



# Illustrated Parts Manual

***Models***

***10VP***

***15VP***

***20VP***

**3120729**

*April 29, 2011*

***ANSI***



An Oshkosh Corporation Company



# REVISION LOG

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# REVISION LOG

# TABLE OF CONTENTS

FIGURE NO.	TITLE	PAGE NO.
<b>SECTION 1 - BASE</b>		<b>1-1</b>
1-1	BASE ASSEMBLY	1-2
1-2	REAR DRIVE ASSEMBLY	1-8
1-3	WHEEL DRIVE MOTOR ASSEMBLY	1-12
1-4	JLG POTHOLE PROTECTION INSTALLATION	1-14
<b>SECTION 2 - CONTROLS</b>		<b>2-1</b>
2-1	GROUND CONTROL/POWER PACK INSTALLATIONS	2-2
2-2	PLATFORM CONTROLS AND CABLES INSTALLATIONS	2-6
2-3	BATTERY CHARGER ASSEMBLY	2-10
2-4	PUMP/MOTOR/TANK ASSEMBLY	2-12
2-5	CONTROL BOX ASSEMBLY	2-14
2-6	OPTION INSTALLATIONS	2-16
<b>SECTION 3 - MAST</b>		<b>3-1</b>
3-1	MAST ASSEMBLY - 10VP	3-2
3-2	MAST ASSEMBLY - 15VP	3-6
3-3	MAST ASSEMBLY - 20VP	3-10
3-4	MAST MOUNTED COMPONENTS	3-14
<b>SECTION 4 - PLATFORM</b>		<b>4-1</b>
4-1	MOLDED PLATFORM INSTALLATION (PRIOR TO S/N 02370)	4-2
4-2	MOLDED PLATFORM INSTALLATION (S/N 02370 TO PRESENT)	4-6
4-3	QUICK-CHANGE PLATFORM INSTALLATION WITH SLIDE RAIL ENTRY	4-10
4-4	QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (PRIOR TO S/N 02256)	4-12
4-5	QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (S/N 02256 TO PRESENT)	4-16
4-6	QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (PRIOR TO S/N 02256)	4-20
4-7	QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (S/N 02256 TO PRESENT)	4-24
4-8	OPTIONAL PLATFORM COMPONENTS INSTALLATION	4-28
<b>SECTION 5 - CYLINDER</b>		<b>5-1</b>
5-1	LIFT CYLINDER ASSEMBLY	5-2
<b>SECTION 6 - HYDRAULICS</b>		<b>6-1</b>
6-1	HYDRAULIC DIAGRAM	6-2
<b>SECTION 7 - ELECTRICAL</b>		<b>7-1</b>
7-1	ELECTRICAL SCHEMATIC (PRIOR TO S/N 01491)	7-2
7-2	ELECTRICAL SCHEMATIC (S/N 01491 TO PRESENT)	7-3
7-3	ELECTRICAL SCHEMATIC (UL/EE MACHINES)	7-4
7-4	HARNES AND CABLES INSTALLATION (STANDARD MACHINES)	7-6
7-5	HARNES AND CABLES INSTALLATION (EE MACHINES) (S/N 03094 TO PRESENT)	7-12

# TABLE OF CONTENTS

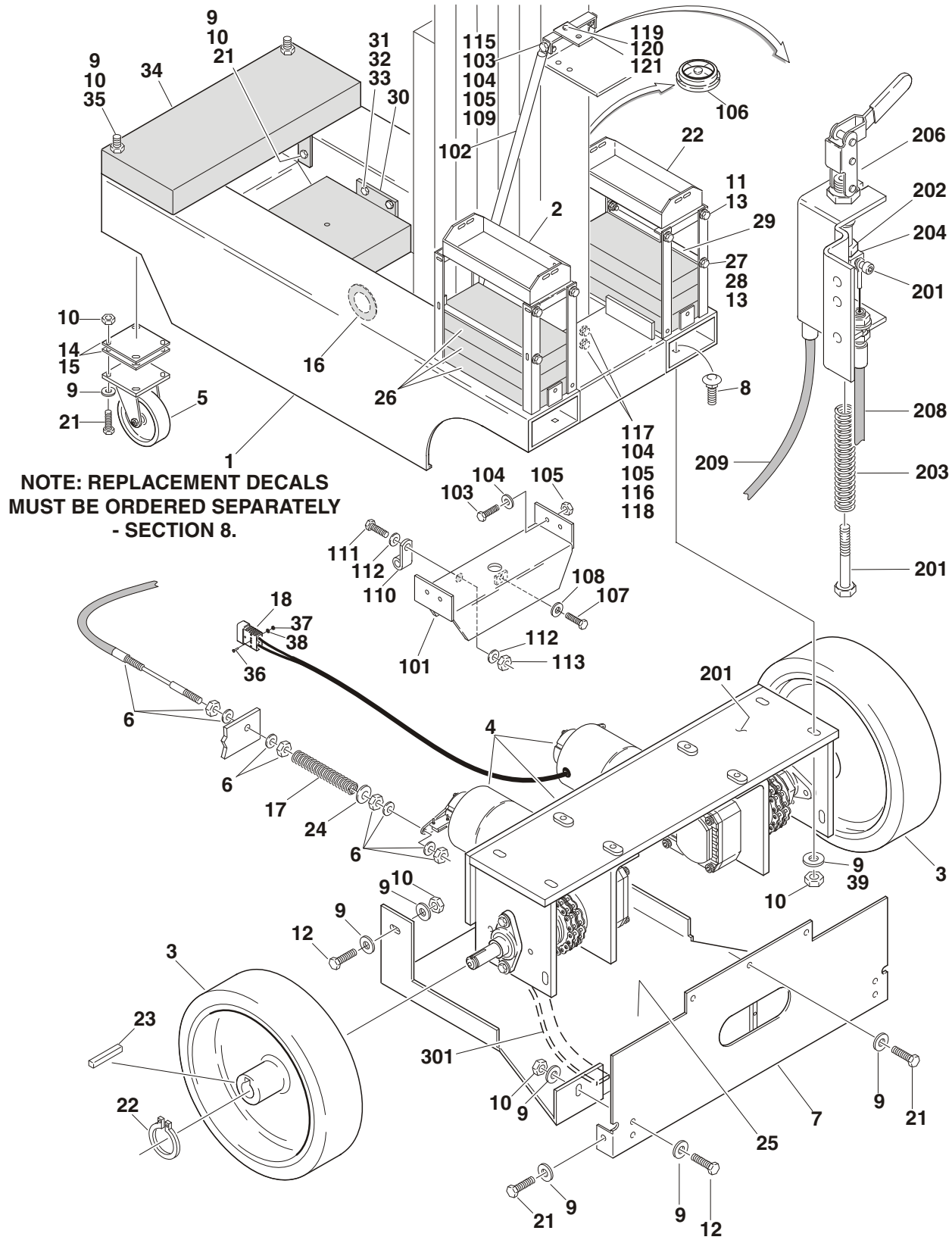
FIGURE NO.	TITLE	PAGE NO.
<b>SECTION 8 - DECALS</b> .....		<b>8-1</b>
8-1	DECALS INSTALLATION .....	8-2
<b>SECTION 9 - RECOMMENDED SERVICE PARTS STOCK</b> .....		<b>9-1</b>
<b>SECTION 10 - SPECIAL OPTIONS</b> .....		<b>10-1</b>
<b>SECTION 11 - PART NUMBER INDEX</b> .....		<b>11-1</b>

# SECTION 1 BASE

TABLE OF CONTENTS		
FIGURE	DESCRIPTION	PAGE
1-1	BASE ASSEMBLY .....	1-2
1-2	REAR MOTOR ASSEMBLY .....	1-8
1-3	WHEEL DRIVE MOTOR ASSEMBLY .....	1-12
1-4	JLG POTHOLE PROTECTION INSTALLATION .....	1-14

# SECTION 1 BASE

FIGURE 1-1. BASE ASSEMBLY



NOTE: REPLACEMENT DECALS  
MUST BE ORDERED SEPARATELY  
- SECTION 8.



# SECTION 1 BASE

**FIGURE 1-1. BASE ASSEMBLY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>BASE ASSEMBLY OPTIONS:</b>	Ref.	
	0257230	<b>10VP (Standard &amp; CSA Machines)</b>	Ref.	8
	0257229	<b>15VP (Standard Machines)</b>	Ref.	8
	0257237	<b>15VP (CSA Machines)</b>	Ref.	8
	0257228	<b>20VP (Standard Machines)</b>	Ref.	8
	0257239	<b>20VP (CSA Machines) (Prior to S/N 02348)</b>	Ref.	4
	0258693	<b>20VP (CSA Machines) (S/N 02348 to Present)</b>	Ref.	4/B
1		Base Weldment Options:	1	
	4845561	Prior to S/N 02369		
	4845877	S/N 02369 to Present		
2		Battery Box Weldment Options:	1	
	4845258	Prior to S/N 02369		
	4845875	S/N 02369 to S/N 03094		
3	4860175	Wheel, Rear Assembly	2	
	7019659	Steel Insert (1 Per Assembly)	2	
4		Drive Assembly - Rear (See Figure 1-2 for Breakdown) Options:	1	
	0257241	Prior to S/N 02363		
	0258718	S/N 02363 to Present		
5	4860177	Wheel, Caster Assembly	2	
	7019660	Axle 1/2" x 3 1/4" (1 Per Assembly)	2	
	7019661	Wheel, Replacement (1 Per Assembly)	2	
	7019662	Caster without Wheel (1 Per Assembly)	2	
	7019663	Bearing, Wheel (1 Per Assembly)	2	
6	1060658	Cable, Brake Assembly (See Items for 201-211 Breakdown)	1	
7	4845474	Rear Plate Weldment	1	
8	0630446	Bolt 3/8"-16NC x 1" (Carriage)	4	
9	4751600	Flatwasher 3/8" Wide	A/R	
10	3311605	Locknut 3/8"-16NC	16	
11		Bolt Options:	A/R	
	0641406	Bolt 1/4"-20NC x 3/4" (Prior to S/N 02369)		
	0641508	Bolt 5/16"-18NC x 1" (S/N 02369 to S/N 03094)		
12	0641609	Bolt 3/8"-16NC x 1 1/8"	12	
13		Flatwasher Options:	A/R	
	4751400	Flatwasher 1/4" Wide (Prior to S/N 02369)		
	4751500	Flatwasher 5/16" Wide (S/N 02369 to S/N 03094)		
14	3539659	Plate, Spacer 1/8"	1	
15	3539660	Plate, Spacer 5/64"	1	
16	2820086	Loom, Wire	4in/10cm	
17	4160164	Spring, Compression	2	
18	4460648	Connector, Terminal	2	
19	3020017	Grease, Multi-Purpose (Not Shown)	A/R	
20	0100011	Compound, Locking (Not Shown)	A/R	
21	0641608	Bolt 3/8"-16NC x 1"	5	

# SECTION 1 BASE

SECTION 1 BASE

**FIGURE 1-1. BASE ASSEMBLY (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
22		Options:	A/R	
	3760393	Ring, Retainer (Prior to S/N 02363)	2	
	4845878	Battery Box Cover - Right (S/N 02369 to S/N 03094)	1	
23		Options:	A/R	
	2860026	Key, Wheel (Prior to S/N 02363)	2	
	3311505	Locking Nut 5/16"-18NC (S/N 02369 to S/N 03094)	6	
24		Options:	A/R	
	4751000	Flatwasher #10 Wide (Prior to S/N 01703)	2	
	4740430	Flatwasher, Fender (S/N 01703 to Present)	2	
25	3570172	Cover, Motor	1	
26		Counterweight Weldment Options:	A/R	
	Not Required	10VP	0	
	4845260	15VP (Prior to S/N 02369)	2	
	4845879	15VP (S/N 02369 to Present)	2	
	4845261	20VP (Prior to S/N 02369)	2	
	4845876	20VP (S/N 02369 to Present)	2	
27	0641408	Bolt 1/4"-20NC x 1" (Prior to S/N 02369)	A/R	
28	3311405	Locknut 1/4"-20NC (Prior to S/N 02369)	A/R	
29		Counterweight Bracket Options:	A/R	
	Not Required	10VP & 20VP	0	
	0902256	15VP (Standard Machines)	2	
	0902256	15VP (CSA Machines) (Prior to S/N 02369)	1	
	Not Required	15VP (CSA Machines) (S/N 02369 to Present)	0	
30		Counterweight Weldment Options:	A/R	
	Not Required	10VP & 15VP	0	
	4845291	20VP	1	
31	0641810	Bolt 1/2"-13NC x 1 1/4"	A/R	
32	3311805	Locknut 1/2"-13NC	A/R	
33	4751800	Flatwasher 1/2"	A/R	
34		Counterweight Bracket Options:	A/R	
	Not Required	10VP, 15VP & 20VP (Standard Machines)	0	
	Not Required	10VP & 20VP (CSA Machines)	0	
	4845401	15VP (CSA Machines)	1	
35	0630512	Bolt, Carriage	A/R	
36	3910620	Screw #6-32NC x (S/N 03094 to Present)	4	
37	3310601	Nut #6-32NC (S/N 03094 to Present)	8	
38	4750600	Flatwasher #6 (S/N 03094 to Present)	4	
39	4711600	Flatwasher 3/8" (Standard Machines) (S/N 03609 to Present)	8	

# SECTION 1 BASE

**FIGURE 1-1. BASE ASSEMBLY (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>MAST SUPPORT INSTALLATION OPTIONS:</b>	Ref.	
	0256197	<b>STANDARD MACHINES (Prior to S/N 02289)</b>	Ref.	4/C
	0258582	<b>STANDARD MACHINES (S/N 02289 to Present)</b>	Ref.	1/A
	0256793	<b>CSA MACHINES (Prior to S/N 02289)</b>	Ref.	3/C
	0258583	<b>CSA MACHINES (S/N 02289 to Present)</b>	Ref.	2/B
101		Channel, Lift Cylinder Mounting Options:	1	
	4845478	Prior to S/N 02289		
	4845804	S/N 02289 to Present		
102		Brace, Mast Options:	2	
	0880124	Standard Machines		
	0880125	CSA Machines		
103	0641609	Bolt 3/8"-16NC x 1 1/8"	A/R	
104	4751600	Flatwasher 3/8" Wide	24	
105	3311605	Locknut 3/8"-16NC	12	
106	2420140	Gauge, Level	1	
107	0641505	Bolt 5/16"-18NC x 5/8"	1	
108	4711500	Flatwasher 5/16" Narrow	1	
109	0641612	Bolt 3/8"-16NC x 1 1/2"	1	
110	1320041	Clamp	1	
111	0641404	Bolt 1/4"-20NC x 1/2"	1	
112	4711400	Flatwasher 1/4" Narrow	2	
113	3311401	Nut 1/4"-20NC	1	
114	0100011	Compound, Locking (Not Shown)	A/R	
115		Shim - .03 Options:	A/R	
	Not Required	Standard Machines	0	
	4700952	CSA Machines	1	
116		Shim - .03 Options:	A/R	
	Not Required	Standard Machines	0	
	4700953	CSA Machines	2	
117	0641612	Bolt 3/8"-16NC x 1 1/2"	2	
118		Shim - .06 Options:	A/R	
	Not Required	Standard Machines	0	
	4700954	CSA Machines	6	
119		Plate, Hood Mount Options:	A/R	
	Not Required	Standard Machines	0	
	3570094	CSA Machines	1	
120		Flatwasher 1/4" Options:	A/R	
	Not Required	Standard Machines	0	
	4751400	CSA Machines	1	
121		Bolt 1/4"-20NC x 3/4" Options:	A/R	
	Not Required	Standard Machines	0	
	0641406	CSA Machines	1	

# SECTION 1 BASE

SECTION 1 BASE

**FIGURE 1-1. BASE ASSEMBLY (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	1060658	<b>BRAKE CABLE ASSEMBLY</b>	Ref.	3/C
201	0641528	Bolt 5/16"-18NC x 3 1/2"	1	
202	3311501	Nut 5/16"-18NC	1	
203	4160166	Spring, Compression	1	
204	0561284	Bar, Aluminum	1	
205	3900248	Bolt 1/4"-20NC x 1/4"	2	
206	2560150	Handle, Brake Cable	1	
207	3570382	Bracket, Brake Cable	1	
208	1060661	Cable, Brake	1	
209	1060662	Cable, Brake	1	
210	0100019	Compound, Locking (Not Shown)	A/R	
211	0100035	Compound, Locking (Not Shown)	A/R	
	0270352	<b>STATIC STRAP INSTALLATION</b>	Ref.	1/A
301	0641608	Bolt 3/8"-16NC x 1"	1	
	3311605	Locknut 3/8"-16NC	1	
	4751600	Flatwasher 3/8"	2	
	4240084	Strap, Static	1	

# SECTION 1 BASE

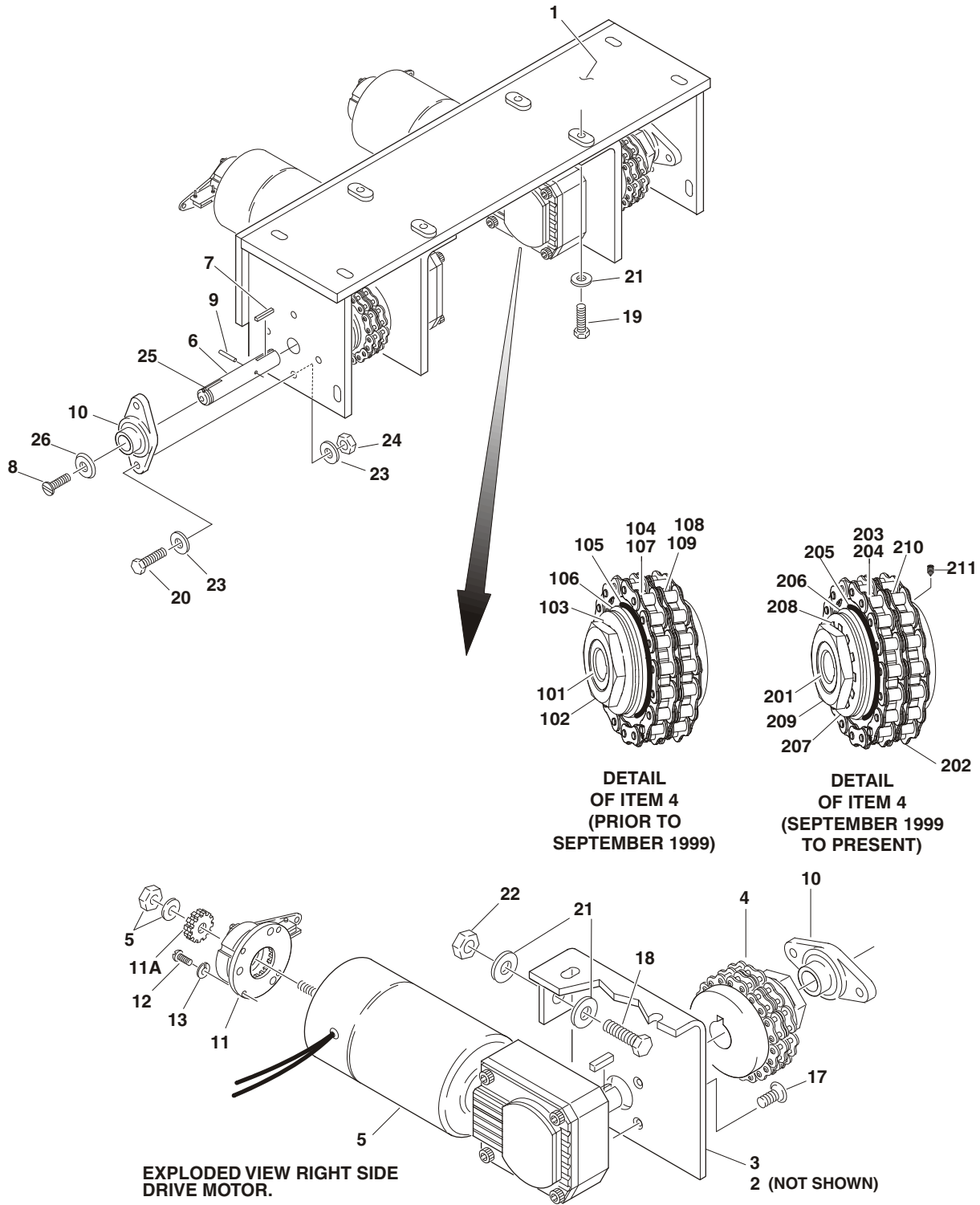
FIGURE 1-1. BASE ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 1 BASE

FIGURE 1-2. REAR DRIVE ASSEMBLY



# SECTION 1 BASE

**FIGURE 1-2. REAR DRIVE ASSEMBLY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>REAR DRIVE ASSEMBLY OPTIONS:</b>	Ref.	
	0257241	<b>Prior to S/N 02363</b>	Ref.	3/C
	0258718	<b>S/N 02363 to Present</b>	Ref.	1/B
1	4845473	Weldment, Drive	1	
2	3570168	Plate, Motor Mount (Left)	1	
3	3570169	Plate, Motor Mount (Right)	1	
4	1400126	Clutch, Torque Limiting Options: Dalton Brand Clutch, Torque Limiting (See Items 101-109 for Breakdown) (Prior to September 1999) EPT Brand Clutch, Torque Limiting (See Items 201-211 for Breakdown) (September 1999 to Present)	2	
5		Wheel Drive Motor Assembly (See Figure 1-3 for Breakdown) Options:	2	
	3160217	Prior to S/N 02363		
	3160234	S/N 02363 to Present		
6		Shaft, Drive Options:	2	
	4040259	Prior to S/N 02363		
	4040268	S/N 02363 to Present		
7	2860027	Key, Clutch	2	
8	0741609	Bolt 3/8"-16NC x 1 1/8"	2	
9	3440520	Pin, Roll	2	
10	0440221	Bearing, Flange	4	
11	0256851	Brake Assembly	2	
	7014117	Switch, Micro (1 Per Assembly)	2	
	7014118	Disc, Friction (1 Per Assembly)	2	
11A	7014119	Gear (1 Per Assembly)	2	
	7014120	Setscrew (2 Per Assembly)	4	
12	3930808	Bolt #8-32NC x 1/2"	8	
13	4750800	Flatwasher #8	8	
14	0100035	Compound, Locking (Not Shown)	A/R	
15	0100011	Compound, Locking (Not Shown)	A/R	
16	0100019	Compound, Locking (Not Shown)	A/R	
17	3900221	Bolt 5/16"-18NC x 3/4"	6	
18	0641610	Bolt 3/8"-16NC x 1 1/4"	2	
19	0641609	Bolt 3/8"-16NC x 1 1/8"	4	
20	0641711	Bolt 7/16"-14NC x 1 3/8"	8	
21	4751600	Flatwasher 3/8"	8	
22	3311605	Locknut 3/8"-16NC	2	
23	4711700	Flatwasher 7/16"	16	
24	3311705	Locknut 7/16"-14NC	8	
25	2860029	Key, Wheel	2	
26	4740478	Washer, Wheel Retainer	2	

# SECTION 1 BASE

SECTION 1 BASE

**FIGURE 1-2. REAR DRIVE ASSEMBLY (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	1400126	<b>TORQUE LIMITER CLUTCH ASSEMBLY (DALTON BRAND) (PRIOR TO SEPTEMBER 1999)</b>	Ref.	A
101	7016689	Hub	1	
102	7016683	Nut, Adjusting	1	
103	7016684	Spring	1	
104	7016685	Bearing	1	
105	7016691	Facing, Friction	2	
106	7016690	Plate, Pressure	1	
107	7016686	Sprocket	1	
108	7016687	Coupling, Chain	1	
109	7016688	Sprocket	1	
	1400126	<b>TORQUE LIMITER CLUTCH ASSEMBLY (EPT BRAND) (SEPTEMBER 1999 TO PRESENT)</b>	Ref.	C
201	7023351	Hub	1	
202	7023352	Chain	1	
203	7023353	Sprocket	1	
204	7023354	Bushing	1	
205	7023355	Facing, Friction	2	
206	7023356	Plate, Pressure	1	
207	7023357	Disc, Spring	3	
208	7023358	Lockwasher, Tabbed	1	
209	7023359	Nut, Adjusting	1	
210	7023360	Sprocket	1	
211	7023361	Setscrew	1	



# SECTION 1 BASE

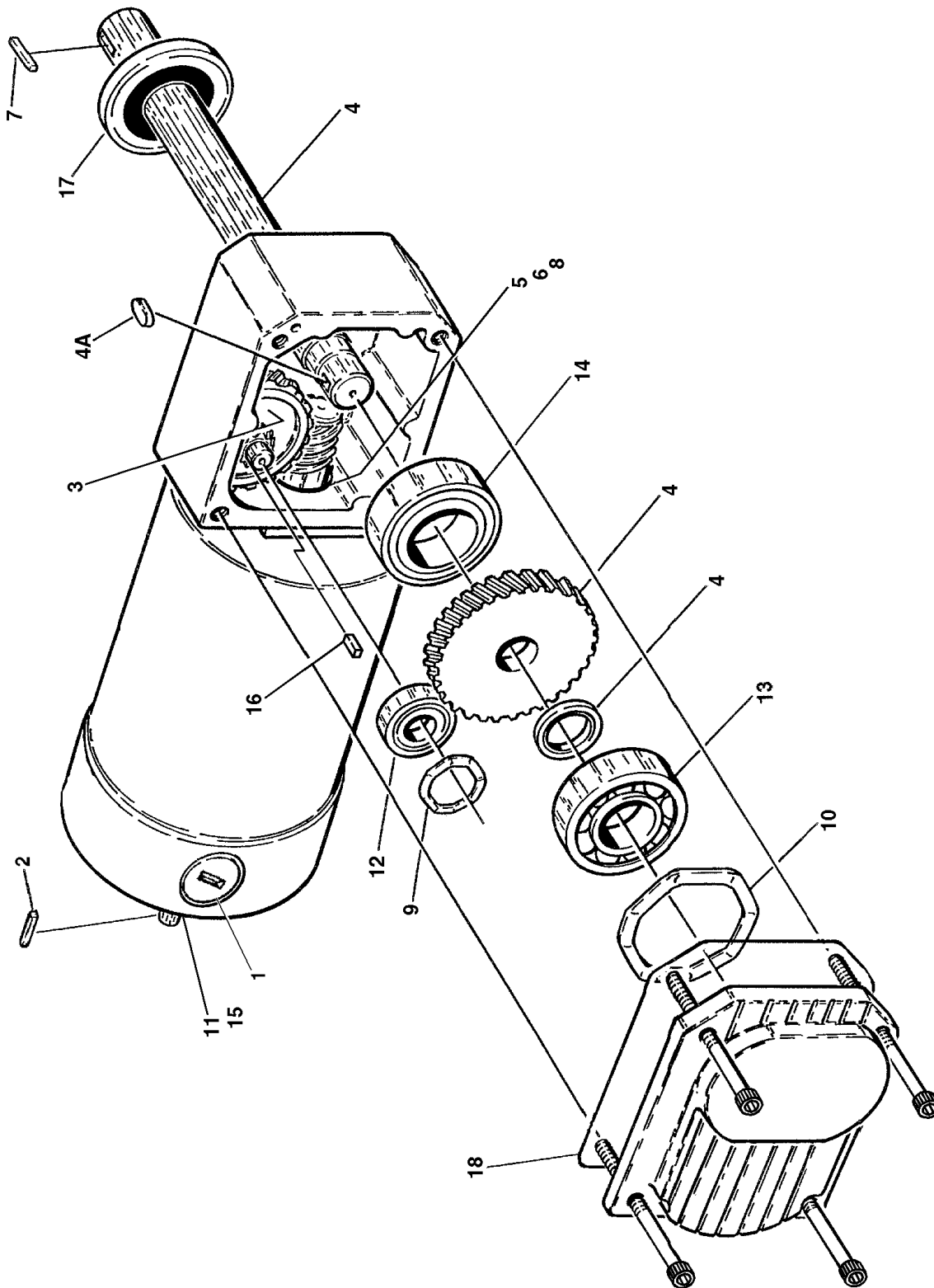
FIGURE 1-2. REAR DRIVE ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 1 BASE

