



Illustrated Parts Manual

Models

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40e/n40e

45e

P/N

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ANSI



An Oshkosh Corporation Company

REVISION LOG

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REVISION LOG

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FIGURE 1-1. FRAME AND STEERING INSTALLATION - MODEL 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		FRAME WELDMENT OPTIONS:	1	
	2360378	Frame Weldment		
		STEERING AND SPINDLES INSTALLATION	Ref.	
	0252243	PRIOR TO S/N 0300052767	Ref.	8
	0270291	S/N 0300052767 TO PRESENT	Ref.	2
1	Use 1001139010	Hub Assembly (Includes Items 101-107) (was p/n 2780186) Note: Original Equipment Hub p/n 2780186 uses Wheel Bolts. Service Replacement Hub p/n 1001139010 uses pressed in studs - Lugnuts p/n 3300255 must be ordered separately.	2 Ref.	
2	4130286	Spindle Weldment (Includes Items 201-205)	2	
3	3421988	Kingpin	2	
4	3450810	Pin, Cotter 1/4" x 2 1/2"	2	
5	3313003	Nut, Slotted 1 1/4" - 7NC	2	
6	0440162	Washer, Thrust	2	
7	0642016	Bolt 5/8"-16NC x 2"	2	
8	3312005	Locknut 5/8"-16NC	2	
9	3841146	Rod-End	2	
10	3322002	Nut, Jam 5/8"-16NC	2	
11		Steer Cylinder Assembly (See Section 5 for Breakdown)	1	
	1682527	Prior to S/N 37950		
	1683695	S/N 37950 to Present		
12	3340644	Pad, Wear	1	
13	0641510	Bolt 5/16"-18NC x 1 1/4"	2	
14	3311505	Locknut 5/16"-18NC	2	
15	4751500	Flatwasher 5/16"	4	
16	3020022	Grease	A/R	
17	4070809	Shim	A/R	
18	3780182	O-Ring	4	
19	See Note	Bolt, Wheel (Note: Refer to Item 107)	10	
20	0641608	Bolt 3/8"-16NC x 1" (S/N 0300052767 to S/N 0300053809)	2	
21	4740453	Flatwasher 3/8" (S/N 0300052767 to S/N 0300053809)	2	
22	0182002	Angle (S/N 0300052767 to S/N 0300053809)	1	
23	0182000	Angle (S/N 0300052767 to S/N 0300053809)	1	
24	0641514	Bolt 5/16"-18NC x 1 3/4" (S/N 0300052767 to S/N 0300053809)	2	
25	0100019	Loctite (Not Shown) (S/N 0300052767 to S/N 0300053809)	A/R	
26	4711600	Flatwasher 3/8" (Narrow) (S/N 0300052767 to S/N 0300053809)	2	

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FIGURE 1-1. FRAME AND STEERING INSTALLATION - MODEL 30ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	2780186	HUB ASSEMBLY (ORIGINAL EQUIPMENT)	Ref.	C
	1001139010	HUB ASSEMBLY (SERVICE REPLACEMENT) Note: Original Equipment Hub p/n 2780186 uses Wheel Bolts. Service Replacement Hub p/n 1001139010 uses pressed in studs - Lugnuts p/n 3300255 must be ordered separately.	Ref. Ref.	A
101	7012519	Cup, Bearing - Inner (1 Per Hub)	2	
102	7012520	Cone, Bearing - Inner (1 Per Hub)	2	
103	7012521	Cup, Bearing - Outer (1 Per Hub)	2	
104	7012522	Cone, Bearing - Outer (1 Per Hub)	2	
105	7012523	Seal (1 Per Hub)	2	
106	Use 1001102354	Cap, Dust (1 Per Hub) (was p/n 7012524)	2	
107	Use 0630016	Bolt, Wheel (5 Per Hub) (was p/n 7012525) (Used on Original Equipment Hub p/n 2780186)	10	
	7016360	Stud, Wheel (5 Per Hub) (Used on Service Replacement Hub p/n 1001139010) (Not Shown)	10	
	3300255	Lugnut (5 Per Hub) (Used with Service Replacement Hub p/n 1001139010 - Must be purchased separately) (Not Shown)	10	
	2900804	----- Bearing and Seal Kit (Includes Qty 1 of Items 101-105)	2	
	4130286	SPINDLE WELDMENT	Ref.	
201	0961621	Bushing, Bronze (2 Per Spindle)	4	
202	Not Used			
203	7012542	Washer (1 Per Spindle)	2	
204	7012541	Nut, Slotted (1 Per Spindle)	2	
205	7012543	Pin, Cotter (1 Per Spindle)	2	

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FIGURE 1-1. FRAME AND STEERING INSTALLATION - MODEL 30ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

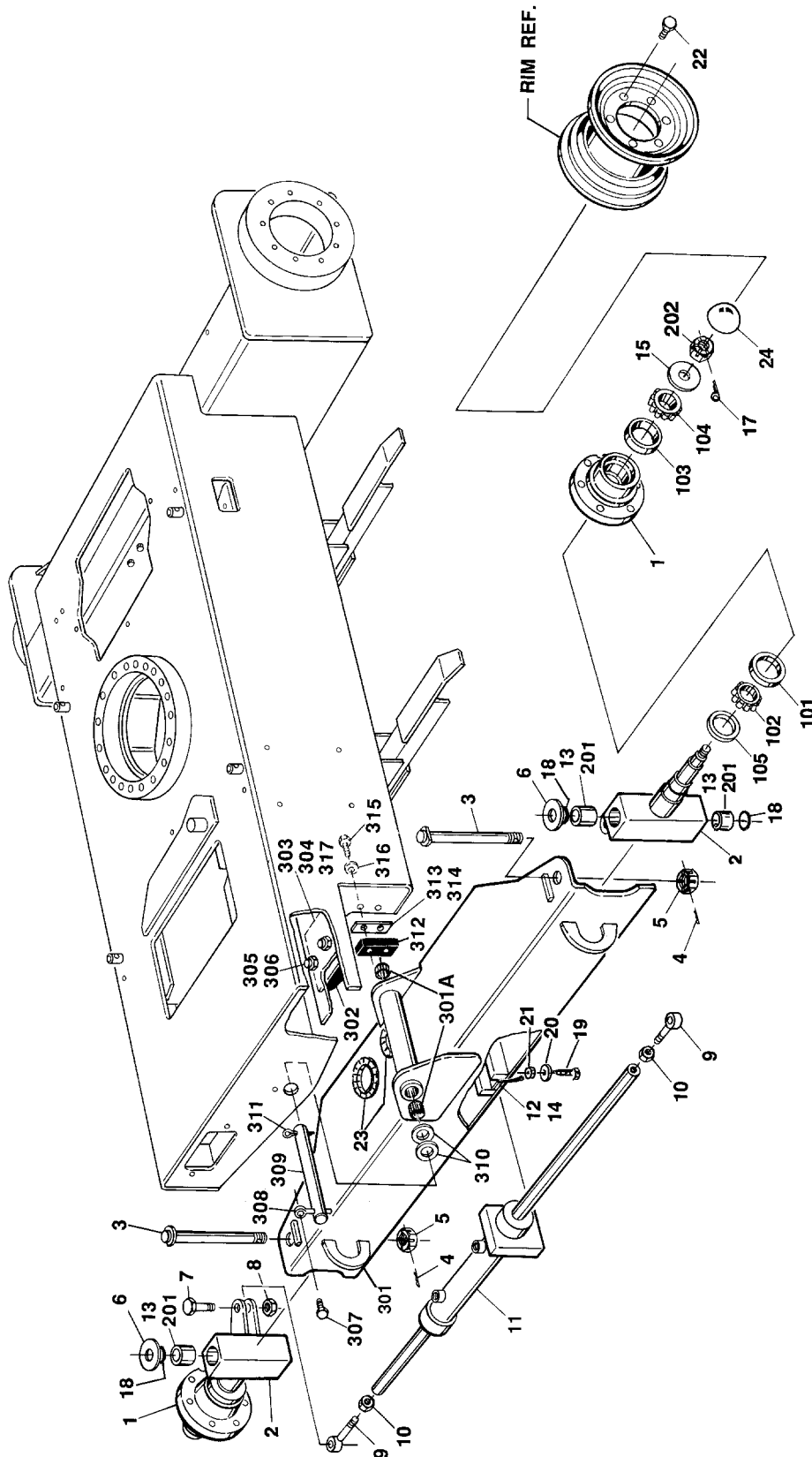
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FIGURE 1-2. FRAME AND STEERING INSTALLATIONS - MODELS 35electric, 40electric & 45electric



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FIGURE 1-2. FRAME AND STEERING INSTALLATIONS - MODELS 35ELECTRIC, 40ELECTRIC & 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		FRAME WELDMENT OPTIONS:	1	
	2360371	Model 35electric (Prior to S/N 24526)		
	2360405	Model 35electric (S/N 24526 to Present)		
	2360375	Model n35electric (Prior to S/N23550)		
	2360404	Model n35electric (S/N23550 to Present)		
	2360372	Model 40electric (Prior to S/N24233)		
	2360406	Model 40electric (S/N24233 to Present)		
	2360373	Model n40electric (Prior to S/N25492)		
	2360407	Model n40electric (S/N25492 to Present)		
	2360379	Model 45electric (Prior to S/N24324)		
	2360408	Model 45electric (S/N24324 to Present)		
	9983829	Lifting Lug Repair Plate (Right) (45electric)	2	
	9983833	Lifting Lug Repair Plate (Left) (45electric)	2	
		STEERING AND SPINDLES INSTALLATIONS		
	0253594	Standard 35/40/45electric Prior to June 1994	Ref.	8/G
	0255011	Standard 35/40/45electric June 1994 to Present	Ref.	4/C
	0253594	CSA 35/40/45electric	Ref.	8/G
	0253735	Standard n35/n40electric Prior to June 1994	Ref.	7/F
	0255012	Standard n35/n40electric June 1994 to Present	Ref.	4/C
	0253735	CSA n35/n40electric	Ref.	7/F
1	2780201	Hub Assembly (See Items 101-107 for Breakdown)	2	
2		Spindle Weldment Options (See items 201-202 for Breakdown):	2	
	4130302	Standard Machines Prior to June 1994		
	4130319	Standard Machines June 1994 to Present		
	4130302	CSA Machines		
3	3421988	Kingpin	2	
4	3450810	Pin, Cotter 1/4" x 2 1/4"	2	
5	3313003	Nut, Slotted 1 1/4 -7NC	2	
6	0440162	Washer, Thrust	2	
7	0642016	Bolt 5/8"-11NC x 2"	2	
8	3312005	Locknut 5/8"-11NC	2	
9	3841146	End, Rod	2	
10	3322002	Nut, Jam 5/8"-18NF	2	
11		Steer Cylinder Assembly (See Section 5 for Breakdown):		
	1682527	35/40/45electric Prior to S/N37950		
	1683695	35/40/45electric S/N37950to Present		
	1682893	n35/n40electric Prior to S/N37950		
	1683696	n35/n40electric S/N37950to Present		
12	3340644	Pad, Wear	1	
13	3020022	Grease	A/R	
14	4070809	Shim	A/R	
15	4712400	Flatwasher 7/8"	2	
16	Not Used			

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FIGURE 1-2. FRAME AND STEERING INSTALLATIONS - MODELS 35ELECTRIC, 40ELECTRIC & 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
17	3450506	Pin, Cotter	2	
18	3780182	O-Ring	4	
19	0641510	Bolt 5/16"-18NC x 1 1/4"	1	
20	4751500	Flatwasher 5/16"	1	
21	3311505	Locknut 5/16"-18NC	1	
22	0630016	Bolt, Wheel 1/2"-20NF x 1"	12	
23	4060808	Trim	2 Ft/.61m	
24	1120457	Cap, Dust	2	
	2780201	HUB ASSEMBLY	Ref.	D
101	Kit	Cup, Bearing - Inner (1 Per Hub)	2	
102	Kit	Cone, Bearing - Inner (1 Per Hub)	2	
103	Kit	Cup, Bearing - Outer (1 Per Hub)	2	
104	Kit	Cone, Bearing - Outer (1 Per Hub)	2	
105	Kit	Seal (1 Per Hub)	2	
	2900842	Bearing Kit (Includes Qty. 1 of Item 101-105)	2	
		SPINDLE ASSEMBLY	Ref.	
201	0961621	Bushing (2 Per Spindle)	4	
202	3322403	Nut, Slotted 7/8"-14NF (1 Per Spindle)	2	
		AXLE INSTALLATIONS	Ref.	
	0253613	35/40/45electric	Ref.	D
	0253734	n35/n40electric	Ref.	D
301		Axle Weldment Options:	1	
	4844324	35/40/45electric		
	4844369	n35/n40electric		
301A	0961621	Bushing	2	
302	0940048	Bumper	2	
303	4070832	Shim 1/2"-13mm	A/R	
304	4070833	Shim 1/16"-1.6mm	A/R	
305	0641814	Bolt 1/2"-13NC x 1 3/4"	4	
306	3311805	Locknut 1/2"-13NC	4	
307	0641608	Bolt 3/8"-16NC x 1"	1	
308	3841143	Pin, Keeper	1	
309	3422170	Pin, Axle	1	
310	4740247	Washer, Thrust	2	
311	3451210	Pin, Cotter 3/8" x 2 1/2"	1	
312	3340450	Pad, Wear	2	
313	4070834	Shim 1/4"-6.4mm	A/R	
314	4070835	Shim 1/16"-1.6mm	A/R	
315	0641610	Bolt 3/8"-16NC x 1 1/4"	4	
316	4751600	Flatwasher 3/8"	4	
317	4070853	Shim 1/32"-.8mm	A/R	

SECTION 1 FRAME

FIGURE 1-2. FRAME AND STEERING INSTALLATIONS - MODELS 35ELECTRIC, 40ELECTRIC & 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0100011	Loctite #242 (Not Shown)	A/R	

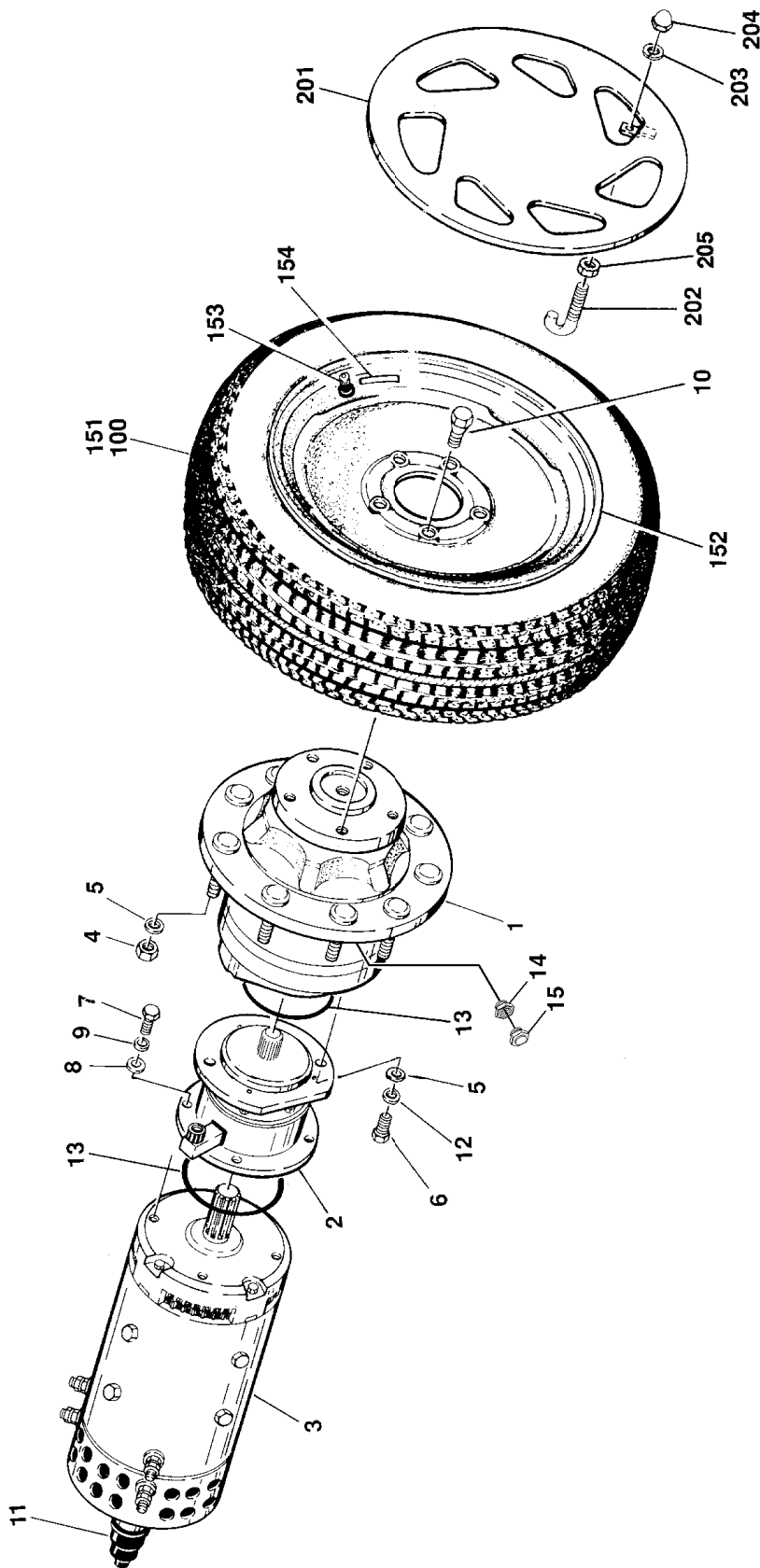
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SECTION 1 FRAME

FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATION



SECTION 1 FRAME

FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATION

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		WHEEL DRIVE INSTALLATIONS		
	0254710	30electric U/L Models	Ref.	8
	0257551	30electric Non-U/L Models	Ref.	1
	0254485	35/40electric U/L Models	Ref.	8
	0257549	35/40electric Non-U/L Models	Ref.	1
	0254485	n35/n40electric U/L Models Prior to October 1994	Ref.	8
	0255111	n35/n40electric U/L Models Oct 1994 to Present	Ref.	3
	0257548	n35/n40electric Non-U/L Models	Ref.	1
	0254599	45electric U/L Models	Ref.	7
	0257550	45electric Non-U/L Models	Ref.	1
1		Drive Hub Assembly Options:	1	
	2780185	30electric (See Figure 1-5 for Breakdown)		
	2780198	35/40/45electric (See Figure 1-6 for Breakdown)		
	2780198	n35/n40electric Non-U/L Models (See Figure 1-6 for Breakdown)		
	2780198	n35/n40electric U/L Models Prior to October 1994 (See Figure 1-6 for Breakdown)		
	2780206	n35/n40electric U/L Models October 1994 to Present (See Figure 1-6 for Breakdown)		
2	0920090	Drive Brake Assy (See Figure 1-4 for Breakdown))	2	
3	3160186	Drive Motor Assembly	2	
	2900811	Repair Kit (Includes All Bearings, Brushes, Springs and Wavy Washer (1 Per Motor)	2	
	7012546	Field Coil Kit (1 Per Motor)	2	
4	3321801	Nut 1/2"-20NF	18	
	0100011	Loctite #242	A/R	
5	4711800	Flatwasher 1/2" Narrow	22	
6	0641811	Bolt 1/2"-13NC	4	
7	0641608	Bolt 3/8"-16NC x 1"	8	
8	4711600	Flatwasher 3/16" Narrow	8	
9	4761600	Lockwasher 3/16"	8	
10	0630016	Bolt, Wheel	A/R	
		30electric	10	
		35/40/45electric	12	
11	3990053	Sensor, Tach Drive	1	
	7012609	Boot, Rubber	1	
12	4761800	Lockwasher 1/2"	4	
13	3790240	O-Ring	2	
14	2220273	Fitting, Reducer (S/N 32280 to Present)	2	
15	2180819	Vent, Breather (S/N 32280 to Present)	2	

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FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		TIRE AND WHEEL INSTALLATION OPTIONS - MODEL 30electric	Ref.	
	0252349	Tire and Wheel Assembly (ST205/75R16 Pneumatic)	Ref.	
	0253347	Tire and Wheel Assembly (26x7x20 Non-Marking)	Ref.	
100	0252352	Tire and Wheel Assembly (ST205/75R16 Pneumatic) (Includes Items 151-154)	4	
	0252431	Tire and Wheel Assembly (ST205/75R16 Foam-Filled) (Sold as an Assembly Only)	4	
	4520151	Tire and Wheel Assembly (26x7x20 Non-Marking) (Sold as an Assembly Only)	4	
		TIRE AND WHEEL INSTALLATION OPTIONS - MODEL 35electric, 40electric AND 45electric	Ref.	
	0256835	Tire & Wheel Assy (G78-15 Pneumatic/6" Rim)	Ref.	
	0254484	Tire & Wheel Assy (LT215/85R16 Pneumatic/8" Rim)	Ref.	
	0256837	Tire & Wheel Assy (G78-15 Foam-Filled/6" Rim)	Ref.	
	0254866	Tire & Wheel Assy (LT215/85R16 Foam-Filled/8" Rim)	Ref.	
	0254120	Tire & Wheel Assy (22x6x16 Solid)	Ref.	
	0254874	Tire & Wheel Assy (6.50x16 Solid Non-Marking)	Ref.	
	0254121	Tire & Wheel Assy (22x6x16 Solid Non-Marking)	Ref.	
100	0256834	Tire & Wheel Assy (G78-15 Pneumatic/6" Rim) (Includes Items 151-154) (Models 35electric and 40electric)	4	
	0256640	Tire & Wheel Assy (G78-15 Pneumatic/8" Rim) (Includes Items 151-154) (Models 35electric and 40electric)	4	
	0254481	Tire & Wheel Assy (LT215/85R16 Pneumatic/8" Rim) (Includes Items 151-154) (Models 35electric and 45electric)	3	
	0253439	Tire & Wheel Assy (ST225/75R15 Pneumatic/8" Rim) (Includes Items 151-154)(Models 35electric and 40electric)	4	
	0256836	Tire & Wheel Assy (G78-15 Foam-Filled/6" Rim) (Models 35electric and 40electric)	4	
	0256642	Tire & Wheel Assy (G78-15 Foam-Filled/8" Rim) (Models 35electric and 40electric)	4	
	0254865	Tire & Wheel Assy (LT215/85R16 Foam-Filled/8" Rim) (Models 35electric and 45electric)	2	
	0253784	Tire & Wheel Assy (ST225/75R15 Foam-Filled/8" Rim) (Models 35electric, 40electric and 45electric)	4	
	4520154	Tire & Wheel Assy (22x6x16 Solid) (Models 35electric and 40electric)	4	
	4520155	Tire & Wheel Assy (22x6x16 Solid Non-Marking) (Models 35electric and 40electric)	4	
	4520159	Tire & Wheel Assy (6.50x16 Solid Non-Marking) (Models 35electric, 40electric and 45electric)	4	

SECTION 1 FRAME

FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
100 (cont'd)	4520198	Tire & Wheel Assy (7.50x15 Solid Static Conductive) (Model 45electric) Note: Assemblies may require ballast/foam filling to manufacturer's specifications prior to installing on a machine. Refer to Operation & Safety or Service & Maintenance Manuals. Purchase individual tire and/or rim only if able to foam fill tire & wheel assembly, otherwise, purchase complete assembly.		
	0256834	TIRE AND WHEEL ASSEMBLY (G78-15 PNEUMATIC /6" RIM) (MODELS 35electric AND 40electric)	Ref.	—
	0256640	TIRE AND WHEEL ASSEMBLY (G78-15 PNEUMATIC /8" RIM) (MODELS 35electric AND 40electric)	Ref.	A
	0254481	TIRE AND WHEEL ASSEMBLY (LT215/85R16 PNEUMATIC/6" RIM) (MODELS 35electric and 45electric)	Ref.	B
	0253439	TIRE AND WHEEL ASSEMBLY (ST225/75R16 PNEUMATIC/8" RIM) (MODELS 35electric and 40electric)	Ref.	B
	0252352	TIRE AND WHEEL ASSEMBLY (ST205/75R16 PNEUMATIC/6" RIM) (MODEL 30electric)	Ref.	B
151		Tire (1 Per Assembly) Options:	4	
	4520184	G78-15 Pneumatic/6" Rim		
	4520184	G78-15 Pneumatic/8" Rim		
	Use 4520265	LT215/85R16 Pneumatic/6" Rim (p/n was 4520156)		
	4520148	ST225/75R16 Pneumatic/8" Rim		
152	4520139	ST205/75R16 Pneumatic/6" Rim	4	
		Rim (1 Per Assembly) Options:		
	4860169	G78-15 Pneumatic/6" Rim		
	4860137	G78-15 Pneumatic/8" Rim		
	4860142	LT215/85R16 Pneumatic/6" Rim		
153	4860137	ST225/75R16 Pneumatic/8" Rim	4	
	4860136	ST205/75R16 Pneumatic/6" Rim		
	4640392	Stem, Valve		
	154	Decal - Tire Pressure (1 Per Assembly) Options:		4
154	1701812	G78-15 Pneumatic/6" Rim	4	
	1701812	G78-15 Pneumatic/8" Rim		
	1702275	LT215/85R16 Pneumatic/6" Rim (Prior to September 1995)		
	1702740	LT215/85R16 Pneumatic/6" Rim (September 1995 to Present)		
	1701812	ST225/75R16 Pneumatic/8" Rim		
	1701643	ST205/75R16 Pneumatic/6" Rim		

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FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		Note: Assemblies may require ballast/foam filling to manufacturer's specifications prior to installing on a machine. Refer to Operation & Safety or Service & Maintenance Manuals. Purchase individual tire and/or rim only if able to foam fill tire & wheel assembly, otherwise, purchase complete assembly.		
		HUBCAP INSTALLATION (OPTIONAL)		
	0252754	Use on Model 30electric	Ref.	B
	0253864	Use on Model 35electric/40electric with 8" Rim/ Pneumatic and 8" Rim/Foam-Filled Tires. use on Model 45electric with 8" Rim/Foam-Filled Tires.	Ref.	B
	0254590	Use on Models 35electric and 45electric with 8" Rim /Pneumatic Tires.	Ref.	C
	0256832	Use on Model 35electric/40electric/45electric with 6" Rims	Ref.	—
	0254155	Use on Model 35electric and 40electric with Solid Tires	Ref.	B
201		Hubcap Options:	4	
	1670633	Model 30electric		
	1670633	Model 35electric/40electric with 8" Rim/ Pneumatic and 8" Rim/Foam-Filled Tires. use on Model 45electric with 8" Rim/Foam-Filled Tires.		
	1670810	Models 35electric and 45electric with 8" Rim / Pneumatic Tires.		
	1670808	Model 35electric/40electric/45electric with 6" Rims		
	1670692	Model 35electric and 40electric with Solid Tires	4	
202		Bolt Options:	8	
	0630455	J-Bolt 5/16"-18NC - Model 30electric		
	0630465	J-Bolt 5/16"-18NC - Model 35electric/40electric with 8" Rim/ Pneumatic and 8" Rim/Foam-Filled Tires. use on Model 45electric with 8" Rim/ Foam-Filled Tires.		
	0641510	Bolt 5/16"-18NC x 1 1/4" - Models 35electric and 45electric with 8" Rim /Pneumatic Tires.		
	0630513	J-Bolt 5/16"-18NC - Model 35electric/40electric/ 45electric with 6" Rims		
	0641518	Bolt 5/16"-18NC x 2 1/4" - Model 35electric and 40electric with Solid Tires		
203	4761500	Lockwasher 5/16"	8	
204		Nut, Acorn 5/16"-18NC Options:	8	
	3300356	Model 30electric		
	3300356	Model 35electric/40electric with 8" Rim/ Pneumatic and 8" Rim/Foam-Filled Tires. use on Model 45electric with 8" Rim/Foam-Filled Tires.		
	Not Required	Models 35electric and 45electric with 8" Rim / Pneumatic Tires.		
	3300356	Model 35electric/40electric/45electric with 6" Rims		

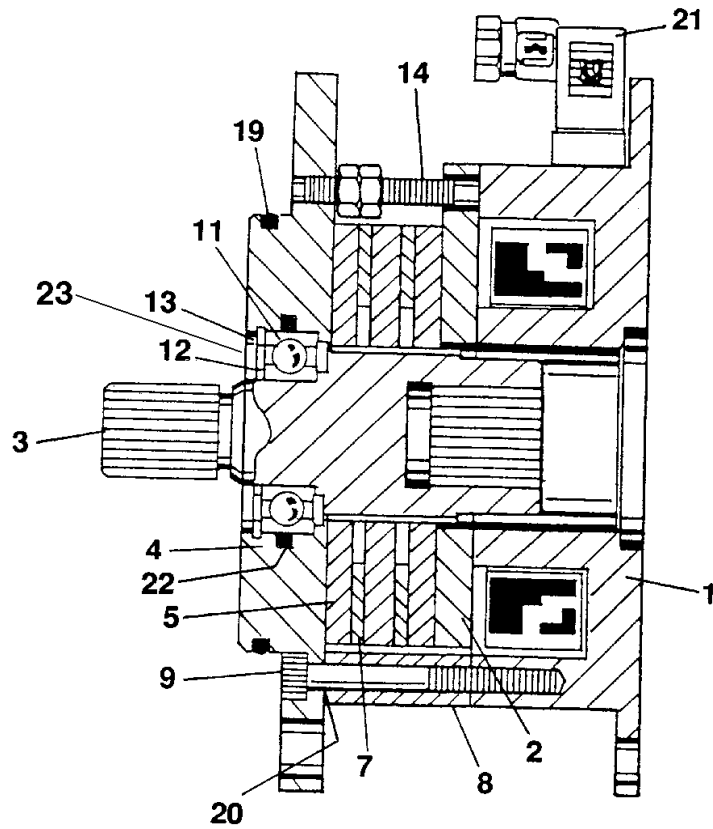
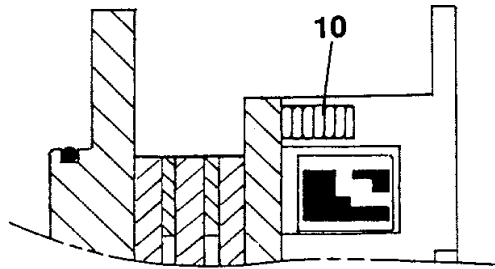
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FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
205	Not Required	Model 35electric and 40electric with Solid Tires	8	
	3311501	Nut 5/16"-18NC Options: Model 30electric		
	3311501	Model 35electric/40electric with 8" Rim/ Pneumatic and 8" Rim/Foam-Filled Tires. use on Model 45electric with 8" Rim/Foam-Filled Tires.		
	Not Required	Models 35electric and 45electric with 8" Rim / Pneumatic Tires.		
	3311501	Model 35electric/40electric/45electric with 6" Rims		
Not Required	Model 35electric and 40electric with Solid Tires			

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FIGURE 1-4. DRIVE BRAKE ASSEMBLY



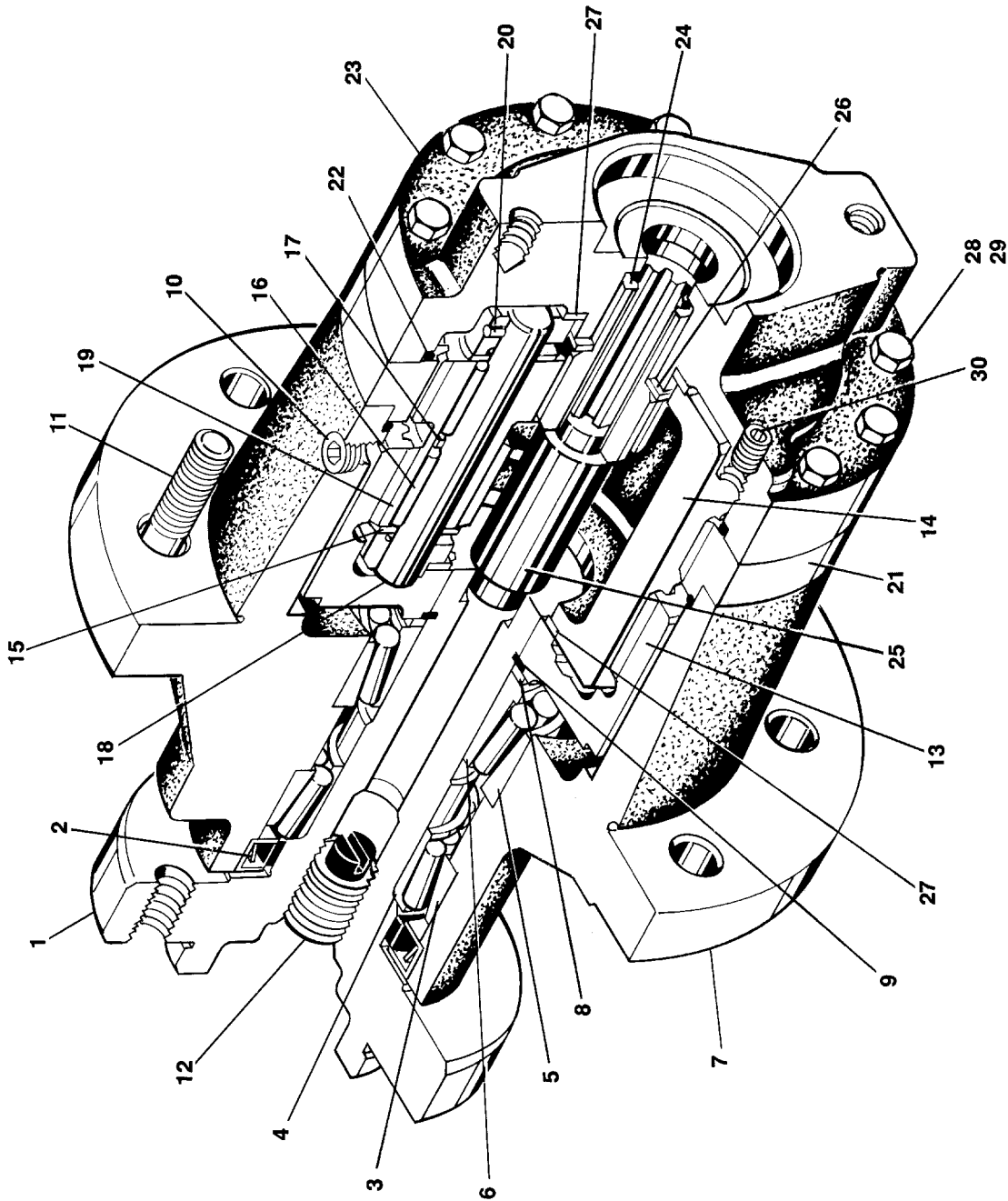
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FIGURE 1-4. DRIVE BRAKE ASSEMBLY

