



Illustrated Parts Manual

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

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

3121247

November 4, 2014

ANSI

CE



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. 02XXXXXXX), ES Scissors manufactured in Belgium will have a prefix of 12 (i.e. 12XXXXXXX) and ES Scissors manufactured in the China will have a serial number prefix of B2 (i.e. B2XXXXXXX).

NOTE: 1930ES, 2030ES, 2630ES, 2646ES & 3246ES Global Illustrated Parts Manual P/N 3121167 has been replaced by multiple manuals.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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January 10, 2013 - Revised Manual
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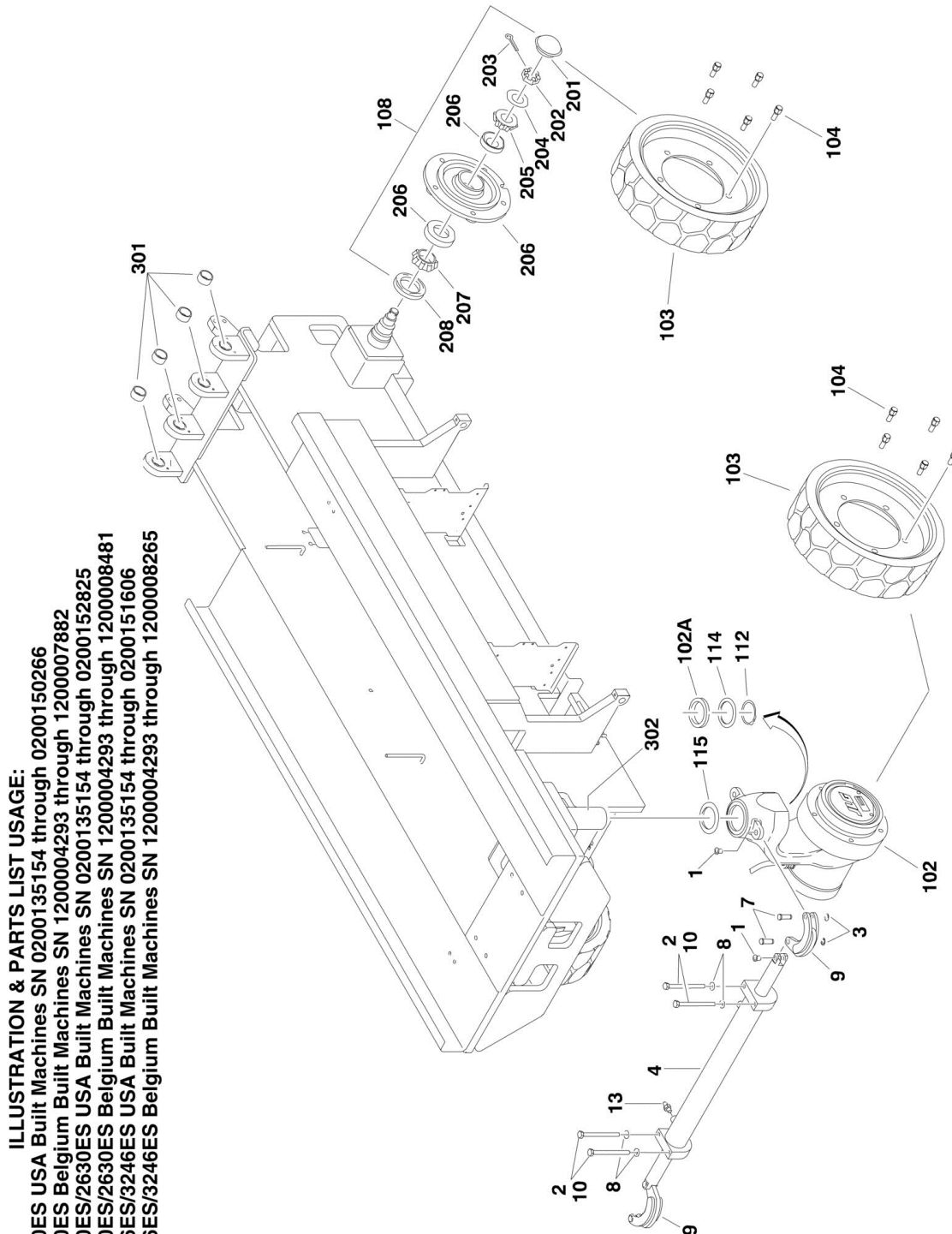
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FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (1930ES SN 0200135154 through 0200150266, SN 1200004293 through 1200007882; 2030ES SN 0200135154 through 0200152825; 2630ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2030ES SN 1200004293 through 1200008481; 2646ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265; 3246ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265)

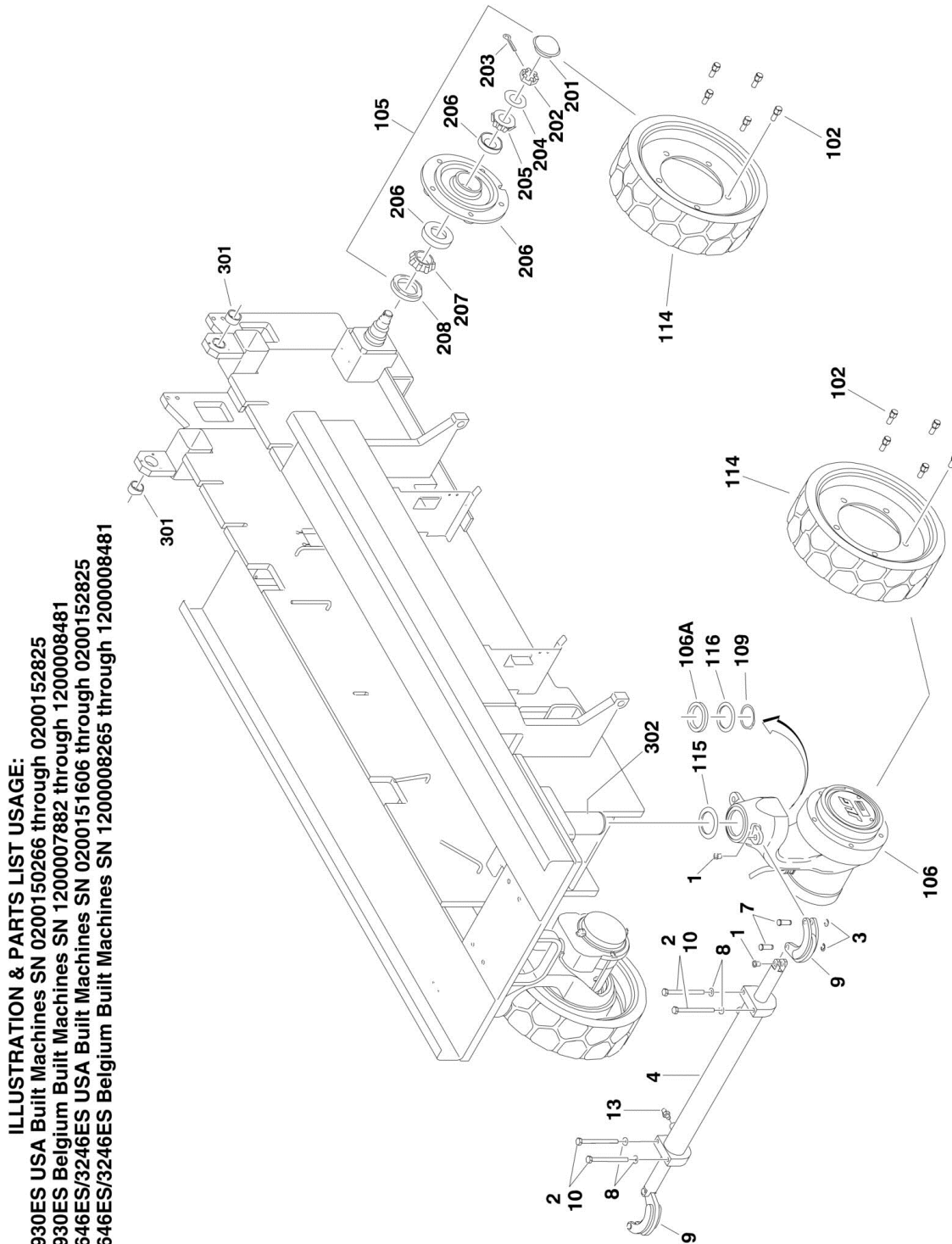
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ILLUSTRATION AND PARTS LIST USAGE:	
		Ref	1930ES USA Built Machines (SN 0200135154 through 0200150266)	
		Ref	1930ES Belgium Built Machines (SN 1200004293 through 1200007882)	
		Ref	2030ES/2630ES USA Built Machines (SN 0200135154 through 0200152825)	
		Ref	2030ES/2630ES Belgium Built Machines (SN 1200004293 through 1200008481)	
		Ref	2646ES/3246ES USA Built Machines (SN 0200135154 through 0200151606)	
		Ref	2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200008265)	
		Ref	STEERING INSTALLATION	
	0272371	Ref	Steering Installation 1930ES	F
	0273227	Ref	Steering Installation 2030ES/2630ES	C
	0272372	Ref	Steering Installation 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200137093)	G
	0272372	Ref	Steering Installation 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200004607)	G
	0274546	Ref	Steering Installation 2646ES/3246ES USA Built Machines. (SN 0200137094 through 0200151606)	B
	0274546	Ref	Steering Installation 2646ES/3246ES Belgium Built Machines (SN 1200004608 through 1200008265)	B
1	0440259	2	Bearing, Flanged	
2		Ref	Bolt M10 Options:	
2	0701016	4	40mm Length	
2	0701020	4	60mm Length	
3	1380153	4	E-Clip	
4		Ref	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown):	
4	1684237	1	Steer Cylinder Assembly 1930ES/2030ES/2630ES	
4		Ref	Steer Cylinder Assembly 2646ES/3246ES	
4	1684263	1	USA Built Machines (SN 0200135154 through 0200137093)	
4	1684263	1	Belgium Built Machines (SN 1200004293 through 1200004607)	
4	1684456	1	USA Built Machines (SN 0200137094 through 0200151606)	
4	1684456	1	Belgium Built Machines (SN 1200004608 through 1200008265)	
7	3423037	4	Pin, Clevis	
8	4812000	4	Flatwasher M10	
9	4846757	2	Lug, Steer	
10	0100011	AR	Compound, Locking	
13	2110404	2	Fitting, Straight	
		Ref	DRIVE INSTALLATION	
	0272710	Ref	Drive Installation 1930ES	O
	0274224	Ref	Drive Installation 1930ES (UL SPEC)	F
	0272711	Ref	Drive Installation 2030ES/2630ES	O

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0274225	Ref	Drive Installation 2030ES/2630ES (UL SPEC)	F
	0273008	Ref	Drive Installation 2646ES/3246ES	P
	0274226	Ref	Drive Installation 2646ES/3246ES (UL SPEC)	F
102		Ref	Wheel Drive Assembly Options:	
102	2915236	2	Wheel Drive Assembly, 1930ES (See WHEEL DRIVE ASSEMBLY for Breakdown) (was p/n 3160306)	
102	1001100975	2	Wheel Drive Assembly, 2030ES/2630ES/2646ES/3246ES (See WHEEL DRIVE ASSEMBLY for Breakdown) (was p/n 3160307)	
102A	3577112	2	Plate, Spacer (Used only on Machines with Kit P/N 2915236 installed)	
103		Ref	Wheel and Bolt Kit Options (includes Item 104):	
		Ref	Note: Must replace Tire and Wheel Assemblies in pairs per axle.	
103	2915012	4	Wheel and Bolt Kit, 1930ES (was p/n2915005, 4520326 & 4520565)	
103	2915013	4	Wheel and Bolt Kit, 2030ES/2630ES/2646ES/3246ES (was p/n 2915006, 4520327 & 4520676)	
104	0630580	20	Bolt, Wheel	
108	2780266	2	Hub Assembly (See Items 201-208 for Breakdown)	
112	3760463	2	Ring, Retaining	
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	1001102354	1	Cap, Dust (was p/n 7012524)	
202	3300423	1	Nut, Slotted (was p/n 7010641)	
203	3450406	1	Pin, Cotter 2in x 3/16in (was p/n 7010642)	
204	4740468	1	Washer (was p/n 7019697)	
205	1001102351	1	Bearing, Cone - Outer (was p/n 7026185)	
206	Not Available	1	Hub (Purchase Complete Hub p/n 2780266)	
207	1001102353	1	Bearing, Cone - Inner (was p/n 7026183)	
208	1001102349	1	Seal (was p/n 7026184)	
		Ref	FRAME WELDMENT	
301		Ref	Bushing Options:	
301	0440264	2	Bushing 1930ES	
301	0440265	4	Bushing 2030ES/2630ES/2646ES/3246ES	
302		Ref	Kingpin Rework Instruction Options (Provides rework procedure for damaged kingpins):	
302	3128601	AR	Kingpin Rework Instruction 1930ES/2030ES/2630ES	
302	3128703	AR	Kingpin Rework Instruction 2646ES/3246ES	

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FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (1930ES SN 0200150266 through 0200152825, SN 1200007882 through 1200008481; 2646ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481; 3246ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)



SECTION 1 - FRAME

FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (1930ES SN 0200150266 through 0200152825, SN 1200007882 through 1200008481; 2646ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481; 3246ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)

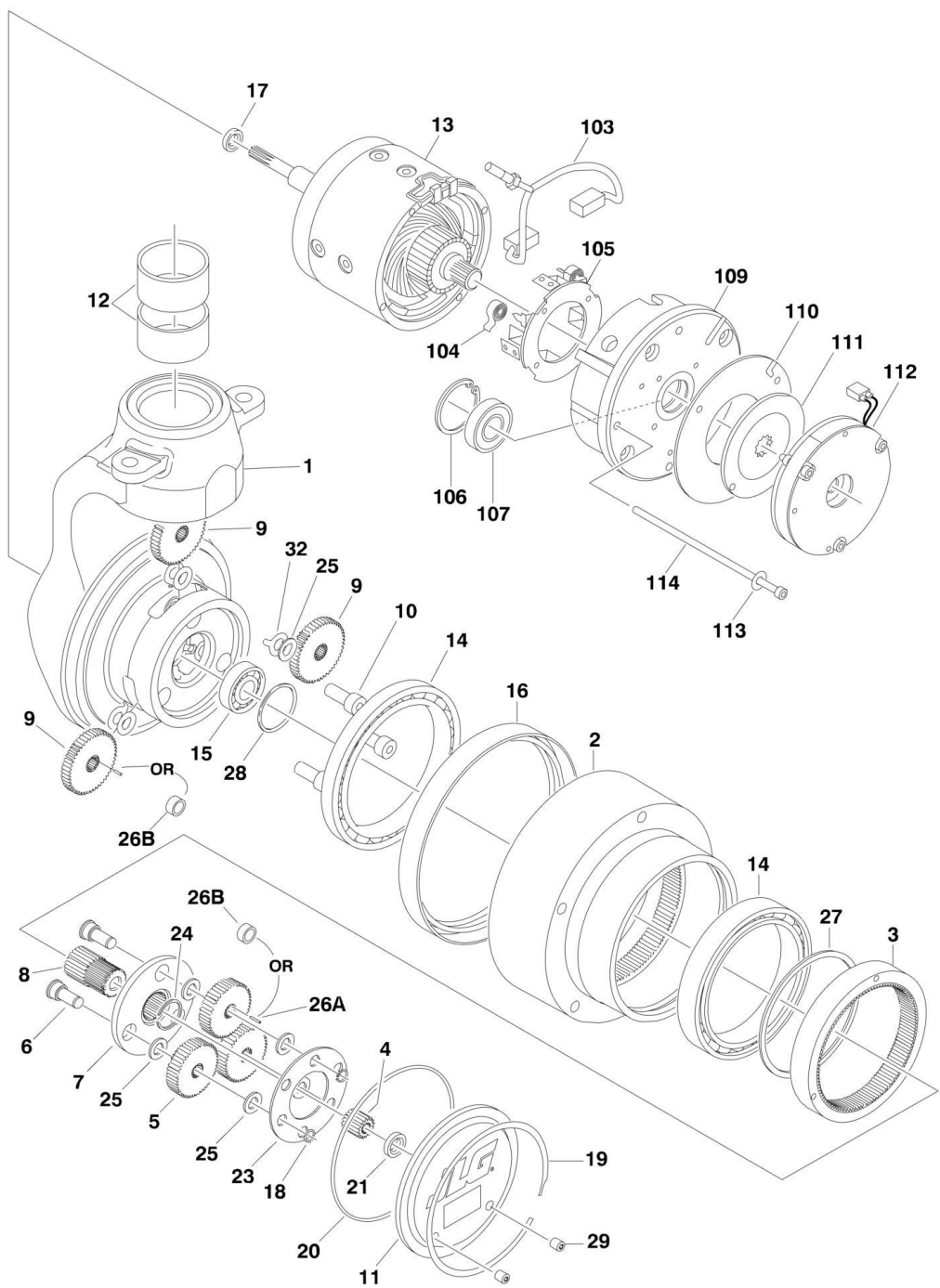
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ILLUSTRATION AND PARTS LIST USAGE:	
		Ref	1930ES USA Built Machines (SN 0200150266 through 0200152825)	
		Ref	1930ES Belgium Built Machines (SN 1200007882 through 1200008481)	
		Ref	2646ES/3246ES USA Built Machines (SN 0200151606 through 0200152825)	
		Ref	2646ES/3246ES Belgium Built Machines (SN 1200008265 through 1200008481)	
		Ref	STEERING INSTALLATION	
	0272371	Ref	Steering Installation 1930ES	F
	0274546	Ref	Steering Installation 2646ES/3246ES	B
1	0440259	2	Bearing, Flanged	
2		Ref	Bolt M10 Options:	
2	0701016	4	40mm Length	
2	0701020	4	60mm Length	
3	1380153	4	E-Clip	
4		Ref	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown):	
4	1684237	1	Steer Cylinder Assembly 1930ES	
4	1684456	1	Steer Cylinder Assembly 2646ES/3246ES	
7	3423037	4	Pin, Clevis	
8	4812000	4	Flatwasher M10	
9	4846757	2	Lug, Steer	
10	0100011	AR	Compound, Locking	
13	2110404	2	Fitting, Straight	
		Ref	DRIVE INSTALLATION	
	0275185	Ref	Drive Installation 1930ES	B
	0275188	Ref	Drive Installation 1930ES (UL SPEC)	B
	0275187	Ref	Drive Installation 2646ES/3246ES	A
	0275190	Ref	Drive Installation 2646ES/3246ES (UL SPEC)	A
102	0630580	20	Bolt, Wheel	
105	2780266	2	Hub Assembly (See Items 201-208 for Breakdown)	
106		Ref	Wheel Drive Assembly Options (See WHEEL DRIVE ASSEMBLY for Breakdown):	
106	2915236	2	Wheel Drive Assembly 1930ES (was p/n 3160306)	
106	1001100975	2	Wheel Drive Assembly 2646ES/3246ES (was p/n 3160307)	
106A	3577112	2	Plate, Spacer (Used only on Machines with Kit P/N 2915236 installed)	
109	3760463	2	Ring, Retaining	
114		Ref	Tire and Wheel Assembly Options:	
114	1001100840	4	Tire and Wheel Assembly 1930ES (was p/n 4520326 & 4520565)	
114	1001100894	4	Tire and Wheel Assembly 2646ES/3246ES (was p/n 4520327 & 4520676)	
115	4740524	2	Thrustwasher M60	
116	4740564	2	Washer, Spindle Retaining	
	2780266	Ref	HUB ASSEMBLY	B
		Ref	Note: Qty's shown for 1 Assembly. Two Assemblies required	

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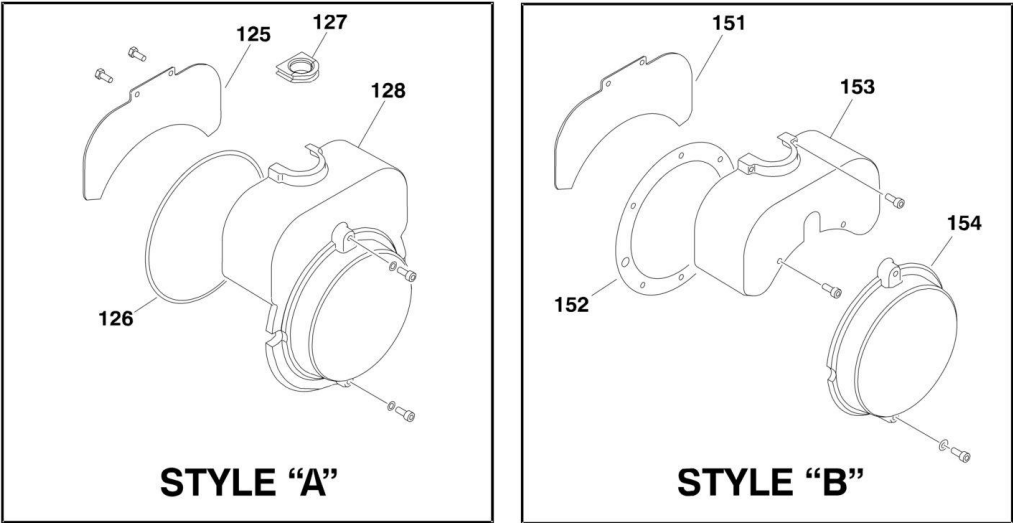
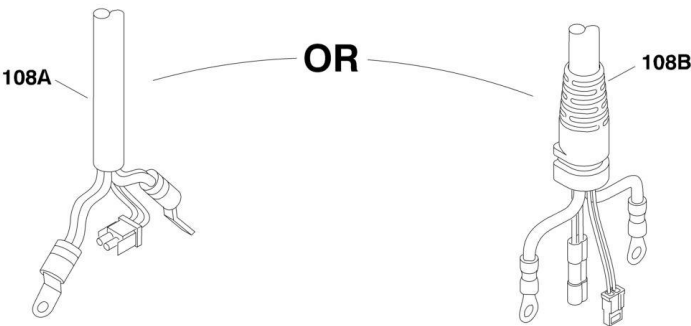
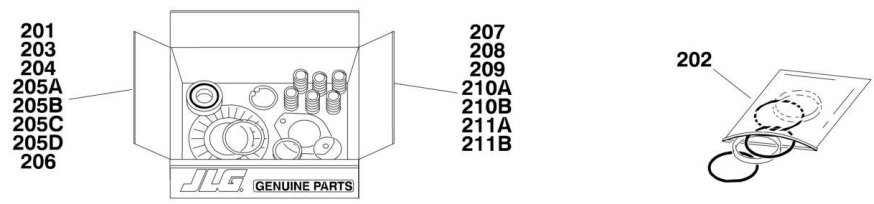
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			per machine.	
201	7012524	1	Cap, Dust	
202	7010641	1	Nut, Slotted	
203	7010642	1	Pin, Cotter 2in x 3/16in	
204	7019697	1	Washer	
205	7026185	1	Bearing, Cone - Outer	
206	Not Available	1	Hub (Purchase Complete Hub p/n 2780266)	
207	7026183	1	Bearing, Cone - Inner	
208	7026184	1	Seal	
		Ref	FRAME WELDMENTS	
301		Ref	Bushing Options:	
301	0440264	2	Bushing 1930ES	
301	0440265	2	Bushing 2646ES/3246ES	
302		Ref	Kingpin Rework Instruction Options (Provides rework procedure for damaged kingpins):	
302	3128601	AR	Kingpin Rework Instruction 1930ES/2030ES/2630ES	
302	3128703	AR	Kingpin Rework Instruction 2646ES/3246ES	

SECTION 1 - FRAME

FIGURE 1-3. WHEEL DRIVE ASSEMBLY



SECTION 1 - FRAME



SECTION 1 - FRAME

FIGURE 1-3. WHEEL DRIVE ASSEMBLY

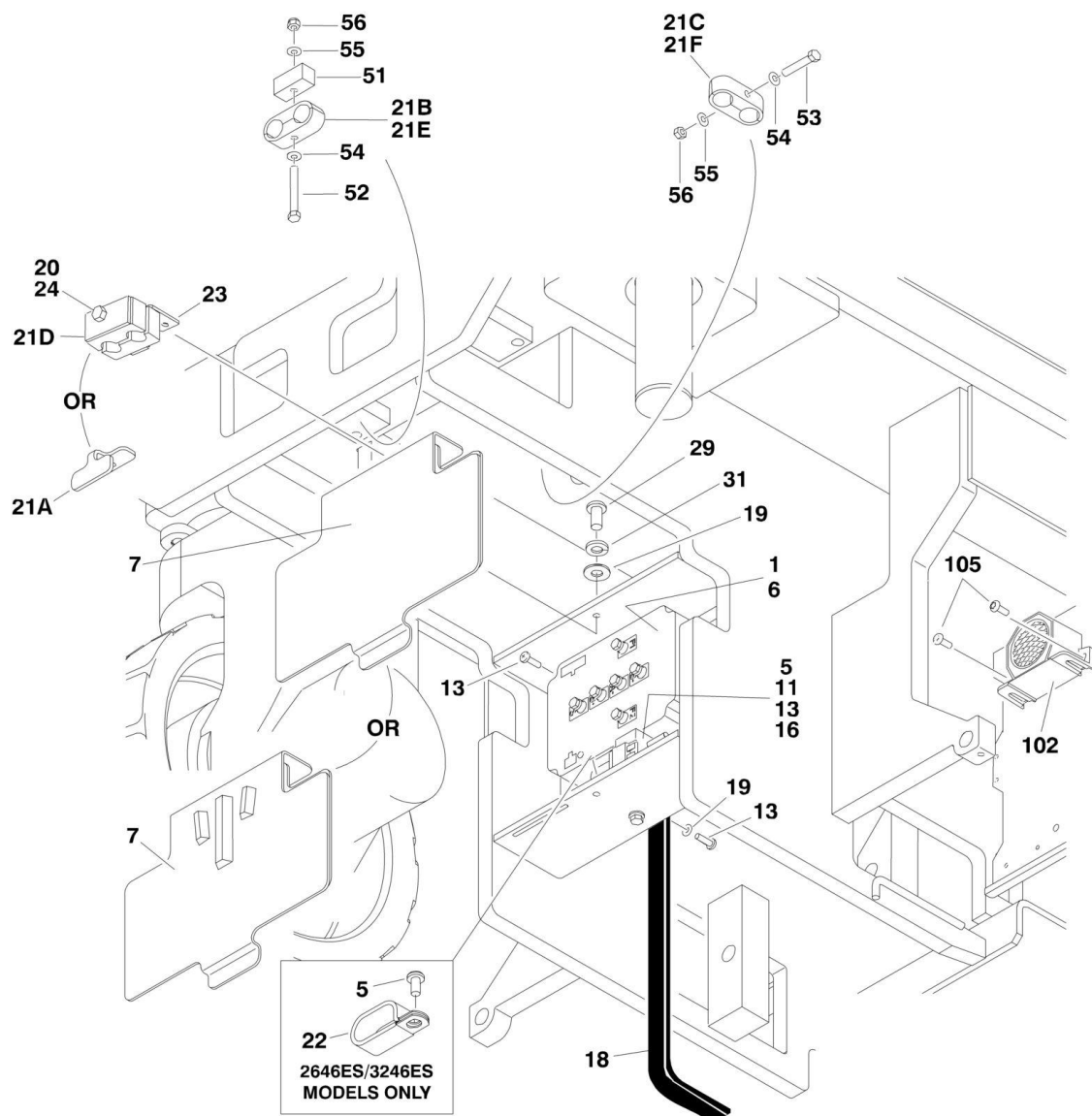
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	WHEEL DRIVE ASSEMBLY (ADVANCED)	
	3160306	Ref	Wheel Drive Assembly 1930ES	E
	3160307	Ref	Wheel Drive Assembly 2030ES/2630ES/2646ES/3246ES	E
		Ref	Note: Due to service updates, drive motors may use any of the various parts listed below. Visual identification will be required.	
		Ref	Hub Assembly	
1	Not Available	1	Spindle	
2	Item 206	1	Hub	
3	Item 204	1	Ring, Input	
4	Item 203	1	Gear, Input Sun	
5	Item 203	3	Gear, Input Planet	
6	Item 203	3	Pin, Planet Gear	
7	Item 203	1	Carrier	
8	Item 203	1	Gear, Output Sun	
9	Item 207	3	Gear, Output Planet	
10	Item 207	3	Pin, Output Planet	
11	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	Item 207	1	Bearing, Shaft	
16	70001739	1	Seal, Lip	
17	7024786	1	Seal, Lip	
18	Item 203	3	Ring, Retaining	
19	Item 201	1	Ring, Retaining	
20	70000191	1	O-Ring	
21	Item 201	1	Thrustwasher	
23	Item 203	1	Plate, Thrust	
24	Item 203	1	Ring, Retaining	
25	See Note	9	Thrustwasher (Note: Use Item 203 or 207)	
26	See Note	AR	Bearing/Bushing Options: (Note: Use Item 203 or 207)	
26A		Ref	Bearing, Needle	
26B		Ref	Bushing	
27	See Note	1	Ring, Retaining (Note: Use Item 204, 206 or 207)	
28	Item 207	1	Ring, Retaining	
29	Item 201	2	Plug	
32	Item 207	3	Washer, Tanged	
		Ref	BRAKE AND MOTOR COMPONENTS	
103	Item 208	1	Brush and Terminal Assembly	
104	70000790	2	Spring, Brush	
105	70000791	1	Box, Brush	
106	Item 208	1	Ring, Retaining	
107	Item 208	1	Bearing	
108		Ref	Harness, Electrical Cable Options:	
108A	1001099628	1	Harness, Electrical Cable 1930ES (was p/n 7024770)	
108A	1001099676	1	Harness, Electrical Cable 2030ES/2630ES/2646ES/3246ES (was p/n 7024770 & 7024775)	
108B	1001091502	1	Harness, Electrical Cable 1930ES	
108B	1001134012	1	Harness, Electrical Cable 2030ES/2630ES/2646ES/3246ES	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			(was p/n 1001091843)	
109	70000792	1	Commutator	
110	Item 209	1	Disc, Reaction	
111	7024785	1	Disc, Friction	
112	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)	
		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)	
		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		Ref	Motor Kit Options (Includes Items 13, 17, 103-114 & 151-154):	
205		Ref	Motors with Item #108A Style Electrical Cable	
205A	1001100819	1	Motors with Item #108A Style Electrical Cable 1930ES (was p/n 7024774)	
205B	1001100820	1	Motors with Item #108A Style Electrical Cable 2030ES/2630ES/2646ES/3246ES (was p/n 7024777)	
205		Ref	Motors with Item #108B Style Electrical Cable	
205C	70001263	1	Motors with Item #108B Style Electrical Cable 1930ES	
205D	70001345	1	Motors with Item #108B Style Electrical Cable 2030ES/2630ES/2646ES/3246ES	
206	7024756	1	Hub Kit (Includes Items 2, 16, 20, 27 & Qty 1 of Item 14)	
207	7024750	1	Output Planet Kit (Includes Items 9, 10, 15, 20, 25-28, 32 & Qty 1 of Item 14)	
208	7024771	1	Motor Brush and Bearing Kit (Includes Items 103, 106 & 107)	
209	7024772	1	Brake Kit (Includes Items 110, 111 & 112)	
210		Ref	Motor Hardware Kit (Includes 113 & 114)	
210A	7024773	1	Motor Hardware Kit 1930ES	
210B	7024776	1	Motor Hardware Kit 2030ES/2630ES/2646ES/3246ES	
211		Ref	Brake Cover Kit Options:	
211A	7024787	1	Style "A" (Includes Items 125 - 128)	
211B	70001265	1	Style "B" (Includes Items 151 - 154)	

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FIGURE 1-4. FRAME MOUNTED COMPONENTS



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FIGURE 1-4. FRAME MOUNTED COMPONENTS

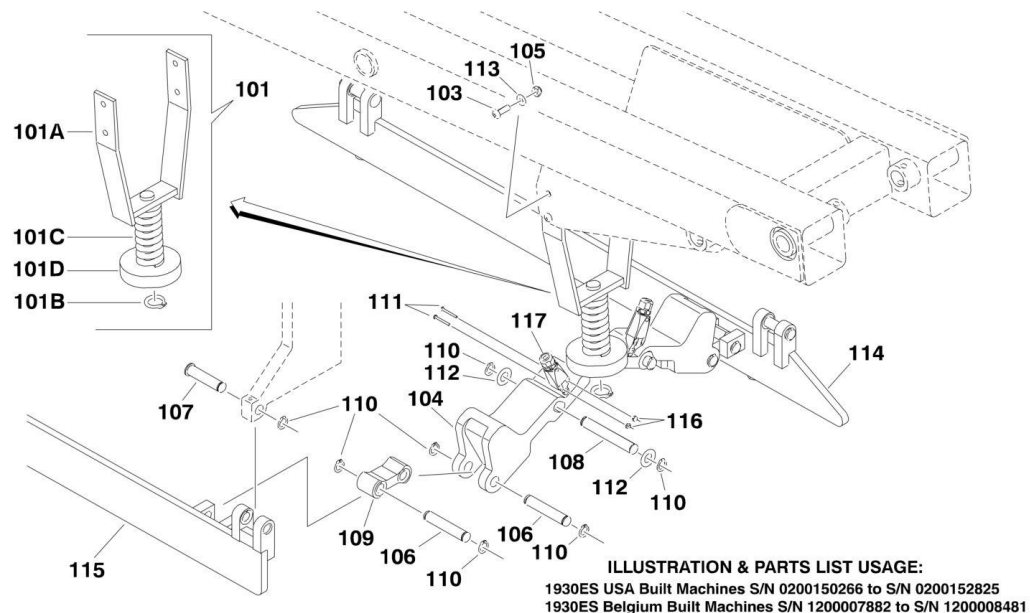
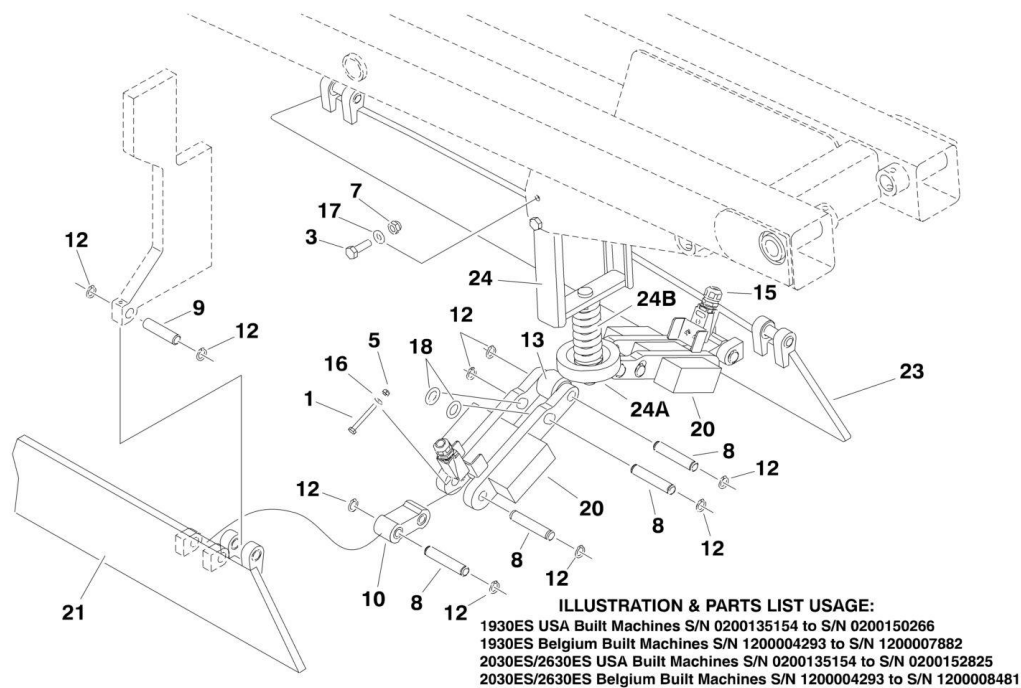
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CONTROLLER INSTALLATION	
		Ref	Controller Installation 1930ES:	
		Ref	All except UL Spec	
	0272710	Ref	USA Built Machines (SN 0200135154 through 0200150265)	O
	0272710	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	O
	0275185	Ref	USA Built Machines (SN 0200150266 through 0200152825)	B
	0275185	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	B
		Ref	UL Spec	
	0274224	Ref	USA Built Machines (SN 0200135154 through 0200150265)	F
	0274224	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	F
	0275188	Ref	USA Built Machines (SN 0200150266 through 0200152825)	B
	0275188	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	B
		Ref	Controller Installation 2030ES/2630ES:	
	0272711	Ref	All except UL Spec	O
	0274225	Ref	UL Spec	F
		Ref	Controller Installation 2646ES/3246ES:	
		Ref	All except UL Spec	
	0273008	Ref	USA Built Machines (SN 0200135154 through 0200151605)	P
	0273008	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	P
	0275187	Ref	USA Built Machines (SN 0200151606 through 0200152825)	A
	0275187	Ref	Belgium Built Machines (SN 1200008265 through 1200008481)	A
		Ref	UL Spec	
	0274226	Ref	USA Built Machines (SN 0200135154 through 0200151605)	F
	0274226	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	F
	0275190	Ref	USA Built Machines (SN 0200151606 through 0200152825)	A
	0275190	Ref	Belgium Built Machines (SN 1200008265 through 1200008481)	A
1	0100083	AR	Grease, Heat Transfer	
5	4191706	AR	Bolt M6 x 12mm	
6	1600346	1	Module, Control	
7		Ref	Cover Options:	
7		Ref	Cover 1930ES/2030ES/2630ES	
7	1671132	1	All except UL Spec	
7	1671181	1	UL Spec	
7		Ref	Cover 2646ES/3246ES	
7	1671133	1	All except UL Spec	
7	1671182	1	UL Spec	
11		Ref	Relay Options:	
11		Ref	All except UL Spec	
11	2915064	1	USA Built Machines (SN 0200135154 through 0200138062)	
11	2915064	1	Belgium Built Machines (was p/n 3740146) (SN 1200004293 through 1200004865)	
11	0903098	1	Mounting Bracket Used on 3740146	
11	3740150	1	USA Built Machines (SN 0200138063 through 0200152825)	
11	3740150	1	Belgium Built Machines (SN 1200004866 through	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			1200008481)	
11	3740146	1	UL Spec	
11	0903098	1	Mounting Bracket	
		Ref	Note: Relay p/n 3740146 Albright or Curtis brand has 4 terminals and no lead wires. Relay p/n 3740150 is Trombetta brand has 2 terminals and 1 lead wire.	
13	4191708	AR	Bolt M6 x 20mm	
16	4811700	AR	Flatwasher M6	
18	4240147	1	Strap, Anti-Static	
19	4751400	AR	Flatwasher 1/4in Wide	
20	0700819	1	Bolt M8 x 55mm (UL Spec Only)	
21		Ref	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.	
21		Ref	Non-UL Spec	
21A	3574714	1	Clamp (Available on All Models)	
21B	1001091492	1	Clamp (Used as part of Service Update on 1930ES)	
21C	1001094301	2	Clamp (Used as part of Service Update on 2030ES/2630ES/2646ES/3246ES)	
21		Ref	UL Spec	
21D	1320162	1	Clamp (Available on All Models)	
21E	1001091492	1	Clamp (Used as part of Service Update on 1930ES)	
21F	1001094301	2	Clamp (Used as part of Service Update on 2030ES/2630ES/2646ES/3246ES)	
22	1321283	1	Clamp, Hose (2646ES/3246ES Only)	
23	4340751	1	Mount, Cable Clamp (UL Spec Only)	
24	4811900	1	Flatwasher M8 (UL Spec Only)	
29	4191709	1	Bolt M6 x 25mm	
31	4831700	1	Lockwasher M6	
		Ref	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	
54	4751400	AR	Flatwasher 1/4in Wide	
55	4811700	AR	Flatwasher M6	
56	3290606	AR	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
102	0140043	1	Alarm	
105	4191706	2	Screw M6 x 12mm	

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



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

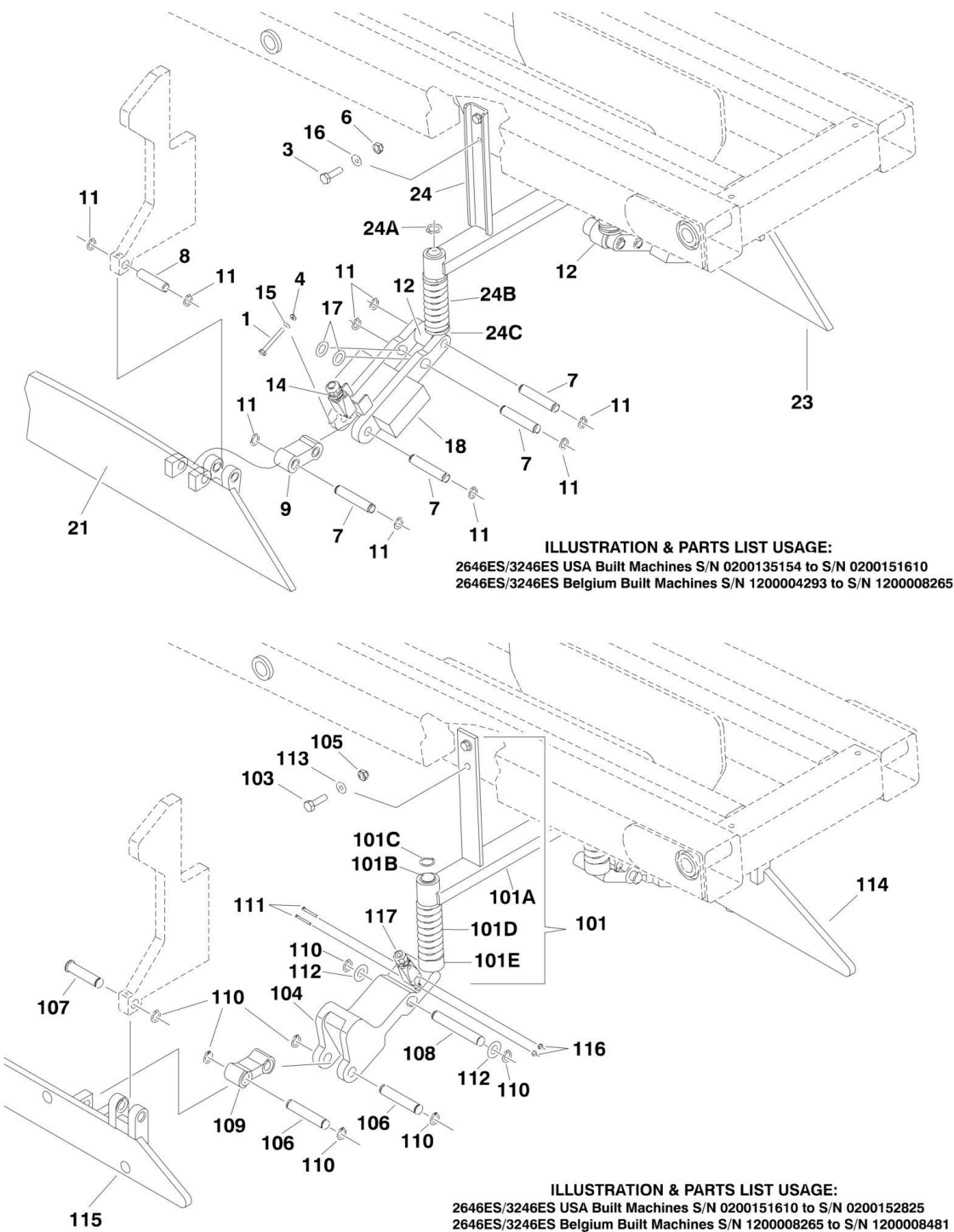
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	POTHOLE PROTECTION INSTALLATION	
	0272757	Ref	Pothole Protection Installation 1930ES USA Built Machines (SN 0200135154 through 0200150265)	K
	0272757	Ref	Pothole Protection Installation 1930ES Belgium Built Machines (SN 1200004293 through 1200007881)	K
	0272758	Ref	Pothole Protection Installation 2030ES/2630ES USA Built Machines (SN 0200135154 through 0200152825)	K
	0272758	Ref	Pothole Protection Installation 2030ES/2630ES Belgium Built Machines (SN 1200004293 through 1200008441)	K
1	4010415	4	Screw M4 x 35mm	
3	0701014	4	Screw M10 x 30mm	
5	3290405	4	Locknut M4	
7	3291005	6	Locknut M10	
8	3423045	8	Pin	
9	3423189	4	Pin (was p/n 3423046)	
10	3574176	2	Link	
10	0440263	4	Bushing	
12	3760348	20	Ring, Retaining	
13	3860108	2	Roller	
15	1001109345	2	Switch, Limit (was p/n 4360536 & 4360607)	
16	4750800	8	Flatwasher (Wide)	
17	4812000	4	Flatwasher M10	
18	4740086	8	Thrustwasher	
20	4846774	2	Link	
21		Ref	Support (Right) Options:	
21	4846775	1	Support (Right) 1930ES	
21	4846816	1	Support (Right) 2030ES/2630ES	
21	0440263	4	Bushing	
23		Ref	Support (Left) Options:	
23	4846861	1	Support (Left) 1930ES	
23	4846863	1	Support (Left) 2030ES/2630ES	
23	0440263	4	Bushing	
24	0060083	1	Actuator Assembly	A
24	4846773	1	Actuator	
24A	1440333	1	Collar, Actuator	
24A	3760115	1	Ring, Retaining	
24B	4160202	1	Spring	
	0275092	Ref	Pothole Protectionm Installation 1930ES USA Built Machines (SN 0200150266 through 0200152825)	C
	0275092	Ref	Pothole Protectionm Installation 1930ES Belgium Built Machines (SN 1200007882 through 1200008481)	C
101	See Note	1	Actuator Assembly (Was p/n 0060090) (Note: Purchase Individual Pieces)	A
101A	0060091	1	Actuator Weldment	
101B	3760115	1	Ring, Retaining	
101C	4160202	1	Spring	
101D	4220287	1	Pad	
103	3900351	4	Screw, Button Head M10 x 30mm	
104	3010158	2	Link	
105	3291005	4	Locknut M10	
106	3423045	4	Pin	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
107	3423189	4	Pin	
108	3423267	2	Pin	
109	3574176	2	Link	
109	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)	
114	0440263	4	Bushing	
115	4846861	1	Bar, Pothole Support (Left)	
115	0440263	4	Bushing	
116	3290405	4	Locknut M4	
117	See Note	2	Switch, Limit (Note: See ELECTRICAL SECTION)	

