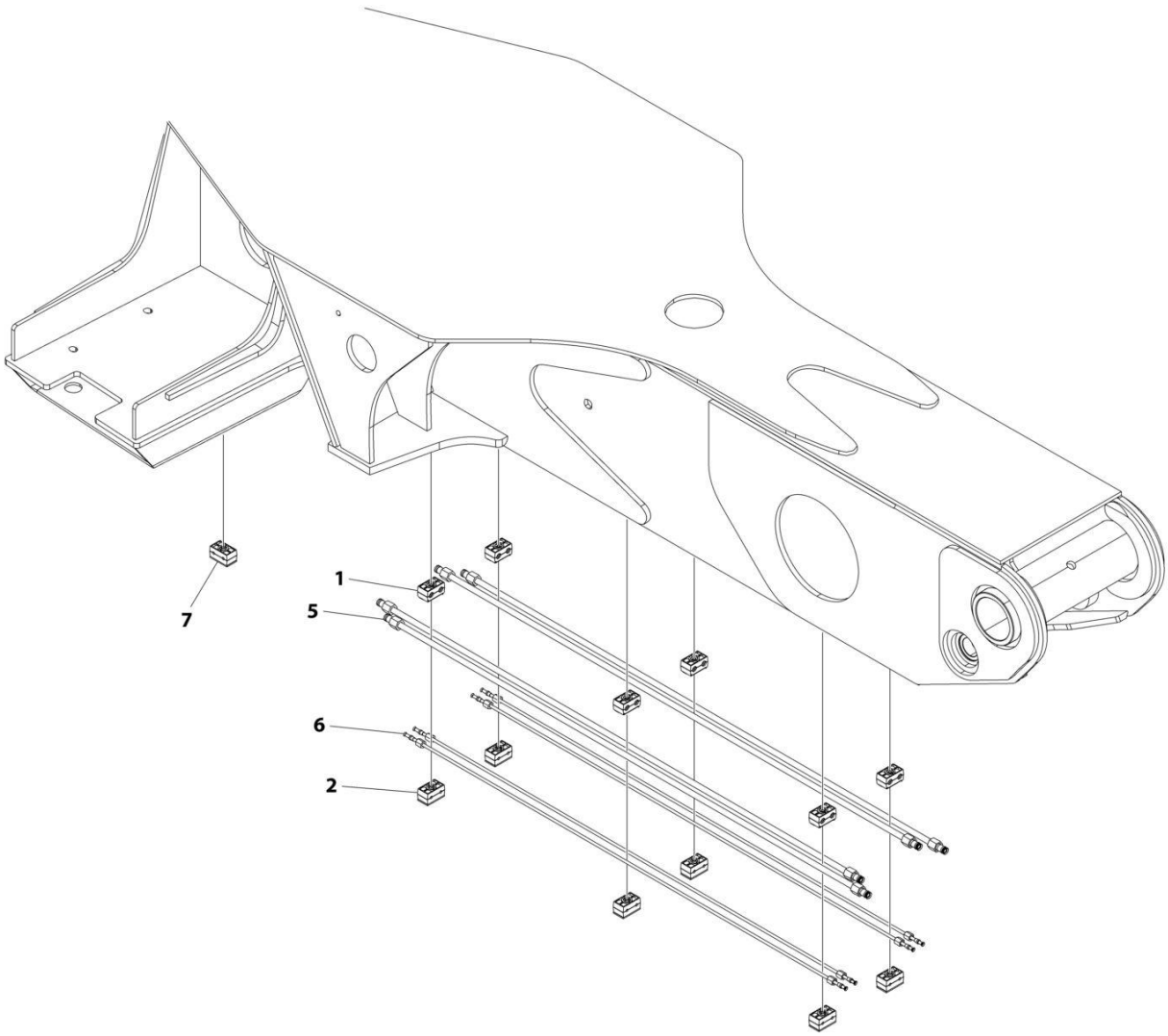


FIGURE 6-13. AUX WINCH STEEL TUBES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158671	Ref	Aux Winch Steel Tubes Installation	B
1	1001137487	6	Clamp, Kit	
2	1001158716	6	Clamp, Kit	
5	1001165825	4	Tube Assembly	
6	1001158735	4	Tube Assembly	
7	1001137052	2	Clamp, Kit	

FIGURE 6-14. HOSE INSTALLATION - AUXILIARY WINCH

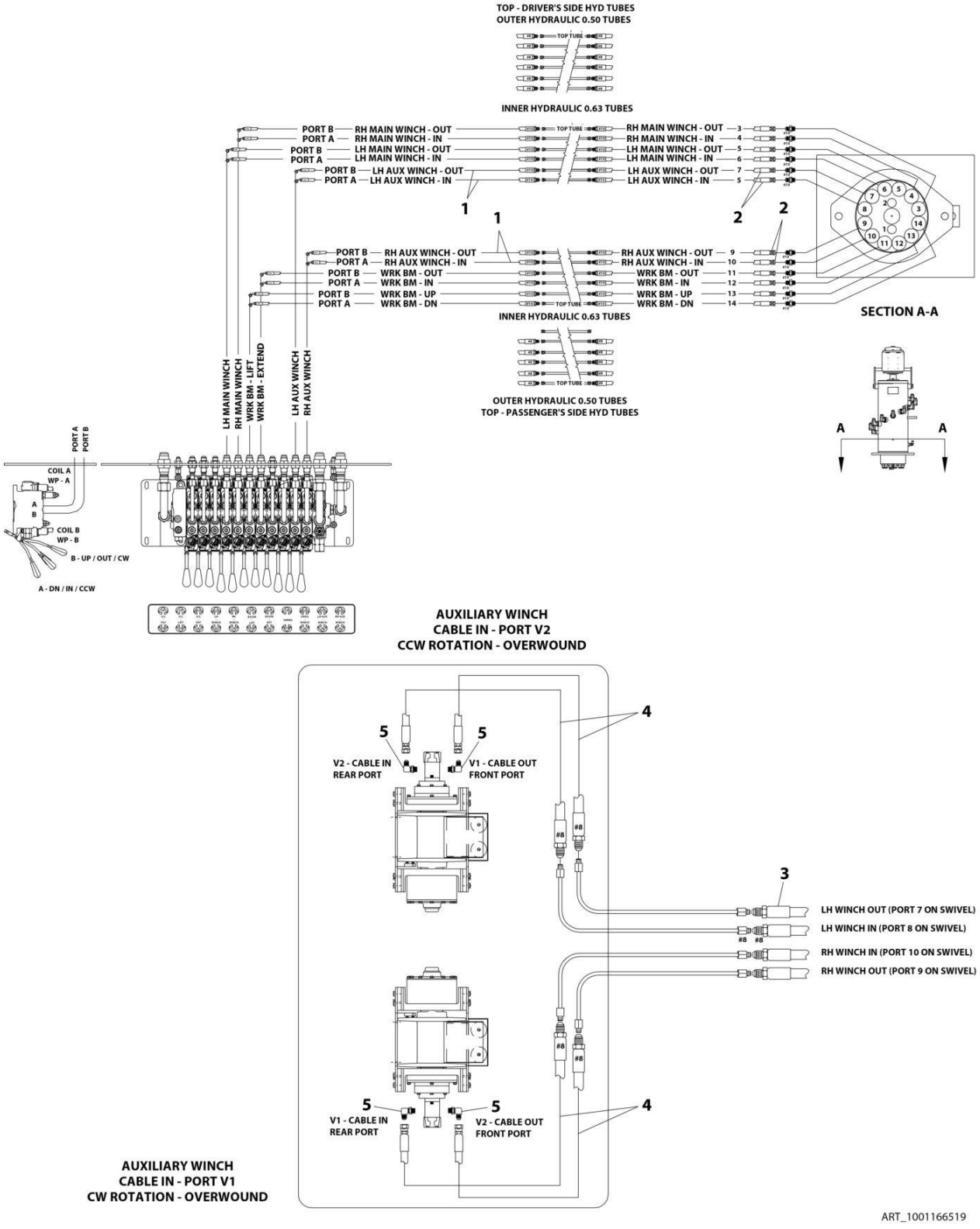


FIGURE 6-14. HOSE INSTALLATION - AUXILIARY WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166519	Ref	HOSE INSTALLATION - AUXILIARY WINCH	B
1	1001164055	4	Hose	
2	4569160030	4	Hose	
3	1001163364	4	Hose	
4	1001166373	4	Hose	
5	7445080845	4	Fitting, 45	

FIGURE 6-15. VALVE AND HOSES INSTALLATION - 9 SECTION

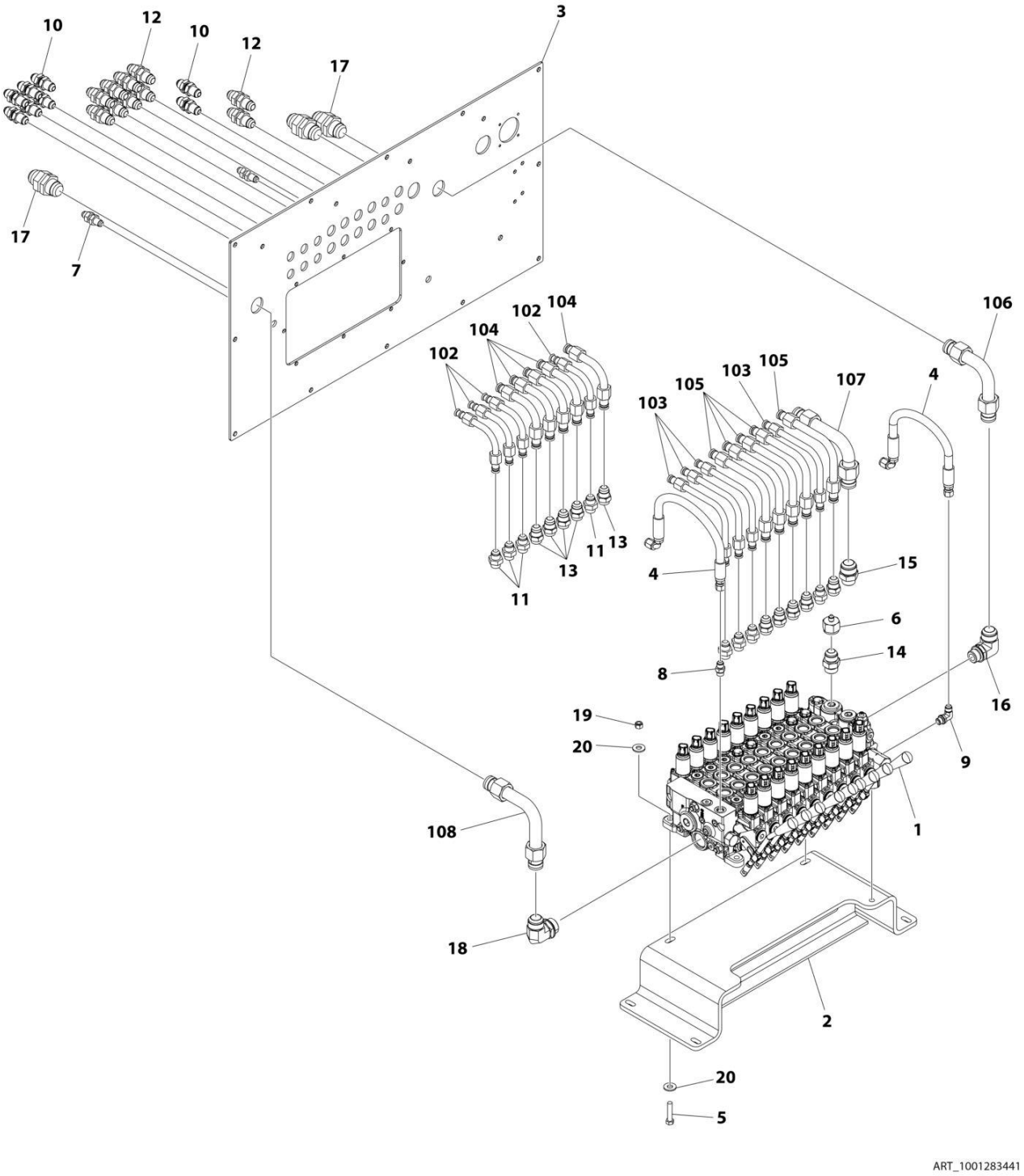


FIGURE 6-15. VALVE AND HOSES INSTALLATION - 9 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001283441	Ref	VALVE AND HOSES INSTALLATION - 9 SECTION	A
1	1001127671	Ref	Valve and Levers Assembly (See Separate Breakdown in this Section)	
2	1001130258	1	Mount	
3	1001283442	1	Plate	
4	4567122014	2	Hose	
5	7115161450	3	Screw 3/8 x 1-3/4	
6	7443000207	1	Fitting, Straight JIC/Tube	
7	7445060625	2	Fitting, Straight	
8	7445060643	1	Fitting, Straight	
9	7445060645	1	Fitting, 90 JIC (M)	
10	7445080825	8	Fitting, Union Bulkhead JIC (M)/JIC	
11	7445081043	4	Fitting, Straight	
12	7445101025	10	Fitting, Union Bulkhead JIC (M)	
13	7445101043	14	Fitting, Straight	
14	7445121243	1	Fitting, Straight ORB/JIC	
15	7445161243	1	Fitting, Straight	
16	7445161245	1	Fitting, 90 JIC (M)/O (M)	
17	7445161625	3	Fitting, Straight	
18	7445161645	1	Fitting, 90	
19	7660162601	3	Nut 3/8	
20	7950160161	6	Washer 3/8	
100	1001130218	1	Kit, Pipe - 9 Section Valve	
102	1001130208	4	Tube	
103	1001130209	4	Tube	
104	1001130210	5	Tube	
105	1001130211	5	Tube	
106	1001130215	1	Tube	
107	1001130216	1	Tube	
108	1001130217	1	Tube	

FIGURE 6-16. VALVE AND HOSES INSTALLATION - 11 SECTION

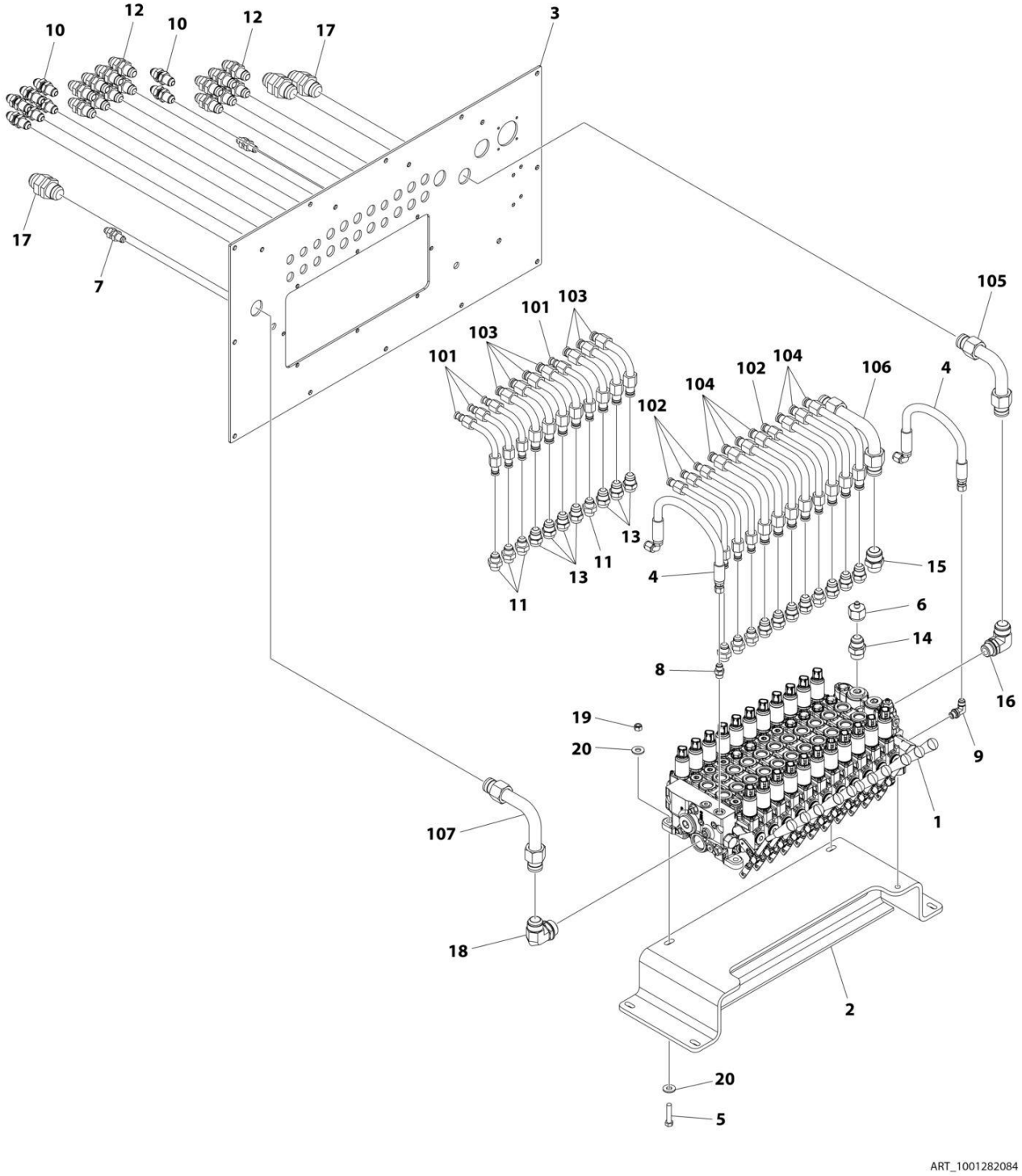


FIGURE 6-16. VALVE AND HOSES INSTALLATION - 11 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001282084	Ref	VALVE AND HOSES INSTALLATION - 11 SECTION	A
1	1001127327	Ref	Valve and Levers Assembly (See Separate Breakdown in this Section)	
2	1001157110	1	Mount	
3	1001282085	1	Plate	
4	4567122014	2	Hose	
5	7115161450	3	Screw 3/8 x 1-3/4	
6	7443000207	1	Fitting, Straight JIC/Tube	
7	7445060625	2	Fitting, Straight	
8	7445060643	1	Fitting, Straight	
9	7445060645	1	Fitting, 90 JIC (M)	
10	7445080825	8	Fitting, Union Bulkhead JIC (M)/JIC	
11	7445081043	8	Fitting, Straight	
12	7445101025	14	Fitting, Union Bulkhead JIC (M)	
13	7445101043	14	Fitting, Straight	
14	7445121243	1	Fitting, Straight ORB/JIC	
15	7445161243	1	Fitting, Straight	
16	7445161245	1	Fitting, 90 JIC (M)/O (M)	
17	7445161625	3	Fitting, Straight	
18	7445161645	1	Fitting, 90	
19	7660162601	3	Nut 3/8	
20	7950160161	6	Washer 3/8	
100	1001157212	1	Kit, Pipe - 11 Section Valve	
101	1001130208	4	Tube	
102	1001130209	4	Tube	
103	1001130210	7	Tube	
104	1001130211	7	Tube	
105	1001130215	1	Tube	
106	1001130216	1	Tube	
107	1001130217	1	Tube	

FIGURE 6-17. VALVE ASSEMBLY, 9 SECTION

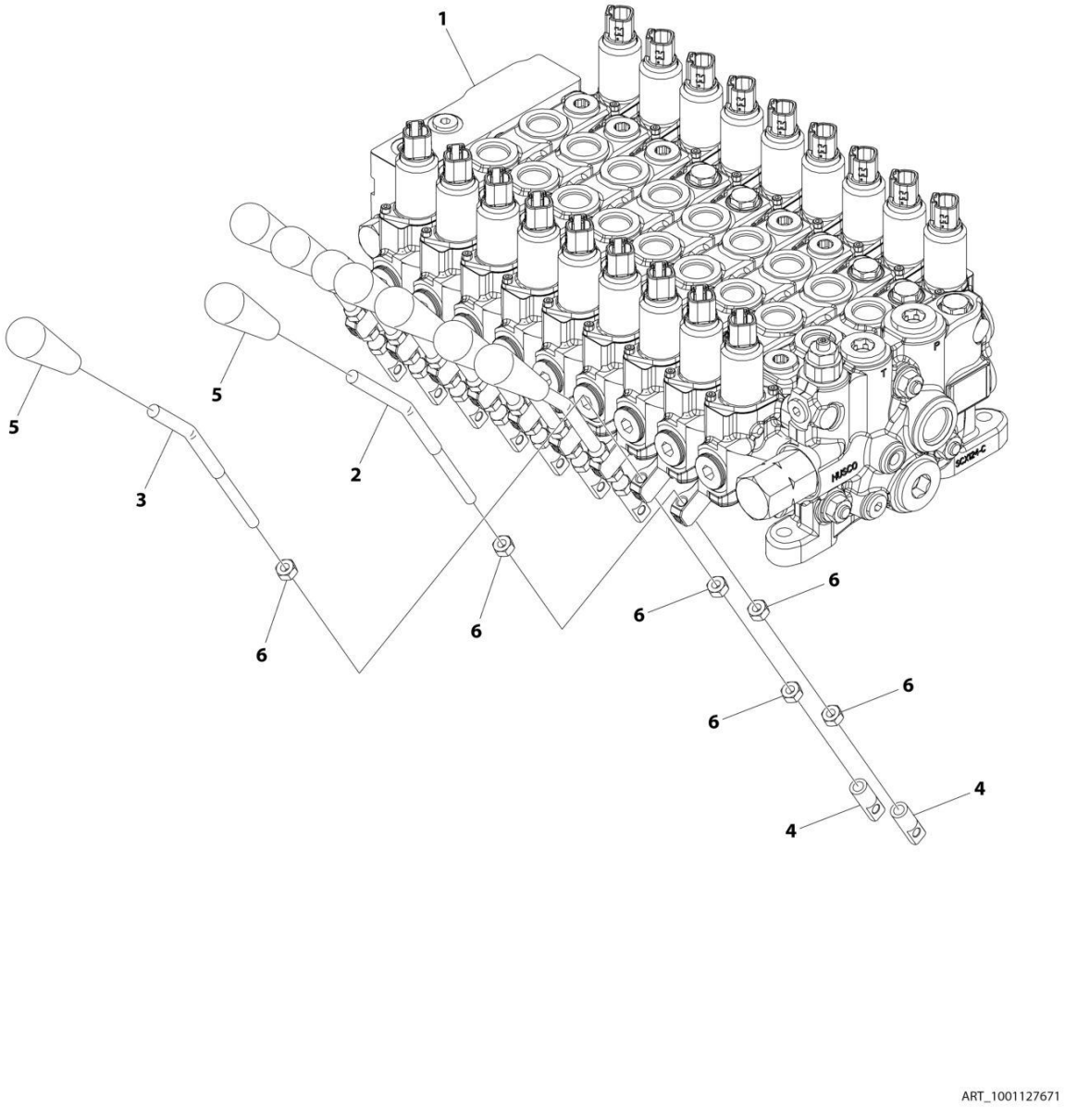


FIGURE 6-17. VALVE ASSEMBLY, 9 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127671	Ref	VALVES AND LEVERS ASSEMBLY - 9 SECTION	C
1	1001131131	1	Valve, 9 Section Control (See Separate Breakdown in this Section)	
2	1001131124	3	Handle, Long Control	
3	1001131123	6	Handle, Short Control	
4	1001131129	9	Adapter	
5	1001130491	9	Ball, Knob	
6	7660150000	27	Nut 5/16	

FIGURE 6-18. VALVE ASSEMBLY, 11 SECTION

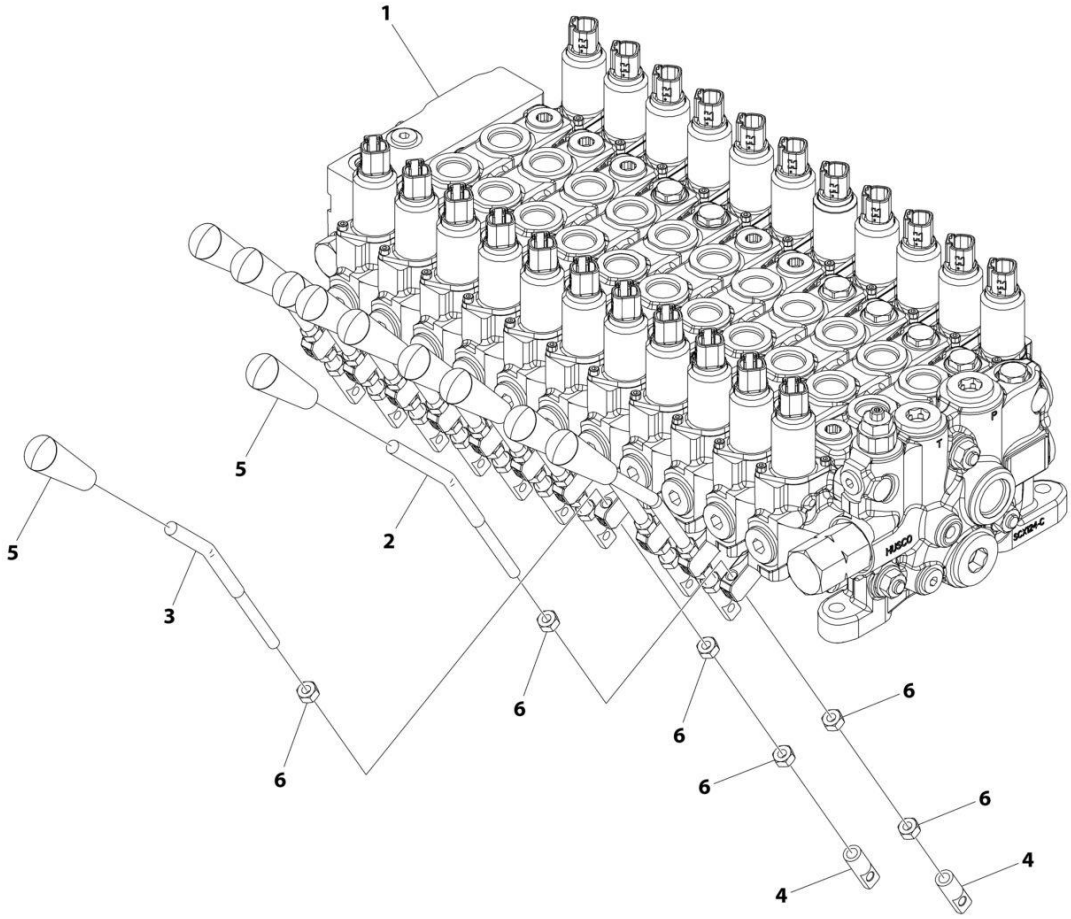
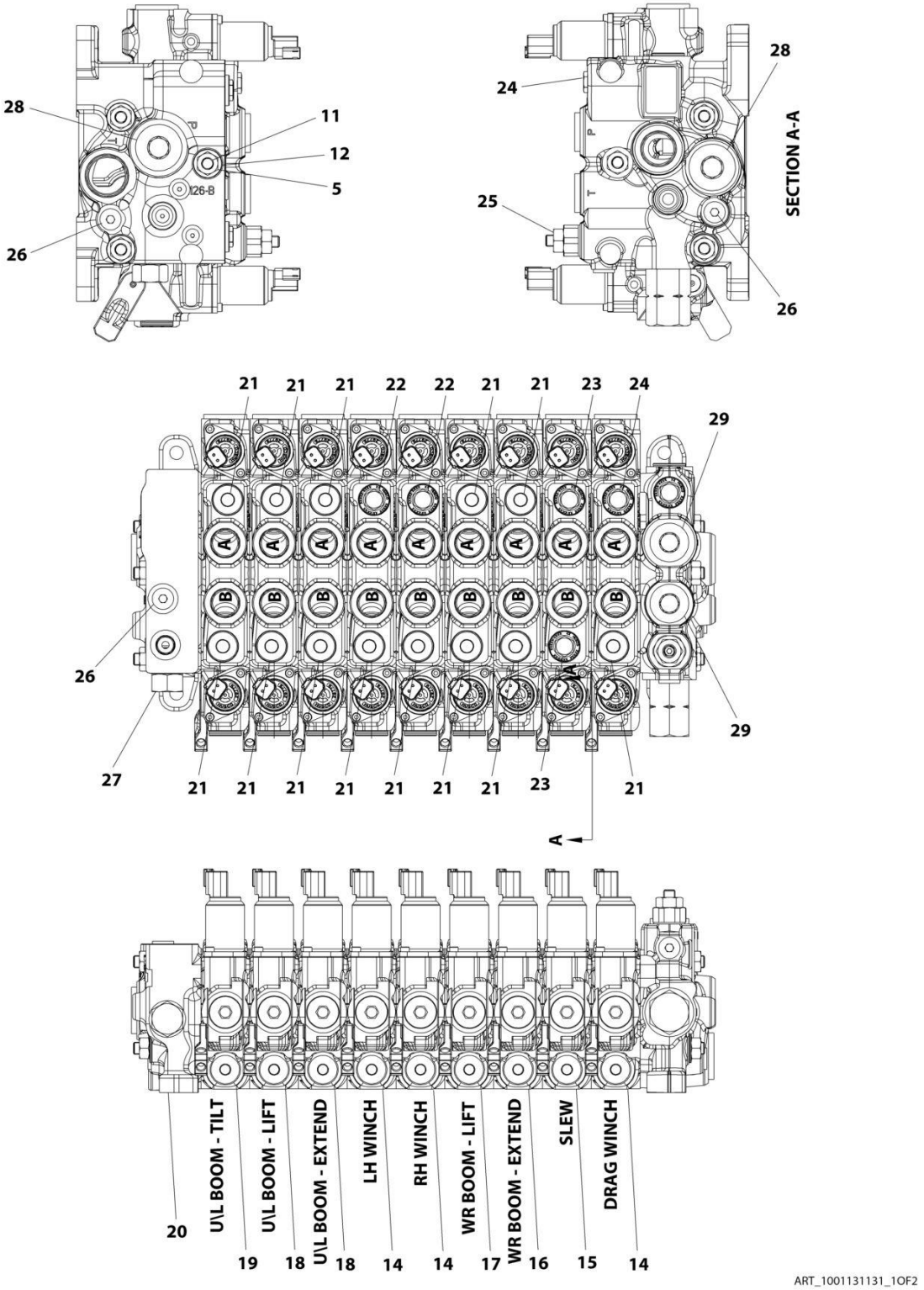


FIGURE 6-18. VALVE ASSEMBLY, 11 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127327	Ref	VALVES AND LEVERS ASSEMBLY - 11 SECTION	B
1	1001157093	1	Valve, 11 Section Control (See Separate Breakdown in this Section)	
2	1001131124	5	Handle, Long Control	
3	1001131123	6	Handle, Short Control	
4	1001131129	11	Adapter	
5	1001130491	11	Ball, Knob	
6	7660150000	33	Nut 5/16	

FIGURE 6-19. CONTROL VALVE - 9 SECTION



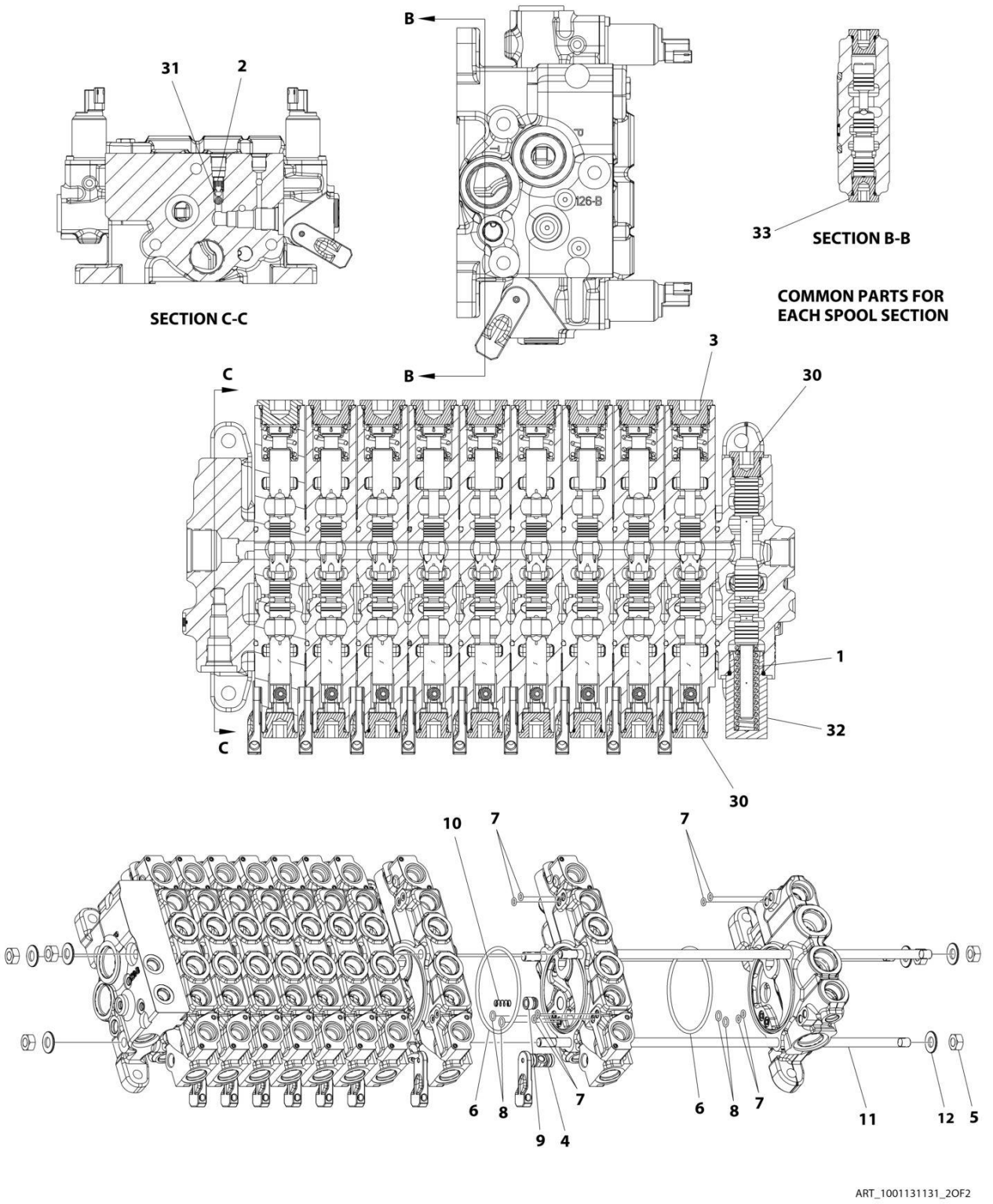
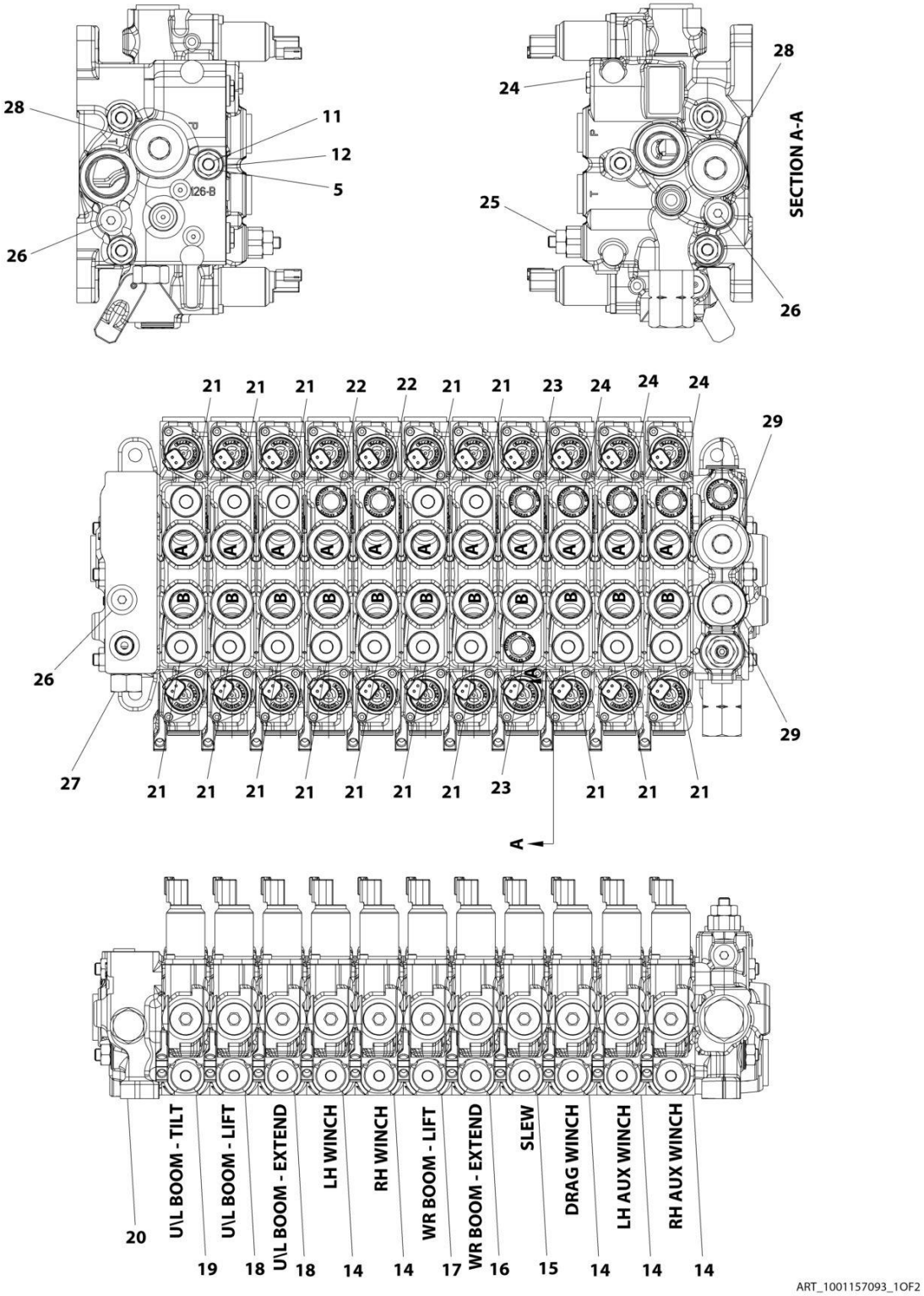

B
31
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126-B
33
SECTION B-B
SECTION C-C
COMMON PARTS FOR
EACH SPOOL SECTION
3
C
B
30
1
32
C
30
10
7
7
6
8
7
9
4
6
8
7
11
12
5
ART_1001131131_2OF2

FIGURE 6-19. CONTROL VALVE - 9 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131131	Ref	Control Valve - 9 Section	C
1	70050492	1	Spring	
2	70050501	1	Set Screw	
3	70050502	9	Plug Assembly - SAE	
4	70050510	8	Lever Assembly	
5	70050481	6	Nut	
6	8034697	10	O-Ring	
7	70050508	40	O-Ring	
8	70050507	20	O-Ring	
9	10837929	9	Poppet	
10	10837937	9	Spring	
11	70050483	3	Tie Rod	
12	70050482	6	Washer - Compression	
13	70050491	1	Inlet Section Assembly	
14	70050490	3	Spool Section Assembly	
15	70050489	1	Spool Section Assembly	
16	70050488	1	Spool Section Assembly	
17	70050487	1	Spool Section Assembly	
18	70050486	2	Spool Section Assembly	
19	70050485	1	Spool Section Assembly	
20	70050484	1	Outlet Section Assembly	
21	70050480	13	Shut Off Plug Assembly	
22	70050479	3	Relief Valve Assembly	
23	70050478	2	Relief Valve Assembly	
24	70050477	1	Relief Valve Assembly	
25	70050476	1	Drain Regulator Assembly	
26	70050475	3	Plug Assembly - SAE	
27	70050474	1	Pressure Regulating Valve Assembly	
28	70050473	2	Plug Assembly - SAE	
29	70050472	2	Plug Assembly - SAE	
30	70050503	10	Plug Assembly - Metric	
31	70050506	1	Ball	
32	70050505	1	Cap Assembly	
33	70050504	16	Plug Assembly - Metric	

FIGURE 6-20. CONTROL VALVE - 11 SECTION



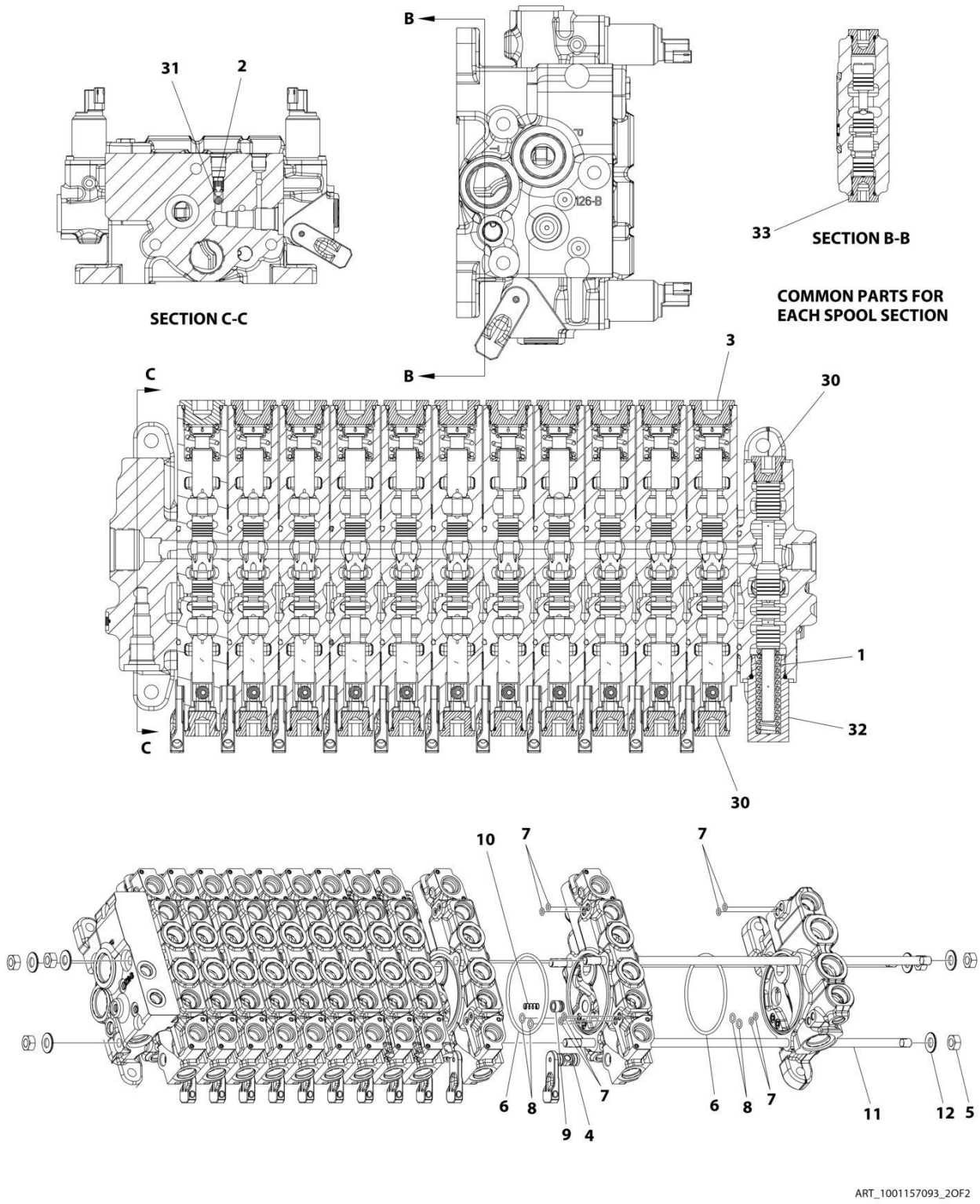

B
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126-B
33
SECTION B-B
SECTION C-C
COMMON PARTS FOR
EACH SPOOL SECTION
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C
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7
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4
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12
5
ART_1001157093_2OF2

FIGURE 6-20. CONTROL VALVE - 11 SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157093	Ref	Control Valve - 11 Section	A
1	70050492	1	Spring	
2	70050501	1	Set Screw	
3	70050502	11	Plug Assembly - SAE	
4	70050510	10	Lever Assembly	
5	70050481	6	Nut	
6	8034697	12	O-Ring	
7	70050508	48	O-Ring	
8	70050507	24	O-Ring	
9	10837929	11	Poppet	
10	10837937	11	Spring	
11	70050734	3	Tie Rod	
12	70050482	6	Washer - Compression	
13	70050491	1	Inlet Section Assembly	
14	70050490	5	Spool Section Assembly	
15	70050489	1	Spool Section Assembly	
16	70050488	1	Spool Section Assembly	
17	70050487	1	Spool Section Assembly	
18	70050486	2	Spool Section Assembly	
19	70050485	1	Spool Section Assembly	
20	70050484	1	Outlet Section Assembly	
21	70050480	15	Shut Off Plug Assembly	
22	70050479	3	Relief Valve Assembly	
23	70050478	2	Relief Valve Assembly	
24	70050477	3	Relief Valve Assembly	
25	70050476	1	Drain Regulator Assembly	
26	70050475	3	Plug Assembly - SAE	
27	70050474	1	Pressure Regulating Valve Assembly	
28	70050473	2	Plug Assembly - SAE	
29	70050472	2	Plug Assembly - SAE	
30	70050503	12	Plug Assembly - Metric	
31	70050506	1	Ball	
32	70050505	1	Cap Assembly	
33	70050504	20	Plug Assembly - Metric	

FIGURE 6-21. VALVE, OUTRIGGER CONTROL

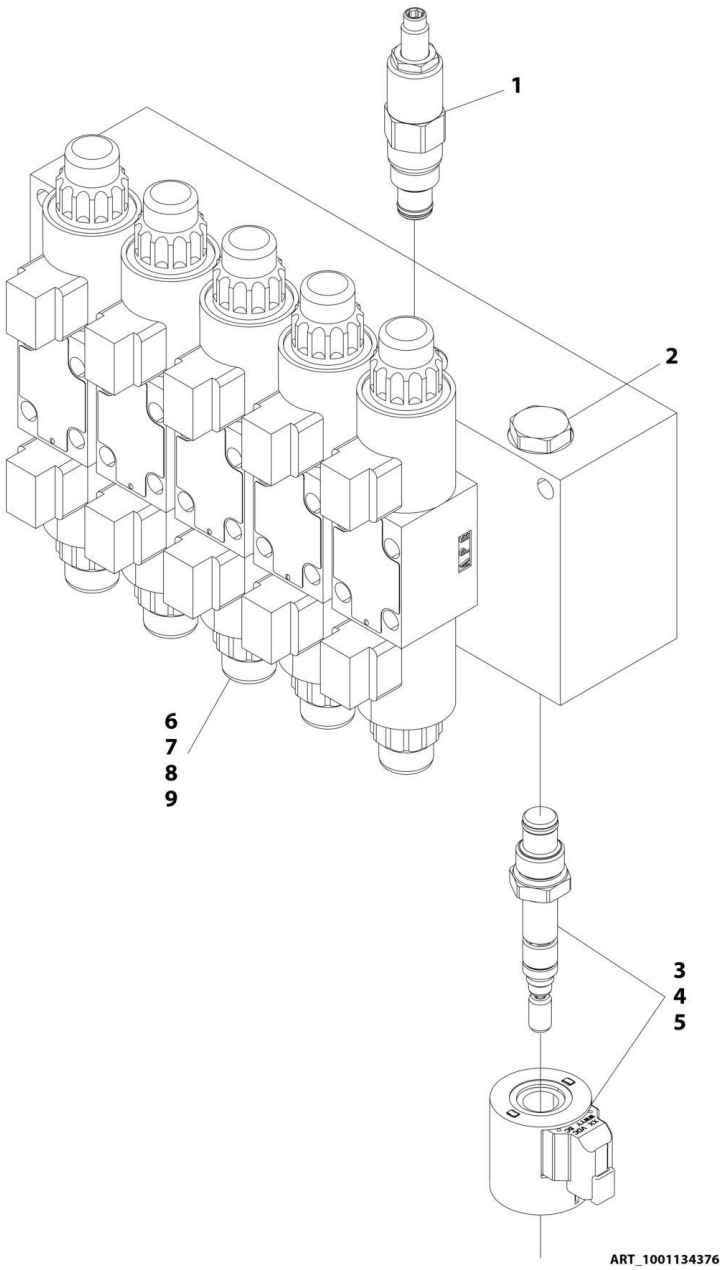


FIGURE 6-21. VALVE, OUTRIGGER CONTROL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001134376	Ref	VALVE, OUTRIGGER CONTROL	E
1	7935000280	1	Relief Valve	
1	7017496	1	Seal Kit	
2	4641193	1	Check Valve	
2	91164056	1	Seal Kit	
3	70050515	1	Solenoid Valve	
3	7022399	1	Seal Kit	
4	70050516	1	Coil	
5	7022390	1	Nut	
6	70050517	5	Directional Valve	
6	70050261	1	Seal Kit	
7	70050518	10	Coil	
8	70050111	10	Nut	
9	3931028	20	Bolt #10 x 1-3/4	

FIGURE 6-22. REMOTE OIL COOLER RADIATOR

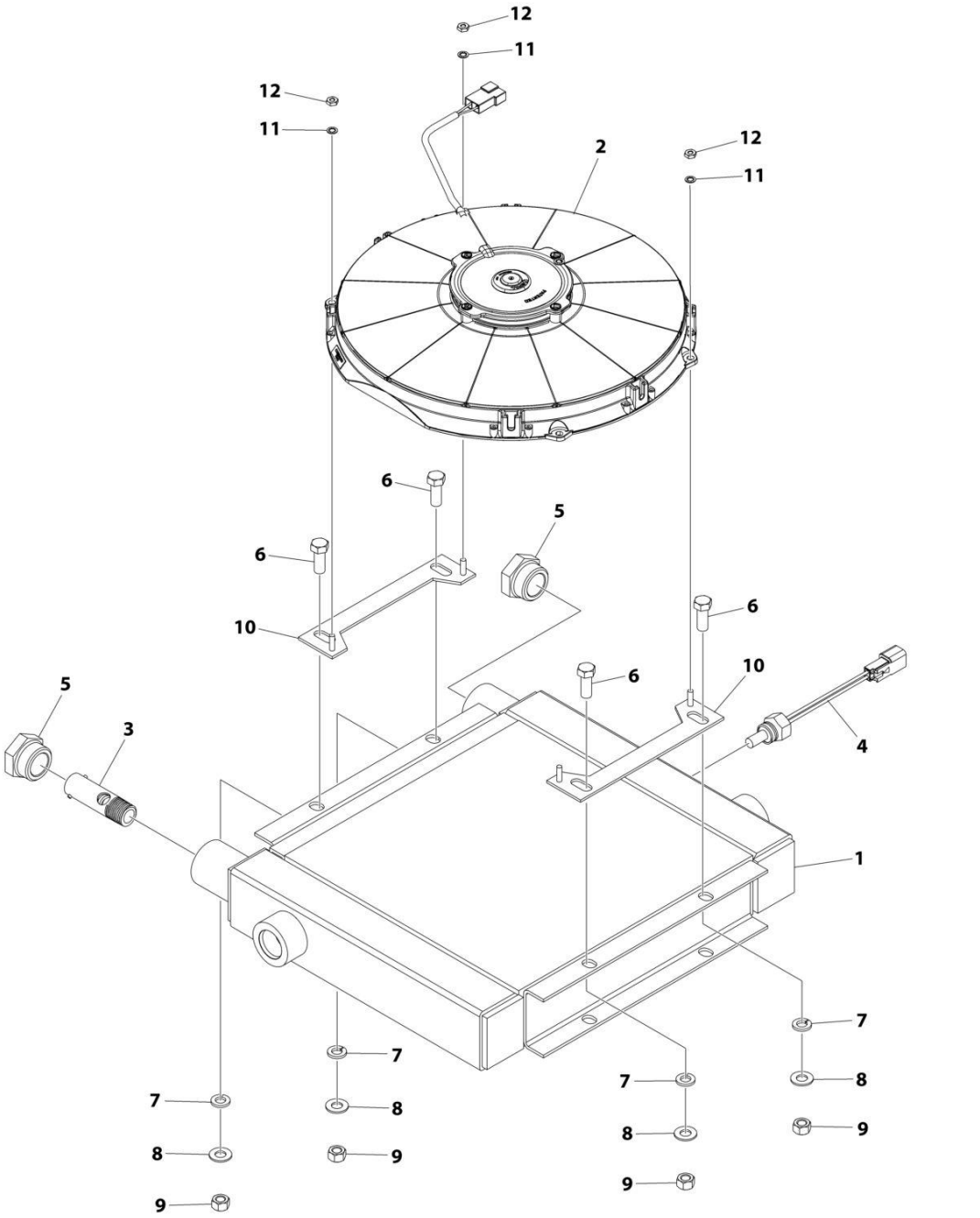


FIGURE 6-22. REMOTE OIL COOLER RADIATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001151763	Ref	Remote Oil Cooler Radiator	B
1	70050273	1	Core, Cooler - NPT	
1	70050275	1	Core, Cooler - O-Ring	
2	70050276	1	Fan	
3	70050277	1	Valve, Bypass Check	
4	70050274	1	Switch, Temperature - NPT	
4	70050278	1	Switch, Temperature - O-Ring	
5	70050280	2	Plug	
6	7115160850	4	Capscrew 3/8 x 1	
7	7950160000	4	Lockwasher 3/8	
8	7950160161	4	Washer 3/8	
9	7660160000	4	Nut 3/8	
10	70050279	2	Bracket	
11	70050281	4	Lockwasher #10	
12	70050282	2	Nut #10	

FIGURE 6-23. TANK (HYDRAULIC) INSTALLATION

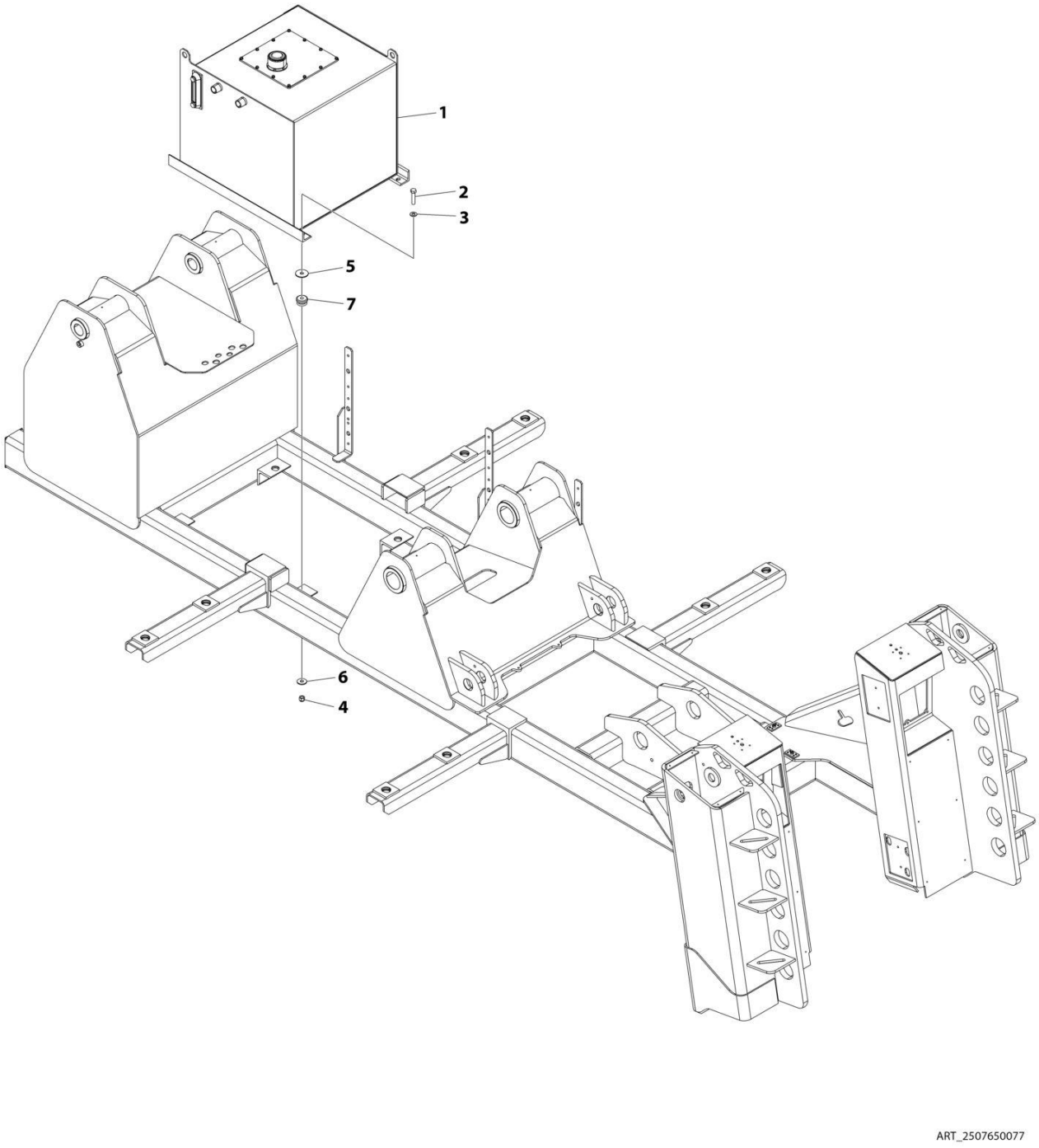


FIGURE 6-23. TANK (HYDRAULIC) INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2507650077	Ref	TANK (HYDRAULIC) INSTALLATION	B
1	3750000055	1	Tank Assembly (See Separate Breakdown in this Section)	
2	7115181850	4	Capscrew 1/2 x 2-1/4	
3	7950180141	4	Washer 1/2	
4	7660182601	4	Nut 1/2	
5	7949000015	4	Washer	
6	7949000016	4	Washer	
7	7636000006	4	Mount, Center Bonded	

FIGURE 6-24. TANK (HYDRAULIC) ASSEMBLY

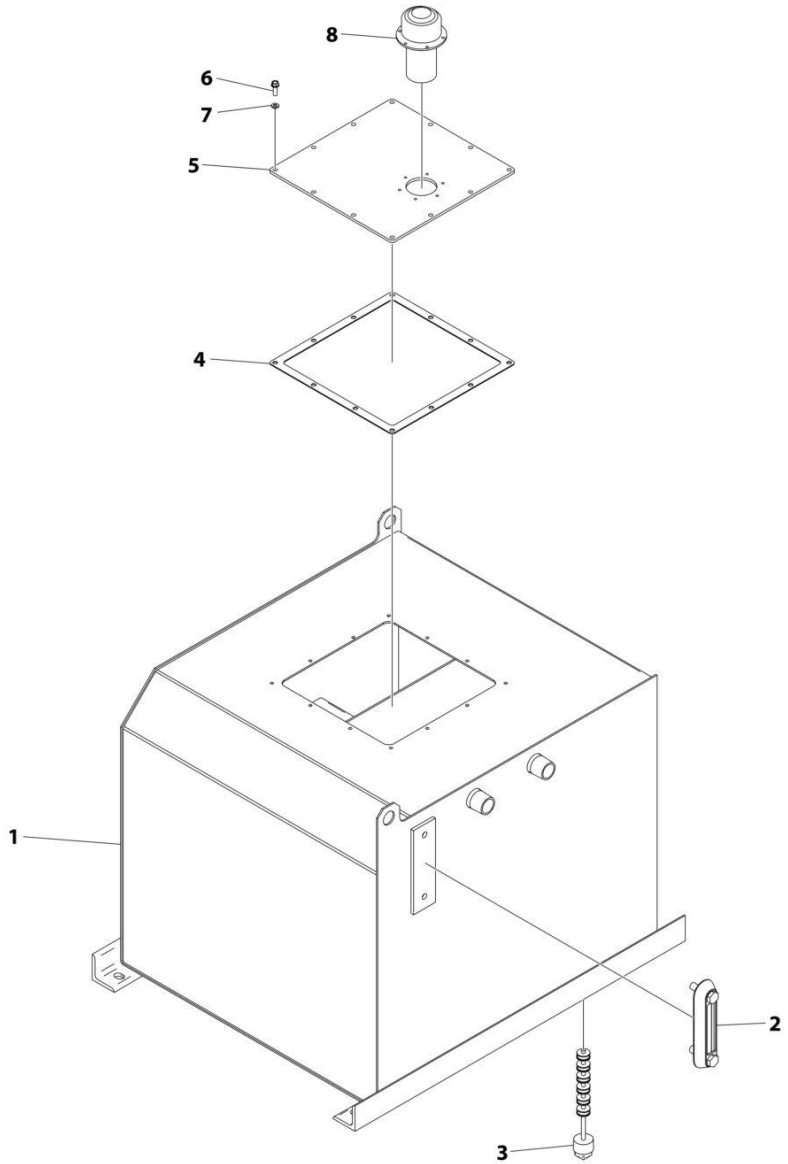


FIGURE 6-24. TANK (HYDRAULIC) ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3750000055	Ref	TANK (HYDRAULIC) ASSEMBLY	C
1	3750000056	1	Hydraulic Tank	
2	7470000003	1	Gauge	
3	7701000025	1	Plug	
4	7796000051	1	Gasket	
5	4706002235	1	Plate	
6	7790141253	12	Screw 1/4 x 3/4	
7	7950140000	12	Washer 1/4	
8	7183000004	1	Breather Filter	