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0920090	DRIVE BRAKE ASSEMBLY	Ref.	B
1	7012552	Magnet and Coil Assembly	1	
2	7012582	Armature	1	
3	7012554	Shaft	1	
4	Not Available	Plate, Mounting	1	
5	Kit	Plate, Friction (Solid)	3	
6	Not Used			
7	Kit	Plate, Outer	2	
8	7012692	Spacer	3	
9	7014116	Bolt, Metric Socket Head	3	
10	Kit	Spring, Compression	8	
11	7026609	Bearing, Ball	1	
12	7014129	Ring, Retainer (External)	1	
13	7014130	Ring, Retainer (Internal)	1	
14	7012689	Manual Release Assembly	3	
15 to 18	Not Used			
19	3790240	O-Ring	1	
20	7012691	Shim	A/R	
21	7012580	Connector, Electrical	1	
	7014127	Plug, Base	1	
22	3790225	O-Ring (January 1995 to Present)	1	
23	7014128	Seal (S/N 50521 to Present)	1	
	7012583	Repair Kit (Includes Items 5,7,10,11 & 22)	1	

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FIGURE 1-5. DRIVE HUB ASSEMBLY - MODEL 30electric



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FIGURE 1-5. DRIVE HUB ASSEMBLY - MODEL 30ELECTRIC

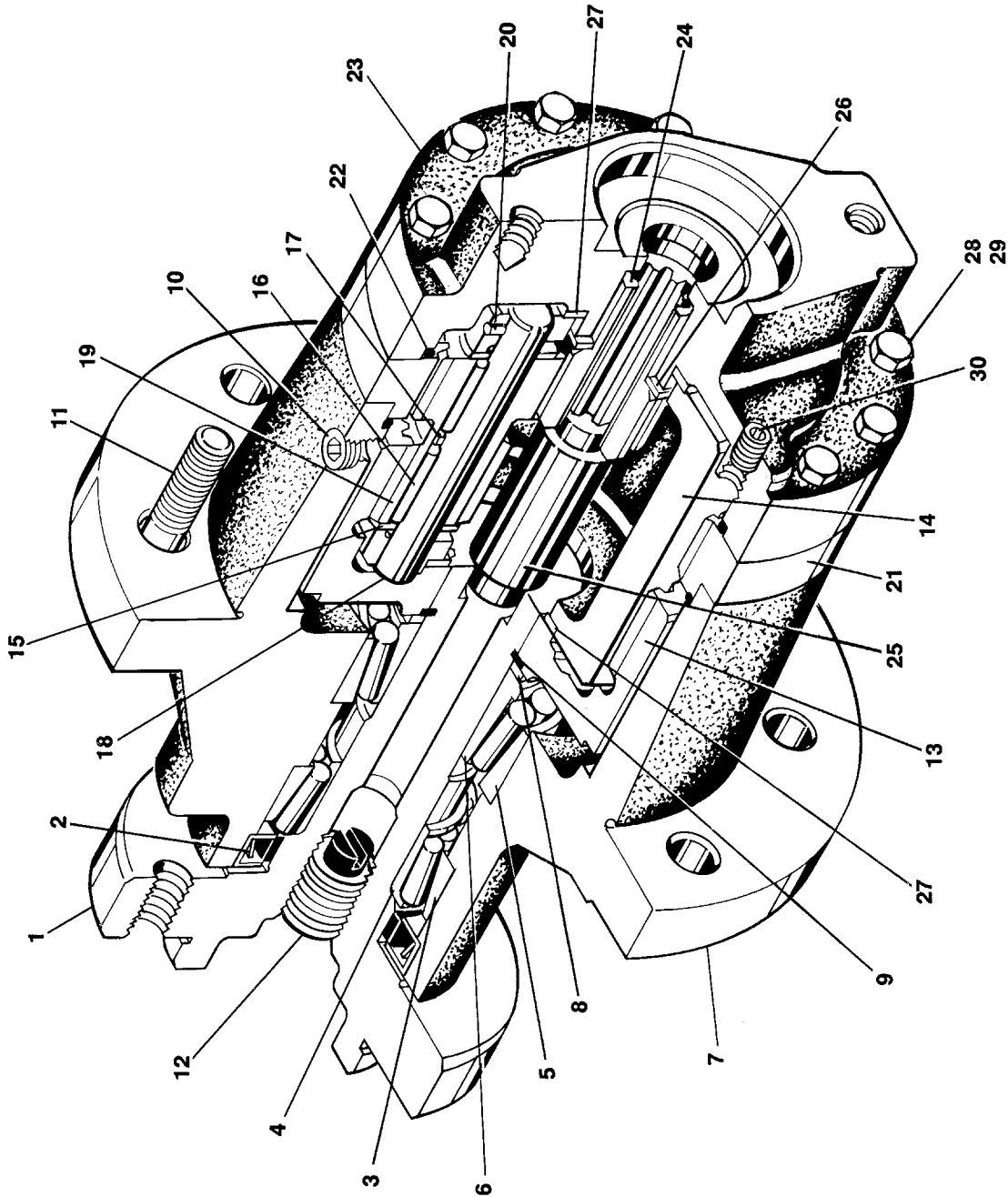
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	2780185	DRIVE HUB ASSEMBLY - MODEL 30ELECTRIC	Ref.	B
		Hub-Shaft Assembly	1	
1	7010463	Spindle	1	
2	7000228	Seal, Lip (Part of Seal Kit p/n 2900034)	1	
3	7000255	Cup, Bearing (Outer)	1	
4	7000256	Cone, Bearing (Outer)	1	
5	7000257	Cup, Bearing (Inner)	1	
6	7000258	Cone, Bearing (Inner)	1	
7	7000259	Housing	1	
8	7000232	Thrustwasher (Part of Seal Kit p/n 2900034)	1	
9	7000229	Ring, Retaining (Part of Seal Kit p/n 2900034)	1	
10	7000242	Plug, Pipe - 1/4" NPTF	2	
11	7000241	Stud, Wheel 1/2"-20NF	9	
12	7001952	Plug, Pipe 3/4" NPTF	1	
13	7000246	Gear, Internal	1	

		Carrier Assembly	1	
14	7001931	Carrier	1	
15	7001985	Thrustwasher, Tanged	6	
16	7001909	Bearing, Needle	96	
17	7000263	Spacer, Thrust	3	
18	7001911	Shaft, Planet	3	
19	7001912	Gear, Cluster	3	
20	7001913	Rollpin	3	
21	7000248	Gear, Ring	1	
22	7000230	O-Ring (Part of Seal Kit p/n 2900034)	2	
23	7000209	Cover, Input	1	
24	7010461	Gear, Sun	1	
25	7000269	Spacer, Input	1	
26	7000270	Thrustwasher	1	
27	7000253	Thrustwasher	2	
28	7000217	Bolt, Hex	8	
29	7000214	Bolt, Shoulder	4	
30	7000242	Plug, Pipe 1/4" NPTF	1	

	2900034	Seal Kit (Includes Items 2,8,9 and 22)	1	

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FIGURE 1-6. DRIVE HUB ASSEMBLY - MODELS 35electric, 40electric, 45electric



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FIGURE 1-6. DRIVE HUB ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC, 45ELECTRIC

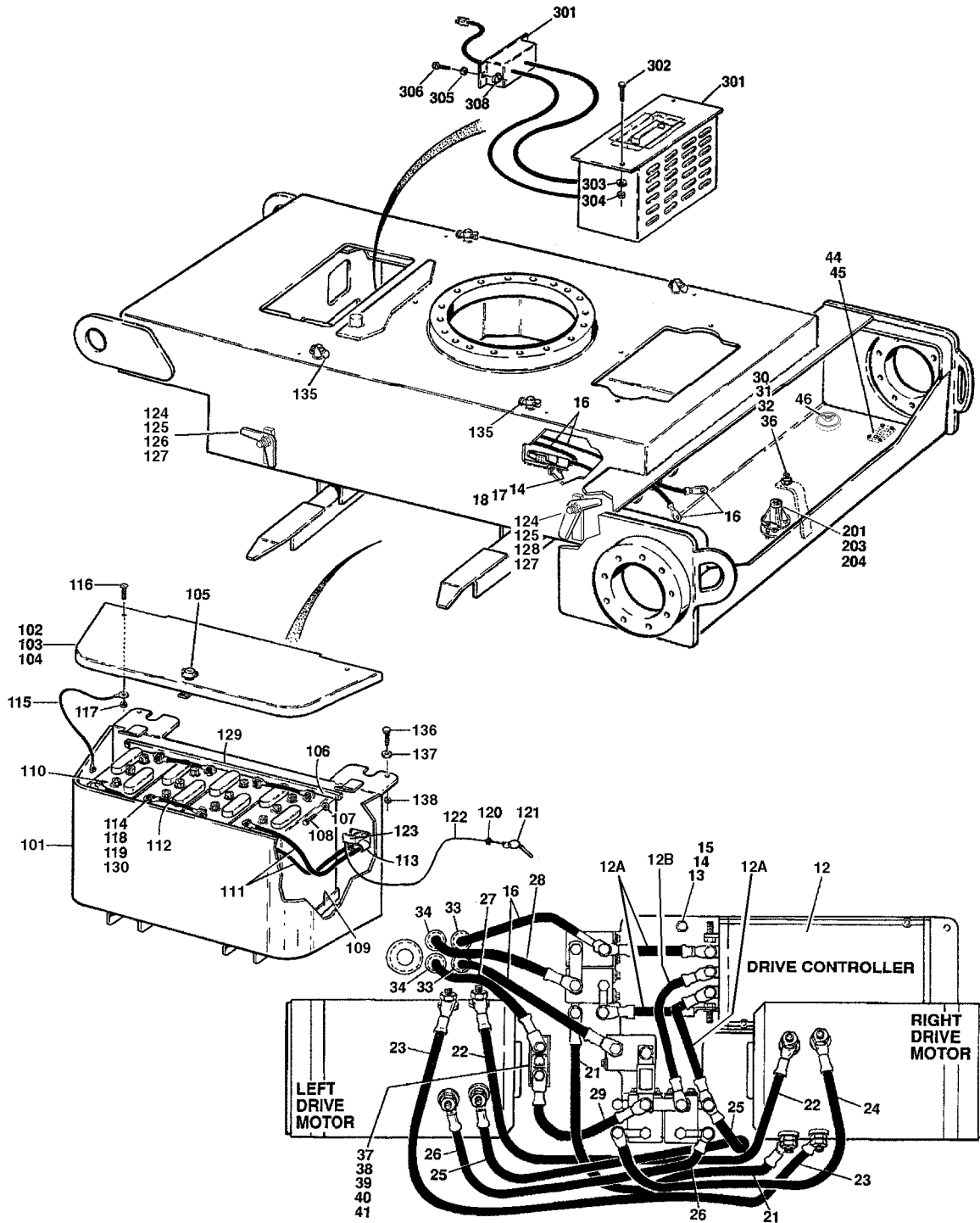
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	2780198	DRIVE HUB ASSEMBLY - MODEL 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC	Ref.	B
	2780198	DRIVE HUB ASSEMBLY - MODEL N35ELECTRIC AND N40 ELECTRIC BUILT PRIOR TO OCTOBER 1994	Ref.	B
	2780206	DRIVE HUB ASSEMBLY - MODEL N35ELECTRIC AND N40ELECTRIC BUILT OCTOBER 1994 TO PRESENT	Ref.	—
		Hub-Shaft Assembly	1	
1	7010486	Spindle	1	
2	7000228	Seal, Lip (Part of Seal Kit)	1	
3	7000255	Cup, Bearing (Outer)	1	
4	7000256	Cone, Bearing (Outer)	1	
5	7000257	Cup, Bearing (Inner)	1	
6	7000258	Cone, Bearing (Inner)	1	
7	7000259	Housing	1	
8	7000232	Thrustwasher (Part of Seal Kit)	1	
9	7000229	Ring, Retaining (Part of Seal Kit)	1	
10	7000242	Plug, Pipe - 1/4" NPTF	2	
11	7000241	Stud, Wheel 1/2"-20NF	9	
12	7001952	Plug, Pipe 3/4" NPTF	1	
13	7000246	Gear, Internal (2780198)	1	
	7010491	Gear, Internal (2780206)	1	

		Carrier Assembly	1	
14	7010481	Carrier (2780198)	1	
	7010489	Carrier (2780206)	1	
15	7001985	Washer, Tanged Thrust	6	
16	7001909	Bearing, Needle	96	
17	7000263	Spacer, Thrust	3	
18	7010483	Shaft, Planet	3	
19	7010484	Gear, Cluster (2780198)	3	
	7010490	Gear, Cluster (2780206)	3	
20	7010474	Rollpin	3	
21	7000248	Gear, Ring	1	
22	7000230	O-Ring (Part of Seal Kit)	2	
23	7000209	Cover, Input	1	
24	7010482	Gear, Sun	1	
25	7010485	Spacer, Input	1	
26	7007642	Thrustwasher	1	
27	7000253	Thrustwasher (Part of Seal Kit)	2	
28	7001923	Bolt, Hex (2780198)	8	
	7000217	Bolt, Hex (2780206)	8	
29	7000214	Bolt, Shoulder	4	
30	7000242	Plug, Pipe 1/4" NPTF	1	

	2900034	Seal Kit (Includes Items 2,8,9 and 22)	1	
	2900661	Seal Kit (Includes Items 2,9 22 and 27)	1	

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FIGURE 1-7. ELECTRICAL COMPONENTS INSTALLATION (FRAME MOUNTED)



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FIGURE 1-7. ELECTRICAL COMPONENTS INSTALLATION (FRAME MOUNTED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		DRIVE CONTACTOR INSTALLATIONS		
	0254710	30electric U/L	Ref.	8
	0257551	30electric Non-U/L	Ref.	1
	0254485	35/40electric U/L	Ref.	8
	0257549	35/40electric Non-U/L	Ref.	1
	0254485	n35/n40electric U/L Prior to October 1994	Ref.	8
	0255111	n35/n40electric U/L Oct 1994 to Present	Ref.	3
	0257548	n35/n40electric Non-U/L	Ref.	1
	0254599	45electric U/L	Ref.	7
	0257550	45electric Non-U/L	Ref.	1
1 to 11	Not Used			
12		Contactor Plate Assembly Options (See Section 7 for Breakdown of Additional Components)	1	
	0254549	30e/35e/n35e/40e/n40e		
	0254597	45e		
12A	70003552	Cable, Electrical (8.5in/21.5cm)	3	
12B	70003553	Cable, Electrical (10in/25.4cm)	1	
13	0641408	Bolt 1/4"-20NC x 1"	3	
14	4711400	Flatwasher 1/4"	7	
15	4761400	Lockwasher 1/4"	3	
16	1060404	Cable Assembly	1	
17	0641416	Bolt 1/4"-20NC x 2"	4	
18	3311405	Locknut 1/4"-20NC	4	
19 to 20	Not Used			
21	1060464	Cable - 37"/94cm Length	1	
22	1060465	Cable - 42"/106.7cm Length	1	
23	1060466	Cable - 44"/111.8cm Length	1	
24	1060467	Cable - 27"/68.6cm Length	1	
25	1060468	Cable - 33"/83.8cm Length	1	
26	1060469	Cable - 29"/73.7cm Length	1	
27	1060535	Cable - 36"/91.4cm Length	1	
28	1060435	Cable - 48"/122cm Length	1	
29	1060534	Cable - 12"/30.5cm Length	1	
30	0641508	Bolt 5/16"-18NC x 1"	1	
31	3311505	Locknut 5/16"-18NC	1	
32	4751500	Flatwasher 5/16"	2	
33	2540020	Grommet	2	
34	2540019	Grommet	2	
35	0840027	Cover, Battery Terminal (Not Shown - Located on Motor)	2	
36	4240084	Strap, Static	1	
37	2400045	Fuse	1	
38	2400044	Fuseholder	1	
39	0741008	Screw #10-24NC x 1"	2	
40	4751000	Flatwasher #10	2	
41	3311005	Locknut #10-24NC	2	
42	Not Used			
43	2540023	Grommet (30electric Non U/L Machines Only)	1	
44	3538157	Plate, Drain	2	

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FIGURE 1-7. ELECTRICAL COMPONENTS INSTALLATION (FRAME MOUNTED) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
45	0791004	Screw, Lock #110-24NC x 1/2"	8	
46	1670835	Cover, Drain (U/L Machines)	4	
BATTERY BOX INSTALLATIONS				
NOTE: SEE SECTION 10 FOR GEL-CELL BATTERIES				
	0254499	30electric U/L with Wet Batteries	Ref.	7
	0257556	30electric Non U/L with Wet Batteries	Ref.	2
	0256123	30electric U/L with Dry Batteries	Ref.	—
	0254483	35electric U/L Prior to S/N 0300024526 with Wet Batteries	Ref.	6
	0256121	35electric U/L S/N 0300024526 to Present with Wet Batteries	Ref.	9
	0257557	35electric Non U/L with Wet Batteries	Ref.	3
	0256125	35electric U/L Prior to S/N 0300024526 with Dry Batteries	Ref.	2
	0254483	n35electric U/L Prior to S/N 0300023550 with Wet Batteries	Ref.	6
	0256121	n35electric U/L S/N 0300023550 to Present with Wet Batteries	Ref.	9
	0257557	n35electric Non U/L with Wet Batteries	Ref.	2
	0256125	n35electric U/L with Dry Batteries	Ref.	2
	0254276	40electric U/L Prior to S/N 0300024233 with Wet Batteries	Ref.	H
	0256530	40electric U/L S/N 0300024233 to Present with Wet Batteries	Ref.	6
	0257558	40electric Non U/L with Wet Batteries	Ref.	2
	0256124	40electric U/L with Dry Batteries (Prior to S/N 0300050377)	Ref.	A
	0270258	40electric U/L with Dry Batteries (S/N 0300050377 to Present)	Ref.	1
	0254276	n40electric U/L Prior to S/N 0300025492 with Wet Batteries	Ref.	H
	0257558	n40electric Non U/L with Wet Batteries	Ref.	1
	0256530	n40electric U/L S/N 0300025492 to Present with Wet Batteries	Ref.	6
	0256124	n40electric U/L with Dry Batteries (Prior to S/N 0300050377)	Ref.	2
	0270258	n40electric U/L with Dry Batteries (S/N 0300050377 to Present)	Ref.	1
	0254276	45electric U/L Prior to S/N 0300024324 with Wet Batteries	Ref.	H
	0256530	45electric U/L S/N 0300024324 to Present with Wet Batteries	Ref.	6
	0257558	45electric Non U/L with Wet Batteries	Ref.	1
	0256124	45electric U/L with Dry Batteries (Prior to S/N 0300050377)	Ref.	A
	0270258	45electric U/L with Dry Batteries (S/N 0300050377 to Present)	Ref.	1
101		Battery Box Weldment Options:	1	
	4844689	30electric		
	4844632	35electric Prior to S/N 0300024526		

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FIGURE 1-7. ELECTRICAL COMPONENTS INSTALLATION (FRAME MOUNTED) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
101 (cont'd)	4845262	35electric S/N 030000300024526 to Present		
	4844632	n35electric Prior to S/N 030000300023550		
	4845262	n35electric S/N 0300023550 to Present		
	4844424	40electric Prior to S/N 0300024233		
	4845343	40electric S/N 0300024233 to Present		
	4844424	n40electric Prior to S/N 0300025492		
	4845343	n40electric S/N 0300025492 to Present		
	4844424	45electric Prior to S/N 0300024324		
	4845343	45electric S/N 0300024324 to Present		
102	1670696	Cover, Battery Box	2	
103	2820063	Insulator, Cover (U/L Machines Only)	2	
104	0100065	Adhesive (U/L Machines Only)	A/R	
105	2940073	Latch	2	
106	4565640	Tube	2	
107		Hardware Options:	A/R	
	3300029	Wingnut 3/8"-16NC (Not Shown) (30electric)	4	
	4711500	Flatwasher 5/16" Thin (35electric/40electric/ 45electric)	8	
108		Hardware Options:	A/R	
	0630453	Bolt (30electric)	4	
	0641512	Bolt (35electric/40electric/45electric)	4	
109		Liner, Box Options:	2	
	3000003	30electric/40electric/45electric		
	3000004	35electric (Prior to S/N 0300044788)		
	3000003	35electric (S/N 0300044788 to Present)		
110		Battery Options:	8	
	0400069	Wet (30electric)		
	0400112	Dry (30electric)		
	0400121	Wet (35electric)		
	0400136	Dry (35electric)		
	0400055	Wet (40electric/45electric)		
	0400107	Dry (40electric/45electric)		
111	1060405	Cable, Battery	2	
112	1060092	Cable, Battery	6	
113	0100048	Silicon Compound	A/R	
114	0100051	Grease, Terminal	A/R	
115	1060492	Lanyard	4	
116	0630407	Screw, Button Head 1/4" x 5/8"	8	
117	3311405	Locknut 1/4"-20NC	8	
118	0840031	Boot, Terminal - "d" shape	12	
119	0840032	Boot, Terminal - "b" shape	4	
120		Hardware Options:Grommet	2	
	2540016	Grommet (U/L Machines)		
	3520054	Plug (Non U/L Machines)		
121	3760170	Ring	2	
122	1060491	Cable, Lanyard	2	
123	1320172	Handle, Pull	2	
124	4300107	Stud 1/2"-16NC x 2"	4	
125	4751800	Flatwasher 1/2"	8	

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FIGURE 1-7. ELECTRICAL COMPONENTS INSTALLATION (FRAME MOUNTED) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
126	2940093	Latch (Left Hand) (35electric S/N 0300024526 to Present/n35electric S/N 0300023550 to Present/40electric S/N 0300024233 to Present/n40electric S/N 0300025492 to Present/45electric S/N 0300024324 to Present)	2	
127	3311805	Locknut 1/2"-13NC	4	
128	2940094	Latch (Right Hand) (35electric S/N 0300024526 to Present/n35electric S/N 0300023550 to Present/40electric S/N 0300024233 to Present/n40electric S/N 0300025492 to Present/45electric S/N 0300024324 to Present)	2	
129	Not Required	Insulator Options:	A/R	
	2820065	Non U/L Machines	0	
	2820066	30electric U/L	4	
	2820067	35electric U/L	4	
	2820067	40electric/45electric U/L	4	
130	4761500	Lockwasher 5/16"	16	
131 to 134	Not Used			
135	3421799	Pin, Quick Release (30electric/35electric Prior to S/N 0300024526/n35electric Prior to S/N 0300023550/40electric Prior to S/N 0300024233/n40electric Prior to S/N 0300025492/45electric Prior to S/N 0300024324)	4	
136	0641612	Bolt 3/8"-16NC x 1 1/2"	4	
137	4751600	Flatwasher 3/8"	8	
138	3311605	Locknut 3/8"-16NC	4	
	0254603	TILT INDICATOR INSTALLATION	Ref.	—
201	4360371	Sensor, Level	1	
	7012608	Fuse 1.5 Amp (Black Version)	1	
	Not Required	Fuse (Blue and Orange Version)	0	
202	Not Used			
203	0641406	Bolt 1/4"-20NC x 3/4"	2	
204	3311405	Locknut 1/4"-20NC	2	
		BATTERY CHARGER INSTALLATIONS		
		Note: See Section 10 for Gel-Cell Battery Chargers and Connections		
	0254801	110V/60Hz UL USA/CSA/Latin America Specs	Ref.	A
	0257564	110V/60Hz Non-UL USA/CSA/Latin America Spec	Ref.	2
	0257479	220V/60Hz UL USA/CSA/Latin America/Brazil Specs	Ref.	2
	0255743	220V/50Hz UL Latin America Spec	Ref.	2
	0253241	100V/50-60Hz Non-UL Japanese Spec	Ref.	5
301		Battery Charger Assembly Options (See Figure 1-8 for Breakdown)		
	0400124	110V/60Hz U/L USA/CSA/Latin America Specs		
	0400162	110V/60Hz Non-U/L USA/CSA/Latin America Specs		

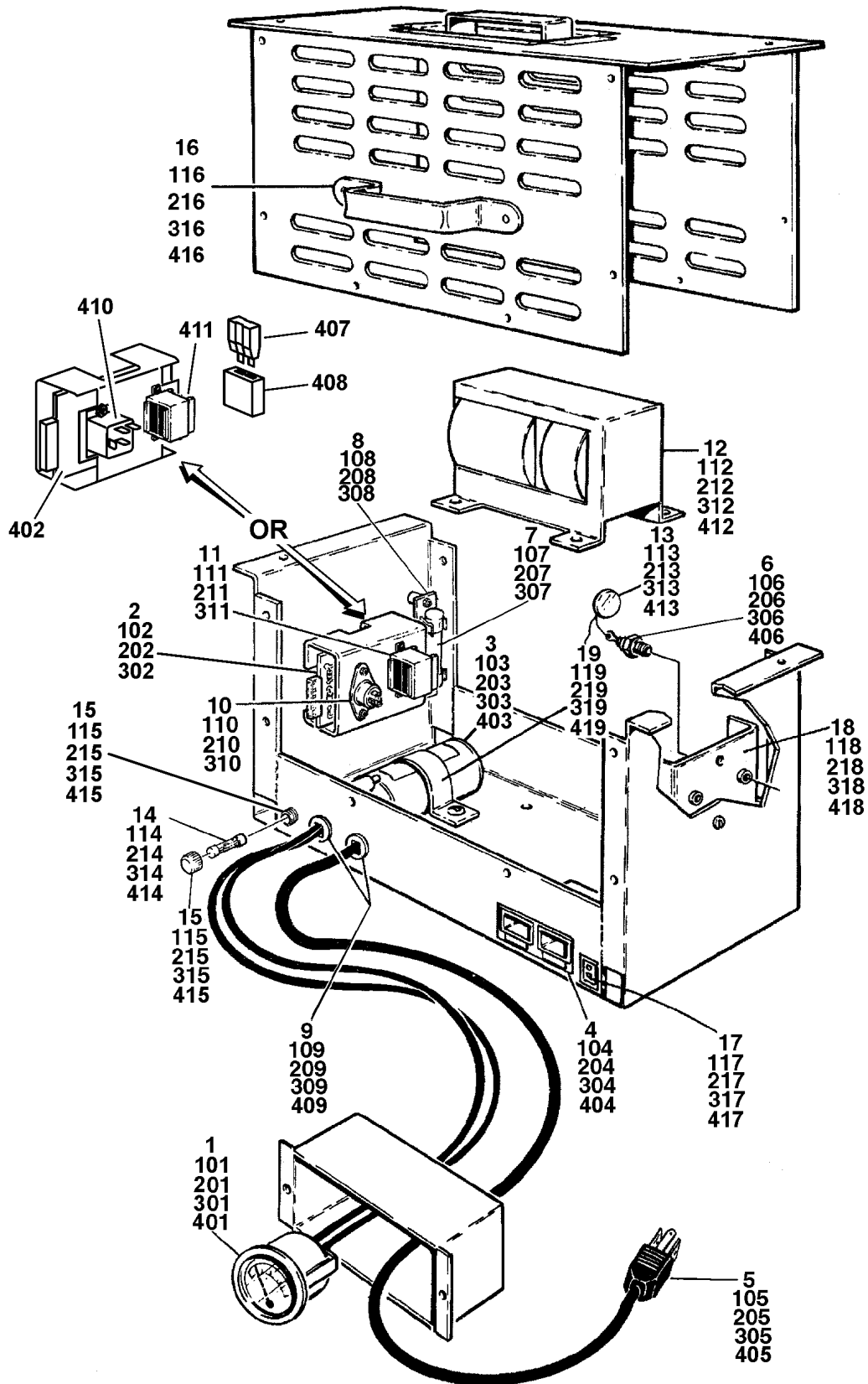
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FIGURE 1-7. ELECTRICAL COMPONENTS INSTALLATION (FRAME MOUNTED) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
301 cont'd	0400158	220V/60Hz U/L USA/CSA/Latin America Specs		
	0400137	220V/50Hz U/L USA/CSA/Latin America Specs		
	0400135	100V/60Hz Non-U/L Japanese Spec		
302	0641408	Bolt 1/4"-20NC x 1"	2	
303	4711400	Flatwasher 1/4" Narrow	2	
304	3311405	Locknut 1/4"-20NC	2	
305	4761400	Lockwasher 1/4"	2	
306	0641408	Bolt 1/4"-20NC x 1"	2	
307		Instructions Decal Options (Not Shown):	1	
	1701695	110V English Language		
	1702352	220V English Language		
	1702950	110V Spanish Language		
	1702949	220V Spanish Language		
308	3300181	Nut, Retainer 1/4"-20NC	2	

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FIGURE 1-8. BATTERY CHARGER ASSEMBLY



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FIGURE 1-8. BATTERY CHARGER ASSEMBLY

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		<p>Note: Battery charger serial number nameplate located on right side of charger. First line is the charger spec and date code. Prior to mid-February 1996 Example: BA515 (Spec) AP (Date Code). First letter in the date code indicates month (A - January/ B - February/C- March/etc. With exception of letter "I" which is not used). Second letter indicates year (N-1992/O-1993/P-1994/S-1995/T-1996 etc.). After mid-February 1996 Example: BA515 (Spec) 9631 (Date Code). First and second digits in the date code indicate year. Third and fourth digits indicate the week of manufacture.</p>		
	0400124	<p>BATTERY CHARGER ASSEMBLY (PRODUCTION) - 110V/60HZ U/L USA/CSA/LATIN AMERICA SPECS</p> <p>Note: This Charger Was Used During Production And Uses A Triac. Service Replacement Chargers Use A Relay. See Items 401-420 For Chargers Containing A Relay.</p>	Ref.	—
1	7011573	Ammeter	1	
2		Circuit Board Options:	1	
	Use 7011662	Prior to January 1995 (Was p/n 7011629)		
	7011662	January 1995 to Present		
3	7018500	Condenser (Was p/n 7011574)	1	
4	7011590	Connector, DC	1	
5	7011643	Cord, AC	1	
6	7011576	Diode	2	
7	7011593	Fuse, DC - 45 Amp	1	
8	7011594	Holder, Fuse - DC	1	
9	7011646	Relief, Strain (AC Cord)	2	
	7011528	Relief, Strain (DC Cord)	1	
10	7011517	Triac	1	
11	7011518	Transformer, Control	1	
12	7011595	Transformer, Main	1	
13	7011584	Varistor	1	
14	7011645	Fuse, AC - 25 Amp	1	
15	7011507	Holder, Fuse - AC	1	
16	Not Available	Handle	2	
17	7011621	Connector, Enable Switch	1	
18	7011610	Heatsink	1	
19	7011511	Strap, Condenser	1	
	0400162	<p>BATTERY CHARGER ASSEMBLY-110V/60HZ NON-UL USA/CSA/LATIN AMERICA SPECS</p>	Ref.	A
101	7011573	Ammeter	1	
102	7011662	Board, Circuit	1	
103	7020624	Condenser (Was p/n 7011574)	1	
104	7011590	Connector, DC	1	
105	7011591	Cord, AC	1	

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FIGURE 1-8. BATTERY CHARGER ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
106	7011668	Diode	2	
107	7011593	Fuse, DC - 45 Amp	1	
108	7011594	Holder, Fuse - DC	1	
109	7011646	Relief, Strain (AC Cord)	2	
	7011528	Relief, Strain (DC Cord)	1	
110	7018572	Triac	1	
111	7011518	Transformer, Control	1	
112	7018574	Transformer, Main	1	
113	7011584	Varistor	1	
114	7011645	Fuse, AC - 25 Amp	1	
115	7011507	Holder, Fuse - AC	1	
116	Not Available	Handle	2	
117	7011621	Connector, Enable Switch	1	
118	7018539	Heatsink	1	
119	7011511	Strap, Condenser	1	
	0400158	BATTERY CHARGER ASSEMBLY 220V/60HZ ULUSA/ CSA/LATIN AMERICA/BRAZIL SPECS	Ref.	B
201	7011573	Ammeter	1	
202	7018538	Board, Circuit	1	
203	7020624	Condenser (Was p/n 7011574)	1	
204	7011590	Connector, DC	1	
205	7011677	Cord, AC	1	
206	7011668	Diode	2	
207	7018570	Fuse, DC - 80 Amp	1	
208	7018571	Holder, Fuse - DC	1	
209	7011646	Relief, Strain (AC Cord)	2	
	7011528	Relief, Strain (DC Cord)	1	
210	7018572	Triac	1	
211	7011551	Transformer, Control	1	
212	7018573	Transformer, Main	1	
213	7011584	Varistor	1	
214	7018569	Fuse, AC - 15 Amp	1	
215	7011507	Holder, Fuse - AC	1	
216	Not Available	Handle	2	
217	7011621	Connector, Enable Switch	1	
218	7018539	Heatsink	1	
219	7011511	Strap, Condenser	1	
	0400137	BATTERY CHARGER ASSEMBLY 220V/50HZ UL LATIN AMERICA/BRAZIL SPEC Note: Complete Charger No Longer Available For Replacement Use Charger p/n 0400198. See Figure 1-9 for Service Parts Breakdown of Charger p/n 0400198.	Ref.	B
301	7011573	Ammeter	1	
302	7018538	Board, Circuit	1	
303	7011574	Condenser	1	

