Illustrated Parts Manual

Model
2646ES
3246ES

PVC
1910

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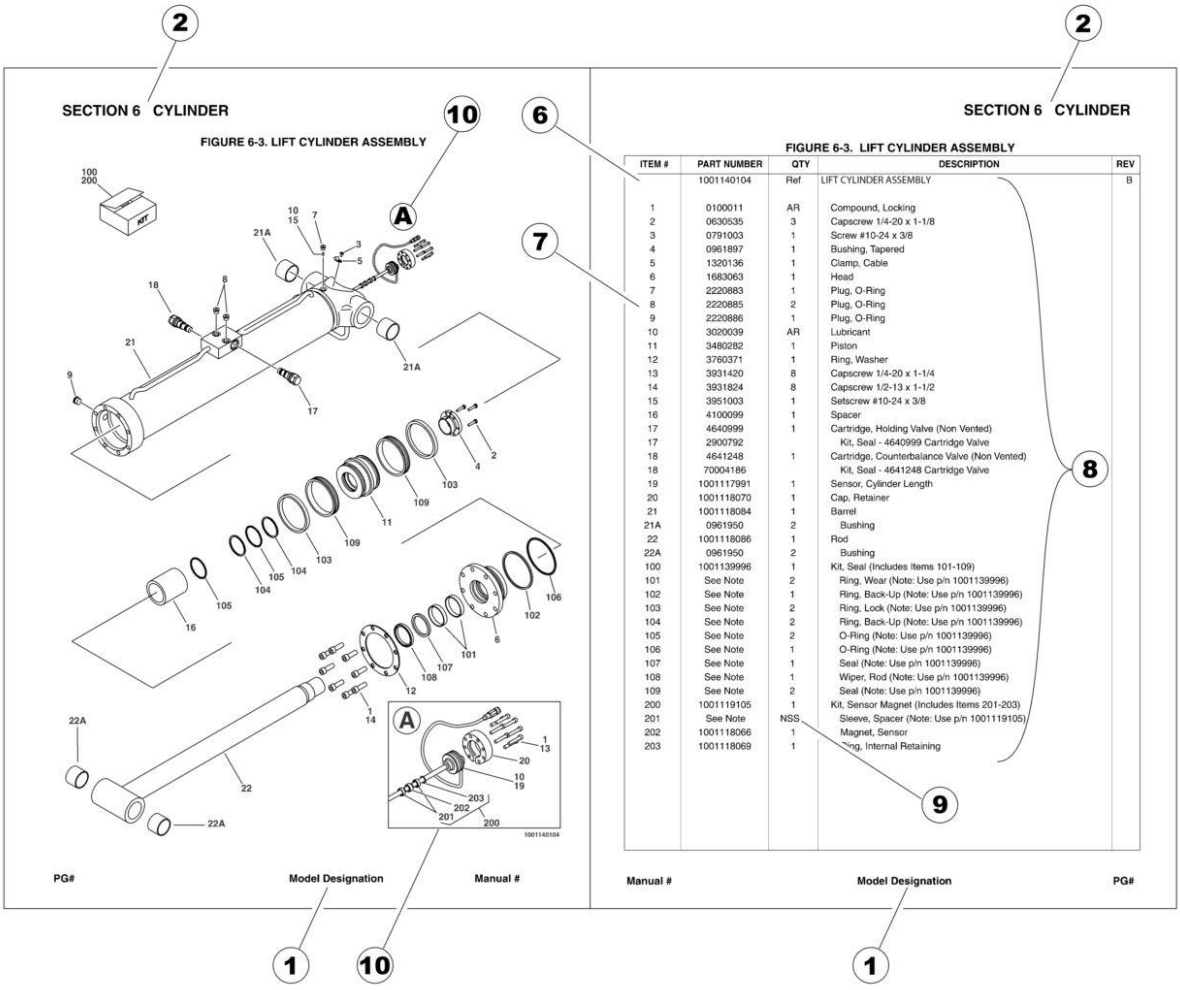
An Oshkosh Corporation Company

REVISION LOG

REVISION LOG:

November 1, 2019 - A - Original Issue of Manual

GENERAL INFORMATION



1) MACHINE IDENTIFICATION

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

2) PARTS MANUAL ORGANIZATION

Product information in this manual is organized under section titles. Frame, Cylinder, Hydraulic and Electrical are a few examples. Each section is organized by figure and page number. The information within the Figure is then organized by item number, part number, description and corresponding illustration (s).

3) TABLE OF CONTENTS (NOT SHOWN)

A table of contents is found toward the beginning of the manual. Figure number, description and page number are provided for quick reference to the page containing the related information.

4) RECOMMENDED SPARE PARTS (NOT SHOWN)

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

5) PART NUMBER INDEX (NOT SHOWN)

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

GENERAL INFORMATION

6) NON-SERVICED PARTS

In some instances, it is necessary to display non-serviced parts, assemblies or installations. In the case of assemblies and installations there will be a Ref in the Qty. column. In case of parts that are not available for service within assemblies or components, there will be a NSS (Not Sold Separately) or NLA (No Longer Available) listed in the Qty. column of the manual.

7) PARTS LIST ITEM NUMBERS

Numbers shown in the item# column correspond to numbers used in the associated illustration (s). Item numbers which are missing from the sequence in the parts list are not used on that page.

8) INDENTED PARTS DESCRIPTION

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

9) ABBREVIATION AND SYMBOLS

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

10) ILLUSTRATION REFERANCE LETTERS

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

Note: Due to continuous product improvements, JLG Industries, Inc. reserves the right to make specification changes without prior notification. Contact JLG Industries, Inc. for updated information.

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FIGURE 1-1. STEERING INSTALLATION (USA AND MEXICO BUILT MACHINES)

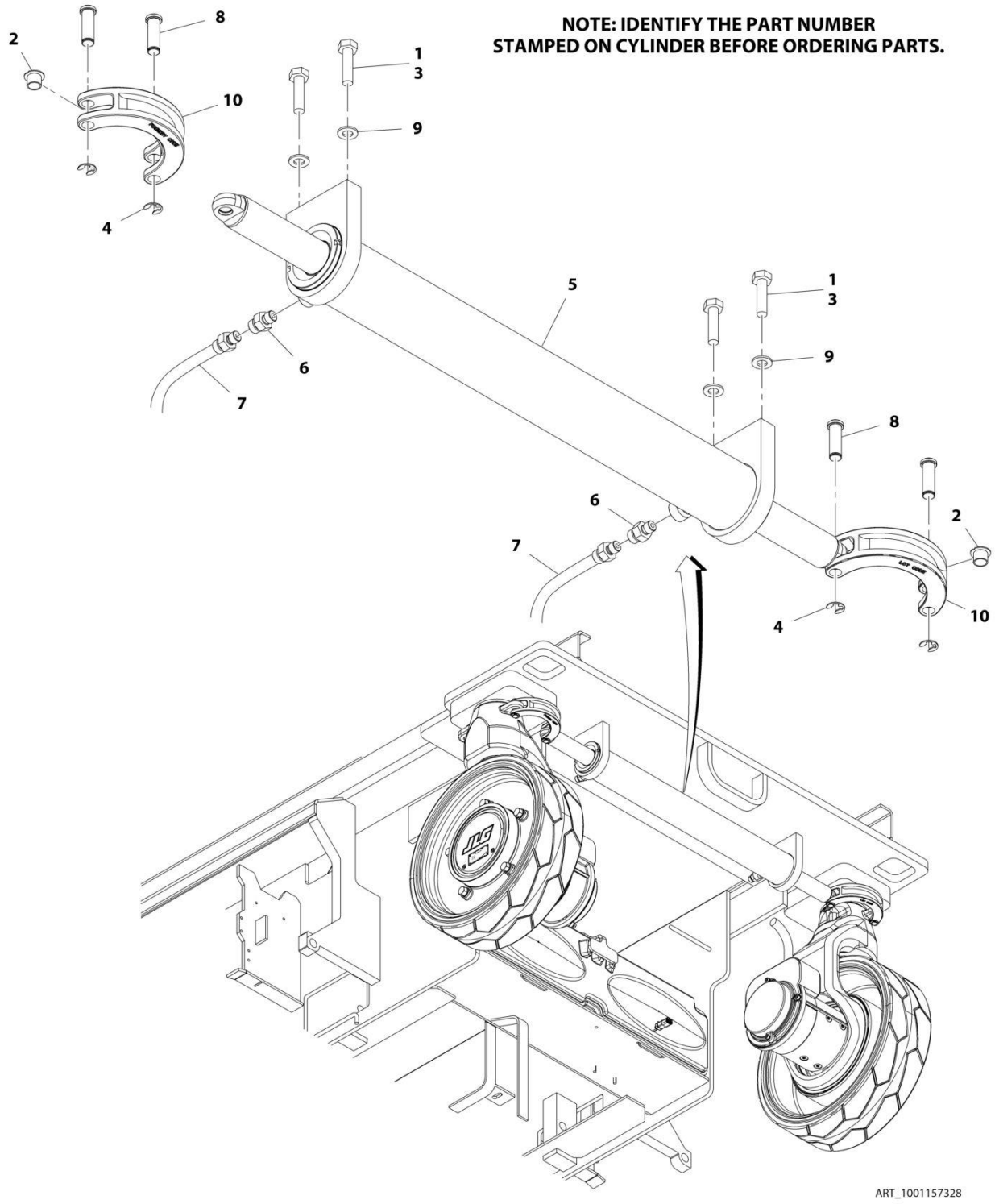


FIGURE 1-1. STEERING INSTALLATION (USA AND MEXICO BUILT MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157328	Ref	STEERING INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0440259	2	Bearing	
3	0701016	4	Bolt M10 x 40	
4	1380153	4	Clip	
5	1001155851	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
6	2110404	2	Fitting, Straight ORFS/ORB	
7	2753883	2	Steering Hose Assembly	
8	3423037	4	Pin, Clevis	
9	4812000	4	Washer M10	
10	4846757	2	Lug, Steer	

FIGURE 1-2. STEERING INSTALLATION (BELGIUM, CHINA AND MEXICO BUILT MACHINES)

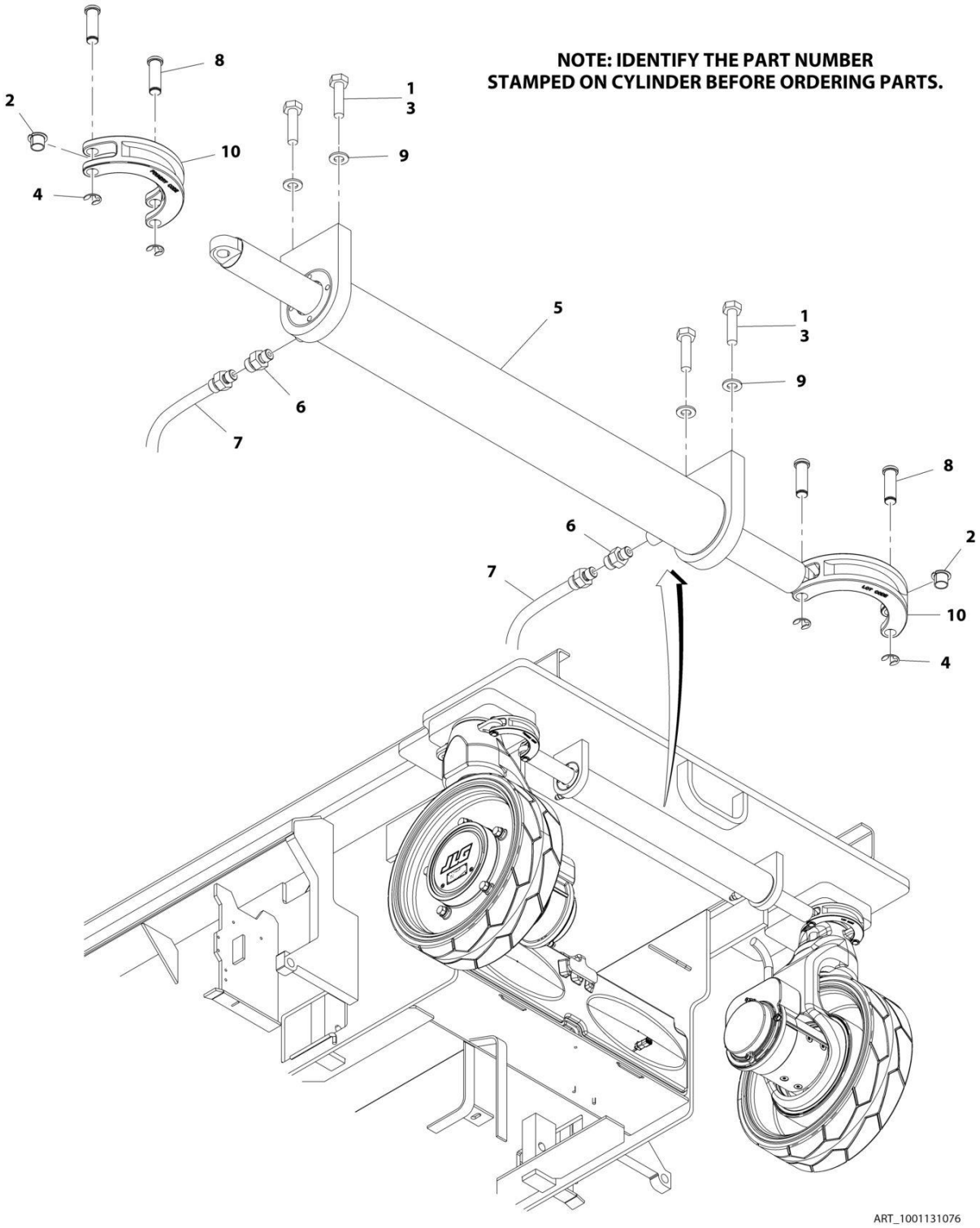


FIGURE 1-2. STEERING INSTALLATION (BELGIUM, CHINA AND MEXICO BUILT MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131076	Ref	STEERING INSTALLATION	E
1	0100011	AR	Compound, Locking	
2	0440259	2	Bearing	
3	0701016	4	Bolt M10 x 40	
4	1380153	4	Clip	
5	1001129268	1	Steer Cylinder Assembly (See Separate Breakdown in CYLINDER SECTION)	
6	2110404	2	Fitting, Straight ORFS/ORB	
7	0275883	2	Steering Hose Assembly	
8	3423037	4	Pin, Clevis	
9	4812000	4	Washer M10	
10	4846757	2	Lug, Steer	

FIGURE 1-3. DRIVE HUB AND MODULE INSTALLATION

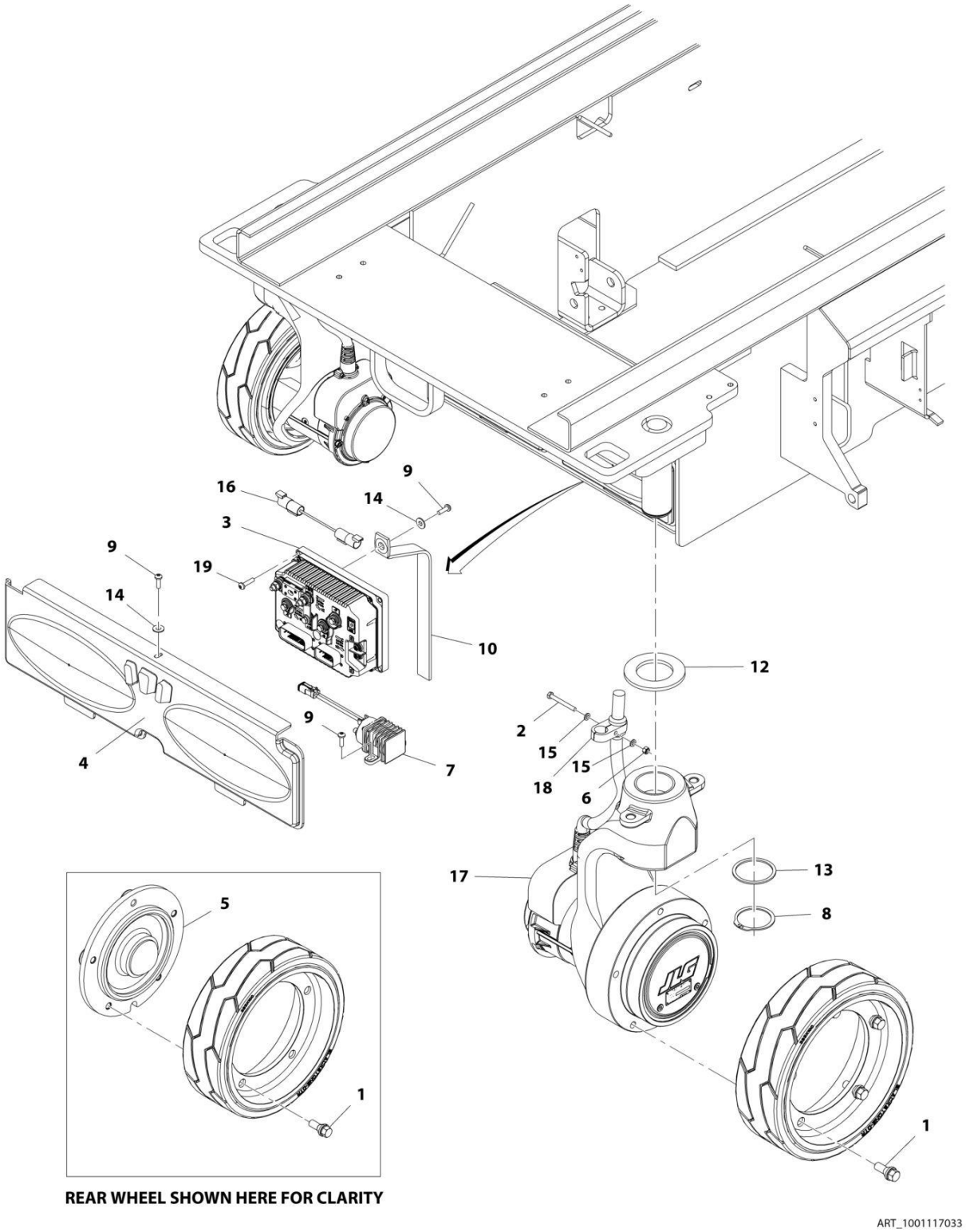


FIGURE 1-3. DRIVE HUB AND MODULE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001117033	Ref	DRIVE HUB AND MODULE INSTALLATION	C
1	0630580	20	Bolt, Wheel	
2	0700619	2	Bolt M6 x 55	
3	1001092456	1	Module, Control	
4	1671133	1	Cover, Controller	
5	2780266	2	Hub Assembly - Rear (See Separate Breakdown in this Section)	
6	3290605	2	Nut M6	
7	3740150	1	Relay	
8	3760463	2	Ring, Retaining	
9	4191708	4	Screw M6 x 20	
10	4240147	1	Strap, Anti-Static	
12	4740524	2	Washer, Thrust	
13	4740564	2	Washer	
14	4751400	2	Washer 1/4	
15	4811700	4	Washer M6	
16	4923602	1	Harness, Field Wire Connection (See Separate Breakdown in ELECTRICAL SECTION)	
17	1001092738	2	Drive Motor Assembly (See Separate Breakdown in this Section)	
18	1001094301	2	Clamp	
19	4191709	4	Screw M6 x 25	

FIGURE 1-4. DRIVE HUB AND MODULE INSTALLATION (BELGIUM BUILT MACHINES ONLY)

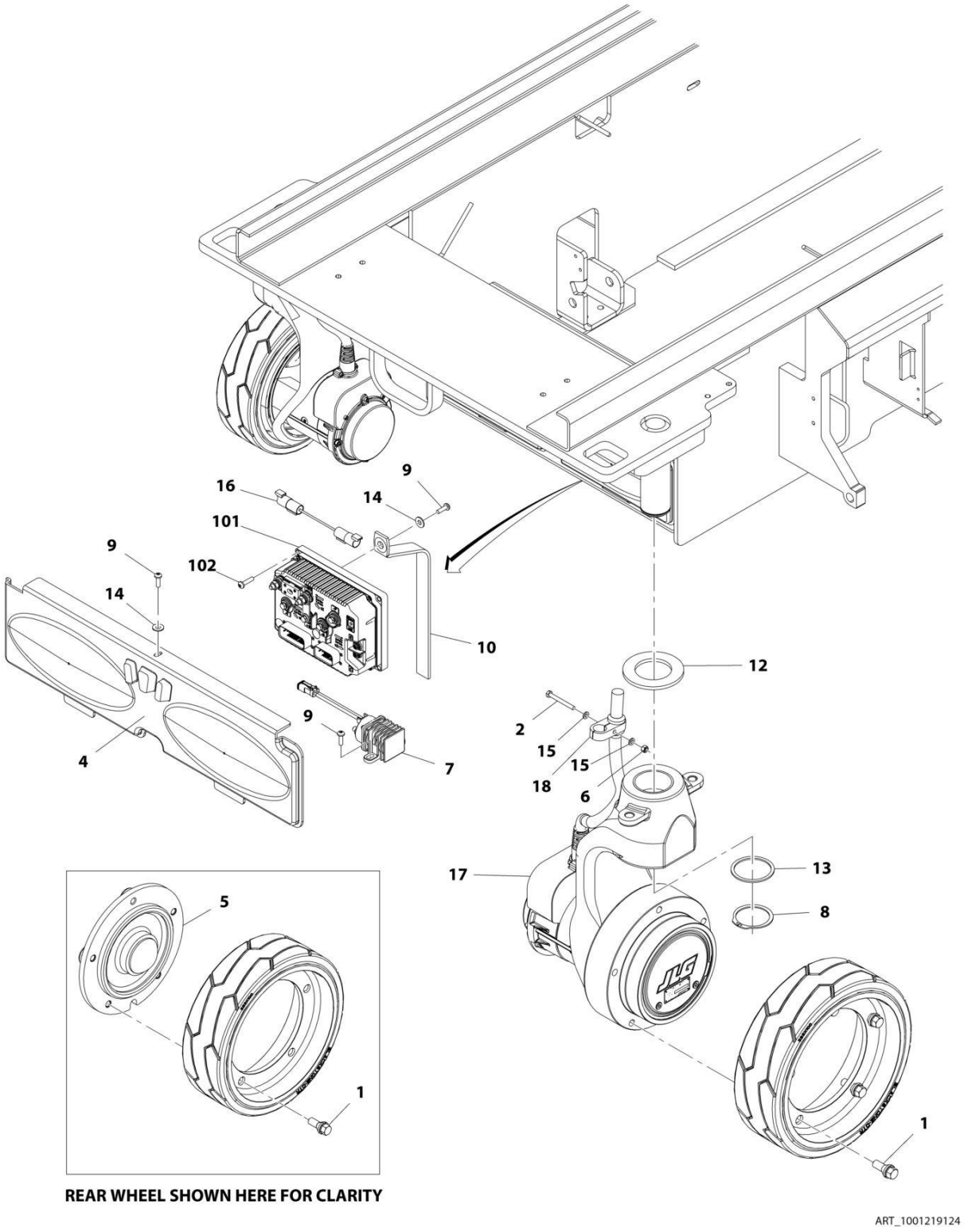
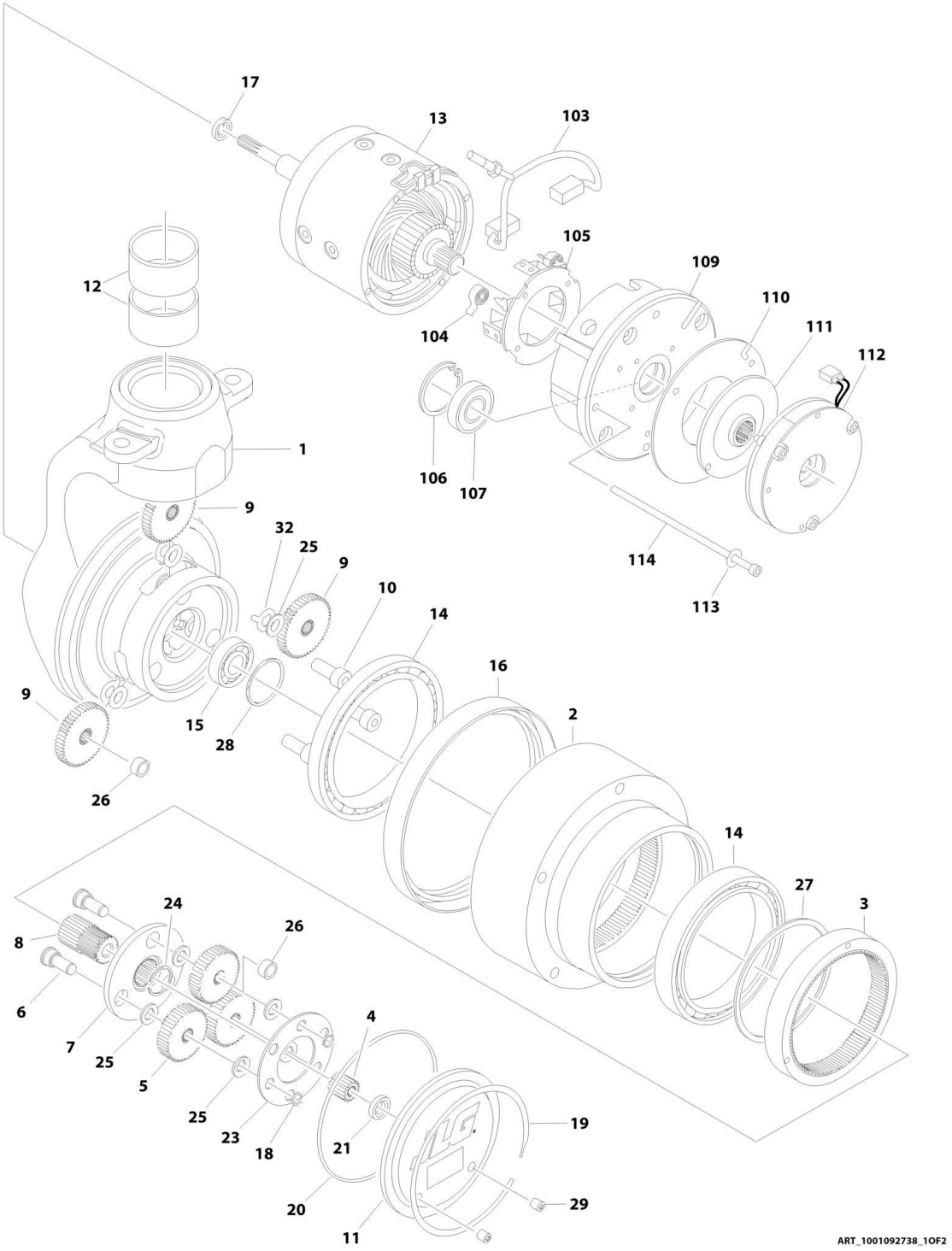


FIGURE 1-4. DRIVE HUB AND MODULE INSTALLATION (BELGIUM BUILT MACHINES ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219124	Ref	DRIVE HUB AND MODULE INSTALLATION	A
1	0630580	20	Bolt, Wheel	
2	0700619	2	Bolt M6 x 55	
4	1671133	1	Cover, Controller	
5	2780266	2	Hub Assembly - Rear (See Separate Breakdown in this Section)	
6	3290605	2	Nut M6	
7	3740150	1	Relay	
8	3760463	2	Ring, Retaining	
9	4191708	4	Screw M6 x 20	
10	4240147	1	Strap, Anti-Static	
12	4740524	2	Washer, Thrust	
13	4740564	2	Washer	
14	4751400	2	Washer 1/4	
15	4811700	4	Washer M6	
16	4923602	1	Harness, Field Wire Connection (See Separate Breakdown in ELECTRICAL SECTION)	
17	1001092738	2	Drive Motor Assembly (See Separate Breakdown in this Section)	
18	1001094301	2	Clamp	
		Ref	ADDITIONAL COMPONENTS ORDERED SEPARATE	
101	1001092456	1	Module, Control	
102	4191709	4	Screw M6 x 25	

FIGURE 1-5. DRIVE MOTOR/HUB ASSEMBLY



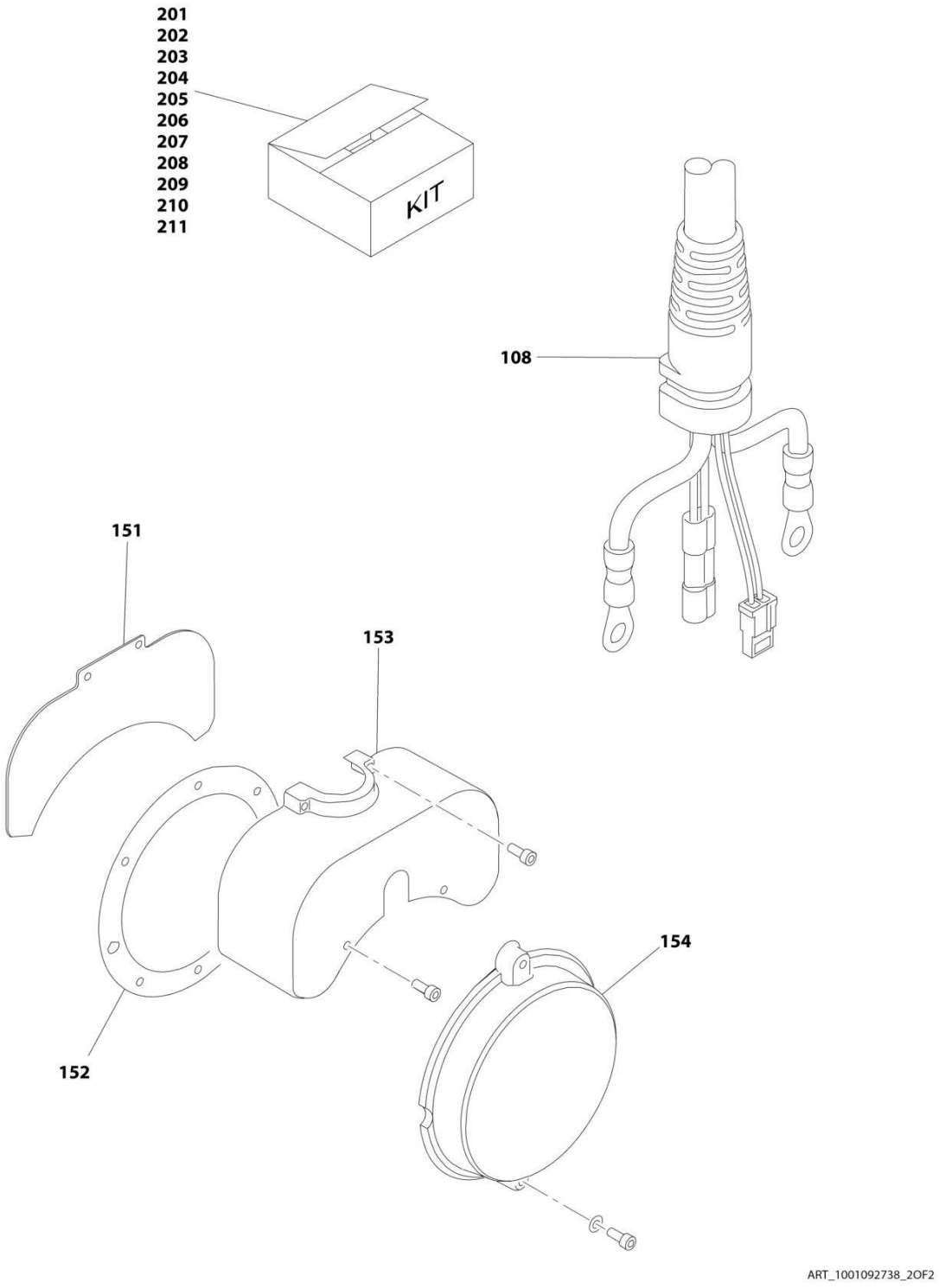

201
202
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211
KIT
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151
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154
152
ART_1001092738_2OF2

FIGURE 1-5. DRIVE MOTOR/HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001092738	Ref	DRIVE MOTOR/HUB ASSEMBLY	K
		Ref	HUB ASSEMBLY	
1	See Note	NSS	Spindle (Note: Purchase Complete Assembly)	
2	See Note	NSS	Hub (Note: Use Item 206)	
3	See Note	NSS	Ring, Input (Note: Use Item 204)	
4	See Note	NSS	Gear, Input Sun (Note: Use Item 203)	
5	See Note	NSS	Gear, Input Planet (Note: Use Item 203)	
6	See Note	NSS	Pin, Planet Gear (Note: Use Item 203)	
7	See Note	NSS	Carrier (Note: Use Item 203)	
8	See Note	NSS	Gear, Output Sun (Note: Use Item 203)	
9	See Note	NSS	Gear, Output Planet (Note: Use Item 207)	
10	See Note	NSS	Pin, Output Planet (Note: Use Item 207)	
11	See Note	NSS	Cover (Note: Use Item 201)	
12	7024757	1	Bushing Kit, Kingpin (Includes 2 Bushings)	
13	See Note	NSS	Motor, Electric (Note: Use Item 205)	
14	See Note	NSS	Bearing, Main (Note: Use Item 202, 204, 206 or 207)	
15	See Note	NSS	Bearing, Shaft (Note: Use Item 207)	
16	70001739	1	Seal, Lip	
17	7024786	1	Seal, Lip	
18	See Note	NSS	Ring, Retaining (Note: Use Item 203)	
19	See Note	NSS	Ring, Retaining (Note: Use Item 201)	
20	70000191	1	O-Ring	
21	See Note	NSS	Washer, Thrust (Note: Use Item 201)	
23	See Note	NSS	Plate, Thrust (Note: Use Item 203)	
24	See Note	NSS	Ring, Retaining (Note: Use Item 203)	
25	See Note	NSS	Washer, Thrust (Note: Use Item 203 or 207)	
26	See Note	NSS	Bushing (Note: Use Item 203 or 207)	
27	See Note	NSS	Ring, Retaining (Note: Use Item 204, 206 or 207)	
28	See Note	NSS	Ring, Retaining (Note: Use Item 207)	
29	See Note	NSS	Plug (Note: Use Item 201)	
32	See Note	NSS	Washer, Tanged (Note: Use Item 207)	
		Ref	BRAKE AND MOTOR COMPONENTS	
103	See Note	NSS	Brush and Terminal Assembly (Note: Use Item 208)	
104	70000790	2	Spring, Brush	
105	70000791	1	Box, Brush	
106	See Note	NSS	Ring, Retaining (Note: Use Item 208)	
107	See Note	NSS	Bearing (Note: Use Item 208)	
108	1001132439	1	Harness, Drive Motor (See Separate Breakdown in ELECTRICAL SECTION)	
109	70000792	1	Commutator	
110	See Note	NSS	Disc, Reaction (Note: Use Item 209)	
111	7024785	1	Disc, Friction	
112	See Note	NSS	Brake Assembly (Note: Use Item 209)	
113	See Note	NSS	Washer (Note: Use Item 210)	
114	See Note	NSS	Bolt (Note: Use Item 210)	
151	See Note	NSS	Plate, Cover (Note: Use Item 211)	
152	70001949	1	Gasket, Cover	
153	70006426	1	Cover, Top	
154	See Note	NSS	Cover, End (Note: Use Item 211)	
		Ref	KIT OPTIONS	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	7024747	1	Cover Kit (Includes Items 11, 19, 20, 21 & 29)	
202	7024748	1	Main Seal Kit (Includes Qty 1 of Items 14, 16 & 20)	
203	7024749	1	Input Carrier Kit (Includes Items 4-8, 18, 20 & 23-26)	
204	7024758	1	Input Ring Kit (Includes Items 3, 20, 27 & Qty 1 of Item 14)	
205	70001345	1	Motor Kit (Includes Items 13,17,103-114,151, 152 & 154)	
206	7024756	1	Hub Kit (Includes Items 2, 16, 20, 27 & Qty 1 of Item 14)	
207	7024750	1	Output Planet Kit (Includes Items 9, 10, 15, 20, 25-28, 32 & Qty 1 of Item 14)	
208	7024771	1	Motor Brush and Bearing Kit (Includes Items 103, 106 & 107)	
208	70007781	1	Brush Kit (Brushes Only)	
209	7024772	1	Brake Kit (Includes Items 110, 111 & 112)	
210	7024776	1	Motor Hardware Kit (Includes Items 113 & 114)	
211	70001265	1	Brake Cover Kit (Includes Items 151-154 & Hardware)	

FIGURE 1-6. HUB ASSEMBLY - REAR

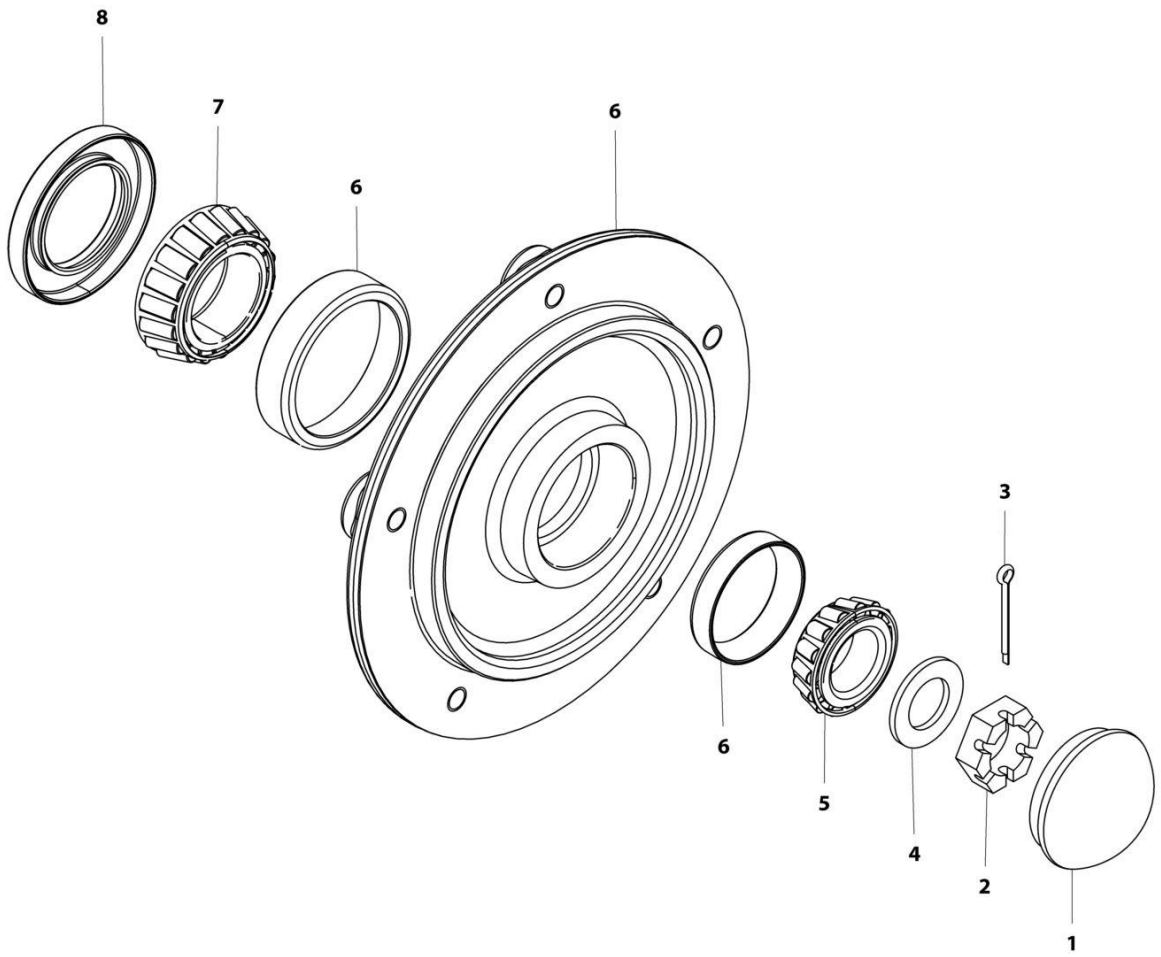


FIGURE 1-6. HUB ASSEMBLY - REAR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780266	Ref	HUB ASSEMBLY - REAR	E
1	1001102354	1	Cap, Dust (was p/n 7012524)	
2	3300423	1	Nut, Slotted (was p/n 7010641)	
3	3450406	1	Pin, Cotter 2 x 3/16 (was p/n 7010642)	
4	4740468	1	Washer (was p/n 7019697)	
5	1001102351	1	Bearing, Cone - Outer (was p/n 7026185)	
6	See Note	NSS	Hub (Note: Purchase Complete Assembly p/n 2780266)	
7	1001102353	1	Bearing, Cone - Inner (was p/n 7026183)	
8	1001102349	1	Seal (was p/n 7026184)	

FIGURE 1-7. TIRE AND WHEEL ASSEMBLY

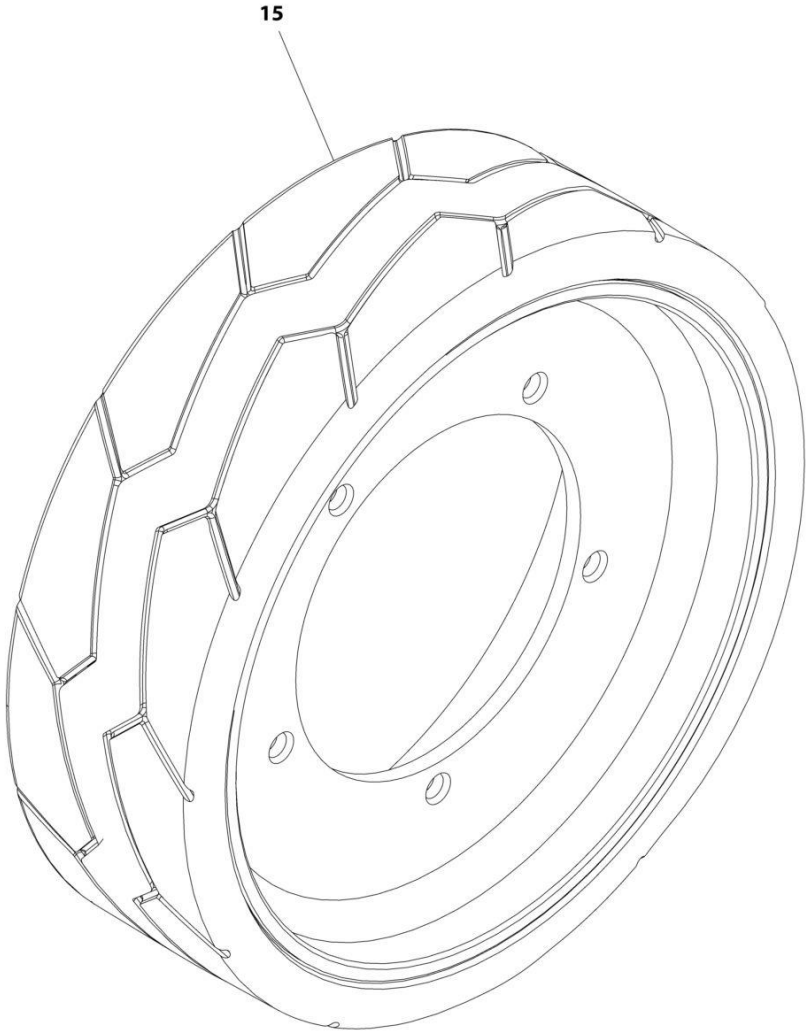


FIGURE 1-7. TIRE AND WHEEL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TIRE AND WHEEL ASSEMBLY	
		Ref	NOTE: MUST REPLACE TIRE AND WHEEL ASSEMBLIES IN PAIRS PER AXLE.	
15	1001114466	4	Tire and Wheel Assembly - Non-Marking	
	2915013	4	Tire and Wheel Kit (Includes Tire, Wheel and Bolts)	

FIGURE 1-8. POTHOLE PROTECTION INSTALLATION - NON-UL

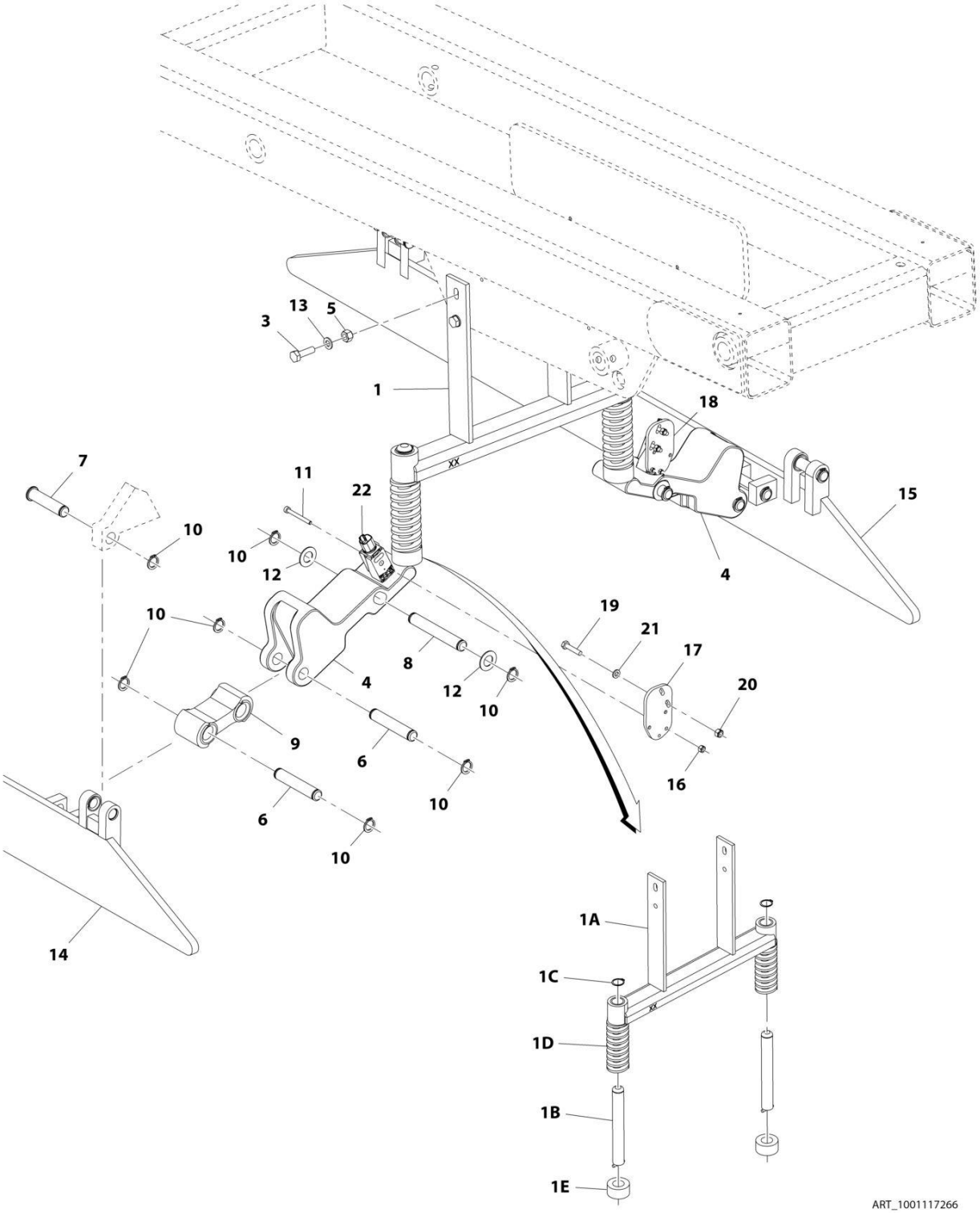


FIGURE 1-8. POTHOLE PROTECTION INSTALLATION - NON-UL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001117266	Ref	POTHOLE PROTECTION INSTALLATION - NON-UL	B
1	0060092	1	Actuator Assembly (Includes Items 1A-1E)	F
1A	0060093	1	Bracket, Actuator	
1B	3423289	2	Pin	
1C	3760115	2	Ring, Retaining	
1D	4160202	2	Spring	
1E	4220293	2	Pad	
3	0701015	4	Bolt M10 x 35	
4	3010158	2	Link	
5	3291005	4	Nut M10 x 1.5	
6	3423045	4	Pin, Pivot	
7	3423189	4	Pin, Pivot	
8	3423267	2	Pin	
9	3574176	2	Plate, Link	
10	3760348	16	Ring, Retaining	
11	4031512	4	Capscrew M4 x 40	
12	4740086	4	Washer, Thrust	
13	4812000	4	Washer M10	
14	4846811	1	Weld, Pothole Support (RH)	
15	4846862	1	Weld, Pothole Support (LH)	
16	3290405	4	Nut M4	
17	1001109232	1	Plate, Mounting	
18	1001109233	1	Plate, Mounting	
19	0700614	4	Bolt M6 x 30	
20	3290605	4	Nut M6	
21	4811700	4	Washer M6	
22	1001109088	2	Switch, Limit	

FIGURE 1-9. POTHOLE PROTECTION INSTALLATION - UL

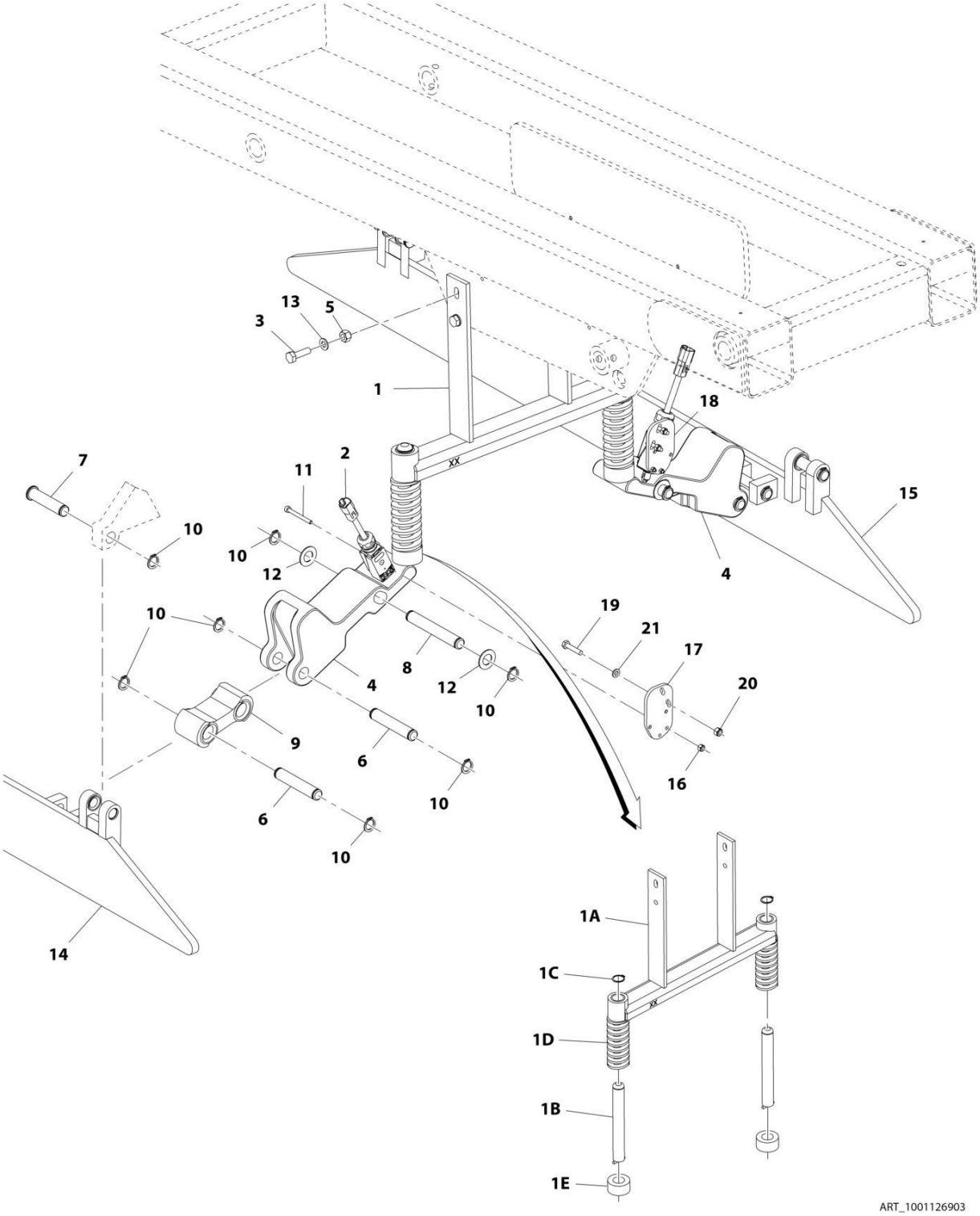


FIGURE 1-9. POTHOLE PROTECTION INSTALLATION - UL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001126903	Ref	POTHOLE PROTECTION INSTALLATION - UL	B
1	0060092	1	Actuator Assembly (Includes Items 1A-1E)	F
1A	0060093	1	Bracket, Actuator	
1B	3423289	2	Pin	
1C	3760115	2	Ring, Retaining	
1D	4160202	2	Spring	
1E	4220293	2	Pad	
2	1001126905	2	Switch, Limit	
3	0701015	4	Bolt M10 x 35	
4	3010158	2	Link	
5	3291005	4	Nut M10	
6	3423045	4	Pin, Pivot	
7	3423189	4	Pin, Pivot	
8	3423267	2	Pin	
9	3574176	2	Plate, Link	
10	3760348	16	Ring, Retaining	
11	4031512	4	Capscrew M4 x 40	
12	4740086	4	Washer, Thrust	
13	4812000	4	Washer M10	
14	4846811	1	Weld, Pothole Support (RH)	
15	4846862	1	Weld, Pothole Support (LH)	
16	3290405	4	Nut M4	
17	1001109232	1	Plate, Mounting	
18	1001109233	1	Plate, Mounting	
19	0700614	4	Bolt M6 x 30	
20	3290605	4	Nut M6	
21	4811700	4	Washer M6	

FIGURE 1-10. BATTERY CHARGER INSTALLATION WITH 110V PLUG AND DELTA-Q CHARGER (ANSI, ANSI EXPORT, CSA, JAPANESE AND UL SPECS)

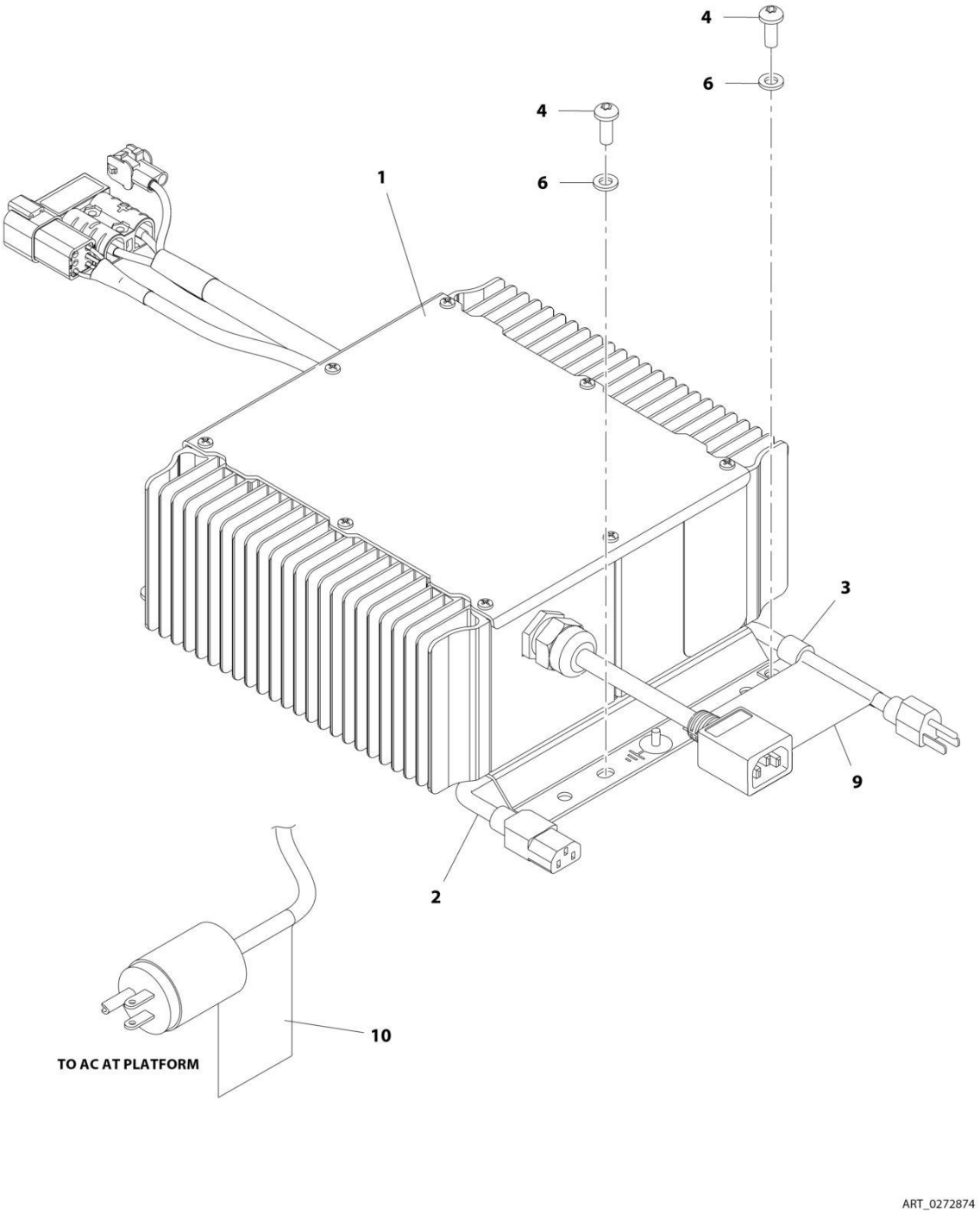


FIGURE 1-10. BATTERY CHARGER INSTALLATION WITH 110V PLUG AND DELTA-Q CHARGER (ANSI, ANSI EXPORT, CSA, JAPANESE AND UL SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272874	Ref	BATTERY CHARGER INSTALLATION WITH 110V PLUG AND DELTA-Q CHARGER (ANSI, ANSI EXPORT, CSA, JAPANESE AND UL SPECS)	N
1	1001112111	1	Battery Charger Assembly (See BATTERY CHARGER ASSEMBLY - DELTA-Q for Breakdown)	
2	1001103257	1	Cable, Charger (AC Input)	
3	1321293	1	Clamp	
4	4191707	2	Screw M6 x 16	
6	4811700	2	Washer M6	
9	1001102489	1	Decal - Charger Plug **(SN 0200239382 through 0200257822, SN B200020297 through B200037370, SN M200000100 through M200002934)**	
9	1001215870	1	Decal - Charger Plug **(SN 0200257823 to Present, SN B200037371 to Present, SN M200002935 through M200039292)**	
10	1001102258	1	Decal - AC to Platform	
11	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal) **(SN 0200266434 to Present, SN B200045240 to Present, SN M200014363 through M200039292)**	

FIGURE 1-11. BATTERY CHARGER INSTALLATION WITH 110V PLUG AND EAGLE PERFORMANCE CHARGER (ANSI AND CSA SPECS)

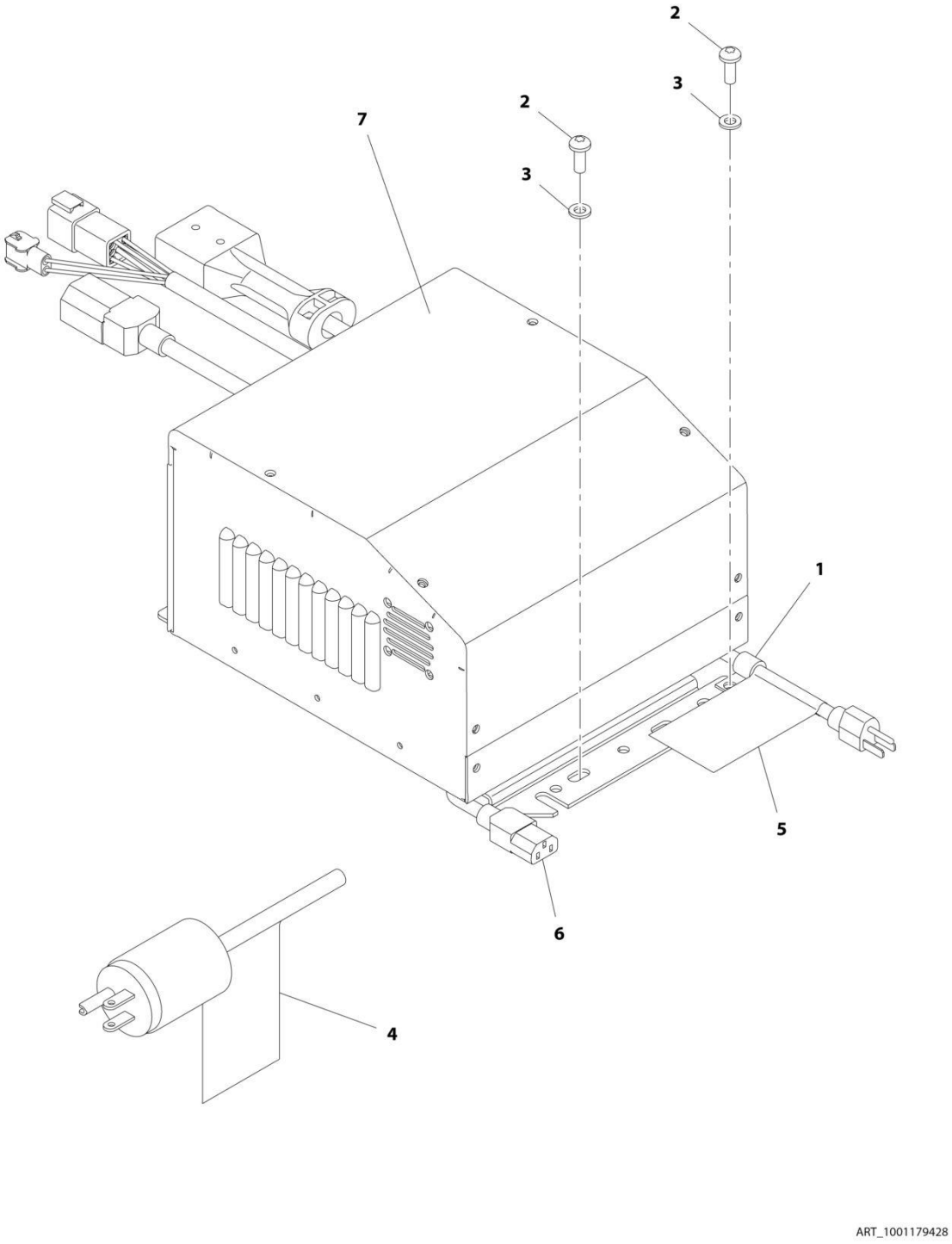


FIGURE 1-11. BATTERY CHARGER INSTALLATION WITH 110V PLUG AND EAGLE PERFORMANCE CHARGER (ANSI AND CSA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179428	Ref	BATTERY CHARGER INSTALLATION WITH 110V PLUG AND EAGLE PERFORMANCE CHARGER	A
1	1321293	1	Clamp	
2	4191707	2	Screw M6 x 16	
3	4811700	2	Washer M6	
4	1001102258	1	Decal - AC to Platform	
5	1001102489	1	Decal - Charger Plug	
6	1001103257	1	Cable, Charger (AC Input)	
7	1001177842	1	Battery Charger Assembly (See Separate Breakdown in this Section)	

FIGURE 1-12. BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG AND DELTA-Q CHARGER (ANSI, ANSI EXPORT, CSA AND CE SPECS)

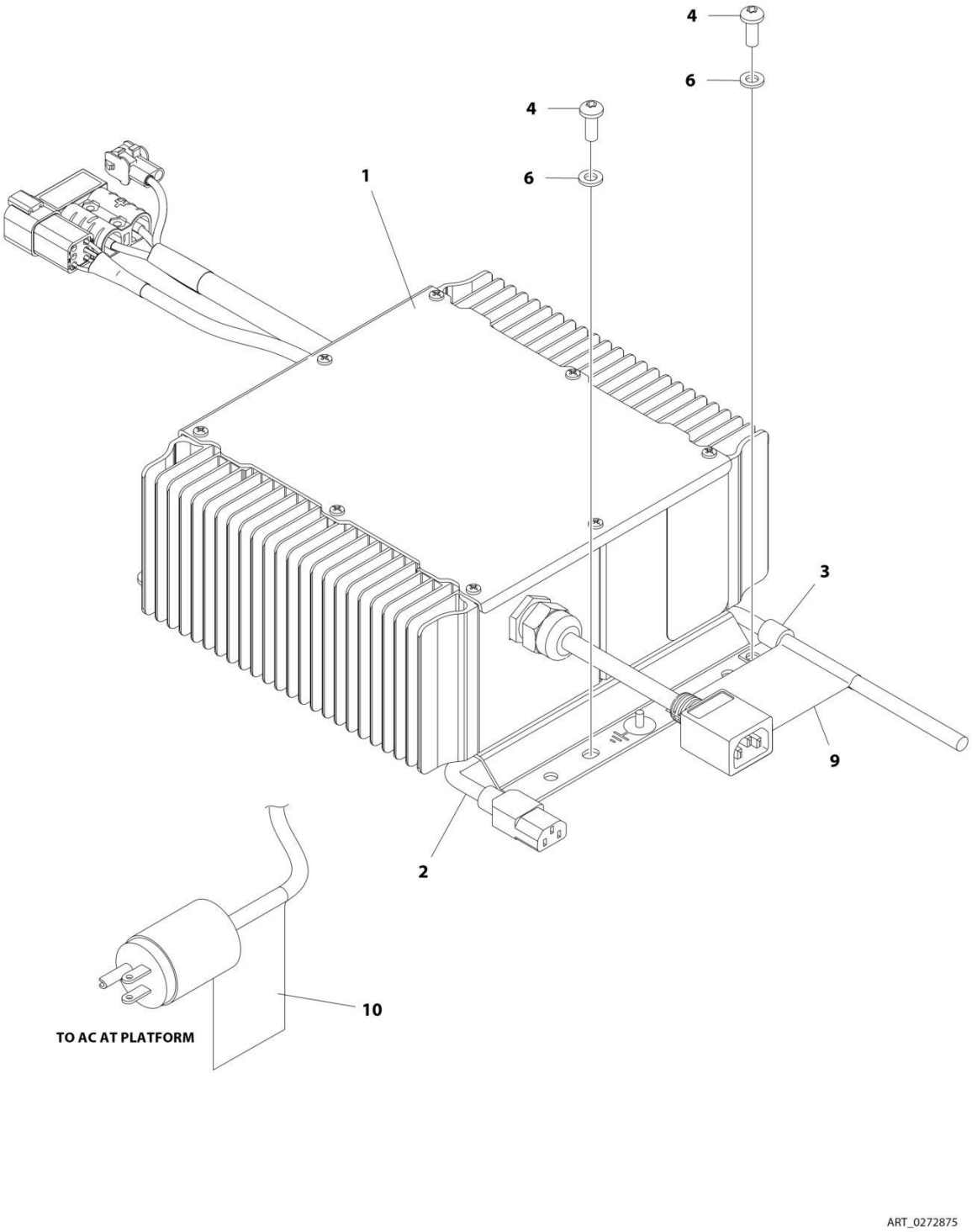


FIGURE 1-12. BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG AND DELTA-Q CHARGER (ANSI, ANSI EXPORT, CSA AND CE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272875	Ref	BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG AND DELTA-Q CHARGER (ANSI, ANSI EXPORT, CSA AND CE SPECS)	N
1	1001112111	1	Battery Charger Assembly (See BATTERY CHARGER ASSEMBLY - DELTA-Q for Breakdown)	
2	1001103258	1	Cable, Charger (AC Input)	
3	1320136	1	Clamp (USA Built Machines)	
3	1321293	1	Clamp	
4	4191707	2	Screw M6 x 16	
6	4811700	2	Washer M6	
9	1001102489	1	Decal - Charger Plug **(SN 0200239382 through 0200257822, SN B200020297 through B200037370, SN M200000100 through M200002934)**	
9	1001215870	1	Decal - Charger Plug **(SN 0200257823 to Present, SN B200037371 to Present, SN 1200025021 to Present, SN M200002835 through M200039289)**	
10	1001102258	1	Decal - AC to Platform	
11	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal) **(SN 0200266434 to Present, SN 1200026952 to Present, SN B200045240 to Present, SN M200014363 through M200039289)**	

FIGURE 1-13. BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG AND EAGLE PERFORMANCE CHARGER (ANSI AND CSA SPECS)

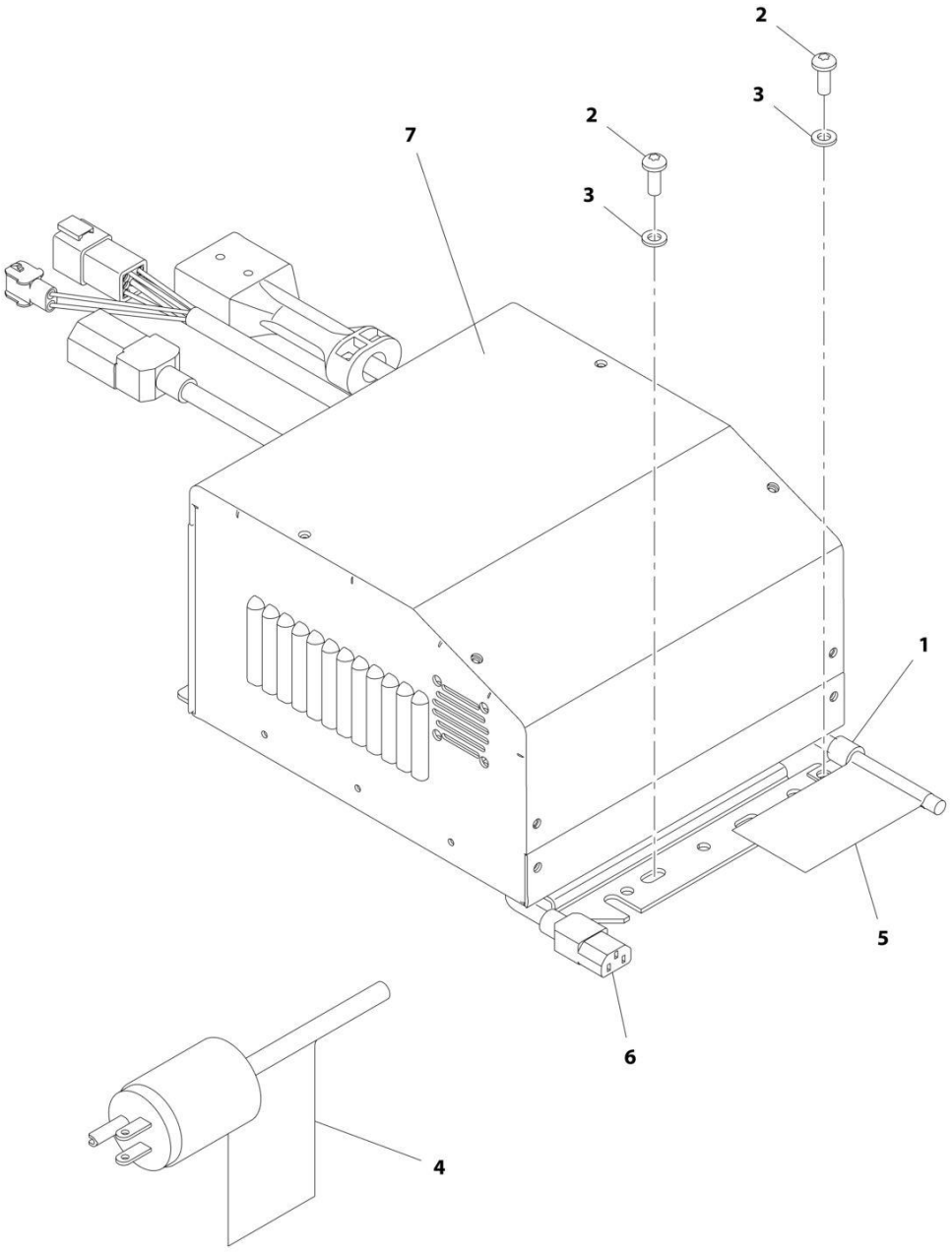


FIGURE 1-13. BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG AND EAGLE PERFORMANCE CHARGER (ANSI AND CSA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180312	Ref	BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG AND EAGLE PERFORMANCE CHARGER	A
1	1320136	1	Clamp	
2	4191707	2	Screw M6 x 16	
3	4811700	2	Washer M6	
4	1001102258	1	Decal - AC to Platform	
5	1001102489	1	Decal - Charger Plug	
6	1001103258	1	Cable, Charger (AC Input)	
7	1001177842	1	Battery Charger Assembly (See Separate Breakdown in this Section)	

FIGURE 1-14. BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG (AUSTRALIAN SPEC)

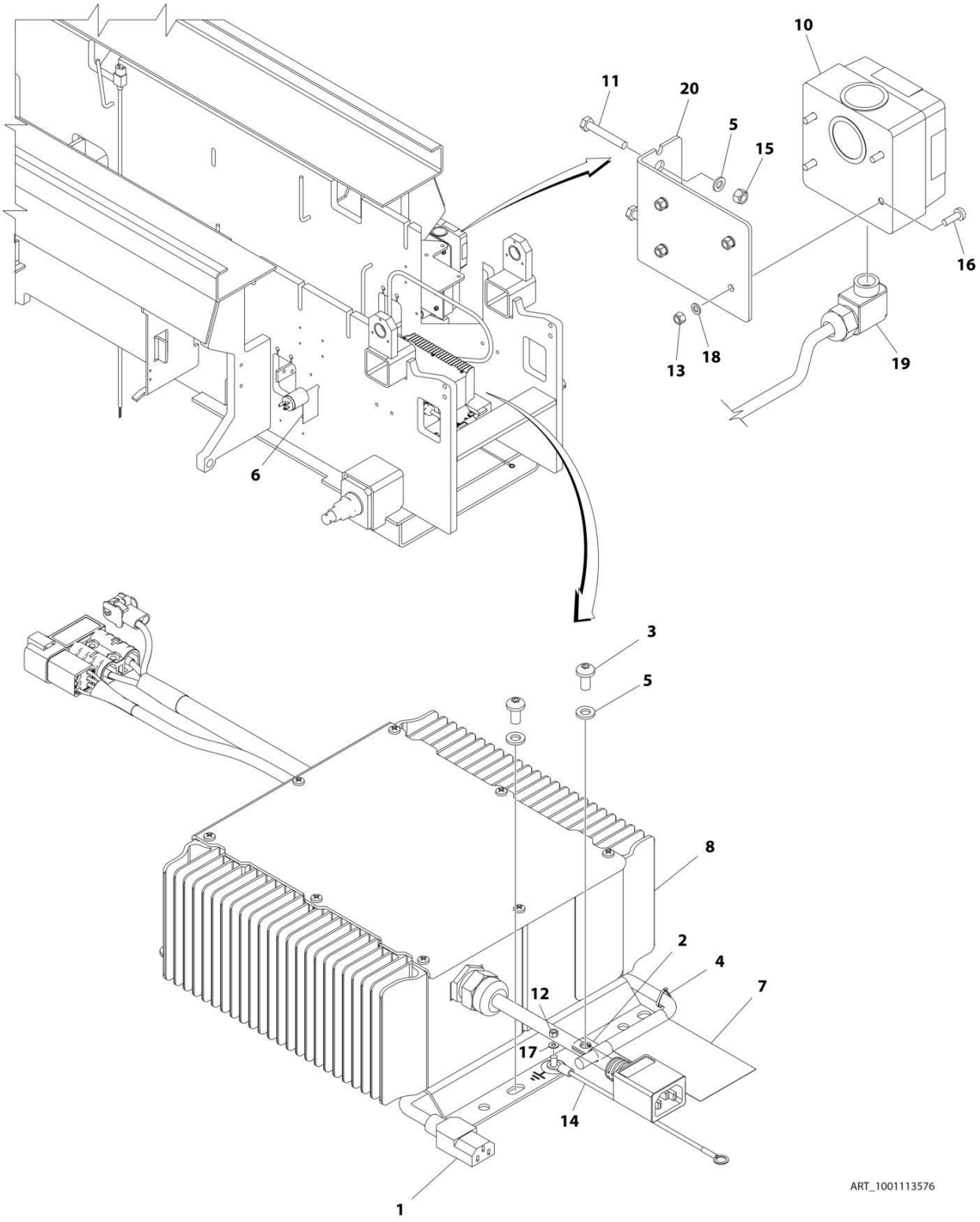


FIGURE 1-14. BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG (AUSTRALIAN SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001113576	Ref	BATTERY CHARGER INSTALLATION WITH LOCALLY SUPPLIED PLUG (AUSTRALIAN SPEC)	G
1	1060689	1	Cable, Charger (AC Input)	
2	1320136	1	Clamp (USA Built Machines)	
2	1321293	1	Clamp	
3	4191707	2	Screw M6 x 16	
4	4240033	2	Tie-Strap	
5	4811700	AR	Washer M6	
6	1001102258	1	Decal - AC to Platform	
7	1001102489	1	Decal - Charger Plug **(SN 0200239382 through 0200257822, SN B200020297 through B200037370, SN M200000100 through M200002934)**	
7	1001215870	1	Decal - Charger Plug **(SN 0200257823 to Present, SN B200037371 to Present, SN M200002935 through M200039292)**	
8	1001112111	1	Battery Charger Assembly (See BATTERY CHARGER ASSEMBLY - DELTA-Q for Breakdown)	
9	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal) **(SN 0200266434 to Present, SN B200045240 to Present, SN M200014363 through M200039292)**	
10	1001227267	1	Electric Assembly **(SN B200053359 to Present, SN M200022372 through M200039292)**	
11	0700616	4	Bolt M6 x 40	
12	3290405	1	Nut M4	
13	3290505	8	Nut M5	
14	1001227219	1	Earth/Ground Harness **(SN B200053359 to Present, SN M200022372 through M200039292)**	
15	3290605	4	Nut M6	
16	3900381	8	Screw M5 x 16	
17	4811400	1	Washer M4	
18	4831600	8	Washer M5	
19	1001103471	1	Connector, Strain Relief **(SN B200053359 to Present, SN M200022372 through M200039292)**	
20	1001227213	1	Bracket **(SN B200053359 to Present, SN M200022372 through M200039292)**	

FIGURE 1-15. BATTERY CHARGER INSTALLATION – WITH VOLTAGE GUARD (LOCALLY SUPPLIED PLUG) (ANSI EXPORT AND KOREA SPECS)

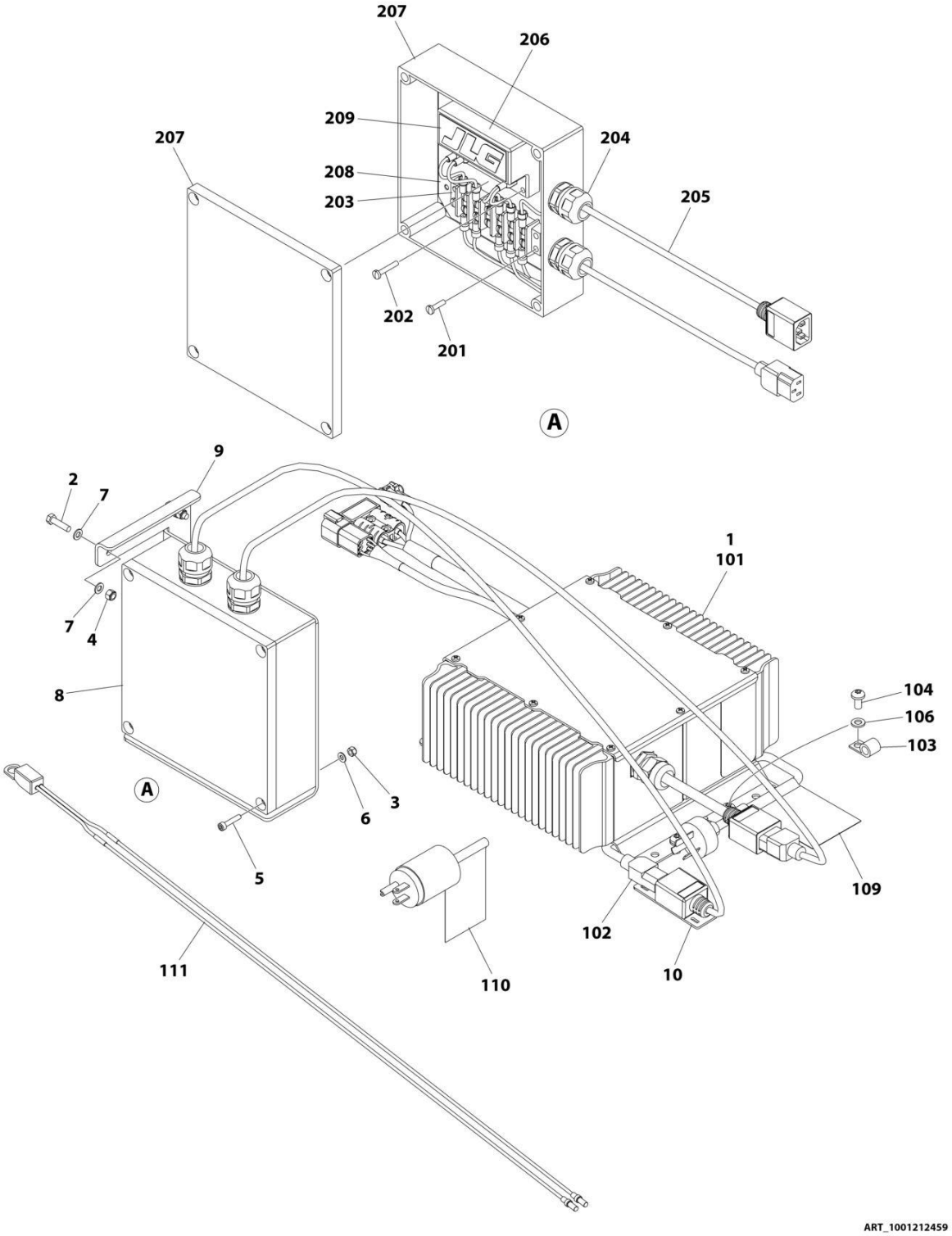


FIGURE 1-15. BATTERY CHARGER INSTALLATION – WITH VOLTAGE GUARD (LOCALLY SUPPLIED PLUG) (ANSI EXPORT AND KOREA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212459	Ref	BATTERY CHARGER INSTALLATION - WITH VOLTAGE GUARD (LOCALLY SUPPIED PLUG)	B
1	0272875	1	Charger Installation (See Items 101-111)	
2	0700510	2	Bolt M5 x 20	
3	3290405	4	Nut M4	
4	3290505	2	Nut M5	
5	4031510	4	Screw M4 x 30	
6	4811400	4	Washer M4	
7	4811600	4	Washer M5	
8	1001185306	1	Voltage Guard Installation (See Items 201-209)	
9	1001185830	1	Bracket	
10	1001215326	1	Support	
11	4240017	2	Tie Strap (Not Shown)	
	0272875	Ref	CHARGER INSTALLATION	N
101	1001112111	1	Battery Charger Assembly (See Separate Breakdown in this Section)	
102	1001103258	1	Cable, Charger (AC Input)	
103	1320136	1	Clamp (USA Built Machines)	
103	1321293	1	Clamp	
104	4191707	2	Screw M6 x 16	
106	4811700	2	Washer M6	
109	1001215870	1	Decal - Charger Plug	
110	1001102258	1	Decal - AC to Platform	
111	1001112113	1	Sensor, Temperature	
	1001185306	Ref	VOLTAGE GUARD INSTALLATION	C
201	4010408	2	Screw M4 x 16	
202	4010412	2	Screw M4 x 24	
203	4460007	1	Bus Bar	
204	4460968	2	Connector Strain Relief	
205	1001184947	1	Harness	
206	1001185156	1	Voltage Guard	
207	1001186497	1	Box	
208	1001187101	1	Plate	
209	1001187530	1	Decal - JLG	

FIGURE 1-16. BATTERY CHARGER INSTALLATION – WITH VOLTAGE GUARD AND CHINESE PLUG (ANSI EXPORT AND KOREA SPECS)

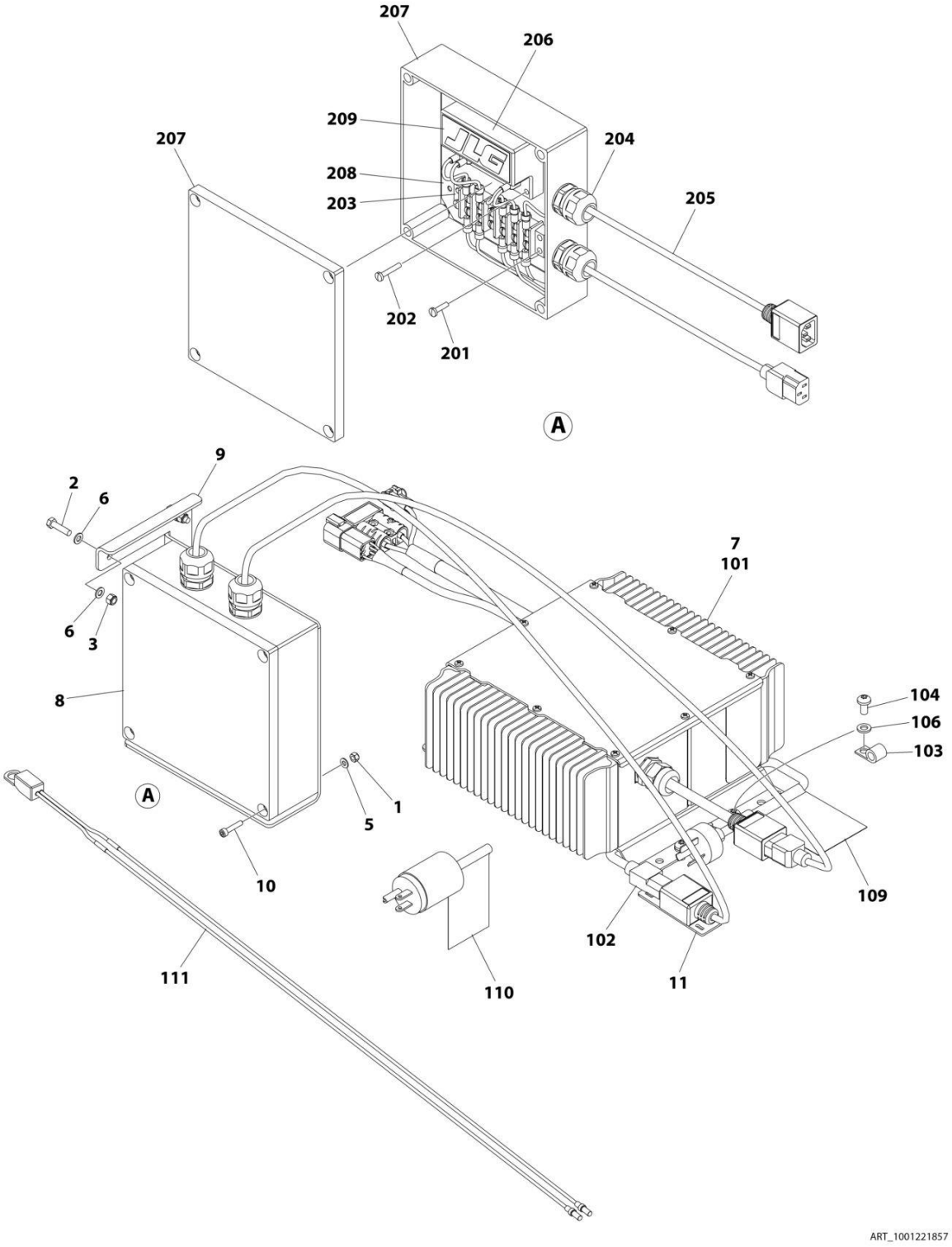


FIGURE 1-16. BATTERY CHARGER INSTALLATION – WITH VOLTAGE GUARD AND CHINESE PLUG (ANSI EXPORT AND KOREA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221857	Ref	BATTERY CHARGER INSTALLATION - WITH VOLTAGE GUARD AND CHINESE PLUG	A
1	3290405	4	Nut M4	
2	0700510	2	Bolt M5 x 20	
3	3290505	2	Nut M5	
5	4811400	4	Washer M4	
6	4811600	4	Washer M5	
7	1001172008	1	Charger Installation (See Items 101-111)	
8	1001185306	1	Voltage Guard Installation (See Items 201-209)	
9	1001185830	1	Bracket	
10	4031510	4	Screw M4 x 30	
11	1001215326	1	Support	
12	4240017	2	Tie Strap (Not Shown)	
	1001172008	Ref	CHARGER INSTALLATION	E
101	1001112111	1	Battery Charger Assembly (See Separate Breakdown in this Section)	
102	1001172010	1	Cable, Charger (AC Input)	
103	1321293	1	Clamp	
104	4191707	2	Screw M6 x 16	
106	4811700	2	Washer M6	
109	1001215870	1	Decal - Charger Plug	
110	1001102258	1	Decal - AC to Platform	
111	1001112113	1	Sensor, Temperature	
	1001185306	Ref	VOLTAGE GUARD INSTALLATION	C
201	4010408	2	Screw M4 x 16	
202	4010412	2	Screw M4 x 24	
203	4460007	1	Bus Bar	
204	4460968	2	Connector Strain Relief	
205	1001184947	1	Harness	
206	1001185156	1	Voltage Guard	
207	1001186497	1	Box	
208	1001187101	1	Plate	
209	1001187530	1	Decal - JLG	

FIGURE 1-17. BATTERY CHARGER INSTALLATION – WITH VOLTAGE GUARD AND CHINESE PLUG (CHINESE SPECS) (SN M200000100 through B200046724)

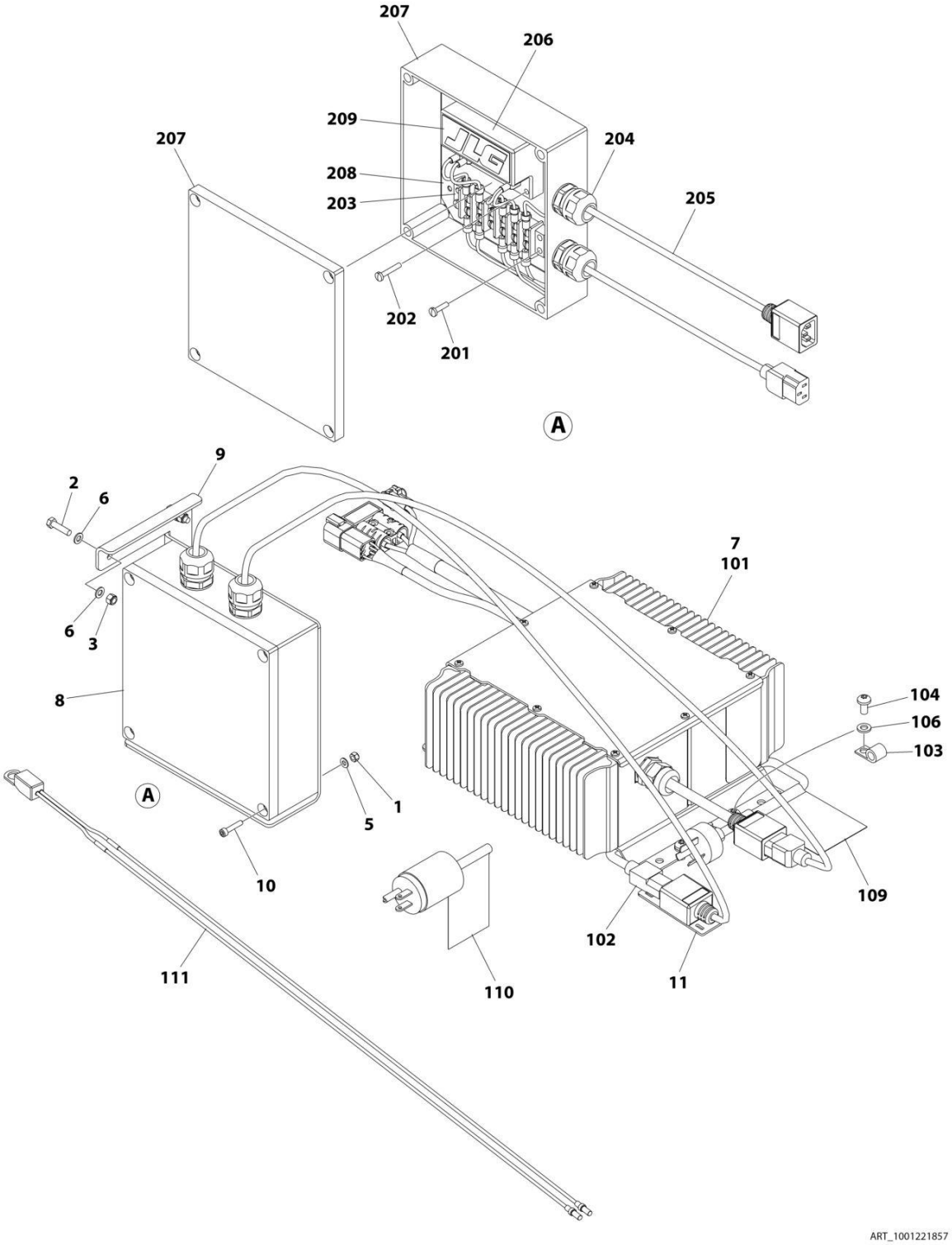


FIGURE 1-17. BATTERY CHARGER INSTALLATION – WITH VOLTAGE GUARD AND CHINESE PLUG (CHINESE SPECS) (SN M200000100 through B200046724)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221857	Ref	BATTERY CHARGER INSTALLATION - WITH VOLTAGE GUARD AND CHINESE PLUG	A
1	3290405	4	Nut M4	
2	0700510	2	Bolt M5 x 20	
3	3290505	2	Nut M5	
5	4811400	4	Washer M4	
6	4811600	4	Washer M5	
7	1001172008	1	Charger Installation (See Items 101-111)	
8	1001185306	1	Voltage Guard Installation (See Items 201-209)	
9	1001185830	1	Bracket	
10	4031510	4	Screw M4 x 30	
11	1001215326	1	Support	
12	4240017	2	Tie Strap (Not Shown)	
	1001172008	Ref	CHARGER INSTALLATION	E
101	1001112111	1	Battery Charger Assembly (See Separate Breakdown in this Section)	
102	1001172010	1	Cable, Charger (AC Input)	
103	1321293	1	Clamp	
104	4191707	2	Screw M6 x 16	
106	4811700	2	Washer M6	
109	1001215870	1	Decal - Charger Plug	
110	1001102258	1	Decal - AC to Platform	
111	1001112113	1	Sensor, Temperature	
	1001185306	Ref	VOLTAGE GUARD INSTALLATION	C
201	4010408	2	Screw M4 x 16	
202	4010412	2	Screw M4 x 24	
203	4460007	1	Bus Bar	
204	4460968	2	Connector Strain Relief	
205	1001184947	1	Harness	
206	1001185156	1	Voltage Guard	
207	1001186497	1	Box	
208	1001187101	1	Plate	
209	1001187530	1	Decal - JLG	

FIGURE 1-18. BATTERY CHARGER INSTALLATION WITH CHINESE PLUG (CHINESE SPEC)

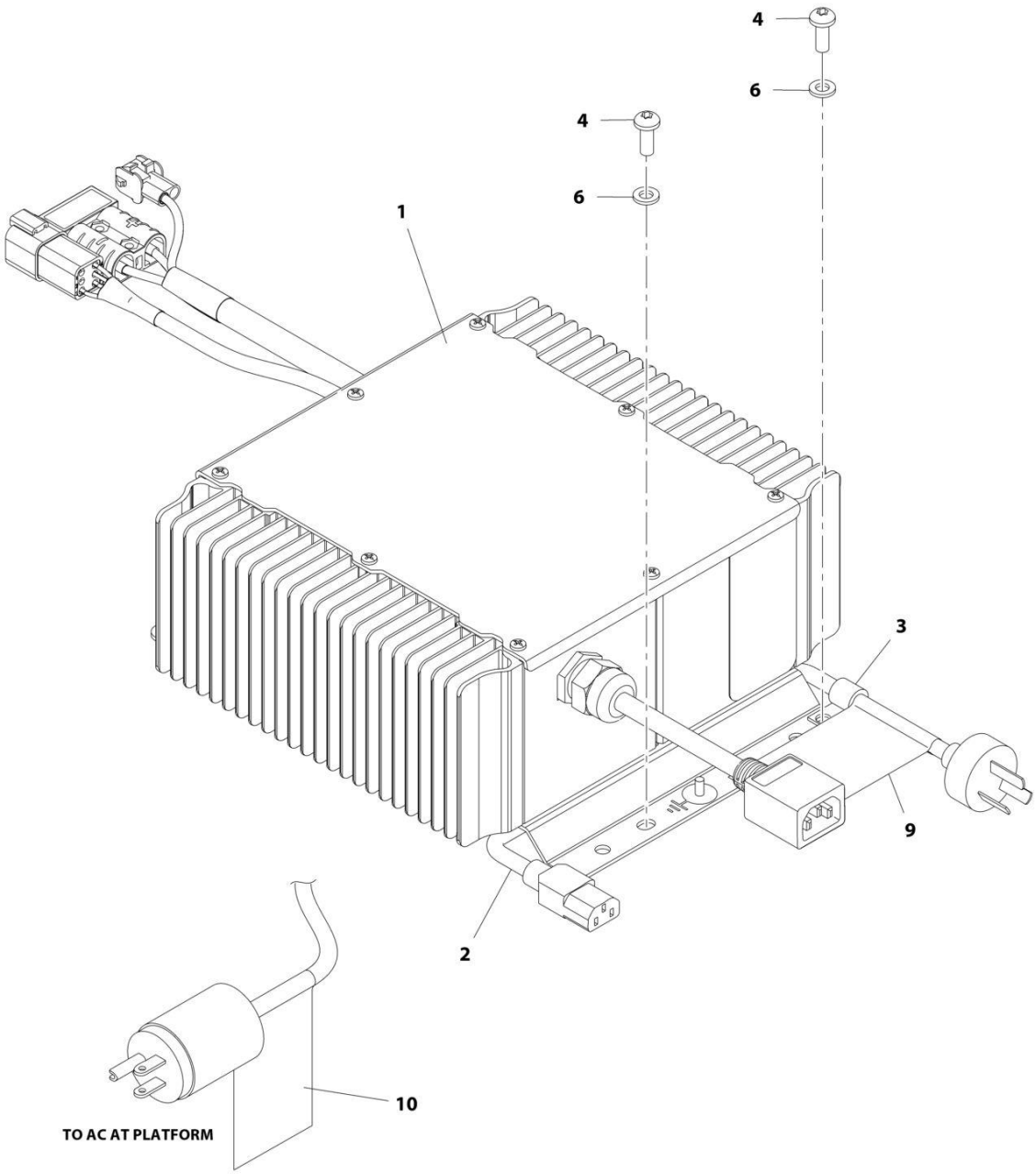


FIGURE 1-18. BATTERY CHARGER INSTALLATION WITH CHINESE PLUG (CHINESE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001172008	Ref	BATTERY CHARGER INSTALLATION WITH CHINESE PLUG (CHINESE SPEC)	E
1	1001112111	1	Battery Charger Assembly (See BATTERY CHARGER ASSEMBLY - DELTA-Q for Breakdown)	
2	1001172010	1	Cable, Charger (AC Input)	
3	1321293	1	Clamp	
4	4191707	2	Screw M6 x 16	
6	4811700	2	Washer M6	
9	1001102489	1	Decal - Charger Plug **(SN 0200239382 through 0200257822, SN B200020297 through B200037370, SN M200000100 through M200002934)**	
9	1001215870	1	Decal - Charger Plug **(SN 0200257823 to Present, SN M200002935 through M200039292)**	
10	1001102258	1	Decal - AC to Platform	
11	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal) **(SN 0200266434 to Present, SN 1200026952 to Present, SN B200045240 to Present, SN M200014363 through M200039292)**	

FIGURE 1-19. BATTERY CHARGER ASSEMBLY - DELTA-Q

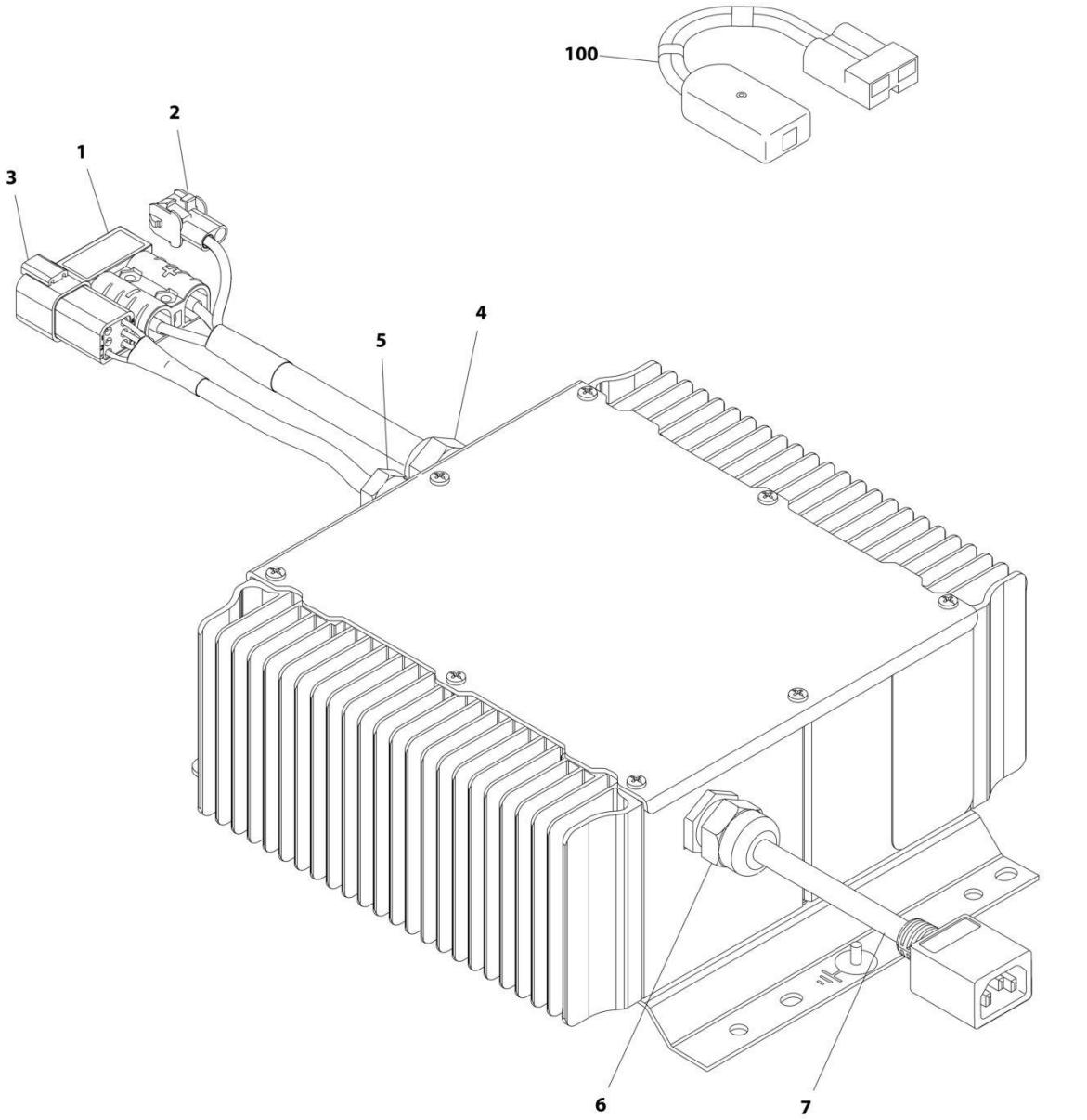
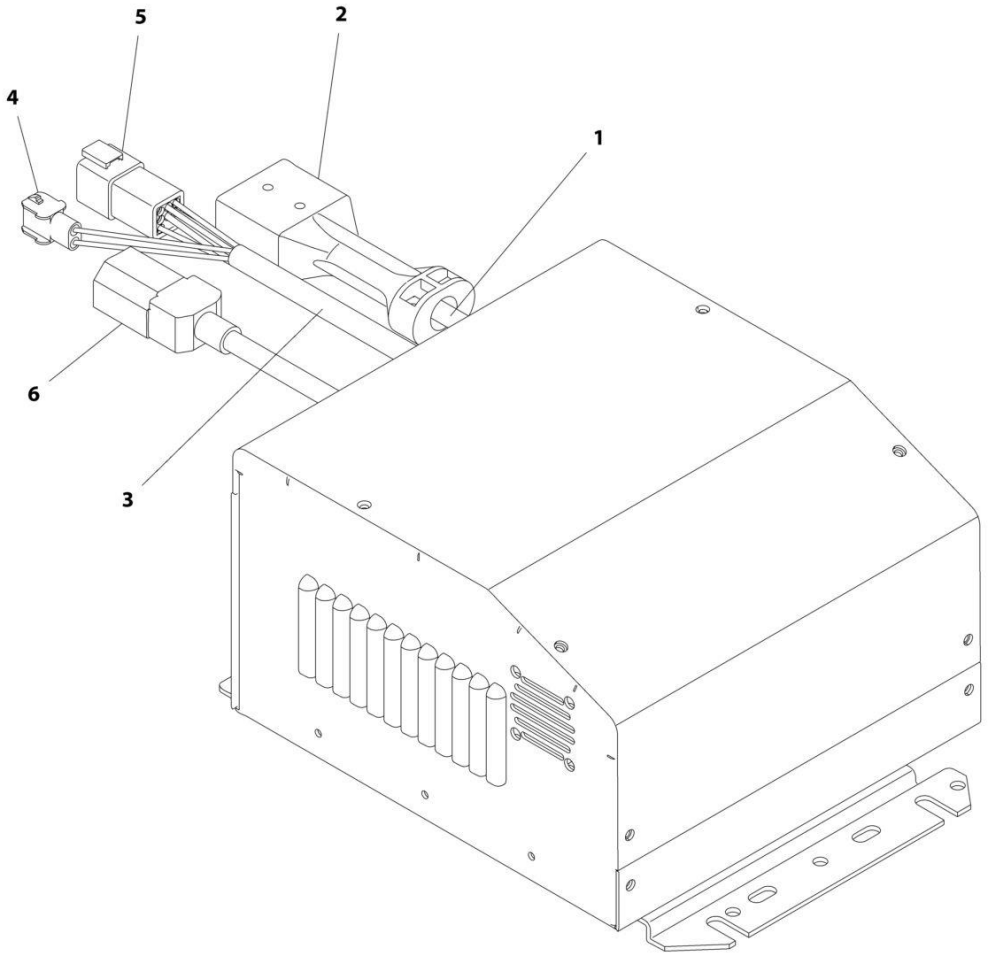


FIGURE 1-19. BATTERY CHARGER ASSEMBLY - DELTA-Q

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112111	Ref	BATTERY CHARGER ASSEMBLY - DELTA-Q	K
1	Not Available	1	Harness with Plug	
1	4460648	1	Plug, Anderson Battery Cable	
2	Not Available	1	Harness with Connector	
2	4460424	1	Connector, Female - 2 Position	
2	4460227	2	Pin, Male	
3	Not Available	1	Harness with Connector	
3	4460899	1	Connector, Female - 6 Position	
3	4460464	6	Pin, Male	
4	Not Available	1	Connector, Strain Relief	
5	Not Available	1	Connector, Strain Relief	
6	Not Available	1	Connector, Strain Relief	
7	Not Available	1	Harness with Connector	
100	2915230	1	BATTERY CHARGER REPROGRAM CONTROLLER KIT (Includes Controller, Software and Instructions)	

FIGURE 1-20. BATTERY CHARGER ASSEMBLY - EAGLE PERFORMANCE



ART_1001177842

FIGURE 1-20. BATTERY CHARGER ASSEMBLY - EAGLE PERFORMANCE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001177842	Ref	BATTERY CHARGER ASSEMBLY - EAGLE PERFORMANCE	A
1	Not Available	1	Harness with Plug	
2	Not Available	1	Plug, Battery Cable	
3	Not Available	1	Harness	
4	4460424	1	Connector, Female - 2 Position	
4	4460227	2	Pin, Male	
5	4460899	1	Connector, Female - 6 Position	
5	4460464	6	Pin, Male	
6	Not Available	1	Harness with Connector	

FIGURE 1-21. CHARGER (INVERTER) INSTALLATION (ANSI, ANSI EXPORT, CSA SPECS)

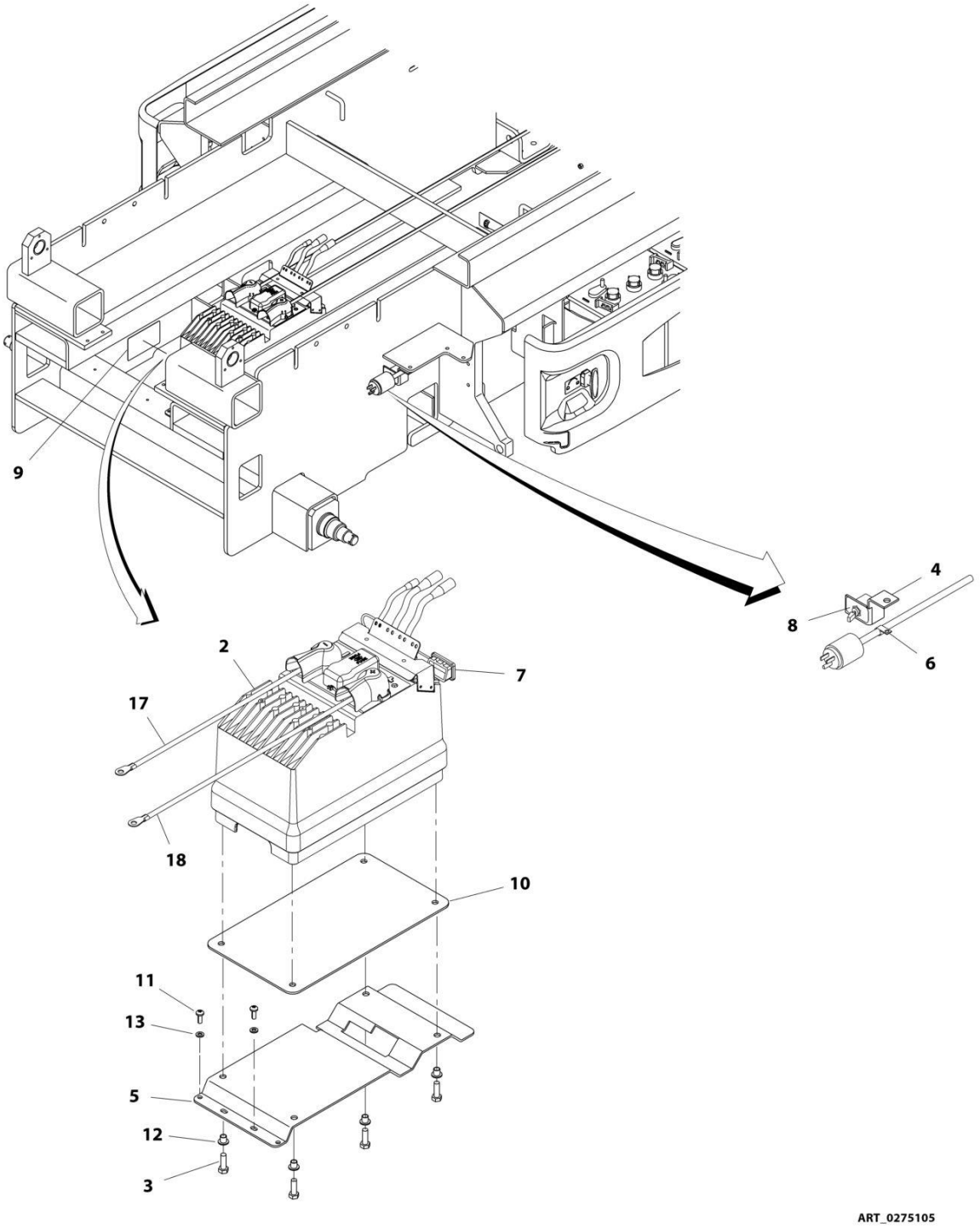


FIGURE 1-21. CHARGER (INVERTER) INSTALLATION (ANSI, ANSI EXPORT, CSA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275105	Ref	CHARGER (INVERTER) INSTALLATION	F
1	0100011	AR	Compound, Locking	
2	1001093839	1	Charger, Inverter	
3	0760812	4	Screw M8 x 25	
4	0902780	1	Bracket, Remote Switch	
5	0903319	1	Bracket, Inverter Mounting	
6	1320043	1	Clamp	
7	1671266	1	Cover	
8	1705052	1	Decal - Inverter On-Off	
9	1706749	1	Decal - Inverter	
10	2820239	1	Insulation	
11	4191707	2	Screw M6 x 16	
12	4740562	4	Washer Special	
13	4811700	2	Washer M6	
14	1001091479	1	Harness, AC Input (Not Shown)	
15	4923390	1	Harness, AC Output (Not Shown)	
16	4923391	1	Harness Data Interface (Not Shown)	
17	4923392	1	Cable, Inverter Positive	
18	4923393	1	Cable, Inverter Negative	

FIGURE 1-22. BATTERY CHARGER INSTALLATION - GREEN POWER (CHINESE PLUG) (CHINESE SPECS) (SN 0200238382 through 0200261035, SN B200020297 through B200036742, SN M200000100 through M200007339)

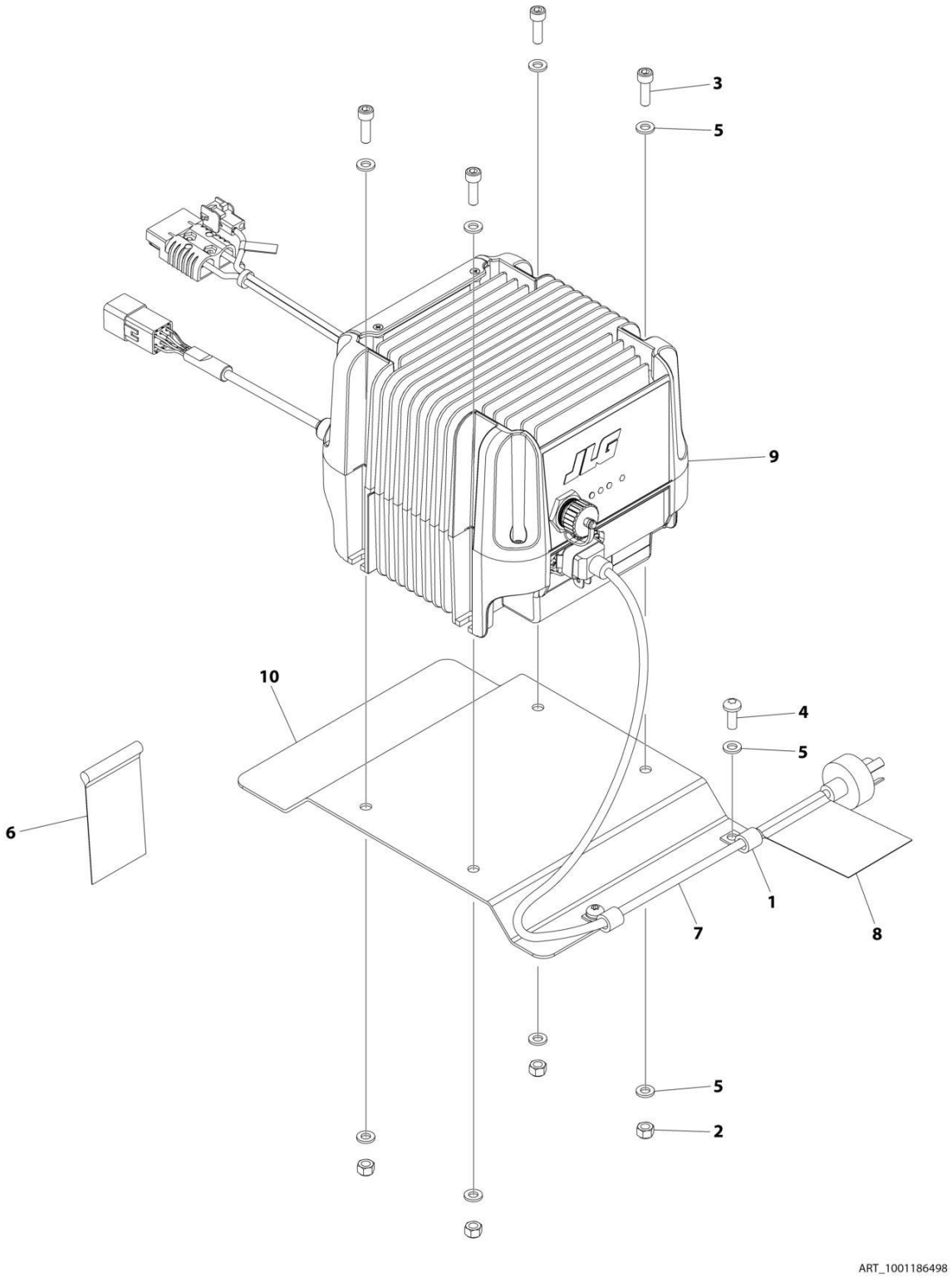


FIGURE 1-22. BATTERY CHARGER INSTALLATION - GREEN POWER (CHINESE PLUG) (CHINESE SPECS) (SN 0200238382 through 0200261035, SN B200020297 through B200036742, SN M200000100 through M200007339)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186498	Ref	BATTERY CHARGER INSTALLATION - GREEN POWER (CHINESE PLUG)	F
1	1321293	2	Clamp	
2	3290605	4	Nut M6	
3	4031708	4	Capscrew M6 x 20	
4	4191707	2	Screw M6 x 16	
5	4811700	10	Washer M6	
6	1001102258	1	Decal - AC to Platform	
7	1001172010	1	Cable, Charger (AC Input)	
8	1001215870	1	Decal - Charger Plug	
9	1001218595	1	Charger, Battery - Green Power	
10	1001218808	1	Bracket	
11	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal)	

FIGURE 1-23. BATTERY CHARGER INSTALLATION - GREEN POWER (CHINESE PLUG) (CHINESE SPECS)

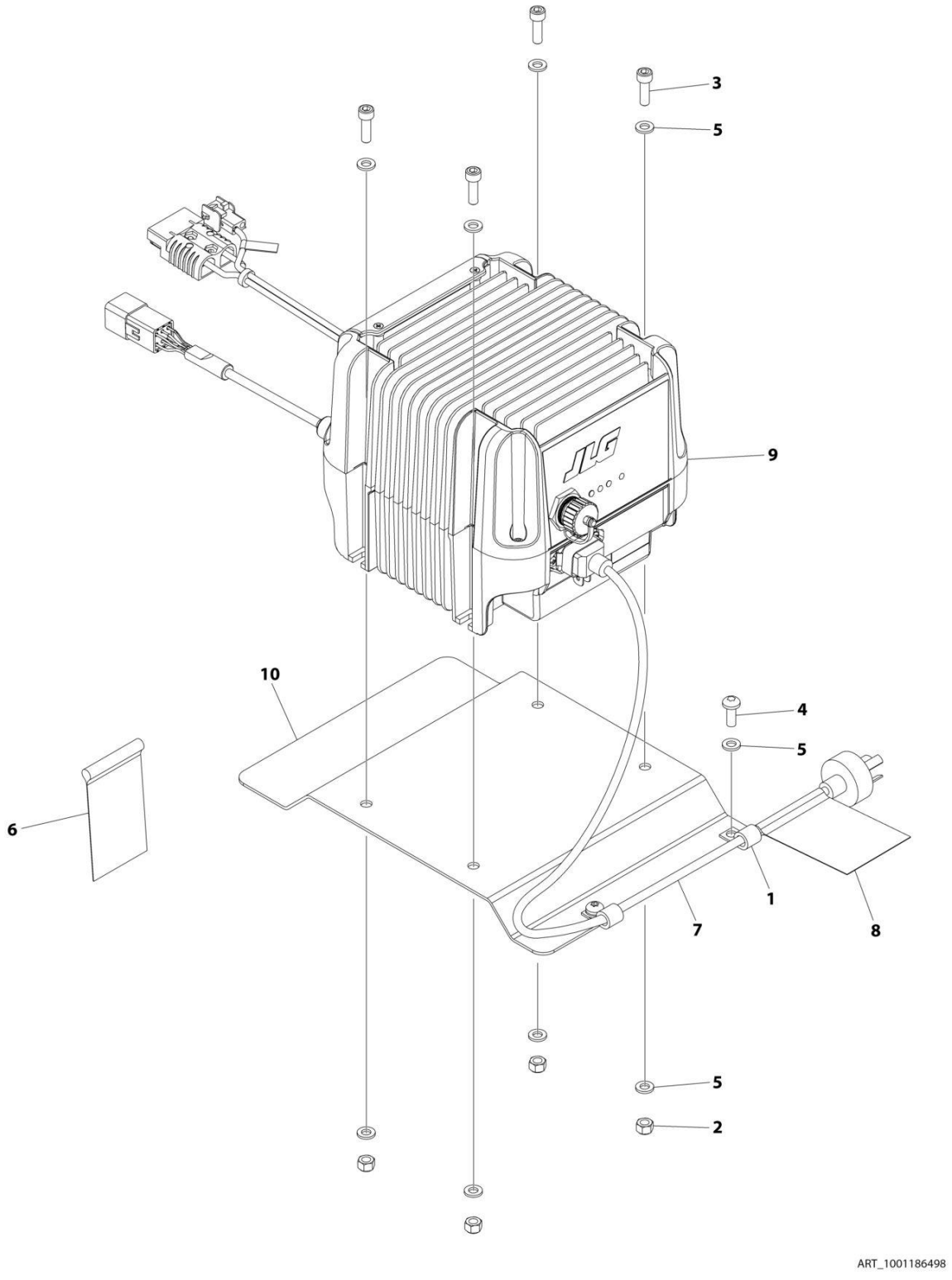


FIGURE 1-23. BATTERY CHARGER INSTALLATION - GREEN POWER (CHINESE PLUG) (CHINESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001186498	Ref	BATTERY CHARGER INSTALLATION - GREEN POWER (CHINESE PLUG)	F
1	1321293	2	Clamp	
2	3290605	4	Nut M6	
3	4031708	4	Capscrew M6 x 20	
4	4191707	2	Screw M6 x 16	
5	4811700	10	Washer M6	
6	1001102258	1	Decal - AC to Platform	
7	1001172010	1	Cable, Charger (AC Input)	
8	1001215870	1	Decal - Charger Plug	
9	1001218595	1	Charger, Battery - Green Power	
10	1001218808	1	Bracket	
11	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal)	

FIGURE 1-24. BATTERY CHARGER INSTALLATION - GREEN POWER (LOCALLY SUPPLIED PLUG) (KOREA SPECS)

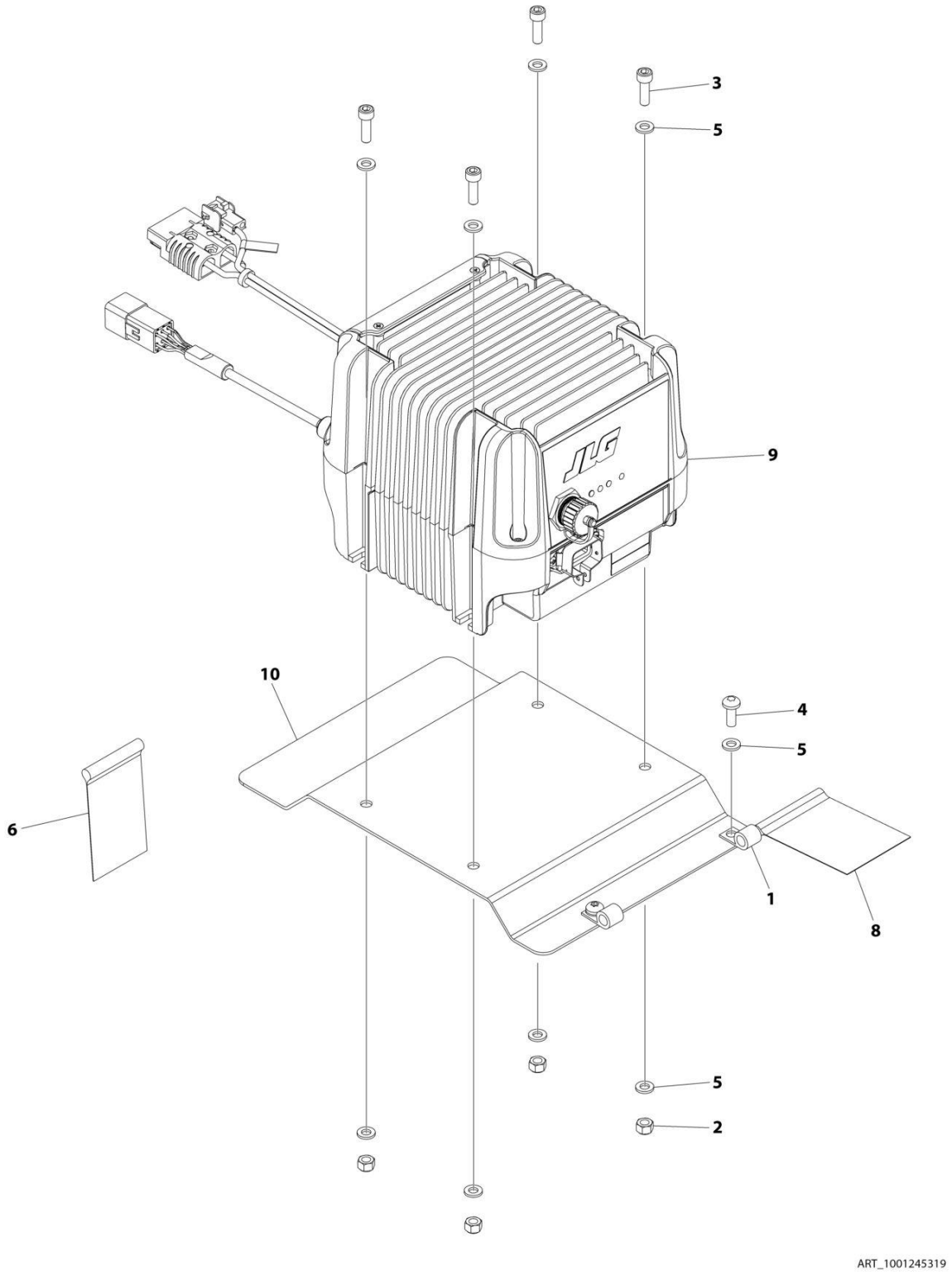


FIGURE 1-24. BATTERY CHARGER INSTALLATION - GREEN POWER (LOCALLY SUPPLIED PLUG) (KOREA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001245319	Ref	BATTERY CHARGER INSTALLATION - GREEN POWER (LOCALLY SUPPLIED PLUG)	A
1	1321293	2	Clamp	
2	3290605	4	Nut M6	
3	4031708	4	Capscrew M6 x 20	
4	4191707	2	Screw M6 x 16	
5	4811700	10	Washer M6	
6	1001102258	1	Decal - AC to Platform	
7	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal)	
8	1001215870	1	Decal - Charger Plug	
9	1001218595	1	Charger, Battery - Green Power	
10	1001218808	1	Bracket	

FIGURE 1-25. BATTERY CHARGER INSTALLATION - GREEN POWER (110V PLUG) (JAPANESE SPECS)