FIGURE 1-3. WHEEL DRIVE MOTOR ASSEMBLY



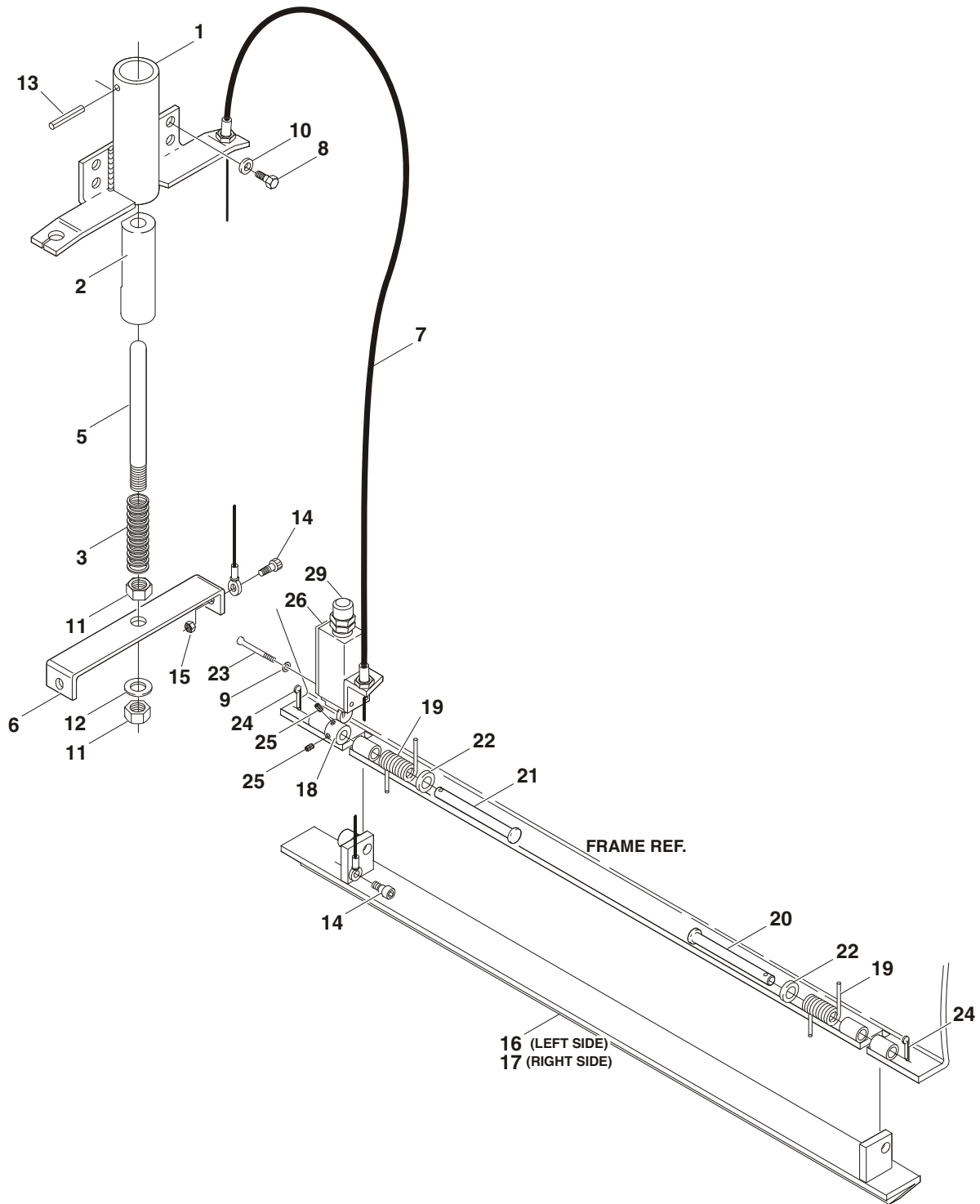
# SECTION 1 BASE

**FIGURE 1-3. WHEEL DRIVE MOTOR ASSEMBLY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>DRIVE MOTOR ASSEMBLY OPTIONS:</b>	Ref.	
	3160217	<b>Prior to S/N 02363</b>	Ref.	D
	3160234	<b>S/N 02363 to Present</b>	Ref.	C
1	7018000	Brush Kit	1	
	7018044	Holder, Brush	1	
2	7018001	Key, Shaft	1	
3	7018002	Gear and Pinion Assembly	1	
4	7018019	Gear and Drive Shaft	1	
4A	7018007	Key, Shaft	1	
5	7018018	Seal, Lip	1	
6	7018005	Ring, Retaining	1	
7	2860028	Shaft, Key	1	
8	7018008	Bearing	2	
9	7018009	Washer, Wave	1	
10	7018010	Washer, Wave	1	
11	7018011	Washer, Wave	1	
12	7018012	Bearing 32mm x 12mm x 10mm	2	
13	7018013	Bearing 47mm x 20mm x 14mm	1	
14	7018014	Bearing 47mm x 25mm x 12mm	1	
15	7018027	Bearing	1	
16	7018015	Shaft, Key	1	
17	7018026	Seal, Lip	1	
18		O-Ring Options:	1	
	Not Required	Prior to S/N 02363		
	7018028	S/N 02363 to Present		

# SECTION 1 BASE

**FIGURE 1-4. JLG POTHOLE PROTECTION INSTALLATION**



# SECTION 1 BASE

**FIGURE 1-4. JLG POTHOLE PROTECTION INSTALLATION**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0257490	<b>JLG POTHOLE PROTECTION INSTALLATION</b>	Ref.	2/B
1	4845507	Actuator Weldment	1	
2	4567203	Tube, Sleeve	1	
3	4160160	Spring, Compression	1	
4	3020022	Grease, Lithium (with PTFE) (Not Shown)	A/R	
5	3841343	Rod, Actuator	1	
6	3570230	Plate, Cable Attach	1	
7	1060649	Cable	2	
8	0641405	Bolt 1/4"-20NC x 5/8"	4	
9	4750600	Flatwasher #6	4	
10	4711400	Flatwasher 1/4" Narrow	4	
11	3312002	Nut, Jam 5/8"-11NC	2	
12	4712000	Flatwasher 5/8" Narrow	1	
13	3440418	Rollpin 1/8" 1 1/8"	1	
14	3900202	Screw, Shoulder 1/4"-20NC x 1/4"	4	
15	3311005	Locknut #10-24NC	2	
16	4845508	Bar, Pothole (Left Side)	1	
17	4845509	Bar, Pothole (Right Side)	1	
18	1100103	Cam	2	
19	4160162	Spring, Torsion	4	
20	3430630	Pin, Clevis 3/8" x 3 3/4"	2	
21	3430638	Pin, Clevis 3/8" x 4 3/4"	2	
22	4751600	Flatwasher 3/8"	4	
23	3910620	Screw #6-32NC x 1 1/4"	4	
24	3450403	Pin, Cotter 1/8" x 3/4"	4	
25	3900249	Setscrew #10-32NC x 3/16"	4	
26	4360456	Switch, Limit	2	
27	0100035	Compound, Locking (Not Shown)	A/R	
28	0100011	Compound, Locking (Not Shown)	A/R	
29	4460662	Connector, Strain Relief	2	

# SECTION 1 BASE

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FIGURE 1-4. JLG POTHOLE PROTECTION INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

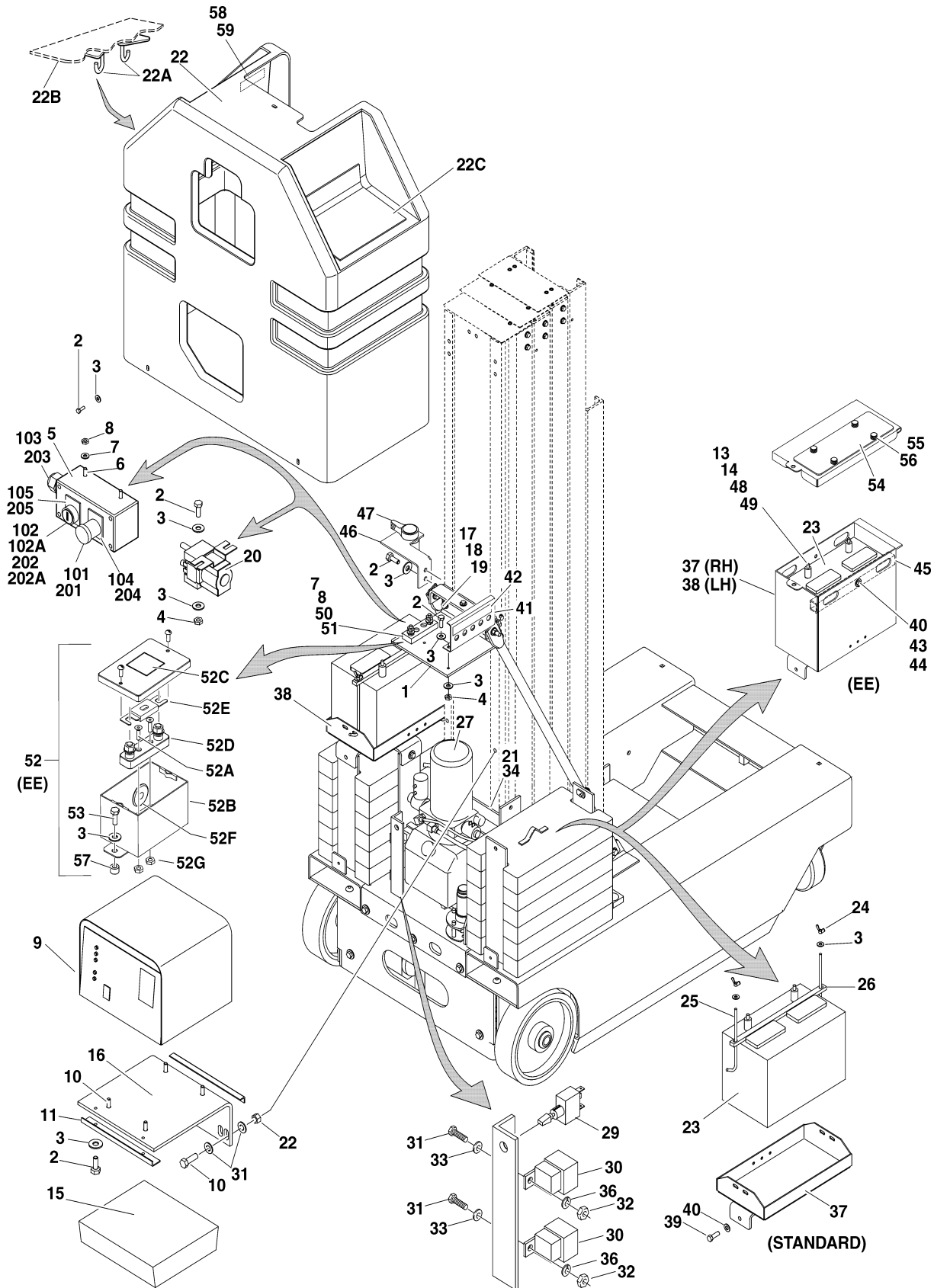
# SECTION 2 CONTROLS

TABLE OF CONTENTS		
FIGURE	DESCRIPTION	PAGE
2-1	GROUND CONTROL/POWER PACK INSTALLATIONS . . . . .	2-2
2-2	PLATFORM CONTROLS AND CABLES INSTALLATIONS . . . . .	2-6
2-3	BATTERY CHARGER ASSEMBLIES . . . . .	2-10
2-4	PUMP/MOTOR/TANK ASSEMBLY . . . . .	2-12
2-5	CONTROL BOX ASSEMBLY . . . . .	2-14
2-6	OPTION INSTALLATIONS . . . . .	2-16

# SECTION 2 CONTROLS

FIGURE 2-1. GROUND CONTROL/POWER PACK INSTALLATIONS

SECTION 2 CONTROLS





# SECTION 2 CONTROLS

**FIGURE 2-1. GROUND CONTROL/POWER PACK INSTALLATIONS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>GROUND CONTROL/POWER PACK INSTALLATIONS</b>	Ref.	
	0256143	<b>Machines With Wet Batteries</b>	Ref.	15
	0258008	<b>Machines With Dry Batteries</b>	Ref.	7
	0256928	<b>CSA Spec Machines (Additional Components)</b>	Ref.	
	0270167	<b>(EE) Spec Machines (S/N 03094 to Present)</b>	Ref.	5
1		Bracket, Ground Controls Options:	1	
	0902248	(Standard) (Prior to S/N 03094)		
	0902643	(Standard) (S/N 03094 to Present)		
	0902649	(EE) (S/N 03094 to Present)		
	3570094	Plate, Hood Mounting (CSA Only) (Not Shown - Located on Top of Item #1)	1	
2	0641406	Bolt 1/4"-20NC x 3/4"	9	
3	4751400	Flatwasher 1/4" Wide	19	
4	3311405	Locknut 1/4"-20NC	2	
5		Ground Control Assembly (See Items 101-105 For Breakdown) Options:	1	
	0861039	Prior to S/N 02862		
	0861291	S/N 02862 to S/N 03094		
	0861355	S/N 03094 to S/N 03905		
	0861291	S/N 03905 to Present		
6		Screw, Machine Options:	4	
	3910812	Prior to S/N 03094 - #8-32NC x 3/4"		
	0721006	S/N 03094 to Present - #10-24NC x 3/4"		
7		Flatwasher Options:	A/R	
	4750800	Prior to S/N 03094 - Flatwasher #8		
	4751000	S/N 03094 to Present - Flatwasher #10		
8		Locknut Options:	A/R	
	3310805	Locknut #8-32NC (Prior to S/N 02315)		
	3300392	Locknut #8-32NC (Brass) (S/N 02315 to S/N 03094)		
	3311005	Locknut #10-24NC (S/N 03094 to Present)		
9	Not Used			
10	0741407	Screw, Flathead 1/4"-20NC x 7/8"	4	
11	0181857	Angle, Controller Mount	1	
12	3311601	Nut 3/8"-16NC (EE Machines Only)	2	
13	3311501	Nut 5/16"-18NC (EE Machines Only)	2	
14	0100011	Compound, Locking (Not Shown)	A/R	
15	1600238	Controller Assembly (Prior to S/N 02996)	1	
	2900868	Controller Configuration Kit	1	
	1600305	Controller Assembly (S/N 02996 to Present)	1	
	2900868	Controller Configuration Kit	1	
16	0902250	Bracket, Battery Charger	1	
17	0641608	Bolt 3/8"-16NC x 1"	10	
18	4751600	Flatwasher 3/8"	20	
19	3311605	Locknut 3/8"-16NC	10	
20		Relay, 100Amp Options:	1	
	3740120	Prior to S/N 02315		
	3740130	S/N 02315 to Present		

**SECTION 2 CONTROLS**

# SECTION 2 CONTROLS

**FIGURE 2-1. GROUND CONTROL/POWER PACK INSTALLATIONS**

**SECTION 2 CONTROLS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
21	3539565	Plate, Pump Mounting	1	
22	2680432	Hood	1	
22A	2700080	Hook	2	
22B	7023342	Lid	1	
22C	7023341	Lid	1	
23	0400122	Battery (Wet)	2	
	0400144	Battery (Dry)	2	
24	3300202	Wingnut (Not Required On (EE) Machines)	4	
25	0630504	Bolt, Battery Hold Down (Not Required On (EE) Machines)	4	
26	0362658	Bar, Battery Hold Down (Not Required On (EE) Machines)	2	
27	Not Used			
28	4845266	Bracket, Brake Release (Prior to S/N 01577)	1	
29	4360314	Switch, Ground	1	
30	3740069	Relay, Power 24VDC	2	
31	3911010	Screw	2	
32	3311001	Nut #10-24NC	2	
33	4751000	Flatwasher #10 Wide	4	
34	0741605	Screw, Countersunk 3/8"-16NC x 5/8"	2	
35	0100051	Grease Battery (Not Shown)	A/R	
36	4761000	Lockwasher #10	2	
37		Battery Box - Right Options:	1	
	4845875	Standard Machines (S/N 03094 to Present)		
	0270299	(EE) Machines (S/N 03094 to Present)		
	3572654	(EE) Machines (Battery Box Lid)		
38		Battery Box - Left Options:	1	
	4845878	Standard Machines (S/N 03094 to Present)		
	0270298	(EE) Machines (S/N 03094 to Present)		
	3572653	(EE) Machines (Battery Box Lid)		
39	0641508	Bolt 5/16-18NC x 1"	6	
40	4751500	Flatwasher 5/16"	6	
41	3380453	Panel, Breaker (EE Machines Only)	1	
42	1704584	Decal - Breaker Panel (EE Machines Only)	1	
43	0641512	Bolt 5/16"-18NC x 1 1/2"	2	
44	3311505	Locknut 5/16"-18NC	2	
45	4568103	Bar, Battery Hold Down (EE Machines Only)	2	
46	0902657	Bracket, Battery Disconnect (EE Machines Only)	1	
47	4360256	Switch, Master Disconnect (EE Machines Only)	1	
48	4761500	Lockwasher 5/16"	2	
49	4761600	Lockwasher 3/8"	2	
50	2400044	Fuse Mounting Block (EE Machines Only) (Prior to S/N 03682)	1	
51	0741008	Flathead Screw #10-24NC x 1" (EE Machines Only) (Prior to S/N 03682)	2	
52	0861381	Fuse Box Assembly (EE Machines Only) (S/N 03682 to Present)	1	B
52A	0741006	Screw #10-24NC x 3/4"	2	
52B	0861380	Box, Fuse (EE)	1	
52C	1704713	Decal - Fuse	1	
52D	2400044	Fuse Mounting Block	1	

# SECTION 2 CONTROLS

**FIGURE 2-1. GROUND CONTROL/POWER PACK INSTALLATIONS**

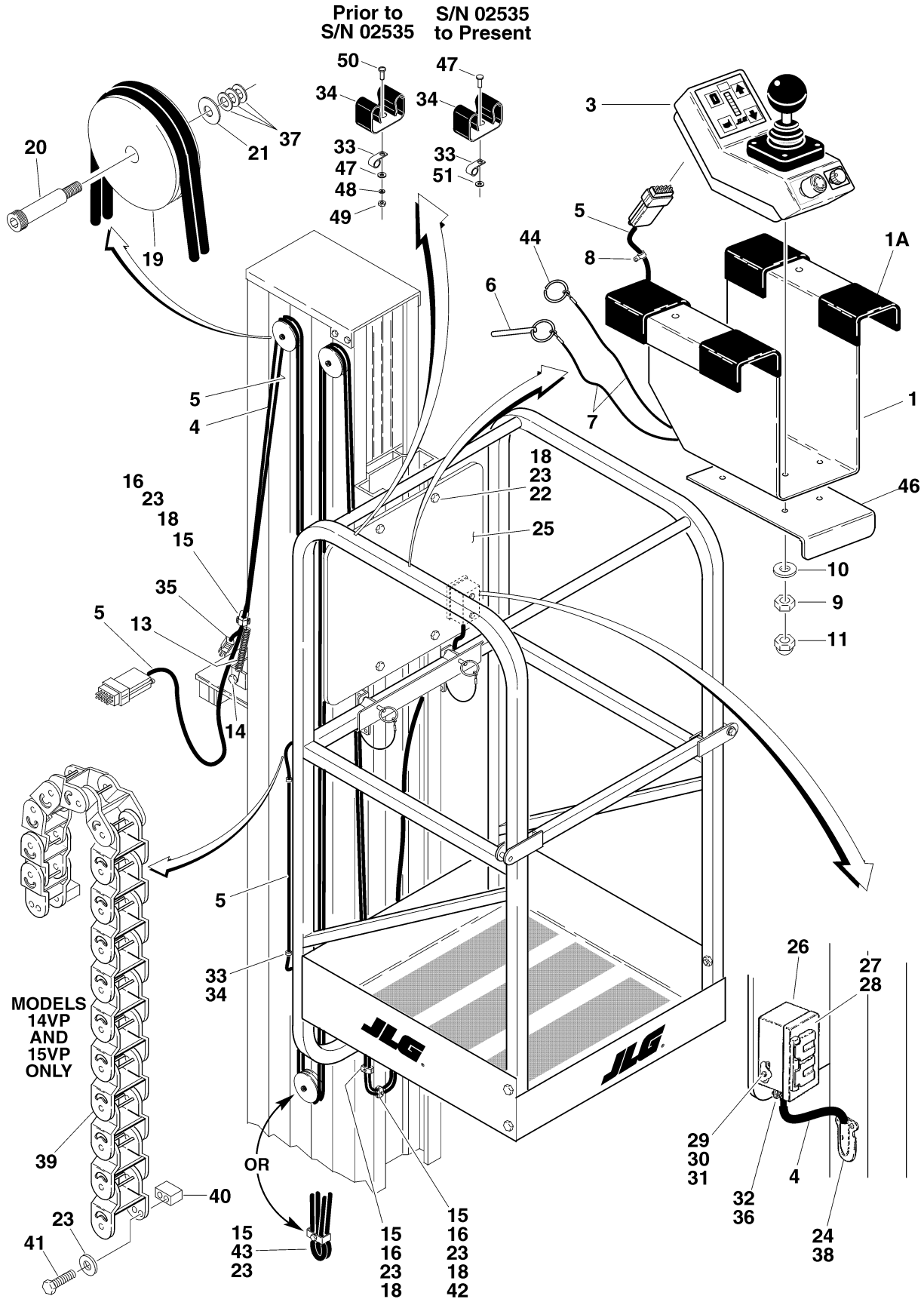
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
52E	2400045	Fuse, 80Amp	1	
52F	2540040	Grommet, Rubber	2	
52G	3311005	Locknut #10-24NC	2	
53	0641408	Bolt 1/4"-20NC x 1" (EE Machines Only) (S/N 03682 to Present)	2	
54	3572651	Plate, Battery Access (EE Machines Only) (S/N 03682 to Present)	2	
55	1380138	Clip, Receptial (EE Machines Only) (S/N 03682 to Present)	8	
56	3900174	Screw (EE Machines Only) (S/N 03682 to Present)	8	
57	0962346	Bushing, Spacer (EE Machines Only) (S/N 03682 to Present)	2	
58	1704679	Decal - Battery Disconnect (EE Machines Only) (S/N 03887 to Present)		
59	3820006	Pop Rivet (EE Machines Only) (S/N 03887 to Present)	4	
	0861039	<b>GROUND CONTROL ASSEMBLY (PRIOR TO S/N 02862)</b>	Ref.	A
101	7017701	Switch, Push-Turn to Reset (Emergency Stop)	1	
	7017703	Block, Contact - N.C.	2	
	7017715	Button - Red	1	
102	7017700	Switch - Key (Lift)	1	
	7017702	Block, Contact - N.C.	2	
102A	7017704	Key, Replacement	1 set	
103		Strain Relief Connector Options:	1	
	7012637	Connector, Strain Relief (CG16)		
	7017713	Connector, Strain Relief (CG20)		
104	7017706	Nameplate - Emergency Stop	1	
105	7017705	Nameplate - Select	1	
	0861291	<b>GROUND CONTROL ASSEMBLY (S/N 02862 TO S/N 03094)</b>	Ref.	A
	0861355	<b>GROUND CONTROL ASSEMBLY (S/N 03094 TO S/N 03905)</b>	Ref.	A
	0861291	<b>GROUND CONTROL ASSEMBLY (S/N 03905 TO PRESENT)</b>	Ref.	A
201	7020078	Switch, Push-Turn to Reset (Emergency Stop)	1	
202	4360471	Switch - Key (Lift)	1	
202A	7020174	Key, Replacement	1 set	
203	4460633	Strain Relief Connector	1	
204	7020096	Nameplate - Emergency Stop	1	
205	7020267	Nameplate - Select	1	

**SECTION 2 CONTROLS**

# SECTION 2 CONTROLS

FIGURE 2-2. PLATFORM CONTROLS AND CABLES INSTALLATIONS

SECTION 2 CONTROLS



# SECTION 2 CONTROLS

**FIGURE 2-2. PLATFORM CONTROLS AND CABLES INSTALLATIONS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PLATFORM CONTROLS AND CABLES INSTALLATIONS</b>	Ref.	
	0257619	<b>10 VP (Standard)</b>	Ref.	9
	0270166	<b>10 VP (EE)</b>	Ref.	2
	0257618	<b>15 VP (Standard)</b>	Ref.	9
	0270168	<b>15 VP (EE)</b>	Ref.	2
	0257617	<b>20 VP (Standard)</b>	Ref.	10
	0270169	<b>20 VP (EE)</b>	Ref.	2
		<b>Note: For Platform Controls &amp; Cables (Restricted Height) (See Section 10)</b>		
1	3570680*	Plate, Control Mounting	1	
1A		Pad, Rubber Options:	A/R	
	7020075	RH Side Pad	2	
	7020076	LH Side Pad	2	
2	Not Used			
3		Platform Console Box Assembly Options (See Figure 2-5 For Breakdown):	1	
	1600267	Console Box Assembly (Prior to S/N 02996)		
	1600304	Console Box Assembly (S/N 02996 to Present)		
4	1060564	Cable, Electrical	A/R	
		10 VP	13.5ft/4m	
		15 VP	19ft/5.8m	
		20 VP	23ft/7m	
5		Platform Harness Assembly Options: (See Section 7 for Breakdown)	1	
	4922027	10 VP (Prior to S/N 02445)		
	4922201	10 VP(S/N 02445 to Present)		
	4922028	15 VP (Prior to S/N 02445)		
	4922202	15 VP(S/N 02445 to Present)		
	4922029	20 VP (Prior to S/N 02445)		
	4922203	20 VP(S/N 02445 to Present)		
6	3422657*	Pin, Quick Release	1	
7	1060380*	Cable, Lanyard	2	
8	1320043*	Clamp, Cable	1	
9	3310801*	Nut #8-32NC	A/R	
10	4750800*	Flatwasher #8 Wide	A/R	
11	3300416*	Nut, Acorn #8-32NC	4	
12	0100035	Compound, Locking (Not Shown)	A/R	
13	4160130	Spring, Extension	1	
14	3311605	Locknut 3/8"-16NC	1	
15	1320149	Clamp	3	
16	0641412	Bolt 1/4"-20NC x 1 1/2"	3	
17	0100019	Compound, Locking (Not Shown)	A/R	
18	3311405	Locknut 1/4"-20NC	7	
19	3580231	Pulley, Sheave	A/R	
20	3900200	Screw, Shoulder 5/16"-18NC x 1 1/4"	A/R	
21	4751500	Flatwasher 5/16" Wide	A/R	
22	0641406	Bolt 1/4"-20NC x 3/4"	4	
23	4711400	Flatwasher 1/4" Narrow	A/R	

# SECTION 2 CONTROLS

**FIGURE 2-2. PLATFORM CONTROLS AND CABLES INSTALLATIONS (CONTINUED)**

**SECTION 2 CONTROLS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
24	4460566	Connector, Strain Relief - 90°	1	
25	3380441	Panel, Control	1	
26	0860946	Box, Electrical	1	
27		Receptacle, Electrical Options:	1	
	4460190	Standard Machines		
	4460347	(EE) Machines		
28	4060092	Cover, Weatherproof	1	
29	0721005	Screw, Machine #10-24NC x 5/8"	2	
30	4761000	Lockwasher #10	2	
31	3311001	Nut #10-24NC	2	
32	4460023	Connector, Strain Relief	1	
33		Clamp, Cable Options:	A/R	
	1320227	Prior to S/N 01966	7	
	1320043	S/N 01966 to Present	4	
34		Hardware Options:	A/R	
	1020008	Button, Nylon (Prior to S/N 01966)	7	
	1380132	Clip, Gripper (S/N 01966 to Present)	4	
35	4460549	Plug, Electrical	1	
36	0960407	Bushing (Prior to S/N 02535)	1	
37	4751000	Flatwasher #10 Wide	A/R	
38	3300047	Nut, Conduit	1	
39		Carrier Options:	A/R	
	Not Required	10VP & 20VP	0	
	1180344	15VP	1	
40		Plate, Spacer Options:	A/R	
	Not Required	10VP & 20VP	0	
	3539617	15VP	2	
41	0641409	Bolt 1/4"-20NC x 1"	A/R	
42	0641416	Bolt 1/4"-20NC x 2"	A/R	
43	0641414	Bolt 1/4"-20NC x 1 3/4"	A/R	
44	3760170	Ring, Split	1	
45	0100048	Compound, Silicone #661 (Not Shown)	A/R	
46	3570737	Bracket, Protector	1	
47		Hardware Options:	4	
	4750800	Flatwasher #8 Wide (Prior to S/N 02535)		
	3820024	Pop Rivet (S/N 02535 to Present)		
48	4760800	Lockwasher #8 (Prior to S/N 02535)	4	
49	3310801	Nut #8-32NC (Prior to S/N 02535)	4	
50	3910806	Screw #8-32NC x 3/8" (Prior to S/N 02535)	4	
51	4740120	Washer, Nylon (S/N 03629 to Present)	4	
	2901542	Controller Mounting Kit (Includes Items with * asterisk)	1	

# SECTION 2 CONTROLS

FIGURE 2-2. PLATFORM CONTROLS AND CABLES INSTALLATIONS (CONTINUED)

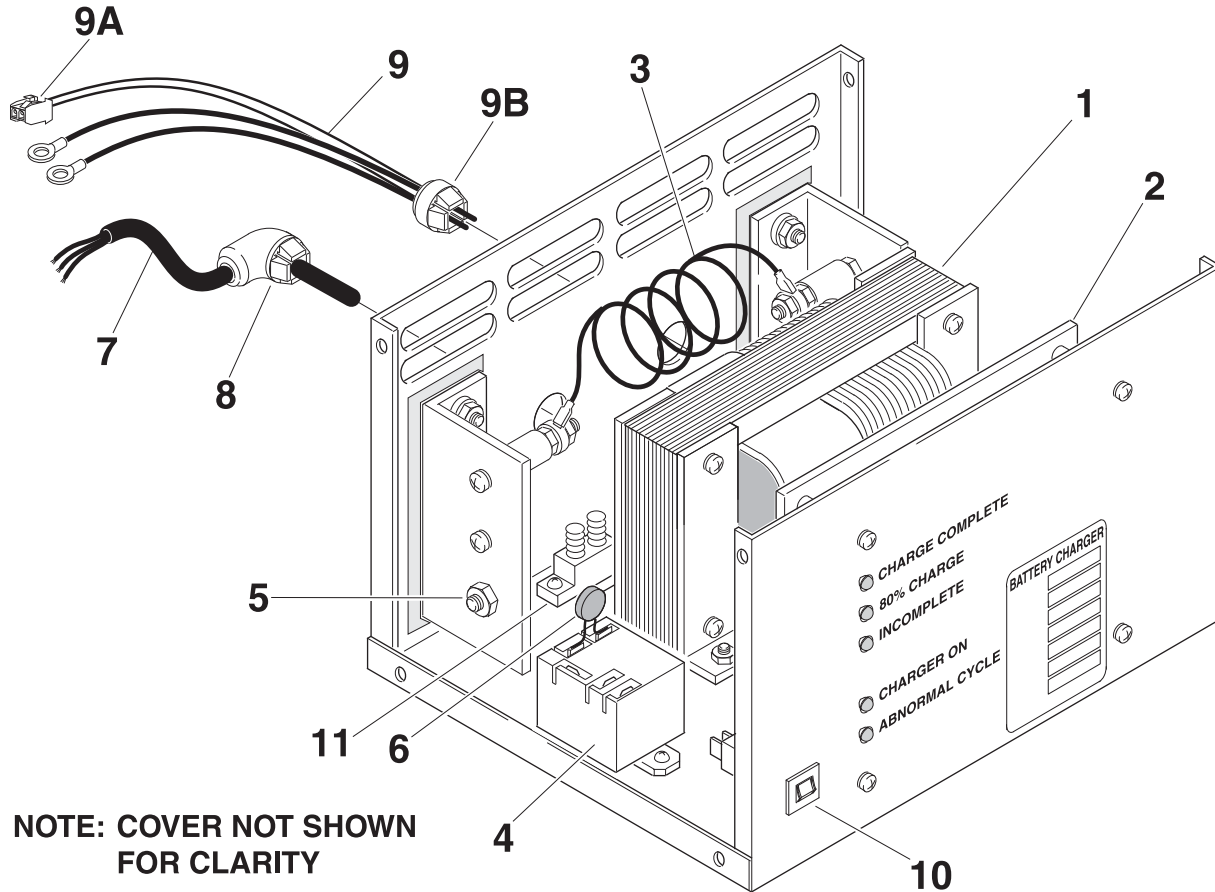
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