SECTION 7 - ELECTRICAL

FIGURE 7-1. ALARM INSTALLATION - FIXED BACK-UP

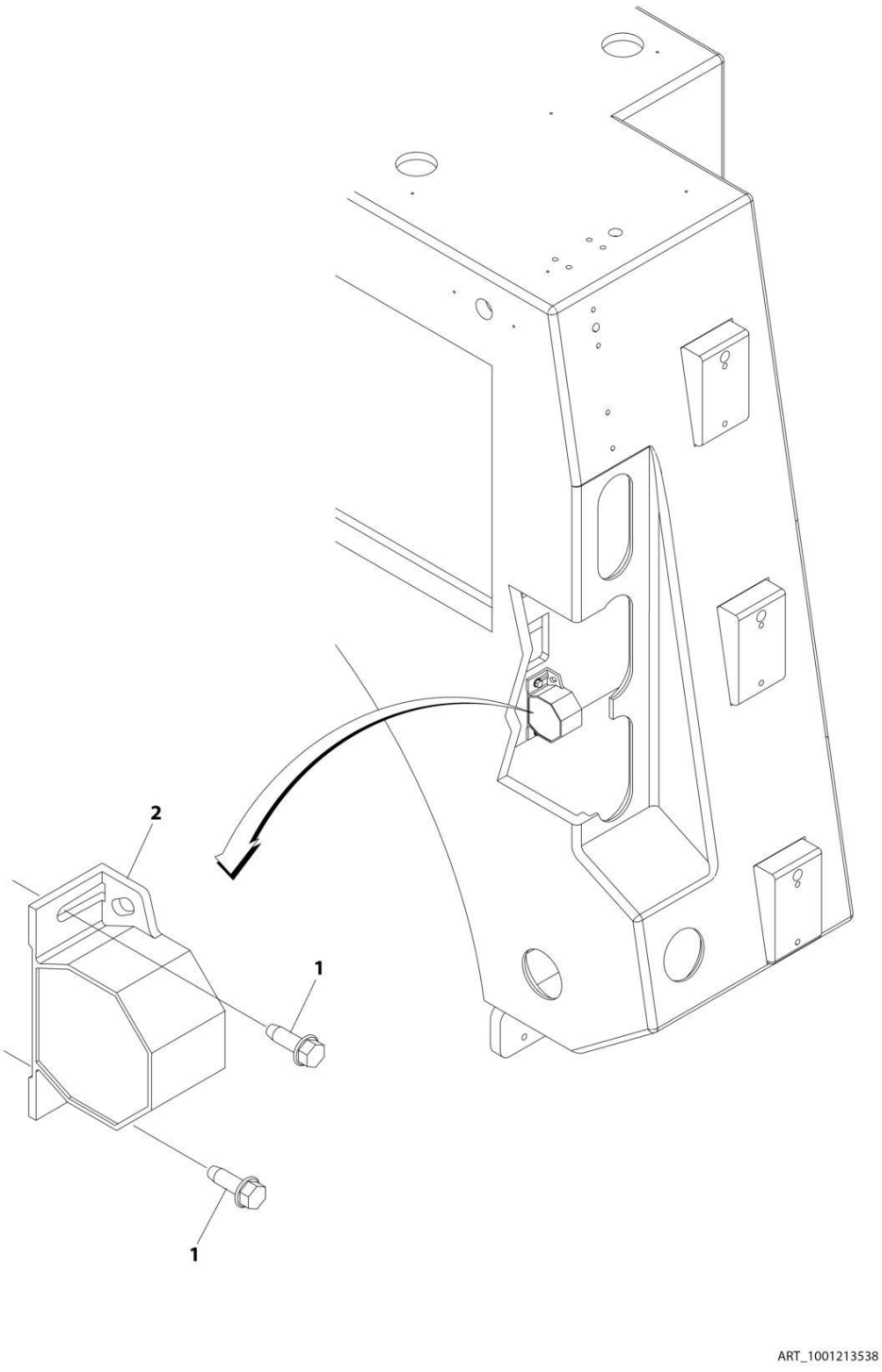


FIGURE 7-1. ALARM INSTALLATION - FIXED BACK-UP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001213538	Ref	Fixed Back-Up Alarm Installation	A
1	7790141251	2	Screw 1/4 x 3/4	
2	7011000006	1	Alarm	

FIGURE 7-2. BATTERY RELOCATION INSTALLATION (HARDWARE AND WIRE)

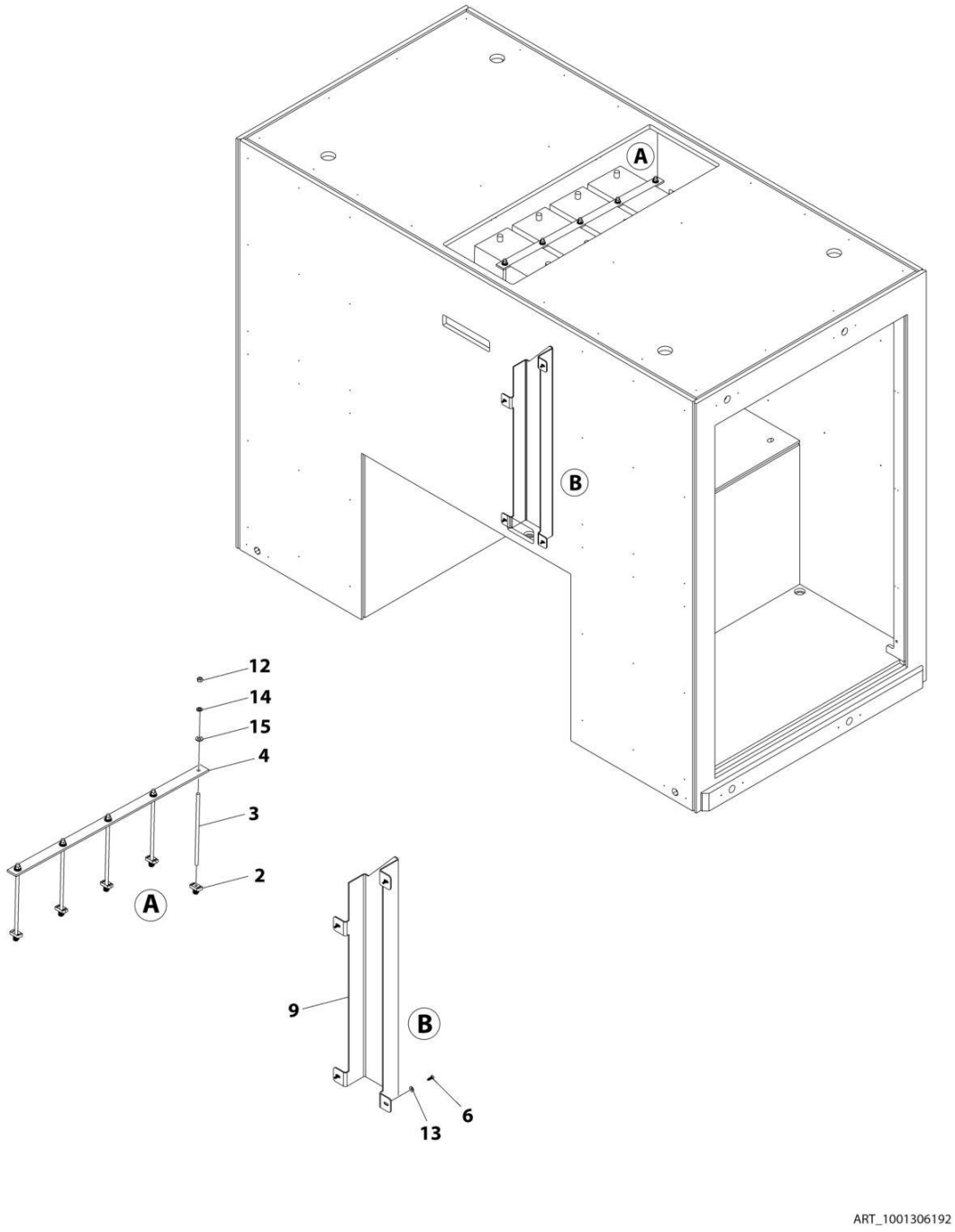


FIGURE 7-2. BATTERY RELOCATION INSTALLATION (HARDWARE AND WIRE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306192	Ref	BATTERY RELOCATION INSTALLATION	A
1	1060706	8 ft	Cable (Not Shown)	
2	1001166644	5	Nut 3/8	
3	1001166670	5	Rod, Threaded 3/8	
4	1001183200	1	Bar, Hold Down	
5	1001188538	8 ft	Cable, Battery (Red) (Not Shown)	
6	1001194676	4	Screw 1/4 x 3/4	
7	1001210960	4 ft	Wire (Black) (Not Shown)	
8	1001217996	2	Connector (Not Shown)	
9	1001306195	1	Channel	
10	7346000040	1	Heat Shrink (Not Shown)	
11	7346000131	8	Connector (Not Shown)	
12	7660160000	5	Nut 3/8	
13	7950140141	4	Washer 1/4	
14	7950160000	5	Washer 3/8	
15	7950160153	5	Washer 3/8	

FIGURE 7-3. BATTERY RELOCATION INSTALLATION (HARDWARE)

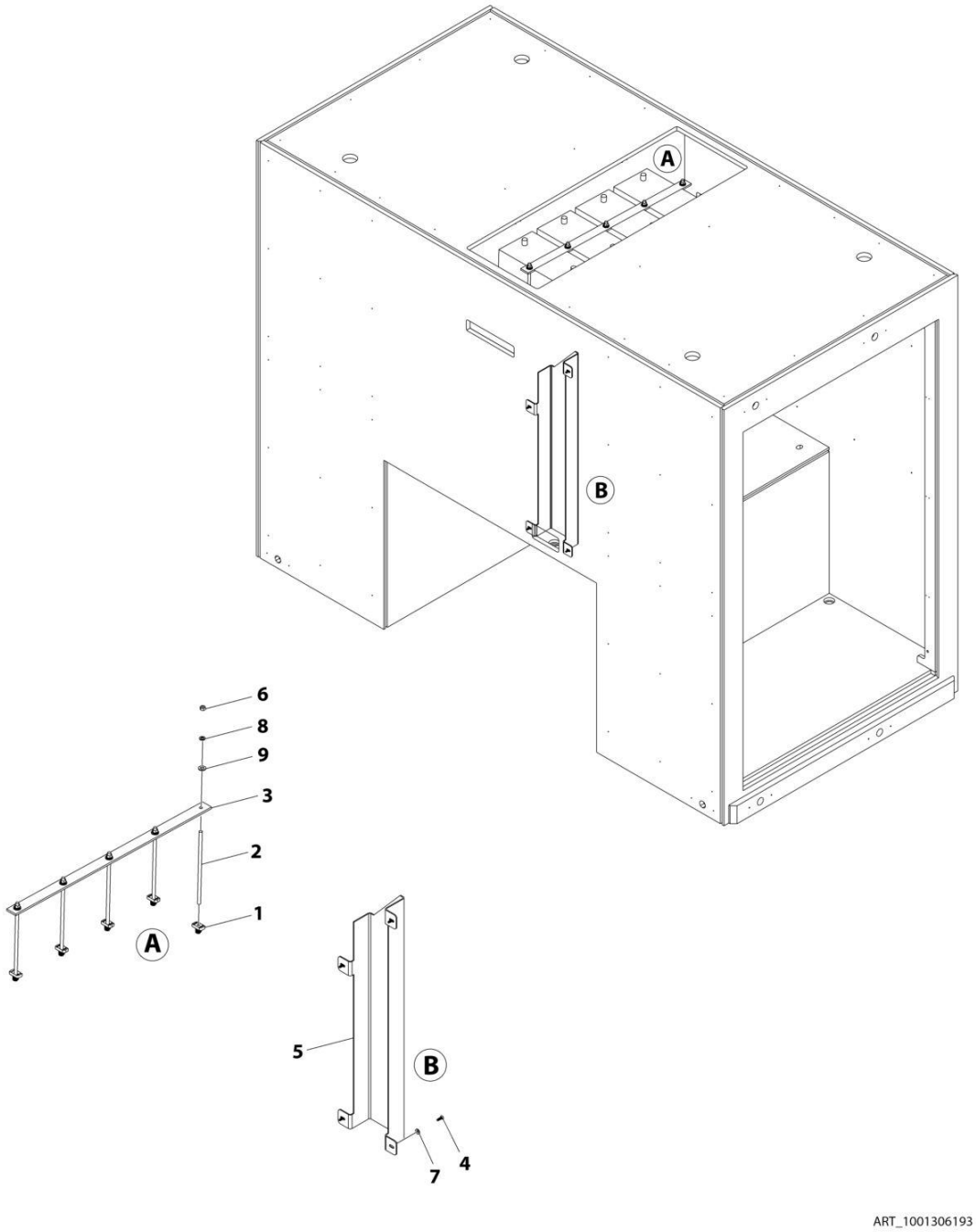
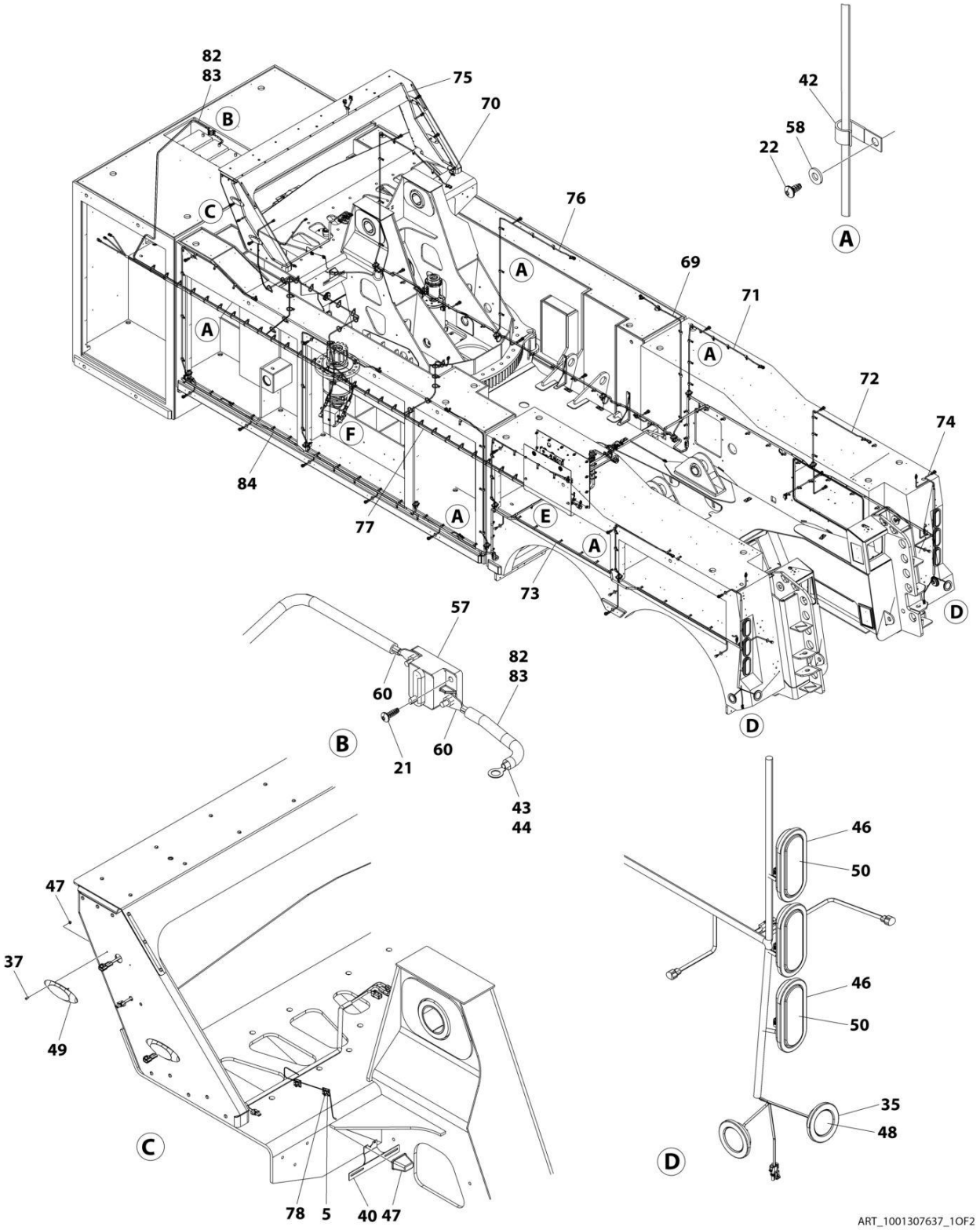


FIGURE 7-3. BATTERY RELOCATION INSTALLATION (HARDWARE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306193	Ref	BATTERY RELOCATION INSTALLATION	A
1	1001166644	5	Nut 3/8	
2	1001166670	5	Rod, Threaded 3/8	
3	1001183200	1	Bar, Hold Down	
4	1001194676	4	Screw 1/4 x 3/4	
5	1001306195	1	Channel	
6	7660160000	5	Nut 3/8	
7	7950140141	4	Washer 1/4	
8	7950160000	5	Washer 3/8	
9	7950160153	5	Washer 3/8	

FIGURE 7-4. BODY ELECTRICAL INSTALLATION - REAR AND MID WITHOUT AXLE



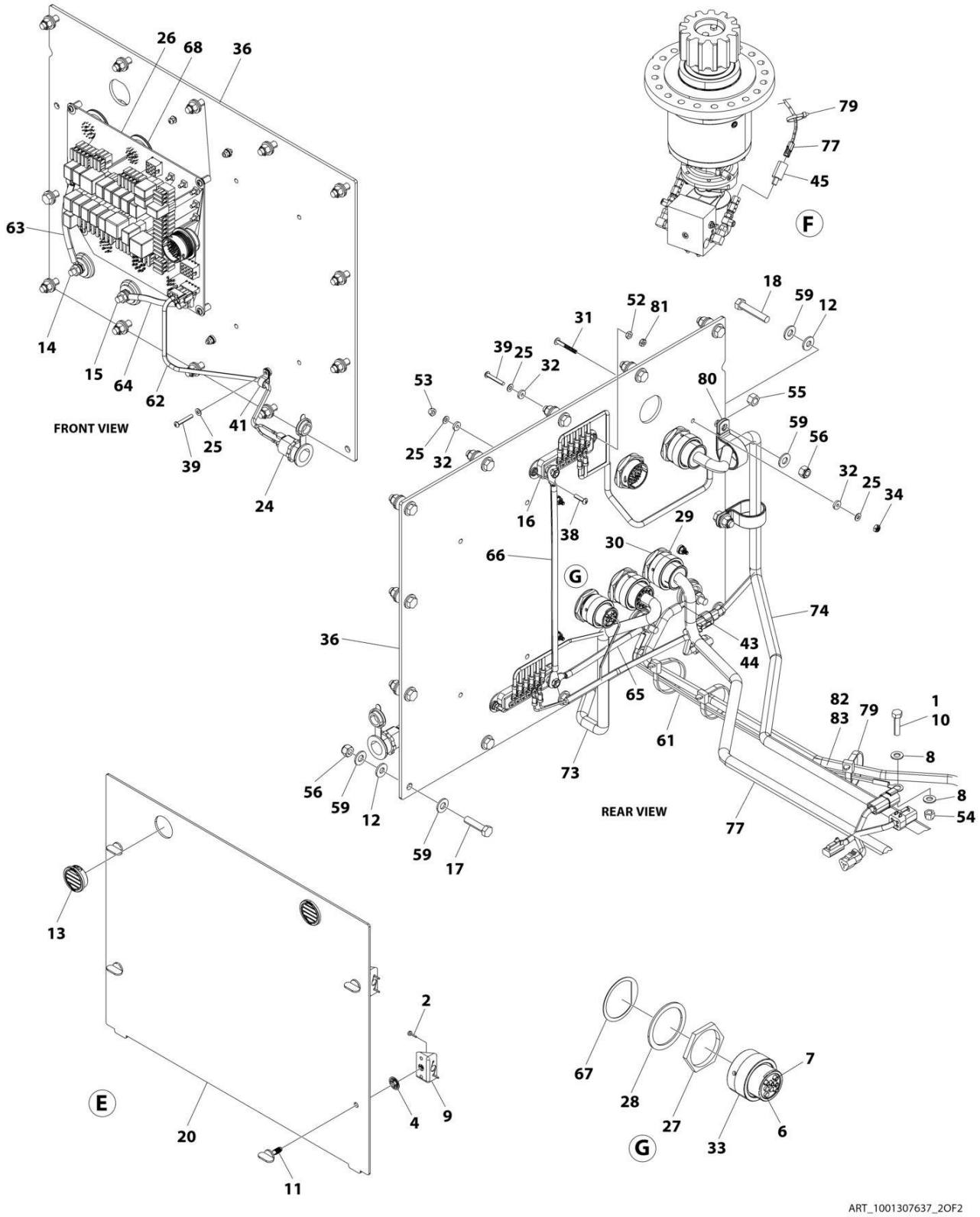
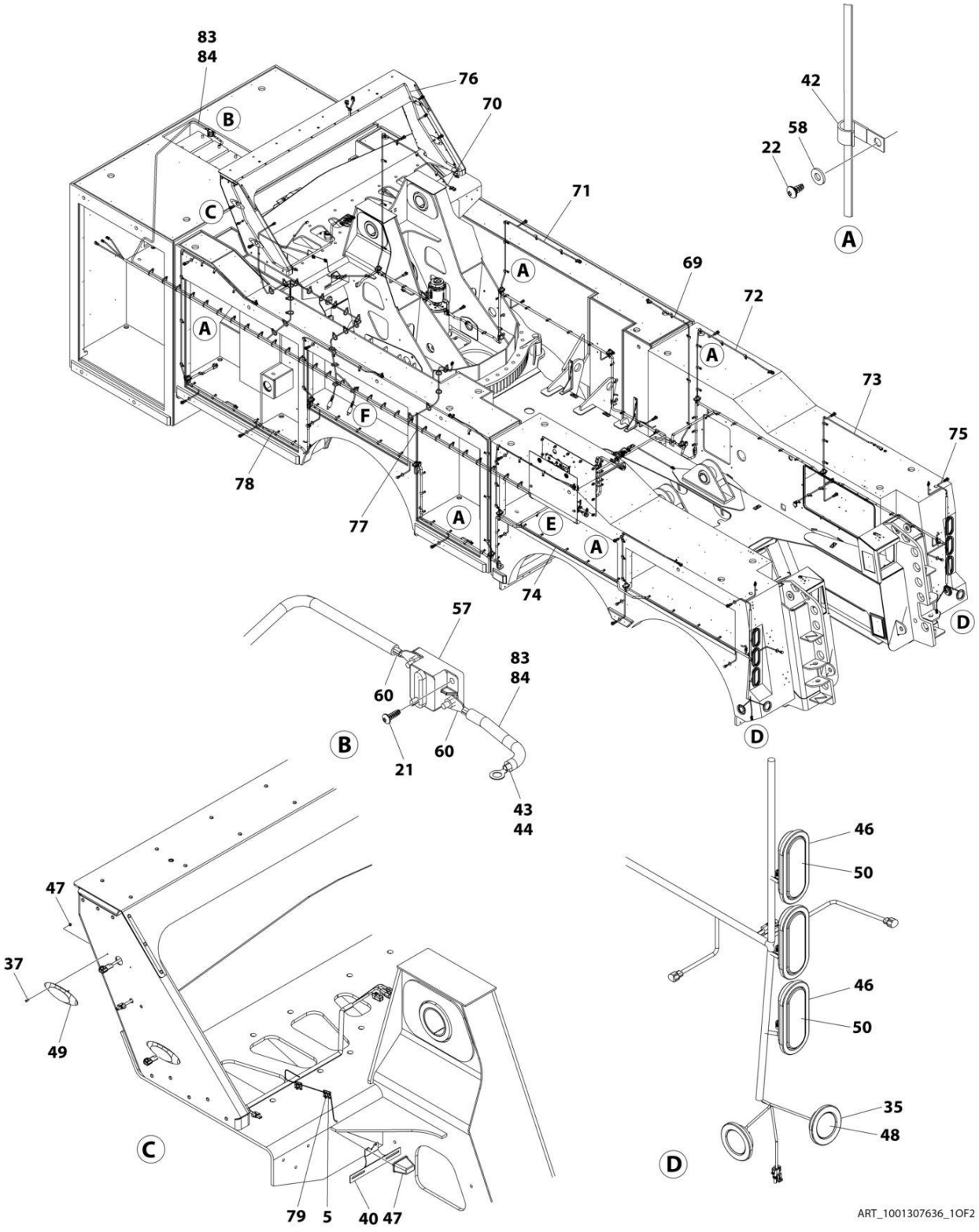

FRONT VIEW
REAR VIEW
ART_1001307637_2OF2

FIGURE 7-4. BODY ELECTRICAL INSTALLATION - REAR AND MID WITHOUT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307637	Ref	ELECTRICAL INSTALLATION	A
1	0641510	2	Bolt 5/16 x 1-1/4	
2	0750604	8	Screw	
3	1321385	10	Clamp	
4	3760308	4	Ring, Retaining	
5	4460234	2	Mount, Tie-Strap	
6	4460466	3	Plug, Terminal	
7	4460509	4	Terminal	
8	4711500	4	Washer 5/16	
9	1001122235	4	Bracket	
10	1001130310	AR	Adhesive	
11	1001166930	4	Latch	
12	1001166974	14	Washer 3/8	
13	1001167607	2	Plug, Vented	
14	1001168320	1	Terminal (Red)	
15	1001168321	1	Terminal (Black)	
16	1001168322	2	Terminal	
17	1001168993	12	Bolt 3/8 x 1-1/2	
18	1001169083	2	Bolt 3/8 x 2	
19	1001174680	2	Lamp, Backup	
20	1001191602	1	Panel, Coverplate	
21	1001194676	2	Screw 1/4 x 3/4	
22	1001195257	126	Screw 1/4 x 1/2	
23	1001196552	48	Screw #8 x 3/4	
24	1001201384	1	Socket	
25	1001201926	8	Washer #10	
26	1001203234	1	Panel, Electrical (See Separate Breakdown in this Section)	
27	1001204788	1	Nut	
28	1001204789	1	Washer	
29	1001205043	4	Nut	
30	1001205044	4	Washer	
31	1001207734	4	Screw	
32	1001207736	8	Washer #10	
33	1001208066	1	Connector	
34	1001208303	4	Nut #10	
35	1001220431	4	Grommet	
36	1001230207	1	Panel, Bulkhead	
37	7114080418	8	Screw #8 x 1/2	
38	7114100618	2	Screw #10 x 3/4	
39	7114101018	2	Screw #10 x 1-1/4	
40	7178000025	1	Bracket, License Plate	
41	7274000036	1	P-Clamp	
42	7280000006	121	Clip	
43	7345242202	2	Terminal	
44	7346000045	AR	Tubing	
45	7346000208	2	Switch, Pressure	
46	7493000026	6	Grommet	
47	7590000105	1	Light, License Plate	
48	7590000343	4	Light (Red)	
49	7590000358	4	Light, Marker (Amber)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	7590000370	4	Light	
51	7660082604	8	Nut #8	
52	7660100001	2	Nut #10	
53	7660102601	2	Nut #10	
54	7660152601	2	Nut 5/16	
55	7660160001	2	Nut 3/8	
56	7660162601	14	Nut 3/8	
57	7870000043	1	Breaker, Circuit 150AMP	
58	7950140141	126	Washer 1/4	
59	7950160143	28	Washer 3/8	
60	1001125479	2	Terminal, Ring	
61	1001168328	1	Cable, Chassis Ground	
62	1001209031	1	Harness, Tow Light (See Separate Breakdown in this Section)	
63	1001209040	1	Cable, PDP 12V	
64	1001209041	1	Cable, PDP Ground	
65	1001209042	1	Cable, Terminal Strip Ground	
66	1001209044	1	Cable, Terminal to Terminal Ground	
67	1001209365	1	Seal	
68	1001209366	4	Seal	
69	1001229447	2	Harness, Tunnel Rear (See Separate Breakdown in this Section)	
70	1001229468	2	Harness, Cabinet Mid Body (See Separate Breakdown in this Section)	
71	1001229478	2	Harness, Cabinet Rear Body (See Separate Breakdown in this Section)	
72	1001229519	2	Harness, Cabinet Rear Body (See Separate Breakdown in this Section)	
73	1001229563	1	Harness, Rear Body (LH) (See Separate Breakdown in this Section)	
74	1001229564	1	Harness, Rear Body (RH) (See Separate Breakdown in this Section)	
75	1001229985	1	Harness, Pylon Rotator (See Separate Breakdown in this Section)	
76	1001230159	2	Harness, Cabinet Mid Body (See Separate Breakdown in this Section)	
77	1001260459	1	Harness, Center (See Separate Breakdown in this Section)	
78	4240032	2	Tie-Strap	
79	5526000553	100	Tie-Strap	
80	7274000042	2	Clamp	
81	7661000002	2	Nut #10	
82	7978000011	40 ft	Cable	
83	8597650001	40 ft	Loom	
84	1001307729	2	Harness, Mid Body Main (See Separate Breakdown in this Section)	

FIGURE 7-5. BODY ELECTRICAL INSTALLATION - REAR AND MID WITH AXLE



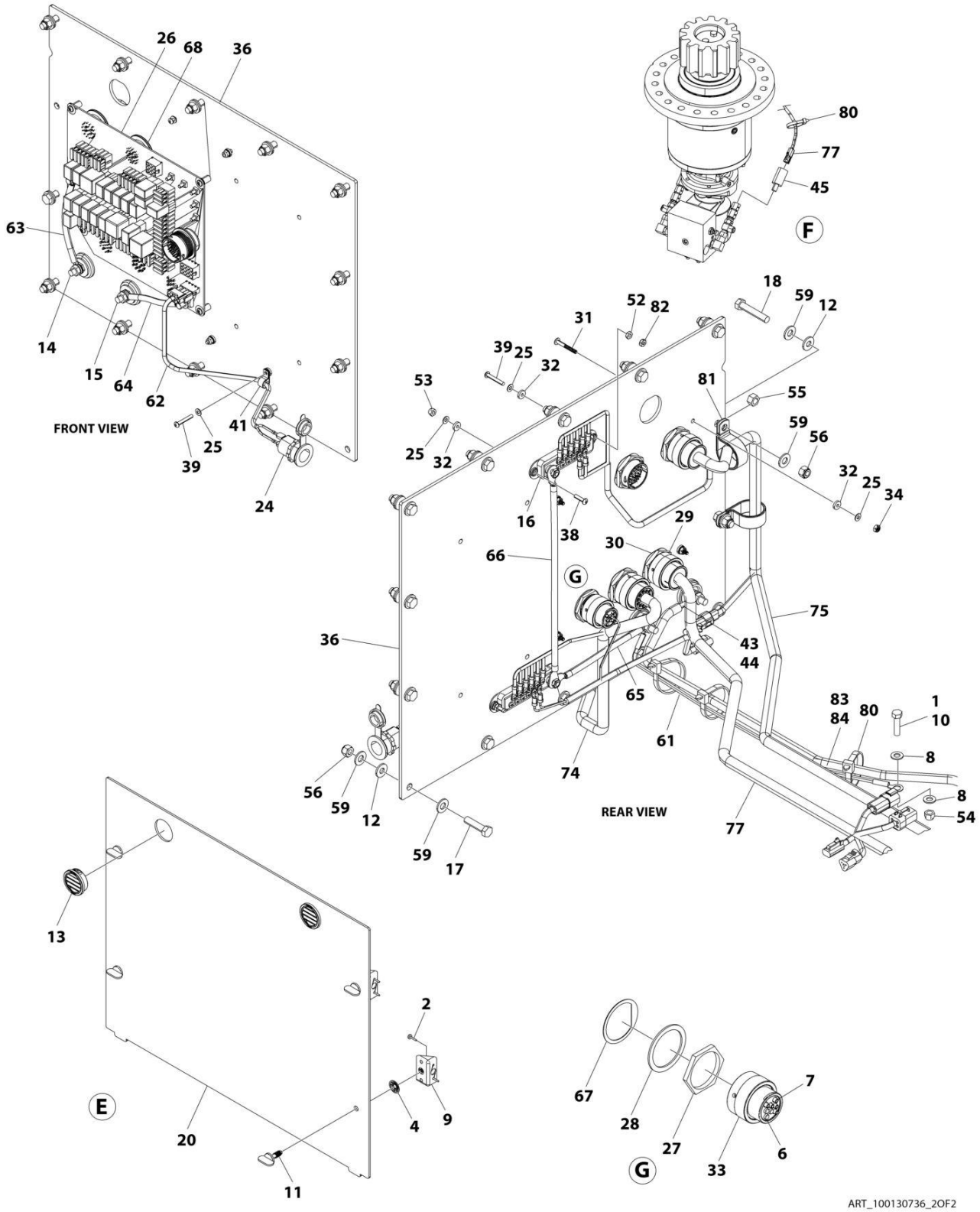

FRONT VIEW
REAR VIEW
ART_100130736_2OF2

FIGURE 7-5. BODY ELECTRICAL INSTALLATION - REAR AND MID WITH AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307636	Ref	ELECTRICAL INSTALLATION	A
1	0641510	2	Bolt 5/16 x 1-1/4	
2	0750604	8	Screw	
3	1321385	9	Clamp	
4	3760308	4	Ring, Retaining	
5	4460234	2	Mount, Tie-Strap	
6	4460466	3	Plug, Terminal	
7	4460509	4	Terminal	
8	4711500	4	Washer 5/16	
9	1001122235	4	Bracket	
10	1001130310	AR	Adhesive	
11	1001166930	4	Latch	
12	1001166974	14	Washer 3/8	
13	1001167607	2	Plug, Vented	
14	1001168320	1	Terminal (Red)	
15	1001168321	1	Terminal (Black)	
16	1001168322	2	Terminal	
17	1001168993	12	Bolt 3/8 x 1-1/2	
18	1001169083	2	Bolt 3/8 x 2	
19	1001174680	2	Lamp, Backup	
20	1001191602	1	Panel, Coverplate	
21	1001194676	2	Screw 1/4 x 3/4	
22	1001195257	140	Screw 1/4 x 1/2	
23	1001196552	48	Screw #8 x 3/4	
24	1001201384	1	Socket	
25	1001201926	8	Washer #10	
26	1001203234	1	Panel, Electrical (See Separate Breakdown in this Section)	
27	1001204788	1	Nut	
28	1001204789	1	Washer	
29	1001205043	4	Nut	
30	1001205044	4	Washer	
31	1001207734	4	Screw	
32	1001207736	8	Washer #10	
33	1001208066	1	Connector	
34	1001208303	4	Nut #10	
35	1001220431	4	Grommet	
36	1001230207	1	Panel, Bulkhead	
37	7114080418	8	Screw #8 x 1/2	
38	7114100618	2	Screw #10 x 3/4	
39	7114101018	2	Screw #10 x 1-1/4	
40	7178000025	1	Bracket, License Plate	
41	7274000036	1	P-Clamp	
42	7280000006	133	Clip	
43	7345242202	2	Terminal	
44	7346000045	AR	Tubing	
45	7346000208	2	Switch, Pressure	
46	7493000026	6	Grommet	
47	7590000105	1	Light, License Plate	
48	7590000343	4	Light (Red)	
49	7590000358	4	Light, Marker (Amber)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	7590000370	4	Light	
51	7660082604	8	Nut #8	
52	7660100001	2	Nut #10	
53	7660102601	2	Nut #10	
54	7660152601	2	Nut 5/16	
55	7660160001	2	Nut 3/8	
56	7660162601	14	Nut 3/8	
57	7870000043	1	Breaker, Circuit 150AMP	
58	7950140141	143	Washer 1/4	
59	7950160143	28	Washer 3/8	
60	1001125479	2	Terminal, Ring	
61	1001168328	1	Cable, Chassis Ground	
62	1001209031	1	Harness, Tow Light (See Separate Breakdown in this Section)	
63	1001209040	1	Cable, PDP 12V	
64	1001209041	1	Cable, PDP Ground	
65	1001209042	1	Cable, Terminal Strip Ground	
66	1001209044	1	Cable, Terminal to Terminal Ground	
67	1001209365	1	Seal	
68	1001209366	4	Seal	
69	1001229447	2	Harness, Tunnel Rear (See Separate Breakdown in this Section)	
70	1001229468	2	Harness, Cabinet Mid Body (See Separate Breakdown in this Section)	
71	1001229476	2	Harness, Cabinet Mid Body (See Separate Breakdown in this Section)	
72	1001229478	2	Harness, Cabinet Rear Body (See Separate Breakdown in this Section)	
73	1001229519	2	Harness, Cabinet Rear Body (See Separate Breakdown in this Section)	
74	1001229563	1	Harness, Rear Body (LH) (See Separate Breakdown in this Section)	
75	1001229564	1	Harness, Rear Body (RH) (See Separate Breakdown in this Section)	
76	1001229985	1	Harness, Pylon Rotator (See Separate Breakdown in this Section)	
77	1001260459	1	Harness, Center (See Separate Breakdown in this Section)	
78	1001307727	2	Harness, Mid Body Main (See Separate Breakdown in this Section)	
79	4240032	2	Tie-Strap	
80	5526000553	100	Tie-Strap	
81	7274000042	2	Clamp	
82	7661000002	2	Nut #10	
83	7978000011	40 ft	Cable	
84	8597650001	40 ft	Loom	

FIGURE 7-6. CABINET MID BODY HARNESS (WITHOUT AXLE)

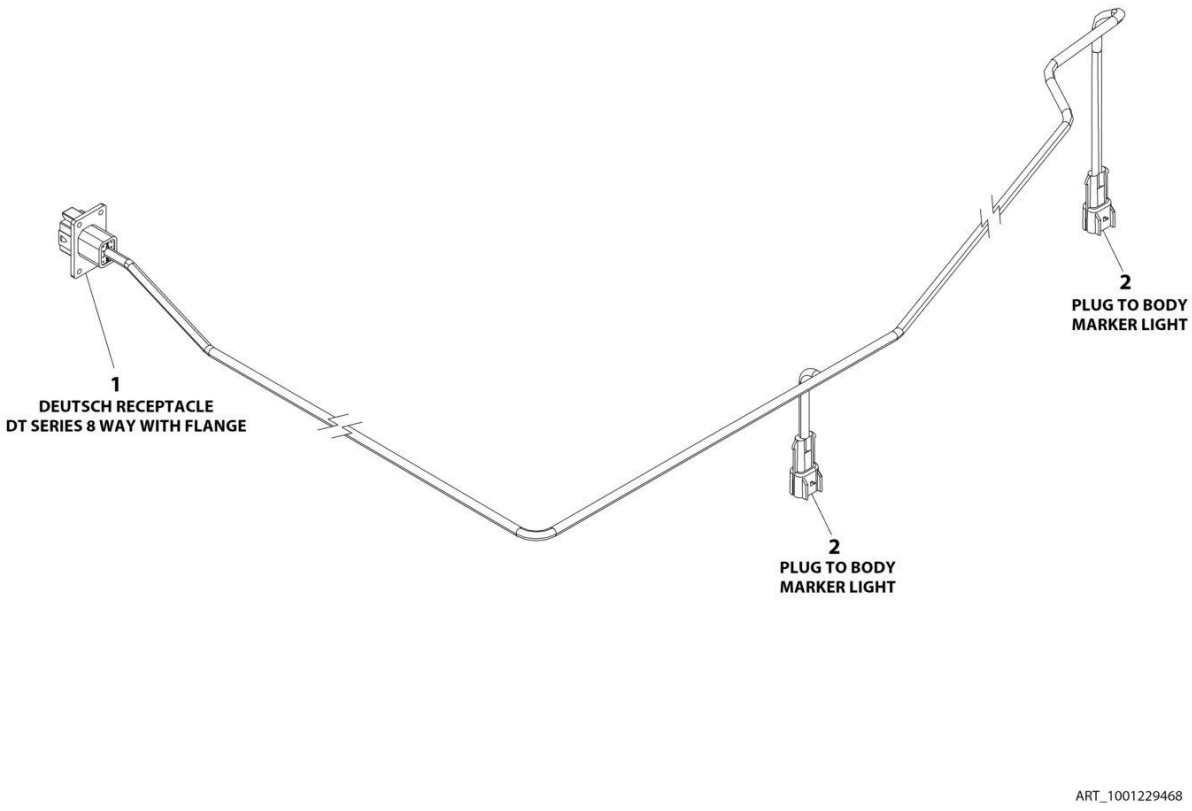


FIGURE 7-6. CABINET MID BODY HARNESS (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229468	Ref	CABINET MID BODY HARNESS	A
1	1001269275	1	Connector	
1	91503106	1	Wedge, Locking	
1	4460464	2	Pin	
1	4460466	4	Plug	
2	NPN	1	Gasket	
2	1001117026	1	Connector	
2	1001116745	2	Socket	
2	4460458	2	Seal	

FIGURE 7-7. CABINET MID BODY HARNESS (WITHOUT AXLE)

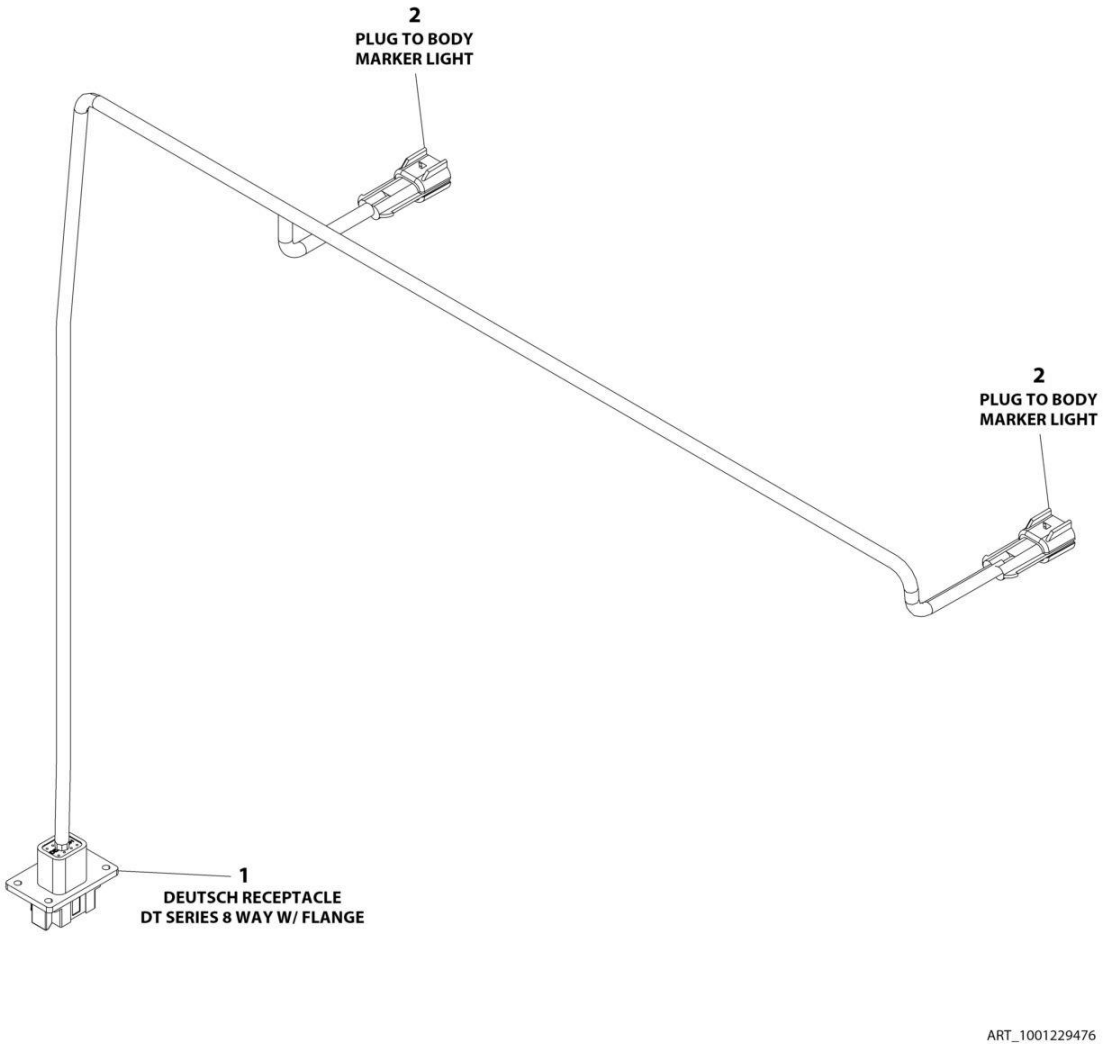


FIGURE 7-7. CABINET MID BODY HARNESS (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229476	Ref	CABINET MID BODY HARNESS	A
1	1001269275	1	Connector 8 Position	
1	4460464	2	Terminal	
1	4460466	6	Plug, Terminal	
1		Ref	**Gasket**	
2	1001117026	2	Connector 2 Position	
2	1001116745	2	Terminal	
2	4460458	2	Seal	

FIGURE 7-8. CABINET MID BODY HARNESS - WITHOUT AXLE

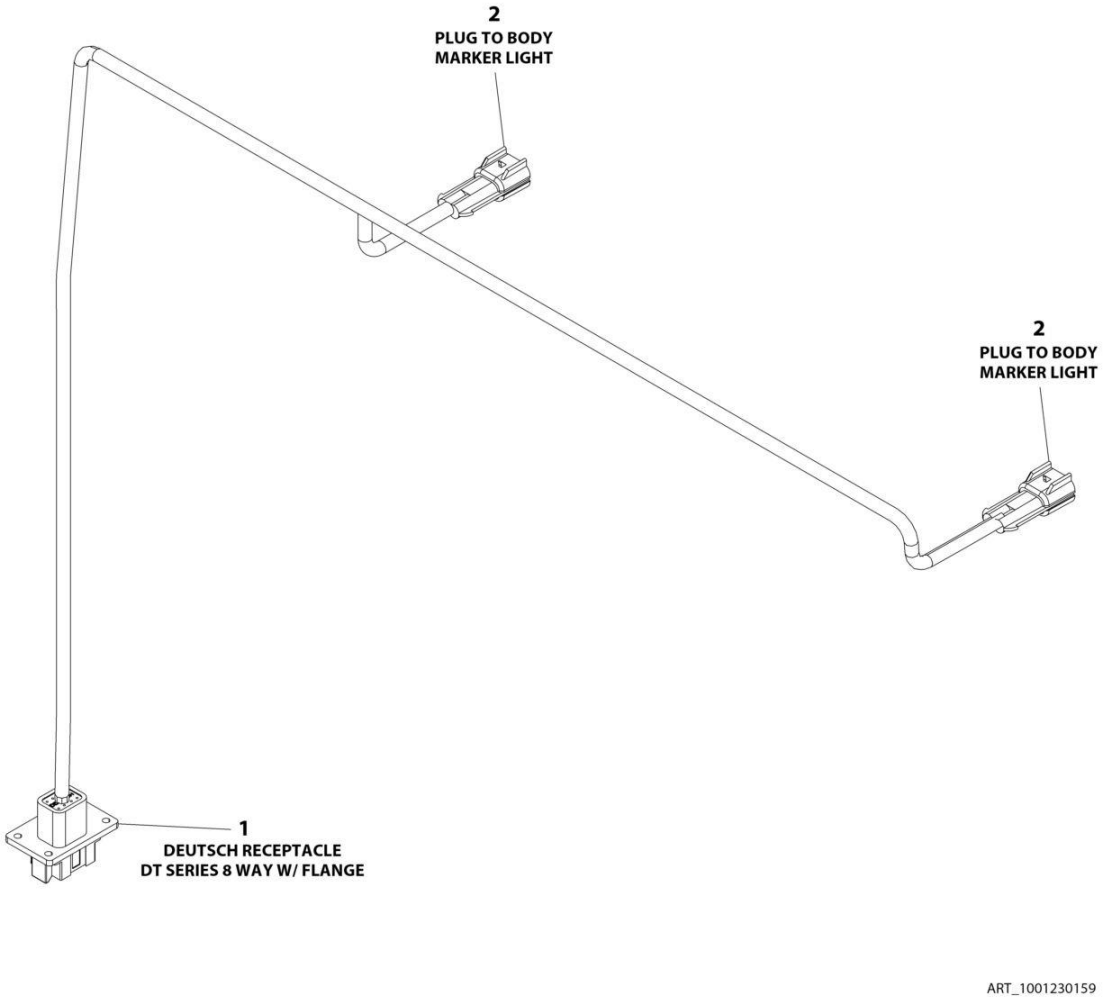


FIGURE 7-8. CABINET MID BODY HARNESS - WITHOUT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001230159	Ref	CABINET MID BODY HARNESS	A
1	1001269275	1	Connector 8 Position	
1	4460464	2	Terminal	
1	4460466	6	Plug, Terminal	
1		Ref	**Gasket**	
2	1001117026	2	Connector 2 Position	
2	1001116745	2	Terminal	
2	4460458	2	Seal	

FIGURE 7-9. CABINET MID BODY HARNESS - TUNNEL (SHORT)

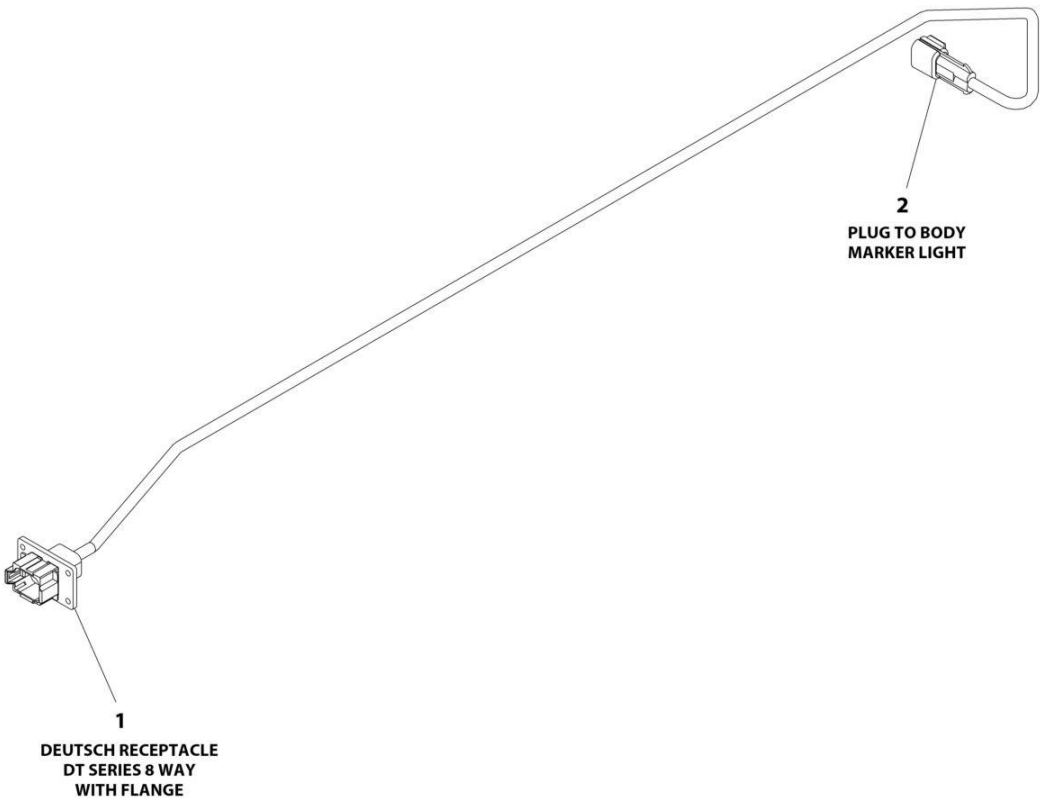


FIGURE 7-9. CABINET MID BODY HARNESS - TUNNEL (SHORT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229477	Ref	CABINET MID BODY HARNESS	A
1	4460984	1	Connector 8 Position	
1	4460464	2	Terminal	
1	4460466	6	Plug, Terminal	
2	1001177650	1	Connector 2 Position	
2	1001116745	1	Terminal	
2	4460458	1	Seal	

FIGURE 7-10. CABINET REAR BODY HARNESS (WITHOUT AXLE)

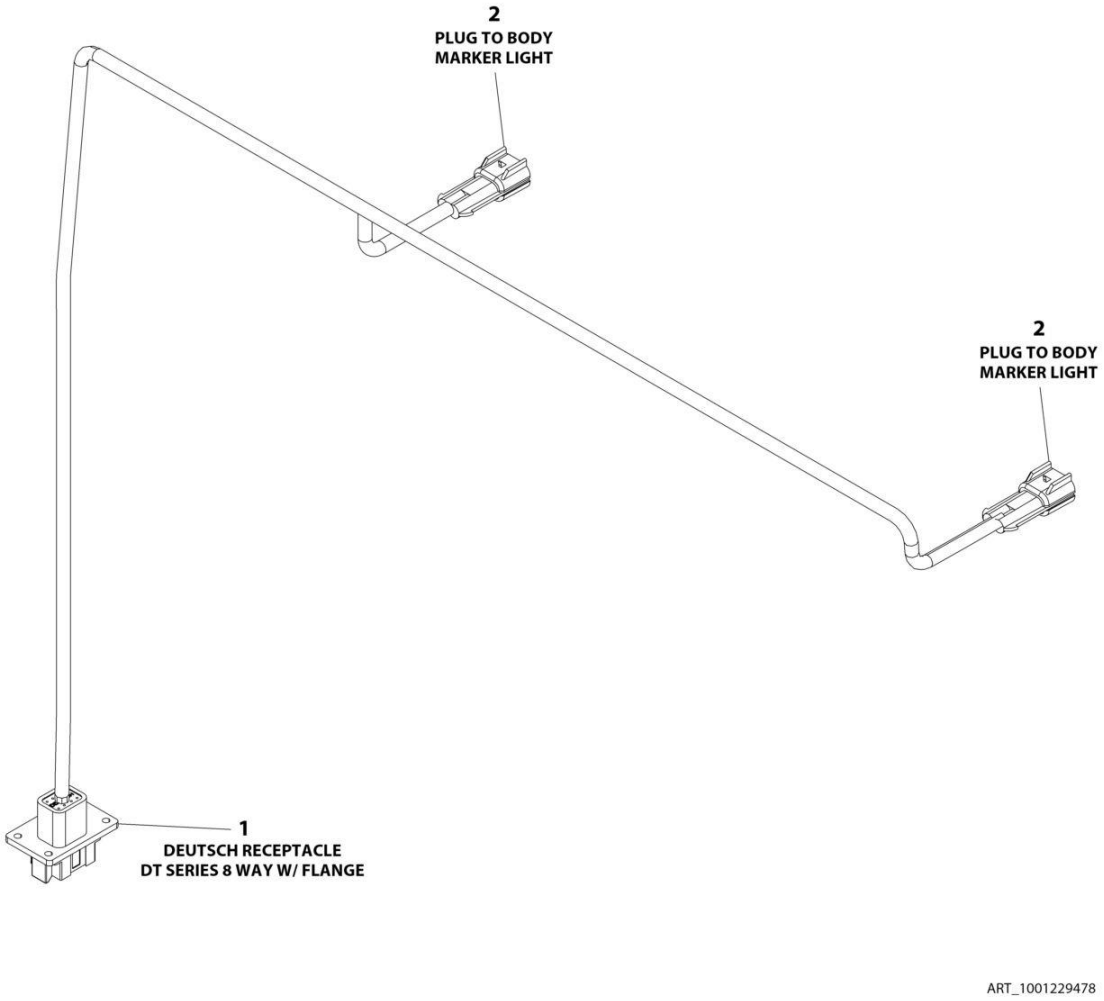


FIGURE 7-10. CABINET REAR BODY HARNESS (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229478	Ref	CABINET REAR BODY HARNESS	A
1	1001269275	1	Connector 8 Position	
1	4460464	2	Terminal	
1	4460466	6	Plug, Terminal	
1		Ref	**Gasket**	
2	1001117026	2	Connector 2 Position	
2	1001116745	2	Terminal	
2	4460458	2	Seal	

FIGURE 7-11. CABINET REAR BODY HARNESS (WITHOUT AXLE)

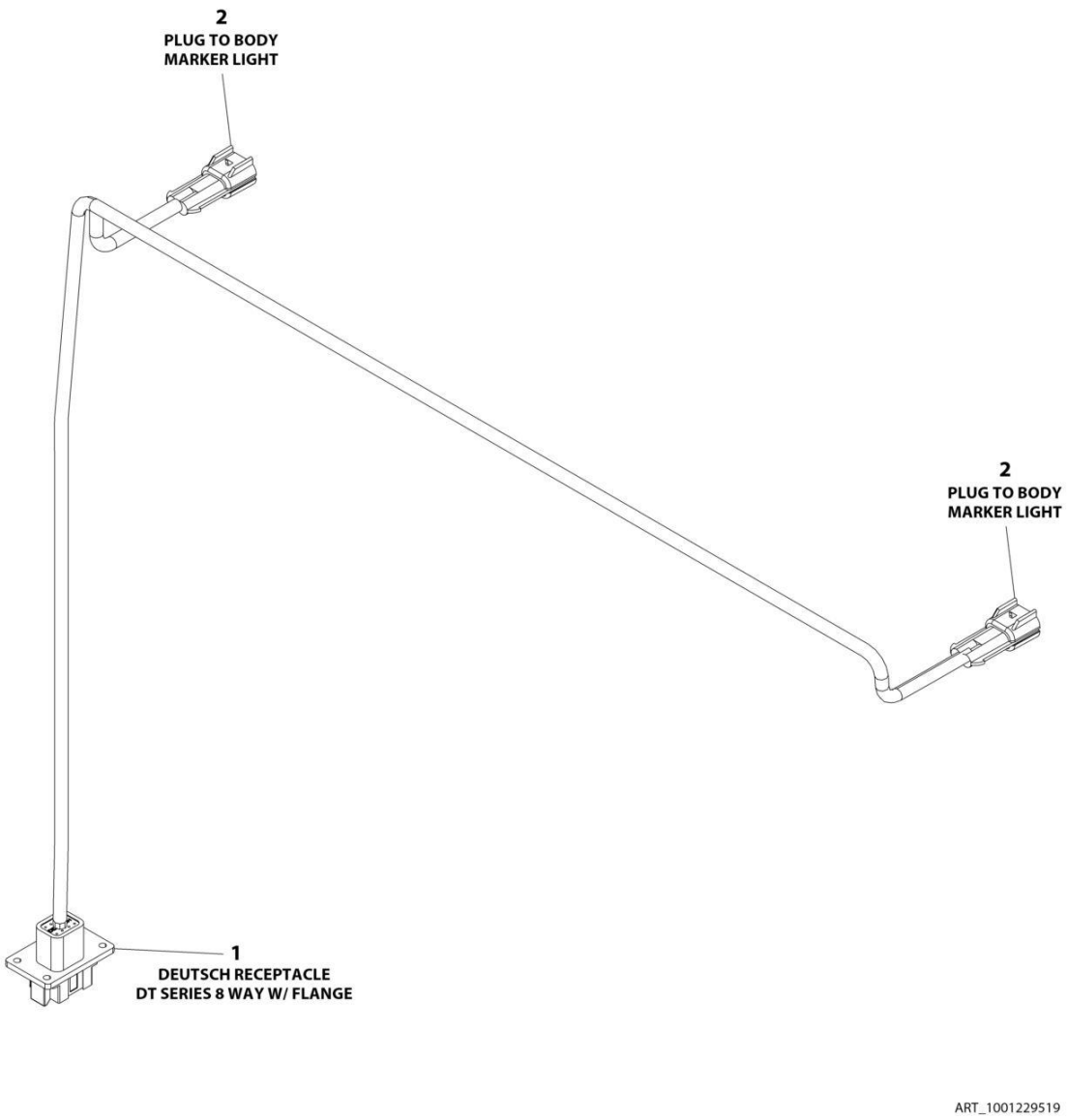


FIGURE 7-11. CABINET REAR BODY HARNESS (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229519	Ref	CABINET REAR BODY HARNESS	A
1	1001269275	1	Connector 8 Position	
1	4460464	2	Terminal	
1	4460466	6	Plug, Terminal	
1		Ref	**Gasket**	
2	1001117026	2	Connector 2 Position	
2	1001116745	2	Terminal	
2	4460458	2	Seal	

FIGURE 7-12. CAMERA SPADE CAB MOUNT INSTALLATION - BACK UP

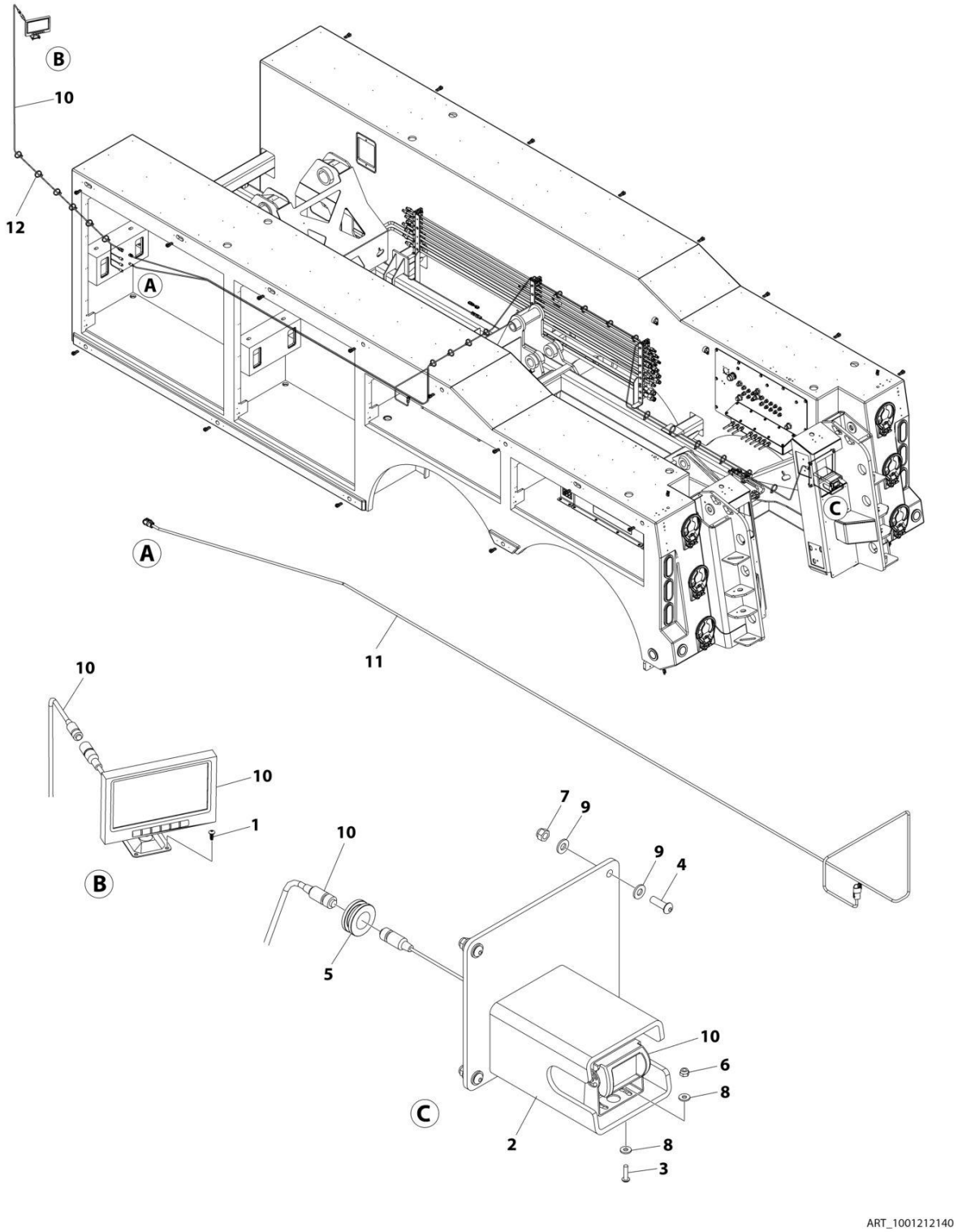


FIGURE 7-12. CAMERA SPADE CAB MOUNT INSTALLATION - BACK UP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212140	Ref	Back-Up Camera Spade Cab Mount Installation	B
1	1001192958	4	Screw, #10 x 1/2	
2	3178000547	1	Bracket	
3	7114100618	2	Capscrew #10 x 3/4	
4	7114150818	4	Capscrew 5/16 x 1	
5	7493000003	1	Grommet	
6	7660102601	2	Nut #10	
7	1660152601	4	Nut 5/16	
8	7950100143	4	Washer 3/16	
9	7950150143	8	Washer 5/16	
10	1001219309	1	Kit, Camera (Back-up)	
11	1001215151	1	Harness	D
11	4460539	1	Connector 3 Position	
11	4460465	3	Terminal	
12	5526000553	30	Tie Strap	