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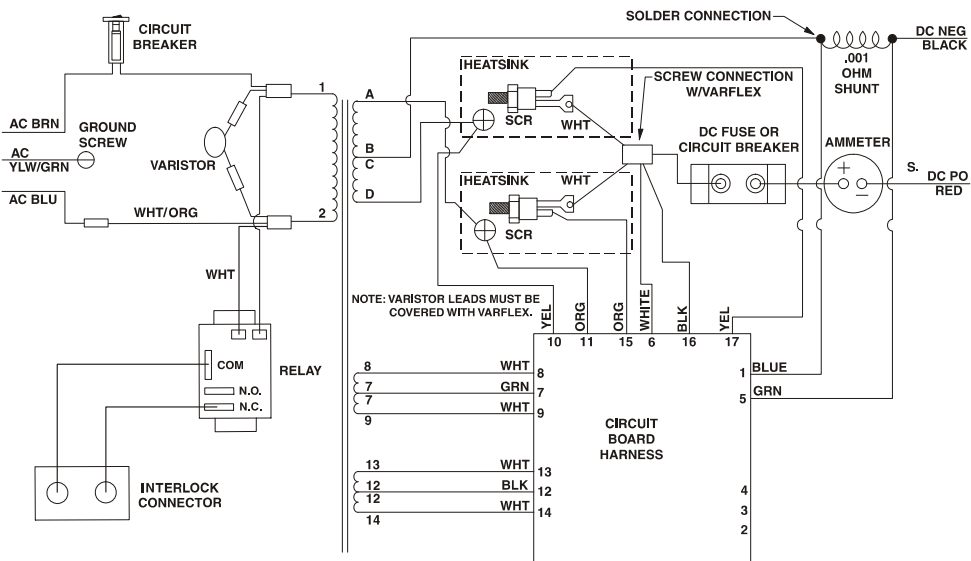
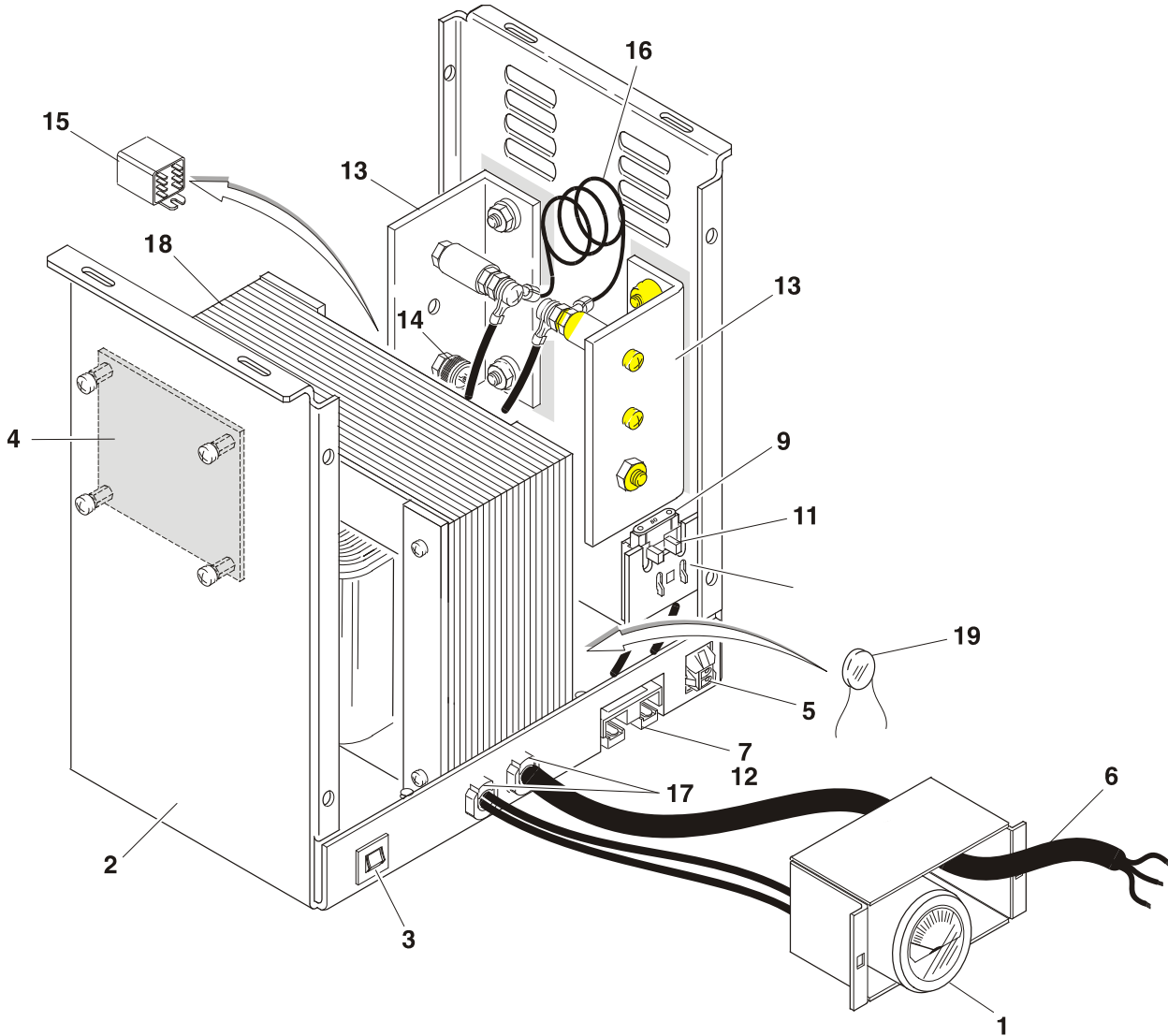
FIGURE 1-8. BATTERY CHARGER ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
304	7011590	Connector, DC	1	
305		Cord, AC Options:	1	
	7011572	Prior to Date Code 9906		
	7011674	Date Code 9907 to Present		
306	7011576	Diode	2	
307	7011593	Fuse, DC - 80 Amp	1	
308	7011594	Holder, Fuse - DC	1	
309	7011646	Relief, Strain (AC Cord)	2	
	7011528	Relief, Strain (DC Cord)	1	
310	7011517	Triac	1	
311	7011551	Transformer, Control	1	
312	7011598	Transformer, Main	1	
313	7011584	Varistor	1	
314	7011508	Fuse, AC - 15 Amp	1	
315	7011507	Holder, Fuse - AC	1	
316	Not Available	Handle	2	
317	7011621	Connector, Enable Switch	1	
318	7018539	Heatsink	1	
319	7011511	Strap, Condenser	1	
	0400124	BATTERY CHARGER ASSEMBLY (SERVICE REPLACEMENT) -110V/60HZ U/L USA/CSA/LATIN AMERICA SPECS Note: This Charger Is Used For Service Replacement And Uses A Relay. Production Chargers Used A Triac. See Items 1-19 For Chargers Containing A Triac.	Ref.	—
401	7011573	Ammeter	1	
402	7022961	Board, Circuit	1	
403	7020624	Condenser	1	
404	7011590	Connector, DC	1	
405	7022962	Cord, AC	1	
406	7011668	Diode	1	
407	7020691	Fuse, DC	1	
408	7018571	Holder, Fuse - DC	1	
409	7011646	Relief, Strain (AC Cord)	2	
	7020659	Relief, Strain (DC Cord)	1	
410	7018506	Relay	1	
411	7011518	Transformer, Control	1	
412	7022963	Transformer, Main	1	
413	7011596	Varistor	1	
414	7011645	Fuse, AC	1	
415	7011507	Holder, Fuse - AC	1	
416	Not Available	Handle	2	
417	7011621	Connector, Enable Switch	1	
418	7018539	Heatsink	1	
419	7011511	Strap, Condenser	1	
420	7020687	Harness, Relay (Not Shown)	1	

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FIGURE 1-9. BATTERY CHARGER ASSEMBLY - 220V/50HZ UL (SERVICE REPLACEMENT - LATIN AMERICA/BRAZIL SPEC)



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FIGURE 1-9. BATTERY CHARGER ASSEMBLY - 220V/50HZ UL (SERVICE REPLACEMENT - LATIN AMERICA/BRAZIL SPEC)

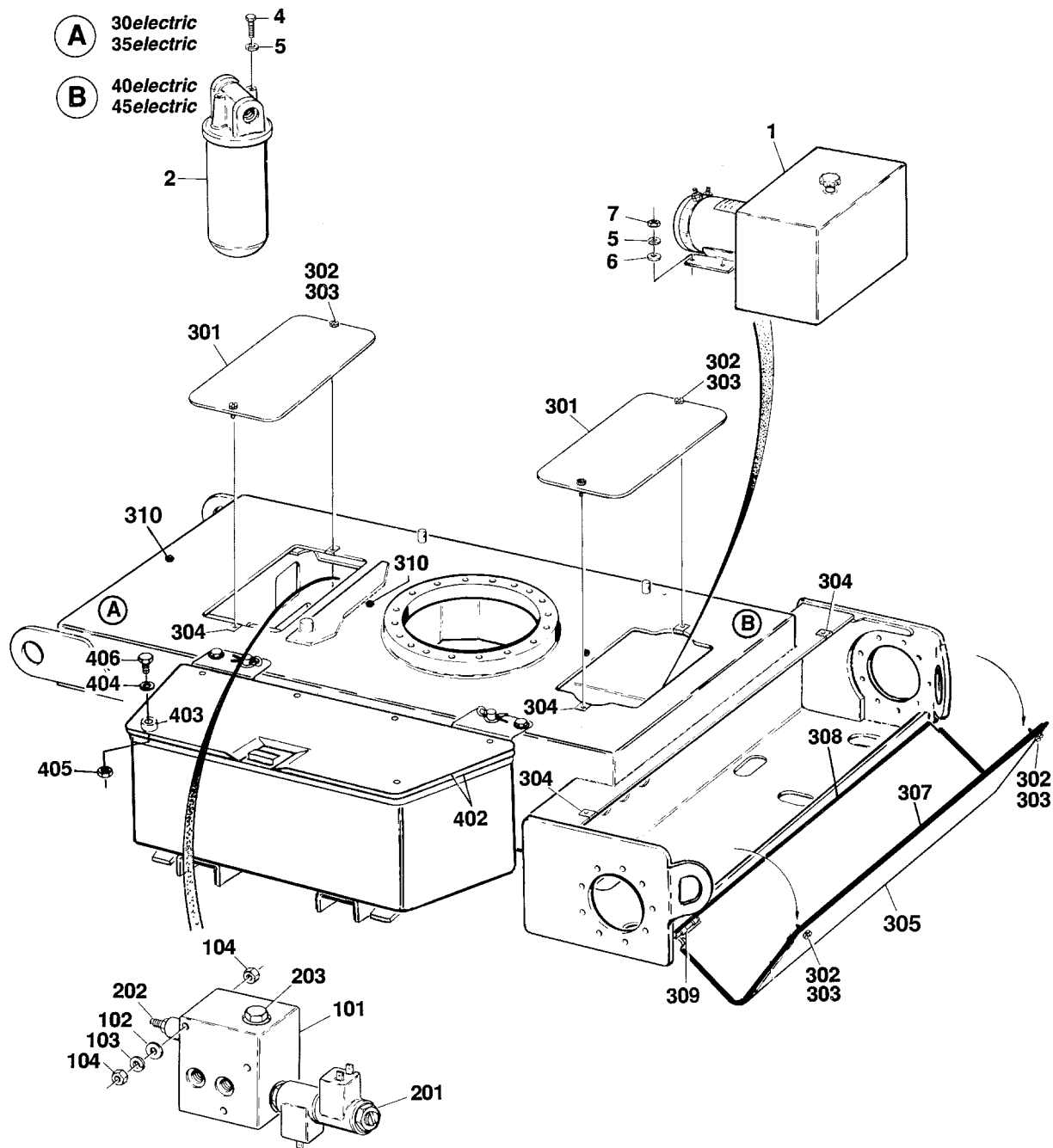
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0400198	BATTERY CHARGER ASSEMBLY - LATIN AMERICA/ BRAZIL SPECS (SERVICE REPLACEMENT FOR 0400137 BATTERY CHARGER)	Ref.	—
1	Use 7011573	Ammeter (was p/n 7022915)	1	
2	7022904	Cover Assembly, Case	1	
3	7018525	Breaker, Circuit	1	
4	7022938	Board, Circuit (was p/n 7022934)	1	
5	7011621	Connector	1	
6	7022914	Cord, AC	1	
7	7022916	Cord, DC	1	
8	7018577	Capacitor Assembly (Not Shown)	2	
9	7011593	Fuse, DC - 45 Amp	1	
10	7020658	Harness (Not Shown)	1	
11	7011594	Holder, Fuse - DC	1	
12	7011590	Connector, DC	1	
13	7020649	Recifier Assembly	2	
14	7020650	Recifier (1 Per Assembly)	1	
15	7018563	Relay	1	
16	7020674	Shunt Assembly	1	
17	7011529	Strain Relief	1	
	7020659	Strain Relief	1	
18	Use 7022939	Transformer (was p/n 7022917)	1	
19	7020633	Varistor Assembly	1	

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FIGURE 1-10. HYDRAULIC COMPONENTS & COVERS INSTALLATION (FRAME MOUNTED)

Locations:

- (A) 30electric
35electric
- (B) 40electric
45electric



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FIGURE 1-10. HYDRAULIC COMPONENTS & COVERS INSTALLATION (FRAME MOUNTED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.	
1	0254708	MOTOR/PUMP/TANK AND FILTER INSTALLATION - MODEL 30ELECTRIC	Ref.	A	
	0252339	MOTOR/PUMP/TANK AND FILTER INSTALLATION - MODEL 35ELECTRIC	Ref.	E	
	0271913	MOTOR/PUMP/TANK AND FILTER INSTALLATION (W/FILTER FOR FIRE RESISTANT HYDRAULIC FLUID) - MODEL 35ELECTRIC	Ref.	1	
	0254299	MODEL/PUMP/TANK AND FILTER INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC	Ref.	A	
			Pump/Motor/Tank Assembly Options: Prior to S/N 27665	1	
		3600192	Pump/Motor/Tank Assembly	1	A
		7013700	Pump Assembly	1	
		2900813	Seal Kit (Includes All O-Rings, Seals & Filters)	1	
		7013702	Filter	1	
		7013703	Electric Motor Assembly	1	
		7022200	Brush Kit (Lessen Motor) (was p/n 7013704)	1	
		7016766	Brush Kit (Ohio Motor)	1	
		7013729	Coupling	1	
		7013706	Reservoir	1	
		7013707	Relief Cartridge Assembly	1	
		7013708	Check Valve Assembly	1	
		7013709	Breather/Dipstick Assembly	1	
			S/N 27665 to Present		
		3600261	Pump/Motor/Tank Assy	1	B
		7016717	Pump Assembly	1	
		7013701	Seal Kit (Includes all O-Rings, Seals & Filters)	1	
		7013723	Filter	1	
		70002418	Fitting, 90° Elbow Suction	1	
		7013716	Seal, Shaft	1	
		7013743	O-Ring	1	
		7013717	Washer	1	
		7013727	Cover, Suction	1	
		7013713	Bolt, Torx (Pump to Motor)	2	
		7013728	Screw M6-10 x 12mm	2	
		3931516	Screw 5/16"-18 x 1"	1	
		7013703	Electric Motor Assembly	1	
		7022200	Brush Kit	1	
		7022202	Armature	1	
		7016740	Endhead	1	
	7013744	Adaptor, Endhead	1		
	7016739	Lockwasher	4		
	7016725	Screw 1/4"-20NC x 3/4"	4		
	7013748	Tag, Caution	1		
	7013729	Coupling	1		
	7013706	Reservoir	1		
	7013750	Relief Cartridge Assy.	1		
	7013715	Ball, Steel	1		

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**FIGURE 1-10. HYDRAULIC COMPONENTS & COVERS INSTALLATION (FRAME MOUNTED)
(CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
1 (cont'd)	7013733	Spring	1	
	7013719	Plug	1	
	7013722	Plug, Magnet	1	
	7013740	Screw 12-24 x .29	4	
	7013770	Screw, Valve Adjustment	1	
2	2120105	Filter, Return	1	
	2120072	Element, Filter	1	
	2120165	Filter, Return (For Fire Resistant Hydraulic Oil)	1	
	2120158	Element, Filter	1	
3	0100009	Silicone	A/R	
4	3911410	Screw, Machine 1/4"-20NC x 5/8"	2	
5	4761400	Lockwasher 1/4"	6	
6	4751400	Flatwasher 1/4"	4	
7	3311401	Nut 1/4"-20NC	4	
	0252290	VALVE INSTALLATION - MODEL 30ELECTRIC	Ref.	B
	0254298	VALVE INSTALLATION - MODEL 35ELECTRIC	Ref.	2
	0253650	VALVE INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC	Ref.	8
101	4640726	Control Valve Assembly (See Items 201-203 for Break-down)	1	
102	4751400	Flatwasher 1/4"	2	
103	4761400	Lockwasher 1/4"	2	
104	3311401	Nut 1/4"-20NC	2	
	4640726	CONTROL VALVE ASSEMBLY - HYDRO-AIR (STEER)	Ref.	G
201	7010537	Cartridge - Complete Solenoid (Steer Directional Controls)	1	
	7010538	Coil	2	
	7010539	Seal Kit	1	
	7012951	Weatherproof Kit	1	
202	7010540	Cartridge - Complete (Steer Pressure Relief) (Prior to S/N 31641)	1	
	7010541	Seal Kit	1	
	7012912	Cartridge - Complete (Steer Pressure Relief) (S/N 31641 to Present)	1	
203	7012998	Seal Kit	1	
	7010542	Cartridge - Complete (Steer Shuttle Valve)	1	
	7010543	Seal Kit	1	

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**FIGURE 1-10. HYDRAULIC COMPONENTS & COVERS INSTALLATION (FRAME MOUNTED)
(CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		FRAME COVERS INSTALLATIONS	Ref.	
	0254605	30electric	Ref.	B/2
	0254291	35/40/45electric	Ref.	A
	0254292	35/40/45electric	Ref.	A
301	3535959	Plate, Cover	2	
302	3900174	Screw, Special	6	
303	3760308	Retainer	6	
304	1380138	Clip, Receptacle	6	
305		Cover, Rear Axle Options:	1	
	4844778	30electric		
	4844602	35/40/45electric		
	4844603	n35/n40electric		
306	0940036	Bumper, Rubber	2	
307	3960447	Seal, Self-Grip	8 Ft./2.5m	
308	3960433	Seal	4 Ft./1.3m	
309	3300371	Wingnut	4	
310	3520026	Plug, Hole	3	
	0252986	OPTIONAL BATTERY BOX COVERS INSTALLATION - MODEL 30ELECTRIC ONLY	Ref.	—
401	Not Used			
402	1670650	Cover, Battery Box	2	
403	4565755	Tube	12	
404	4711400	Flatwasher 1/4"	12	
405	3311405	Locknut 1/4"-20NC	12	
406	0641412	Bolt 1/4"-20NC x 1 1/2"	12	

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**FIGURE 1-10. HYDRAULIC COMPONENTS & COVERS INSTALLATION (FRAME MOUNTED)
(CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

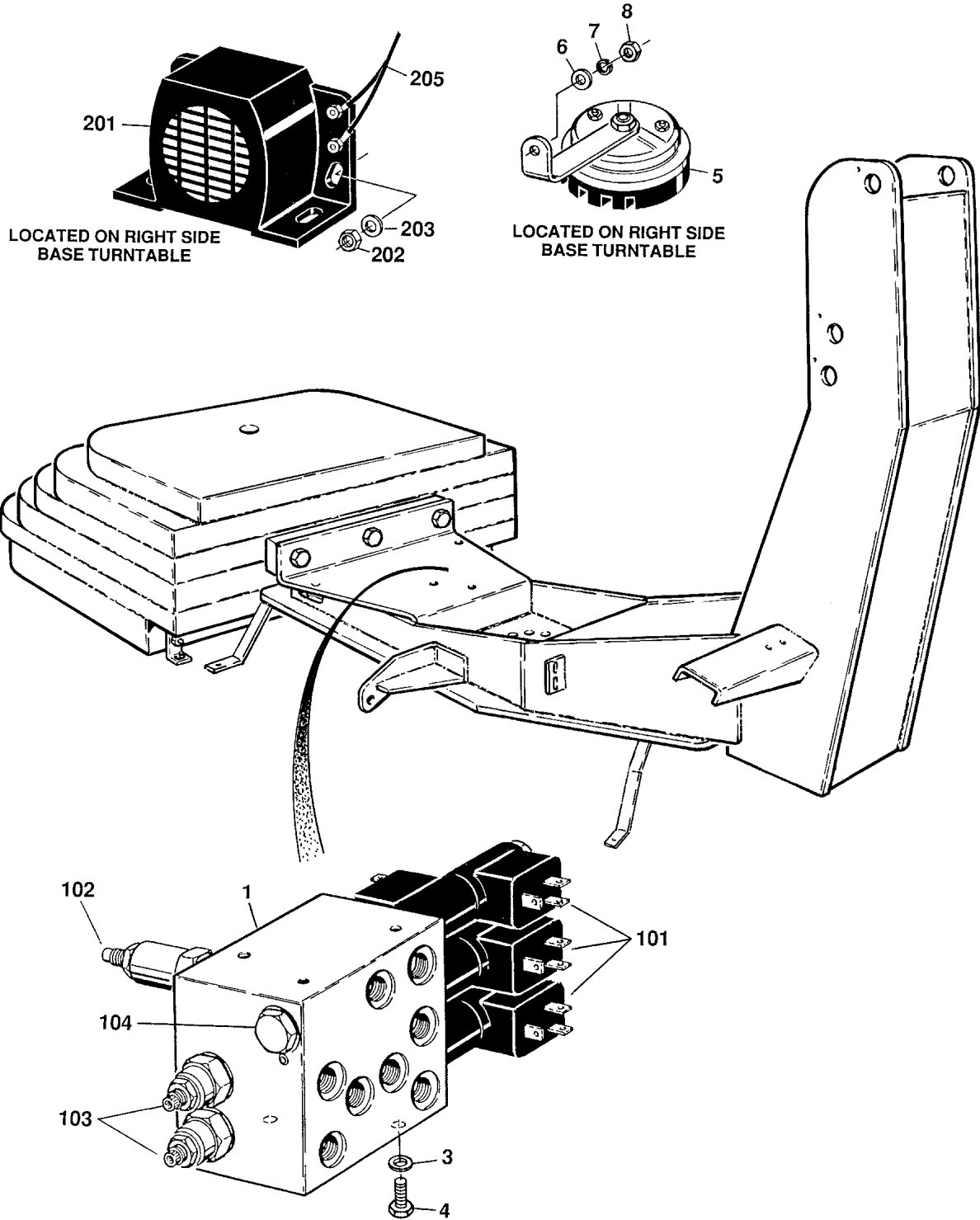
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FIGURE 2-1. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 30electric.

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FIGURE 2-1. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 30ELECTRIC.

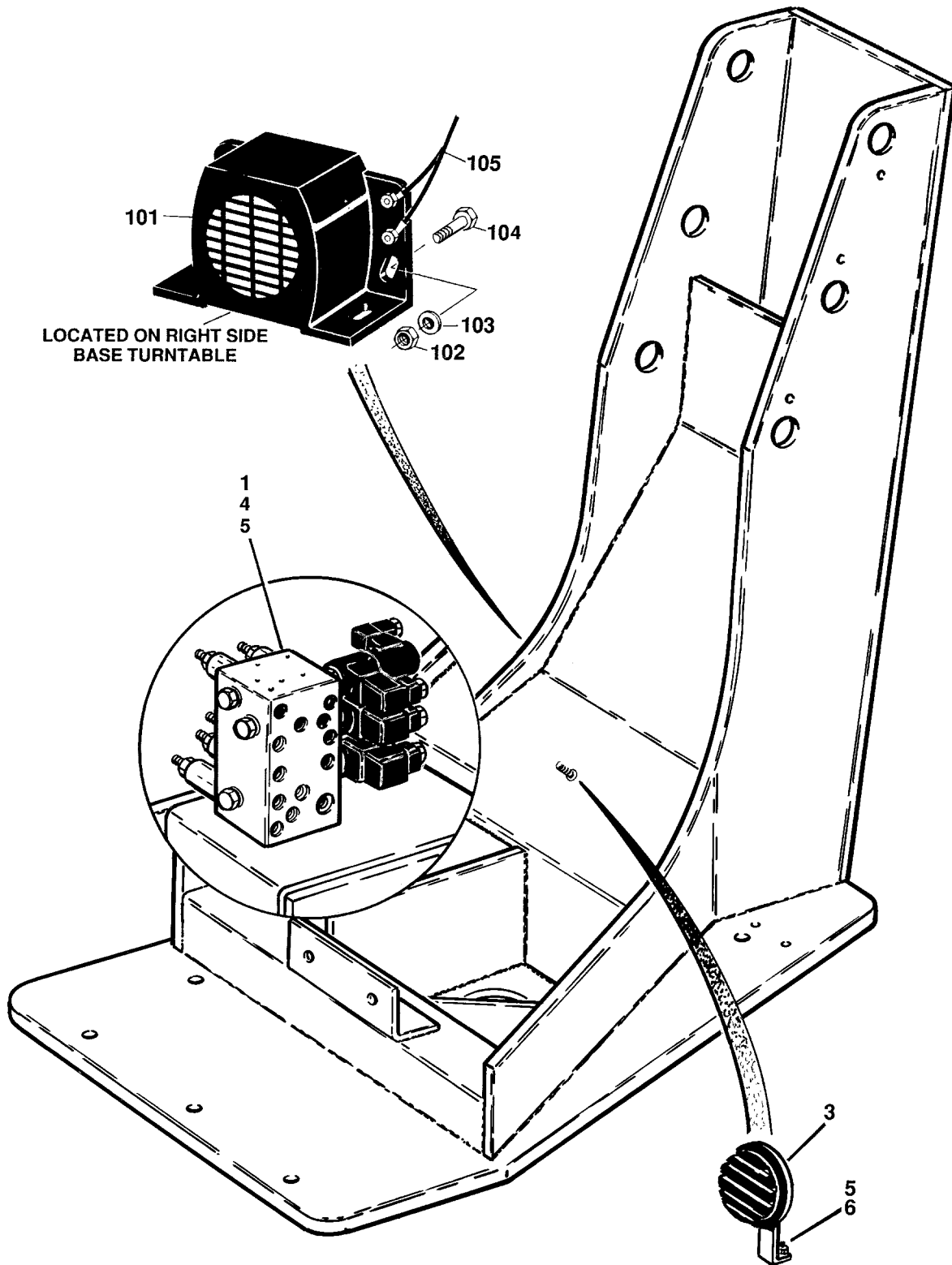
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0252290	VALVE AND HORN INSTALLATION	Ref.	B
1	4640725	Control Valve Assembly - Hydro-Air (Swing and Lift) (Includes Items 101-104)	1	
2	Not Used			
3	4761500	Lockwasher 5/16"	2	
4	0641508	Bolt 5/16"-18NC x 1"	2	
5	0140028	Horn	1	
6	4751400	Flatwasher 1/4"	1	
7	4761400	Lockwasher 1/4"	1	
8	3311401	Nut 1/4"-20NC	1	
	4640725	CONTROL VALVE ASSEMBLY - HYDRO-AIR (SWING AND LIFT)	Ref.	A
101	7010546	Cartridge - Complete (Direction Control - Swing, Main/ Main/Upper Lift Up/Down and Tower/Lower Lift Up/ Down)	3	
	7010538	Coil (2 Per Cartridge)	6	
	7010539	Seal Kit	3	
102	7010540	Cartridge - Complete (Swing Crossover/Pressure Relief/ Relief/Lift Down Relief)	3	
	7010541	Seal Kit	3	
103	7010544	Cartridge - Complete (Lift Down Speed/Flow Control)	2	
	7010545	Seal Kit	2	
104	7010542	Cartridge - Complete (Swing Shuttle Valve)	1	
	7010543	Seal Kit	1	
		MOTION ALARM KITS (OPTIONAL)		
	2901212	Prior to S/N36544 without Numbered Colored Wire	Ref.	—
	2901560	S/N36544 to Present with Numbered Colored Wire	Ref.	1
201	0140031	Alarm, Motion (Remove ground strap before installa- tion)	1	
202	3311405	Locknut 1/4"-20NC	2	
203	4711400	Flatwasher 1/4"	4	
204	Not Used			
205		Harness Options:	1	
	4921425	Prior to S/N36544 without Numbered Colored Wire		
	4922076	S/N36544 to Present with Numbered Colored Wire		

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FIGURE 2-2. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 35electric.

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FIGURE 2-2. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 35ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0254298	VALVES AND HORN INSTALLATION	Ref.	2
1		Control Valve Assembly Options (See Figure 2-4 for Breakdown):	1	
	4640843	Prior to S/N 34056		
	4641026	S/N 34056 to Present		
2	Not Used			
3	0140028	Horn	1	
4	0641507	Bolt 5/16"-18NC x 7/8"	2	
5	4751500	Flatwasher 5/16"	3	
6	3311505	Locknut 5/16"-18NC	1	

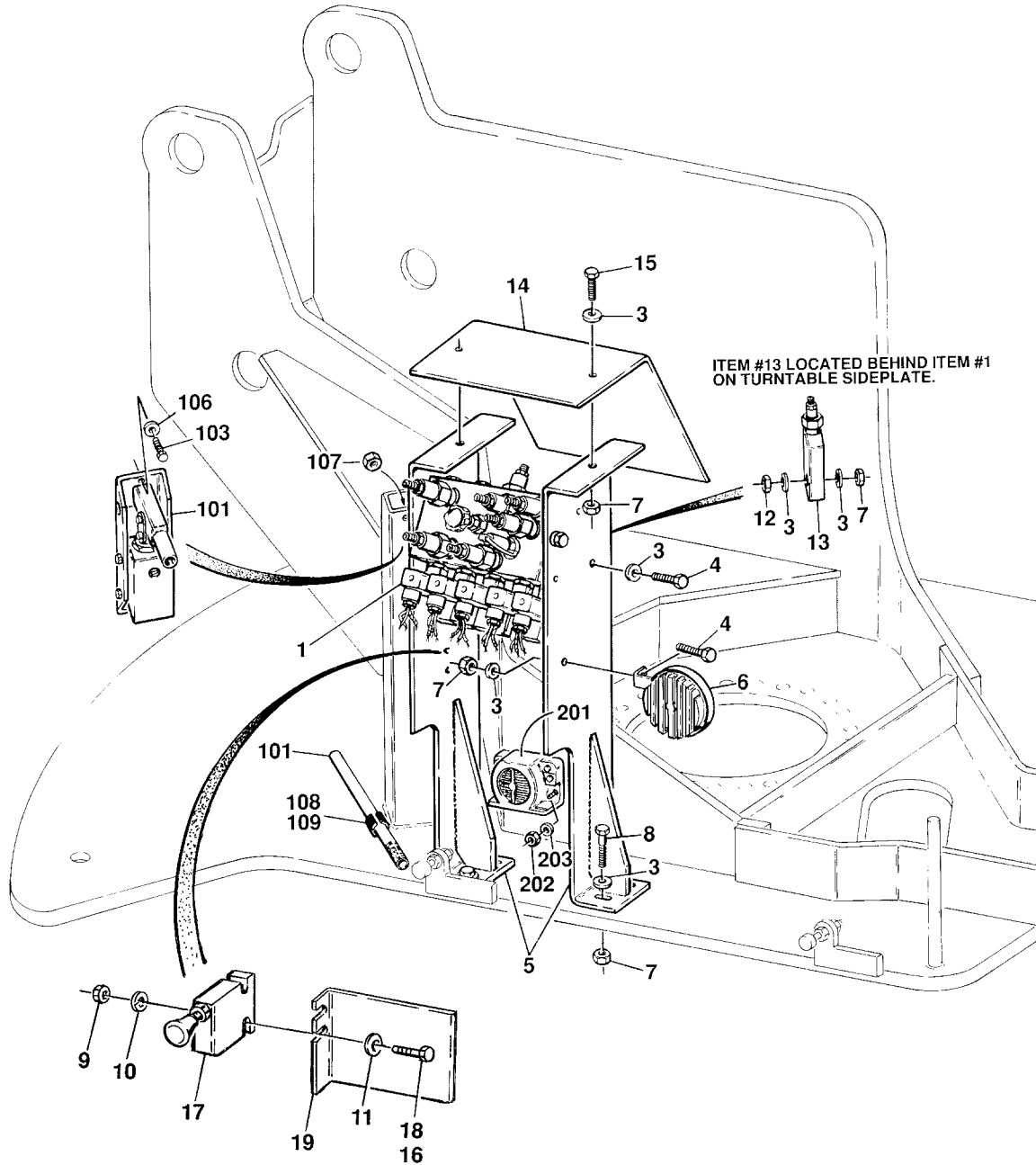
	0100011	Loctite #242	A/R	
		MOTION ALARM KITS		
	2901302	Prior to S/N36648 without Numbered Colored Wire	Ref.	A
	2901600	S/N36648 to Present with Numbered Colored Wire	Ref.	1
101	0140031	Alarm, Motion (Remove ground strap before installation)	1	
102	3311405	Locknut 1/4"-20NC	2	
103	4711400	Flatwasher 1/4"	4	
104	0641410	Bolt 1/4"-20NC x 1 1/4"	2	
105		Harness	1	
	4921425	Prior to S/N36648 without Numbered Colored Wire		
	4922076	S/N36648 to Present with Numbered Colored Wire		

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FIGURE 2-3. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 40electric AND 45electric.