**S  
E  
C  
T  
I  
O  
N  
  
2  
  
C  
O  
N  
T  
R  
O  
L  
S**

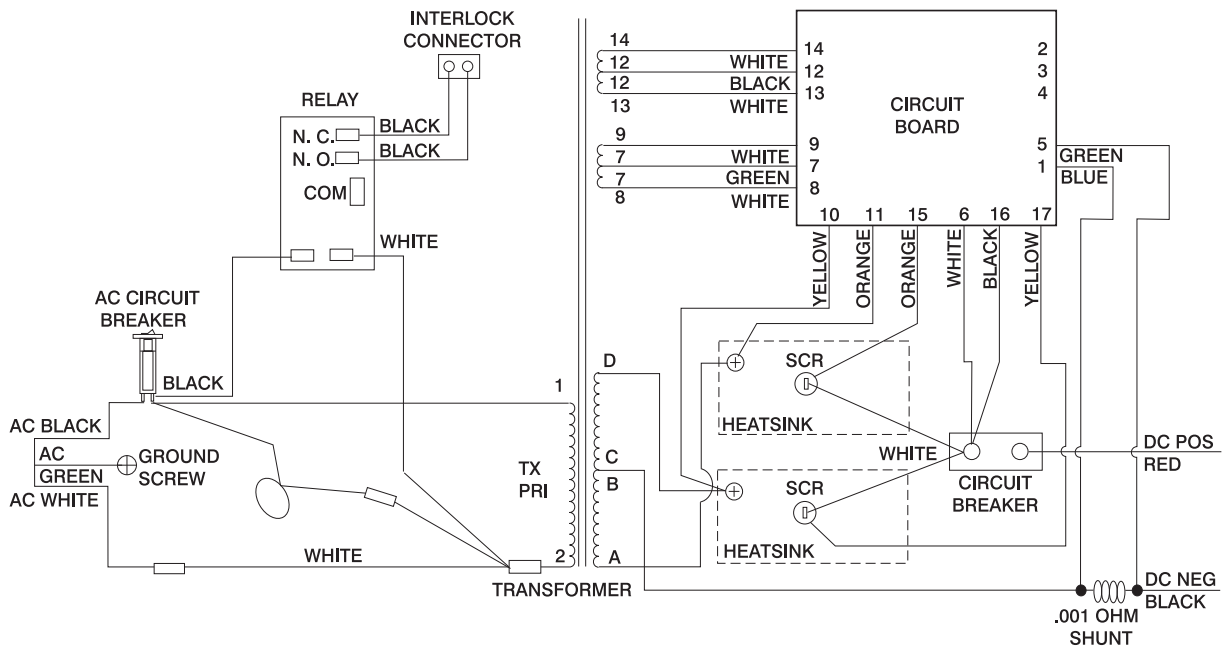
# SECTION 2 CONTROLS

FIGURE 2-3. BATTERY CHARGER ASSEMBLY

SECTION 2 CONTROLS



NOTE: COVER NOT SHOWN FOR CLARITY





# SECTION 2 CONTROLS

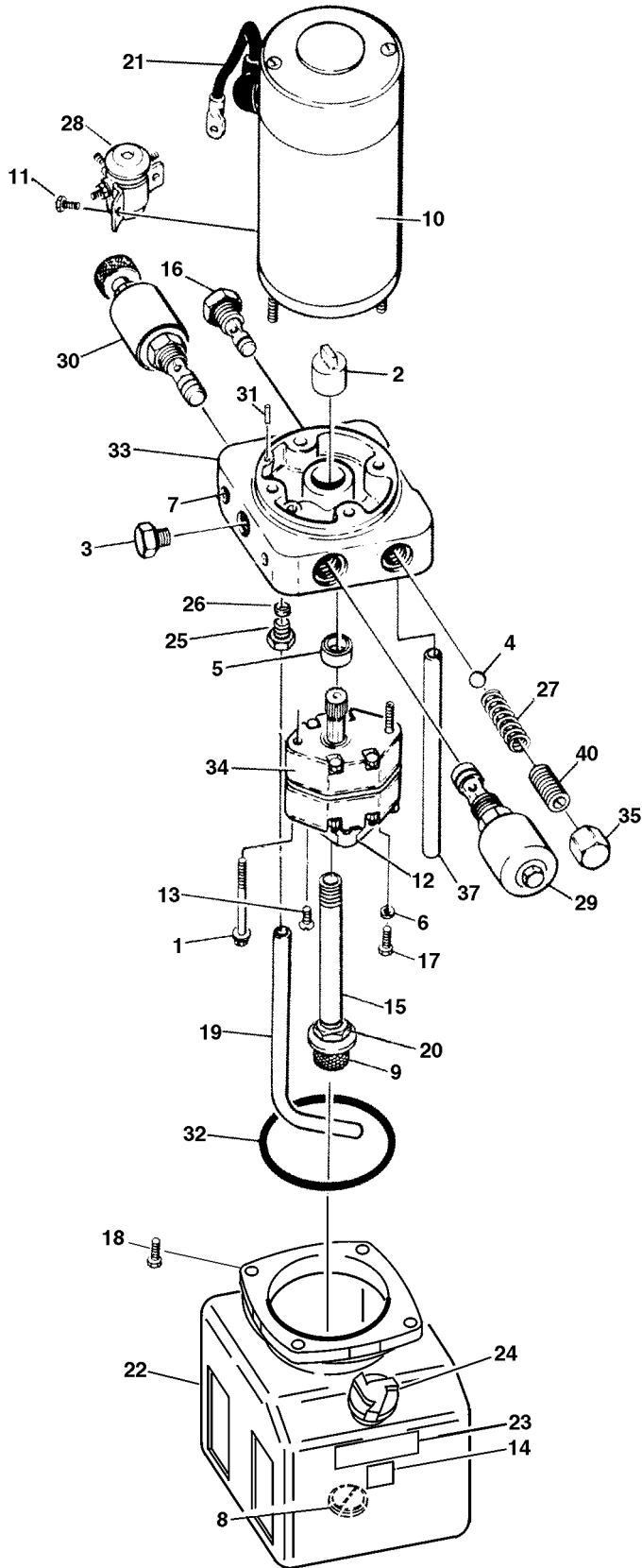
**FIGURE 2-3. BATTERY CHARGER ASSEMBLY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>BATTERY CHARGER ASSEMBLIES</b> <b>Note: Battery Charger Serial Number Nameplate located on front of charger. To decode built date, look at first line for for Charger Spec and Date Code.</b> <b>Example: BA515 (Spec) 9631 (Date Code). First and second digits in the Date Code indicates year. Third and fourth digits indicate the week of manufacture.</b>	Ref.	
	0400164	<b>BATTERY CHARGER ASSEMBLY - 120 VOLT/60HZ (Standard Machines) (BA1027 Charger Spec)</b>	Ref.	A
	0400166	<b>BATTERY CHARGER ASSEMBLY - 240 VOLT/50HZ (Machines used in the countries of Argentina, Bolivia, Chile Paraguay and Uruguay only) (BA1028 Charger Spec)</b>	Ref.	A
	0400173	<b>BATTERY CHARGER ASSEMBLY - 220 VOLT/60HZ (Brazil Spec Machines) (BA1046 Charger Spec)</b>	Ref.	A
1		Transformer Options:	1	
	7018550	Transformer (Charger p/n 0400164)		
	7018551	Transformer (Charger p/n 0400166)		
	7018561	Transformer (Charger p/n 0400173)		
2		Card, Circuit Options:	1	
	7018553	Card, Circuit (Charger p/n 0400164)		
	7018562	Card, Circuit (Charger p/n 0400166)		
	7018553	Card, Circuit (Charger p/n 0400173)		
3	7018554	Shunt Assembly	1	
4		Relay, Interlock Options:	1	
	7018506	Relay, Interlock (Charger p/n 0400164)		
	7018563	Relay, Interlock (Charger p/n 0400166)		
	7018535	Relay, Interlock (Charger p/n 0400173)		
5	7018555	SCR Rectifier	2	
6		Varistor Options:	1	
	7011596	Varistor (Charger p/n 0400164)		
	7018537	Varistor (Charger p/n 0400166)		
	7011537	Varistor (Charger p/n 0400173)		
7		AC Cord Assembly Options:	1	
	7011638	AC Cord Assembly (Charger p/n 0400164)		
	7011455	AC Cord Assembly (Charger p/n 0400166)		
	7018565	AC Cord Assembly (Charger p/n 0400173)		
8	7018556	Connector, Strain Relief - 90°	1	
9	7018567	DC Harness Assembly	1	
9A	4460424	Connector, Male - 2 Position	1	
	4460267	Pin, Male	2	
9B	7011528	Connector, Strain Relief	1	
10		Breaker, Circuit - AC Options:	1	
	7018514	Breaker, Circuit - AC (Charger p/n 0400164)		
	7018557	Breaker, Circuit - AC (Charger p/n 0400166)		
	7018557	Breaker, Circuit - AC (Charger p/n 0400173)		
11	7011509	Breaker, Circuit - DC	1	

**SECTION 2 CONTROLS**

# SECTION 2 CONTROLS

FIGURE 2-4. PUMP/MOTOR/TANK ASSEMBLY



SECTION 2 CONTROLS

# SECTION 2 CONTROLS

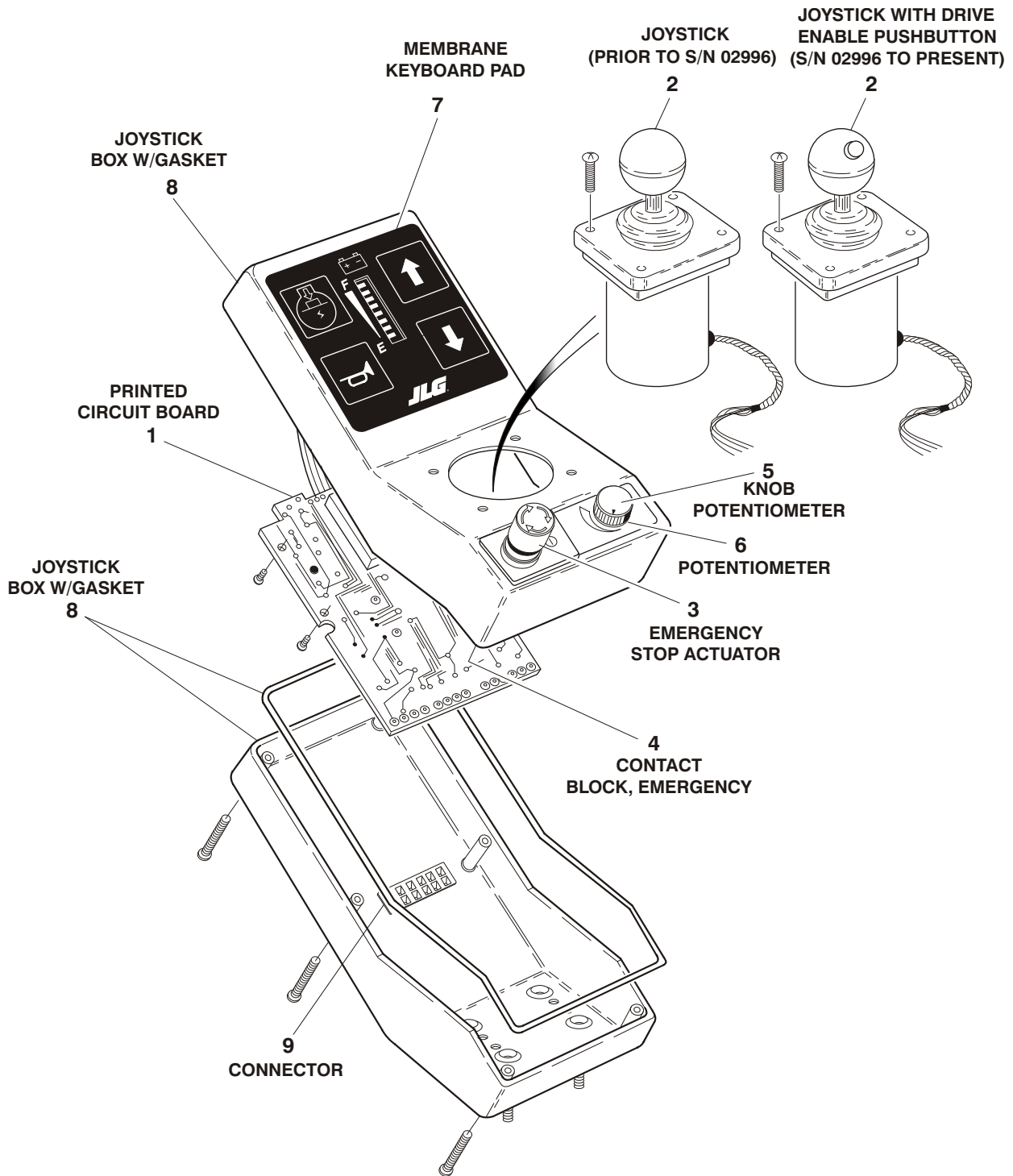
**FIGURE 2-4. PUMP/MOTOR/TANK ASSEMBLY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PUMP/MOTOR/TANK ASSEMBLY OPTIONS:</b>	Ref.	
	3600254	<b>10VP &amp; 15VP</b>	Ref.	B
	3600255	<b>20VP</b>	Ref.	B
1	7013713	Bolt 5/16"-24NF x 2 3/4"	2	
2	7016735	Coupling	1	
3	7013714	Plug	1	
4	7013715	Ball	1	
5	7013716	Seal, Shaft	1	
6	7013717	Washer	1	
7	Not Serviced	Plug, Shipping	1	
8	7013722	Magnet	1	
9	7013723	Filter - 149 Micron	1	
10	7016710	Motor	1	
	7016718	Brush Kit	1	
11	7013758	Screw 1/4"-20NC	2	
12	7013727	Cover	1	
13	7013728	Screw M6 x 1	2	
14	Not Serviced	Nameplate - Serial Number	1	
15	7016719	Pipe, PCV	1	
16	7013708	Valve, Check Cartridge	1	
17	7016720	Bolt 5/16"-18NC x 1"	1	
18	7016721	Bolt #12-24NC x 1/2"	4	
19	7013791	Tube, Return	1	
20	7016722	Nut 3/8"	1	
21	7013759	Cable, Electrical	1	
22	7016712	Tank, Plastic	1	
23	7016713	Decal - Tank Fill Line	1	
24	7016714	Breather	1	
25	7013792	Nut, Compression	1	
26	7013793	Sleeve, Compression	1	
27	7013733	Spring	1	
28	7016711	Solenoid, Start	1	
29	7022205	Valve, Solenoid Cartridge	1	
	7022206	Coil	1	
30	7016723	Valve, Manual Override Cartridge	1	
	7016749	Knob, Manual Override	1	
31	7013766	Pin	1	
32	7013743	O-Ring	1	
33	Not Serviced	Endhead	1	
34		Pump Assembly Options:	1	
	7017717	10VP & 15VP		
	7013747	20VP		
	7013701	Seal Kit - Pump	1	
35	7013750	Cap	1	
36	7013720	Plug 1/16"	2	
37	7016724	Tube	1	
38 to 39	Not Used			
40	7013770	Valve, Screw Adjustment	1	

# SECTION 2 CONTROLS

FIGURE 2-5. CONTROL BOX ASSEMBLY

SECTION 2 CONTROLS



# SECTION 2 CONTROLS

**FIGURE 2-5. CONTROL BOX ASSEMBLY**

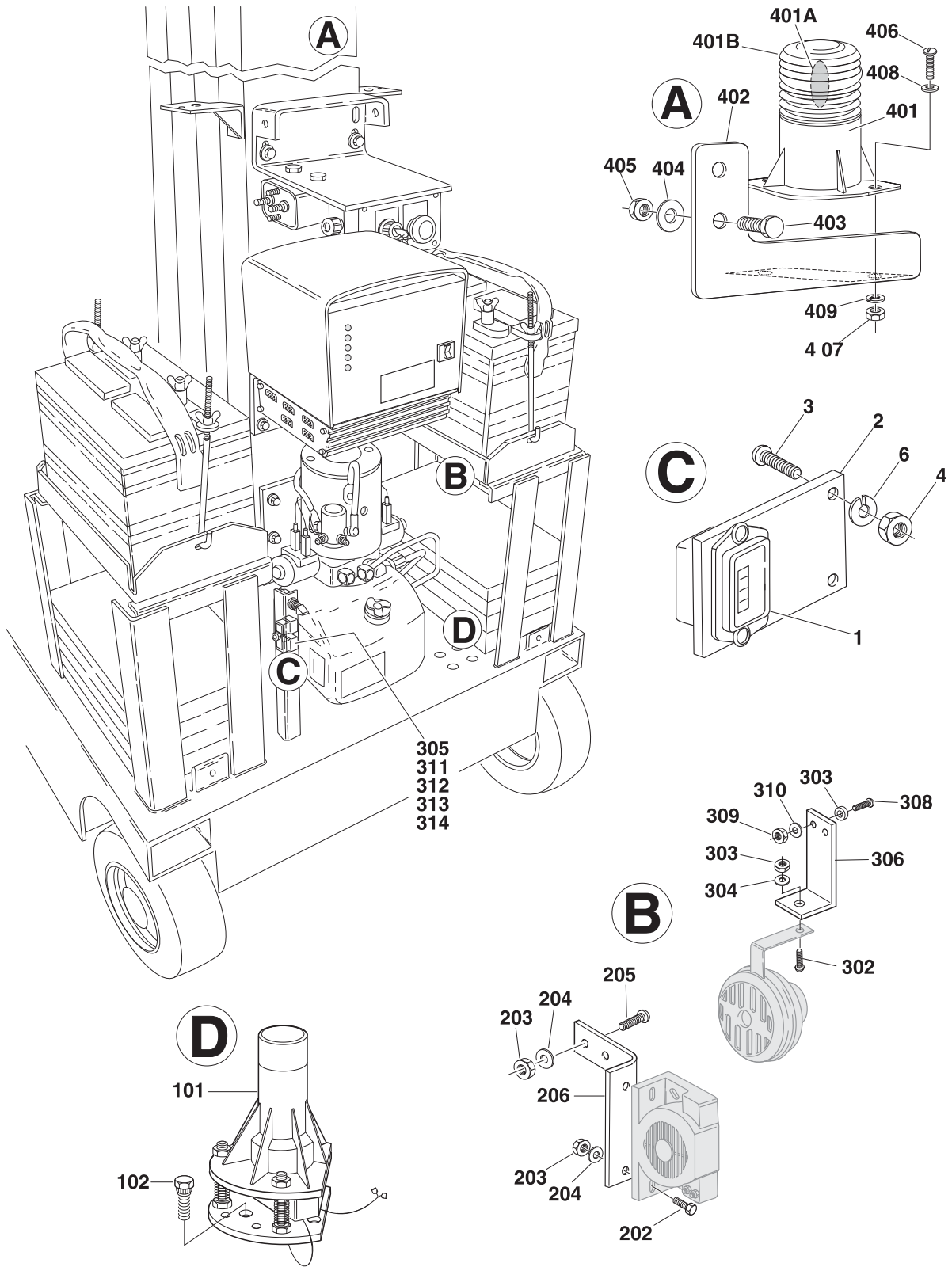
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>CONTROL BOX ASSEMBLIES</b>	Ref.	
	1600267	<b>PRIOR TO S/N 02996</b>	Ref.	A
	1600304	<b>S/N 02996 TO PRESENT</b>	Ref.	A
1	No Longer Available	Printed Circuit Board (was p/n 7020147 - Must Purchase Complete Control Box)	1	
2		Joystick Options:	1	
	7020141	Prior to S/N 02996		
	7023201	S/N 02996 to Present		
3	7020144	Emergency Stop Actuator	1	
4	7020145	Contact Block, Emergency Stop	1	
5	7020143	Knob Potentiometer	1	
6	7020142	Potentiometer	1	
7		Membrane Keyboard Pad Options:	1	
	7020146	Prior to S/N 02996		
	7023202	S/N 02996 to Present		
8	7020139	Joystick Box W/Gasket	1	
9		Connector, 12 Position Options:	1	
	Not Available	Prior to S/N 02996		
	7026038	S/N 02996 to Present		
	7026039	Pin	12	

**SECTION 2 CONTROLS**

# SECTION 2 CONTROLS

FIGURE 2-6. OPTION INSTALLATIONS

SECTION 2 CONTROLS



# SECTION 2 CONTROLS

**FIGURE 2-6. OPTION INSTALLATIONS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0256541	<b>HOURMETER INSTALLATION - OPTION</b>	Ref.	B
1	2420165	Gauge, Hourmeter	1	
2	0902296	Bracket	1	
3	3910608	Screw, Machine #6-32NC x 1/2"	4	
4	3310601	Nut #6-32NC	4	
5	Not Used			
6	4760600	Lockwasher #6	4	
		<b>TILT INDICATOR INSTALLATION - OPTIONS:</b>	Ref.	
	0256545	<b>Prior to S/N 02996</b>	Ref.	3
	0270068	<b>S/N 02996 to Present</b>	Ref.	1
101		Switch, Tilt Options:	1	
	4360435	Prior to S/N 02996		
	4360465	S/N 02996 to Present		
102	4300106	Stud, Grooved	4	
	0256540	<b>ALARM INSTALLATION - OPTION</b>	Ref.	C
201	0140033	Alarm (Remove Ground Strap Before Installing)	1	
202	0641406	Bolt 1/4"-20NC x 3/4"	2	
203	3311405	Locknut 1/4"-20NC	4	
204	4711400	Flatwasher 1/4" (Narrow)	4	
205	3911410	Screw, Machine 1/4"-20NC x 5/8"	2	
206	0902356	Bracket	1	
	0256539	<b>HORN INSTALLATION - OPTION</b>	Ref.	D
301	0140022	Horn	1	
302	0641507	Bolt 5/16"-18NC x 7/8" (Prior to S/N 02938)	1	
303	3311505	Locknut 5/16"-18NC (Prior to S/N 02938)	1	
304	4711500	Flatwasher 5/16" (Narrow) (Prior to S/N 02938)	2	
305	3740069	Relay	1	
306	0902354	Bracket (With Horn Only) (Prior to S/N 02938)	1	
307	3539964	Spacer (Prior to S/N 02938)	1	
308	3911416	Screw, Machine 1/4"-20NC x 1" (Prior to S/N 02938)	2	
309	3311405	Locknut 1/4"-20NC (Prior to S/N 02938)	2	
310	4711400	Flatwasher 1/4" (Narrow) (Prior to S/N 02938)	2	
311	3911010	Screw, Machine #10-24NC x 5/8"	1	
312	3311001	Nut #10-24NC	1	
313	4751000	Flatwasher #10	2	
314	4761000	Lockwasher #10	1	

# SECTION 2 CONTROLS

FIGURE 2-6. OPTION INSTALLATIONS (CONTINUED)

**SECTION 2 CONTROLS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0256546	<b>BEACON LIGHT INSTALLATION - OPTION</b>	Ref.	C
401	2920146	Beacon Light Assembly	1	
401A	7016319	Bulb, Light	1	
401B	7016372	Amber Lens	1	
402	0902297	Bracket	1	
403	0641610	Bolt 3/8"-16NC x 1 1/4"	2	
404	3311605	Locknut 3/8"-16NC	2	
405	4711600	Flatwasher 3/8" (Narrow)	4	
406	3911010	Screw, Machine #10-24NC x 5/8"	2	
407	3311001	Nut #10-24NC	2	
408	4751000	Flatwasher #10	2	
409	4761000	Lockwasher #10	2	



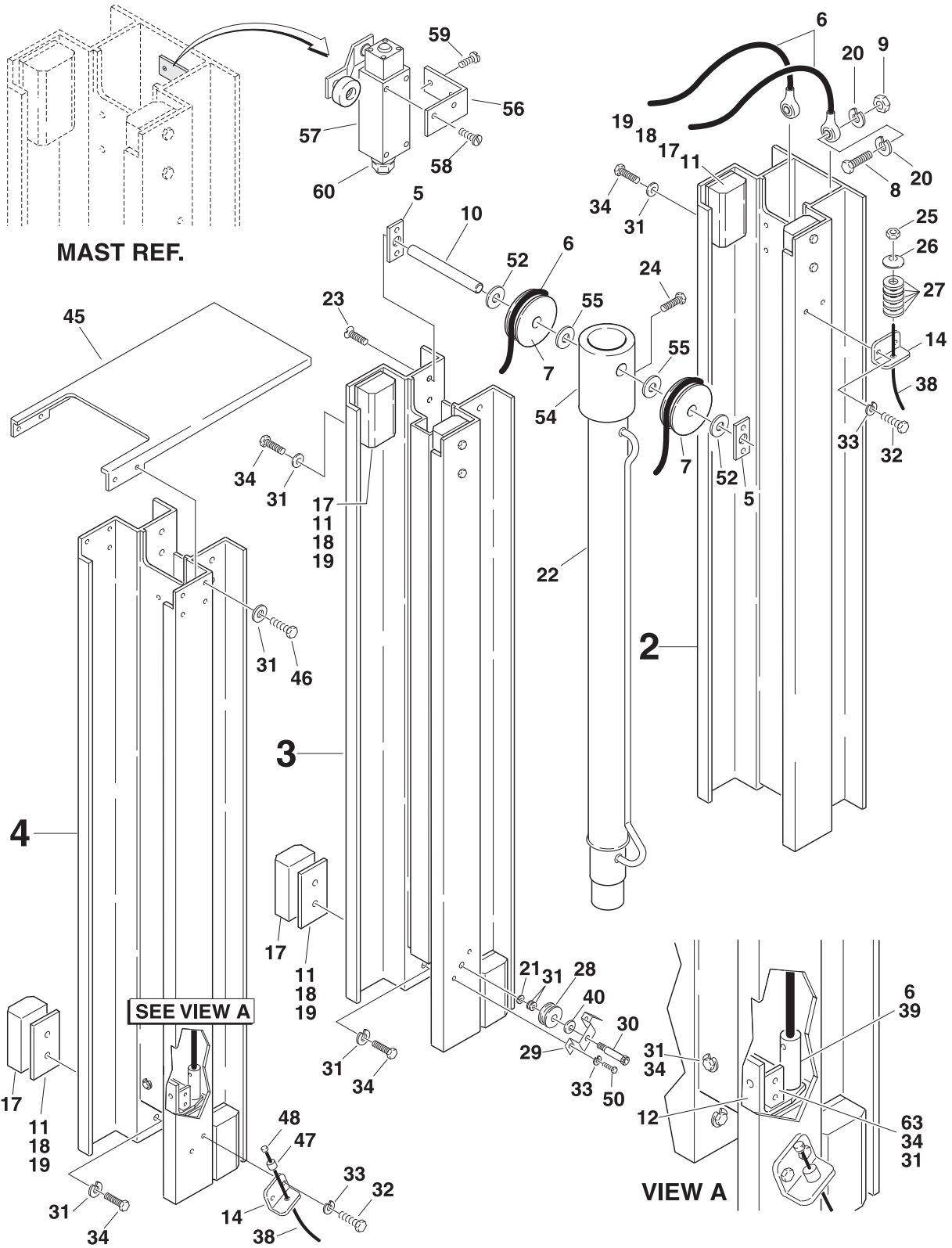
# SECTION 3 MAST

TABLE OF CONTENTS		
FIGURE	DESCRIPTION	PAGE
3-1	MAST ASSEMBLY - 10VP .....	3-2
3-2	MAST ASSEMBLY - 15VP .....	3-6
3-3	MAST ASSEMBLY - 20VP .....	3-10
3-4	MAST MOUNTING COMPONENTS.....	3-14

