



Illustrated Parts Manual

Models **1930ES, 2030ES** **2630ES, 2646ES** **& 3246ES**

S/N 0200135154 TO
S/N 0200152825 &
S/N 1200004293 TO
S/N 1200008481

3121247

October 9, 2013

ANSI



An Oshkosh Corporation Company

REVISION LOG

NOTES:

NOTE: 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. The country of manufacture may be determined by the Serial Number. 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NOTE: 1930ES, 2030ES, 2630ES, 2646ES & 3246ES Global Illustrated Parts Manual P/N 3121167 has been replaced by multiple manuals.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 S/N and use the Global Illustrated Parts Manual for the correct serial number range:

USA Built Machines Prior to S/N 0200135154 — Use manual p/n 3121246.

USA Built Machines S/N 0200135154 to S/N 0200152825 — Use manual p/n 3121247.

USA Built Machines S/N 0200152825 to S/N 0200198014 — Use manual p/n 3121248.

USA Built Machines S/N 0200198014 to Present — Use manual p/n 3121275.

Belgium Built Machines Prior to S/N 1200004293 — Use manual p/n 3121246.

Belgium Built Machines S/N 1200004293 to S/N 1200008481— Use manual p/n 3121247.

Belgium Built Machines S/N 1200008481 to Present — Use manual p/n 3121248.

China Built Machines S/N B200000100 to Present — Use manual p/n 3121275.

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REVISION LOG

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SECTION 1

FRAME

SECTION 1 FRAME

FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ILLUSTRATION & PARTS LIST USAGE:

1930ES USA Built Machines S/N 0200135154 to S/N 0200150266
 1930ES Belgium Built Machines S/N 1200004293 to S/N 1200007882
 2030ES/2630ES USA Built Machines S/N 0200135154 to S/N 0200152825
 2030ES/2630ES Belgium Built Machines S/N 1200004293 to S/N 1200008481
 2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151606
 2646ES/3246ES Belgium Built Machines S/N 1200004293 to S/N 1200008265

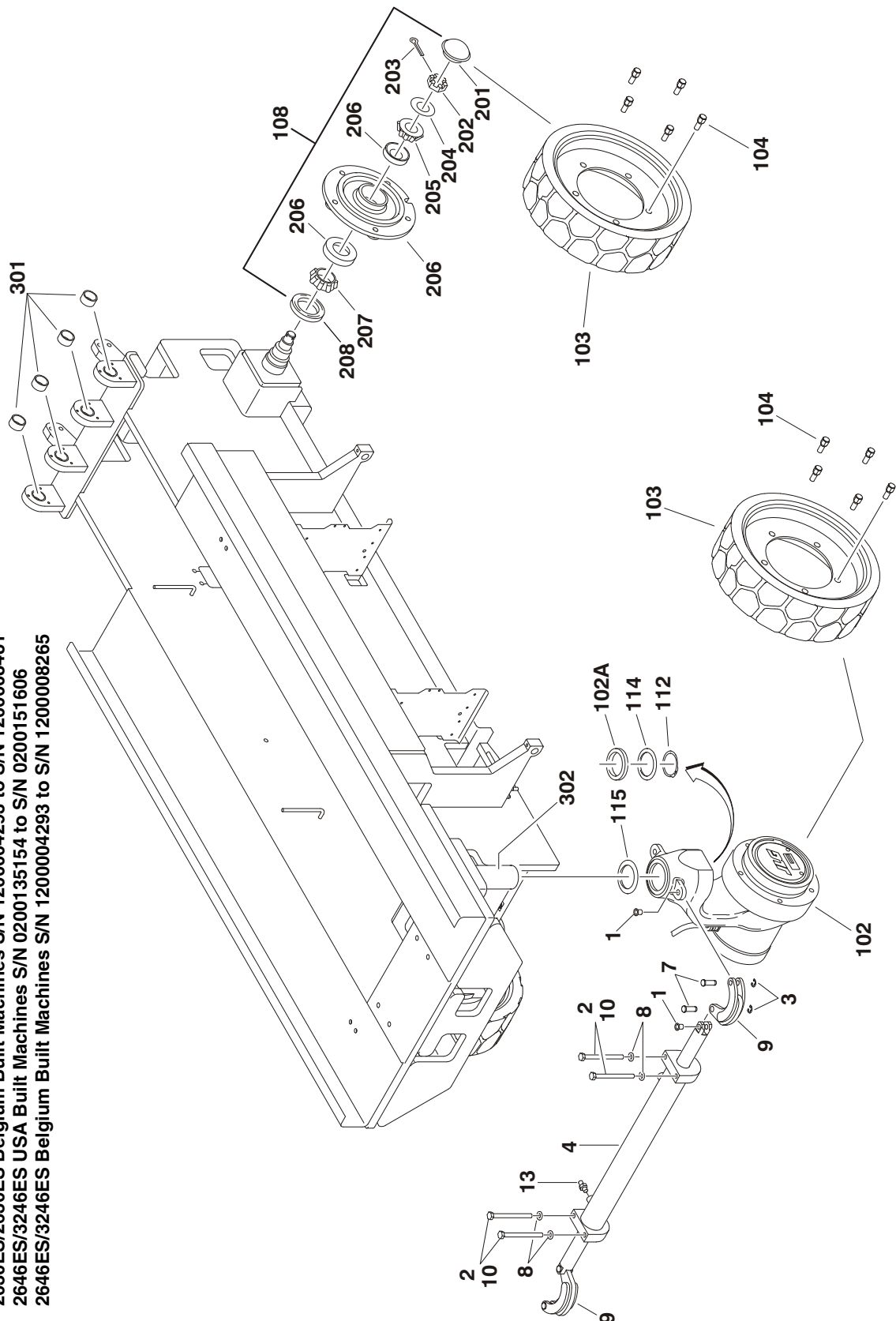


FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ILLUSTRATION & PARTS LIST USAGE:	
		Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266	
		Ref.	1930ES Belgium Built Machines S/N 1200004293 to S/N 1200007882	
		Ref.	2030ES/2630ES USA Built Machines S/N 0200135154 to S/N 0200152825	
		Ref.	2030ES/2630ES Belgium Built Machines S/N 1200004293 to S/N 1200008481	
		Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151606	
		Ref.	2646ES/3246ES Belgium Built Machines S/N 1200004293 to S/N 1200008265	
		Ref.	STEERING INSTALLATION	
	0272371	Ref.	1930ES	F
	0273227	Ref.	2030ES/2630ES	C
	0272372	Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	G
	0274546	Ref.	2646ES/3246ES USA Built Machines S/N 0200137094 to S/N 0200151606 & Belgium Built Machines S/N 1200004608 to S/N 1200008265	B
1	0440259	2	Bearing, Flanged	
2		4	Bolt M10 Options: 40mm Length 60mm Length	
	0701016			
	0701020			
3	1380153	4	E-Clip	
4		1	Steer Cylinder Assembly (See Section 5 for Breakdown):	
	1684237		1930ES/2030ES/2630ES	
			2646ES/3246ES	
	1684263		USA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	
	1684456		USA Built Machines S/N 0200137094 to S/N 0200151606 & Belgium Built Machines S/N 1200004608 to S/N 1200008265	
5 to 6	Not Used			
7	3423037	4	Pin, Clevis	
8	4812000	4	Flatwasher M10	
9	4846757	2	Lug, Steer	
10	0100011	A/R	Compound, Locking	
11 to 12	Not Used			
13	2110404	2	Fitting, Straight	

SECTION 1 FRAME

FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	DRIVE INSTALLATION	
	0272710	Ref.	1930ES	O
	0274224	Ref.	1930ES (UL SPEC)	F
	0272711	Ref.	2030ES/2630ES	O
	0274225	Ref.	2030ES/2630ES (UL SPEC)	F
	0273008	Ref.	2646ES/3246ES	P
	0274226	Ref.	2646ES/3246ES (UL SPEC)	F
101	Not Used			
102		2	Wheel Drive Assembly Options:	
	Use 2915236		1930ES (See Figure 1-3 for Breakdown) (was p/n 3160306)	
	Use 1001100975		2030ES/2630ES/2646ES/3246ES (See Figure 1-3 for Breakdown) (was p/n 3160307)	
102A	3577112	2	Plate, Spacer (Used only on Machines with Kit p/n 2915236 installed)	
103		4	Wheel & Bolt Kit Options (includes Item 104):	
		Ref.	Note: Must replace Tire & Wheel Assemblies in pairs per axle.	
	2915012		1930ES (was p/n 2915005, 4520326 & 4520565)	
	2915013		2030ES/2630ES/2646ES/3246ES (was p/n 2915006, 4520327 & 4520676)	
104	0630580	20	Bolt, Wheel	
105 to 107	Not Used			
108	2780266	2	Hub Assembly (See Items 201-208 for Breakdown)	
109 to 111	Not Used			
112	3760463	2	Ring, Retaining	
113	Not Used			
114	4740523	4	Washer, Spindle Retaining	
115	4740524	2	Thrustwasher M60	
	2780266	Ref.	HUB ASSEMBLY	B
		Ref.	Note: Qtys shown for 1 Assembly. Two Assemblies required per machine.	
201	Use 1001102354	1	Cap, Dust (was p/n 7012524)	
202	Use 3300423	1	Nut, Slotted (was p/n 7010641)	
203	Use 3450406	1	Pin, Cotter 2" x 3/16" (was p/n 7010642)	
204	Use 4740468	1	Washer (was p/n 7019697)	
205	Use 1001102351	1	Bearing, Cone - Outer (was p/n 7026185)	
206	Not Available	1	Hub (Purchase Complete Hub p/n 2780266)	
207	Use 1001102353	1	Bearing, Cone - Inner (was p/n 7026183)	
208	Use 1001102349	1	Seal (was p/n 7026184)	

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FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	FRAME WELDMENT	
301	0440264	A/R 2	Bushing Options: 1930ES	
	0440265	4	2030ES/2630ES/2646ES/3246ES	
302		A/R	Kingpin Rework Instruction Options (Provides rework procedure for damaged kingpins):	
	3128601		1930ES/2030ES/2630ES	
	3128703		2646ES/3246ES	

SECTION 1 FRAME

FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

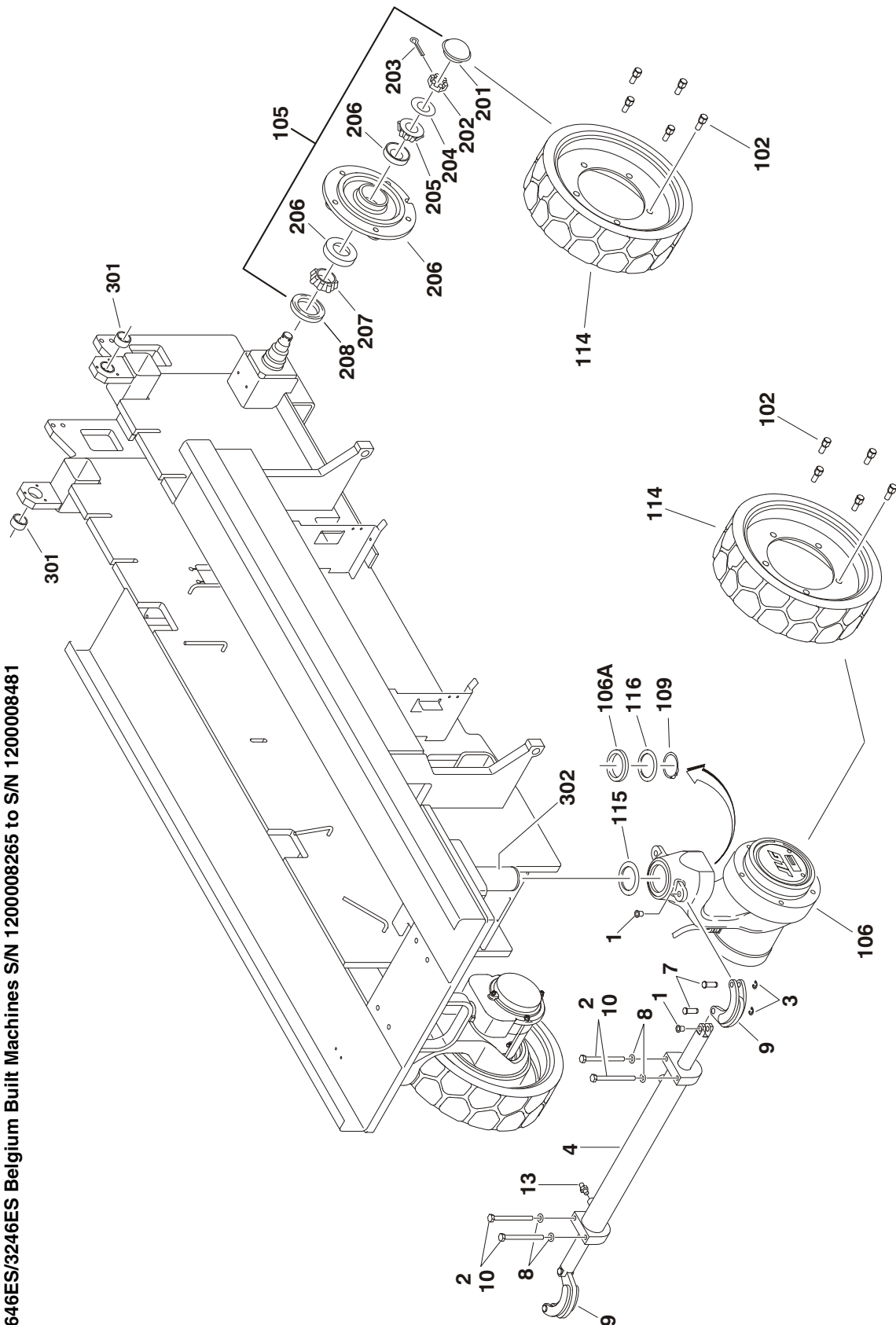


ILLUSTRATION & PARTS LIST USAGE:

1930ES USA Built Machines S/N 0200150266 to S/N 0200152825
 1930ES Belgium Built Machines S/N 1200007882 to S/N 1200008481
 2646ES/3246ES USA Built Machines S/N 0200151606 to S/N 0200152825
 2646ES/3246ES Belgium Built Machines S/N 1200008265 to S/N 1200008481

FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ILLUSTRATION & PARTS LIST USAGE:	
		Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825	
		Ref.	1930ES Belgium Built Machines S/N 1200007882 to S/N 1200008481	
		Ref.	2646ES/3246ES USA Built Machines S/N 0200151606 to S/N 0200152825	
		Ref.	2646ES/3246ES Belgium Built Machines S/N 1200008265 to S/N 1200008481	
		Ref.	STEERING INSTALLATION	
	0272371	Ref.	1930ES	F
	0274546	Ref.	2646ES/3246ES	B
1	0440259	2	Bearing, Flanged	
2		4	Bolt M10 Options:	
	0701016		40mm Length	
	0701020		60mm Length	
3	1380153	4	E-Clip	
4		1	Steer Cylinder Assembly (See Section 5 for Breakdown):	
	1684237		1930ES	
	1684456		2646ES/3246ES	
5 to 6	Not Used			
7	3423037	4	Pin, Clevis	
8	4812000	4	Flatwasher M10	
9	4846757	2	Lug, Steer	
10	0100011	A/R	Compound, Locking	
11 to 12	Not Used			
13	2110404	2	Fitting, Straight	
		Ref.	DRIVE INSTALLATION	
	0275185	Ref.	1930ES	B
	0275188	Ref.	1930ES (UL SPEC)	B
	0275187	Ref.	2646ES/3246ES	A
	0275190	Ref.	2646ES/3246ES (UL SPEC)	A
101	Not Used			
102	0630580	20	Bolt, Wheel	
103 to 104	Not Used			
105	2780266	2	Hub Assembly (See Items 201-208 for Breakdown)	
106		2	Wheel Drive Assembly Options (See Figure 1-3 for Breakdown):	
	Use 2915236		1930ES (was p/n 3160306)	
	Use 1001100975		2646ES/3246ES (was p/n 3160307)	
106A	3577112	2	Plate, Spacer (Used only on Machines with Kit P/N 2915236 installed)	
107 to 108	Not Used			
109	3760463	2	Ring, Retaining	
110 to 113	Not Used			

SECTION 1 FRAME

**FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N
USAGE SEE TOP OF PARTS LIST) (CONTINUED)**

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
114	1001100840 1001100894	4	Tire and Wheel Assembly Options: 1930ES (was p/n 4520326 & 4520565) 2646ES/3246ES (was p/n 4520327 & 4520676)	B
115	4740524	2	Thrustwasher M60	
116	4740564	2	Washer, Spindle Retaining	
	2780266	Ref.	HUB ASSEMBLY	
		Ref.	Note: Qtys shown for 1 Assembly. Two Assemblies required per machine.	
201	7012524	1	Cap, Dust	
202	7010641	1	Nut, Slotted	
203	7010642	1	Pin, Cotter 2" x 3/16"	
204	7019697	1	Washer	
205	7026185	1	Bearing, Cone - Outer	
206	Not Available	1	Hub (Purchase Complete Hub p/n 2780266)	
207	7026183	1	Bearing, Cone - Inner	
208	7026184	1	Seal	
		Ref.	FRAME WELDMENTS	
301	0440264 0440265	2	Bushing Options: 1930ES 2646ES/3246ES	
302	3128601 3128703	A/R	Kingpin Rework Instruction Options (Provides rework procedure for damaged kingpins): 1930ES/2030ES/2630ES 2646ES/3246ES	

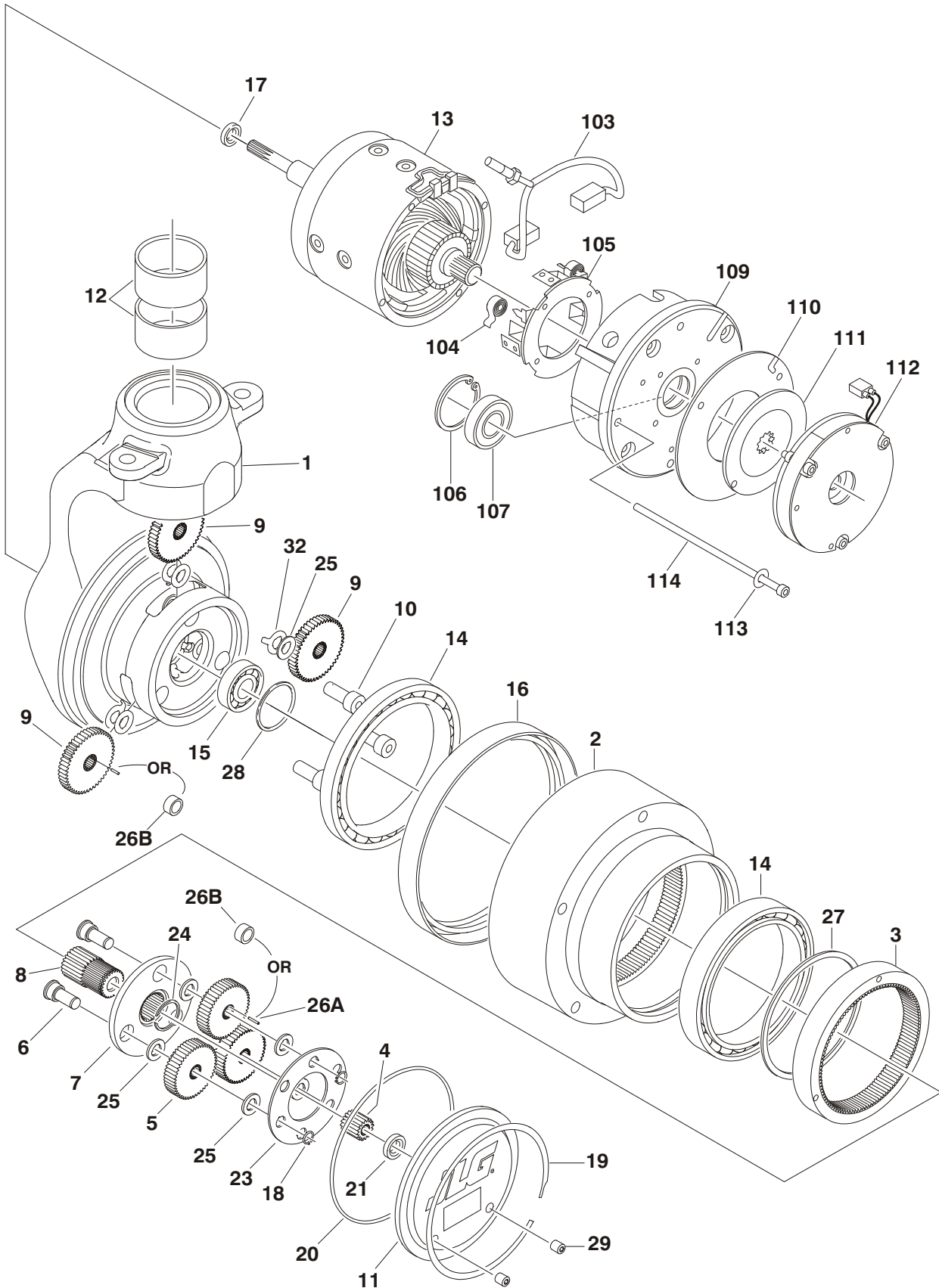
SECTION 1 FRAME

**FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (FOR MODEL & S/N
USAGE SEE TOP OF PARTS LIST) (CONTINUED)**

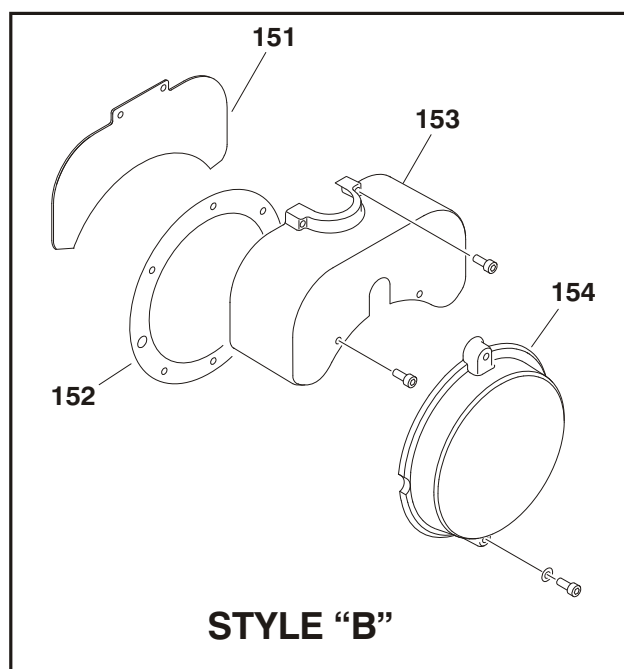
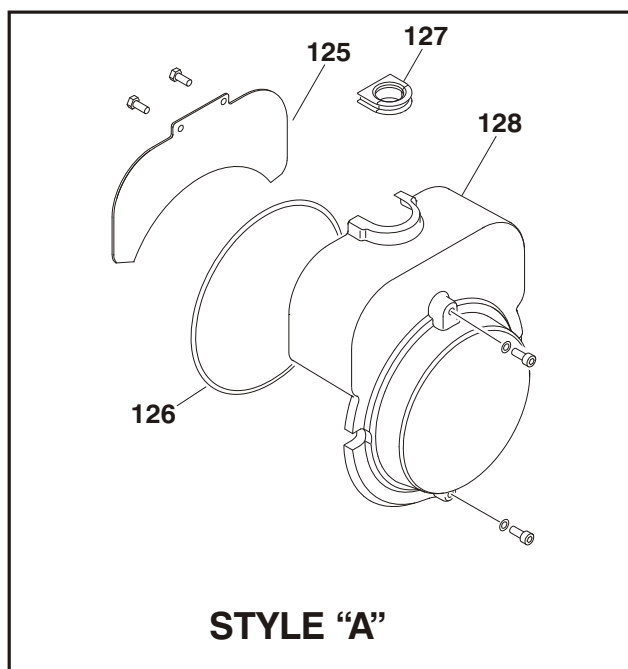
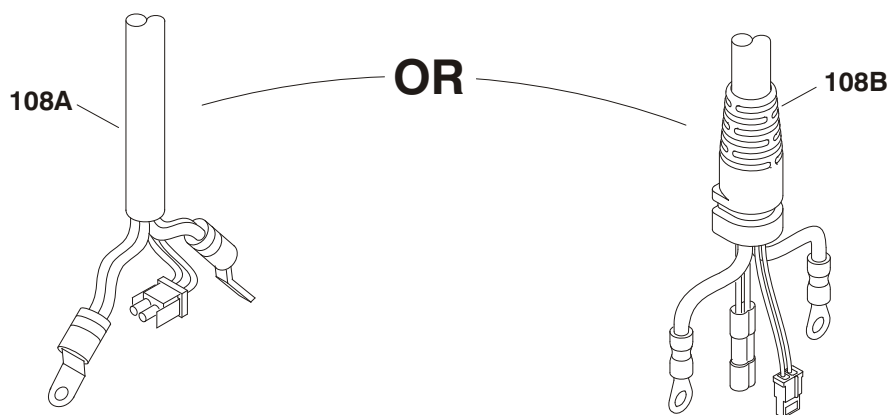
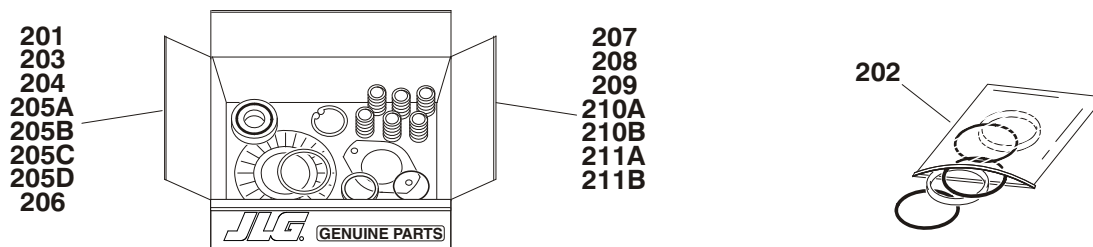
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-3.WHEEL DRIVE ASSEMBLY



SECTION 1 FRAME



SECTION 1 FRAME

FIGURE 1-3. WHEEL DRIVE ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	WHEEL DRIVE ASSEMBLY (ADVANCED)	
	3160306	Ref.	1930ES	E
	3160307	Ref.	2030ES/2630ES/2646ES/3246ES	E
		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	Not Available	1	Spindle	
2	Use Item 206	1	Hub	
3	Use Item 204	1	Ring, Input	
4	Use Item 203	1	Gear, Input Sun	
5	Use Item 203	3	Gear, Input Planet	
6	Use Item 203	3	Pin, Planet Gear	
7	Use Item 203	1	Carrier	
8	Use Item 203	1	Gear, Output Sun	
9	Use Item 207	3	Gear, Output Planet	
10	Use Item 207	3	Pin, Output Planet	
11	Use Item 201	1	Cover	
12	7024757	1	Bushing Kit, Kingpin (Includes 2 Bushings)	
13	See Note	1	Motor, Electric (Note: Use item 205A, 205B, 205C or 205D)	
14	See Note	2	Bearing, Main (Note: Use Item 202, 204, 206 or 207)	
15	Use Item 207	1	Bearing, Shaft	
16	70001739	1	Seal, Lip	
17	7024786	1	Seal, Lip	
18	Use Item 203	3	Ring, Retaining	
19	Use Item 201	1	Ring, Retaining	
20	70000191	1	O-Ring	
21	Use Item 201	1	Thrustwasher	
22	Not Used			
23	Use Item 203	1	Plate, Thrust	
24	Use Item 203	1	Ring, Retaining	
25	See Note	9	Thrustwasher (Note: Use Item 203 or 207)	
26	See Note	A/R	Bearing/Bushing Options (Note: Use Item 203 or 207):	
26A		66	Bearing, Needle	
26B		6	Bushing	
27	See Note	1	Ring, Retaining (Note: Use Item 204, 206 or 207)	
28	Use Item 207	1	Ring, Retaining	
29	Use Item 201	2	Plug	
30 to 31	Not Used			
32	Use Item 207	3	Washer, Tanged	
		Ref.	BRAKE & MOTOR COMPONENTS	
101 to 102	Not Used			
103	Use Item 208	1	Brush & Terminal Assembly	
104	70000790	2	Spring, Brush	
105	70000791	1	Box, Brush	
106	Use Item 208	1	Ring, Retaining	

SECTION 1 FRAME

FIGURE 1-3. WHEEL DRIVE ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
107	Use Item 208	1	Bearing	
108		1	Harness, Electrical Cable Options:	
108A	Use 1001099628		1930ES (was p/n 7024770)	
	Use 1001099676		2030ES/2630ES/2646ES/3246ES (was p/n 7024770 & 7024775)	
108B	1001091502		1930ES	
	Use 1001134012		2030ES/2630ES/2646ES/3246ES (was p/n 1001091843)	
109	70000792	1	Commutator	
110	Use Item 209	1	Disc, Reaction	
111	7024785	1	Disc, Friction	
112	Use Item 209	1	Brake Assembly	
113	See Note	2	Flatwasher (Note: Use Item 210A or 210B)	
114	See Note	2	Bolt (Note: Use Item 210A or 210B)	
115 to 124	Not Used			
		Ref.	Style "A" Brake Cover	
125	See Note	1	Plate, Cover (Note: Use Item 211A or 211B)	
126	See Note	1	O-Ring (Note: Use Item 210A, 210B, 211A or 211B)	
127	70000383	1	Connector, Strain Relief	
128	See Note	1	Cover (Note: Use Item 211A or 211B)	
129 to 150	Not Used			
		Ref.	Style "B" Brake Cover	
151	See Note	1	Plate, Cover (Note: Use Item 211A or 211B)	
152	70001949	1	Gasket, Cover	
153	See Note	1	Cover, Top (Note: Use Item 211A or 211B)	
154	See Note	1	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 Item 3,20,27 & Qty 1 of Item 14)	
205		1	Motor Kit Options (Includes Items 13,17,103-114 & 151-154):	
			Motors with Item #108A Style Electrical Cable	
205A	Use 1001100819		1930ES (was p/n 7024774)	
205B	Use 1001100820		2030ES/2630ES/2646ES/3246ES (was p/n 7024777)	
			Motors with Item #108B Style Electrical Cable	
205C	70001263		1930ES	
205D	70001345		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 & Bearing Kit (Includes Items 103, 106 & 107)	
209	7024772	1	Brake Kit (Includes Items 110, 111 & 112)	
210		1	Motor Hardware Kit (Includes 113 & 114)	
210A	7024773		1930ES	
210B	7024776		2030ES/2630ES/2646ES/3246ES	

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FIGURE 1-3. WHEEL DRIVE ASSEMBLY (CONTINUED)

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

FIGURE 1-3. WHEEL DRIVE ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-4. FRAME MOUNTED COMPONENTS

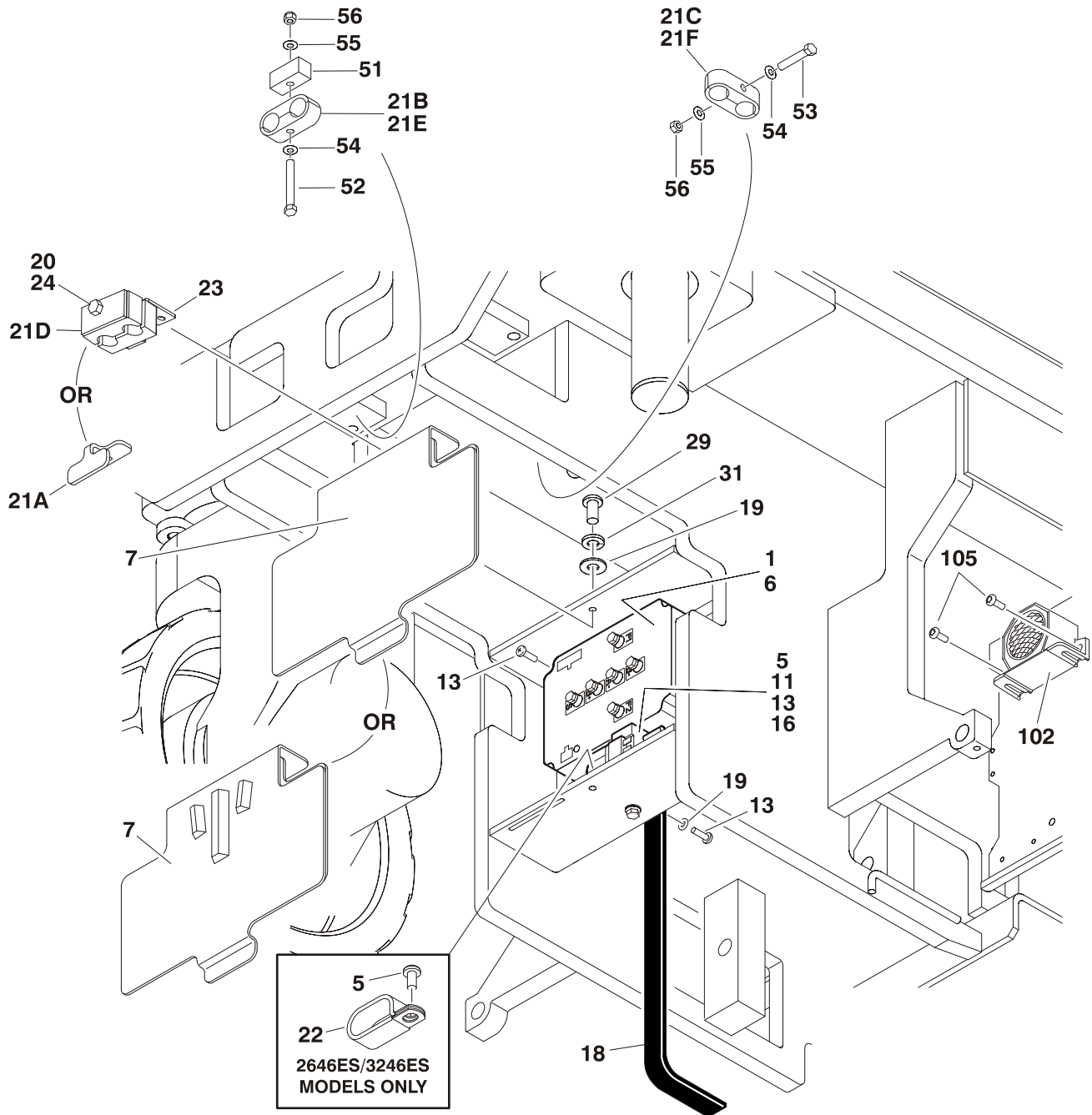


FIGURE 1-4. FRAME MOUNTED COMPONENTS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	CONTROLLER INSTALLATION	
		Ref.	1930ES:	
		Ref.	All except UL Spec	
	0272710	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	O
	0275185	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	B
		Ref.	UL Spec	
	0274224	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	F
	0275188	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	B
		Ref.	2030ES/2630ES:	
	0272711	Ref.	All except UL Spec	O
	0274225	Ref.	UL Spec	F
		Ref.	2646ES/3246ES:	
		Ref.	All except UL Spec	
	0273008	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	P
	0275187	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	A
		Ref.	UL Spec	
	0274226	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	F
	0275190	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	A
1	0100083	A/R	Grease, Heat Transfer	
2 to 4	Not Used			
5	4191706	A/R	Bolt M6 x 12mm	
6	1600346	1	Module, Control	
7		1	Cover Options:	
			1930ES/2030ES/2630ES	
	1671132		All except UL Spec	
	1671181		UL Spec	
			2646ES/3246ES	
	1671133		All except UL Spec	
	1671182		UL Spec	
8 to10	Not Used			

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FIGURE 1-4. FRAME MOUNTED COMPONENTS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
11	Use 2915064	1	Relay Options: All except UL Spec USA Built Machines S/N 0200135154 to S/N 0200138063 & Belgium Built Machines S/N 1200004293 to S/N 1200004866 (was p/n 3740146)	
	0903098 3740150	1	Mounting Bracket Used on 3740146 USA Built Machines S/N 0200138063 to S/N 0200152825 & Belgium Built Machines S/N 1200004866 to S/N 1200008481	
	3740146 0903098	1	UL Spec Mounting Bracket	
		Ref.	Note: Relay p/n 3740146 Albright or Curtis brand has 4 terminals & no lead wires. Relay p/n 3740150 is Trombetta brand has 2 terminals & 1 lead wire.	
12	Not Used			
13	4191708	A/R	Bolt M6 x 20mm	
14 to 15	Not Used			
16	4811700	A/R	Flatwasher M6	
17	Not Used			
18	4240147	1	Strap, Anti-Static	
19	4751400	A/R	Flatwasher 1/4" Wide	
20	0700819	1	Bolt M8 x 55mm (UL Spec Only)	
21		A/R	Clamp, Cable Options:	
		Ref.	Note: Due to service updates, cable clamps may be any of the various designs listed below. Visual identification will be required. Non-UL Spec Clamp (Available on All Models)	
21A	3574714	1	Clamp (Used as part of Service Update on 1930ES)	
21B	1001091492	1	Clamp (Used as part of Service Update on 2030ES/2630ES/2646ES/3246ES)	
21C	1001094301	2	UL Spec Clamp (Available on All Models)	
21D	1320162	1	Clamp (Used as part of Service Update on 1930ES)	
21E	1001091492	1	Clamp (Used as part of Service Update on 2030ES/2630ES/2646ES/3246ES)	
21F	1001094301	2	Clamp, Hose (2646ES/3246ES Only)	
22	1321283	1	Mount, Cable Clamp (UL Spec Only)	
23	4340751	1	Flatwasher M8 (UL Spec Only)	
24	4811900	1		
25 to 28	Not Used			
29	4191709	1	Bolt M6 x 25mm	
30	Not Used			
31	4831700	1	Lockwasher M6	
32 to 50	Not Used			
		Ref.	Note: Items 51 - 56 may be used on machines with service update kits.	
51	1001094124	1	Block, Spacer (1930ES Only)	
52	0700624	1	Bolt M6 x 80mm	
53	0700619	2	Bolt M6 x 55mm	

FIGURE 1-4. FRAME MOUNTED COMPONENTS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
54	4751400	A/R	Flatwasher 1/4" Wide	
55	4811700	A/R	Flatwasher M6	
56	3290606	A/R	Locknut M6	
		Ref.	ALARM INSTALLATIONS	
	0272810	Ref.	ANSI Spec	F
	0273443	Ref.	Australian Spec	B
	0272811	Ref.	CE Spec	D
	0272722	Ref.	Descent Alarm	A
	0272913	Ref.	Motion Alarm	A
101	Not Used			
102	0140043	1	Alarm	
103 to 104	Not Used			
105	4191706	2	Screw M6 x 12mm	

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FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES)

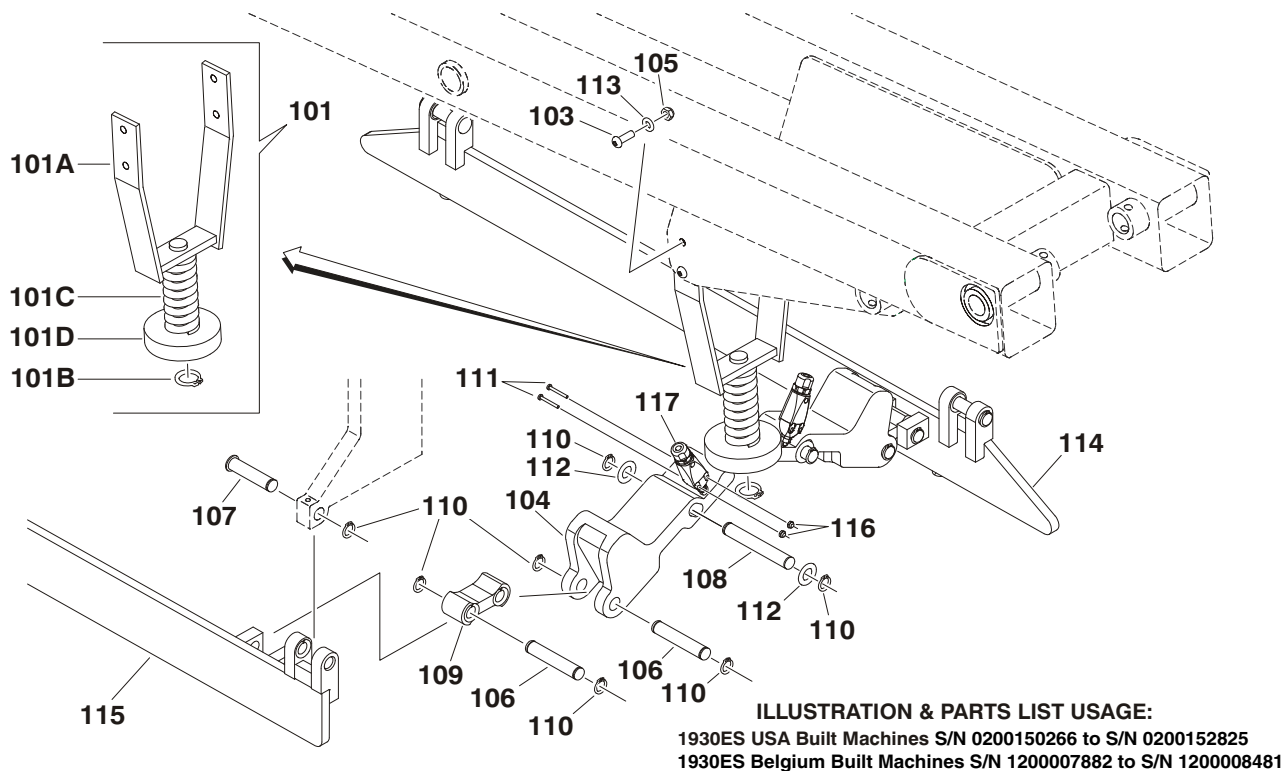
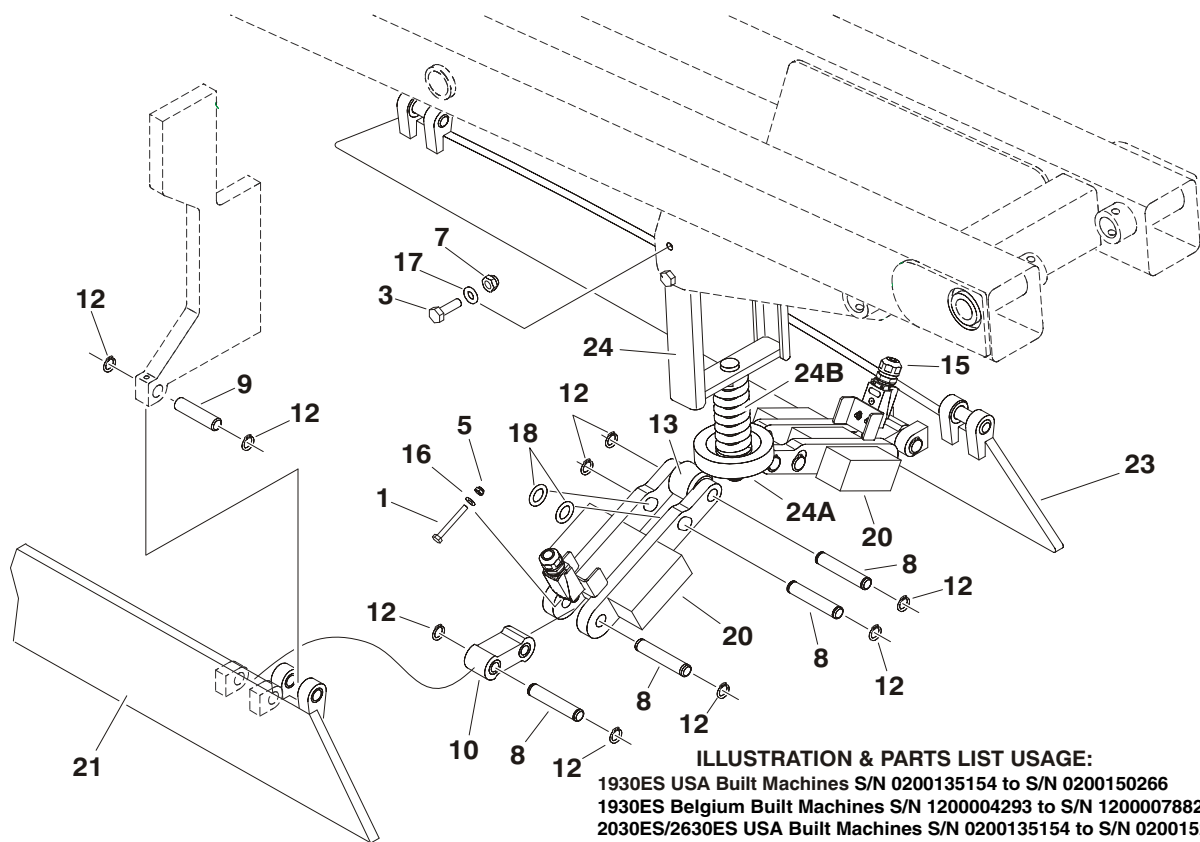


FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	POTHOLE PROTECTION INSTALLATION	
	0272757	Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	K
	0272758	Ref.	2030ES/2630ES USA Built Machines S/N 0200135154 to S/N 0200152825 & Belgium Built Machines S/N 1200004293 to S/N 1200008441	K
1	4010415	4	Screw M4 x 35mm	
2	Not Used			
3	0701014	4	Screw M10 x 30mm	
4	Not Used			
5	3290405	4	Locknut M4	
6	Not Used			
7	3291005	6	Locknut M10	
8	3423045	8	Pin	
9	Use 3423189	4	Pin (was p/n 3423046)	
10	3574176	2	Link	
	0440263	4	Bushing	
11	Not Used			
12	3760348	20	Ring, Retaining	
13	3860108	2	Roller	
14	Not Used			
15	Use 1001109345	2	Switch, Limit (was p/n 4360536 & 4360607)	
16	4750800	8	Flatwasher (Wide)	
17	4812000	4	Flatwasher M10	
18	4740086	8	Thrustwasher	
19	Not Used			
20	4846774	2	Link	
21		1	Support (Right) Options:	
	4846775		1930ES	
	4846816		2030ES/2630ES	
	0440263	4	Bushing	
22	Not Used			
23		1	Support (Left) Options:	
	4846861		1930ES	
	4846863		2030ES/2630ES	
	0440263	4	Bushing	
24	0060083	1	Actuator Assembly	A
	4846773	1	Actuator	
24A	1440333	1	Collar, Actuator	
	3760115	1	Ring, Retaining	
24B	4160202	1	Spring	

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FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES)

