



Illustrated Parts Manual

MODELS

1930ES

SN 0200198014
TO 0200239381
SN B200000100
TO B200020296

2030ES/2630ES

SN 0200198014
TO PRESENT
SN B200000100
TO PRESENT

2646ES/3246ES

SN 0200198014
TO 0200239381
SN B200000100
TO B200020296

3121275

September 15, 2015

ANSI

CE



JLG[®]

An Oshkosh Corporation Company

REVISION LOG

NOTES:

NOTE: Country of Manufacture - The ES Scissor Lifts are manufactured by JLG Industries in the following countries: USA, Belgium or China. Refer to the Serial Number Tag to identify the country of manufacture. ES Scissors manufactured in the USA will have a serial number prefix of 02 (i.e. 02XXXXXXXX), ES Scissors manufactured in Belgium will have a prefix of 12 (i.e. 12XXXXXXXX) and ES Scissors manufactured in the China will have a serial number prefix of B2 (i.e. B2XXXXXXXX).

NOTE: 1930ES, 2030ES, 2630ES, 2646ES & 3246ES Global Illustrated Parts Manual P/N 3121167 has been replaced by multiple manuals. Review machine SN and use the Global Illustrated Parts Manual for the correct serial number range:

USA Built Machines Prior to SN 0200135154 - Use manual p/n 3121246.

USA Built Machines SN 0200135154 to SN 0200152824 - Use manual p/n 3121247.

USA Built Machines SN 0200152825 to SN 0200198013 - Use manual p/n 3121248.

USA Built Machines SN 0200198014 to SN 0200239381 - Use manual p/n 3121275.

USA Built Machines SN 0200239382 to Present - Use manual p/n 3121681 (1930ES)

- Use manual p/n 3121682 (2032ES and 2632ES)

- Use manual p/n 3121683 (2646ES and 3246ES)

Belgium Built Machines Prior to SN 1200004293 - Use manual p/n 3121246.

Belgium Built Machines SN 1200004293 to SN 1200008480 - Use manual p/n 3121247.

Belgium Built Machines SN 1200008481 to Present - Use manual p/n 3121248.

China Built Machines SN B200000100 to SN B200020296 - Use manual p/n 3121275.

China Built Machines SN B200020297 to Present - Use manual p/n 3121681 (1930ES)

- Use manual p/n 3121682 (2032ES and 2632ES)

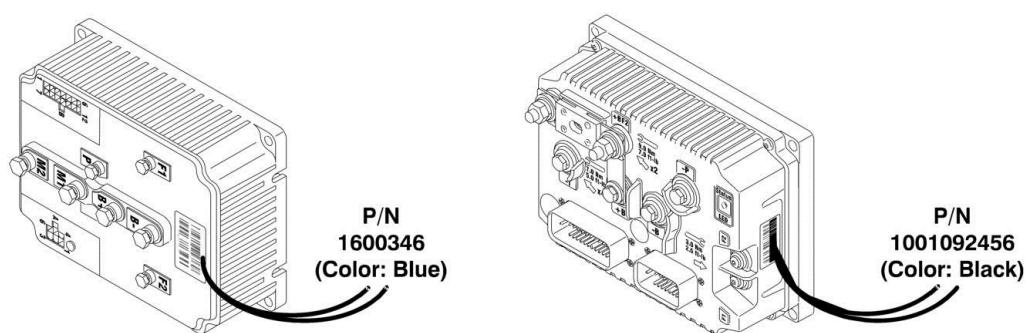
- Use manual p/n 3121683 (2646ES and 3246ES)

NOTE: Drive Module Identification - The module is located inside a compartment on the frame behind the front drive wheels. Remove the cover and identify the drive module by part number or visual identification (See illustration below). Also, identify the country of manufactured by referring to the SN nameplate before ordering parts (See note above).

USA built machines: All machines built Prior to SN 0200198014 use the 1600346 Drive Module. All Machines built SN 0200198014 to present machines use the 1001092456 Drive Module.

Belgium built machines. All machines use the 1600346 Drive Module.

China built machines: All machines use the 1001092456 Drive Module.



MANUAL REVISION LOG:

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October 7, 2011 - Revised Manual (Edited B/M 0010588 Revision C)

January 10, 2012 - Revised Manual (Edited B/M 0010588 Revision D)

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January 10, 2013 - Revised Manual (Edited B/M 0010588 Revision H)

April 15, 2013 - Revised Manual (Edited B/M 0010588 Revision H)

July 10, 2013 - Revised Manual (Edited B/M 0010588 Revision H)

REVISION LOG

October 9, 2013 - Revised Manual (Edited B/M 0010588 Revision H)

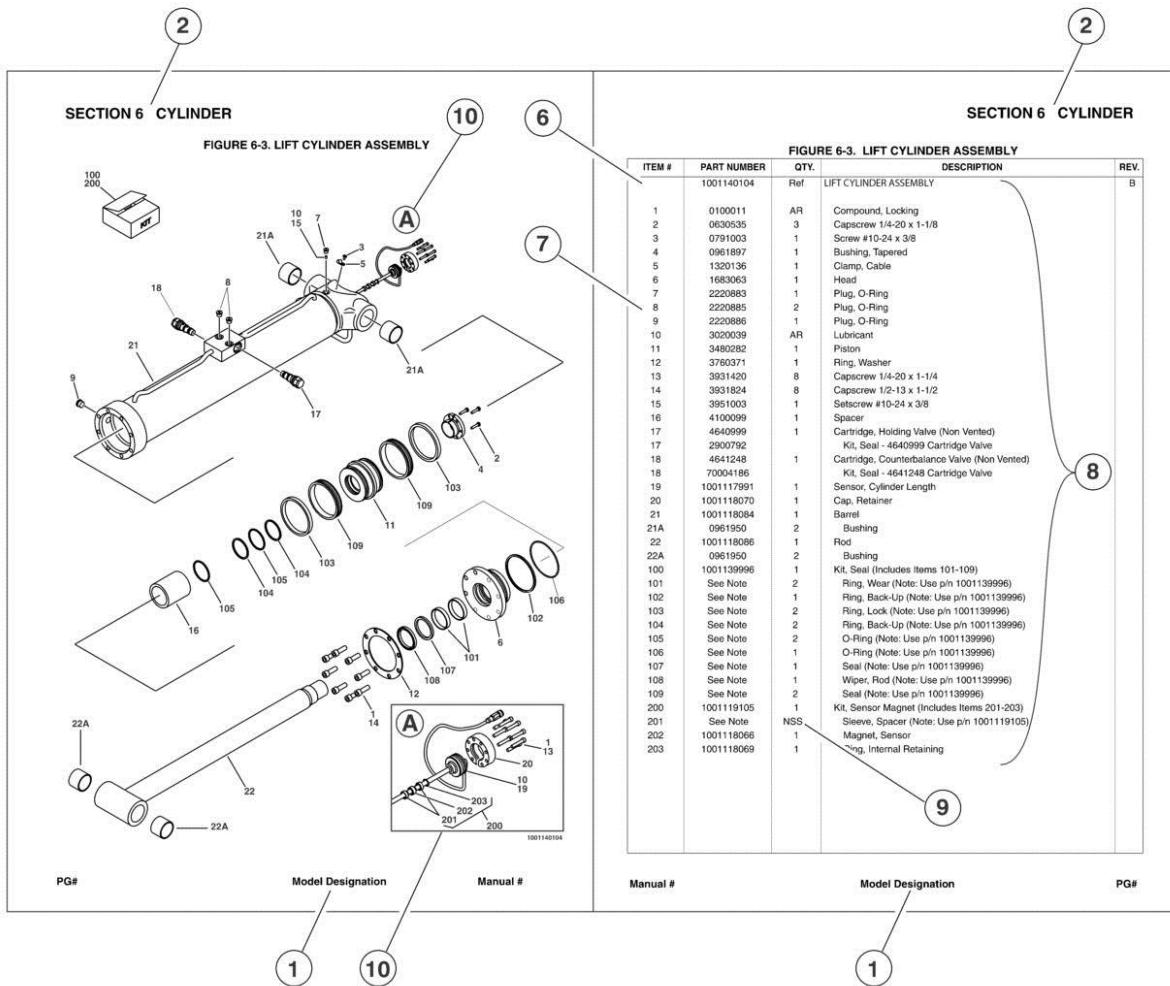
March 14, 2014 - Revised Manual (Edited B/M 0010588 Revision Q)

November 4, 2014 - Revised Manual

July 1, 2015 - Revised Manual

September 15, 2015 - Revised 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

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

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

5) PART NUMBER INDEX

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) ABB REVIATION AND SYMBOLS

AC.....	Alternating Current
ADE.....	Advanced Design Electronics
ANSI.....	American National Standards Institute
AR..	As Required
ASSY	Assembly
AUX.....	Auxiliary
AWG.....	American WireGauge
B/M.....	Bill of Material
CE..	European Conformity
CCW	Counter Clockwise
cm.....	Centimeter
CW	Clockwise
CSA.....	Canadian Standards Association
CYL.....	Cylinder
DIA.....	Diameter
DC	Direct Current
EMS	Emergency Stop
ENG	Engine
FT(ft).....	Feet
GA(Ga).....	Gauge
HYD	Hydraulic
Hz.....	Hertz
ID.....	Inside Diameter
in....	inches
ISO	International Organization for Standards
JIC.....	Joint Industry Council
KG	Kilogram
L.....	Liter
LB	Pounds
LCD	Liquid Crystal Display
LED	Light Emitting Diodes
LH...	Left Hand
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
P/N	Part Number
qt.....	Quarts
QTY.....	Quantity
REF	Reference
REV	Revision Level
RH...	Right Hand
SAE.....	Society of Automotive Engineers
SN..	Serial Number
SPEC(S).....	Specifications
T/T.....	Turntable
UGM	Universal Ground Module
V.....	Volts
W	Watts
#	Number

10) ILLUSTRATION REFERENCE LETTERS

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

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

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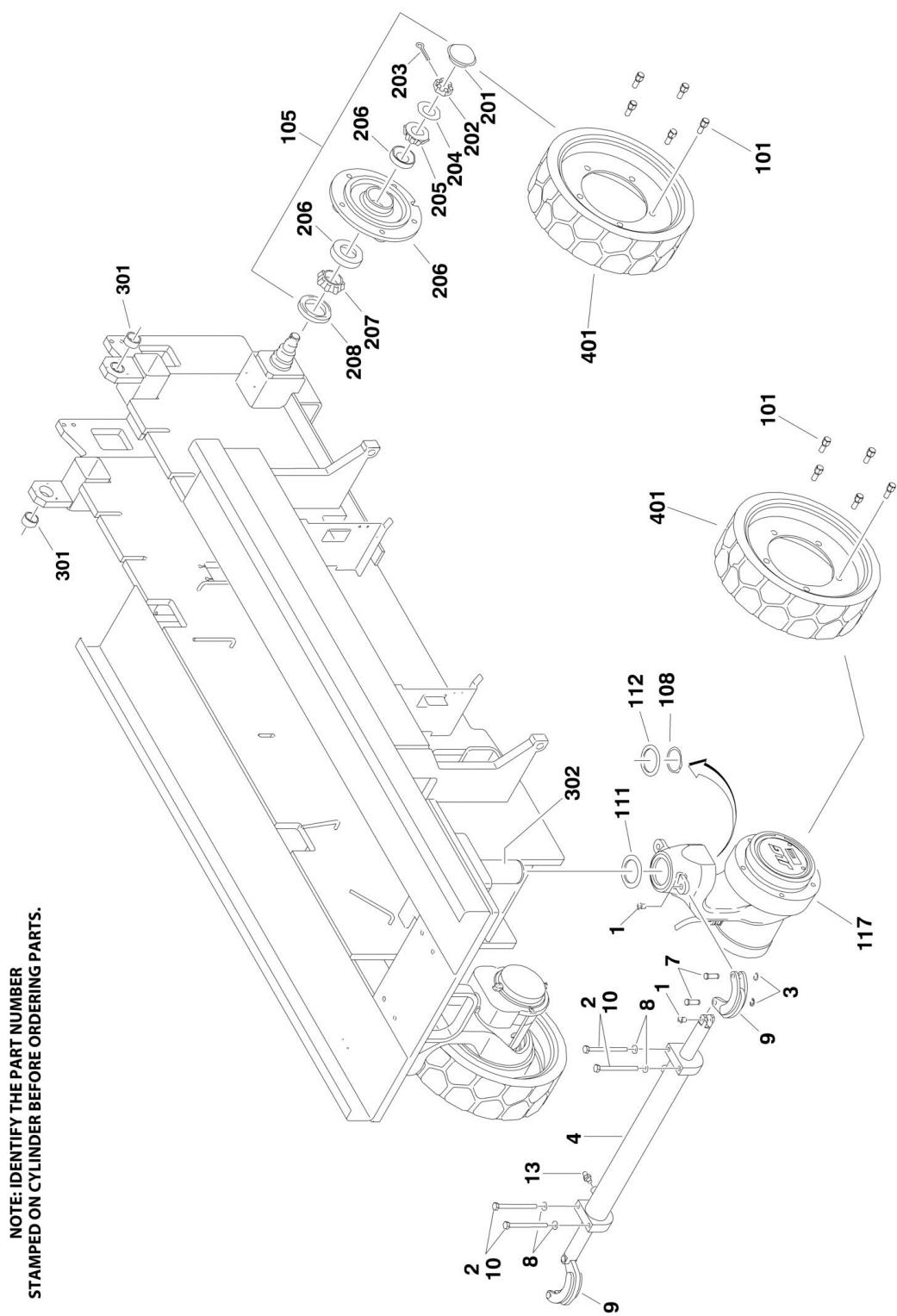
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SECTION 1 - FRAME

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FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS



SECTION 1 - FRAME

FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	STEERING INSTALLATION	
	0272371	Ref	USA Built Machines	
		Ref	USA Built Machines 1930ES (SN 0200198014 through 0200226776)	L
	1001157326	Ref	USA Built Machines 1930ES (SN 0200226777 through 0200227794)	B
	1001131074	Ref	USA Built Machines 1930ES (SN 0200227795 through 0200237861)	E
	1001157326	Ref	USA Built Machines 1930ES (SN 0200237862 through 0200239381)	B
	0273227	Ref	USA Built Machines 2030ES/2630ES (SN 0200198014 through 0200226776)	J
	1001157327	Ref	USA Built Machines 2030ES/2630ES (SN 0200226777 through 0200227794)	B
	1001131075	Ref	USA Built Machines 2030ES/2630ES (SN 0200227795 through 0200237861)	D
	1001157327	Ref	USA Built Machines 2030ES/2630ES (SN 0200237862 through 0200239381)	B
	0274546	Ref	USA Built Machines 2646ES/3246ES (SN 0200198014 through 0200226776)	G
	1001157328	Ref	USA Built Machines 2646ES/3246ES (SN 0200226777 through 0200228265)	B
	1001131076	Ref	USA Built Machines 2646ES/3246ES (SN 0200228266 through 0200237861)	E
	1001157328	Ref	USA Built Machines 2646ES/3246ES (SN 0200237862 through 0200239381)	B
		Ref	China Built Machines:	
	0272371	Ref	China Built Machines 1930ES (SN B200000100 through B200014592)	J
	1001131074	Ref	China Built Machines 1930ES (SN B200014593 through B200020296)	B
	0273227	Ref	China Built Machines 2030ES/2630ES (SN B200000100 through B200014592)	I
	1001131075	Ref	China Built Machines 2030ES/2630ES (SN B200014593 to Present)	C
	0274546	Ref	China Built Machines 2646ES/3246ES (SN B200000100 through B200014592)	E
	1001131076	Ref	China Built Machines 2646ES/3246ES (SN B200014593 through B200020296)	B
1	0440259	2	Bearing, Flanged	
2		Ref	Bolt M10 Options:	
2	0701016	4	Bolt 40mm Length	
2	0701020	4	Bolt 60mm Length	
3	1380153	4	E-Clip	
4		Ref	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown):	
		Ref	USA Built Machines	
4	1684237	1	Steer Cylinder Assembly USA Built Machines 1930ES/2030ES/2630ES (SN 0200198014 through 0200226776)	
4	1001155850	1	Steer Cylinder Assembly USA Built Machines 1930ES/2030ES/2630ES (SN 0200226777 through 0200227794)	
4	1001129267	1	Steer Cylinder Assembly USA Built Machines 1930ES/2030ES/2630ES (SN 0200227795 through	

SECTION 1 - FRAME

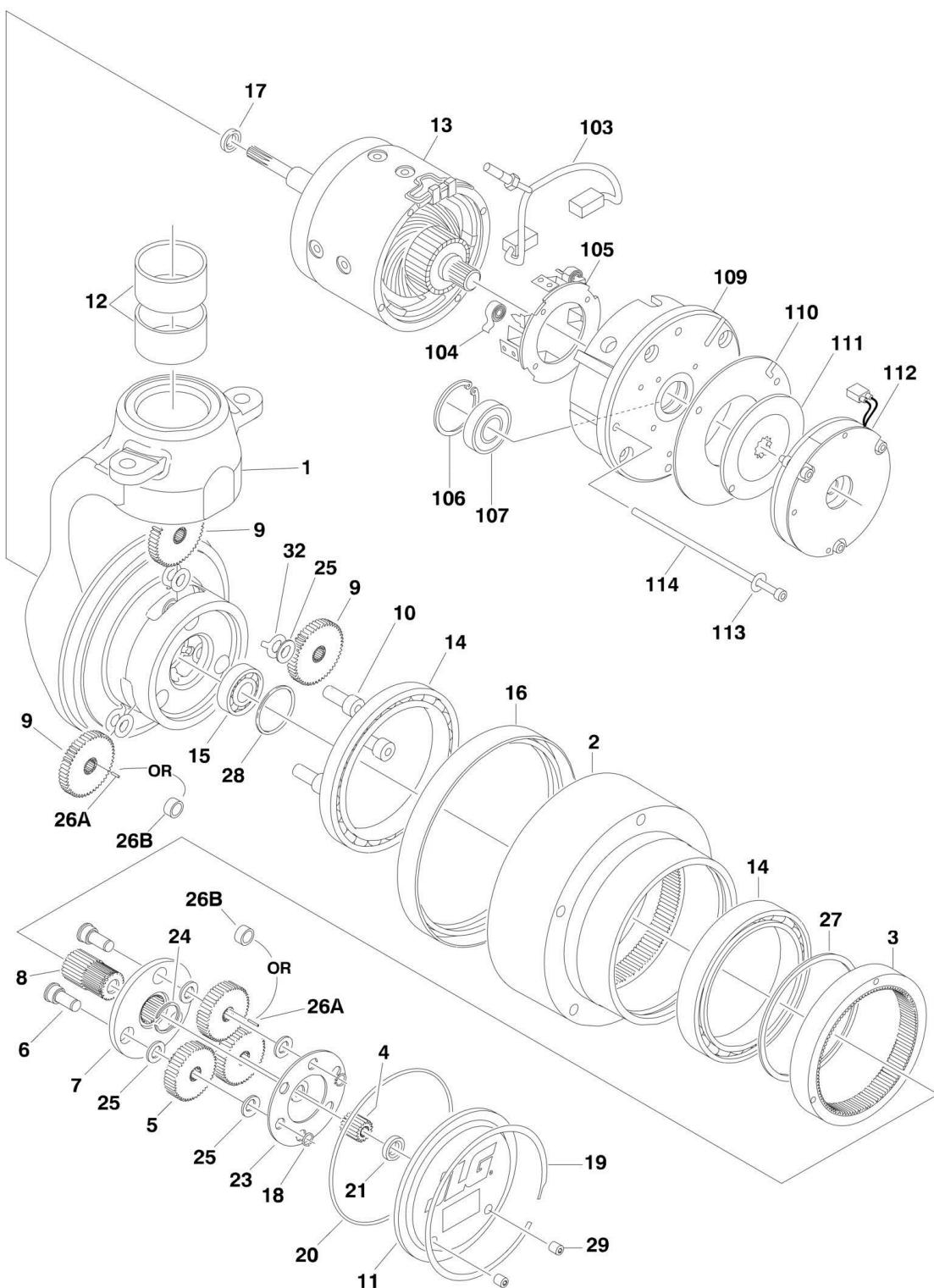
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			0200237861)	
4	1001155850	1	Steer Cylinder Assembly USA Built Machines 1930ES/2030ES/2630ES (SN 0200237862 through 0200239381)	
4	1684456	1	Steer Cylinder Assembly USA Built Machines 2646ES/3246ES (SN 0200198014 through 0200226776)	
4	1001155851	1	Steer Cylinder Assembly USA Built Machines 2646ES/3246ES (SN 0200226777 through 0200228265)	
4	1001129268	1	Steer Cylinder Assembly USA Built Machines 2646ES/3246ES (SN 0200228266 through 0200237861)	
4	1001155851	1	Steer Cylinder Assembly USA Built Machines 2646ES/3246ES (SN 0200237862 through 0200239381)	
4		Ref	China Built Machines	
4		Ref	China Built Machines 1930ES/2030ES/2630ES	
4	1684237	1	Steer Cylinder Assembly China Built Machines 1930ES (SN B200000100 through B20014592)	
4	1001129267	1	Steer Cylinder Assembly China Built Machines 1930ES (SN B200014593 through B20020296)	
4	1001129267	1	Steer Cylinder Assembly China Built Machines 2030ES/2630ES (SN B200014593 to Present)	
4		Ref	China Built Machines 2646ES/3246ES	
4	1684456	1	Steer Cylinder Assembly China Built Machines (SN B200000100 through B20014592)	
4	1001129268	1	Steer Cylinder Assembly China Built Machines (SN B200014593 through B20020296)	
7	3423037	4	Pin, Clevis	
8	4812000	4	Flatwasher M10	
9	4846757	2	Lug, Steer	
10	0100011	AR	Compound, Locking	
13	2110404	2	Fitting, Straight	
		Ref	DRIVE INSTALLATION	
	1001117032	Ref	Drive Installation 1930ES	B
	1001114882	Ref	Drive Installation 2030ES/2630ES	D
	1001117033	Ref	Drive Installation 2646ES/3246ES	B
101	0630580	20	Bolt, Wheel	
105	2780266	2	Hub Assembly (See Items 201-208 for Breakdown)	
108	3760463	2	Ring, Retaining	
111	4740524	2	Thrustwasher M60	
112	4740564	2	Washer, Spindle Retaining	
117		Ref	Wheel Drive Assembly Options (See WHEEL DRIVE ASSEMBLY for Breakdown):	
117	1001092737	2	Wheel Drive Assembly 1930ES	
117	1001092738	2	Wheel Drive Assembly 2030ES/2630ES/2646ES/3246ES	
117	1001092738	2	Wheel Drive Assembly 2646ES/3246ES	
	2780266	Ref	HUB ASSEMBLY	D
		Ref	Note: Qts shown for 1 Assembly. Two Assemblies required per machine.	
201	1001102354	1	Cap, Dust (was p/n 7012524)	
202	3300423	1	Nut, Slotted (was p/n 7010641)	
203	3450406	1	Pin, Cotter 2in x 3/16in (was p/n 7010642)	
204	4740468	1	Washer (was p/n 7019697)	
205	1001102351	1	Bearing, Cone - Outer (was p/n 7026185)	
206	See Note	NSS	Hub (Note: Use p/n 2780266)	
207	1001102353	1	Bearing, Cone - Inner (was p/n 7026183)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
208	1001102349	1	Seal (was p/n 7026184)	
		Ref	FRAME WELDMENTS	
301		Ref	Bushing Options:	
301	0440264	2	Bushing 1930ES	
301	0440265	2	Bushing 2030ES/2630ES/2646ES/3246ES	
302		Ref	Kingpin Rework Instruction Options (Provides rework procedure for damaged kingpins):	
302	3128601	AR	Kingpin Rework Instruction 1930ES/2030ES/2630ES	
302	3128703	AR	Kingpin Rework Instruction 2646ES/3246ES	
		Ref	TIRE AND WHEEL INSTALLATION	
	0010588	Ref	Tire and Wheel Installation 1930ES USA Built Machines (SN 0200198014 through 0200239381)	
	0010588	Ref	Tire and Wheel Installation 1930ES China Built Machines (SN B200000100 through B200020296)	
	0010588	Ref	Tire and Wheel Installation 2030ES/2630ES USA Built Machines (SN 0200198014 to Present)	
	0010588	Ref	Tire and Wheel Installation 2030ES/2630ES China Built Machines (SN B200000100 to Present)	
	0010588	Ref	Tire and Wheel Installation 2646ES/3246ES USA Built Machines (SN 0200198014 through 0200239381)	
	0010588	Ref	Tire and Wheel Installation 2646ES/3246ES China Built Machines (SN B200000100 through B200020296)	
401		Ref	Tire and Wheel Assembly Options:	
		Ref	Note: Must replace Tire and Wheel Assemblies in pairs per axle.	
401	4520565	NLA	Tire and Wheel Assembly 1930ES (Use p/n 2915012)	
401	1001100840	NLA	Tire and Wheel Assembly 1930ES (Use p/n 2915012)	
401	1001114467	NLA	Tire and Wheel Assembly 1930ES (Use p/n 2915012)	
401	4520676	NLA	Tire and Wheel Assembly 2030ES/2630ES/2646ES/3246ES (Use p/n 2915013)	
401	1001100894	NLA	Tire and Wheel Assembly 2030ES/2630ES/2646ES/3246ES (Use p/n 2915013)	
401	1001114466	NLA	Tire and Wheel Assembly 2030ES/2630ES/2646ES/3246ES (Use p/n 2915013)	

SECTION 1 - FRAME

FIGURE 1-2. WHEEL DRIVE ASSEMBLY

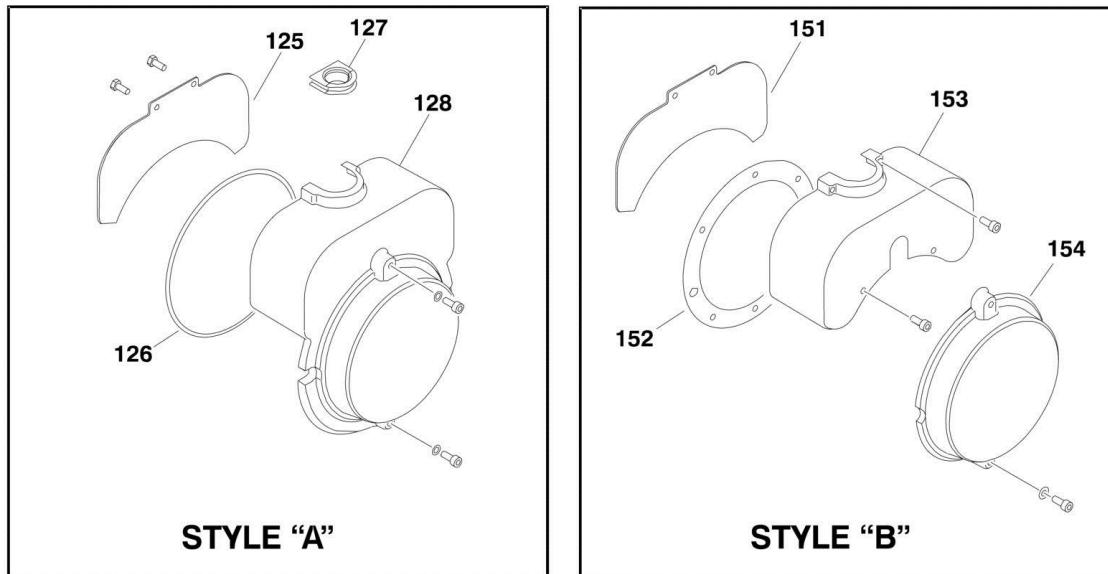
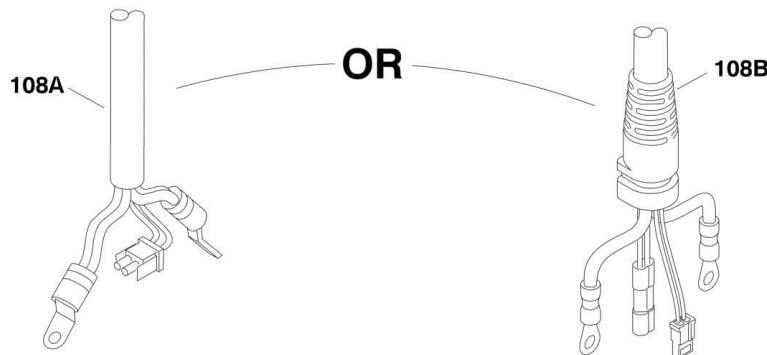


SECTION 1 - FRAME

201
202
203
204
205A
205B
205C
205D
206

KIT

207
208
209
210A
210B
211A
211B



SECTION 1 - FRAME

FIGURE 1-2. WHEEL DRIVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			WHEEL DRIVE ASSEMBLY (ADVANCED)	
	1001092737	Ref	Wheel Drive Assembly (Advanced) 1930ES	G
	1001092738	Ref	Wheel Drive Assembly (Advanced) 2030ES/2630ES/2646ES/3246ES	I
		Ref	Note: Due to service updates, drive motors may use any of the various parts listed below. Visual identification will be required.	
		Ref	HUB ASSEMBLY	
1	See Note	NSS	Spindle (Note: Not Available for Purchase)	
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 205A, 205B, 205C or 205D)	
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	Thrustwasher (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	Thrustwasher (Note: Use Item 203 or 207)	
26	See Note	NSS	Bearing/Bushing Options (Note: Use Item 203 or 207):	
26A	See Note	NSS	Bearing, Needle (Note: Use Item 203 or 207)	
26B	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		Ref	Harness, Electrical Cable Options:	
108A	1001099628	1	Harness, Electrical Cable 1930ES (was p/n 7024770)	
108A	1001099676	1	Harness, Electrical Cable 2030ES/2630ES/2646ES/3246ES (was p/n 7024770 & 7024775)	
108B	1001091502	1	Harness, Electrical Cable 1930ES	

SECTION 1 - FRAME

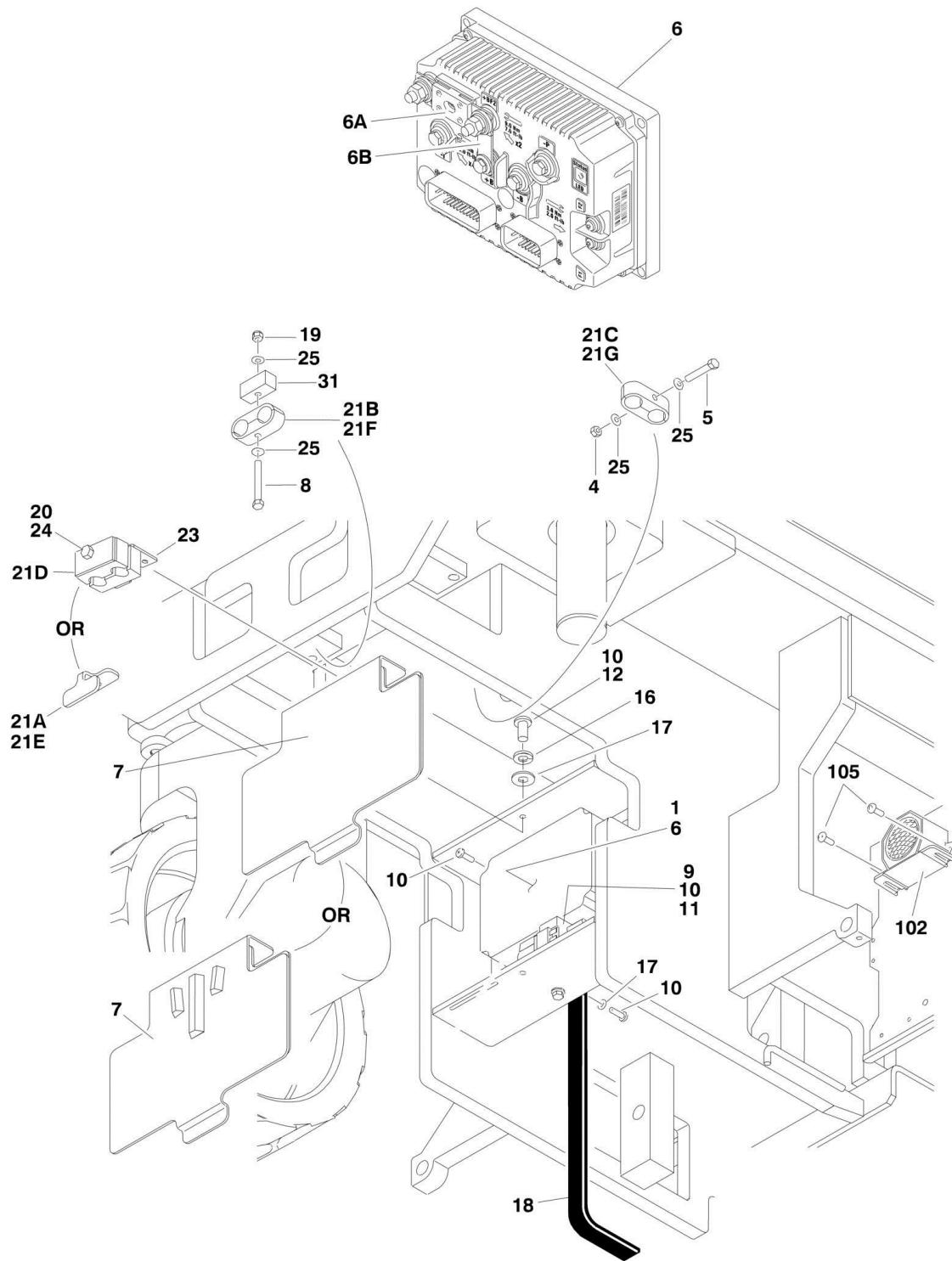
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
108B	1001091843	NLA	Harness, Electrical Cable 2030ES/2630ES/2646ES/3246ES USA Built Machines (Use p/n 1001134012) (SN 0200198014 through 0200207813)	
108B	1001091843	NLA	Harness, Electrical Cable 2030ES/2630ES/2646ES/3246ES China Built Machines (Use p/n 1001134012) (SN B200000100 through B200000241)	
108B	1001132439	1	Harness, Electrical Cable 2030ES/2630ES USA Built Machines (SN 0200207814 to Present)	
108B	1001132439	1	Harness, Electrical Cable 2646ES/3246ES USA Built Machines (SN 0200207814 through 0200239381)	
108B	1001132439	1	Harness, Electrical Cable 2030ES/2630ES China Built Machines (SN B200000242 to Present)	
108B	1001132439	1	Harness, Electrical Cable 2646ES/3246ES China Built Machines (SN B200000242 through B200020296)	
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	Flatwasher (Note: Use Item 210A or 210B)	
114	See Note	NSS	Bolt (Note: Use Item 210A or 210B)	
		Ref	Style "A" Brake Cover	
125	See Note	NSS	Plate, Cover (Note: Use Item 211A or 211B)	
126	See Note	NSS	O-Ring (Note: Use Item 210A, 210B, 211A or 211B)	
127	70000383	1	Connector, Strain Relief	
128	See Note	NSS	Cover (Note: Use Item 211A or 211B)	
		Ref	Style "B" Brake Cover	
151	See Note	NSS	Plate, Cover (Note: Use Item 211A or 211B)	
152	70001949	1	Gasket, Cover	
153	See Note	NSS	Cover, Top (Note: Use Item 211A or 211B)	
154	See Note	NSS	Cover, End (Note: Use Item 211A or 211B)	
		Ref	KIT OPTIONS	
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		Ref	Motor Kit Options (Includes Items 13, 17, 103-114 & 151-154):	
205		Ref	Motors with Item #108A Style Electrical Cable	
205A	1001100819	1	Motors with Item #108A Style Electrical Cable 1930ES (was p/n 7024774)	
205B	1001100820	1	Motors with Item #108A Style Electrical Cable 2030ES/2630ES/2646ES/3246ES (was p/n 7024777)	
205		Ref	Motors with Item #108B Style Electrical Cable	
205C	70001263	1	Motors with Item #108B Style Electrical Cable 1930ES	
205D	70001345	1	Motors with Item #108B Style Electrical Cable 2030ES/2630ES/2646ES/3246ES	
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)	
209	7024772	1	Brake Kit (Includes Items 110, 111 & 112)	
210		Ref	Motor Hardware Kit (Includes Items 113 & 114)	
210A	7024773	1	Motor Hardware Kit 1930ES	
210B	7024776	1	Motor Hardware Kit 2030ES/2630ES/2646ES/3246ES	
211		Ref	Brake Cover Kit Options:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
211A	7024787	1	Brake Cover Kit Style "A" (Includes Items 125-128)	
211B	70001265	1	Brake Cover Kit Style "B" (Includes Items 151-154)	

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FIGURE 1-3. DRIVE MODULE AND OTHER FRAME MOUNTED COMPONENTS



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FIGURE 1-3. DRIVE MODULE AND OTHER FRAME MOUNTED COMPONENTS

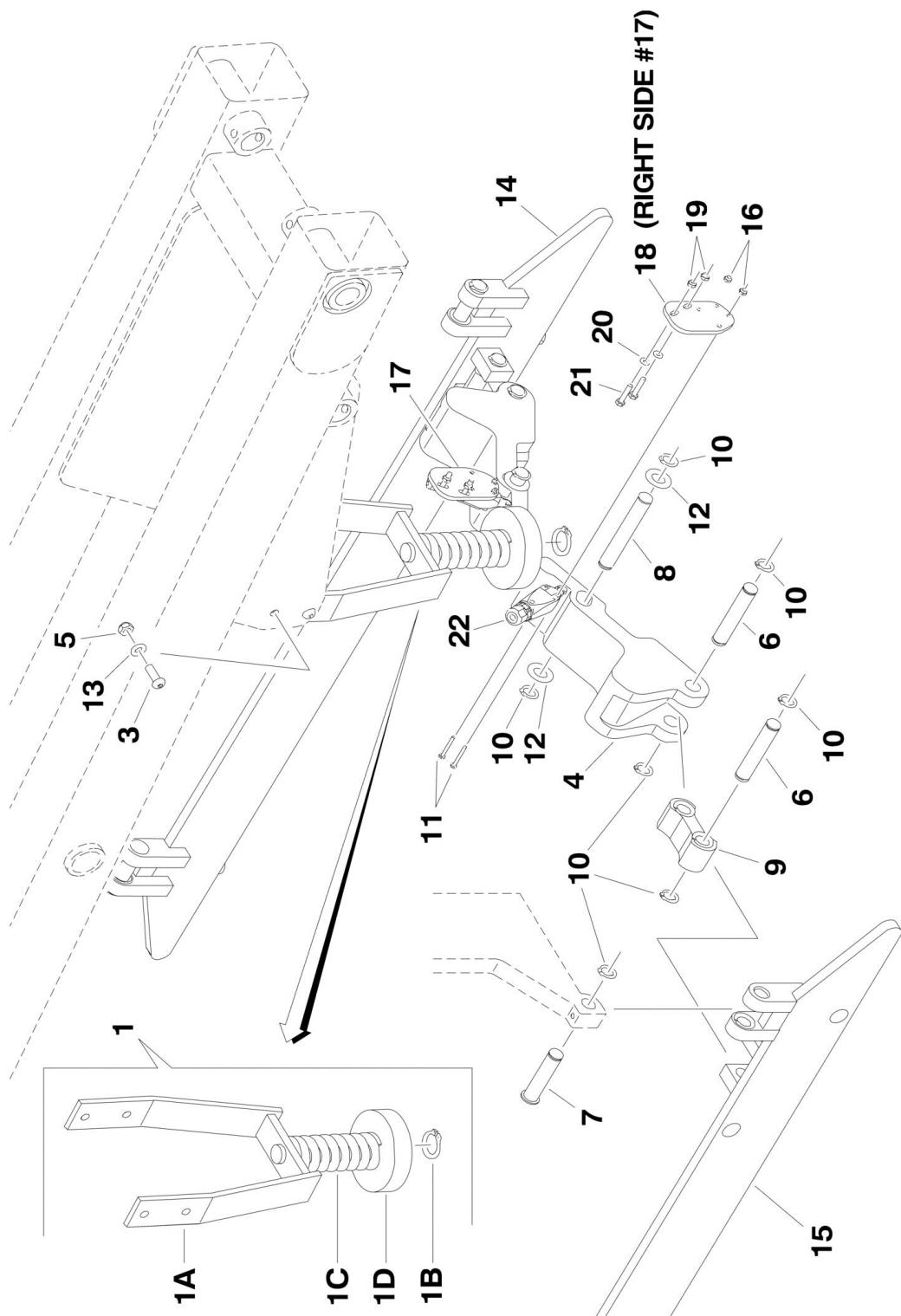
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DRIVE MODULE INSTALLATION	
	1001092739	Ref	Drive Module Installation 1930ES:	D
	1001117032	Ref	USA Built Machines	B
		Ref	China Built Machines	
	1001092740	Ref	Drive Module Installation 2030ES/2630ES:	D
	1001114882	Ref	USA Built Machines	B
		Ref	China Built Machines	
	1001092741	Ref	Drive Module Installation 2646ES/3246ES:	D
	1001117033	Ref	USA Built Machines	B
1	0100083	AR	China Built Machines	
4	3290605	AR	Grease, Heat Transfer	
5	0700619	AR	Locknut M6	
6	1001092456	1	Bolt M6 x 55mm	
6A	70002683	1	Module, Drive	
6B	70002682	1	Fuse	
7		Ref	Bussbar	
7		Ref	Cover Options:	
7	1671132	1	Cover 1930ES/2030ES/2630ES	
7	1001115170	1	Cover USA Built Machines	
7	1671133	1	Cover China Built Machines	
8	0700624	AR	Cover 2646ES/3246ES	
9	4191706	AR	Bolt M6 x 80mm	
10	4191708	AR	Bolt M6 x 12mm	
11	3740150	1	Bolt M6 x 20mm	
12	4191709	AR	Relay	
16	4831700	AR	Bolt M6 x 25mm	
17	4751400	AR	Lockwasher M6	
18	4240147	1	Flatwasher 1/4in Wide	
19	3290606	AR	Strap, Anti-Static	
20	0700819	AR	Locknut M6	
21		Ref	Bolt M8 x 55mm	
21		Ref	Clamp, Cable Options:	
21		Ref	Note: Due to service updates, cable clamps may be any of the various designs listed below. Visual identification will be required.	
21A	3574714	1	All except UL Spec	
21B	1001091492	1	Clamp (All Models)	
21B	1001094301	1	Clamp (USA Built Machines 1930ES) (SN 0200198014 through 0200235171)	
21B	1001094301	1	Clamp (USA Built Machines 1930ES) (SN 0200235172 through 0200239381)	
21B	1001091492	1	Clamp (China Built Machines 1930ES) (SN B200000100 through B200017161)	
21B	1001094301	1	Clamp (China Built Machines 1930ES) (SN B200017162 through B200020296)	
21C	1001094301	2	Clamp (2030ES/2630ES/2646ES/3246ES)	
21C		Ref	UL Spec	
21D	1320162	1	Clamp (All Models)	
21E	3574714	1	Clamp (1930ES)	
21F	1001091492	1	Clamp (1930ES)	
21G	1001094301	2	Clamp (2030ES/2630ES/2646ES/3246ES)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	4340751	AR	Mount, Cable Clamp (UL Spec Only)	
24	4811900	AR	Flatwasher M8	
25	4811700	AR	Flatwasher M6	
30	4923602	1	Harness, Field Wire Connection (Not Shown - See ELECTRICAL SECTION for Breakdown)	
31	1001094124	AR	Block, Spacer (1930ES with Service Upgrade Only)	
	1001114885	Ref	ALARM INSTALLATIONS	
	1001114885	Ref	Alarm Installation - ANSI, ANSI Export and UL Specs (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001166823	Ref	Alarm Installation - ANSI, ANSI Export and UL Specs (SN 0200238466 through 0200239381)	C
	1001114886	Ref	Alarm Installation - ANSI Export and Japanese Specs (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001114924	Ref	Alarm Installation - Australian Specs without Overload (SN 0200198014 through 0200203603, SN B200000100 through B20002113)	A
	1001114886	Ref	Alarm Installation - Australian Specs without Overload 1930ES/2646ES/3246ES (SN 0200203604 through 0200239381, SN B200002114 through B200020296)	B
	1001114886	Ref	Alarm Installation - Australian Specs without Overload 2030ES/2630ES (SN 0200203604 through 0200238465, SN B200002114 through B200020296)	B
	1001114925	Ref	Alarm Installation - Australian and CE Specs with Overload (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001166828	Ref	Alarm Installation - Australian and Japanese Spec (SN 0200238466 through 0200239381)	B
	1001166825	Ref	Alarm Installation - CE Spec (SN 0200238466 through 0200239381)	B
	0272722	Ref	Descent Alarm	A
	0272913	Ref	Motion Alarm	B
	1001183458	Ref	Ambient Adjustable Alarm	A
	1001185053	Ref	White Noise Alarm	A
102	0140043	1	Alarm (Standard)	
102	1001182806	1	Alarm (Ambient Adjustable) (Not Shown)	
102	1001184682	1	Alarm (White Noise) (Not Shown)	
105	4191706	2	Screw M6 x 12mm	
106	1001185500	1	Harness for Ambient Adjustable Alarm and White Noise Alarm (Not Shown)	

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FIGURE 1-4. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES)



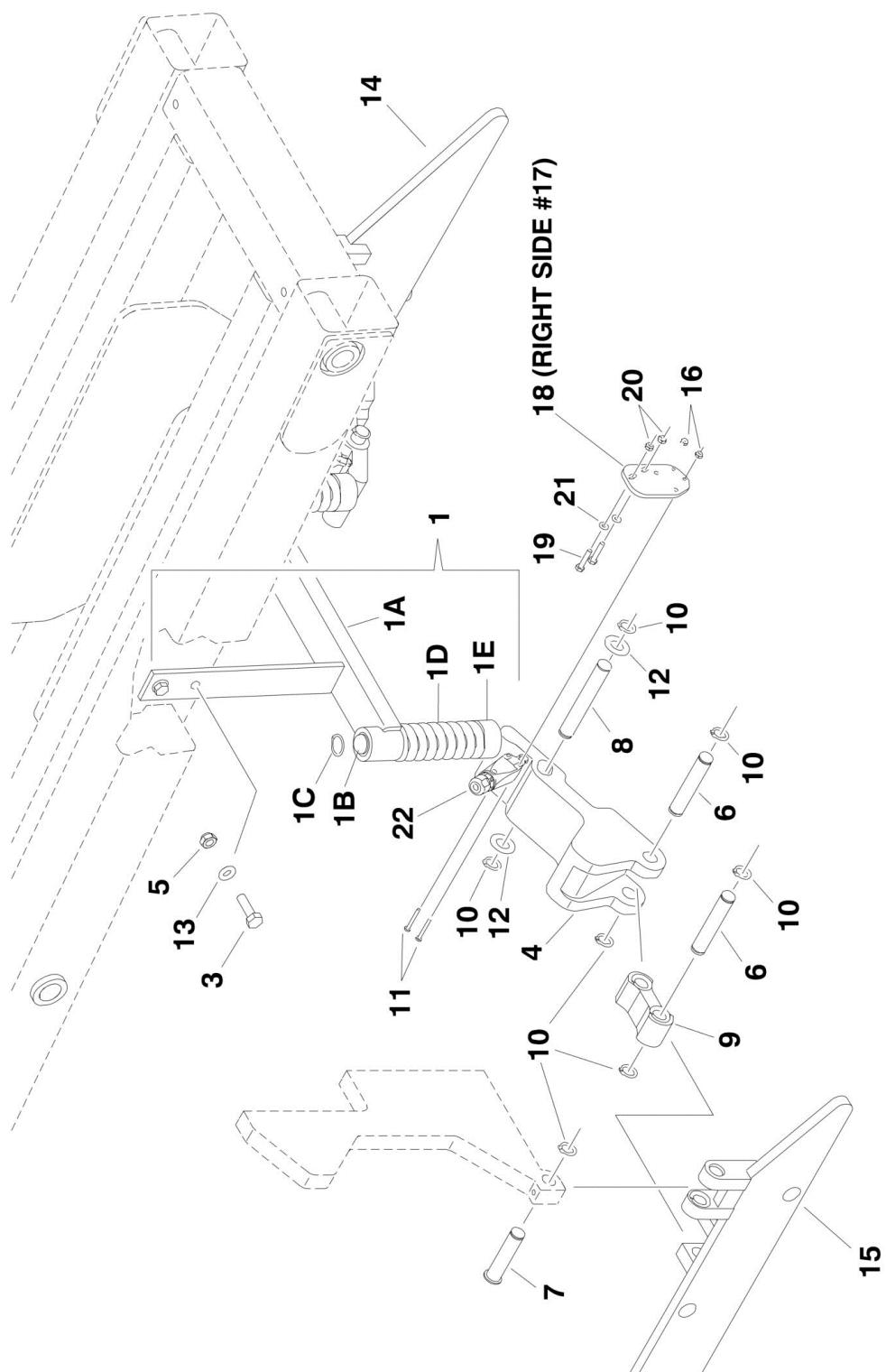
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FIGURE 1-4. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			POTHOLE PROTECTION INSTALLATION	
			Pothole Protection Installation 1930ES	
	1001117265	Ref	All Specs except UL Spec	B
	1001126898	Ref	UL Spec	B
			Pothole Protection Installation 2030ES/2630ES	
	1001115173	Ref	All Specs except UL Spec	A
	1001126900	Ref	UL Spec	A
1	Purchase Individual Pieces	1	Actuator Assembly (was p/n 0060090)	A
1A	0060091	1	Actuator Weldment	
1B	3760115	1	Ring, Retaining	
1C	4160202	1	Spring	
1D	4220287	1	Pad	
3	3900351	4	Screw, Button Head M10 x 30mm	
4	3010158	2	Link	
5	3291005	4	Locknut M10	
6	3423045	4	Pin	
7	3423189	4	Pin	
8	3423267	2	Pin	
9	3574176	2	Link	
9	0440263	4	Bushing	
10	3760348	16	Ring, Retaining	
11		Ref	Screw Options:	
11	4010415	4	Screw M4 x 35mm	
11	4031512	4	Screw M4 x 40mm	
12	4740086	4	Thrustwasher	
13	4812000	4	Flatwasher M10	
14		Ref	Bar, Pothole Support (Right)	
14	4846775	1	Bar, Pothole Support (Right) 1930ES (Not Shown)	
14	4846816	1	Bar, Pothole Support (Right) 2030ES/2630ES	
14	0440263	4	Bushing	
15		Ref	Bar, Pothole Support (Left)	
15	4846861	1	Bar, Pothole Support (Left) 1930ES (Not Shown)	
15	4846863	1	Bar, Pothole Support (Left) 2030ES/2630ES	
15	0440263	4	Bushing	
16	3290405	4	Locknut M4	
17	1001109232	1	Plate, Attach (Right)	
18	1001109233	1	Plate, Attach (Left)	
19	3290605	4	Locknut M6	
20	4811700	4	Flatwasher M6	
21	0700614	4	Screw M6 x 30mm	
22		Ref	Switch, Limit Options:	
22	1001109088	2	Switch, Limit All Specs except UL Spec	
22	1001126905	2	Switch, Limit UL Spec	

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FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES)



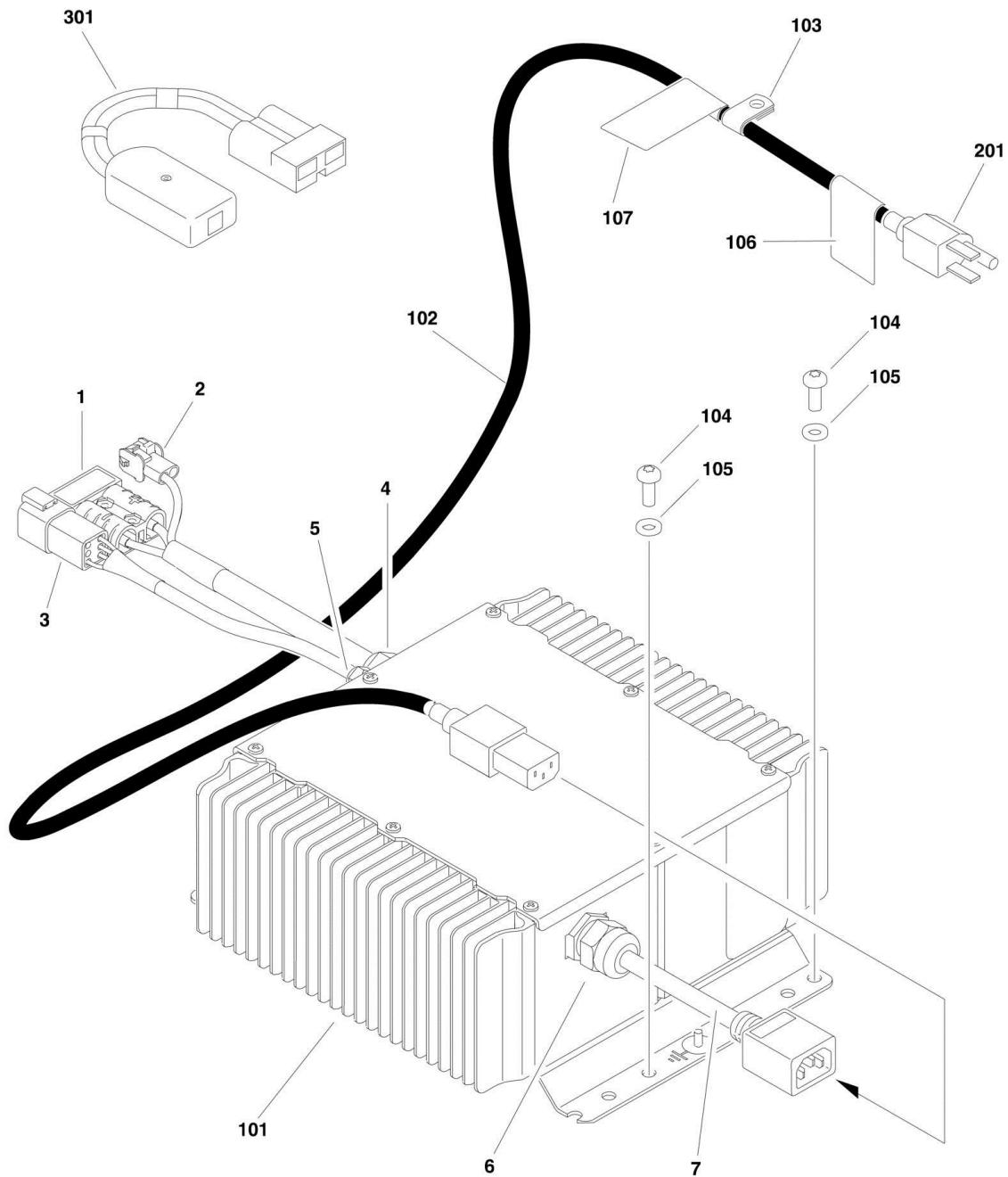
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FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			POTHOLE PROTECTION INSTALLATION	
	1001117266	Ref	All Specs except UL Spec	B
	1001126903	Ref	UL Spec	B
1	Purchase Individual Pieces	1	Actuator Assembly (was p/n 0060092)	B
1A	0060093	1	Actuator	
1B	0962292	4	Bushing	
1B	3423289	2	Pin	
1C	3760115	2	Ring, Retaining	
1D	4160202	2	Spring	
1E	4220293	2	Pad	
3	0701015	4	Screw M10 x 35mm	
4	3010158	2	Link	
5	3291005	4	Locknut M10	
6	3423045	4	Pin	
7	3423189	4	Pin	
8	3423267	2	Pin	
9	3574176	2	Link	
9	0440263	4	Bushing	
10	3760348	16	Ring, Retaining	
11		Ref	Screw Options:	
11	4010415	4	Screw M4 x 35mm	
11	4031512	4	Screw M4 x 40mm	
12	4740086	4	Thrustwasher	
13	4812000	4	Flatwasher M10	
14	4846811	1	Bar, Pothole Support (Right)	
14	0440263	4	Bushing	
15	4846862	1	Bar, Pothole Support (Left)	
15	0440263	4	Bushing	
16	3290405	4	Locknut M4	
17	1001109232	1	Plate, Attach (Right)	
18	1001109233	1	Plate, Attach (Left)	
19	0700614	4	Screw M6 x 30mm	
20	3290605	4	Locknut M6	
21	4811700	4	Flatwasher M6	
22		Ref	Switch, Limit Options:	
22	1001109088	2	Switch, Limit All Specs except UL Spec	
22	1001126905	2	Switch, Limit UL Spec	