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FIGURE 2-3. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 40ELECTRIC AND 45ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0253650	VALVES AND HORN INSTALLATION	Ref.	8/F
1		Control Valve Assembly Options (See Figure 2-4 for Breakdown):	1	
	4640797	Prior to S/N 0300034056		
	4641025	S/N 0300034056 to Present		
2	Not Used			
3	4711500	Flatwasher 5/16" Thin	12	
4	0641506	Bolt 5/16"-18NC x 3/4"	4	
5	4844365	Bracket, Valve Mounting	1	
6	0140028	Horn	1	
7	3311505	Locknut 5/16"-18NC	7	
8	0641514	Bolt 5/16"-18NC	4	
9	3311401	Nut 1/4"-20NC	6	
10	4761400	Lockwasher 1/4"	4	
11	4751400	Flatwasher 1/4" Regular	6	
12	3311501	Nut 5/16"-18NC	1	
13	4640814	Relief Valve Assembly	1	
	7011322	Cartridge, Valve	1	
14	4060854	Shield, Valve	1	
15	0641508	Bolt 5/16"-18NC x 1"	2	
16	0100011	Loctite #242 (Not Shown)	A1/R	
17	4640866	Manual Valve Assembly	1	
	2900708	Seal Kit - 4640866 VALve	1	
18	0641418	Bolt 1/4"-20NC x 2 1/4"	2	
19	0902051	Bracket, Decal Mounting (Prior to S/N 0300052185)	1	
	0253708	MANUAL DESCENT COMPONENTS INSTALLATION	Ref.	C
101	3600179	Pump Assembly	1	
	2900779	Seal Kit	1	
	7010652	Handle	1	
	Use 3600179	Pump w/o Handle (was p/n 7016673 - No Longer Available)	1	
102	Not Used			
103	0641518	Bolt 5/16"-18NC x 2 1/4"	2	
104 to 105	Not Used			
106	4751500	Flatwasher 5/16" Regular	4	
107	3311501	Nut 5/16"-18NC	2	
108	1380132	Clip, Gripper	1	
109	4300106	Stud, Special	1	

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FIGURE 2-3. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 40ELECTRIC AND 45ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		ALARM KITS		
	2901249	Motion Alarm Kit Prior to S/N 0300036648 without Numbered Colored Wire	Ref.	2
	2901601	Motion Alarm Kit S/N 0300036648 to Present with Numbered Colored Wire	Ref.	1
	2901250	Tilt Alarm Kit	Ref.	A
201	0140031	Alarm, Motion (Remove ground strap before installation)	1	
202	3311405	Locknut 1/4"-20NC	2	
203	4711400	Flatwasher 1/4" Thin	4	
204		Harness Options (Not Shown):	1	
	4921425	Prior to S/N 0300036648 w/o Numbered Colored Wire		
	4922076	S/N 0300036648 to Present with Numbered Colored Wire		

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FIGURE 2-3. TURNTABLE MOUNTED COMPONENTS INSTALLATIONS - MODEL 40ELECTRIC AND 45ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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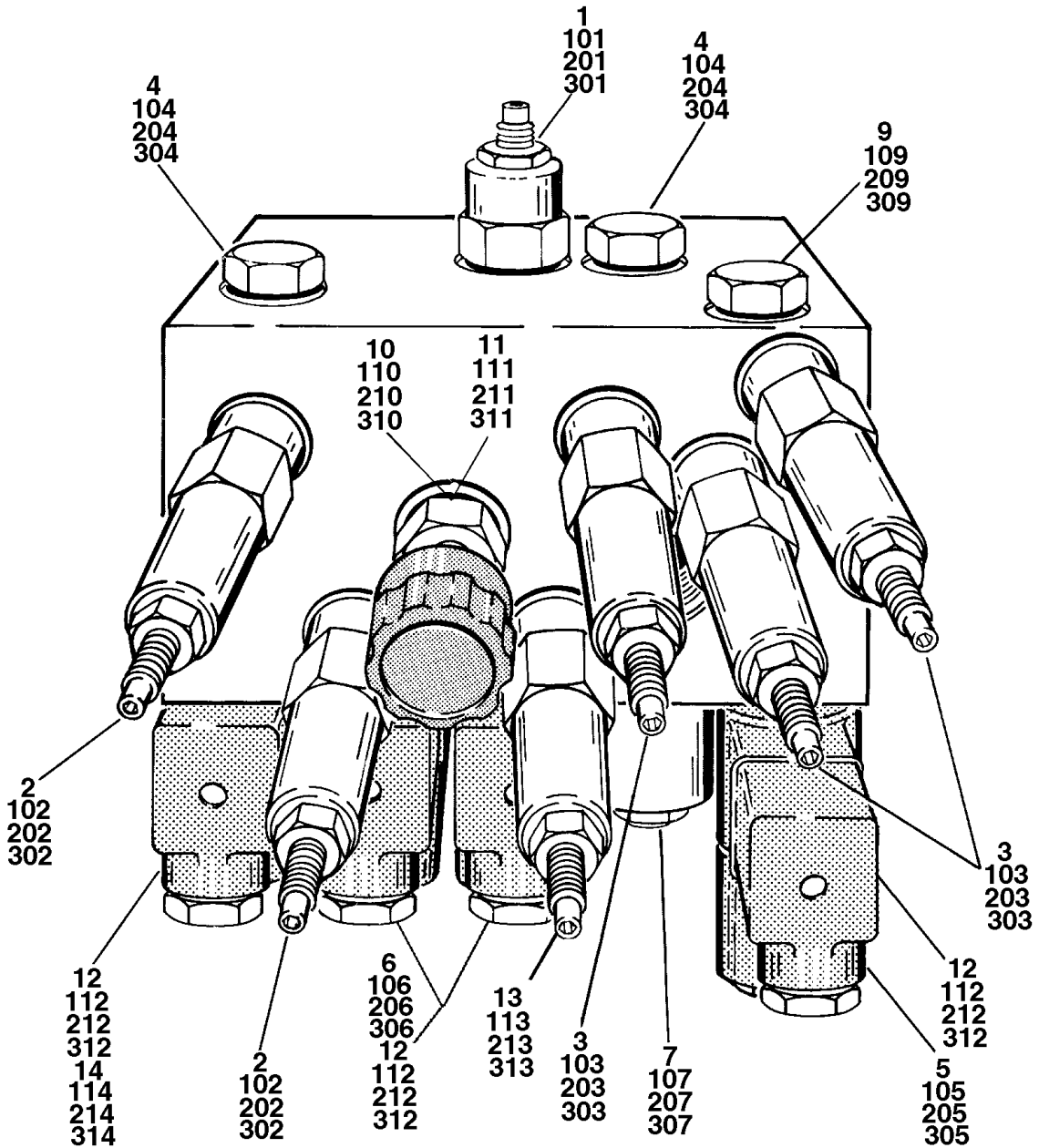
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FIGURE 2-4. CONTROL VALVE ASSEMBLY - MODELS 35electric, 40electric, AND 45electric.

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FIGURE 2-4. CONTROL VALVE ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC, AND 45ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		CONTROL VALVE ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC		
	4640797	CONTROL VALVE ASSEMBLY - MODELS 45electric AND 40electric (PRIOR TO S/N 34056)	Ref.	C
1	7009795	Cartridge, Flow Control Valve (Lower Lift Down)	1	
2	7010540	Cartridge, Relief Valve (Upper Lift Down and Swing)	2	
3	7012912	Cartridge, Relief Valve (Platform Level & Telescope)	3	
4	7010542	Cartridge, Shuttle Valve (Swing)	2	
5	7010546	Cartridge, Solenoid Valve (Platform Level)	1	
	7010538	Coil (2 Per Assembly)	2	
6	7012948	Cartridge, Solenoid Valve (Lift)	2	
	7010538	Coil (2 Per Assembly)	4	
7	7012946	Cartridge, Solenoid Valve (Telescope)	2	
	7010538	Coil (1 Per Assembly)	2	
8	Not Used			
9	7012914	Cartridge, Check Valve (Platform Level)	2	
10	7012947	Cartridge, Valve (Manual Descent)	1	
11	7012949	Knob	1	
12	4460499	Connector, Electrical	8	
13	7012912	Cartridge, Relief Valve (Lower Lift)	1	
14	7010546	Cartridge, Solenoid Valve (Swing)	1	
	7010538	Coil (2 Per Assembly)	2	
	7010545	Seal Kit (For Item 1)	1	
	7010541	Seal Kit (For Items 2, 3 and 13)	6	
	7010543	Seal Kit (For Items 4, 7 and 10)	5	
	7010539	Seal Kit (For Items 5, 6 and 14)	4	
	7012918	Seal Kit (For Item 9)	2	
	7012951	Weatherproofing Kit (For Items 5, 6, 7 and 14)	6	
	4641025	CONTROL VALVE ASSEMBLY - MODELS 45electric AND 40electric (S/N 34056 TO PRESENT)	Ref.	A
101	7012997	Cartridge, Flow Control Valve (Lower Lift Down)	1	
102	7012981	Cartridge, Relief Valve (Upper Lift Down and Swing)	2	
103	7012912	Cartridge, Relief Valve (Platform Level & Telescope)	3	
104	7010542	Cartridge, Shuttle Valve (Swing)	2	
105	7017401	Cartridge, Solenoid Valve (Platform Level)	1	
	7010538	Coil (2 Per Assembly)	2	
106	7012948	Cartridge, Solenoid Valve (Lift)	2	
	7010538	Coil (2 Per Assembly)	4	
107	7012999	Cartridge, Solenoid Valve (Telescope)	2	
	7010538	Coil (1 Per Assembly)	2	
108	Not Used			
109	7012914	Cartridge, Check Valve (Platform Level)	2	
110	7012947	Cartridge, Valve (Manual Descent)	1	
111	7012949	Knob	1	

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FIGURE 2-4. CONTROL VALVE ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC, AND 45ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
112	4460499	Connector, Electrical	8	
113	7012912	Cartridge, Relief Valve (Lower Lift)	1	
114	7017433	Cartridge, Solenoid Valve (Swing)	1	
	7010538	Coil (2 Per Assembly)	2	
	7012901	Seal Kit (For Item 101)	1	
	7012998	Seal Kit (For Items 102, 103 and 113)		
	7010543	Seal Kit (For Items 104)	2	
	7017402	Seal Kit (For Items 105)	2	
	7012903	Seal Kit (For Items 106)	2	
	7012907	Seal Kit (For Items 107)	2	
	7012918	Seal Kit (For Item 109)	2	
	7012518	Seal Kit (For Item 110)	1	
	7017403	Weatherproofing Kit (For Items 106)	2	
	7017435	Weatherproofing Kit (For Items 107)	2	
	7012951	Weatherproofing Kit (For Items 105 and 114)	4	
	4640843	CONTROL VALVE ASSEMBLY - MODEL 35electric (PRIOR TO S/N 34056)	Ref.	—
201	Not Required			
202	7010540	Cartridge, Flow Control Valve (Upper Lift and Swing)	2	
203	7012912	Cartridge, Relief Valve (Platform Level & Telescope)	3	
204	7010542	Cartridge, Shuttle Valve (Swing)	2	
205	7010546	Cartridge, Solenoid Valve (Platform Level and Swing)	1	
	7010538	Coil (2 Per Assembly)	2	
206	7010546	Cartridge, Solenoid Valve	2	
	7010538	Coil (2 Per Assembly)	4	
207	7012946	Cartridge, Solenoid Valve	2	
	7010538	Coil (1 Per Assembly)	2	
208	Not Used			
209	7012914	Cartridge, Check Valve (Platform Level)	2	
210	Not Required			
211	Not Required			
212	4460499	Connector, Electrical	8	
213	7010540	Cartridge, Relief Valve (Lower Lift)	1	
214	7010546	Cartridge, Solenoid Valve (Swing)	1	
	7010538	Coil (2 Per Assembly)	2	
	7010541	Seal Kit (For Items 202, 203 and 213)	6	
	7010543	Seal Kit (For Items 204 and 207)	4	
	7012918	Seal Kit (For Item 209)	2	
	7010539	Seal Kit (For Items 205,206 and 214)	4	
	7012951	Weatherproofing Kit (For Items 205, 206, 207 and 214)	6	

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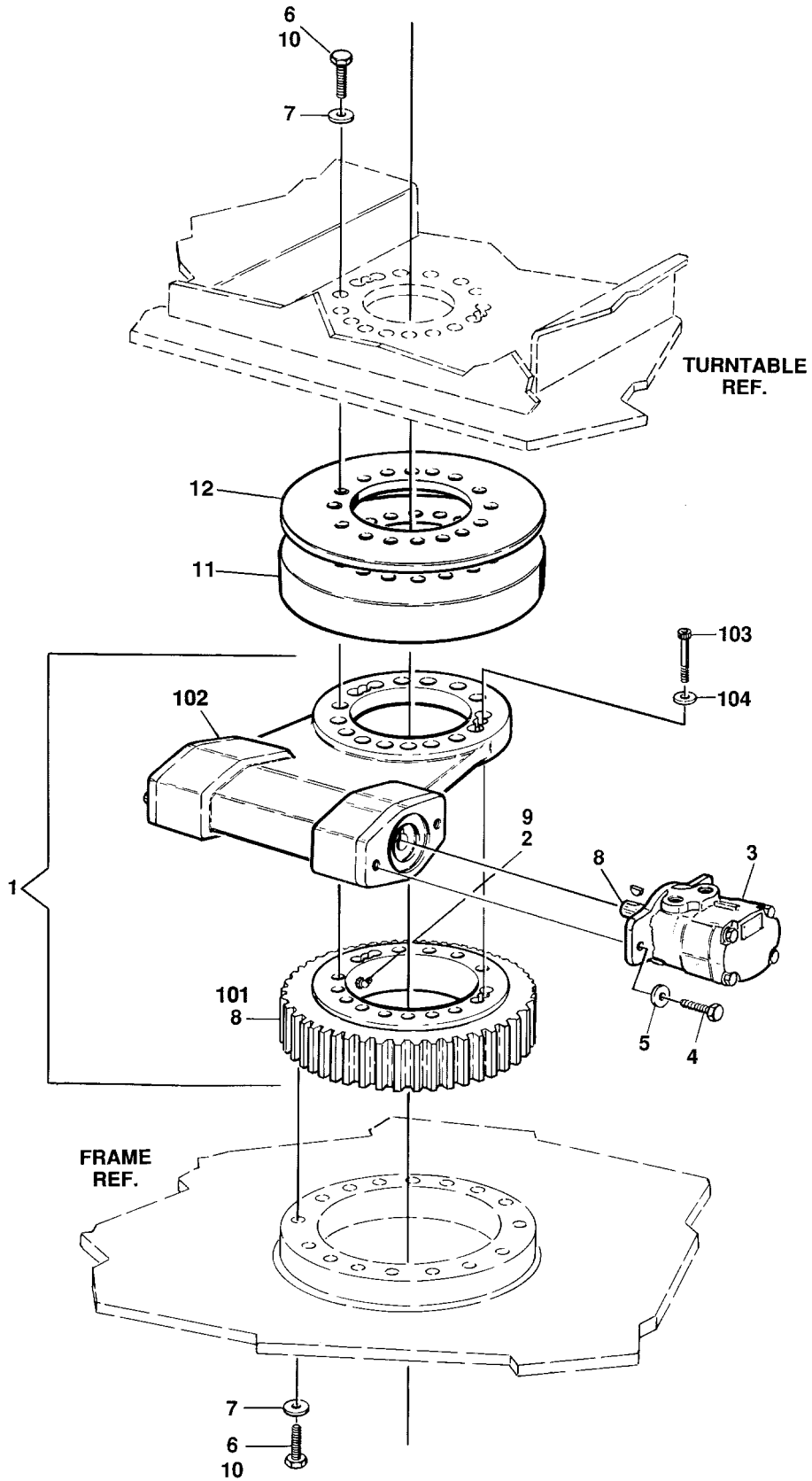
FIGURE 2-4. CONTROL VALVE ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC, AND 45ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	4641026	CONTROL VALVE ASSEMBLY - MODELS 35electric (S/N 34056 TO PRESENT)	Ref.	A
301	Not Required			
302	7012981	Cartridge, Relief Valve (Upper Lift Down and Swing)	2	
303	7012912	Cartridge, Relief Valve (Platform Level & Telescope)	3	
304	7010542	Cartridge, Shuttle Valve (Swing)	2	
305	7010546	Cartridge, Solenoid Valve (Platform Level)	1	
	7010538	Coil (2 Per Assembly)	2	
306	7010546	Cartridge, Solenoid Valve (Lift)	2	
	7010538	Coil (2 Per Assembly)	4	
307	7012946	Cartridge, Solenoid Valve (Telescope)	2	
	7010538	Coil (1 Per Assembly)	2	
308	Not Used			
309	7012914	Cartridge, Check Valve (Platform Level)	2	
310	Not Required			
311	Not Required			
312	4460499	Connector, Electrical	8	
313	7012981	Cartridge, Relief Valve (Lower Lift)	1	
314	7010537	Cartridge, Solenoid Valve (Swing)	1	
	7010538	Coil (2 Per Assembly)	2	
	7012998	Seal Kit (For Items 302, 303 and 313)	1	
	7010543	Seal Kit (For Items 304 and 307)	2	
	7017402	Seal Kit (For Items 305 and 306)	2	
	7012918	Seal Kit (For Item 309)	2	

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FIGURE 2-5. SWING DRIVE AND TURNTABLE BEARING INSTALLATIONS - MODELS 30electric AND 35electric.



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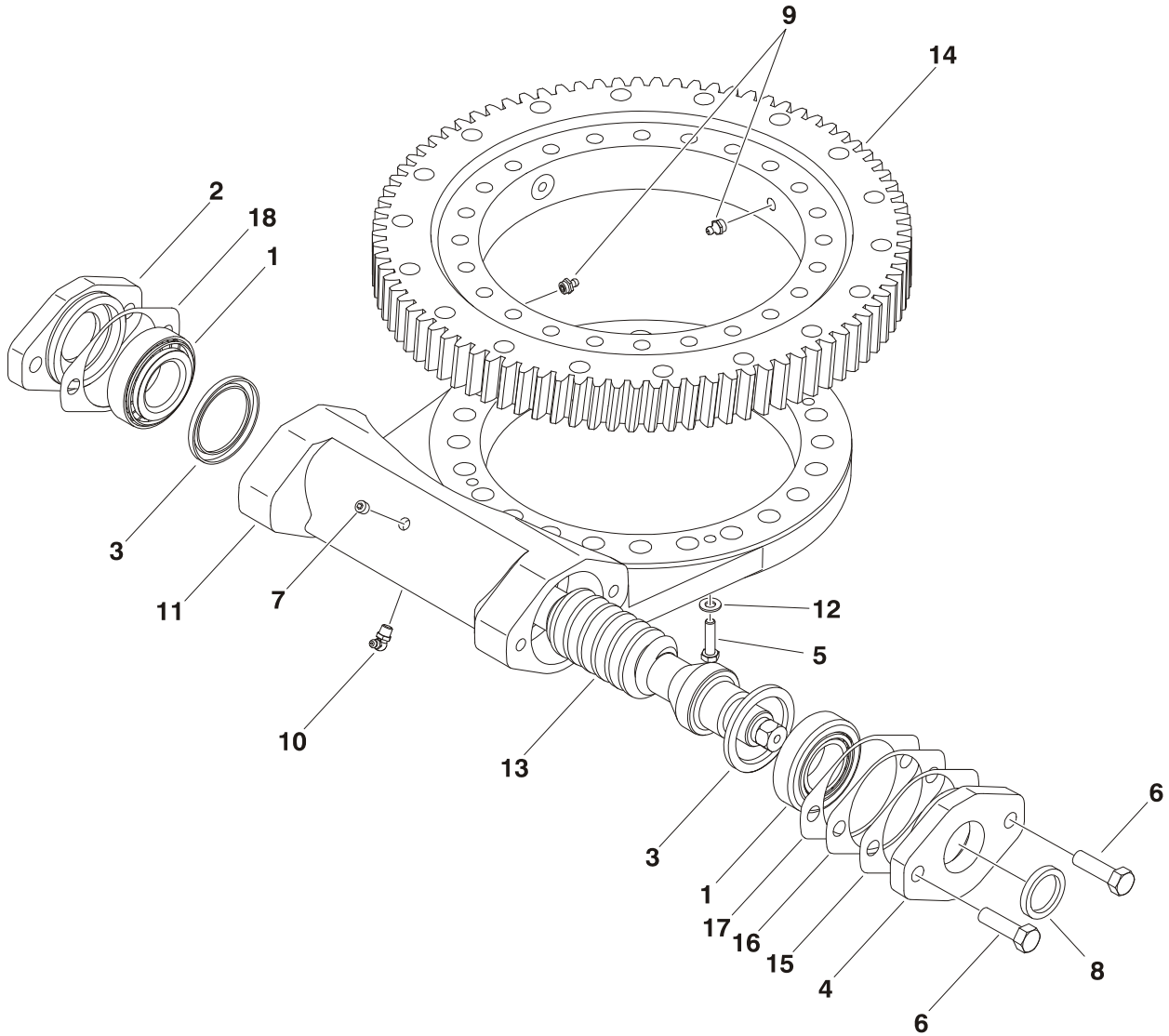
FIGURE 2-5. SWING DRIVE AND TURNTABLE BEARING INSTALLATIONS - MODELS 30ELECTRIC AND 35ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		SWING DRIVE AND TURNTABLE BEARING INSTALLATIONS		
	0253185	30electric	Ref.	4
	0254830	n35electric	Ref.	3
	0254831	35electric	Ref.	3
1		Turntable Bearing and Rotation Box Assembly Options:	1	
	0440202	Production (See Items 101-104 for Breakdown)		
	0440338	Post Production Service Replacement (See Figure 2-6 for Breakdown)		
2	2160003	Fitting, Grease - 45°	1	
3	3160182	Swing Motor Assy (See Figure 2-7 for Breakdown)	1	
4	0681814	Bolt 1/2"-13NC x 1 3/4" (Grade 8)	2	
5	4740171	Washer, Hardened	2	
6		Bolt	A/R	
	0682022	30electric (5/8"-20NC x 2 3/4" Grade 8)	32	
	0682024	n35electric (5/8"-20NC x 3" Grade 8)	16	
	0682040	n35electric (5/8"-20NC x 5" Grade 8)	16	
	0682024	35electric (5/8"-20NC x 3" Grade 8)	32	
7	4892000	Washer, Hardened	32	
8	3020027	Grease, Bearing (5 Gallon Bucket) (Prior to S/N 31641)	A/R	
	3020036	Grease, Bearing (S/N 31641 to Present)	A/R	
9	3020029	Grease, Bearing	A/R	
10	0100019	Loctite #271	A/R	
11		Plate, Counterweight Options:	A/R	
	Not Required	30electric & 35electric	0	
	4844797	n35electric	1	
12		Plate, Spacer Options:	A/R	
	Not Required	30electric & 35electric	0	
	3538052	n35electric	1	
	0440202	TURNTABLE BEARING AND ROTATION BOX ASSEMBLY (PRODUCTION)	Ref.	C
101	7012584	Bearing, Turntable	1	
102	7012585	Swing Rotation Box Assembly	1	
	7012654	Seal, Outer - Capped End	1	
	7012655	Seal, Outer - Motor End	1	
	7016682	Shims Kit	1	
	7023484	Cap, End	1	
103	3931414	Bolt, Socket Head 1/4"-20NC	2	
104	4761400	Lockwasher 1/4"	2	

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FIGURE 2-6. SWING BEARING ASSEMBLY - MODELS 30electric AND 35electric
(POST PRODUCTION SERVICE REPLACEMENT)

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FIGURE 2-6. SWING BEARING ASSEMBLY - MODELS 30ELECTRIC AND 35ELECTRIC (POST PRODUCTION SERVICE REPLACEMENT)

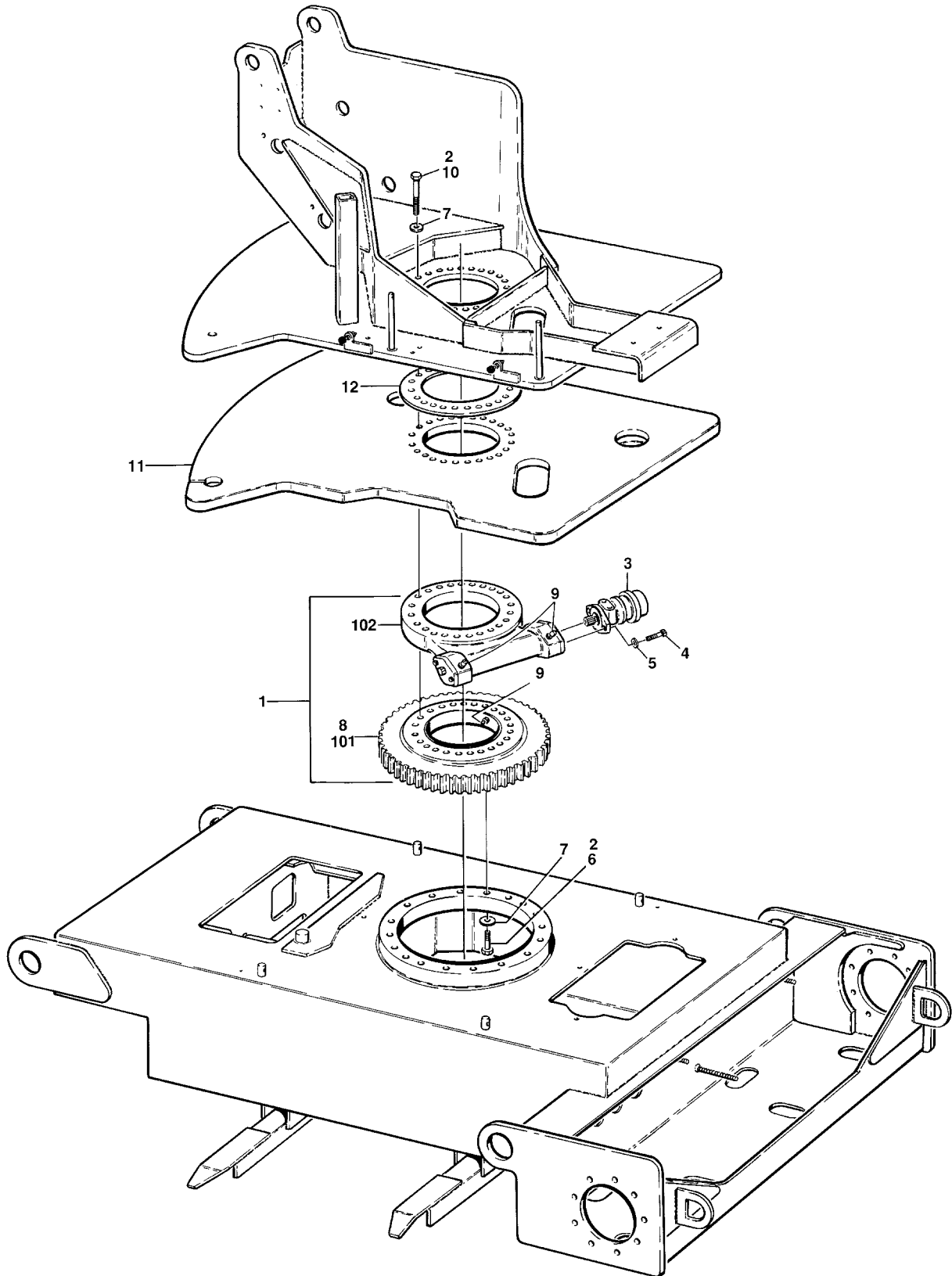
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0440338	SWING BEARING ASSEMBLY	Ref.	A
1	7026042	Cup, Bearing	2	
	7026043	Cone, Bearing	2	
2	7027356	Adapter, Motor	1	
3	7027361	Seal	2	
4	7027354	Cap, End	1	
5	70000864	Bolt, 1/4"-20 x 1 1/8"	2	
6	0641812	Bolt, 1/2"-13 x 1 1/2"	2	
7	70000865	Plug	1	
8	7027360	Seal	1	
9	7027359	Fitting, Grease	1	
10	7027358	Fitting, Grease	2	
11	Not Available	Housing	1	
12	4891400	Flatwasher, 1/4"	2	
13	70000866	Gear, Worm	1	
14	70000867	Gear, Ring	1	
15	7027352	Gasket, .010 (Brown)	A/R	
16	7027351	Gasket, .0075 (Clear)	A/R	
17	7027350	Gasket, .005 (Blue)	A/R	
18	7027353	Gasket, .020 (Yellow)	1	

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FIGURE 2-7. SWING DRIVE AND TURNTABLE BEARING INSTALLATIONS - MODELS 40electric AND 45electric.

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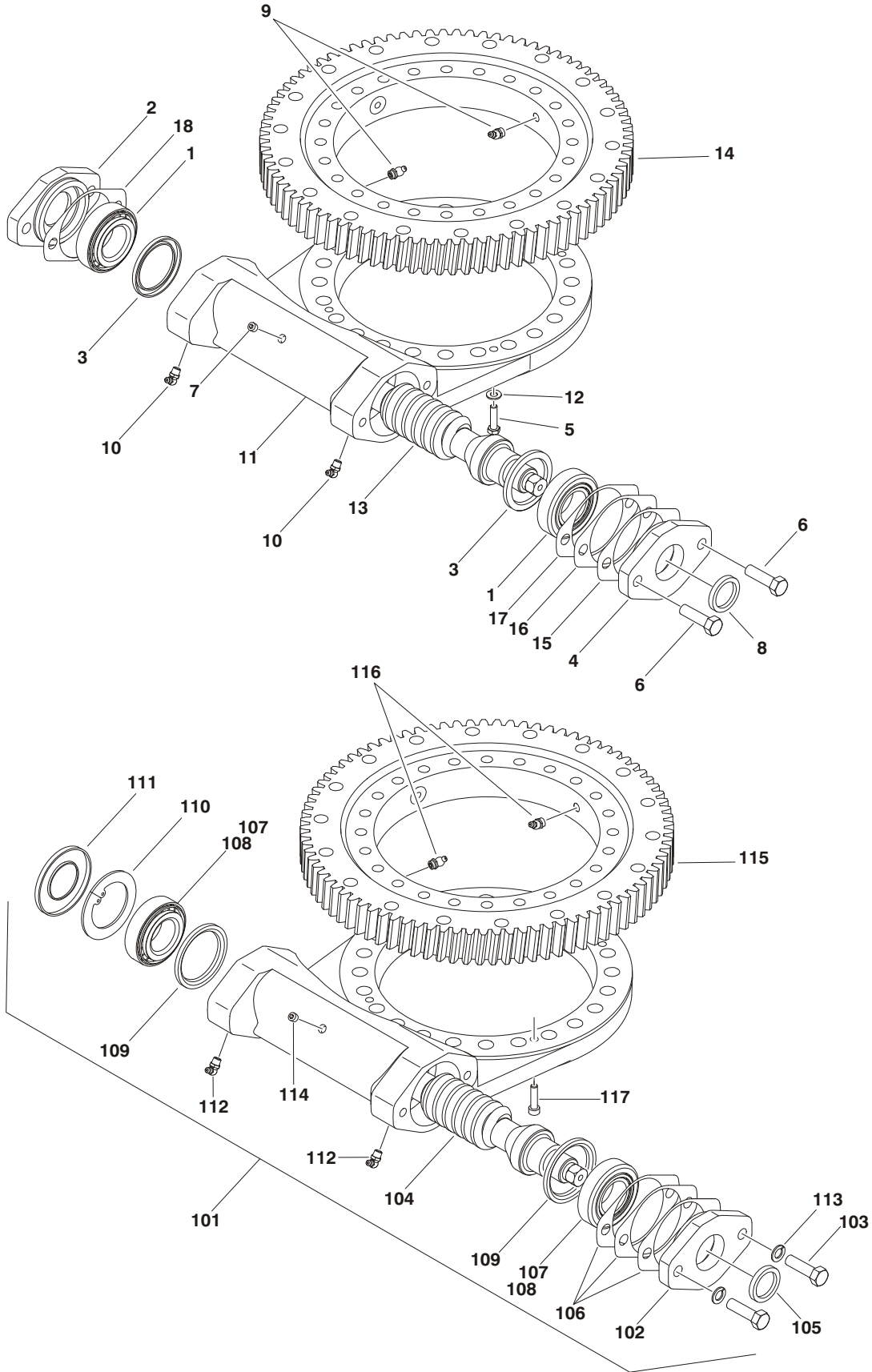
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FIGURE 2-7. SWING DRIVE AND TURNTABLE BEARING INSTALLATIONS - MODELS 40ELECTRIC AND 45ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		SWING DRIVE AND TURNTABLE BEARING INSTALLATION		
	0253508	40electric	Ref.	3
	0253533	n40electric	Ref.	4
	0253508	45electric	Ref.	3
1		Turntable Bearing and Rotation Box Assembly Options:	1	
	0440203	Production (See Items 101-102 for Breakdown)		
	0440339	Post Production Service Replacement (See Figure 2-8 for Breakdown)		
2	0100019	Loctite	A/R	
3	3160182	Swing Motor Assy (See Figure 2-9 for Breakdown)	1	
4	0681814	Bolt 1/2"-13NC x 1 3/4" Grade 8	2	
5	4740171	Washer, Hardened	2	
6	0682026	Bolt 5/8"-11NC x 3 1/4"	18	
7	4740393	Washer, Hardened	42	
8	3020027	Grease, Bearing (5 Gallon Bucket) (Prior to S/N 31641)	A/R	
	3020036	Grease, Bearing (S/N 31641 to Present)	A/R	
9	3020029	Grease, Bearing	A/R	
10		Bolt Options:	24	
	0682028	40electric (Bolt 5/8"-11NC x 3 1/2" Grade 8)	24	
	0682048	n40electric (Bolt 5/8"-11NC x 6" Grade 8)	24	
	0682028	45electric (Bolt 5/8"-11NC x 3 1/2" Grade 8)	24	
11		Plate, Counterweight Options:	A/R	
	Not Required	40electric & 45electric	0	
	4844595	n40electric	1	
12		Plate, Spacer Options:	A/R	
	Not Required	40electric & 45electric	0	
	3536755	n40electric	1	
	0440203	TURNTABLE BEARING AND ROTATION BOX ASSEMBLY (PRODUCTION)	Ref.	E
101	7012596	Bearing, Turntable	1	
102	7012597	Swing Rotation Box Assembly	1	
	7012654	Seal, Outer - Capped End (1.75 O.D.)	1	
	7016676	Seal, Outer - Capped End (2.063 O.D.)	1	
	7012655	Seal, Outer - Motor End	1	

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FIGURE 2-8. SWING BEARING ASSEMBLY - MODELS 40electric AND 45electric (POST PRODUCTION SERVICE REPLACEMENT)



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FIGURE 2-8. SWING BEARING ASSEMBLY - MODELS 40ELECTRIC AND 45ELECTRIC (POST PRODUCTION SERVICE REPLACEMENT)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		Note: Visually identify the brand before ordering replacement parts.	Ref.	
	0440339	SWING BEARING ASSEMBLY (PERFECTION GEAR) (POST PRODUCTION)	Ref.	C
1	7026042	Bearing, Cup	2	
	7026043	Bearing, Cone	2	
2	7027356	Adapter, Motor	1	
3	7027361	Seal	2	
4	7027354	Cap, End	1	
5	0641510	Bolt 5/16"-18NC x 1 1/4"	2	
6	0641812	Bolt 1/2"-13NC x 1 1/2"	2	
7	70000865	Plug	1	
8	7027360	Seal	1	
9	7027359	Straight Fitting, Grease	2	
	2160003	Fitting, Grease - 45°	2	
10	7027358	90° Fitting, Grease	2	
11	Not Available	Housing	1	
12	4891500	Flatwasher 5/16" (Hardened)	2	
13	7027363	Gear, Worm	1	
14	70000868	Ring, Bearing	1	
15	7027352	Gasket (.010 - Brown)	A/R	
16	7027351	Gasket (.0075 - Clear)	A/R	
17	7027350	Gasket (.005 - Blue)	A/R	
18	7027353	Gasket (.020 - Yellow)	1	
	0440203	SWING BEARING ASSEMBLY (KAYDON) (PRODUCTION)	Ref.	G
		Note: When replacing major components, consider replacing with p/n 0440339 Complete Bearing Assembly.		
101	7012597	Swing Rotation Box Assembly	1	
102	7023484	Cap, End	1	
103	Not Available	Bolt 1/2"-13NC x 1 1/2" Grade 8	2	
104	Not Available	Gear, Worm	1	
105	7012654	Seal, Outer - Capped End (1.75 O.D.)	1	
106	7016682	Shims Kit (Includes Qty 3 each of .005, .0075 & .010 Shims)	1	
107	70001677	Cup, Bearing	2	
108	90206369	Cone, Bearing	2	
109	7016676	Seal, Outer - Capped End (2.063 O.D.)	1	
110	Not Available	Ring, Retaining	1	
111	7012655	Seal, Outer - Motor End	1	
112	2160001	Fitting, Grease - 90°	2	
113	Not Available	Lockwasher 1/2"	2	
114		Component Options:	1	
	Not Available	Plug, Pipe		
	2160001	Fitting, Grease - 45°		
115	7012596	Bearing, Turntable	1	

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FIGURE 2-8. SWING BEARING ASSEMBLY - MODELS 40ELECTRIC AND 45ELECTRIC (POST PRODUCTION SERVICE REPLACEMENT) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
116	2160003	Fitting, Grease - 45°	2	
117	Not Available	Capscrew, Socket Head 5/16"-18NC	4	
	Not Available	Washer 5/16" (Not Shown)	4	

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FIGURE 2-8. SWING BEARING ASSEMBLY - MODELS 40ELECTRIC AND 45ELECTRIC (POST PRODUCTION SERVICE REPLACEMENT) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

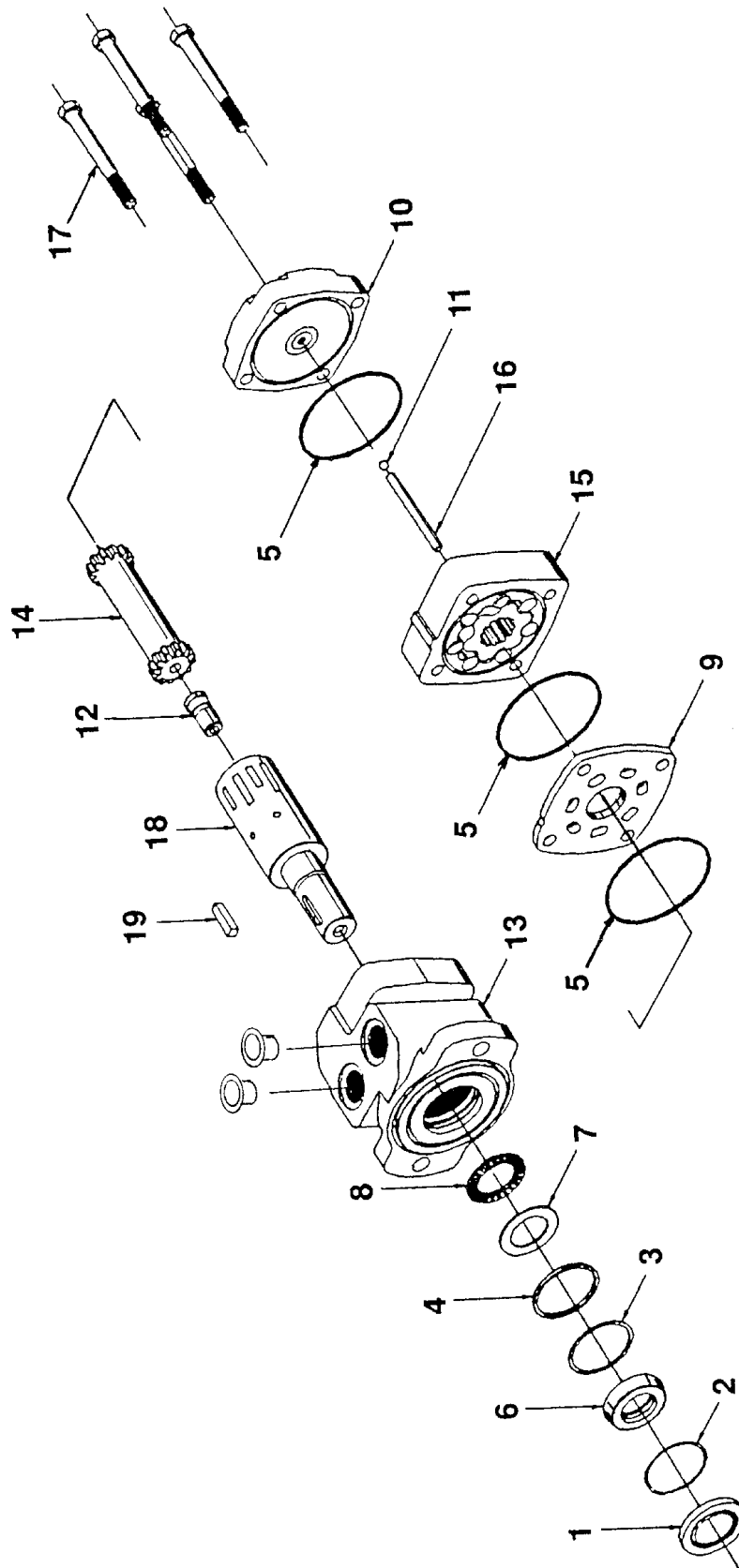
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FIGURE 2-9. SWING MOTOR ASSEMBLY.