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



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

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	POTHOLE PROTECTION INSTALLATION	
	0272759	Ref	USA Built Machines (SN 0200135154 through 0200151609)	J
	0272759	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	J
1	4010415	4	Screw M4 x 35mm	
3	0701015	4	Screw M10 x 35mm	
4	3290405	4	Locknut M4	
6	3291005	6	Locknut M10	
7	3423045	8	Pin	
8	3423189	4	Pin (was p/n 3423046)	
9	3574176	2	Link	
9	0440263	4	Bushing	
11	3760348	20	Ring, Retaining	
12	3860108	2	Roller	
14	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	
21	4846811	1	Support (Right)	
21	0440263	4	Bushing	
23	4846862	1	Support (Left)	
23	0440263	4	Bushing	
24	0060082	1	Actuator Assembly	A
24	4846810	1	Actuator	
24	0962292	4	Bushing, Garmax	
24A	3760115	2	Ring, Retaining	
24B	4160202	2	Spring	
24C	4846788	2	Plunger	
	0275094	Ref	USA Built Machines (SN 0200151610 through 0200152825)	C
	0275094	Ref	Belgium Built Machines (SN 1200008265 through 1200008481)	C
101	See Note	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	
103	0701015	4	Screw M10 x 35mm	
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	
109	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)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
114	0440263	4	Bushing	
115	4846862	1	Bar, Pothole Support (Left)	
115	0440263	4	Bushing	
116	3290405	4	Locknut M4	
117	See Note	2	Switch, Limit (See ELECTRICAL SECTION for Breakdown)	

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

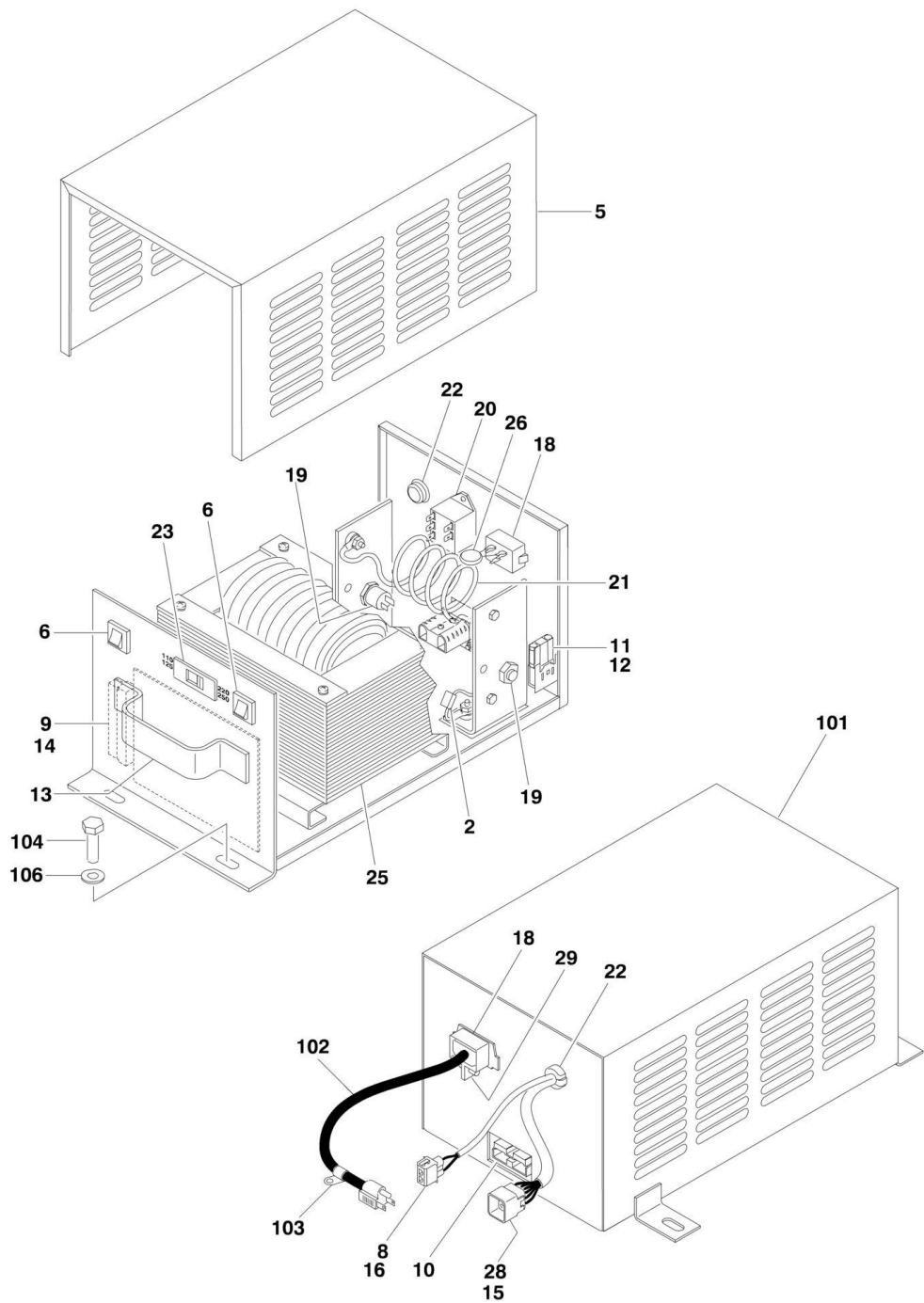


FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (MAC CHARGER WITH BREAKERS ON END)

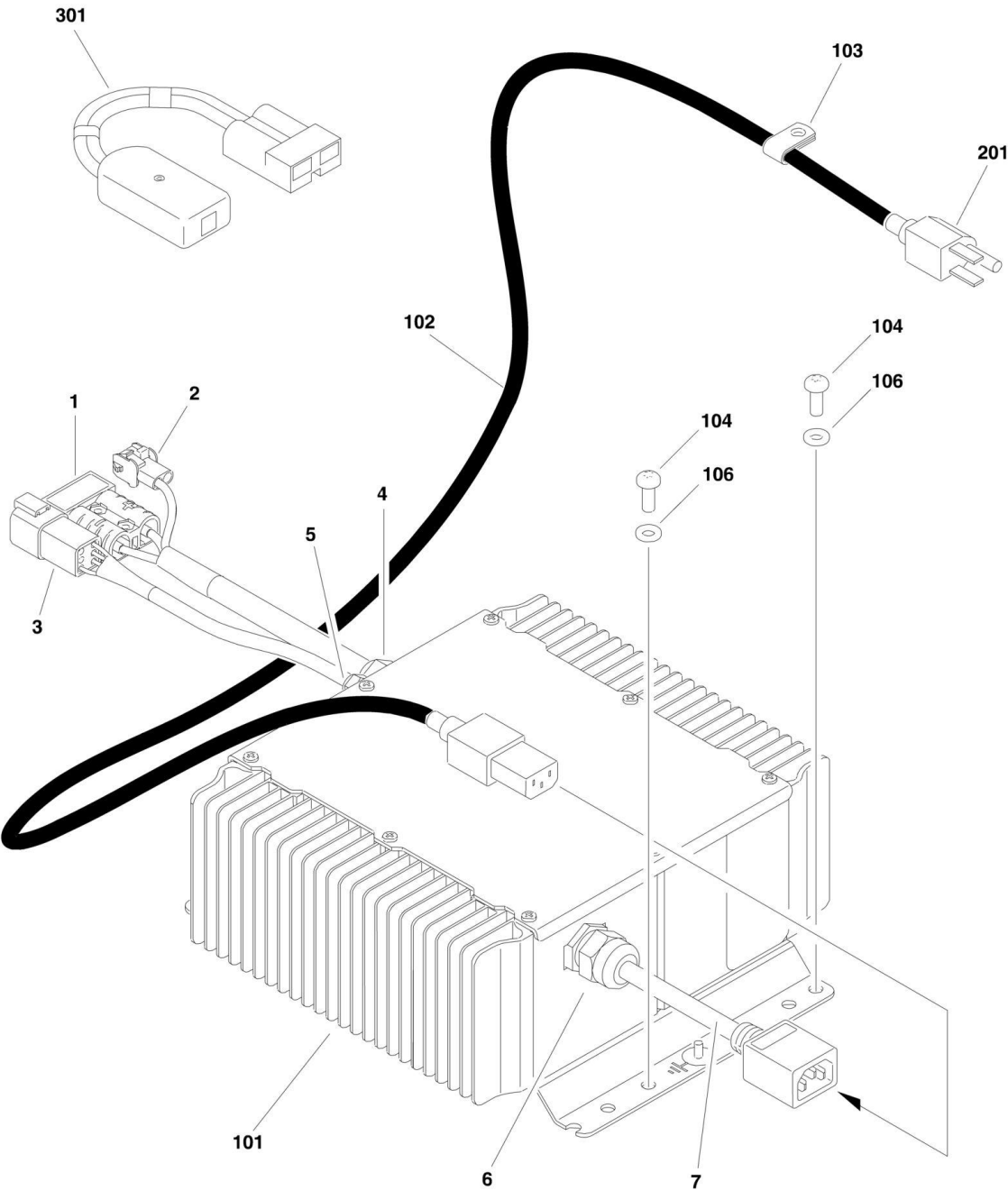
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BATTERY CHARGER ASSEMBLY	
	0400220	Ref	All Specs Except Japanese Spec	B
	0400221	Ref	Japanese Specs Only	B
2	7018577	2	Capacitor	
5		Ref	Case Cover, Replacement Options:	
5	7022951	1	All Specs Except Japanese Spec	
5	7022958	1	Japanese Specs Only	
6		Ref	Circuit Breaker, AC Options:	
6	7018514	2	All Specs Except Japanese Spec	
6	7018597	1	Japanese Specs Only	
8	4460227	1	Receptacle, Female -2 Position (Was p/n 7011621)	
8	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)	
18	7022957	1	Plug, Inlet	
19	7020673	1	Rectifier	
20	7018564	1	Relay	
21	7020674	1	Shunt Assembly	
22		Ref	Connector, Strain Relief Options:	
22	7022947	1	All Specs Except Japanese Spec	
22	7011528	1	Japanese Specs Only	
23	7018586	1	Switch, Slide	
25		Ref	Transformer Options:	
25	7022948	1	All Specs Except Japanese Spec	
25	7022959	1	Japanese Specs Only	
26		Ref	Varistor Assembly Options:	
26	7018589	1	All Specs Except Japanese Spec	
26	7020603	1	Japanese Specs Only	
27	Not Available		Varistor	
28	4460899	1	Receptacle, Female - 6 Position	
28	4460464	6	Pin, Male	
29	70002271	1	Relief, Strain	
		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		Ref	Battery Charger Assembly Options (See Items 1-28 for Breakdown):	
101	0400220	1	All Specs Except Japanese Specs	
101	0400221	1	Japanese Specs Only	
102		Ref	Cable, AC Options:	
102	1060688	1	Factory Supplied Plug	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102	1060689	1	Locally Supplied Plug	
103	1321293	1	Clamp	
104	4191707	2	Screw M6 x 16mm	
106	4811700	2	Flatwasher M6	

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



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

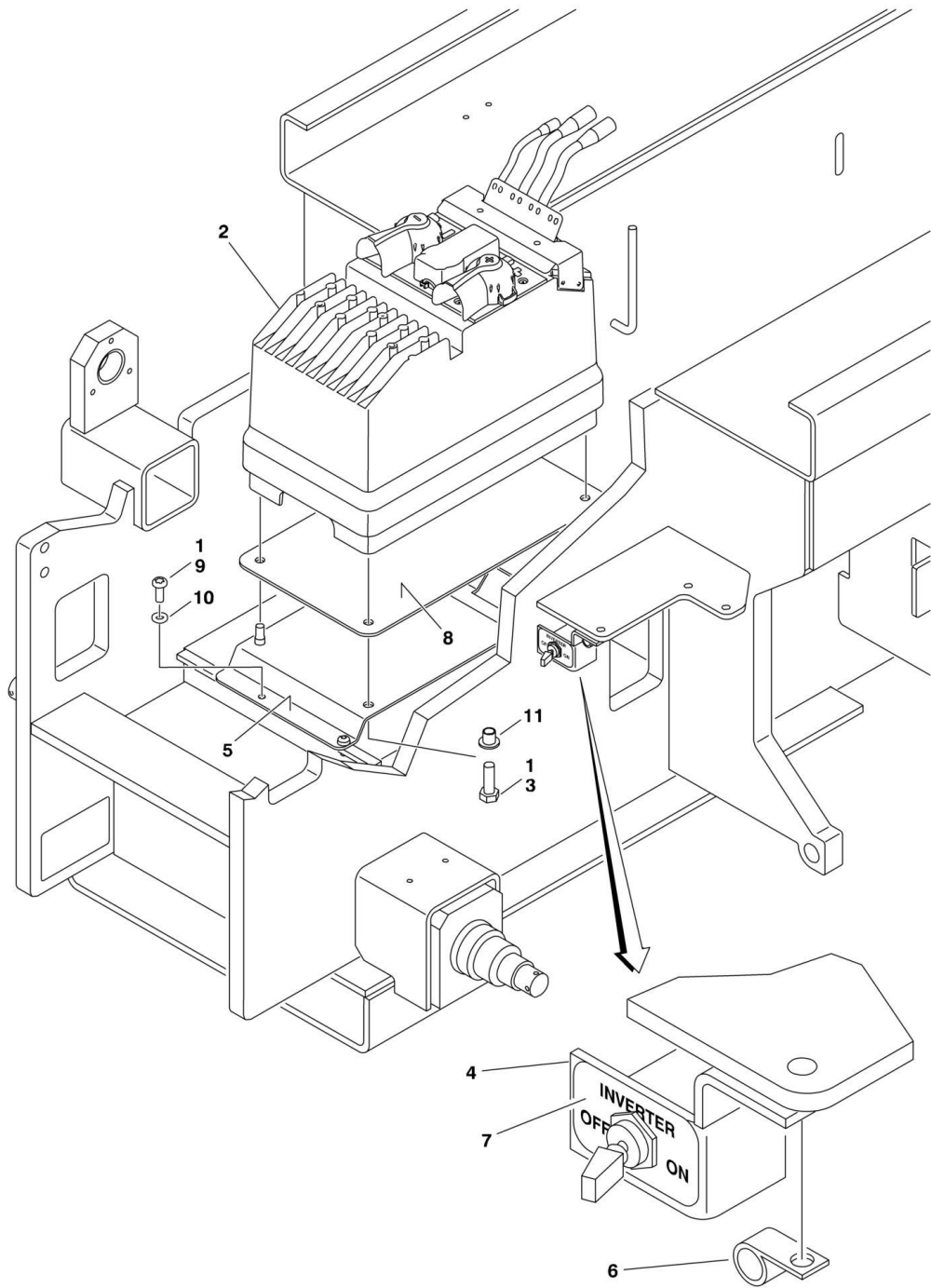
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BATTERY CHARGER ASSEMBLY	
1	Not Available	1	Harness with Plug	
1	4460648	1	Plug, Anderson Battery Cable	
2	Not Available	1	Harness with Connector	
2	4460424	1	Connector, Female - 2 Position	
2	4460227	2	Pin, Male	
3	Not Available	1	Harness with Connector	
3	4460899	1	Connector, Female - 6 Position	
3	4460464	6	Pin, Male	
4	Not Available	1	Connector, Strain Relief	
5	Not Available	1	Connector, Strain Relief	
6	Not Available	1	Connector, Strain Relief	
7	Not Available	1	Harness with Connector	
		Ref	BATTERY CHARGER INSTALLATION	
		Ref	Battery Charger Installation 1930ES USA Built Machines (SN 0200135154 through 0200150265)	
		Ref	Battery Charger Installation 1930ES Belgium Built Machines (SN 1200004293 through 1200007881)	
	0272874	Ref	AC Cable Has Factory Supplied Plug	H
	0272875	Ref	AC Cable Has Locally Supplied Plug	H
		Ref	Battery Charger Installation 1930ES USA Built Machines (SN 0200150266 through 0200152825)	
		Ref	Battery Charger Installation 1930ES Belgium Built Machines (SN 1200007882 through 1200008481)	
	0275079	Ref	AC Cable Has Factory Supplied Plug	B
	0275088	Ref	AC Cable Has Locally Supplied Plug	B
		Ref	Battery Charger Installation 2030ES/2630ES/2630ES/2646ES/3246ES:	
	0272874	Ref	AC Cable Has Factory Supplied Plug	H
	0272875	Ref	AC Cable Has Locally Supplied Plug	H
101	1001128737	1	Battery Charger Assembly (was p/n 0400238 - Kit p/n 1001128737 includes Charger p/n 100112111 and Battery Temperature Sensor Kit)	
102		Ref	Cable, AC Options:	
102	1060688	1	Factory Supplied Plug	
102	1060689	1	Locally Supplied Plug	
103		Ref	Clamp Options:	
103	1320136	1	Insulated Clamp	
103	1321293	1	Non-Insulated Clamp	
104		Ref	Screw M6 Options:	
104	4191706	AR	12mm Length	
104	4191707	AR	16mm Length	
106	4811700	2	Flatwasher M6	
201		Ref	Plug Options:	
201	Not Available	Ref	ANSI Spec Plug (Use Item 102 p/n 1060688)	
201	Not Available	Ref	Australian and Japanese Specs (Purchase Locally)	
201		Ref	CE Spec Options:	
201	0275666	Ref	IEC Yellow Receptacle Installation	A
201	4461196	Ref	Receptacle, IEC Yellow	
201	0275667	Ref	IEC Blue Receptacle Installation	A
201	4461199	Ref	Receptacle, IEC Blue	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	0275665	Ref	AFSINT 107 Keyed Ground Receptacle Installation	A
201	4461249	Ref	Receptacle, AFSINT 107 Keyed Ground	
201	0275663	Ref	CEE 7 Post Ground Receptacle Installation	A
201	4461202	Ref	Receptacle, CEE 7 Post Ground	
201	0275664	Ref	CEE 7 Side Ground Receptacle Installation	A
201	4461205	Ref	Receptacle, CEE 7 Side Ground	
301	2915230	1	BATTERY CHARGER REPROGRAM CONTROLLER KIT (was p/n 1600466)	

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



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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	Battery Charger Assembly 1930ES USA Built Machines (SN 0200135154 through 0200150265)	A
	0275103	Ref	Battery Charger Assembly 1930ES USA Built Machines (SN 0200150266 through 0200152825)	C
	0275104	Ref	Battery Charger Assembly 2030ES/2630ES	B
	0275105	Ref	Battery Charger Assembly 2646ES/3246ES	B
1	0100011	AR	Compound, Locking	
2	1001093839	1	Charger/Inverter Assembly (was p/n 0400237)	
3		Ref	Hardware Options:	
3	0760812	4	Bolt M8 x 25mm	
3	0760814	4	Bolt M8 x 30mm	
3	3290805	4	Nut M8	
4	0902780	1	Bracket, Mounting (Remote Switch)	
5		Ref	Bracket, Mounting (Charger/Inverter) Options:	
5		Ref	Bracket, Mounting 1930ES	
5	0903410	1	USA Built Machines (SN 0200135154 through 0200150265)	
5	0903444	1	USA Built Machines (SN 0200150266 through 0200152825)	
5	0903319	1	Bracket, Mounting 2030ES/2630ES/2646ES/3246ES	
6	1320043	1	Clamp	
7	1705052	1	Decal - On/Off	
8	2820239	1	Insulation, Charger Mounting	
9		Ref	Screw M6 Options:	
9	4191706	AR	12mm Length	
9	4191707	AR	16mm Length	
10	4811700	2	Flatwasher M6	
11	4740562	4	Washer, Special	
18	1706749	1	Decal - Inverter (Not Shown - Located on Frame Near Inverter)	
19		Ref	Decal - Hazardous Voltage Options (Not Shown - Located on Platform Near AC Box):	
19	1706765	1	English Language	
19	1001136847	1	Spanish Language	

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

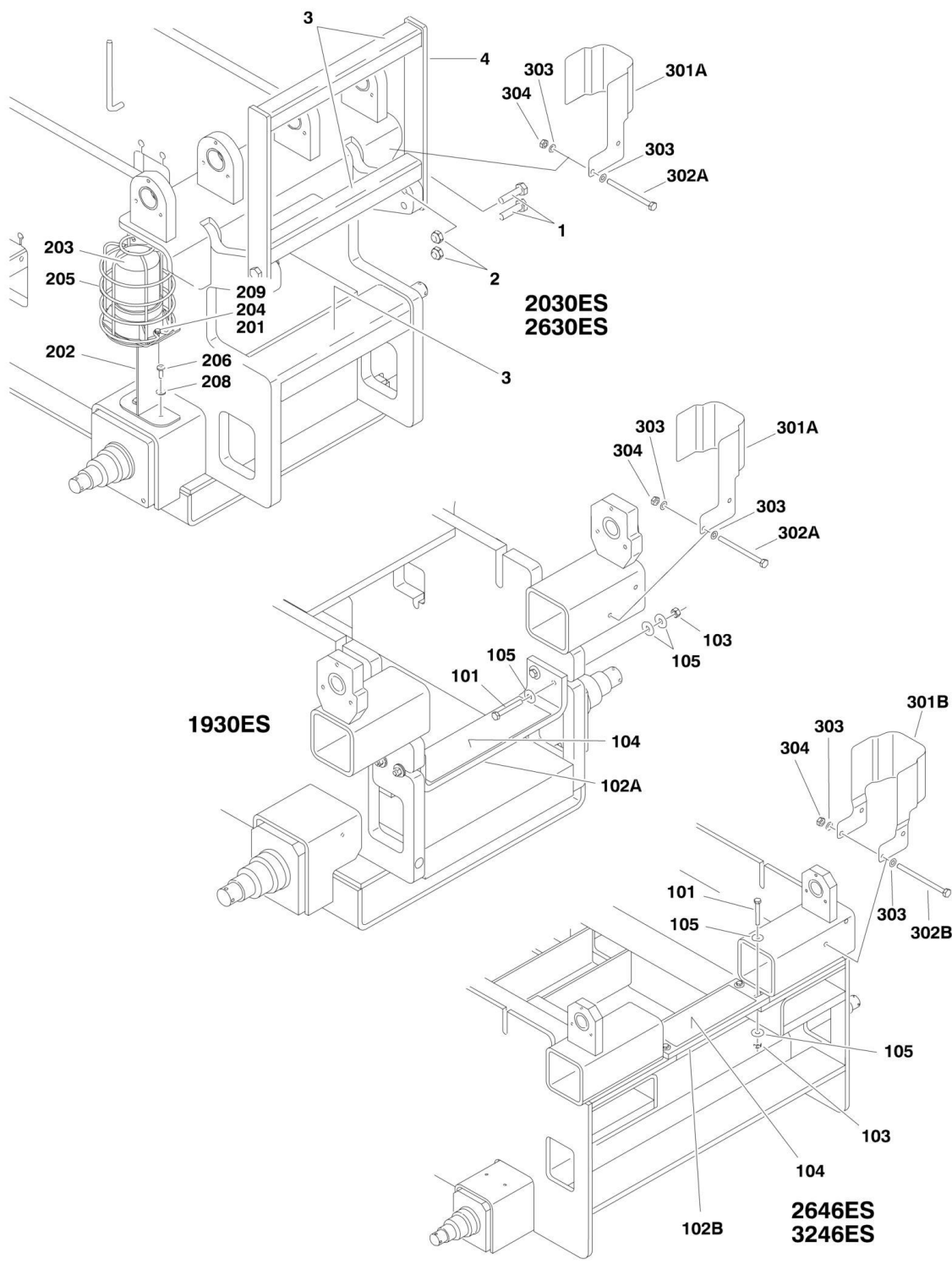


FIGURE 1-10. LADDERS, BEACON LIGHT AND ROTARY SENSOR COVER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LADDER INSTALLATIONS	
	0272887	Ref	Ladder Installations 2030ES	B
	0272888	Ref	Ladder Installations 2630ES	B
1	0701016	4	Bolt M10 x 40mm	
2	3291005	4	Locknut M10	
3	4420070	3	Tape, Anti-Skid	
4		Ref	Ladder Options:	
4	4846812	1	Ladder Options 2030ES	
4	4846813	1	Ladder Options 2630ES	
		Ref	LADDER INSTALLATIONS	
	0275120	Ref	Ladder Installtion 1930ES USA Built Machines (SN 0200150266 through 0200152825)	C
	0275120	Ref	Ladder Installtion 1930ES Belgium Built Machines (SN 1200007882 through 1200008481)	C
	0275212	Ref	Ladder Installtion 2646ES/3246ES USA Built Machines (SN 0200151606 through 0200152825)	C
	0275212	Ref	Ladder Installtion 2646ES/3246ES Belgium Built Machines (SN 1200008265 through 1200008481)	C
101		Ref	Bolt M6 Options:	
101	0700615	4	35mm Length	
101	0700617	4	45mm Length	
102		Ref	Ladder Options:	
102A	2930005	1	Ladder Options 1930ES	
102B	3576349	1	Ladder Options 2646ES/3246ES	
103		Ref	Locknut Options:	
103	3290605	4	Locknut Options 1930ES	
103	3290607	4	Locknut Options 2646ES/3246ES	
104	4420080	1	Tape, Anti-Skid	
105	4751400	AR	Flatwasher 1/4in Wide	
		Ref	BEACON LIGHT INSTALLATIONS	
	0272309	Ref	Beacon Light Installations 1930ES (Not Shown)	D
	0274012	Ref	Beacon Light Installations 2030ES/2630ES	B
	0272980	Ref	Beacon Light Installations 2646ES/3246ES	D
201	0760410	2	Bolt M4 x 20mm	
202		Ref	Bracket Options:	
202	0902905	1	Bracket 1930ES	
202	0903086	1	Bracket 2030ES/2630ES	
202	0902906	1	Bracket 2646ES/3246ES	
203	2920161	1	Light, Beacon	
203	7016319	1	Bulb, Replacement	
203	7016372	1	Len, Replacement	
204	3290405	2	Locknut M4	
205	4060865	1	Guard	
206	4191707	2	Screw M6 x 16mm	
208	4811700	AR	Flatwasher M6	
209	4750800	2	Flatwasher #8 (Wide)	
		Ref	ROTARY ANGLE SENSOR COVER KIT	
		Ref	Note: This kit is an optional after market add-on for USA Built Machines SN 0200117602 to Present Only and Belgium Built Machines SN 1200001665 to Present Only. Not Available on previous SNs due to changes in frame design. Kit also	

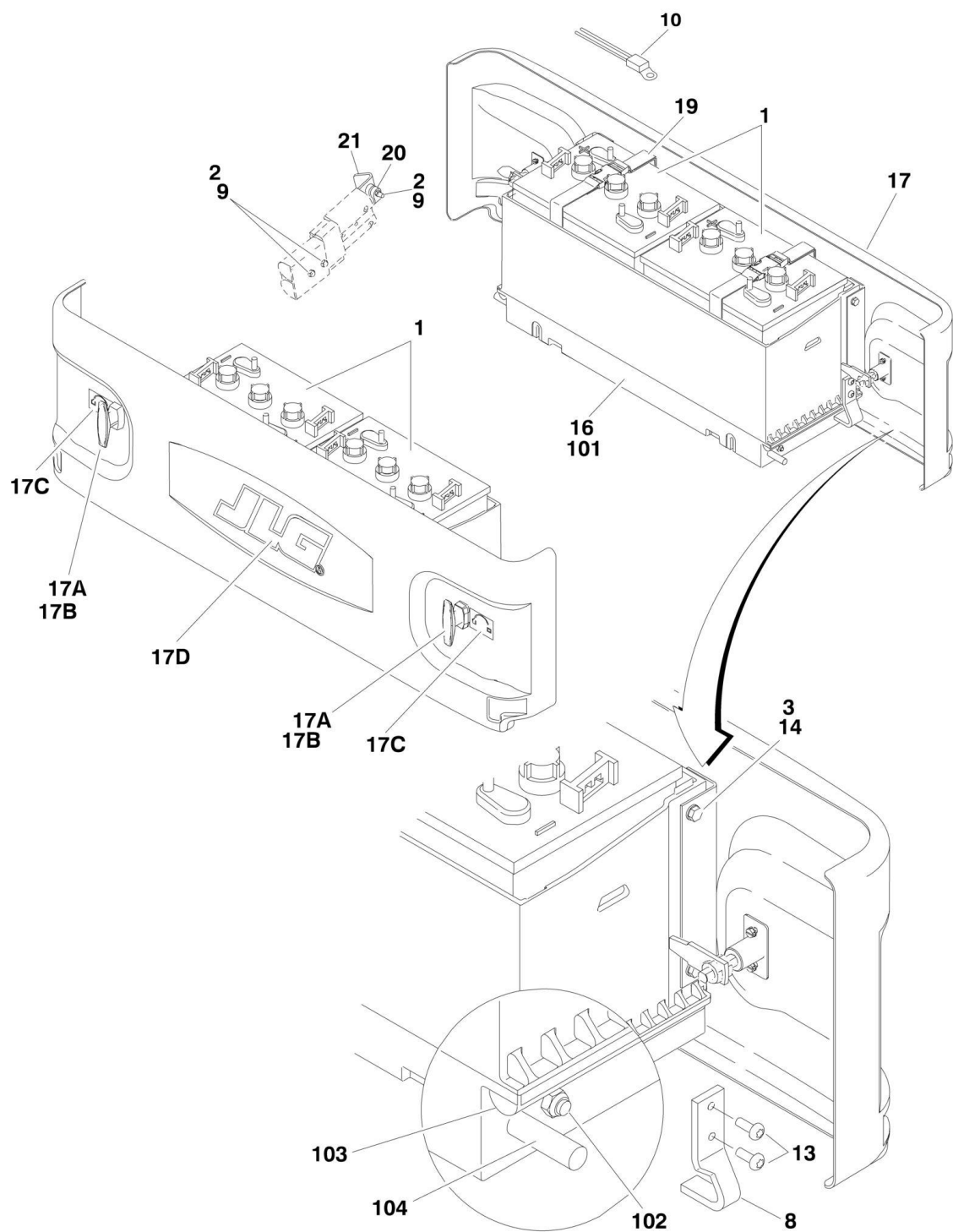
SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			includes instructions. Parts listed below are for service.	
	1001105108	Ref	Rotary Angle Sensor Cover Kit 1930ES/2030ES/2630ES	
	1001105109	Ref	Rotary Angle Sensor Cover Kit 2646ES/3246ES	
301		Ref	Cover Options:	
301A	1001103029	1	Cover for 1930ES/2030ES/2630ES	
301B	1001103030	1	Cover for 2646ES/3246ES	
302		Ref	Bolt M6 Options:	
302A	0760610	2	Bolt 20mm Length for 1930ES/2030ES/2630ES	
302B	0760612	2	Bolt 25mm Length for 2646ES/3246ES	
303	4811700	4	Flatwasher 6mm	
304	3290605	2	Locknut M6	

SECTION 2 - GROUND COMPONENTS

SECTION 2 - GROUND COMPONENTS

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	Batteries and Covers Installation, 1930ES with Standard Covers	
	0272719	Ref	USA Built Machines (SN 0200135154 through 0200150265)	M
	0272719	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	M
	0275020	Ref	USA Built Machines (SN 0200150266 through 0200152825)	B
	0275020	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	B
		Ref	Batteries and Covers Installation, 1930ES with Locking Covers	
	0274222	Ref	USA Built Machines (SN 0200135154 through 0200150265)	E
	0274222	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	E
	0275022	Ref	USA Built Machines (SN 0200150266 through 0200152825)	B
	0275022	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	B
		Ref	Batteries and Covers Installation, 1930ES (UL Spec) with Locking Covers	
	0274221	Ref	USA Built Machines (SN 0200135154 through 0200150265)	E
	0274221	Ref	Belgium Built Machines (SN 1200004293 through 1200007388)	E
	0275021	Ref	USA Built Machine - No Belgium Built Machines (SN 0200150266 through 0200152402)	B
	0275480	Ref	USA Built Machines (SN 0200152403 through 0200152825)	A
	0275480	1	Belgium Built Machines (SN 1200007389 through 1200008481)	
		Ref	Batteries and Covers Installation, 2030ES/2630ES/2646ES/3246ES with Standard Covers	
	0272827	Ref	USA Built Machines (SN 0200135154 through 0200151606)	L
	0272827	Ref	Belgium Built Machines (SN 1200004293 through 1200008374)	L
	0275020	Ref	USA Built Machines (SN 0200151607 through 0200152825)	B
	0275020	Ref	Belgium Built Machines (SN 1200008375 through 1200008481)	B
		Ref	Batteries and Covers Installation, 2030ES/2630ES/2646ES/3246ES with Locking Covers	
	0274215	Ref	USA Built Machines (SN 0200135154 through 0200151606)	D
	0274215	1	Belgium Built Machines (SN 1200004293 through 1200008374)	
	0275022	Ref	USA Built Machines (SN 0200151607 through 0200152825)	B
	0275022	Ref	Belgium Built Machines (SN 1200008375 through 1200008481)	B
		Ref	Batteries and Covers Installation, 2030ES/2630ES/2646ES/3246ES (UL Spec) with Locking Covers	
	0274214	Ref	USA Built Machines (SN 0200135154 through 0200151606)	D
	0274214	Ref	Belgium Built Machines (SN 1200004293 through 1200008374)	D
	0275021	Ref	USA Built Machines (SN 0200151607 through 0200152825)	B
	0275021	Ref	Belgium Built Machines (SN 1200008375 through 1200008481)	B
		Ref	EV Type with 244 AH Rating Batteries:	
		Ref	Batteries and Covers Installation, 2030ES/2630ES/2646ES/3246ES with Standard Covers	

SECTION 2 - GROUND COMPONENTS

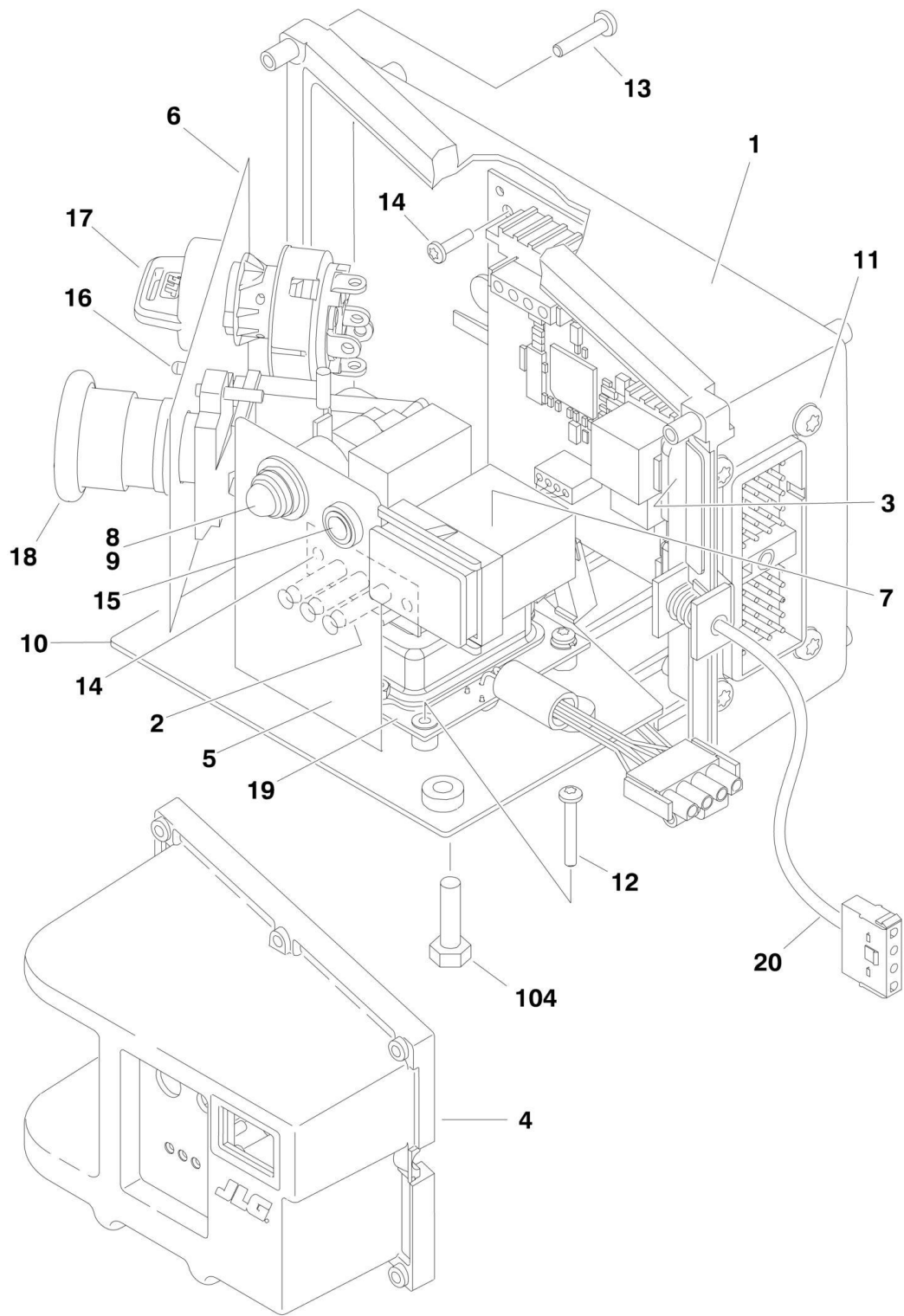
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272720	Ref	USA Built Machines (SN 0200135154 through 0200151606)	M
	0272720	1	Belgium Built Machines (SN 1200004293 through 1200008263)	
	0275042	Ref	USA Built Machines (SN 0200151607 through 0200152825)	C
	0275042	Ref	Belgium Built Machines (SN 1200008264 through 1200008481)	C
		Ref	Batteries and Covers Installation, 2030ES/2630ES/2646ES/3246ES with Locking Covers	
	0274217	Ref	USA Built Machines (SN 0200135154 through 0200151606)	E
	0274217	Ref	Belgium Built Machines (SN 1200004293 through 1200008263)	E
	0275044	Ref	USA Built Machines (SN 0200151607 through 0200152825)	C
	0275044	Ref	Belgium Built Machines (SN 1200008264 through 1200008481)	C
		Ref	Batteries and Covers Installation, 2030ES/2630ES/2646ES/3246ES (UL Spec) with Locking Covers	
	0274216	Ref	USA Built Machines (SN 0200135154 through 0200151606)	E
	0274216	Ref	Belgium Built Machines (SN 1200004293 through 1200008263)	E
	0275043	Ref	USA Built Machines (SN 0200151607 through 0200152825)	C
	0275043	Ref	Belgium Built Machines (SN 1200008264 through 1200008481)	C
1		Ref	Battery Options:	
1	0400215	4	GC Type with 225 AH Rating	
1	0400216	4	EV Type with 244 AH Rating (Not Available on 1930ES)	
2		Ref	Bolt M6 Options:	
2	0700615	AR	35mm Length	
2	4031713	AR	40mm Length	
3	0760610	8	Bolt M6 x 20mm	
8		Ref	Plate, Slide Stop Options:	
8	3574981		Left Side	
8	3574984		Right Side	
9	3290605	AR	Locknut M6	
10	1001127269	1	Temperature Sensor Kit (Includes Sensor, Wire Nut and Instructions)	
10	1001112113	1	Sensor, Temperature (Note: Used on machines with Battery Charger Replacement Kit p/n 1001128737 installed)	
		Ref	(Note: Used on machines with Battery Charger Replacement Kit p/n 1001128737 installed)	
13	4191707	8	Screw M6 x 16mm	
14	4811700	8	Flatwasher M6	
16		Ref	Tray Assembly Options (See Items 101-106 for Breakdown):	
16	0273698	2	USA and Belgium	
16	0861678	2	UL Spec	
17		Ref	Cover Options:	
17	1671202	2	Cover with Decals and Standard Latches	
17	1671204	2	Cover with Decals and Lockable Latches	
17	1671204	2	Cover, UL Spec with Decals and Lockable Latches	
17	1671203	1	Cover, Battery Less Decals and Latches	
		Ref	(Note: Must Purchase Decals and Latches Separately)	
17A		Ref	Latch Options (2 Per Cover):	
17A	2940174	4	Standard	
17A	2940175	4	Locking	
17A	7027863	4	Key	

SECTION 2 - GROUND COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17B	4750800	4	Flatwasher #8 (2 Per Cover) (was p/n 4071102 Shim)	E C
17C	1706350	2	Decal - Cover	
17D	1705754	1	Decal - JLG	
19	4240172	4	Strap, Battery (UL Spec)	
20	1321130	1	Clamp (UL Spec) (1930ES Only - USA Built Machines) (SN 0200152403 through 0200152825)	
20	1321130	1	Clamp (UL Spec) (1930ES Only - Belgium Built Machines) (SN 1200007389 through 1200008481)	
21	2560205	1	Handle, Disconnect (UL Spec) (1930ES Only - USA Built Machines) (SN 0200152403 through 0200152825)	
21	2560205	1	Handle, Disconnect (UL Spec) (1930ES Only - Belgium Built Machines) (SN 1200007389 through 1200008481)	
		Ref	TRAY ASSEMBLY OPTIONS:	
	0273698	Ref	USA and Belgium	
	0861678	Ref	UL Spec	
101	See Note	1	Tray, Battery (Note: Purchase Item 16)	
102	3290605	2	Locknut	
103	3340975	2	Pad, Wear (Note: Wear Pad not available separately from Tray Assembly on some applications.)	
104		Ref	Stop, Battery Box Options:	
		Ref	NOTE: Requires (2) 3820032 Rivet and (1) 4811600 Washer	
104	4220252	1	Stop, Battery Box, LH (Was p/n 4220208)	
104	4220253	1	Stop, Battery Box, RH (Was p/n 4220208)	
105	3820032	AR	Rivet (Not Shown)	
106	4811600	AR	Washer (Not Shown)	

SECTION 2 - GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY AND INSTALLATION



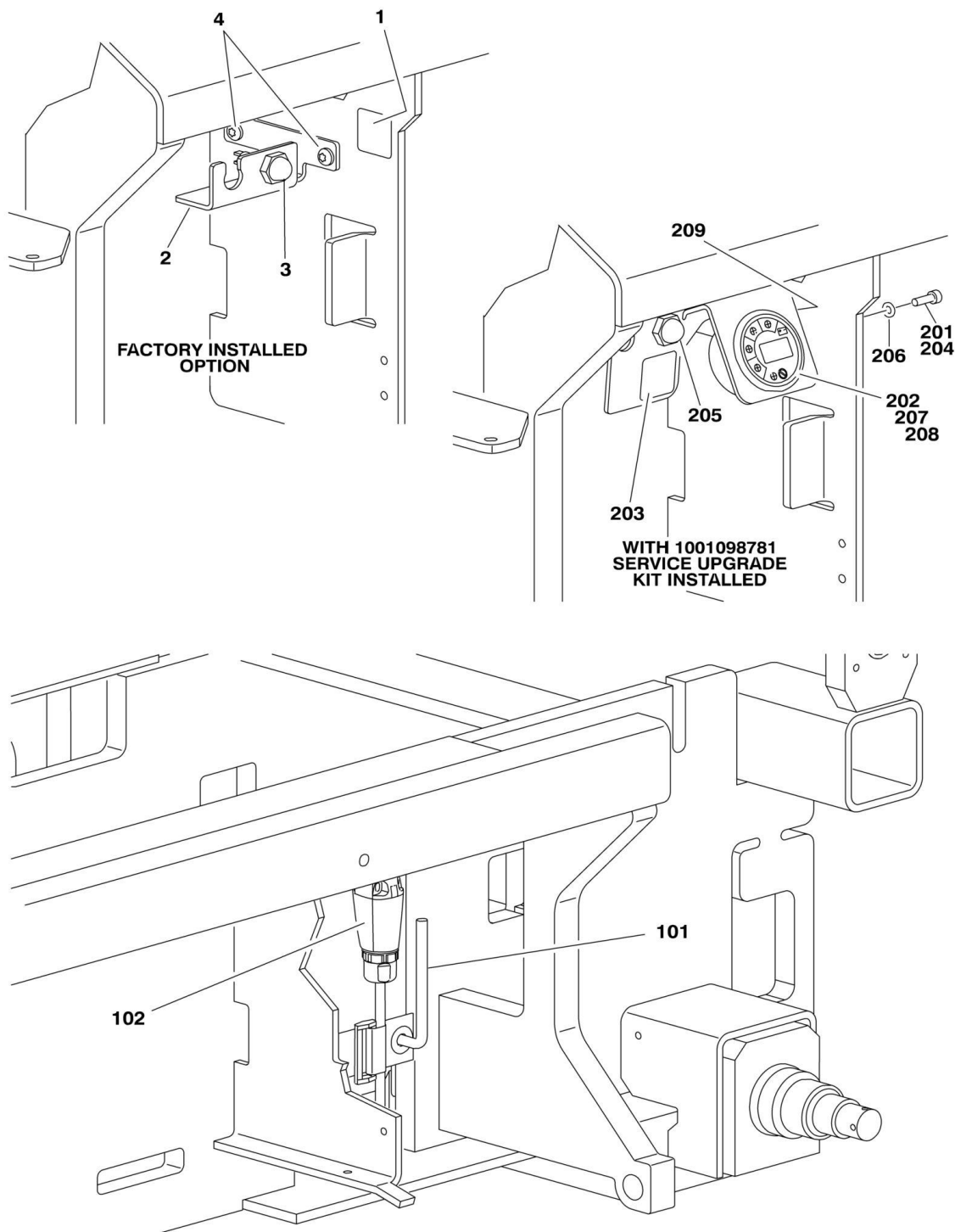
SECTION 2 - GROUND COMPONENTS

FIGURE 2-2. GROUND CONTROL ASSEMBLY AND INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	GROUND CONTROL ASSEMBLY	
	0272780	Ref	ANSI and ANSI Export and UL Specs	R
	0861669	Ref	ANSI Export and 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.	
3	2915039	1	Upgrade Kit (Includes Cables, Programming Instructions and CD Software) (Note: Use with p/n 1600419 PC Board. Must be Purchased Separately.)	B
4	1671105	1	Cover, Front	
5		Ref	Decal - LED Options:	
5	1705696	1	ANSI/ANSI Export/Australian/UL Specs	
5	1705697	1	ANSI Export/Australian/CE/Japanese Specs	
6	1705698	1	Decal - Function	
7	2420172	1	Hourmeter	
8		Ref	Component Options:	
8	3520193	1	Plug (ANSI/ANSI Export/Australian/UL Specs)	
8	2920026	1	Lamp (ANSI Export/CE/Japanese Specs)	
9		Ref	Bulb Options:	
9	Not Required	0	ANSI/ANSI Export/Australian/UL Specs	
9	2920094	1	ANSI Export/CE/Japanese Specs	
10	4340739	1	Plate, Mounting	
11	3900336	4	Screw, Torx #10-32NF x 1/2in	
12	3900356	4	Screw, Torx M3.5 x 16mm	
13	3900338	6	Screw, Torx M4 x 20mm	
14	3900339	5	Screw, Plastite #6 x 1/2in	
15	4360069	1	Breaker, Circuit - 10 Amp	
16	4360328	1	Switch, Toggle	
17		Ref	Keyswitch Options:	
17	4360469	1	ANSI/ANSI Export/Japanese/UL Spec	
17	4360470	1	Australian/CE Specs	
17	2860030	1	Key, Replacement (Fits All Specs)	
18	4360475	1	Switch, Emergency Stop	
18	7020175	1	Cap	
18	7020176	1	Block, Contact	
19	1810140	1	Module, Tilt (was p/n 4000006)	
20	4922865	1	Harness, Control Box (See ELECTRICAL SECTION for Breakdown)	
		Ref	GROUND CONTROL BOX INSTALLATION	
	0272810	Ref	ANSI and ANSI Export and UL Specs	F
	0273966	Ref	ANSI Export and Japanese Specs	C
	0273443	Ref	Australian Spec	D
	0272811	Ref	CE Spec	F
104	0700615	3	Bolt M6 x 35mm	
	0272878	Ref	Anti-vandalism Package Installation (Not Shown)	A
	1671124	1	Cover, Lockable Ground Control Box	