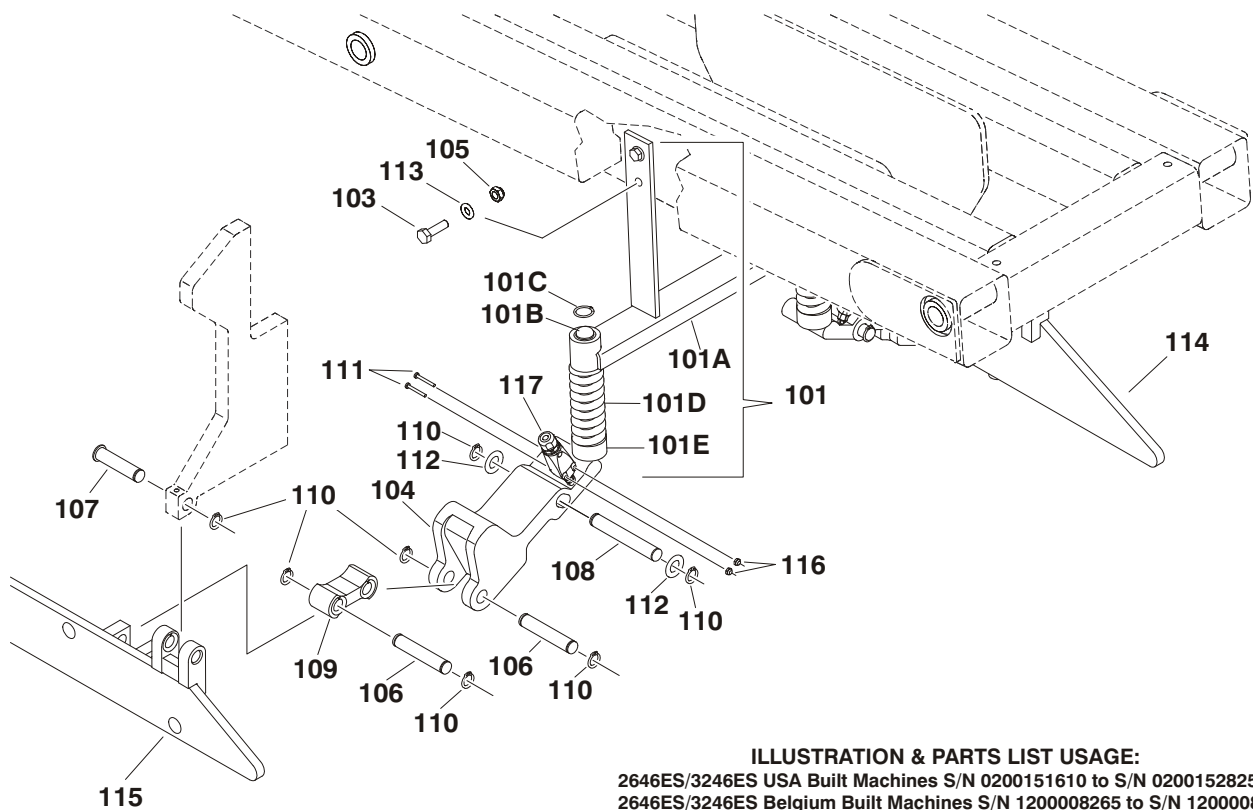
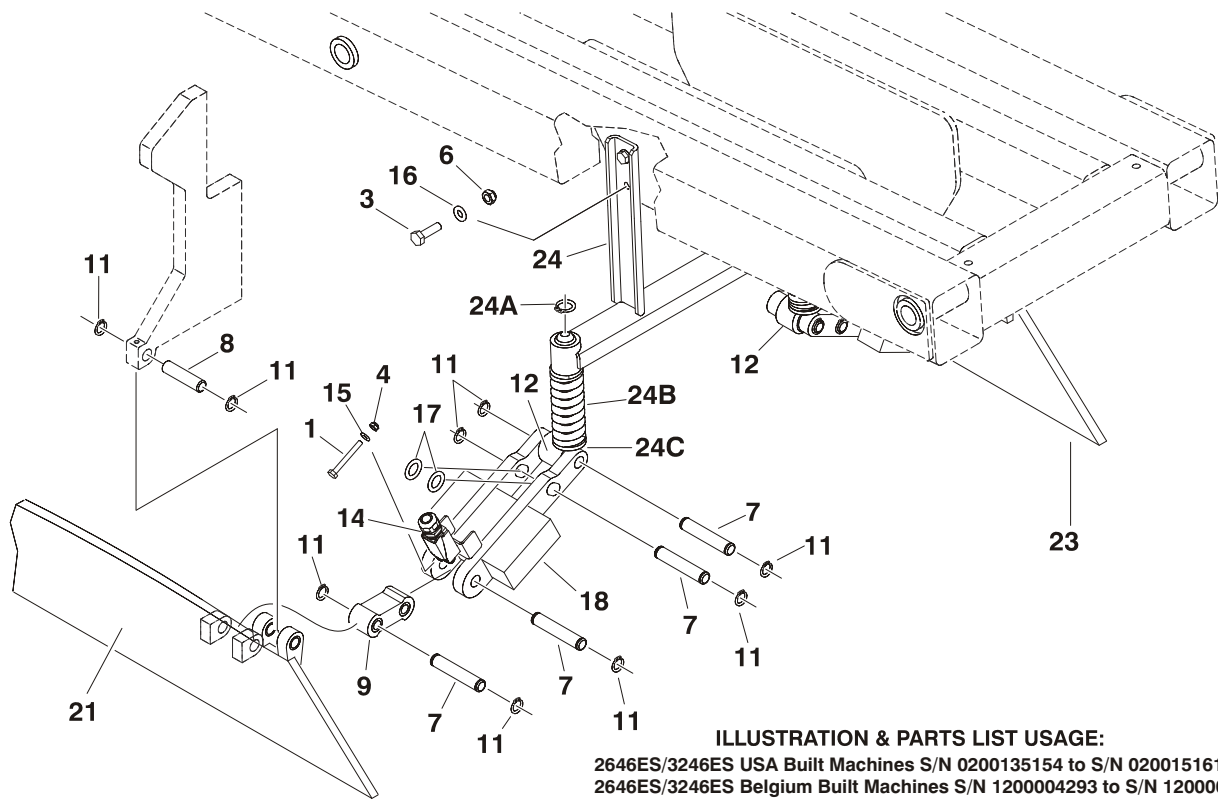
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0275092	Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	C
101	Purchase Individual Pieces	1	Actuator Assembly (was p/n 0060090)	A
101A	0060091	1	Actuator Weldment	
101B	3760115	1	Ring, Retaining	
101C	4160202		Spring	
101D	4220287		Pad	
102	Not Used			
103	3900351	4	Screw, Button Head M10 x 30mm	
104	3010158	2	Link	
105	3291005	4	Locknut M10	
106	3423045	4	Pin	
107	3423189	4	Pin	
108	3423267	2	Pin	
109	3574176	2	Link	
	0440263	4	Bushing	
110	3760348	16	Ring, Retaining	
111	4010415	4	Screw M4 x 35mm	
112	4740086	4	Thrustwasher	
113	4812000	4	Flatwasher M10	
114	4846775	1	Bar, Pothole Support (Right)	
	0440263	4	Bushing	
115	4846861	1	Bar, Pothole Support (Left)	
	0440263	4	Bushing	
116	3290405	4	Locknut M4	
117	See Section 7	2	Switch, Limit	

FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-6. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES)



SECTION 1 FRAME

FIGURE 1-6. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	POTHOLE PROTECTION INSTALLATION	
	0272759	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	J
1	4010415	4	Screw M4 x 35mm	
2	Not Used			
3	0701015	4	Screw M10 x 35mm	
4	3290405	4	Locknut M4	
5	Not Used			
6	3291005	6	Locknut M10	
7	3423045	8	Pin	
8	Use 3423189	4	Pin (was p/n 3423046)	
9	3574176	2	Link	
	0440263	4	Bushing	
10	Not Used			
11	3760348	20	Ring, Retaining	
12	3860108	2	Roller	
13	Not Used			
14	Use 1001109345	2	Switch, Limit (was p/n 4360536 & 4360607)	
15	4750800	8	Flatwasher (Wide)	
16	4812000	4	Flatwasher M10	
17	4740086	8	Thrustwasher	
18	4846774	2	Link	
19 to 20	Not Used			
21	4846811	1	Support (Right)	
	0440263	4	Bushing	
22	Not Used			
23	4846862	1	Support (Left)	
	0440263	4	Bushing	
24	0060082	1	Actuator Assembly	A
	4846810	1	Actuator	
	0962292	4	Bushing, Garmax	
24A	3760115	2	Ring, Retaining	
24B	4160202	2	Spring	
24C	4846788	2	Plunger	
	0275094	Ref.	USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	C
101	Purchase Individual Pieces	1	Actuator Assembly (was p/n 0060092)	B
101A	0060093	1	Actuator	
101B	0962292	4	Bushing, Garmax	
101B	3423289	2	Pin	
101C	3760115	2	Ring, Retaining	
101D	4160202	2	Spring	
101E	4220293	2	Pad	
102	Not Used			
103	0701015	4	Screw M10 x 35mm	

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FIGURE 1-6. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
104	3010158	2	Link	
105	3291005	4	Locknut M10	
106	3423045	4	Pin	
107	3423189	4	Pin	
108	3423267	2	Pin	
109	3574176	2	Link	
	0440263	4	Bushing	
110	3760348	16	Ring, Retaining	
111	4010415	4	Screw M4 x 35mm	
112	4740086	4	Thrustwasher	
113	4812000	4	Flatwasher M10	
114	4846811	1	Bar, Pothole Support (Right)	
	0440263	4	Bushing	
115	4846862	1	Bar, Pothole Support (Left)	
	0440263	4	Bushing	
116	3290405	4	Locknut M4	
117	See Section 7	2	Switch, Limit	

FIGURE 1-6. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (MAC CHARGER WITH BREAKERS ON END)

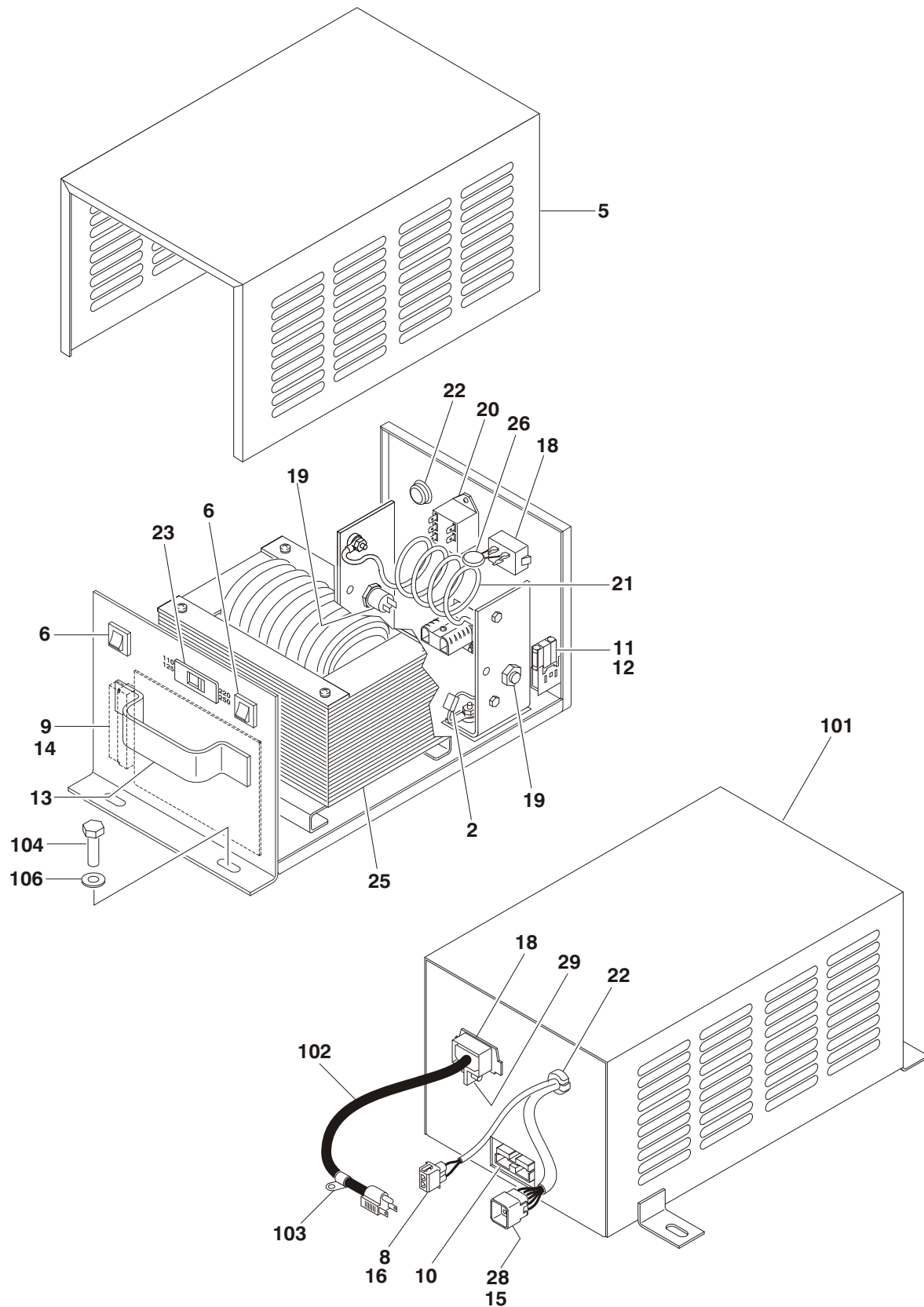


FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (MAC CHARGER WITH BREAKERS ON END)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	BATTERY CHARGER ASSEMBLY	
	0400220	Ref.	All Specs Except Japanese Spec	B
	0400221	Ref.	Japanese Specs Only	B
1	Not Used			
2	7018577	2	Capacitor	
3 to 4	Not Used			
5		1	Case Cover, Replacement Options:	
	7022951		All Specs Except Japanese Spec	
	7022958		Japanese Specs Only	
6		A/R	Circuit Breaker, AC Options:	
	7018514	2	All Specs Except Japanese Spec	
	7018597	1	Japanese Specs Only	
7	Not Used			
8	4460227	1	Receptacle, Female -2 Position (was p/n 7011621)	
	4460267	2	Pin, Male	
9	7022952	1	Control Card, 2500	
10	7022953	1	Cord, DC	
11	7022942	1	Fuse Assembly	
12	7018570	1	Fuse	
13	Not Available	1	Handle	
14	7022954	1	Harness	
15	7022955	1	Harness	
16	7022956	1	Interlock Assembly (Includes Item 3)	
17	Not Used			
18	7022957	1	Plug, Inlet	
19	7020673	1	Rectifier	
20	7018564	1	Relay	
21	7020674	1	Shunt Assembly	
22		1	Connector, Strain Relief Options:	
	7022947		All Specs Except Japanese Spec	
	7011528		Japanese Specs Only	
23	7018586	1	Switch, Slide	
24	Not Used			
25		1	Transformer Options:	
	7022948		All Specs Except Japanese Spec	
	7022959		Japanese Specs Only	
26		1	Varistor Assembly Options:	
	7018589		All Specs Except Japanese Spec	
	7020603		Japanese Specs Only	
27	Not Available		Varistor	
28	4460899	1	Receptacle, Female - 6 Position	
	4460464	6	Pin, Male	
29	70002271	1	Relief, Strain	

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FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (MAC CHARGER WITH BREAKERS ON END) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	BATTERY CHARGER INSTALLATION	
	0272874	Ref.	AC Cable Has Factory Supplied Plug (All Specs Except Japanese Specs)	G
	0273681	Ref.	AC Cable Has Factory Supplied Plug (Japanese Specs)	B
	0272875	Ref.	AC Cable Has Locally Supplied Plug (All Specs)	F
101		1	Battery Charger Assembly Options (See Items 1-28 for Breakdown):	
	0400220		All Specs Except Japanese Specs	
	0400221		Japanese Specs Only	
102		1	Cable, AC Options:	
	1060688		Factory Supplied Plug	
	1060689		Locally Supplied Plug	
103	1321293	1	Clamp	
104	4191707	2	Screw M6 x 16mm	
105	Not Used			
106	4811700	2	Flatwasher M6	

FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (MAC CHARGER WITH BREAKERS ON END) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-8. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER)

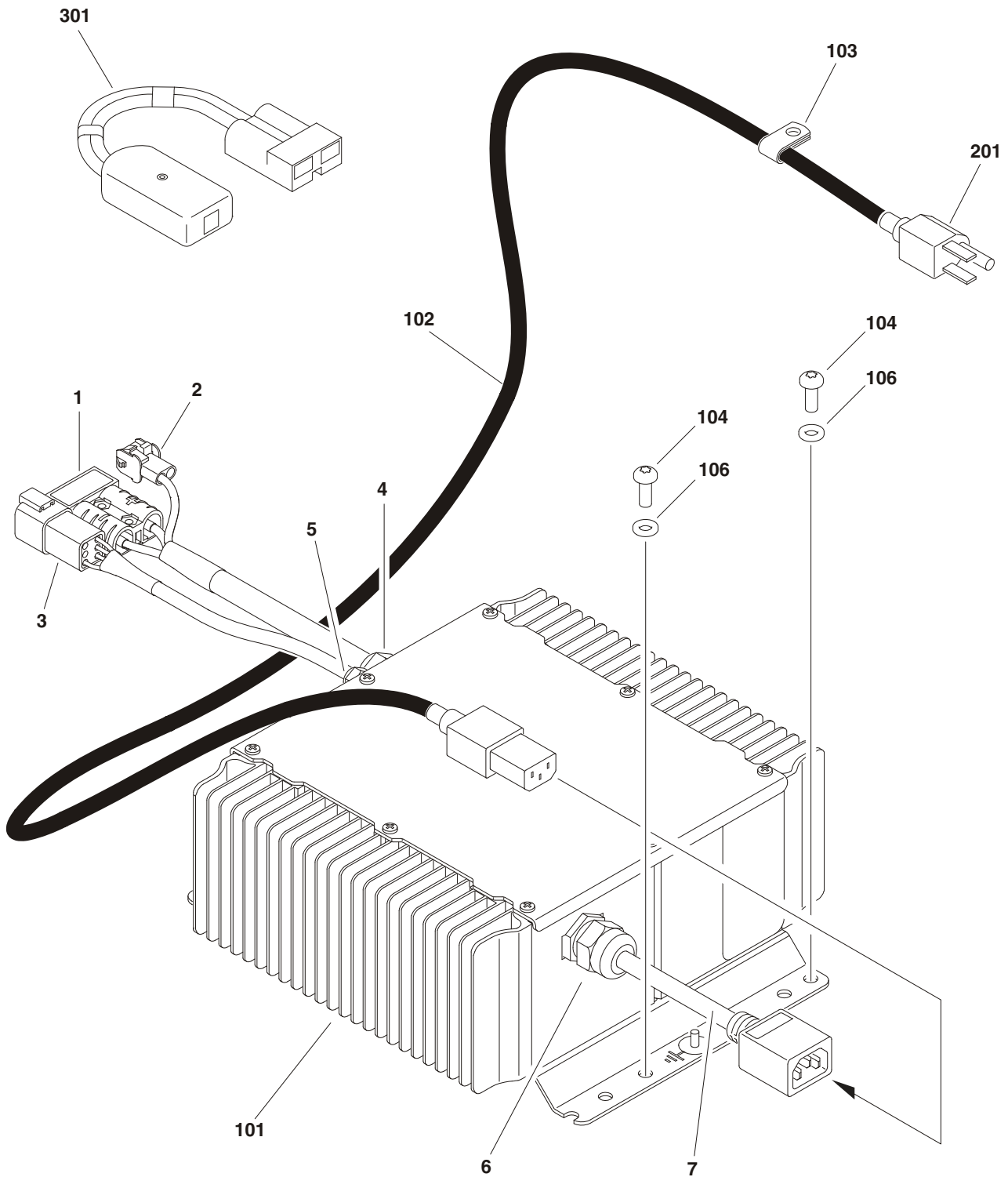


FIGURE 1-8. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	BATTERY CHARGER ASSEMBLY	
1	Not Available	1	Harness with Plug	
	4460648	1	Plug, Anderson Battery Cable	
2	Not Available	1	Harness with Connector	
	4460424	1	Connector, Female - 2 Position	
	4460227	2	Pin, Male	
3	Not Available	1	Harness with Connector	
	4460899	1	Connector, Female - 6 Position	
	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.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882:	
	0272874	Ref.	AC Cable Has Factory Supplied Plug	H
	0272875	Ref.	AC Cable Has Locally Supplied Plug	H
		Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481:	
	0275079	Ref.	AC Cable Has Factory Supplied Plug	B
	0275088	Ref.	AC Cable Has Locally Supplied Plug	B
		Ref.	2030ES/2630ES/2630ES/2646ES/3246ES:	
	0272874	Ref.	AC Cable Has Factory Supplied Plug	H
	0272875	Ref.	AC Cable Has Locally Supplied Plug	H
101	Use 1001128737	1	Battery Charger Assembly (was p/n 0400238 - Kit p/n 1001128737 includes Charger p/n 1001112111 and Battery Temperature Sensor Kit)	
102		1	Cable, AC Options:	
	1060688		Factory Supplied Plug	
	1060689		Locally Supplied Plug	
103		1	Clamp Options:	
	1320136		Insulated Clamp	
	1321293		Non-Insulated Clamp	
104		A/R	Screw M6 Options:	
	4191706		12mm Length	
	4191707		16mm Length	
105	Not Used			
106	4811700	2	Flatwasher M6	

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FIGURE 1-8. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER)

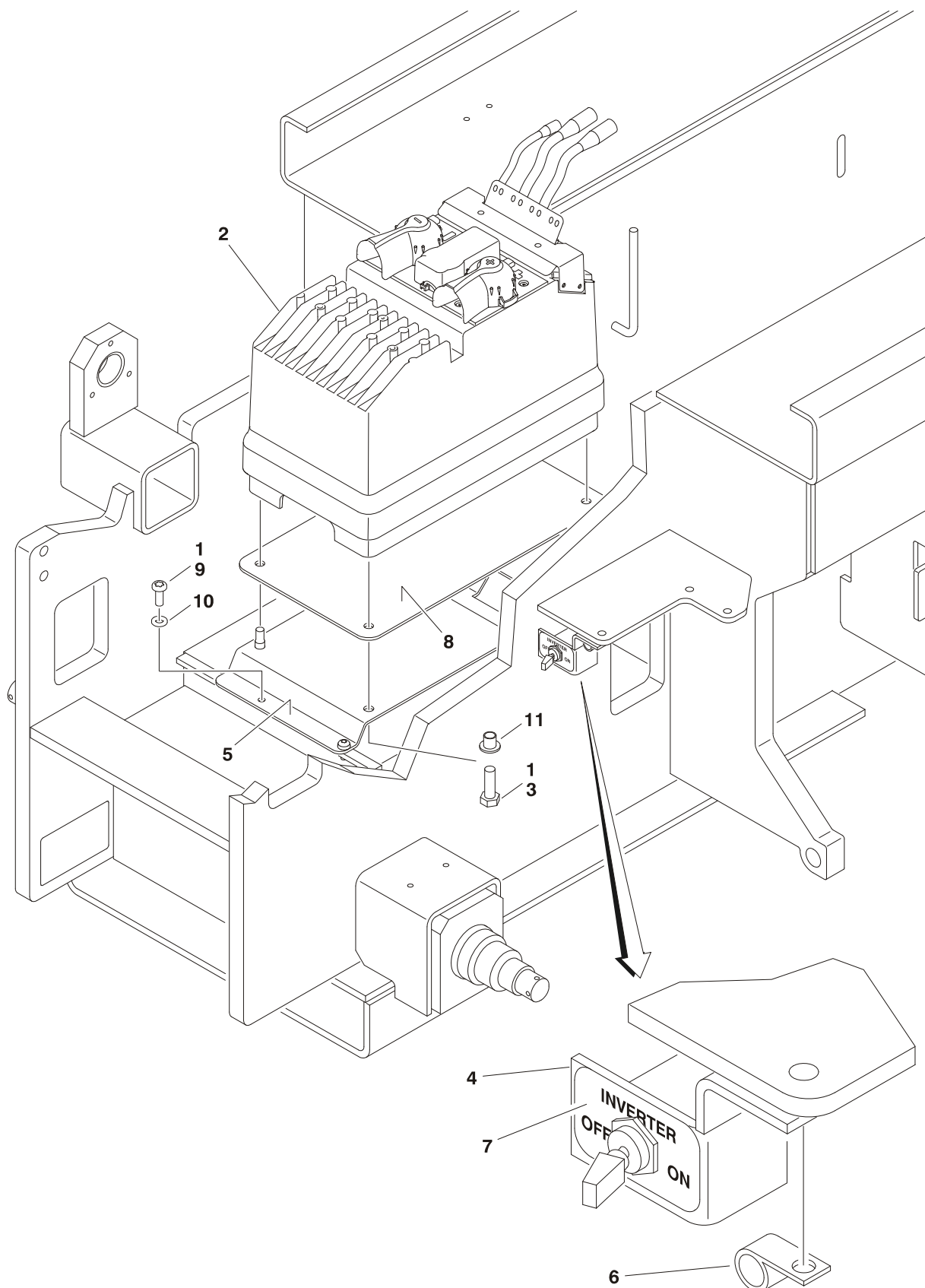
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
201		1	PLUG OPTIONS:	
	Not Available	Ref.	ANSI Spec Plug (Use Item 102 p/n 1060688)	
	Not Available	Ref.	Australian & Japanese Specs (Purchase Locally)	
		Ref.	CE Spec Options:	
	0275666	Ref.	IEC Yellow Receptacle Installation	A
	4461196		Receptacle, IEC Yellow	
	0275667	Ref.	IEC Blue Receptacle Installation	A
	4461199		Receptacle, IEC Blue	
	0275665	Ref.	AFSINT 107 Keyed Ground Receptacle Installation	A
	4461249		Receptacle, AFSINT 107 Keyed Ground	
	0275663	Ref.	CEE 7 Post Ground Receptacle Installation	A
	4461202		Receptacle, CEE 7 Post Ground	
	0275664	Ref.	CEE 7 Side Ground Receptacle Installation	A
	4461205		Receptacle, CEE 7 Side Ground	
301	Use 2915230	1	BATTERY CHARGER REPROGRAM CONTROLLER KIT (WAS P/N 1600466)	

FIGURE 1-8. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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**FIGURE 1-9. BATTERY CHARGER WITH INVERTER ASSEMBLY AND INSTALLATION
(OPTIONAL ON ANSI SPEC MACHINES)**



**FIGURE 1-9. BATTERY CHARGER WITH INVERTER ASSEMBLY AND INSTALLATION
(OPTIONAL ON ANSI SPEC MACHINES)**

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	BATTERY CHARGER ASSEMBLY	
	2902502	Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266	A
	0275103	Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825	C
	0275104	Ref.	2030ES/2630ES	B
	0275105	Ref.	2646ES/3246ES	B
1	0100011	A/R	Compound, Locking	
2	1001093839	1	Charger/Inverter Assembly (was p/n 0400237)	
3		4	Hardware Options:	
	0760812		Bolt M8 x 25mm	
	0760814		Bolt M8 x 30mm	
	3290805		Nut M8	
4	0902780	1	Bracket, Mounting (Remote Switch)	
5		1	Bracket, Mounting (Charger/Inverter) Options:	
			1930ES	
	0903410		USA Built Machines S/N 0200135154 to S/N 0200150266	
	0903444		USA Built Machines S/N 0200150266 to S/N 0200152825	
	0903319		2030ES/2630ES/2646ES/3246ES	
6	1320043	1	Clamp	
7	1705052	1	Decal - On/Off	
8	2820239	1	Insulation, Charger Mounting	
9		A/R	Screw M6 Options:	
	4191706		12mm Length	
	4191707		16mm Length	
10	4811700	2	Flatwasher M6	
11	4740562	4	Washer, Special	
12 to 17	Not Used			
18	1706749	1	Decal - Inverter (Not Shown - Located on Frame Near Inverter)	
19		1	Decal - Hazardous Voltage Options (Not Shown - Located on Platform Near AC Box):	
	1706765		English Language	
	1001136847		Spanish Language	

SECTION 1 FRAME

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

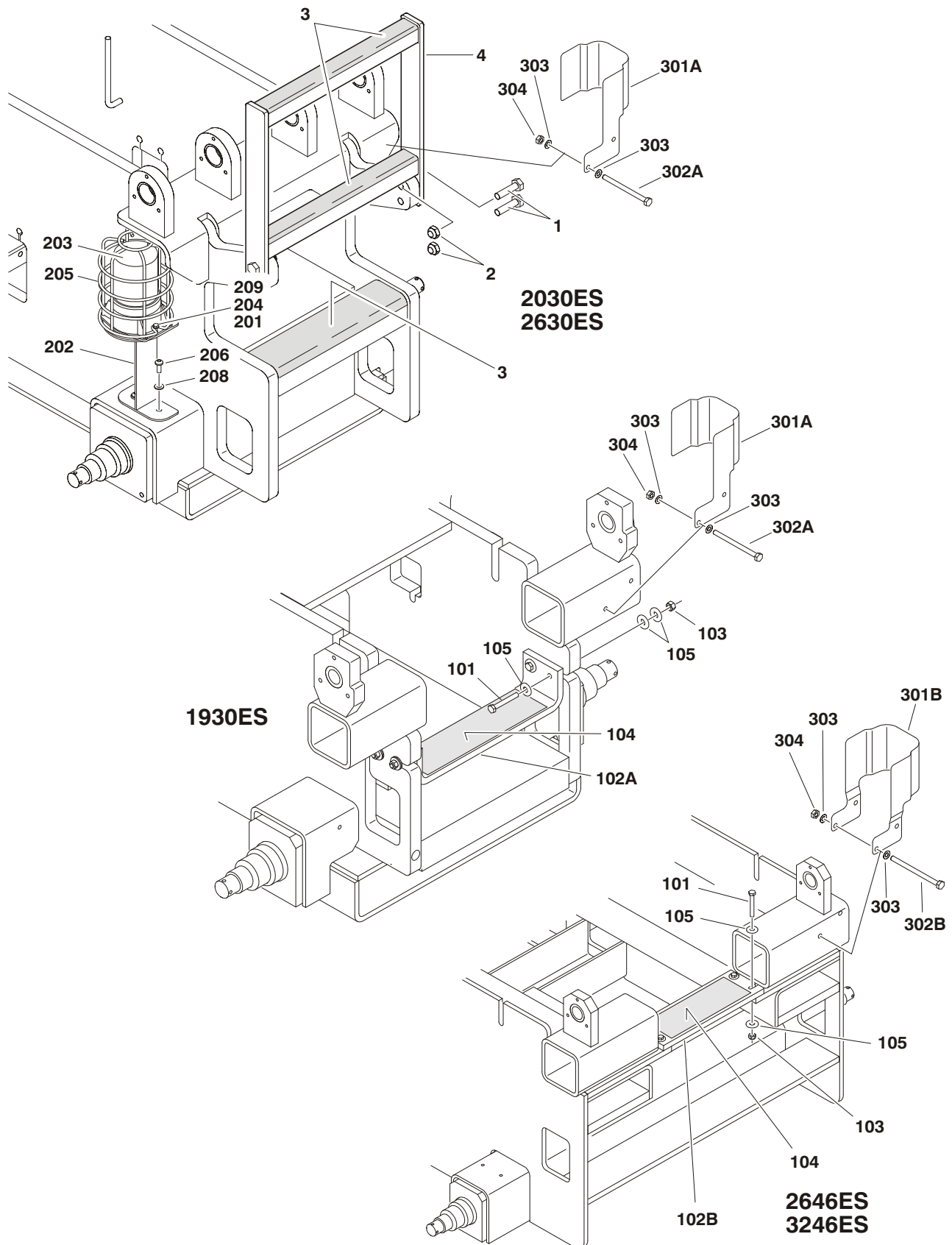


FIGURE 1-10. LADDERS, BEACON LIGHT & ROTARY SENSOR COVER INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	LADDER INSTALLATIONS	
	0272887	Ref.	2030ES	B
	0272888	Ref.	2630ES	B
1	0701016	4	Bolt M10 x 40mm	
2	3291005	4	Locknut M10	
3	4420070	3	Tape, Anti-Skid	
4		1	Ladder Options:	
	4846812		2030ES	
	4846813		2630ES	
		Ref.	LADDER INSTALLATIONS	
	0275120	Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	C
	0275212	Ref.	2646ES/3246ES USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	C
101		4	Bolt M6 Options:	
	0700615		35mm Length	
	0700617		45mm Length	
102		1	Ladder Options:	
102A	2930005		1930ES	
102B	3576349		2646ES/3246ES	
103		4	Locknut Options:	
	3290605		1930ES	
	3290607		2646ES/3246ES	
104	4420080	1	Tape, Anti-Skid	
105	4751400	A/R	Flatwasher 1/4" Wide	
		Ref.	BEACON LIGHT INSTALLATIONS	
	0272309	Ref.	1930ES (Not Shown)	D
	0274012	Ref.	2030ES/2630ES	B
	0272980	Ref.	2646ES/3246ES	D
201	0760410	2	Bolt M4 x 20mm	
202		1	Bracket Options:	
	0902905		1930ES	
	0903086		2030ES/2630ES	
	0902906		2646ES/3246ES	
203	2920161	1	Light, Beacon	
	7016319	1	Bulb, Replacement	
	7016372	1	Len, Replacement	
204	3290405	2	Locknut M4	
205	4060865	1	Guard	
206	4191707	2	Screw M6 x 16mm	
207	Not Used			
208	4811700	A/R	Flatwasher M6	
209	4750800	2	Flatwasher #8 (Wide)	

SECTION 1 FRAME

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

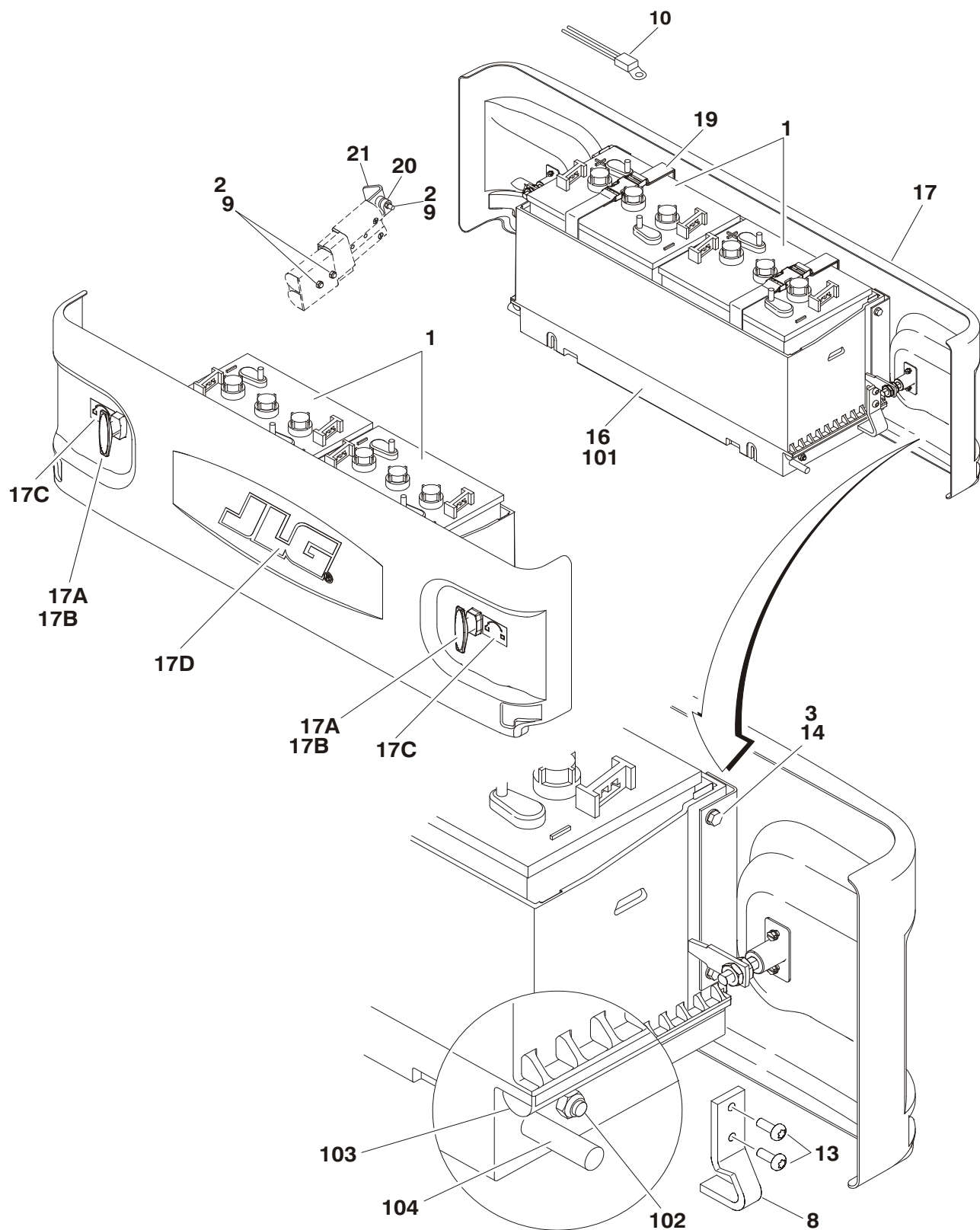
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ROTARY ANGLE SENSOR COVER KIT	
		Ref.	Note: This kit is an optional aftermarket add-on for USA Built Machines S/N 0200117602 to Present Only and Belgium Built Machines S/N 1200001665 to Present Only. Not Available on previous S/Ns due to changes in frame design. Kit also includes instructions. Parts listed below are for service.	
	1001105108	Ref.	1930ES/2030ES/2630ES	
	1001105109	Ref.	2646ES/3246ES	
301		1	Cover Options:	
301A	1001103029		Cover for 1930ES/2030ES/2630ES	
301B	1001103030		Cover for 2646ES/3246ES	
302		2	Bolt M6 Options:	
302A	0760610		Bolt 20mm Length for 1930ES/2030ES/2630ES	
302B	0760612		Bolt 25mm Length for 2646ES/3246ES	
303	4811700	4	Flatwasher 6mm	
304	3290605	2	Locknut M6	

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	
		Ref.	GC Type with 225 AH Rating Batteries:	
		Ref.	1930ES with Standard Covers	
	0272719	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	M
	0275020	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	B
		Ref.	1930ES with Locking Covers	
	0274222	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	E
	0275022	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	B
		Ref.	1930ES (UL Spec) with Locking Covers	
	0274221	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007389	E
	0275021	Ref.	USA Built Machine S/N 0200150266 to S/N 0200152403 - No Belgium Built Machines	B
	0275480	Ref.	USA Built Machines S/N 0200152403 to S/N 0200152825 & Belgium Built Machines S/N 1200007389 to S/N 1200008481	A
		Ref.	2030ES/2630ES/2646ES/3246ES with Standard Covers	
	0272827	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151607 & Belgium Built Machines S/N 1200004293 to S/N 1200008375	L
	0275020	Ref.	USA Built Machines S/N 0200151607 to S/N 0200152825 & Belgium Built Machines S/N 1200008375 to S/N 1200008481	B
		Ref.	2030ES/2630ES/2646ES/3246ES with Locking Covers	
	0274215	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151607 & Belgium Built Machines S/N 1200004293 to S/N 1200008375	D
	0275022	Ref.	USA Built Machines S/N 0200151607 to S/N 0200152825 & Belgium Built Machines S/N 1200008375 to S/N 1200008481	B
		Ref.	2030ES/2630ES/2646ES/3246ES (UL Spec) with Locking Covers	
	0274214	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151607 & Belgium Built Machines S/N 1200004293 to S/N 1200008375	D
	0275021	Ref.	USA Built Machines S/N 0200151607 to S/N 0200152825 & Belgium Built Machines S/N 1200008375 to S/N 1200008481	B

SECTION 2 GROUND COMPONENTS

FIGURE 2-1. BATTERIES AND COVERS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
1	0272720	Ref.	EV Type with 244 AH Rating Batteries:	M
		Ref.	2030ES/2630ES/2646ES/3246ES with Standard Covers	
		Ref.	USA Built Machines S/N 0200135154 to S/N 0200151607 & Belgium Built Machines S/N 1200004293 to S/N 1200008264	
	0275042	Ref.	USA Built Machines S/N 0200151607 to S/N 0200152825 & Belgium Built Machines S/N 1200008264 to S/N 1200008481	C
	0274217	Ref.	2030ES/2630ES/2646ES/3246ES with Locking Covers	E
		Ref.	USA Built Machines S/N 0200135154 to S/N 0200151607 & Belgium Built Machines S/N 1200004293 to S/N 1200008264	
	0275044	Ref.	USA Built Machines S/N 0200151607 to S/N 0200152825 & Belgium Built Machines S/N 1200008264 to S/N 1200008481	C
	0274216	Ref.	2030ES/2630ES/2646ES/3246ES (UL Spec) with Locking Covers	E
		Ref.	USA Built Machines S/N 0200135154 to S/N 0200151607 & Belgium Built Machines S/N 1200004293 to S/N 1200008264	
2	0275043	Ref.	USA Built Machines S/N 0200151607 to S/N 0200152825 & Belgium Built Machines S/N 1200008264 to S/N 1200008481	C
	0400215	4	Battery Options:	
			GC Type with 225 AH Rating	
	0400216	A/R	EV Type with 244 AH Rating (Not Available on 1930ES)	
			Bolt M6 Options:	
	0700615	8	35mm Length	
			40mm Length	
	0760610		Bolt M6 x 20mm	
3	Not Used		Plate, Slide Stop Options:	
			Left Side	
	3574981		Right Side	
	3574984			
	3290605	A/R	Locknut M6	
	1001127269	1	Temperature Sensor Kit (Includes Sensor, Wire Nut & Instructions)	
4	1001112113	1	Sensor, Temperature	
			(Note: Used on machines with Battery Charger Replacement Kit p/n 1001128737 installed)	
	Not Used			
	4191707	8	Screw M6 x 16mm	
	4811700	8	Flatwasher M6	
	Not Used			
5	Not Used			
	2		Tray Assembly Options (See Items 101-106 for Breakdown):	
			USA & Belgium	
	0273698		UL Spec	
	0861678			

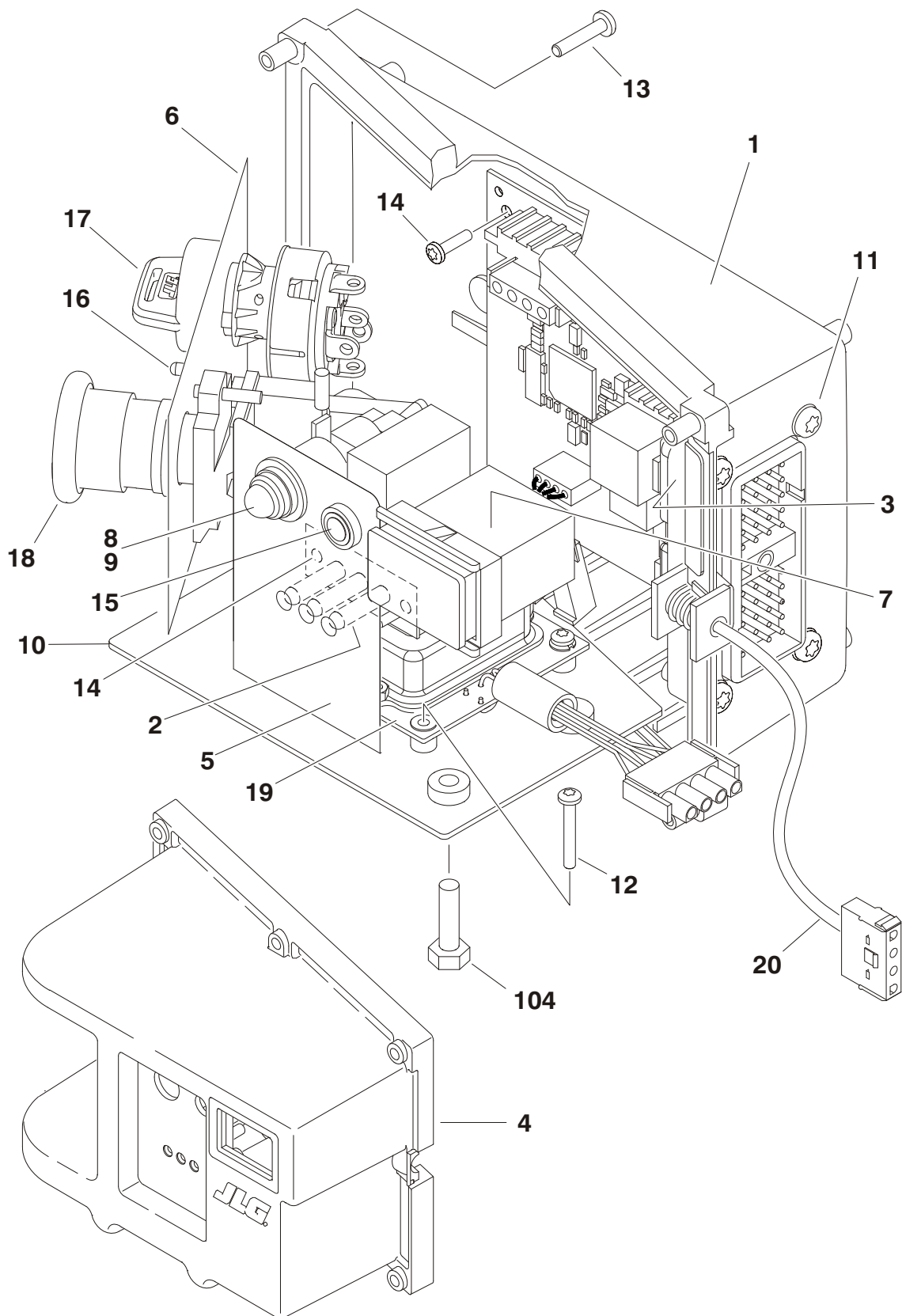
SECTION 2 GROUND COMPONENTS

FIGURE 2-1. BATTERIES AND COVERS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
17	1671202	2	Cover Options:	
	1671204		Cover with Decals & Standard Latches	
	1671204		Cover with Decals & Lockable Latches	
	1671203	1	Cover, UL Spec with Decals & Lockable Latches	
			Cover, Battery Less Decals & Latches	
			(Note: Must Purchase Decals & Latches Separately)	
17A		4	Latch Options (2 Per Cover):	
	2940174		Standard	
	2940175		Locking	
	7027863		Key	
17B	4750800	4	Flatwasher #8 (2 Per Cover) (was p/n 4071102 Shim)	
17C	1706350	2	Decal - Cover	
17D	1705754	1	Decal - JLG	
18	Not Used			
19	4240172	4	Strap, Battery (UL Spec)	
20	1321130	1	Clamp (UL Spec) (1930ES Only - USA Built Machines S/N 0200152403 to S/N 0200152825 & Belgium Built Machines S/N 1200007389 to S/N 1200008481)	
21	2560205	1	Handle, Disconnect (UL Spec) (1930ES Only - USA Built Machines S/N 0200152403 to S/N 0200152825 & Belgium Built Machines S/N 1200007389 to S/N 1200008481)	
		Ref.	TRAY ASSEMBLY OPTIONS:	
	0273698	Ref.	USA & Belgium	E
	0861678	Ref.	UL Spec	C
101	Purchase Item 16	1	Tray, Battery	
102	3290605	2	Locknut	
103	3340975	2	Pad, Wear (Note: Wear Pad not available separately from Tray Assembly on some applications.)	
104			Stop, Battery Box Options:	
			NOTE: Requires (2) 3820032 Rivet & (1) 4811600 Washer	
	4220252	1	LH (was p/n 4220208)	
	4220253	1	RH (was p/n 4220208)	
105	3820032	A/R	Rivet (Not Shown)	
106	4811600	A/R	Washer (Not Shown)	