FIGURE 7-13. NO SPADE CAMERA - UP

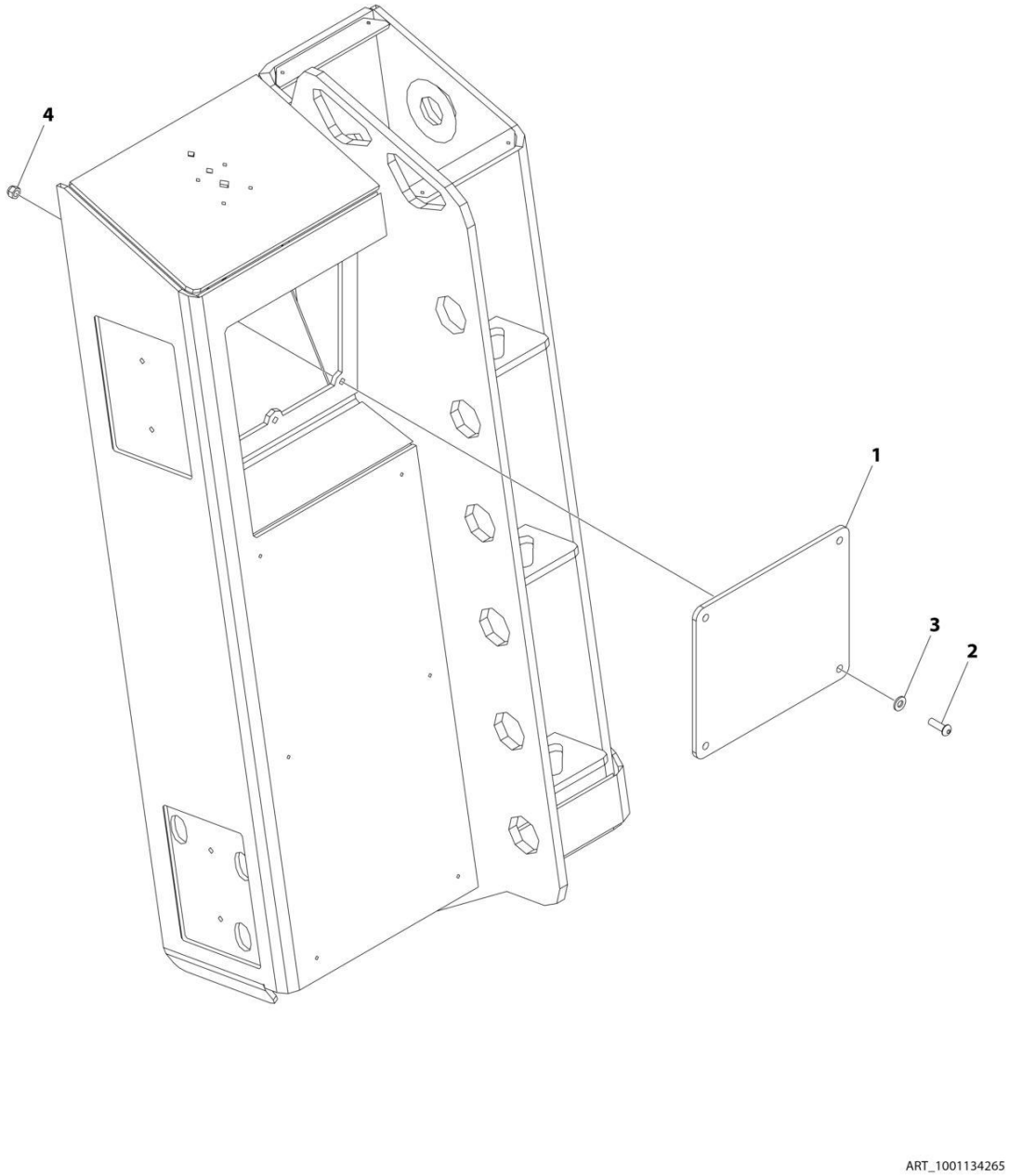


FIGURE 7-13. NO SPADE CAMERA - UP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001134265	Ref	COVER INSTALLATION (WITHOUT CAMERA)	A
1	1001134266	1	Plate	
2	7114150818	4	Capscrew 5/16 x 1	
3	7950150143	4	Washer 5/16	
4	7660152604	4	Nut 5/16	

FIGURE 7-14. CAMERA INSTALLATION - BACK UP (PACCAR)

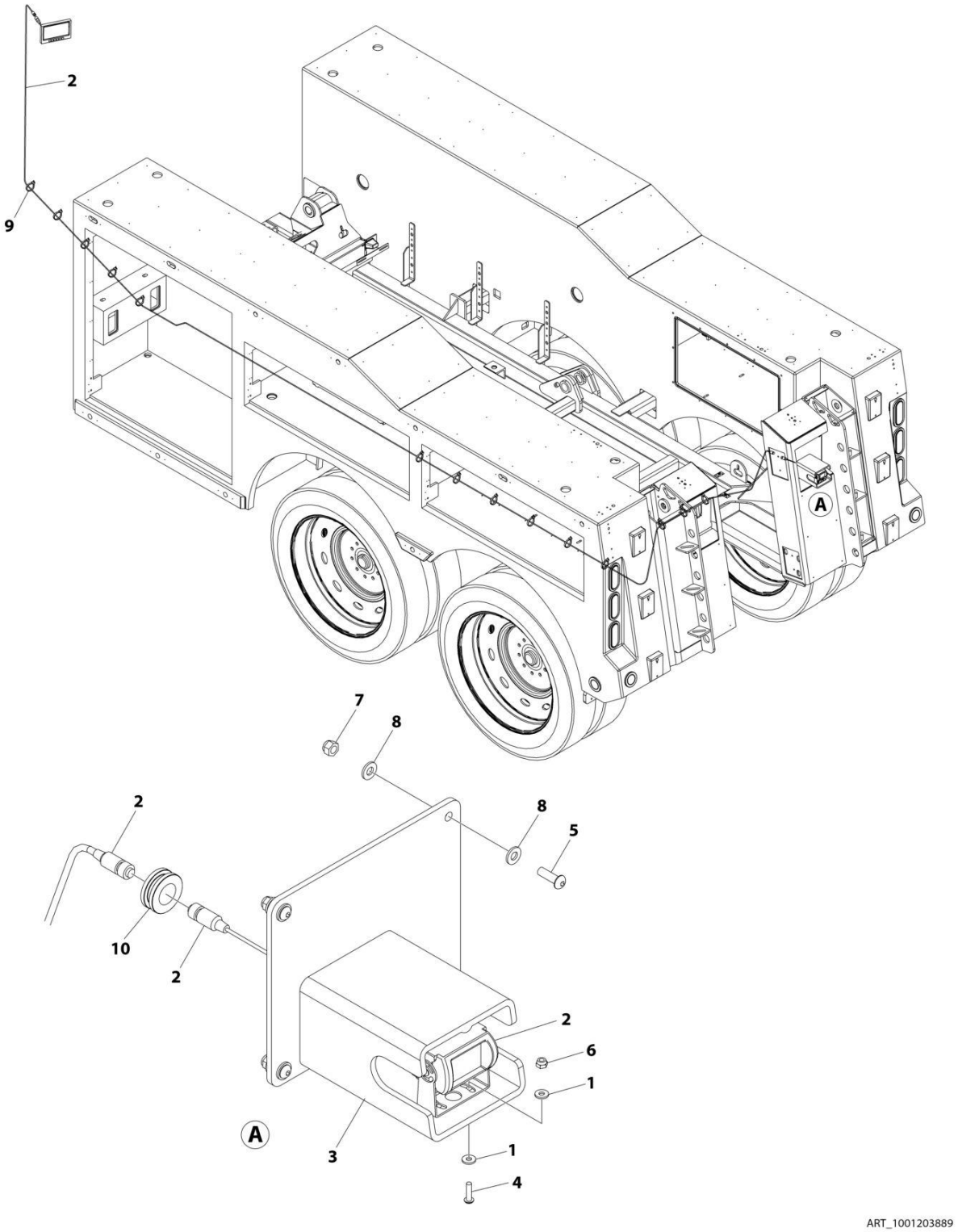


FIGURE 7-14. CAMERA INSTALLATION - BACK UP (PACCAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001203889	Ref	Back-Up Camera Paccar Installation	C
1	7950100143	4	Washer 3/16	
2	1001204558	1	Kit, Camera (Back-up)	
3	3178000547	1	Bracket	
4	7114100618	2	Capscrew #10 x 3/4	
5	7114150818	4	Capscrew 5/16 x 1	
6	7660102601	2	Nut #10	
7	7660152601	4	Nut 5/16	
8	7950150143	8	Washer 5/16	
9	5526000553	30	Tie Strap	
10	7493000003	1	Grommet	

FIGURE 7-15. CAMERA INSTALLATION - BACK UP (BRACKETS ONLY)

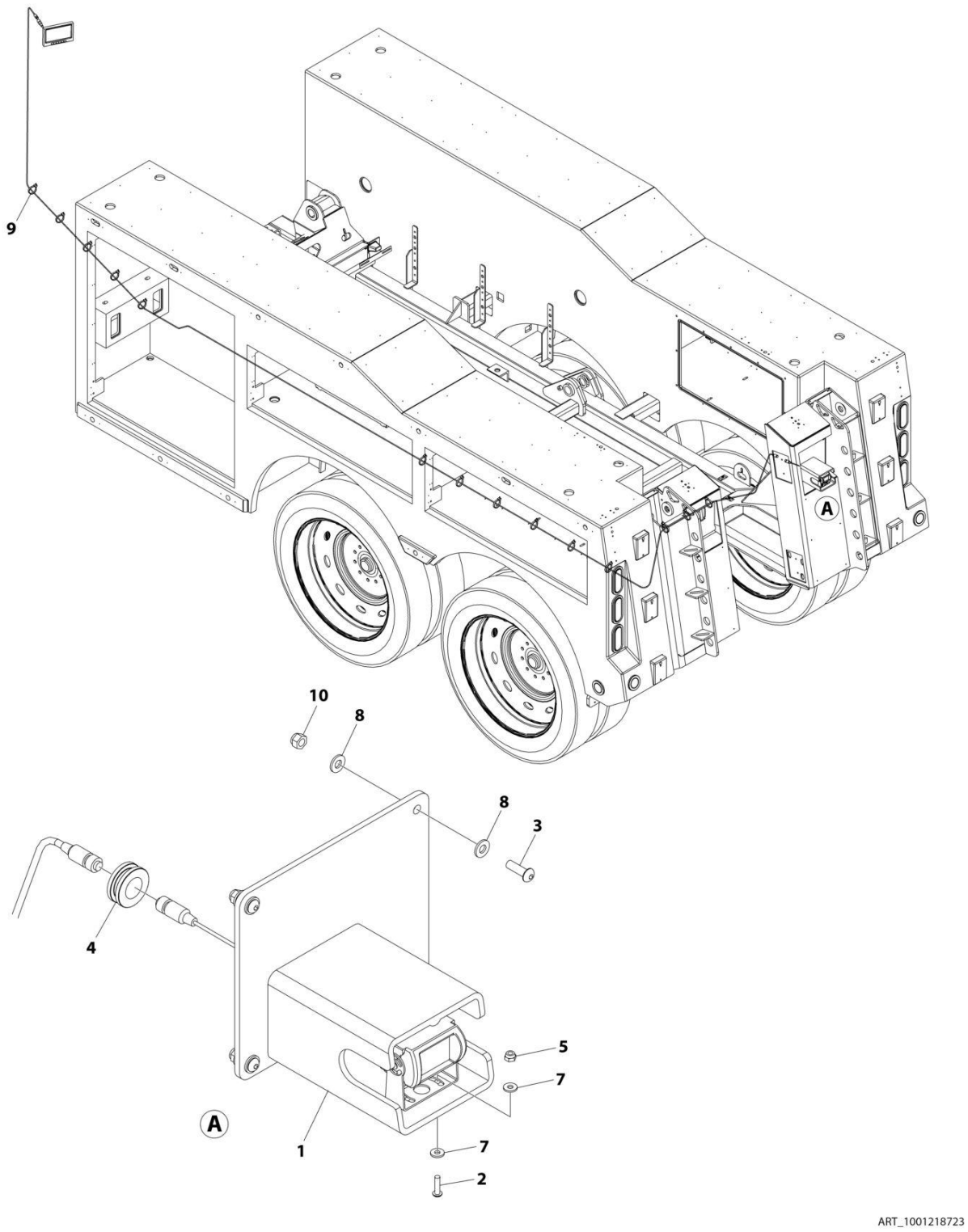


FIGURE 7-15. CAMERA INSTALLATION - BACK UP (BRACKETS ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218723	Ref	Back-Up Camera Installation	A
1	3178000547	1	Bracket	
2	7114100618	2	Capscrew #10 x 3/4	
3	7114150818	4	Capscrew 5/16 x 1	
4	7493000003	1	Grommet	
5	7660102601	2	Nut #10	
7	7950100143	4	Washer 3/16	
8	7950150143	8	Washer 5/16	
9	5526000553	30	Tie Strap	
10	7660152601	4	Nut 5/16	

FIGURE 7-16. CAMERA INSTALLATION - UNDERLIFT MOUNTED

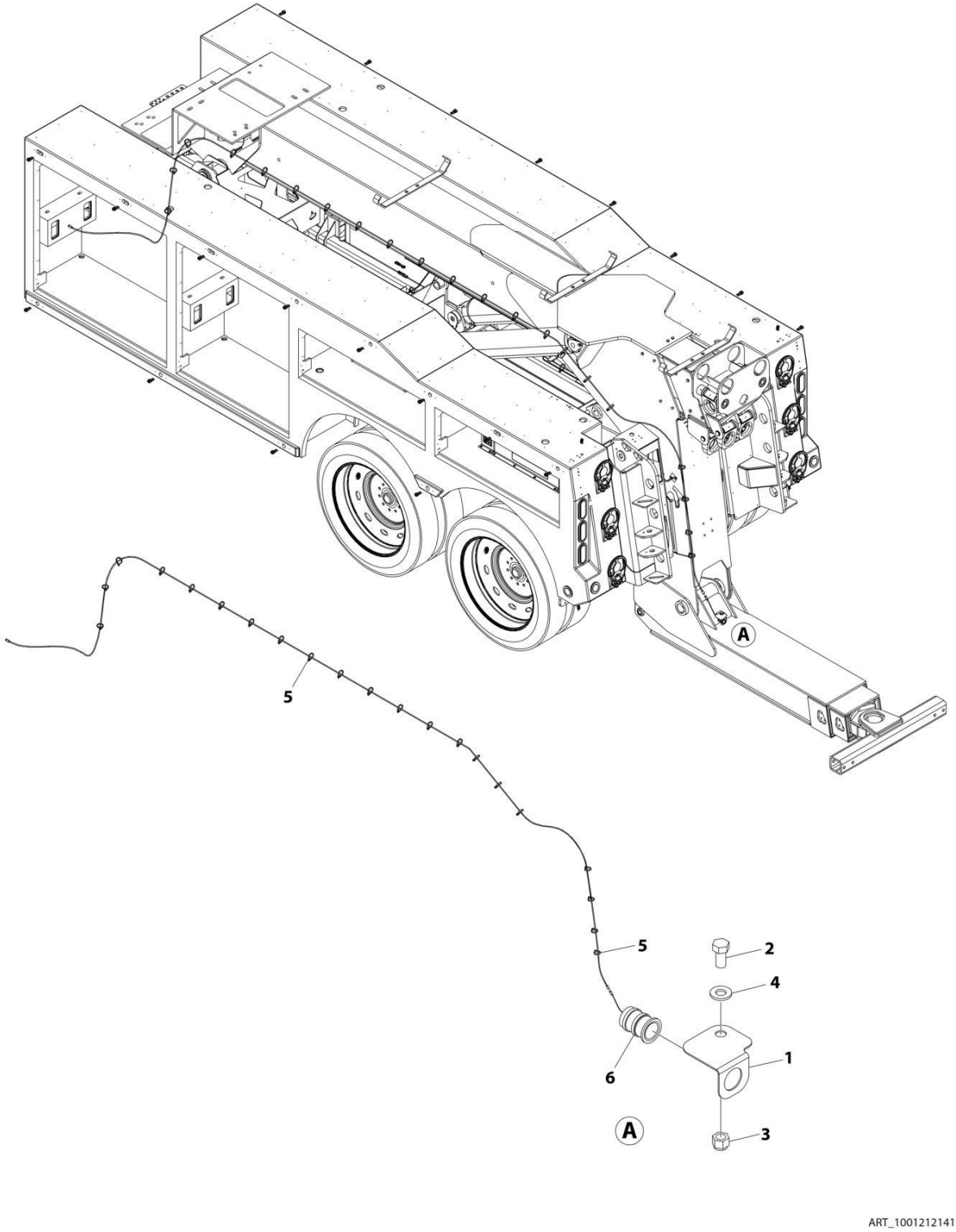


FIGURE 7-16. CAMERA INSTALLATION - UNDERLIFT MOUNTED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212141	Ref	Underlift Camera Installation	B
1	4178000889	1	Bracket **(SN 0230005220 through 0230009593)**	
1	1001164102	1	Bracket **(SN 0230009594 to Present)**	
2	7115180850	1	Capscrew 1/2 x 1	
3	7660182601	1	Nut 1/2	
4	7950100143	1	Washer 3/16	
5	5526000553	21	Tie Strap	
6	7002000555	1	Kit, Camera (Back-up) **(SN 0230005220 through 0230009593)**	
6	1001273598	1	Kit, Camera (Back-up) **(SN 0230009594 to Present)**	

FIGURE 7-17. CAMERA INSTALLATION - UNDERLIFT MOUNTED (PACCAR)

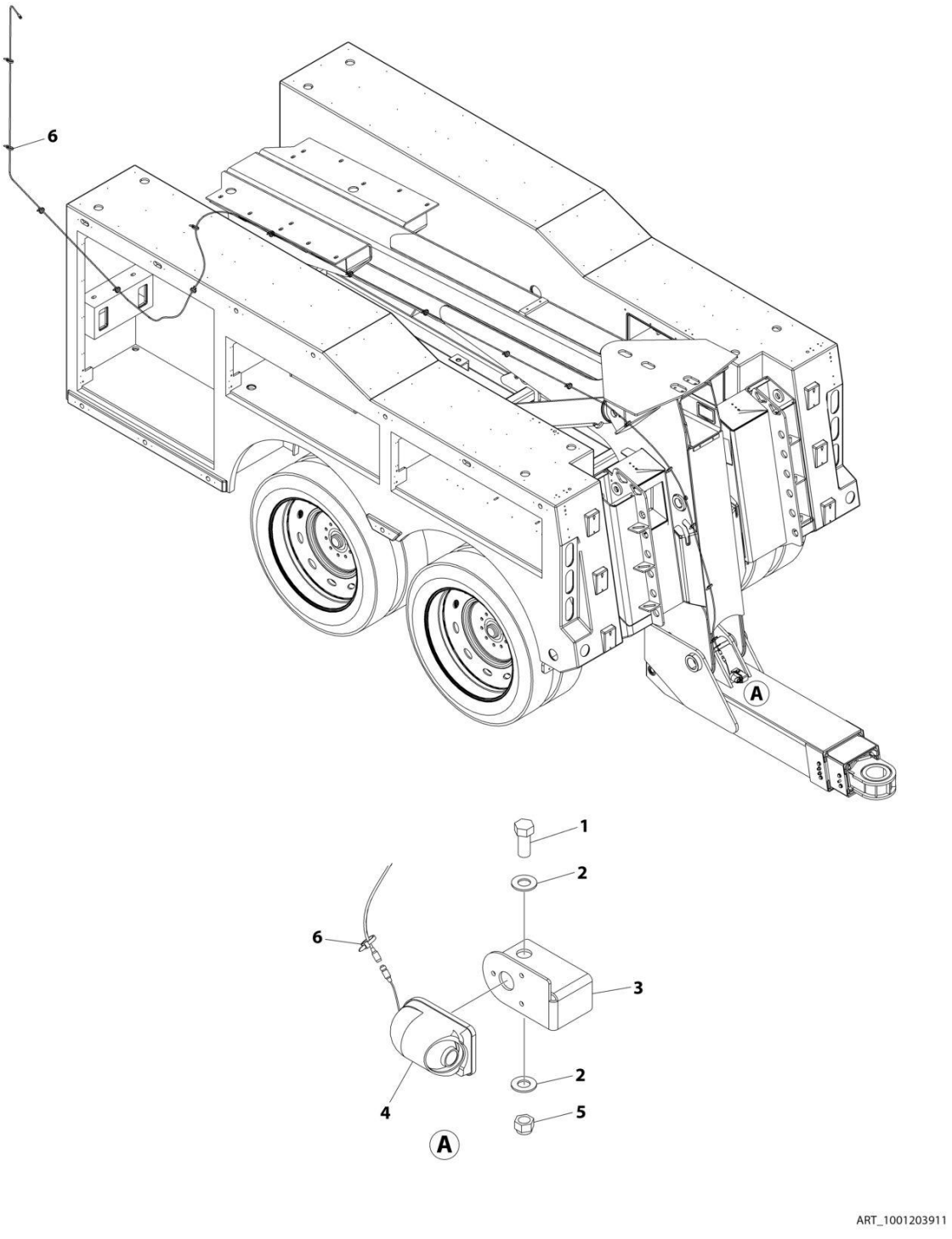


FIGURE 7-17. CAMERA INSTALLATION - UNDERLIFT MOUNTED (PACCAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001203911	Ref	Underlift Camera Paccar Installation	A
1	0641708	1	Capscrew 7/16 x 1	
2	4711700	2	Washer 7/16	
3	1001164102	1	Bracket	
4	1001204595	1	Kit, Camera (Underlift) (Paccar)	
5	7660172601	1	Nut 7/16	
6	7854000004	30	Tie Strap	

FIGURE 7-18. CAMERA INSTALLATION - UNDERLIFT MOUNTED ONLY

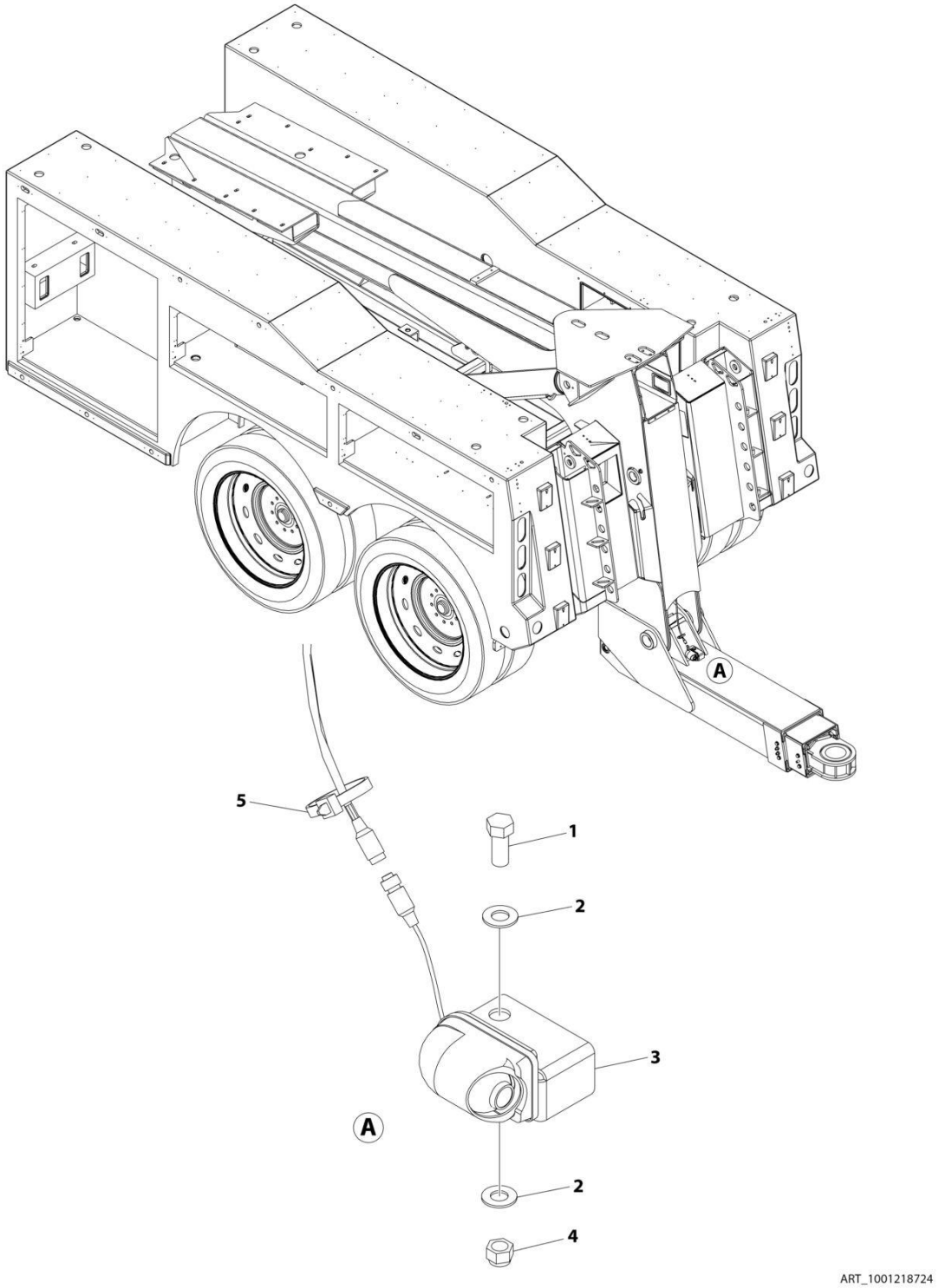


FIGURE 7-18. CAMERA INSTALLATION - UNDERLIFT MOUNTED ONLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218724	Ref	Underlift Camera Installation - Brackets	A
1	0641708	1	Capscrew 7/16 x 1	
2	4711700	2	Washer 7/16	
3	1001164102	1	Bracket, Underlift Camera Mount	
4	7660172601	1	Nut 7/16	
5	5526000553	40	Tie Strap	

FIGURE 7-19. CENTER HARNESS - 264 CT HDR

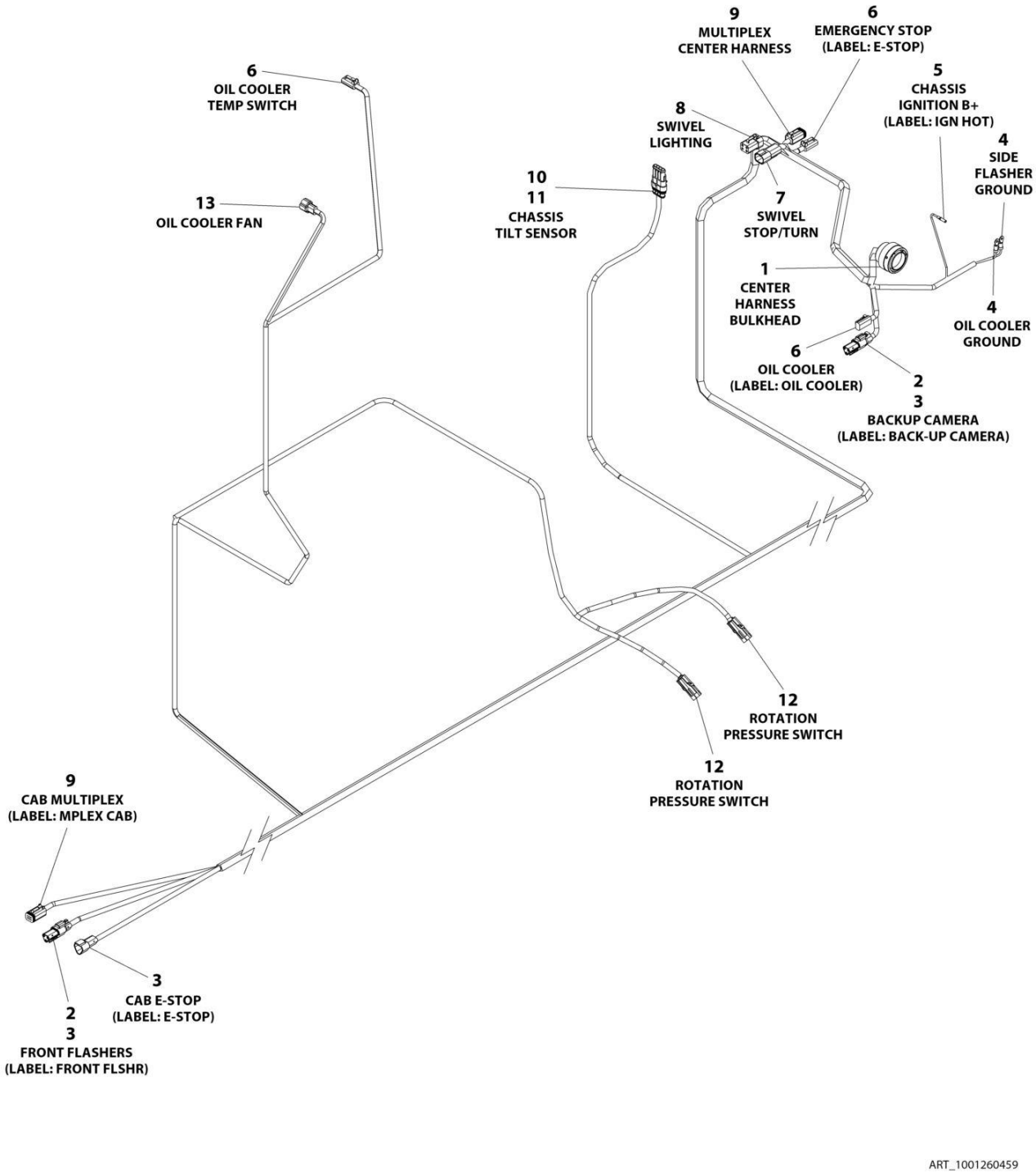


FIGURE 7-19. CENTER HARNESS - 264 CT HDR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001260459	Ref	CENTER HARNESS	A
1	1001269276	1	Connector 19 Position	
1	4460509	10	Terminal	
1	4460465	6	Terminal	
1	4460466	3	Plug, Terminal	
2	4460539	2	Connector 3 Position	
2	4460465	3	Terminal	
2	4490942	3	Terminal	
3	4460536	3	Connector 3 Position	
3	4490941	1	Terminal	
3	4460464	2	Terminal	
3	4460466	6	Plug, Terminal	
4		Ref	Terminal, Ring	
5		Ref	Terminal	
6	4460891	3	Connector 3 Position	
6	4490942	3	Terminal	
6	4460465	2	Terminal	
6	4460466	1	Plug, Terminal	
7	1001116811	1	Connector 4 Position	
7	4460508	4	Terminal	
8	1001116810	1	Connector 4 Position	
8	4460509	4	Terminal	
9	4460884	2	Connector 4 Position	
9	4460465	6	Terminal	
9	4460466	2	Plug, Terminal	
10	1001103012	1	Connector 4 Position	
10	1001107854	4	Terminal	
11	1001103013	1	Connector 4 Position	
11	1001116698	4	Plug, Terminal	
12	4461157	2	Connector 2 Position	
12	4460475	4	Terminal	
13	4460897	1	Connector 2 Position	
13	4490941	2	Terminal	

FIGURE 7-20. DRAG WINCH ELECTICAL 2 SPEED HARNESS

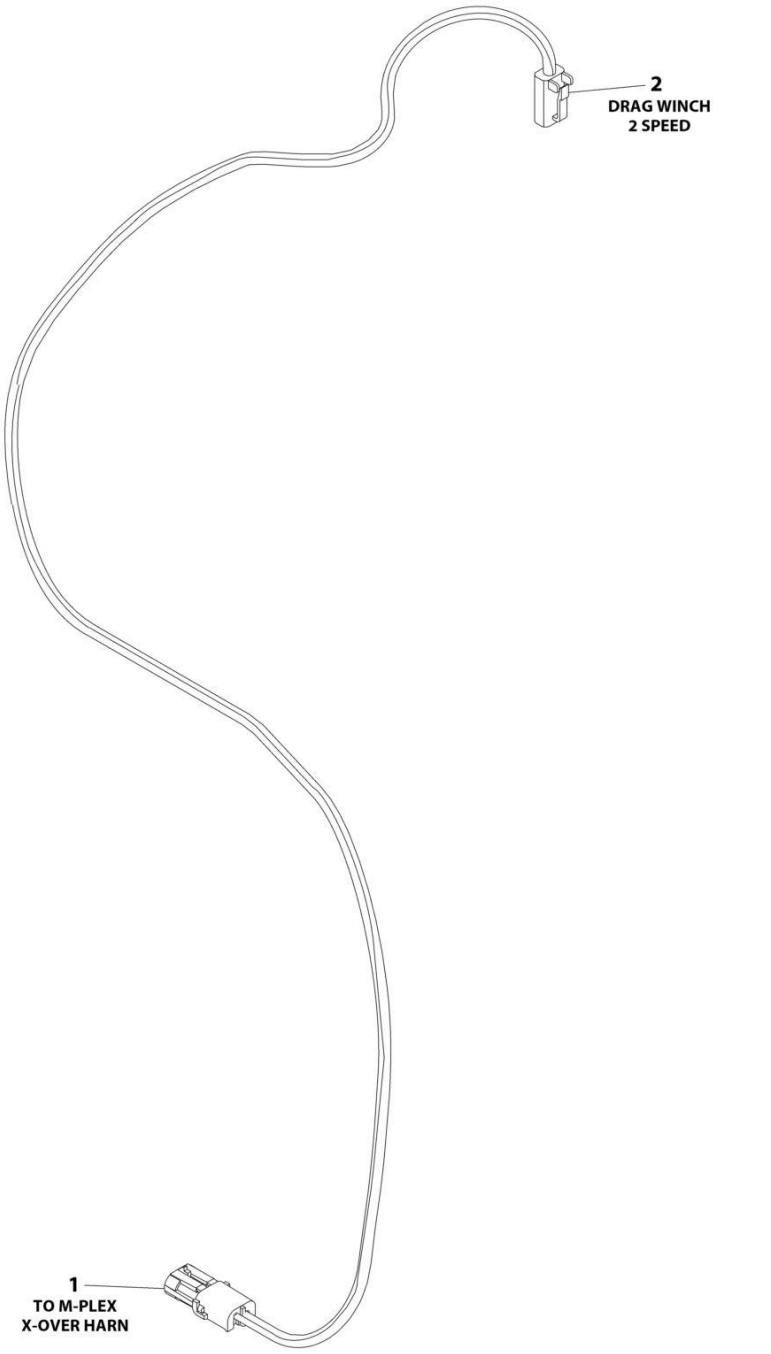


FIGURE 7-20. DRAG WINCH ELECTICAL 2 SPEED HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209035	Ref	DRAG WINCH ELECTICAL 2 SPEED HARNESS	B
1	4461157	1	Connector	
1	4460475	2	Pin	
1	4460458	2	Seal	
2	4460891	1	Connector	
2	4460465	2	Socket	

FIGURE 7-21. EMERGENCY STOP INSTALLATION

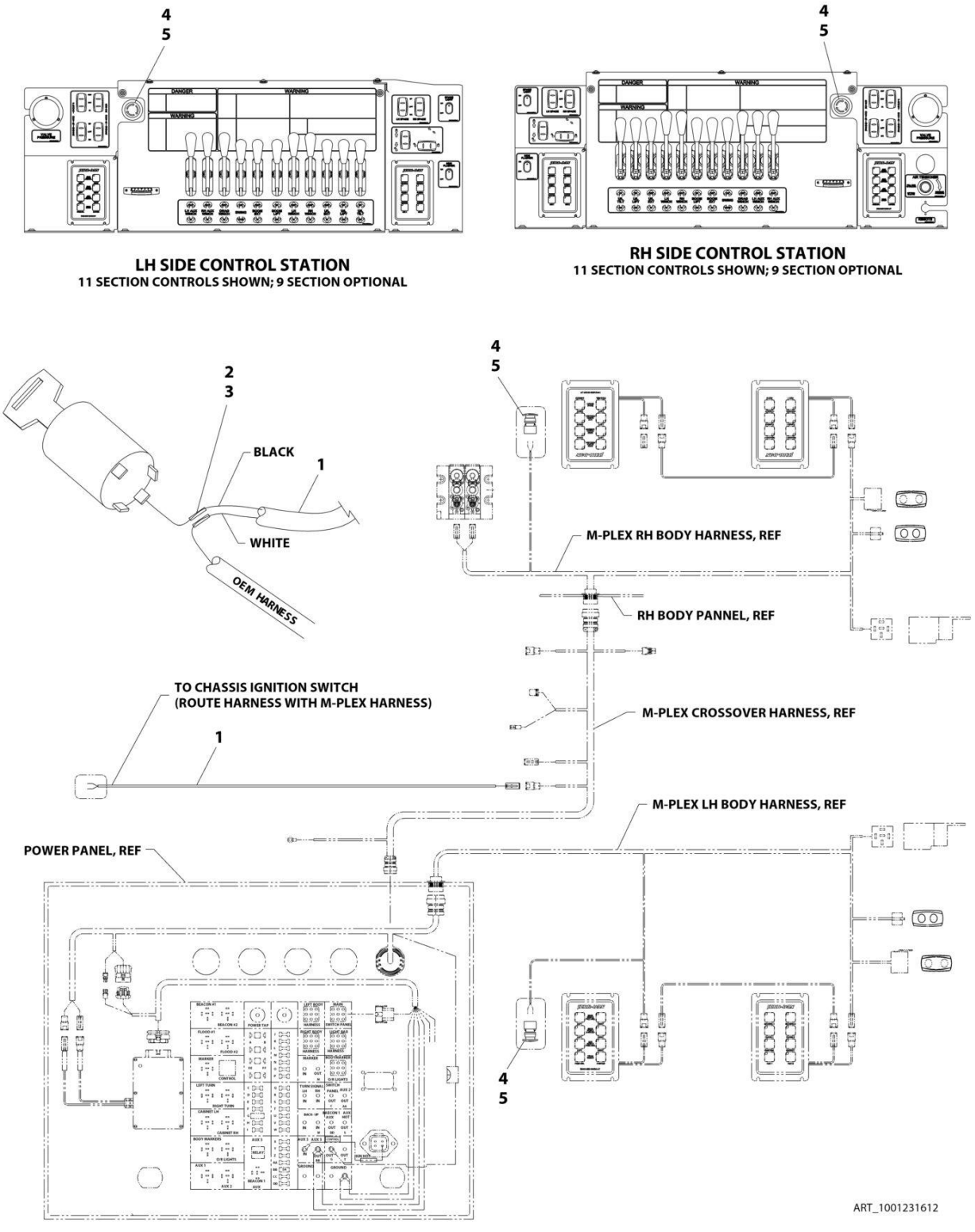
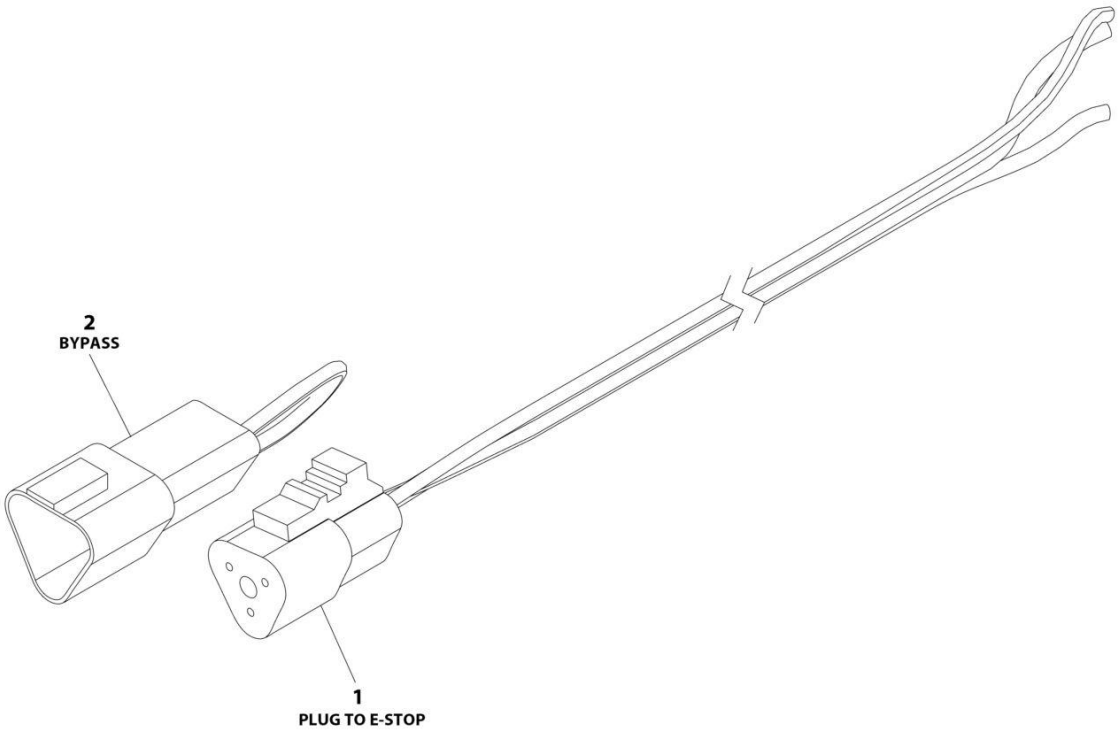


FIGURE 7-21. EMERGENCY STOP INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231612	Ref	Emergency Stop Installation	B
1	1001215371	1	Harness (See Separate Breakdown in this Section)	
2	7345001714	2	Terminal	
3	7346000039	0.5 ft	Tubing	
4	1001233500	2	Switch, Push Button	
5	1704260	2	Decal	

FIGURE 7-22. EMERGENCY STOP HARNESS



ART_1001215371

FIGURE 7-22. EMERGENCY STOP HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215371	Ref	EMERGENCY STOP HARNESS	A
1	1001116812	1	Plug, Male - 3 Position	
1	4460465	2	Socket, Female	
1	4460942	1	Socket, Female	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	2	Pin, Male	
2	4460466	1	Plug, Terminal	

FIGURE 7-23. FREESPOOL HARNESS, 2 - SPD

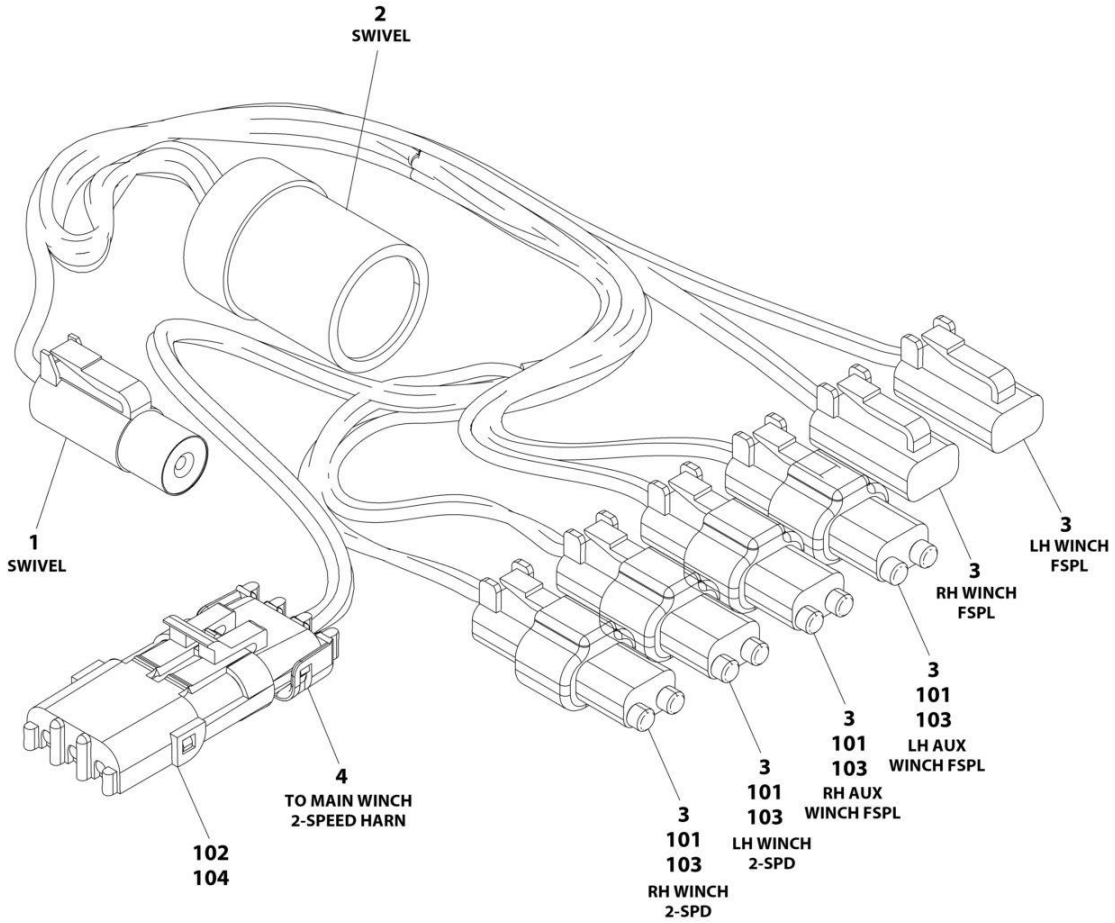


FIGURE 7-23. FREESPOOL HARNESS, 2 - SPD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231250	Ref	FREESPOOL HARNESS, 2 - SPD	B
1	4461261	1	Connector 1 Position	
1	4460509	1	Terminal	
2	1001263565	1	Connector 6 Position	
2	4460464	6	Terminal	
3	4460891	6	Connector 2 Position	
3	4460465	12	Terminal	
4	4460459	1	Connector 3 Position	
4	4460457	3	Terminal	
101	4460466	8	Plug, Terminal	
102	4460476	1	Connector 3 Position	
103	4460897	4	Connector 2 Position	
104	1001116727	3	Plug, Terminal	

FIGURE 7-24. HARNESS INSTALLATION - TUNNEL (TALL)

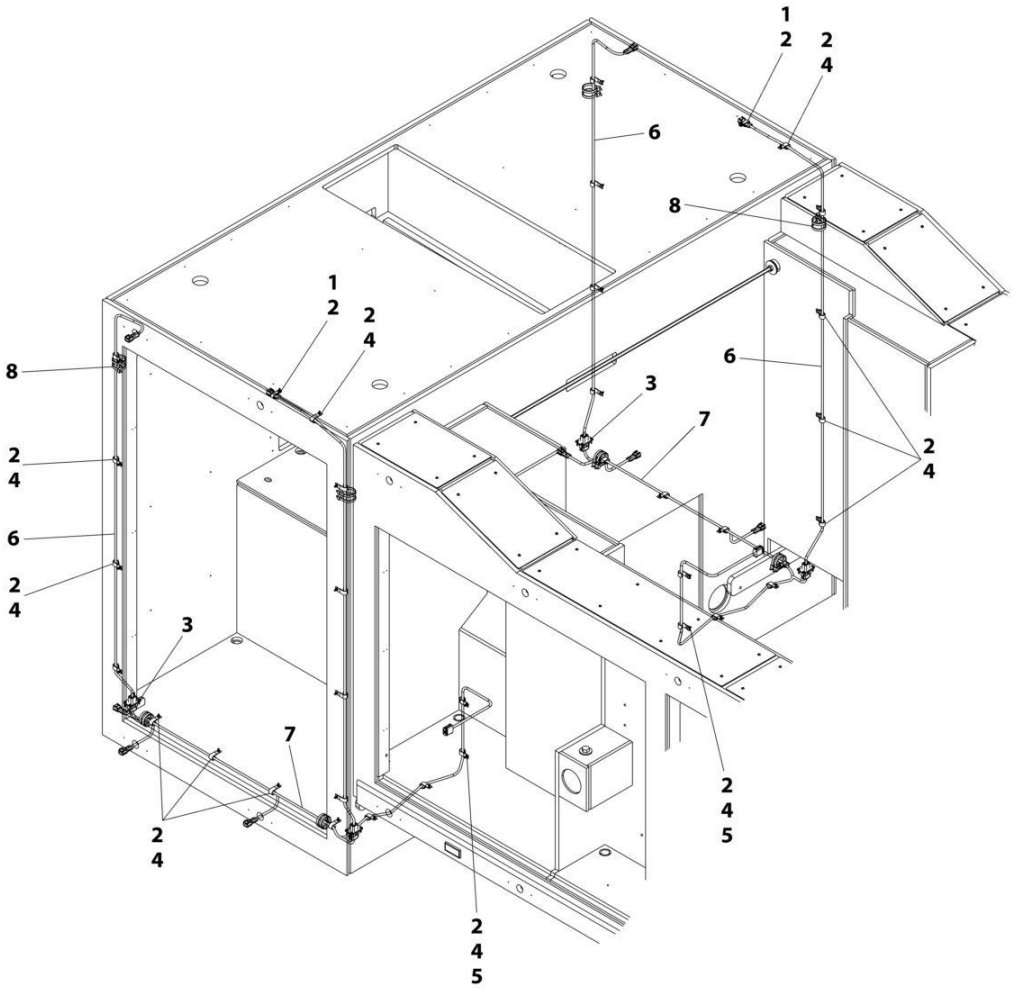


FIGURE 7-24. HARNESS INSTALLATION - TUNNEL (TALL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306277	Ref	HARNESS INSTALLATION - TUNNEL	A
1	1321385	2	Clamp	
2	1001195257	36	Screw 1/4 x 1/2	
3	1001196552	16	Screw #8 x 3/4	
4	7280000006	34	Clip	
5	7950140141	4	Washer 1/4	
6	1001229447	4	Harness, Tunnel Rear (See Separate Breakdown in this Section)	
7	1001229452	2	Harness, Tunnel Main (See Separate Breakdown in this Section)	
8	5526000553	16	Tie-Strap	

FIGURE 7-25. HARNESS INSTALLATION - TUNNEL (SHORT)

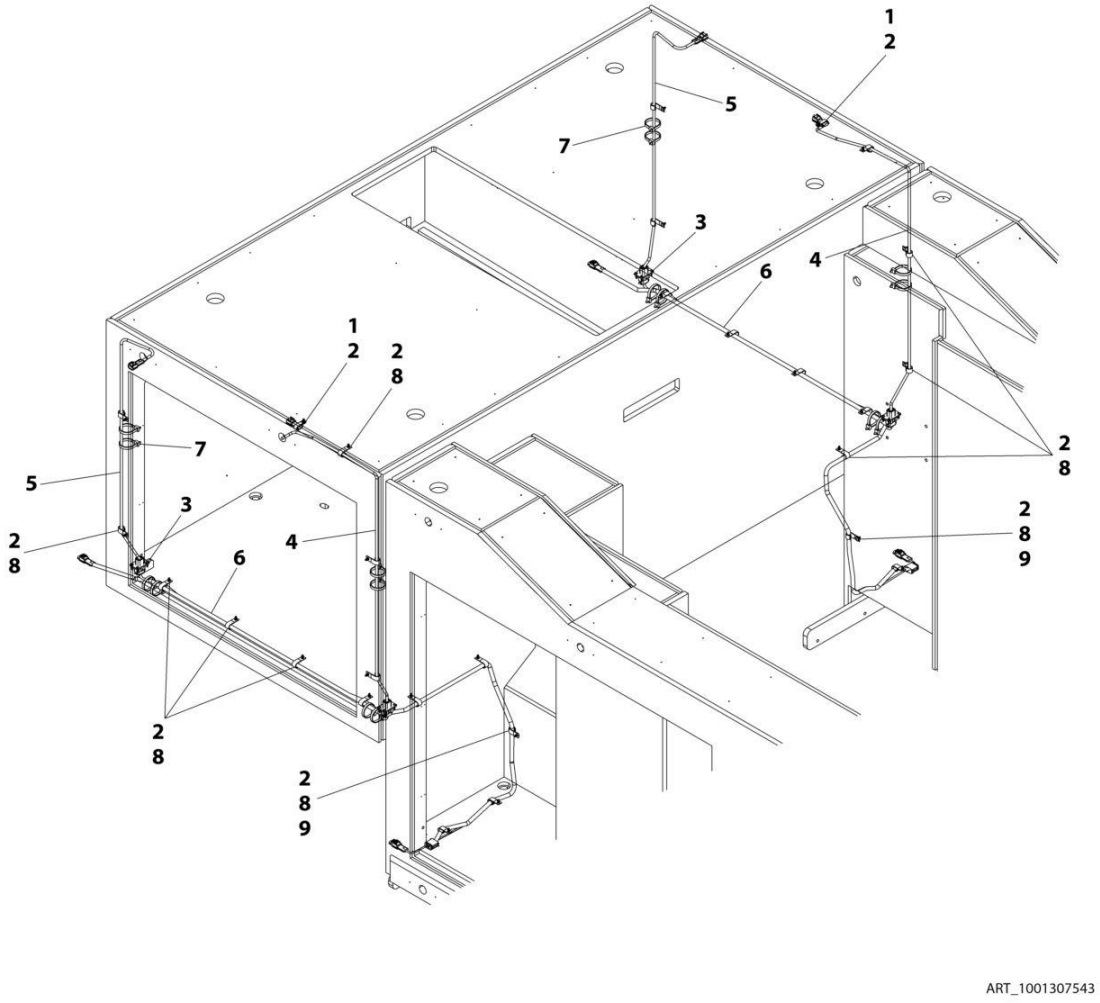


FIGURE 7-25. HARNESS INSTALLATION - TUNNEL (SHORT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307543	Ref	HARNESS INSTALLATION - TUNNEL	A
1	1321385	2	Clamp	
2	1001195257	28	Screw 1/4 x 1/2	
3	1001196552	16	Screw #8 x 3/4	
4	1001229477	2	Harness, Tunnel Rear (See Separate Breakdown in this Section)	
5	1001230142	2	Harness, Tunnel Front (See Separate Breakdown in this Section)	
6	1001294087	2	Harness, Tunnel Main (See Separate Breakdown in this Section)	
7	5526000553	16	Tie-Strap	
8	7280000006	26	Clip	
9	7950140141	2	Washer 1/4	

FIGURE 7-26. HARNESS INSTALLATION - TUNNEL 56IN

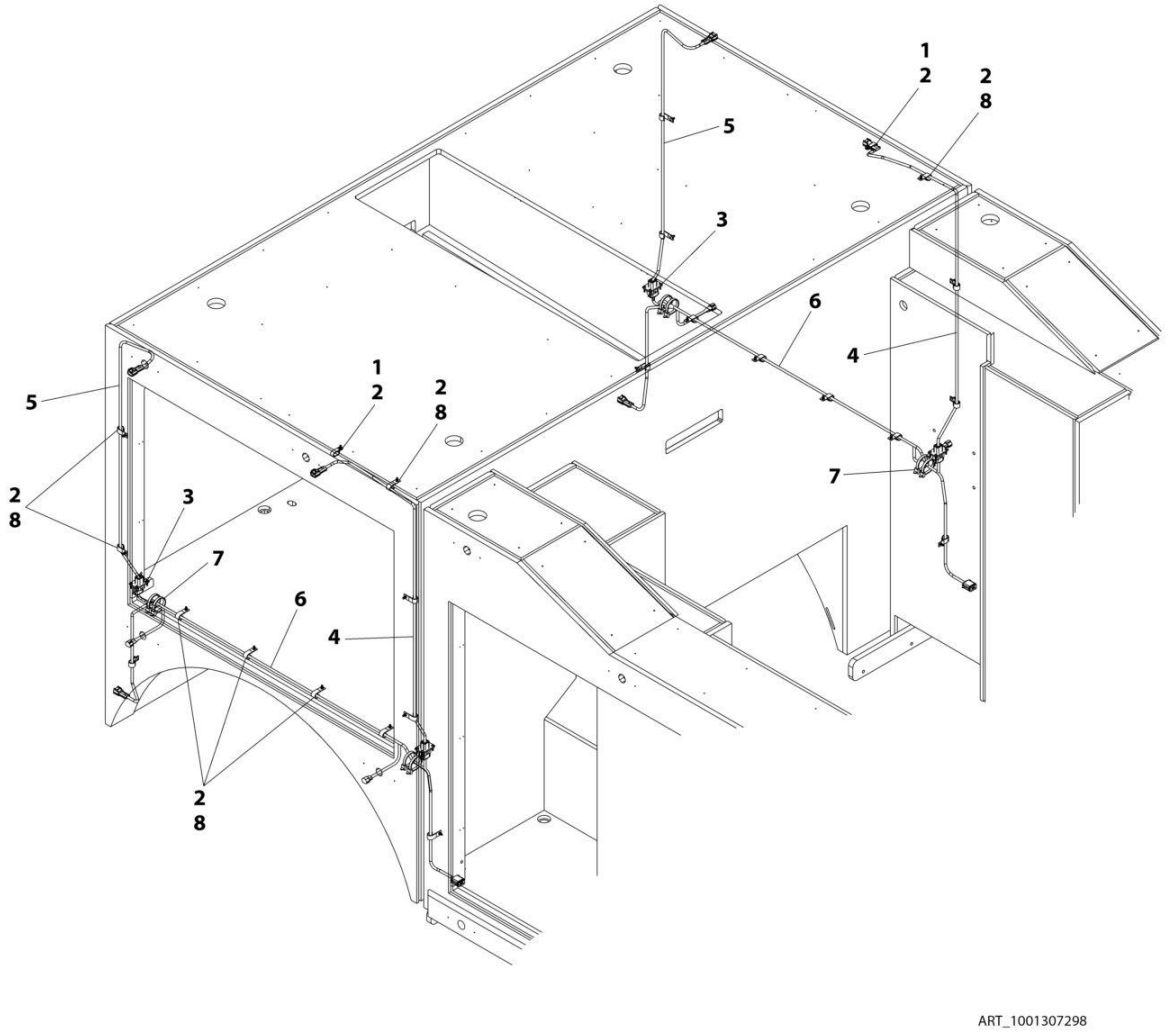


FIGURE 7-26. HARNESS INSTALLATION - TUNNEL 56IN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307298	Ref	HARNESS INSTALLATION - TUNNEL	A
1	1321385	2	Clamp	
2	1001195257	24	Screw 1/4 x 1/2	
3	1001196552	16	Screw #8 x 3/4	
4	1001229477	2	Harness, Tunnel Rear (See Separate Breakdown in this Section)	
5	1001230142	2	Harness, Tunnel Front (See Separate Breakdown in this Section)	
6	1001233987	2	Harness, Tunnel Main (See Separate Breakdown in this Section)	
7	5526000553	8	Tie-Strap	
8	7280000006	22	Clip	

FIGURE 7-27. HDR REMOTE CONTROL HARNESS

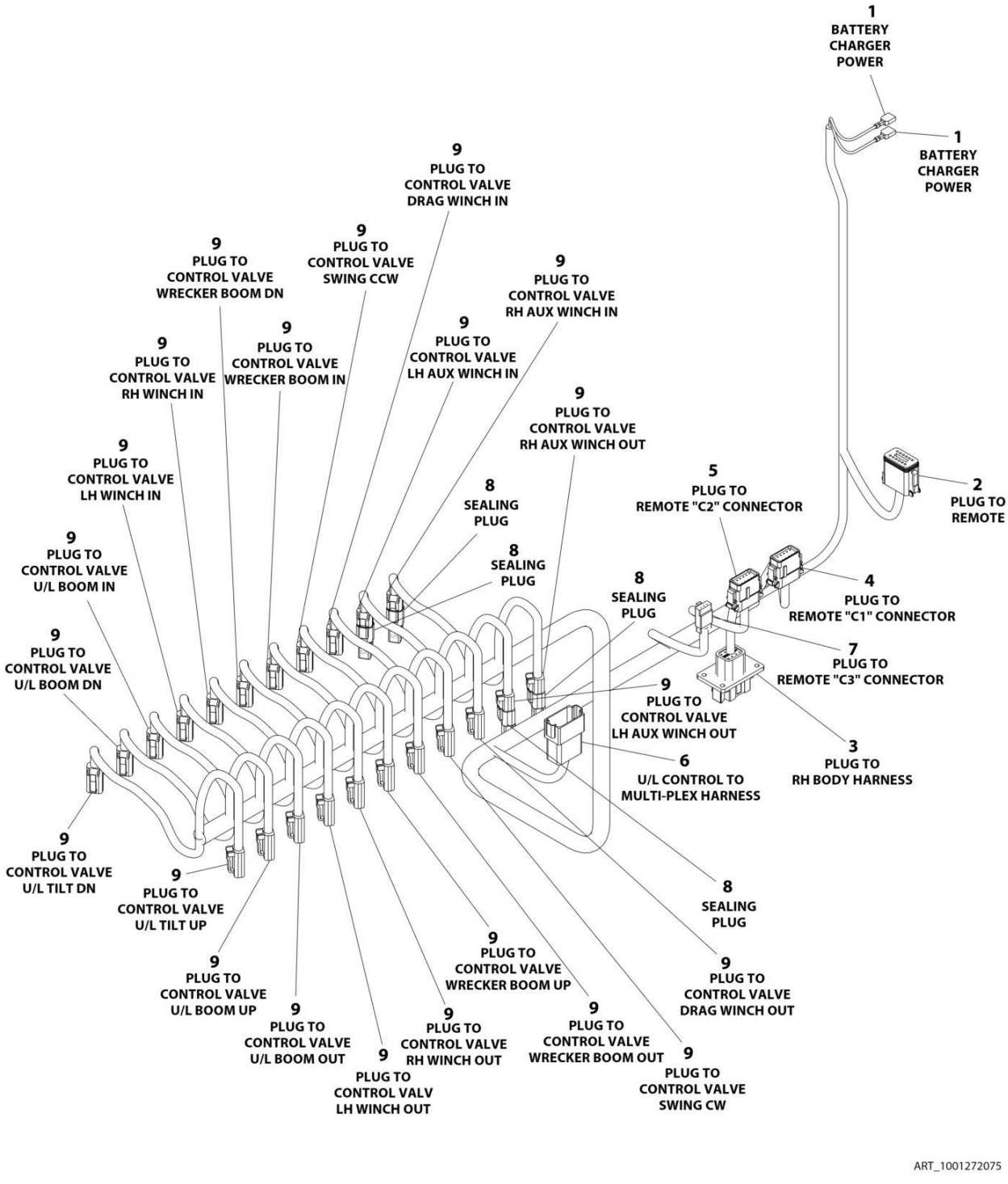


FIGURE 7-27. HDR REMOTE CONTROL HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001272075	Ref	REMOTE CONTROL HARNESS	A
1		Ref	Connector 1 Position	
2	4460933	1	Connector 12 Position	
2	4460465	11	Terminal	
2	4460466	1	Plug, Terminal	
3	1001269275	1	Connector 8 Position	
3	4490941	3	Terminal	
3	4460466	5	Plug, Terminal	
4	1001116774	1	Connector 12 Position	
4	1001126008	10	Terminal	
4	4460518	2	Plug, Terminal	
5	1001116808	1	Connector 12 Position	
5	1001126008	9	Terminal	
5	4460518	3	Plug, Terminal	
6	4460970	1	Connector 12 Position	
6	4460464	10	Terminal	
6	4460466	2	Plug, Terminal	
7	4460911	1	Connector 3 Position	
7	1001126008	3	Terminal	
8	4460897	4	Connector 2 Position	
8	4460466	8	Plug, Terminal	
9	4460891	8	Connector 2 Position	
9	4460465	10	Terminal	
9	4460942	6	Terminal	