SECTION 2 - GROUND COMPONENTS

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



SECTION 2 - GROUND COMPONENTS

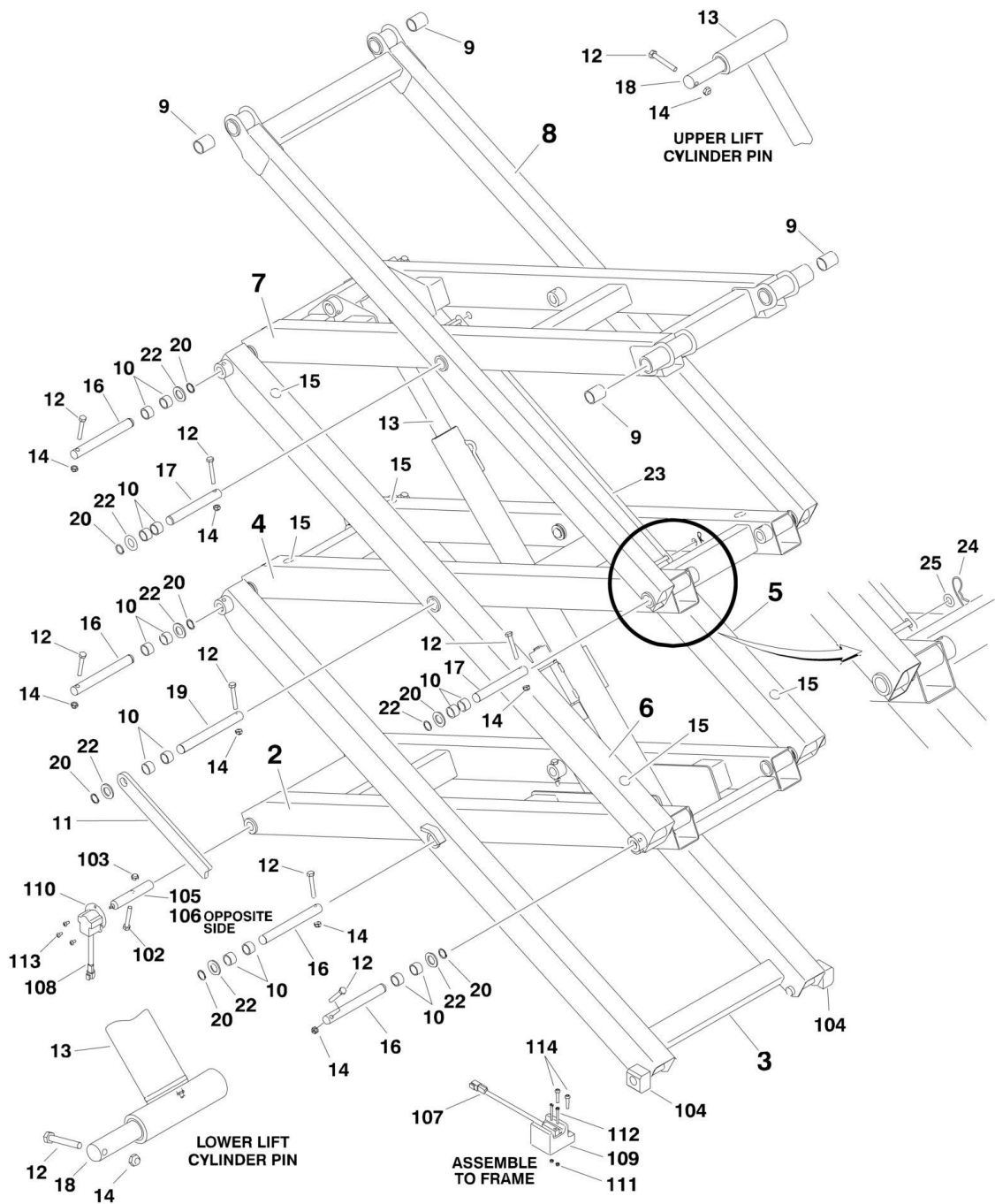
FIGURE 2-3. BRAKE DISCONNECT/RELEASE AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATIONS (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	NOTE: Items 1-4 or 101 and 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 and Screw Kit	
102	4922944	1	Bracket Disconnect/Release Switch Assembly (See ELECTRICAL SECTION for Breakdown as Design May Vary)	
	1001098781	Ref	MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE AND BRAKE RELEASE SERVICE UPGRADE KIT	A
201	0100011	AR	Compound, Locking	
202	0100048	AR	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 ELECTRICAL SECTION for Breakdown)	
209	1001094203	1	Bracket	
210	1001094359	1	Decal - Troubleshooting (Not Shown - Located on Platform Placard Plate)	

SECTION 3 - SCISSOR ARMS

SECTION 3 - SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200150265, SN 1200004293 through 1200007881)



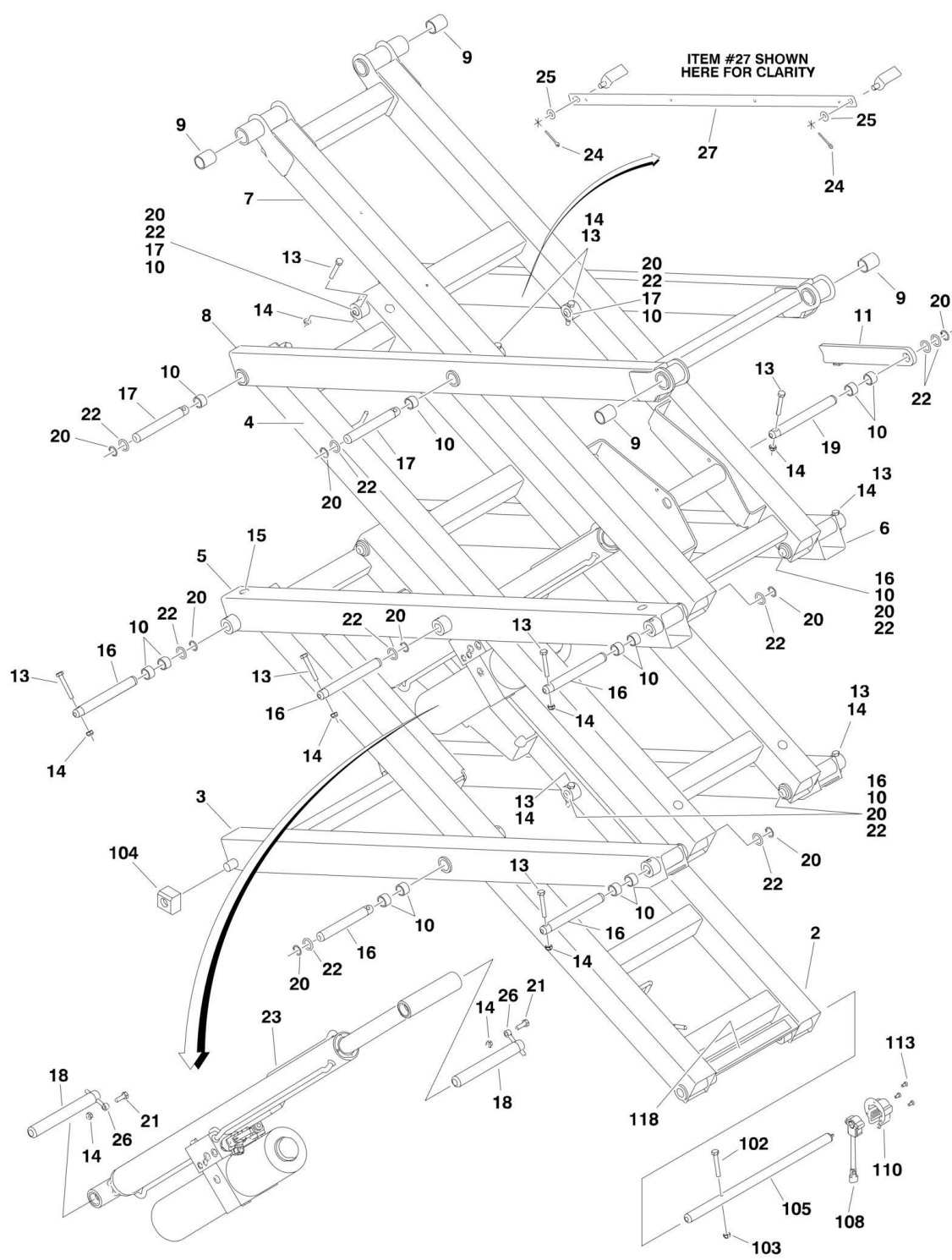
SECTION 3 - SCISSOR ARMS

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200150265, SN 1200004293 through 1200007881)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272701	Ref	SCISSOR ARMS ASSEMBLY - 1930ES	N
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 CYLINDER SECTION 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	
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
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	
115	1061036	1	Cable, Manual Descent (Not Shown)	
115	7020218	1	T-Handle (with 1/4in-20 Threads)	
115	70001878	1	T-Handle (with 5mm Threads)	
116	3321402	1	Jam Nut 1/4in-28NF (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	2	Tape, Anti-Skid (Not Shown)	

SECTION 3 - SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200150266 through 0200152825, SN 1200007882 through 1200008481)



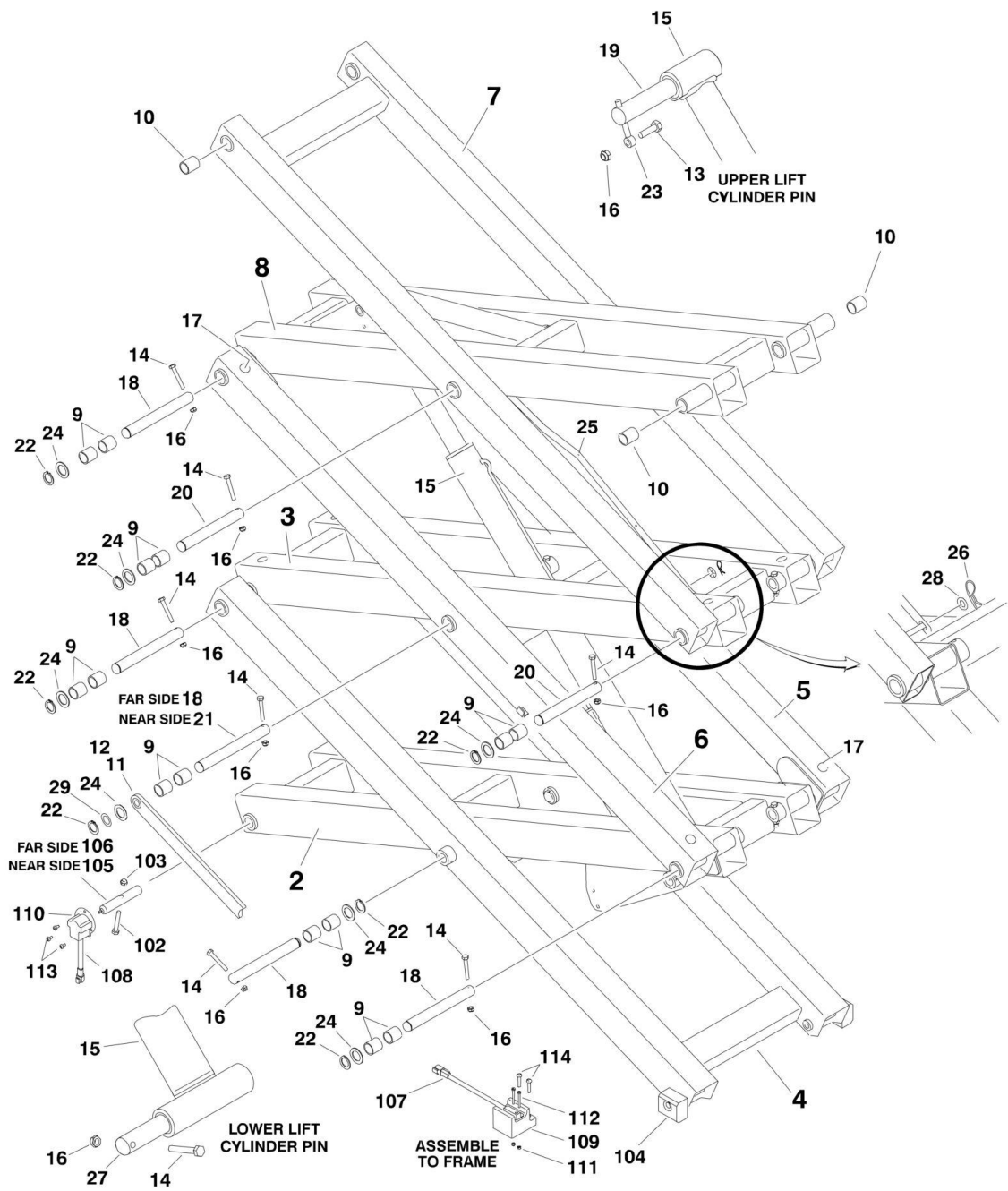
SECTION 3 - SCISSOR ARMS

FIGURE 3-2. SCISSOR ARMS INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200150266 through 0200152825, SN 1200007882 through 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
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	
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		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
23	1684484	1	Machines with Standard Hydraulic Oil	
23	1684526	1	Machines with Biodegradeable Hydraulic Oil	
24	3450303	2	Pin, Cotter 3/32in x 3/4in	
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
102	0701022	1	Bolt M10 x 70mm	
103	3291005	1	Locknut M10	
104	3340964	2	Pad, Slide	
105	3423239	1	Pin, Sensor	
108	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
110	3200454	1	Mount, Switch	
113	4191706	3	Screw M6 x 12mm	
115	1061036	1	Cable, Manual Descent (Not Shown)	
115	7020218	1	T-Handle (with 1/4in-20 Threads)	
115	70001878	1	T-Handle (with 5mm Threads)	
116	3321402	1	Jam Nut (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	1	Tape, Anti-Skid	

SECTION 3 - SCISSOR ARMS

FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2030ES



SECTION 3 - SCISSOR ARMS

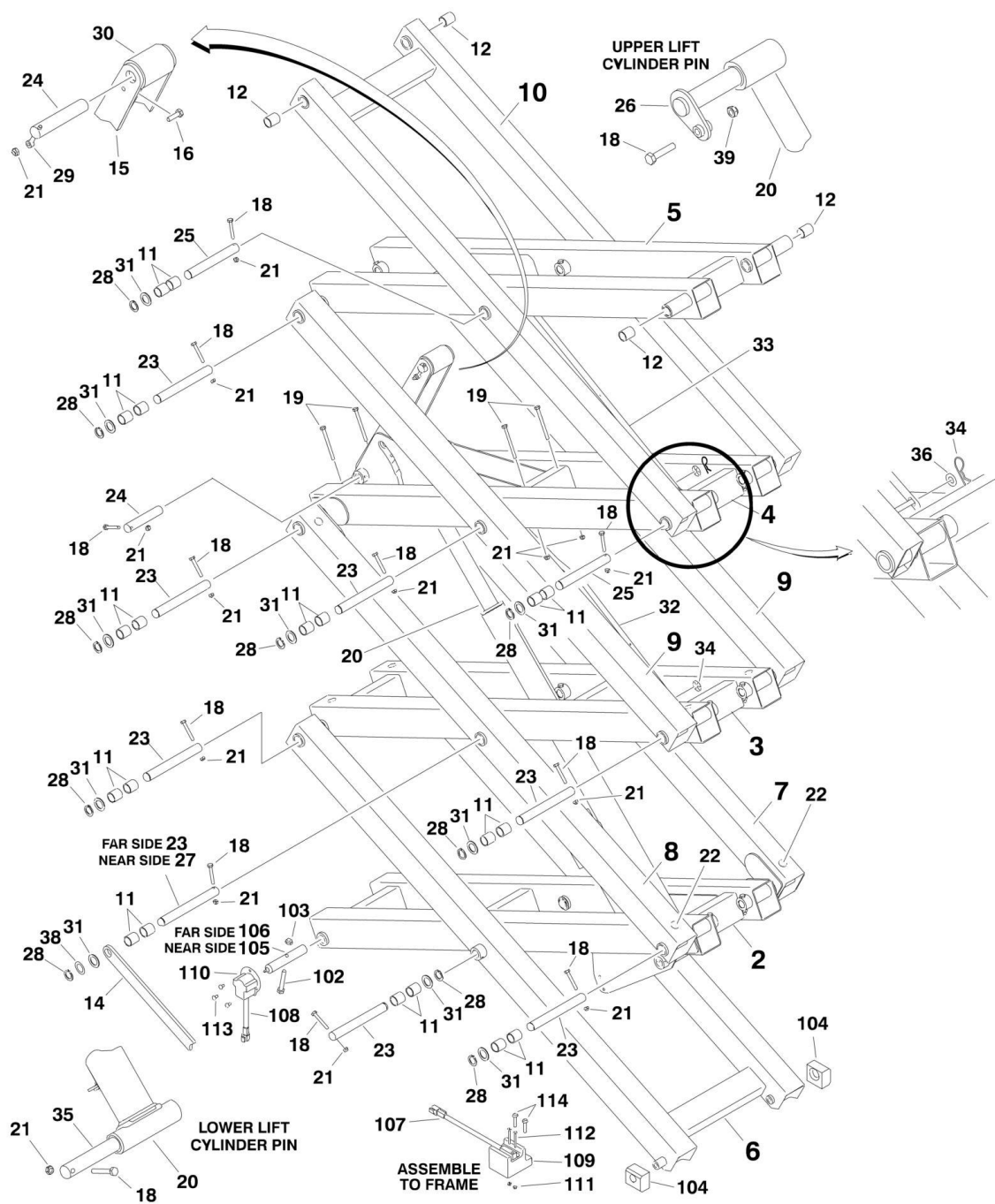
FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2030ES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272729	Ref	SCISSOR ARMS INSTALLATIONS - 2030ES	
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 CYLINDER SECTION 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	AR	Shim, Spacer	
	2902241	1	Scissor Arm Kit - 2030ES (Includes Items 2-10, 12 & 25)	
	0272730	Ref	LIMIT SWITCHES INSTALLATION	
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

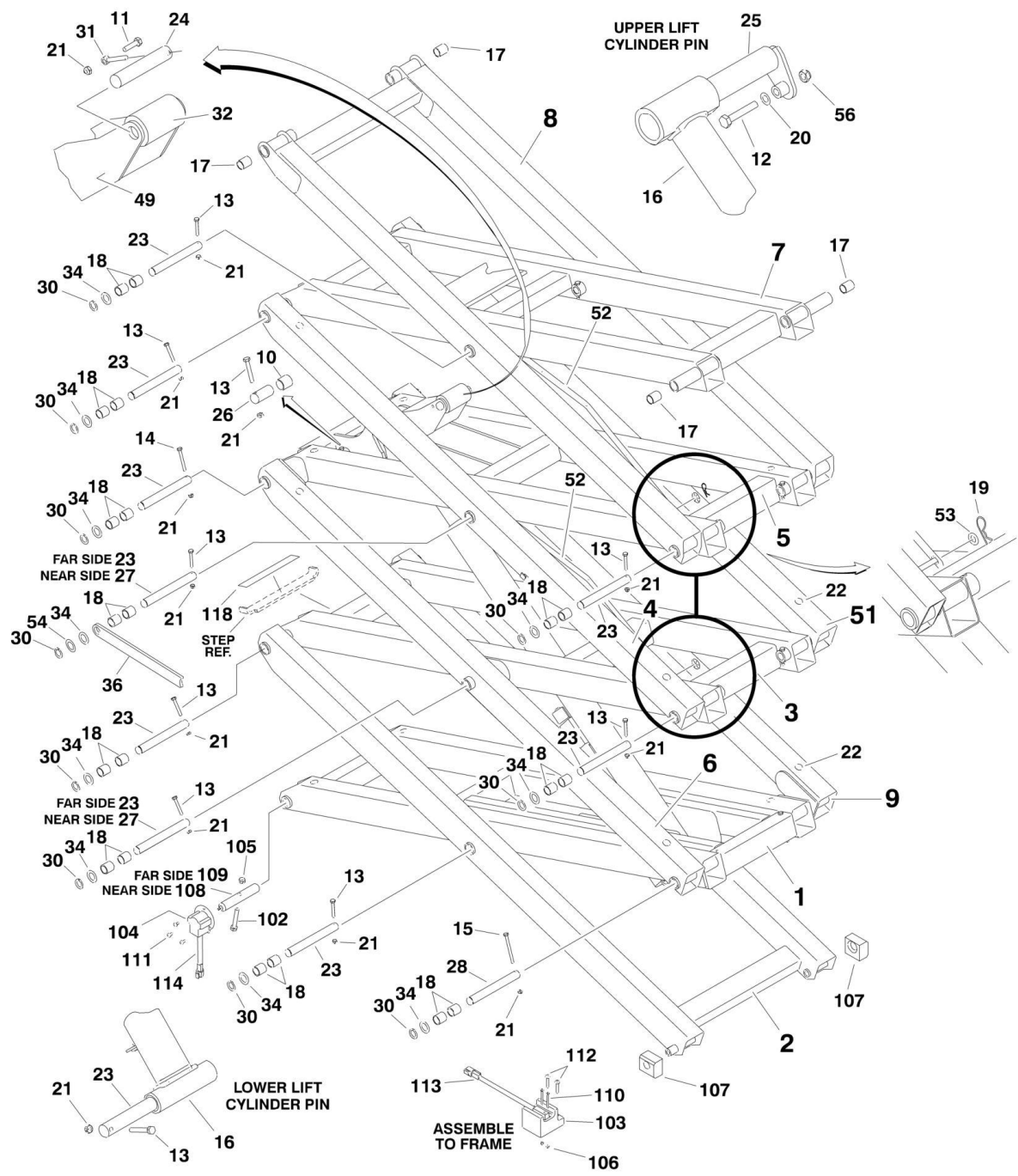
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272728	Ref	SCISSOR ARMS INSTALLATIONS - 2630ES	
2	0200798	1	Arm - Lower Inboard	
3	0200799	1	Arm - Lower Mid Inboard	
4	0200800	1	Arm - Upper Mid Inboard	
5	0200801	1	Arm - Upper Inboard	
6	0200802	1	Arm - Lower Outboard	
7	0200803	1	Arm - Lower Mid Outboard (Left Side)	
8	0200804	1	Arm - Lower Mid Outboard (Right Side)	
9	0200805	2	Arm - Upper Mid Outboard	
10	0200807	1	Arm - Upper Outboard	
11	0440267	42	Bearing	
12	0440266	4	Bearing	
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 CYLINDER SECTION 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
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	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
112	3900334	2	Screw M4	
113	4191706	3	Screw M6 x 12mm	
114	4191709	2	Screw M6 x 25mm	

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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES BUILT) (SN 0200135154 through 0200151605, SN 1200004293 through 1200008264)



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FIGURE 3-5. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES BUILT) (SN 0200135154 through 0200151605, SN 1200004293 through 1200008264)

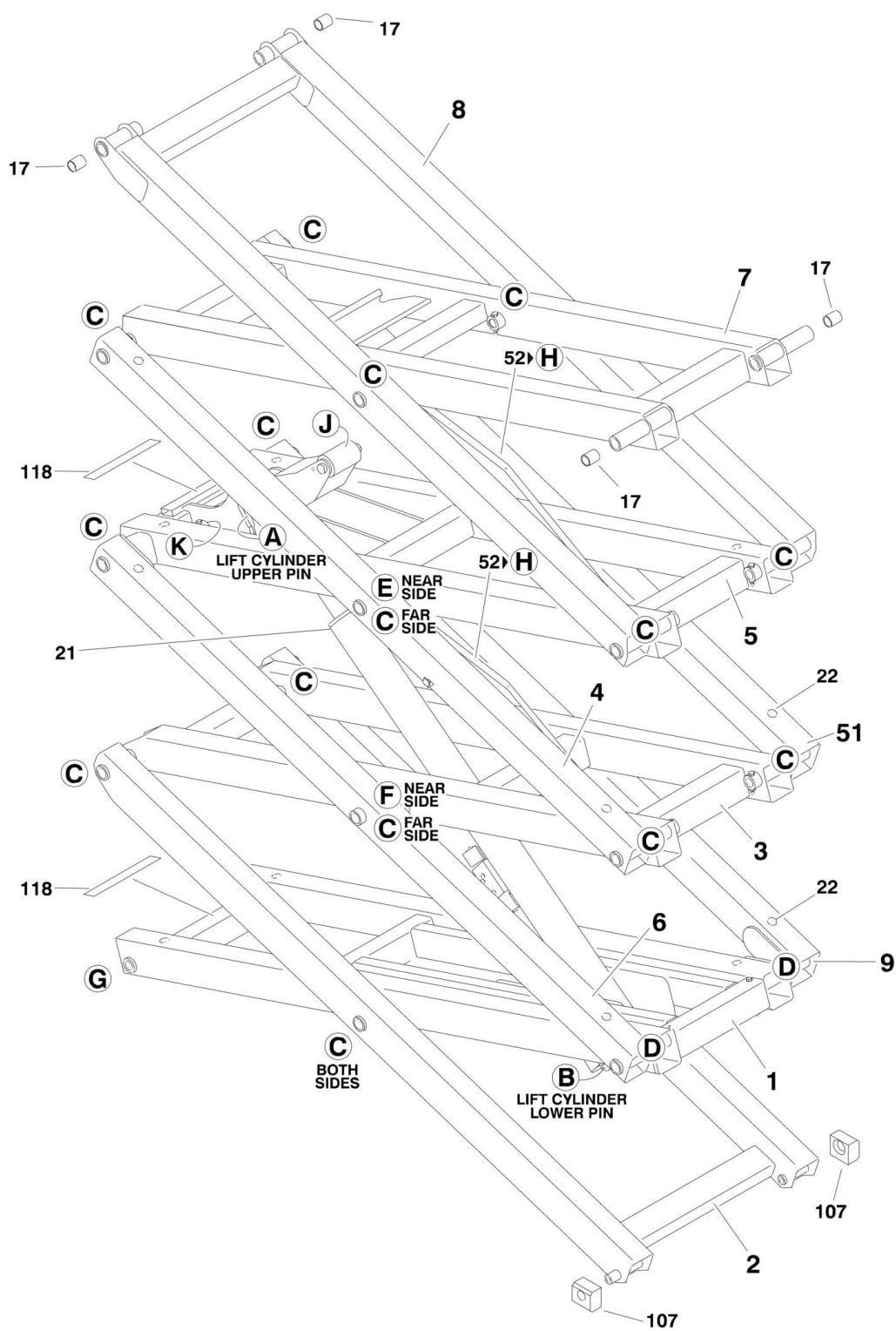
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SCISSOR ARMS ASSEMBLIES - 2646ES/3246ES	
	0272929	Ref	Scissor Arms Assemblies (2646ES)	N
	0272928	Ref	Scissor Arms Assemblies (3246ES)	N
1	0200782	1	Arm - Lower Inboard	
2	0200783	1	Arm - Lower Outboard	
3	0200784	1	Arm - Lower Mid Inboard	
4	0200785	1	Arm - 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		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
16	1684260	1	Lift Cylinder Assembly (2646ES)	
16	1684257	1	Lift Cylinder Assembly (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	
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller	
34	4740438	20	Washer, Special	
36	3574161	1	Prop, Safety	
49	4846684	1	Kicker, Arm	
51	0200817	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	2	Flatwasher M10	
54	4071094	AR	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	1	Locknut M10	
	2902236	1	Scissor Arm Kit - 2646ES/3246ES (Includes Items 1-10, 17, 18,	L

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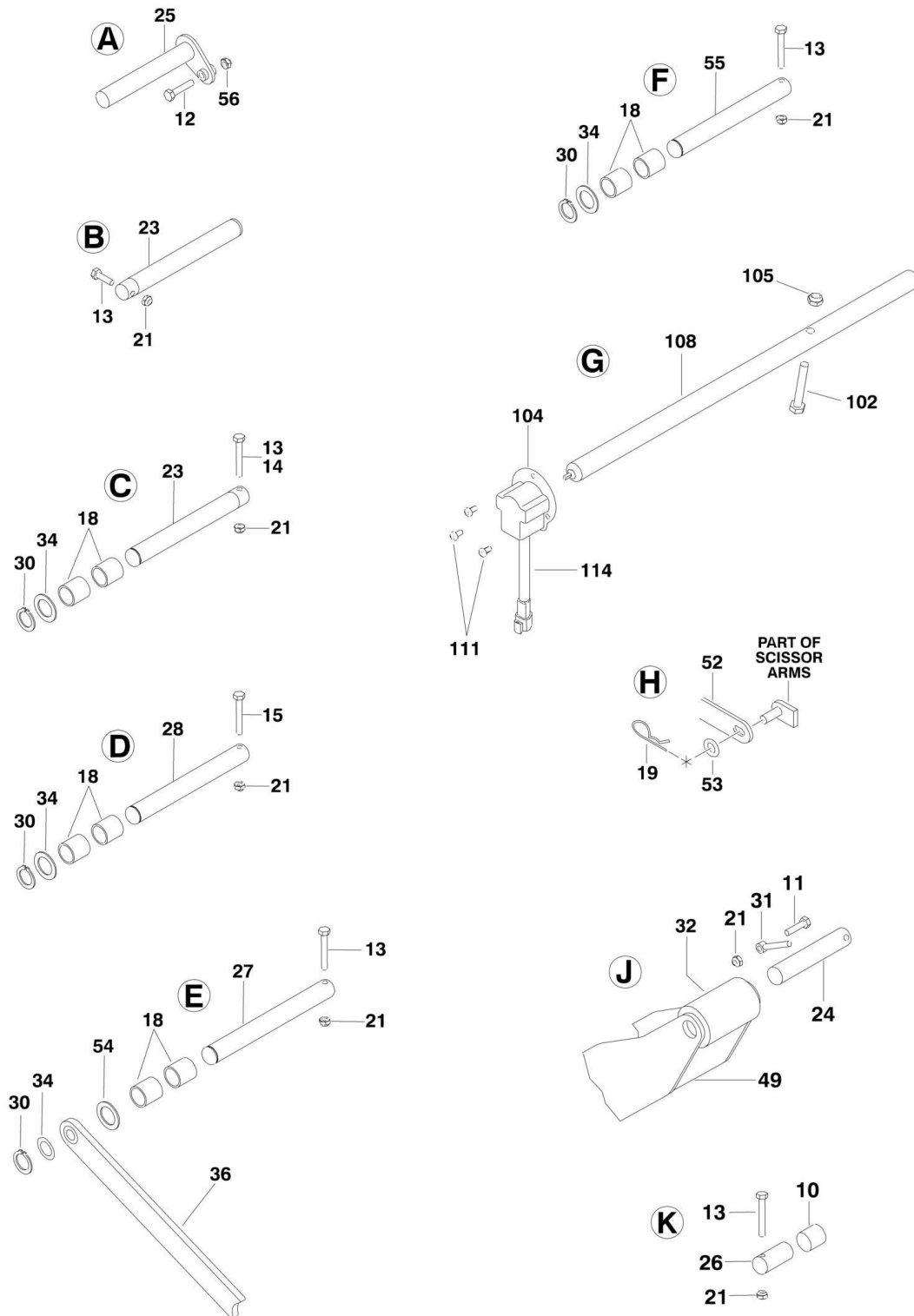
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			36, 49, 51 & 52)	
		Ref	SCISSOR ARMS INSTALLATIONS - 2646ES/3246ES	
	0272623	Ref	Scissor Arms Installations (2646ES)	D
	0272622	Ref	Scissor Arms Installations (3246ES)	D
102	0701022	2	Bolt M10 x 70mm	
103	3200453	1	Mount, Switch	
104	3200454	1	Mount, Switch	
105	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)	
118	4420070	2	Tape, Anti-Skid	

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FIGURE 3-6. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES BUILT) (SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)



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FIGURE 3-6. SCISSOR ARMS INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES BUILT) (SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SCISSOR ARMS ASSEMBLIES - 2646ES/3246ES	
	0274878	Ref	Scissor Arms Assemblies (2646ES with Standard Hydraulic Oil)	B
	0200841	Ref	Scissor Arms Assemblies (2646ES with Biodegradeable Hydraulic Oil)	A
	0274880	Ref	Scissor Arms Assemblies (3246ES with Standard Hydraulic Oil)	B
	0200842	Ref	Scissor Arms Assemblies (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		Ref	Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
16	1684489	1	Lift Cylinder Assembly (2646ES with Standard Hydraulic Oil)	
16	1684529	1	Lift Cylinder Assembly (2646ES with Biodegradeable Hydraulic Oil)	
16	1684490	1	Lift Cylinder Assembly (3246ES with Standard Hydraulic Oil)	
16	1684530	1	Lift Cylinder Assembly (3246ES with Biodegradeable Hydraulic Oil)	
17	0440266	4	Bearing	
18	0440267	40	Bearing	
19	3420156	4	Pin, Cotter	
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	
30	3760387	20	Ring, Retaining	
31	3841143	1	Keeper, Pin	
32	3860104	1	Roller	
34	4740438	20	Washer, Special	
36	3574161	1	Prop, Safety	
49	4846684	1	Kicker, Arm	

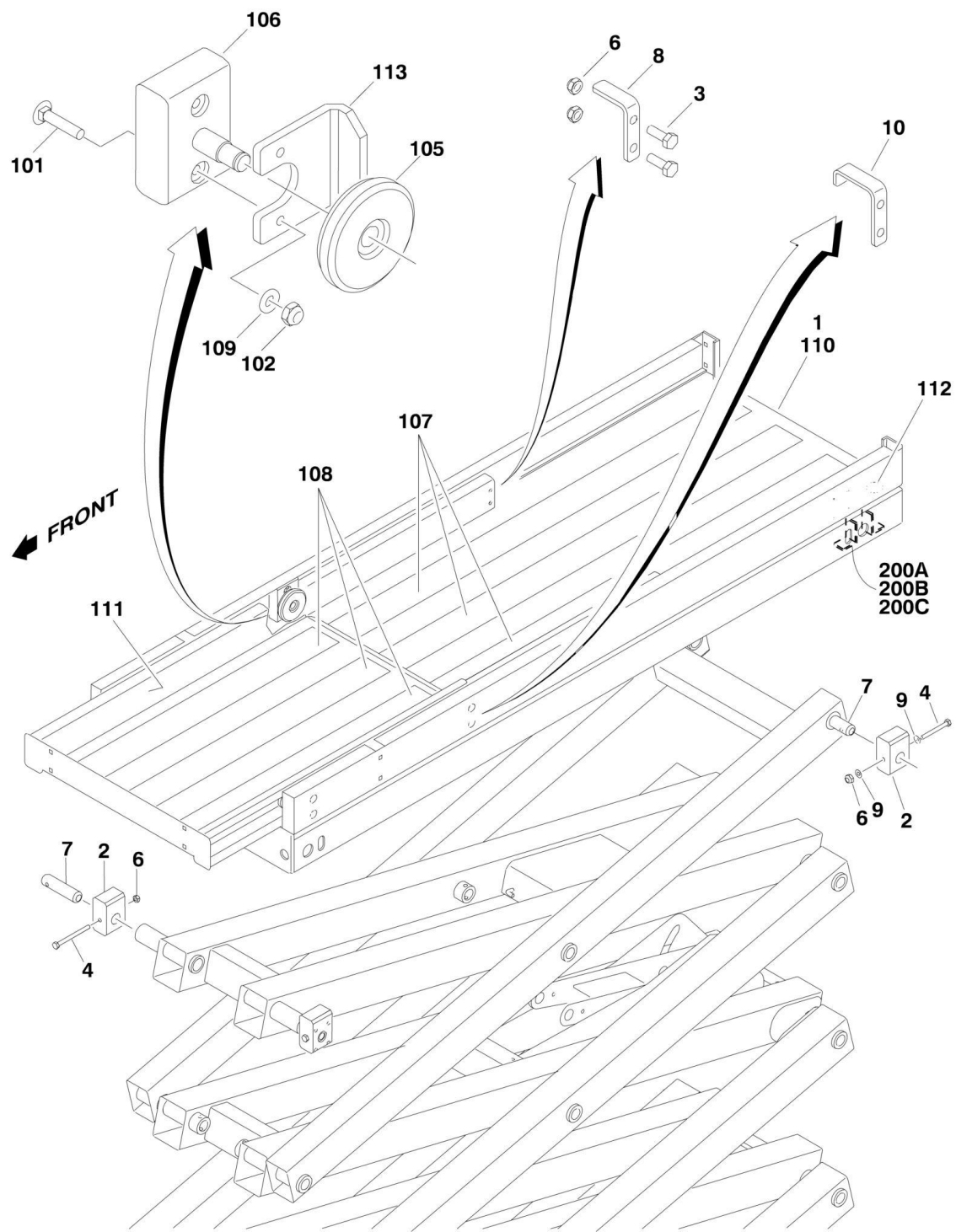
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	0200820	1	Arm - Upper Mid Outboard (Left Side)	
52	1180380	2	Carrier, Cable	
53	4812000	4	Flatwasher M10	
54	4071094	AR	Shim, Spacer	
55	3423170	1	Pin	
56	3291007	1	Locknut M10	
	2902475	1	Scissor Arm Kit - 2646ES/3246ES (Includes Items 1-10, 17, 18, 36, 49, 51 & 52)	C
		Ref	SCISSOR ARMS INSTALLATIONS - 2646ES/3246ES	
	0274879	Ref	Scissor Arms Installations (2646ES with Standard Hydraulic Oil)	B
	0275695	Ref	Scissor Arms Installations (2646ES with Biodegradeable Hydraulic Oil)	A
	0274881	Ref	Scissor Arms Installations (3246ES with Standard Hydraulic Oil)	B
	0275696	Ref	Scissor Arms Installations (3246ES with Biodegradeable Hydraulic Oil)	A
102	0701022	2	Bolt M10 x 70mm	
104	3200454	1	Mount, Switch	
105	3291005	2	Locknut M10	
107	3340957	2	Pad, Slide	
108	3423255	1	Pin, Sensor	
111	4191706	3	Screw M6 x 12mm	
114	1001092354	1	Switch, Rotary Angle Sensor (was p/n 4360526)	
115	1061034	1	Cable, Manual Descent (Not Shown)	
115	7020218	1	T-Handle (with 1/4in-20 Threads)	
115	70001878	1	T-Handle (with 5mm Threads)	
116	3321402	1	Nut, Jam 1/4in-28NF (Not Shown)	
117	4160078	1	Spring, Compression (Not Shown)	
118	4420070	2	Tape, Anti-Skid	

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FIGURE 4-1. PLATFORM INSTALLATION



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FIGURE 4-1. PLATFORM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM INSTALLATIONS	
		Ref	All Specs Except CE and Japanese Specs	
	0272633	Ref	Platform Installations, 1930ES USA Built Machines (SN 0200135154 through 0200150265)	F
	0272633	Ref	Platform Installations, 1930ES Belgium Built Machines (Original Equipment) (SN 1200004293 through 1200007881)	
	0274817	Ref	Platform Installations, 1930ES USA Built Machines (SN 0200150266 through 0200152825)	E
	0274817	Ref	Platform Installations, 1930ES Belgium Built Machines (Original Equipment) (SN 1200007882 through 1200008481)	E
	1001134933	Ref	Platform Installations, 1930ES (Service Replacement)	A
	0272666	Ref	Platform Installations, 2030ES/2630ES	F
	0272698	Ref	Platform Installations, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200151609)	G
	0272698	Ref	Platform Installations, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200008264)	G
	0274930	Ref	Platform Installations, 2646ES/3246ES USA Built Machines (SN 0200151610 through 0200152825)	B
	0274930	Ref	Platform Installations, 2646ES/3246ES Belgium Built Machines (SN 1200008265 through 1200008481)	B
		Ref	CE and Japanese Specs Only	
	0272836	Ref	Platform Installations, 1930ES USA Built Machines (SN 0200135154 through 0200150265)	M
	0272836	Ref	Platform Installations, 1930ES Belgium Built Machines (SN 1200004293 through 1200007881)	M
	0275029	Ref	Platform Installations, 1930ES USA Built Machines (SN 0200150266 through 0200152825)	F
	0275029	Ref	Platform Installations, 1930ES Belgium Built Machines (SN 1200007882 through 1200008481)	F
	0272837	Ref	Platform Installations, 2030ES/2630ES	N
	0272838	Ref	Platform Installations, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200151609)	N
	0272838	Ref	Platform Installations, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200008264)	N
	0274931	Ref	Platform Installations, 2646ES/3246ES USA Built Machines (SN 0200151610 through 0200152825)	B
	0274931	Ref	Platform Installations, 2646ES/3246ES Belgium Built Machines (SN 1200008265 through 1200008481)	B
		Ref	Note: All versions are available on ANSI Export Spec.	
1		Ref	Platform Assembly (See Items 101-113 for Breakdown):	
1	1001134934	1	Platform Assembly, 1930ES (Service Replacement) (Original Equipment was p/n 0272637 for USA Built Machines or 0274818 for USA Built Machines) (SN 0200135154 through 0200150265, SN 0200150266 through 0200152825, Including)	
1	1001134934	1	Platform Assembly, 1930ES (Service Replacement) (Original Equipment was p/n 0272637 for Belgium Built Machines or 0274818 for Belgium Built Machines) (SN 1200004293 through 1200007881, SN 1200007882 through 1200008481)	
1	0272661	1	Platform Assembly, 2030ES/2630ES	
1		Ref	Platform Assembly, 2646ES/3246ES	
1	0272696	1	USA Built Machines (SN 0200135154 through 0200151609)	
1	0272696	1	Belgium Built Machines (SN 1200004293 through 1200008264)	
1	0274929	1	USA Built Machines (SN 0200151610 through 0200152825)	