SECTION 2 GROUND COMPONENTS

FIGURE 2-2.GROUND CONTROL ASSEMBLY & INSTALLATION



SECTION 2 GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY & INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	GROUND CONTROL ASSEMBLY	
	0272780	Ref.	ANSI & ANSI Export & UL Specs	R
	0861669	Ref.	ANSI Export & Japanese Spec	H
	0273444	Ref.	Australian Spec	O
	0272781	Ref.	CE Spec	R
1	0380025	1	Box, Ground Control	
2	0610161	1	Board, PC (Battery Charger LED)	
3	1600419	1	Board, PC (Ground Control)	
		Ref.	Note: PC Board must be recalibrated when replaced.	
	2915039	1	Upgrade Kit (Includes Cables, Programming Instructions & CD Software) (Note: Use with p/n 1600419 PC Board. Must be Purchased Separately.)	B
4	1671105	1	Cover, Front	
5		1	Decal - LED Options:	
	1705696		ANSI/ANSI Export/Australian/UL Specs	
	1705697		ANSI Export/Australian/CE/Japanese Specs	
6	1705698	1	Decal - Function	
7	2420172	1	Hourmeter	
8		1	Component Options:	
	3520193		Plug (ANSI/ANSI Export/Australian/UL Specs)	
	2920026		Lamp (ANSI Export/CE/Japanese Specs)	
9		A/R	Bulb Options:	
	Not Required	0	ANSI/ANSI Export/Australian/UL Specs	
	2920094	1	ANSI Export/CE/Japanese Specs	
10	4340739	1	Plate, Mounting	
11	3900336	4	Screw, Torx #10-32NF x 1/2"	
12	3900356	4	Screw, Torx M3.5 x 16mm	
13	3900338	6	Screw, Torx M4 x 20mm	
14	3900339	5	Screw, Plastite #6 x 1/2"	
15	4360069	1	Breaker, Circuit - 10 Amp	
16	4360328	1	Switch, Toggle	
17		1	Keyswitch Options:	
	4360469		ANSI/ANSI Export/Japanese/UL Spec	
	4360470		Australian/CE Specs	
	2860030	1	Key, Replacement (Fits All Specs)	
18	4360475	1	Switch, Emergency Stop	
	7020175	1	Cap	
	7020176	1	Block, Contact	
19	Use 1810140	1	Module, Tilt (was p/n 4000006)	
20	4922865	1	Harness, Control Box (See Section 7 for Breakdown)	
		Ref.	GROUND CONTROL BOX INSTALLATION	
	0272810	Ref.	ANSI & ANSI Export & UL Specs	F
	0273966	Ref.	ANSI Export & Japanese Specs	C
	0273443	Ref.	Australian Spec	D
	0272811	Ref.	CE Spec	F
101 to 103	Not Used			
104	0700615	3	Bolt M6 x 35mm	

SECTION 2 GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY & INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272878	Ref.	ANTI-VANDELISM PACKAGE INSTALLATION (NOT SHOWN)	A
	1671124	1	Cover, Lockable Ground Control Box	

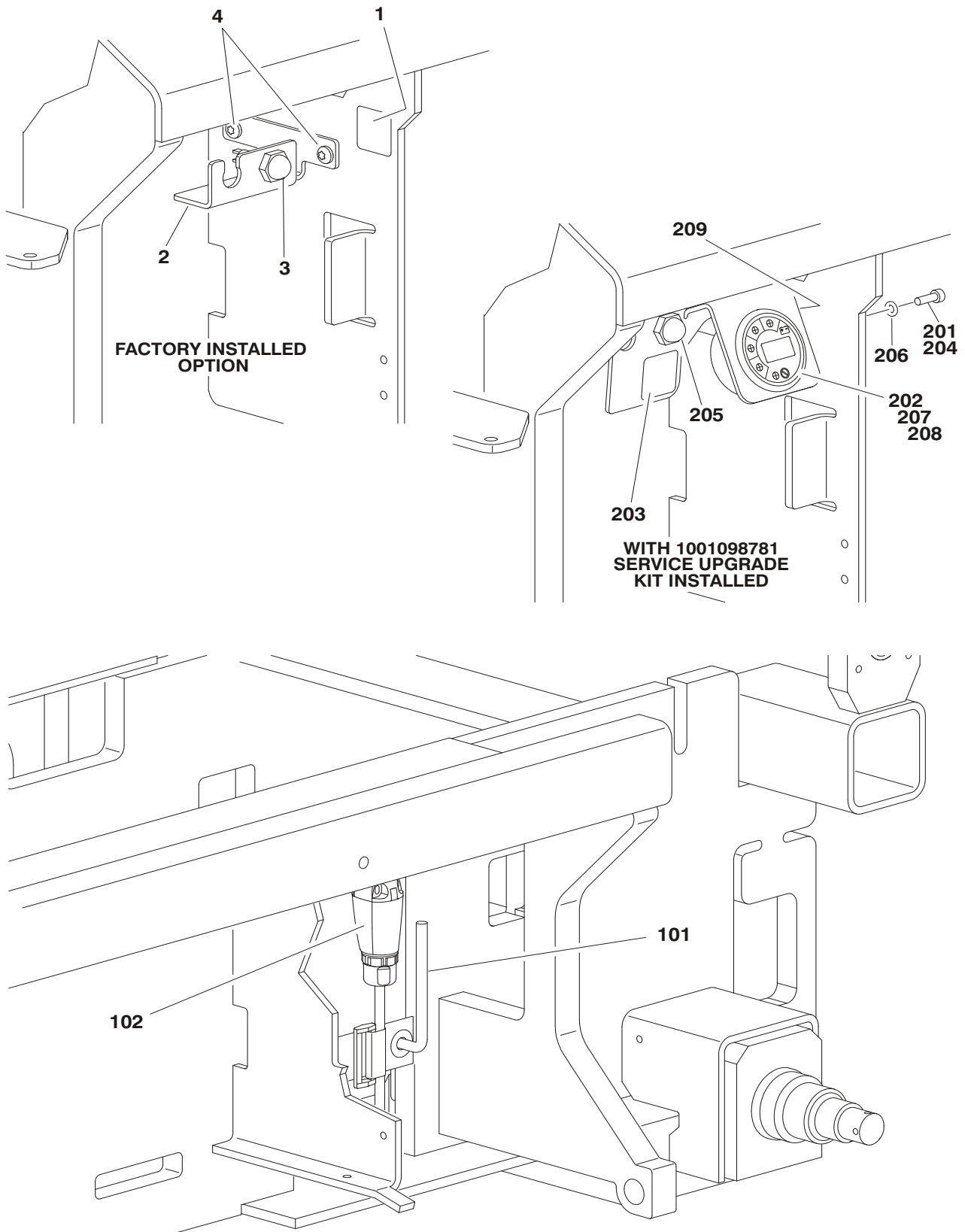
SECTION 2 GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY & INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 2 GROUND COMPONENTS

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



SECTION 2 GROUND COMPONENTS

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

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	NOTE: Items 1-4 or 101 & 102 were factory installed options for machines with these S/Ns. Machines may be upgraded to include an MDI (Multifunction Digital Indicator) Gauge by installing p/n 1001098781 (Items 201- 210).	
	0275603	Ref.	BRAKE RELEASE SWITCH INSTALLATION	A
1	1706679	1	Decal - Brake Release	
2	0903598	1	Bracket	
3	4360387	1	Switch, Push Button	
4	4191706	2	Screw M6 x 12mm	
	0275432	Ref.	BRAKE RELEASE ONLY INSTALLATION	A
101	2902331	1	Mount & Screw Kit	
102	4922944	1	Bracket Disconnect/Release Switch Assembly (See Section 7 for Breakdown as Design May Vary)	
	1001098781	Ref.	MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE & BRAKE RELEASE SERVICE UPGRADE KIT	A
201	0100011	A/R	Compound, Locking	
202	0100048	A/R	Grease, Dielectric	
203	1706679	1	Decal - Brake Release	
204	4031607	2	Capscrew M5 x 16mm	
205	4360387	1	Switch, Push Button	
206	4811600	2	Flatwasher M5	
207	1001092454	1	Gauge, MDI (Multifunction Digital Indicator)	
208	1001093556	1	MDI Harness (Not Shown - See Section 7 for Breakdown)	
209	1001094203	1	Bracket	
210	1001094359	1	Decal - Troubleshooting (Not Shown - Located on Platform Placard Plate)	

SECTION 2 GROUND COMPONENTS

**FIGURE 2-3. BRAKE DISCONNECT/RELEASE & MDI (MULTIFUNCTION DIGITAL INDICATOR)
GAUGE INSTALLATIONS (OPTIONAL) (CONTINUED)**

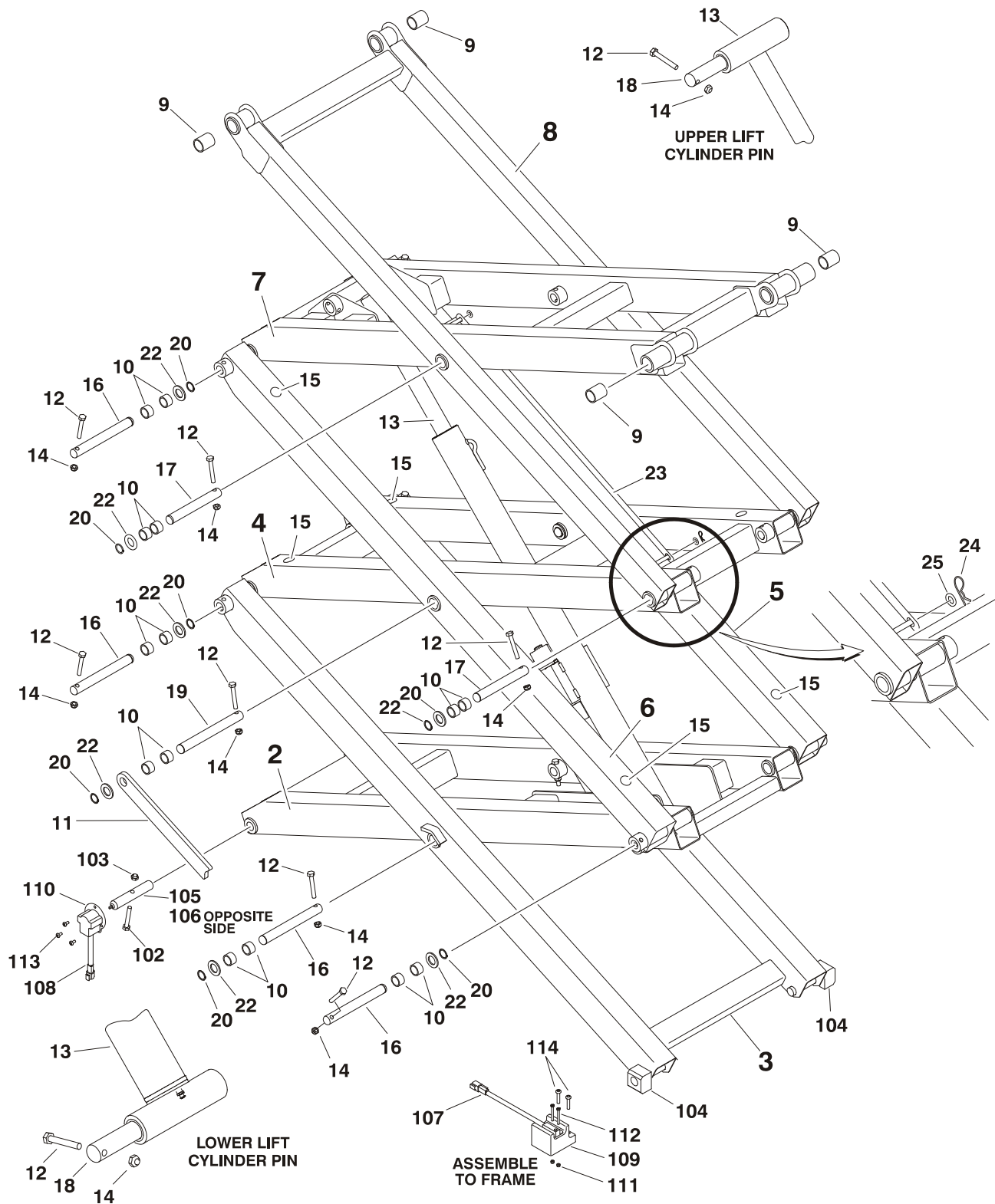
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 3

SCISSOR ARMS

SECTION 3 SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)



SECTION 3 SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272701	Ref.	SCISSOR ARMS ASSEMBLY - 1930ES	N
1	Not Used			
2	0200809	1	Arm - Lower Inboard	
3	0200810	1	Arm - Lower Outboard	
4	0200811	1	Arm - Mid Inboard	
5	0200812	1	Arm - Mid Outboard (Left Side)	
6	0200813	1	Arm - Mid Outboard (Right Side)	
7	0200814	1	Arm - Upper Inboard	
8	0200815	1	Arm - Upper Outboard	
9	0440266	4	Bearing	
10	0440264	28	Bearing	
11	3574159	1	Prop, Safety	
12	0701022	16	Bolt M10 x 70mm	
13	1684265	1	Lift Cylinder Assembly (See Section 5 for Breakdown)	
14	3291005	16	Locknut M10	
15	3340962	16	Pad	
16	3423031	9	Pin	
17	3423032	4	Pin	
18	3423038	2	Pin	
19	3423042	1	Pin	
20	3760115	14	Ring, Retaining	
21	Not Used			
22	4740531	15	Washer, Special	
23	1180396	1	Carrier, Cable	
24	3420156	2	Pin, Cotter	
25	4812000	2	Flatwasher M10	

	2902242	1	Arms Kit - 1930ES (Includes Items 2-11 & 23)	P
	0272735	Ref.	SCISSOR ARMS INSTALLATIONS - 1930ES	H
101	Not Used			
102	0701020	2	Bolt M10 x 60mm	
103	3291005	2	Locknut M10	
104	3340964	2	Pad, Slide	
105	3423030	1	Pin, Sensor	
106	3423033	1	Pin	
107	4360502	1	Switch, Proximity Sensor	
108	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
109	3200453	1	Mount, Switch	
110	3200454	1	Mount, Switch	
111	3300474	2	Locknut M4	
112	3900334	2	Screw M4	
113	4191708	3	Screw M6 x 12mm	
114	4191709	2	Screw M6 x 25mm	

SECTION 3 SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
115	1061036	1	Cable, Manual Descent (Not Shown)	
	7020218	1	T-Handle (with 1/4"-20 Threads)	
	70001878	1	T-Handle (with 5mm Threads)	
116	3321402	1	Jam Nut 1/4"-28NF (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	2	Tape, Anti-Skid (Not Shown)	

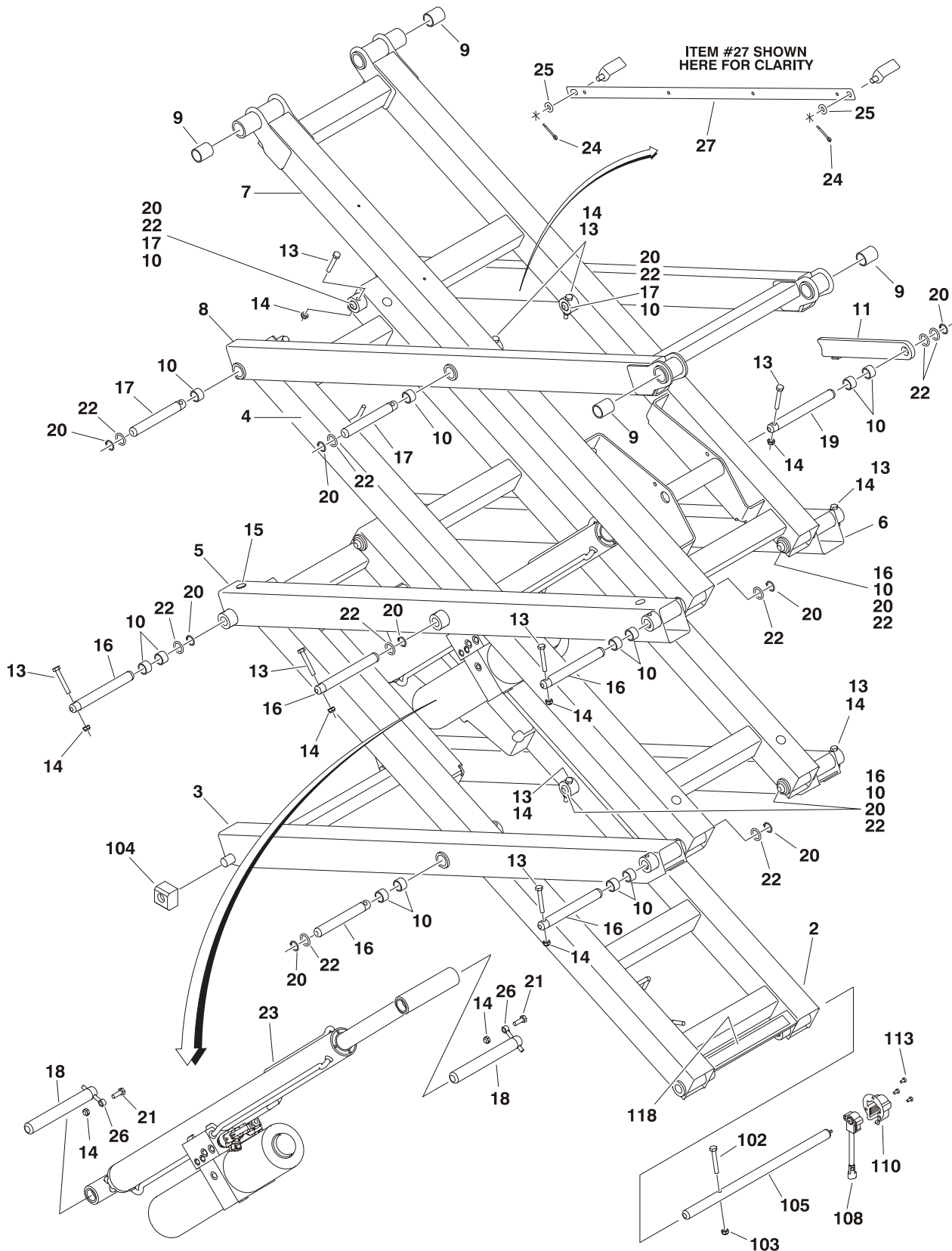
SECTION 3 SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 3 SCISSOR ARMS

FIGURE 3-2.SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)



SECTION 3 SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	SCISSOR ARMS ASSEMBLY - 1930ES	
	0274841	Ref.	Machines with Standard Hydraulic Oil	B
	0200838	Ref.	Machines with Biodegradeable Hydraulic Oil	A
1	Not Used			
2	0200825	1	Arm - Lower Inboard	
3	0200810	1	Arm - Lower Outboard	
4	0200824	1	Arm - Mid Inboard	
5	0200823	1	Arm - Mid Outboard (Left Side)	
6	0200822	1	Arm - Mid Outboard (Right Side)	
7	0200821	1	Arm - Upper Inboard	
8	0200815	1	Arm - Upper Outboard	
9	0440266	4	Bearing	
10	0440264	28	Bearing	
11	3574159	1	Prop, Safety	
12	Not Used			
13	0701022	14	Bolt M10 x 70mm	
14	3291005	16	Locknut M10	
15	3340962	16	Pad	
16	3423031	9	Pin	
17	3423032	4	Pin	
18	3423038	2	Pin	
19	3423042	1	Pin	
20	3760115	14	Ring, Retaining	
21	0761014	2	Bolt M10 x 30mm	
22	4740531	15	Washer, Special	
23		1	Lift Cylinder Assembly Options (See Section 5 for Breakdown):	
	1684484		Machines with Standard Hydraulic Oil	
	1684526		Machines with Biodegradeable Hydraulic Oil	
24	3450303	2	Pin, Cotter 3/32" x 3/4"	
25	4812000	2	Flatwasher M10	
26	3841143	2	Keeper, Pin	
27	3576093	1	Bar, Cable Carrier	

	2902455	1	Arms Kit - 1930ES (Includes Items 2-11)	E
		Ref.	SCISSOR ARMS INSTALLATIONS - 1930ES	
	0274874	Ref.	Machines with Standard Hydraulic Oil	C
	0275692	Ref.	Machines with Biodegradeable Hydraulic Oil	A
101	Not Used			
102	0701022	1	Bolt M10 x 70mm	
103	3291005	1	Locknut M10	
104	3340964	2	Pad, Slide	
105	3423239	1	Pin, Sensor	
106 to 107	Not Used			
108	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	

SECTION 3 SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
109	Not Used			
110	3200454	1	Mount, Switch	
111 to 112	Not Used			
113	4191706	3	Screw M6 x 12mm	
114	Not Used			
115	1061036	1	Cable, Manual Descent (Not Shown)	
	7020218	1	T-Handle (with 1/4"-20 Threads)	
	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	

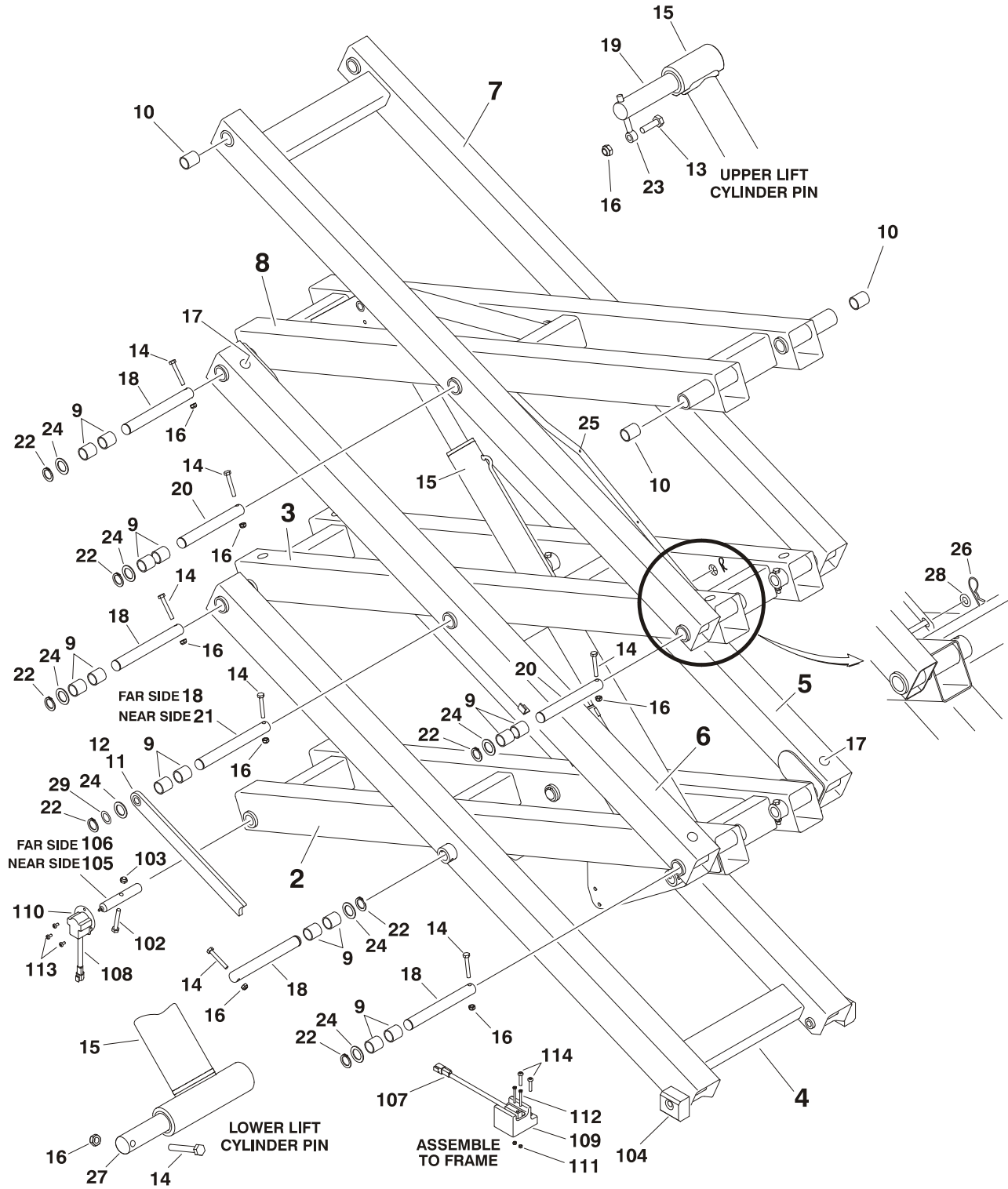
SECTION 3 SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 3-3.SCISSOR ARMS INSTALLATION - 2030ES



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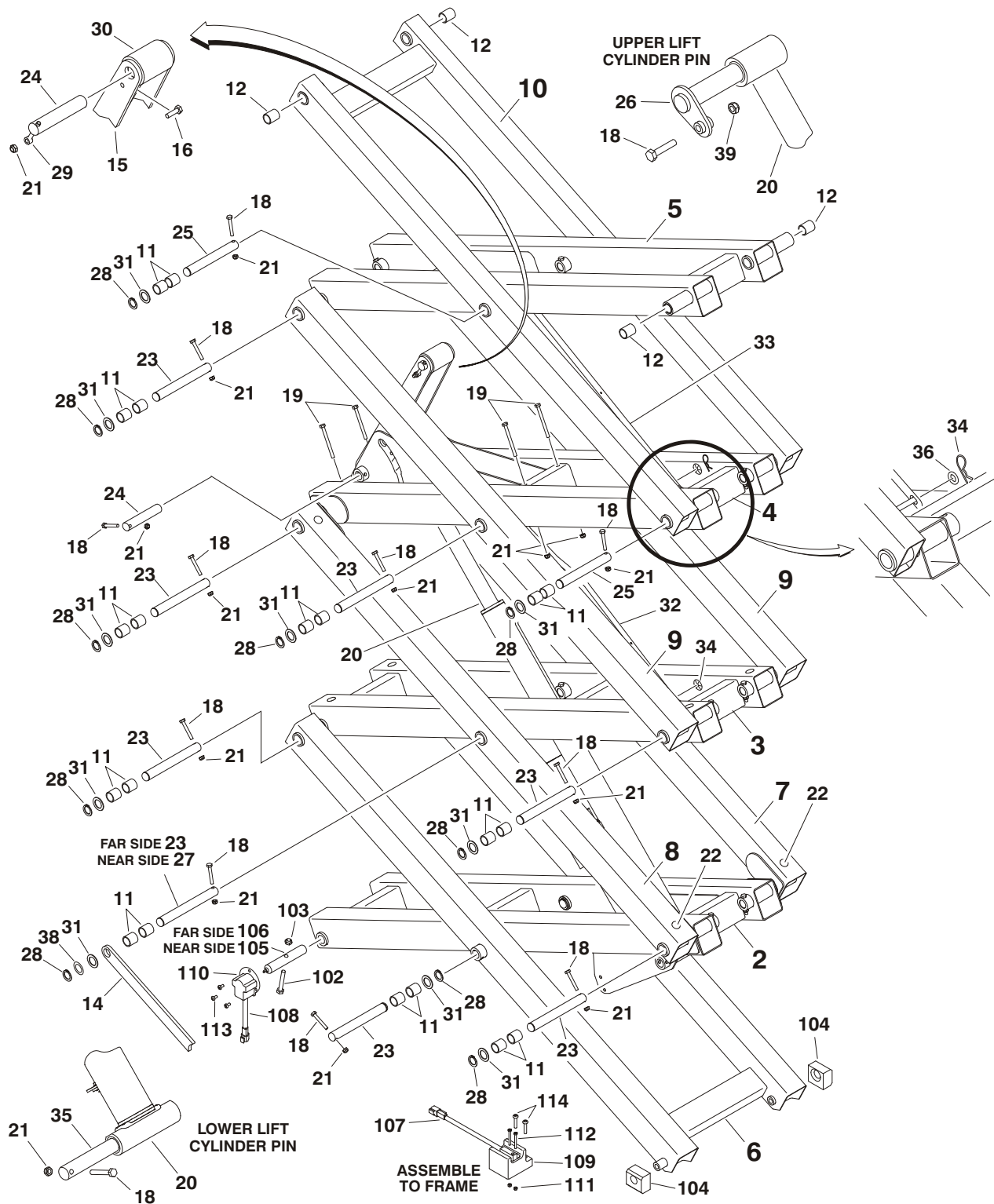
FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2030ES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272729	Ref.	SCISSOR ARMS INSTALLATIONS - 2030ES	M
1	Not Used			
2	0200798	1	Arm - Lower Inboard	
3	0200799	1	Arm - Mid Inboard	
4	0200802	1	Arm - Lower Outboard	
5	0200803	1	Arm - Mid Outboard (Left Side)	
6	0200804	1	Arm - Mid Outboard (Right Side)	
7	0200807	1	Arm - Upper Outboard	
8	0200816	1	Arm - Upper Inboard	
9	0962006	28	Bearing	
10	0440267	4	Bearing	
11	0440266	1	Bearing	
12	3574161	1	Bar, Prop Attach	
13	0701015	1	Bolt M10 x 35mm	
14	0701022	15	Bolt M10 x 70mm	
15	1684258	1	Lift Cylinder Assembly (See Section 5 for Breakdown)	
16	3291005	16	Locknut M10	
17	3340962	16	Pad, Arm	
18	3422997	9	Pin	
19	3423067	1	Pin	
20	3423036	4	Pin	
21	3423014	1	Pin	
22	3760387	14	Ring, Retaining	
23	3841143	1	Keeper, Pin	
24	4740438	14	Washer, Special	
25	1180382	1	Carrier, Cable	
26	3420156	2	Pin, Cotter	
27	3423038	1	Pin	
28	4812000	2	Flatwasher M10	
29	4071094	A/R	Shim, Spacer	

	2902241	1	Scissor Arm Kit - 2030ES (Includes Items 2-10,12 & 25)	N
	0272730	Ref.	LIMIT SWITCHES INSTALLATION	D
101	Not Used			
102	0701022	2	Bolt M10 x 70mm	
103	3291005	2	Locknut M10	
104	3340957	2	Pad, Slide	
105	3423016	1	Pin	
106	3423017	1	Pin	
107	4360502	1	Switch, Proximity Sensor	
108	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
109	3200453	1	Mount, Switch	
110	3200454	1	Mount, Switch	
111	3300474	2	Locknut M4	
112	3900334	2	Screw M4	
113	4191706	3	Screw M6 x 12mm	
114	4191709	2	Screw M6 x 25mm	

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FIGURE 3-4.SCISSOR ARMS INSTALLATION - 2630ES



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FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2630ES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272728	Ref.	SCISSOR ARMS INSTALLATIONS - 2630ES	N
1	Not Used			
2	0200798	1	Arm - Lower Inboard	
3	0200799	1	Arm - Lower Mid Inboard	
4	0200800	1	Arm - Upper Mid Inboard	
5	0200801	1	Arm - Upper Inboard	
6	0200802	1	Arm - Lower Outboard	
7	0200803	1	Arm - Lower Mid Outboard (Left Side)	
8	0200804	1	Arm - Lower Mid Outboard (Right Side)	
9	0200805	2	Arm - Upper Mid Out board	
10	0200807	1	Arm - Upper Outboard	
11	0440267	42	Bearing	
12	0440266	4	Bearing	
13	Not Used			
14	3574161	1	Bar, Prop Attach	
15	4846752	1	Kicker, Arm	
16	0701015	1	Bolt M10 x 35mm	
17	0701018	1	Bolt M10 x 50mm	
18	0701022	18	Bolt M10 x 70mm	
19	0701029	4	Bolt M10 x 120mm	
20	1684302	1	Lift Cylinder Assembly (See Section 5 for Breakdown)	
21	3291005	23	Locknut M10	
22	3340962	24	Pad, Arm	
23	3422997	15	Pin	
24	3422998	1	Pin	
25	3423036	4	Pin	
26	3423039	1	Pin	
27	3423014	1	Pin	
28	3760387	20	Ring, Retaining	
29	3841143	1	Keeper, Pin	
30	3860107	1	Roller	
31	4740438	20	Washer, Special	
32	1180382	1	Carrier, Cable	
33	1180383	1	Carrier, Cable	
34	3420156	2	Pin, Cotter	
35	3423038	1	Pin	
36	4812000	2	Flatwasher M10	
37	3423067		Pin (Not Shown)	
38	4071094	1	Shim, Spacer	
39	3291007	1	Locknut M10	

	2902240	1	Scissor Arm Kit - 2630ES (Includes Items 2-12,14,15, 32 & 33)	O
	0272608	Ref.	LIMIT SWITCHES INSTALLATION	D
101	Not Used			
102	0701022	2	Bolt M10 x 70mm	
103	3291005	2	Locknut M10	

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FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2630ES (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
104	3340957	2	Pad, Slide	
105	3423016	1	Pin	
106	3423017	1	Pin	
107	4360502	1	Switch, Proximity Sensor	
108	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
109	3200453	1	Mount, Switch	
110	3200454	1	Mount, Switch	
111	3300474	2	Locknut M4	
112	3900334	2	Screw M4	
113	4191706	3	Screw M6 x 12mm	
114	4191709	2	Screw M6 x 25mm	

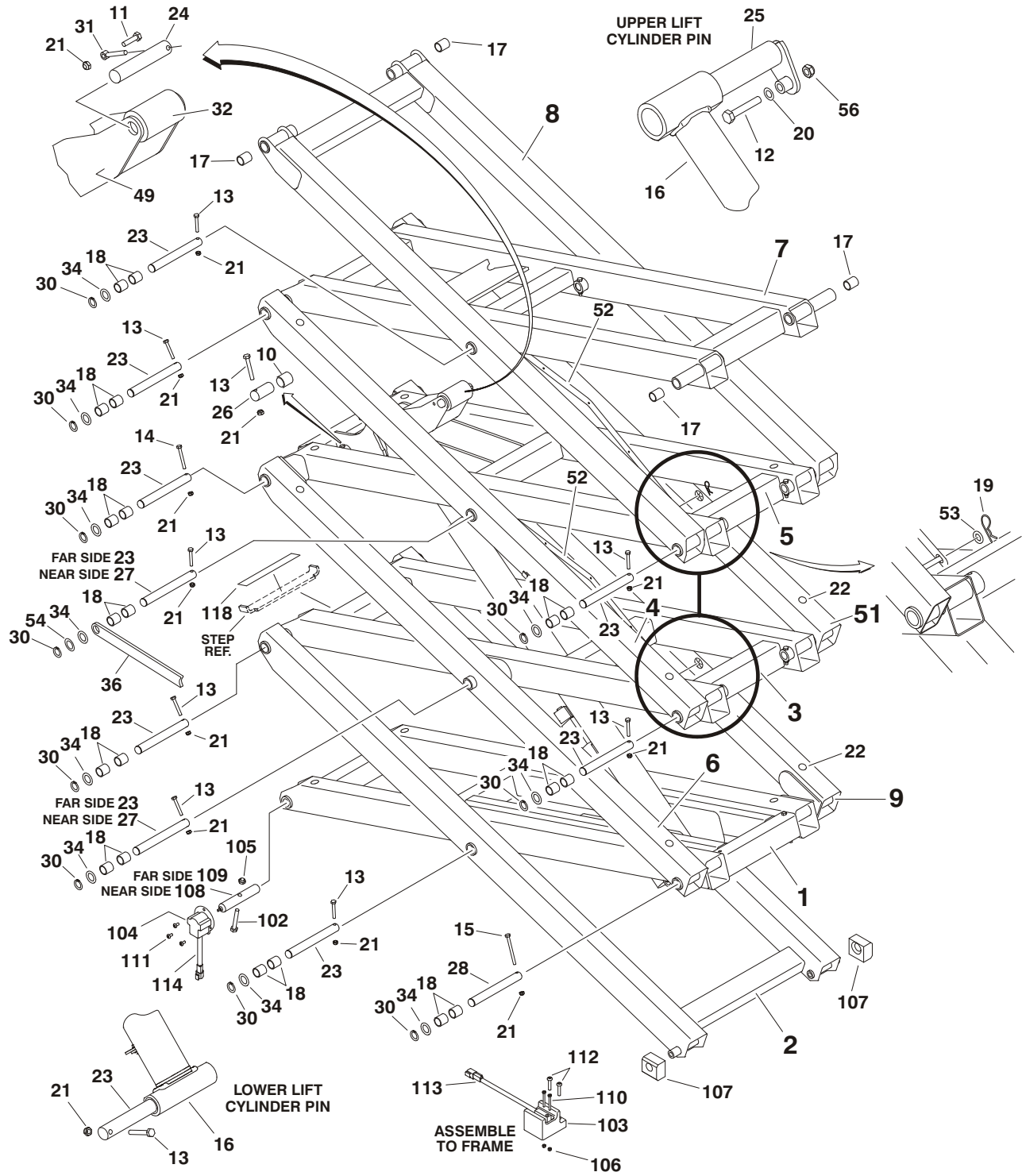
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FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2630ES (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 3-5.SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151606 & BELGIUM BUILT MACHINES BUILT S/N 1200004293 TO S/N 1200008265)



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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151606 & BELGIUM BUILT MACHINES BUILT S/N 1200004293 TO S/N 1200008265)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	SCISSOR ARMS ASSEMBLIES - 2646ES/3246ES	
	0272929	Ref.	2646ES	N
	0272928	Ref.	3246ES	N
1	0200782	1	Arm - Lower Inboard	
2	0200783	1	Arm - Lower Outboard	
3	0200784	1	Arm - Lower Mid Inboard	
4	0200785	1	Arm - Upper Mid Outboard (Right Side)	
5	0200786	1	Arm - Upper Mid Inboard	
6	0200787	1	Arm - Lower Mid Outboard (Right Side)	
7	0200788	1	Arm - Upper Inboard	
8	0200789	1	Arm - Upper Outboard	
9	0200808	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		1	Lift Cylinder Assembly Options (See Section 5 for Breakdown):	
	1684260		2646ES	
	1684257		3246ES	
17	0962155	4	Bearing	
18	0962006	40	Bearing	
19	3420156	4	Pin, Cotter	
20	4812000	1	Flatwasher M10 (Note: Used as a Shim when Head of p/n 3423009 Pin Rubs p/n 49 Kicker.)	
21	3291005	24	Locknut M10	
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	
29	Not Used			
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller	
33	Not Used			
34	4740438	20	Washer, Special	
35	Not Used			
36	3574161	1	Prop, Safety	
37 to 48	Not Used			
49	4846684	1	Kicker, Arm	
50	Not Used			
51	0200817	1	Arm - Upper Mid Outboard (Left Side)	

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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151606 & BELGIUM BUILT MACHINES BUILT S/N 1200004293 TO S/N 1200008265) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
52	1180380	2	Carrier, Cable	
53	4812000	2	Flatwasher M10	
54	4071094	A/R	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	1	Locknut M10	
	2902236	1	Scissor Arm Kit - 2646ES/3246ES (Includes Items 1-10,17,18,36, 49,51 & 52)	L
		Ref.	SCISSOR ARMS INSTALLATIONS - 2646ES/3246ES	
	0272623	Ref.	2646ES	D
	0272622	Ref.	3246ES	D
101	Not Used			
102	0701022	2	Bolt M10 x 70mm	
103	3200453	1	Mount, Switch	
104	3200454	1	Mount, Switch	
105	3291005	2	Locknut M10	
106	3300474	2	Locknut M4	
107	3340957	2	Pad, Slide	
108	3423016	1	Pin, Sensor	
109	3423017	1	Pin	
110	3900334	2	Screw M4	
111	4191706	3	Screw M6 x 12mm	
112	4191709	2	Screw M6 x 25mm	
113	4360502	1	Switch, Proximity Sensor	
114	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
115 to 117	Not Used			
118	4420070	2	Tape, Anti-Skid	

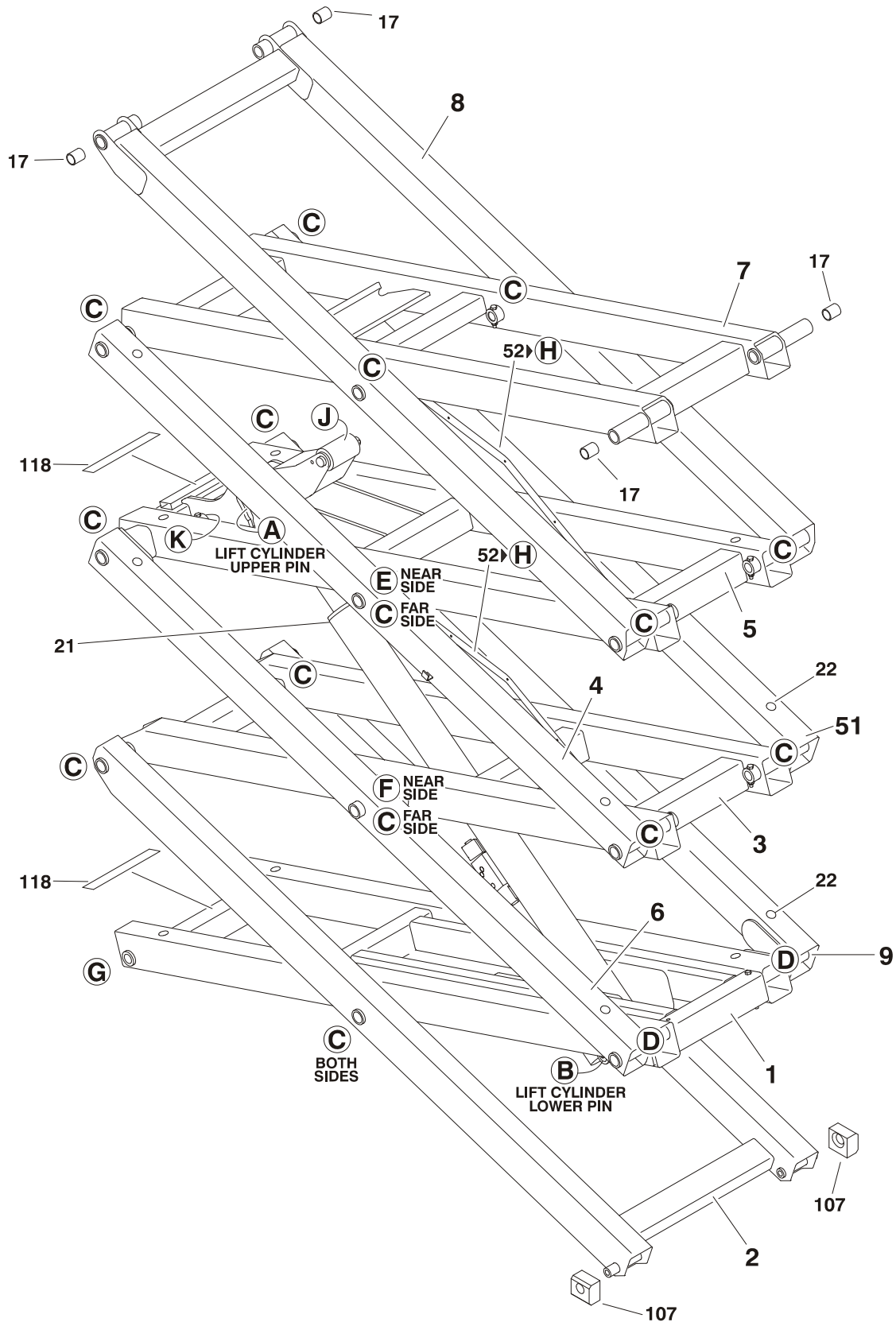
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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151606 & BELGIUM BUILT MACHINES BUILT S/N 1200004293 TO S/N 1200008265) (CONTINUED)

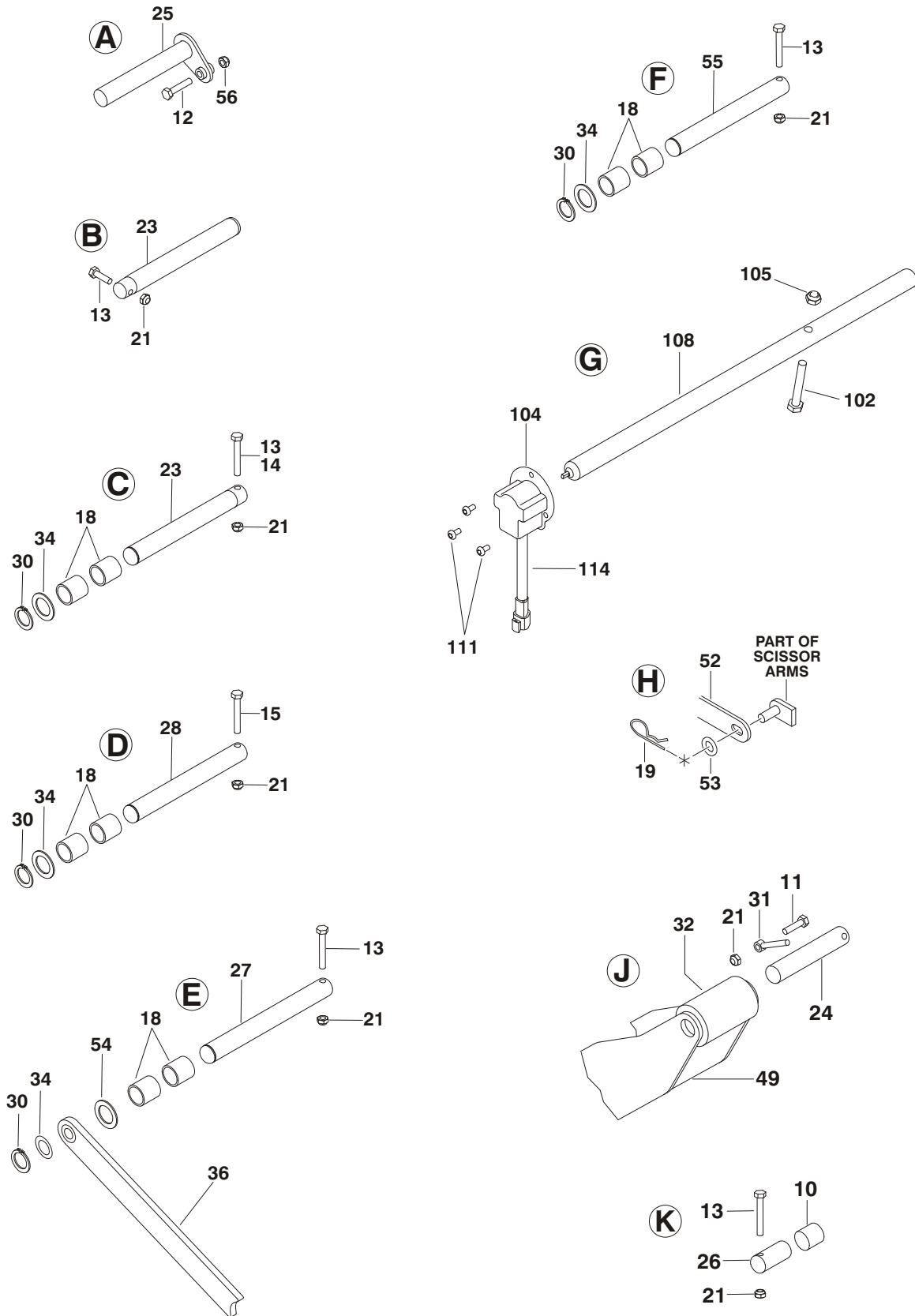
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 3-6.SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151606 TO S/N 0200152825 & BELGIUM BUILT MACHINES BUILT S/N 1200008265 TO S/N 1200008481)