FIGURE 7-28. HOUSE LOCK HARNESS

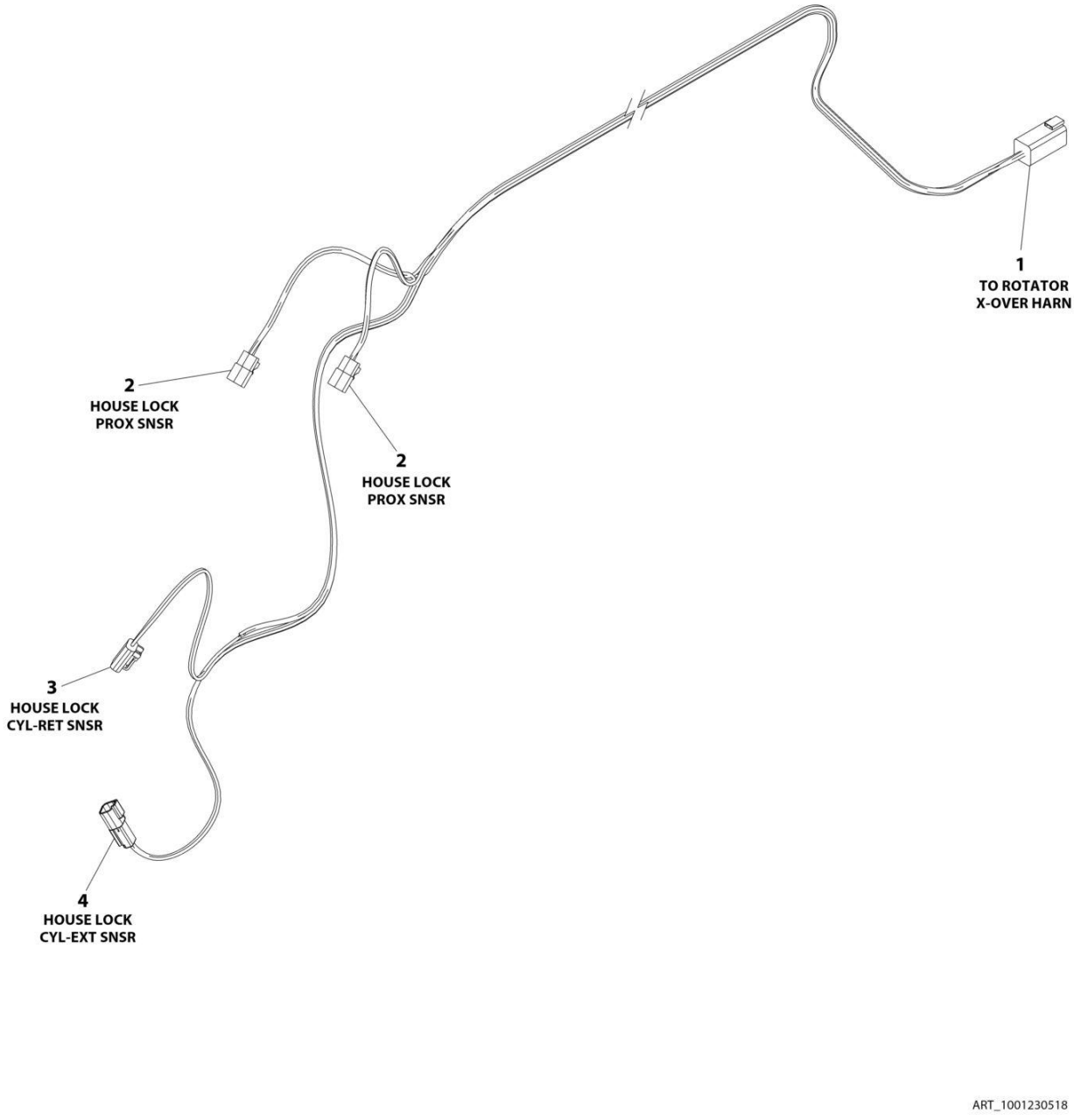
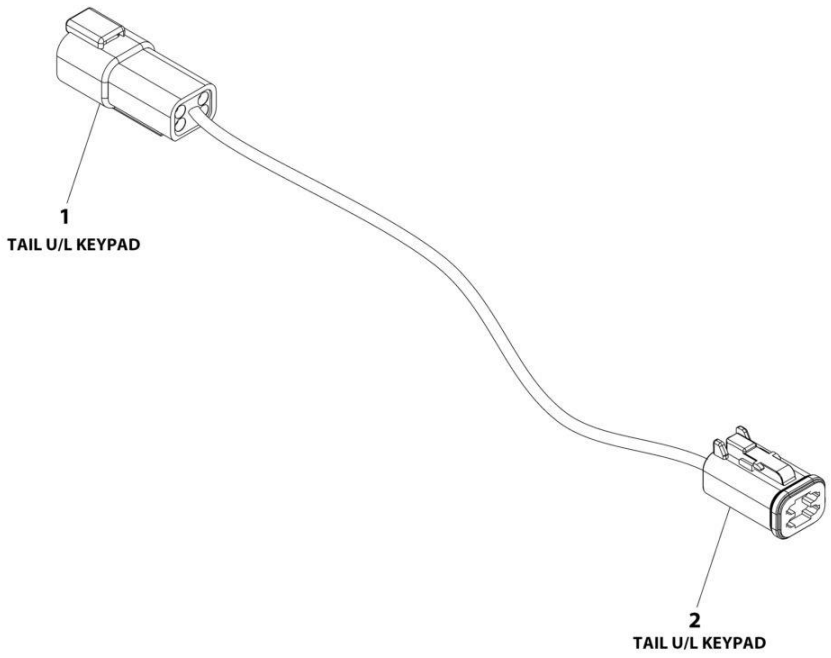


FIGURE 7-28. HOUSE LOCK HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001230518	Ref	HOUSE LOCK HARNESS	C
1	4460899	1	Connector 6 Position	
1	4460464	5	Terminal	
1	4460466	1	Plug, Terminal	
2	4460539	2	Connector 3 Position	
2	4460465	6	Terminal	
3	4460891	1	Connector 2 Position	
3	4460465	2	Terminal	
4	4460897	1	Connector 2 Position	
4	4460464	2	Terminal	

FIGURE 7-29. KEYPAD (REAR UNDERLIFT) HARNESS



ART_1001209037

FIGURE 7-29. KEYPAD (REAR UNDERLIFT) HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209037	Ref	KEYPAD (REAR UNDERLIFT) HARNESS	C
1	4460932	1	Connector 4 Position	
1	4460464	4	Terminal	
2	4460884	1	Connector 4 Position	
2	4460465	4	Terminal	

FIGURE 7-30. LIGHTS - BEACON LIGHT INSTALLATION

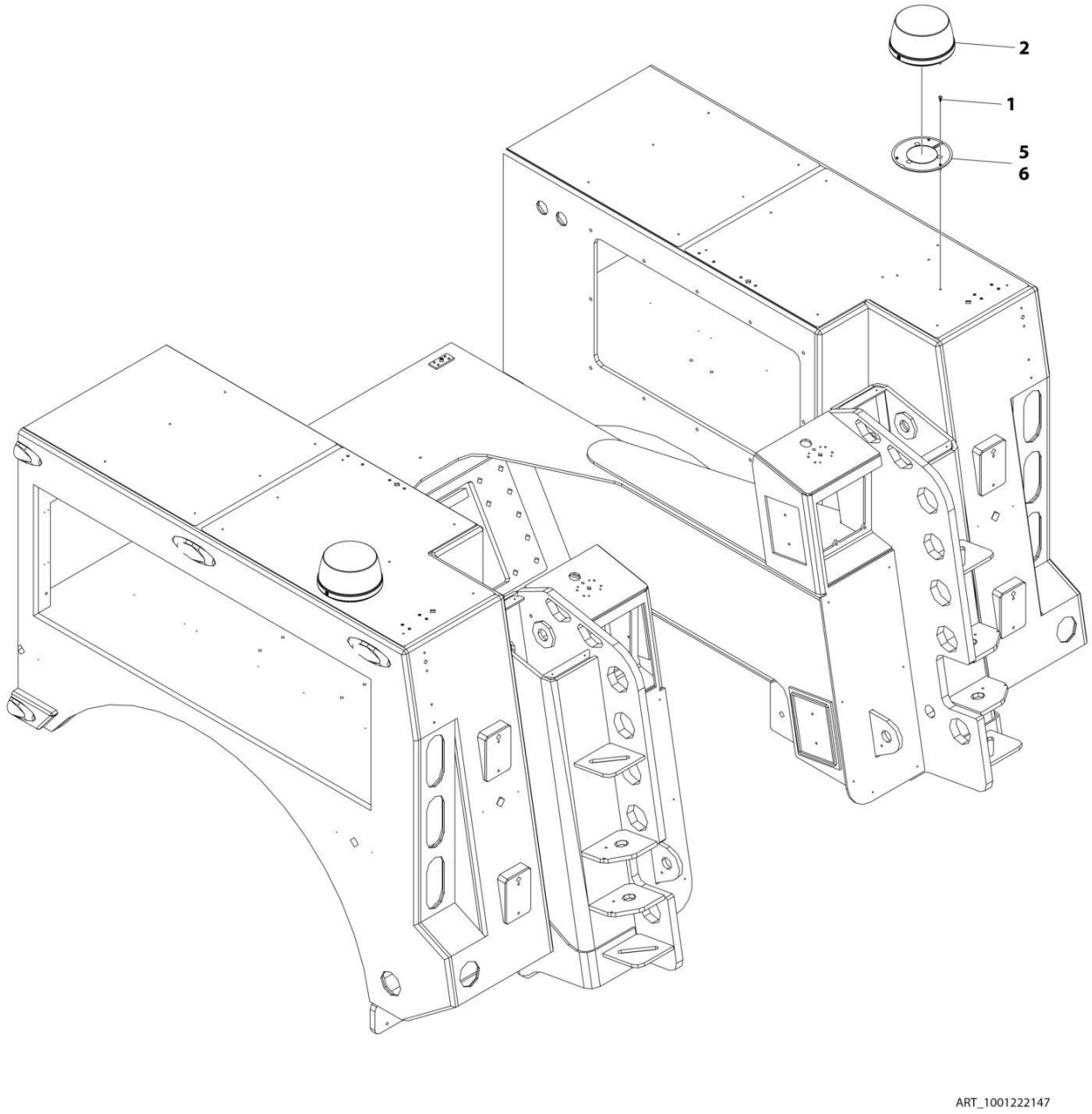


FIGURE 7-30. LIGHTS - BEACON LIGHT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222147	Ref	Beacon Light Installation	A
1	1001192958	6	Screw, #10 x 1/2	
2	1001222455	2	Lamp	
3	7894000004	20	Tie Strap (Not Shown)	
4	8597650002	1	Wire Loom (Not Shown)	
5	8798820001	AR	Sealant	
6	8977010103	150	Template	

FIGURE 7-31. LIGHTS - BODY MARKER INSTALLATION (WITH AXLE)

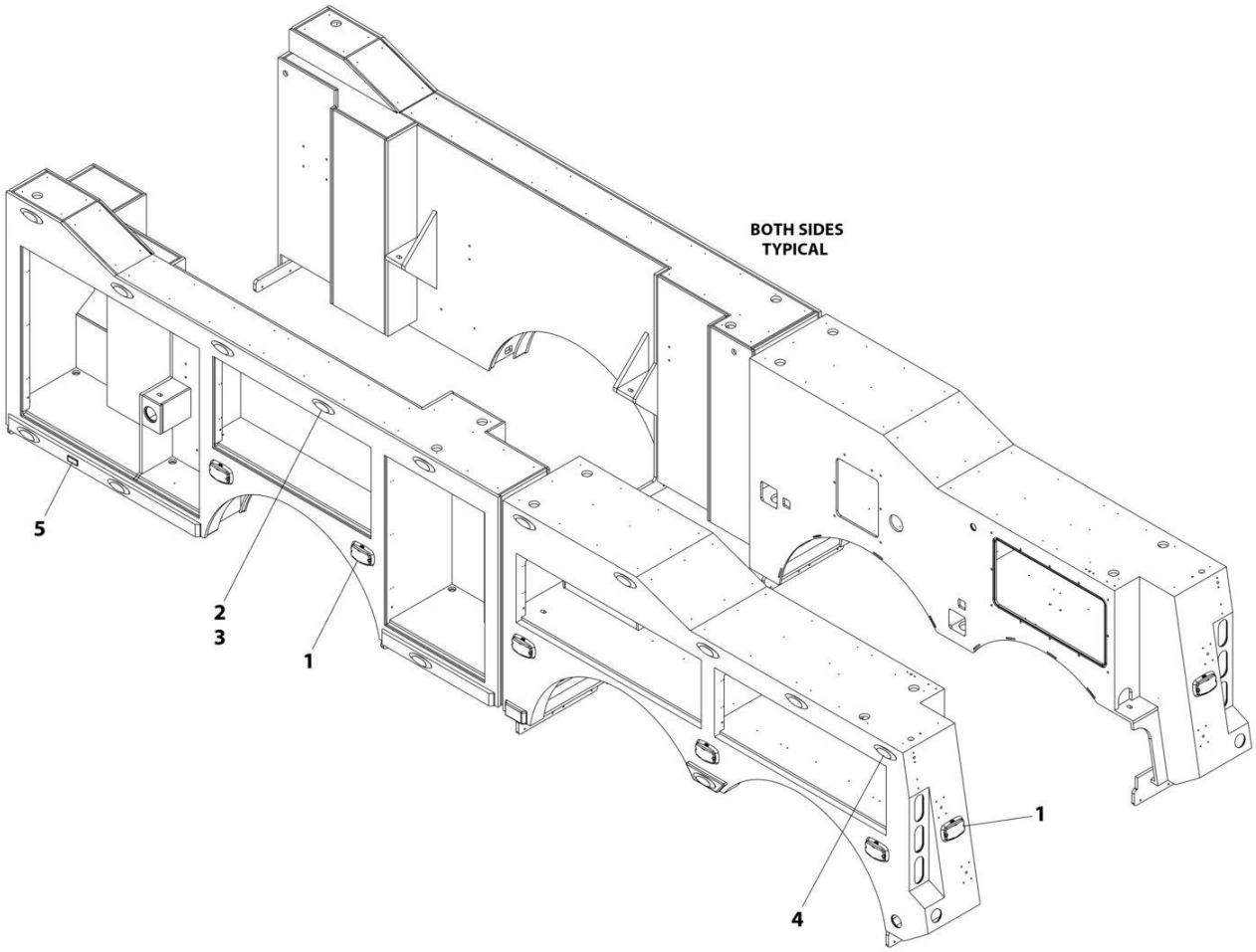


FIGURE 7-31. LIGHTS - BODY MARKER INSTALLATION (WITH AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305979	Ref	LIGHTS INSTALLATION - BODY MARKERS	A
1	1001143284	12	Lamp	
2	1001192958	56	Screw #10 x 1/2	
3	7590000358	26	Light, Marker (Amber)	
4	7590000359	2	Light, Marker (Red)	
5	7736000001	2	Reflector, Amber	

FIGURE 7-32. LIGHTS - BODY MARKER INSTALLATION (WITHOUT AXLE)

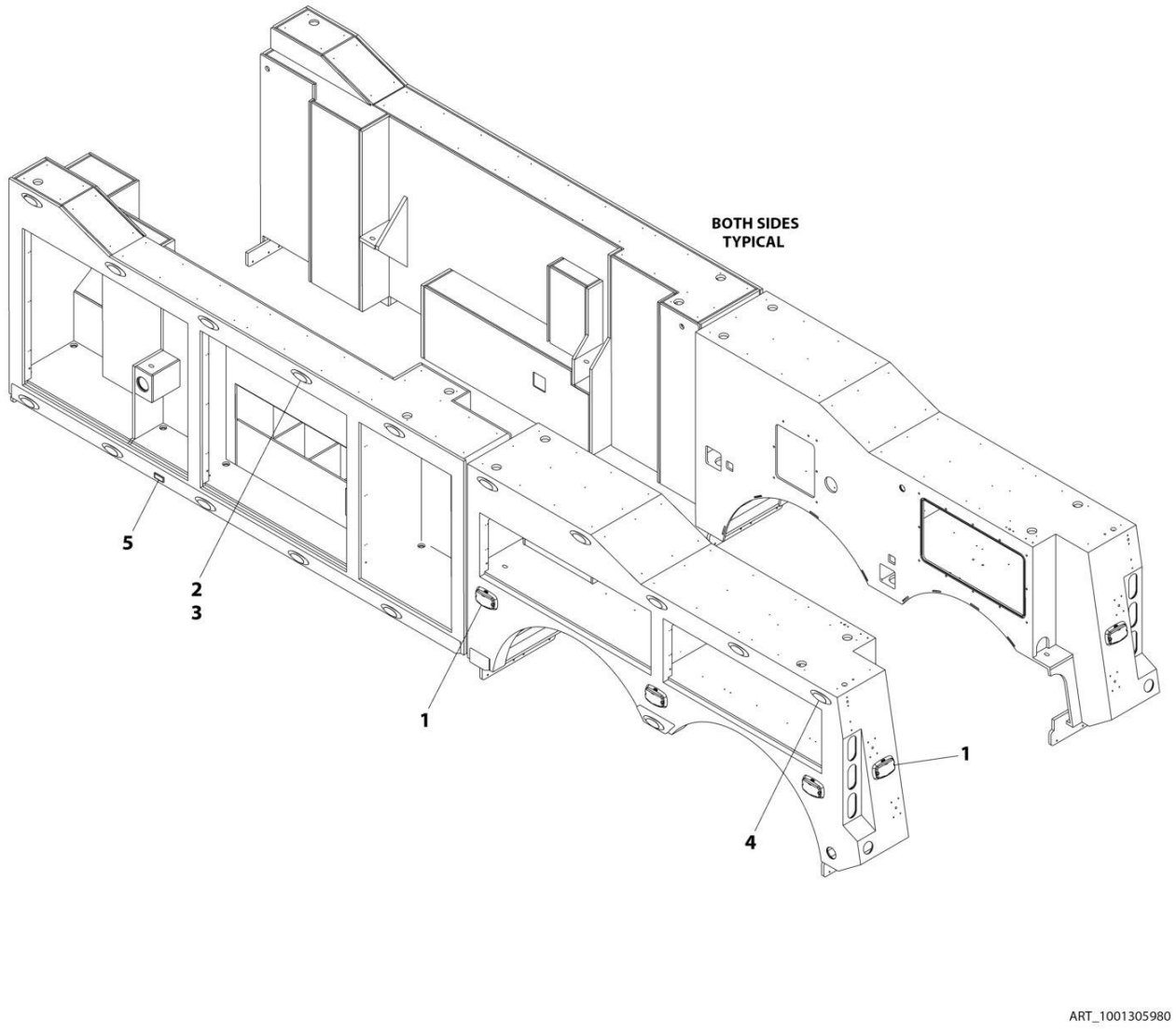


FIGURE 7-32. LIGHTS - BODY MARKER INSTALLATION (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001305980	Ref	LIGHTS INSTALLATION - BODY MARKERS	A
1	1001143284	8	Lamp	
2	1001192958	64	Screw #10 x 1/2	
3	7590000358	30	Light, Marker (Amber)	
4	7590000359	2	Light, Marker (Red)	
5	7736000001	2	Reflector, Amber	

FIGURE 7-33. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (WITH AXLE)

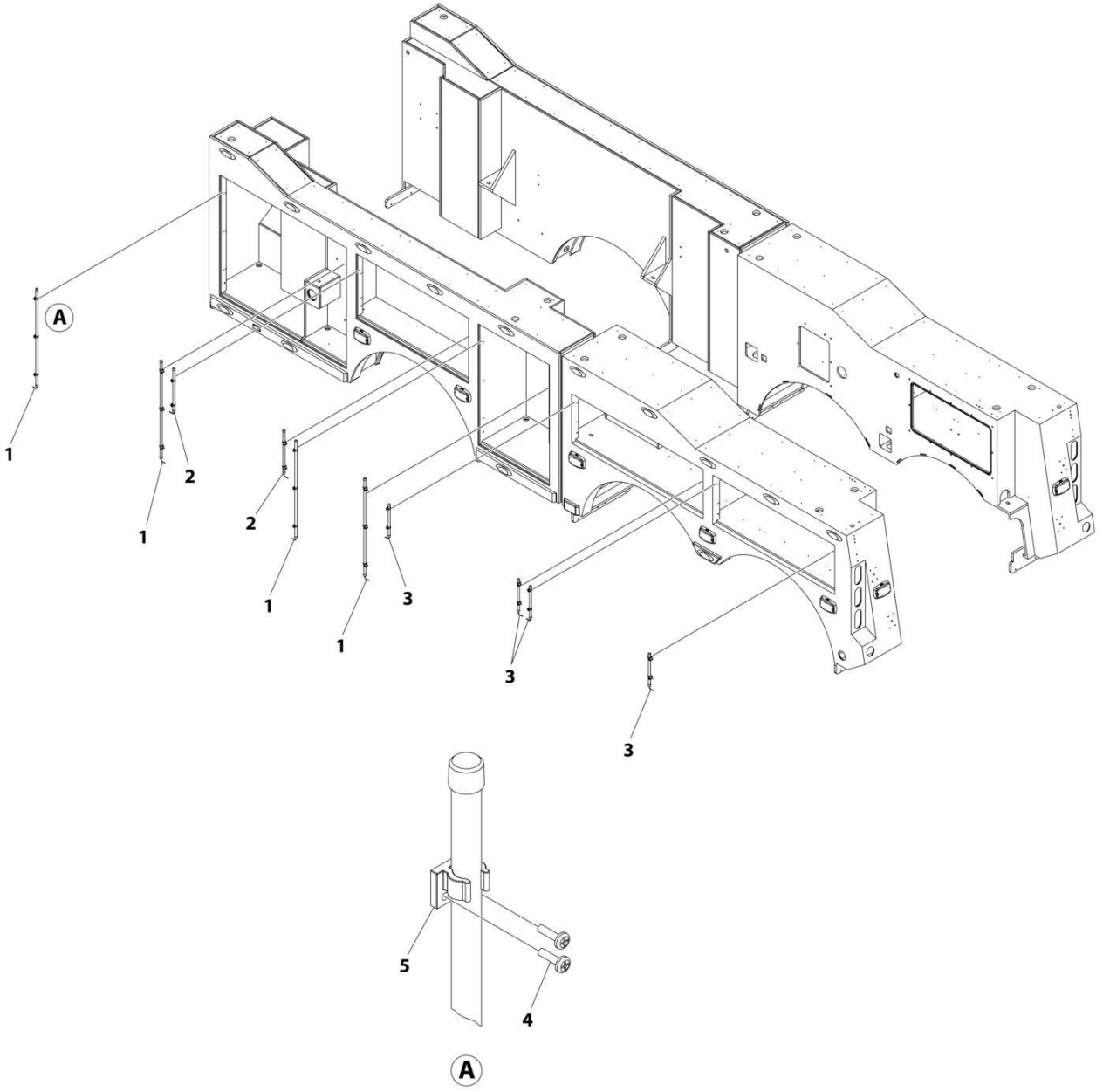


FIGURE 7-33. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (WITH AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306153	Ref	LIGHT INSTALLATION - COMPARTMENT LIGHTS	A
1	1001166547	8	Light, LED White (36IN)	
2	1001166548	4	Light, LED White (16IN)	
3	1001166549	8	Light, LED White (12IN)	
4	1001196552	96	Screw #8 x 3/4	
5	1001199081	48	Mount	

FIGURE 7-34. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (WITHOUT AXLE)

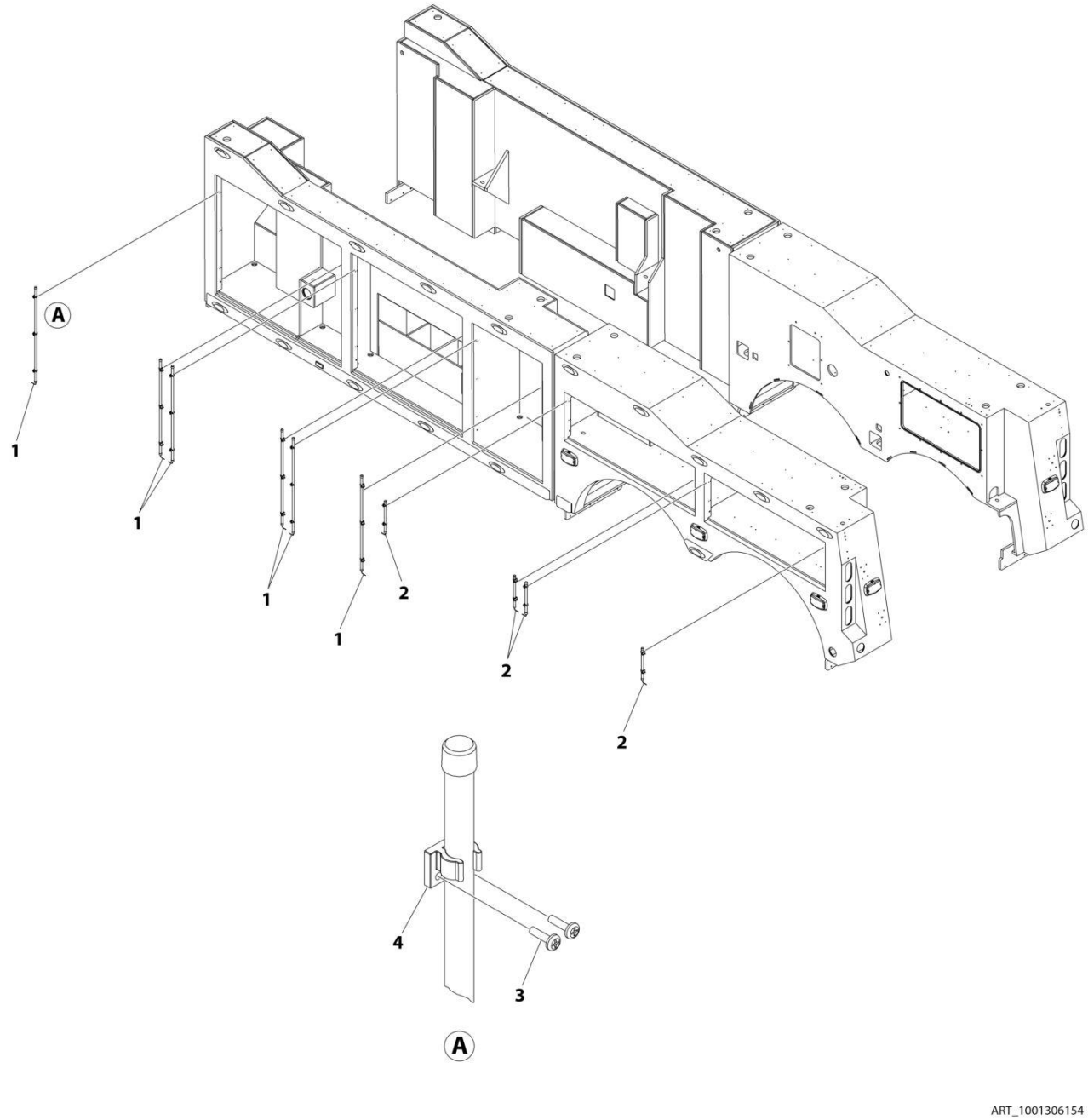


FIGURE 7-34. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306154	Ref	LIGHT INSTALLATION - COMPARTMENT LIGHTS	A
1	1001166547	12	Light, LED White (36IN)	
2	1001166549	8	Light, LED White (12IN)	
3	1001196552	104	Screw #8 x 3/4	
4	1001199081	52	Mount	

FIGURE 7-35. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (TALL TUNNEL)

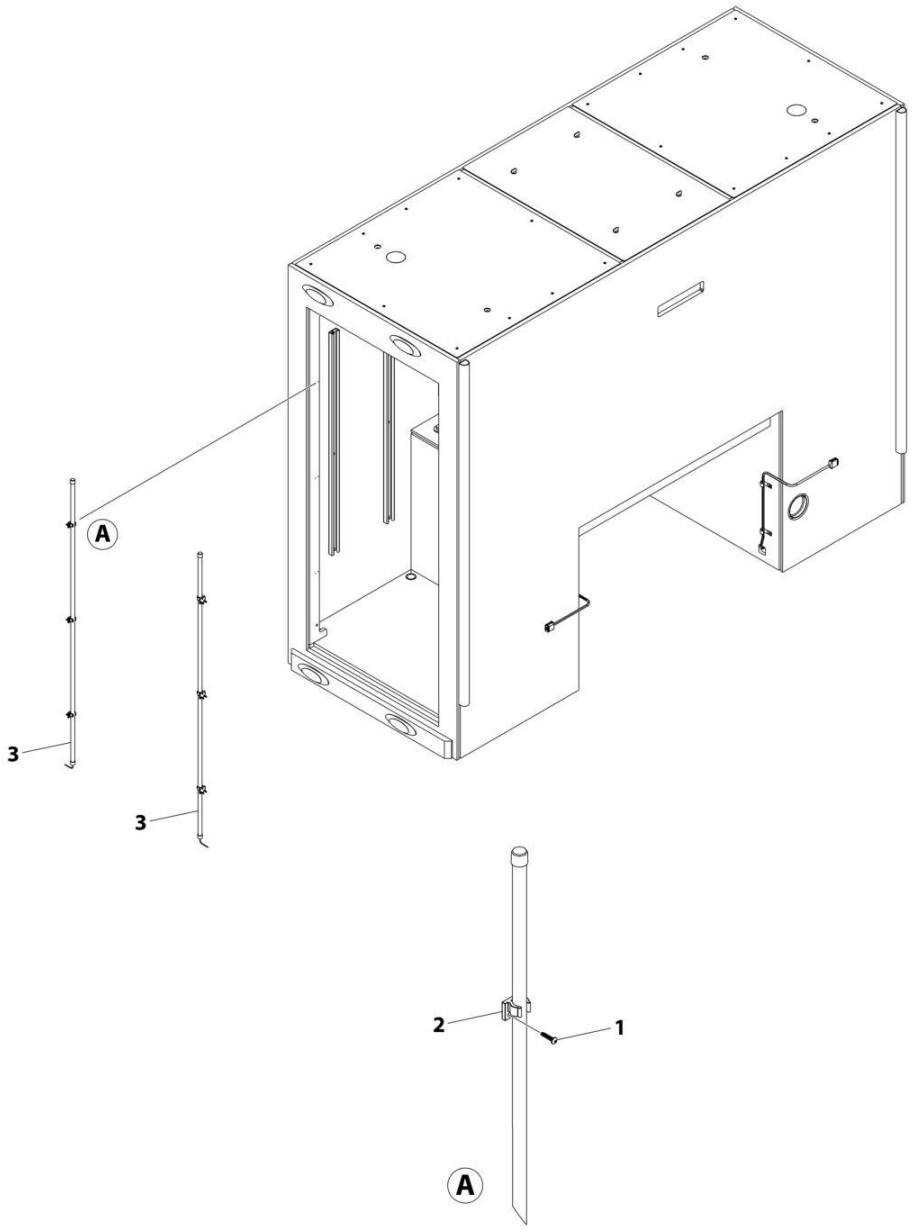


FIGURE 7-35. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (TALL TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001306159	Ref	LIGHTS INSTALLATION - COMPARTMENT	A
1	1001196552	24	Screw #8 x 3/4	
2	1001199081	12	Mount	
3	1001306160	4	Light, LED White	

FIGURE 7-36. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (SHORT TUNNEL)

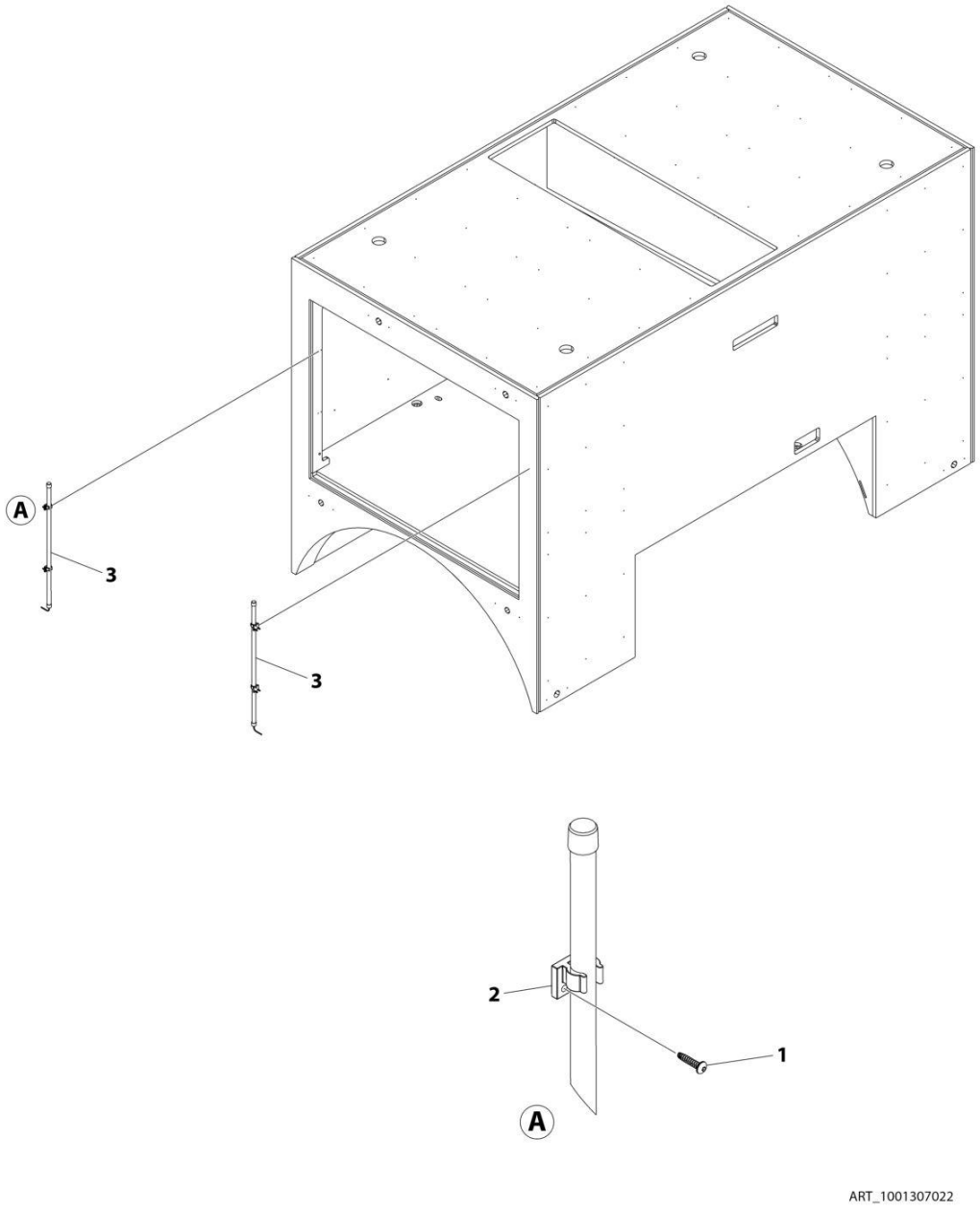


FIGURE 7-36. LIGHTS - COMPARTMENT LIGHTS INSTALLATION (SHORT TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307022	Ref	LIGHTS INSTALLATION - COMPARTMENT	A
1	1001196552	16	Screw #8 x 3/4	
2	1001199081	8	Mount	
3	1001307333	4	Light, LED White	

FIGURE 7-37. LIGHTS - GRILLE FLASHER LIGHTS INSTALLATION - FRONT

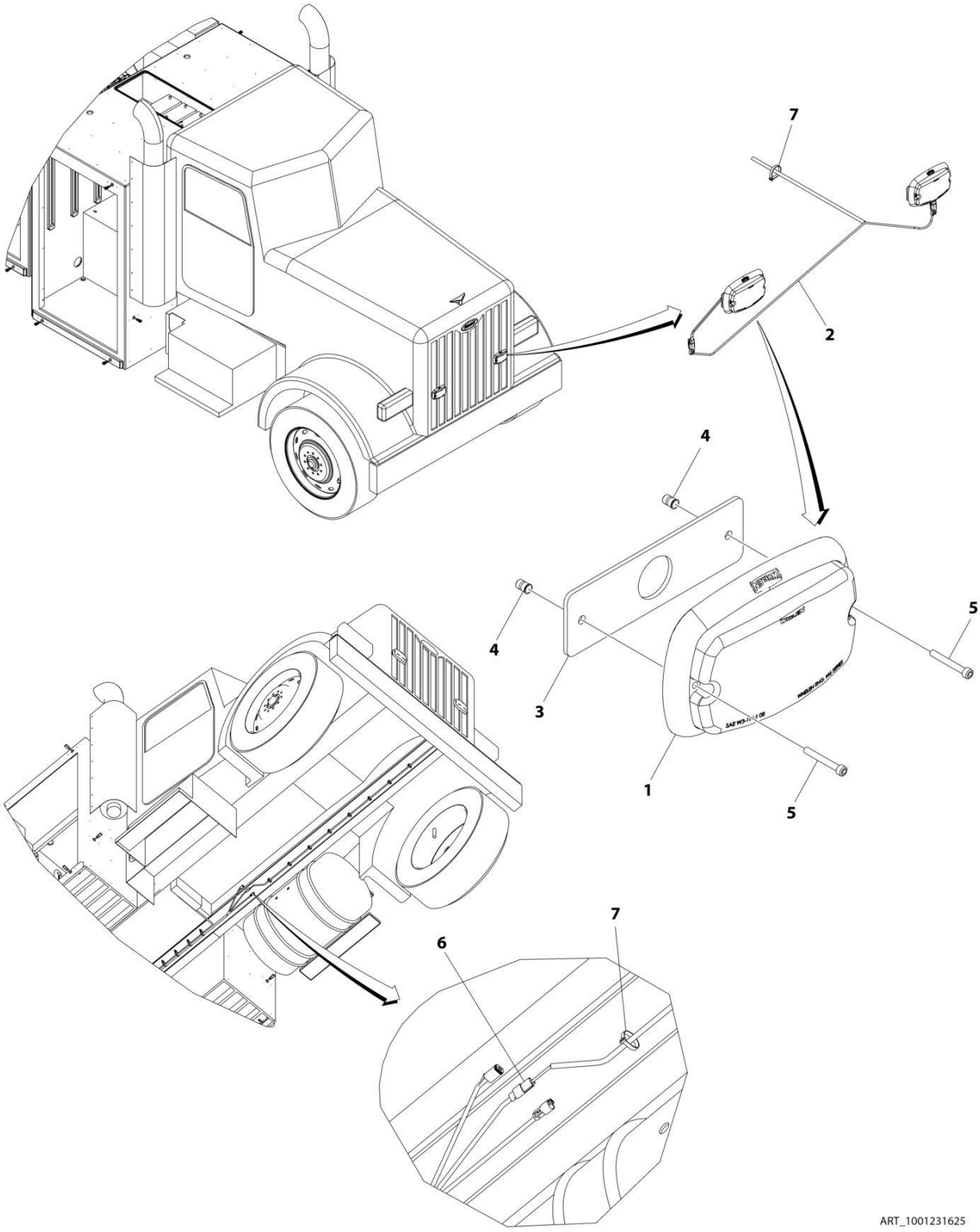


FIGURE 7-37. LIGHTS - GRILLE FLASHER LIGHTS INSTALLATION - FRONT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231625	Ref	Front Grille Flasher Light Installation	A
1	1001143284	1	Lamp	
2	1001115157	1	Harness	
3	1001116586	2	Bar	
4	1001151546	4	Nut #8	
5	3930820	4	Screw #8 x 1-1/4	
6	4460536	1	Terminal	
7	7894000004	8	Tie Strap	

FIGURE 7-38. LIGHTS - GRILLE MOUNT INSTALLATION - ROTO-RAY

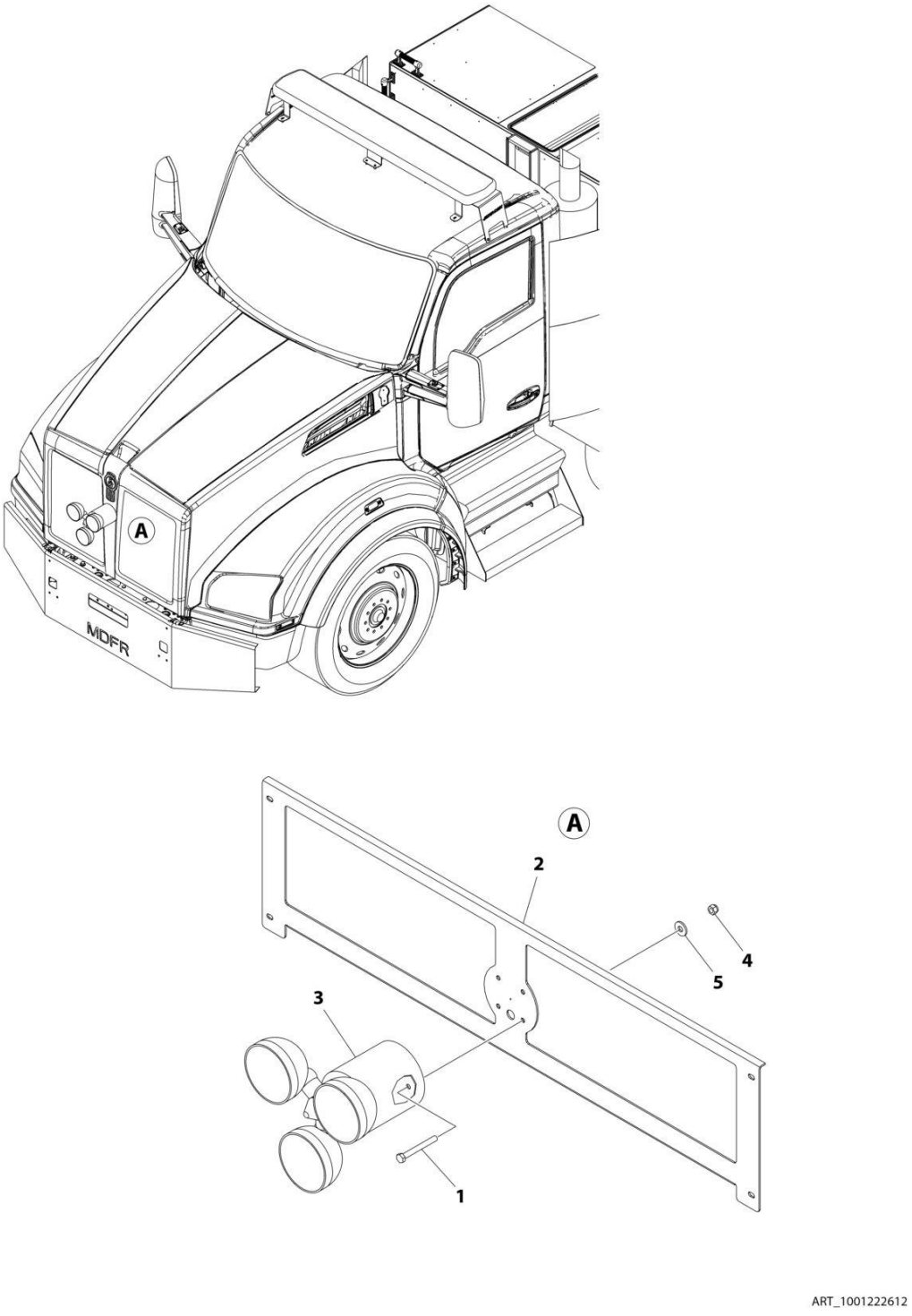


FIGURE 7-38. LIGHTS - GRILLE MOUNT INSTALLATION - ROTO-RAY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222612	Ref	Roto-Ray Grille Mount Installation	A
1	1001167455	4	Screw 5/16 x 2-3/4	
2	1001222601	1	Bracket	
3	1001222628	1	Light	
4	7660152601	4	Nut 5/16	
5	7950150153	4	Washer 5/16	

FIGURE 7-39. LIGTHS - HOOD FLASHER LIGHTS INSTALLATION

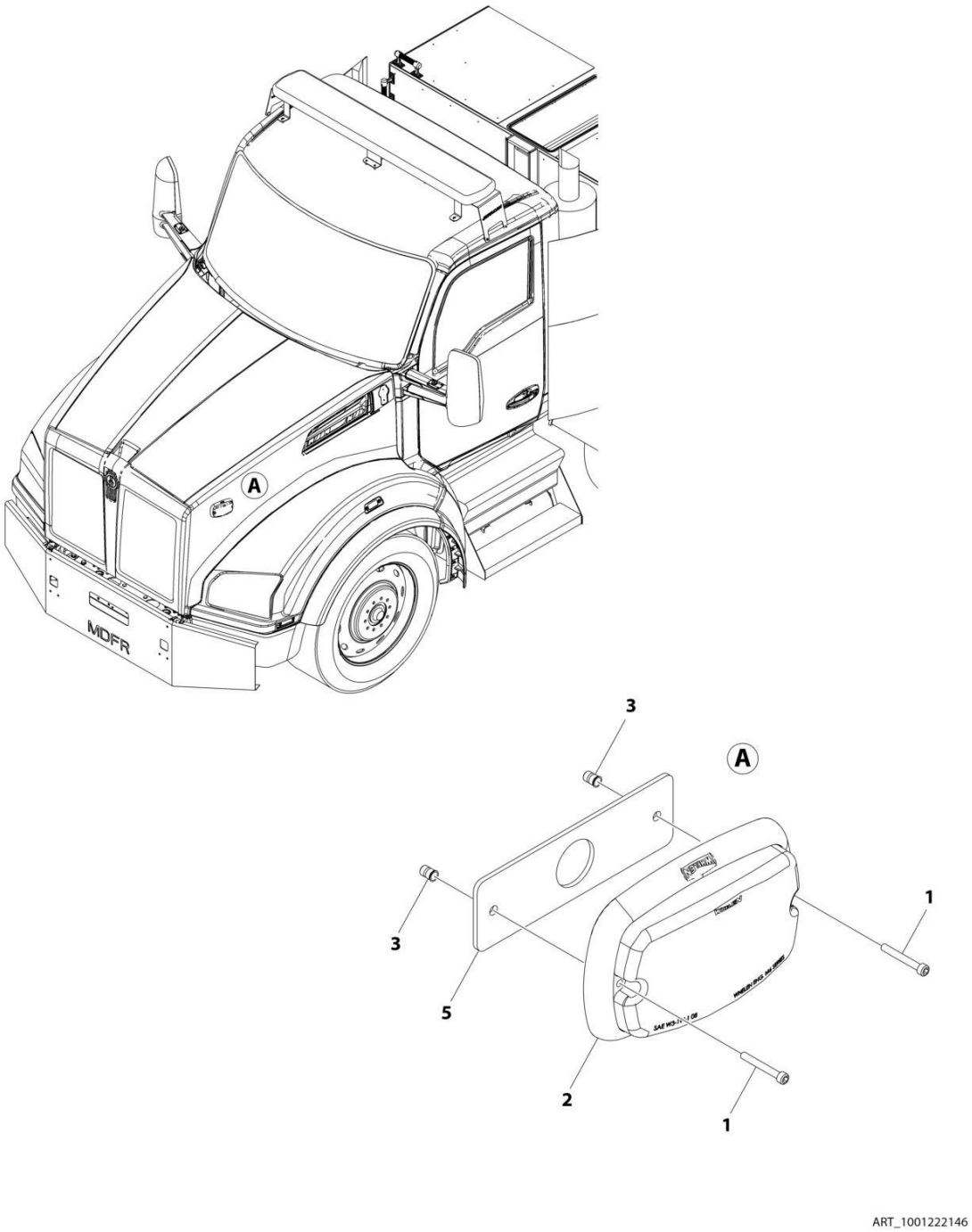


FIGURE 7-39. LIGTHS - HOOD FLASHER LIGHTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001222146	Ref	Hood Flasher Light Installation	A
1	3930820	4	Screw #8 x 1-1/4	
2	1001143284	2	Lamp	
3	1001151546	4	Nut #8	
4	1001215157	1	Harness (Not Shown)	
5	1001216586	2	Bar	
6	7894000004	20	Tie Strap (Not Shown)	

FIGURE 7-40. LIGHTS - HOOK UP LIGHTS INSTALLATION (LOWER)

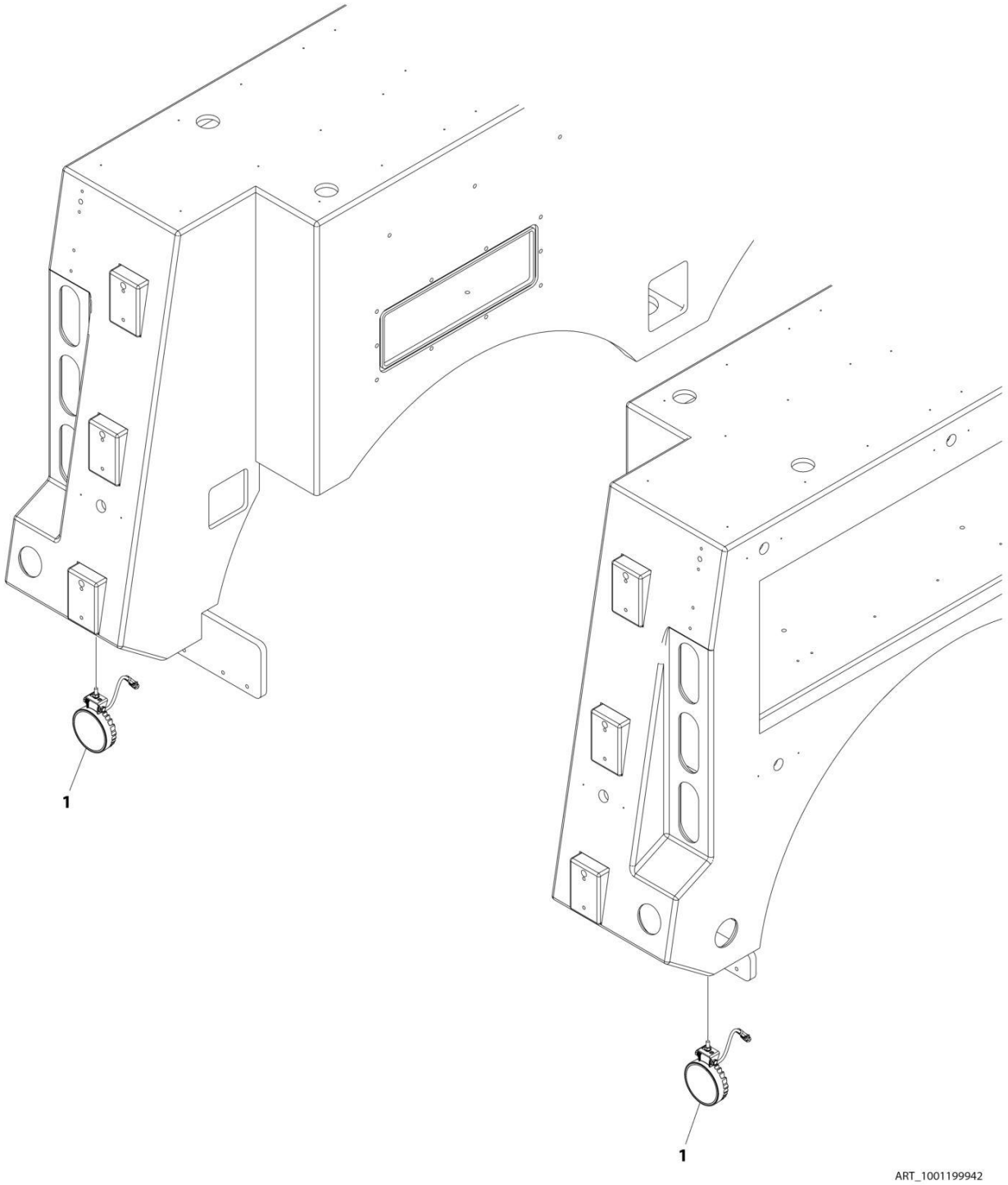


FIGURE 7-40. LIGHTS - HOOK UP LIGHTS INSTALLATION (LOWER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199942	Ref	LOWER LIGHTS HOOK-UP INSTALLATION	C
1	1001273634	2	Lamp	

FIGURE 7-41. LIGHTS - HOOK UP LIGHTS INSTALLATION (UPPER)

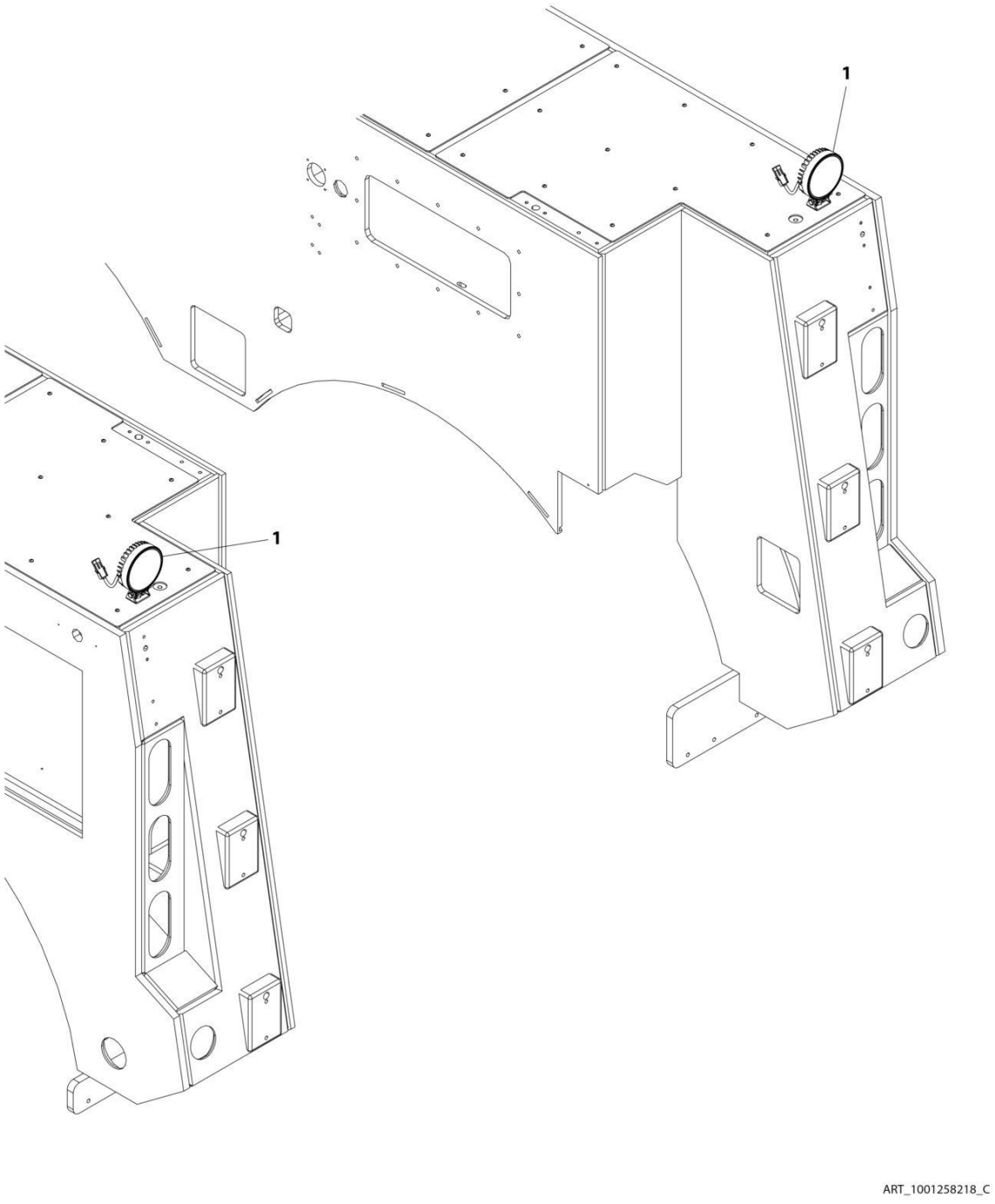


FIGURE 7-41. LIGHTS - HOOK UP LIGHTS INSTALLATION (UPPER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001258218	Ref	UPPER HOOK-UP LIGHTS INSTALLATION	C
1	1001273634	2	Lamp	
2	8798820001	AR	Sealant (Not Shown)	

FIGURE 7-42. LIGHTS - LIGHTBAR 50T ROTATOR INSTALLATION

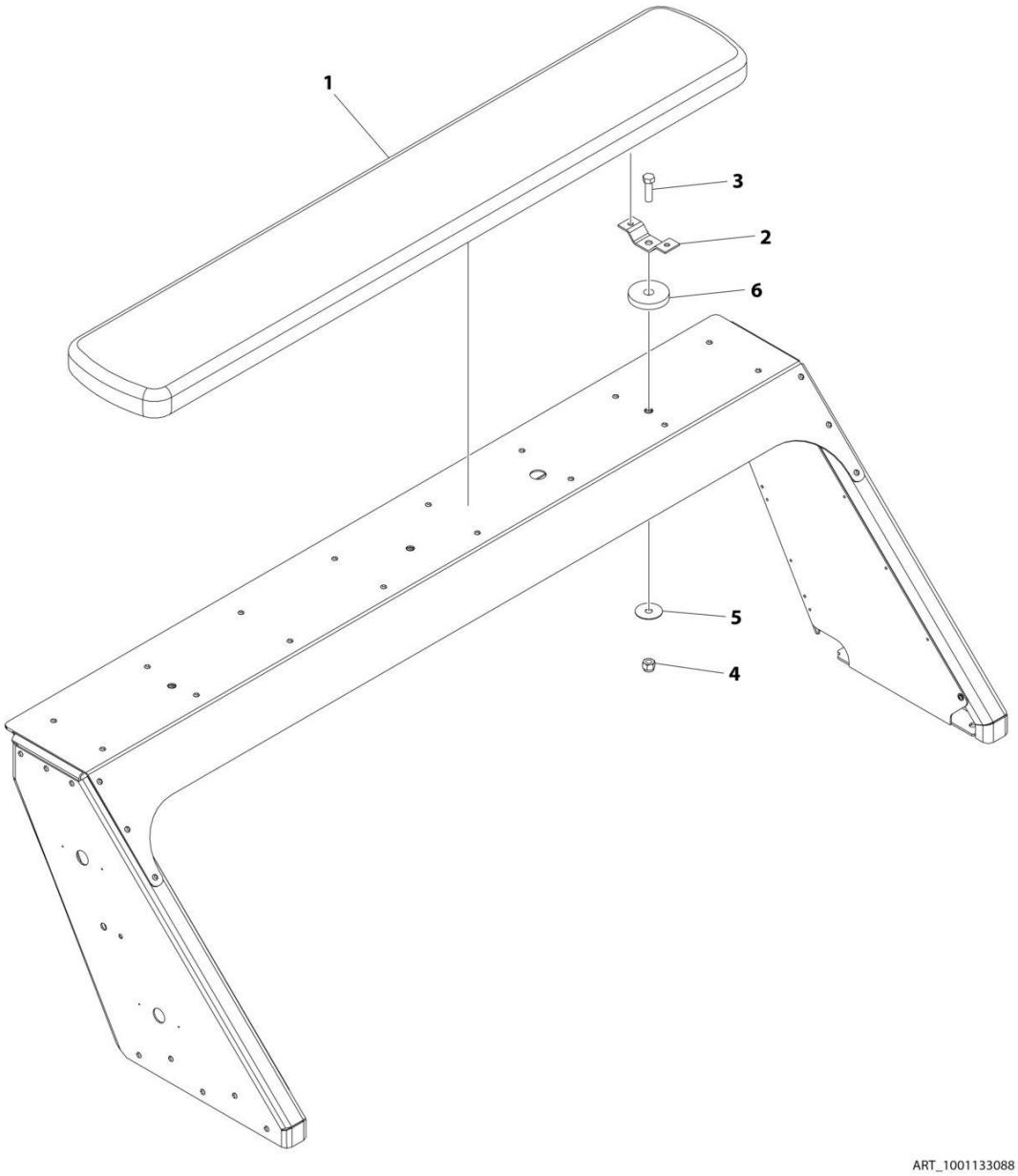
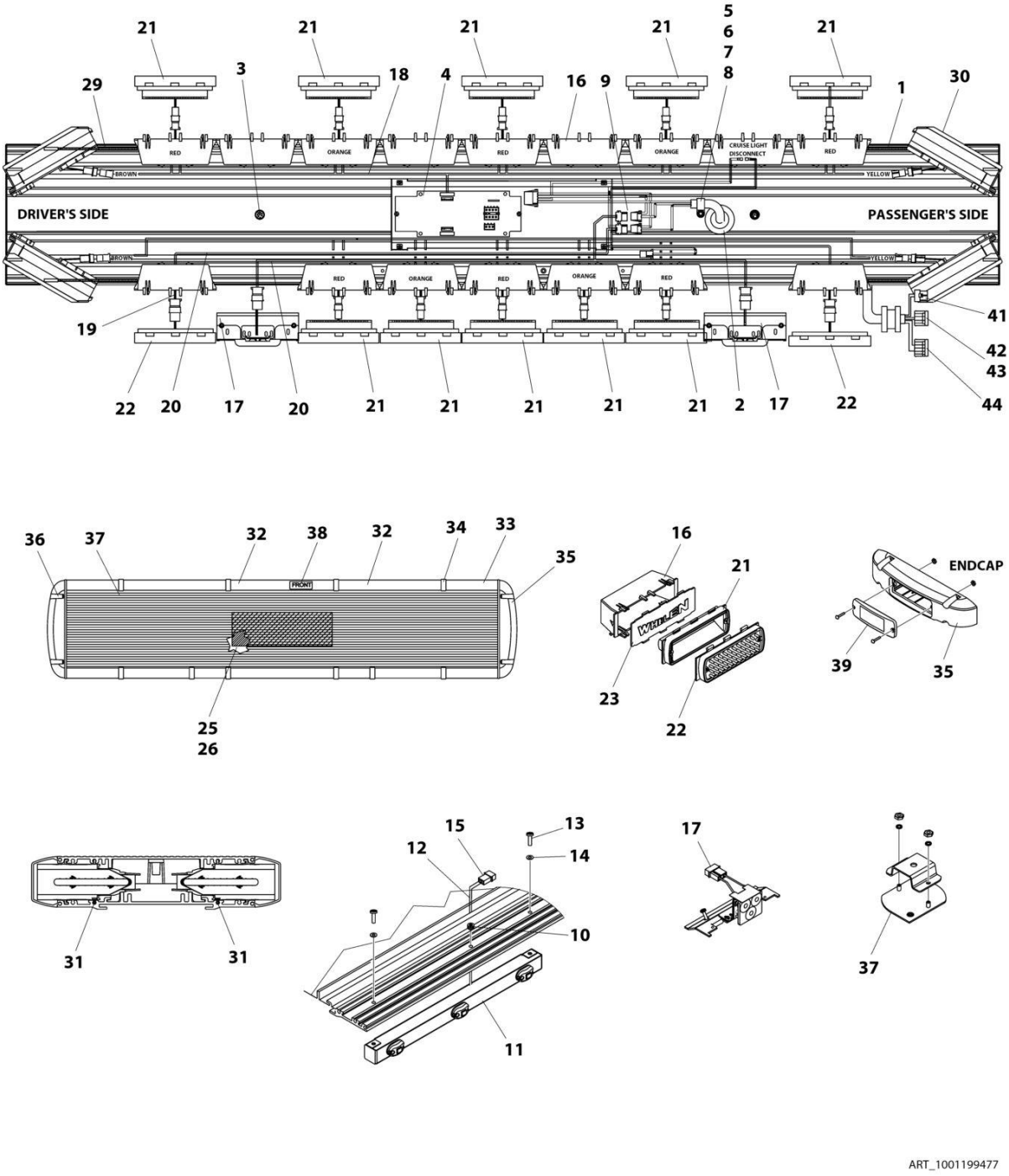