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FIGURE 2-9. SWING MOTOR ASSEMBLY.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	3160182	SWING MOTOR ASSEMBLY	Ref.	—
1	Kit	Seal, Dust	1	
2	Kit	Ring, Retainer	1	
3	Kit	Shim, Back-up	1	
4	Kit	Seal, Housing	1	
5	Kit	Seal, Body	3	
6	Kit	Seal, Shaft	1	
	Kit	Ring, Teflon Back-up	1	
	Kit	Shim, Back-up	1	
7	7016417	Washer, Thrust	1	
8	7005809	Bearing, Thrust	1	
9	7005812	Plate, Wear	1	
10	7005874	Cover, End	1	
11	Not Available	Ball (Part of Item 10)	A/R	
12	7005876	Plug, Cooling	1	
13	7005804	Housing	1	
14	7005811	Link, Drive	1	
15	7005877	Rotor Set Assembly	1	
16	7005878	Pin, Drive Link	A/R	
17	7005821	Bolt	4	
18	7005879	Shaft	1	
19	7005880	Key	1	

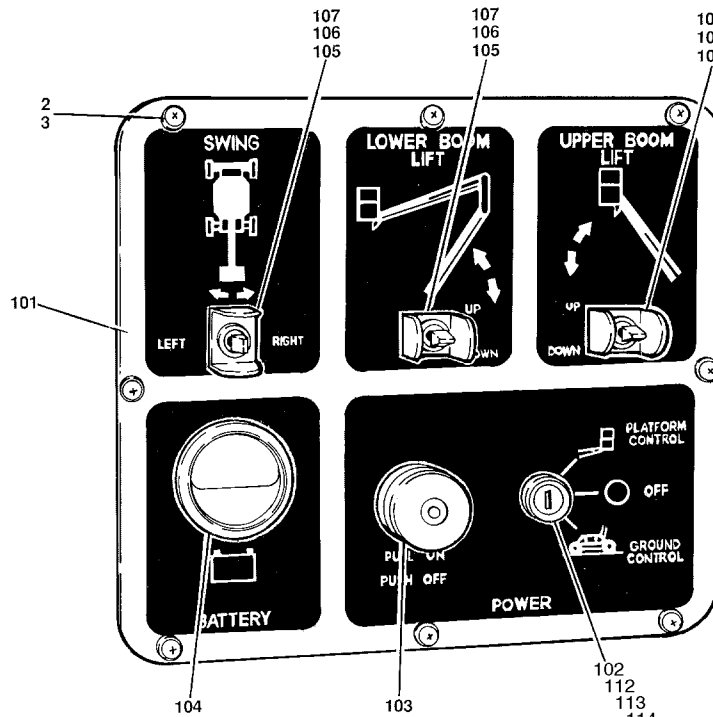
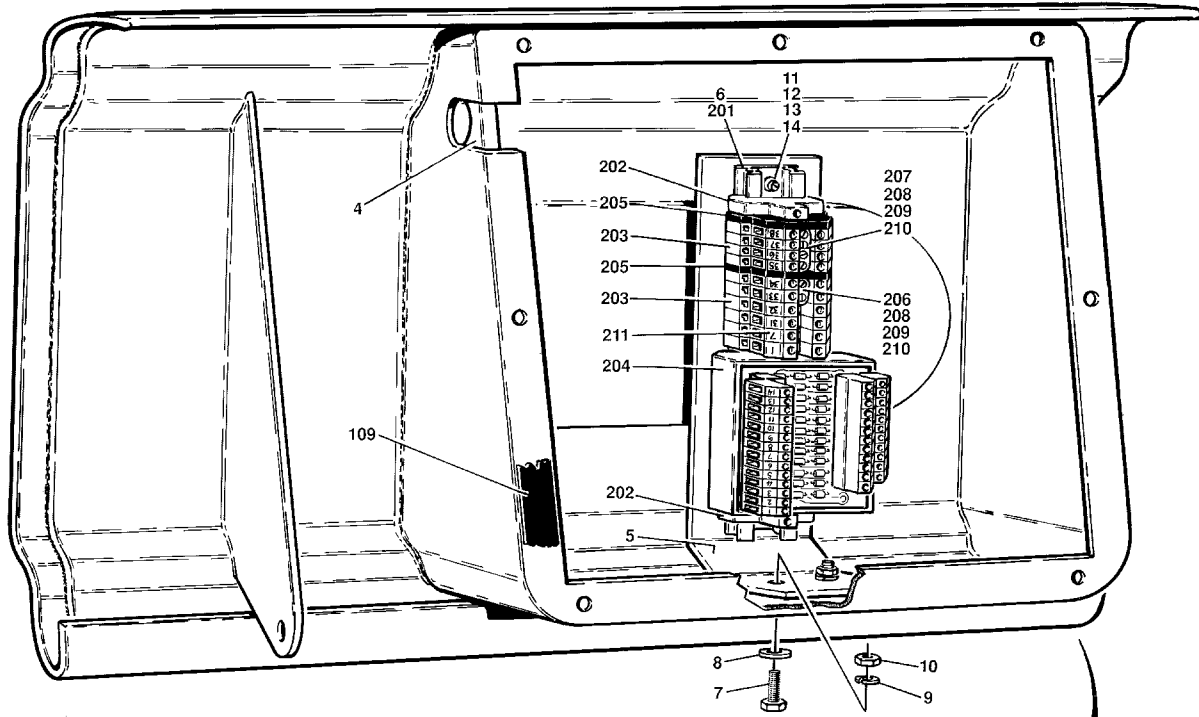
	7005881	Seal Kit (Includes Items 1-6)	1	

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FIGURE 2-10. GROUND CONTROL COMPONENTS INSTALLATIONS - MODEL 30electric.

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NOTE: Item 108 not shown.

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FIGURE 2-10. GROUND CONTROL COMPONENTS INSTALLATIONS - MODEL 30ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		GROUND CONTROL BOX INSTALLATION		
	0254739	Standard Spec Prior to S/N 36544 Without Numbered Colored Wire	Ref.	A
	0258046	Standard Spec S/N36544 to Present with Numbered Colored Wire	Ref.	1
	0254740	Japanese Spec Prior to S/N 36544 Without Numbered Colored Wire	Ref.	A
	0258045	Japanese Spec S/N36544 to Present with Numbered Colored Wire	Ref.	1
1	Not Used			
2	0630464	Screw #10-24NC x 1/2"	8	
3	4740120	Washer, Nylon	8	
4	1380139	Clip	1	
5	3537992	Plate, Mounting	1	
6	4460545	Terminal Strip Assembly (See Items 201-211 for Breakdown)	1	
7	0641406	Bolt 1/4"-20NC x 3/4"	2	
8	4740362	Flatwasher, Special	2	
9	4751400	Flatwasher 1/4"	2	
10	3311405	Locknut 1/4"-20NC	2	
11	3910608	Screw #6-32NC x 1/2"	2	
12	4760600	Lockwasher #6	2	
13	4750600	Flatwasher #6	2	
14	3310601	Nut #6-32NC	2	
		GROUND CONTROL BOX ASSEMBLY		
	0860914	Standard Spec Prior to S/N 36544 Without Numbered Colored Wire	Ref.	2
	0861180	Standard Spec S/N36544 to Present with Numbered Colored Wire	Ref.	2
	0860915	Japanese Spec Prior to S/N 36544 Without Numbered Colored Wire	Ref.	A
	0861181	Japanese Spec S/N36544 to Present with Numbered Colored Wire	Ref.	2
101		Nameplate, Ground Control Options:	1	
	3252349	Prior to S/N 47045		
	3252648	S/N 47045 to Present		
102	4360346	Switch, Master Key (Select) (Prior to S/N 47045)	1	
	7012587	Key, Replacement	1	
	4360473	Switch, Master Key (Select) (S/N 47045 to Present)	1	
	2860030	Key, Replacement	1	
103	4360289	Switch, Emergency Stop (Prior to S/N 47045)	1	
	7012611	Head, Mushroom	1	
	7012612	Boot	1	
	4360475	Switch, Emergency Stop (S/N 47045 to Present)	1	
	7020175	Cap/E-Stop With Sealing Ring	1	
	7020176	Contact Block With Mount Collar	1	
104	2420106	Meter, Battery Capacity	1	

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FIGURE 2-10. GROUND CONTROL COMPONENTS INSTALLATIONS - MODEL 30ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
105	4360314	Switch, Toggle	3	
106	4060802	Shield, Toggle Switch	3	
107	4740397	Washer, Spacer	3	
108	4460234	Mount, Cable Tie (Located on Back of Nameplate)	3	
109	4420037	Tape, Insulation	4 ft./1.2m	
110	Not Used			
111	Not Required			
112	4070987	Shim,.015 (S/N 47045 to Present)	1	
113	4070991	Shim,.125 (S/N 47045 to Present)	1	
114	3910804	Screw #8-32NC x 1/4" (S/N 47045 to Present)	6	
	4460545	TERMINAL STRIP ASSEMBLY	Ref.	—
201	3640930	Rail	1	
202	4460299	Stop, Terminal	2	
203	4460298	Block, Terminal	10	
204	0610107	Card, Circuit	1	
205	4460300	Barrier, Terminal	2	
206	4460308	Bar, Buss - 2 Position	1	
207	4460310	Bar, Buss - 4 Position	1	
208	4460305	Screw	6	
209	4460306	Washer	6	
210	4460307	Sleeve	6	
211	4460301	Strip, Marking	2	

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FIGURE 2-10. GROUND CONTROL COMPONENTS INSTALLATIONS - MODEL 30ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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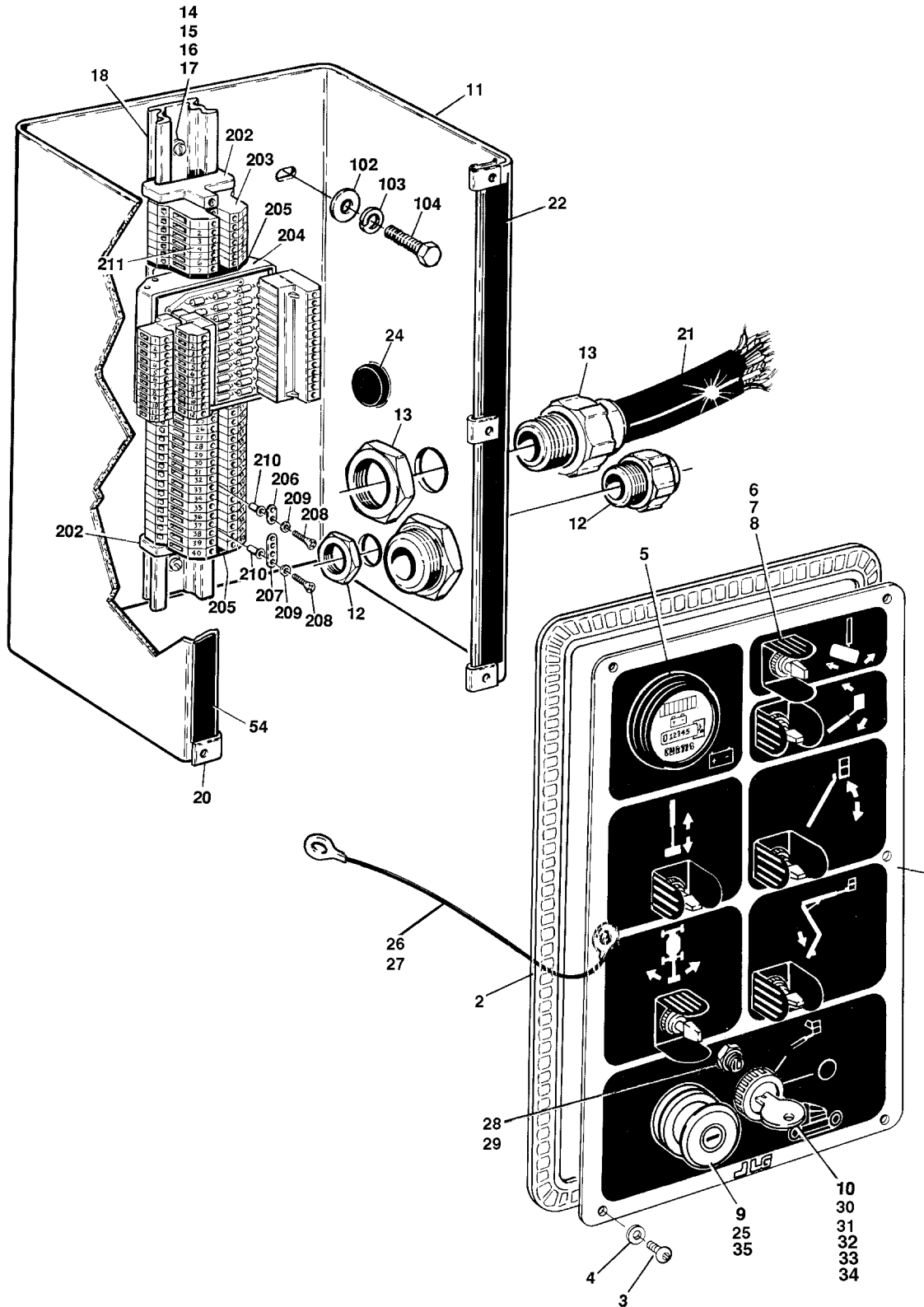
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FIGURE 2-11. GROUND CONTROL COMPONENTS INSTALLATIONS - MODELS 35electric, 40electric, AND 45electric.

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FIGURE 2-11. GROUND CONTROL COMPONENTS INSTALLATIONS - MODELS 35ELECTRIC, 40ELECTRIC, AND 45ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		GROUND CONTROL BOX ASSEMBLY		
	0860916	Standard Spec 35electric Prior to S/N36648 without Numbered Colored Wire	Ref.	6
	0861188	Standard Spec 35electric S/N36648 to Present with Numbered Colored Wire	Ref.	4
	0860918	Standard Spec 40electric & 45electric Prior S/N 36648 without Numbered Colored Wire	Ref.	3
	0861190	Standard Spec 40electric & 45electric S/N36648 to Present without Numbered Colored Wire	Ref.	3
	0860917	Japanese Spec 35electric Prior to S/N36648 without Numbered Colored Wire	Ref.	5
	0861189	Japanese Spec 35electric S/N36648 to Present with Numbered Colored Wire	Ref.	4
	0860919	Japanese Spec 40electric & 45electric Prior to S/N36648 without Numbered Colored Wire	Ref.	3
	0861191	Japanese Spec 40electric & 45electric S/N36648 to Present without Numbered Colored Wire	Ref.	3
1		Lid Options:	1	
	3252350	35electric (Prior to S/N 47045)		
	3252649	35electric (S/N 47045 to Present)		
	3252351	40electric & 45electric		
2		Seal Options:	50 in./1.3m	
	3960447	35electric		
	3960438	40electric & 45electric		
3	0630464	Screw #10-24NC x 1/2"	6	
4	4740120	Washer, Nylon	6	
5	2420106	Voltmeter	1	
	7012665	Guard, Domed	1	
6	4360314	Switch, Toggle	6	
7	4060802	Guard, Switch	6	
8	4740397	Spacer	6	
9	4360289	Switch, Emergency Stop (Prior to S/N 47045)	1	
	7012611	Head, Mushroom	1	
	7012612	Boot	1	
	4360475	Switch, Emergency Stop (S/N 47045 to Present)	1	
	7020175	Cap/E-Stop With Sealing Ring	1	
	7020176	Contact Block With Mount Collar	1	
10	4360346	Switch, Master Key (Select) (Standard Spec) (Prior to S/N 47045)	1	
	7012587	Key, Replacement	1	
	4360473	Switch, Master Key (Select) (Standard Spec) (S/N 47045 to Present)	1	
	2860030	Key, Replacement	1	
	4360347	Switch, Master Key (Select) (Japanese Spec) (Prior to S/N 47045)	1	
	7012587	Key, Replacement	1	
	4360474	Switch, Master Key (Select) (Japanese Spec) (S/N 47045 to Present)	1	
	2860030	Key, Replacement	1	

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FIGURE 2-11. GROUND CONTROL COMPONENTS INSTALLATIONS - MODELS 35ELECTRIC, 40ELECTRIC, AND 45ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
11		Box Weldment Options:	A/R	
	Not Required	35electric	0	
	0860883	40electric & 45electric	1	
12	4460425	Connector, Strain Relief	2	
13	4460426	Connector, Strain Relief	1	
14	3910608	Screw, Round Head #6-32NC x 1/2"	2	
15	4760600	Lockwasher #6	2	
16	4750600	Flatwasher #6	2	
17	3310601	Nut #6-32NC	2	
18	4460530	Terminal Strip Assembly (See Items 201-211 for Breakdown)	1	
19	Not Used			
20	3300365	Nut, Retainer	6	
21		Harness - Chassis and Valve Options (See Section 7 for Breakdown):	1	
	4921643	Prior to S/N36648 without Numbered Colored Wire		
	4922039	S/N36648 to Present with Numbered Colored Wire		
22	4420008	Tape, Seal	4 ft./3m	
23	0100048	Silicone (Not Shown)	A/R	
24		Plug, Hole Options:	A/R	
	Not Required	35electric	0	
	3520084	40electric & 45electric	1	
25		Block, Contact Options:	1	
	4360282	Prior to S/N 47045		
	4360476	S/N 47045 to Present		
26		Cable, Lanyard Options:	A/R	
	Not Required	35electric	0	
	1060584	40electric & 45electric	1	
27	3311011	Nut, Push #10	A/R	
28	4360069	Breaker, Circuit - 10 Amp (March 1995 to Present Only)	1	
29	3300396	Nut, Special (March 1995 to Present Only)	1	
30	3300412	Nut, Keyswitch (35electric Only) (S/N 34783 to S/N 49748 Only)	1	
31	3300413	Nut, Cap (35electric Only) (S/N 34783 to S/N 49748 Only)	1	
32	4070987	Shim,.015 (S/N 47045 to Present)	1	
33	4070991	Shim,.125 (S/N 47045 to Present)	1	
34	3910804	Screw #8-32NC x 1/4" (S/N 47045 to Present)	6	
35	1704260	Decal - EMS (Japanese Spec Only) (S/N 47045 to Present)	1	

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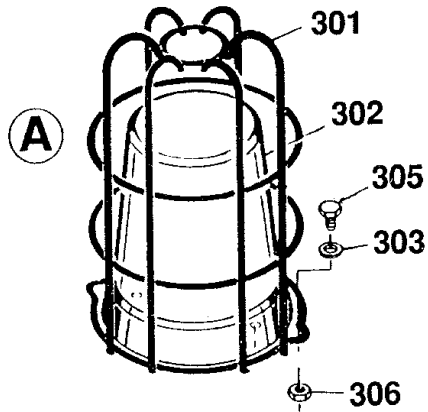
FIGURE 2-11. GROUND CONTROL COMPONENTS INSTALLATIONS - MODELS 35ELECTRIC, 40ELECTRIC, AND 45ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		GROUND CONTROL BOX INSTALLATIONS		
	0254536	Standard Spec 35electric Prior to S/N36648 without Numbered Colored Wire	Ref.	A
	0258061	Standard Spec 35electric S/N36648 to Present with Numbered Colored Wire	Ref.	1
	0254399	Standard Spec 40electric & 45electric Prior to S/N36648 without Numbered Colored Wire	Ref.	A
	0258063	Standard Spec 40electric & 45electric S/N36648 to Present without Numbered Colored Wire	Ref.	1
	0254537	Japanese Spec 35electric Prior to S/N36648 without Numbered Colored Wire	Ref.	A
	0258062	Japanese Spec 35electric S/N36648 to Present with Numbered Colored Wire	Ref.	1
	0254400	Japanese Spec 40electric & 45electric Prior to S/N36648 without Numbered Colored Wire	Ref.	A
	0258064	Japanese Spec 40electric & 45electric S/N36648 to Present without Numbered Colored Wire	Ref.	1
101	Not used			
102	0641605	Bolt 3/8"-16NC x 5/8"	4	
103	4761600	Lockwasher 3/8"	4	
104	4751600	Flatwasher 3/8"	4	
	4460530	TERMINAL STRIP ASSEMBLY	Ref.	A
201	3640920	Rail, Mounting	1	
202	4460299	Stop, Terminal	2	
203	4460298	Block, Terminal	26	
204	0610107	Card, Circuit	1	
205	4460300	Barrier, Terminal	3	
206	4460308	Bar, Buss - 2 Position	1	
207	4460310	Bar, Buss - 4 Position	1	
208	4460305	Screw, Terminal	6	
209	4460306	Washer, Terminal	6	
210	4460307	Sleeve, Terminal	6	
211	4460301	Strip, Terminal Numbering	2	

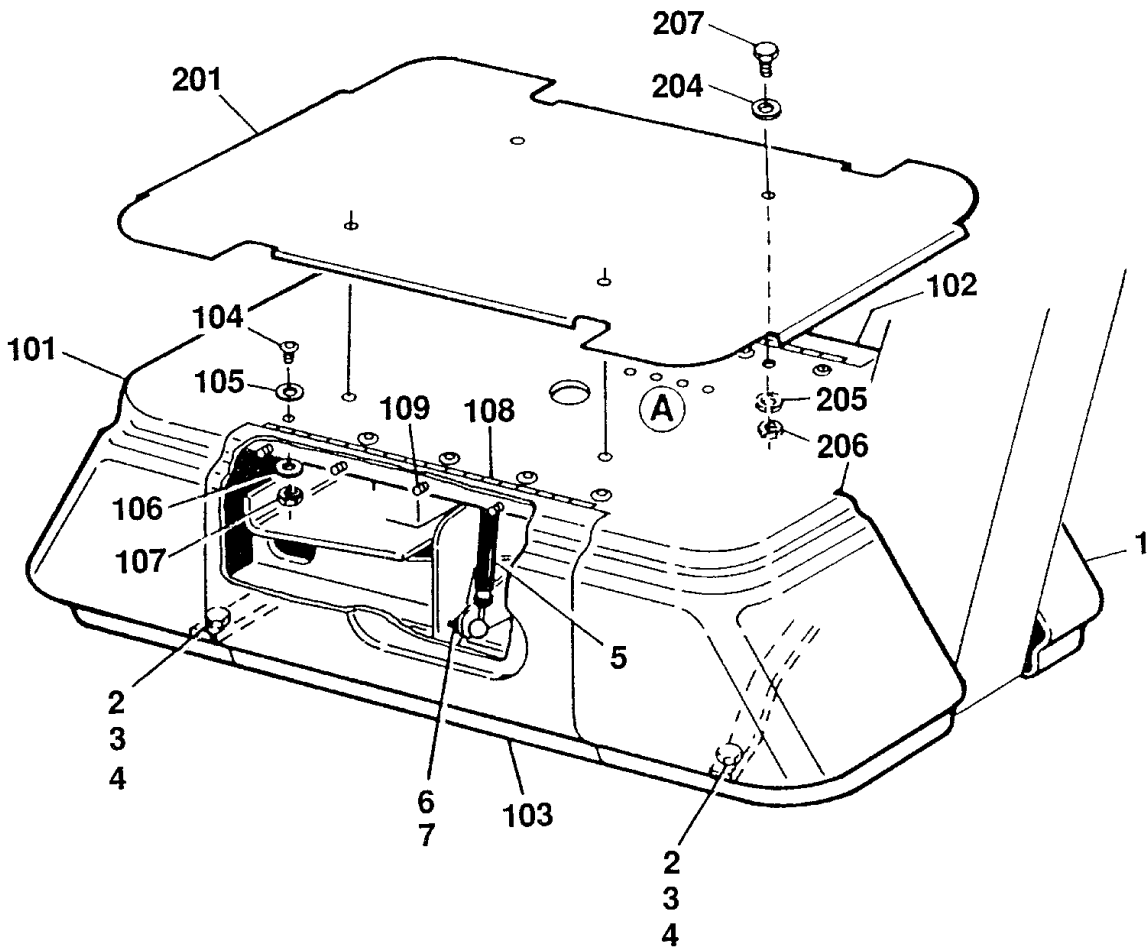
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FIGURE 2-12. TURNTABLE AND HOOD INSTALLATION - MODEL 30electric.



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FIGURE 2-12. TURNTABLE AND HOOD INSTALLATION - MODEL 30ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	4620086	TURNTABLE	1	
	0254743	HOODS INSTALLATION Note: Replacement Decals Must be Ordered Separately.	Ref. Ref	—
1	0254744	Hood Assembly (Includes Items 101-109)	1	
2	0641510	Bolt 5/16"-18NC x 1 1/4"	4	
3	4711500	Flatwasher 5/16" Narrow	8	
4	3311505	Locknut 5/16"-18NC	4	
5	4160117	Spring, Gas	2	
6	4761500	Lockwasher 5/16"	4	
7	3311501	Nut 5/16"-18NC	4	
	0254744	HOOD ASSEMBLY Note: Replacement Decals Must be Ordered Separately.	Ref. Ref	—
101	2680404	Hood	1	
102	2680413	Door (Ground Control Panel)	1	
103	2680405	Door (Manual Storage Panel)	1	
104	0630457	Bolt, Button	10	
105	4711400	Flatwasher 1/4" Narrow	20	
106	4751400	Flatwasher 1/4" Narrow	10	
107	3311401	Nut 1/4"-20NC	10	
108	2600192	Hinge, Door	2	
109	0630448	Bolt, Button	20	
	0252986	COVER INSTALLATION (OPTIONAL)	Ref.	2
201	4844182	Cover	1	
202	Not Used			
203	Not Used			
204	4711500	Flatwasher 5/16" Narrow	8	
205	4761500	Lockwasher 5/16"	4	
206	3311501	Nut 5/16"-18NC	4	
207	0641514	Bolt 5/16"-18NC x 1 3/4"	4	
	0254745	BEACON KIT (OPTIONAL)	Ref.	B
301	4060865	Guard, Strobe	1	
302	2920119	Light, Strobe (Amber) (Prior to S/N 28019)	1	
	2920146	Light, Strobe (Amber) (S/N 28019 to Present)	1	
	7016319	Bulb, Light	1	
		Amber Lens Options:	1	
	7016320	Lens - 3 1/8" Height		
	7016372	Lens - 4 1/8" Height		
303	4751000	Flatwasher #10	4	
304	Not Used			
305	0721008	Bolt #10-24NC x 1"	2	

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FIGURE 2-12. TURNTABLE AND HOOD INSTALLATION - MODEL 30ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
306	3311005	Locknut #10-24NC	2	

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FIGURE 2-12. TURNTABLE AND HOOD INSTALLATION - MODEL 30ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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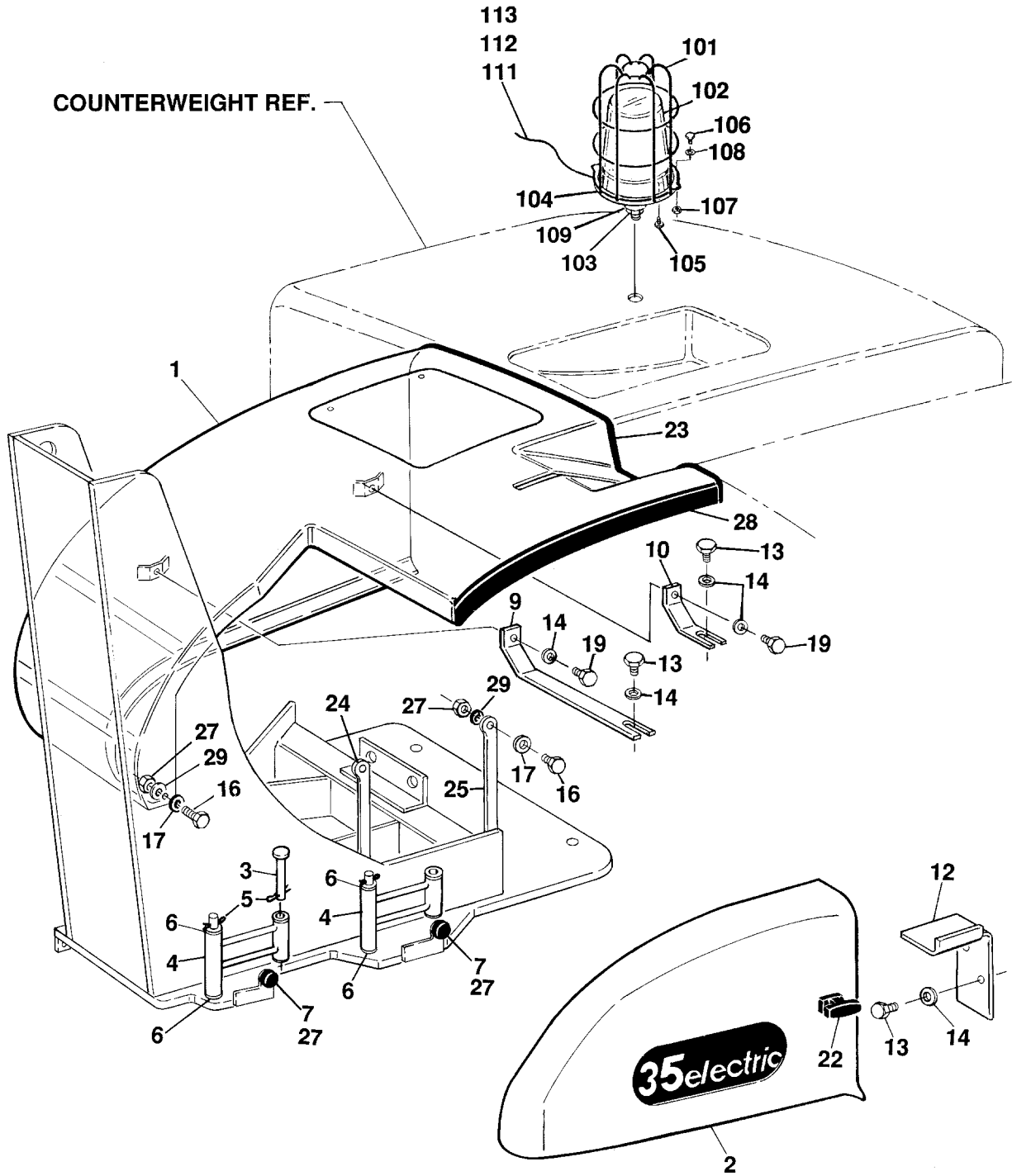
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FIGURE 2-13. TURNTABLE AND HOOD INSTALLATION - MODEL 35electric.