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FIGURE 1-6. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER)



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FIGURE 1-6. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER)

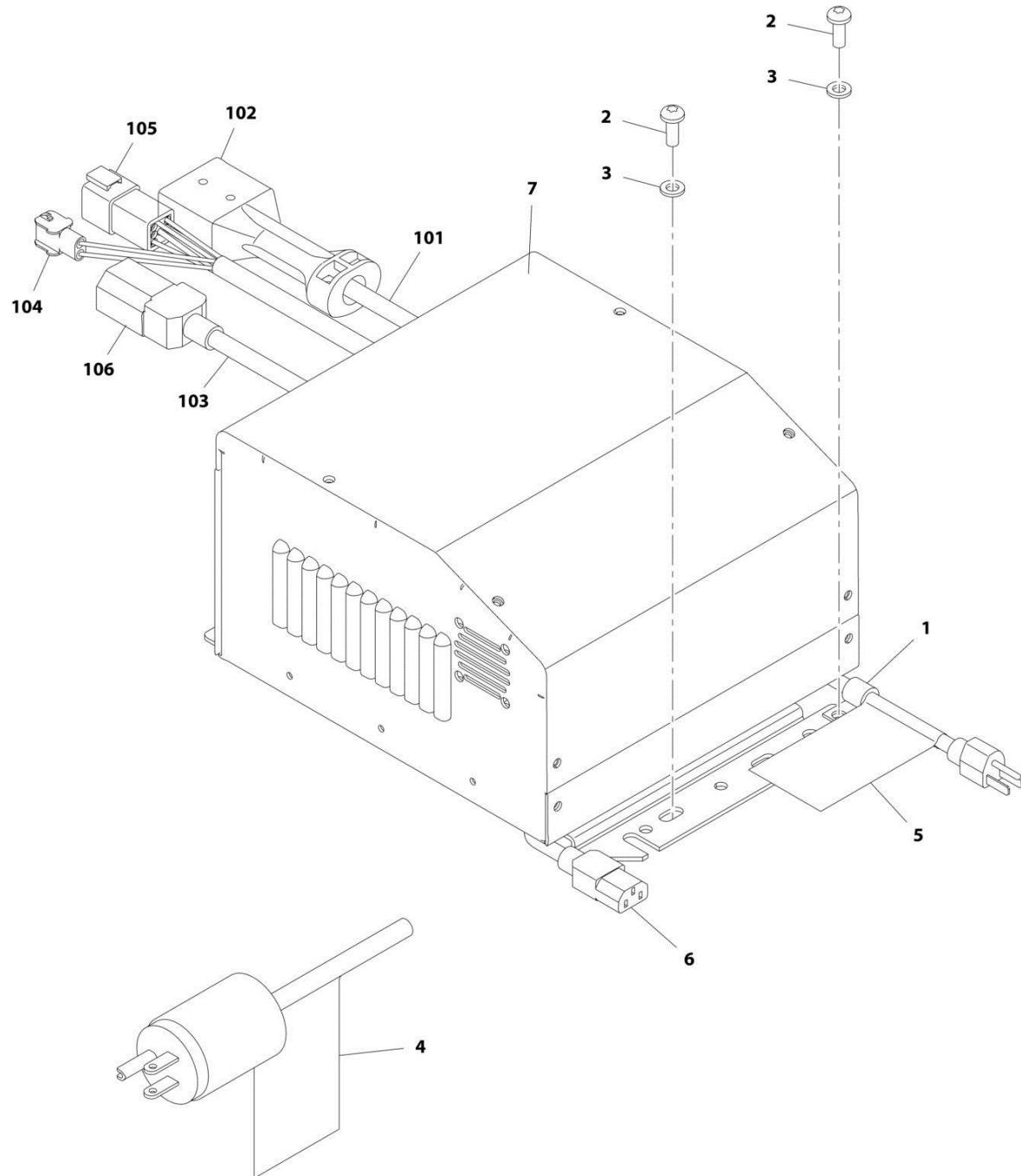
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112111	Ref	BATTERY CHARGER ASSEMBLY	
1	Not Available	1	Harness with Plug	
1	4460648	1	Plug, Anderson Battery Cable	
2	Not Available	1	Harness with Connector	
2	4460424	1	Connector, Female - 2 Position	
2	4460227	2	Pin, Male	
3	Not Available	1	Harness with Connector	
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	
		Ref	BATTERY CHARGER INSTALLATION	
		Ref	Battery Charger Installation 1930ES:	
	0275079	Ref	AC Cable Has Factory Supplied Plug	F
	0275088	Ref	AC Cable Has Locally Supplied Plug	F
	1001113574	Ref	AC Cable Has Locally Supplied Plug (Australian Spec Only)	D
	1001172007	Ref	AC Cable Has Chinese Plug (Chinese Spec)	C
		Ref	Battery Charger Installation 2030ES/2630ES/2630ES/2646ES/3246ES:	
	0272874	Ref	AC Cable Has Factory Supplied Plug	L
	0272875	Ref	AC Cable Has Locally Supplied Plug	L
	1001113576	Ref	AC Cable Has Locally Supplied Plug (Australian Spec Only)	D
	1001172008	Ref	AC Cable Has Chinese Plug (Chinese Spec)	C
101	1001112111	1	Battery Charger Assembly (See Items 1-7 for Breakdown)	
102		Ref	Cable, AC Options:	
102	1060688	1	Cable, AC Factory Supplied Plug (Black)	
102	1001103257	1	Cable, AC Factory Supplied Plug (Orange)	
102	1060689	1	Cable, AC Locally Supplied Plug (Black)	
102	1001103258	1	Cable, AC Locally Supplied Plug (Orange)	
102	1001172010	1	Cable, AC Chinese Plug (Chinese Spec)	
103		Ref	Clamp Options:	
103	1320136	1	Clamp Insulated Clamp	
103	1321293	1	Clamp Non-Insulated Clamp	
104		Ref	Screw M6 Options:	
104	4191706	2	Screw 12mm Length	
104	4191707	2	Screw 16mm Length	
105	4811700	2	Flatwasher M6	
106	1001102258	1	Decal - AC Label (Australian Spec Only)	
107	1001102489	1	Decal - Charger Label (Australian Spec Only)	
201		Ref	PLUG OPTIONS:	
201	Not Available	Ref	ANSI Spec Plug (Use Item 102 p/n 1060688)	
201	Not Available	Ref	Australian and Japanese Specs (Purchase Locally)	
201		Ref	CE Spec Options:	
201	0275666	Ref	IEC Yellow Receptacle Installation	A
201	4461196	Ref	Receptacle, IEC Yellow	
201	0275667	Ref	IEC Blue Receptacle Installation	A
201	4461199	Ref	Receptacle, IEC Blue	
201	0275665	Ref	AFSINT 107 Keyed Ground Receptacle Installation	A

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	4461249	Ref	Receptacle, AFSINT 107 Keyed Ground	
201	0275663	Ref	CEE7 Post Ground Receptacle Installation	A
201	4461202	Ref	Receptacle, CEE7 Post Ground	
201	0275664	Ref	CEE7 Side Ground Receptacle Installation	A
201	4461205	Ref	Receptacle, CEE7 Side Ground	
301	1600466	NLA	BATTERY CHARGER REPROGRAM CONTROLLER KIT (Use p/n 2915230)	

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FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (EAGLE PERFORMANCE)



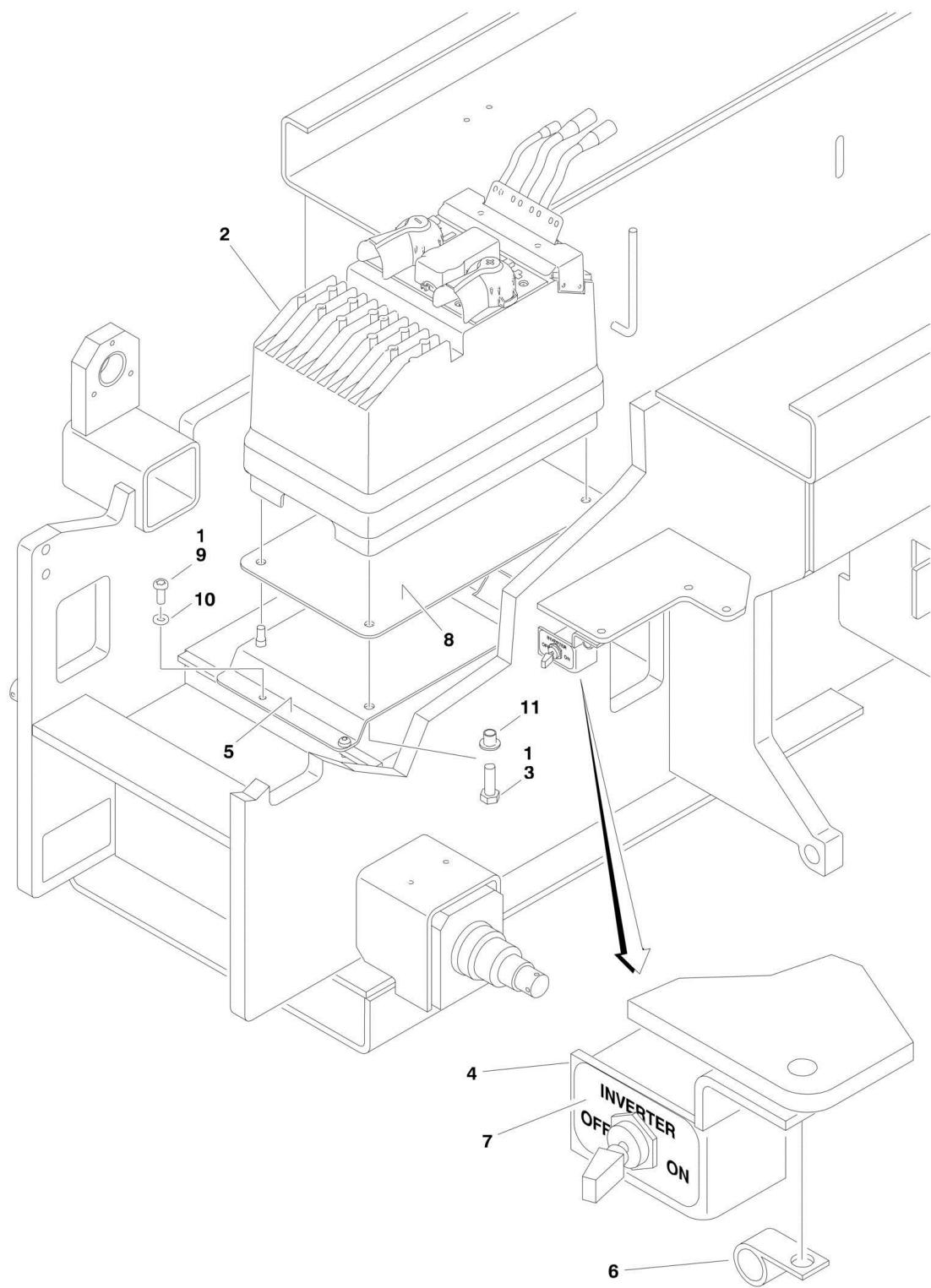
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FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (EAGLE PERFORMANCE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BATTERY CHARGER ASSEMBLY AND INSTALLATION (EAGLE PERFORMANCE)	
		Ref	Battery Charger Installation	
	1001179427	Ref	Battery Charger Installation with Factory Plug (1930ES)	A
	1001183013	Ref	Battery Charger Installation with Locally Supplied Plug (1930ES)	A
	1001179428	Ref	Battery Charger Installation with Factory Plug (2030ES/2630ES/2646ES/3246ES)	A
	1001183012	Ref	Battery Charger Installation with Locally Supplied Plug (2030ES/2630ES/2646ES/3246ES)	A
1	1321293	1	Clamp (Charger with Factory Supplied Plug)	
1	1320136	1	Clamp (Charger with Locally Supplied Plug)	
2	4191707	2	Screw M6 x 16	
2	4191706	2	Screw M6 x 12	
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 Items 101-106 for Breakdown)	
	1001177842	Ref	BATTERY CHARGER ASSEMBLY - EAGLE PERFORMANCE	A
101	Not Available	1	Harness with Plug	
102	Not Available	1	Plug, Battery Cable	
103	Not Available	1	Harness	
104	4460424	1	Connector, Female - 2 Position	
104	4460227	2	Pin, Male	
105	4460899	1	Connector, Female - 6 Position	
105	4460464	6	Pin, Male	
106	Not Available	1	Harness with Connector	

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FIGURE 1-8. BATTERY CHARGER WITH INVERTER ASSEMBLY AND INSTALLATION (OPTIONAL ON ANSI AND CSA SPEC MACHINES)



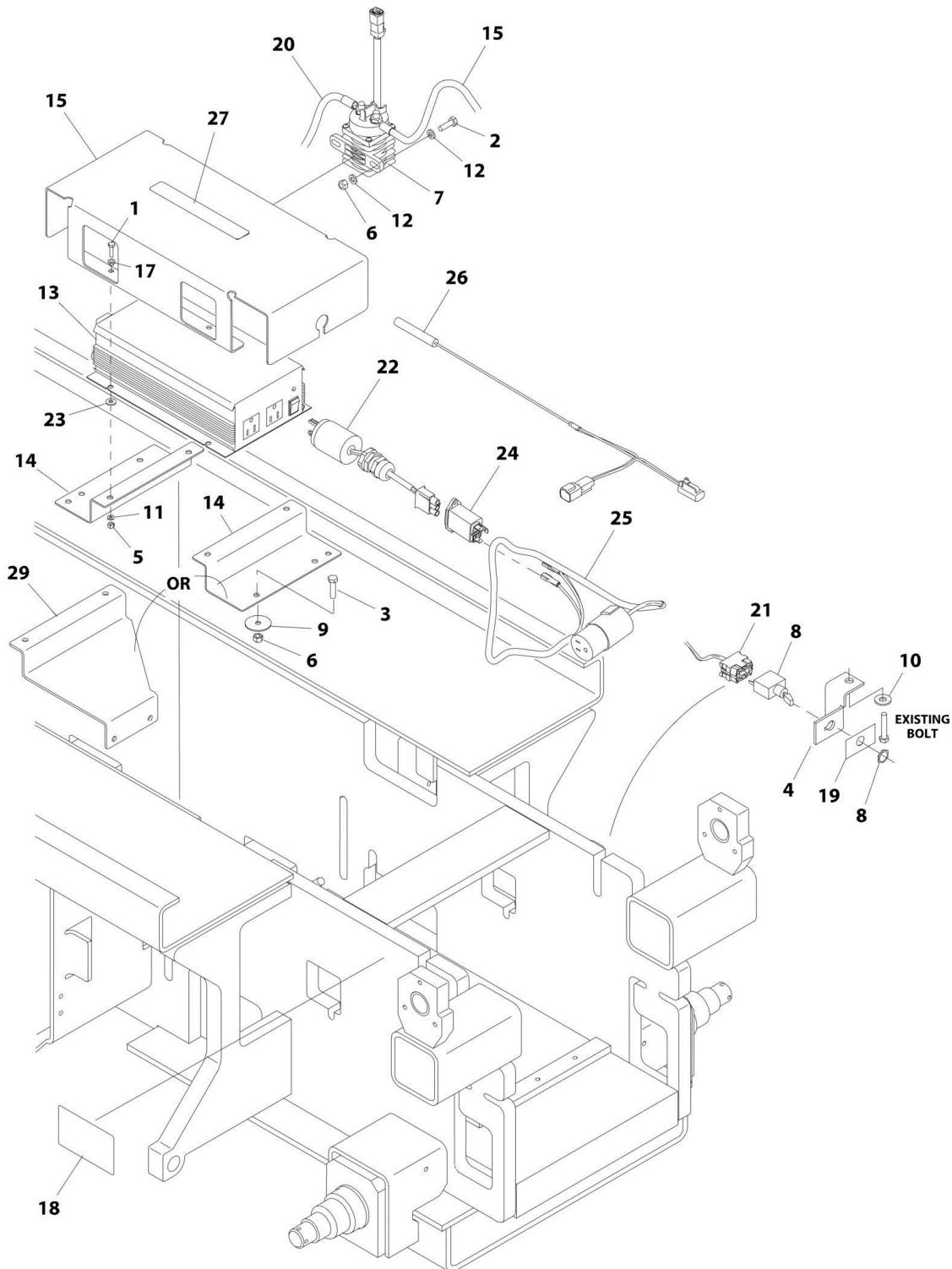
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FIGURE 1-8. BATTERY CHARGER WITH INVERTER ASSEMBLY AND INSTALLATION (OPTIONAL ON ANSI AND CSA SPEC MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			BATTERY CHARGER ASSEMBLY	
	0275103	Ref	Battery Charger Assembly 1930ES	G
	0275104	Ref	Battery Charger Assembly 2030ES/2630ES	F
	0275105	Ref	Battery Charger Assembly 2646ES/3246ES	F
1	0100011	AR	Compound, Locking	
2	1001093839	1	Charger/Inverter Assembly	
3		Ref	Hardware Options:	
3	0760812	4	Bolt M8 x 25mm	
3	0760814	4	Bolt M8 x 30mm	
3	3290805	4	Nut M8	
4	0902780	1	Bracket, Mounting (Remote Switch)	
5		Ref	Bracket, Mounting (Charger/Inverter)	
5	0903444	1	Bracket, Mounting (Charger/Inverter) 1930ES	
5	0903319	1	Bracket, Mounting (Charger/Inverter) 2030ES/2630ES/2646ES/3246ES	
6	1320043	1	Clamp	
7	1705052	1	Decal - On/Off	
8	2820239	1	Insulation, Charger Mounting	
9		Ref	Screw M6 Options:	
9	4191706	AR	Screw 12mm Length	
9	4191707	AR	Screw 16mm Length	
10	4811700	2	Flatwasher M6	
11	4740562	4	Washer, Special	
18	1706749	1	Decal - Inverter (Not Shown - Located on Frame Near Inverter)	
19		Ref	Decal - Hazardous Voltage Options (Not Shown - Located on Platform Near AC Box):	
19	1706765	1	Decal English Language	
19	1001136847	1	Decal Spanish Language	

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FIGURE 1-9. INVERTER INSTALLATION (WITHOUT BATTERY CHARGER) (OPTIONAL ON ANSI SPEC MACHINES)



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FIGURE 1-9. INVERTER INSTALLATION (WITHOUT BATTERY CHARGER) (OPTIONAL ON ANSI SPEC MACHINES)

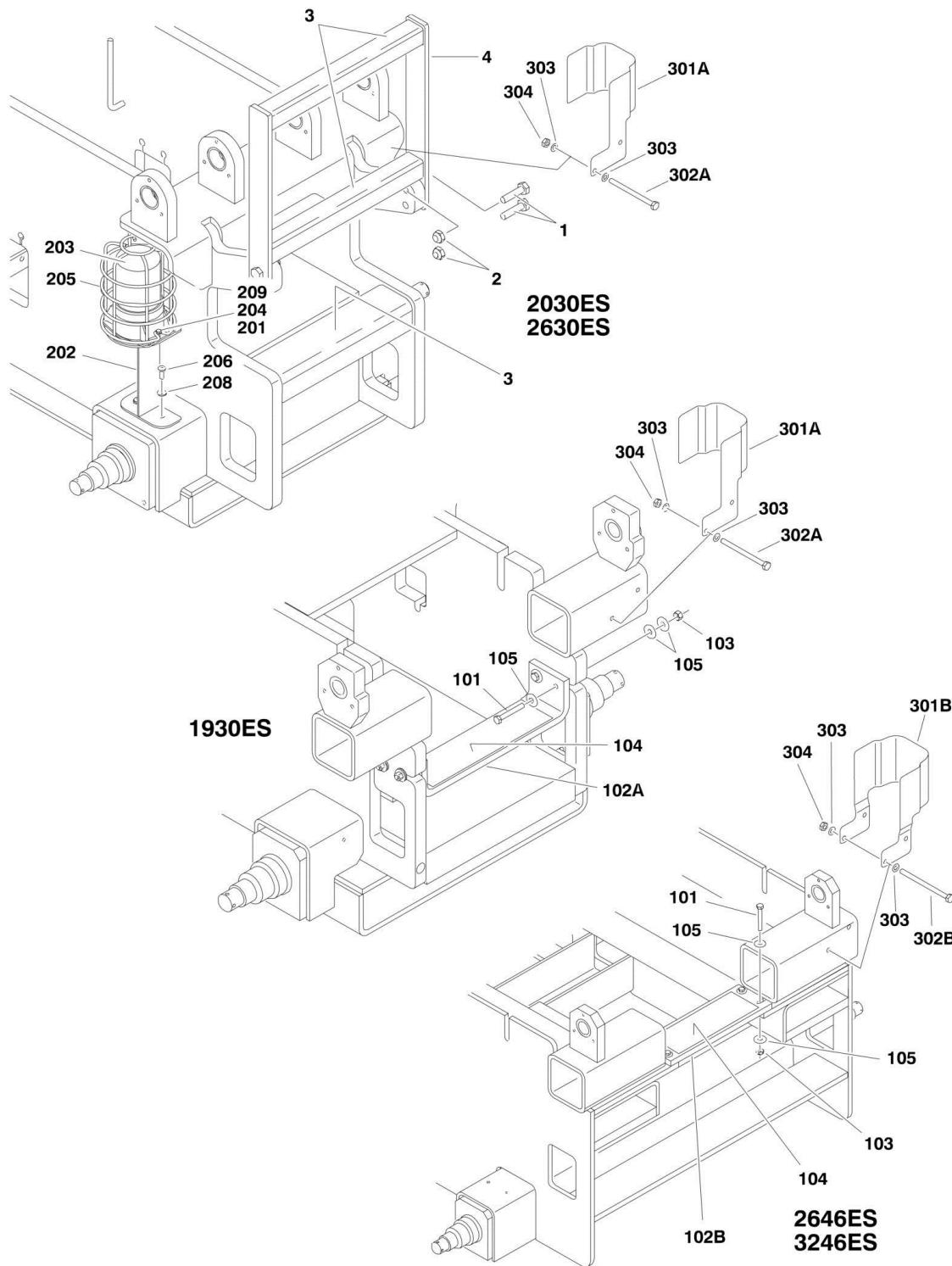
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			BATTERY CHARGER ASSEMBLY	
	1001154515	Ref	Battery Charger Assembly 1930ES	A
	1001154516	Ref	Battery Charger Assembly 2030ES	A
	1001154518	Ref	Battery Charger Assembly 2646ES/3246ES	A
1	0760408	4	Bolt M4 x 16mm	
2	0760610	2	Bolt M6 x 20mm	
3		Ref	Bolt Options:	
3	0760612	4	Bolt M6 x 25mm	
3	0700510	4	Bolt M5 x 20mm	
4	0902780	1	Bracket	
5		Ref	Locknut M4	
5	3290405	4	Locknut M4	
5	3290505	4	Locknut M5	
6		Ref	Locknut Options:	
6	3290605	AR	Locknut M6	
6	3290505	AR	Locknut M5	
7	3740150	1	Relay	
8	4360336	1	Switch, Toggle	
9		Ref	Washer Options:	
9	4740362	4	Washer, Fender 1930ES/2030ES	
9	4811600	8	Washer 5mm 2646ES/3246ES	
10	4751500	1	Flatwasher	
11	4811400	4	Flatwasher 4mm	
12	4811700	4	Flatwasher 6mm	
13	1001136757	1	Inverter Assembly	
14		Ref	Bracket Options:	
14	1001138008	2	Bracket 1930ES	
14	1001154752	2	Bracket 2030ES	
14	1001138008	1	Bracket 2646ES/3246ES	
15	1001138967	1	Cable (Battery Positive to Relay)	
16	1001139009	1	Shield	
17	1001142174	4	Washer, Special	
18	1001143009	1	Decal - Inverter	
19	1001143010	1	Decal - ON/OFF Inverter	
20	1001145762	1	Cable (Inverter to Positive Side of Relay)	
21	1001145763	1	Harness, Inverter	
21	4460418	1	Receptacle, Female - 3 Position	
21	4460419	2	Terminal	
21	4460464	2	Pin, Male	
21	4460465	1	Socket, Female	
22	1001145881	1	Harness, AC Extension	
22	1001157513	1	Connector - 3 Position	
22	1001157790	3	Socket, Female	
22	4460138	1	Plug, Male	
22	4460968	1	Strain Relief	
23	4740120	4	Washer	
24	1001157547	1	AC Filter	
25	1001157645	1	Harness, AC Extension	
25	4460779	1	Receptacle, Female	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
26	1001158712	1	Harness, Inverter Switch/Relay	
26	4460891	1	Plug, Male - 2 Position	
26	4460465	2	Socket, Female	
26	4460897	1	Receptacle, Female - 2 Position	
26	4460464	2	Pin, Male	
26	1001116956	1	Connector	
26	4460464	1	Pin, Male	
27	1704905	1	Decal - No Pressure Wash	
28	4240017	12	Tie, Strap	
29	1001155292	1	Bracket 2646ES/3246ES	

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FIGURE 1-10. LADDERS, BEACON LIGHT AND ROTARY SENSOR COVER INSTALLATION



SECTION 1 - FRAME

FIGURE 1-10. LADDERS, BEACON LIGHT AND ROTARY SENSOR COVER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			LADDER INSTALLATIONS	
	0272887	Ref	Ladder Installations 2030ES	B
	0272888	Ref	Ladder Installations 2630ES	B
1	0701016	4	Bolt M10 x 40mm	
2	3291005	4	Locknut M10	
3	4420070	3	Tape, Anti-Skid	
4		Ref	Ladder Options:	
4	4846812	1	Ladder 2030ES	
4	4846813	1	Ladder 2630ES	
			LADDER INSTALLATIONS	
	0275120	Ref	Ladder Installations 1930ES	C
	0275212	Ref	Ladder Installations 2646ES/3246ES	C
101		Ref	Bolt M6 Options:	
101	0700615	4	35mm Length	
101	0700617	4	45mm Length	
102		Ref	Ladder Options:	
102A	2930005	1	Ladder 1930ES	
102B	3576349	1	Ladder 2646ES/3246ES	
103		Ref	Locknut Options:	
103	3290605	4	Locknut 1930ES	
103	3290607	4	Locknut 2646ES/3246ES	
104	4420080	1	Tape, Anti-Skid	
105	4751400	AR	Flatwasher 1/4in Wide	
		Ref	BEACON LIGHT INSTALLATIONS	
		Ref	Note: See SPECIAL OPTIONS SECTION for Machines with 2 Beacon Lights	
	0272309	Ref	Beacon Light Installations 1930ES (Not Shown)	E
	0274012	Ref	Beacon Light Installations 2030ES/2630ES	B
	0272980	Ref	Beacon Light Installations 2646ES/3246ES	E
201	0760410	2	Bolt M4 x 20mm	
202		Ref	Bracket Options:	
202	0902905	1	Bracket 1930ES	
202	0903086	1	Bracket 2030ES/2630ES	
202	0902906	1	Bracket 2646ES/3246ES	
203	2920161	1	Light, Beacon	
203	7016319	1	Bulb, Replacement	
203	7016372	1	Len, Replacement	
204	3290405	2	Locknut M4	
205	4060865	1	Guard	
206	4191707	2	Screw M6 x 16mm	
208	4811700	AR	Flatwasher M6	
209	4750800	2	Flatwasher #8 (Wide)	
		Ref	ROTARY ANGLE SENSOR COVER KIT	
		Ref	Note: This kit is an optional aftermarket Add-on for USA Built Machines SN 0200198014 through SN 0200239381 (1930ES/2646ES/3246ES) SN 0200198014 to Present (2030ES/2630ES) Only. Not Available on previous SNs due to changes in frame design. Kit also includes instructions. Parts listed below are for service.	
	1001105108	Ref	Rotary Angle Sensor Cover Kit 1930ES/2030ES/2630ES	
	1001105109	Ref	Rotary Angle Sensor Cover Kit 2630ES/3246ES	

SECTION 1 - FRAME

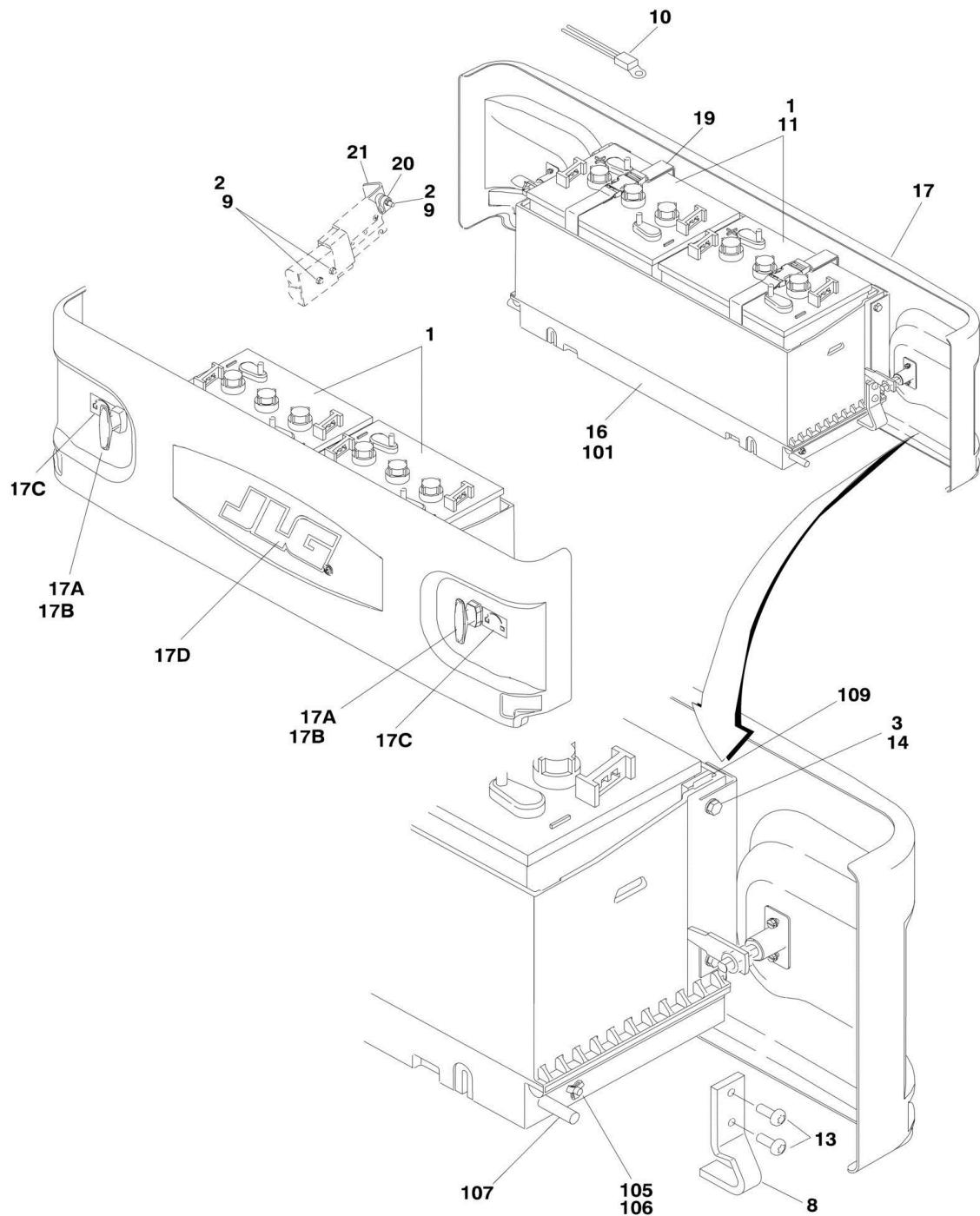
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301		Ref	Cover Options:	
301A	1001103029	1	Cover for 1930ES/2030ES/2630ES	
301B	1001103030	1	Cover for 2646ES/3246ES	
302		Ref	Bolt M6 Options:	
302A	0760610	2	Bolt 20mm Length for 1930ES/2030ES/2630ES	
302B	0760612	2	Bolt 25mm Length for 2646ES/3246ES	
303	4811700	4	Flatwasher 6mm	
304	3290605	2	Locknut M6	

SECTION 2 - GROUND COMPONENTS

SECTION 2 - GROUND COMPONENTS

SECTION 2 - GROUND COMPONENTS

FIGURE 2-1. BATTERIES AND COVERS INSTALLATION



SECTION 2 - GROUND COMPONENTS

FIGURE 2-1. BATTERIES AND COVERS INSTALLATION

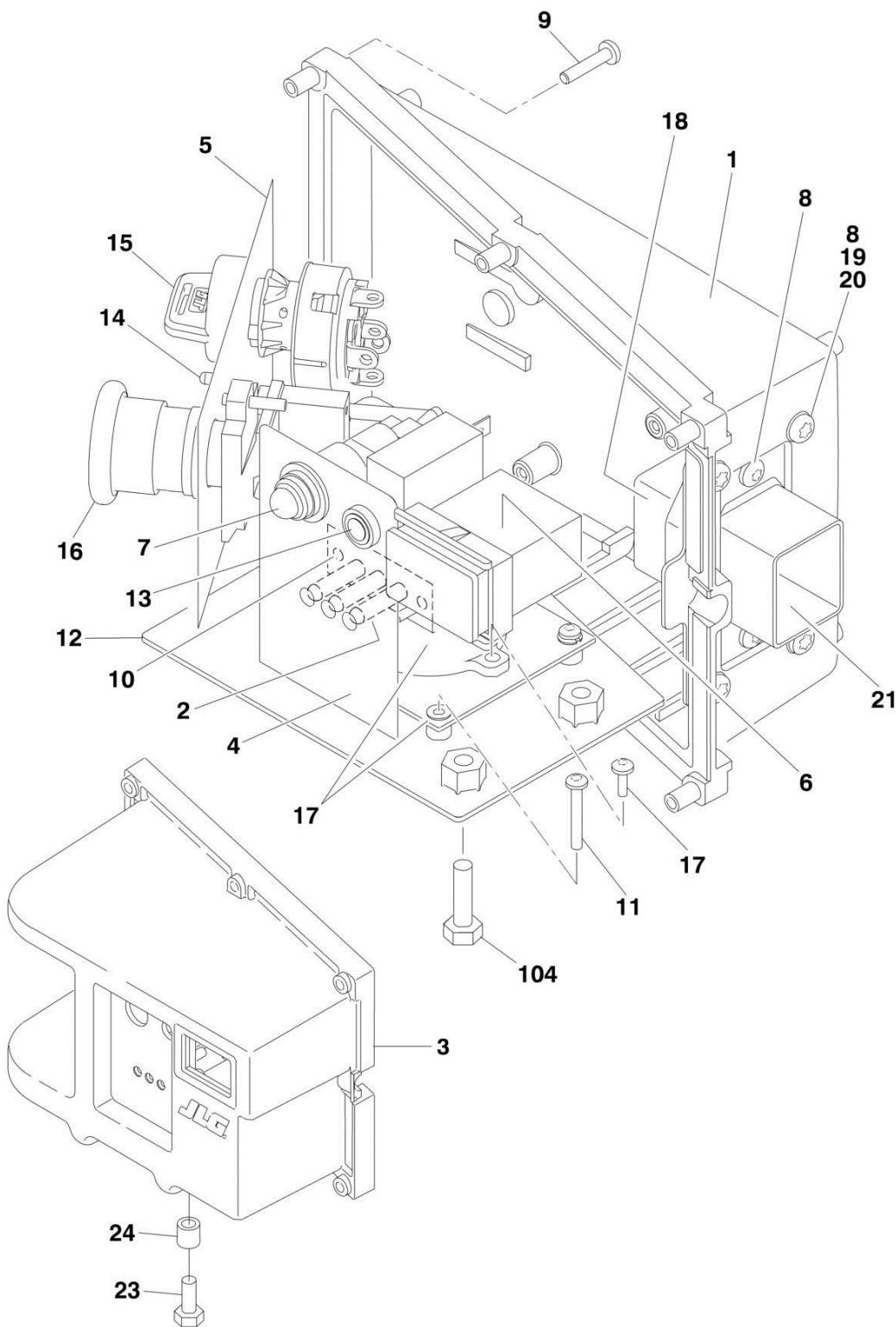
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BATTERIES AND COVERS INSTALLATION	
	0275020	Ref	GC Type with 225 AH Rating Batteries:	E
	0275022	Ref	All Models (Standard Covers)	E
	0275480	Ref	All Models (Locking Covers)	F
	0275021	Ref	GC Type with 225 AH Rating Batteries 1930ES (UL Spec with Locking Covers)	E
		Ref	GC Type with 225 AH Rating Batteries 2030ES/2630ES/2646ES/3246ES (UL Spec with Locking Covers)	
	0275042	Ref	EV Type with 244 AH Rating Batteries:	D
	0275044	Ref	EV Type with 244 AH Rating Batteries 2030ES/2630ES/2646ES/3246ES with Standard Covers	D
	0275043	Ref	EV Type with 244 AH Rating Batteries 2030ES/2630ES/2646ES/3246ES with Locking Covers	D
		Ref	EV Type with 244 AH Rating Batteries 2030ES/2630ES/2646ES/3246ES (UL Spec with Locking Covers)	
	0275401	Ref	AGM and EVG Type with 225 AH Rating Batteries:	D
	1001132233	Ref	All Models (Standard Covers)	B
	1001159192	Ref	All Models (Locking Covers)	B
		Ref	All Models (Locking Covers) (UL Spec)	
1		Ref	Battery Options:	
1	0400216	4	Battery Type EV-145-WNL (Not Available on 1930ES)	
1	1001112112	4	Battery Type EVGC6A-A	
1	0400215	4	Battery Type GC-110-WNL	
2		Ref	Bolt Options:	
2	0700615	AR	Bolt M6 x 35mm	
2	0700616	AR	Bolt M6 x 40mm	
2	4031713	AR	Bolt, Sockethead M6 x 40mm	
3	0760610	8	Bolt M6 x 20mm	
8		Ref	Plate, Slide Stop Options:	
8	3574981	2	Plate, Slide Stop Left Side	
8	3574984	2	Plate, Slide Stop Right Side	
9	3290605	AR	Locknut M6	
10	1001112113	NLA	Temperature Sensor Kit (Includes Sensor, Wire Nut and Instructions) (Use p/n 1001127269)	
11	0100051	AR	Grease, Terminal	
13	4191707	8	Screw M6 x 16mm	
14	4811700	8	Flatwasher M6	
16		Ref	Tray Assembly Options (See Items 101-106 for Breakdown):	
16	0273698	2	Tray Non-UL	
16	0861678	2	Tray UL Spec	
17		Ref	Cover Options:	
17	1671202	2	Cover with Decals and Standard Latches	H
17	1671204	2	Cover with Decals and Lockable Latches	I
17	1671204	2	Cover, UL Spec with Decals and Lockable Latches	I
17	1671203	1	Cover, Battery Less Decals and Latches (Note: Must Purchase Decals and Latches Separately)	E
17A		Ref	Latch Options (2 Per Cover):	
17A	2940174	4	Standard	
17A	2940175	4	Locking	
17A	7027863	4	Key	

SECTION 2 - GROUND COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17B	4071102	NLA	Flatwasher #8 (2 Per Cover) (Use p/n 4750800 Shim)	
17C	1706350	2	Decal - Cover	
17D	1705754	1	Decal - JLG	
19	4240172	4	Strap, Battery (UL Spec)	
20	1321130	1	Clamp (UL Spec) (1930ES Only)	
21	Not Available	1	Handle, Disconnect (UL Spec) (1930ES Only)	
21	1001110826	1	Bracket, Disconnect Mounting (UL Spec) (1930ES Only)	
		Ref	TRAY ASSEMBLY OPTIONS:	
	0273698	Ref	Non-UL Spec	H
	0861678	Ref	UL Spec	D
101	Purchase Item 16	1	Tray, Battery	
105	3820032	AR	Rivet	
106	4811600	AR	Washer	
107		Ref	Stop, Battery Box Options:	
		Ref	NOTE: Requires (2) 3820032 Rivet and (1) 4811600 Washer	
107	4220252	1	Stop, Battery Box LH	
107	4220253	1	Stop, Battery Box RH	
109	3577076	2	Bar	

SECTION 2 - GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY AND INSTALLATION



SECTION 2 - GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY AND INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001114929	Ref	GROUND CONTROL ASSEMBLY	
	1001114929	Ref	Ground Control Box Assembly - ANSI, ANSI Export and UL Specs (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001166194	Ref	Ground Control Box Assembly - ANSI, ANSI Export and UL Specs (SN 0200238466 through 0200239381)	F
	1001114932	Ref	Ground Control Box Assembly - ANSI Export and Japanese Specs (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001114931	Ref	Ground Control Box Assembly - Australian Specs without Overload (SN 0200198014 through 0200238465, SN B200000100 through B20002113)	B
	1001114932	Ref	Ground Control Box Assembly - Australian Specs without Overload 1930ES/2646ES/3246ES (SN 0200203604 through 0200239381, SN B200002114 through B200020296)	B
	1001114932	Ref	Ground Control Box Assembly - Australian Specs without Overload 2030ES/2630ES (SN 0200203604 through 0200238465, SN B200002114 through B200020296)	B
	1001114930	Ref	Ground Control Box Assembly - Australian and CE Specs with Overload (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001166197	Ref	Ground Control Box Assembly - Australian and Japanese Spec (SN 0200238466 through 0200239381)	D
	1001166195	Ref	Ground Control Box Assembly - CE Spec (SN 0200238466 through 0200239381)	E
1	0380025	1	Box, Ground Control	
2	0610161	1	Board, PC (Battery Charger LED)	
3	1671105	1	Cover, Front	
4		Ref	Decal - LED Options:	
4	1705696	1	Decal - LED ANSI, ANSI Export and UL Specs	
4	1705697	1	Decal - LED ANSI Export, CE and Japanese Specs	
4	1705696	1	Decal - LED Australian Specs without Overload (USA Built Machines) (SN 0200198014 through 0200203603)	
4	1705696	1	Decal - LED Australian Specs without Overload (China Built Machines) (SN B200000100 through B20002113)	
4	1705697	1	Decal - LED Australian Specs without Overload (USA Built Machines) 1930ES/2646ES/3246ES (SN 0200203604 through 0200239381)	
4	1705697	1	Decal - LED Australian Specs without Overload (USA Built Machines) 2030ES/2630ES (SN 0200203604 to Present)	
4	1705697	1	Decal - LED Australian Specs without Overload (China Built Machines) 1930ES/2646ES/3246ES (SN B200002114 through B200020296)	
4	1705697	1	Decal - LED Australian Specs without Overload (China Built Machines) 2030ES/2630ES (SN B200002114 to Present)	
4	1705697	1	Decal - LED Australian Spec with Overload	
5	1705698	1	Decal - Function	
6	2420172	1	Hourmeter	
7		Ref	Component Options:	
7	3520193	1	Plug	
7	2920026	1	Lamp	
7	2920094	AR	Bulb (Optional)	
8	3900336	6	Screw, Torx #10-32NF x 1/2in	
9	3900338	6	Screw, Torx M4 x 20mm	
10	3900339	2	Screw, Plastite #6 x 1/2in	

SECTION 2 - GROUND COMPONENTS

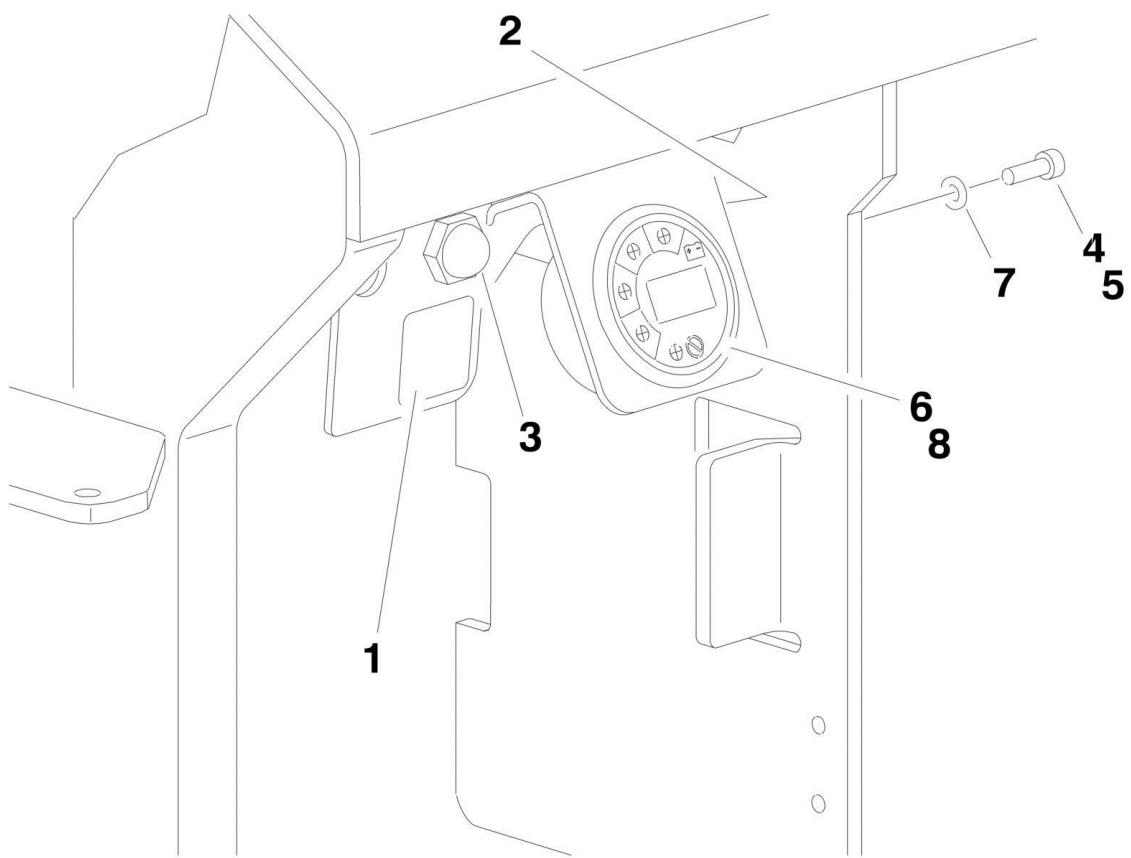
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
11	3900356	4	Screw, Torx M3.5 x 16mm	
11	1001180090	4	Screw, Torx M3.5 x 20mm	
12	4340739	1	Plate, Mounting (SN 0200198014 through 0200238465)	
12	1001163315	1	Plate, Mounting (SN 0200238466 through 0200239381)	
12	4340739	1	Plate, Mounting (SN B200000100 through B200020296)	
13	4360069	1	Breaker, Circuit - 10 Amp	
14	4360328	1	Switch, Toggle	
15		Ref	Keypad Options:	
15	4360469	1	Keypad ANSI, ANSI Export, Japanese and UL Specs	
15	4360470	1	Keypad Australian Specs without Overload (USA Built Machines) (SN 0200198014 through 0200203603)	
15	4360470	1	Keypad Australian Specs without Overload (China Built Machines) (SN B200000100 through B20002113)	
15	4360469	1	Keypad Australian Specs without Overload (USA Built Machines) 1930ES/2646ES/3246ES (SN 0200203604 through 0200239381)	
15	4360469	1	Keypad Australian Specs without Overload (USA Built Machines) 2030ES/2630ES (SN 0200203604 to Present)	
15	4360469	1	Keypad Australian Specs without Overload (China Built Machines) 1930ES/2646ES/3246ES (SN B200002114 through B200020296)	
15	4360469	1	Keypad Australian Specs without Overload (China Built Machines) 2030ES/2630ES (SN B200002114 to Present)	
15	4360470	1	Keypad CE Spec	
15	2860030	1	Keypad Key, Replacement (Fits All Specs)	
16	4360475	1	Switch, Emergency Stop	
16	7020175	1	Cap	
16	7020176	1	Block, Contact	
17	1001114933	1	Module, Tilt (SN 0200198014 through 0200238465)	
17	1001166255	1	Module, Tilt (SN 0200238466 through 0200239381)	
17	1001114933	1	Module, Tilt (SN B200000100 through B200020296)	
18	1001114937	1	Mount, Harness Bulkhead (Ground Control)	
19	3321005	4	Locknut #10-32NF	
20	4751000	4	Flatwasher #10 Wide	
21	1001114935	1	Harness, Control Box (See ELECTRICAL SECTION for Breakdown) (SN 0200198014 through 0200238465)	
21	1001167256	1	Harness Control Box (See ELECTRICAL SECTION for Breakdown) (SN 0200238466 through 0200239381)	
21	1001114935	1	Harness Control Box (See ELECTRICAL SECTION for Breakdown) (SN B200000100 through B200020296)	
23	1001165284	1	Fastener	
24	1001165286	1	Spacer	
		Ref	GROUND CONTROL BOX INSTALLATION	
	1001114885	Ref	Ground Control Box Installation - ANSI, ANSI Export and UL Specs (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001166823	Ref	Ground Control Box Installation - ANSI, ANSI Export and UL Specs (SN 0200238466 through 0200239381)	C
	1001114886	Ref	Ground Control Box Installation - ANSI Export and Japanese Specs (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001114924	Ref	Ground Control Box Installation - Australian Specs without Overload (SN 0200198014 through 0200203604, SN B200000100 through B20002113)	A
	1001114886	Ref	Ground Control Box Installation - Australian Specs without	B

SECTION 2 - GROUND COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	1001114886	Ref	Overload 1930ES/2646ES/3246ES (SN 0200203604 through 0200239381, SN B200002114 through B200020296) Ground Control Box Installation - Australian Specs without Overload 2030ES/2630ES (SN 0200203604 through 0200238465, SN B200002114 through B200020296)	B
	1001114925	Ref	Ground Control Box Installation - Australian and CE Specs with Overload (SN 0200198014 through 0200238465, SN B200000100 through B200020296)	B
	1001166828	Ref	Ground Control Box Installation - Australian and Japanese Spec (SN 0200238466 through 0200239381)	B
	1001166825	Ref	Ground Control Box Installation - CE Spec (SN 0200238466 through 0200239381)	B
	0700615	3	Bolt M6 x 35	
	0272878	Ref	ANTI-VANDALISM PACKAGE INSTALLATION (NOT SHOWN)	
	1671124	1	Cover, Lockable Ground Control Box	E

SECTION 2 - GROUND COMPONENTS

FIGURE 2-3. BRAKE DISCONNECT/RELEASE AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATIONS



SECTION 2 - GROUND COMPONENTS

FIGURE 2-3. BRAKE DISCONNECT/RELEASE AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATIONS

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

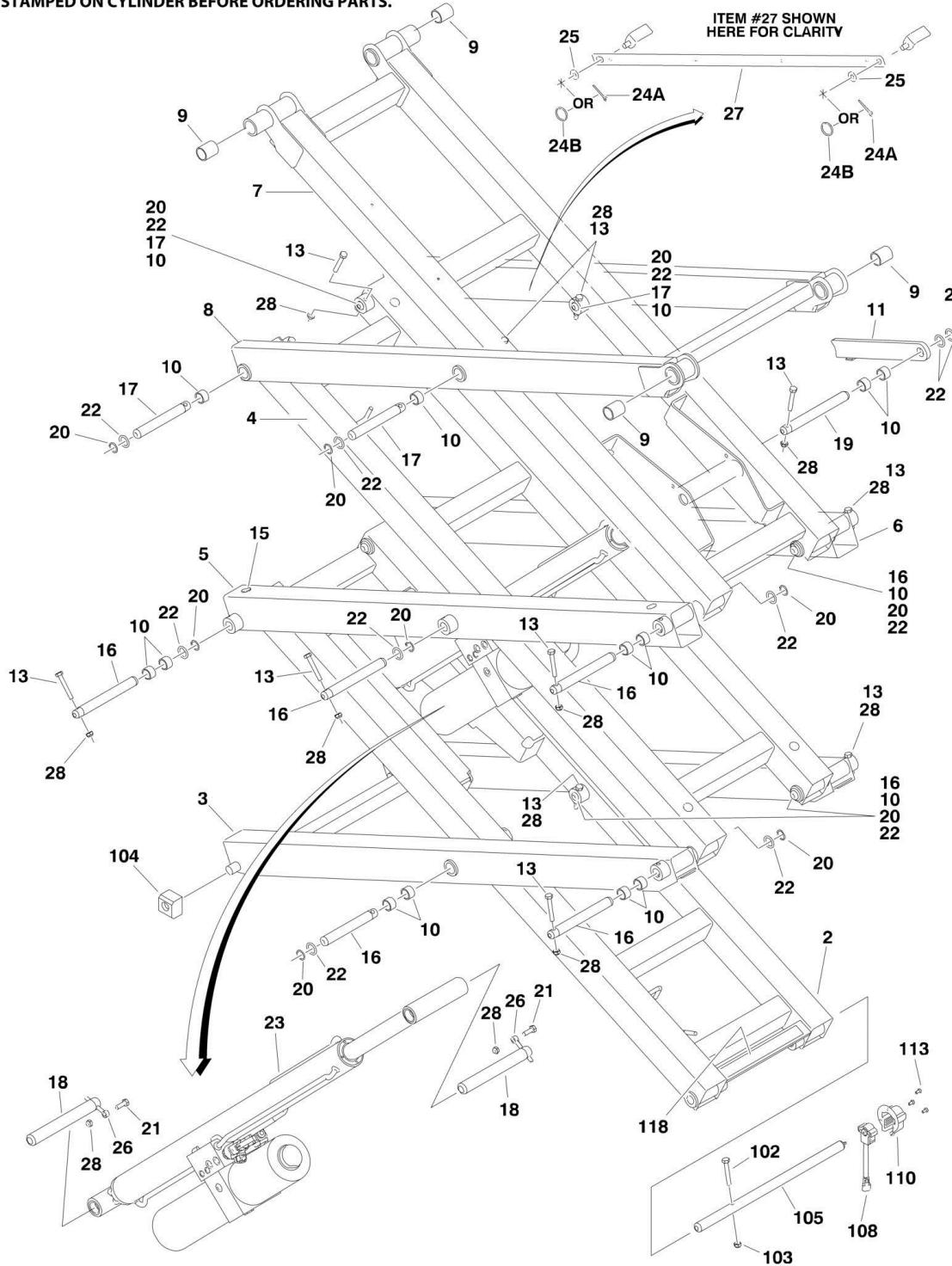
SECTION 3 - SCISSOR ARMS

SECTION 3 - SCISSOR ARMS

SECTION 3 - SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES

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



SECTION 3 - SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SCISSOR ARMS ASSEMBLY - 1930ES	
	0274841	Ref	Machines with Standard Hydraulic Oil:	O
	1001131019	Ref	Scissors Arms Assembly with Lift Cylinder Stamped 1684484	D
	1001157315	Ref	Scissors Arms Assembly with Lift Cylinder Stamped 1001129288	A
	0200838	Ref	Scissors Arms Assembly with Lift Cylinder Stamped 1001155840	K
	1001131027	Ref	Machines with Biodegradeable Hydraulic Oil:	D
	1001157334	Ref	Scissors Arms Assembly with Lift Cylinder Stamped 1684526	A
2	0200825	1	Scissors Arms Assembly with Lift Cylinder Stamped 1001131033	
3	0200810	1	Scissors Arms Assembly with Lift Cylinder Stamped 1001157329	
4	0200824	1	Arm - Lower Inboard	
5	0200823	1	Arm - Lower Outboard	
6	0200822	1	Arm - Mid Inboard	
7	0200821	1	Arm - Mid Outboard (Left Side)	
8	0200815	1	Arm - Mid Outboard (Right Side)	
9	0440266	4	Arm - Upper Inboard	
10	0440264	1	Arm - Upper Outboard	
11	3574159	1	Bearing	
13	0701022	14	Bearing	
15	3340962	16	Prop, Safety	
16	3423031	9	Bolt M10 x 70mm	
17	3423032	4	Pad	
18	3423038	2	Pin	
19	3423042	1	Pin	
20	3760115	14	Pin	
21	0761014	2	Ring, Retaining	
22	4740531	15	Bolt M10 x 30mm	
23		Ref	Washer, Special	
23		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
23	1684484	1	Machines with Standard Hydraulic Oil:	
23	1001129288	1	Lift Cylinder Assembly Stamped 1684484	
23	1001155840	1	Lift Cylinder Assembly Stamped 1001129288	
23		Ref	Lift Cylinder Assembly Stamped 1001155840	
23	1684526	1	Machines with Biodegradeable Hydraulic Oil:	
23	1001131033	1	Lift Cylinder Assembly Stamped 1684526	
23	1001157329	1	Lift Cylinder Assembly Stamped 1001131033	
24		Ref	Lift Cylinder Assembly Stamped 1001157329	
24A	3450303	2	Hardware Options:	
24B	3760170	2	Pin, Cotter 3/3in x 3/4in	
25	4812000	2	Ring, Split	
26	3841143	2	Flatwasher M10	
27	3576093	1	Keeper, Pin	
28	3291005	NLA	Bar, Cable Carrier	
			Locknut M10 (Use p/n 3291007)	