FIGURE 7-42. LIGHTS - LIGHTBAR 50T ROTATOR INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001133088	Ref	Lightbar 50T Rotator Installation	D
1	1001199477	1	Lightbar 72” LED - Whelen (See Separate Breakdown in this Section)	
2	4178000402	3	Bracket	
3	7115181450	3	Capscrew 1/2 - 13NC x 1-3/4	
4	7660182601	3	Nut 1/2	
5	7949000072	3	Washer 1/2	
6	4831000128	3	Spacer	

FIGURE 7-43. LIGHTS - LIGHTBAR ASSEMBLY - WHELEN (72IN)



ART_1001199477

FIGURE 7-43. LIGHTS - LIGHTBAR ASSEMBLY - WHELEN (72IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199477	Ref	Lightbar 72” LED - Whelen	B
1	70050392	1	Base	
2	70050169	1	Grommet	
3	70050170	2	Plug	
4	70050163	1	Assembly, HC I/O Liberty, Jerr-Dan	
5	70050171	1	Cable	
6	70050172	1	Screw #10 x 1	
7	70050393	1	Clamp	
8	70050174	1	Wiznut #10	
9	70050175	2	Housing	
10	70050176	1	Grommet	
11	70050177	1	Light Cluster	
12	70050178	1	Harness	
13	70050179	2	Screw #10 x 1/2	
14	70050180	2	Washer #10	
15	70050181	1	Housing	
16	70050182	16	Housing	
17	70050183	2	LR11 TD Single Full	
18	70050394	2	Harness	
19	70050185	1	Harness	
20	70050186	1	Harness	
21	70050187	10	Light Assembly, LED	
22	70050188	2	500 BTT Max	
23	70050189	4	Panel	
24	70050190	2	End Support Bracket (Not Shown)	
25	70050191	1	Insulator	
26	70050192	1	Decal	
27	70050395	1	Top Cover (Not Shown)	
28	70050194	4	Screw #10 x 3/8 (Not Shown)	
29	70050195	4	Spacer	
30	70050196	4	Corner LED Assembly	
31	70050197	4	Spacer	
32	70050199	6	Lens	
33	70050200	4	Lens	
34	70050201	8	Lens Divider	
35	70050202	2	End Cap	
36	70050203	8	Screw #10 x 1-1/4	
37	70050204	3	Rotational Mtg Adapter	
38	70050205	1	Label, “Front”	
39	70050206	1	Label, Jerr-Dan Logo	
40	70050207	1	Label, Model and Serial Number (Not Shown)	
41	70050208	1	Connector	
42	70050209	1	Connector	
43	70050210	1	Connector	
44	70050211	1	Connector	

FIGURE 7-44. LIGHTS - MARKER LIGHTS INSTALLATION (TALL TUNNEL)

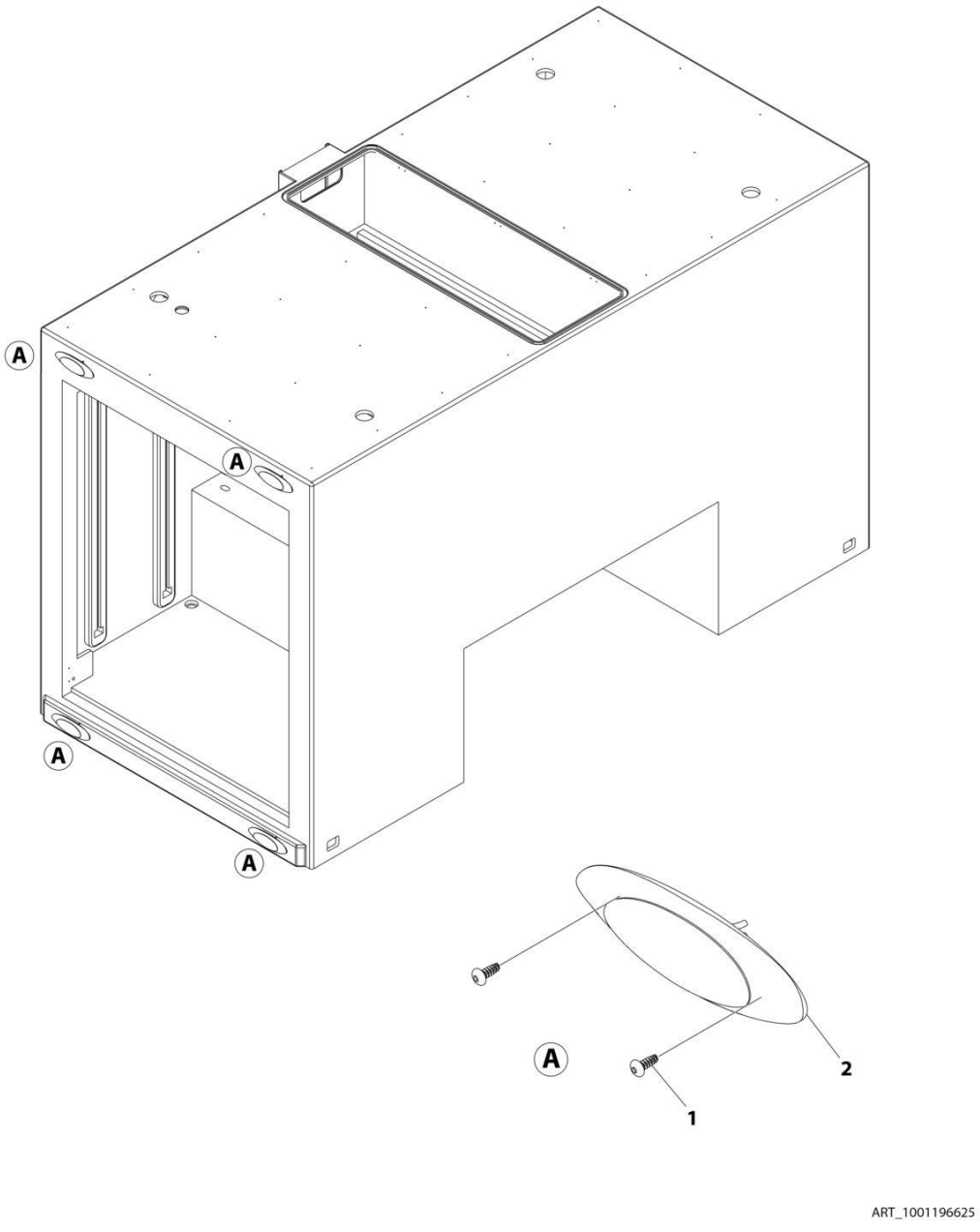


FIGURE 7-44. LIGHTS - MARKER LIGHTS INSTALLATION (TALL TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196625	Ref	LIGHTS - MARKER LIGHTS INSTALLATION, 48IN TUNNEL	D
1	1001192958	16	Screw #10 x 1/2	
2	7590000358	8	Light	

FIGURE 7-45. LIGHTS - MARKER LIGHTS INSTALLATION - TUNNEL (SHORT)

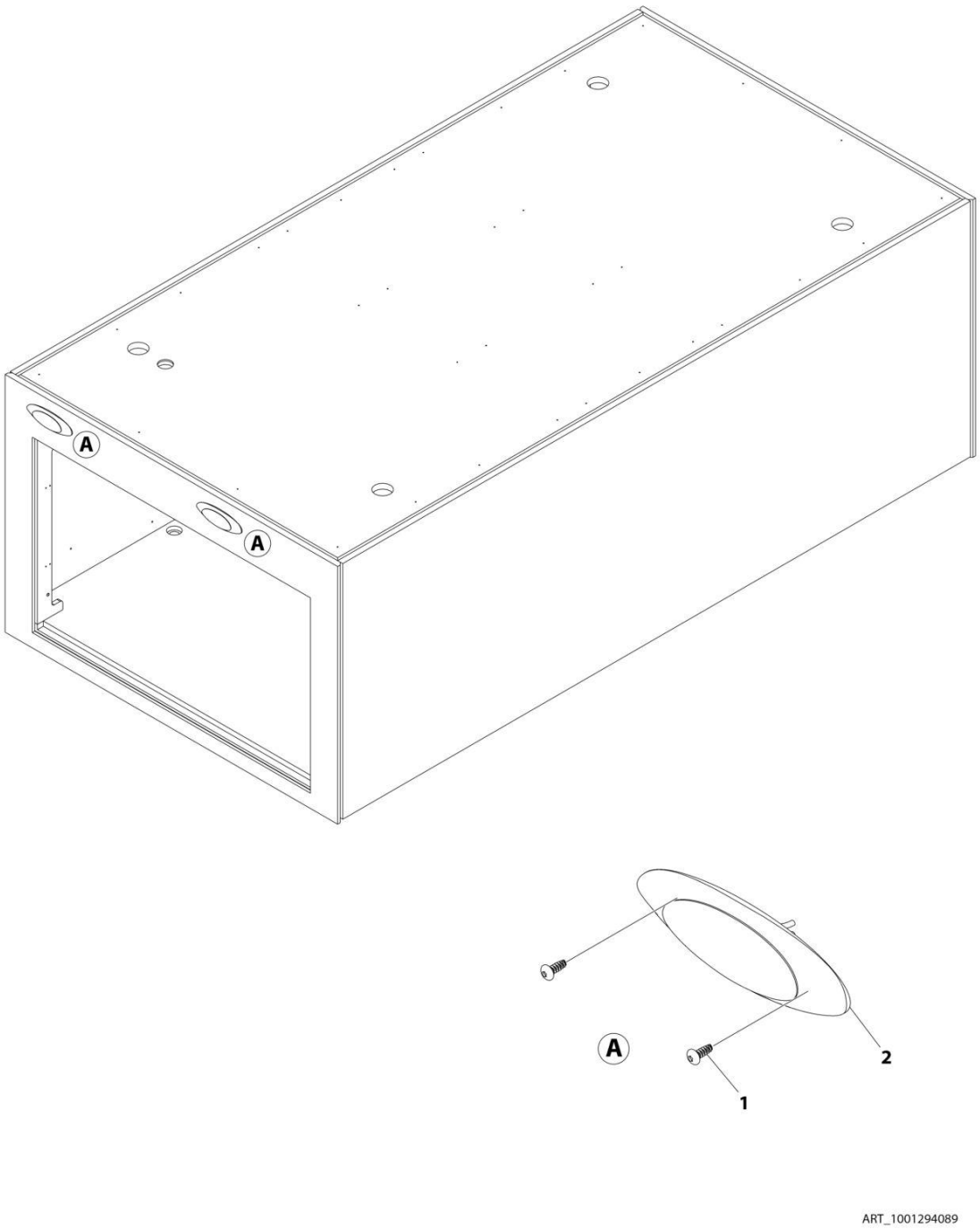


FIGURE 7-45. LIGHTS - MARKER LIGHTS INSTALLATION - TUNNEL (SHORT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001294089	Ref	MARKER LIGHTS INSTALLATION - 48IN TUNNEL	A
1	1001192958	8	Screw #10 x 1/2	
2	7590000358	4	Light	

FIGURE 7-46. LIGHTS - MARKER LIGHTS INSTALLATION - TUNNEL 56IN

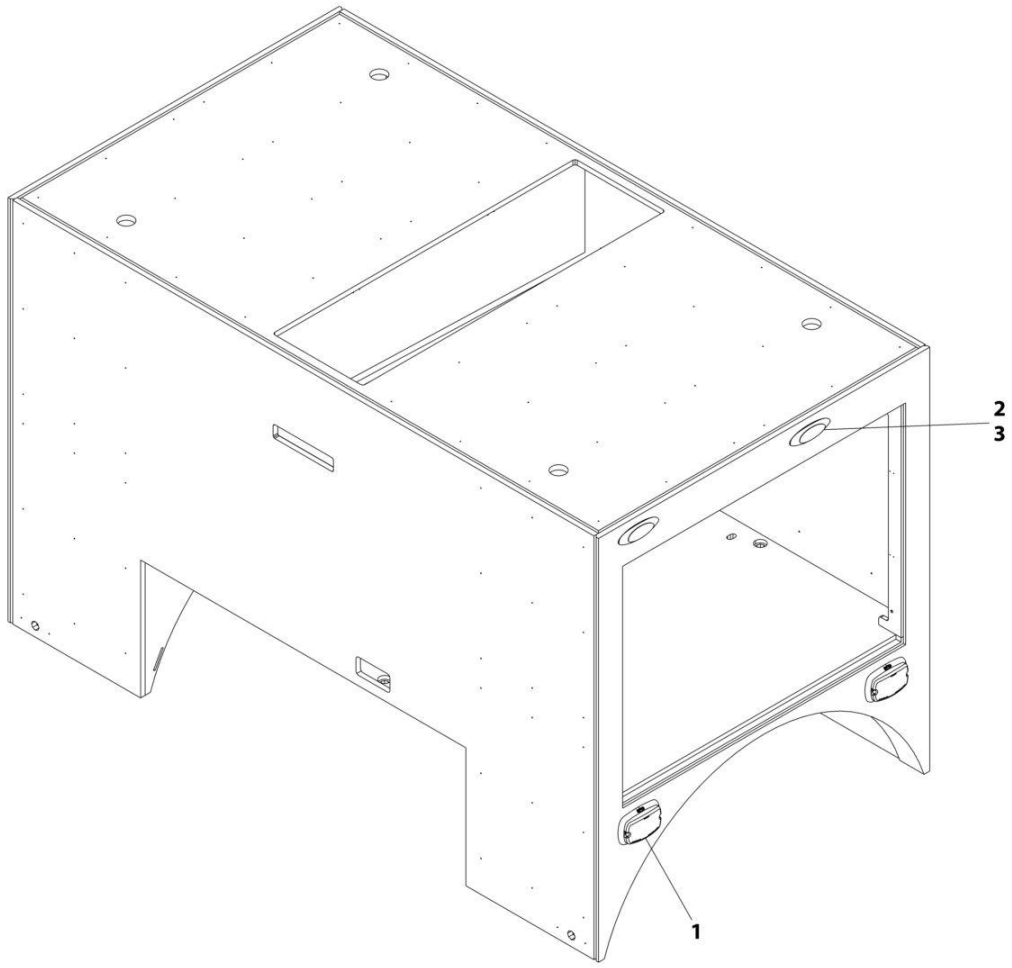


FIGURE 7-46. LIGHTS - MARKER LIGHTS INSTALLATION - TUNNEL 56IN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307297	Ref	LIGHTS INSTALLATION - MARKER LIGHTS	A
1	1001143284	4	Lamp	
2	1001192958	8	Screw #10 x 1/2	
3	7590000358	4	Light, Marker (Amber)	

FIGURE 7-47. LIGHTS - OUTRIGGER LIGHTS INSTALLATION

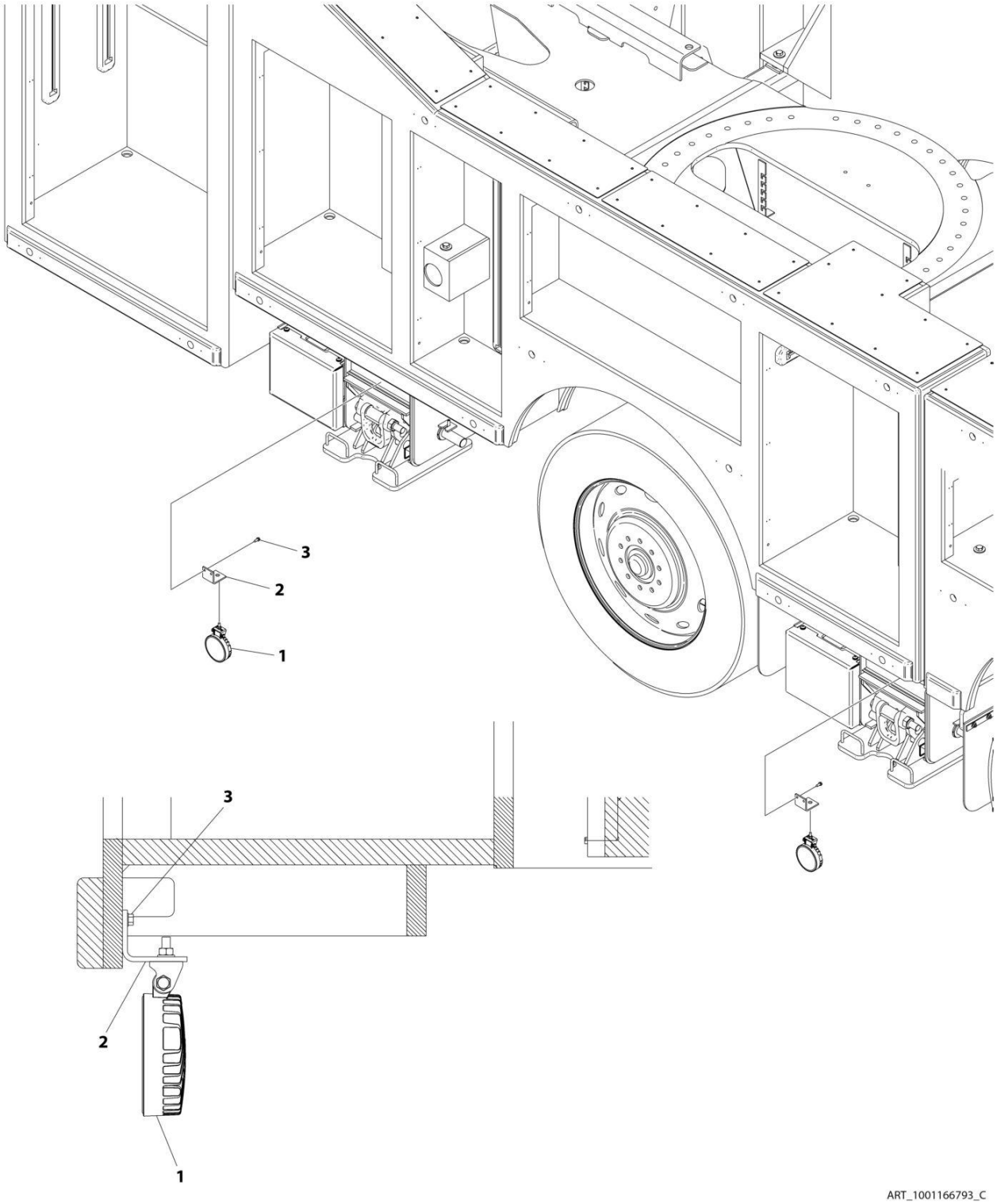


FIGURE 7-47. LIGHTS - OUTRIGGER LIGHTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166793	Ref	OUTRIGGER LIGHT INSTALLATION	C
1	1001273634	4	Lamp	
2	4178000659	4	Bracket	
3	7790141251	8	Screw 1/4 x 3/4	

FIGURE 7-48. LIGHTS - UNDERLIFT LIGHT INSTALLATION

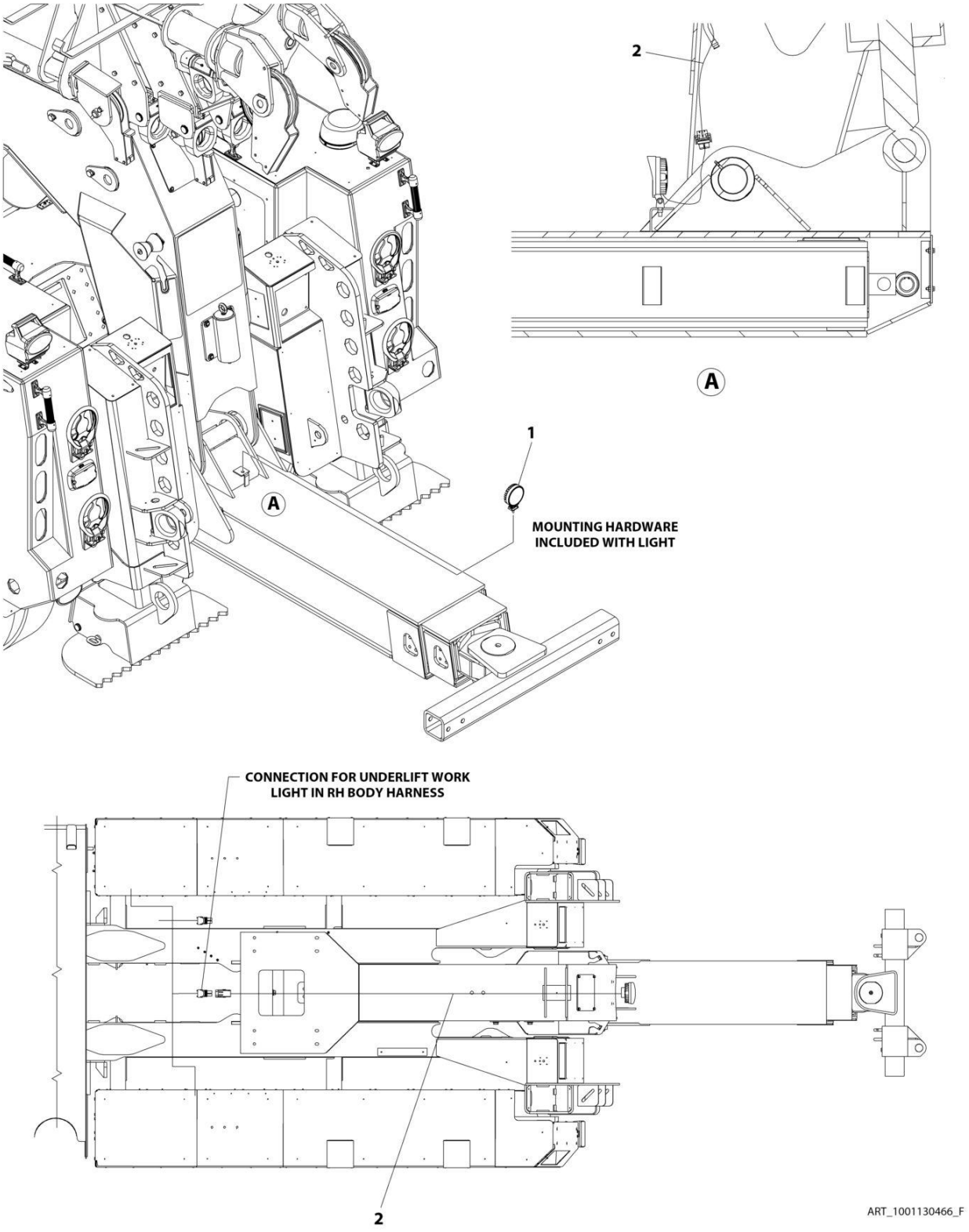


FIGURE 7-48. LIGHTS - UNDERLIFT LIGHT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130466	Ref	UNDERLIFT LIGHT INSTALLATION	F
1	1001273634	1	Lamp	
2	1001231637	1	Harness (See Separate Breakdown in this Section)	
6	7894000010	12	Tie-Strap (Not Shown)	

FIGURE 7-49. LIGHTS - WING LIGHT INSTALLATION

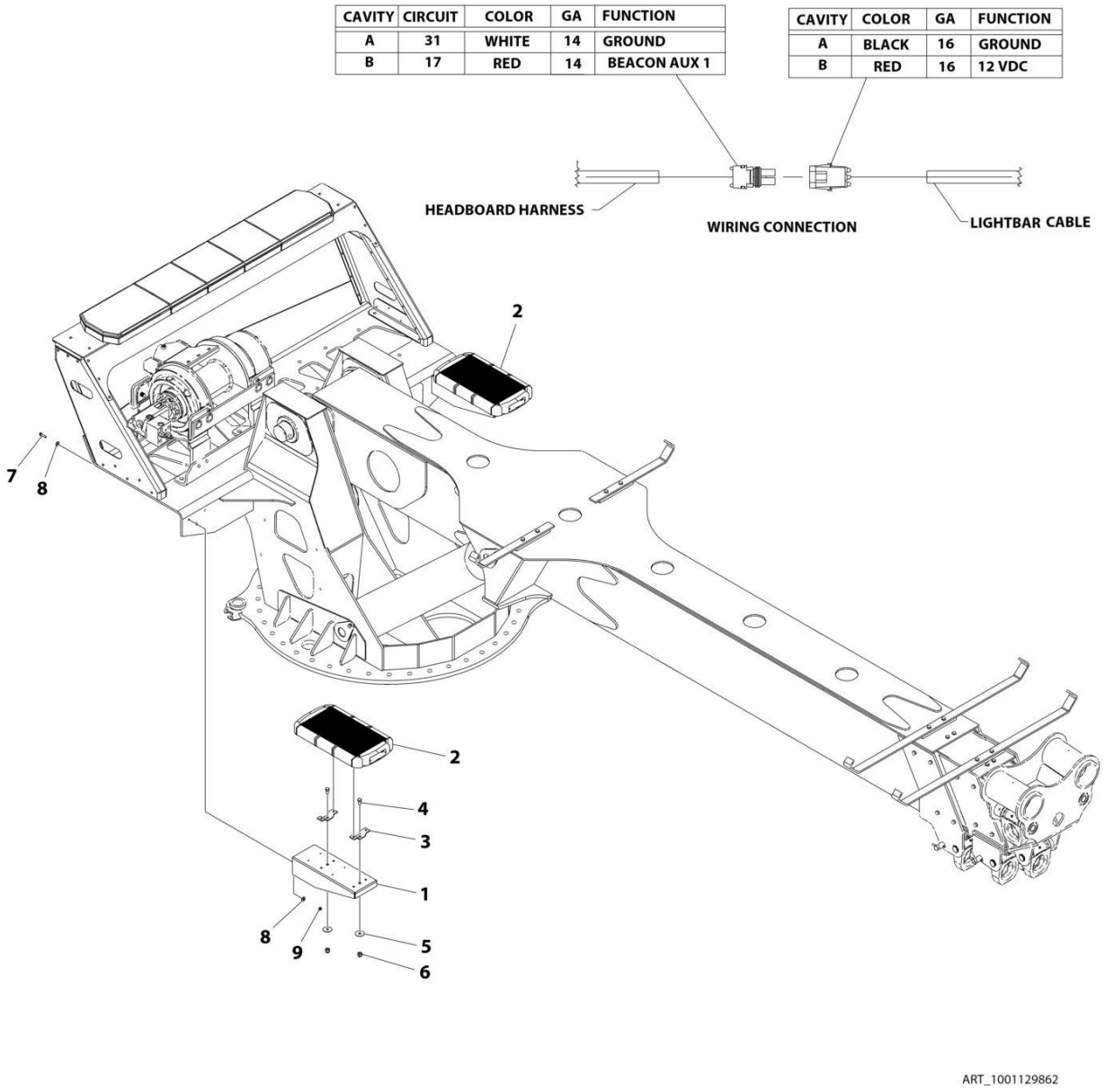
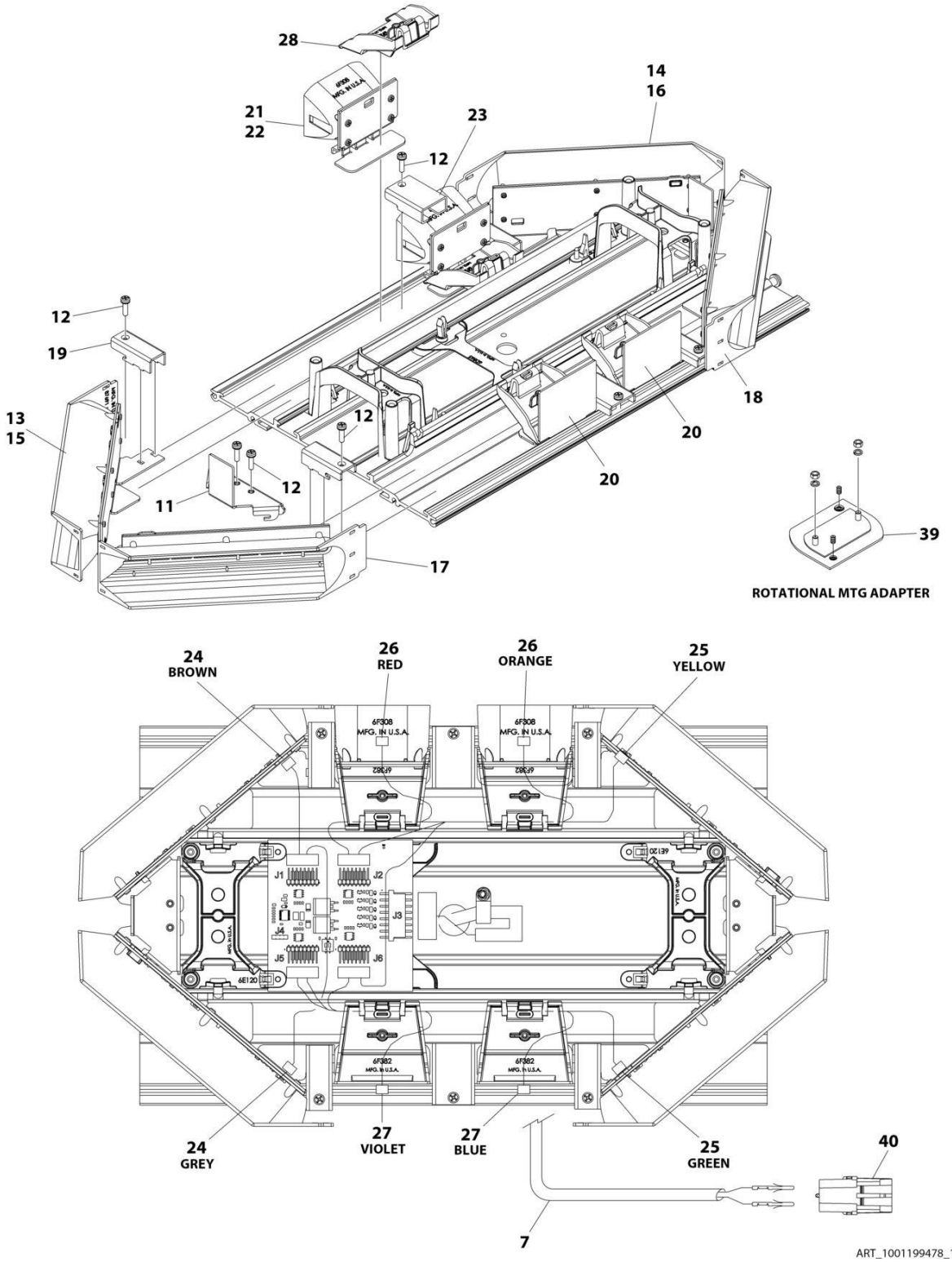


FIGURE 7-49. LIGHTS - WING LIGHT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129862	Ref	Wing Light Installation	C
1	1001129828	2	Bracket	
2	1001199478	2	Whelen Light Bar, 22" (See Separate Breakdown in this Section)	
3	4178000402	4	Bracket	
4	7115180850	4	Capscrew 1/2 x 1	
5	7949000072	4	Washer 1/2	
6	7660182601	4	Nut 1/2	
7	7115161250	6	Bolt 3/8 x 1-1/2	
8	7950160161	12	Washer 3/8	
9	7660162601	6	Nut 3/8	
10	7894000042	4	Tie Strap (Not Shown)	

FIGURE 7-50. LIGHTS - WING LIGHTS ASSEMBLY - 22IN AMBER (WHELEN)



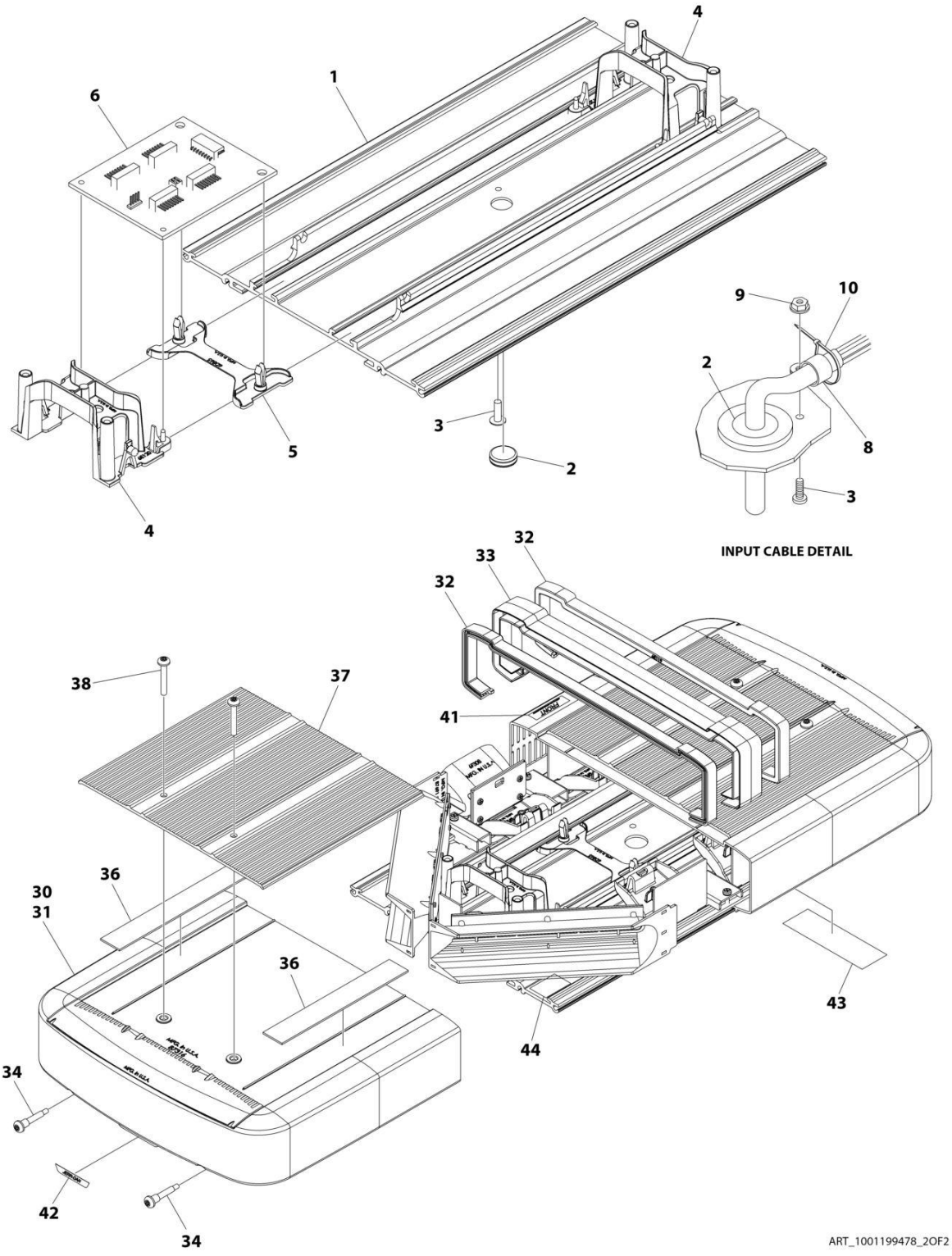
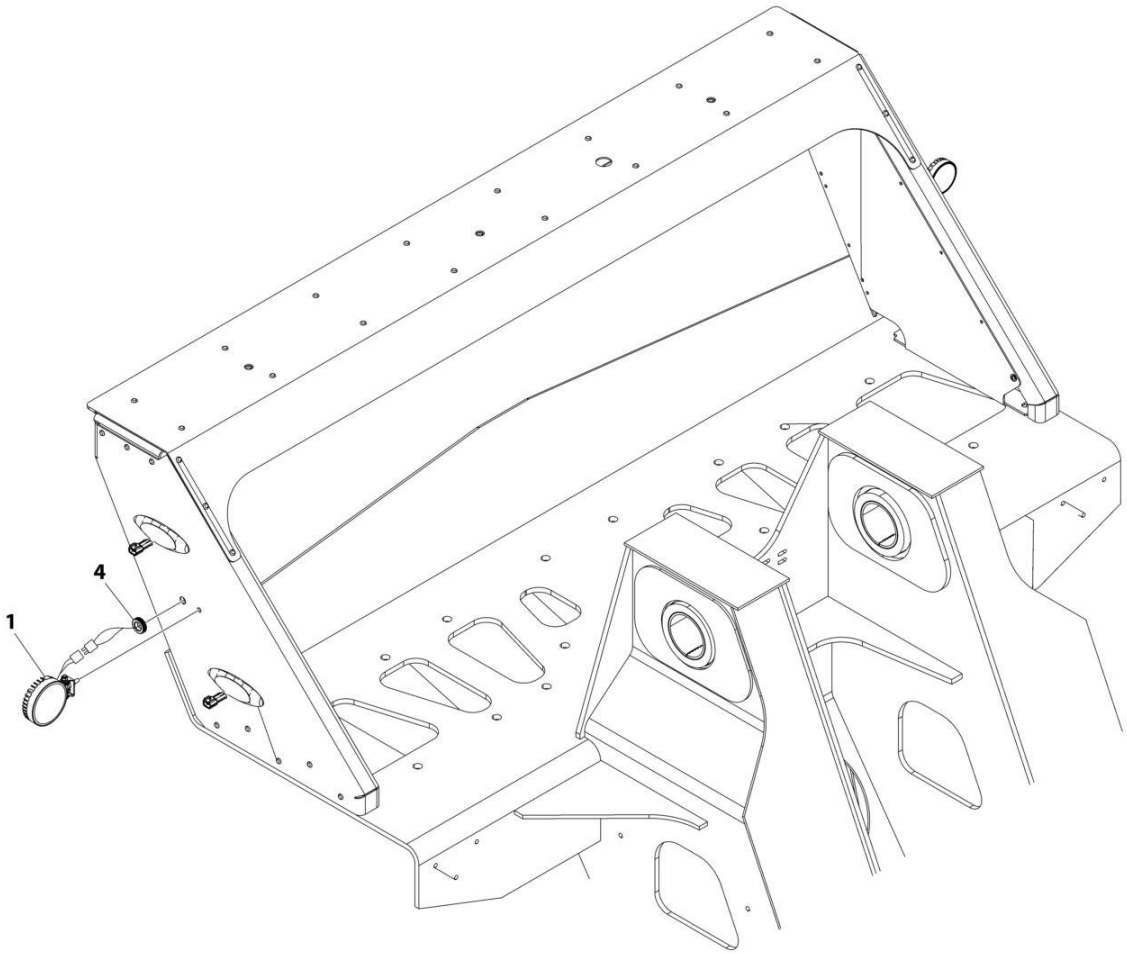

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ART_1001199478_2OF2

FIGURE 7-50. LIGHTS - WING LIGHTS ASSEMBLY - 22IN AMBER (WHELEN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001199478	Ref	LIGHTS - LAMP ASSEMBLY - 22IN WHELEN WING LIGHT	B
1	70051019	1	Base	
2	70050169	1	Grommet	
3	70051020	1	Screw #10 x 7/8	
4	70051021	2	Bracket, Bulkhead Lens Mount	
5	70051022	1	Bracket, I/O Anchor	
6	70051023	1	Assembly, I/O BD Mini	
7	70051024	1	Assembly, Cable	
8	70051025	1	Clamp, Cable	
9	70050174	1	Nut #10	
10	70051026	AR	Tie Wrap	
11	70051027	2	Bracket, End Clamp	
12	70051028	10	Screw #6 x 1/2	
13	70051029	1	Assy, Corner L-Front/R-Rear Amber	
14	70051030	1	Assy, Corner L-Rear/R-Front Amber	
15	70051031	1	Assy, Corner L-Front/R-Rear Blue	
16	70051032	1	Assy, Corner L-Rear/R-Front Blue	
17	70051033	1	Assembly, Blank Rear Drvr Corner	
18	70051034	1	Assembly, Blank Rear Pass Corner	
19	70051035	4	Bracket, Corner Clamp	
20	70051036	2	Bracket, Half Filler	
21	70051037	2	Sub Assy, Short Directional Amber	
22	70051038	2	Sub Assy, Short Directional Blue	
23	70051039	2	Bracket, Filler	
24	70051040	1	Assembly, Harness	
25	70051041	1	Assembly, Harness	
26	70051042	1	Assembly, Harness	
27	70051043	1	Assembly, Harness	
28	70051044	4	Bracket, Snap-In	
29	70051045	AR	Tie Wrap (Not Shown)	
30	70051046	2	Sub Assy, Cut Dome Clear	
31	70051047	2	Sub Assy, Cut Dome Blue	
32	70051048	2	Seal, Lens Divider	
33	70051049	1	Divider, Lens	
34	70051050	4	Screw #10 x 1-1/4	
36	70051051	4	Tape, VHB Endcap Trim Mount	
37	70051052	2	Cover	
38	70051053	4	Screw #10 x 7/8	
39	70050204	2	Kit, Rotational MTG Adapter Jerr-Dan	
40	70051054	1	Housing, 2 POS Male Weather-Pack Sealed	
41	70051055	1	Label, "Front" Lightbar Assys	
42	70051056	2	Label, Jerr-Dan Liberty II	
43	70050207	1	Label, MN/SN Jerr-Dan Lightbar	
44	70051057	1	Label, Serial Number Liberty II Series	

FIGURE 7-51. LIGHTS - WORKLIGHT INSTALLATION - UPPER



ART_1001131169_D

FIGURE 7-51. LIGHTS - WORKLIGHT INSTALLATION - UPPER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131169	Ref	UPPER WORK LIGHT INSTALLATION	D
1	1001273634	2	Lamp	
2	8597650002	1 ft	Wire Loom (Not Shown)	
4	7493000021	2	Grommet	

FIGURE 7-52. LIGHTS - WRECKER BOOM LIGHTS INSTALLATION (WHELEN)

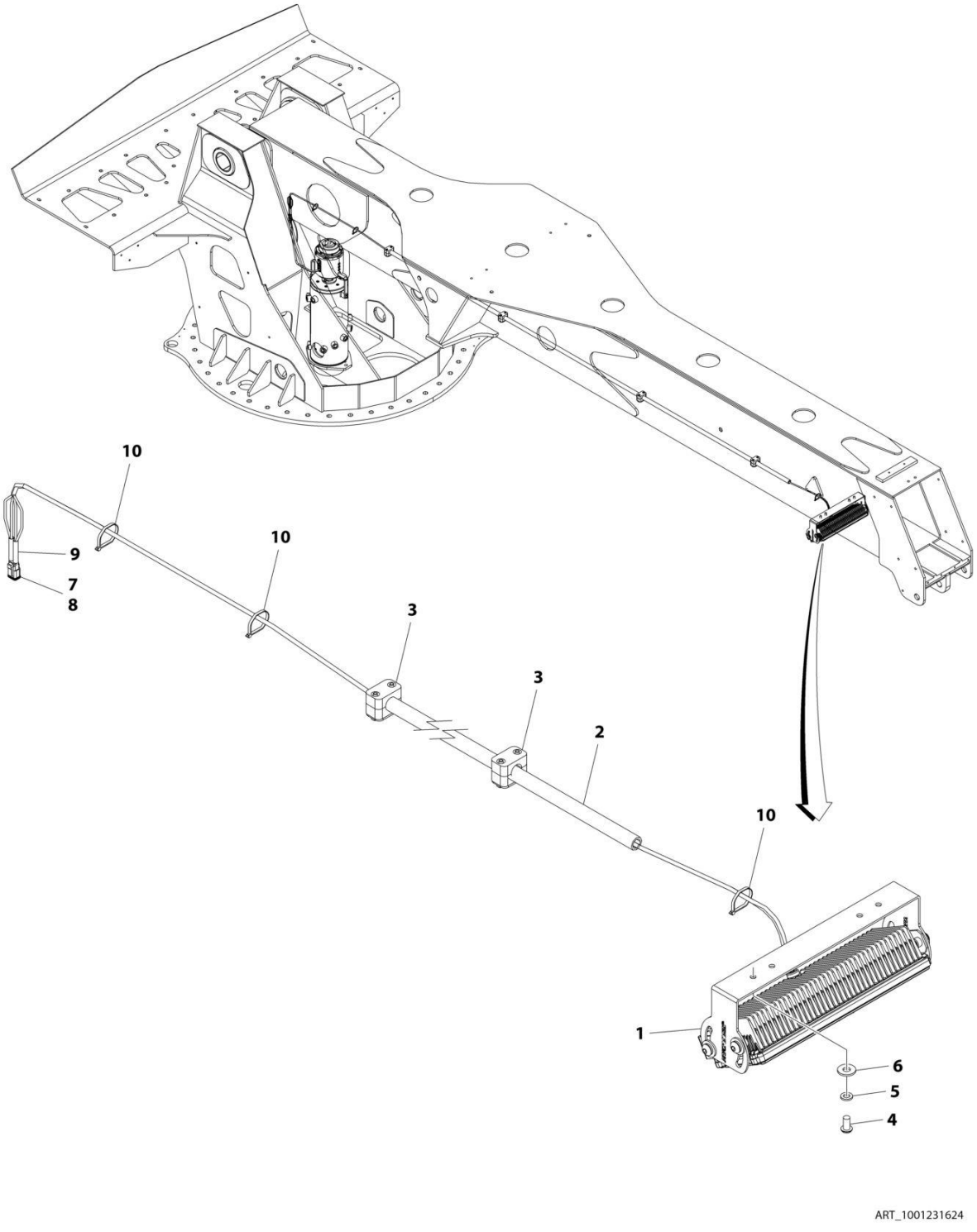


FIGURE 7-52. LIGHTS - WRECKER BOOM LIGHTS INSTALLATION (WHELEN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231624	Ref	WRECKER BOOM LIGHTS INSTALLATION	B
1	1001130429	1	Lamp	
2	1001206319	1	Tube	
3	7247000095	4	Assembly, Clamp	
4	7114160618	4	Capscrew 3/8 x 3/4	
5	7950160003	4	Nut 3/8	
6	7950160163	4	Washer 3/8	
7	4461018	1	Electrical Terminal	
8	4460509	2	Electrical Socket	
9	7346000039	AR	Tubing, Heat Shrink	
10	7894000010	3	Tie Strap	

FIGURE 7-53. LIGHTS - WRECKER BOOM LIGHTS INSTALLATION (LED)

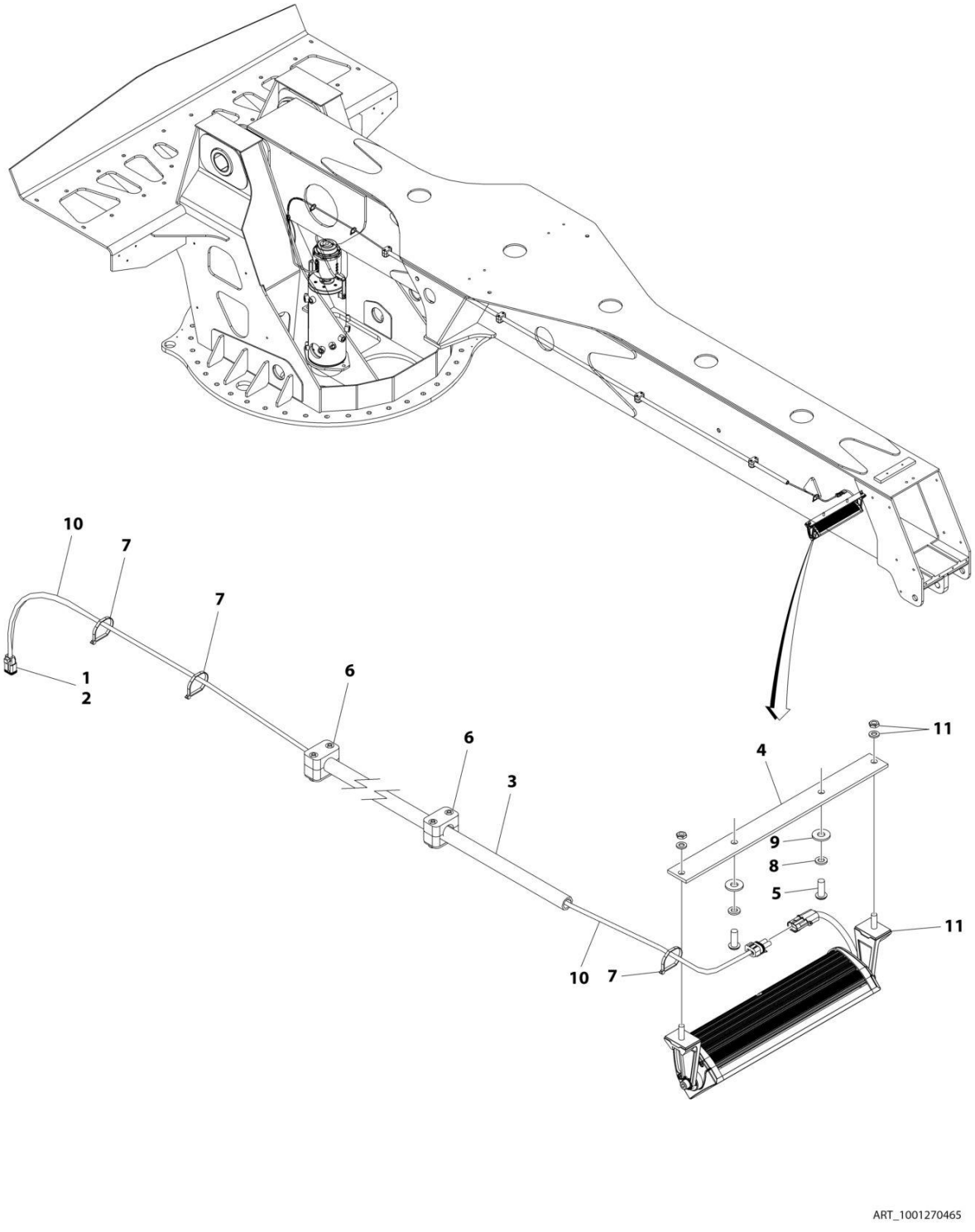


FIGURE 7-53. LIGHTS - WRECKER BOOM LIGHTS INSTALLATION (LED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001270465	Ref	WRECKER BOOM LIGHTS INSTALLATION	A
1	4460509	2	Electrical Socket	
2	4461018	1	Electrical Terminal	
3	1001206319	1	Tube	
4	1001270464	1	Bracket	
5	7114160618	2	Capscrew 3/8 x 3/4	
6	7247000095	4	Assembly, Clamp	
7	7894000010	3	Tie Strap	
8	7950160003	2	Nut 3/8	
9	7950160163	2	Washer 3/8	
10	1001212488	1	Harness	
11	1001270479	1	Lamp	

FIGURE 7-54. MAIN WINCH HARNESS, 2 - SPEED

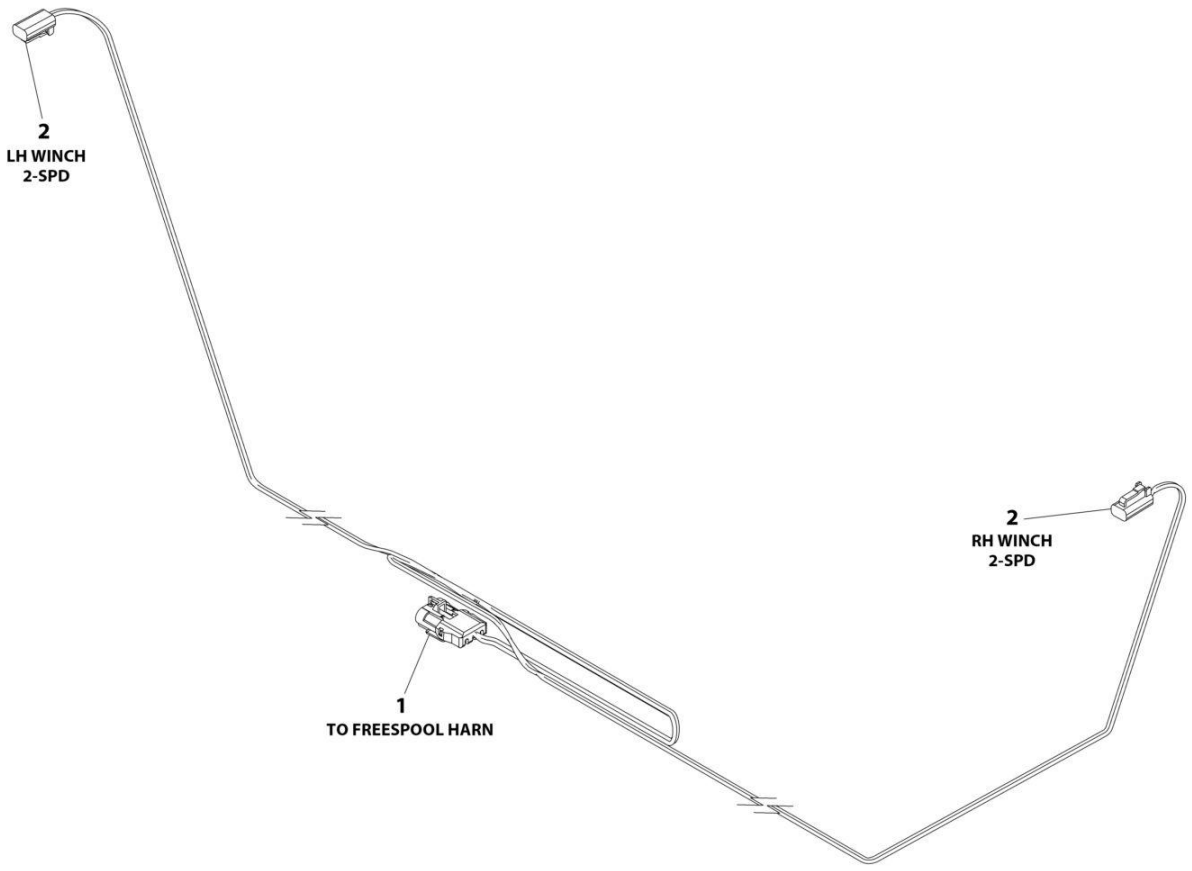


FIGURE 7-54. MAIN WINCH HARNESS, 2 - SPEED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231251	Ref	MAIN WINCH HARNESS, 2 - SPEED	B
1	4460476	1	Connector 3 Position	
1	4460475	3	Terminal	
2	4460891	2	Connector 2 Position	
2	4460465	4	Terminal	

FIGURE 7-55. MID BODY HARNESS - MAIN (WITH AXLE)

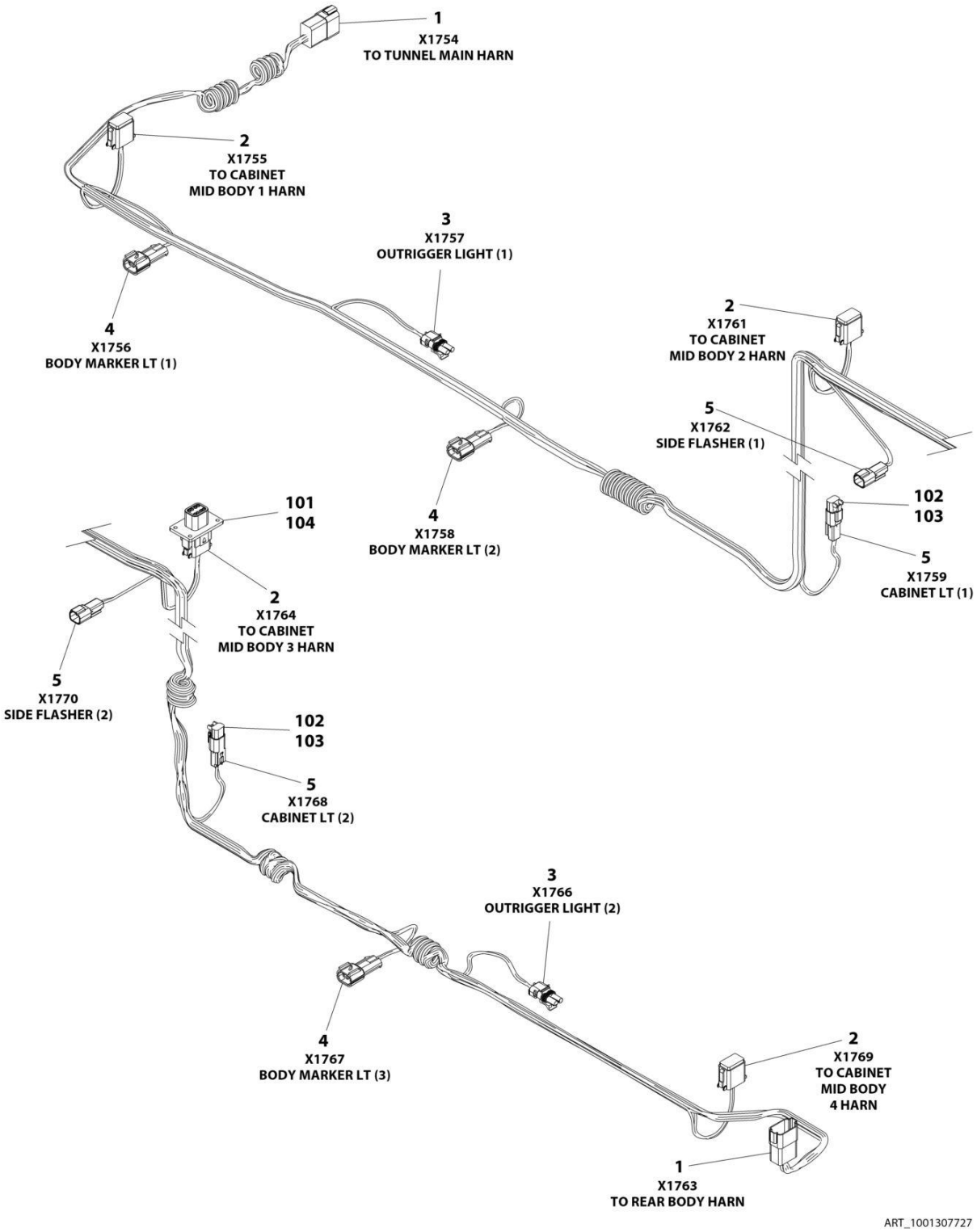


FIGURE 7-55. MID BODY HARNESS - MAIN (WITH AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307727	Ref	MID BODY HARNESS - MAIN	A
1	4460931	2	Connector 8 Position	
1	4490941	14	Terminal	
1	4460466	2	Plug, Terminal	
2	4460930	4	Connector 8 Position	
2	4460465	14	Terminal	
2	4460466	18	Plug, Terminal	
3	4460742	2	Connector 2 Position	
3	4460457	4	Terminal	
4	1001117026	3	Connector 2 Position	
4	1001116745	6	Terminal	
5	4460897	4	Connector 2 Position	
5	4460464	8	Terminal	
101	4460464	8	Terminal	
102	4460465	4	Terminal	
103	4460891	2	Connector 2 Position	
104	1001269275	1	Connector 8 Position	

FIGURE 7-56. MID BODY HARNESS - MAIN (WITHOUT AXLE)