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FIGURE 2-13. TURNTABLE AND HOOD INSTALLATION - MODEL 35ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	4620101	TURNTABLE	1	
	0254698	HOODS INSTALLATION Note: Replacement Decals Must be Ordered Separately.	Ref. Ref	D
1	2680239	Hood - Left Side	1	
	7012624	Access Panel Assembly	1	
	7016353	Access Panel Fastener Kit	2	
2	2680240	Hood - Right Side	1	
3	3430840	Pin, Clevis	2	
4	0253687	Hinge	2	
5	3420156	Hairpin	4	
6	4711800	Flatwasher 1/2" Narrow	A/R	
7	0940049	Bumper	2	
8	Not Used			
9	0902045	Bracket	1	
10	0902044	Bracket	1	
11	Not Used			
12	0902046	Bracket	1	
13	0641608	Bolt 3/8"-16NC x 1"	6	
14	4751600	Flatwasher 3/8"	8	
15	Not Used			
16	0630476	Capscrew, Button Head	5	
17	4751500	Flatwasher 5/16"	5	
18	0100011	Loctite #242 (Not Shown)	A/R	
19	0641606	Bolt 3/8"-16NC x 3/4"	2	
20 to 21	Not Used			
22	2940071	Latch	1	
23	3960453	Seal	76 in./2m	
24	0902055	Bracket	1	
25	0902056	Bracket	1	
26	Not Used			
27	3311501	Nut 5/16"-18NC	9	
28	3960433	Seal	20"/51cm	
29	4761500	Lockwasher 5/16"	5	
		OPTIONAL STROBE LIGHT INSTALLATIONS		
	0254544	Prior to January 1995	Ref.	E
	0255611	January 1995 to Present	Ref.	3
101	4060865	Guard, Light	1	
102		Light, Strobe Options (Amber):	1	
	2920119	Light - Prior to S/N 28019		
	2920146	Light - S/N28019 to Present		
	7016319	Bulb, Light	1	
		Amber Lens Options:	1	
	7016320	Lens - 3 1/8" Height		
	7016372	Lens - 4 1/8" Height		

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FIGURE 2-13. TURNTABLE AND HOOD INSTALLATION - MODEL 35ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
103		Bolt, Special Options:	1	
	0630491	Prior to January 1995		
	0630474	January 1995 to Present		
104	3537903	Plate, Mounting	1	
105	0741606	Screw, Flathead 3/8"-16NC x 3/4"	1	
106	0721008	Bolt #10-24NC x 1"	2	
107	3311005	Locknut #10-24NC	2	
108	4751000	Flatwasher #10	4	
109		Spacer Options:		
	4220162	Prior to January 1995		
	4220111	January 1995 to Present		
110	0100011	Loctite #242	A/R	
111	4240032	Tie-Strap	1	
112	4460234	Clamp	1	
113	2820036	Loom (Not Shown)	16 in./41cm	

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FIGURE 2-13. TURNTABLE AND HOOD INSTALLATION - MODEL 35ELECTRIC. (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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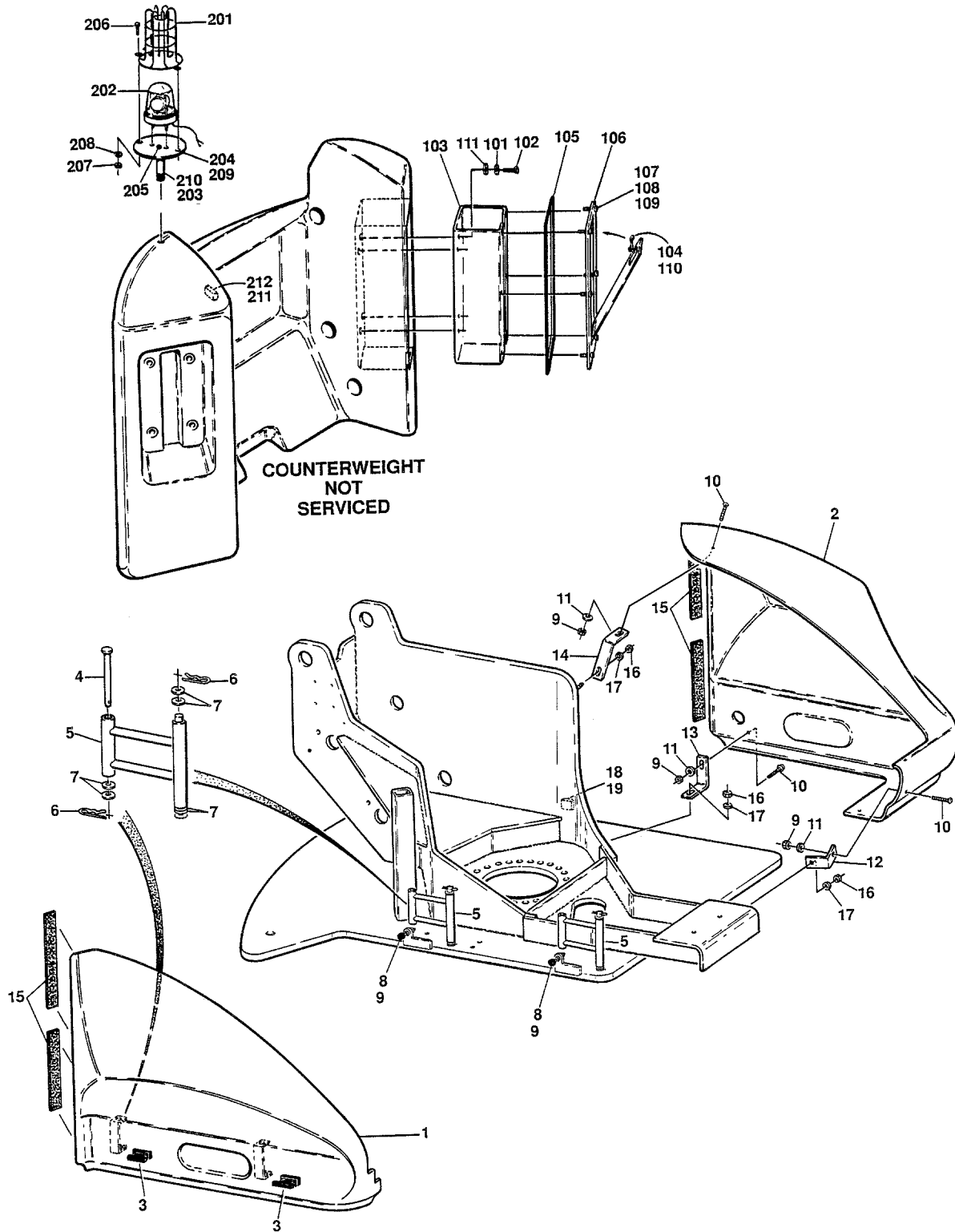
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FIGURE 2-14. TURNTABLE AND HOOD INSTALLATION - MODEL 40electric AND 45electric.

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FIGURE 2-14. TURNTABLE AND HOOD INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	4620088	TURNTABLE	1	
	0253709	HOODS INSTALLATION	Ref.	7
		Note: Replacement Decals Must be Ordered Separately.	Ref	
1		Hood (Left Side) Options:	1	
	2680410	Prior to S/N 48140		
	2680473	S/N 48140 to Present		
2		Hood (Right Side) Options:	1	
	2680411	Prior to S/N 48140		
	2680475	S/N 48140 to Present		
3	2940071	Latch	2	
4	3430840	Pin, Clevis	2	
5	0253687	Swing Hinge Assembly	2	
6	3420156	Hairpin	4	
7	4751800	Flatwasher 1/2"	A/R	
8	0940049	Bumper (Prior to S/N 48140)	2	
9	3311501	Nut 5/16"-18NC	3	
10	0630468	Screw, Button Head 5/16"-18NC x 1"	3	
11	4751500	Flatwasher 5/16"	5	
12	0901923	Bracket, Mounting - Right Front	1	
13	0901923	Bracket, Mounting - Right Side Bottom	1	
14	0901921	Bracket, Mounting - Right Side Top	1	
15	3960453	Seal, Door	5 Ft./1.6m	
16	3311601	Nut 3/8"-16NC	1	
17	4751600	Flatwasher 3/8"	1	
18	1320043	Clamp	1	
19	0641510	Bolt 5/16"-18NC x 1 1/4"	2	
20	4751400	Flatwasher 1/4"	1	
21	3311401	Nut 1/4"-20NC	1	
	0100011	Loctite (Not Shown)	A/R	
	0253984	STORAGE COMPARTMENT INSTALLATION	Ref.	B
101	4761600	Lockwasher 3/8"	4	
102	0641605	Bolt 3/8"-16NC x 5/8"	4	
103	3536691	Box, Storage	1	
104	2940042	Latch	1	
105	3960438	Seal	50 in./1.3m	
106	4844404	Door Front Weldment	1	
107	4740120	Washer, Nylon	6	
108	0630464	Screw, Button Head #10-24NC x 1/2"	6	
109	3300365	Retainer, Nut #10-24NC	6	
110	0100011	Loctite #242	A/R	
111	4751600	Flatwasher	4	

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FIGURE 2-14. TURNTABLE AND HOOD INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0254544	OPTIONAL STROBE LIGHT INSTALLATION	Ref.	7
201	4060865	Guard, Light	1	
202	2920119	Light, Strobe (Amber) (Prior to S/N 28019)	1	
	2920146	Light, Strobe (Amber) (S/N28019 to Present)	1	
	7016319	Bulb, Light	1	
		Amber Lens Options:	1	
	7016320	Lens - 3 1/8" Height		
	7016372	Lens - 4 1/8" Height		
203	0630491	Bolt, Special	1	
204	3537903	Plate, Mounting	1	
205	0741606	Screw, Flathead 3/8"-16NC x 3/4"	1	
206	0721008	Bolt #10-24NC x 1"	2	
207	3311005	Locknut #10-24NC	2	
208	4751000	Flatwasher #10	4	
209	4220162	Spacer	1	
210	0100011	Loctite #242	A/R	
211	4240032	Tie-Strap	1	
212	4460234	Clamp	1	
213	2820036	Loom (Not Shown)	A/R	

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SECTION 3 BOOM

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SECTION 3 BOOM

FIGURE 3-1. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0252318	BOOMS INSTALLATION	Ref.	C
1	0800750	Main/Upper Boom Assembly (Includes Items 101 and 102)	1	
2	0800749	Tower/Lower Boom Assembly (Includes Items 111)	1	
3	4844027	Main/Upper Level Link Assembly (Includes Item 121)	1	
4	4844026	Tower/Lower Level Link Assy (Includes Item 131)	1	
5	4844028	Upright Weldment	1	
6	0560995	Block, Bumper	1	
7	1682662	Lift Cylinder Assy (See Section 5 for Breakdown)	2	
8	3422006	Pin, Attach	1	
9	Not Used			
10	3421985	Pin, Attach	4	
11	3421986	Pin, Attach	5	
12	3841143	Pin, Keeper	10	
13	0641509	Bolt 5/16"-18NC x 1 1/2"	10	
14	3311505	Locknut 5/16"-18NC	10	
15	3020022	Grease, Bearing	A/R	
16	0641410	Bolt 1/4"-20NC x 1 1/4"	2	
17	4751400	Flatwasher 1/4"	2	
18	3311405	Locknut 1/4"-20NC	2	
19	3780183	O-Ring	18	
20	3780181	O-Ring	2	
	0800750	MAIN/UPPER BOOM ASSEMBLY	Ref.	
101	0961602	Bushing, Teflon	2	
102	0961608	Bushing, Teflon	2	
	0800749	TOWER/LOWER BOOM ASSEMBLY	Ref.	
111	0961602	Bushing, Teflon	4	
	4844027	MAIN/UPPER LEVEL LINK ASSEMBLY	Ref.	
121	0961608	Bushing, Teflon	4	
	4844026	TOWER/LOWER LEVEL LINK ASSEMBLY	Ref.	
131	0961602	Bushing, Teflon	4	

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**FIGURE 3-1. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 30ELECTRIC
(CONTINUED)**

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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		CLAMPS AND CABLE INSTALLATIONS		
	0254738	Prior to S/N 36544 w/o Numbered Colored Wire	Ref.	A
	0258226	S/N 36544 to Present w/ Numbered Colored Wire	Ref.	1/A
201		Harness - Main Boom Options (Not Shown - See Section 7 for Breakdown):	1	
	4921659	Prior to S/N 36544		
	4922061	S/N 36544 to Present		
202	0561157	Block, Clamp	1	
203	0561158	Block, Clamp	1	
204	0641414	Bolt 1/4"-20NC x 1 3/4"		
205	3311405	Locknut 1/4"-20NC	2	
206	0641410	Bolt 1/4"-20NC x 1 1/4"	2	
207	4761400	Lockwasher 1/4"	4	
208	4240099	Tie-Strap (Not Shown)	20	
209	4060804	Protector, Edge (3/16"-4.8mm)	18 in./ 25cm	
210	4060805	Protector, Edge (1/4"-6.4mm)	40 in./ 102cm	
211	4060807	Protector, Edge (3/8"-9.5mm)	29 in./ 73cm	
212	4751400	Flatwasher 1/4"	2	
213	3311401	Nut 1/4"-20NC	2	
	0252303	BOOM LIMIT SWITCHES INSTALLATION	Ref.	D
301	4360321	Switch, Limit	2	
302	3900168	Bolt, Special	4	
303	4751000	Flatwasher	4	
304	3311005	Locknut #10-24NC	4	
305	4920140	Wire, Safety	A/R	
306	4460428	Connector, Strain Relief	2	

SECTION 3 BOOM

FIGURE 3-1. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 30ELECTRIC
(CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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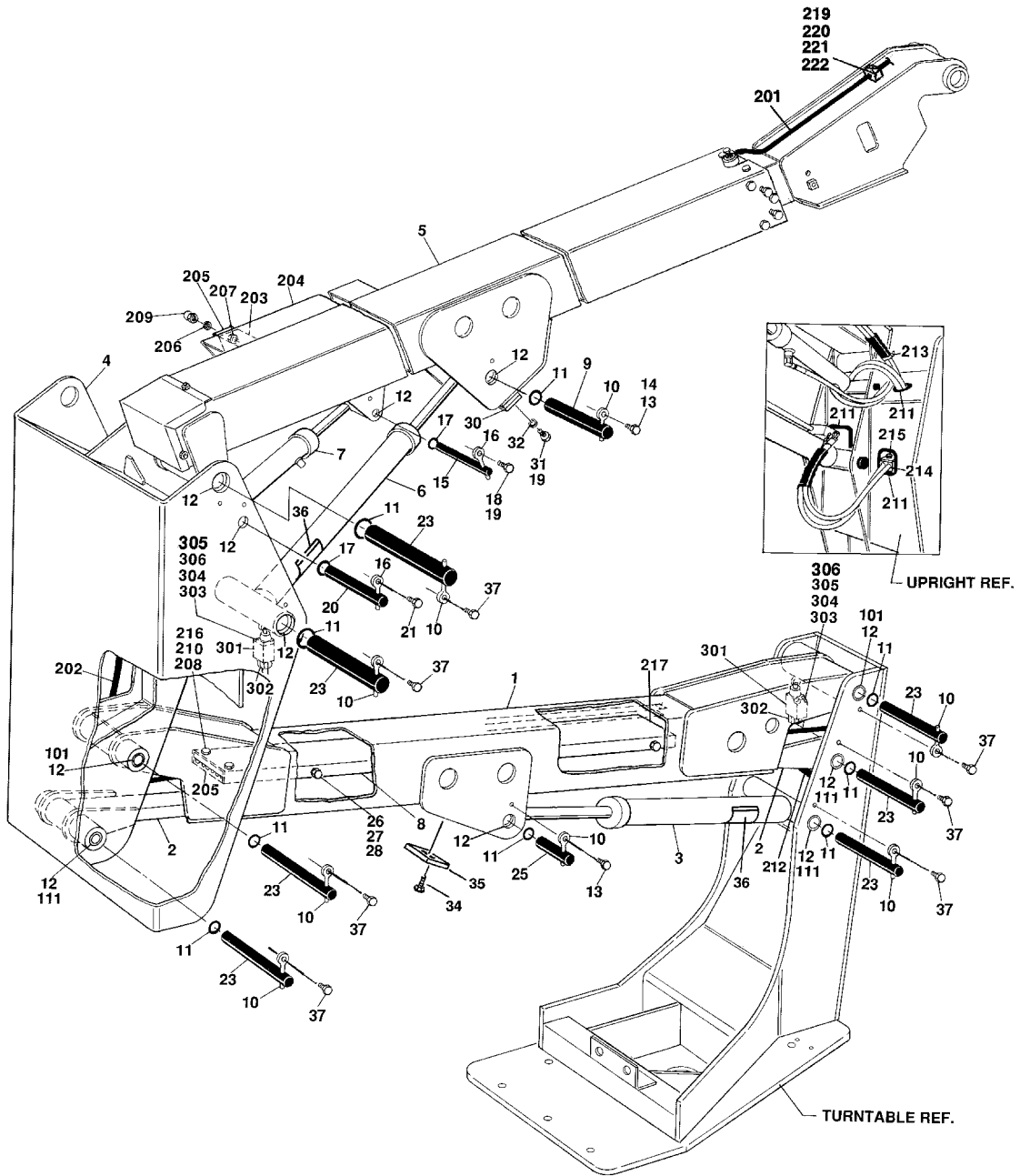
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SECTION 3 BOOM

FIGURE 3-2. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 35electric

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SECTION 3 BOOM

FIGURE 3-2. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 35ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0254190	BOOM INSTALLATION	Ref.	14
1		Lower Boom Weldment Options (Includes Item 101)	1	
	0800866	Prior to August 1994		
	0801007	August 1994 to Present	1	
2	4844576	Lower Link Weldment (Includes Item 111)	1	
3	1682980	Lower Lift Cylinder Assembly (See Section 5 for Breakdown)	1	
4	4844588	Upright Weldment	1	
5	0800832	Upper Boom Assembly (See Figure 3-5 for Breakdown)	1	
6		Upper Lift Cylinder Assembly Options (See Section 5 for Breakdown):	1	
	1682958	Prior to S/N 29899		
	1683509	S/N 29899 to Present	1	
7		Master Cylinder Assembly Options (See Section 5 for Breakdown)	1	
	1682877	Prior to January 1995		
	1683325	January 1995 to Present	1	
8	3537220	Plate, Cable	1	
9	3422178	Pin	1	
10	3841203	Keeper, Pin	9	
11	3780184	O-Ring	18	
12	3020022	Grease	A/R	
13	0641812	Bolt 1/2"-13NC x 1 1/2"	2	
14	3311805	Locknut 1/2"-13NC	2	
15	3422180	Pin	1	
16	3841143	Keeper, Pin	2	
17	3780181	O-Ring	4	
18	0641610	Bolt 3/8"-16NC x 1 1/4"	1	
19	3311605	Locknut 3/8"-16NC	3	
20	3422179	Pin	1	
21	0641608	Bolt 3/8"-16NC x 1"	1	
22	Not Used			
23	3422177	Pin	7	
24	Not Used			
25	3422176	Pin	1	
26	0641408	Bolt 1/4"-20NC x 1"	4	
27	4751400	Flatwasher 1/4"	4	
28	3311405	Locknut 1/4"-20NC	4	
29	Not Used			
30	0561076	Block, Boom Rest	1	
31	0641614	Bolt 3/8"-16NC x 1 3/4"	2	
32	4751600	Flatwasher 3/8"	4	
33	0100011	Loctite #242 (Not Shown)	A/R	
34	0641606	Bolt 3/8"-16NC x 3/4"	2	
35	0561173	Block, Boom Rest	1	
36	1701714	Decal - Manual Descent (Prior to S/N 32126 Only)	1	
37	0641808	Bolt 1/2"-13NC x 1"	7	

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FIGURE 3-2. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 35ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		LOWER BOOM WELDMENTS		
	0800866	Prior to August 1994	Ref.	—
	0801007	August 1994 to Present	Ref.	B/2
101	0961726	Bushing, Teflon	4	
	4844576	LOWER LINK WELDMENT	Ref.	—
111	0961726	Bushing, Teflon	4	
		CABLES AND CLAMPS INSTALLATIONS		
	0254595	Prior to S/N 36648 w/o Numbered Colored Wire	Ref.	D
	0258565	S/N 36648 to Present w/ Numbered Colored Wire	Ref.	1
201		Harness - Upper Boom Options (See Section 7 for Breakdown):	1	
	4921644	Prior to S/N 36648		
	4922128	S/N 36648 to Present		
202	4921650	Harness-Lower Boom (See Section 7 for Breakdown)	1	
203	0561090	Clamp, Block	2	
204	3536999	Cover	1	
205	1320205	Clamp	2	
206	4751400	Flatwasher 1/4"	12	
207	3311401	Nut 1/4"-20NC	6	
208	3311505	Locknut 5/16"-18NC	2	
209	3300151	Nut, Acorn 1/4"-20NC	6	
210	0641514	Bolt 5/16"-18NC x 1 3/4"	2	
211	4060805	Trim 1/4"	6ft/1.8m	
212	4060808	Trim 1/2"	10in/25cm	
213	4240099	Tie-Strap	26	
214	1320159	Clamp	1	
215	0641511	Bolt 5/16"-18NC x 1 3/8"	1	
216	4751500	Flatwasher 5/16"	4	
217	4060803	Trim 1/16"-1/8"	6in/15cm	
218	0100011	Loctite #242 (Not Shown)	A/R	
219	1320195	Cover, Clamp	1	
220	1320199	Clamp	1	
221	0641520	Bolt 5/16"-18NC x 2 1/2"	1	
222	3311505	Locknut 5/16"-18NC	1	
	0254815	BOOM LIMIT SWITCHES INSTALLATION	Ref.	A
301	4360321	Switch, Limit	2	
302	4460428	Connector, Strain Relief	2	
303	3311005	Locknut #10-24NC	4	
304	4751000	Flatwasher #10	4	
305	3900168	Bolt #10-24NC x 1 1/2"	2	
306	1060341	Cable, Electrical	34ft/ 10.4m	

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FIGURE 3-2. BOOMS AND LIMIT SWITCHES INSTALLATION MODEL 35ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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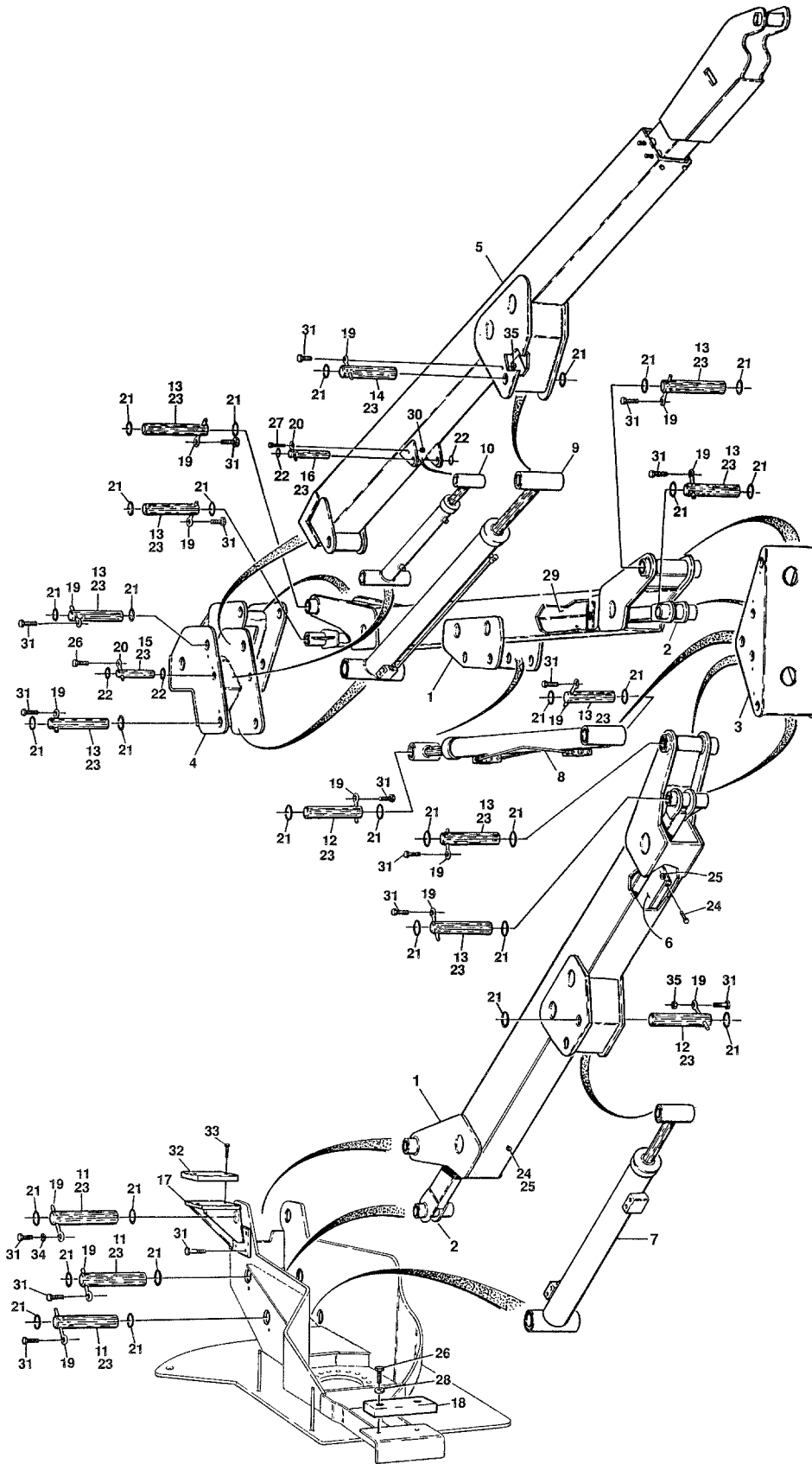
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FIGURE 3-3. BOOMS INSTALLATION - MODELS 40electric AND 45electric

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FIGURE 3-3. BOOMS INSTALLATION - MODELS 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		BOOMS INSTALLATION (STANDARD PARTS)		
	0253455	40electric	Ref.	13
	0254040	45electric	Ref.	8
1		Tower Boom Weldment Options:	2	
	0800831	40electric		
	0800852	45electric		
	0961726	Bushing, Teflon (4 Per Assembly)	8	
2		Link, Level Options (Base and Mid):	2	
	4844302	40electric		
	4844541	45electric		
	0961726	Bushing, Teflon (4 Per Assembly)	8	
3		Upright Weldment Options (Bottom):	1	
	4844303	40electric		
	4844427	45electric		
4	4844304	Upright Weldment (Top)	1	
5		Upper Boom Assembly Options (See Figure 3-5 for Breakdown):	1	
	0800832	40electric		
	0800853	45electric		
6		Plate, Hose Guard Options:	1	
	3536491	40electric		
	3537045	45electric		
7		Cylinder Assembly - Lower Lift Options (See Section 5 for Breakdown)	1	
	1682855	40electric Prior to S/N 33111		
	1683518	40electric S/N 33111 to Present		
	1683013	45electric Prior to S/N 33090		
	1683521	45electric S/N 33090 to Present		
8		Cylinder Assembly - Mid Lift Options (See Section 5 for Breakdown):	1	
	1682861	40electric Prior to S/N 33111		
	1683519	40electric S/N 33111 to Present		
	1683018	45electric Prior to S/N 33090		
	1683522	45electric S/N 33090 to Present		
9		Cylinder Assembly Options - Upper Lift (See Section 5 for Breakdown)	1	
	1682867	Prior to March 1995		
	1683337	March 1995 to S/N 29899		
	1683506	S/N 29899 to S/N 33090		
	1683520	S/N 33090 to Present		
10		Cylinder Assembly Options - Master (See Section 5 for Breakdown)	1	
	1682877	Prior to January 1995		
	1683325	January 1995 to Present		
11	3422175	Pin, Pivot	3	
12	3422176	Pin, Pivot	2	
13	3422177	Pin, Pivot	9	
14	3422178	Pin, Pivot	1	
15	3422179	Pin, Pivot	1	

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FIGURE 3-3. BOOMS INSTALLATION - MODELS 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
16	3422180	Pin, Pivot	1	
17	4844467	Boom Rest Weldment	1	
18	0561076	Block, Boom Rest	1	
19	3841203	Keeper, Pin - 1/2"	15	
20	3841143	Keeper, Pin - 3/8"	2	
21	3780184	O-Ring - 2"	30	
22	3780181	O-Ring - 1"	4	
23	3020022	Grease	A/R	
24	0641506	Bolt 5/16"-18NC x 3/4"	4	
25	3311505	Locknut 5/16"-18NC	4	
26	0641608	Bolt 3/8"-16NC x 1"	3	
27	0641610	Bolt 3/8"-16NC x 1 1/4"	1	
28	4751600	Flatwasher 3/8"	2	
29		Tube Options:	1	
	4566427	40electric		
	4566356	45electric		
30	3311605	Locknut 3/8"-16NC	1	
31	0641812	Bolt 1/2"-13NC x 1 1/2"	6	
32	0940048	Bumper	1	
33	0641806	Bolt 1/2"-13NC x 3/4"	2	
34	0641810	Bolt 1/2"-13NC x 1 1/4"	12	
35	3311805	Locknut 1/2"-13NC	3	

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FIGURE 3-3. BOOMS INSTALLATION - MODELS 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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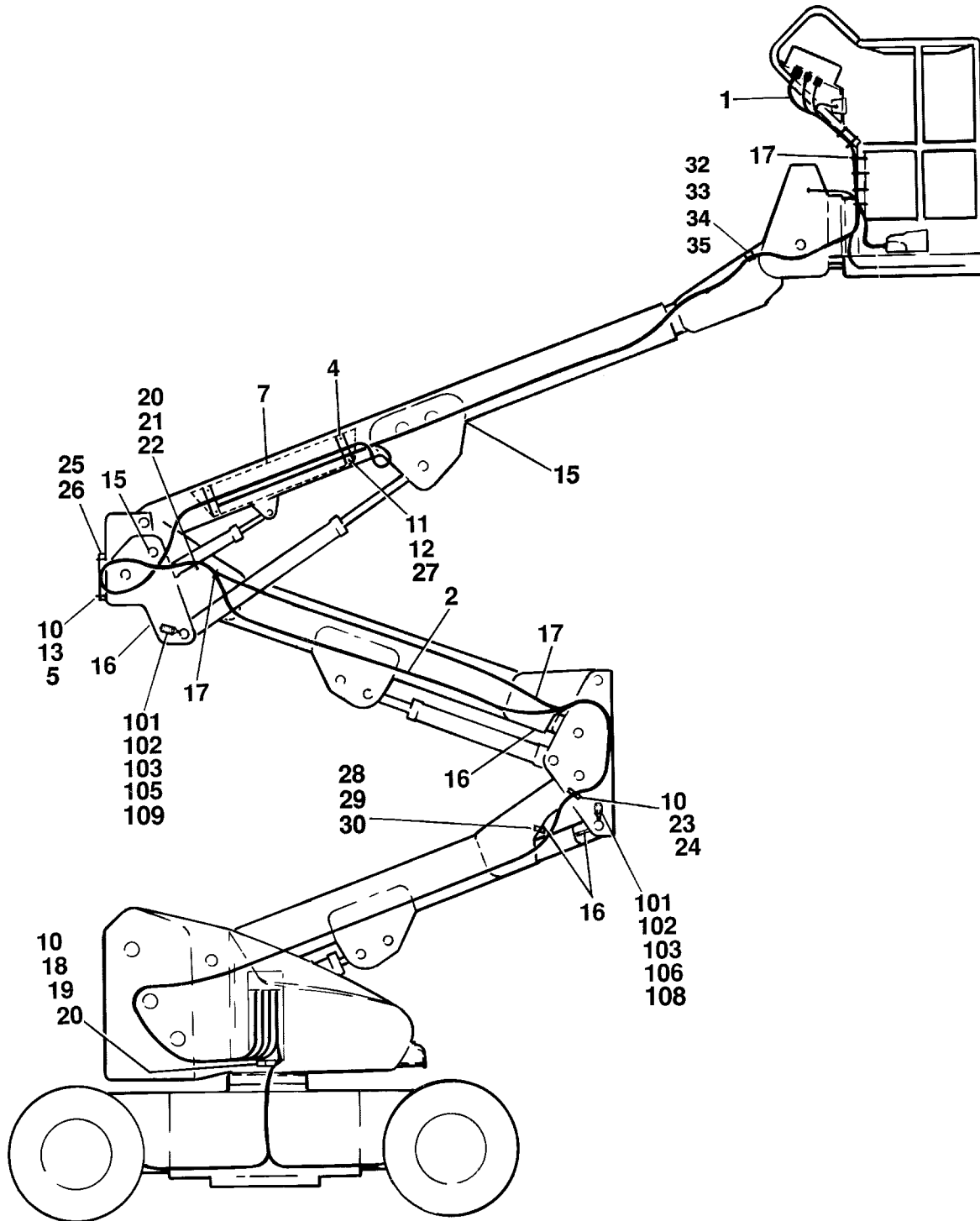
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FIGURE 3-4. LIMIT SWITCHES, CABLES AND CLAMPS INSTALLATION - MODEL 40electric AND 45electric

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FIGURE 3-4. LIMIT SWITCHES, CABLES AND CLAMPS INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		CLAMPS AND CABLES INSTALLATIONS		
	0254647	40electric Prior to S/N 36648 without Numbered Colored Wire	Ref.	6
	0258563	40electric S/N 36648 to Present with Numbered Colored Wire	Ref.	1
	0254041	45electric Prior to S/N 36648 without Numbered Colored Wire	Ref.	7
	0258564	45electric S/N 36648 to Present with Numbered Colored Wire	Ref.	1
1		Harness Assembly - Upper Boom Options (See Section 7 for Breakdown):	1	
	4921644	40electric Prior to S/N 36648		
	4922128	40electric S/N 36648 to Present		
	4921645	45electric Prior to S/N 36648		
	4922127	45electric S/N 36648 to Present		
2		Harness Assembly - Tower Boom Options (See Section 7 for Breakdown):	1	
	4921581	40electric		
	4921591	45electric		
3	Not Used			
4	0561090	Block, Hose Clamp	2	
5	0561091	Block, Hose Clamp	1	
6	Not Used			
7	3536999	Shield	1	
8 to 9	Not Used			
10	4751500	Flatwasher 5/16"	5	
11	4751400	Flatwasher 1/4"	12	
12	3311401	Nut 1/4"-20NC	6	
13	0641514	Bolt 5/16"-18NC x 1 3/4"	3	
14	Not Used			
15		Trim Options:	3.6ft/1.1m	
	Use 4060807	40electric (was p/n 4060805)		
	4060805	45electric		
16	4060808	Trim 1/2"	8ft/2.4m	
17	4240099	Tie-Strap	26	
18 to 19	Not Used			
20	3311505	Locknut 5/16"-18NC	1	
21	4566243	Roller	1	
22	0641560	Bolt 5/16"-18NC x 7 1/2"	1	
23	0641512	Bolt 5/16"-18NC x 1 1/2"	1	
24	1320205	Clamp, Hose	1	
25	1670697	Cover, Hose	1	
26	0630467	Capscrew, Button 5/16"-18NC x 1/2"	4	
27	3300151	Nut, Acorn 1/4" - 20NC	6	
28	1320040	Clamp, Cable	1	
29	0641410	Bolt 1/4"-20NC x 1 1/4"	1	
30	3311405	Locknut 1/4"-20NC	1	
31	0100011	Loctite #242 (Not Shown)	A/R	