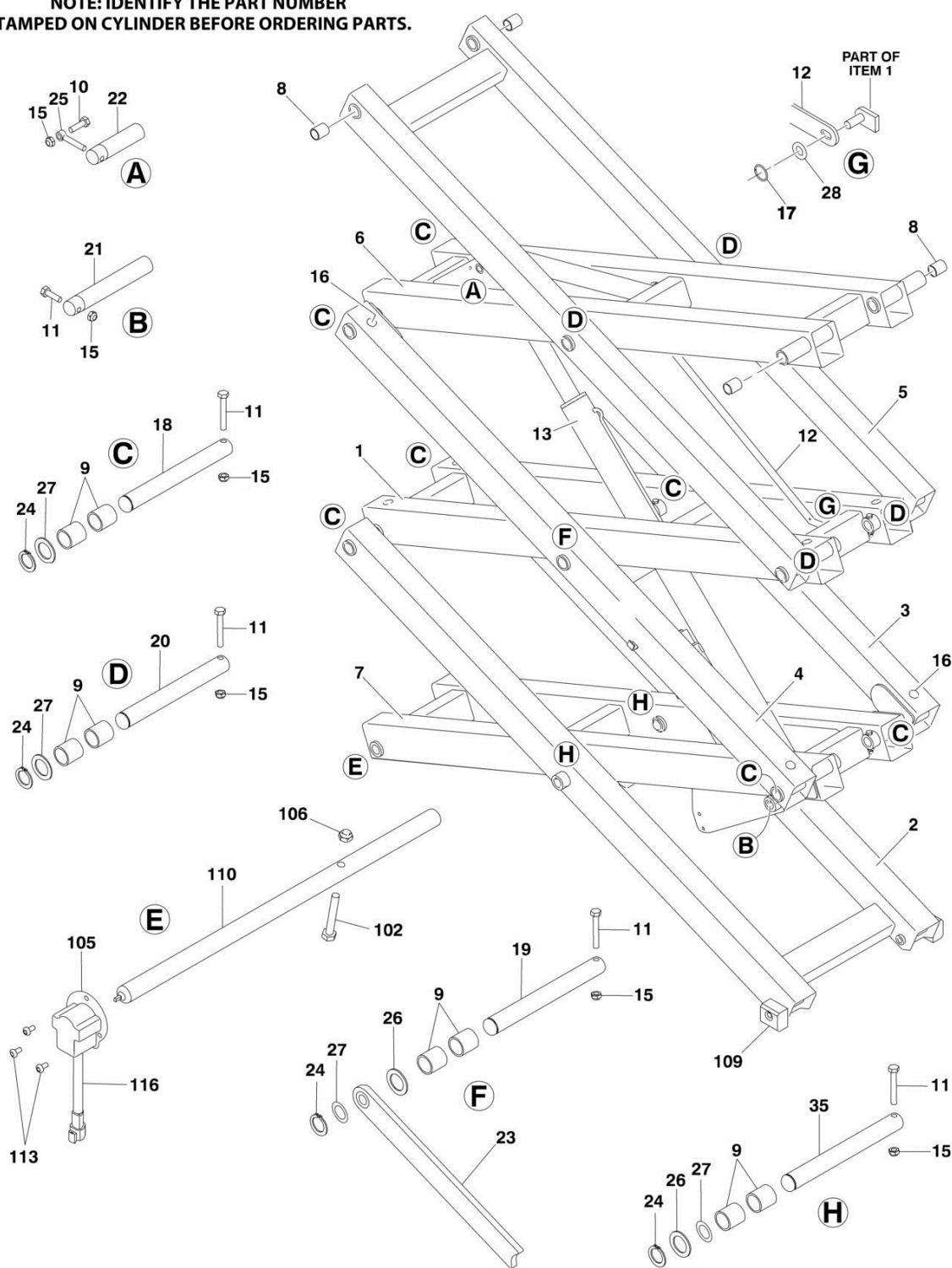
SECTION 3 - SCISSOR ARMS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902455	1	Arms Kit - 1930ES (Includes Items 2-11)	N
		Ref	SCISSOR ARMS INSTALLATIONS - 1930ES	
		Ref	Machines with Standard Hydraulic Oil:	
	0274874	Ref	Scissors Arms Installation with Lift Cylinder Stamped 1684484	I
	1001131004	Ref	Scissors Arms Installation with Lift Cylinder Stamped 1001129288	D
	1001157321	Ref	Scissors Arms Installation with Lift Cylinder Stamped 1001155840	A
		Ref	Machines with Biodegradeable Hydraulic Oil:	
	0275692	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684526	G
	1001131009	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001131033	C
	1001157339	Ref	Scissors Arms Installation with Lift Cylinder Stamped 1001157329	A
102	0701022	1	Bolt M10 x 70mm	
103	3291005	1	Locknut M10	
104	3340964	2	Pad, Slide	
105	3423239	1	Pin, Sensor	
108	1001092354	1	Switch, Rotary Angle Sensor	
110	3200454	1	Mount, Switch	
113	4191706	3	Screw M6 x 12mm	
115	1061036	1	Cable, Manual Descent (Not Shown)	
115	7020218	1	T-Handle (With 1/4in-20 Threads)	
115	70001878	1	T-Handle (With 5mm Threads)	
116	3321402	1	Jam Nut (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	1	Tape, Anti-Skid	

SECTION 3 - SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 2030ES

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



SECTION 3 - SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 2030ES

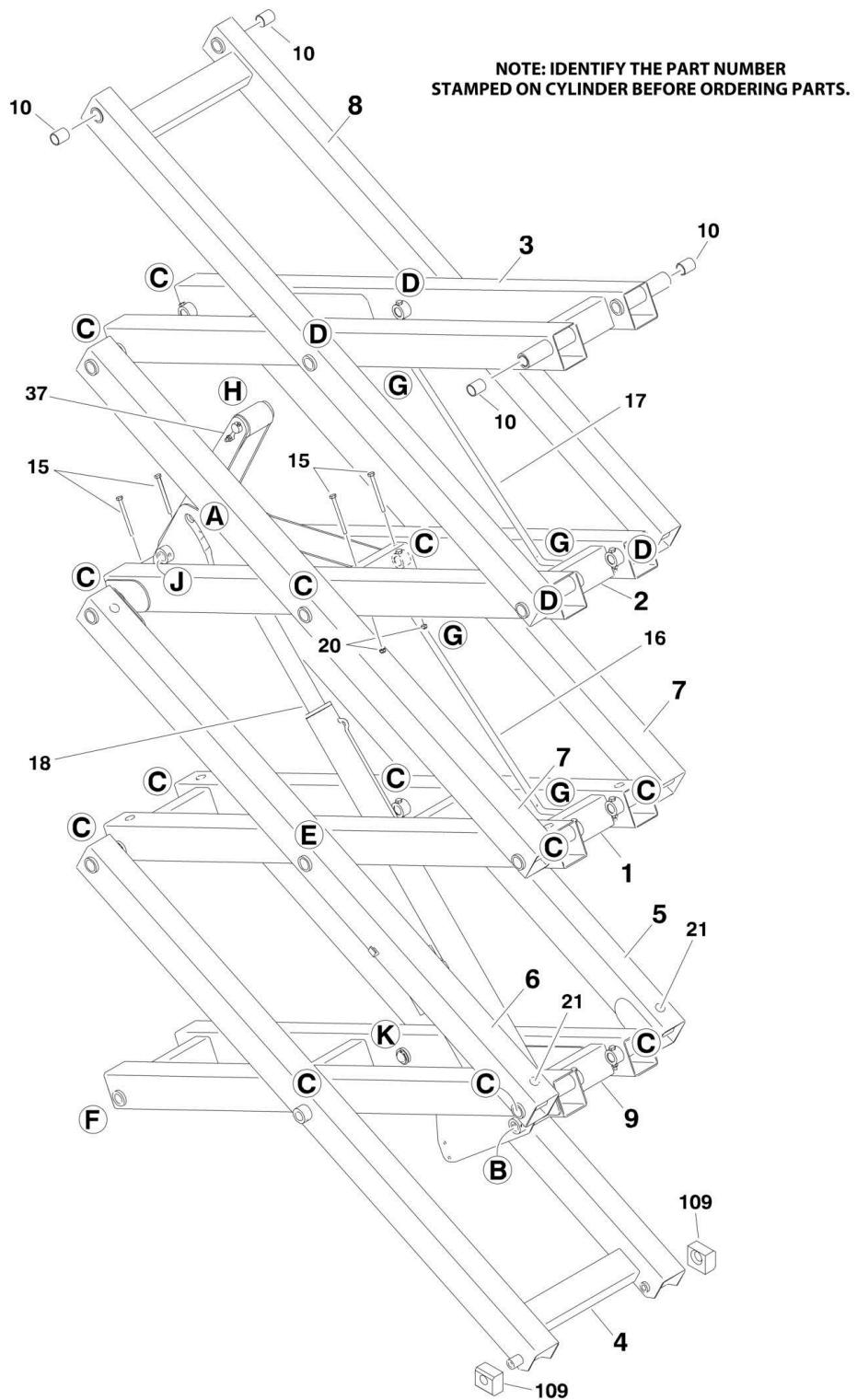
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SCISSOR ARMS ASSEMBLY - 2030ES	
		Ref	Machines with Standard Hydraulic Oil:	
	0275018	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684487	O
	1001131020	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001129289	D
	1001157316	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001155841	A
		Ref	Machines with Biodegradeable Hydraulic Oil:	
	0200839	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684527	M
	1001131028	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001131034	D
	1001157335	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001157330	A
1	0200799	1	Arm - Mid Inboard	
2	0200802	1	Arm - Lower Outboard	
3	0200803	1	Arm - Mid Outboard (Left Side)	
4	0200804	1	Arm - Mid Outboard (Right Side)	
5	0200807	1	Arm - Upper Outboard	
6	0200816	1	Arm - Upper Inboard	
7	0200834	1	Arm - Lower Inboard	
8	0440266	4	Bearing	
9	0440267	28	Bearing	
10	0701015	1	Bolt M10 x 35mm	
11	0701022	15	Bolt M10 x 70mm	
12	1180382	1	Carrier, Cable	
13		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
13		Ref	Machines with Standard Hydraulic Oil	
13	1684487	1	Lift Cylinder Assembly Stamped 1684487	
13	1001129289	1	Lift Cylinder Assembly Stamped 1001129289	
13	1001155841	1	Lift Cylinder Assembly Stamped 1001155841	
13		Ref	Machines with Biodegradeable Hydraulic Oil	
13	1684527	1	Lift Cylinder Assembly Stamped 1684527	
13	1001131034	1	Lift Cylinder Assembly Stamped 1001131034	
13	1001157330	1	Lift Cylinder Assembly Stamped 1001157330	
15	3291007	16	Locknut M10	
16	3340962	16	Pad, Arm	
17	3760170	2	Ring, Split	
18	3422997	7	Pin	
19	3423014	1	Pin	
20	3423036	4	Pin	
21	3423038	1	Pin	
22	3423067	1	Pin	
23	3574161	1	Bar, Prop Attach	
24	3760387	14	Ring, Retaining	
25	3841143	1	Keeper, Pin	
26	4071094	AR	Shim, Spacer	
27	4740438	14	Washer, Special	
28	4812000	2	Flatwasher M10	
35	3423014	2	Pin	
	2902499	1	Scissor Arm Kit - 2030ES (Includes Items 2-9, 12 & 23)	L

SECTION 3 - SCISSOR ARMS

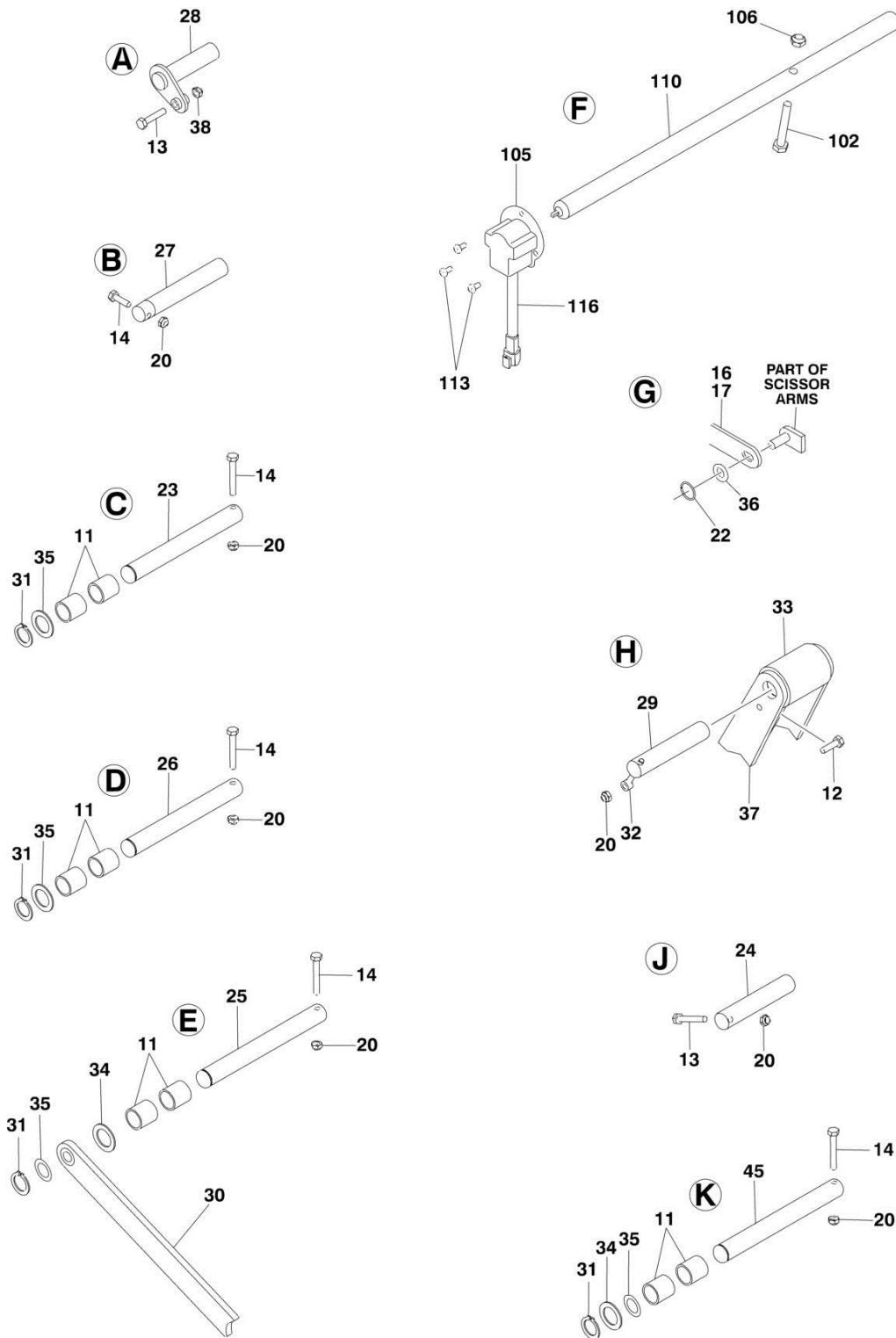
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SCISSOR ARMS INSTALLATIONS - 2030ES	
		Ref	Machines with Standard Hydraulic Oil:	
	0275016	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684487	I
	1001131005	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001129289	D
	1001157322	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001155841	A
		Ref	Machines with Biodegradeable Hydraulic Oil:	
	0275693	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684527	G
	1001131010	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001131034	C
	1001157340	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001157330	A
102	0701022	1	Bolt M10 x 70mm	
103	1061034	1	Cable, Manual Descent (Not Shown):	
103	7020218	1	T-Handle (With 1/4in-20 Threads)	
103	70001878	1	T-Handle (With 5mm Threads)	
105	3200454	1	Mount, Switch	
106	3291005	1	Locknut M10	
108	3321402	1	Nut, Jam 1/4in-28NF (Not Shown)	
109	3340957	2	Pad, Slide	
110	3423259	1	Pin, Sensor	
112	4160078	1	Spring, Compression (Not Shown)	
113	4191706	3	Screw M6 x 12mm	
116	1001092354	1	Switch, Rotary Angle Sensor	

SECTION 3 - SCISSOR ARMS

FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2630ES



SECTION 3 - SCISSOR ARMS



SECTION 3 - SCISSOR ARMS

FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2630ES

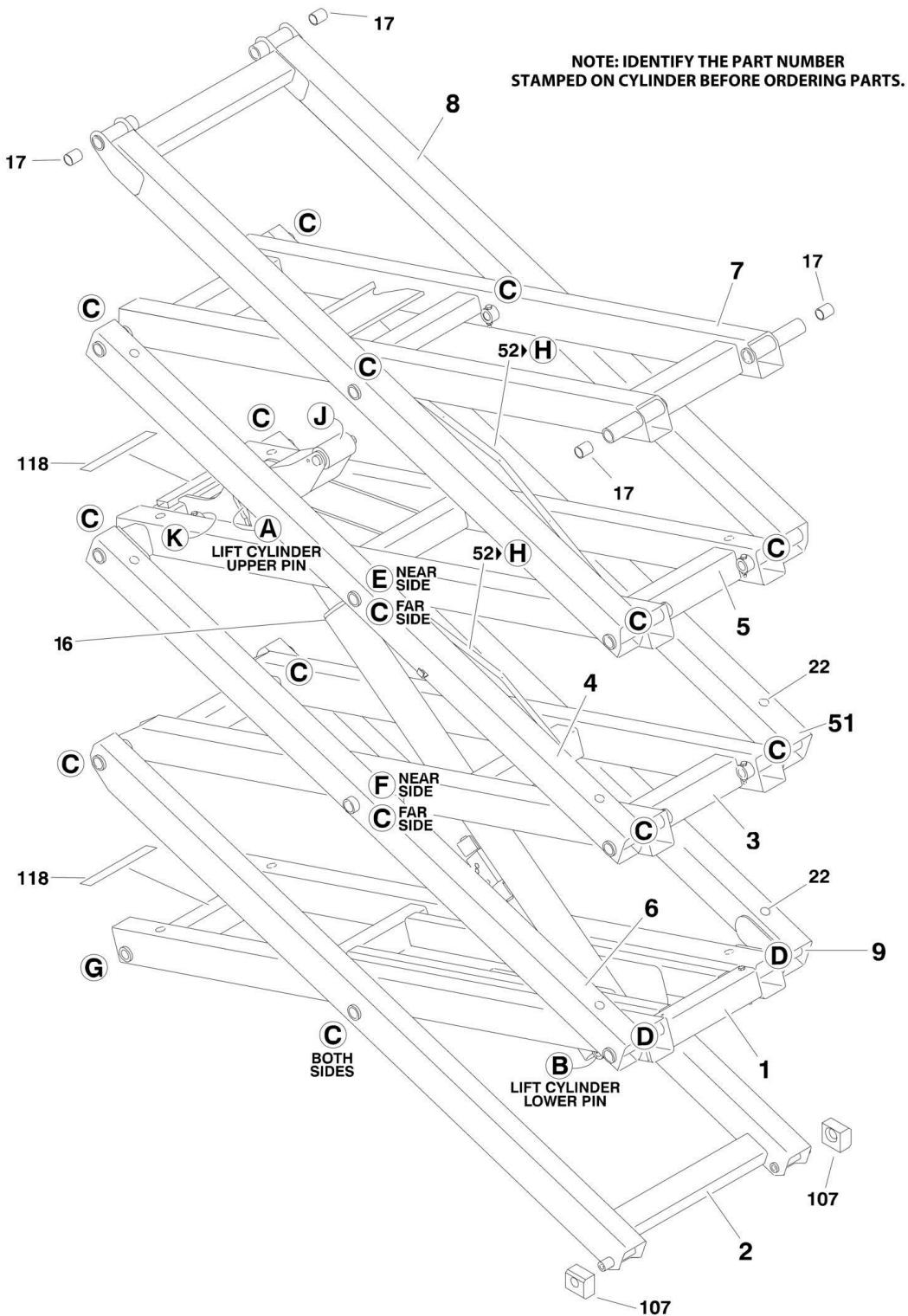
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			SCISSOR ARMS ASSEMBLY - 2630ES	
			Machines with Standard Hydraulic Oil:	
	0275019	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684488	P
	1001131021	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001129290	D
	1001157317	Ref	Scissor Arm Assembly with Lift Cylinder Stamped 1001155842	A
			Machines with Biodegradable Hydraulic Oil:	
	0200840	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684528	N
	1001131029	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001131035	D
	1001157341	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001157331	A
1	0200799	1	Arm - Lower Mid Inboard	
2	0200800	1	Arm - Upper Mid Inboard	
3	0200801	1	Arm - Upper Inboard	
4	0200802	1	Arm - Lower Outboard	
5	0200803	1	Arm - Lower Mid Outboard (Left Side)	
6	0200804	1	Arm - Lower Mid Outboard (Right Side)	
7	0200805	2	Arm - Upper Mid Out board	
8	0200807	1	Arm - Upper Outboard	
9	0200834	1	Arm - Lower Inboard	
10	0440266	4	Bearing	
11	0440267	42	Bearing	
12	0701015	1	Bolt M10 x 35mm	
13	0701017	1	Bolt M10 x 45mm	
14	0701022	18	Bolt M10 x 70mm	
15	0701029	4	Bolt M10 x 120mm	
16	1180382	1	Carrier, Cable	
17	1180383	1	Carrier, Cable	
18		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
18		Ref	Machines with Standard Hydraulic Oil:	
18	1684488	1	Lift Cylinder Assembly Stamped 1644488	
18	1001129290	1	Lift Cylinder Assembly Stamped 1001129290	
18	1001155842	1	Lift Cylinder Assembly Stamped 1001155842	
18		Ref	Machines with Biodegradeable Hydraulic Oil:	
18	1684528	1	Lift Cylinder Assembly Stamped 1684528	
18	1001131035	1	Lift Cylinder Assembly Stamped 1001131035	
18	1001157331	1	Lift Cylinder Assembly Stamped 1001157331	
20	3291007	24	Locknut M10	
21	3340962	24	Pad, Arm	
22	3760170	2	Ring, Split	
23	3422997	13	Pin	
24	3422998	1	Pin	
25	3423014	1	Pin	
26	3423036	4	Pin	
27	3423038	1	Pin	
28	3423039	1	Pin	
29	3423067		Pin	
30	3574161	1	Bar, Prop Attach	

SECTION 3 - SCISSOR ARMS

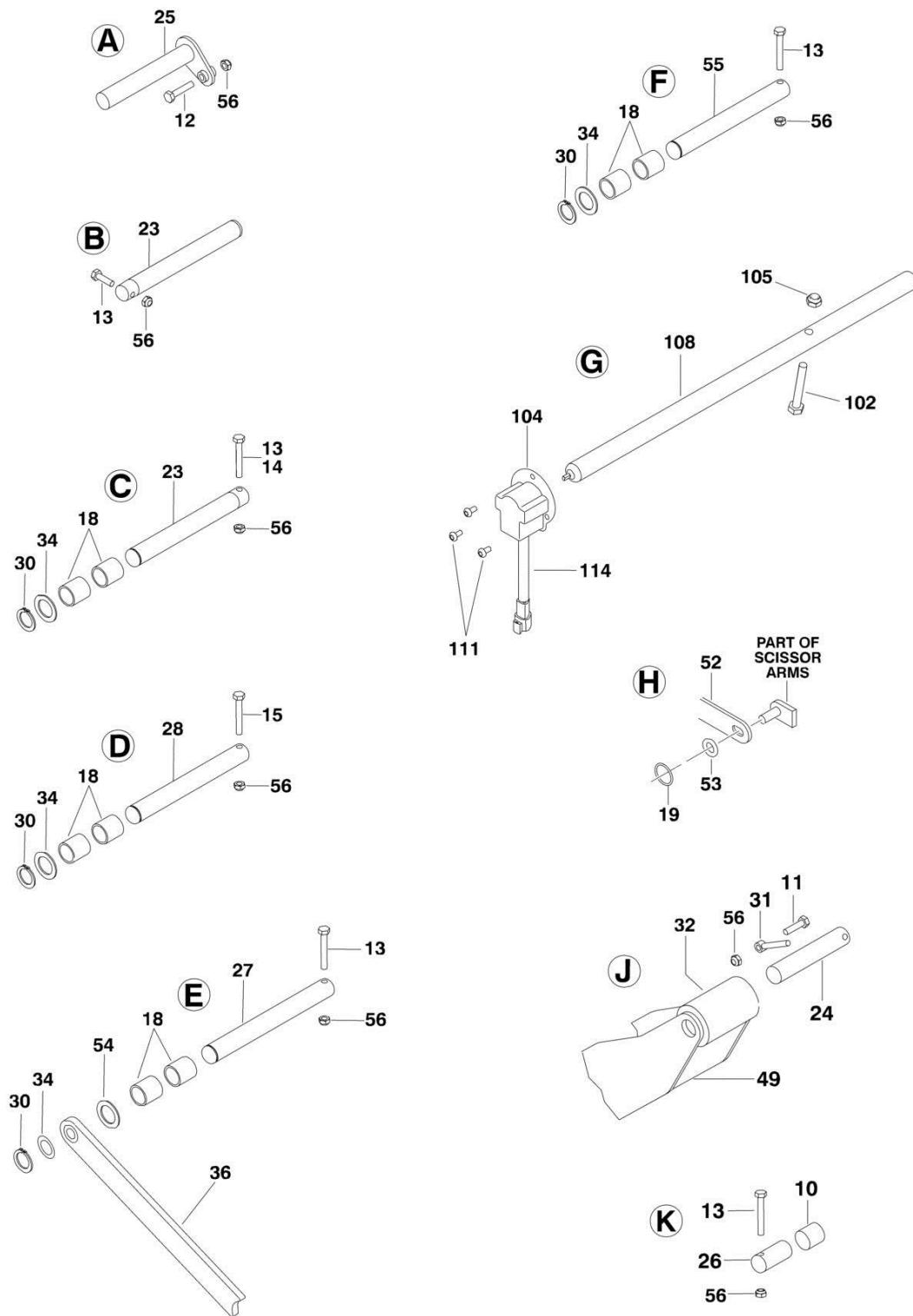
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	3760387	20	Ring, Retaining	
32	3841143	1	Keeper, Pin	
33	3860107	1	Roller	
34	4071094	AR	Shim, Spacer	
35	4740438	20	Washer, Special	
36	4812000	2	Flatwasher M10	
37	4846752	1	Kicker, Arm	
38	3291007	1	Locknut M10	
45	3423014	2	Pin	
	2902500	1	Scissor Arm Kit - 2630ES (Includes Items 1-11, 16, 17, 30 & 37)	N
		Ref	SCISSOR ARMS INSTALLATION	
		Ref	Machines with Standard Hydraulic Oil:	
	0275017	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684488	I
	1001131006	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001129290	C
	1001157323	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001155842	A
		Ref	Machines with Biodegradeable Hydraulic Oil:	
	0275694	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684528	G
	1001131011	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001131035	C
	1001157336	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001157331	A
102	0701022	1	Bolt M10 x 70mm	
103	1061034	1	Cable, Manual Descent (Not Shown):	
103	7020218	1	T-Handle (With 1/4in-20 Threads)	
103	70001878	1	T-Handle (With 5mm Threads)	
105	3200454	1	Mount, Switch	
106	3291005	1	Locknut M10	
108	3321402	1	Nut, Jam 1/4in-28NF (Not Shown)	
109	3340957	2	Pad, Slide	
110	3423259	1	Pin, Sensor	
112	4160078	1	Spring, Compression (Not Shown)	
113	4191706	3	Screw M6 x 12mm	
116	1001092354	1	Switch, Rotary Angle Sensor	

SECTION 3 - SCISSOR ARMS

FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2646ES



SECTION 3 - SCISSOR ARMS



SECTION 3 - SCISSOR ARMS

FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2646ES

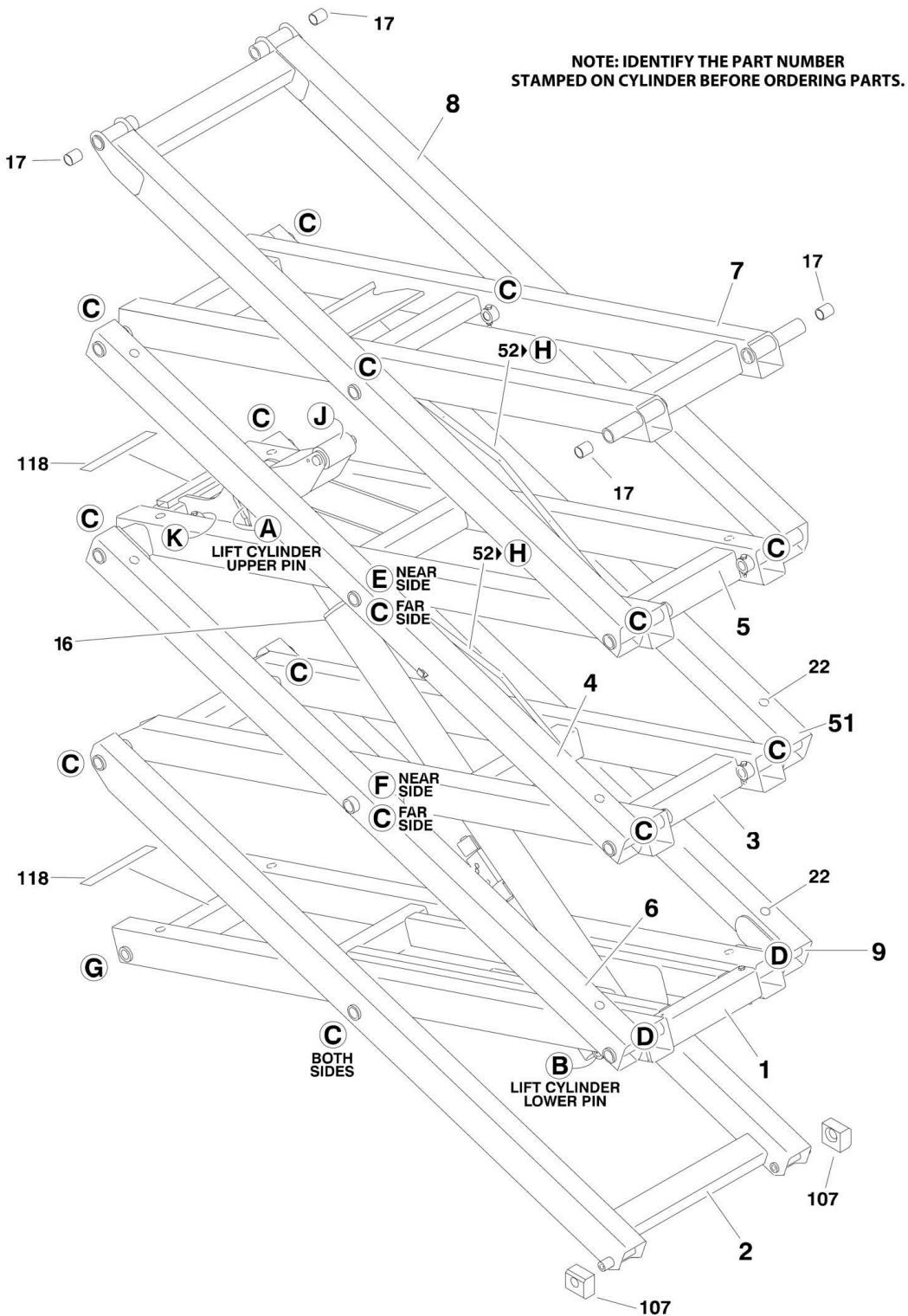
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			SCISSOR ARMS ASSEMBLIES	
			Machines with Standard Hydraulic Oil:	
	0274880	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684489	M
	1001131024	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001129291	F
	1001157319	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001155843	C
			Machines with Biodegradeable Hydraulic Oil:	
	0200841	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684529	K
	1001131030	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001131036	D
	1001157337	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001157332	A
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 40mm	
12	0701020	1	Bolt M10 x 60mm	
13	0701022	19	Bolt M10 x 70mm	
14	0701027	2	Bolt M10 x 100mm	
15	0701029	2	Bolt M10 x 120mm	
16		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
16		Ref	Machines with Standard Hydraulic Oil:	
16	1684489	1	Lift Cylinder Assembly Stamped 1684489	
16	1001129291	1	Lift Cylinder Assembly Stamped 1001129291	
16	1001155843	1	Lift Cylinder Assembly Stamped 1001155843	
16		Ref	Machines with Biodegradeable Hydraulic Oil:	
16	1684529	1	Lift Cylinder Assembly Stamped 1684529	
16	1001131036	1	Lift Cylinder Assembly Stamped 1001131036	
16	1001157332	1	Lift Cylinder Assembly Stamped 1001157332	
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	1	Pin	
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	

SECTION 3 - SCISSOR ARMS

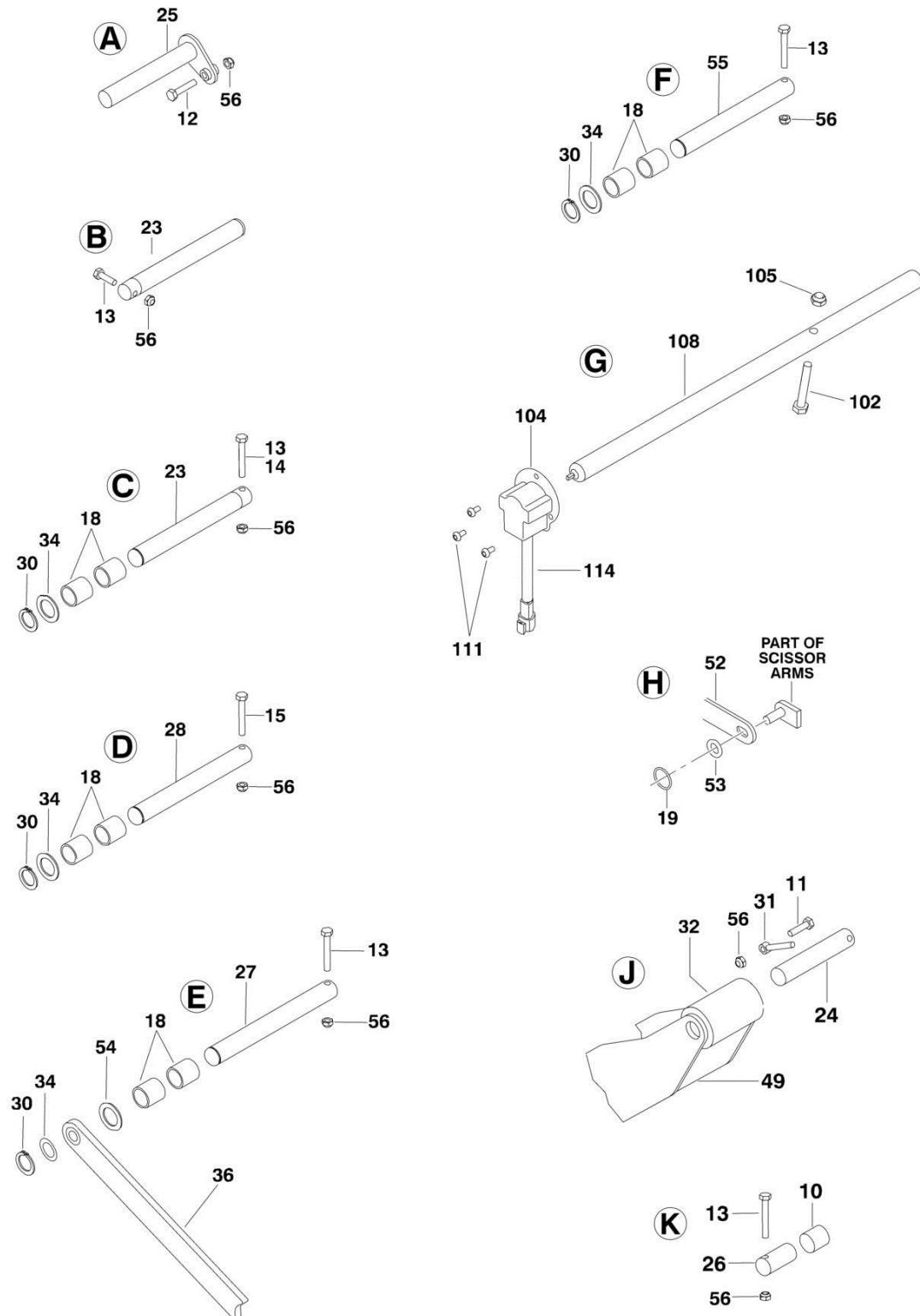
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	4740438	20	Washer, Special	
36	3574161	1	Prop, Safety	
49	4846684	1	Kicker, Arm	
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Flatwasher M10	
54	4071094	AR	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	25	Locknut M10	
	2902475	1	Scissor Arm Kit - 2646ES (Includes Items 1-10, 17, 18, 36, 49, 51 & 52)	L
		Ref	SCISSOR ARMS INSTALLATIONS	
		Ref	Machines with Standard Hydraulic Oil:	
	0274881	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684489	H
	1001131007	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001129291	E
	1001157324	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001155843	C
		Ref	Machines with Biodegradeable Hydraulic Oil:	
	0275695	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1684529	G
	1001131012	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001131036	C
	1001157342	Ref	Scissor Arms Installation with Lift Cylinder Stamped 1001157332	A
102	0701022	2	Bolt M10 x 70mm	
104	3200454	1	Mount, Switch	
105	3291005	2	Locknut M10	
107	3340957	2	Pad, Slide	
108	3423255	1	Pin, Sensor	
111	4191706	3	Screw M6 x 12mm	
114	1001092354	1	Switch, Rotary Angle Sensor	
115	1061034	1	Cable, Manual Descent (Not Shown)	
115	7020218	1	T-Handle (With 1/4in-20 Threads)	
115	70001878	1	T-Handle (With 5mm Threads)	
116	3321402	1	Nut, Jam 1/4in-28NF (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	AR	Tape, Anti-Skid (3 Pcs 41mm x 279mm Each)	
119	4420080	AR	Tape, Anti-Skid (1 Pc 60mm x 279mm) (Not Shown - Located on Bottom Step - Part of Frame)	

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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 3246ES



SECTION 3 - SCISSOR ARMS



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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 3246ES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			SCISSOR ARMS ASSEMBLIES	
			Machines with Standard Hydraulic Oil:	
	0274878	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684490	M
	1001131026	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001129292	F
	1001157320	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001155844	C
			Machines with Biodegradeable Hydraulic Oil:	
	0200842	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1684530	K
	1001131031	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001131037	D
	1001157338	Ref	Scissor Arms Assembly with Lift Cylinder Stamped 1001157333	A
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 40mm	
12	0701020	1	Bolt M10 x 60mm	
13	0701022	19	Bolt M10 x 70mm	
14	0701027	2	Bolt M10 x 100mm	
15	0701029	2	Bolt M10 x 120mm	
16		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
16		Ref	Machines with Standard Hydraulic Oil:	
16	1684490	1	Lift Cylinder Assembly Stamped 1684490	
16	1001129292	1	Lift Cylinder Assembly Stamped 1001129292	
16	1001155844	1	Lift Cylinder Assembly Stamped 1001155844	
16		Ref	Machines with Biodegradeable Hydraulic Oil:	
16	1684530	1	Lift Cylinder Assembly Stamped 1684530	
16	1001131037	1	Lift Cylinder Assembly Stamped 1001131037	
16	1001157333	1	Lift Cylinder Assembly Stamped 1001157333	
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	1	Pin	
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	

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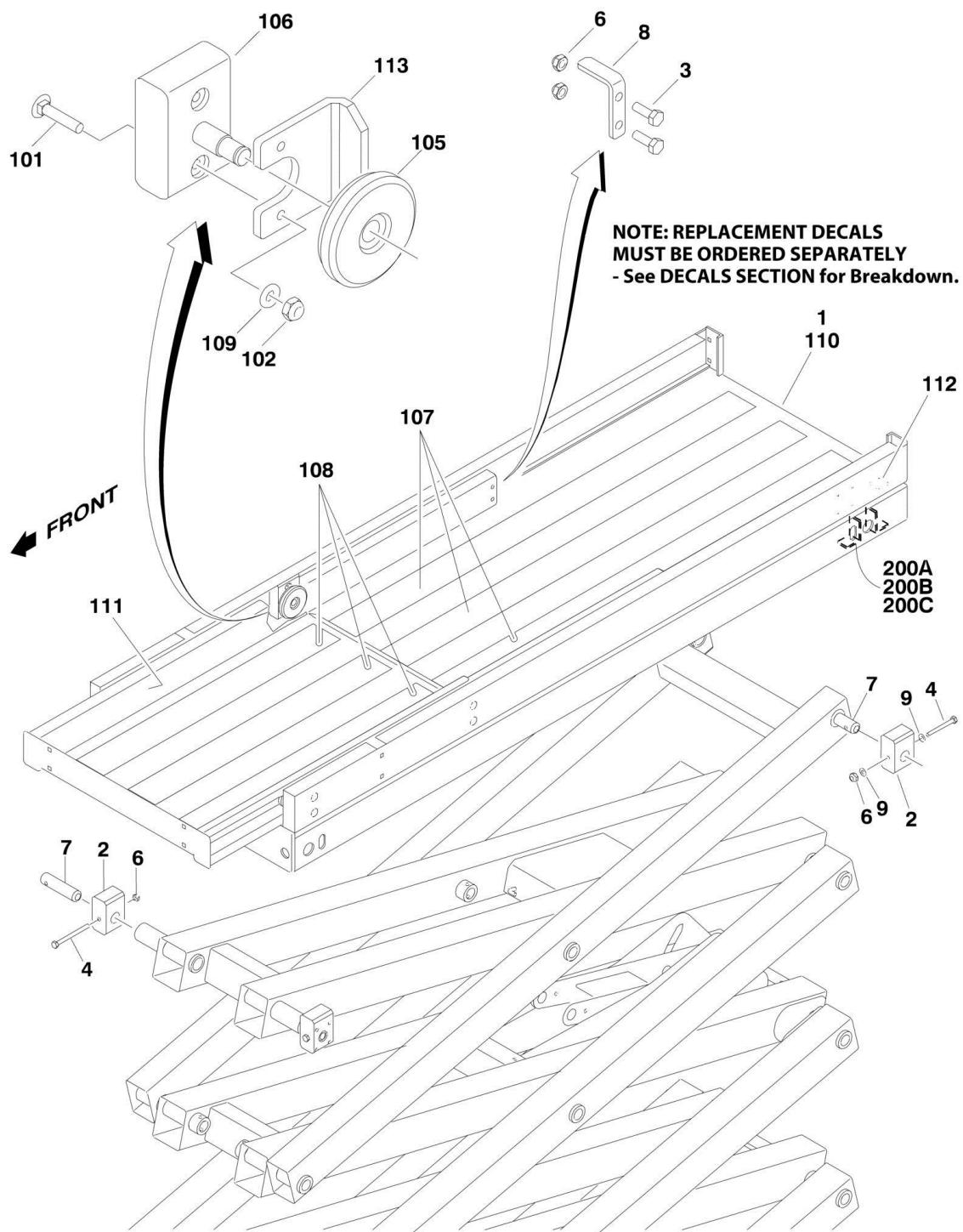
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	4740438	20	Washer, Special	
36	3574161	1	Prop, Safety	
49	4846684	1	Kicker, Arm	
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Flatwasher M10	
54	4071094	AR	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	25	Locknut M10	
	2902475	1	Scissor Arm Kit - 2646ES/3246ES (Includes Items 1-10, 17, 18, 36, 49, 51 & 52)	L
		Ref	SCISSOR ARMS INSTALLATIONS	
		Ref	Machines with Standard Hydraulic Oil:	
	0274879	Ref	Scissor Arms Installation with Lift Cylinder 1684490	H
	1001131008	Ref	Scissor Arms Installation with Lift Cylinder 1001129292	D
	1001157325	Ref	Scissor Arms Installation with Lift Cylinder 1001155844	B
		Ref	Machines with Biodegradeable Hydraulic Oil:	
	0275696	Ref	Scissor Arms Installation with Lift Cylinder 1684530	G
	1001131013	Ref	Scissor Arms Installation with Lift Cylinder 1001131037	C
	1001157343	Ref	Scissor Arms Installation with Lift Cylinder 1001157333	A
102	0701022	2	Bolt M10 x 70mm	
104	3200454	1	Mount, Switch	
105	3291005	2	Locknut M10	
107	3340957	2	Pad, Slide	
108	3423255	1	Pin, Sensor	
111	4191706	3	Screw M6 x 12mm	
114	1001092354	1	Switch, Rotary Angle Sensor	
115	1061034	1	Cable, Manual Descent (Not Shown)	
115	7020218	1	T-Handle (With 1/4in-20 Threads)	
115	70001878	1	T-Handle (With 5mm Threads)	
116	3321402	1	Nut, Jam 1/4in-28NF (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	AR	Tape, Anti-Skid (3 Pcs 41mm x 279mm Each)	
119	4420080	AR	Tape, Anti-Skid (1 Pc 60mm x 279mm) (Not Shown - Located on Bottom Step - Part of Frame)	

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FIGURE 4-1. PLATFORM INSTALLATION



SECTION 4 - PLATFORM

FIGURE 4-1. PLATFORM INSTALLATION

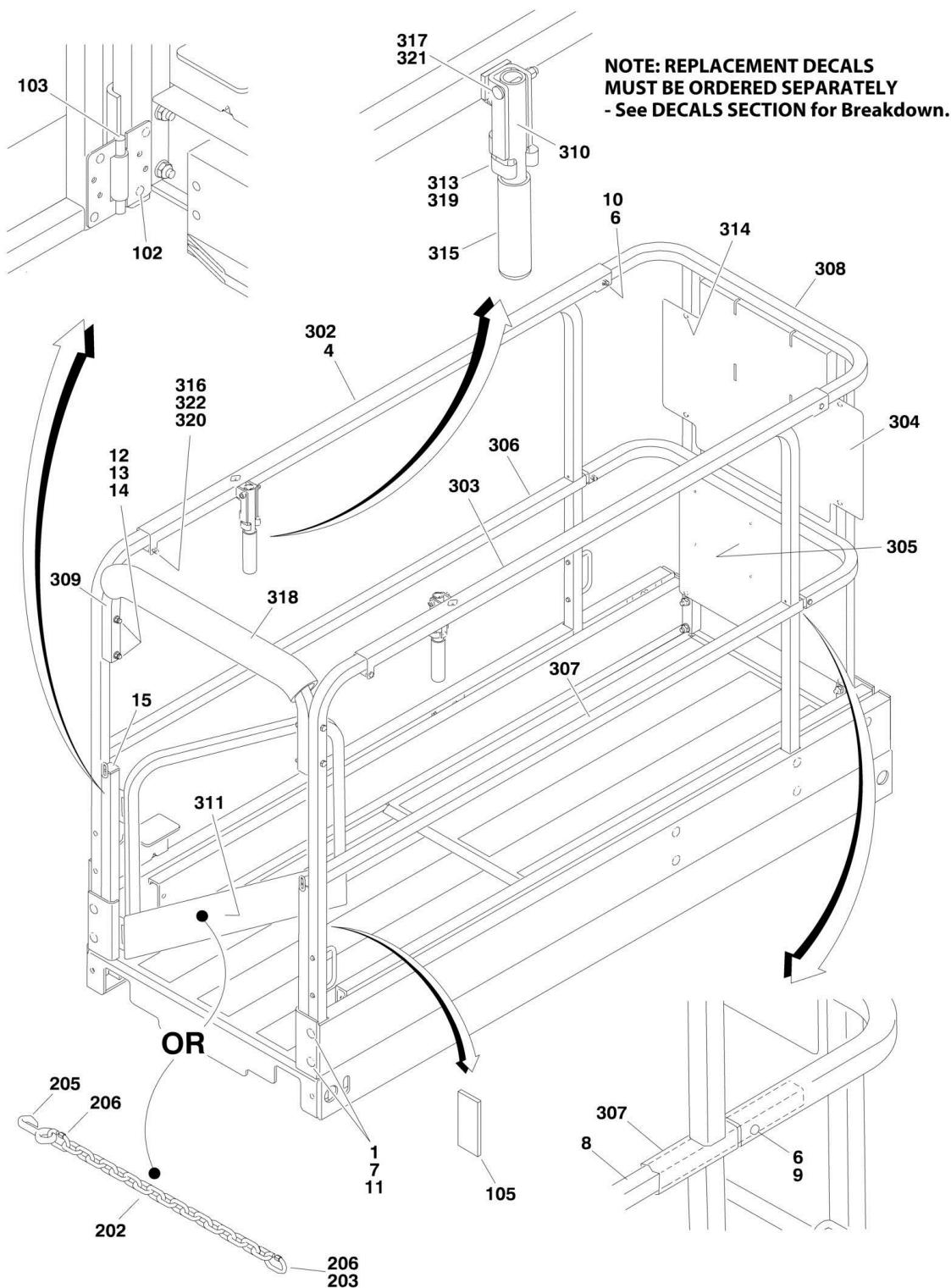
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM INSTALLATIONS	
		Ref	ANSI and CSA Specs	
	0274817	Ref	ANSI and CSA Specs 1930ES (Original Equipment)	E
	1001134933	Ref	ANSI and CSA Specs 1930ES (Service Replacement)	A
	0274991	Ref	ANSI and CSA Specs 2030ES/2630ES	C
	0274930	Ref	ANSI and CSA Specs 2646ES/3246ES	B
		Ref	CE and Japanese Specs	
	0275029	Ref	CE and Japanese Specs 1930ES	F
	0274992	Ref	CE and Japanese Specs 2030ES/2630ES	C
	0274931	Ref	CE and Japanese Specs 2646ES/3246ES	B
		Ref	Note: All versions are available on ANSI Export Specs.	
		Ref	Note: All versions are available on Australian Specs except USA Built Machines SN 0200235789 to 0200239381.	
		Ref	Australian Specs (USA Built Machines) (SN 0200235789 through 0200239381)	
	1001160492	Ref	Australian Specs 1930ES (SN 0200235789 through 0200239381)	A
	1001160522	Ref	Australian Specs 2030ES/2630ES (SN 0200235789 through 0200239381)	A
	1001160530	Ref	Australian Specs 2646ES/3246ES (SN 0200235789 through 0200239381)	A
1	0274818	Ref	Platform Assembly (See Items 101-113 for Breakdown):	
1	1001160453	NLA	Platform Assembly 1930ES (Use p/n 1001134934)	
1		1	Platform Assembly 1930ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
1	0274971	1	Platform Assembly 2030ES/2630ES	
1	1001160520	1	Platform Assembly 2030ES/2630ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
1	0274929	1	Platform Assembly 2646ES/3246ES	
1	1001160524	1	Platform Assembly 2646ES/3246ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
2	3340976	Ref	Block, Slide Options:	
2	3340965	2	Block, Slide 1930ES (Front Block)	
2	1001134951	2	Block, Slide 1930ES (Rear Block)	
2	0561520	2	Block, Slide 1930ES (Spacer Sleeve Used with Rear Block) (Service Replacement Platforms Only)	
3	3900351	4	Block, Slide 2030ES/2630ES/2646ES/3246ES	
4	0701022	Ref	Bolt M10 x 30mm	
4	0701026	NLA	Bolt M10 Options:	
4	0701027	2	Bolt 70mm Length (Front Slide Block - 1930ES)	
4	0701028	2	Bolt 90mm Length (Rear Slide Block - 1930ES) (Use p/n 0701027 - 100mm Length)	
4	0701029	2	Bolt 120mm Length (Rear Slide Block - 1930ES) (Service Replacement Platform Only)	
4	0701024	2	Bolt 80mm Length (Front Slide Block - 2030ES/2630ES/2646ES/3246ES)	
4	0701027	2	Bolt 100mm Length (Rear Slide Block - 2030ES/2630ES/2646ES/3246ES)	
6	3291005	8	Locknut M10	
7	3423049	Ref	Pin Options:	
7	See Note	4	Pin All Machines except CE and Japanese Specs	
7		4	Pin CE and Japanese Spec Machines (Note: Refer to JLG Supplement p/n 3124288)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
8	3574067	2	Plate, Extension Stop	
9	4812000	4	Flatwasher M10	
		Ref	PLATFORM ASSEMBLY	
	0274818	Ref	Platform Assembly 1930ES (Original Equipment)	B
	1001134934	Ref	Platform Assembly 1930ES (Service Replacement)	A
	1001160453	Ref	Platform Assembly 1930ES USA Built Australian Spec (SN 0200235789 through 0200239381)	A
	0274971	Ref	Platform Assembly 2030ES/2630ES	C
	1001160520	Ref	Platform Assembly 2030ES/2630ES USA Built Australian Spec (SN 0200235789 through 0200239381)	A
	0274929	Ref	Platform Assembly 2646ES/3246ES	B
	1001160524	Ref	Platform Assembly 2646ES/3246ES USA Built Australian Spec (SN 0200235789 through 0200239381)	A
101	0630565	8	Bolt, Carriage M10 x 50mm	
102	3291005	8	Locknut M10	
105	3860118	4	Roller	
106	4340914	4	Mount	
107		Ref	Tape, Anti-Skid Options:	
107	4420071	3	Tape, Anti-Skid 1930ES	
107	4420075	3	Tape, Anti-Skid 2030ES/2630ES	
107	4420073	5	Tape, Anti-Skid 2646ES/3246ES	
108		Ref	Tape, Anti-Skid Options:	
108	4420072	3	Tape, Anti-Skid 1930ES/2030ES/2630ES	
108	4420074	5	Tape, Anti-Skid 2646ES/3246ES	
109	4812000	8	Flatwasher M10	
110		Ref	Platform Weldment Options:	
110	3510888	NLA	Platform Weldment 1930ES (Use p/n 1001134935)	
110	1001160452	1	Platform Weldment 1930ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
110	3510892	1	Platform Weldment 2030ES/2630ES	
110	1001160519	1	Platform Weldment 2030ES/2630ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
110	3510890	1	Platform Weldment 2646ES/3246ES	
110	1001160523	1	Platform Weldment 2646ES/3246ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
111		Ref	Extension Weldment Options:	
111	4846768	1	Extension Weldment 1930ES/2030ES/2630ES	
111	1001160583	1	Extension Weldment 1930ES/2030ES/2630ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
111	4846764	1	Extension Weldment 2646ES/3246ES	
111	1001160582	1	Extension Weldment 2646ES/3246ES USA Built Australian Spec (SN 0200235789 through 0200239381)	
112	2540045	1	Grommet	
113	0903574	1	Bracket, Stop (Use with p/n 0274818, 0274971 & 1001134934 Platform Assemblies Only)	
		Ref	SLIDE BLOCK MOUNT REPAIR KITS	
200		Ref	Fixed Mount Repair Kit (Kit includes components and instructions to repair weld cracks in fixed mounting block supports on aluminum platforms)	
200A	2915241	1	Slide Block Mount Repair Kits 1930ES Fixed Mount Repair Kit	
200B	2915240	1	Slide Block Mount Repair Kits 2030ES/2630ES Fixed Mount Repair Kit	
200C	2915241	1	Slide Block Mount Repair Kits 2646ES/3246ES Fixed Mount Repair Kit	