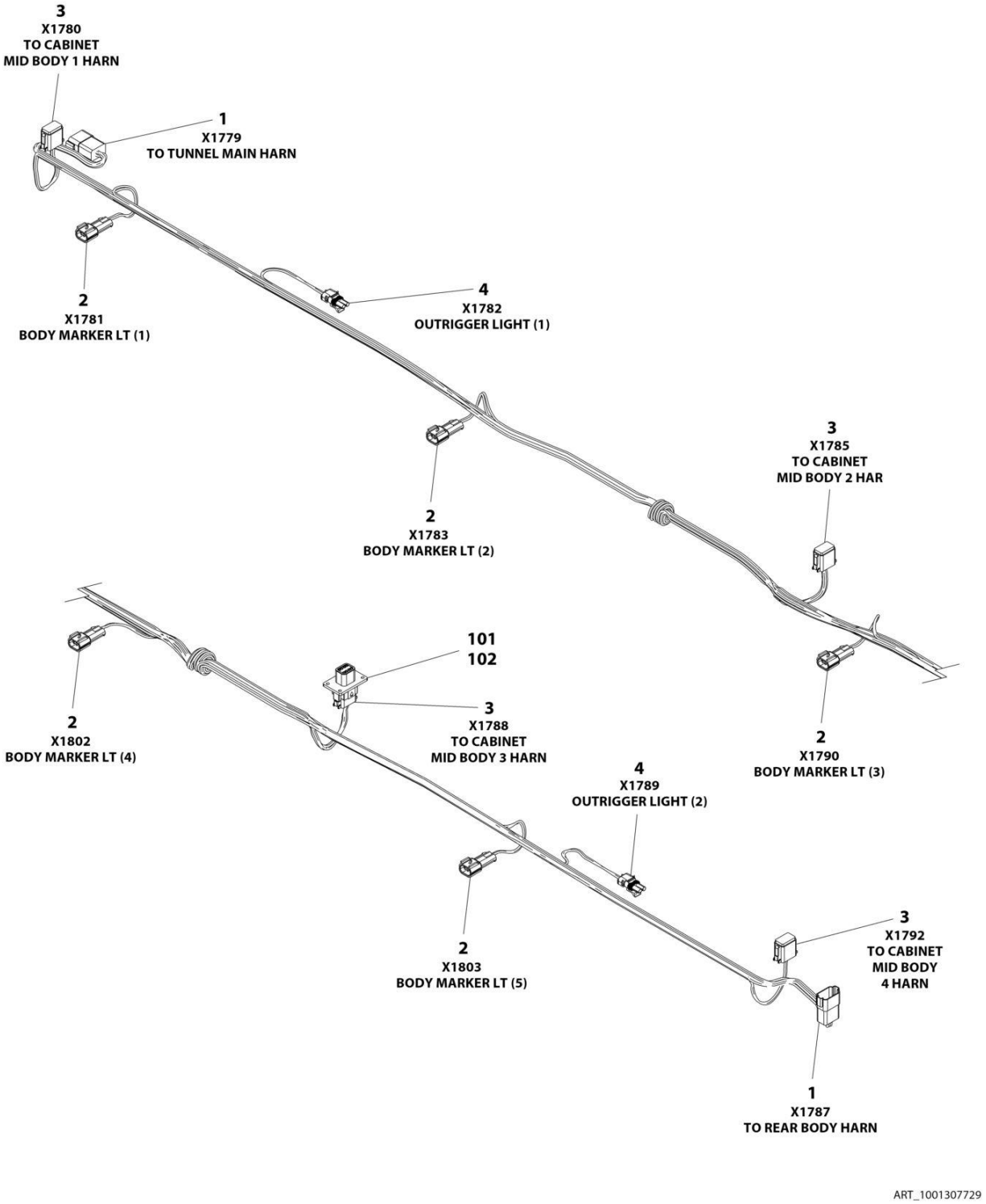


FIGURE 7-56. MID BODY HARNESS - MAIN (WITHOUT AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001307729	Ref	MID BODY HARNESS - MAIN	A
1	4460931	2	Connector 8 Position	
1	4490941	14	Terminal	
1	4460466	2	Plug, Terminal	
2	1001117026	5	Connector 2 Position	
2	1001116745	10	Terminal	
3	4460930	4	Connector 8 Position	
3	4460465	14	Terminal	
3	4460466	18	Plug, Terminal	
4	4460897	2	Connector 2 Position	
4	4460464	4	Terminal	
101	4460464	8	Terminal	
102	1001269275	1	Connector 8 Position	

FIGURE 7-57. MULTIPLEX IN-CAB CONTROLS HARNESS (CONSOLE MOUNTED)

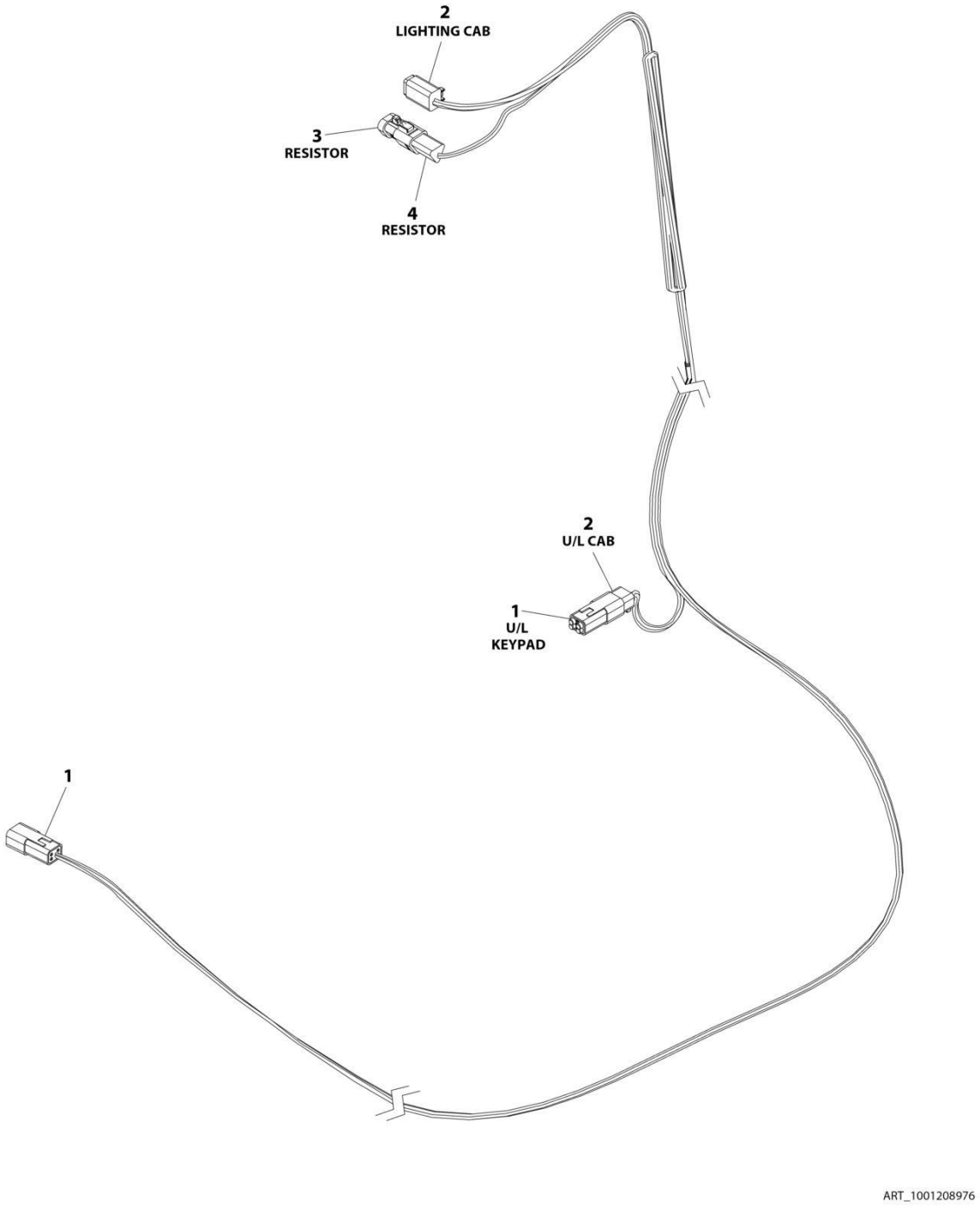


FIGURE 7-57. MULTIPLEX IN-CAB CONTROLS HARNESS (CONSOLE MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001208976	Ref	MULTIPLEX IN-CAB CONTROLS HARNESS (CONSOLE MOUNTED)	D
1	4460932	2	Receptacle, Female - 4 Position	
1	4460464	4	Pin, Male	
1	4460466	4	Plug, Terminal	
2	4460884	2	Plug, Male - 4 Position	
2	4460465	8	Socket, Female	
3	1001116815	1	Plug, Male - 3 Position with Resistor	
4	4460536	1	Receptacle, Female 3 Position	
4	4460464	2	Pin, Male	
4	4460466	1	Plug, Terminal	

FIGURE 7-58. MULTIPLEX IN-CAB CONTROLS HARNESS (FLOOR MOUNTED)

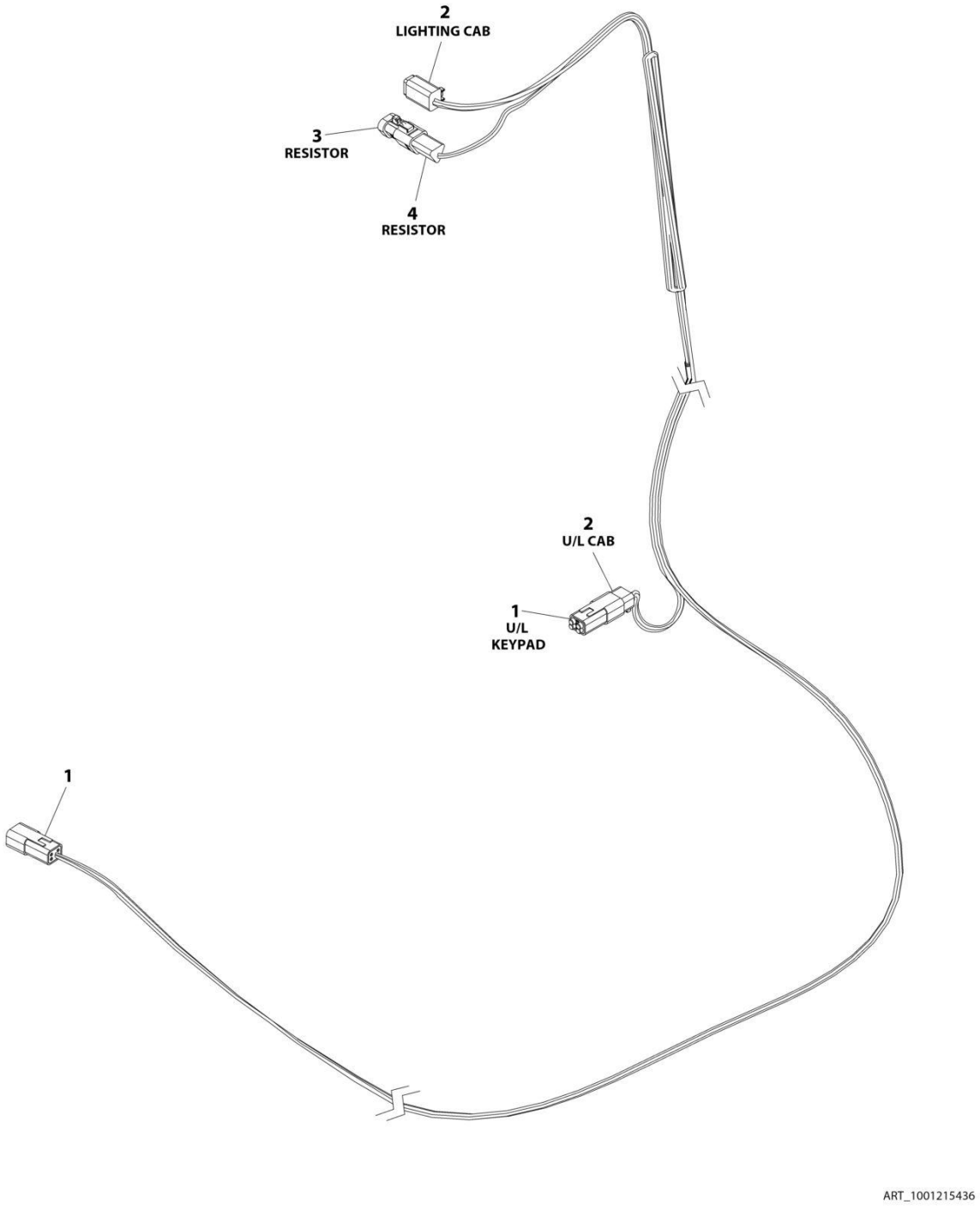


FIGURE 7-58. MULTIPLEX IN-CAB CONTROLS HARNESS (FLOOR MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215436	Ref	MULTIPLEX IN-CAB CONTROLS HARNESS (FLOOR MOUNTED)	B
1	4460932	2	Receptacle, Female - 4 Position	
1	4460464	4	Pin, Male	
1	4460466	4	Plug, Terminal	
2	4460884	2	Plug, Male - 4 Position	
2	4460465	8	Socket, Female	
3	1001116815	1	Plug, Male - 3 Position with Resistor	
4	4460536	1	Receptacle, Female 3 Position	
4	4460464	2	Pin, Male	
4	4460466	1	Plug, Terminal	

FIGURE 7-59. MULTIPLEX IN - CAB CONTROL HARNESS

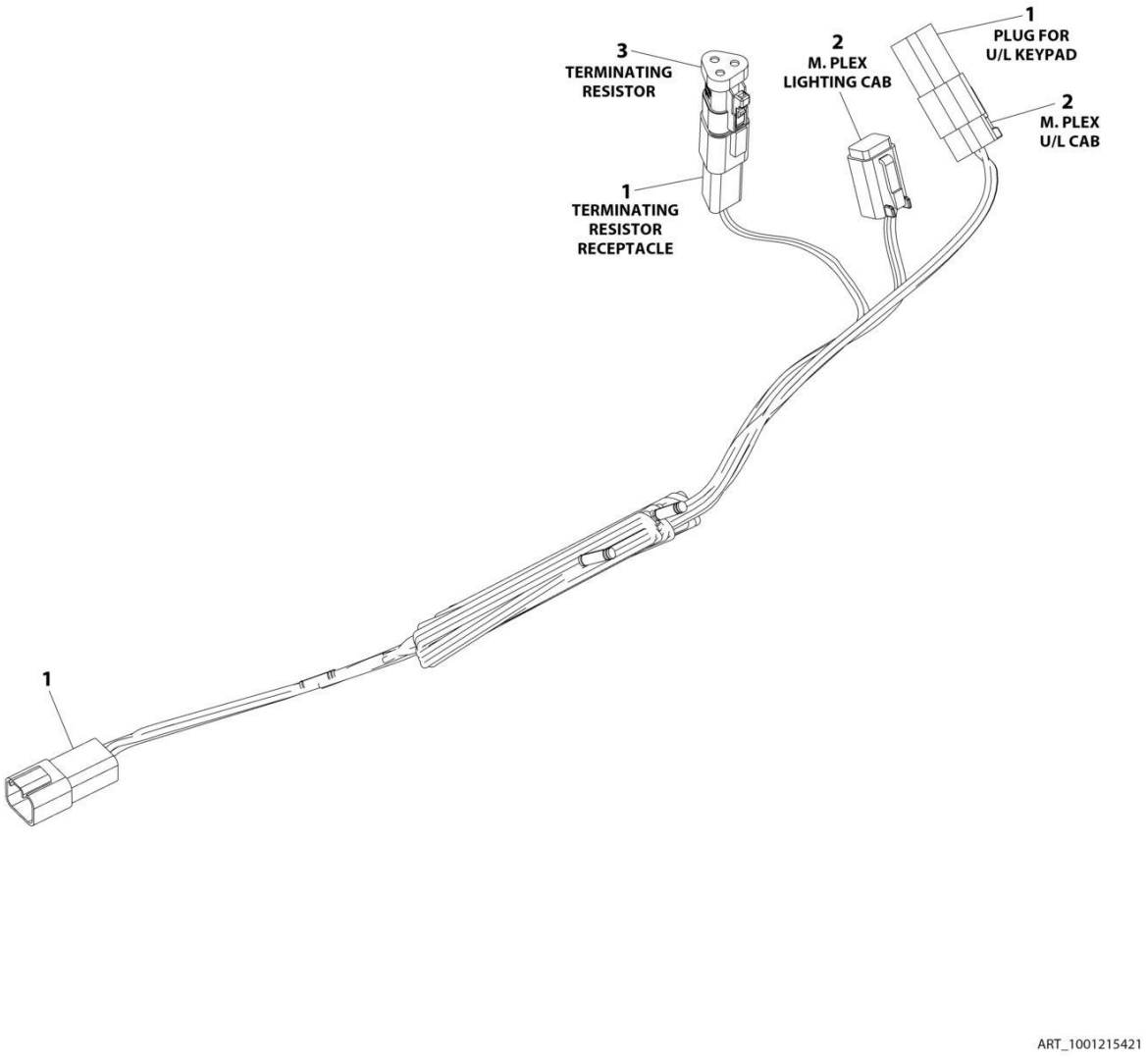


FIGURE 7-59. MULTIPLEX IN - CAB CONTROL HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215421	Ref	MULTIPLEX IN - CAB CONTROL HARNESS	A
1	4460932	3	Receptacle, Female - 4 Position	
1	4460464	7	Pin, Male	
1	4460466	5	Plug, Terminal	
2	4460884	2	Plug, Male	
2	4460465	8	Socket, Female	
3	1001166815	1	Resistor	

FIGURE 7-60. MULTIPLEX CONTROL HARNESS - (LH)

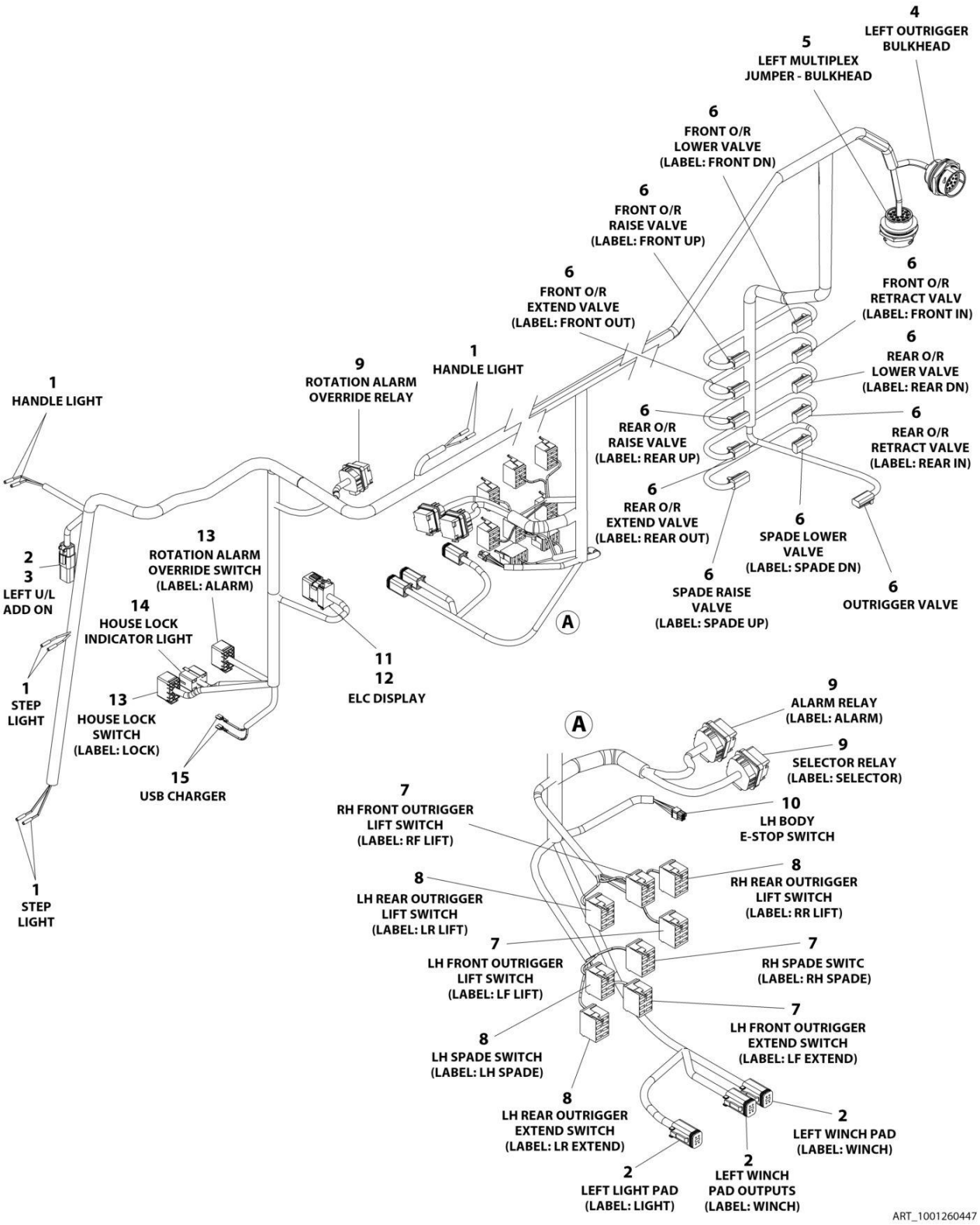


FIGURE 7-60. MULTIPLEX CONTROL HARNESS - (LH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001260447	Ref	MULTIPLEX CONTROL (LH) - HARNESS	C
1		Ref	Terminal	
2	4460884	4	Connector 4 Position	
2	4460465	16	Terminal	
3	4460932	1	Connector 4 Position	
3	4460466	4	Plug, Terminal	
4	1001182183	1	Connector 21 Position	
4	4460508	18	Terminal	
4	1001126010	1	Terminal (Gold)	
4	4460466	2	Plug, Terminal	
4		Ref	Gasket	
4		Ref	Nut	
4		Ref	Washer	
5	1001262723	1	Connector 21 Position	
5	4460508	2	Terminal	
5	4460464	16	Terminal	
5	4460466	3	Plug, Terminal	
5		Ref	Gasket	
5		Ref	Nut	
5		Ref	Washer	
6	4460891	11	Connector 2 Position	
6	4490941	22	Terminal	
7	1001262745	4	Connector 8 Position	
7	1001104519	24	Terminal	
8	8220904	4	Connector 8 Position	
8	1001104519	24	Terminal	
9	4460374	3	Relay	
9	1001116733	13	Terminal	
9	1001128128	2	Plug, Terminal	
10	1001262746	1	Connector 6 Position	
10	1001262747	6	Terminal	
11	1001176333	1	Connector 18 Position	
11	4460465	6	Terminal	
11	4460466	12	Plug, Terminal	
12	1001215898	1	Cap, Dust	
13	1001117081	2	Connector 10 Position	
13	1001104519	16	Terminal	
14	1001117119	1	Connector 2 Position	
14	1001104519	2	Terminal	
15		Ref	Terminal, Connector	

FIGURE 7-61. MULTIPLEX CONTROL HARNESS - (RH)

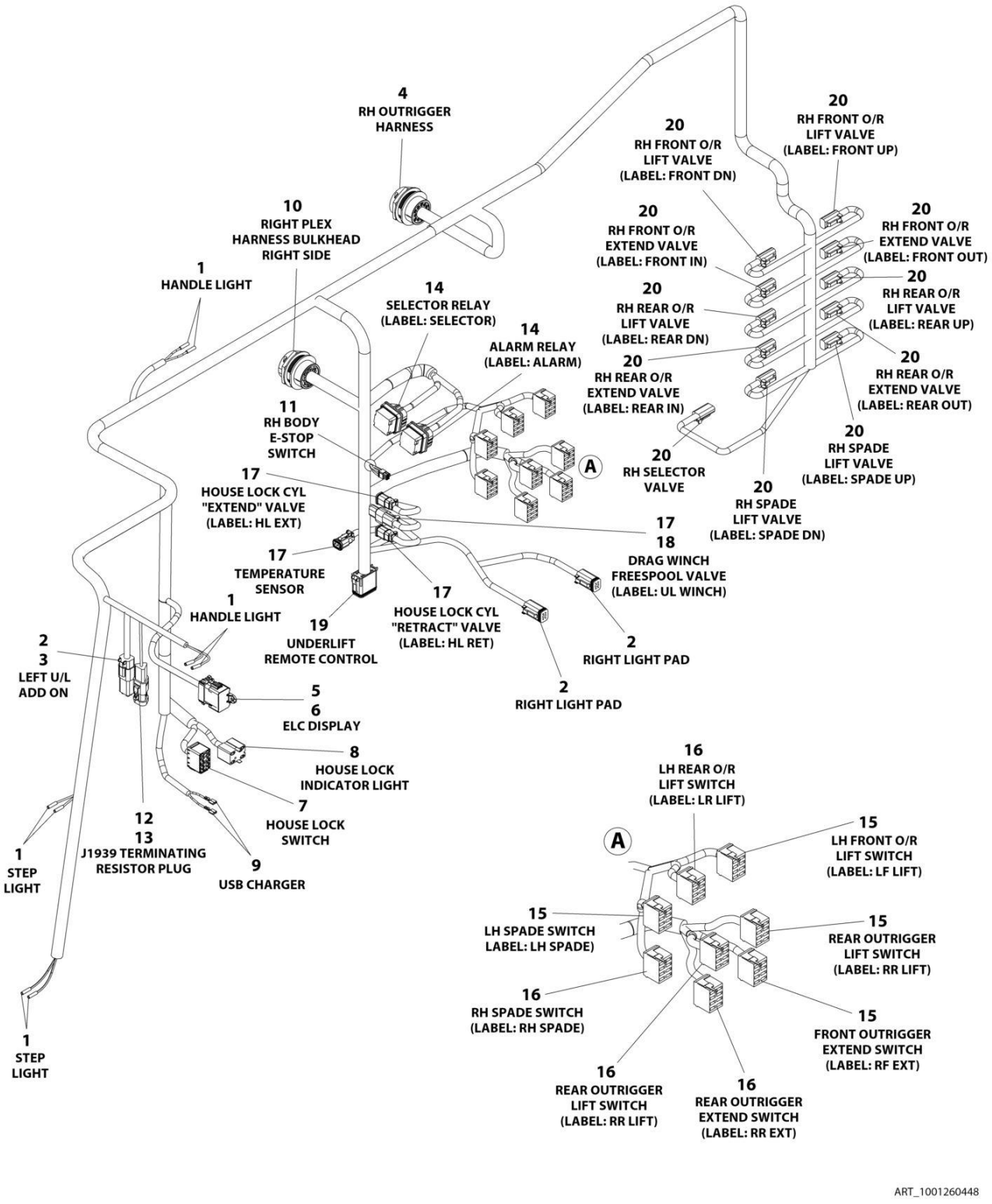
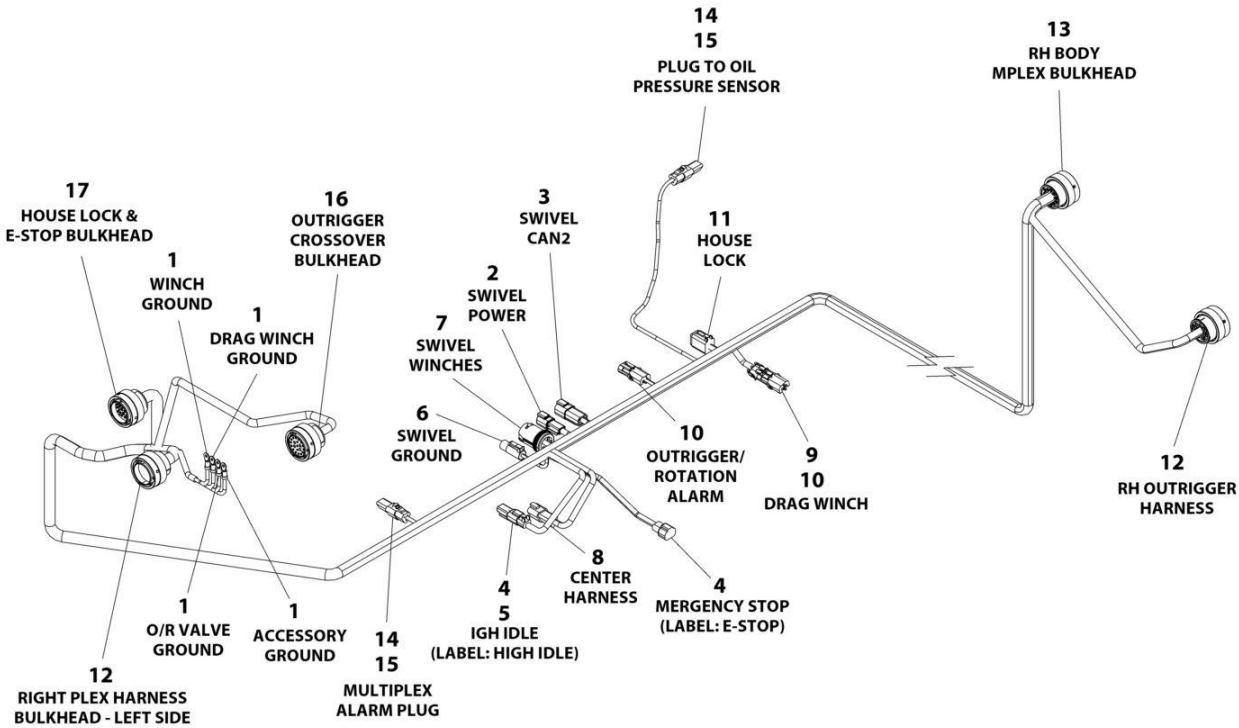


FIGURE 7-61. MULTIPLEX CONTROL HARNESS - (RH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001260448	Ref	MULTIPLEX CONTROL (RH) - HARNESS	D
1		Ref	Terminal	
2	4460884	3	Connector 4 Position	
2	4460465	12	Terminal	
3	4460932	1	Connector 4 Position	
3	4460466	4	Plug, Terminal	
4	1001263577	1	Connector 29 Position	
4	4460509	17	Terminal	
4	4460465	5	Terminal	
4	4460466	7	Plug, Terminal	
4		Ref	Gasket	
4		Ref	Nut	
4		Ref	Washer	
5	1001176333	1	Connector 18 Position	
5	4460465	6	Terminal	
5	4460466	12	Plug, Terminal	
6	1001215898	1	Cap, Dust	
7	1001117081	1	Connector 10 Position	
7	1001104519	8	Terminal	
8	1001117119	1	Connector 2 Position	
8	1001104519	2	Terminal	
9		Ref	Terminal, Connector	
10	1001116920	1	Connector 31 Position	
10	4490941	2	Terminal	
10	4460464	24	Terminal	
10	4460466	5	Plug, Terminal	
10		Ref	Gasket	
10		Ref	Nut	
10		Ref	Washer	
11	1001262746	1	Connector 6 Position	
11	1001262747	6	Terminal	
12	1001116812	1	Connector 3 Position	
12	4460465	2	Terminal	
12	4460466	1	Plug, Terminal	
13	1001116815	1	Connector 3 Position	
14	4460374	2	Relay	
14	1001116733	8	Terminal	
14	1001128128	2	Plug, Terminal	
15	1001262745	4	Connector 8 Position	
15	1001104519	24	Terminal	
16	8220904	4	Connector 8 Position	
16	1001104519	24	Terminal	
17	1001208632	4	Connector 2 Position	
18	4461273	1	Connector 2 Position	
19	4460933	1	Connector 10 Position	
19	4460465	10	Terminal	
19	4460466	2	Plug, Terminal	
20	4460891	11	Connector 2 Position	
20	4490942	22	Terminal	

FIGURE 7-62. MULTIPLEX CROSSOVER HARNESS



ART_1001260449

FIGURE 7-62. MULTIPLEX CROSSOVER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001260449	Ref	MULTIPLEX CROSSOVER HARNESS	B
1		Ref	Terminal, Ring	
2	4461017	1	Connector 2 Position	
2	4460508	1	Terminal	
2	4460466	1	Plug, Terminal	
3	4461214	1	Connector 4 Position	
4	4460897	2	Connector 2 Position	
4	4460464	4	Terminal	
5	4460891	1	Connector 2 Position	
5	4460466	2	Plug, Terminal	
6	1001116932	1	Connector 1 Position	
7	1001263565	1	Connector 6 Position	
7	4460464	6	Terminal	
8	4460932	1	Connector 4 Position	
8	4460464	4	Terminal	
9	4460742	1	Connector 2 Position	
9	4460457	2	Terminal	
10	4461157	2	Connector 2 Position	
10	4460475	2	Terminal	
10	1001116727	2	Plug, Terminal	
11	4460894	1	Connector 6 Position	
11	4460465	4	Terminal	
11	4490942	1	Terminal	
11	4460466	1	Plug, Terminal	
12	1001263483	2	Connector 29 Position	
12	4460509	18	Terminal	
12	4460465	25	Terminal	
12	4460466	15	Plug, Terminal	
13	1001116921	1	Connector 31 Position	
13	4490942	2	Terminal	
13	4460465	24	Terminal	
13	4460466	5	Plug, Terminal	
14	4460539	2	Connector 3 Position	
14	4460465	6	Terminal	
15	4460536	2	Connector 3 Position	
15	4460466	6	Plug, Terminal	
16	1001263539	1	Connector 21 Position	
16	4460508	18	Terminal	
16	4460464	1	Terminal	
16	4460466	2	Plug, Terminal	
17	1001263542	1	Connector 29 Position	
17	4460464	23	Terminal	
17	4460466	6	Plug, Terminal	

FIGURE 7-63. MULTIPLEX PDP TO CROSSOVER (LH) HARNESS

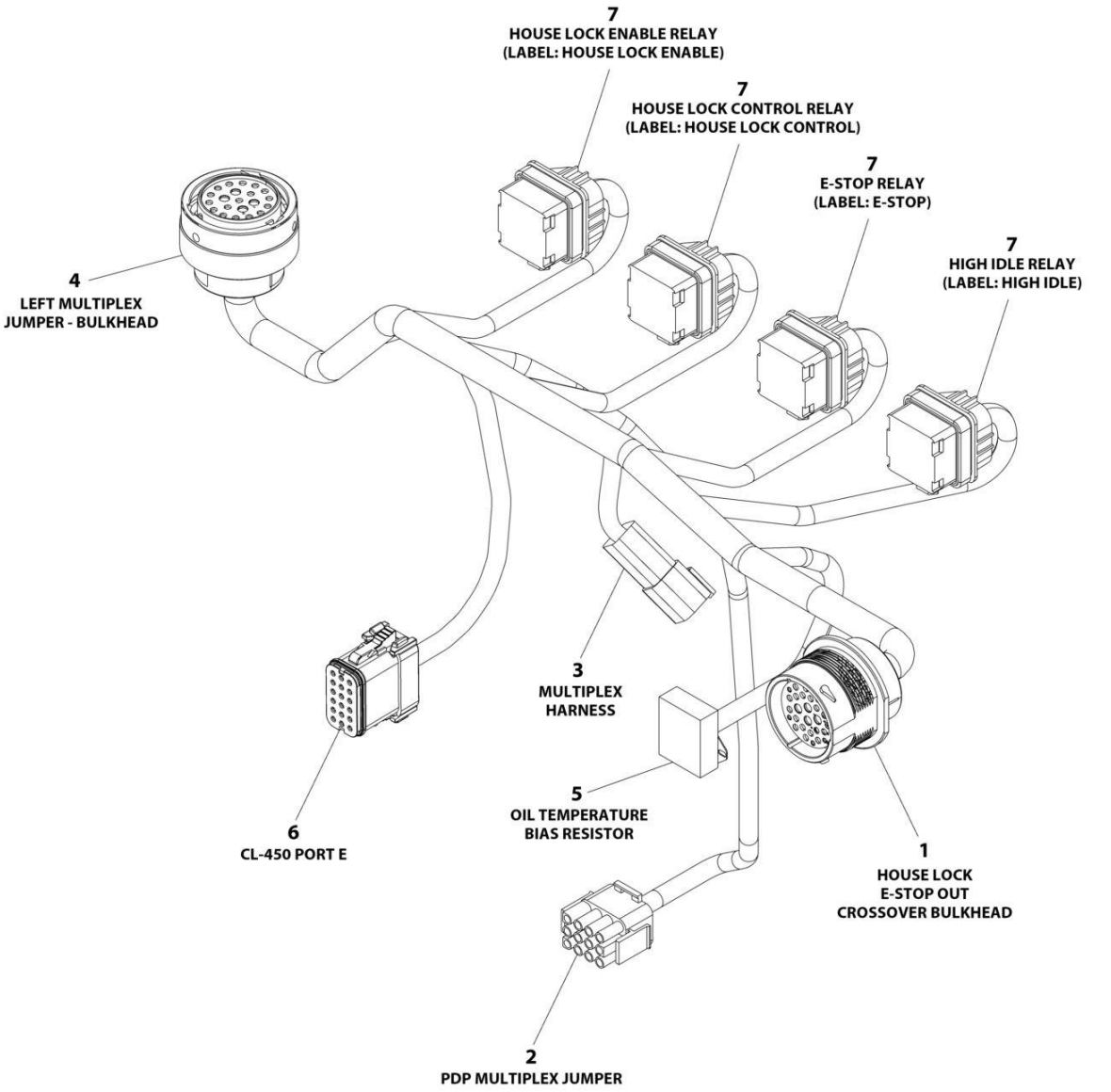


FIGURE 7-63. MULTIPLEX PDP TO CROSSOVER (LH) HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001260450	Ref	MULTIPLEX PDP TO CROSSOVER (LH) HARNESS	C
1	1001263577	1	Connector 29 Position	
1	4460465	24	Terminal	
1	4460466	5	Plug, Terminal	
1		Ref	Gasket	
1		Ref	Nut	
1		Ref	Washer	
2	4460265	1	Connector 9 Position	
2	4460267	5	Terminal	
2	4460226	2	Terminal	
3	4460899	1	Connector 6 Position	
3	4490941	1	Terminal	
3	4460464	3	Terminal	
3	4460466	2	Plug, Terminal	
4	1001263754	1	Connector 21 Position	
4	4460509	2	Terminal	
4	4460465	16	Terminal	
4	4460466	3	Plug, Terminal	
5		Ref	Connector	
5		Ref	Resistor (5.1K OHM - 1/4 WATT)	
6	1001262023	1	Connector 18 Position	
6	4460465	4	Terminal	
6	4460466	14	Plug, Terminal	
7	1001118282	4	Connector 5 Position	
7	1001116733	18	Terminal	
7	1001128128	2	Plug, Terminal	

FIGURE 7-64. MULTIPLEX HARNES - MULTIPLEX TO PDP

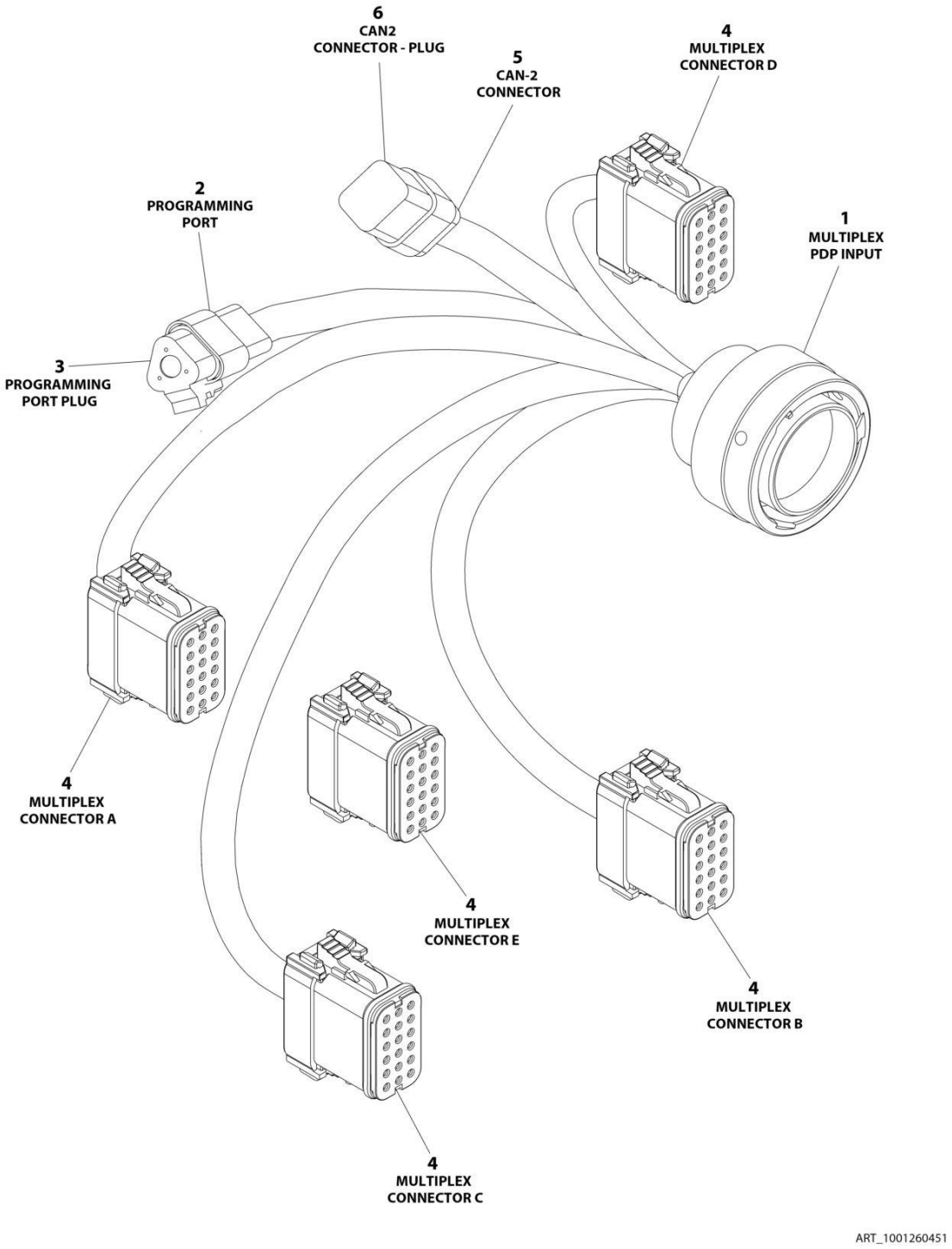


FIGURE 7-64. MULTIPLEX HARNES - MULTIPLEX TO PDP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001260451	Ref	MULTIPLEX HARNESS - MULTIPLEX TO PDP	A
1	1001262043	1	Connector - 47 Position	
1	4460465	29	Socket, Female	
1	NPN	15	Socket, Female	
1	4460466	3	Plug, Terminal	
2	4460536	1	Connector - 3 Position	
2	4460464	2	Pin, Male	
2	4460466	1	Plug, Terminal	
3	4460539	1	Plug, Male - 3 Position	
3	4460466	3	Plug, Terminal	
4	NPN	4	Connector - 18 Position	
4	4460465	30	Socket, Female	
4	NPN	17	Socket, Female	
4	4460466	43	Plug, Terminal	
5	4460894	1	Plug, Male - 6 Position	
5	4460465	3	Socket, Female	
5	NPN	2	Socket, Female	
5	4460466	1	Plug, Terminal	
6	4460899	1	Receptacle, Female - 6 Position	
6	4460466	6	Plug, Terminal	

FIGURE 7-65. PYLON ROTATOR HARNESS

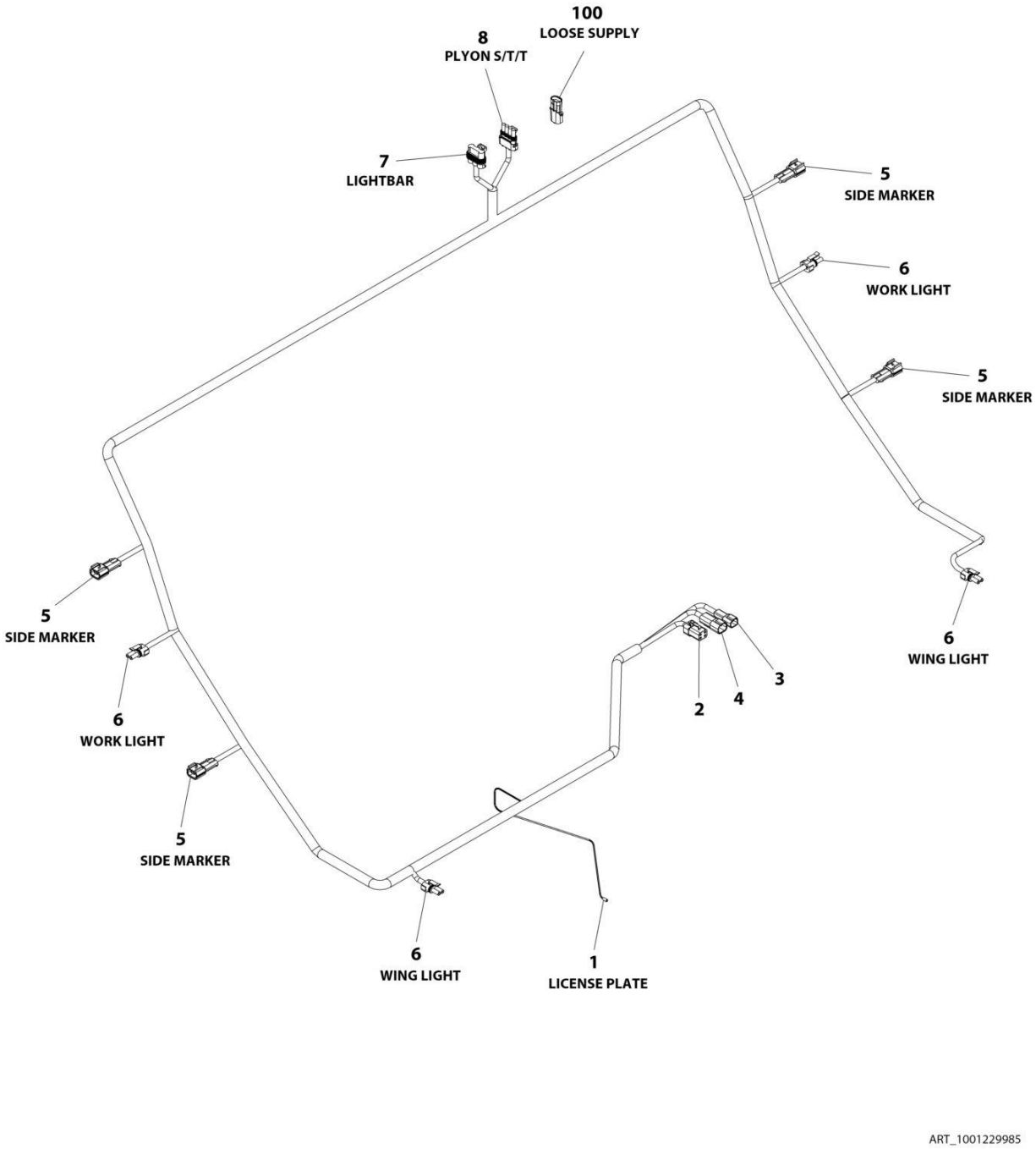
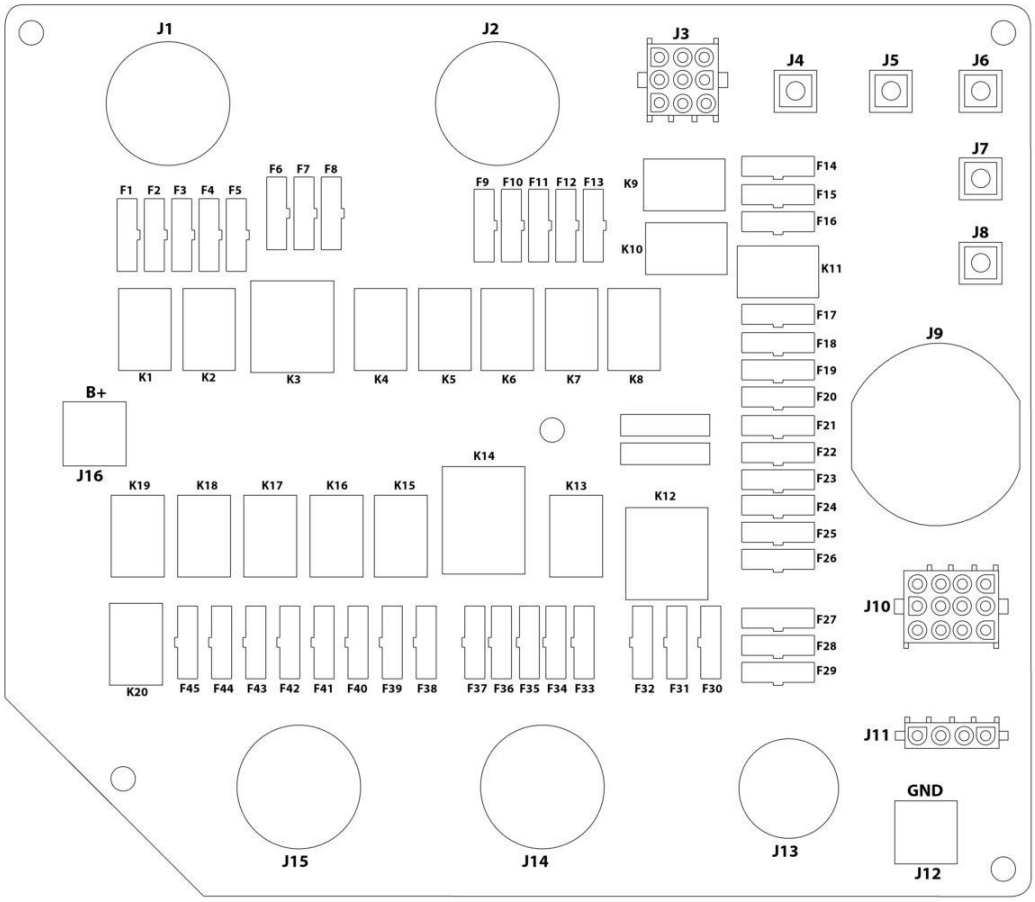


FIGURE 7-65. PYLON ROTATOR HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229985	Ref	PYLON ROTATOR HARNESS	C
1		Ref	Terminal	
2	1001116810	1	Connector 4 Position	
2	4460509	4	Terminal	
3	4461017	1	Connector 2 Position	
3	1001150610	1	Terminal	
3	4460508	1	Terminal	
4	1001116811	1	Connector 4 Position	
4	4460508	4	Terminal	
5	1001117026	4	Connector 2 Position	
5	1001116745	8	Terminal	
6	4460742	4	Connector 2 Position	
6	4460457	8	Terminal	
7	8220935	1	Connector 3 Position	
7	8220099	3	Terminal	
8	4460460	1	Connector 4 Position	
8	4460457	4	Terminal	
100	4461157	1	Connector 2 Position	
100	1001116727	2	Plug, Terminal	

FIGURE 7-66. POWER PCB ASSEMBLY



ART_1001203234

FIGURE 7-66. POWER PCB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001203234	Ref	POWER PCB ASSEMBLY	F
	See Note	NSS	No Service Parts Available at Time of Printing	

FIGURE 7-67. REAR TUNNEL HARNESS

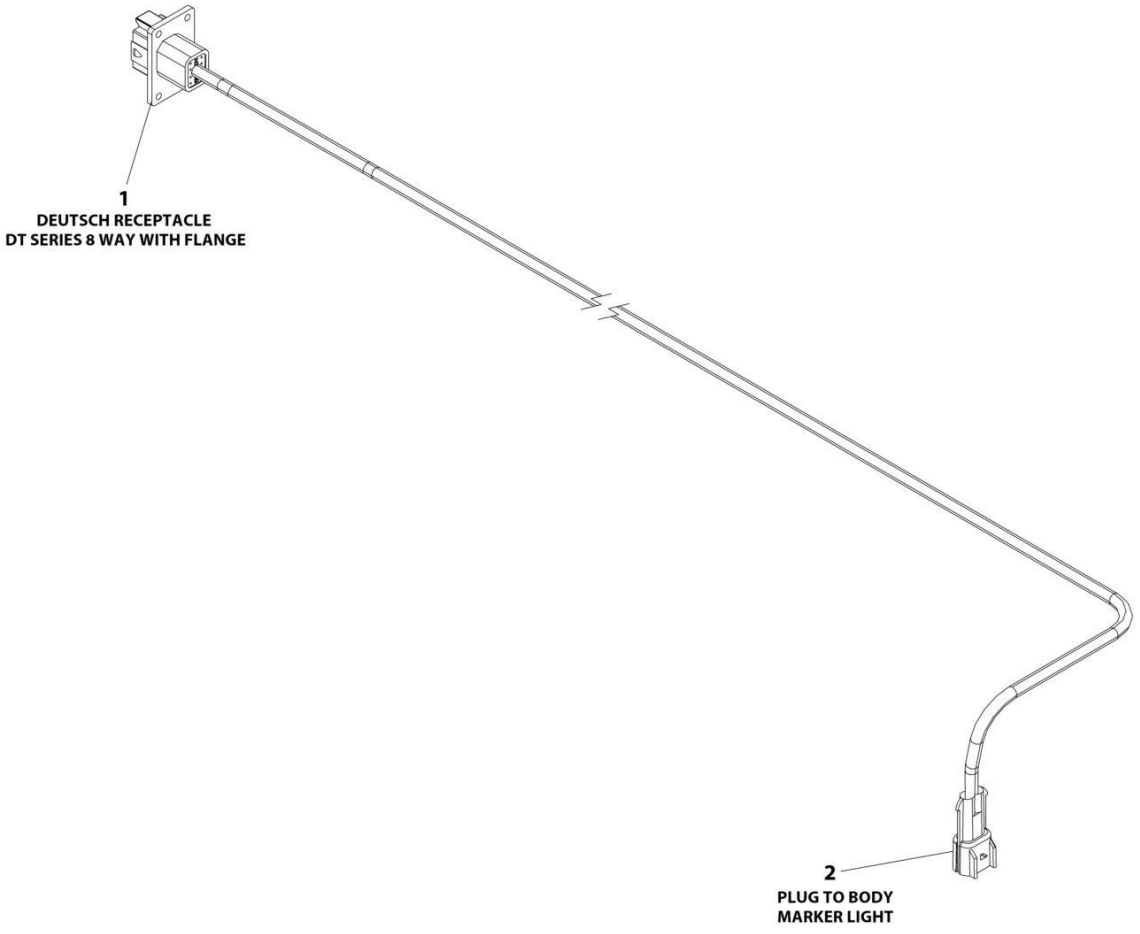


FIGURE 7-67. REAR TUNNEL HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229447	Ref	REAR TUNNEL HARNESS	A
1	1001269275	1	Connector	
1	91503106	1	Wedge, Locking	
1	4460464	2	Pin	
1	4460466	4	Plug	
1	NPN	1	Gasket	
2	1001117026	1	Connector	
2	1001116745	2	Socket	
2	4460458	2	Seal	

FIGURE 7-68. REAR BODY HARNESS - LH

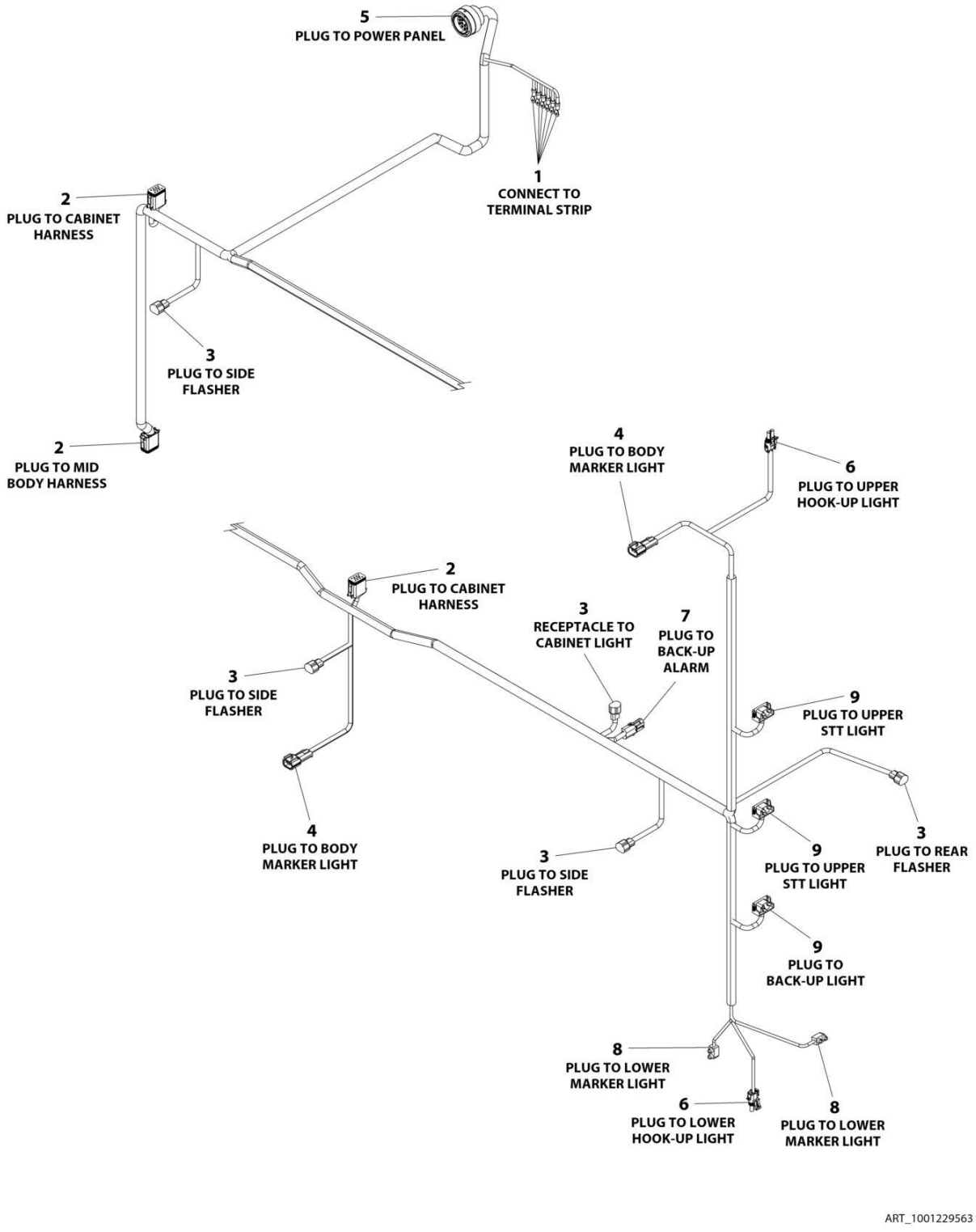


FIGURE 7-68. REAR BODY HARNESS - LH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229563	Ref	REAR BODY HARNESS - LH	C
1		Ref	Terminal, Ring	
2	4460930	3	Connector 8 Position	
2	4460465	10	Terminal	
2	4490942	8	Terminal	
2	4460466	6	Plug, Terminal	
3	4460897	5	Connector 2 Position	
3	4490941	5	Terminal	
3	4460466	5	Plug, Terminal	
4	1001117026	2	Connector 2 Position	
4	1001116745	4	Terminal	
5	4461291	1	Connector 16 Position	
5	4460509	12	Terminal	
5	4460466	9	Plug, Terminal	
6	4460742	2	Connector 2 Position	
6	4460457	4	Terminal	
7	4461157	1	Connector 2 Position	
7	4460475	2	Terminal	
8		Ref	Connector	
9		Ref	Connector	

FIGURE 7-69. REAR BODY HARNESS - RH

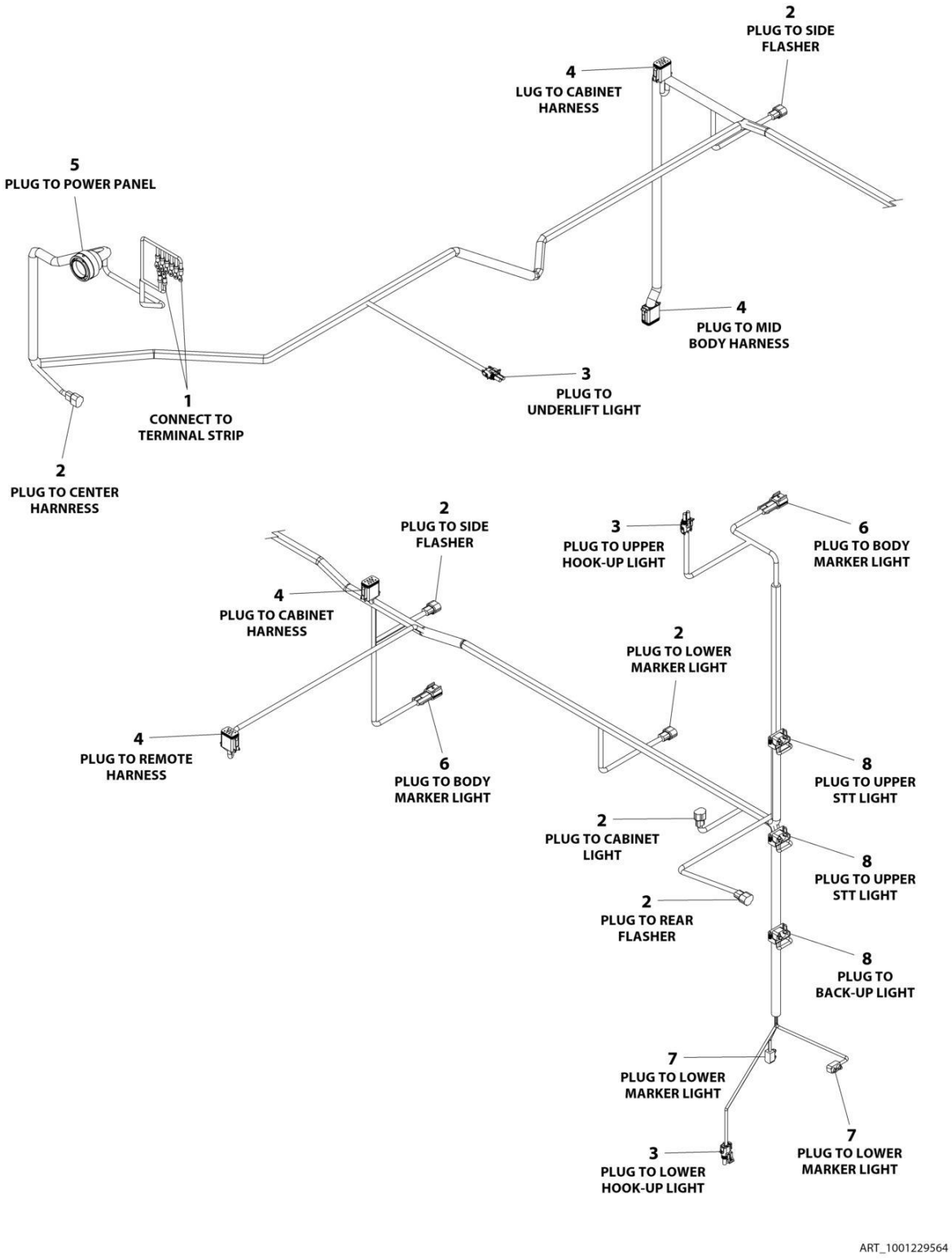


FIGURE 7-69. REAR BODY HARNESS - RH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229564	Ref	REAR BODY HARNESS - RH	C
1		Ref	Terminal, Ring	
2	4460897	6	Connector 2 Position	
2	4490941	6	Terminal	
2	4460466	6	Plug, Terminal	
3	4460742	3	Connector 2 Position	
3	4460457	6	Terminal	
4	4460930	4	Connector 8 Position	
4	4460465	10	Terminal	
4	4490942	11	Terminal	
4	4460466	11	Plug, Terminal	
5	1001263754	1	Connector 21 Position	
5	4460509	12	Terminal	
5	4460466	9	Plug, Terminal	
6	1001117026	2	Connector 2 Position	
6	1001116745	4	Terminal	
7		Ref	Connector	
8		Ref	Connector	