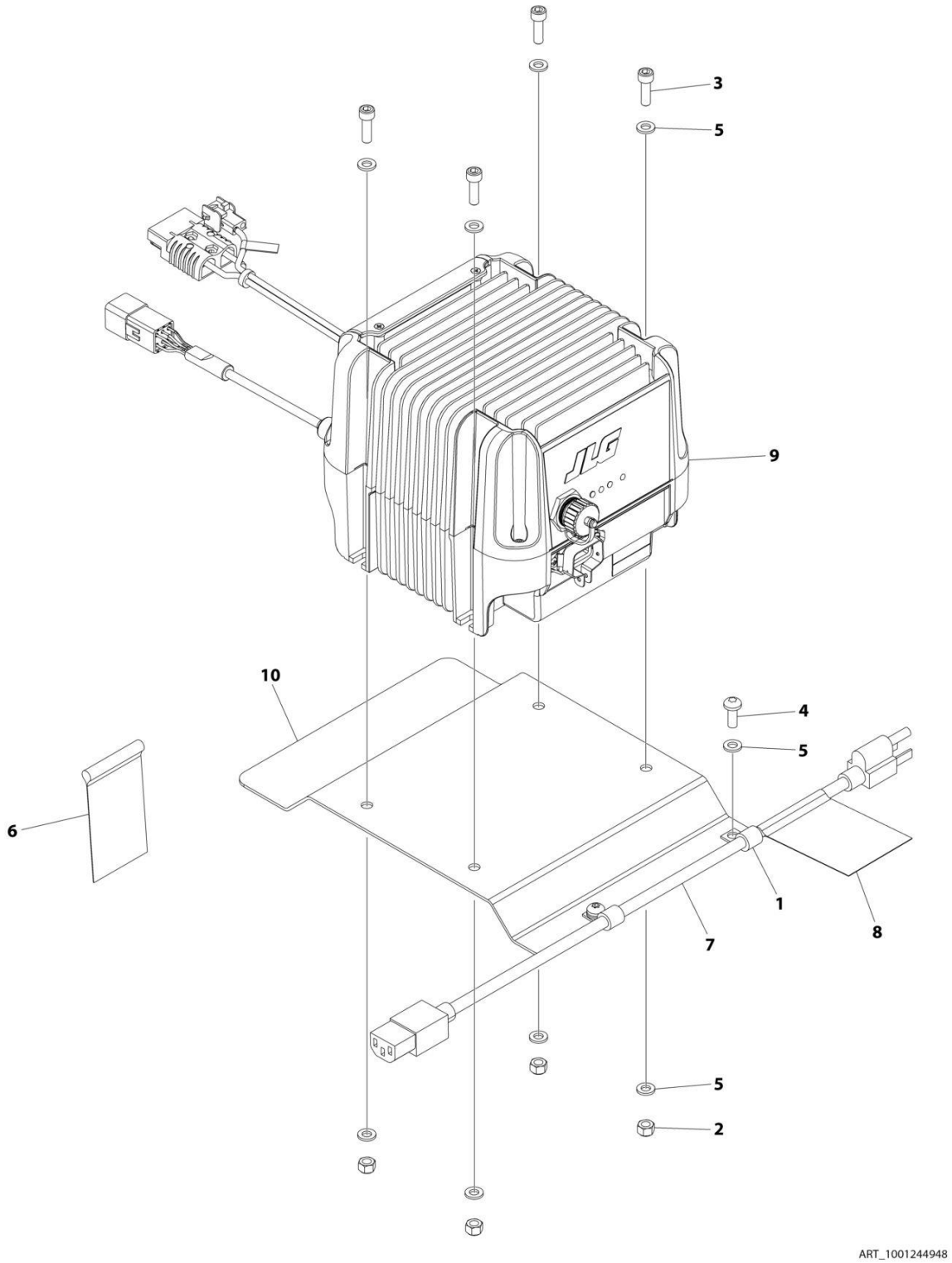


FIGURE 1-25. BATTERY CHARGER INSTALLATION - GREEN POWER (110V PLUG) (JAPANESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001244948	Ref	BATTERY CHARGER INSTALLATION - GREEN POWER (110V PLUG)	A
1	1321293	2	Clamp	
2	3290605	4	Nut M6	
3	4031708	4	Capscrew M6 x 20	
4	4031707	2	Capscrew M6 x 16	
5	4811700	10	Washer M6	
6	1001102258	1	Decal - AC to Platform	
7	1001103257	1	Cable, Charger (AC Input)	
8	1001215870	1	Decal - Charger Plug	
9	1001218595	1	Charger, Battery - Green Power	
10	1001218808	1	Bracket	
11	1001112113	1	Sensor, Temperature (Not Shown - Located on Negative Battery Terminal)	

FIGURE 1-26. BEACON (AMBER) LIGHT INSTALLATION (OPTIONAL)

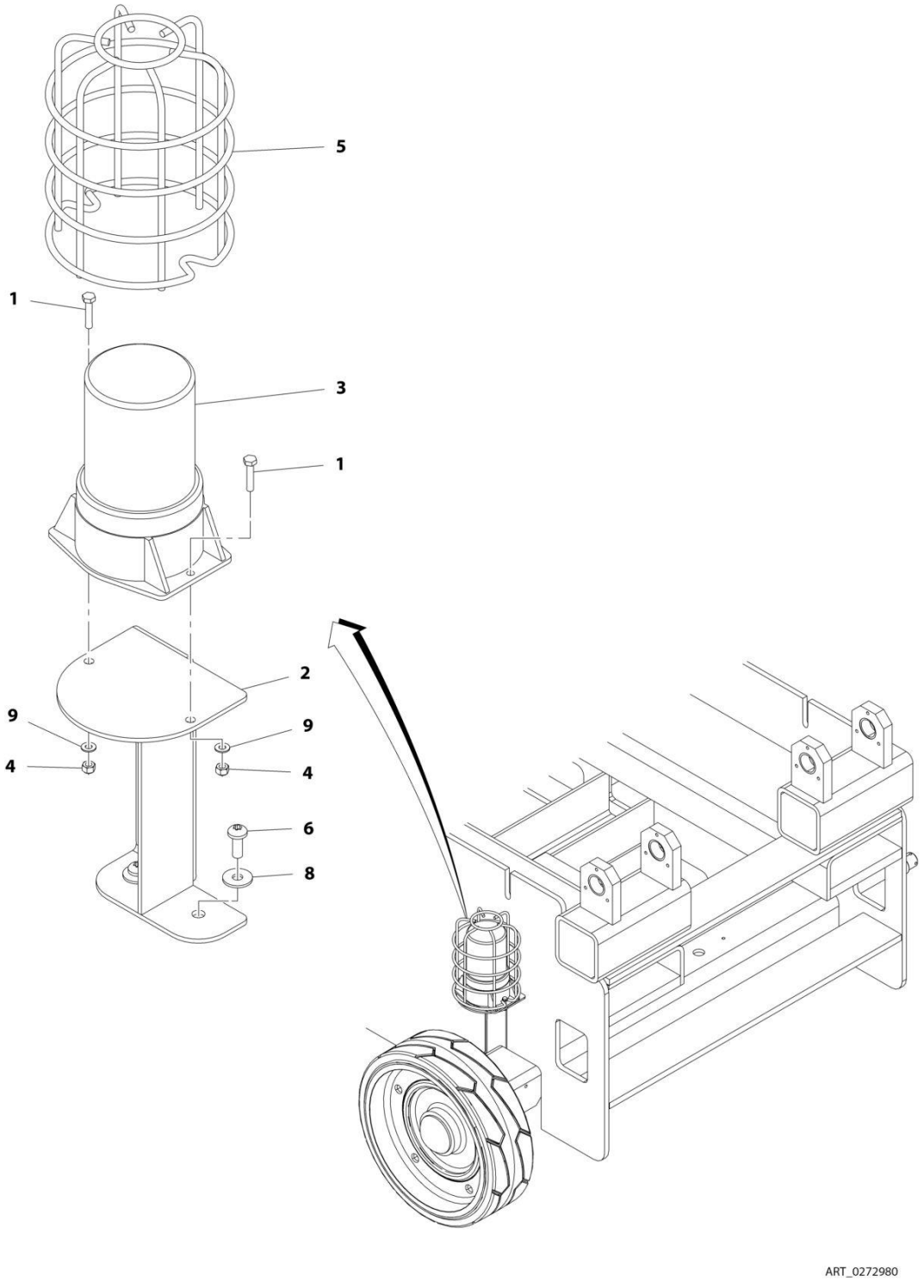


FIGURE 1-26. BEACON (AMBER) LIGHT INSTALLATION (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272980	Ref	BEACON (AMBER) LIGHT INSTALLATION (OPTIONAL)	E
		Ref	Note: See SPECIAL OPTIONS SECTION for Machines with 2 Beacon Lights.	
1	0760410	2	Bolt M4 x 20	
2	0902906	1	Bracket, Beacon Mount	
3	2920161	1	Light, Beacon	
3	7016319	1	Bulb	
3	7016372	1	Lens	
4	3290405	2	Nut M4	
5	4060865	1	Guard	
6	4191707	2	Screw M6 x 16	
8	4811702	2	Washer M6	
9	4750800	2	Washer M8	

FIGURE 1-27. LADDER INSTALLATION

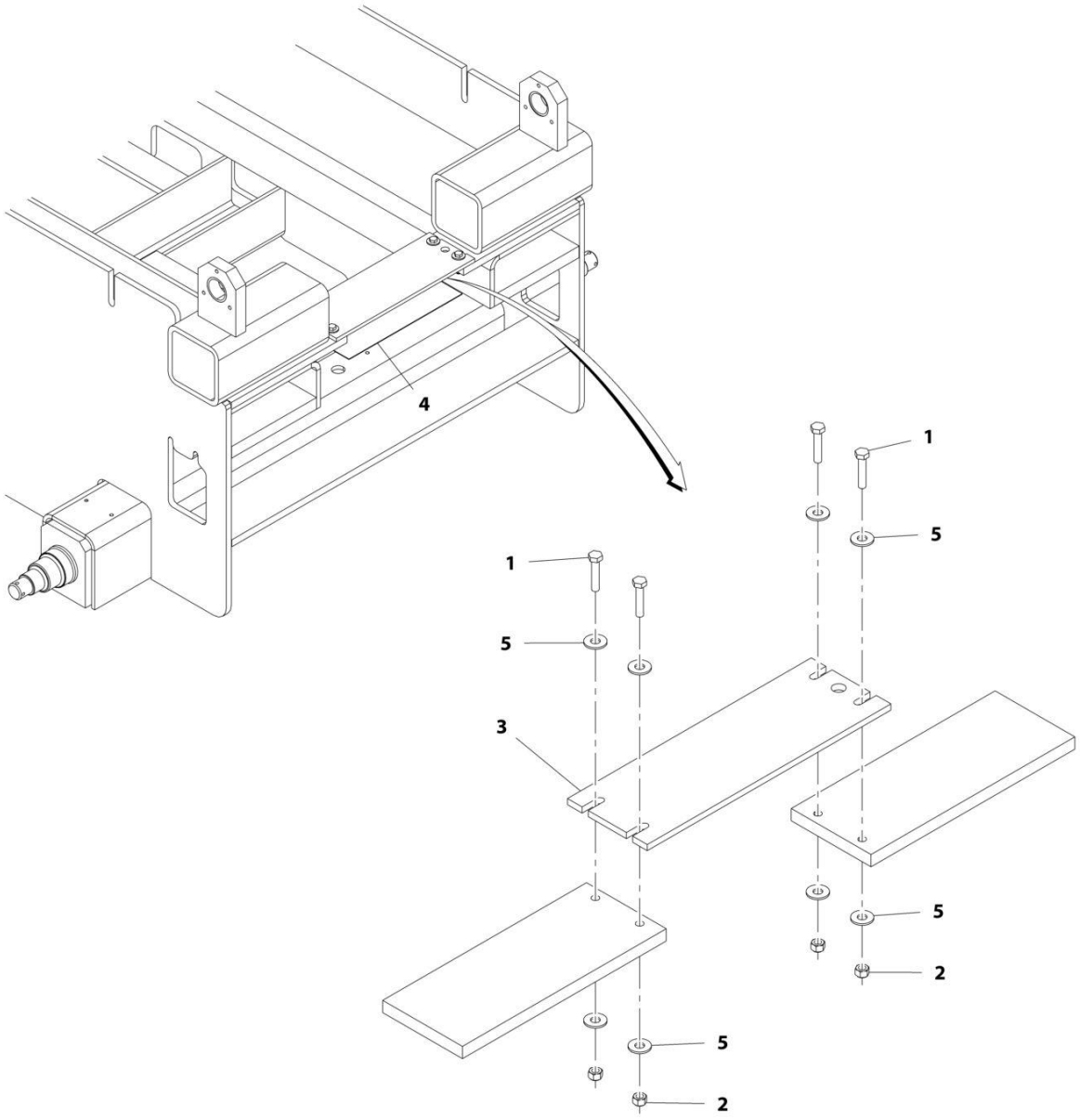


FIGURE 1-27. LADDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001177412	Ref	LADDER INSTALLATION	B
1	0700614	4	Bolt M6 x 30	
2	3290605	4	Nut M6	
3	3576349	1	Bar, Step	
4	4420080	1	Tape, Anti-Skid	
5	4751400	8	Washer 1/4	

SECTION 2 - GROUND COMPONENTS

FIGURE 2-1. GROUND CONTROL BOX/ALARM INSTALLATION - NO LSS (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

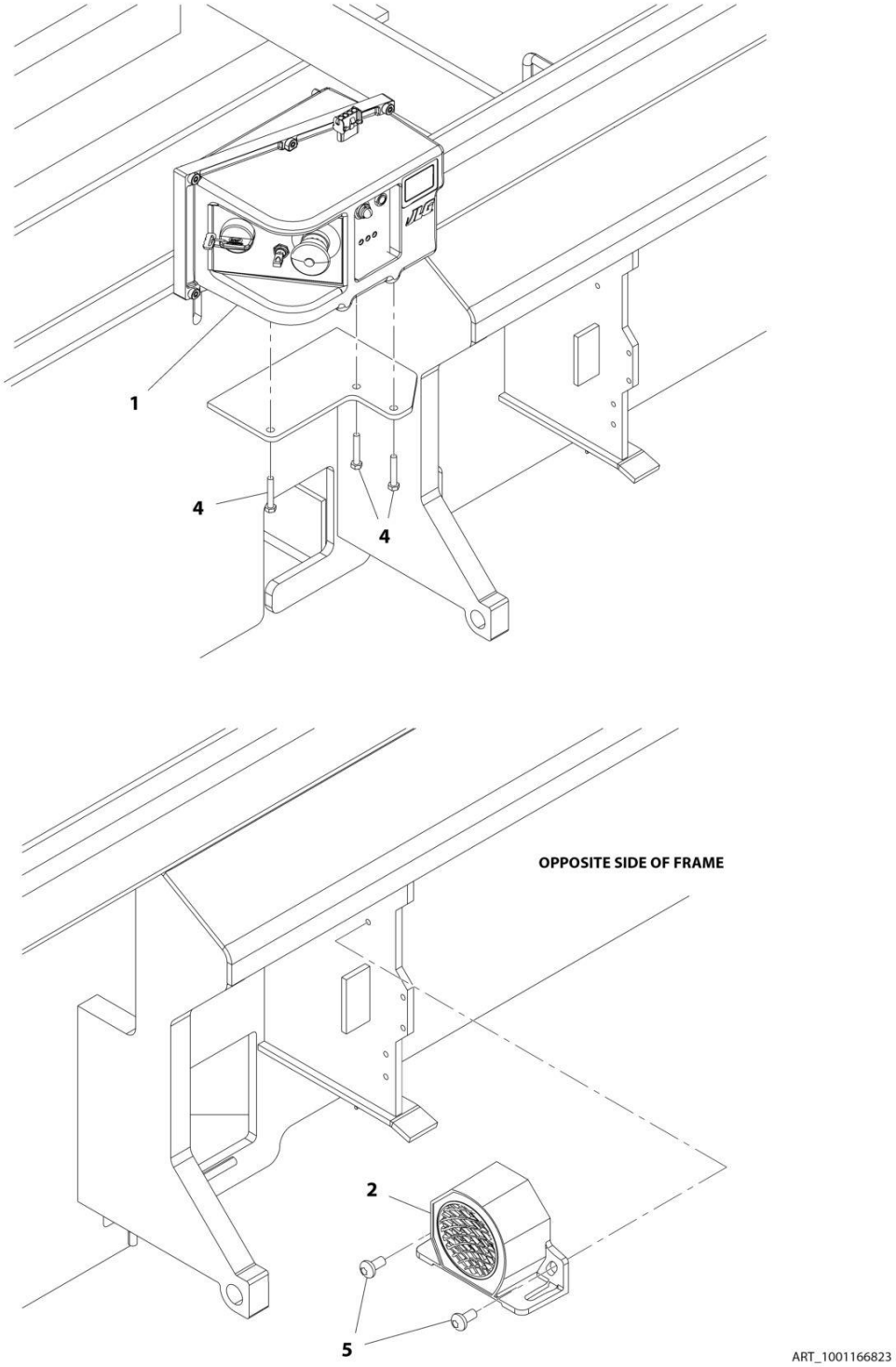


FIGURE 2-1. GROUND CONTROL BOX/ALARM INSTALLATION - NO LSS (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166823	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - NO LSS	B
		Ref	Note: Standard Alarm located on LH side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001166194	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - NO LSS for Breakdown)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
4	0700615	3	Bolt M6 x 35	
5	4191706	2	Screw M6 x 12	

FIGURE 2-2. GROUND CONTROL BOX/ALARM INSTALLATION - NO LSS (SN B200020297 through B200023345)

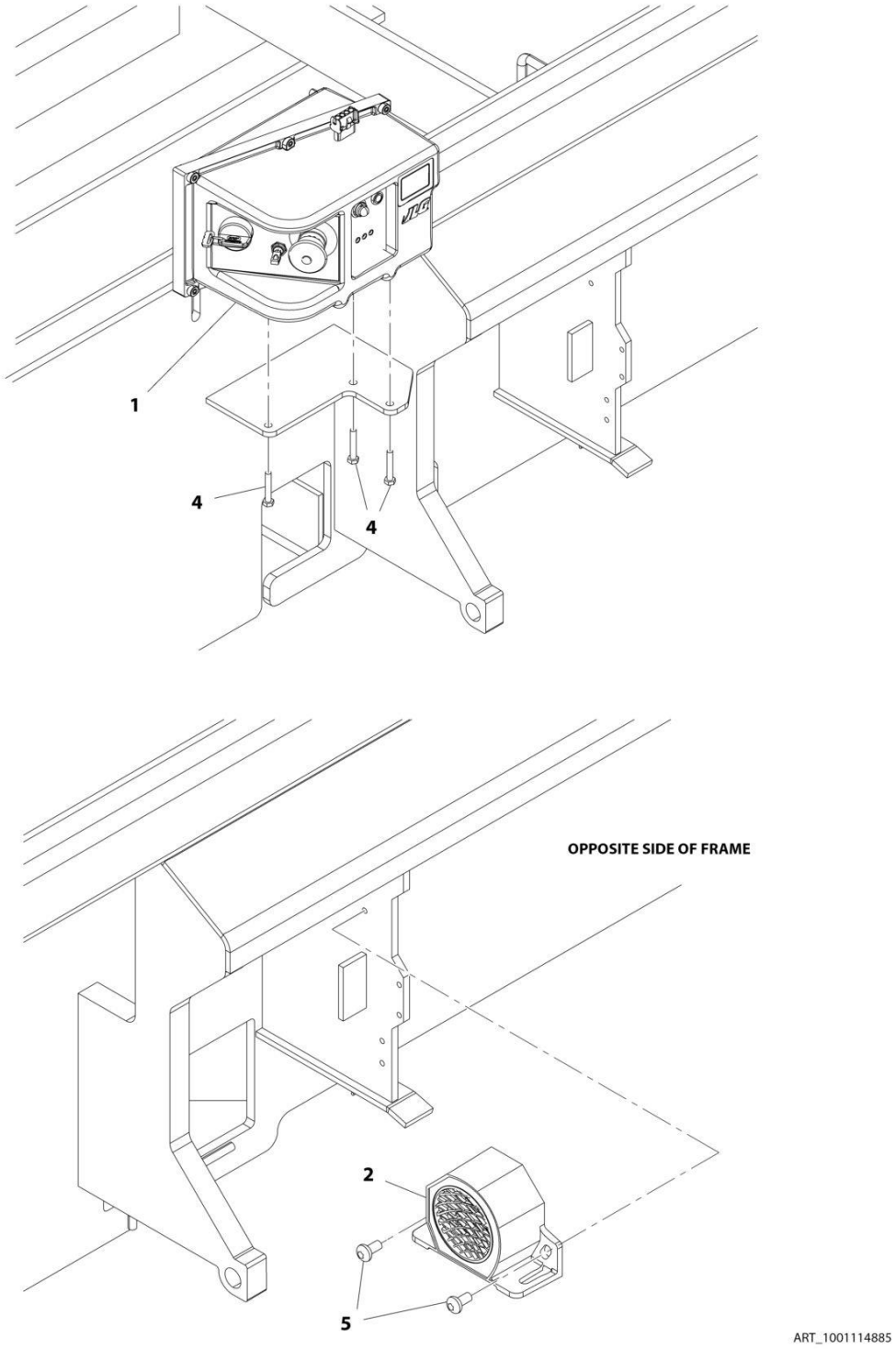


FIGURE 2-2. GROUND CONTROL BOX/ALARM INSTALLATION - NO LSS (SN B200020297 through B200023345)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114885	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - NO LSS	A
		Ref	Note: Standard Alarm located on LH side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001114929	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - NO LSS for Breakdown)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
4	0700615	3	Bolt M6 x 35	
5	4191706	2	Screw M6 x 12	

FIGURE 2-3. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (ALL SPECS EXCEPT CE SPECS) (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

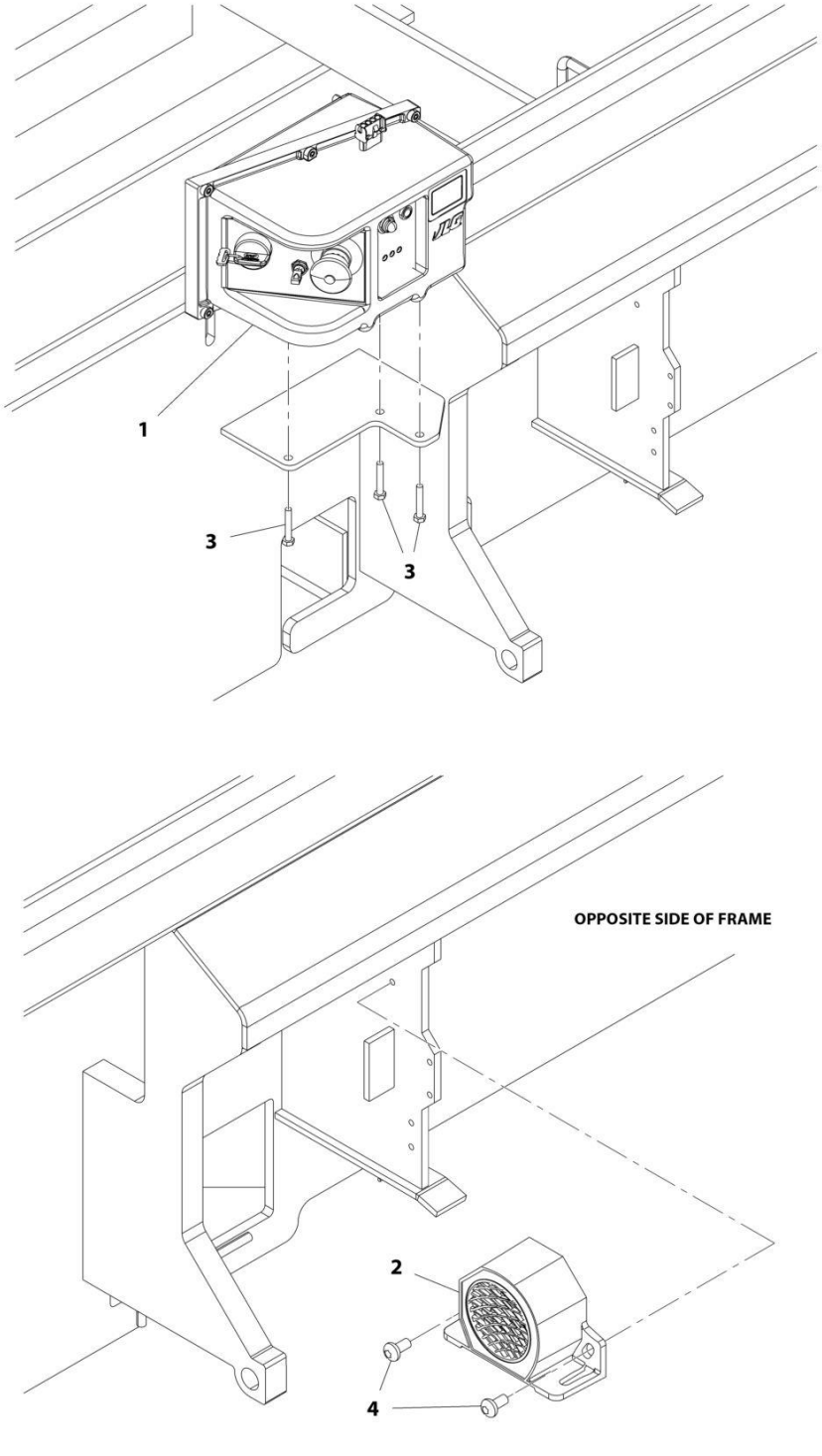


FIGURE 2-3. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (ALL SPECS EXCEPT CE SPECS) (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166828	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - LSS	B
		Ref	Note: Standard Alarm located on LH side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001166197	1	Ground Control Box Assembly (See Separate Breakdown in this Section)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
3	0700615	3	Bolt M6 x 35	
4	4191706	2	Screw M6 x 12	

FIGURE 2-4. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (ALL SPECS EXCEPT CE SPECS) (SN B200020297 through B200023345)

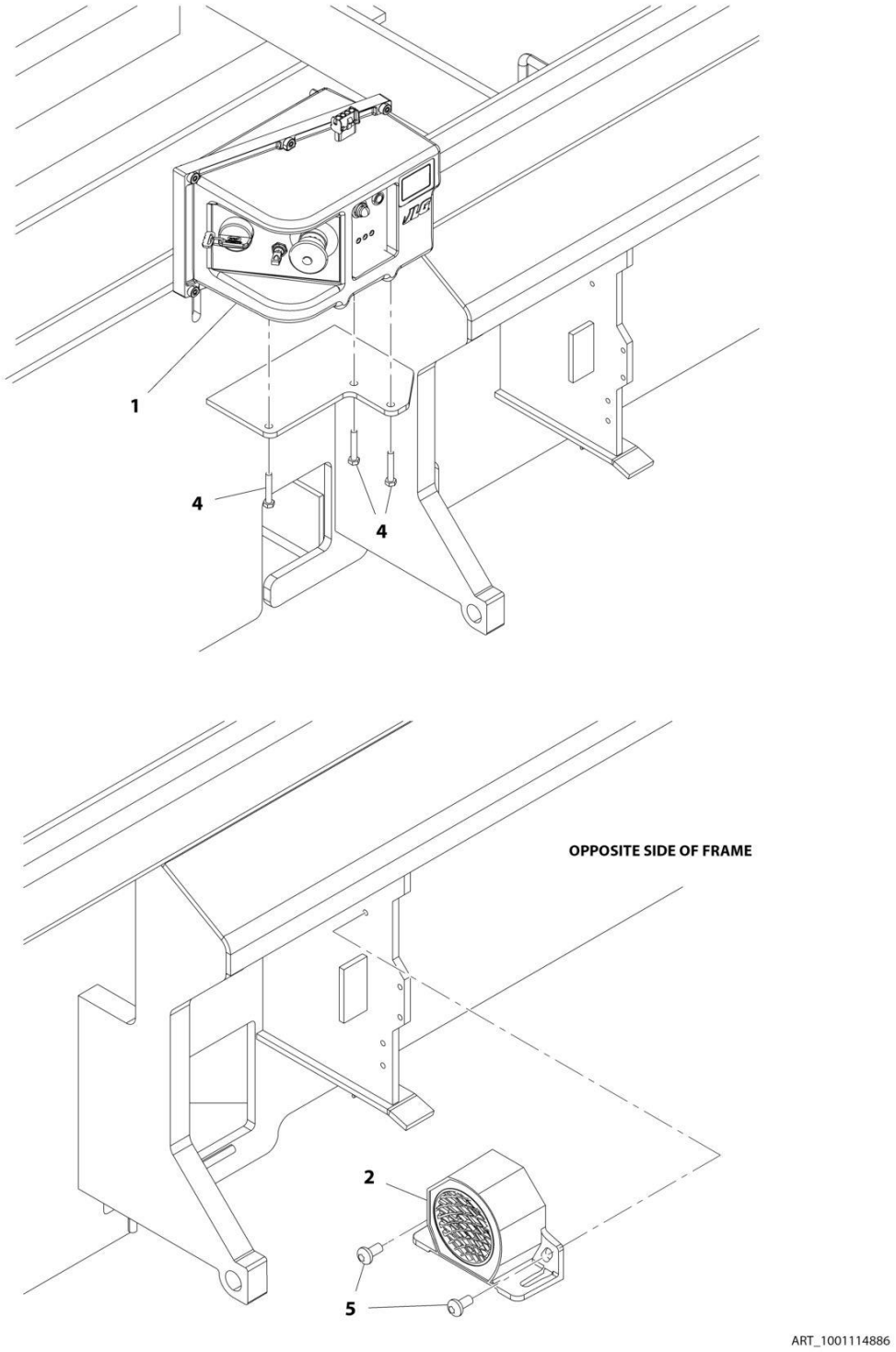
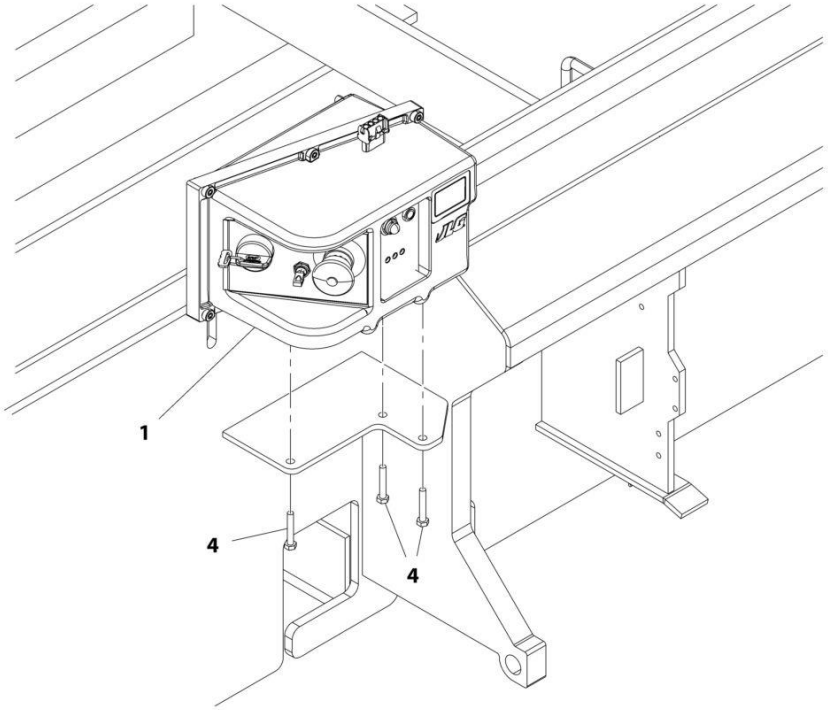
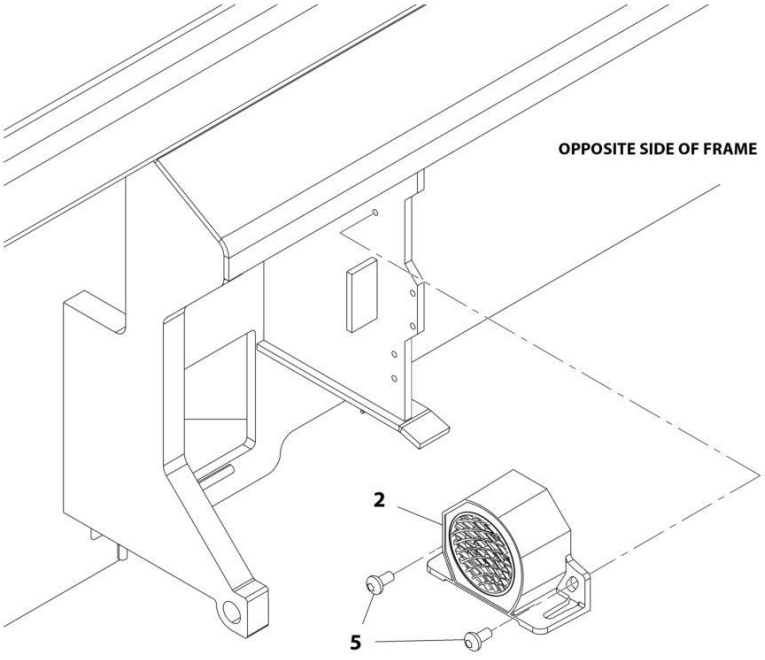


FIGURE 2-4. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (ALL SPECS EXCEPT CE SPECS) (SN B200020297 through B200023345)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114886	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - LSS	A
		Ref	Note: Standard Alarm located on LH side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001114932	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - LSS (ALL SPECS EXCEPT CE SPECS) for Breakdown)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
4	0700615	3	Bolt M6 x 35	
5	4191706	2	Screw M6 x 12	

FIGURE 2-5. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPEC) (SN 0200239382 through 0200241828)





ART_1001166825

FIGURE 2-5. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPEC) (SN 0200239382 through 0200241828)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166825	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - LSS	B
		Ref	Note: Standard Alarm located on LH side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001166195	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) for Breakdown)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
4	0700615	3	Bolt M6 x 35	
5	4191706	2	Screw M6 x 12	

FIGURE 2-6. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPEC) (SN B200020297 through B200021650)

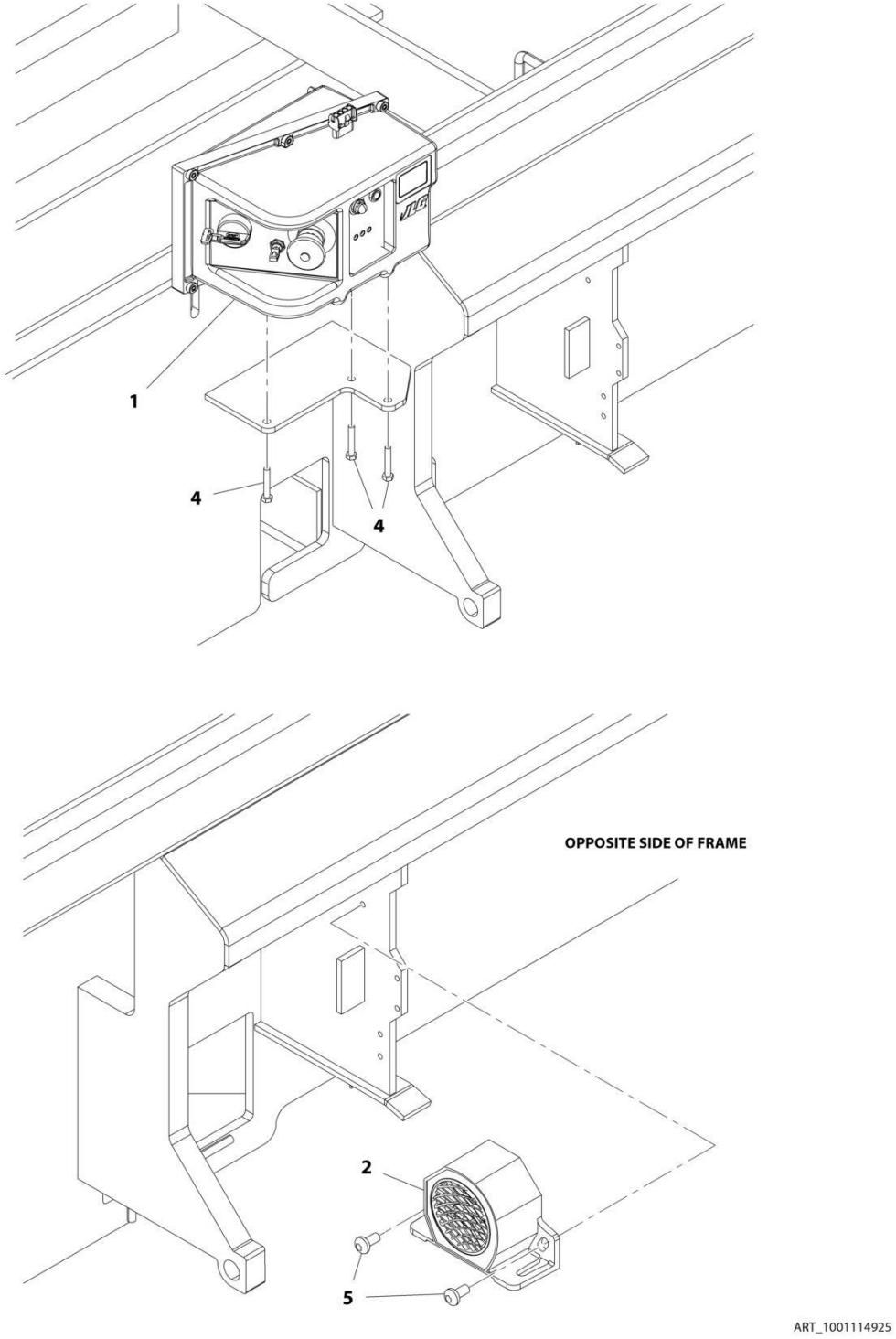


FIGURE 2-6. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPEC) (SN B200020297 through B200021650)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114925	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - LSS	A
		Ref	Note: Standard Alarm located on LH side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001114930	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) for Breakdown)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
4	0700615	3	Bolt M6 x 35	
5	4191706	2	Screw M6 x 12	

FIGURE 2-7. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPECS) (SN 0200241829 to Present, SN B200021651 to Present, SN M200000100 to Present)

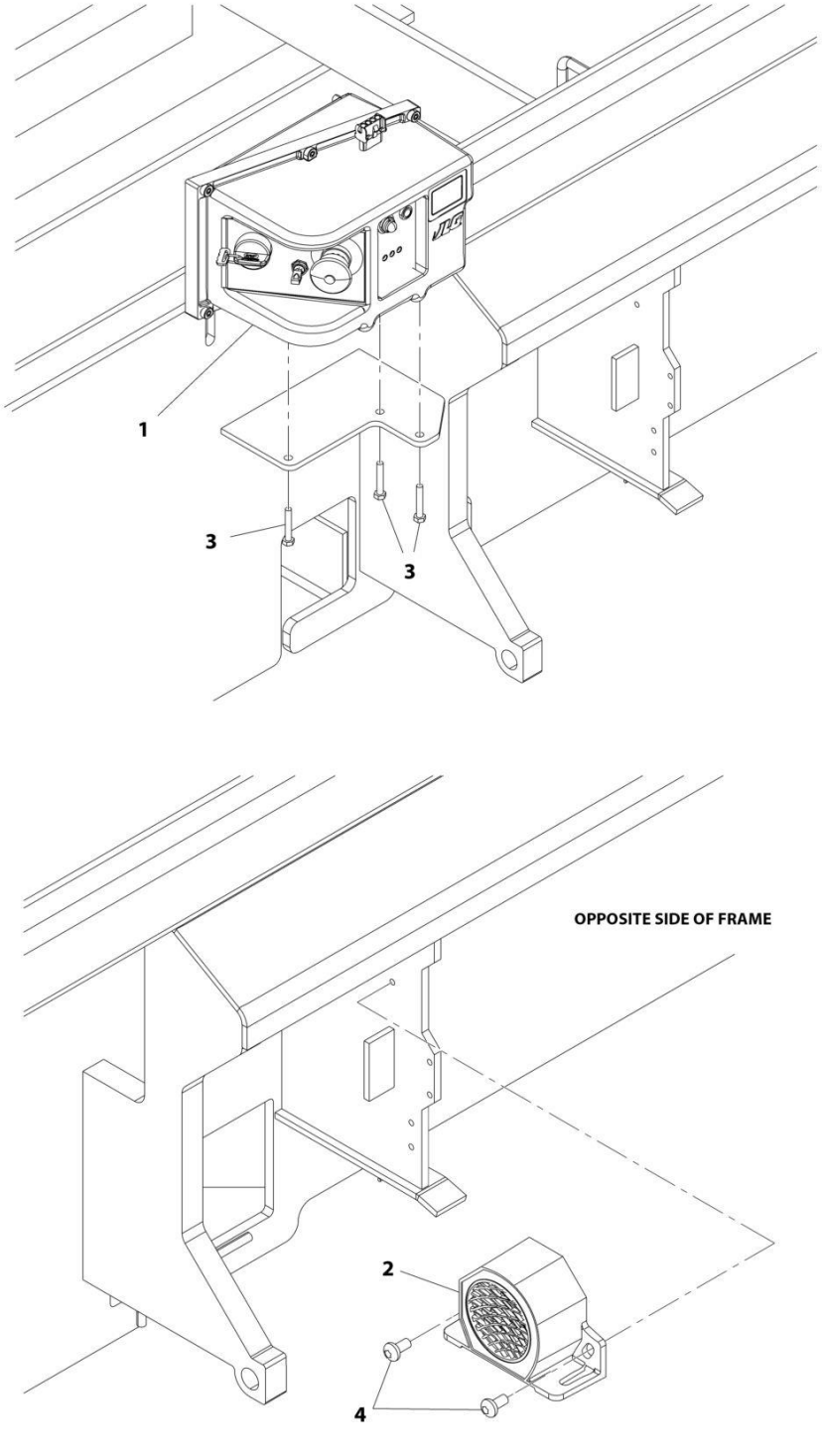
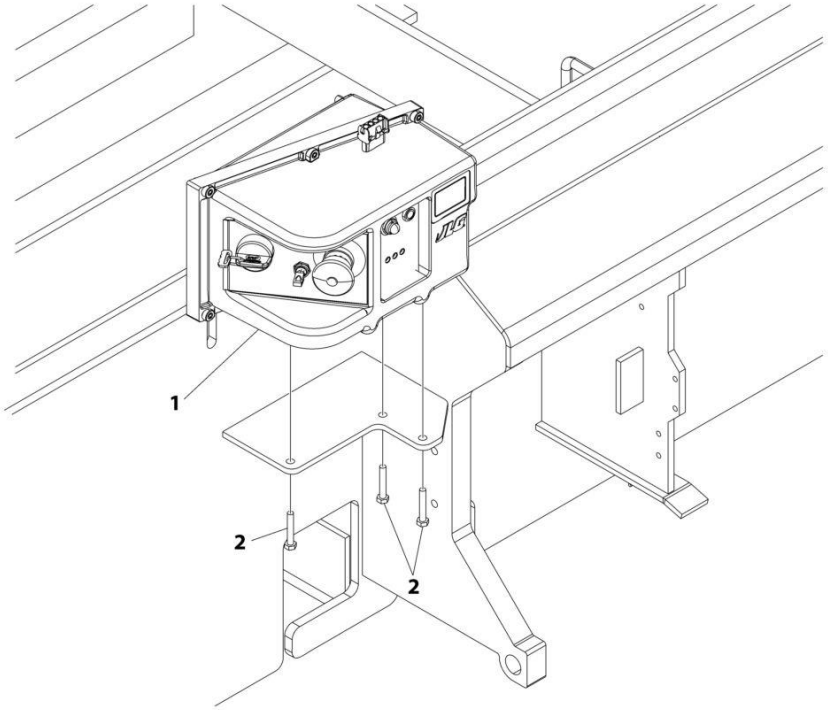
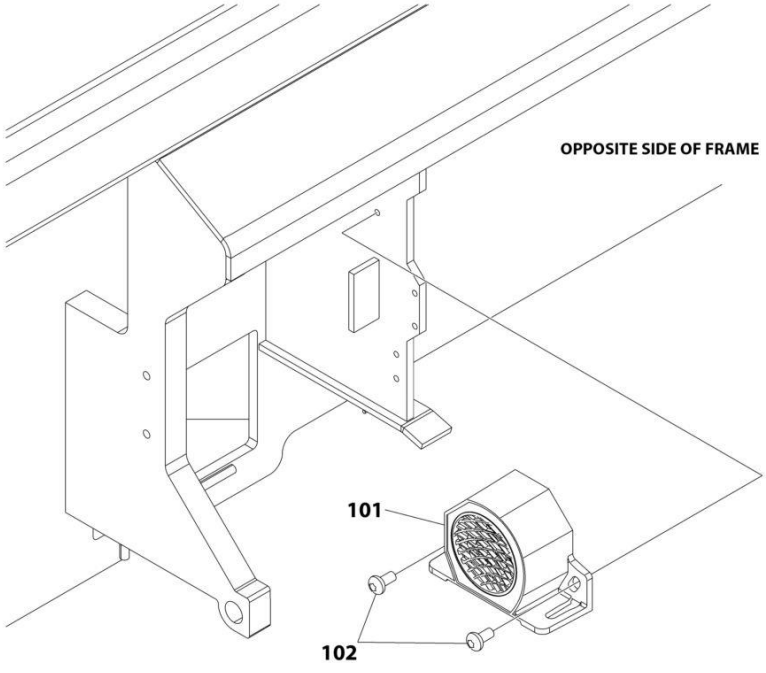


FIGURE 2-7. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPECS) (SN 0200241829 to Present, SN B200021651 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166828	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - LSS	B
		Ref	Note: Standard Alarm located on LH Side of operators position on machine. Optional Alarms are located on the RH Side of operators position on machines. For optional alarm components, See SPECIAL OPTIONS Section.	
1	1001166197	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - LSS for Breakdown)	
2	0140043	1	Alarm	
2	4460536	1	Receptacle, Female - 3 Position	
2	4460464	3	Pin, Male	
3	0700615	3	Bolt M6 x 35	
4	4191706	2	Screw M6 x 12	

FIGURE 2-8. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPECS) (SN 1200025021 to Present)





ART_1001215247

FIGURE 2-8. GROUND CONTROL BOX/ALARM INSTALLATION - LSS (CE SPECS) (SN 1200025021 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215247	Ref	GROUND CONTROL BOX/ALARM INSTALLATION - LSS	A
1	1001166197	1	Ground Control Box Assembly (See GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) for Breakdown)	
2	0700615	3	Bolt M6 x 35	
	1001215248	Ref	Alarm Installation **(SN 1200025021 to Present)**	A
101	0140043	1	Alarm	
101	4460536	1	Receptacle, Female - 3 Position	
101	4460464	3	Pin, Male	
102	4191706	2	Screw M6 x 12	

FIGURE 2-9. GROUND CONTROL BOX ASSEMBLY - NO LSS (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

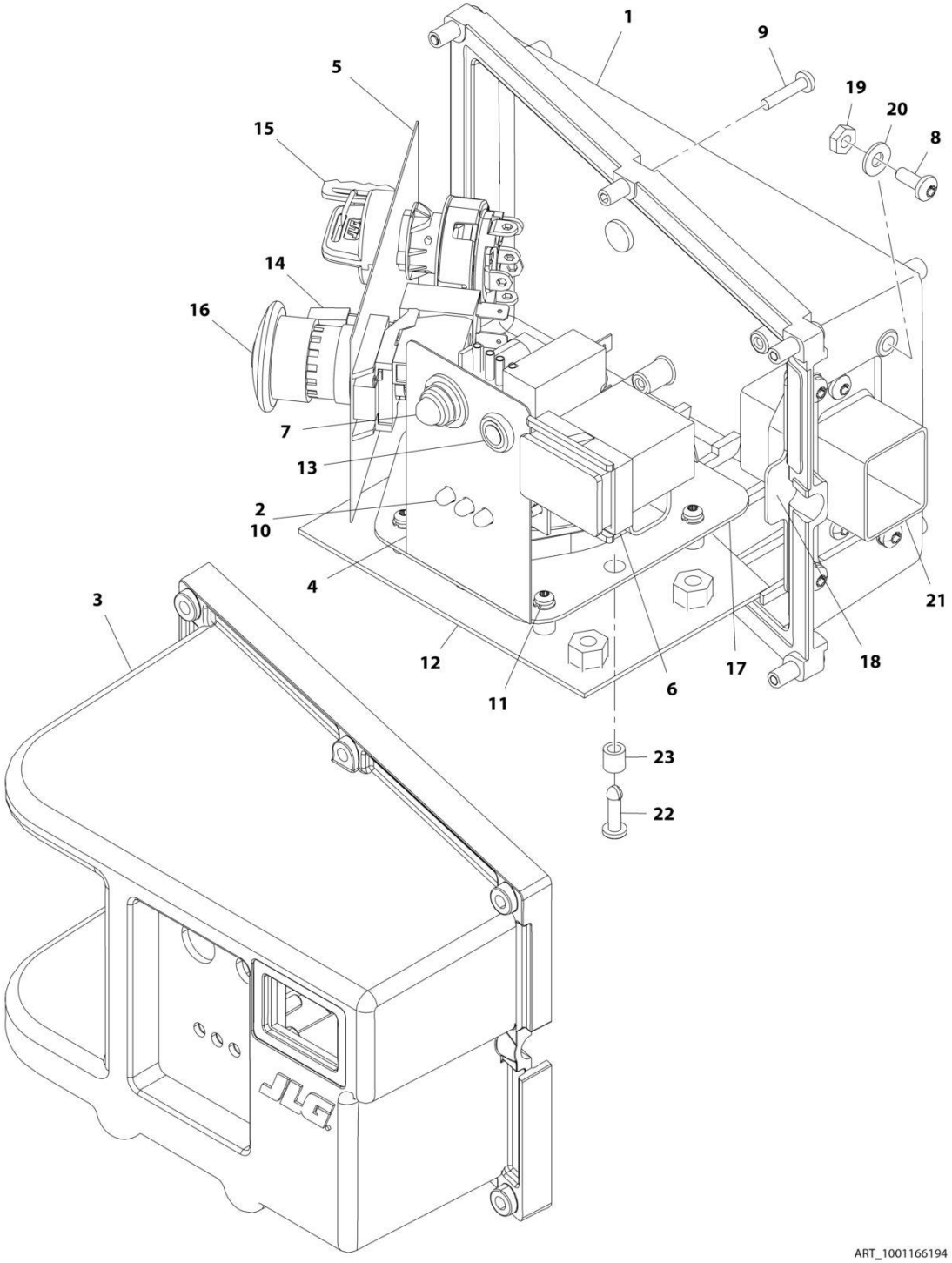


FIGURE 2-9. GROUND CONTROL BOX ASSEMBLY - NO LSS (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166194	Ref	GROUND CONTROL BOX ASSEMBLY - NO LSS	I
1	0380025	1	Base, Box	
2	0610161	1	PC Board, Charger LED	
2	4460321	1	Plug, Male - 4 Position	
2	4460268	3	Socket, Female	
3	1671105	1	Cover	
4	1705696	1	Decal	
5	1705698	1	Decal	
6	2420172	1	Hourmeter	
7	3520193	1	Plug	
8	3900336	6	Screw	
9	3900338	6	Screw	
10	3900339	2	Screw	
11	1001180090	4	Screw M3.5 x 20	
12	1001165315	1	Support	
13	4360069	1	Breaker, Circuit 10Amp	
14	4360328	1	Switch, Toggle	
15	4360469	1	Switch, Key	
15	2860030	1	Key, Replacement	
16	4360475	1	Switch, Emergency Stop	
16	7020175	1	Cap	
16	7020176	1	Block, Contact	
17	1001166255	1	Sensor, Tilt (Includes Sensor, Mounting Plate and Hardware)	
17	3931412	3	Screw 1/4 x 3/4	
17	1001163095	1	Sensor	
17	1001165316	1	Mount, Sensor	
17	1001166776	4	Mount, Standoff	
18	1001114937	1	Mount, Harness	
19	3321005	4	Nut #10	
20	4751000	4	Washer #10	
21	1001167256	1	Harness, Ground Control Box (See ELECTRICAL SECTION for Breakdown) **(SN 0200239382 through 0200266379, SN B200020297 through B200043103, SN M200000100 through M200012170)**	
21	1001208641	1	Harness, Ground Control Box (See ELECTRICAL SECTION for Breakdown) **(SN 0200266380 to Present, SN B200043104 to Present, SN M200012171 through M200039292)**	
22	1001165284	1	Fastener	
23	1001165286	1	Spacer	

FIGURE 2-10. GROUND CONTROL BOX ASSEMBLY - NO LSS (SN B200020297 through B200023345)

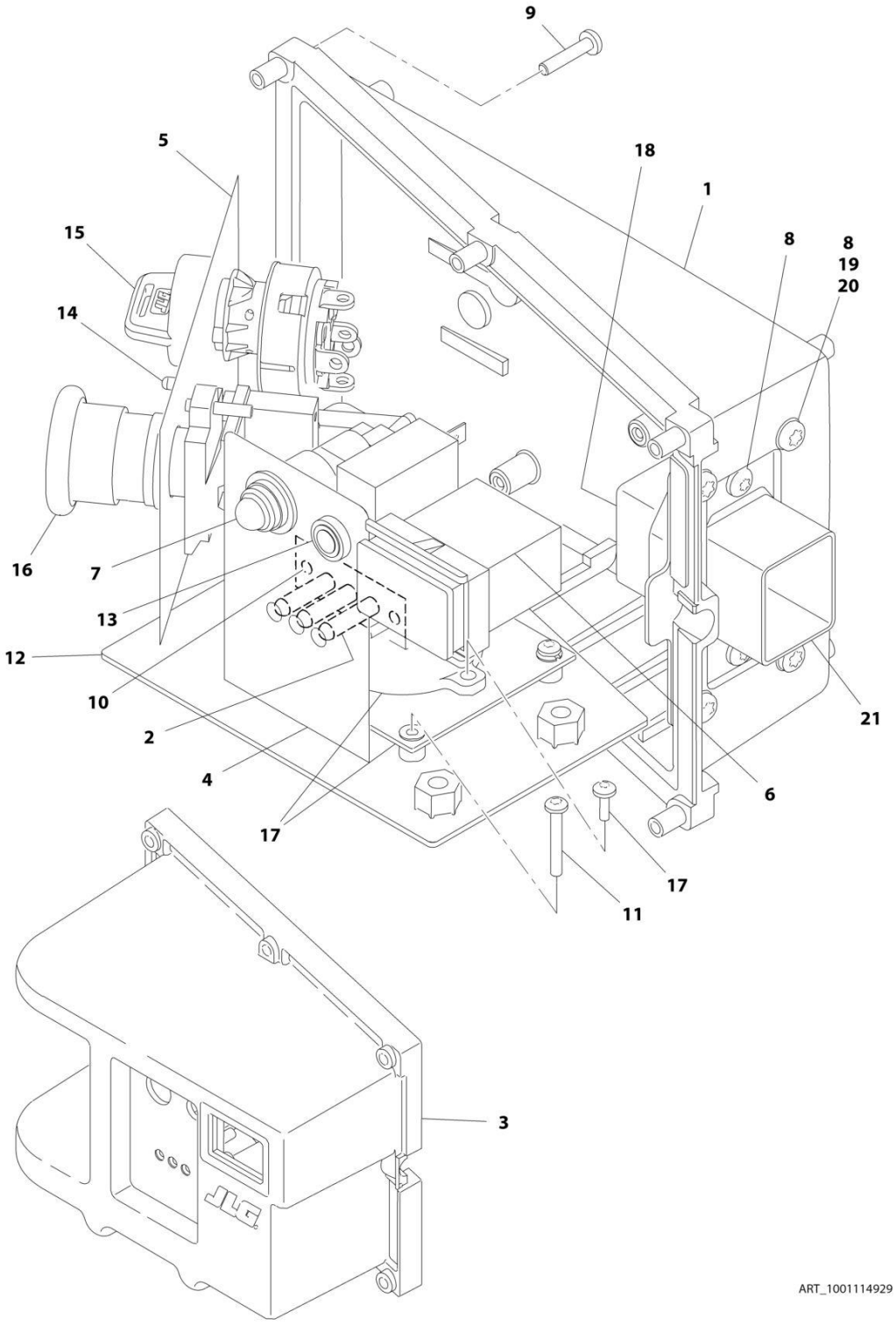


FIGURE 2-10. GROUND CONTROL BOX ASSEMBLY - NO LSS (SN B200020297 through B200023345)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114929	Ref	GROUND CONTROL BOX ASSEMBLY - NO LSS	B
1	0380025	1	Box, Ground Control	
2	0610161	1	Board, PC (Battery Charger LED)	
3	1671105	1	Cover, Front	
4	1705696	1	Decal - LED	
5	1705698	1	Decal - Function	
6	2420172	1	Hourmeter	
7	3520193	1	Plug	
8	3900336	6	Screw #10-32 x 1/2	
9	3900338	6	Screw M4 x 20	
10	3900339	2	Screw #6 x 1/2	
11	3900356	4	Screw M3.5 x 16	
12	4340739	1	Plate, Mounting	
13	4360069	1	Breaker, Circuit - 10Amp	
14	4360328	1	Switch, Toggle	
15	4360469	1	Switch, Key	
15	2860030	1	Key, Replacement (Fits All Specs)	
16	4360475	1	Switch, Emergency Stop	
16	7020175	1	Cap	
16	7020176	1	Block, Contact	
17	1001114933	NLA	Module, Tilt (Includes Module, Mounting Plate and Hardware) (Use p/n 1001169392)	
18	1001114937	1	Mount, Harness Bulkhead (Ground Control)	
19	3321005	4	Nut #10	
20	4751000	4	Washer #10	
21	1001114935	1	Harness, Control Box (See ELECTRICAL SECTION for Breakdown)	

FIGURE 2-11. GROUND CONTROL BOX ASSEMBLY - LSS (ALL SPECS EXCEPT CE SPECS) (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

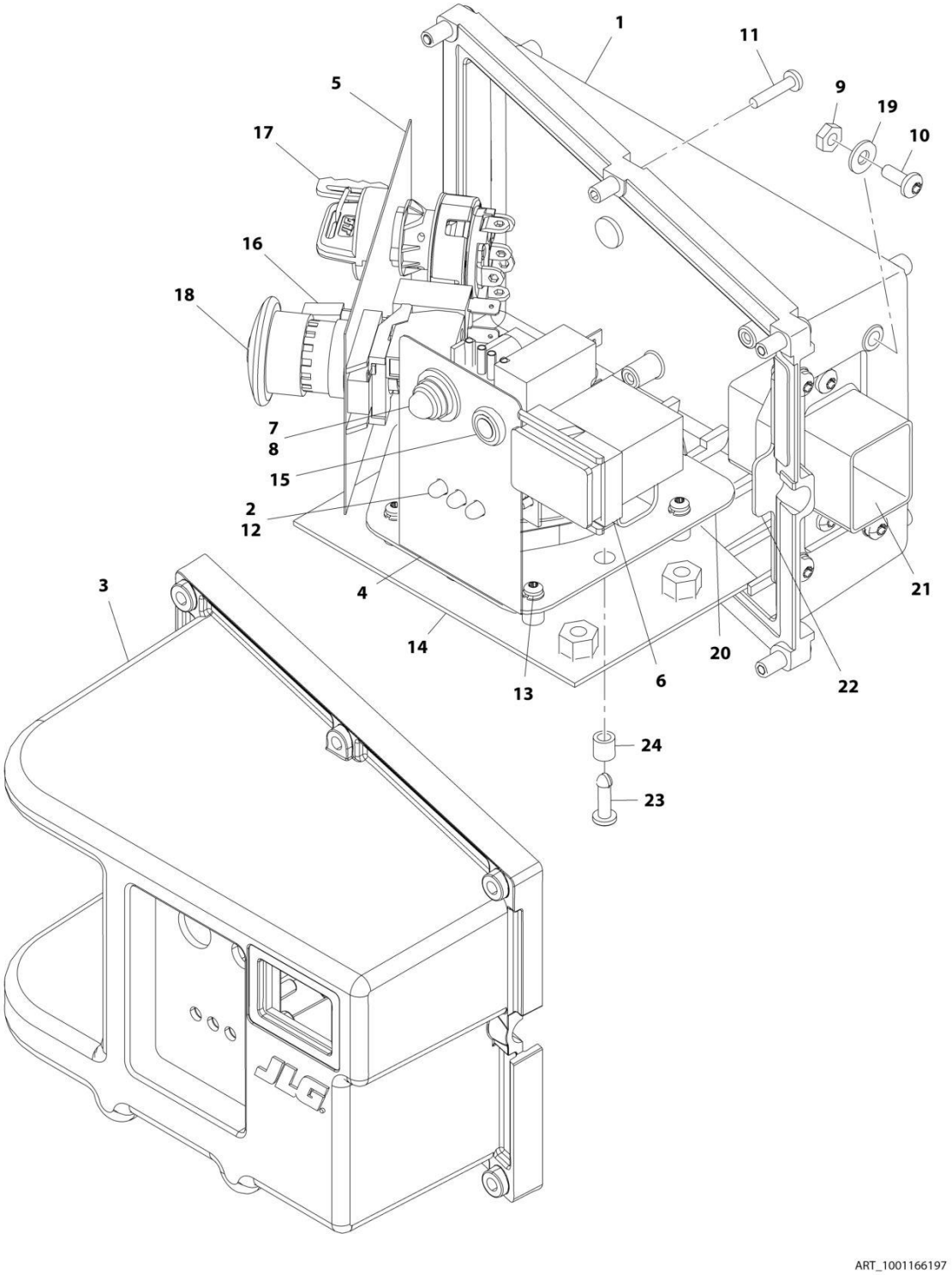


FIGURE 2-11. GROUND CONTROL BOX ASSEMBLY - LSS (ALL SPECS EXCEPT CE SPECS) (SN 0200239382 to Present, SN B200023346 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166197	Ref	GROUND CONTROL BOX ASSEMBLY - LSS	E
1	0380025	1	Base, Box	
2	0610161	1	PC Board, Charger LED	
2	4460321	1	Plug, Male - 4 Position	
2	4460268	3	Socket, Female	
3	1671105	1	Cover	
4	1705697	1	Decal	
5	1705698	1	Decal	
6	2420172	1	Hourmeter	
7	2920026	1	Lamp	
8	2920094	1	Bulb	
9	3321005	4	Nut #10	
10	3900336	6	Screw	
11	3900338	6	Screw	
12	3900339	2	Screw	
13	1001180090	4	Screw M3.5 x 20	
14	1001165315	1	Support	
15	4360069	1	Breaker, Circuit 10Amp	
16	4360328	1	Switch, Toggle	
17	4360469	1	Switch, Key	
17	2860030	1	Key, Replacement	
18	4360475	1	Switch, Emergency Stop	
18	7020175	1	Cap	
18	7020176	1	Block, Contact	
19	4751000	4	Washer #10	
20	1001166255	1	Sensor, Tilt (Includes Sensor, Mounting Plate and Hardware)	
20	3931412	3	Screw 1/4 x 3/4	
20	1001163095	1	Sensor	
20	1001165316	1	Mount, Sensor	
20	1001166776	4	Mount, Standoff	
21	1001167256	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL SECTION)	
22	1001114937	1	Mount, Harness	
23	1001165284	1	Fastener	
24	1001165286	1	Spacer	

FIGURE 2-12. GROUND CONTROL BOX ASSEMBLY - LSS (ALL SPECS EXCEPT CE SPECS) (SN B200020297 through B200023345)

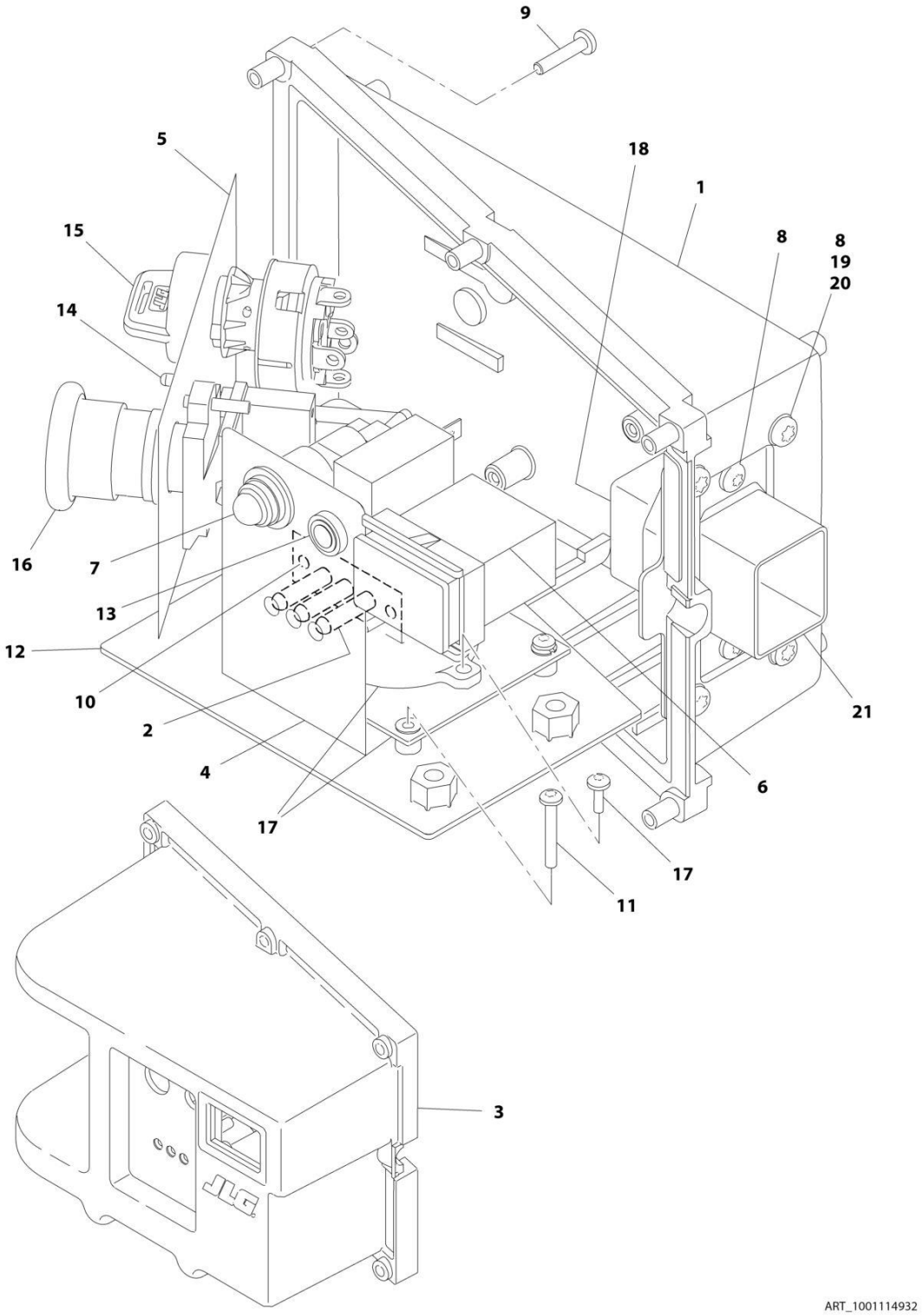


FIGURE 2-12. GROUND CONTROL BOX ASSEMBLY - LSS (ALL SPECS EXCEPT CE SPECS) (SN B200020297 through B200023345)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114932	Ref	GROUND CONTROL BOX ASSEMBLY - LSS	B
1	0380025	1	Box, Ground Control	
2	0610161	1	Board, PC (Battery Charger LED)	
3	1671105	1	Cover, Front	
4	1705697	1	Decal - LED	
5	1705698	1	Decal - Function	
6	2420172	1	Hourmeter	
7	2920026	1	Lamp	
7	2920094	AR	Bulb	
8	3900336	6	Screw #10-32NF x 1/2	
9	3900338	6	Screw M4 x 20	
10	3900339	2	Screw #6 x 1/2	
11	3900356	4	Screw M3.5 x 16	
12	4340739	1	Plate, Mounting	
13	4360069	1	Breaker, Circuit - 10 Amp	
14	4360328	1	Switch, Toggle	
15	4360469	1	Switch, Key	
15	2860030	1	Key, Replacement (Fits All Specs)	
16	4360475	1	Switch, Emergency Stop	
16	7020175	1	Cap	
16	7020176	1	Block, Contact	
17	1001114933	NLA	Module, Tilt (Includes Module, Mounting Plate and Hardware) (Use p/n 1001169392)	
18	1001114937	1	Mount, Harness Bulkhead (Ground Control)	
19	3321005	4	Nut #10-32NF	
20	4751000	4	Washer #10	
21	1001114935	1	Harness, Control Box (See ELECTRICAL SECTION for Breakdown)	

FIGURE 2-13. GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) (SN 0200239382 through 0200241828)

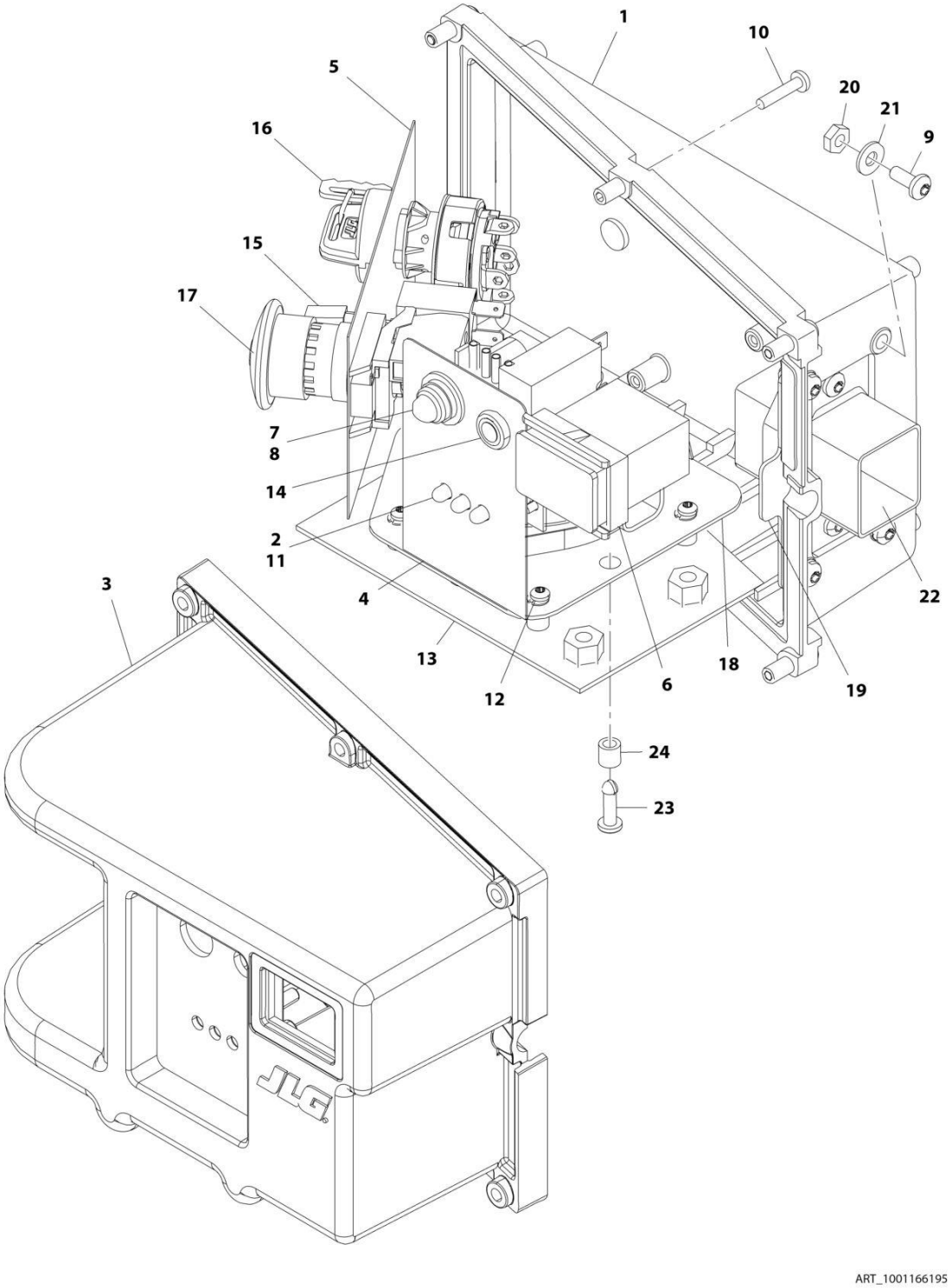


FIGURE 2-13. GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) (SN 0200239382 through 0200241828)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166195	Ref	GROUND CONTROL BOX ASSEMBLY - LSS	G
1	0380025	1	Base, Box	
2	0610161	1	PC Board, Charger LED	
2	4460321	1	Plug, Male - 4 Position	
2	4460268	3	Socket, Female	
3	1671105	1	Cover	
4	1705697	1	Decal	
5	1705698	1	Decal	
6	2420172	1	Hourmeter	
7	2920026	1	Lamp	
8	2920094	1	Bulb	
9	3900336	6	Screw	
10	3900338	6	Screw	
11	3900339	2	Screw	
12	1001180090	4	Screw M3.5 x 20	
13	1001165315	1	Support	
14	4360069	1	Breaker, Circuit 10Amp	
15	4360328	1	Switch, Toggle	
16	4360470	1	Switch, Key	
16	2860030	1	Key, Replacement	
17	4360475	1	Switch, Emergency Stop	
17	7020175	1	Cap	
17	7020176	1	Block, Contact	
18	1001166255	1	Sensor, Tilt (Includes Sensor, Mounting Plate and Hardware)	
18	3931412	3	Screw 1/4 x 3/4	
18	1001163095	1	Sensor	
18	1001165316	1	Mount, Sensor	
18	1001166776	4	Mount, Standoff	
19	1001114937	1	Mount, Harness	
20	3321005	4	Nut #10-32	
21	4751000	4	Washer #10	
22	1001167256	1	Harness, Ground Control Box (See ELECTRICAL SECTION for Breakdown)	
23	1001165284	1	Fastener	
24	1001165286	1	Spacer	

SECTION 2 - GROUND COMPONENTS

FIGURE 2-14. GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) (SN B200020297 through B200021650)

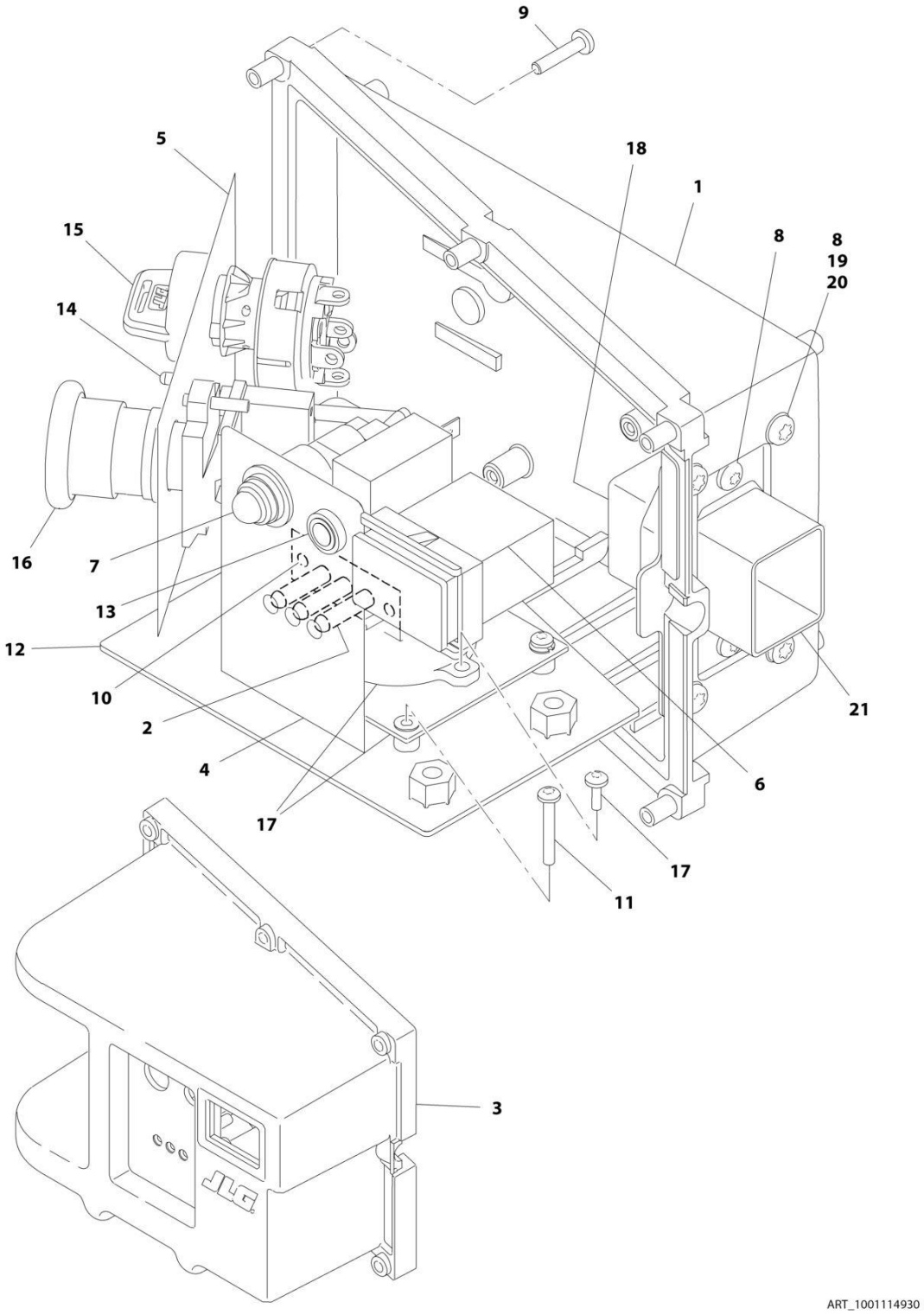


FIGURE 2-14. GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) (SN B200020297 through B200021650)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114930	Ref	GROUND CONTROL BOX ASSEMBLY - LSS	B
1	0380025	1	Box, Ground Control	
2	0610161	1	Board, PC (Battery Charger LED)	
3	1671105	1	Cover, Front	
4	1705697	1	Decal - LED	
5	1705698	1	Decal - Function	
6	2420172	1	Hourmeter	
7	2920026	1	Lamp	
7	2920094	AR	Bulb	
8	3900336	6	Screw #10-32 x 1/2	
9	3900338	6	Screw M4 x 20	
10	3900339	2	Screw #6 x 1/2	
11	3900356	4	Screw M3.5 x 16	
12	4340739	1	Plate, Mounting	
13	4360069	1	Breaker, Circuit - 10 Amp	
14	4360328	1	Switch, Toggle	
15	4360470	1	Switch, Key	
15	2860030	1	Key, Replacement (Fits All Specs)	
16	4360475	1	Switch, Emergency Stop	
16	7020175	1	Cap	
16	7020176	1	Block, Contact	
17	1001114933	NLA	Module, Tilt (Includes Module, Mounting Plate and Hardware) (Use p/n 1001169392)	
18	1001114937	1	Mount, Harness Bulkhead (Ground Control)	
19	3321005	4	Nut #10-32	
20	4751000	4	Washer #10	
21	1001114935	1	Harness, Control Box (See ELECTRICAL SECTION for Breakdown)	

FIGURE 2-15. GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) (SN 0200241829 to Present, SN 1200025021 to Present, SN B200021651 to Present, SN M200000100 to Present)

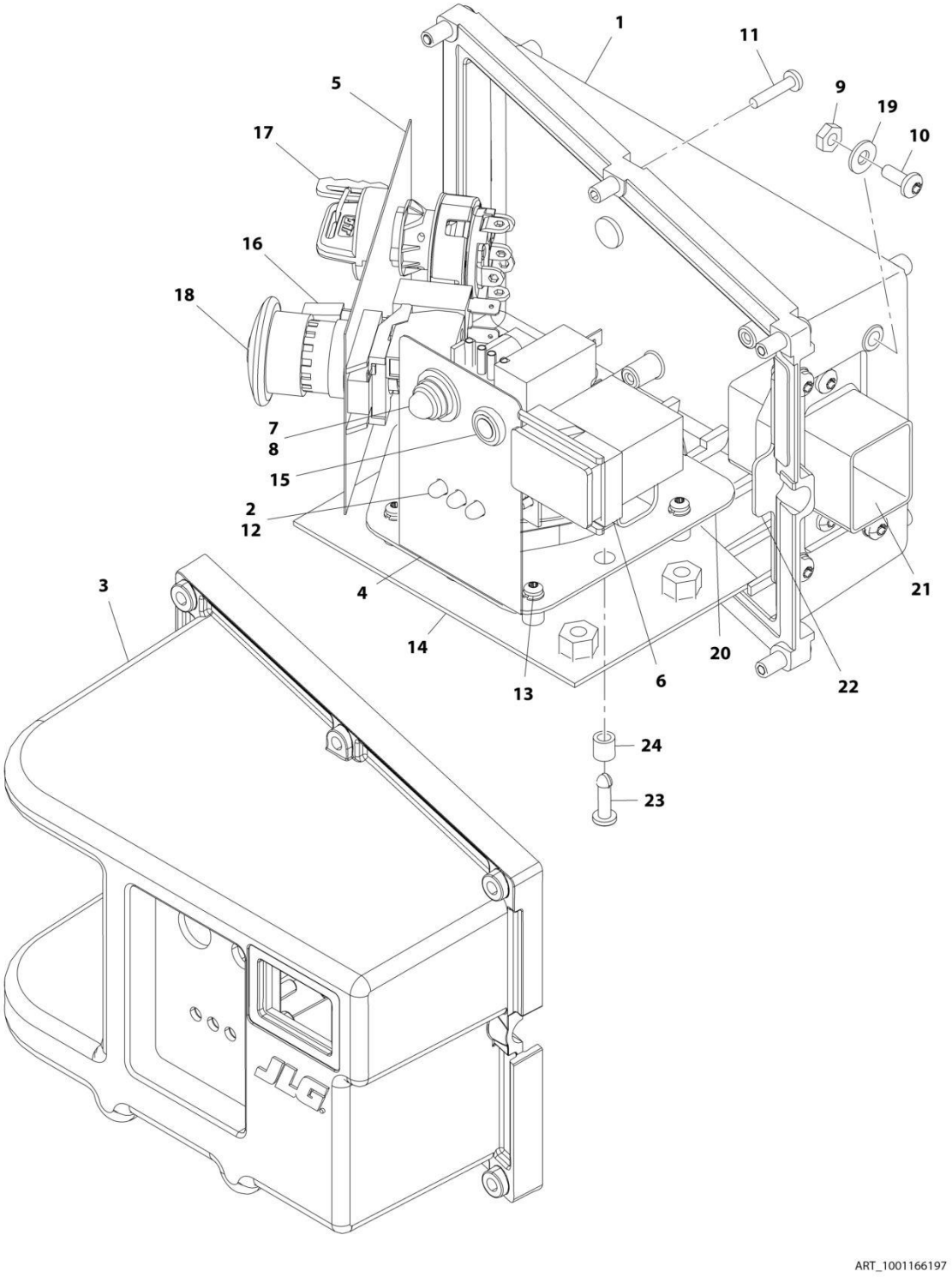


FIGURE 2-15. GROUND CONTROL BOX ASSEMBLY - LSS (CE SPECS) (SN 0200241829 to Present, SN 1200025021 to Present, SN B200021651 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001166197	Ref	GROUND CONTROL BOX ASSEMBLY - LSS	F
1	0380025	1	Base, Box	
2	0610161	1	PC Board, Charger LED	
2	4460321	1	Plug, Male - 4 Position	
2	4460268	3	Socket, Female	
3	1671105	1	Cover	
4	1705697	1	Decal	
5	1705698	1	Decal	
6	2420172	1	Hourmeter	
7	2920026	1	Lamp	
8	2920094	1	Bulb	
9	3321005	4	Nut #10	
10	3900336	6	Screw	
11	3900338	6	Screw	
12	3900339	2	Screw	
13	1001180090	4	Screw M3.5 x 20	
14	1001165315	1	Support	
15	4360069	1	Breaker, Circuit 10Amp	
16	4360328	1	Switch, Toggle	
17	4360469	1	Switch, Key	
17	2860030	1	Key, Replacement	
18	4360475	1	Switch, Emergency Stop	
18	7020175	1	Cap	
18	7020176	1	Block, Contact	
19	4751000	4	Washer #10	
20	1001166255	1	Sensor, Tilt (Includes Sensor, Mounting Plate and Hardware)	
20	3931412	3	Screw 1/4 x 3/4	
20	1001163095	1	Sensor	
20	1001165316	1	Mount, Sensor	
20	1001166776	4	Mount, Standoff	
21	1001167256	1	Harness, Ground Control Box (See Separate Breakdown in ELECTRICAL SECTION)	
22	1001114937	1	Mount, Harness	
23	1001165284	1	Fastener	
24	1001165286	1	Spacer	

FIGURE 2-16. BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (NON-LOCKING COVERS)

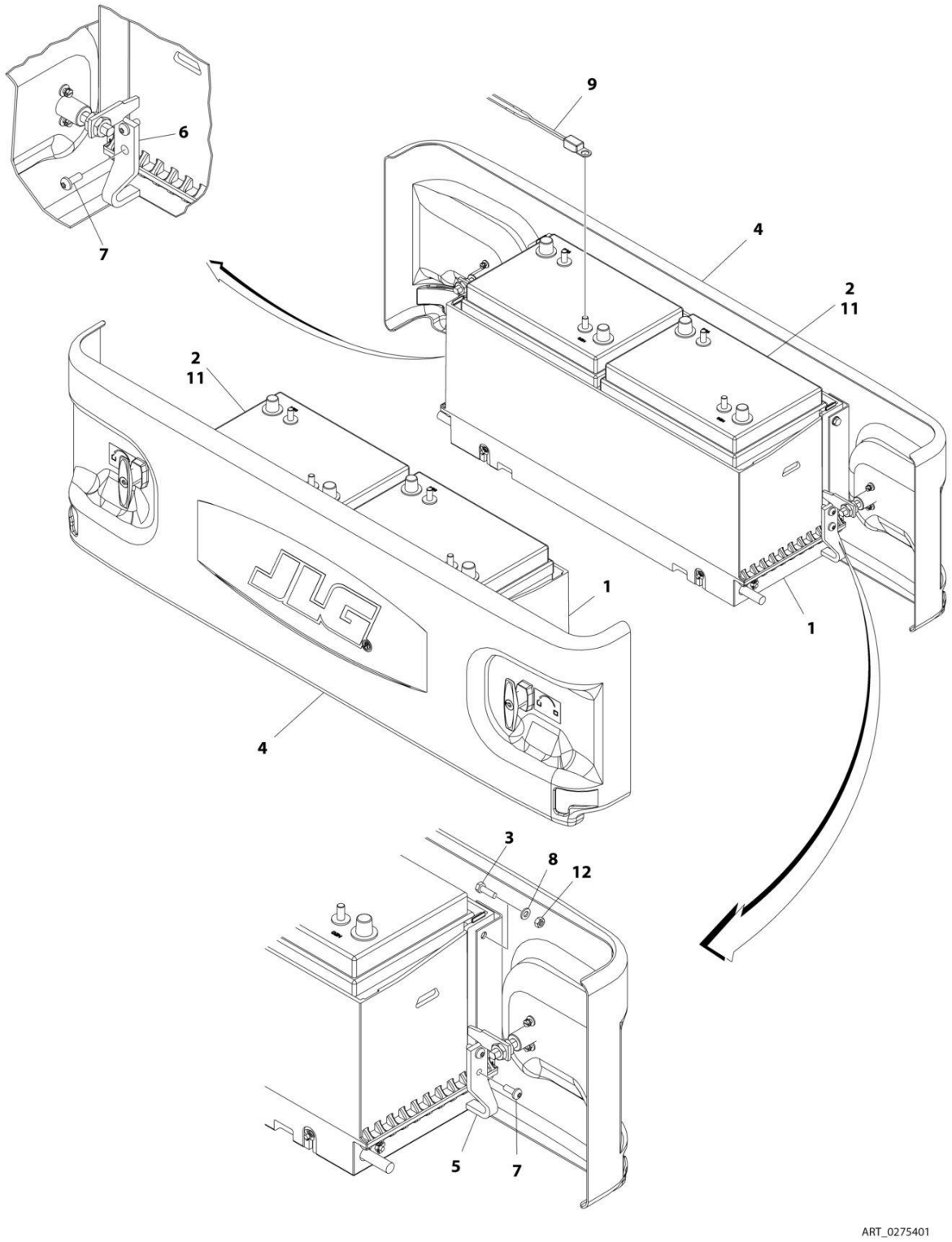


FIGURE 2-16. BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (NON-LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275401	Ref	BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (NON-LOCKING COVERS)	F
1	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
2	1001112112	4	Battery Type EVGC6A-A	
3	0760610	8	Bolt M6 x 20	
3	1001100451	8	Bolt M6 x 20	
4	1671202	2	Cover Assembly (See BATTERY COVER ASSEMBLY - NON-LOCKING for Breakdown)	
5	3574981	2	Plate, Slide Stop (LH)	
6	3574984	2	Plate, Slide Stop (RH)	
7	4191707	8	Screw M6 x 16	
8	4811700	8	Washer M6	
9	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN 1200025021 through 1200026952, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
11	0100051	AR	Grease, Terminal	
12	3290605	8	Nut M6	

FIGURE 2-17. BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (NON-UL LOCKING COVERS)

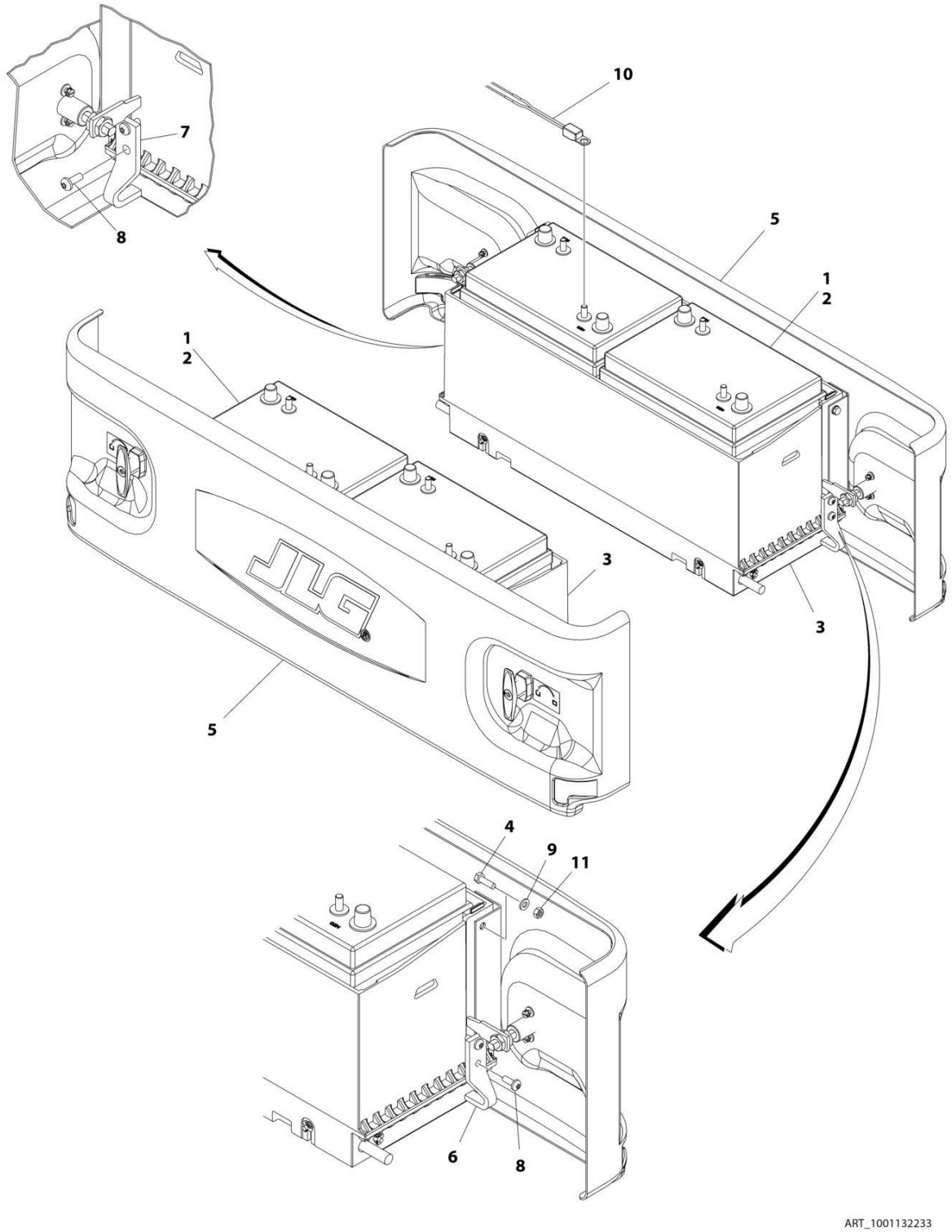


FIGURE 2-17. BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (NON-UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001132233	Ref	BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (NON-UL LOCKING COVERS)	D
1	0100051	AR	Grease, Terminal	
2	1001112112	4	Battery Type EVGC6A-A	
3	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
4	0760610	8	Bolt M6 x 20	
4	1001100451	8	Bolt M6 x 20	
5	1671204	2	Cover Assembly (See BATTERY COVER ASSEMBLY - LOCKING for Breakdown)	
6	3574981	2	Plate, Slide Stop (LH)	
7	3574984	2	Plate, Slide Stop (RH)	
8	4191707	8	Screw M6 x 16	
9	4811700	8	Washer M6	
10	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN 1200025021 through 1200026952, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
11	3290605	8	Nut M6	

FIGURE 2-18. BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (UL LOCKING COVERS)

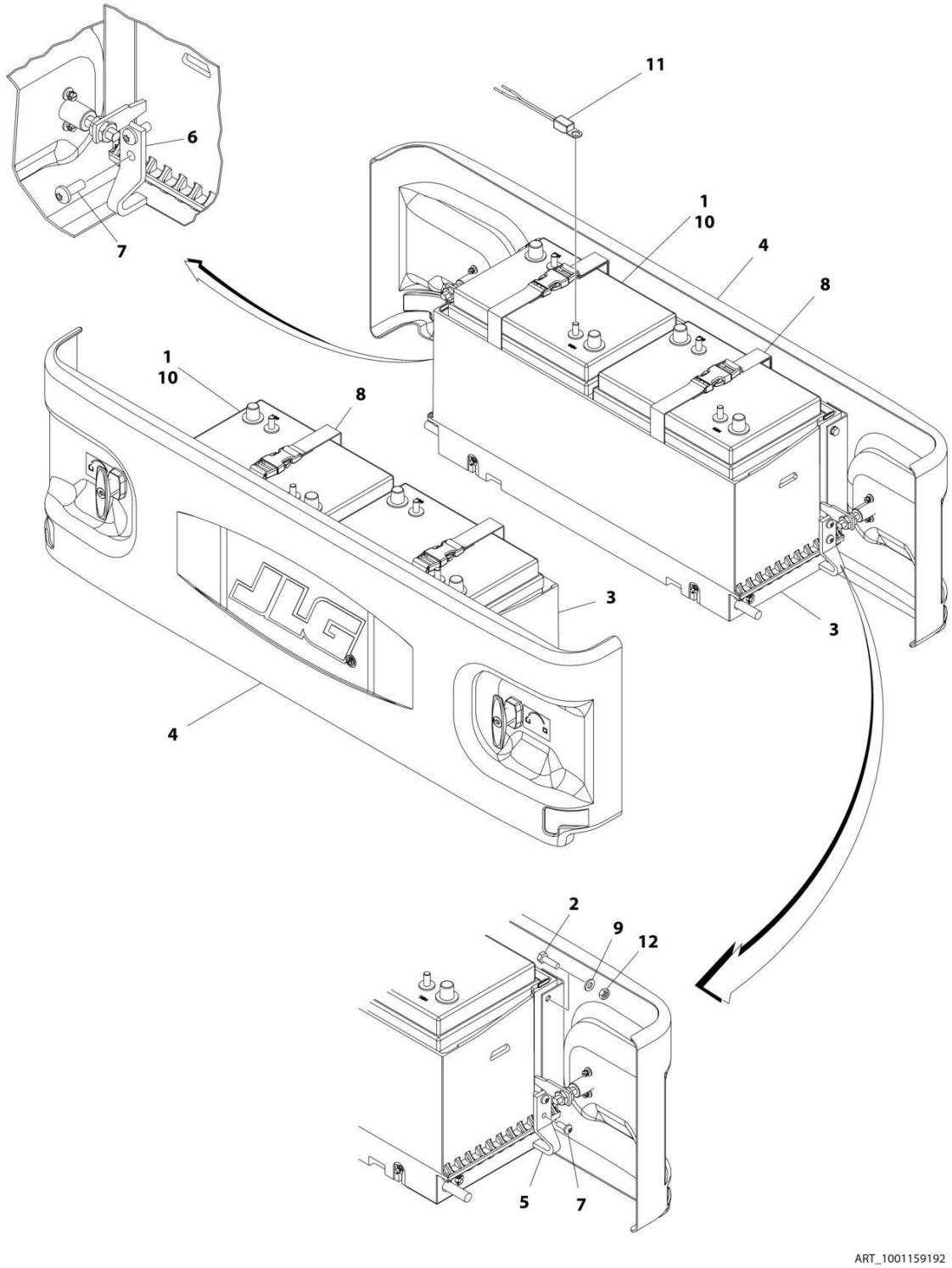


FIGURE 2-18. BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001159192	Ref	BATTERIES INSTALLATION - AGM AND EVG TYPE - 225 AH RATING (UL LOCKING COVERS)	D
1	0100051	AR	Grease, Terminal	
2	0760610	8	Bolt M6 x 20	
2	1001100451	8	Bolt M6 x 20	
3	0861678	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - UL for Breakdown)	
4	1671204	2	Cover Assembly (See BATTERY COVER ASSEMBLY - LOCKING for Breakdown)	
5	3574981	2	Plate, Slide Stop (LH)	
6	3574984	2	Plate, Slide Stop (RH)	
7	4191707	8	Screw M6 x 16	
8	4240172	4	Strap, Battery	
9	4811700	8	Washer M6	
10	1001112112	4	Battery Type EVGC6A-A	
11	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
12	3290605	8	Nut M6	

FIGURE 2-19. BATTERIES INSTALLATION - AGM VISION AND EVG TYPE - 220 AH RATING (NON-LOCKING COVERS)

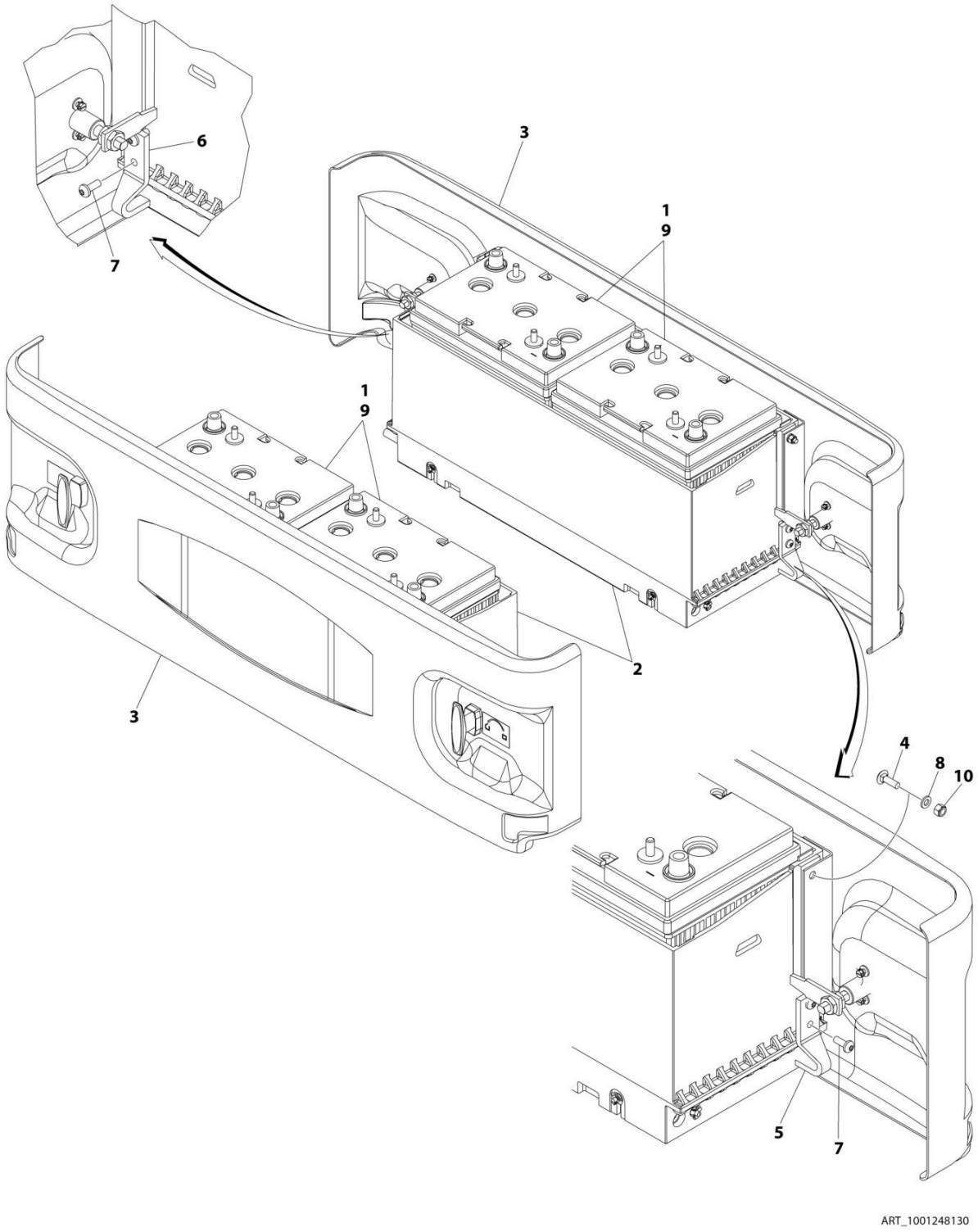


FIGURE 2-19. BATTERIES INSTALLATION - AGM VISION AND EVG TYPE - 220 AH RATING (NON-LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248130	Ref	BATTERIES INSTALLATION - AGM VISION AND EVG TYPE - 220 AH RATING (UL LOCKING COVERS)	A
1	0100051	AR	Grease, Terminal	
2	0273698	2	Tray Assembly (See Separate Breakdown in this Section)	
3	1671202	2	Cover Assembly (See Separate Breakdown in this Section)	
4	1001100451	8	Bolt M6 x 20	
5	3574981	2	Plate, Slide Stop (LH)	
6	3574984	2	Plate, Slide Stop (RH)	
7	4191707	8	Screw M6 x 16	
8	4811700	8	Washer M6	
9	1001214347	4	Battery Type EVGC-220A-AM	
10	3290605	8	Nut M6	

FIGURE 2-20. BATTERIES INSTALLATION - AGM VISION AND EVG TYPE - 220 AH RATING (NON-UL LOCKING COVERS)

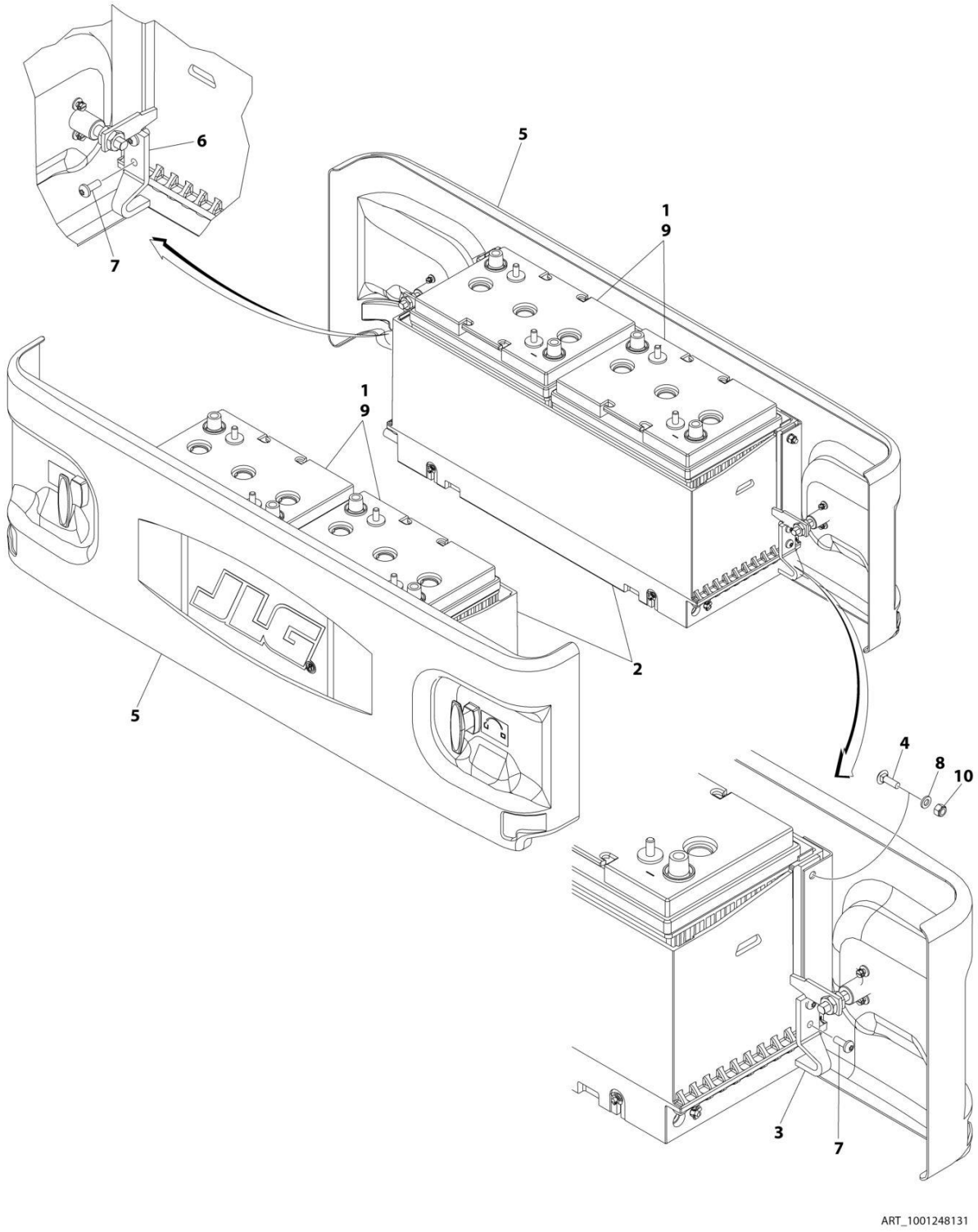


FIGURE 2-20. BATTERIES INSTALLATION - AGM VISION AND EVG TYPE - 220 AH RATING (NON-UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248131	Ref	BATTERIES INSTALLATION - AGM VISION AND EVG TYPE - 220 AH RATING (NON-UL LOCKING COVERS)	A
1	0100051	AR	Grease, Terminal	
2	0273698	2	Tray Assembly (See Separate Breakdown in this Section)	
3	3574981	2	Plate, Slide Stop (LH)	
4	1001100451	8	Bolt M6 x 20	
5	1671204	2	Cover Assembly (See Separate Breakdown in this Section)	
6	3574984	2	Plate, Slide Stop (RH)	
7	4191707	8	Screw M6 x 16	
8	4811700	8	Washer M6	
9	1001214347	4	Battery Type EVGC-220A-AM	
10	3290605	8	Nut M6	

FIGURE 2-21. BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (NON-LOCKING COVERS)

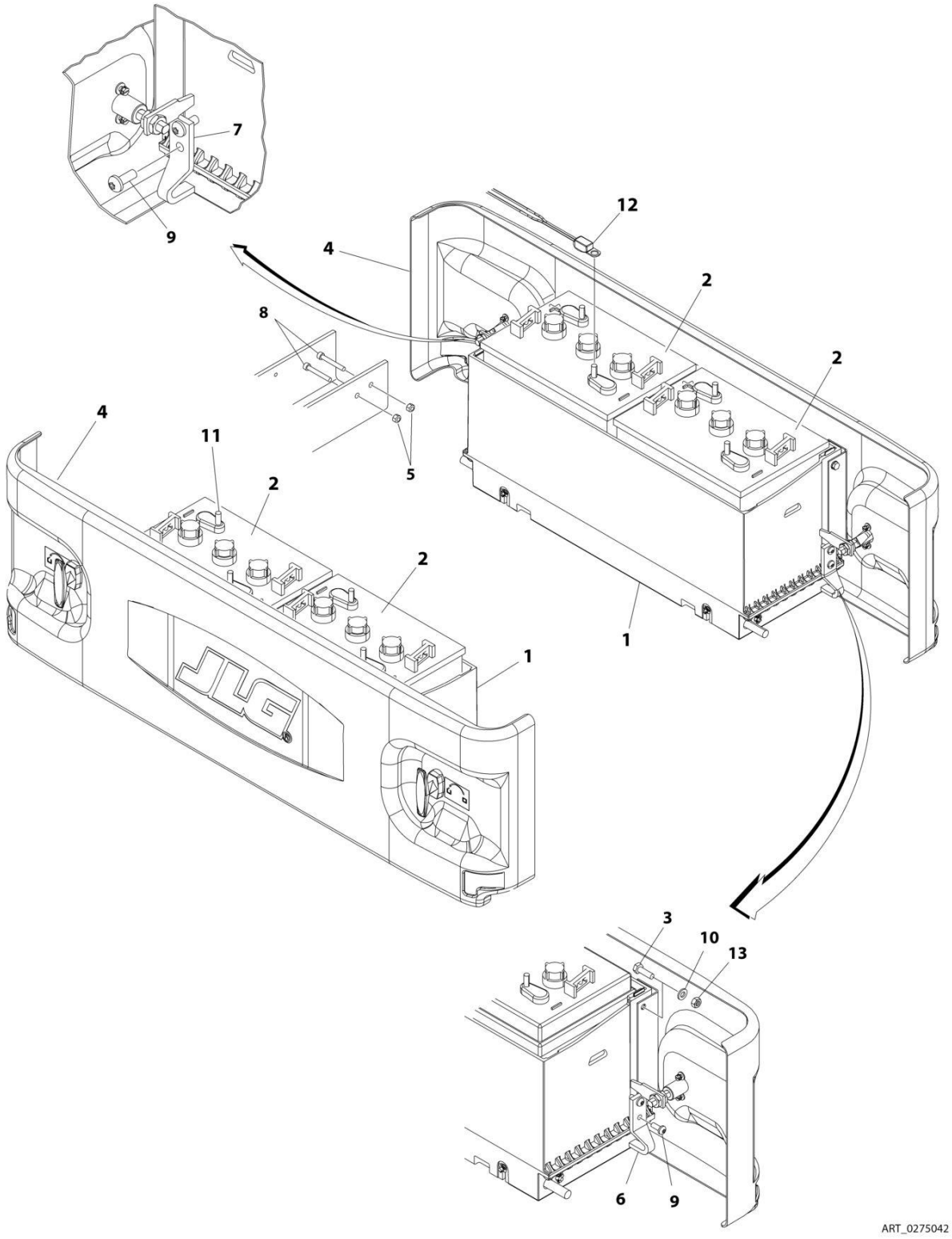


FIGURE 2-21. BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (NON-LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275042	Ref	BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (NON-LOCKING COVERS)	F
1	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
2	0400216	4	Battery Type EV-145-WNL	
3	0760610	8	Bolt M6 x 20	
3	1001100451	8	Bolt M6 x 20	
4	1671202	2	Cover Assembly (See BATTERY COVER ASSEMBLY - NON-LOCKING for Breakdown)	
5	3290605	2	Nut M6	
6	3574981	2	Plate, Slide Stop (LH)	
7	3574984	2	Plate, Slide Stop (RH)	
8	4031713	2	Capscrew M6 x 45	
9	4191707	8	Screw M6 x 16	
10	4811700	8	Washer M6	
11	0100051	AR	Grease, Terminal	
12	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN 1200025021 through 1200026952, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
13	3290605	8	Nut M6	

FIGURE 2-22. BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (NON-UL LOCKING COVERS)

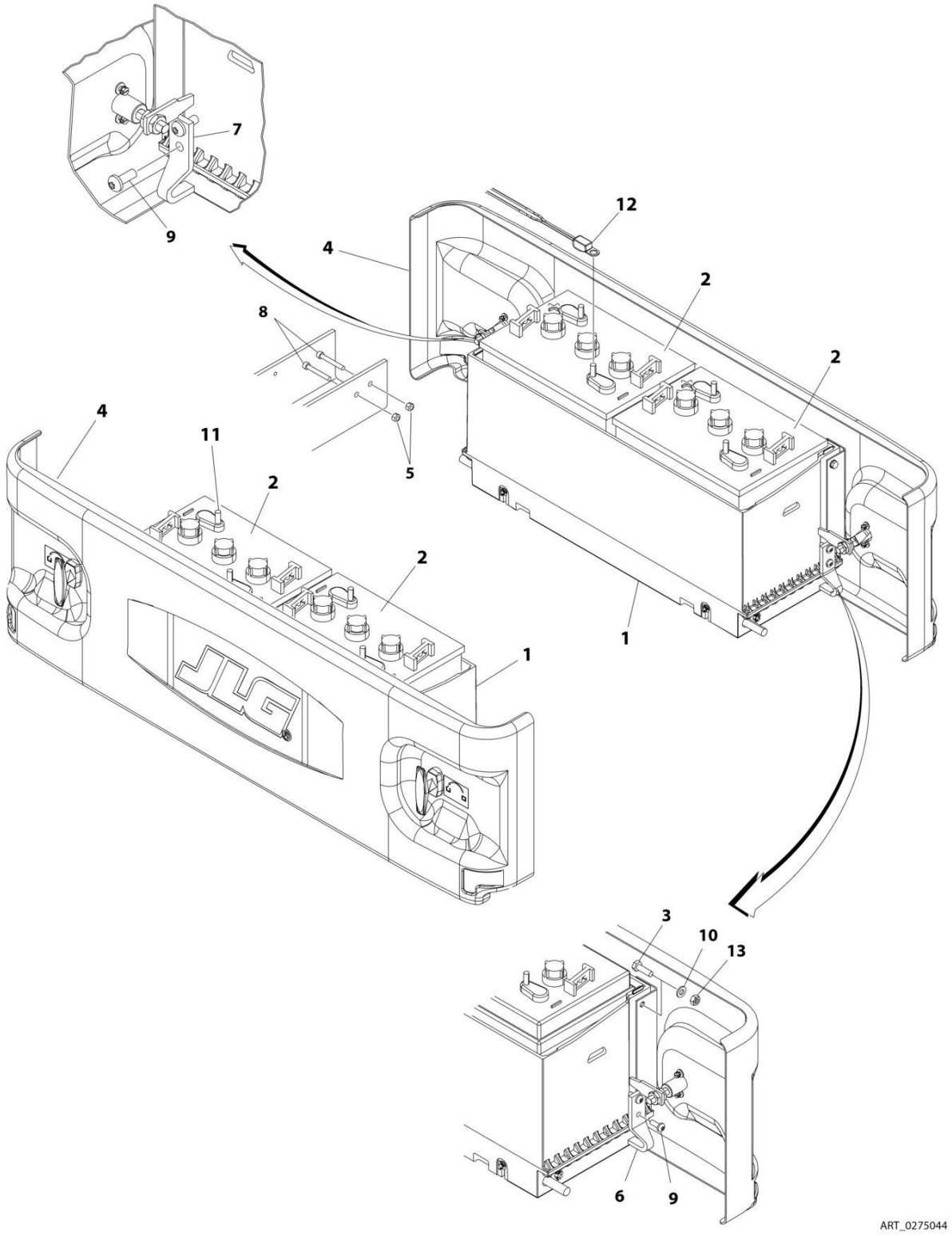


FIGURE 2-22. BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (NON-UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275044	Ref	BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (NON-UL LOCKING COVERS)	F
1	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
2	0400216	4	Battery Type EV-145-WNL	
3	0760610	8	Bolt M6 x 20	
3	1001100451	8	Bolt M6 x 20	
4	1671204	2	Cover Assembly (See BATTERY COVER ASSEMBLY - LOCKING for Breakdown)	
5	3290605	2	Nut M6	
6	3574981	2	Plate, Slide Stop (LH)	
7	3574984	2	Plate, Slide Stop (RH)	
8	4031713	2	Capscrew M6 x 45	
9	4191707	8	Screw M6 x 16	
10	4811700	8	Washer M6	
11	0100051	AR	Grease, Terminal	
12	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN 1200025021 through 1200026952, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
13	3290605	8	Nut M6	

FIGURE 2-23. BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (UL LOCKING COVERS)

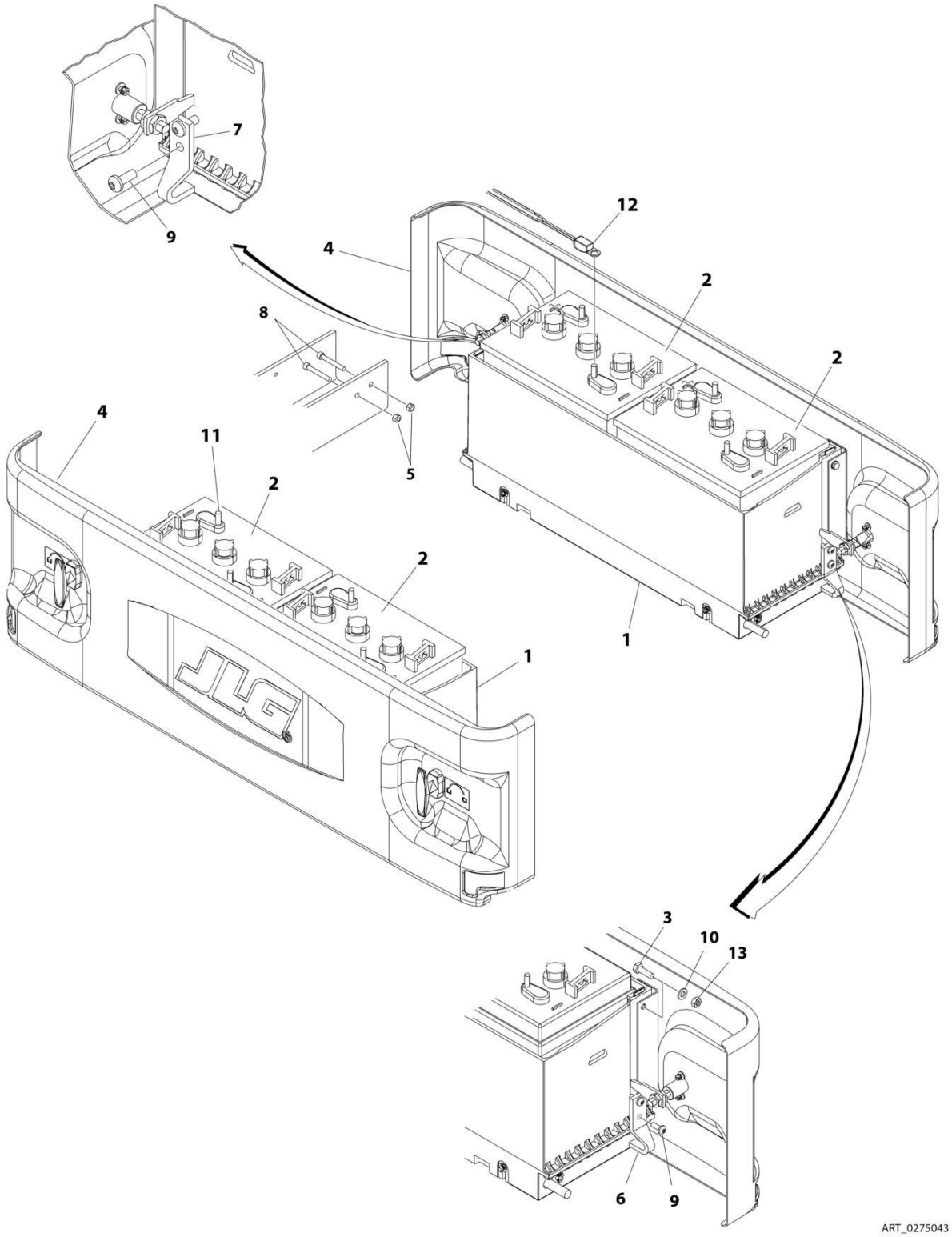


FIGURE 2-23. BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275043	Ref	BATTERIES INSTALLATION - EV TYPE - 244 AH RATING (UL LOCKING COVERS)	F
1	0861678	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - UL for Breakdown)	
2	0400216	4	Battery Type EV-145-WNL	
3	0760610	8	Bolt M6 x 20	
3	1001100451	8	Bolt M6 x 20	
4	1671204	2	Cover Assembly (See BATTERY COVER ASSEMBLY - LOCKING for Breakdown)	
5	3290605	2	Nut M6	
6	3574981	2	Plate, Slide Stop (LH)	
7	3574984	2	Plate, Slide Stop (RH)	
8	4031713	2	Capscrew M6 x 45	
9	4191707	8	Screw M6 x 16	
10	4811700	8	Washer M6	
11	0100051	AR	Grease, Terminal	
12	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
13	3290605	8	Nut M6	

FIGURE 2-24. BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (NON LOCKING COVERS)

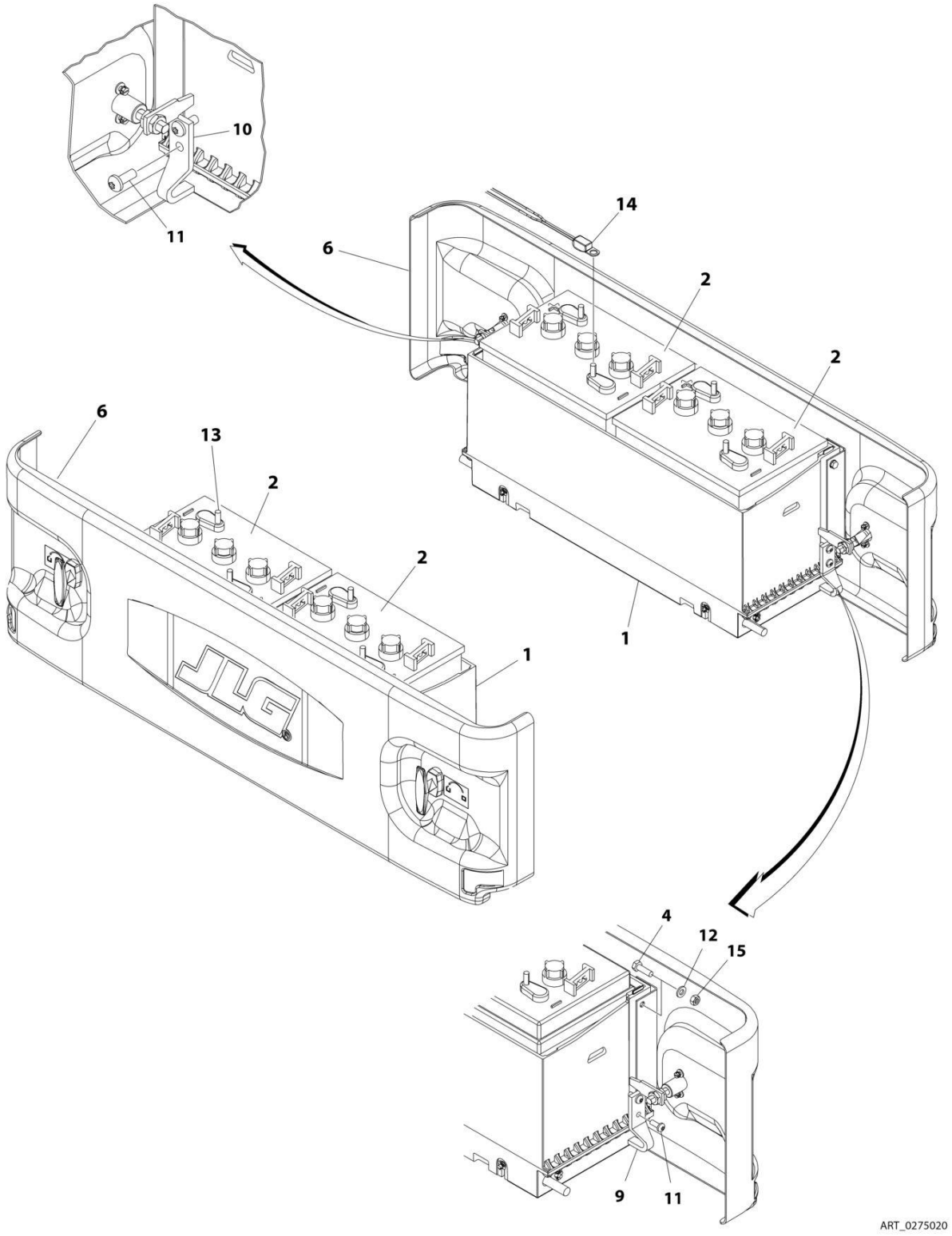


FIGURE 2-24. BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (NON LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275020	Ref	BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (NON LOCKING COVERS)	G
1	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
2	0400215	4	Battery Type GC-110-WNL	
4	0760610	8	Bolt M6 x 20	
4	1001100451	8	Bolt M6 x 20	
6	1671202	2	Cover Assembly (See BATTERY COVER ASSEMBLY - NON-LOCKING for Breakdown)	
9	3574981	2	Plate, Slide Stop (LH)	
10	3574984	2	Plate, Slide Stop (RH)	
11	4191707	8	Screw M6 x 16	
12	4811700	8	Washer M6	
13	0100051	AR	Grease, Terminal	
14	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN 1200025021 through 1200026952, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
15	3290605	8	Nut M6	

FIGURE 2-25. BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (NON-UL LOCKING COVERS)

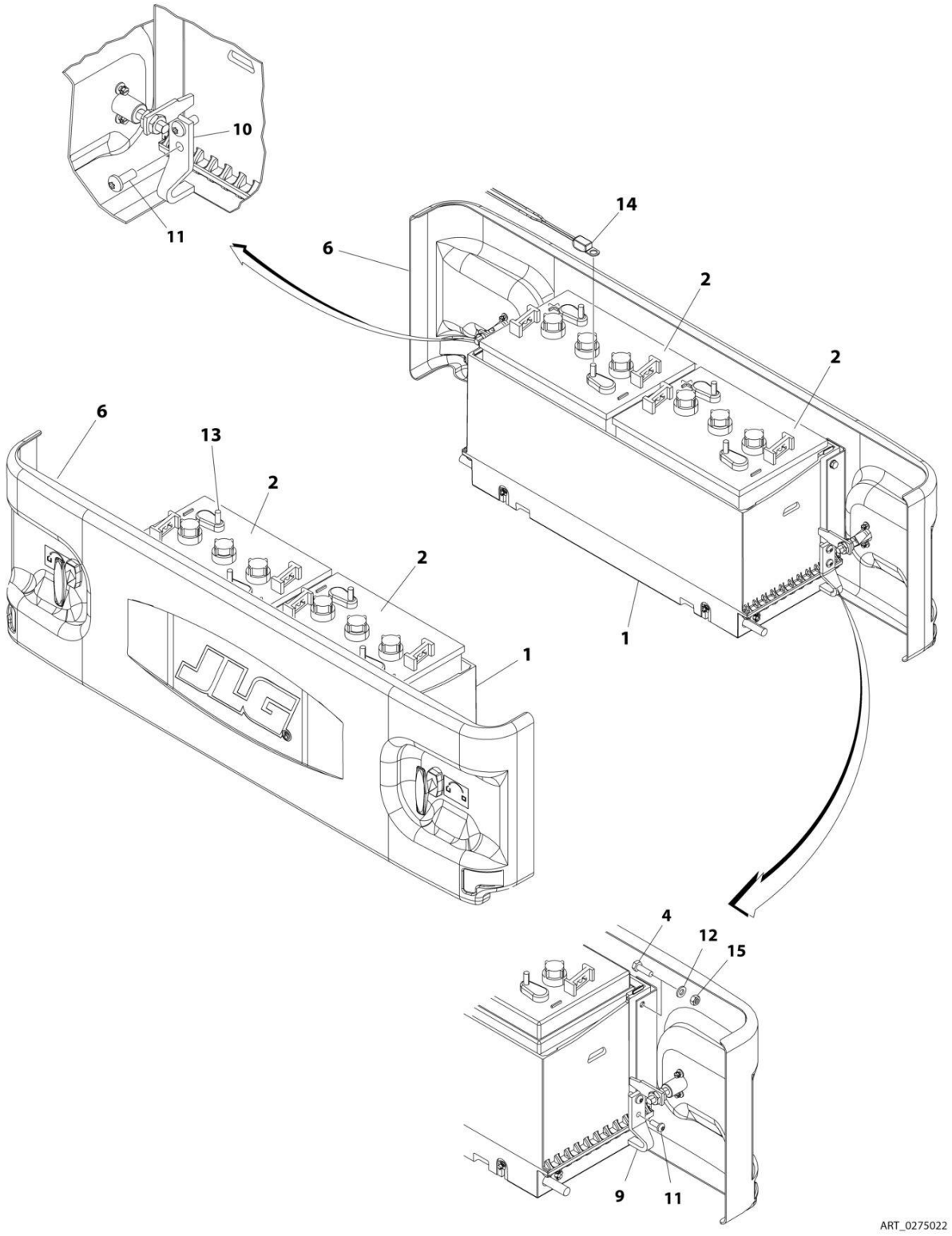


FIGURE 2-25. BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (NON-UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275022	Ref	BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (NON-UL LOCKING COVERS)	G
1	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
2	0400215	4	Battery Type GC-110-WNL	
4	0760610	8	Bolt M6 x 20	
4	1001100451	8	Bolt M6 x 20	
6	1671204	2	Cover Assembly (See BATTERY COVER ASSEMBLY - LOCKING for Breakdown)	
9	3574981	2	Plate, Slide Stop (LH)	
10	3574984	2	Plate, Slide Stop (RH)	
11	4191707	8	Screw M6 x 16	
12	4811700	8	Washer M6	
13	0100051	AR	Grease, Terminal	
14	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN 1200025021 through 1200026952, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
15	3290605	8	Nut M6	