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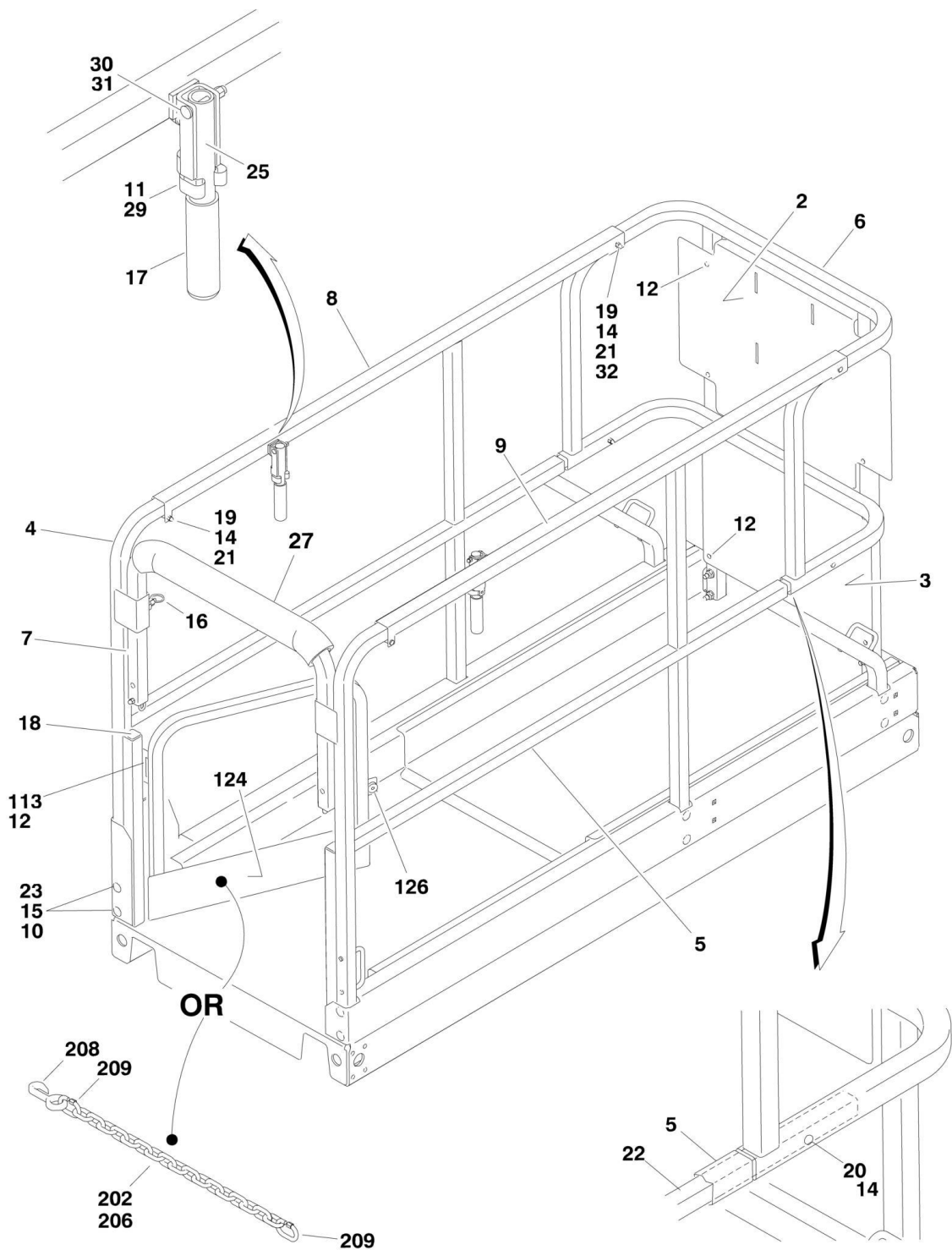
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	0274929	1	Belgium Built Machines (SN 1200008265 through 1200008481)	
2		Ref	Block, Slide Options:	
2	3340976	2	Slide Block, 1930ES (Front Block)	
2	3340965	2	Slide Block, 1930ES (Rear Block)	
2	1001134951	2	Slide Block, 1930ES (Spacer Sleeve Used with Rear Block) (Service Replacement Platforms Only)	
2	0561520	4	Slide Block, 2030ES/2630ES/2646ES/3246ES	
3	3900351	4	Bolt M10 x 30mm	
4		Ref	Bolt M10 Options:	
4	0701022	2	70mm Length (Front Slide Block - 1930ES)	
4	0701027	2	100mm Length (Rear Slide Block - 1930ES) (was p/n 0701026 - 90mm Length)	
4	0701029	2	120mm Length (Rear Slide Block - 1930ES) (Service Replacement Platform Only)	
4	0701024	2	80mm Length (Front Slide Block - 2030ES/2630ES/2646ES/3246ES)	
4	0701027	2	100mm Length (Rear Slide Block - 2030ES/2630ES/2646ES/3246ES)	
6	3291005	8	Locknut M10	
7		Ref	Pin Options:	
7	3423049	4	All Machines except CE and Japanese Specs	
7	See Note	4	CE and Japanese Spec Machines (Note: Refer to JLG Supplement p/n 3124288)	
8	3574067	2	Plate, Extension Stop	
9	4812000	4	Flatwasher M10	
10		Ref	Bracket, Platform Containment Options:	
10	0903579	2	Bracket (Standard on 2646ES/3246ES - USA Built Machines) (SN 0200135154 through 0200151609)	
10	0903579	1	Bracket (Standard on 2646ES/3246ES - Belgium Built Machines) (SN 1200004293 through 1200008264)	
10	9984279	1	Service Kit to Install Bracket (Includes qty 2 p/n 0903579 Brackets and Instructions) (Suggested installation on ALL ES models if not currently equipped)	
		Ref	PLATFORM ASSEMBLY	
	1001134934	Ref	Platform Assembly, 1930ES USA Built Machines) (SN 0200135154 through 0200150265)	F
	1001134934	Ref	Platform Assembly, 1930ES Belgium Built Machines (Original Equipment was p/n 0272637) (SN 1200004293 through 1200007881)	F
	1001134934	Ref	Platform Assembly, 1930ES USA Built Machines (Original Equipment was p/n 0274818) (SN 0200150266 through 0200152825)	B
	1001134934	Ref	Platform Assembly, 1930ES Belgium Built Machines (Original Equipment was p/n 0274818) (SN 1200007882 through 1200008481)	B
	1001134934	Ref	Platform Assembly, 1930ES (Service Replacement)	A
	0272661	Ref	Platform Assembly, 2030ES/2630ES	F
	0272696	Ref	Platform Assembly, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200151609)	G
	0272696	Ref	Platform Assembly, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200008264)	G
	0274929	Ref	Platform Assembly, 2646ES/3246ES USA Built Machines (SN 0200151610 through 0200152825)	A
	0274929	Ref	Platform Assembly, 2646ES/3246ES Belgium Built Machines (SN 1200008265 through 1200008481)	A

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	0630565	8	Bolt, Carriage M10 x 50mm	
102	3291005	8	Locknut M10	
105	3860118	4	Roller	
106	4340914	4	Mount	
107		Ref	Tape, Anti-Skid Options:	
107	4420071	3	Tape, Anti-Skid, 1930ES	
107	4420075	3	Tape, Anti-Skid, 2030ES/2630ES	
107	4420073	5	Tape, Anti-Skid, 2646ES/3246ES	
108		Ref	Tape, Anti-Skid Options:	
108	4420072	3	Tape, Anti-Skid, 1930ES/2030ES/2630ES	
108	4420074	5	Tape, Anti-Skid, 2646ES/3246ES	
109	4812000	8	Flatwasher M10	
110		Ref	Platform Weldment Options:	
110	1001134935	1	Platform Weldment, 1930ES (Service Replacement)	
110		Ref	USA Built Machines (Original Equipment was p/n 4846766) (SN 0200135154 through 0200150265)	
110		Ref	Belgium Built Machines (Original Equipment was p/n 4846766) (SN 1200004293 through 1200007881)	
110		Ref	USA Built Machines (Original Equipment was p/n 3510888) (SN 0200150266 through 0200152825)	
110		Ref	Belgium Built Machines (Original Equipment was p/n 3510888) (SN 1200007882 through 1200008481)	
110	4846789	1	Platform Weldment, 2030ES/2630ES	
110		Ref	Platform Weldment, 2646ES/3246ES	
110	4846761	1	USA Built Machines (SN 0200135154 through 0200151609)	
110	4846761	1	Belgium Built Machines (SN 1200004293 through 1200008264)	
110	3510890	1	USA Built Machines (SN 0200151610 through 0200152825)	
110	3510890	1	Belgium Built Machines (SN 1200008265 through 1200008481)	
111		Ref	Extension Weldment Options:	
111	4846768	1	Extension Weldment, 1930ES/2030ES/2630ES	
111	4846764	1	Extension Weldment, 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		Ref	Fixed Mount Repair Kit (Kit includes components and instructions to repair weld cracks in fixed mounting block supports on aluminum platforms)	
200A	2915241	1	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 AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200150265, SN 1200004293 through 1200007881)



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FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200150265, SN 1200004293 through 1200007881)

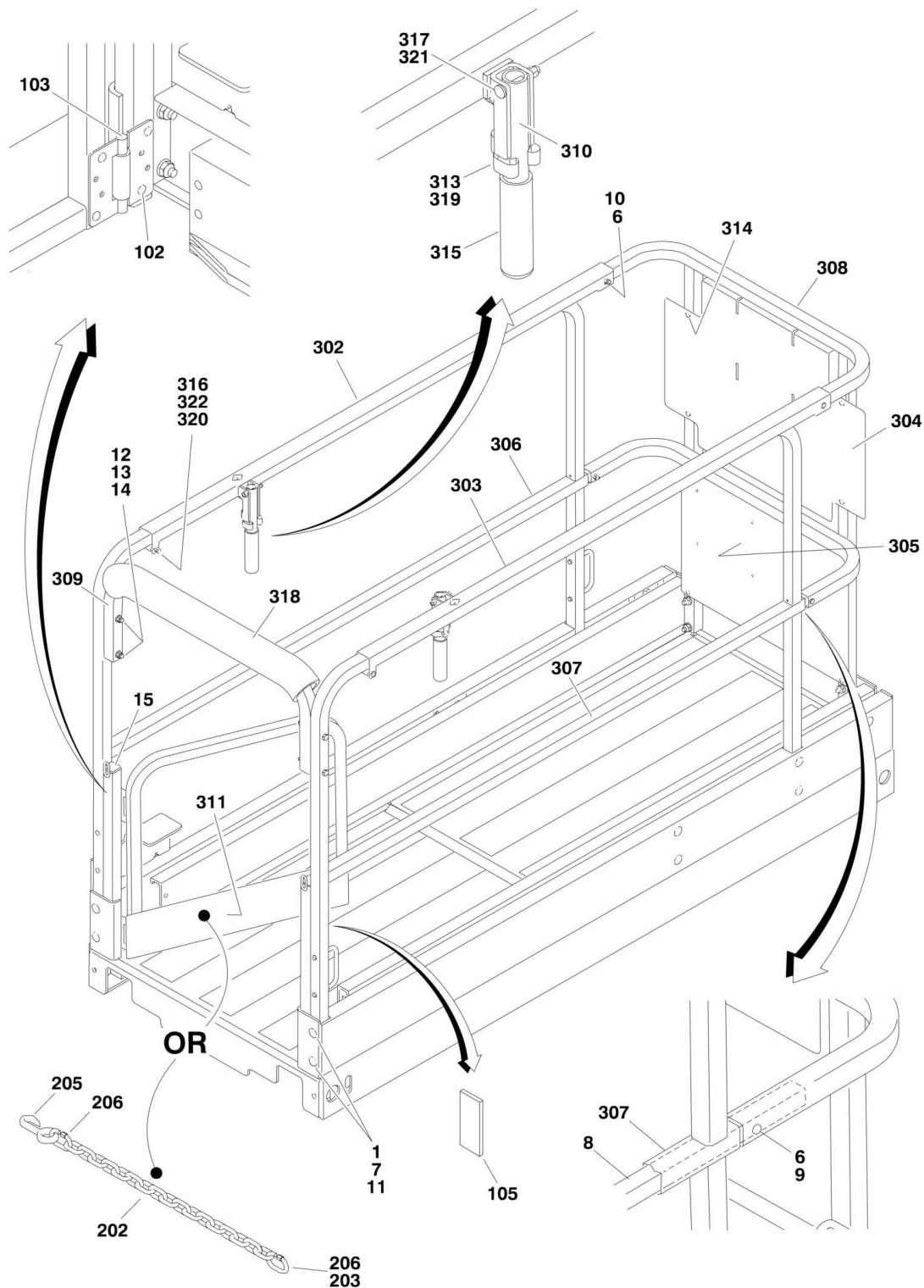
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	RAIL INSTALLATION - 1930ES	
	0272611	Ref	Rails with Gate Closure	J
	0272910	Ref	Rails with Chain Closure	G
2	3574183	1	Plate, Billboard (Upper)	
3	3574184	1	Plate, Billboard (Lower)	
4	3641480	1	Rail, Side (Left)	
5	3641481	1	Rail, Side (Right)	
6	3641482	1	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	AR	Fastener, Huck	
14	3290606	AR	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	AR	Screw M6 x 40mm	
21	4010617	4	Screw M6 x 45mm	
22	3841649	2	Extension, Midrail	
23	4812000	16	Flatwasher M10	
25		Ref	Handle, Extension Options:	
25	4846786	2	USA Built Machines (SN 0200135154 through 0200145593)	
25	4846786	1	Belgium Built Machines (SN 1200008481 through 1200005293)	
25	2560191	2	USA Built Machines (SN 0200145594 through 0200150266)	
25	2560191	1	Belgium Built Machines (SN 1200005294 through 1200007882)	
27	3340612	18 in/46cm	Pad, Rail	
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) (SN 0200145594 through 0200150266)	
32	4010618	1	Screw M6 x 50mm (Belgium Built Machines) (SN 1200005294 through 1200007882)	
		Ref	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
	0272611	Ref	GATE CLOSURE COMPONENTS	J
113	2600281	2	Hinge	
124	4846723	1	Gate	
126	3080007	1	Magnet, Gate	
	0272910	Ref	CHAIN CLOSURE COMPONENTS	G

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
202	1260136	2 ft/61cm	Chain	
206	2820097	2 ft/61cm	Cover, Chain	
208	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 209)	
209	3010088	2	Link	

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FIGURE 4-3. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200150266 through 0200152825, SN 1200007882 through 1200008481)



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FIGURE 4-3. RAIL (FIXED) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200150266 through 0200152825, SN 1200007882 through 1200008481)

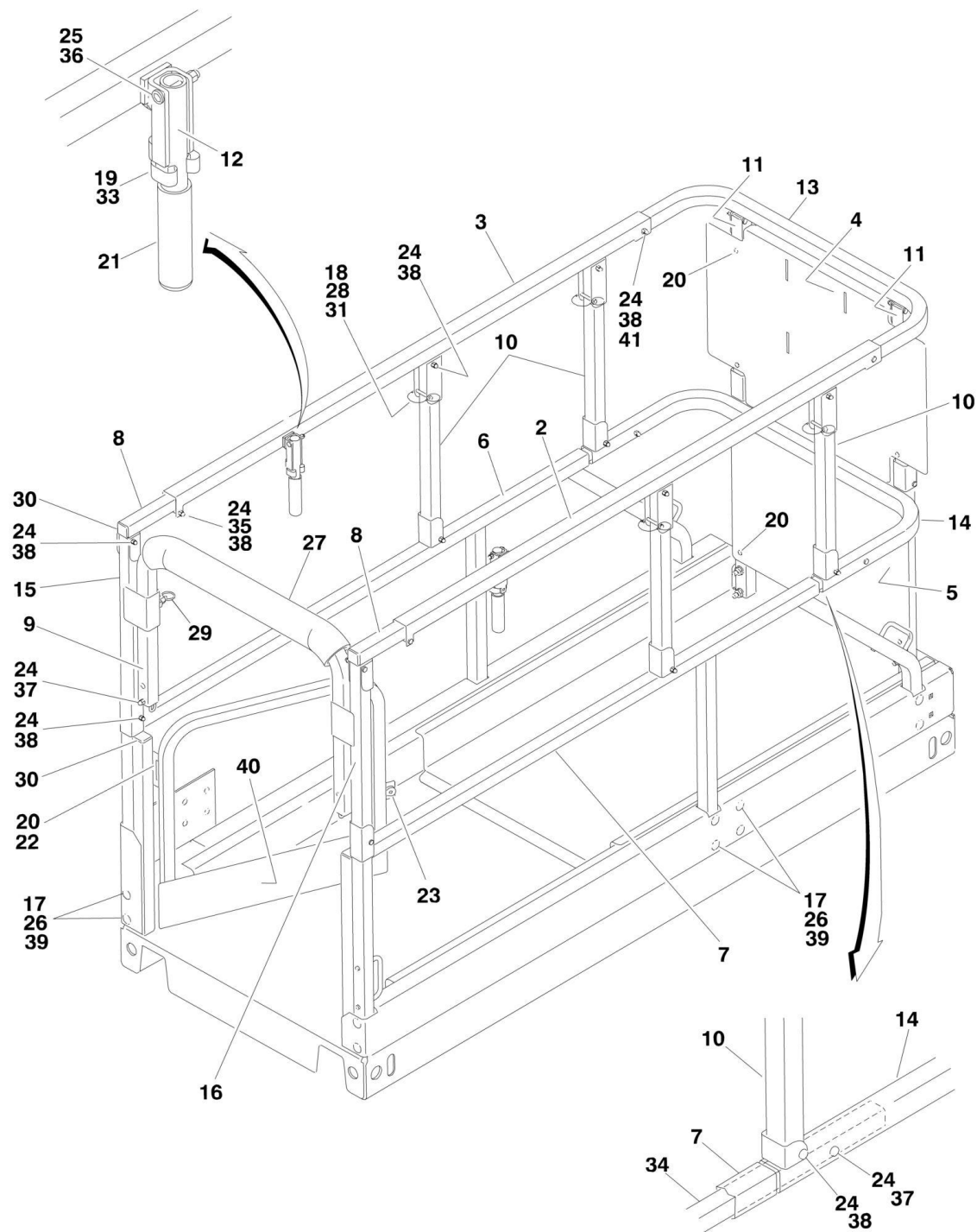
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	RAIL INSTALLATION - 1930ES	
	0274985	Ref	Rails with Gate Closure	C
	0274816	Ref	Rails with Chain Closure	D
1	0630565	12	Bolt, Carriage M10 x 55mm	
4		Ref	Rail Assembly Options (Not Shown - See Items 301-322 for Breakdown):	
4	2902448	1	Rails with Gate Closure	
4	2902496	1	Rails with Chain Closure	
6	3290606	4	Capnut M6	
7	3291005	12	Locknut M10	
8	3841716	2	Rod, Fiber Glass	
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
102	2080040	8	Fastener, Huck	
103	2600281	2	Hinge	
105	3080007	1	Magnet, Gate	
	0274816	Ref	CHAIN CLOSURE COMPONENTS	D
202	1260136	1.75 ft/53cm	Chain (was 2ft/61cm)	
203	2820097	1.67 ft/51cm	Cover, Chain (was 2ft/61cm)	
205	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)	
307	3641605	1	Rail, Side (Right)	
308	3641606	1	Rail, Extension Platform (Front)	
309	4569305	1	Rail (Rear)	
310	2560191	2	Handle, Extension	
311	4846723	1	Gate (2902496 Rail Assembly Only)	
313	1380132	2	Clip, Gripper	
314	2080040	8	Fastener, Huck	
315	2560088	2	Cover, Handle	
316	3290606	2	Capnut M6	
317	3290806	2	Capnut M8	
318	3340612	18 in/46cm	Pad, Rail	
319	3820019	2	Rivet	

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

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FIGURE 4-4. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200150265, SN 1200004293 through 1200007881)



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FIGURE 4-4. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200150265, SN 1200004293 through 1200007881)

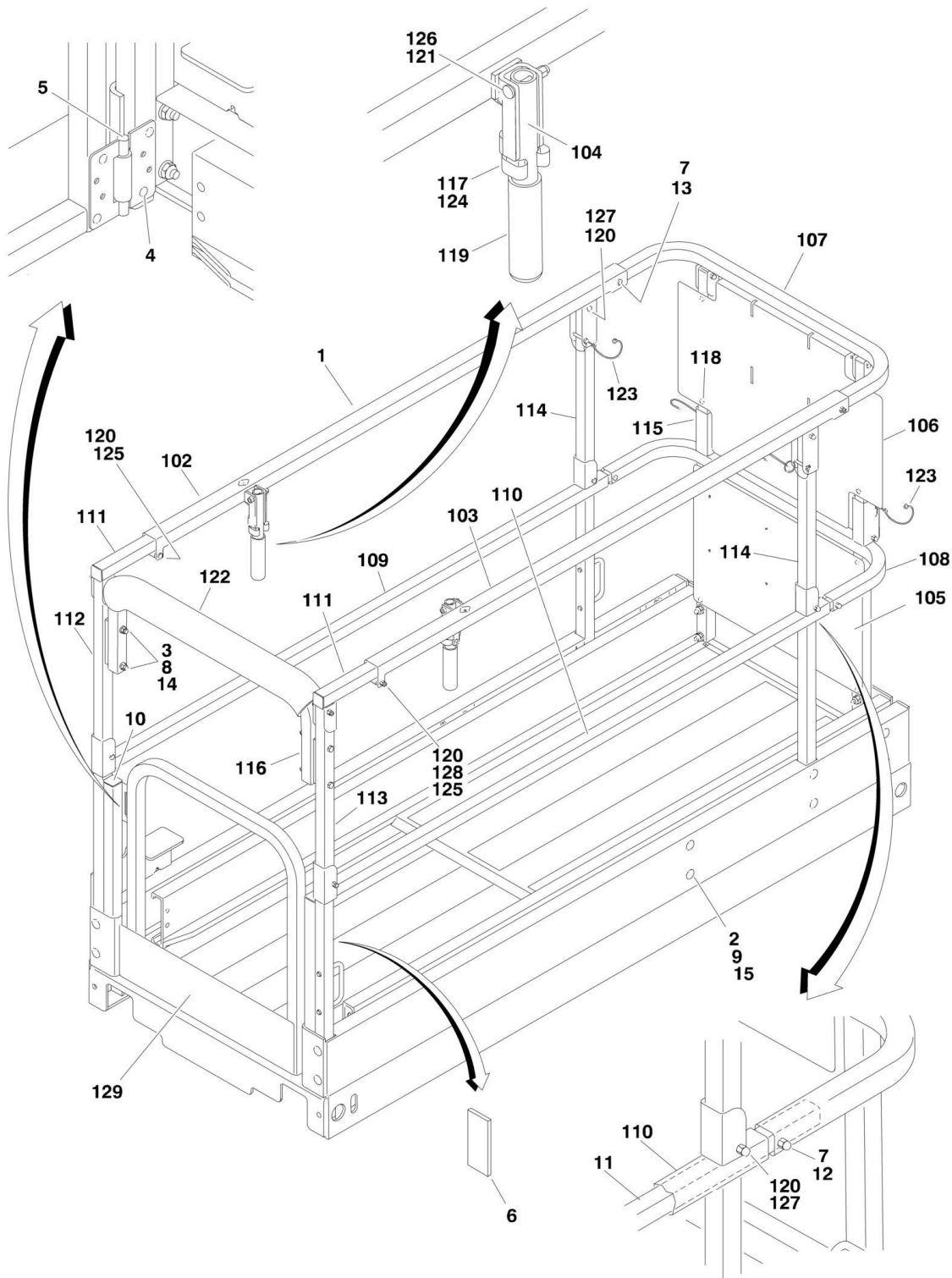
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	RAIL INSTALLATION - 1930ES	
	0273479	Ref	Rails with Gate Closure	F
2	1271571	1	Rail, Slide (Right)	
3	1271572	1	Rail, Slide (Left)	
4	3574183	1	Plate, Bill Board (Upper)	
5	3574184	1	Plate, Bill Board (Lower)	
6	3641534	1	Rail (Left Lower Side)	
7	3641535	1	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		Ref	Handle, Extension Options:	
12	4846786	2	USA Built Machines (SN 0200135154 through 0200145593)	
12	4846786	1	Belgium Built Machines (SN 1200004293 through 1200005293)	
12	2560191	2	USA Built Machines (SN 0200145594 through 0200150266)	
12	2560191	1	Belgium Built Machines (SN 1200005294 through 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	AR	Capnut M6	
25	3290806	2	Capnut M8	
26	3291005	16	Capnut M10	
27	3340612	18	Pad, Rail	
		in/46cm		
28	3423278	4	Pin and 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	
33	3820019	2	Rivet	
34	3841649	2	Tube, Slide (Mid)	
35	3860111	2	Roller	
36	3900345	2	Capscrew M8 x 45mm	
37	4010616	AR	Screw M6 x 40mm	
38	4010617	20	Screw M6 x 45mm	
39	4812000	16	Flatwasher M10	
40	4846723	1	Gate	
41	4010618	2	Screw M6 x 50mm (USA Built Machines) (SN 0200145594 through 0200150266)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	4010618	1	Screw M6 x 50mm (Belgium Built Machines) (SN 1200005294 through 1200007882)	F
	2902384	1	Rails Kit - 1930ES (Includes Items 2-16, 19, 21, 25, 27-29, 32, 33, 35-36, 38 & 40-41)	

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FIGURE 4-5. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200150266 through 0200152825, SN 1200007882 through 1200008481)



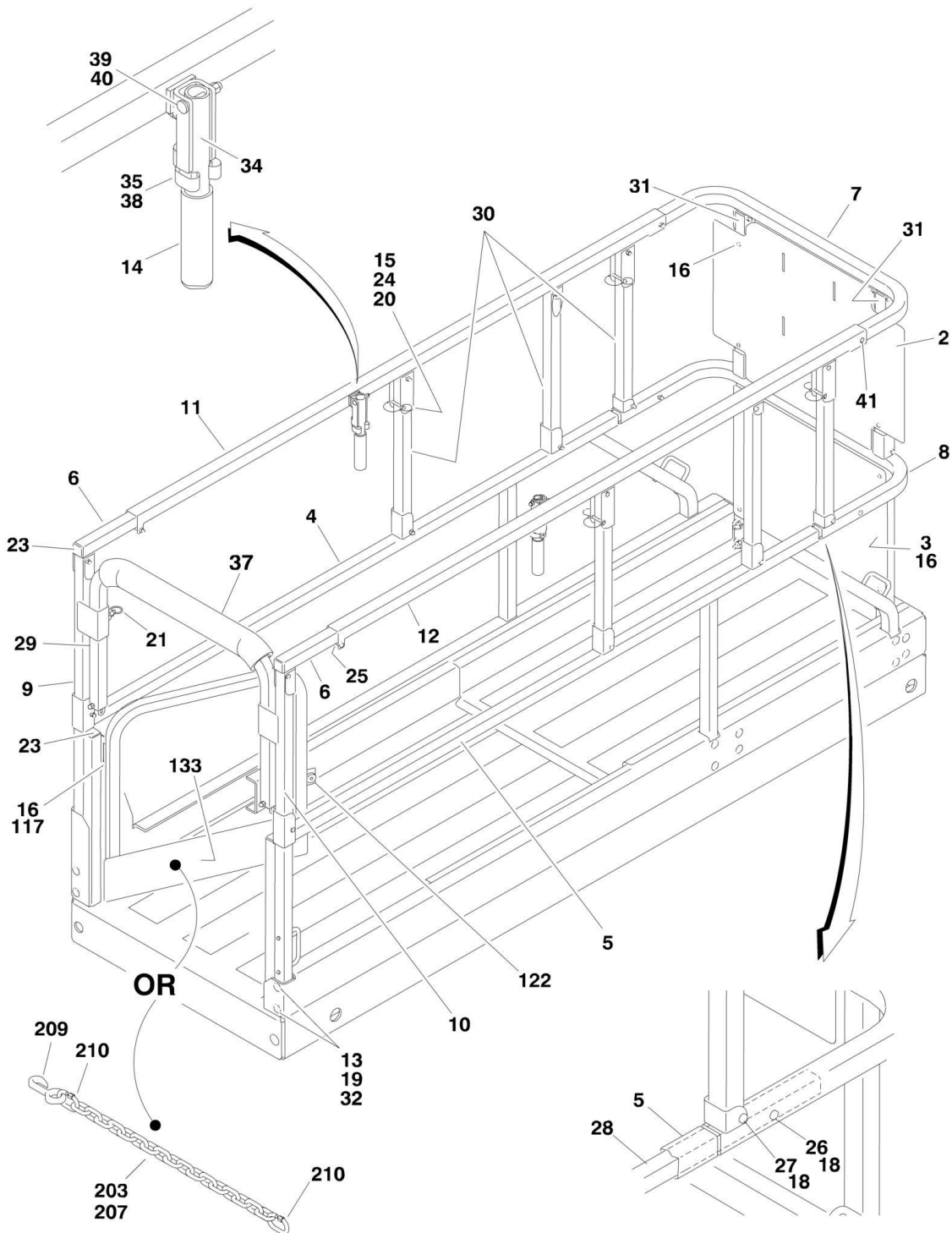
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FIGURE 4-5. RAIL (FOLD-DOWN) INSTALLATION - 1930ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200150266 through 0200152825, SN 1200007882 through 1200008481)

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
102	1271617	1	Rail, Slide (Left)	
103	1271618	1	Rail, Slide (Right)	
104	2560191	2	Handle, Extension	
105	3574184	1	Plate, Billboard (Lower)	
106	3576932	1	Plate, Billboard (Upper)	
107	3641619	1	Rail (Front Upper)	
108	3641620	1	Rail (Front Mid)	
109	3641650	1	Rail (Left Lower Side)	
110	3641651	1	Rail (Right Lower Side)	
111	3641652	2	Rail (Both Upper Sides)	
112	3641653	1	Rail (Left Rear Upper)	
113	3641654	1	Rail (Right Rear Upper)	
114	4568667	2	Tube, Folding (Both Mid Side)	
115	4569404	2	Tube, Folding (Both Front)	
116	4569428	1	Rail (Rear)	
117	1380132	2	Clip, Gripper	
118	2080040	8	Fastener, Huck	
119	2560088	2	Cover, Handle	
120	3290606	14	Capnut M6	
121	3290806	2	Capnut M8	
122	3340612	18	Pad, Rail	
		in/46cm		
123	3423278	4	Snap Pin/Lanyard Kit	
124	3820019	2	Rivet	
125	3860111	2	Roller	
126	3900345	2	Capscrew M8 x 45mm	
127	4010617	12	Screw M6 x 45mm	
128	4010618	2	Screw M6 x 50mm	
129	4846723	1	Gate	
	2902536		Rails Kit - 1930ES (Includes Items 102-116)	H

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



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

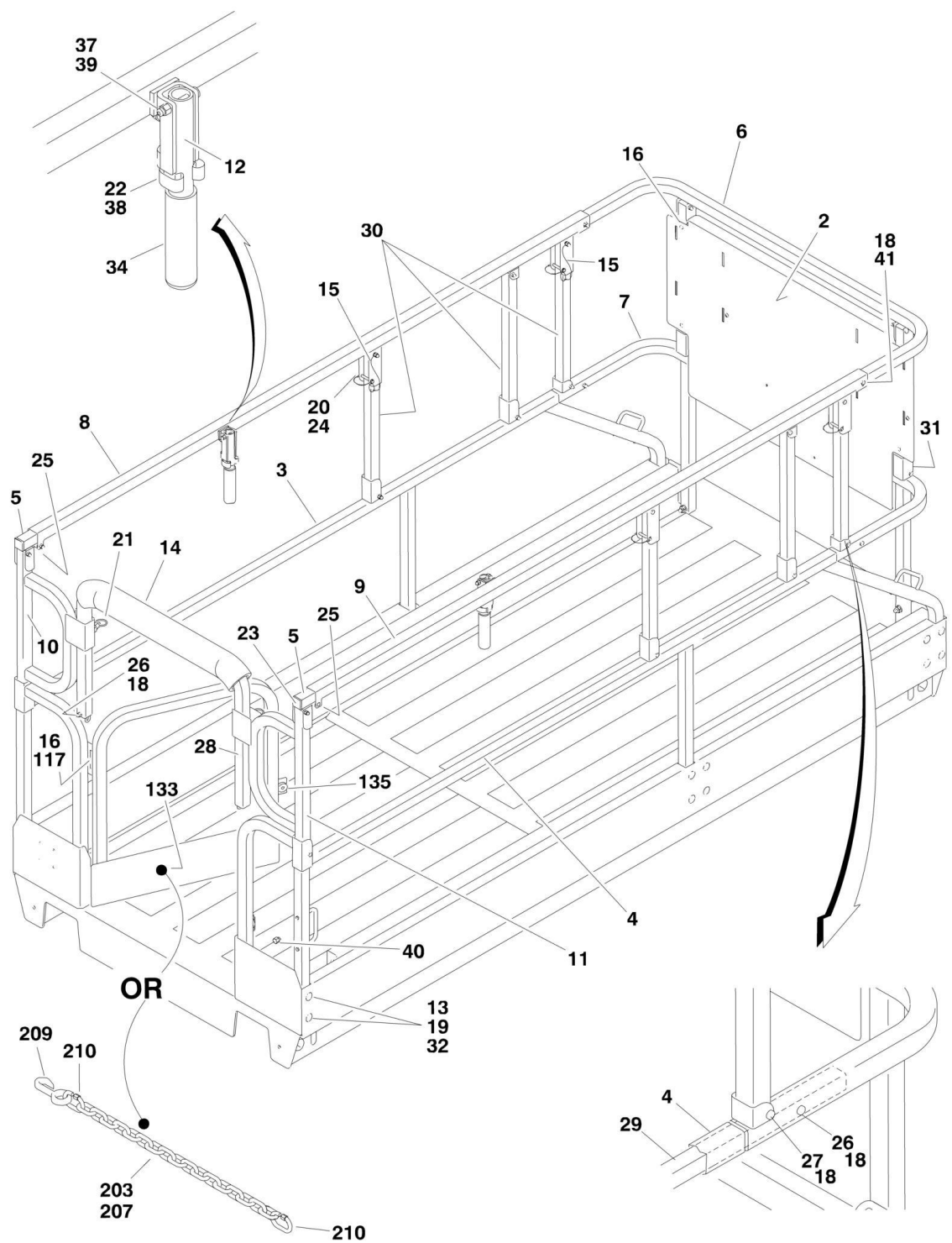
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	RAIL INSTALLATION - 2030ES/2630ES	
	0272667	Ref	Rails with Gate Closure	J
	0272911	Ref	Rails with Chain Closure	H
2	3574183	1	Plate, Billboard (Upper)	
3	3574184	1	Plate, Billboard (Lower)	
4	4846791	1	Rail, Side (Left)	
5	4846792	1	Rail, Side (Right)	
6	4846793	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	3423278	1	Lanyard (was p/n 1060379)	
16	2080040	AR	Fastener, Huck	
18	3290606	AR	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	
23	3520072	4	Cap-Plug	
24	3760170	4	Ring, Split	
25	3860085	2	Roller	
26	4010616	AR	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	
34		Ref	Handle, Extension Options:	
34	4846786	2	USA Built Machines (SN 0200135154 through 0200145593)	
34	4846786	1	Belgium Built Machines (SN 1200004293 through 1200005293)	
34	2560191	2	USA Built Machines (SN 0200145594 through 0200152825)	
34	2560191	1	Belgium Built Machines (SN 1200005294 through 1200008481)	
35	1380132	2	Clip, Gripper	
37	3340612	18 in/46cm	Pad, Rail	
38	3820019	2	Rivet	
39	3900345	2	Screw M8 x 45mm	
40	3290806	2	Capnut M8	
41	4010618	2	Screw M6 x 50mm (USA Built Machines) (SN 0200145594 through 0200152825)	
41	4010618	1	Screw M6 x 50mm (Belgium Built Machines) (SN 1200005294 through 1200008481)	
		Ref	Rails Kit - 2030ES/2630ES Options:	
	2902376	1	Rails with Gate Closure (Includes Items 2-12, 14-15, 20-21, 24-	H

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2902382	1	25, 27, 29-31, 33-41 & 133) 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
117	2600281	2	Hinge	
122	3080007	1	Magnet, Gate	
133	4846723	1	Gate	
	0272911	Ref	CHAIN CLOSURE COMPONENTS	H
203	1260136	2 ft/61cm	Chain	
207	2820097	2 ft/61cm	Cover, Chain	
209	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 210)	
210	3010088	2	Link	

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FIGURE 4-7. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200151584, SN 1200004293 through 1200008264)



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FIGURE 4-7. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200135154 through 0200151584, SN 1200004293 through 1200008264)

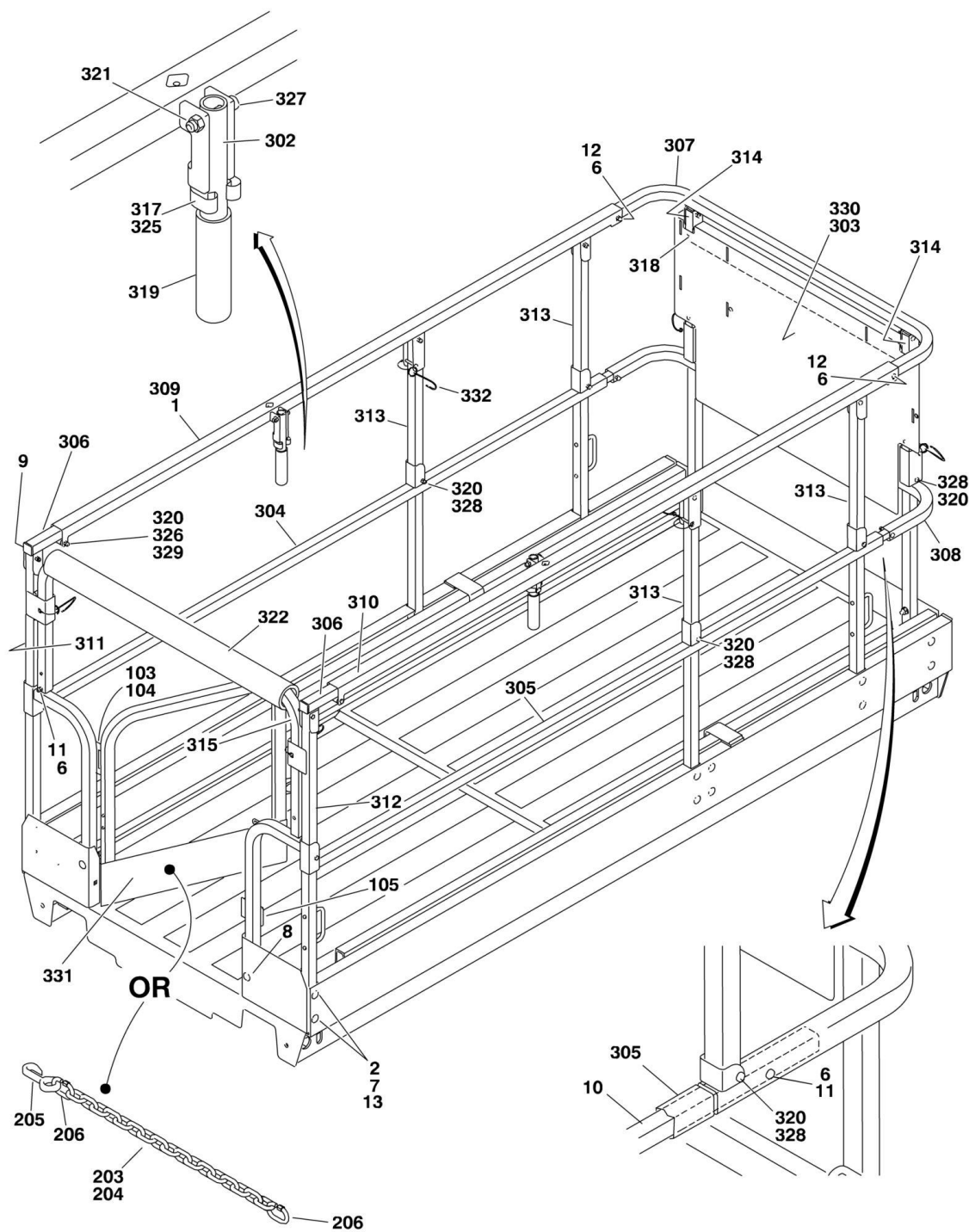
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	RAIL INSTALLATION - 2646ES/3246ES	
	0272697	Ref	Gate Entry	K
	0272912	Ref	Chain Entry	I
2	3574150	1	Plate, Bill Board	
3	3641582	1	Rail, Side (Left)	
4	4846771	1	Rail, Side (Right)	
5	4846772	2	Rail, Platform (Top)	
6	4846776	1	Rail, Extension (Top)	
7	4846777	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		Ref	Handle, Extension Options:	
12	4846786	2	USA Built Machines (SN 0200135154 through 0200145593)	
12	4846786	1	Belgium Built Machines (SN 1200004293 through 1200005293)	
12	2560191	2	USA Built Machines (SN 0200145594 through 0200151585)	
	2560191	1	Belgium Built Machines (SN 1200005294 through 1200008265)	
13	0630565	18	Bolt, Carriage M10 x 55mm	
14	3340612	18	Pad, Cover	
		in/46cm		
15	Item 20	4	Lanyard (Was p/n 1060379)	
16	2080040	AR	Fastener, Huck	
16	2080040	12	Gate Entry	
16	2080040	4	Chain Entry	
18	3290606	AR	Capnut M6	
19	3291005	18	Locknut M10	
20	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	AR	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	
34	2560088	2	Grip, Handle	
37	3290806	2	Capnut M8	
38	3820019	2	Rivet	
39	3900345	2	Screw M8 x 45	
40	3300477	2	Nut, Acorn	
41	4010618	2	Screw M6 x 50mm (USA Built Machines) (SN 0200145594 through 0200151585)	
41	4010618	1	Screw M6 x 50mm (Belgium Built Machines) (SN 1200005294 through 1200008265)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	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
117	2600281	2	Hinge	
133	4846723	1	Gate	
135	3080007	1	Magnet, Gate	
	0272912	Ref	CHAIN ENTRY INSTALLATION	I
203	1260136	2 ft/61m	Chain	
207	2820097	2 ft/61m	Cover, Chain	
209	1001101076	1	Snap Latch Repair Kit (was p/n 2940064) (Includes Item 210)	
210	3010088	2	Link, Repair	

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FIGURE 4-8. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200151585 through 0200152825, SN 1200008265 through 1200008481)



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FIGURE 4-8. RAIL INSTALLATION - 2646ES/3246ES (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200151585 through 0200152825, SN 1200008265 through 1200008481)

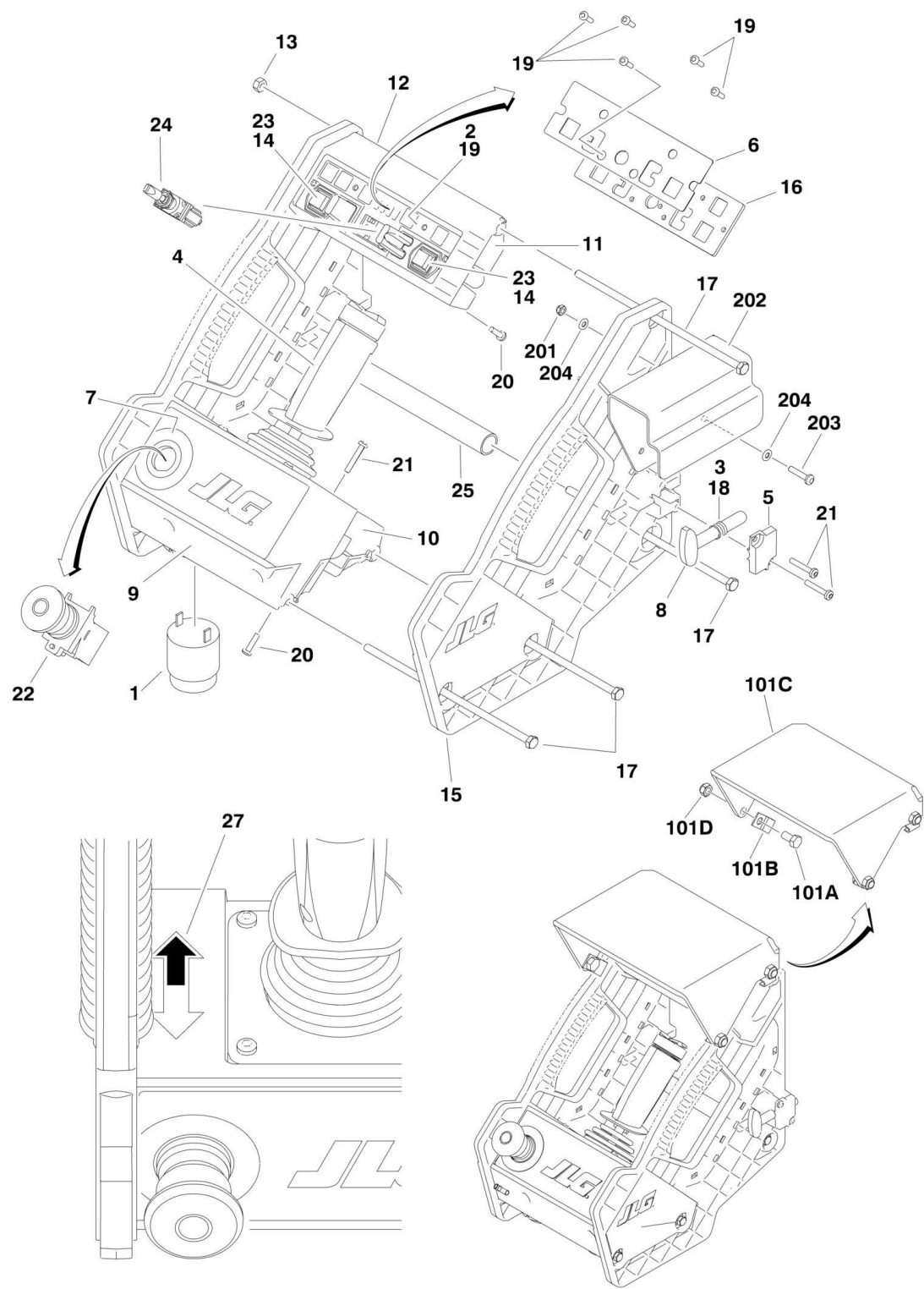
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	RAIL INSTALLATION - 2646ES/3246ES	
	0274932	Ref	Rails with Gate Closure	A
	0274933	Ref	Rails with Chain Closure	C
1		Ref	Rail Assembly Options (See Items 301-332 for Breakdown):	
1	2902490	1	Rails with Gate Closure	
1	2902491	1	Rails with Chain Closure	
2	0630565	18	Bolt, Carriage M10 x 55mm	
6	3290606	2	Capnut M6	
7	3291005	18	Locknut M10	
8	3300477	2	Nut, Acorn	
9	3520072	2	Cap-Plug	
10	3841716	2	Rod, Fiber Glass	
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
103	2080040	8	Fastener, Huck	
104	2600281	2	Hinge	
105	3080007	1	Magnet, Gate	
	0274933	Ref	CHAIN CLOSURE COMPONENTS	C
203	1260136	1.75 ft/53cm	Chain (was 2ft/61cm)	
204	2820097	1.67 ft/51cm	Cover, Chain (was 2ft/61cm)	
205	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
302	2560191	2	Handle, Extension	
303	3576646	1	Plate, Bill Board	
304	3641607	1	Rail, Side (Left Lower)	
305	3641608	1	Rail, Side (Right Lower)	
306	3641609	2	Rail, Platform (Top)	
307	3641610	1	Rail, Extension (Top)	
308	3641611	1	Rail, Extension (Mid)	
309	3641612	1	Rail, Slide (Left)	
310	3641613	1	Rail, Slide (Right)	
311	3641614	1	Rail, Side (Left Rear)	
312	3641615	1	Rail, Side (Right Rear)	
313	4568667	4	Tube, Folding Post (Platform)	
314	4569404	2	Tube, Folding Post (Extension)	
315	4569310	1	Rail (Rear)	
317	1380132	2	Clip, Gripper	
318	2080040	6	Fastener, Huck	
319	2560088	2	Handle	
320	3290606	18	Capnut M6	
321	3290806	2	Capnut M8	
322	3340612	18	Pad, Rail	