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FIGURE 3-6. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151606 TO S/N 0200152825 & BELGIUM BUILT MACHINES BUILT S/N 1200008265 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	SCISSOR ARMS ASSEMBLIES - 2646ES/3246ES	
	0274878	Ref.	2646ES with Standard Hydraulic Oil	B
	0200841	Ref.	2646ES with Biodegradeable Hydraulic Oil	A
	0274880	Ref.	3246ES with Standard Hydraulic Oil	B
	0200842	Ref.	3246ES with Biodegradeable Hydraulic Oil	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		1	Lift Cylinder Assembly Options (See Section 5 for Breakdown):	
	1684489		2646ES with Standard Hydraulic Oil	
	1684529		2646ES with Biodegradeable Hydraulic Oil	
	1684490		3246ES with Standard Hydraulic Oil	
	1684530		3246ES with Biodegradeable Hydraulic Oil	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3420156	4	Pin, Cotter	
20	Not Used			
21	3291005	24	Locknut M10	
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	
29	Not Used			
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller	
33	Not Used			
34	4740438	20	Washer, Special	
35	Not Used			
36	3574161	1	Prop, Safety	
37 to 48	Not Used			

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FIGURE 3-6. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151606 TO S/N 0200152825 & BELGIUM BUILT MACHINES BUILT S/N 1200008265 TO S/N 1200008481) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
49	4846684	1	Kicker, Arm	
50	Not Used			
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Flatwasher M10	
54	4071094	A/R	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	1	Locknut M10	

	2902475	1	Scissor Arm Kit - 2646ES/3246ES (Includes Items 1-10,17,18,36, 49,51 & 52)	C
		Ref.	SCISSOR ARMS INSTALLATIONS - 2646ES/3246ES	
	0274879	Ref.	2646ES with Standard Hydraulic Oil	B
	0275695	Ref.	2646ES with Biodegradeable Hydraulic Oil	A
	0274881	Ref.	3246ES with Standard Hydraulic Oil	B
	0275696	Ref.	3246ES with Biodegradeable Hydraulic Oil	A
101	Not Used			
102	0701022	2	Bolt M10 x 70mm	
103	Not Used			
104	3200454	1	Mount, Switch	
105	3291005	2	Locknut M10	
106	Not Used			
107	3340957	2	Pad, Slide	
108	3423255	1	Pin, Sensor	
109 to 110	Not Used			
111	4191706	3	Screw M6 x 12mm	
112 to 113	Not Used			
114	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
115	1061034	1	Cable, Manual Descent (Not Shown)	
	7020218	1	T-Handle (with 1/4"-20 Threads)	
	70001878	1	T-Handle (with 5mm Threads)	
116	3321402	1	Nut, Jam 1/4"-28NF (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	2	Tape, Anti-Skid	

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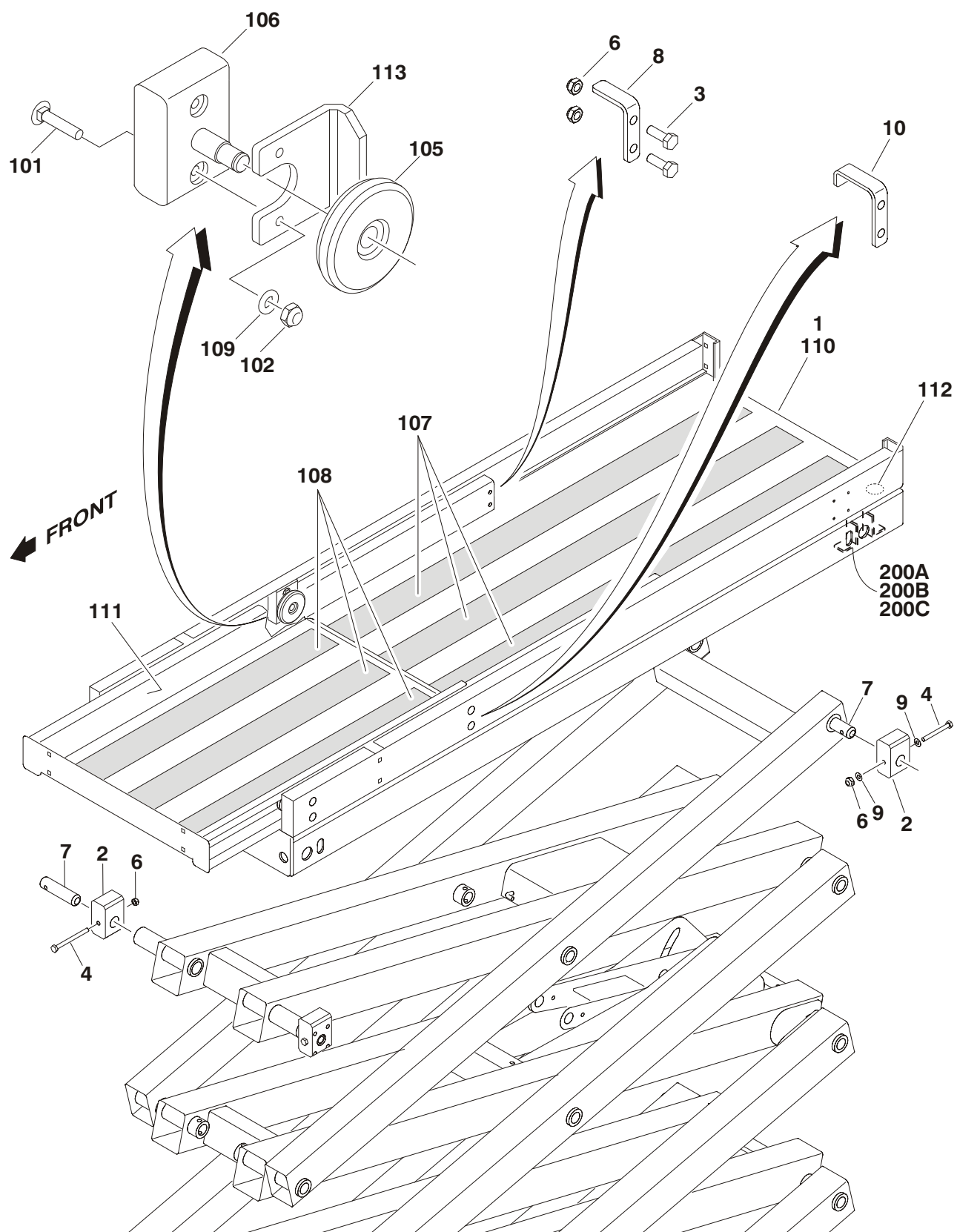
FIGURE 3-6. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151606 TO S/N 0200152825 & BELGIUM BUILT MACHINES BUILT S/N 1200008265 TO S/N 1200008481) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-1. PLATFORM INSTALLATION



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FIGURE 4-1. PLATFORM INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
1		Ref.	PLATFORM INSTALLATIONS	
		Ref.	All Specs Except CE & Japanese Specs	
	0272633	Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882 (Original Equipment)	F
	0274817	Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (Original Equipment)	E
	1001134933	Ref.	1930ES (Service Replacement)	A
	0272666	Ref.	2030ES/2630ES	F
	0272698	Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	G
	0274930	Ref.	2646ES/3246ES USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	B
		Ref.	CE & Japanese Specs Only	
	0272836	Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	M
	0275029	Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	F
	0272837	Ref.	2030ES/2630ES	N
	0272838	Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	N
	0274931	Ref.	2646ES/3246ES USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	B
		Ref.	Note: All versions are available on ANSI Export Spec.	
	1	1	Platform Assembly (See Items 101-113 for Breakdown):	
	Use 1001134934		1930ES (Service Replacement) (Original Equipment was p/n 0272637 for USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882 or 0274818 for USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481)	
	0272661		2030ES/2630ES	
	0272696		2646ES/3246ES	
	0274929		USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265 USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	
2		A/R	Block, Slide Options:	
	3340976	2	1930ES (Front Block)	
	3340965	2	1930ES (Rear Block)	
	1001134951	2	1930ES (Spacer Sleeve Used with Rear Block) (Service Replacement Platforms Only)	
	0561520	4	2030ES/2630ES/2646ES/3246ES	

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FIGURE 4-1. PLATFORM INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
3	3900351	4	Bolt M10 x 30mm	
4		A/R	Bolt M10 Options:	
	0701022	2	70mm Length (Front Slide Block - 1930ES)	
	0701027	2	100mm Length (Rear Slide Block - 1930ES) (was p/n 0701026 - 90mm Length)	
	0701029	2	120mm Length (Rear Slide Block - 1930ES) (Service Replacement Platform Only)	
	0701024	2	80mm Length (Front Slide Block - 2030ES/2630ES/2646ES/3246ES)	
	0701027	2	100mm Length (Rear Slide Block - 2030ES/2630ES/2646ES/3246ES)	
5	Not Used			
6	3291005	8	Locknut M10	
7		4	Pin Options:	
	3423049		All Machines except CE & Japanese Specs	
	See Note		CE & Japanese Spec Machines (Note: Refer to JLG Supplement p/n 3124288)	
8	3574067	2	Plate, Extension Stop	
9	4812000	4	Flatwasher M10	
10		A/R	Bracket, Platform Containment Options:	
	0903579	2	Bracket (Standard on 2646ES/3246ES - USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265 Only)	
	9984279	1	Service Kit to Install Bracket (Includes qty 2 p/n 0903579 Brackets & Instructions) (Suggested installation on ALL ES models if not currently equipped)	
		Ref.	PLATFORM ASSEMBLY	
	Use 1001134934	Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882 (Original Equipment was p/n 0272637)	F
	Use 1001134934	Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (Original Equipment was p/n 0274818)	B
	1001134934	Ref.	1930ES (Service Replacement)	A
	0272661	Ref.	2030ES/2630ES	F
	0272696	Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	G
	0274929	Ref.	2646ES/3246ES USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	A
101	0630565	8	Bolt, Carriage M10 x 50mm	
102	3291005	8	Locknut M10	
103 to 104	Not Used			
105	3860118	4	Roller	
106	4340914	4	Mount	
107		A/R	Tape, Anti-Skid Options:	
	4420071	3	1930ES	
	4420075	3	2030ES/2630ES	
	4420073	5	2646ES/3246ES	

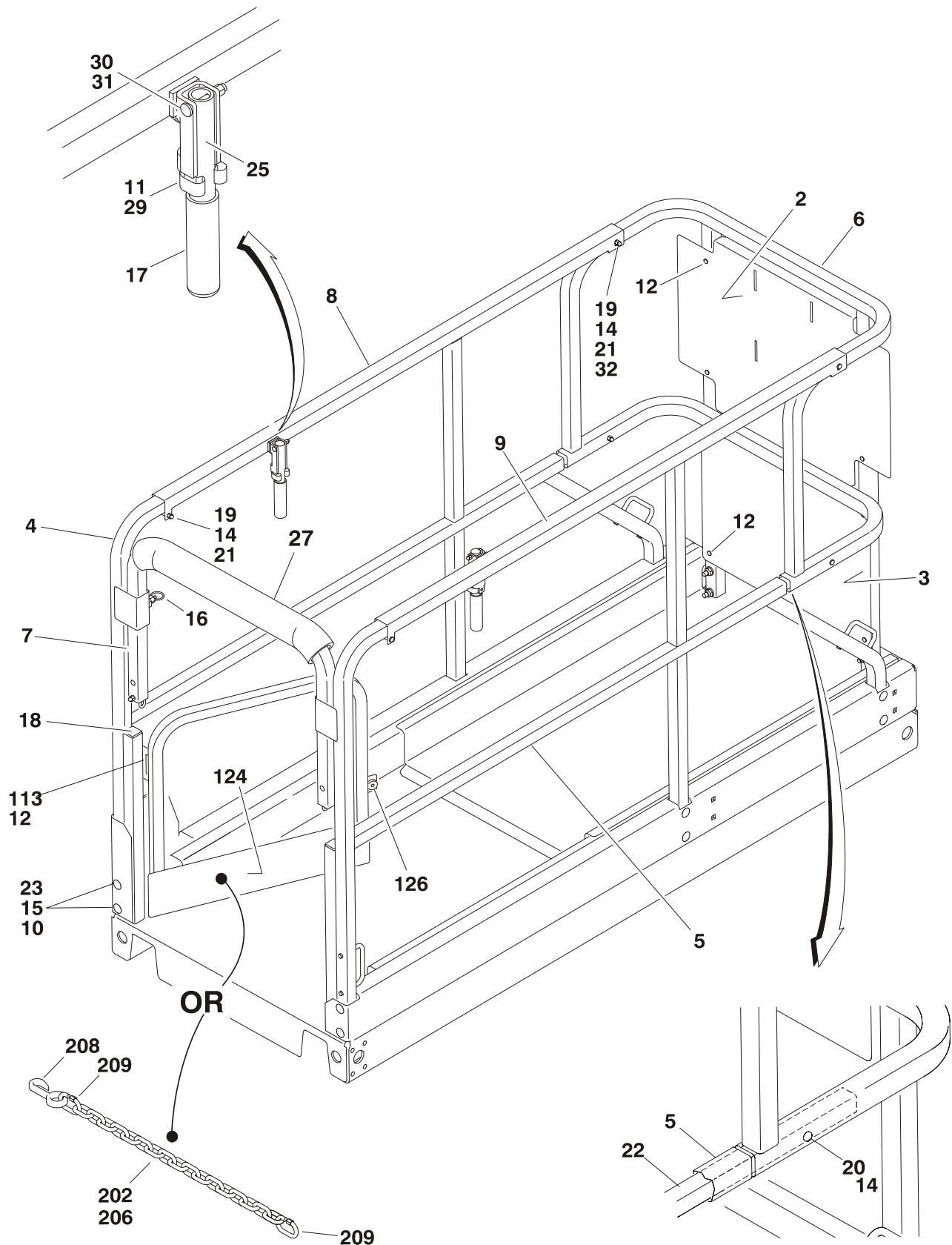
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FIGURE 4-1. PLATFORM INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
108		A/R	Tape, Anti-Skid Options:	
	4420072	3	1930ES/2030ES/2630ES	
	4420074	5	2646ES/3246ES	
109	4812000	8	Flatwasher M10	
110		1	Platform Weldment Options:	
	Use 1001134935		1930ES (Service Replacement)	
			USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882 (Original Equipment was p/n 4846766)	
			USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (Original Equipment was p/n 3510888)	
	4846789		2030ES/2630ES	
			2646ES/3246ES	
	4846761		USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	3510890		USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	
111		1	Extension Weldment Options:	
	4846768		1930ES/2030ES/2630ES	
	4846764		2646ES/3246ES	
112	2540045	1	Grommet	
113	0903574	1	Bracket, Stop (Use with p/n 0274818 & p/n 1001134934 Platform Assemblies Only)	
		Ref.	SLIDE BLOCK MOUNT REPAIR KITS	
200		A/R	Fixed Mount Repair Kit (Kit includes components & instructions to repair weld cracks in fixed mounting block supports on aluminum platforms)	
200A	2915241	1	1930ES Fixed Mount Repair Kit	
200B	2915240	1	2030ES/2630ES Fixed Mount Repair Kit	
200C	2915241	1	2646ES/3246ES Fixed Mount Repair Kit	

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FIGURE 4-2.RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)



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FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 1930ES	
	0272611	Ref.	Rails with Gate Closure	J
	0272910	Ref.	Rails with Chain Closure	G
1	Not Used			
2	3574183	1	Plate, Billboard (Upper)	
3	3574184	1	Plate, Billboard (Lower)	
4	3641480	1	Rail, Side (Left)	
5	3641481	1	Rail, Side (Right)	
6	3641482	1	Rail, Extension Platform (Front)	
7	4568645	1	Rail (Rear)	
8	4846784	1	Rail, Slide (Left)	
9	4846785	1	Rail, Slide (Right)	
10	0630565	16	Bolt, Carriage M10 x 55mm	
11	1380132	2	Clip, Gripper	
12	2080040	A/R	Fastener, Huck	
13	Not Used			
14	3290606	A/R	Capnut M6	
15	3291005	16	Locknut M10	
16	3423151	2	Pin, Plunger	
17	2560088	2	Cover, Handle	
18	3520072	2	Cap-Plug	
19	3860111	2	Roller	
20	4010616	A/R	Screw M6 x 40mm	
21	4010617	4	Screw M6 x 45mm	
22	3841649	2	Extension, Midrail	
23	4812000	16	Flatwasher M10	
24	Not Used			
25		2	Handle, Extension Options:	
	4846786		USA Built Machines S/N 0200135154 to S/N 0200145594 & Belgium Built Machines S/N 1200008481 to S/N 1200005294	
	2560191		USA Built Machines S/N 0200145594 to S/N 0200150266 & Belgium Built Machines S/N 1200005294 to S/N 1200007882	
26	Not Used			
27	3340612	18in/46cm	Pad, Rail	
28	Not Used			
29	3820019	2	Rivet	
30	3900345	2	Screw M8 x 45mm	
31	3290806	2	Capnut M8	
32	4010618	2	Screw M6 x 50mm (USA Built Machines S/N 0200145594 to S/N 0200150266 & Belgium Built Machines S/N 1200005294 to S/N 1200007882)	

			Rails Kit - 1930ES Options:	
	2902391	1	Rails with Gate Closure - (Includes Items 2-9, 11, 14, 16, 17, 19, 24-25, 27-32 & 124)	F
	2902392	1	Rails with Chain Closure - (Includes Items 2-9, 11, 14, 16, 17, 19, 25, & 27-32)	F

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FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272611	Ref.	GATE CLOSURE COMPONENTS	J
101 to 112	Not Used			
113	2600281	2	Hinge	
114 to 123	Not Used			
124	4846723	1	Gate	
125	Not Used			
126	3080007	1	Magnet, Gate	
	0272910	Ref.	CHAIN CLOSURE COMPONENTS	G
201	Not Used			
202	1260136	2ft/61cm	Chain	
203 to 205	Not Used			
206	2820097	2ft/61cm	Cover, Chain	
207	Not Used			
208	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 209)	
209	3010088	2	Link	

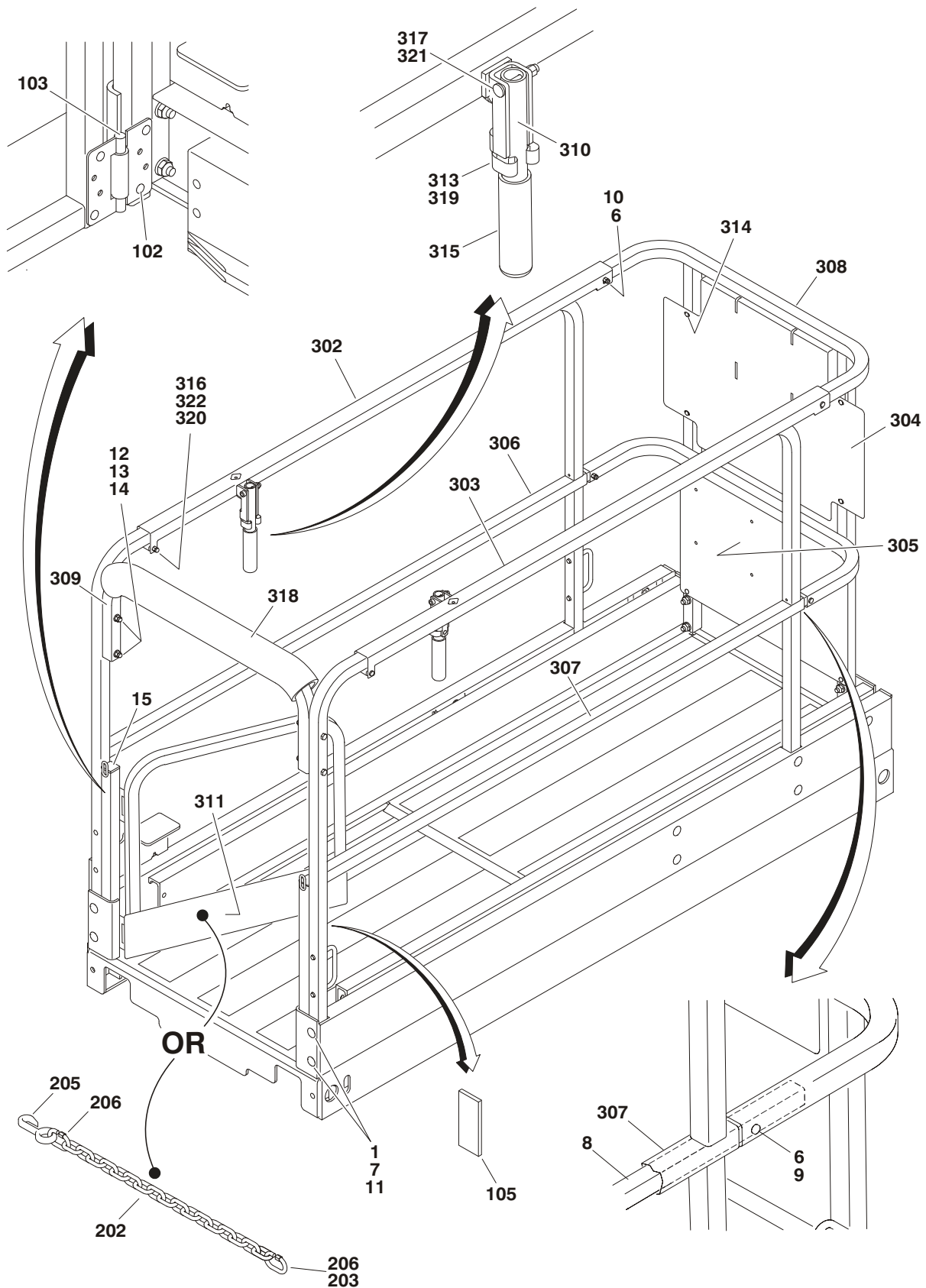
SECTION 4 PLATFORM

FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-3.RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)



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FIGURE 4-3. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 1930ES	
	0274985	Ref.	Rails with Gate Closure	C
	0274816	Ref.	Rails with Chain Closure	D
1	0630565	12	Bolt, Carriage M10 x 55mm	
2 to 3	Not Used			
4		1	Rail Assembly Options (Not Shown - See Items 301-322 for Breakdown):	
	2902448		Rails with Gate Closure	
	2902496		Rails with Chain Closure	
5	Not Used			
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	C
101	Not Used			
102	2080040	8	Fastener, Huck	
103	2600281	2	Hinge	
104	Not Used			
105	3080007	1	Magnet, Gate	
	0274816	Ref.	CHAIN CLOSURE COMPONENTS	D
201	Not Used			
202	1260136	1.75ft/53cm	Chain (was 2ft/61cm)	
203	2820097	1.67ft/51cm	Cover, Chain (was 2ft/61cm)	
204	Not Used			
205	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 206)	
206	3010088	2	Link	
		Ref.	RAIL ASSEMBLY - 1930ES	
	2902496	Ref.	Rails with Gate Closure	M
	2902448	Ref.	Rails with Chain Closure	G
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)	

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FIGURE 4-3. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
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)	
312	Not Used			
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	18in/46cm	Pad, Rail	
319	3820019	2	Rivet	
320	3860111	2	Roller	
321	3900345	2	Screw M8 x 45mm	
322	4010618	2	Screw M6 x 50mm	
	2902449		----- Rails Kit - 1930ES (Includes Items 302-310)	J

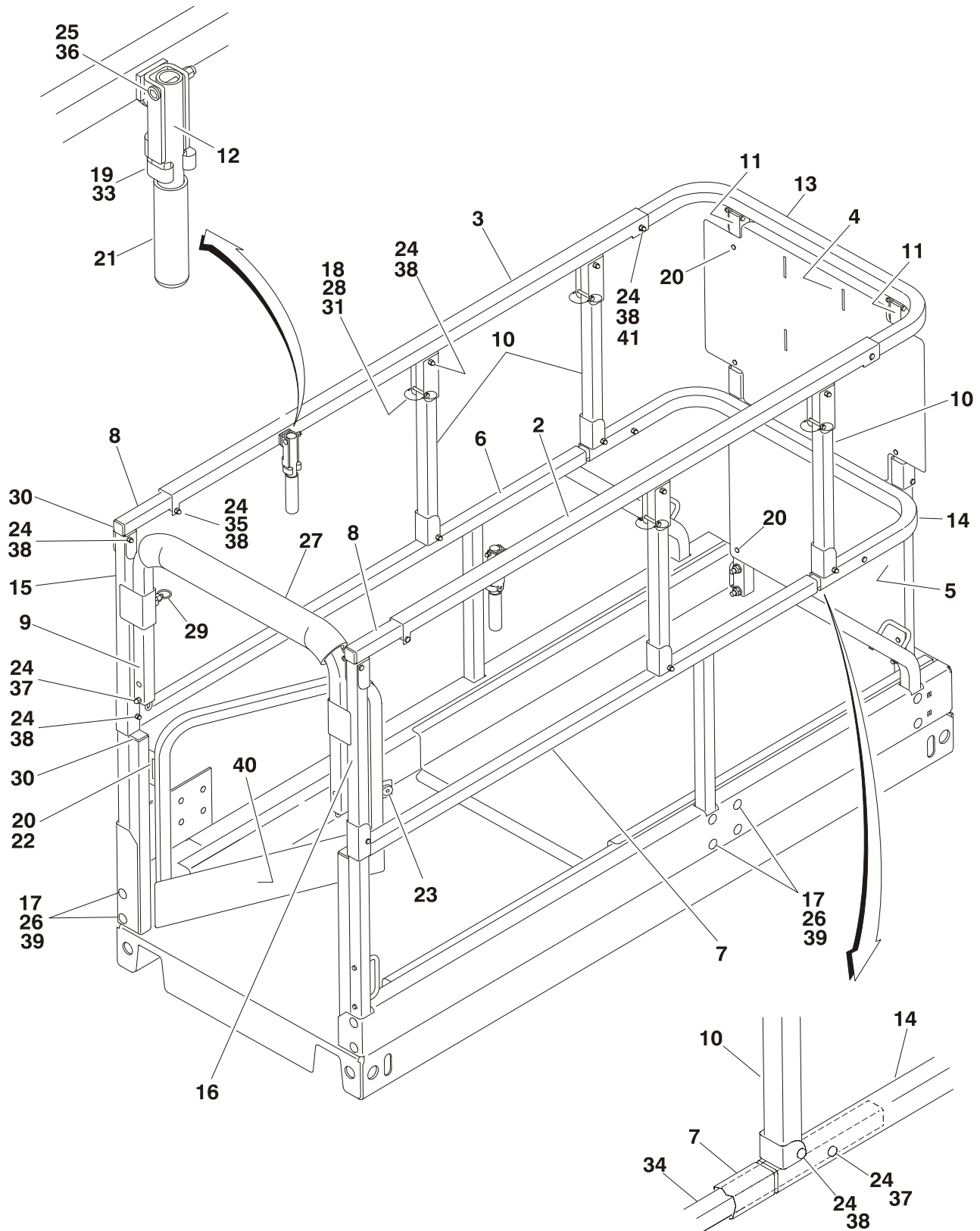
SECTION 4 PLATFORM

FIGURE 4-3. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-4.RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)



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FIGURE 4-4. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 1930ES	
	0273479	Ref.	Rails with Gate Closure	F
1	Not Used			
2	1271571	1	Rail, Slide (Right)	
3	1271572	1	Rail, Slide (Left)	
4	3574183	1	Plate, Billboard (Upper)	
5	3574184	1	Plate, Billboard (Lower)	
6	3641534	1	Rail (Left Lower Side)	
7	3641535	1	Rail (Right Lower Side)	
8	3641536	2	Rail (Both Upper Sides)	
9	4568645	1	Rail (Rear Upper)	
10	4568667	4	Tube, Folding (Side)	
11	4568711	2	Tube, Folding (Front)	
12		2	Handle, Extension Options:	
	4846786		USA Built Machines S/N 0200135154 to S/N 0200145594 & Belgium Built Machines S/N 1200004293 to S/N 1200005294	
	2560191		USA Built Machines S/N 0200145594 to S/N 0200150266 & Belgium Built Machines S/N 1200005294 to S/N 1200007882	
13	4846794	1	Rail (Front Upper)	
14	4846795	1	Rail (Front Mid)	
15	4846796	1	Tube, Folding (Left Rear)	
16	4846797	1	Tube, Folding (Right Rear)	
17	0630565	16	Bolt, Carriage M10 x 55mm	
18	Used Item 28	4	Lanyard (was p/n 1060379)	
19	1380132	2	Clip, Gripper	
20	2080040	16	Fastener, Huck	
21	2560088	2	Cover, Handle	
22	2600281	2	Hinge	
23	3080007	1	Magnet, Gate	
24	3290606	A/R	Capnut M6	
25	3290806	2	Capnut M8	
26	3291005	16	Capnut M10	
27	3340612	18in/46cm	Pad, Rail	
28	Use 3423278	4	Pin & Lanyard Kit (Includes Items 18 & 31) (was p/n 3421453 Pin Only)	
29	3423151	2	Pin, Plunger	
30	3520072	4	Cap-Plug	
31	3760170	4	Ring, Split	
32	Not Used			
33	3820019	2	Rivet	
34	3841649	2	Tube, Slide (Mid)	
35	3860111	2	Roller	
36	3900345	2	Capscrew M8 x 45mm	
37	4010616	A/R	Screw M6 x 40mm	
38	4010617	20	Screw M6 x 45mm	
39	4812000	16	Flatwasher M10	

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FIGURE 4-4. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
40	4846723	1	Gate	F
41	4010618	2	Screw M6 x 50mm (USA Built Machines S/N 0200145594 to S/N 0200150266 & Belgium Built Machines S/N 1200005294 to S/N 1200007882)	
	2902384	1	----- Rails Kit - 1930ES (Includes Items 2-16, 19, 21, 25, 27-29, 32, 33, 35-36, 38 & 40-41)	

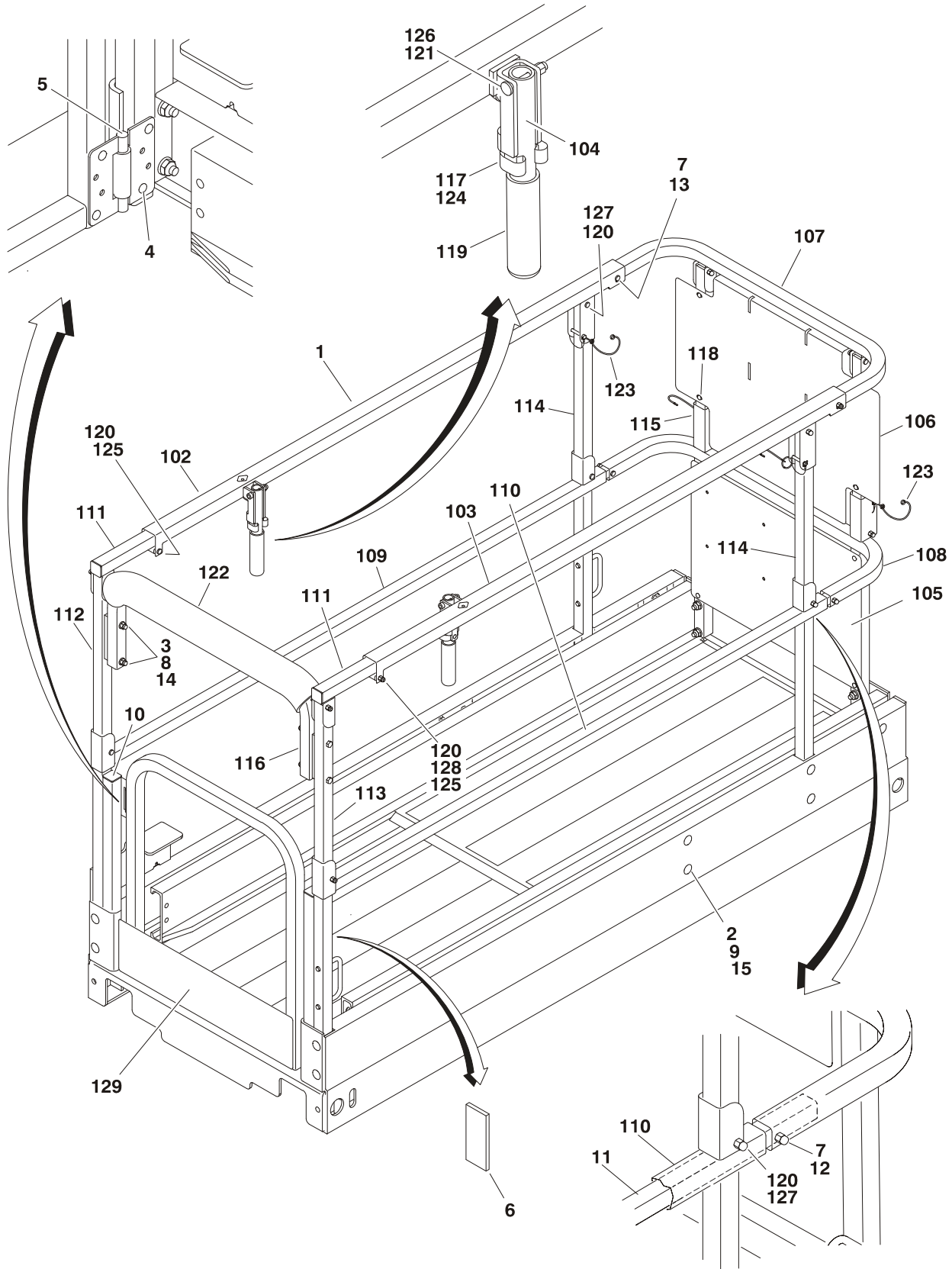
SECTION 4 PLATFORM

FIGURE 4-4. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200150266 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200007882) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-5.RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)



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FIGURE 4-5. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 1930ES	
	0275429	Ref.	Rails with Gate Closure	B
1	2902535	1	Rail Assembly (See Items 101-129 for Breakdown)	
2	0630565	12	Bolt, Carriage M10 x 55mm	
3	0700825	4	Bolt M8 x 85mm	
4	2080040	8	Fastener, Huck	
5	2600281	2	Hinge	
6	3080007	1	Magnet, Gate	
7	3290606	4	Capnut M6	
8	3290806	4	Capnut M8	
9	3291005	12	Capnut M10	
10	3520072	4	Cap-Plug	
11	3841716	2	Tube, Slide (Mid)	
12	4010616	2	Screw M6 x 40mm	
13	4010618	2	Screw M6 x 50mm	
14	4811900	4	Flatwasher M8	
15	4812000	12	Flatwasher M10	
		Ref.	RAIL ASSEMBLY - 1930ES	
	2902535	Ref.	Rails with Gate Closure	G
101	Not Used			
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	18in/46cm	Pad, Rail	
123	3423278	4	Snap Pin/Lanyard Kit	
124	3820019	2	Rivet	
125	3860111	2	Roller	

SECTION 4 PLATFORM

FIGURE 4-5. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
126	3900345	2	Capscrew M8 x 45mm	H
127	4010617	12	Screw M6 x 45mm	
128	4010618	2	Screw M6 x 50mm	
129	4846723	1	Gate	
	2902536		----- Rails Kit - 1930ES (Includes Items 102-116)	

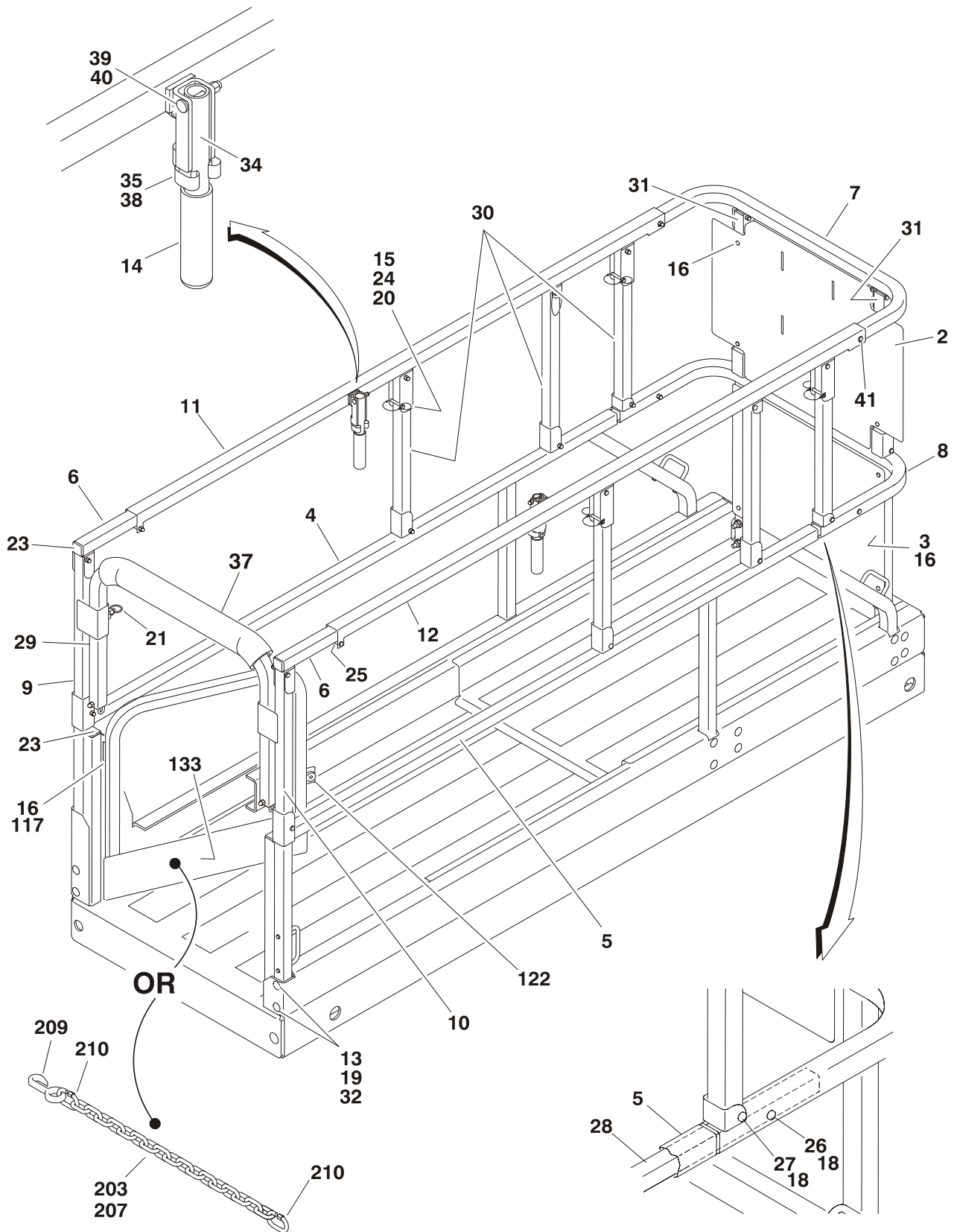
SECTION 4 PLATFORM

FIGURE 4-5. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES S/N 0200150266 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200007882 TO S/N 1200008481) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-6.RAIL INSTALLATION - 2030ES/2630ES



SECTION 4 PLATFORM

FIGURE 4-6. RAIL INSTALLATION - 2030ES/2630ES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 2030ES/2630ES	
	0272667	Ref.	Rails with Gate Closure	J
	0272911	Ref.	Rails with Chain Closure	H
1	Not Used			
2	3574183	1	Plate, Billboard (Upper)	
3	3574184	1	Plate, Billboard (Lower)	
4	4846791	1	Rail, Side (Left)	
5	4846792	1	Rail, Side (Right)	
6	4846793	2	Rail, Platform (Top)	
7	4846794	1	Rail, Extension (Top)	
8	4846795	1	Rail, Extension (Mid)	
9	4846796	1	Rail, Upright (Left Rear)	
10	4846797	1	Rail, Upright (Right Rear)	
11	4846799	1	Rail, Slide (Left)	
12	4846800	1	Rail, Slide (Right)	
13	0630565	16	Bolt, Carriage M10 x 55mm	
14	2560088		Handle	
15	Use 3423278	1	Lanyard (was p/n 1060379)	
16	2080040	A/R	Fastener, Huck	
17	Not Used			
18	3290606	A/R	Capnut M6	
19	3291005	16	Locknut M10	
20	3423278	4	Snap Pin/Lanyard Kit (was p/n 3421453 Snap Pin)	
21	3423151	2	Pin, Plunger	
22	Not Used			
23	3520072	4	Cap-Plug	
24	3760170	4	Ring, Split	
25	3860085	2	Roller	
26	4010616	A/R	Screw M6 x 40mm	
27	4010617	24	Screw M6 x 45mm	
28	3841649	2	Extension, Midrail	
29	4568645	1	Rail (Rear)	
30	4568667	6	Tube, Folding Post (Platform)	
31	4568711	2	Tube, Folding Post (Extension)	
32	4812000	16	Flatwasher M10	
33	Not Used			
34		2	Handle, Extension Options:	
	4846786		USA Built Machines S/N 0200135154 to S/N 0200145594 & Belgium Built Machines S/N 1200004293 to S/N 1200005294	
	2560191		USA Built Machines S/N 0200145594 to S/N 0200152825 & Belgium Built Machines S/N 1200005294 to S/N 1200008481	
35	1380132	2	Clip, Gripper	
36	Not Used			
37	3340612	18in/46cm	Pad, Rail	
38	3820019	2	Rivet	
39	3900345	2	Screw M8 x 45mm	
40	3290806	2	Capnut M8	

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FIGURE 4-6. RAIL INSTALLATION - 2030ES/2630ES (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
41	4010618	2	Screw M6 x 50mm (USA Built Machines S/N 0200145594 to S/N 0200152825 & Belgium Built Machines S/N 1200005294 to S/N 1200008481)	

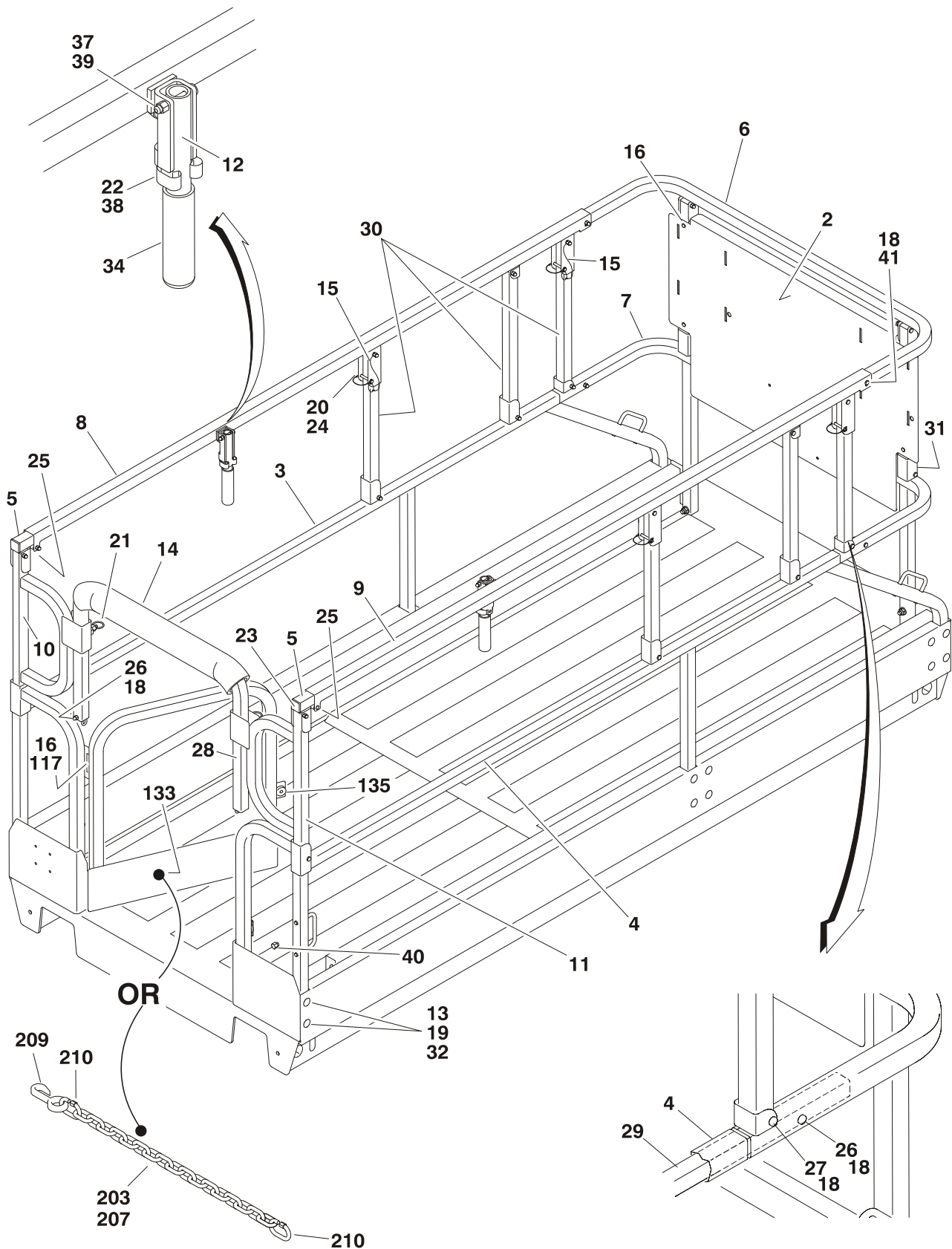
			Rails Kit - 2030ES/2630ES Options:	
	2902376	1	Rails with Gate Closure (Includes Items 2-12, 14-15, 20-21, 24-25, 27, 29-31, 33-41 & 133)	H
	2902382	1	Rails with Chain Closure (Includes Items 2-12, 14-15, 20-21, 24-25, 27, 29-31 & 33-41)	H
	0272667	Ref.	GATE CLOSURE COMPONENTS	J
101 to 116	Not Used			
117	2600281	2	Hinge	
118 to 121	Not Used			
122	3080007	1	Magnet, Gate	
123 to 132	Not Used			
133	4846723	1	Gate	
	0272911	Ref.	CHAIN CLOSURE COMPONENTS	H
201 to 202	Not Used			
203	1260136	2ft/61cm	Chain	
204 to 206	Not Used			
207	2820097	2ft/61cm	Cover, Chain	
208	Not Used			
209	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 210)	
210	3010088	2	Link	

FIGURE 4-6. RAIL INSTALLATION - 2030ES/2630ES (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-7. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151585 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200008265)



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FIGURE 4-7. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151585 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200008265)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 2646ES/32646ES	
	0272697	Ref.	Gate Entry	K
	0272912	Ref.	Chain Entry	I
1	Not Used			
2	3574150	1	Plate, Billboard	
3	3641582	1	Rail, Side (Left)	
4	4846771	1	Rail, Side (Right)	
5	4846772	2	Rail, Platform (Top)	
6	4846776	1	Rail, Extension (Top)	
7	4846777	1	Rail, Extension (Mid)	
8	4846778	1	Rail, Slide (Left)	
9	4846779	1	Rail, Slide (Right)	
10	4846780	1	Rail, Upright (Left Rear)	
11	4846781	1	Rail, Upright (Right Rear)	
12		2	Handle, Extension Options:	
	4846786		USA Built Machines S/N 0200135154 to S/N 0200145594 & Belgium Built Machines S/N 1200004293 to S/N 1200005294	
	2560191		USA Built Machines S/N 0200145594 to S/N 0200151585 & Belgium Built Machines S/N 1200005294 to S/N 1200008265	
13	0630565	18	Bolt, Carriage M10 x 55mm	
14	3340612	18in/46cm	Pad, Cover	
15	Use Item 20	4	Lanyard (was p/n 1060379)	
16	2080040	A/R	Fastener, Huck	
		12	Gate Entry	
		4	Chain Entry	
17	Not Used			
18	3290606	A/R	Capnut M6	
19	3291005	18	Locknut M10	
20	Use 3423278	4	Snap Pin/Lanyard Kit (was p/n 3421453 Snap Pin)	
21	3423151	2	Pin, Plunger	
22	1380132	2	Clip, Gripper	
23	3520072	2	Cap-Plug	
24	3760170	4	Ring, Split	
25	3860111	2	Roller	
26	4010616	A/R	Screw M6 x 40mm	
27	4010617	24	Screw M6 x 45mm	
28	4568645	1	Rail (Rear)	
29	3841648	2	Extension, Midrail	
30	4568667	6	Tube, Folding Post (Platform)	
31	4568711	2	Tube, Folding Post (Extension)	
32	4812000	18	Flatwasher M10	
33	Not Used			
34	2560088	2	Grip, Handle	
35 to 36	Not Used			
37	3290806	2	Capnut M8	
38	3820019	2	Rivet	
39	3900345	2	Screw M8 x 45	