FIGURE 2-26. BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (UL LOCKING COVERS)

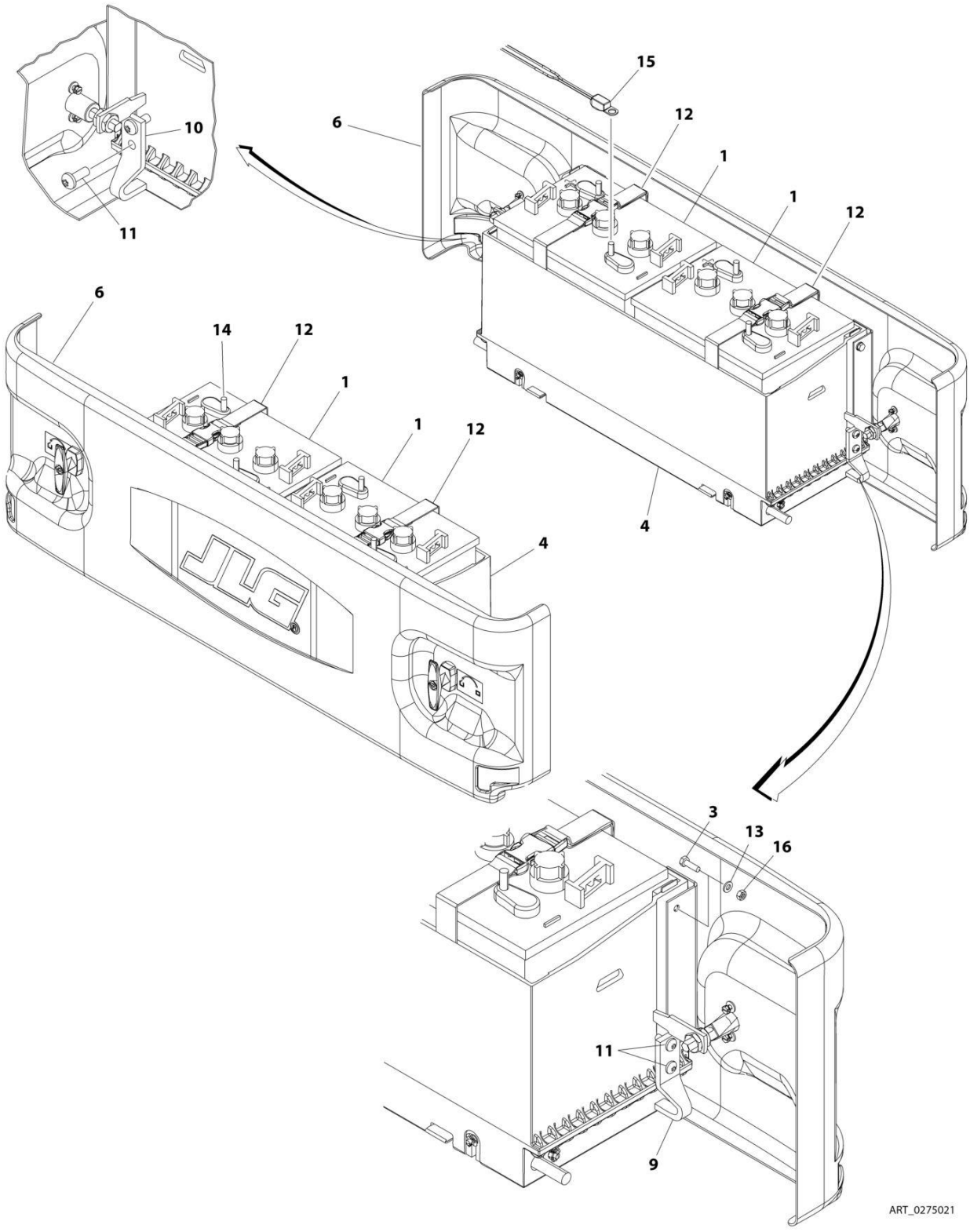


FIGURE 2-26. BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (UL LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275021	Ref	BATTERIES INSTALLATION - GC TYPE - 225 AH RATING (UL LOCKING COVERS)	G
1	0400215	4	Battery Type GC-110-WNL	
3	0760610	8	Bolt M6 x 20	
3	1001100451	8	Bolt M6 x 20	
4	0861678	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - UL for Breakdown)	
6	1671204	2	Cover Assembly (See BATTERY COVER ASSEMBLY - LOCKING for Breakdown)	
9	3574981	2	Plate, Slide Stop (LH)	
10	3574984	2	Plate, Slide Stop (RH)	
11	4191707	8	Screw M6 x 16	
12	4240172	2	Strap	
13	4811700	8	Washer M6	
14	0100051	AR	Grease, Terminal	
15	1001112113	1	Sensor, Temperature **(SN 0200239382 through 0200266434, SN B200020297 through B200045240, SN M200000100 through M200014363)**	
16	3290605	8	Nut M6	

FIGURE 2-27. BATTERIES INSTALLATION - 220 AH RATING WITHOUT BATTERIES (NON LOCKING COVERS)

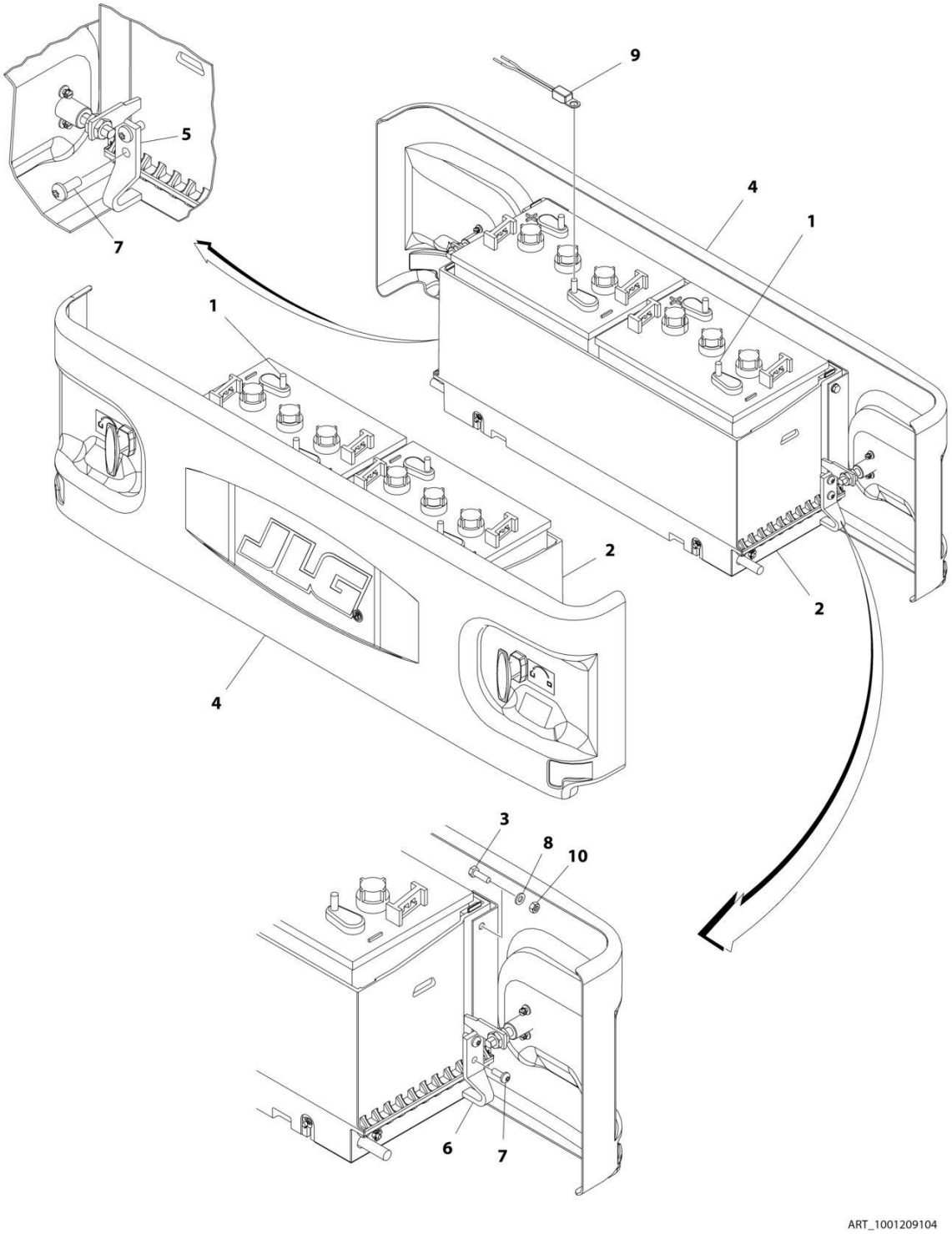


FIGURE 2-27. BATTERIES INSTALLATION - 220 AH RATING WITHOUT BATTERIES (NON LOCKING COVERS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209104	Ref	BATTERIES INSTALLATION - 220 AH RATING WITHOUT BATTERIES (NON LOCKING COVERS)	C
1	0100051	AR	Grease, Terminal	
2	0273698	2	Tray Assembly (See BATTERY TRAY ASSEMBLY - NON UL for Breakdown)	
3	0760610	8	Bolt M6 x 20	
3	1001100451	8	Bolt M6 x 20	
4	1671202	1	Cover Assembly (See BATTERY COVER ASSEMBLY - NON-LOCKING for Breakdown)	
5	3574981	2	Plate, Slide Stop (LH)	
6	3574984	2	Plate, Slide Stop (RH)	
7	4191707	8	Screw M6 x 16	
8	4811700	8	Washer M6	
9	1001112113	1	Sensor, Temperature **(SN B200020297 through B200045240)**	
10	3290605	8	Nut M6	

FIGURE 2-28. BATTERY TRAY ASSEMBLY - NON-UL

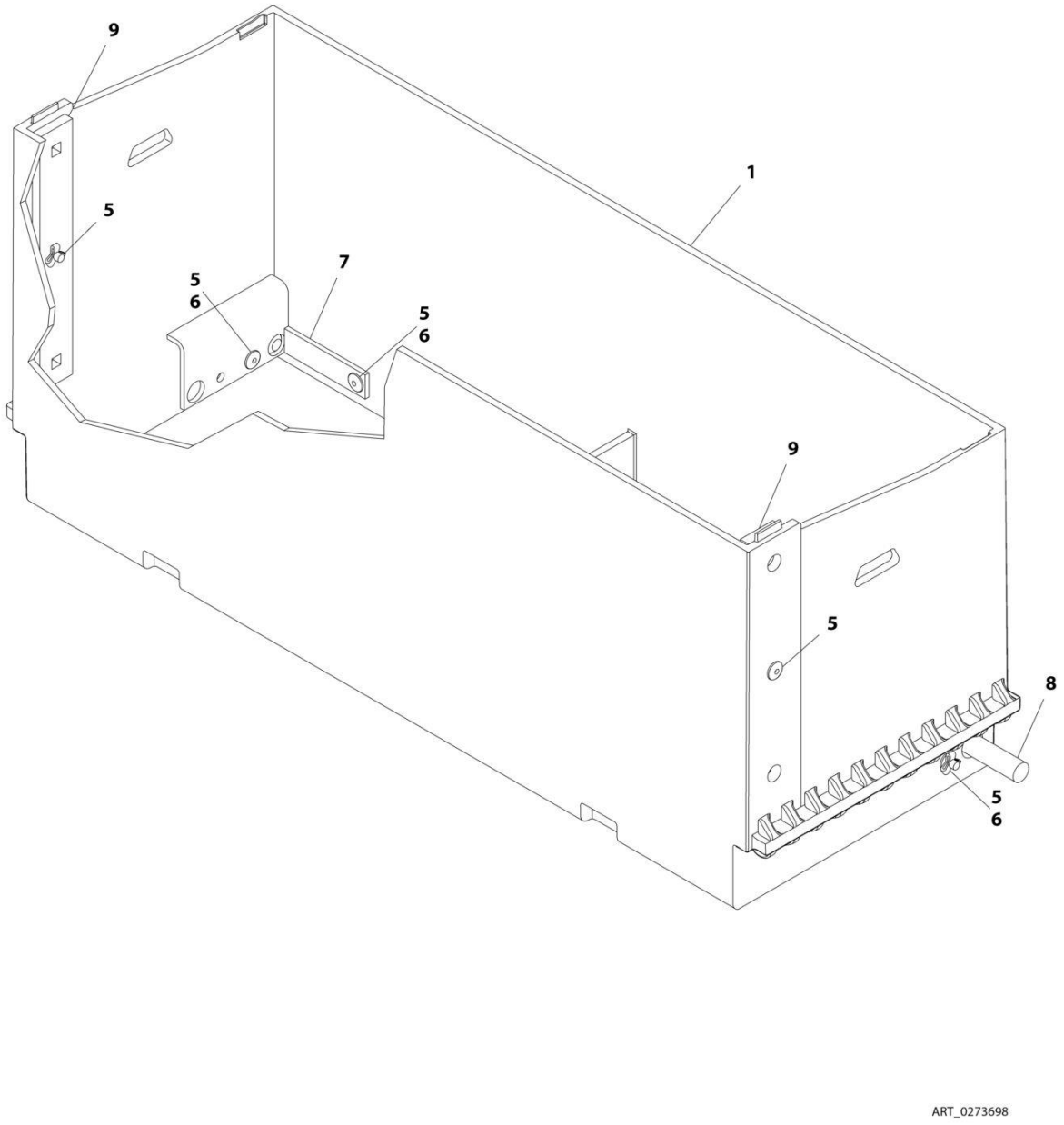


FIGURE 2-28. BATTERY TRAY ASSEMBLY - NON-UL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273698	Ref	BATTERY TRAY ASSEMBLY - NON-UL	K
1	0861650	1	Tray, Battery	
5	3820032	6	Rivet	
6	4811600	4	Washer M5	
7	4220252	1	Stop (LH)	
8	4220253	1	Stop (RH)	
9	3577076	2	Bar **(SN 0200239382 through 0200266381, SN 1200025021 through 1200030217, SN B200020297 through B200049756, SN M200000100 through M200026260)**	
9	1001233888	2	Bar **(SN 0200266382 to Present, SN 1200030218 to Present, SN B200049757 to Present, SN M200026261 through M200039292)**	

FIGURE 2-29. BATTERY TRAY ASSEMBLY - UL

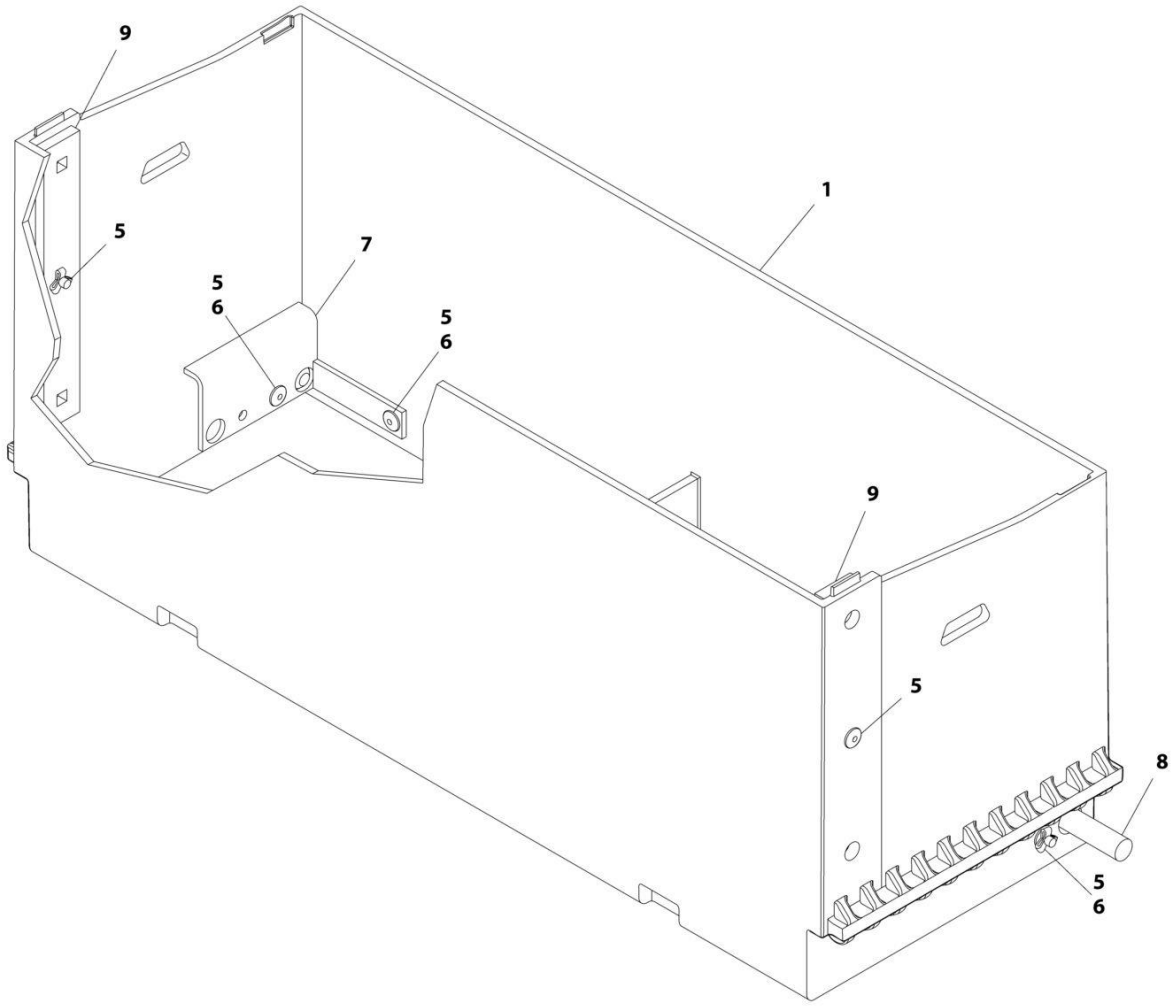


FIGURE 2-29. BATTERY TRAY ASSEMBLY - UL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0861678	Ref	BATTERY TRAY ASSEMBLY - UL	I
1	0861677	1	Tray, Battery	
5	3820032	6	Rivet	
6	4811600	4	Washer M5	
7	4220252	1	Stop (LH)	
8	4220253	1	Stop (RH)	
9	3577076	2	Bar **(SN 0200239382 through 0200266381, SN 1200025021 through 1200030217, SN B200020297 through B200049756, SN M200000100 through M200026260)**	
9	1001233888	2	Bar **(SN 0200266382 to Present, SN 1200030218 to Present, SN B200049757 to Present, SN M200026261 through M200039292)**	

FIGURE 2-30. BATTERY COVER ASSEMBLY - NON-LOCKING

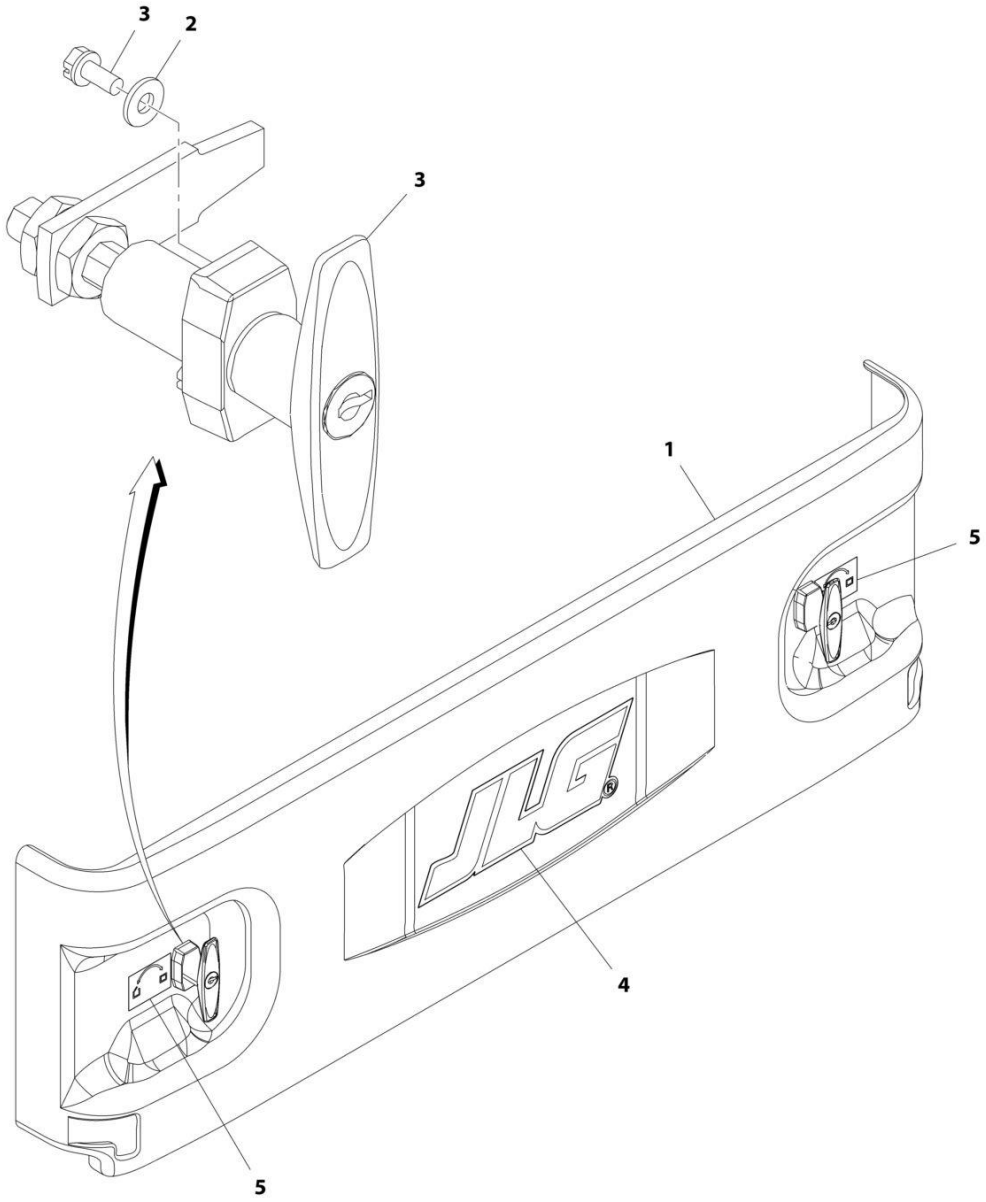


FIGURE 2-30. BATTERY COVER ASSEMBLY - NON-LOCKING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1671202	Ref	BATTERY COVER ASSEMBLY - NON-LOCKING	I
1	1671203	1	Cover, Battery Less Decals and Latches	
2	4750800	4	Washer #8	
3	2940174	2	Latch, T-Handle	
4	1705754	1	Decal - JLG **(SN 0200239382 through 0200262285, SN B200020297 through B200038299, SN M200000100 through M200007989)**	
5	1706350	2	Decal - Cover	

FIGURE 2-31. BATTERY COVER ASSEMBLY - LOCKING

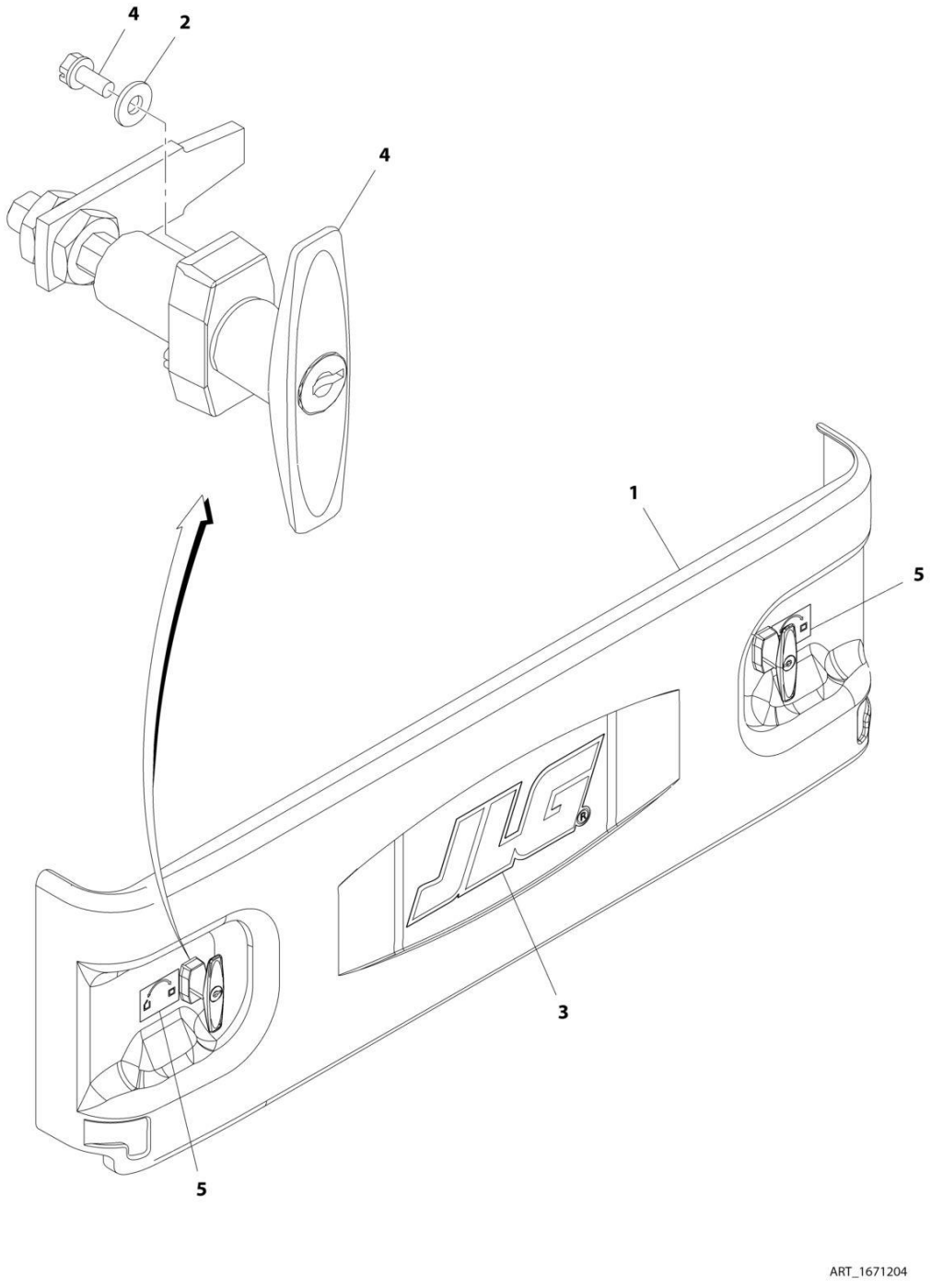


FIGURE 2-31. BATTERY COVER ASSEMBLY - LOCKING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1671204	Ref	BATTERY COVER ASSEMBLY - LOCKING	I
1	1671203	1	Cover, Battery Less Decals and Latches	
2	4750800	4	Washer #8	
3	1705754	1	Decal - JLG	
4	2940175	2	Latch, T-Handle (Locking)	
4	7027863	2	Key	
5	1706350	2	Decal - Cover	

FIGURE 2-32. BRAKE DISCONNECT AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATION

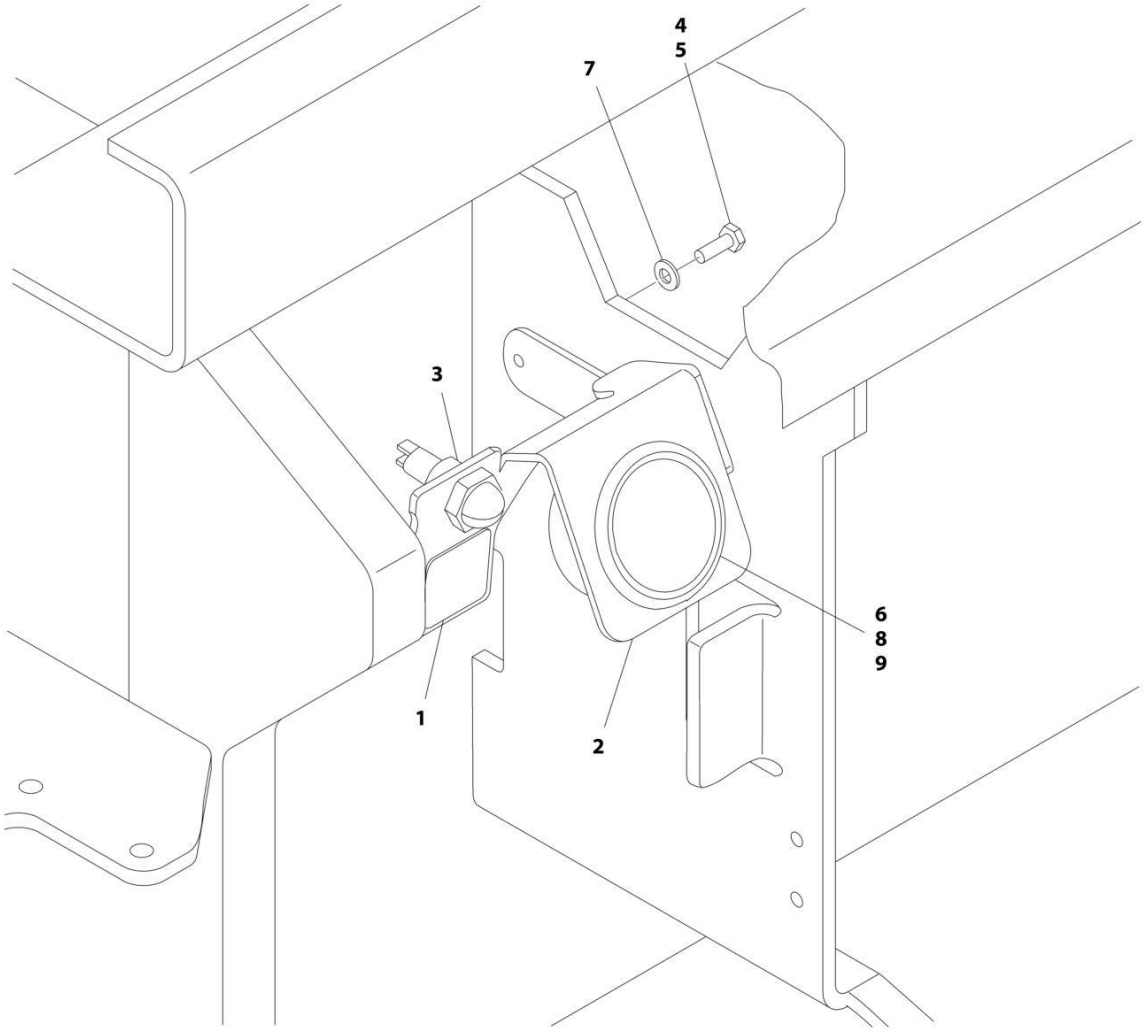


FIGURE 2-32. BRAKE DISCONNECT AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275530	Ref	BRAKE DISCONNECT AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATION	D
1	1706679	1	Decal - Brake Release	
2	1001094203	1	Bracket	
3	4360387	1	Switch, Push Button	
4	4031607	2	Capscrew M5 x 16	
5	0100011	AR	Compound, Locking	
6	0100048	AR	Grease, Dielectric	
7	4811600	2	Washer M5	
8	1001092454	1	Gauge, MDI (Multifunction Digital Indicator)	
9	1001093556	1	MDI Harness (Not Shown - See Separate Breakdown in ELECTRICAL SECTION)	

FIGURE 2-33. BRAKE CABLE INSTALLATION (OPTIONAL)

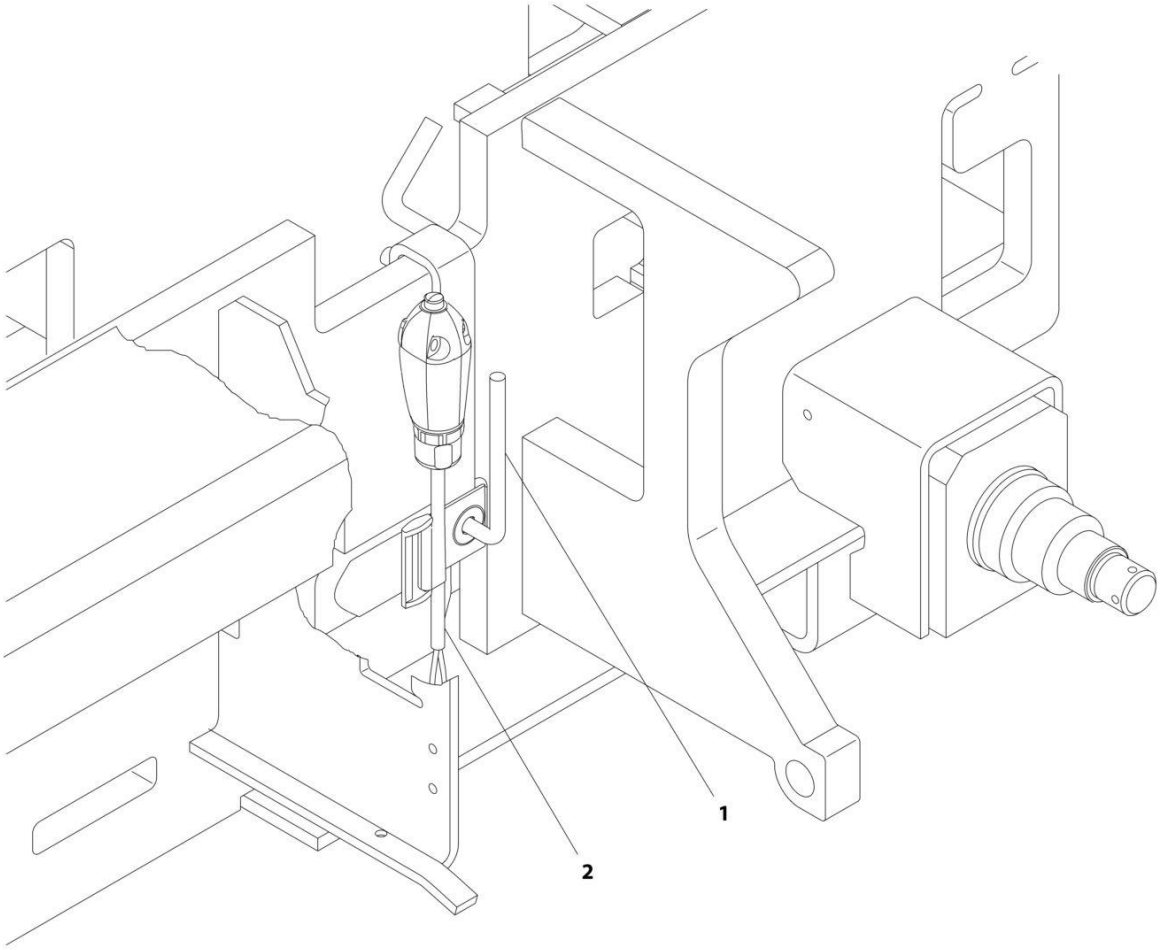


FIGURE 2-33. BRAKE CABLE INSTALLATION (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275432	Ref	BRAKE CABLE INSTALLATION (OPTIONAL)	B
1	2902331	1	Brake Release Mount Kit (Includes Mounting Bracket and Setscrew)	
1	3951608	1	Setscrew 3/8 x 1	
2	4922944	1	Brake Disconnect Harness (See Separate Breakdown in ELECTRICAL SECTION)	

SECTION 3 - SCISSOR ARMS

SECTION 3 - SCISSOR ARMS

FIGURE 3-1. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

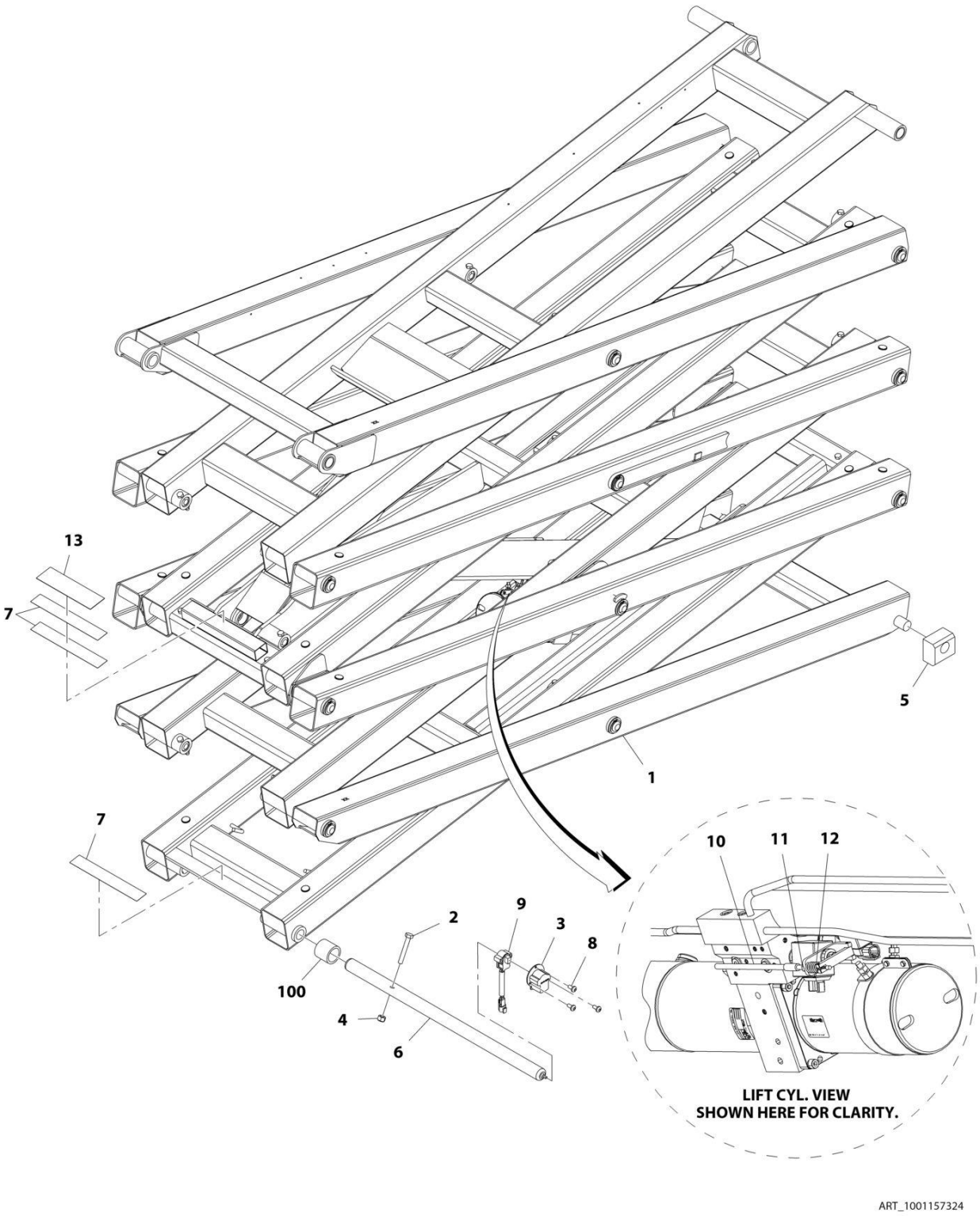


FIGURE 3-1. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157324	Ref	SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES)	C
1	1001157319	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) for Breakdown)	
2	0701022	1	Bolt M10 x 70	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3340957	2	Pad, Slide	
6	3423255	1	Pin, Sensor	
7	4420070	3	Tape, Anti-Skid	
8	4191706	3	Screw M6 x 12	
9	1001092354	1	Switch, Rotary Angle Sensor	
9	4460536	1	Receptacle, Female - 3 Position	
9	4460464	3	Pin, Male	
10	1061034	1	Cable, Manual Descent	
10	7020218	1	T-Handle (With 1/4-20 Threads)	
10	70001878	1	T-Handle (With 5mm Threads)	
11	3321402	1	Nut 1/4-28	
12	4160078	1	Spring, Compression	
13	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

SECTION 3 - SCISSOR ARMS

FIGURE 3-2. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

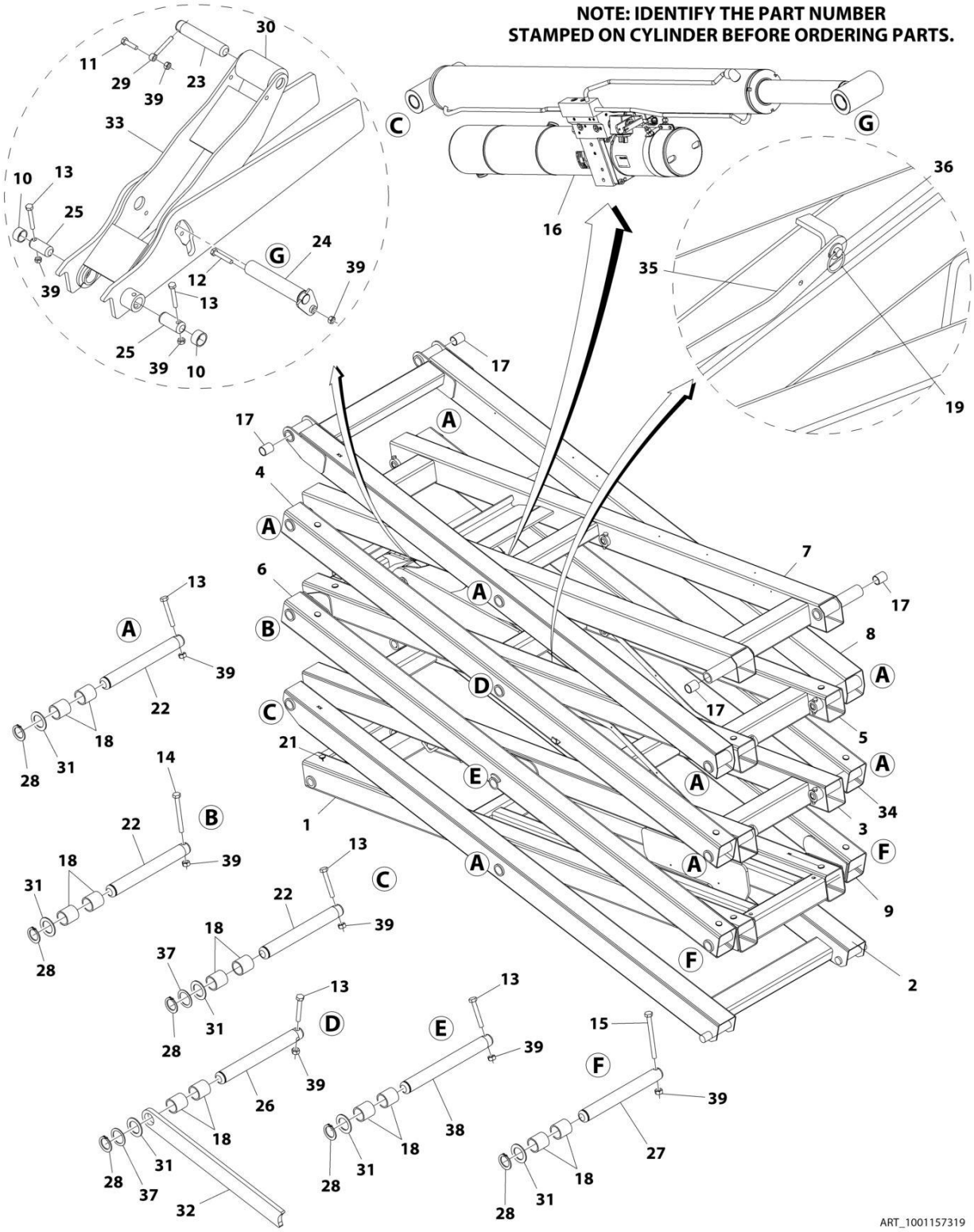


FIGURE 3-2. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157319	Ref	SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES)	D
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Lower Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001155843	1	Lift Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
21	3340962	24	Pad, Arm	
22	3422997	17	Pin	
23	3422998	1	Pin	
24	3423009	NLA	Pin (Use p/n 1001226707)	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3760387	20	Ring, Retaining	
29	3841143	1	Keeper, Pin	
30	3860104	1	Roller, Arm Kicker	
31	4740438	20	Washer	
32	3574161	1	Bar, Prop Attach	
33	4846684	1	Weld, Kicker	
34	0200820	1	Arm - Upper Mid Outboard (Left Side)	
35	1180380	2	Carrier, Cable	
36	4812000	4	Washer M10	
37	4071094	AR	Shim, Spacer	
38	3423170	1	Pin	
39	3291007	25	Nut M10	

FIGURE 3-3. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 through M200022030)

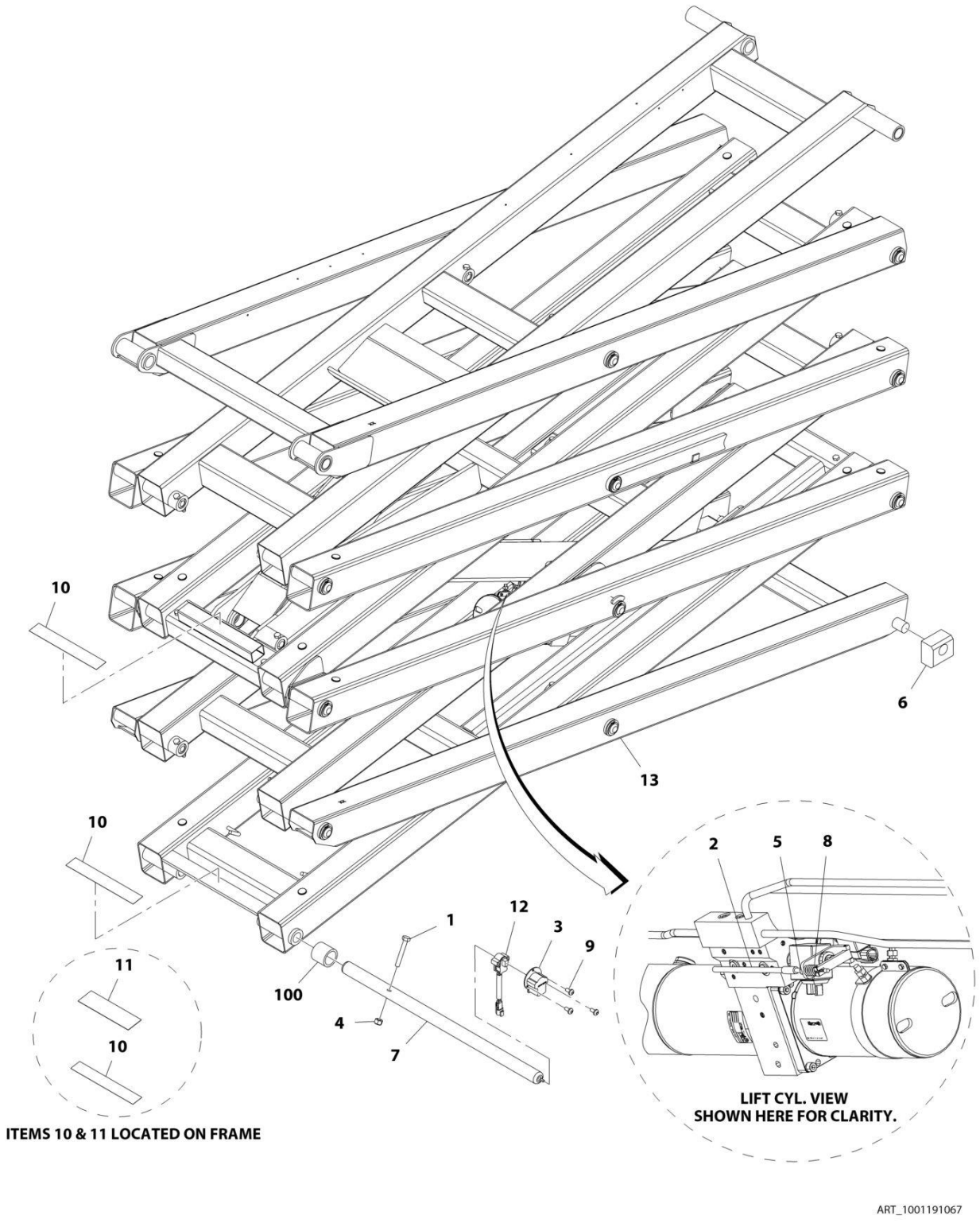


FIGURE 3-3. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 through M200022030)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191067	Ref	SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4-28	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Tread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191059	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) for Breakdown)	
100	0440265	2	Bushing (Part of Frame Weldment)	

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FIGURE 3-4. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

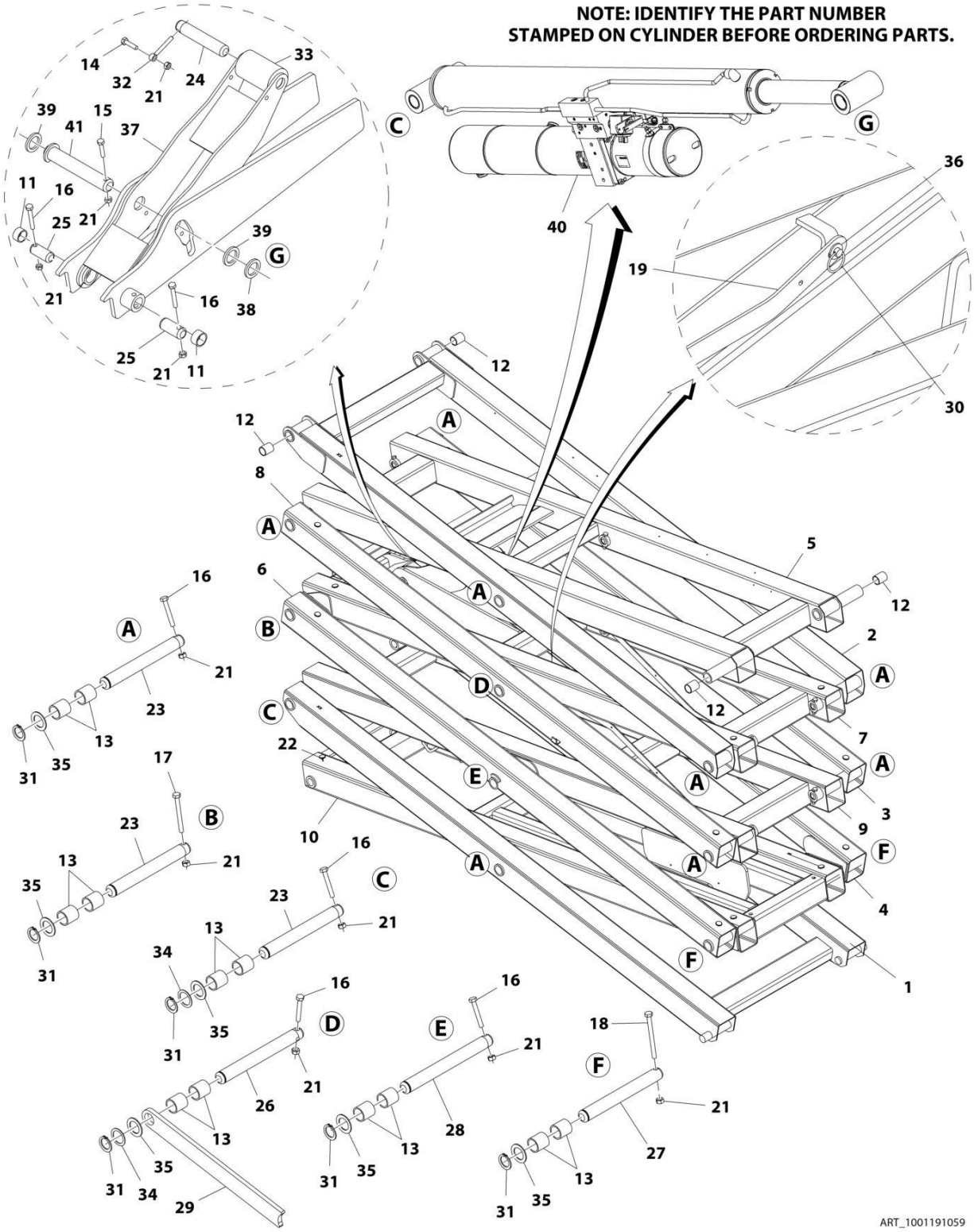


FIGURE 3-4. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191059	Ref	SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN 0200241221 through 02000260978, SN M200000100 through M200006323)**	
1	1001219386	1	Arm - Lower Outboard **(SN 02000260979 to Present, SN M200006324 through M200039292)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291007	25	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3423170	1	Pin	
29	3574161	1	Bar, Prop Attach	
30	3760170	4	Ring, Split	
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860104	1	Roller, Arm Kicker	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer	
36	4812000	4	Washer M10	
37	4846684	1	Kicker Weldment	
38	1001139000	1	Plate	
39	1001139002	2	Washer	
40	1001155843	1	Lift Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
41	1001191121	1	Pin	

FIGURE 3-5. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES (SN B200020297 through B200020981)

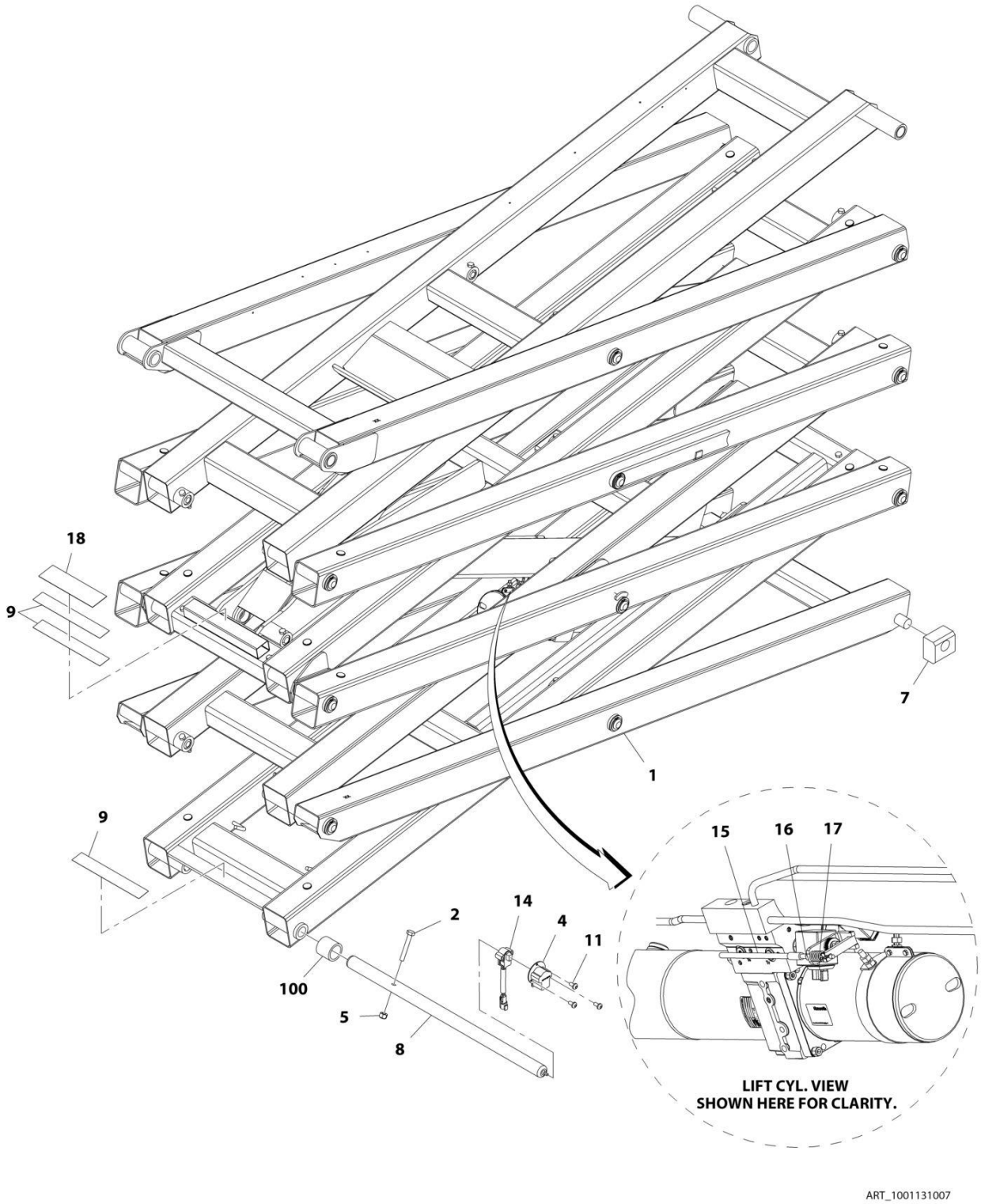


FIGURE 3-5. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131007	Ref	SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES)	F
1	1001131024	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) for Breakdown)	
2	0701022	1	Bolt M10 x 70	
4	3200454	1	Mount, Switch	
5	3291005	1	Nut M10	
7	3340957	2	Pad, Slide	
8	3423255	1	Pin, Sensor	
9	4420070	3	Tape, Anti-Skid	
11	4191706	3	Screw M6 x 12	
14	1001092354	1	Switch, Rotary Angle Sensor	
14	4460536	1	Receptacle, Female - 3 Position	
14	4460464	3	Pin, Male	
15	1061034	1	Cable, Manual Descent	
15	7020218	1	T-Handle (With 1/4-20 Threads)	
15	70001878	1	T-Handle (With 5mm Threads)	
16	3321402	1	Nut 1/4-28	
17	4160078	1	Spring, Compression	
18	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

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FIGURE 3-6. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

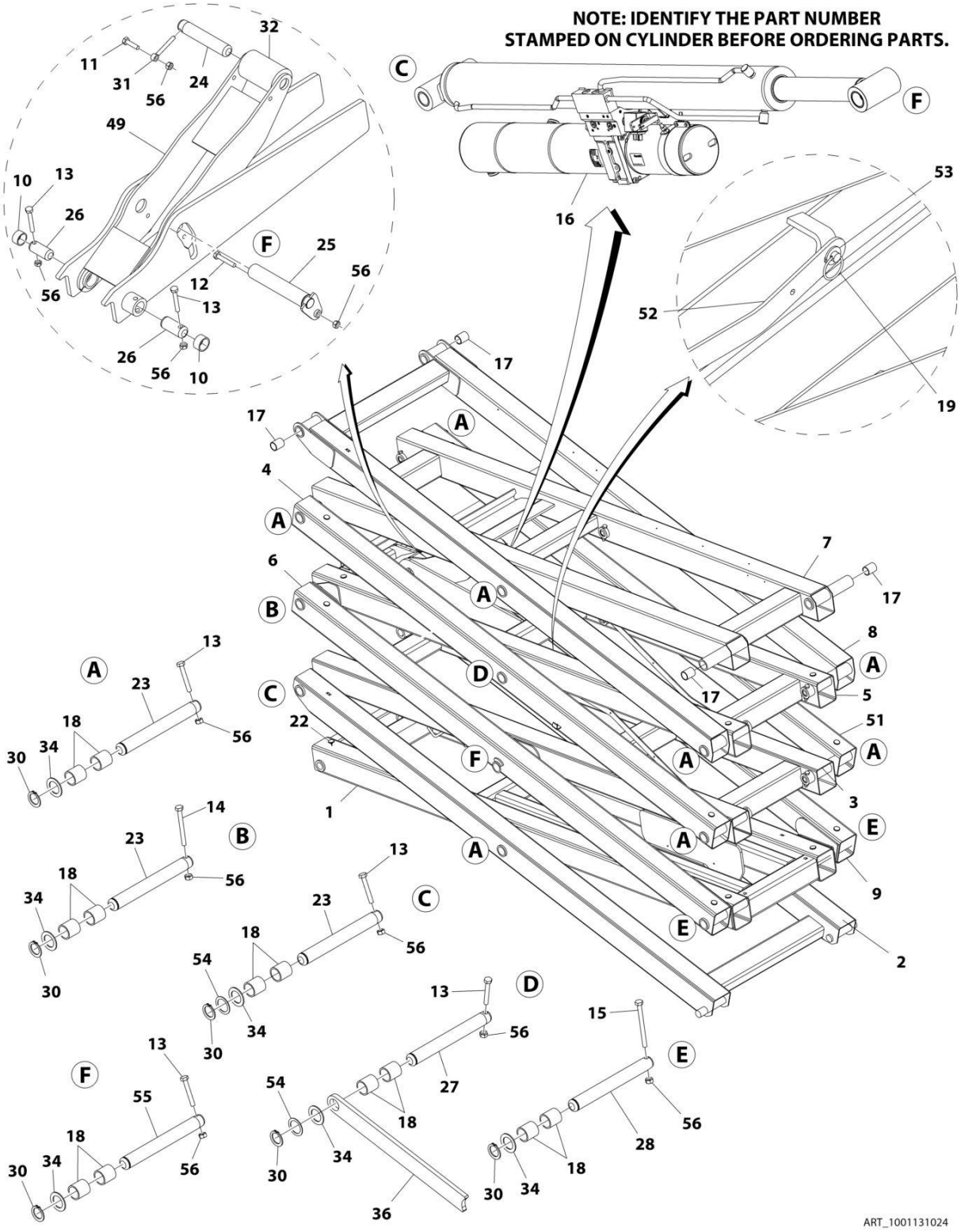


FIGURE 3-6. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131024	Ref	SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES)	G
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Upper Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001129291	1	Lift Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	1	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423009	NLA	Pin (Use p/n 1001226707)	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller, Arm Kicker	
34	4740438	20	Washer	
36	3574161	1	Bar, Prop Attach	
49	4846684	1	Weld, Kicker	
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Washer M10	
54	4071094	1	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	25	Nut M10	

FIGURE 3-7. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (BELGIUM, CHINA AND MEXICO BUILT MACHINES) (SN 1200025021 to Present, SN B200020982 to Present, SN M200022031 to Present)

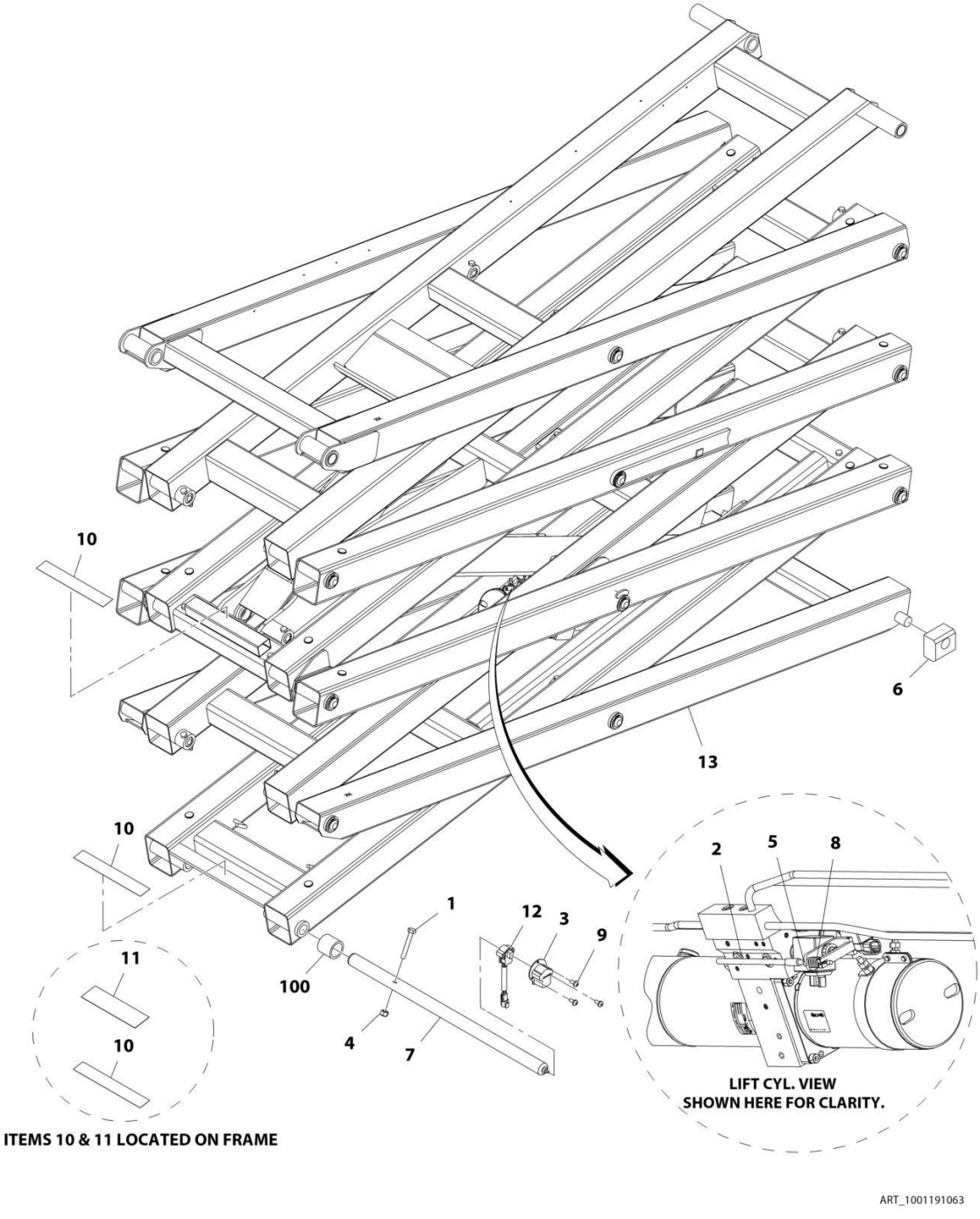


FIGURE 3-7. SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL (BELGIUM, CHINA AND MEXICO BUILT MACHINES) (SN 1200025021 to Present, SN B200020982 to Present, SN M200022031 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191063	Ref	SCISSORS ARMS INSTALLATION - 2646ES STANDARD HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Tread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191055	1	Arms Assembly (See Separate Breakdown in this Section)	
100	0440265	2	Bushing (Part of Frame Weldment)	

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FIGURE 3-8. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

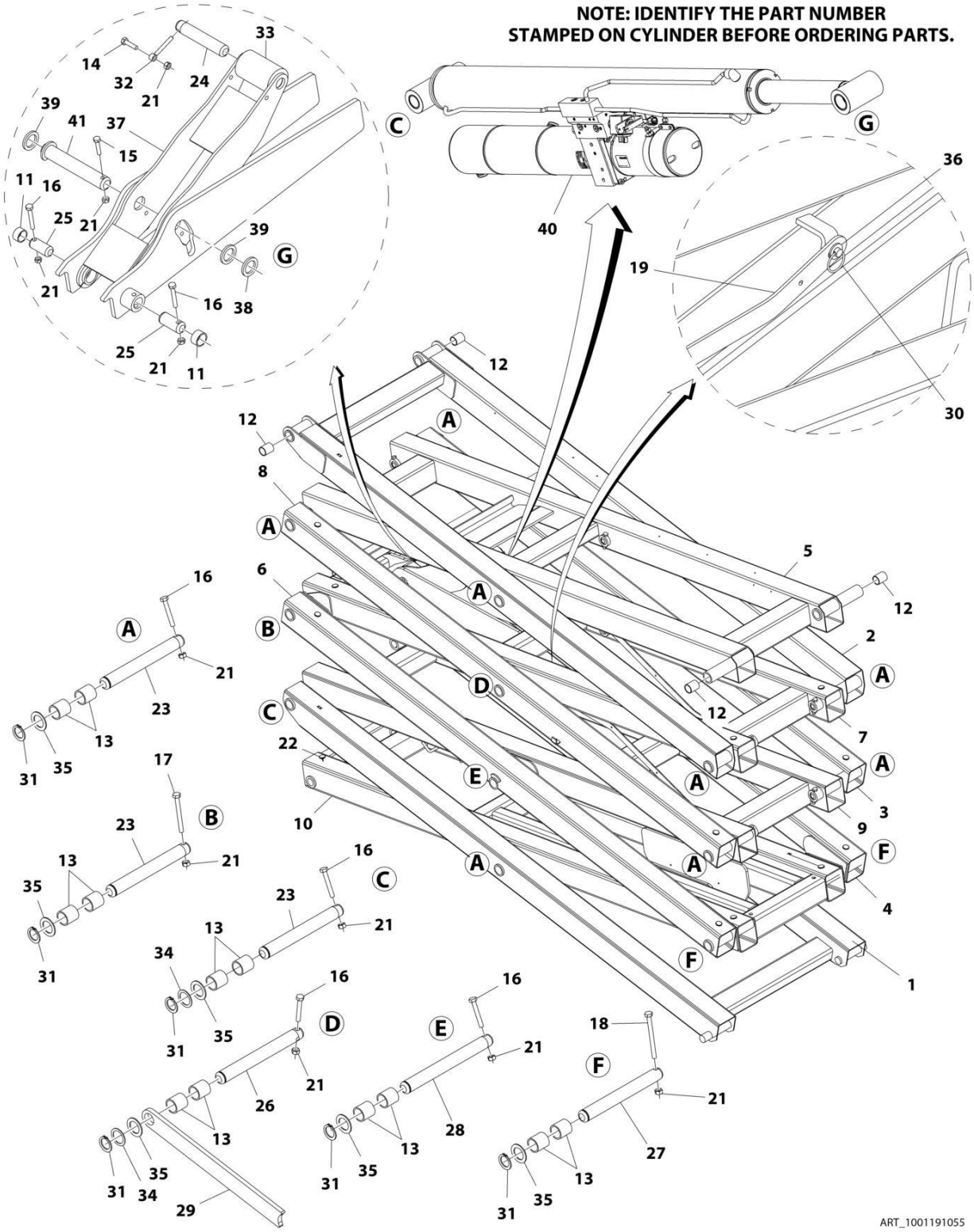


FIGURE 3-8. SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191055	Ref	SCISSORS ARMS ASSEMBLY - 2646ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN B200020982 through B200037621)**	
1	1001219386	1	Arm - Lower Outboard **(SN B200037622 to Present)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291007	25	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3760170	1	Pin	
29	3574161	1	Bar, Prop Attach	
30	3423170	4	Right, Split	
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860104	1	Roller, Arm Kicker	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer	
36	4812000	4	Washer M10	
37	4846684	1	Kicker Weldment	
38	1001139000	1	Plate	
39	1001139002	2	Washer	
40	1001129291	1	Life Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
41	1001191121	1	Pin	

FIGURE 3-9. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

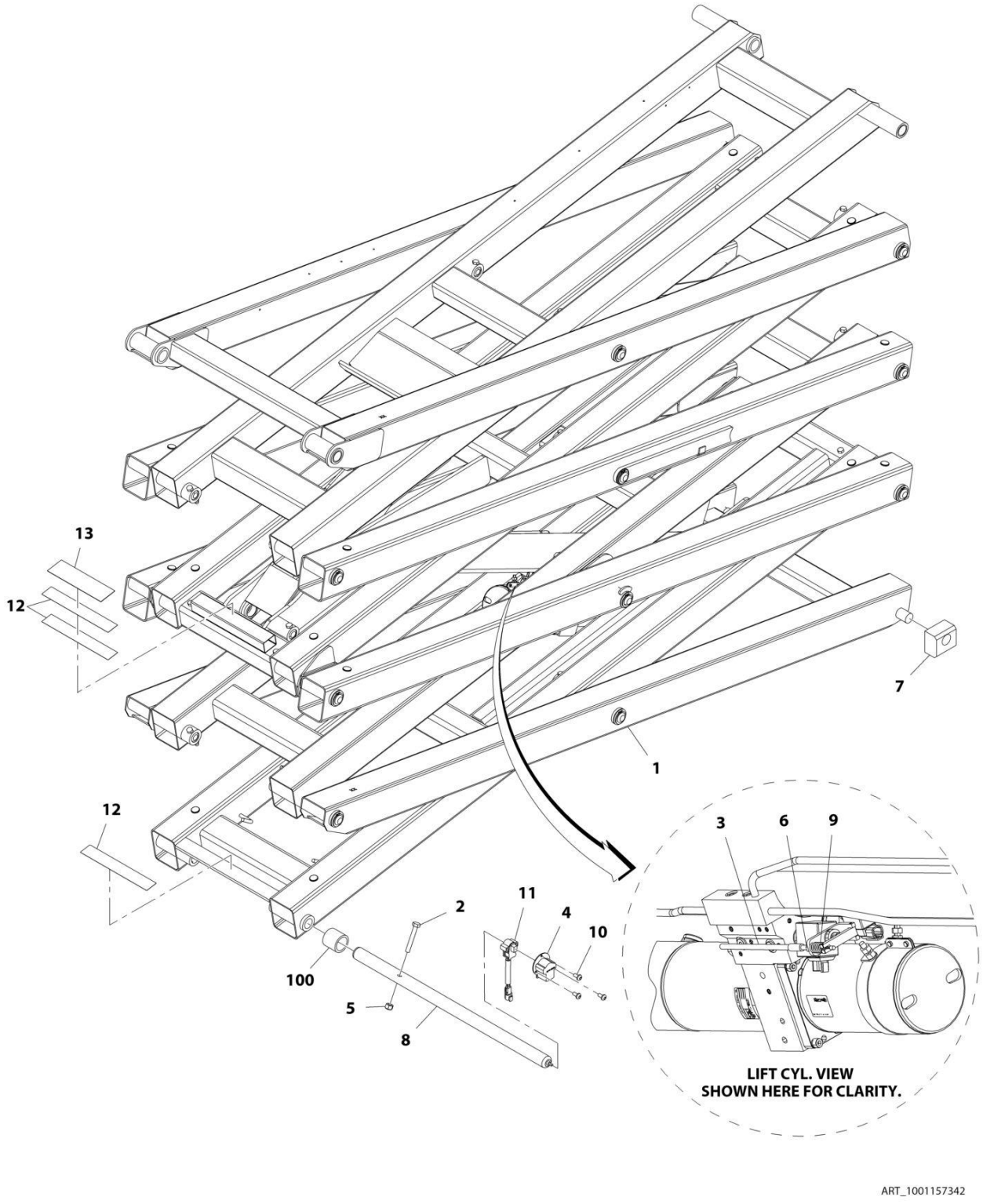


FIGURE 3-9. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157342	Ref	SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES)	B
1	1001157337	1	Arm Assembly (See SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) for Breakdown)	
2	0701022	1	Bolt M10 x 70	
3	1061034	1	Cable, Manual Descent	
3	7020218	1	T-Handle (With 1/4-20 Threads)	
3	70001878	1	T-Handle (With 5mm Threads)	
4	3200454	1	Mount, Switch	
5	3291005	1	Nut M10	
6	3321402	1	Nut 1/4	
7	3340957	2	Pad, Slide	
8	3423255	1	Pin, Sensor	
9	4160078	1	Spring, Compression	
10	4191706	3	Screw M6 x 12	
11	1001092354	1	Switch, Rotary Angle Sensor	
11	4460536	1	Receptacle, Female - 3 Position	
11	4460464	3	Pin, Male	
12	4420070	3	Tape, Anti-Skid	
13	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

SECTION 3 - SCISSOR ARMS

FIGURE 3-10. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

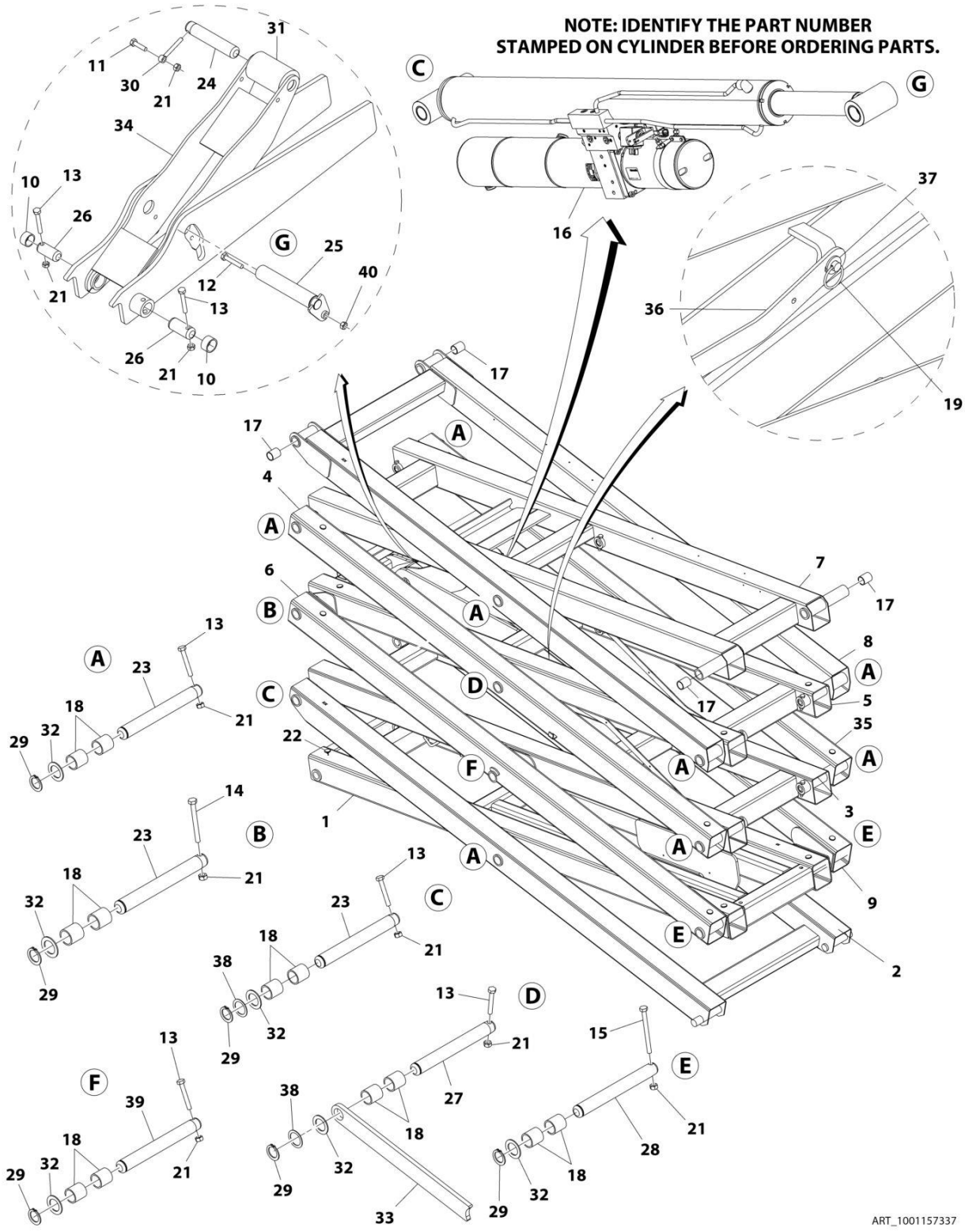


FIGURE 3-10. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157337	Ref	SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES)	B
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Upper Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001157332	1	Lift Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
21	3291005	24	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423009	NLA	Pin (Use p/n 1001226707)	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
29	3760387	20	Ring, Retaining	
30	3841143	1	Keeper, Pin	
31	3860104	1	Roller, Arm Kicker	
32	4740438	20	Washer	
33	3574161	1	Bar, Prop Attach	
34	4846684	1	Weld, Kicker	
35	0200820	1	Arm - Upper Mid Outboard (Left Side)	
36	1180380	2	Carrier, Cable	
37	4812000	4	Washer M10	
38	4071094	1	Shim, Spacer	
39	3423170	1	Pin	
40	3291007	1	Nut M10	

FIGURE 3-11. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

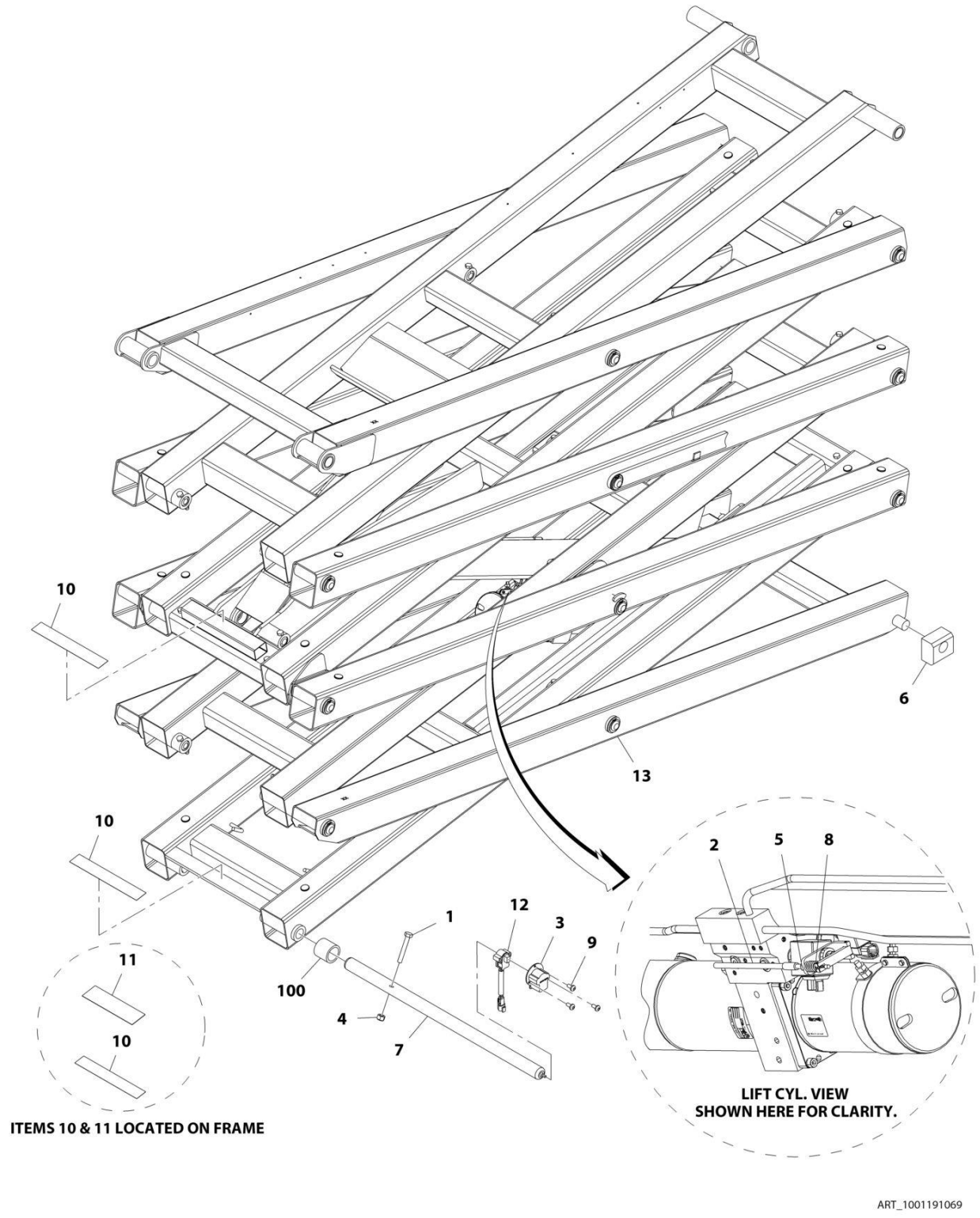


FIGURE 3-11. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191069	Ref	SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Thread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191061	1	Arms Assembly (See Separate Breakdown in this Section)	
100	0440265	2	Bushing (Part of Frame Weldment)	

SECTION 3 - SCISSOR ARMS

FIGURE 3-12. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

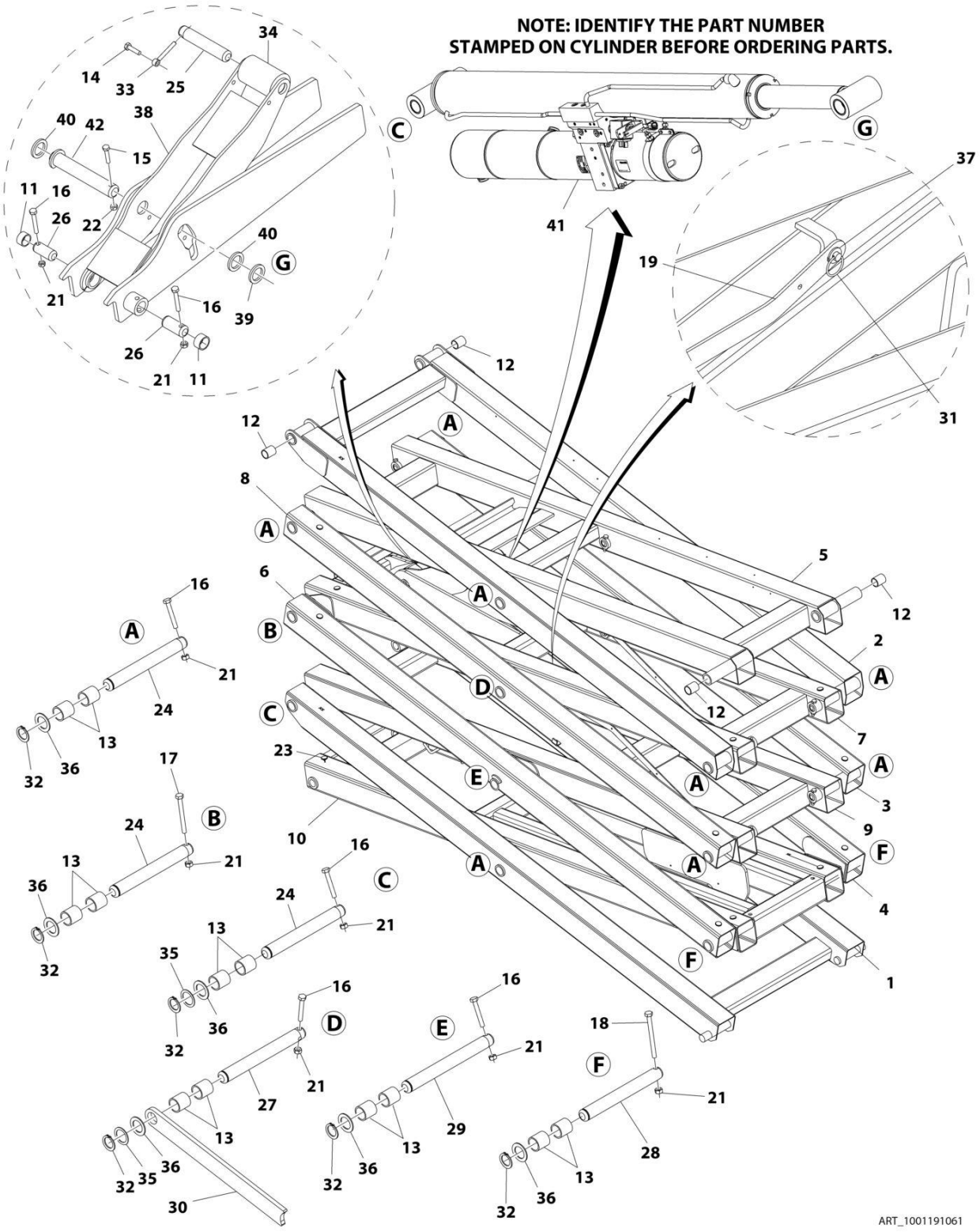


FIGURE 3-12. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191061	Ref	SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN 0200241221 through 0200260973, SN M200000100 through M200006323)**	
1	1001219386	1	Arm - Lower Outboard **(SN 0200260974 to Present, SN M200006324 through M200039292)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291005	24	Nut M10	
22	3291007	1	Nut M10	
23	3340962	24	Pad, Arm	
24	3422997	17	Pin	
25	3422998	1	Pin	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
29	3423170	1	Pin	
30	3574161	1	Bar, Prop Attach	
31	3760170	4	Ring, Split	
32	3760387	20	Ring, Retaining	
33	3841143	1	Keeper, Pin	
34	3860104	1	Roller, Arm Kicker	
35	4071094	AR	Shim, Spacer	
36	4740438	20	Washer	
37	4812000	4	Washer M10	
38	4846684	1	Kicker Weldment	
39	1001139000	1	Plate	
40	1001139002	2	Washer	
41	1001157332	1	Life Cylinder Assembly - Biodeagradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
42	1001191121	1	Pin	

FIGURE 3-13. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

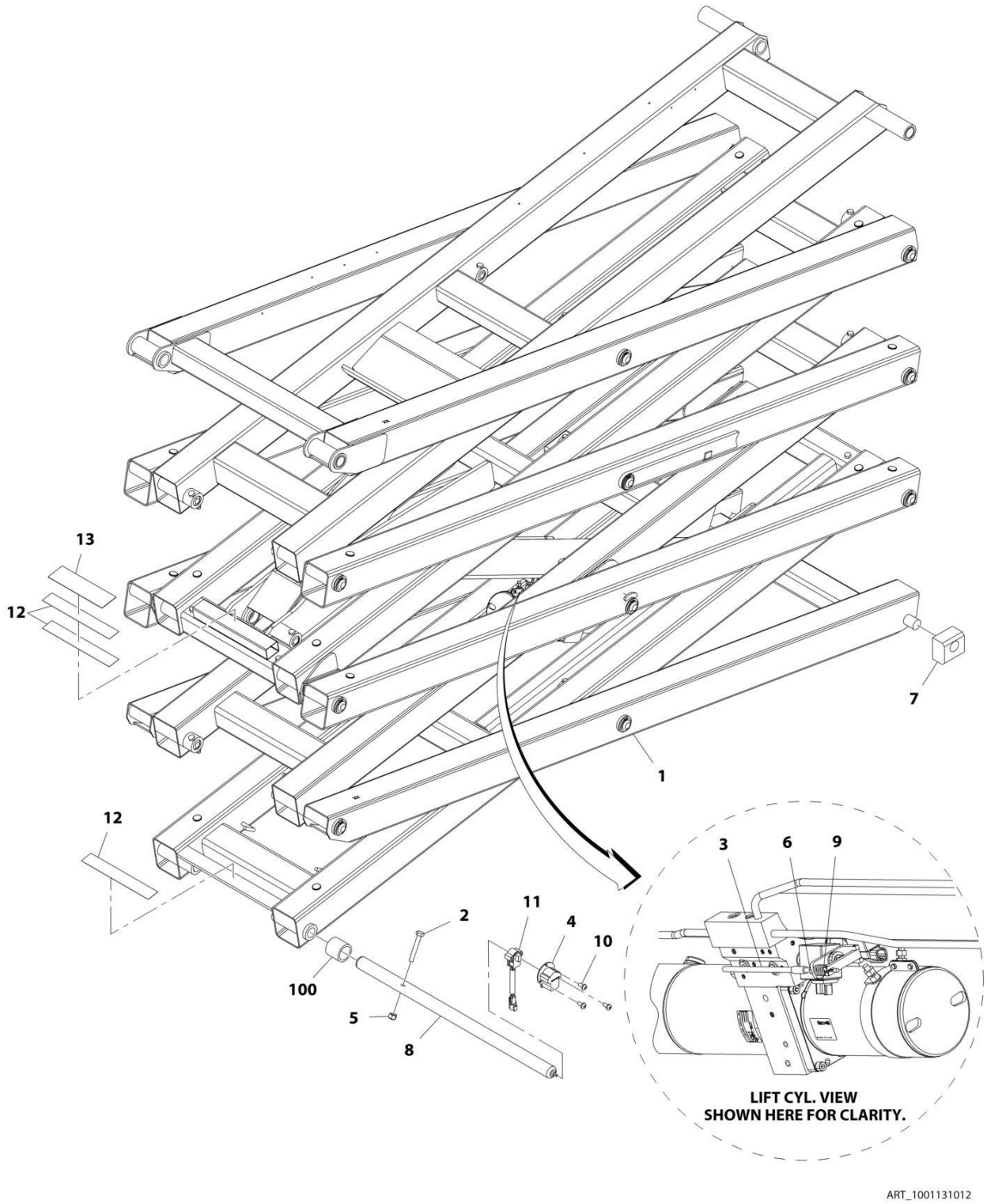


FIGURE 3-13. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131012	Ref	SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES)	D
1	1001131030	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) for Breakdown)	
2	0701022	1	Bolt M10 x 70	
3	1061034	1	Cable, Manual Descent	
3	7020218	1	T-Handle (With 1/4-20 Threads)	
3	70001878	1	T-Handle (With 5mm Threads)	
4	3200454	1	Mount, Switch	
5	3291005	1	Nut M10	
6	3321402	1	Nut 1/4	
7	3340957	2	Pad, Slide	
8	3423255	1	Pin, Sensor	
9	4160078	1	Spring, Compression	
10	4191706	3	Screw M6 x 12	
11	1001092354	1	Switch, Rotary Angle Sensor	
11	4460536	1	Receptacle, Female - 3 Position	
11	4460464	3	Pin, Male	
12	4420070	3	Tape, Anti-Skid	
13	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

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FIGURE 3-14. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

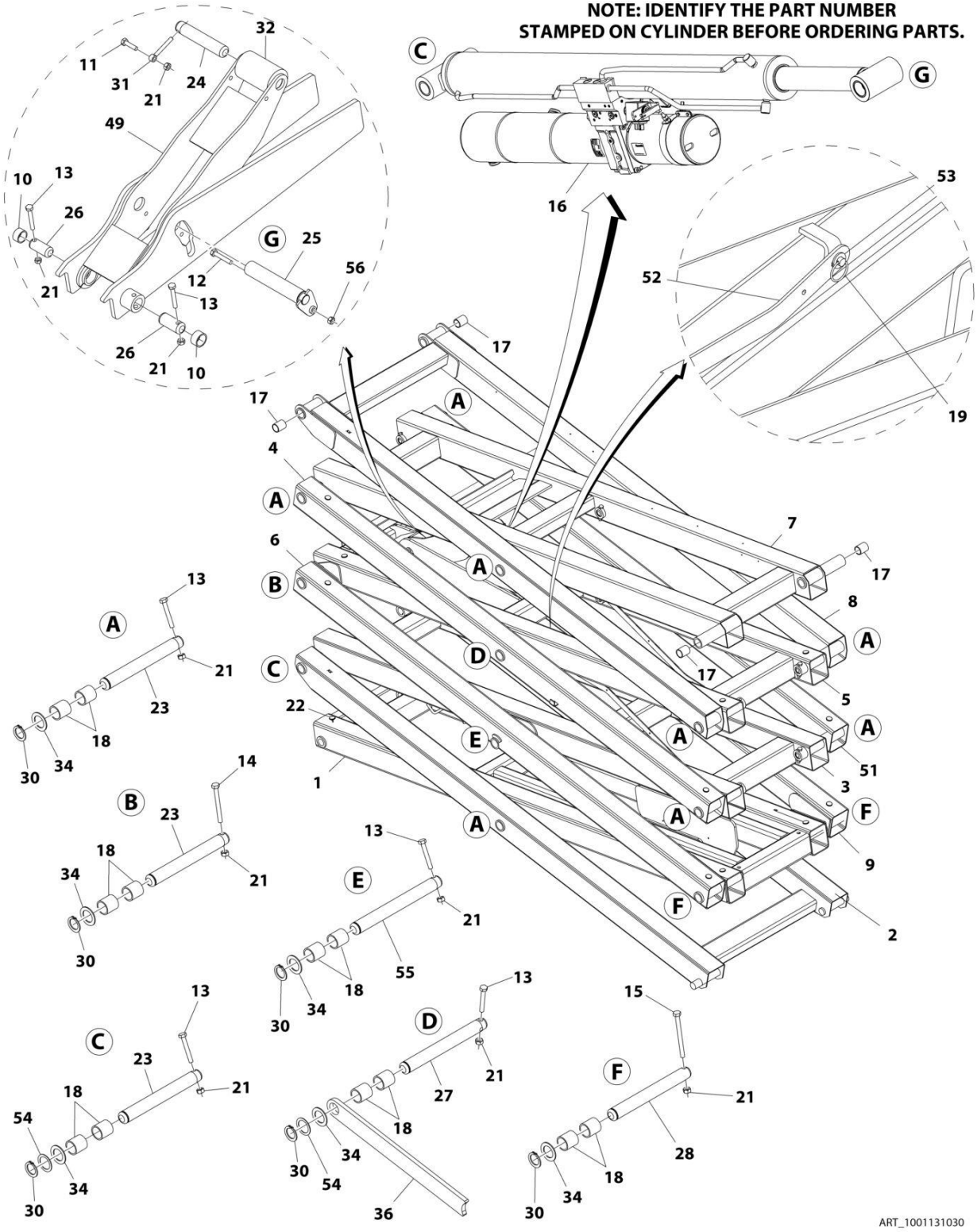


FIGURE 3-14. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131030	Ref	SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES)	E
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Upper Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001131036	1	Lift Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
21	3291005	24	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423009	NLA	Pin (Use p/n 1001226707)	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller, Arm Kicker	
34	4740438	20	Washer	
36	3574161	1	Bar, Prop Attach	
49	4846684	1	Weld, Kicker	
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Washer M10	
54	4071094	1	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	1	Nut M10	

FIGURE 3-15. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

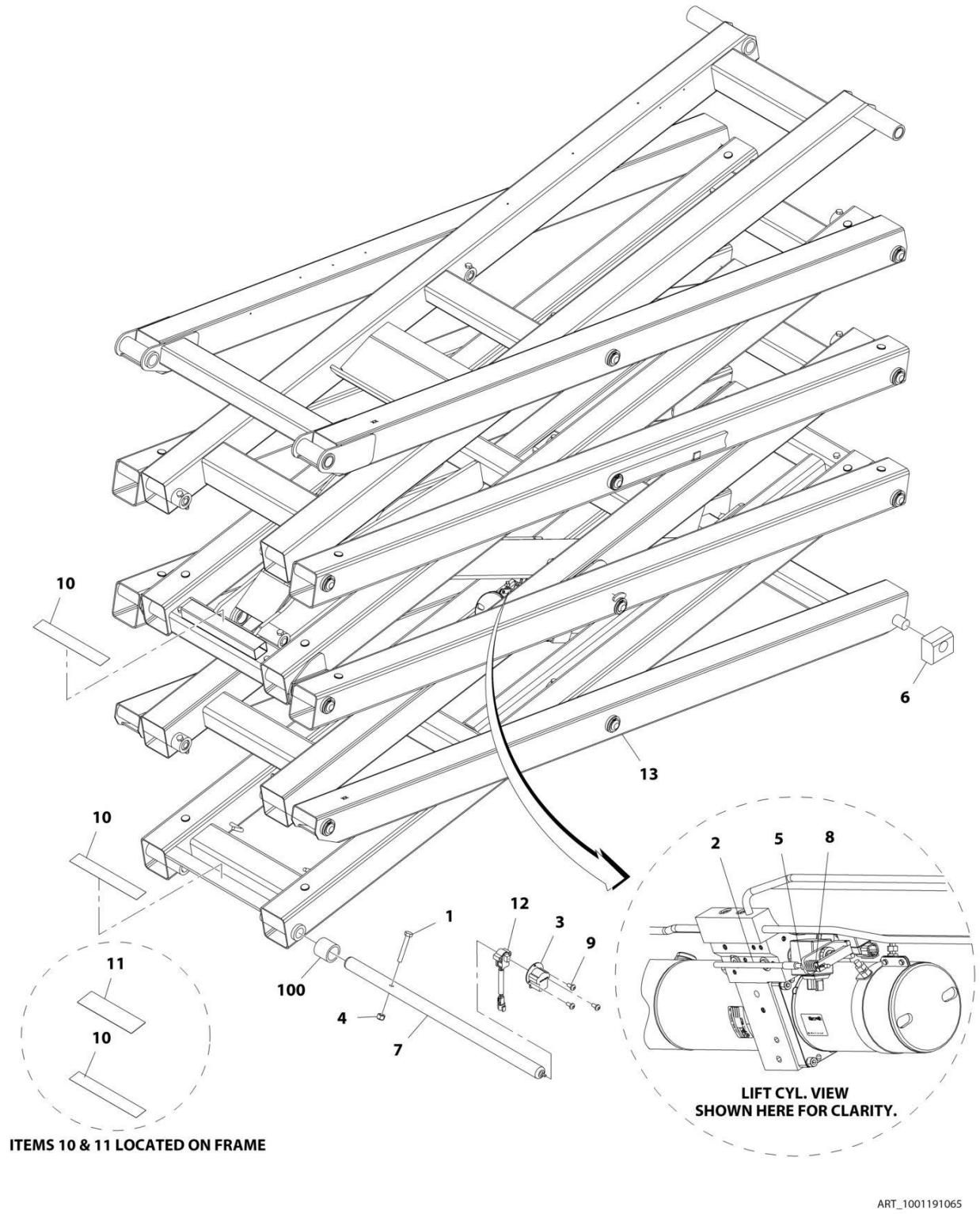


FIGURE 3-15. SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191065	Ref	SCISSORS ARMS INSTALLATION - 2646ES BIODEGRADEABLE HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Tread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191057	1	Arms Assembly (See Separate Breakdown in this Section)	
100	0440265	2	Bushing (Part of Frame Weldment)	

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FIGURE 3-16. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

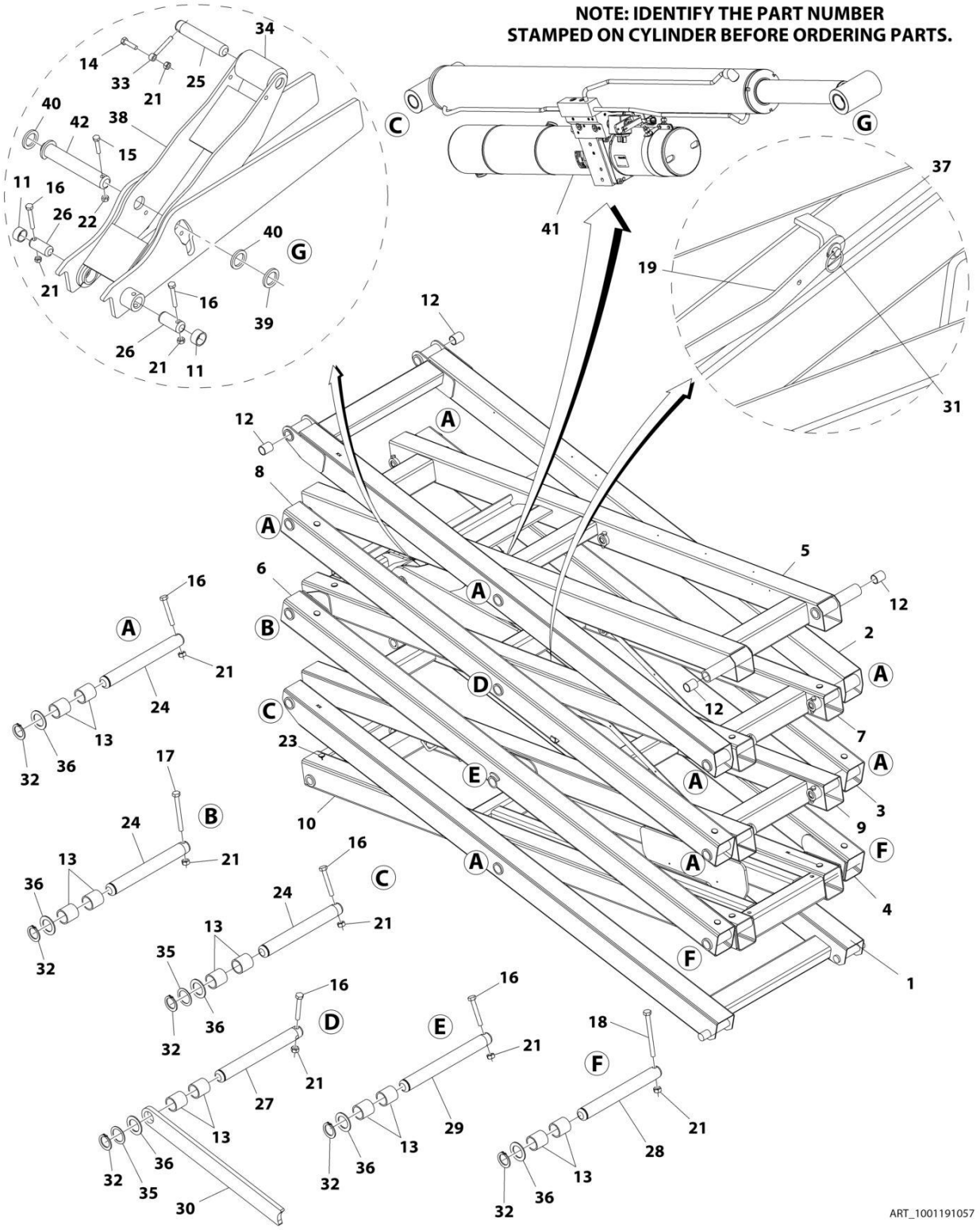


FIGURE 3-16. SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191057	Ref	SCISSORS ARMS ASSEMBLY - 2646ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN B200020982 through B200037621)**	
1	1001219386	1	Arm - Lower Outboard **(SN B200037622 to Present)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291005	24	Nut M10	
22	3291007	1	Nut M10	
23	3340962	24	Pad, Arm	
24	3422997	17	Pin	
25	3422998	1	Pin	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
29	3423170	1	Pin	
30	3574161	1	Bar, Prop Attach	
31	3760170	4	Ring, Split	
32	3760387	20	Ring, Retaining	
33	3841143	1	Keeper, Pin	
34	3860104	1	Roller, Arm Kicker	
35	4071094	AR	Shim, Spacer	
36	4740438	20	Washer	
37	4812000	4	Washer M10	
38	4846684	1	Kicker Weldment	
39	1001139000	1	Plate	
40	1001139002	2	Washer	
41	1001131036	1	Life Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
42	1001191121	1	Pin	

FIGURE 3-17. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

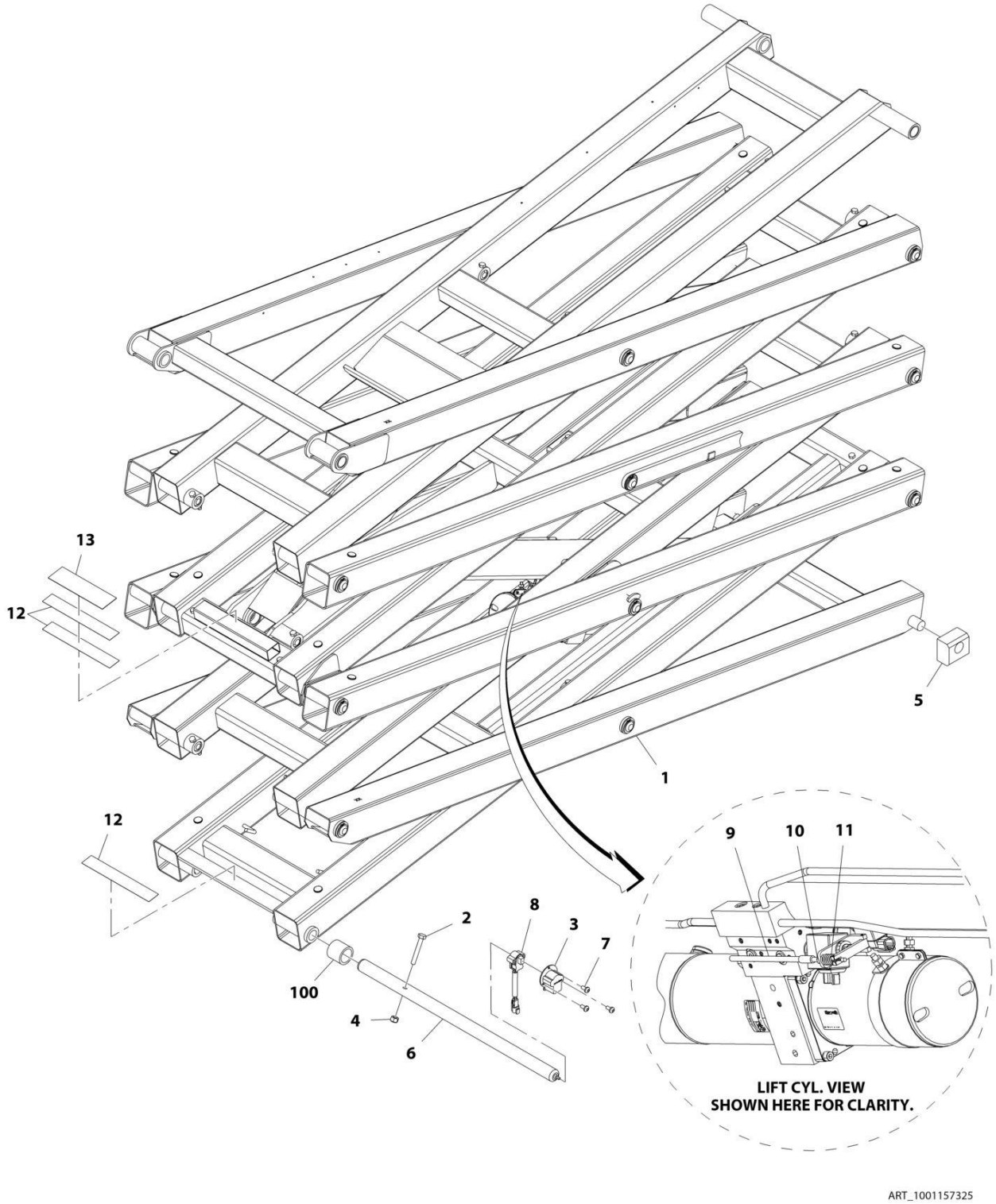
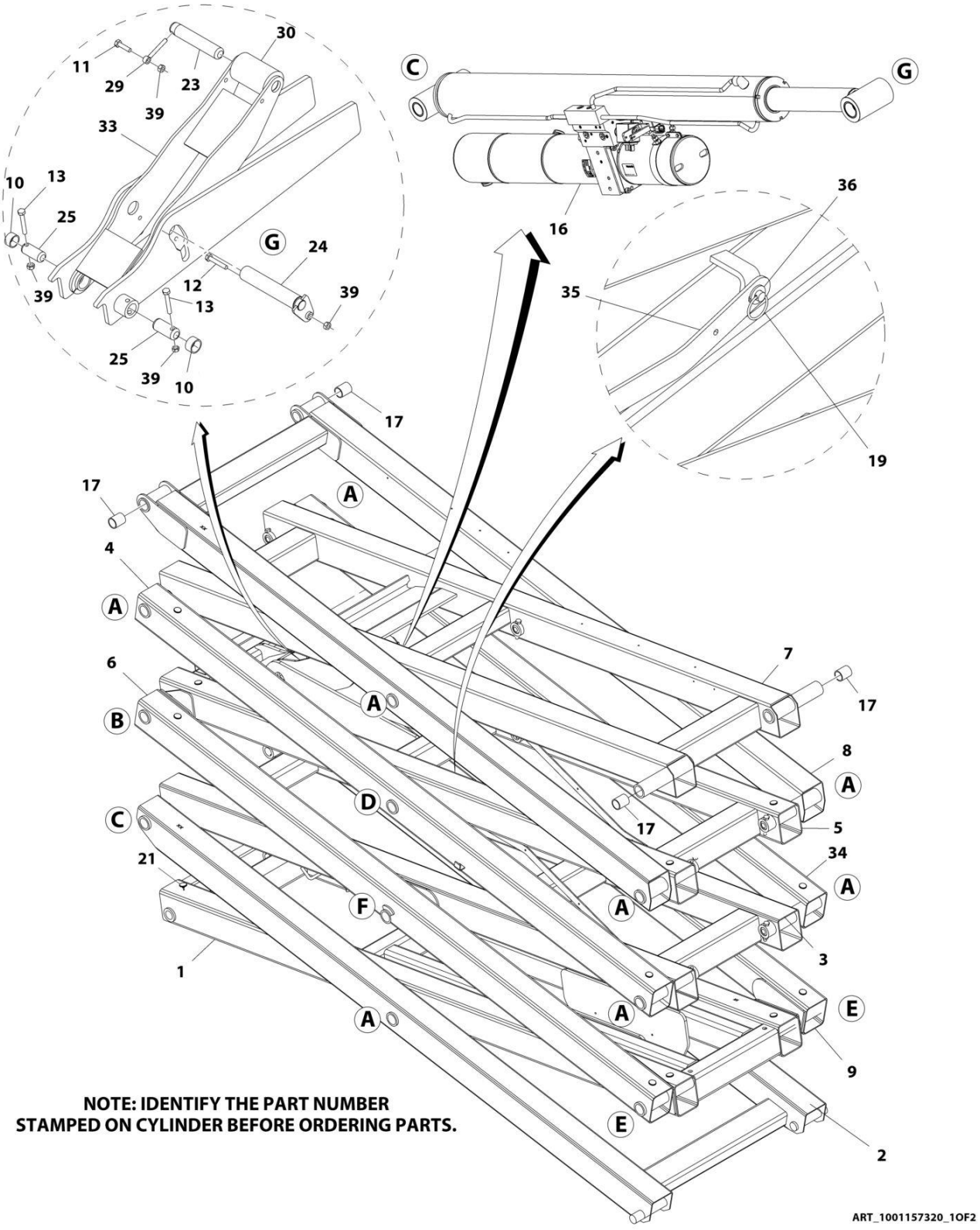
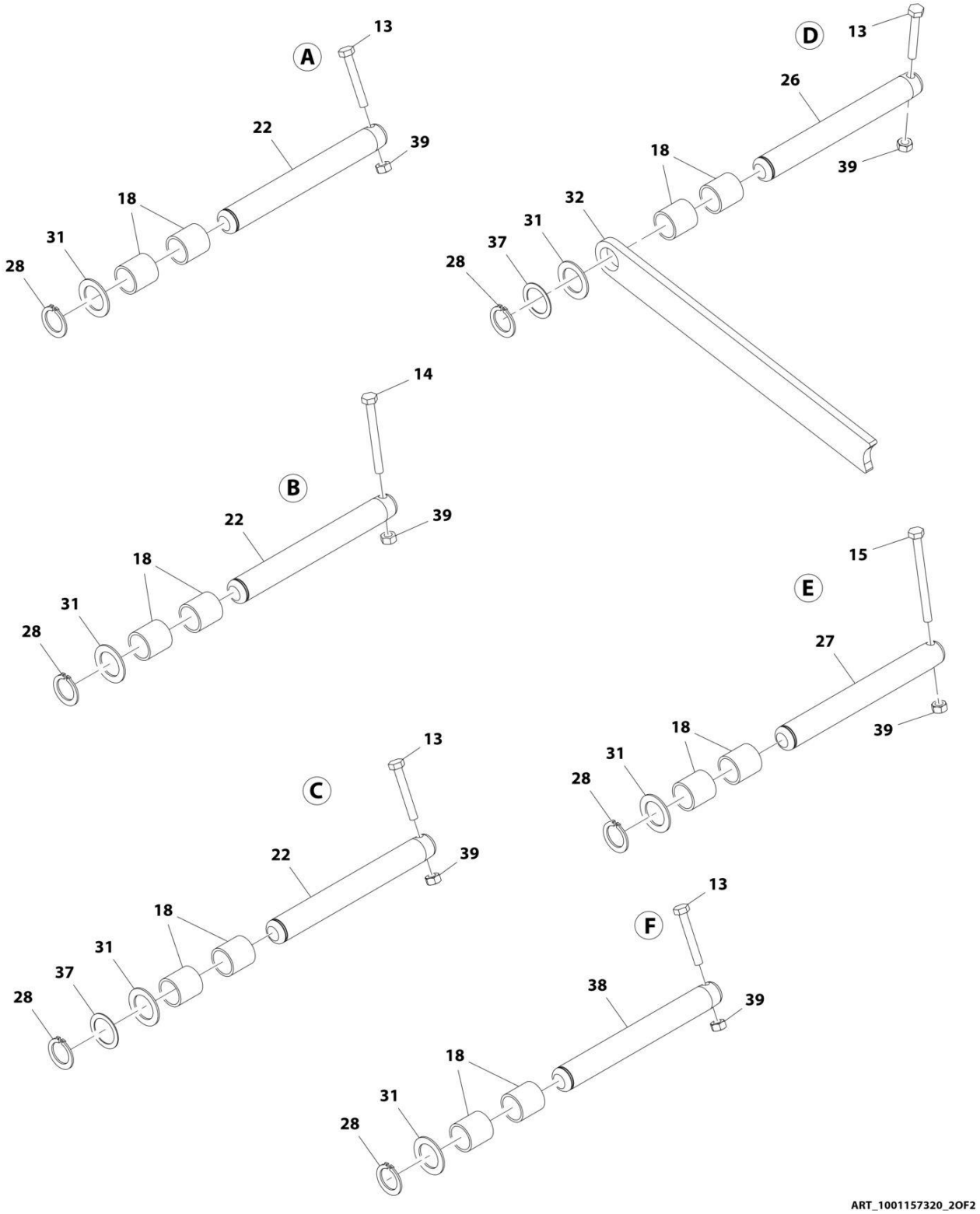


FIGURE 3-17. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157325	Ref	SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES)	C
1	1001157320	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) for Breakdown)	
2	0701022	1	Bolt M10 x 70	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3340957	2	Pad, Slide	
6	3423255	1	Pin, Sensor	
7	4191706	3	Screw M6 x 12	
8	1001092354	1	Switch, Rotary Angle Sensor	
8	4460536	1	Receptacle, Female - 3 Position	
8	4460464	3	Pin, Male	
9	1061034	1	Cable, Manual Descent	
9	7020218	1	T-Handle (With 1/4-20 Threads)	
9	70001878	1	T-Handle (With 5mm Threads)	
10	3321402	1	Nut 1/4-28	
11	4160078	1	Spring, Compression	
12	4420070	3	Tape, Anti-Skid	
13	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-18. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)




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FIGURE 3-18. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157320	Ref	SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA BUILT MACHINES)	D
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Lower Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001155844	1	Lift Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
21	3340962	24	Pad, Arm	
22	3422997	17	Pin	
23	3422998	1	Pin	
24	3423009	NLA	Pin (Use p/n 1001226707)	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3760387	20	Ring, Retaining	
29	3841143	1	Keeper, Pin	
30	3860104	1	Roller, Arm Kicker	
31	4740438	20	Washer	
32	3574161	1	Bar, Prop Attach	
33	4846684	1	Weld, Kicker	
34	0200820	1	Arm - Upper Mid Outboard (Left Side)	
35	1180380	2	Carrier, Cable	
36	4812000	4	Washer M10	
37	4071094	1	Shim, Spacer	
38	3423170	1	Pin	
39	3291007	25	Nut M10	

FIGURE 3-19. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 through M200022032)

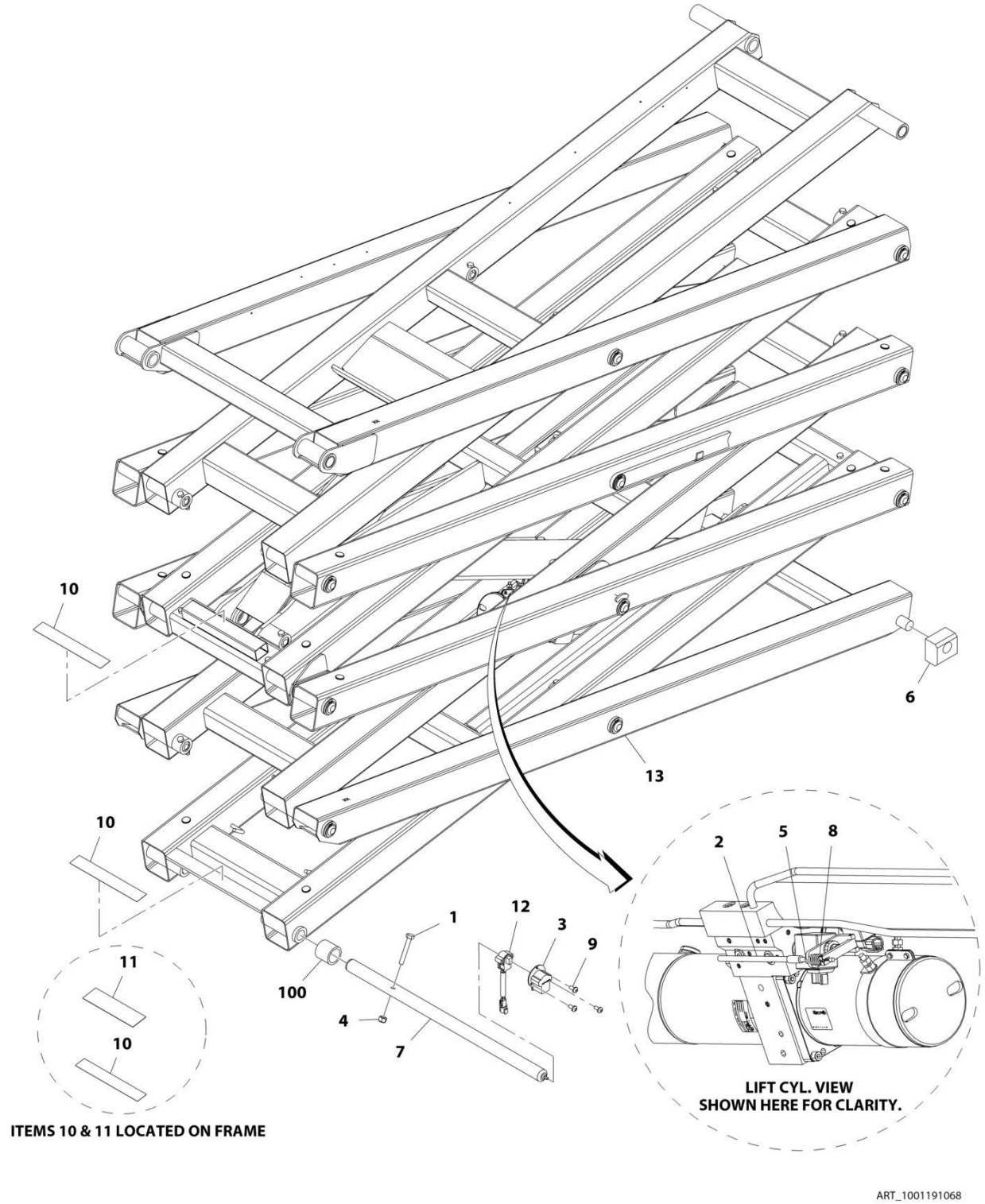
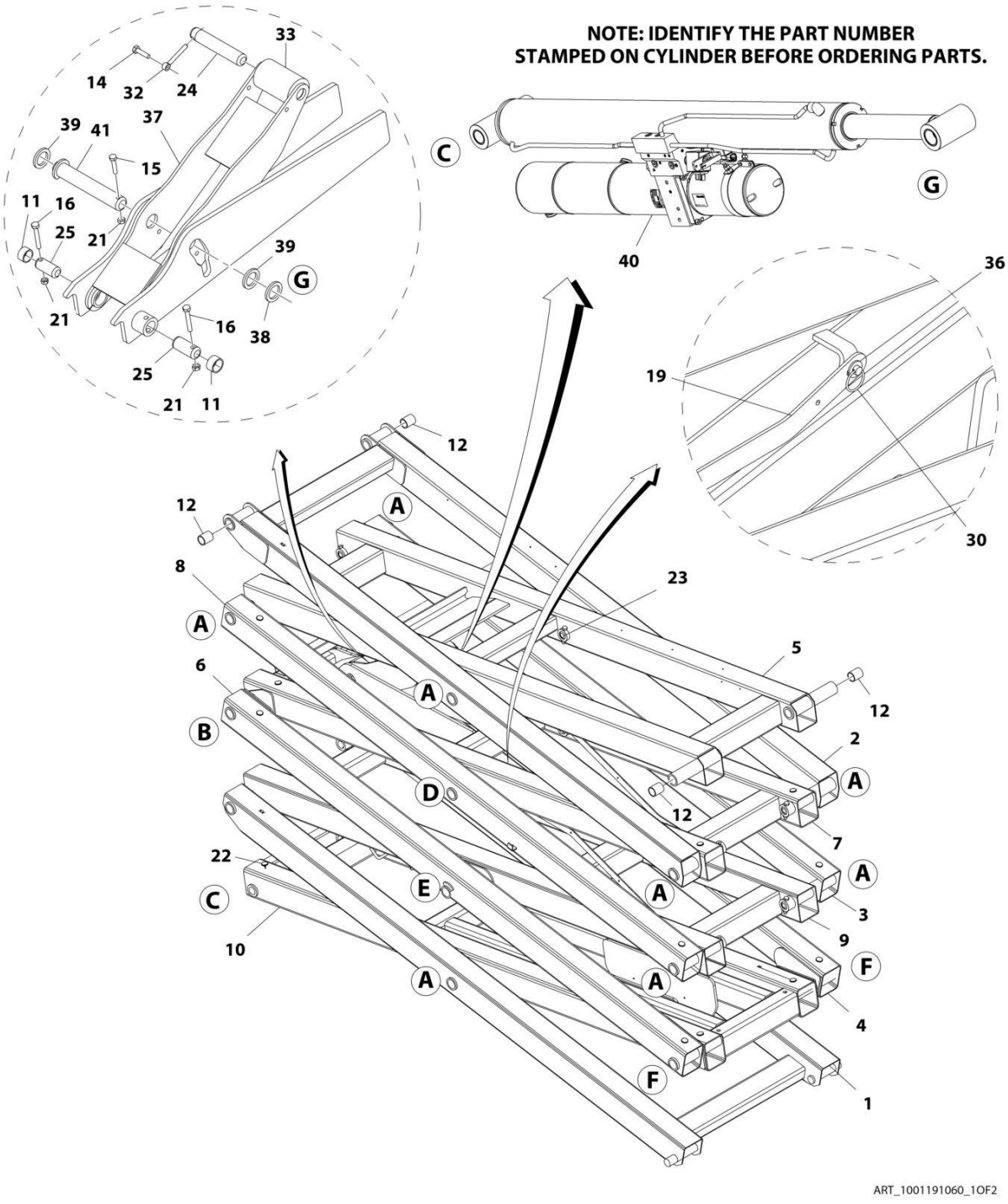
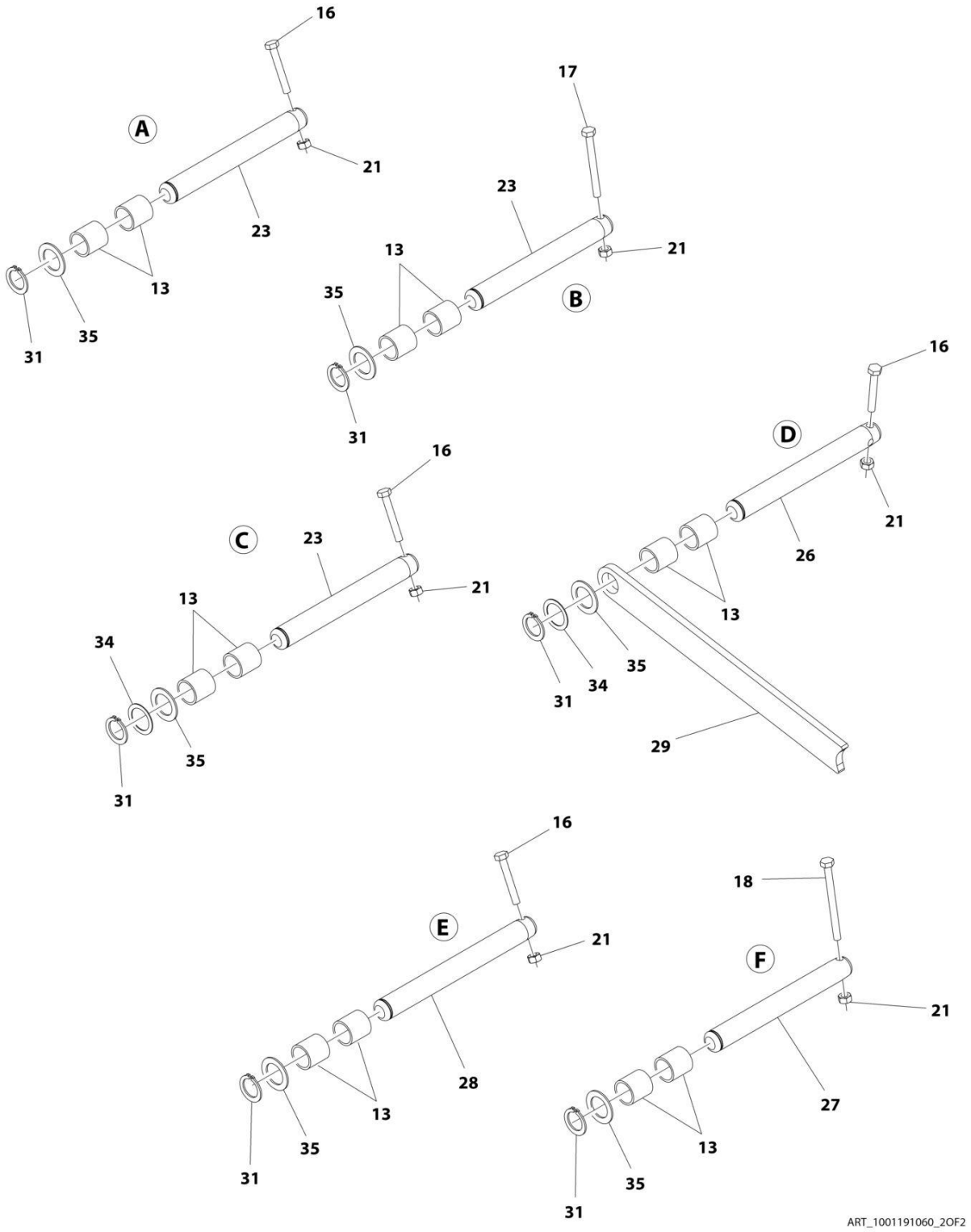