SECTION 4 - PLATFORM

FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES



SECTION 4 - PLATFORM

FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES

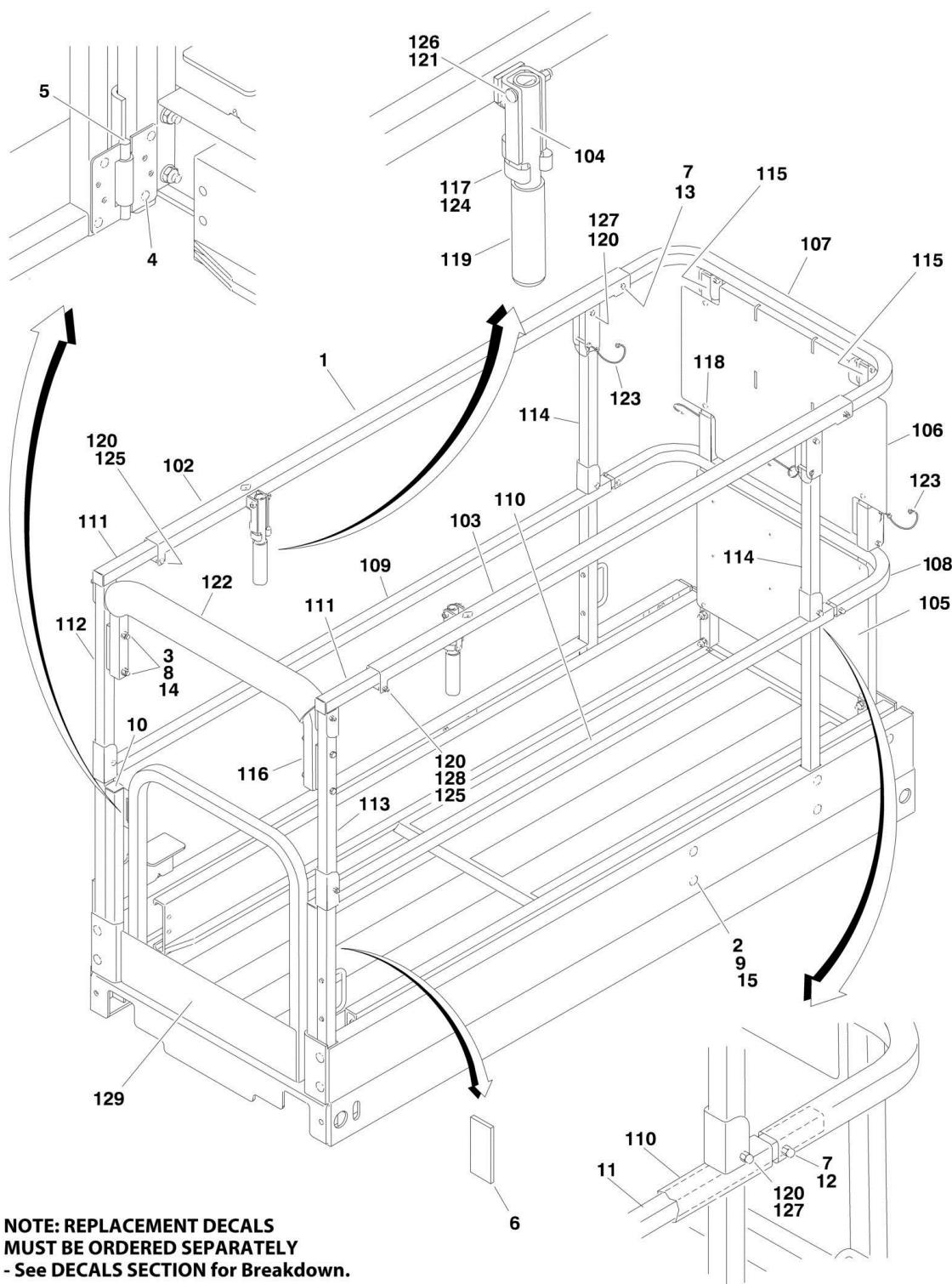
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			RAIL INSTALLATION - 1930ES	
	0274985	Ref	Rails with Gate Closure	D
	0274816	Ref	Rails with Chain Closure	D
1	0630565	12	Bolt, Carriage M10 x 55mm	
4		Ref	Rail Assembly Options (See Items 302-322 for Breakdown):	
4	2902448	1	Rails with Gate Closure	
4	2902496	1	Rails with Chain Closure	
6	3290606	4	Capnut M6	
7	3291005	12	Locknut M10	
8	3841716	2	Rod, Fiberglass	
9	4010616	2	Screw M6 x 40mm	
10	4010618	2	Screw M6 x 50mm	
11	4812000	12	Flatwasher M10	
12	0700823	4	Screw M8 x 75mm	
13	3290806	4	Capnut M8	
14	4811900	4	Flatwasher M8	
15	3520072	2	Cap-Plug	
	0274985	Ref	GATE CLOSURE COMPONENTS	D
		Ref	Note: For Australian Spec Machines with magnetic gate latch, See SPECIAL OPTIONS SECTION for Breakdown.	
102	2080040	8	Fastener, Huck	
103	2600281	2	Hinge	
105	3080007	1	Magnet, Gate	
	0274816	Ref	CHAIN CLOSURE COMPONENTS	D
202	1260136	1.75 ft /53cm	Chain (was 2ft/61cm)	
203	2820097	1.67 ft /51cm	Cover, Chain (was 2ft/61cm)	
205	2940064	NLA	Snap Latch Repair Kit (Use p/n 1001101076) (Includes Item 206)	
206	3010088	2	Link	
		Ref	RAIL ASSEMBLY - 1930ES	
	2902496	Ref	Rails with Gate Closure	L
	2902448	Ref	Rails with Chain Closure	J
302	1271617	1	Rail, Slide (Left)	
303	1271618	1	Rail, Slide (Right)	
304	3576645	1	Plate, Billboard (Upper)	
305	3574184	1	Plate, Billboard (Lower)	
306	3641604	1	Rail, Side (Left)	
307	3641605	1	Rail, Side (Right)	
308	3641606	1	Rail, Extension Platform (Front)	
309	4569305	1	Rail (Rear)	
310	2560191	2	Handle, Extension	
311	4846723	1	Gate (2902496 Rail Assembly Only)	
313	1380132	2	Clip, Gripper	
314	2080040	8	Fastener, Huck	
315	2560088	2	Cover, Handle	
316	3290606	2	Capnut M6	
317	3290806	2	Capnut M8	
318	3340612	18 in /46cm	Pad, Rail	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
319	3820019	2	Rivet	
320	3860111	2	Roller	
321	3900345	2	Screw M8 x 45mm	
322	4010618	2	Screw M6 x 50mm	
	2902449	1	Rails Kit - 1930ES (Includes Items 302-310)	M

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FIGURE 4-3. RAIL (FOLD-DOWN) INSTALLATION - 1930ES



**NOTE: REPLACEMENT DECALS
MUST BE ORDERED SEPARATELY**
- See DECALS SECTION for Breakdown.

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FIGURE 4-3. RAIL (FOLD-DOWN) INSTALLATION - 1930ES

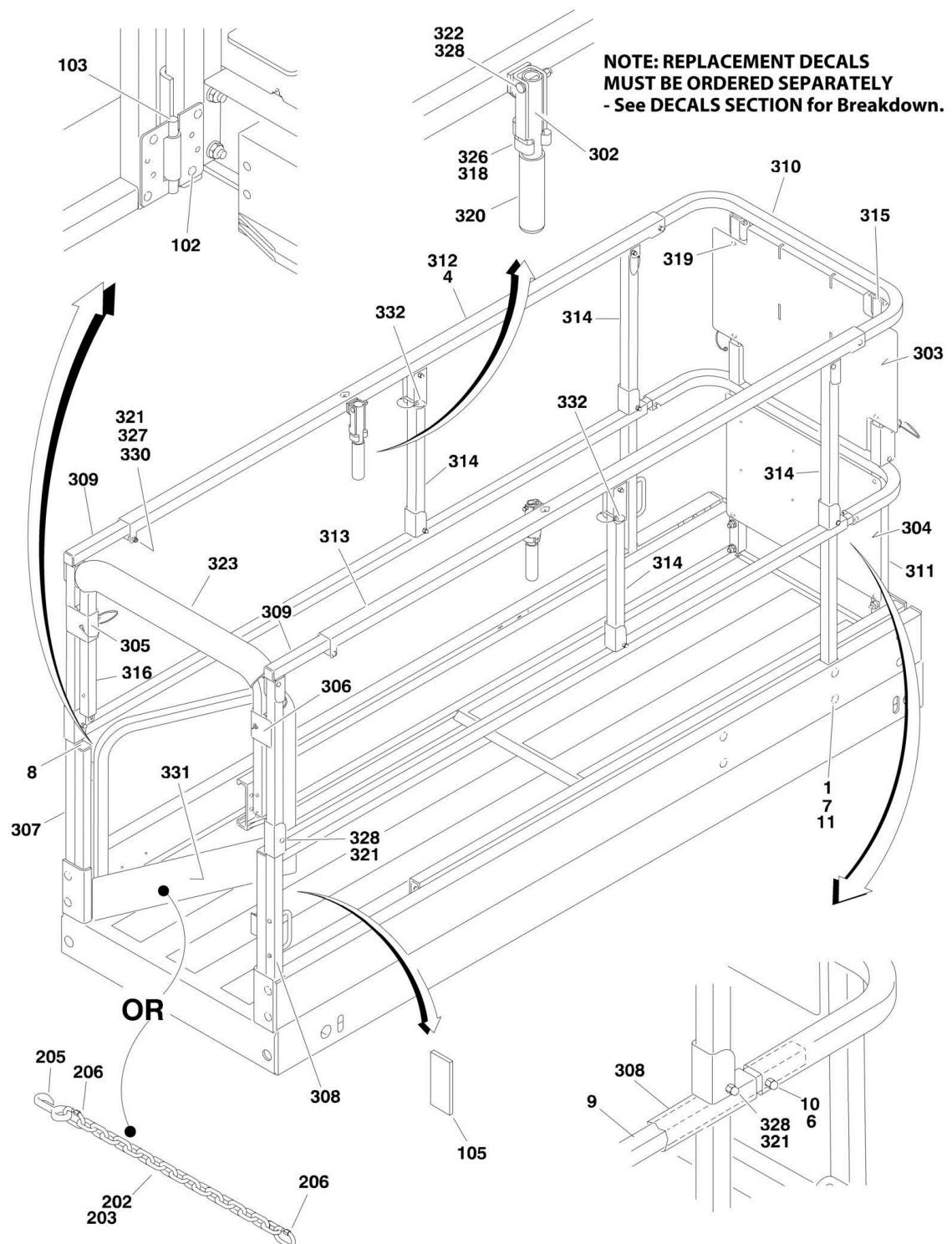
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275429	Ref	RAIL INSTALLATION - 1930ES	
1	2902535	1	Rails with Gate Closure	D
2	0630565	12	Rail Assembly (See Items 102-129 for Breakdown)	
3	0700825	4	Bolt, Carriage M10 x 55mm	
4	2080040	8	Bolt M8 x 85mm	
5	2600281	2	Fastener, Huck	
6	3080007	1	Hinge	
7	3290606	4	Magnet, Gate	
8	3290806	4	Capnut M6	
9	3291005	12	Capnut M8	
10	3520072	4	Capnut M10	
11	3841716	2	Cap-Plug	
12	4010616	2	Tube, Slide (Mid)	
13	4010618	2	Screw M6 x 40mm	
14	4811900	4	Screw M6 x 50mm	
15	4812000	12	Flatwasher M8	
		Ref	RAIL ASSEMBLY - 1930ES	
	2902535	Ref	Rails with Gate Closure	I
102	1271617	1	Rail, Slide (Left)	
103	1271618	1	Rail, Slide (Right)	
104	2560191	2	Handle, Extension	
105	3574184	1	Plate, Billboard (Lower)	
106	3576932	1	Plate, Billboard (Upper)	
107	3641619	1	Rail (Front Upper)	
108	3641620	1	Rail (Front Mid)	
109	3641650	1	Rail (Left Lower Side)	
110	3641651	1	Rail (Right Lower Side)	
111	3641652	2	Rail (Both Upper Sides)	
112	3641653	1	Rail (Left Rear Upper)	
113	3641654	1	Rail (Right Rear Upper)	
114	4568667	2	Tube, Folding (Both Mid Side)	
115	4569404	2	Tube, Folding (Both Front)	
116	4569428	1	Rail (Rear)	
117	1380132	2	Clip, Gripper	
118	2080040	8	Fastener, Huck	
119	2560088	2	Cover, Handle	
120	3290606	14	Capnut M6	
121	3290806	2	Capnut M8	
122	3340612	18 in /46cm	Pad, Rail	
123	3423278	4	Snap Pin/Lanyard Kit	
124	3820019	2	Rivet	
125	3860111	2	Roller	
126	3900345	2	Capscrew M8 x 45mm	
127	4010617	12	Screw M6 x 45mm	
128	4010618	2	Screw M6 x 50mm	
129	4846723	1	Gate	
		Ref	Note: For Australian Spec Machines with magnetic gate latch, See SPECIAL OPTIONS SECTION for Breakdown.	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902536	1	Rails Kit - 1930ES (Includes Items 102-116)	K

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FIGURE 4-4. RAIL INSTALLATION - 2030ES/2630ES



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FIGURE 4-4. RAIL INSTALLATION - 2030ES/2630ES

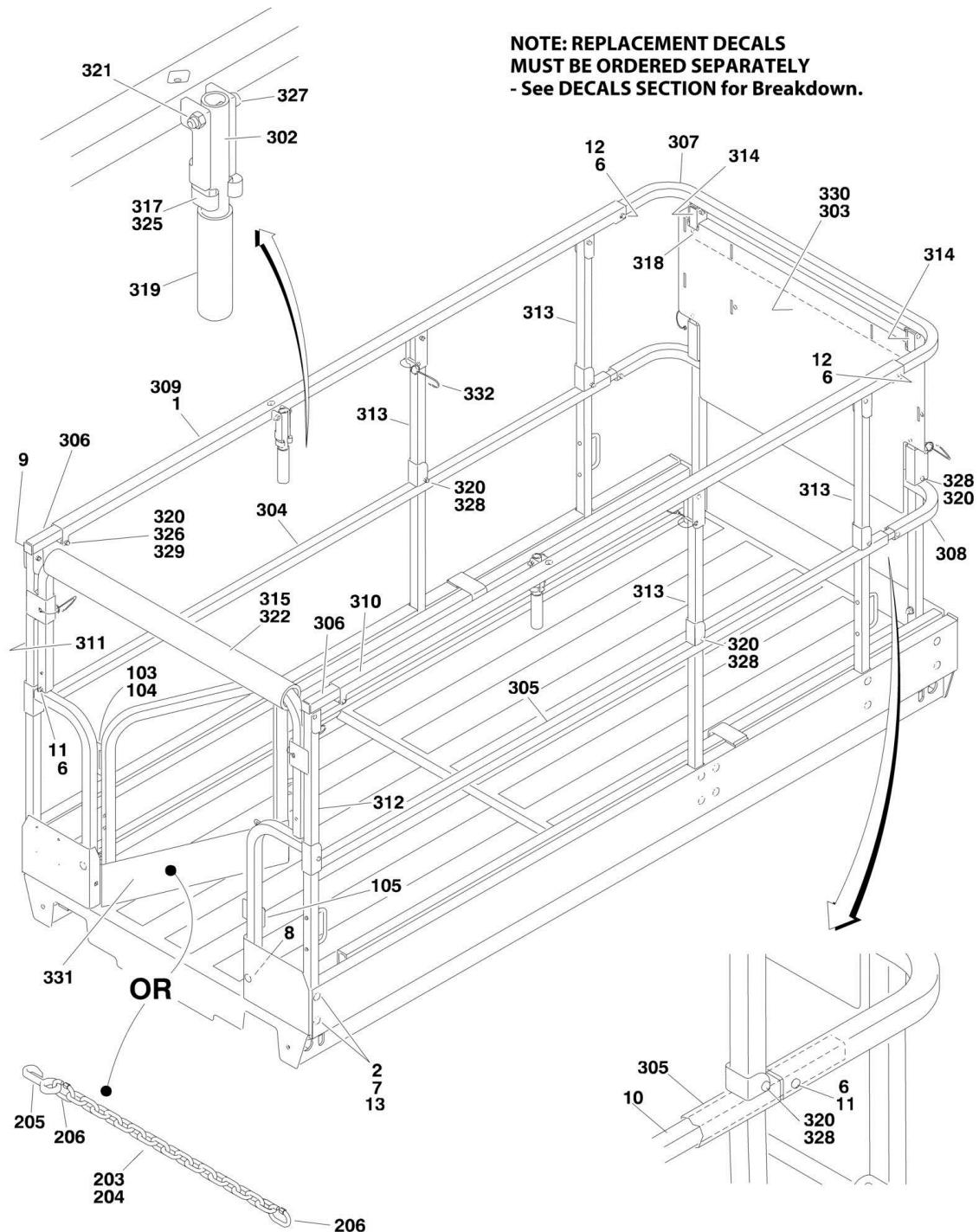
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			RAIL INSTALLATION - 2030ES/2630ES	
	0274944	Ref	Rails with Gate Closure	D
	0274943	Ref	Rails with Chain Closure	D
1	0630565	12	Bolt, Carriage M10 x 55mm	
4		Ref	Rail Assembly Options (See Items 302-332 for Breakdown):	
4	2902493	1	Rails with Gate Closure	
4	2902492	1	Rails with Chain Closure	
6	3290606	2	Capnut M6	
7	3291005	12	Locknut M10	
8	3520072	4	Cap-Plug	
9	3841716	2	Rod, Fiberglass	
10	4010616	2	Screw M6 x 40mm	
11	4812000	12	Flatwasher M10	
	0274944	Ref	GATE CLOSURE COMPONENTS	D
		Ref	Note: For Australian Spec Machines with magnetic gate latch, See SPECIAL OPTIONS SECTION for Breakdown.	
102	2080040	8	Fastener, Huck	
103	2600281	2	Hinge	
105	3080007	1	Magnet, Gate	
	0274943	Ref	CHAIN CLOSURE COMPONENTS	D
202	1260136	1.67 ft /51cm	Chain (was 2ft/61cm)	
203	2820097	1.58 ft /49cm	Cover, Chain (was 2ft/61cm)	
205	2940064	NLA	Snap Latch Repair Kit (Use p/n 1001101076) (Includes Item 206)	
206	3010088	2	Link	
		Ref	RAIL ASSEMBLY - 2030ES/2630ES	
	2902493	Ref	Rails with Gate Closure	N
	2902492	Ref	Rails with Chain Closure	N
302	2560191	2	Handle, Extension	
303	3576932	1	Plate, Billboard (Upper)	
304	3574184	1	Plate, Billboard (Lower)	
305	3641614	1	Rail, Upright (Left Rear)	
306	3641615	1	Rail, Upright (Right Rear)	
307	3641616	1	Rail, Side (Left)	
308	3641617	1	Rail, Side (Right)	
309	3641618	2	Rail, Platform (Top)	
310	3641619	1	Rail, Extension (Top)	
311	3641620	1	Rail, Extension (Mid)	
312	3641621	1	Rail, Slide (Left)	
313	3641622	1	Rail, Slide (Right)	
314	4568667	4	Tube, Folding Post (Platform)	
315	4569404	2	Tube, Folding Post (Extension)	
316	4569319	1	Rail (Rear)	
318	1380132	2	Clip, Gripper	
319	2080040	10	Fastener, Huck	
320	2560088	2	Handle	
321	3290606	20	Capnut M6	
322	3290806	2	Capnut M8	
323	3340612	18 in	Pad, Rail	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
326	3820019	2	Rivet	
327	3860111	2	Roller	
328	3900345	2	Screw M8 x 45mm	
329	4010617	24	Screw M6 x 45mm	
330	4010618	2	Screw M6 x 50mm	
331	4846723	1	Gate (2902493 Assembly Only)	
332	3423278	4	Snap Pin/Lanyard Kit	
	2902494	1	Rails Kit - 2030ES/2630ES (Includes Items 302-316)	Q

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FIGURE 4-5. RAIL INSTALLATION - 2646ES/3246ES



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FIGURE 4-5. RAIL INSTALLATION - 2646ES/3246ES

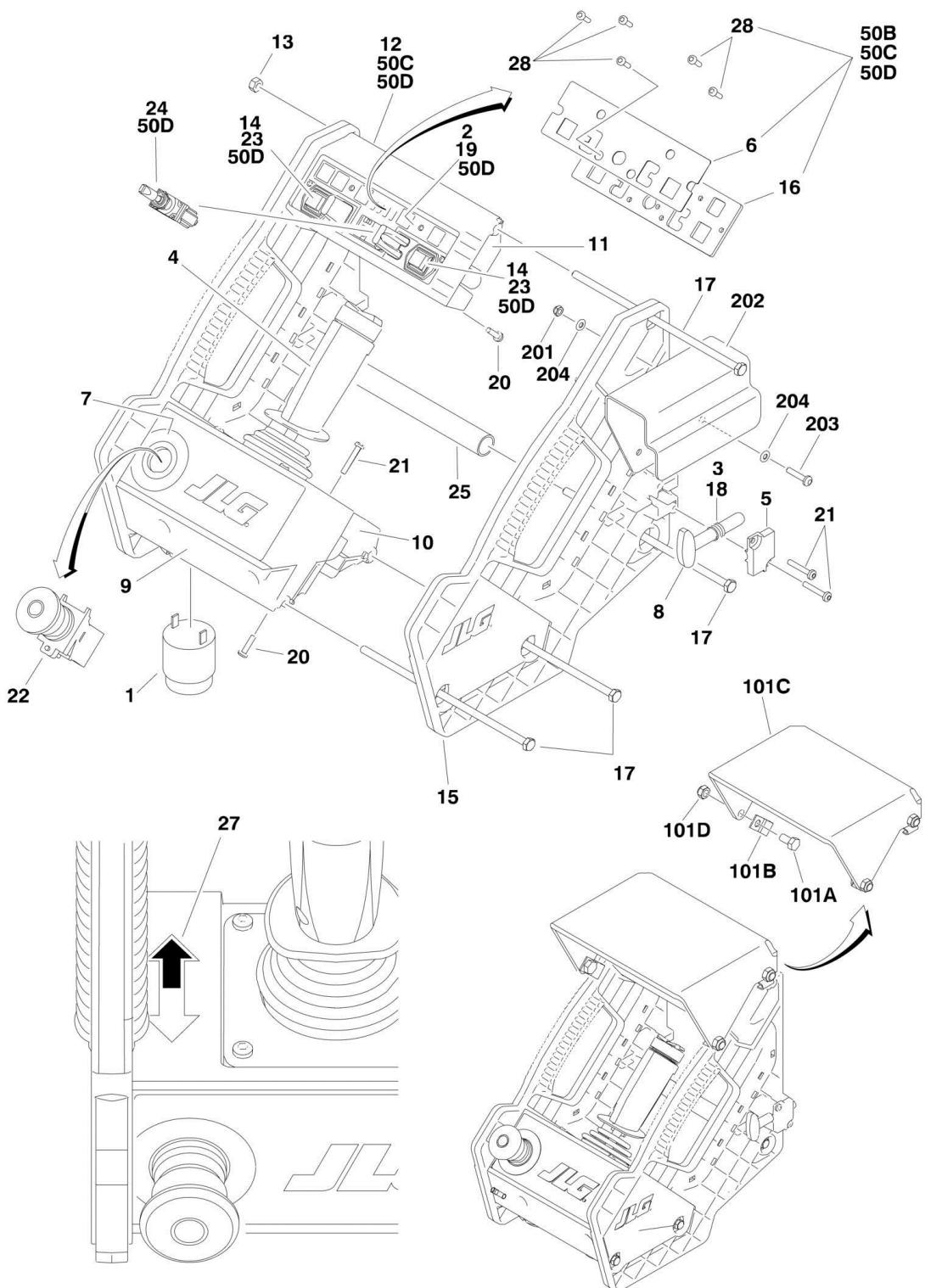
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			RAIL INSTALLATION - 2646ES/3246ES	
	0274932	Ref	Rails with Gate Closure	C
	0274933	Ref	Rails with Chain Closure	C
1		Ref	Rail Assembly Options (See Items 301-332 for Breakdown):	
1	2902490	1	Rails with Gate Closure	
1	2902491	1	Rails with Chain Closure	
2	0630565	18	Bolt, Carriage M10 x 55mm	
6	3290606	2	Capnut M6	
7	3291005	18	Locknut M10	
8	3300477	2	Nut, Acorn	
9	3520072	2	Cap-Plug	
10	3841716	2	Rod, Fiberglass	
11	4010616	3	Screw M6 x 40mm	
12	4010618	3	Screw M6 x 50mm	
13	4812000	18	Flatwasher M10	
	0274932	Ref	GATE CLOSURE COMPONENTS	C
		Ref	Note: For Australian Spec Machines with magnetic gate latch, See SPECIAL OPTIONS SECTION for Breakdown.	
103	2080040	8	Fastener, Huck	
104	2600281	2	Hinge	
105	3080007	1	Magnet, Gate	
	0274933	Ref	CHAIN CLOSURE COMPONENTS	C
203	1260136	1.75 ft /53cm	Chain (was 2ft/61cm)	
204	2820097	1.67 ft /51cm	Cover, Chain (was 2ft/61cm)	
205	2940064	NLA	Snap Latch Repair Kit (Use p/n 1001101076) (Includes Item 206)	
206	3010088	2	Link	
		Ref	RAIL ASSEMBLY - 2030ES/2630ES	
	2902490	Ref	Rails with Gate Closure	M
	2902491	Ref	Rails with Chain Closure	L
302	2560191	2	Handle, Extension	
303	3576646	1	Plate, Billboard	
304	3641607	1	Rail, Side (Left Lower)	
305	3641608	1	Rail, Side (Right Lower)	
306	3641609	2	Rail, Platform (Top)	
307	3641610	1	Rail, Extension (Top)	
308	3641611	1	Rail, Extension (Mid)	
309	3641612	1	Rail, Slide (Left)	
310	3641613	1	Rail, Slide (Right)	
311	3641614	1	Rail, Side (Left Rear)	
312	3641615	1	Rail, Side (Right Rear)	
313	4568667	4	Tube, Folding Post (Platform)	
314	4569404	2	Tube, Folding Post (Extension)	
315	4569310	1	Rail (Rear)	
317	1380132	2	Clip, Gripper	
318	2080040	6	Fastener, Huck	
319	2560088	2	Handle	
320	3290606	18	Capnut M6	
321	3290806	2	Capnut M8	

SECTION 4 - PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
322	3340612	18 in /46cm	Pad, Rail	
325	3820019	2	Rivet	
326	3860111	2	Roller	
327	3900345	2	Screw M8 x 45mm	
328	4010617	24	Screw M6 x 45mm	
329	4010618	2	Screw M6 x 50mm	
330	4420037	AR	Tape, Insulation	
331	4846723	1	Gate (2902490 Assembly Only)	
332	3423278	4	Snap Pin/Lanyard Kit	
	2902489	1	Rails Kit - 2646ES/3246ES (Includes Items 302-315)	P

SECTION 4 - PLATFORM

FIGURE 4-6. PLATFORM CONSOLE BOX INSTALLATION



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FIGURE 4-6. PLATFORM CONSOLE BOX INSTALLATION

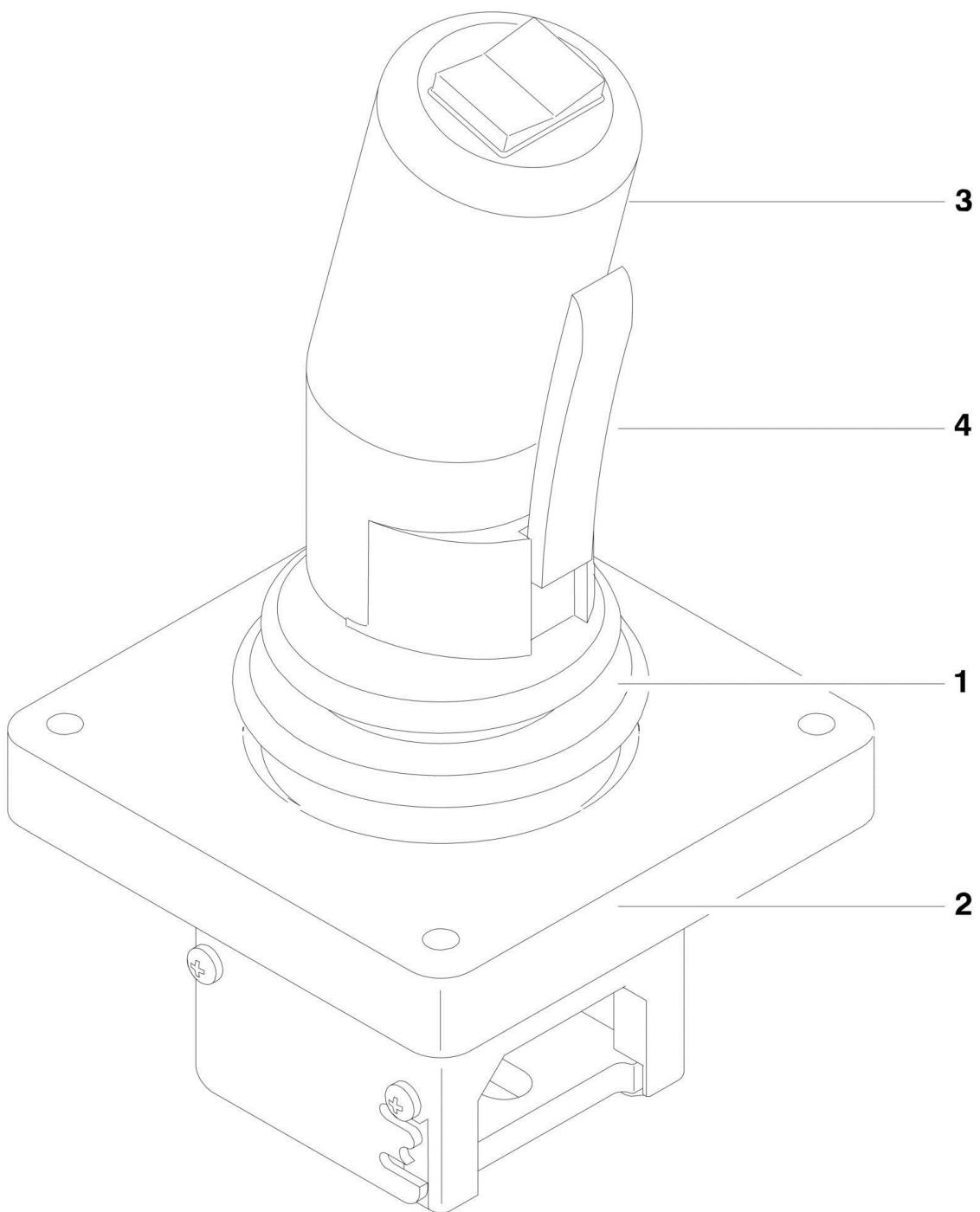
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			CONSOLE BOX ASSEMBLY	
	1001091153	Ref	All Specs except Australian and CE Spec	I
	1001091153	Ref	Australian Spec USA Built Machines (SN 0200198014 through 0200211630)	I
	1001091153	Ref	Australian Spec China Built Machines (SN B200000100 through B200007192)	I
	1001091154	Ref	Australian Spec USA Built Machines 1930ES/2646ES/3246ES (SN 0200211631 through 0200239381)	H
	1001091154	Ref	Australian Spec USA Built Machines 2030ES/2630ES (SN 0200211631 to Present)	H
	1001091154	Ref	Australian Spec China Built Machines 1930ES/2646ES/3246ES (SN B200007193 through B200020296)	H
	1001091154	Ref	Australian Spec China Built Machines 2030ES/2630ES (SN B200007193 to Present)	H
			CE Spec	H
1	0140011	1	Alarm	
2	1600439	NLA	Platform Box Control Module (Use Item 50D)	
3	1380156	1	E-Clip	
4	1600402	NLA	Drive/Steer Controller Assembly (Use p/n 1001134438) (See DRIVE/STEER CONTROLLER ASSEMBLY for Breakdown)	
5	1671098	1	Latch	
6		Ref	Decal - Icon Options:	
6	1001091272	1	Decal - Icon All Specs except Australian and CE Spec	
6	1001091272	1	Decal - Icon Australian Spec USA Built Machines (SN 0200198014 through 0200211630)	
6	1001091272	1	Decal - Icon Australian Spec China Built Machines (SN B200000100 through B200007192)	
6	1001091275	1	Decal - Icon Australian Spec USA Built Machines 1930ES/2646ES/3246ES (SN 0200211631 through 0200239381)	
6	1001091275	1	Decal - Icon Australian Spec USA Built Machines 2030ES/2630ES (SN 0200211631 to Present)	
6	1001091275	1	Decal - Icon Australian Spec China Built Machines 1930ES/2646ES/3246ES (SN B200007193 through B200020296)	
6	1001091275	1	Decal - Icon Australian Spec China Built Machines 2030ES/2630ES (SN B200007193 to Present)	
6	1001091275	1	Decal - Icon CE Spec	
7	1705676	1	Decal - Emergency Stop Ring	
8	2560179	1	Handle, Latch	
9	1001091277	1	Housing, Joystick (Lower)	
10	1001091278	1	Mount, Joystick	
11	2760115	NLA	Housing, Module Mounting (Lower) (Use p/n 1001091279)	
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	See Note	1	Plate, Decal (Note: Use Item 50B, 50C or 50D)	
17	3900333	4	Screw M6 x 190mm	
18	4160203	1	Spring, Compression	
19	4191306	5	Screw M3.5 x 12mm	
20	4191407	8	Screw M4 x 16mm	
21	4191409	6	Screw M4 x 25mm	

SECTION 4 - PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
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 12mm	
50		Ref	Kit Options:	
50B	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 and 1 for CE Specs. For Australian Spec refer to Item 6 for decal usage. Use decal required for applicable spec. Dispose of the decal not used)	A
50C	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 and 1 for CE Specs. For Australian Spec refer to Item 6 for decal usage. Use decal required for applicable spec. Dispose of the decal not used)	C
50D	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 and 1 for CE Specs. For Australian Spec refer to Item 6 for decal usage. Use decal required for applicable spec. Dispose of the decal not used)	C
	0272878	Ref	ANTI-VANDALISM PACKAGE INSTALLATION (NOT SHOWN)	E
	1671131	1	Cover, Lockable Platform Console Box	
	0273841	Ref	PLATFORM BOX COVER INSTALLATION	
	1001118216	Ref	USA Built Machines (SN 0200152825 through 0200202717)	A-C
	1001118216	Ref	USA Built Machines (SN 0200202718 through 0200198014)	A
	0273841	Ref	All Belgium Machines	A-C
	0273841	Ref	China Machines (SN B200000100 through B200001526)	A-C
101		Ref	Kit, Platform Box Shield Options:	
101	0273841	NLA	USA Built Machines (Use p/n 1001118215) (SN 0200152825 through 0200202717)	
101	1001118215		All Belgium Machines	
101	0273841	NLA	China Machines (Use p/n 1001118215) (SN B200000100 through B200001526)	
101	1001118215		USA Built Machines (SN 0200202718 through 0200198014)	
101A	0760808	4	Bolt M8 x 16mm	
101B	1380159	4	Clip, Cover Mounting	
101C	See Note	NSS	Cover, Platform Box (Note: Use Item 101)	
101D	3290805	4	Locknut M8	
	0274386	Ref	PLATFORM BOX HANGER INSTALLATION (OPTIONAL)	C
201	3290405	2	Locknut M4	
202	3575794	1	Plate, Bracket	
203	3900338	2	Screw M4 x 20mm	
204	4811400	4	Flatwasher M4	

SECTION 4 - PLATFORM

FIGURE 4-7. DRIVE/STEER CONTROLLER ASSEMBLY



SECTION 4 - PLATFORM

FIGURE 4-7. DRIVE/STEER CONTROLLER ASSEMBLY

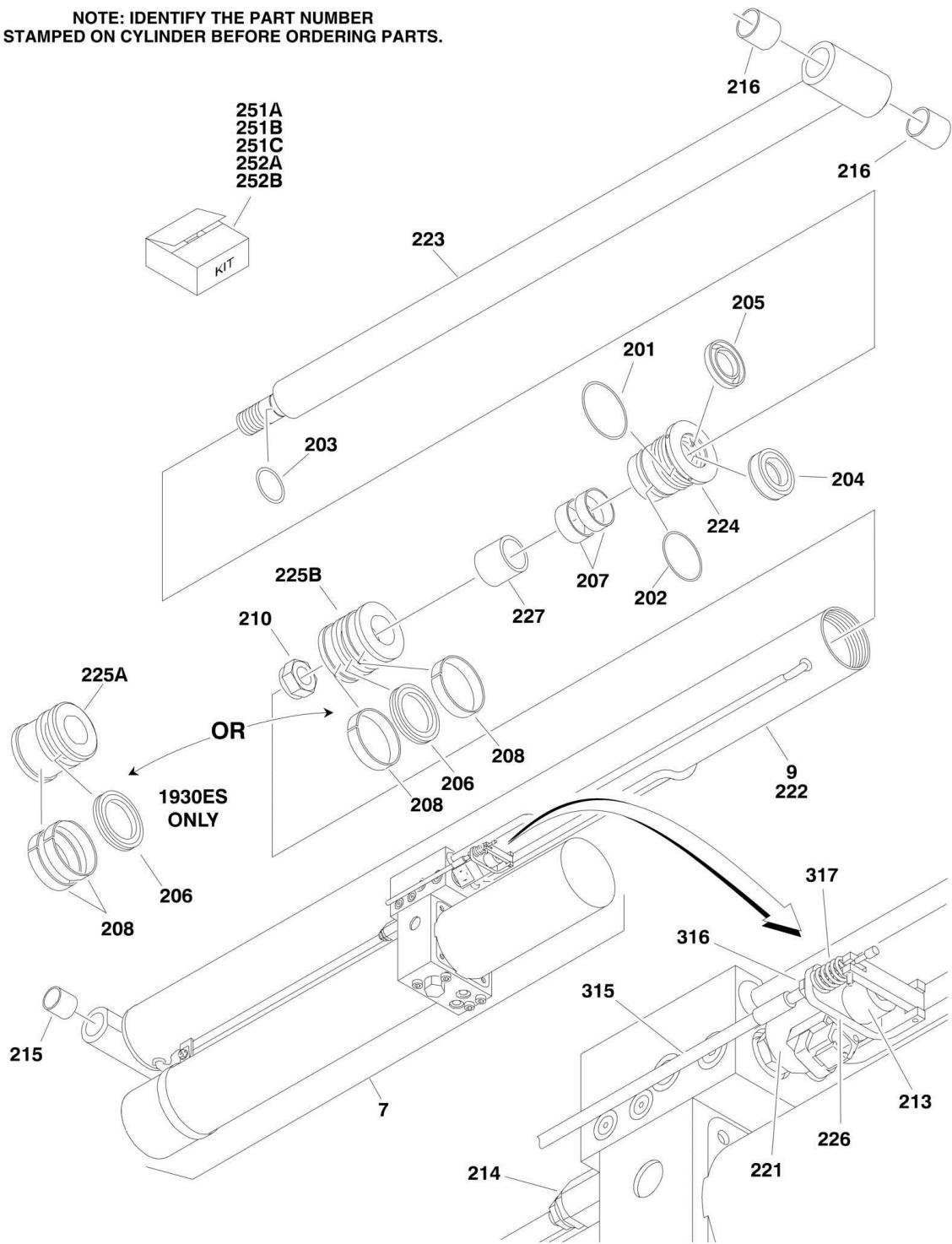
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1600402	Ref	DRIVE/STEER CONTROLLER ASSEMBLY	
	See Note	Ref	Note: Use p/n 1001134438 as replacement	
1	70001250	1	Boot, Panel	A
2	70001252	1	Gasket, Mounting	
2	70001251	1	Bezel, Mounting	
3	70003650	1	Handle Repair Kit (Includes handle gasket, Item #4 push button 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	

SECTION 5 - CYLINDER

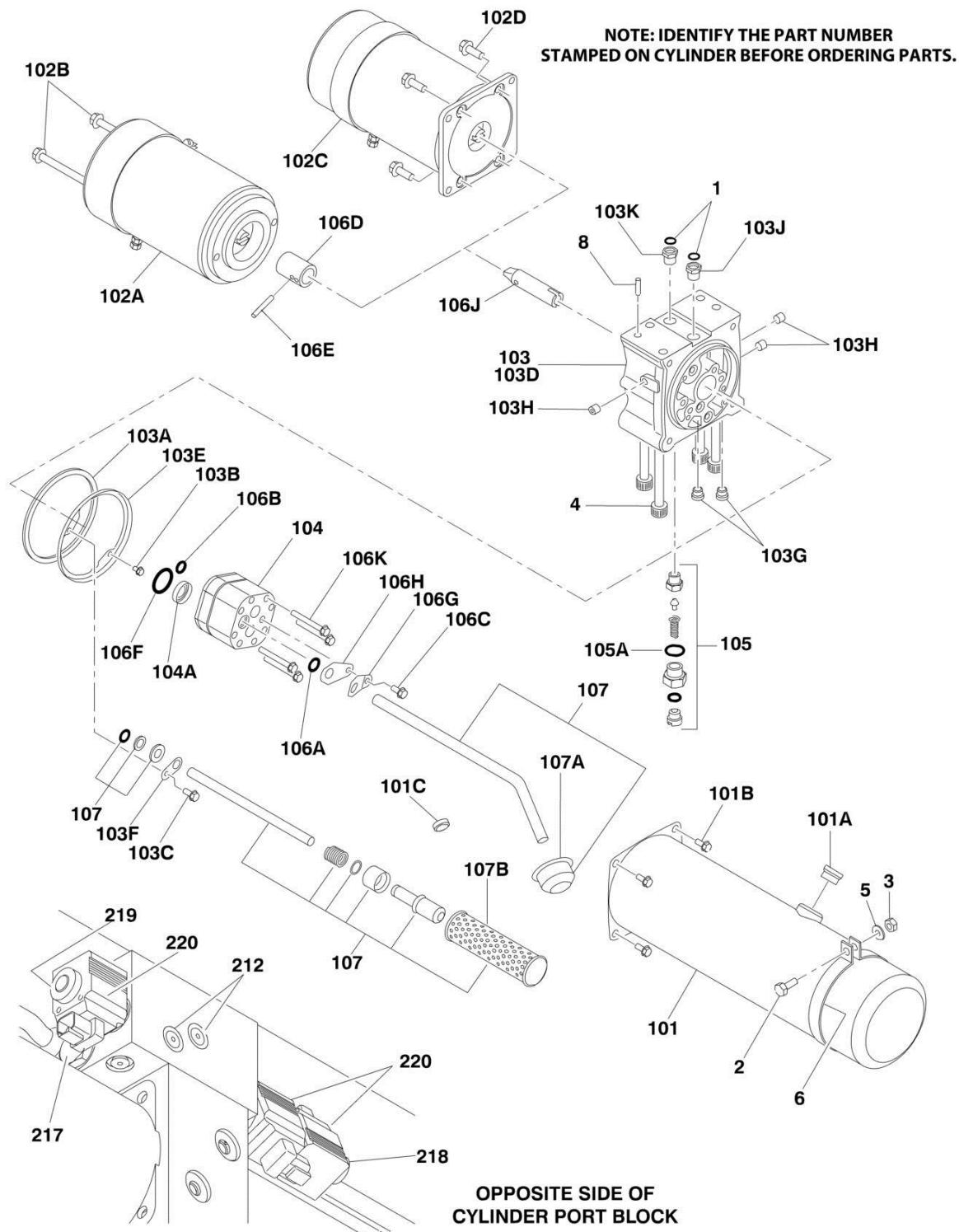
SECTION 5 - CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY (TEXAS HYDRAULICS)

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



SECTION 5 - CYLINDER



SECTION 5 - CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY (TEXAS HYDRAULICS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LIFT CYLINDER ASSEMBLY (TEXAS HYDRAULIC)	
	1684484	Ref	Lift Cylinder Assembly 1930ES with Standard Hydraulic Oil	H
	1684526	Ref	Lift Cylinder Assembly 1930ES with Biodegradeable Hydraulic Oil	G
	1684487	Ref	Lift Cylinder Assembly 2030ES with Standard Hydraulic Oil	H
	1684527	Ref	Lift Cylinder Assembly 2030ES with Biodegradeable Hydraulic Oil	G
	1684488	Ref	Lift Cylinder Assembly 2630ES with Standard Hydraulic Oil	H
	1684528	Ref	Lift Cylinder Assembly 2630ES with Biodegradeable Hydraulic Oil	G
	1684489	Ref	Lift Cylinder Assembly 2646ES with Standard Hydraulic Oil	H
	1684529	Ref	Lift Cylinder Assembly 2646ES with Biodegradeable Hydraulic Oil	G
	1684490	Ref	Lift Cylinder Assembly 3246ES with Standard Hydraulic Oil	H
	1684530	Ref	Lift Cylinder Assembly 3246ES with Biodegradeable Hydraulic Oil	G
1	7023577	2	O-Ring	
2	See Note	NSS	Capscrew (All except 1930ES Models) (Note: Purchase Locally)	
3	See Note	NSS	Locknut (All except 1930ES Models) (Note: Purchase Locally)	
4	7023589	4	Capscrew	
5	See Note	NSS	Flatwasher (All except 1930ES Models) (Note: Purchase Locally)	
6	7023539	1	Clamp (All except 1930ES Models)	
7		Ref	Power Pack Assembly - Complete Options (See Items 101-107B for Breakdown):	
7	7023558	1	Power Pack Assembly - Complete 1930ES	
7	7023549	1	Power Pack Assembly - Complete 2030ES	
7	7023568	1	Power Pack Assembly - Complete 2630ES	
7	7023557	1	Power Pack Assembly - Complete 2646ES	
7	7023535	1	Power Pack Assembly - Complete 3246ES	
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	
	7023558	Ref	Power Pack Assembly - Complete 1930ES (1684484/1684526 Cylinders)	
	7023549	Ref	Power Pack Assembly - Complete 2030ES (1684487/1684527 Cylinders)	
	7023568	Ref	Power Pack Assembly - Complete 2630ES (1684488/1684528 Cylinders)	
	7023557	Ref	Power Pack Assembly - Complete 2646ES (1684489/1684529 Cylinders)	
	7023535	Ref	Power Pack Assembly - Complete 3246ES (1684490/1684530 Cylinders)	
101		Ref	Tank Kit Options (Note: Includes Tank and Items 101A-101C):	
101	7023569	1	Tank Kit 1930ES	
101	7023587	1	Tank Kit 2030ES	
101	7023585	1	Tank Kit 2630ES	
101	7023578	1	Tank Kit 2646ES	
101	7023583	1	Tank Kit 3246ES	
101A	7023593	1	Plug, Fill	
101B	See Note	NSS	Screw (Note: Use Item 101)	

SECTION 5 - CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101C	See Note	NSS	Magnet (Note: Use Item 101)	
102		Ref	Motor Options:	
102A	7023570	1	Motor 1930ES/2030ES/2630ES Motor	
102A	70000658	1	Brush Kit - 7023570 Motor	
102B	See Note	NSS	Screw (Note: Purchase Locally)	
102C	7023579	1	Motor 2646ES/3246ES Motor	
102C	70000659	1	Brush Kit - 7023579 Motor	
102D	See Note	NSS	Screw (Note: Purchase Locally)	
102D	See Note	NSS	Washer (Note: Purchase Locally)	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring	
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	NSS	Seal (Note: Use Item 252A or 252B)	
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		Ref	Pump Options: (Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump)	
104	7023572	1	Pump 1930ES/2630ES Pump	
104	7023588	1	Pump 2030ES Pump	
104	7023580	1	Pump 2646ES/3246ES Pump	
104A	See Note	1	Seal, Shaft (Note: Use Item 252A or 252B)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	See Note	NLA	Seal (Note: Use Item 7)	
106B	See Note	NSS	Seal (Note: Use Item 252A or 252B)	
106C	See Note	NLA	Screw (Note: Use Item 7)	
106D	See Note	NSS	Sleeve (1930ES/2030ES/2630ES Only) (Note: Use Item 106J)	
106E	See Note	NSS	Roll Pin (1930ES/2030ES/2630ES Only) (Note: Use Item 106J)	
106F	See Note	NSS	Seal (Note: Use Item 252A or 252B)	
106G	See Note	NLA	Tab, Locking (Note: Use Item 7)	
106H	See Note	NLA	Retainer, Tube (Note: Use Item 7)	
106J		Ref	Coupler Kit Options:	
106J	7023574	1	Coupler Kit 1930ES/2030ES/2630ES (Includes Items 106D & 106E)	
106J	7023581	1	Coupler Kit 2646ES/3246ES	
106K	See Note	NSS	Screw (Note: Use Item 7)	
107		Ref	Tube Kit Options:	
107	7023575	1	Tube Kit 1930ES	
107	7023586	1	Tube Kit 2030ES/2630ES	
107	7023582	1	Tube Kit 2646ES	
107	7023584	1	Tube Kit 3246ES	
107A	See Note	NSS	Strainer (Note: Use Item 107)	
107B	7023576	1	Filter Element (Includes Seal)	
201	See Note	NSS	CYLINDER ASSEMBLY ONLY COMPONENTS	
			O-Ring (Note: Use Item 251A or 251B)	

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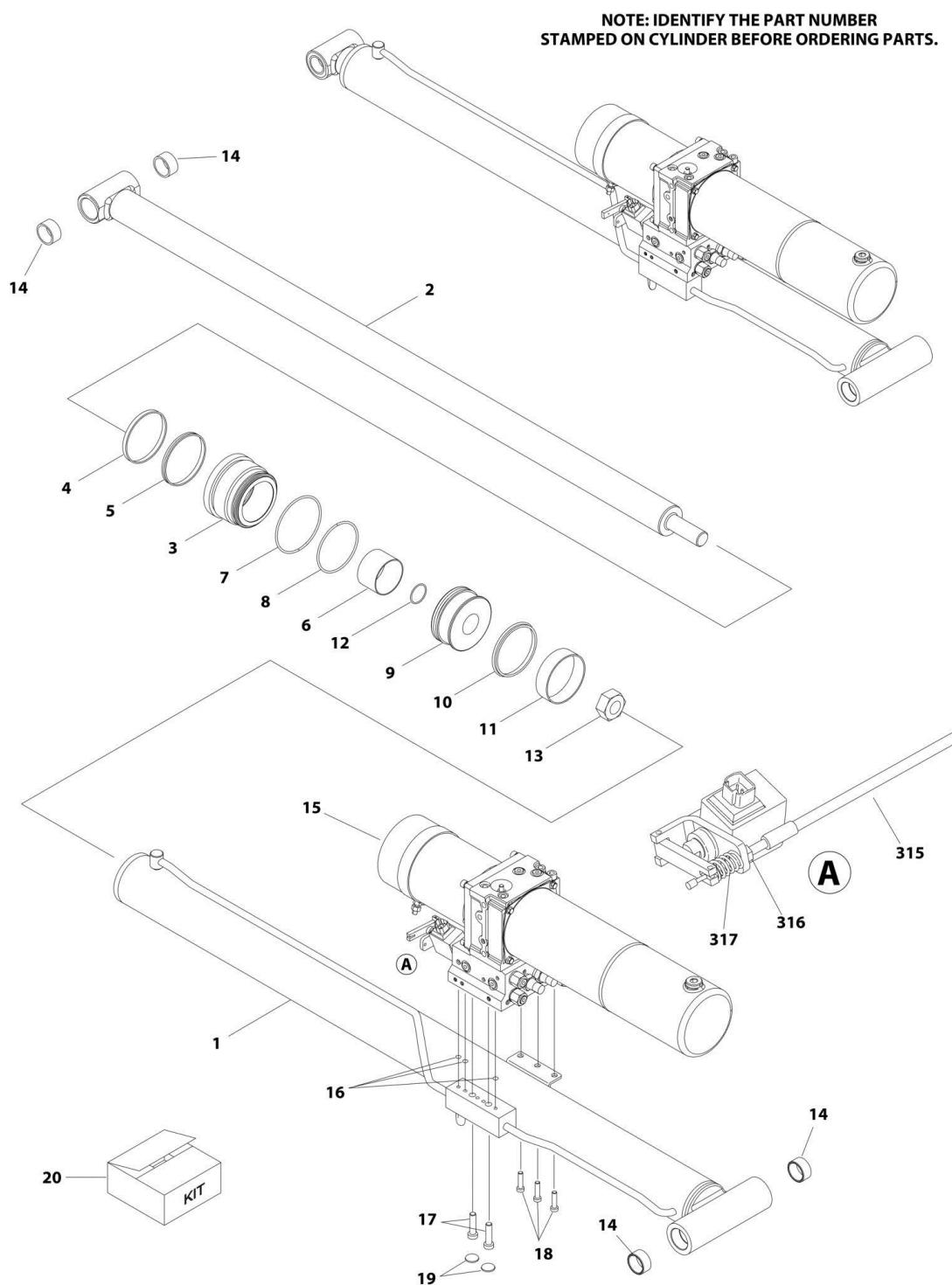
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
202	See Note	NSS	O-Ring (Note: Use Item 251A or 251B)	
203	See Note	NSS	O-Ring (Note: Use Item 251A or 251B)	
204	See Note	NSS	Seal (Note: Use Item 251A or 251B)	
205	See Note	NSS	Wiper (Note: Use Item 251A or 251B)	
206	See Note	NSS	Seal (Note: Use Item 251A or 251B) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	NSS	Ring, Wear (Note: Use Item 251A or 251B)	
208	See Note	NSS	Ring, Wear (Note: Use Item 251A or 251B)	
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		Ref	Bushing Options:	
215	0962257	2	Bushing 1930ES/2030ES/2630ES	
215	0962006	2	Bushing 2646ES/3246ES	
216		Ref	Bushing Options:	
216	0962257	2	Bushing 1930ES/2030ES/2630ES	
216	0962181	2	Bushing 2646ES/3246ES	
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		Ref	Barrel Options:	
222	7023553	1	Barrel 1930ES	
222	7023548	1	Barrel 2030ES/2630ES	
222	7023556	1	Barrel 2646ES	
222	7023534	1	Barrel 3246ES	
223		Ref	Rod Options:	
223	7023552	1	Rod 1930ES	
223	7023547	1	Rod 2030ES/2630ES	
223	7023533	1	Rod 2646ES/3246ES	
224		Ref	Head Options:	
224	7023551	1	Head 1930ES	
224	7023546	1	Head 2030ES/2630ES	
224	7023532	1	Head 2646ES/3246ES	
225		Ref	Piston Options:	
225A	7023550	1	Piston 1930ES	
225B	7023545	1	Piston 2030ES/2630ES	
225B	7023531	1	Piston 2646ES/3246ES	
226	7023530		Emergency Release Assembly	
227	Not Required	Ref	Spacer Options:	
227	7023529	0	Spacer 1930ES/2646ES	
227	7023529	1	Spacer 3246ES	
		Ref	SEAL KIT OPTIONS	
251		Ref	Seal Kit - Cylinder Options (Includes Items 201-208):	
251A	7023554	1	Seal Kit - Cylinder 1930ES	
251B	7023544	1	Seal Kit - Cylinder 2030ES/2630ES	
251C	7023528	1	Seal Kit - Cylinder 2646ES/3246ES	
252		Ref	Seal Kit - Reservoir/Pump Options (Includes 103A, 103E, 104A, 106B & 106F):	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
252A	70001709	1	Seal Kit 1930ES/2030ES/2630ES	
252B	70001982	1	Seal Kit 2646ES/3246ES	
	0274874	Ref	MANUAL DESCENT COMPONENTS	
	0275692	Ref	Manual Descent Components 1930ES with Standard Hydraulic Oil	G
	0275016	Ref	Manual Descent Components 2030ES with Standard Hydraulic Oil	E
	0275693	Ref	Manual Descent Components 2030ES with Biodegradeable Hydraulic Oil	E
	0275017	Ref	Manual Descent Components 2630ES with Standard Hydraulic Oil	G
	0275694	Ref	Manual Descent Components 2630ES with Biodegradeable Hydraulic Oil	E
	0274881	Ref	Manual Descent Components 2646ES with Standard Hydraulic Oil	F
	0275695	Ref	Manual Descent Components 2646ES with Biodegradeable Hydraulic Oil	E
	0274879	Ref	Manual Descent Components 3246ES with Standard Hydraulic Oil	F
	0275696	Ref	Manual Descent Components 3246ES with Biodegradeable Hydraulic Oil	E
315		Ref	Cable, Pull Options:	
315	1061036	1	Cable, Pull 1930ES - 9ft/2.74m Length	
315	1061034	1	Cable, Pull 2030ES/2630ES - 12.5ft/3.81m Length	
315	1061034	1	Cable, Pull 2646ES/3246ES - 12.5ft/3.81m Length	
315	7020218	1	T-Handle (With 1/4in-20 Threads)	
315	70001878	1	T-Handle (With 5mm Threads)	
316	3321402	1	Nut, Jam 1/4in-18NF	
317	4160078	1	Spring	