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FIGURE 4-7. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151585 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200008265)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
40	3300477	2	Nut, Acorn	
41	4010618	2	Screw M6 x 50mm (USA Built Machines S/N 0200145594 to S/N 0200151585 & Belgium Built Machines S/N 1200005294 to S/N 1200008265)	

			Rails Kit - 2646ES/3246ES Options:	
	2902381	1	Rails with Gate Closure (Includes Items 2-12, 14-15, 20-22, 24-25, 27-28, 30-31, 33-34, 36-39, 41 & 133)	H
	2902383	1	Rails with Chain Closure (Includes Items 2-12, 14-15, 20-22, 24-25, 27-28, 30-31, 33-34, 36-39 & 41)	H
	0272697	Ref.	GATE ENTRY INSTALLATION	K
101 to 116	Not Used			
117	2600281	2	Hinge	
118 to 132	Not Used			
133	4846723	1	Gate	
134	Not Used			
135	3080007	1	Magnet, Gate	
	0272912	Ref.	CHAIN ENTRY INSTALLATION	I
201 to 202	Not Used			
203	1260136	2ft/61m	Chain	
204 to 206	Not Used			
207	2820097	2ft/61m	Cover, Chain	
208	Not Used			
209	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 210)	
210	3010088	2	Link, Repair	

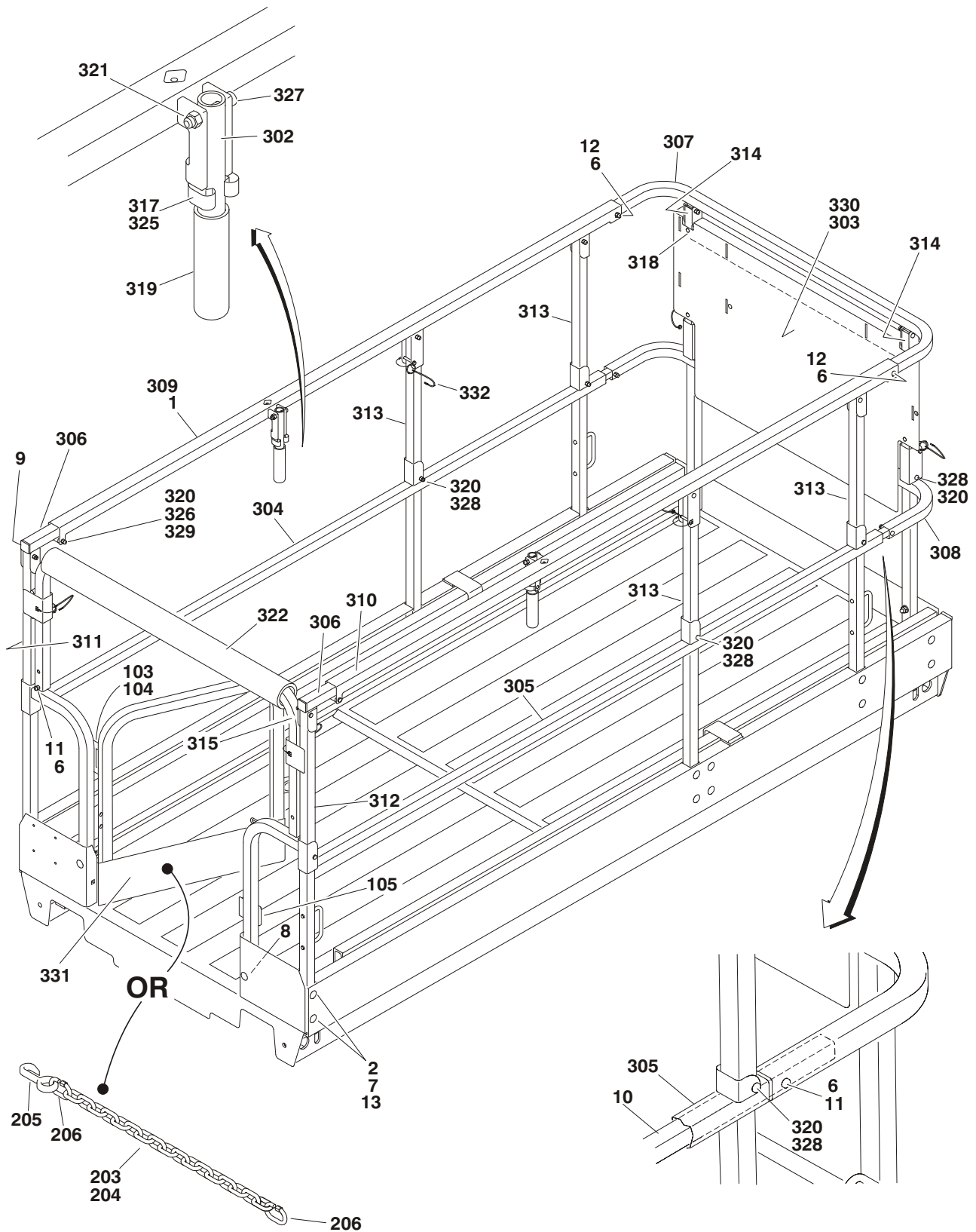
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FIGURE 4-7. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200135154 TO S/N 0200151585 & BELGIUM BUILT MACHINES S/N 1200004293 TO S/N 1200008265)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-8.RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151585 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200008265 TO S/N 1200008481)



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FIGURE 4-8. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151585 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200008265 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	RAIL INSTALLATION - 2646ES/32646ES	
	0274932	Ref.	Rails with Gate Closure	A
	0274933	Ref.	Rails with Chain Closure	C
1		1	Rail Assembly Options (See Items 301-332 for Breakdown):	
	2902490		Rails with Gate Closure	
	2902491		Rails with Chain Closure	
2	0630565	18	Bolt, Carriage M10 x 55mm	
3 to 5	Not Used			
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	A
101 to 102	Not Used			
103	2080040	8	Fastener, Huck	
104	2600281	2	Hinge	
105	3080007	1	Magnet, Gate	
	0274933	Ref.	CHAIN CLOSURE COMPONENTS	C
201 to 202	Not Used			
203	1260136	1.75ft/53cm	Chain (was 2ft/61cm)	
204	2820097	1.67ft/51cm	Cover, Chain (was 2ft/61cm)	
205	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 206)	
206	3010088	2	Link	
		Ref.	RAIL ASSEMBLY - 2030ES/2630ES	
	2902490	Ref.	Rail Kit with Gate Closure	J
	2902491	Ref.	Rail Kit with Chain Closure	J
301	Not Used			
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)	

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FIGURE 4-8. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151585 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200008265 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
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)	
316	Not Used			
317	1380132	2	Clip, Gripper	
318	2080040	6	Fastener, Huck	
319	2560088	2	Handle	
320	3290606	18	Capnut M6	
321	3290806	2	Capnut M8	
322	3340612	18in/46cm	Pad, Rail	
323 to 324	Not Used			
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	A/R	Tape, Insulation	
331	4846723	1	Gate (2902490 Assembly Only)	
332	3423278	4	Snap Pin/Lanyard Kit	
	2902489		----- Rails Kit - 2646ES/3246ES (Includes Items 302-315)	O

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FIGURE 4-8. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES S/N 0200151585 TO S/N 0200152825 & BELGIUM BUILT MACHINES S/N 1200008265 TO S/N 1200008481)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-9.PLATFORM CONSOLE BOX INSTALLATION

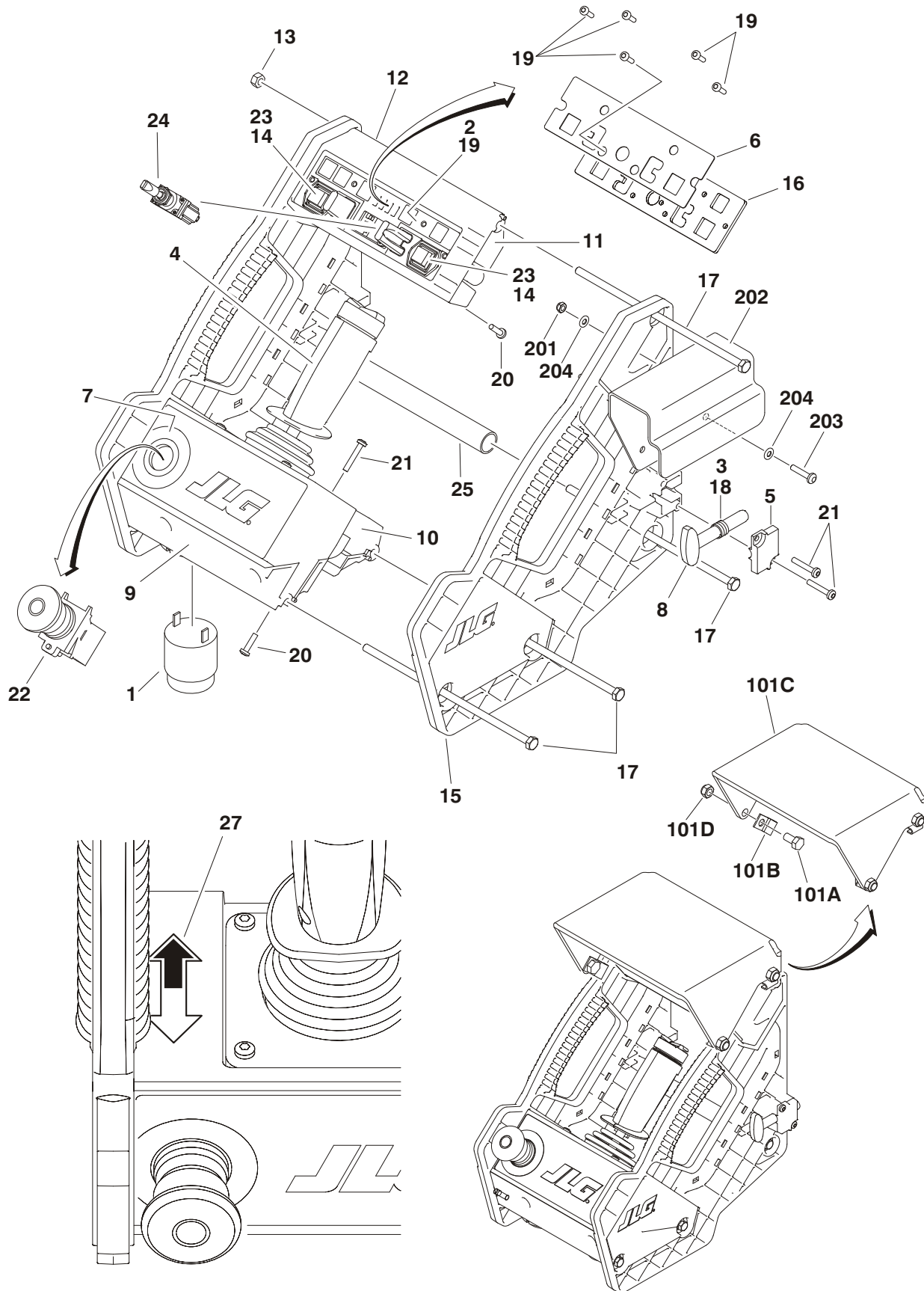


FIGURE 4-9. PLATFORM CONSOLE BOX INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	CONSOLE BOX ASSEMBLY	
	0272778	Ref.	All Specs except CE Spec (See Note)	I
	0272779	Ref.	CE Spec (See Note)	I
		Ref.	Note: When replacing complete assembly, use p/n 1001091153 for All Specs except CE Spec Machines. Use p/n 1001091154 for CE Specs Machines.	
1	0140011	1	Alarm	
2	Kit 3		Platform Box Control Module (was p/n 0610162 & 1600439)	
3	1380156	1	E-Clip	
4	Use 1001134438	1	Drive/Steer Controller Assembly (Original Equipment was p/n 1600345 - See Figure 4-10 for Breakdown) (For Service Replacement Components p/n 1600402 & 1001134438 - See Figure 4-11 for Breakdown)	
5	1671098	1	Latch	
6		1	Decal - Icon Options:	
	1705674		All Specs except CE Spec	
	1705675		CE Spec	
7	1705676	1	Decal - Emergency Stop Ring	
8	2560179	1	Handle, Latch	
9	Use 1001091390	1	Housing, Joystick (Lower) (was p/n 2760113)	
10	Use 1001091390	1	Mount, Joystick (was p/n 2760114)	
11	Use 1001091279	1	Housing, Module Mounting (Lower) (was p/n 2760115)	
12	Kit 2 or 3	1	Housing, Module Mounting (Upper) (was p/n 2760116)	
13	3300473	4	Nut M6	
14	3340968	2	Button (Includes Black Button Only)	
15	3380475	2	Panel, Side	
16	Kit 1, 2 or 3	1	Plate, Decal (was p/n 3574249)	
17	3900333	4	Screw M6 x 190mm	
18	4160203	1	Spring, Compression	
19	4191306	11	Screw M3.5 x 12mm	
20	4191407	8	Screw M4 x 16mm	
21	4191409	6	Screw M4 x 25mm	
22	4360475	1	Switch, Emergency Stop	
	7020175	1	Cap	
	7020176	1	Block, Contact	
23	4360538	2	Strip, Switch & Membrane	
24	4360539	1	Switch, Toggle	
25	4568738	1	Tube, Spacer	
26	4922870	1	Harness, Platform Box (Not Shown - See Section 7 for Breakdown)	
27	1703819	1	Decal - Directional Arrow -----	

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FIGURE 4-9. PLATFORM CONSOLE BOX INSTALLATION (CONTINUED)

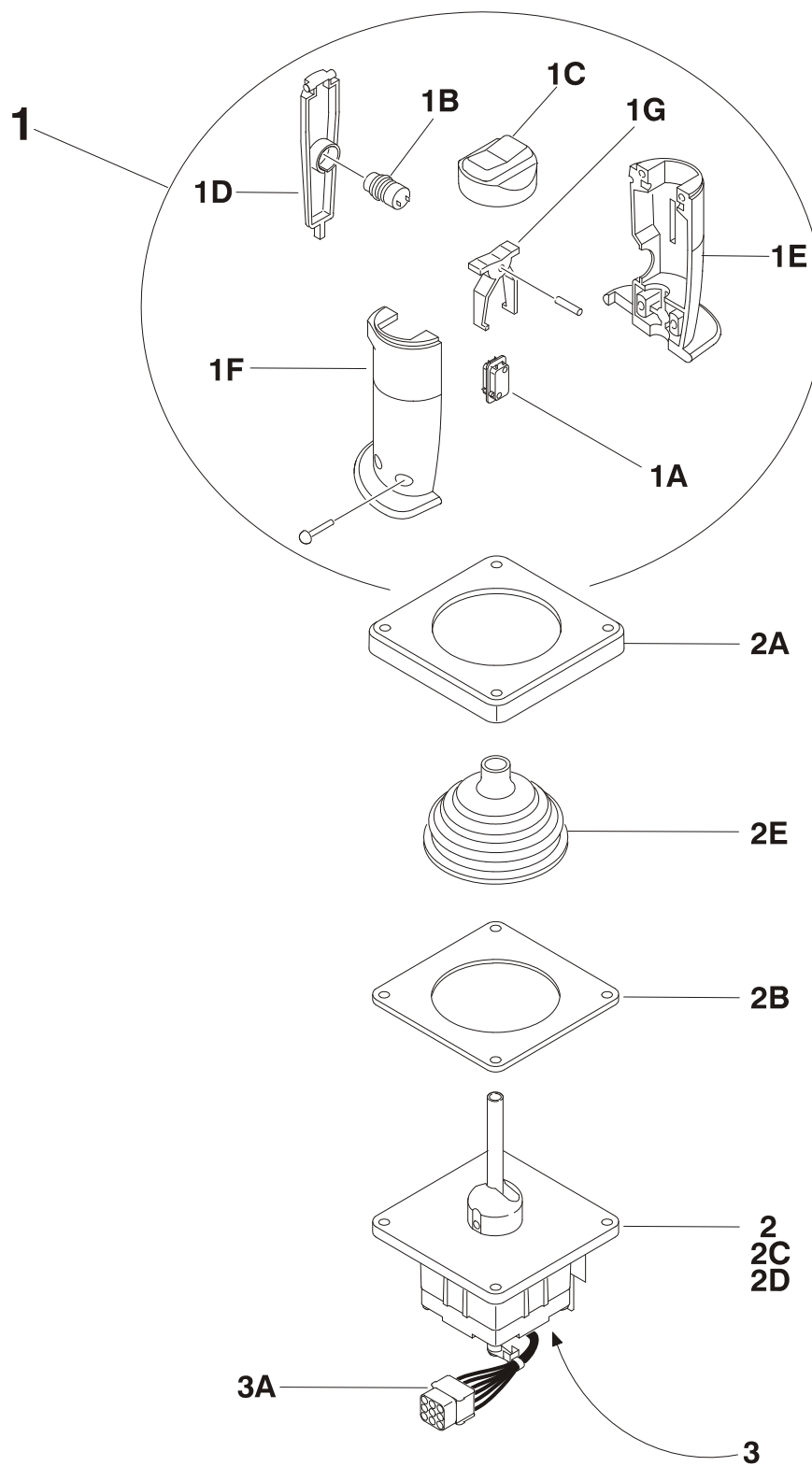
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001091967	1	Kit Options: Kit 1- Decal Kit for USA Built Machines Prior to S/N 0200163756 & Belgium Built Machines Prior to S/N 1200011998 (Includes Items 6, 16 & 19) Note: Two Item 6's are included in the kit - 1 for All Specs Except CE and 1 for CE Specs. Use decal required for applicable spec. Dispose of the decal not used. Note: If Housing has been replaced with Kit 1001091393 or Kit 1001091965, use Decal Kit p/n 1001091968	A
	1001091393	1	Kit 2 - Decal & Housing Kit (Includes Items 6, 12, 16 & 19) Note: Two Item 6's are included in the kit - 1 for All Specs Except CE and 1 for CE Specs. Use decal required for applicable spec. Dispose of the decal not used.	A
	1001091965	1	Kit 3 - Decal, Housing & PC Board Kit (Includes Items 2, 6, 12, 16, 19 & 19) Note: Two Item 6's are included in the kit - 1 for All Specs Except CE and 1 for CE Specs. Use decal required for applicable spec. Dispose of the decal not used.	A
	0272878	Ref.	ANTI-VANDELISM PACKAGE INSTALLATION (NOT SHOWN)	A
	1671131	1	Cover, Lockable Platform Console Box	
	Use 1001118216	Ref.	PLATFORM BOX COVER INSTALLATION (WAS P/N 0273841)	A/C
101	Use 1001118215		Kit, Platform Box Shield (was p/n 2902341)	
101A	0760808	4	Bolt M8 x 16mm	
101B	1380159	4	Clip, Cover Mounting	
101C	Use 1001116154	1	Cover, Platform Box (was p/n 1671161)	
101D	3290805	4	Locknut M8	
	0274386	Ref.	PLATFORM BOX HANGER INSTALLATION (OPTIONAL)	B
201	3290405	2	Locknut M4	
202	3575794	1	Plate, Bracket	
203	3900338	2	Screw M4 x 20mm	
204	4811400	4	Flatwasher M4	

FIGURE 4-9. PLATFORM CONSOLE BOX INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 4-10. DRIVE/STEER CONTROLLER ASSEMBLY (ORIGINAL EQUIPMENT)



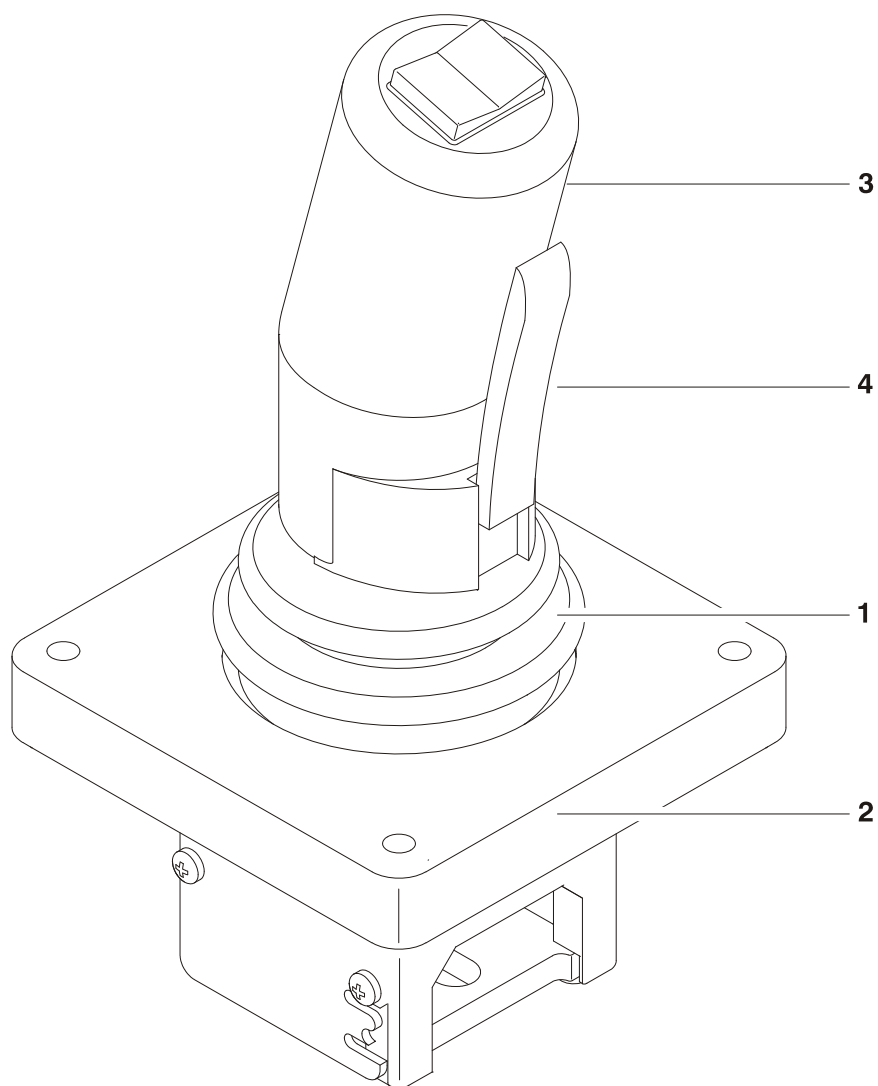
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FIGURE 4-10. DRIVE/STEER CONTROLLER ASSEMBLY (ORIGINAL EQUIPMENT)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	See Note	Ref.	CONTROLLER ASSEMBLY	A
		Ref.	Note: Original Equipment controller p/n 1600345 may have been replaced with Service Replacement controller p/n 1001134438. Visually identify controller before ordering parts.	
1	7020551	1	Grip Assembly	
1A	7020500	2	Switch, Steer Rocker	
1B	7020501	1	Switch, Enable Push Button	
1C	7003790	1	Cap, Rubber Rocker (Includes Lock Ring)	
1D	7011997	1	Trigger	
1E	Not Available	1	Grip - Right Half	
1F	Not Available	1	Grip - Left Half	
1G	Not Available	1	Actuator, Switch	
2	Not Available	1	Handle/Housing Assembly	
2A	7020552	1	Bezel	
2B	7020553	1	Gasket	
2C	7020554	1	Spring, Centering	
2D	7020555	1	Foot, Centering	
2E	7020556	1	Boot, Rubber	
3	Not Available	1	Electrical Assembly (Not Shown)	
3A	4460266	1	Connector, Receptacle - 9 Pin	
	4460226	7	Socket, Female	
	4460265	1	Plug, Male-9 Position (Part of Platform Box Harness)	
	4460227	7	Pin, Male (Part of Platform Box Harness)	

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FIGURE 4-11. DRIVE/STEER CONTROLLER ASSEMBLY (SERVICE REPLACEMENT)



SECTION 4 PLATFORM

FIGURE 4-11. DRIVE/STEER CONTROLLER ASSEMBLY (SERVICE REPLACEMENT)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	See Note	1 Ref.	DRIVE/STEER CONTROLLER ASSEMBLY Note: Use p/n 1001134438 as replacement (was p/n 1600402). Original Equipment was p/n 1600345.	A
1	70001250	1	Boot, Panel	
2	70001252	1	Gasket, Mounting	
	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.)	
	70000084	1	Cap, Rubber	
	70000082	1	Microswitch	
	7027766	1	Ring, Retaining	
	7027365	1	Actuator, Handle	
	70001253	1	Gasket, Handle	
	70000683	4	Washer, Neoprene	
	70000685	2	Spacer, Plastic	
	70000686	2	Screw (Top)	
	70000684	2	Screw (Bottom)	
4	7027367	1	Switch, Push Button	
	7027765	1	Lever, Enable	

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FIGURE 4-11. DRIVE/STEER CONTROLLER ASSEMBLY (SERVICE REPLACEMENT)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

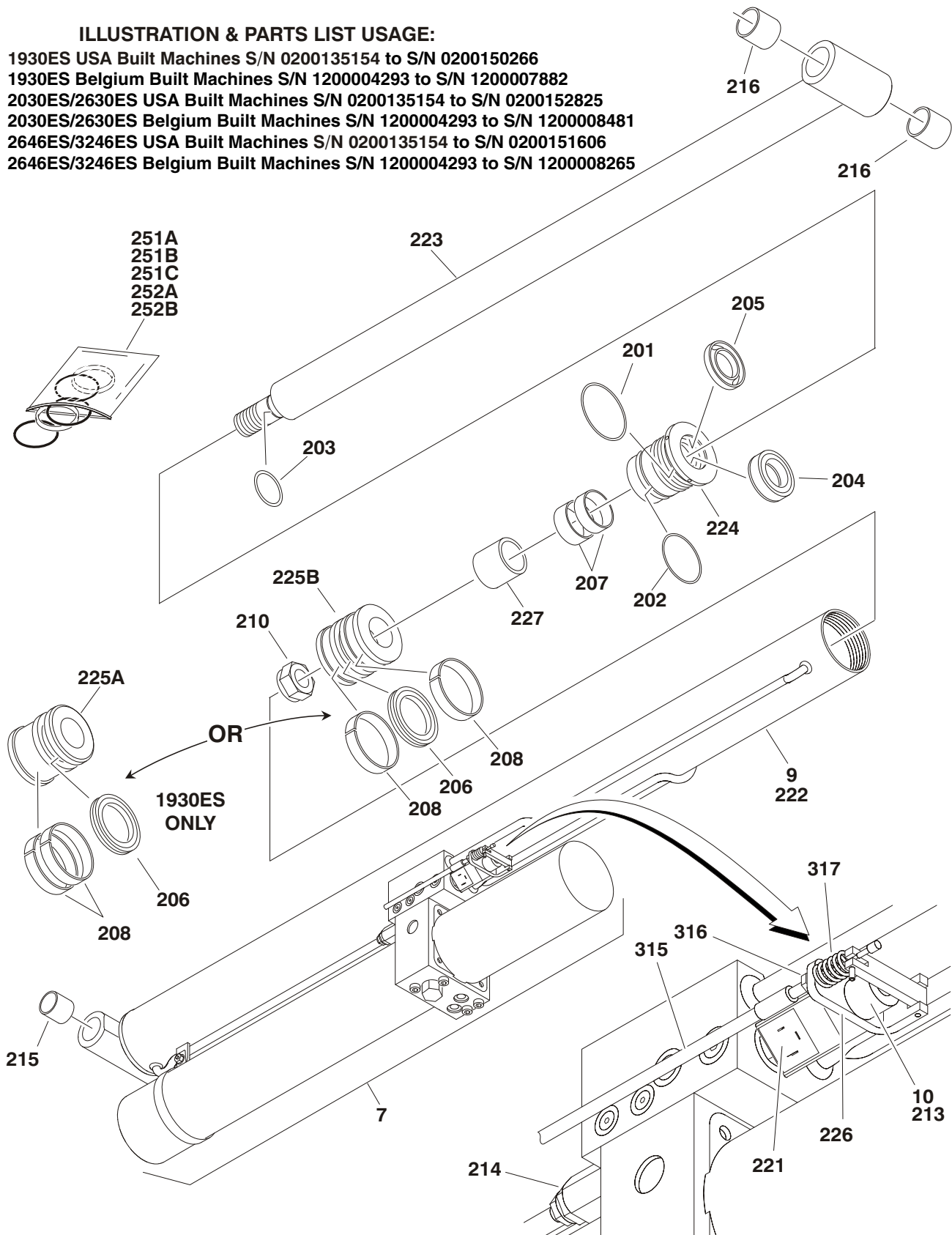
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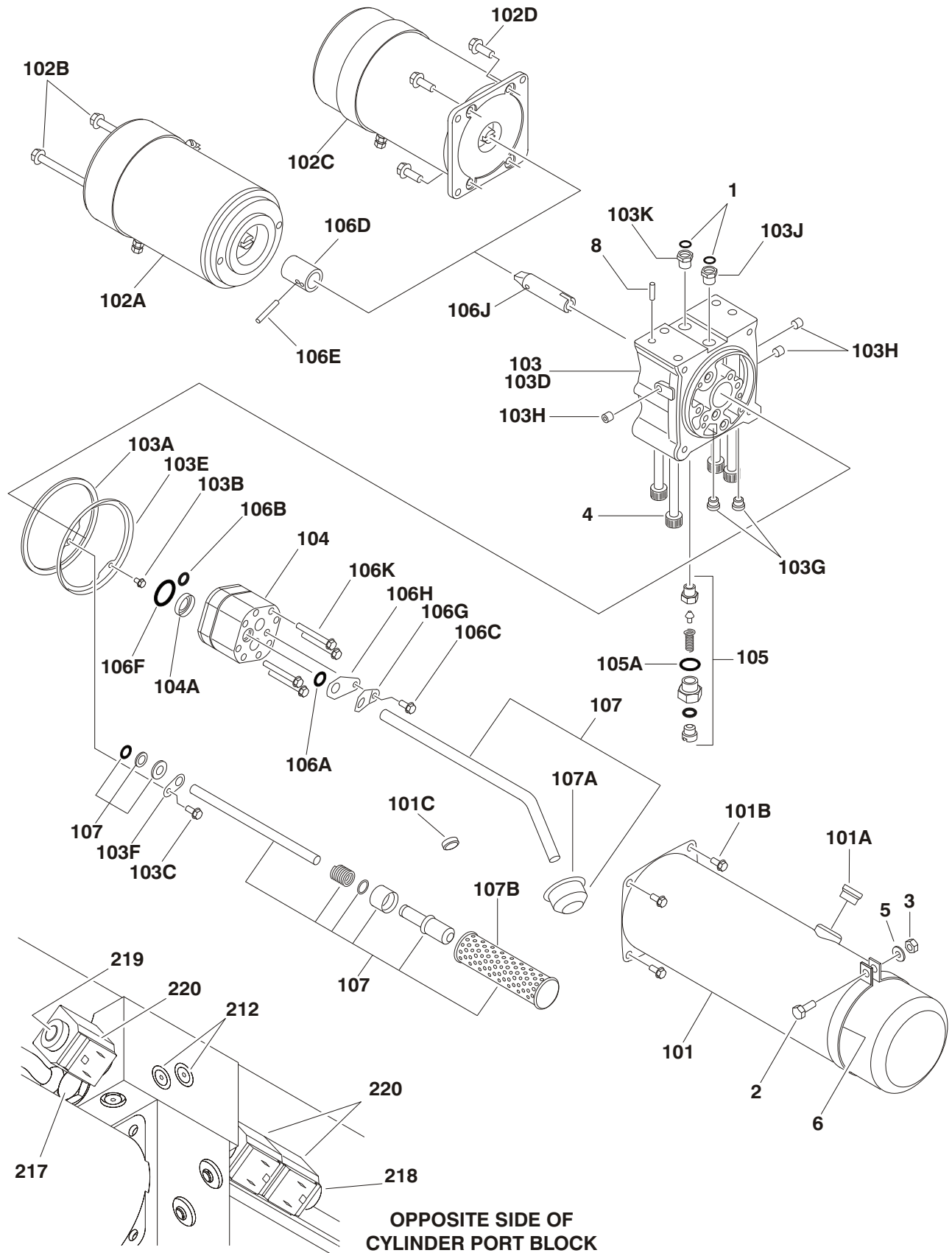
FIGURE 5-1. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ILLUSTRATION & PARTS LIST USAGE:

1930ES USA Built Machines S/N 0200135154 to S/N 0200150266
 1930ES Belgium Built Machines S/N 1200004293 to S/N 1200007882
 2030ES/2630ES USA Built Machines S/N 0200135154 to S/N 0200152825
 2030ES/2630ES Belgium Built Machines S/N 1200004293 to S/N 1200008481
 2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151606
 2646ES/3246ES Belgium Built Machines S/N 1200004293 to S/N 1200008265



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FIGURE 5-1. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ILLUSTRATION & PARTS LIST USAGE:	
		Ref.	1930ES - USA Built Machines S/N 0200135154 to S/N 0200150266	
		Ref.	1930ES - Belgium Built Machines S/N 1200004293 to S/N 1200007882	
		Ref.	2030ES/2630ES - USA Built Machines S/N 0200135154 to S/N 0200152825	
		Ref.	2030ES/2630ES - Belgium Built Machines S/N 1200004293 to S/N 1200008481	
		Ref.	2646ES/3246ES - USA Built Machines S/N 0200135154 to S/N 0200151606	
		Ref.	2646ES/3246ES - Belgium Built Machines S/N 1200004293 to S/N 1200008265	
		Ref.	LIFT CYLINDER ASSEMBLY	
	1684265	Ref.	1930ES	E
	1684258	Ref.	2030ES	D
	1684302	Ref.	2630ES	C
	1684260	Ref.	2646ES	F
	1684257	Ref.	3246ES	F
1	7023577	2	O-Ring	
2	Not Available	1	Capscrew (All except 1930ES Models)	
3	Not Available	1	Locknut (All except 1930ES Models)	
4	7023589	4	Capscrew	
5	Not Available	2	Flatwasher (All except 1930ES Models)	
6	7023539	1	Clamp (All except 1930ES Models)	
7		1	Power Pack Assembly - Complete Options (See Items 101-107B for Breakdown):	
	7023558		1930ES	
	7023549		2030ES	
	7023568		2630ES	
	7023557		2646ES	
	7023535		3246ES	
8		2	Pin, Alignment Options;	
	70003646		Pin, Dowel	
	70003645		Rollpin	
9	Not Available	1	Cylinder Assembly Only (See Items 201-227 for Breakdown)	
10	Not Available	1	Plug, Brass (Orifice)	
11	7019864	1	Setscrew (1930ES Only) (Not Shown)	

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FIGURE 5-1. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		1	POWER PACK ASSEMBLY - COMPLETE	
	7023558	Ref.	1930ES (1684265 Cylinder)	
	7023549	Ref.	2030ES (1684258 Cylinder)	
	7023568	Ref.	2630ES (1684302 Cylinder)	
	7023557	Ref.	2646ES (1684260 Cylinder)	
	7023535	Ref.	3246ES (1684257 Cylinder)	
101		1	Tank Kit Options (Note: Includes Tank & Items 101A-101C):	
	7023569		1930ES	
	7023587		2030ES	
	7023585		2630ES	
	7023578		2646ES	
	7023583		3246ES	
101A	7023593	1	Plug, Fill	
101B	Use Item 101	4	Screw	
101C	Use Item 101	1	Magnet	
102		A/R	Motor Options:	
102A	7023570	1	1930ES/2030ES/2630ES Motor	
	70000658	1	Brush Kit - 7023570 Motor	
102B	Not Available	2	Screw	
102C	7023579	1	2646ES/3246ES Motor	
	70000659	1	Brush Kit - 7023579 Motor	
102D	Not Available	4	Screw	
	Not Available	4	Washer	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring	
103B	Use Item 103	1	Screw	
103C	Use Item 103	1	Screw	
103D	Use Item 103	1	Adapter	
103E	See Note	1	Seal (Note: Use Item 252A or 252B)	
103F	Use Item 103	1	Retainer	
103G	2220883	2	Plug	
103H	Use Item 103	3	Plug	
103J	Use Item 103	1	Breather 9/16"- 12UNC	
103K	Use Item 103	1	Breather 9/16"- 18SAE	
104		1	Pump Options:	
			Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.	
	7023572		1930ES/2630ES Pump	
	7023588		2030ES Pump	
	7023580		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		A/R	Power Pack Miscellaneous Service Parts	
106A	Not Available	1	Seal	
106B	See Note	1	Seal (Note: Use Item 252A or 252B)	
106C	Not Available	1	Screw	
106D	Use Item 106J	1	Sleeve (1930ES/2030ES/2630ES Only)	

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FIGURE 5-1. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
106E	Use Item 106J	1	Rollpin (1930ES/2030ES/2630ES Only)	
106F	See Note	1	Seal (Note: Use Item 252A or 252B)	
106G	Not Available	1	Tab, Locking	
106H	Not Available	1	Retainer, Tube	
106J		1	Coupler Kit Options:	
	7023574		1930ES/2030ES/2630ES (Includes Items 106D & 106E)	
	7023581		2646ES/3246ES	
106K	Not Available	4	Screw	
107		1	Tube Kit Options:	
	7023575		1930ES	
	7023586		2030ES/2630ES	
	7023582		2646ES	
	7023584		3246ES	
107A	Use Item 107	1	Strainer	
107B	7023576	1	Filter Element (Includes Seal)	
		Ref.	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251A, 251B or 251C)	
202	See Note	1	O-Ring (Note: Use Item 251A, 251B or 251C)	
203	See Note	2	O-Ring (Note: Use Item 251A, 251B or 251C)	
204	See Note	1	Seal (Note: Use Item 251A, 251B or 251C)	
205	See Note	1	Wiper (Note: Use Item 251A, 251B or 251C)	
206	See Note	1	Seal (Note: Use Item 251A, 251B or 251C) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	2	Ring, Wear (Note: Use Item 251A, 251B or 251C)	
208	See Note	2	Ring, Wear (Note: Use Item 251A, 251B or 251C)	
209	Not Used			
210	Not Available	1	Locknut	
211	2220882	4	Plug, Steel (SAE #3) (Not Shown)	
212	2220883	8	Plug, Steel (SAE #4)	
213	7023543	1	Valve, Proportional (Lift Down)	
214	7023542	1	Valve, Relief (Steer)	
215		2	Bushing Options:	
	0962257		1930ES/2030ES/2630ES	
	0962006		2646ES/3246ES	
216		2	Bushing Options:	
	0962257		1930ES/2030ES/2630ES	
	0962181		2646ES/3246ES	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	7023541	3	Coil (Steer & Lift Up)	
221	7023540	1	Coil (Lift Down)	
222		1	Barrel Options:	
	7023553		1930ES	
	7023548		2030ES/2630ES	
	7023556		2646ES	
	7023534		3246ES	

SECTION 5 CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
223		1	Rod Options:	
	7023552		1930ES	
	7023547		2030ES/2630ES	
	7023555		2646ES	
	7023533		3246ES	
224		1	Head Options:	
	7023551		1930ES	
	7023546		2030ES/2630ES	
	7023532		2646ES/3246ES	
225		1	Piston Options:	
225A	7023550		1930ES	
225B	7023545		2030ES/2630ES	
225B	7023531		2646ES/3246ES	
226	7023530		Emergency Release Assembly	
227		A/R	Spacer Options:	
	Not Required	0	1930ES/2030ES/2630ES/2646ES	
	7023529	1	3246ES	
		Ref.	SEAL KIT OPTIONS	
251		1	Seal Kit - Cylinder Options (Includes Items 201-208):	
251A	7023554		1930ES	
251B	7023544		2030ES/2630ES	
251C	7023528		2646ES/3246ES	
252		1	Seal Kit - Reservoir/Pump Options (Includes 103A, 103E, 104A, 106B & 106F):	
252A	70001709		1930ES/2030ES/2630ES	
252B	70001982		2646ES/3246ES	
		Ref.	MANUAL DESCENT COMPONENTS	
	0272735	Ref.	1930ES	H
	0272730	Ref.	2030ES	D
	0272608	Ref.	2630ES	D
	0272623	Ref.	2646ES	F
	0272622	Ref.	3246ES	F
301 to 314	Not Used			
315		1	Cable, Pull Options:	
	1061036		1930ES	
	Use 1061036		2030ES/2630ES (was p/n 1061035)	
	1061034		2646ES/3246ES	
	7020218	1	T-Handle (with 1/4"-20 Threads)	
	70001878	1	T-Handle (with 5mm Threads)	
316	3321402	1	Nut, Jam 1/4"-18NF	
317	4160078	1	Spring	

SECTION 5 CYLINDER

FIGURE 5-2. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LISTS)

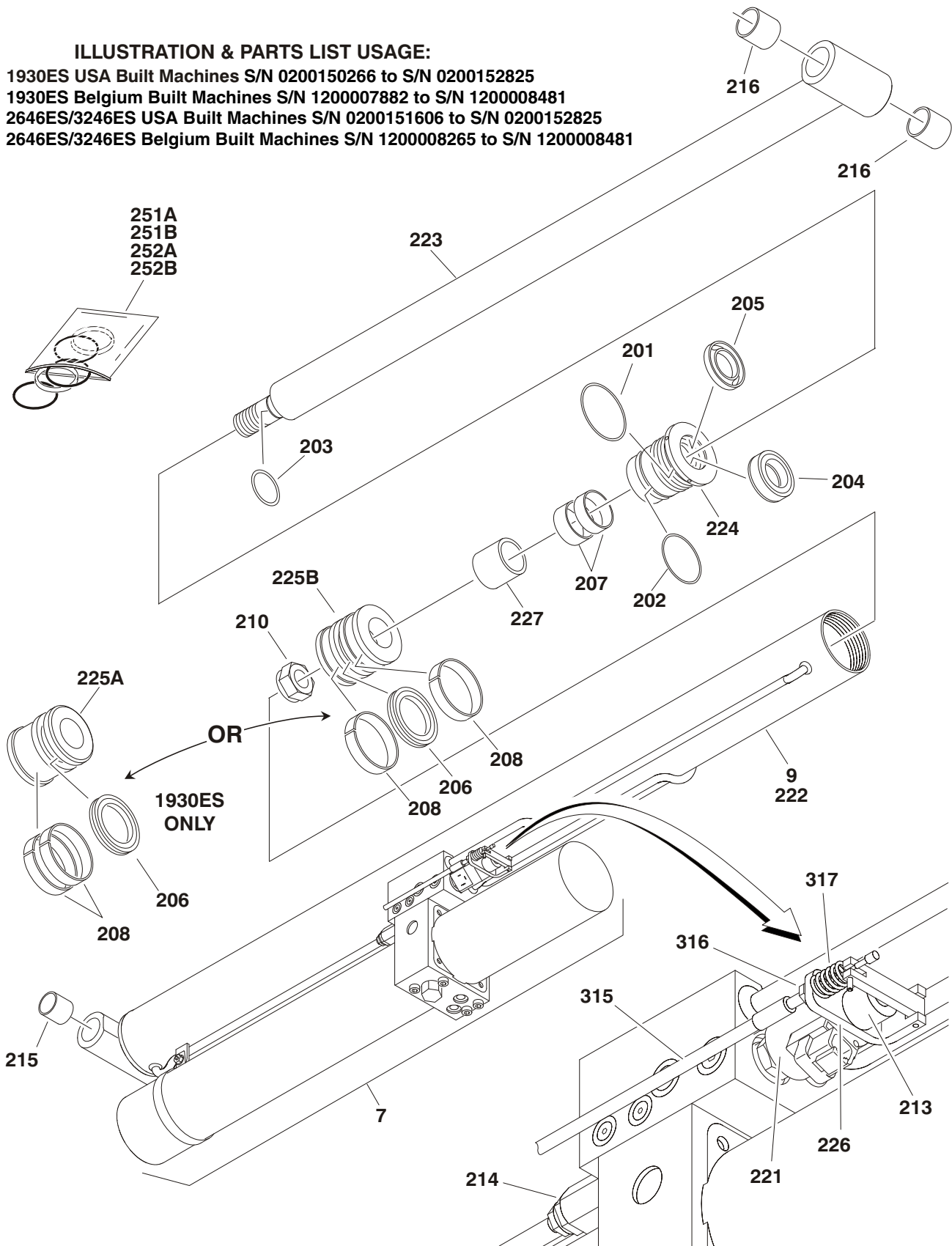
ILLUSTRATION & PARTS LIST USAGE:

1930ES USA Built Machines S/N 0200150266 to S/N 0200152825

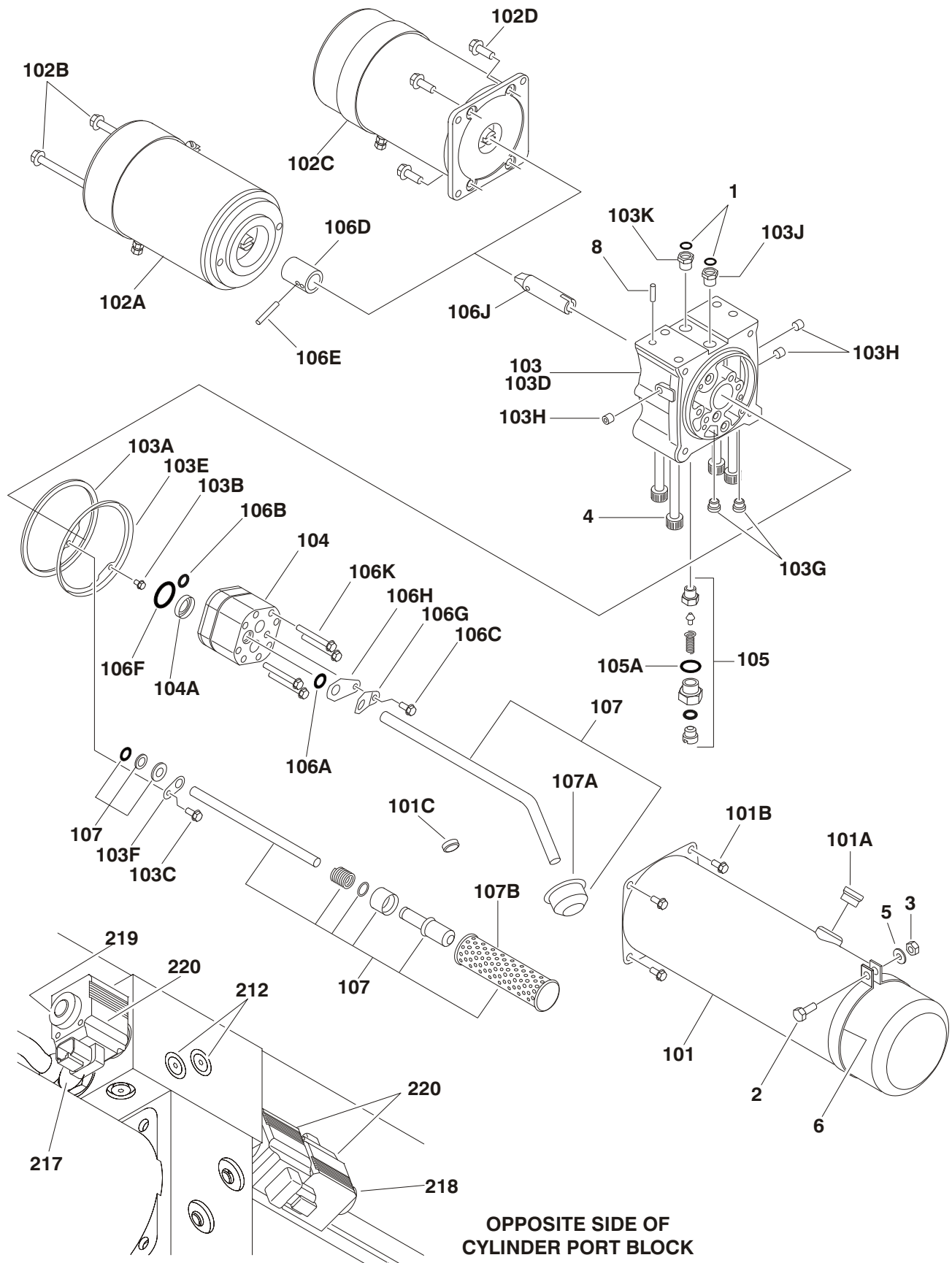
1930ES Belgium Built Machines S/N 1200007882 to S/N 1200008481