FIGURE 7-70. TOW LIGHT HARNESS

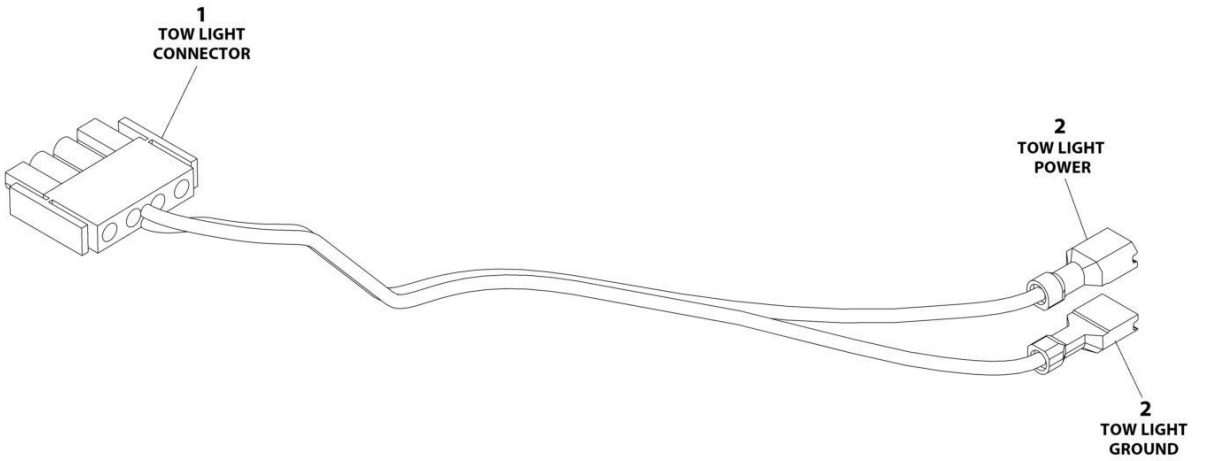


FIGURE 7-70. TOW LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209031	Ref	TOW LIGHT HARNESS	C
1	4460321	1	Connector	
1	4460268	2	Socket	
2	NPN	2	Connector	

FIGURE 7-71. TRAILER PLUG INSTALLATION - 7WAY

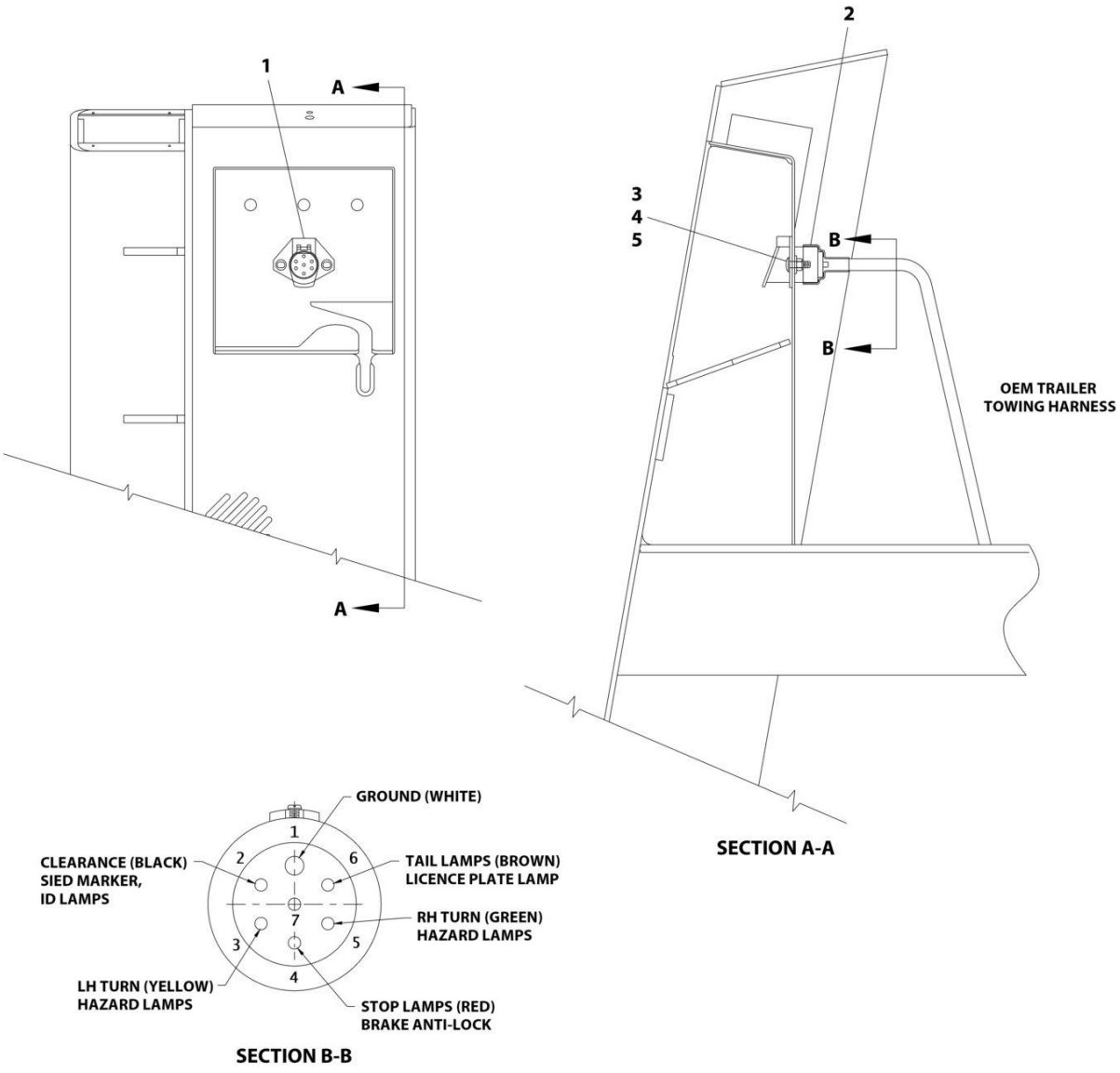


FIGURE 7-71. TRAILER PLUG INSTALLATION - 7WAY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2502330145	Ref	7 - Way Trailer Plug Installation	C
1	7346000055	1	7-Way Plug	
2	7346000078	1	7-Way Plug Boot	
3	7115151050	2	Capscrew 5/16 x 1-1/4	
4	7950150161	4	Washer 5/16	
5	7660152601	2	Nut 5/16	

FIGURE 7-72. TUNNEL HARNESS - MAIN (TALL TUNNEL)

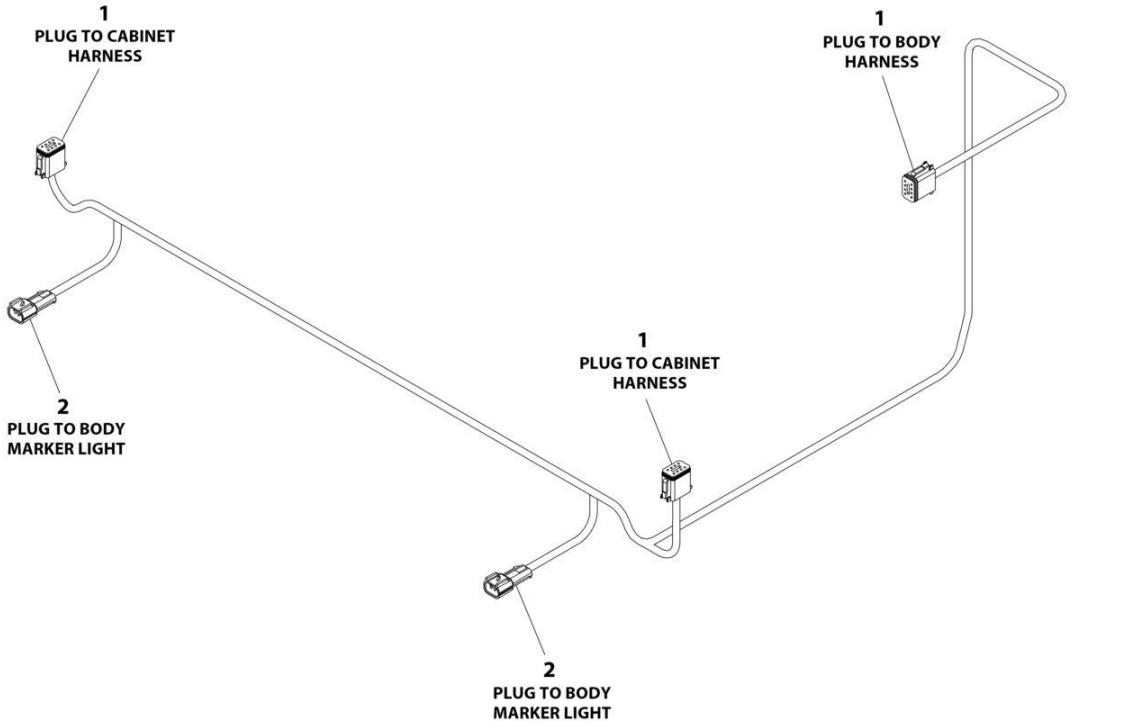


FIGURE 7-72. TUNNEL HARNESS - MAIN (TALL TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229452	Ref	TUNNEL HARNESS - MAIN	A
1	4460930	3	Connector 8 Position	
1	4460465	12	Terminal	
1	4460466	12	Plug, Terminal	
2	1001177650	2	Connector 2 Position	
2	1001116745	2	Terminal	
2	4460458	2	Seal	

FIGURE 7-73. TUNNEL HARNESS - MAIN (SHORT TUNNEL)

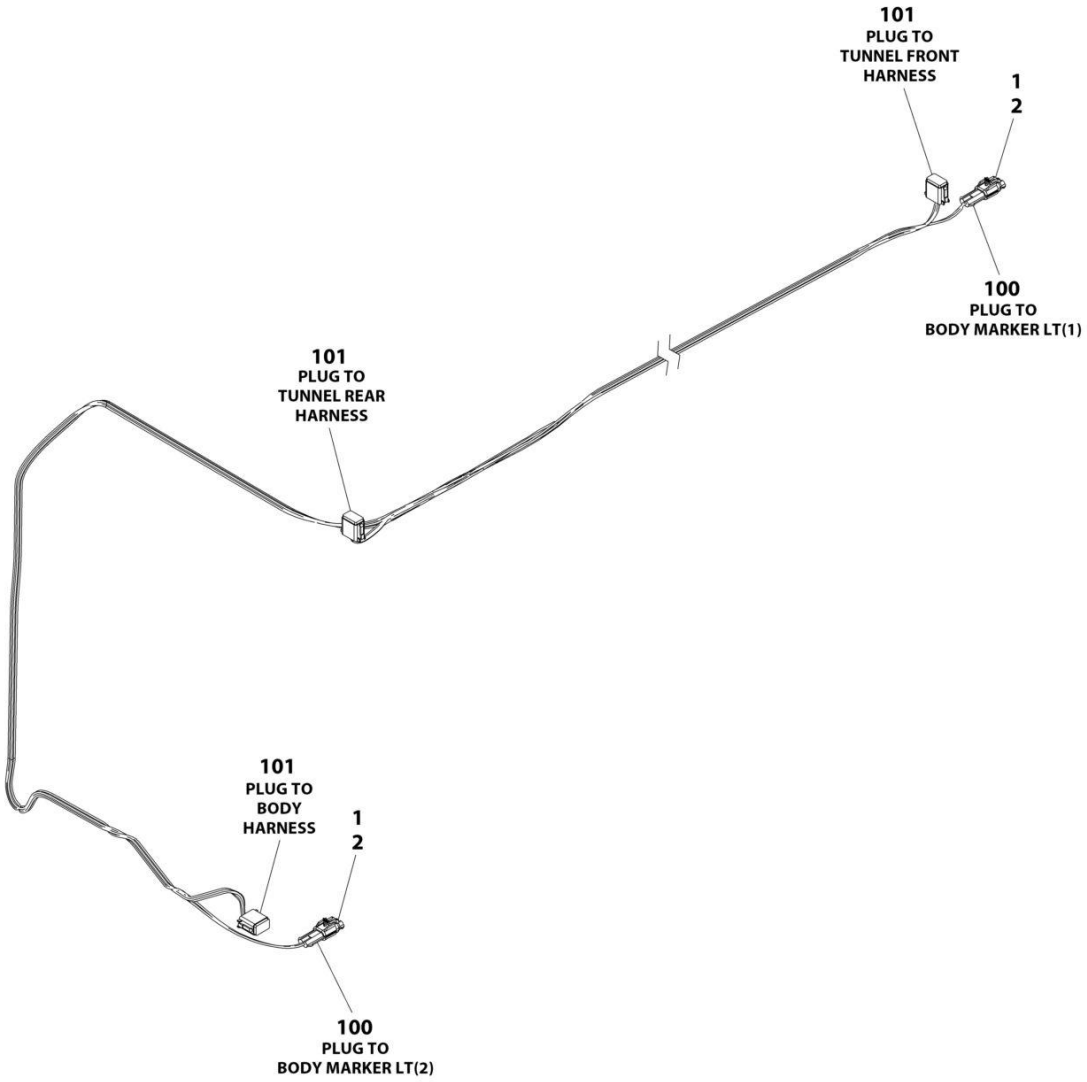


FIGURE 7-73. TUNNEL HARNESS - MAIN (SHORT TUNNEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001294087	Ref	TUNNEL HARNESS - MAIN	A
1	1001116727	4	Plug, Terminal	
2	1001117021	2	Connector	
100	1001117026	2	Connector	
100	1001116745	6	Terminal	
100	4460458	2	Seal	
101	4460930	3	Connector	
101	4460465	18	Terminal	
101	4460466	6	Plug, Terminal	

FIGURE 7-74. TUNNEL HARNESS - MAIN (56IN)

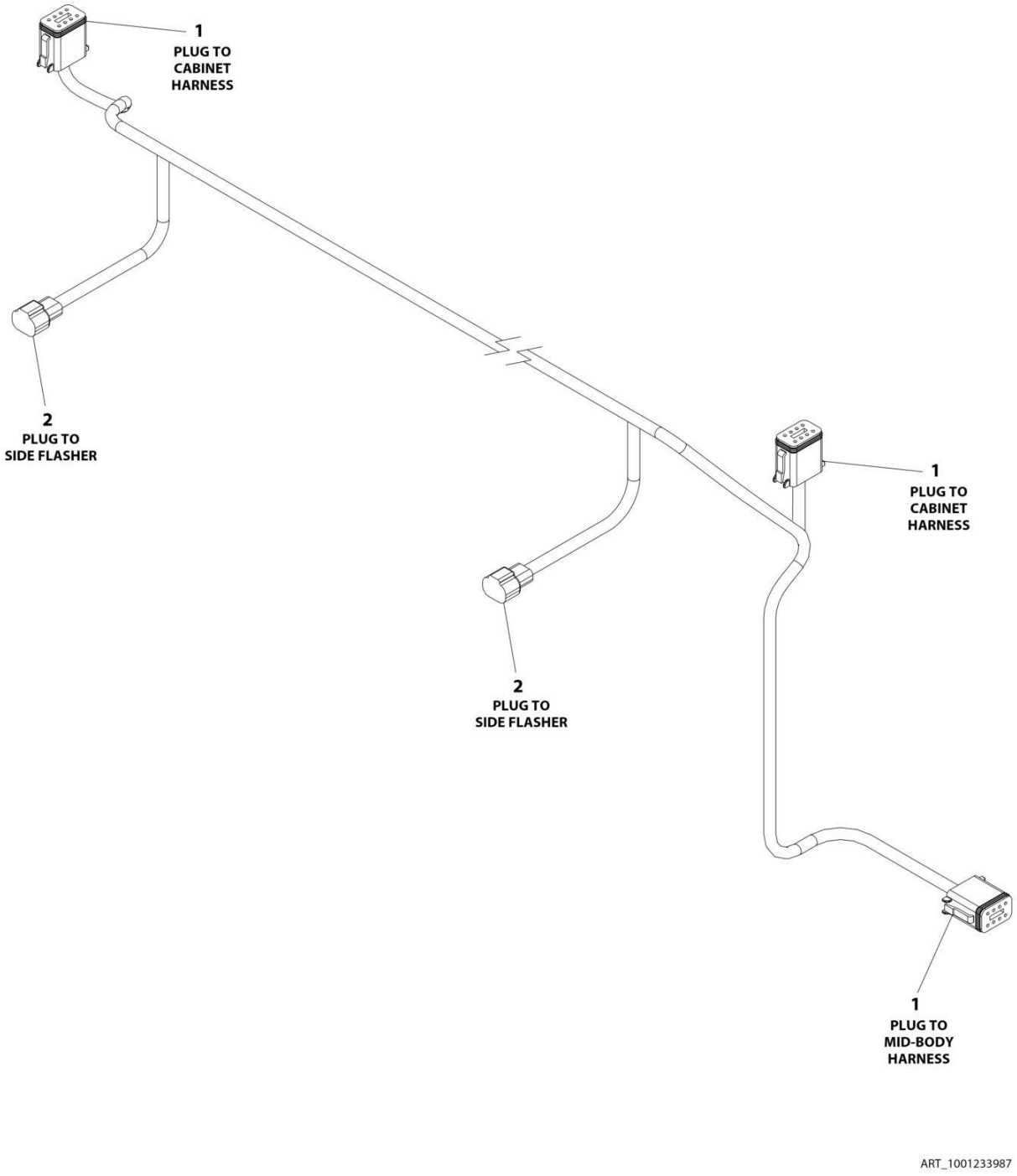


FIGURE 7-74. TUNNEL HARNESS - MAIN (56IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233987	Ref	MAIN TUNNEL HARNESS	A
1	4460930	3	Connector 8 Position	
1	4460465	14	Terminal	
1	4460466	10	Plug, Terminal	
2	4460897	2	Connector 2 Position	
2	4460464	4	Terminal	

FIGURE 7-75. TUNNEL HARNESS - REAR

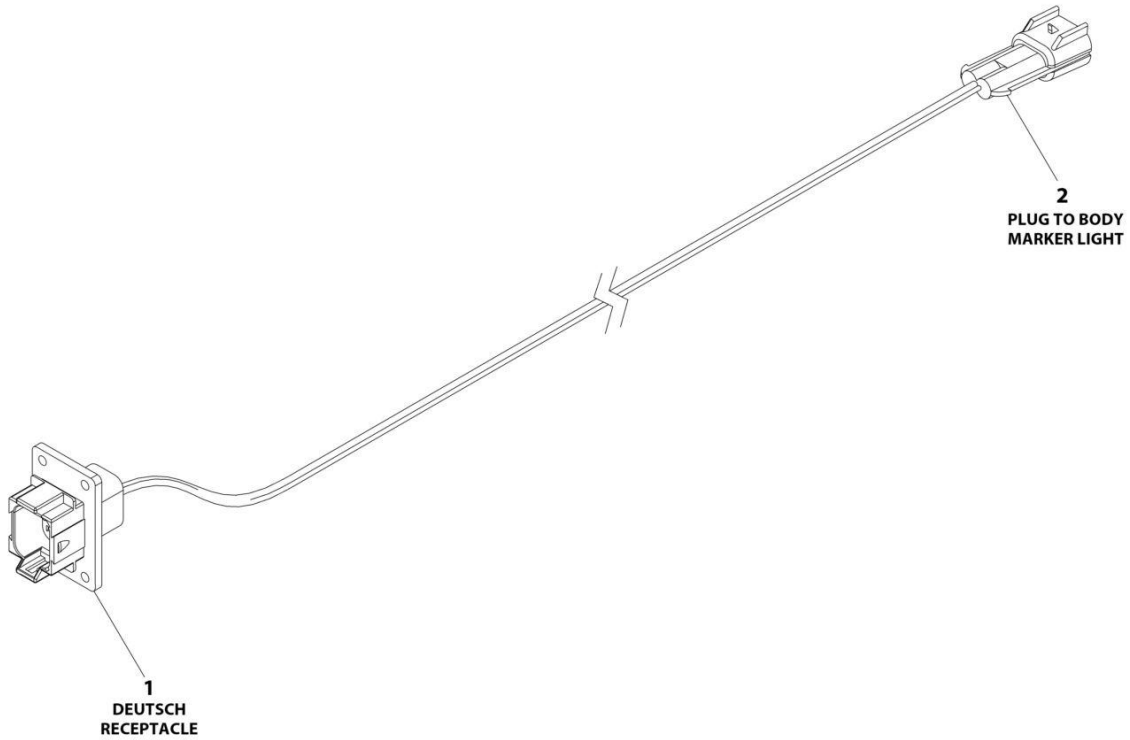


FIGURE 7-75. TUNNEL HARNESS - REAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001230142	Ref	TUNNEL HARNESS - REAR	A
1	1001269275	1	Connector	
1	4640464	2	Socket	
1	4640466	4	Plug, Terminal	
1	NPN	1	Gasket	
2	1001117026	1	Connector	
2	1001116745	2	Terminal	
2	4640458	2	Seal	

FIGURE 7-76. UNDERLIFT LIGHT HARNESS

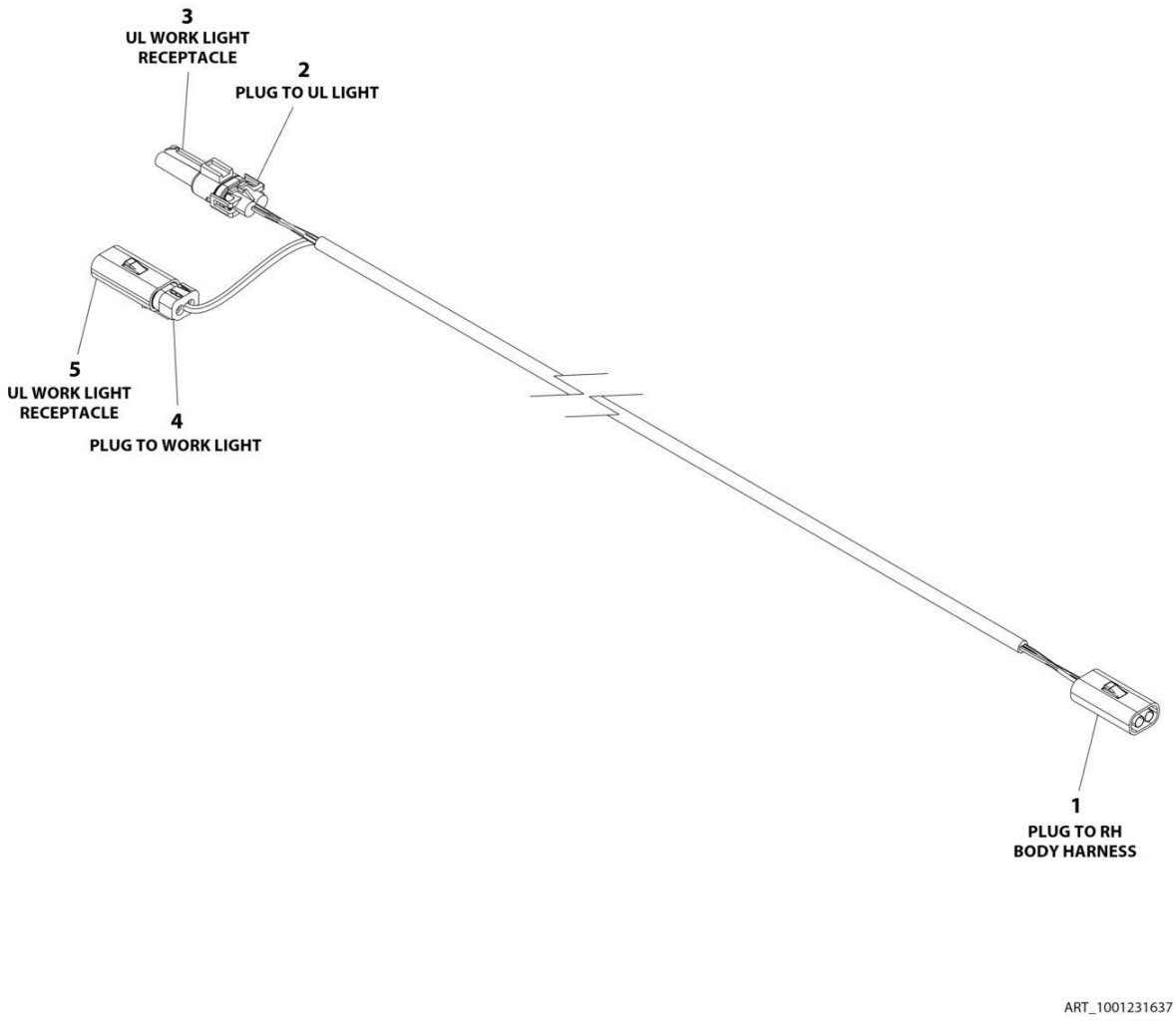


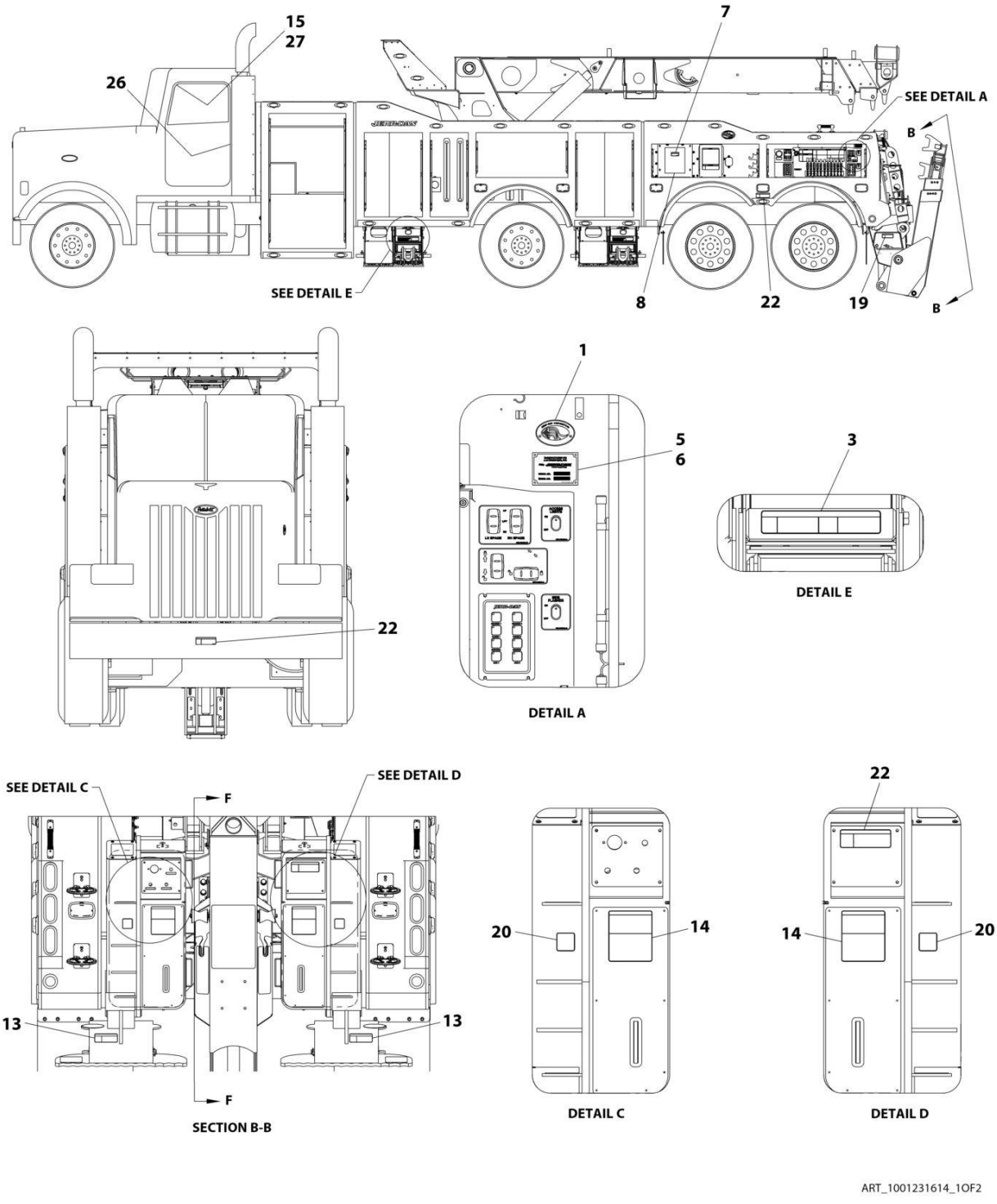
FIGURE 7-76. UNDERLIFT LIGHT HARNESS

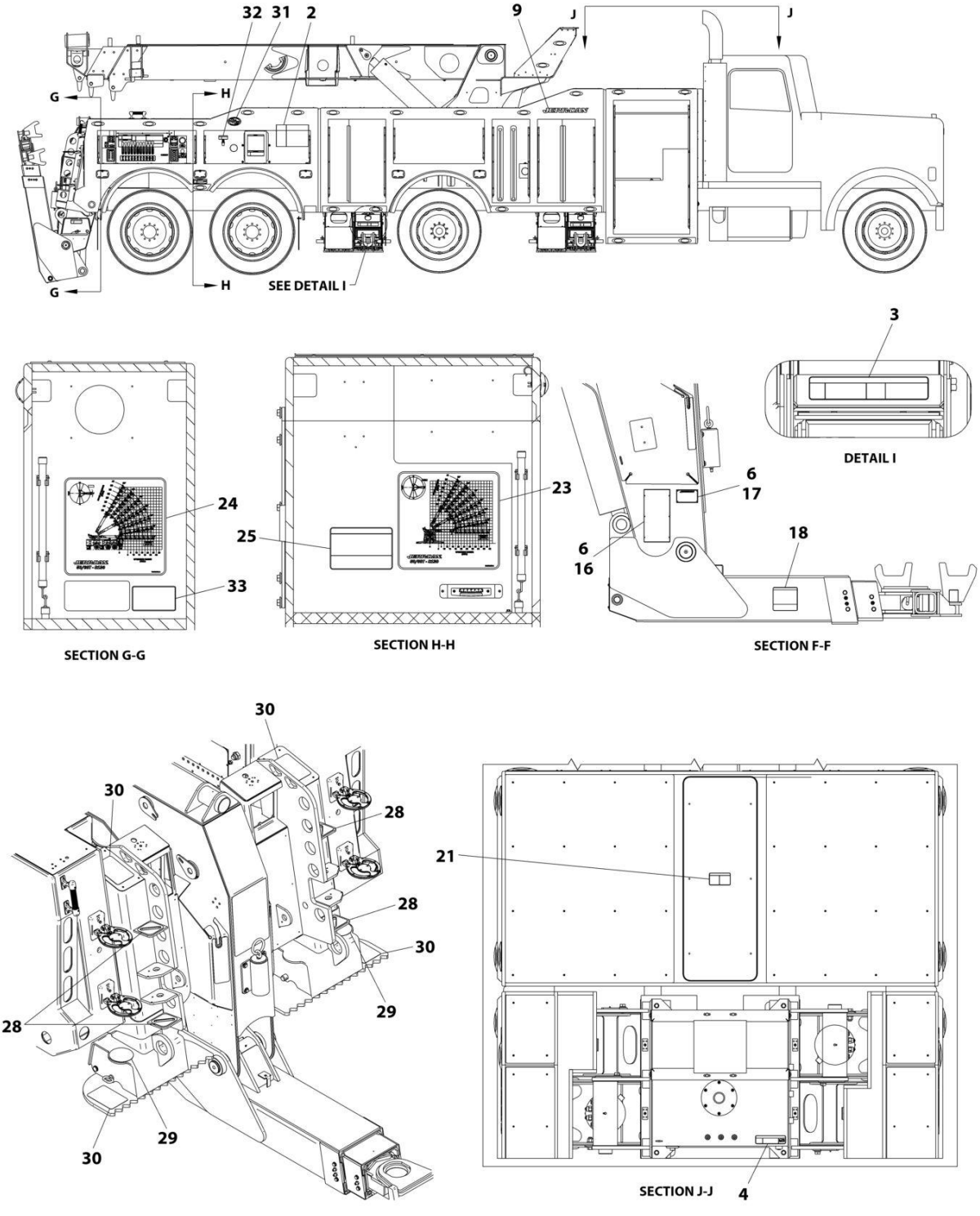
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231637	Ref	UNDERLIFT LIGHT HARNESS	B
1	4460867	1	Connector 3 Position	
1	4460458	1	Seal	
1	4460475	1	Terminal	
2	4461115	1	Connector 2 Position	
2	4460789	1	Seal	
2	4460746	1	Terminal	
3	1001133213	1	Connector 1 Position	
3	1001116727	1	Plug, Terminal	
4	4460742	1	Connector 2 Position	
4	4460457	1	Terminal	
4	4460458	1	Seal	
5	4460867	1	Connector 1 Position	
5	1001116727	1	Plug, Terminal	

SECTION 8 - DECAL

SECTION 8 - DECAL

FIGURE 8-1. DECAL INSTALLATION - COMMON




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SECTION J-J
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ART_1001231614_2OF2

SECTION 8 - DECAL

FIGURE 8-1. DECAL INSTALLATION - COMMON

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231614	Ref	DECAL INSTALLATION - S130	C
1	7330000143	1	Decal, Made in USA	
2	1001136175	1	Decal, Lube Chart	
3	1001137185	4	Decal, Outrigger/Spade Warning	
4	1001136119	1	Decal, Hydraulic Fluid	
5	1001127220	1	Decal	
6	7759000004	14	Rivet	
7	1001136075	1	Decal, High Voltage	
8	1001232660	1	Decal, Fuse Panel	
9	1001206367	2	Decal, Jerr-Dan Logo	
13	1001136094	2	Decal, Crushing Hazard	
14	1001136091	2	Decal, Towed Load Hazard	
15	1001142828	1	Decal, Fall Hazard	
16	1001132242	1	Decal	
17	1001132346	1	Patent Placard	
18	1001137169	2	Decal, Pinch Hazard	
19	1001136080	2	Decal, Recovery Stability	
20	1001142452	2	Decal, No Step	
21	1001138612	1	Decal, Battery Warning	
22	1001136103	4	Decal, Power Line Warning	
23	1001191519	2	Decal, Load Chart	
24	1001191518	2	Decal, Load Chart	
25	1001138537	2	Decal, Hook Notice	
26	7330000689	1	Decal	
27	1001141227	1	Decal, Backing Hazard	
28	1001174339	4	Decal, Spade Housing Step	
29	1001174343	2	Decal, Spade Step Circle	
30	1001174346	4	Decal, Spade Step	
31	1001206364	2	Decal, JFB Badge	
32	1001232477	1	Decal, Charging Cable	
33	1001231801	2	Decal, Warning	

FIGURE 8-2. DECAL INSTALLATION - JERR-DAN LOGO (RED)

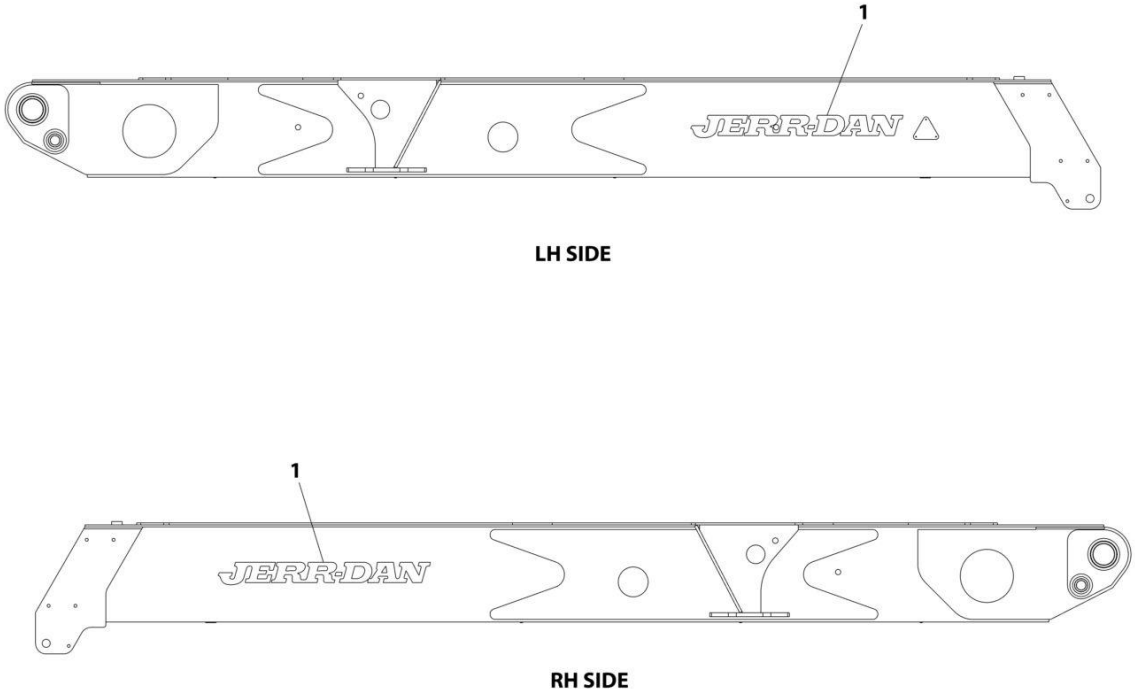


FIGURE 8-2. DECAL INSTALLATION - JERR-DAN LOGO (RED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142894	Ref	JERR-DAN RED LOGO INSTALLATION	E
1	1001234075	2	Decal, Jerr-Dan Red logo	

FIGURE 8-3. DECAL INSTALLATION - JERR-DAN LOGO (WHITE)

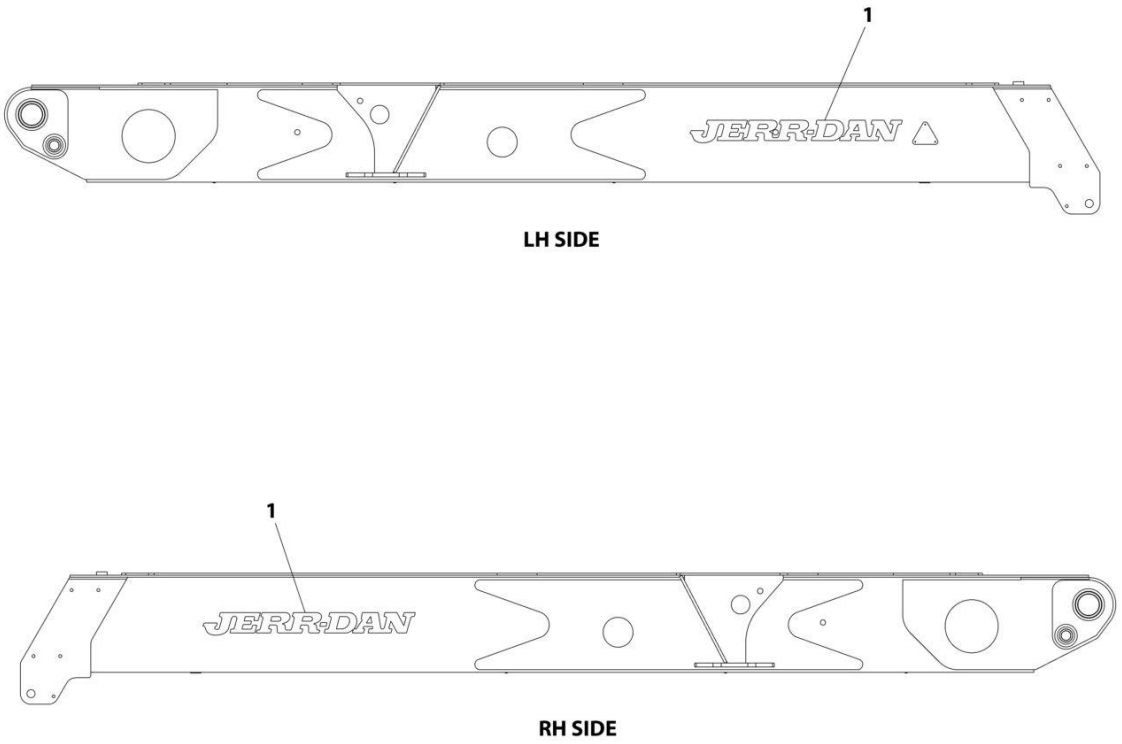
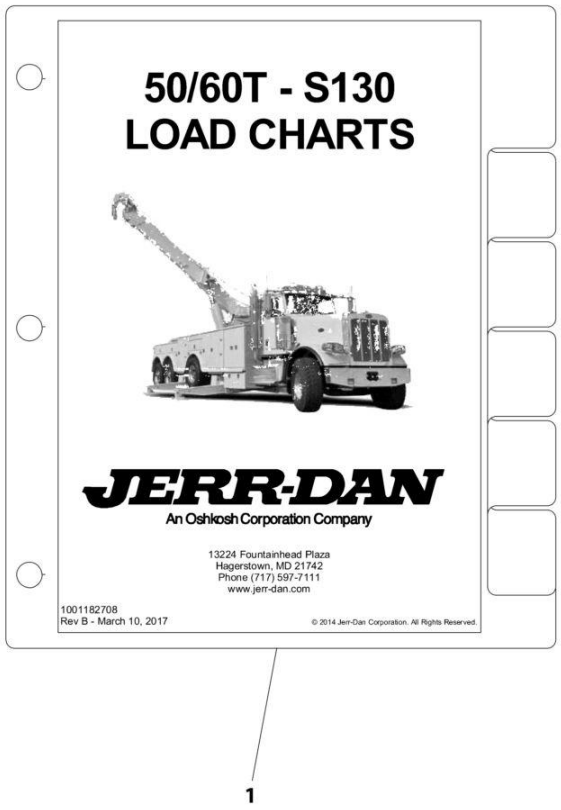


FIGURE 8-3. DECAL INSTALLATION - JERR-DAN LOGO (WHITE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001136696	Ref	JERR-DAN WHITE LOGO INSTALLATION	E
1	1001234076	2	Decal, Jerr-Dan White logo	

FIGURE 8-4. LOAD CHART ASSEMBLY



ART_1001192030

FIGURE 8-4. LOAD CHART ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001192030	1	LOAD CHART ASSEMBLY	

SECTION 9 - ACCESSORIES

SECTION 9 - ACCESSORIES

FIGURE 9-1. KITS LIST ROTATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241869	Ref	SERVICE & AFTERMARKET KITS LIST	J
		Ref	Note: Contact JERR-DAN Parts Department for exact contents of kits.:	
	1001262572	Ref	Kit, Chain Broad (Slide Out)	
	1001170845	Ref	Kit, Drawer Storage - Tool	
	1001182773	Ref	Kit, Drawer Storage - Tool	
	1001263856	Ref	Kit, Fork Riser (Frame) Storage (Single Steer)	
	1001263857	Ref	Kit, Fork Riser (Frame) Storage (5 Axle)	
	1001263858	Ref	Kit, Fork Riser (Frame) Storage (Twin Steer)	
	1001269884	Ref	Kit, Fork Velocity	
	1001297622	Ref	Kit, Scanreco Prop	
	1001263822	Ref	Kit, Shelf	
	1001251199	Ref	Kit, Spreader Bar Storage (Body)	
	1001251207	Ref	Kit, Spreader Bar Storage (Tunnel)	
	1001251215	Ref	Kit, Spreader Bar Storage (End Storage)	
	1001295192	Ref	Kit, Spreader Bar Round Sling	
	1001238159	Ref	Kit, Winch Drag Brake (50K DP Brand Winches)	
	1001297901	Ref	Kit, Valve Shim	

FIGURE 9-2. AIR, EMERGENCY AND SERVICE GLAD HANDS

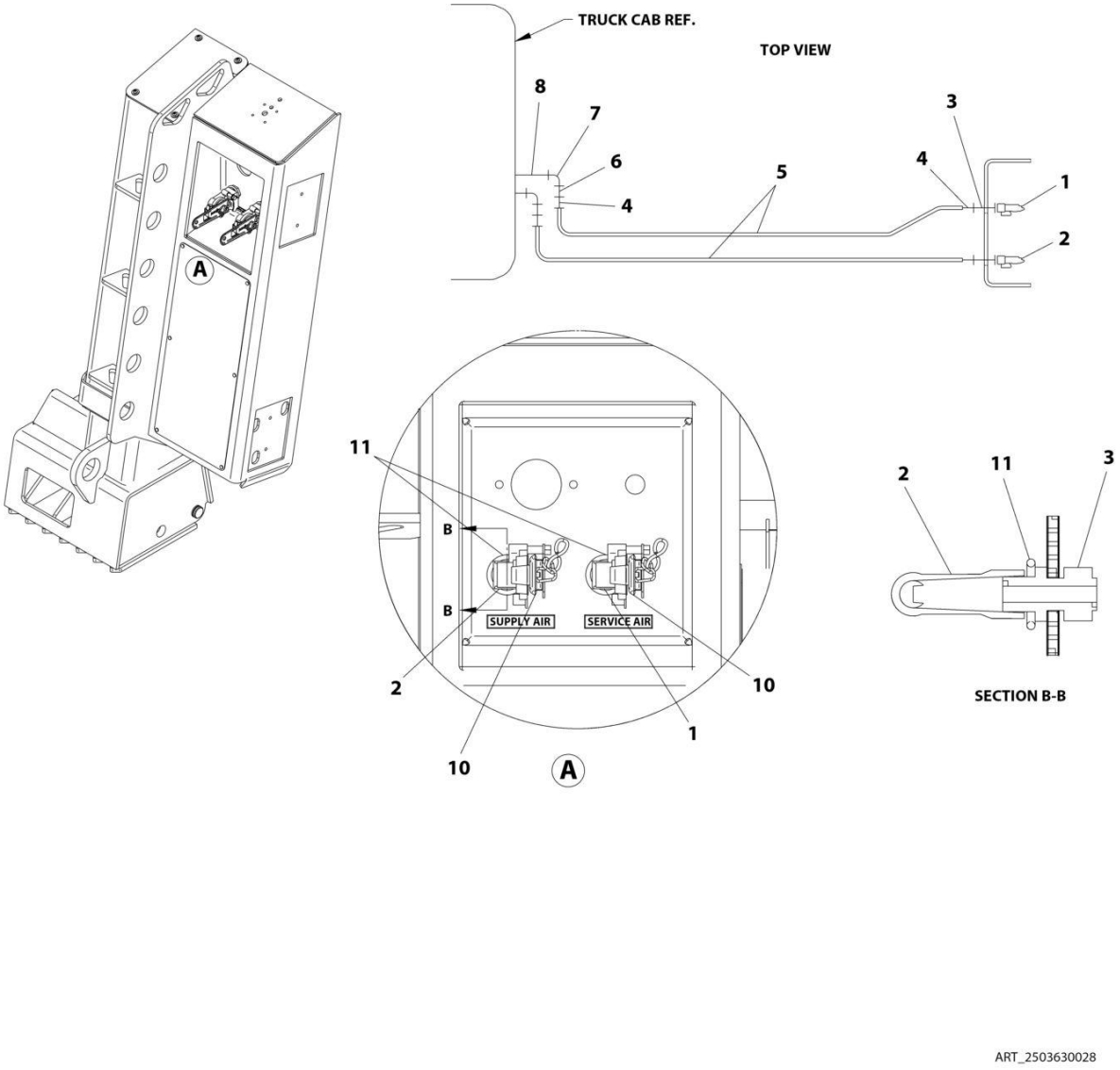


FIGURE 9-2. AIR, EMERGENCY AND SERVICE GLAD HANDS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2503630028	Ref	Air, Emergency and Service Glad Hands	F
1	7312000015	1	Gladhand	
2	7312000016	1	Gladhand	
3	7446502518	2	Fitting	
4	7446060435	4	Fitting	
5	7565000014	50 ft	Airline Tubing	
6	7443000148	2	Bushing	
7	7443000146	2	Elbow	
8	7443000145	2	Bushing	
10	1001170036	2	Shield	
11	1001171933	2	Ring	
12	7445040449	1	Nipple (Not Shown)	

FIGURE 9-3. CHAIN KIT - HEAVY DUTY LEVEL 2

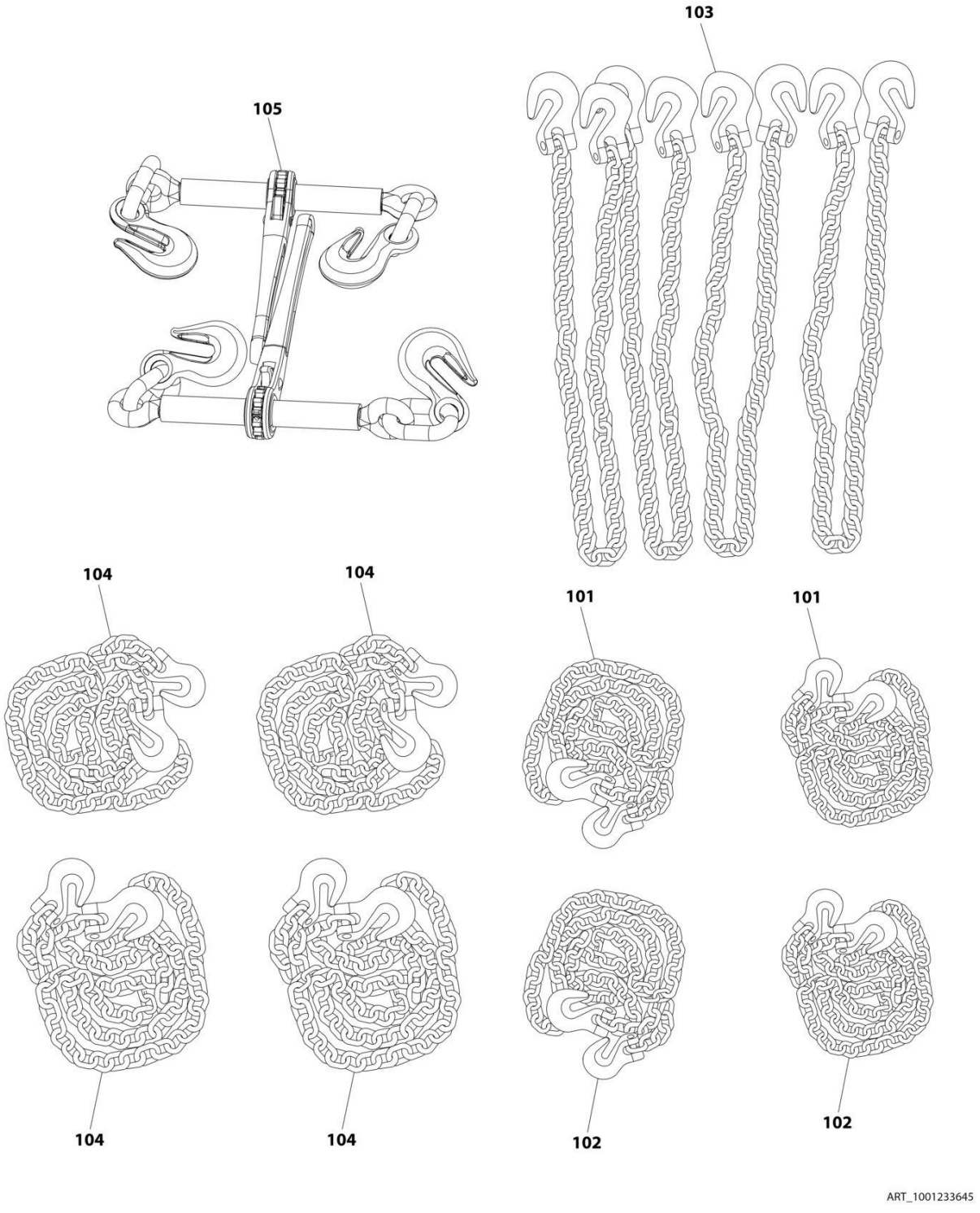


FIGURE 9-3. CHAIN KIT - HEAVY DUTY LEVEL 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233645	Ref	CHAIN KIT, LEVEL 2 (HEAVY DUTY)	A
1	1001208360	1	Chain Kit (Not Shown)	
101	Kit	2	3/8IN Chain, 10FT (non cradle grab), GR. 70	
102	Kit	2	3/8IN Chain, 20FT (non cradle grab), GR. 70	
103	Kit	4	3/8IN Chain, 10FT (non cradle grab), GR. 100	
104	Kit	4	1/2IN Chain, 10FT (non cradle grab), GR. 100	
105	Kit	2	Ratcheting Chain Binders	

FIGURE 9-4. FIFTH WHEEL TOW ATTACHMENT

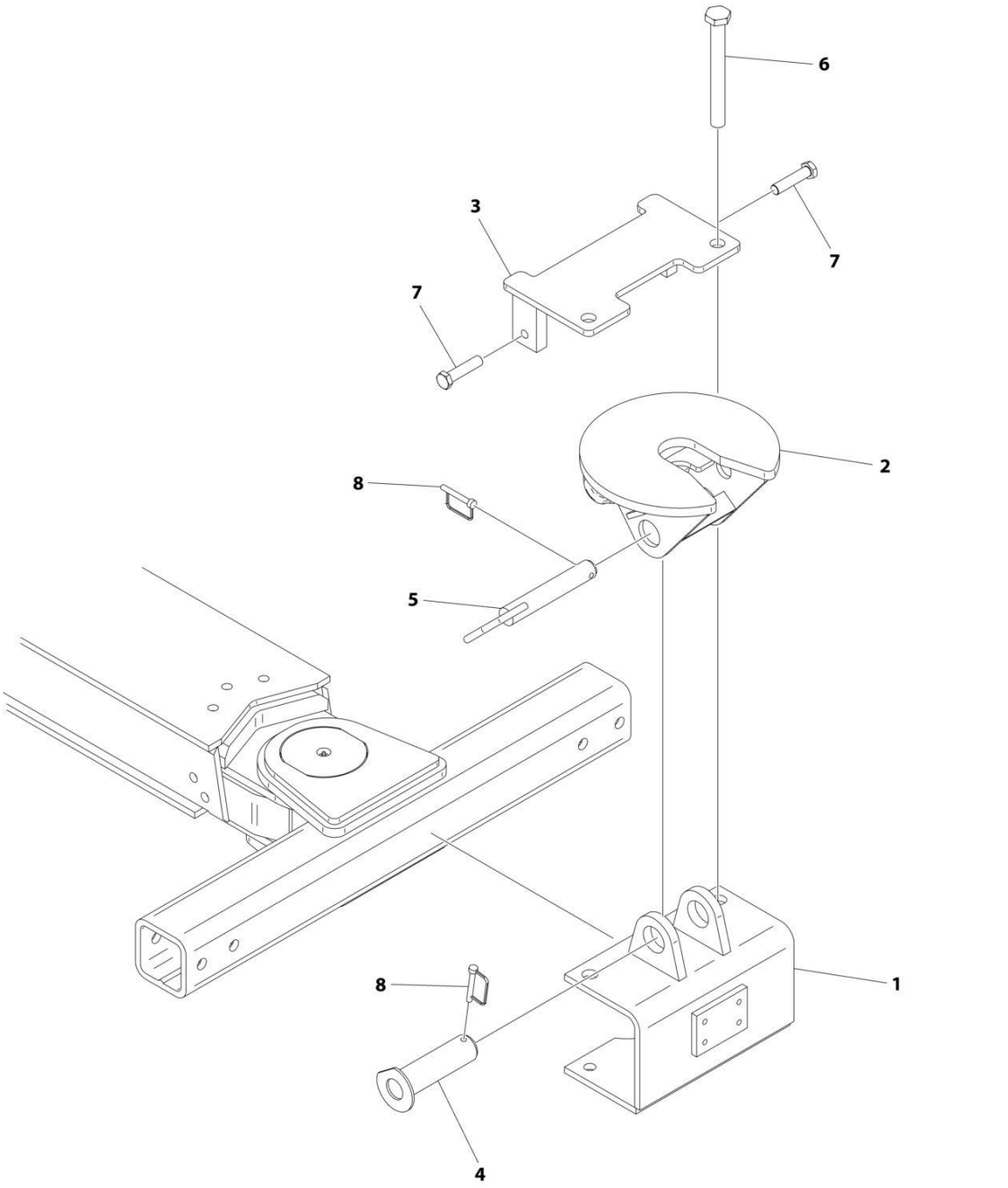
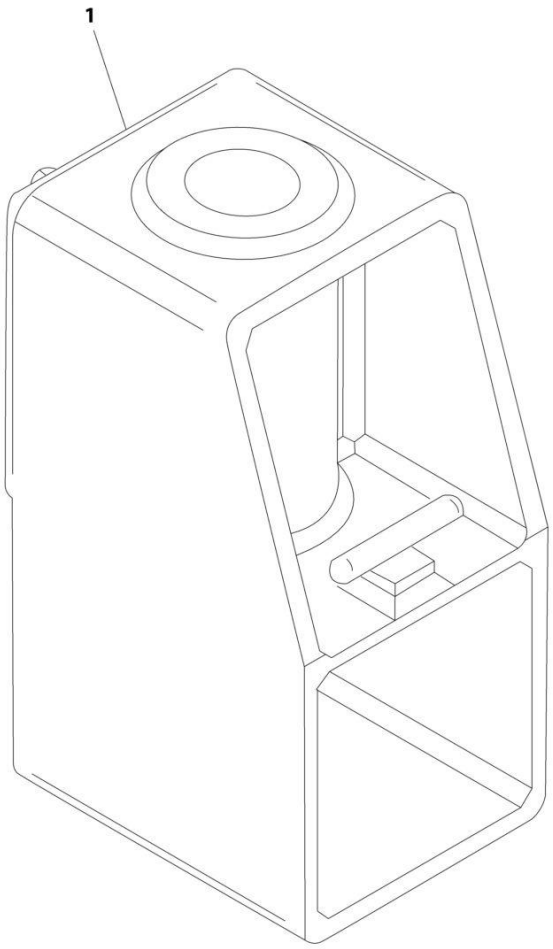


FIGURE 9-4. FIFTH WHEEL TOW ATTACHMENT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2503880033	Ref	Underlift Tools - 5th Wheel Installation	C
1	3178000240	1	Bracket	
2	3178000499	1	Bracket	
3	3706000080	1	Plate	
4	3691000144	1	Pin	
5	3691000145	1	Pin	
6	7118267250	2	Capscrew 1 x 9	
7	7120000036	2	Capscrew 3/4 x 3-1/4	
8	7691000025	2	Pin	

FIGURE 9-5. FORK RISER ADAPTERS

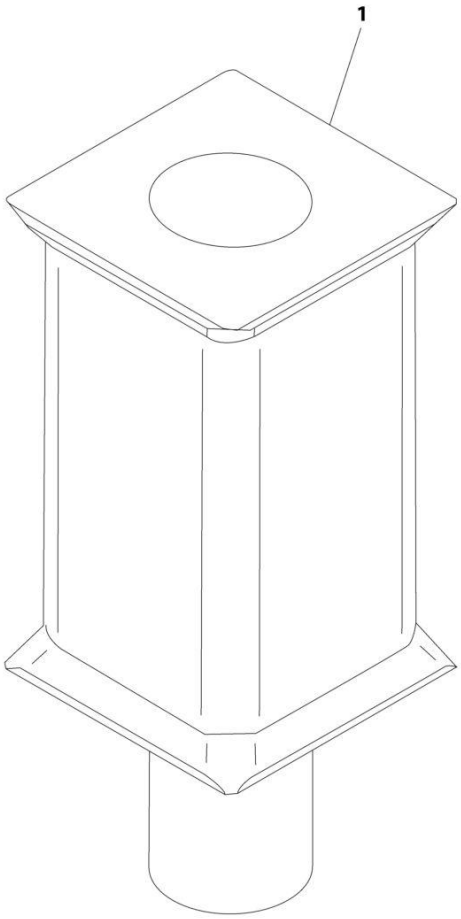


ART_1001231626

FIGURE 9-5. FORK RISER ADAPTERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231626	Ref	FORK RISER ADAPTER - 7IN	A
1	1001170172	2	Accessory Fork Riser	

FIGURE 9-6. FORK RISERS - 7IN



ART_1001231627

FIGURE 9-6. FORK RISERS - 7IN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231627	Ref	FORK RISER - 7IN	A
1	7002000502	2	Fork Riser Attachment	

FIGURE 9-7. FRAME FORK INSTALLATION (SPRING FORKS)