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# SECTION 3 MAST

FIGURE 3-1. MAST ASSEMBLY - 10VP



SECTION 3 MAST

# SECTION 3 MAST

**FIGURE 3-1. MAST ASSEMBLY - 10VP**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0801117	<b>MAST ASSEMBLY - 10VP</b>	Ref.	4/B
1	Not Used			
2	1271353	Channel, Mast #1	1	
3	1271354	Channel, Mast #2	1	
4	1271373	Channel, Mast #3	1	
5	0362377	Bar, Sheave Pin	2	
6	1060653	Cable Assembly	2	
7	3580217	Cable, Sheave	2	
8	0641610	Bolt 3/8"-16NC x 1 1/4"	2	
9	3311605	Locknut 3/8"-16 NC	2	
10	3422361	Pin, Sheave	1	
11	4070860	Shim 5/64"	15	
12	4845544	Bracket - Bottom	1	
13	Not Used			
14	0902047	Bracket	1	
15	Not Used			
16	Not Used			
17		Pad, Slide Options:	8	
	3340704	Prior to S/N 02816		
	3340845	S/N 02816 to Present		
18	4070861	Shim 1/32"	3	
19	4070862	Shim 1/64"	10	
20	4751600	Flatwasher 3/8"	2	
21	4761600	Lockwasher 3/8"	1	
22	1683201	Lift Cylinder Assembly (See Section 5 for Breakdown)	1	
23	3900192	Screw, 3/8"-16NC x 1/2"	4	
24	3900206	Bolt 1/4"-20NC x 5/8"	1	
25	3311405	Locknut 1/4"-20NC	1	
26	4740414	Washer, Cup	1	
27	4160124	Spring	1	
28		Sheave, Cable	1	
	3580228	Prior to S/N 02947		
	3580269	S/N 02947 to Present		
29	0902042	Bracket, Pulley	1	
30	3900187	Screw, Shoulder	1	
31	4711400	Flatwasher 1/4" (Narrow)	38	
32	3900191	Screw #10-24NC x 3/4"	2	
33	4761000	Lockwasher #10	8	
34	0641406	Bolt 1/4"-20NC x 3/4"	16	
35	Not Used			
36	Not Used			
37	Not Used			
38	1060541	Cable, Sequence	1	
39	3311601	Nut 3/8"-16 NC	4	
40	4751500	Flatwasher 5/16"	1	
41	3340709	Pad, Slide	2	
42	Not Used			

SECTION 3 MAST

# SECTION 3 MAST

**FIGURE 3-1. MAST ASSEMBLY - 10VP (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
43	Not Used			
44	Not Used			
45	4060877	Shield, Mast Cover	1	
46	0641404	Bolt 1/4"-20NC x 1/2"	4	
47	4220160	Sleeve, Stop	1	
48	4460121	Connector, Cap	1	
49	3020035	Lubricant, Silicone (Not Shown) (Prior to S/N 02816)	A/R	
50	3900205	Screw, Phillips	2	
51	Not Used			
52	4566838	Tube, Spacer	2	
53	Not Used			
54	4566846	Tube, Cylinder Cable Mounting	1	
55	4566960	Tube, Spacer	2	
56	0902285	Bracket, Limit Switch	1	
57	4360437	Switch, Limit	1	
58	3911020	Screw, Machine #10-24NC x 1 1/4"	2	
59	0740602	Screw, Socket Head #6-32NC x 1/4"	2	
60	4460662	Connector, Strain Relief	1	
61	0100011	Compound, Locking (Not Shown)	A/R	
62	0100035	Compound, Locking (Not Shown)	A/R	
63	3570389	Plate, Support Attach	2	
	2901519	Mast Kit - 10VP (Includes Items 2-4)	1	

**SECTION 3 MAST**

# SECTION 3 MAST

FIGURE 3-1. MAST ASSEMBLY - 10VP (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 3 MAST

**FIGURE 3-2. MAST ASSEMBLY - 15VP**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0801118	<b>MAST ASSEMBLY - 15VP</b>	Ref.	4/B
1	1271353	Channel, Mast #1	1	
2	1271354	Channel, Mast #2	1	
3	1271356	Channel, Mast #3	1	
4	1271357	Channel, Mast #4	1	
5	0362377	Bar, Sheave Pin Support	4	
6	1060653	Cable, Assembly	2	
7	3580217	Cable, Sheave	4	
8	0641610	Bolt 3/8"-16NC x 1 1/4"	2	
9	3311605	Locknut 3/8"-16 NC	2	
10	3422361	Pin, Sheave	1	
11	4070860	Shim 5/64"	15	
12	4845544	Bracket - Bottom	1	
13	0641410	Bolt 1/4"-20NC x 1 1/4"	10	
14	0902047	Bracket, Sequence Cable	2	
15	4566487	Tube, Spacer	2	
16	0901993	Bracket, Bottom	1	
17		Pad, Slide Options:	10	
	3340704	Prior to S/N 02816		
	3340845	S/N 02816 to Present		
18	4070861	Shim 1/32"	3	
19	4070862	Shim 1/64"	10	
20	4751600	Flatwasher 3/8"	2	
21	4761600	Lockwasher 3/8"	2	
22	1683201	Lift Cylinder Assembly (See Section 5 for Breakdown)	1	
23	3900192	Screw, 3/8"-16NC x 1/2"	8	
24	3900206	Bolt 1/4"-20NC x 5/8"	1	
25	3311405	Locknut 1/4"-20NC	2	
26	4740414	Washer, Cup	2	
27	4160124	Spring	2	
28		Sheave, Cable	2	
	3580228	Prior to S/N 02947		
	3580269	S/N 02947 to Present		
29	0902042	Bracket, Pulley	2	
30	3900187	Screw, Shoulder	2	
31	4711400	Flatwasher 1/4" (Narrow)	54	
32	3900191	Screw #10-24NC x 3/4"	4	
33	4761000	Lockwasher #10	8	
34	0641406	Bolt 1/4"-20NC x 3/4"	38	
35	Not Used			
36	Not Used			
37	Not Used			
38	1060541	Cable, Sequence	2	
39	3311601	Nut 3/8"-16 NC	8	
40	4751500	Flatwasher 5/16"	2	
41	3340709	Pad, Slide	2	
42	4070875	Shim 5/64"	1	

SECTION 3 MAST

# SECTION 3 MAST

**FIGURE 3-2. MAST ASSEMBLY - 15VP (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
43	4070876	Shim 3/64"	1	
44	4070877	Shim 1/64"	1	
45	4060877	Shield, Mast Cover	1	
46	0641404	Bolt 1/4"-20NC x 1/2"	4	
47	4220160	Sleeve, Stop	2	
48	4460121	Connector, Cap	2	
49	3020035	Lubricant, Silicone (Not Shown) (Prior to S/N 02816)	A/R	
50	3900205	Screw, Phillips	4	
51	Not Used			
52	4566838	Tube, Spacer	2	
53	1060656	Cable, Mast Extension	2	
54	4845133	Tube, Cylinder Cable Mounting	1	
55	4566960	Tube, Spacer	2	
56	0902285	Bracket, Limit Switch	1	
57	4360437	Switch, Limit	1	
58	3911020	Screw, Machine #10-24NC x 1 1/4"	2	
59	0740602	Screw, Socket Head #6-32NC x 1/4"	2	
60	4460662	Connector, Strain Relief	1	
61	0100011	Compound, Locking (Not Shown)	A/R	
62	0100035	Compound, Locking (Not Shown)	A/R	
63	3570389	Plate, Support Attach	4	
	2901520	Mast Kit - 15VP (Includes Items 1-4)	1	
	0270113	<b>MAST SHIELD ASSEMBLY</b>	Ref.	A
101	3311401	Nut 1/4"-20NC	4	
102	4711400	Flatwasher 1/4" (Narrow)	8	
103	0641408	Bolt 1/4"-20NC x 1"	4	
104		Shield, Mast Chain/Cable Options:	1	
	4060988	Shield - 21 1/2" x 4"		
	4060994	Shield - 15 1/2" x 4" (Restricted Height)		

**SECTION 3 MAST**



# SECTION 3 MAST

FIGURE 3-2. MAST ASSEMBLY - 15VP (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 3 MAST

**FIGURE 3-3. MAST ASSEMBLY - 20VP**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0801119	<b>MAST ASSEMBLY - 20VP</b>	Ref.	5/D
1	1271353	Channel, Mast #1	1	
2	1271354	Channel, Mast #2	1	
3	1271358	Channel, Mast #3	1	
4	1271356	Channel, Mast #4	1	
5	1271357	Channel, Mast #5	1	
6	0362377	Bar, Sheave Pin Support	6	
7	1260305	Chain Assembly - #466 (See Items 101-106 for Breakdown)	2	
8	1260306	Chain Assembly - #444 (See Items 201-206 for Breakdown)	1	
9	1060653	Cable, Assembly	2	
10	3580227	Sheave, Chain - #466	2	
11	3580226	Sheave, Chain - #444	2	
12	3580217	Cable, Sheave	2	
13	0641610	Bolt 3/8"-16NC x 1 1/4"	2	
14	3311605	Locknut 3/8"-16 NC	6	
15	3422361	Pin, Sheave	3	
16	4070860	Shim 5/64"	16	
17	0901992	Bracket - Bottom	1	
18	0901993	Bracket - Bottom	1	
19	0641410	Bolt 1/4"-20NC x 1 1/4"	10	
20	0902047	Bracket, Sequence Cable	3	
21	4566486	Tube, Spacer	1	
22	4566487	Tube, Spacer	2	
23	4712600	Flatwasher 1"	2	
24	4845544	Bracket - Bottom	1	
25		Pad, Slide Options:	14	
	3340704	Prior to S/N 02816		
	3340845	S/N 02816 to Present		
26	4070861	Shim 1/32"	2	
27	4070862	Shim 1/64"	9	
28	4751600	Flatwasher 3/8"	8	
29	4761400	Lockwasher 1/4"	3	
30	1683201	Lift Cylinder Assembly (See Section 5 for Breakdown)	1	
31	3900192	Screw, 3/8"-16NC x 1/2"	12	
32	3900206	Bolt 1/4"-20NC x 5/8"	1	
33	3311405	Locknut 1/4"-20NC	3	
34	4740414	Washer, Cup	3	
35	4160124	Spring	3	
36		Sheave, Cable	3	
	3580228	Prior to S/N 02947		
	3580269	S/N 02947 to Present		
37	0902042	Bracket, Pulley	3	
38	3900187	Screw, Shoulder	3	
39	4711400	Flatwasher 1/4" (Narrow)	80	
40	3900191	Screw #10-24NC x 3/4"	8	
41	4761000	Lockwasher #10	14	
42	0641406	Bolt 1/4"-20NC x 3/4"	44	

SECTION 3 MAST

# SECTION 3 MAST

**FIGURE 3-3. MAST ASSEMBLY - 20VP (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
43	Not Used			
44	Not Used			
45	Not Used			
46	1060541	Cable, Sequence	3	
47	0741620	Bolt 3/8"-16NC x 2 1/2"	4	
48	0902084	Bracket	1	
49	3311601	Nut 3/8"-16 NC	12	
50	4751500	Flatwasher 5/16"	3	
51	3340709	Pad, Slide	2	
52	4070875	Shim 5/64"	2	
53	4070876	Shim 3/64"	1	
54	4070877	Shim 1/64"	1	
55		Shield, Mast Cover Options:	1	
	4060877	Prior to S/N 03277		
	4061004	S/N 03277 to Present		
56	0641404	Bolt 1/4"-20NC x 1/2"	4	
57	4220160	Sleeve, Stop	3	
58	4460121	Connector, Cap	3	
59	3020035	Lubricant, Silicone (Not Shown) (Prior to S/N 02816)	A/R	
60	3900205	Screw, Phillips	6	
61	Not Used			
62	0902285	Bracket, Limit Switch	1	
63	4360437	Switch, Limit	1	
64	3911020	Screw, Machine #10-24NC x 1 1/4"	2	
65	0740602	Screw, Socket Head #6-32NC x 1/4"	2	
66	4460662	Connector, Strain Relief	1	
67	0100011	Compound, Locking (Not Shown)	A/R	
68	0100035	Compound, Locking (Not Shown)	A/R	
69	3570389	Plate, Support Attach	6	
		-----		
	2901521	Mast Kit - 20VP (Includes Items 1-5)	1	
	1260305	<b>CHAIN ASSEMBLY - #466 CHAIN</b>	Rev.	C
101	0561156	Block, Chain Anchor	1	
102	1260299	Chain	68in/1.73m	
103	3422265	Pin, Chain Anchor	2	
	3450201	Pin, Cotter	4	
104	0561150	Block, Chain Anchor	1	
105	4300111	Stud	1	
106	0100062	Compound, Locking (Not Shown)	A/R	
	1260306	<b>CHAIN ASSEMBLY - #444 CHAIN</b>	Rev.	C
201	0561159	Block, Chain Anchor	1	
202	1260298	Chain	137in/ 3.488m	
203	3422346	Pin, Groove	2	
204	0561151	Block, Chain Anchor	2	

**SECTION 3 MAST**

# SECTION 3 MAST

**FIGURE 3-3. MAST ASSEMBLY - 20VP (CONTINUED)**

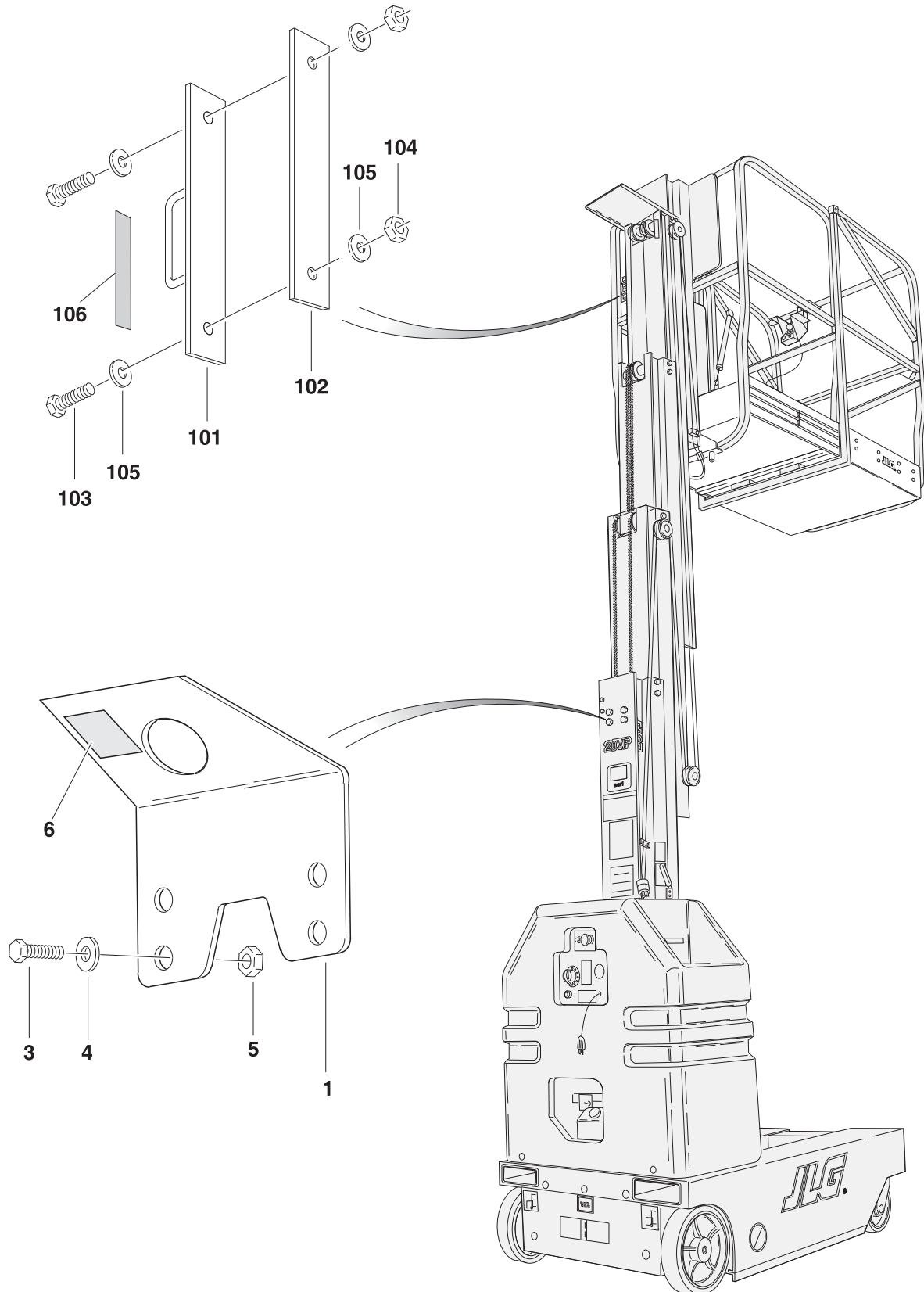
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
205	4300111	Stud	2	
206	0100062	Compound, Locking (Not Shown)	A/R	
207	3422266	Pin, Chain Anchor	1	
208	3450201	Pin, Cotter	2	
	0270113	<b>MAST SHIELD ASSEMBLY</b>	Ref.	A
301	3311401	Nut 1/4"-20NC	4	
302	4711400	Flatwasher 1/4" (Narrow)	8	
303	0641408	Bolt 1/4"-20NC x 1"	4	
304		Shield, Mast Chain/Cable Options:	1	
	4060988	Shield - 21 1/2" x 4"		
	4060994	Shield - 15 1/2" x 4" (Restricted Height)		

SECTION 3 MAST

# SECTION 3 MAST

FIGURE 3-4. MAST MOUNTED COMPONENTS

SECTION 3 MAST



# SECTION 3 MAST

**FIGURE 3-4. MAST MOUNTED COMPONENTS**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0257648	<b>OPTIONAL CRANE HOOK INSTALLATION</b>	Ref.	1
1	3570312	Plate, Crane Hook	1	
2	Not Used			
3	0641609	Bolt 3/8"-16NC x 1 1/8"	4	
4	4711600	Flatwasher 3/8"	4	
5	3311601	Nut 3/8"-16NC	4	
6	1703455	Decal - Crane Hook	1	
		<b>SAFETY ATTACH INSTALLATION</b>	Ref.	
	0256559	<b>Common Machines</b>	Ref.	3
	0257114	<b>GM/Hertz Machines</b>	Ref.	
101	4845345	Weldment, Safety Attach	1	
102	3539814	Plate, Backing	1	
103	0641812	Bolt 1/2"-13NC x 1 1/2	2	
104	3271805	Locknut 1/2"-13NC	2	
105	4751800	Flatwasher 1/2"	4	
106		Decal - Lanyard Attach Options:	1	
	1702612	Common Machines (Prior to S/N 03905)		
	1704277	Common Machines (S/N 03905 to Present)		
	1703175	GM/Hertz Machines		

SECTION 3 MAST

# SECTION 3 MAST

FIGURE 3-4. MAST MOUNTED COMPONENTS (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

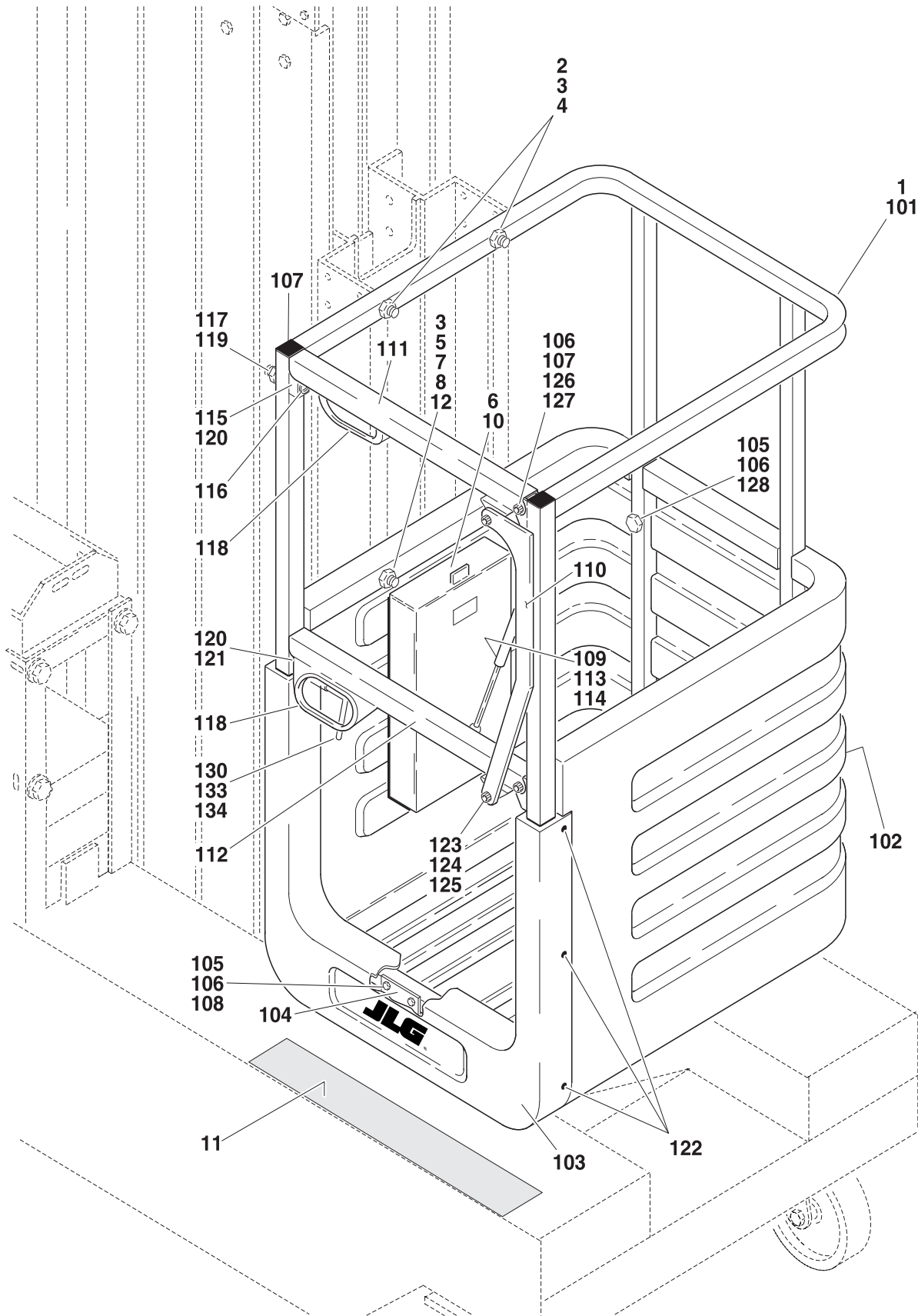
<b>TABLE OF CONTENTS</b>		
<b>FIGURE</b>	<b>DESCRIPTION</b>	<b>PAGE</b>
4-1	MOLDED PLATFORM INSTALLATION (Prior to S/N 02370) . . . . .	4-2
4-2	MOLDED PLATFORM INSTALLATION (S/N 02370 to Present) . . . . .	4-6
4-3	QUICK-CHANGE PLATFORM INSTALLATION WITH SLIDE RAIL ENTRY . . . . .	4-10
4-4	QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (PRIOR TO S/N 02256) . . . . .	4-12
4-5	QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (S/N 02256 TO PRESENT) . . . . .	4-16
4-6	QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (PRIOR TO S/N 02256) . . . . .	4-20
4-7	QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (S/N 02256 TO PRESENT) . . . . .	4-24
4-8	OPTIONAL PLATFORM COMPONENTS INSTALLATION . . . . .	4-28

SECTION 4 PLATFORM

# SECTION 4 PLATFORM

FIGURE 4-1.MOLDED PLATFORM INSTALLATION (PRIOR TO S/N 02370)

SECTION 4 PLATFORM



# SECTION 4 PLATFORM

**FIGURE 4-1. MOLDED PLATFORM INSTALLATION (PRIOR TO S/N 02370)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>MOLDED PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
	0258000	<b>Standard Machines</b>	Ref.	1
	0258017	<b>CSA Machines</b>	Ref.	1
1	3510454*	Platform Assembly (See Items 101-134 for Break-down)	1	
2	0641518*	Bolt 5/16"-18NC x 2 1/4"	2	
3	4711500*	Flatwasher 5/16" (Narrow)	4	
4	3311505*	Locknut 5/16"-18NC	2	
5	3300356*	Nut, Acorn 5/16"-18NC	2	
6	0860520*	Box, Manual Storage	1	
7	4300115*	Stud 5/16"-18NC x 3"	2	
8	3311501*	Nut 5/16"-18NC	2	
9	0100011	Compound, Locking (Not Shown)	A/R	
10	3820032*	Rivet	4	
11	4420039*	Tape, Non Skid	16in/39cm	
12		Shim Options:	A/R	
	Not Required	Standard Machines	0	
	4070958	CSA Machines	1	
	0258007*	Platform Kit (Includes Items with (*) asterisk)	1	
	3510454	<b>PLATFORM ASSEMBLY</b>	Ref.	5/D
101	3640923	Rail	1	
102	3510477	Basket	1	
103	4060882	Cover	1	
104	0362384	Bar, Support	1	
105	0641416	Bolt 1/4"-20NC x 2"	10	
106	4751400	Flatwasher 1/4"	22	
107	3520072	Cap	2	
108	3311405	Locknut 1/4"-20NC	12	
109	4160125	Spring, Gas	1	
110	0362347	Link, Gate	1	
111	3640924	Rail, Gate (Top)	1	
112	3640990	Rail, Gate (Bottom)	1	
113	4751500	Flatwasher 5/16"	1	
114	3311505	Locknut 5/16"-18NC	1	
115	3340746	Pad, Gate Rest	1	
116	3911032	Screw, Machine #10-24NC x 2"	4	
117	4751000	Flatwasher #10	8	
118	4060805	Flex-Trim	2ft/0.6m	
119	3311001	Nut #10-24NC	4	
120	4070890	Shim, Gate Stop	2	
121	3340754	Pad, Gate Latch	1	
122	3900177	Screw, Plastite	6	
123	3900202	Bolt, Shoulder	2	

SECTION 4 PLATFORM

# SECTION 4      PLATFORM

**FIGURE 4-1. MOLDED PLATFORM INSTALLATION (PRIOR TO S/N 02370) (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
124	4740429	Washer, Nylon	4	
125	3311005	Locknut #10-24NC	2	
126	3900203	Bolt, Shoulder	2	
127	4740428	Washer, Nylon	4	
128	3300151	Nut, Acorn 1/4"-20NC	2	
129	0100011	Compound, Locking (Not Shown)	A/R	
130	2940082	Latch, Gate	1	
131 to 132	Not Used			
133	3820024	Rivet	2	
134	4070894	Shim, Gate Latch	1	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

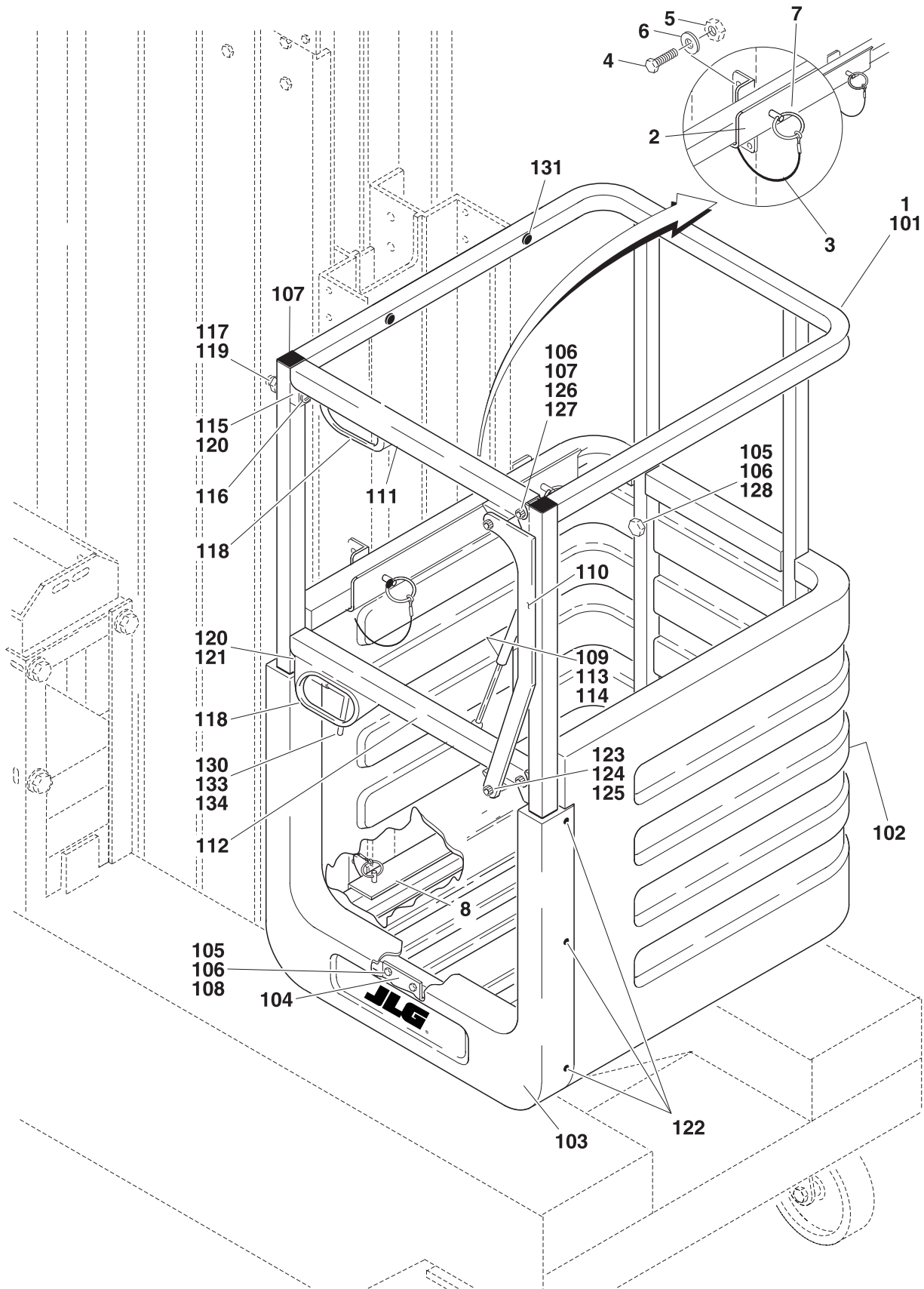
FIGURE 4-1. MOLDED PLATFORM INSTALLATION (PRIOR TO S/N 02370) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