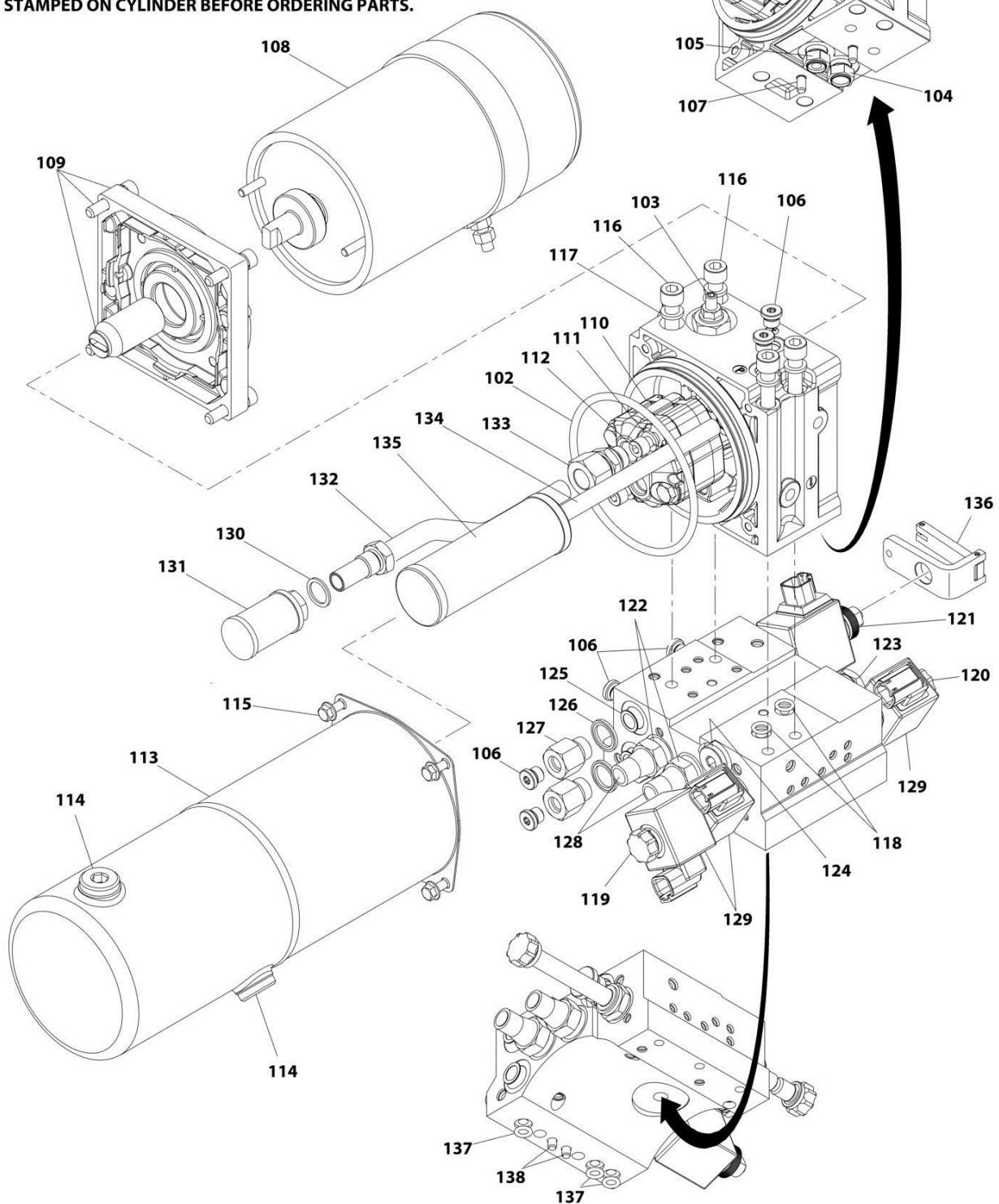
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FIGURE 5-2. LIFT CYLINDER ASSEMBLY (SH-PAC)



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



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FIGURE 5-2. LIFT CYLINDER ASSEMBLY (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129288	Ref	LIFT CYLINDER ASSEMBLY (SH-PAC)	
	1001131033	Ref	Lift Cylinder Assembly 1930ES with Standard Hydraulic Oil	E
	1001131033	Ref	Lift Cylinder Assembly 1930ES with Biodegradeable Hydraulic Oil	E
	1001129289	Ref	Lift Cylinder Assembly 2030ES with Standard Hydraulic Oil	E
	1001131034	Ref	Lift Cylinder Assembly 2030ES with Biodegradeable Hydraulic Oil	E
	1001129290	Ref	Lift Cylinder Assembly 2630ES with Standard Hydraulic Oil	E
	1001131035	Ref	Lift Cylinder Assembly 2630ES with Biodegradeable Hydraulic Oil	E
	1001129291	Ref	Lift Cylinder Assembly 2646ES with Standard Hydraulic Oil	D
	1001131036	Ref	Lift Cylinder Assembly 2646ES with Biodegradeable Hydraulic Oil	E
	1001129292	Ref	Lift Cylinder Assembly 3246ES with Standard Hydraulic Oil	E
	1001131037	Ref	Lift Cylinder Assembly 3246ES with Biodegradeable Hydraulic Oil	E
1	70004620	1	Barrel - 1930ES	
1	70004628	1	Barrel - 2030ES/2630ES	
1	70004634	1	Barrel - 2646ES	
1	70004641	1	Barrel - 3246ES	
2	70004621	1	Rod - 1930ES	
2	70004629	1	Rod - 2030ES/2630ES	
2	70004635	1	Rod - 2646ES/3246ES	
3	70004622	1	Head, Cylinder - 1930ES	
3	70004630	1	Head, Cylinder - 2030ES/2630ES	
3	70004636	1	Head, Cylinder - 2646ES/3246ES	
4	See Note	NSS	Seal, Dust (Note: Use Item 20)	
5	See Note	NSS	Seal (Note: Use Item 20)	
6	70004237	1	Bearing - 1930ES	
6	70004631	1	Bearing - 2030ES/2630ES	
6	70004637	1	Bearing - 22646ES/3246ES	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	O-Ring (Note: Use Item 20)	
9	70004623	1	Piston - 1930ES	
9	70004632	1	Piston - 2030ES/2630ES	
9	70004638	1	Piston - 2646ES/3246ES	
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	0962257	4	Bushing - 1930ES/2030ES/2630ES	
14	0962181	2	Bushing (Rod End) - 2646ES/3246ES	
14	0962006	2	Bushing (Barrel End) - 2646ES/3246ES	
15		Ref	Motor/Pump/Tank Assembly Options (See Items 102-138 for Breakdown):	
15	70004938	1	Motor/Pump/Tank Assembly - 1930ES	
15	70004943	1	Motor/Pump/Tank Assembly - 2030ES	
15	70004945	1	Motor/Pump/Tank Assembly - 2630ES	
15	70004949	1	Motor/Pump/Tank Assembly - 2646ES	
15	70004953	1	Motor/Pump/Tank Assembly - 3246ES	
16	See Note	1	O-Ring (Note: Use Item 20)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17	70004624	2	Capscrew M10 x 40 - 1930ES/2030ES/2630ES	
17	70004639	2	Capscrew M10 x 50 - 2646ES/3246ES	
18	70004625	3	Capscrew M8 x 20	
19	70004626	2	Plug, Extension	
20		Ref	Seal Kit - Cylinder Options (Includes Items 4, 5, 7, 8, 10, 11, 12 & 16):	
20	70004627	1	Seal Kit - 1930ES	
20	70004633	1	Seal Kit - 2030ES/2630ES	
20	70004640	1	Seal Kit - Cylinder - 2646ES/3246ES	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004938	Ref	Motor/Pump/Tank Assembly - 1930ES	
	70004943	Ref	Motor/Pump/Tank Assembly - 2030ES	
	70004945	Ref	Motor/Pump/Tank Assembly - 2630ES	
	70004949	Ref	Motor/Pump/Tank Assembly - 2646ES	
	70004953	Ref	Motor/Pump/Tank Assembly - 3246ES	
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	2220883	6	Plug	
107	70004918	2	Pin, Dowel	
108	See Note	NSS	Motor (Note: Not Available - Purchase Complete Assembly)	
109	See Note	1	Adapter Assembly (Includes Adapter Plate, Coupling and Attaching Hardware (Note: Not Available - Purchase Complete Assembly))	
110	70003693	1	Pump (Note: No Serviceable Parts Available - Purchase Complete Pump)	
111	70003694	2	Washer M8	
112	70004919	2	Capscrew M8 x 60	
113	70004920	1	Tank - 1930ES	
113	70004940	1	Tank - 2030ES	
113	70004944	1	Tank - 2630ES	
113	70004946	1	Tank - 2646ES	
113	70004950	1	Tank - 3246ES	
114	70004921	2	Plug	
115	70004922	4	Bolt M6 x 12	
116	70004923	4	Capscrew M10 x 140	
117	70004924	4	Washer M10	
118	70004925	2	O-Ring	
119	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
120	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
121	70004978	1	Cartridge, Solenoid Valve (Platform Lowering)	
122	70004927	2	Cartridge, Valve (Steer Relief)	
123	70004585	1	Cartridge, Valve (Lift Check)	
124	70004928	1	Filter 300 micron	
125	70003706	2	Filter 300 micron	
126	70003704	2	Seal	
127	70004929	2	Fitting, Straight BSPP/UNF	
128	See Note	2	Cap	
129	70003707	3	Coil	
130	70004930	1	Ring, Copper	
131	70004931	1	Strainer, Suction	

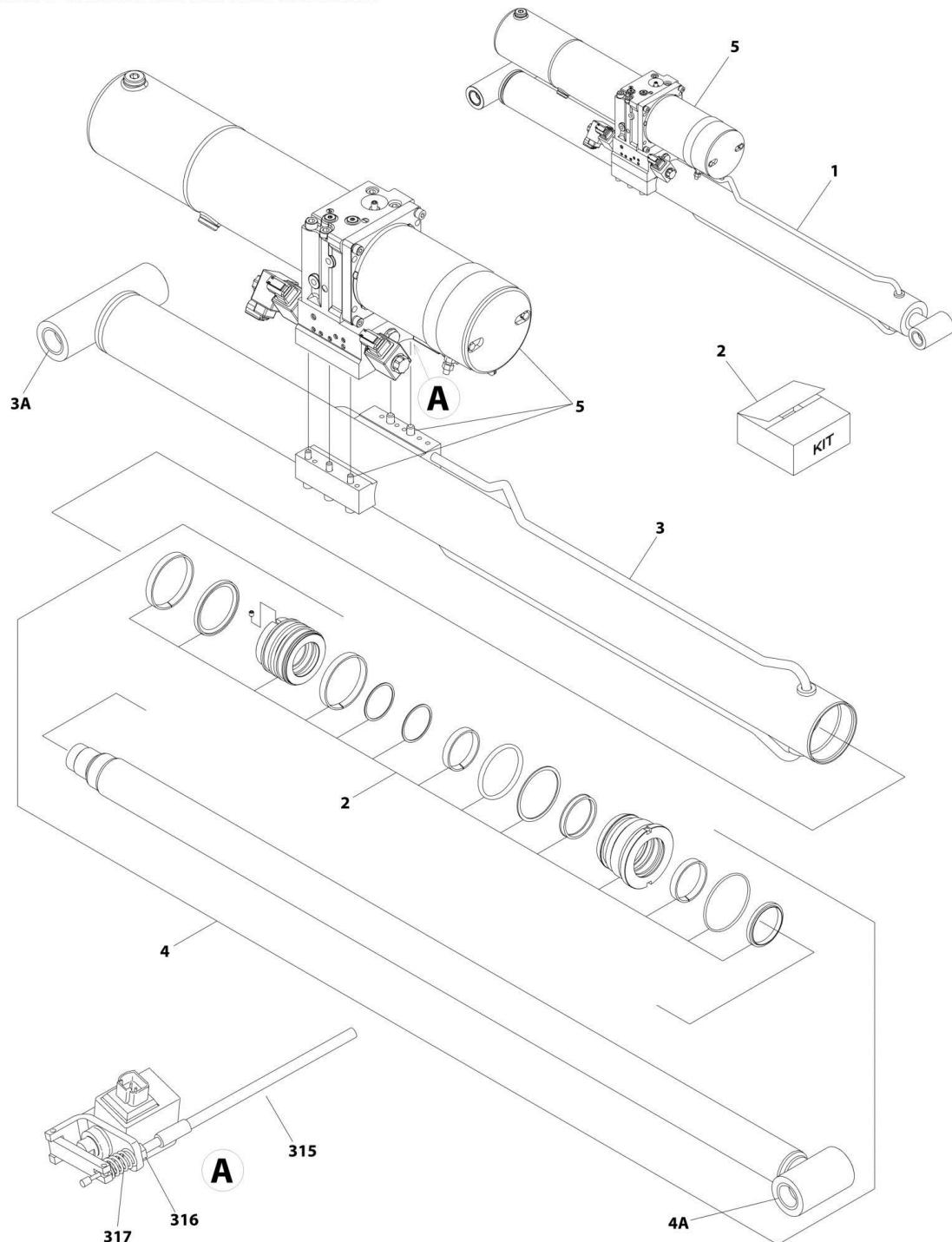
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
132	70004932	1	Pipe, Suction - 1930ES	
132	70004941	1	Pipe, Suction - 2030ES/2630ES	
132	70004947	1	Pipe, Suction - 2646ES	
132	70004951	1	Pipe, Suction - 3246ES	
133	70004933	1	Fitting	
134	70004934	1	Pipe, Return - 1930ES	
134	70004942	1	Pipe, Return - 2030ES/2630ES	
134	70004948	1	Pipe, Return - 2646ES	
134	70004952	1	Pipe, Return - 3246ES	
135	70004935	1	Filter, Bypass	
136	70004979	1	Platform Lowering Kit	
137	70004936	3	O-Ring	
138	70004937	2	Pin, Dowel	
		Ref	MANUAL DESCENT COMPONENTS	
	1001131004	Ref	Manual Descent Components 1930ES with Standard Hydraulic Oil	B
	1001131009	Ref	Manual Descent Components 1930ES with Biodegradeable Hydraulic Oil	B
	1001131005	Ref	Manual Descent Components 2030ES with Standard Hydraulic Oil	D
	1001131010	Ref	Manual Descent Components 2030ES with Biodegradeable Hydraulic Oil	B
	1001131006	Ref	Manual Descent Components 2630ES with Standard Hydraulic Oil	B
	1001131011	Ref	Manual Descent Components 2630ES with Biodegradeable Hydraulic Oil	B
	1001131007	Ref	Manual Descent Components 2646ES with Standard Hydraulic Oil	E
	1001131012	Ref	Manual Descent Components 2646ES with Biodegradeable Hydraulic Oil	B
	1001131008	Ref	Manual Descent Components 3246ES with Standard Hydraulic Oil	B
	1001131013	Ref	Manual Descent Components 3246ES with Biodegradeable Hydraulic Oil	B
315		Ref	Cable, Pull Options:	
315	1061036	1	Cable, Pull 1930ES - 9ft/2.74m Length	
315	1061034	1	Cable, Pull 2030ES/2630ES - 12.5ft/3.81m Length	
315	1061034	1	Cable, Pull 2646ES/3246ES - 12.5ft/3.81m Length	
315	7020218	1	T-Handle (With 1/4in-20 Threads)	
315	70001878	1	T-Handle (With 5mm Threads)	
316	3321402	1	Nut, Jam 1/4in-18NF	
317	4160078	1	Spring	

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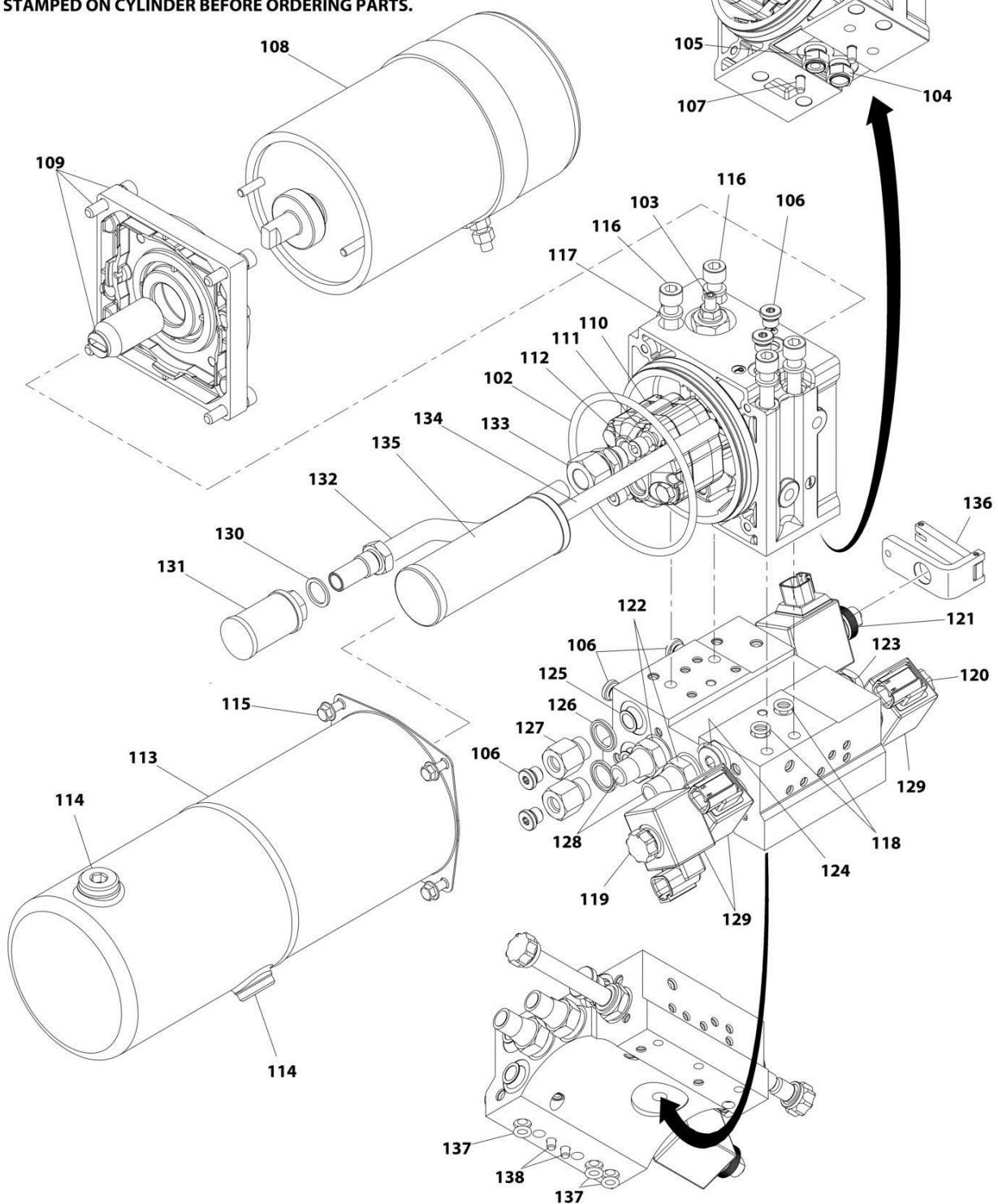
FIGURE 5-3. LIFT CYLINDER ASSEMBLY (SERTA)

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



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



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FIGURE 5-3. LIFT CYLINDER ASSEMBLY (SERTA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LIFT CYLINDER ASSEMBLY (SERTA)	
	1001155840	Ref	Lift Cylinder Assembly 1930ES with Standard Hydraulic Oil	C
	1001157329	Ref	Lift Cylinder Assembly 1930ES with Biodegradeable Hydraulic Oil	B
	1001155841	Ref	Lift Cylinder Assembly 2030ES with Standard Hydraulic Oil	C
	1001157330	Ref	Lift Cylinder Assembly 2030ES with Biodegradeable Hydraulic Oil	B
	1001155842	Ref	Lift Cylinder Assembly 2630ES with Standard Hydraulic Oil	C
	1001157331	Ref	Lift Cylinder Assembly 2630ES with Biodegradeable Hydraulic Oil	B
	1001155843	Ref	Lift Cylinder Assembly 2646ES with Standard Hydraulic Oil	B
	1001157332	Ref	Lift Cylinder Assembly 2646ES with Biodegradeable Hydraulic Oil	C
	1001155844	Ref	Lift Cylinder Assembly 3246ES with Standard Hydraulic Oil	B
	1001157333	Ref	Lift Cylinder Assembly 3246ES with Standard Hydraulic Oil	C
1		Ref	Cylinder Assembly Less Powerpack Options:	
1	70004721	1	Cylinder Assembly Less Powerpack - 1930ES	
1	70004725	1	Cylinder Assembly Less Powerpack - 2030ES	
1	70004729	1	Cylinder Assembly Less Powerpack - 2630ES	
1	70004733	1	Cylinder Assembly Less Powerpack - 2646ES	
1	70004737	1	Cylinder Assembly Less Powerpack - 3246ES	
2		Ref	Seal Kit Options:	
2	70004720	1	Seal Kit - 1930ES	
2	70004724	1	Seal Kit - 2030ES	
2	70004728	1	Seal Kit - 2630ES	
2	70004732	1	Seal Kit - 2646ES	
2	70004736	1	Seal Kit - 3246ES	
3		Ref	Barrel Options (Includes Item 3A):	
3	70004719	1	Barrel - 1930ES	
3	70004723	1	Barrel - 2030ES	
3	70004727	1	Barrel - 2630ES	
3	70004731	1	Barrel - 2646ES	
3	70004735	1	Barrel - 3246ES	
3A	0962257	2	Bushing - 1930ES/2030ES/2630ES	
3A	0962006	2	Bushing - 2646ES/3246ES	
4		Ref	Rod Assembly Options (Includes Items 2 & 4A):	
4	700004718	1	Rod - 1930ES	
4	70004722	1	Rod - 2030ES/2630ES	
4	70004730	1	Rod - 2646ES	
4	70004734	1	Rod - 3246ES	
4A	0962257	1	Bushing - 1930ES/2030ES/2630ES	
4A	0962181	2	Bushing - 2646ES/3246ES	
5		Ref	Motor/Pump/Tank Assembly Options (See Items 102-138 for Breakdown):	
5	70004938	1	Motor/Pump/Tank Assembly - 1930ES	
5	70004943	1	Motor/Pump/Tank Assembly - 2030ES	
5	70004945	1	Motor/Pump/Tank Assembly - 2630ES	
5	70004949	1	Motor/Pump/Tank Assembly - 2646ES	
5	70004953	1	Motor/Pump/Tank Assembly - 3246ES	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004938	Ref	Motor/Pump/Tank Assembly - 1930ES	

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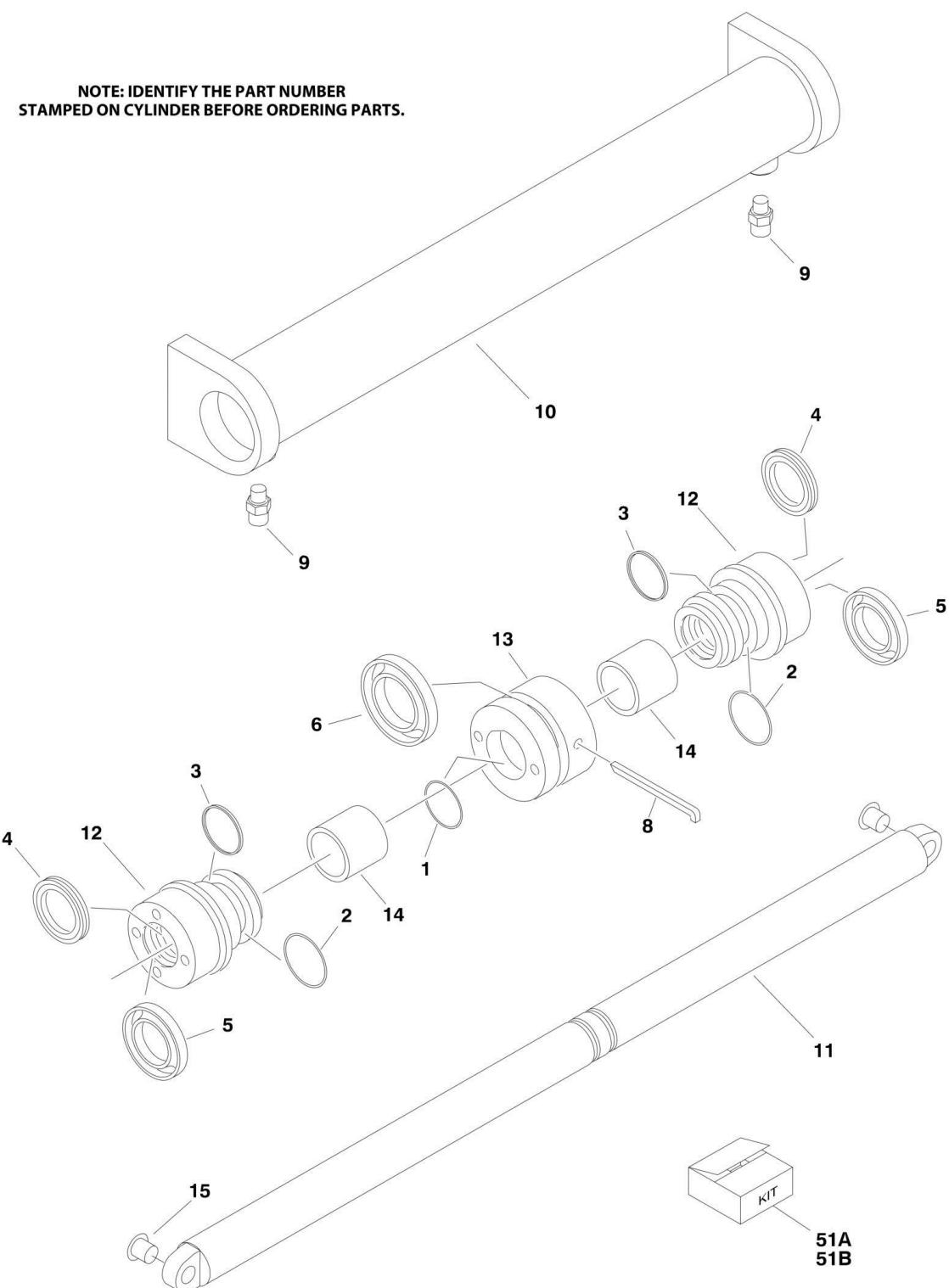
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70004943	Ref	Motor/Pump/Tank Assembly - 2030ES	
	70004945	Ref	Motor/Pump/Tank Assembly - 2630ES	
	70004949	Ref	Motor/Pump/Tank Assembly - 2646ES	
	70004953	Ref	Motor/Pump/Tank Assembly - 3246ES	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	2220883	6	Plug	
107	70004918	2	Pin, Dowel	
108	See Note	NSS	Motor (Note: Not Available - Purchase Complete Assembly)	
109	See Note	1	Adapter Assembly (Includes Adapter Plate, Coupling and Attaching Hardware (Note: Not Available - Purchase Complete Assembly))	
110	70003693	1	Pump (Note: No Serviceable Parts Available - Purchase Complete Pump)	
111	70003694	2	Washer M8	
112	70004919	2	Capscrew M8 x 60	
113	70004920	1	Tank - 1930ES	
113	70004940	1	Tank - 2030ES	
113	70004944	1	Tank - 2630ES	
113	70004946	1	Tank - 2646ES	
113	70004950	1	Tank - 3246ES	
114	70004921	2	Plug	
115	70004922	4	Bolt M6 x 12	
116	70004923	4	Capscrew M10 x 140	
117	70004924	4	Washer M10	
118	70004925	2	O-Ring	
119	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
120	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
121	See Note	1	Cartridge, Solenoid Valve (Platform Lowering) (Note: Cartridge and Coil Not Available at Time of Printing)	
122	70004927	2	Cartridge, Valve (Steer Relief)	
123	70004585	1	Cartridge, Valve (Lift Check)	
124	70004928	1	Filter 300 micron	
125	70003706	2	Filter 300 micron	
126	70003704	2	Seal	
127	70004929	2	Fitting, Straight BSPP/UNF	
128	See Note	2	Cap	
129	70003707	3	Coil	
130	70004930	1	Ring, Copper	
131	70004931	1	Strainer, Suction	
132	70004932	1	Pipe, Suction - 1930ES	
132	70004941	1	Pipe, Suction - 2030ES/2630ES	
132	70004947	1	Pipe, Suction - 2646ES	
132	70004951	1	Pipe, Suction - 3246ES	
133	70004933	1	Fitting	
134	70004934	1	Pipe, Return - 1930ES	
134	70004942	1	Pipe, Return - 2030ES/2630ES	
134	70004948	1	Pipe, Return - 2646ES	
134	70004952	1	Pipe, Return - 3246ES	
135	70004935	1	Filter, Bypass	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
136	See Note	NSS	Platform Lowering Kit (Note: Not Available for Purchase)	
137	70004936	3	O-Ring	
138	70004937	2	Pin, Dowel	
		Ref	MANUAL DESCENT COMPONENTS	
	1001157321	Ref	Manual Descent Components 1930ES with Standard Hydraulic Oil	A
	1001157339	Ref	Manual Descent Components 1930ES with Biodegradeable Hydraulic Oil	A
	1001157322	Ref	Manual Descent Components 2030ES with Standard Hydraulic Oil	A
	1001157340	Ref	Manual Descent Components 2030ES with Biodegradeable Hydraulic Oil	A
	1001157323	Ref	Manual Descent Components 2630ES with Standard Hydraulic Oil	A
	1001157336	Ref	Manual Descent Components 2630ES with Biodegradeable Hydraulic Oil	A
	1001157324	Ref	Manual Descent Components 2646ES with Standard Hydraulic Oil	A
	1001157342	Ref	Manual Descent Components 2646ES with Biodegradeable Hydraulic Oil	A
	1001157325	Ref	Manual Descent Components 3246ES with Standard Hydraulic Oil	B
	1001157343	Ref	Manual Descent Components 3246ES with Biodegradeable Hydraulic Oil	A
315		Ref	Cable, Pull Options:	
315	1061036	1	Cable, Pull 1930ES - 9ft/2.74m Length	
315	1061034	1	Cable, Pull 2030ES/2630ES - 12.5ft/3.81m Length	
315	1061034	1	Cable, Pull 2646ES/3246ES - 12.5ft/3.81m Length	
315	7020218	1	T-Handle (With 1/4in-20 Threads)	
315	70001878	1	T-Handle (With 5mm Threads)	
316	3321402	1	Nut, Jam 1/4in-18NF	
317	4160078	1	Spring	

SECTION 5 - CYLINDER

FIGURE 5-4. STEER CYLINDER ASSEMBLY (TEXAS HYDRAULICS)



SECTION 5 - CYLINDER

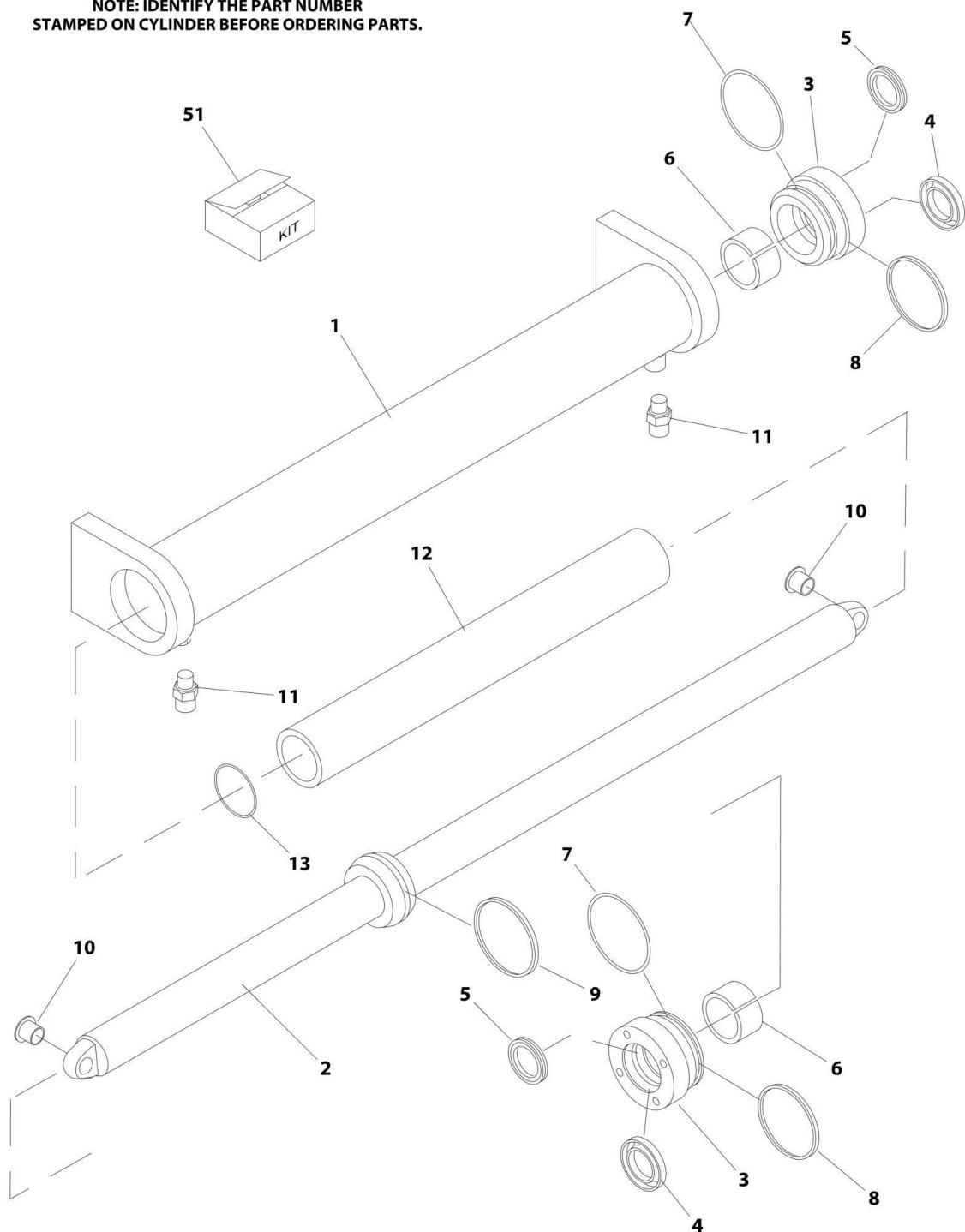
FIGURE 5-4. STEER CYLINDER ASSEMBLY (TEXAS HYDRAULICS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	STEER CYLINDER ASSEMBLY	
	1684237	Ref	Steer Cylinder Assembly 1930ES/2030ES/2630ES	K
	1684456	Ref	Steer Cylinder Assembly 2646ES/3246ES	H
1	See Note	1	O-Ring (Note: Use Item 51A or 51B)	
2	See Note	2	O-Ring (Note: Use Item 51A or 51B)	
3	See Note	2	Ring, Back-up (Note: Use Item 51A or 51B)	
4	See Note	2	Seal (Note: Use Item 51A or 51B)	
5	See Note	2	Wiper (Note: Use Item 51A or 51B)	
6	See Note	1	Seal (Note: Use Item 51A or 51B)	
8	7023564	1	Ring, Retaining	
9	2110404	2	Fitting, Straight Adapter	
10		Ref	Tube Assembly Options:	
10	7023563	1	Tube Assembly 1930ES/2030ES/2630ES	
10	70000108	1	Tube Assembly 2646ES/3246ES	
11		Ref	Rod Options:	
11	7023562	1	Rod 1930ES/2030ES/2630ES	
11	70000110	1	Rod 2646ES/3246ES	
12	7023561	2	Head	
13	7023560	1	Piston	
14		Ref	Spacer Options:	
14	Not Required	0	Spacer 1930ES/2030ES/2630ES	
14	7023565	2	Spacer 2646ES/3246ES	
15	0440259	2	Bushing	
51		Ref	Seal Kit - Cylinder Options (Includes Items 1-6):	
51A	7023559	1	Seal Kit - Cylinder 1930ES/2030ES/2630ES	
51B	70000107	1	Seal Kit - Cylinder 2646ES/3246ES	

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

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



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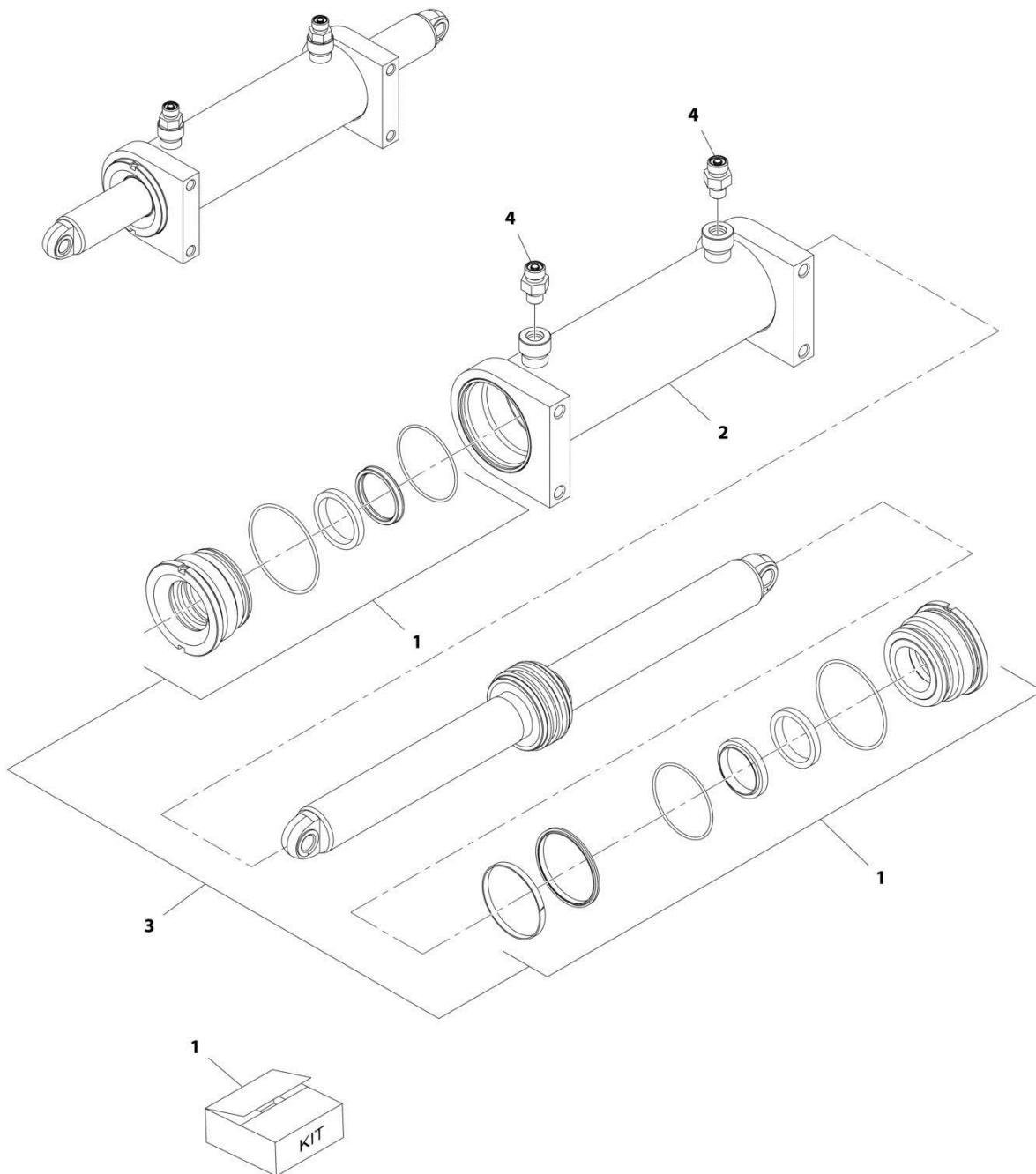
FIGURE 5-5. STEER CYLINDER ASSEMBLY (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			STEER CYLINDER ASSEMBLY	
	1001129267	Ref	Steer Cylinder Assembly 1930ES/2030ES/2630ES	C
	1001129268	Ref	Steer Cylinder Assembly 2646ES/3246ES	D
1		Ref	Tube Assembly Options:	
1	70004245	1	Tube Assembly 1930ES/2030ES/2630ES	
1	70004243	1	Tube Assembly 2646ES/3246ES	
2		Ref	Rod Options:	
2	70004244	1	Rod 1930ES/2030ES/2630ES	
2	70004242	1	Rod 2646ES/3246ES	
3	70004241	2	Head	
4	See Note	2	Wiper (Note: Use Item 51)	
5	See Note	2	Seal (Note: Use Item 51)	
6	See Note	2	Ring, Wear (Note: Use Item 51)	
7	See Note	2	O-Ring (Note: Use Item 51)	
8	See Note	2	Ring, Back-up (Note: Use Item 51)	
9	See Note	1	Seal (Note: Use Item 51)	
10	0440259	2	Bushing	
11	2110404	2	Fitting, Straight Adapter	
12		Ref	Spacer Options:	
12	Not Required	0	Spacer 1930ES/2030ES/2630ES	
12	70004240	1	Spacer 2646ES/3246ES	
13		Ref	O-Ring Options:	
13	Not Required	0	O-Ring 1930ES/2030ES/2630ES	
13	See Note	1	O-Ring 2646ES/3246ES (Note: Use Item 51)	
51	70004239	1	Seal Kit - Cylinder (Includes Items 4-9 & 13)	

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FIGURE 5-6. STEER CYLINDER ASSEMBLY (SERTA)

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



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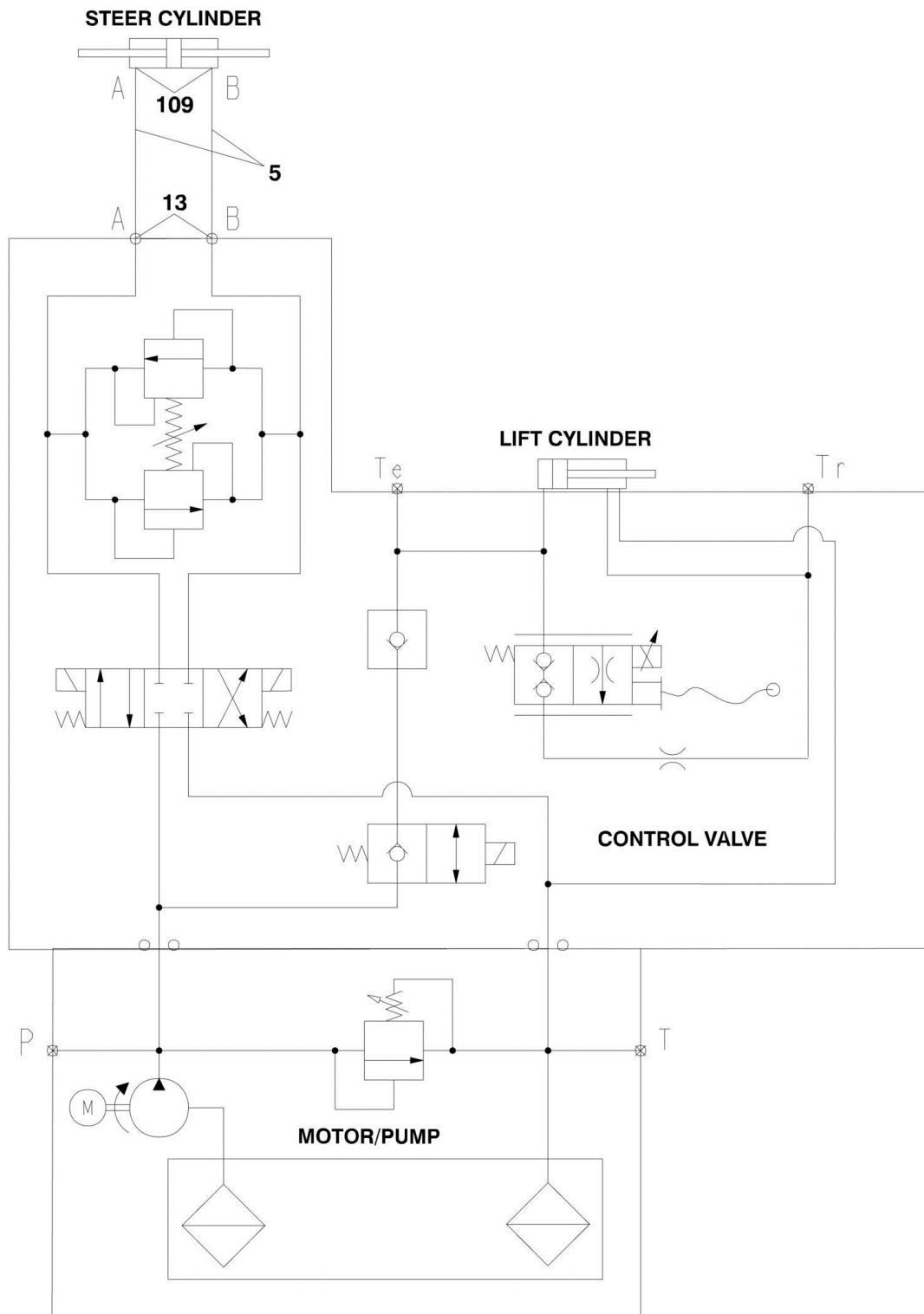
FIGURE 5-6. STEER CYLINDER ASSEMBLY (SERTA)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001155850	Ref	STEER CYLINDER ASSEMBLY (1930ES/2030ES/2630ES) (SERTA)	B
	1001155851	Ref	STEER CYLINDER ASSEMBLY (2646ES/3246ES) (SERTA)	B
1	70004779	1	Seal Kit - Cylinder - 1930ES/2030ES/2630ES	
1	70004784	1	Seal Kit - Cylinder - 2646ES/3246ES	
2	70004781	1	Barrel, Cylinder - 1930ES/2030ES/2630ES	
2	70004783	1	Barrel, Cylinder - 2646ES/3246ES	
3	70004780	1	Rod, Cylinder - 1930ES/2030ES/2630ES	
3	70004782	1	Rod, Cylinder - 2646ES/3246ES	
4	2110404	2	Fitting, Straight ORFS/ORB	

SECTION 6 - HYDRAULIC

SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM



SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HYDRAULIC COMPONENTS	
		Ref	USA Built Machines:	
	0272371	Ref	Steer Hydraulics (1930ES) (SN 0200198014 through 0200226776)	L
	1001157326	Ref	Steer Hydraulics (1930ES) (SN 0200226777 through 0200227794)	B
	1001131074	Ref	Steer Hydraulics (1930ES) (SN 0200227795 through 0200237861)	E
	1001157326	Ref	Steer Hydraulics (1930ES) (SN 0200237862 through 0200239381)	B
	0273227	Ref	Steer Hydraulics (2030ES/2630ES) (SN 0200198014 through 0200226776)	J
	1001157327	Ref	Steer Hydraulics (2030ES/2630ES) (SN 0200226777 through 0200227794)	B
	1001131075	Ref	Steer Hydraulics (2030ES/2630ES) (SN 0200227795 through 0200237861)	D
	1001157327	Ref	Steer Hydraulics (2030ES/2630ES) (SN 0200237862 through 0200239381)	B
	0274546	Ref	Steer Hydraulics (2646ES/3246ES) (SN 0200198014 through 0200226776)	G
	1001157328	Ref	Steer Hydraulics (2646ES/3246ES) (SN 0200226777 through 0200228265)	B
	1001131076	Ref	Steer Hydraulics (2646ES/3246ES) (SN 0200228266 through 0200237861)	E
	1001157328	Ref	Steer Hydraulics (2646ES/3246ES) (SN 0200237862 through 0200239381)	B
		Ref	China Built Machines:	
	0272371	Ref	Steer Hydraulics (1930ES) (SN B200000100 through B200014592)	L
	1001131074	Ref	Steer Hydraulics (1930ES) (SN B200014593 through B200020296)	E
	0273227	Ref	Steer Hydraulics (2030ES/2630ES) (SN B200000100 through B200014592)	J
	1001131075	Ref	Steer Hydraulics (2030ES/2630ES) (SN B200014593 to Present)	D
	0274546	Ref	Steer Hydraulics (2646ES/3246ES) (SN B200000100 through B200014592)	G
	1001131076	Ref	Steer Hydraulics (2646ES/3246ES) (SN B200014593 through B200020296)	E
		Ref	Hydraulic Schematic	
	2792599	Ref	USA Built Machines:	F
		Ref	China Built Machines:	
	2792599	Ref	China Built Machines (SN B200000100 through B200014592)	F
	1001143663	Ref	China Built Machines 1930ES/2646ES/3246ES (SN B200014593 through B200020296)	B
	1001143663	Ref	China Built Machines 2030ES/2630ES (SN B200014593 to Present)	B
5		Ref	Hose Options:	
5	2755056	2	Hose 1930ES	
5	1001113888	2	Hose 2030ES/2630ES	
5	2753883	2	Hose 2646ES/3246ES	
13	2110404	2	Fitting, Straight	
		Ref	STEER CYLINDER ASSEMBLY	

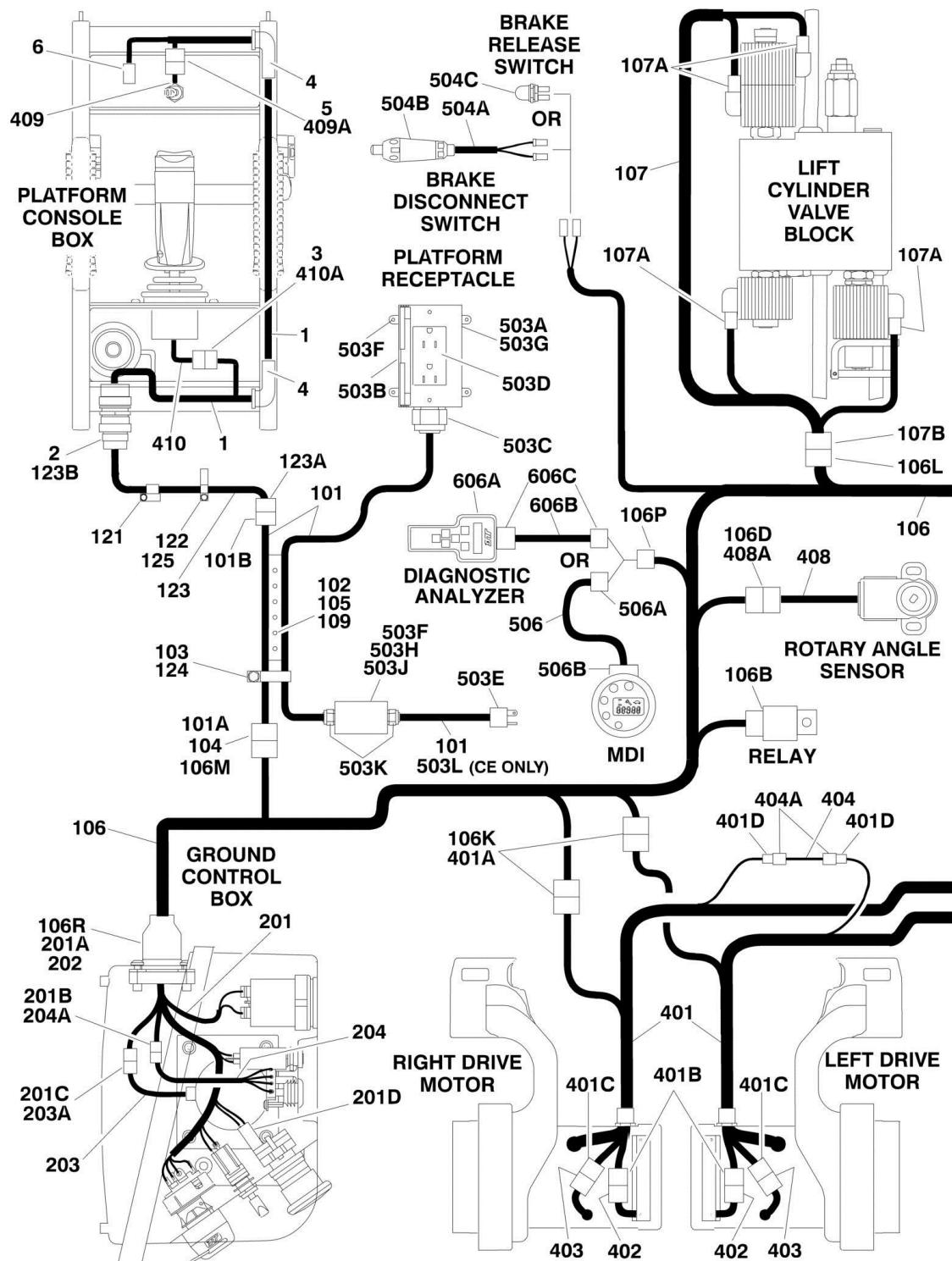
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684237	Ref	USA Built Machines:	
	1684237	Ref	USA Built Machines 1930ES/2030ES/2630ES (SN 0200298014 through 0200226776)	K
	1001155850	Ref	USA Built Machines 1930ES/2030ES/2630ES (SN 0200226777 through 0200227794)	B
	1001129267	Ref	USA Built Machines 1930ES/2030ES/2630ES (SN 0200227795 through 0200237861)	C
	1001155850	Ref	USA Built Machines 1930ES/2030ES/2630ES (SN 0200237862 through 0200239381)	B
	1684456	Ref	USA Built Machines 2646ES/3246ES (SN 0200198014 through 0200226776)	H
	1001155851	Ref	USA Built Machines 2646ES/3246ES (SN 0200226777 through 0200228265)	B
	1001129268	Ref	USA Built Machines 2646ES/3246ES (SN 0200228266 through 0200237861)	D
	1001155851	Ref	USA Built Machines 2646ES/3246ES (SN 0200237862 through 0200239381)	B
			China Built Machines:	
	1684237	Ref	China Built Machines 1930ES/2030ES/2630ES (SN B200000100 through B200014592)	K
	1001129267	Ref	China Built Machines 1930ES/2030ES/2630ES (SN B200014593 to Present)	C
	1684456	Ref	China Built Machines 2646ES/3246ES (SN B200000100 through B200014592)	H
	1001129268	Ref	China Built Machines 2646ES/3246ES (SN B200014593 through B200020296)	D
109	2110404	2	Fitting, Straight Adapter	