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

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FIGURE 4-9. PLATFORM CONSOLE BOX INSTALLATION



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FIGURE 4-9. PLATFORM CONSOLE BOX INSTALLATION

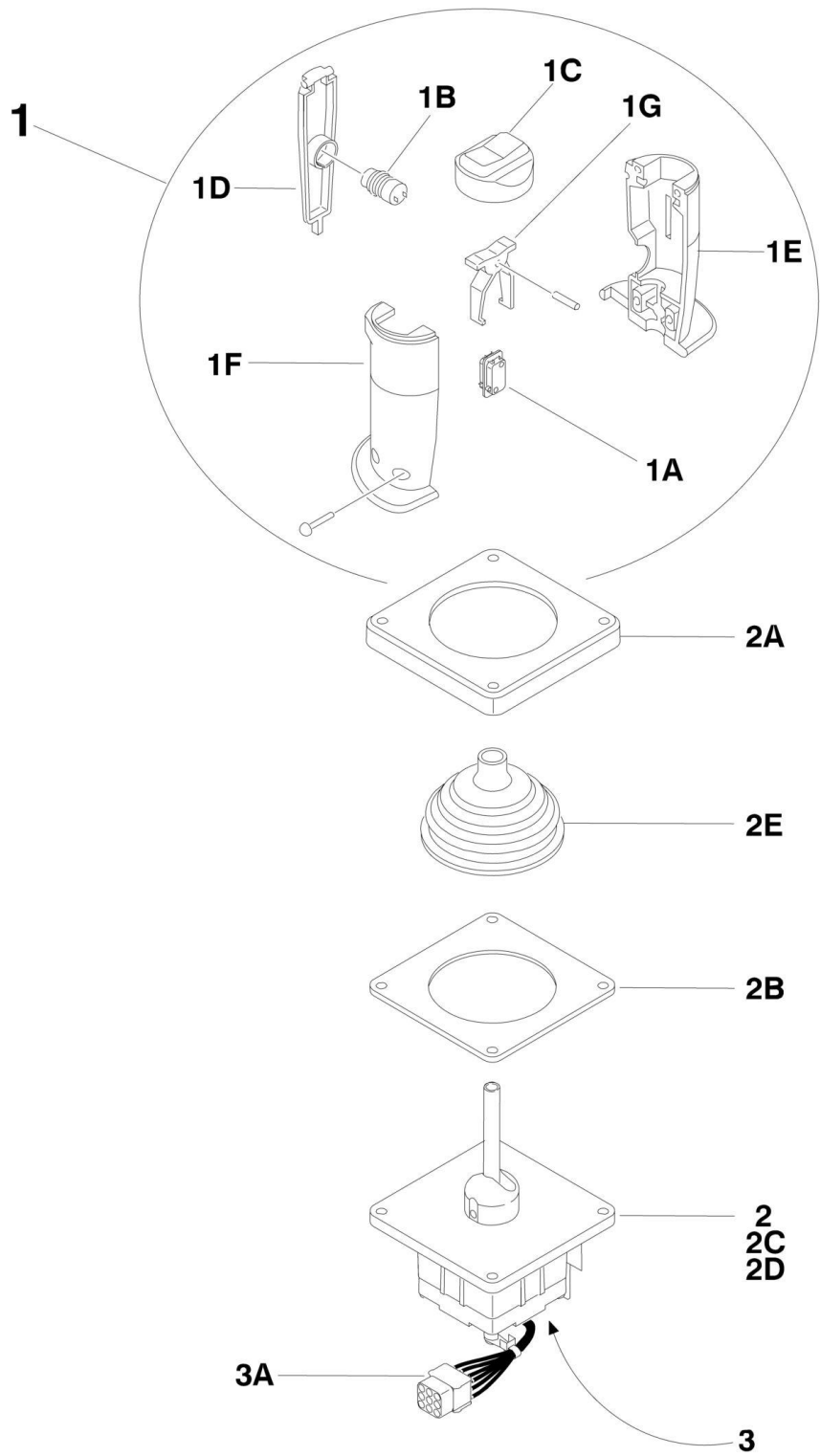
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CONSOLE BOX ASSEMBLY	
	0272778	Ref	All Specs except CE Spec (See Note)	I
	0272779	Ref	CE Spec (See Note)	I
		Ref	Note: When replacing complete assembly, use p/n 1001091153 for All Specs except CE Spec Machines. Use p/n 1001091154 for CE Specs Machines.	
1	0140011	1	Alarm	
2	Kit 3		Platform Box Control Module (was p/n 0610162 & 1600439)	
3	1380156	1	E-Clip	
4	1001134438	1	Drive/Steer Controller Assembly (Original Equipment was p/n 1600345 - See DRIVE/STEER CONTROLLER ASSEMBLY for Breakdown) (For Service Replacement Components p/n 1600402 & 1001134438 - See DRIVE/STEER CONTROLLER ASSEMBLY for Breakdown)	
5	1671098	1	Latch	
6		Ref	Decal - Icon Options:	
6	1705674	1	All Specs except CE Spec	
6	1705675	1	CE Spec	
7	1705676	1	Decal - Emergency Stop Ring	
8	2560179	1	Handle, Latch	
9	1001091390	1	Housing, Joystick (Lower) (was p/n 2760113)	
10	1001091390	1	Mount, Joystick (was p/n 2760114)	
11	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	
22	7020175	1	Cap	
22	7020176	1	Block, Contact	
23	4360538	2	Strip, Switch and Membrane	
24	4360539	1	Switch, Toggle	
25	4568738	1	Tube, Spacer	
26	4922870	1	Harness, Platform Box (Not Shown - See ELECTRICAL SECTION for Breakdown)	
27	1703819	1	Decal - Directional Arrow	
		Ref	Kit Options:	
	1001091967	1	Kit 1- Decal Kit for USA Built Machines (Includes Items 6, 16 & 19) (Prior to SN 0200163756)	A
	1001091967	1	Kit 1- Decal Kit for Belgium Built Machines (Includes Items 6, 16 & 19) (Prior to SN 1200011998)	A
		Ref	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.	
		Ref	Note: If Housing has been replaced with Kit 1001091393 or Kit 1001091965, use Decal Kit p/n 1001091968	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091393	1	Kit 2 - Decal and Housing Kit (Includes Items 6, 12, 16 & 19)	A
		Ref	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.	
	1001091965	1	Kit 3 - Decal, Housing and PC Board Kit (Includes Items 2, 6, 12, 16, 19 & 19)	A
		Ref	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.	
	0272878	Ref	Anti-vandalism Package Installation (Not Shown)	A
	1671131	1	Cover, Lockable Platform Console Box	
	1001118216	Ref	PLATFORM BOX COVER INSTALLATION (was p/n 0273841)	A/C
101	1001118215	Ref	Kit, Platform Box Shield (was p/n 2902341)	
101A	0760808	4	Bolt M8 x 16mm	
101B	1380159	4	Clip, Cover Mounting	
101C	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	

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



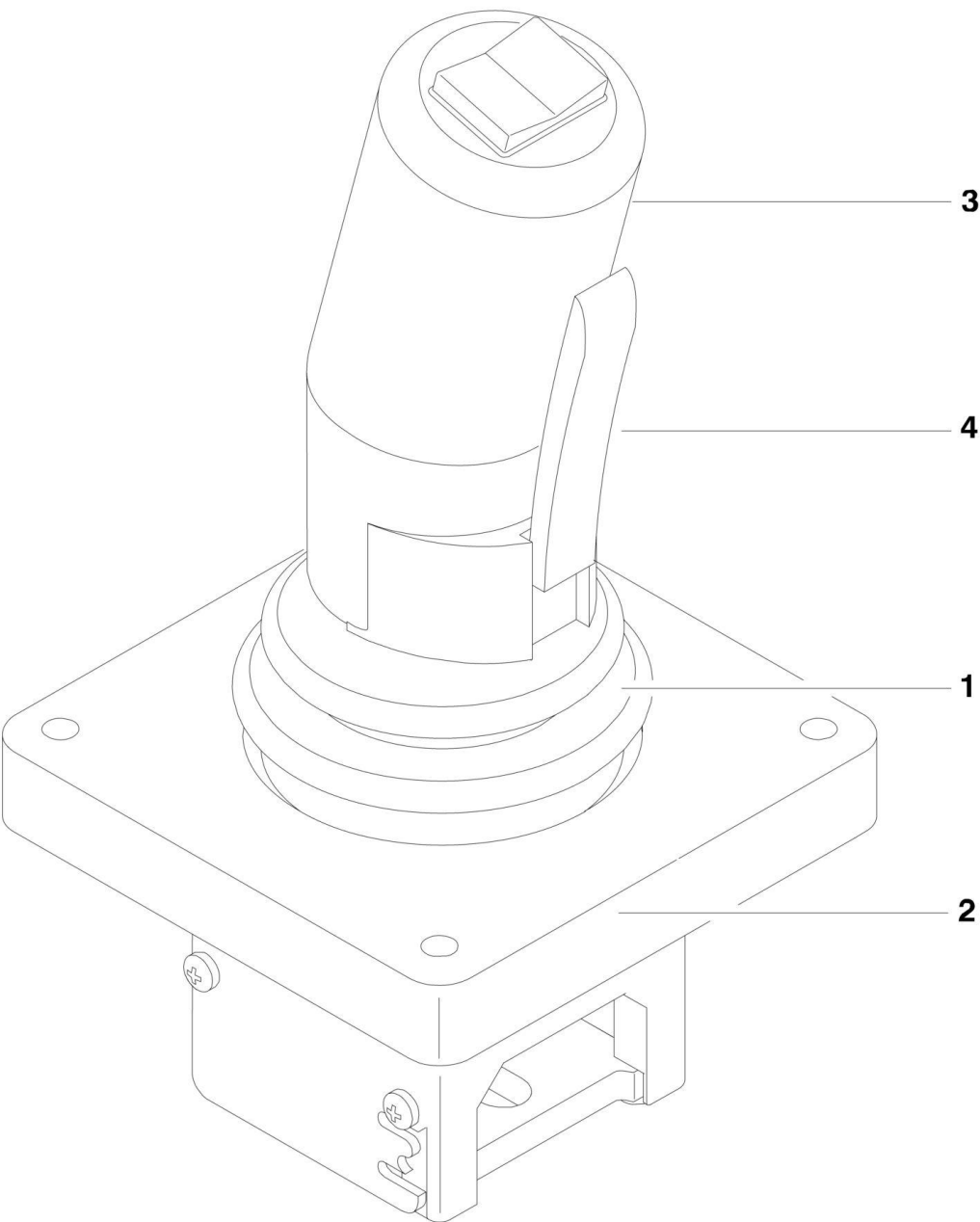
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FIGURE 4-10. DRIVE/STEER CONTROLLER ASSEMBLY (ORIGINAL EQUIPMENT)

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	
3A	4460226	7	Socket, Female	
3A	4460265	1	Plug, Male-9 Position (Part of Platform Box Harness)	
3A	4460227	7	Pin, Male (Part of Platform Box Harness)	

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



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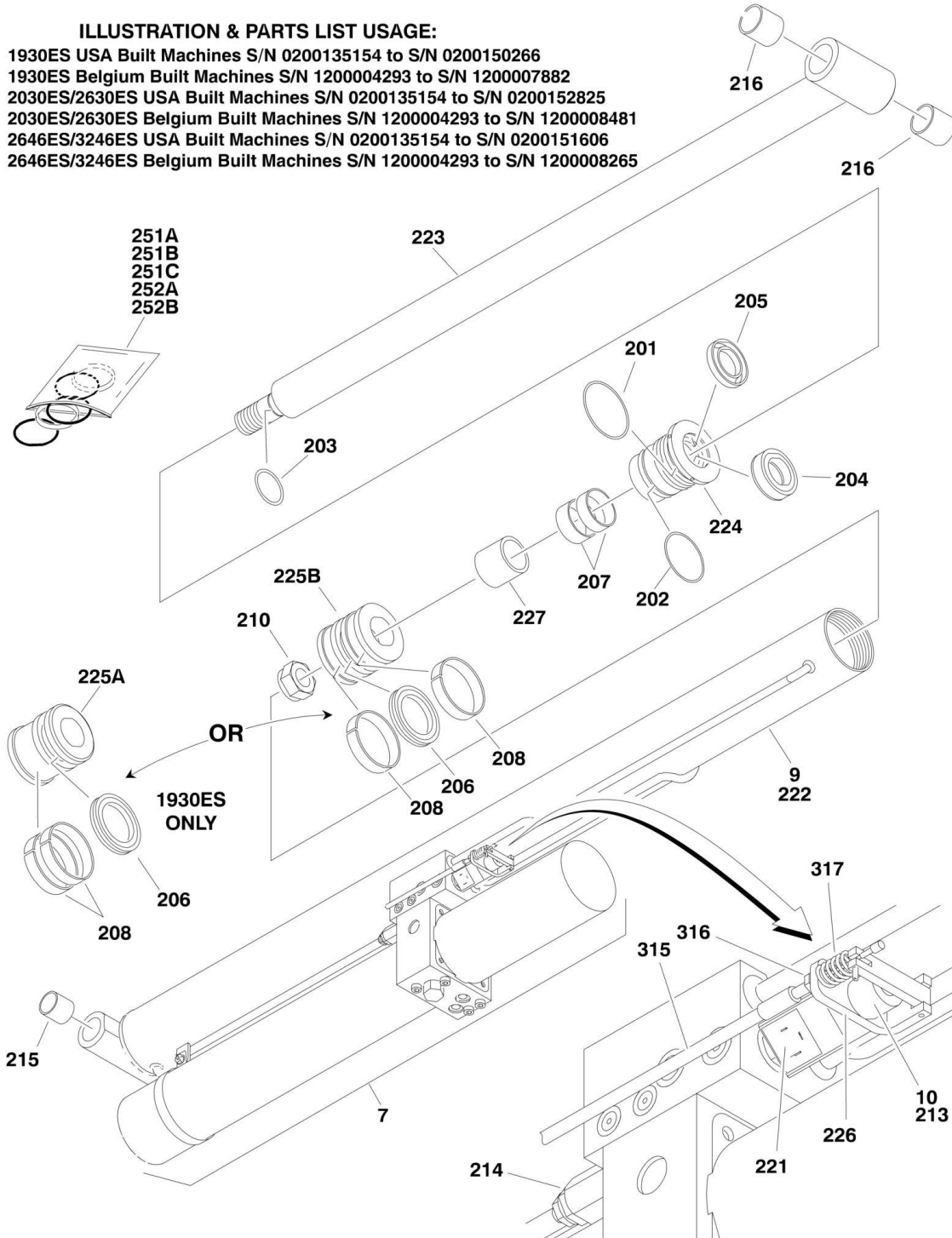
FIGURE 4-11. DRIVE/STEER CONTROLLER ASSEMBLY (SERVICE REPLACEMENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	See Note	1	DRIVE/STEER CONTROLLER ASSEMBLY	A
		Ref	Note: Use p/n 1001134438 as replacement (was p/n 1600402). Original Equipment was p/n 1600345.	
1	70001250	1	Boot, Panel	
2	70001252	1	Gasket, Mounting	
2	70001251	1	Bezel, Mounting	
3	70003650	1	Handle Repair Kit (Includes handle gasket, item#4 push button and item #4 lever installed in front handle half, back handle half, top actuator, boot and hardware.)	
3	70000084	1	Cap, Rubber	
3	70000082	1	Microswitch	
3	7027766	1	Ring, Retaining	
3	7027365	1	Actuator, Handle	
3	70001253	1	Gasket, Handle	
3	70000683	4	Washer, Neoprene	
3	70000685	2	Spacer, Plastic	
3	70000686	2	Screw (Top)	
3	70000684	2	Screw (Bottom)	
4	7027367	1	Switch, Push button	
4	7027765	1	Lever, Enable	

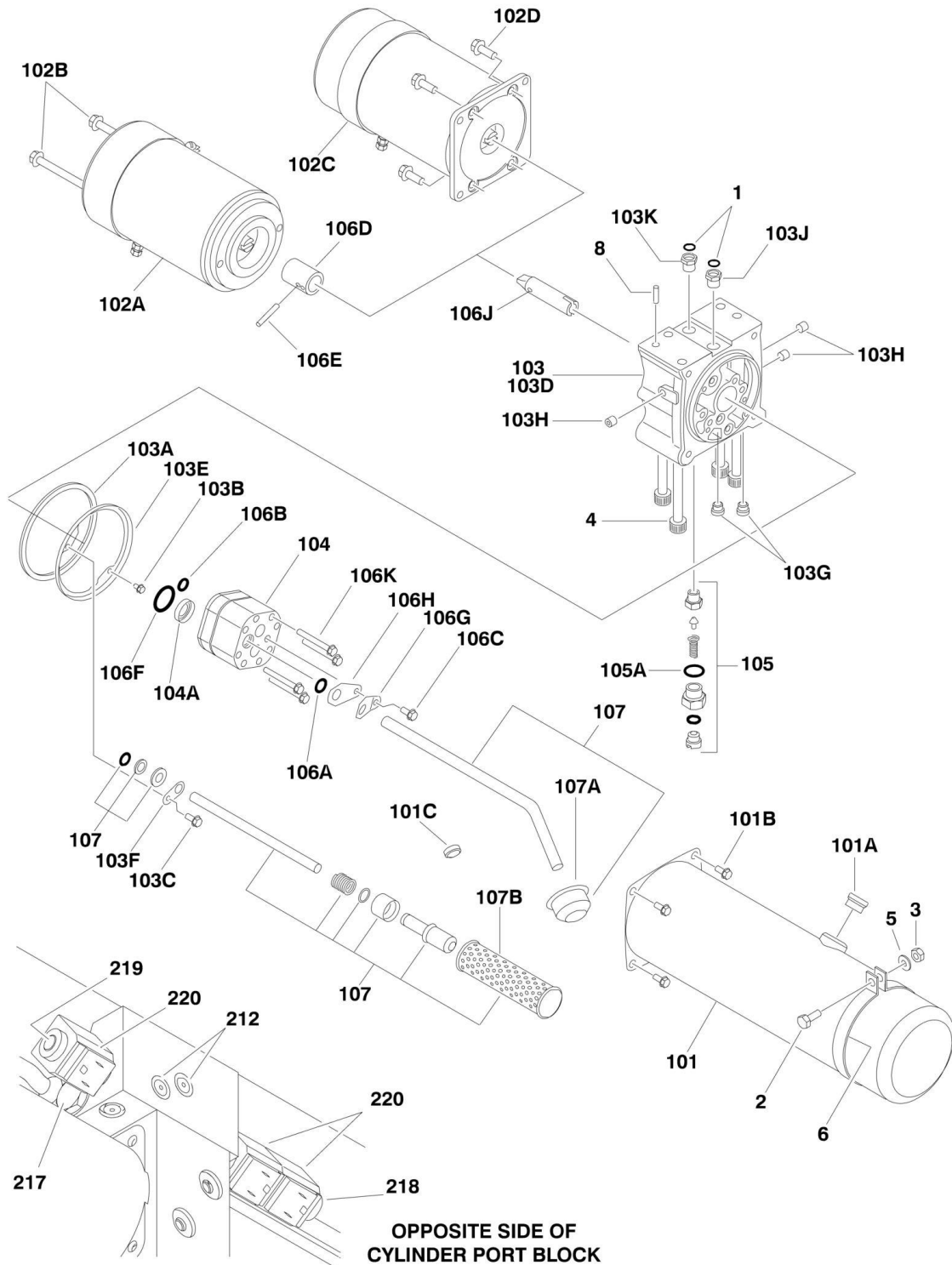
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FIGURE 5-1. LIFT CYLINDER ASSEMBLY (1930ES SN 0200135154 through 0200150266, SN 1200004293 through 1200007882; 2030ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2630ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2646ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265; 3246ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265)



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FIGURE 5-1. LIFT CYLINDER ASSEMBLY (1930ES SN 0200135154 through 0200150266, SN 1200004293 through 1200007882; 2030ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2630ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2646ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265; 3246ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ILLUSTRATION AND PARTS LIST USAGE:	
		Ref	Illustration and Parts List Usage 1930ES - USA Built Machines (SN 0200135154 through 0200150266)	
		Ref	Illustration and Parts List Usage 1930ES - Belgium Built Machines (SN 1200004293 through 1200007882)	
		Ref	Illustration and Parts List Usage 2030ES/2630ES - USA Built Machines (SN 0200135154 through 0200152825)	
		Ref	Illustration and Parts List Usage 2030ES/2630ES - Belgium Built Machines (SN 1200004293 through 1200008481)	
		Ref	Illustration and Parts List Usage 2646ES/3246ES - USA Built Machines (SN 0200135154 through 0200151606)	
		Ref	Illustration and Parts List Usage 2646ES/3246ES - Belgium Built Machines (SN 1200004293 through 1200008265)	
		Ref	LIFT CYLINDER ASSEMBLY	
	1684265	Ref	Lift Cylinder Assembly 1930ES	E
	1684258	Ref	Lift Cylinder Assembly 2030ES	D
	1684302	Ref	Lift Cylinder Assembly 2630ES	C
	1684260	Ref	Lift Cylinder Assembly 2646ES	F
	1684257	Ref	Lift Cylinder Assembly 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		Ref	Power Pack Assembly - Complete Options (See Items 101-107B for Breakdown):	
7	7023558	1	Power Pack Assembly 1930ES	
7	7023549	1	Power Pack Assembly 2030ES	
7	7023568	1	Power Pack Assembly 2630ES	
7	7023557	1	Power Pack Assembly 2646ES	
7	7023535	1	Power Pack Assembly 3246ES	
8		Ref	Pin, Alignment Options:	
8	70003646	2	Pin, Dowel	
8	70003645	2	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)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023558	Ref	Power Pack Assembly 1930ES (1684265 Cylinder)	
	7023549	Ref	Power Pack Assembly 2030ES (1684258 Cylinder)	
	7023568	Ref	Power Pack Assembly 2630ES (1684302 Cylinder)	
	7023557	Ref	Power Pack Assembly 2646ES (1684260 Cylinder)	
	7023535	Ref	Power Pack Assembly 3246ES (1684257 Cylinder)	
101		Ref	Tank Kit Options (Note: Includes Tank and Items 101A-101C):	
101	7023569	1	Tank Kit 1930ES	
101	7023587	1	Tank Kit 2030ES	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	7023585	1	Tank Kit 2630ES	
101	7023578	1	Tank Kit 2646ES	
101	7023583	1	Tank Kit 3246ES	
101A	7023593	1	Plug, Fill	
101B	Item 101	4	Screw	
101C	Item 101	1	Magnet	
102		Ref	Motor Options:	
102A	7023570	1	Motor 1930ES/2030ES/2630ES	
102A	70000658	1	Brush Kit - 7023570 Motor	
102B	Not Available	2	Screw	
102C	7023579	1	Motor 2646ES/3246ES	
102C	70000659	1	Brush Kit - 7023579 Motor	
102D	Not Available	4	Screw	
102D	Not Available	4	Washer	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring	
103B	Item 103	1	Screw	
103C	Item 103	1	Screw	
103D	Item 103	1	Adapter	
103E	See Note	1	Seal (Note: Use Item 252A or 252B)	
103F	Item 103	1	Retainer	
103G	2220883	2	Plug	
103H	Item 103	3	Plug	
103J	Item 103	1	Breather 9/16in- 12UNC	
103K	Item 103	1	Breather 9/16in- 18SAE	
104		Ref	Pump Options:	
		Ref	Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.	
104	7023572	1	Pump 1930ES/2630ES	
104	7023588	1	Pump 2030ES	
104	7023580	1	Pump 2646ES/3246ES	
104A	See Note	1	Seal, Shaft (Note: Use Item 252A or 252B)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	Not Available	1	Seal	
106B	See Note	1	Seal (Note: Use Item 252A or 252B)	
106C	Not Available	1	Screw	
106D	Item 106J	1	Sleeve (1930ES/2030ES/2630ES Only)	
106E	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		Ref	Coupler Kit Options:	
106J	7023574	1	Coupler Kit 1930ES/2030ES/2630ES (Includes Items 106D & 106E)	
106J	7023581	1	Coupler Kit 2646ES/3246ES	
106K	Not Available	4	Screw	
107		Ref	Tube Kit Options:	
107	7023575	1	Tube Kit 1930ES	
107	7023586	1	Tube Kit 2030ES/2630ES	
107	7023582	1	Tube Kit 2646ES	

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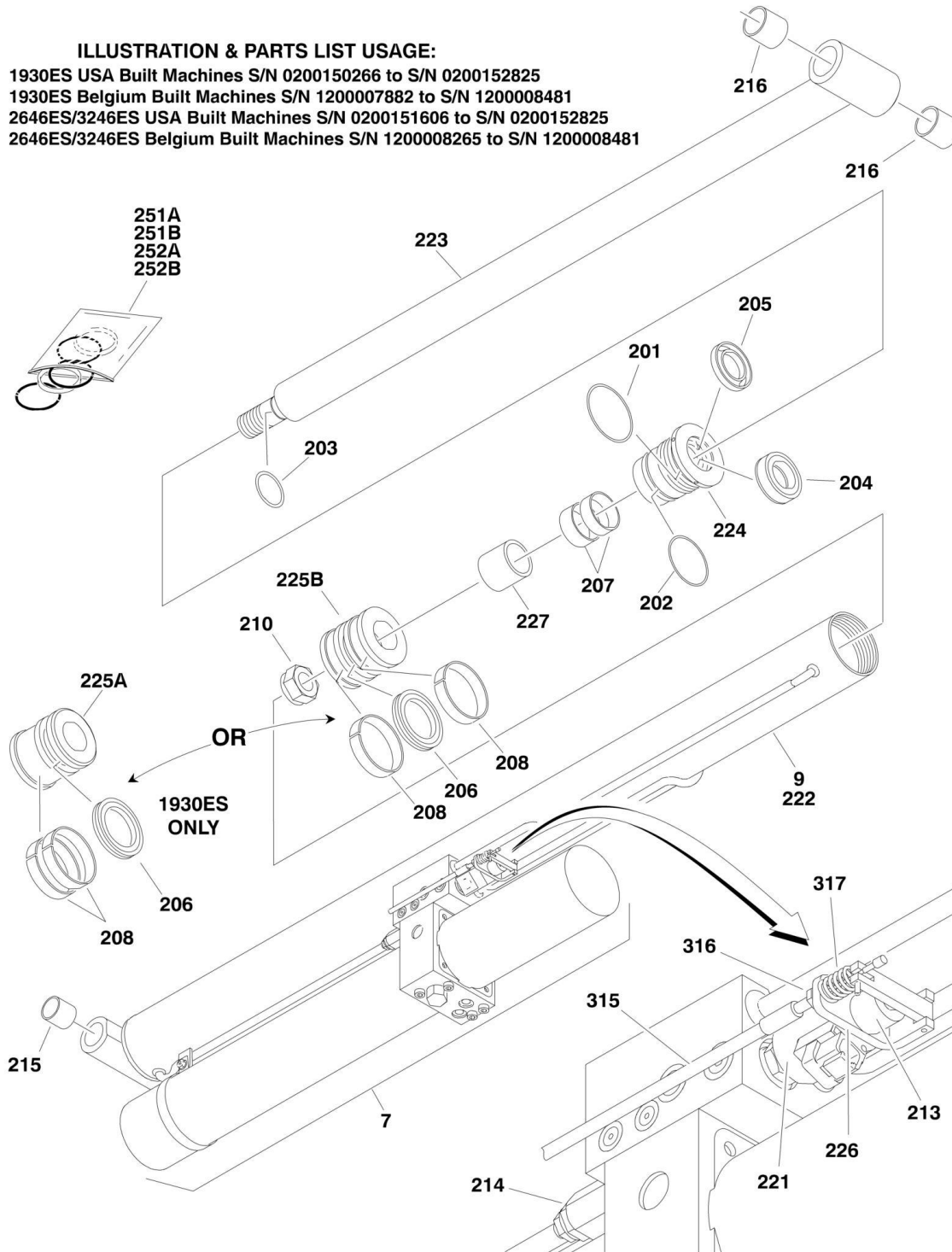
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
107	7023584	1	Tube Kit 3246ES	
107A	Item 107	1	Strainer	
107B	7023576	1	Filter Element (Includes Seal)	
		Ref	CYLINDER ASSEMBLY ONLY COMPONENTS	
201	See Note	1	O-Ring (Note: Use Item 251A, 251B or 251C)	
202	See Note	1	O-Ring (Note: Use Item 251A, 251B or 251C)	
203	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)	
		Ref	(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)	
210	70004193	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		Ref	Bushing Options:	
215	0962257	2	Bushing 1930ES/2030ES/2630ES	
215	0962006	2	Bushing 2646ES/3246ES	
216		Ref	Bushing Options:	
216	0962257	2	Bushing 1930ES/2030ES/2630ES	
216	0962181	2	Bushing 2646ES/3246ES	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	7023541	3	Coil (Steer AND Lift Up)	
221	7023540	1	Coil (Lift Down)	
222		Ref	Barrel Options:	
222	7023553	1	Barrel 1930ES	
222	7023548	1	Barrel 2030ES/2630ES	
222	7023556	1	Barrel 2646ES	
222	7023534	1	Barrel 3246ES	
223		Ref	Rod Options:	
223	7023552	1	Rod 1930ES	
223	7023547	1	Rod 2030ES/2630ES	
223	7023555	1	Rod 2646ES	
223	7023533	1	Rod 3246ES	
224		Ref	Head Options:	
224	7023551	1	Head 1930ES	
224	7023546	1	Head 2030ES/2630ES	
224	7023532	1	Head 2646ES/3246ES	
225		Ref	Piston Options:	
225A	7023550	1	Piston 1930ES	
225B	7023545	1	Piston 2030ES/2630ES	
225B	7023531	1	Piston 2646ES/3246ES	
226	7023530		Emergency Release Assembly	
227		Ref	Spacer Options:	
227	Not Required	0	Spacer 1930ES/2030ES/2630ES/2646ES	
227	7023529	1	Spacer 3246ES	

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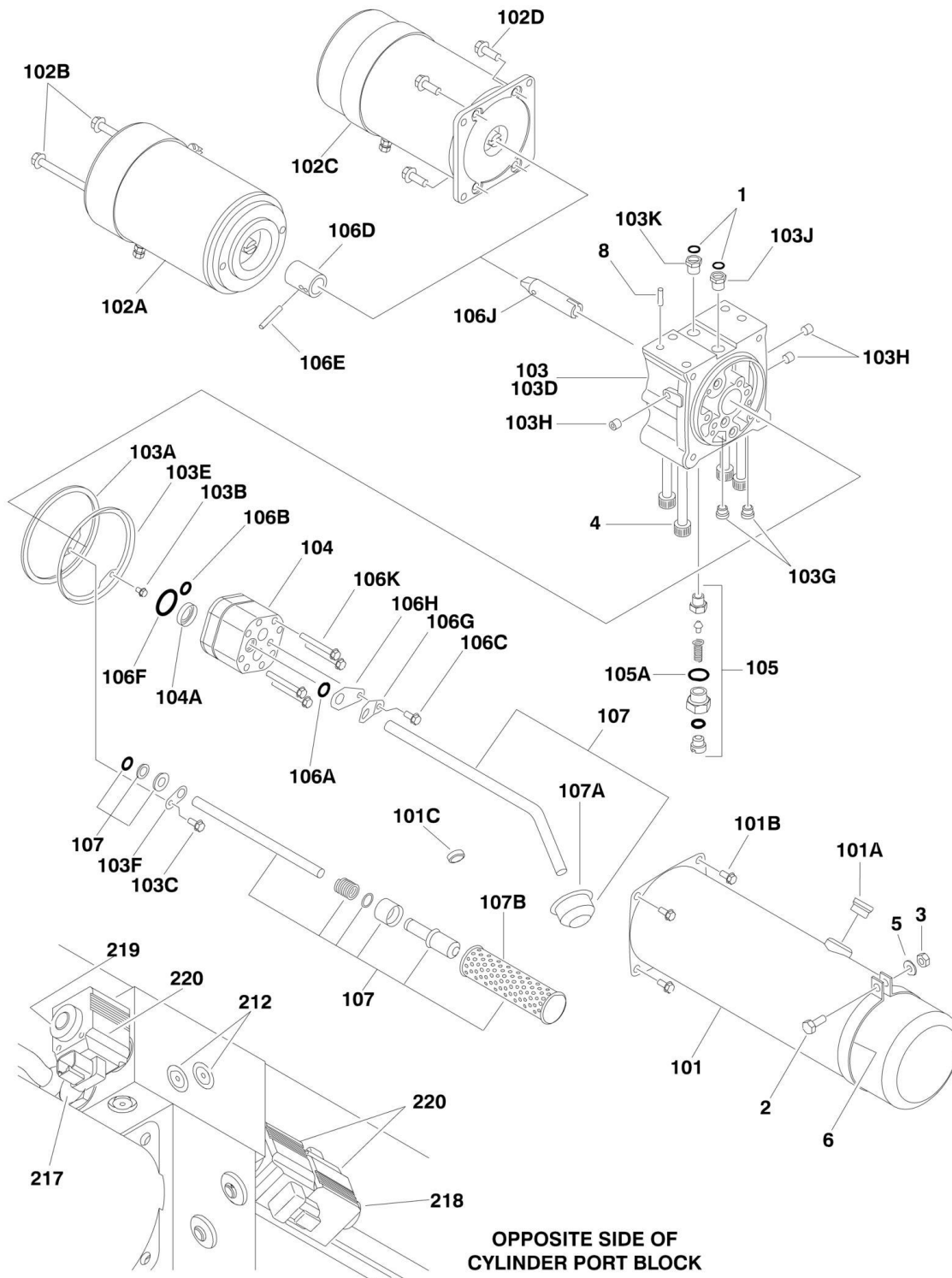
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SEAL KIT OPTIONS	
251		Ref	Seal Kit - Cylinder Options (Includes Items 201-208):	
251A	7023554	1	Seal Kit 1930ES	
251B	7023544	1	Seal Kit 2030ES/2630ES	
251C	7023528	1	Seal Kit 2646ES/3246ES	
252		Ref	Seal Kit - Reservoir/Pump Options (Includes 103A, 103E, 104A, 106B & 106F):	
252A	70001709	1	Seal Kit 1930ES/2030ES/2630ES	
252B	70001982	1	Seal Kit 2646ES/3246ES	
		Ref	MANUAL DESCENT COMPONENTS	
	0272735	Ref	Manual Descent Components 1930ES	H
	0272730	Ref	Manual Descent Components 2030ES	D
	0272608	Ref	Manual Descent Components 2630ES	D
	0272623	Ref	Manual Descent Components 2646ES	F
	0272622	Ref	Manual Descent Components 3246ES	F
315		Ref	Cable, Pull Options:	
315	1061036	1	Cable, Pull 1930ES	
315	1061036	1	Cable, Pull 2030ES/2630ES (was p/n 1061035)	
315	1061034	1	Cable, Pull 2646ES/3246ES	
315	7020218	1	T-Handle (with 1/4in-20 Threads)	
315	70001878	1	T-Handle (with 5mm Threads)	
316	3321402	1	Nut, Jam 1/4in-18NF	
317	4160078	1	Spring	

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FIGURE 5-2. LIFT CYLINDER ASSEMBLY (1930ES SN 0200150266 through 0200152825, SN 1200007882 through 1200008481; 2646ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481; 3246ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)



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FIGURE 5-2. LIFT CYLINDER ASSEMBLY (1930ES SN 0200150266 through 0200152825, SN 1200007882 through 1200008481; 2646ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481; 3246ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ILLUSTRATION AND PARTS LIST USAGE:	
		Ref	1930ES - USA Built Machines (SN 0200150266 through 0200152825)	
		Ref	1930ES - Belgium Built Machines (SN 1200007882 through 1200008481)	
		Ref	2646ES/3246ES - USA Built Machines (SN 0200151606 through 0200152825)	
		Ref	2646ES/3246ES - Belgium Built Machines (SN 1200008265 through 1200008481)	
		Ref	LIFT CYLINDER ASSEMBLY	
	1684484	Ref	Lift Cylinder 1930ES with Standard Hydraulic Oil	C
	1684526	Ref	Lift Cylinder 1930ES with Biodegradeable Hydraulic Oil	B
	1684489	Ref	Lift Cylinder 2646ES with Standard Hydraulic Oil	C
	1684529	Ref	Lift Cylinder 2646ES with Biodegradeable Hydraulic Oil	B
	1684490	Ref	Lift Cylinder 3246ES with Standard Hydraulic Oil	C
	1684530	Ref	Lift Cylinder 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		Ref	Power Pack Assembly - Complete Options (See Items 101-107B for Breakdown):	
7	7023558	1	Power Pack Assembly 1930ES	
7	7023557	1	Power Pack Assembly 2646ES	
7	7023535	1	Power Pack Assembly 3246ES	
8		Ref	Pin, Alignment Options:	
8	70003646	2	Pin, Dowel	
8	70003645	2	Rollpin	
9	Not Available	1	Cylinder Assembly Only (See Items 201-227 for Breakdown)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023558	Ref	Power Pack Assembly 1930ES (1684484/1684526 Cylinders)	
	7023557	Ref	Power Pack Assembly 2646ES (1684489/1684529 Cylinders)	
	7023535	Ref	Power Pack Assembly 3246ES (1684490/1684530 Cylinders)	
101		Ref	Tank Kit Options (Note: Includes Tank & Item 101A-101C):	
101	7023569	1	Tank Kit 1930ES	
101	7023578	1	Tank Kit 2646ES	
101	7023583	1	Tank Kit 3246ES	
101A	7023593	1	Plug, Fill	
101B	Item 101	4	Screw	
101C	Item 101	1	Magnet	
102		Ref	Motor Options:	
102A	7023570	1	Motor 1930ES	
102A	70000658	1	Brush Kit - 7023570 Motor	
102B	Not Available	2	Screw	
102C	7023579	1	Motor 2646ES/3246ES	
102C	70000659	1	Brush Kit - 7023579 Motor	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102D	Not Available	4	Screw	
102D	Not Available	4	Washer	
103	7023571	1	Adapter	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring	
103B	Item 103	1	Screw	
103C	Item 103	1	Screw	
103D	Item 103	1	Adapter	
103E	See Note	1	Seal (Note: Use Item 252A or 252B)	
103F	Item 103	1	Retainer	
103G	2220883	2	Plug	
103H	Item 103	3	Plug	
103J	Item 103	1	Breather 9/16in- 12UNC	
103K	Item 103	1	Breather 9/16in- 18SAE	
104		Ref	Pump Options:	
		Ref	Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.	
104	7023572	1	Pump 1930ES	
104	7023580	1	Pump 2646ES/3246ES	
104A	See Note	1	Seal, Shaft (Note: Use Item 252A or 252B)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	Not Available	1	Seal	
106B	See Note	1	Seal (Note: Use Item 252A or 252B)	
106C	Not Available	1	Screw	
106D	Item 106J	1	Sleeve (1930ES Only)	
106E	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		Ref	Coupler Kit Options:	
106J	7023574	1	Coupler Kit 1930ES (Includes Items 106D & 106E)	
106J	7023581	1	Coupler Kit 2646ES/3246ES	
106K	Not Available	4	Screw	
107		Ref	Tube Kit Options:	
107	7023575	1	Tube Kit 1930ES	
107	7023582	1	Tube Kit 2646ES	
107	7023584	1	Tube Kit 3246ES	
107A	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 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)	
	See Note	1	(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)	
210	Not Available	1	Locknut	

SECTION 5 - CYLINDER

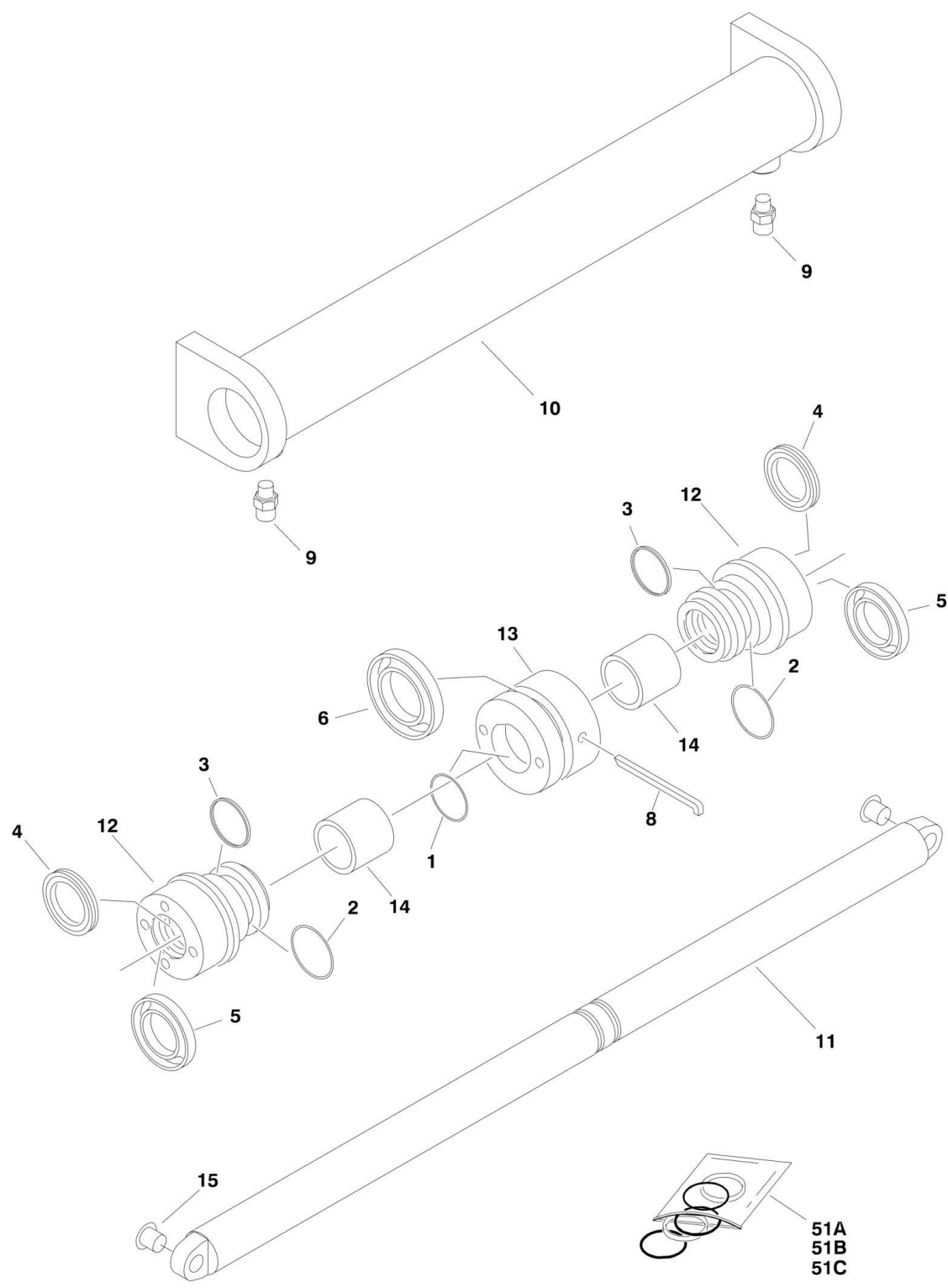
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
211	2220883	4	Plug, Steel (SAE #4) (Not Shown)	
212	2220882	8	Plug, Steel (SAE #3)	
213	7023543	1	Valve, Proportional (Lift Down)	
214	7023542	1	Valve, Relief (Steer)	
215		Ref	Bushing Options:	
215	0962257	2	Bushing, 1930ES	
215	0962006	2	Bushing, 2646ES/3246ES	
216		Ref	Bushing Options:	
216	0962257	2	Bushing, 1930ES	
216	0962181	2	Bushing, 2646ES/3246ES	
217	7023538	1	Valve, Check	
218	7023537	1	Directional Control Valve (Steer)	
219	7023536	1	Directional Control Valve (Lift Up)	
220	70000798	3	Coil (Steer and Lift Up)	
221	70000799	1	Coil (Lift Down)	
222		Ref	Barrel Options:	
222	7023553	1	Barrel, 1930ES	
222	7023556	1	Barrel, 2646ES	
222	7023534	1	Barrel, 3246ES	
223		Ref	Rod Options:	
223	7023552	1	Rod, 1930ES	
223	7023533	1	Rod, 2646ES/3246ES	
224		Ref	Head Options:	
224	7023551	1	Head, 1930ES	
224	7023532	1	Head, 2646ES/3246ES	
225		Ref	Piston Options:	
225A	7023550	1	Piston, 1930ES	
225B	7023531	1	Piston, 2646ES/3246ES	
226	7023530		Emergency Release Assembly	
227		Ref	Spacer Options:	
227	Not Required	0	Spacer, 1930ES/2646ES	
227	7023529	1	Spacer, 3246ES	
		Ref	SEAL KIT OPTIONS	
251		Ref	Seal Kit - Cylinder Options (Includes Items 201-208):	
251A	7023554	1	Seal Kit, 1930ES	
251B	7023528	1	Seal Kit, 2646ES/3246ES	
252		Ref	Seal Kit - Reservoir/Pump Options (Includes 103A, 103E, 104A, 106B & 106F):	
252A	70001709	1	Seal Kit, 1930ES	
252B	70001982	1	Seal Kit, 2646ES/3246ES	
		Ref	MANUAL DESCENT COMPONENTS	
	0274874	Ref	Manual Descent Components, 1930ES with Standard Hydraulic Oil	D
	0275692	Ref	Manual Descent Components, 1930ES with Biodegradable Hydraulic Oil	B
	0274879	Ref	Manual Descent Components, 2646ES with Standard Hydraulic Oil	C
	0275695	Ref	Manual Descent Components, 2646ES with Biodegradable Hydraulic Oil	B
	0274881	Ref	Manual Descent Components, 3246ES with Standard Hydraulic Oil	C
	0275696	Ref	Manual Descent Components, 3246ES with Biodegradable Hydraulic Oil	B

SECTION 5 - CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
315		Ref	Cable, Pull Options:	
315	1061036	1	9ft/2.74m Length (1930ES)	
315	1061034	1	12.5ft/3.81m Length (2646ES/3246ES)	
315	7020218	1	T-Handle (with 1/4in-20 Threads)	
315	70001878	1	T-Handle (with 5mm Threads)	
316	3321402	1	Nut, Jam 1/4in-18NF	
317	4160078	1	Spring	