FIGURE 4-2.MOLDED PLATFORM INSTALLATION (S/N 02370 TO PRESENT)



SECTION 4 PLATFORM

# SECTION 4 PLATFORM

**FIGURE 4-2. MOLDED PLATFORM INSTALLATION (S/N 02370 TO PRESENT)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>MOLDED PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
	0258878	<b>20VP - Standard Machines</b>	Ref.	1
	0258877	<b>10VP &amp; 15VP - Standard Machines</b>	Ref.	1
	0258879	<b>20VP - CSA Machines</b>	Ref.	1
	0258881	<b>10VP &amp; 15VP - CSA Machines</b>	Ref.	1
1	0258672	Platform Assembly (See Items 101-134 for Break-down)	1	
2		Weldment, Platform Mount Options:	1	
	4845806	20VP - Standard & CSA Machines		
	4845807	10VP & 15VP - Standard & CSA Machines		
3	1060380	Cable, Lanyard	4	
4	0641408	Bolt 1/4"-20NC x 1"	8	
5	3311405	Locknut 1/4"-20NC	8	
6	4711400	Flatwasher 1/4"	16	
7	3422657	Pin, Ball Detent	4	
8		Weldment, Platform Mount Options:	1	
	4845806	20VP - Standard Machines		
	4845807	10VP & 15VP - Standard Machines		
	4845847	10VP,15VP & 20VP - CSA Machines		
	0258672	<b>PLATFORM ASSEMBLY</b>	Ref.	3/B
101	4845822	Rail	1	
102	3510676	Basket	1	
103	4060882	Cover	1	
104	4845831	Weldment, Bottom Mount	1	
105	0641416	Bolt 1/4"-20NC x 2"	10	
106	4751400	Flatwasher 1/4"	22	
107	3520072	Cap	4	
108	3311405	Locknut 1/4"-20NC	12	
109	4160125	Spring, Gas	1	
110	0362347	Link, Gate	1	
111	3640924	Rail, Gate (Top)	1	
112	3640990	Rail, Gate (Bottom)	1	
113	4711500	Flatwasher 5/16"	1	
114	3311505	Locknut 5/16"-18NC	1	
115	3340746	Pad, Gate Rest	1	
116	3911032	Screw, Machine #10-24NC x 2"	4	
117	4751000	Flatwasher #10	8	
118	4060804	Flex-Trim	2ft/0.6m	
119	3311001	Nut #10-24NC	4	
120	4070890	Shim, Gate Stop	2	
121	3340754	Pad, Gate Latch	1	
122	3900177	Screw, Plastite	6	
123	3900202	Bolt, Shoulder	2	
124	4740429	Washer, Nylon	4	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

**FIGURE 4-2. MOLDED PLATFORM INSTALLATION (S/N 02370 TO PRESENT) (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
125	3311005	Locknut #10-24NC	2	
126	3900203	Bolt, Shoulder	2	
127	4740428	Washer, Nylon	4	
128	3300151	Nut, Acorn 1/4"-20NC	2	
129	0100011	Compound, Locking (Not Shown)	A/R	
130	2940082	Latch, Gate	1	
131	3520028	Plug	A/R	
132	Not Used			
133	3820024	Rivet	2	
134	4070894	Shim, Gate Latch	1	

**SECTION 4 PLATFORM**



# SECTION 4 PLATFORM

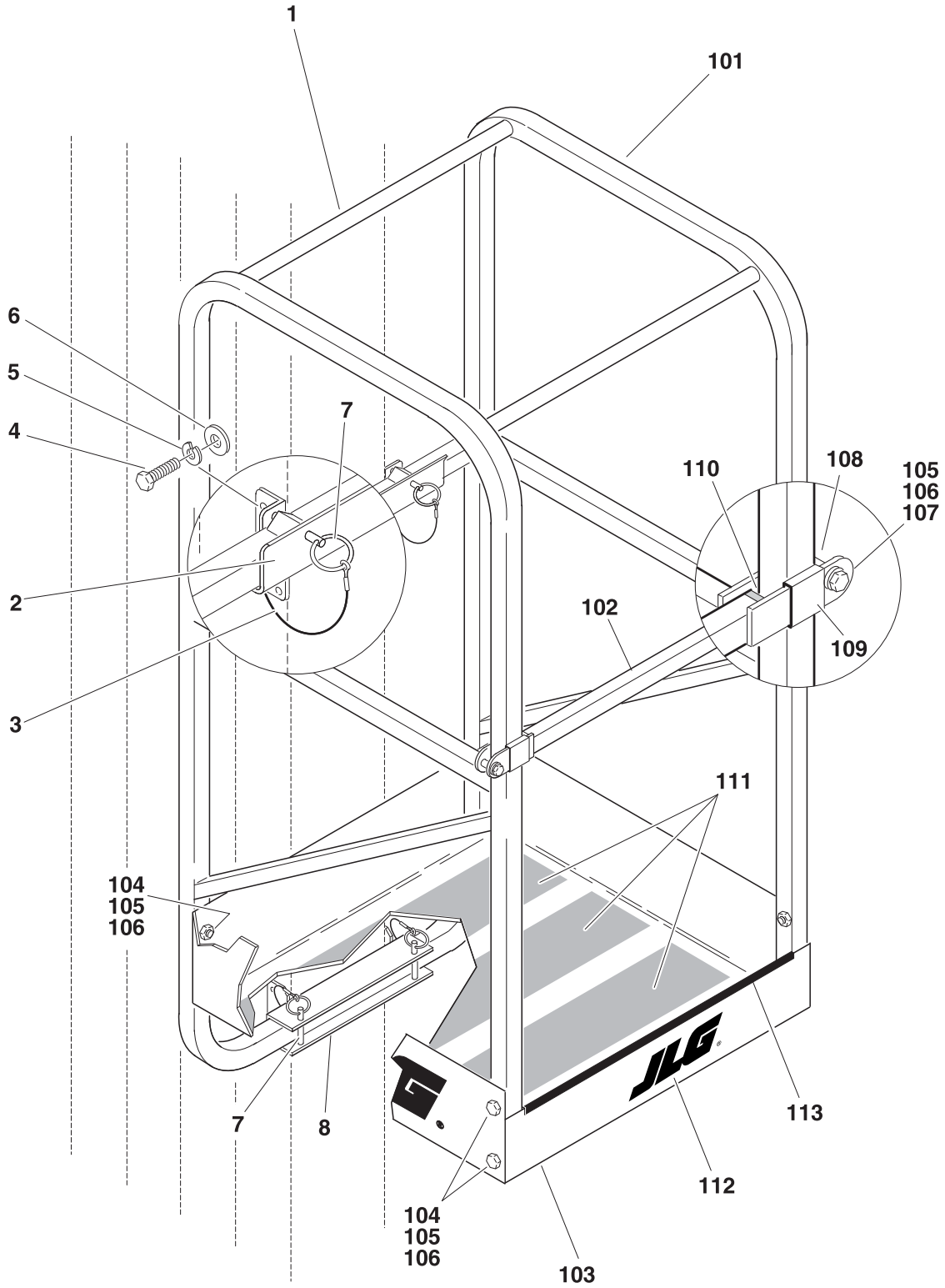
FIGURE 4-2. MOLDED PLATFORM INSTALLATION (S/N 02370 TO PRESENT) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

FIGURE 4-3. QUICK-CHANGE PLATFORM INSTALLATION WITH SLIDE RAIL ENTRY



# SECTION 4 PLATFORM

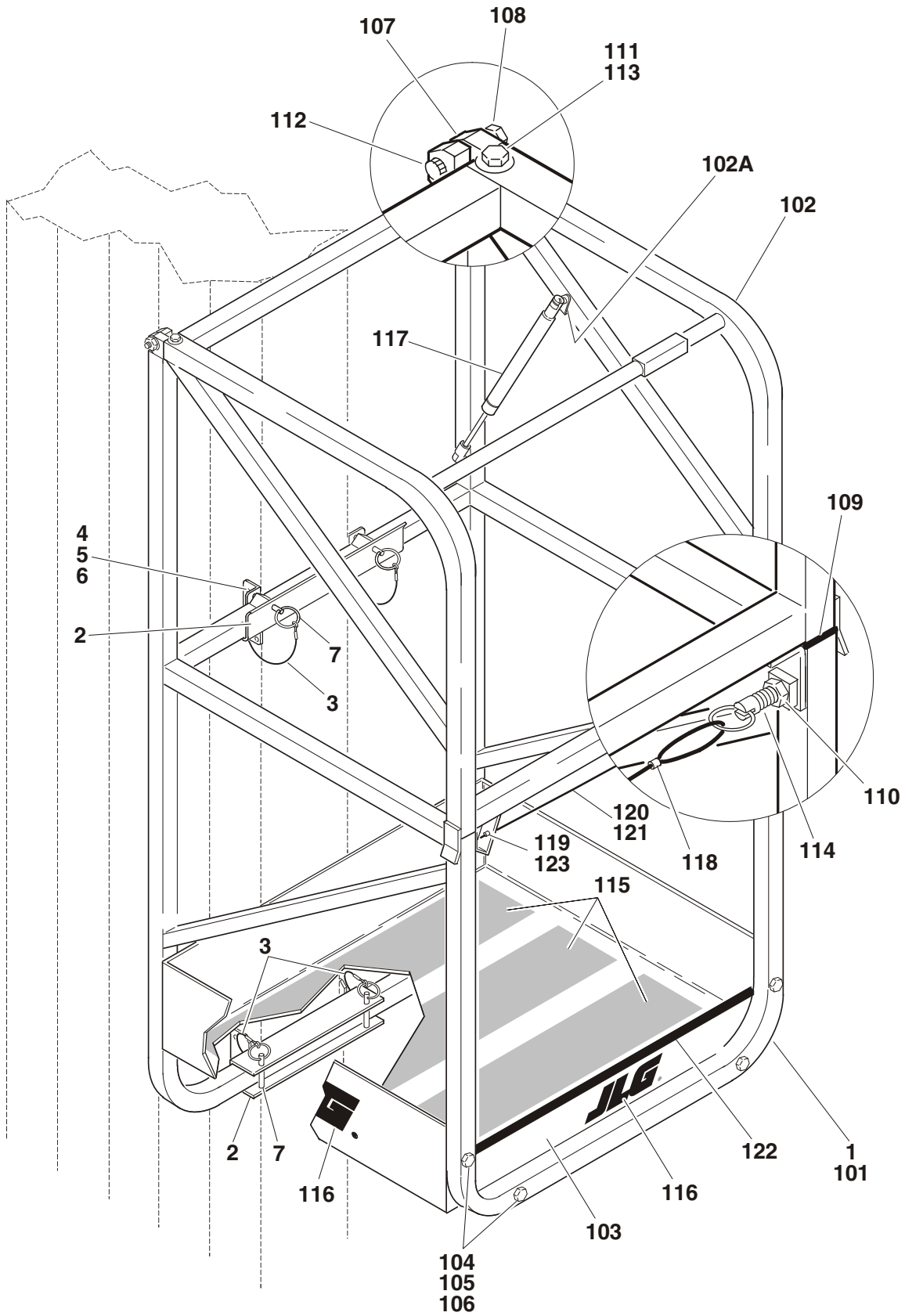
**FIGURE 4-3. QUICK-CHANGE PLATFORM INSTALLATION WITH SLIDE RAIL ENTRY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
	0257928	<b>10VP &amp; 15VP with 26" x 26" (66cm x 66cm)</b>	Ref.	2
	0257620	<b>20VP with 26" x 26" (66cm x 66cm)</b>	Ref.	2
	0258720	<b>10VP &amp; 15VP with 26" x 26" (66cm x 66cm) - CSA Machines</b>	Ref.	2
	0258698	<b>20VP with 26" x 26" (66cm x 66cm) - CSA Machines</b>	Ref.	1
1	0257711	Platform Assembly (See Items 101-113 for Break-down)	1	
2		Weldment, Platform Mount Options:	1	
	4845806	20VP - Standard & CSA Machines		
	4845807	10VP & 15VP - Standard & CSA Machines		
3	1060380	Cable, Lanyard	4	
4	0641408	Bolt 1/4"-20NC x 1"	8	
5	3311405	Locknut 1/4"-20NC	8	
6	4711400	Flatwasher 1/4"	16	
7	3422657	Pin, Ball Detent	4	
8		Weldment, Platform Mount Options:	1	
	4845806	20VP - Standard Machines		
	4845807	10VP & 15VP - Standard Machines		
	4845807	10VP & 15VP - CSA Machines		
	4845847	20VP - CSA Machines		
	0257711	<b>PLATFORM ASSEMBLY</b>	Ref.	6/D
101	4845577	Rail	1	
102		Weldment, Gate Options:	1	
	4845578	Prior to S/N 03836		
	4845797	S/N 03836 to Present		
103	3570435	Plate, Platform Pan	1	
104	0641414	Bolt 1/4"-20NC x 1 3/4"	8	
105	4711400	Flatwasher 1/4" (Narrow)	20	
106	3311405	Locknut 1/4"-20NC	10	
107	0641418	Bolt 1/4"-20NC x 2 1/4"	2	
108	0961845	Bushing	2	
109	4280296	Tape	1.5ft/0.5m	
110	3520169	Cap-Plug	2	
111	4420039	Tape, Non Skid	6ft/1.8m	
112		Decal - JLG	3	
	1701612	Prior to S/N 03905		
	1703681	S/N 03905 to Present		
113	4060803	Shield, Flex-Trim Options:	A/R	
		Prior to S/N 03836	3.8ft/1.16m	
		S/N 03836 to Present	1.9ft/0.6m	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

FIGURE 4-4. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (PRIOR TO S/N 02256)



SECTION 4 PLATFORM

# SECTION 4 PLATFORM

**FIGURE 4-4. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (PRIOR TO S/N 02256)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
	0257927	<b>10VP &amp; 15VP with 25" x 22" (63.5cm x 56cm)</b>	Ref.	1
	0257622	<b>20VP with 25" x 22" (63.5cm x 56cm)</b>	Ref.	1
	0257926	<b>10VP &amp; 15VP with 26" x 28" (66cm x 71cm)</b>	Ref.	1
	0257656	<b>20VP with 26" x 28" (66cm x 71cm)</b>	Ref.	1
1		Platform Assembly (See Items 101-123 for Break-down)	1	
	0257741	25" X 22" (63.5cm x 56cm)		
	0257713	26" X 28" (66cm x 71cm)		
2		Weldment, Platform Mount Options:	2	
	4845663=	10VP & 15VP		
	4845537*	20VP		
3	1060380*=	Cable, Lanyard	4	
4	0641408*=	Bolt 1/4"-20NC x 1"	8	
5	3311405*=	Locknut 1/4"-20NC	8	
6	4711400*=	Flatwasher 1/4"	16	
7	3422657*=	Pin, Ball Detent	4	
	2901552=	Platform Kit - 10VP & 15VP (Includes Items with =)	1	
	2901551*	Platform Kit - 20VP (Includes Items with (*) asterisk)	1	
		<b>PLATFORM ASSEMBLY</b>	Ref.	
	0257741	<b>25" X 22" (63.5cm x 56cm)</b>	Ref.	3
	0257713	<b>26" X 28" (66cm x 71cm)</b>	Ref.	3
101		Weldment, Platform Rail Options:	1	
	4845586	25" X 22" (63.5cm x 56cm)		
	4845583	26" X 28" (66cm x 71cm)		
102		Weldment, Gullwing Gate Options:	1	
	4845585	25" X 22" (63.5cm x 56cm)		
	4845584	26" X 28" (66cm x 71cm)		
102A	0902395	Bracket, Spring (Welded on Part)	1	
103		Plate, Platform Pan Options:	1	
	3570464	25" X 22" (63.5cm x 56cm)		
	3570462	26" X 28" (66cm x 71cm)		
104	0641414	Bolt 1/4"-20NC x 1 3/4"	8	
105	4711400	Flatwasher 1/4" (Narrow)	16	
106	3311405	Locknut 1/4"-20NC	10	
107	2600225	Hinge, Gate	4	
108	3311505	Locknut 5/16"-18NC	2	
109	3520072	Cap-Plug	4	
110	3311802	Nut, Jam 1/2"-13NC	1	
111	3900251	Screw, Button Head 1/4"-20NC x 3/8"	4	
112	3900032	Bolt, Shoulder	2	
113	4711600	Flatwasher 3/8" (Narrow)	4	
114	3422658	Pin, Spring Plunger	1	

**SECTION 4 PLATFORM**

# SECTION 4      PLATFORM

**FIGURE 4-4. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (PRIOR TO S/N 02256) (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
115	4420039	Tape, Non Skid	A/R	
116	1701612	Decal - JLG	3	
117	4160165	Spring, Gas Shock	1	
118		Cable, Eyelet Options:	1	
	4460142	Prior to S/N 01710		
	2180821	S/N 01710 to Present		
119	4220160	Stop, Sleeve	1	
120	1060678	Cable, Gate Latch	1	
121	2820018	Tubing, Shrink	23in/58cm	
122	4060803	Shield, Flex-Trim	A/R	
123	4460121	Connector, Cap	1	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

FIGURE 4-4. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (PRIOR TO S/N 02256) (CONTINUED)

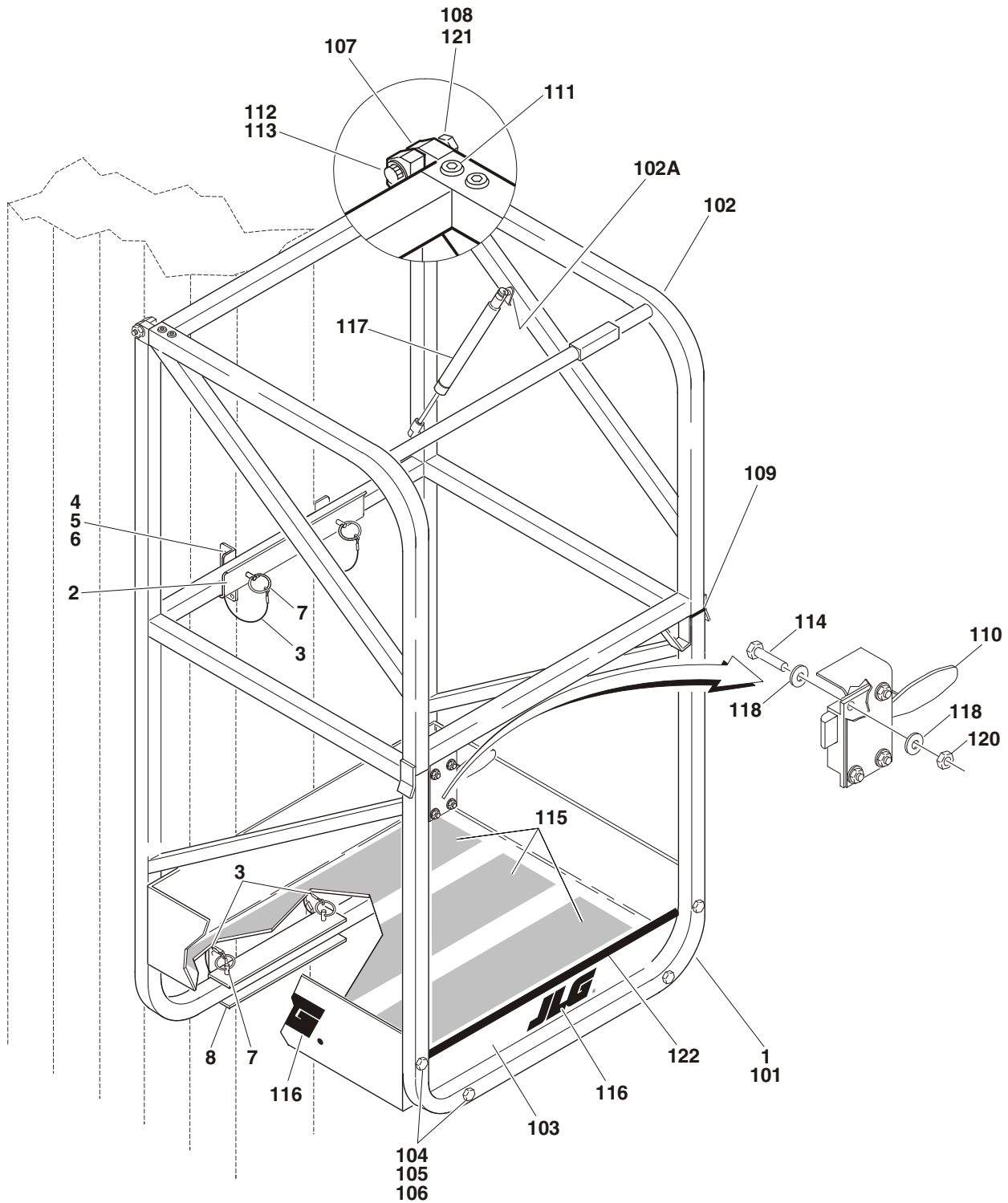
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

FIGURE 4-5. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (S/N 02256 TO PRESENT)

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# SECTION 4 PLATFORM

**FIGURE 4-5. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (S/N 02256 TO PRESENT)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
	0258603	<b>10VP &amp; 15VP with 25" x 22" (63.5cm x 56cm) (Standard Machines)</b>	Ref.	1
	0258722	<b>10VP &amp; 15VP with 25" x 22" (63.5cm x 56cm) (CSA Machines)</b>	Ref.	2
	0258600	<b>20VP with 25" x 22" (63.5cm x 56cm) (Standard Machines)</b>	Ref.	2
	0258700	<b>20VP with 25" x 22" (63.5cm x 56cm) (CSA Machines)</b>	Ref.	1
	0258602	<b>10VP &amp; 15VP with 26" x 28" (66cm x 71cm) (Standard Machines)</b>	Ref.	1
	0258721	<b>10VP &amp; 15VP with 26" x 28" (66cm x 71cm) (CSA Machines)</b>	Ref.	2
	0258599	<b>20VP with 26" x 28" (66cm x 71cm) (Standard Machines)</b>	Ref.	1
	0258699	<b>20VP with 26" x 28" (66cm x 71cm) (CSA Machines)</b>	Ref.	1
1		Platform Assembly (See Items 101-123 for Break-down)	1	
	0258587	25" X 22" (63.5cm x 56cm)		
	0258588	26" X 28" (66cm x 71cm)		
2		Weldment, Platform Mount Options:	1	
	4845807	10VP & 15VP - Standard & CSA Machines		
	4845806	20VP - Standard & CSA Machines		
3	1060380	Cable, Lanyard	4	
4	0641408	Bolt 1/4"-20NC x 1"	8	
5	3311405	Locknut 1/4"-20NC	8	
6	4711400	Flatwasher 1/4"	16	
7	3422657	Pin, Ball Detent	4	
8		Weldment, Platform Mount Options:	1	
	4845806	20VP - Standard Machines		
	4845807	10VP & 15VP - Standard Machines		
	4845847	10VP,15VP & 20VP - CSA Machines		
		<b>PLATFORM ASSEMBLY</b>	Ref.	
	0258587	<b>25" X 22" (63.5cm x 56cm)</b>	Ref.	1
	0258588	<b>26" X 28" (66cm x 71cm)</b>	Ref.	2
101		Weldment, Platform Rail Options:	1	
	4845809	25" X 22" (63.5cm x 56cm)		
	4845808	26" X 28" (66cm x 71cm)		
102		Weldment, Gullwing Gate Options:	1	
	4845805	25" X 22" (63.5cm x 56cm)		
	4845813	26" X 28" (66cm x 71cm)		
102A	Use 0902877	Bracket, Spring (Welded on Part) (was p/n 0902395)	1	

SECTION 4 PLATFORM

# SECTION 4 PLATFORM

**FIGURE 4-5. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (S/N 02256 TO PRESENT) (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
103		Plate, Platform Pan Options:	1	
	3570464	25" X 22" (63.5cm x 56cm)		
	3570462	26" X 28" (66cm x 71cm)		
104	0641414	Bolt 1/4"-20NC x 1 3/4"	8	
105	4711400	Flatwasher 1/4" (Narrow)	16	
106	3311405	Locknut 1/4"-20NC	8	
107	2600225	Hinge, Gate	4	
108	3311505	Locknut 5/16"-18NC	2	
109	3520072	Cap-Plug	4	
110	2940074	Latch	1	
111	3900258	Screw, Button Head 1/4"-20NC x 3/4"	8	
112	3900032	Bolt, Shoulder	2	
113	4711600	Flatwasher 3/8" (Narrow)	4	
114	0721006	Bolt 1/4"-20NC x 3/4"	4	
115	4420039	Tape, Non Skid	A/R	
116	1701612	Decal - JLG	3	
117	4160165	Spring, Gas Shock	1	
118	4751000	Flatwasher #10	8	
119	Not Used			
120	3311005	Locknut #10-24NC	4	
121	3300356	Nut, Acorn 5/16"-18NC	2	
122	4060803	Shield, Flex-Trim	A/R	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

FIGURE 4-5. QUICK-CHANGE PLATFORM INSTALLATION WITH GULLWING GATE (S/N 02256 TO PRESENT) (CONTINUED)

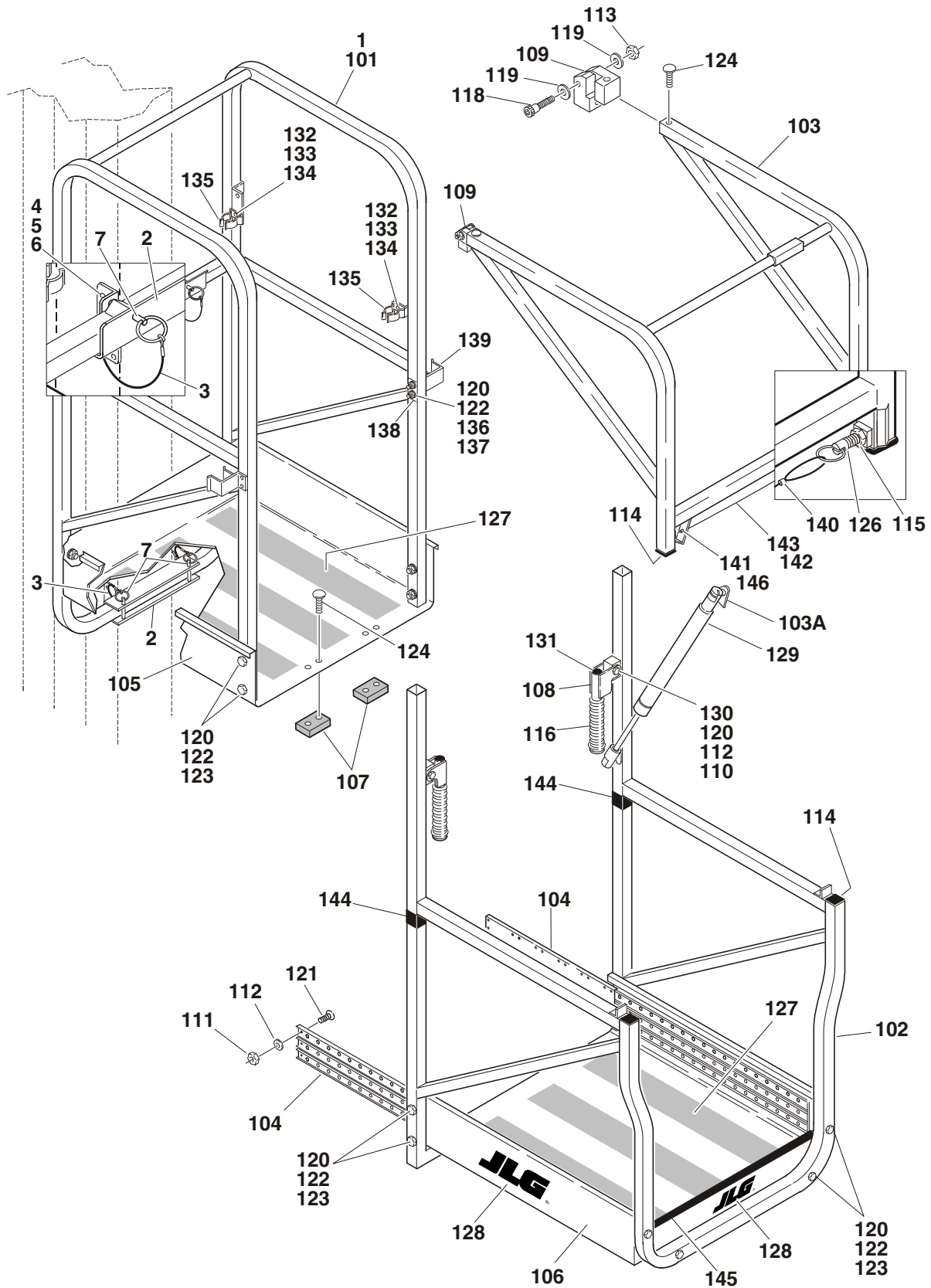
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

FIGURE 4-6. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION  
(PRIOR TO S/N 02256)