FIGURE 3-19. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 through M200022032)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191068	Ref	SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Thread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191060	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL for Breakdown)	
100	0440265	2	Bushing (Part of Flame Weldment)	

FIGURE 3-20. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)




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FIGURE 3-20. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191060	Ref	SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN 0200241221 through 0200260988, SN M200000100 through M200006323)**	
1	1001219386	1	Arm - Lower Outboard **(SN 0200260989 to Present, SN M200006324 through M200039292)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291007	25	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3423170	1	Pin	
29	3574161	1	Bar, Prop Attach	
30	3760170	4	Ring, Split	
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860104	1	Roller, Arm Kicker	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer	
36	4812000	4	Washer M10	
37	4846684	1	Kicker, Weldment	
38	1001139000	1	Plate	
39	1001139002	2	Washer	
40	1001155844	1	Lift Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
41	1001191121	1	Pin	

FIGURE 3-21. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

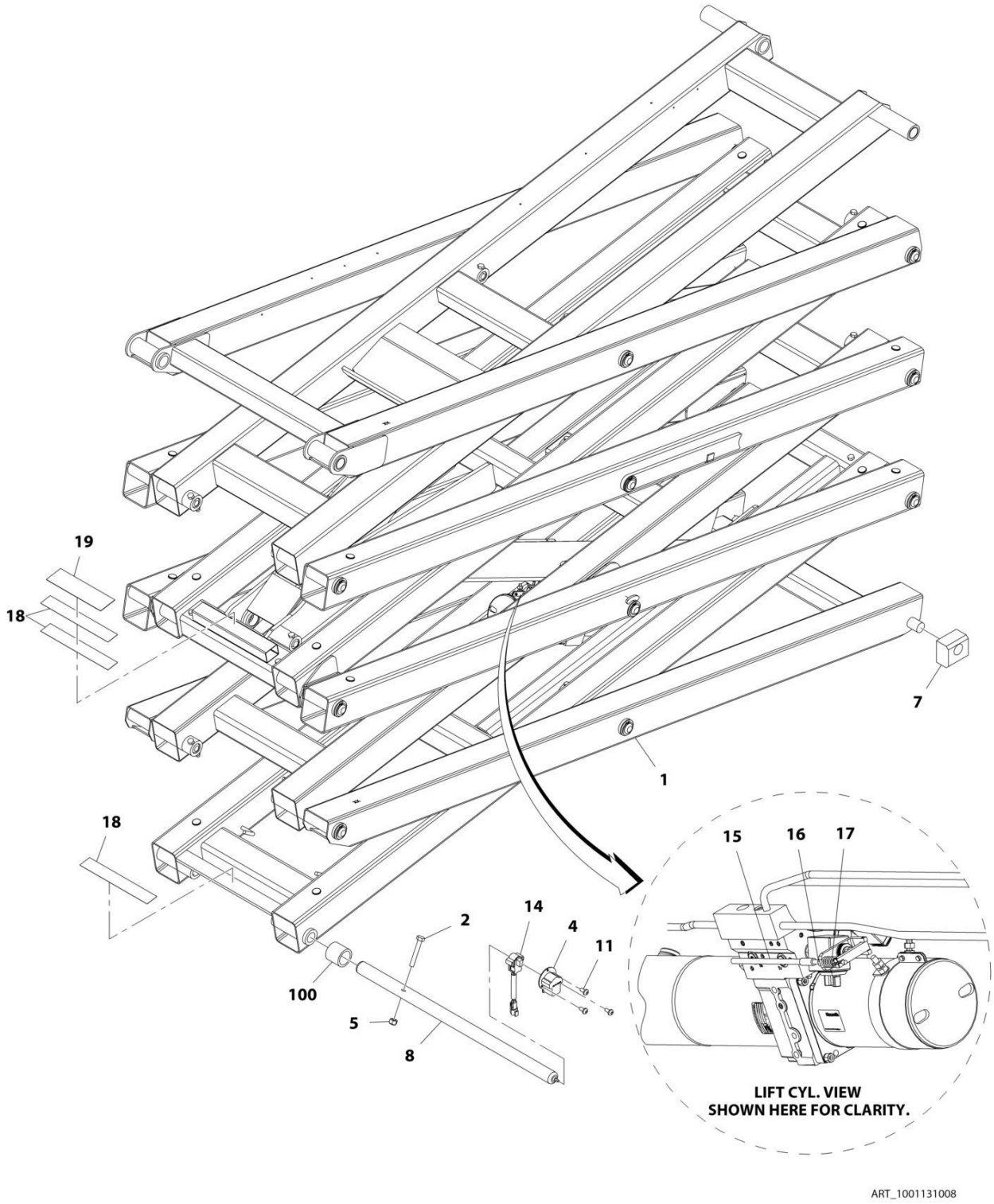
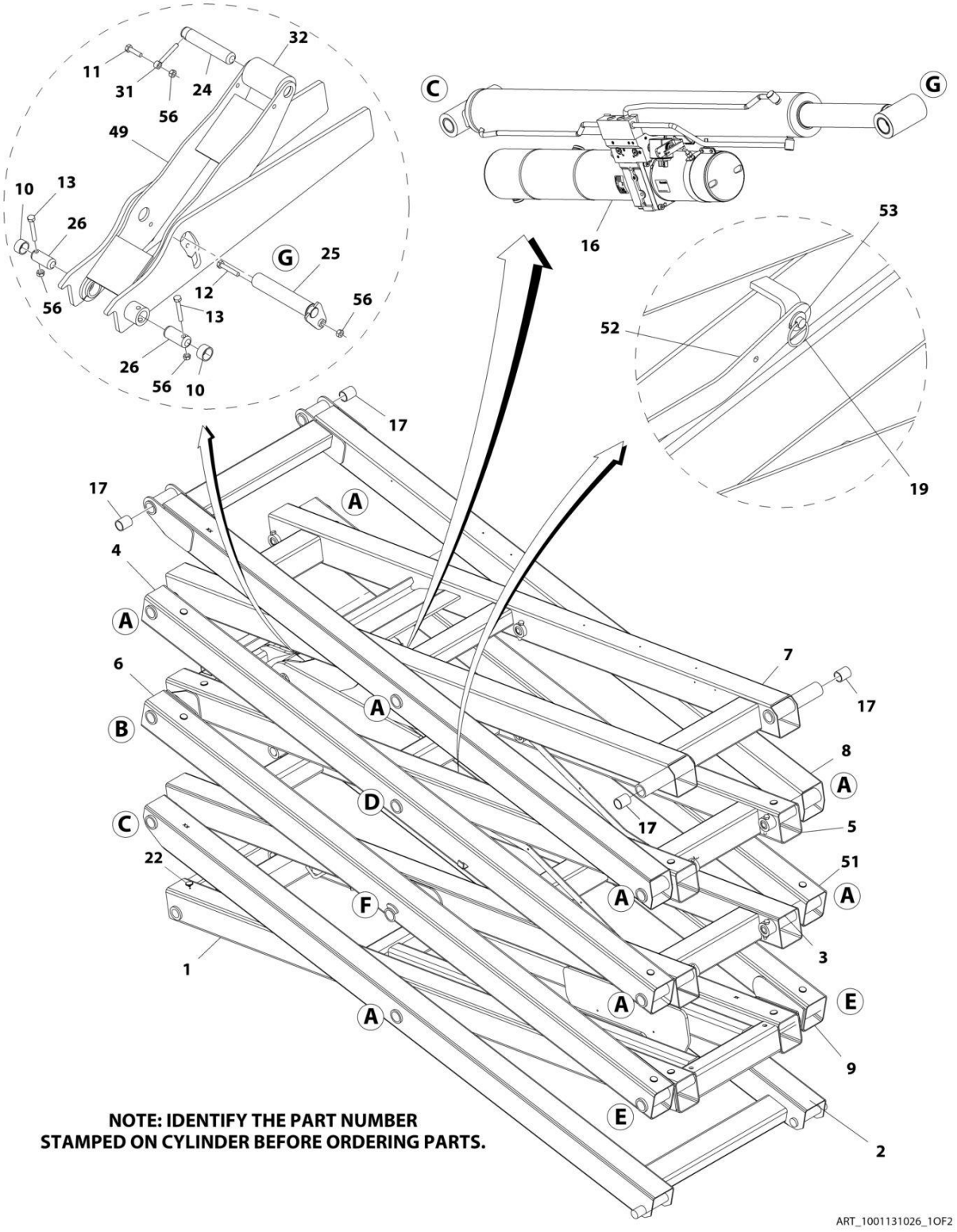
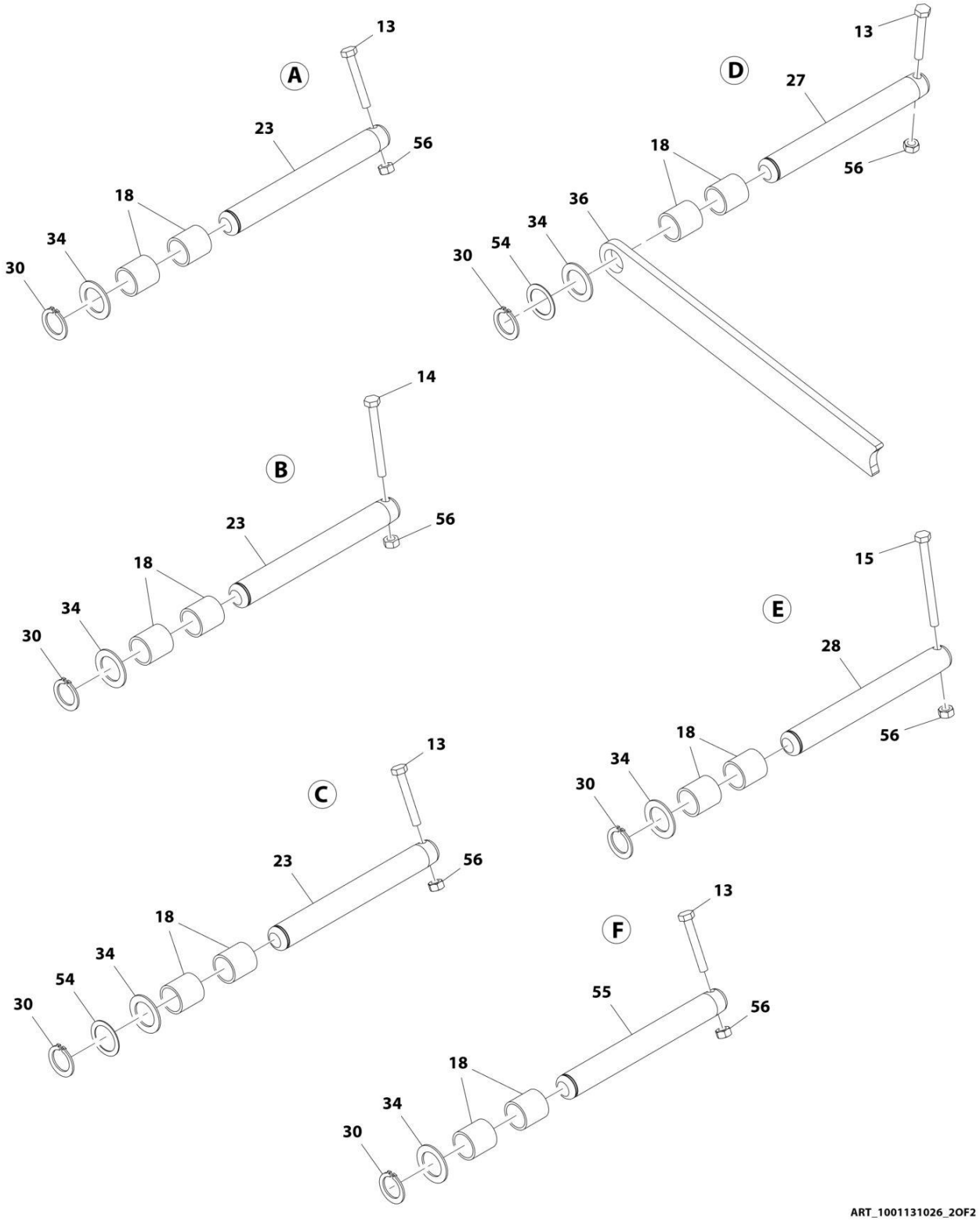


FIGURE 3-21. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131008	Ref	SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES)	E
1	1001131026	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL for Breakdown)	
2	0701022	1	Bolt M10 x 70	
4	3200454	1	Mount, Switch	
5	3291005	1	Nut M10	
7	3340957	2	Pad, Slide	
8	3423255	1	Pin, Sensor	
11	4191706	3	Screw M6 x 12	
14	1001092354	1	Switch, Rotary Angle Sensor	
14	4460536	1	Receptacle, Female - 3 Position	
14	4460464	3	Pin, Male	
15	1061034	1	Cable, Manual Descent	
15	7020218	1	T-Handle (With 1/4-20 Threads)	
15	70001878	1	T-Handle (With 5mm Threads)	
16	3321402	1	Nut 1/4-28	
17	4160078	1	Spring, Compression	
18	4420070	3	Tape, Anti-Skid	
19	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-22. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)




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FIGURE 3-22. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131026	Ref	SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES)	G
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Lower Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001129292	1	Lift Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423009	NLA	Pin (Use p/n 1001226707)	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller, Arm Kicker	
34	4740438	20	Washer	
36	3574161	1	Bar, Prop Attach	
49	4846684	1	Weld, Kicker	
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Washer M10	
54	4071094	1	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	25	Nut M10	

FIGURE 3-23. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (BELGIUM, CHINA AND MEXICO BUILT MACHINES) (SN 1200025021 to Present, SN B200020982 to Present, SN M200022033 to Present)

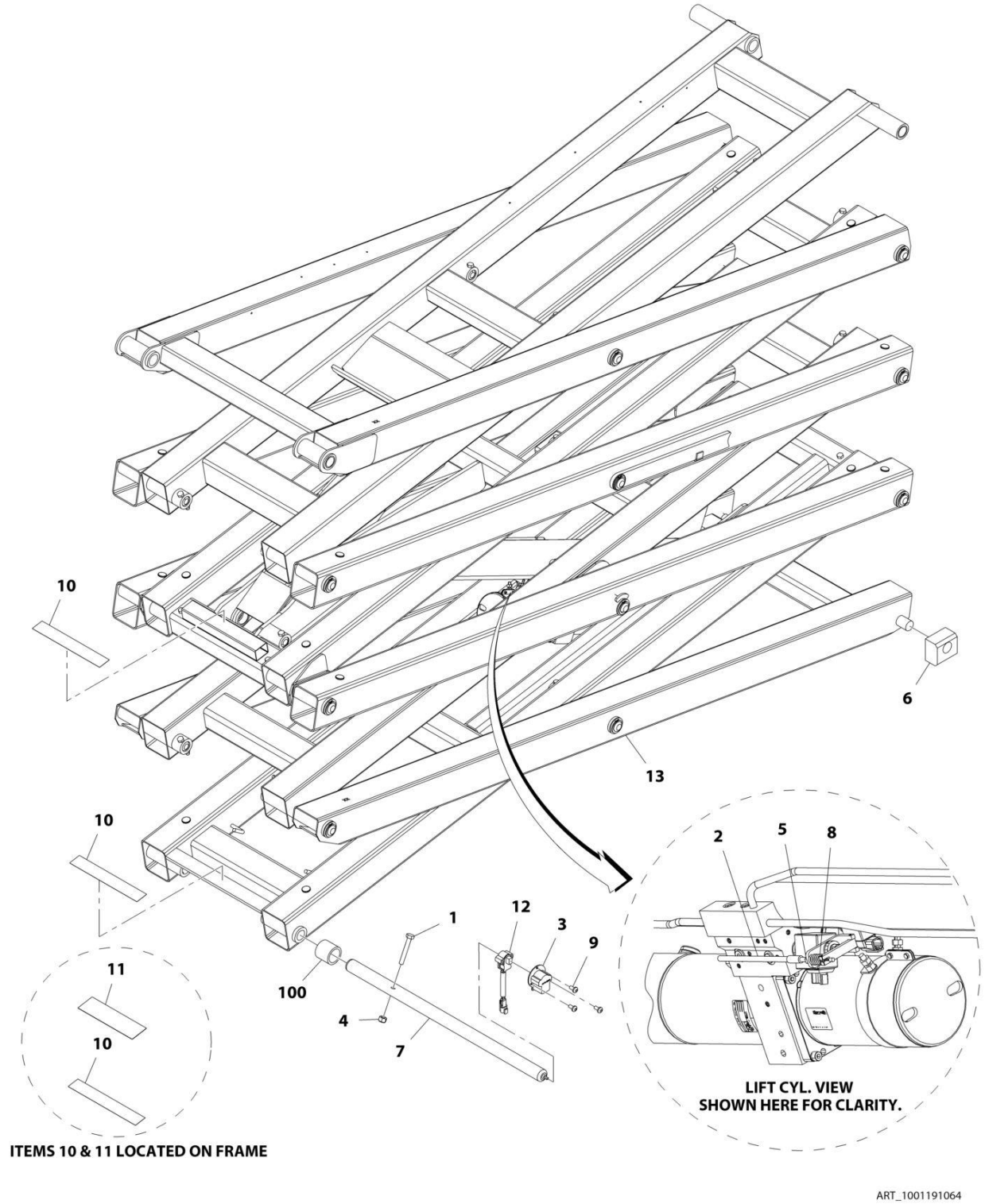
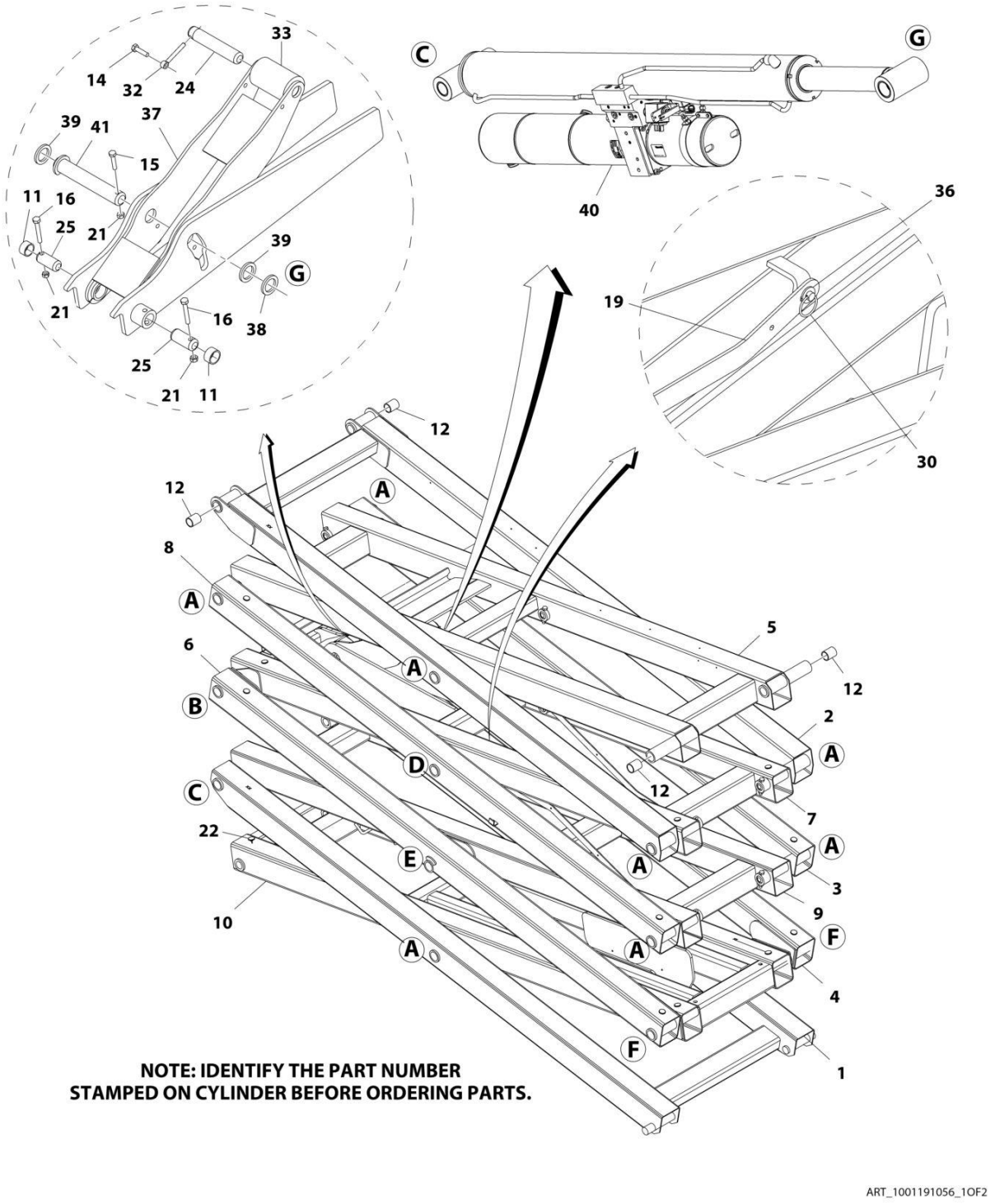
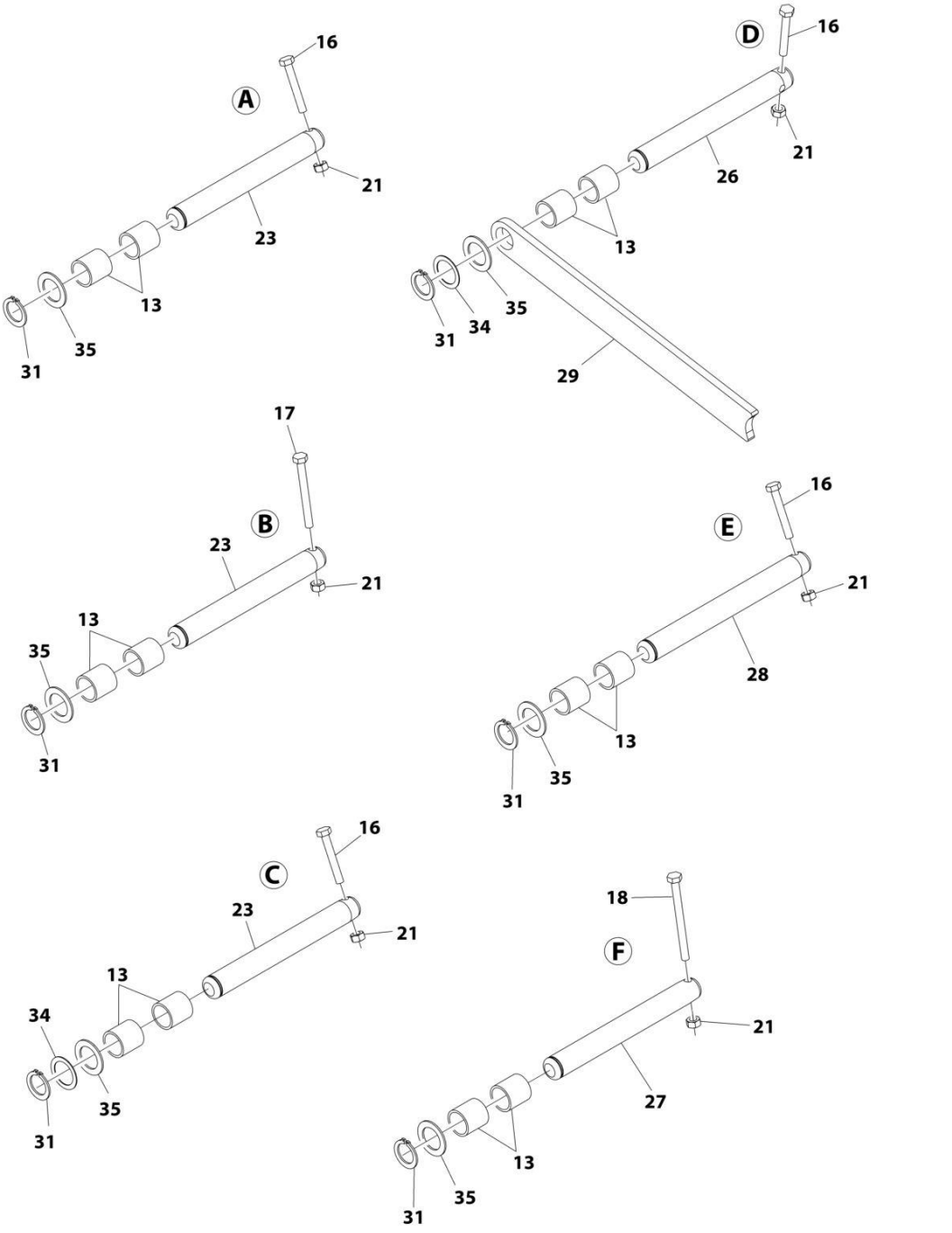


FIGURE 3-23. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (BELGIUM, CHINA AND MEXICO BUILT MACHINES) (SN 1200025021 to Present, SN B200020982 to Present, SN M200022033 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191064	Ref	SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Tread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191056	1	Arms Assembly (See Separate Breakdown in this Section)	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-24. SCISSORS ARMS INSTALLATION - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)





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FIGURE 3-24. SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191056	Ref	SCISSORS ARMS ASSEMBLY - 3246ES STANDARD HYDRAULIC OIL (CHINA BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN B200020982 through B200037413)**	
1	1001219386	1	Arm - Lower Outboard **(SN B200037414 to Present)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291007	25	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3760170	1	Pin	
29	3574161	1	Bar, Prop Attach	
30	3423170	4	Right, Split	
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860104	1	Roller, Arm Kicker	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer	
36	4812000	4	Washer M10	
37	4846684	1	Kicker Weldment	
38	1001139000	1	Plate	
39	1001139002	2	Washer	
40	1001129292	1	Life Cylinder Assembly - Standard Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
41	1001191121	1	Pin	

FIGURE 3-25. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

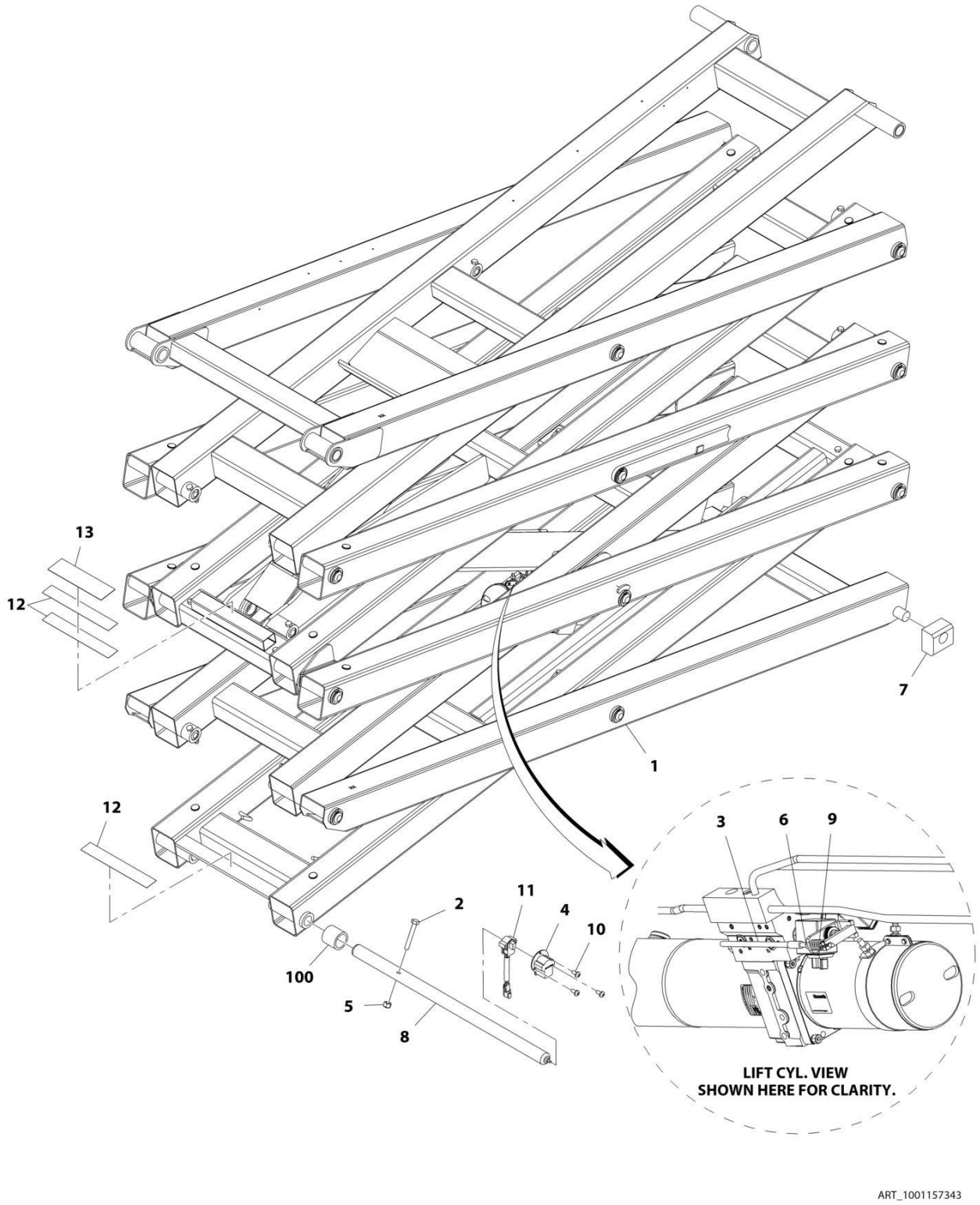
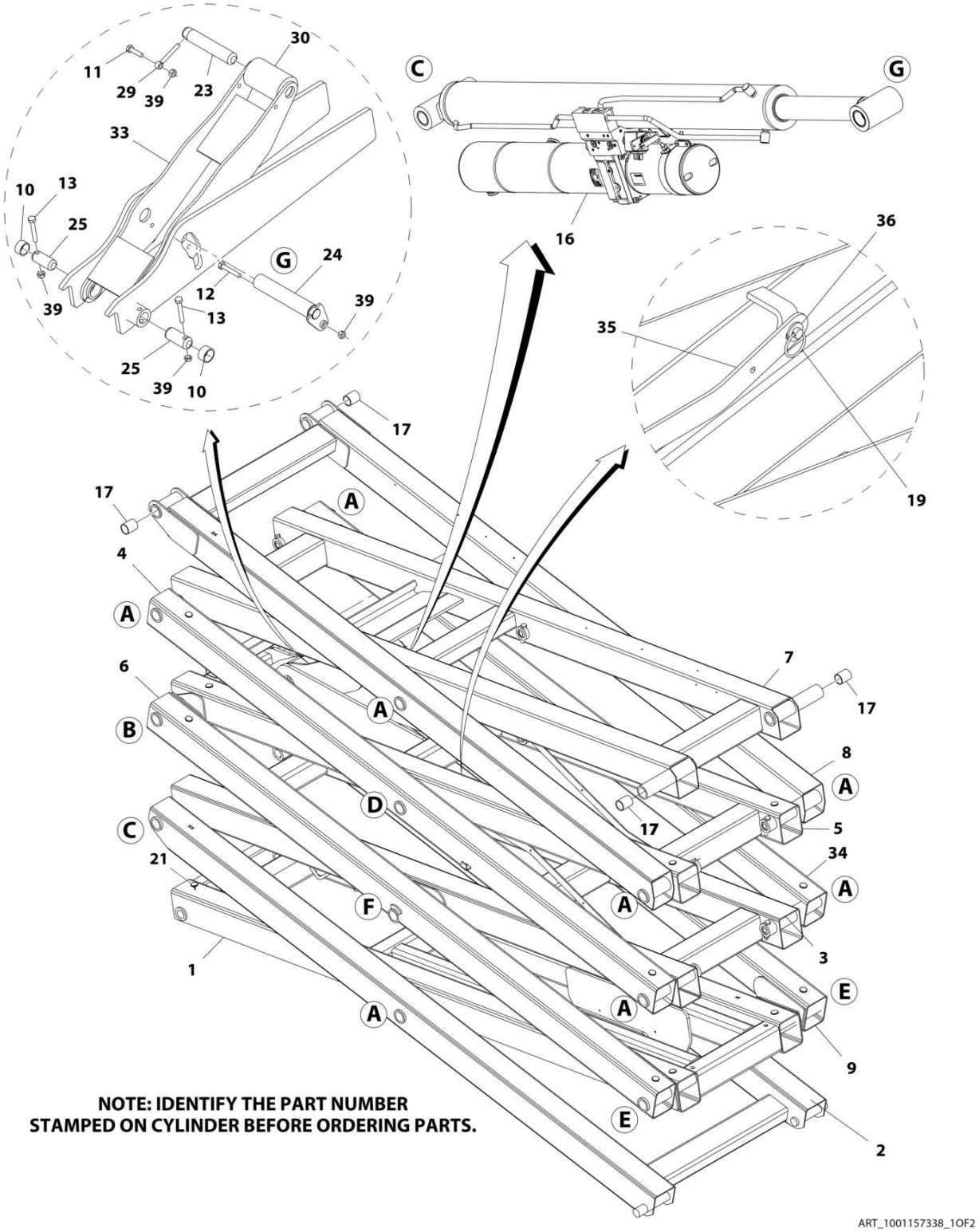
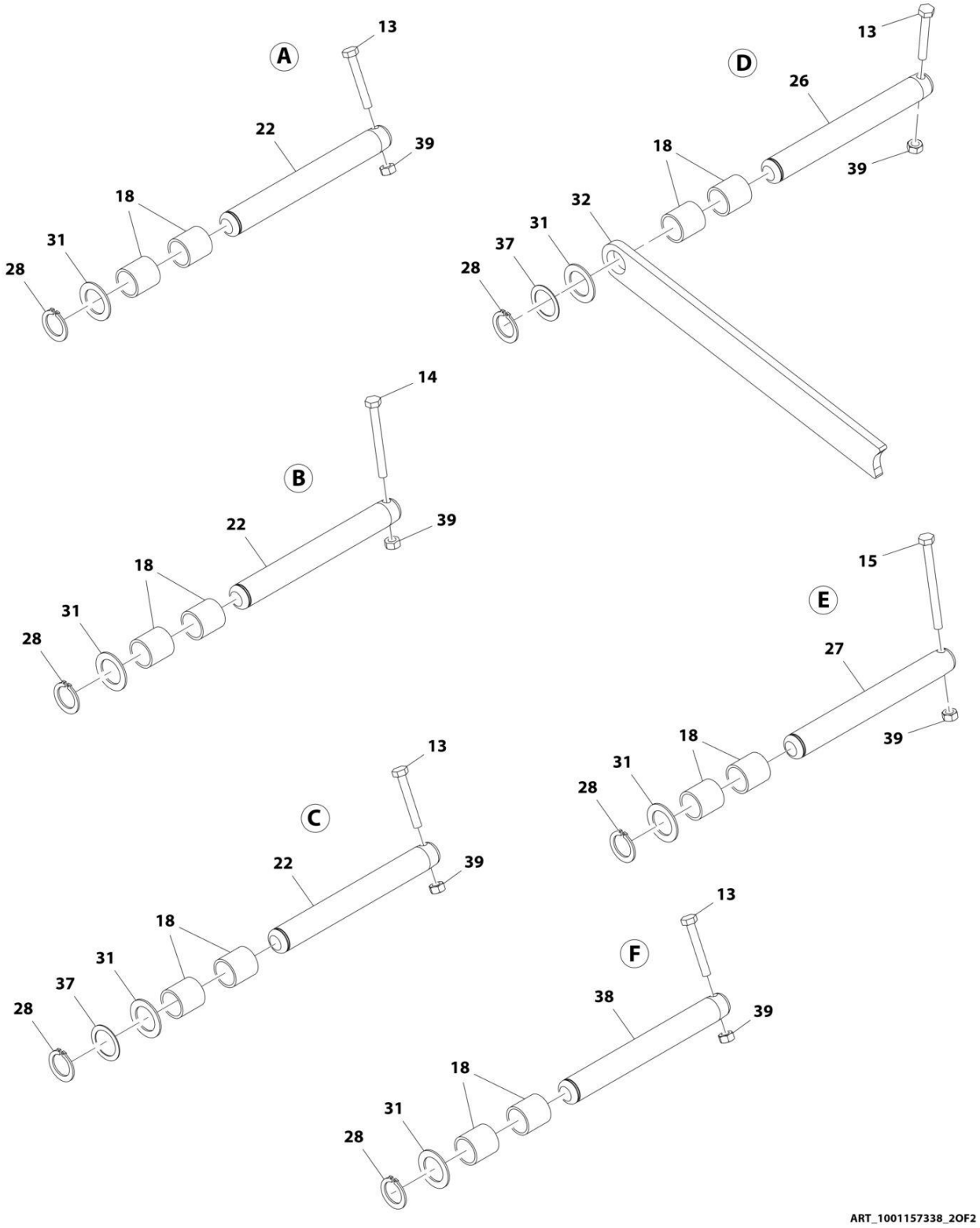


FIGURE 3-25. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157343	Ref	SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES)	B
1	1001157338	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) for Breakdown)	
2	0701022	1	Bolt M10 x 70	
3	1061034	1	Cable, Manual Descent	
3	7020218	1	T-Handle (With 1/4-20 Threads)	
3	70001878	1	T-Handle (With 5mm Threads)	
4	3200454	1	Mount, Switch	
5	3291005	1	Nut M10	
6	3321402	1	Nut 1/4-28	
7	3340957	2	Pad, Slide	
8	3423255	1	Pin, Sensor	
9	4160078	1	Spring, Compression	
10	4191706	3	Screw M6 x 12	
11	1001092354	1	Switch, Rotary Angle Sensor	
11	4460536	1	Receptacle, Female - 3 Position	
11	4460464	3	Pin, Male	
12	4420070	3	Tape, Anti-Skid	
13	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-26. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)




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FIGURE 3-26. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES) (SN 0200239382 through 0200241220)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157338	Ref	SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA BUILT MACHINES)	B
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Lower Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001157333	1	Lift Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
21	3340962	24	Pad, Arm	
22	3422997	17	Pin	
23	3422998	1	Pin	
24	3423009	NLA	Pin (Use p/n 1001226707)	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3760387	20	Ring, Retaining	
29	3841143	1	Keeper, Pin	
30	3860104	1	Roller, Arm Kicker	
31	4740438	20	Washer	
32	3574161	1	Bar, Prop Attach	
33	4846684	1	Weld, Kicker	
34	0200820	1	Arm - Upper Mid Outboard (Left Side)	
35	1180380	2	Carrier, Cable	
36	4812000	4	Washer M10	
37	4071094	1	Shim, Spacer	
38	3423170	1	Pin	
39	3291007	25	Nut M10	

FIGURE 3-27. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

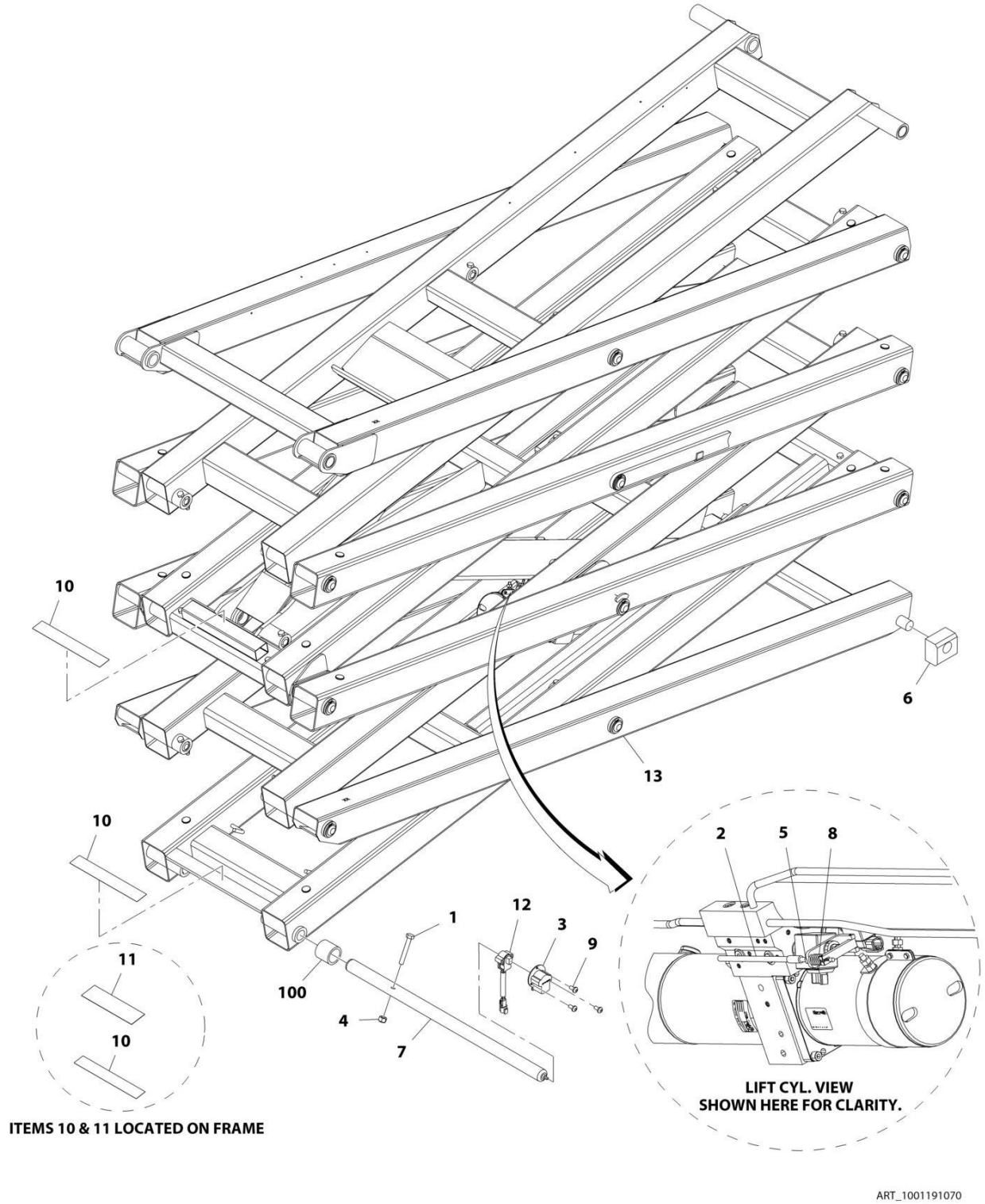
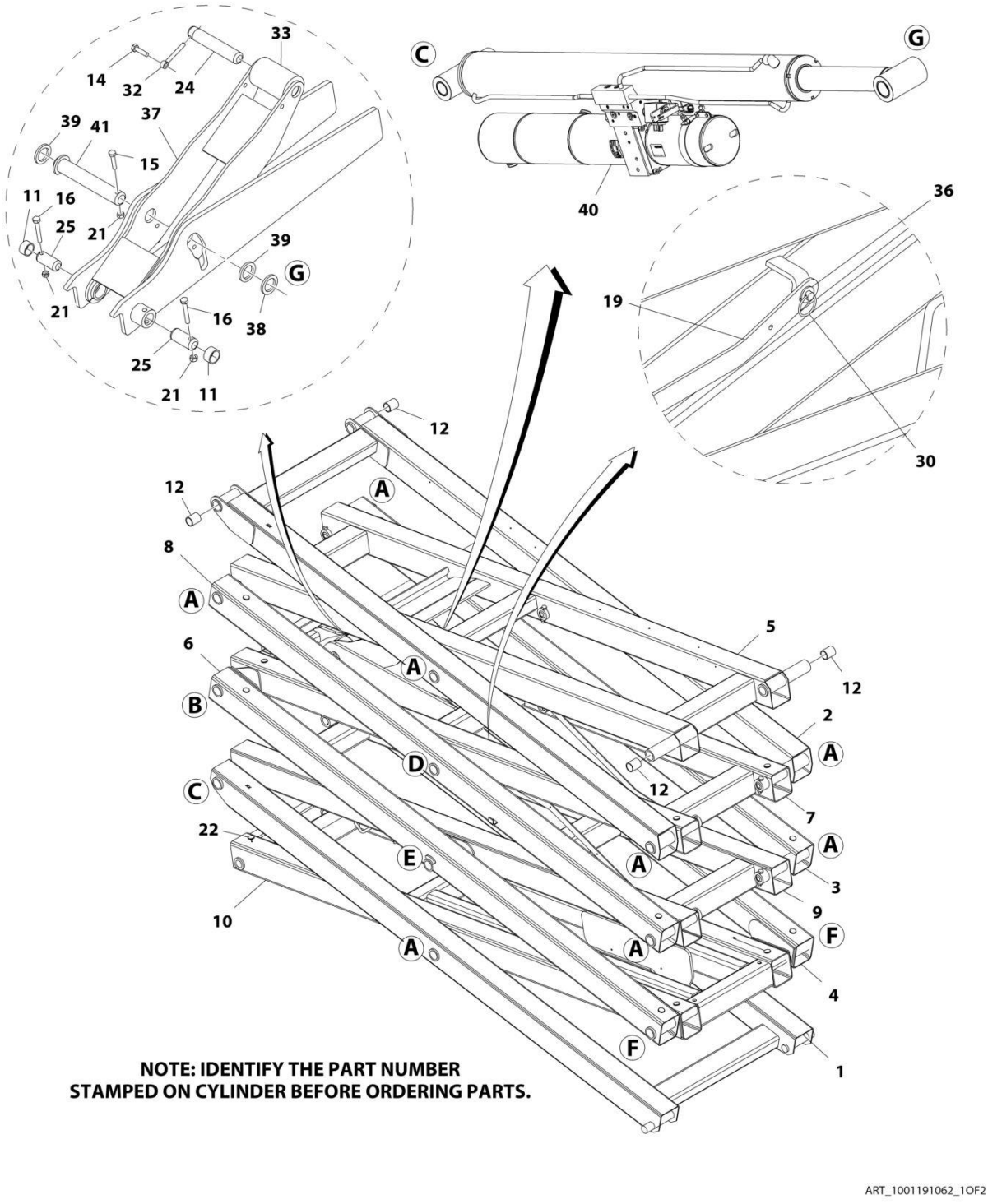


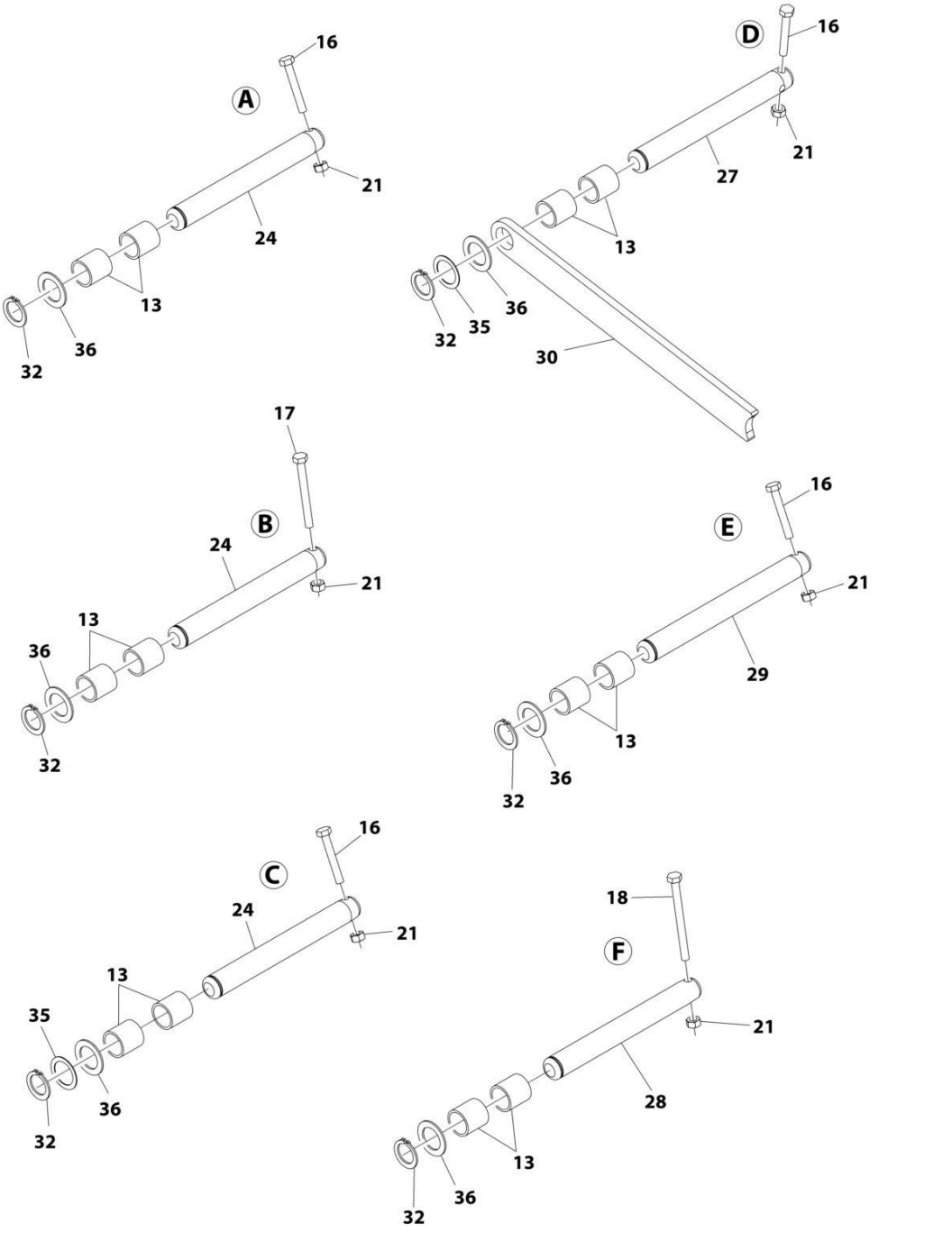
FIGURE 3-27. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191070	Ref	SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Tread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191062	1	Arms Assembly (See Separate Breakdown in CYLINDER SECTION)	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-28. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)



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FIGURE 3-28. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES) (SN 0200241221 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191062	Ref	SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (USA AND MEXICO BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN 0200241221 through 0200260988, SN M200000100 through M200006323)**	
1	1001219386	1	Arm - Lower Outboard **(SN 0200260989 to Present, SN M200006324 through M200039292)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291007	25	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3760170	1	Pin	
29	3574161	1	Bar, Prop Attach	
30	3423170	4	Right, Split	
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860104	1	Roller, Arm Kicker	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer	
36	4812000	4	Washer M10	
37	4846684	1	Kicker Weldment	
38	1001139000	1	Plate	
39	1001139002	2	Washer	
40	1001157333	1	Life Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
41	1001191121	1	Pin	

FIGURE 3-29. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

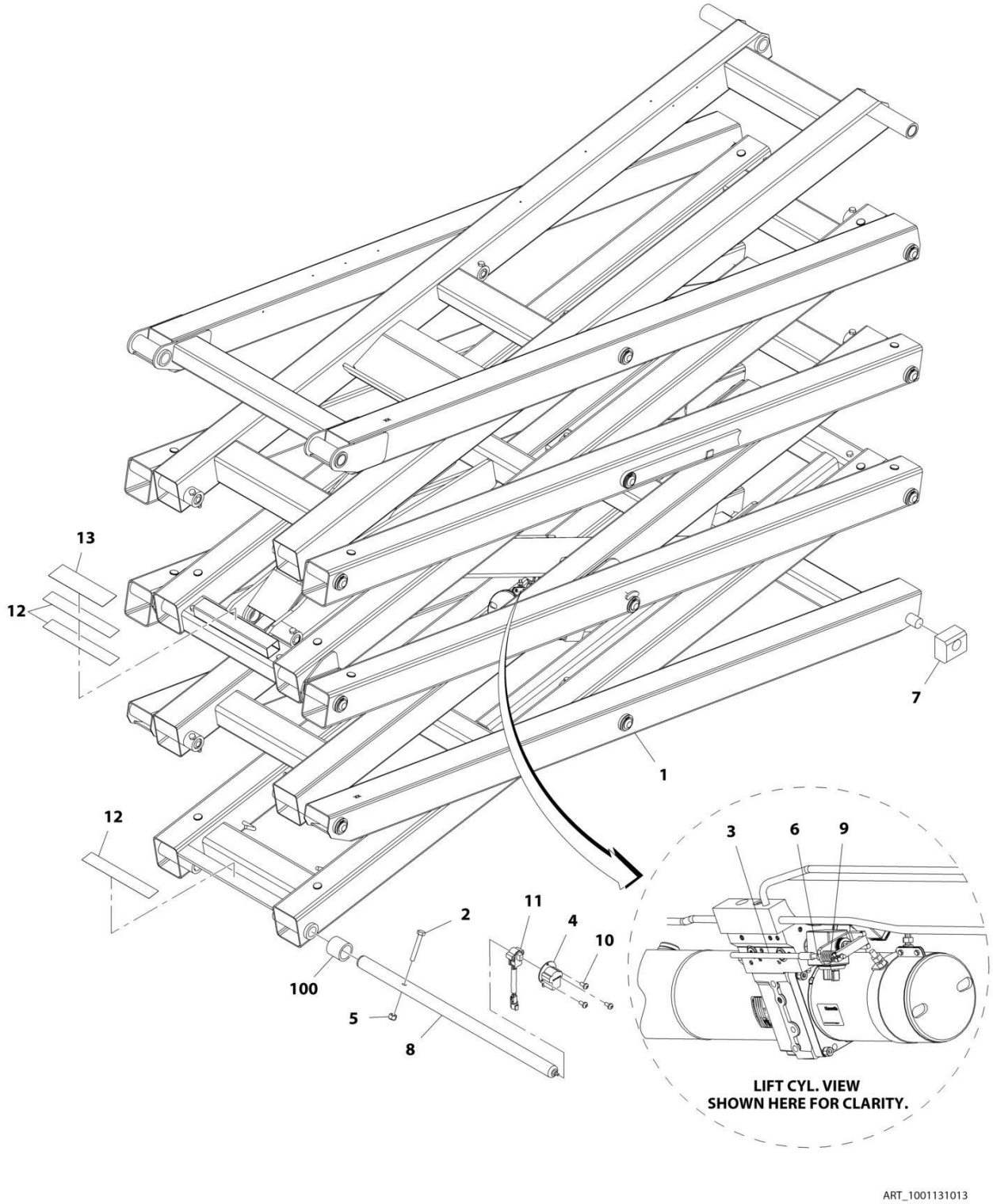
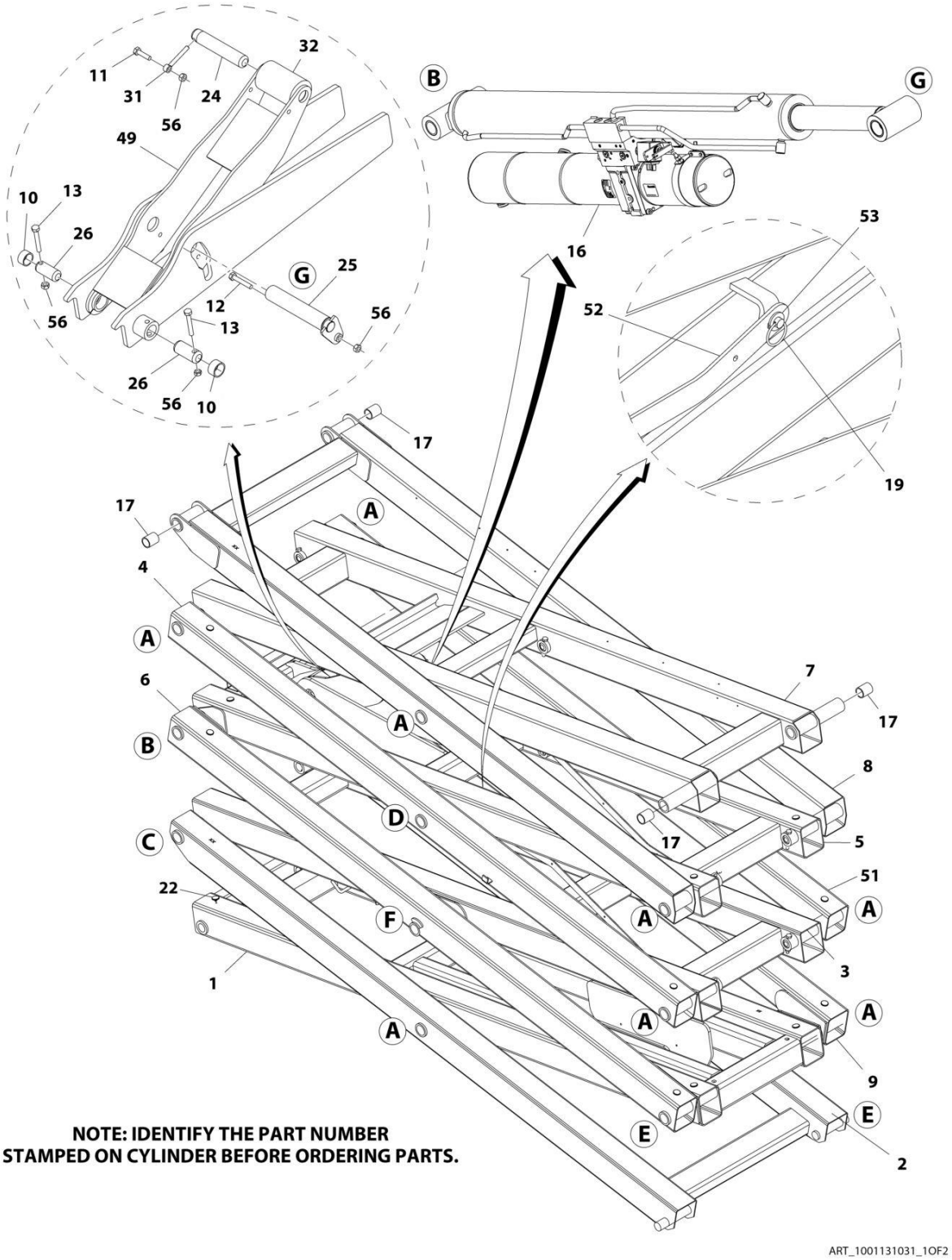
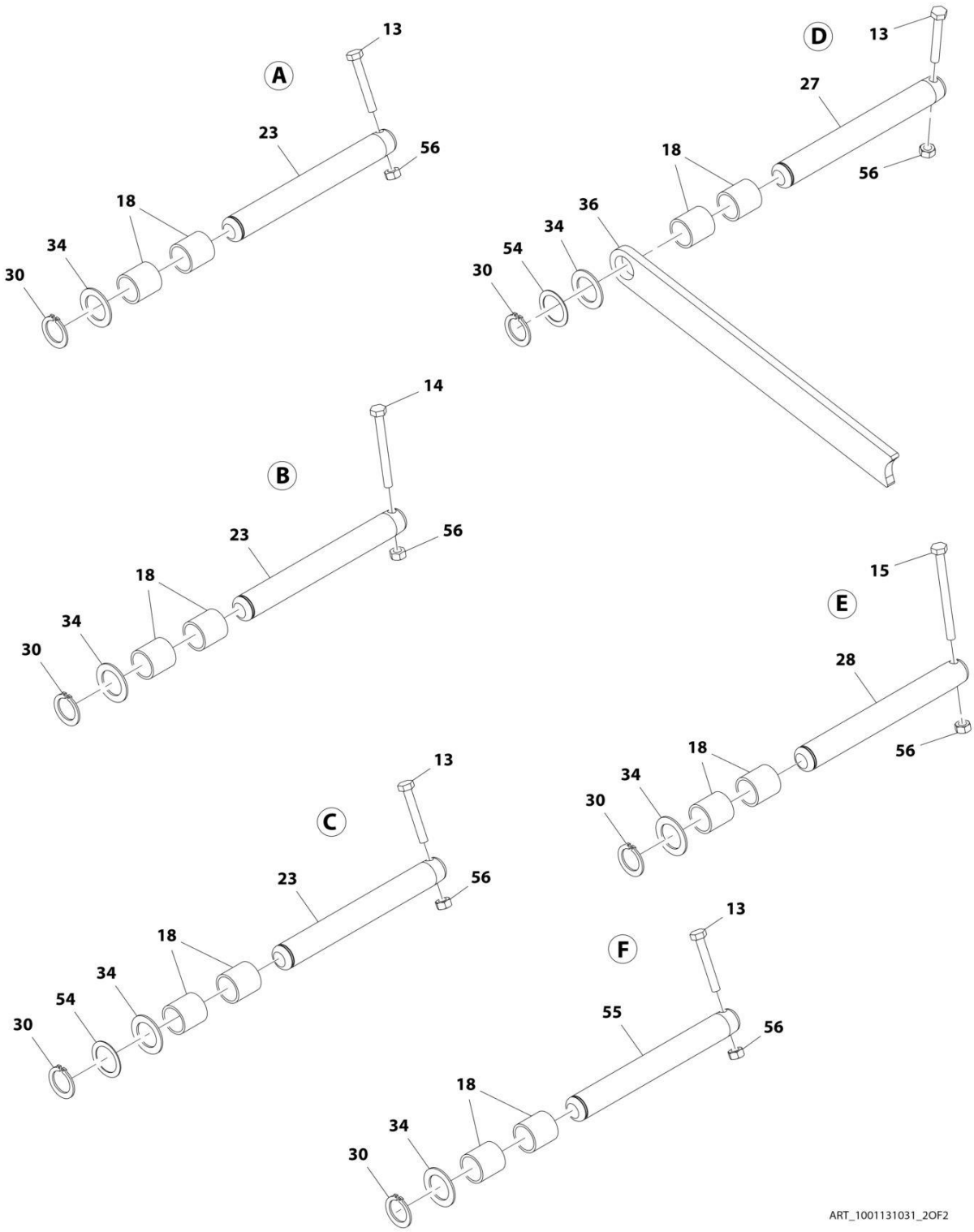


FIGURE 3-29. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131013	Ref	SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES)	D
1	1001131031	1	Arms Assembly (See SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL for Breakdown)	
2	0701022	1	Bolt M10 x 70	
3	1061034	1	Cable, Manual Descent	
3	7020218	1	T-Handle (With 1/4-20 Threads)	
3	70001878	1	T-Handle (With 5mm Threads)	
4	3200454	1	Mount, Switch	
5	3291005	1	Nut M10	
6	3321402	1	Nut 1/4-28	
7	3340957	2	Pad, Slide	
8	3423255	1	Pin, Sensor	
9	4160078	1	Spring, Compression	
10	4191706	3	Screw M6 x 12	
11	1001092354	1	Switch, Rotary Angle Sensor	
11	4460536	1	Receptacle, Female - 3 Position	
11	4460464	3	Pin, Male	
12	4420070	3	Tape, Anti-Skid	
13	4420080	1	Tape, Safety Tread Step	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-30. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)




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FIGURE 3-30. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020297 through B200020981)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131031	Ref	SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES)	E
1	0200832	1	Arm - Lower Inboard	
2	0200783	1	Arm - Upper Outboard	
3	0200831	1	Arm - Lower Mid Inboard	
4	0200830	1	Arm - Upper Mid Outboard (Right Side)	
5	0200829	1	Arm - Upper Mid Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200827	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200826	1	Arm - Lower Mid Outboard (Left Side)	
10	0440257	2	Bearing	
11	0701016	1	Bolt M10 x 40	
12	0701020	1	Bolt M10 x 60	
13	0701022	19	Bolt M10 x 70	
14	0701027	2	Bolt M10 x 100	
15	0701029	2	Bolt M10 x 120	
16	1001131037	1	Lift Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3760170	4	Ring, Split	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423009	NLA	Pin (Use p/n 1001226707)	
26	3423011	2	Pin	
27	3423014	1	Pin	
28	3423026	2	Pin	
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller, Arm Kicker	
34	4740438	20	Washer	
36	3574161	1	Bar, Prop Attach	
49	4846684	1	Weld, Kicker	
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Washer M10	
54	4071094	1	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	25	Nut M10	

FIGURE 3-31. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

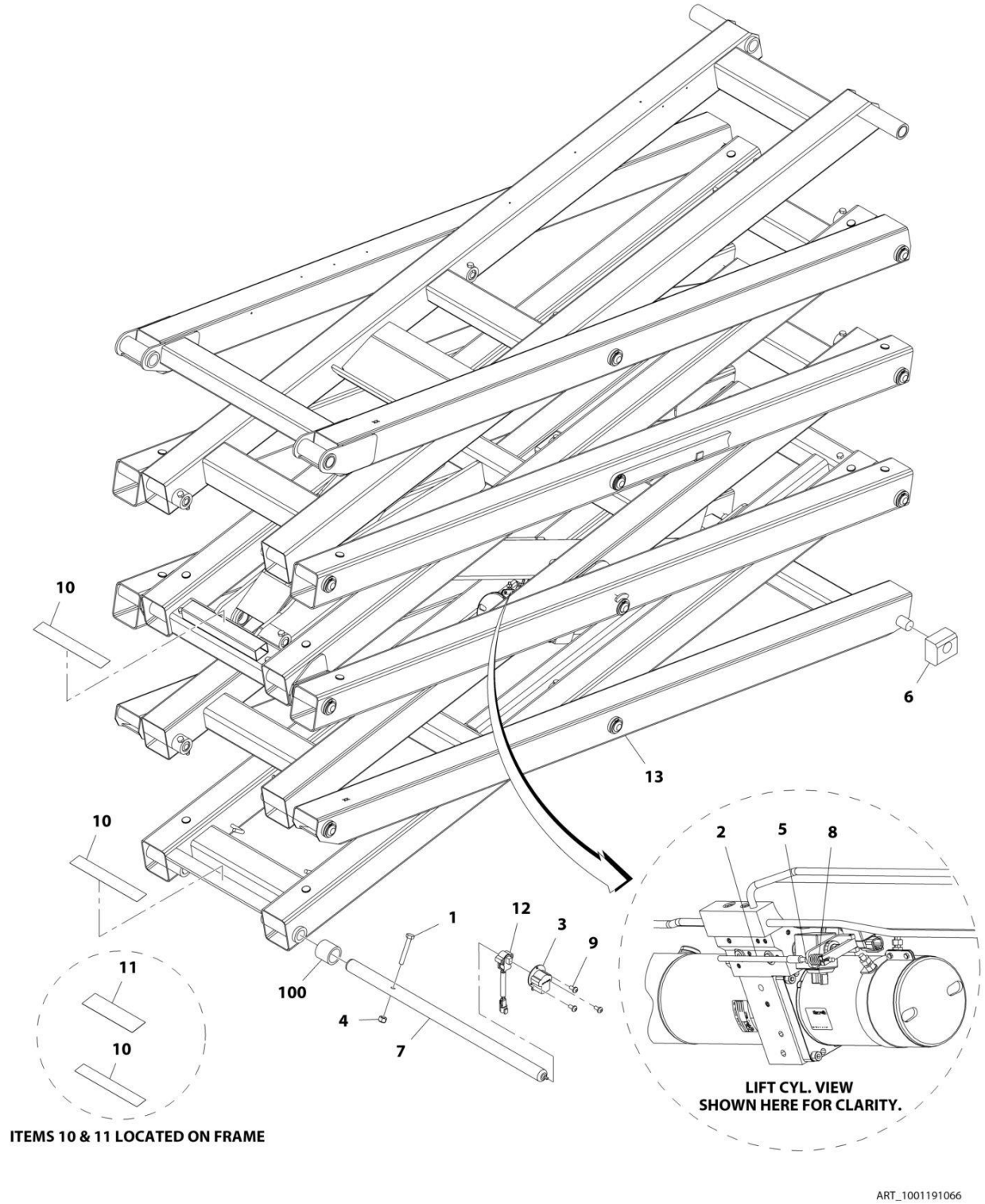
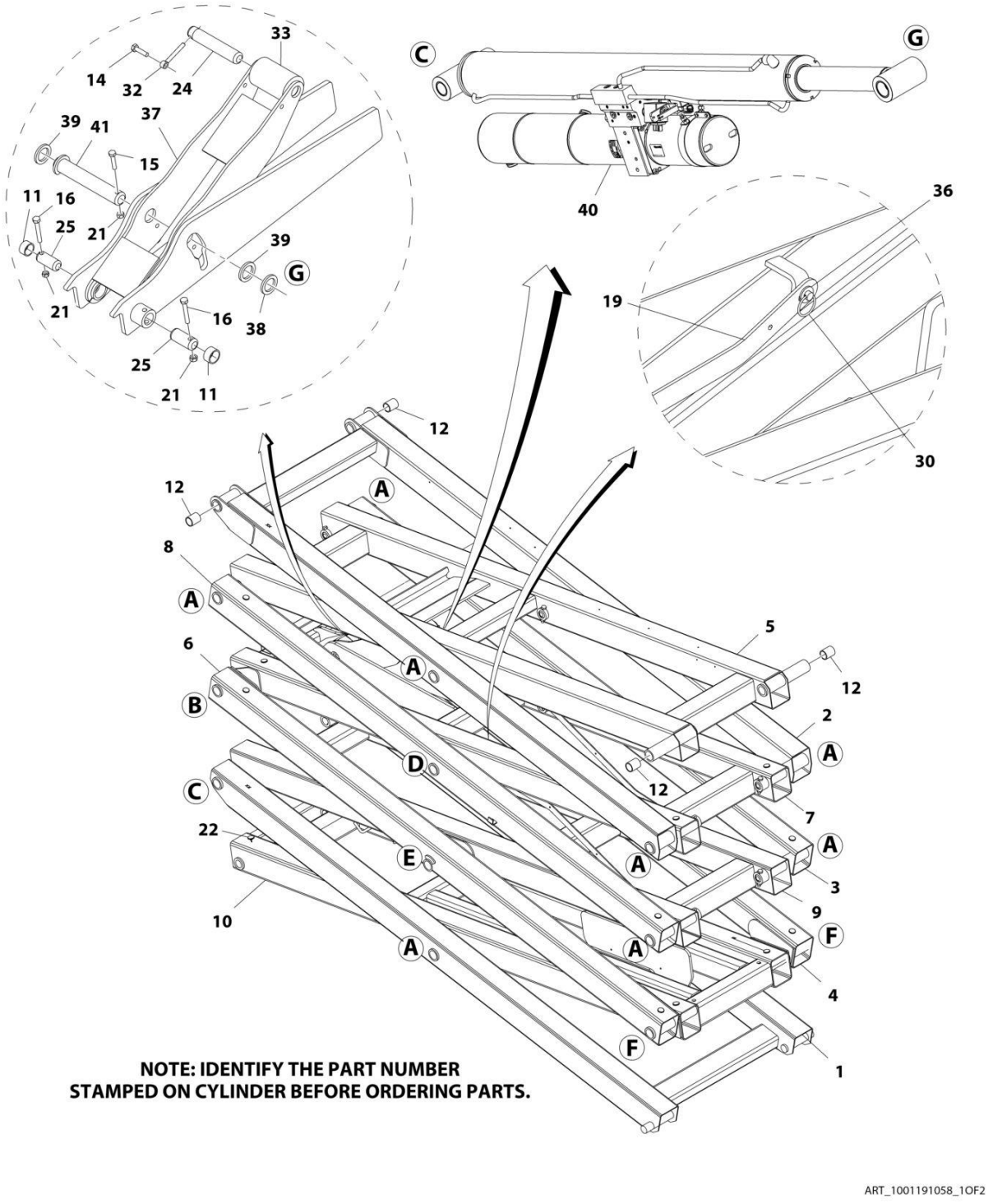
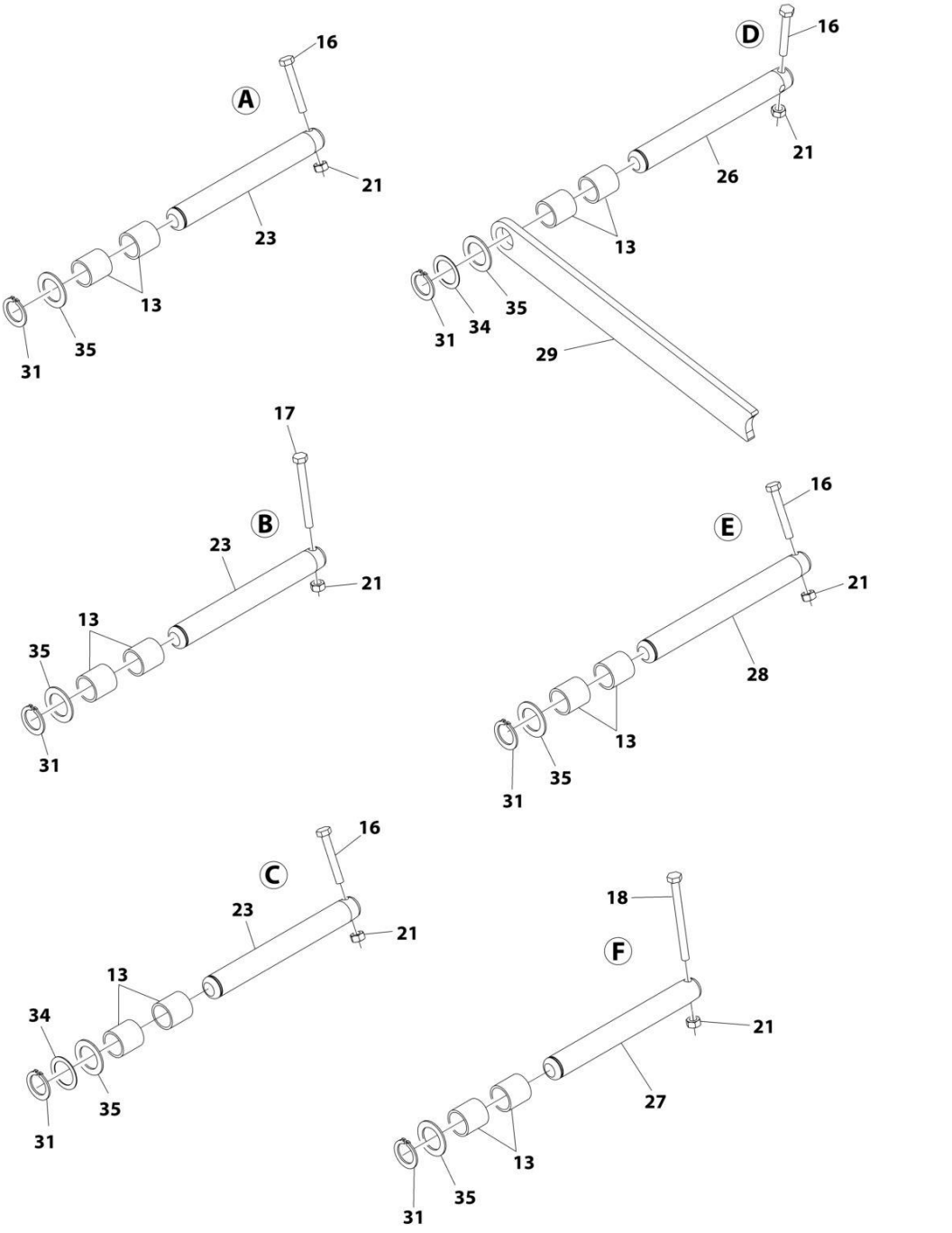


FIGURE 3-31. SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191066	Ref	SCISSORS ARMS INSTALLATION - 3246ES BIODEGRADEABLE HYDRAULIC OIL	B
1	0701022	1	Bolt M10 x 70	
2	1061034	1	Cable, Manual Descent	
2	7020218	1	T-Handle (With 1/4-20 Threads)	
2	70001878	1	T-Handle (With 5mm Threads)	
3	3200454	1	Mount, Switch	
4	3291005	1	Nut M10	
5	3321402	1	Nut 1/4-28	
6	3340957	2	Pad, Slide	
7	3423255	1	Pin, Sensor	
8	4160078	1	Spring, Compression	
9	4191706	3	Screw M6 x 12	
10	4420070	3	Tape, Anti-Skid	
11	4420080	1	Tape, Safety Tread Step	
12	1001092354	1	Switch, Rotary Angle Sensor	
12	4460536	1	Receptacle, Female - 3 Position	
12	4460464	3	Pin, Male	
13	1001191058	1	Arms Assembly (See Separate Breakdown in this Section)	
100	0440265	2	Bushing (Part of Frame Weldment)	

FIGURE 3-32. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)





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SECTION 3 - SCISSOR ARMS

FIGURE 3-32. SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES) (SN B200020982 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001191058	Ref	SCISSORS ARMS ASSEMBLY - 3246ES BIODEGRADEABLE HYDRAULIC OIL (CHINA BUILT MACHINES)	B
1	0200783	1	Arm - Lower Outboard **(SN B200020982 through B200037413)**	
1	1001219386	1	Arm - Lower Outboard **(SN B200037414 to Present)**	
2	0200789	1	Arm - Upper Outboard	
3	0200820	1	Arm - Upper Mid Outboard (Left Side)	
4	0200826	1	Arm - Lower Mid Outboard (Left Side)	
5	0200827	1	Arm - Upper Inboard	
6	0200828	1	Arm - Lower Mid Outboard (Right Side)	
7	0200829	1	Arm - Upper Mid Inboard	
8	0200830	1	Arm - Upper Mid Outboard (Right Side)	
9	0200831	1	Arm - Lower Mid Inboard	
10	0200832	1	Arm - Lower Inboard	
11	0440257	2	Bearing	
12	0440266	4	Bearing	
13	0440267	40	Bearing	
14	0701016	1	Bolt M10 x 40	
15	0701018	1	Bolt M10 x 50	
16	0701022	19	Bolt M10 x 70	
17	0701027	2	Bolt M10 x 100	
18	0701029	2	Bolt M10 x 120	
19	1180380	2	Carrier, Cable	
21	3291007	25	Nut M10	
22	3340962	24	Pad, Arm	
23	3422997	17	Pin	
24	3422998	1	Pin	
25	3423011	2	Pin	
26	3423014	1	Pin	
27	3423026	2	Pin	
28	3423170	1	Pin	
29	3574161	1	Bar, Prop Attach	
30	3760170	4	Right, Split	
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860104	1	Roller, Arm Kicker	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer	
36	4812000	4	Washer M10	
37	4846684	1	Kicker Weldment	
38	1001139000	1	Plate	
39	1001139002	2	Washer	
40	1001131037	1	Life Cylinder Assembly - Biodegradeable Hydraulic Oil (See CYLINDER SECTION for Breakdown)	
41	1001191121	1	Pin	

SECTION 4 - PLATFORM

SECTION 4 - PLATFORM

FIGURE 4-1. PLATFORM INSTALLATION - WITH INSIDE EXTENSION RAILS AND WITHOUT LSS

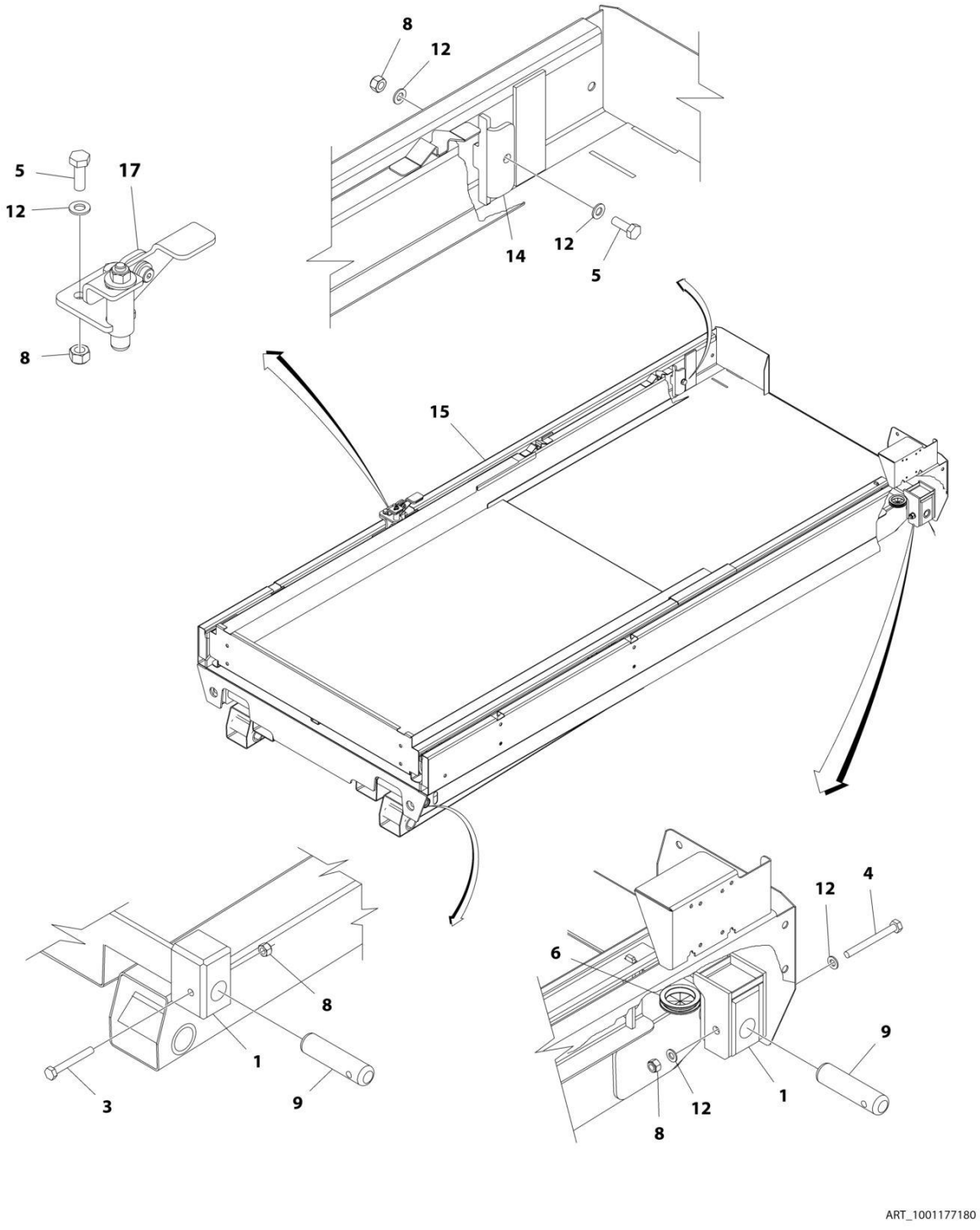


FIGURE 4-1. PLATFORM INSTALLATION - WITH INSIDE EXTENSION RAILS AND WITHOUT LSS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001177180	Ref	PLATFORM INSTALLATION - WITH INSIDE EXTENSION RAILS AND WITHOUT LSS	F
1	0561520	4	Block, Slide	
3	0701024	2	Bolt M10 x 80	
4	0701027	2	Bolt M10 x 100	
5	0761014	4	Bolt M10 x 30	
6	2540045	1	Grommet	
8	3291005	8	Nut M10	
9	3423049	4	Pin, Latch	
12	4812000	10	Washer M10	
14	1001175188	2	Bracket, Stop	
15	1001175461	1	Platform and Extension Assembly - With Inside Extension Rails (See PLATFORM AND EXTENSION ASSEMBLY - WITH INSIDE EXTENSION RAILS for Breakdown)	
17	1001182302	1	Latch Assembly - With Inside Extension Rails (See LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS for Breakdown) **(SN 1200025021 through 1200030233, SN B200020297 through B200051184, SN M200000100 through M200021520)**	
17	1001234398	1	Latch Assembly - With Inside Extension Rails (See LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS for Breakdown) **(SN 1200030234 to Present, SN B200051185 to Present, SN M200021521 through M200039292)**	

FIGURE 4-2. PLATFORM INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND WITHOUT LSS

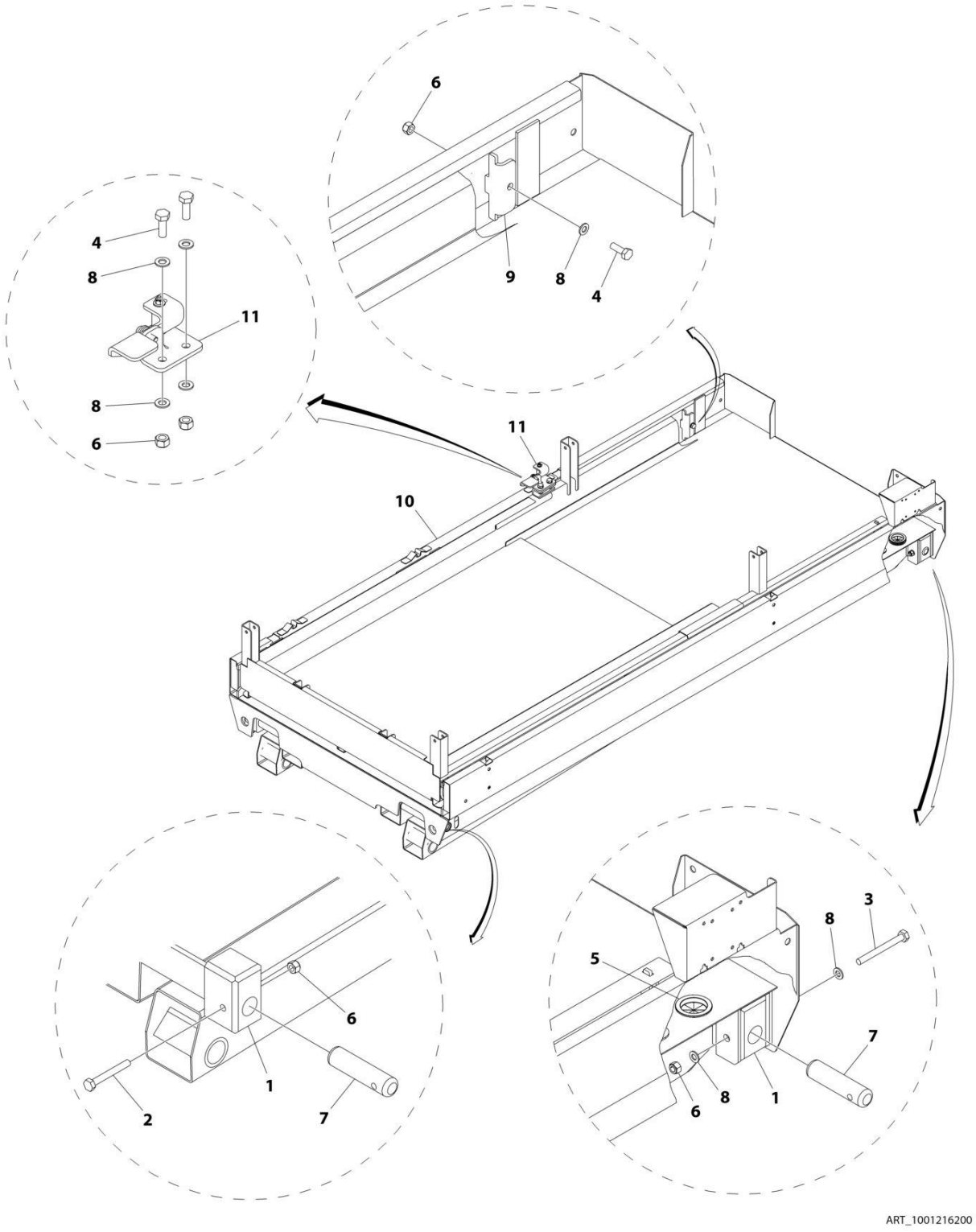


FIGURE 4-2. PLATFORM INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND WITHOUT LSS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001216200	Ref	PLATFORM INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND WITHOUT LSS	A
1	0561520	4	Block, Slide	
2	0701024	2	Bolt M10 x 80	
3	0701027	2	Bolt M10 x 100	
4	0761014	4	Bolt M10 x 30	
5	2540045	1	Grommet	
6	3291005	8	Nut M10	
7	3423049	4	Pin, Latch	
8	4812000	10	Washer M10	
9	1001175188	2	Bracket, Stop	
10	1001209252	1	Platform and Extension Assembly - With Outside Extension Rails (See PLATFORM AND EXTENSION ASSEMBLY - WITH OUTSIDE EXTENSION RAILS for Breakdown)	
11	1001209256	1	Latch Assembly - With Outside Extension Rails (See LATCH ASSEMBLY - WITH OUTSIDE EXTENSION RAILS for Breakdown)	

FIGURE 4-3. PLATFORM INSTALLATION - WITH INSIDE EXTENSION RAILS AND WITH LSS

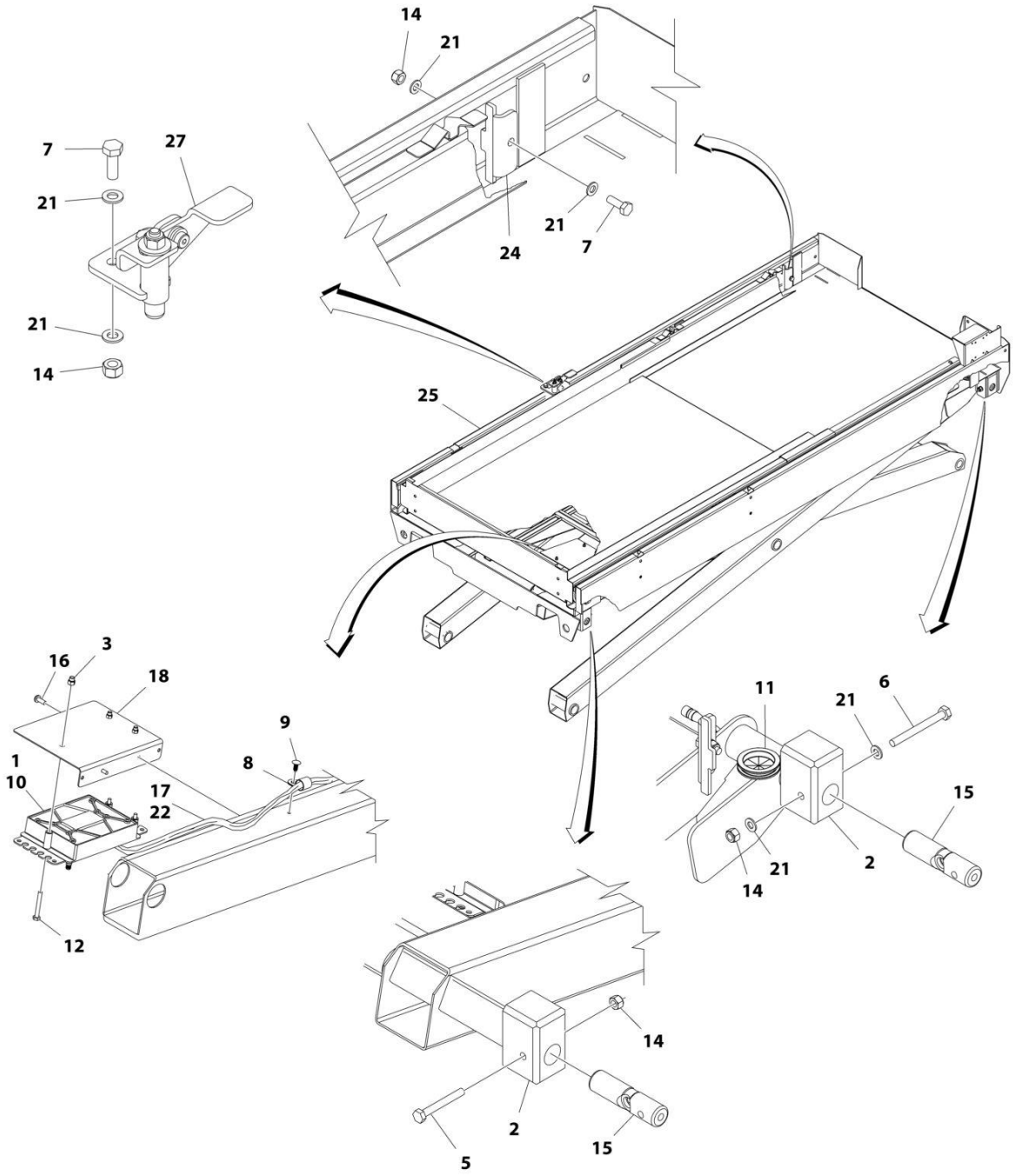


FIGURE 4-3. PLATFORM INSTALLATION - WITH INSIDE EXTENSION RAILS AND WITH LSS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001177181	Ref	PLATFORM INSTALLATION - WITH INSIDE EXTENSION RAILS AND WITH LSS	F
1	0100048	AR	Compound, Sealing	
2	0561520	4	Block, Slide	
3	0700617	3	Bolt M6 x 45	
5	0701024	2	Bolt M10 x 80	
6	0701027	2	Bolt M10 x 100	
7	0761014	4	Bolt M10 x 30	
8	1320318	3	Clamp	
9	1380158	3	Clip, Retainer	
10	1600387	1	Controller, Load Sense	
11	2540045	1	Grommet	
12	3290606	3	Nut M6	
14	3291005	8	Nut M10	
15	3422938	4	Pin, Load Management, 1.25	
16	4191707	2	Screw M6 x 16	
17	4240033	AR	Tie-Strap	
18	4340931	1	Mount, LSS Module	
21	4812000	10	Washer M10	
22	4923228	1	Harness, Load Sense without Fuse (See Separate Breakdown in ELECTRICAL Section)	
22	1001263062	1	Harness, Load Sense with Fuse (See Separate Breakdown in ELECTRICAL Section)	
24	1001175188	2	Bracket, Stop	
25	1001175461	1	Platform and Extension Assembly - With Inside Extension Rails (See PLATFORM AND EXTENSION ASSEMBLY - WITH INSIDE EXTENSION RAILS for Breakdown)	
27	1001182302	1	Latch Assembly - With Inside Extension Rails (See LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS for Breakdown) **(SN 1200025021 through 1200030233, SN B200020297 through B200051184, SN M200000100 through M200021520)**	
27	1001234398	1	Latch Assembly - With Inside Extension Rails (See LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS for Breakdown) **(SN 1200030234 to Present, SN B200051185 to Present, SN M200021521 through M200039292)**	

FIGURE 4-4. PLATFORM INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND WITH LSS

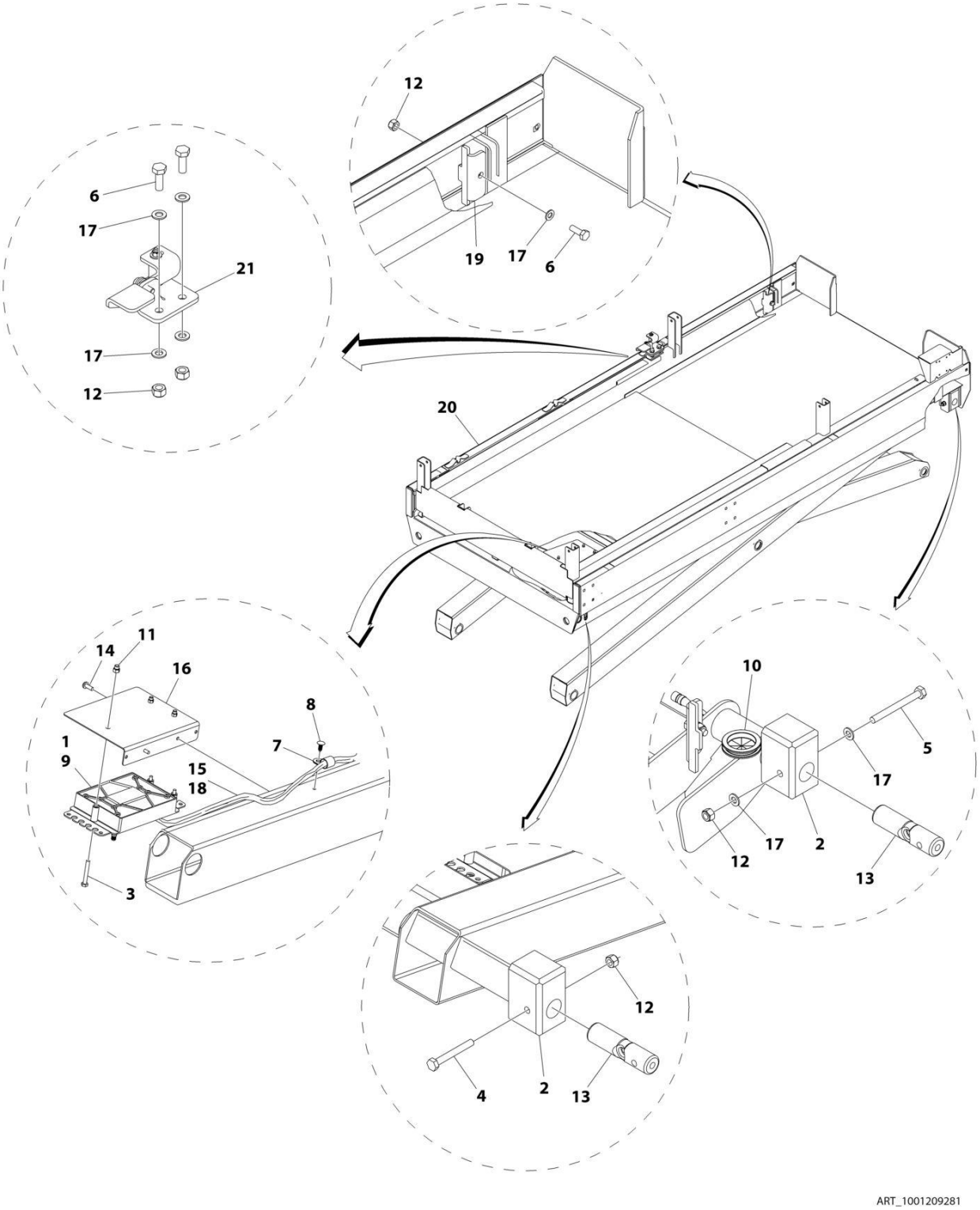


FIGURE 4-4. PLATFORM INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND WITH LSS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209281	Ref	PLATFORM INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND WITH LSS	A
1	0100048	AR	Compound, Sealing	
2	0561520	4	Block, Slide	
3	0700617	3	Bolt M6 x 45	
4	0701024	2	Bolt M10 x 80	
5	0701027	2	Bolt M10 x 100	
6	0761014	4	Bolt M10 x 30	
7	1320318	3	Clamp	
8	1380158	3	Clip, Retainer	
9	1600387	1	Controller, Load Sense	
10	2540045	1	Grommet	
11	3290606	3	Nut M6	
12	3291005	8	Nut M10	
13	3422938	4	Pin, Load Management, 1.25	
14	4191707	2	Screw M6 x 16	
15	4240033	AR	Tie-Strap	
16	4340931	1	Mount, LSS Module	
17	4812000	10	Washer M10	
18	4923228	1	Harness, Load Sense (See Separate Breakdown in ELECTRICAL SECTION)	
19	1001175188	2	Bracket, Stop	
20	1001209252	1	Platform and Extension Assembly - With Outside Extension Rails (See Separate Breakdown in this Section)	
21	1001209256	1	Latch Assembly - With Outside Extension Rails (See Separate Breakdown in this Section)	

FIGURE 4-5. PLATFORM AND EXTENSION ASSEMBLY - WITH INSIDE EXTENSION RAILS

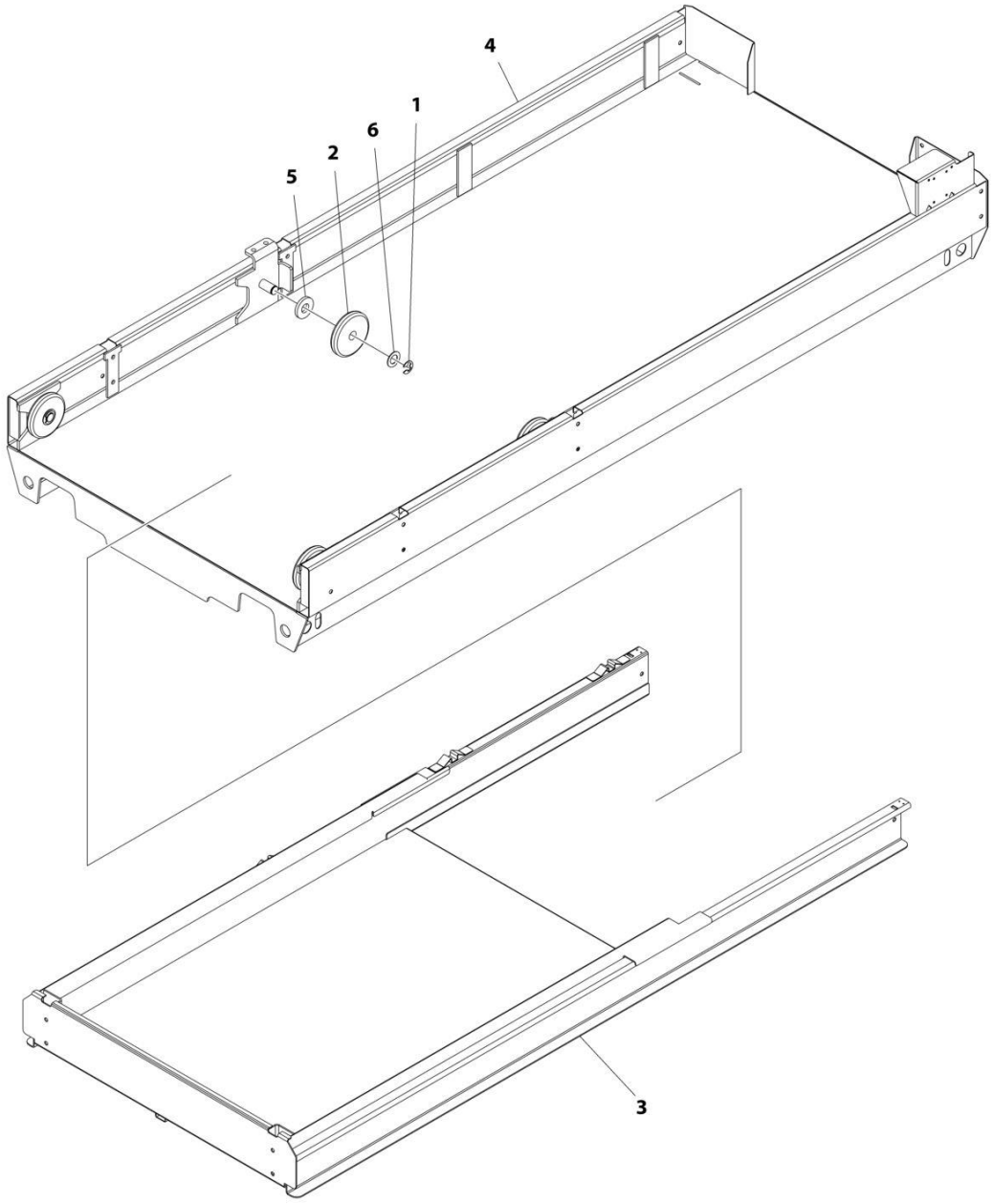


FIGURE 4-5. PLATFORM AND EXTENSION ASSEMBLY - WITH INSIDE EXTENSION RAILS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001175461	Ref	PLATFORM AND EXTENSION ASSEMBLY - WITH INSIDE EXTENSION RAILS	P
1	1001182339	4	Clip	
2	3860118	4	Roller **(SN 0200239382 to Present, SN 1200025021 to Present, SN B200020297 through B200059569, SN M200000100 through M200039292)**	
2	1001243601	4	Roller **(SN B200059570 to Present)**	
3	1001175191	1	Extension, Platform **(SN 0200239382 to Present, SN 1200025021 through 1200030201, SN B200020297 through B200051184, SN M200000100 through M200019953)**	
3	1001232146	1	Extension, Platform **(SN 1200030202 to Present, SN B200051185 to Present, SN M200019954 through M200039292)**	
4	1001175192	1	Platform	
5	1001182062	4	Tube, Spacer **(SN 0200239382 to Present, SN 1200025021 to Present, SN B200020297 through B200059569, SN M200000100 through M200039292)**	
6	4740446	4	Washer, Thrust	

FIGURE 4-6. PLATFORM AND EXTENSION ASSEMBLY - WITH OUTSIDE EXTENSION RAILS

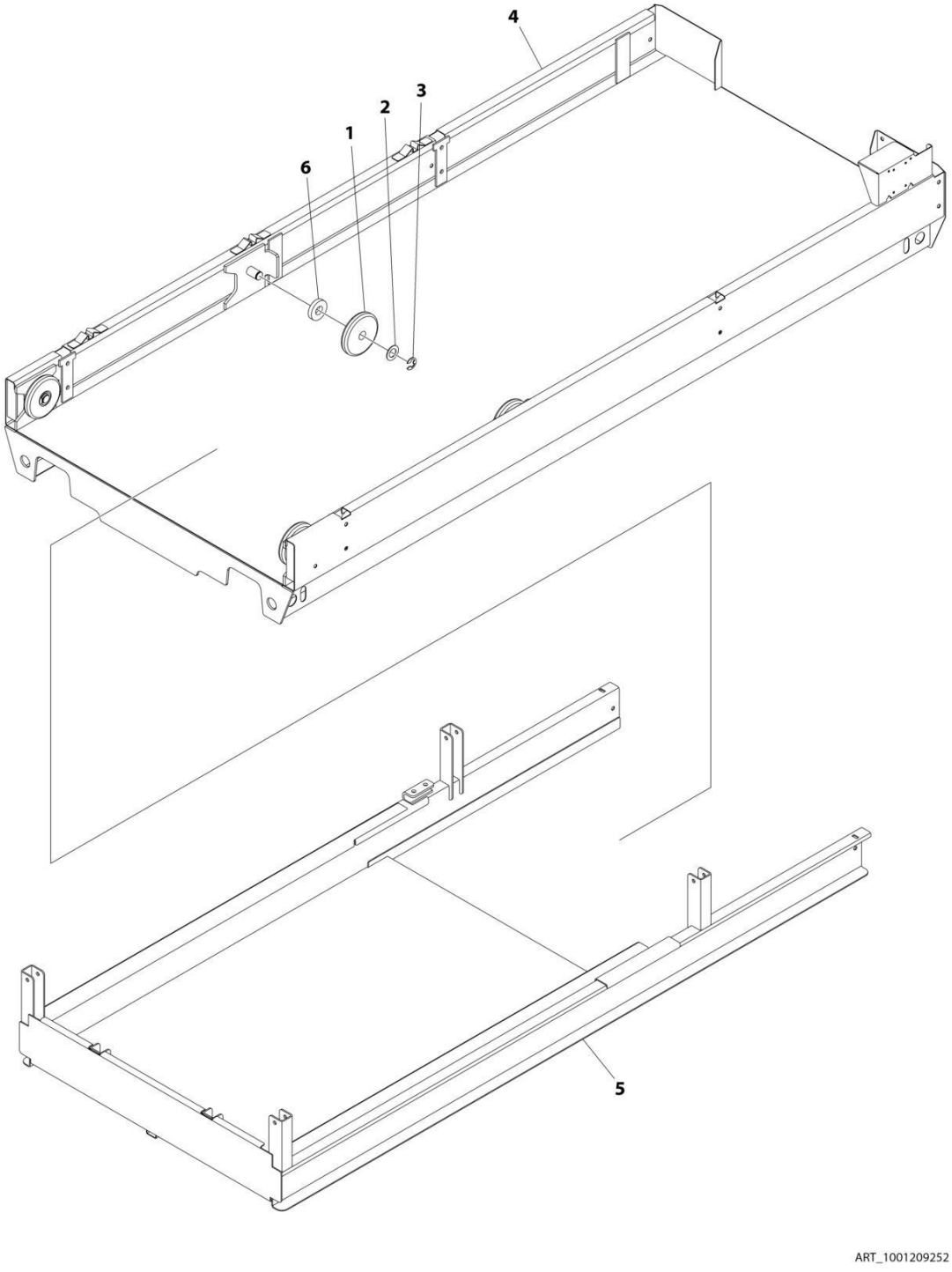


FIGURE 4-6. PLATFORM AND EXTENSION ASSEMBLY - WITH OUTSIDE EXTENSION RAILS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209252	Ref	PLATFORM AND EXTENSION ASSEMBLY - WITH OUTSIDE EXTENSION RAILS	D
1	3860118	4	Roller **(SN 0200239382 to Present, SN 1200025021 to Present, SN B200020297 through B200059569, SN M200000100 through M200039292)**	
1	1001243601	4	Roller **(SN B200059570 to Present)**	
2	4740446	4	Washer, Thrust	
3	1001182339	4	Clip	
4	1001209257	1	Platform	
5	1001209262	1	Extension, Platform	
6	1001211892	4	Tube, Spacer **(SN 0200239382 to Present, SN 1200025021 to Present, SN B200020297 through B200059569, SN M200000100 through M200039292)**	

FIGURE 4-7. LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS (SN 1200025021 through 1200030233, SN B200020297 through B200051184, SN M200000100 through M200021520)

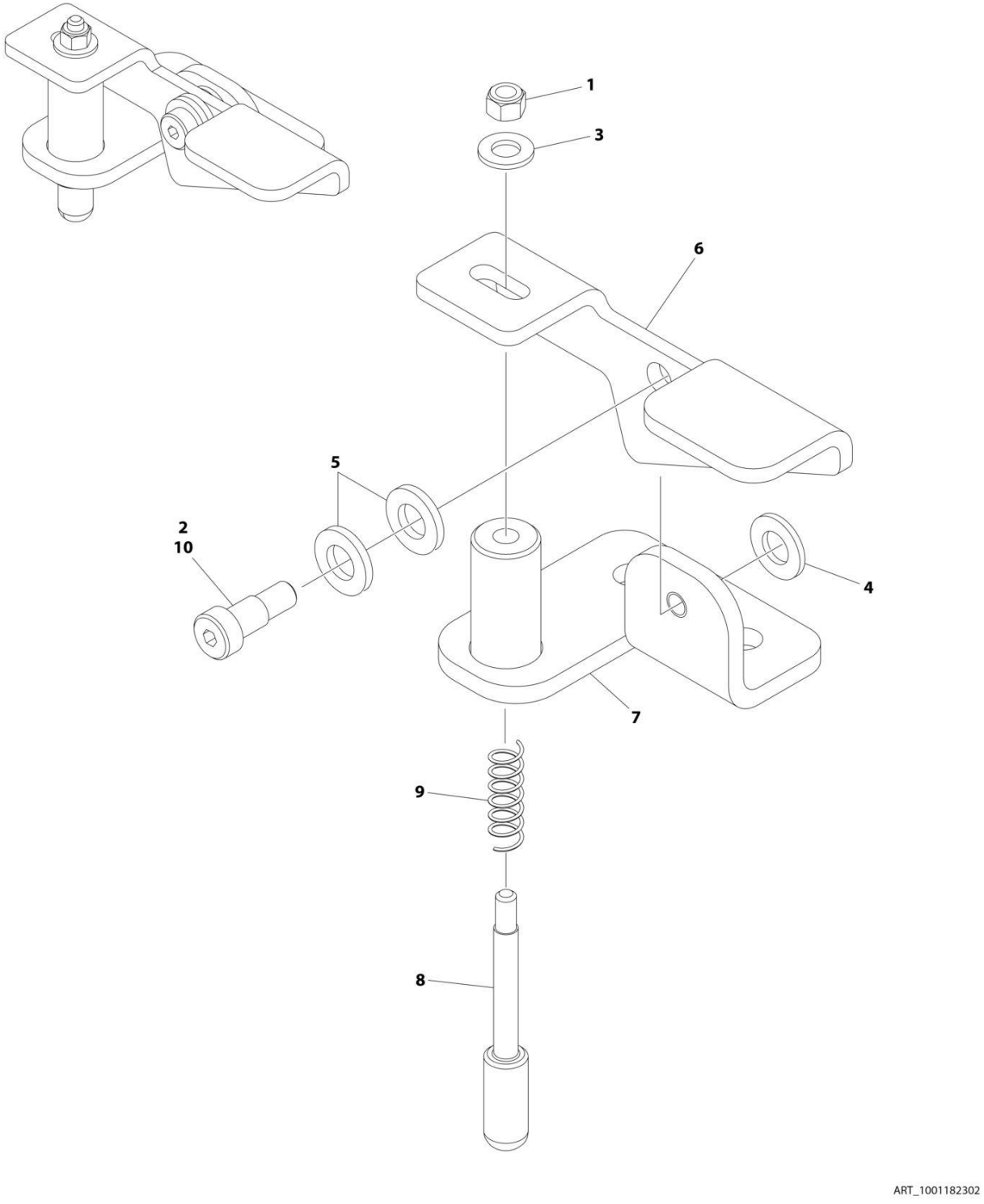


FIGURE 4-7. LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS (SN 1200025021 through 1200030233, SN B200020297 through B200051184, SN M200000100 through M200021520)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001182302	Ref	LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS	G
1	3290605	1	Nut M6	
2	3900190	1	Screw	
3	4811900	1	Washer M8	
4	4812000	1	Washer M10	
5	5241000	2	Washer M10	
6	1001178323	1	Latch	
7	1001182304	1	Bracket	
8	1001182305	1	Rod, Threaded	
9	1001182338	1	Spring	
10	0100011	AR	Compound, Locking	

FIGURE 4-8. LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS (SN 1200030234 to Present, SN B200051185 to Present, SN M200021521 to Present)

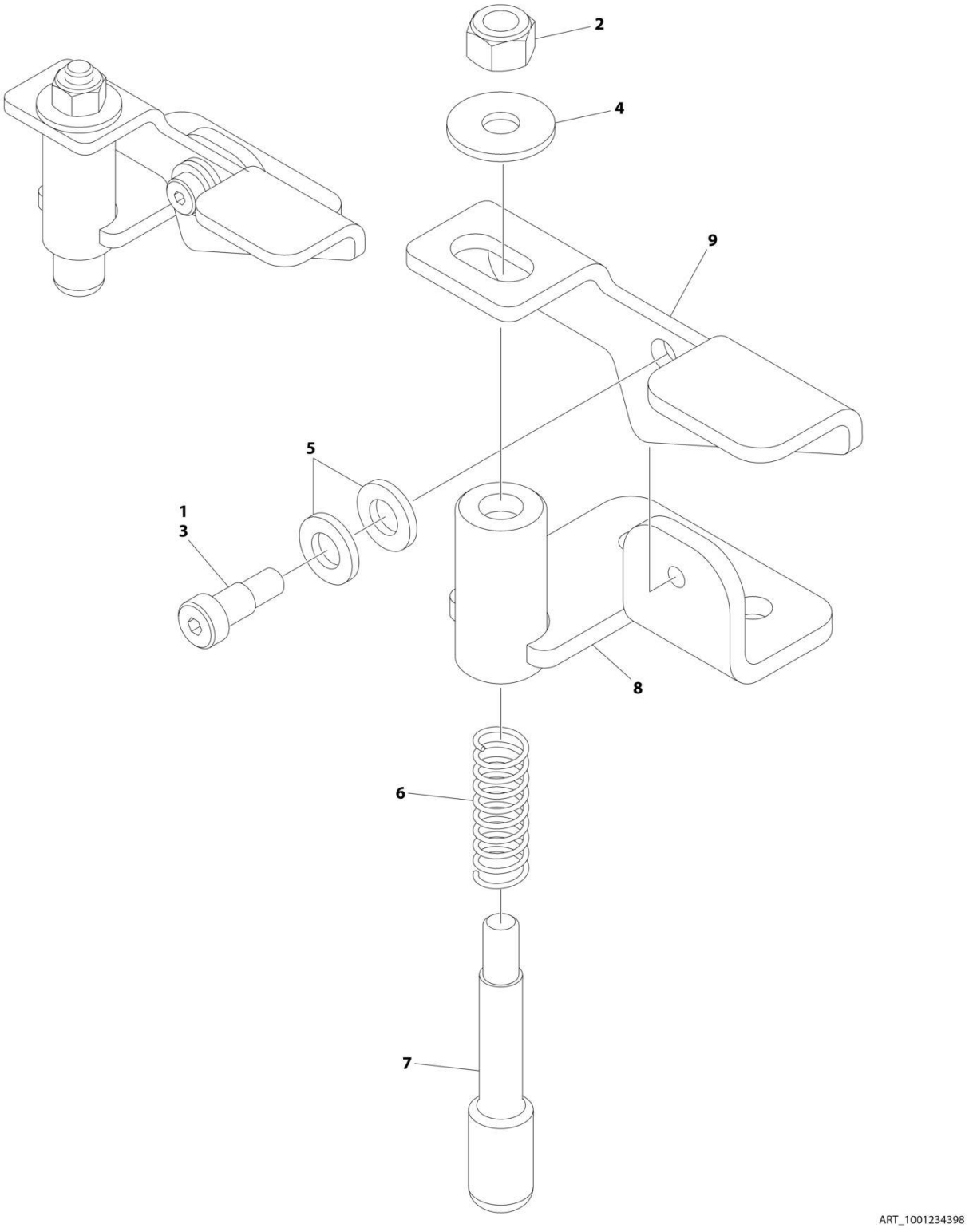


FIGURE 4-8. LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS (SN 1200030234 to Present, SN B200051185 to Present, SN M200021521 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001234398	Ref	LATCH ASSEMBLY - WITH INSIDE EXTENSION RAILS	B
1	0100011	AR	Compound, Locking	
2	3291005	1	Nut M10	
3	3900190	1	Screw	
4	4812002	1	Washer M10	
5	5241000	2	Washer M10	
6	1001221475	1	Spring	
7	1001221476	1	Rod, Threaded	
8	1001234399	1	Bracket	
9	1001234401	1	Latch	

FIGURE 4-9. LATCH ASSEMBLY - WITH OUTSIDE EXTENSION RAILS

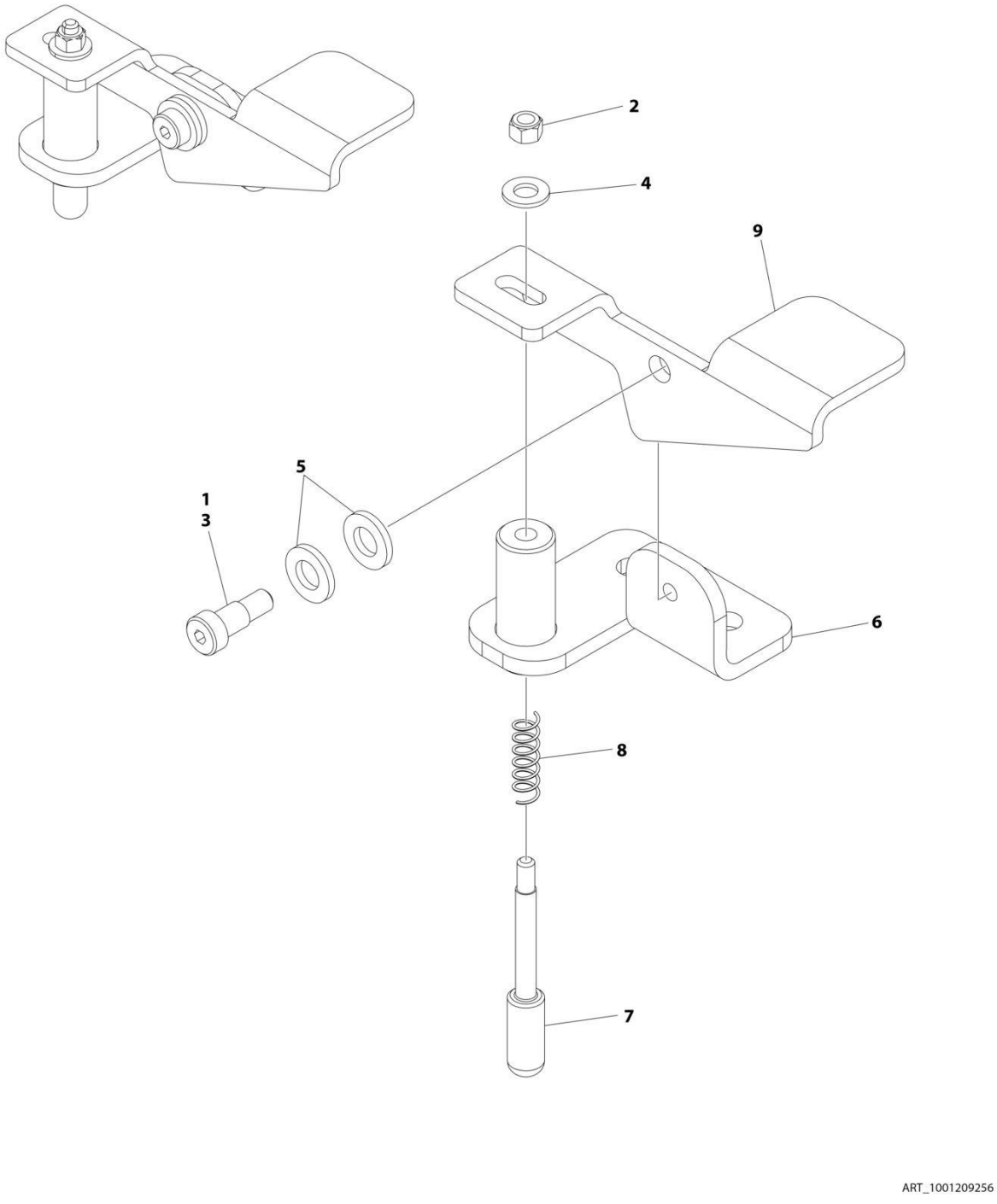


FIGURE 4-9. LATCH ASSEMBLY - WITH OUTSIDE EXTENSION RAILS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209256	Ref	LATCH ASSEMBLY - WITH OUTSIDE EXTENSION RAILS	E
1	0100011	AR	Compound, Locking	
2	3290605	1	Nut M6	
2	3291005	1	Nut M10	
3	3900190	1	Screw	
4	4811900	1	Washer M8	
4	4812000	1	Washer M10	
4	4812002	1	Washer M10	
5	5241000	2	Washer M10	
6	1001182304	1	Bracket **(SN 0200239382 through 0200266381, SN 1200025021 through 1200030068, SN B200020297 through B300049127, SN M200000100 through M200021508)**	
6	1001234399	1	Bracket **(SN 0200266382 to Present, SN 1200030069 to Present, SN B200049128 to Present, SN M200021509 through M200039292)**	
7	1001182305	1	Rod, Threaded **(SN 0200239382 through 0200266381, SN 1200025021 through 1200030068, SN B200020297 through B300049127, SN M200000100 through M200021508)**	
7	1001221476	1	Rod, Threaded **(SN 0200266382 to Present, SN 1200030069 to Present, SN B200049128 to Present, SN M200021509 through M200039292)**	
8	1001182338	1	Spring **(SN 0200239382 through 0200266381, SN 1200025021 through 1200030068, SN B200020297 through B300049127, SN M200000100 through M200021508)**	
8	1001221475	1	Spring **(SN 0200266382 to Present, SN 1200030069 to Present, SN B200049128 to Present, SN M200021509 through M200039292)**	
9	1001209280	1	Latch	

FIGURE 4-10. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS AND CHAIN GATE

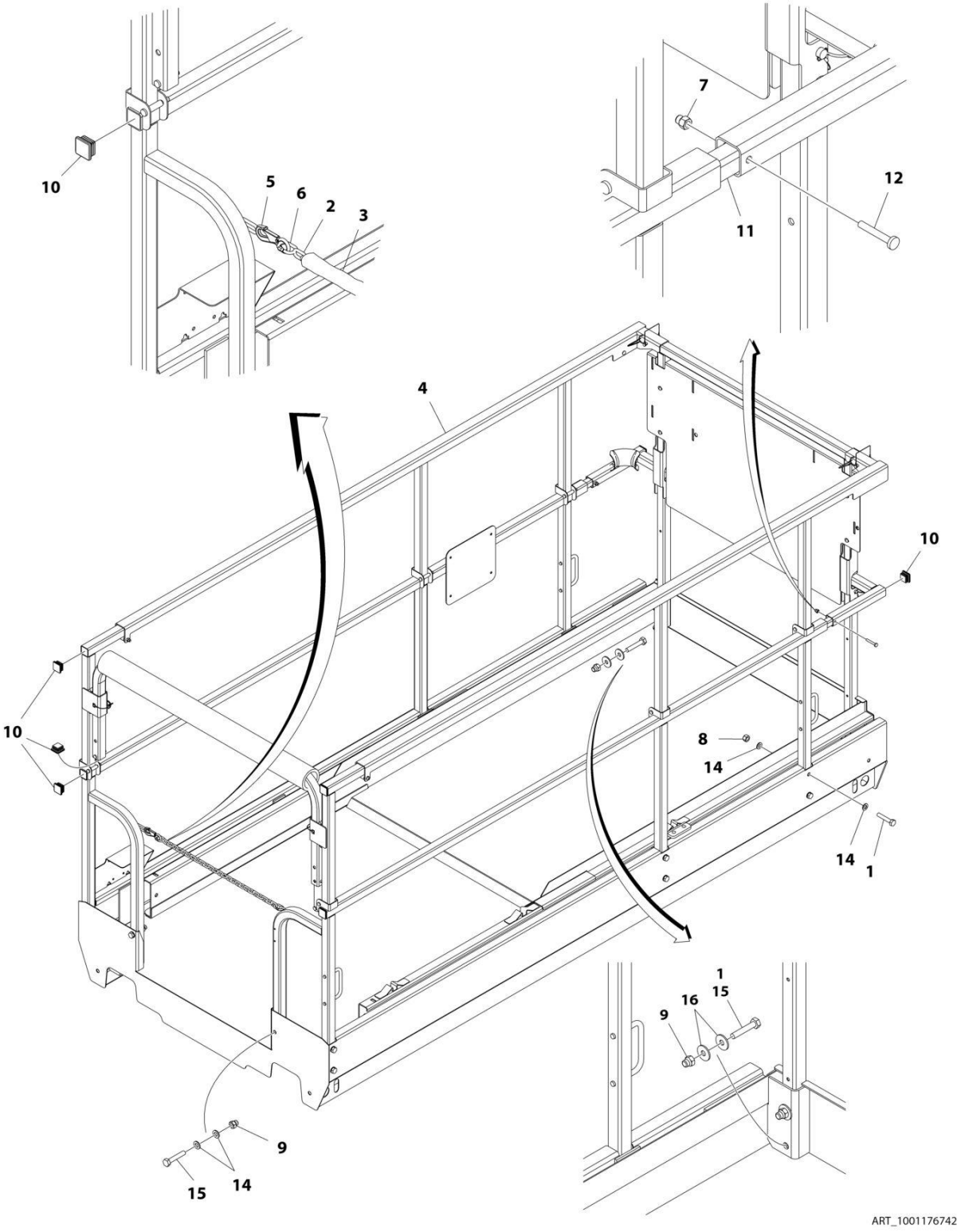


FIGURE 4-10. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS AND CHAIN GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176742	Ref	RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS AND CHAIN GATE	F
1	0701019	AR	Bolt M10 x 55	
2	1260136	20 in/.5m	Chain	
3	2820097	19 in/.5m	Cover, Chain	
4	1001179838	1	Rail Kit - With Inside Extension Rails and Chain Gate (See RAIL KIT - WITH INSIDE EXTENSION RAILS AND CHAIN GATE for Breakdown)	
5	2940064	1	Latch, Snap	
6	3010088	2	Link	
7	3290606	2	Nut M6	
8	3291005	AR	Nut M10	
9	3300477	6	Nut	
9	3291006	6	Nut M10	
10	3520072	6	Plug	
11	3841716	2	Rod, Fiberglass	
12	4010616	2	Screw M6 x 40	
14	4812000	AR	Washer M10	
15	0701019	6	Bolt M10 x 55	
15	0701018	6	Bolt M10 x 50	
16	4812000	8	Washer M10	
16	4812002	8	Washer M10	