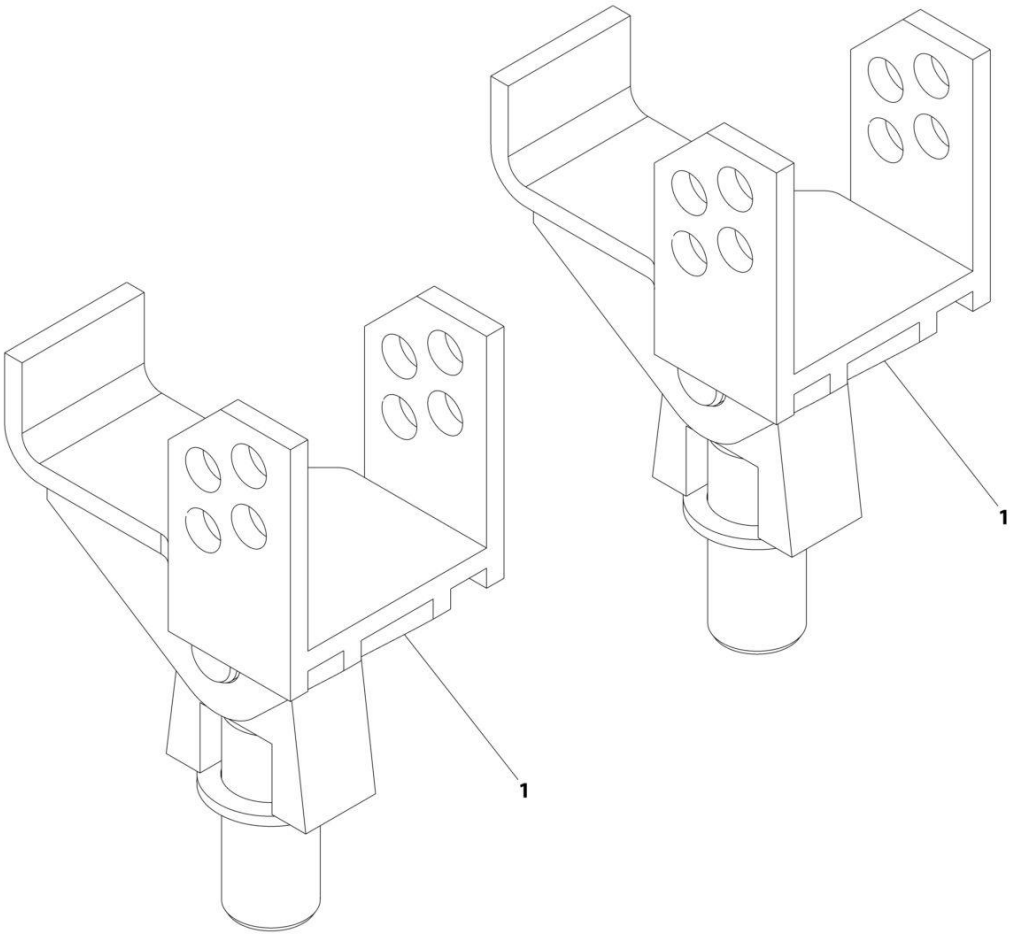


FIGURE 9-7. FRAME FORK INSTALLATION (SPRING FORKS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001289478	Ref	FRAME FORK INSTALLATION (SPRING FORKS)	A
1	3178000226	2	Spring Lift Bracket	

FIGURE 9-8. LOOP SLING KIT LEVEL 2

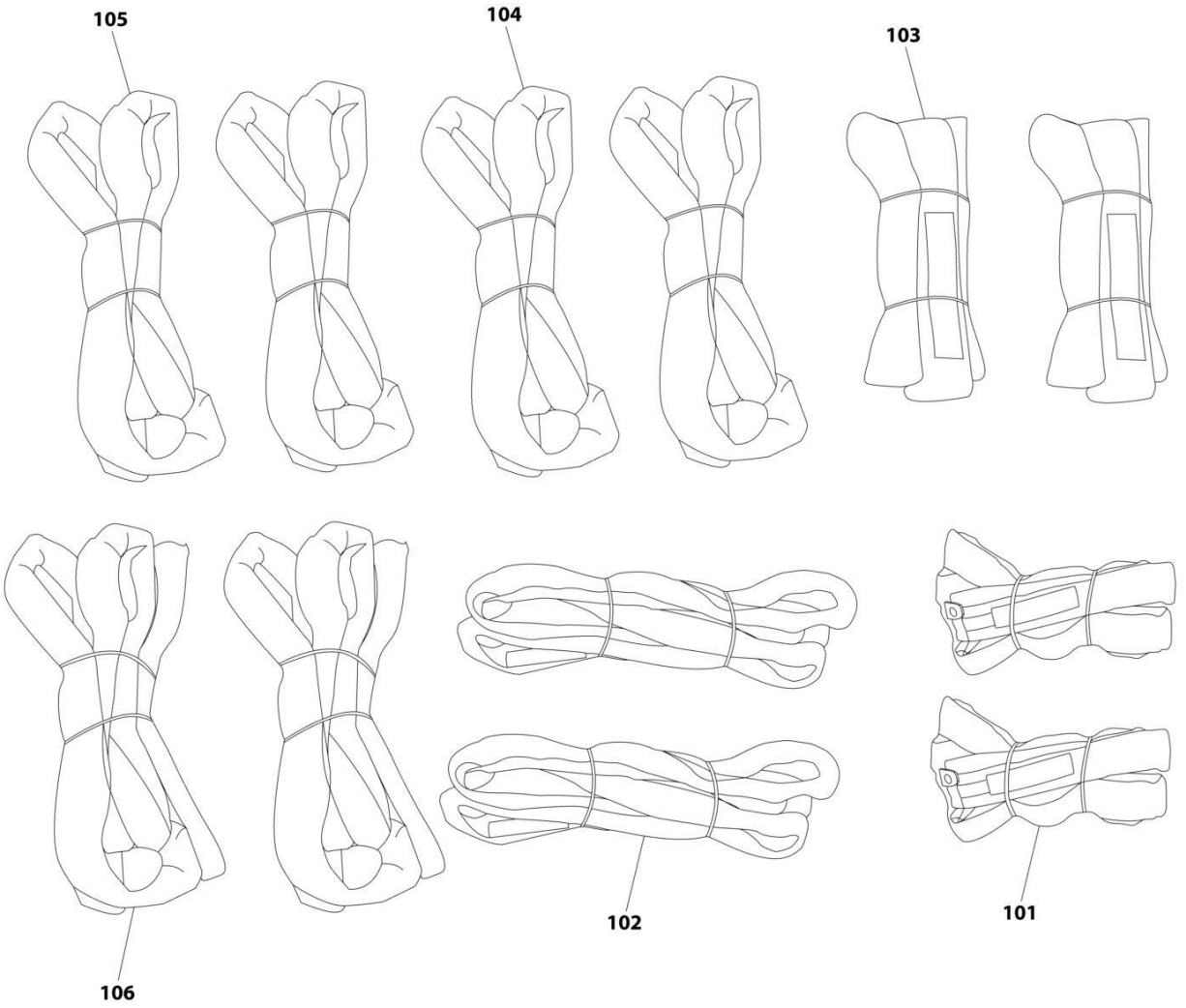


FIGURE 9-8. LOOP SLING KIT LEVEL 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233643	Ref	LOOP SLING KIT, LEVEL 2	A
1	1001208359	1	Loop Sling Kit (Not Shown)	
101	Kit	2	4FT Yellow Endless Loop	
102	Kit	2	6FT Yellow Endless Loop	
103	Kit	2	8FT Red Endless Loop	
104	Kit	2	12FT Red Endless Loop	
105	Kit	2	12FT Blue Endless Loop	
106	Kit	2	16FT Blue Endless Loop	

FIGURE 9-9. PINTLE HOOK WITH 2IN BALL

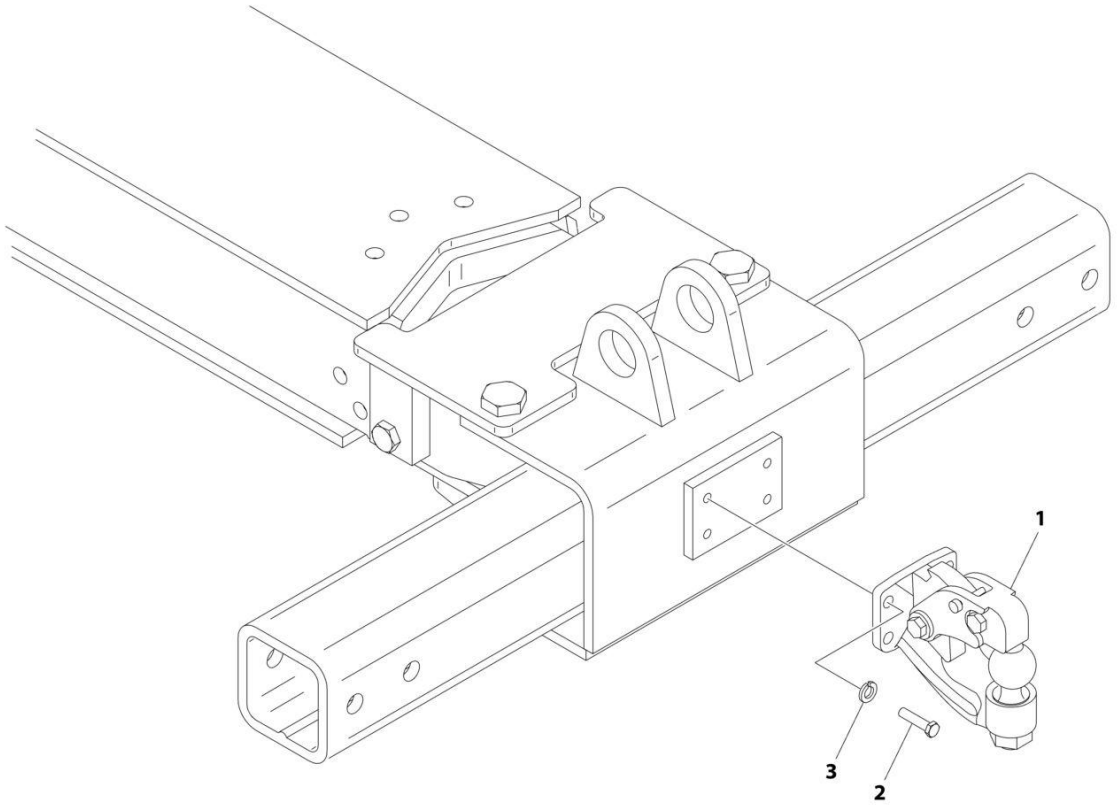
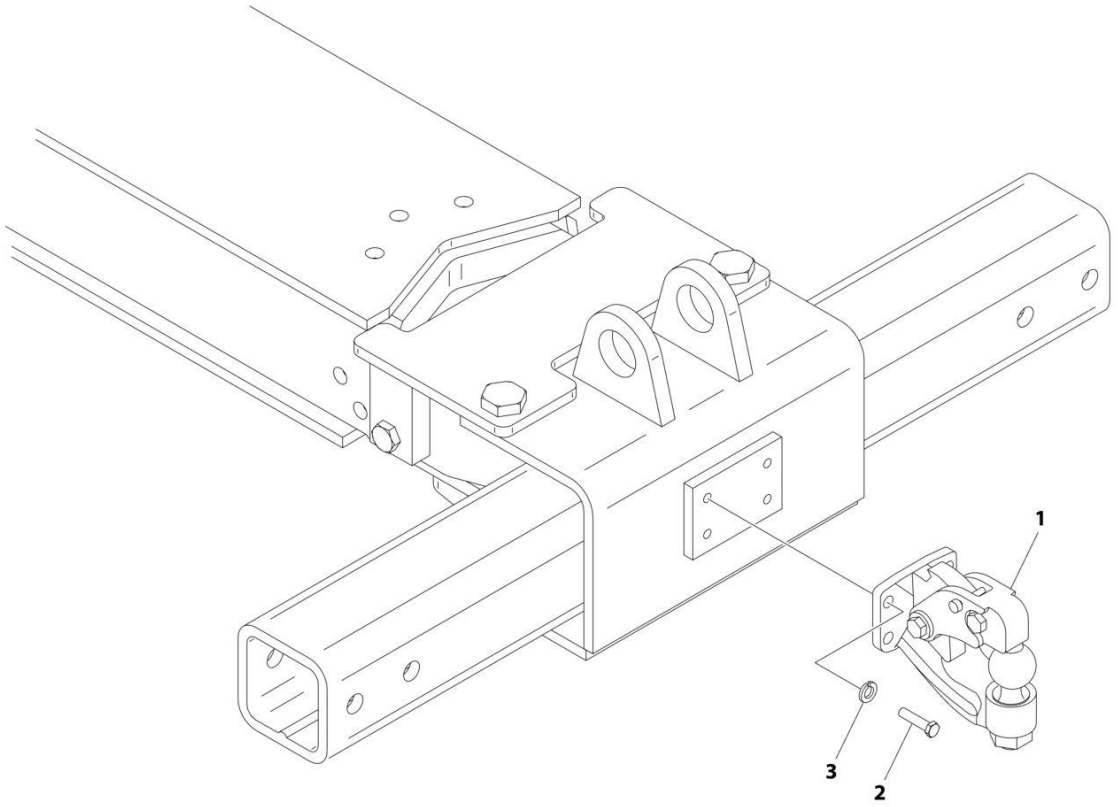


FIGURE 9-9. PINTLE HOOK WITH 2IN BALL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2503880043	Ref	UNDERLIFT TOW PINTLE HOOK WITH 2IN DIA BALL	A
1	7561000020	1	Hitch, Pintle Hook with 2IN Dia. Ball	
2	7118181250	4	Capscrew 1/2 x 1-1/2	
3	7950180000	4	Lockwasher 1/2	

FIGURE 9-10. PINTLE HOOK WITH 50MM BALL

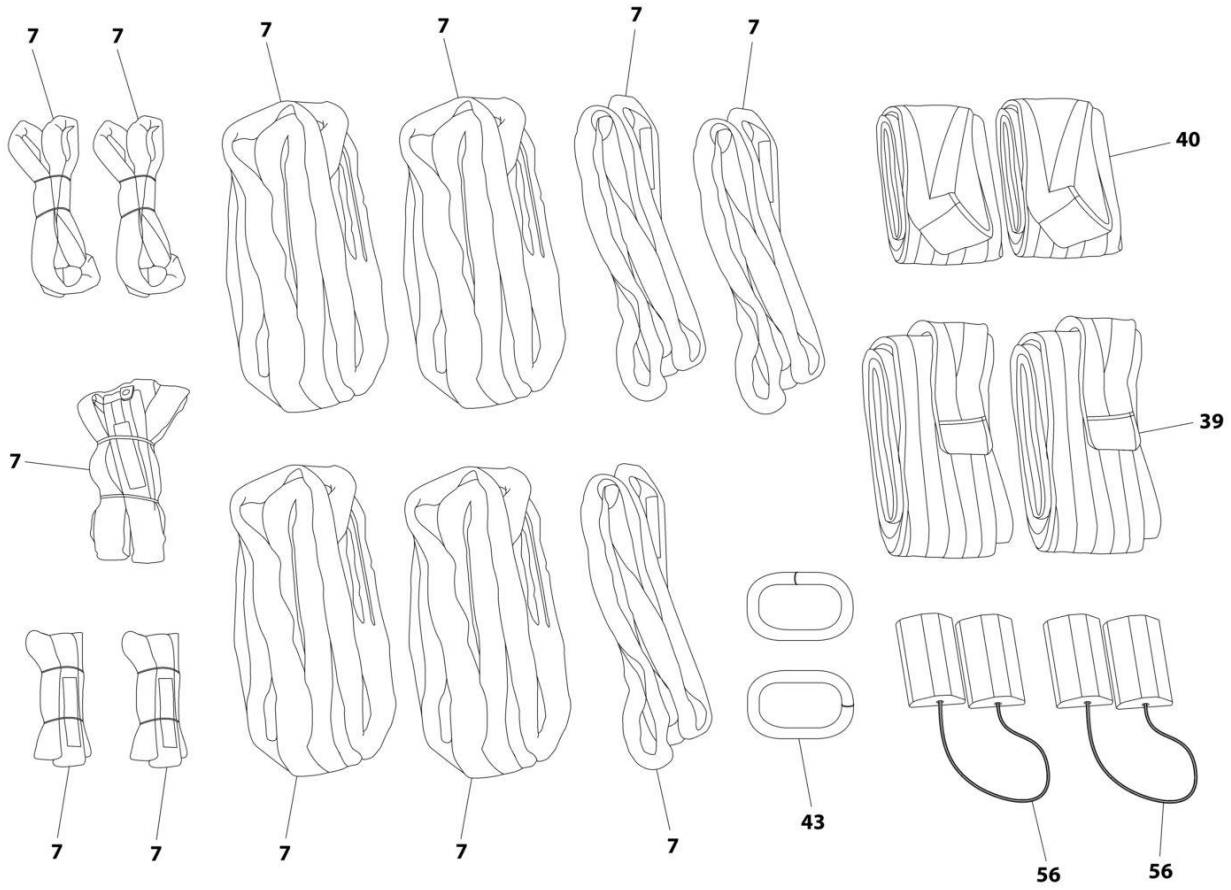


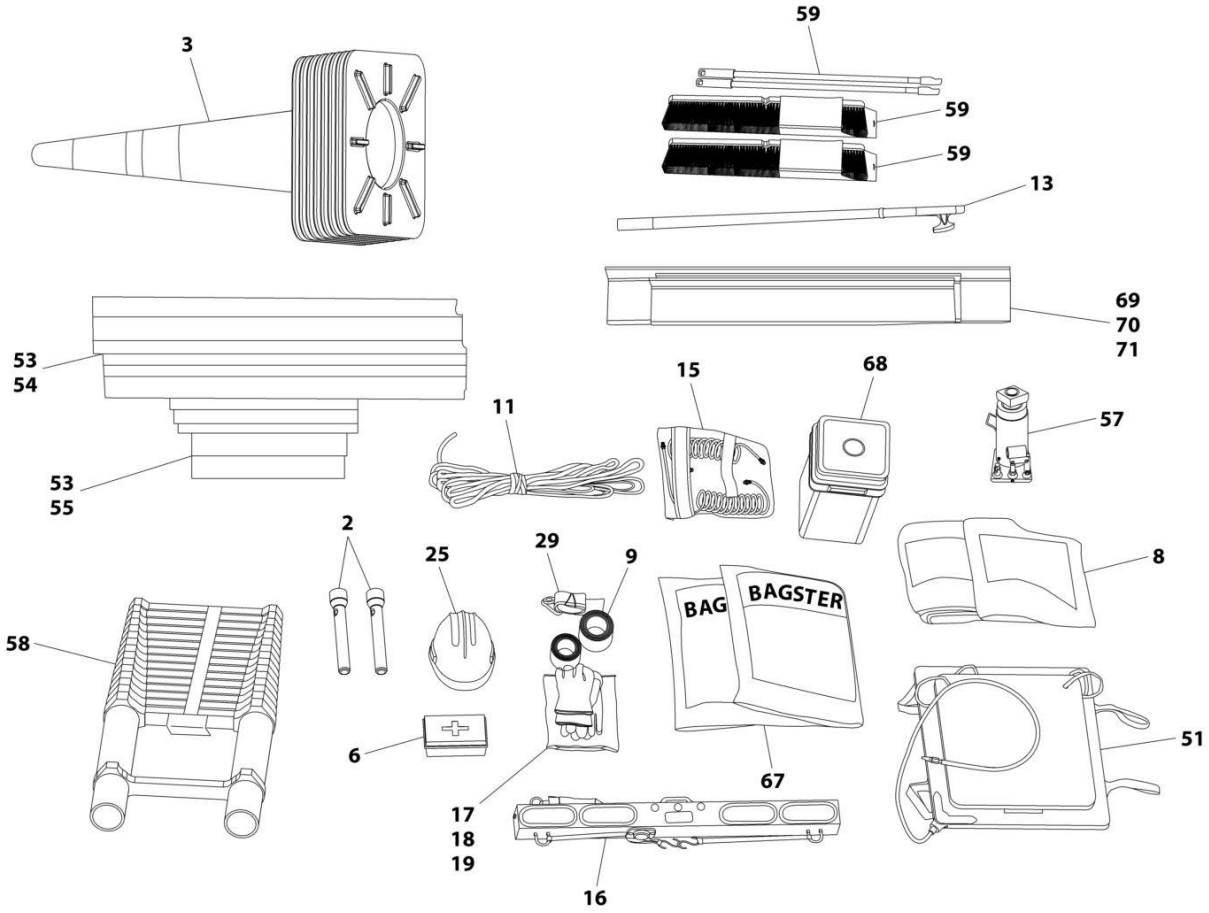
ART_2503880044

FIGURE 9-10. PINTLE HOOK WITH 50MM BALL

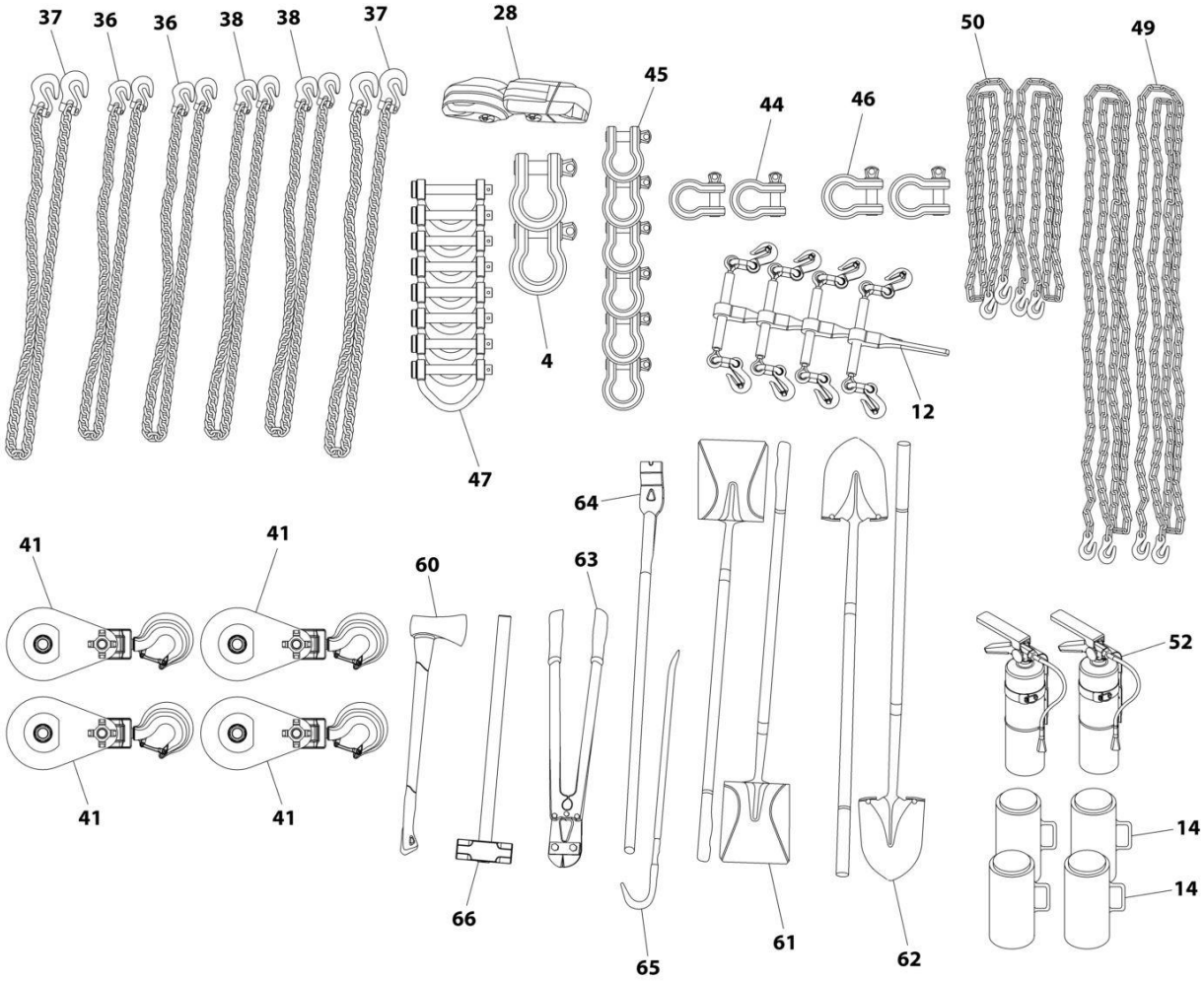
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2503880044	Ref	Underlift Tools - Pintle Hook With 50mm Dia Ball	A
1	7561000022	1	Hitch, Pintle Hook with 50mm Dia. Ball	
2	7118181250	4	Capscrew 1/2 x 1-1/2	
3	7950180000	4	Lockwasher 1/2	

FIGURE 9-11. RISC ACCESSORY PACKAGE (1OF5)

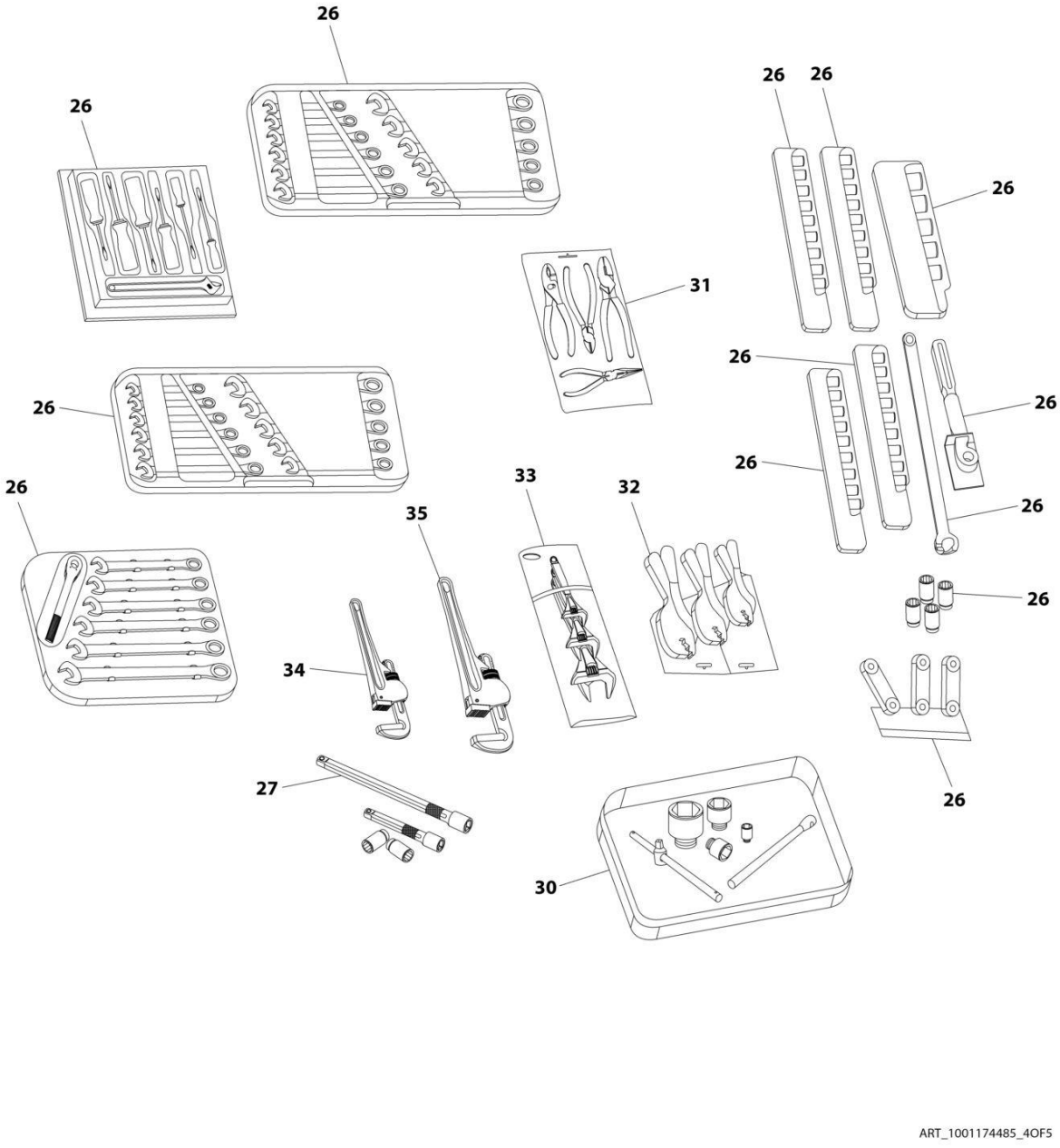



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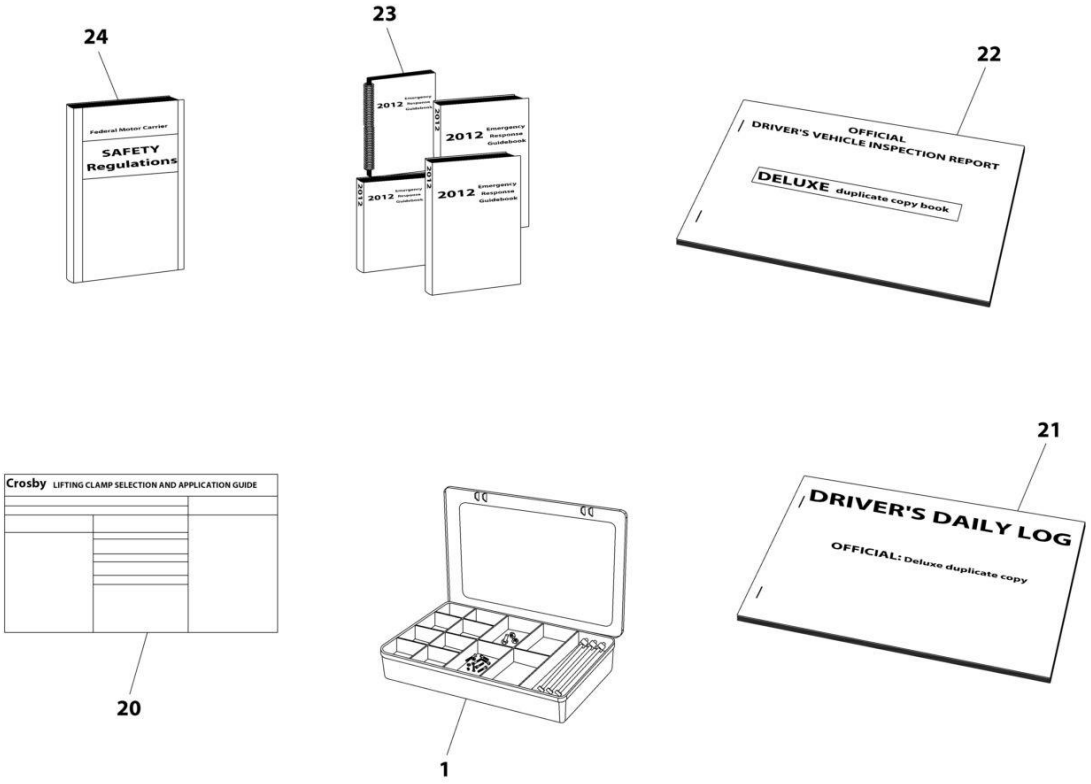
SECTION 9 - ACCESSORIES



ART_1001174485_3OF5


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ART_1001174485_4OF5

SECTION 9 - ACCESSORIES



ART_1001174485_5OF5

FIGURE 9-11. RISC ACCESSORY PACKAGE (5OF5)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001174485	Ref	Risc Accessory Package	D
1	70050850	1	Brake Release Kit	
2	70050851	2	Flashlight	
3	70050852	12	Traffic Cone	
4	70050853	2	Crosby Shackle	
5	70050854	2	Spill Absorbent Kit (Not Shown)	
6	70050855	1	First Aid Kit	
7	70050856	1	Endless Round Sling Kit	
8	70050857	2	Tarp	
9	70050858	2	Duct Tape	
10	70050859	2	Sewer Cover Mat (Not Shown)	
11	70050860	1	Rope	
12	70050861	4	Load Binder	
13	70050862	1	Retrieval Tool	
14	70050863	48	Flare	
15	70050864	1	Brake Air Hose Kit	
16	70050865	1	Wireless Tow Light	
17	70050866	2	Reflective Vest	
18	70050867	1	Chemical Gloves	
19	70050868	2	Safety Gloves	
20	70050869	1	Crosby Users Lifting Guide	
21	70050870	1	Log Book	
22	70050871	1	Inspection Book	
23	70050872	1	Emergency Response Book	
24	70050873	1	FMC Safety Regulation Book	
25	70050874	1	New Hire Kit	
26	70050875	1	Tool Set	
27	70050876	6	Drive Shaft Sockets	
28	70050877	2	Under Reach Strap	
29	70050878	1	Steering Wheel Lock	
30	70050879	1	Impact Socket	
31	70050880	1	Pliers Kit	
32	70050881	1	Vise Kit	
33	70050882	1	Adjustable Wrench Kit	
34	70050883	1	Pipe Wrench	
35	70050884	1	Pipe Wrench	
36	70050885	2	Chain	
37	70050886	2	Chain	
38	70050887	2	Chain	
39	70050888	2	Recovery Strap	
40	70050889	2	Recovery Strap	
41	70050890	4	Snatch Block	
42	70050891	1	Shackle Kit (Not Shown)	
43	70050892	2	Master Link	
44	70050893	2	Shackle, 17,000 LB	
45	70050894	6	Shackle, 24,000 LB	
46	70050895	2	Shackle, 34,000 LB	
47	70050896	8	Web Shackle	
48	70050897	1	Transport Chain	
49	70050898	2	Chain	

SECTION 9 - ACCESSORIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	70050899	2	Chain	
51	70050900	1	Air Cushion	
52	70050901	2	Fire Extinguisher	
53	70050902	1	Cribbing Kit	
54	70050903	4	Cribbing	
55	70050904	8	Cribbing	
56	70050905	4	Wheel Chocks	
57	70050906	1	Hydraulic Jack	
58	70050907	1	Ladder	
59	70050908	2	Push Broom	
60	70050909	1	Axe	
61	70050910	2	Shovel, Flat Blade	
62	70050911	2	Shovel, Round Blade	
63	70050912	1	Bolt Cutter	
64	70050913	1	Grizzley Bar	
65	70050914	1	Crow Bar	
66	70050915	1	Sledge Hammer	
67	70050916	2	Trash Can	
68	70050917	1	Spill Kit	
69	70050918	1	Angle Kit	
70	70050919	2	Angle	
71	70050920	1	Angle	

FIGURE 9-12. RUGGED KIT

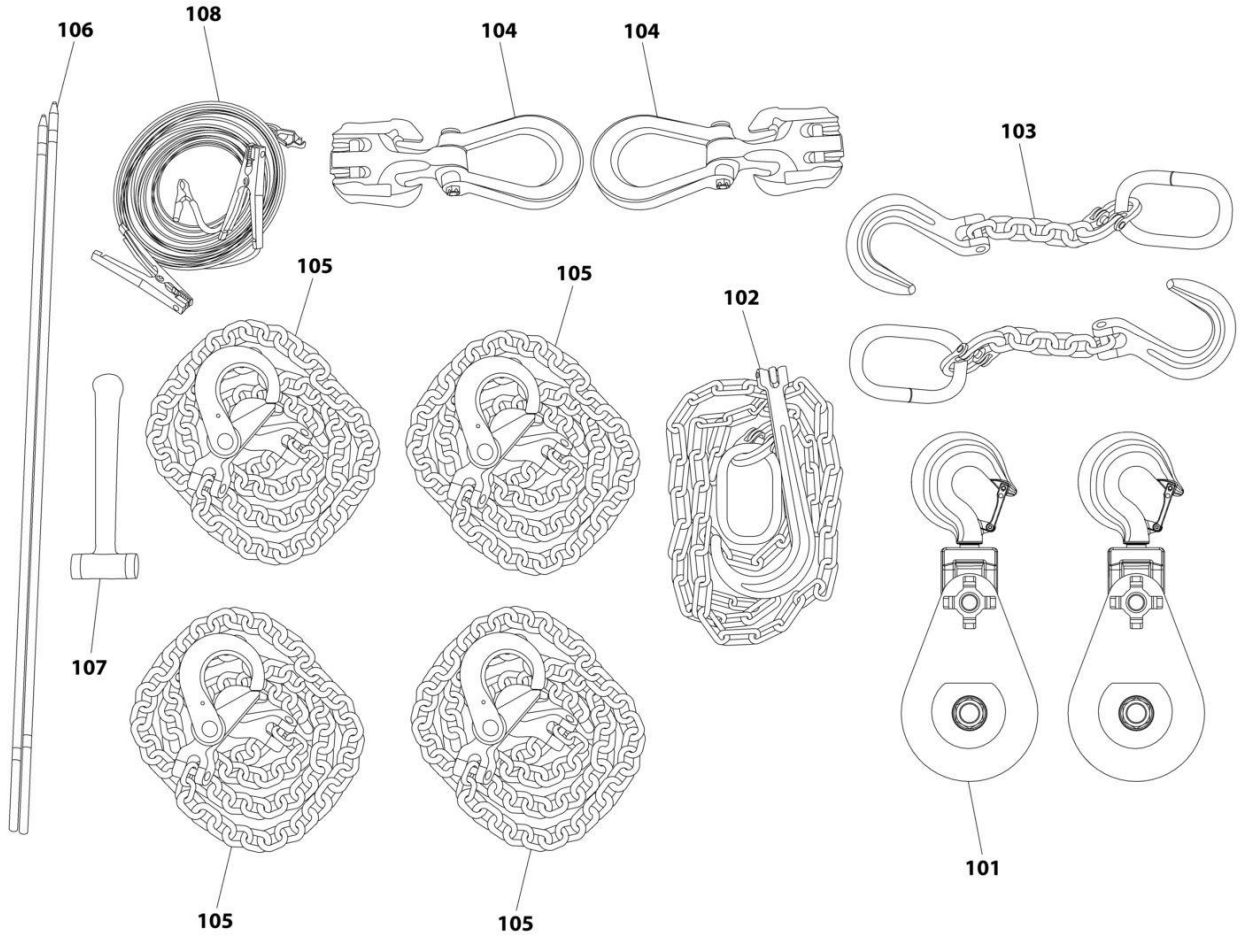


FIGURE 9-12. RUGGED KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233649	Ref	RUGGED KIT, JFB	A
1	1001174490	1	Rugged Package (Not Shown)	
101	Kit	2	7/8 x 8IN Diameter Snatch Block, 30,000#	
102	Kit	1	3/8 x 10FT Recover Chain	
103	Kit	2	1/2IN x 2FT Recovery Chain, 15,000#	
104	Kit	2	1/2IN Double Leg Recovery Sling Eliminator, 30,000#	
105	Kit	4	1/2IN x 10FT Recovery Chain w/Self-Locking Clevis	
106	Kit	2	1/2IN x 48IN Copper Ground Stake	
107	Kit	1	Non-Sparking Brass Mallet	
108	Kit	3	30FT Ground Wire	

FIGURE 9-13. SHACKLE KIT LEVEL 2

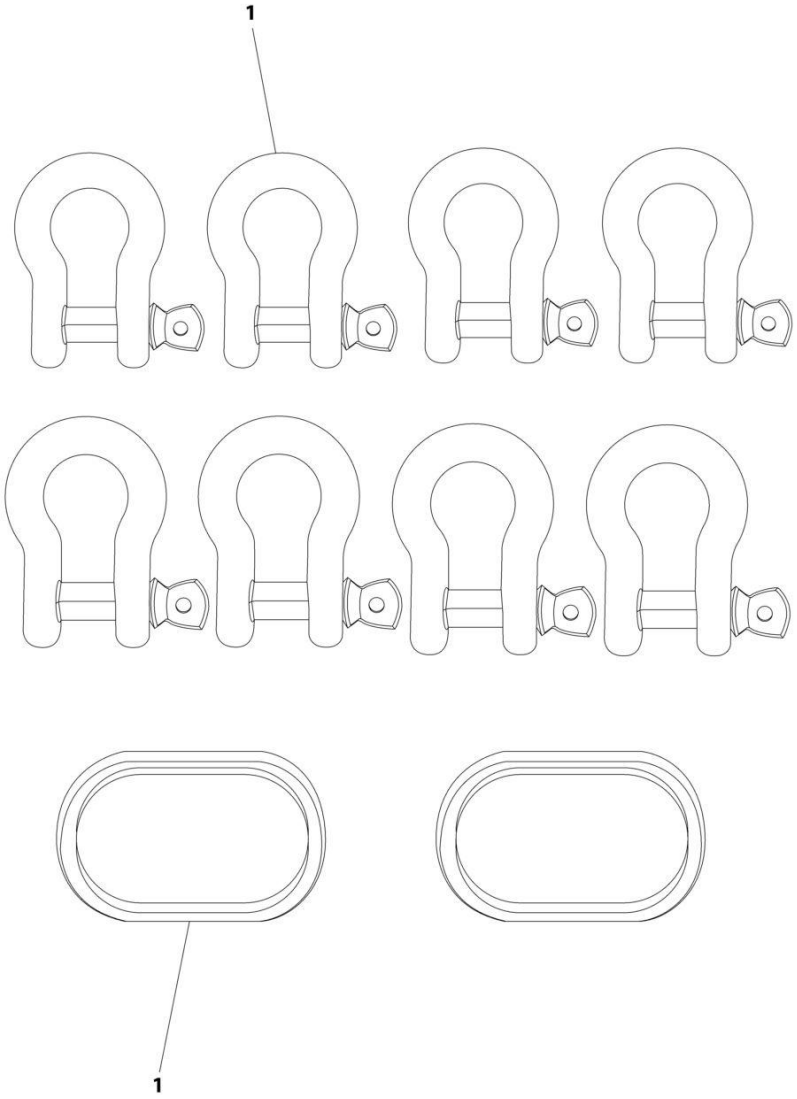


FIGURE 9-13. SHACKLE KIT LEVEL 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001233647	Ref	SHACKLE KIT, LEVEL 2	A
1	1001208361	1	Shackle Kit	
1	Kit	2	Master Link, 1.25IN Pin	
1	Kit	2	Screw Pin Shackle, 1IN Pin	
1	Kit	6	Screw Pin Shackle, 1.25IN Pin	
1	Kit	2	Screw Pin Shackle, 1.5IN	

FIGURE 9-14. SNATCH BLOCK KIT

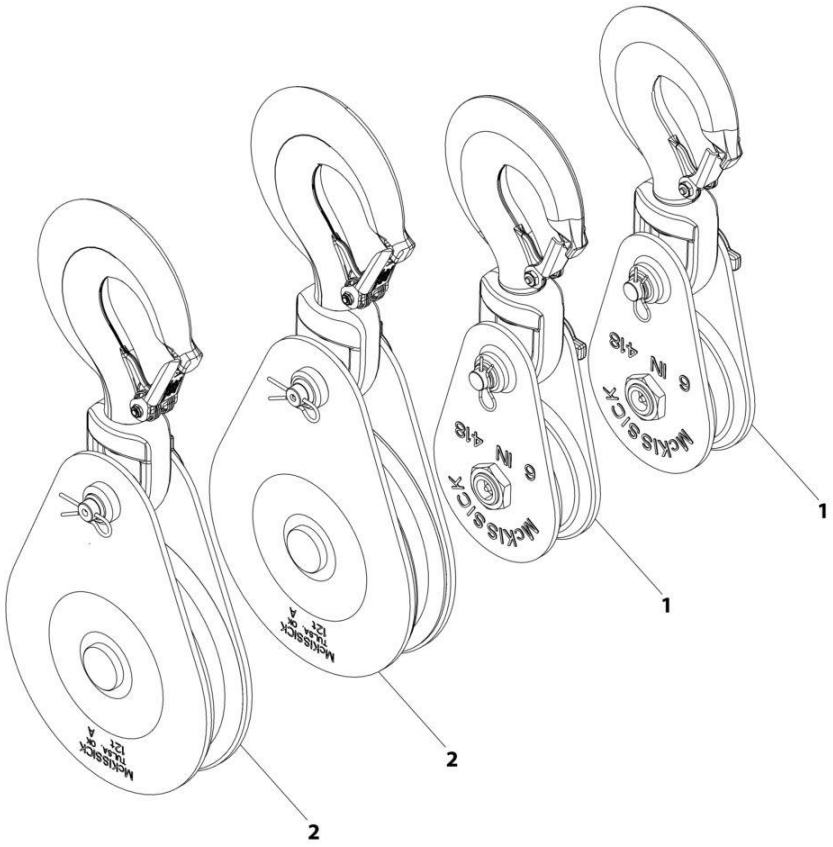


FIGURE 9-14. SNATCH BLOCK KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001241607	Ref	SNATCH BLOCKS KIT	B
1	1001303490	2	Snatch Block (8T)	
2	1001303104	2	Snatch Block (12T)	

FIGURE 9-15. SPREADER BAR KIT (ALUM 20K)

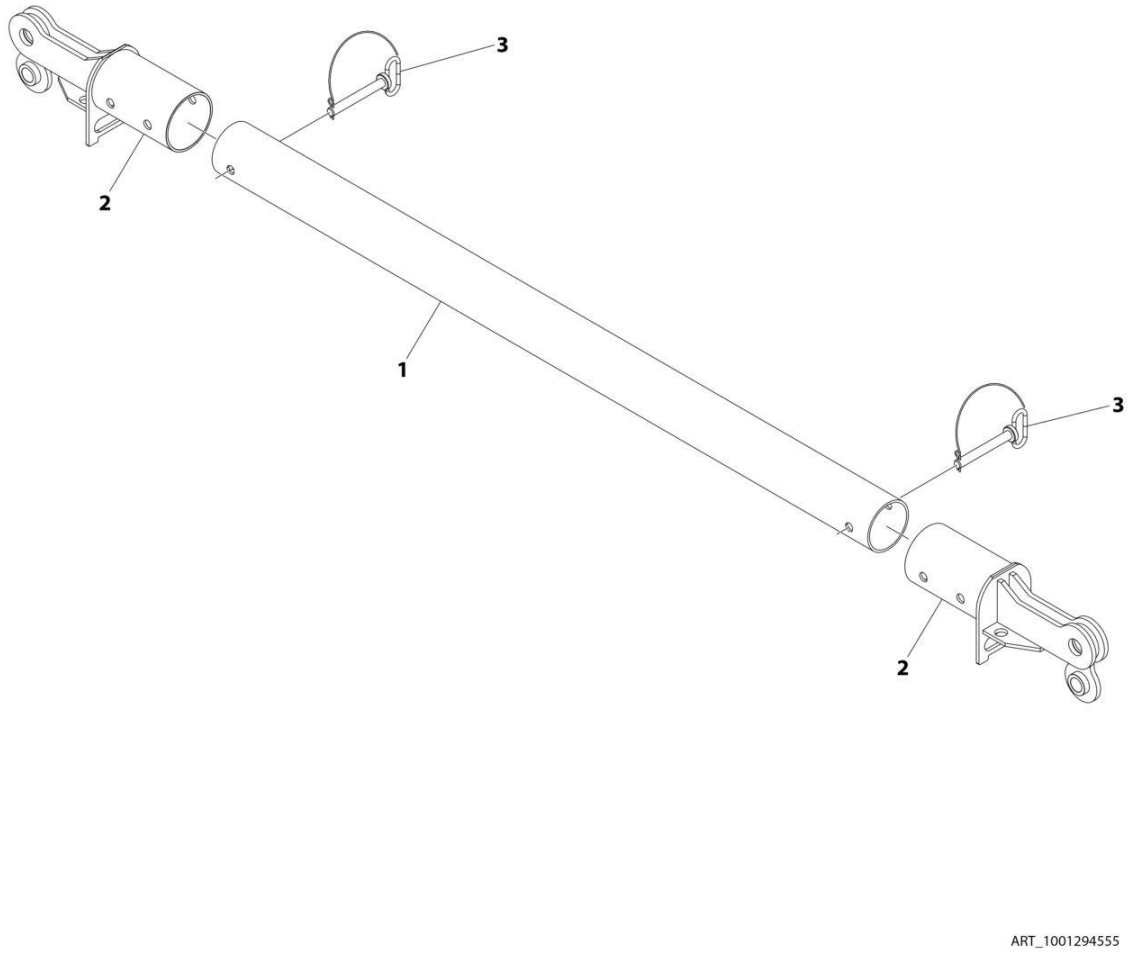


FIGURE 9-15. SPREADER BAR KIT (ALUM 20K)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001294555	Ref	SPREADER BAR KIT	A
	1001294510	1	Spreader Bar Assembly	
	See Note	1	Note: Items 1-3 are shown as a reference and are not available for individual purchase due to multiple suppliers.	
1		Ref	Tube (Use PN 1001294510) **(Including ~NSS)**	
2		Ref	End (Use PN 1001294510) **(Including ~NSS)**	
3		Ref	Pin (Use PN 1001294510) **(Including ~NSS)**	

FIGURE 9-16. SPREADER BAR KIT (JD)

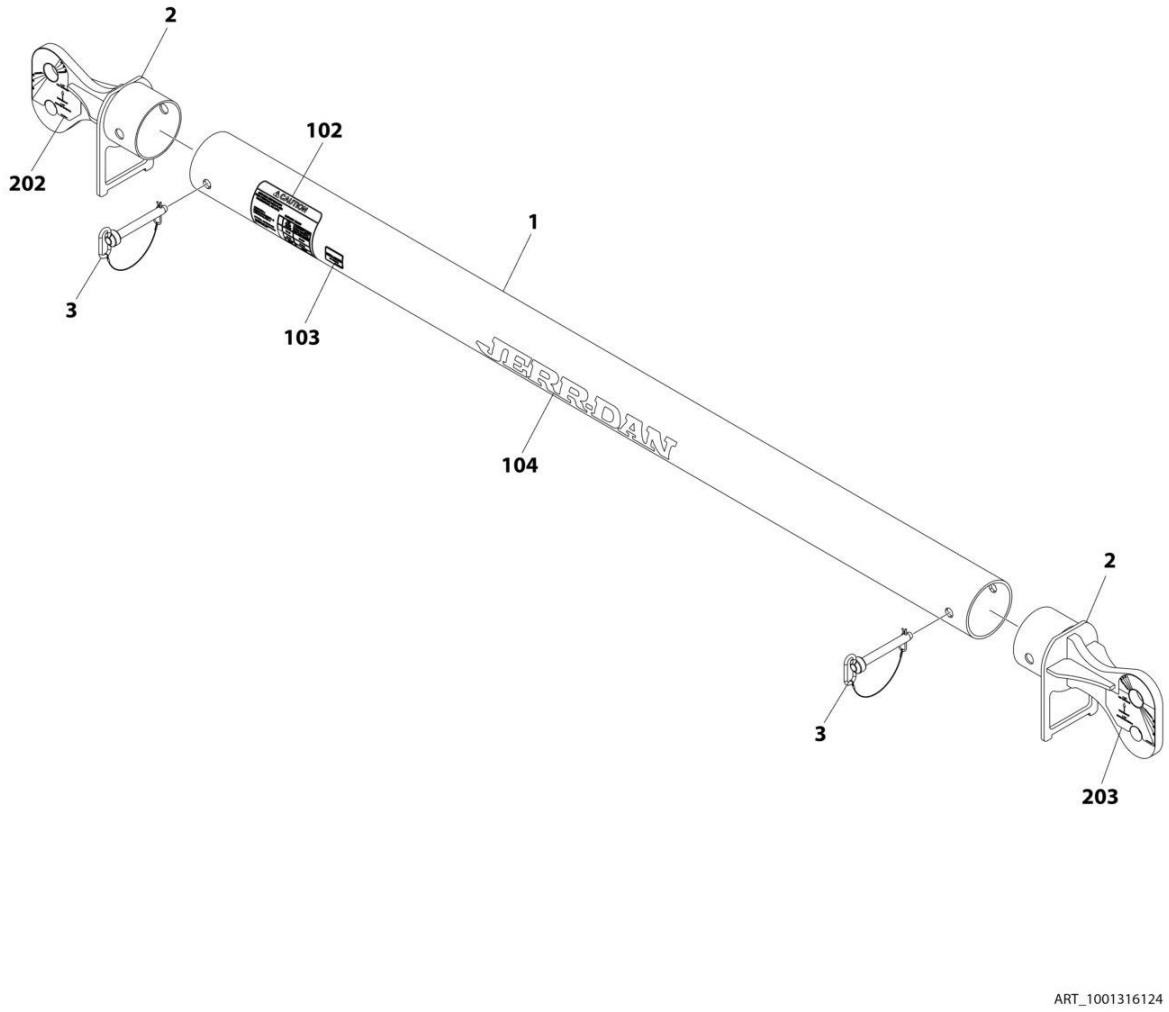
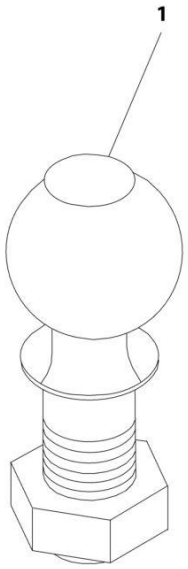


FIGURE 9-16. SPREADER BAR KIT (JD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001316124	Ref	SPREADER BAR KIT	A
	1001309755	1	Spreader Bar Assembly	
1	1001313967	1	Tube with Decals (Includes Items 102 & 104)	
2	1001313968	2	End with Decals (Includes Items 202 & 203)	
3	1001314954	2	Pin	
102	1001313136	2	Decal - Chart	
103	See Note	NSS	Decal - SN (Note: Unique PN - Not Available for Purchase)	
104	1001313966	2	Decal - JERR-DAN	
202	1001313085	2	Decal - Arm A (1 per End)	
203	1001313086	2	Decal - Arm B (1 per End)	

FIGURE 9-17. TOW BALL - 1,88IN DIA

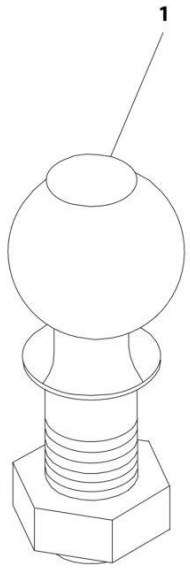


ART_1001231628

FIGURE 9-17. TOW BALL - 1,88IN DIA

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231628	Ref	TOW BALL - 1.88IN DIA	A
1	7056000003	1	Ball, 1.88IN Dia	

FIGURE 9-18. TOW BALL - 2IN DIA

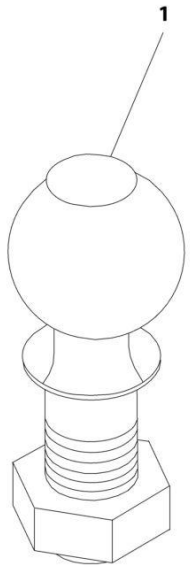


ART_1001231629

FIGURE 9-18. TOW BALL - 2IN DIA

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231629	Ref	TOW BALL - 2IN DIA	A
1	7056000004	1	Ball, 2.00IN Dia	

FIGURE 9-19. TOW BALL - 2.31IN DIA

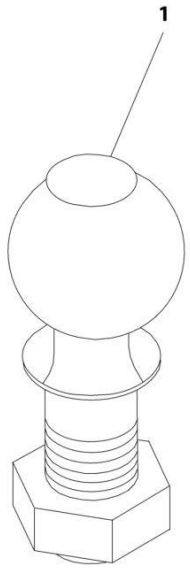


ART_1001231630

FIGURE 9-19. TOW BALL - 2.31IN DIA

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231630	Ref	TOW BALL - 2.31IN DIA	A
1	7056000005	1	Ball, 2.31IN Dia	

FIGURE 9-20. TOW BALL - 50MM DIA



ART_1001231631

FIGURE 9-20. TOW BALL - 50MM DIA

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001231631	Ref	Tow Acc, 50mm Dia Pintle Hook Ball	A
1	7056000006	1	Ball, 50mm Dia	

FIGURE 9-21. UNDERLIFT TOOLS - 25,000 LB TIRE LIFT

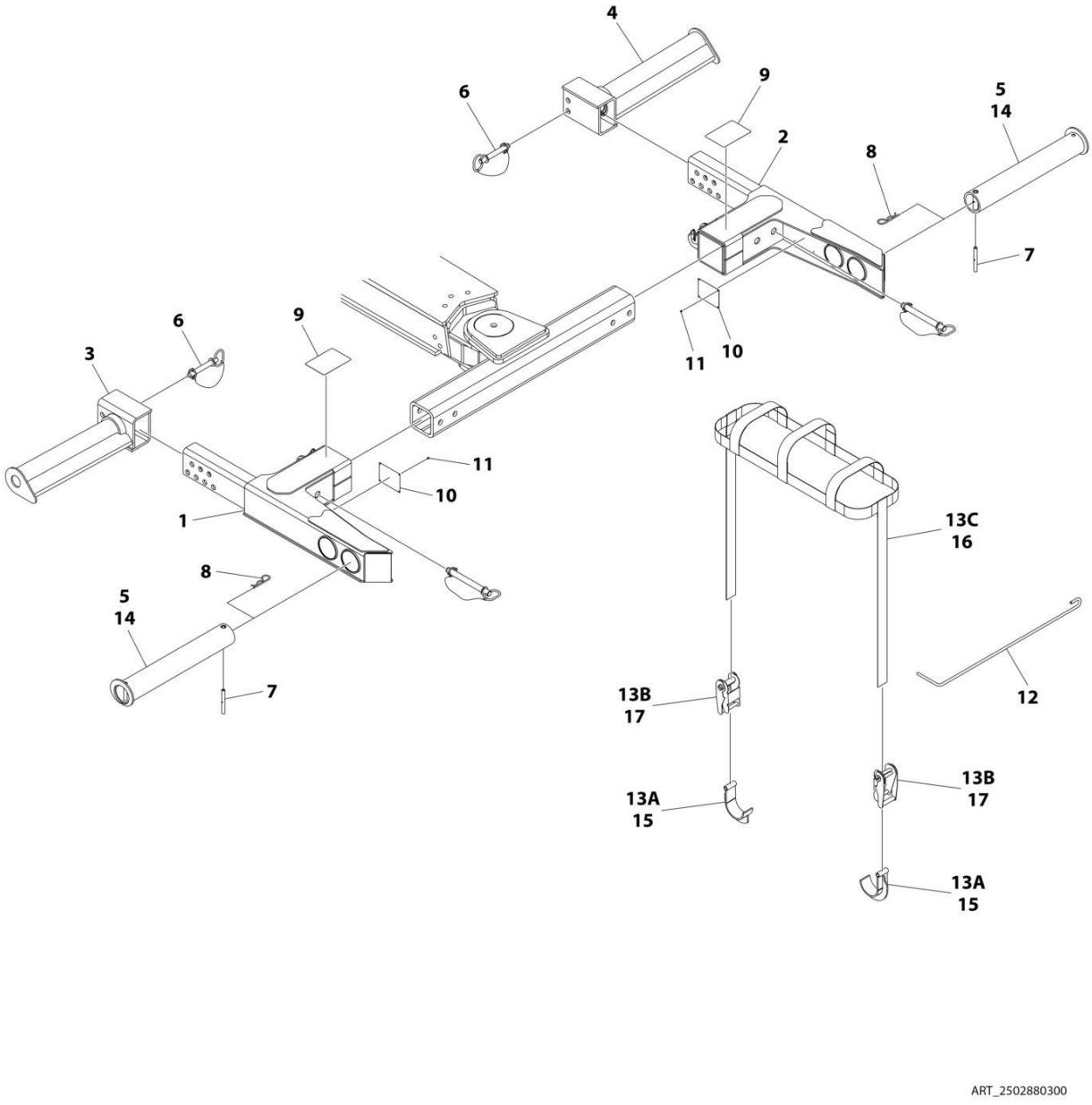


FIGURE 9-21. UNDERLIFT TOOLS - 25,000 LB TIRE LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2502880300	Ref	Underlift Tools - 25,000 lbs Tire Lift	D
1	3484000072	1	Tire Lift Grid - LH	
2	3484000073	1	Tire Lift Grid - RH	
3	3020000119	1	Tire Lift Arm Weldment - LH	
4	3020000120	1	Tire Lift Arm Weldment - RH	
5	3912000033	2	Tire Lift Tube Weldment - 27.5” Long	
6	7691000026	2	Hitch Pin	
7	4691000274	4	Pin	
8	7691000020	4	Hairpin	
9	7330000278	2	Decal	
10	1001132265	2	Decal	
11	7759000004	8	Rivet	
12	4561000012	1	Hook, Pull	
13	7577000368	1	Strap Kit	
13A	3561000015	4	Hook, 3” Wide Strap	
13B	7894000060	2	Ratchet, 3” Wide Strap	
13C	7894000057	1	Strap, 3” Wide	
14	3912000038	2	Tire Lift Tube Weldment - 23” Long	
15	3561000008	4	Hook, 2” Wide Strap	
16	7894000037	2	Strap, 2” Wide	
17	7894000028	4	Ratchet, 2” Wide Strap	
18	7894000041	2	Tie-Strap (Not Shown)	

SECTION 10 - BUILD DOCUMENTS

SECTION 10 - BUILD DOCUMENTS

FIGURE 10-1. BUILD DOC_5376000337

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: This list is for build tracking purposes only. Parts in this list are not available at this inventory stocking level. Parts in this list may not be applicable to all models. For more specific parts information contact Jerr-Dan Parts Department**	
	1001166540	Ref	Auxiliary Winch Installation - DP	
	1001166536	Ref	Auxiliary Winch Installation - DP (See Separate Breakdown in BOOM Section)	
	1001158671	Ref	Auxiliary Winch Steel Tube Installation (See Separate Breakdown in HYDRAULIC Section)	
	1001158828	Ref	Auxiliary Winch Cable Tie- Back Installation (See Separate Breakdown in BOOM Section)	
	1001277977	Ref	Auxiliary Winch Installation - Ramsey	
	1001277976	Ref	Auxiliary Winch Installation - Ramsey (See Separate Breakdown in BOOM Section)	
	1001158671	Ref	Auxiliary Winch Steel Tube Installation (See Separate Breakdown in HYDRAULIC Section)	
	1001158828	Ref	Auxiliary Winch Cable Tie- Back Installation (See Separate Breakdown in BOOM Section)	
	1001227092	Ref	Body Hole Fill Kit	
	1001306194	Ref	NO BATTERY RELOCATION INSTALLATION	
	1001220173	Ref	Paint - Winch Hooks & Handles	
	1001270118	Ref	Paint - Winch Hooks & Handles	
	1001270119	Ref	Paint - Main Winch Hooks & Handles	
		Ref	**PTO (Installation & replacement is based on individual characteristics of the unit - Contact Jerr-Dan Parts Dept.)**	
	TP_REF	Ref	Pump (Installation & replacement is based on individual characteristics of the unit - Contact Jerr-Dan Parts Dept.)	
	1001307872	Ref	STORAGE OPTIONS PACKAGE - GOLD (WITH AXLE - SHORT TUNNEL)	
	1001307874	Ref	STORAGE OPTIONS PACKAGE - GOLD (WITH AXLE - TALL TUNNEL)	
	1001307873	Ref	STORAGE OPTIONS PACKAGE - GOLD (WITHOUT AXLE - SHORT TUNNEL)	
	1001311473	Ref	STORAGE OPTIONS PACKAGE - GOLD (WITH AXLE - NO TUNNEL)	

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