SECTION 4 PLATFORM



# SECTION 4 PLATFORM

**FIGURE 4-6. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (PRIOR TO S/N 02256)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
		<b>Note: For use on 20VP Models only. "DO NOT" Install on other Models</b>		
	0257621	<b>20VP with 26" x 50" (66cm x 127cm)</b>	Ref.	1
1	0257672	Platform Assembly (See Items 101-146 for Break-down)	1	
2	4845537*	Weldment, Platform Mount	2	
3	1060380*	Cable, Lanyard	4	
4	0641408*	Bolt 1/4"-20NC x 1"	8	
5	3311405*	Locknut 1/4"-20NC	8	
6	4711400*	Flatwasher 1/4"	16	
7	3422657*	Pin, Ball Detent	4	
	2901551*	----- Platform Kit (Includes Items with (*) asterisk)	1	
	0257672	<b>PLATFORM ASSEMBLY</b>	Ref.	2
101	4845535	Weldment, Platform Rail (Stationary)	1	
102	4845536	Weldment, Platform Rail (Extension)	1	
103	4845545	Weldment, Gullwing Gate	1	
103A	0902395	Bracket, Spring (Welded on part)	1	
104	2020005	Glides, Extension	1 Pair	
105	3570362	Pan, Floor (Stationary)	1	
106	3570274	Pan, Floor (Extension)	1	
107	3340829	Pad, Slide	2	
108	4845614	Handle	2	
109	2600225	Hinge, Gate	4	
110	3900200	Bolt, Shoulder	2	
111	3311005	Locknut #10-24NC	64	
112	4751000	Flatwasher #10	66	
113	3311505	Locknut 5/16"-18NC	2	
114	3520072	Cap-Plug	4	
115	3311802	Nut, Jam 1/2"-13NC	1	
116	2560154	Grip, Handle	2	
117	Not Used			
118	3900032	Bolt, Shoulder	2	
119	4711600	Flatwasher 3/8" (Narrow)	4	
120	3311405	Locknut 1/4"-20NC	22	
121	3900252	Screw, Button Head 1/4"-20NC	64	
122	4711400	Flatwasher 1/4" (Narrow)	40	
123	0641414	Bolt 1/4"-20NC x 1 3/4"	16	
124	3900251	Screw, Button Head 1/4"-20NC	8	
125	0100011	Compound, Locking (Not Shown)	A/R	
126	3422658	Pin, Spring Plunger	1	
127	4420039	Tape, Non Skid	11.5ft/3.5m	
128	1701612	Decal - JLG	3	

SECTION 4 PLATFORM

# SECTION 4 PLATFORM

**FIGURE 4-6. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (PRIOR TO S/N 02256)  
(CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
129	4160165	Spring, Gas Shock	1	
130	4711500	Flatwasher 5/16" (Narrow)	4	
131	3520030	Plug, Hole	2	
132	0720805	Screw #8-32NC x 5/8"	4	
133	4750800	Flatwasher #8	8	
134	3310805	Locknut #8-32NC	4	
135	1380132	Clip, Gripper	4	
136	0641416	Bolt 1/4"-20NC x 2"	4	
137	3570653	Plate, Shim	2	
138	3570654	Plate, Backing	2	
139	4845657	Weldment, Stop	2	
140		Cable, Eyelet Options:	1	
	4460142	Prior to S/N 01710		
	2180821	S/N 01710 to Present		
141	4220160	Stop, Sleeve	1	
142	1060678	Cable, Gate Latch	1	
143	2820022	Tube, Vinyl	19in/49cm	
144	4280296	Strip, Wear	10in/25cm	
145	4060803	Shield, Flex-Trim	A/R	
146	4460121	Connector, Cap	1	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

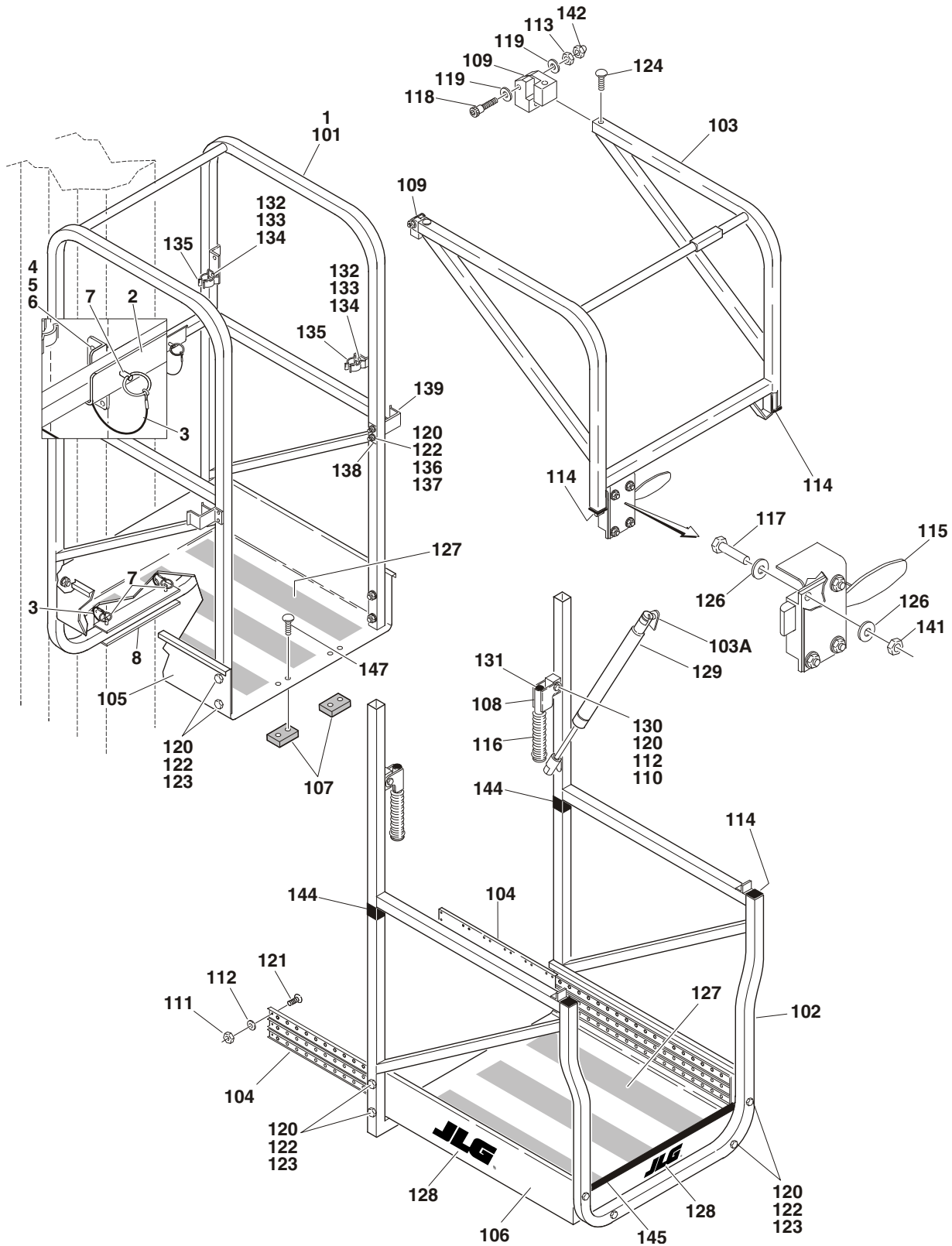
FIGURE 4-6. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (PRIOR TO S/N 02256)  
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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

FIGURE 4-7. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (S/N 02256 TO PRESENT)



SECTION 4 PLATFORM



# SECTION 4 PLATFORM

**FIGURE 4-7. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (S/N 02256 TO PRESENT)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>PLATFORM INSTALLATION OPTIONS:</b>	Ref.	
		<b>Note: For use on 20VP Models only. "DO NOT" Install on other Models</b>		
	0258597	<b>10VP &amp; 20VP with 26" x 50" (66cm x 127cm) (Standard Machines)</b>	Ref.	1
	0258692	<b>20VP with 26" x 50" (66cm x 127cm) (CSA Machines)</b>	Ref.	1
1	0258586	Platform Assembly (See Items 101-146 for Break-down)	1	
2	4845806*	Weldment, Platform Mount	1	
3	1060380*	Cable, Lanyard	4	
4	0641408*	Bolt 1/4"-20NC x 1"	8	
5	3311405*	Locknut 1/4"-20NC	8	
6	4711400*	Flatwasher 1/4"	16	
7	3422657*	Pin, Ball Detent	4	
8		Weldment, Platform Mount Options:	1	
	4845806	Standard Machines		
	4845847	CSA Machines		
		-----		
	2901576*	Platform Kit (Includes Items with (*) asterisk)	1	
	0258586	<b>PLATFORM ASSEMBLY</b>	Ref.	7
101	4845810	Weldment, Platform Rail (Stationary)	1	
102	4845811	Weldment, Platform Rail (Extension)	1	
103	4845812	Weldment, Gate	1	
103A	Use 0902877	Bracket, Spring (Welded on part) (was p/n 0902395)	1	
104	2020005	Glides, Extension	1 Pair	
105	3570362	Pan, Floor (Stationary)	1	
106	3570274	Pan, Floor (Extension)	1	
107	3340829	Pad, Slide	2	
108	4845614	Handle	2	
109	2600225	Hinge, Gate	4	
110	3900200	Bolt, Shoulder	2	
111	3311005	Locknut #10-24NC	64	
112	4751000	Flatwasher #10	66	
113	3311505	Locknut 5/16"-18NC	2	
114	3520072	Cap-Plug	4	
115	2940074	Latch	1	
116	2560154	Grip, Handle	2	
117	0721006	Bolt #10-24NC x 3/4"	4	
118	3900032	Bolt, Shoulder	2	
119	4711600	Flatwasher 3/8" (Narrow)	2	
120	3311405	Locknut 1/4"-20NC	22	
121	3900252	Screw, Button Head 1/4"-20NC	64	
122	4711400	Flatwasher 1/4" (Narrow)	40	

SECTION 4 PLATFORM

# SECTION 4 PLATFORM

**FIGURE 4-7. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (S/N 02256 TO PRESENT) (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
123	0641414	Bolt 1/4"-20NC x 1 3/4"	16	
124	3900258	Screw, Button Head 1/4"-20NC x 3/4"	8	
125	0100011	Compound, Locking (Not Shown)	A/R	
126	4751000	Flatwasher #10	8	
127	4420039	Tape, Non Skid	11ft/3.4m	
128		Decal - JLG Options:	3	
	1701612	Prior to S/N 03609		
	1703681	S/N 03609 to Present		
129	4160165	Spring, Gas Shock	1	
130	4711500	Flatwasher 5/16" (Narrow)	4	
131	3520030	Plug, Hole	2	
132	0720805	Screw #8-32NC x 5/8"	4	
133	4750800	Flatwasher #8	8	
134	3310805	Locknut #8-32NC	4	
135	1380132	Clip, Gripper	4	
136	0641416	Bolt 1/4"-20NC x 2"	4	
137	3570653	Plate, Shim	2	
138	3570654	Plate, Backing	2	
139	4845657	Weldment, Stop	2	
140	Not Used			
141	3311005	Locknut #10-24NC	4	
142	3300356	Nut, Acorn 5/16"-18NC	2	
143	Not Used			
144	4280296	Strip, Wear	10in/25cm	
145	4060803	Shield, Flex-Trim	2.2ft/0.67m	
146	Not Used			
147		Screw, Button Head Options:	4	
	3900258	Screw, Button Head 1/4"-20NC x 3/4" (Production)		
	3900251	Screw, Button Head 1/4"-20NC x 3/8" (Post Production)		

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

FIGURE 4-7. QUICK-CHANGE PLATFORM INSTALLATION WITH EXTENSION (S/N 02256 TO PRESENT) (CONTINUED)

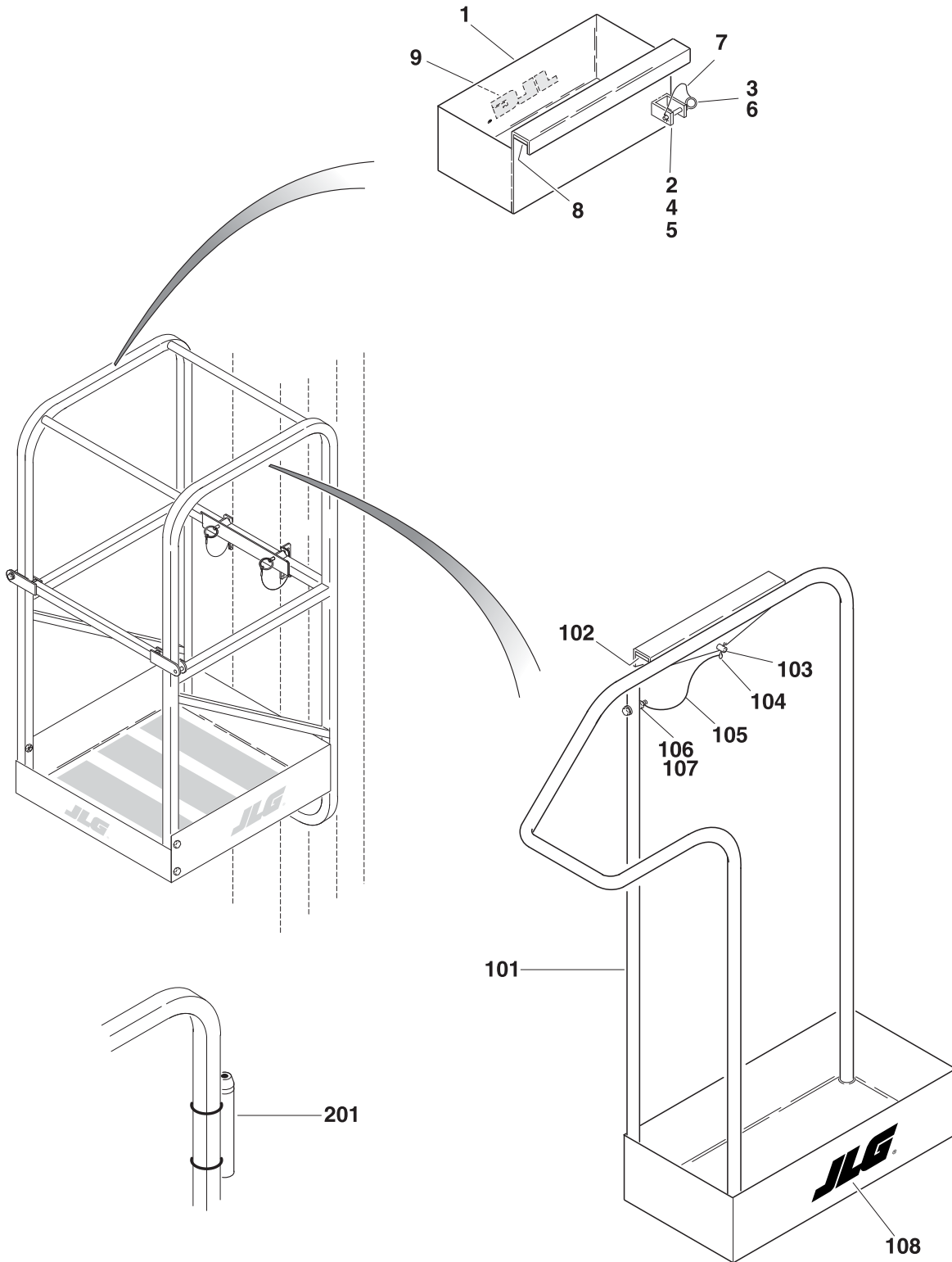
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 4 PLATFORM

FIGURE 4-8.OPTIONAL PLATFORM COMPONENTS INSTALLATION

SECTION  
4  
PLATFORM



# SECTION 4 PLATFORM

**FIGURE 4-8. OPTIONAL PLATFORM COMPONENTS INSTALLATION**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0255036	<b>TOOL TRAY ASSEMBLY</b>	Ref.	
1		Tool Box Weldment (Recommend purchasing 0255036 in place of 0860947)		
2	0902079	Bracket, Mounting	1	
3	3421453	Pin, Snap	1	
4	3900204	Bolt, Carriage #10-24NC x 1/2"	2	
5	3300391	Wingnut #10-24NC	2	
6	3760170	Snap-Pin	1	
7	1060380	Cable, Lanyard	1	
8	4280296	Strip, Wear	4	
9	1702365	Decal - JLG	1	
	0255040	<b>TUBE CADDY ASSEMBLY</b>	Ref.	
101		Tube Caddy Weldment (Recommend purchasing 0255040 in place of 4844840)	1	
102	4280296	Strip, Wear	2	
103	3421453	Pin, Snap	1	
104	3760170	Snap-Pin	1	
105	1060380	Cable, Lanyard	1	
106	0641410	Bolt 1/4"-20NC x 1 1/4"	1	
107	3311405	Locknut 1/4"-20NC	1	
108	1702365	Decal - JLG	1	
	0255853	<b>LASER LOCATOR INSTALLATION</b>	Ref.	A
201	4566847	Tube, Mounting	1	
	0750802	Screw #8 x 1/4"	2	
	1320218	Clamp, Spring	2	
	2920127	Pointer, Laser	1	
	4460425	Connector, Strain Relief	1	

**SECTION 4 PLATFORM**

# SECTION 4 PLATFORM

FIGURE 4-8. OPTIONAL PLATFORM COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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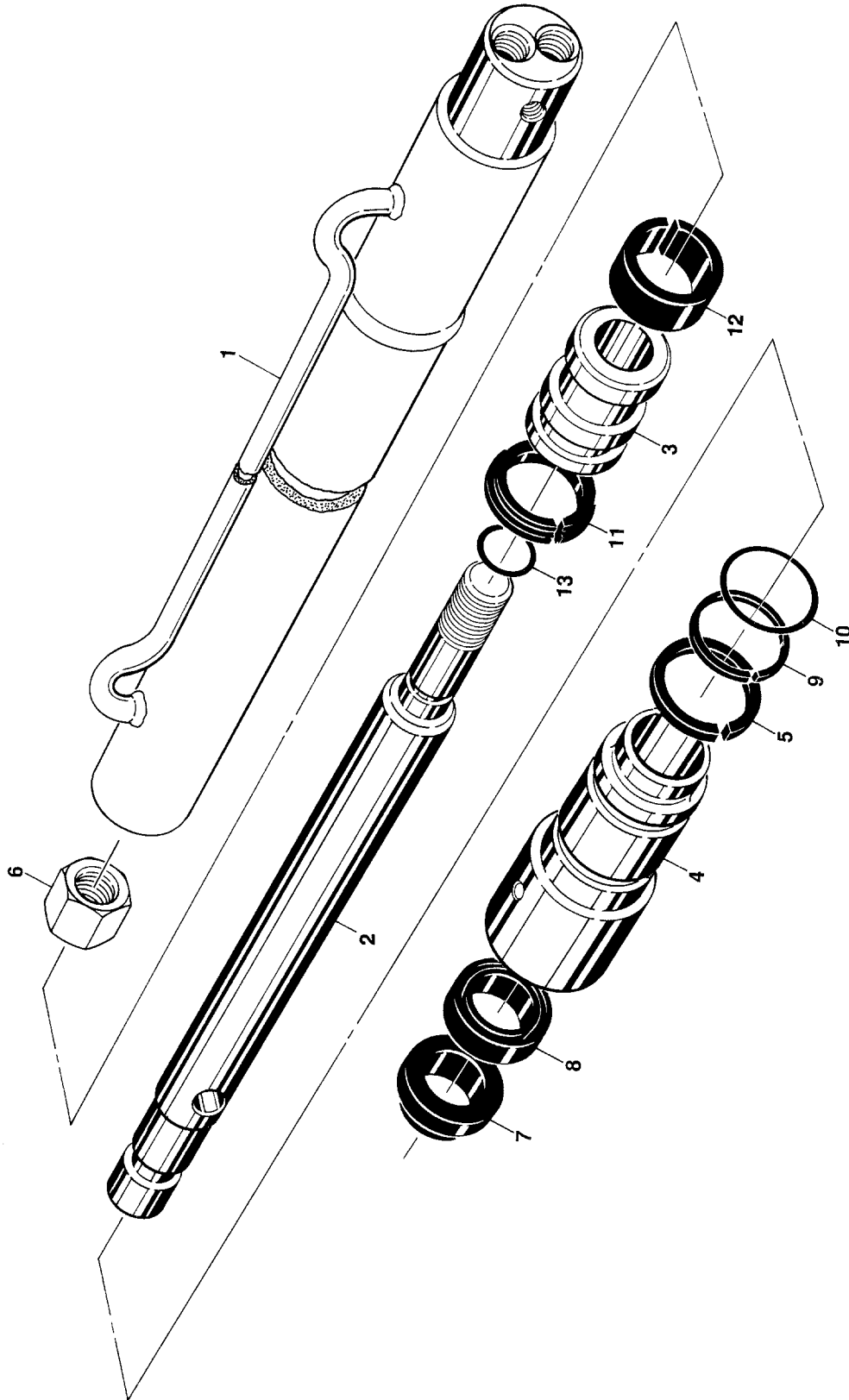
# SECTION 5 CYLINDER

TABLE OF CONTENTS		
FIGURE	DESCRIPTION	PAGE
5-1	LIFT CYLINDER ASSEMBLY .....	5-2

**S  
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# SECTION 5 CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY



SECTION 5 CYLINDER



# SECTION 5      CYLINDER

**FIGURE 5-1. LIFT CYLINDER ASSEMBLY**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	1683201	<b>LIFT CYLINDER ASSEMBLY</b>	Ref.	
1	Not Serviced	Barrel	1	
2	7003250	Rod	1	
3	7003249	Piston	1	
4	7003248	Head	1	
5	7003247	Ring, Retaining	1	
6	7003246	Locknut	1	
7	Kit	Wiper, Rod	1	
8	Kit	Seal, Rod	1	
9	Kit	Ring, Back-Up	1	
10	Kit	O-Ring	1	
11	Kit	Seal, Piston	1	
12	Kit	Ring, Wear	1	
13	Kit	O-Ring	1	
	7003245	----- Seal Kit (Includes Items 7-13)	1	

**SECTION 5  
CYLINDER**

# SECTION 5 CYLINDER

FIGURE 5-1. LIFT CYLINDER ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 6 HYDRAULIC

TABLE OF CONTENTS		
FIGURE	DESCRIPTION	PAGE
6-1	HYDRAULIC DIAGRAM .....	6-2

**S  
E  
C  
T  
I  
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# SECTION 6      HYDRAULIC

**FIGURE 6-1. HYDRAULIC DIAGRAM**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>HYDRAULIC DIAGRAM OPTIONS:</b>	Ref.	
	2792252	<b>10VP &amp; 15VP (Prior to S/N 02289)</b>	Ref.	2
	2792373	<b>10VP &amp; 15VP (S/N 02289 to Present)</b>	Ref.	1
	2792253	<b>20VP (Prior to S/N 02289)</b>	Ref.	2
	2792374	<b>20VP (S/N 02289 to Present)</b>	Ref.	1
1	2220875	Fitting, 90°	1	
2		Fitting, Straight Options:	1	
	2221021	Fitting, Straight (Prior to S/N 02289)		
	2220416	Fitting, 90° (S/N 02289 to Present)		
3	2220472	Fitting, 90°	1	
4	2220603	Fitting, Straight	1	
5	2220507	Fitting, 90°	1	
6	2220473	Fitting, 90°	1	
7		Tube, Extension Options:	1	
	4567186	Prior to S/N 02289		
	4567634	S/N 02289 to Present		
8	4566950	Tube, Return	1	
9		Valve, Flow Control Options:	1	
	4640956	10VP & 15VP		
	4640900	20VP		
10		Pump/Motor/Tank Assembly Options: (See Section 2 for Breakdown)	1	
	3600254	10VP & 15VP		
	3600255	20VP		
11	0100020	Sealant, Pipe (Not Shown)	A/R	
12	2221022	Fitting, Straight (Prior to S/N 02289)	1	

SECTION 6 HYDRAULIC

# SECTION 6 HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 7 ELECTRICAL

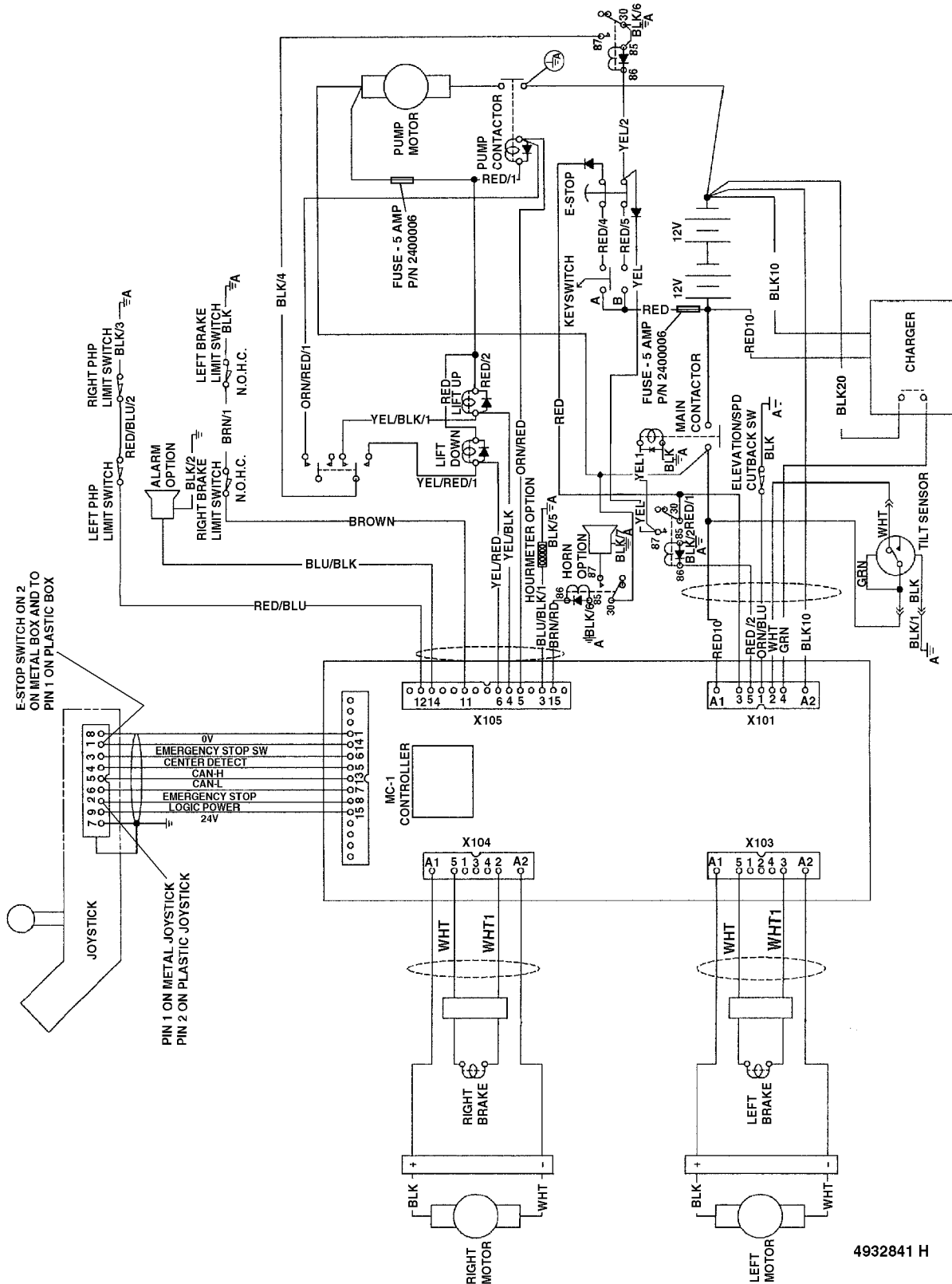
## TABLE OF CONTENTS

FIGURE	DESCRIPTION	PAGE
7-1	ELECTRICAL SCHEMATIC (Prior to S/N 01491) . . . . .	7-2
7-2	ELECTRICAL SCHEMATIC (S/N 01491 to Present) . . . . .	7-3
7-3	ELECTRICAL SCHEMATIC (UL/EE MACHINES) . . . . .	7-4
7-4	HARNESS AND CABLES INSTALLATION (STANDARD MACHINES). . . . .	7-6
7-5	HARNESS AND CABLES INSTALLATION (EE MACHINES) (S/N 03094 to Present) . . . . .	7-12

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# SECTION 7 ELECTRICAL

FIGURE 7-1. ELECTRICAL SCHEMATIC (PRIOR TO S/N 01491)



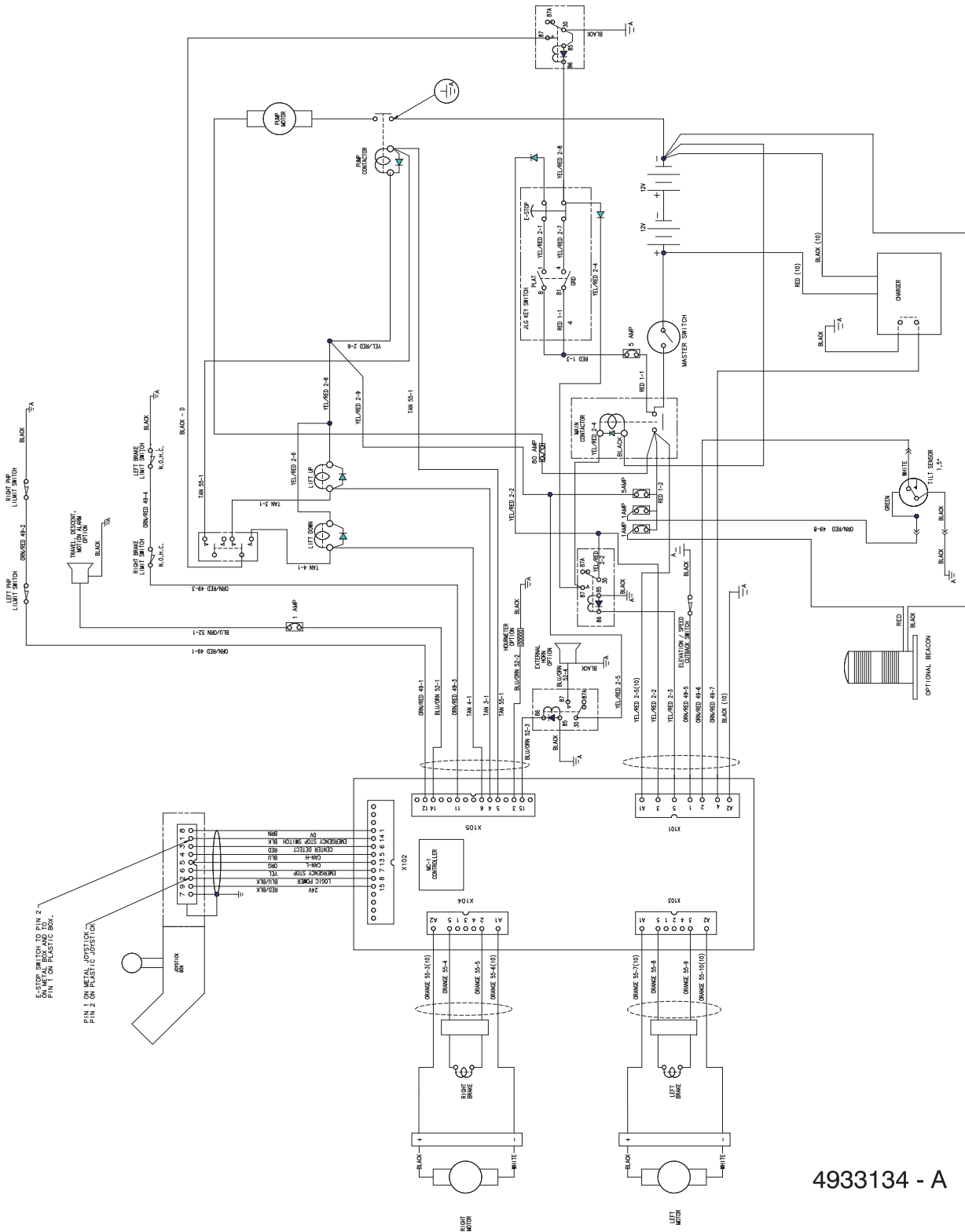
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# SECTION 7 ELECTRICAL