FIGURE 4-11. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE

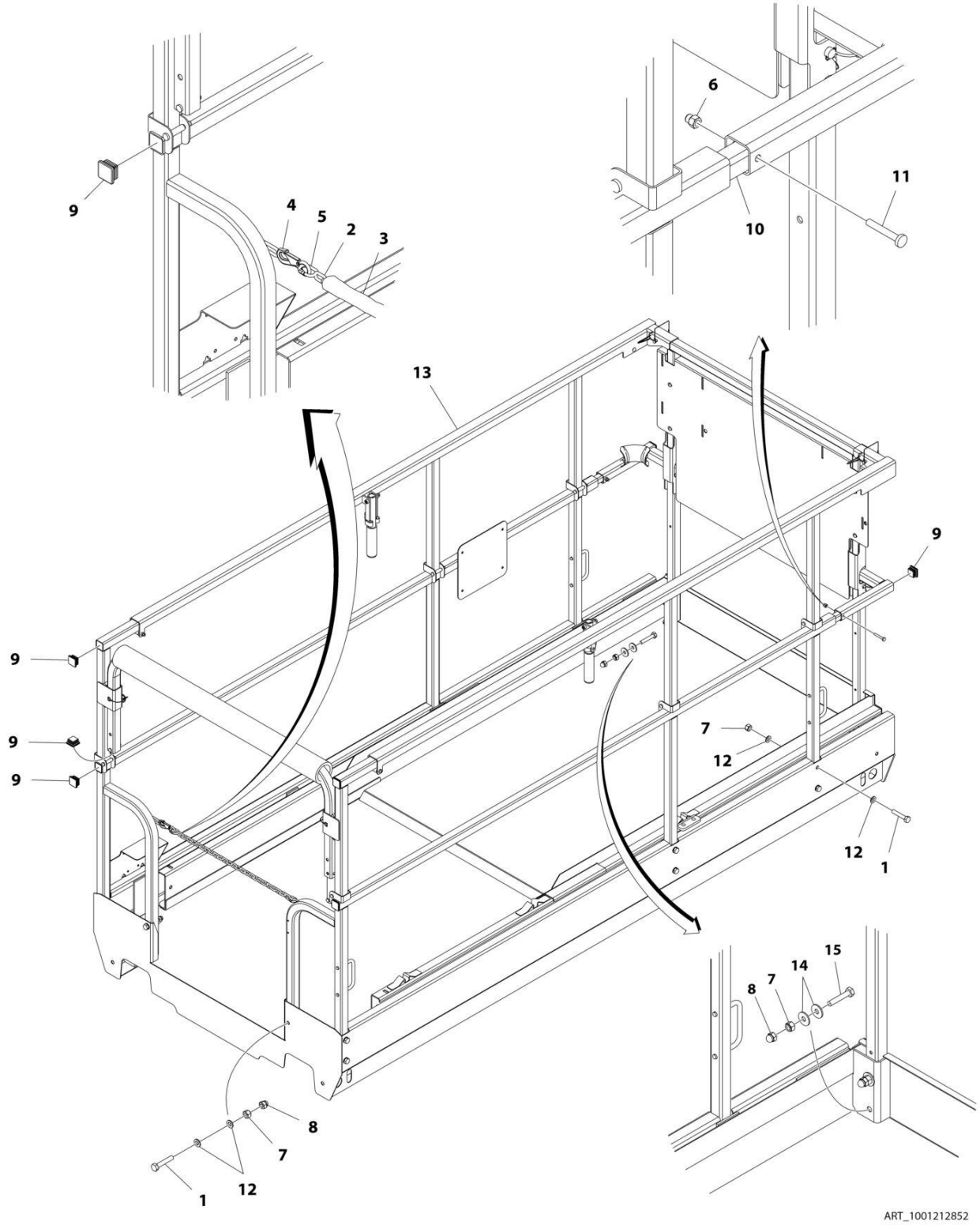


FIGURE 4-11. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212852	Ref	RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE	B
1	0701019	AR	Bolt M10 x 55	
2	1260136	20 in/ .5m	Chain	
3	2820097	19 in/ .5m	Cover, Chain	
4	2940064	1	Latch, Snap	
5	3010088	2	Link	
6	3290606	2	Nut M6	
7	3291005	18	Nut M10	
8	3300477	6	Nut	
9	3520072	6	Plug	
10	3841716	2	Rod, Fiberglass	
11	4010616	2	Screw M6 x 40	
12	4812000	AR	Washer M10	
13	1001212877	1	Rail Kit - With Inside Extension Rails, Handle and Chain Gate (See RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE for Breakdown)	
14	4812000	8	Washer M10	
14	4812002	8	Washer M10	
15	0701019	4	Bolt M10 x 55	
15	0701021	4	Bolt M10 x 65	

FIGURE 4-12. RAIL KIT - WITH INSIDE EXTENSION RAILS AND CHAIN GATE

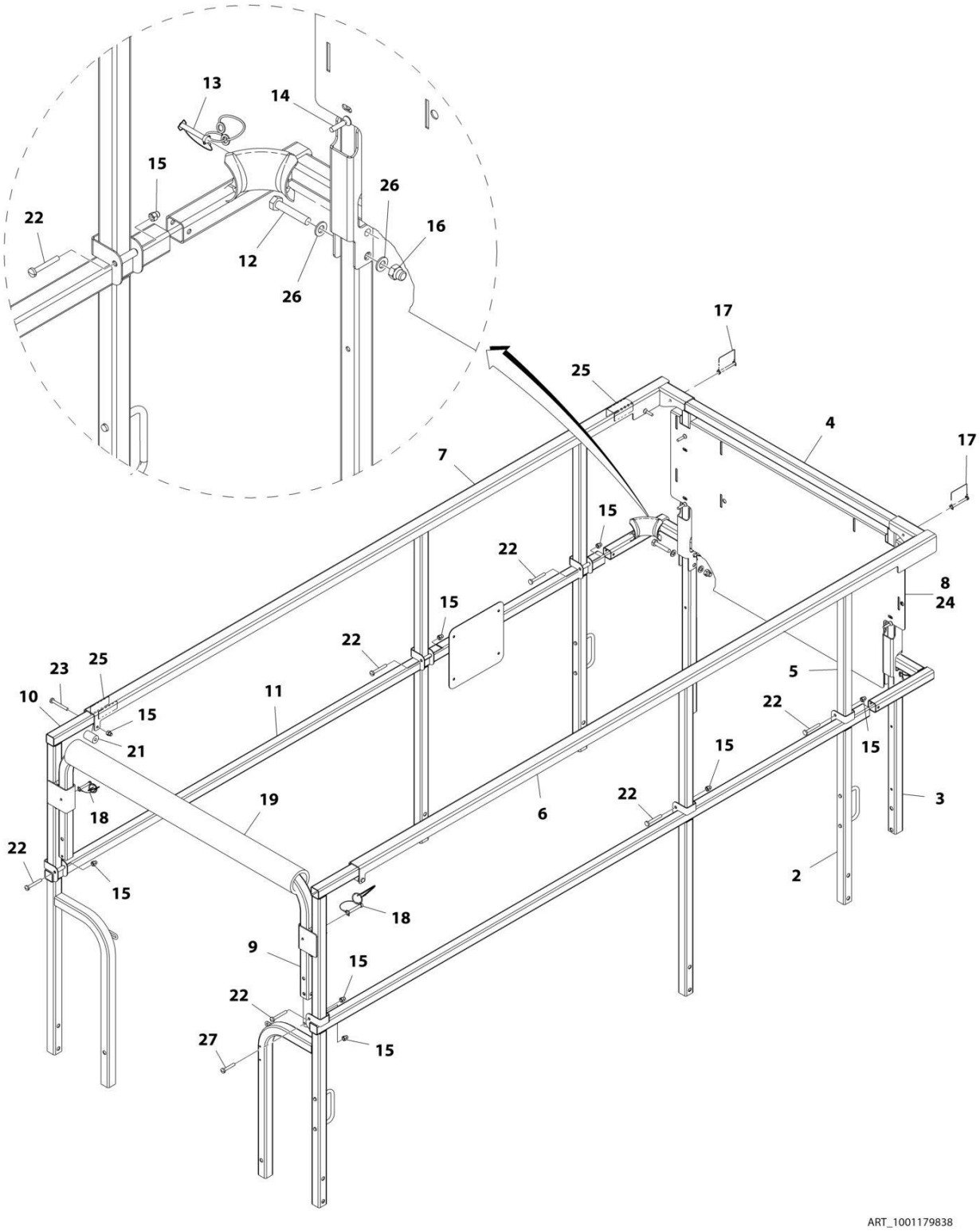


FIGURE 4-12. RAIL KIT - WITH INSIDE EXTENSION RAILS AND CHAIN GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179838	Ref	RAIL KIT - WITH INSIDE EXTENSION RAILS AND CHAIN GATE	H
1	1001179441	1	Rail Kit Less Hardware (Not Shown - Includes Items 2-11)	H
2	1001179400	1	Rail, Bottom Rear RH	
3	1001179402	1	Rail, Bottom Front	
4	1001179409	1	Rail, Top Front	
5	1001179410	1	Rail, Top RH	
6	1001179411	1	Rail, Top RH Slide	
7	1001179414	1	Rail, Top LH Slide	
8	1001179415	1	Plate, Placard	
9	1001179417	1	Tube, Drywall Gate	
10	1001179437	1	Rail, Top LH	
11	1001179442	1	Rail, Bottom Rear LH	
12	0701019	2	Bolt M10 x 55	
13	1001187585	2	Lanyard	
14	2080040	8	Fastener, Huck	
15	3290606	9	Nut M6	
16	3291006	2	Nut M10 Grade 8	
17	1001187587	2	Pin, Snap	
18	3423278	2	Pin, Snap	
19	3340612	3 ft /91cm	Pad, Rail	
21	3860111	2	Roller	
22	4010617	6	Screw M6 x 45	
22	4010618	6	Screw M6 x 50	
23	4010618	2	Screw M6 x 50	
24	4420037	1	Tape, Insulation	
25	1001189762	AR	Tape	
26	4812000	4	Washer M10	
27	4010616	1	Screw M6 x 40	

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FIGURE 4-13. RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE

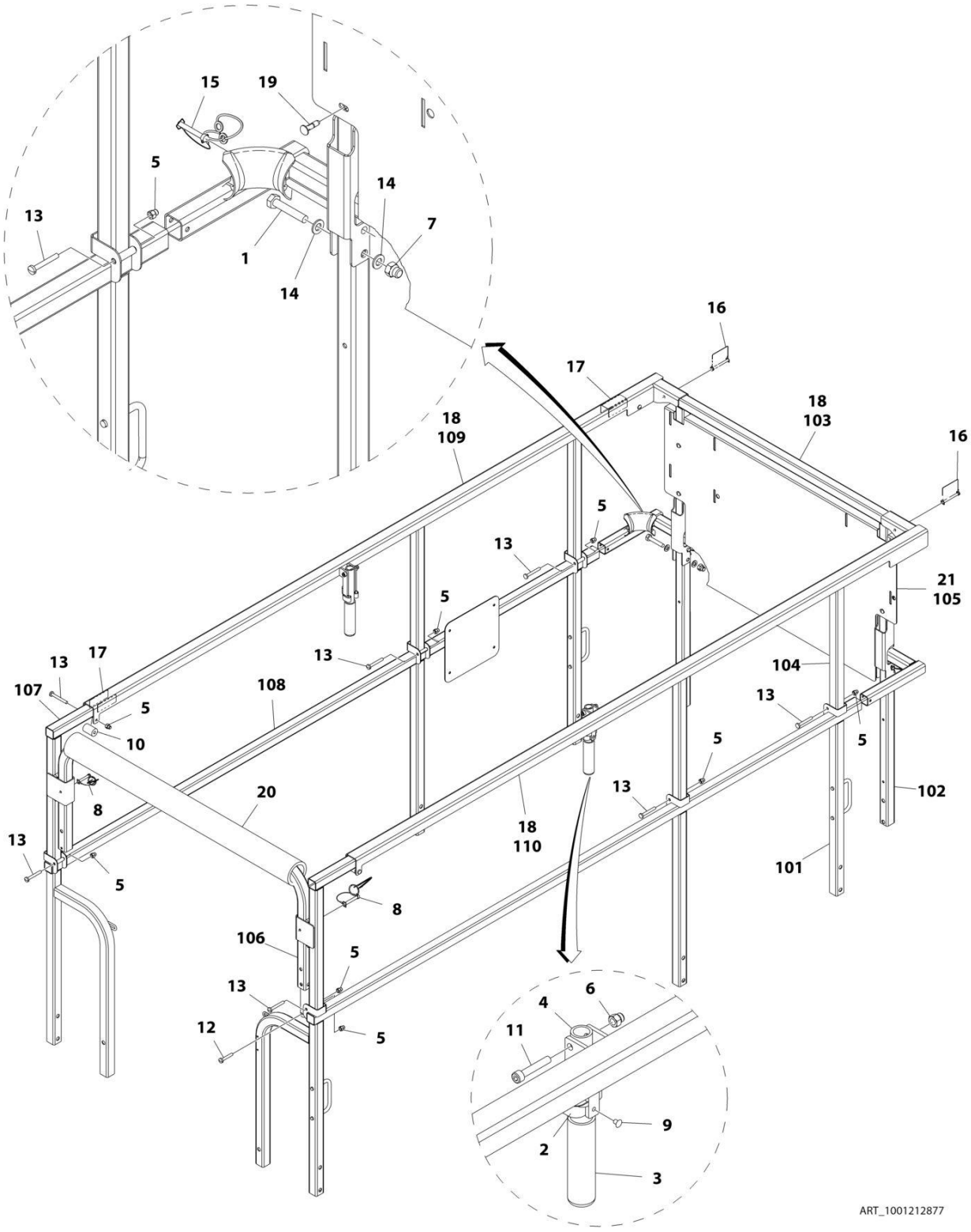


FIGURE 4-13. RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212877	Ref	RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND CHAIN GATE	A
1	0701019	2	Bolt M10 x 55	
2	1380132	2	Clip, Gripper	
3	2560088	2	Handle	
4	2560190	2	Handle, Platform	
5	3290606	9	Nut M6	
6	3290806	2	Nut M8	
7	3291006	2	Nut M10 Grade 8	
8	3423278	2	Pin, Snap	
9	3820019	2	Rivet	
10	3860111	2	Roller	
11	3900345	2	Screw	
12	4010616	1	Screw M6 x 40	
13	4010618	8	Screw M6 x 50	
14	4812000	4	Washer M10	
15	1001187585	2	Pin, Snap	
16	1001187587	2	Pin, Snap	
17	1001189762	AR	Tape	
18	1001212874	1	Rail Kit (See Items 101-110 for Breakdown)	
19	2080040	8	Fastener, Huck	
20	3340612	3 ft/91cm	Pad, Rail	
21	4420037	1	Tape, Insulation	
	1001212874	Ref	RAIL KIT	C
101	1001179400	1	Rail, Bottom Rear RH	
102	1001179402	1	Rail, Bottom Front	
103	1001179409	1	Rail, Top Front	
104	1001179410	1	Rail, Top RH	
105	1001179415	1	Plate, Placard	
106	1001179417	1	Tube, Drywall Gate	
107	1001179437	1	Rail, Top LH	
108	1001179442	1	Rail, Bottom Rear LH	
109	1001212875	1	Rail, Top LH Slide	
110	1001212876	1	Rail, Top RH Slide	

FIGURE 4-14. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS AND SELF CLOSING GATE

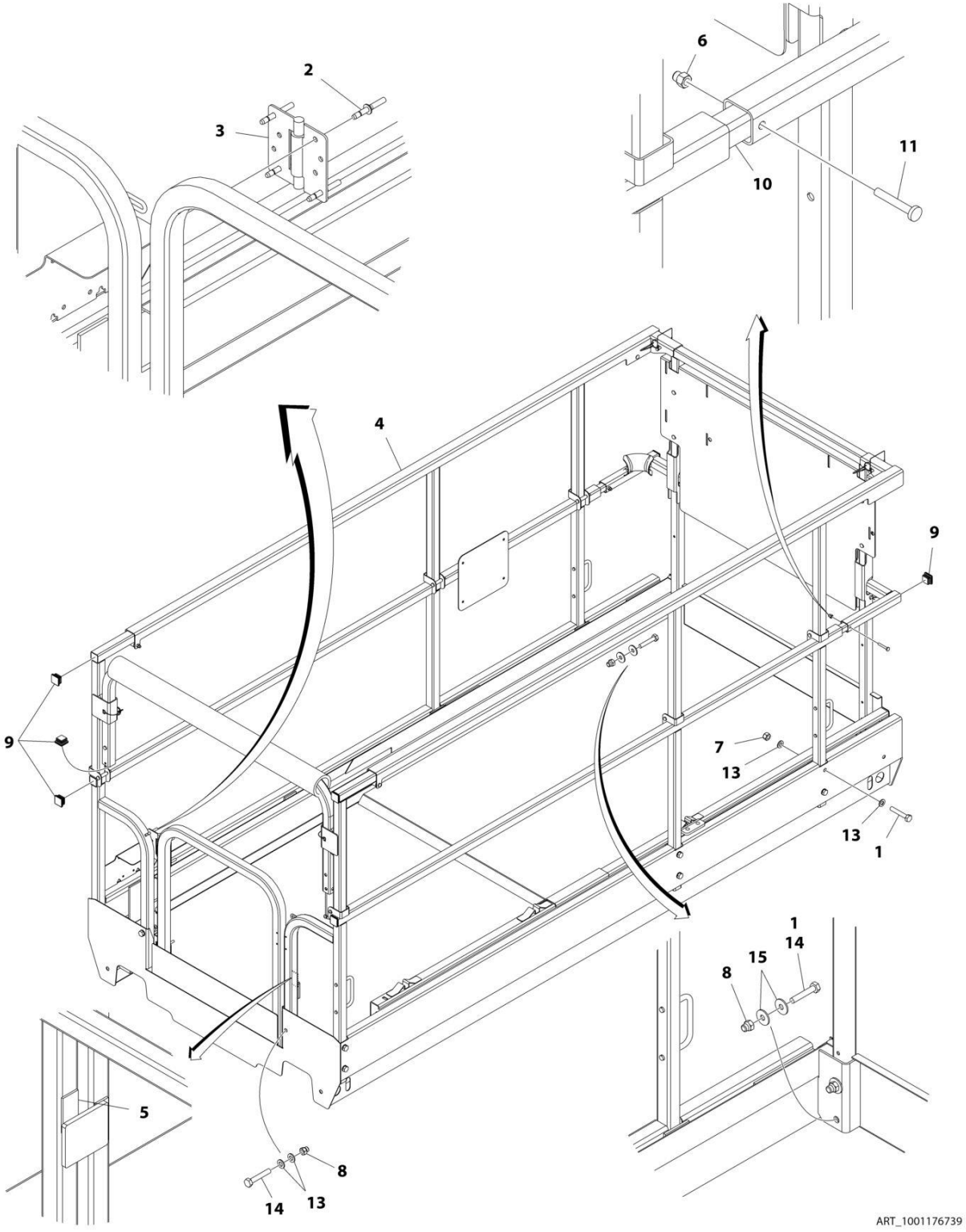


FIGURE 4-14. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS AND SELF CLOSING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176739	Ref	RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS AND SELF CLOSING GATE	F
1	0701019	AR	Bolt M10 x 55	
2	2080040	8	Fastener, Huck	
3	2600281	2	Hinge	
4	1001179420	1	Rail Kit - With Inside Extension Rails and Self Closing Gate (See Separate Breakdown in this Section)	
5	3080007	1	Magnet	
6	3290606	2	Nut M6	
7	3291005	AR	Nut M10	
8	3300477	6	Nut	
8	3291006	6	Nut M10	
9	3520072	6	Plug	
10	3841716	2	Rod, Fiberglass	
11	4010616	2	Screw M6 x 40	
13	4812000	AR	Washer M10	
14	0701019	6	Bolt M10 x 55	
14	0701018	6	Bolt M10 x 50	
15	4812000	8	Washer M10	
15	4812002	8	Washer M10	

FIGURE 4-15. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS, HANDLE AND SELF CLOSING GATE

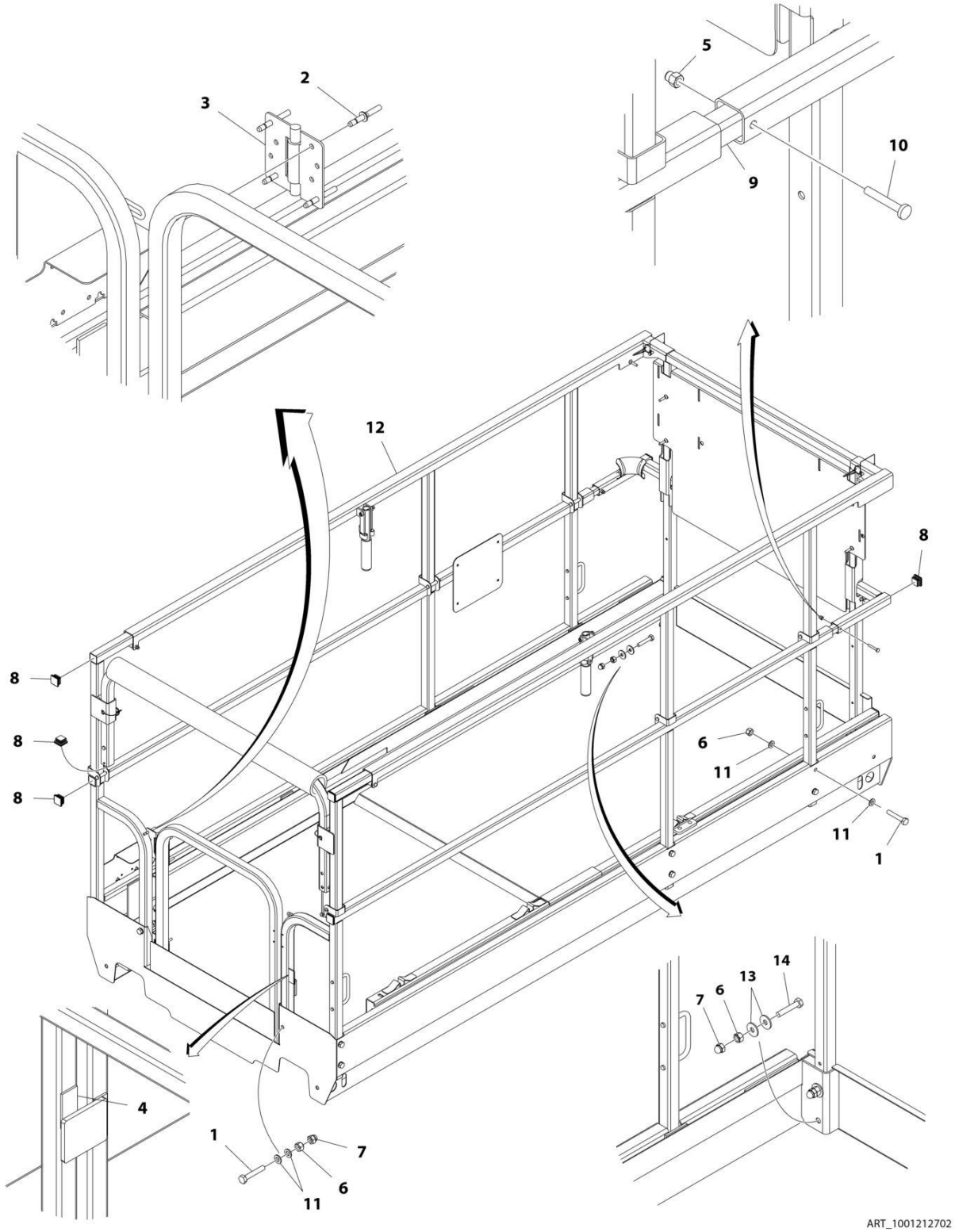


FIGURE 4-15. RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS, HANDLE AND SELF CLOSING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212702	Ref	RAILS INSTALLATION - WITH INSIDE EXTENSION RAILS, HANDLE AND SELF CLOSING GATE	B
1	0701019	AR	Bolt M10 x 55	
2	2080040	8	Fastener, Huck	
3	2600281	2	Hinge	
4	3080007	1	Magnet	
5	3290606	2	Nut M6	
6	3291005	18	Nut M10	
7	3300477	6	Nut	
8	3520072	6	Plug	
9	3841716	2	Rod, Fiberglass	
10	4010616	2	Screw M6 x 40	
11	4812000	AR	Washer M10	
12	1001212873	1	Rail Kit - With Inside Extension Rails, Handle and Self Closing Gate (See Separate Breakdown in this Section)	
13	4812000	8	Washer M10	
13	4812002	8	Washer M10	
14	0701019	4	Bolt M10 x 55	
14	0701021	4	Bolt M10 x 65	

FIGURE 4-16. RAILS INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE

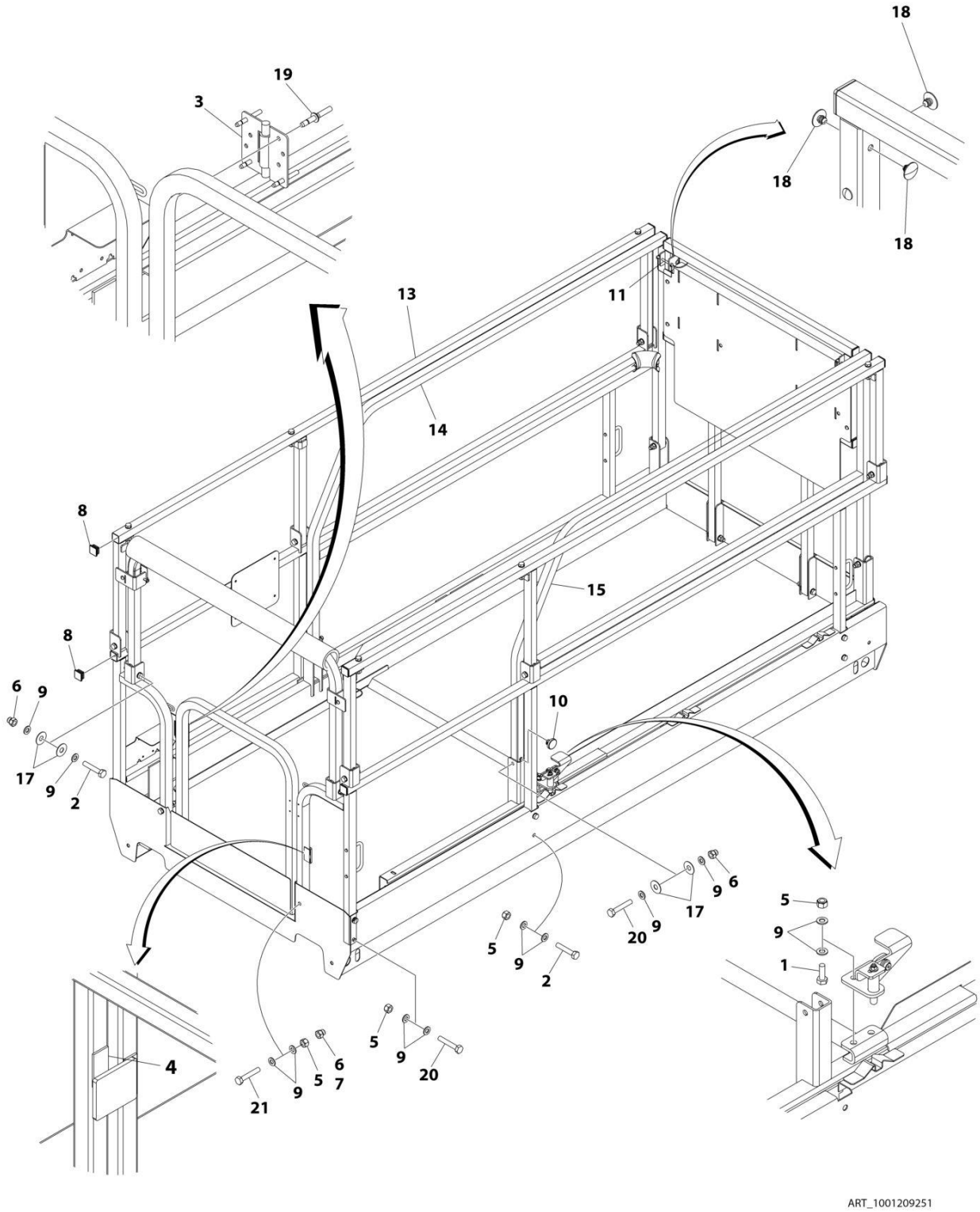


FIGURE 4-16. RAILS INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209251	Ref	RAILS INSTALLATION - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE	D
1	0701014	4	Bolt M10 x 30	
2	0701019	4	Bolt M10 x 55	
3	2600281	2	Hinge	
4	3080007	1	Magnet	
5	3291005	AR	Nut M10	
6	3291006	AR	Nut M10	
7	3300477	2	Nut	
7	3291006	2	Nut M10	
8	3520072	14	Plug	
9	4812000	44	Washer M10	
10	1001137675	4	Bumper	
11	1001187587	2	Pin, Snap	
13	1001209253	1	Rail Kit - With Outside Extension Rails and Self Closing Gate (See RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE for Breakdown) **(SN 0200239382 through 0200264570, SN 1200025023 through 1200030201, SN B200020297 through B200041196)**	
13	1001218388	1	Rail Kit - With Outside Extension Rails and Self Closing Gate (See RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE for Breakdown) **(SN 0200264571 to Present, SN 1200030202 to Present, SN B200041197 to Present)**	
14	1001209254	1	Rail, Left	
15	1001209255	1	Rail, Right	
17	1001211895	28	Plate, Washer	
18	1001211896	12	Bumper	
19	2080040	10	Fastener, Huck	
20	0701020	AR	Bolt M10 x 60	
21	0701020	2	Bolt M10 x 60	
21	0701018	2	Bolt M10 x 50	

FIGURE 4-17. RAIL KIT - WITH INSIDE EXTENSION RAILS AND SELF CLOSING GATE

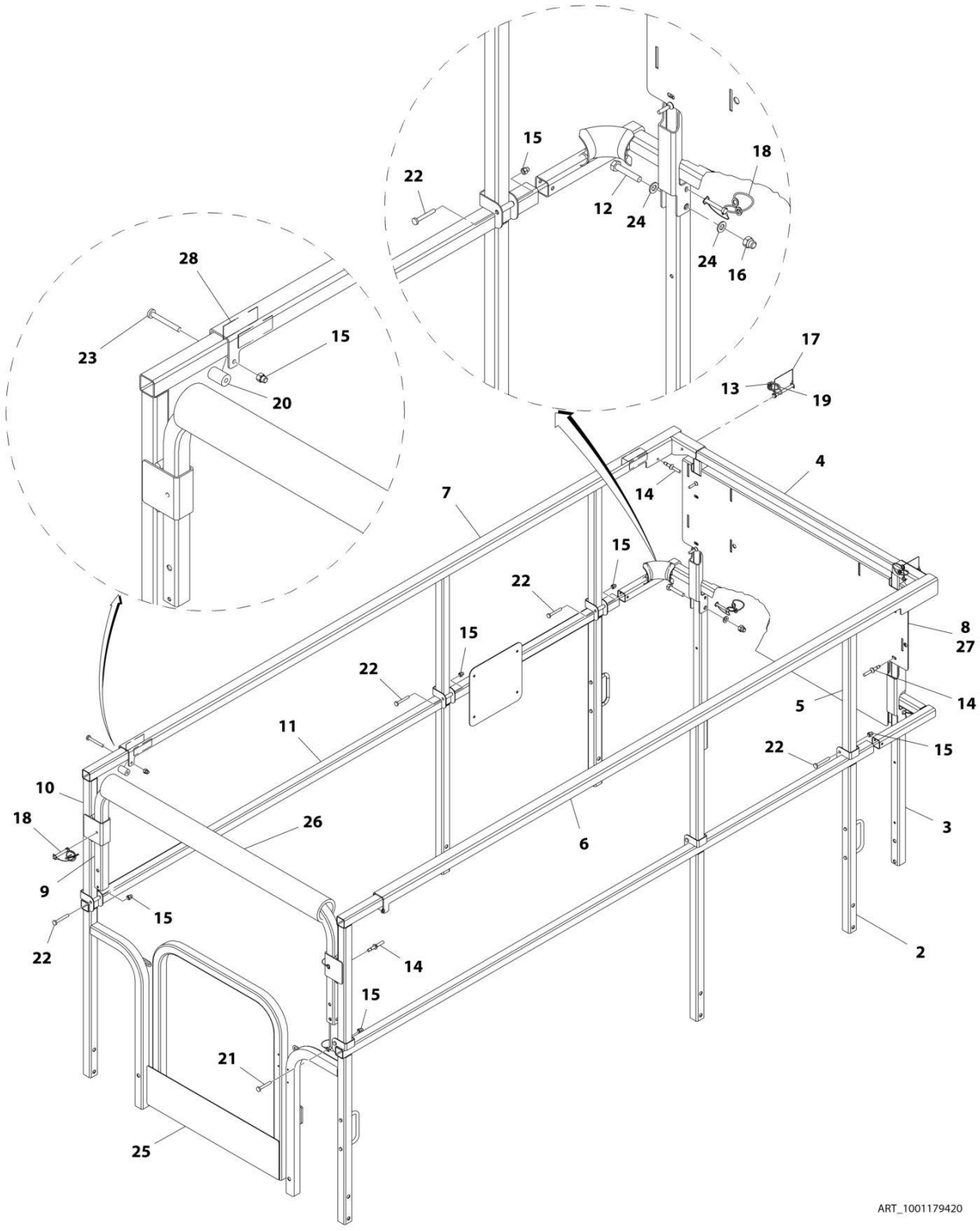


FIGURE 4-17. RAIL KIT - WITH INSIDE EXTENSION RAILS AND SELF CLOSING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001179420	Ref	RAIL KIT - WITH INSIDE EXTENSION RAILS AND SELF CLOSING GATE	H
1	1001179441	1	Rail Kit Less Hardware (Not Shown - Includes Items 2-11)	H
2	1001179400	1	Rail, Right Bottom	
3	1001179402	1	Rail, Mid Bottom	
4	1001179409	1	Rail, Mid Top	
5	1001179410	1	Rail, Right Top	
6	1001179411	1	Rail, Top RH	
7	1001179414	1	Rail, Top LH	
8	1001179415	1	Plate, Placard	
9	1001179417	1	Tube, Drywall Gate	
10	1001179437	1	Rail, Left Top	
11	1001179442	1	Rail, Left Bottom	
12	0701019	2	Bolt M10 x 55	
13	1001187585	2	Lanyard	
14	2080040	8	Fastener, Huck	
15	3290606	9	Nut M6	
16	3291006	2	Nut M10 Grade 8	
17	1001187587	2	Pin, Snap	
18	3423278	2	Pin, Snap	
19	3760170	2	Ring	
20	3860111	2	Roller	
21	4010616	1	Screw M6 x 40	
22	4010617	6	Screw M6 x 45	
22	4010618	6	Screw M6 x 50	
23	4010618	2	Screw M6 x 50	
24	4812000	4	Washer M10	
25	4846723	1	Gate	
26	3340612	36 in /91cm	Pad, Black Nylon Cover	
27	4420037	1	Tape, Insulation	
28	1001189762	AR	Tape	

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FIGURE 4-18. RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND SELF CLOSING GATE

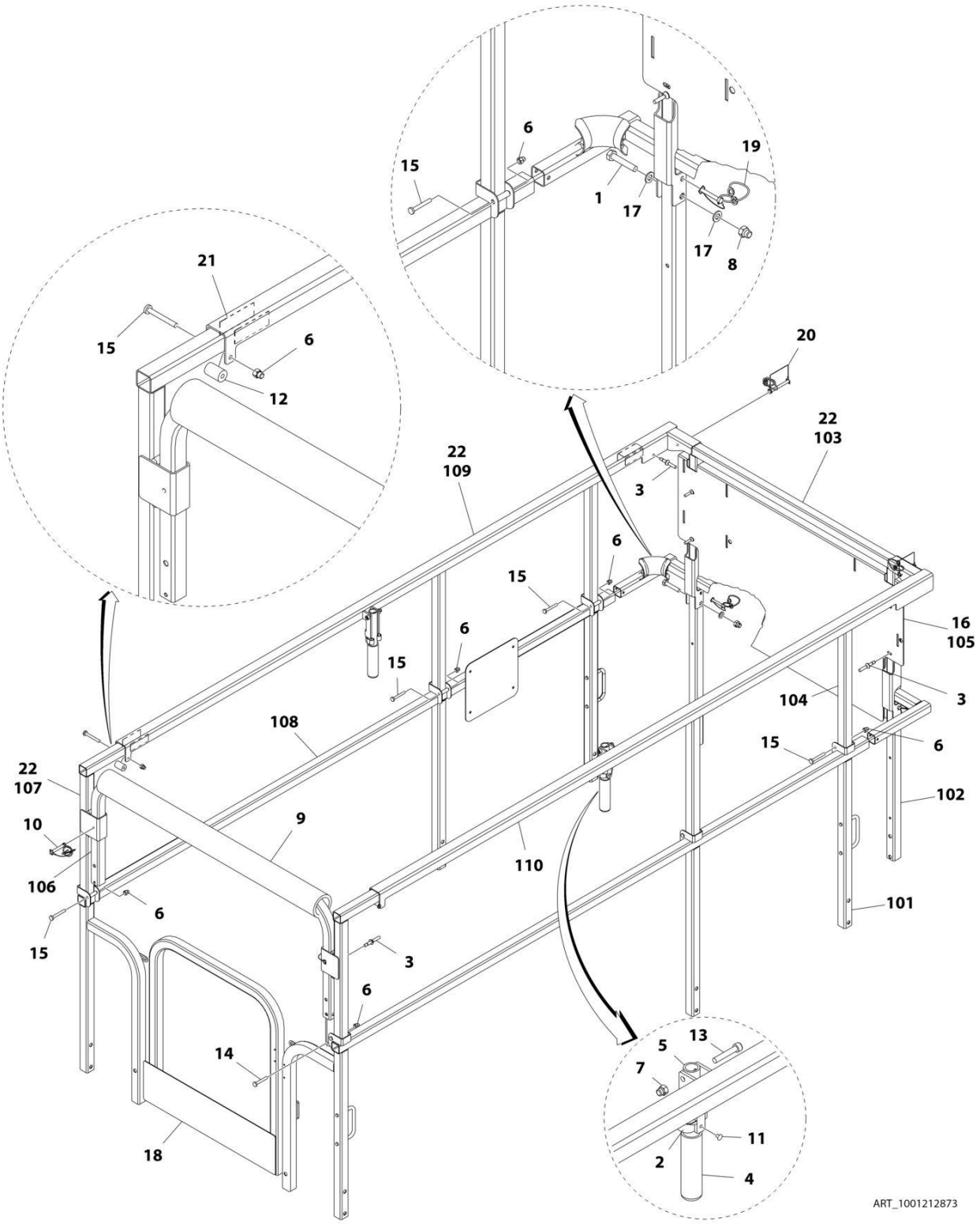


FIGURE 4-18. RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND SELF CLOSING GATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001212873	Ref	RAIL KIT - WITH INSIDE EXTENSION RAILS, HANDLE AND SELF CLOSING GATE	A
1	0701019	2	Bolt M10 x 55	
2	1380132	2	Clip, Gripper	
3	2080040	8	Fastener, Huck	
4	2560088	2	Handle	
5	2560190	2	Handle, Platform	
6	3290606	9	Nut M6	
7	3290806	2	Nut M8	
8	3291006	2	Nut M10 Grade 8	
9	3340612	3 ft/0.9m	Pad, Cover	
10	3423278	2	Pin, Snap	
11	3820019	2	Rivet	
12	3860111	2	Roller	
13	3900345	2	Screw	
14	4010616	1	Screw M6 x 40	
15	4010618	8	Screw M6 x 50	
16	4420037	1	Tape, Insulation	
17	4812000	4	Washer M10	
18	4846723	1	Gate	
19	1001187585	2	Pin, Snap	
20	1001187587	2	Pin, Snap	
21	1001189762	AR	Tape	
22	1001212874	1	Rail Kit (See Items 101-110 for Breakdown)	
	1001212874	Ref	RAIL KIT	C
101	1001179400	1	Rail, Right Bottom	
102	1001179402	1	Rail, Mid Bottom	
103	1001179409	1	Rail, Mid Top	
104	1001179410	1	Rail, Right Top	
105	1001179415	1	Plate, Placard	
106	1001179417	1	Tube, Drywall Gate	
107	1001179437	1	Rail, Left Top	
108	1001179442	1	Rail, Left Bottom	
109	1001212875	1	Rail, Top LH Slide	
110	1001212876	1	Rail, Top RH Slide	

SECTION 4 - PLATFORM

FIGURE 4-19. RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE (SN 0200239382 through 0200264570, SN 1200025023 through 1200030201, SN B200020297 through B200041196)

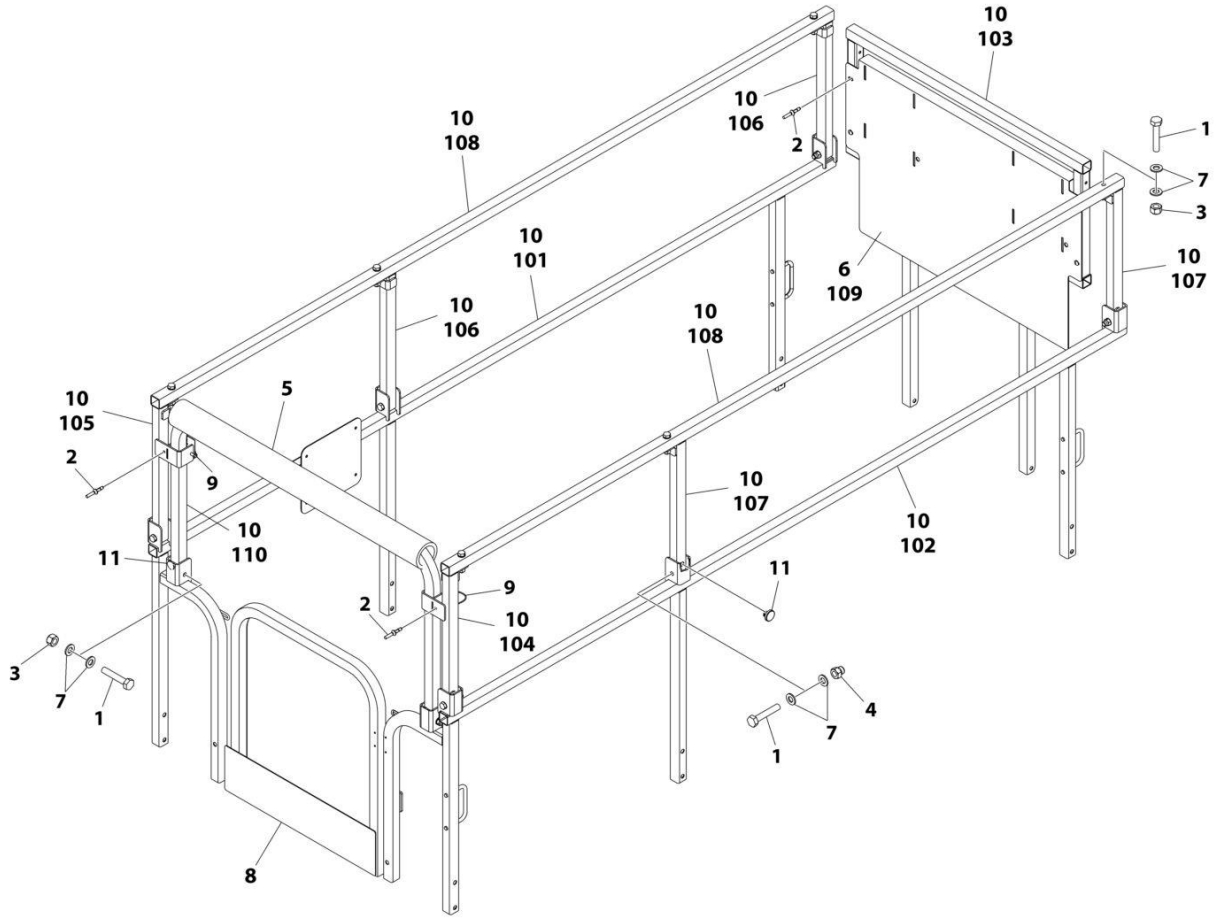


FIGURE 4-19. RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE (SN 0200239382 through 0200264570, SN 1200025023 through 1200030201, SN B200020297 through B200041196)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001209253	Ref	RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE	B
1	0701019	14	Bolt M10 x 55	
2	2080040	6	Fastener, Huck	
3	3291005	6	Nut M10	
4	3291006	8	Nut M10	
5	3340612	3 ft/0.9m	Pad, Cover	
6	4420037	1	Tape, Insulation	
7	4812000	28	Washer M10	
8	4846723	1	Gate	
9	1001187587	2	Pin, Snap	
10	1001209265	1	Rail Kit (See Items 101-110 for Breakdown)	
11	1001137675	8	Bumper	
	1001209265	Ref	RAIL KIT	C
101	1001209266	1	Rail, Left Bottom	
102	1001209267	1	Rail, Right Bottom	
103	1001209269	1	Rail, Mid Top	
104	1001209270	1	Rail, Right Entrance	
105	1001209271	1	Rail, Left Entrance	
106	1001209272	2	Rail, Support	
107	1001209273	2	Rail, Support	
108	1001209274	2	Rail, Top	
109	1001209275	1	Plate, Placard	
110	1001210378	1	Tube, Drywall Gate	

FIGURE 4-20. RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE (SN 0200264571 to Present, SN 1200030202 to Present, SN B200041197 to Present)

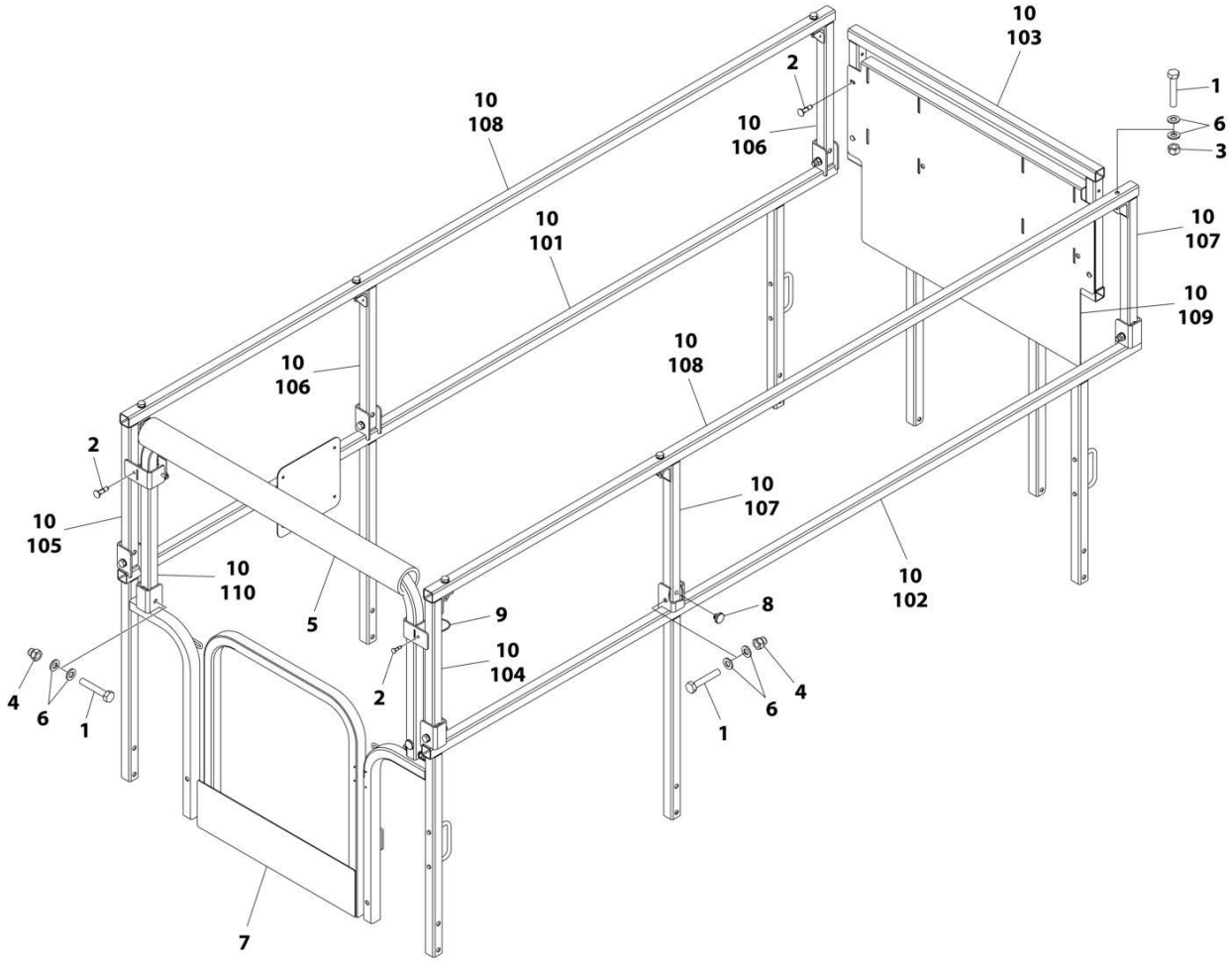


FIGURE 4-20. RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE (SN 0200264571 to Present, SN 1200030202 to Present, SN B200041197 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001218388	Ref	RAIL KIT - WITH OUTSIDE EXTENSION RAILS AND SELF CLOSING GATE	B
1	0701020	14	Bolt M10 x 60	
2	2080040	6	Fastener, Huck	
3	3291005	6	Nut M10	
4	3291006	8	Nut M10	
5	3340612	3 ft/0.9m	Pad, Cover	
6	4812000	28	Washer M10	
7	4846723	1	Gate	
8	1001137675	8	Bumper	
9	1001187587	2	Pin, Snap	
10	1001209265	1	Rail Kit (See Items 101-110 for Breakdown)	
	1001209265	Ref	RAIL KIT	C
101	1001209266	1	Rail, Left Bottom	
102	1001209267	1	Rail, Right Bottom	
103	1001209269	1	Rail, Mid Top	
104	1001209270	1	Rail, Right Entrance	
105	1001209271	1	Rail, Left Entrance	
106	1001209272	2	Rail, Support	
107	1001209273	2	Rail, Support	
108	1001209274	2	Rail, Top	
109	1001209275	1	Plate, Placard	
110	1001210378	1	Tube, Drywall Gate	

FIGURE 4-21. PLATFORM CONSOLE ASSEMBLY

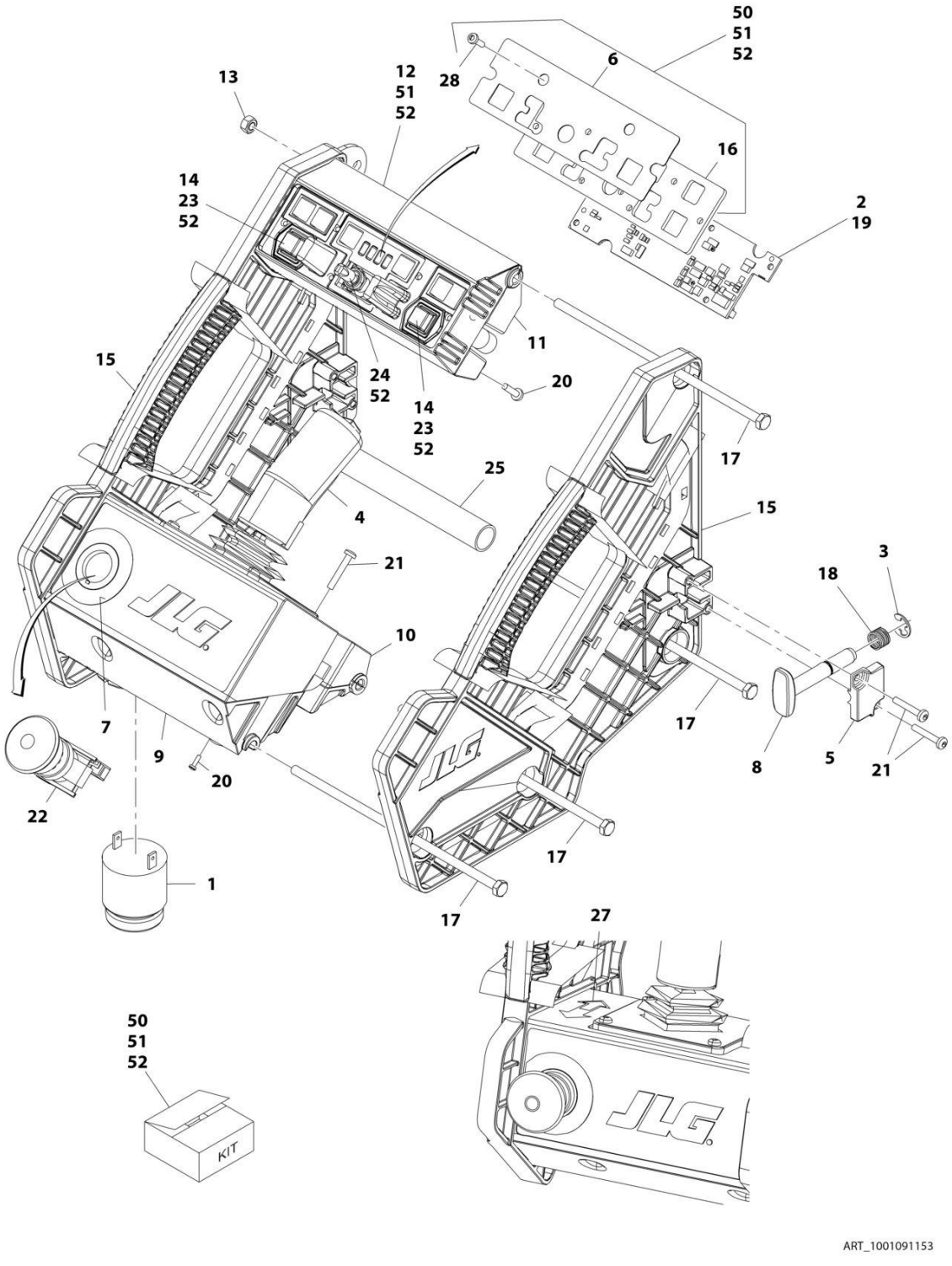


FIGURE 4-21. PLATFORM CONSOLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091153	Ref	PLATFORM CONSOLE ASSEMBLY	J
		Ref	Usage Chart	
		Ref	All Specs Except CE and Australian Specs	
		Ref	China Specs **(SN B200020297 through B200028887)**	
1	0140011	1	Alarm	
2	1600439	1	PC Board	
3	1380156	1	E-Clip	
4	1600402	1	Drive/Steer Controller Assembly (See DRIVE/STEER CONTROLLER ASSEMBLY for Breakdown)	
5	1671098	1	Latch	
6	1001091272	1	Decal - Icon	
7	1705676	1	Decal - Emergency Stop Ring	
8	2560179	1	Handle, Latch	
9	1001091277	1	Housing, Joystick (Lower)	
10	1001091278	1	Mount, Joystick	
11	1001091279	1	Housing, Module Mounting (Lower)	
12	1001091280	1	Housing, Module Mounting (Upper)	
13	3300473	4	Nut M6	
14	3340968	2	Button (Includes Black Button Only)	
15	3380475	2	Panel, Side	
16	1001091283	1	Plate, Decal	
17	3900333	4	Screw M6 x 190	
18	4160203	1	Spring, Compression	
19	4191306	5	Screw M3.5 x 12	
20	4191407	8	Screw M4 x 16	
21	4191409	6	Screw M4 x 25	
22	4360475	1	Switch, Emergency Stop	
22	7020175	1	Cap	
22	7020176	1	Block, Contact	
23	4360538	2	Strip, Switch and Membrane	
24	4360539	1	Switch, Toggle	
25	4568738	1	Tube, Spacer	
26	4922870	1	Harness, Platform Box (Not Shown - See ELECTRICAL SECTION for Breakdown)	
27	1703819	1	Decal - Directional Arrow	
28	1001091396	6	Screw M3.5 x 12	
29	See Note	NSS	Decal - Control Module (Not Shown) (Note: Not Available for Purchase) **(SN 1200030202 to Present, SN B200051211 to Present, SN M200023870 through M200039292)**	
50	1001091968	1	Decal Kit (Includes Items 6, 16 & 28) (Note: Two Item 6's are included in the kit - 1 for All Specs except CE/Australian Specs and 1 for CE/Australian Specs. Use decal required for applicable spec. Dispose of the decal not used)	A
51	1001091393	1	Decal and Housing Kit (Includes Items 6, 12, 16 & 28) (Note: Two Item 6's are included in the kit - 1 for All Specs except CE/Australian Specs and 1 for CE/Australian Specs. Use decal required for applicable spec. Dispose of the decal not used)	C
52	1001091965	1	Decal, Housing and PC Board Kit (Includes Items 2, 6, 12, 14, 16, 19, 23, 24 & 28) (Note: Two Item 6's are included in the kit - 1 for All Specs except CE/Australian Specs and 1 for CE/Australian Specs. Use decal required for applicable spec. Dispose of the decal not used)	C

FIGURE 4-22. PLATFORM CONSOLE ASSEMBLY

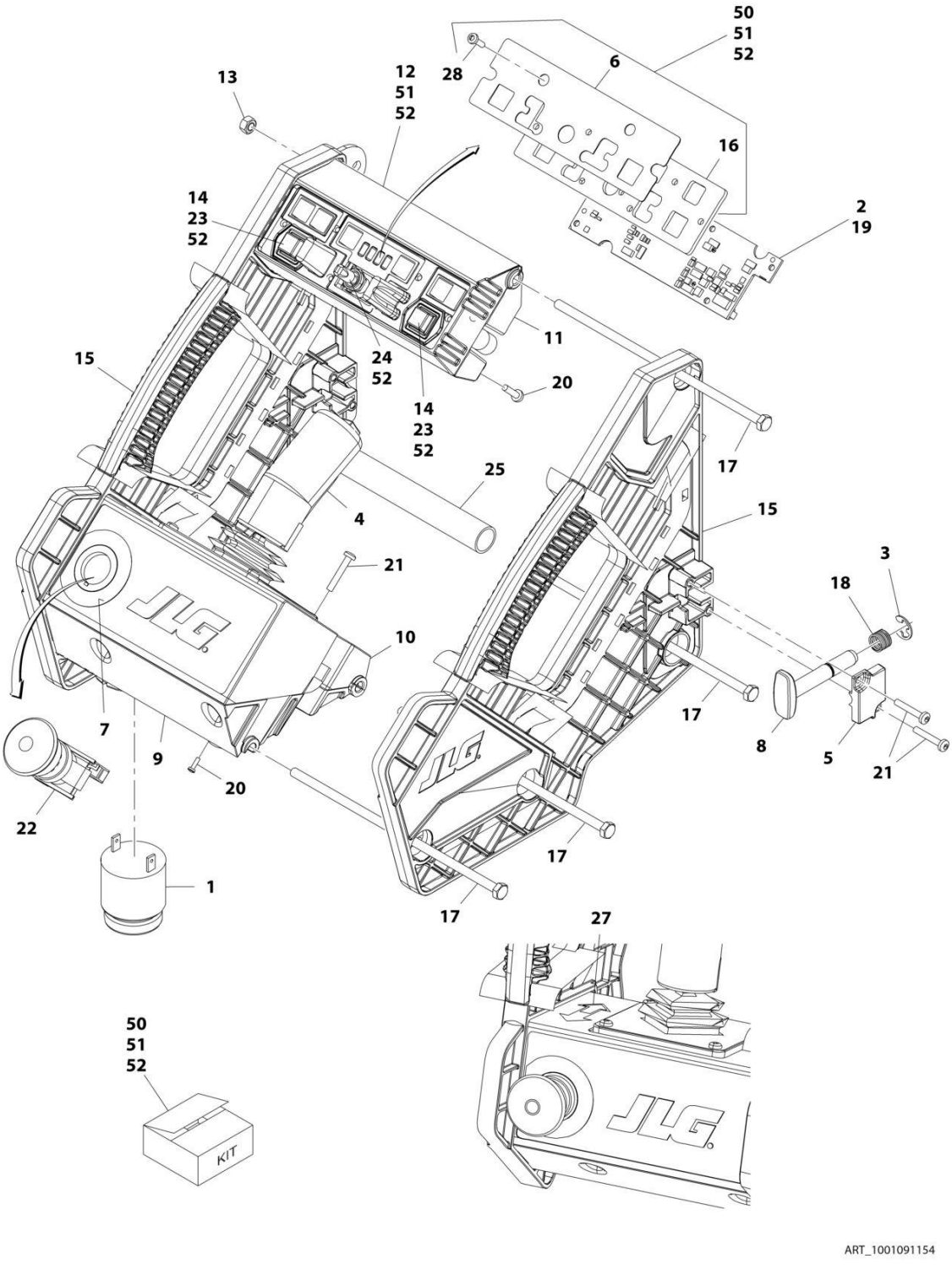


FIGURE 4-22. PLATFORM CONSOLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091154	Ref	PLATFORM CONSOLE ASSEMBLY	H
		Ref	Usage Chart	
		Ref	Australian Specs	
		Ref	CE Specs	
		Ref	China Specs **(SN B200028888 to Present)**	
1	0140011	1	Alarm	
2	1600439	1	PC Board	
3	1380156	1	E-Clip	
4	1600402	1	Drive/Steer Controller Assembly (See DRIVE/STEER CONTROLLER ASSEMBLY for Breakdown)	
5	1671098	1	Latch	
6	1001091275	1	Decal - Icon	
7	1705676	1	Decal - Emergency Stop Ring	
8	2560179	1	Handle, Latch	
9	1001091277	1	Housing, Joystick (Lower)	
10	1001091278	1	Mount, Joystick	
11	1001091279	1	Housing, Module Mounting (Lower)	
12	1001091280	1	Housing, Module Mounting (Upper)	
13	3300473	4	Nut M6	
14	3340968	2	Button (Includes Black Button Only)	
15	3380475	2	Panel, Side	
16	1001091283	1	Plate, Decal	
17	3900333	4	Screw M6 x 190	
18	4160203	1	Spring, Compression	
19	4191306	5	Screw M3.5 x 12	
20	4191407	8	Screw M4 x 16	
21	4191409	6	Screw M4 x 25	
22	4360475	1	Switch, Emergency Stop	
22	7020175	1	Cap	
22	7020176	1	Block, Contact	
23	4360538	2	Strip, Switch and Membrane	
24	4360539	1	Switch, Toggle	
25	4568738	1	Tube, Spacer	
26	4922870	1	Harness, Platform Box (Not Shown - See ELECTRICAL SECTION for Breakdown)	
27	1703819	1	Decal - Directional Arrow	
28	1001091396	6	Screw M3.5 x 12	
29	See Note	NSS	Decal - Control Module (Not Shown) (Note: Not Available for Purchase) **(SN 1200030202 to Present, SN B200051211 to Present, SN M200023870 through M200039292)**	
50	1001091968	1	Decal Kit (Includes Items 6, 16 & 28) (Note: Two Item 6's are included in the kit - 1 for All Specs except CE/Australian Specs and 1 for CE/Australian Specs. Use decal required for applicable spec. Dispose of the decal not used)	A
51	1001091393	1	Decal and Housing Kit (Includes Items 6, 12, 16 & 28) (Note: Two Item 6's are included in the kit - 1 for All Specs except CE/Australian Specs and 1 for CE/Australian Specs. Use decal required for applicable spec. Dispose of the decal not used)	C
52	1001091965	1	Decal, Housing and PC Board Kit (Includes Items 2, 6, 12, 14, 16, 19, 23, 24 & 28) (Note: Two Item 6's are included in the kit - 1 for All Specs except CE/Australian Specs and 1 for CE/Australian Specs. Use decal required for applicable spec. Dispose of the decal not used)	C

FIGURE 4-23. DRIVE/STEER CONTROLLER ASSEMBLY

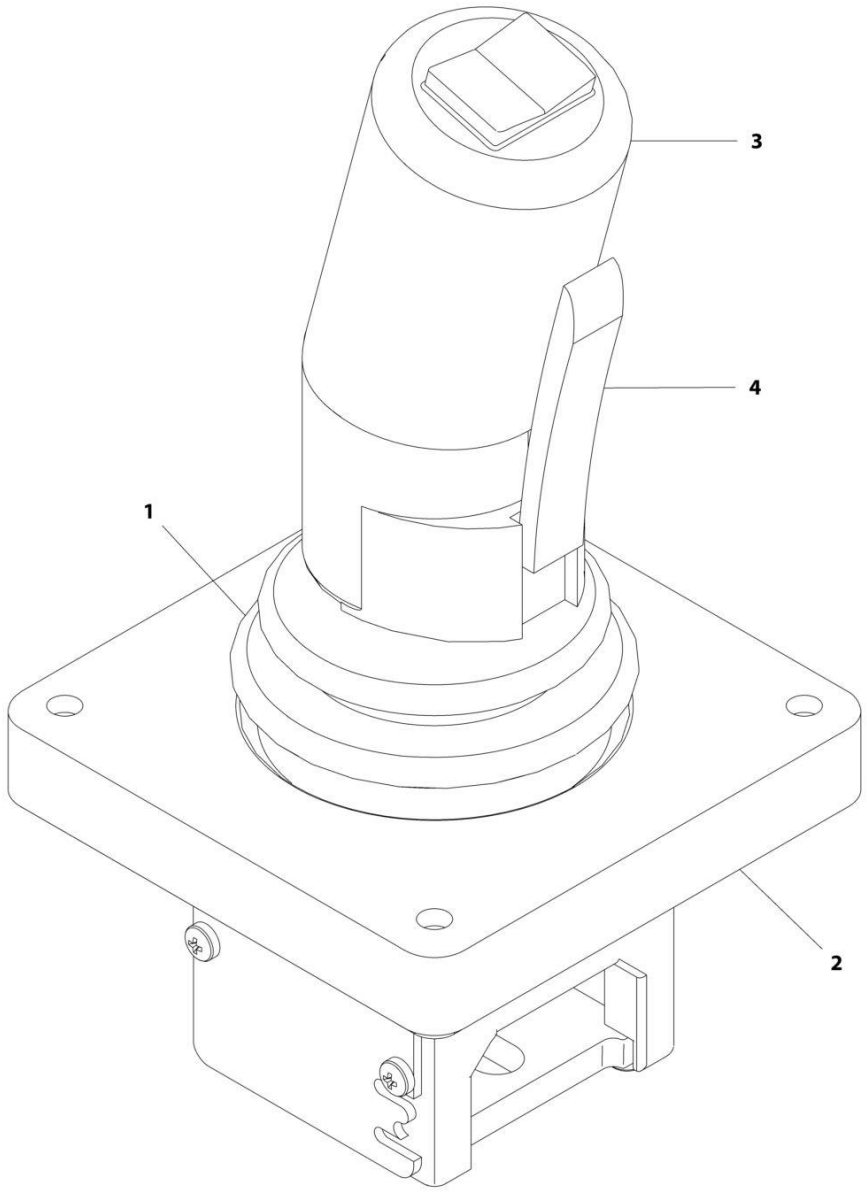


FIGURE 4-23. DRIVE/STEER CONTROLLER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1600402	Ref	DRIVE/STEER CONTROLLER ASSEMBLY	A
1	70001250	1	Boot, Panel	
2	70001252	1	Gasket, Mounting	
2	70001251	1	Bezel, Mounting	
3	70003650	1	Handle Repair Kit (Includes handle gasket, item#4 push button and item #4 lever installed in front handle half, back handle half, top actuator, boot and hardware.)	
3	70000084	1	Cap, Rubber	
3	70000082	1	Microswitch	
3	7027766	1	Ring, Retaining	
3	7027365	1	Actuator, Handle	
3	70001253	1	Gasket, Handle	
3	70000683	4	Washer, Neoprene	
3	70000685	2	Spacer, Plastic	
3	70000686	2	Screw (Top)	
3	70000684	2	Screw (Bottom)	
4	7027367	1	Switch, Push Button	
4	7027765	1	Lever, Enable	

FIGURE 4-24. PLATFORM CONSOLE HANGER INSTALLATION (OPTIONAL)

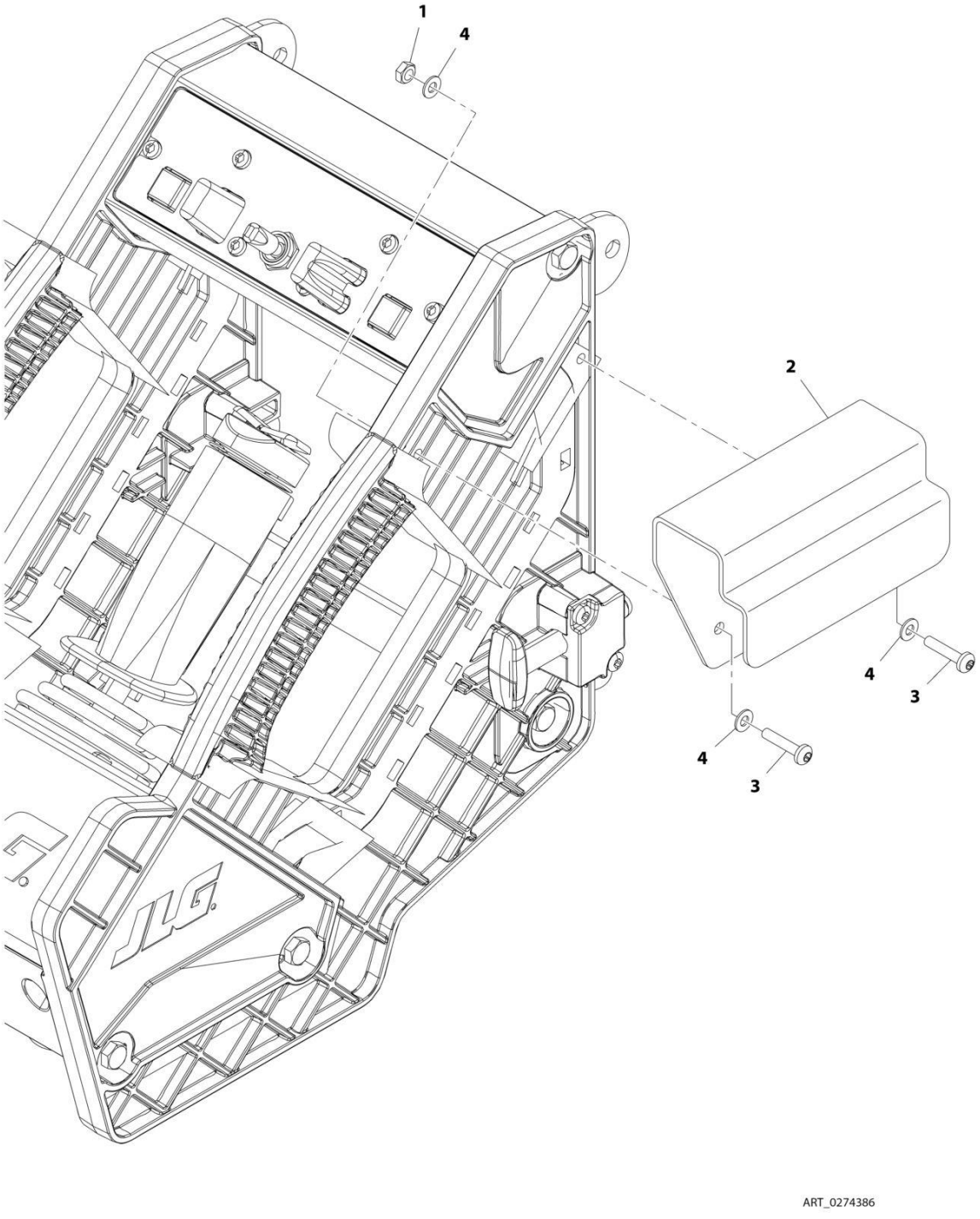


FIGURE 4-24. PLATFORM CONSOLE HANGER INSTALLATION (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274386	Ref	PLATFORM CONSOLE HANGER INSTALLATION (OPTIONAL)	B
1	3290405	2	Nut M4	
2	3575794	1	Plate, Bracket	
3	3900338	2	Screw M4 x 20	
4	4811400	4	Washer M4	

FIGURE 4-25. WORKSTATION WITHOUT DC CONVERTER INSTALLATION

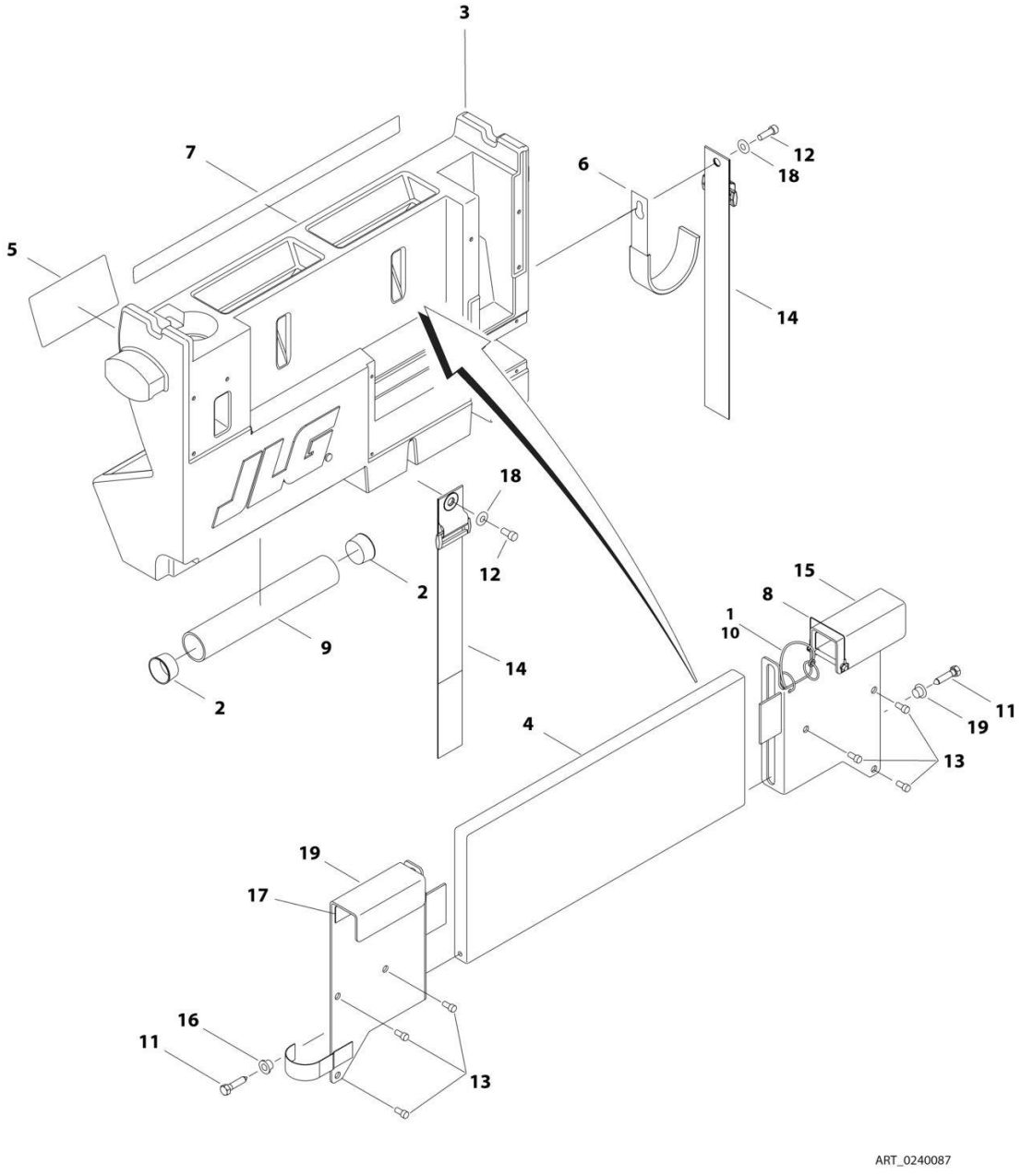


FIGURE 4-25. WORKSTATION WITHOUT DC CONVERTER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273965	Ref	WORKSTATION INSTALLATION - REFERENCE CHART	B
	0240087	Ref	WORKSTATION WITHOUT DC CONVERTER INSTALLATION	C
1	1060379	1	Cable, Lanyard	
2	1120555	2	Cap, Manual Storage	
3	1580023	1	Container	
4	1580024	1	Tray	
5	1705997	1	Decal - Workstation	
6	2700100	1	Hook, Hanger	
7	2902348	1	Decal - Workstation Kit	
8	3422219	1	Pin	
9	3460334	1	PVC Pipe	
10	3760170	2	Ring	
11	3900355	2	Screw 5/16-9 x 1-1/2	
12	3931412	2	Bolt 1/4-20 x 3/4	
13	3931508	6	Bolt 5/16-18 x 1/2	
14	4240003	2	Strap	
15	4340853	1	Mount, RH Channel	
16	4340854	1	Mount, LH Channel	
17	4420062	3 ft/0.9m	Tape	
18	4711400	2	Washer 1/4	
19	4740480	2	Insert, Plastic	

FIGURE 4-26. WORKSTATION WITH DC CONVERTER INSTALLATION

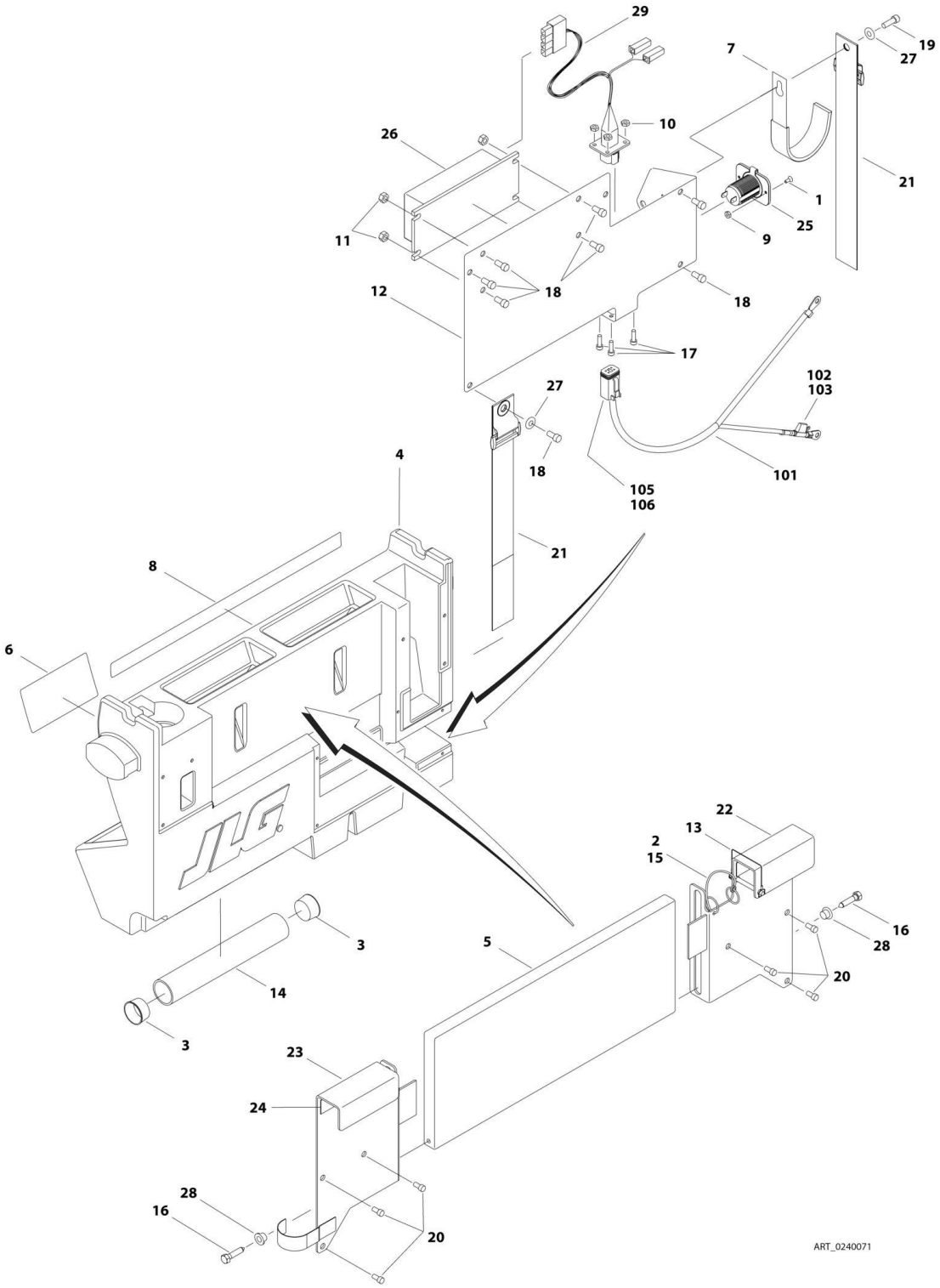


FIGURE 4-26. WORKSTATION WITH DC CONVERTER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273956	Ref	WORKSTATION POWERED INSTALLATION – REFERENCE CHART	B
	0240071	Ref	WORKSTATION WITH DC CONVERTER INSTALLATION	D
1	0740603	2	Screw #6-32 x 3/4	
2	1060379	1	Cable, Lanyard	
3	1120555	2	Cap, Manual Storage	
4	1580023	1	Container	
5	1580024	1	Tray	
6	1705997	1	Decal - Workstation	
7	2700100	1	Hook, Hanger	
8	2902348	1	Decal - Workstation Kit	
9	3310601	2	Nut #6-32	
10	3311005	4	Nut #10-24	
11	3311405	4	Nut 1/4-20	
12	3380527	1	Panel, Converter/Receptacle	
13	3422219	1	Pin	
14	3460334	1	PVC Pipe	
15	3760170	2	Ring	
16	3900355	2	Screw 5/16-9 x 1-1/2	
17	3931010	4	Bolt #10-24 x 5/8	
18	3931408	9	Bolt 1/4-20 x 1/2	
19	3931412	1	Bolt 1/4-20 x 3/4	
20	3931508	6	Bolt 5/16-18 x 1/2	
21	4240003	2	Strap	
22	4340853	1	Mount, RH Channel	
23	4340854	1	Mount, LH Channel	
24	4420062	3 ft/0.9m	Tape	
25	4461012	1	Receptacle	
26	4530026	1	Transformer	
27	4711400	2	Washer 1/4	
28	4740480	2	Insert, Plastic	
29	4923121	1	Harness, Workstation Power (See ELECTRICAL SECTION for Breakdown)	
	4923115	1	WORKSTATION POWER CABLE INSTALLATIONS	B
101	1060331	70 ft /21.3m	Cable, 16/4	
102	2400061	1	Fuse - 10 Amp	
103	2400066	1	Holder, Fuse	
105	4460465	1	Socket, Female	
106	4460884	1	Connector - 4 Position	

FIGURE 4-27. ELECTRICIAN'S TREE INSTALLATION

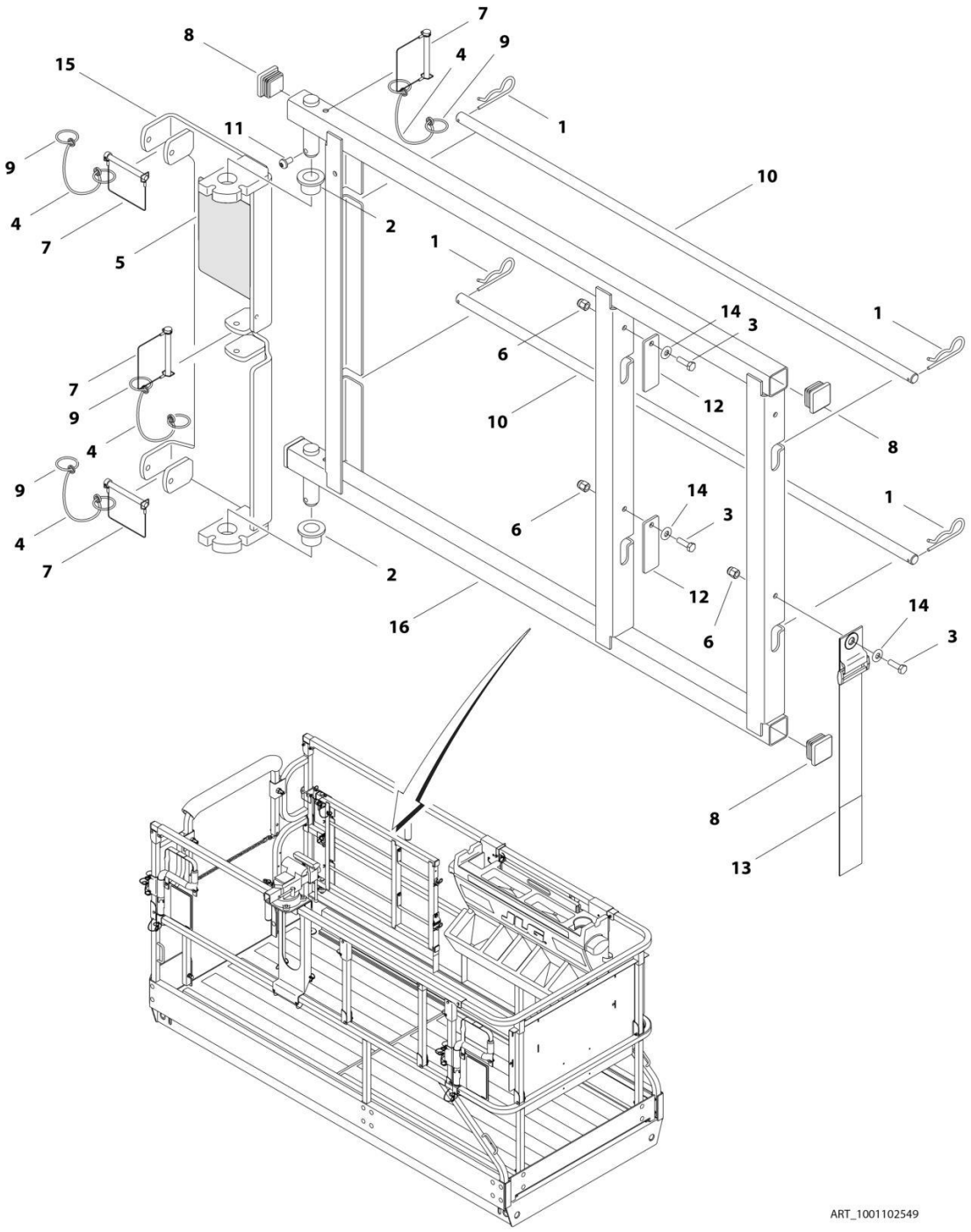


FIGURE 4-27. ELECTRICIAN'S TREE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001102549	Ref	ELECTRICIAN'S TREE INSTALLATION	B
1	80325	4	Hairpin, Cotter	
2	0440223	2	Bushing	
3	0700610	3	Bolt M6 x 20	
4	1060379	3	Cable, Lanyard	
5	2902347	1	Decal – Electrician’s Tree Kit	
6	3290606	3	Nut M6	
7	3422219	4	Pin	
8	3520072	5	Plug	
9	3760170	8	Ring	
10	3841667	2	Rod, Spool	
11	4191706	1	Screw M6 x 12	
12	4220227	2	Stop, Spool Rod	
13	4240003	1	Strap	
14	4711400	3	Washer 1/4	
15	1001102516	1	Mount, Base Pivot	
16	1001102562	1	Mount, Spool Rack	

FIGURE 4-28. VISE INSTALLATION (ELECTRICAL, PLUMBERS AND PLANT PACKAGE)

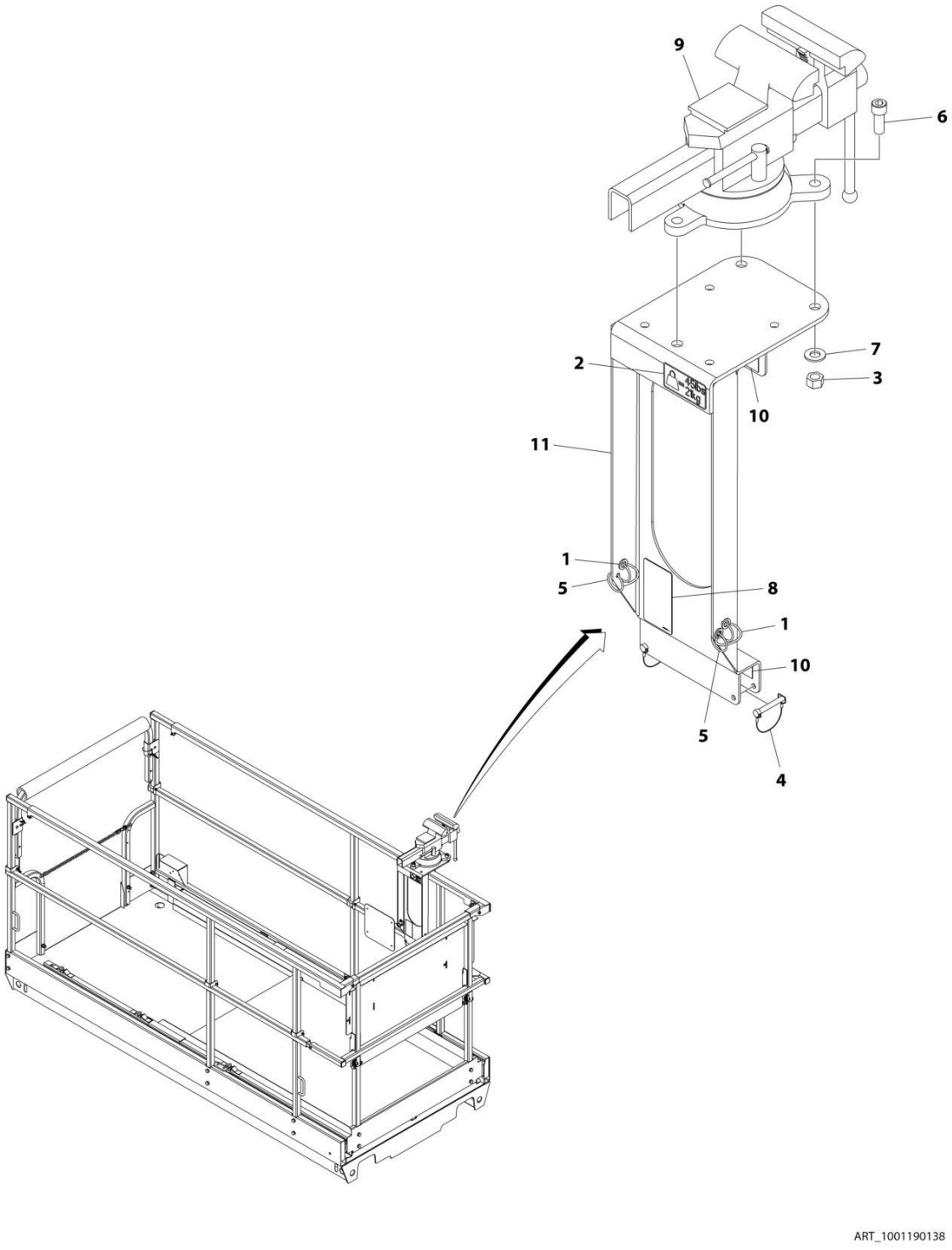


FIGURE 4-28. VISE INSTALLATION (ELECTRICAL, PLUMBERS AND PLANT PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001190138	Ref	VISE INSTALLATION (ELECTRICAL, PLUMBERS AND PLANT PACKAGE)	B
1	1060379	2	Cable, Lanyard	
2	1705985	1	Decal - Weight	
3	3271805	3	Nut 1/2-13	
4	3421453	2	Pin	
5	3760170	4	Ring	
6	3931820	3	Bolt 1/2-13 x 1-1/4	
7	4711800	3	Washer 1/2	
8	8005670	1	Decal	
9	1001157050	1	Vise	
10	1001189762	6 in/ 15.2cm	Tape, UHMW	
11	1001190137	1	Mount, Vise	

FIGURE 4-29. LOW HEIGHT DRIVE CUTOUT (JAPANESE SPECS ONLY)

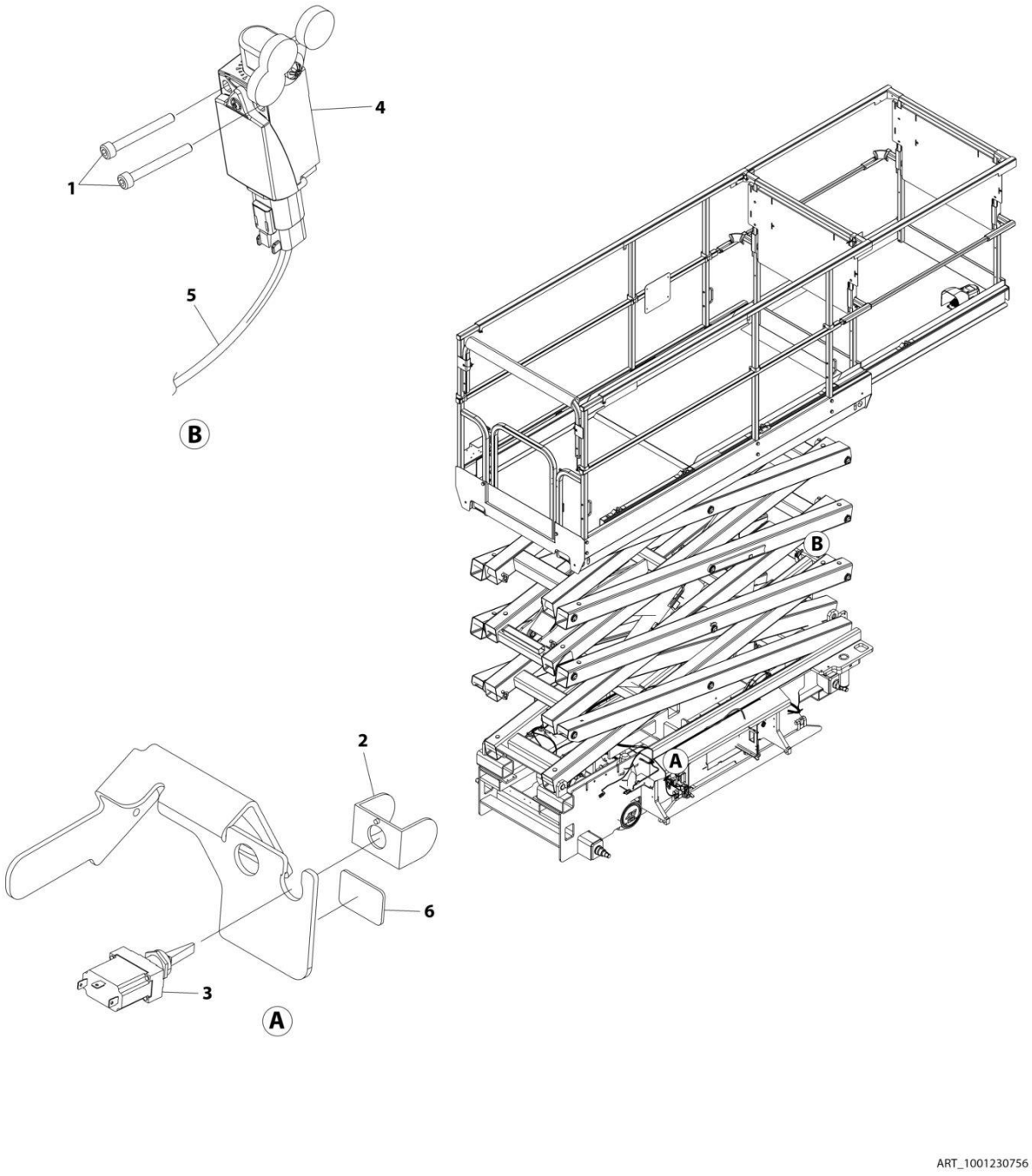


FIGURE 4-29. LOW HEIGHT DRIVE CUTOUT (JAPANESE SPECS ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001230756	Ref	LOW HEIGHT DRIVE CUTOUT	A
1	4031511	2	Capscrew M4 x 35	
2	4060906	1	Guard, Switch	
3	4360345	1	Switch	
4	1001130614	1	Switch, Limit	
5	1001214339	1	Harness, Low Height	
5	4460884	3	Connector - 4 Position	
5	4460465	6	Socket, Female	
5	4460466	6	Seal	
5	4460932	2	Connector - 4 Position	
5	4460464	3	Pin, Male	
5	4460466	5	Seal	
5	4460418	1	Connector - 6 Position	
5	4460419	3	Terminal	
6	1001214409	1	Decal - Low Drive Cutout	

FIGURE 4-30. OVERHEAD PROTECTION AND LOW HEIGHT DRIVE CUTOUT (KOREA SPECS ONLY)

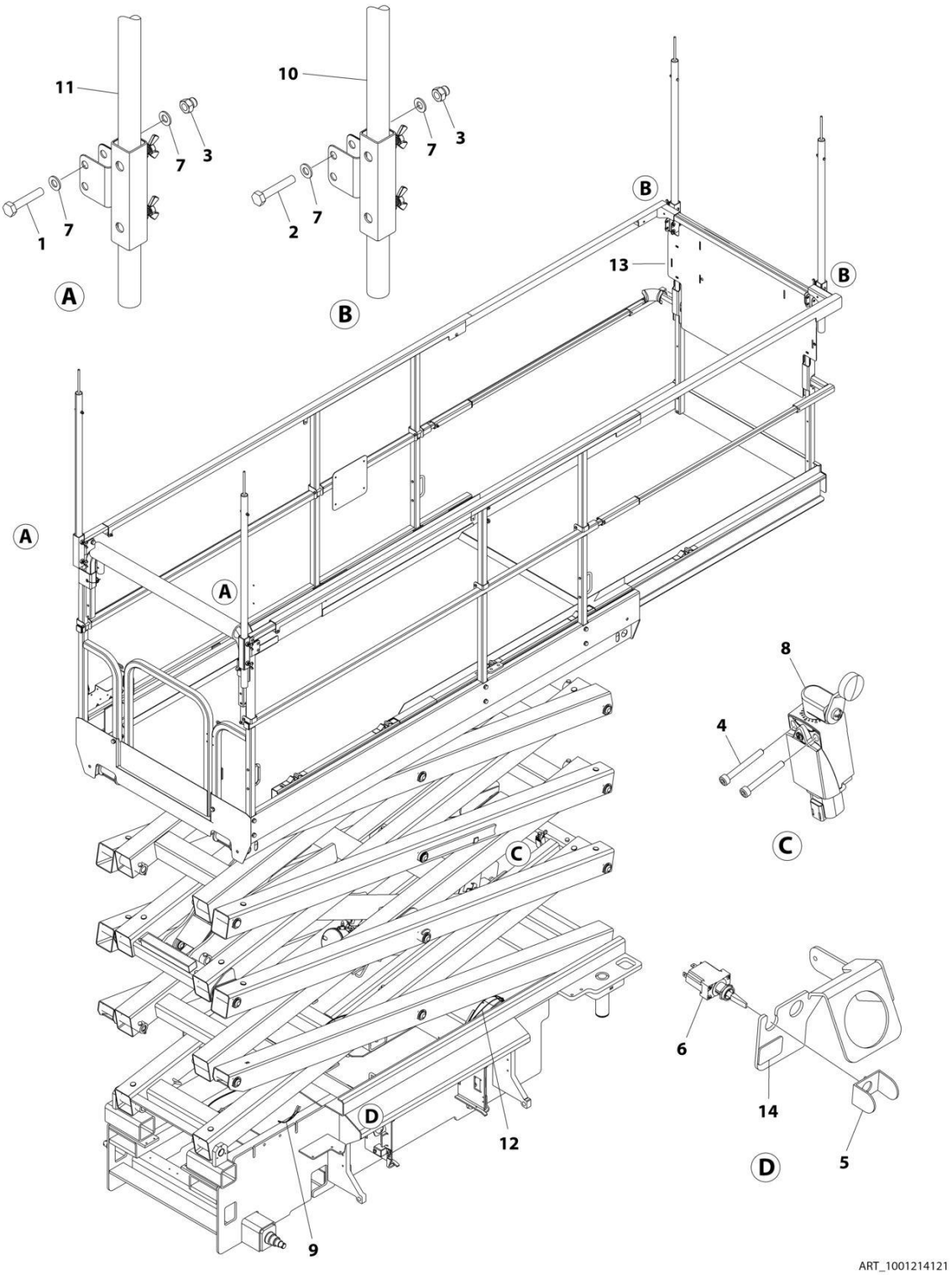


FIGURE 4-30. OVERHEAD PROTECTION AND LOW HEIGHT DRIVE CUTOUT (KOREA SPECS ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001214121	Ref	OVERHEAD PROTECTION AND LOW HEIGHT DRIVE CUTOUT (KOREA SPECS ONLY)	B
1	0701019	4	Bolt M10 x 55	
2	0701020	4	Bolt M10 x 60	
2	0701019	4	Bolt M10 x 55	
3	3291006	8	Nut M10	
4	4031511	2	Capscrew M4 x 35	
5	4060906	1	Guard, Switch	
6	4360345	1	Switch	
7	4812000	16	Washer #10	
8	1001130614	1	Switch, Limit	
9	1001213660	1	Harness, Overhead	
9	4460424	1	Connector, Female - 2 Position	
9	4460227	1	Pin, Male	
9	4460320	1	Plug, Male - 2 Position	
9	4460226	1	Socket, Female	
10	1001213818	2	Overhead Switch Kit (Front) (See OVERHEAD SWITCH KIT (FRONT) for Breakdown) **(SN B200020297 through B200046829)**	
10	1001214311	2	Overhead Switch Kit (Front) (See OVERHEAD SWITCH KIT (FRONT) for Breakdown) **(SN B200046830 to Present)**	
11	1001213858	2	Overhead Switch Kit (Rear) (See OVERHEAD SWITCH KIT (REAR) for Breakdown) **(SN B200020297 through B200046829)**	
11	1001214311	2	Overhead Switch Kit (Rear) (See OVERHEAD SWITCH KIT (REAR) for Breakdown) **(SN B200046830 to Present)**	
12	1001214339	1	Harness, Low Height	
12	4460884	3	Connector - 4 Position	
12	4460465	6	Socket, Female	
12	4460466	6	Seal	
12	4460932	2	Connector - 4 Position	
12	4460464	3	Pin, Male	
12	4460466	5	Seal	
12	4460418	1	Connector - 6 Position	
12	4460419	3	Terminal	
13	1001214342	1	Cable, Overhead Switches	
13	4460891	1	Connector - 2 Position	
13	4460465	8	Socket, Female	
14	1001214409	1	Decal - Low Drive Cutout	

FIGURE 4-31. OVERHEAD SWITCH KIT (FRONT) (SN B200020297 through B200046829)

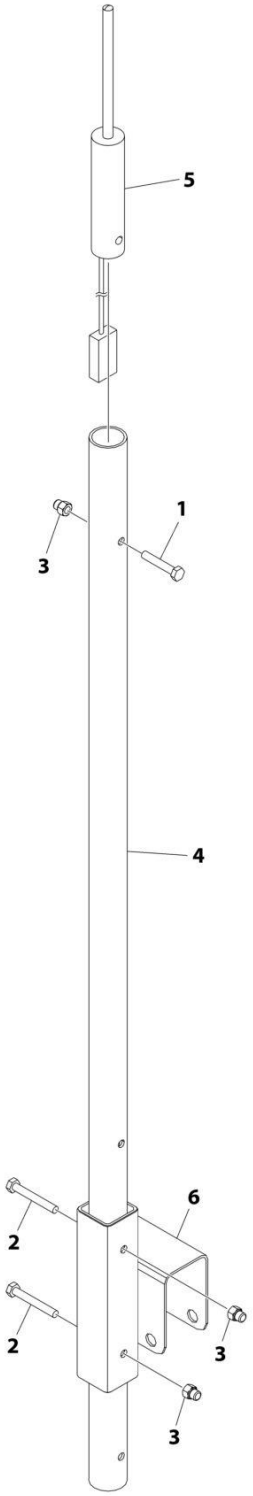


FIGURE 4-31. OVERHEAD SWITCH KIT (FRONT) (SN B200020297 through B200046829)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001213818	Ref	OVERHEAD SWITCH KIT (FRONT)	A
1	0700615	1	Bolt M6 x 35	
2	0710617	2	Bolt M6 x 45	
3	3290606	3	Nut M6	
4	1001213821	1	Tube	
5	1001213822	1	Switch	
5	7028909	1	Connector - 2 Position	
5	77363228	2	Terminal	
6	1001213857	1	Bracket	

FIGURE 4-32. OVERHEAD SWITCH KIT (REAR) (SN B200020297 through B200046829)

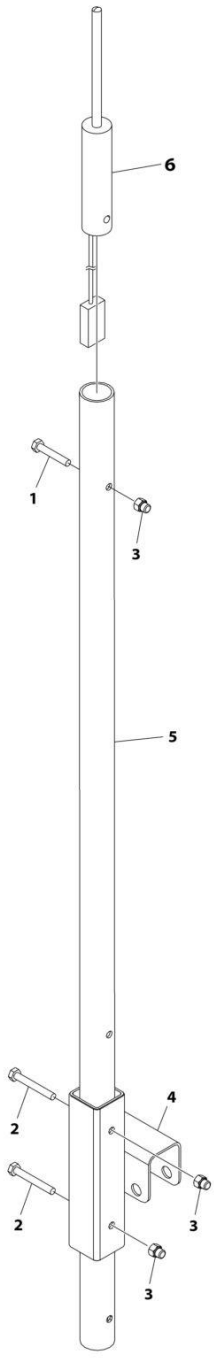
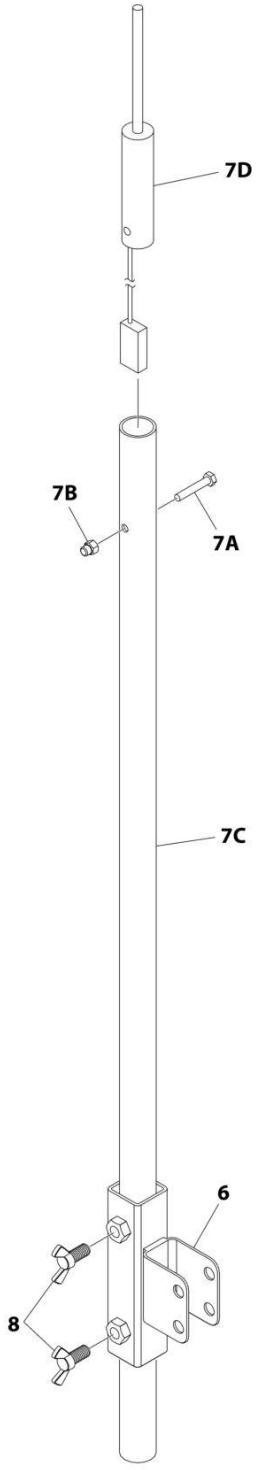


FIGURE 4-32. OVERHEAD SWITCH KIT (REAR) (SN B200020297 through B200046829)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001213858	Ref	OVERHEAD SWITCH KIT (REAR)	A
1	0700615	1	Bolt M6 x 35	
2	0710617	2	Bolt M6 x 45	
3	3290606	3	Nut M6	
4	1001213820	1	Bracket	
5	1001213821	1	Tube	
6	1001213822	1	Switch	
6	7028909	1	Connector - 2 Position	
6	77363228	2	Terminal	

FIGURE 4-33. OVERHEAD SWITCH KIT (FRONT/REAR) (SN B200046830 to Present)



ART_1001214311

FIGURE 4-33. OVERHEAD SWITCH KIT (FRONT/REAR) (SN B200046830 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001214311	Ref	OVERHEAD SWITCH KIT (FRONT/REAR)	C
6	1001214310	1	Bracket	
7	1001217666	1	Switch Kit (Includes Items 7A-7D)	
7A	0700615	1	Bolt M6 x 35	
7B	3290606	1	Nut M6	
7C	1001213821	1	Tube	
7D	1001213822	1	Switch	
7D	7028909	1	Connector - 2 Position	
7D	77363228	2	Terminal	
8	1001222914	2	Screw, Thumb	

FIGURE 4-34. PANEL INSTALLATION (ANSI, ANSI EXPORT, CHINESE, CSA AND KOREA SPECS)

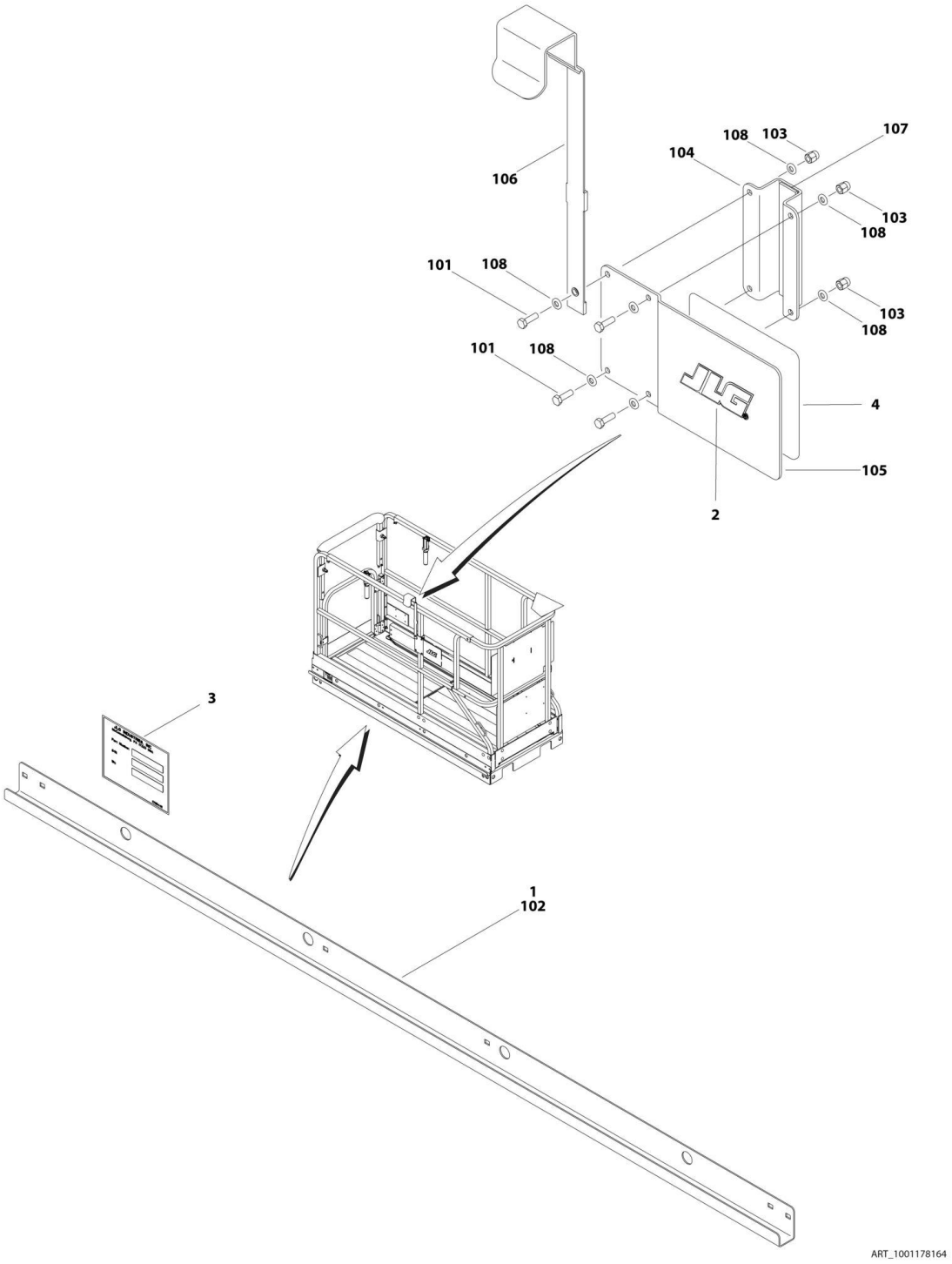


FIGURE 4-34. PANEL INSTALLATION (ANSI, ANSI EXPORT, CHINESE, CSA AND KOREA SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178164	Ref	PANEL INSTALLATION (AUSTRALIAN, CE, CHINESE AND JAPANESES SPECS)	C
1	0240142	1	Attach, Panel Carrier (See Item 101-108 for Breakdown)	
2	1702010	1	Decal - JLG	
3	See Note	1	Nameplate (Note: Not Available for Purchase)	
4	1705792	1	Decal - Capacity	
	0240142	Ref	PANEL CARRIER ATTACHMENT	C
101	0760610	4	Bolt M6 x 20	
102	1271630	1	Channel	
103	3290606	4	Nut M6	
104	3574505	1	Plate, Bracket	
105	3574506	1	Plate, Billboard	
106	4240165	1	Strap, Tie Down	
107	4420037	6 in/15.2cm	Tape, Insulation	
108	4811700	8	Washer M6	

FIGURE 4-35. PANEL INSTALLATION (AUSTRALIAN, CE AND JAPANESES SPECS)

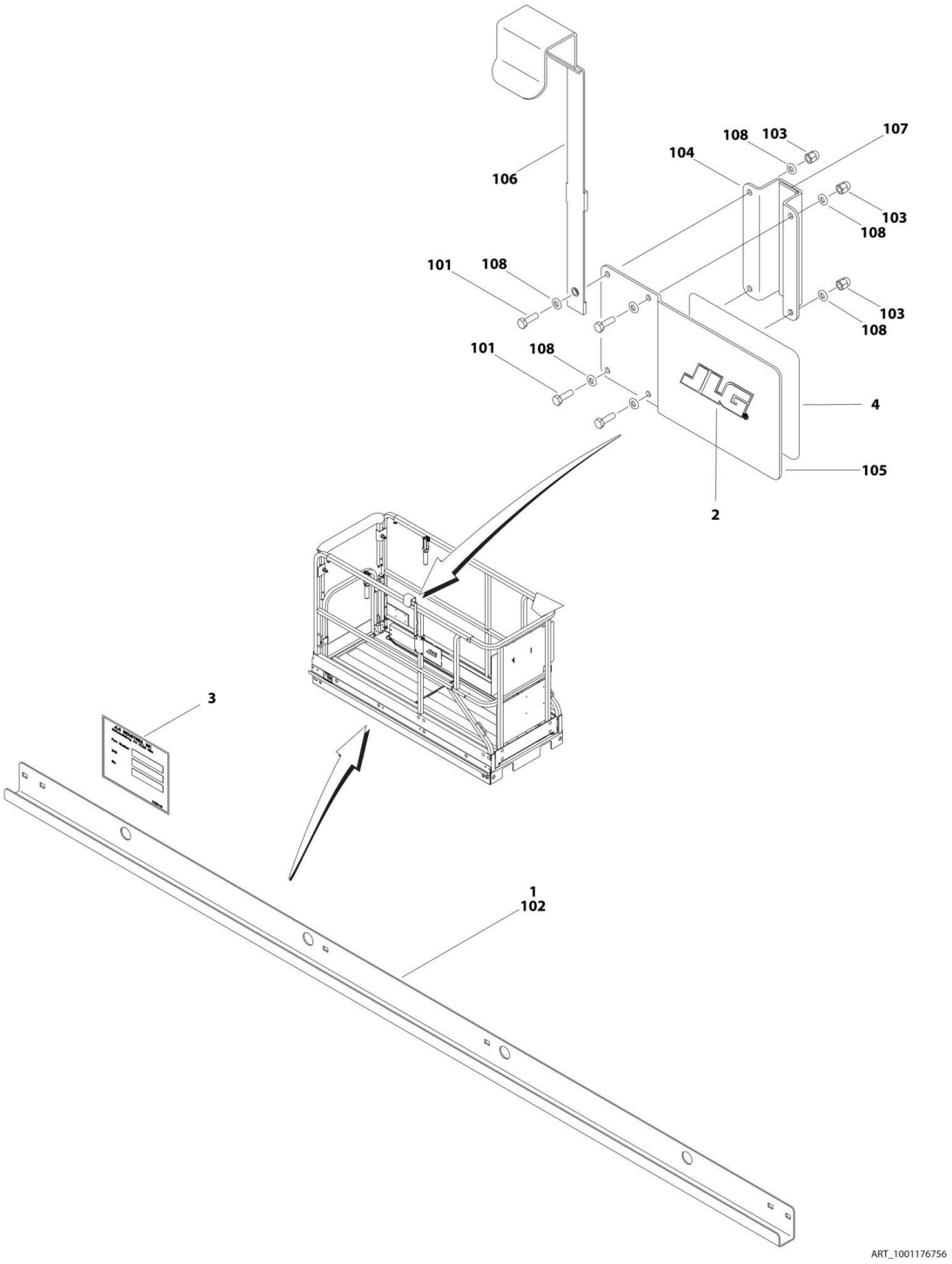


FIGURE 4-35. PANEL INSTALLATION (AUSTRALIAN, CE AND JAPANESES SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176756	Ref	PANEL INSTALLATION	D
1	0240142	1	Attach, Panel Carrier (See Item 101-108 for Breakdown)	
2	1702010	1	Decal - JLG	
3	See Note	1	Nameplate (Note: Not Available for Purchase)	
4	1705793	1	Decal - Capacity	
	0240142	Ref	PANEL CARRIER ATTACHMENT	C
101	0760610	4	Bolt M6 x 20	
102	1271630	1	Channel	
103	3290606	4	Nut M6	
104	3574505	1	Plate, Bracket	
105	3574506	1	Plate, Billboard	
106	4240165	1	Strap, Tie Down	
107	4420037	6 in /15.2cm	Tape, Insulation	
108	4811700	8	Washer M6	

FIGURE 4-36. PIPE RACKS INSTALLATION (FACTORY INSTALLED)

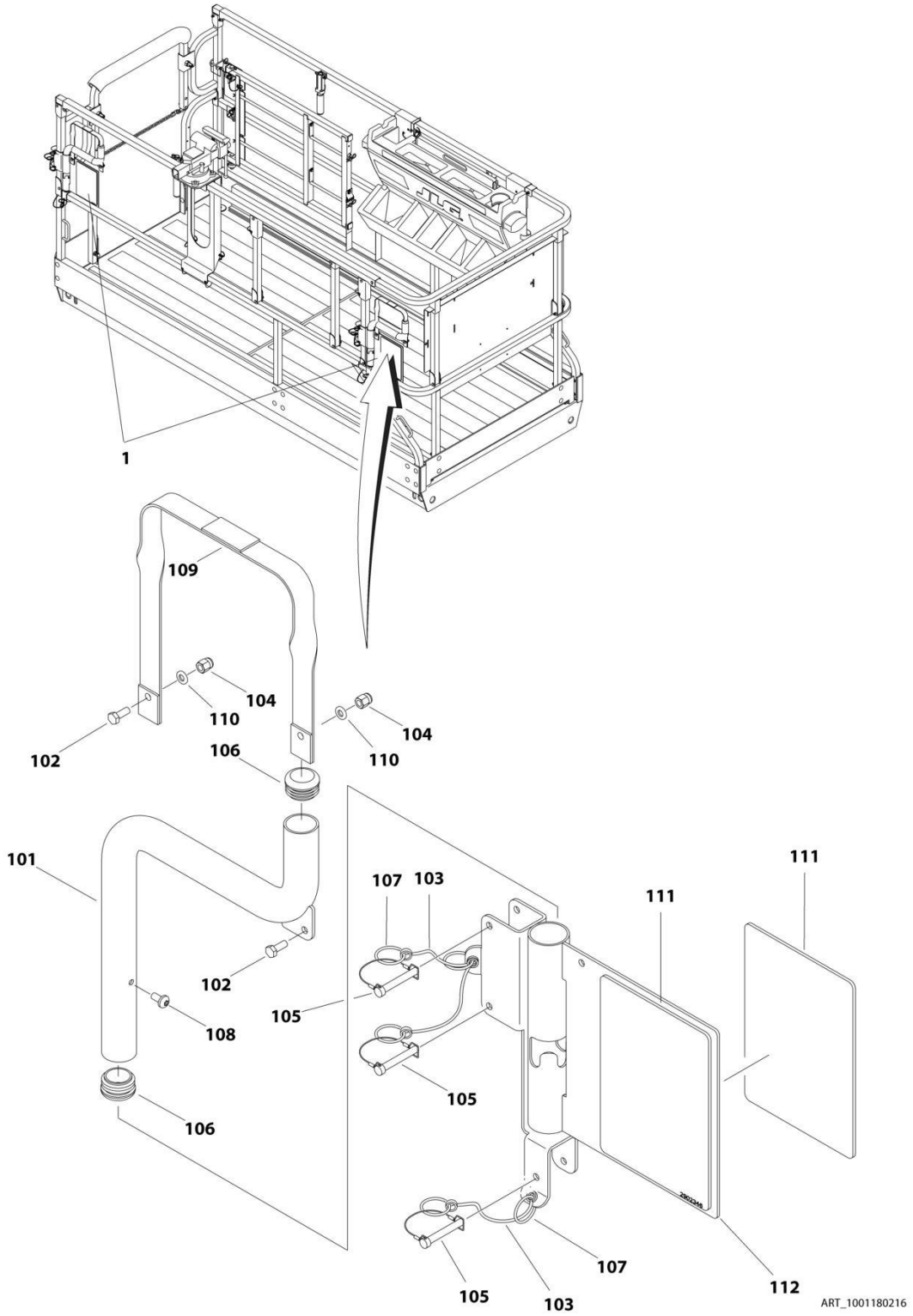


FIGURE 4-36. PIPE RACKS INSTALLATION (FACTORY INSTALLED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001180216	Ref	PIPE RACKS INSTALLATION	B
1	1001180197	2	Pipe Racks Assembly (See Items 101-112 for Breakdown)	
	1001180197	Ref	PIPE RACKS ASSEMBLY	D
101	0240054	1	Pipe Rack Tube	
102	0700608	2	Bolt M6 x 16	
103	1060379	3	Cable, Lanyard	
104	3290606	2	Nut M6	
105	3421453	3	Pin	
106	3520176	2	Plug	
107	3760170	5	Ring	
108	4191706	1	Screw M6 x 12	
109	4240164	1	Strap	
110	4811700	4	Washer M6	
111	1001182847	2	Decal – Capacity Pipe Rack Kit	
112	1001180205	1	Pipe Rack	

FIGURE 4-37. PIPE RACK INSTALLATION (FACTORY INSTALLED)

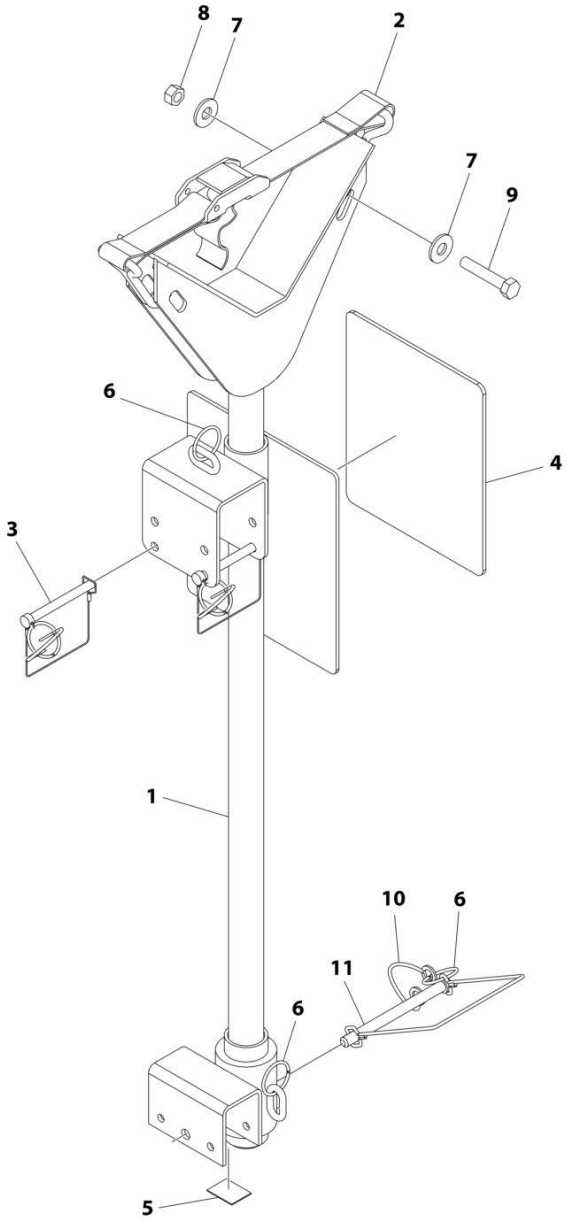


FIGURE 4-37. PIPE RACK INSTALLATION (FACTORY INSTALLED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001229469	Ref	PIPE RACK INSTALLATION	A
1	1001199189	2	Rack Pipe	
2	0480100	2	Tie-Strap	
3	1001187587	4	Pin	
4	1001229441	2	Decal - Pipe Rack Capacity	
5	4420062	3 ft/ 1m	Tape	
6	3760170	6	Ring	
7	4751500	8	Washer 5/16	
8	3311505	4	Nut 5/16	
9	0641514	4	Bolt 5/16 x 1-3/4	
10	1060379	2	Lanyard	
11	3421854	2	Pin	

FIGURE 4-38. QUIK WELDER INSTALLATION

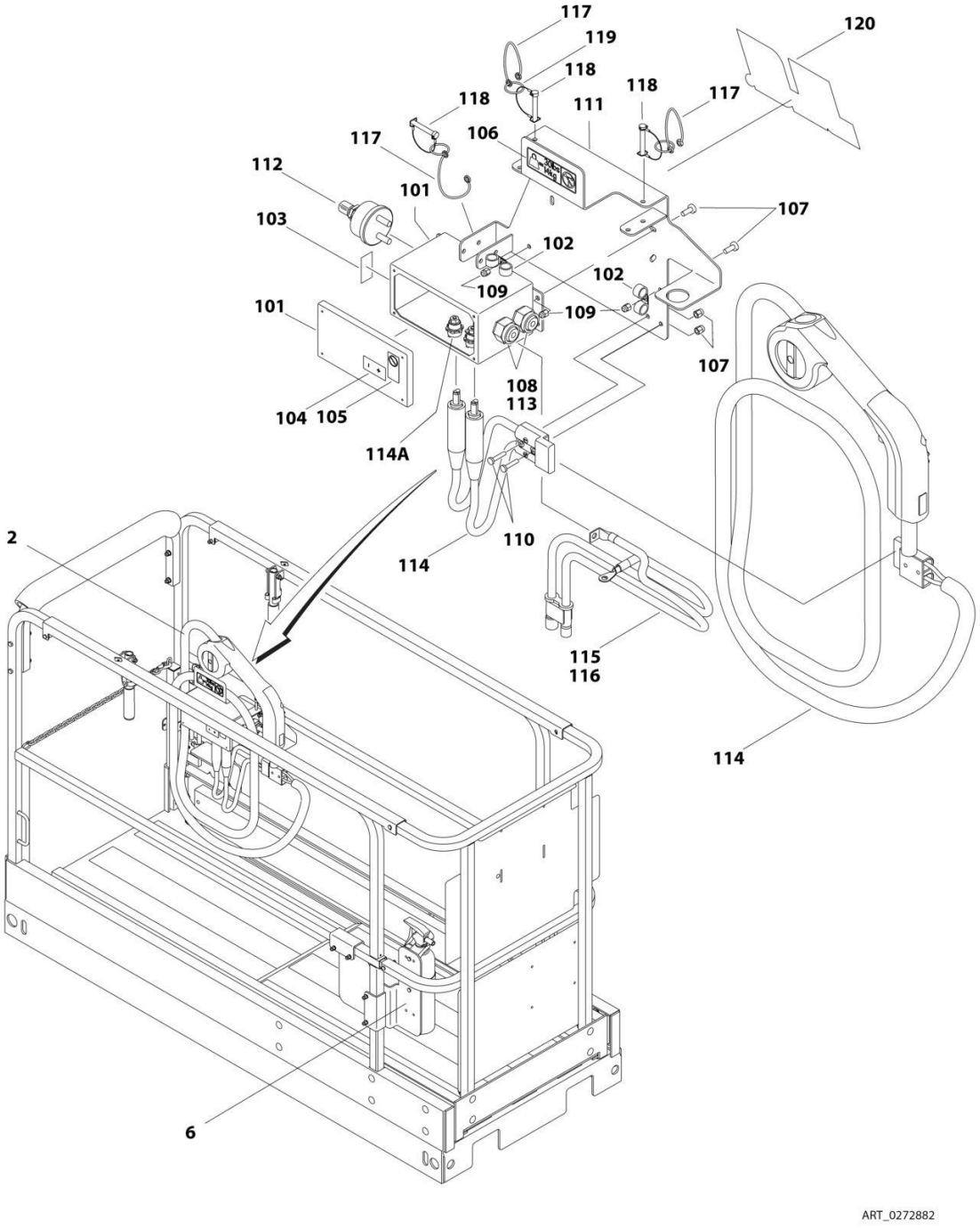


FIGURE 4-38. QUIK WELDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272882	Ref	QUIK WELDER INSTALLATION	D
2	2902334	1	Kit, Quik Welder (See Items 101-120 for Breakdown)	
6	0275075	1	Quik Welder Ready (See Separate Breakdown in this Section)	
	2902334	Ref	QUIK WELDER KIT	C
101	0861527	1	Box, Welder Disconnect	
102	1320224	4	Clamp	
103	1705213	1	Decal - On/Off	
104	1705214	1	Decal - Plus/Minus	
105	1705305	1	Decal - Weld Lead	
106	1705953	1	Decal - Weight	
107	3290606	8	Bolt M6 x 1	
108	3300048	2	Nut 3/4	
109	4010608	6	Screw M6 x 16	
110	4010614	2	Screw M6 x 30	
111	4340938	1	Mount, Quik Welder	
112	4360155	1	Switch, Master Disconnect	
113	4460328	2	Terminal, Connector	
114	4530021	1	Welder	
114A	7027303	2	Connector, Female	
115	4923048	1	Cable, Quik Welder Assembly	
116	1060957	1	Cable, Welder	
117	1060379	3	Cable, Lanyard	
118	3421453	3	Pin	
119	3760170	3	Ring	
120	1705754	1	Decal - JLG	