SECTION 5 - CYLINDER

FIGURE 5-3. STEER CYLINDER ASSEMBLY



SECTION 5 - CYLINDER

FIGURE 5-3. STEER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	STEER CYLINDER ASSEMBLY	
	1684237	Ref	Steer Cylinder Assembly, 1930ES/2030ES/2630ES	D
	1684263	Ref	Steer Cylinder Assembly, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200137093)	E
	1684263	Ref	Steer Cylinder Assembly, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200004607)	E
	1684456	Ref	Steer Cylinder Assembly, 2646ES/3246ES USA Built Machines (SN 0200137094 through 0200152825)	A
	1684456	Ref	Steer Cylinder Assembly, 2646ES/3246ES Belgium Built Machines (SN 1200004608 through 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)	
8	7023564	1	Ring, Retaining	
9	2110404	2	Fitting, Straight Adapter	
10		Ref	Tube Assembly Options:	
10	7023563	1	Tube Assembly, 1930ES/2030ES/2630ES	
10	7023567	1	Tube Assembly, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200137093)	
10	7023567	1	Tube Assembly, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200004607)	
10	70000108	1	Tube Assembly, 2646ES/3246ES USA Built Machines (SN 0200137094 through 0200152825)	
10	70000108	1	Tube Assembly, 2646ES/3246ES Belgium Built Machines (SN 1200004608 through 1200008481)	
11		Ref	Rod Options:	
11	7023562	1	Rod, 1930ES/2030ES/2630ES	
11	7023566	1	Rod, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200137093)	
11	7023566	1	Rod, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200004607)	
11	70000110	1	Rod, 2646ES/3246ES USA Built Machines (SN 0200137094 through 0200152825)	
11	70000110	1	Rod, 2646ES/3246ES Belgium Built Machines (SN 1200004608 through 1200008481)	
12	7023561	2	Head	
13	7023560	1	Piston	
14		Ref	Spacer Options:	
14	Not Required	0	Spacer, 1930ES/2030ES/2630ES	
14	7023565	2	Spacer, 2646ES/3246ES	
15	0440259	2	Bushing	
51		Ref	Seal Kit - Cylinder Options (Includes Items 1-6):	
51A	7023559	1	Seal Kit, 1930ES/2030ES/2630ES	
51B	7023559	1	Seal Kit, 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200137093)	
51B	7023559	1	Seal Kit, 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200004607)	
51C	70000107	1	Seal Kit, 2646ES/3246ES USA Built Machines (SN 0200137094 through 0200152825)	
51C	70000107	1	Seal Kit, 2646ES/3246ES Belgium Built Machines (SN 1200004608 through 1200008481)	

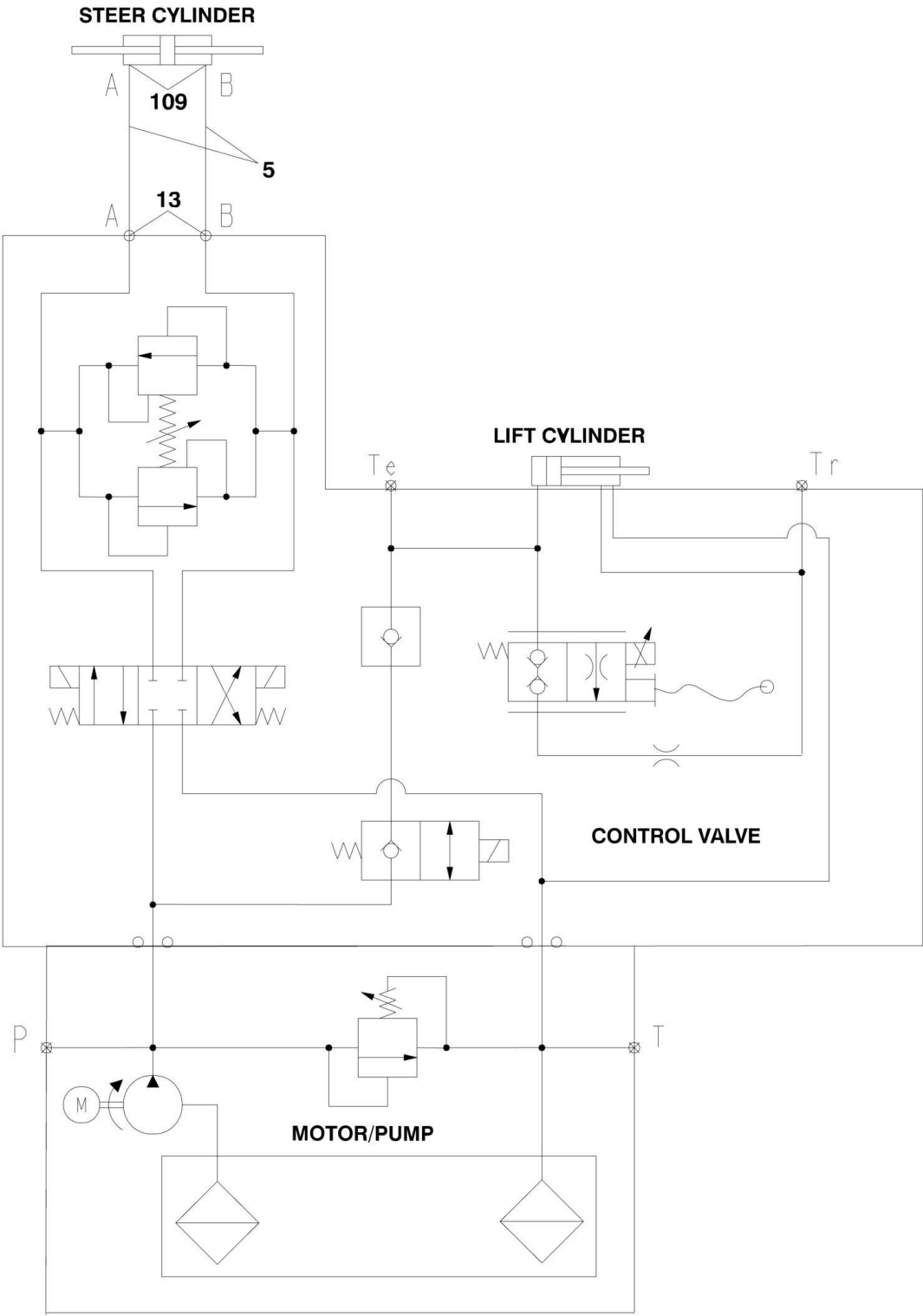
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			1200004608 through 1200008481)	

SECTION 6 - HYDRAULIC

SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM



SECTION 6 - HYDRAULIC

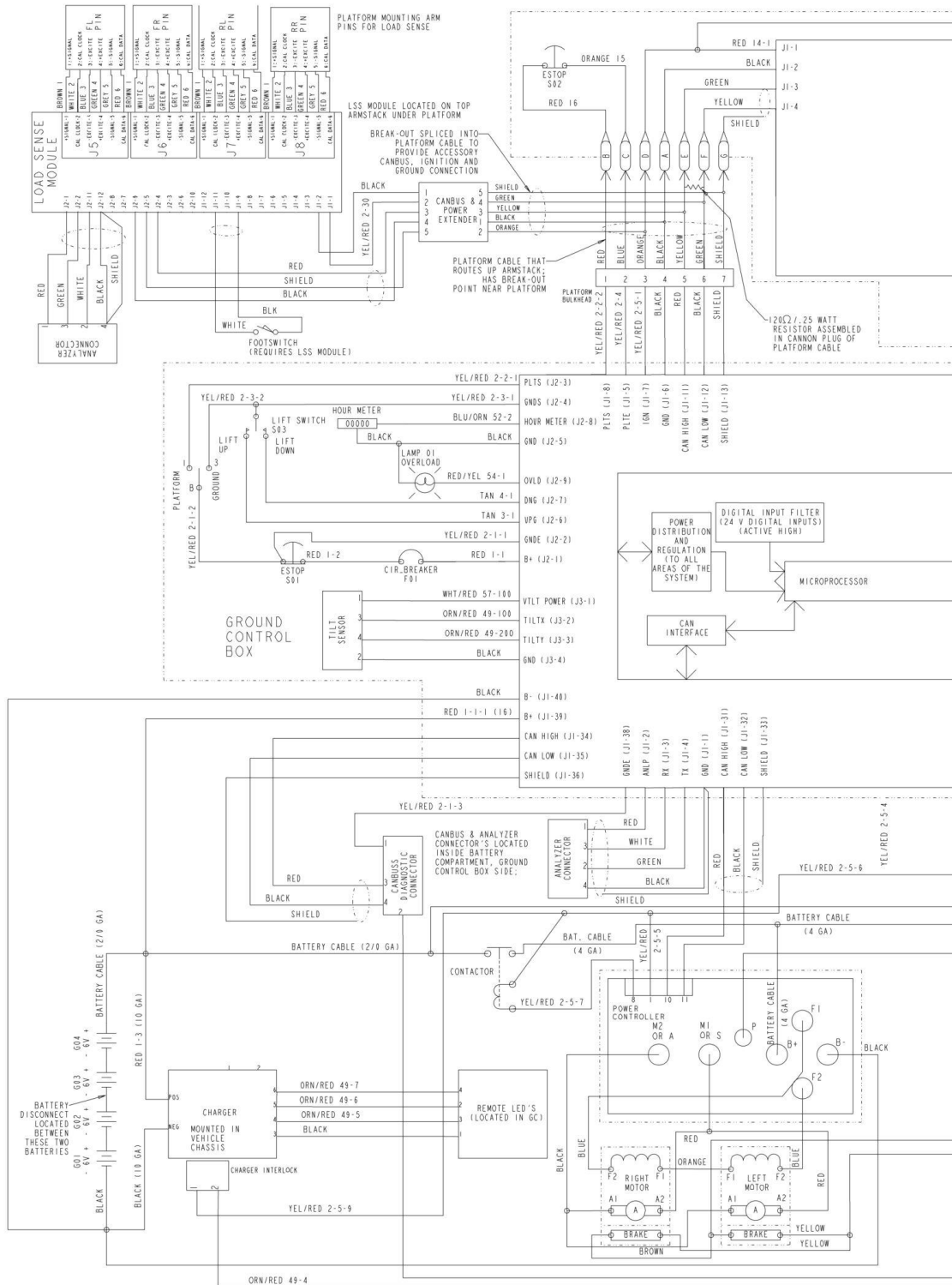
FIGURE 6-1. HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HYDRAULIC COMPONENTS	
	0272371	Ref	Steer Hydraulics (1930ES)	F
	0273227	Ref	Steer Hydraulics (2030ES/2630ES)	C
	0272372	Ref	Steer Hydraulics (2646ES/3246ES USA Built Machines) (SN 0200135154 through 0200137093)	G
	0272372	Ref	Steer Hydraulics (2646ES/3246ES Belgium Built Machines) (SN 1200004293 through 1200004586)	G
	0274546	Ref	Steer Hydraulics (2646ES/3246ES USA Built Machines) (SN 0200137094 through 0200152825)	B
	0274546	Ref	Steer Hydraulics (2646ES/3246ES Belgium Built Machines) (SN 1200004587 through 1200008481)	B
	2792599	Ref	Hydraulic Schematic	C
5		Ref	Hose Options:	
5	2753882	2	Hose 1930ES/2030ES/2630ES	
5	2753883	2	Hose Options 2646ES/3246ES	
13	2110404	2	Fitting, Straight	
		Ref	STEER CYLINDER ASSEMBLY	
	1684237	Ref	Steer Cylinder Assembly 1930ES/2030ES/2630ES	D
	1684263	Ref	Steer Cylinder Assembly 2646ES/3246ES USA Built Machines (SN 0200135154 through 0200137093)	E
	1684263	Ref	Steer Cylinder Assembly 2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200004607)	E
	1684456	Ref	Steer Cylinder Assembly 2646ES/3246ES USA Built Machines (SN 0200137094 through 0200152825)	A
	1684456	Ref	Steer Cylinder Assembly 2646ES/3246ES Belgium Built Machines (SN 1200004608 through 1200008481)	A
109	2110404	2	Fitting, Straight Adapter	

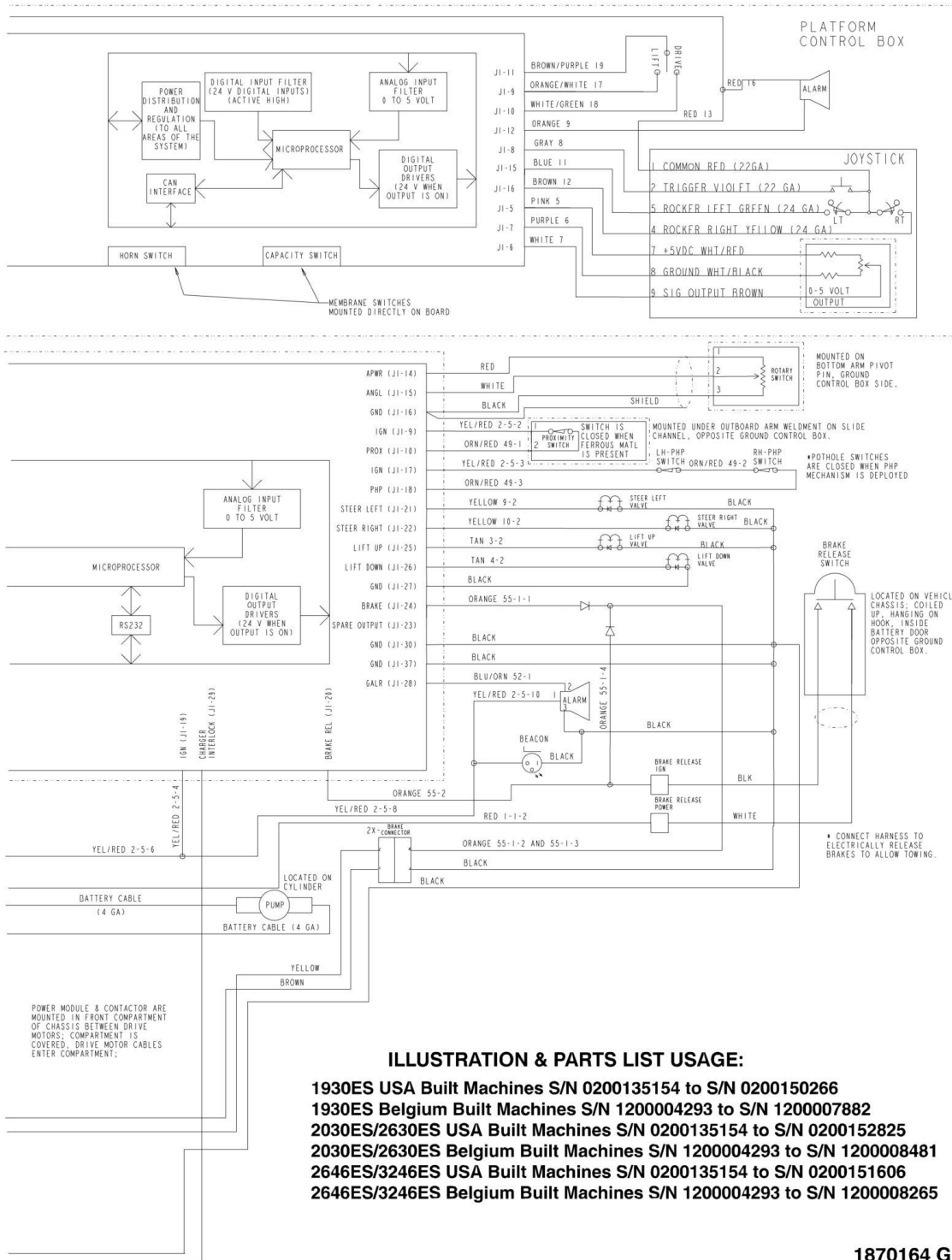
SECTION 7 - ELECTRICAL

SECTION 7 - ELECTRICAL

FIGURE 7-1. ELECTRICAL SCHEMATIC



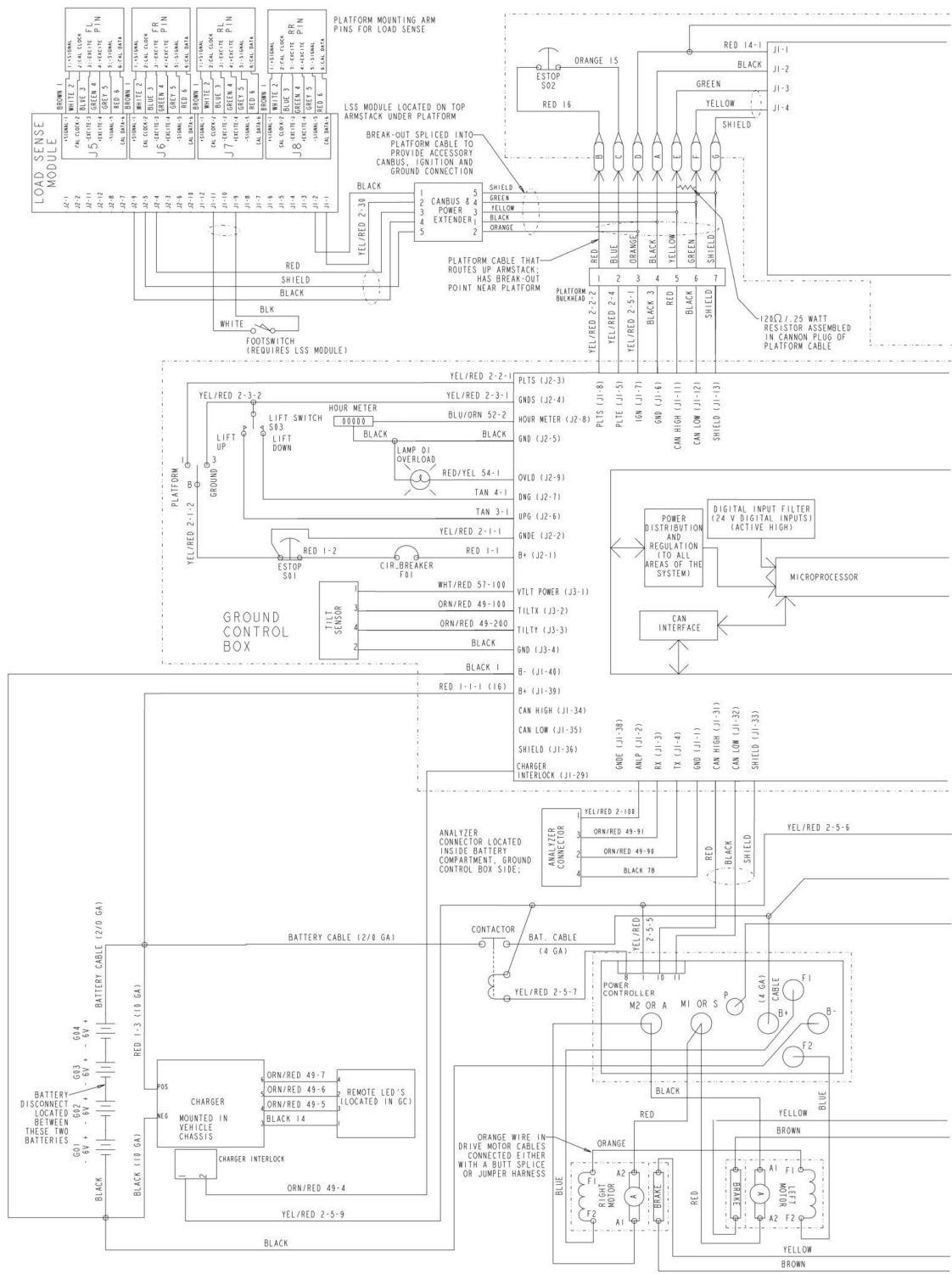
SECTION 7 - ELECTRICAL



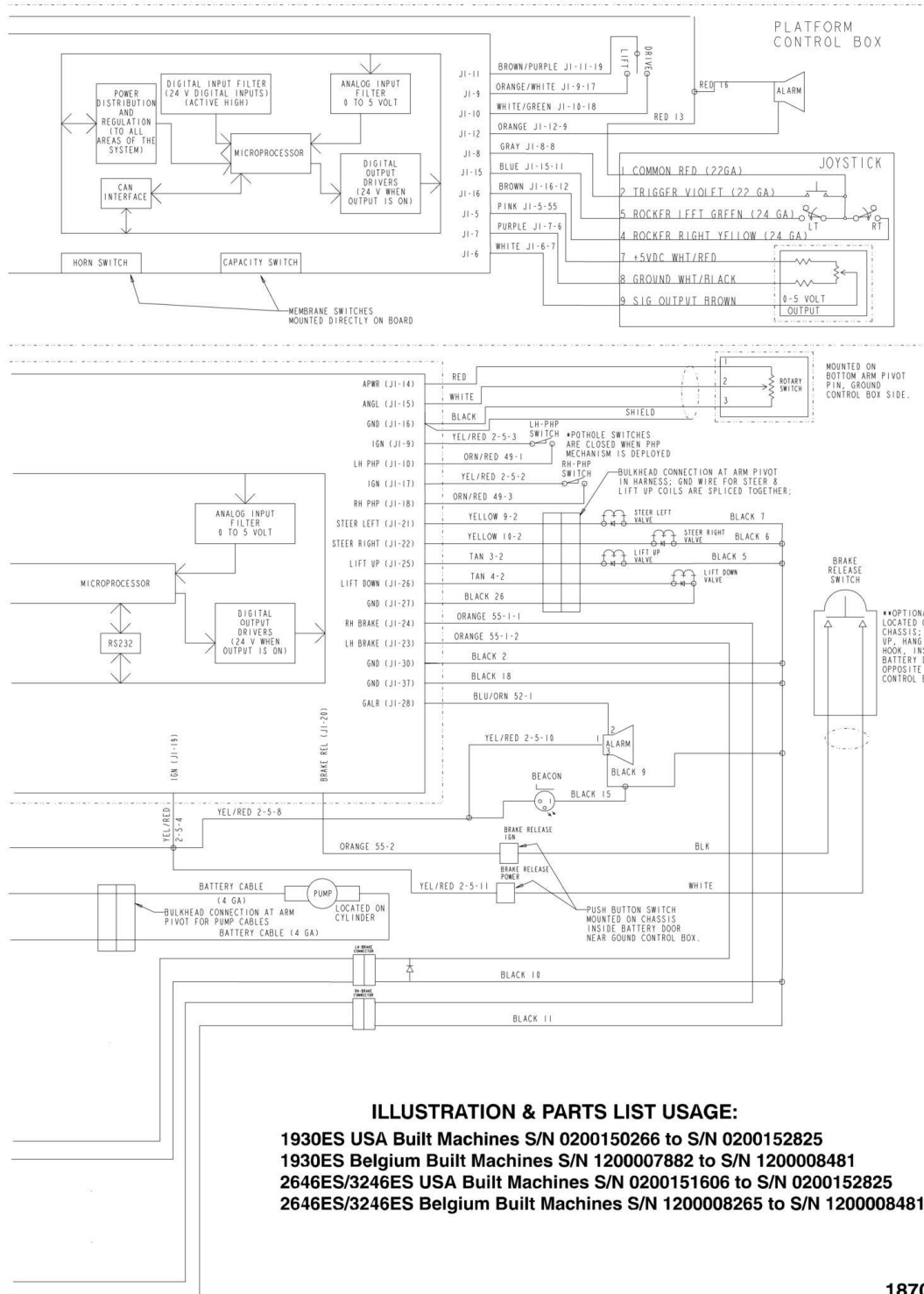
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SECTION 7 - ELECTRICAL

FIGURE 7-2. ELECTRICAL SCHEMATIC



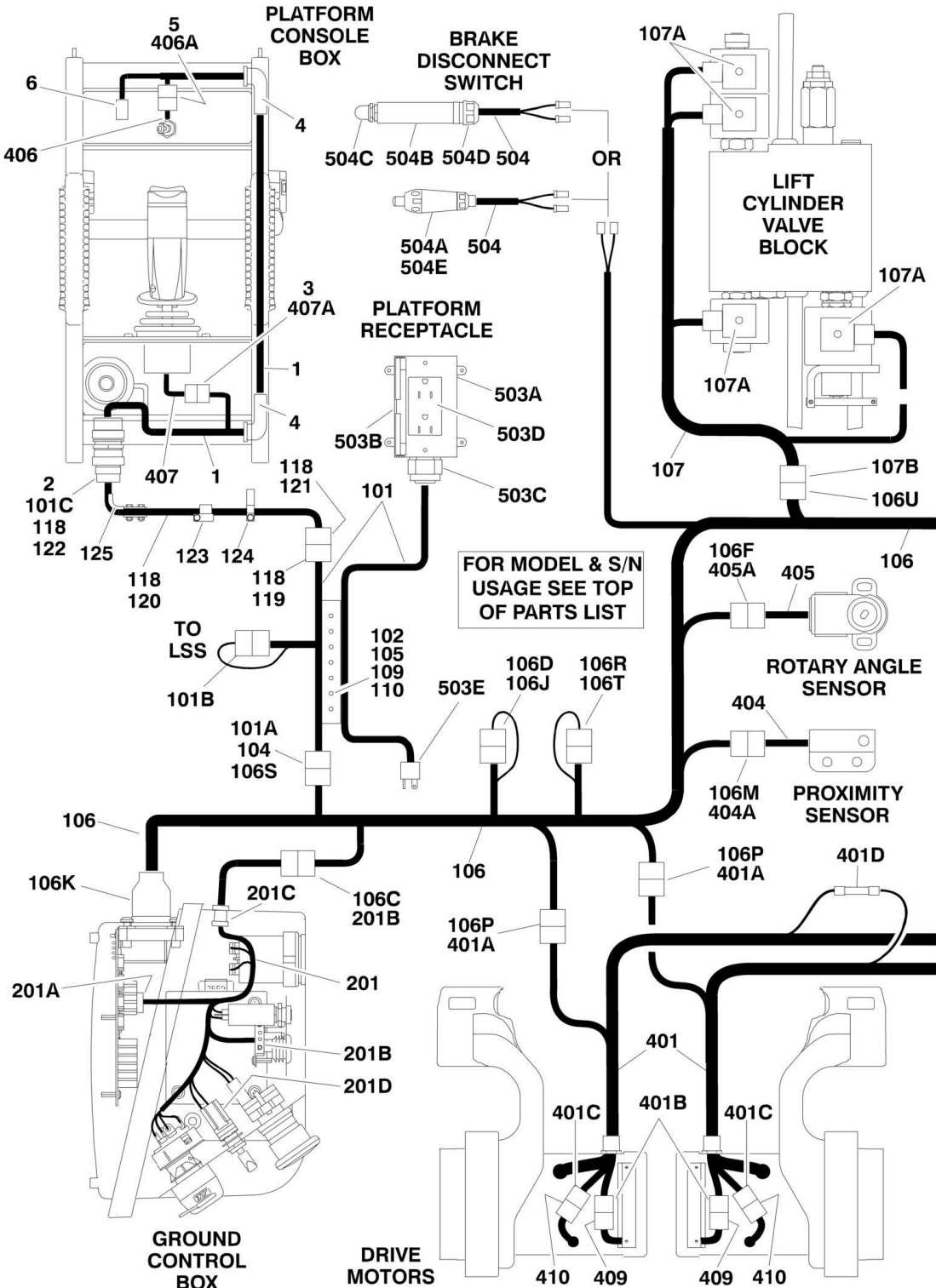
SECTION 7 - ELECTRICAL



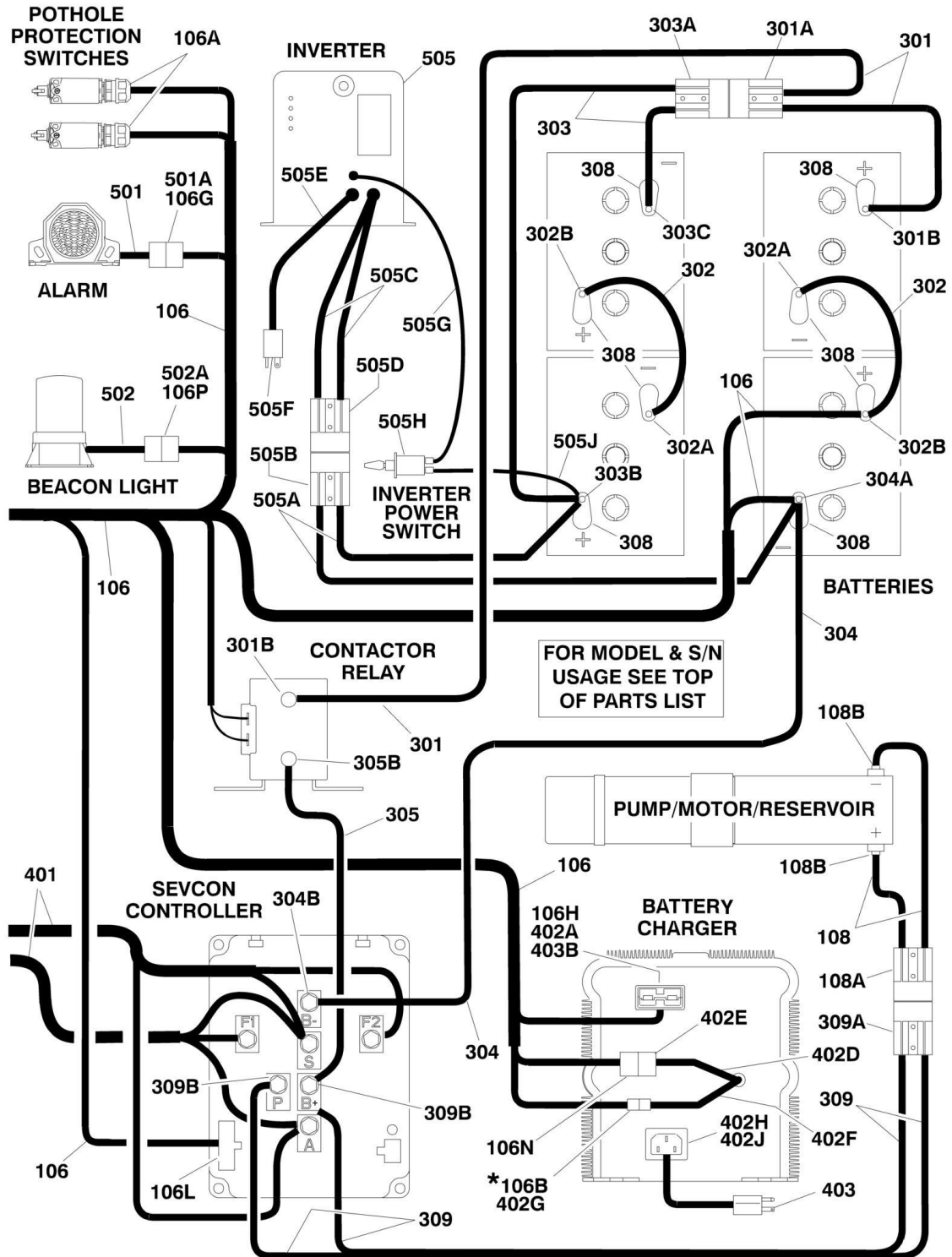
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SECTION 7 - ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (1930ES SN 0200135154 through 0200150266, SN 1200004293 through 1200007882; 2030ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2630ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2646ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265; 3246ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265)



SECTION 7 - ELECTRICAL



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

SECTION 7 - ELECTRICAL

FIGURE 7-3. ELECTRICAL COMPONENTS INSTALLATION (1930ES SN 0200135154 through 0200150266, SN 1200004293 through 1200007882; 2030ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2630ES SN 0200135154 through 0200152825, SN 1200004293 through 1200008481; 2646ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265; 3246ES SN 0200135154 through 0200151606, SN 1200004293 through 1200008265)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ILLUSTRATION AND PARTS LIST USAGE:	
		Ref	1930ES USA Built Machines (SN 0200135154 through 0200150266)	
		Ref	1930ES Belgium Built Machines (SN 1200004293 through 1200007882)	
		Ref	2030ES/2630ES USA Built Machines (SN 0200135154 through 0200152825)	
		Ref	2030ES/2630ES Belgium Built Machines (SN 1200004293 through 1200008481)	
		Ref	2646ES/3246ES USA Built Machines (SN 0200135154 through 0200151606)	
		Ref	2646ES/3246ES Belgium Built Machines (SN 1200004293 through 1200008265)	
		Ref	CONSOLE BOX COMPONENTS	
1	4922870	1	Platform Box Harness	B
2	4461016	1	Connector - 14 Position	
2	4460464	5	Pin, Male	
2	4460466	9	Plug, Sealing	
2	4460496	1	Lockwasher	
2	4460497	1	Nut, Panel	
3	4460265	1	Plug, Male - 9 Position	
3	4460267	8	Pin, Male	
4	2540042	2	Grommet 90	
5	Not Available	1	Receptacle, Female - 3 Position	
6	4461057	1	Plug, Male - 16 Position	
		Ref	PLATFORM CABLES INSTALLATION	
	0272832	Ref	Platform Cables Installation 1930ES	I
	0272833	Ref	Platform Cables Installation 2030ES	J
	0272834	Ref	Platform Cables Installation 2630ES	J
	0272835	Ref	Platform Cables Installation 2646ES/3246ES	J
101		Ref	Platform to Ground Harness Options:	
101	See Note	1	Platform to Ground Harness 1930ES (Was p/n 1061028)	
101		Ref	ANSI, ANSI Export, Japanese and UL Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094154 and item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094154. See Additional notes above Item 101A.)	
101		Ref	Australian and CE Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094332 and item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094332. See Additional notes above Item 101A.)	
101	See Note	1	Platform to Ground Harness 2030ES (Was p/n 1061029)	
101		Ref	ANSI, ANSI Export, Japanese and UL Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness purchase p/ns 1001094155 and item 118p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094155. See Additional notes above Item 101A.)	
101		Ref	Australian and CE Specs	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094333 and item 118 p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094333. See Additional notes above Item 101A.)	
101	See Note	1	Platform to Ground Harness 2630ES (Was p/n 1061030)	
101		Ref	ANSI, ANSI Export, Japanese and UL Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094156 and item 118 p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094156. See Additional notes above Item 101A.)	
101		Ref	Australian and CE Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094334 and item 118 p/n 1001104467. For Platform to Ground Cable purchase only p/n 1001094334. See Additional notes above Item 101A.)	
101	See Note	1	Platform to Ground Harness 2646ES/3246ES (Was p/n 1061031)	
101		Ref	ANSI, ANSI Export, Japanese and UL Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094157 and item 118 p/n 1001104468. For Platform to Ground Cable purchase only p/n 1001094157. See Additional notes above Item 101A.)	
101		Ref	Australian and CE Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094335 and 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	
101A	4460465	4	Socket, Female	
101A	4460944	3	Socket, Female (Gold)	
101A	4460466	1	Plug, Sealing	
101A	0840058	1	Boot 8 Position	
101B	4460894	1	Plug, Male - 6 Position	
101B	4460899	1	Receptacle, Female - 6 Position	
101B	0840059	1	Boot 6 Position	
101B	4460465	2	Socket, Female	
101B	4460944	9	Socket, Female (Gold)	
101B	4460466	1	Plug, Sealing	
101C	4460754	1	Connector -14 Position	
101C	4460493	1	Cap, Dust	
101C	3730119	1	Resistor	
101C	4460465	4	Socket, Female	
101C	4460944	3	Socket, Female (Gold)	
101C	4460466	5	Plug, Sealing	
102	1380158	AR	Retainer	
103	1320318	AR	Clamp, Hose (1930ES/2646ES/3246ES Only - Not Shown)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	0100048	AR	Grease, Dielectric	
105	4740545	AR	Washer, Spec. Cable	
106		Ref	Chassis Harness Options:	
		Ref	Note: Connection at contactor relay may need changed to match relay currently on machine.	
106	4923380	1	Chassis Harness 1930ES/2030ES/2630ES (was p/n 4923194 & 4923335)	C
106	4923381	1	Chassis Harness 2646ES/3246ES (was p/n 4923195 & 4923336)	B
106		Ref	Wiring Diagram Options:	
106	4933315	1	USA Built Machines (Note: This is the wiring diagram for chassis harness p/n 4923194/4923195) (SN 0200135154 through 0200138062)	D
106	4933315	1	Belgium Built Machines (Note: This is the wiring diagram for chassis harness p/n 4923194/4923195) (SN 1200004293 through 1200004865)	D
106	4933344	1	USA Built Machines (Note: This is the wiring diagram for chassis harness p/n 4923335/4923336) (SN 0200138063 through 0200152825)	C
106	4933344	1	Belgium Built Machines (Note: This is the wiring diagram for chassis harness p/n 4923335/4923336) (SN 1200004866 through 1200008481)	C
106	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)	
106B	4460226	2	Socket, Female	
106C	4460321	1	Plug, Male - 4 Position	
106C	4460227	4	Pin, Male	
106D	4460321	1	Plug, Male - 4 Position	
106D	4460226	1	Socket, Female	
106F	4460539	1	Plug, Male - 3 Position	
106F	4460465	3	Socket, Female	
106G	4460539	1	Plug, Male - 3 Position	
106G	4460465	2	Socket, Female	
106H	4460648	1	Connector, Anderson	
106J	4460761	1	Receptacle, Female - 4 Position	
106J	4460227	4	Pin, Male	
106K	4460814	1	Plug, Male - 40 Position	
106K	4460465	31	Socket, Female	
106K	4460944	9	Socket, Female (Gold)	
106K	0840057	1	Boot	
106L	4460870	1	Plug, Male - 12 Position	
106L	4460877	4	Pin, Male	
106M	4460891	1	Plug, Male - 2 Position	
106M	4460465	2	Socket, Female	
106N	4460894	1	Plug, Male - 6 Position	
106N	4460465	6	Socket, Female	
106N	0840059	1	Boot	
106P	4460897	3	Receptacle, Female - 2 Position	
106P	4460464	6	Pin, Male	
106R	4460931	1	Receptacle, Female - 8 Position	
106R	4460464	4	Pin, Male	
106S	4460931	1	Receptacle, Female - 8 Position	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106S	4460943	7	Pin, Male (Gold)	B
106S	0840058	1	Boot	
106T	4460930	1	Plug, Male - 8 Position	
106T	4460466	1	Seal, Plug	
106U	4460899	1	Connector, Female - 6 Position	
106U	4460464	6	Pin, Male	
107	4923270	1	Lift Cylinder Harness	
107A	4460499	4	DIN Connector	
107B	4460894	1	Plug, Male - 6 Position	
107B	4460465	6	Socket, Female	
107B	0840059	1	Boot	A
108	4923271	1	Power to Pump Motor Harness	
108A	Not Available	1	Connector, Anderson	
108B	0840041	2	Boot, Terminal (Red)	
109	0760610	2	Screw M6 x 20mm	
110	3290607	2	Nut M6	
118		Ref	Platform to Platform Control Box Harness Repair Kit with Coiled Cable (Includes Items 119-125)	
118	1001104466	1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable 1930ES (was p/n 2915251)	A
118	1001104467	1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable 2030ES/2630ES (was p/n 2915252)	A
118	1001104468	1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable 2646ES/3246ES (was p/n 2915253)	A
119	4460930	1	Plug, Male - 8 Position	A
119	4460465	4	Socket, Female	
119	4460944	3	Socket, Female (Gold)	
119	4460466	1	Plug, Sealing	
119	0840061	1	Boot, 8 Position Plug	
119	2820028	AR	Heat Shrink	
120		Ref	Coiled Cable Harness Assembly Options:	
120	1001096705	1	Coiled Cable Harness Assembly Options 1930ES (was p/n 2915251)	
120	1001096706	1	Coiled Cable Harness Assembly Options 2030ES/2630ES (was p/n 2915252)	
120	1001096707	1	Coiled Cable Harness Assembly Options 2646ES/3246ES (was p/n 2915253)	
121	4460931	1	Receptacle, Female - 8 Position	AR
121	4460464	4	Pin, Male	
121	4460943	3	Pin, Male (Gold)	
121	4460466	1	Plug, Sealing	
121	0840058	1	Boot, 8 Position Receptacle	
121	2820026	AR	Insulation, Clear Tubing	
121	2820028	AR	Heat Shrink	
122	4460754	1	Plug, Male -14 Position	
122	4460465	4	Socket, Female	
122	4460944	3	Socket, Female	
122	4460466	4	Plug, Sealing	AR
122	3730119	1	Resistor	
122	4460493	1	Cap, Dust	
122	2820026	AR	Insulation, Clear Tubing	
123	1001094175	AR	Clamp, Post	
123	4010617	AR	Screw M6 x 45mm	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123	3290606	AR	Nut, Acorn M6	
124	1001094180	4	Clamp, Rail	
124	0760606	4	Screw M6 x 12mm	
124	3290606	4	Nut, Acorn M6	
125	1001104465	AR	Hook, Corner	
125	4010617	AR	Screw M6 x 45mm	
125	3290606	AR	Nut, Acorn M6	
		Ref	GROUND CONTROL BOX COMPONENTS	
201	4922865	1	Control Box Harness	
201A	4460265	1	Plug, Male - 9 Position	
201A	4460268	9	Socket, Female	E
201B	4460761	2	Receptacle, Female - 4 Position	
201B	4460267	8	Pin, Male	
201C	Not Available	1	Grommet (Molded in Part of Harness)	
201D	4460418	1	Receptacle, Female - 3 Position	
201D	4460419	3	Terminal	
		Ref	BATTERY CABLE KITS	
	2902239	Ref	Battery Cable Kits 1930ES	
	2902248	Ref	Battery Cable Kits 2030ES/2630ES/2646ES/3246ES	
301		Ref	Cable, Battery (Contactor and LH Battery to Disconnect)	
301	1060997	1	Cable, Battery 1930ES	D
301	1061008	1	Cable, Battery 2030ES/2630ES/2646ES/3246ES	D
301A	4460618	1	Connector, Anderson	D
301A	Not Available	1	Handle, Connector	
301B	Not Available	2	Boot, Terminal (Red)	
302	1060998	2	Cable, Battery (Battery Positive to Battery Negative)	
302A	Not Available	2	Boot, Terminal (Black) (1 Per Cable Assembly)	
302B	0840041	2	Boot, Terminal (Red) (1 Per Cable Assembly)	
303		Ref	Cable, Battery (RH Batteries to Disconnect)	
303	1060999	1	Cable, Battery 1930ES	
303	1061010	1	Cable, Battery 2030ES/2630ES/2646ES/3246ES	
303A	4460618	1	Connector, Anderson	
303B	Not Available	1	Boot, Terminal (Red)	C
303C	Not Available	1	Boot, Terminal (Black)	
304		Ref	Cable, Battery (LH Battery to Connector B-)	
304	1061000	1	Cable, Battery 1930ES	
304	1061009	1	Cable, Battery 2030ES/2630ES/2646ES/3246ES	
304A	Not Available	1	Boot, Terminal (Black)	
304B	Not Available	1	Boot, Terminal (Red)	
305	1061001	1	Cable, Battery (Contactor to Controller B+)	
305A	Not Available	1	Boot, Terminal (Black)	
305B	0840041	1	Boot, Terminal (Red)	
308	0840060	8	Boot, Terminal (Gray) (Covers only the Battery Terminal Base)	A
309		Ref	Cable, Battery (Power to Pump Motor)	
309	4923272	1	Cable, Battery 1930ES	
309	4923275	1	Cable, Battery 2030ES/2630ES/2646ES/3246ES	
309A	Not Available	1	Connector, Anderson	
309B	0840041	1	Boot, Terminal (Red)	
		Ref	STANDARD HARNESSES	
401	See Note	2	Drive Motor/Brake Harness (Was p/ns 7024770 & 7024775)	
		Ref	Note: Refer to Figure 1-3 to identify cable.	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401A	4460891	2	Plug, Male - 2 Position (1 Per Harness)	
401A	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
401B	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
401C	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D	Not Available	1	Connector, Butt (Purchase Locally)	
		Ref	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		Ref	DC Harness/Cord Set Options:	
402A	7022953	Ref	MAC Charger	
402A	Not Available		Delta-Q Charger	
402B	4460648	1	Plug, Anderson	
402C		Ref	PC Board Internal Harness Options (Not Shown):	
402C	7022954	1	MAC Charger	
402C	Not Available		Delta-Q Charger	
402D		Ref	Harness with Connector Options:	
402D	7022955	1	MAC Charger	
402D	Not Available		Delta-Q Charger	
402E	4460899	1	Connector, Female - 6 Position	
402E	4460464	6	Pin, Male	
402F		Ref	Harness with Connector Options: (Note: Connection to this plug used only when battery interlock options are required)	
402F	7022956	1	MAC Charger	
402F	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)	
402G	4460227	2	Pin, Male	
402H	Not Available	1	AC Harness/Cord Set	
402J		Ref	Connector, Female Options:	
402J	7018583	1	MAC Charger	
402J	Not Available		Delta-Q Charger	
403		Ref	Cable, AC Power to Charger Options:	
403	1060688	1	Factory Supplied Plug	
403	1060689	1	Locally Supplied Plug	
404	4360502	1	Proximity Sensor and Harness (Separate Harness Not Available)	
404A	4460897	1	Receptacle, Female - 2 Position	
404A	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	
405A	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	
407A	4460226	8	Socket, Female	
409	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete Brake)	
409	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
409	Not Available	4	Pin, Male (2 Per Harness)	