FIGURE 7-3. ELECTRICAL SCHEMATIC (UL/EE MACHINES)



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SECTION 7 ELECTRICAL

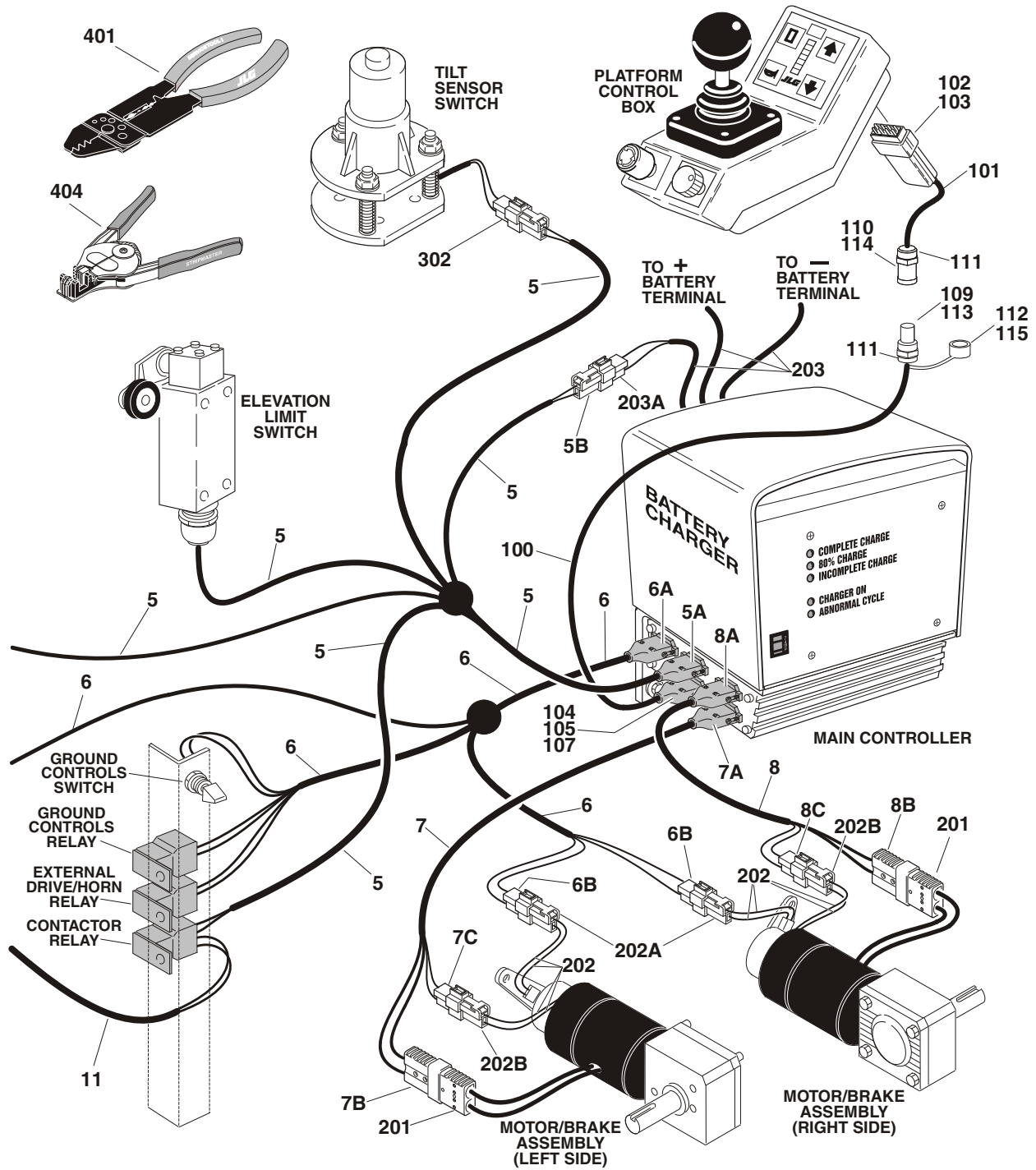
**SECTION 7 ELECTRICAL**

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# SECTION 7 ELECTRICAL



**SECTION 7 ELECTRICAL**

# SECTION 7 ELECTRICAL

**FIGURE 7-4. HARNESS AND CABLES INSTALLATION (STANDARD MACHINES)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>ELECTRICAL DIAGRAM - STANDARD OPTIONS:</b>	Ref.	
	4932841	<b>Standard Machines (Prior to S/N 01491)</b>	Ref.	H
	4932960	<b>Standard Machines (S/N 01491 to Present)</b>	Ref.	A
1	1060620	Cable, Battery - 21"	2	
2	Not Used			
3	1060619	Cable, Battery - 24"	1	
4	1060618	Cable, Battery - 40"	1	
5		Harness - Ground Control Options:	1	
	4921826	Prior to S/N 01491	1	D
	4921966	S/N 01491 to Present	1	3
	3990010	Diode	2	
5A	4460646	Receptacle - 5 Pin	1	
	4460647	Shell, Receptacle	2	
5B	4460320	Connector, Female - 2 Position	1	
	4460268	Socket	2	
6		Harness, Valve & Limit Switch Options:	1	
	4921825	Prior to S/N 01491	1	H
	4921965	S/N 01491 to Present	1	3
	3990010	Diode	5	
6A	4460681	Receptacle - 15 Pin	1	
	4460643	Shell, Receptacle	1	
	4460684	Socket	8	
6B	4460424	Connector, Male - 2 Position	2	
	4460267	Pin	2	
	4460268	Socket	2	
6C	2400006	Fuse - 5 Amp	1	
	4460044	Fuseholder	1	
7		Harness, Left Motor Options:	1	
	4921824	Prior to S/N 01491	1	B
	4921964	S/N 01491 to Present	1	1
7A	4460644	Receptacle - 5 Pin	1	
	4460645	Pin	2	
7B	4460648	Receptacle - 2 Position	1	
7C	4460320	Connector, Female - 2 Position	1	
	4460267	Pin	1	
	4460268	Socket	2	
8		Harness, Right Motor Options:	1	
	4921823	Prior to S/N 01491	1	A
	4921963	S/N 01491 to Present	1	1
8A	4460644	Receptacle - 5 Pin	1	
	4460645	Pin	2	
8B	4460648	Receptacle - 2 Position	1	
8C	4460320	Connector, Female - 2 Position	1	
	4460267	Pin	1	
	4460268	Socket	1	
9	Not Used			
10	Not Used			

**SECTION 7 ELECTRICAL**

# SECTION 7 ELECTRICAL

**FIGURE 7-4. HARNESS AND CABLES INSTALLATION (STANDARD MACHINES)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
11		Harness, Main Contactor	1	
	4921948	Prior to S/N 01491	1	
	4921968	S/N 01491 to Present	1	1
	3990010	Diode - 6 Amp	2	
12	Not Used			
13	Not Used			
14		Harness, Key Switch Power	1	
	4921888	Prior to S/N 01491	1	
	4921967	S/N 01491 to Present	1	1
14A	2400006	Fuse - 5 Amp	1	
	4460044	Fuseholder	1	
100		<b>PLATFORM CONSOLE HARNESS ASSEMBLIES</b>	Ref.	
	4922027	<b>10VP (Prior to S/N 02445)</b>	Ref.	1
	4922201	<b>10VP (S/N 02445 to Present)</b>	Ref.	1
	4922028	<b>15VP (Prior to S/N 02445)</b>	Ref.	1
	4922202	<b>15VP (S/N 02445 to Present)</b>	Ref.	1
	4922029	<b>20VP (Prior to S/N 02445)</b>	Ref.	1
	4922203	<b>20VP (S/N 02445 to Present)</b>	Ref.	1
101	7020216	Harness, Connector (Includes Items 102,103, 110, 111 & 114)	1	
	1060616	Cable, Electrical - 18/8	A/R	
102	4460671	Receptacle - 12 Position	1	
103	4460672	Pin, Female	1	
104	4460682	Receptacle - 15 Socket	1	
105	4460643	Shell, Receptacle (For 15 Socket Receptacle)	1	
106	Not Used			
107	4460683	Pin	8	
108	Not Used			
109	4460771	Plug, Male - 9 Position (S/N 02445 to Present)	1	
110	4460772	Plug, Female - 9 Position (S/N 02445 to Present)	1	
111	4460773	Backshell (S/N 02445 to Present)	2	
112	4460774	Plug, Dust Cap (S/N 02445 to Present)	1	
113	4460775	Pin, Male (S/N 02445 to Present)	9	
114	4460776	Pin, Female (S/N 02445 to Present)	9	
115	4240033	Tie Strap (S/N 02445 to Present)	1	
		<b>MISCELLANEOUS HARNESSES AND COMPONENTS</b>	Ref.	
201	4460648	Receptacle - 2 Position (Located at Drive Motor)	2	
202	Not Available	Harness Assembly - Brake	2	
202A	4460320	Connector, Female - 2 Position	1	
	4460268	Socket	1	
	4460267	Pin	1	
202B	4460424	Connector, Male - 2 Position	1	
	4460268	Socket	1	
	4460267	Pin	1	
203	7018567	DC Battery Charger Harness Assembly	1	

**SECTION 7 ELECTRICAL**

# SECTION 7 ELECTRICAL

**FIGURE 7-4. HARNESS AND CABLES INSTALLATION (STANDARD MACHINES)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
203A	7011621	Connector, Male - 2 Position	1	
	4460267	Pin	2	
		<b>ACCESSORIES HARNESSES AND COMPONENTS</b>	Ref.	
301	Not Available	Beacon Light Harness Assembly	1	
302	4460445	Receptacle - 3 Position (Attach to #5 for Tilt Sensor)	1	
	4460227	Pin	3	
	4460227	Pin	3	
		<b>TOOLS</b>	Ref.	
401	7002821	Crimper (For Wire to Pin/Socket Connections)	1	
402	7002830	Extractor (For Removal of Pin/Socket from Connectors) (Not Shown)	1	
403	Not Used			
404	7002828	Stripper, Wire	1	
405	7016618	Extractor, Pin (16-18 Gauge) (For Removal of Pin/Socket from Connectors at Control Box) (Not Shown)	1	

**SECTION 7 ELECTRICAL**



# SECTION 7 ELECTRICAL

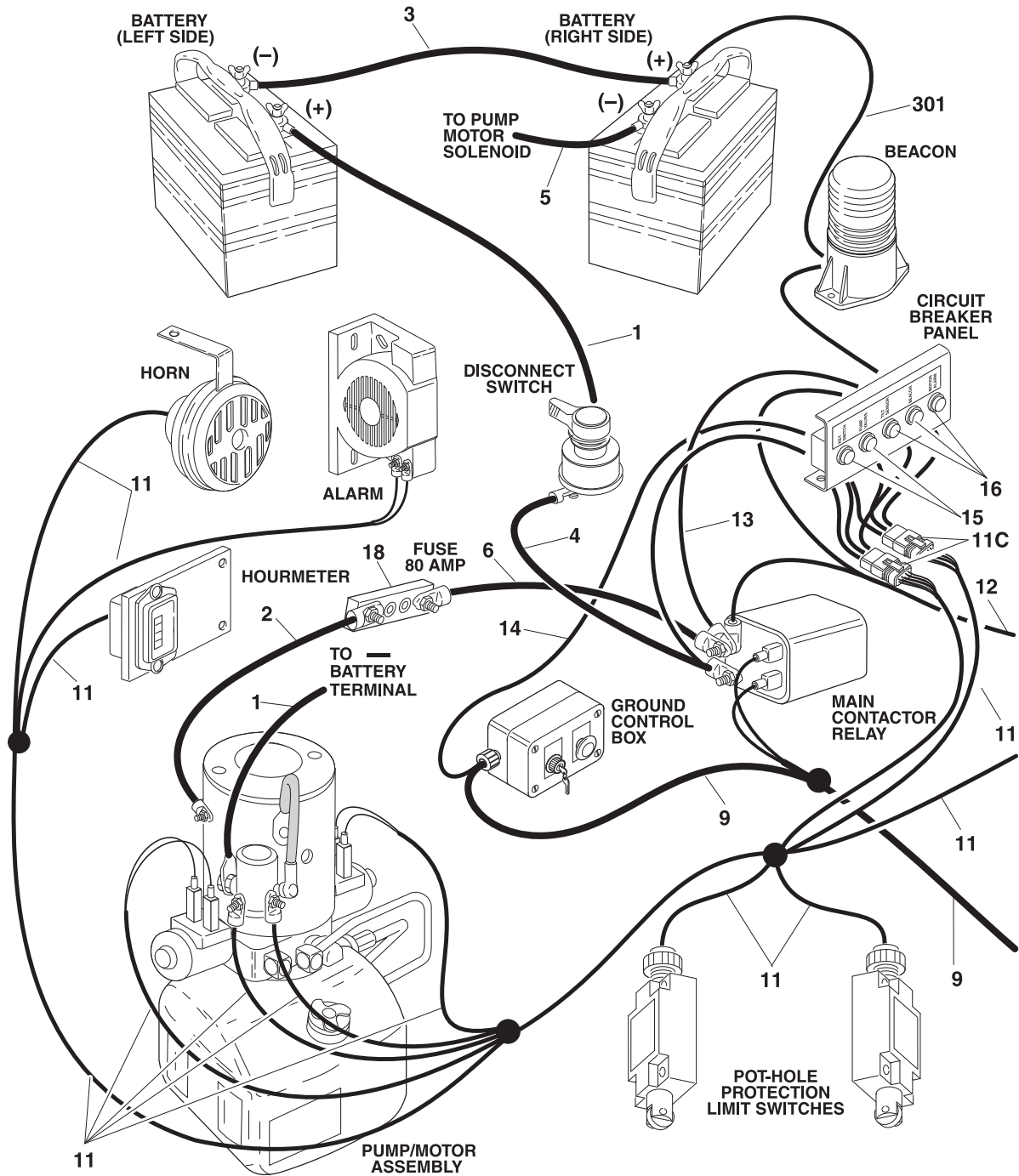
FIGURE 7-4. HARNESS AND CABLES INSTALLATION (STANDARD MACHINES)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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# SECTION 7 ELECTRICAL

FIGURE 7-5. HARNESS AND CABLES INSTALLATION (EE MACHINES) (S/N 03094 TO PRESENT)



SECTION 7 ELECTRICAL



# SECTION 7 ELECTRICAL

**FIGURE 7-5. HARNESS AND CABLES INSTALLATION (EE MACHINES) (S/N 03094 TO PRESENT)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	4933134	<b>ELECTRICAL DIAGRAM - EE MACHINES</b>	Ref.	A
1	1060829	Cable, Battery - 22"	1	
2	1060830	Cable, Battery - 26"	1	
3	1060831	Cable, Battery - 33"	1	
4	1060832	Cable, Battery - 12"	1	
5	1060833	Cable, Battery - 22"	1	
6	1060834	Cable, Battery - 12"	1	
7	4921963	Harness, Right Motor	1	1
7A	4460644	Receptacle - 5 Pin	1	
	4460645	Pin	2	
7B	4460648	Receptacle - 2 Position	1	
7C	4460320	Connector, Female - 2 Position	1	
	4460267	Pin	1	
	4460268	Socket	1	
8	4921964	Harness, Left Motor	1	1
8A	4460644	Receptacle - 5 Pin	1	
	4460645	Pin	2	
8B	4460648	Receptacle - 2 Position	1	
8C	4460320	Connector, Female - 2 Position	1	
	4460267	Pin	1	
	4460268	Socket	2	
9	4921968	Harness, Main Contactor	1	1
	3990010	Diode - 6 Amp	2	
10	Not Used			
11	4922394	Harness, Valve & Limit Switch	1	2
	3990010	Diode	5	
11A	4460681	Receptacle - 15 Pin	1	
	4460643	Shell, Receptacle	1	
	4460684	Socket	8	
11B	4460424	Connector, Male - 2 Position	2	
	4460267	Pin	2	
	4460268	Socket	2	
11C	4460851	Connector, Male - 8 Position	2	
	4460466	Sealing Plug	3	
	4460465	Socket	13	
	4460852	Connector, Female - 8 Position	2	
12	4922395	Harness - Ground Control	1	2
	3990010	Diode	2	
12A	4460646	Receptacle - 5 Pin	1	
	4460647	Shell, Receptacle	2	
12B	4460320	Connector, Female - 2 Position	1	
	4460268	Socket	2	
12C	4460445	Connector, Female - 3 Position	1	
	4460227	Socket	3	
13	4922397	Harness, Breaker Panel	1	
14	4922396	Harness, Key Switch Power	1	
15	4360112	Breaker, 5 Amp	2	

# SECTION 7 ELECTRICAL

**FIGURE 7-5. HARNESS AND CABLES INSTALLATION (EE MACHINES) (S/N 03094 TO PRESENT)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
16	4360491	Breaker, 1 Amp	3	
17	Not Used			
18	2400045	Fuse, 80Amp	1	
100		<b>PLATFORM CONSOLE HARNESS ASSEMBLIES</b>	Ref.	
	4922201	<b>10VP</b>	Ref.	1
	4922202	<b>15VP</b>	Ref.	1
	4922203	<b>20VP</b>	Ref.	1
101	7020216	Harness, Connector (Includes Items 102,103, 110, 111 & 114)	1	
	1060616	Cable, Electrical - 18/8	A/R	
102	4460671	Receptacle - 12 Position	1	
103	4460672	Pin, Female	1	
104	4460682	Receptacle - 15 Socket	1	
105	4460643	Shell, Receptacle (For 15 Socket Receptacle)	1	
106	Not Used			
107	4460683	Pin	8	
108	Not Used			
109	4460771	Plug, Male - 9 Position	1	
110	4460772	Plug, Female - 9 Position	1	
111	4460773	Backshell	2	
112	4460774	Plug, Dust Cap	1	
113	4460775	Pin, Male	9	
114	4460776	Pin, Female	9	
115	4240033	Tie Strap	1	
		<b>MISCELLANEOUS HARNESSES AND COMPONENTS</b>	Ref.	
201	4460648	Receptacle - 2 Position (Located at Drive Motor)	2	
202	Not Available	Harness Assembly - Brake	2	
202A	4460320	Connector, Female - 2 Position	1	
	4460268	Socket	1	
	4460267	Pin	1	
202B	4460424	Connector, Male - 2 Position	1	
	4460268	Socket	1	
	4460267	Pin	1	
203	7018567	DC Battery Charger Harness Assembly	1	
203A	7011621	Connector, Male - 2 Position	1	
	4460267	Pin	2	
		<b>ACCESSORIES HARNESSES AND COMPONENTS</b>	Ref.	
301	Not Available	Beacon Light Harness Assembly	1	
302	4460445	Receptacle - 3 Position (Attach to #5 for Tilt Sensor)	1	
	4460227	Pin	3	
303	4460326	Connector, Male - 3 Position	1	
	4460226	Socket	3	

**SECTION 7 ELECTRICAL**

# SECTION 7 ELECTRICAL

**FIGURE 7-5. HARNESS AND CABLES INSTALLATION (EE MACHINES) (S/N 03094 TO PRESENT)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>TOOLS</b>	Ref.	
401	7002821	Crimper (For Wire to Pin/Socket Connections)	1	
402	7002830	Extractor (For Removal of Pin/Socket from Connectors) (Not Shown)	1	
403	Not Used			
404	7002828	Stripper, Wire	1	
405	7016618	Extractor, Pin (16-18 Gauge) (For Removal of Pin/Socket from Connectors at Control Box) (Not Shown)	1	

**SECTION 7 ELECTRICAL**

# SECTION 8 DECALS

TABLE OF CONTENTS		
FIGURE	DESCRIPTION	PAGE
8-1	DECALS INSTALLATION .....	8-2

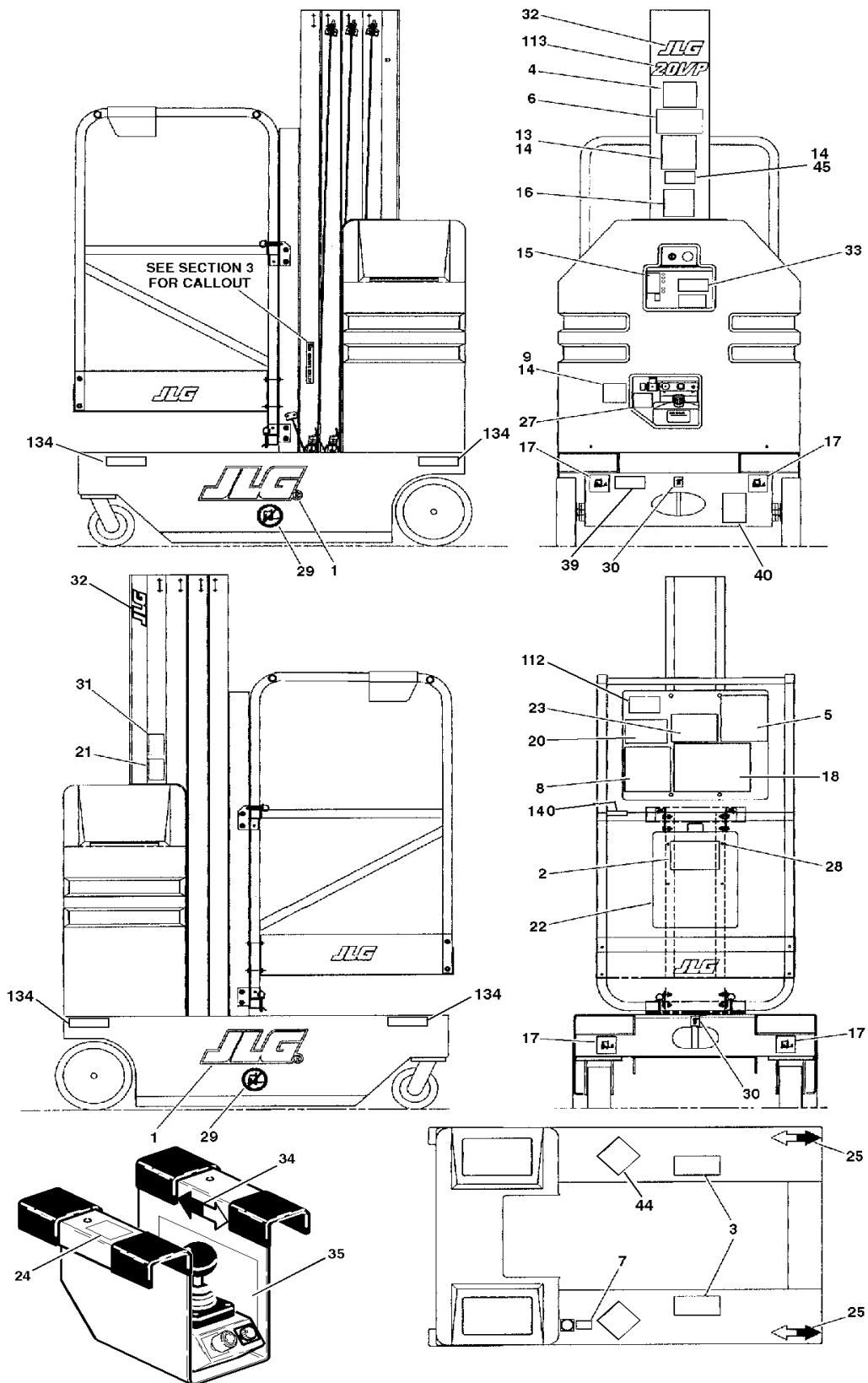
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# SECTION 8

# DECALS

### FIGURE 8-1.DECALS INSTALLATION

SECTION 8  
DECALS





# SECTION 8      DECALS

**FIGURE 8-1. DECALS INSTALLATION**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>DECAL INSTALLATIONS</b>	Ref.	
	0271136	<b>JLG Logo Decals</b>	Ref.	1
	0257930	<b>Standard Decals</b>	Ref.	8
	0257931	<b>Latin American Spanish Spec Decals</b>	Ref.	3
	0257932	<b>Brazil Spec Decals</b>	Ref.	3
	0258001	<b>China Spec Decals</b>	Ref.	2
1	1703625*+=#	Decal - JLG	2	
2		Decal - Read Instructions Options:	1	
	1702110*	Standard		
	1702473+	Latin American Spanish		
	1703592=	Brazil		
	1703741#	China		
3		Decal - Crushing Options:	2	
	1702364*	Standard		
	1702492+	Latin American Spanish		
	1703598=	Brazil		
	1703742#	China		
4	3251813*+=#	Decal - USA	1	
5		Decal - Electrocutation Hazard Options:	1	
	1702361*	Standard		
	1702453+	Latin American Spanish		
	1703595=	Brazil		
	1703743#	China		
6		Decal - Daily Checklist Options:	1	
	1702885*	Standard		
	1703062+	Latin American Spanish		
	1703602=	Brazil		
	1703744#	China		
7		Decal - Leveling Options:	1	
	1702886*	Standard		
	1703202+	Latin American Spanish		
	1703587=	Brazil		
	1703745#	China		
8		Decal - Operation Options:	1	
	1702887*	Standard		
	1703063+	Latin American Spanish		
	1703603=	Brazil		
	1703746#	China		
9	1702922*+=#	Decal - Manual Decent (Prior to S/N 03094)	1	
10	Not Used			
11	Not Used			
12	Not Used			
13	Not Available	Nameplate, Serial Number	1	
14		Rivet Options:	8	
	3820006	Standard, Brazil & China		
	3820031	Latin American Spanish		

SECTION 8 DECALS

# SECTION 8      DECALS

**FIGURE 8-1. DECALS INSTALLATION (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
15		Decal - Explosion/Fire Hazard Options:	1	
	1702437*	Standard		
	1702524+	Latin American Spanish		
	1703601=	Brazil		
	1703747#	China		
16	Not Available	Decal - Bar Code	1	
17	1703073*+=#	Decal - Fork Pockets	2	
18	1702905*+=#	Decal - Joystick	1	
19	Not Used			
20		Decal - Brake Options:	1	
	1703635*	Standard		
	1703646+	Latin American Spanish		
	1703659=	Brazil		
	1703748#	China		
21		Decal - Brake Symbol Options:	1	
	1703636*	Standard		
	1703653+	Latin American Spanish		
	1703660=	Brazil		
	1703749#	China		
22	0860520	Box, Manual Storage	1	
23		Decal - Warning Options:	1	
	1702282*	Standard		
	1703065+	Latin American Spanish		
	1703604=	Brazil		
	1703750#	China		
24		Decal - Control Box Location Options:	1	
	1703684*	Standard		
	1703685+	Latin American Spanish		
	1703686=	Brazil		
	1703751#	China		
25	1703687*+=#	Decal - Arrow	2	
26	Not Used			
27	1702923*+=#	Decal - Ground Controls	1	
28	3820024	Rivet	4	
29	1703072*+=#	Decal - No Forklift	2	
30	1702300*+=#	Decal - Tie Down	2	
31		Decal - Tow/Winching Options:	1	
	1703191*	Standard (Prior to S/N 01713)		
	1703708*	Standard (S/N 01713 to Present)		
	1703735+	Latin American Spanish		
	1703739=	Brazil		
	1703752#	China		
32	1703681*+=#	Decal - JLG	3	
33	1703682*+=#	Decal - Charger Cord Location	1	
34	1703688*+=#	Decal - Arrow	2	

# SECTION 8      DECALS

**FIGURE 8-1. DECALS INSTALLATION (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
35	1703658*	Decal - Operation Options: Standard	1	
	1703711+	Latin American Spanish		
	1703716=	Brazil		
	1703753#	China		
36 to 38	Not Used			
39	1704582	Decal - Manual Descent (S/N 03094 to Present)	1	
40	1700584	Decal - Patent (Standard Machines Only) (S/N 03247 to Present)		
41 to 43	Not Used			
44	1702251	Decal - (EE)	1	
45	3252331	Nameplate - Battery Info	1	
		-----		
		Decal Kit Options:	1	
	2900922*	Standard (Includes Items with (*) asterisk)		
	2900923+	Latin American Spec (Includes Items with (+) plus sign)		
	2900924=	Brazil Spec (Includes Items with (=) equal sign)		
	2910022#	China Spec (Includes Items with (#) number sign)		
		<b>OPTIONAL DECALS INSTALLATION</b>	Ref.	
101 to 111	Not Used			
112		Decal - Capacity Options: Fixed Platform Machines		
	1703243	350Lbs (Standard Machines) (Prior to S/N 02995)		
	1704497	350Lbs/160kg (Standard, Latin American Spanish, Brazil & China Machines) (S/N 02995 to Present)		
	1703235	160kg (Latin American Spanish, Brazil & China Machines) (Prior to S/N 02995)		
		Extendible Platform Machines		
	1703669	350/300Lbs (Standard Machines) (Prior to S/N 02995)		
	1703995	350/250Lbs (CSA Machines) (S/N 02348 to Present)		
	1704496	350/300Lbs 160/135kg (Standard, Latin American Spanish, Brazil & China Machines) (S/N 02995 to Present)		
	1703672	160/135kg (Latin American Spanish, Brazil & China Machines) (Prior to S/N 02995)		
113		Decal - Model Designation Options:	1	
	1702881	10VP		
	1702882	15VP		
	1702883	20VP		
114 to 133	Not Used			
134		Decal - Wheel Load Options: (S/N 02995 to Present)	4	
	1704498	10VP		
	1704499	15VP		
	1704500	20VP		

**SECTION 8 DECALS**

# SECTION 8      DECALS

**FIGURE 8-1. DECALS INSTALLATION (CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
135 to 139 140	Not Used  1703692 1704009 1703726  1703727 1703729	Decal - Extension Capacity Options: Standard CSA (S/N 02348 to Present) Latin American Spanish & Brazil (S/N 01924 to Present) Brazil (Prior to S/N 01924) China	1	

SECTION 8 DECALS

# SECTION 9 RECOMMENDED SERVICE PARTS STOCK

## 10VP/15VP/20VP

The following list will service fleets of machines (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.