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FIGURE 3-4. LIMIT SWITCHES, CABLES AND CLAMPS INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
32	1320195	Cover, Clamp	1	
33	1320199	Clamp	1	
34	0641520	Bolt 5/16"-18NC x 2 1/2"	1	
35	3311505	Locknut 5/16"-18NC	1	
BOOM LIMIT SWITCHES INSTALLATIONS (40ELECTRIC)				
	0253704	40electric	Ref.	5
	0254875	45electric	Ref.	4
101	4360321	Switch, Limit	2	
102	4460428	Connector, Strain Relief	2	
103	3311005	Locknut #10-24NC	4	
104	Not Used			
105		Bolt, Socket Head Options:#10-24NC x 1 1/2"	2	
	3900168	Prior to S/N 33795 (#10-24NC x 1 1/2")	2	
	3900246	S/N 33795 to Present (#10-24NC x 1 3/4")	2	
106		Bolt, Socket Head Options:	2	
	3900097	Prior to S/N 33795 (#10-24NC x 2 1/8")	2	
	3900104	S/N 33795 to Present (#10-24NC x 2 1/4")	2	
107	1060341	Cable, Electrical - 16/2	A/R	
		40electric	48ft/17.7m	
		45electric	58ft/15m	
108	1670832	Cover, Switch Lower (S/N 33795 to Present Only)	1	
109	1670833	Cover, Switch Upper (S/N 33795 to Present Only)	1	

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FIGURE 3-4. LIMIT SWITCHES, CABLES AND CLAMPS INSTALLATION - MODEL 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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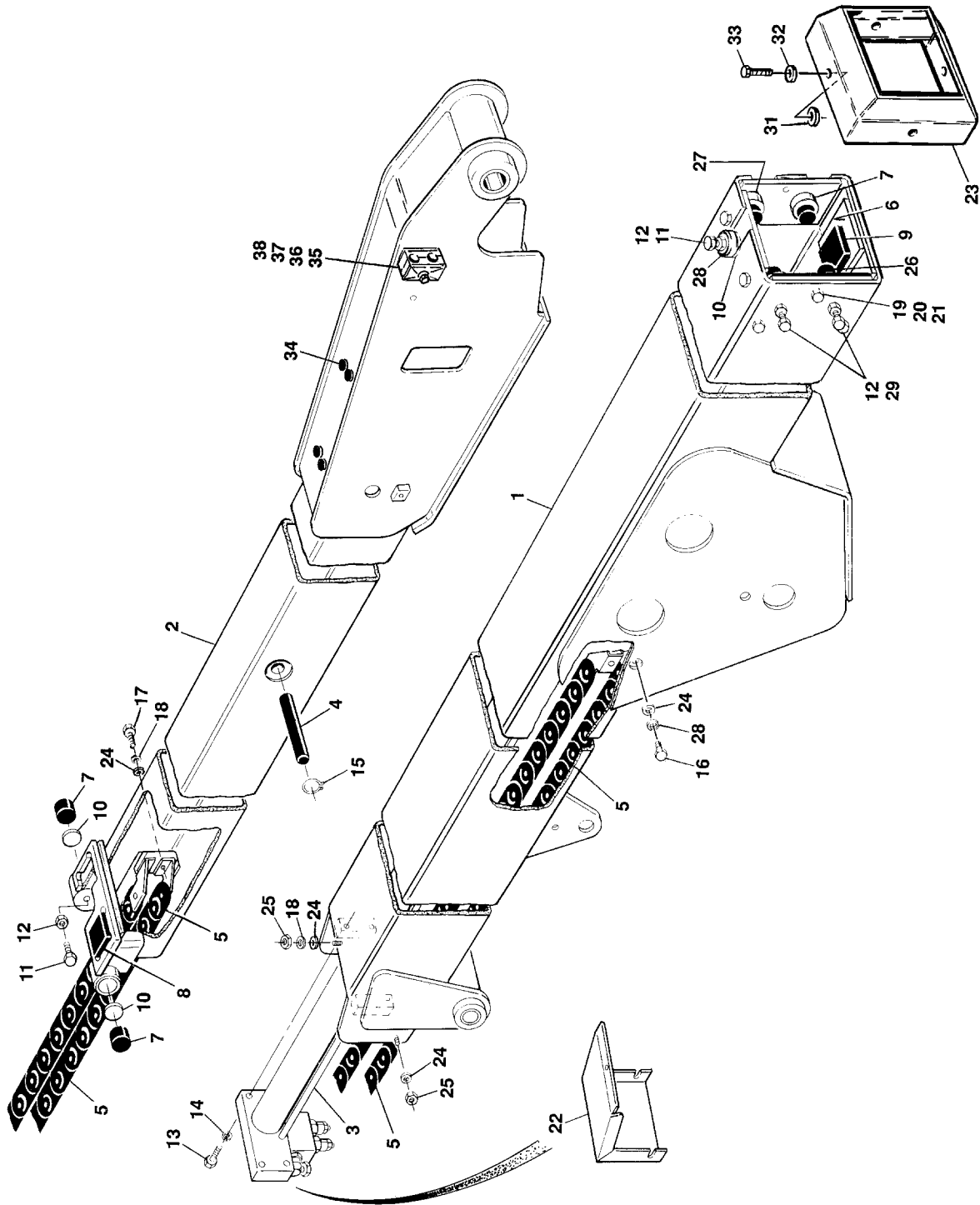
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FIGURE 3-5. UPPER BOOM COMPONENTS ASSEMBLY - MODELS 35electric, 40electric AND 45electric

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FIGURE 3-5. UPPER BOOM COMPONENTS ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		UPPER BOOM ASSEMBLIES	.	
	0800832	35electric	Ref.	18/P
	0800832	40electric	Ref.	18/P
	0800853	45electric	Ref.	13/J
1		Base Weldment Options:	1	
	0800833	35electric and 40electric		
	0800854	45electric		
	0961726	Bushing, Teflon	2	
2		Fly Weldment Options:	1	
	0800834	35electric and 40electric		
	0800855	45electric		
	0961726	Bushing, Teflon	2	
3		Telescope Cylinder Assembly Options (See Section 5 for Breakdown):	1	
	1682887	35electric and 40electric		
	1682947	45electric		
4		Pin, Mounting Options:	1	
	3422185	35electric and 40electric		
	3422263	45electric (Prior to February 1995)		
	3422185	45electric (February 1995 to S/N 57117)		
	3422901	45electric (S/N 57117 to Present)		
5		Powertrack	1	
	7019698	Links, Replacement	40	
	7019699	Bracket, End	1	
6	4844579	Holder, Wear Pad (Base Front Bottom)	1	
7	3340663	Pad, Wear (Base Front Top & Sides/Fly Rear Sides & Bottom)	8	
8		Pad, Wear Options (Fly Rear Top):	2	
	3340666	Prior to S/N 31965	2	
	3340820	S/N 31965 to Present	2	
9	3340682	Pad, Wear (Base Front Bottom)	1	
10	1760160	Disc	8	
11	0630487	Bolt, Special	6	
12	3311602	Nut, Jam 3/8"-16NC	8	
13	0641818	Bolt 1/2"-13NC x 2 1/4"	4	
14	4761800	Lockwasher 1/2"	4	
15	3760115	Ring, Retaining	2	
16	0641405	Bolt 1/4"-20NC x 5/8"	2	
17	0641404	Bolt 1/4"-20NC x 1/2"	2	
18	4761400	Lockwasher 1/4"	7	
19	0641606	Bolt 3/8"-16NC x 3/4"	7	
20	4761600	Lockwasher 3/8"	7	
21	0100011	Loctite #242	A/R	
22	1670678	Cover, Boom	1	
23	1670698	Cover, Boom	1	
24	4751400	Flatwasher 1/4"	7	
25	3311401	Nut 1/4"-20NC	3	

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FIGURE 3-5. UPPER BOOM COMPONENTS ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
26		Holder, Wear Pad Options (Base Front Left Side):	1	
	Use 1220038	Prior to S/N 35014 (was p/n 4844383)	2	
	1220038	S/N 35014 to Present	2	
27		Holder, Wear Pad Options (Base Front Right Side):	1	
	Use 1220039	Prior to S/N 35014 (was p/n 4844384)	2	
	1220039	S/N 35014 to Present	2	
28		Holder, Wear Pad Options (Base Front Top):	1	
	Use 1220040	Prior to S/N 35014 (was p/n 4844386)	2	
	1220040	S/N 35014 to Present	2	
29	0630399	Bolt 3/8"-16NC x 2 1/4"	2	
30	0100009	Silicone (Not Shown)	A/R	
31	4740413	Spacer	5	
32	4751600	Flatwasher 3/8"	5	
33	0641608	Bolt 3/8"-16NC x 1"	5	
34	3520034	Plug, Hole	4	
35	1320195	Cover, Clamp (March 1995 to Present Only)	1	
36	1320199	Clamp (March 1995 to Present Only)	1	
37	0641520	Bolt 5/16"-18NC x 2 1/4" (March 1995 to Present Only)	1	
38	3311505	Locknut 5/16"-18NC (March 1995 to Present Only)	1	

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4-5	Control Assembly (Drive/Steer).	4-18

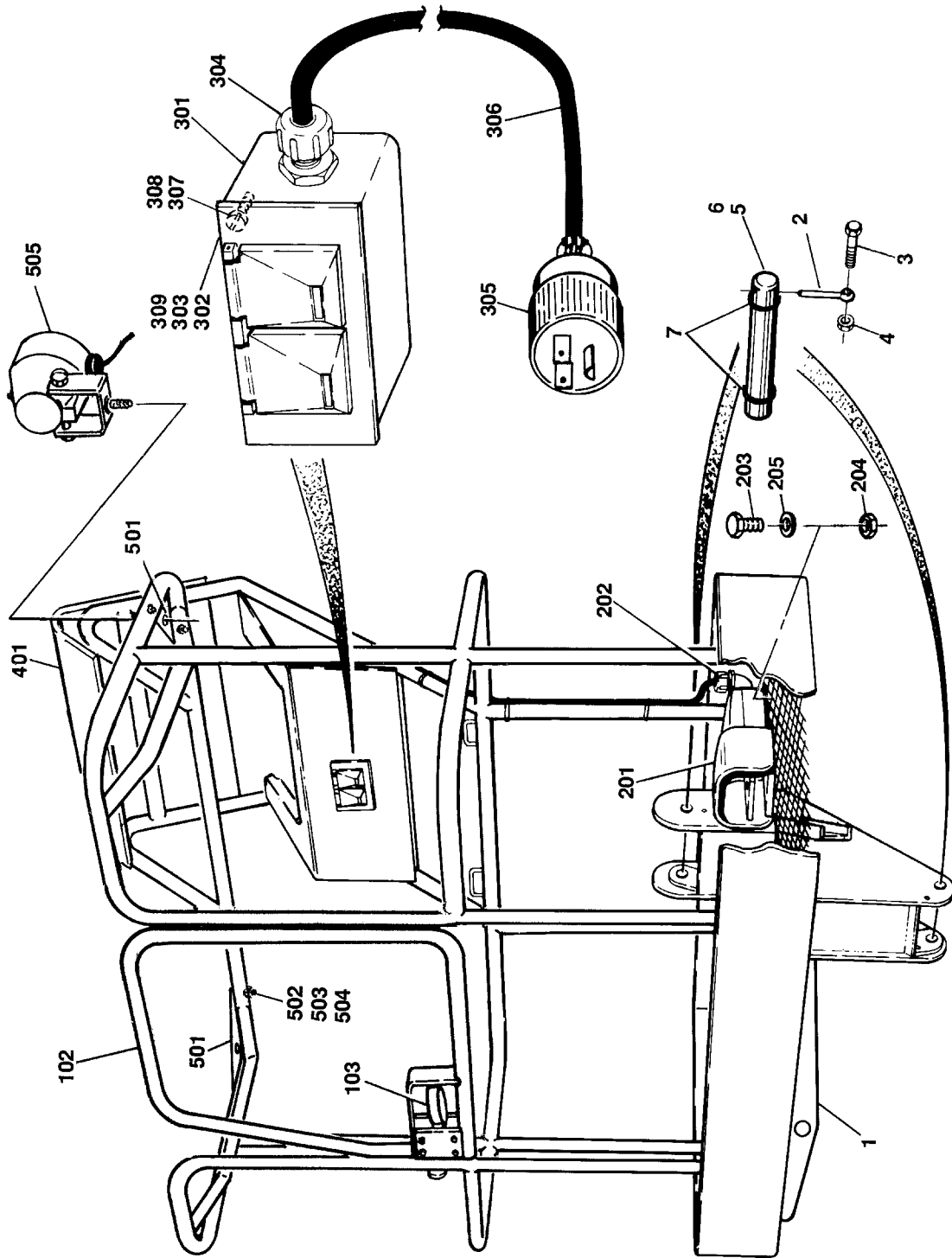
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FIGURE 4-1. PLATFORM AND COMPONENTS INSTALLATION - MODEL 30electric



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FIGURE 4-1. PLATFORM AND COMPONENTS INSTALLATION - MODEL 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		PLATFORM INSTALLATIONS		
	0254645	Platform with Lift Gate	Ref.	A
	0254646	Platform with Swing Gate	Ref.	2
		Note: Replacement Decals Must be Ordered Separately.	Ref	
1		Platform Assembly Options:	1	
	3510458	Platform with Lift Gate (Prior to May 1995) (Not Shown)		
	3510502	Platform with Lift Gate (May 1995 to Present) (Not Shown)		
	3510459	Platform with Swing Gate (Prior to May 1995)		
	3510503	Platform with Swing Gate (May 1995 to S/N 33712)		
	3510599	Platform with Swing Gate (S/N 33712 to Present)		
2	3841143	Pin, Keeper	2	
3	0641509	Bolt 5/16"-18NC x 1 1/8"	2	
4	3311505	Locknut 5/16"-18NC	2	
5	3421983	Pin, Attach	2	
6	3020022	Grease, Bearing	A/R	
7	3780181	O-Ring	4	
		PLATFORM ASSEMBLY COMPONENTS	Ref.	
101	Not Used			
102		Swing Gate Assemblies Options:	1	
	1780265	Swing Gate Assembly (Prior to S/N 33712)		
	1780299	Swing Gate Assembly (S/N 33712 to Present)		
	4844102	Lift Gate Assembly (Not Shown)		
103	2940006	Latch	1	
	2560010	Handle	1	
	0252408	FOOTSWITCH INSTALLATION	Ref.	5
201	4360031	Footswitch Assembly	1	
	7000625	Block, Contact	2	
	3252347	Decal	1	
		Note: Decal for other languages see Section 10		
202		Connector, Strain Relief Options:	1	
	4460422	Connector, Strain Relief - 90° (Prior to S/N 42965)	1	
	4460071	Connector, Strain Relief - Straight (S/N 42965 to Present)	1	
203	0641408	Bolt 1/4"-20NC x 1"	3	
204	3311405	Locknut 1/4"-20NC	3	
205	4751400	Flatwasher 1/4"	3	
206	Not Used			
207	4060803	Flex-Trim (Not Shown)	2 in./5cm	

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FIGURE 4-1. PLATFORM AND COMPONENTS INSTALLATION - MODEL 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0252358	OPTIONAL 110VAC RECEPTACLE INSTALLATION	Ref.	F
301	0860038	Box, Switch	1	
302	4460347	Receptacle, Electrical	1	
303	4060092	Shield, Cover	1	
304	4460071	Connector, Strain Relief	1	
305	4460205	Plug, Electrical	1	
306	1060330	Cable, Electrical 16/3	40 ft./ 12.2m	
307	3910606	Screw, Machine #6-32NC x 3/8"	4	
308	4760600	Lockwasher #6	4	
309	3960422	Gasket, Shield	1	
		OPTIONAL CONSOLE COVER KITS		
	2901213	Standard Machines	Ref.	—
	0254955	U/L Machines	Ref.	A
401		Cover, Console Options:	1	
	1670636	Standard Machines		
	1670732	U/L Machines		
	1020005	Button, Tear Away Mount	2	
	1670688	Cover, Tear Away	1	
		OPTIONAL WORK LIGHTS KITS		
	2901251	Prior to S/N 36544	Ref.	E
	2901561	S/N 36544 to Present	Ref.	2
501	3536089	Plate, Mounting	2	
502	0641414	Bolt 1/4"-20NC x 1 3/4"	4	
503	3311405	Locknut 1/4"-20NC	4	
504	4711400	Flatwasher 1/4" Narrow	4	
505	2920095	Light Assembly	2	
	7016356	Bulb, Replacement (1 per Light)	2	
506	4240099	Tie-Strap (Not Shown)	10	
507 to 510	Not Used			
511		Connector, Strain Relief Options (Not Shown - Located at Console Box):	1	
	4460598	Prior to S/N 28755		
	4460428	S/N 28755 to Present		

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FIGURE 4-1. PLATFORM AND COMPONENTS INSTALLATION - MODEL 30ELECTRIC

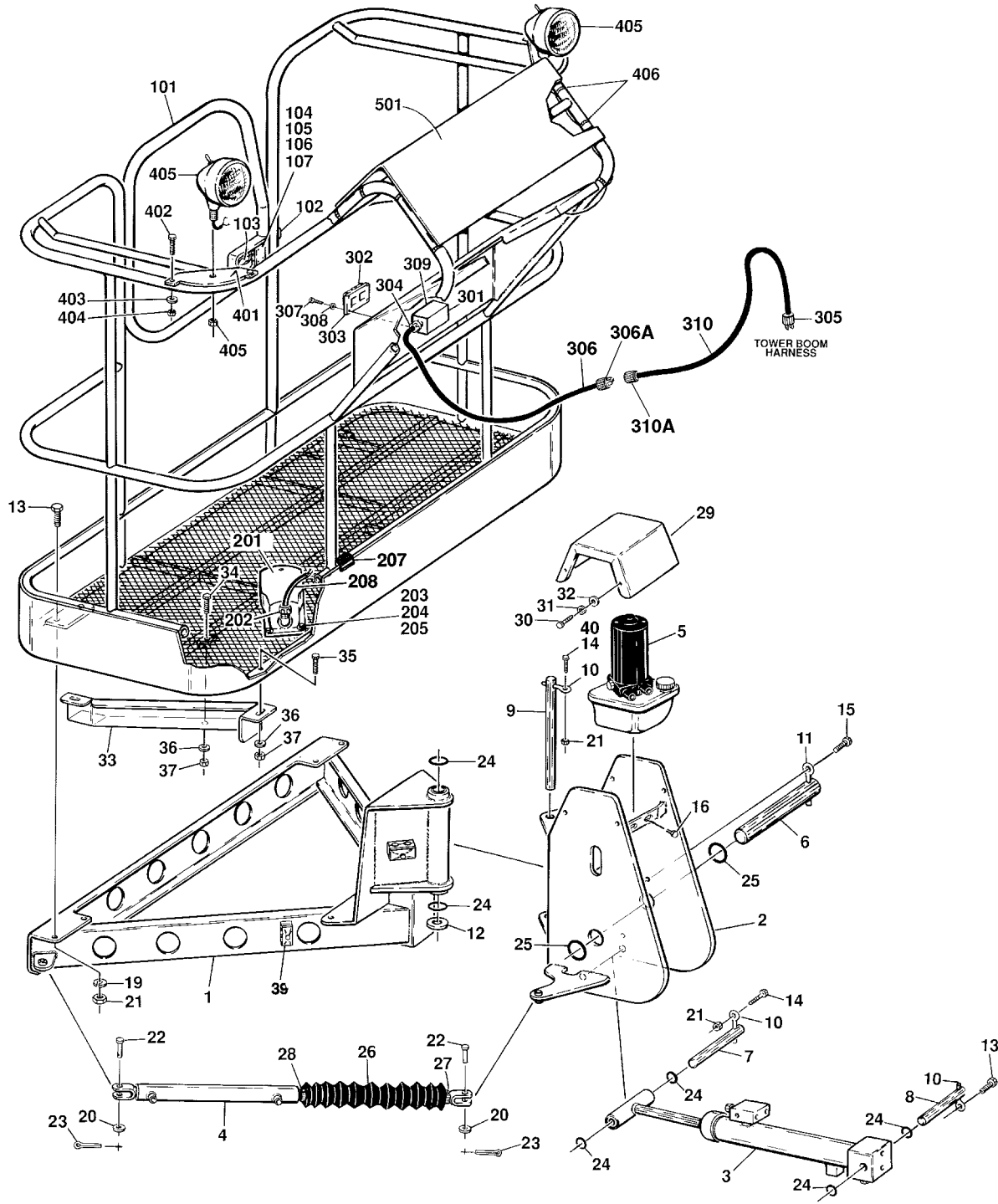
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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FIGURE 4-2. PLATFORM AND COMPONENTS INSTALLATION - MODEL 35electric, 40electric AND 45electric

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FIGURE 4-2. PLATFORM AND COMPONENTS INSTALLATION - MODEL 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0253698	ROTATOR AND SUPPORT INSTALLATION	Ref.	M
1	4844465	Support Weldment	1	
	0961608	Bushing, Bronze (Platform Pivot)	2	
	0961749	Bushing, Bronze (Rotator Cylinder Pivot)	2	
	1320050	Clamp, Hose	2	
2	4844466	Pivot Weldment	1	
	0961749	Bushing, Bronze (Rotator Cylinder Pivot)	2	
3		Slave Cylinder Assembly Options (See Section 5 for Breakdown)	1	
	1682876	Prior to January 1995		
	1683285	January 1995 to Present		
4	1682930	Rotator Cylinder Assembly (See Section 5 for Breakdown)	1	
5	3600207	Rotator Pump, Motor and Tank Assembly (See Figure 4-3 for Breakdown)	1	
6	3422176	Pin, Pivot	1	
7	3422180	Pin, Pivot	1	
8	3422181	Pin, Pivot	1	
9	3422191	Pin, Pivot	1	
10	3841143	Pin, Keeper	3	
11	3841203	Pin, Keeper	1	
12	4740007	Washer, Thrust	1	
13	0641607	Bolt 3/8"-16NC x 7/8"	8	
14	0641608	Bolt 3/8"-16NC x 1"	1	
15	0641810	Bolt 1/2"-13NC x 1 1/4"	1	
16	0641605	Bolt 3/8"-16NC x 5/8"	2	
17	Not Used			
18	Not Used			
19	4751600	Flatwasher 3/8"	9	
20	4751800	Flatwasher 1/2"	2	
21	3311605	Locknut 3/8"-16NC	9	
22	3430816	Pin, Clevis 1/2" x 2"	2	
23	3450405	Pin, Cotter	2	
24	3780181	O-Ring	6	
25	3780184	O-Ring	2	
26	0460106	Bellows	1	
27	1320017	Clamp, Hose	1	
28	1320031	Clamp, Hose	1	
29	1670690	Cover, Motor	1	
30	3941405	Screw, Self-Tapping 1/4" x 5/8"	4	
31	4751400	Flatwasher 1/4"	4	
32	4761400	Lockwasher 1/4"	4	
33	4060855	Shield	1	
34	0641505	Bolt 5/16"-18NC x 5/8"	1	
35	0641516	Bolt 5/16"-18NC x 2"	2	
36	4751500	Flatwasher 5/16"	6	
37	3311505	Locknut 5/16"-18NC	3	

SECTION 4 PLATFORMS

FIGURE 4-2. PLATFORM AND COMPONENTS INSTALLATION - MODEL 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
38	0100011	Loctite #242 (Not Shown)	A/R	
39	1320159	Clamp, Hose	1	
40	0641610	Bolt 3/8"-16NC x 1 1/4"	1	
		PLATFORM WELDMENTS		
	3510434	26" x 48" (Prior to May 1995)	Ref.	—
	3510504	26" x 48" (May 1995 to S/N 33712)	Ref.	A
	3510596	26" x 48" (S/N 33712 to Present)	Ref.	B/2
	3510600	26" x 48" (With Mesh to Top Rail) (S/N 32838 to S/N 33712)	Ref.	1
	3510601	26" x 48" (With Mesh to Top Rail) (S/N 33712 to Present)	Ref.	C/2
	3510460	26" x 60" (Prior to May 1995)	Ref.	—
	3510498	26" x 60" (May 1995 to S/N 33712)	Ref.	A
	3510584	26" x 60" (S/N 33712 to Present)	Ref.	A/1
	3510507	26" x 60" (With Mesh to Top Rail) (Prior To May 1995)	Ref.	—
	3510513	26" x 60: (With Mesh to Top Rail) (May 1995 to S/N 33712)	Ref.	A
	3510598	26" x 60: (With Mesh to Top Rail) (S/N 33712 to Present)	Ref.	A/3
		Note: Replacement Decals Must be Ordered Separately.	Ref	
101		Door Weldment Options (Includes Items 102-107):	1	
	1780265	Without Mesh Prior to S/N 33712		
	1780299	Without Mesh S/N 33712 to Present		
	1780289	With Mesh to Top Rail Prior to S/N 33712		
	1780300	With Mesh to Top Rail S/N 33712 to Present		
102		Latch, Door Options:	1	
	2940006	Prior to S/N 33712		
	2940074	S/N 33712 to Present		
103		Handle, Door Options:	1	
	2560010	Prior to S/N 33712		
	Not Required	S/N 33712 to Present		
104	3911016	Screw, Machine #10-24NC x 1"	4	
105	4761000	Lockwasher #10	4	
106	4751000	Flatwasher #10	4	
107	3311001	Nut #10-24NC	4	
	0252408	FOOTSWITCH INSTALLATION	Ref.	5
201	4360031	Footswitch Assembly	1	
	7000625	Block, Contact	2	
	3252347	Decal	1	
		Note: Decal for other languages see Section 10		
202		Connector, Strain Relief Options:	1	
	4460422	Connector, Strain Relief - 90° (Prior to S/N 42965)	1	
	4460071	Connector, Strain Relief - Straight (S/N 42965 to Present)	1	

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FIGURE 4-2. PLATFORM AND COMPONENTS INSTALLATION - MODEL 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
203	0641408	Bolt 1/4"-20NC x 1"	3	
204	3311401	Nut 1/4"-20NC	3	
205	4751400	Flatwasher 1/4"	3	
206	Not Used			
207	4060803	Flex-Trim	2 in./5cm	
208	4921396	Harness (Console Box to Footswitch)	1	
RECEPTACLE BOX INSTALLATION (OPTIONAL)				
	0254542	35electric with 110VAC Receptacle	Ref.	D
	0253716	40electric with 110VAC Receptacle	Ref.	E
	0254042	45electric with 110VAC Receptacle	Ref.	D
	0257103	45electric with 220VAC Receptacle	Ref.	—
301	0860038	Box, Electrical	1	
302		Receptacle, Electrical Options:	1	
	4460347	110VAC		
	4460125	220VAC		
303	4060092	Cover, Receptacle	1	
304	4460071	Connector, Strain Relief	1	
305		Plug	1	
	4460205	110VAC		
	4460233	220VAC		
306		Harness Options (Upper Boom):	1	
	4921647	35electric		
	4921569	40electric		
	4921593	45electric		
306A	4460205	Plug, Male	1	
307		Screw, Machine Options:	4	
	3910606	110VAC (#6-32NC x 3/8")		
	4460233	220VAC (#10 x 1/2")		
308	4760600	Lockwasher Options:	4	
	4460205	110VAC (#6)		
	4460233	220VAC (#10)		
309	3960422	Gasket	1	
310		Harness Options (Lower Boom):	1	
	4921646	35electric		
	4921568	40electric		
	4921592	45electric		
310A	4460134	Receptacle	1	
311	4460315	Terminal (Not Shown - 220VAC Machines Only)	1	
312		Decal Options (Not Shown):	1	
	3251243	110VAC		
	3252507	220VAC		
OPTIONAL WORK LIGHTS KITS				
	2901251	Prior to S/N 36544	Ref.	E
	2901561	S/N 36544 to Present	Ref.	2
401	3536089	Plate, Mounting	2	
402	0641414	Bolt 1/4"-20NC x 1 3/4"	4	

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FIGURE 4-2. PLATFORM AND COMPONENTS INSTALLATION - MODEL 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
403	3311405	Locknut 1/4"-20NC	4	
404	4711400	Flatwasher 1/4" Narrow	4	
405	2920095	Floodlight	2	
	7016356	Bulb, Replacement (1per Light)	2	
406	4240099	Tie-Strap	10	
407 to 408	Not Used			
409	2820035	Loom, Vinyl (Not Shown)	9 ft./2.7m	
410	Not Used			
411		Connector, Strain Relief Options (Not Shown - Located at Console Box):	1	
	4460598	Prior to S/N 28755		
	4460428	S/N 28755 to Present		
	2901213	OPTIONAL CONSOLE COVER KIT - STANDARD MACHINES	Ref.	—
501	1670636	Cover	1	
	0254955	OPTIONAL CONSOLE COVER KIT - U/L MACHINES (NOT SHOWN)	Ref.	A
501	1670732	Cover, Console	1	
	1020005	Button, Tear Away	A/R	
	1670688	Cover, Tear Away	A/R	

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FIGURE 4-2. PLATFORM AND COMPONENTS INSTALLATION - MODEL 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

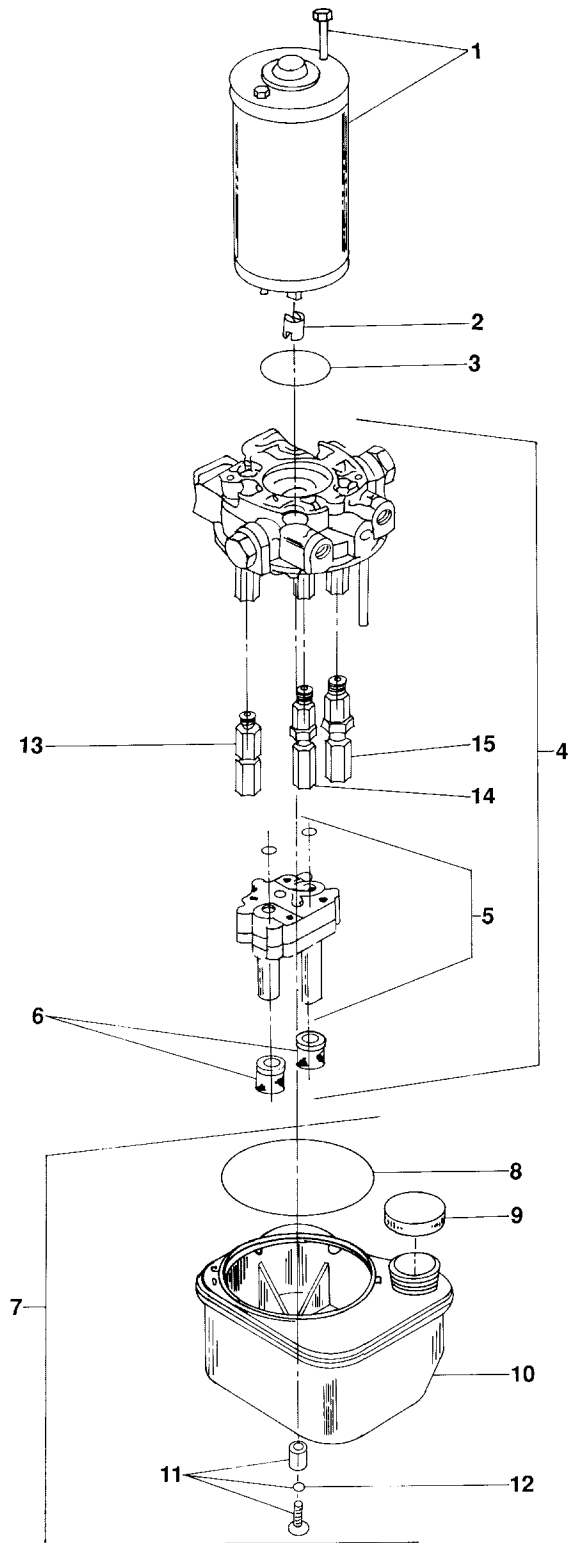
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FIGURE 4-3. ROTATOR MOTOR/PUMP/TANK ASSEMBLY



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FIGURE 4-3. ROTATOR MOTOR/PUMP/TANK ASSEMBLY

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	3600207	ROTATOR MOTOR/PUMP/TANK ASSEMBLY	Ref.	—
1	7003550	Motor (Includes Mounting Bolts)	1	
	Not Available	Brush/Spring Kit	1	
2	7003551	Coupling	1	
3	Kit	O-Ring	1	
4	7003552	Pump/Adapter Assembly	1	
5	7003553	Pump Assembly	1	
6	7003554	Filter	1	
7	7003555	Reservoir Assembly	1	
8	Kit	Seal	1	
9	7003556	Cap, Reservoir	1	
10	7003557	Reservoir	1	
11	7003558	Mounting Kit	1	
12	Kit	O-Ring	4	
13	7003559	Cartridge - Thermal Relief Valve	1	
14	7003560	Cartridge - High Pressure Relief Valve	1	
15	7003561	Cartridge - Low Pressure Relief Valve	1	