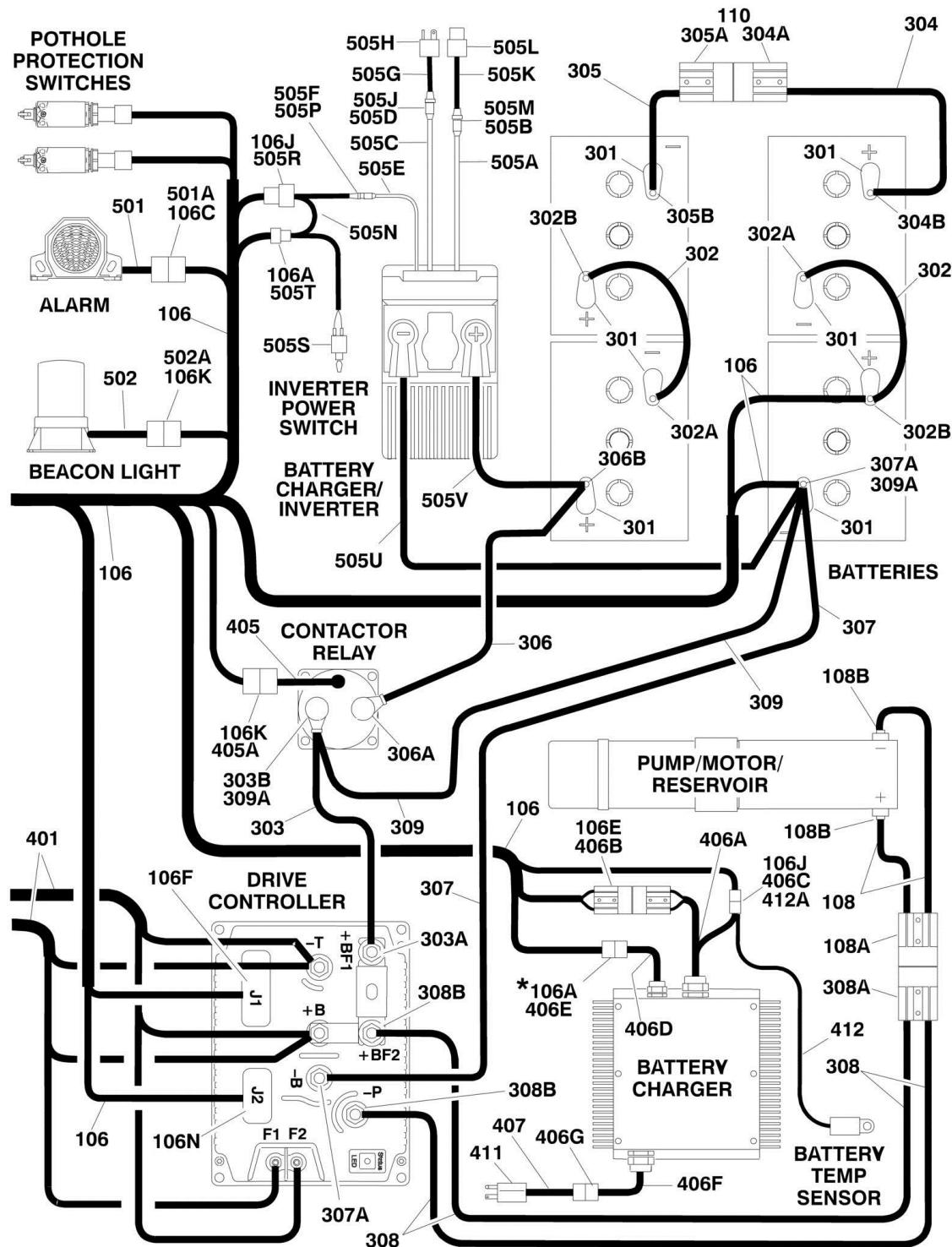
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FIGURE 7-1. 1930ES ELECTRICAL COMPONENTS INSTALLATION



SECTION 7 - ELECTRICAL



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FIGURE 7-1. 1930ES ELECTRICAL COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CONSOLE BOX COMPONENTS	
1	4922870	1	Platform Box Harness	C
2	4461016	1	Connector - 14 Position	
2	4460464	5	Pin, Male	
2	4460466	9	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	Not Available	1	Receptacle, Female - 3 Position	
6	4461057	1	Plug, Male - 16 Position	
		Ref	PLATFORM CABLES INSTALLATION	
	1001116630	Ref	ANSI, ANSI Export, Japanese and UL Specs	C
	1001116631	Ref	Australian and CE Specs	C
101		Ref	Platform to Ground Harness Options:	
101	1001094154	1	ANSI, ANSI Export, Japanese and UL Specs	E
101	1001094332	1	Australian and CE Specs:	E
101A	4460930	1	Plug, Male - 8 Position	
101A	4460465	4	Socket, Female	
101A	4460944	3	Socket, Female (Gold)	
101A	4460466	1	Plug, Sealing	
101A	0840061	1	Boot, 8 Position Plug	
101A	2820026	AR	Insulation, Clear Tubing	
101A	2820028	AR	Heat Shrink	
101B	4460930	1	Plug, Male - 8 Position	
101B	4460465	4	Socket, Female	
101B	4460944	3	Socket, Female (Gold)	
101B	4460466	1	Plug, Sealing	
101B	0840061	1	Boot, 8 Position Plug	
101B	2820026	AR	Insulation, Clear Tubing	
101B	2820028	AR	Heat Shrink	
102	1380158	AR	Retainer	
103	1320318	AR	P-Clamp 3/4in	
104	0100048	AR	Grease, Dielectric	
105	4740545	AR	Washer, Special Cable	
106	1001116634	1	Chassis Harness	E
106	1001115126	1	Wiring Diagram - Chassis	A
106A	4460320	1	Plug, Male - 2 Position (Note: Connection to this plug used only when footswitch or battery interlock options are required)	
106A	4460226	2	Socket, Female	
106B	1001097347	1	Relay	
106B	4460374	1	Plug, Relay	
106B	4460375	3	Terminal	
106C	4460539	1	Plug, Male - 3 Position	
106C	4460465	2	Socket, Female	
106D	4460539	1	Plug, Male - 3 Position	
106D	4460465	3	Socket, Female	
106E	4460648	1	Connector, Anderson	
106F	4460873	1	Plug, Male - 35 Position	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106F	4460871	26	Socket, Female	
106J	4460894	1	Plug, Male - 6 Position	
106J	4460465	4	Socket, Female	
106K	4460897	4	Receptacle, Female - 2 Position	
106K	4460464	8	Pin, Male	
106L	4460899	1	Connector, Female - 6 Position	
106L	4460464	6	Pin, Male	
106M	4460931	1	Receptacle, Female - 8 Position	
106M	4460464	4	Pin, Male	
106M	4460943	3	Pin, Male (Gold)	
106M	0840058	1	Boot	
106N	1001096138	1	Plug, Male - 23 Position	
106N	4460871	13	Socket, Female	
106P	4460761	1	Receptacle, Female - 4 Position	
106P	4460227	4	Pin, Male	
106R	1001115076	1	Plug, Male - 18 Position	
106R	4460465	14	Socket, Female	
106R	4460942	2	Socket, Female	
107	1001115002	1	Lift Cylinder Harness	B
107A	4460891	4	Plug, Male - 2 Position	
107A	4460465	8	Socket, Female	
107B	4460894	1	Plug, Male - 6 Position	
107B	4460465	6	Socket, Female	
107B	0840059	1	Boot	
108	4923647	1	Power to Pump Motor Harness	B
108A	Ref		Connector, Anderson Options:	
108A	Not Available	1	Connector, Anderson Red	
108A	Not Available	1	Connector, Anderson Gray	
108B	0840041	2	Boot, Terminal (Red)	
109	Ref		Screw M6 Options:	
109	0760610	AR	Screw M6 x 20mm Length	
109	0760614	AR	Screw M6 x 30mm Length	
109	0760615	AR	Screw M6 x 35mm Length	
110	Ref		Bracket, Battery Connector Options:	
110	0903339	1	Bracket Non-UL Machines	
110	1001110826	1	Bracket UL Machines	
110	0760615	1	Screw M6 x 35mm	
110	3290605	1	Locknut M6	
110	4811702	2	Flatwasher M6	
111	1001116635	Ref	Battery Cable Kit (See Items 301-309 for Breakdown)	
121	1001094175	AR	Clamp, Post	
121	4010616	AR	Screw M6 x 40mm	
121	3290606	AR	Nut, Acorn M6	
122	1001094180	4	Clamp, Rail (USA Built Machines) (SN 0200198014 through 0200226731, SN 0200234120 through 0200239381)	
122	1001094180	4	Clamp, Rail (China Built Machines) (SN B200000100 through B20014593, SN B200018670 through B200020296)	
122	0760606	AR	Screw M6 x 12mm	
122	3290606	AR	Nut, Acorn M6	
123	1001096705	1	Platform to Control Box Coiled Cable Harness	D
123A	4460931	1	Receptacle, Female - 8 Position	
123A	4460464	4	Pin, Male	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123A	4460943	3	Pin, Male (Gold)	
123A	4460466	1	Plug, Sealing	
123A	0840058	1	Boot, 8 Position Receptacle	
123A	2820026	AR	Insulation, Clear Tubing	
123A	2820028	AR	Heat Shrink	
123B	4460754	1	Connector -14 Position	
123B	4460465	4	Socket, Female	
123B	4460944	3	Socket, Female	
123B	4460466	4	Plug, Sealing	
123B	3730119	1	Resistor	
123B	4460493	1	Cap, Dust	
123B	2820026	AR	Insulation, Clear Tubing	
124	1321716	2	P-Clamp, Double 1in	
124	3900351	AR	Capscrew M10 x 30mm	
124	4812000	AR	Flatwasher M10	
124	3291005	AR	Locknut M10	
125	1001155042	4	Strap, Cable Tie (USA Built Machines) (SN 0200226731 through 0200234119)	
125	1001155042	4	Strap, Cable Tie (China Built Machines) (SN B200014593 through B200018669)	
		Ref	GROUND CONTROL BOX COMPONENTS	
201	1001114935	1	Control Box Harness (SN 0200198014 through 0200238465)	A
201	1001167256	1	Control Box Harness (SN 0200238466 through 0200239381)	D
201	1001114935	1	Control Box Harness (SN B200000100 through B200020296)	A
201A	See Note	NSS	Receptacle, Female - 18 Position (Note: Not Available for Purchase)	
201A	See Note	NSS	Socket, Female (Note: Not Available for Purchase)	
201B	4460961	1	Receptacle, Female - 4 Position	
201B	4460267	4	Pin, Male	
201C	4461077	1	Plug, Male - 4 Position (1001114935 Harness)	
201C	4460884	1	Plug, Male - 4 Position (1001167256 Harness)	
201C	4460928	4	Socket, Female (1001114935 Harness)	
201C	4460944	4	Socket, Female (1001167256 Harness)	
201D	4460418	1	Receptacle, Female - 3 Position	
201D	4460419	3	Terminal	
202	1001114937	1	Mount, Harness Bulkhead	
203	1001114933	1	Harness, Tilt Sensor (Includes Sensor)	A
203A	4461076	1	Receptacle, Female - 4 Position	
203A	4460929	4	Pin, Male	
204	0610161	1	Harness, Charger LED (Includes PC Board)	
204A	4460321	1	Plug, Male - 4 Position	
204A	4460268	3	Socket, Female	
	1001116635	Ref	BATTERY CABLE KIT	E
	0275480	Ref	BATTERY CABLE COMPONENTS (UL SPEC ONLY)	E
301	0840060	8	Boot, Terminal (Gray) (Covers only the Battery Terminal Base)	
302	1060998	2	Cable, Battery (Battery Positive to Battery Negative)	E
302A	Not Available	2	Boot, Terminal (Black) (1 Per Cable Assembly)	
302B	Not Available	2	Boot, Terminal (Red) (1 Per Cable Assembly)	
303	1001114992	1	Cable, Battery (Contactor to Drive Module B+)	A
303A	Not Available	1	Boot, Terminal (Black)	
303B	Not Available	1	Boot, Terminal (Red)	
304		Ref	Cable, Battery (LH Battery to Disconnect)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
304	4923365	1	Single Pole	C
304	4923413	NLA	Two Pole (Use p/n 1001127523)	C-E
304A		Ref	Connector, Anderson Options:	
304A	Not Available	NLA	Connector Single Pole (Use p/n 4923365)	
304A	Not Available	NLA	Connector Two Pole (Use p/n 4923414)	
304B	Not Available	1	Boot, Terminal (Red)	
305		Ref	Cable, Battery (RH Batteries to Disconnect) Options:	
305	4923366	1	Single Pole	B
305	4923414	1	Two Pole	E
305A		Ref	Connector, Anderson Options:	
305A	Not Available	NLA	Connector Single Pole (Use p/n 4923366)	
305A	Not Available	NLA	Connector Two Pole (Use p/n 4923413 & 1001127523)	
305B		Ref	Boot, Terminal Options:	
305B	Not Available	1	Boot, Black	
305B	Not Available	1	Boot, Red	
306	4923367	1	Cable, Battery (RH Battery to Contactor)	B
306A	Not Available	1	Boot, Terminal (Black)	
306B	Not Available	1	Boot, Terminal (Red)	
307 to 307	Not Required	0	Not Required	
308	4923648	2	Cable, Battery (Power to Pump Motor)	B
308A		Ref	Connector, Anderson Options:	
308A	Not Available	1	Connector, Anderson Red	
308A	Not Available	1	Connector, Anderson Gray	
308B	0840041	1	Boot, Terminal (Red)	
309	4923374	1	Cable, Battery (LH Battery to Contactor)	B
309A	Not Available	2	Boot, Terminal (Red)	
			STANDARD HARNESES	
401	1001091502	2	Drive Motor/Brake Harness	E
401A	4460891	2	Plug, Male - 2 Position (1 Per Harness)	
401A	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
401B	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
401C	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D		Ref	Connector Options:	
401D	4461261	1	Plug, Male - 1 Position	
401D	4460509	1	Terminal	
402	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete Brake)	
402	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
402	Not Available	4	Pin, Male (2 Per Harness)	
403	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	
403	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
403	Not Available	4	Pin, Male (2 Per Harness)	
404	4923602	2	Harness, Field Wire Connection	B
404A	4461260	2	Receptacle, Female - 1 Position	
404A	4460508	2	Terminal	
405	3740150	1	Contactor Relay Harness (Includes Relay)	
405A	4460891	1	Plug, Male - 2 Position	
405A	4460465	2	Socket, Female	
406		Ref	Battery Charger Components	
406A	Not Available		DC Harness/Cord Set	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
406B	4460648	1	Plug, Anderson	
406C	4460899	1	Connector, Female - 6 Position	
406C	4460464	6	Pin, Male	
406D	Not Available	1	Harness with Connector (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460424	1	Connector, Female - 2 Position (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460227	2	Pin, Male	
406F	Not Available	1	AC Harness/Cord Set	
406G	Not Available	1	Connector, Female	
407		Ref	Cable, AC Power to Charger Options:	
407	1001103257	1	Cable with Factory Supplied Plug (Orange)	
407	1001103258	1	Cable with Locally Supplied Plug (Orange)	
408	4360526	NLA	Rotary Angle Sensor and Harness (Separate Harness Not Available) (Use p/n 1001092354)	
408A	4460536	1	Receptacle, Female - 3 Position	
408A	4460464	3	Pin, Male	
409	4360539	1	Toggle Switch and Harness (No Separate Harness Available)	
409A	Not Available	1	Plug, Male - 3 Position	
410	Not Available	1	Joystick Harness	
410A	4460266	1	Receptacle, Female - 9 Position	
410A	4460226	8	Socket, Female	
411		Ref	Plug Options:	
411	Not Available	NLA	ANSI Spec Plug (Use p/n 1001103257)	
411	Not Available	1	Australian and Japanese Specs (Purchase Locally)	
411		Ref	CE Spec Options:	
411	0275666	Ref	IEC Yellow Receptacle Installation	A
411	4461196	Ref	Receptacle, IEC Yellow	
411	0276667	Ref	IEC Blue Receptacle Installation	A
411	4661199	Ref	Receptacle, IEC Blue	
411	0275665	Ref	AFSINT 107 Keyed Ground Receptacle Installation	A
411	4661249	Ref	Receptacle, AFSINT 107 Keyed Ground	
411	0275663	Ref	CEE7 Post Ground Receptacle Installation	A
411	4661202	Ref	Receptacle, CEE7 Post Ground	
411	0275664	Ref	CEE7 Side Ground Receptacle Installation	A
411	4661205	Ref	Receptacle, CEE7 Side Ground	
412	1001112113	NLA	Battery Temperature Sensor Harness (Includes Sensor and Instructions) (Use p/n 1001127269)	
412A	4460465	2	Socket, Female	
		Ref	OPTIONAL HARNESSES	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
501A	4460464	3	Pin, Male	
502	2920161	1	Beacon Light and Harness (Separate Harness Not Available)	
502A	4460891	1	Plug, Male - 2 Position (1 Per Harness)	
502A	4460465	2	Socket, Female (2 Per Harness)	
503		Ref	Platform Electrical Outlet Components	
503		Ref	ANSI, ANSI Export, CSA, Japanese and UL Specs Options:	
503	0272839	Ref	110V with Receptacle and Plug	I
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	G
503		Ref	Australian Specs Options:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	G
503		Ref	CE Specs Options:	
503	0275487	Ref	110V with IEC Yellow Receptacle and Plug and Circuit Breaker	C
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	F
503	0275487	NLA	220V with IEC Blue Receptacle and Plug and Circuit Breaker (Use p/n 0275488)	C
503	0275486	Ref	220V with AFSINT 107 Keyed Ground Receptacle and Plug and Circuit Breaker	C
503	0275472	Ref	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (2x4 Box) (SN 0200198014 through 0200232930, SN B200000100 through B200018635)	C
503	1001162449	Ref	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (2x4 Box) (SN 0200232931 through 0200239381, SN B200018636 through B200020296)	A
503	0275489	Ref	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (70x70 Box)	D
503	0275485	Ref	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Single Box) (SN 0200198014 through 0200232930, SN B200000100 through B200018635)	C
503	1001162447	Ref	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Single Box) (SN 0200232931 through 0200239381, SN B200018636 through B200020296)	A
503	1001096628	Ref	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Dual Boxes) (Note: Qty shown is for single Receptacle Box. Double Qty listed for Dual Receptacle Boxes)	A
503	0275490	Ref	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (70x70 Box)	D
503		Ref	Decal - AC Power (Not Shown)	
503	1703464	1	Decal - AC Power 110V	
503	3252507	1	Decal - AC Power 220V	
503A		Ref	Box, Switch Options:	
503A	0861731	1	Box, Switch 0272839, 0275472, 0275485, 0275486, 1001162447, 1001162449 & 1001096628 Installations	
503A	Not Available	1	Box, Switch 0272843 Installation (Purchase Locally)	
503A	4460315	1	Box, Switch 0272839 Installation (Terminal, Spade) (Not Shown)	
503A	0861781	1	Box, Switch 0275487 & 0275488 Installations	
503A	See Note	1	Box, Switch 0275774/0275775 Installations (Note: Was p/n 0861782 which is no longer available. Use p/n 1001100344 CEE7 Side Ground Service Kit or p/n 1001100343 CEE7 Post Ground Service Kit. Kits includes Box p/n 1001141967 & Items 503B, 503D & 503E)	
503A	1001141967	1	Box, Switch 1001100343, 1001100344, 1001141970 & 1001141971 Service Kits	
503B		Ref	Cover Options:	
503B	1671207	1	Cover 0272839 Installation	
503B	Not Available	1	Cover 0272843 Installation (Purchase Locally)	
503B	4461244	1	Cover 0275472 & 1001162449 Installations (Includes Receptacle)	
503B	4461245	1	Cover 0275485, 1001162447 & 1001096628 Installations (Includes Receptacle)	
503B	4461246	1	Cover 0275486 Installation (Includes Receptacle)	
503B	4461198	1	Cover 0275487 Installation (Includes Receptacle)	
503B	4461201	1	Cover 0275488 Installation (Includes Receptacle)	
503B	4461204	NLA	Cover 0275489 Installation (Includes Receptacle) (Use p/n	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503B	1001141971	NLA	1001100343) Cover 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503B	4461207	NLA	Cover 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503B	1001141970	NLA	Cover 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503B	1001141968	1	Cover 1001100343 & 1001141971 Service Kits	
503B	1001141969	1	Cover 1001100344 & 1001141970 Service Kits	
503C		Ref	Connector, Strain Relief Options:	
503C	4460662	1	Connector, Strain Relief 0272839, 0275472, 0275485, 0275486, 1001162447, 1001162449 & 1001096628 Installations	
503C	Not Available	1	Connector, Strain Relief 0272843 Installation (Purchase Locally)	
503C	4461257	1	Connector, Strain Relief 0275487, 0275488, 0275489 & 0275490 Installations (90)	
503C	4461258	1	Connector, Strain Relief 0275487, 0275488, 0275489 & 0275490 Installations (Adapter)	
503C	4460633	1	Connector, Strain Relief 0275520 & 0275521 Installations	
503C	4460428	1	Connector, Strain Relief 0275522 & 0275523 Installations	
503D		Ref	Receptacle, Electrical Options:	
503D	4460346	1	Receptacle, Electrical 0272839 Installation	
503D	Not Available	1	Receptacle, Electrical 0272843 Installation (Purchase Locally)	
503D	4461244	1	Receptacle, Electrical 0275472 & 1001162449 Installations (Includes Cover)	
503D	4461245	1	Receptacle, Electrical 0275485, 1001162447 & 1001096628 Installations (Includes Receptacle)	
503D	4461246	1	Receptacle, Electrical 0275486 Installation (Includes Cover)	
503D	4461198	1	Receptacle, Electrical 0275487 Installation (Includes Cover)	
503D	4461201	1	Receptacle, Electrical 0275488 Installation (Includes Cover)	
503D	4461204	NLA	Receptacle, Electrical 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503D	1001141971	NLA	Receptacle, Electrical 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503D	4461207	NLA	Receptacle, Electrical 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503D	1001141970	NLA	Receptacle, Electrical 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503D	1001141968	1	Receptacle, Electrical 1001100343 & 1001141971 Service Kits	
503D	1001141969	1	Receptacle, Electrical 1001100344 & 1001141970 Service Kits	
503E		Ref	Plug End Options:	
503E	4460138	1	Plug End 0272839 Installation (Male)	
503E	Not Available	1	Plug End 0272843 Installation (Purchase Locally)	
503E	4461202	1	Plug End 0275472/0275489/1001162449 Installations and 1001100343/1001141971 Service Kits (Male)	
503E	4461203	1	Plug End 0275472/0275489 Installations and 1001100343/1001141971 Service Kits (Female)	
503E	4461205	1	Plug End 0275485/1001096628/1001162447 Installations and 1001100344/1001141970 Service Kits (Male)	
503E	4461206	1	Plug End 0275485/1001096628 Installations and 1001100344/1001141970 Service Kits (Female)	
503E	4461249	1	Plug End 0275486 Installation (Male)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503E	4461250	1	Plug End 0275486 Installation (Female)	
503E	4461196	1	Plug End 0275487 Installation (Male)	
503E	4461197	1	Plug End 0275487 Installation (Female)	
503E	4461199	1	Plug End 0275488 Installation (Male)	
503E	4461200	1	Plug End 0275488 Installation (Female)	
503E	4461202	1	Plug End 0275489 Installation (Male)	
503E	4461203	1	Plug End 0275489 Installation (Female)	
503E	4461205	1	Plug End 0275490 Installation (Male)	
503E	4461206	1	Plug End 0275490 Installation (Female)	
503F		Ref	Hardware Options:	
503F	4010405	AR	Screw M4 x 10mm	
503F	4010408	AR	Screw M4 x 16mm	
503F	4010608	AR	Screw M6 x 16mm	
503F	4191706	AR	Screw M6 x 12mm	
503F	4191708	AR	Screw M6 x 20mm	
503F	0760619	AR	Screw M6 x 55mm	
503F	3290405	AR	Locknut M4	
503F	3290605	AR	Locknut M6	
503F	3290607	AR	Locknut M6	
503F	4811400	AR	Flatwasher M4	
503F	1001091102	AR	Flatwasher M4 Oversize	
503F	4811700	AR	Flatwasher M6	
503G		Ref	Bracket, Receptacle Box Mounting Options:	
503G	Not Required	0	Bracket 0272839, 0272843, 0275472, 0275485, 0275486 & 1001096628 Installations	
503G	0903569	1	Bracket 0275487, 0275488, 0275489 & 0275490 Installations	
503G	0903484	1	Bracket 1001096628 Installation (2nd Receptacle Box Only)	
503H	0903566	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec Installations except 0272843 Installation)	
503H	1001096627	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec 1001096628 Installation)	
503H	1001162362	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec 1001162447 & 1001162449 Installations)	
503J	2902541	AR	Circuit Breaker Box Assembly with 2 Breakers (Required Only on CE Spec Installations except 0272843, 1001162447 & 1001162449 Installations)	E
503J	1001152485	AR	Circuit Breaker Box Assembly with 3 Breakers (Required Only on CE Spec Installations except 1001162447 & 1001162449 Installations)	
503J	1001109475	NLA	Circuit Breaker - 16 Amp (Breaker Box with 2 Breakers) (Use p/n 1001181045 16A/30mA Combination Breaker)	
503J	1001152479	NLA	Circuit Breaker - 16 Amp Double (Breaker Box with 3 Breakers) (Use p/n 1001189172)	
503J	1001109482	NLA	Circuit Breaker - 30mAmp (Breaker Box with 2 Breakers) (Use p/n 1001181045 16A/30mA Combination Breaker)	
503J	1001152482	NLA	Circuit Breaker - 30mAmp (Breaker Box with 3 Breakers) (Use p/n 1001189171)	
503J	4460957	1	Terminal Block (Breaker Box with 2 Breakers)	
503J	4460956	1	Barrier, Terminal Block (Breaker Box with 2 Breakers)	
503K	1001097150	1	Connector, Strain Relief (Required Only on CE Spec Installations except 0272843 Installation)	
503L	1060908	55 in/1.4m	Cable, Extension (Required Only on CE Spec Installations except 0272843 Installation)	
503M	1060908	55 in/1.4m	Cable, Electrical (Required Only on CE Spec 1001096628)	

SECTION 7 - ELECTRICAL

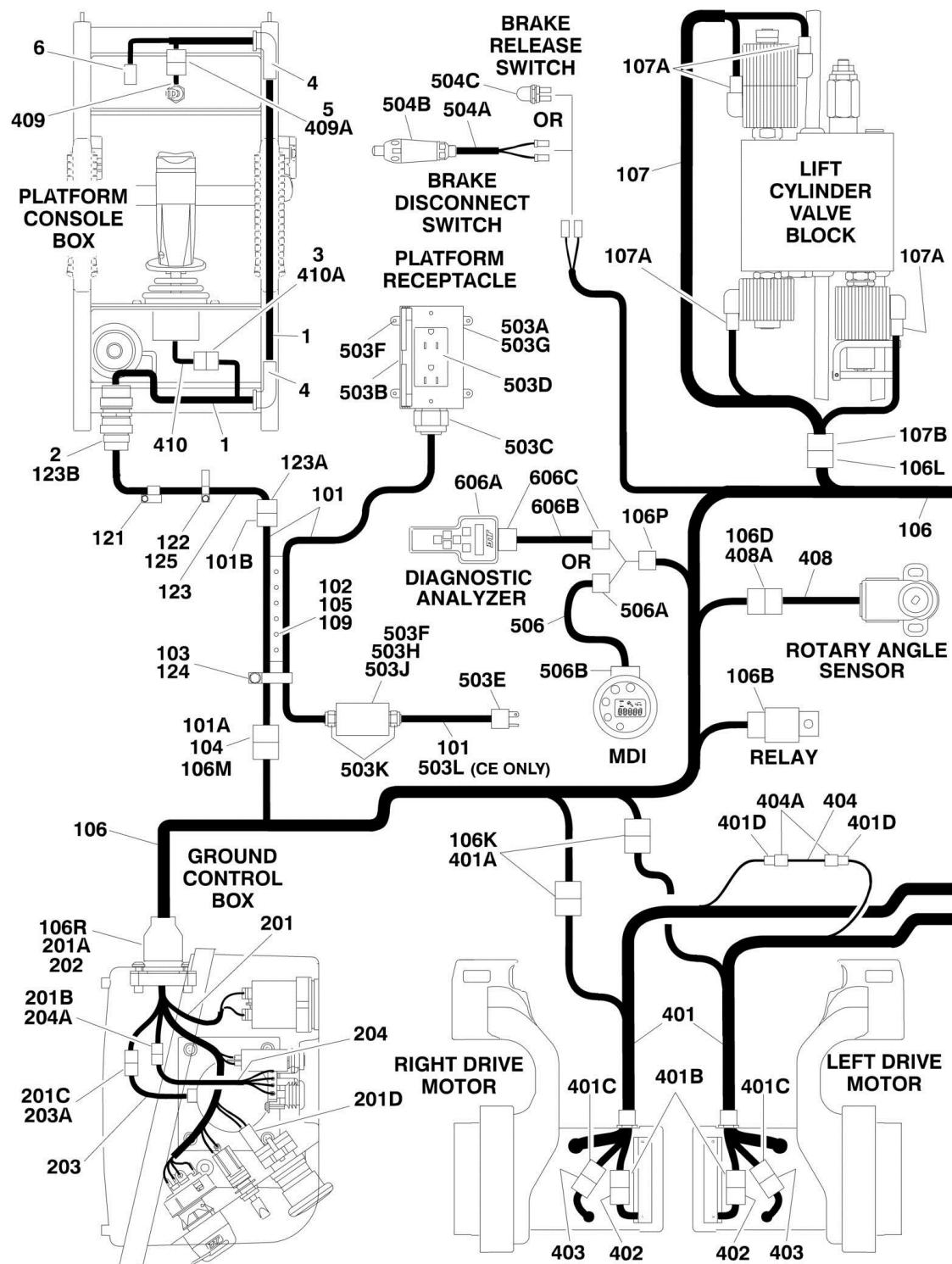
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902431	1	Installation) (Not Shown - Connects 2 Receptacle Boxes) Receptacle Box Kit (110V GFI) (Includes Items 503A-503D) (0272839 Installation)	C
	0275216	1	Receptacle, Box and Plug Kit (110V IEC Yellow) (Includes Items 503A, 503B, 503C & Male 503E Plug End) (0275487 Installation)	1-A
	0275217	1	Receptacle, Box and Plug Kit (220V IEC Blue) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275488 Installation)	1-A
	0275452	1	Receptacle Box Kit (220V CEE7 Post Ground with 2x4 Box) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275472 & 1001162449 Installations)	1-A
	0275218	NLA	Receptacle, Box and Plug Kit (220V CEE7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation) (Use p/n 1001100343)	B-A
	1001141971	NLA	Receptacle, Box and Plug Kit (220V CEE7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation) (Use p/n 1001100343)	B-A
	0275453	1	Receptacle Box Kit (220V CEE7 Side Ground with 2x4 Box) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275485, 1001096628 & 1001162447 Installations)	1-A
	0275219	NLA	Receptacle, Box and Plug Kit (220V CEE7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation) (Use p/n 1001100344)	B-A
	1001141970	NLA	Receptacle, Box and Plug Kit (220V CEE7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation) (Use p/n 1001100344)	B-A
	0275454	1	Receptacle, Box and Plug Kit (220V AFSINT 107 Keyed Ground) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275486 Installation)	1-A
504		Ref	Brake Disconnect/Release Switch Components	
504A	4922944	1	Brake Disconnect Harness and Switch	E
504A	1060680	15 ft/2.7m	Cable, Electrical 18/2	
504A	4240003	1	Strap, Cinch (Not Shown)	
504B	4360613	1	Switch, Limit	
504C	4360387	1	Brake Release Switch	
505		Ref	Battery Charger/Inverter Components (ANSI and CSA Option Only):	
505A	Not Available	1	AC Output Harness (Internal Part of Inverter)	
505B	Not Available	1	Receptacle, Female - 4 Position (Conxall T9014)	
505C	Not Available	1	AC Input Harness (Internal Part of Inverter)	
505D	Not Available	1	Receptacle, Female - 4 Position (Conxall T9016)	
505E	Not Available	1	Remote Control Harness (Internal Part of Inverter)	
505F	Not Available	1	Plug, Male - 8 Position (Conxall 7281-8PG-300)	
505G	4923389	NLA	AC Input Harness (Use p/n 1001091479)	A-D
505H	4460138	1	Plug, Male	
505J	Not Available	1	Plug, Male - 4 Position (Conxall T9017)	
505K	4923390	1	AC Output Harness	D
505L	4460779	1	Receptacle, Female	
505M	Not Available	1	Plug, Male - 4 Position (Conxall T9015)	
505N	4923391	1	Data Interface Harness	E
505P	Not Available	1	Plug, Male - 8 Position (Conxall 6280-8SG-318)	
505R	4460899	1	Receptacle, Female - 6 Position	
505R	4460464	4	Pin, Male	
505R	4460466	2	Plug, Seal	
505R	3990010	1	Diode 6A/600V	

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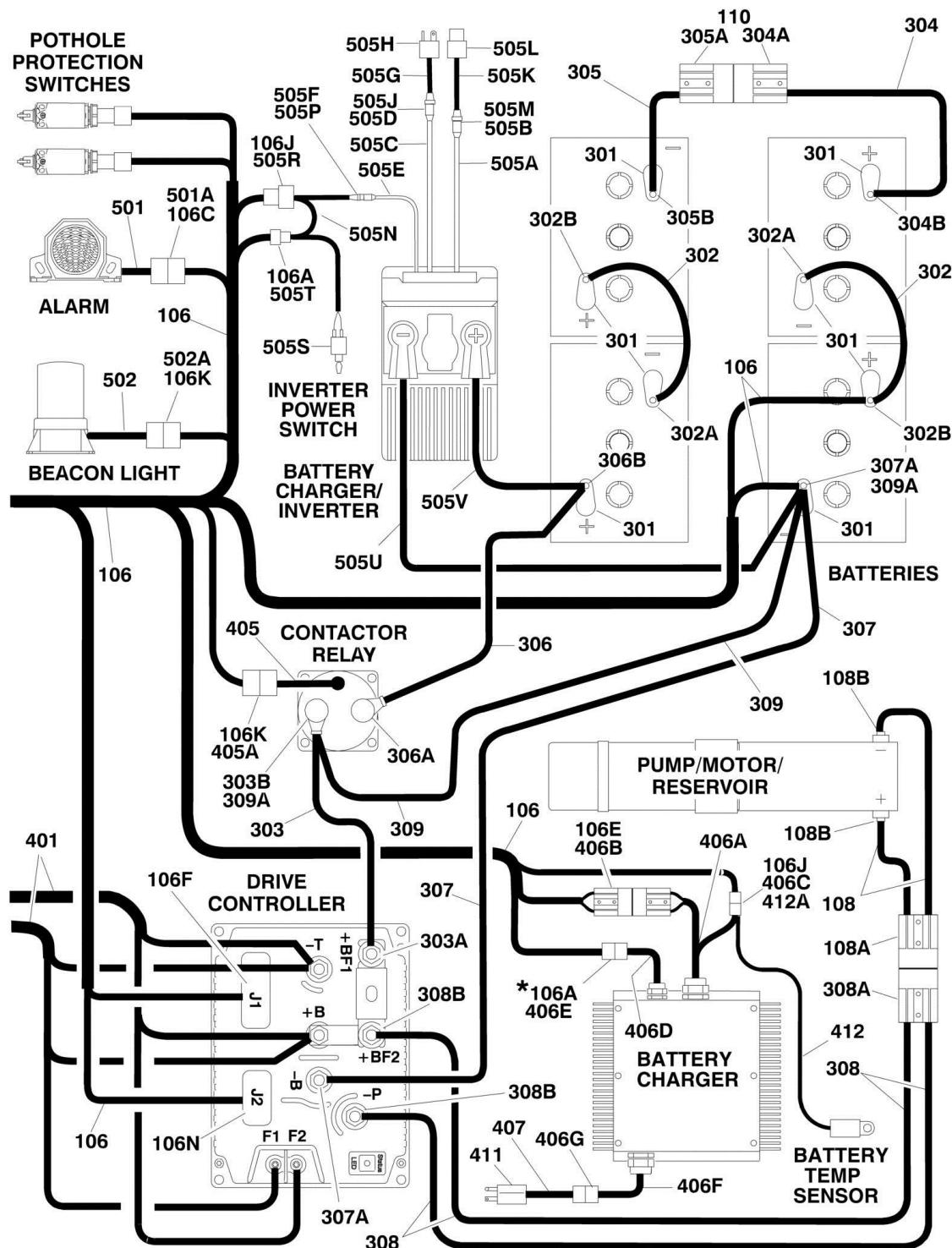
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
505S	4360336	1	Switch, Toggle	
505T	4460424	2	Receptacle, Female - 2 Position	
505T	4460267	2	Pin, Male	
505U	4923392	1	Cable, Battery + to Inverter +	A
505V	4923393	1	Cable, Battery - to Inverter -	A
506	1001093556	1	MDI Harness	B
506A	4460321	1	Plug, Male	
506A	4460226	4	Socket, Female	
506B	4460868	1	Plug, Male - 6 Position	
506B	4460877	4	Terminal	
506B	1001094105	1	Boot	
		Ref	TOOLS FOR SERVICE	
601	7002821	1	Crimper, Wire (Not Shown)	
602	7002823	1	Extractor, Pin - Universal (Not Shown)	
603	4460467	AR	Extractor, Pin #16 Gauge (Not Shown)	
604	4460510	AR	Extractor, Pin #12 Gauge (Not Shown)	
605	7002828	1	Stripper, Wire (Not Shown)	
606	2901443	1	Analyzer Kit (Not Shown)	
606A	1600244	1	Analyzer	
606B	1060633	1	Cable, Analyzer	
606C	4460321	2	Plug, Male - 4 Position	
606C	4460226	8	Socket, Female	
607	1001137005	1	Software Cables Kit (Not Shown)	

SECTION 7 - ELECTRICAL

FIGURE 7-2. 2030ES/2630ES ELECTRICAL COMPONENTS INSTALLATION



SECTION 7 - ELECTRICAL



*NOTE: THIS CONNECTION USED ONLY WHEN FOOTSWITCH OR BATTERY CHARGER INTERLOCK OPTIONS ARE REQUIRED.

SECTION 7 - ELECTRICAL

FIGURE 7-2. 2030ES/2630ES ELECTRICAL COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	4922870	1	CONSOLE BOX COMPONENTS	
2	4461016	1	Platform Box Harness	C
2	4460464	6	Connector - 14 Position	
2	4460466	8	Pin, Male	
2	4460496	1	Plug, Sealing	
2	4460497	1	Lockwasher	
2	4460265	1	Nut, Panel	
3	4460267	1	Plug, Male - 9 Position	
3	4460267	8	Pin, Male	
4	2540042	2	Grommet 90	
5	Not Available	1	Receptacle, Female - 3 Position	
6	4461057	1	Plug, Male - 16 Position	
		Ref	PLATFORM CABLES INSTALLATION	
	1001114883	Ref	Platform Cables Installation, 2030ES (ANSI, ANSI Export, Japanese and UL Specs)	D
	1001114920	Ref	Platform Cables Installation, 2030ES (Australian and CE Specs)	C
	1001114884	Ref	Platform Cables Installation, 2630ES (ANSI, ANSI Export, Japanese and UL Specs)	D
	1001114921	Ref	Platform Cables Installation, 2630ES (Australian and CE Specs)	C
101		Ref	Platform to Ground Harness Options:	
101	1001094155	1	Platform to Ground Harness, 2030ES ANSI, ANSI Export, Japanese and UL Specs	F
101	1001094333	1	Platform to Ground Harness, 2030ES Australian and CE Specs	D
101	1001094156	1	Platform to Ground Harness, 2630ES ANSI, ANSI Export, Japanese and UL Specs	F
101	1001094334	1	Platform to Ground Harness, 2630ES Australian and CE Specs	D
101A	4460930	1	Plug, Male - 8 Position	
101A	4460465	4	Socket, Female	
101A	4460944	3	Socket, Female (Gold)	
101A	4460466	1	Plug, Sealing	
101A	0840061	1	Boot, 8 Position Plug	
101A	2820026	AR	Insulation, Clear Tubing	
101A	2820028	AR	Heat Shrink	
101B	4460930	1	Plug, Male - 8 Position	
101B	4460465	4	Socket, Female	
101B	4460944	3	Socket, Female (Gold)	
101B	4460466	1	Plug, Sealing	
101B	0840061	1	Boot, 8 Position Plug	
101B	2820026	AR	Insulation, Clear Tubing	
101B	2820028	AR	Heat Shrink	
102	1380158	AR	Retainer	
103	Not Required	0	Not Required	
104	0100048	AR	Grease, Dielectric	
105	4740545	AR	Washer, Special Cable	
106	1001114934	1	Chassis Harness	F
106	1001115126	1	Wiring Diagram - Chassis	A
106A	4460320	1	Plug, Male - 2 Position (Note: Connection to this plug used only when footswitch or battery interlock options are required)	
106A	4460226	2	Socket, Female	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106B	1001097347	1	Relay	
106B	4460374	1	Plug, Relay	
106B	4460375	3	Terminal	
106C	4460539	1	Plug, Male - 3 Position	
106C	4460465	2	Socket, Female	
106D	4460539	1	Plug, Male - 3 Position	
106D	4460465	3	Socket, Female	
106E	4460648	1	Connector, Anderson	
106F	4460873	1	Plug, Male - 35 Position	
106F	4460871	26	Socket, Female	
106J	4460894	1	Plug, Male - 6 Position	
106J	4460465	4	Socket, Female	
106K	4460897	4	Receptacle, Female - 2 Position	
106K	4460464	8	Pin, Male	
106L	4460899	1	Connector, Female - 6 Position	
106L	4460464	6	Pin, Male	
106M	4460931	1	Receptacle, Female - 8 Position	
106M	4460464	4	Pin, Male	
106M	4460943	3	Pin, Male (Gold)	
106M	0840058	1	Boot	
106N	1001096138	1	Plug, Male - 23 Position	
106N	4460871	13	Socket, Female	
106P	4460761	1	Receptacle, Female - 4 Position	
106P	4460227	4	Pin, Male	
106R	1001115076	1	Plug, Male - 18 Position	
106R	4460465	14	Socket, Female	
106R	4460942	2	Socket, Female	
107	1001115002	1	Lift Cylinder Harness	B
107A	4460891	4	Plug, Male - 2 Position	
107A	4460465	8	Socket, Female	
107B	4460894	1	Plug, Male - 6 Position	
107B	4460465	6	Socket, Female	
107B	0840059	1	Boot	
108	1001096794	1	Power to Pump Motor Harness	C
108A		Ref	Connector, Anderson Options:	
108A	Not Available	1	Connector, Anderson Red	
108A	Not Available	1	Connector, Anderson Gray	
108B	0840041	2	Boot, Terminal (Red)	
109		Ref	Screw M6 Options:	
109	0760610	AR	Screw 20mm Length	
109	0760614	AR	Screw 30mm Length	
110	4031713	1	Capscrew M6 x 45mm	
110	3290605	1	Locknut M6	
111		Ref	Battery Cable Kit Options (See Item 301- 309 for Breakdown):	
111	1001096799	1	Battery Cable Kit USA Built Machines	
111	1001115022	1	Battery Cable Kit China Built Machines	
121	1001094175	AR	Clamp, Post	
121	4010616	AR	Screw M6 x 40mm	
121	3290606	AR	Nut, Acorn M6	
122	1001094180	5	Clamp, Rail (USA Built Machines) (SN 0200198014 through 0200226731, SN 0200234120 through 0200239381)	
122	1001094180	5	Clamp, Rail (China Built Machines) (SN B200000100 through	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
122	0760606	AR	B200014593, SN B200018670 through B200020296) Screw M6 x 12mm	
122	3290606	AR	Nut, Acorn M6	
123	1001096706	1	Platform to Control Box Coiled Cable Harness	C
123A	4460931	1	Receptacle, Female - 8 Position	
123A	4460464	4	Pin, Male	
123A	4460943	3	Pin, Male (Gold)	
123A	4460466	1	Plug, Sealing	
123A	0840058	1	Boot, 8 Position Receptacle	
123A	2820026	AR	Insulation, Clear Tubing	
123A	2820028	AR	Heat Shrink	
123B	4460754	1	Connector -14 Position	
123B	4460465	4	Socket, Female	
123B	4460944	3	Socket, Female	
123B	4460466	4	Plug, Sealing	
123B	3730119	1	Resistor	
123B	4460493	1	Cap, Dust	
123B	2820026	AR	Insulation, Clear Tubing	
124	1321716	2	P-Clamp, Double 1in	
124	0760610	AR	Capscrew M6 x 20mm	
124	4751400	AR	Flatwasher 1/4in Wide	
124	3290605	AR	Locknut M6	
124	3290601	AR	Nut M6	
125	1001155042	5	Strap, Cable Tie (USA Built Machines) (SN 0200226731 through 0200234119)	
125	1001155042	5	Strap, Cable Tie (China Built Machines) (SN B200014593 through B200018669)	
		Ref	GROUND CONTROL BOX COMPONENTS	
201	1001114935	1	Control Box Harness (SN 0200198014 through 0200238465)	A
201	1001167256	1	Control Box Harness (SN 0200238466 through 0200239381)	C
201	1001114935	1	Control Box Harness (SN B200000100 through B200020296)	A
201A	See Note	NSS	Receptacle, Female - 18 Position (Note: Not Available for Purchase)	
201A	See Note	NSS	Socket, Female (Note: Not Available for Purchase)	
201B	4460961	1	Receptacle, Female - 4 Position	
201B	4460267	4	Pin, Male	
201C	4461077	1	Plug, Male - 4 Position (1001114935 Harness)	
201C	4460884	1	Plug, Male - 4 Position (1001167256 Harness)	
201C	4460928	4	Socket, Female (1001114935 Harness)	
201C	4460944	4	Socket, Female (1001167256 Harness)	
201D	4460418	1	Receptacle, Female - 3 Position	
201D	4460419	3	Terminal	
202	1001114937	1	Mount, Harness Bulkhead	
203	1001114933	1	Harness, Tilt Sensor (Includes Sensor)	A
203A	4461076	1	Receptacle, Female - 4 Position	
203A	4460929	4	Pin, Male	
204	0610161	1	Harness, Charger LED (Includes PC Board	
204A	4460321	1	Plug, Male - 4 Position	
204A	4460268	3	Socket, Female	
		Ref	BATTERY CABLE KITS	
	1001096799	Ref	USA Built Machines	C
	1001115022	Ref	China Built Machines	L