JLG PART NUMBER	DESCRIPTION	QTY PER FLEET		
		1-10	10-20	20 OR MORE
<b>STANDARD PARTS</b>				
7014117	Switch, Micro (Figure 1-2)	1	1	1
3740130	Relay 100-Amp (Figure 2-1)	1	1	1
4360314	Switch, Toggle (Figure 2-1)	1	1	1
3740069	Relay, Power 24 VDC (Figure 2-1)	1	1	1
7020078	Switch, Push-Turn (Figure 2-1)	1	1	1
4360471	Switch, Key (Figure 2-1)	1	1	1
7020174	Key, Replacement (Figure 2-1)	1	1	1
1600304	Control Box Assembly (Figure 2-2)	1	1	1
7011509	Breaker, Circuit - DC (Figure 2-3)	1	1	1
7018514	Breaker, Circuit - AC (Figure 2-3)	1	1	1
7018506	Relay (Figure 2-3)	1	1	1
7013723	Filter - Hydraulic (Figure 2-4)	4	8	12
7016714	Breather (Figure 2-4)	1	2	3
3990010	Diode (Figure 7-4 & 7-5)	2	2	2
2400006	Fuse - 5 Amp (Figure 7-4)	2	2	2
4360112	Breaker, 5 Amp (Figure 7-5)	1	1	1
4360491	Breaker, 1 Amp (Figure 7-5)	1	1	1
2400045	Fuse - 80 Amp (Figure 7-5)	1	1	1
<b>VARIABLE PARTS</b>				
4360456	Switch, Limit (Figure 1-4)	1	1	1
4360465	Switch, Tilt (Figure 2-5)	1	1	1
4360437	Switch, Limit (Figure 3-1, 3-2 & 3-3)	1	1	1

**SECTION 9**

**RECOMMENDED SERVICE PARTS**

10VP/15VP/20VP

The following list will service fleets of machines (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.

JLG PART NUMBER	DESCRIPTION	QTY PER FLEET		
		1-10	10-20	20 OR MORE

# SECTION 10 SPECIAL OPTIONS

Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.				
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<b>CABLES &amp; CONTROLS (JAPANESE) (RESTRICTED HEIGHT)</b>	Ref.	
	0257625	10VP	Ref.	
	0257611	15VP	Ref.	
	0257602	20VP	Ref.	
	0256789	<b>CAMERA MOUNT ASSEMBLY</b>	Ref.	
	0400165	<b>CHARGER, BATTERY - JAPANESE SPEC</b>	Ref.	
	1670815	<b>COVER - TRAVEL/STORAGE</b>	Ref.	
	0256719	<b>DECAL INSTALLATION - CSA</b>	Ref.	
	0271120	<b>DECAL INSTALLATION - SUNBELT</b>	Ref.	
	0270949	<b>DECAL INSTALLATION - UNITED RENTALS</b>	Ref.	
	0257938	<b>DECAL INSTALLATION - JAPANESE SPEC</b>	Ref.	
	2910021	<b>DECAL KIT - JAPANESE SPEC</b>	Ref.	
		<b>DECALS JAPANESE SPEC</b>	Ref.	
	1703728	Extension Capacity - 135kg	1	
	1703637	Model Designation - 14VP (Restricted Height)	1	
	1703639	Model Designation - 18VP (Restricted Height)	1	
		<b>MAST (JAPANESE) (RESTRICTED HEIGHT)</b>	Ref.	
	0801121	10VP	Ref.	
	0801116	15VP	Ref.	
	0801114	20VP	Ref.	
	0258799	<b>MATERIAL TRAY</b>	Ref.	
		<b>TOOLS</b>	Ref.	
	0080229	Adapter, Torque Setting Socket (To Set Slip-Clutch Torque)	1	
	2900868	Computer Analyzer Kit (Includes Analyzer, Cable and Instruction Sheet)	1	
	7002821	Crimper (For Wire to Pin/Socket Connections)	1	
	7002830	Extractor (For Removal of Pin/Socket from Connectors)	1	
	7016654	Screwdriver, Magnetic	1	
	7004275	Seal Tool - 1"	1	
	7004276	Seal Tool - 1 1/2"	1	
	7002826	Seal Tool - 2"	1	
	7002828	Stripper, Wire	1	

# SECTION 10 SPECIAL OPTIONS

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Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.				
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.



## SECTION 11 PART NUMBER INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
0080229	10-1	0257932	8-3	0561284	1-6	0901992	3-11
0100011	1-3, 1-5, 1-9, 1-15, 2-3, 3-4, 3-8, 3- 12, 4-3, 4-4, 4-8, 4-21, 4-26	0257938	10-1	0630446	1-3	0901993	3-7, 3-11
0100019	1-6, 1-9, 2-7	0258000	4-3	0630504	2-4	0902042	3-3, 3-7, 3-11
0100020	6-3	0258001	8-3	0630512	1-4	0902047	3-3, 3-7, 3-11
0100035	1-6, 1-9, 1-15, 2-7, 3-4, 3-8, 3-12	0258007	4-3	0641404	1-5, 3-4, 3-8, 3-12	0902079	4-29
0100048	2-8	0258008	2-3	0641405	1-15	0902084	3-12
0100051	2-4	0258017	4-3	0641406	1-3, 1-5, 2-3, 2-7, 2- 17, 3-3, 3-7, 3- 11	0902248	2-3
0100062	3-12, 3-13	0258582	1-5	0641408	1-4, 2-5, 3-8, 3-13, 4-7, 4-11, 4-13, 4-17, 4-21, 4-25	0902250	2-3
0140022	2-17	0258583	1-5	0641409	2-8	0902256	1-4
0140033	2-17	0258586	4-25	0641410	3-7, 3-11, 4-29	0902285	3-4, 3-8, 3-12
0181857	2-3	0258587	4-17	0641412	2-7	0902296	2-17
0255036	4-29	0258588	4-17	0641414	2-8, 4-11, 4-13, 4- 18, 4-21, 4-26	0902297	2-18
0255040	4-29	0258597	4-25	0641416	2-8, 4-3, 4-7, 4-22, 4-26	0902354	2-17
0255853	4-29	0258599	4-17	0641418	4-11	0902356	2-17
0256143	2-3	0258600	4-17	0641505	1-5	0902395	4-13, 4-17, 4-21, 4- 25
0256197	1-5	0258602	4-17	0641507	2-17	0902643	2-3
0256539	2-17	0258603	4-17	0641508	1-3, 2-4	0902649	2-3
0256540	2-17	0258672	4-7	0641512	2-4	0902657	2-4
0256541	2-17	0258692	4-25	0641518	4-3	0902877	4-17, 4-25
0256545	2-17	0258693	1-3	0641528	1-6	0960407	2-8
0256546	2-18	0258698	4-11	0641608	1-3, 1-6, 2-3	0961845	4-11
0256559	3-15	0258699	4-17	0641609	1-3, 1-5, 1-9, 3-15	0962346	2-5
0256719	10-1	0258700	4-17	0641610	1-9, 2-18, 3-3, 3-7, 3-11	1020008	2-8
0256789	10-1	0258718	1-3, 1-9	0641612	1-5	1060380	2-7, 4-7, 4-11, 4-13, 4-17, 4-21, 4-25, 4-29
0256793	1-5	0258720	4-11	0641711	1-9	1060541	3-3, 3-7, 3-12
0256851	1-9	0258721	4-17	0641810	1-4	1060564	2-7
0256928	2-3	0258722	4-17	0641812	3-15	1060616	7-9, 7-15
0257114	3-15	0258799	10-1	0720805	4-22, 4-26	1060618	7-8
0257228	1-3	0258877	4-7	0721005	2-8	1060619	7-8
0257229	1-3	0258878	4-7	0721006	2-3, 4-18, 4-25	1060620	7-8
0257230	1-3	0258879	4-7	0740602	3-4, 3-8, 3-12	1060649	1-15
0257237	1-3	0258881	4-7	0741006	2-4	1060653	3-3, 3-7, 3-11
0257239	1-3	0270068	2-17	0741008	2-4	1060656	3-8
0257241	1-3, 1-9	0270113	3-8, 3-13	0741407	2-3	1060658	1-3, 1-6
0257490	1-15	0270166	2-7	0741605	2-4	1060661	1-6
0257602	10-1	0270167	2-3	0741609	1-9	1060662	1-6
0257611	10-1	0270168	2-7	0741620	3-12	1060678	4-14, 4-22
0257617	2-7	0270169	2-7	0750802	4-29	1060829	7-14
0257618	2-7	0270298	2-4	0801114	10-1	1060830	7-14
0257619	2-7	0270299	2-4	0801116	10-1	1060831	7-14
0257620	4-11	0270352	1-6	0801117	3-3	1060832	7-14
0257621	4-21	0270949	10-1	0801118	3-7	1060833	7-14
0257622	4-13	0271120	10-1	0801121	10-1	1060834	7-14
0257625	10-1	0271136	8-3	0860520	4-3, 8-4	1100103	1-15
0257648	3-15	0362347	4-3, 4-7	0860946	2-8	1180344	2-8
0257656	4-13	0362377	3-3, 3-7, 3-11	0861039	2-3, 2-5	1260298	3-12
0257672	4-21	0362384	4-3	0861291	2-3, 2-5	1260299	3-12
0257711	4-11	0362658	2-4	0861355	2-3, 2-5	1260305	3-11, 3-12
0257713	4-13	0400122	2-4	0861380	2-4	1260306	3-11, 3-12
0257741	4-13	0400144	2-4	0861381	2-4	1271353	3-3, 3-7, 3-11
0257926	4-13	0400164	2-11	0880124	1-5	1271354	3-3, 3-7, 3-11
0257927	4-13	0400165	10-1	0880125	1-5	1271356	3-7, 3-11
0257928	4-11	0400166	2-11			1271357	3-7, 3-11
0257930	8-3	0400173	2-11			1271358	3-11
0257931	8-3	0440221	1-9			1271373	3-3
		0561150	3-12			1320041	1-5
		0561151	3-12				
		0561156	3-12				
		0561159	3-12				

# SECTION 11 PART NUMBER INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
1320043	2-7, 2-8	1703636	8-4	2220875	6-3	3310801	2-7, 2-8
1320149	2-7	1703637	10-1	2221021	6-3	3310805	2-3, 4-22, 4-26
1320218	4-29	1703639	10-1	2221022	6-3	3311001	2-4, 2-8, 2-17, 2-18, 4-3, 4-7
1320227	2-8	1703646	8-4	2400006	7-8, 7-9, 9-1	3311005	1-15, 2-3, 2-5, 4-4, 4-8, 4-18, 4-21, 4-25, 4-26
1380132	2-8, 4-22, 4-26	1703653	8-4	2400044	2-4	3311401	1-5, 3-8, 3-13
1380138	2-5	1703658	8-5	2400045	2-5, 7-15, 9-1	3311405	1-4, 2-3, 2-7, 2-17, 3-3, 3-7, 3-11, 4-3, 4-7, 4-11, 4-13, 4-17, 4-18, 4-21, 4-25, 4-29
1400126	1-9, 1-10	1703659	8-4	2420140	1-5	3311501	1-6, 2-3, 4-3
1600238	2-3	1703660	8-4	2420165	2-17	3311505	1-4, 2-4, 2-17, 4-3, 4-7, 4-13, 4-18, 4-21, 4-25
1600267	2-7, 2-15	1703669	8-5	2540040	2-5	3311601	2-3, 3-3, 3-7, 3-12, 3-15
1600304	2-7, 2-15, 9-1	1703672	8-5	2560150	1-6	3311605	1-3, 1-5, 1-6, 1-9, 2-3, 2-7, 2-18, 3-3, 3-7, 3-11
1600305	2-3	1703681	4-11, 4-26, 8-4	2560154	4-21, 4-25	3311705	1-9
1670815	10-1	1703682	8-4	2600225	4-13, 4-18, 4-21, 4-25	3311802	4-13, 4-21
1683201	3-3, 3-7, 3-11, 5-3	1703684	8-4	2680432	2-4	3311805	1-4
1700584	8-5	1703685	8-4	2700080	2-4	3312002	1-15
1701612	4-11, 4-14, 4-18, 4-21, 4-26	1703686	8-4	2792252	6-3	3340704	3-3, 3-7, 3-11
1702110	8-3	1703687	8-4	2792253	6-3	3340709	3-3, 3-7, 3-12
1702251	8-5	1703688	8-4	2792373	6-3	3340746	4-3, 4-7
1702282	8-4	1703692	8-6	2792374	6-3	3340754	4-3, 4-7
1702300	8-4	1703708	8-4	2820018	4-14	3340829	4-21, 4-25
1702361	8-3	1703711	8-5	2820022	4-22	3340845	3-3, 3-7, 3-11
1702364	8-3	1703716	8-5	2820086	1-3	3380441	2-8
1702364	8-3	1703726	8-6	2860026	1-4	3380453	2-4
1702365	4-29	1703727	8-6	2860027	1-9	3421453	4-29
1702437	8-4	1703728	10-1	2860028	1-13	3422265	3-12
1702453	8-3	1703729	8-6	2860029	1-9	3422266	3-13
1702473	8-3	1703735	8-4	2900868	2-3, 10-1	3422346	3-12
1702492	8-3	1703739	8-4	2900922	8-5	3422361	3-3, 3-7, 3-11
1702524	8-4	1703741	8-3	2900923	8-5	3422657	2-7, 4-7, 4-11, 4-13, 4-17, 4-21, 4-25
1702612	3-15	1703742	8-3	2900924	8-5	3422658	4-13, 4-21
1702881	8-5	1703743	8-3	2901519	3-4	3430630	1-15
1702882	8-5	1703744	8-3	2901520	3-8	3430638	1-15
1702883	8-5	1703745	8-3	2901521	3-12	3440418	1-15
1702885	8-3	1703746	8-3	2901542	2-8	3440520	1-9
1702886	8-3	1703747	8-4	2901551	4-13, 4-21	3450201	3-12, 3-13
1702887	8-3	1703748	8-4	2901552	4-13	3450403	1-15
1702905	8-4	1703749	8-4	2901576	4-25	3510454	4-3
1702922	8-3	1703750	8-4	2910021	10-1	3510477	4-3
1702923	8-4	1703751	8-4	2910022	8-5	3510676	4-7
1703062	8-3	1703752	8-4	2920127	4-29	3520028	4-8
1703063	8-3	1703753	8-5	2920146	2-18	3520030	4-22, 4-26
1703065	8-4	1703995	8-5	2940074	4-18, 4-25	3520072	4-3, 4-7, 4-13, 4-18, 4-21, 4-25
1703072	8-4	1704009	8-6	2940082	4-4, 4-8	3520169	4-11
1703073	8-4	1704277	3-15	3020017	1-3	3539565	2-4
1703175	3-15	1704496	8-5	3020022	1-15	3539617	2-8
1703191	8-4	1704497	8-5	3020035	3-4, 3-8, 3-12	3539659	1-3
1703202	8-3	1704498	8-5	3160217	1-9, 1-13		
1703235	8-5	1704499	8-5	3160234	1-9, 1-13		
1703243	8-5	1704500	8-5	3251813	8-3		
1703455	3-15	1704582	8-5	3252331	8-5		
1703587	8-3	1704584	2-4	3271805	3-15		
1703592	8-3	1704679	2-5	3300047	2-8		
1703595	8-3	1704713	2-4	3300151	4-4, 4-8		
1703598	8-3	2020005	4-21, 4-25	3300202	2-4		
1703601	8-4	2180821	4-14, 4-22	3300356	4-3, 4-18, 4-26		
1703602	8-3	2220416	6-3	3300391	4-29		
1703603	8-3	2220472	6-3	3300392	2-3		
1703604	8-4	2220473	6-3	3300416	2-7		
1703625	8-3	2220507	6-3	3310601	1-4, 2-17		
1703635	8-4	2220603	6-3				

# SECTION 11 PART NUMBER INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
3539660	1-3	3900249	1-15	4360456	1-15, 9-1	4567203	1-15
3539814	3-15	3900251	4-13, 4-21, 4-26	4360465	2-17, 9-1	4567634	6-3
3539964	2-17	3900252	4-21, 4-25	4360471	2-5, 9-1	4568103	2-4
3570094	1-5, 2-3	3900258	4-18, 4-26	4360491	7-15, 9-1	4640900	6-3
3570168	1-9	3910608	2-17	4420039	4-3, 4-11, 4-14, 4-18, 4-21, 4-26	4640956	6-3
3570169	1-9	3910620	1-4, 1-15	4460023	2-8	4700952	1-5
3570172	1-4	3910806	2-8	4460044	7-8, 7-9	4700953	1-5
3570230	1-15	3910812	2-3	4460121	3-4, 3-8, 3-12, 4-14, 4-22	4700954	1-5
3570274	4-21, 4-25	3911010	2-4, 2-17, 2-18	4460142	4-14, 4-22	4711400	1-5, 1-15, 2-7, 2-17, 3-3, 3-7, 3-8, 3-11, 3-13, 4-7, 4-11, 4-13, 4-17, 4-18, 4-21, 4-25
3570312	3-15	3911020	3-4, 3-8, 3-12	4460190	2-8	4711500	1-5, 2-17, 4-3, 4-7, 4-22, 4-26
3570362	4-21, 4-25	3911032	4-3, 4-7	4460226	7-15	4711600	1-4, 2-18, 3-15, 4-13, 4-18, 4-21, 4-25
3570382	1-6	3911410	2-17	4460227	7-10, 7-14, 7-15	4711700	1-9
3570389	3-4, 3-8, 3-12	3911416	2-17	4460267	2-11, 7-8, 7-9, 7-10, 7-14, 7-15	4712000	1-15
3570435	4-11	3930808	1-9	4460268	7-8, 7-9, 7-14, 7-15	4712600	3-11
3570462	4-13, 4-18	3990010	7-8, 7-9, 7-14, 9-1	4460320	7-8, 7-9, 7-14, 7-15	4740120	2-8
3570464	4-13, 4-18	4040259	1-9	4460326	7-15	4740414	3-3, 3-7, 3-11
3570653	4-22, 4-26	4040268	1-9	4460347	2-8	4740428	4-4, 4-8
3570654	4-22, 4-26	4060092	2-8	4460424	2-11, 7-8, 7-9, 7-14, 7-15	4740429	4-4, 4-7
3570680	2-7	4060803	4-11, 4-14, 4-18, 4-22, 4-26	4460425	4-29	4740430	1-4
3570737	2-8	4060804	4-7	4460445	7-10, 7-14, 7-15	4740478	1-9
3572651	2-5	4060805	4-3	4460465	7-14	4750600	1-4, 1-15
3572653	2-4	4060877	3-4, 3-8, 3-12	4460466	7-14	4750800	1-9, 2-3, 2-7, 2-8, 4-22, 4-26
3572654	2-4	4060882	4-3, 4-7	4460549	2-8	4751000	1-4, 2-3, 2-4, 2-8, 2-17, 2-18, 4-3, 4-7, 4-18, 4-21, 4-25, 4-26
3580217	3-3, 3-7, 3-11	4060988	3-8, 3-13	4460566	2-8	4751400	1-3, 1-5, 2-3, 4-3, 4-7
3580226	3-11	4060994	3-8, 3-13	4460633	2-5	4751500	1-3, 2-4, 2-7, 3-3, 3-7, 3-12, 4-3
3580227	3-11	4061004	3-12	4460643	7-8, 7-9, 7-14, 7-15	4751600	1-3, 1-5, 1-6, 1-9, 1-15, 2-3, 3-3, 3-7, 3-11
3580228	3-3, 3-7, 3-11	4070860	3-3, 3-7, 3-11	4460644	7-8, 7-14	4751800	1-4, 3-15
3580231	2-7	4070861	3-3, 3-7, 3-11	4460645	7-8, 7-14	4760600	2-17
3580269	3-3, 3-7, 3-11	4070862	3-3, 3-7, 3-11	4460646	7-8, 7-14	4760800	2-8
3600254	2-13, 6-3	4070875	3-7, 3-12	4460647	7-8, 7-14	4761000	2-4, 2-8, 2-17, 2-18, 3-3, 3-7, 3-11
3600255	2-13, 6-3	4070876	3-8, 3-12	4460648	1-3, 7-8, 7-9, 7-14, 7-15	4761400	3-11
3640923	4-3	4070877	3-8, 3-12	4460662	1-15, 3-4, 3-8, 3-12	4761500	2-4
3640924	4-3, 4-7	4070890	4-3, 4-7	4460671	7-9, 7-15	4761600	2-4, 3-3, 3-7
3640990	4-3, 4-7	4070894	4-4, 4-8	4460672	7-9, 7-15	4845133	3-8
3740069	2-4, 2-17, 9-1	4070958	4-3	4460681	7-8, 7-14	4845258	1-3
3740120	2-3	4160124	3-3, 3-7, 3-11	4460682	7-9, 7-15	4845260	1-4
3740130	2-3, 9-1	4160125	4-3, 4-7	4460683	7-9, 7-15	4845261	1-4
3760170	2-8, 4-29	4160130	2-7	4460684	7-8, 7-14	4845266	2-4
3760393	1-4	4160160	1-15	4460771	7-9, 7-15	4845291	1-4
3820006	2-5, 8-3	4160162	1-15	4460772	7-9, 7-15	4845345	3-15
3820024	2-8, 4-4, 4-8, 8-4	4160164	1-3	4460773	7-9, 7-15	4845401	1-4
3820031	8-3	4160165	4-14, 4-18, 4-22, 4-26	4460774	7-9, 7-15	4845473	1-9
3820032	4-3	4160166	1-6	4460775	7-9, 7-15	4845474	1-3
3841343	1-15	4220160	3-4, 3-8, 3-12, 4-14, 4-22	4460776	7-9, 7-15		
3900032	4-13, 4-18, 4-21, 4-25	4240033	7-9, 7-15	4460851	7-14		
3900174	2-5	4240084	1-6	4460852	7-14		
3900177	4-3, 4-7	4280296	4-11, 4-22, 4-26, 4-29	4566486	3-11		
3900187	3-3, 3-7, 3-11	4300106	2-17	4566487	3-7, 3-11		
3900191	3-3, 3-7, 3-11	4300111	3-12, 3-13	4566838	3-4, 3-8		
3900192	3-3, 3-7, 3-11	4300115	4-3	4566846	3-4		
3900200	2-7, 4-21, 4-25	4360112	7-14, 9-1	4566847	4-29		
3900202	1-15, 4-3, 4-7	4360256	2-4	4566950	6-3		
3900203	4-4, 4-8	4360314	2-4, 9-1	4566960	3-4, 3-8		
3900204	4-29	4360435	2-17	4567186	6-3		
3900205	3-4, 3-8, 3-12	4360437	3-4, 3-8, 3-12, 9-1				
3900206	3-3, 3-7, 3-11						
3900221	1-9						
3900248	1-6						

## SECTION 11 PART NUMBER INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
4845478	1-5	4922395	7-14	7016685	1-10	7018556	2-11
4845507	1-15	4922396	7-14	7016686	1-10	7018557	2-11
4845508	1-15	4922397	7-14	7016687	1-10	7018561	2-11
4845509	1-15	4932841	7-8	7016688	1-10	7018562	2-11
4845535	4-21	4932960	7-8	7016689	1-10	7018563	2-11
4845536	4-21	4933134	7-14	7016690	1-10	7018565	2-11
4845537	4-13, 4-21	7002821	7-10, 7-16, 10-1	7016691	1-10	7018567	2-11, 7-9, 7-15
4845544	3-3, 3-7, 3-11	7002826	10-1	7016710	2-13	7019659	1-3
4845545	4-21	7002828	7-10, 7-16, 10-1	7016711	2-13	7019660	1-3
4845561	1-3	7002830	7-10, 7-16, 10-1	7016712	2-13	7019661	1-3
4845577	4-11	7003245	5-3	7016713	2-13	7019662	1-3
4845578	4-11	7003246	5-3	7016714	2-13, 9-1	7019663	1-3
4845583	4-13	7003247	5-3	7016718	2-13	7020075	2-7
4845584	4-13	7003248	5-3	7016719	2-13	7020076	2-7
4845585	4-13	7003249	5-3	7016720	2-13	7020078	2-5, 9-1
4845586	4-13	7003250	5-3	7016721	2-13	7020096	2-5
4845614	4-21, 4-25	7004275	10-1	7016722	2-13	7020139	2-15
4845657	4-22, 4-26	7004276	10-1	7016723	2-13	7020141	2-15
4845663	4-13	7011455	2-11	7016724	2-13	7020142	2-15
4845797	4-11	7011509	2-11, 9-1	7016735	2-13	7020143	2-15
4845804	1-5	7011528	2-11	7016749	2-13	7020144	2-15
4845805	4-17	7011537	2-11	7017700	2-5	7020145	2-15
4845806	4-7, 4-11, 4-17, 4-25	7011596	2-11	7017701	2-5	7020146	2-15
4845807	4-7, 4-11, 4-17	7011621	7-10, 7-15	7017702	2-5	7020147	2-15
4845808	4-17	7011638	2-11	7017703	2-5	7020174	2-5, 9-1
4845809	4-17	7012637	2-5	7017704	2-5	7020216	7-9, 7-15
4845810	4-25	7013701	2-13	7017705	2-5	7020267	2-5
4845811	4-25	7013708	2-13	7017706	2-5	7022205	2-13
4845812	4-25	7013713	2-13	7017713	2-5	7022206	2-13
4845813	4-17	7013714	2-13	7017715	2-5	7023201	2-15
4845822	4-7	7013715	2-13	7017717	2-13	7023202	2-15
4845831	4-7	7013716	2-13	7018000	1-13	7023341	2-4
4845847	4-7, 4-11, 4-17, 4-25	7013717	2-13	7018001	1-13	7023342	2-4
4845875	1-3, 2-4	7013720	2-13	7018002	1-13	7023351	1-10
4845876	1-4	7013722	2-13	7018005	1-13	7023352	1-10
4845877	1-3	7013723	2-13, 9-1	7018007	1-13	7023353	1-10
4845878	1-4, 2-4	7013727	2-13	7018008	1-13	7023354	1-10
4845879	1-4	7013728	2-13	7018009	1-13	7023355	1-10
4860175	1-3	7013733	2-13	7018010	1-13	7023356	1-10
4860177	1-3	7013743	2-13	7018011	1-13	7023357	1-10
4921823	7-8	7013747	2-13	7018012	1-13	7023358	1-10
4921824	7-8	7013750	2-13	7018013	1-13	7023359	1-10
4921825	7-8	7013758	2-13	7018014	1-13	7023360	1-10
4921826	7-8	7013759	2-13	7018015	1-13	7023361	1-10
4921888	7-9	7013766	2-13	7018018	1-13	7026038	2-15
4921948	7-9	7013770	2-13	7018019	1-13	7026039	2-15
4921963	7-8, 7-14	7013791	2-13	7018026	1-13		
4921964	7-8, 7-14	7013792	2-13	7018027	1-13		
4921965	7-8	7013793	2-13	7018028	1-13		
4921966	7-8	7014117	1-9, 9-1	7018044	1-13		
4921967	7-9	7014118	1-9	7018506	2-11, 9-1		
4921968	7-9, 7-14	7014119	1-9	7018514	2-11, 9-1		
4922027	2-7, 7-9	7014120	1-9	7018535	2-11		
4922028	2-7, 7-9	7016319	2-18	7018537	2-11		
4922029	2-7, 7-9	7016372	2-18	7018550	2-11		
4922201	2-7, 7-9, 7-15	7016618	7-10, 7-16	7018551	2-11		
4922202	2-7, 7-9, 7-15	7016654	10-1	7018553	2-11		
4922203	2-7, 7-9, 7-15	7016683	1-10	7018554	2-11		
4922394	7-14	7016684	1-10	7018555	2-11		





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