2646ES/3246ES USA Built Machines S/N 0200151606 to S/N 0200152825

2646ES/3246ES Belgium Built Machines S/N 1200008265 to S/N 1200008481



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SECTION 5 CYLINDER

FIGURE 5-2. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LISTS)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ILLUSTRATION & PARTS LIST USAGE:	
		Ref.	1930ES - USA Built Machines S/N 0200150266 to S/N 0200152825	
		Ref.	1930ES - Belgium Built Machines S/N 1200007882 to S/N 1200008481	
		Ref.	2646ES/3246ES - USA Built Machines S/N 0200151606 to S/N 0200152825	
		Ref.	2646ES/3246ES - Belgium Built Machines S/N 1200008265 to S/N 1200008481	
		Ref.	LIFT CYLINDER ASSEMBLY	
	1684484	Ref.	1930ES with Standard Hydraulic Oil	C
	1684526	Ref.	1930ES with Biodegradeable Hydraulic Oil	B
	1684489	Ref.	2646ES with Standard Hydraulic Oil	C
	1684529	Ref.	2646ES with Biodegradeable Hydraulic Oil	B
	1684490	Ref.	3246ES with Standard Hydraulic Oil	C
	1684530	Ref.	3246ES with Biodegradeable Hydraulic Oil	B
1	7023577	2	O-Ring	
2	Not Available	1	Capscrew (2646ES/3246ES Only)	
3	Not Available	1	Locknut (2646ES/3246ES Only)	
4	7023589	4	Capscrew	
5	Not Available	2	Flatwasher (2646ES/3246ES Only)	
6	7023539	1	Clamp (2646ES/3246ES Only)	
7		1	Power Pack Assembly - Complete Options (See Items 101-107B for Breakdown):	
	7023558		1930ES	
	7023557		2646ES	
	7023535		3246ES	
8		2	Pin, Alignment Options;	
	70003646		Pin, Dowel	
	70003645		Rollpin	
9	Not Available	1	Cylinder Assembly Only (See Items 201-227 for Breakdown)	
		Ref.	POWER PACK ASSEMBLY - COMPLETE	
	7023558	Ref.	1930ES (1684484/1684526 Cylinders)	
	7023557	Ref.	2646ES (1684489/1684529 Cylinders)	
	7023535	Ref.	3246ES (1684490/1684530 Cylinders)	
101		1	Tank Kit Options (Note: Includes Tank & Item 101A-101C):	
	7023569		1930ES	
	7023578		2646ES	
	7023583		3246ES	
101A	7023593	1	Plug, Fill	
101B	Use Item 101	4	Screw	
101C	Use Item 101	1	Magnet	

SECTION 5 CYLINDER

FIGURE 5-2. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LISTS) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
102		A/R	Motor Options:	
102A	7023570	1	1930ES Motor	
	70000658	1	Brush Kit - 7023570 Motor	
102B	Not Available	2	Screw	
102C	7023579	1	2646ES/3246ES Motor	
	70000659	1	Brush Kit - 7023579 Motor	
102D	Not Available	4	Screw	
	Not Available	4	Washer	
103	7023571	1	Adapter	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring	
103B	Use Item 103	1	Screw	
103C	Use Item 103	1	Screw	
103D	Use Item 103	1	Adapter	
103E	See Note	1	Seal (Note: Use Item 252A or 252B)	
103F	Use Item 103	1	Retainer	
103G	2220883	2	Plug	
103H	Use Item 103	3	Plug	
103J	Use Item 103	1	Breather 9/16"- 12UNC	
103K	Use Item 103	1	Breather 9/16"- 18SAE	
104		1	Pump Options:	
			Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.	
	7023572		1930ES Pump	
	7023580		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		A/R	Power Pack Miscellaneous Service Parts	
106A	Not Available	1	Seal	
106B	See Note	1	Seal (Note: Use Item 252A or 252B)	
106C	Not Available	1	Screw	
106D	Use Item 106J	1	Sleeve (1930ES Only)	
106E	Use Item 106J	1	Rollpin (1930ES Only)	
106F	See Note	1	Seal (Note: Use Item 252A or 252B)	
106G	Not Available	1	Tab, Locking	
106H	Not Available	1	Retainer, Tube	
106J		1	Coupler Kit Options:	
	7023574		1930ES (Includes Items 106D & 106E)	
	7023581		2646ES/3246ES	
106K	Not Available	4	Screw	
107		1	Tube Kit Options:	
	7023575		1930ES	
	7023582		2646ES	
	7023584		3246ES	
107A	Use Item 107	1	Strainer	
107B	7023576	1	Filter Element (Includes Seal)	

SECTION 5 CYLINDER

FIGURE 5-2. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LISTS) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251A or 251B)	
202	See Note	1	O-Ring (Note: Use Item 251A or 251B)	
203	See Note	2	O-Ring (Note: Use Item 251A or 251B)	
204	See Note	1	Seal (Note: Use Item 251A or 251B)	
205	See Note	1	Wiper (Note: Use Item 251A or 251B)	
206	See Note	1	Seal (Note: Use Item 251A or 251B) (Note: This is a 3 piece seal. Assembly may be required)	
207	See Note	2	Ring, Wear (Note: Use Item 251A or 251B)	
208	See Note	2	Ring, Wear (Note: Use Item 251A or 251B)	
209	Not Used			
210	Not Available	1	Locknut	
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		2	Bushing Options:	
	0962257		1930ES	
	0962006		2646ES/3246ES	
216		2	Bushing Options:	
	0962257		1930ES	
	0962181		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 & Lift Up)	
221	70000799	1	Coil (Lift Down)	
222		1	Barrel Options:	
	7023553		1930ES	
	7023556		2646ES	
	7023534		3246ES	
223		1	Rod Options:	
	7023552		1930ES	
	7023533		2646ES/3246ES	
224		1	Head Options:	
	7023551		1930ES	
	7023532		2646ES/3246ES	
225		1	Piston Options:	
225A	7023550		1930ES	
225B	7023531		2646ES/3246ES	
226	7023530		Emergency Release Assembly	
227		A/R	Spacer Options:	
	Not Required	0	1930ES/2646ES	
	7023529	1	3246ES	

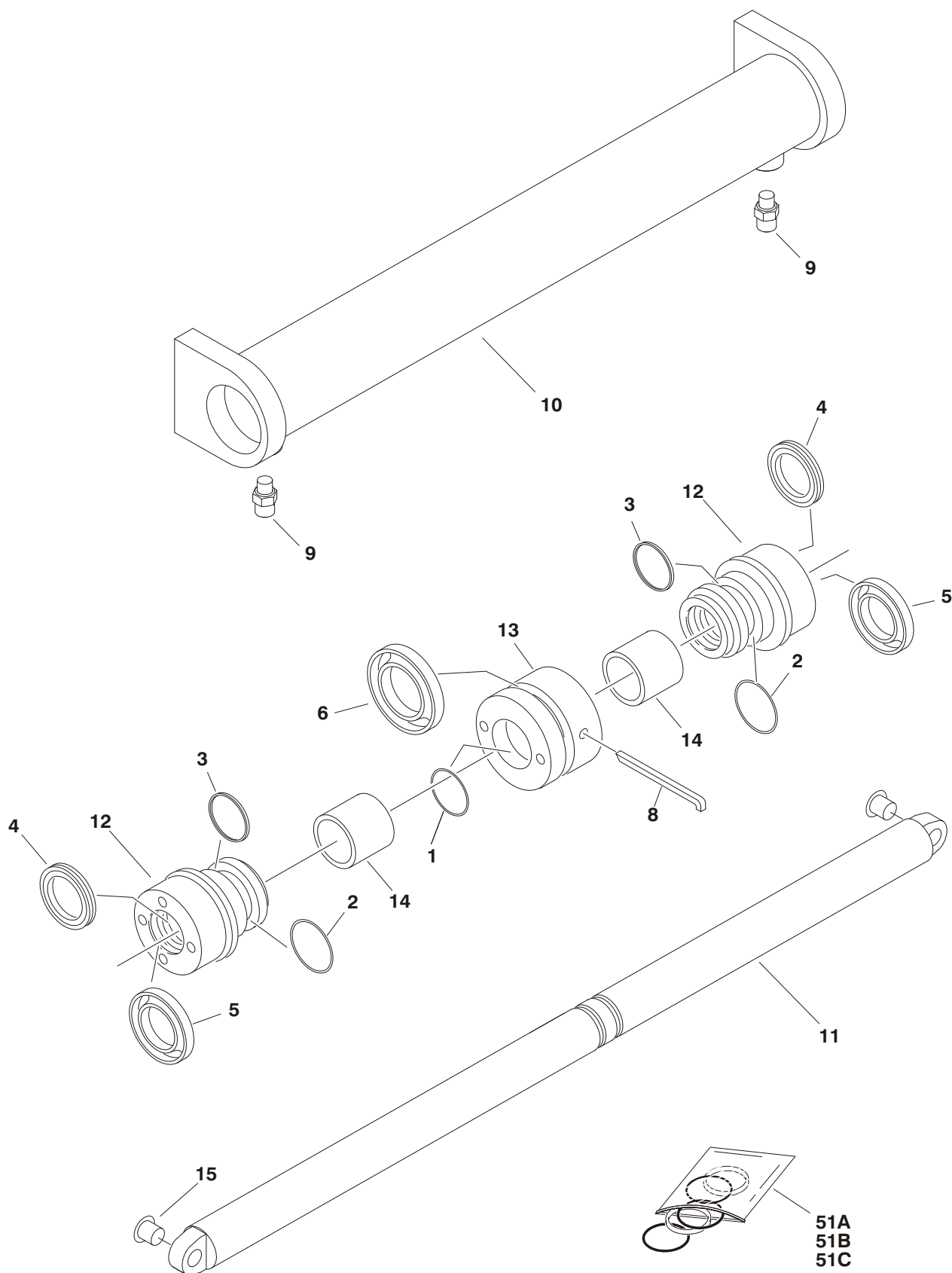
SECTION 5 CYLINDER

FIGURE 5-2. LIFT CYLINDER ASSEMBLY (FOR MODEL & S/N USAGE SEE TOP OF PARTS LISTS) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	SEAL KIT OPTIONS	
251		1	Seal Kit - Cylinder Options (Includes Items 201-208):	
251A	7023554		1930ES	
251B	7023528		2646ES/3246ES	
252		1	Seal Kit - Reservoir/Pump Options (Includes 103A, 103E, 104A, 106B & 106F):	
252A	70001709		1930ES	
252B	70001982		2646ES/3246ES	
		Ref.	MANUAL DESCENT COMPONENTS	
	0274874	Ref.	1930ES with Standard Hydraulic Oil	D
	0275692	Ref.	1930ES with Biodegradable Hydraulic Oil	B
	0274879	Ref.	2646ES with Standard Hydraulic Oil	C
	0275695	Ref.	2646ES with Biodegradable Hydraulic Oil	B
	0274881	Ref.	3246ES with Standard Hydraulic Oil	C
	0275696	Ref.	3246ES with Biodegradable Hydraulic Oil	B
301 to 314	Not Used			
315		1	Cable, Pull Options:	
	1061036		9ft/2.74m Length (1930ES)	
	1061034		12.5ft/3.81m Length (2646ES/3246ES)	
	7020218	1	T-Handle (with 1/4"-20 Threads)	
	70001878	1	T-Handle (with 5mm Threads)	
316	3321402	1	Nut, Jam 1/4"-18NF	
317	4160078	1	Spring	

SECTION 5 CYLINDER

FIGURE 5-3. STEER CYLINDER ASSEMBLY



SECTION 5 CYLINDER

FIGURE 5-3. STEER CYLINDER ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	STEER CYLINDER ASSEMBLY	
	1684237	Ref.	1930ES/2030ES/2630ES	D
	1684263	Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	E
	1684456	Ref.	2646ES/3246ES USA Built Machines S/N 0200137094 to S/N 0200152825 & Belgium Built Machines S/N 1200004608 to S/N 1200008481	A
1	See Note	1	O-Ring (Note: Use Item 51A, 51B or 51C)	
2	See Note	2	O-Ring (Note: Use Item 51A, 51B or 51C)	
3	See Note	2	Ring, Back-Up (Note: Use Item 51A, 51B or 51C)	
4	See Note	2	Seal (Note: Use Item 51A, 51B or 51C)	
5	See Note	2	Wiper (Note: Use Item 51A, 51B or 51C)	
6	See Note	1	Seal (Note: Use Item 51A, 51B or 51C)	
7	Not Used			
8	7023564	1	Ring, Retaining	
9	2110404	2	Fitting, Straight Adapter	
10		1	Tube Assembly Options:	
	7023563		1930ES/2030ES/2630ES	
	7023567		2646ES/3246ESUSA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	
	70000108		2646ES/3246ESUSA Built Machines S/N 0200137094 to S/N 0200152825 & Belgium Built Machines S/N 1200004608 to S/N 1200008481	
11		1	Rod Options:	
	7023562		1930ES/2030ES/2630ES	
	7023566		2646ES/3246ESUSA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	
	70000110		2646ES/3246ESUSA Built Machines S/N 0200137094 to S/N 0200152825 & Belgium Built Machines S/N 1200004608 to S/N 1200008481	
12	7023561	2	Head	
13	7023560	1	Piston	
14			Spacer Options:	
	Not Required	0	1930ES/2030ES/2630ES	
	7023565	2	2646ES/3246ES	
15	0440259	2	Bushing	
51		1	Seal Kit - Cylinder Options (Includes Items 1-6):	
51A	7023559		1930ES/2030ES/2630ES	
51B	7023559		2646ES/3246EUSA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	
51C	70000107		2646ES/3246EUSA Built Machines S/N 0200137094 to S/N 0200152825 & Belgium Built Machines S/N 1200004608 to S/N 1200008481	

SECTION 5 CYLINDER

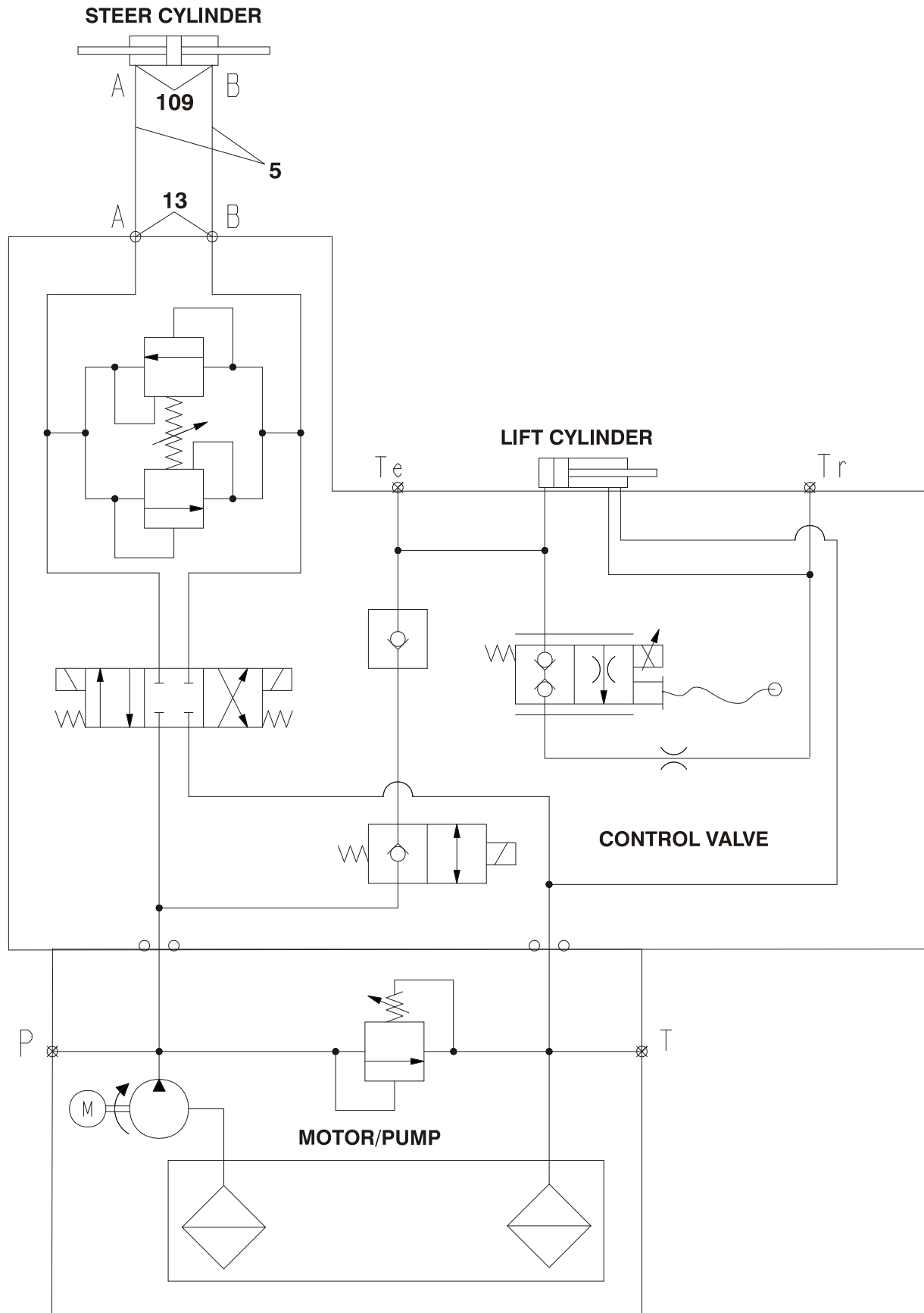
FIGURE 5-3. STEER CYLINDER ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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	
	0272371	Ref.	Steer Hydraulics (1930ES)	F
	0273227	Ref.	Steer Hydraulics (2030ES/2630ES)	C
	0272372	Ref.	Steer Hydraulics (2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004587)	G
	0274546	Ref.	Steer Hydraulics (2646ES/3246ES USA Built Machines S/N 0200137094 to S/N 0200152825 & Belgium Built Machines S/N 1200004587 to S/N 1200008481)	B
	2792599	Ref.	Hydraulic Schematic	C
1 to 4	Not Used			
5		2	Hose Options: 1930ES/2030ES/2630ES 2646ES/3246ES	
	2753882			
	2753883			
6 to 12	Not Used			
13	2110404	2	Fitting, Straight	
		Ref.	STEER CYLINDER ASSEMBLY	
	1684237	Ref.	1930ES/2030ES/2630ES	D
	1684263	Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200137094 & Belgium Built Machines S/N 1200004293 to S/N 1200004608	E
	1684456	Ref.	2646ES/3246ES USA Built Machines S/N 0200137094 to S/N 0200152825 & Belgium Built Machines S/N 1200004608 to S/N 1200008481	A
101 to 108	Not Used			
109	2110404	2	Fitting, Straight Adapter	

SECTION 6 HYDRAULIC

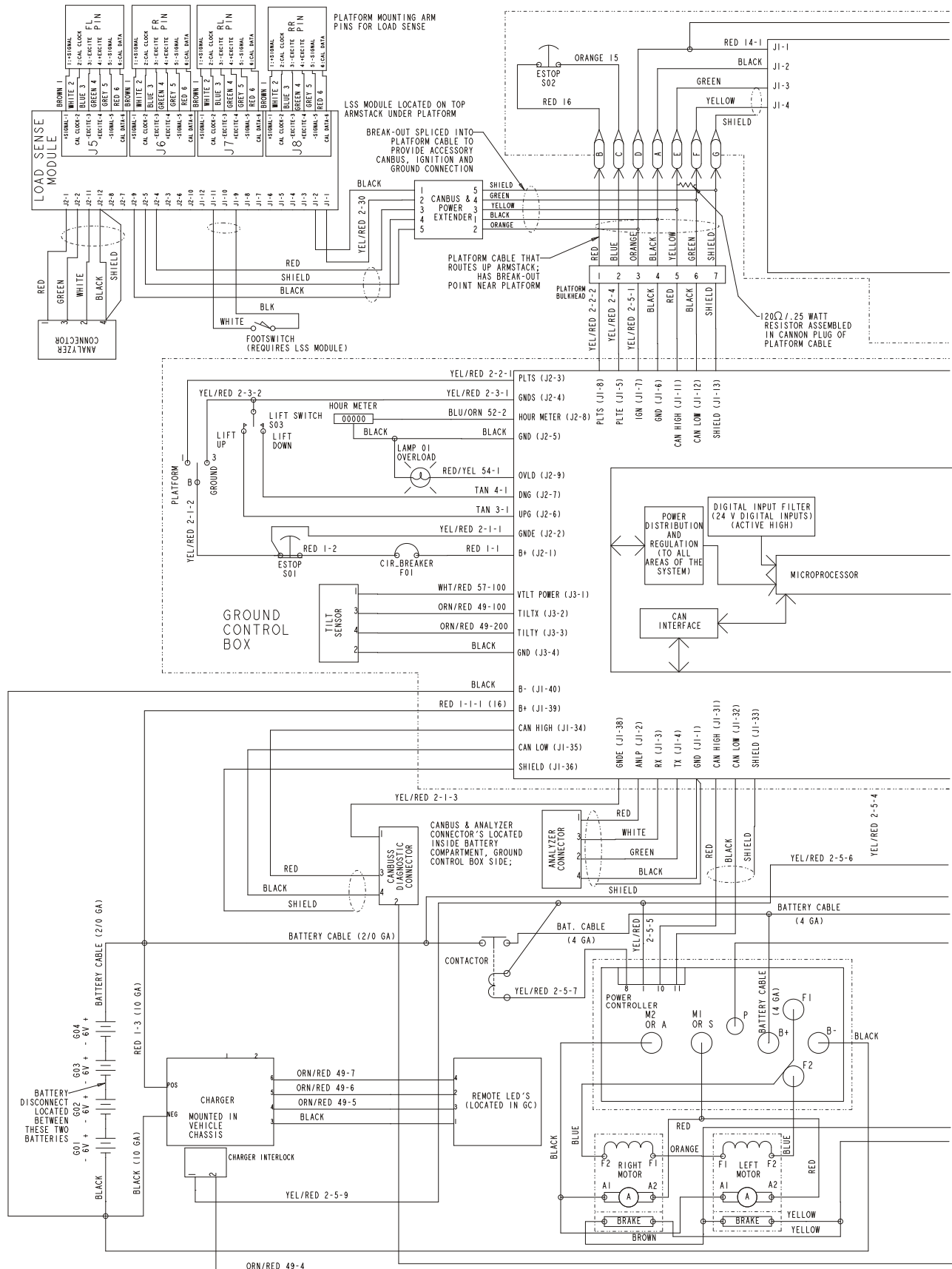
FIGURE 6-1. HYDRAULIC DIAGRAM (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

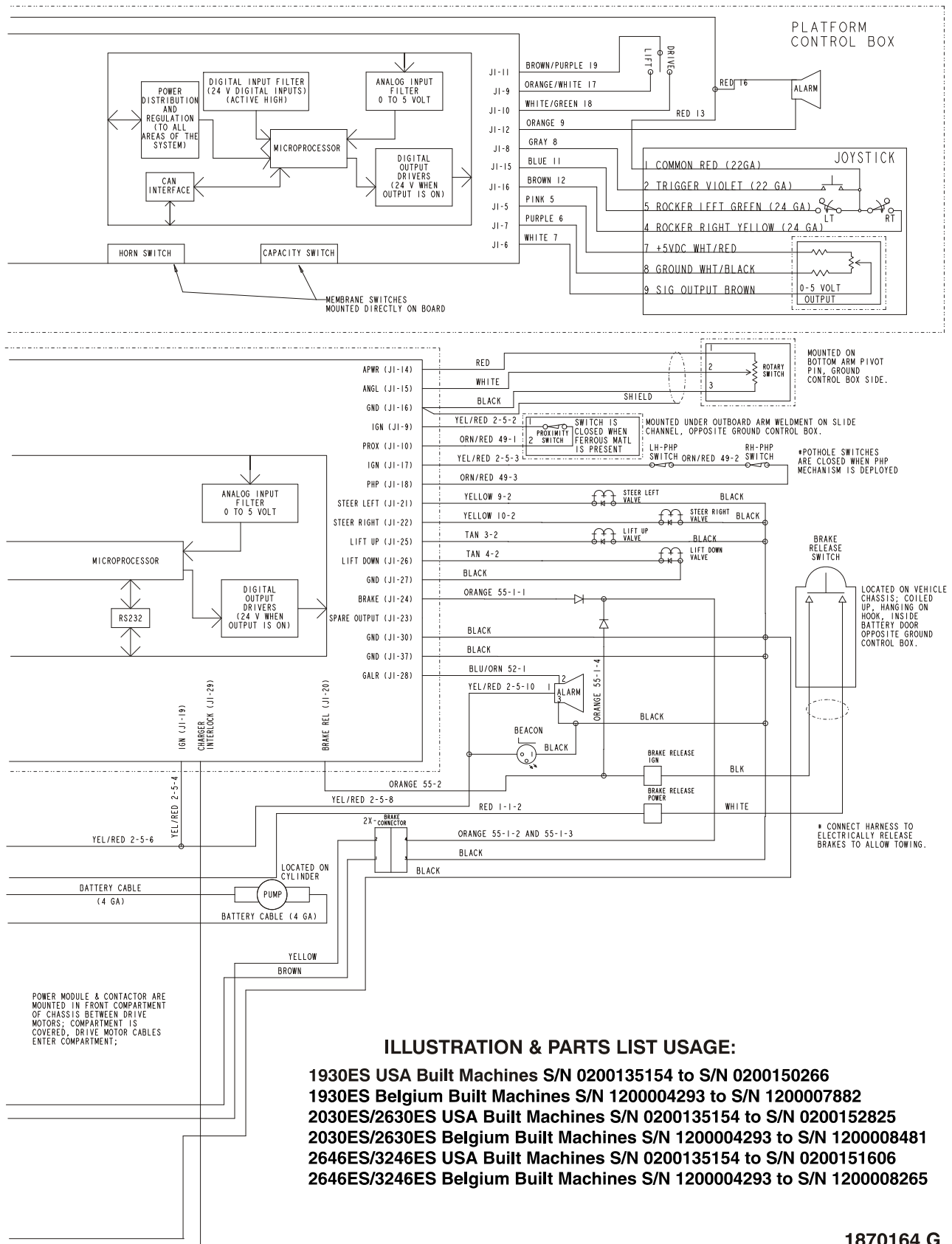
SECTION 7 ELECTRICAL

SECTION 7 ELECTRICAL

FIGURE 7-1. ELECTRICAL SCHEMATIC (FOR S/N USAGE SEE CHART)



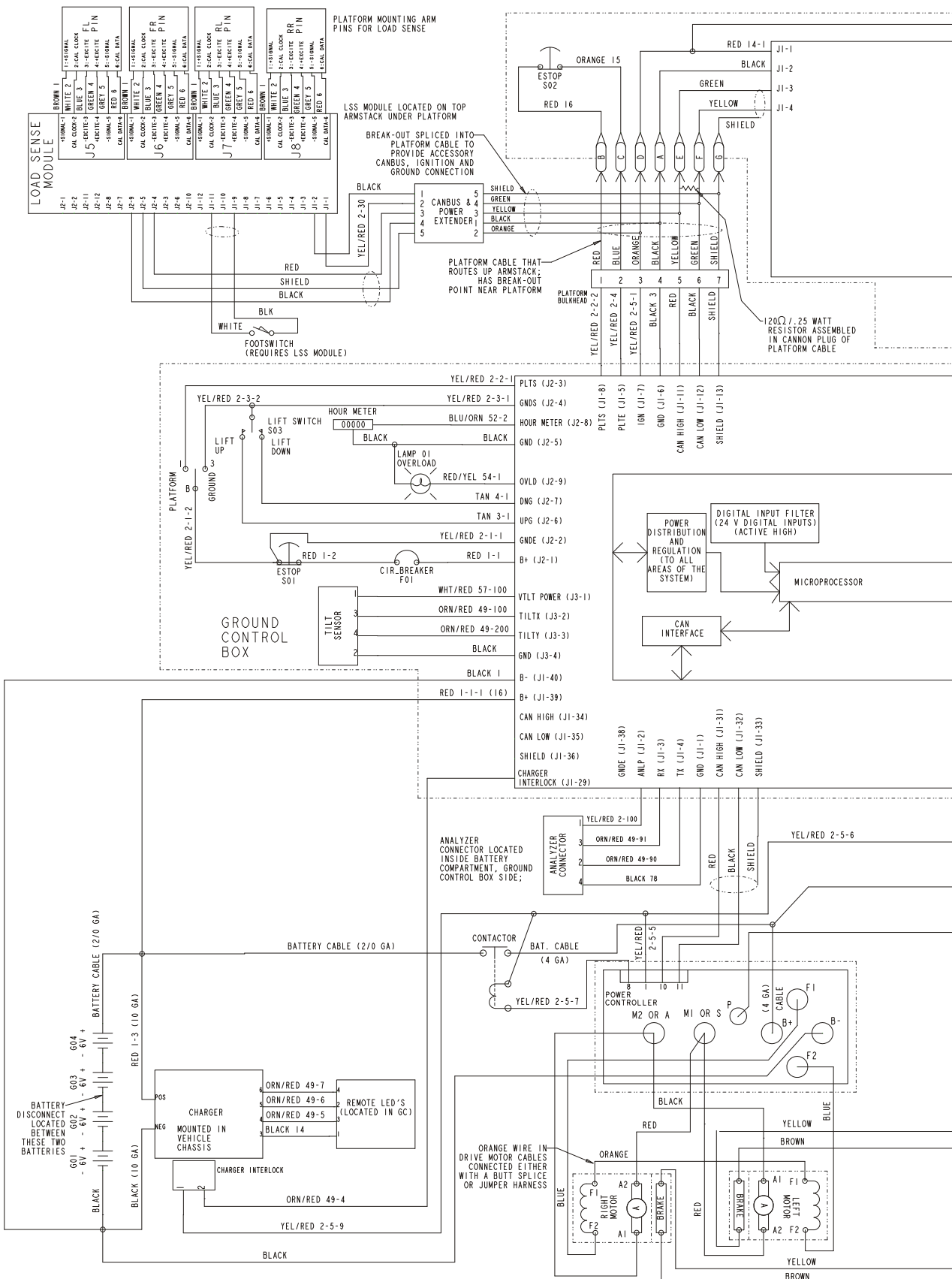
SECTION 7 ELECTRICAL



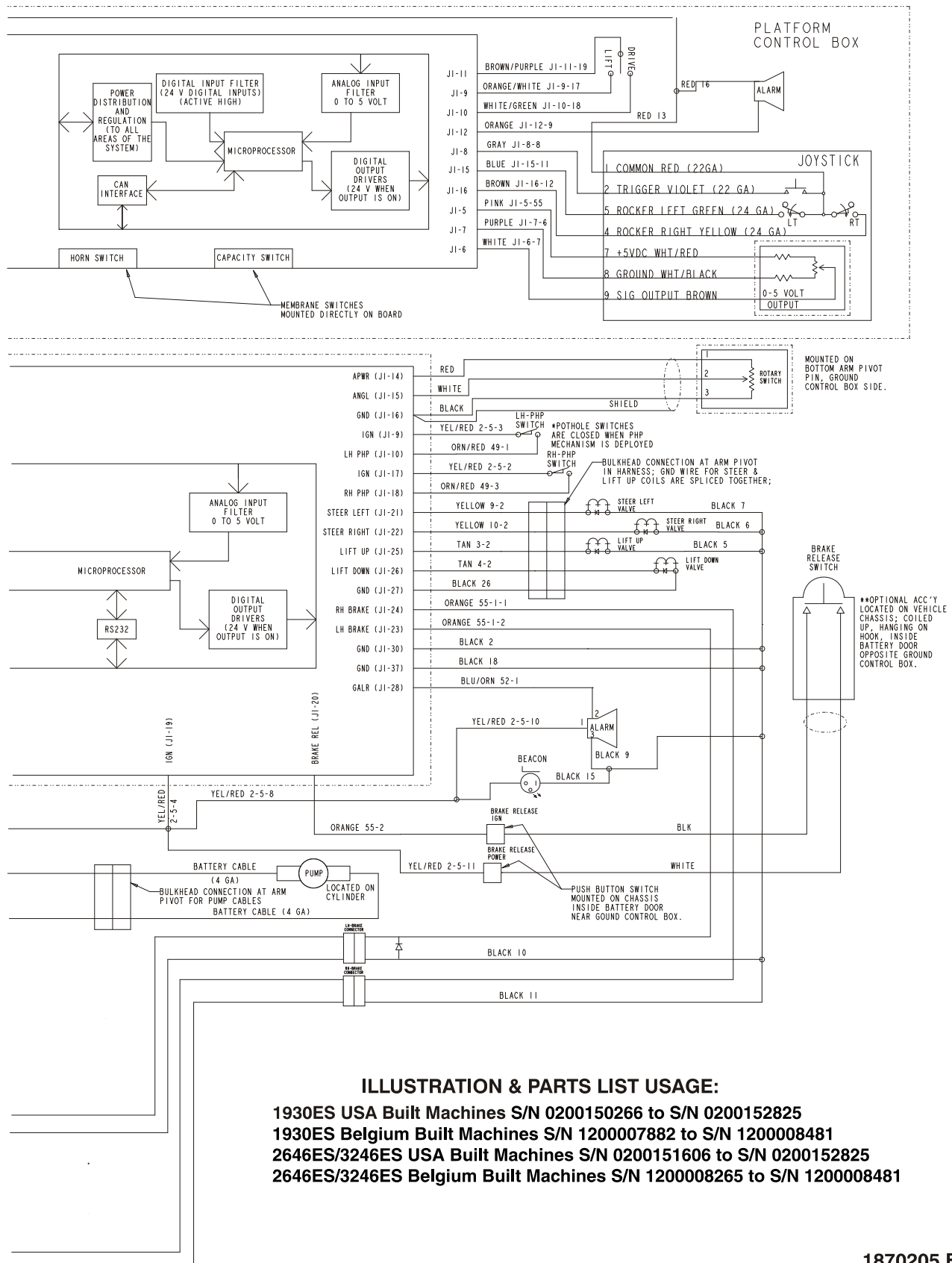
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SECTION 7 ELECTRICAL

FIGURE 7-2. ELECTRICAL SCHEMATIC (FOR S/N USAGE SEE CHART)



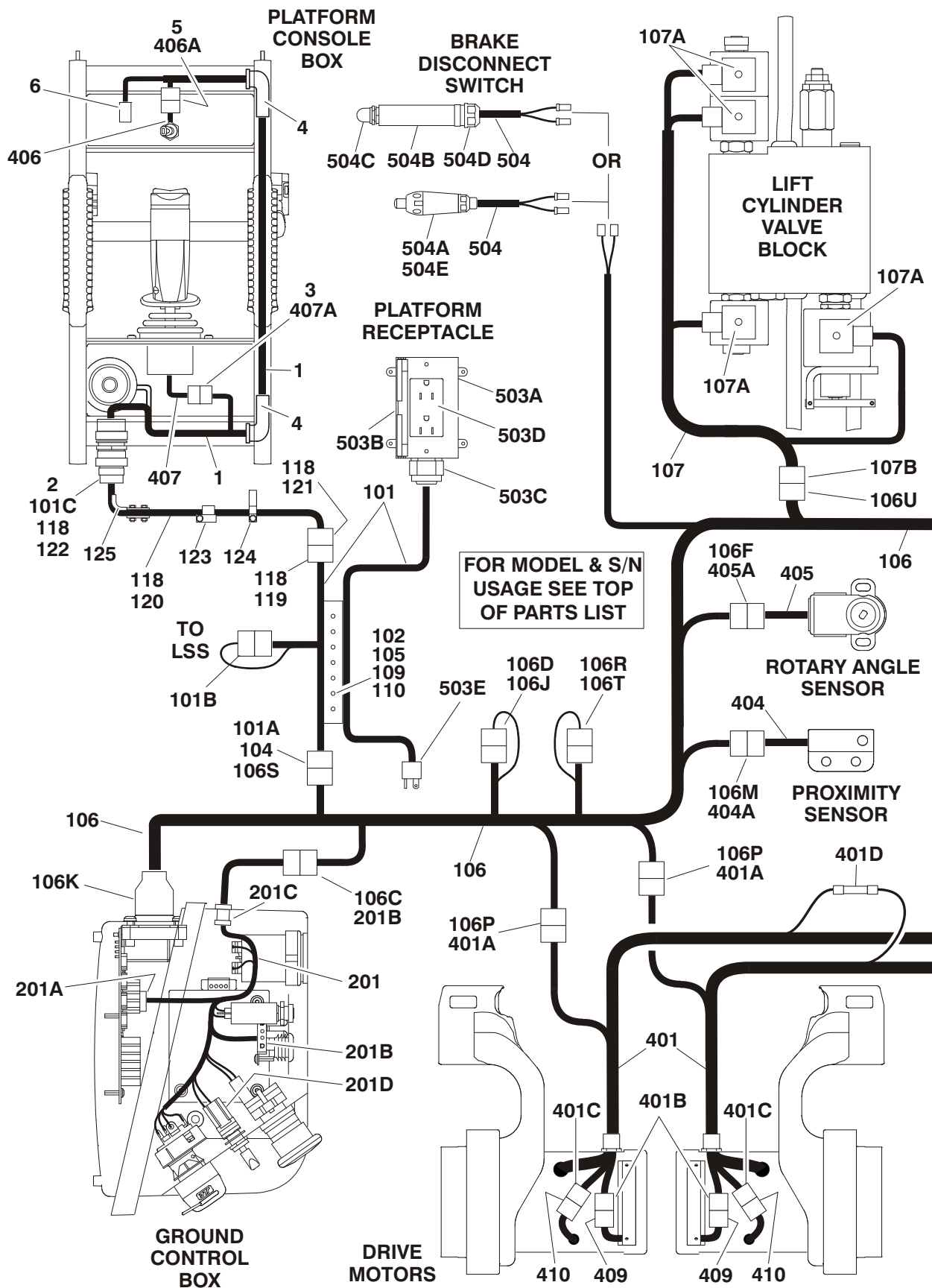
SECTION 7 ELECTRICAL

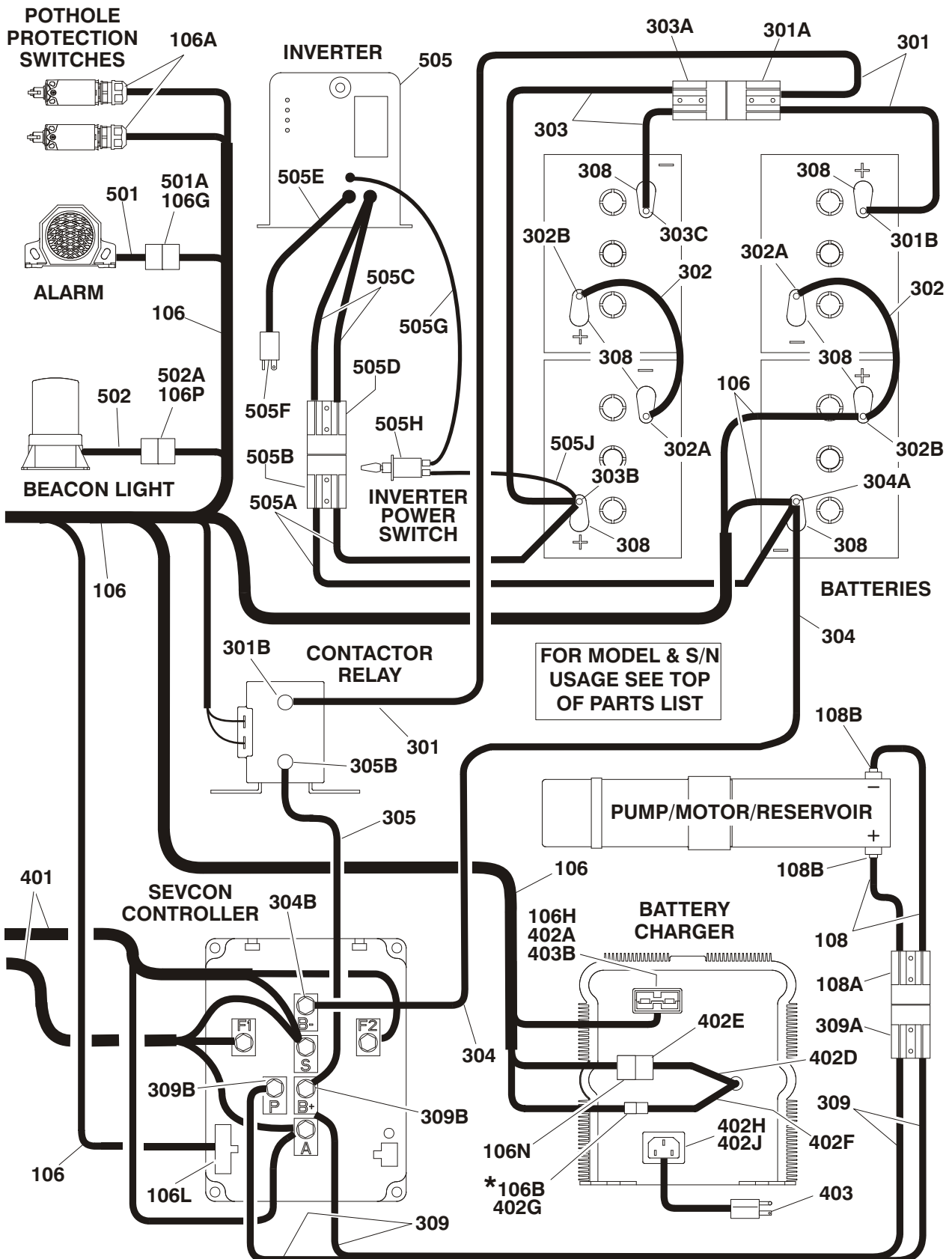


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SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)





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

SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ILLUSTRATION & PARTS LIST USAGE:	
		Ref.	1930ES USA Built Machines S/N 0200135154 to S/N 0200150266	
		Ref.	1930ES Belgium Built Machines S/N 1200004293 to S/N 1200007882	
		Ref.	2030ES/2630ES USA Built Machines S/N 0200135154 to S/N 0200152825	
		Ref.	2030ES/2630ES Belgium Built Machines S/N 1200004293 to S/N 1200008481	
		Ref.	2646ES/3246ES USA Built Machines S/N 0200135154 to S/N 0200151606	
		Ref.	2646ES/3246ES Belgium Built Machines S/N 1200004293 to S/N 1200008265	
		Ref.	CONSOLE BOX COMPONENTS	
1	4922870	1	Platform Box Harness	B
2	4461016	1	Connector - 14 Position	
	4460464	5	Pin, Male	
	4460466	9	Plug, Sealing	
	4460496	1	Lockwasher	
	4460497	1	Nut, Panel	
3	4460265	1	Plug, Male - 9 Position	
	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	
	0272832	Ref.	1930ES	I
	0272833	Ref.	2030ES	J
	0272834	Ref.	2630ES	J
	0272835	Ref.	2646ES/3246ES	J
101	See Note	1	Platform to Ground Harness Options: 1930ES (was p/n 1061028) ANSI, ANSI Export, Japanese & UL Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094154 & item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094154. See Additional notes above Item 101A.) Australian & CE Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094332 & item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094332. See Additional notes above Item 101A.)	

SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
101 Continued	See Note		2030ES (was p/n 1061029) ANSI, ANSI Export, Japanese & UL Specs (Note: For complete Ground to Platform Control Box Harness purchase p/ns 1001094155 & item 118p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094155. See Additional notes above Item 101A.) Australian & CE Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094333 & item 118 p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094333. See Additional notes above Item 101A.)	
	See Note		2630ES (was p/n 1061030) ANSI, ANSI Export, Japanese & UL Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094156 & item 118 p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094156. See Additional notes above Item 101A.) Australian & CE Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094334 & item 118 p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094334. See Additional notes above Item 101A.)	
	See Note		2646ES/3246ES (was p/n 1061031) ANSI, ANSI Export, Japanese & UL Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094157 & item 118 p/n 1001104468. For Platform to Ground Cable purchase only p/n 1001094157. See Additional notes above Item 101A.) Australian & CE Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094335 & item 118 p/n 1001104468. For Platform to Ground Cable purchase only p/n 1001094335. See Additional notes above Item 101A.)	
		Ref.	Note: If machine is equipped with platform rail padding limit switches harness p/n 4923250, replace with p/n 4923632 when installing complete Ground to Platform Control Box Harness.	
		Ref.	Note: If machine is equipped with overload sensing harness p/n 4922908, replace with p/n 4923228 when installing complete Ground to Platform Control Box Harness.	
		Ref.	Note: Items 101A-101C are Components for Original Equipment Platform to Ground Cable. See Items 119-122 if equipped with Replacement Coiled Harness Cable.	
	101A	4460930	1	Plug, Male - 8 Position
		4460465	4	Socket, Female
		4460944	3	Socket, Female (Gold)
		4460466	1	Plug, Sealing
		0840058	1	Boot 8 Position

SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
101B	4460894	1	Plug, Male - 6 Position	
	4460899	1	Receptacle, Female - 6 Position	
	0840059	1	Boot 6 Position	
	4460465	2	Socket, Female	
	4460944	9	Socket, Female (Gold)	
	4460466	1	Plug, Sealing	
101C	4460754	1	Connector -14 Position	
	4460493	1	Cap, Dust	
	3730119	1	Resistor	
	4460465	4	Socket, Female	
	4460944	3	Socket, Female (Gold)	
	4460466	5	Plug, Sealing	
102	1380158	A/R	Retainer	
103	1320318	A/R	Clamp, Hose (1930ES/2646ES/3246ES Only - Not Shown)	
104	0100048	A/R	Grease, Dielectric	
105	4740545	A/R	Washer, Spec. Cable	
106		1	Chassis Harness Options:	
		Ref.	Note: Connection at contactor relay may need changed to match relay currently on machine.	
	Use 4923380		1930ES/2030ES/2630ES (was p/n 4923194 & 4923335)	C
	Use 4923381		2646ES/3246ES (was p/n 4923195 & 4923336)	B
			Wiring Diagram Options:	
	4933315		USA Built Machines S/N 0200135154 to S/N 0200138063 & Belgium Built Machines S/N 1200004293 to S/N 1200004866 (Note: This is the wiring diagram for chassis harness p/n 4923194/4923195)	D
	4933344		USA Built Machines S/N 0200138063 to S/N 0200152825 & Belgium Built Machines S/N 1200004866 to S/N 1200008481 (Note: This is the wiring diagram for chassis harness p/n 4923335/4923336)	C
	3990010	2	Diode 6 Amp (Not Shown)	
106A	4360607	2	Switch, Limit	
106B	4460320	1	Plug, Male - 2 Position (Note: Connection to this plug used only when footswitch or battery interlock options are required)	
	4460226	2	Socket, Female	
106C	4460321	1	Plug, Male - 4 Position	
	4460227	4	Pin, Male	
106D	4460321	1	Plug, Male - 4 Position	
	4460226	1	Socket, Female	
106E	Not Used			
106F	4460539	1	Plug, Male - 3 Position	
	4460465	3	Socket, Female	
106G	4460539	1	Plug, Male - 3 Position	
	4460465	2	Socket, Female	
106H	4460648	1	Connector, Anderson	
106J	4460761	1	Receptacle, Female - 4 Position	
	4460227	4	Pin, Male	

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FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
106K	4460814	1	Plug, Male - 40 Position	
	4460465	31	Socket, Female	
	4460944	9	Socket, Female (Gold)	
	0840057	1	Boot	
106L	4460870	1	Plug, Male - 12 Position	
	4460877	4	Pin, Male	
106M	4460891	1	Plug, Male - 2 Position	
	4460465	2	Socket, Female	
106N	4460894	1	Plug, Male - 6 Position	
	4460465	6	Socket, Female	
	0840059	1	Boot	
106P	4460897	3	Receptacle, Female - 2 Position	
	4460464	6	Pin, Male	
106R	4460931	1	Receptacle, Female - 8 Position	
	4460464	4	Pin, Male	
106S	4460931	1	Receptacle, Female - 8 Position	
	4460943	7	Pin, Male (Gold)	
	0840058	1	Boot	
106T	4460930	1	Plug, Male - 8 Position	
	4460466	1	Seal, Plug	
106U	4460899	1	Connector, Female - 6 Position	
	4460464	6	Pin, Male	
107	4923270	1	Lift Cylinder Harness	B
107A	4460499	4	DIN Connector	
107B	4460894	1	Plug, Male - 6 Position	
	4460465	6	Socket, Female	
	0840059	1	Boot	
108	4923271	1	Power to Pump Motor Harness	A
108A	Not Available	1	Connector, Anderson	
108B	0840041	2	Boot, Terminal (Red)	
109	0760610	2	Screw M6 x 20mm	
110	3290607	2	Nut M6	
111 to 117	Not Used			
118		1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable (Includes Items 119-125)	
	1001104466		1930ES (was p/n 2915251)	
	1001104467		2030ES/2630ES (was p/n 2915252)	
	1001104468		2646ES/3246ES (was p/n 2915253)	
119	4460930	1	Plug, Male - 8 Position	
	4460465	4	Socket, Female	
	4460944	3	Socket, Female (Gold)	
	4460466	1	Plug, Sealing	
	0840061	1	Boot, 8 Position Plug	
	2820028	A/R	Heat Shrink	
120		1	Coiled Cable Harness Assembly Options:	
	1001096705		1930ES (was p/n 2915251)	
	1001096706		2030ES/2630ES (was p/n 2915252)	
	1001096707		2646ES/3246ES (was p/n 2915253)	

SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
121	4460931	1	Receptacle, Female - 8 Position	
	4460464	4	Pin, Male	
	4460943	3	Pin, Male (Gold)	
	4460466	1	Plug, Sealing	
	0840058	1	Boot, 8 Position Receptacle	
	2820026	A/R	Insulation, Clear Tubing	
	2820028	A/R	Heat Shrink	
	4460754	1	Plug, Male -14 Position	
122	4460465	4	Socket, Female	
	4460944	3	Socket, Female	
	4460466	4	Plug, Sealing	
	3730119	1	Resistor	
	4460493	1	Cap, Dust	
	2820026	A/R	Insulation, Clear Tubing	
	1001094175	A/R	Clamp, Post	
123	4010617	A/R	Screw M6 x 45mm	
	3290606	A/R	Nut, Acorn M6	
	1001094180	4	Clamp, Rail	
124	0760606	4	Screw M6 x 12mm	
	3290606	4	Nut, Acorn M6	
	1001104465	A/R	Hook, Corner	
125	4010617	A/R	Screw M6 x 45mm	
	3290606	A/R	Nut, Acorn M6	
		Ref.	GROUND CONTROL BOX COMPONENTS	
201	4922865	1	Control Box Harness	E
201A	4460265	1	Plug, Male - 9 Position	
	4460268	9	Socket, Female	
201B	4460761	2	Receptacle, Female - 4 Position	
	4460267	8	Pin, Male	
201C	Not Available	1	Grommet (Molded in Part of Harness)	
201D	Use 4460418	1	Receptacle, Female - 3 Position	
	Use 4460419	3	Terminal	
		Ref.	BATTERY CABLE KITS	
	2902239	Ref.	1930ES	G
	2902248	Ref.	2030ES/2630ES/2646ES/3246ES	H
301		1	Cable, Battery (Contactor & LH Battery to Disconnect)	D
	1060997		1930ES	
	1061008		2030ES/2630ES/2646ES/3246ES	
301A	4460618	1	Connector, Anderson	D
	Not Available	1	Handle, Connector	
301B	Not Available	2	Boot, Terminal (Red)	
302	1060998	2	Cable, Battery (Battery Positive to Battery Negative)	D
302A	Not Available	2	Boot, Terminal (Black) (1 Per Cable Assembly)	

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FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
302B	0840041	2	Boot, Terminal (Red) (1 Per Cable Assembly)	
303		1	Cable, Battery (RH Batteries to Disconnect)	
	1060999		1930ES	D
	1061010		2030ES/2630ES/2646ES/3246ES	D
303A	4460618	1	Connector, Anderson	
303B	Not Available	1	Boot, Terminal (Red)	
303C	Not Available	1	Boot, Terminal (Black)	
304		1	Cable, Battery (LH Battery to Connector B-)	
	1061000		1930ES	D
	1061009		2030ES/2630ES/2646ES/3246ES	D
304A	Not Available	1	Boot, Terminal (Black)	
304B	Not Available	1	Boot, Terminal (Red)	
305	1061001	1	Cable, Battery (Contactor to Controller B+)	C
305A	Not Available	1	Boot, Terminal (Black)	
305B	0840041	1	Boot, Terminal (Red)	
306 to 307	Not Used			
308	0840060	8	Boot, Terminal (Gray) (Covers only the Battery Terminal Base)	
309		1	Cable, Battery (Power to Pump Motor)	
	4923272		1930ES	A
	4923275		2030ES/2630ES/2646ES/3246ES	A
309A	Not Available	1	Connector, Anderson	
309B	0840041	1	Boot, Terminal (Red)	
		Ref.	STANDARD HARNESSSES	
401	See Note	2	Drive Motor/Brake Harness (was p/ns 7024770 & 7024775)	
		Ref.	Note: Refer to Figure 1-3 to identify cable.	
401A	4460891	2	Plug, Male - 2 Position (1 Per Harness)	
	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D	Not Available	1	Connector, Butt (Purchase Locally)	
			Note: P/N 7024770 Harness is equipped with a connector at this location. When replacing, clip connector and butt splice to Drive Harness from opposite side.	
402		Ref.	Battery Charger Components	
402A			DC Harness/Cord Set Options:	
	7022953		MAC Charger	
	Not Available		Delta-Q Charger	
402B	4460648	1	Plug, Anderson	
402C		1	PC Board Internal Harness Options (Not Shown):	
	7022954		MAC Charger	
	Not Available		Delta-Q Charger	
402D		1	Harness with Connector Options:	
	7022955		MAC Charger	
	Not Available		Delta-Q Charger	

SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
402E	4460899	1	Connector, Female - 6 Position	
	4460464	6	Pin, Male	
402F		1	Harness with Connector Options: (Note: Connection to this plug used only when battery interlock options are required)	
	7022956		MAC Charger	
	Not Available		Delta-Q Charger	
402G	4460424	1	Connector, Female - 2 Position (Note: Connection to this plug used only when battery interlock options are required)	
	4460227	2	Pin, Male	
402H	Not Available	1	AC Harness/Cord Set	
402J		1	Connector, Female Options:	
	7018583		MAC Charger	
	Not Available		Delta-Q Charger	
403		1	Cable, AC Power to Charger Options:	
	1060688		Factory Supplied Plug	
	1060689		Locally Supplied Plug	
404	4360502	1	Proximity Sensor and Harness (Separate Harness Not Available)	
404A	4460897	1	Receptacle, Female - 2 Position	
	4460464	2	Pin, Male	
405	1001092354	1	Rotary Angle Sensor and Harness (Separate Harness Not Available) (was p/n 4360526)	
405A	4460536	1	Receptacle, Female - 3 Position	
	4460464	3	Pin, Male	
406	4360539	1	Toggle Switch and Harness (No Separate Harness Available)	
406A	Not Available	1	Plug, Male - 3 Position	
407	Not Available	1	Joystick Harness	
407A	4460266	1	Receptacle, Female - 9 Position	
	4460226	8	Socket, Female	
408	Not Used			
409	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete Brake)	
	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
	Not Available	4	Pin, Male (2 Per Harness)	
410	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	
	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
	Not Available	4	Pin, Male (2 Per Harness)	
		Ref.	OPTIONAL HARNESSES	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
	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)	
	4460465	2	Socket, Female (2 Per Harness)	

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FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
503		Ref.	Platform Electrical Outlet Components	H E
	0272839	Ref.	ANSI Spec	
	0272843	Ref.	ANSI Export/Australian/CE Specs	
		1	Decal - AC Power	
	1703464		ANSI Spec	
503A	3252507		ANSI Export/Australian/CE Specs	
		A/R	Box, Switch Options:	
	0861731	1	Poly Box	
	Not Available	0	Switch Box (ANSI Export/Australian/CE Spec Machines) (Purchase Locally)	
		A/R	Hardware Options:	
503B	4010408	4	Screw M4 x 16mm	
	3290405	4	Locknut M4	
		A/R	Cover Options:	
	1671207	1	ANSI Spec	
	Not Available	0	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503C		A/R	Connector, Strain Relief Options:	
	4460662	1	ANSI Spec	
	Not Available	0	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503D		A/R	Receptacle, Electrical Options:	
	4460346	1	ANSI Spec	
	Not Available	0	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503E		A/R	Plug, Male Options:	
	4460138	1	ANSI Spec	
	Not Available	0	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503G	4460315	1	Terminal, Spade (Not Shown)	

	2902431	1	Receptacle Box Kit (Includes Poly Box, Switch Cover, Receptacle & Strain Relief Connector)	
504			-----	E
	4922944	1	Brake Disconnect Harness	
	1060680	15ft/2.7m	Cable, Electrical 18/2	
		Ref.	USA Built Machines	
504A	4360613	1	Switch, Limit	
		Ref.	Belgium Built Machines S/N 1200004293 to 1200004638	
504B	2560181	1	Handle	
504C	4360387	1	Switch, Push Button	
504D	4460633	1	Connector, Strain Relief	
		Ref.	Belgium Built Machines S/N 1200004638 to 1200008481	
504E	4360613	1	Switch, Limit	
	4240003	1	Strap, Cinch (Not Shown)	

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FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
505		Ref.	Inverter Electrical Components (See Section 10 for other Components)	
	0272876	Ref.	1930ES	B
	0273070	Ref.	2030ES/2630ES	B
	0273071	Ref.	2646ES/3246ES	B
505A	1061037	1	Cable, Power - DC (8Ga)	B
505B	4460648	1	Connector, Anderson (50Amp)	
505C	Not Available	3ft/1m	Cable, Power - DC (8Ga)	
505D	4460648	1	Connector, Anderson (50Amp)	
505E	Not Available	5ft/1.5m	Cable Electrical - 14/3	
505F	4460205	1	Plug, Male 110GFI	
505G	Not Available	5ft/1.5m	Cable, Power	
505H	4360482	1	Switch, Toggle	
505J	4922912	1	Harness, Power	A
		Ref.	TOOLS FOR SERVICE (NOT SHOWN)	
	7002821	1	Crimper, Wire	
	7002823	1	Extractor, Pin - Universal	
	4460467	A/R	Extractor, Pin #16 Gauge	
	4460510	A/R	Extractor, Pin #12 Gauge	
	7002828	1	Stripper, Wire	
	2901443	1	Analyzer Kit	
	1600244	1	Analyzer	
	1060633	1	Cable, Analyzer	
	4460321	2	Plug, Male - 4 Position	
	4460226	8	Socket, Female	
	1001137005	1	Software Cables Kit	

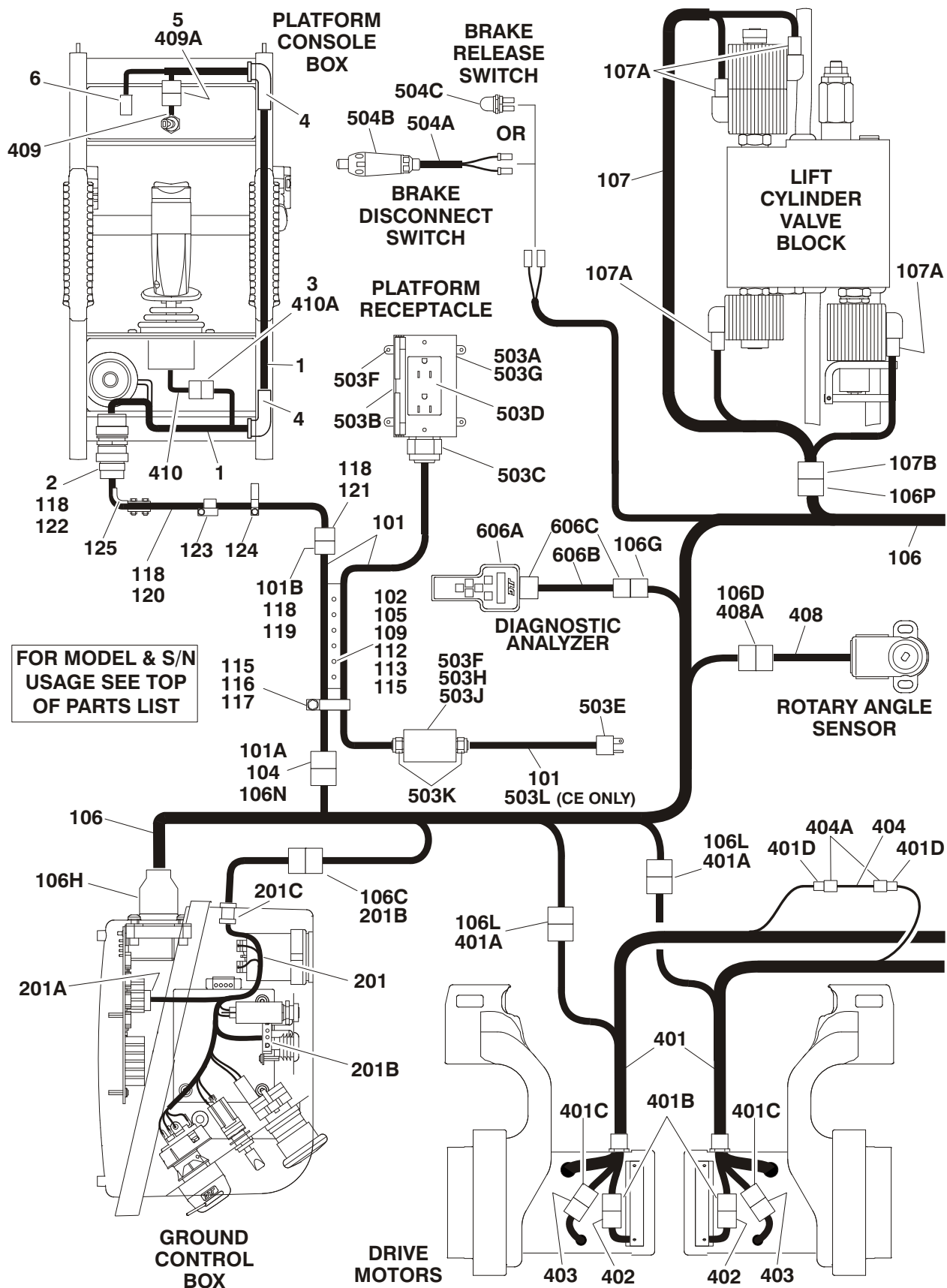
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FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST) (CONTINUED)

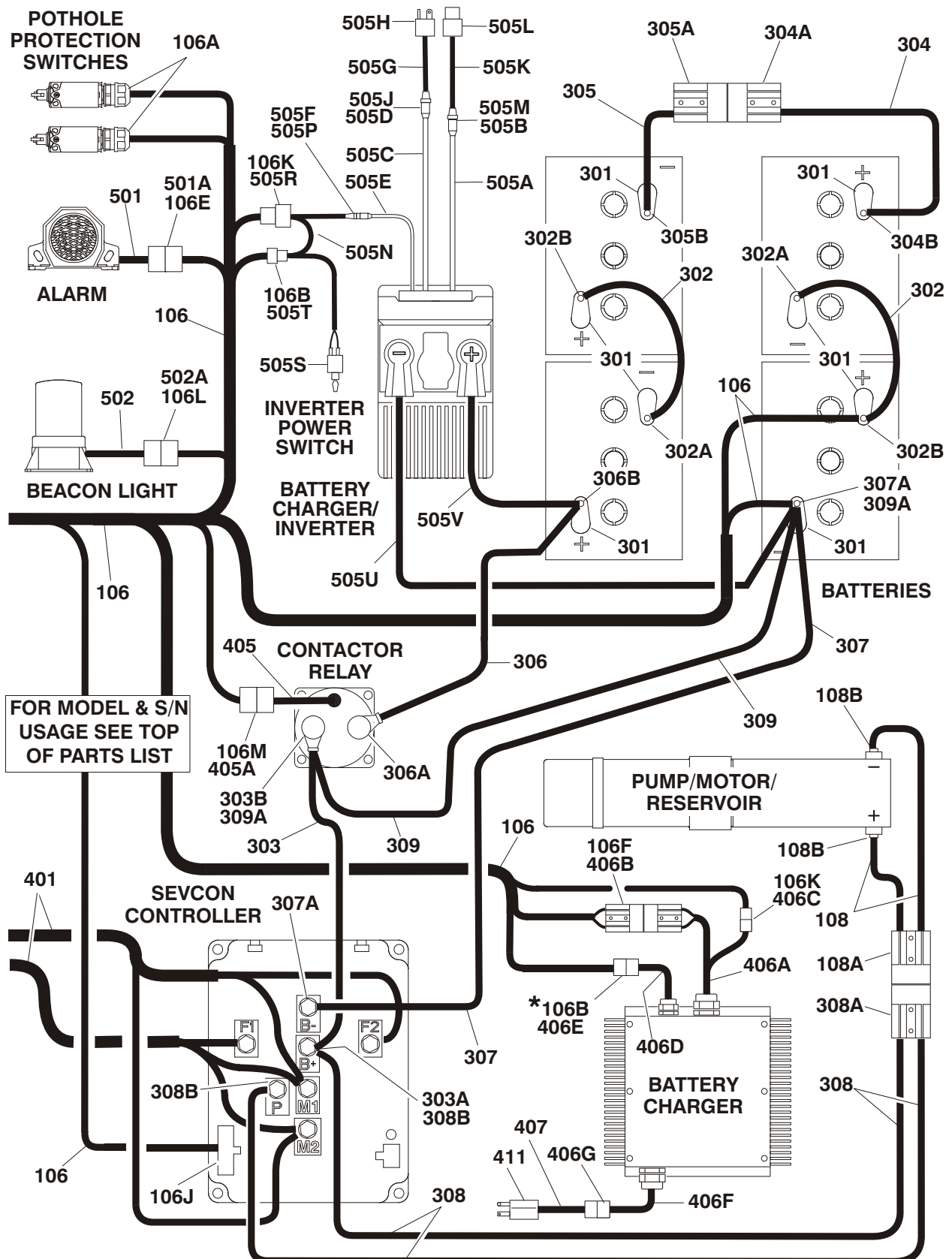
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)



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

SECTION 7 ELECTRICAL

FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	ILLUSTRATION & PARTS LIST USAGE:	
		Ref.	1930ES USA Built Machines S/N 0200150266 to S/N 0200152825	
		Ref.	1930ES Belgium Built Machines S/N 1200007882 to S/N 1200008481	
		Ref.	2646ES/3246ES USA Built Machines S/N 0200151606 to S/N 0200152825	
		Ref.	2646ES/3246ES Belgium Built Machines S/N 1200008265 to S/N 1200008481	
		Ref.	CONSOLE BOX COMPONENTS	
1	4922870	1	Platform Box Harness	B
2	4461016	1	Connector - 14 Position	
	4460464	5	Pin, Male	
	4460466	9	Plug, Sealing	
	4460496	1	Lockwasher	
	4460497	1	Nut, Panel	
3	4460265	1	Plug, Male - 9 Position	
	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	
	0274972	Ref.	1930ES (ANSI, ANSI Export, Japanese Spec & UL Specs)	H
	0275541	Ref.	1930ES (Australian & CE Specs)	F
	0274975	Ref.	2646ES/3246ES (ANSI, ANSI Export, Japanese Spec & UL Specs)	H
	0275544	Ref.	2646ES/3246ES (Australian & CE Specs)	F
101	See Note	1	Platform to Ground Harness Options: 1930ES (was p/n 4933218 & 4923587) ANSI, ANSI Export, Japanese & UL Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094154 & item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094154. See Additional notes above Item 101A.) Australian & CE Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094332 & item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094332. See Additional notes above Item 101A.)	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
101 Continued	See Note		2646ES/3246ES (was p/n 4923221 & 4923590) ANSI, ANSI Export, Japanese & UL Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094157 & item 118 p/n 1001104468. For Platform to Ground Cable purchase only p/n 1001094157. See Additional notes above Item 101A.) Australian & CE Specs (Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094335 & item 118 p/n 1001104468. For Platform to Ground Cable purchase only p/n 1001094335. See Additional notes above Item 101A.) Ref. Note: If machine is equipped with platform rail padding limit switches harness p/n 4923250, replace with p/n 4923632 when installing complete Ground to Platform Control Box Harness. Ref. Note: If machine is equipped with overload sensing harness p/n 4922908, replace with p/n 4923228 when installing complete Ground to Platform Control Box Harness. Ref. Note: Items 101A-101C are Components for Original Equipment Platform to Ground Cable. See Items 119-122 if equipped with Replacement Coiled Harness Cable.	
101A	4460930	1	Plug, Male - 8 Position	
	4460465	4	Socket, Female	
	4460944	3	Socket, Female (Gold)	
	4460466	1	Plug, Sealing	
	0840061	1	Boot 8 Position Plug	
	2820026	A/R	Insulation, Clear Tubing	
	2820028	A/R	Heat Shrink	
101B	4460930	1	Plug, Male - 8 Position	
	4460465	4	Socket, Female	
	4460944	3	Socket, Female (Gold)	
	4460466	1	Plug, Sealing	
	0840061	1	Boot 8 Position Plug	
	2820026	A/R	Insulation, Clear Tubing	
	2820028	A/R	Heat Shrink	
102	1380158	A/R	Retainer	
103	1320318	A/R	Clamp, Hose (Not Shown)	
104	0100048	A/R	Grease, Dielectric	
105	4740545	A/R	Washer, Special Cable	
106		1	Chassis Harness Options:	
	4923449		1930ES	E
	4923450		2646ES/3246ES	D
	4933351		Wiring Diagram - Chassis	C
	3990013	2	Diode 1 Amp/400V (Not Shown)	
106A	Use 1001109345	2	Limit Switch Kit (was p/n 4360633)	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
106B	4460320	1	Plug, Male - 2 Position (Note: Connection to this plug used only when footswitch or battery interlock options are required)	
	4460226	2	Socket, Female	
106C	4460321	1	Plug, Male - 4 Position	
	4460227	4	Pin, Male	
106D	4460539	1	Plug, Male - 3 Position	
	4460465	3	Socket, Female	
106E	4460539	1	Plug, Male - 3 Position	
	4460465	2	Socket, Female	
106F	4460648	1	Connector, Anderson	
106G	4460761	1	Receptacle, Female - 4 Position	
	4460227	4	Pin, Male	
106H	4460814	1	Plug, Male - 40 Position	
	4460465	31	Socket, Female	
	4460944	6	Socket, Female (Gold)	
	0840057	1	Boot	
106J	4460870	1	Plug, Male - 12 Position	
	4460877	4	Pin, Male	
106K	4460894	1	Plug, Male - 6 Position	
	4460465	4	Socket, Female	
	0840059	1	Boot	
106L	4460897	3	Receptacle, Female - 2 Position	
	4460464	6	Pin, Male	
106M	4460897	1	Receptacle, Female - 2 Position	
	4460465	2	Socket, Female	
106N	4460931	1	Receptacle, Female - 8 Position	
	4460464	4	Pin, Male	
	4460943	3	Pin, Male (Gold)	
	0840058	1	Boot	
106P	4460899	1	Connector, Female - 6 Position	
	4460464	6	Pin, Male	
107	4923350	1	Lift Cylinder Harness	C
107A	4460891	4	Plug, Male - 2 Position	
	4460465	8	Socket, Female	
107B	4460894	1	Plug, Male - 6 Position	
	4460465	6	Socket, Female	
	0840059	1	Boot	
108	4923271	1	Power to Pump Motor Harness	
108A		1	Connector, Anderson Options:	
	Not Available		Red	
	Not Available		Gray	
108B	0840041	2	Boot, Terminal (Red)	
109	0760615	A/R	Screw M6 x 35mm	
110	0903339	1	Bracket, Battery Connector (Not Shown) (1930ES Only)	
111			Battery Cable Kit Options (See Item 301- 309 for Breakdown)	
	2902476		1930ES	
	2902507		2646ES/3246ES	
112	3290607	4	Nut M6	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
113	4811700	2	Flatwasher M6	
114	Not Used			
115		A/R	Locknut Options:	
	3291005		Locknut M10 (1930ES)	
	3290605		Locknut M6 (2646ES/3246ES)	
116		A/R	Screw Options:	
	3900351		Screw, Button Head M10 x 30mm (1930ES)	
	4031713		Capscrew, Socket Head M6 x 45mm (2646ES/3246ES)	
117		A/R	Flatwasher Options:	
	4812000		Flatwasher M10 (1930ES)	
	4811700		Flatwasher M6 (2646ES/3246ES)	
118		1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable (Includes Items 119-125)	
	1001104466		1930ES (was p/n 2915251)	A
	1001104467		2030ES/2630ES (was p/n 2915252)	A
	1001104468		2646ES/3246ES (was p/n 2915253)	A
119	4460930	1	Plug, Male - 8 Position	
	4460465	4	Socket, Female	
	4460944	3	Socket, Female (Gold)	
	4460466	1	Plug, Sealing	
	0840061	1	Boot, 8 Position Plug	
	2820028	A/R	Heat Shrink	
120		1	Coiled Cable Harness Assembly Options:	
	1001096705		1930ES (was p/n 2915251)	A
	1001096706		2030ES/2630ES (was p/n 2915252)	A
	1001096707		2646ES/3246ES (was p/n 2915253)	A
121	4460931	1	Receptacle, Female - 8 Position	
	4460464	4	Pin, Male	
	4460943	3	Pin, Male (Gold)	
	4460466	1	Plug, Sealing	
	0840058	1	Boot, 8 Position Receptacle	
	2820026	A/R	Insulation, Clear Tubing	
	2820028	A/R	Heat Shrink	
122	4460754	1	Plug, Male -14 Position	
	4460465	4	Socket, Female	
	4460944	3	Socket, Female	
	4460466	4	Plug, Sealing	
	3730119	1	Resistor	
	4460493	1	Cap, Dust	
	2820026	A/R	Insulation, Clear Tubing	
123	1001094175	A/R	Clamp, Post	
	4010617	A/R	Screw M6 x 45mm	
	3290606	A/R	Nut, Acorn M6	
124	1001094180	4	Clamp, Rail	
	0760606	4	Screw M6 x 12mm	
	3290606	4	Nut, Acorn M6	
125	1001104465	A/R	Hook, Corner	
	4010617	A/R	Screw M6 x 45mm	
	3290606	A/R	Nut, Acorn M6	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	GROUND CONTROL BOX COMPONENTS	
201	4922865	1	Control Box Harness	E
201A	4460265	1	Plug, Male - 9 Position	
	4460268	9	Socket, Female	
201B	4460761	2	Receptacle, Female - 4 Position	
	4460267	8	Pin, Male	
201C	Not Available	1	Grommet (Molded in Part of Harness)	
201D	Use 4460418	1	Receptacle, Female - 3 Position	
	Use 4460419	3	Terminal	
		Ref.	BATTERY CABLE KITS	
	2902476	Ref.	1930ES	B
	2902507	Ref.	2646ES/3246ES	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	1061001	1	Cable, Battery (Contactor to Controller B+)	D
303A	Not Available	1	Boot, Terminal (Black)	
303B	Not Available	1	Boot, Terminal (Red)	
304		1	Cable, Battery (LH Battery to Disconnect)	
	4923365		1930ES	A
	4923401		2646ES/3246ES	A
304A		1	Connector, Anderson Options:	
	Not Available		1930ES Single Pole (Purchase p/n 4923365)	
	4460618		2646ES/3246ES Two Pole (Red)	
	Use 2560205	1	Handle, Connector (All Models Except 1930ES)	
304B	Not Available	1	Boot, Terminal (Red)	
305		1	Cable, Battery (RH Batteries to Disconnect)	
	4923366		1930ES	A
	4923402		2646ES/3246ES	A
305A		1	Connector, Anderson Options:	
	Not Available		1930ES Single Pole (Purchase p/n 4923366)	
	4460618		2646ES/3246ES Two Pole (Red)	
305B	Not Available	1	Boot, Terminal (Black)	
306		1	Cable, Battery (RH Battery to Contactor)	
	4923367		1930ES	A
	4923406		2646ES/3246ES	A
306A	Not Available	1	Boot, Terminal (Black)	
306B	Not Available	1	Boot, Terminal (Red)	
307		1	Cable, Battery (LH Battery to Connector B-)	
	Not Required		1930ES	
	4923409		2646ES/3246ES	A
307A	Not Available	1	Boot, Terminal (Black) (2646ES/3246ES)	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
308	4923272	2	Cable, Battery (Power to Pump Motor)	C D
	4923410		1930ES	
308A	Not Available	1	2646ES/3246ES	A
	Not Available		Connector, Anderson Options:	
308B	0840041	1	Red	
309	Not Required	1	Gray	
			Boot, Terminal (Red)	A
309A	Not Available	2	Cable, Battery (LH Battery to Contactor)	
			1930ES	
			2646ES/3246ES	A
			Boot, Terminal (Red) (1930ES)	
		Ref.	STANDARD HARNESSSES	
401	See Note	2	Drive Motor/Brake Harness (was p/ns 7024770 & 7024775)	A
		Ref.	Note: Refer to Figure 1-3 to identify cable.	
401A	4460891	2	Plug, Male - 2 Position (1 Per Harness)	
	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D	Not Available	A/R	Connector Options:	
		1	USA Built Machines - Use Butt Connector (Purchase Locally)	
			Note: P/N 7024770 Harness is equipped with a connector at this location. When replacing, clip connector and butt splice to Drive Harness from opposite side.	A
	4461261	1	Belgium Built Machines - Use Plug, Male - 1 Position	
	4460509	1	Belgium Built Machines - Use Terminal	
402	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete Brake)	
	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
	Not Available	4	Pin, Male (2 Per Harness)	
403	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	
	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
	Not Available	4	Pin, Male (2 Per Harness)	
404	4923602	2	Harness, Field Wire Connection	
404A	4461260	2	Receptacle, Female - 1 Position	A
	4460508	2	Terminal	
405	3740150	1	Contactor Relay Harness (Includes Relay)	
405A	4460891	1	Plug, Male - 2 Position	
	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	
	4460464	6	Pin, Male	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

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)	
	4460227	2	Pin, Male	
406F	Not Available	1	AC Harness/Cord Set	
406G	Not Available	1	Connector, Female	
407		1	Cable, AC Power to Charger Options:	
	1060688		Cable with Factory Supplied Plug	
	1060689		Cable without Plug (Locally Supplied Plug)	
408	1001092354	1	Rotary Angle Sensor and Harness (Separate Harness Not Available) (was p/n 4360526)	
408A	4460536	1	Receptacle, Female - 3 Position	
	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	
	4460226	8	Socket, Female	
411		1	Plug Options:	
	Not Available		ANSI Spec Plug (Use p/n 1060688)	
	Not Available		Australian & Japanese Specs (Purchase Locally)	
			CE Spec Options:	
	0275666	Ref.	IEC Yellow Receptacle Installation	A
	4461196		Receptacle, IEC Yellow	
	0276667	Ref.	IEC Blue Receptacle Installation	A
	4661199		Receptacle, IEC Blue	
	0275665	Ref.	AFSINT 107 Keyed Ground Receptacle Installation	A
	4661249		Receptacle, AFSINT 107 Keyed Ground	
	0275663	Ref.	CEE 7 Post Ground Receptacle Installation	A
	4661202		Receptacle, CEE 7 Post Ground	
	0275664	Ref.	CEE 7 Side Ground Receptacle Installation	A
	4661205		Receptacle, CEE 7 Side Ground	
		Ref.	OPTIONAL HARNESSES	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
	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)	
	4460465	2	Socket, Female (2 Per Harness)	
503		Ref.	Platform Electrical Outlet Components	
		Ref.	ANSI, ANSI Export, CSA, Japanese & UL Specs Options:	
	0272839	Ref.	110V with Receptacle & Plug	H
	0272843	Ref.	220V without Receptacle & Plug (Locally Supplied Components)	F

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
503 Cont'd		Ref.	Australian Spec Options:	
	0272843	Ref.	220V without Receptacle & Plug (Locally Supplied Components)	F
		Ref.	CE Spec Options:	
	Use 0275487	Ref.	110V with IEC Yellow Receptacle & Plug & Circuit Breaker (1930ES was p/n 0275487/2646ES & 3246ES was p/n 0275520)	C
	0272843	Ref.	220V without Receptacle & Plug (Locally Supplied Components) (All Models)	F
	Use 0275488	Ref.	220V with IEC Blue Receptacle & Plug & Circuit Breaker (1930ES was p/n 0275488/2646ES & 3246ES was p/n 0275521)	C
	Use 0275486	Ref.	220V with AFSINT 107 Keyed Ground Receptacle & Plug & Circuit Breaker (1930ES was p/n 0275486/2646ES & 3246ES was p/n 0275519)	C
	Use 0275472	Ref.	220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (2x4 Box) (1930ES was p/n 0275472/2646ES & 3246ES was p/n 0275517)	C
	Use 0275489	Ref.	220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (70x70 Box) (1930ES was p/n 0275489/2646ES & 3246ES was p/n 0275522)	D
	Use 0275485	Ref.	220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (2x4 Single Box) (1930ES was p/n)0275485/2646ES & 3246ES was p/n 0275518)	C
	1001096628	Ref.	220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (2x4 Dual Boxes)	A
			Note: Qty shown is for single Receptacle Box. Double Qty listed for Dual Receptacle Boxes.	
	Use 0275490	Ref.	220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (70x70 Box) (1930ES was p/n 0275490/2646ES & 3246ES was p/n 0275523)	D
		1	Decal - AC Power (Not Shown)	
503A	1703464		110V	
	3252507		220V	
		A/R	Box, Switch Options:	
	0861731	1	0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
	Not Available	0	0272843 Installation (Purchase Locally)	
	4460315	1	0272839 Installation (Terminal, Spade) (Not Shown)	
	0861781	1	0275487 & 0275488 Installations	
	See Note	1	0275774/0275775 Installations (Note: Was p/n 0861782 which is no longer available. Use p/n 1001100344 CEE 7 Side Ground Service Kit or p/n 1001100344 CEE 7 Post Ground Service Kit. Kits includes Box p/n 1001141967 & items 503B, 503D & 503E.)	
	1001141967	1	1001100343, 1001100344, 1001141970 & 1001141971 Service Kits	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
503B		A/R	Cover Options:	
	1671207	1	0272839 Installation	
	Not Available	0	0272843 Installation (Purchase Locally)	
	4461244	1	0275472 Installation (Includes Receptacle)	
	4461245	1	0275485 & 1001096628 Installations (Includes Receptacle)	
	4461246	1	0275486 Installation (Includes Receptacle)	
	4461198	1	0275487 Installation (Includes Receptacle)	
	4461201	1	0275488 Installation (Includes Receptacle)	
	Use 1001100343	1	0275489 Installation (Includes Receptacle) (was p/n 4461204 & 1001141971)	
	Use 1001100344	1	0275490 Installation (Includes Receptacle) (was p/n 4461207 & 1001141970)	
	1001141968	1	1001100343 & 1001141971 Service Kit	
	1001141969	1	1001100344 & 1001141970 Service Kit	
503C		A/R	Connector, Strain Relief Options:	
	4460662	1	0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
	Not Available	0	0272843 Installation (Purchase Locally)	
	4461257	1	0275487, 0275488, 0275489 & 0275490 Installations (90°)	
	4461258	1	0275487, 0275488, 0275489 & 0275490 Installations (Adapter)	
	4460633	1	0275520 & 0275521 Installations	
	4460428	1	0275522 & 0275523 Installations	
503D		A/R	Receptacle, Electrical Options:	
	4460346	1	0272839 Installation	
	Not Available	0	0272843 Installation (Purchase Locally)	
	4461244	1	0275472 Installation (Includes Cover)	
	4461245	1	0275485 & 1001096628 Installation (Includes Receptacle)	
	4461246	1	0275486 Installation (Includes Cover)	
	4461198	1	0275487 Installation (includes Cover)	
	4461201	1	0275488 Installation (Includes Cover)	
	Use 1001100343	1	0275489 Installation (Includes Receptacle) (was p/n 4461204 & 1001141971)	
	Use 1001100344	1	0275490 Installation (Includes Receptacle) (was p/n 4461207 & 1001141970)	
	1001141968	1	1001100343 & 1001141971 Service Kit	
	1001141969	1	1001100344 & 1001141970 Service Kit	
503E		A/R	Plug End Options:	
	4460138	1	0272839 Installation (Male)	
	Not Available	0	0272843 Installation (Purchase Locally)	
	4461202	1	0275472/0275489 Installations & 1001100343/1001141971 Service Kit (Male)	
	4461203	1	0275472/0275489 Installations & 1001100343/1001141971 Service Kit (Female)	
	4461205	1	0275485/1001096628 Installation & 1001100344/1001141970 Service Kit (Male)	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
503F	4461206	1	0275485/1001096628 Installation & 1001100344/1001141970 Service Kit (Female)	E
	4461249	1	0275486 Installation (Male)	
	4461250	1	0275486 Installation (Female)	
	4461196	1	0275487 Installation (Male)	
	4461197	1	0275487 Installation (Female)	
	4461199	1	0275488 Installation (Male)	
	4461200	1	0275488 Installation (Female)	
	4461202	1	0275489 Installation (Male)	
	4461203	1	0275489 Installation (Female)	
	4461205	1	0275490 Installation (Male)	
	4461206	1	0275490 Installation (Female)	
		A/R	Hardware Options:	
	4010405		Screw M4 x 10mm	
	4010408		Screw M4 x 16mm	
	4010612		Screw M6 x 16mm	
	4191706		Screw M6 x 12mm	
	4191708		Screw M6 x 20mm	
	0760619		Screw M6 x 55mm	
	3290405		Locknut M4	
503F	Continued	A/R	Hardware Options:	
	1001091102		Flatwasher M4 Oversize	
	4811700		Flatwasher M6	
503G		A/R	Bracket, Receptacle Box Mounting Options:	E
	Not Required	0	0272839, 0272843, 0275472, 0275485, 0275486 & 1001096628 Installations	
503H	0903569	1	0275487, 0275488, 0275489 & 0275490 Installations	
	0903484	1	1001096628 Installation (2nd Receptacle Box Only)	
	0903566	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec Installations Except 0272843 Installation)	
503J	01001096627	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec 1001096628 Installations)	
	Use 2902541	A/R	Circuit Breaker Box Assembly (Required Only on CE Spec Installations Except 0272843 Installation):	
503K		Ref.	Note: Original box assembly used one single large breaker which is no longer available. Purchase p/n 2902541 as replacement.	
			Parts for Replacement p/n 2902541 Box:	
	1001109475	1	Circuit Breaker - 16A	
	1001109482	1	Circuit Breaker - 30mA	
	4460957	1	Terminal Block	
	4460956	1	Barrier, Terminal Block	
	1001097150	1	Connector, Strain Relief (Required Only on CE Spec Installations Except 0272843 Installation)	
503L	1060908	55in/1.4m	Cable, Extension (Required Only on CE Spec Installations Except 0272843 Installation)	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
503M	1060908	55in/1.4m	Cable, Electrical (Required Only on CE Spec 1001096628 Installations) (Not Shown - Connects 2 Receptacle Boxes)	
	2902431	1	Receptacle Box Kit (110V GFI) (Includes Item 503A-503D) (0272839 Installation)	B
	0275216	1	Receptacle, Box & Plug Kit (110V IEC Yellow) (Includes Items 503A, 503B, 503C & Male 503E Plug End) (0275487 Installation)	1
	0275217	1	Receptacle, Box & Plug Kit (220V IEC Blue) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275488 Installation)	1
	0275452	1	Receptacle Box Kit (220V CEE 7 Post Ground with 2x4 Box) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275472 Installation)	1
	Use 1001141971	1	Receptacle, Box & Plug Kit (220V CEE 7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275489 Installation) (was p/n 0275218 & 1001141971)	B/A
	0275453	1	Receptacle Box Kit (220V CEE 7 Side Ground with 2x4 Box) (Includes Item 503A, 503B, 503D & Male 503E Plug End) (0275485 & 1001096628 Installation)	1
	Use 1001141970	1	Receptacle, Box & Plug Kit (220V CEE 7 Side Ground with 70x70 Box) (Includes Items 503A, 503B, 503D & 503E) (0275490 Installation) (was p/n 0275219 & 1001141970)	B/A
	0275454	1	Receptacle, Box & Plug Kit (220V AFSINT 107 Keyed Ground) (Includes Items 503A, 503B, 503D & Male 503E Plug End) (0275486 Installation)	1
	2902541	1	Circuit Breaker Box Kit (Includes Items 503J-503L) (Required Only on CE Spec Installations Except 0272843 Installation)	D
504		1	Brake Disconnect /Release Switch Components	
504A	4922944	1	Brake Disconnect Harness & Switch	E
	1060680	15ft/2.7m	Cable, Electrical 18/2	
	4240003	1	Strap, Cinch (Not Shown)	
504B	4360613	1	Switch, Limit	
504C	4360387	1	Brake Release Switch	
505		Ref.	Battery Charger/Inverter Components (ANSI & 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	Use 1001091479	1	AC Input Harness (was p/n 4923389)	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	D
505P	Not Available	1	Plug, Male - 8 Position (Conxall 6280-8SG-318)	

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
505R	4460899	1	Receptacle, Female - 6 Position	
	4460464	4	Pin, Male	
	4460466	2	Plug, Seal	
	3990010	1	Diode 6A/600V	
505S	4360336	1	Switch, Toggle	
505T	4460424	2	Receptacle, Female - 2 Position	
	4460267	2	Pin, Male	
505U	4923392	1	Cable, Battery + to Inverter +	A
505V	4923393	1	Cable, Battery – to Inverter –	A
		Ref.	TOOLS FOR SERVICE	
601	7002821	1	Crimper, Wire (Not Shown)	
602	7002823	1	Extractor, Pin - Universal (Not Shown)	
603	4460467	A/R	Extractor, Pin #16 Gauge (Not Shown)	
604	4460510	A/R	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	
	4460226	8	Socket, Female	
607	1001137005	1	Software Cables Kit (Not Shown)	

SECTION 7 ELECTRICAL

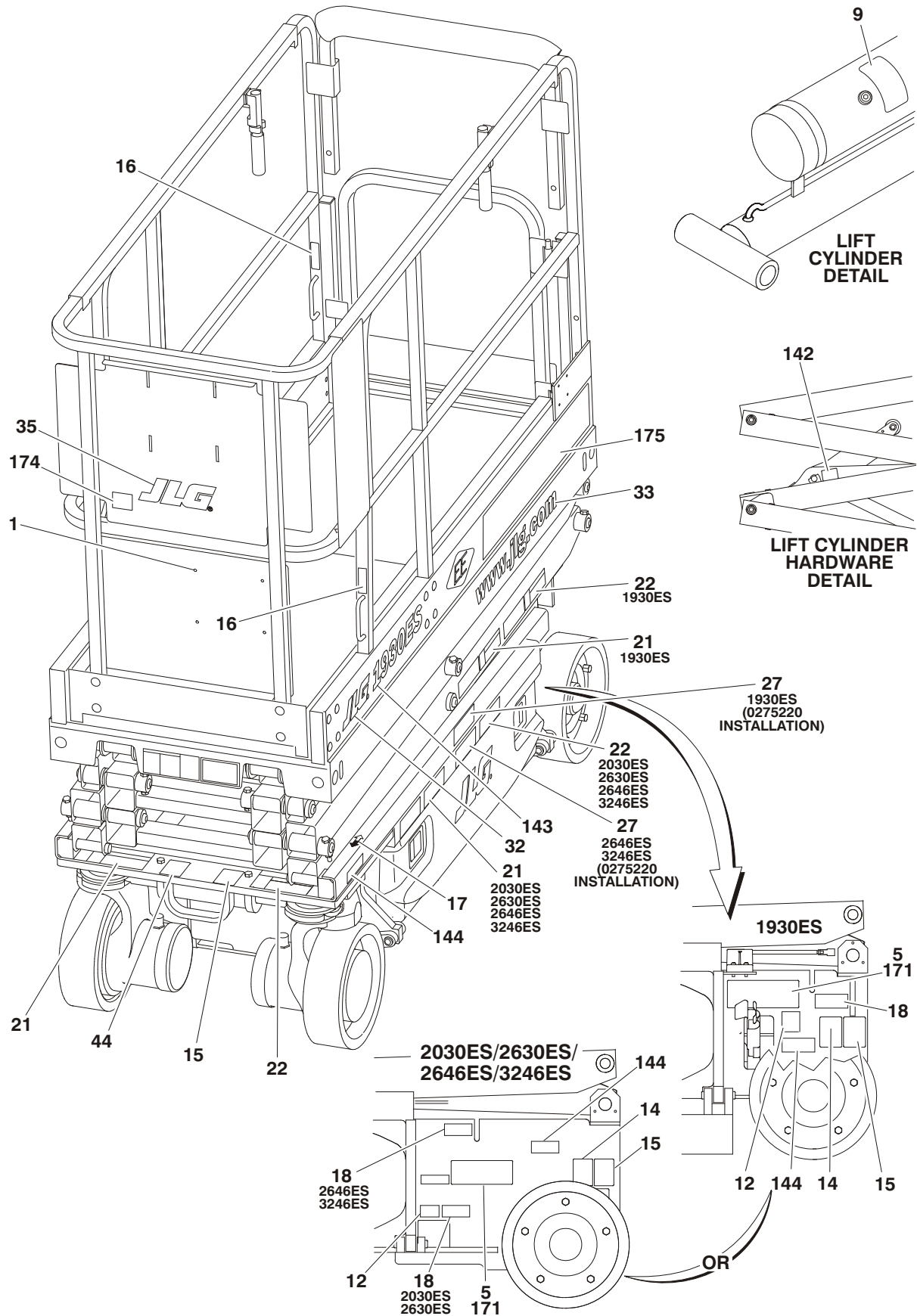
FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (FOR MODEL & S/N USAGE SEE TOP OF PARTS LIST)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