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301	0840060	8	Boot, Terminal (Gray) (Covers only the Battery Terminal Base)	
302	1060998	2	Cable, Battery (Battery Positive to Battery Negative)	E
302A	Not Available	2	Boot, Terminal (Black) (1 Per Cable Assembly)	
302B	Not Available	2	Boot, Terminal (Red) (1 Per Cable Assembly)	
303	1001114992	1	Cable, Battery (Contactor to Module B+)	A
303A	Not Available	1	Boot, Terminal (Black)	
303B	Not Available	1	Boot, Terminal (Red)	
304	4923413	NLA	Cable, Battery (LH Battery to Disconnect) (Use p/n 1001127523)	C-E
304A	4460618	1	Connector, Anderson	
304A	2560205	1	Handle, Connector	
304B	Not Available	1	Boot, Terminal (Red)	
305	4923414	1	Cable, Battery (RH Batteries to Disconnect)	E
305A	4460618	1	Connector, Anderson	
305B	Not Available	1	Boot, Terminal (Black)	
306	1001115471	1	Cable, Battery (RH Battery to Contactor)	A
306A	Not Available	1	Boot, Terminal (Black)	
306B	Not Available	1	Boot, Terminal (Red)	
307	1001115472	1	Cable, Battery (LH Battery to Connector B-)	A
307A	Not Available	1	Boot, Terminal (Black)	
308	1001096795	2	Cable, Battery (Power to Pump Motor)	C
308A		Ref	Connector, Anderson Options:	
308A	Not Available	1	Connector, Anderson Red	
308A	Not Available	1	Connector, Anderson Gray	
308B	0840041	1	Boot, Terminal (Red)	
309 AND 309	Not Required	0	Not Required	
		Ref	STANDARD HARNESSES	
401		Ref	Drive Motor/Brake Harness Options:	
401	1001091843	NLA	Cable (USA Built Machines) (Use p/n 1001134012) (SN 0200198014 through 0200207813)	A-G
401	1001091843	NLA	Cable (China Built Machines) (Use p/n 1001134012) (SN B200000100 through B200000241)	A-G
401	1001132439	2	Cable (USA Built Machines) (SN 0200207814 to Present)	A
401	1001132439	2	Cable (China Built Machines) (SN B200000242 to Present)	A
401A	4460891	2	Plug, Male - 2 Position (1 Per Harness)	
401A	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
401B	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
401C	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D	4461261	1	Plug, Male - 1 Position	
401D	4460509	1	Terminal	
402	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete Brake)	
402	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
402	Not Available	4	Pin, Male (2 Per Harness)	
403	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	
403	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
403	Not Available	4	Pin, Male (2 Per Harness)	
404	4923602	2	Harness, Field Wire Connection	B
404A	4461260	2	Receptacle, Female - 1 Position	
404A	4460508	2	Terminal	
405	3740150	1	Contactor Relay Harness (Includes Relay)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
405A	4460891	1	Plug, Male - 2 Position	
405A	4460465	2	Socket, Female	
406		Ref	Battery Charger Components	
406A	Not Available		DC Harness/Cord Set	
406B	4460648	1	Plug, Anderson	
406C	4460899	1	Connector, Female - 6 Position	
406C	4460464	6	Pin, Male	
406D	Not Available	1	Harness with Connector (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460424	1	Connector, Female - 2 Position (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460227	2	Pin, Male	
406F	Not Available	1	AC Harness/Cord Set	
406G	Not Available	1	Connector, Female	
407		Ref	Cable, AC Power to Charger Options:	
407	1001103257	1	Cable with Factory Supplied Plug	
407	1001103258	1	Cable with Locally Supplied Plug	
408	4360526	NLA	Rotary Angle Sensor and Harness (Separate Harness Not Available) (Use p/n 1001092354)	
408A	4460536	1	Receptacle, Female - 3 Position	
408A	4460464	3	Pin, Male	
409	4360539	1	Toggle Switch and Harness (No Separate Harness Available)	
409A	Not Available	1	Plug, Male - 3 Position	
410	Not Available	1	Joystick Harness	
410A	4460266	1	Receptacle, Female - 9 Position	
410A	4460226	8	Socket, Female	
411		Ref	Plug Options:	
411	Not Available	NLA	ANSI Spec Plug (Use p/n 1001103257)	
411	Not Available	1	Australian and Japanese Specs (Purchase Locally)	
411		Ref	CE Spec Options:	
411	0275666	Ref	IEC Yellow Receptacle Installation	A
411	4461196	Ref	Receptacle, IEC Yellow	
411	0276667	Ref	IEC Blue Receptacle Installation	A
411	4661199	Ref	Receptacle, IEC Blue	
411	0275665	Ref	AFSINT 107 Keyed Ground Receptacle Installation	A
411	4661249	Ref	Receptacle, AFSINT 107 Keyed Ground	
411	0275663	Ref	CEE7 Post Ground Receptacle Installation	A
411	4661202	Ref	Receptacle, CEE7 Post Ground	
411	0275664	Ref	CEE7 Side Ground Receptacle Installation	A
411	4661205	Ref	Receptacle, CEE7 Side Ground	
412	1001112113	NLA	Battery Temperature Sensor Harness (Includes Sensor and Instructions) (Use p/n 1001127269)	
412A	4460465	2	Socket, Female	
		Ref	OPTIONAL HARNESSES	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
501A	4460464	3	Pin, Male	
502	2920161	1	Beacon Light and Harness (Separate Harness Not Available)	
502A	4460891	1	Plug, Male - 2 Position (1 Per Harness)	
502A	4460465	2	Socket, Female (2 Per Harness)	
503		Ref	Platform Electrical Outlet Components	
503		Ref	ANSI, ANSI Export, CSA, Japanese and UL Specs Options:	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503	0272839	Ref	110V with Receptacle and Plug	I
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	G
503		Ref	Australian Specs Options:	
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	G
503		Ref	CE Specs Options:	
503	0275513	NLA	110V with IEC Yellow Receptacle and Plug and Circuit Breaker (Use p/n 0275487)	C
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	F
503	0275514	NLA	220V with IEC Blue Receptacle and Plug and Circuit Breaker (Use p/n 0275488)	C
503	0275512	NLA	220V with AFSINT 107 Keyed Ground Receptacle and Plug and Circuit Breaker (Use p/n 0275486)	C
503	0275510	NLA	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (2x4 Box) (Use p/n 0275472)	C
503	0275515	NLA	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (Use p/n 0275489)	D
503	0275511	NLA	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Single Box) (Use p/n 0275485)	C
503	1001096628	Ref	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Dual Boxes)	A
		Ref	Note: Qty shown is for single Receptacle Box. Double Qty listed for Dual Receptacle Boxes.	
503	0275516	NLA	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (Use p/n 0275490)	D
503		Ref	Decal - AC Power (Not Shown)	
503	1703464	1	Decal - AC Power 110V	
503	3252507	1	Decal - AC Power 220V	
503A		Ref	Box, Switch Options:	
503A	0861731	1	Box, Switch 0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
503A	Not Available	1	Box, Switch 0272843 Installation (Purchase Locally)	
503A	4460315	1	Box, Switch 0272839 Installation (Terminal, Spade) (Not Shown)	
503A	0861781	1	Box, Switch 0275487 & 0275488 Installations	
503A	See Note	1	Box, Switch 0275774/0275775 Installations (Note: Was p/n 0861782 which is no longer available. Use p/n 1001100344 CEE7 Side Ground Service Kit or p/n 1001100343 CEE7 Post Ground Service Kit. Kits includes Box p/n 1001141967 & Items 503B, 503D & 503E)	
503A	1001141967	1	Box, Switch 1001100344,1001100344, 1001141970 & 1001141971 Service Kits	
503B		Ref	Cover Options:	
503B	1671207	1	Cover 0272839 Installation	
503B	Not Available	1	Cover 0272843 Installation (Purchase Locally)	
503B	4461244	1	Cover 0275472 Installation (Includes Receptacle)	
503B	4461245	1	Cover 0275485 & 1001096628 Installations (Includes Receptacle)	
503B	4461246	1	Cover 0275486 Installation (Includes Receptacle)	
503B	4461198	1	Cover 0275487 Installation (Includes Receptacle)	
503B	4461201	1	Cover 0275488 Installation (Includes Receptacle)	
503B	4461204	NLA	Cover 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503B	1001141971	NLA	Cover 0275489 Installation (Includes Receptacle) (Use p/n	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503B	4461207	NLA	1001100343) Cover 0275490 Installation (Includes Receptacle) (Use p/n 1001100343)	
503B	1001141970	NLA	Cover 0275490 Installation (Includes Receptacle) (Use p/n 1001100343)	
503B	1001141968	1	Cover 1001100343 & 1001141971 Service Kit	
503B	1001141969	1	Cover 1001100344 & 1001141970 Service Kit	
503C		Ref	Connector, Strain Relief Options:	
503C	4460662	1	Connector, Strain Relief 0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
503C	Not Available	1	Connector, Strain Relief 0272843 Installation (Purchase Locally)	
503C	4461257	1	Connector, Strain Relief 0275487, 0275488, 0275489 & 0275490 Installations (90)	
503C	4461258	1	Connector, Strain Relief 0275487, 0275488, 0275489 & 0275490 Installations (Adapter)	
503C	4460633	1	Connector, Strain Relief 0275520 & 0275521 Installations	
503C	4460428	1	Connector, Strain Relief 0275522 & 0275523 Installations	
503D		Ref	Receptacle, Electrical Options:	
503D	4460346	1	Receptacle, Electrical 0272839 Installation	
503D	Not Available	1	Receptacle, Electrical 0272843 Installation (Purchase Locally)	
503D	4461244	1	Receptacle, Electrical 0275472 Installation (Includes Cover)	
503D	4461245	1	Receptacle, Electrical 0275485 & 1001096628 Installations (Includes Receptacle)	
503D	4461246	1	Receptacle, Electrical 0275486 Installation (Includes Cover)	
503D	4461198	1	Receptacle, Electrical 0275487 Installation (Includes Cover)	
503D	4461201	1	Receptacle, Electrical 0275488 Installation (Includes Cover)	
503D	4461204	NLA	Receptacle, Electrical 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503D	4461207	NLA	Receptacle, Electrical 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503D	1001141968	1	Receptacle, Electrical 1001100343 & 1001141971 Service Kit	
503D	1001141969	1	Receptacle, Electrical 1001100344 & 1001141970 Service Kit	
503E		Ref	Plug End Options:	
503E	4460138	1	Plug End 0272839 Installation (Male)	
503E	Not Available	1	Plug End 0272843 Installation (Purchase Locally)	
503E	4461202	1	Plug End 0275472/0275489 Installations and 1001100343/1001141971 Service Kits (Male)	
503E	4461203	1	Plug End 0275472/0275489 Installations and 1001100343/1001141971 Service Kits (Female)	
503E	4461205	1	Plug End 0275485/1001096628 Installations and 1001100344/1001141970 Service Kits (Male)	
503E	4461206	1	Plug End 0275485 & 1001096628 Installations and 1001100344/1001141970 Service Kits (Female)	
503E	4461249	1	Plug End 0275486 Installation (Male)	
503E	4461250	1	Plug End 0275486 Installation (Female)	
503E	4461196	1	Plug End 0275487 Installation (Male)	
503E	4461197	1	Plug End 0275487 Installation (Female)	
503E	4461199	1	Plug End 0275488 Installation (Male)	
503E	4461200	1	Plug End 0275488 Installation (Female)	
503E	4461202	1	Plug End 0275489 Installation (Male)	
503E	4461203	1	Plug End 0275489 Installation (Female)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503E	4461205	1	Plug End 0275490 Installation (Male)	
503E	4461206	1	Plug End 0275490 Installation (Female)	
503F		Ref	Hardware Options:	
503F	4010405	AR	Screw M4 x 10mm	
503F	4010408	AR	Screw M4 x 16mm	
503F	4010612	AR	Screw M6 x 16mm	
503F	4191706	AR	Screw M6 x 12mm	
503F	4191708	AR	Screw M6 x 20mm	
503F	0760619	AR	Screw M6 x 55mm	
503F	3290405	AR	Locknut M4	
503F	3290605	AR	Locknut M6	
503F	3290607	AR	Locknut M6	
503F	4811400	AR	Flatwasher M4	
503F	1001091102	AR	Flatwasher M4 Oversize	
503F	4811700	AR	Flatwasher M6	
503G		Ref	Bracket, Receptacle Box Mounting Options:	
503G	Not Required	0	Bracket 0272839, 0272843, 0275472, 0275485, 0275486 & 1001096628 Installations	
503G	0903569	1	Bracket 0275487, 0275488, 0275489 & 0275490 Installations	
503G	0903484	1	Bracket 1001096628 Installation (2nd Receptacle Box Only)	
503H	0903566	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec Installations except 0272843 Installation)	
503H	01001096627	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec 1001096628 Installation)	
503J	2902541	AR	Circuit Breaker Box Assembly (Required Only on CE Spec Installations except 0272843 Installation):	G
503J		Ref	Circuit Breaker Options:	
503J	1001109475	NLA	Circuit Breaker - 16A (Use p/n 1001181045)	
503J	1001109482	NLA	Circuit Breaker - 30mA (Use p/n 1001181045)	
503J	4460957	1	Terminal Block	
503J	4460956	1	Barrier, Terminal Block	
503K	1001097150	1	Connector, Strain Relief (Required Only on CE Spec Installations except 0272843 Installation)	
503L	1060908	55 in/1.4m	Cable, Extension (Required Only on CE Spec Installations except 0272843 Installation)	
503M	1060908	55 in/1.4m	Cable, Electrical (Required Only on CE Spec 1001096628 Installation) (Not Shown - Connects 2 Receptacle Boxes)	
	2902431	1	Receptacle Box Kit (110V GFI) (Includes Items 503A-503D) (0272839 Installation)	C
	0275216	1	Receptacle, Box and Plug Kit (110V IEC Yellow) (Includes Items 503A, 503B, 503C & Male 503E Plug End) (0275487 Installation)	1
	0275217	1	Receptacle, Box and Plug Kit (220V IEC Blue) (Includes Items 503A, 503B, 503D and Male 503E Plug End) (0275488 Installation)	1
	0275452	1	Receptacle Box Kit (220V CEE7 Post Ground with 2x4 Box) (Includes Items 503A, 503B, 503D and Male 503E Plug End) (0275472 Installation)	1
	0275218	NLA	Receptacle, Box and Plug Kit (220V CEE7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation) (Use p/n 1001100343)	B-A
	1001141971	NLA	Receptacle, Box and Plug Kit (220V CEE7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation) (Use p/n 1001100343)	B-A

SECTION 7 - ELECTRICAL

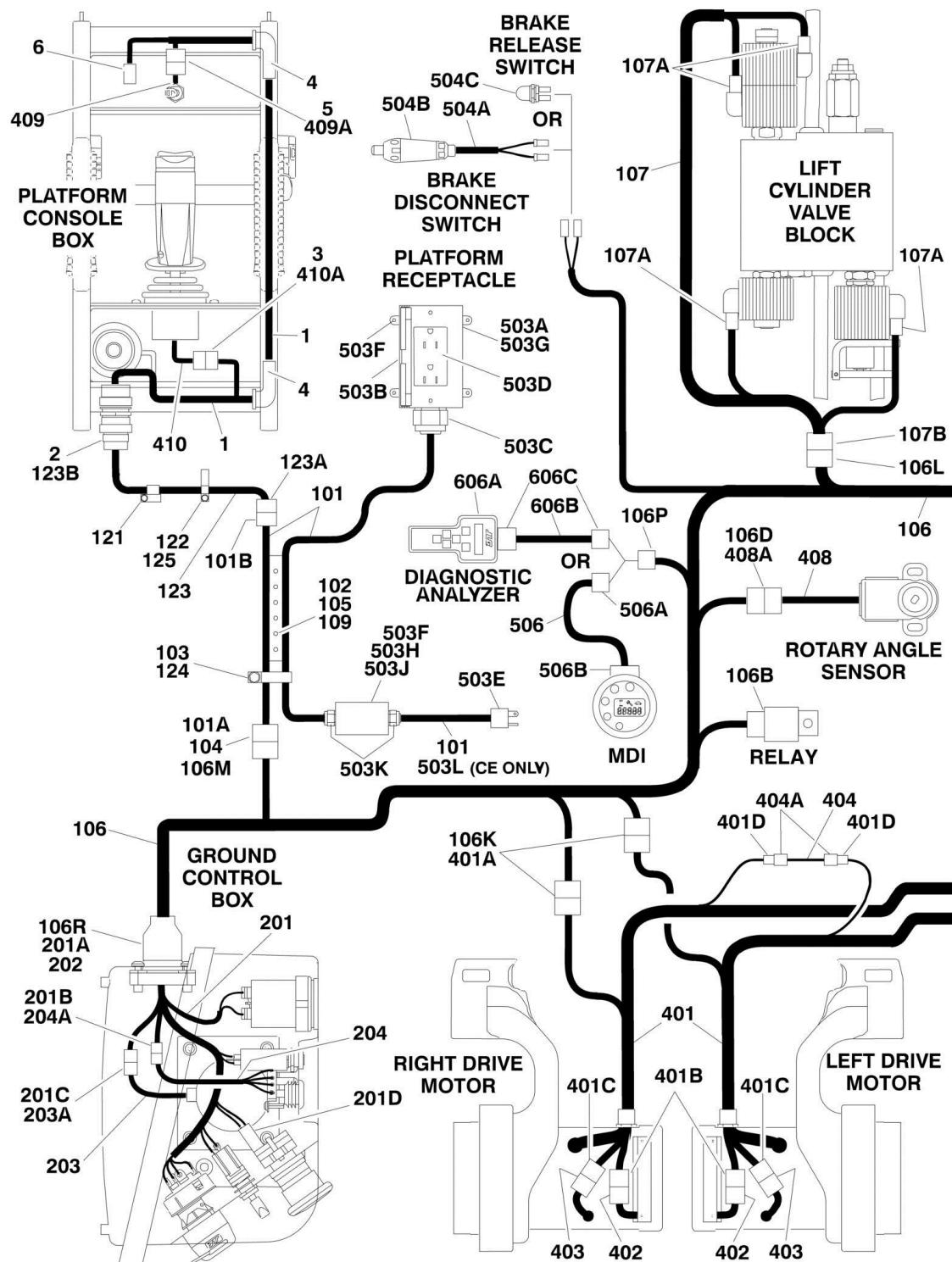
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275453	1	Receptacle Box Kit (220V CEE7 Side Ground with 2x4 Box) (Includes Items 503A, 503B, 503D and Male 503E Plug End) (0275485 & 1001096628 Installations)	1
	0275219	NLA	Receptacle, Box and Plug Kit (220V CEE7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation) (Use p/n 1001100344)	B-A
	1001141970	NLA	Receptacle, Box and Plug Kit (220V CEE7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation) (Use p/n 1001100344)	B-A
	0275454	1	Receptacle, Box and Plug Kit (220V AFSINT 107 Keyed Ground) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275486 Installation)	1
504		Ref	Brake Disconnect/Release Switch Components	
504A	4922944	1	Brake Disconnect Harness and Switch	E
504A	1060680	15 ft/2.7m	Cable, Electrical 18/2	
504A	4240003	1	Strap, Cinch (Not Shown)	
504B	4360613	1	Switch, Limit	
504C	4360387	1	Brake Release Switch	
505		Ref	Battery Charger/Inverter Components (ANSI and CSA Option Only):	
505A	Not Available	1	AC Output Harness (Internal Part of Inverter)	
505B	Not Available	1	Receptacle, Female - 4 Position (Conxall T9014)	
505C	Not Available	1	AC Input Harness (Internal Part of Inverter)	
505D	Not Available	1	Receptacle, Female - 4 Position (Conxall T9016)	
505E	Not Available	1	Remote Control Harness (Internal Part of Inverter)	
505F	Not Available	1	Plug, Male - 8 Position (Conxall 7281-8PG-300)	
505G	4923389	NLA	AC Input Harness (Use p/n 1001091479)	A-D
505H	4460138	1	Plug, Male	
505J	Not Available	1	Plug, Male - 4 Position (Conxall T9017)	
505K	4923390	1	AC Output Harness	D
505L	4460779	1	Receptacle, Female	
505M	Not Available	1	Plug, Male - 4 Position (Conxall T9015)	
505N	4923391	1	Data Interface Harness	E
505P	Not Available	1	Plug, Male - 8 Position (Conxall 6280-8SG-318)	
505R	4460899	1	Receptacle, Female - 6 Position	
505R	4460464	4	Pin, Male	
505R	4460466	2	Plug, Seal	
505R	3990010	1	Diode 6A/600V	
505S	4360336	1	Switch, Toggle	
505T	4460424	2	Receptacle, Female - 2 Position	
505T	4460267	2	Pin, Male	
505U	4923392	1	Cable, Battery + to Inverter +	A
505V	4923393	1	Cable, Battery - to Inverter -	A
506	1001093556	1	MDI Harness	B
506A	4460321	1	Plug, Male	
506A	4460226	4	Socket, Female	
506B	4460868	1	Plug, Male - 6 Position	
506B	4460877	4	Terminal	
506B	1001094105	1	Boot	
		Ref	TOOLS FOR SERVICE	
601	7002821	1	Crimper, Wire (Not Shown)	
602	7002823	1	Extractor, Pin - Universal (Not Shown)	
603	4460467	AR	Extractor, Pin #16 Gauge (Not Shown)	

SECTION 7 - ELECTRICAL

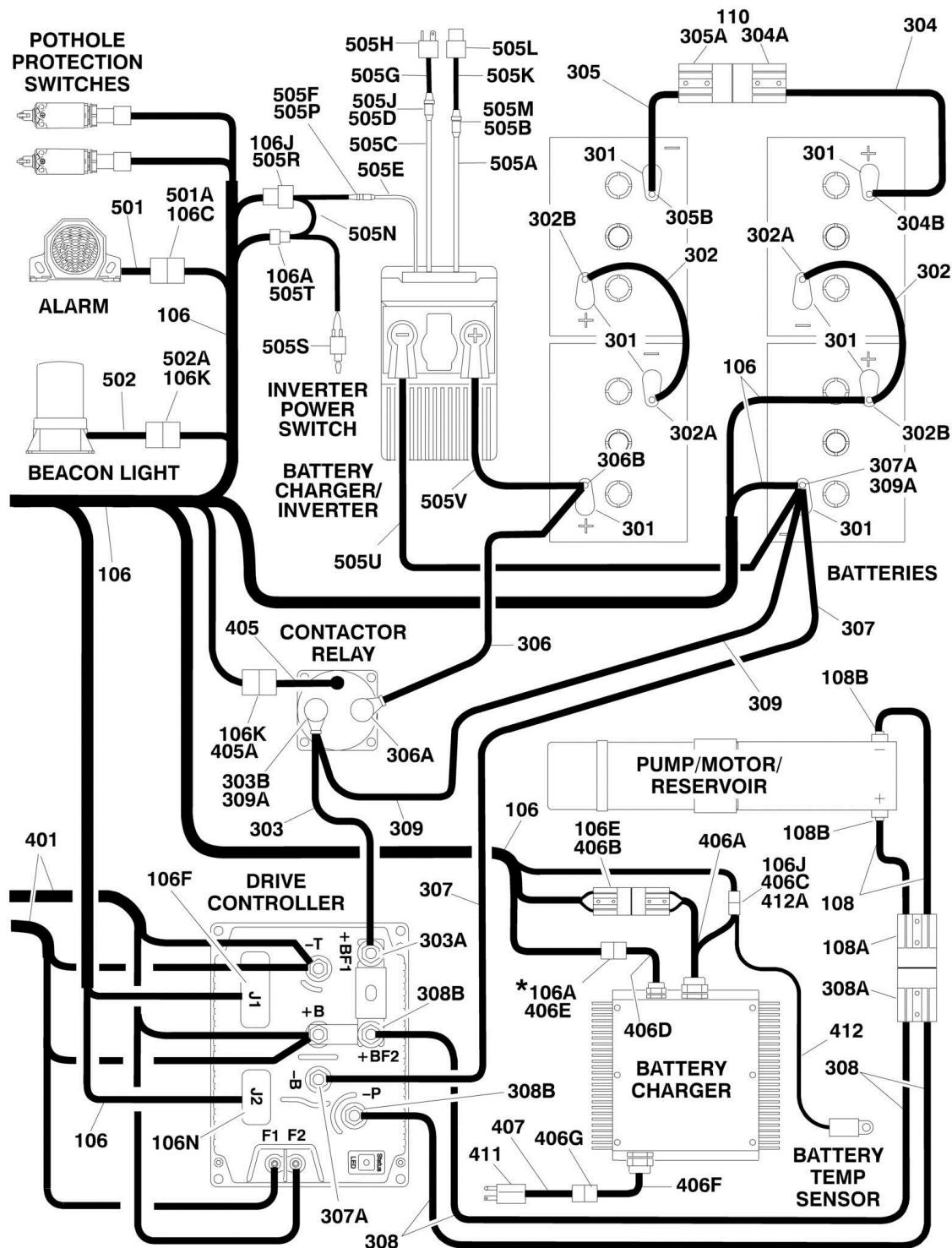
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
604	4460510	AR	Extractor, Pin #12 Gauge (Not Shown)	
605	7002828	1	Stripper, Wire (Not Shown)	
606	2901443	1	Analyzer Kit (Not Shown)	
606A	1600244	1	Analyzer	
606B	1060633	1	Cable, Analyzer	
606C	4460321	2	Plug, Male - 4 Position	
606C	4460226	8	Socket, Female	
607	1001137005	1	Software Cables Kit (Not Shown)	

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FIGURE 7-3. 2646ES/3246ES ELECTRICAL COMPONENTS INSTALLATION



SECTION 7 - ELECTRICAL



SECTION 7 - ELECTRICAL

FIGURE 7-3. 2646ES/3246ES ELECTRICAL COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			CONSOLE BOX COMPONENTS	
1	4922870	1	Platform Box Harness	C
2	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	Not Available	1	Receptacle, Female - 3 Position	
6	4461057	1	Plug, Male - 16 Position	
			PLATFORM CABLES INSTALLATION	
	1001116632	Ref	Platform Cables Installation 2646ES/3246ES (ANSI, ANSI Export, Japanese and UL Specs)	D
	1001116633	Ref	Platform Cables Installation 2646ES/3246ES (Australian and CE Specs)	C
101		Ref	Platform to Ground Harness Options:	
101	1001094157	1	Platform to Ground Harness ANSI, ANSI Export, Japanese and UL Specs	E
101	1001094335	1	Platform to Ground Harness Australian and CE Specs	D
101A	4460930	1	Plug, Male - 8 Position	
101A	4460465	4	Socket, Female	
101A	4460944	3	Socket, Female (Gold)	
101A	4460466	1	Plug, Sealing	
101A	0840061	1	Boot, 8 Position Plug	
101A	2820026	AR	Insulation, Clear Tubing	
101A	2820028	AR	Heat Shrink	
101B	4460930	1	Plug, Male - 8 Position	
101B	4460465	4	Socket, Female	
101B	4460944	3	Socket, Female (Gold)	
101B	4460466	1	Plug, Sealing	
101B	0840061	1	Boot, 8 Position Plug	
101B	2820026	AR	Insulation, Clear Tubing	
101B	2820028	AR	Heat Shrink	
102	1380158	21	Retainer	
103	1320318	1	Clamp, Hose	
104	0100048	AR	Grease, Dielectric	
105	4740545	8	Washer, Special Cable	
106	1001116636	1	Chassis Harness	E
106	1001115126	1	Wiring Diagram - Chassis	A
106	3990013	2	Diode 1 Amp/400V (Not Shown)	
106A	4460320	1	Plug, Male - 2 Position (Note: Connection to this plug used only when footswitch or battery interlock options are required)	
106A	4460226	2	Socket, Female	
106B	1001097347	1	Relay	
106B	4460374	1	Plug, Relay	
106B	4460375	3	Terminal	
106C	4460539	1	Plug, Male - 3 Position	
106C	4460465	2	Socket, Female	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106D	4460539	1	Plug, Male - 3 Position	
106D	4460465	3	Socket, Female	
106E	4460648	1	Connector, Anderson	
106F	4460873	1	Plug, Male - 35 Position	
106F	4460871	26	Socket, Female	
106J	4460894	1	Plug, Male - 6 Position	
106J	4460465	4	Socket, Female	
106K	4460897	4	Receptacle, Female - 2 Position	
106K	4460464	8	Pin, Male	
106L	4460899	1	Connector, Female - 6 Position	
106L	4460464	6	Pin, Male	
106M	4460931	1	Receptacle, Female - 8 Position	
106M	4460464	4	Pin, Male	
106M	4460943	3	Pin, Male (Gold)	
106M	0840058	1	Boot	
106N	1001096138	1	Plug, Male - 23 Position	
106N	4460871	13	Socket, Female	
106P	4460761	1	Receptacle, Female - 4 Position	
106P	4460227	4	Pin, Male	
106R	1001115076	1	Plug, Male - 18 Position	
106R	4460465	14	Socket, Female	
106R	4460942	2	Socket, Female	
107	1001115002	1	Lift Cylinder Harness Options:	B
107A	4460891	4	Plug, Male - 2 Position	
107A	4460465	8	Socket, Female	
107B	4460894	1	Plug, Male - 6 Position	
107B	4460465	6	Socket, Female	
107B	0840059	1	Boot	
108	1001093693	1	Power to Pump Motor Harness	B
108A		Ref	Connector, Anderson Options:	
108A	Not Available	1	Connector, Anderson Red	
108A	Not Available	1	Connector, Anderson Gray	
108B	0840041	2	Boot, Terminal (Red)	
109		Ref	Screw M6 Options:	
109	0760610	AR	Screw 20mm Length	
109	0760614	AR	Screw 30mm Length	
110	4031713	1	Capscrew M6 x 45mm	
110	3290605	1	Locknut M6	
111	1001116637	1	Battery Cable Kit (See Items 301-309 for Breakdown)	
121	1001094175	AR	Clamp, Post	
121	4010616	AR	Screw M6 x 40mm	
121	3290606	AR	Nut, Acorn M6	
122	1001094180	4	Clamp, Rail (USA Built Machines) (SN 0200198014 through 0200226731, SN 0200234120 through 0200239381)	
122	1001094180	4	Clamp, Rail (China Built Machines) (SN B200000100 through B200014593, SN B200018670 through B200020296)	
122	0760606	AR	Screw M6 x 12mm	
122	3290606	AR	Nut, Acorn M6	
123	1001096707	1	Platform to Control Box Coiled Cable Harness	B
123A	4460931	1	Receptacle, Female - 8 Position	
123A	4460464	4	Pin, Male	
123A	4460943	3	Pin, Male (Gold)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123A	4460466	1	Plug, Sealing	
123A	0840058	1	Boot, 8 Position Receptacle	
123A	2820026	AR	Insulation, Clear Tubing	
123A	2820028	AR	Heat Shrink	
123B	4460754	1	Connector -14 Position	
123B	4460465	4	Socket, Female	
123B	4460944	3	Socket, Female	
123B	4460466	4	Plug, Sealing	
123B	3730119	1	Resistor	
123B	4460493	1	Cap, Dust	
123B	2820026	AR	Insulation, Clear Tubing	
124	1321716	2	P-Clamp, Double 1in	
124	0700814	AR	Capscrew M6 x 20mm	
124	4751400	AR	Flatwasher 1/4in Wide	
124	3290605	AR	Locknut M6	
124	3290601	AR	Nut M6	
125	1001155042	4	Strap, Cable Tie (USA Built Machines) (SN 0200226731 through 0200234119)	
125	1001155042	4	Strap, Cable Tie (China Built Machines) (SN B200014593 through B200018669)	
		Ref	GROUND CONTROL BOX COMPONENTS	
201	1001114935	1	Control Box Harness (SN 0200198014 through 0200238465)	A
201	1001167256	1	Control Box Harness (SN 0200238466 through 0200239381)	C
201	1001114935	1	Control Box Harness (SN B200000100 through B200020296)	A
201A	See Note	NSS	Receptacle, Female - 18 Position (Note: Not Available for Purchase)	
201A	See Note	NSS	Socket, Female (Note: Not Available for Purchase)	
201B	4460961	1	Receptacle, Female - 4 Position	
201B	4460267	4	Pin, Male	
201C	4461077	1	Plug, Male - 4 Position (1001114935 Harness)	
201C	4460884	1	Plug, Male - 4 Position (1001167256 Harness)	
201C	4460928	4	Socket, Female (1001114935 Harness)	
201C	4460944	4	Socket, Female (1001167256 Harness)	
201D	4460418	1	Receptacle, Female - 3 Position	
201D	4460419	3	Terminal	
202	1001114937	1	Mount, Harness Bulkhead	
203	1001114933	1	Harness, Tilt Sensor (Includes Sensor)	A
203A	4461076	1	Receptacle, Female - 4 Position	
203A	4460929	4	Pin, Male	
204	0610161	1	Harness, Charger LED (Includes PC Board)	
204A	4460321	1	Plug, Male - 4 Position	
204A	4460268	3	Socket, Female	
	1001116637	Ref	BATTERY CABLE KITS	C
301	0840060	8	Boot, Terminal (Gray) (Covers only the Battery Terminal Base)	
302	1060998	2	Cable, Battery (Battery Positive to Battery Negative)	E
302A	Not Available	2	Boot, Terminal (Black) (1 Per Cable Assembly)	
302B	Not Available	2	Boot, Terminal (Red) (1 Per Cable Assembly)	
303	1001114992	1	Cable, Battery (Contactor to Drive Module B+)	A
303A	Not Available	1	Boot, Terminal (Black)	
303B	Not Available	1	Boot, Terminal (Red)	
304	4923401	1	Cable, Battery (LH Battery to Disconnect)	C
304A	4460618	1	Connector, Anderson	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
304A	2560205	1	Handle, Connector	
304B	Not Available	1	Boot, Terminal (Red)	
305	4923402	1	Cable, Battery (RH Batteries to Disconnect)	B
305A	4460618	1	Connector, Anderson	
305B	Not Available	1	Boot, Terminal (Black)	
306	4923406	1	Cable, Battery (RH Battery to Contactor)	B
306A	Not Available	1	Boot, Terminal (Black)	
306B	Not Available	1	Boot, Terminal (Red)	
307	4923409	1	Cable, Battery (LH Battery to Connector B-)	B
307A	Not Available	1	Boot, Terminal (Black)	
308	1001096796	2	Cable, Battery (Power to Pump Motor)	B
308A		Ref	Connector, Anderson Options:	
308A	Not Available	1	Connector, Anderson Red	
308A	Not Available	1	Connector, Anderson Gray	
308B	0840041	1	Boot, Terminal (Red)	
309	Not Required	0	Cable, Battery (LH Battery to Contactor)	
309A	Not Required	0	Boot, Terminal (Red)	
		Ref	STANDARD HARNESES	
401		Ref	Drive Motor/Brake Harness Options:	
401	1001091843	NLA	Cable USA Built Machines (Use p/n 1001134012) (SN 0200198014 through 0200207813)	A-G
401	1001091843	NLA	Cable China Built Machines (Use p/n 1001134012) (SN B200000100 through B200000241)	A-G
401	1001132439	2	Cable USA Built Machines (SN 0200207814 through 0200239381)	A
401	1001132439	1	Cable China Built Machines (SN B200000242 through B200020296)	A
401A	4460891	2	Plug, Male - 2 Position (1 Per Harness)	
401A	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
401B	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
401C	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D	4461261	1	Plug, Male - 1 Position	
401D	4460509	1	Terminal	
402	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete Brake)	
402	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
402	Not Available	4	Pin, Male (2 Per Harness)	
403	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	
403	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
403	Not Available	4	Pin, Male (2 Per Harness)	
404	4923602	2	Harness, Field Wire Connection	B
404A	4461260	2	Receptacle, Female - 1 Position	
404A	4460508	2	Terminal	
405	3740150	1	Contactor Relay Harness (Includes Relay)	
405A	4460891	1	Plug, Male - 2 Position	
405A	4460465	2	Socket, Female	
406		Ref	Battery Charger Components	
406A	Not Available		DC Harness/Cord Set	
406B	4460648	1	Plug, Anderson	
406C	4460899	1	Connector, Female - 6 Position	
406C	4460464	6	Pin, Male	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
406D	Not Available	1	Harness with Connector (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460424	1	Connector, Female - 2 Position (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460227	2	Pin, Male	
406F	Not Available	1	AC Harness/Cord Set	
406G	Not Available	1	Connector, Female	
407		Ref	Cable, AC Power to Charger Options:	
407	1001103257	1	Cable with Factory Supplied Plug	
407	1001103258	1	Cable with Locally Supplied Plug	
408	4360526	NLA	Rotary Angle Sensor and Harness (Separate Harness Not Available) (Use p/n 1001092354)	
408A	4460536	1	Receptacle, Female - 3 Position	
408A	4460464	3	Pin, Male	
409	4360539	1	Toggle Switch and Harness (No Separate Harness Available)	
409A	Not Available	1	Plug, Male - 3 Position	
410	Not Available	1	Joystick Harness	
410A	4460266	1	Receptacle, Female - 9 Position	
410A	4460226	8	Socket, Female	
411		Ref	Plug Options:	
411	Not Available	NLA	ANSI Spec Plug (Use p/n 1001103257)	A
411	Not Available	1	Australian and Japanese Specs (Purchase Locally)	
411		Ref	CE Spec Options:	
411	0275666	Ref	IEC Yellow Receptacle Installation	A
411	4461196	Ref	Receptacle, IEC Yellow	
411	0276667	Ref	IEC Blue Receptacle Installation	A
411	4661199	Ref	Receptacle, IEC Blue	
411	0275665	Ref	AFSINT 107 Keyed Ground Receptacle Installation	A
411	4661249	Ref	Receptacle, AFSINT 107 Keyed Ground	
411	0275663	Ref	CEE7 Post Ground Receptacle Installation	A
411	4661202	Ref	Receptacle, CEE7 Post Ground	
411	0275664	Ref	CEE7 Side Ground Receptacle Installation	A
411	4661205	Ref	Receptacle, CEE7 Side Ground	
412	1001112113	NLA	Battery Temperature Sensor Harness (Includes Sensor and Instructions) (Use p/n 1001127269)	
412A	4460465	2	Socket, Female	
501	0140043	1	OPTIONAL HARNESES	
501A	4460536	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460464	3	Receptacle, Female - 3 Position	
502	2920161	1	Pin, Male	
502		Ref	Beacon Light and Harness (Separate Harness Not Available)	
502A	4460891	1	Plug, Male - 2 Position (1 Per Harness)	
502A	4460465	2	Socket, Female (2 Per Harness)	
503		Ref	Platform Electrical Outlet Components	
503		Ref	ANSI, ANSI Export, CSA, Japanese and UL Specs Options:	
503	0272839	Ref	110V with Receptacle and Plug	I
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	G
503		Ref	Australian Specs Options:	
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	G
503		Ref	CE Specs Options:	
503	0275520	NLA	110V with IEC Yellow Receptacle and Plug and Circuit Breaker	C

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503	0272843	Ref	(Use p/n 0275487) 220V without Receptacle and Plug (Locally Supplied Components) (All Models)	G
503	0275521	NLA	220V with IEC Blue Receptacle and Plug and Circuit Breaker (Use p/n 0275488)	C
503	0275519	NLA	220V with AFSINT 107 Keyed Ground Receptacle and Plug and Circuit Breaker (Use p/n 0275486)	C
503	0275517	NLA	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (2x4 Box) (Use p/n 0275472)	C
503	0275522	NLA	220V with CEE7 Post Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (Use p/n 0275489)	D
503	0275518	NLA	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Single Box) (Use p/n 0275485)	C
503	1001096628	Ref	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Dual Boxes) (Note: Qty shown is for single Receptacle Box. Double Qty listed for Dual Receptacle Boxes)	A
503	0275523	NLA	220V with CEE7 Side Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (Use p/n 0275490)	D
503		Ref	Decal - AC Power (Not Shown)	
503	1703464	1	Decal - AC Power 110V	
503	3252507	1	Decal - AC Power 220V	
503A		Ref	Box, Switch Options:	
503A	0861731	1	Box, Switch 0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
503A	Not Available	1	Box, Switch 0272843 Installation (Purchase Locally)	
503A	4460315	1	Box, Switch 0272839 Installation (Terminal, Spade) (Not Shown)	
503A	0861781	1	Box, Switch 0275487 & 0275488 Installations	
503A	See Note	1	Box, Switch 0275774/0275775 Installations (Note: Was p/n 0861782 which is no longer available. Use p/n 1001100344 CEE7 Side Ground Service Kit or p/n 1001100343 CEE7 Post Ground Service Kit. Kits includes Box p/n 1001141967 & Items 503B, 503D & 503E)	
503A	1001141967	1	Box, Switch 1001100343, 1001100344, 1001141970 & 1001141971 Service Kits	
503B		Ref	Cover Options:	
503B	1671207	1	Cover 0272839 Installation	
503B	Not Available	1	Cover 0272843 Installation (Purchase Locally)	
503B	4461244	1	Cover 0275472 Installation (Includes Receptacle)	
503B	4461245	1	Cover 0275485 & 1001096628 Installations (Includes Receptacle)	
503B	4461246	1	Cover 0275486 Installation (Includes Receptacle)	
503B	4461198	1	Cover 0275487 Installation (Includes Receptacle)	
503B	4461201	1	Cover 0275488 Installation (Includes Receptacle)	
503B	4461204	NLA	Cover 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503B	1001141971	NLA	Cover 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503B	4461207	NLA	Cover 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503B	1001141970	NLA	Cover 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503B	1001141968	1	Cover 1001100343 & 1001141971 Service Kits	
503B	1001141969	1	Cover 1001100343 & 1001141970 Service Kits	
503C		Ref	Connector, Strain Relief Options:	
503C	4460662	1	Connector, Strain Relief 0272839, 0275472, 0275485,	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503C	Not Available	1	0275486 & 1001096628 Installations Connector, Strain Relief 0272843 Installation (Purchase Locally)	
503C	4461257	1	Connector, Strain Relief 0275487, 0275488, 0275489 & 0275490 Installations (90)	
503C	4461258	1	Connector, Strain Relief 0275487, 0275488, 0275489 & 0275490 Installations (Adapter)	
503C	4460633	1	Connector, Strain Relief 0275520 & 0275521 Installations	
503C	4460428	1	Connector, Strain Relief 0275522 & 0275523 Installations	
503D		Ref	Receptacle, Electrical Options:	
503D	4460346	1	Receptacle, Electrical 0272839 Installation	
503D	Not Available	1	Receptacle, Electrical 0272843 Installation (Purchase Locally)	
503D	4461244	1	Receptacle, Electrical 0275472 Installation (Includes Cover)	
503D	4461245	1	Receptacle, Electrical 0275485 & 1001096628 Installations (Includes Receptacle)	
503D	4461246	1	Receptacle, Electrical 0275486 Installation (Includes Cover)	
503D	4461198	1	Receptacle, Electrical 0275487 Installation (includes Cover)	
503D	4461201	1	Receptacle, Electrical 0275488 Installation (Includes Cover)	
503D	4461204	NLA	Receptacle, Electrical 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503D	1001141971	NLA	Receptacle, Electrical 0275489 Installation (Includes Receptacle) (Use p/n 1001100343)	
503D	4461207	NLA	Receptacle, Electrical 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503D	1001141970	NLA	Receptacle, Electrical 0275490 Installation (Includes Receptacle) (Use p/n 1001100344)	
503D	1001141968	1	Receptacle, Electrical 1001100343 & 1001141971 Service Kits	
503D	1001141969	1	Receptacle, Electrical 1001100343 & 1001141970 Service Kits	
503E		Ref	Plug End Options:	
503E	4460138	1	Plug End 0272839 Installation (Male)	
503E	Not Available	1	Plug End 0272843 Installation (Purchase Locally)	
503E	4461202	1	Plug End 0275472/0275489 Installations and 1001100343/1001141971 Service Kits (Male)	
503E	4461203	1	Plug End 0275472/0275489 Installations and 1001100343/1001141971 Service Kits (Female)	
503E	4461205	1	Plug End 0275485/1001096628 Installations and 1001100344/1001141970 Service Kits (Male)	
503E	4461206	1	Plug End 0275485/1001096628 Installations and 1001100344/1001141970 Service Kits (Female)	
503E	4461249	1	Plug End 0275486 Installation (Male)	
503E	4461250	1	Plug End 0275486 Installation (Female)	
503E	4461196	1	Plug End 0275487 Installation (Male)	
503E	4461197	1	Plug End 0275487 Installation (Female)	
503E	4461199	1	Plug End 0275488 Installation (Male)	
503E	4461200	1	Plug End 0275488 Installation (Female)	
503E	4461202	1	Plug End 0275489 Installation (Male)	
503E	4461203	1	Plug End 0275489 Installation (Female)	
503E	4461205	1	Plug End 0275490 Installation (Male)	
503E	4461206	1	Plug End 0275490 Installation (Female)	
503F		Ref	Hardware Options:	
503F	4010405	AR	Screw M4 x 10mm	
503F	4010408	AR	Screw M4 x 16mm	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503F	4010612	AR	Screw M6 x 16mm	
503F	4191706	AR	Screw M6 x 12mm	
503F	4191708	AR	Screw M6 x 20mm	
503F	0760619	AR	Screw M6 x 55mm	
503F	3290405	AR	Locknut M4	
503F	3290605	AR	Locknut M6	
503F	3290607	AR	Locknut M6	
503F	4811400	AR	Flatwasher M4	
503F	1001091102	AR	Flatwasher M4 Oversize	
503F	4811700	AR	Flatwasher M6	
503G		Ref	Bracket, Receptacle Box Mounting Options:	
503G	Not Required	0	Bracket, Receptacle Box Mounting 0272839, 0272843, 0275472, 0275485, 0275486 & 1001096628 Installations	
503G	0903569	1	Bracket, Receptacle Box Mounting 0275487, 0275488, 0275489 & 0275490 Installations	
503G	0903484	1	Bracket, Receptacle Box Mounting 1001096628 Installation (2nd Receptacle Box Only)	
503H	0903566	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec Installations except 0272843 Installation)	
503H	1001096627	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec 1001096628 Installation)	
503J	2902541	AR	Circuit Breaker Box Assembly (Required Only on CE Spec Installations except 0272843 Installation):	G
503J		Ref	Circuit Breaker Options:	
503J	1001109475	NLA	Circuit Breaker - 16A (Use p/n 1001181045)	
503J	1001109482	NLA	Circuit Breaker - 30mA (Use p/n 1001181045)	
503J	4460957	1	Terminal Block	
503J	4460956	1	Barrier, Terminal Block	
503K	1001097150	1	Connector, Strain Relief (Required Only on CE Spec Installations except 0272843 Installation)	
503L	1060908	55 in/1.4m	Cable, Extension (Required Only on CE Spec Installations except 0272843 Installation)	
503M	1060908	55 in/1.4m	Cable, Electrical (Required Only on CE Spec 1001096628 Installation) (Not Shown - Connects 2 Receptacle Boxes)	
	2902431	1	Receptacle Box Kit (110V GFI) (Includes Items 503A-503D) (0272839 Installation)	C
	0275216	1	Receptacle, Box and Plug Kit (110V IEC Yellow) (Includes Items 503A, 503B, 503C & Male 503E Plug End) (0275487 Installation)	1
	0275217	1	Receptacle, Box and Plug Kit (220V IEC Blue) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275488 Installation)	1
	0275452	1	Receptacle Box Kit (220V CEE7 Post Ground with 2x4 Box) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275472 Installation)	1
	0275218	NLA	Receptacle, Box and Plug Kit (220V CEE7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation) (Use p/n 1001141971)	B-A
	1001141971	NLA	Receptacle, Box and Plug Kit (220V CEE7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation)	B-A
	0275453	1	Receptacle Box Kit (220V CEE7 Side Ground with 2x4 Box) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275485 & 1001096628 Installation)	1
	0275219	NLA	Receptacle, Box and Plug Kit (220V CEE7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation) (Use p/n 1001141970)	B-A

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001141970	NLA	Receptacle, Box and Plug Kit (220V CEE7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation)	B-A
	0275454	1	Receptacle, Box and Plug Kit (220V AFSINT 107 Keyed Ground) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275486 Installation)	1
504		Ref	Brake Disconnect/Release Switch Components	
504A	4922944	1	Brake Disconnect Harness and Switch	E
504A	1060680	15 ft/2.7m	Cable, Electrical 18/2	
504A	4240003	1	Strap, Cinch (Not Shown)	
504B	4360613	1	Switch, Limit	
504C	4360387	1	Brake Release Switch	
505		Ref	Battery Charger/Inverter Components (ANSI and CSA Option Only):	
505A	Not Available	1	AC Output Harness (Internal Part of Inverter)	
505B	Not Available	1	Receptacle, Female - 4 Position (Conxall T9014)	
505C	Not Available	1	AC Input Harness (Internal Part of Inverter)	
505D	Not Available	1	Receptacle, Female - 4 Position (Conxall T9016)	
505E	Not Available	1	Remote Control Harness (Internal Part of Inverter)	
505F	Not Available	1	Plug, Male - 8 Position (Conxall 7281-8PG-300)	
505G	4923389	NLA	AC Input Harness (Use p/n 1001091479)	A-D
505H	4460138	1	Plug, Male	
505J	Not Available	1	Plug, Male - 4 Position (Conxall T9017)	
505K	4923390	1	AC Output Harness	D
505L	4460779	1	Receptacle, Female	
505M	Not Available	1	Plug, Male - 4 Position (Conxall T9015)	
505N	4923391	1	Data Interface Harness	E
505P	Not Available	1	Plug, Male - 8 Position (Conxall 6280-8SG-318)	
505R	4460899	1	Receptacle, Female - 6 Position	
505R	4460464	4	Pin, Male	
505R	4460466	2	Plug, Seal	
505R	3990010	1	Diode 6A/600V	
505S	4360336	1	Switch, Toggle	
505T	4460424	2	Receptacle, Female - 2 Position	
505T	4460267	2	Pin, Male	
505U	4923392	1	Cable, Battery + to Inverter +	A
505V	4923393	1	Cable, Battery - to Inverter -	A
506	1001093556	1	MDI Harness	B
506A	4460321	1	Plug, Male	
506A	4460226	4	Socket, Female	
506B	4460868	1	Plug, Male - 6 Position	
506B	4460877	4	Terminal	
506B	1001094105	1	Boot	
		Ref	Tools for Service	
601	7002821	1	Crimper, Wire (Not Shown)	
602	7002823	1	Extractor, Pin - Universal (Not Shown)	
603	4460467	AR	Extractor, Pin #16 Gauge (Not Shown)	
604	4460510	AR	Extractor, Pin #12 Gauge (Not Shown)	
605	7002828	1	Stripper, Wire (Not Shown)	
606	2901443	1	Analyzer Kit (Not Shown)	
606A	1600244	1	Analyzer	
606B	1060633	1	Cable, Analyzer	

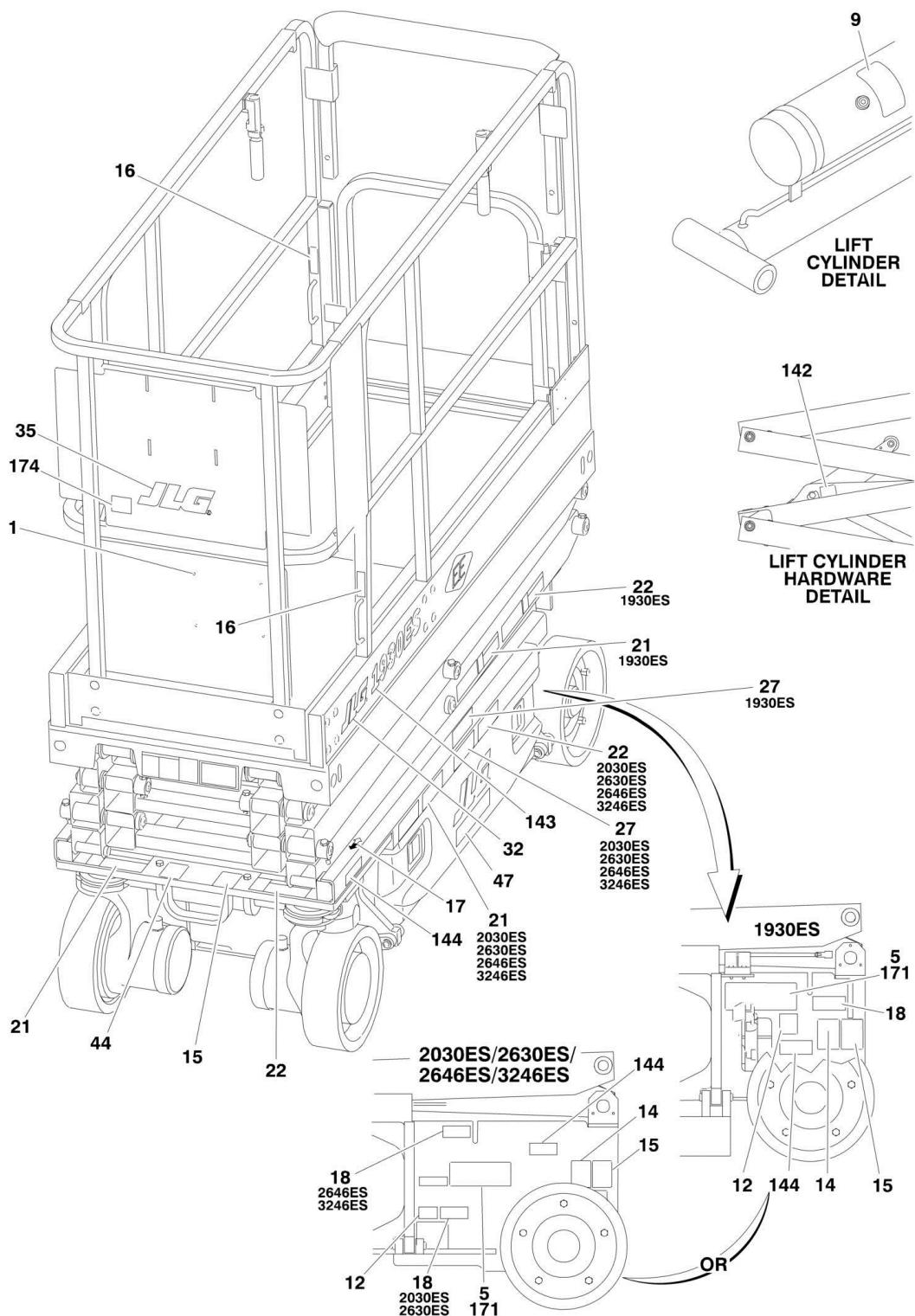
SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
606C	4460321	2	Plug, Male - 4 Position	
606C	4460226	8	Socket, Female	
607	1001137005	1	Software Cables Kit (Not Shown)	

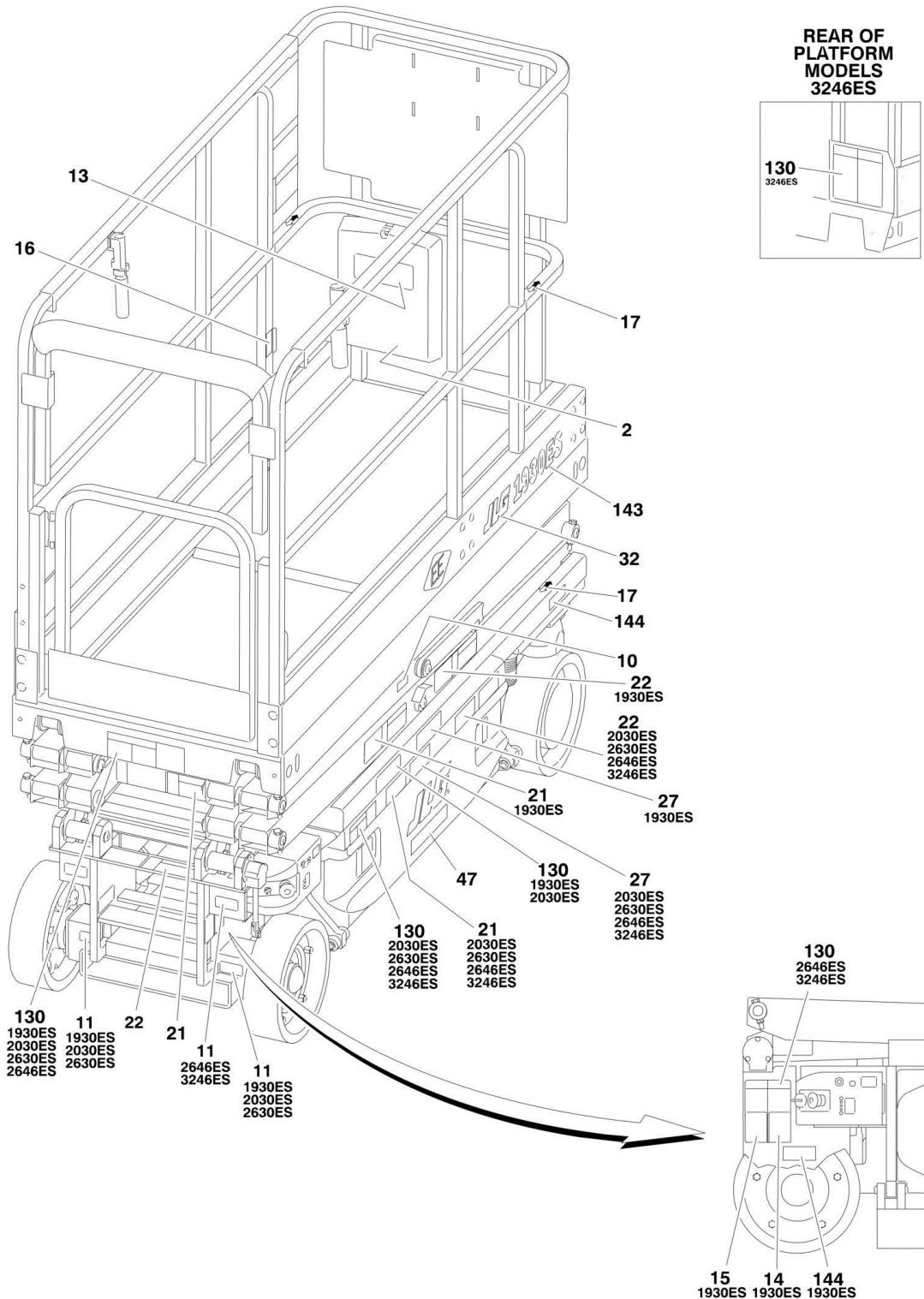
SECTION 8 - DECALS

SECTION 8 - DECALS

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC)



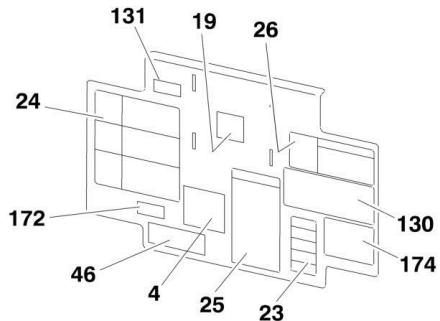
SECTION 8 - DECALS



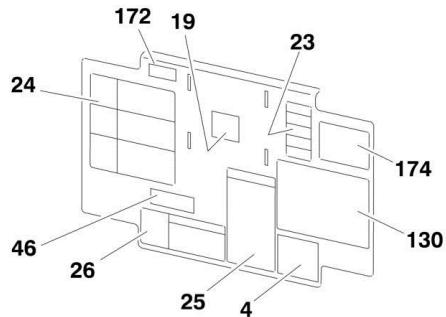
SECTION 8 - DECALS

PLATFORM DECAL PANEL DETAILS

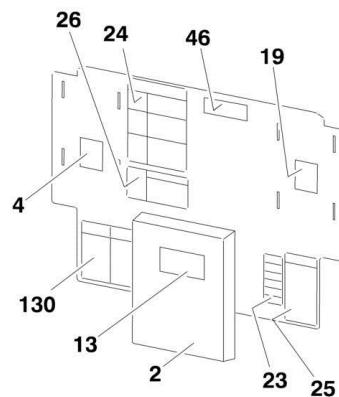
MODEL 1930ES



MODELS 2030ES & 2630ES



MODELS 2646ES & 3246ES



SECTION 8 - DECALS

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC)