FIGURE 4-39. QUIK WELDER READY INSTALLATION

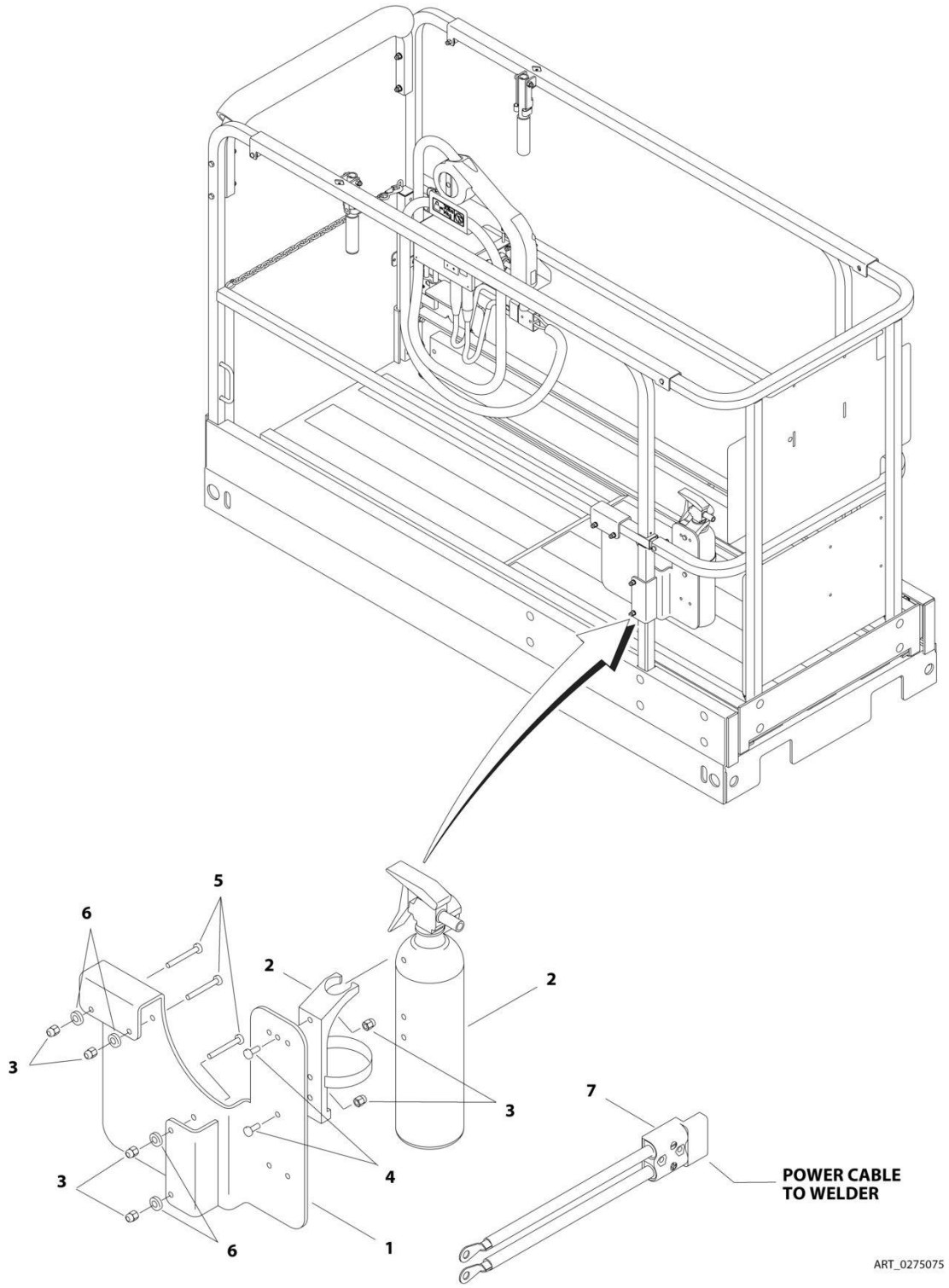


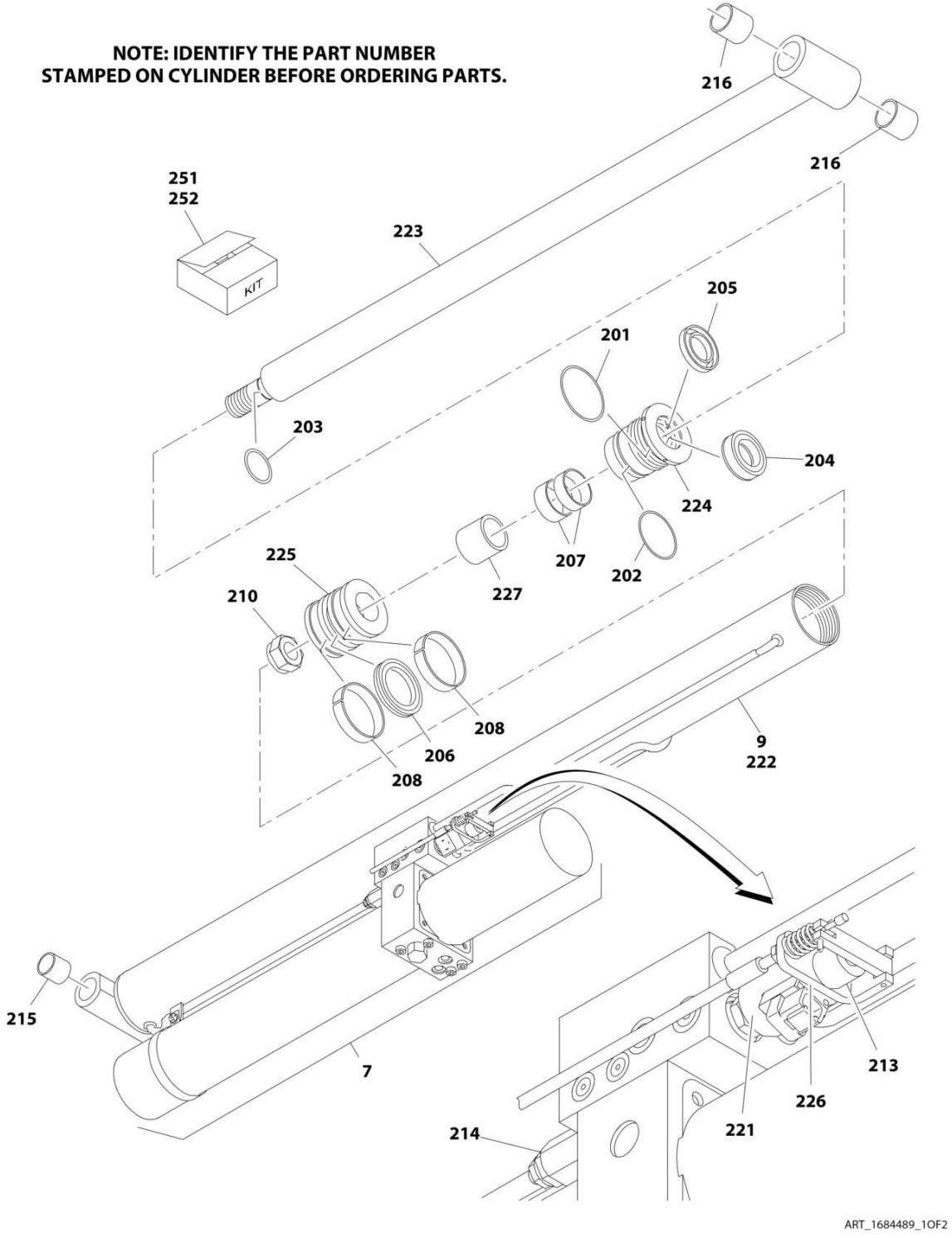
FIGURE 4-39. QUIK WELDER READY INSTALLATION

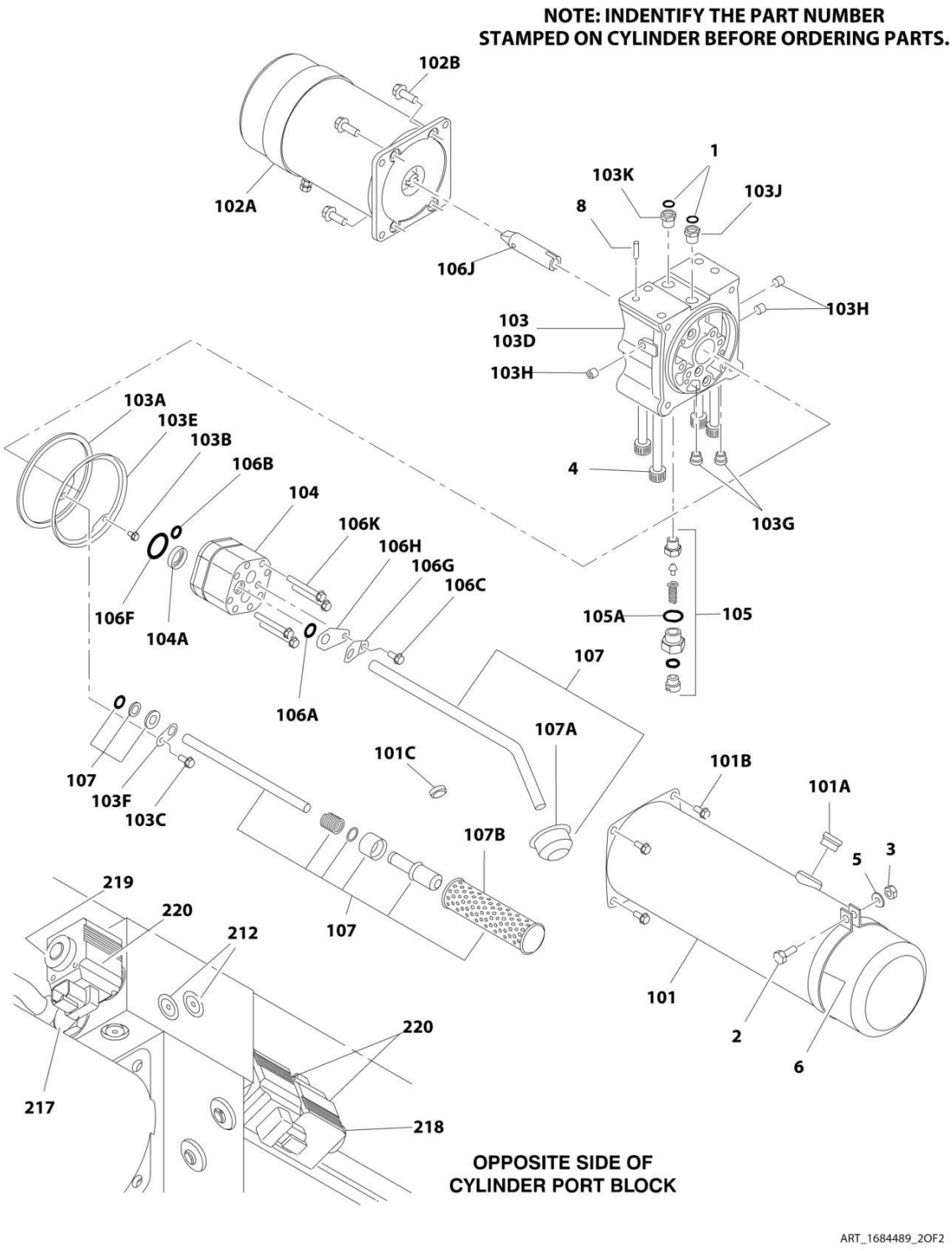
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275075	Ref	QUIK WELDER READY INSTALLATION	B
1	0903416	1	Bracket, Fire Extinguisher Mount	
2	2030010	1	Extinguisher, Fire	
3	3290606	6	Nut M6 x 1	
4	4010608	2	Screw M6 x 16	
5	4010618	4	Screw M6 x 50	
6	4811700	4	Washer M6	
7	4923052	1	Cable, Quik Welder Power	

SECTION 5 - CYLINDER

SECTION 5 - CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)




NOTE: INDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
102B
102A
1
103K
103J
8
106J
103H
103
103D
103H
4
103G
103A
103E
103B
106B
104
106K
106H
106G
106C
106F
104A
106A
105A
105
107
107A
101C
107
103F
103C
107B
107
101B
101A
5
3
101
2
6
219
220
212
220
217
218
OPPOSITE SIDE OF
CYLINDER PORT BLOCK
ART_1684489_2OF2

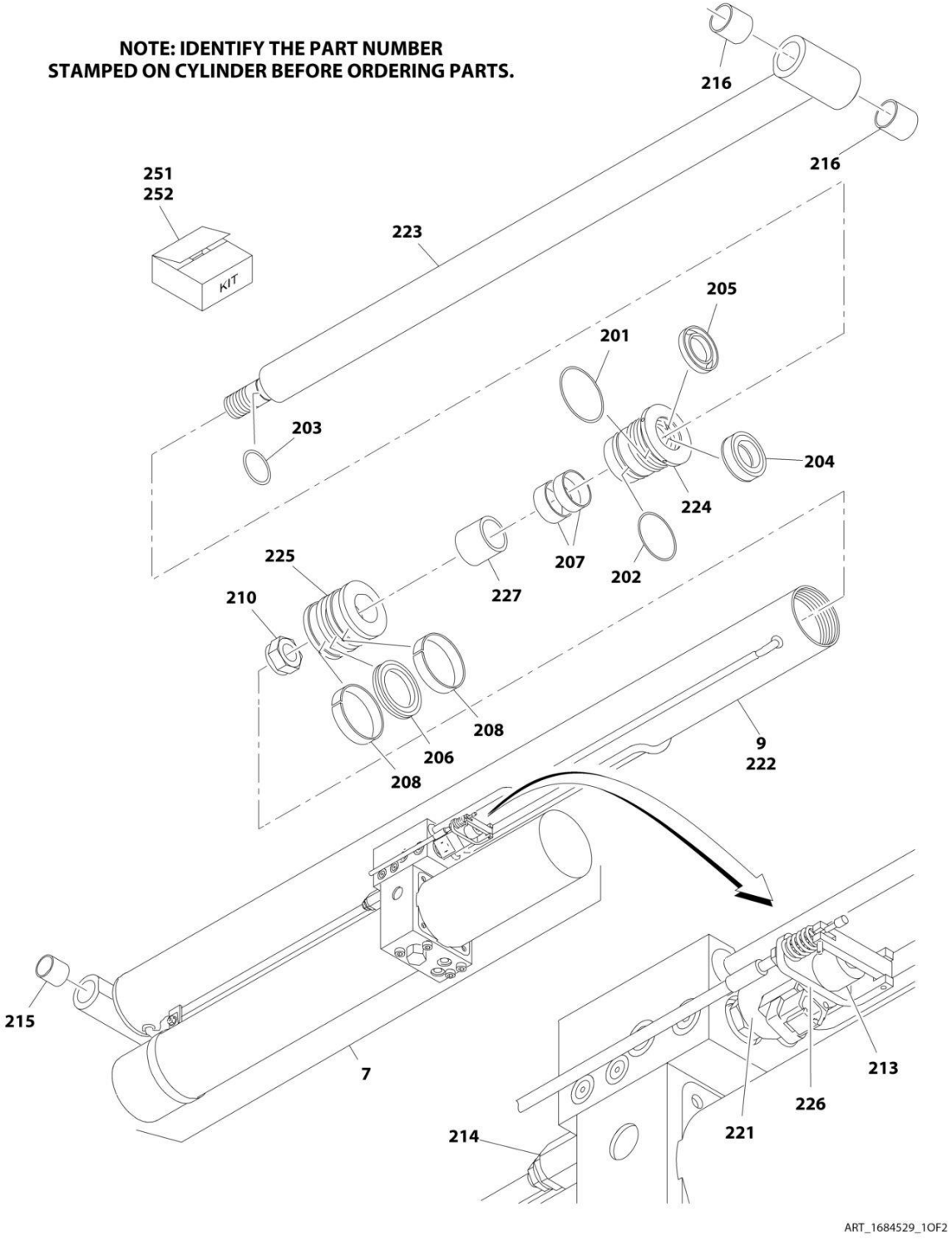
SECTION 5 - CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684489	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	7023577	2	O-Ring	
2	See Note	NSS	Capscrew (Note: Purchase Locally)	
3	See Note	NSS	Locknut (Note: Purchase Locally)	
4	7023589	4	Capscrew	
5	See Note	NSS	Flatwasher (Note: Purchase Locally)	
6	7023539	1	Clamp	
7	7023557	1	Power Pack Assembly - Complete (See Items 101-107B for Breakdown)	
8	70003646	2	Pin, Dowel	
8	70003645	2	Roll Pin	
9	See Note	NSS	Cylinder Assembly Only (Note: See Items 201-227 for Breakdown)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023557	Ref	Power Pack Assembly - Complete (1684489/1684529 Cylinders)	
101	7023578	1	Tank Kit (Note: Includes Tank and Items 101A-101C)	
101A	7023593	1	Plug, Fill	
101B	See Note	NSS	Screw (Note: Use Item 101)	
101C	See Note	NSS	Magnet (Note: Use Item 101)	
102A	7023579	1	Motor	
102A	70000659	1	Brush Kit - 7023579 Motor	
102B	See Note	NSS	Bolt M8 x 22 (Note: Purchase Locally or Use Item 106J)	
102B	See Note	NSS	Washer (Note: Purchase Locally or Use Item 106J)	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring (Note: Use Item 252)	
103B	See Note	NSS	Screw (Note: Use Item 103)	
103C	See Note	NSS	Screw (Note: Use Item 103)	
103D	See Note	NSS	Adapter (Note: Use Item 103)	
103E	See Note	1	Seal (Note: Use Item 252)	
103F	See Note	NSS	Retainer (Note: Use Item 103)	
103G	2220883	2	Plug	
103H	See Note	NSS	Plug (Note: Use Item 103)	
103J	See Note	NSS	Breather 9/16 - 12UNC (Note: Use Item 103)	
103K	See Note	NSS	Breather 9/16 - 18SAE (Note: Use Item 103)	
104	7023580	1	Pump (Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.)	
104A	See Note	1	Seal, Shaft (Note: Use Item 252)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	See Note	NSS	Seal (Note: Use Item 106J)	
106B	See Note	1	Seal (Note: Use Item 106J or 252)	
106C	See Note	NSS	Screw (Note: Use Item 106J)	
106F	See Note	1	Seal (Note: Use Item 106J or 252)	
106G	See Note	NSS	Tab, Locking (Note: Use Item 106J)	
106H	See Note	NSS	Retainer, Tube (Note: Use Item 106J)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106J	7023581	1	Coupler Kit (Includes Items 106A-106K)	
106K	See Note	NSS	Stud M8 x 110 (Note: Use Item 106J)	
106K	See Note	NSS	Washer (Note: Use Item 106J)	
106K	See Note	NSS	Nut M8 (Note: Use Item 106J)	
107	7023582	1	Tube Kit	
107A	See Note	NSS	Strainer (Note: Use Item 107)	
107B	7023576	1	Filter Element (Includes Seal)	
		Ref	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251)	
202	See Note	1	O-Ring (Note: Use Item 251)	
203	See Note	2	O-Ring (Note: Use Item 251)	
204	See Note	1	Seal (Note: Use Item 251)	
205	See Note	1	Wiper (Note: Use Item 251)	
206	See Note	1	Seal (Note: Use Item 251) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	2	Ring, Wear (Note: Use Item 251)	
208	See Note	2	Ring, Wear (Note: Use Item 251)	
210	See Note	NSS	Locknut (Note: Purchase Complete Assembly)	
211	2220883	4	Plug, Steel (SAE #4) (Not Shown)	
212	2220882	8	Plug, Steel (SAE #3)	
213	7023543	1	Valve, Proportional (Lift Down)	
214	7023542	1	Valve, Relief (Steer)	
215	0962006	2	Bushing	
216	0962181	2	Bushing	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	70000798	3	Coil (Steer and Lift Up)	
221	70000799	1	Coil (Lift Down)	
222	7023556	1	Barrel	
223	7023533	1	Rod	
224	7023532	1	Head	
225	7023531	1	Piston	
226	7023530	1	Emergency Release Assembly	
227	Not Required	0	Spacer	
		Ref	SEAL KIT OPTIONS	
251	7023528	1	Seal Kit - Cylinder (Includes Items 201-208)	
252	70001982	1	Seal Kit - Reservoir/Pump (Includes Items 103A, 103E, 104A, 106B & 106F)	

FIGURE 5-2. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (TEXAS HYDRAULICS)



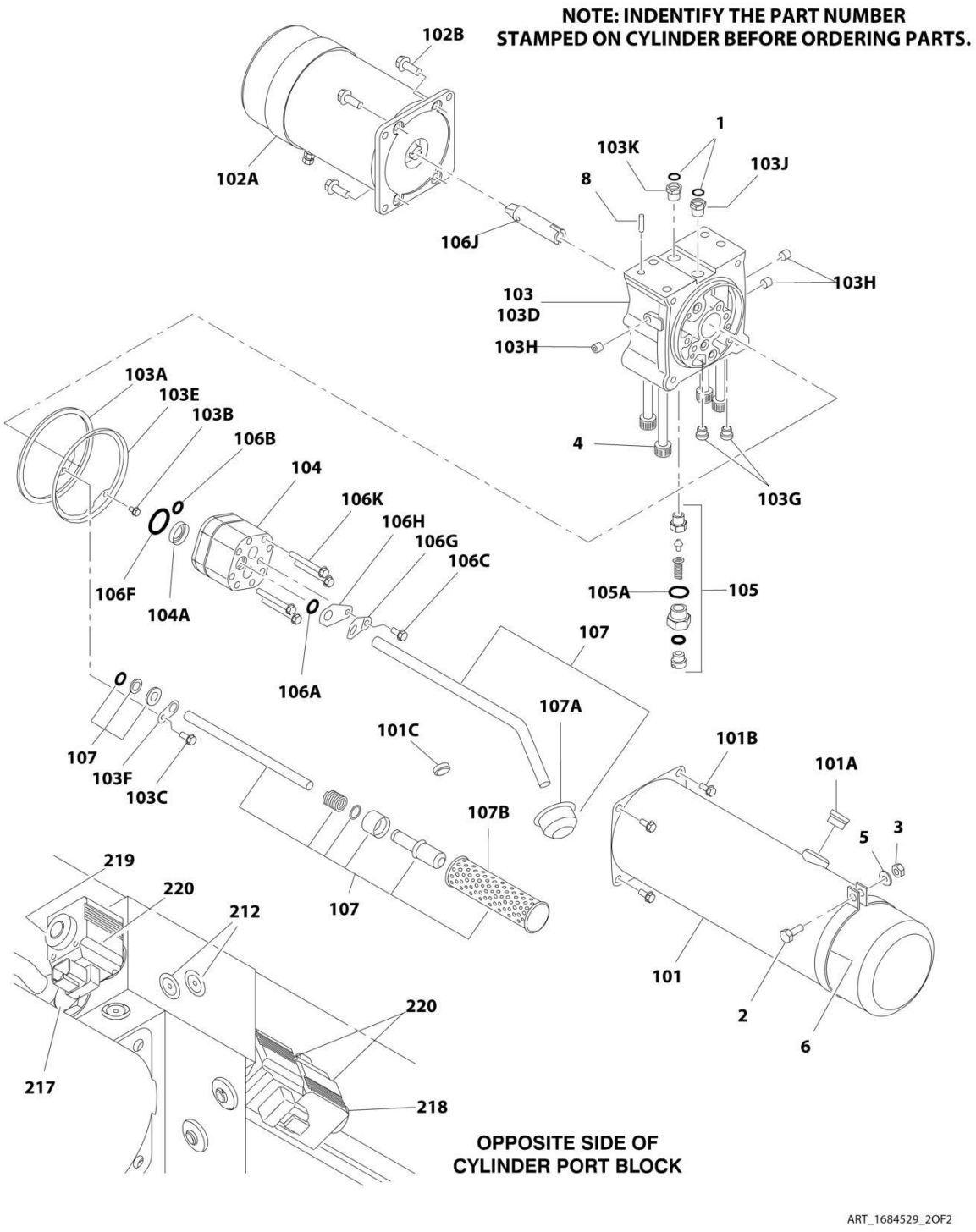
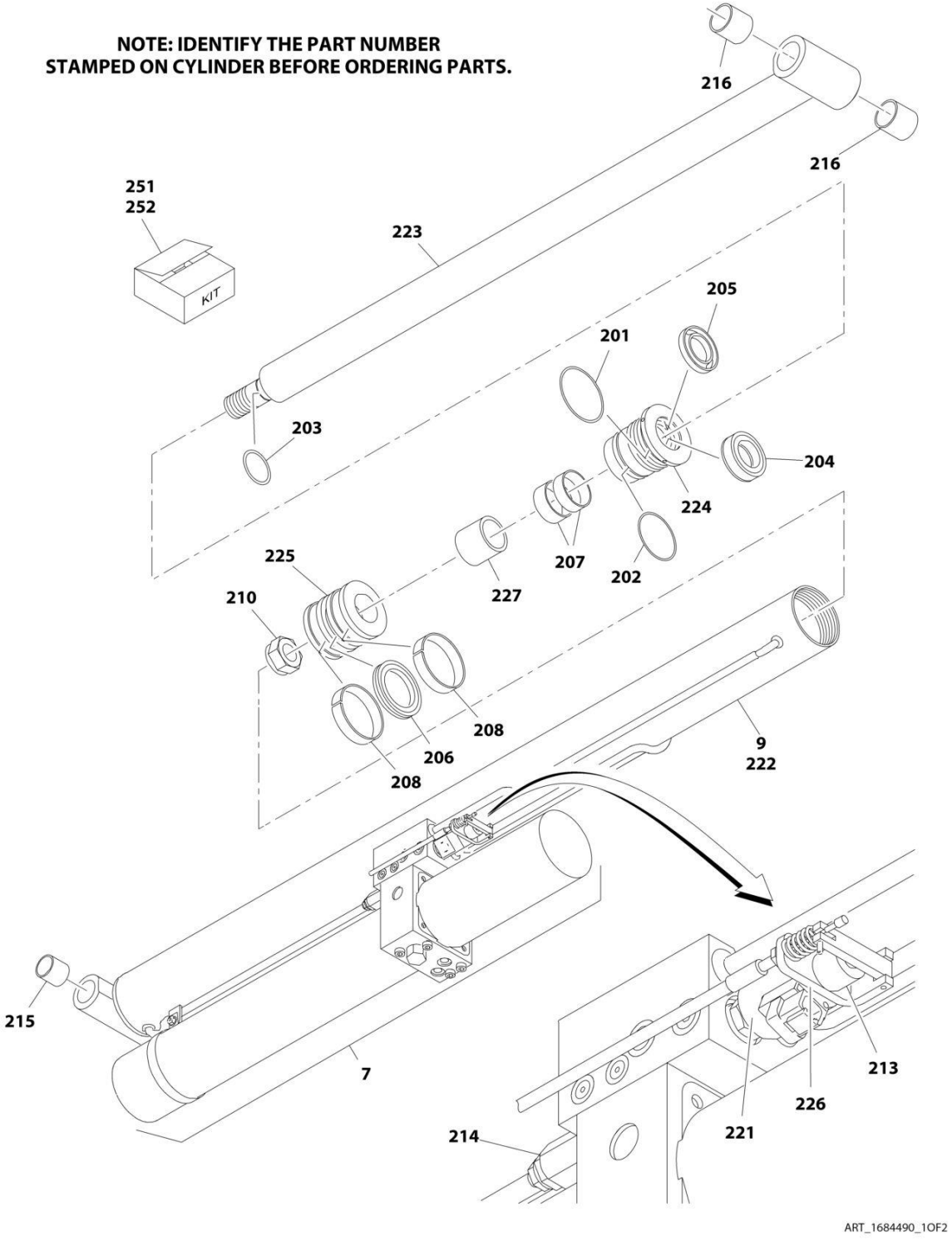

NOTE: INDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
102B
102A
1
103K
103J
8
106J
103H
103
103D
103H
4
103G
103A
103E
103B
106B
104
106K
106H
106G
106C
106F
104A
106A
105A
105
107
107A
101C
101B
101A
107
103F
103C
107B
5
3
219
220
212
107
101
2
6
220
217
218
OPPOSITE SIDE OF
CYLINDER PORT BLOCK
ART_1684529_2OF2

FIGURE 5-2. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (TEXAS HYDRAULICS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684529	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (TEXAS HYDRAULICS)	G
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	7023577	2	O-Ring	
2	See Note	NSS	Capscrew (Note: Purchase Locally)	
3	See Note	NSS	Locknut (Note: Purchase Locally)	
4	7023589	4	Capscrew	
5	See Note	NSS	Flatwasher (Note: Purchase Locally)	
6	7023539	1	Clamp	
7	7023557	1	Power Pack Assembly - Complete (See Items 101-107B for Breakdown)	
8	70003646	2	Pin, Dowel	
8	70003645	2	Roll Pin	
9	See Note	NSS	Cylinder Assembly Only (Note: See Items 201-227 for Breakdown)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023557	Ref	Power Pack Assembly - Complete (1684489/1684529 Cylinders)	
101	7023578	1	Tank Kit (Note: Includes Tank and Items 101A-101C)	
101A	7023593	1	Plug, Fill	
101B	See Note	NSS	Screw (Note: Use Item 101)	
101C	See Note	NSS	Magnet (Note: Use Item 101)	
102A	7023579	1	Motor	
102A	70000659	1	Brush Kit - 7023579 Motor	
102B	See Note	NSS	Bolt M8 x 22 (Note: Purchase Locally or Use Item 106J)	
102B	See Note	NSS	Washer (Note: Purchase Locally or Use Item 106J)	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring (Note: Use Item 252)	
103B	See Note	NSS	Screw (Note: Use Item 103)	
103C	See Note	NSS	Screw (Note: Use Item 103)	
103D	See Note	NSS	Adapter (Note: Use Item 103)	
103E	See Note	1	Seal (Note: Use Item 252)	
103F	See Note	NSS	Retainer (Note: Use Item 103)	
103G	2220883	2	Plug	
103H	See Note	NSS	Plug (Note: Use Item 103)	
103J	See Note	NSS	Breather 9/16 - 12UNC (Note: Use Item 103)	
103K	See Note	NSS	Breather 9/16 - 18SAE (Note: Use Item 103)	
104	7023580	1	Pump (Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.)	
104A	See Note	1	Seal, Shaft (Note: Use Item 252)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	See Note	NSS	Seal (Note: Use Item 106J)	
106B	See Note	1	Seal (Note: Use Item 106J or 252)	
106C	See Note	NSS	Screw (Note: Use Item 106J)	
106F	See Note	1	Seal (Note: Use Item 106J or 252)	
106G	See Note	NSS	Tab, Locking (Note: Use Item 106J)	
106H	See Note	NSS	Retainer, Tube (Note: Use Item 106J)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106J	7023581	1	Coupler Kit (Includes Item 106A-106K)	
106K	See Note	NSS	Stud M8 x 110 (Note: Use Item 106J)	
106K	See Note	NSS	Washer (Note: Use Item 106J)	
106K	See Note	NSS	Nut M8 (Note: Use Item 106J)	
107	7023582	1	Tube Kit	
107A	See Note	NSS	Strainer (Note: Use Item 107)	
107B	7023576	1	Filter Element (Includes Seal)	
		Ref	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251)	
202	See Note	1	O-Ring (Note: Use Item 251)	
203	See Note	2	O-Ring (Note: Use Item 251)	
204	See Note	1	Seal (Note: Use Item 251)	
205	See Note	1	Wiper (Note: Use Item 251)	
206	See Note	1	Seal (Note: Use Item 251) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	2	Ring, Wear (Note: Use Item 251)	
208	See Note	2	Ring, Wear (Note: Use Item 251)	
210	See Note	NSS	Locknut (Note: Purchase Complete Assembly)	
211	2220883	4	Plug, Steel (SAE #4) (Not Shown)	
212	2220882	8	Plug, Steel (SAE #3)	
213	7023543	1	Valve, Proportional (Lift Down)	
214	7023542	1	Valve, Relief (Steer)	
215	0962006	2	Bushing	
216	0962181	2	Bushing	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	70000798	3	Coil (Steer and Lift Up)	
221	70000799	1	Coil (Lift Down)	
222	7023556	1	Barrel	
223	7023533	1	Rod	
224	7023532	1	Head	
225	7023531	1	Piston	
226	7023530	1	Emergency Release Assembly	
227	Not Required	0	Spacer	
		Ref	SEAL KIT OPTIONS	
251	7023528	1	Seal Kit - Cylinder (Includes Items 201-208)	
252	70001982	1	Seal Kit - Reservoir/Pump (Includes Items 103A, 103E, 104A, 106B & 106F)	

FIGURE 5-3. LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)



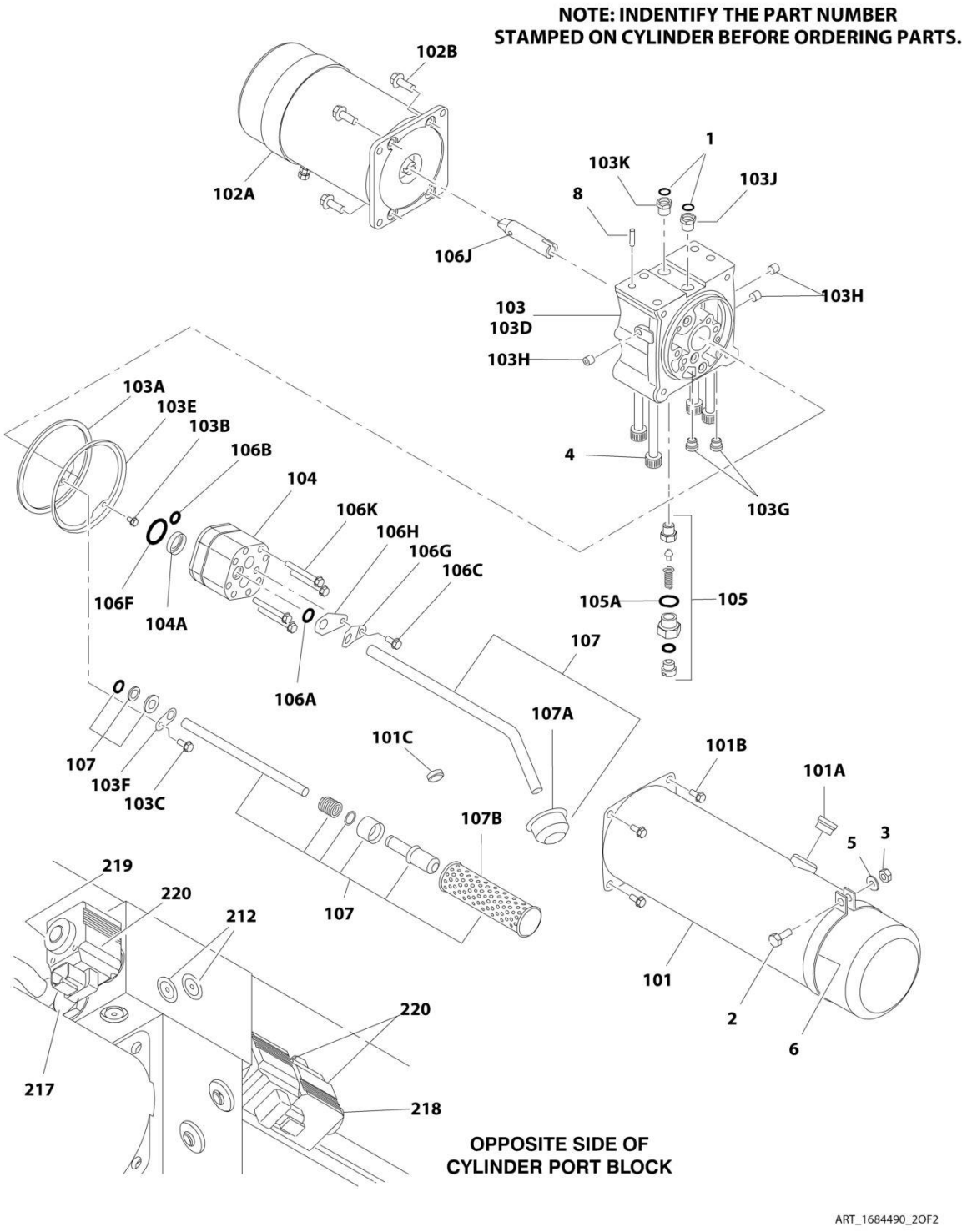
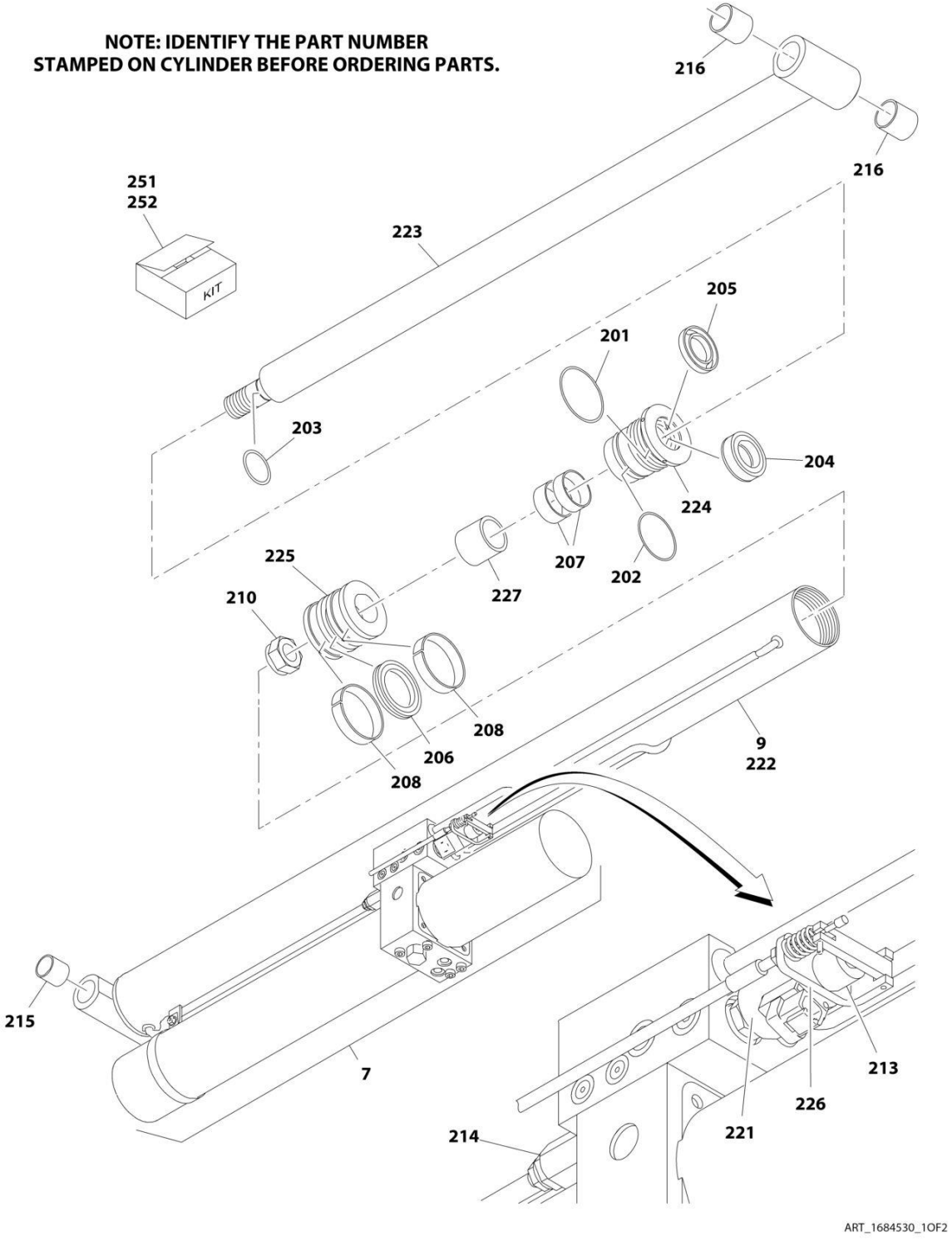

NOTE: INDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
102B
102A
1
103K
103J
8
106J
103H
103
103D
103H
4
103G
103A
103E
103B
106B
104
106K
106H
106G
106C
106F
104A
106A
105A
105
107
107A
101C
107
103F
103C
107B
107
101B
101A
5
3
101
2
6
219
220
212
220
217
218
OPPOSITE SIDE OF
CYLINDER PORT BLOCK
ART_1684490_2OF2

FIGURE 5-3. LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684490	Ref	LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	7023577	2	O-Ring	
2	See Note	NSS	Capscrew (Note: Purchase Locally)	
3	See Note	NSS	Locknut (Note: Purchase Locally)	
4	7023589	4	Capscrew	
5	See Note	NSS	Flatwasher (Note: Purchase Locally)	
6	7023539	1	Clamp	
7	7023535	1	Power Pack Assembly - Complete (See Items 101-107B for Breakdown)	
8	70003646	2	Pin, Dowel	
8	70003645	2	Roll Pin	
9	See Note	NSS	Cylinder Assembly Only (Note: See Items 201-227 for Breakdown)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023535	Ref	Power Pack Assembly - Complete (1684490/1684530 Cylinders)	
101	7023583	1	Tank Kit (Note: Includes Tank and Items 101A-101C)	
101A	7023593	1	Plug, Fill	
101B	See Note	NSS	Screw (Note: Use Item 101)	
101C	See Note	NSS	Magnet (Note: Use Item 101)	
102A	7023579	1	Motor	
102A	70000659	1	Brush Kit - 7023579 Motor	
102B	See Note	NSS	Bolt M8 x 22 (Note: Purchase Locally or Use Item 106J)	
102B	See Note	NSS	Washer (Note: Purchase Locally or Use Item 106J)	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring (Note: Use Item 252)	
103B	See Note	NSS	Screw (Note: Use Item 103)	
103C	See Note	NSS	Screw (Note: Use Item 103)	
103D	See Note	NSS	Adapter (Note: Use Item 103)	
103E	See Note	1	Seal (Note: Use Item 252)	
103F	See Note	NSS	Retainer (Note: Use Item 103)	
103G	2220883	2	Plug	
103H	See Note	NSS	Plug (Note: Use Item 103)	
103J	See Note	NSS	Breather 9/16 - 12UNC (Note: Use Item 103)	
103K	See Note	NSS	Breather 9/16 - 18SAE (Note: Use Item 103)	
104	7023580	1	Pump (Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.)	
104A	See Note	1	Seal, Shaft (Note: Use Item 252)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	See Note	NSS	Seal (Note: Use Item 106J)	
106B	See Note	1	Seal (Note: Use Item 106J or 252)	
106C	See Note	NSS	Screw (Note: Use Item 106J)	
106F	See Note	1	Seal (Note: Use Item 106J or 252)	
106G	See Note	NSS	Tab, Locking (Note: Use Item 106J)	
106H	See Note	NSS	Retainer, Tube (Note: Use Item 106J)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106J	7023581	1	Coupler Kit (Includes Items 106A-106K)	
106K	See Note	NSS	Stud M8 x 110 (Note: Use Item 106J)	
106K	See Note	NSS	Washer (Note: Use Item 106J)	
106K	See Note	NSS	Nut M8 (Note: Use Item 106J)	
107	7023584	1	Tube Kit	
107A	See Note	NSS	Strainer (Note: Use Item 107)	
107B	7023576	1	Filter Element (Includes Seal)	
		Ref	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251)	
202	See Note	1	O-Ring (Note: Use Item 251)	
203	See Note	2	O-Ring (Note: Use Item 251)	
204	See Note	1	Seal (Note: Use Item 251)	
205	See Note	1	Wiper (Note: Use Item 251)	
206	See Note	1	Seal (Note: Use Item 251) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	2	Ring, Wear (Note: Use Item 251)	
208	See Note	2	Ring, Wear (Note: Use Item 251)	
210	See Note	NSS	Locknut (Note: Purchase Complete Assembly)	
211	2220883	4	Plug, Steel (SAE #4) (Not Shown)	
212	2220882	8	Plug, Steel (SAE #3)	
213	7023543	1	Valve, Proportional (Lift Down)	
214	7023542	1	Valve, Relief (Steer)	
215	0962006	2	Bushing	
216	0962181	2	Bushing	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	70000798	3	Coil (Steer and Lift Up)	
221	70000799	1	Coil (Lift Down)	
222	7023534	1	Barrel	
223	7023533	1	Rod	
224	7023532	1	Head	
225	7023531	1	Piston	
226	7023530	1	Emergency Release Assembly	
227	7023529	1	Spacer	
		Ref	SEAL KIT OPTIONS	
251	7023528	1	Seal Kit - Cylinder (Includes Items 201-208)	
252	70001982	1	Seal Kit - Reservoir/Pump (Includes Items 103A, 103E, 104A, 106B & 106F)	

FIGURE 5-4. LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (TEXAS HYDRAULICS)



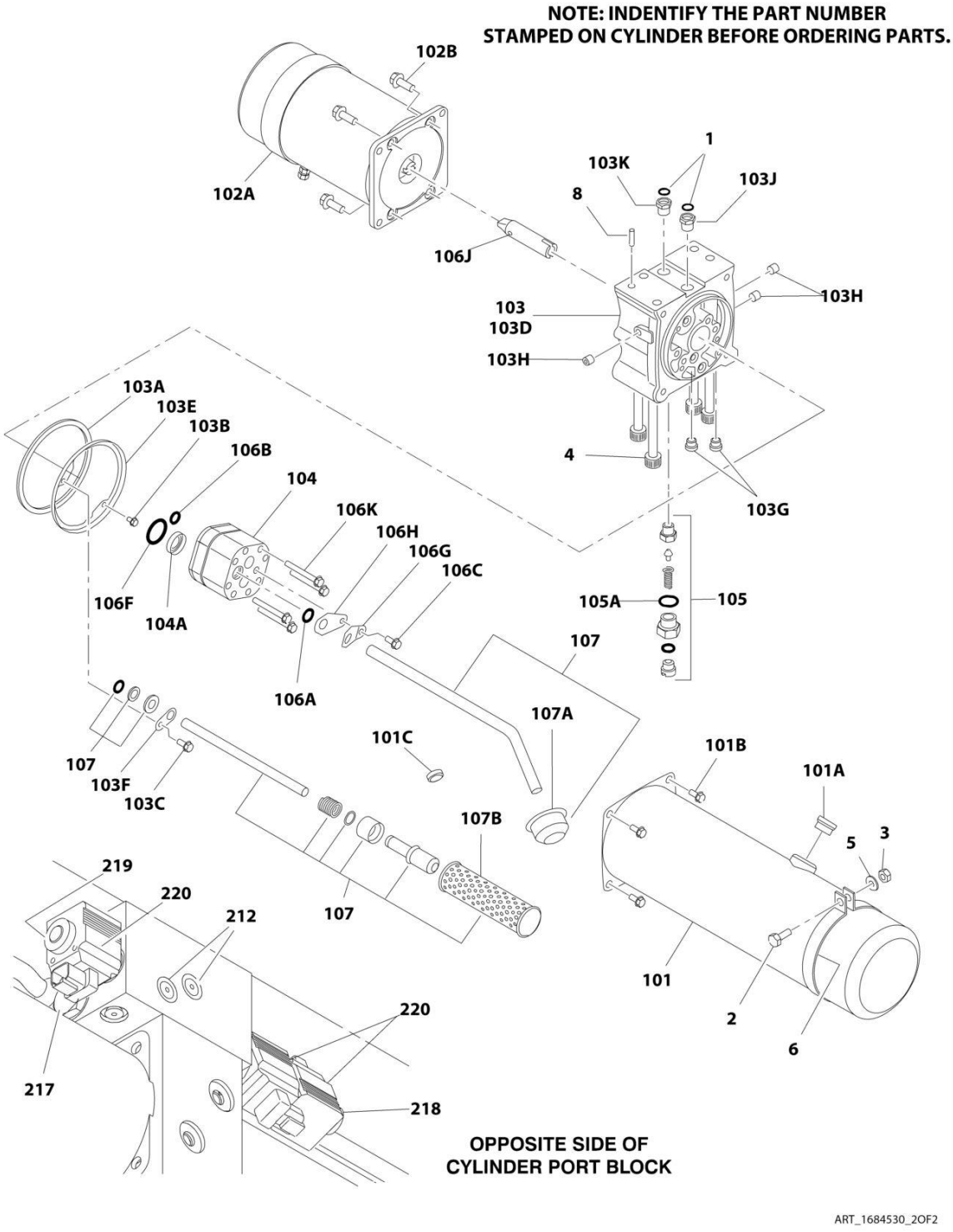

NOTE: INDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
102B
102A
1
103K
103J
8
106J
103H
103
103D
103H
4
103G
103A
103E
103B
106B
104
106K
106H
106G
106C
106F
104A
106A
105A
105
107
107A
101C
107
103F
103C
107B
101B
101A
5
3
219
220
212
107
101
2
6
220
217
218
OPPOSITE SIDE OF
CYLINDER PORT BLOCK
ART_1684530_2OF2

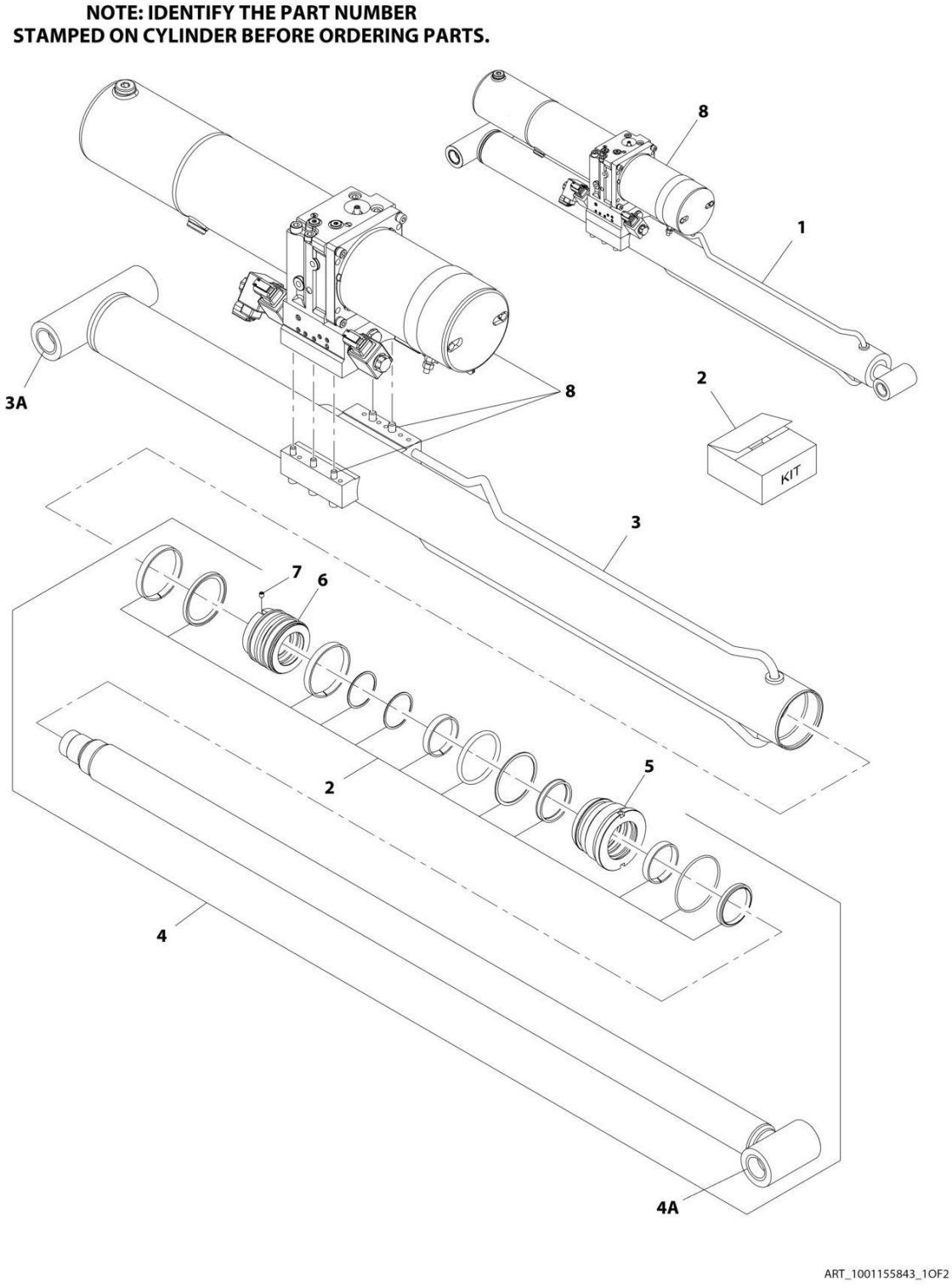
FIGURE 5-4. LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (TEXAS HYDRAULICS)

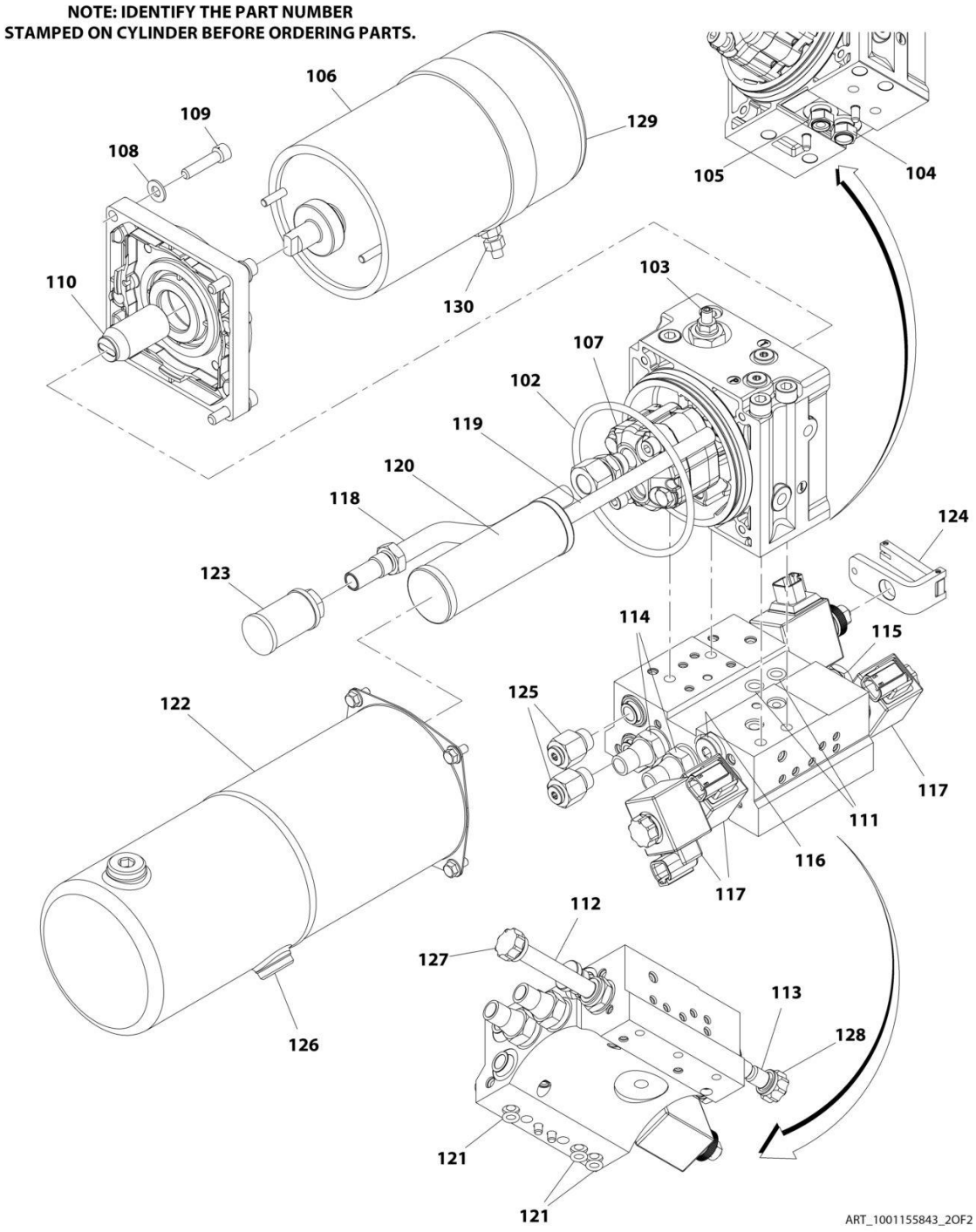
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684530	Ref	LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (TEXAS HYDRAULICS)	G
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	7023577	2	O-Ring	
2	See Note	NSS	Capscrew (Note: Purchase Locally)	
3	See Note	NSS	Locknut (Note: Purchase Locally)	
4	7023589	4	Capscrew	
5	See Note	NSS	Flatwasher (Note: Purchase Locally)	
6	7023539	1	Clamp	
7	7023535	1	Power Pack Assembly - Complete (See Items 101-107B for Breakdown)	
8	70003646	2	Pin, Dowel	
8	70003645	2	Roll Pin	
9	See Note	NSS	Cylinder Assembly Only (Note: See Items 201-227 for Breakdown)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023535	Ref	Power Pack Assembly - Complete (1684490/1684530 Cylinders)	
101	7023583	1	Tank Kit (Note: Includes Tank and Items 101A-101C)	
101A	7023593	1	Plug, Fill	
101B	See Note	NSS	Screw (Note: Use Item 101)	
101C	See Note	NSS	Magnet (Note: Use Item 101)	
102A	7023579	1	Motor	
102A	70000659	1	Brush Kit - 7023579 Motor	
102B	See Note	NSS	Bolt M8 x 22 (Note: Purchase Locally or Use Item 106J)	
102B	See Note	NSS	Washer (Note: Purchase Locally or Use Item 106J)	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring (Note: Use Item 252)	
103B	See Note	NSS	Screw (Note: Use Item 103)	
103C	See Note	NSS	Screw (Note: Use Item 103)	
103D	See Note	NSS	Adapter (Note: Use Item 103)	
103E	See Note	1	Seal (Note: Use Item 252)	
103F	See Note	NSS	Retainer (Note: Use Item 103)	
103G	2220883	2	Plug	
103H	See Note	NSS	Plug (Note: Use Item 103)	
103J	See Note	NSS	Breather 9/16in - 12UNC (Note: Use Item 103)	
103K	See Note	NSS	Breather 9/16in - 18SAE (Note: Use Item 103)	
104	7023580	1	Pump (Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.)	
104A	See Note	1	Seal, Shaft (Note: Use Item 252)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	See Note	NSS	Seal (Note: Use Item 106J)	
106B	See Note	1	Seal (Note: Use Item 106J or 252)	
106C	See Note	NSS	Screw (Note: Use Item 106J)	
106F	See Note	1	Seal (Note: Use Item 106J or 252)	
106G	See Note	NSS	Tab, Locking (Note: Use Item 106J)	
106H	See Note	NSS	Retainer, Tube (Note: Use Item 106J)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106J	7023581	1	Coupler Kit (Includes Items 106A-106K)	
106K	See Note	NSS	Stud M8 x 110 (Note: Use Item 106J)	
106K	See Note	NSS	Washer (Note: Use Item 106J)	
106K	See Note	NSS	Nut M8 (Note: Use Item 106J)	
107	7023584	1	Tube Kit	
107A	See Note	NSS	Strainer (Note: Use Item 107)	
107B	7023576	1	Filter Element (Includes Seal)	
		Ref	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251)	
202	See Note	1	O-Ring (Note: Use Item 251)	
203	See Note	2	O-Ring (Note: Use Item 251)	
204	See Note	1	Seal (Note: Use Item 251)	
205	See Note	1	Wiper (Note: Use Item 251)	
206	See Note	1	Seal (Note: Use Item 251) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	2	Ring, Wear (Note: Use Item 251)	
208	See Note	2	Ring, Wear (Note: Use Item 251)	
210	See Note	NSS	Locknut (Note: Purchase Complete Assembly)	
211	2220883	4	Plug, Steel (SAE #4) (Not Shown)	
212	2220882	8	Plug, Steel (SAE #3)	
213	7023543	1	Valve, Proportional (Lift Down)	
214	7023542	1	Valve, Relief (Steer)	
215	0962006	2	Bushing	
216	0962181	2	Bushing	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	70000798	3	Coil (Steer and Lift Up)	
221	70000799	1	Coil (Lift Down)	
222	7023534	1	Barrel	
223	7023533	1	Rod	
224	7023532	1	Head	
225	7023531	1	Piston	
226	7023530	1	Emergency Release Assembly	
227	7023529	1	Spacer	
		Ref	SEAL KIT OPTIONS	
251	7023528	1	Seal Kit - Cylinder (Includes Items 201-208)	
252	70001982	1	Seal Kit - Reservoir/Pump (Includes Items 103A, 103E, 104A, 106B & 106F)	

SECTION 5 - CYLINDER

FIGURE 5-5. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (SERTA)




NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
106
109
108
129
105
104
110
130
103
107
102
119
120
118
124
123
114
115
125
122
117
111
116
117
112
127
113
128
126
121
121
ART_1001155843_2OF2

SECTION 5 - CYLINDER

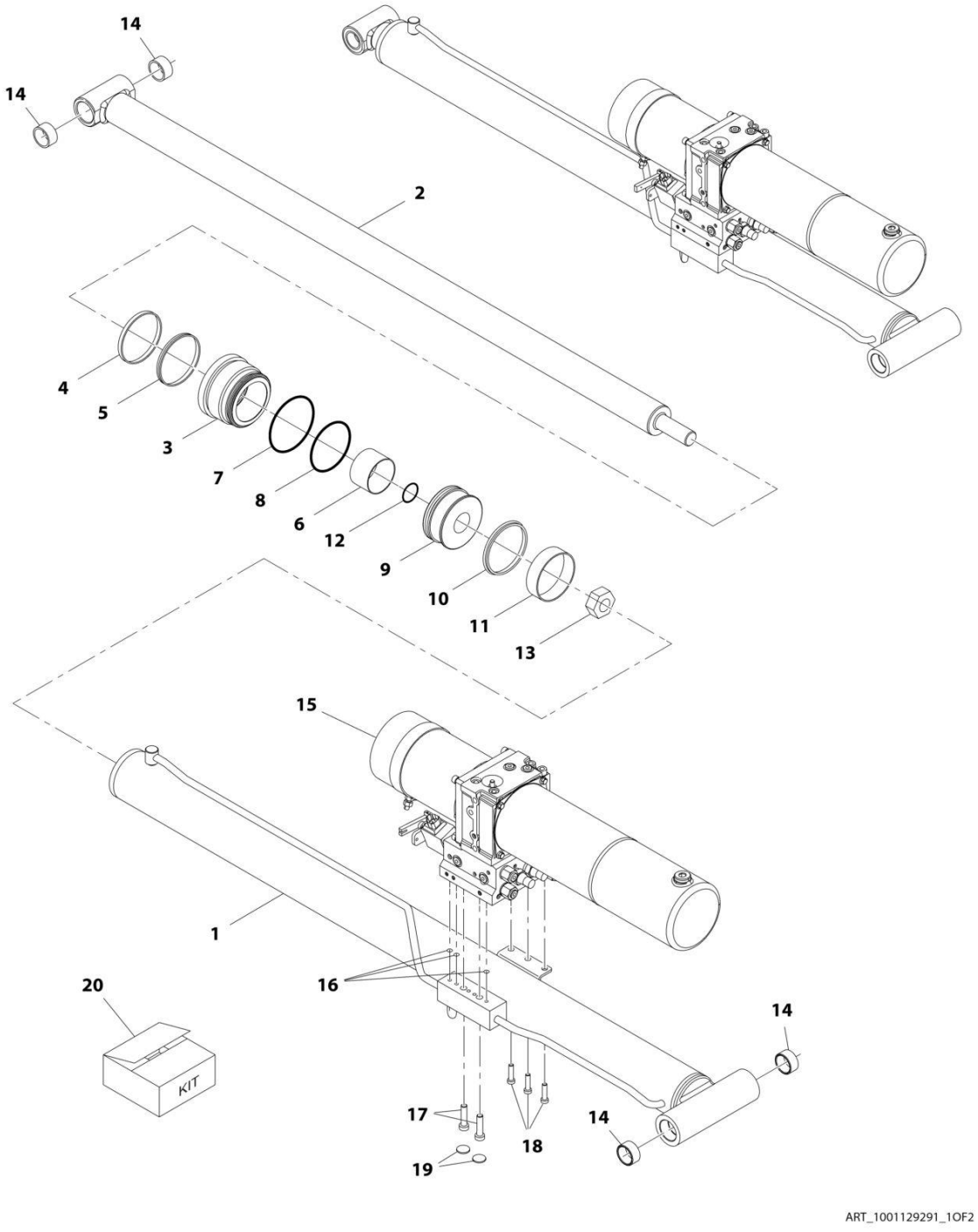
FIGURE 5-5. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (SERTA)

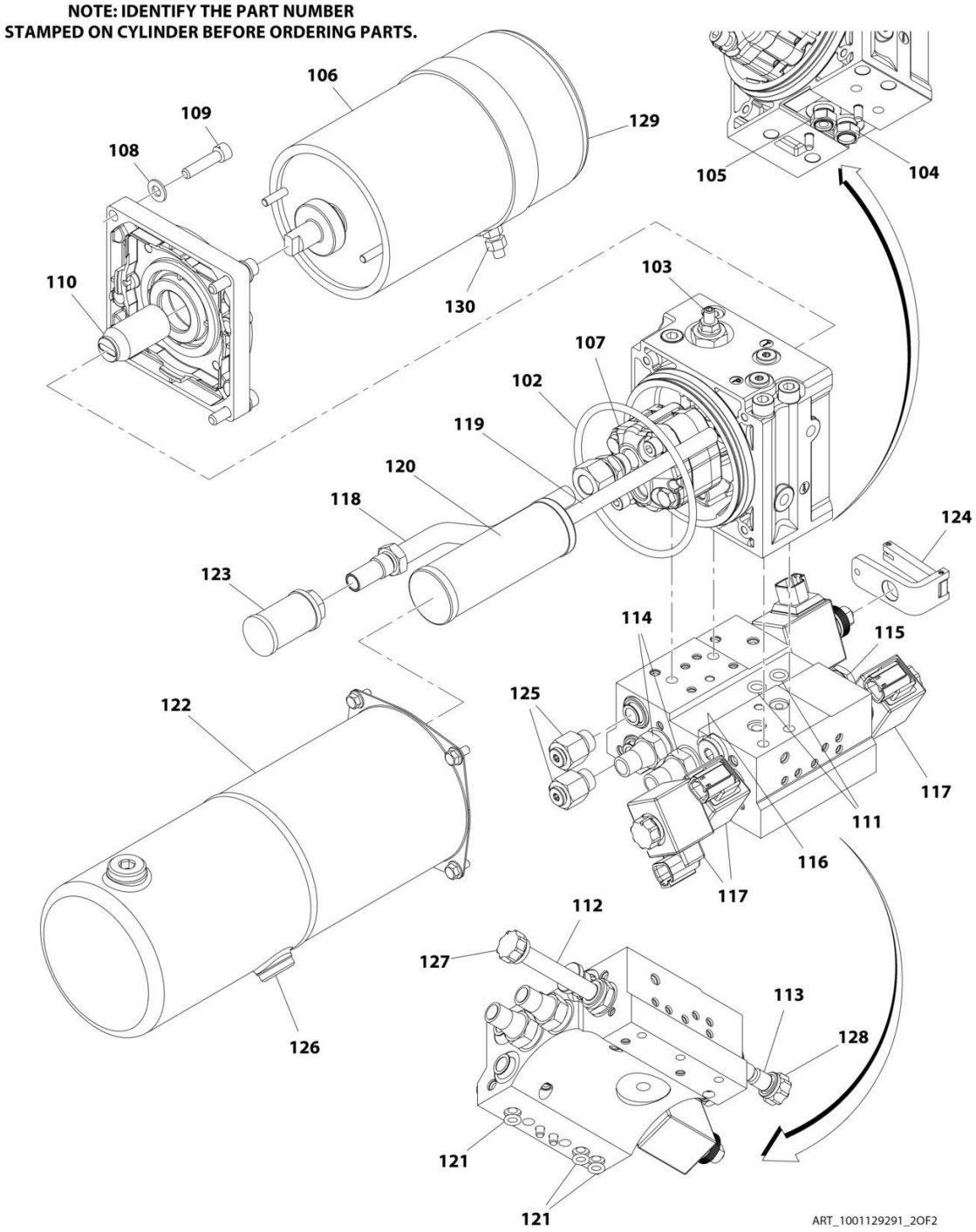
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155843	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (SERTA)	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004733	1	Cylinder Assembly Less Powerpack	
2	70004736	1	Seal Kit	
3	70004731	1	Barrel (Includes Item 3A)	
3A	0962006	2	Bushing	
4	70004734	1	Rod (Includes Items 2, 4A, 5, 6 & 7)	
4A	0962181	2	Bushing	
5	70006092	1	Head, Cylinder	
6	70006091	1	Piston	
7	70020438	1	Screw	
8	70004949	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004949	Ref	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003704	3	Coil	
118	70004947	1	Pipe, Suction	
119	70004948	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005241	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

SECTION 5 - CYLINDER

FIGURE 5-6. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (SH-PAC)

NOTE: IDENTIFY THE PART NUMBER STAMPED ON CYLINDER BEFORE ORDERING PARTS.




NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
106
109
108
129
105
104
110
130
103
107
102
119
120
118
124
123
114
115
125
122
117
111
116
117
112
127
113
128
126
121
121
ART_1001129291_2OF2

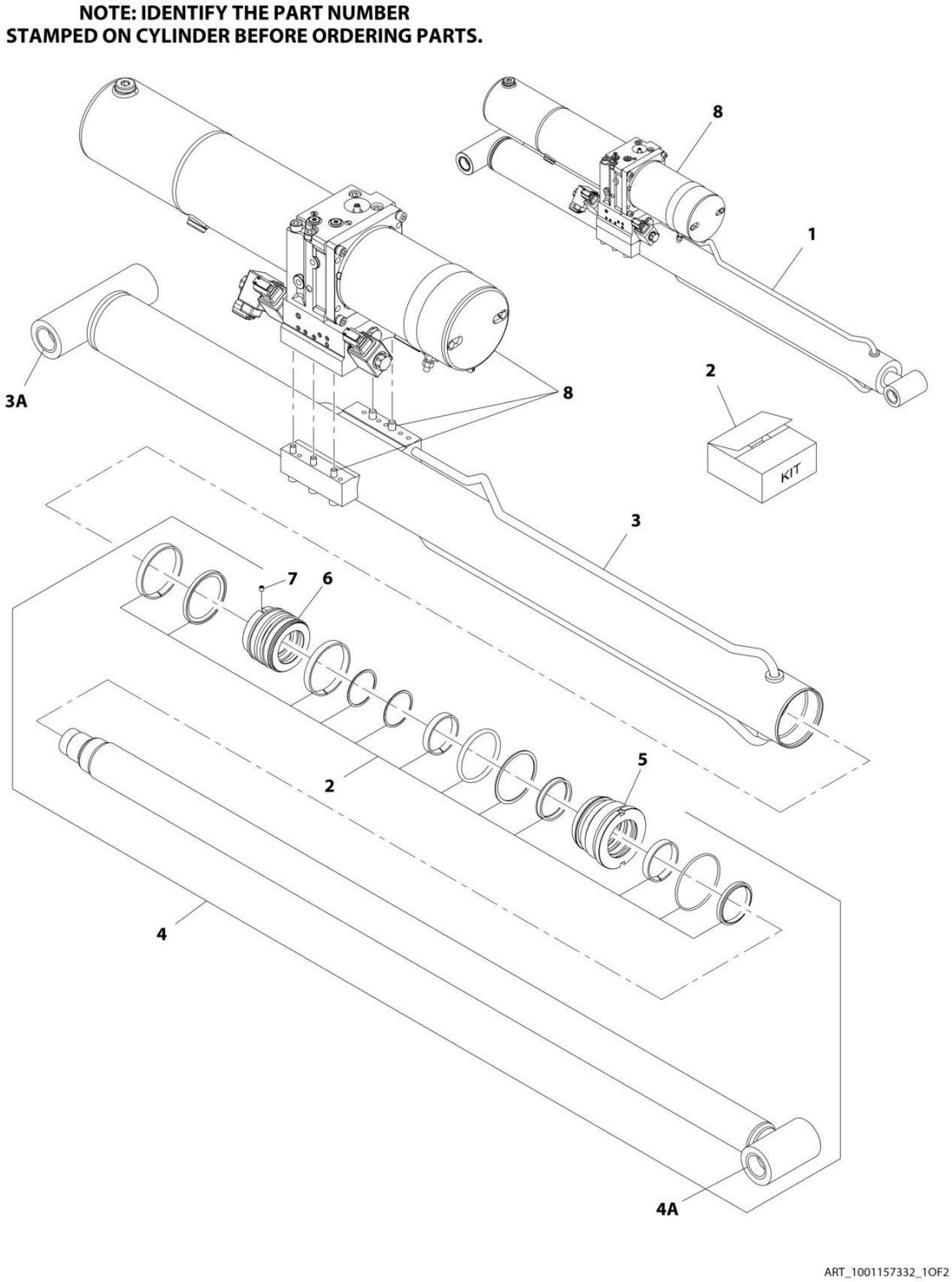
SECTION 5 - CYLINDER

FIGURE 5-6. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129291	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (SH-PAC)	G
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004634	1	Barrel	
2	70004635	1	Rod	
3	70004636	1	Head, Cylinder	
4	See Note	NSS	Seal, Dust (Note: Use Item 20)	
5	See Note	NSS	Seal (Note: Use Item 20)	
6	70004637	1	Bearing	
7	See Note	1	O-Ring (Note: Use Item 20)	
8	See Note	1	O-Ring (Note: Use Item 20)	
9	70004638	1	Piston	
10	See Note	NSS	Seal (Note: Use Item 20)	
11	See Note	NSS	Ring, Wear (Note: Use Item 20)	
12	See Note	NSS	O-Ring (Note: Use Item 20)	
13	70003663	1	Nut	
14	0962181	2	Bushing (Rod End)	
14	0962006	2	Bushing (Barrel End)	
15	70004949	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
16	See Note	1	O-Ring (Note: Use Item 20)	
17	70004639	2	Capscrew M10 x 50	
18	70004625	3	Capscrew M8 x 20	
19	70004626	2	Plug, Extension	
20	70004640	1	Seal Kit - Cylinder (Includes Items 4, 5, 7, 8, 10, 11, 12 & 16)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004949	1	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004947	1	Pipe, Suction	
119	70004948	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005241	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

FIGURE 5-7. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SERTA)



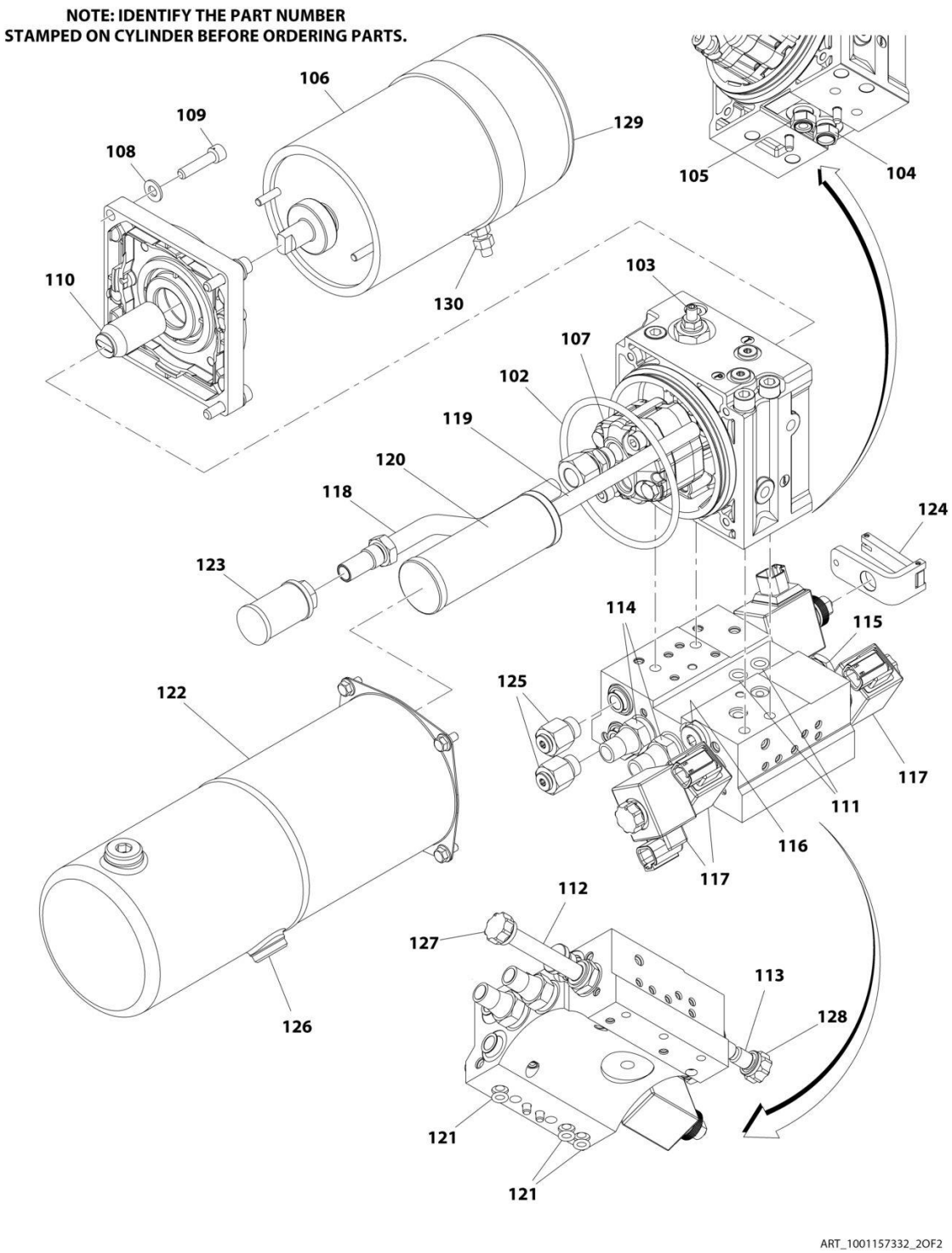
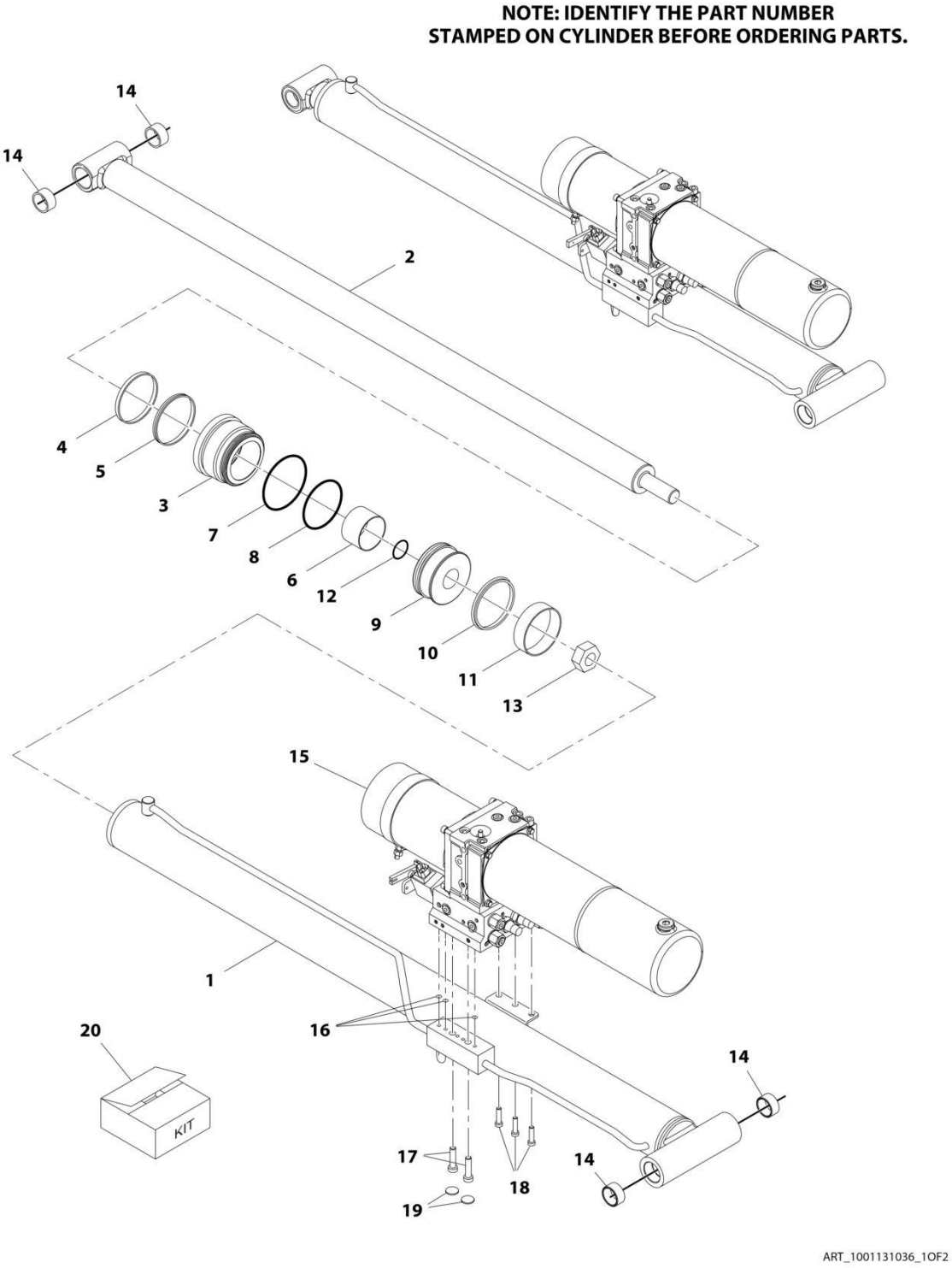

NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
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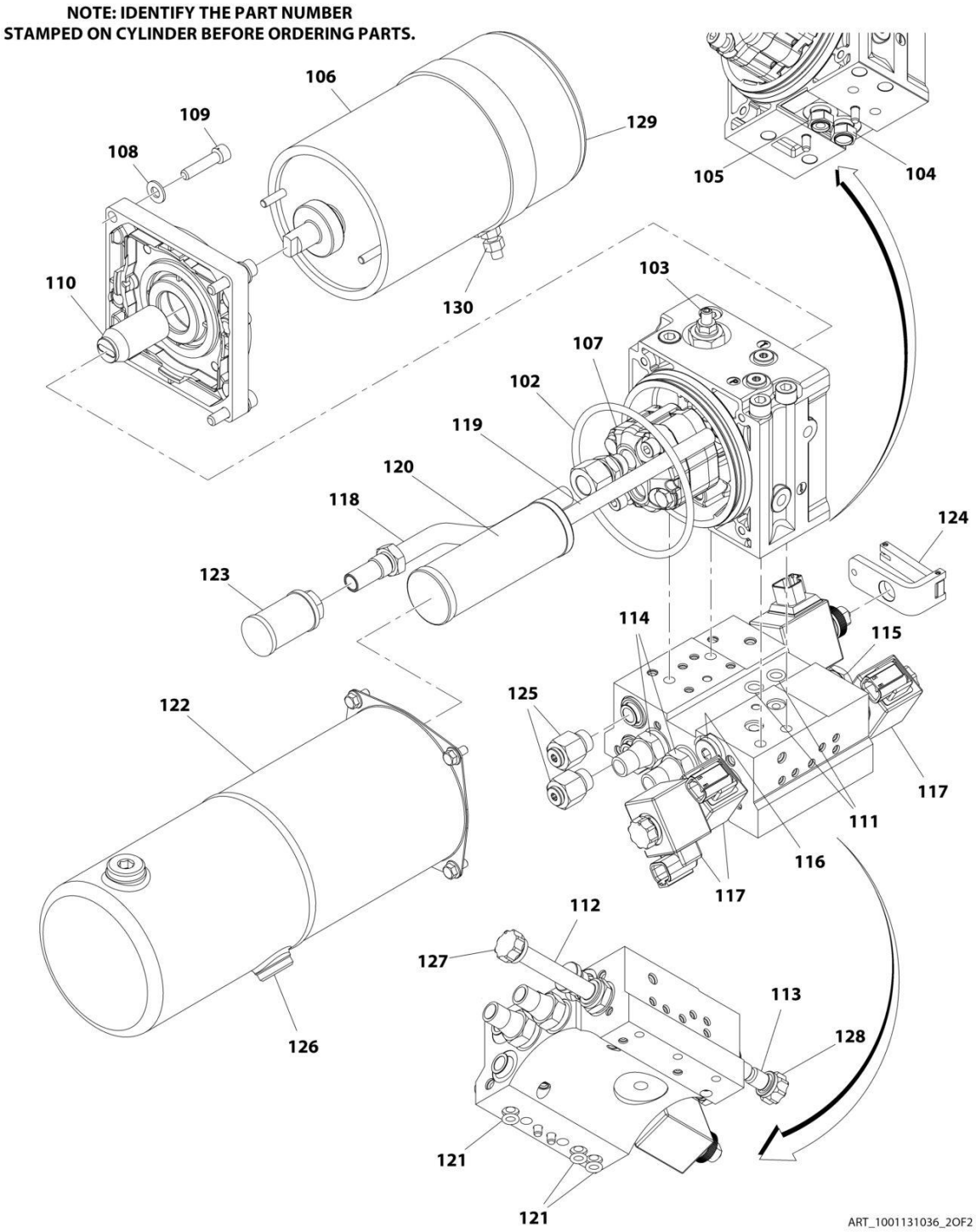
FIGURE 5-7. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SERTA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157332	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SERTA)	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004733	1	Cylinder Assembly Less Powerpack	
2	70004736	1	Seal Kit	
3	70004731	1	Barrel (Includes Item 3A)	
3A	0962006	2	Bushing	
4	70004734	1	Rod (Includes Items 2, 4A, 5, 6 & 7)	
4A	0962181	2	Bushing	
5	70006092	1	Head, Cylinder	
6	70006091	1	Piston	
7	70020438	1	Screw	
8	70004949	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004949	Ref	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004947	1	Pipe, Suction	
119	70004948	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005241	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

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FIGURE 5-8. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)




NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
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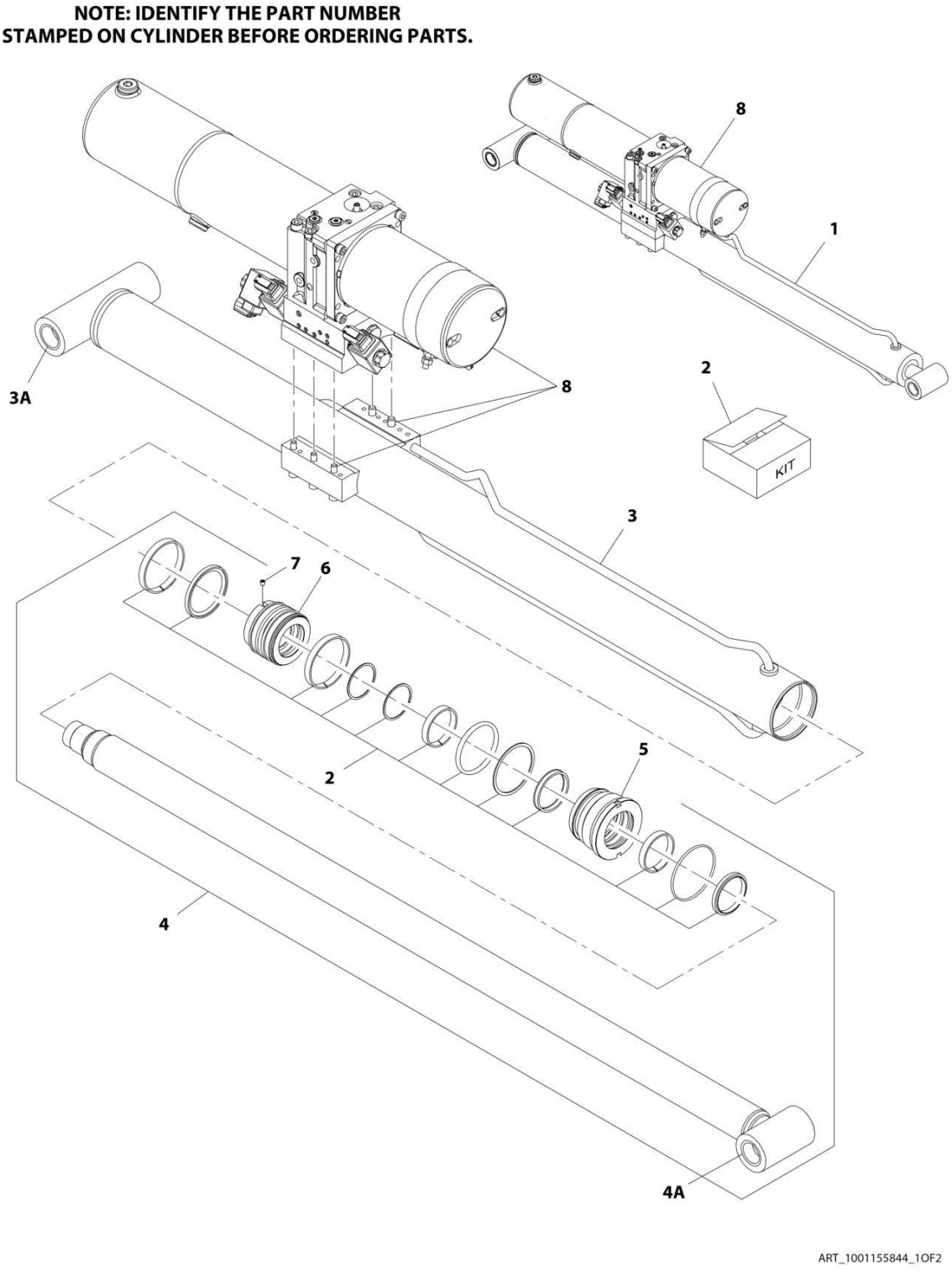
SECTION 5 - CYLINDER

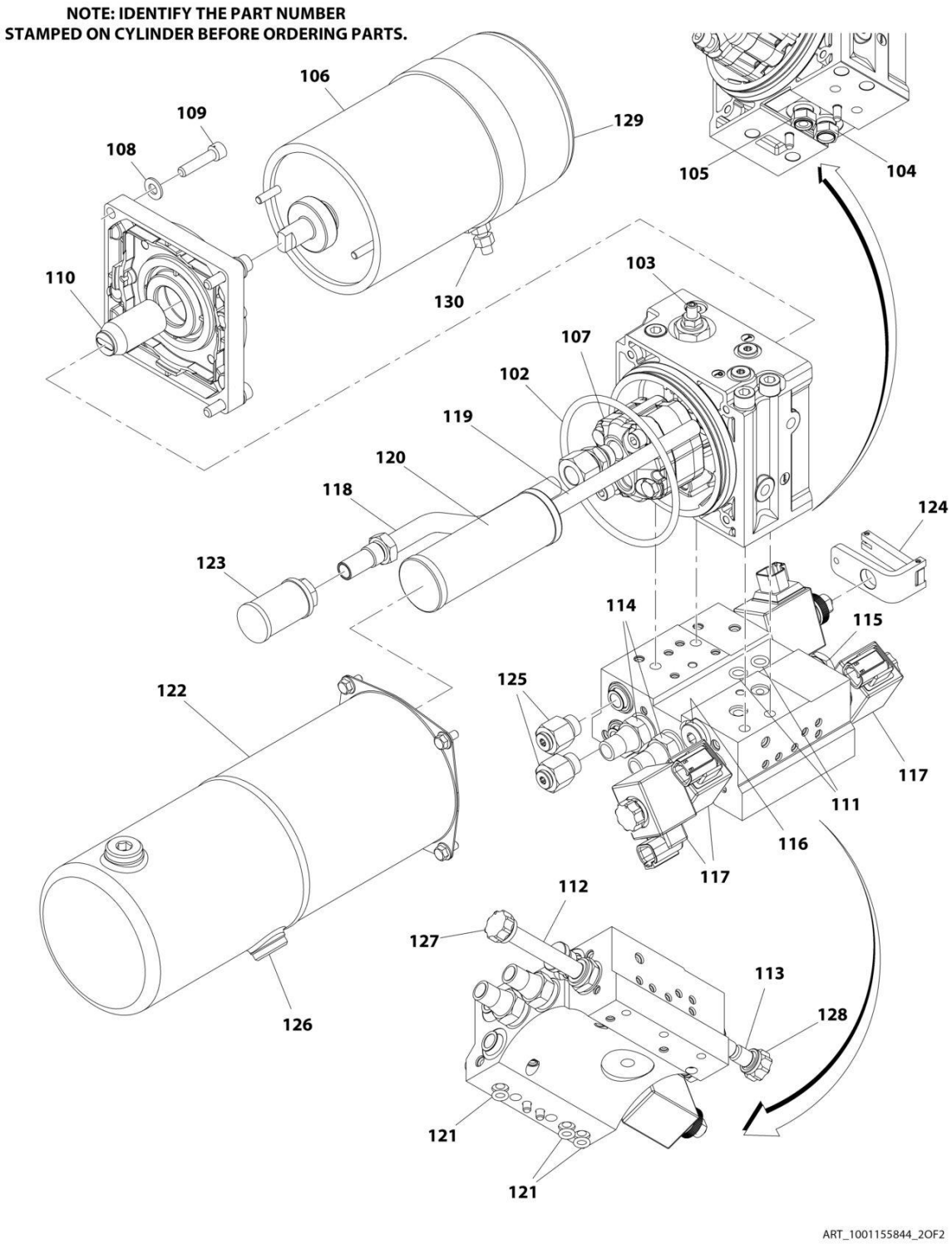
FIGURE 5-8. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131036	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004634	1	Barrel	
2	70004635	1	Rod	
3	70004636	1	Head, Cylinder	
4	See Note	NSS	Seal, Dust (Note: Use Item 20)	
5	See Note	NSS	Seal (Note: Use Item 20)	
6	70004637	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	O-Ring (Note: Use Item 20)	
9	70004638	1	Piston	
10	See Note	NSS	Seal (Note: Use Item 20)	
11	See Note	NSS	Ring, Wear (Note: Use Item 20)	
12	See Note	NSS	O-Ring (Note: Use Item 20)	
13	70003663	1	Nut	
14	0962181	2	Bushing (Rod End)	
14	0962006	2	Bushing (Barrel End)	
15	70004949	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
16	See Note	1	O-Ring (Note: Use Item 20)	
17	70004639	2	Capscrew M10 x 50	
18	70004625	3	Capscrew M8 x 20	
19	70004626	2	Plug, Extension	
20	70004640	1	Seal Kit - Cylinder (Includes Items 4, 5, 7, 8, 10, 11, 12 & 16)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004949	1	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004947	1	Pipe, Suction	
119	70004948	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005241	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

FIGURE 5-9. LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (SERTA)




NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
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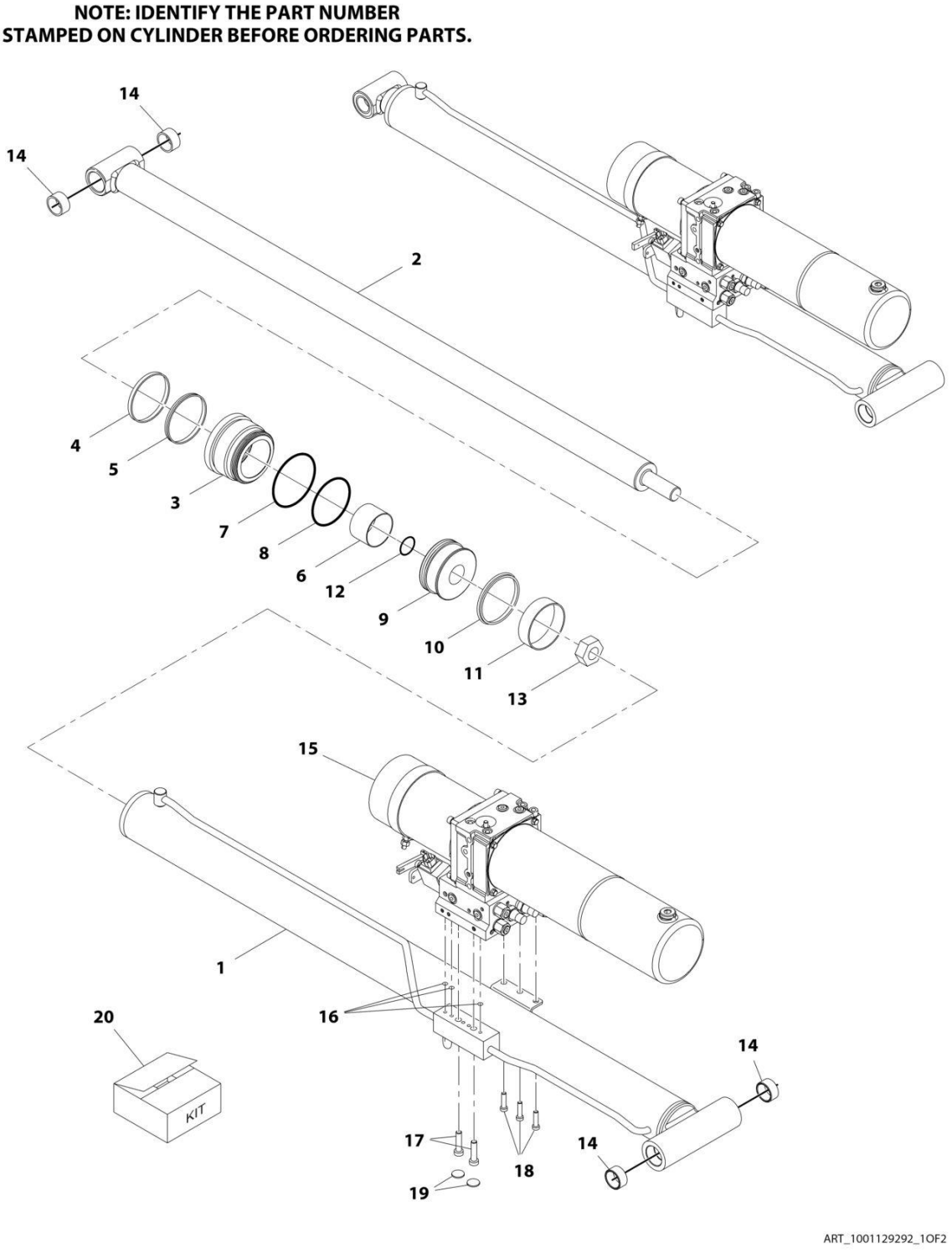
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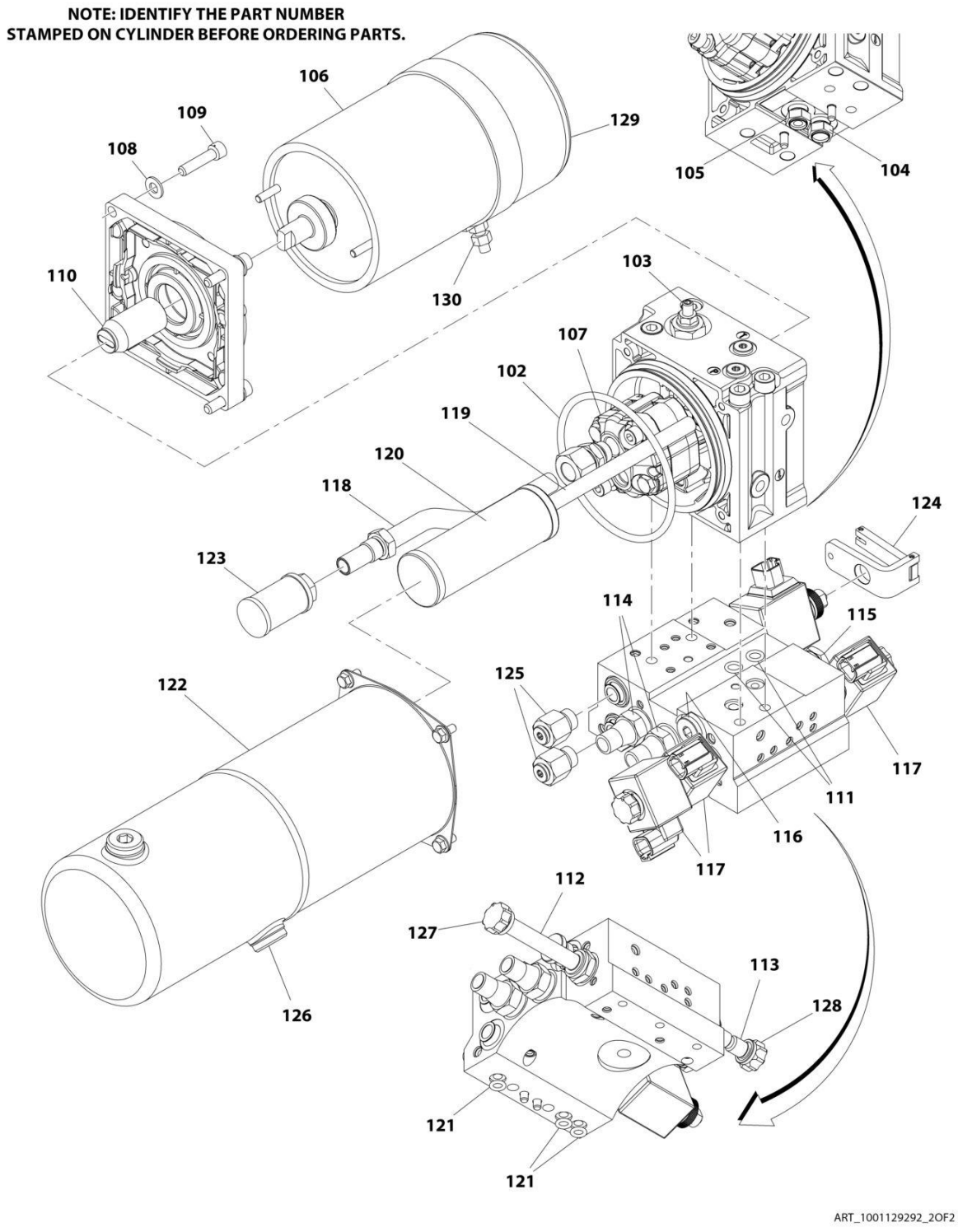
FIGURE 5-9. LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (SERTA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155844	Ref	LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (SERTA)	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004737	1	Cylinder Assembly Less Powerpack	
2	70004736	1	Seal Kit	
3	70004735	1	Barrel (Includes Item 3A)	
3A	0962006	2	Bushing	
4	70004734	1	Rod (Includes Items 2, 4A, 5, 6 & 7)	
4A	0962181	2	Bushing	
5	70006092	1	Head, Cylinder	
6	70006091	1	Piston	
7	70020438	1	Screw	
8	70004953	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004953	Ref	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004951	1	Pipe, Suction	
119	70004952	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005242	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

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FIGURE 5-10. LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (SH-PAC)




NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
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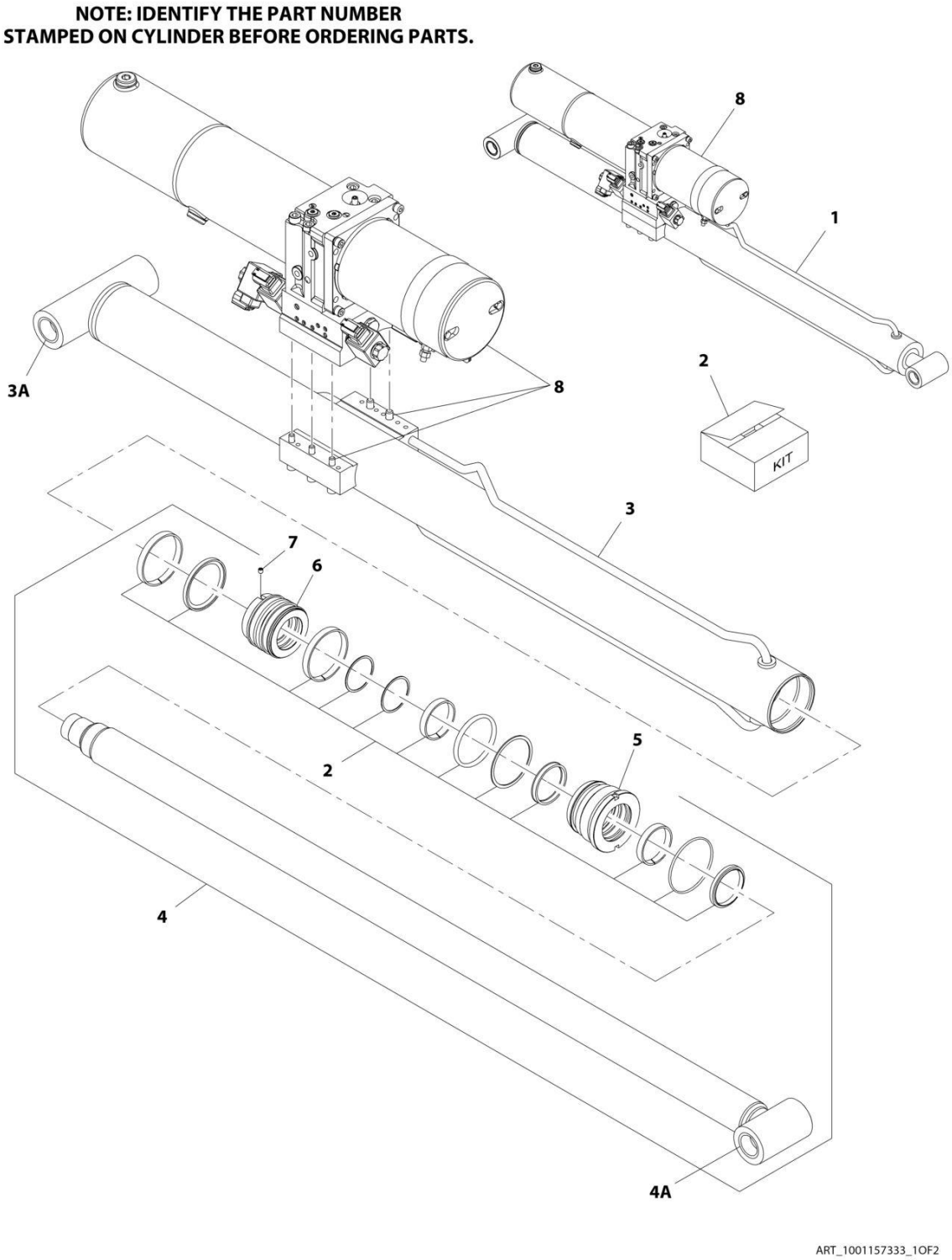
SECTION 5 - CYLINDER

FIGURE 5-10. LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129292	Ref	LIFT CYLINDER ASSEMBLY - 3246ES WITH STANDARD HYDRAULIC OIL (SH-PAC)	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004641	1	Barrel	
2	70004635	1	Rod	
3	70004636	1	Head, Cylinder	
4	See Note	NSS	Seal, Dust (Note: Use Item 20)	
5	See Note	NSS	Seal (Note: Use Item 20)	
6	70004637	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	O-Ring (Note: Use Item 20)	
9	70004638	1	Piston	
10	See Note	NSS	Seal (Note: Use Item 20)	
11	See Note	NSS	Ring, Wear (Note: Use Item 20)	
12	See Note	NSS	O-Ring (Note: Use Item 20)	
13	70003663	1	Nut	
14	0962181	2	Bushing (Rod End)	
14	0962006	2	Bushing (Barrel End)	
15	70004953	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
16	See Note	1	O-Ring (Note: Use Item 20)	
17	70004639	2	Capscrew M10 x 50	
18	70004625	3	Capscrew M8 x 20	
19	70004626	2	Plug, Extension	
20	70004640	1	Seal Kit - Cylinder (Includes Items 4, 5, 7, 8, 10, 11, 12 & 16)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004953	1	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70001917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004951	1	Pipe, Suction	
119	70004952	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005242	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

FIGURE 5-11. LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (SERTA)



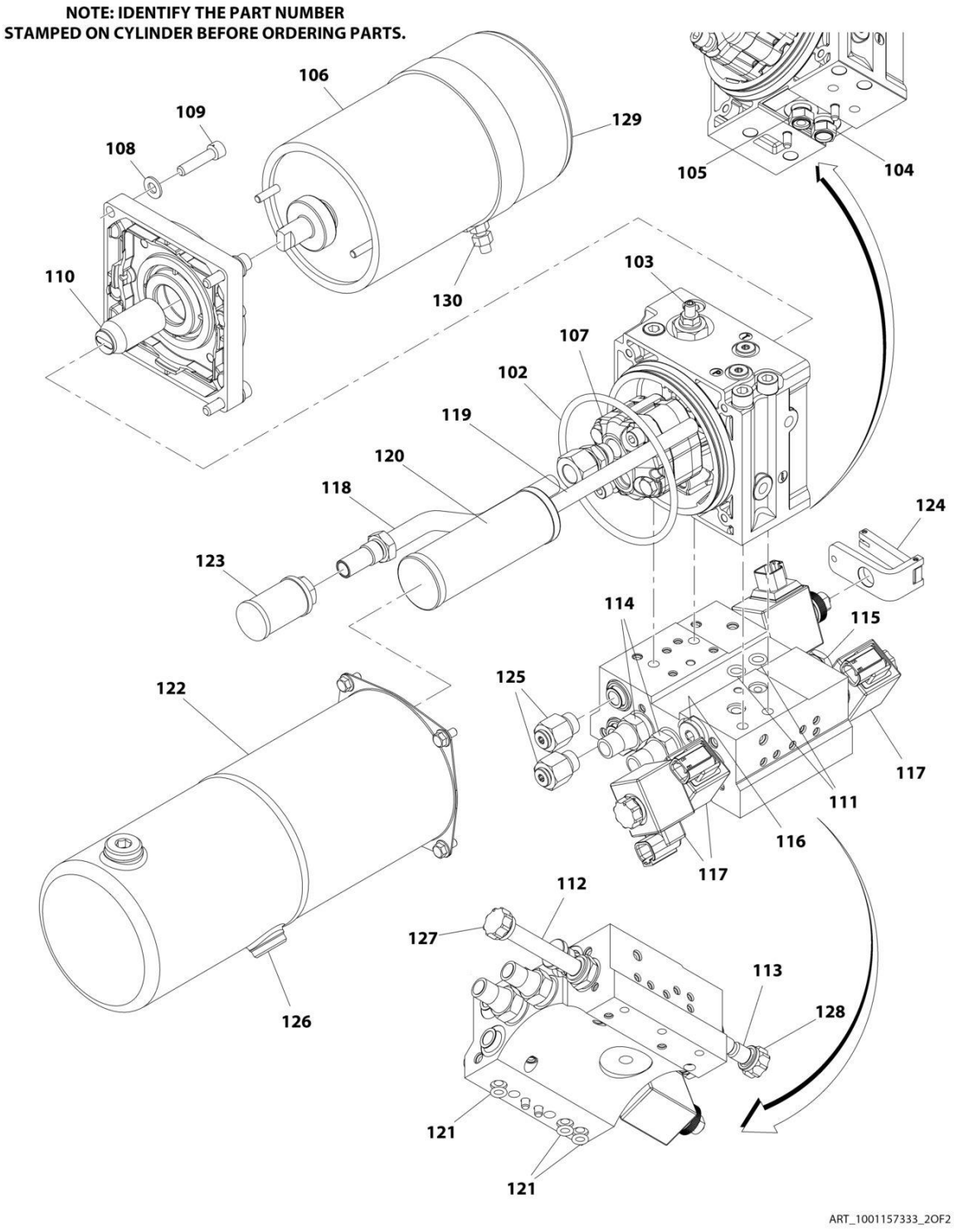
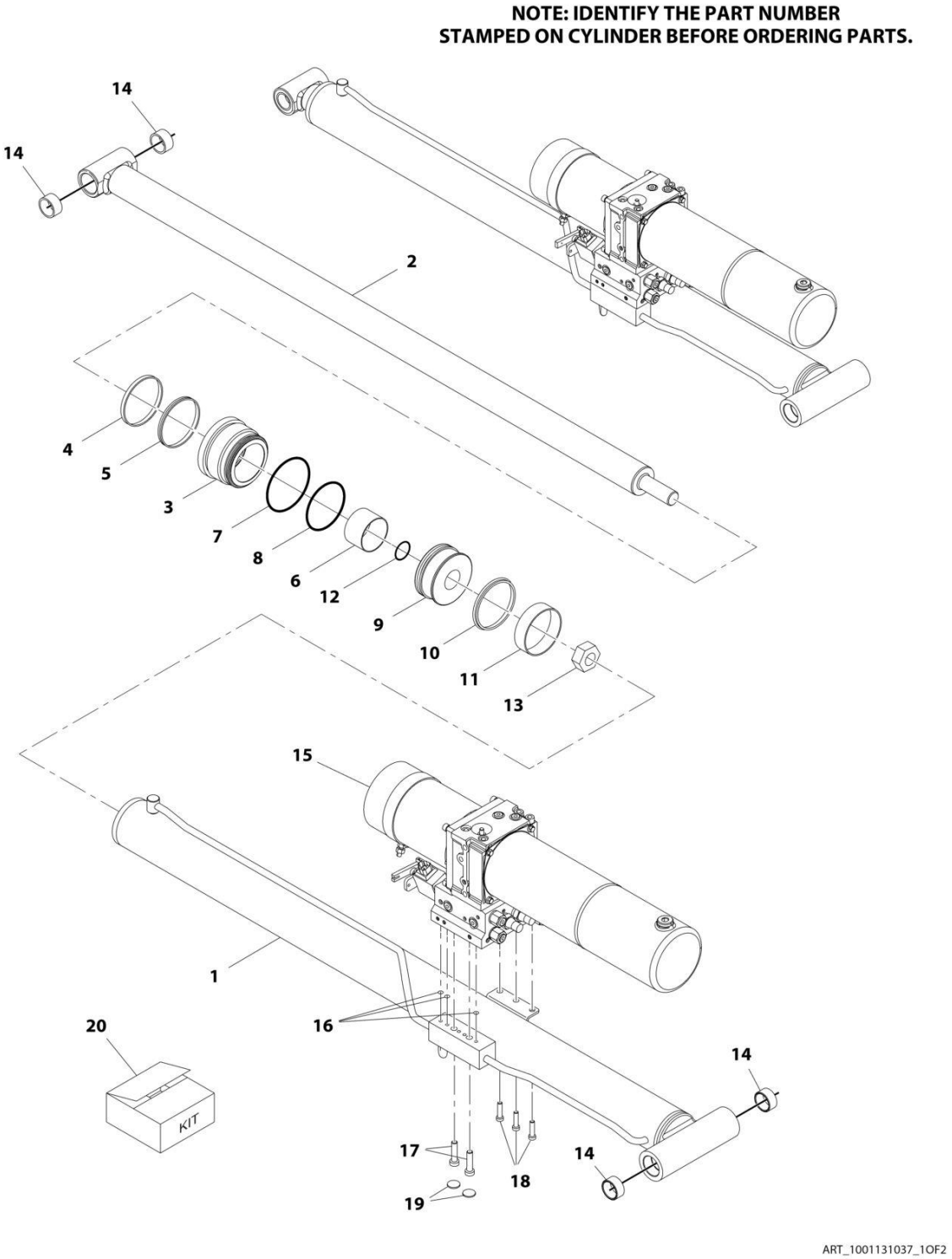
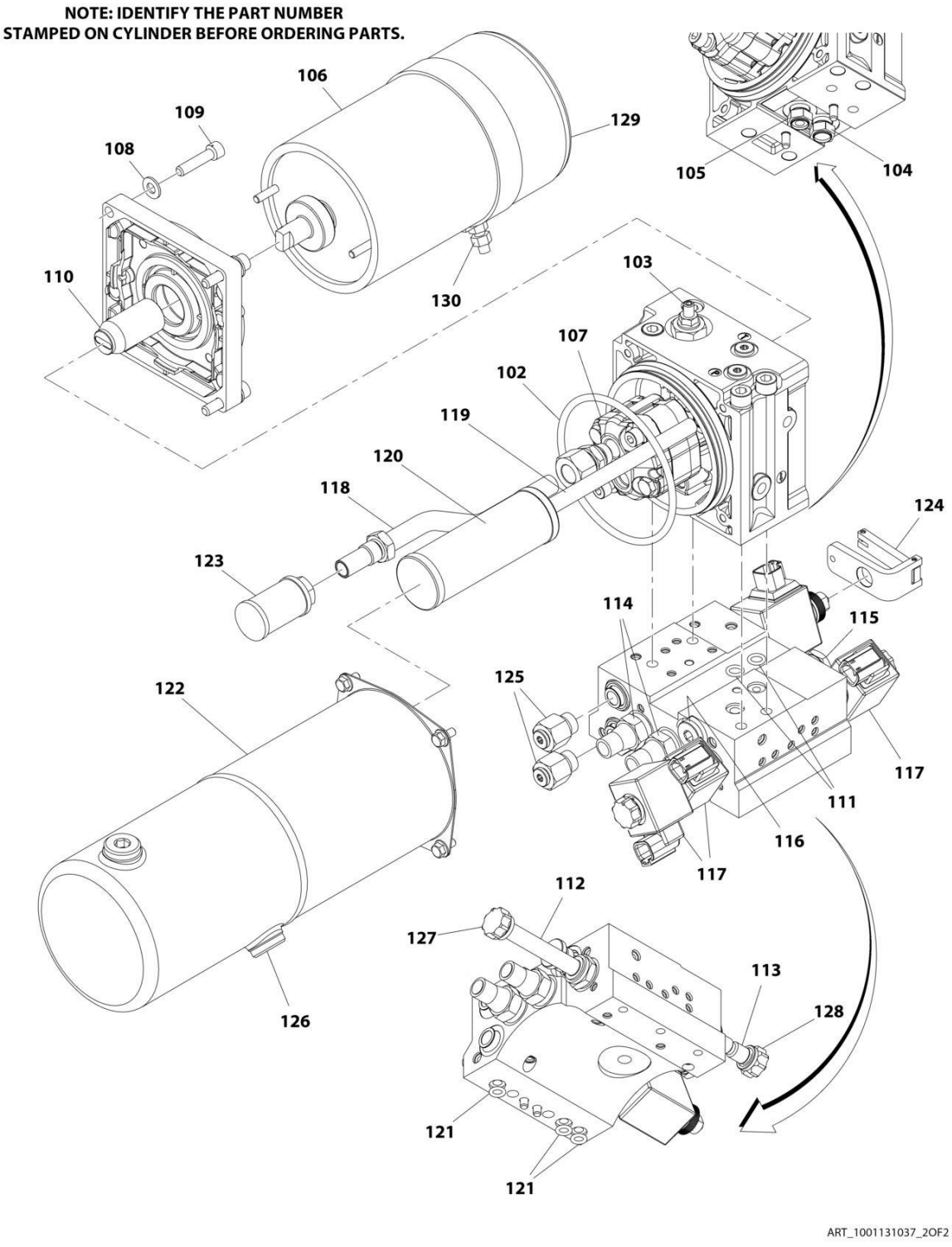

NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
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FIGURE 5-11. LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (SERTA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001157333	Ref	LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (SERTA)	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004737	1	Cylinder Assembly Less Powerpack	
2	70004736	1	Seal Kit	
3	70004735	1	Barrel (Includes Item 3A)	
3A	0962006	2	Bushing	
4	70004734	1	Rod (Includes Items 2, 4A, 5, 6 & 7)	
4A	0962181	2	Bushing	
5	70006092	1	Head, Cylinder	
6	70006091	1	Piston	
7	70020438	1	Screw	
8	70004953	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004953	Ref	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004951	1	Pipe, Suction	
119	70004952	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005242	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

FIGURE 5-12. LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)




NOTE: IDENTIFY THE PART NUMBER
STAMPED ON CYLINDER BEFORE ORDERING PARTS.
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FIGURE 5-12. LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131037	Ref	LIFT CYLINDER ASSEMBLY - 3246ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004641	1	Barrel	
2	70004635	1	Rod	
3	70004636	1	Head, Cylinder	
4	See Note	NSS	Seal, Dust (Note: Use Item 20)	
5	See Note	NSS	Seal (Note: Use Item 20)	
6	70004637	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	O-Ring (Note: Use Item 20)	
9	70004638	1	Piston	
10	See Note	NSS	Seal (Note: Use Item 20)	
11	See Note	NSS	Ring, Wear (Note: Use Item 20)	
12	See Note	NSS	O-Ring (Note: Use Item 20)	
13	70003663	1	Nut	
14	0962181	2	Bushing (Rod End)	
14	0962006	2	Bushing (Barrel End)	
15	70004953	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
16	See Note	1	O-Ring (Note: Use Item 20)	
17	70004639	2	Capscrew M10 x 50	
18	70004625	3	Capscrew M8 x 20	
19	70004626	2	Plug, Extension	
20	70004640	1	Seal Kit - Cylinder (Includes Items 4, 5, 7, 8, 10, 11, 12 & 16)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004953	1	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004951	1	Pipe, Suction	
119	70004952	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005242	1	Kit, Tank (Includes tank, plug, “o”-ring and screws)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	

FIGURE 5-13. STEER CYLINDER ASSEMBLY (SERTA)

NOTE: IDENTIFY THE PART NUMBER STAMPED ON CYLINDER BEFORE ORDERING PARTS.

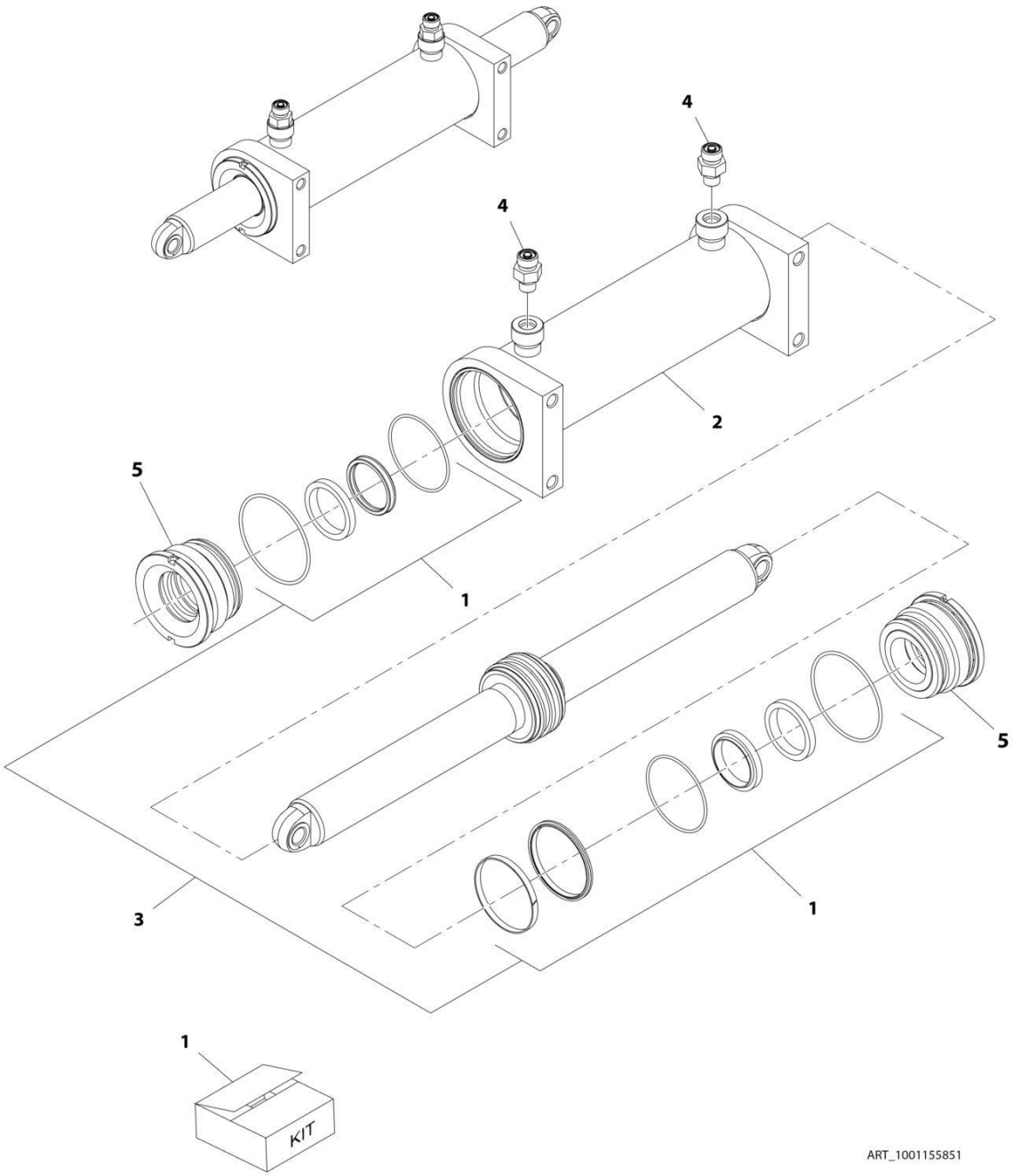


FIGURE 5-13. STEER CYLINDER ASSEMBLY (SERTA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155851	Ref	STEER CYLINDER ASSEMBLY (SERTA)	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004784	1	Seal Kit - Cylinder	
2	70004783	1	Barrel, Cylinder	
3	70004782	1	Rod, Cylinder	
4	2110404	2	Fitting, Straight ORFS/ORB	
5	70006342	2	Head	

FIGURE 5-14. STEER CYLINDER ASSEMBLY (SH-PAC)

NOTE: IDENTIFY THE PART NUMBER STAMPED ON CYLINDER BEFORE ORDERING PARTS.