SECTION 7 - ELECTRICAL

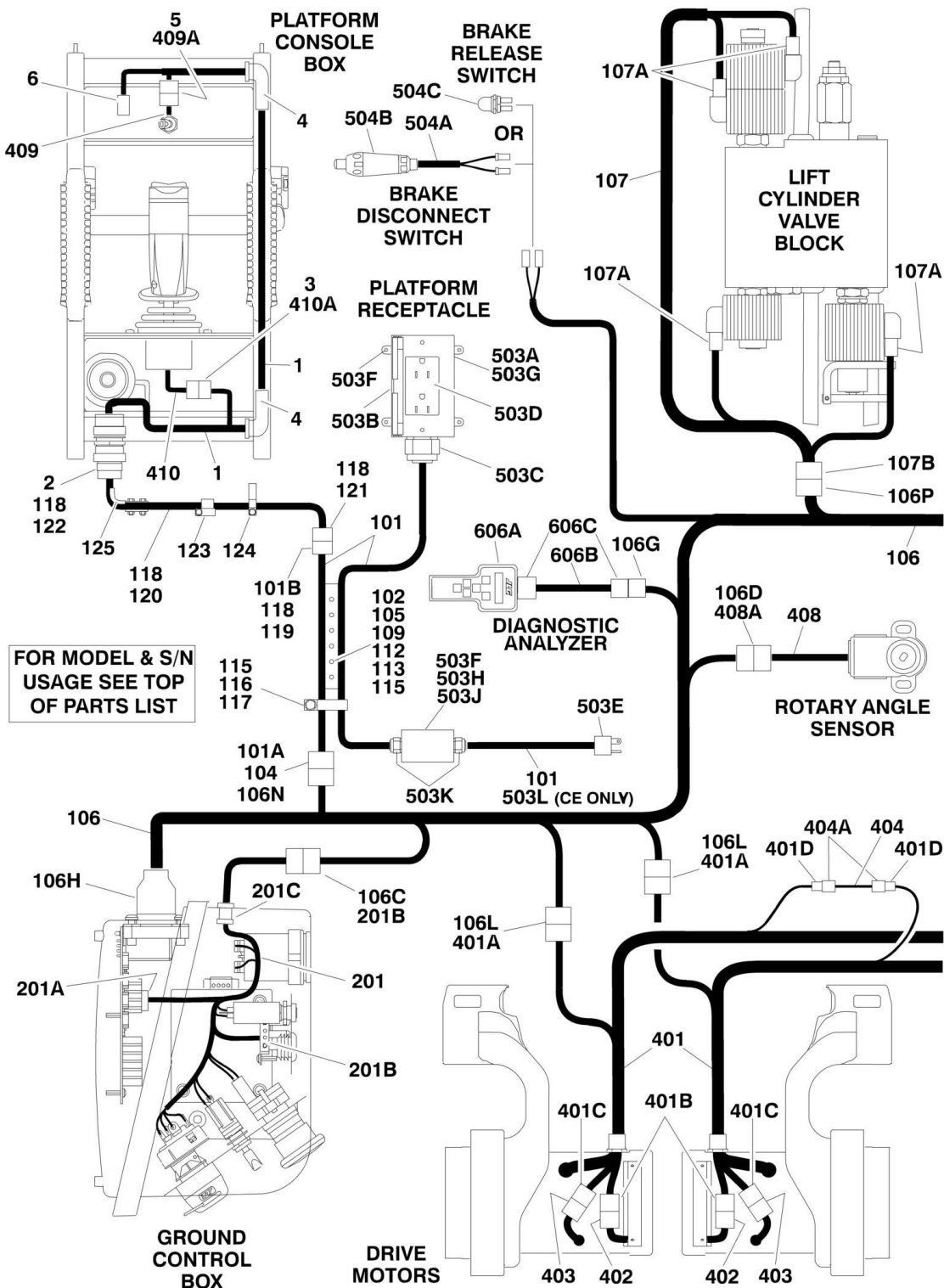
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
410	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	H E
410	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
410	Not Available	4	Pin, Male (2 Per Harness)	
		Ref	OPTIONAL HARNESSES	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
501A	4460464	3	Pin, Male	
502	2920161	1	Beacon Light and Harness (Separate Harness Not Available)	
502A	4460891	1	Plug, Male - 2 Position (1 Per Harness)	
502A	4460465	2	Socket, Female (2 Per Harness)	
503		Ref	Platform Electrical Outlet Components	
503	0272839	Ref	ANSI Spec	
503	0272843	Ref	ANSI Export/Australian/CE Specs	
503		Ref	Decal - AC Power	
503	1703464	1	ANSI Spec	
503	3252507	1	ANSI Export/Australian/CE Specs	
503A		Ref	Box, Switch Options:	
503A	0861731	1	Poly Box	
503A	Not Available	1	Switch Box (ANSI Export/Australian/CE Spec Machines) (Purchase Locally)	
503A		Ref	Hardware Options:	
503A	4010408	4	Screw M4 x 16mm	
503A	3290405	4	Locknut M4	
503B		Ref	Cover Options:	
503B	1671207	1	ANSI Spec	
503B	Not Available	1	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503C		Ref	Connector, Strain Relief Options:	E
503C	4460662	1	ANSI Spec	
503C	Not Available	1	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503D		Ref	Receptacle, Electrical Options:	
503D	4460346	1	ANSI Spec	
503D	Not Available	1	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503E		Ref	Plug, Male Options:	
503E	4460138	1	ANSI Spec	
503E	Not Available	1	ANSI Export/Australian/CE Spec Machines (Purchase Locally)	
503G	4460315	1	Terminal, Spade (Not Shown)	
503G	2902431	1	Receptacle Box Kit (Includes Poly Box, Switch Cover, Receptacle and Strain Relief Connector)	
504	4922944	1	Brake Disconnect Harness	
504	1060680	15 ft/2.7m	Cable, Electrical 18/2	
504		Ref	USA Built Machines	
504A	4360613	1	Switch, Limit	
504		Ref	Belgium Built Machines (SN 1200004293 through 1200004637)	
504B	2560181	1	Handle	
504C	4360387	1	Switch, Push Button	
504D	4460633	1	Connector, Strain Relief	
504		Ref	Belgium Built Machines (SN 1200004638 through 1200008481)	
504E	4360613	1	Switch, Limit	
504E	4240003	1	Strap, Cinch (Not Shown)	
505		Ref	Inverter Electrical Components (See SPECIAL OPTIONS)	

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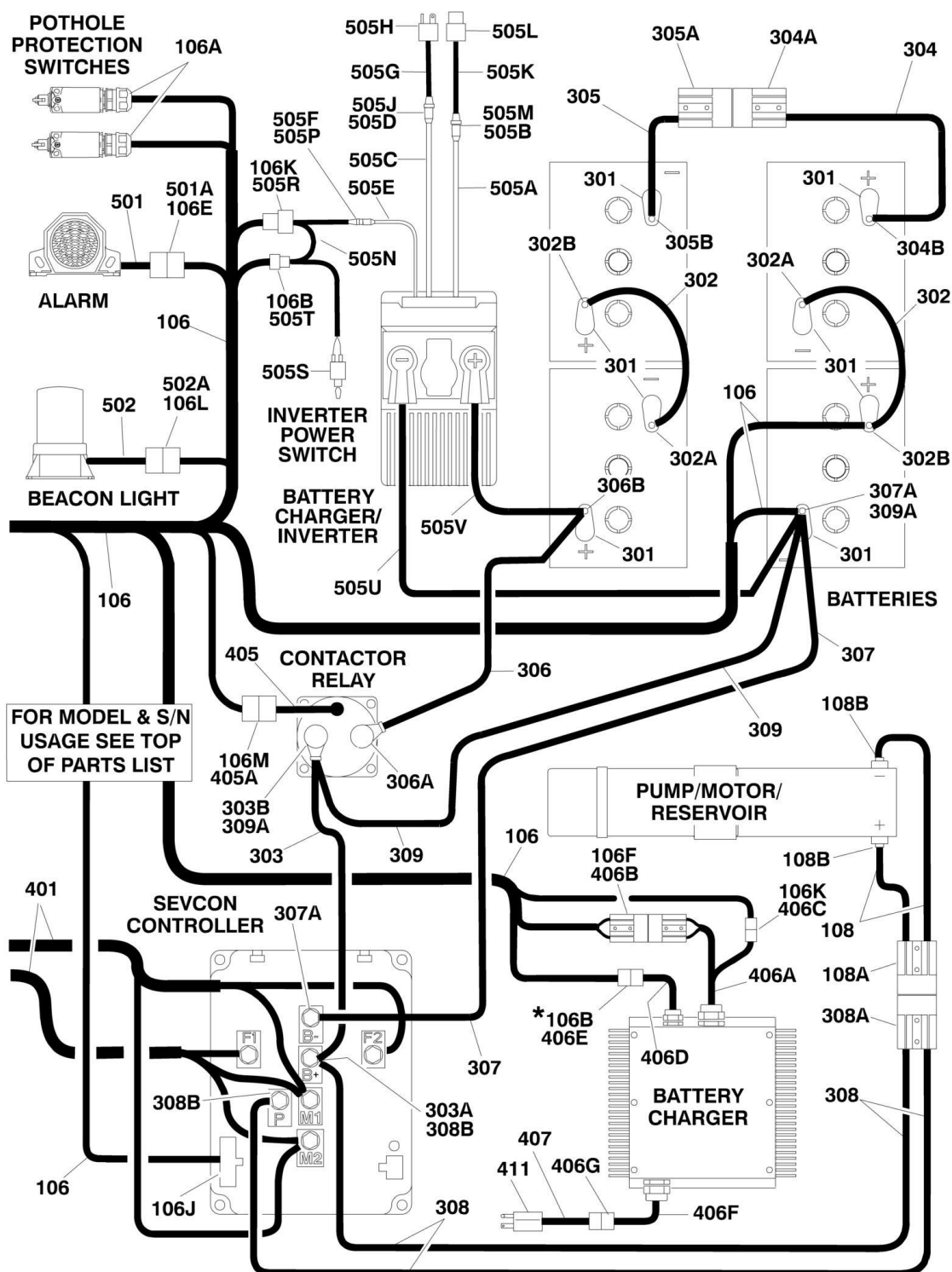
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			SECTION for Other Components)	
505	0272876	Ref	Inverter Electrical Components 1930ES	B
505	0273070	Ref	Inverter Electrical Components 2030ES/2630ES	B
505	0273071	Ref	Inverter Electrical Components 2646ES/3246ES	B
505A	1061037	1	Cable, Power - DC (8Ga)	B
505B	4460648	1	Connector, Anderson (50Amp)	
505C	Not Available	3 ft/1m	Cable, Power - DC (8Ga)	
505D	4460648	1	Connector, Anderson (50Amp)	
505E	Not Available	5 ft/1.5m	Cable Electrical - 14/3	
505F	4460205	1	Plug, Male 110GFI	
505G	Not Available	5 ft/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	AR	Extractor, Pin #16 Gauge	
	4460510	AR	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 7-4. ELECTRICAL COMPONENTS INSTALLATION (1930ES SN 0200150266 through 0200152825, SN 1200007882 through 1200008481; 2646ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481; 3246ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)



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

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FIGURE 7-4. ELECTRICAL COMPONENTS INSTALLATION (1930ES SN 0200150266 through 0200152825, SN 1200007882 through 1200008481; 2646ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481; 3246ES SN 0200151606 through 0200152825, SN 1200008265 through 1200008481)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ILLUSTRATION AND PARTS LIST USAGE:	
		Ref	1930ES USA Built Machines (SN 0200150266 through 0200152825)	
		Ref	1930ES Belgium Built Machines (SN 1200007882 through 1200008481)	
		Ref	2646ES/3246ES USA Built Machines (SN 0200151606 through 0200152825)	
		Ref	2646ES/3246ES Belgium Built Machines (SN 1200008265 through 1200008481)	
		Ref	CONSOLE BOX COMPONENTS	
1	4922870	1	Platform Box Harness	B
2	4461016	1	Connector - 14 Position	
2	4460464	5	Pin, Male	
2	4460466	9	Plug, Sealing	
2	4460496	1	Lockwasher	
2	4460497	1	Nut, Panel	
3	4460265	1	Plug, Male - 9 Position	
3	4460267	8	Pin, Male	
4	2540042	2	Grommet 90	
5	Not Available	1	Receptacle, Female - 3 Position	
6	4461057	1	Plug, Male - 16 Position	
		Ref	PLATFORM CABLES INSTALLATION	
	0274972	Ref	Platform Cables Installation 1930ES (ANSI, ANSI Export, Japanese Spec and UL Specs)	H
	0275541	Ref	Platform Cables Installation 1930ES (Australian and CE Specs)	F
	0274975	Ref	Platform Cables Installation 2646ES/3246ES (ANSI, ANSI Export, Japanese Spec and UL)	H
	0275544	Ref	Platform Cables Installation 2646ES/3246ES (Australian and CE Specs)	F
101		Ref	Platform to Ground Harness Options:	
101	See Note	1	Platform to Ground Harness 1930ES (Was p/n 4933218 & 4923587)	
101		Ref	ANSI, ANSI Export, Japanese and UL Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094154 and item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094154. See Additional notes above Item 101A.)	
101		Ref	Australian and CE Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094332 and item 118 p/n 1001104466. For Platform to Ground Cable purchase only p/n 1001094332. See Additional notes above Item 101A.)	
101	See Note	1	Platform to Ground Harness 2646ES/3246ES (Was p/n 4923221 & 4923590)	
101		Ref	ANSI, ANSI Export, Japanese and UL Specs	
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094157 and item 118 p/n 1001104468. For Platform to Ground Cable purchase only p/n 1001094157. See Additional notes above Item 101A.)	
101		Ref	Australian and CE Specs	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	(Note: For complete Ground to Platform Control Box Harness, purchase p/ns 1001094335 and 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	
		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	
101A	4460465	4	Socket, Female	
101A	4460944	3	Socket, Female (Gold)	
101A	4460466	1	Plug, Sealing	
101A	0840061	1	Boot 8 Position Plug	
101A	2820026	AR	Insulation, Clear Tubing	
101A	2820028	AR	Heat Shrink	
101B	4460930	1	Plug, Male - 8 Position	
101B	4460465	4	Socket, Female	
101B	4460944	3	Socket, Female (Gold)	
101B	4460466	1	Plug, Sealing	
101B	0840061	1	Boot 8 Position Plug	
101B	2820026	AR	Insulation, Clear Tubing	
101B	2820028	AR	Heat Shrink	
102	1380158	AR	Retainer	
103	1320318	AR	Clamp, Hose (Not Shown)	
104	0100048	AR	Grease, Dielectric	
105	4740545	AR	Washer, Special Cable	
106		Ref	Chassis Harness Options:	
106	4923449	1	Chassis Harness 1930ES	E
106	4923450	1	Chassis Harness 2646ES/3246ES	D
106	4933351		Wiring Diagram - Chassis	C
106	3990013	2	Diode 1 Amp/400V (Not Shown)	
106A	1001109345	2	Limit Switch Kit (was p/n 4360633)	
106B	4460320	1	Plug, Male - 2 Position (Note: Connection to this plug used only when footswitch or battery interlock options are required)	
106B	4460226	2	Socket, Female	
106C	4460321	1	Plug, Male - 4 Position	
106C	4460227	4	Pin, Male	
106D	4460539	1	Plug, Male - 3 Position	
106D	4460465	3	Socket, Female	
106E	4460539	1	Plug, Male - 3 Position	
106E	4460465	2	Socket, Female	
106F	4460648	1	Connector, Anderson	
106G	4460761	1	Receptacle, Female - 4 Position	
106G	4460227	4	Pin, Male	
106H	4460814	1	Plug, Male - 40 Position	
106H	4460465	31	Socket, Female	
106H	4460944	6	Socket, Female (Gold)	
106H	0840057	1	Boot	
106J	4460870	1	Plug, Male - 12 Position	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106J	4460877	4	Pin, Male	C
106K	4460894	1	Plug, Male - 6 Position	
106K	4460465	4	Socket, Female	
106K	0840059	1	Boot	
106L	4460897	3	Receptacle, Female - 2 Position	
106L	4460464	6	Pin, Male	
106M	4460897	1	Receptacle, Female - 2 Position	
106M	4460465	2	Socket, Female	
106N	4460931	1	Receptacle, Female - 8 Position	
106N	4460464	4	Pin, Male	
106N	4460943	3	Pin, Male (Gold)	
106N	0840058	1	Boot	
106P	4460899	1	Connector, Female - 6 Position	
106P	4460464	6	Pin, Male	
107	4923350	1	Lift Cylinder Harness	
107A	4460891	4	Plug, Male - 2 Position	
107A	4460465	8	Socket, Female	
107B	4460894	1	Plug, Male - 6 Position	
107B	4460465	6	Socket, Female	
107B	0840059	1	Boot	
108	4923271	1	Power to Pump Motor Harness	C
108A		Ref	Connector, Anderson Options:	
108A	Not Available		Red	
108A	Not Available		Gray	
108B	0840041	2	Boot, Terminal (Red)	
109	0760615	AR	Screw M6 x 35mm	
110	0903339	1	Bracket, Battery Connector (Not Shown) (1930ES Only)	
111		Ref	Battery Cable Kit Options (See Item 301- 309 for Breakdown)	
111	2902476		Battery Cable Kit 1930ES	
111	2902507		Battery Cable Kit 2646ES/3246ES	
112	3290607	4	Nut M6	
113	4811700	2	Flatwasher M6	
115		Ref	Locknut Options:	
115	3291005	AR	Locknut M10 (1930ES)	
115	3290605	AR	Locknut M6 (2646ES/3246ES)	
116		Ref	Screw Options:	
116	3900351	AR	Screw, Button Head M10 x 30mm (1930ES)	
116	4031713	AR	Capscrew, Socket Head M6 x 45mm (2646ES/3246ES)	
117		Ref	Flatwasher Options:	
117	4812000	AR	Flatwasher M10 (1930ES)	
117	4811700	AR	Flatwasher M6 (2646ES/3246ES)	
118		Ref	Platform to Platform Control Box Harness Repair Kit with Coiled Cable (Includes Items 119-125)	A
118	1001104466	1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable 1930ES (was p/n 2915251)	
118	1001104467	1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable 2030ES/2630ES (was p/n 2915252)	
118	1001104468	1	Platform to Platform Control Box Harness Repair Kit with Coiled Cable 2646ES/3246ES (was p/n 2915253)	
119	4460930	1	Plug, Male - 8 Position	
119	4460465	4	Socket, Female	
119	4460944	3	Socket, Female (Gold)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
119	4460466	1	Plug, Sealing	A
119	0840061	1	Boot, 8 Position Plug	
119	2820028	AR	Heat Shrink	
120		Ref	Coiled Cable Harness Assembly Options:	
120	1001096705	1	Coiled Cable Harness Assembly Options 1930ES (was p/n 2915251)	
120	1001096706	1	Coiled Cable Harness Assembly Options 2030ES/2630ES (was p/n 2915252)	
120	1001096707	1	Coiled Cable Harness Assembly Options 2646ES/3246ES (was p/n 2915253)	
121	4460931	1	Receptacle, Female - 8 Position	A
121	4460464	4	Pin, Male	
121	4460943	3	Pin, Male (Gold)	
121	4460466	1	Plug, Sealing	
121	0840058	1	Boot, 8 Position Receptacle	
121	2820026	AR	Insulation, Clear Tubing	
121	2820028	AR	Heat Shrink	
122	4460754	1	Plug, Male -14 Position	
122	4460465	4	Socket, Female	
122	4460944	3	Socket, Female	
122	4460466	4	Plug, Sealing	
122	3730119	1	Resistor	
122	4460493	1	Cap, Dust	
122	2820026	AR	Insulation, Clear Tubing	
123	1001094175	AR	Clamp, Post	
123	4010617	AR	Screw M6 x 45mm	
123	3290606	AR	Nut, Acorn M6	
124	1001094180	4	Clamp, Rail	
124	0760606	4	Screw M6 x 12mm	
124	3290606	4	Nut, Acorn M6	
125	1001104465	AR	Hook, Corner	
125	4010617	AR	Screw M6 x 45mm	
125	3290606	AR	Nut, Acorn M6	
		Ref	GROUND CONTROL BOX COMPONENTS	E
201	4922865	1	Control Box Harness	
201A	4460265	1	Plug, Male - 9 Position	
201A	4460268	9	Socket, Female	
201B	4460761	2	Receptacle, Female - 4 Position	
201B	4460267	8	Pin, Male	
201C	Not Available	1	Grommet (Molded in Part of Harness)	
201D	4460418	1	Receptacle, Female - 3 Position	
201D	4460419	3	Terminal	
		Ref	BATTERY CABLE KITS	
	2902476	Ref	Battery Cable Kits 1930ES	B
	2902507	Ref	Battery Cable Kits 2646ES/3246ES	E
301	0840060	8	Boot, Terminal (Gray) (Covers only the Battery Terminal Base)	E
302	1060998	2	Cable, Battery (Battery Positive to Battery Negative)	
302A	Not Available	2	Boot, Terminal (Black) (1 Per Cable Assembly)	
302B	Not Available	2	Boot, Terminal (Red) (1 Per Cable Assembly)	D
303	1061001	1	Cable, Battery (Contactor to Controller B+)	
303A	Not Available	1	Boot, Terminal (Black)	
303B	Not Available	1	Boot, Terminal (Red)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
304		Ref	Cable, Battery (LH Battery to Disconnect)	
304	4923365	1	Cable, Battery 1930ES	A
304	4923401	1	Cable, Battery 2646ES/3246ES	A
304A		Ref	Connector, Anderson Options:	
304A	Not Available		Connector, Anderson 1930ES Single Pole (Purchase p/n 4923365)	
304A	4460618	1	Connector, Anderson 2646ES/3246ES Two Pole (Red)	
304A	2560205	1	Handle, Connector (All Models Except 1930ES)	
304B	Not Available	1	Boot, Terminal (Red)	
305		Ref	Cable, Battery (RH Batteries to Disconnect)	
305	4923366	1	Cable, Battery 1930ES	A
305	4923402	1	Cable, Battery 2646ES/3246ES	A
305A		Ref	Connector, Anderson Options:	
305A	Not Available		Connector, Anderson Options 1930ES Single Pole (Purchase p/n 4923366)	
305A	4460618	1	Connector, Anderson Options 2646ES/3246ES Two Pole (Red)	
305B	Not Available	1	Boot, Terminal (Black)	
306		Ref	Cable, Battery (RH Battery to Contactor)	
306	4923367	1	Cable, Battery 1930ES	A
306	4923406	1	Cable, Battery 2646ES/3246ES	A
306A	Not Available	1	Boot, Terminal (Black)	
306B	Not Available	1	Boot, Terminal (Red)	
307		Ref	Cable, Battery (LH Battery to Connector B-)	
307	Not Required	0	Cable, Battery 1930ES	
307	4923409	1	Cable, Battery 2646ES/3246ES	A
307A	Not Available	1	Boot, Terminal (Black) (2646ES/3246ES)	
308		Ref	Cable, Battery (Power to Pump Motor)	
308	4923272	2	Cable, Battery 1930ES	C
308	4923410	2	Cable, Battery 2646ES/3246ES	D
308A		Ref	Connector, Anderson Options:	
308A	Not Available		Red	
308A	Not Available		Gray	
308B	0840041	1	Boot, Terminal (Red)	
309		Ref	Cable, Battery (LH Battery to Contactor)	
309	4923374	1	Cable, Battery 1930ES	A
309	Not Required	0	Cable, Battery 2646ES/3246ES	
309A	Not Available	2	Boot, Terminal (Red) (1930ES)	
		Ref	STANDARD HARNESSES	
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)	
401A	4460465	4	Socket, Female (2 Per Harness)	
401B	70001442	2	Plug, Male - 2 Position (1 Per Harness) (To Brake)	
401B	Not Available	4	Socket, Female (2 Per Harness) (To Brake)	
401C	70001443	2	Plug, Male - 2 Position (1 Per Harness) (To Motor)	
401C	70001444	4	Socket, Female (2 Per Harness) (To Motor)	
401D		Ref	Connector Options:	
401D	Not Available	1	USA Built Machines - Use Butt Connector (Purchase Locally)	
		Ref	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.	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401D	4461261	1	Belgium Built Machines - Use Plug, Male - 1 Position	A
401D	4460509	1	Belgium Built Machines - Use Terminal	
402	Not Available	2	Harness, Brake (Internal Connections - Purchase Complete	
402	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
402	Not Available	4	Pin, Male (2 Per Harness)	
403	Not Available	2	Harness, Motor (Internal Connections - Purchase Complete Motor)	
403	Not Available	2	Receptacle, Female - 2 Position (1 Per Harness)	
403	Not Available	4	Pin, Male (2 Per Harness)	
404	4923602	2	Harness, Field Wire Connection	
404A	4461260	2	Receptacle, Female - 1 Position	
404A	4460508	2	Terminal	
405	3740150	1	Contactor Relay Harness (Includes Relay)	
405A	4460891	1	Plug, Male - 2 Position	
405A	4460465	2	Socket, Female	
406		Ref	Battery Charger Components	
406A	Not Available		DC Harness/Cord Set	
406B	4460648	1	Plug, Anderson	
406C	4460899	1	Connector, Female - 6 Position	
406C	4460464	6	Pin, Male	
406D	Not Available	1	Harness with Connector (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460424	1	Connector, Female - 2 Position (Note: Connection to this plug used only when battery interlock options are required)	
406E	4460227	2	Pin, Male	
406F	Not Available	1	AC Harness/Cord Set	
406G	Not Available	1	Connector, Female	
407		Ref	Cable, AC Power to Charger Options:	
407	1060688		Cable with Factory Supplied Plug	
407	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	
408A	4460464	3	Pin, Male	
409	4360539	1	Toggle Switch and Harness (No Separate Harness Available)	
409A	Not Available	1	Plug, Male - 3 Position	
410	Not Available	1	Joystick Harness	
410A	4460266	1	Receptacle, Female - 9 Position	
410A	4460226	8	Socket, Female	
411		Ref	Plug Options:	
411	Not Available		ANSI Spec Plug (Use p/n 1060688)	
411	Not Available		Australian and Japanese Specs (Purchase Locally)	
411		Ref	CE Spec Options:	
411	0275666	Ref	IEC Yellow Receptacle Installation	A
411	4461196	Ref	Receptacle, IEC Yellow	A
411	0276667	Ref	IEC Blue Receptacle Installation	
411	4661199	Ref	Receptacle, IEC Blue	A
411	0275665	Ref	AFSINT 107 Keyed Ground Receptacle Installation	
411	4661249	Ref	Receptacle, AFSINT 107 Keyed Ground	A
411	0275663	Ref	CEE 7 Post Ground Receptacle Installation	
411	4661202	Ref	Receptacle, CEE 7 Post Ground	A
411	0275664	Ref	CEE 7 Side Ground Receptacle Installation	
411	4661205	Ref	Receptacle, CEE 7 Side Ground	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	OPTIONAL HARNESSSES	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
501A	4460464	3	Pin, Male	
502	2920161	1	Beacon Light and Harness (Separate Harness Not Available)	
502A	4460891	1	Plug, Male - 2 Position (1 Per Harness)	
502A	4460465	2	Socket, Female (2 Per Harness)	
503		Ref	Platform Electrical Outlet Components	
503		Ref	ANSI, ANSI Export, CSA, Japanese and UL Specs Options:	
503	0272839	Ref	110V with Receptacle and Plug	H
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	F
503		Ref	Australian Spec Options:	
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	F
503		Ref	CE Spec Options:	
503	0275487	Ref	110V with IEC Yellow Receptacle and Plug and Circuit Breaker (1930ES was p/n 0275487/2646ES & 3246ES was p/n 0275520)	C
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components) (All Models)	F
503	0275488	Ref	220V with IEC Blue Receptacle and Plug and Circuit Breaker (1930ES was p/n 0275488/2646ES & 3246ES was p/n 0275521)	C
503	0275486	Ref	220V with AFSINT 107 Keyed Ground Receptacle and Plug and Circuit Breaker (1930ES was p/n 0275486/2646ES & 3246ES was p/n 0275519)	C
503	0275472	Ref	220V with CEE 7 Post Ground Receptacle and Plug and Circuit Breaker (2x4 Box) (1930ES was p/n 0275472/2646ES & 3246ES was p/n 0275517)	C
503	0275489	Ref	220V with CEE 7 Post Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (1930ES was p/n 0275489/2646ES & 3246ES was p/n 0275522)	D
503	0275485	Ref	220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Single Box) (1930ES was p/n)0275485/2646ES & 3246ES was p/n 0275518)	C
503	1001096628	Ref	220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Dual Boxes)	A
		Ref	Note: Qty shown is for single Receptacle Box. Double Qty listed for Dual Receptacle Boxes.	
503	0275490	Ref	220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (1930ES was p/n 0275490/2646ES & 3246ES was p/n 0275523)	D
503		Ref	Decal - AC Power (Not Shown)	
503	1703464	1	110V	
503	3252507	1	220V	
503A		Ref	Box, Switch Options:	
503A	0861731	1	0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
503A	Not Available	1	0272843 Installation (Purchase Locally)	
503A	4460315	1	0272839 Installation (Terminal, Spade) (Not Shown)	
503A	0861781	1	0275487 & 0275488 Installations	
503A	See Note	1	0275774/0275775 Installations	
		Ref	(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	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503A	1001141967	1	includes Box p/n 1001141967 and items 503B, 503D & 503E.) 1001100343, 1001100344, 1001141970 & 1001141971 Service Kits	
503B		Ref	Cover Options:	
503B	1671207	1	0272839 Installation	
503B	Not Available	1	0272843 Installation (Purchase Locally)	
503B	4461244	1	0275472 Installation (Includes Receptacle)	
503B	4461245	1	0275485 & 1001096628 Installations (Includes Receptacle)	
503B	4461246	1	0275486 Installation (Includes Receptacle)	
503B	4461198	1	0275487 Installation (Includes Receptacle)	
503B	4461201	1	0275488 Installation (Includes Receptacle)	
503B	1001100343	1	0275489 Installation (Includes Receptacle) (was p/n 4461204 & 1001141971)	
503B	1001100344	1	0275490 Installation (Includes Receptacle) (was p/n 4461207 & 1001141970)	
503B	1001141968	1	1001100343 & 1001141971 Service Kit	
503B	1001141969	1	1001100344 & 1001141970 Service Kit	
503C		Ref	Connector, Strain Relief Options:	
503C	4460662	1	0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
503C	Not Available	1	0272843 Installation (Purchase Locally)	
503C	4461257	1	0275487, 0275488, 0275489 & 0275490 Installations (90)	
503C	4461258	1	0275487, 0275488, 0275489 & 0275490 Installations (Adapter)	
503C	4460633	1	0275520 & 0275521 Installations	
503C	4460428	1	0275522 & 0275523 Installations	
503D		Ref	Receptacle, Electrical Options:	
503D	4460346	1	0272839 Installation	
503D	Not Available	1	0272843 Installation (Purchase Locally)	
503D	4461244	1	0275472 Installation (Includes Cover)	
503D	4461245	1	0275485 & 1001096628 Installation (Includes Receptacle)	
503D	4461246	1	0275486 Installation (Includes Cover)	
503D	4461198	1	0275487 Installation (includes Cover)	
503D	4461201	1	0275488 Installation (Includes Cover)	
503D	1001100343	1	0275489 Installation (Includes Receptacle) (was p/n 4461204 & 1001141971)	
503D	1001100344	1	0275490 Installation (Includes Receptacle) (was p/n 4461207 & 1001141970)	
503D	1001141968	1	1001100343 & 1001141971 Service Kit	
503D	1001141969	1	1001100344 & 1001141970 Service Kit	
503E		Ref	Plug End Options:	
503E	4460138	1	0272839 Installation (Male)	
503E	Not Available	1	0272843 Installation (Purchase Locally)	
503E	4461202	1	0275472/0275489 Installations and 1001100343/ 1001141971 Service Kit (Male)	
503E	4461203	1	0275472/0275489 Installations and 1001100343/ 1001141971 Service Kit (Female)	
503E	4461205	1	0275485/1001096628 Installation and 1001100344/ 1001141970 Service Kit (Male)	
503E	4461206	1	0275485/1001096628 Installation and 1001100344/ 1001141970 Service Kit (Female)	
503E	4461249	1	0275486 Installation (Male)	
503E	4461250	1	0275486 Installation (Female)	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
503E	4461196	1	0275487 Installation (Male)	
503E	4461197	1	0275487 Installation (Female)	
503E	4461199	1	0275488 Installation (Male)	
503E	4461200	1	0275488 Installation (Female)	
503E	4461202	1	0275489 Installation (Male)	
503E	4461203	1	0275489 Installation (Female)	
503E	4461205	1	0275490 Installation (Male)	
503E	4461206	1	0275490 Installation (Female)	
503F		Ref	Hardware Options:	
503F	4010405	AR	Screw M4 x 10mm	
503F	4010408	AR	Screw M4 x 16mm	
503F	4010612	AR	Screw M6 x 16mm	
503F	4191706	AR	Screw M6 x 12mm	
503F	4191708	AR	Screw M6 x 20mm	
503F	0760619	AR	Screw M6 x 55mm	
503F	3290405	AR	Locknut M4	
503F	3290605	AR	Locknut M6	
503F	3290607	AR	Locknut M6	
503F	4811400	AR	Flatwasher M4	
503F	1001091102	AR	Flatwasher M4 Oversize	
503F	4811700	AR	Flatwasher M6	
503G		Ref	Bracket, Receptacle Box Mounting Options:	
503G	Not Required	0	0272839, 0272843, 0275472, 0275485, 0275486 & 1001096628 Installations	
503G	0903569	1	0275487, 0275488, 0275489 & 0275490 Installations	
503G	0903484	1	1001096628 Installation (2nd Receptacle Box Only)	
503H	0903566	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec Installations Except 0272843 Installation)	
503H	01001096627	1	Bracket, Circuit Breaker Mounting (Required Only on CE Spec 1001096628 Installations)	
503J	2902541	AR	Circuit Breaker Box Assembly (Required Only on CE Spec Installations Except 0272843 Installation):	E
		Ref	Note: Original box assembly used one single large breaker which is no longer available. Purchase p/n 2902541 as replacement.	
503J		Ref	Parts for Replacement p/n 2902541 Box:	
503J	1001109475	1	Circuit Breaker - 16A	
503J	1001109482	1	Circuit Breaker - 30mA	
503J	4460957	1	Terminal Block	
503J	4460956	1	Barrier, Terminal Block	
503K	1001097150	1	Connector, Strain Relief (Required Only on CE Spec Installations Except 0272843 Installation)	
503L	1060908	55 in/1.4m	Cable, Extension (Required Only on CE Spec Installations Except 0272843 Installation)	
503M	1060908	55 in/1.4m	Cable, Electrical (Required Only on CE Spec 1001096628 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 and Plug Kit (110V IEC Yellow) (Includes Items 503A, 503B, 503C and Male 503E Plug End) (0275487 Installation)	1
	0275217	1	Receptacle, Box and Plug Kit (220V IEC Blue) (Includes Items 503A, 503B, 503D and Male 503E Plug End) (0275488 Installation)	1

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0275452	1	Receptacle Box Kit (220V CEE 7 Post Ground with 2x4 Box) (Includes Items 503A, 503B, 503D and Male 503E Plug End) (0275472 Installation)	1
	1001141971	1	Receptacle, Box and Plug Kit (220V CEE 7 Post Ground with 70x70 Box) (Includes Items 503A, 503B, 503D and 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 and Male 503E Plug End) (0275485 & 1001096628 Installation)	1
	1001141970	1	Receptacle, Box and 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 and Plug Kit (220V AFSINT 107 Keyed Ground) (Includes Items 503A, 503B, 503D and 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		Ref	Brake Disconnect /Release Switch Components	
504A	4922944	1	Brake Disconnect Harness and Switch	E
504A	1060680	15 ft/2.7m	Cable, Electrical 18/2	
504A	4240003	1	Strap, Cinch (Not Shown)	
504B	4360613	1	Switch, Limit	
504C	4360387	1	Brake Release Switch	
505		Ref	Battery Charger/Inverter Components (ANSI and CSA Option Only):	
505A	Not Available	1	AC Output Harness (Internal Part of Inverter)	
505B	Not Available	1	Receptacle, Female - 4 Position (Conxall T9014)	
505C	Not Available	1	AC Input Harness (Internal Part of Inverter)	
505D	Not Available	1	Receptacle, Female - 4 Position (Conxall T9016)	
505E	Not Available	1	Remote Control Harness (Internal Part of Inverter)	
505F	Not Available	1	Plug, Male - 8 Position (Conxall 7281-8PG-300)	
505G	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)	
505R	4460899	1	Receptacle, Female - 6 Position	
505R	4460464	4	Pin, Male	
505R	4460466	2	Plug, Seal	
505R	3990010	1	Diode 6A/600V	
505S	4360336	1	Switch, Toggle	
505T	4460424	2	Receptacle, Female - 2 Position	
505T	4460267	2	Pin, Male	
505U	4923392	1	Cable, Battery + to Inverter +	A
505V	4923393	1	Cable, Battery - to Inverter -	A
		Ref	Tools for Service	
601	7002821	1	Crimper, Wire (Not Shown)	
602	7002823	1	Extractor, Pin - Universal (Not Shown)	
603	4460467	AR	Extractor, Pin #16 Gauge (Not Shown)	
604	4460510	AR	Extractor, Pin #12 Gauge (Not Shown)	
605	7002828	1	Stripper, Wire (Not Shown)	

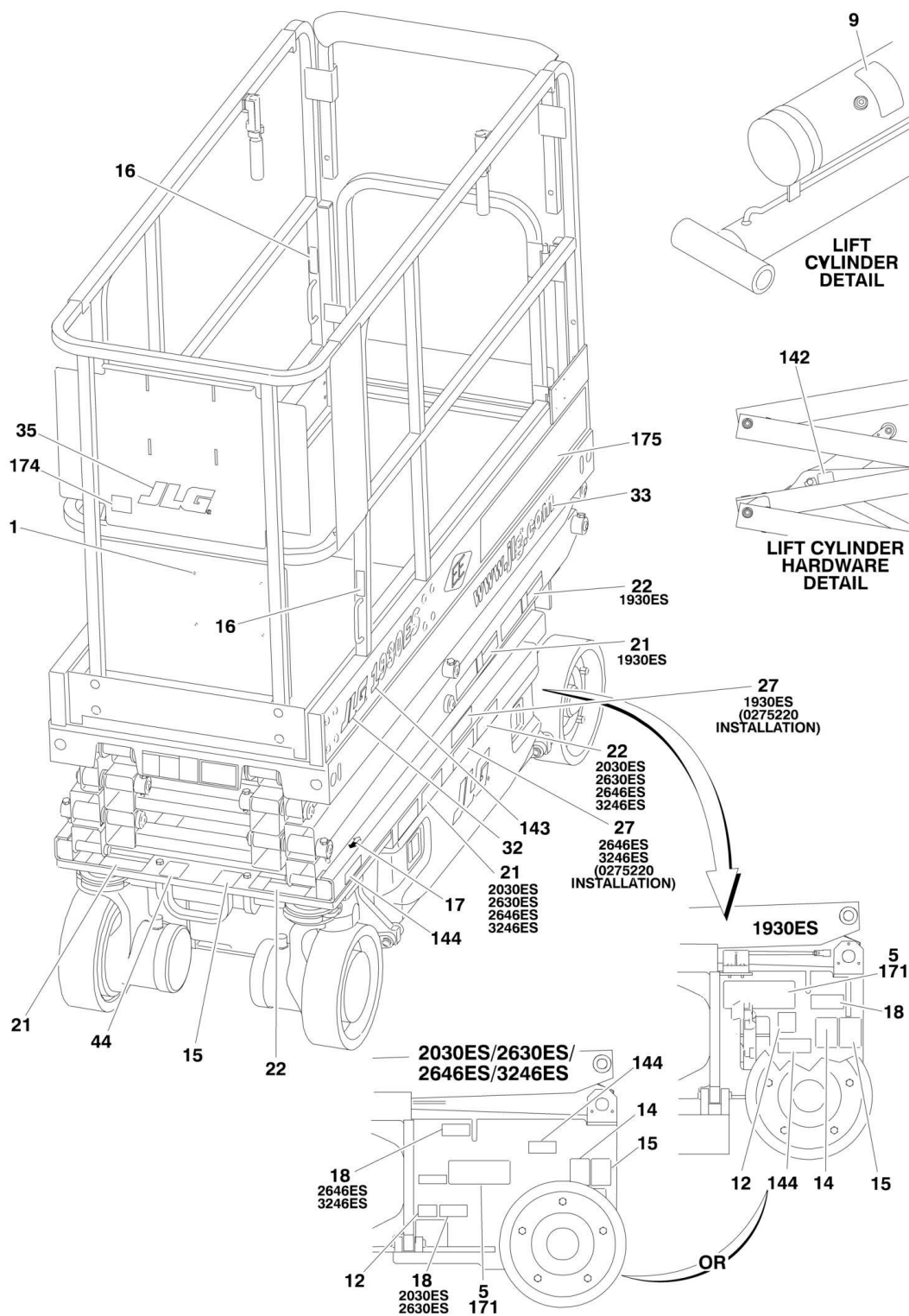
SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
606	2901443	1	Analyzer Kit (Not Shown)	
606A	1600244	1	Analyzer	
606B	1060633	1	Cable, Analyzer	
606C	4460321	2	Plug, Male - 4 Position	
606C	4460226	8	Socket, Female	
607	1001137005	1	Software Cables Kit (Not Shown)	

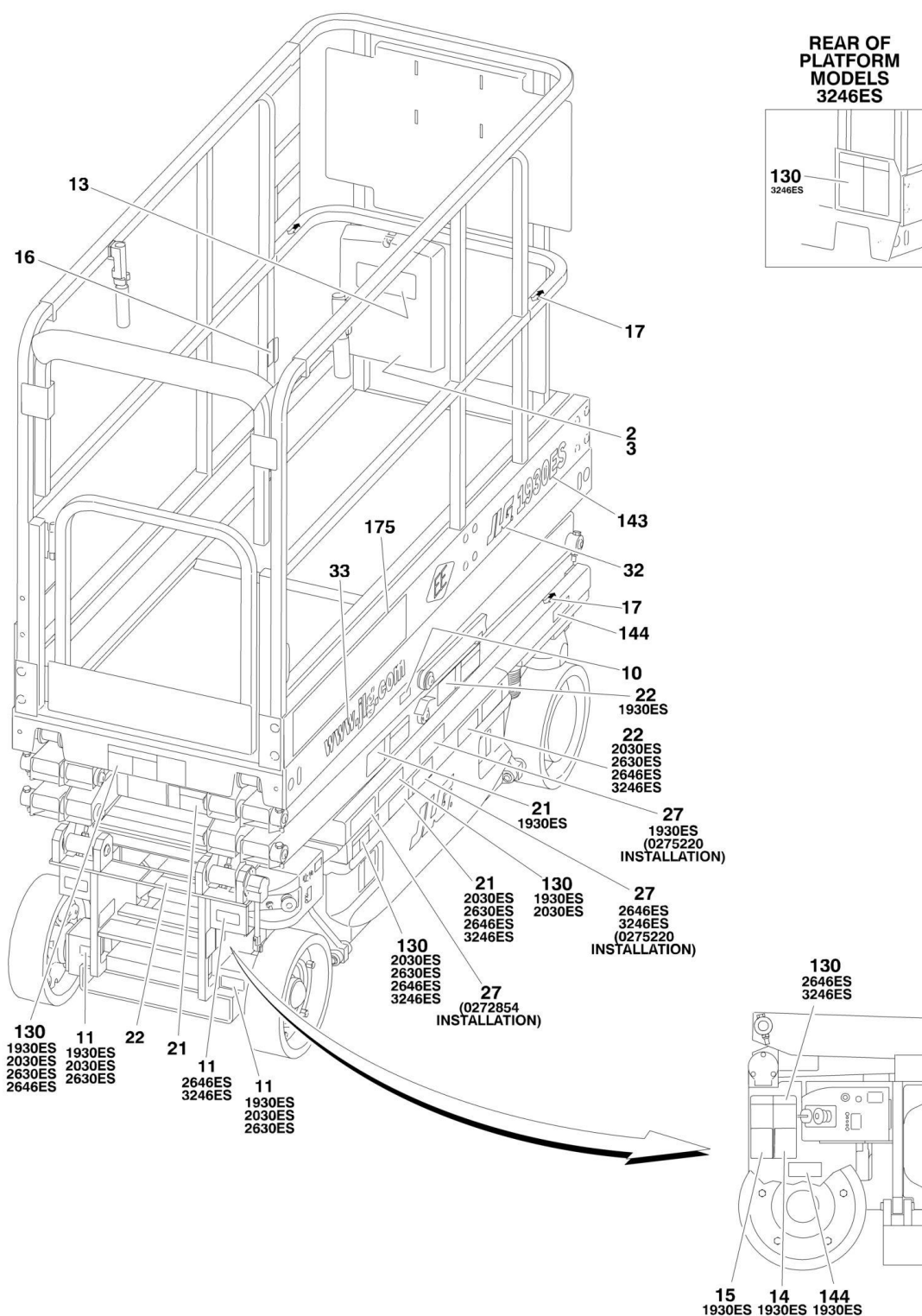
SECTION 8 - DECALS

SECTION 8 - DECALS

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC)



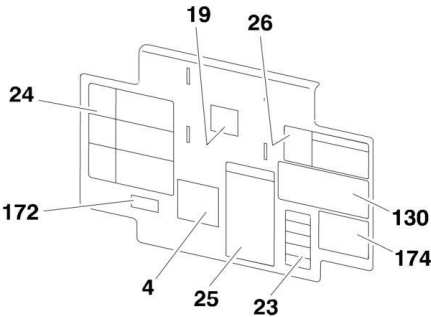
SECTION 8 - DECALS



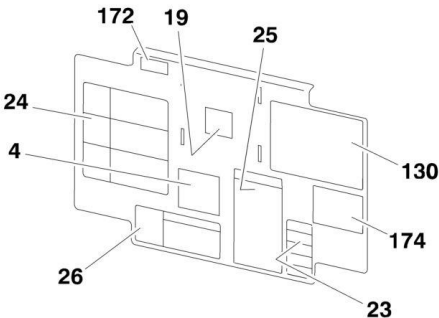
SECTION 8 - DECALS

PLATFORM DECAL
PANEL DETAILS

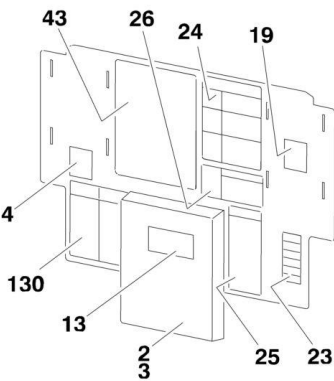
MODEL 1930ES



MODELS 2030ES & 2630ES



MODELS 2646ES & 3246ES



SECTION 8 - DECALS

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC)