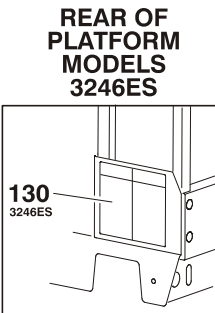
SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC)



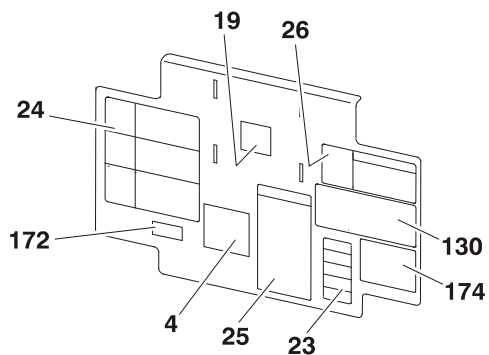
SECTION 8 DECALS



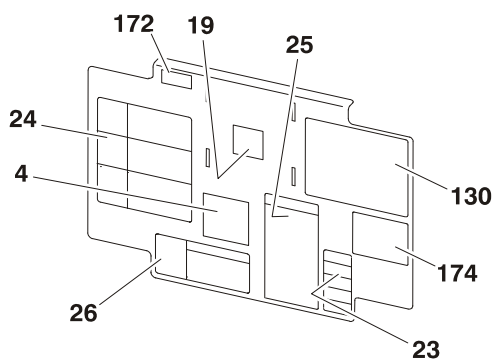
SECTION 8 DECALS

PLATFORM DECAL PANEL DETAILS

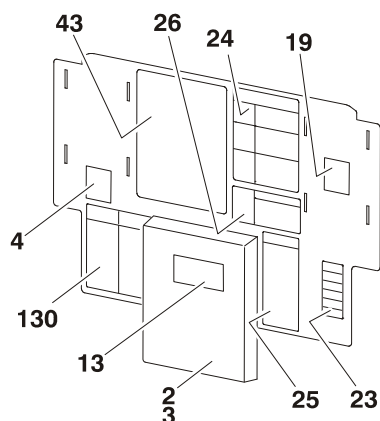
MODEL 1930ES



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 - ANSI SPEC	
		Ref.	1930ES	
	0272854	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	8
	0275220	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	3
	0272854	Ref.	2030ES/2630ES	7
		Ref.	2646ES/3246ES	
	0272854	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	8
	0275220	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	3
	0272870	Ref.	JLG Decals	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
3	1060279	1	Cable, Lanyard (0272854 Installation Only)	
4	1700584	1	Decal - Patent	
5	2080057	4	Fastener	
6	Not Used	1		
7	Not Available	1	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box)	
8	Not Used	1		
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	
20	Not Used			
21	1705694	4	Decal - Crushing Hazard	
22	1705695	4	Decal - Danger Electrocuton	
23	1705686	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocuton	
27	1703813	2	Decal - Warning Battery Vent	
28 to 31	Not Used			
32		2	Decal - JLG Options:	
	1705754		USA Built Machines S/N 0200135154 to S/N 0200148430 & Belgium Built Machines S/N 1200004293 to S/N 1200006154	
	1705781		USA Built Machines S/N 0200148430 to S/N 0200152825 & Belgium Built Machines S/N 1200006154 to S/N 1200008481	
33	1705687	2	Decal - Website (USA Built Machines S/N 0200135154 to S/N 0200137525 Only)	

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

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
34	Not Used			
35	1702773	1	Decal - JLG	
36 to 38	Not Used			
39		1	Decal - AC Power Options:	
	1703464		120-60Hz	
	3252507		220V-50/60Hz	
40 to 43	Not Used			
44	1701499	1	Decal - No Lift	

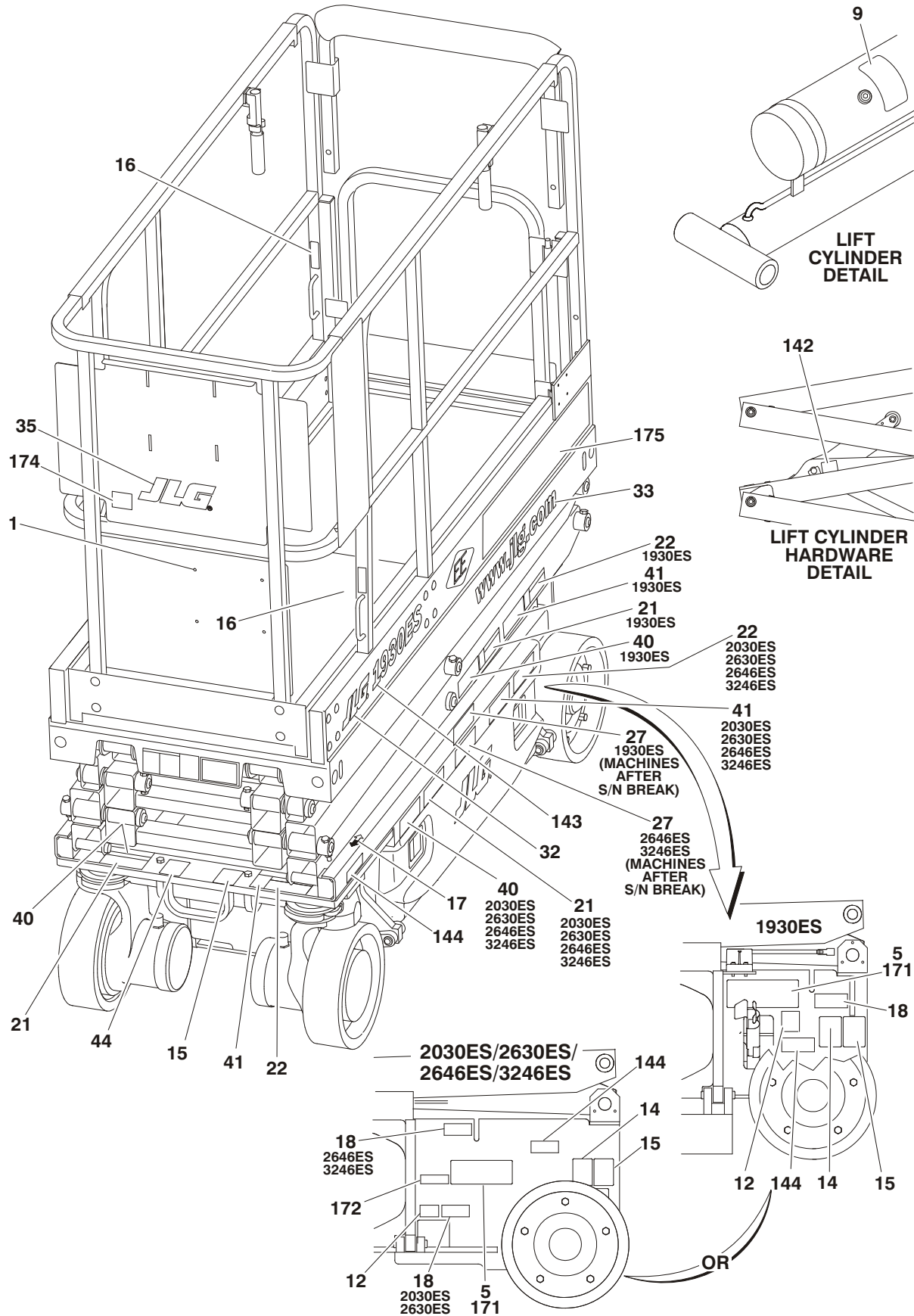
	2902267	1	Decal Kit 1 (Includes Items 9-19 & 44)	8
		1	Decal Kit 2 Options (Includes Items 21-27 & 39):	
	Use 2902522		0272854 Installation (was p/n 2902268)	
	2902522		0275220 Installation	2
	0010588	Ref.	DECAL OPTIONS	59
101 to 129	Not Used			
130		A/R	Decal - Capacity Options:	
			1930ES:	
	1705638	2	500lbs/227kg (Platform Box & Platform Entry Locations)	
	1705699	1	500lbs/227kg (Ground Control Box Location)	
	1705639	3	2030ES: 800lbs/363kg (All Locations)	
			2630ES:	
	1705941	1	Platform Console Box Decal - 500lb/227kg & 800lb/360kg (Located at Platform Console Box)	
	1705880	1	Platform Entry Decal - 500lb/227kg & 800lb/360kg	
	1705941	1	Ground Control Box - 500lb/227kg & 800lb/360kg	
	1705640	3	2646ES: 1000lbs/454kg	
	1705641	3	3246ES: 700lbs/317kg	
131 to 141	Not Used			
142	1001116915	1	Decal - Hardware Retention	
143		2	Decal - Model Designation Options:	
	1705642		1930ES	
	1705643		2030ES	
	1705644		2630ES	
	1705645		2646ES	
	1705646		3246ES	
144		4	Decal - Max Tire Load Options:	
	1705647		1930ES	
	1706310		2030ES/2630ES	
	1706311		2646ES/3246ES	
145 to 170	Not Used			
171	Not Available		Nameplate - Serial Number	
172 to 173	Not Used			
174	3251813	1	Decal - Made in USA	
175		2	Decal - Platform Color Options:	
	1705850		1930ES/2030ES/2630ES (was p/n 1705741, 1705742 & 1705849)	
	1705851		2646ES/3246ES (was p/n 1705743)	

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

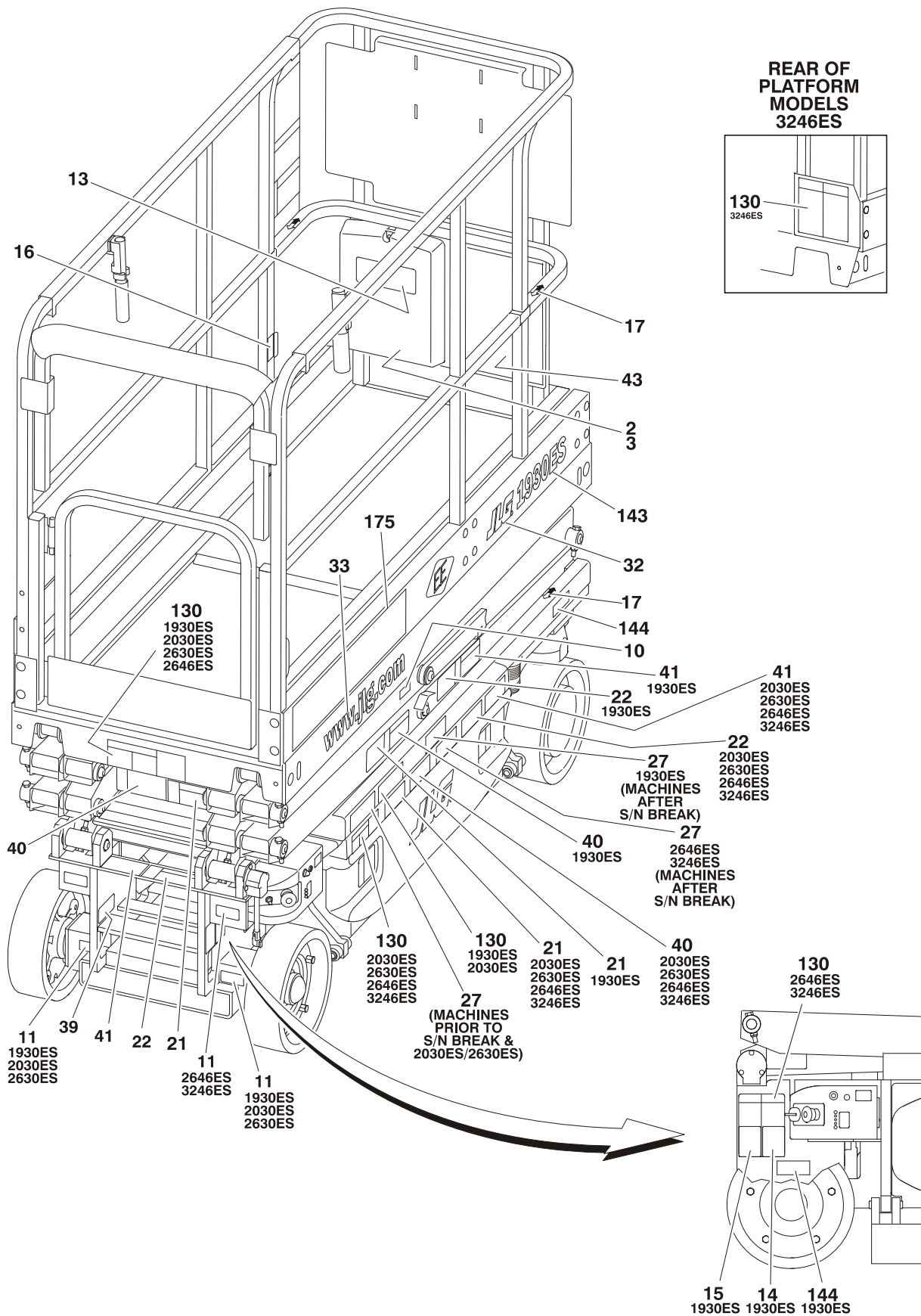
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 8 DECALS

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



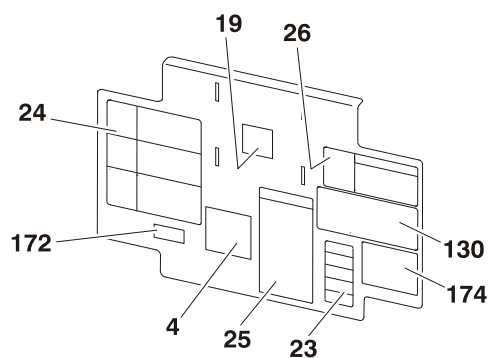
SECTION 8 DECALS



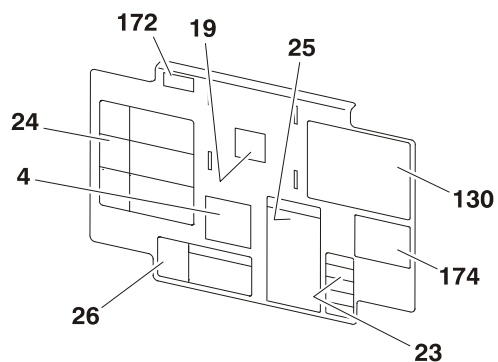
SECTION 8 DECALS

PLATFORM DECAL PANEL DETAILS

MODEL 1930ES



MODELS 2030ES & 2630ES



MODELS 2646ES & 3246ES

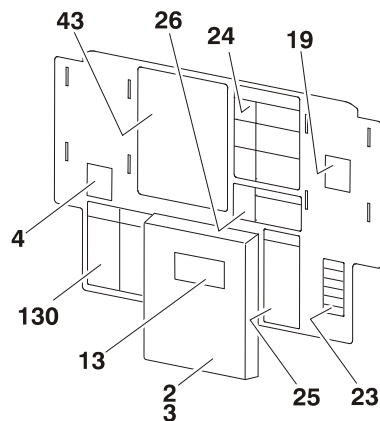


FIGURE 8-2. DECALS INSTALLATIONS (ANSI EXPORT SPEC)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	DECALS INSTALLATION - ANSI EXPORT SPECS	
		Ref.	1930ES:	
		Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	
	0272864	Ref.	Brazilian Spec (Portuguese/Spanish Spec)	4
	0273795	Ref.	Chinese Spec (English/Chinese Spec)	4
	0272857	Ref.	CSA Spec (English/French)	4
	0274120	Ref.	Korean Spec	3
	0272863	Ref.	Latin American Spec (English/Spanish)	4
		Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	
	0275225	Ref.	Brazilian Spec (Portuguese/Spanish Spec)	3
	0275226	Ref.	Chinese Spec (English/Chinese Spec)	3
	0275223	Ref.	CSA Spec (English/French)	3
	0275227	Ref.	Korean Spec	4
	0275224	Ref.	Latin American Spec (English/Spanish)	3
		Ref.	2030ES/2630ES:	
	0272864	Ref.	Brazilian Spec (Portuguese/Spanish Spec)	4
	0273795	Ref.	Chinese Spec (English/Chinese Spec)	4
	0272857	Ref.	CSA Spec (English/French)	4
	0274120	Ref.	Korean Spec	3
	0272863	Ref.	Latin American Spec (English/Spanish)	4
		Ref.	2646ES/3246ES:	
		Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	0272864	Ref.	Brazilian Spec (Portuguese/Spanish Spec)	4
	0273795	Ref.	Chinese Spec (English/Chinese Spec)	4
	0272857	Ref.	CSA Spec (English/French)	4
	0274120	Ref.	Korean Spec	3
	0272863	Ref.	Latin American Spec (English/Spanish)	4
		Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	
	0275225	Ref.	Brazilian Spec (Portuguese/Spanish Spec)	3
	0275226	Ref.	Chinese Spec (English/Chinese Spec)	3
	0275223	Ref.	CSA Spec (English/French)	3
	0275227	Ref.	Korean Spec	4
	0275224	Ref.	Latin American Spec (English/Spanish)	3
	0272870	Ref.	JLG Decals	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
3	1060279	1	Cable, Lanyard	
4	1700584	1	Decal - Patent	
5	2080057	4	Fastener	
6	Not Used	1		
7	Not Available	1	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box)	
8	Not Used	1		
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	

SECTION 8 DECALS

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

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
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	
20	Not Used			
21		4	Decal - Crushing Hazard	
	1705694		All Specs Except Brazilian Spec	
	1705722		Brazilian Spec	
22		4	Decal - Danger Electrocution	
	1705695		All Specs Except Brazilian Spec	
	1703834		Brazilian Spec	
23		1	Decal - Legend	
	1705726		Brazilian Spec	
	1705946		Chinese Spec	
	1705723		CSA Spec	
	1706057		Korean Spec	
	1705720		Latin American Spec	
24		1	Decal - Danger/Warning	
	1705680		All Specs Except Brazilian Spec	
	1705894		Brazilian Spec	
25		1	Decal - Inspection	
	1705679		All Specs Except Brazilian Spec	
	1705727		Brazilian Spec	
26		1	Decal - Electrocution	
	1705681		All Specs Except Brazilian Spec	
	1705721		Brazilian Spec	
27		2	Decal - Warning Battery Vent	
	1704341		Brazilian Spec	
	1704344		Chinese Spec	
	1704340		CSA Spec	
	1703856		Korean Spec	
	1704339		Latin American Spec	
28 to 31	Not Used			
32		2	Decal - JLG Options:	
	1705754		USA Built Machines S/N 0200135154 to S/N 0200148430 & Belgium Built Machines S/N 1200004293 to S/N 1200006154	
	1705781		USA Built Machines S/N 0200148430 to S/N 0200152825 & Belgium Built Machines S/N 1200006154 to S/N 1200008481	
33	1705687	2	Decal - Website (USA Built Machines S/N 0200135154 to S/N 0200137525 Only)	
34	Not Used			
35	1702773	1	Decal - JLG	
36 to 38	Not Used			

SECTION 8 DECALS

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

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
39	1703464 3252507	1	Decal - AC Power Options: 120-60Hz 220V-50/60Hz	
40	1705725 1705717 1705943 1706052	4	Decal - Crushing Hazard Options: Brazilian & Latin American Specs CSA Spec Chinese Spec Korean Spec	
41	1705724 1705718 1705944 1706056	4	Decal - Electrocution Options: Brazilian & Latin American Specs CSA Spec Chinese Spec Korean Spec	
42	Not Used			
43	1705719 3252098 1705945 1706053	1	Decal - Warning/Danger Options: Brazilian & Latin American Specs CSA Spec (English/French) Chinese Spec Korean Spec	
44	1701499	1	Decal - No Lift	
	2902267	1	Decal Kit 1 (Includes Items 9-19 & 44)	8
		1	Decal Kit 2 Options (Includes Items 21-27 & 40-41):	
	Use 2902526		Brazilian Spec (was p/n 2902302)	2
	Use 2902528		Chinese Spec (was p/n 2902335)	2
	Use 2902524		CSA Spec (was p/n 2902278)	2
	Use 2902532		Korean Spec (was p/n 2902378)	2
	Use 2902525		Latin American Spec (was p/n 2902301)	2
	0010588	Ref.	DECAL OPTIONS	59
101 to 129 130	Not Used	A/R	Decal - Capacity Options: 1930ES: 500lbs/227kg (Platform Box & Platform Entry Locations) 500lbs/227kg (Ground Control Box Location) 2030ES: 800lbs/363kg (All Locations) 2630ES: Platform Console Box Decal - 500lb/227kg & 800lb/360kg (Located on Frame Side & at Platform Console Box) Platform Entry Decal - 500lb/227kg & 800lb/360kg Ground Control Box - 500lb/227kg & 800lb/360kg 2646ES: 1000lbs/454kg 3246ES: 700lbs/317kg	
131 to 141 142	Not Used 1001116915	1	Decal - Hardware Retention	

SECTION 8 DECALS

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

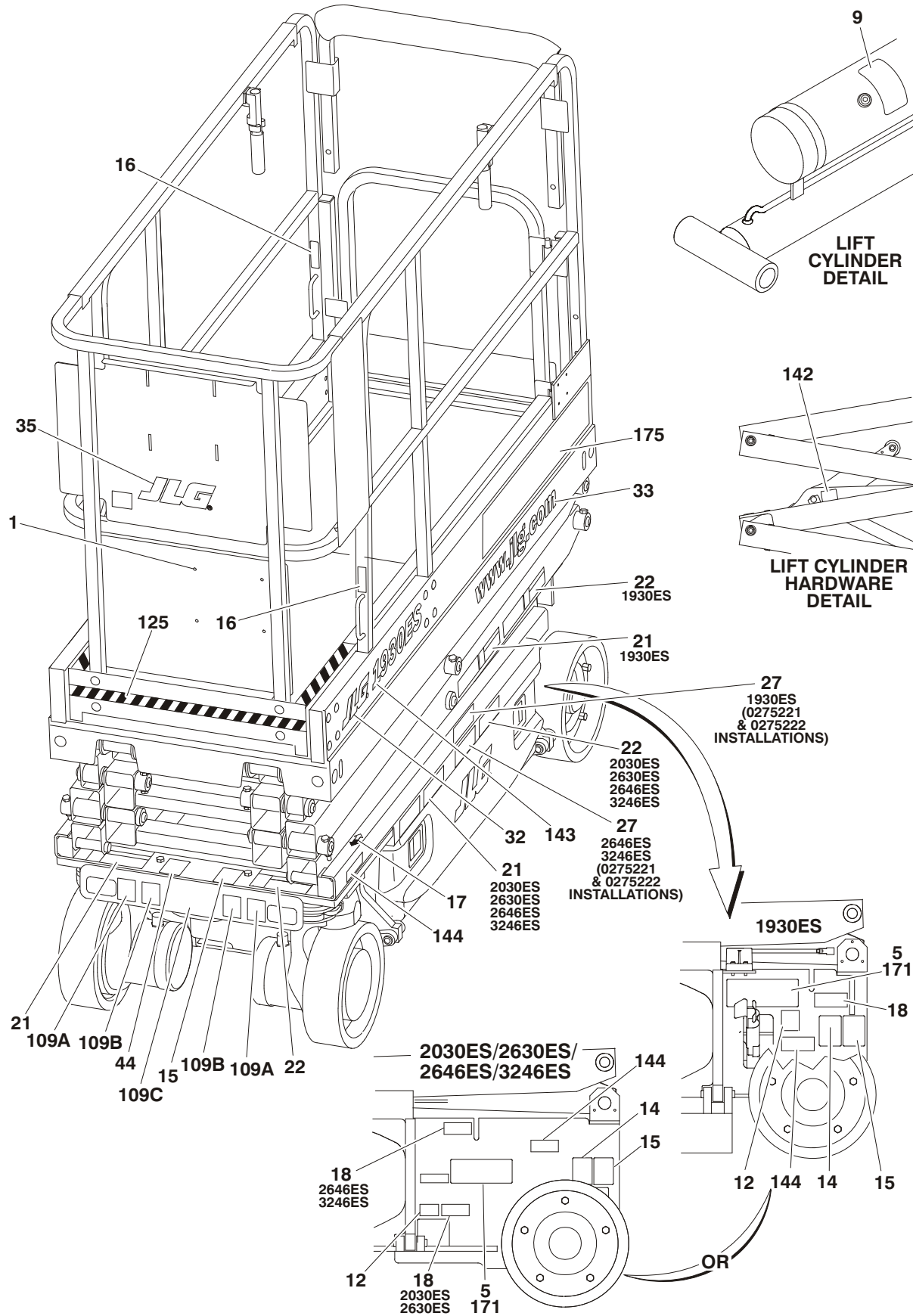
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
143	1705642 1705643 1705644 1705645 1705646	2	Decal - Model Designation Options: 1930ES 2030ES 2630ES 2646ES 3246ES	
144	1705647 1706310 1706311	4	Decal - Max Tire Load Options: 1930ES 2030ES/2630ES 2646ES/3246ES	
145 to 170	Not Used			
171	Not Available		Nameplate - Serial Number	
172		A/R	Decal - CSA Options:	
	1705303	1	CSA Spec (English/French)	
	Not Required	0	Latin American Spec (English/Spanish)/(English/Chinese Spec)	
173	Not Used			
174	3251813	1	Decal - Made in USA	
175		2	Decal - Platform Color Options:	
	1705850		1930ES/2030ES/2630ES (was p/n 1705741, 1705742 & 1705849)	
	1705851		2646ES/3246ES (was p/n 1705743)	
176	1705880	1	Decal - Capacity (Platform Entry) (800lbs/363kg - 500lbs/227kg) (2630ES)	

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

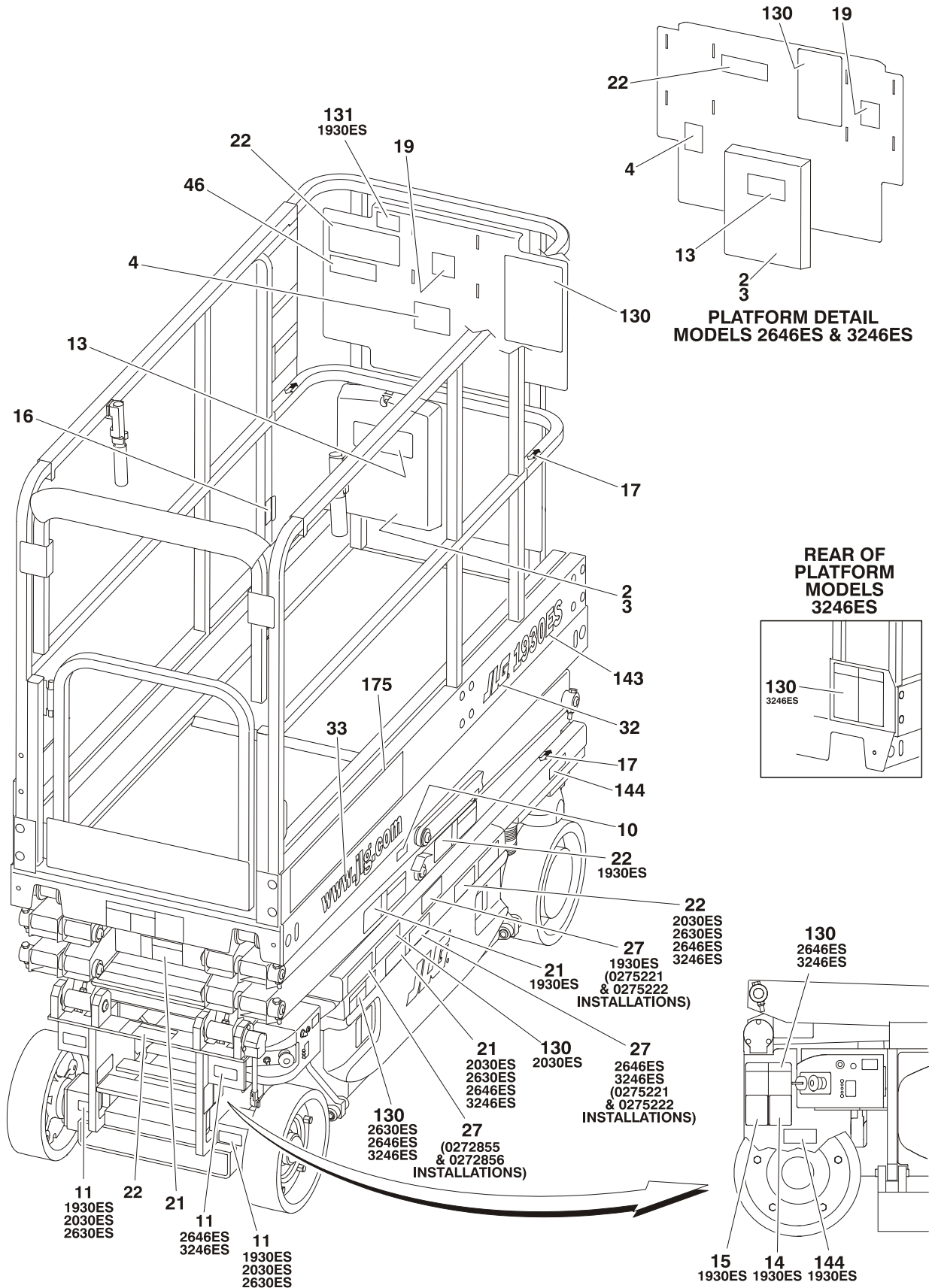
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 8 DECALS

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN & CE SPECS)



SECTION 8 DECALS



SECTION 8 DECALS

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN & CE SPECS)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	DECALS INSTALLATION - AUSTRALIAN & CE SPECS	
		Ref.	Australian Spec Options:	
		Ref.	1930ES	
	0272856	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	6
	0275222	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	3
	0272856	Ref.	2030ES/2630ES	6
		Ref.	2646ES/3246ES	
	0272856	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	6
	0275222	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	3
		Ref.	CE Spec Options:	
		Ref.	1930ES	
	0272855	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	8
	0275221	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	3
	0272855	Ref.	2030ES/2630ES	8
		Ref.	2646ES/3246ES	
	0272855	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	8
	0275221	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	3
	0272870	Ref.	JLG Decals	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
3	1060279	1	Cable, Lanyard (0272855 & 0272856 Installations Only)	
4	1700584	1	Decal - Patent	
5	2080057	4	Fastener	
6	Not Used	1		
7	Not Available	1	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box)	
8	Not Used	1		
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	

SECTION 8 DECALS

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN & CE SPECS) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
20	Not Used			
21	1705673	4	Decal - Crushing Hazard	
22	1705671	5	Decal - Danger Electrocution	
23 to 26	Not Used			
27	1705670	1	Decal - Warning Battery Vent	
28 to 31	Not Used			
32		2	Decal - JLG Options:	
	1705754		USA Built Machines S/N 0200135154 to S/N 0200148430 & Belgium Built Machines S/N 1200004293 to S/N 1200006154	
	1705781		USA Built Machines S/N 0200148430 to S/N 0200152825 & Belgium Built Machines S/N 1200006154 to S/N 1200008481	
33	1705687	2	Decal - Website (USA Built Machines S/N 0200135154 to S/N 0200137525 Only)	
34	Not Used			
35	1702773	1	Decal - JLG	
36 to 38	Not Used			
39		1	Decal - AC Power Options:	
	1703464		120-60Hz	
	3252507		220V-50/60Hz	
40 to 43	Not Used			
44	1701499	1	Decal - No Lift	

	2902267	1	Decal Kit 1 (Includes Items 9-19 & 44)	8
	Use 2902523	1	Decal Kit 2 (Includes Items 21, 22 & 27) (was p/n 2902269)	1
	2890186	1	Decal Kit CE (Includes Qty 1 of p/n 170)	1
	0010588	Ref.	DECAL OPTIONS	6
101 to 108	Not Used			
109	0273454	A/R	Lifting Lug & Decals (Standard on Australian Spec/ Optional on CE Spec)	B
109A	1703811	2	Decal - Lifting Lug	
109B	1703814	2	Decal - Tie-Down	
109C	0240055	1	Attach, Lifting Lug	
	3574636	1	Bar, Mounting (Located Behind Item 109C)	
110 to 124	Not Used			
125		A/R	Decal - Corner Stripe Options:	
	0272721		1930ES/2030ES/2630ES	B
	0272862		2646ES/3246ES	B
	4420051	1.3m	1930ES/2030ES/2630ES	
	4420051	1.2m	2646ES/3246ES	
126 to 129	Not Used			

SECTION 8 DECALS

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN & CE SPECS) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
130	1705666 1705667 1705887 1705942 1705668 1705819 1705704	1	Decal - Capacity Options: 230kg Indoor/120kg Outdoor (1930ES) 360kg (2030ES) 230kg (2630ES) (Australian Specs) 230kg/360kg (2630ES) (CE Specs) 450kg (2646ES) 320kg/450kg (3246ES) (Australian Spec) 320kg (3246ES) (CE Spec)	
131 to 141	Not Used			
142	1001116915	1	Decal - Hardware Retention	
143		2	Decal - Model Designation Options: 1930ES 2030ES 2630ES 2646ES 3246ES	
144	1705642 1705643 1705644 1705645 1705646	4	Decal - Max Tire Load Options: 1930ES 2030ES/2630ES 2646ES/3246ES	
145 to 170	Not Used			
171	Not Available		Nameplate - Serial Number	
172 to 174	Not Used			
175	1705850 1705851	2	Decal - Platform Color Options: 1930ES/2030ES/2630ES (was p/n 1705741, 1705742 & 1705849) 2646ES/3246ES (was p/n 1705743)	

SECTION 9 RECOMMENDED SERVICE PARTS STOCK

MODEL ES

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.

Part Number	Description	Qty./Machine
STANDARD PARTS		Ref.
4360069	Breaker, Circuit - 10 Amp (Figure 2-2)	1
4360328	Switch, Toggle (Figure 2-2)	1
2860030	Key, Replacement (Figure 2-2)	1
4360475	Switch, Mushroom (Figures 2-2 & 4-9)	1
4360387	Switch, Push Button (Figure 2-3, 7-3 & 7-4)	1
1001091910	Switch, Rotary Angle Sensor (Figures 3-2, 3-3, 3-4 & 3-6)	1
1001134438	Controller, Drive (Figure 4-9)	1
4360538	Switch & Membrane (Figure 4-9)	1
4360539	Switch, Toggle (Figure 4-9)	1
7020500	Switch, Rocker (Figure 4-10)	1
7020501	Switch, Push Button (Figure 4-10)	1
7023593	Plug, Fill (Figure 5-1 & 5-2)	1
7023576	Filter (Figure 5-1 & 5-2)	1
3990013	Diode 1 Amp (Figure 7-3 & 7-4)	2
VARIABLE PARTS		Ref.
1600346	Control Module (Frame) (Figure 1-4)	1
3740150	Relay (Non-UL Spec) (Figure 1-4)	1
2915064	Relay (UL Spec) (Figure 1-4)	1
1600419	Control Module (Ground Control) (Figure 2-2)	1
1810140	Tilt Module (Figure 2-2)	1
4360469	Switch, Key (ANSI/ANSI Export Spec) (Figure 2-2)	1
4360470	Switch, Key (CE/Australian Spec) (Figure 2-2)	1
3080007	Magnet, Latch (Machines with Platform Gate Entry) (Figures 4-3, 4-5, 4-6 & 4-8)	1
1001101076	Snap Latch Repair Kit (Machines with Platform Chain Entry) (Figures 4-3, 4-6 & 4-8)	1
1001091965	Control Module (Platform) (Figure 4-9)	1
7023540	Coil (2030ES/2630ES) (Figure 5-1)	1
7023541	Coil (2030ES/2630ES) (Figure 5-1)	1
70000798	Coil (1930ES/2646ES/3246ES) (Figure 5-2)	1
70000799	Coil (1930ES/2646ES/3246ES) (Figure 5-2)	1
4360607	Switch, Limit (2030ES/2630ES) (Figure 7-3)	1
1001109345	Switch, Limit (1930ES/2646ES/3246ES) (Figure 7-4)	1
1001109475	Breaker, Circuit 16 Amp (CE Spec Machines with Platform Electrical Outlet) (Figure 7-4)	1
1001109482	Breaker, Circuit 30 mA (CE Spec Machines with Platform Electrical Outlet) (Figure 7-4)	1
4360613	Limit Switch (Machines with Optional Brake Disconnect) (Figure 7-3 & 7-4)	1
4922944	Release Switch (Machines with Optional Brake Disconnect) (Figure 7-3 & 7-4)	1

SECTION 9 RECOMMENDED SERVICE PARTS STOCK

MODEL ES

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.

Part Number	Description	Qty./Machine
4360482	Switch, Toggle (ANSI & CSA Spec Machines with Optional Battery Charger/ Inverter Combo) (Figure 7-3)	1
4360336	Switch, Toggle (ANSI & CSA Spec Machines with Optional Battery Charger/ Inverter Combo) (Figure 7-4)	1
3990010	Diode 6 Amp (ANSI & CSA Spec Machines with Optional Battery Charger/ Inverter Combo) (Figure 7-4)	2
MAINTENANCE KITS		Ref.
1001101329	Annual Hydraulic Maintenance Kit - 1930ES/2030ES/2630ES (w/Standard Hydraulic Oil) (Figure 10-1)	1
1001101330	Annual Hydraulic Maintenance Kit - 2646ES/3246ES (w/Standard Hydraulic Oil) (Figure 10-1)	1

SECTION 10 SPECIAL OPTIONS

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.

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
10—1		Ref.	SPECIAL OPTIONS LIST	
		Ref.	Airline Installation (1/2")	
	0274516	Ref.	1930ES	
	0274370	Ref.	2030ES	
	0274517	Ref.	2630ES	
	0274446	Ref.	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 & Setscrew)	
	4922944	Ref.	Brake Switch & Harness	
	0275530	Ref.	Brake Release Switch (Optional ANSI, ANSI Export, CSA & UL Specs/Standard on Australian & CE Specs) For Machines without Pressure Checks)	
	See Note	Ref.	Brake Release Switch (Optional ANSI, ANSI Export, CSA & UL Specs/Standard on Japanese Specs) (For Machines with Pressure Checks) (was p/n 0275603) Note: Use Both p/ns 0275530& 0273859.	
	2915016	Ref.	Battery Charger Mounting Kit	
		Ref.	Decal Options	
	0272721	Ref.	Decals - Corner Stripes (1930ES/2030ES/2630ES)	
	0272862	Ref.	Decals - Corner Stripes (2646ES/3246ES)	
	0273603	Ref.	Decals - Commercial Solutions Group (ANSI & CSA Specs Only)	
	1705304	Ref.	Decals - Service Support (Commercial Solutions Group Only) (ANSI, CSA & UL Specs Only)	
	0274545	Ref.	Decals - FedEx (ANSI, CSA & UL Specs Only)	
	0273603	Ref.	Decals - Grainger Spec (ANSI, CSA & UL Specs Only)	
	0274527	Ref.	Decals - Head & Engquist Equipment (ANSI Spec Only)	
	0273543	Ref.	Decals - Hertz (ANSI, CSA & UL Specs Only)	
	0272877	Ref.	Decals - Home Depot (ANSI, CSA & UL Specs Only)	
	0273544	Ref.	Decals - Nations Rent (ANSI, CSA & UL Specs Only)	
	0274242	Ref.	Decals - Nations Equipment Services (1930ES/2030ES/2630ES) (ANSI, CSA & UL Specs Only)	
	0274251	Ref.	Decals - Nations Equipment Services (2646ES/3246ES) (ANSI, CSA & UL Specs Only)	
	0275900	Ref.	Decals - RSC Equipment Rental (ANSI Spec Only)	
	1705304	Ref.	Decals - Service Support (ANSI & CSA Specs Only)	
	1706922	Ref.	Decals - Service Support (ANSI & CSA Specs Only)	
	0272872	Ref.	Decals - Sunbelt (ANSI, CSA & UL Specs Only)	
	0274179	Ref.	Decals - Sunstate (ANSI, CSA & UL Specs Only)	
	0274126	Ref.	Decals - UL Specs (EE Rating)	
	0272871	Ref.	Decals - United Rentals (ANSI, CSA & UL Specs Only)	
	1001103307	Ref.	Decals - UPS (ANSI Spec Only)	

SECTION 10 SPECIAL OPTIONS

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.

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	Electrical Connector Kits	
	1001148902	Ref.	Amp/Tyco Electrical Connector Kit	
	1001148903	Ref.	Deutsch DT Electrical Connector Kit	
	1001148904	Ref.	Deutsch HD Electrical Connector Kit	
	1001148905	Ref.	Packard Electrical Connector Kit	
	1001148906	Ref.	Various Electrical Connectors Kit	
		Ref.	Electricians Package (Work Station in the Sky Accessory)	
		Ref.	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0273950	Ref.	Without DC Converter	
	0273955	Ref.	With DC Converter	
		Ref.	Electricians Tree (Work Station in the Sky Accessory)	
		Ref.	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0240092	Ref.	Without DC Converter	
	0274153	Ref.	With DC Converter	
	0274849	Ref.	Fire Extinguisher Installation (ANSI)	
		Ref.	Fluids	
	2300028	A/R	Fluid, Hydraulic - Mobil DTE 10 Excel 15 (Bulk)	
	70010346	A/R	Fluid, Hydraulic - Mobil DTE 10 Excel 15 (1 Gallon)	
	2300042	A/R	Fluid, Hydraulic - Synthetic Biodegradeable	
		Ref.	Footswitch Installation Options (Japanese Spec)	
	0273761	Ref.	1930ES	
	0273762	Ref.	2030ES/2630ES/2646ES/3246ES	
	3128145	Ref.	Inspection Packet (ANSI & ANSI Export Specs Only)	
	0274341	Ref.	Interlock Override for Battery Charger Installation (ANSI)	
		Ref.	Inverter Installations (ANSI, ANSI Export & Japanese Specs)	
	0272876	Ref.	1930ES	
	0273070	Ref.	2030ES/2630ES	
	0273071	Ref.	2646ES/3246ES	
	2460042	1	Inverter Assembly	
	4360482	1	Switch, Toggle	
	1705051	1	Decal - Instructions	
	1705052	1	Decal - On-Off	
	0273454	Ref.	Lifting Lugs Installations	
		Ref.	Maintenance Kits - Annual Hydraulic (Not for Machines with Biodegradeable Hydraulic Fluid)	
	1001101329	Ref.	1930ES/2030ES/2630ES	
	1001101330	Ref.	2646ES/3246ES	

SECTION 10 SPECIAL OPTIONS

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.

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
	2902405	Ref.	Motor Band Kit (UL Specs Only)	
	3125053	Ref.	Operator Video (ANSI & 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.	1930ES:	
		Ref.	ANSI, ANSI Export & CSA Specs Options:	
	0273436	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	
	No Longer Available	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (was p/n 0274970)	
		Ref.	Australian, CE & Japanese Specs Options:	
	0272858	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	
	No Longer Available	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (was p/n 0274969)	
		Ref.	2030ES & 2630ES:	
	0273437	Ref.	ANSI, ANSI Export & CSA Specs	
	0272859	Ref.	Australian, CE & Japanese Specs	
		Ref.	2646ES & 3246ES:	
		Ref.	ANSI, ANSI Export & CSA Specs Options:	
	0273438	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	0274980	Ref.	USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	
		Ref.	Australian, CE & Japanese Specs Options:	
	0272860	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151610 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	0274981	Ref.	USA Built Machines S/N 0200151610 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	
	Use 1001092074	Ref.	Pipe Racks Installations (Not Available on 1930ES) (was P/N 0272884)	
		Ref.	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	Use 1001092073	2	Pipe Rack Assembly (was p/n 0240057)	
		Ref.	Platform Latch - Magna-Latch Side Pull	
	1001135316	Ref.	1930ES/2030ES/2630ES	
	1001135317	Ref.	2646ES/3246ES	

SECTION 10 SPECIAL OPTIONS

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.

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	Platform Limit Switches & Rail Padding Installations	
		Ref.	1930ES without Limit Switches	
	0272865	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	
	0275078	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	
		Ref.	1930ES with Limit Switches	
	0274042	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	
	0275080	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (Non-UL Spec)	
	1001100029	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481 (UL Spec)	
	0272866	Ref.	2030ES/2630ES without Limit Switches	
	0274043	Ref.	2030ES/2630ES with Limit Switches	
		Ref.	2646ES with Limit Switches and No Padding	
	1001098162	Ref.	CE Spec Only	
		Ref.	2646ES/3246ES without Limit Switches	
	0272867	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	0275076	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481 (Non-UL Spec)	
	1001092702	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481(UL Spec)	
		Ref.	2646ES/3246ES with Limit Switches	
	0274044	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	0275082	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481 (Non-UL Spec)	
	1001092701	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481(UL Spec)	
		Ref.	Platform Worklights Installations	
	0272850	Ref.	1930ES (Without UL Specs)	
	0272851	Ref.	2030ES (Without UL Specs)	
	0272852	Ref.	2630ES (Without UL Specs)	
	0272853	Ref.	2646ES/3246ES (Without UL Specs)	
	0275937	Ref.	2646ES/3246ES (With UL Specs)	

SECTION 10 SPECIAL OPTIONS

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.

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
	0273951	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 & CE Specs)	
		Ref.	Tools for Service	
	7002821	1	Crimper, Wire	
	7002823	1	Extractor, Pin - Universal	
	4460467	A/R	Extractor, Pin #16 Gauge	
	4460510	A/R	Extractor, Pin #12 Gauge	
	7004275	1	Installer, Cylinder Seal - 1"	
	7004276	1	Installer, Cylinder Seal - 1 1/2"	
	7002826	1	Installer, Cylinder Seal - 2"	
	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	
	0240093	Ref.	Vise Installation (Work Station in the Sky Accessory)	
		Ref.	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	

SECTION 10 SPECIAL OPTIONS

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.

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref.	Welder Installations (All Specs Except CE & U/L Specs)	
		Ref.	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0272879	Ref.	1930ES Complete Kit	
		Ref.	1930ES Kit (Includes Fire Extinguisher & Power Cable Only)	
	0274154	Ref.	USA Built Machines S/N 0200135154 to S/N 0200150266 & Belgium Built Machines S/N 1200004293 to S/N 1200007882	
	0275072	Ref.	USA Built Machines S/N 0200150266 to S/N 0200152825 & Belgium Built Machines S/N 1200007882 to S/N 1200008481	
	0272880	Ref.	2030ES Complete Kit	
	0274155	Ref.	2030ES Kit (Includes Fire Extinguisher & Power Cable Only)	
	0272881	Ref.	2630ES Complete Kit	
	0274156	Ref.	2630ES Kit (Includes Fire Extinguisher & Power Cable Only)	
	0272882	Ref.	2646ES/3246ES Complete Kit	
		Ref.	2646ES/3246ES Kit (Includes Fire Extinguisher & Power Cable Only):	
	0274157	Ref.	USA Built Machines S/N 0200135154 to S/N 0200151606 & Belgium Built Machines S/N 1200004293 to S/N 1200008265	
	0275075	Ref.	USA Built Machines S/N 0200151606 to S/N 0200152825 & Belgium Built Machines S/N 1200008265 to S/N 1200008481	
		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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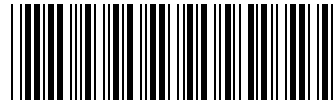
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