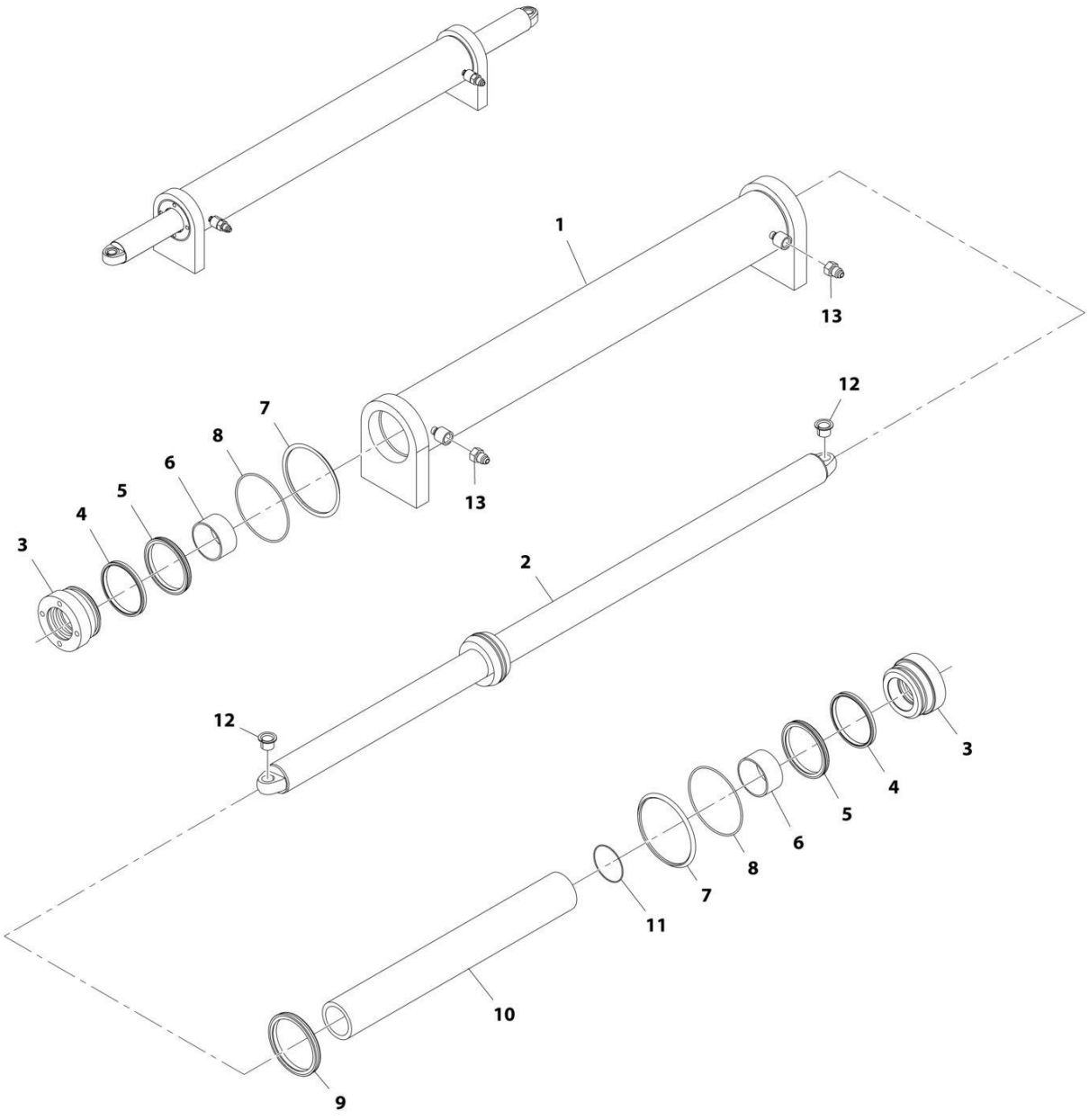


FIGURE 5-14. STEER CYLINDER ASSEMBLY (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129268	Ref	STEER CYLINDER ASSEMBLY (SH-PAC)	D
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004243	1	Barrel, Cylinder	
2	70004242	1	Rod, Cylinder	
3	70004241	2	Head, Cylinder	
4	See Note	NSS	Seal, Dust (Note: Use Item 12)	
5	See Note	NSS	Seal (Note: Use Item 12)	
6	See Note	NSS	Bearing (Note: Use Item 12)	
7	See Note	NSS	O-Ring (Note: Use Item 12)	
8	See Note	NSS	O-Ring (Note: Use Item 12)	
9	See Note	NSS	Seal (Note: Use Item 12)	
10	0440259	2	Bearing	
11	2110404	2	Fitting, Straight ORFS/ORB	
12	70004239	1	Seal Kit (Includes Items 4-9)	
13	70004240	1	Spacer	

SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HYDRAULIC DIAGRAM LIST	
		Ref	Note: For hoses and fittings associated with steering, see Steering Installation.	
	2792599	Ref	Hydraulic Schematic - USA Built Machines (Not Shown - See Service Manual)	
	1001143663	Ref	Hydraulic Schematic - China Built Machines (Not Shown - See Service Manual)	

SECTION 7 - ELECTRICAL

FIGURE 7-1. ELECTRICAL DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ELECTRICAL DIAGRAM LIST	
		Ref	Note: See Service Manual for schematic. For information on diagrams, contact JLG Service Parts Department.	
	0272839	Ref	AC Box at Platform Installation - 110V GFI	
	0275487	Ref	AC to Platform Electrical Diagram - 110 IEC Yellow (CE Spec Only)	
	0275488	Ref	AC to Platform Electrical Diagram - 220V IEC Blue (CE Spec Only)	
	0275486	Ref	AC to Platform Electrical Diagram - 220V AFSINT107 (CE Spec Only)	
	1001162447	Ref	AC to Platform Electrical Diagram - 220V CEE7 Side Ground (CE Spec Only)	
	1001162449	Ref	AC to Platform Electrical Diagram - 220V CEE7 Post Ground (CE Spec Only)	
	1001096628	Ref	AC to Platform Electrical Diagram - (Dual) 220V CEE7 Side Ground (CE Spec Only) - 2646ES	
	1001166759	Ref	Electrical Schematic (Not Shown - See Service Manual)	

FIGURE 7-2. AC BOX AT PLATFORM INSTALLATION - 110V GFI

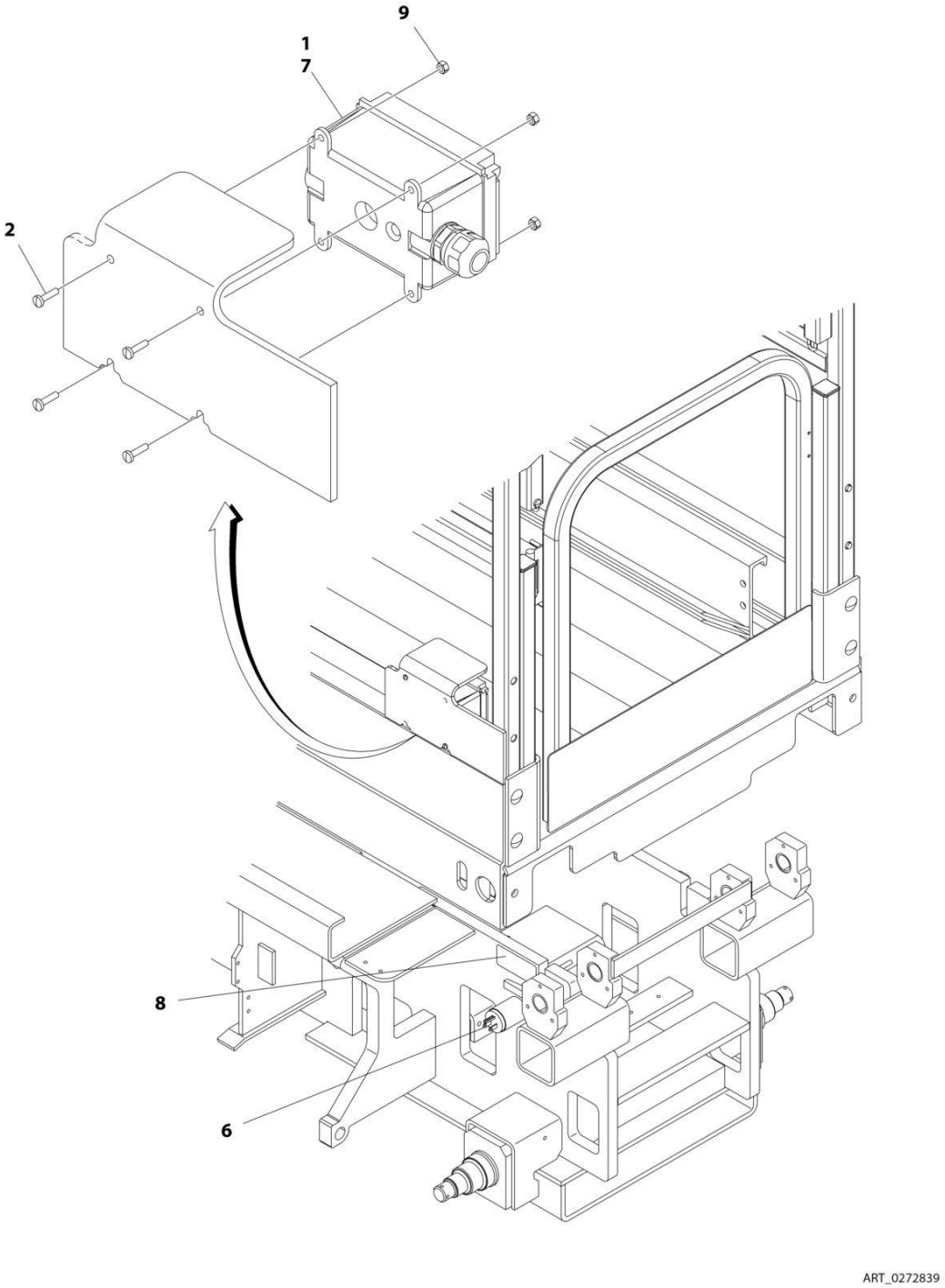


FIGURE 7-2. AC BOX AT PLATFORM INSTALLATION - 110V GFI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272839	Ref	AC BOX AT PLATFORM INSTALLATION - 110V GFI	I
1	2902431	1	Receptacle Box Kit - 110V GFI (See Separate Breakdown in this Section)	
2	4010408	4	Screw M4 x 16	
6	4460138	1	Plug, Male	
7	4460315	3	Terminal	
8	1703464	1	Decal - 120V-60Hz AC Power to Platform	
9	3290405	4	Nut M4	

FIGURE 7-3. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD (ANSI EXPORT SPEC ONLY)

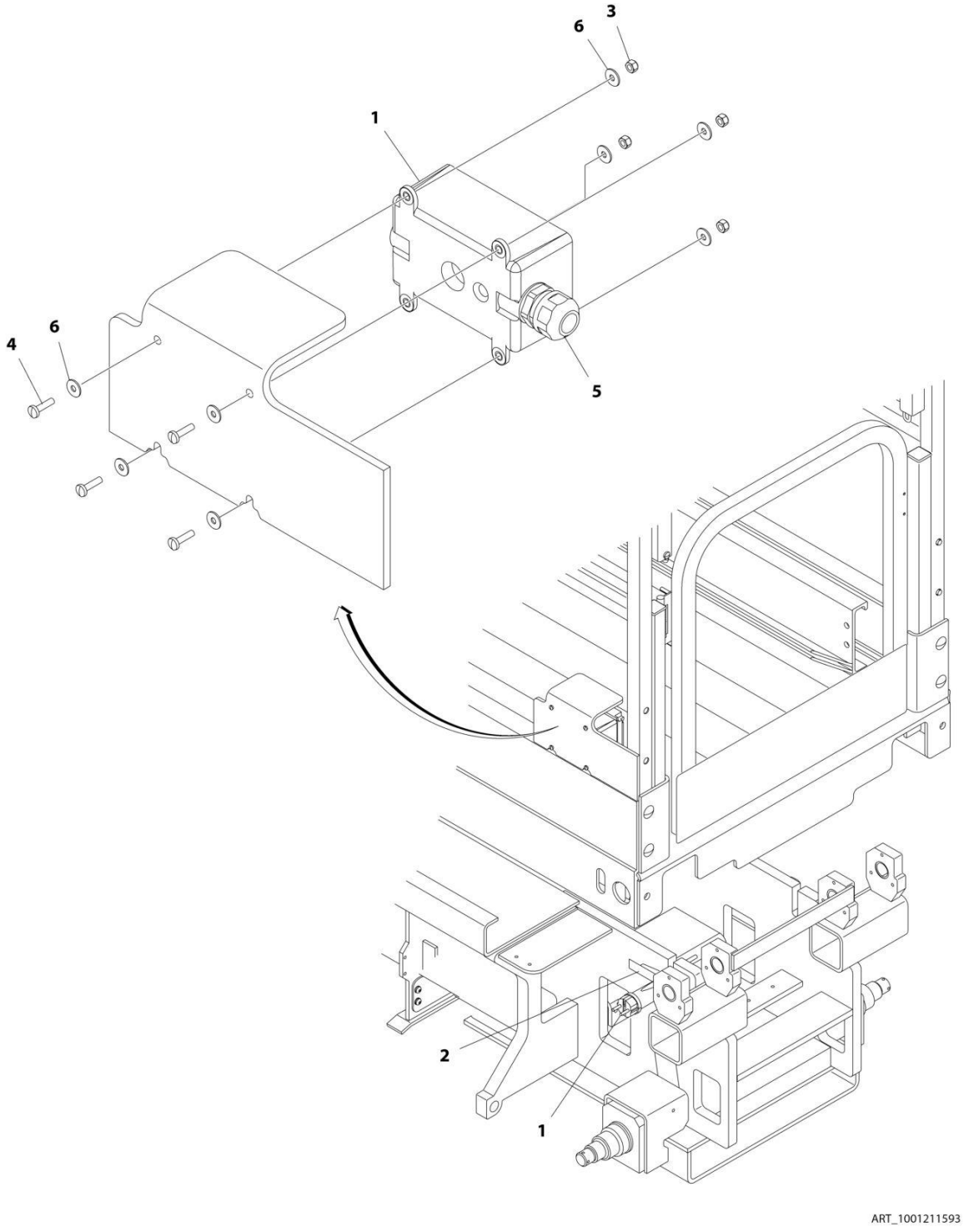


FIGURE 7-3. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD (ANSI EXPORT SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001211593	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD	A
1	0275453	1	Receptacle Box Kit - 220V CEE7 Side Ground (See Separate Breakdown in this Section)	
2	3252507	1	Decal - 220V-50/60Hz	
3	3290405	4	Nut M4	
4	4010408	4	Screw M4 x 16	
5	4460662	1	Connector, Strain Relief	
6	1001091102	8	Washer M4	

FIGURE 7-4. AC BOX AT PLATFORM INSTALLATION - 110V IEC YELLOW (CE SPEC ONLY)

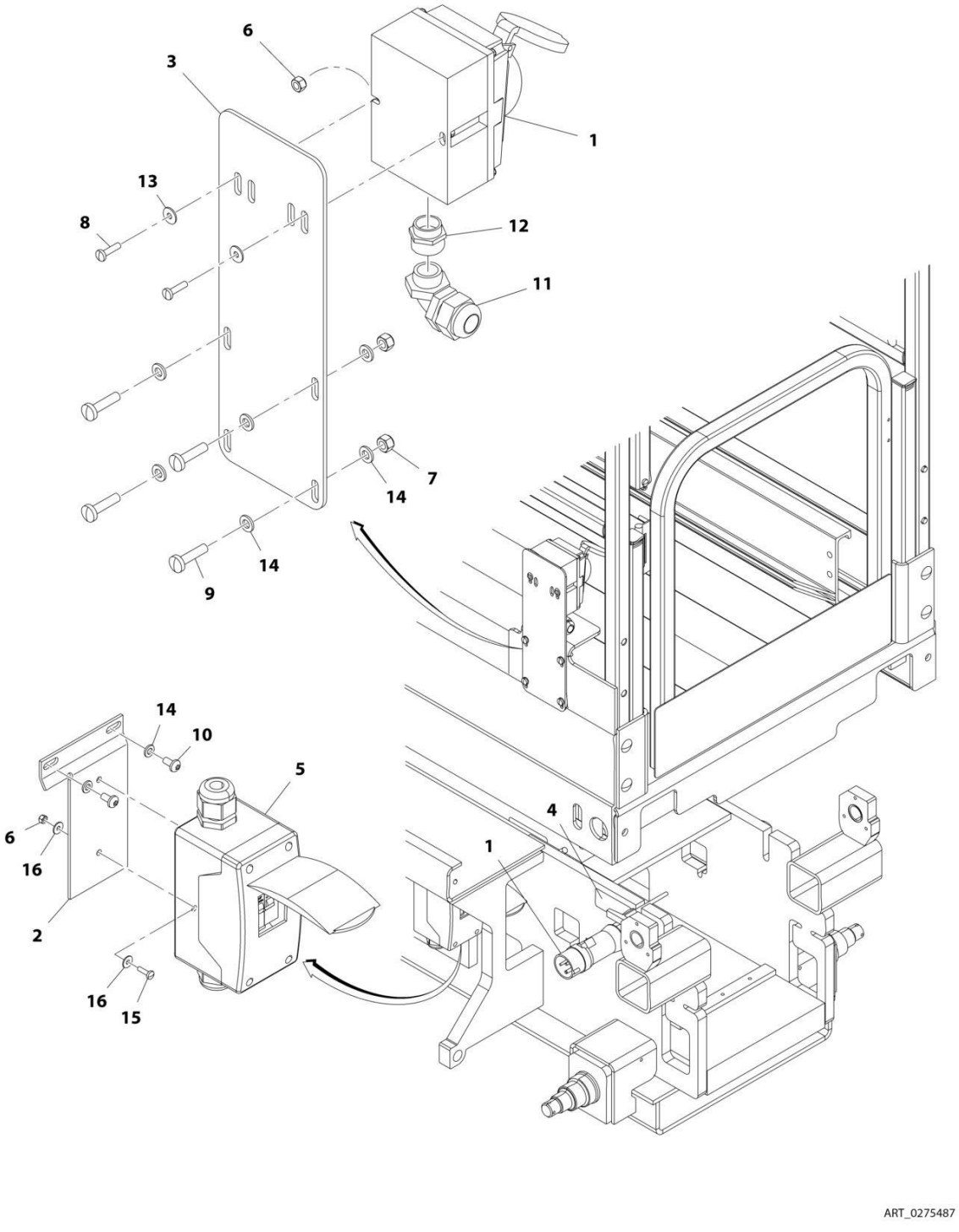


FIGURE 7-4. AC BOX AT PLATFORM INSTALLATION - 110V IEC YELLOW (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275487	Ref	AC BOX AT PLATFORM INSTALLATION - 110V IEC YELLOW	E
1	0275216	1	Receptacle Box Kit - 110V IEC Yellow (See Separate Breakdown in this Section)	
2	0903566	1	Bracket	
3	0903569	1	Bracket	
4	1703464	1	Decal - 120V-60Hz	
5	2902541	1	Breaker Box Kit (See Separate Breakdown in this Section)	
6	3290405	4	Nut M4	
7	3290605	4	Nut M6	
8	4010408	2	Screw M4 x 16	
9	4010612	4	Screw M6 x 25	
10	4191706	2	Screw M6 x 12	
11	4461257	1	Connector, Strain Relief	
12	4461258	1	Adapter	
13	4811400	2	Washer M4	
14	4811700	10	Washer M6	
15	1001101540	2	Screw M4 x 14	
16	1001091102	4	Washer M4	

FIGURE 7-5. AC BOX AT PLATFORM INSTALLATION - 220V IEC BLUE (CE SPEC ONLY)

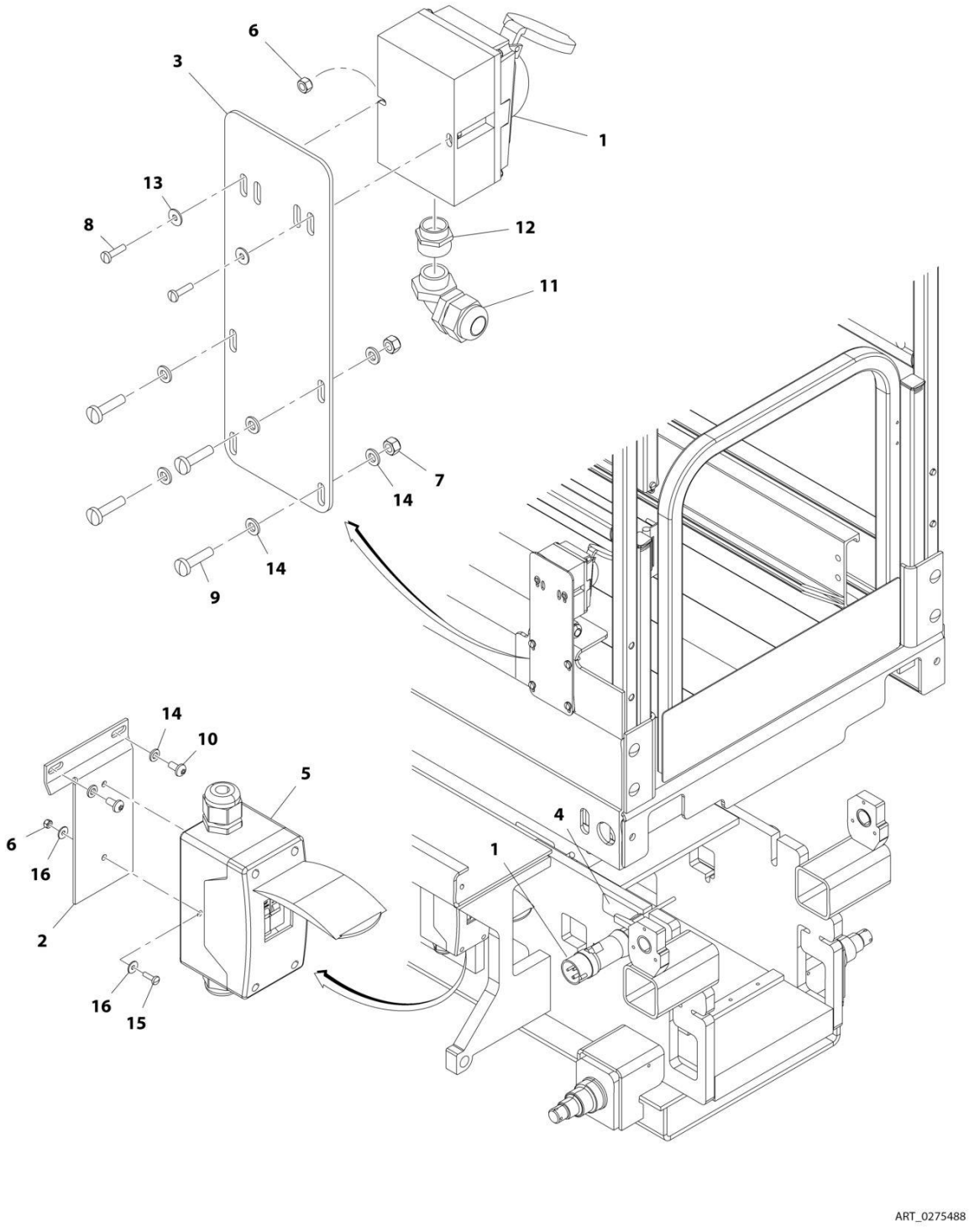


FIGURE 7-5. AC BOX AT PLATFORM INSTALLATION - 220V IEC BLUE (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275488	Ref	AC BOX AT PLATFORM INSTALLATION - 220V IEC BLUE	E
1	0275217	1	Receptacle Box Kit - 220V IEC Blue (See Separate Breakdown in this Section)	
2	0903566	1	Bracket	
3	0903569	1	Bracket	
4	3252507	1	Decal - 220V-50/60Hz	
5	2902541	1	Breaker Box Kit (See Separate Breakdown in this Section)	
6	3290405	4	Nut M4	
7	3290605	4	Nut M6	
8	4010408	2	Screw M4 x 16	
9	4010612	4	Screw M6 x 25	
10	4191706	2	Screw M6 x 12	
11	4461257	1	Connector, Strain Relief	
12	4461258	1	Adapter	
13	4811400	2	Washer M4	
14	4811700	10	Washer M6	
15	1001101540	2	Screw M4 x 14	
16	1001091102	4	Washer M4	

FIGURE 7-6. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT107 (CE SPEC ONLY)

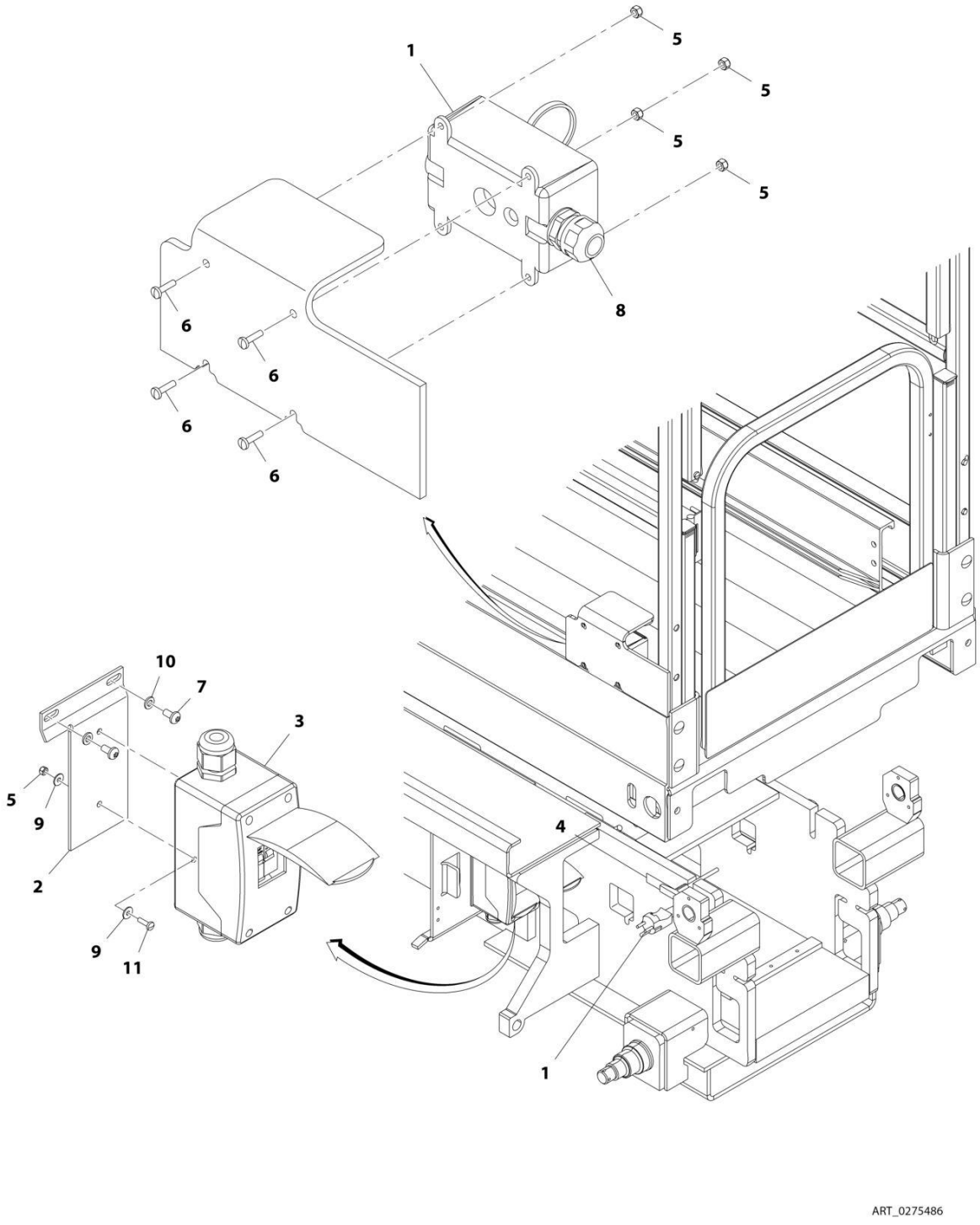


FIGURE 7-6. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT107 (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275486	Ref	AC BOX AT PLATFORM INSTALLATION - 220V AFSINT107	E
1	0275454	1	Receptacle Box Kit - 220V AFSINT107 (See Separate Breakdown in this Section)	
2	0903566	1	Bracket	
3	2902541	1	Breaker Box Kit (See Separate Breakdown in this Section)	
4	3252507	1	Decal - 220V/50-60Hz	
5	3290405	6	Nut M4	
6	4010408	4	Screw M4 x 16	
7	4191706	2	Screw M6 x 12	
8	4460662	1	Connector, Strain Relief	
9	1001091102	2	Washer M4	
10	4811700	2	Washer M6	
11	1001101540	2	Screw M4 x 14	

FIGURE 7-7. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD (CE SPEC ONLY)

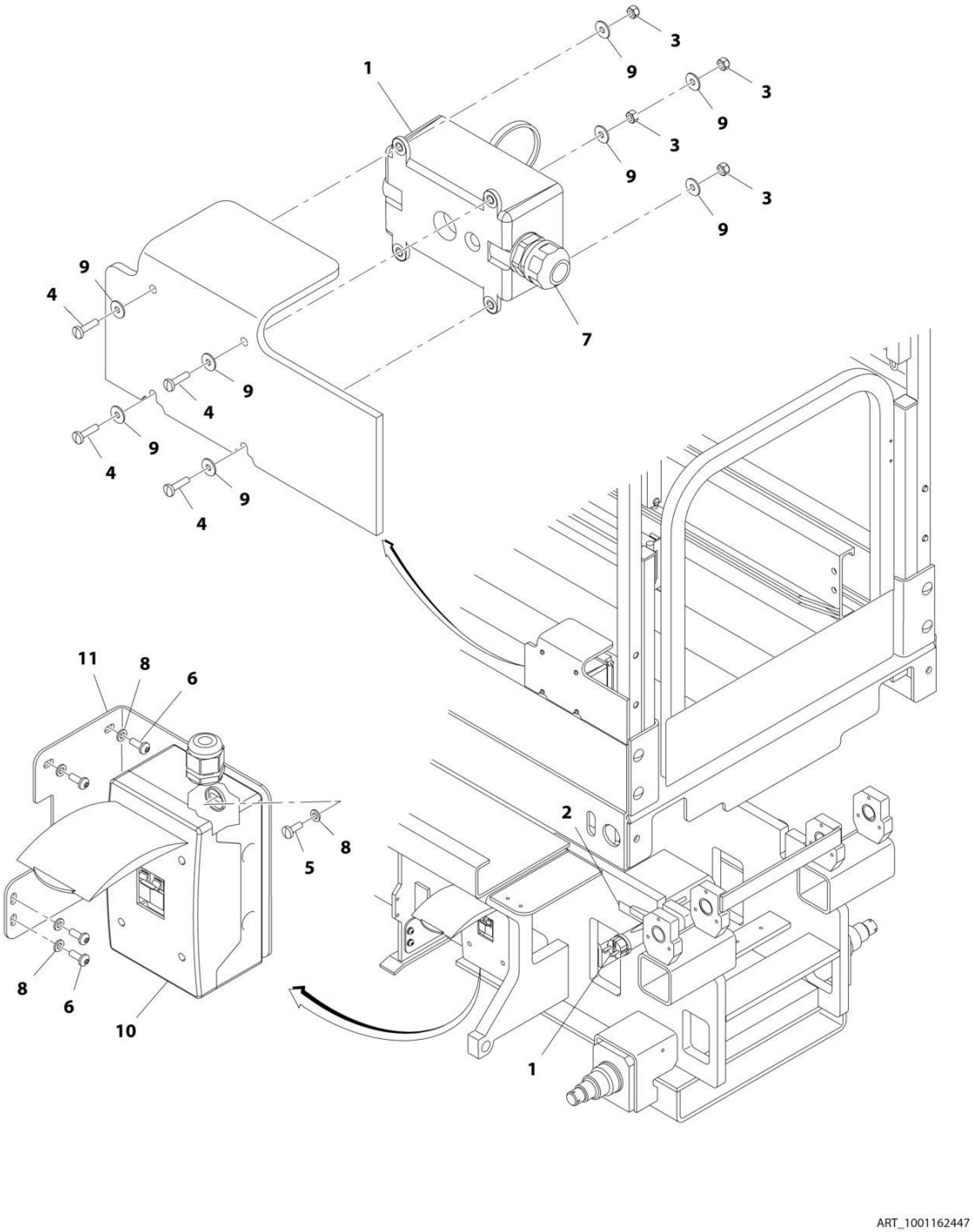


FIGURE 7-7. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162447	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD	A
1	0275453	1	Receptacle Box Kit - 220V CEE7 Side Ground (See Separate Breakdown in this Section)	
2	3252507	1	Decal - 220V-50/60Hz	
3	3290405	4	Nut M4	
4	4010408	4	Screw M4 x 16	
5	4010608	2	Screw M6 x 16	
6	4191707	4	Screw M6 x 16	
7	4460662	1	Connector, Strain Relief	
8	4811700	10	Washer M6	
9	1001091102	8	Washer M4	
10	1001152485	1	Breaker Box Kit (See Separate Breakdown in this Section)	
11	1001162362	1	Bracket	

FIGURE 7-8. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GRD (CE SPEC ONLY)

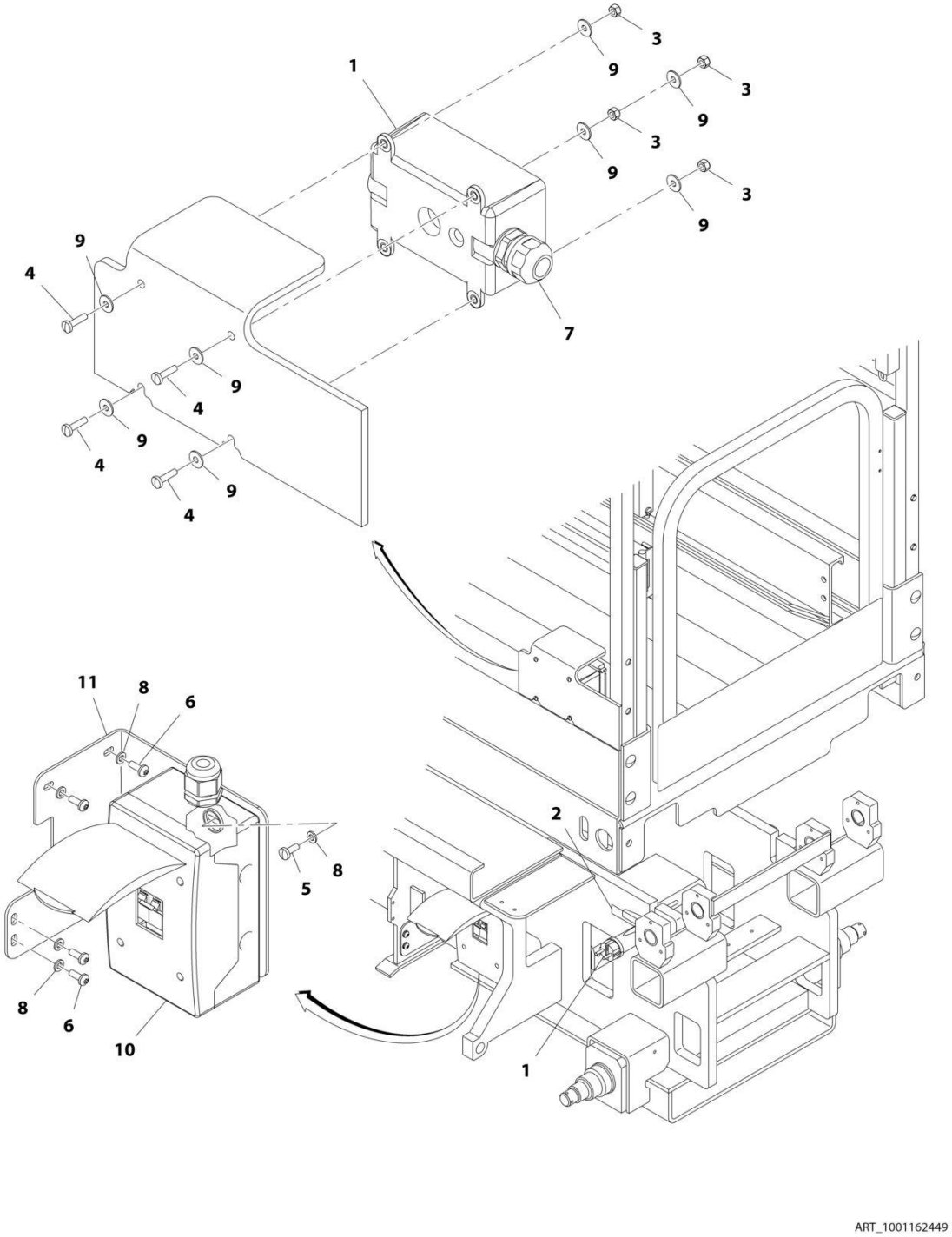


FIGURE 7-8. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GRD (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162449	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GRD	A
1	0275452	1	Receptacle Box Kit - 220V CEE7 Post Ground (See Separate Breakdown in this Section)	
2	3252507	1	Decal - 220V-50/60Hz	
3	3290405	4	Nut M4	
4	4010408	4	Screw M4 x 16	
5	4010608	2	Screw M6 x 16	
6	4191706	4	Screw M6 x 12	
7	4460662	1	Connector, Strain Relief	
8	4811700	6	Washer M6	
9	1001091102	8	Washer M4	
10	1001152485	1	Breaker Box Kit (See Separate Breakdown in this Section)	
11	1001162362	1	Bracket	

FIGURE 7-9. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD - DUAL OUTLET (CE SPEC - 2646ES ONLY)

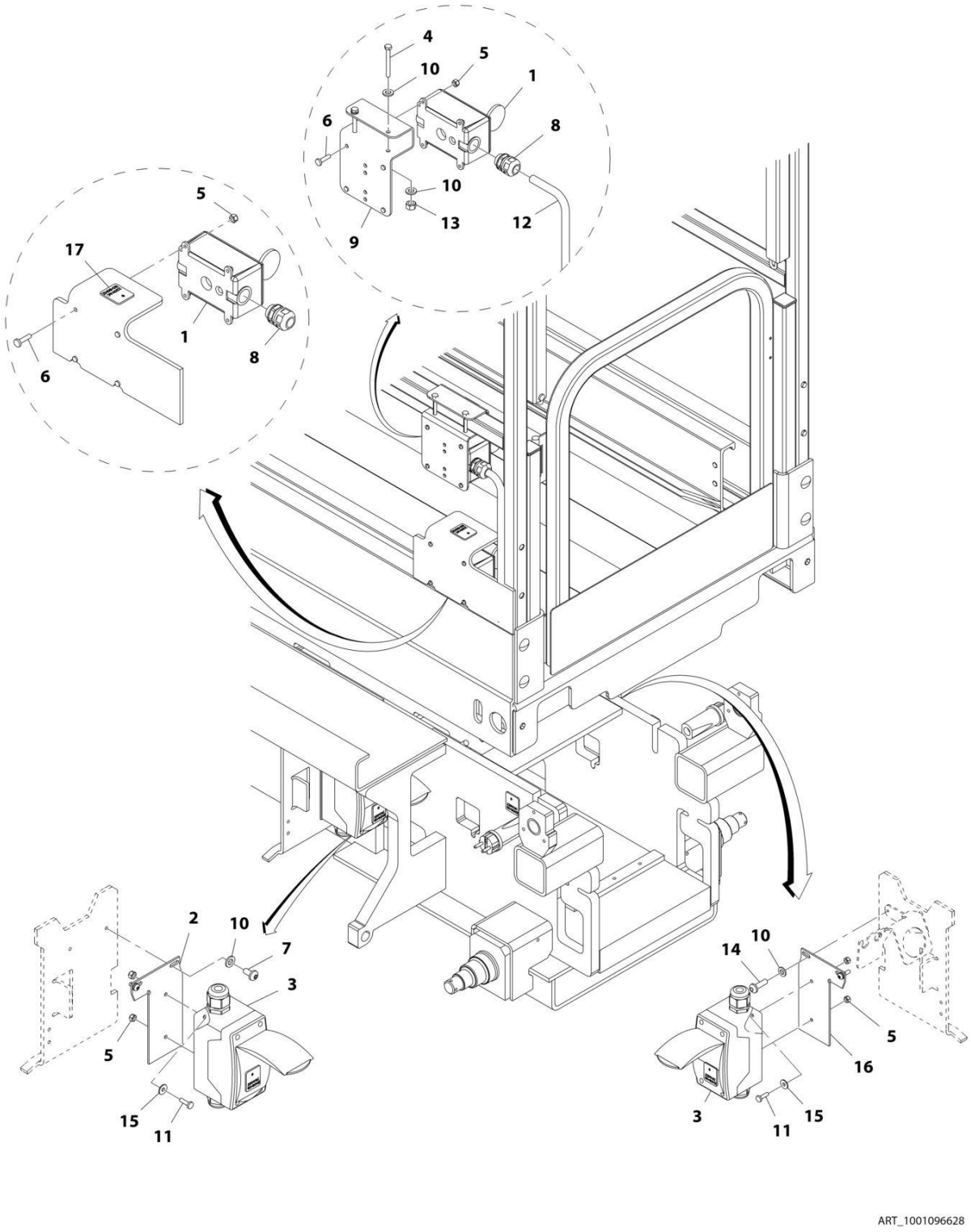


FIGURE 7-9. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD - DUAL OUTLET (CE SPEC - 2646ES ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096628	Ref	AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GRD - DUAL OUTLET	C
1	0275453	2	Receptacle Box Kit - 220V CEE7 Side Ground (See Separate Breakdown in this Section)	
2	0903566	1	Bracket	
3	2902541	2	Breaker Box Kit (See Separate Breakdown in this Section)	
4	0760619	2	Bolt M6 x 55	
5	3290405	12	Nut M4	
6	4010408	8	Screw M4 x 16	
7	4191706	2	Screw M6 x 12	
8	4460662	2	Connector, Strain Relief	
9	0903484	1	Bracket	
10	4811700	8	Washer M6	
11	1001101540	4	Screw M4 x 14	
12	1060908	46 ft/14m	Cable, 12/3	
13	3290607	2	Nut M6	
14	4191708	2	Screw M6 x 20	
15	1001091102	4	Washer M4	
16	1001096627	1	Bracket	
17	1001096926	3	Decal - 220V-50/60Hz	

FIGURE 7-10. AC BOX AT PLATFORM INSTALLATION - 220V (ANSI EXPORT AND CHINESE SPECS ONLY)

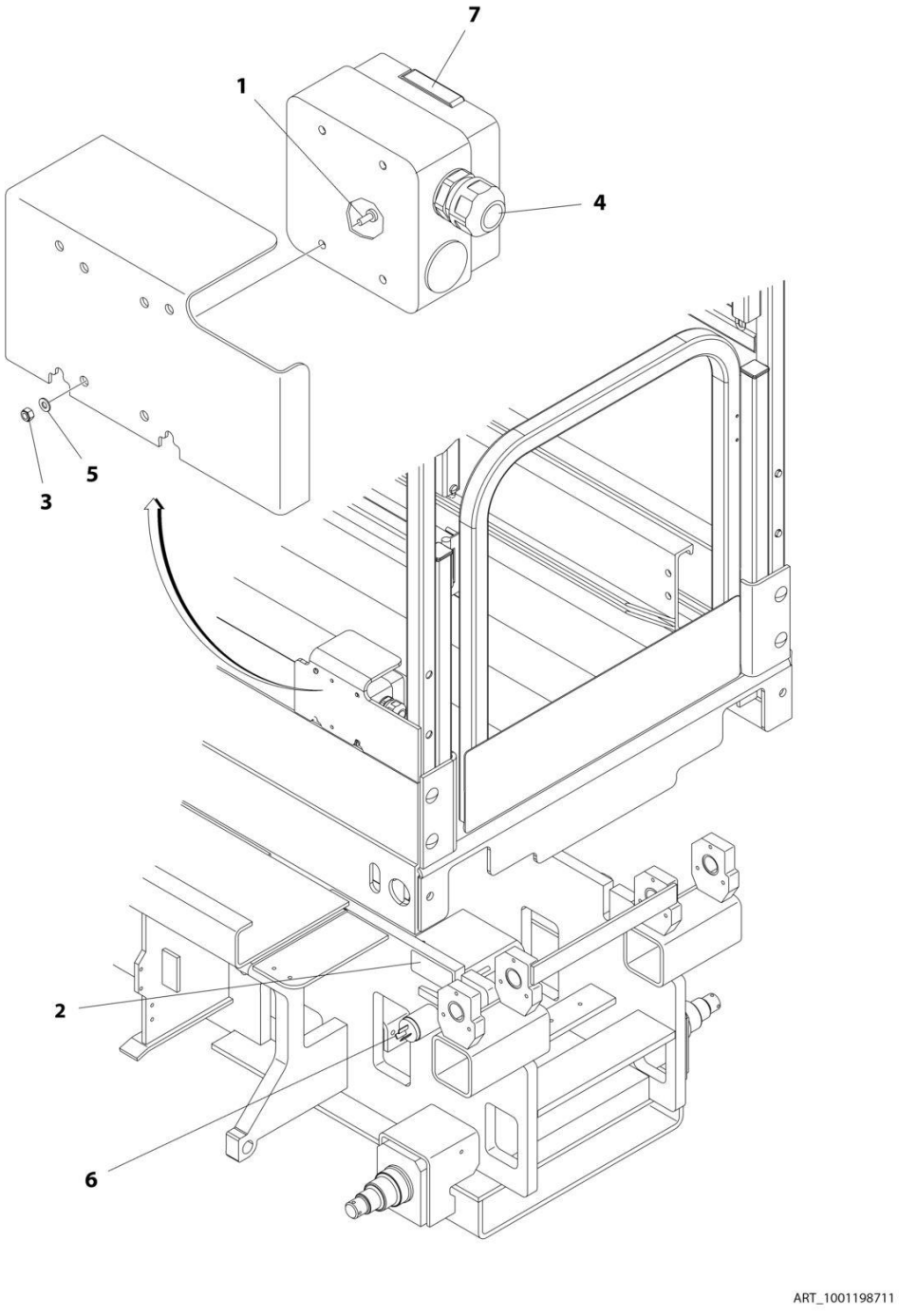


FIGURE 7-10. AC BOX AT PLATFORM INSTALLATION - 220V (ANSI EXPORT AND CHINESE SPECS ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001198711	Ref	AC BOX AT PLATFORM INSTALLATION - 220V	A
1	4010405	4	Screw M4 X 10	
2	3252507	1	Decal - 220V-50/60Hz	
3	3290405	4	Nut M4	
4	4460968	1	Connector, Strain Relief	
5	4811400	4	Washer M4	
6	1001187816	1	Plug	
7	1001188116	1	Box, Receptacle	

FIGURE 7-11. BATTERY CABLE KIT

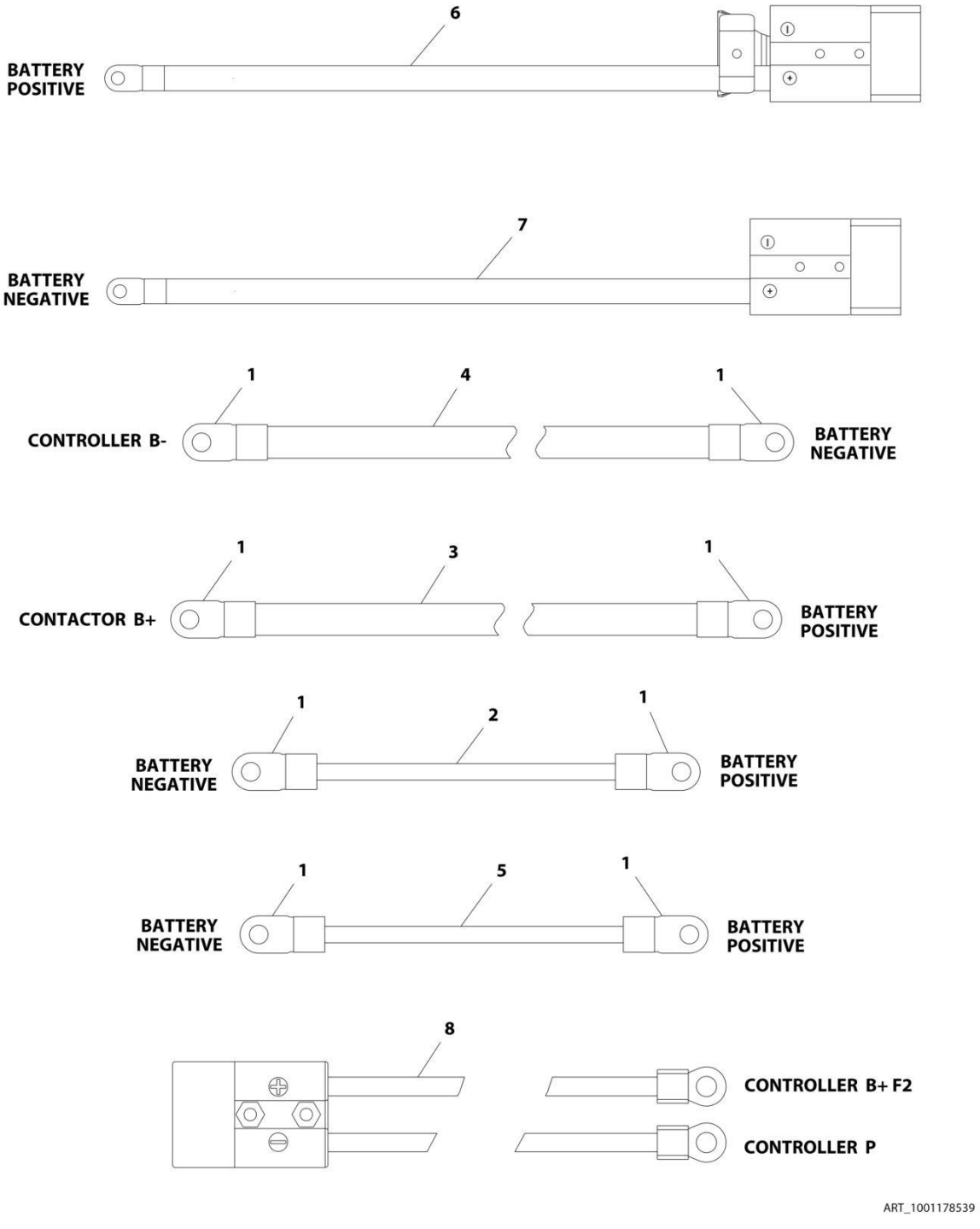


FIGURE 7-11. BATTERY CABLE KIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178539	Ref	BATTERY CABLE KIT	D
1	0840060	8	Boot, Terminal	
2	1060998	2	Cable, Battery	
3	4923406	1	Cable, Positive to Contactor	
4	4923409	1	Cable, Negative to Controller	
5	1001114992	1	Cable, Battery	
6	1001178540	1	Cable, Battery	
7	1001178541	1	Cable, Battery	
8	1001178542	1	Cable, Pump Power	

FIGURE 7-12. BRAKE DISCONNECT HARNESS

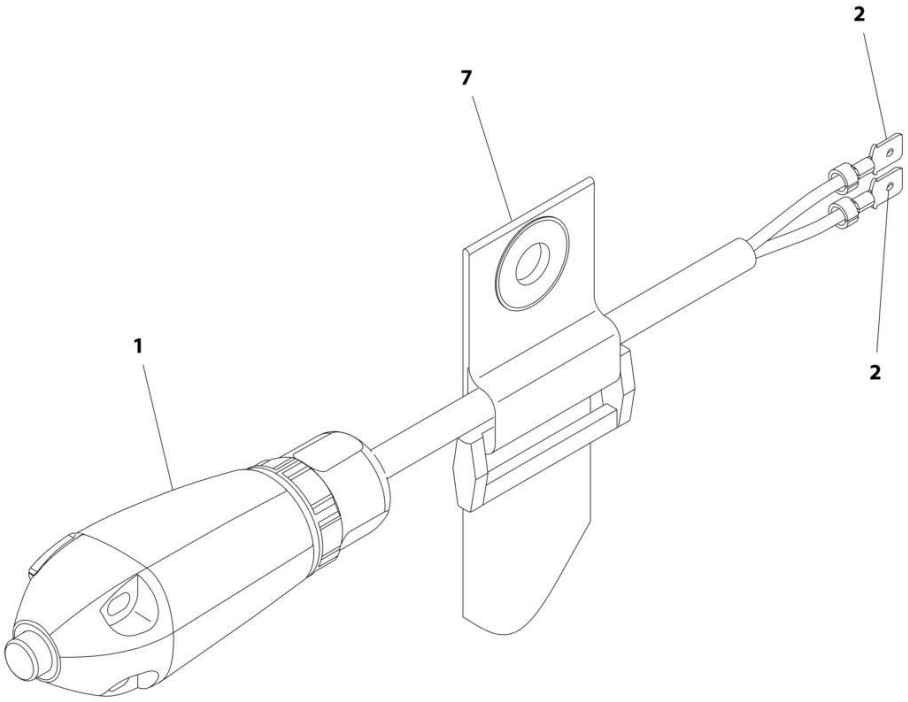


FIGURE 7-12. BRAKE DISCONNECT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922944	Ref	BRAKE DISCONNECT HARNESS	F
1	4360613	1	Switch, Push Button Limit	
2	4461002	2	Terminal	
7	4240003	1	Strap, Cinch	

FIGURE 7-13. BREAKER BOX KIT WITH TWO BREAKERS (CE SPEC ONLY)

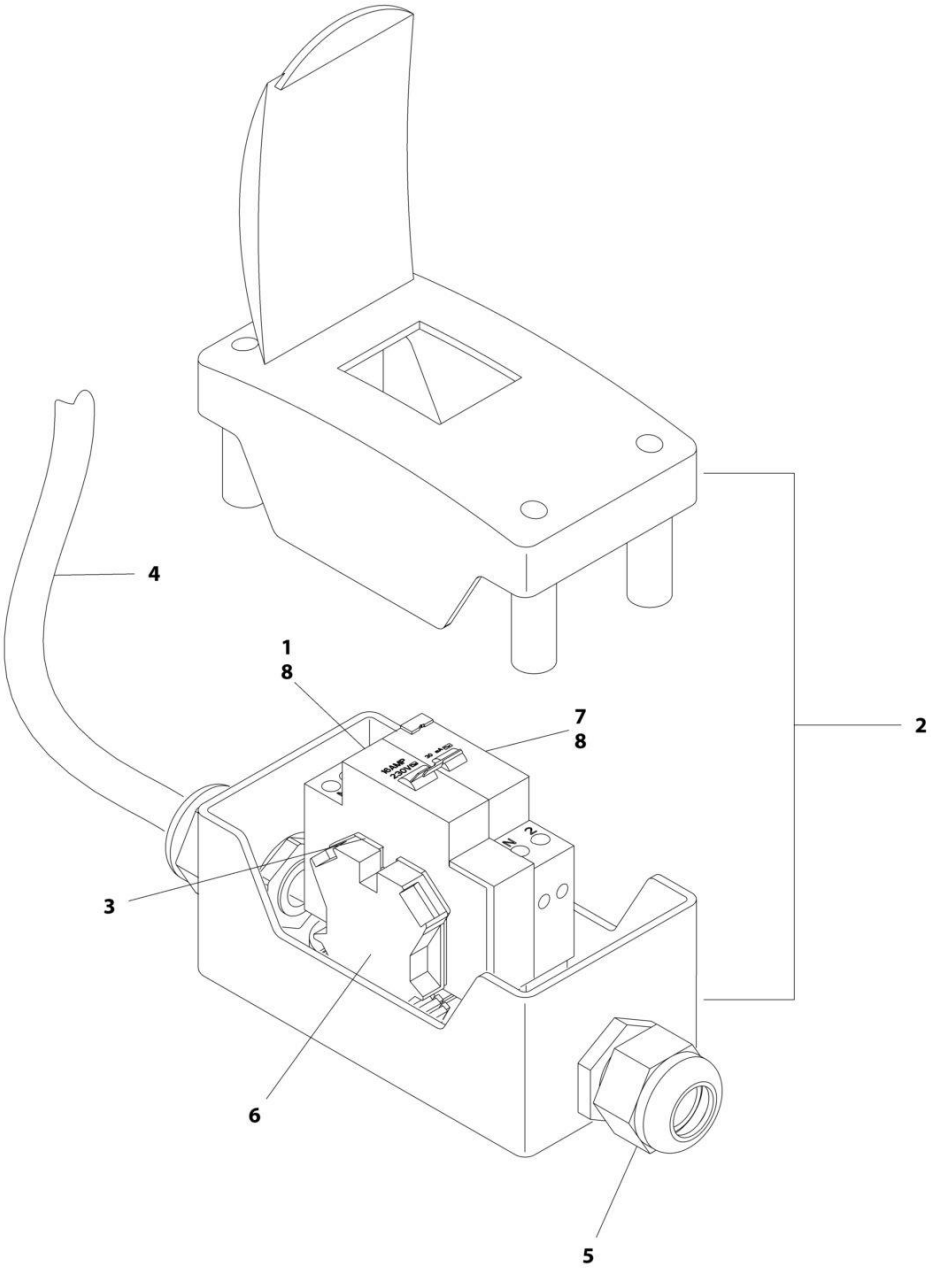


FIGURE 7-13. BREAKER BOX KIT WITH TWO BREAKERS (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902541	Ref	BREAKER BOX KIT WITH TWO BREAKERS (CE SPEC ONLY)	G
1	1001109475	NLA	Breaker, 16Amp (Use p/n 1001181045) **(SN 0200239382 through 0200245768, SN B200020297 through B200022928)**	
2	0861880	1	Box	
3	4460956	1	Barrier, Terminal	
4	1060908	4.6 ft /1.4m	Cable, 12/3	
5	1001097150	2	Connector, Strain Relief	
6	4460957	1	Block, Terminal	
7	1001109482	NLA	Breaker, 30mA (Use p/n 1001181045) **(SN 0200239382 through 0200245768, SN B200020297 through B200022928)**	
8	1001181045	1	Breaker, 16A/30mAmp Combination **(SN 0200245769 to Present, SN 1200025021 to Present, SN B200022929 to Present, SN M200000100 through M200039292)**	

FIGURE 7-14. BREAKER BOX KIT WITH THREE BREAKERS (CE SPEC ONLY)

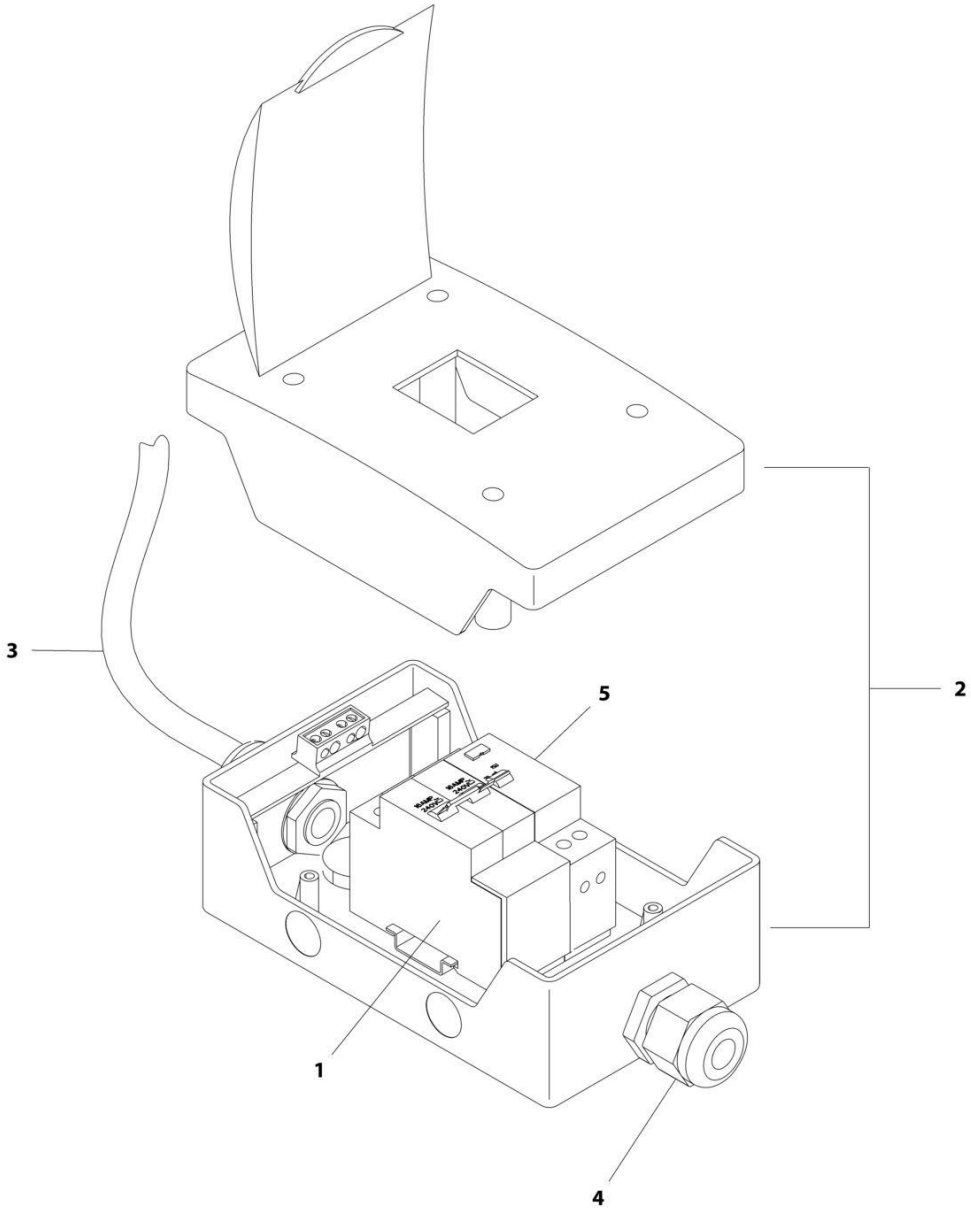


FIGURE 7-14. BREAKER BOX KIT WITH THREE BREAKERS (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152485	Ref	BREAKER BOX KIT WITH THREE BREAKERS (CE SPEC ONLY)	D
1	1001152479	NLA	Breaker 16Amp Double (Use p/n 1001189172) **(SN 0200239382 through 0200248240, SN B200020297 through B200024263, SN M200000100 through M200000139)**	
1	1001189172	1	Breaker 16Amp Double **(SN 0200248241 to Present, SN 1200025021 to Present, SN B200024264 to Present, SN M200000140 through M200039292)**	
2	1001152483	1	Box	
3	1060908	6 ft/1.8m	Cable, 12/3	
4	1001097150	2	Connector, Strain Relief	
5	1001152482	NLA	Breaker, 30mA (Use p/n 1001189171) **(SN 0200239382 through 0200248240, SN B200020297 through B200024263, SN M200000100 through M200000139)**	
5	1001189171	1	Breaker, 30mA **(SN 0200248241 to Present, SN 1200025021 to Present, SN B200024264 to Present, SN M200000140 through M200039292)**	

FIGURE 7-15. CABLES INSTALLATION

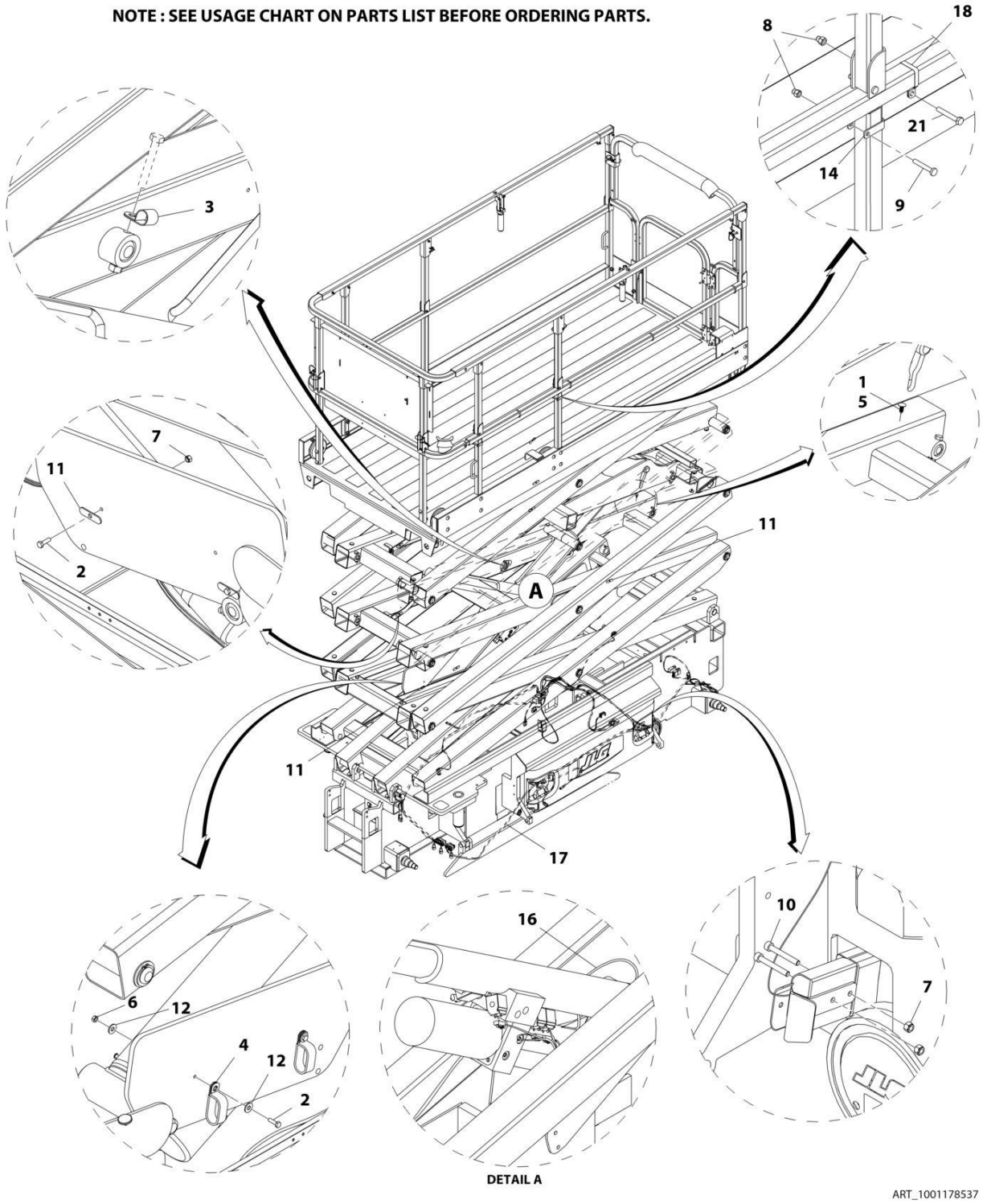


FIGURE 7-15. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178537	Ref	CABLES INSTALLATION	E
		Ref	Usage Chart	
		Ref	China Built Machines **(SN B200020297 through B200035317)**	
		Ref	Mexico Built Machines **(SN M200000100 through M200039292)**	
		Ref	USA Built Machines	
		Ref	ANSI and CSA Specs (All Machines)	
		Ref	Japanese Specs **(SN 0200239382 through 0200258069)**	
		Ref	ANSI Export and China Specs **(SN 0200239382 through 0200248240)**	
1	0100048	AR	Compound, Sealing	
2	0760610	4	Bolt M6 x 20	
3	1320318	1	Clamp	
4	1321716	2	Clamp	
5	1380158	21	Clip, Retainer	
6	3290601	2	Nut M6	
7	3290605	4	Nut M6	
8	3290606	6	Nut M6	
9	4010616	2	Screw M6 x 40	
10	4031713	2	Capscrew M6 x 45	
11	4740545	8	Washer	
12	4751400	4	Washer 1/4	
13	1001178686	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
14	1001094175	2	Clamp	
15	1001096707	1	Platform Harness (Includes Item 18) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200239382 through 0200262555, SN B200020297 through B200035317, SN M200000100 through M200010214)**	
15	1001201244	1	Platform Harness (Includes Item 18) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200262556 to Present, SN M200010215 through M200039292)**	
16	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
17	1001187231	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	
18	1001094180	NLA	Clamp (Use p/n 1001210760) **(SN 0200239382 through 0200257625, SN B200020297 through B200035317, SN M200000100 through M200002832)**	
18	1001210433	NLA	Clamp (Use p/n 1001210760) **(SN 0200257626 to Present, SN M200002833 through M200039292)**	
19	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
20	1001178543	1	Pump Power Harness (Not Shown - See PUMP POWER HARNESS for Breakdown)	
21	0760606	4	Bolt M6 x 12	

FIGURE 7-16. CABLES INSTALLATION

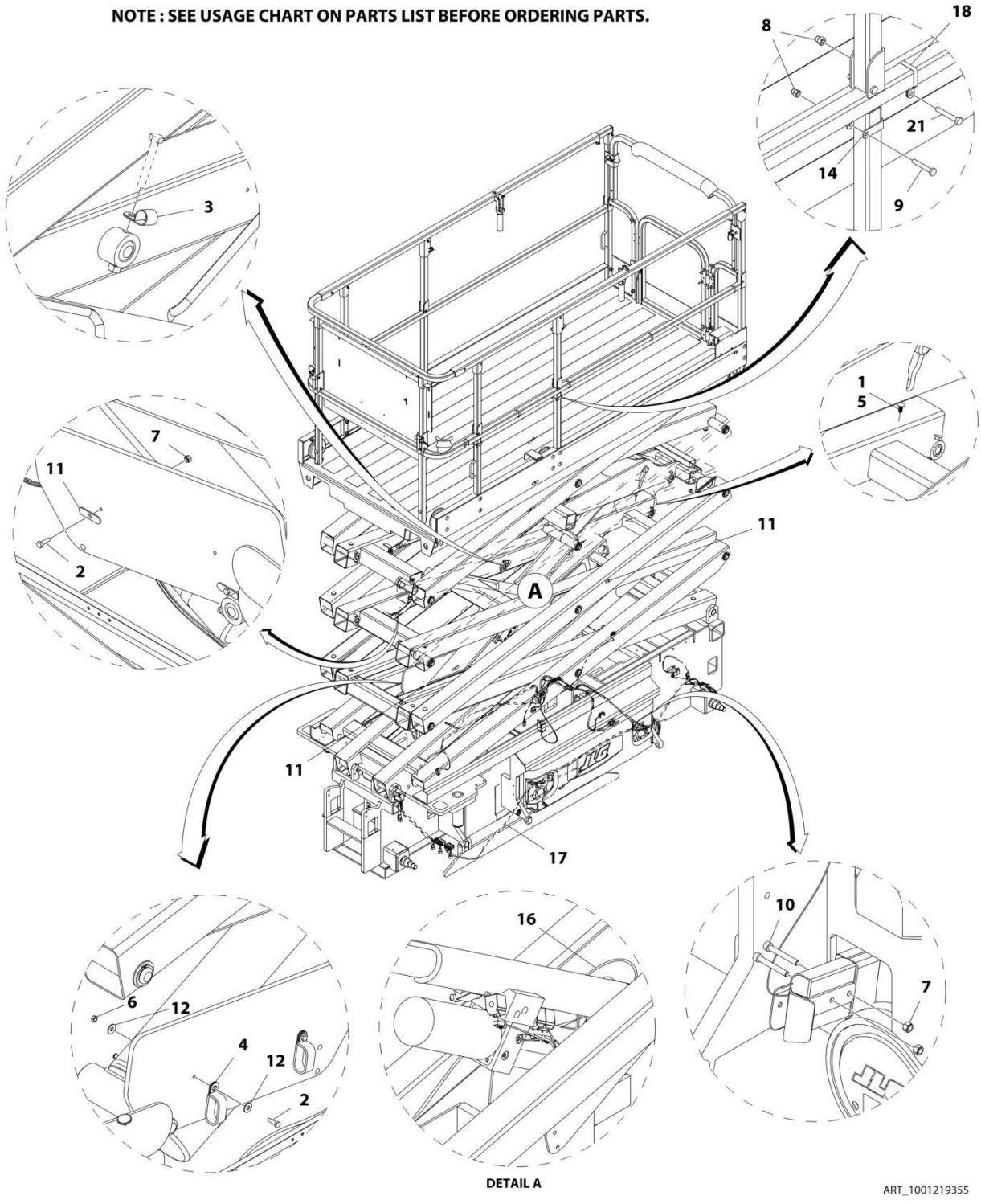


FIGURE 7-16. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219355	Ref	CABLES INSTALLATION	B
		Ref	Usage Chart	
		Ref	China Built Machines **(SN B200035318 to Present)**	
		Ref	ANSI and CSA Specs	
1	0100048	AR	Compound, Sealing	
2	0760610	4	Bolt M6 x 20	
3	1320318	1	Clamp	
4	1321716	2	Clamp	
5	1380158	21	Clip, Retainer	
6	3290601	2	Nut M6	
7	3290605	4	Nut M6	
8	3290606	6	Nut M6	
9	4010616	2	Screw M6 x 40	
10	4031713	2	Capscrew M6 x 45	
11	4740545	8	Washer	
12	4751400	4	Washer 1/4	
13	1001178686	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
14	1001094175	2	Clamp	
15	1001096707	1	Platform Harness (Includes Item 18) (Not Shown - See PLATFORM HARNESS for Breakdown)	
16	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
17	1001187231	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	
18	1001220668	4	Clamp	
19	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
20	1001178543	1	Pump Power Harness (Not Shown - See PUMP POWER HARNESS for Breakdown)	
21	0760606	4	Bolt M6 x 12	
21	0760605	4	Bolt M6 x 10	

FIGURE 7-17. CABLES INSTALLATION

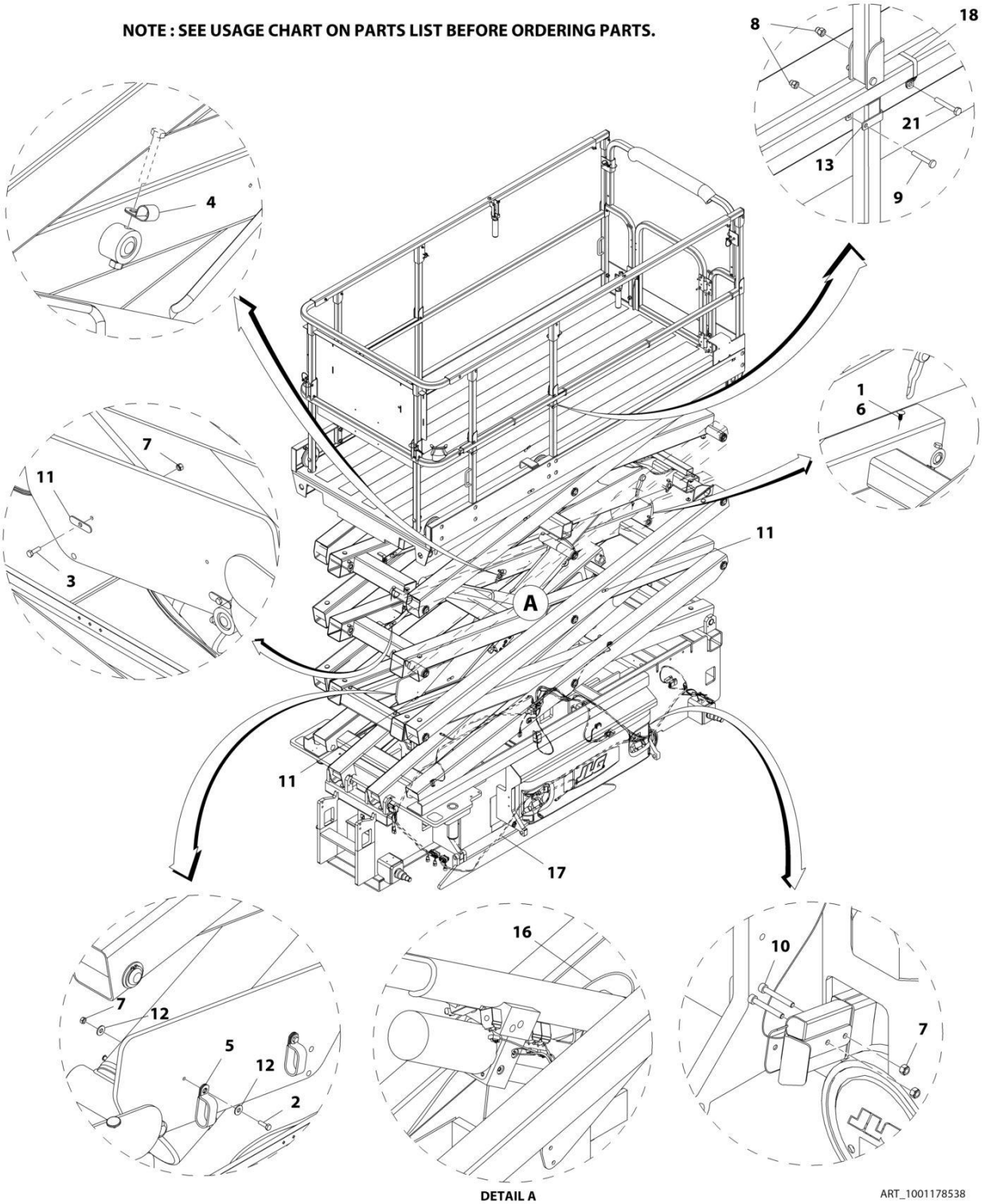


FIGURE 7-17. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178538	Ref	CABLE INSTALLATION	E
		Ref	Usage Chart	
		Ref	Belgium Built Machines **(SN 1200025024 through 1200025120)**	
		Ref	China Built Machines **(SN B200020297 through B200035317)**	
		Ref	Mexico Built Machines **(SN M200000100 through M200039292)**	
		Ref	Korea Specs **(SN M200017748 through M200039292)**	
		Ref	USA Built Machines	
		Ref	ANSI Export and China Specs **(SN 0200248241 to Present)**	
		Ref	Japanese Specs **(SN 0200258070 to Present)**	
		Ref	Australian and CE Specs (All Machines)	
1	0100048	AR	Compound, Sealing	
2	0700614	2	Bolt, M6 x 30	
3	0760610	2	Bolt M6 x 20	
4	1320318	1	Clamp	
5	1321716	2	Clamp	
6	1380158	21	Clip, Retainer	
7	3290605	6	Nut M6	
8	3290606	6	Nut M6	
9	4010616	2	Screw M6 x 40	
10	4031713	2	Capscrew M6 x 45	
11	4740545	8	Washer	
12	4751400	4	Washer 1/4	
13	1001094175	2	Clamp	
14	1001178684	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
15	1001096707	1	Platform Harness (Includes Item 18) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200239382 through 0200262556, SN 1200025024 through 1200025120, SN B200020297 through B200035317, SN M200000100 through M200010214)**	
15	1001201244	1	Platform Harness (Includes Item 18) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200262556 to Present, SN M200010215 through M200039292)**	
16	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
17	1001187231	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	
18	1001094180	NLA	Clamp (Use p/n 1001210760) **(SN 0200239382 through 0200257625, SN 1200025024 through 1200025120, SN B200020297 through B200035317, SN M200000100 through M200002833)**	
18	1001210433	NLA	Clamp (Use p/n 1001210760) **(SN 0200257626 to Present, SN M200002833 through M200039292)**	
19	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
20	1001178543	1	Pump Power Harness (Not Shown - See PUMP POWER HARNESS for Breakdown)	
21	0760606	4	Bolt M6 x 12	

FIGURE 7-18. CABLES INSTALLATION

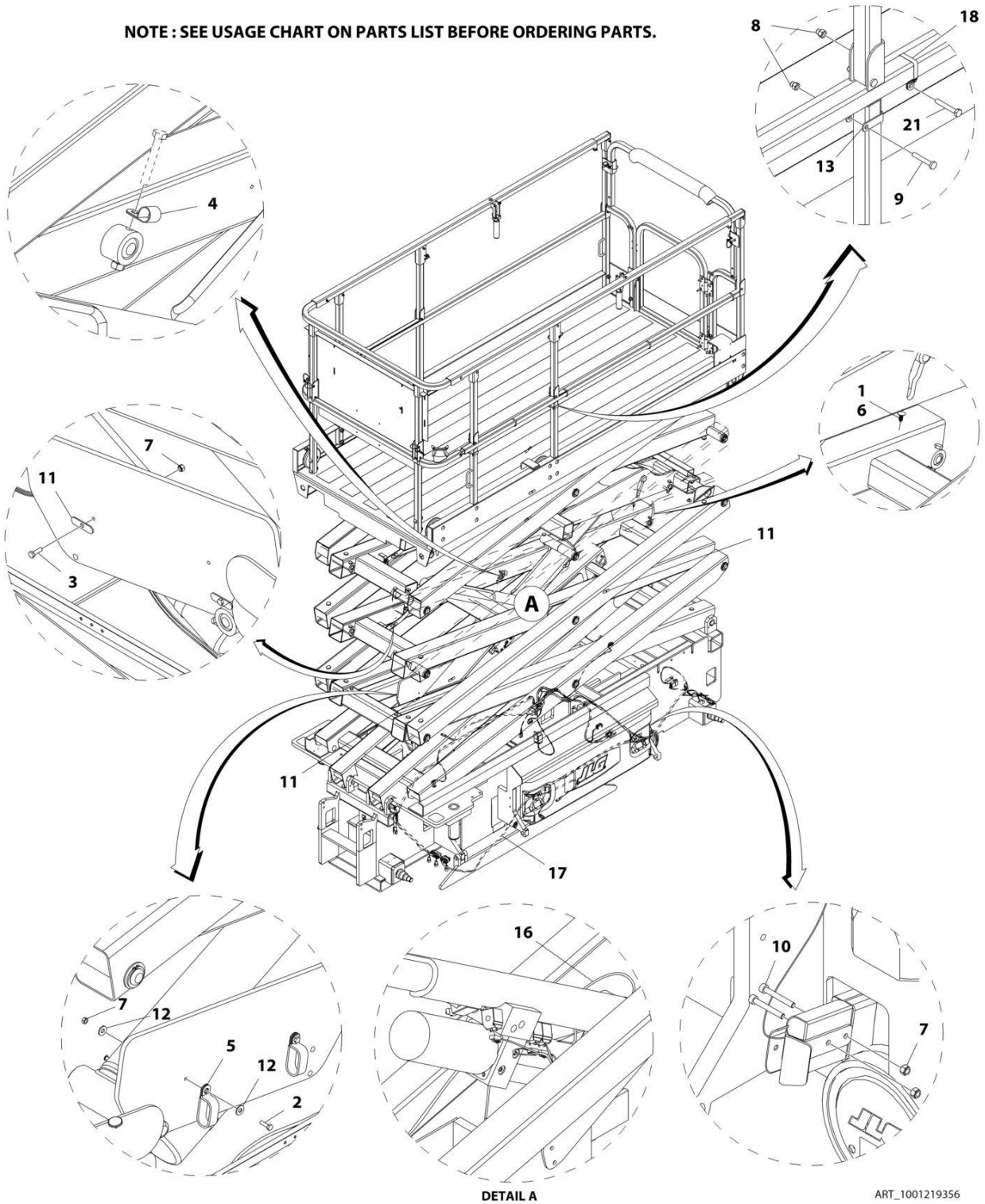


FIGURE 7-18. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219356	Ref	CABLE INSTALLATION	B
		Ref	Usage Chart	
		Ref	Belgium Built Machines **(SN 1200025121 to Present)**	
		Ref	China Built Machines **(SN B200035318 to Present)**	
		Ref	ANSI Export, Australian, CE, Japanese, Korea and China Specs	
1	0100048	AR	Compound, Sealing	
2	0700614	2	Bolt, M6 x 30	
3	0760610	2	Bolt M6 x 20	
4	1320318	1	Clamp	
5	1321716	2	Clamp	
6	1380158	21	Clip, Retainer	
7	3290605	6	Nut M6	
8	3290606	6	Nut M6	
9	4010616	2	Screw M6 x 40	
10	4031713	2	Capscrew M6 x 45	
11	4740545	8	Washer	
12	4751400	4	Washer 1/4	
13	1001094175	2	Clamp	
14	1001178684	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
15	1001096707	1	Platform Harness (Includes Item 18) (Not Shown - See PLATFORM HARNESS for Breakdown)	
16	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
17	1001187231	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	
18	1001220668	4	Clamp	
19	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
20	1001178543	1	Pump Power Harness (Not Shown - See PUMP POWER HARNESS for Breakdown)	
21	0760606	4	Bolt M6 x 12	
21	0760605	4	Bolt M6 x 10	

FIGURE 7-19. CABLES INSTALLATION

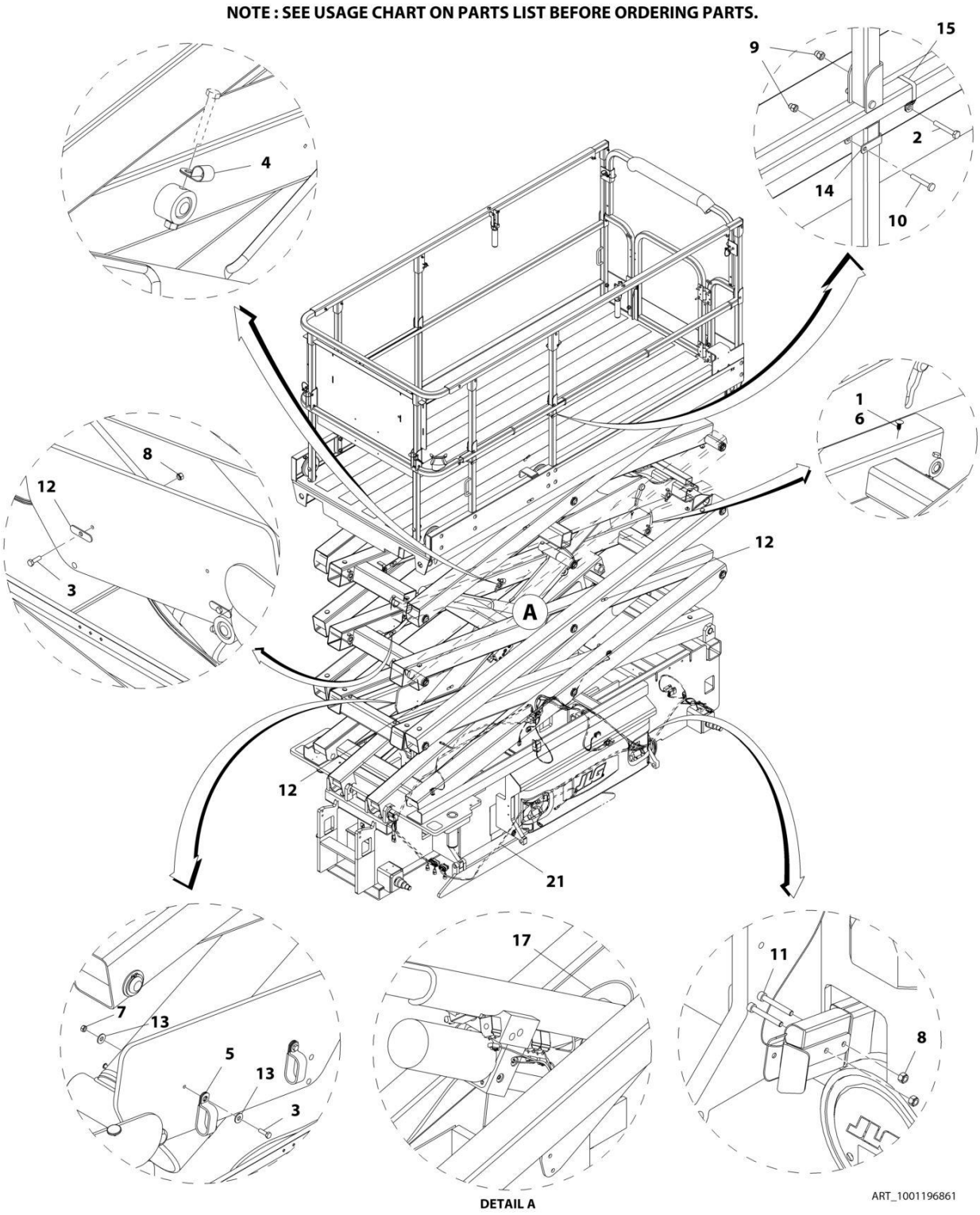


FIGURE 7-19. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196861	Ref	CABLE INSTALLATION	B
		Ref	Usage Chart	
		Ref	China Built Machines **(SN B200020297 through B200035317)**	
		Ref	Mexico Built Machines **(SN M200000100 through M200039292)**	
		Ref	USA Built Machines	
		Ref	UL Machines (All Machines)	
1	0100048	1	Compound, Sealing	
2	0760606	4	Bolt M6 x 12	
3	0760610	4	Bolt M6 x 20	
4	1320318	1	Clamp	
5	1321716	2	Clamp	
6	1380158	21	Clip, Retainer	
7	3290601	2	Nut M6	
8	3290605	4	Nut M6	
9	3290606	6	Nut M6	
10	4010616	2	Screw M6 x 40	
11	4031713	2	Capscrew M6 x 45	
12	4740545	8	Washer	
13	4751400	4	Washer 1/4	
14	1001094175	2	Clamp	
15	1001194180	NLA	Clamp (Use p/n 1001210760) **(SN 0200239382 through 0200257625, SN B200020297 through B200035317, SN M200000100 through M200002832)**	
15	1001210433	NLA	Clamp (Use p/n 1001210760) **(SN 0200257626 to Present, SN M200002833 through M200039292)**	
16	1001096707	1	Platform Harness (Includes Item 15) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200239382 through 0200262555, SN B200020297 through B200035317, SN M200000100 through M200010214)**	
16	1001201244	1	Platform Harness (Includes Item 15) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200262556 to Present, SN M200010215 through M200039292)**	
17	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
18	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
19	1001178543	1	Pump Power Harness (Not Shown - See Pump Power Harness for Breakdown)	
20	1001178686	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
21	1001196837	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	

FIGURE 7-20. CABLES INSTALLATION

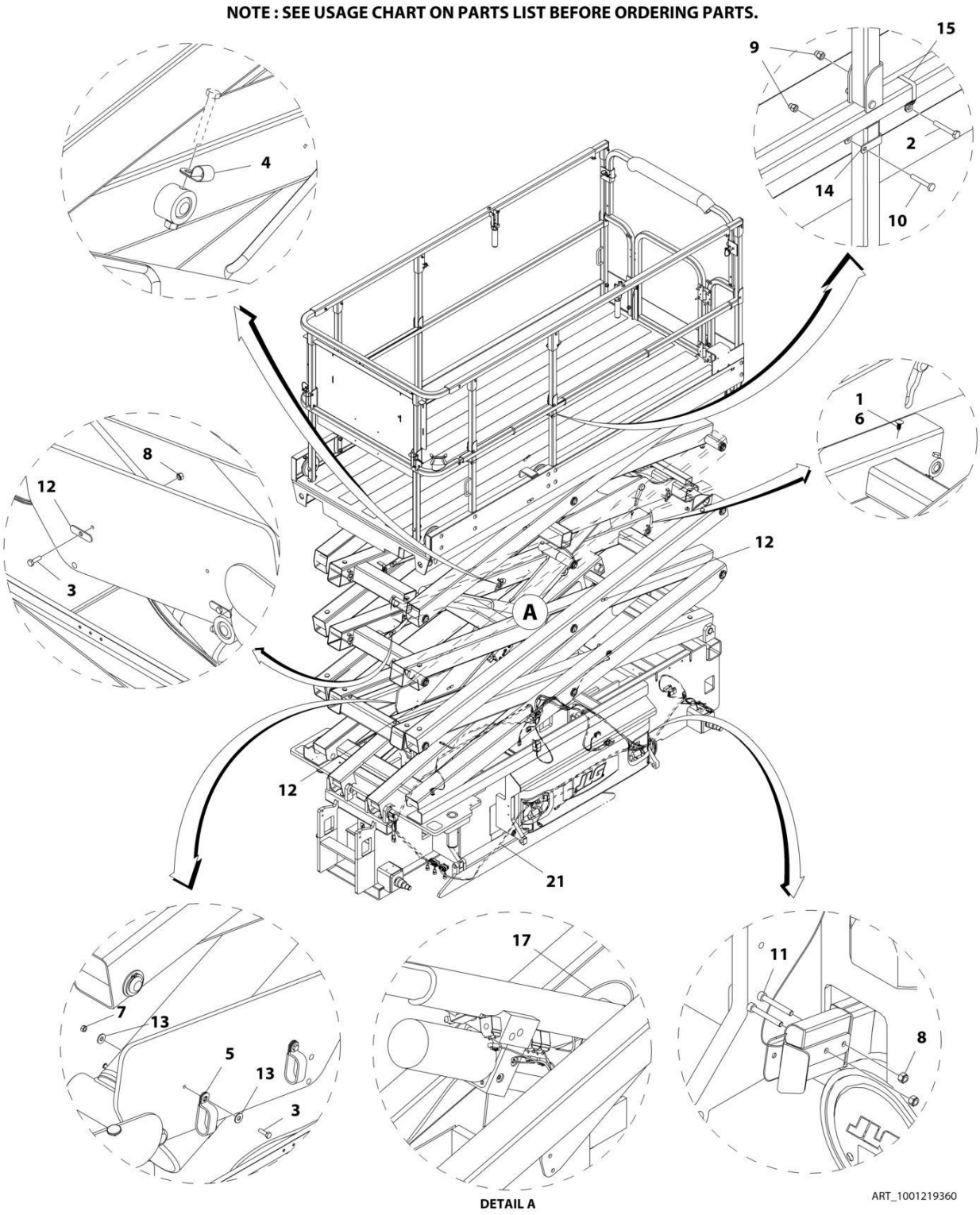


FIGURE 7-20. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001219360	Ref	CABLE INSTALLATION	C
		Ref	Usage Chart	
		Ref	China Built Machines **(SN B200035318 to Present)**	
		Ref	UL Machines	
1	0100048	AR	Compound, Sealing	
2	0760606	4	Bolt M6 x 12	
2	0760605	4	Bolt M6 x 10	
3	0760610	4	Bolt M6 x 20	
4	1320318	1	Clamp	
5	1321716	2	Clamp	
6	1380158	21	Clip, Retainer	
7	3290601	2	Nut M6	
8	3290605	4	Nut M6	
9	3290606	6	Nut M6	
10	4010616	2	Screw M6 x 40	
11	4031713	2	Capscrew M6 x 45	
12	4740545	8	Washer	
13	4751400	4	Washer 1/4	
14	1001094175	2	Clamp	
15	1001220668	4	Clamp	
16	1001096707	1	Platform Harness (Includes Item 15) (Not Shown - See PLATFORM HARNESS for Breakdown)	
17	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
18	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
19	1001178543	1	Pump Power Harness (Not Shown - See Pump Power Harness for Breakdown)	
20	1001178686	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
21	1001196837	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	

FIGURE 7-21. CHARGER CORD PLUG INSTALLATION - 110V IEC YELLOW (CE SPEC ONLY)

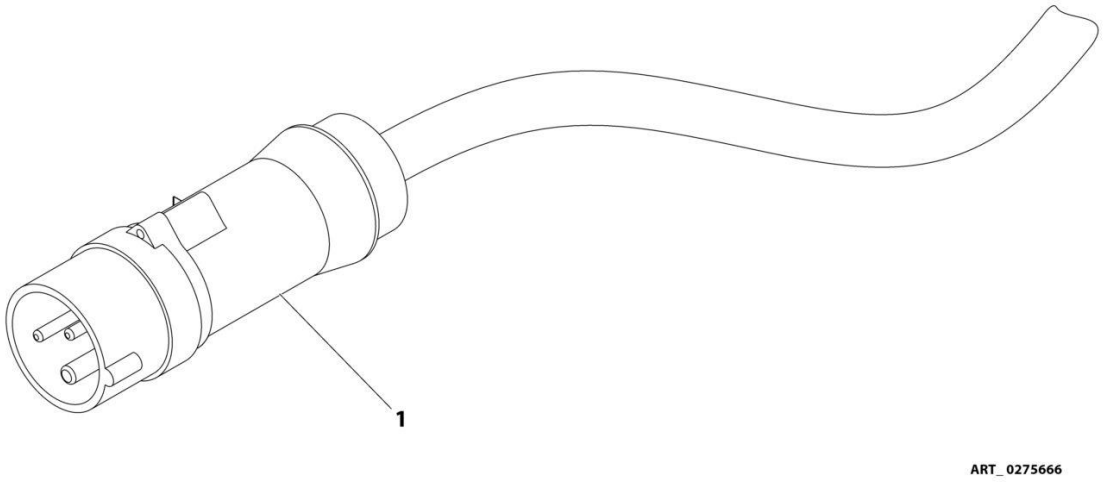


FIGURE 7-21. CHARGER CORD PLUG INSTALLATION - 110V IEC YELLOW (CE SPEC ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275666	Ref	CHARGER CORD PLUG INSTALLATION - 110V IEC YELLOW PLUG	B
1	4461196	1	Plug	

FIGURE 7-22. CHARGER CORD PLUG INSTALLATION - 220V IEC BLUE (CE SPEC)

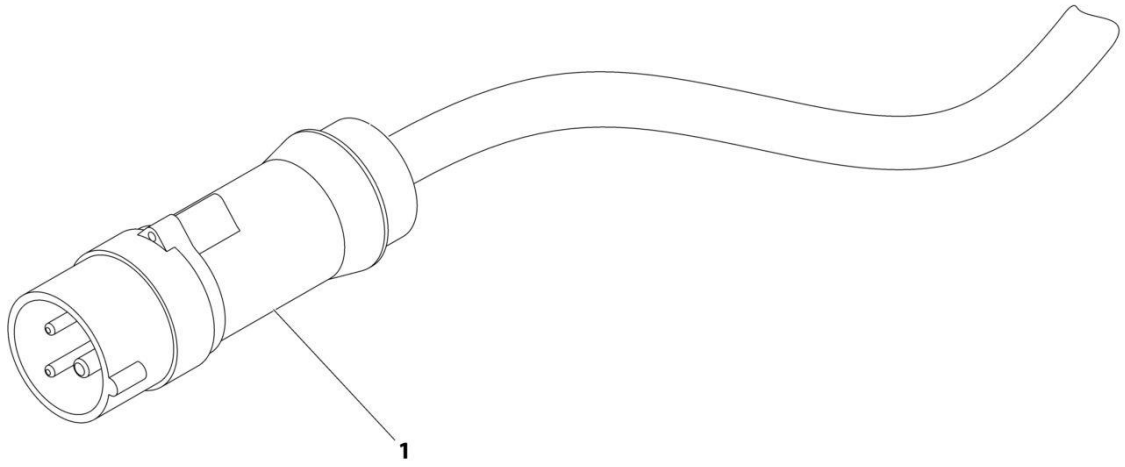


FIGURE 7-22. CHARGER CORD PLUG INSTALLATION - 220V IEC BLUE (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275667	Ref	CHARGER CORD PLUG INSTALLATION - 220V IEC BLUE PLUG	B
1	4461199	1	Plug	

FIGURE 7-23. CHARGER CORD PLUG INSTALLATION - 220V AFSINT 107 (CE SPEC)

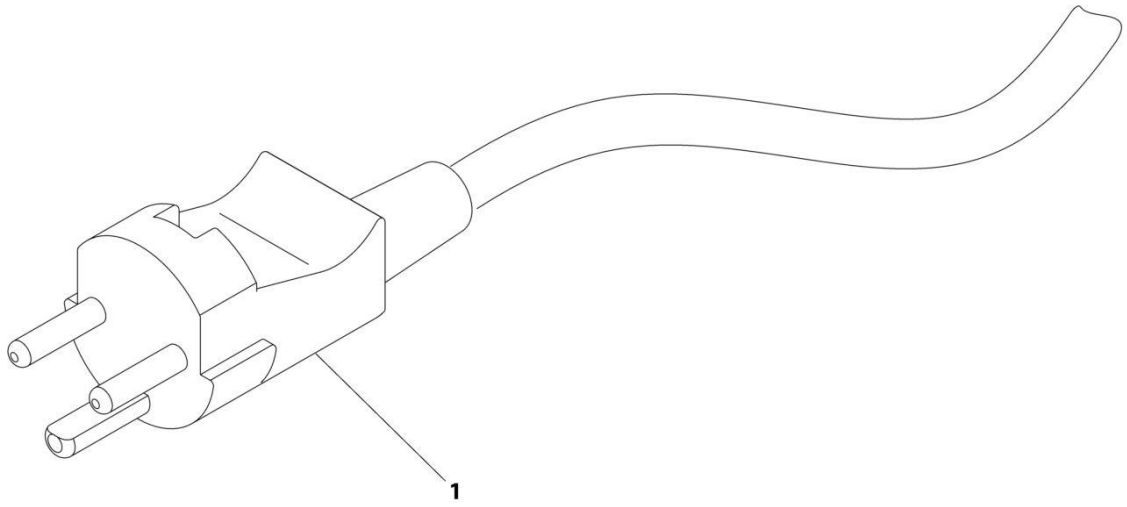


FIGURE 7-23. CHARGER CORD PLUG INSTALLATION - 220V AFSINT 107 (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275665	Ref	CHARGER CORD PLUG INSTALLATION - 220V AFSINT 107 KEYED GROUND	B
1	4461249	1	Plug	

FIGURE 7-24. CHARGER CORD PLUG INSTALLATION - 220V CEE7 POST GROUND (CE SPEC)

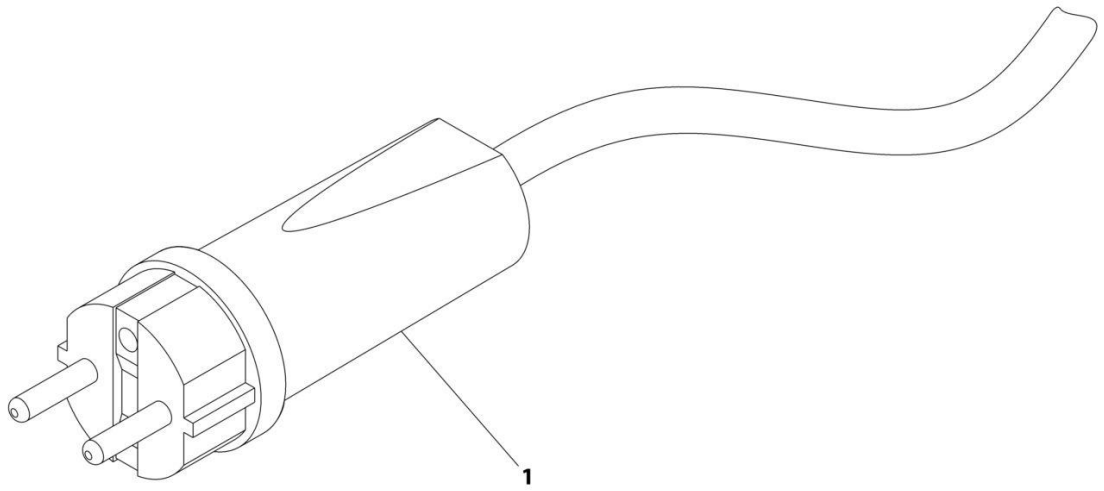
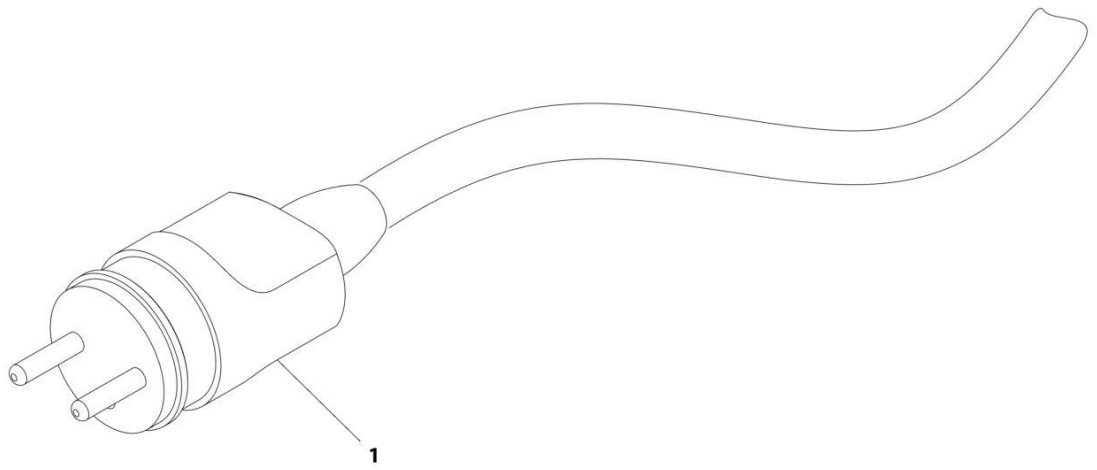


FIGURE 7-24. CHARGER CORD PLUG INSTALLATION - 220V CEE7 POST GROUND (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275664	Ref	CHARGER CORD PLUG INSTALLATION - 220V CEE7 SIDE GROUND	A
1	4461205	1	Plug	

FIGURE 7-25. CHARGER CORD PLUG INSTALLATION - 220V POST GROUND (CE SPEC)

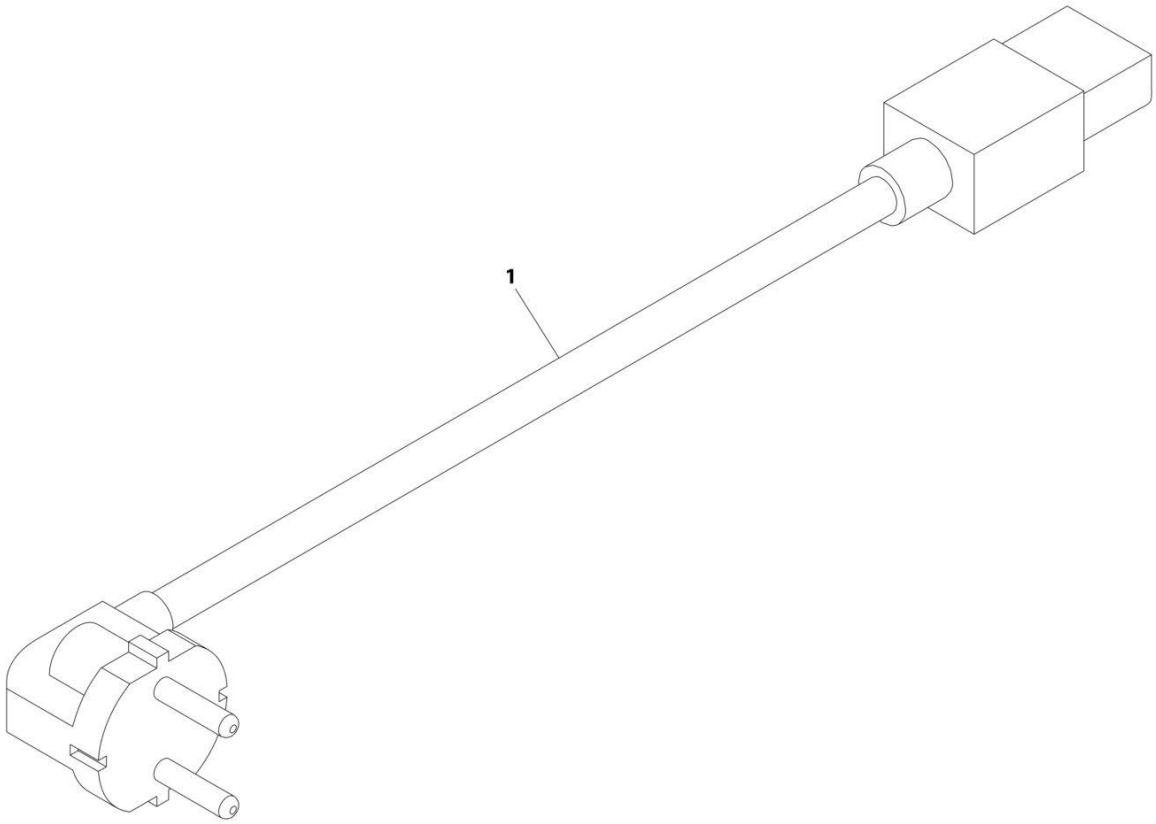


ART_0275663

FIGURE 7-25. CHARGER CORD PLUG INSTALLATION - 220V POST GROUND (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275663	Ref	CHARGER CORD PLUG INSTALLATION - 220V POST GROUND (CE SPEC)	C
1	4461202	NLA	Plug (Use p/n 44601205) **(SN 0200239382 through 0200256617, SN B200020297 through B200037371, SN M200000100 through M200002249)**	
1	4461205	1	Plug **(SN 0200256618 to Present, SN 1200025021 to Present, SN B200037372 to Present, SN M200002250 through M200039292)**	

FIGURE 7-26. CHARGER CORD PLUG INSTALLATION (KOREA SPEC)



ART_1001221984

FIGURE 7-26. CHARGER CORD PLUG INSTALLATION (KOREA SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001221984	Ref	CHARGER CORD PLUG INSTALLATION	A
1	1001221949	1	AC Input Cord and Plug	

FIGURE 7-27. CHASSIS HARNESS

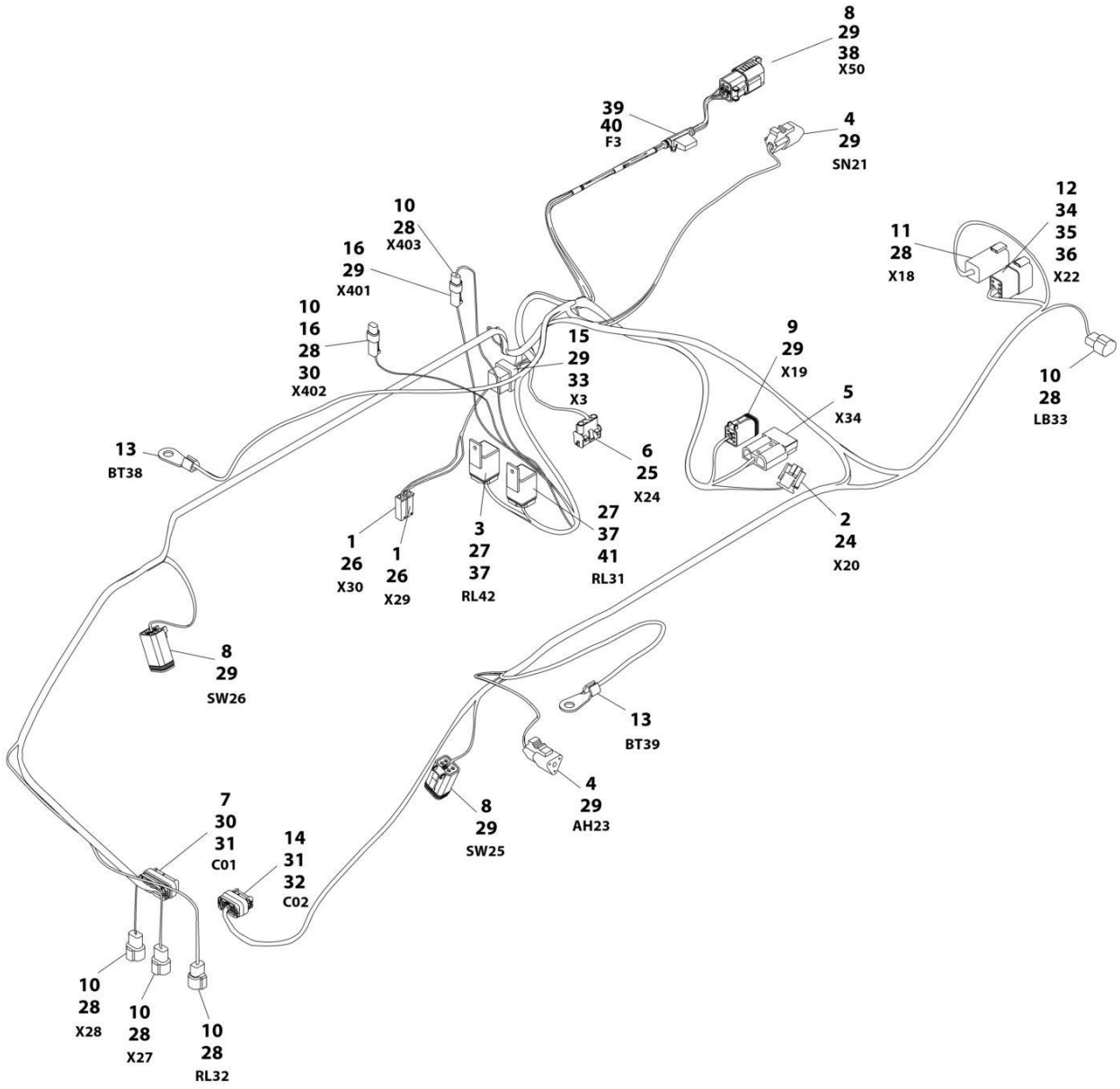


FIGURE 7-27. CHASSIS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001187231	Ref	CHASSIS HARNESS	H
1	4460260	2	Housing, Terminal	
2	4460320	1	Plug, Male - 2 Position	
3	4460374	1	Plug, Relay	
4	4460539	2	Plug, Male - 3 Position	
5	4460648	1	Connector, Anderson	
6	4460761	1	Receptacle, Female - 4 Position	
7	4460873	1	Connector - 35 Position (Black)	
8	4460884	AR	Plug, Male - 4 Position	
9	4460894	1	Plug, Male - 6 Position	
10	4460897	5	Receptacle, Female - 2 Position	
11	4460899	1	Receptacle, Female - 6 Position	
12	4460931	1	Receptacle, Female - 8 Position	
13	4460986	2	Terminal, Ring	
14	1001096138	1	Connector - 23 Position	
15	1001115076	1	Connector - 18 Position	
16	4460891	2	Plug, Male - 2 Position	
24	4460226	2	Socket, Female	
25	4460227	4	Pin, Male	
26	4460259	2	Terminal	
27	4460375	8	Terminal	
28	4460464	18	Pin, Male	
29	4460465	AR	Socket, Female	
30	4460466	9	Seal	
31	4460871	39	Socket, Female	
32	4460905	20	Seal	
33	4460942	2	Socket, Female	
34	4460943	3	Pin, Male	
35	0840058	1	Boot	
36	2820028	3 ft/0.9m	Heat Shrink	
37	1001097347	2	Relay	
38	1001192401	1	Cap, Dust **(SN 0200248842 to Present, SN 1200025021 to Present, SN B200025575 to Present, SN M200000140 through M200039292)**	
39	2400060	1	Fuseholder with Cover **(SN 0200248842 to Present, SN 1200025021 to Present, SN B200025575 to Present, SN M200000140 through M200039292)**	
40	8229242	1	Fuse 5Amp **(SN 0200248842 to Present, SN 1200025021 to Present, SN B200025575 to Present, SN M200000140 through M200039292)**	
41	4460374	1	Plug, Relay **(SN 0200239382 through 0200253043, SN B200020297 through B200028157, SN M200000100 through M200000687)**	
41	1001117057	1	Plug, Relay **(SN 0200253044 to Present, SN 1200025021 to Present, SN B2000281158 to Present, SN M200000688 through M200039292)**	

FIGURE 7-28. CHASSIS HARNESS - UL SPEC

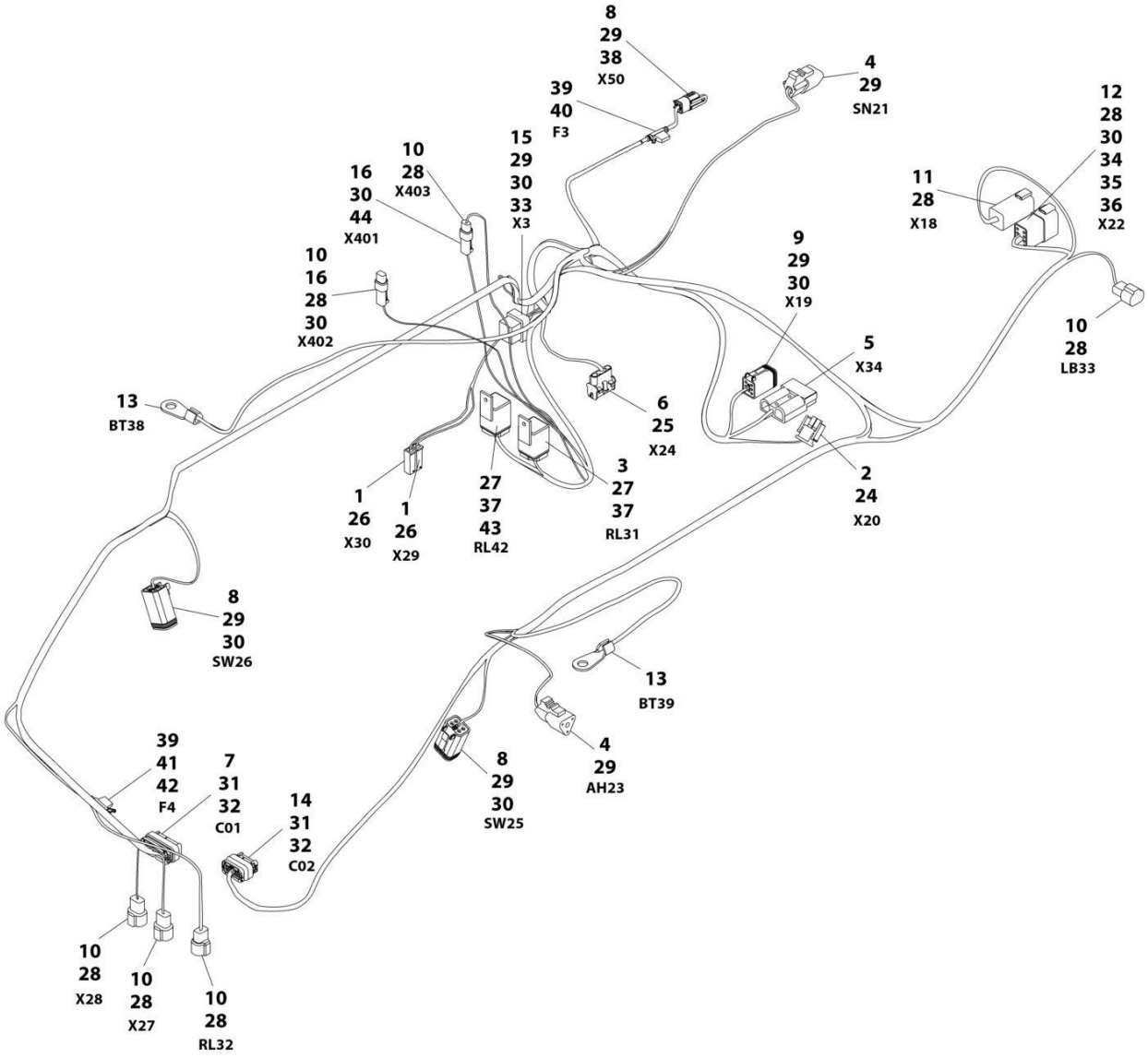


FIGURE 7-28. CHASSIS HARNESS - UL SPEC

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196837	Ref	CHASSIS HARNESS - UL SPEC	D
1	4460260	2	Housing, Terminal	
2	4460320	1	Plug, Male - 2 Position	
3	4460374	1	Plug, Relay	
4	4460539	2	Plug, Male - 3 Position	
5	4460648	1	Connector, Anderson	
6	4460761	1	Receptacle, Female - 4 Position	
7	4460873	1	Connector - 35 Position (Black)	
8	4460884	3	Plug, Male - 4 Position	
9	4460894	1	Plug, Male - 6 Position	
10	4460897	6	Receptacle, Female - 2 Position	
11	4460899	1	Receptacle, Female - 6 Position	
12	4460931	1	Receptacle, Female - 8 Position	
13	4460986	2	Terminal, Ring	
14	1001096138	1	Connector - 23 Position	
15	1001115076	1	Connector - 18 Position	
16	4460891	2	Plug, Male - 2 Position	
24	4460226	2	Socket, Female	
25	4460227	4	Pin, Male	
26	4460259	2	Terminal	
27	4460375	AR	Terminal	
28	4460464	AR	Pin, Male	
29	4460465	AR	Socket, Female	
30	4460466	AR	Seal	
31	4460871	39	Socket, Female	
32	4460905	AR	Seal	
33	4460942	2	Socket, Female	
34	4460943	3	Pin, Male	
35	0840058	1	Boot	
36	2820028	3 ft/0.9m	Heat Shrink	
37	1001097347	2	Relay	
38	1001192401	1	Cap, Dust	
39	2400060	2	Fuse Holder with Cover	
40	8229242	1	Fuse 5Amp	
41	1001196838	1	Fuse 3Amp	
42	2820152	AR	Heat Shrink	
43	4460374	1	Plug, Relay **(SN 0200239382 through 0200260033, SN B200020297 through B200034609, SN M200000100 through M200005829)**	
43	1001117057	1	Plug, Relay **(SN 0200260033 to Present, SN B200034609 to Present, SN M200005829 through M200039292)**	
44	1001157890	1	Terminal **(SN 0200260033 to Present, SN B200034609 to Present, SN M200005829 through M200039292)**	

FIGURE 7-29. CYLINDER HARNESS

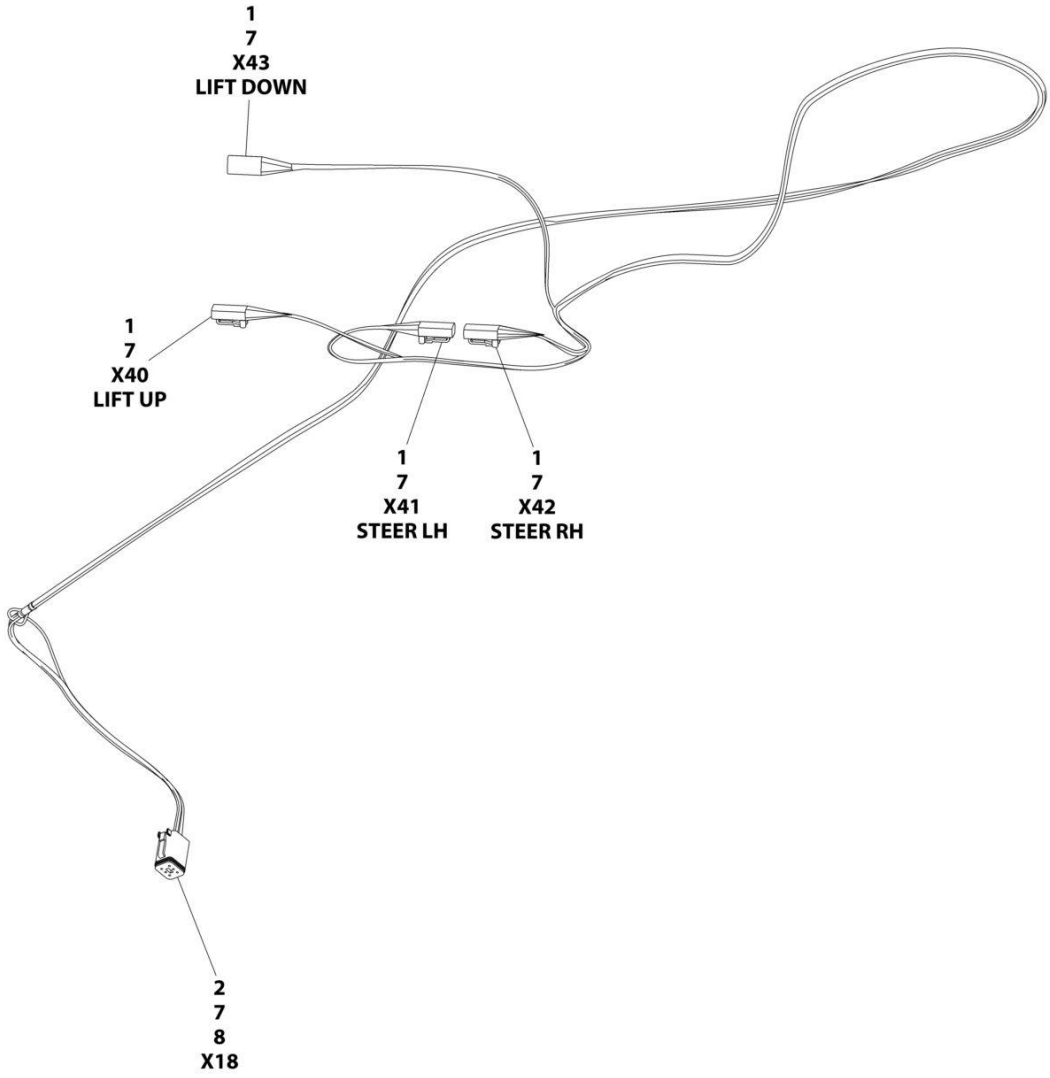


FIGURE 7-29. CYLINDER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115002	Ref	CYLINDER HARNESS	D
1	4460891	4	Plug, Male - 2 Position	
2	4460894	1	Plug, Male - 6 Position	
7	4460465	14	Socket, Female	
8	0840059	1	Boot	

FIGURE 7-30. DRIVE CABLE ASSEMBLY

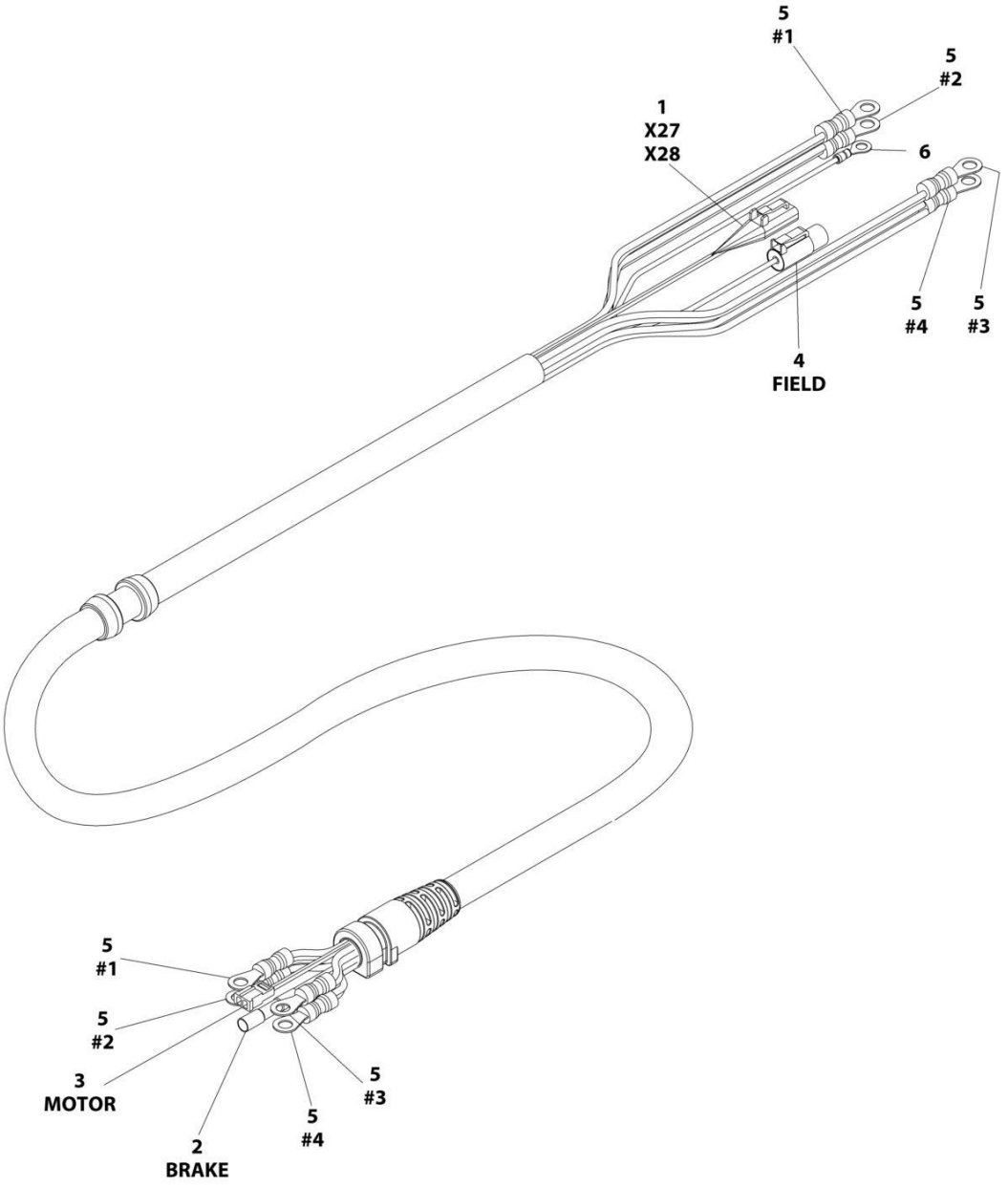


FIGURE 7-30. DRIVE CABLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001132439	Ref	DRIVE CABLE ASSEMBLY	B
1	4460891	1	Plug, Male - 2 Position	
1	4460465	2	Socket, Female	
2	70001442	1	Plug, Male - 2 Position	
2	See Note	NSS	Socket, Female (Note: Not Available for Purchase)	
3	70001443	1	Plug, Male - 2 Position	
3	70001444	2	Socket, Female	
4	4461261	1	Plug, Male - 1 Position	
4	4460509	1	Terminal	
5	See Note	NSS	Terminal, Ring (Note: Not Available for Purchase)	
6	See Note	NSS	Terminal, Ring (Note: Not Available for Purchase)	

FIGURE 7-31. DRIVE FIELD CONNECTION HARNESS

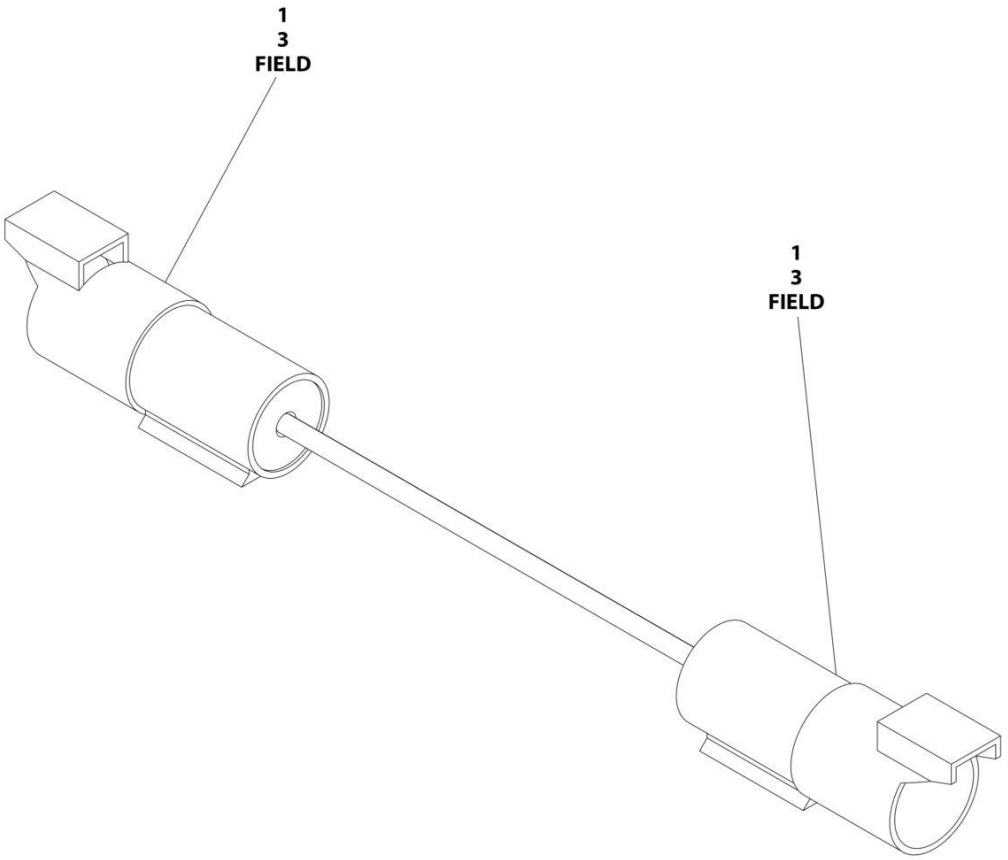


FIGURE 7-31. DRIVE FIELD CONNECTION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923602	Ref	DRIVE FIELD CONNECTION HARNESS	C
1	4461260	2	Receptacle, Female - 1 Position	
3	4460508	2	Pin, Male	