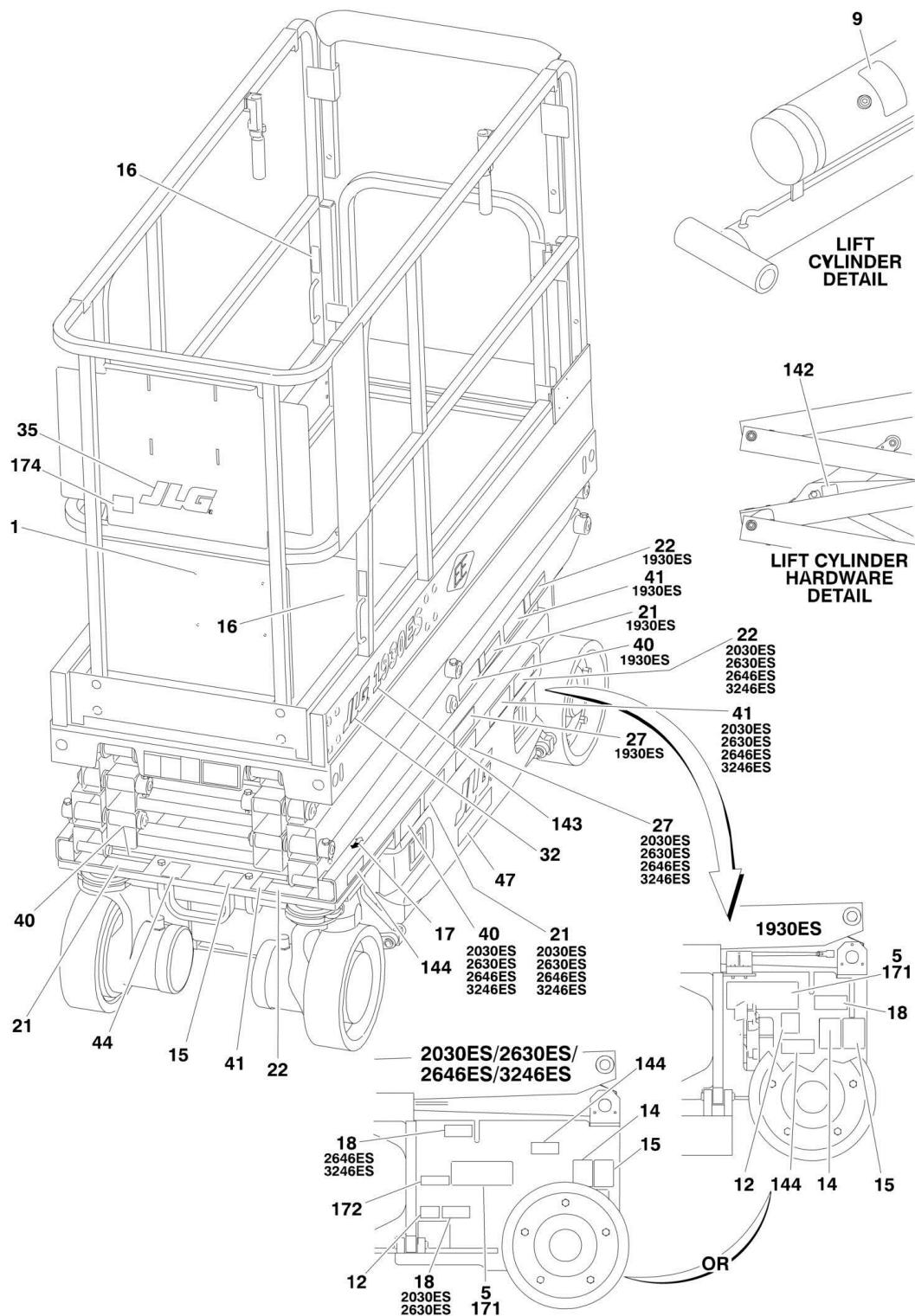
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECALS INSTALLATION	
	0275220	Ref	Decals Installation 1930ES/2030ES/2630ES/2646ES/3246ES	B
	0272870	Ref	JLG Decals	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
4		Ref	Decal - Patent Options:	
4	1700584	1	Decal - Patent USA Built Machines (SN 0200198014 through 0200205404)	
4	1700584	1	Decal - Patent China Built Machines (SN B200000100 through B200003184)	
4	1001131270	1	Decal - Patent USA Built Machines 1930ES/2646ES/3246ES (SN 0200205405 through 0200239381)	
4	1001131270	1	Decal - Patent USA Built Machines 2030ES/2630ES (SN 0200205405 to Present)	
4	1001131270	1	Decal - Patent China Built Machines 1930ES/2646ES/3246ES (SN B200003185 through B200020296)	
4	1001131270	1	Decal - Patent China Built Machines 2030ES/2630ES (SN B200003185 to Present)	
5	2080057	4	Fastener	
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 - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
21	1705694	4	Decal - Crushing Hazard	
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 Vent	
32	1705781	2	Decal - JLG	
35	1702773	1	Decal - JLG	
39		Ref	Decal - AC Power Options:	
39	1703464	1	Decal - AC Power 120-60Hz	
39	3252507	1	Decal - AC Power 220V-50/60Hz	
44	1701499	1	Decal - No Lift	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - Battery Service (USA Built Machines) 1930ES/2646ES/3246ES (SN 0200215384 through 0200239381)	
47	1001146794	2	Decal - Battery Service (USA Built Machines) 2030ES/2630ES (SN 0200215384 to Present)	
47	1001146794	2	Decal - Battery Service (China Built Machines) 1930ES/2646ES/3246ES (SN B200011011 through B200020296)	

SECTION 8 - DECALS

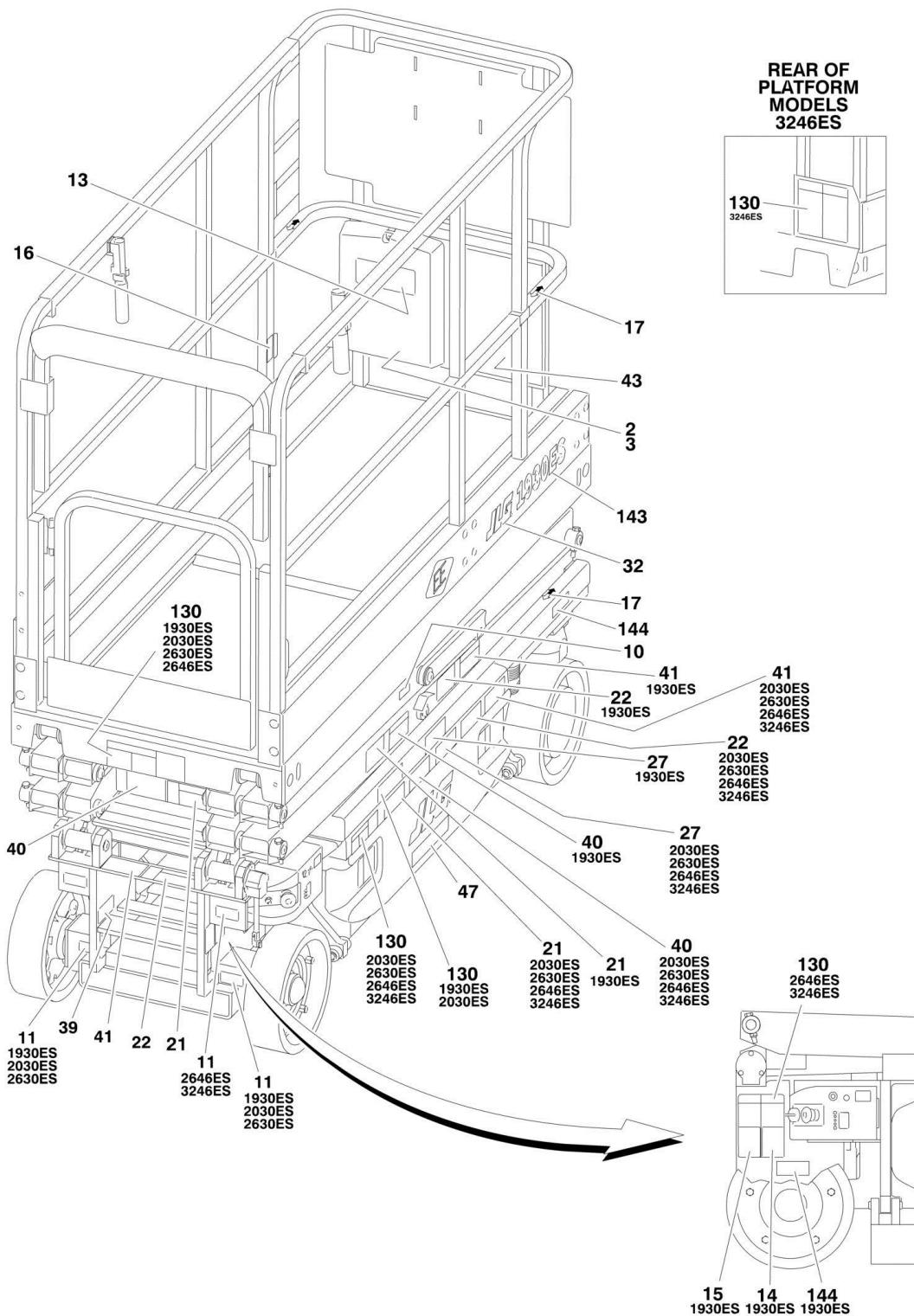
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	1001146794	2	Decal - Battery Service (China Built Machines) 2030ES/2630ES (SN B200011011 to Present)	
	0010588	Ref	DECAL OPTIONS	
130		Ref	Decal - Capacity Options:	
130		Ref	Decal - Capacity 1930ES:	
130	1705638	2	Decal - Capacity 500lbs/227kg (Platform Box and Platform Entry Locations)	
130	1705699	1	Decal - Capacity 500lbs/227kg (Ground Control Box Location)	
130	1705639	3	Decal - Capacity 2030ES: 800lbs/363kg (All Locations)	
130		Ref	Decal - Capacity 2630ES:	
130	1705941	1	Platform Console Box Decal - 500lb/227kg & 800lb/360kg	
130	1705880	1	Platform Entry Decal - 500lb/227kg & 800lb/360kg	
130	1705941	1	Ground Control Box Decal - 500lb/227kg & 800lb/360kg	
130	1705640	3	Decal - Capacity 2646ES: 1000lbs/454kg	
130	1705641	3	Decal - Capacity 3246ES: 700lbs/317kg	
131		Ref	Decal - No Pipe Racks/Panel Carriers Options:	
131	1001092071	1	Decal - No Pipe Racks/Panel Carriers 1930ES	
131	Not Required	0	Decal - No Pipe Racks/Panel Carriers 2030ES/2630ES/2646ES/3246ES	
142	1001116928	NLA	Decal - Hardware Retention (Use p/n 1001116915)	
143		Ref	Decal - Model Designation Options:	
143	1001099919	2	Decal - Model Designation 1930ES	
143	1001099920	2	Decal - Model Designation 2030ES	
143	1001099921	2	Decal - Model Designation 2630ES	
143	1001099922	2	Decal - Model Designation 2646ES	
143	1001099923	2	Decal - Model Designation 3246ES	
144		Ref	Decal - Max Tire Load Options:	
144	1705647	4	Decal - Max Tire Load 1930ES	
144	1706310	4	Decal - Max Tire Load 2030ES/2630ES	
144	1706311	4	Decal - Max Tire Load 2646ES/3246ES	
171	Not Available		Nameplate - Serial Number	
174	3251813	1	Decal - Made in USA	
		Ref	Complete Decal Kit Options (Includes Items 4, 9-46 & 130-174):	
	1001149795	1	Complete Decal Kit 1930ES	A
	1001149796	1	Complete Decal Kit 2030ES	A
	1001149797	1	Complete Decal Kit 2630ES	A
	1001149798	1	Complete Decal Kit 2646ES	A
	1001149799	1	Complete Decal Kit 3246ES	A

SECTION 8 - DECALS

FIGURE 8-2. DECALS INSTALLATIONS (ANSI EXPORT SPEC)



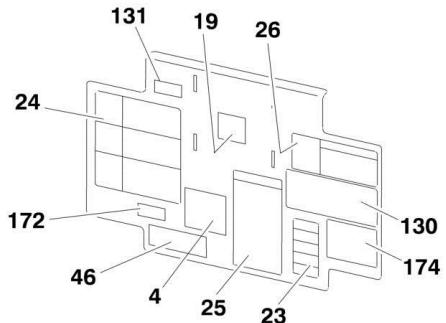
SECTION 8 - DECALS



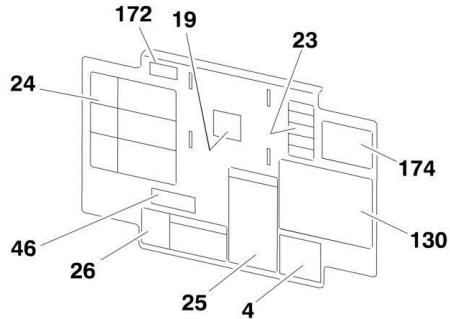
SECTION 8 - DECALS

PLATFORM DECAL PANEL DETAILS

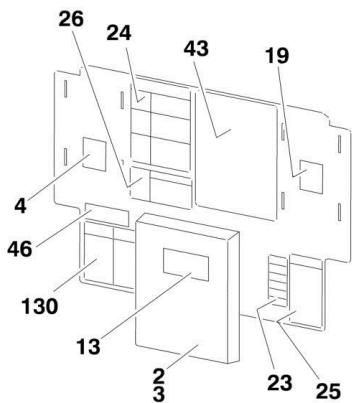
MODEL 1930ES



MODELS 2030ES & 2630ES



MODELS 2646ES & 3246ES



SECTION 8 - DECALS

FIGURE 8-2. DECALS INSTALLATIONS (ANSI EXPORT SPEC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			DECALS INSTALLATION - ANSI EXPORT SPECS	
	0275225	Ref	Brazilian Spec (Portuguese/Spanish Spec)	B
	0275226	Ref	Chinese Specs (English/Chinese Spec)	B
	0275223	Ref	CSA Spec (English/French)	B
	0275227	Ref	Korean Spec	B
	0275224	Ref	Latin American Spec (English/Spanish)	B
	0272870	Ref	JLG Decals	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
3	1060279	1	Cable, Lanyard	
4		Ref	Decal - Patent Options:	
4	1700584	1	Decal - Patent All Specs except CSA Spec (USA Built Machines) (SN 0200198014 through 0200205404)	
4	1700584	1	Decal - Patent All Specs except CSA Spec (China Built Machines) (SN B200000100 through B200003184)	
4		Ref	CSA Spec	
4	1700584	1	Decal - Patent USA Built Machines (SN 0200198014 through 0200205404)	
4	1700584	1	Decal - Patent China Built Machines (SN B200000100 through B200003184)	
4	1001131270	1	Decal - Patent USA Built Machines 1930ES/2646ES/3246ES (SN 0200205405 through 0200239381)	
4	1001131270	1	Decal - Patent USA Built Machines 2030ES/2630ES (SN 0200205405 to Present)	
4	1001131270	1	Decal - Patent China Built Machines 1930ES/2646ES/3246ES (SN B200003185 through B200020296)	
4	1001131270	1	Decal - Patent China Built Machines 2030ES/2630ES (SN B200003185 to Present)	
5	2080057	4	Fastener	
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	3	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
21		Ref	Decal - Crushing Hazard	
21	1705694	4	Decal - Crushing Hazard All Specs except Brazilian Spec	
21	1705722	4	Decal - Crushing Hazard Brazilian Spec	
22		Ref	Decal - Danger Electrocution	
22	1705695	4	Decal - Danger Electrocution All Specs except Brazilian Spec	
22	1703834	4	Decal - Danger Electrocution Brazilian Spec	
23		Ref	Decal - Legend	
23	1705726	1	Decal - Legend Brazilian Spec	
23	1705946	1	Decal - Legend Chinese Spec	
23	1705723	1	Decal - Legend CSA Spec	
23	1706057	1	Decal - Legend Korean Spec	

SECTION 8 - DECALS

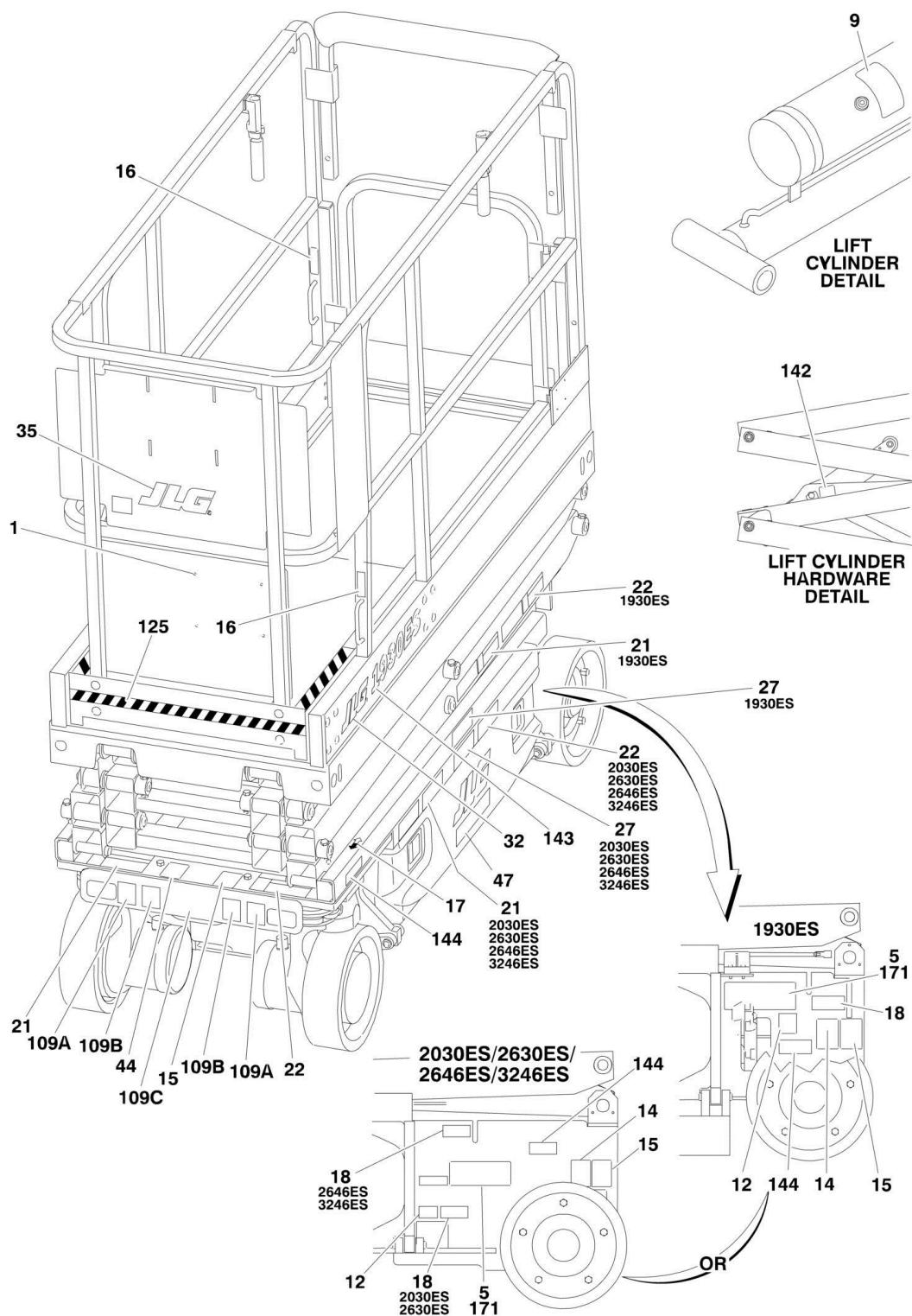
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	1705720	1	Decal - Legend Latin American Spec	
24		Ref	Decal - Danger/Warning	
24	1705680	1	Decal - Danger/Warning All Specs except Brazilian Spec	
24	1705894	1	Decal - Danger/Warning Brazilian Spec	
25		Ref	Decal - Inspection	
25	1705679	1	Decal - Inspection All Specs except Brazilian Spec	
25	1705727	1	Decal - Inspection Brazilian Spec	
26		Ref	Decal - Electrocution	
26	1705681	1	Decal - Electrocution All Specs except Brazilian Spec	
26	1705721	1	Decal - Electrocution Brazilian Spec	
27		Ref	Decal - Warning Battery Vent	
27	1704341	2	Decal - Warning Battery Vent Brazilian Spec	
27	1704344	2	Decal - Warning Battery Vent Chinese Spec	
27	1704340	2	Decal - Warning Battery Vent CSA Spec	
27	1703856	2	Decal - Warning Battery Vent Korean Spec	
27	1704339	2	Decal - Warning Battery Vent Latin American Spec	
32	1705781	2	Decal - JLG	
35	1702773	1	Decal - JLG	
39		Ref	Decal - AC Power Options:	
39	1703464	1	Decal - AC Power 120-60Hz	
39	3252507	1	Decal - AC Power 220V-50/60Hz	
40		Ref	Decal - Crushing Hazard Options:	
40	1705725	4	Decal - Crushing Hazard Brazilian and Latin American Specs	
40	1705717	4	Decal - Crushing Hazard CSA Spec	
40	1705943	4	Decal - Crushing Hazard Chinese Spec	
40	1706052	4	Decal - Crushing Hazard Korean Spec	
41		Ref	Decal - Electrocution Options:	
41	1705724	4	Decal - Electrocution Brazilian and Latin American Specs	
41	1705718	4	Decal - Electrocution CSA Spec	
41	1705944	4	Decal - Electrocution Chinese Spec	
41	1706056	4	Decal - Electrocution Korean Spec	
43		Ref	Decal - Warning/Danger Options:	
43	1705719	1	Decal - Warning/Danger Brazilian and Latin American Specs	
43	3252098	1	Decal - Warning/Danger CSA Spec (English/French)	
43	1705945	1	Decal - Warning/Danger Chinese Spec	
43	1706053	1	Decal - Warning/Danger Korean Spec	
44	1701499	1	Decal - No Lift	
46	1001094359	1	Decal - Troubleshooting	
47	1001146794	2	Decal - Battery Service (USA Built Machines) 1930ES/2646ES/3246ES (SN 0200215384 through 0200239381)	
47	1001146794	2	Decal - Battery Service (USA Built Machines) 2030ES/2630ES (SN 0200215384 to Present)	
47	1001146794	2	Decal - Battery Service (China Built Machines) 1930ES/2646ES/3246ES (SN B200011011 through B200020296)	
47	1001146794	2	Decal - Battery Service (China Built Machines) 2030ES/2630ES (SN B200011011 to Present)	
	0010588	Ref	DECAL OPTIONS	83
130		Ref	Decal - Capacity Options:	
130		Ref	Decal - Capacity 1930ES:	
130	1705638	2	Decal - Capacity 1930ES 500lbs/227kg (Platform Box and Platform Entry Locations)	

SECTION 8 - DECALS

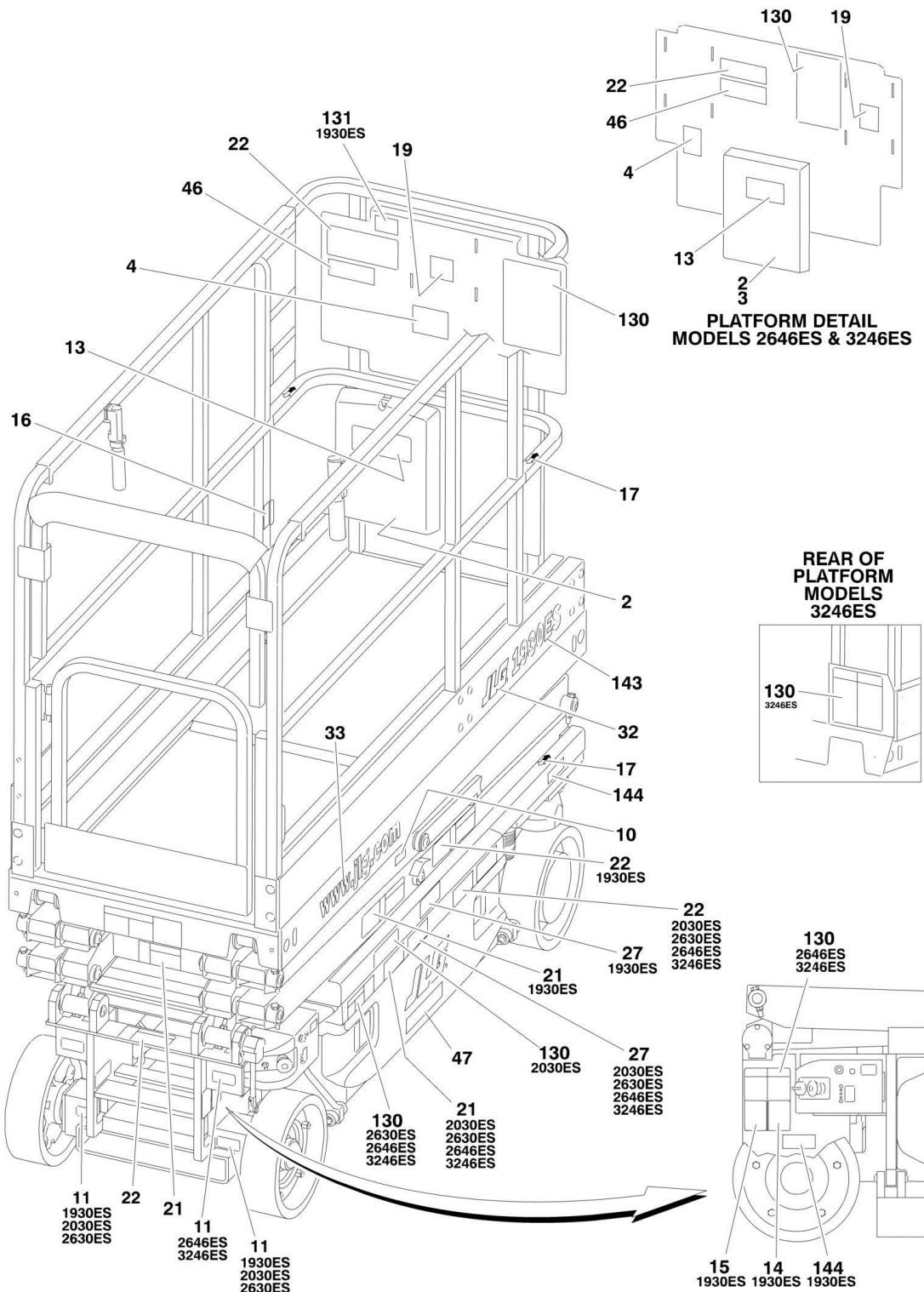
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
130	1705699	1	Decal - Capacity 1930ES 500lbs/227kg (Ground Control Box Location)	
130	1705639	3	Decal - Capacity 2030ES: 800lbs/363kg (All Locations)	
130		Ref	Decal - Capacity 2630ES:	
130	1705941	1	Platform Console Box Decal - 500lb/227kg & 800lb/360kg	
130	1705880	1	Platform Entry Decal - 500lb/227kg & 800lb/360kg	
130	1705941	1	Ground Control Box Decal - 500lb/227kg & 800lb/360kg	
130	1705640	3	Decal - Capacity 2646ES: 1000lbs/454kg	
130	1705641	3	Decal - Capacity 3246ES: 700lbs/317kg	
131		Ref	Decal - No Pipe Racks/Panel Carriers Options:	
131		Ref	Decal - No Pipe Racks/Panel Carriers 1930ES	
131	1001092071	1	Decal - No Pipe Racks/Panel Carriers 1930ES ANSI Export/UL Specs	
131	1001092071	NLA	Decal - No Pipe Racks/Panel Carriers 1930ES Brazilian and Latin American Specs (Use p/n 1001120623)	
131	1001092580	1	Decal - No Pipe Racks/Panel Carriers 1930ES CSA Spec	
131	1001092071	NLA	Decal - No Pipe Racks/Panel Carriers 1930ES Chinese Spec (Use p/n 1001120622)	
131	1001092071	NLA	Decal - No Pipe Racks/Panel Carriers 1930ES Korean Spec (Use p/n 1001120621)	
131	1001092071	NLA	Decal - No Pipe Racks/Panel Carriers 1930ES Latin American Spec (Use p/n 1001120629)	
131	Not Required	0	Decal - No Pipe Racks/Panel Carriers 2030ES/2630ES/2646ES/3246ES	
142	1001116928	NLA	Decal - Hardware Retention (Use p/n 1001116915)	
143		Ref	Decal - Model Designation Options:	
143	1001099919	2	Decal - Model Designation 1930ES	
143	1001099920	2	Decal - Model Designation 2030ES	
143	1001099921	2	Decal - Model Designation 2630ES	
143	1001099922	2	Decal - Model Designation 2646ES	
143	1001099923	2	Decal - Model Designation 3246ES	
144		Ref	Decal - Max Tire Load Options:	
144	1705647	4	Decal - Max Tire Load 1930ES	
144	1706310	4	Decal - Max Tire Load 2030ES/2630ES	
144	1706311	4	Decal - Max Tire Load 2646ES/3246ES	
171	Not Available		Nameplate - Serial Number	
172		Ref	Decal - CSA Options:	
172	1705303	1	Decal - CSA CSA Spec (English/French)	
172	Not Required	0	Decal - CSA Latin American Spec (English/Spanish)/(English/Chinese Spec)	
174	3251813	1	Decal - Made in USA	
176	1705880	1	Decal - Capacity (Platform Entry) (800lbs/363kg - 500lbs/227kg) (2630ES)	

SECTION 8 - DECALS

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN, CE AND JAPANESE SPECS)



SECTION 8 - DECALS



SECTION 8 - DECALS

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN, CE AND JAPANESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			DECALS INSTALLATION - ANSI EXPORT SPECS	
	0275222	Ref	Australian Spec	B
	0275221	Ref	CE and Japanese Specs	B
	0272870	Ref	JLG Decals	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
4	1700584	1	Decal - Patent (USA Built Machines) (SN 0200198014 through 0200205405)	
4	1700584	1	Decal - Patent (China Built Machines) (SN B200000100 through B200003185)	
5	2080057	4	Fastener	
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	3	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
21	1705673	4	Decal - Crushing Hazard	
22	1705671	5	Decal - Danger Electrocution	
27	1705670	1	Decal - Warning Battery Vent	
32	1705781	2	Decal - JLG	
35	1702773	1	Decal - JLG	
39		Ref	Decal - AC Power Options:	
39	1703464	1	Decal - AC Power 120-60Hz	
39	3252507	1	Decal - AC Power 220V-50/60Hz	
44	1701499	1	Decal - No Lift	
46	1001094359	1	Decal - Troubleshooting	
47		Ref	Decal - Battery Service (USA Built Machines) 1930ES/2646ES/3246ES (SN 0200215384 through 0200239381)	
47		Ref	Decal - Battery Service (USA Built Machines) 2030ES/2630ES (SN 0200215384 to Present)	
47		Ref	Decal - Battery Service (China Built Machines) 1930ES/2646ES/3246ES (SN B200011011 through B200020296)	
47		Ref	Decal - Battery Service (China Built Machines) 2030ES/2630ES (SN B200011011 to Present)	
47	1001146794	2	Decal - Battery Service Options Australian and Japanese Specs	
47	1001146795	2	Decal - Battery Service Options CE Specs	
	0010588	Ref	DECAL OPTIONS	83
109		Ref	Lifting Lug and Decals (Standard on Australian and Japanese Specs/Optional on CE Specs)	
109	0273454	AR	Lifting Lug and Decals 1930ES (All Specs except Australian Spec)	B
109	1001135753	AR	Lifting Lug and Decals 1930ES (Australian Specs)	A
109	0273454	AR	Lifting Lug and Decals 2030ES/2630ES/2646ES/3246ES	B
109A	1703811	2	Decal - Lifting Lug	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
109B	1703814	2	Decal - Tie-Down	
109C	0240055	1	Attach, Lifting Lug	
109C	3574636	1	Bar, Mounting (Located Behind Item 109C)	
125		Ref	Decal - Corner Stripe Options:	
125	0272721	AR	Decal - Corner Stripe 1930ES/2030ES/2630ES	C
125	0272862	AR	Decal - Corner Stripe 2646ES/3246ES	C
125	4420051	4.3 ft /1.3m	Decal - Corner Stripe 1930ES/2030ES/2630ES	
125	4420051	3.9 ft /1.2m	Decal - Corner Stripe 2646ES/3246ES	
130		Ref	Decal - Capacity Options:	
130	1705666	1	Decal - Capacity 230kg Indoor/120kg Outdoor (1930ES)	
130	1705667	1	Decal - Capacity 360kg (2030ES)	
130	1705887	1	Decal - Capacity 230kg (2630ES) (Australian Specs - USA Built Machines) (SN 0200198014 through 0200211630)	
130	1705887	1	Decal - Capacity 230kg (2630ES) (Australian Specs - China Built Machines) (SN B200000100 through B200007192)	
130	1705942	1	Decal - Capacity 230kg/360kg (2630ES) (Australian Specs - USA Built Machines) (SN 0200211631 to Present)	
130	1705942	1	Decal - Capacity 230kg/360kg (2630ES) (Australian Specs - China Built Machines) (SN B200007193 to Present)	
130	1705942	1	Decal - Capacity 230kg/360kg (2630ES) (CE Specs)	
130	1705668	1	Decal - Capacity 450kg (2646ES)	
130	1705819	1	Decal - Capacity 320kg/450kg (3246ES) (Australian Specs - USA Built Machines) (SN 0200198014 through 0200211630)	
130	1705819	1	Decal - Capacity 320kg/450kg (3246ES) (Australian Specs - China Built Machines) (SN B200000100 through B200007192)	
130	1705704	1	Decal - Capacity 320kg (3246ES) (Australian Specs - USA Built Machines) (SN 0200211631 through 0200239381)	
130	1705704	1	Decal - Capacity 320kg (3246ES) (Australian Specs - China Built Machines) (SN B200007193 through B200020296)	
130	1705704	1	Decal - Capacity 320kg (3246ES) (CE Spec)	
131		Ref	Decal - No Pipe Racks/Panel Carriers Options:	
131	1001092071	NLA	Decal - No Pipe Racks/Panel Carriers 1930ES (Use p/n 1001092497 for Australian Spec)	
131	Not Required	0	Decal - No Pipe Racks/Panel Carriers 2030ES/2630ES/2646ES/3246ES	
142	1001116928	NLA	Decal - Hardware Retention (Use p/n 1001116915)	
143		Ref	Decal - Model Designation Options:	
143	1001099919	2	Decal - Model Designation 1930ES	
143	1001099920	2	Decal - Model Designation 2030ES	
143	1001099921	2	Decal - Model Designation 2630ES	
143	1001099922	2	Decal - Model Designation 2646ES	
143	1001099923	2	Decal - Model Designation 3246ES	
144		Ref	Decal - Max Tire Load Options:	
144	1705648	4	Decal - Max Tire Load 1930ES	
144	1706310	4	Decal - Max Tire Load 2030ES/2630ES	
144	1706312	4	Decal - Max Tire Load 2646ES/3246ES	
171	Not Available		Nameplate - Serial Number	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. MODEL ES STANDARD PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV																																	
	Note	Ref	<p>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.</p> <p>STANDARD PARTS</p> <table><tbody><tr><td>4360069</td><td>1</td><td>Breaker, Circuit - 10 Amp</td></tr><tr><td>4360328</td><td>1</td><td>Switch, Toggle</td></tr><tr><td>2860030</td><td>1</td><td>Key, Replacement</td></tr><tr><td>4360475</td><td>1</td><td>Switch, Mushroom</td></tr><tr><td>4360387</td><td>1</td><td>Switch, Push Button</td></tr><tr><td>1001092354</td><td>1</td><td>Switch, Rotary Angle Sensor</td></tr><tr><td>1001134438</td><td>1</td><td>Controller, Drive</td></tr><tr><td>4360538</td><td>1</td><td>Switch and Membrane</td></tr><tr><td>4360539</td><td>1</td><td>Switch, Toggle</td></tr><tr><td>7027367</td><td>1</td><td>Switch, Push button</td></tr><tr><td>1001097347</td><td>1</td><td>Relay</td></tr></tbody></table>	4360069	1	Breaker, Circuit - 10 Amp	4360328	1	Switch, Toggle	2860030	1	Key, Replacement	4360475	1	Switch, Mushroom	4360387	1	Switch, Push Button	1001092354	1	Switch, Rotary Angle Sensor	1001134438	1	Controller, Drive	4360538	1	Switch and Membrane	4360539	1	Switch, Toggle	7027367	1	Switch, Push button	1001097347	1	Relay	
4360069	1	Breaker, Circuit - 10 Amp																																			
4360328	1	Switch, Toggle																																			
2860030	1	Key, Replacement																																			
4360475	1	Switch, Mushroom																																			
4360387	1	Switch, Push Button																																			
1001092354	1	Switch, Rotary Angle Sensor																																			
1001134438	1	Controller, Drive																																			
4360538	1	Switch and Membrane																																			
4360539	1	Switch, Toggle																																			
7027367	1	Switch, Push button																																			
1001097347	1	Relay																																			

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-2. MODEL ES VARIABLE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	<p>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.</p> <p>VARIABLE PARTS</p>	
	1001092456	1	Drive Module (Frame)	
	3740150	1	Relay (Non-UL Spec)	
	1001114933	1	Tilt Module	
	4360469	1	Switch, Key (ANSI/ANSI Export/Australian Spec)	
	4360470	1	Switch, Key (CE Spec)	
	3080007	1	Magnet, Latch (Machines with Platform Gate Entry)	
	1001101076	1	Snap Latch Repair Kit (Machines with Platform Chain Entry)	
	1001091965	1	Control Module (Platform)	
	1001109088	1	Switch, Limit (All Specs except UL Spec)	
	1001126905	1	Switch, Limit (UL Spec)	
	1001109475	1	Breaker, Circuit 16 Amp (CE Spec Machines with Platform Electrical Outlet)	
	1001109482	1	Breaker, Circuit 30 mA (CE Spec Machines with Platform Electrical Outlet)	
	4360613	1	Limit Switch (Machines with Optional Brake Disconnect)	
	4360336	1	Switch, Toggle (ANSI and CSA Spec Machines with Optional Battery Charger/Inverter Combo)	
	4360336	1	Switch, Toggle (ANSI Spec Machines with Optional Battery Inverter without Battery Changer)	
	70000798	1	Coil (Texas Hydraulics Cylinder)	
	70000799	1	Coil (Texas Hydraulics Cylinder)	
	7023593	1	Plug, Fill (Texas Hydraulics Cylinder)	
	7023576	1	Filter (Texas Hydraulics Cylinder)	
	70004928	1	Filter - 300 Micron (SH-Pac and Serta Lift Cylinders)	
	70003706	1	Filter - 300 Micron (SH-Pac and Serta Lift Cylinders)	
	70004921	1	Plug, Fill (SH-Pac and Serta Lift Cylinders)	
	70003707	1	Coil (SH-Pac and Serta Lift Cylinders)	
	3990010	2	Diode 6 Amp (ANSI and CSA Spec Machines with Optional Battery Charger/Inverter Combo)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-3. MODEL ES MAINTENANCE KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	<p>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.</p> <p>MAINTENANCE KITS</p>	
	1001101329	Ref 1	Annual Hydraulic Maintenance Kit - 1930ES/2030ES/2630ES (w/Standard Hydraulic Oil)	
	1001101330	1	Annual Hydraulic Maintenance Kit - 2646ES/3246ES (w/Standard Hydraulic Oil)	

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

FIGURE 10-1. SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.	
		Ref	SPECIAL OPTIONS LIST	
		Ref	Airline Installation (1/2in)	
	0274516	Ref	Airline Installation (1/2in) 1930ES	
	0274370	Ref	Airline Installation (1/2in) 2030ES	
	0274517	Ref	Airline Installation (1/2in) 2630ES	
	0274446	Ref	Airline Installation (1/2in) 2646ES/3246ES	
	1001188716	Ref	Arm Guards Installation (1930ES)	
	1001191850	Ref	Arm Guards Installation (China Built Machines) (2646ES/3246ES)	
	2915016	Ref	Battery Charger Mounting Kit	
		Ref	Beacon Light Installation with 2 Lights	
	1001190009	Ref	2 Beacon Installation (1930ES)	
	1001190011	Ref	2 Beacon Installation (2030ES/2630ES)	
	1001190010	Ref	2 Beacon Installation (2646ES/3246ES)	
		Ref	Brake Disconnect/Release Kit Options	
	0275432	Ref	Brake Disconnect Cable Kit (Optional All Specs)	
	2902331	Ref	Brake Mount Kit (Includes Mounting Bracket and Setscrew)	
	4922944	Ref	Brake Switch and Harness	
	0275530	Ref	Brake Release Switch (Optional ANSI, ANSI Export, CSA and UL Specs/Standard on Australian and CE Specs) For Machines without Pressure Checks)	
	See Note	Ref	Brake Release Switch (Optional ANSI, ANSI Export, CSA and UL Specs/Standard on Japanese Specs) (For Machines with Pressure Checks) (Was p/n 0275603) (Note: Use Both p/ns 0275530 & 0273859)	
		Ref	Decal Options:	
		Ref	Decals - Boels	
		Ref	USA Built Machines (SN 0200198014 through 0200224416)	
		Ref	China Built Machines (SN B200000100 through B200014821)	
	1001110179	Ref	Decal 1930ES CE Spec - Dutch Belgium	
	1001106715	Ref	Decal 1930ES CE Spec - Dutch Netherlands	
	1001109207	Ref	Decal 1930ES CE Spec - French	
	1001110176	Ref	Decal 1930ES CE Spec - German Austria	
	1001109146	Ref	Decal 1930ES CE Spec - German Deutchland	
	1001109210	Ref	Decal 1930ES CE Spec - TJECH	
	1001110180	Ref	Decal 2030ES CE Spec - Dutch Belgium	
	1001106716	Ref	Decal 2030ES CE Spec - Dutch Netherlands	
	1001109208	Ref	Decal 2030ES CE Spec - French	
	1001110177	Ref	Decal 2030ES CE Spec - German Austria	
	1001109147	Ref	Decal 2030ES CE Spec - German Deutchland	
	1001109211	Ref	Decal 2030ES CE Spec - TJECH	
	1001110181	Ref	Decal 2646ES/3246ES CE Spec - Dutch Belgium	
	1001106717	Ref	Decal 2646ES/3246ES CE Spec - Dutch Netherlands	
	1001109209	Ref	Decal 2646ES/3246ES CE Spec - French	
	1001110178	Ref	Decal 2646ES/3246ES CE Spec - German Austria	
	1001109148	Ref	Decal 2646ES/3246ES CE Spec - German Deutchland	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001109212	Ref	Decal 2646ES/3246ES CE Spec - TJECH	
		Ref	USA Built Machines 1930ES/2646ES/3246ES (SN 0200224417 through 0200239381)	
		Ref	USA Built Machines 2030ES/2630ES (SN 0200224417 to Present)	
		Ref	China Built Machines 1930ES/2646ES/3246ES (SN B200014822 through B200020296)	
		Ref	China Built Machines 2030ES/2630ES (SN B200014822 to Present)	
	1001154509	Ref	Decals - Boels 1930ES ANSI Export and CE Specs	
	1001154507	Ref	Decals - Boels 2030ES/2630ES ANSI Export and CE Specs	
	1001154508	Ref	Decals - Boels 2646ES/3246ES ANSI Export and CE Specs	
	2890186	Ref	Decals - CE Kit	
	0272721	Ref	Decals - Corner Stripes 1930ES	
	0272721	Ref	Decals - Corner Stripes 2030ES/2630ES (SN 0200224417 to Present, SN B200014822 to Present)	
	0272862	Ref	Decals - Corner Stripes 2646ES/3246ES	
	0273603	Ref	Decals - Commercial Solutions Group (ANSI and CSA Specs Only)	
	1705304	Ref	Decals - Service Support (Commercial Solutions Group Only) (ANSI, CSA and UL Specs Only)	
	0274545	Ref	Decals - FedEx (ANSI, CE, CSA and UL Specs Only)	
	0273603	Ref	Decals - Grainger Spec (ANSI, CSA and UL Specs Only)	
	0274527	Ref	Decals - Head and Engquist Equipment (ANSI Specs Only)	
	0273543	Ref	Decals - Hertz (All Models - USA Built Machines) (ANSI, CSA and Specs Only) (SN 0200198014 through 0200202468)	
	0273543	Ref	Decals - Hertz (All Models - Belgium Built Machines) (ANSI, CSA and Specs Only) (SN 1200008481 through 1200024983)	
	0273543	Ref	Decals - Hertz (All Models - China Built Machines) (ANSI, CSA and Specs Only) (SN B200000100 through B200001838)	
	1001128998	Ref	Decals - Hertz (1930ES - USA Built Machines) (ANSI, CSA and UL Specs Only) (SN 0200202469 through 0200239381)	
	1001128998	Ref	Decals - Hertz (1930ES - China Built Machines) (ANSI, CSA and UL Specs Only) (SN B200001839 through B200020296)	
	1001128999	Ref	Decals - Hertz (2030ES/2630ES - USA Built Machines) (ANSI, CSA and UL Specs Only) (SN 0200202469 to Present)	
	1001128999	Ref	Decals - Hertz (2030ES/2630ES China Built Machines) (ANSI, CSA and UL Specs Only) (SN B200001839 to Present)	
	1001129000	Ref	Decals - Hertz (2646ES/3246ES - USA Built Machines) (ANSI, CSA and UL Specs Only) (SN 0200202469 through 0200239381)	
	1001129000	Ref	Decals - Hertz (2646ES/3246ES - China Built Machines) (ANSI, CSA and UL Specs Only) (SN B200001839 through B200020296)	
	0272877	Ref	Decals - Home Depot (ANSI, CSA and UL Specs Only)	
	0273544	Ref	Decals - Nations Rent (ANSI, CSA and UL Specs Only)	
	0274242	Ref	Decals - Nations Equipment Services (1930ES/2030ES/2630ES) (ANSI, CSA and UL Specs Only)	
	0274251	Ref	Decals - Nations Equipment Services (2646ES/3246ES) (ANSI, CSA and UL Specs Only)	
	0275900	Ref	Decals - RSC Equipment Rental (ANSI and CSA Specs Only)	
	1705304	Ref	Decals - Service Support (ANSI and CSA Specs Only)	
	1706922	Ref	Decals - Service Support (ANSI and CSA Specs Only)	
	0272872	Ref	Decals - Sunbelt (ANSI, CSA and UL Specs Only)	
	0274179	Ref	Decals - Sunstate (ANSI, CSA and UL Specs Only)	
	1001151156	Ref	Decals - Titan Rentals (ANSI and CSA Specs Only)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274126	Ref	Decals - UL Specs (EE Rating) (USA Built Machines)	
	1001126013	Ref	Decals - UL Specs (EE Rating) (China Built Machines)	
	0272871	Ref	Decals - United Rentals (ANSI, CSA and UL Specs Only)	
	1001103307	Ref	Decals - UPS (ANSI Spec Only)	
	1001141655	Ref	Decals - Volvo Rents (1930ES) (ANSI and CSA Specs Only)	
	1001141656	Ref	Decals - Volvo Rents (2030ES/2630ES) (ANSI and CSA Specs Only)	
	1001141657	Ref	Decals - Volvo Rents (2646ES/3246ES) (ANSI and CSA Specs Only)	
		Ref	Decal Kit Options:	
	2890189	Ref	Decal Kit - CE Designation	
	1001149795	Ref	Decal Kit - Complete 1930ES	
	1001149796	Ref	Decal Kit - Complete 2020ES	
	1001149797	Ref	Decal Kit - Complete 2630ES	
	1001149798	Ref	Decal Kit - Complete 2646ES	
	1001149799	Ref	Decal Kit - Complete 3246ES	
	2902522	Ref	Decal Kit - Country Spec (ANSI Spec)	
	2902523	Ref	Decal Kit - Country Spec (Australian & CE Spec)	
	2902526	Ref	Decal Kit - Country Spec (Brazil Spec)	
	2902528	Ref	Decal Kit - Country Spec (Chinese Spec)	
	2902524	Ref	Decal Kit - Country Spec (CSA Spec)	
	2902532	Ref	Decal Kit - Country Spec (Korean Spec)	
	2902525	Ref	Decal Kit - Country Spec (Latin American Spec)	
	2902267	Ref	Decal Kit - Master	
	1001091967	Ref	Decal Kit - Platform Box Decal	
	1001091393	Ref	Decal Kit - Platform Box Decal & Housing	
	1001091965	Ref	Decal Kit - Platform Box Decal, Housing & PC Board	
			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	
			Electricians Package (Work Station in the Sky Accessory)	
			Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0273950	Ref	Without DC Converter	
	0273955	Ref	With DC Converter	
			Electricians Tree (Work Station in the Sky Accessory)	
			Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	1001102549	Ref	Without DC Converter	
	0274153	Ref	With DC Converter	
	0274849	Ref	Fire Extinguisher Installation (ANSI)	
			Fluids	
	2300028	AR	Fluid, Hydraulic - Mobil DTE 10 Excel 15 (Bulk)	
	70010346	AR	Fluid, Hydraulic - Mobil DTE 10 Excel 15 (1 Gallon)	
	2300042	AR	Fluid, Hydraulic - Synthetic Biodegradeable	
			Footswitch Installation Options (Japanese Spec)	
	0273761	Ref	Footswitch Installation with LSS 1930ES	
	1001185661	Ref	Footswitch Installation without LSS 1930ES	
	0273762	Ref	Footswitch Installation with LSS	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001185666	Ref	2030ES/2630ES/2646ES/3246ES Footswitch Installation without LSS 2030ES	
	1001185668	Ref	Footswitch Installation without LSS 2630ES	
	1001185669	Ref	Footswitch Installation without LSS 2646ES/3246ES	
	3128145	Ref	Inspection Packet (ANSI and ANSI Export Specs Only)	
	0274341	Ref	Interlock Override for Battery Charger Installation (ANSI)	
	0272876	Ref	Inverter Installations (ANSI, ANSI Export and Japanese Specs) Inverter Installations (ANSI, ANSI Export and Japanese Specs) 1930ES	
	0273070	Ref	Inverter Installations (ANSI, ANSI Export and Japanese Specs) 2030ES/2630ES	
	0273071	Ref	Inverter Installations (ANSI, ANSI Export and Japanese Specs) 2646ES/3246ES	
	2460042	1	Inverter Assembly	
	4360482	1	Switch, Toggle	
	1705051	1	Decal - Instructions	
	1705052	1	Decal - On-Off	
		Ref	Lifting Lugs Installations	
	0273454	Ref	Lifting Lugs Installations 1930ES (All Specs except Australian Spec)	
	1001135753	Ref	Lifting Lugs Installations 1930ES Australian Spec	
	0273454	Ref	Lifting Lugs Installations 2030ES/2630ES/2646ES/3246ES	
		Ref	Maintenance Kits - Annual Hydraulic (Not for Machines with Biodegradeable Hydraulic Fluid)	
	1001101329	Ref	Maintenance Kits - Annual Hydraulic 1930ES/2030ES/2630ES	
	1001101330	Ref	Maintenance Kits - Annual Hydraulic 2646ES/3246ES	
	2902405	Ref	Motor Band Kit (UL Specs Only)	
	3125053	Ref	Operator Video (ANSI and ANSI Export Specs Only)	
		Ref	Panel Carrier Installations (All Specs except U/L Spec)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
		Ref	Panel Carrier Installations (All Specs except U/L Spec) 1930ES	
	No Longer Available	Ref	ANSI, ANSI Export and CSA Specs (was p/n 0274970)	
	No Longer Available	Ref	Australian, CE and Japanese Specs (was p/n 0274969)	
		Ref	Panel Carrier Installations (All Specs except U/L Spec) 2030ES & 2630ES	
	0275006	Ref	ANSI, ANSI Export and CSA Specs	
	0275007	Ref	Australian, CE and Japanese Specs	
		Ref	Panel Carrier Installations (All Specs except U/L Spec) 2646ES & 3246ES	
	0274980	Ref	ANSI, ANSI Export and CSA Specs (2 in Wide Channel)	
	1001121695	Ref	ANSI, ANSI Export and CSA Specs (7in Wide Channel) (2646ES Only)	
	0274981	Ref	Australian, CE and Japanese Specs	
	1001092074	Ref	Pipe Racks Installations (Not Available on 1930ES) (Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160)	
	1001092073	2	Pipe Racks Assembly	
		Ref	Platform Latch - Magna-Latch Side Pull	
	1001135316	Ref	Platform Latch - Magna-Latch Side Pull (1930ES/2030ES/2630ES) (All Specs except Australian Spec)	
	1001135317	Ref	Platform Latch - Magna-Latch Side Pull (2646ES/3246ES) (All Specs except Australian Spec)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001140336	Ref	Specs except Australian Spec)	
	0275078	Ref	All Machines (Australian Specs)	
		Ref	Platform Limit Switches and Rail Padding Installations	
			Platform Limit Switches and Rail Padding Installations, 1930ES without Limit Switches (All Specs)	
		Ref	Platform Limit Switches and Rail Padding Installations, 1930ES with Limit Switches Options:	
	0275080	Ref	Non-UL Spec (ANSI and ANSI Export Specs Only)	
	1001100029	Ref	UL Spec (ANSI and UL Specs Only)	
	0275077	Ref	Platform Limit Switches and Rail Padding Installations, 2030ES/2630ES without Limit Switches (All Specs)	
		Ref	Platform Limit Switches and Rail Padding Installations, 2030ES/2630ES with Limit Switches Options:	
	0275081	Ref	Non-UL (ANSI and ANSI Export Specs Only)	
	1001092701	Ref	UL Spec (ANSI and UL Specs Only)	
	0275076	Ref	Platform Limit Switches and Rail Padding Installations, 2646ES/3246ES without Limit Switches	
		Ref	Platform Limit Switches and Rail Padding Installations, 2646ES/3246ES with Limit Switches	
	0275082	Ref	Non-UL Spec (ANSI and ANSI Export Specs Only)	
	1001092702	Ref	UL Spec (ANSI and UL Specs)	
	1001098162	Ref	Platform Limit Switches and Rail Padding Installations, 2646ES with Limit Switches without Padding (CE Spec Only)	
	1001121295	Ref	Platform Limit Switches and Rail Padding Installations, 2646ES with Limit Switches with Padding (ANSI Export Spec Only)	
		Ref	Platform Worklights Installations	
	0272850	Ref	Platform Worklights Installations, 1930ES (Without UL Specs)	
	0272851	Ref	Platform Worklights Installations, 2030ES (Without UL Specs)	
	0272852	Ref	Platform Worklights Installations, 2630ES (Without UL Specs)	
	0272853	Ref	Platform Worklights Installations, 2646ES/3246ES (Without UL Specs)	
	0275937	Ref	Platform Worklights Installations, 2646ES/3246ES (With UL Specs)	
	0273952	Ref	Plant Maintenance Package (Work Station in the Sky Accessory)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0273951	Ref	Plumbers Package (Work Station in the Sky Accessory)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0273859	Ref	Pressure Check Installation (All Specs except Australian and CE Specs)	
	1001171015	Ref	RCD Box Installation (Brazil Spec Only) (Factory Installed)	
	1001157920	Ref	RCD Box Installation (Brazil Spec Only) (Service Kit)	
		Ref	Tools for Service	
	7002821	1	Crimper, Wire	
	7002823	1	Extractor, Pin - Universal	
	4460467	AR	Extractor, Pin #16 Gauge	
	4460510	AR	Extractor, Pin #12 Gauge	
	7004275	1	Installer, Cylinder Seal - 1in	
	7004276	1	Installer, Cylinder Seal - 1 1/2in	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7002826	1	Installer, Cylinder Seal - 2in	
	7016654	1	Screwdriver, Magnetic	
	7002822	1	Screwdriver, Potentiometer	
	7002828	1	Stripper, Wire	
	2901443	1	Analyzer Kit	
	4341055	1	Service Safety Prop	
	1706331	1	Decal - ES Service Prop	
	70000555	1	Relief Valve Removable Tool (For Older Style Relief Valves)	
	2915230	1	Battery Charger Reprogram Controller Kit	
	1001137005	1	Software Cables Kit	
	1001193039	1	ZAPI Programming Harness	
	0240093	Ref	Vise Installation (Work Station in the Sky Accessory)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
		Ref	Welder Installations (All Specs except U/L Spec)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0272879	Ref	Welder Installations (All Specs except U/L Spec), 1930ES Complete Kit	
	0275072	Ref	Welder Installations (All Specs except U/L Spec), 1930ES Kit (Includes Fire Extinguisher and Power Cable Only)	
	0272880	Ref	Welder Installations (All Specs except U/L Spec), 2030ES Complete Kit	
	0275073	Ref	Welder Installations (All Specs except U/L Spec), 2030ES Kit (Includes Fire Extinguisher and Power Cable Only)	
	0272881	Ref	Welder Installations (All Specs except U/L Spec), 2630ES Complete Kit	
	0275074	Ref	Welder Installations (All Specs except U/L Spec), 2630ES Kit (Includes Fire Extinguisher and Power Cable Only)	
	0272882	Ref	Welder Installations (All Specs except U/L Spec), 2646ES/3246ES Complete Kit	
	0275075	Ref	Welder Installations (All Specs except U/L Spec), 2646ES/3246ES Kit (Includes Fire Extinguisher and Power Cable Only)	
		Ref	Work Station in the Sky Accessories Installations	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0273965	Ref	Work Station without DC Converter Installation	
	0240087	Ref	Work Station without DC Converter Assembly	
	0273955	Ref	Work Station with DC Converter Installation (1930ES/2030ES)	
	0273955	Ref	Work Station with DC Converter Installation (2630ES/2646ES/3246ES)	
	0240071	Ref	Work Station with DC Converter Assembly	

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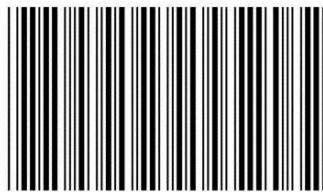
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