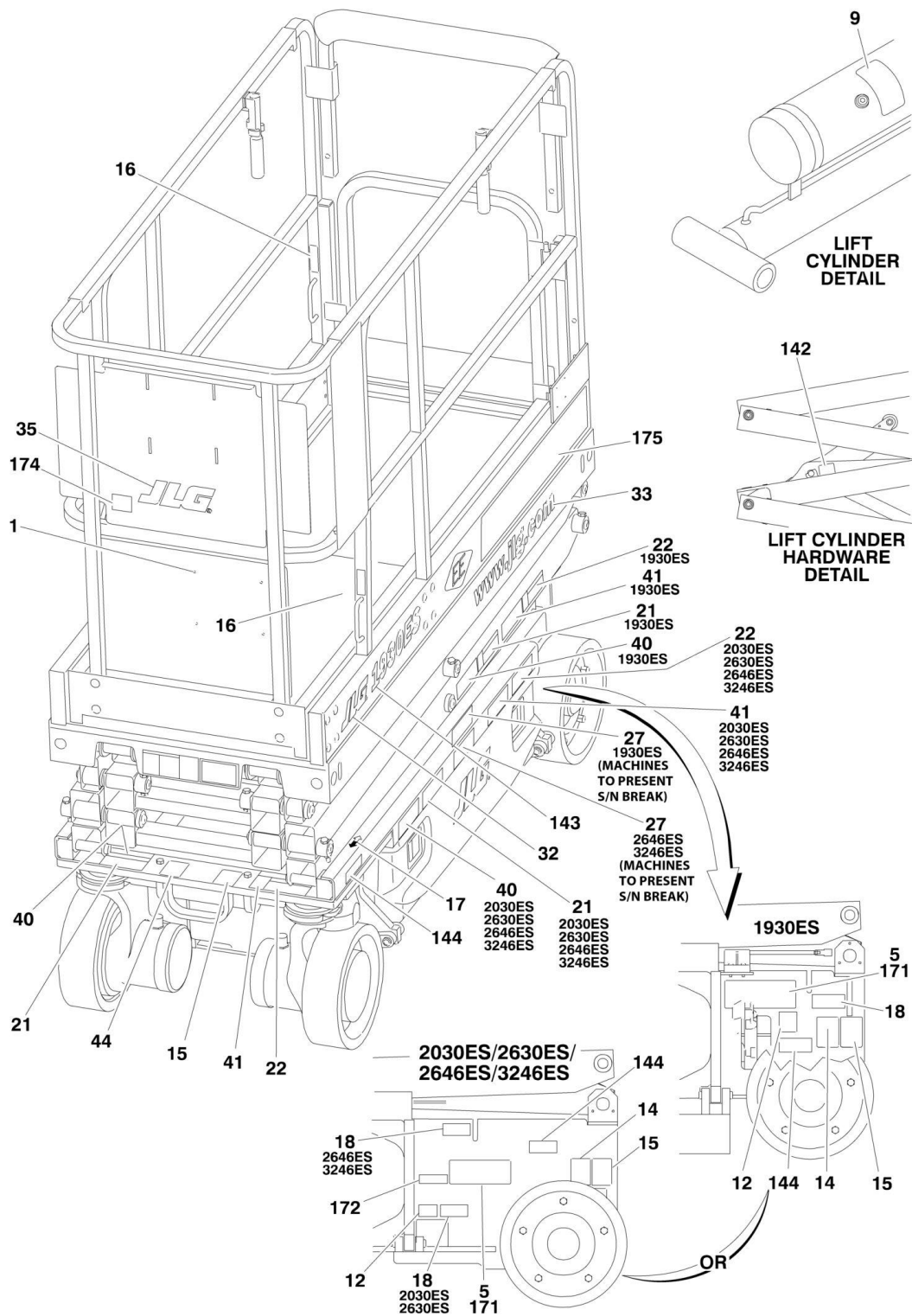
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECALS INSTALLATION - ANSI SPEC	
		Ref	Decals Installation, 1930ES	
	0272854	Ref	USA Built Machines (SN 0200135154 through 0200150265)	8
	0272854	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	8
	0275220	Ref	USA Built Machines (SN 0200150266 through 0200152825)	3
	0275220	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	3
	0272854	Ref	Decals Installation, 2030ES/2630ES	7
		Ref	Decals Installation, 2646ES/3246ES	
	0272854	Ref	USA Built Machines (SN 0200135154 through 0200151605)	8
	0272854	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	8
	0275220	Ref	USA Built Machines (SN 0200151606 through 0200152825)	3
	0275220	Ref	Belgium Built Machines (SN 1200008265 through 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	
7	Not Available	1	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box)	
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	4	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
21	1705694	4	Decal - Crushing Hazard	
22	1705695	4	Decal - Danger Electrocution	
23	1705686	1	Decal - Legend	
24	1705680	1	Decal - Danger/Warning	
25	1705679	1	Decal - Inspection	
26	1705681	1	Decal - Electrocution	
27	1703813	2	Decal - Warning Battery Vent	
32		Ref	Decal - JLG Options:	
32	1705754	2	USA Built Machines (SN 0200135154 through 0200148429)	
32	1705754	1	Belgium Built Machines (SN 1200004293 through 1200006153)	
32	1705781	2	USA Built Machines (SN 0200148430 through 0200152825)	
32	1705781	1	Belgium Built Machines (SN 1200006154 through 1200008481)	
33	1705687	2	Decal - Website (USA Built Machines Only) (SN 0200135154 through 0200137525)	

SECTION 8 - DECALS

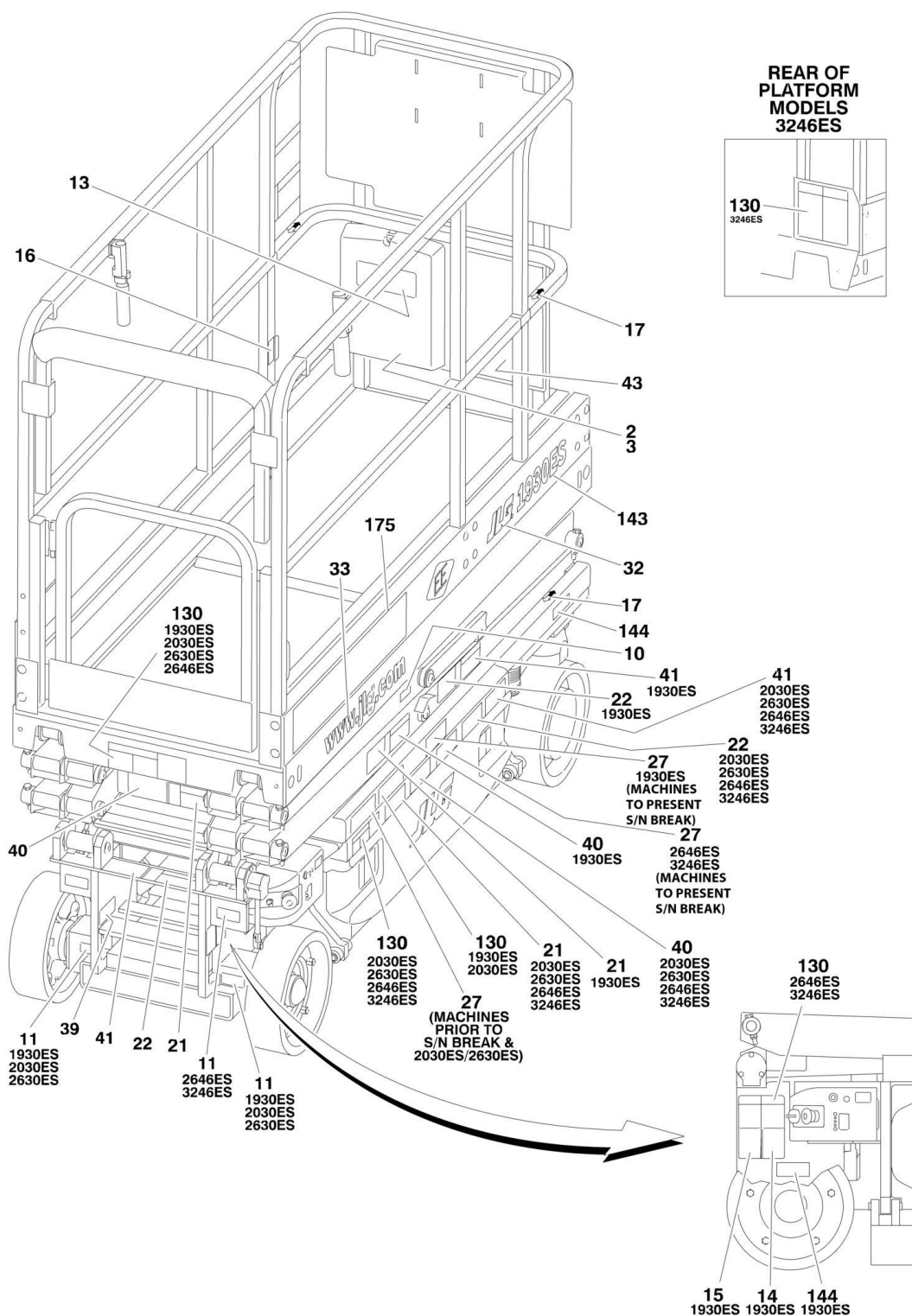
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	1702773	1	Decal - JLG	8
39		Ref	Decal - AC Power Options:	
39	1703464	1	120-60Hz	
39	3252507	1	220V-50/60Hz	
44	1701499	1	Decal - No Lift	
	2902267	1	Decal Kit 1 (Includes Items 9-19 & 44)	2 59
		Ref	Decal Kit 2 Options (Includes Items 21-27 & 39):	
	2902522	1	0272854 Installation (Was p/n 2902268)	
	2902522	1	0275220 Installation	
	0010588	Ref	DECAL OPTIONS	
130		Ref	Decal - Capacity Options:	8 2 59
130		Ref	Decal - Capacity, 1930ES:	
130	1705638	2	500lbs/227kg (Platform Box and Platform Entry Locations)	
130	1705699	1	500lbs/227kg (Ground Control Box Location)	
130	1705639	3	Decal - Capacity, 2030ES: 800lbs/363kg (All Locations)	
130		Ref	Decal - Capacity, 2630ES:	
130	1705941	1	Platform Console Box Decal - 500lb/227kg and 800lb/360kg (Located at Platform Console Box)	
130	1705880	1	Platform Entry Decal - 500lb/227kg and 800lb/360kg	
130	1705941	1	Ground Control Box - 500lb/227kg and 800lb/360kg	
130	1705640	3	Decal - Capacity, 2646ES: 1000lbs/454kg	
130	1705641	3	Decal - Capacity, 3246ES: 700lbs/317kg	
142	1001116915	1	Decal - Hardware Retention	
143		Ref	Decal - Model Designation Options:	
143	1705642	2	Decal - Model Designation, 1930ES	
143	1705643	2	Decal - Model Designation, 2030ES	
143	1705644	2	Decal - Model Designation, 2630ES	
143	1705645	2	Decal - Model Designation, 2646ES	
143	1705646	2	Decal - Model Designation, 3246ES	
144		Ref	Decal - Max Tire Load Options:	
144	1705647	4	Decal - Max Tire Load, 1930ES	
144	1706310	4	Decal - Max Tire Load, 2030ES/2630ES	
144	1706311	4	Decal - Max Tire Load, 2646ES/3246ES	
171	Not Available		Nameplate - Serial Number	
174	3251813	1	Decal - Made in USA	
175		Ref	Decal - Platform Color Options:	
175	1705850	2	Decal - Platform Color, 1930ES/2030ES/2630ES (was p/n 1705741, 1705742 & 1705849)	
175	1705851	2	Decal - Platform Color, 2646ES/3246ES (was p/n 1705743)	

SECTION 8 - DECALS

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



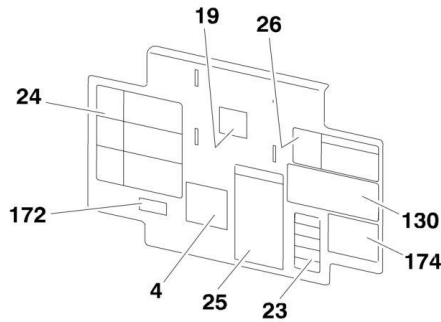
SECTION 8 - DECALS



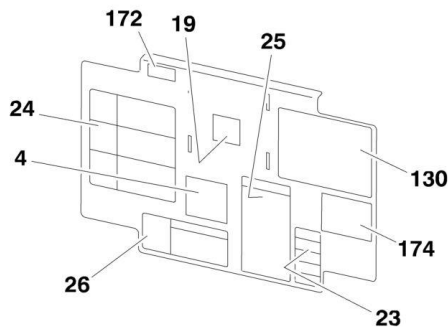
SECTION 8 - DECALS

PLATFORM DECAL
PANEL DETAILS

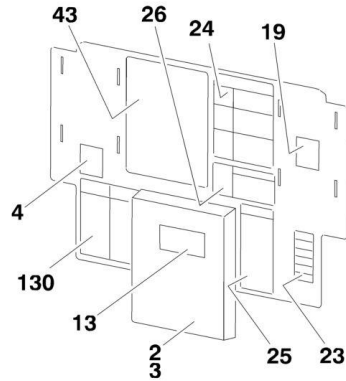
MODEL 1930ES



MODELS 2030ES & 2630ES



MODELS 2646ES & 3246ES



SECTION 8 - DECALS

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

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1705781	1	DECAL,JLG LOGO, 3"	
		Ref	DECALS INSTALLATION - ANSI EXPORT SPECS	
		Ref	Decals Installation, 1930ES:	
		Ref	USA Built Machines (SN 0200135154 through 0200150265)	
		Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	
	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 (SN 0200150266 through 0200152825)	
		Ref	Belgium Built Machines (SN 1200007882 through 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	Decals Installation, 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	Decals Installation, 2646ES/3246ES:	
		Ref	USA Built Machines (SN 0200135154 through 0200151605)	
		Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	
	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 (SN 0200151606 through 0200152825)	
		Ref	Belgium Built Machines (SN 1200008265 through 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	
7	Not Available	1	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box)	
9	1704412	1	Decal - Hydraulic Oil	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	3	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
21		Ref	Decal - Crushing Hazard	
21	1705694	4	All Specs Except Brazilian Spec	
21	1705722	4	Brazilian Spec	
22		Ref	Decal - Danger Electrocution	
22	1705695	4	All Specs Except Brazilian Spec	
22	1703834	4	Brazilian Spec	
23		Ref	Decal - Legend	
23	1705726	1	Brazilian Spec	
23	1705946	1	Chinese Spec	
23	1705723	1	CSA Spec	
23	1706057	1	Korean Spec	
23	1705720	1	Latin American Spec	
24		Ref	Decal - Danger/Warning	
24	1705680	1	All Specs Except Brazilian Spec	
24	1705894	1	Brazilian Spec	
25		Ref	Decal - Inspection	
25	1705679	1	All Specs Except Brazilian Spec	
25	1705727	1	Brazilian Spec	
26		Ref	Decal - Electrocution	
26	1705681	1	All Specs Except Brazilian Spec	
26	1705721	1	Brazilian Spec	
27		Ref	Decal - Warning Battery Vent	
27	1704341	2	Brazilian Spec	
27	1704344	2	Chinese Spec	
27	1704340	2	CSA Spec	
27	1703856	2	Korean Spec	
27	1704339	2	Latin American Spec	
32		Ref	Decal - JLG Options:	
32	1705754	2	USA Built Machines (SN 0200135154 through 0200148429)	
32	1705754	1	Belgium Built Machines (SN 1200004293 through 1200006153)	
32	1705781	2	USA Built Machines (SN 0200148430 through 0200152825)	
32		Ref	Belgium Built Machines (SN 1200006154 through 1200008481)	
33	1705687	2	Decal - Website (USA Built Machines Only) (SN 0200135154 through 0200137525)	
35	1702773	1	Decal - JLG	
39		Ref	Decal - AC Power Options:	
39	1703464	1	120-60Hz	
39	3252507	1	220V-50/60Hz	
40		Ref	Decal - Crushing Hazard Options:	
40	1705725	4	Brazilian and Latin American Specs	

SECTION 8 - DECALS

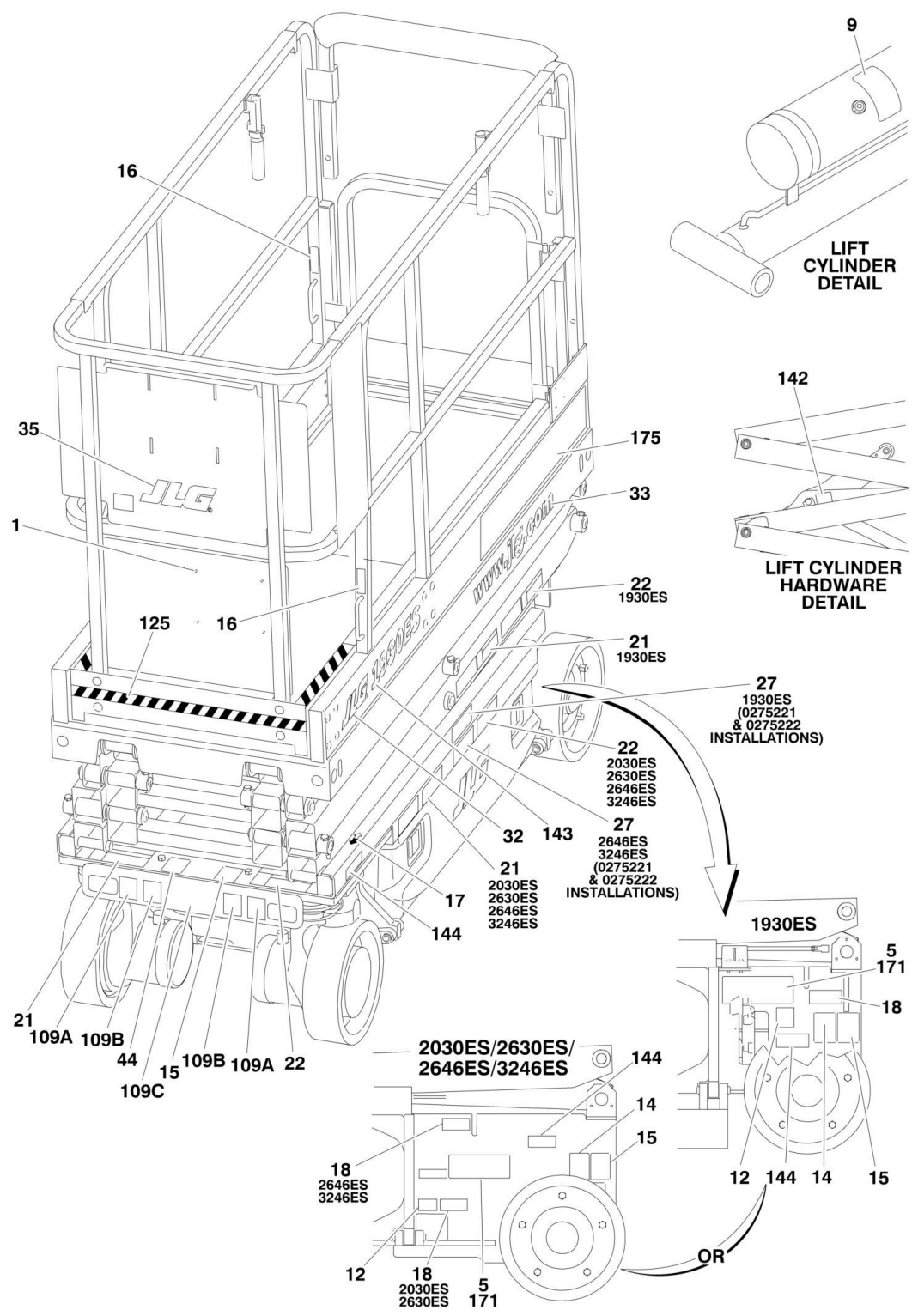
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
40	1705717	4	CSA Spec	
40	1705943	4	Chinese Spec	
40	1706052	4	Korean Spec	
41		Ref	Decal - Electrocutation Options:	
41	1705724	4	Brazilian and Latin American Specs	
41	1705718	4	CSA Spec	
41	1705944	4	Chinese Spec	
41	1706056	4	Korean Spec	
43		Ref	Decal - Warning/Danger Options:	
43	1705719	1	Brazilian and Latin American Specs	
43	3252098	1	CSA Spec (English/French)	
43	1705945	1	Chinese Spec	
43	1706053	1	Korean Spec	
44	1701499	1	Decal - No Lift	
	2902267	1	Decal Kit 1 (Includes Items 9-19 & 44)	8
		Ref	Decal Kit 2 Options (Includes Items 21-27 & 40-41):	
	2902526	1	Brazilian Spec (was p/n 2902302)	2
	2902528	1	Chinese Spec (was p/n 2902335)	2
	2902524	1	CSA Spec (was p/n 2902278)	2
	2902532	1	Korean Spec (was p/n 2902378)	2
	2902525	1	Latin American Spec (was p/n 2902301)	2
	0010588	Ref	DECAL OPTIONS	59
130		Ref	Decal - Capacity Options:	
130		Ref	Decal - Capacity, 1930ES:	
130	1705638	2	500lbs/227kg (Platform Box and Platform Entry Locations)	
130	1705699	1	500lbs/227kg (Ground Control Box Location)	
130	1705639	3	Decal - Capacity, 2030ES: 800lbs/363kg (All Locations)	
130		Ref	Decal - Capacity, 2630ES:	
130	1705941	1	Platform Console Box Decal - 500lb/227kg and 800lb/360kg (Located on Frame Side and at Platform Console Box)	
130	1705880	1	Platform Entry Decal - 500lb/227kg and 800lb/360kg	
130	1705941	1	Ground Control Box - 500lb/227kg and 800lb/360kg	
130	1705640	3	Decal - Capacity, 2646ES: 1000lbs/454kg	
130	1705641	3	Decal - Capacity, 3246ES: 700lbs/317kg	
142	1001116915	1	Decal - Hardware Retention	
143		Ref	Decal - Model Designation Options:	
143	1705642	2	Decal - Model Designation, 1930ES	
143	1705643	2	Decal - Model Designation, 2030ES	
143	1705644	2	Decal - Model Designation, 2630ES	
143	1705645	2	Decal - Model Designation, 2646ES	
143	1705646	2	Decal - Model Designation, 3246ES	
144		Ref	Decal - Max Tire Load Options:	
144	1705647	4	Decal - Max Tire Load, 1930ES	
144	1706310	4	Decal - Max Tire Load, 2030ES/2630ES	
144	1706311	4	Decal - Max Tire Load, 2646ES/3246ES	
171	Not Available		Nameplate - Serial Number	
172		Ref	Decal - CSA Options:	
172	1705303	1	CSA Spec (English/French)	
172	Not Required	0	Latin American Spec (English/Spanish)/(English/Chinese Spec)	
174	3251813	1	Decal - Made in USA	
175		Ref	Decal - Platform Color Options:	
175	1705850	2	Decal - Platform Color, 1930ES/2030ES/2630ES (was p/n	

SECTION 8 - DECALS

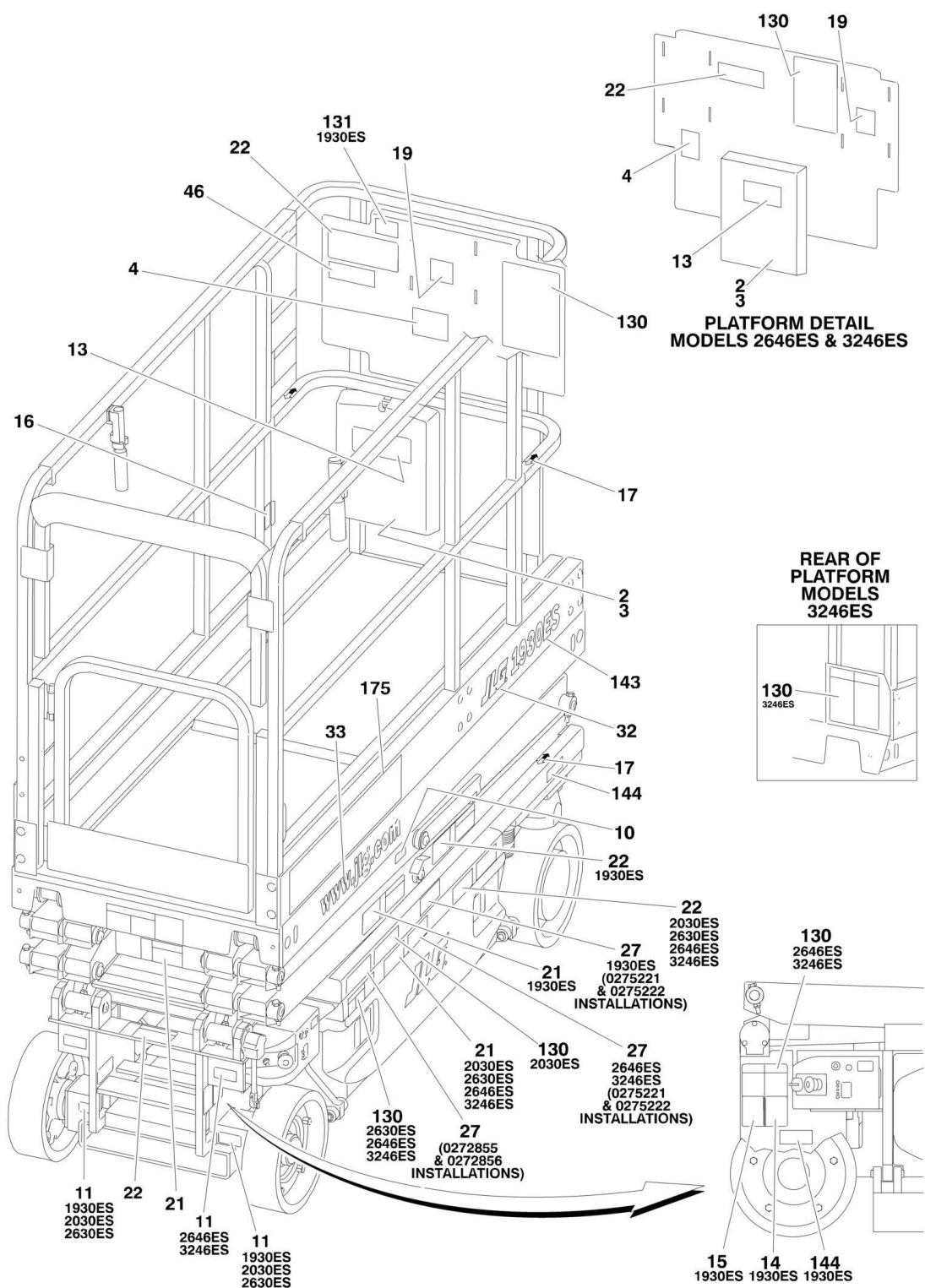
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
175	1705851	2	1705741, 1705742 & 1705849) Decal - Platform Color, 2646ES/3246ES (was p/n 1705743)	
176	1705880	1	Decal - Capacity (Platform Entry) (800lbs/363kg - 500lbs/227kg) (2630ES)	

SECTION 8 - DECALS

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



SECTION 8 - DECALS



SECTION 8 - DECALS

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

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECALS INSTALLATION - AUSTRALIAN AND CE SPECS	
		Ref	Australian Spec Options:	
		Ref	Decals Installation, Australian Spec, 1930ES	
	0272856	Ref	USA Built Machines (SN 0200135154 through 0200150265)	6
	0272856	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	6
	0275222	Ref	USA Built Machines (SN 0200150266 through 0200152825)	3
	0275222	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	3
	0272856	Ref	Decals Installation, Australian Spec, 2030ES/2630ES	6
		Ref	Decals Installation, Australian Spec, 2646ES/3246ES	
	0272856	Ref	USA Built Machines (SN 0200135154 through 0200151605)	6
	0272856	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	6
	0275222	Ref	USA Built Machines (SN 0200151606 through 0200152825)	3
	0275222	Ref	Belgium Built Machines (SN 1200008265 through 1200008481)	3
		Ref	CE Spec Options:	
		Ref	Decals Installation, CE Spec, 1930ES	
	0272855	Ref	USA Built Machines (SN 0200135154 through 0200150265)	8
	0272855	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	8
	0275221	Ref	USA Built Machines (SN 0200150266 through 0200152825)	3
	0275221	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	3
	0272855	Ref	Decals Installation, CE Spec, 2030ES/2630ES	8
		Ref	Decals Installation, CE Spec, 2646ES/3246ES	
	0272855	Ref	USA Built Machines (SN 0200135154 through 0200151605)	8
	0272855	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	8
	0275221	Ref	USA Built Machines (SN 0200151606 through 0200152825)	3
	0275221	Ref	Belgium Built Machines (SN 1200008265 through 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	
7	Not Available	1	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box)	
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	3	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
21	1705673	4	Decal - Crushing Hazard	
22	1705671	5	Decal - Danger Electrocution	
27	1705670	1	Decal - Warning Battery Vent	
32		Ref	Decal - JLG Options:	
32	1705754	2	USA Built Machines (SN 0200135154 through 0200148429)	
32	1705754	1	Belgium Built Machines (SN 1200004293 through 1200006153)	
32	1705781	2	USA Built Machines (SN 0200148430 through 0200152825)	
32	1705781	1	Belgium Built Machines (SN 1200006154 through 1200008481)	
33	1705687	2	Decal - Website (USA Built Machines Only) (SN 0200135154 through 0200137525)	
35	1702773	1	Decal - JLG	
39		Ref	Decal - AC Power Options:	
39	1703464	1	120-60Hz	
39	3252507	1	220V-50/60Hz	
44	1701499	1	Decal - No Lift	
	2902267	1	Decal Kit 1 (Includes Items 9-19 & 44)	8
	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
109	0273454	AR	Lifting Lug and 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	
109C	3574636	1	Bar, Mounting (Located Behind Item 109C)	
125		Ref	Decal - Corner Stripe Options:	
125	0272721	AR	Decal - Corner Stripe, 1930ES/2030ES/2630ES	B
125	0272862	AR	Decal - Corner Stripe, 2646ES/3246ES	B
125	4420051	1.3 m	Decal - Corner Stripe, 1930ES/2030ES/2630ES	
125	4420051	1.2 m	Decal - Corner Stripe, 2646ES/3246ES	
130		Ref	Decal - Capacity Options:	
130	1705666	1	Decal - Capacity, 230kg Indoor/120kg Outdoor (1930ES)	
130	1705667	1	Decal - Capacity, 360kg (2030ES)	
130	1705887	1	Decal - Capacity, 230kg (2630ES) (Australian Specs)	
130	1705942	1	Decal - Capacity, 230kg/360kg (2630ES) (CE Specs)	
130	1705668	1	Decal - Capacity, 450kg (2646ES)	
130	1705819	1	Decal - Capacity, 320kg/450kg (3246ES) (Australian Spec)	
130	1705704	1	Decal - Capacity, 320kg (3246ES) (CE Spec)	
142	1001116915	1	Decal - Hardware Retention	
143		Ref	Decal - Model Designation Options:	
143	1705642	2	Decal - Model Designation, 1930ES	
143	1705643	2	Decal - Model Designation, 2030ES	
143	1705644	2	Decal - Model Designation, 2630ES	
143	1705645	2	Decal - Model Designation, 2646ES	
143	1705646	2	Decal - Model Designation, 3246ES	
144		Ref	Decal - Max Tire Load Options:	
144	1705648	4	Decal - Max Tire Load, 1930ES	
144	1706310	4	Decal - Max Tire Load, 2030ES/2630ES	
144	1706312	4	Decal - Max Tire Load, 2646ES/3246ES	
171	Not Available		Nameplate - Serial Number	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
175		Ref	Decal - Platform Color Options:	
175	1705850	2	Decal - Platform Color, 1930ES/2030ES/2630ES (was p/n 1705741, 1705742 & 1705849)	
175	1705851	2	Decal - Platform Color, 2646ES/3246ES (was p/n 1705743)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. MODEL ES STANDARD PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.	
		Ref	STANDARD PARTS	
	4360069	1	Breaker, Circuit - 10 Amp	
	4360328	1	Switch, Toggle	
	2860030	1	Key, Replacement	
	4360475	1	Switch, Mushroom	
	4360387	1	Switch, Push Button	
	1001091910	1	Switch, Rotary Angle Sensor	
	1001134438	1	Controller, Drive	
	4360538	1	Switch and Membrane	
	4360539	1	Switch, Toggle	
	7020500	1	Switch, Rocker	
	7020501	1	Switch, Push Button	
	7023593	1	Plug, Fill	
	7023576	1	Filter	
	3990013	2	Diode 1 Amp	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-2. MODEL ES VARIABLE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.	
		Ref	VARIABLE PARTS	
	1600346	1	Control Module (Frame)	
	3740150	1	Relay (Non-UL Spec)	
	2915064	1	Relay (UL Spec)	
	1600419	1	Control Module (Ground Control)	
	1810140	1	Tilt Module	
	4360469	1	Switch, Key (ANSI/ANSI Export Spec)	
	4360470	1	Switch, Key (CE/AUstralian Spec)	
	3080007	1	Magnet, Latch (Machines with Platform Gate Entry)	
	1001101076	1	Snap Latch Repair Kit (Machines with Platform Chain Entry)	
	1001091965	1	Control Module (Platform)	
	7023540	1	Coil (2030ES/2630ES)	
	7023541	1	Coil (2030ES/2630ES)	
	70000798	1	Coil (1930ES/2646ES/3246ES)	
	70000799	1	Coil (1930ES/2646ES/3246ES)	
	4360607	1	Switch, Limit (2030ES/2630ES)	
	1001109345	1	Switch, Limit (1930ES/2646ES/3246ES)	
	1001109475	1	Breaker, Circuit 16 Amp (CE Spec Machines with Platform Electrical Outlet)	
	1001109482	1	Breaker, Circuit 30 mA (CE Spec Machines with Platform Electrical Outlet)	
	4360613	1	Limit Switch (Machines with Optional Brake Disconnect)	
	4922944	1	Release Switch (Machines with Optional Brake Disconnect)	
	4360482	1	Switch, Toggle (ANSI and CSA Spec Machines with Optional Battery Charger/Inverter Combo)	
	4360336	1	Switch, Toggle (ANSI and CSA Spec Machines with Optional Battery Charger/Inverter Combo)	
	3990010	2	Diode 6 Amp (ANSI and CSA Spec Machines with Optional Battery Charger/Inverter Combo)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-3. MODEL ES MAINTENANCE KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department. MAINTENANCE KITS	
		Ref		
	1001101329	1		
	1001101330	1		

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

FIGURE 10-1. SPECIAL OPTIONS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.	
		Ref	SPECIAL OPTIONS LIST	
		Ref	Airline Installation (1/2in)	
	0274516	Ref	Airline Installation, 1930ES	
	0274370	Ref	Airline Installation, 2030ES	
	0274517	Ref	Airline Installation , 2630ES	
	0274446	Ref	Airline Installation, 2646ES/3246ES	
		Ref	Brake Disconnect/Release Kit Options	
	0275432	Ref	Brake Disconnect Cable Kit (Optional All Specs)	
	2902331	Ref	Brake Mount Kit (includes Mounting Bracket and Setscrew)	
	4922944	Ref	Brake Switch and Harness	
	0275530	Ref	Brake Release Switch (Optional ANSI, ANSI Export, CSA and UL Specs/Standard on Australian and CE Specs) For Machines without Pressure Checks)	
	See Note	Ref	Brake Release Switch (Optional ANSI, ANSI Export, CSA and UL Specs/Standard on Japanese Specs) (For Machines with Pressure Checks) (Was p/n 0275603) Note: Use Both p/ns 0275530 & 0273859.	
	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 and CSA Specs Only)	
	1705304	Ref	Decals - Service Support (Commercial Solutions Group Only) (ANSI, CSA and UL Specs Only)	
	0274545	Ref	Decals - FedEx (ANSI, CSA and UL Specs Only)	
	0273603	Ref	Decals - Grainger Spec (ANSI, CSA and UL Specs Only)	
	0274527	Ref	Decals - Head and Engquist Equipment (ANSI Spec Only)	
	0273543	Ref	Decals - Hertz (ANSI, CSA and UL Specs Only)	
	0272877	Ref	Decals - Home Depot (ANSI, CSA and UL Specs Only)	
	0273544	Ref	Decals - Nations Rent (ANSI, CSA and UL Specs Only)	
	0274242	Ref	Decals - Nations Equipment Services (1930ES/2030ES/2630ES) (ANSI, CSA and UL Specs Only)	
	0274251	Ref	Decals - Nations Equipment Services (2646ES/3246ES) (ANSI, CSA and UL Specs Only)	
	0275900	Ref	Decals - RSC Equipment Rental (ANSI Spec Only)	
	1705304	Ref	Decals - Service Support (ANSI and CSA Specs Only)	
	1706922	Ref	Decals - Service Support (ANSI and CSA Specs Only)	
	0272872	Ref	Decals - Sunbelt (ANSI, CSA and UL Specs Only)	
	0274179	Ref	Decals - Sunstate (ANSI, CSA and UL Specs Only)	
	0274126	Ref	Decals - UL Specs (EE Rating)	
	0272871	Ref	Decals - United Rentals (ANSI, CSA and UL Specs Only)	
	1001103307	Ref	Decals - UPS (ANSI Spec Only)	
		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	

SECTION 10 - SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	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	AR	Fluid, Hydraulic - Mobil DTE 10 Excel 15 (Bulk)	
	70010346	AR	Fluid, Hydraulic - Mobil DTE 10 Excel 15 (1 Gallon)	
	2300042	AR	Fluid, Hydraulic - Synthetic Biodegradeable	
		Ref	Footswitch Installation Options (Japanese Spec)	
	0273761	Ref	Footswitch Installation, 1930ES	
	0273762	Ref	Footswitch Installation, 2030ES/2630ES/2646ES/3246ES	
	3128145	Ref	Inspection Packet (ANSI and ANSI Export Specs Only)	
	0274341	Ref	Interlock Override for Battery Charger Installation (ANSI)	
		Ref	Inverter Installations (ANSI, ANSI Export and Japanese Specs) Only)	
	0272876	Ref	Inverter Installations, 1930ES	
	0273070	Ref	Inverter Installations, 2030ES/2630ES	
	0273071	Ref	Inverter Installations, 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	Maintenance Kits, 1930ES/2030ES/2630ES	
	1001101330	Ref	Maintenance Kits, 2646ES/3246ES	
	2902405	Ref	Motor Band Kit (UL Specs Only)	
	3125053	Ref	Operator Video (ANSI and ANSI Export Specs Only)	
		Ref	Panel Carrier Installations (All Specs Except U/L Spec)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
		Ref	Panel Carrier Installations, 1930ES:	
		Ref	ANSI, ANSI Export and CSA Specs Options:	
	0273436	Ref	USA Built Machines (SN 0200135154 through 0200150265)	
	0273436	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	
	No Longer Available	NLA	USA Built Machines (Was p/n 0274970) (SN 0200150266 through 0200152825)	
	No Longer Available	NLA	Belgium Built Machines (Was p/n 0274970) (SN 1200007882 through 1200008481)	
		Ref	Australian, CE and Japanese Specs Options:	
	0272858	Ref	USA Built Machines (SN 0200135154 through 0200150265)	
	0272858	Ref	Belgium Built Machines (SN 1200004293 through	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	No Longer Available	NLA	1200007881) USA Built Machines (Was p/n 0274969) (SN 0200150266 through 0200152825)	
	No Longer Available	NLA	Belgium Built Machines (Was p/n 0274969) (SN 1200007882 through 1200008481)	
		Ref	Panel Carrier Installations, 2030ES and 2630ES:	
	0273437	Ref	ANSI, ANSI Export and CSA Specs	
	0272859	Ref	Australian, CE and Japanese Specs	
		Ref	Panel Carrier Installations, 2646ES and 3246ES:	
		Ref	ANSI, ANSI Export and CSA Specs Options:	
	0273438	Ref	USA Built Machines (SN 0200135154 through 0200151609)	
	0273438	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	
	0274980	Ref	USA Built Machines (SN 0200151610 through 0200152825)	
	0274980	Ref	Belgium Built Machines (SN 1200008265 through 1200008481)	
		Ref	Australian, CE and Japanese Specs Options:	
	0272860	Ref	USA Built Machines (SN 0200135154 through 0200151609)	
	0272860	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	
	0274981	Ref	USA Built Machines (SN 0200151610 through 0200152825)	
	0274981	Ref	Belgium Built Machines (SN 1200008265 through 1200008481)	
	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.	
	1001092073	2	Pipe Rack Assembly (was p/n 0240057)	
		Ref	Platform Latch - Magna-Latch Side Pull	
	1001135316	Ref	Platform Latch, 1930ES/2030ES/2630ES	
	1001135317	Ref	Platform Latch, 2646ES/3246ES	
		Ref	Platform Limit Switches and Rail Padding Installations	
		Ref	1930ES without Limit Switches	
	0272865	Ref	USA Built Machines (SN 0200135154 through 0200150265)	
	0272865	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	
	0275078	Ref	USA Built Machines (SN 0200150266 through 0200152825)	
	0275078	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	
		Ref	1930ES with Limit Switches	
	0274042	Ref	USA Built Machines (SN 0200135154 through 0200150265)	
	0274042	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	
	0275080	Ref	USA Built Machines (Non-UL Spec) (SN 0200150266 through 0200152825)	
	0275080	Ref	Belgium Built Machines (Non-UL Spec) (SN 1200007882 through 1200008481)	
	1001100029	Ref	USA Built Machines (UL Spec) (SN 0200150266 through 0200152825)	
	1001100029	Ref	Belgium Built Machines (UL Spec) (SN 1200007882 through 1200008481)	
	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	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	2646ES/3246ES without Limit Switches	
	0272867	Ref	USA Built Machines (SN 0200135154 through 0200151605)	
	0272867	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	
	0275076	Ref	USA Built Machines (Non-UL Spec) (SN 0200151606 through 0200152825)	
	0275076	Ref	Belgium Built Machines (Non-UL Spec) (SN 1200008265 through 1200008481)	
	1001092702	Ref	USA Built Machines (UL Spec) (SN 0200151606 through 0200152825)	
	1001092702	Ref	Belgium Built Machines(UL Spec) (SN 1200008265 through 1200008481)	
		Ref	2646ES/3246ES with Limit Switches	
	0274044	Ref	USA Built Machines (SN 0200135154 through 0200151605)	
	0274044	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	
	0275082	Ref	USA Built Machines (Non-UL Spec) (SN 0200151606 through 0200152825)	
	0275082	Ref	Belgium Built Machines (Non-UL Spec) (SN 1200008265 through 1200008481)	
	1001092701	Ref	USA Built Machines (UL Spec) (SN 0200151606 through 0200152825)	
	1001092701	Ref	Belgium Built Machines (UL Spec) (SN 1200008265 through 1200008481)	
		Ref	Platform Worklights Installations	
	0272850	Ref	Platform Worklights Installations, 1930ES (Without UL Specs)	
	0272851	Ref	Platform Worklights Installations, 2030ES (Without UL Specs)	
	0272852	Ref	Platform Worklights Installations, 2630ES (Without UL Specs)	
	0272853	Ref	Platform Worklights Installations, 2646ES/3246ES (Without UL Specs)	
	0275937	Ref	Platform Worklights Installations, 2646ES/3246ES (With UL Specs)	
	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)	
	0273859	Ref	Pressure Check Installation (All Specs Except Australian and CE Specs)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
		Ref	Tools for Service	
	7002821	1	Crimper, Wire	
	7002823	1	Extractor, Pin - Universal	
	4460467	AR	Extractor, Pin #16 Gauge	
	4460510	AR	Extractor, Pin #12 Gauge	
	7004275	1	Installer, Cylinder Seal - 1in	
	7004276	1	Installer, Cylinder Seal - 1 1/2in	
	7002826	1	Installer, Cylinder Seal - 2in	
	7016654	1	Screwdriver, Magnetic	
	7002822	1	Screwdriver, Potentiometer	
	7002828	1	Stripper, Wire	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	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.	
		Ref	Welder Installations (All Specs Except CE and U/L Specs)	
		Ref	Note: For Breakdown of this Accessory Refer to Accessories Manual p/n 3128160.	
	0272879	Ref	Welder Installations, 1930ES Complete Kit	
		Ref	Welder Installations, 1930ES Kit (Includes Fire Extinguisher and Power Cable Only)	
	0274154	Ref	USA Built Machines (SN 0200135154 through 0200150265)	
	0274154	Ref	Belgium Built Machines (SN 1200004293 through 1200007881)	
	0275072	Ref	USA Built Machines (SN 0200150266 through 0200152825)	
	0275072	Ref	Belgium Built Machines (SN 1200007882 through 1200008481)	
	0272880	Ref	Welder Installations, 2030ES Complete Kit	
	0274155	Ref	Welder Installations, 2030ES Kit (Includes Fire Extinguisher and Power Cable Only)	
	0272881	Ref	Welder Installations, 2630ES Complete Kit	
	0274156	Ref	Welder Installations, 2630ES Kit (Includes Fire Extinguisher and Power Cable Only)	
	0272882	Ref	Welder Installations, 2646ES/3246ES Complete Kit	
		Ref	Welder Installations, 2646ES/3246ES Kit (Includes Fire Extinguisher and Power Cable Only):	
	0274157	Ref	USA Built Machines (SN 0200135154 through 0200151605)	
	0274157	Ref	Belgium Built Machines (SN 1200004293 through 1200008264)	
	0275075	Ref	USA Built Machines (SN 0200151606 through 0200152825)	
	0275075	Ref	Belgium Built Machines (SN 1200008265 through 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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An Oshkosh Corporation Company

Corporate Office
JLG Industries, Inc.
1 JLG Drive
McConnellsburg PA. 17233-9533
USA

☎ (717) 485-5161

📠 (717) 485-6417

JLG Worldwide Locations

JLG Industries (Australia)
P.O. Box 5119
11 Boilwarra Road
Port Macquarie
N.S.W. 2444
Australia

☎ +61 2 65 81 1111

📠 +61 2 65 81 3058

JLG Latin American Ltda.
Rua Eng. Carlos Stevenson,
80-Suite 71
13092-310 Campinas - SP
Brazil

☎ +55 19 3 295 0407

📠 +55 19 3 295 1025

JLG Industries (UK) Ltd
Bentley House
Bentley Avenue
Middleton
Greater Manchester
M24 2GP - England

☎ +44 (0)161 654 1000

📠 +44 (0)161 654 1001

JLG France SAS
Z.I. de Baulieu
47400 Fauillet
France

☎ +33 (0)5 53 88 3170

📠 +33 (0)5 53 88 3179

JLG Deutschland GmbH
Max-Planck-Str. 21
D-27721 Rittterhude - Ihlpohl
Germany

☎ +49 (0)421 69 350 20

📠 +49 (0)421 69 350 45

JLG Equipment Services Ltd.
Rm 1107 Landmark North
39 Lung Sum Avenue
Sheung Shui N.T.
Hong Kong

☎ (852) 2639 5783

📠 (852) 2639 5797

JLG Industries (Italia) s.r.l.
Via P.O. 22
20010 Pregnana Milanese - MI
Italy

☎ +39 02 935 95210

📠 +39 02 935 95845

Oshkosh-JLG Singapore
Technology Equipment Pte Ltd
29 Tuas Ave 4,
Jurong Industrial Estate
Singapore, 639379

☎ +65-6591 9030

📠 +65-6591 9031

Plataformas Elevadoras
JLG Iberica, S.L.
Trapadella, 2
P.I. Castellbisbal Sur
08755 Castellbisbal, Barcelona
Spain

☎ +34 93 772 4700

📠 +34 93 771 1762

JLG Sverige AB
Enköpingsvägen 150
Box 704
SE-176 27 Jarfalla
Sweden

☎ +46 (0)850 659 500

📠 +46 (0)850 659 534

www.jlg.com