FIGURE 7-32. GROUND CONTROL BOX HARNESS (SN B200020297 through B200023345)

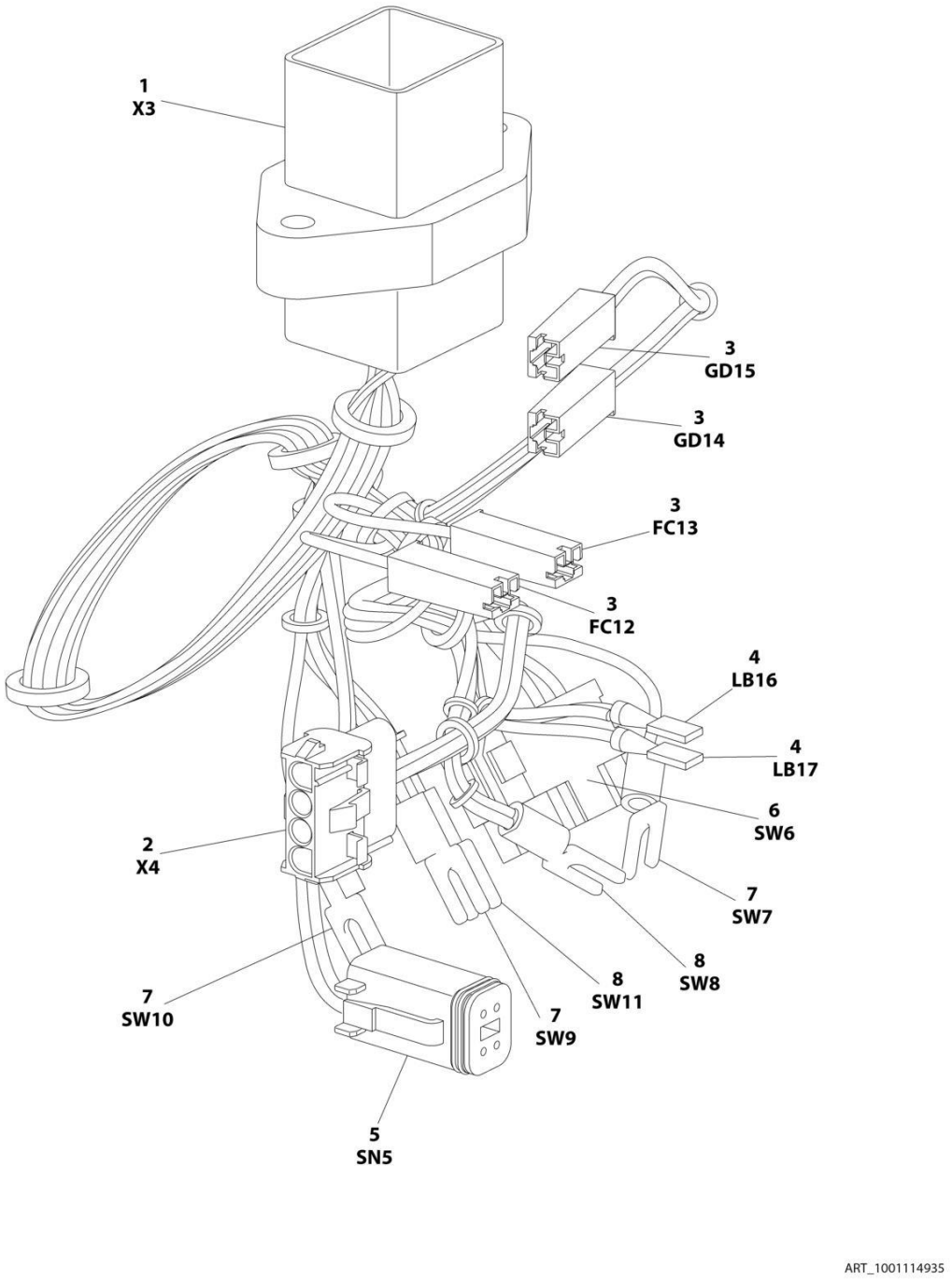


FIGURE 7-32. GROUND CONTROL BOX HARNESS (SN B200020297 through B200023345)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114935	Ref	GROUND CONTROL BOX HARNESS	B
1	See Note	NSS	Connector - 18 Position (Note: Not Available for Purchase)	
1	See Note	NSS	Terminal (Note: Not Available for Purchase)	
2	4460961	1	Receptacle, Female - 4 Position	
2	4460267	4	Pin, Male	
3	4460260	4	Housing, Terminal	
3	4460259	4	Terminal	
4	See Note	NSS	Terminal	
5	4461077	1	Plug, Male - 4 Position	
5	4460944	4	Socket, Female	
6	4460418	1	Connector - 6 Position	
6	4460419	3	Terminal	
7	See Note	NSS	Terminal, Fork (Note: Not Available for Purchase)	
8	See Note	NSS	Terminal, Fork (Note: Not Available for Purchase)	

FIGURE 7-33. GROUND CONTROL BOX HARNESS (SN 0200239382 to Present, SN 1200025021 to Present, SN B200023346 to Present, SN M200000100 to Present)

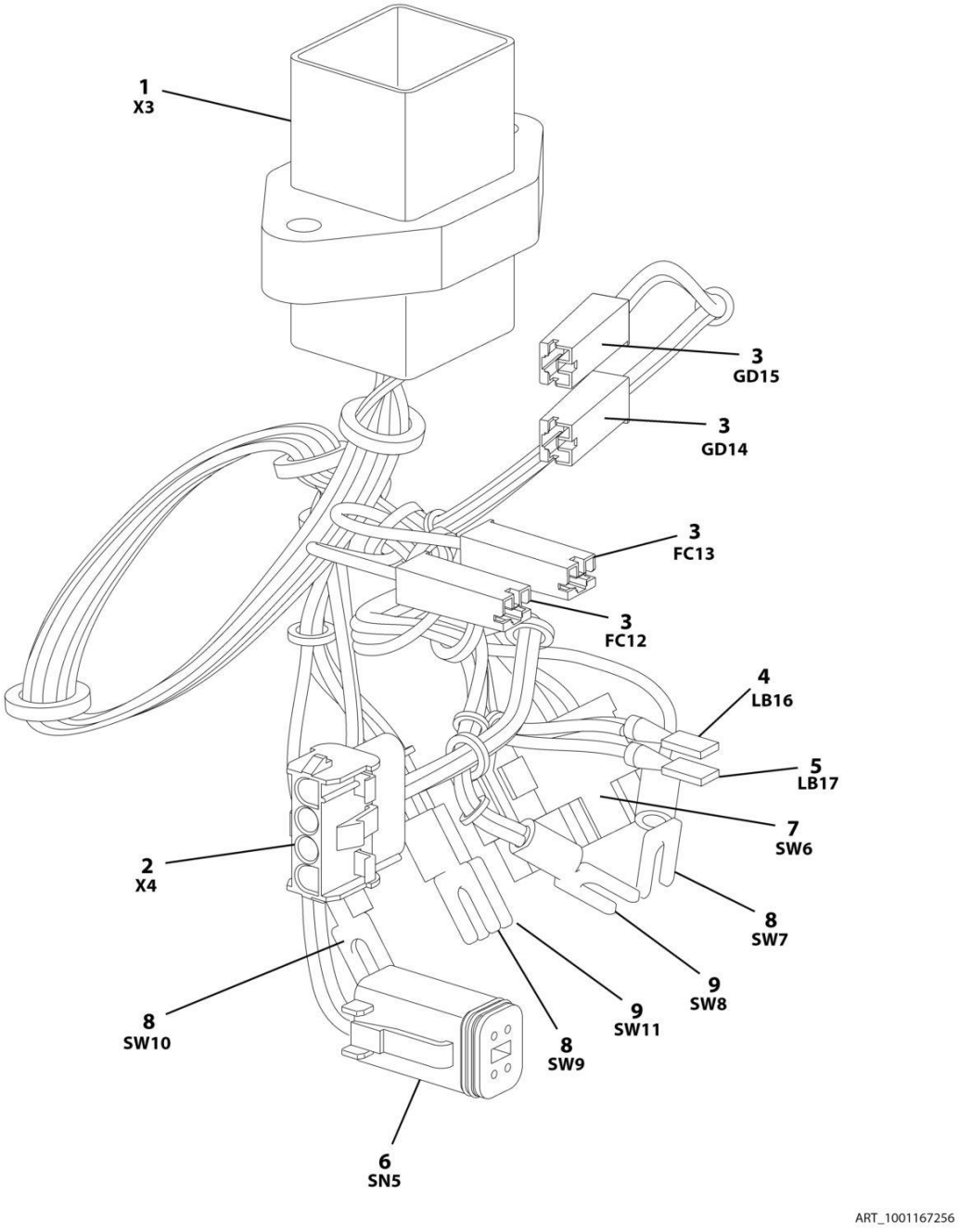


FIGURE 7-33. GROUND CONTROL BOX HARNESS (SN 0200239382 to Present, SN 1200025021 to Present, SN B200023346 to Present, SN M200000100 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001167256	Ref	GROUND CONTROL BOX HARNESS	E
1	1001115077	1	Connector - 18 Position	
1	4460464	14	Pin, Male	
1	4460943	2	Pin, Male	
1	4460466	2	Seal	
2	1001119032	1	Connector - 4 Position	
2	4460268	4	Socket, Female	
3	4460260	4	Housing, Terminal	
3	4460259	4	Terminal	
4	1001202618	1	Terminal	
5	1001202619	1	Terminal	
6	4461077	1	Connector - 4 Position **(SN 0200239382 through 0200261547, SN B200023346 through B200038259, SN M200000100 through M200007511)**	
6	4460884	1	Connector - 4 Position **(SN 0200261548 to Present, SN 1200025021 to Present, SN B200038260 to Present, SN M200007512 through M200039292)**	
6	4460944	4	Socket, Female	
7	4460418	1	Connector - 6 Position	
7	1001159186	3	Terminal	
8	4460183	3	Terminal, Fork	
9	4460115	2	Terminal, Fork	

FIGURE 7-34. GROUND CONTROL BOX HARNESS - NO LSS (SN 0200266380 to Present, SN B200043104 to Present, SN M200012171 to Present)

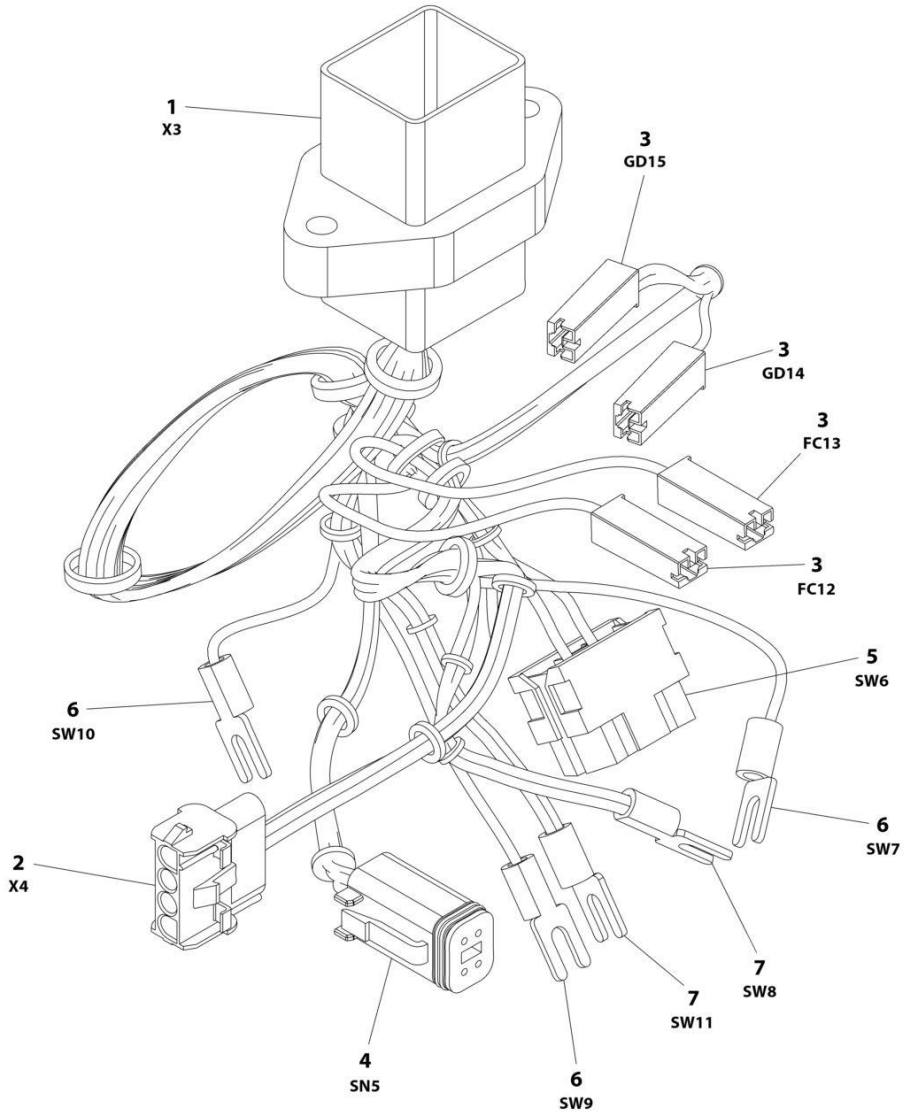


FIGURE 7-34. GROUND CONTROL BOX HARNESS - NO LSS (SN 0200266380 to Present, SN B200043104 to Present, SN M200012171 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001208641	Ref	GROUND CONTROL BOX HARNESS - NO LSS	A
1	1001115077	1	Connector - 18 Position	
1	4460464	13	Pin, Male	
1	4460943	2	Pin, Male	
1	4460466	3	Seal	
2	1001119032	1	Connector - 4 Position	
2	4460268	4	Socket, Female	
3	4460260	4	Housing, Terminal	
3	4460259	4	Terminal	
4	4460884	1	Connector - 4 Position	
4	4460918	4	Socket, Female	
5	4460418	1	Connector - 6 Position	
5	1001159186	3	Terminal	
6	4460183	3	Terminal, Fork	
7	4460115	2	Terminal, Fork	

FIGURE 7-35. GROUND TO PLATFORM HARNESS

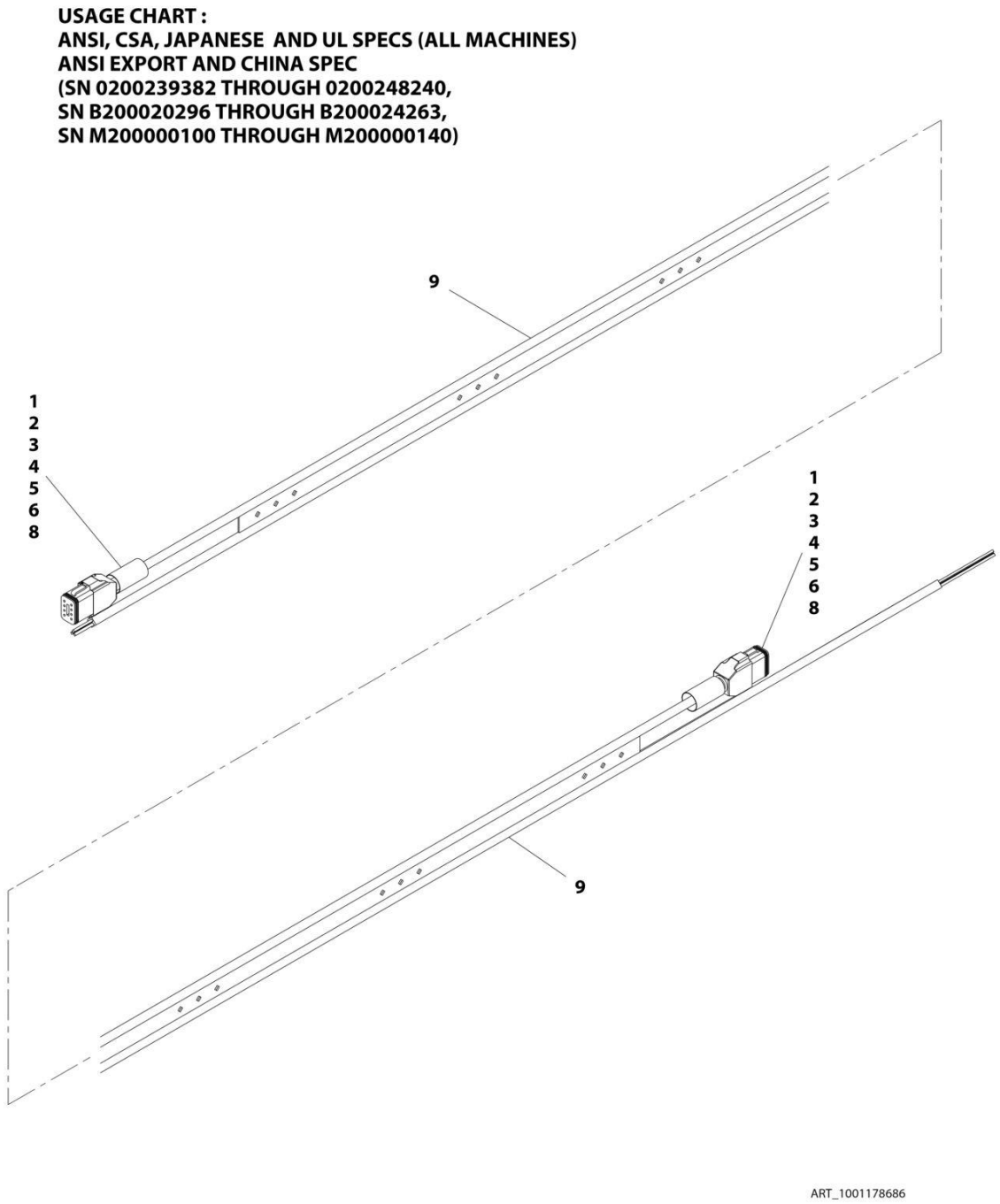


FIGURE 7-35. GROUND TO PLATFORM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178686	Ref	GROUND TO PLATFORM HARNESS	E
		Ref	Usage Chart	
		Ref	ANSI, CSA, Japanese and UL Specs (All Machines)	
		Ref	ANSI, Export and China Spec **(SN 0200239382 through 0200248240, SN B200020296 through B200024263, SN M200000100 through M200000140)**	
1	0840061	2	Boot	
2	2820026	AR	Insulator, Clear Tubing	
3	2820028	AR	Heat Shrink	
4	4460465	8	Socket, Female	
5	4460466	2	Plug, Terminal	
6	4460930	2	Plug, Male - 8 Position	
7	4460943	3	Pin, Male (Not Shown)	
8	4460944	6	Socket, Female (Gold)	
9	1001178682	1	Cable	

FIGURE 7-36. GROUND TO PLATFORM HARNESS

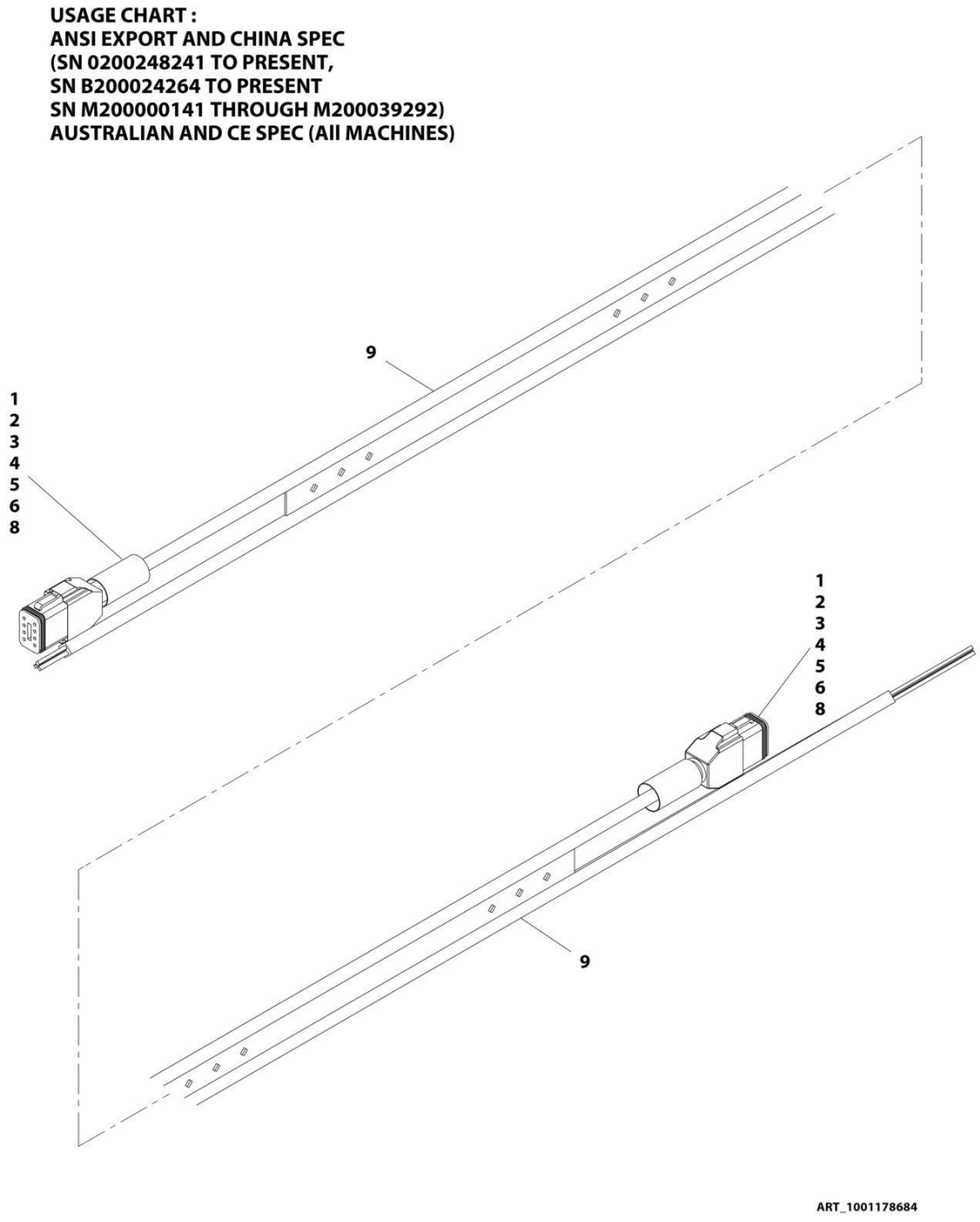


FIGURE 7-36. GROUND TO PLATFORM HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178684	Ref	GROUND TO PLATFORM HARNESS	D
		Ref	Usage Chart	
		Ref	ANSI Export and China Spec **(SN 0200248241 to Present, SN 1200025021 to Present, SN B200024264 to Present, SN M200000141 through M200039292)**	
		Ref	Australian and CE Spec (All Machines)	
1	0840061	2	Boot	
2	2820026	AR	Insulator, Clear Tubing	
3	2820028	AR	Heat Shrink	
4	4460465	8	Socket, Female	
5	4460466	2	Plug, Terminal	
6	4460930	2	Plug, Male - 8 Position	
7	4460943	3	Pin, Male (Not Shown)	
8	4460944	6	Socket, Female (Gold)	
9	1001178682	1	Cable	

FIGURE 7-37. MDI (MULTIFUNCTION DIGITAL INDICATOR) HARNESS

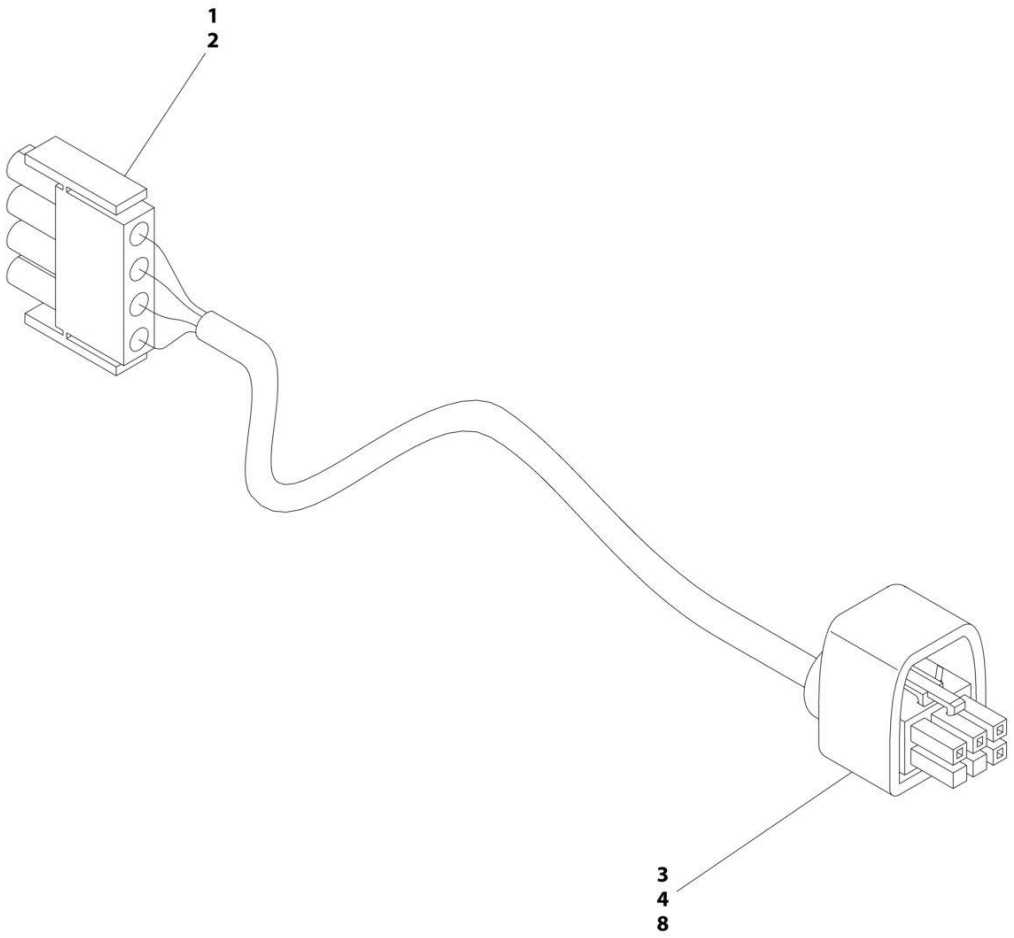


FIGURE 7-37. MDI (MULTIFUNCTION DIGITAL INDICATOR) HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001093556	Ref	MDI (MULTIFUNCTION DIGITAL INDICATOR) HARNESS	D
1	4460226	4	Socket, Female	
2	4460321	1	Plug, Male - 4 Position	
3	4460868	1	Plug, Male - 6 Position	
4	4460877	4	Terminal	
8	1001094105	1	Boot	

FIGURE 7-38. PLATFORM BOX HARNESS

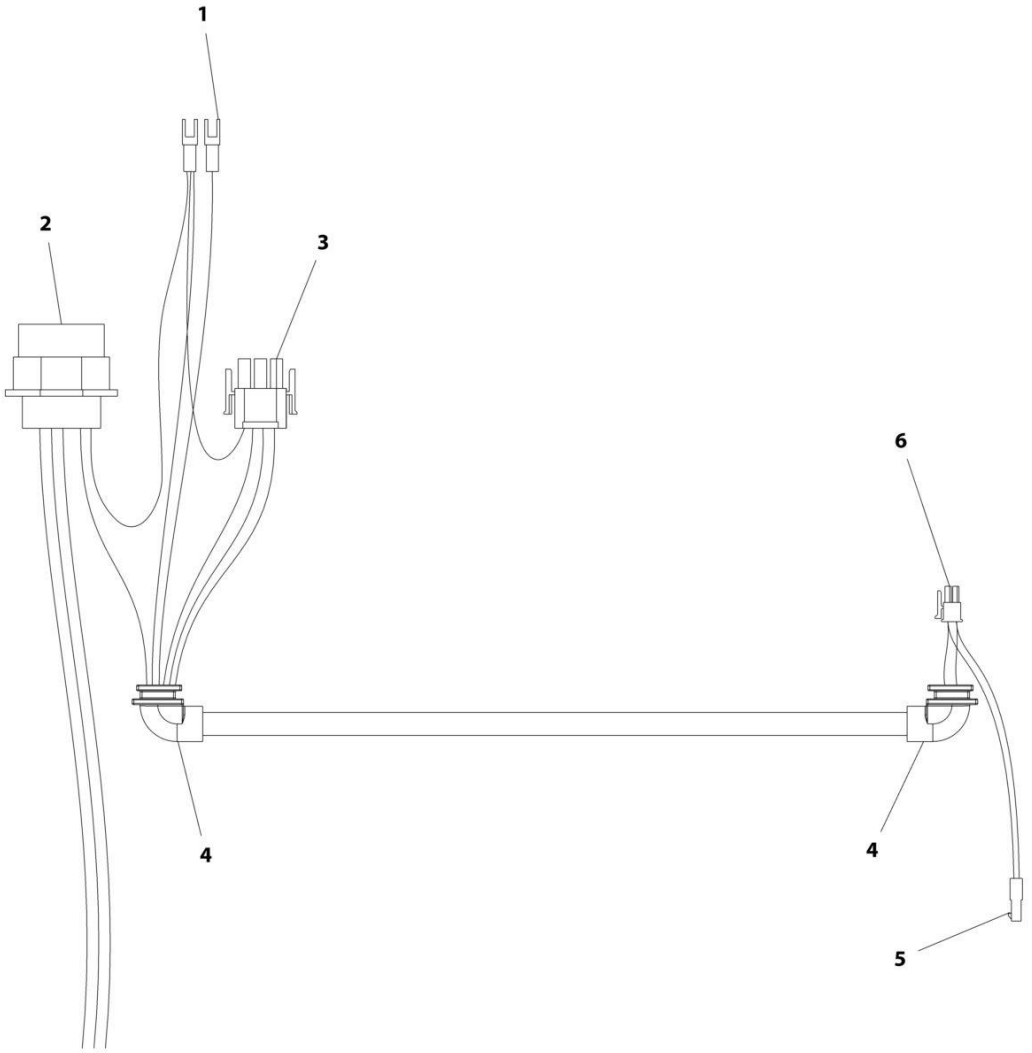


FIGURE 7-38. PLATFORM BOX HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922870	Ref	PLATFORM BOX HARNESS	D
1	4461016	1	Connector - 14 Position	
2	4460464	6	Pin, Male	
2	4460466	8	Plug, Sealing	
2	4460496	1	Lockwasher	
2	4460497	1	Nut, Panel	
3	4460265	1	Plug, Male - 9 Position	
3	4460267	8	Pin, Male	
4	2540042	2	Grommet 90	
5	See Note	NSS	Receptacle, Female - 3 Position (Note: Not Available for Purchase)	
6	4461057	1	Plug, Male - 16 Position	

FIGURE 7-39. PLATFORM CABLE ASSEMBLY (SN 0200239382 through 0200262555, SN 1200025024 to Present, SN B200020297 to Present, SN M200000100 through M200010214)

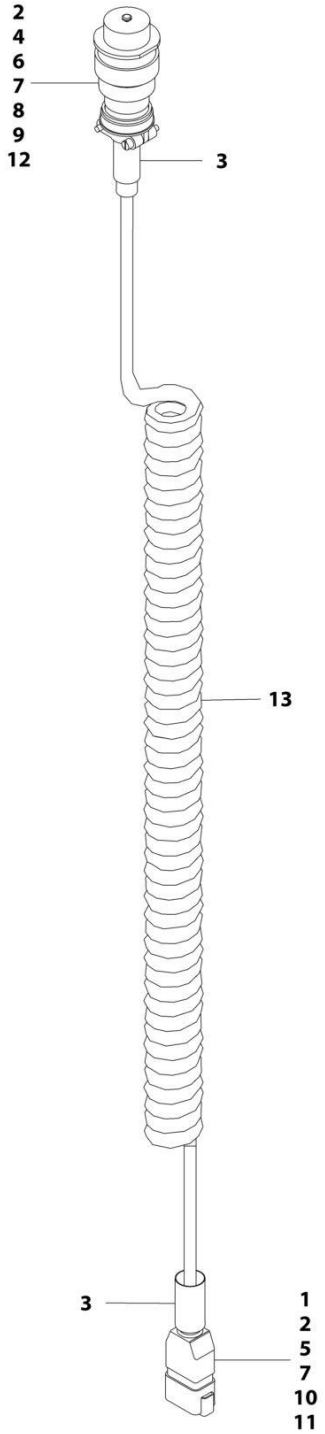


FIGURE 7-39. PLATFORM CABLE ASSEMBLY (SN 0200239382 through 0200262555, SN 1200025024 to Present, SN B200020297 to Present, SN M200000100 through M200010214)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096707	Ref	PLATFORM CABLE ASSEMBLY	F
1	0840058	1	Boot, 8 Position Receptacle	
2	2820026	AR	Insulation, Clear Tubing	
3	2820028	AR	Heat Shrink	
4	3730119	1	Resistor	
5	4460464	4	Pin, Male	
6	4460465	4	Socket, Female	
7	4460466	5	Plug, Sealing	
8	4460493	1	Cap, Dust	
9	4460754	1	Connector -14 Position	
10	4460931	1	Receptacle, Female - 8 Position	
11	4460943	3	Pin, Male (Gold)	
12	4460944	3	Socket, Female	
13	1001094169	1	Cable	

FIGURE 7-40. PLATFORM CABLE ASSEMBLY (SN 0200262556 to Present, SN M200010215 to Present)

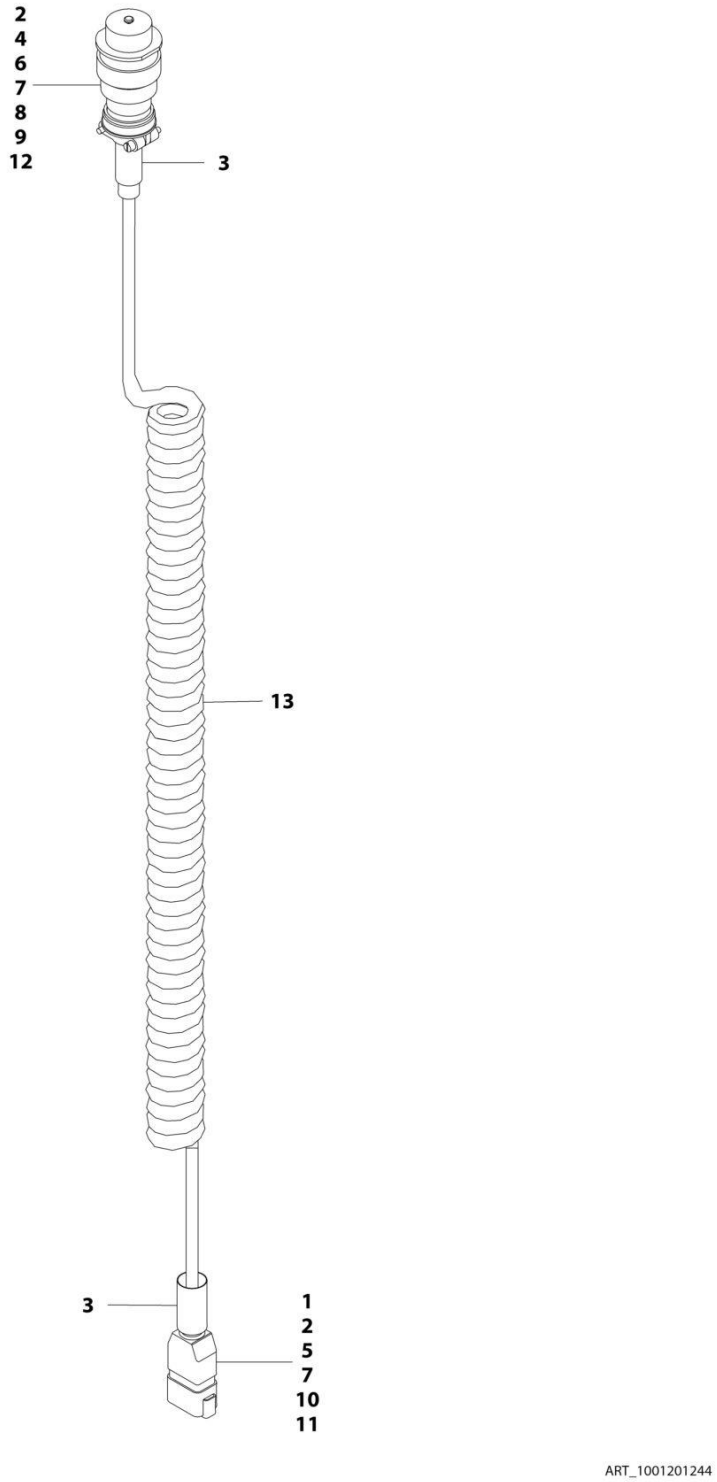


FIGURE 7-40. PLATFORM CABLE ASSEMBLY (SN 0200262556 to Present, SN M200010215 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001201244	Ref	PLATFORM CABLE ASSEMBLY	B
1	0840058	1	Boot, 8 Position Receptacle	
2	2820026	AR	Insulation, Clear Tubing	
3	2820028	AR	Heat Shrink	
4	3730119	1	Resistor	
5	4460464	4	Pin, Male	
6	4460465	4	Socket, Female	
7	4460466	5	Plug, Sealing	
8	4460493	1	Cap, Dust	
9	4460754	1	Connector -14 Position	
10	4460931	1	Receptacle, Female - 8 Position	
11	4460943	3	Pin, Male (Gold)	
12	4460944	3	Socket, Female	
13	1001201241	1	Cable	

FIGURE 7-41. PUMP POWER CABLE ASSEMBLY

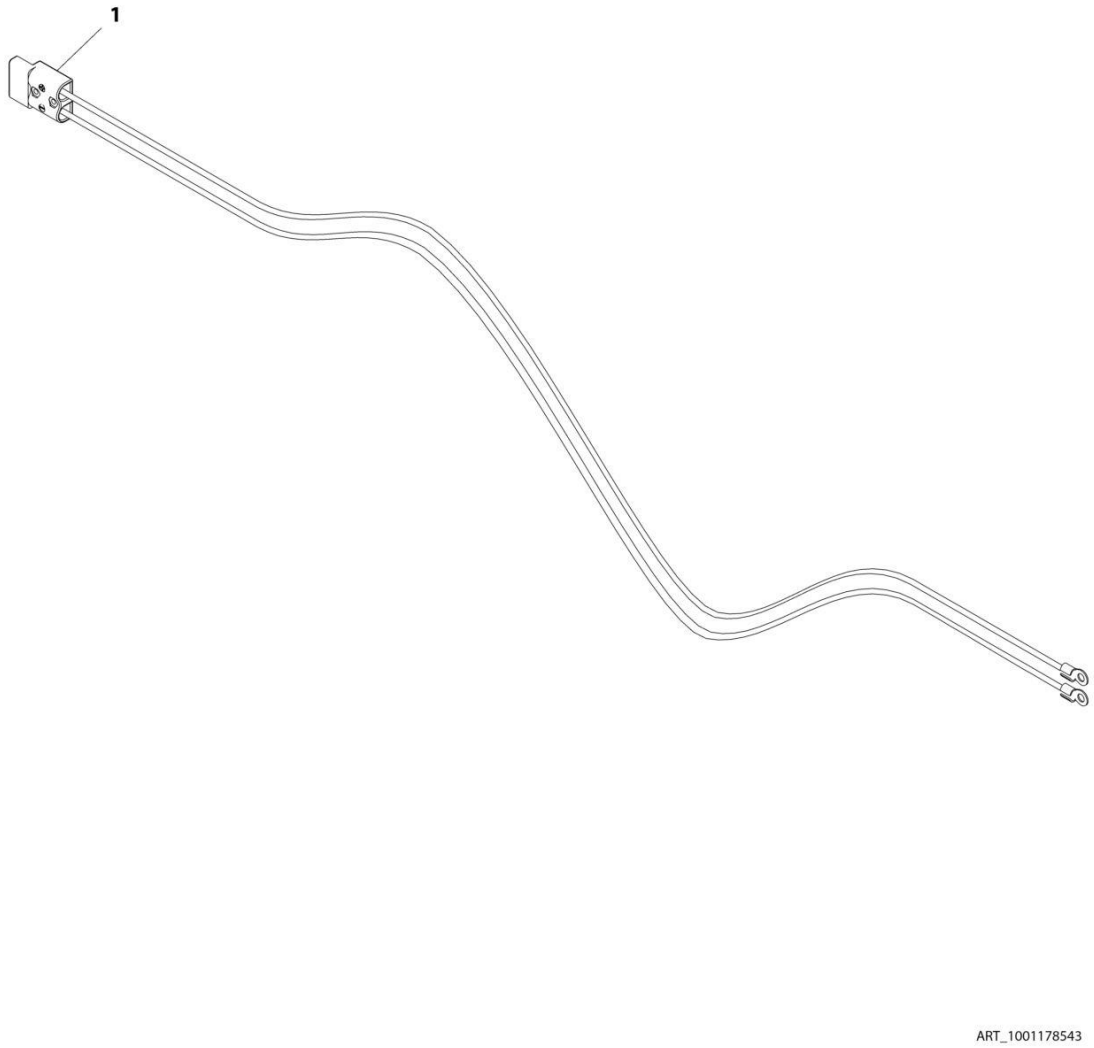


FIGURE 7-41. PUMP POWER CABLE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001178543	Ref	PUMP POWER CABLE ASSEMBLY	B
1	4460778	1	Connector, Anderson	

FIGURE 7-42. RECEPTACLE BOX KIT - 110V GFI

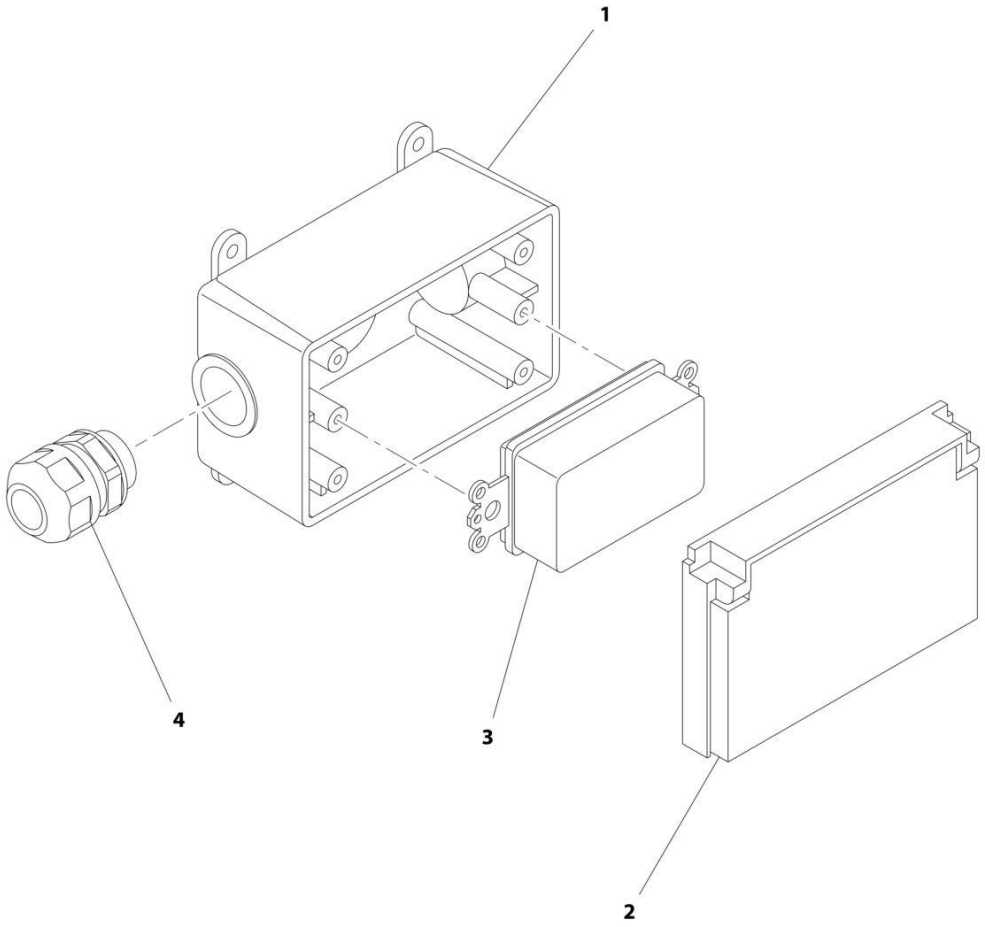


FIGURE 7-42. RECEPTACLE BOX KIT - 110V GFI

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902431	Ref	RECEPTACLE BOX KIT - 110V GFI	C
1	0861731	1	Box, Receptacle	
2	1671207	1	Cover, Receptacle	
3	4460346	1	Receptacle	
4	4460662	1	Connector, Strain Relief	

FIGURE 7-43. RECEPTACLE BOX KIT - 110V IEC YELLOW (CE SPEC)

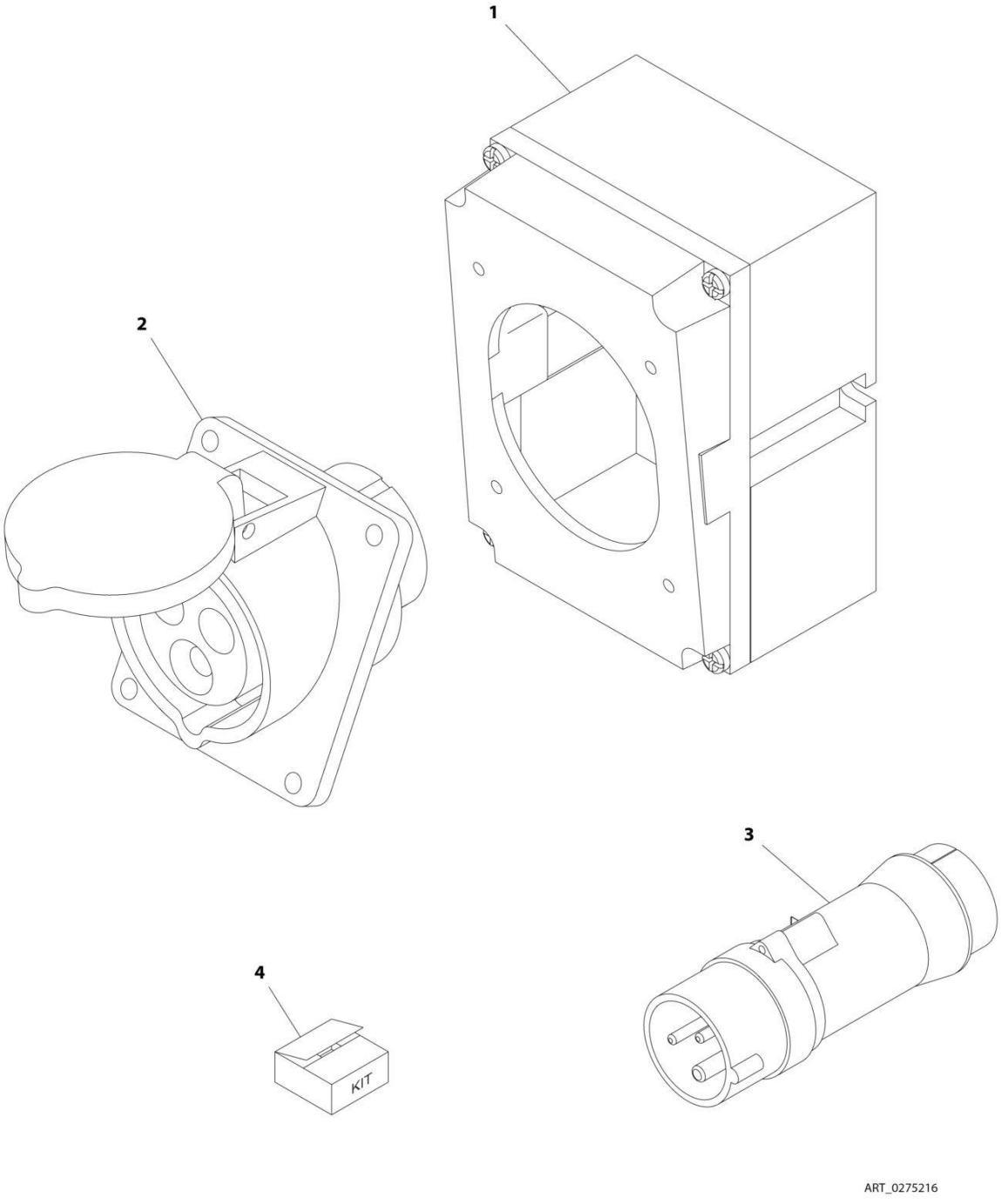


FIGURE 7-43. RECEPTACLE BOX KIT - 110V IEC YELLOW (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275216	Ref	RECEPTACLE BOX KIT - 110V IEC YELLOW (CE SPEC)	1
1	0861781	1	Box, Switch	
2	4461198	1	Receptacle	
3	4461196	1	Plug, Male	
4	1001100341	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461197)	

FIGURE 7-44. RECEPTACLE BOX KIT - 220V IEC BLUE (CE SPEC)

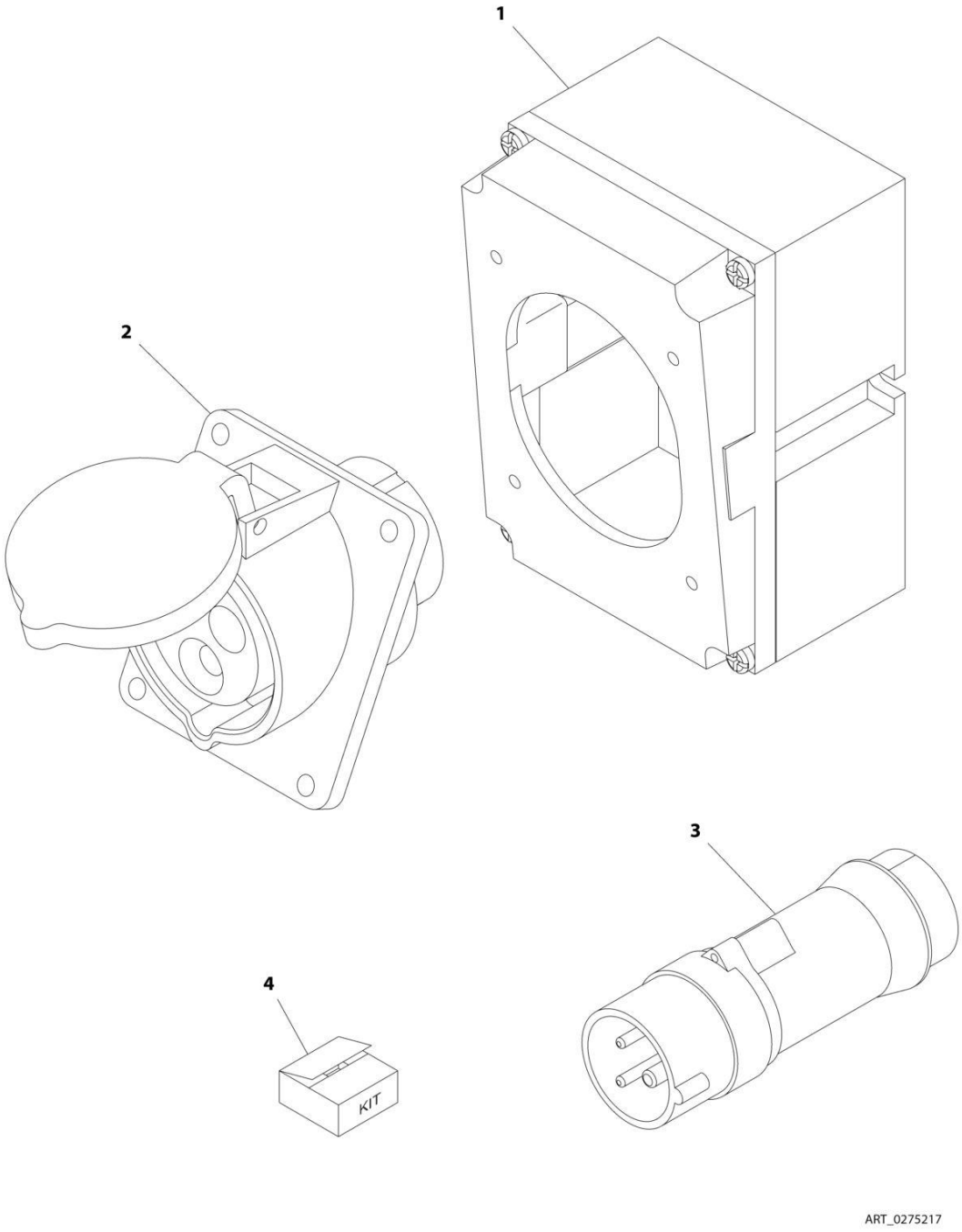


FIGURE 7-44. RECEPTACLE BOX KIT - 220V IEC BLUE (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275217	Ref	RECEPTACLE BOX KIT - 220V IEC BLUE (CE SPEC)	1
1	0861781	1	Box, Switch	
2	4461201	1	Receptacle	
3	4461199	1	Plug, Male	
4	1001100342	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461200)	

FIGURE 7-45. RECEPTACLE BOX KIT - 220V AFSINT 107 (CE SPEC)

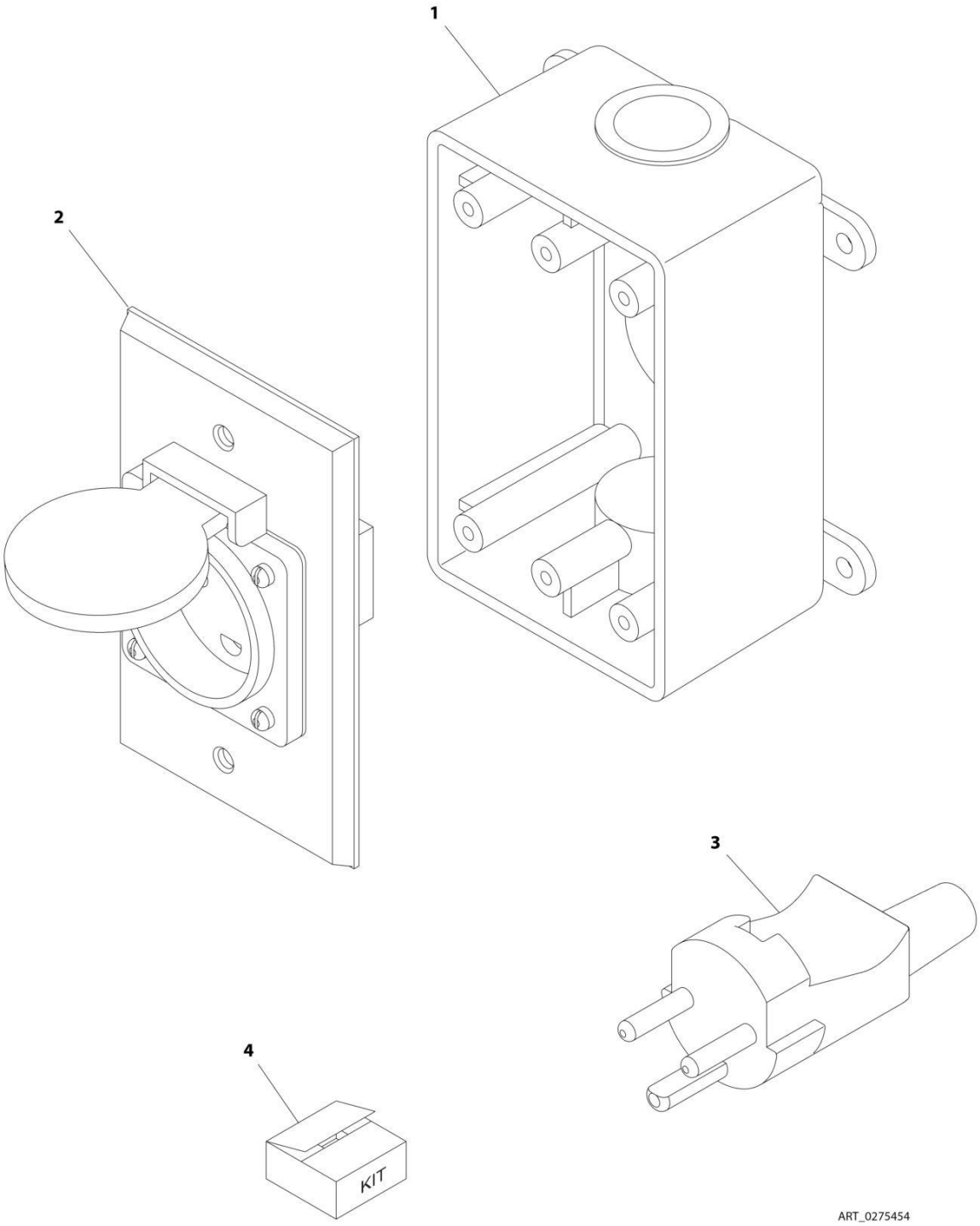


FIGURE 7-45. RECEPTACLE BOX KIT - 220V AFSINT 107 (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275454	Ref	RECEPTACLE BOX KIT - 220V AFSINT 107 (CE SPEC)	1
1	0861731	1	Box, Switch	
2	4461246	1	Receptacle	
3	4461249	1	Plug, Male	
4	1001100346	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461250)	

FIGURE 7-46. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND (CE SPEC) AND DUAL OUTLET (CE SPEC - 2646ES)

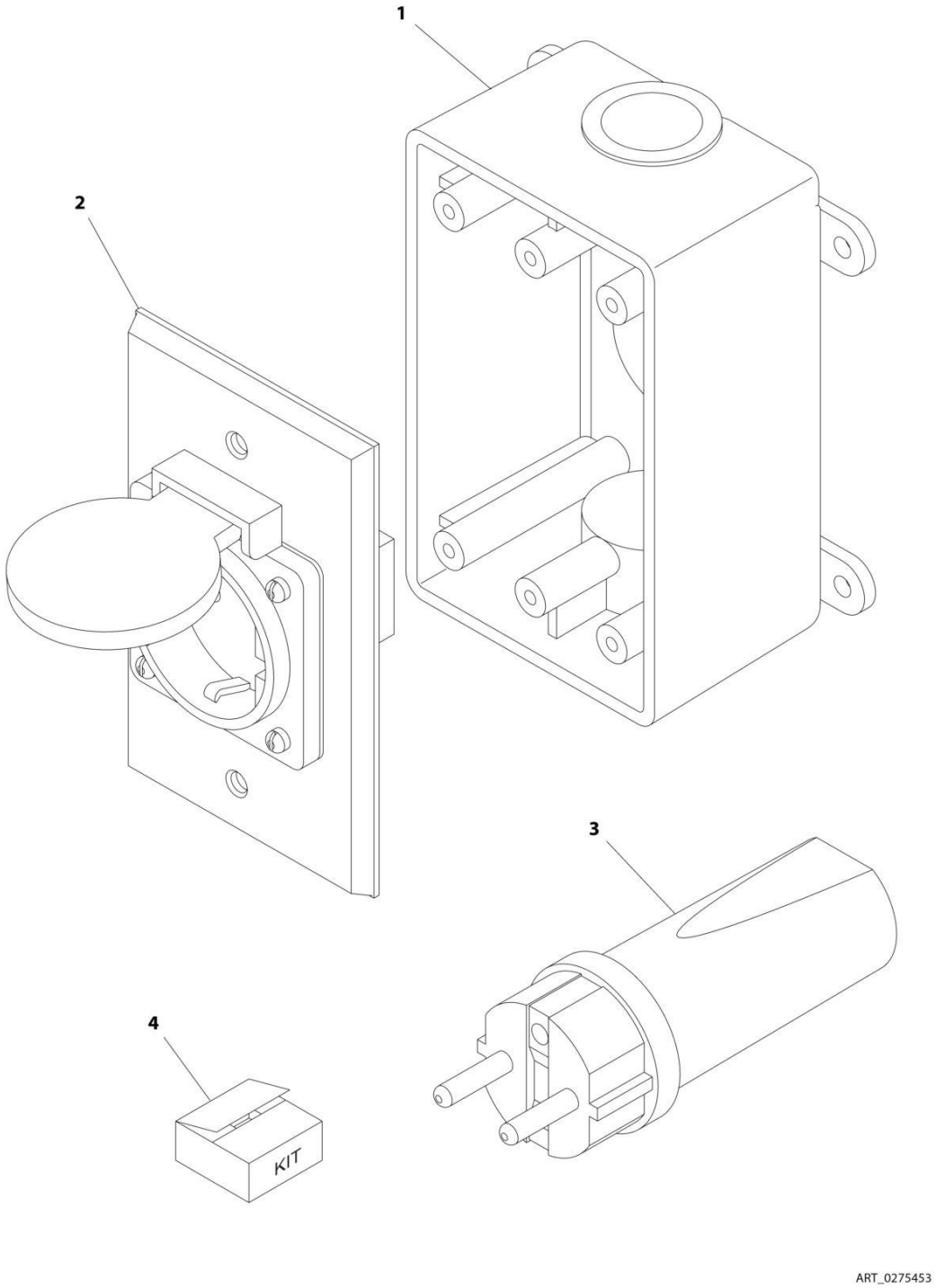


FIGURE 7-46. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND (CE SPEC) AND DUAL OUTLET (CE SPEC - 2646ES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275453	Ref	RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND (CE SPEC) AND DUAL OUTLET (CE SPEC - 2646ES)	1
1	0861731	1	Box, Switch	
2	4461245	1	Receptacle	
3	4461205	1	Plug, Male	
4	1001100347	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461206)	

FIGURE 7-47. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND (CE SPEC)

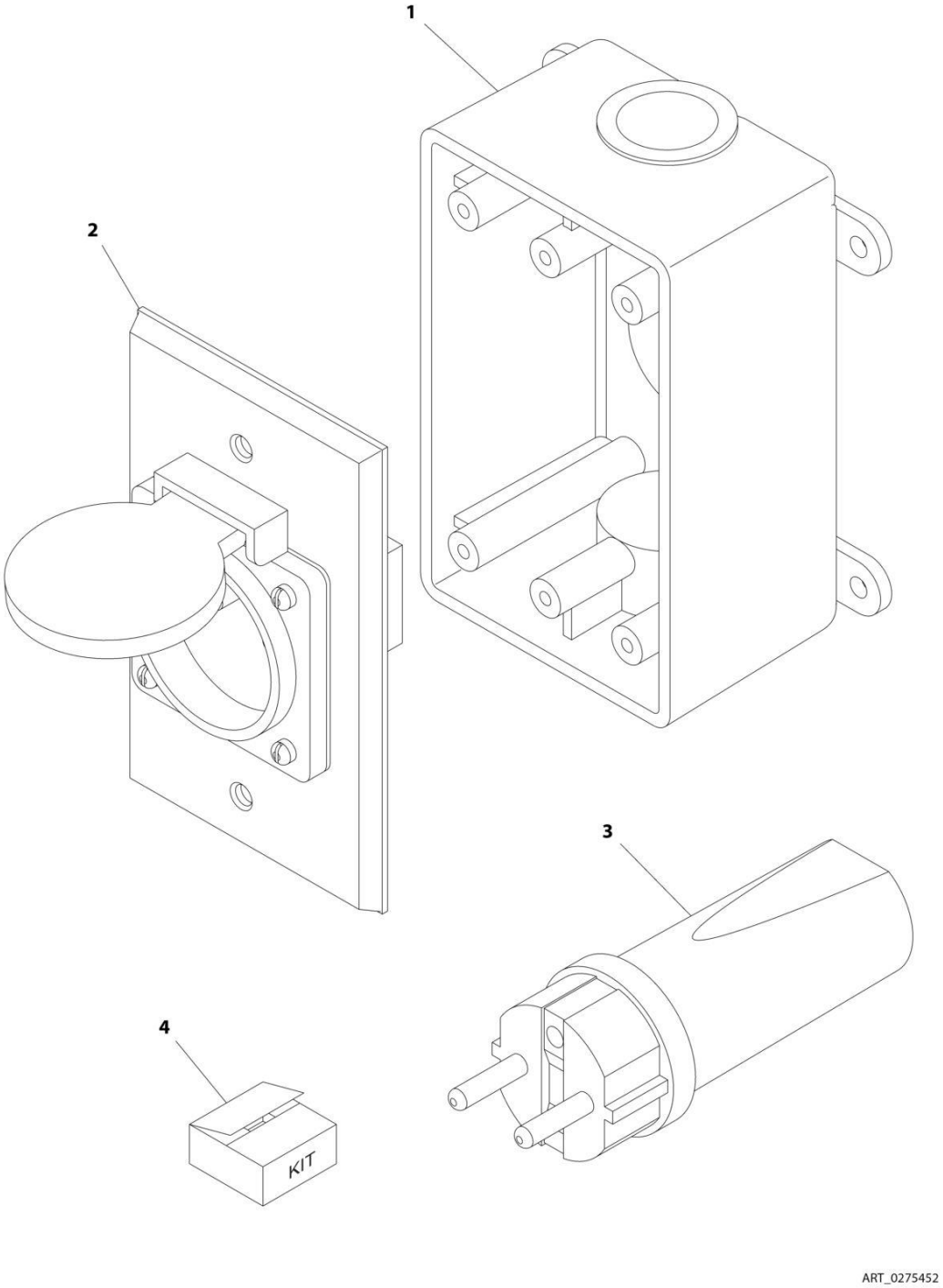


FIGURE 7-47. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND (CE SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275452	Ref	RECEPTACLE BOX KIT - 220V CEE7 POST GROUND (CE SPEC)	1
1	0861731	1	Box, Switch	
2	4461244	1	Receptacle	
3	4461202	NLA	Plug, Male (Use p/n 4461205) **(SN 0200239382 through 0200256617, SN B200020297 through B200037371, SN M200000100 through M200002249)**	
3	4461205	1	Plug, Male **(SN 0200256618 to Present, SN B200037372 to Present, SN M200002250 through M200039292)**	
4	1001100345	1	Plug and Socket Kit (Includes Items 1-3 and Female Plug p/n 4461206)	

FIGURE 7-48. WORKSTATION POWER HARNESS

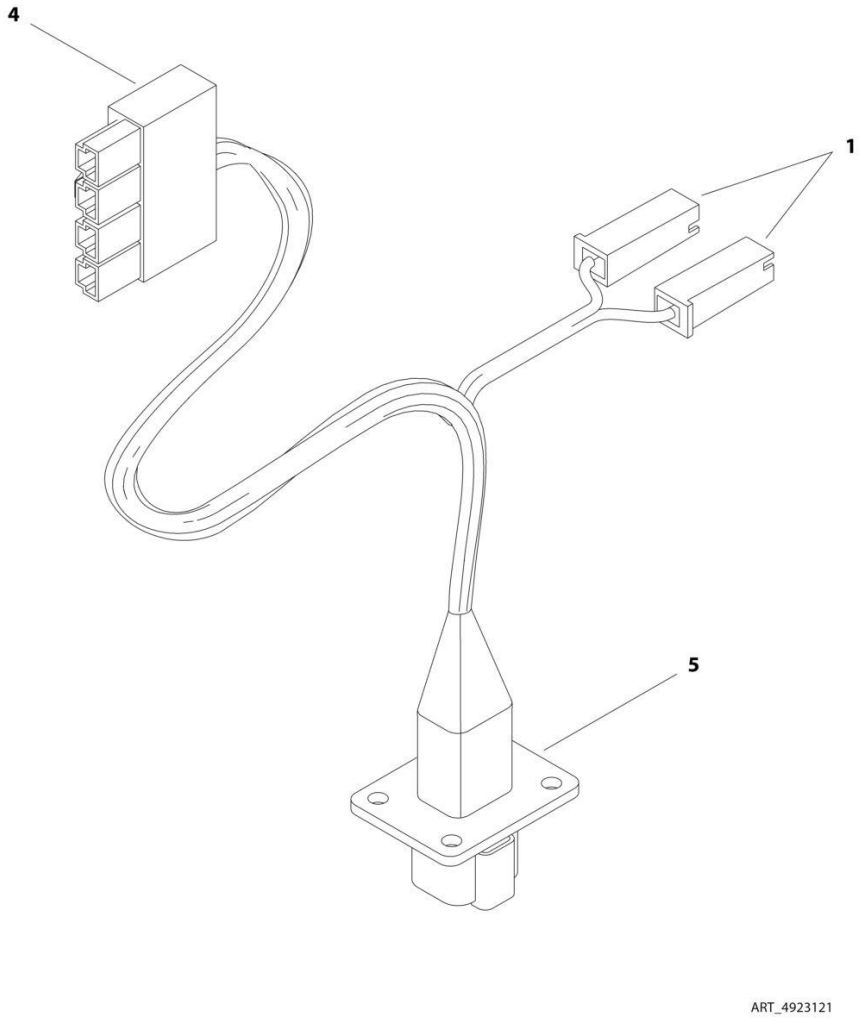


FIGURE 7-48. WORKSTATION POWER HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4923121	Ref	WORKSTATION POWER HARNESS	B
1	4460260	2	Housing, Terminal	
1	4460297	2	Terminal	
4	4460878	1	Connector - 4 Position	
4	4460887	4	Terminal	
5	4460885	1	Connector - 4 Position	
5	4460464	4	Pin, Male	

SECTION 8 - DECALS

SECTION 8 - DECALS

FIGURE 8-1. DECAL INSTALLATION - ANSI SPEC (ENGLISH)

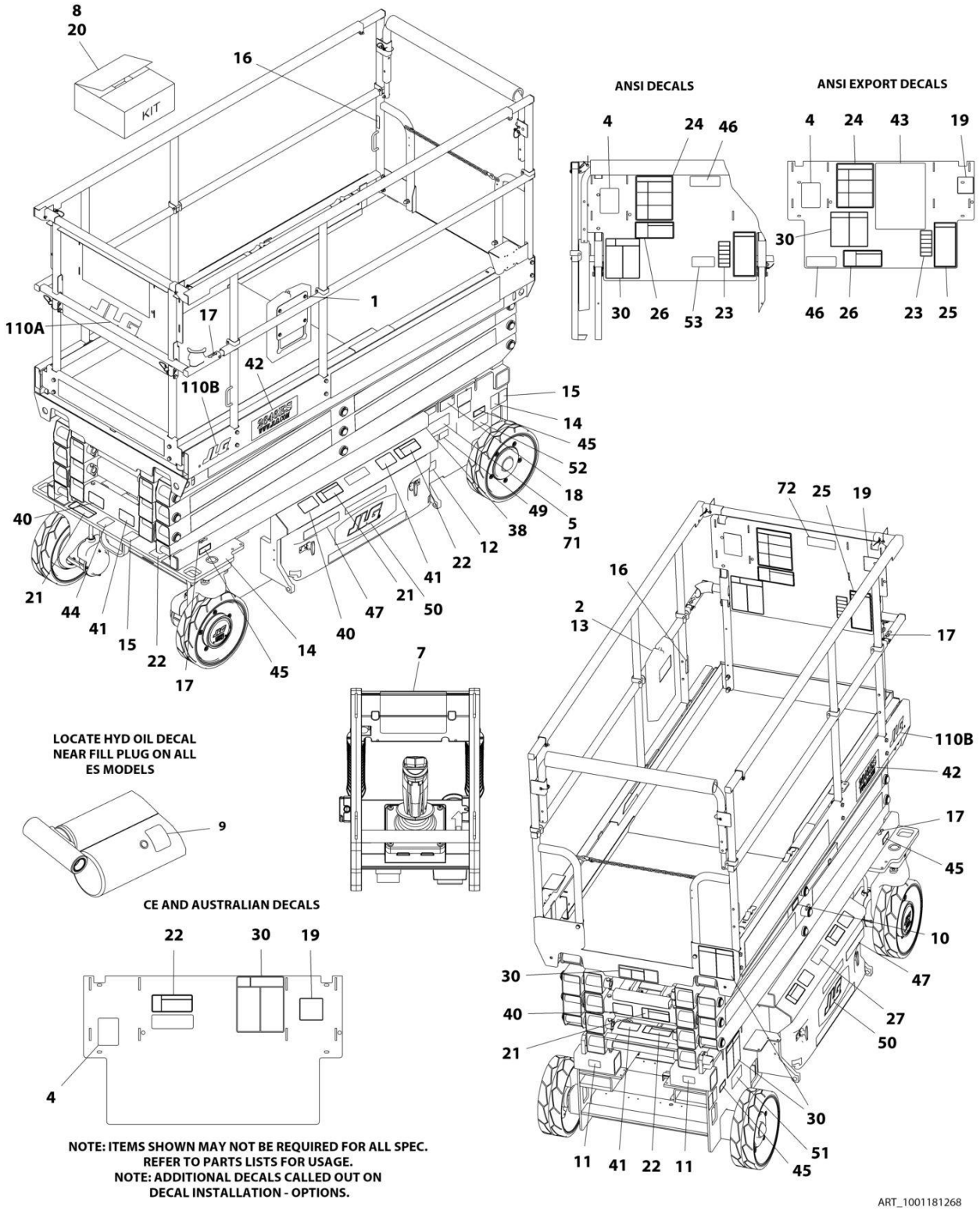


FIGURE 8-1. DECAL INSTALLATION - ANSI SPEC (ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181268	Ref	DECAL INSTALLATION - ANSI SPEC (ENGLISH)	G
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
4	1001131270	1	Decal - Patent	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902522	1	Decal Kit - ANSI Spec (Includes Items 21-27)	B
21	1705694	4	Decal - Crushing	
22	1705695	4	Decal - Danger Electrocution	
23	1705686	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocution	
27	1703813	2	Decal - Warning Battery Ventilation	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	
51	1001223055	1	Decal - Yearly Inspection **(SN B200045808 to Present, SN M200015195 through M200039292)**	
52	1001228370	1	Decal - CSA Ices **(SN B200045808 to Present, SN M200015195 through M200039292)**	
53	1001231801	1	Decal – Prop 65 **(SN B200051668 to Present, SN M200025412 through M200039292)**	

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FIGURE 8-2. DECAL INSTALLATION - AUSTRALIAN SPEC (ENGLISH)

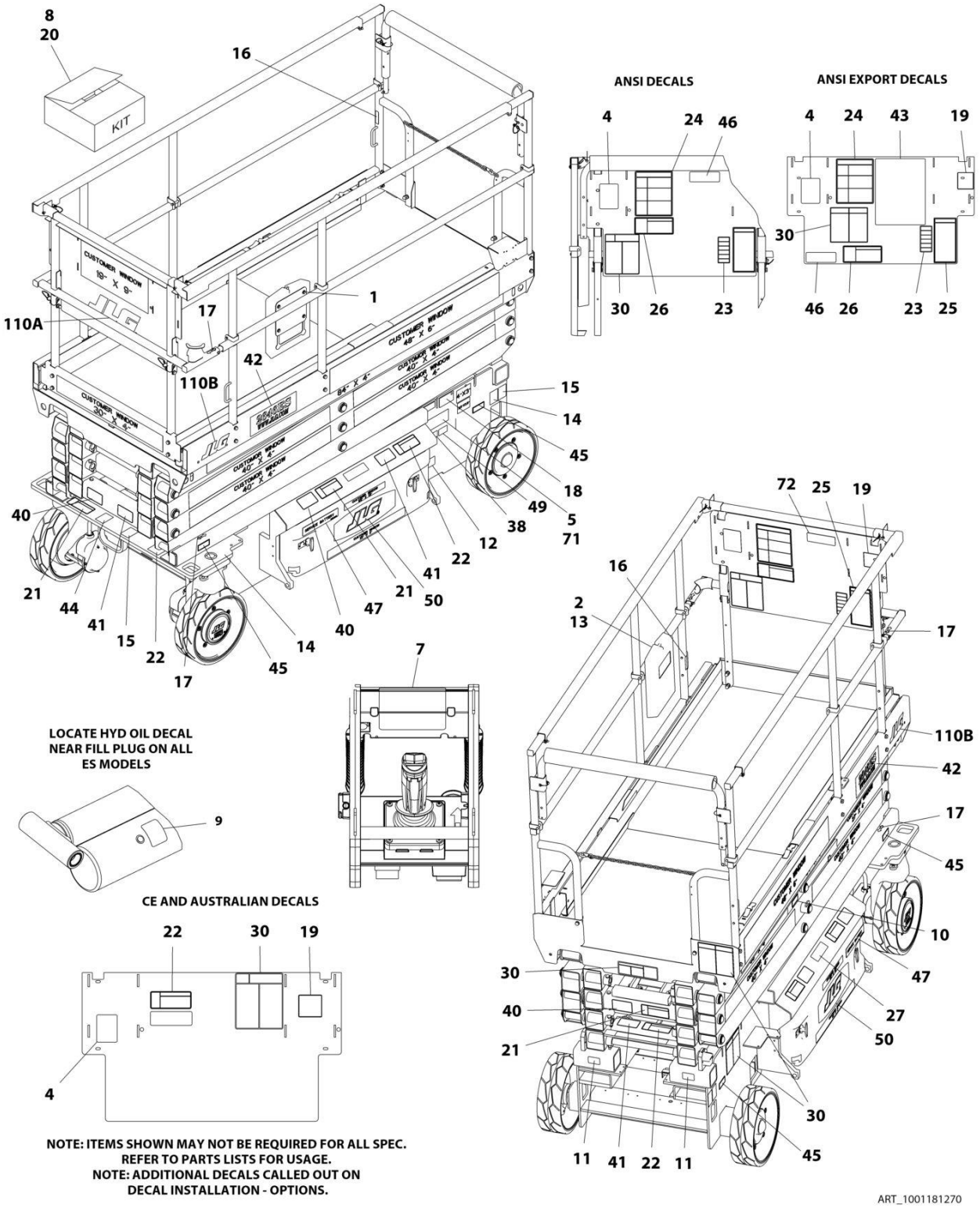


FIGURE 8-2. DECAL INSTALLATION - AUSTRALIAN SPEC (ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181270	Ref	DECAL INSTALLATION - AUSTRALIAN SPEC (ENGLISH)	H
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902523	1	Decal Kit - Australian Spec (Includes Items 21, 22 & 27)	2
21	1705673	4	Decal - Crushing	
22	1705671	5	Decal - Electrocution	
27	1705670	2	Decal - Warning Battery Ventilation/Fire Hazard	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	

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FIGURE 8-3. DECAL INSTALLATION - BRAZIL SPEC (PORTUGUESE/SPANISH)

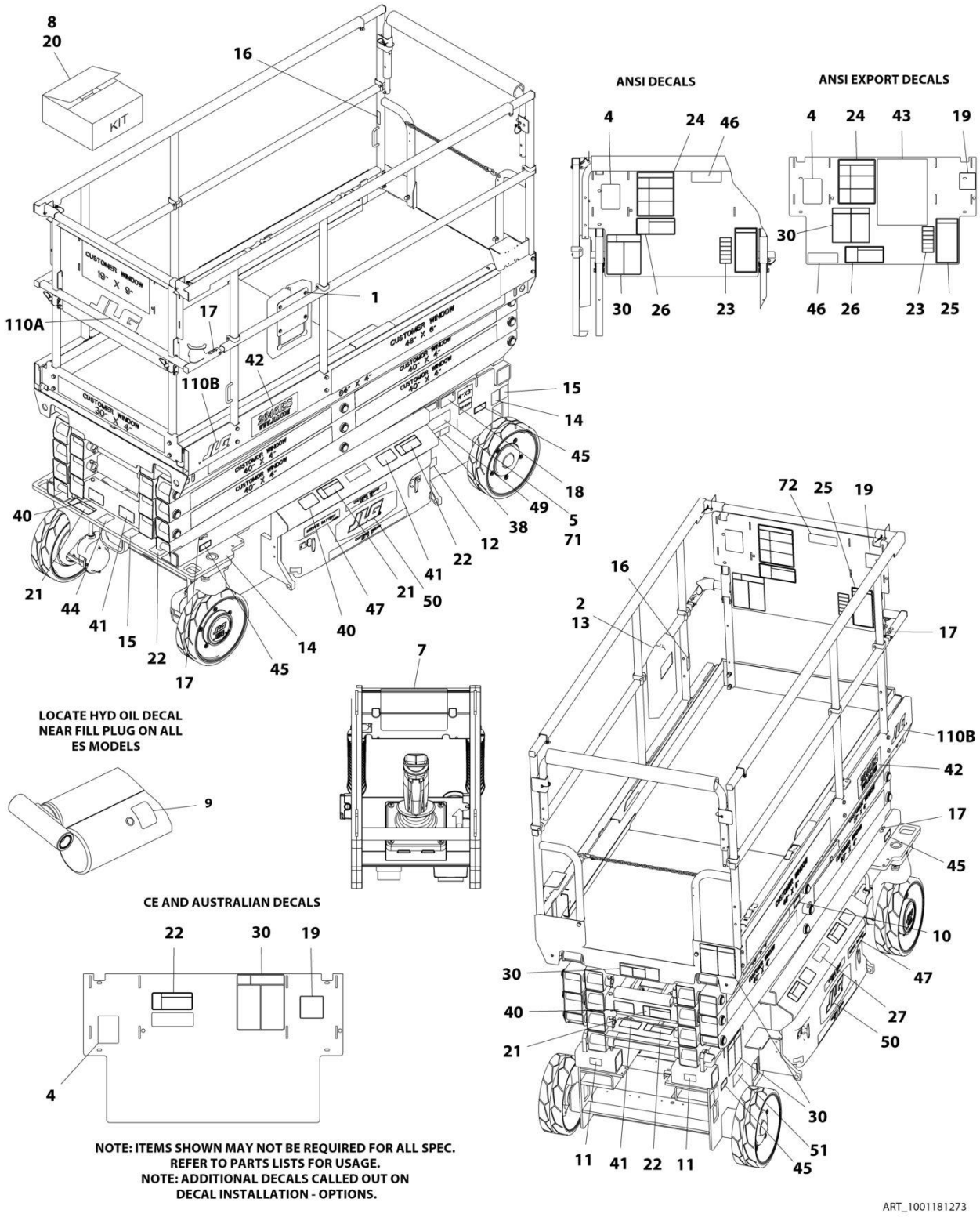


FIGURE 8-3. DECAL INSTALLATION - BRAZIL SPEC (PORTUGUESE/SPANISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181273	Ref	DECAL INSTALLATION - BRAZIL SPEC (PORTUGUESE/SPANISH)	H
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902526	1	Decal Kit - Brazil Spec (Includes Items 21-27, 40 & 41)	B
21	1705722	5	Decal - Warning Crushing Hazard	
22	1703834	4	Decal - Warning/Danger	
23	1705726	1	Decal - Legend	
24	1705894	1	Decal - Danger/Warning	
25	1705727	1	Decal - Inspection	
26	1705721	1	Decal - Electrocution	
27	1704341	2	Decal - Warning Battery Ventilation	
40	1705725	4	Decal - Crushing Hazard	
41	1705724	4	Decal - Electrocution	
43	1705719	1	Decal - Danger/Warning	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	
51	1001224052	1	Decal - Yearly Inspection **(SN B200045808 to Present, SN M200015195 through M200039292)**	

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FIGURE 8-4. DECAL INSTALLATION - CE SPEC (ENGLISH)

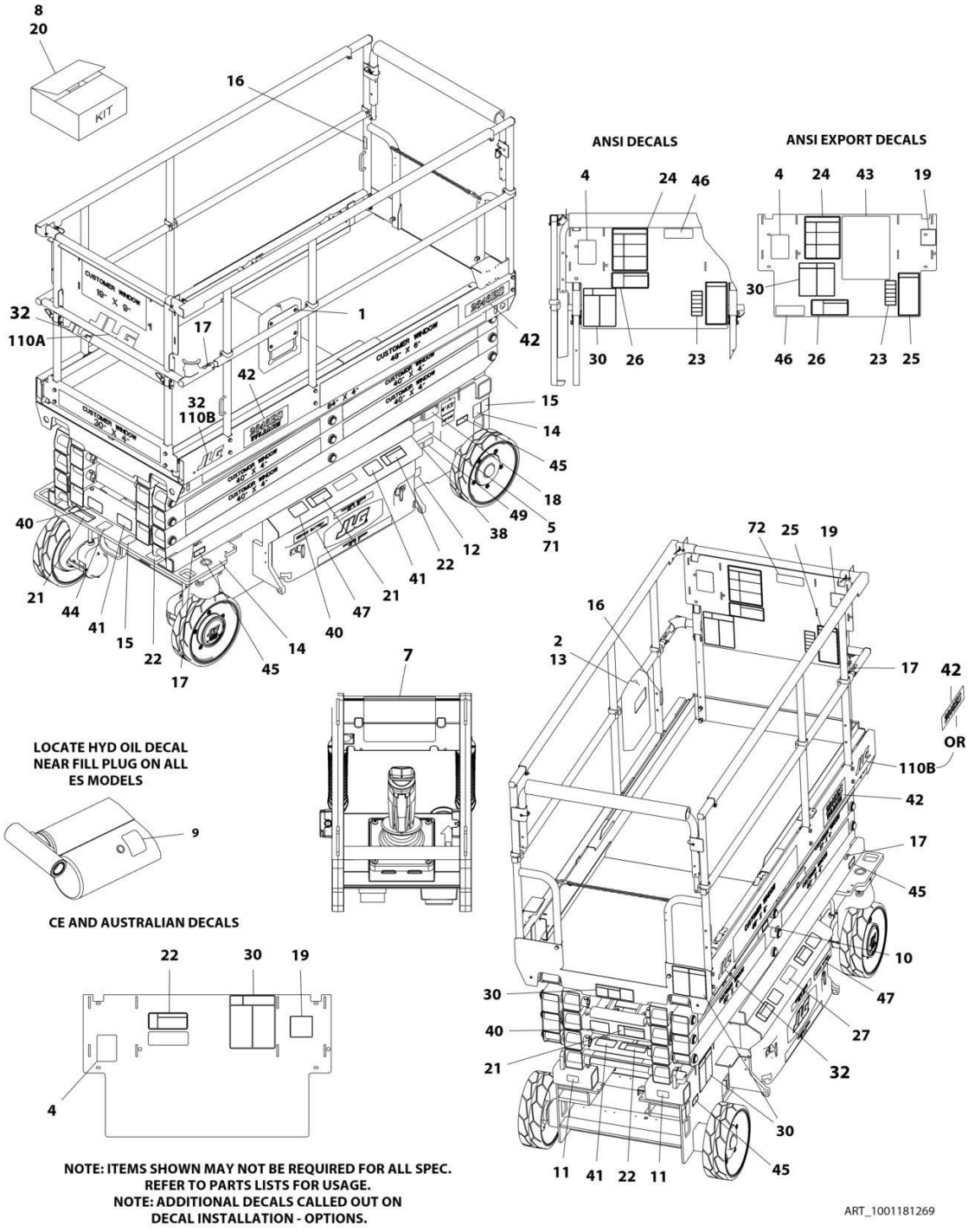


FIGURE 8-4. DECAL INSTALLATION - CE SPEC (ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181267	Ref	DECAL INSTALLATION – REFERENCE **(SN 0200239382 through 0200262222, SN B200020297 through B200038734, SN M200000100 through M200007980)**	H
	1001217327	Ref	DECAL INSTALLATION – REFERENCE **(SN 0200262223 to Present, SN 1200025021 to Present, SN B200037735 to Present, SN M200007981 through M200039292)**	B
	1001181269	Ref	DECAL INSTALLATION - CE SPEC (ENGLISH)	G
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902523	1	Decal Kit - CE Spec (Includes Items 21, 22 & 27)	2
21	1705673	4	Decal - Crushing	
22	1705671	5	Decal - Electrocution	
27	1705670	2	Decal - Warning Battery Ventilation/Fire Hazard	
32	1705781	3	Decal - JLG **(SN 0200262223 to Present, SN 1200025021 to Present, SN B200038735 to Present, SN M200007981 through M200039292)**	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146795	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN 1200025021 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	

FIGURE 8-5. DECAL INSTALLATION - CHINA SPEC (GB)

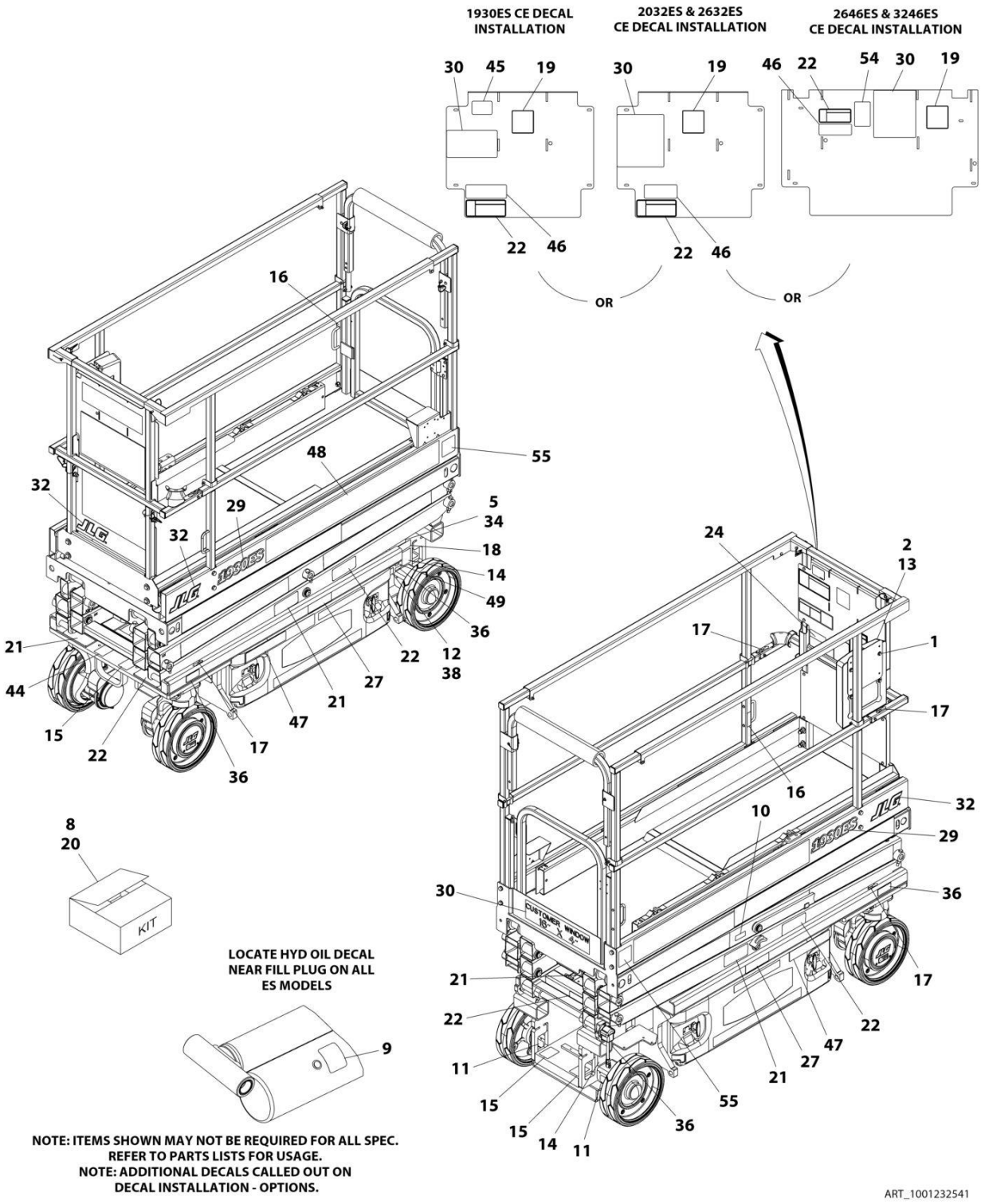


FIGURE 8-5. DECAL INSTALLATION - CHINA SPEC (GB)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001232541	Ref	DECAL INSTALLATION - CHINA SPEC (GB)	B
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902523	1	Decal Kit - CE Spec (Includes Items 21, 22 & 27)	2
21	1705673	4	Decal - Crushing	
22	1705671	5	Decal - Electrocution	
27	1705670	2	Decal - Warning Battery Ventilation/Fire Hazard	
32	1705781	3	Decal - JLG	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts	
54	1001244301	1	Decal - No Over the Rail to Ground **(SN B200051668 to Present, SN M200025412 through M200039292)**	
55	1001244298	1	Decal - Wechat **(SN B200051668 to Present, SN M200025412 through M200039292)**	

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FIGURE 8-6. DECAL INSTALLATION - CHINESE SPEC (CHINESE/ENGLISH)

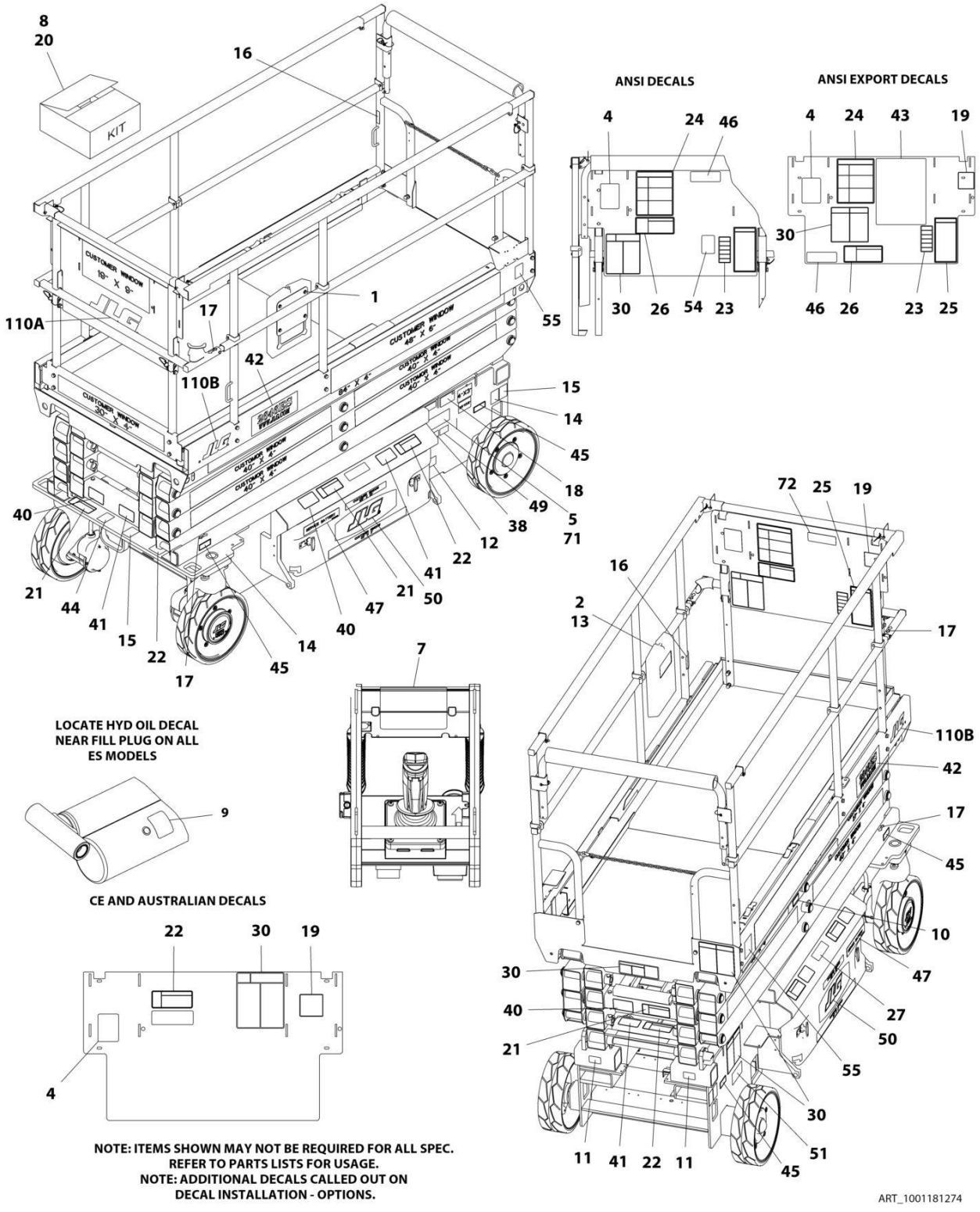


FIGURE 8-6. DECAL INSTALLATION - CHINESE SPEC (CHINESE/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181274	Ref	DECAL INSTALLATION - CHINESE SPEC (CHINESE/ENGLISH)	H
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902528	1	Decal Kit - Chinese Spec (Includes Items 21-27, 40 & 41)	B
21	1705694	4	Decal - Crushing	
22	1705695	4	Decal - Danger	
23	1705946	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocution	
27	1704344	2	Decal - Warning Battery Ventilation	
40	1705943	4	Decal - Crushing	
41	1705944	4	Decal - Electrocution	
43	1705945	1	Decal - Danger/Warning	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	
51	1001224050	1	Decal - Yearly Inspection **(SN B200045808 to Present, SN M200015195 through M200039292)**	
54	1001244301	1	Decal - No Over the Rail to Ground **(SN B200051668 to Present, SN M200025412 through M200039292)**	
55	1001244298	1	Decal - Wechat **(SN B200051668 to Present, SN M200025412 through M200039292)**	

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FIGURE 8-7. DECAL INSTALLATION - CSA SPEC (ENGLISH/FRENCH)

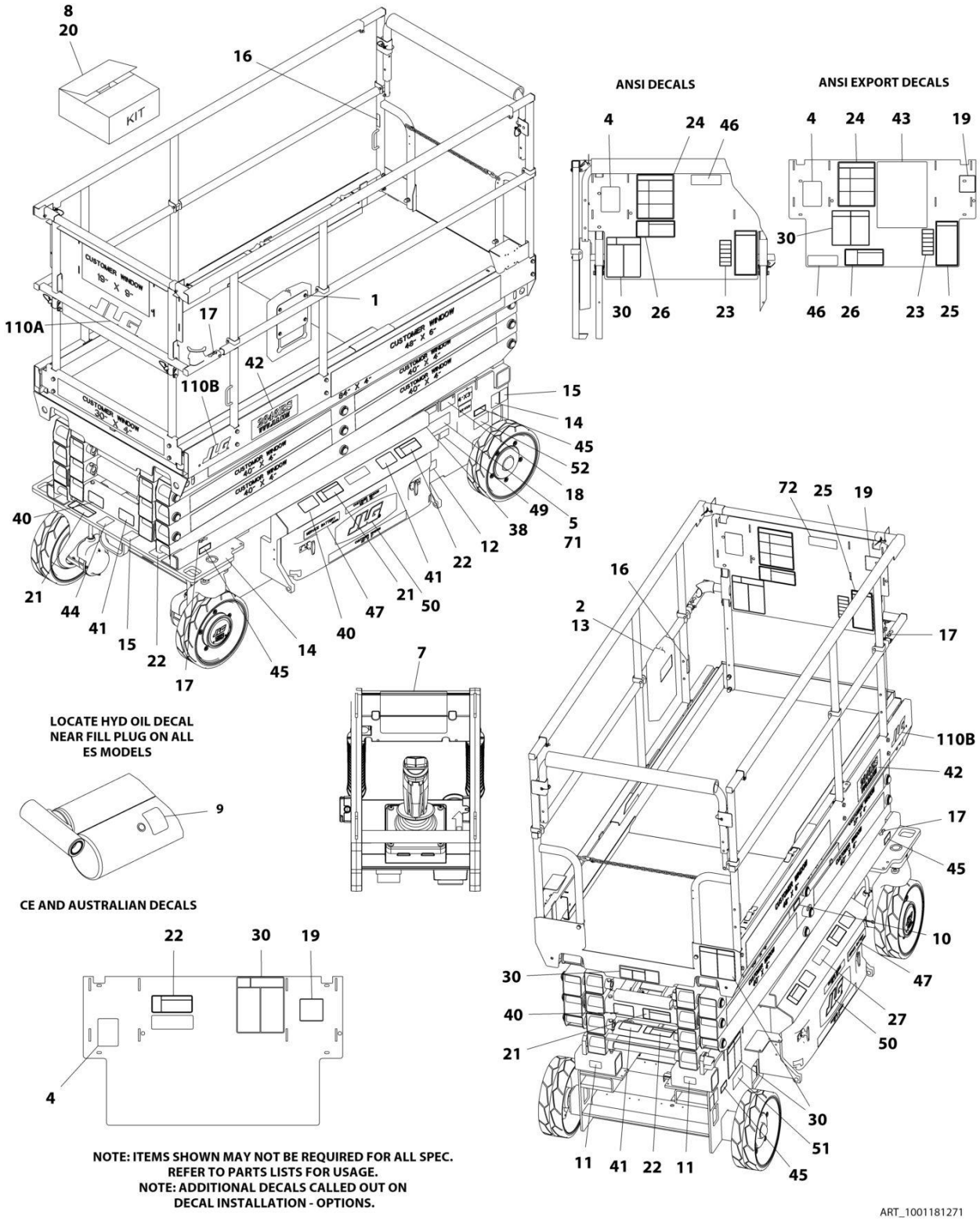


FIGURE 8-7. DECAL INSTALLATION - CSA SPEC (ENGLISH/FRENCH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181271	Ref	DECAL INSTALLATION - CSA SPEC (ENGLISH/FRENCH)	H
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
4	1001131270	1	Decal - Patent	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902524	1	Decal Kit - CSA Spec (Includes Items 21-27, 40 & 41)	B
21	1705694	4	Decal - Crushing	
22	1705695	4	Decal - Warning/Danger	
23	1705723	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocution	
27	1704340	2	Decal - Warning Battery Ventilation	
40	1705717	4	Decal - Crushing	
41	1705718	4	Decal - Electrocution	
43	3252098	1	Nameplate - Warning/Danger	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	
51	1001223971	1	Decal - Yearly Inspection **(SN B200045808 to Present, SN M200015195 through M200039292)**	
52	1001228370	1	Decal - CSA Ices **(SN B200045808 to Present, SN M200015195 through M200039292)**	

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FIGURE 8-8. DECAL INSTALLATION - KOREAN SPEC (KOREAN/ENGLISH)

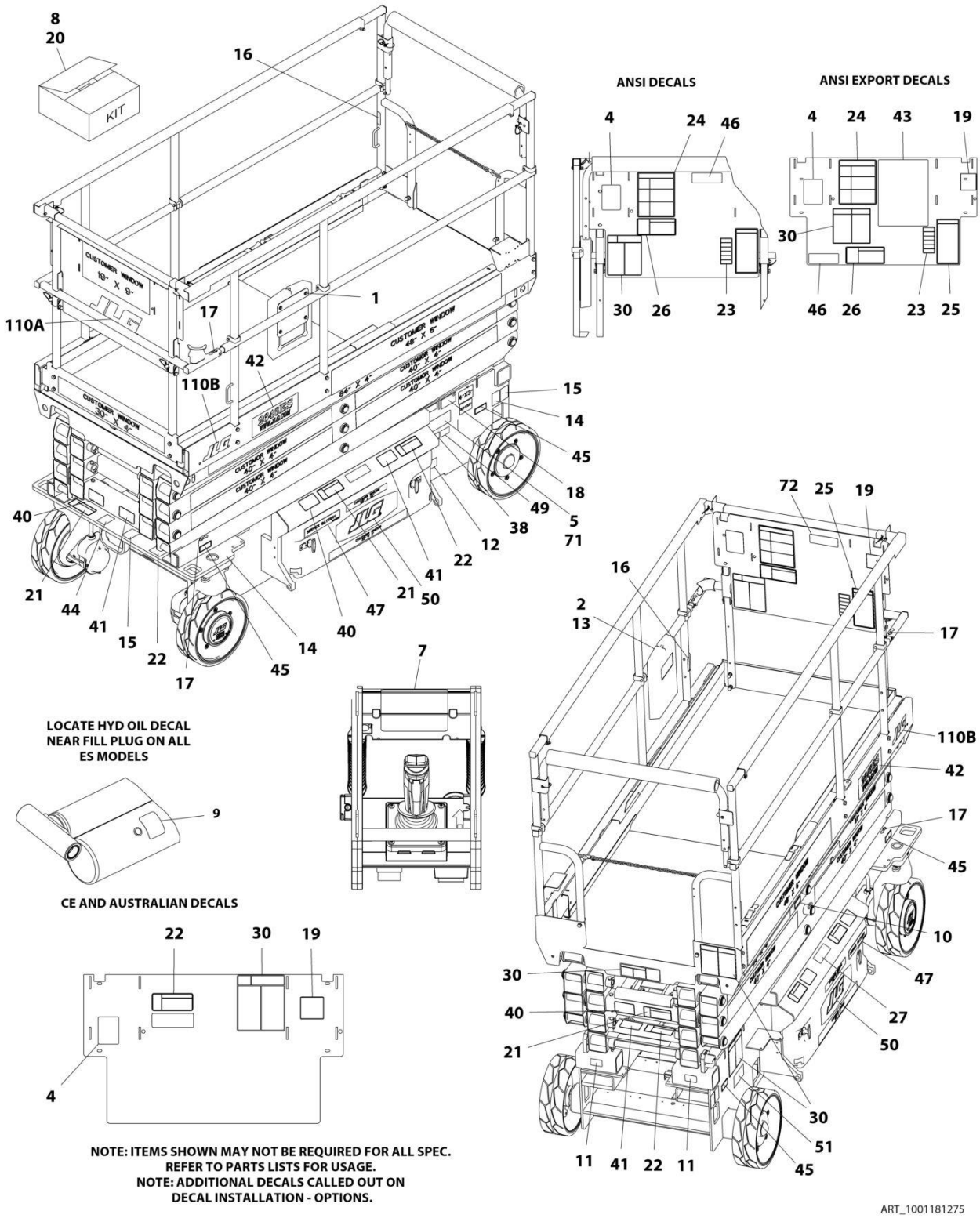


FIGURE 8-8. DECAL INSTALLATION - KOREAN SPEC (KOREAN/ENGLISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181275	Ref	DECAL INSTALLATION - KOREAN SPEC (KOREAN/ENGLISH)	H
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902532	1	Decal Kit - Korean Spec (Includes Items 21-27, 40 & 41)	2
21	1705694	4	Decal - Crushing	
22	1705695	4	Decal - Danger Electrocution	
23	1706057	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocution	
27	1707022	2	Decal - Warning Battery Ventilation	
40	1706052	4	Decal - Crushing Hazard	
41	1706056	4	Decal - Danger Electrocution	
43	1706053	1	Decal - Danger/Warning	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	
51	1001224048	1	Decal - Yearly Inspection **(SN B200045808 to Present, SN M200015195 through M200039292)**	

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FIGURE 8-9. DECAL INSTALLATION - LATIN AMERICAN SPEC (ENGLISH/SPANISH)

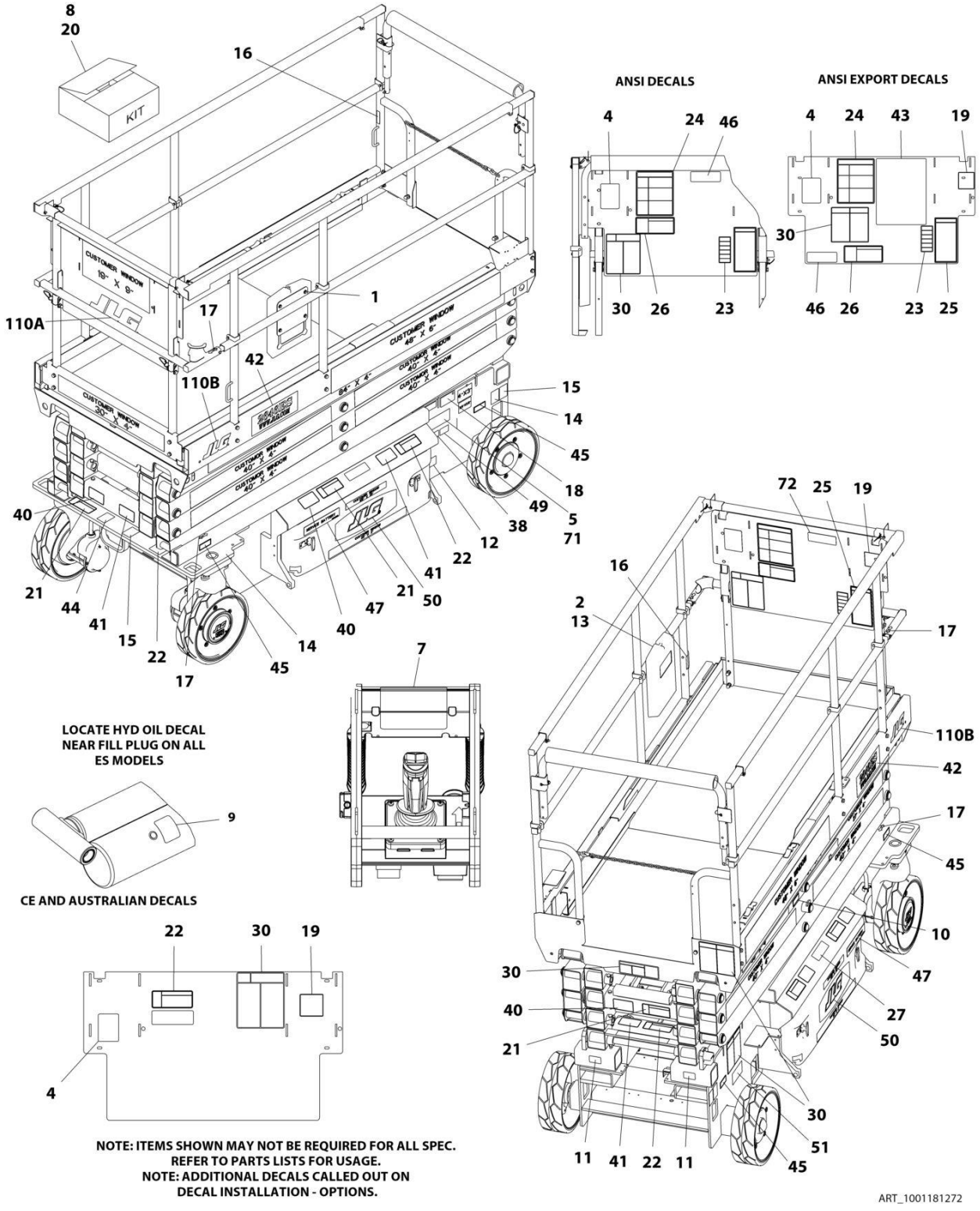


FIGURE 8-9. DECAL INSTALLATION - LATIN AMERICAN SPEC (ENGLISH/SPANISH)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001181272	Ref	DECAL INSTALLATION - LATIN AMERICAN SPEC (ENGLISH/SPANISH)	H
		Ref	Note: See DECAL INSTALLATION - OPTIONS for additional decals.	
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
5	2080057	4	Fastener	
7	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
8	2902267	1	Decal Kit - Master (Standard Decals) (Includes Items 9-19 & 44)	B
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Lanyard Attach	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent Instructions	
19	1705692	1	Decal - Control Box Location	
20	2902525	1	Decal Kit - Latin American Spec (English/Spanish) (Includes Items 21-27, 40 & 41)	B
21	1705694	4	Decal - Crushing	
22	1705695	4	Decal - Danger Electrocution	
23	1705720	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocution	
27	1704339	2	Decal - Warning Battery Ventilation	
40	1705725	4	Decal - Crushing Hazard	
41	1705724	1	Decal - Danger Electrocution	
43	1705719	1	Decal - Danger/Warning	
44	1701499	1	Decal - No Lift (Part of Item 8)	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - See Manual	
49	1001216313	1	Decal - 24 Volts **(SN 0200257823 to Present, SN B200037385 to Present, SN M200002935 through M200039292)**	
50	1705754	2	Decal - JLG **(SN 0200262285 to Present, SN B200038299 to Present, SN M200007989 through M200039292)**	
51	1001224049	1	Decal - Yearly Inspection **(SN B200045808 to Present, SN M200015195 through M200039292)**	

SECTION 8 - DECALS

FIGURE 8-10. DECAL INSTALLATION – OPTIONS

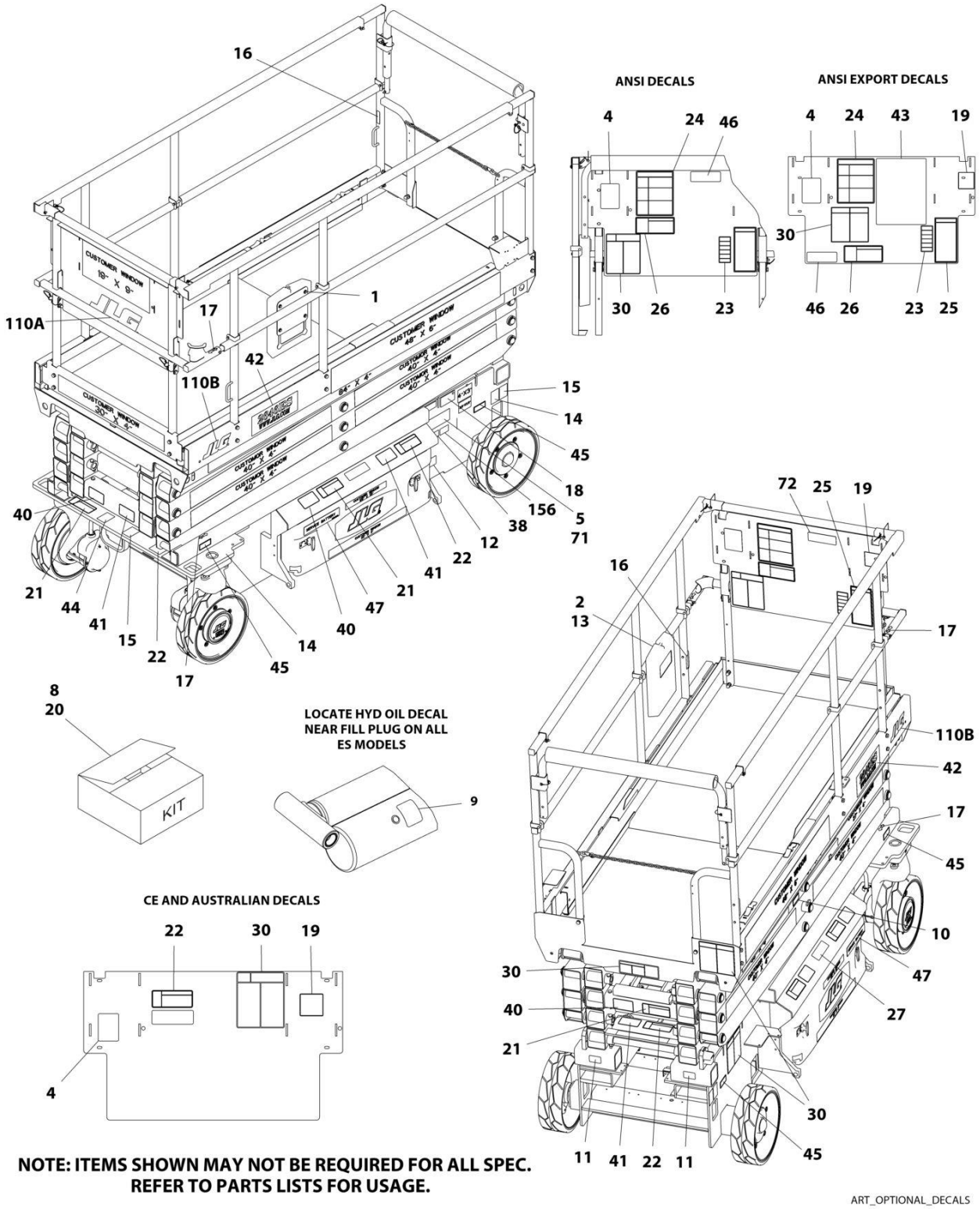


FIGURE 8-10. DECAL INSTALLATION – OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECAL INSTALLATION - OPTIONS	
25	0272862	Ref	Corner Safety Stripes Installation	C
25	4420051	51 in/1.3m	Tape, Safety (Not Shown - Located on Platform Extension)	
30	1705640	3	Decal - 1000LB Capacity (2646ES All Specs except Australian, CE and China Specs)	
30	1705668	1	Decal - 450KG (2646ES Australian/CE Specs)	
30	1705641	2	Decal - 1000LB/317KG Capacity (3246ES All Specs except Australian, CE and China Specs)	
30	1705704	1	Decal - 320KG Capacity (3246ES Australian/CE Specs)	
42	1001099922	2	Decal - 2646ES Model Designation	
42	1001099923	2	Decal - 3246ES Model Designation	
45	1706311	4	Decal - Maximum Tire Load (2646/3246ES All Specs except Australian, CE and China Specs)	
45	1706312	4	Decal - Maximum Tire Load (2646/3246ES Australian, CE and China Specs)	
71	See Note	1	Decal - Serial Number (Note: Not Available for Purchase)	
72	1705303	1	Decal - CSA (CSA Spec Only)	
74	3251813	1	Decal - USA (Not Shown) **(SN 0200239382 through 0200243057)**	
110	0272870	Ref	JLG Logo Installation (All Specs Except China Specs)	2
110	1001228965	Ref	JLG Logo Installation (China Specs)	A
110A	1702773	1	Decal - JLG (5 inch) (All Specs Except China Specs)	
110A	1705754	1	Decal – JLG (3.5 inch) (China Specs)	
110B	1705781	2	Decal - JLG (2.75 inch) (All Specs)	
156	1001214029	1	Decal Installation - EAC (Russian/CIS Specs)	A
156	1001173703	1	Decal - EAC (Russian/CIS Specs)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.	
		Ref	STANDARD PARTS	
	4360069	1	Breaker, Circuit - 10Amp	
	4360328	1	Switch, Toggle	
	2860030	1	Key, Replacement	
	4360475	1	Switch, Mushroom	
	4360387	1	Switch, Push Button	
	1001092354	1	Switch, Rotary Angle Sensor	
	1600402	1	Controller, Drive/Steer	
	4360538	1	Switch and Membrane	
	4360539	1	Switch, Toggle	
	1001097347	1	Relay	
	70004928	1	Filter - 300 Micron	
	70003706	1	Filter - 300 Micron	
	70003707	1	Coil	
		Ref	VARIABLE PARTS	
	1001092456	1	Module, Drive Control	
	1001109088	1	Switch, Limit (Non-UL Machines)	
	1001126905	1	Switch, Limit (UL Machines)	
	1001130614	1	Switch, Limit (Machines with Overhead Protection and Low Height Drive Cutout)	
	0610161	1	PC Board - Charger	
	4360469	1	Switch, Key (All Specs except CE Specs)	
	4360470	1	Switch, Key (CE Specs)	
	1001163095	1	Sensor, Tilt (USA Built Machines)	
	1001169392	1	Sensor, Tilt (China Built Machines)	
	2940064	1	Latch, Snap (Machines with Chain Gate)	
	1600439	1	PC Board, Console Box	
	4360613	1	Switch, Limit (Brake Disconnect)	
	1001109475	1	Breaker, Circuit - 16Amp (CE Spec Only)	
	1001109482	1	Breaker, Circuit - 30mA (CE Spec Only)	
	1001152479	1	Breaker, Circuit - Double 16Amp (CE Spec Only)	

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

FIGURE 10-1. SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact the JLG Parts Department.	
		Ref	SPECIAL OPTIONS	
	0272843	Ref	AC Plug and Receptacle Installation (Customer Supplied Plug and Receptacle)	
	0274446	Ref	Airline Installation (2646/3246ES)	
	0272913	Ref	Alarm Installation - Motion (See GROUND CONTROL BOX /ALARM INSTALLATION for Components)	
	1001183458	Ref	Ambient Adjusting Motion Alarm Kit	
	0272878	Ref	Antivandalism Package (ANSI Export, CE, Australian, UL, China and Korea Specs Only)	
	1001213525	Ref	Antivandalism Package (ANSI Export, China and Korea Specs)	
	1001191850	Ref	Arm Guards Installation (China Built Machines)	
	1001190010	Ref	Beacon Light Installation with 2 Lights	
		Ref	ClearSky (Telematics) Installations (Dealer Installed)	
	1001243574	Ref	ClearSky Telematics Access Control Kit (Dealer Installed) (All Specs)	
	1001243185	Ref	ClearSky Telematics Access Control Kit – Single Can (Dealer Installed) (ANSI Specs)	
	1001243186	Ref	ClearSky Telematics Access Control Kit – Single Can (Dealer Installed) (CE Specs)	
		Ref	ClearSky (Telematics) Installations (Factory Installed)	
	1001229107	Ref	ClearSky Telematics (Factory Installed) (ANSI and CSA Specs)	
	1001233237	Ref	ClearSky Telematics (Factory Installed) (ANSI Export, CE and Korea Specs)	
	1001229696	Ref	Decals - ClearSky (ANSI, ANSI Export, CE, CSA and Korea Specs)	
	1706765	Ref	Decal - Hazardous Voltage (English Language) (Used with Inverter Installation) (ANSI and CSA Specs)	
	1001136847	Ref	Decal - Hazardous Voltage (English/Spanish Language) (Used with Inverter Installation) (ANSI Export, Chinese and Korea Specs)	
	1001230981	Ref	Decal - Quick Start Reference (Dutch Spec)	
	1001226419	Ref	Decal - Quick Start Reference (English Spec)	
	1001230979	Ref	Decal - Quick Start Reference (French Spec)	
	1001230975	Ref	Decal - Quick Start Reference (German Spec)	
	1001230980	Ref	Decal - Quick Start Reference (Italian Spec)	
	1001230983	Ref	Decal - Quick Start Reference (Russian Spec)	
	1001230982	Ref	Decal - Quick Start Reference (Spanish Spec)	
	1001230984	Ref	Decal - Quick Start Reference (Swedish Spec)	
	1706922	Ref	Decal - Service Support (24HR) (ANSI and CSA Specs)	
	1705304	Ref	Decal - Service Support (CSG Machines Only)	
	1001126013	Ref	Decals - UL (China Built Machines) (UL Specs)	
	1001200363	ref	Decals - UL (Mexico Built Machines) (UL Specs)	
	0274126	Ref	Decals - UL (USA Built Machines) (UL Specs)	
		Ref	Decal Kits	
	1001149798	Ref	Decal Kit - Complete (2646ES)	
	1001149799	Ref	Decal Kit - Complete (3246ES)	
	2902522	Ref	Decal Kit - Country Spec (ANSI)	
	2902523	Ref	Decal Kit - Country Spec (Australian/CE)	
	2902526	Ref	Decal Kit - Country Spec (Brazil)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902528	Ref	Decal Kit - Country Spec (Chinese)	
	2902524	1	Decal Kit - Country Spec (CSA)	
	2902532	Ref	Decal Kit - Country Spec (Korean)	
	2902525	1	Decal Kit - Country Spec (Latin American)	
	2902267	Ref	Decal Kit - Master	
	1001091968	Ref	Decal Kit - Platform Box	
	1001091393	Ref	Decal and Housing Kit - Platform Box	
	1001091965	Ref	Decal, Housing and PC Board Kit - Platform Box	
	1001233087	Ref	INSTALL,MOTOR COVER,ES3246	
	2915043	Ref	Drive Motors Replacing Kit (Peerless Motors)	
		Ref	Electrical Connector Kits	
	1001148902	Ref	Amp/Tyco Electrical Connector Kit	
	1001148903	Ref	Deutsch DT Electrical Connector Kit	
	1001148904	Ref	Deutsch HD Electrical Connector Kit	
	1001148905	Ref	Packard Electrical Connector Kit	
	1001148906	Ref	Various Electrical Connectors Kit	
	1001184842	Ref	Electrician's Package without Power (Note: See PLATFORM SECTION)	
	1001184843	Ref	Electrician's Package with 12VDC Power (Note: See PLATFORM SECTION)	
	1001247037	Ref	Enhanced Detection System (EDS) Installation Kit - Level 1	
	1001247036	Ref	Enhanced Detection System (EDS) Installation Kit - Level 2	
	1001109345	Ref	ES Pothole Protection Switch Kit	
	0274849	Ref	Fire Extinguisher Installation (ANSI Spec Only) **(SN 0200239382 through 0200245234)**	
	1001189484	Ref	Fire Extinguisher Installation (ANSI Spec Only) **(SN 0200245235 to Present)**	
	0273762	Ref	Footswitch Installation with LSS (ANSI Export, Japanese and Korea Specs)	
	1001185669	Ref	Footswitch Installation without LSS (Factory Installed) (Japanese Spec Only)	
	1001192500	Ref	Footswitch Installation without LSS (Add-on Kit) (Japanese Spec Only)	
	1001219426	Ref	Frame Protective Cover (All Specs Except CE Specs)	
	2300028	Ref	Hydraulic Fluid - Mobil DTE 10 Excel 15 (Machines with Standard Oil)	
	2300042	Ref	Hydraulic Fluid - Mobil EAL H 32 (Machines with Biodegradeable Oil)	
	0273859	Ref	Hydraulic Pressure Checks Installation (All Specs except Australian and CE Specs)	
	1001154518	Ref	Inverter/Battery Charger (900W-60Hz) Installation (2646/3246ES ANSI Spec Only)	
	1001140336	Ref	Latch, Magnetic Gate (ANSI, ANSI Export, Australian, China, Japanese and Korea Specs)	
	0273454	Ref	Lifting Lugs Installation (Factory Installed) (All Specs except Australian Specs)	
	1001229207	Ref	Lifting Lug Add-On Kit (Customer Installed) (All Specs except Australian Specs)	
	1001215518	Ref	Machine Kit	C
	1001215522	1	2646ES Machine Sub-Assembly	B
	1001215524	1	3246ES Machine Sub-Assembly	B
	1001219125	1	Controller (ES System Module)	
	1001215241	1	Batteries Installation (220 A-HR) (Standard)	
	1001215242	1	Batteries Installation (245 A-HR) (No Lock)	

SECTION 10 - SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001215243	1	Batteries AGM Installation (220 A-HR) (No Lock)	
	2940175	1	Battery Cover Latch (Locking)	
	1001199182	Ref	Pipe Rack Installation Kit (Customer Installed)	
	1001184845	Ref	Plant Maintenance Package (Note: See PLATFORM SECTION)	
	1001238848	Ref	Platform Chain Entry Kit	
	1001118216	Ref	Platform Control Box Cover Installation (ANSI Export, CE, Chinese, Japanese, Korea and UL Specs)	
	1001104468	Ref	Platform Corner Hook Kit	
	1001231786	Ref	Platform Extension Block Installation	
	1001214536	Ref	Platform Extension Lock Replacement Kit	
	1001213818	Ref	Platform Overhead Switch Kit	
	1001213858	Ref	Platform Overhead Switch Kit	
	1001176745	Ref	Platform Rail Padding Installation (Available on All Specs)	
	1001176750	Ref	Platform Rail Padding with Limit Switches (ANSI and UL Specs)	
	1001176748	Ref	Platform Rail Padding with Limit Switches (ANSI, ANSI Export, Chinese and Korea Specs)	
	1001232572	Ref	Platform Soft Touch Kit (ANSI, ANSI Export and China Specs)	
	1001180073	Ref	Platform Worklights Installation (Note: Not Available on UL Machines)	
	1001182326	Ref	Platform Worklights Installation (Available on All Specs)	
	1001220688	Ref	Platform Worklights Installation - 24Volt (Dual) (ANSI Export, China and Korea Specs Only)	
	1001184844	Ref	Plumber's Package (Note: See PLATFORM SECTION)	
	1001176752	Ref	Rail Pads with Proximity Switch Installation (CE and Australian Specs)	
	1001176754	Ref	Rail Pads with Proximity Switch Installation - 2646ES (ANSI Export, Chinese and Korea Specs)	
	1001171015	Ref	RCD Box Installation (Brazil Spec Only)	
	3125053	Ref	Video, Operators (ANSI, ANSI Export and UL Specs)	
	1001185053	Ref	White Noise Motion Alarm Kit	
	1001193039	Ref	ZAPI Programming Harness	

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