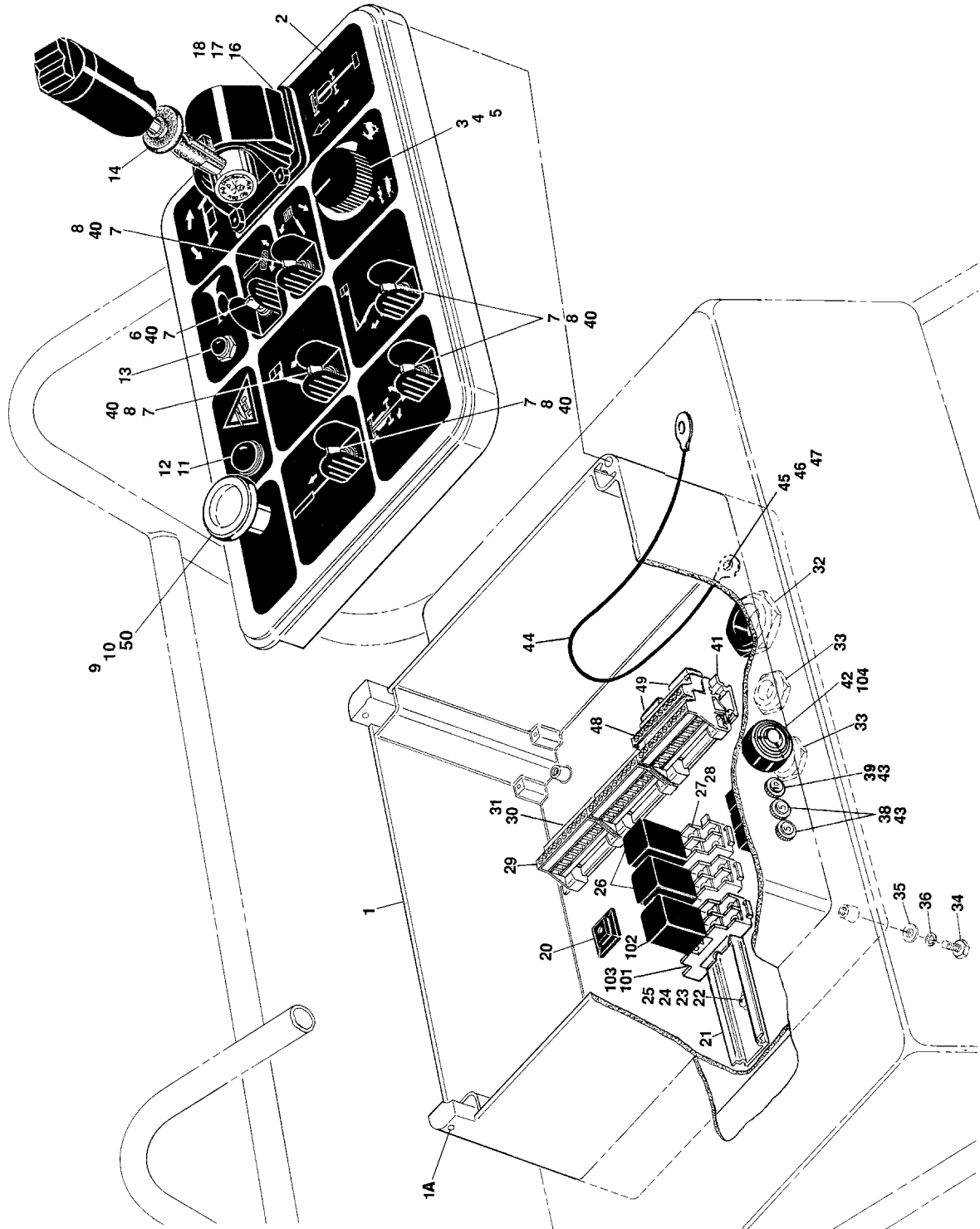
	7003562	Seal Kit (Includes Items 3,8,12 and Pump Seals and O-Rings)	1	

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FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY

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FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		PLATFORM CONSOLE ASSEMBLY		
	0860920	30electric Prior to S/N 31037	Ref.	4
	0861058	30electric S/N 31037 to S/N 36544	Ref.	A
	0861184	30electric S/N 36544 to Present	Ref.	3
	0860921	35electric Prior to S/N 31037	Ref.	D
	0861059	35electric S/N 31037 to S/N 36648	Ref.	2
	0861186	35electric S/N 36648 to Present	Ref.	3
	0860922	40electric & 45electric Prior to S/N 31037	Ref.	C
	0861060	40electric & 45electric S/N 31037 to S/N 36648	Ref.	A
	0861187	40electric & 45electric S/N 36648 to Present	Ref.	3
1		Box Assembly Options:	1	
	0860895	30electric (Prior to S/N 31037)		
	0861057	30electric (S/N 31037 to Present)		
	0860876	35electric/40electric/45electric (Prior to S/N31037)		
	0861056	35electric/40electric/45electric (S/N31037 to Present)		
1A	2900859	Hinge Pin/Retainer/Gasket Kit	1	
2		Decal Options:	1	
	1702287	30electric (Prior to S/N 47045)		
	1704414	30electric (S/N 47045 to Present)		
	1702286	35electric (Prior to S/N 47045)		
	1704415	35electric (S/N 47045 to Present)		
	1702285	40electric/45electric (Prior to S/N 47045)		
	1704416	40electric/45electric (S/N 47045 to Present)		
3		Potentiometer Options (Function Speed):	1	
	4360365	Prior to S/N 31037		
	4360445	S/N 31037 to Present		
4	3300352	Nut, Special (Prior to S/N 31037 Only)	1	
5		Knob Options:	1	
	2560115	Prior to S/N 31037		
	2560136	S/N 31037 to Present		
6		Switch, Toggle Options (Basket Rotate):	A/R	
	Not Required	30electric	0	
	4360314	35electric/40electric/45electric	1	
7	4060802	Guard, Switch	A/R	
8	4360328	Switch, Toggle (Swing/Lift/Tele/Level)	5	
9		Switch, Push-Pull Options (Emergency Stop):	1	
	4360317	Switch (Prior to S/N31037)	1	
	7012566	Lens	1	
	7012517	Bulb	1	
	4360289	Switch (S/N31037 to S/N 47045)	1	
	7012611	Push-Pull Mush Head	1	
	7012612	Boot	1	
	4360475	Switch, Emergency Stop (S/N 47045 to Present)	1	
	7020175	Cap/E-Stop With Sealing Ring	1	
	7020176	Contact Block With Mount Collar	1	

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FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
10		Block, Contact Options:	1	
	4360282	Prior to S/N 47045		
	4360476	S/N 47045 to Present		
11	2920120	Light, Indicator	1	
12	2920107	Bulb	1	
13	4360274	Switch, Push Button (Horn)	1	
14	1600175	Controller Assembly (Drive/Steer) (See Figure 4-5 for Breakdown)	1	
15	0720805	Screw, Machine #8-32NC x 5/8"	4	
16	4750800	Flatwasher #8	4	
17	4760800	Lockwasher #8	4	
18	3537234	Plate, Controller Support	1	
19	3520031	Plug, Hole	1	
20	4460488	Mount, Cable Tie	4	
21	3640834	Strip, Terminal	A/R	
22	3910608	Screw #6-32NC x 1 1/2"	4	
23	4760600	Lockwasher #6	4	
24	4750600	Flatwasher #6	4	
25	3310601	Nut #6-32NC	4	
26	3740087	Relay	A/R	
27	4120027	Base, Relay	A/R	
28	3740063	Spring, Relay	A/R	
29	4460522	Block, Terminal	3	
30	4460525	Markers, Terminal	2	
31	4460524	Lock, Terminal	3	
32	4460526	Connector, Strain Relief	1	
33	4460428	Connector, Strain Relief	A/R	
34	0641508	Bolt 5/16"-18NC x 1"	4	
35	4751500	Flatwasher 5/16"	4	
36	4761500	Lockwasher 5/16"	4	
37	Not Used			
38	4360112	Breaker, Circuit - 5 Amp	2	
39		Breaker, Circuit - 10 Amp	A/R	
	Not Required	30electric	0	
	4360069	35electric/40electric/45electric	1	
40	4740420	Washer, Sealing	6	
41	3640930	Rail	1	
42	0100029	Silicone	A/R	
43	3790012	O-Ring	3	
44	1060329	Lanyard	1	
45	0731003	Bolt #10-24NC x 3/8"	1	
46	4751000	Flatwasher #10	1	
47	4761000	Lockwasher #10	1	
48		Plug, Terminal Options:	A/R	
	Not Required	30electric	0	
	4460523	35electric/40electric/45electric	1	
49		Bridge, Insertion Options:	A/R	
	Not Required	30electric	0	
	4460529	35electric/40electric/45electric	2	

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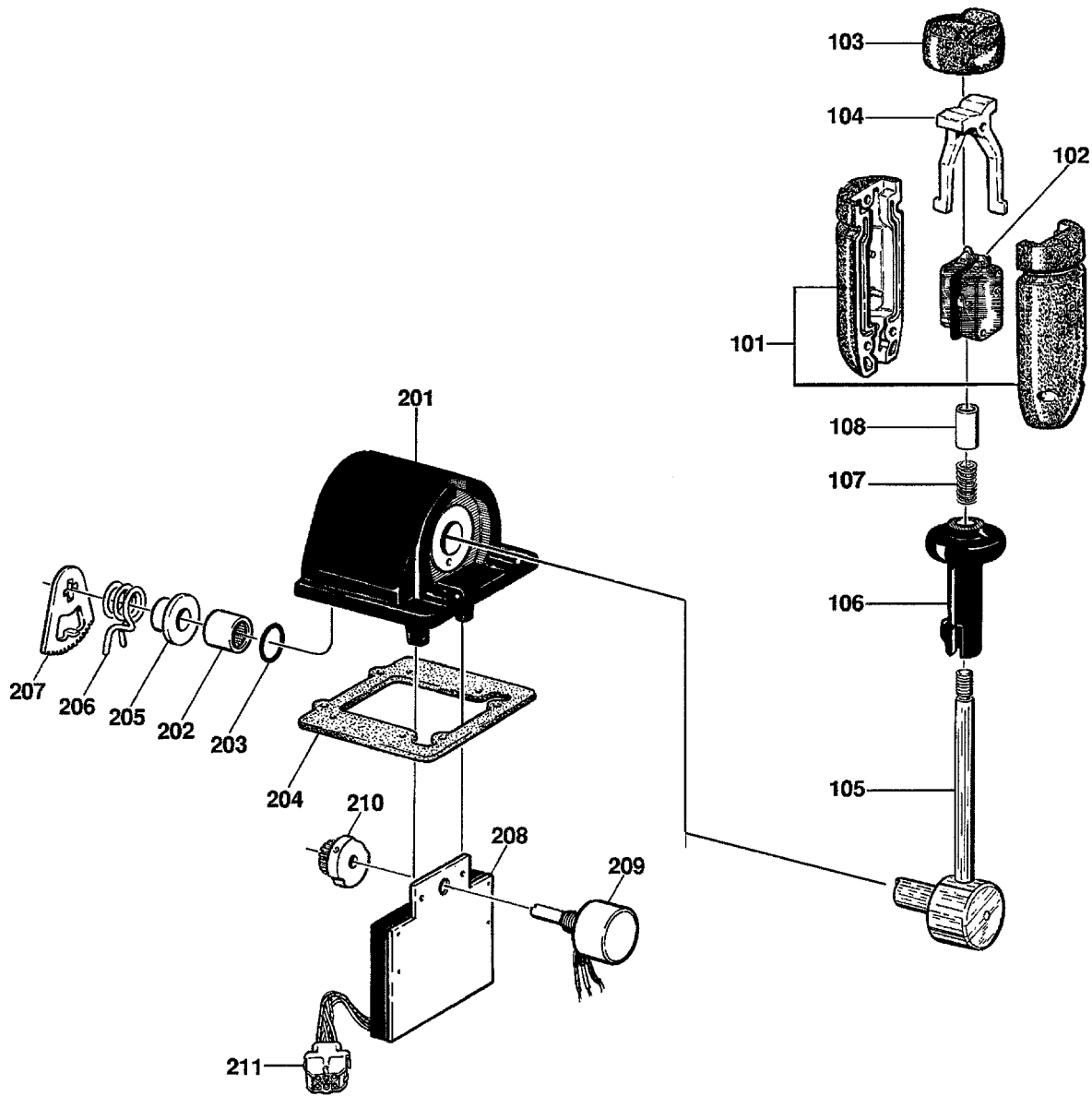
FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
50	1704260	Decal - EMS (S/N 47045 to Present)	1	
		OPTIONAL TILT ALARM KIT (OPTIONAL)		
	2901216	30electric	Ref.	
	2901250	35electric	Ref.	
	4932681	40electric & 45electric	Ref.	
101	4120027	Base, Relay	1	
102	3740087	Relay	1	
103	3740063	Spring, Relay	1	
104	0140030	Alarm	1	
105	3990001	Diode - 3.5 Amp (Not Shown)	A/R	

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FIGURE 4-5. CONTROL ASSEMBLY (DRIVE/STEER)



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FIGURE 4-5. CONTROL ASSEMBLY (DRIVE/STEER)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	1600175	CONTROLLER ASSEMBLY (DRIVE/STEER)	Ref.	—
	7003795	ROCKER SWITCH GRIP HANDLE ASSEMBLY	Ref.	
101	7003792	Half, Handle	2	
102	7003789	Switch, Rocker	1	
103	7003790	Cap, Rubber	1	
104	7003791	Actuator, Switch	1	
105	7003793	Shaft, Handle	1	
106	Kit	Lock, Slide	1	
107	Kit	Spring	1	
108	Kit	Sleeve	1	
109	7011973	Bolt 1/4"-20NC x 3/8" with Hole Drilled in Center (Not Shown)	1	

	7003722	Slide Lock Repair Kit (Includes Items 106-108)	1	
		HOUSING AND INTERNAL COMPONENTS	Ref.	
201	7003702	Housing Assembly (Includes Items 202 and 203)	1	
202	7003739	Bushing, Bronze	1	
203	3790112	O-Ring	1	
204	7003703	Gasket	1	
205	7003744	Guide, Spring	1	
206	7003719	Spring, Torsion	1	
207	7011904	Sector, Gear	1	
208	7011942	Electrical Assembly	1	
209	7003751	Potentiometer	1	
210	7003788	Gear, Brass Spur	1	
	7020511	Set Screw	1	
211		Harness Connector Components:	A/R	
	4460266	Cap, Female - 9 Pin	1	
	4460265	Plug, Male	1	
	4460226	Socket, Female	9	
	4460227	Pin, Male	9	

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FIGURE 4-5. CONTROL ASSEMBLY (DRIVE/STEER) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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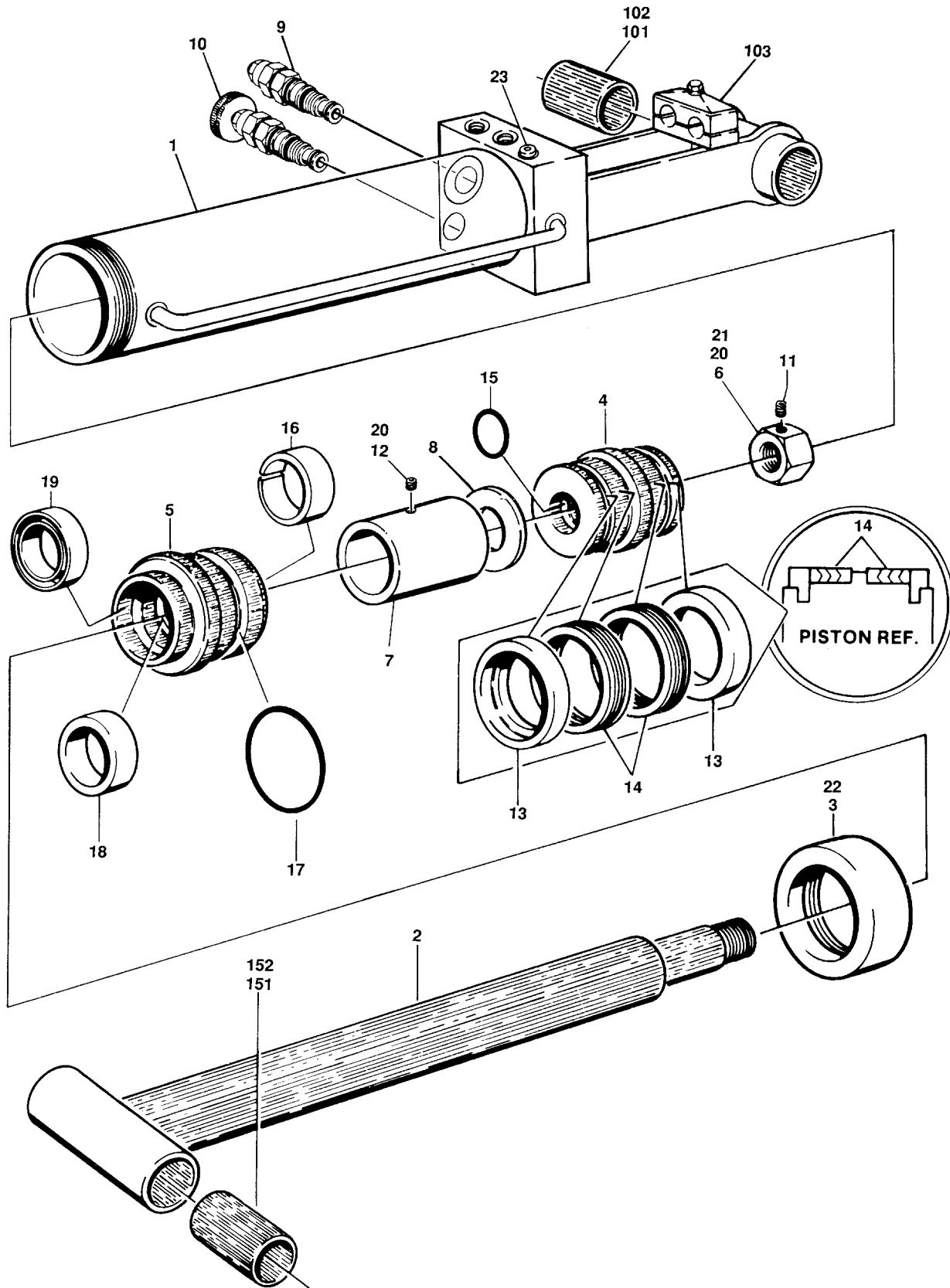
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FIGURE 5-1. LIFT CYLINDER ASSEMBLY - MODEL 30electric



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FIGURE 5-1. LIFT CYLINDER ASSEMBLY - MODEL 30ELECTRIC

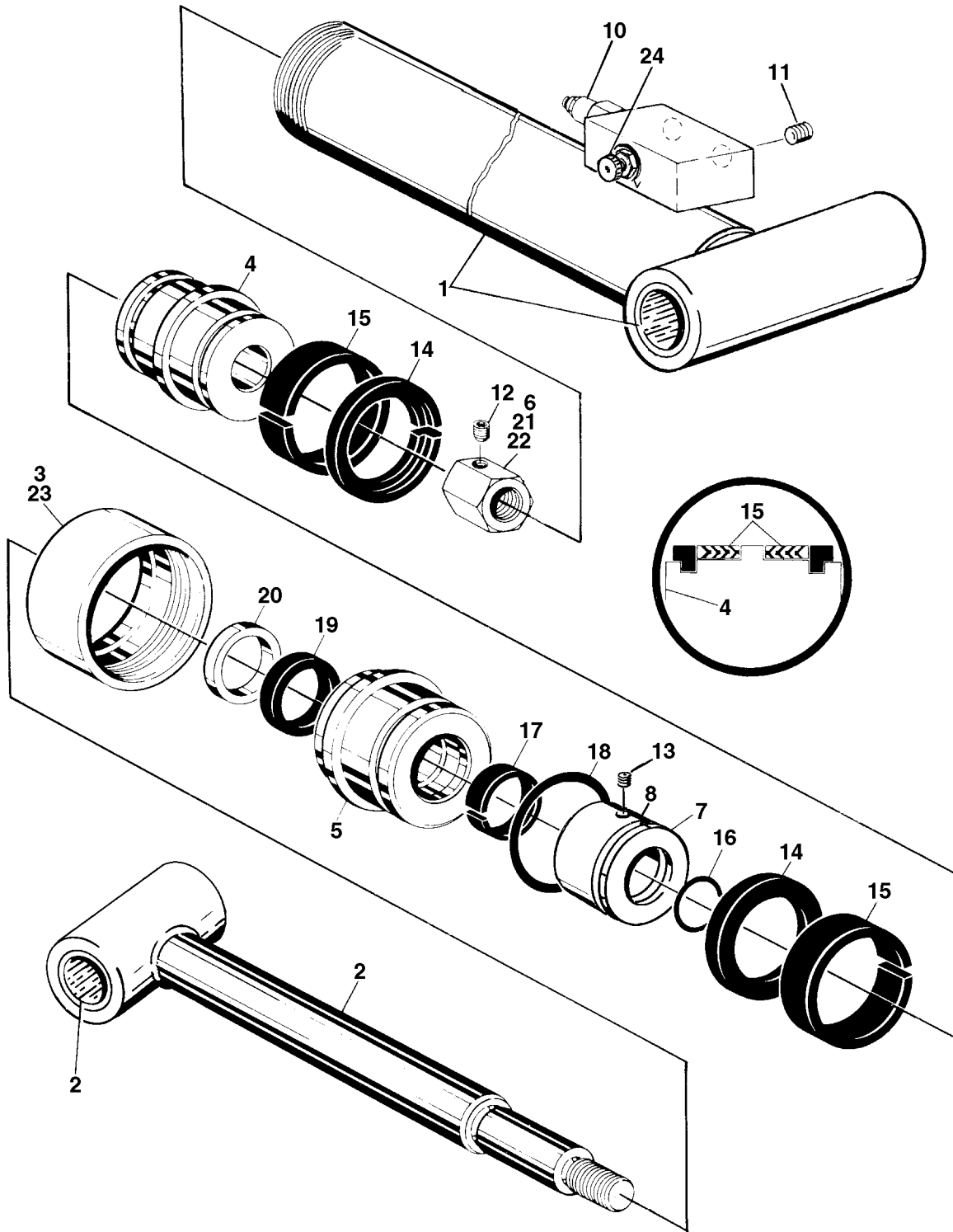
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	1682662	LIFT CYLINDER ASSEMBLY - MODEL 30ELECTRIC	Ref.	E/6
1	1682663	Barrel Assembly (Includes Items 101-103)	1	
2	1682544	Rod Assembly (Includes Items 151-152)	1	
3	1120108	Retainer	1	
4	3480115	Piston	1	
5	1681344	Head	1	
6	3300279	Nut	1	
7	4565332	Spacer, Tube	1	
8	4740394	Washer	1	
9		Holding Cartridge Valve Options:	1	
	Use 4641084	Cartridge (Prior to Sept 1995) (was p/n 4640746)		
	Use 4641084	Cartridge (Sept 1995 to S/N39627) (was p/n 4640938)		
	4641084	Cartridge (S/N39627 to Present)		
	2900770	Seal Kit - 4640746/ 460938/4641084 Cartridges	1	
10	4640799	Valve, Needle Cartridge	1	
	7010545	Seal Kit - 4640799 Cartridge	1	
		Knob Options:	1	
	7012961	Black (Machines Built Through 1997)		
	7017438	Red (Machines Built 1998 to Present)		
11	3900170	Setscrew 3/8"-16NC x 3/8"	1	
12	3951402	Setscrew 1/4"-20NC x 1/4"	1	
13	Kit	Ring, Lock	2	
14	Kit	Seal	2	
15	Kit	O-Ring	1	
16	Kit	Ring, Wear	1	
17	Kit	O-Ring	1	
18	Kit	Seal, Rod	1	
19	Kit	Seal, Wiper	1	
20	0100011	Loctite #242	A/R	
21	0100038	Primer, Locking	A/R	
22	0100035	Loctite #222	A/R	
23	2220883	Plug, O-Ring	2	

	2900371	Seal Kit (Includes Items 13-19) (1 Per Cylinder)	2	
	1682663	BARREL ASSEMBLY	Ref.	
101	0961602	Bushing, Teflon (Includes Item 102)	2	
102	3790029	O-Ring (1 Per Bushing)	2	
103	1320051	Clamp	1	
	1682544	ROD ASSEMBLY	Ref.	
151	0961602	Bushing, Teflon (Includes Item 152)	2	
152	3790029	O-Ring (1 Per Bushing)	2	

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FIGURE 5-2. UPPER LIFT CYLINDER ASSEMBLIES - MODELS 35electric, 40electric AND 45electric



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FIGURE 5-2. UPPER LIFT CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		UPPER LIFT CYLINDER ASSEMBLIES		
	1682867	40electric & 45electric (Prior to March 1995)	Ref.	E
	1683337	40electric & 45electric (March 1995 to S/N 29899)	Ref.	—
	1683506	40electric & 45electric (S/N 29899 to S/N 33090)	Ref.	—
	1683520	40electric & 45electric (S/N 33090 to Present)	Ref.	A/1
	1682958	35electric (Prior to S/N 29899)	Ref.	D
	1683509	35electric (S/N 29899 to Present)	Ref.	1
1		Barrel Weldment Options: 40electric & 45electric	1	
	1682868	1682867 Cylinder (Prior to March 1995)		
	1682868	1683337 Cylinder (March 1995 to S/N 29899)		
	1682868	1683506 Cylinder (S/N 29899 to S/N 33090)		
	1683514	1683520 Cylinder (S/N 33090 to Present)		
	1682988	35electric		
	0961726	Bushing, Teflon	2	
2		Rod Weldment Options: 40electric & 45electric	1	
	1682870	1682867 Cylinder (Prior to March 1995)		
	1682870	1683337 Cylinder (March 1995 to S/N 29899)		
	1683505	1683506 Cylinder (S/N 29899 to S/N 33090)		
	1683505	1683520 Cylinder (S/N 33090 to Present)		
		35electric		
	1682972	1682958 Cylinder (Prior to S/N 29899)		
	1683508	1683509 Cylinder (S/N 29899 to Present)		
	0961726	Bushing, Teflon	2	
3	1120108	Retainer	1	
4	3480115	Piston	1	
5		Head Options: 40electric & 45electric	1	
	1681344	1682867 Cylinder (Prior to March 1995)		
	1681344	1683337 Cylinder (March 1995 to S/N 29899)		
	1683504	1683506 Cylinder (S/N 29899 to S/N 33090)		
	1683504	1683520 Cylinder (S/N 33090 to Present)		
		35electric		
	1681344	1682958 Cylinder (Prior to S/N 29899)		
	1683504	1683509 Cylinder (S/N 29899 to Present)		
6		Nut, Hex Options:	1	
	3300279	40electric & 45electric		
	3300315	35electric		
7		Washer Options: 40electric & 45electric	1	
	4740394	1682867 Cylinder (Prior to March 1995)		
	4740394	1683337 Cylinder (March 1995 to S/N 29899)		
	Not Required	1683506 Cylinder (S/N 29899 to S/N 33090)		
	Not Required	1683520 Cylinder (S/N 33090 to Present)		

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FIGURE 5-2. UPPER LIFT CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
7 (cont'd)		35electric		
	4740394	1682958 Cylinder (Prior to S/N 29899)		
	Not Required	1683509 Cylinder (S/N 29899 to Present)		
8		Spacer Options:	1	
		40electric & 45electric		
	4566009	1682867 Cylinder (Prior to March 1995)		
	4566009	1683337 Cylinder (March 1995 to S/N 29899)		
	4567177	1683506 Cylinder (S/N 29899 to S/N 33090)		
	4567177	1683520 Cylinder (S/N 33090 to Present)		
		35electric		
	4566473	1682958 Cylinder (Prior to S/N 29899)		
	4567180	1683509 Cylinder (S/N 29899 to Present)		
9	Not Required			
10		Cartridge, Holding Options:	1	
		40electric & 45electric		
	4640771	Cartridge (Prior to March 1995)		
	4640936	Cartridge (March 1995 to Present)		
	2900770	Seal Kit - 4640771 and 4640936 Valves	1	
		35electric		
	4640771	Cartridge, Holding Valve	1	
	2900770	Seal Kit - 4640771 Valve	1	
11		Plug Options:	1	
		40electric & 45electric		
	2220885	35electric		
	Not Required			
12	3900170	Setscrew 3/8"-16NC x 3/8"	1	
13	3951402	Setscrew 1/4"-20NC x 1/4"	1	
14	Kit	Ring, Lock	2	
15	Kit	Seal, Piston	2	
16	Kit	O-Ring	1	
17	Kit	Ring, Wear	1	
18	Kit	O-Ring	1	
19	Kit	Seal, Rod	1	
20	Kit	Wiper Rod	1	
21	0100011	Loctite #242	A/R	
22	0100038	Primer, Locking	A/R	
23	0100035	Loctite #222	A/R	
24		Cartridge, Needle Valve Options:	1	
	Not Required	40electric & 45electric		
	4640799	35electric		

		Seal Kit Options (Includes Items 14-20):	1	
		40electric & 45electric		
	2900371	1682867 & 1683337 Cylinders (Prior to S/N 29899)		
	2901496	1683506 & 1683520 Cylinder (S/N 29899 to Present)		
		35electric		
	2900371	1682958 Cylinder (Prior to S/N 29899)		
	2901496	1683509 Cylinder (S/N 29899 to Present)		

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FIGURE 5-2. UPPER LIFT CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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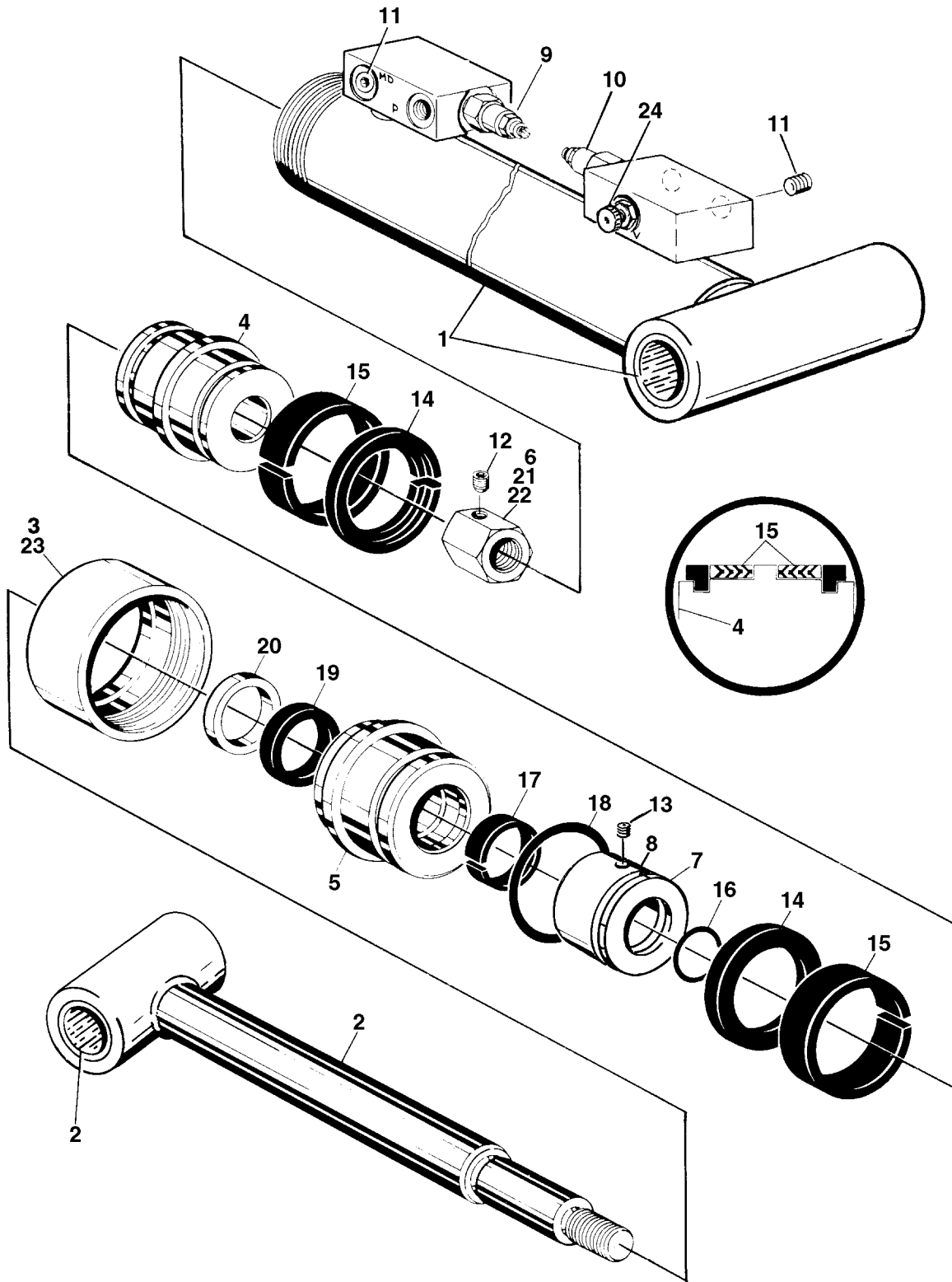
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FIGURE 5-3. MID LIFT CYLINDER ASSEMBLIES - MODELS 40electric AND 45electric

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FIGURE 5-3. MID LIFT CYLINDER ASSEMBLIES - MODELS 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		MID LIFT CYLINDER ASSEMBLY		
	1683018	45electric (Prior to S/N 33090)	Ref.	D/4
	1683522	45electric (S/N 33090 to Present)	Ref.	A/1
	1682861	40electric (Prior to S/N 33111)	Ref.	C/3
	1683519	40electric (S/N 33111 to Present)	Ref.	A/1
1		Barrel Weldment Options:	1	
		45electric		
	1683019	1683018 Cylinder (Prior to S/N33090)		
	1683516	1683522 Cylinder (S/N33090 to Present)		
		40electric		
	1682862	1682861 Cylinder (Prior to S/N 33111)		
	1683513	1683519 Cylinder (S/N 33111 to Present)		
	0961726	Bushing, Teflon	2	
2		Rod Weldment Options:	1	
	1683021	45electric		
	1682864	40electric		
	0961726	Bushing, Teflon	2	
3		Retainer Options:	1	
	1120305	45electric		
	1120108	40electric		
4		Piston Options:	1	
	3480113	45electric		
	3480115	40electric		
5		Head Options:	1	
	1682209	45electric		
	1681344	40electric		
6		Nut, Hex Options:	1	
	3300281	45electric		
	3300279	40electric		
7		Washer Options:	1	
	4740207	45electric		
	4740394	40electric		
8		Spacer Options:	1	
	4566435	45electric		
	4565994	40electric		
9	4640634	Cartridge, Holding Valve	1	
	2900770	Seal Kit - 4640634	1	
10	4640816	Cartridge, Holding Valve	1	
	2900770	Seal Kit - 4640771 Valve	1	
11	2220885	Plug	2	
12	3900170	Setscrew 3/8"-16NC x 3/8"	1	
13		Setscrew 1/4"-20NC x 1/4" Options:	1	
	Not Required	45electric		
	3951402	40electric		
14	Kit	Ring, Lock	2	
15	Kit	Seal, Piston	2	
16	Kit	O-Ring	1	

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**FIGURE 5-3. MID LIFT CYLINDER ASSEMBLIES - MODELS 40ELECTRIC AND 45ELECTRIC
(CONTINUED)**

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
17	Kit	Ring, Wear	1	
18	Kit	O-Ring	1	
19	Kit	Seal, Rod	1	
20	Kit	Wiper Rod	1	
21	0100011	Loctite #242	A/R	
22	0100038	Primer, Locking	A/R	
23	0100035	Loctite #222	A/R	
24	Not Required			

		45electric		
	2901154	Seal Kit - 1683018 & 1683522 Mid Lift Cylinder (Includes Items 14-20)	1	
		40electric		
	2900371	Seal Kit - 1682861 & 1683519 Mid Lift Cylinder (Includes Items 64-70)	1	

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FIGURE 5-3. MID LIFT CYLINDER ASSEMBLIES - MODELS 40ELECTRIC AND 45ELECTRIC
(CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

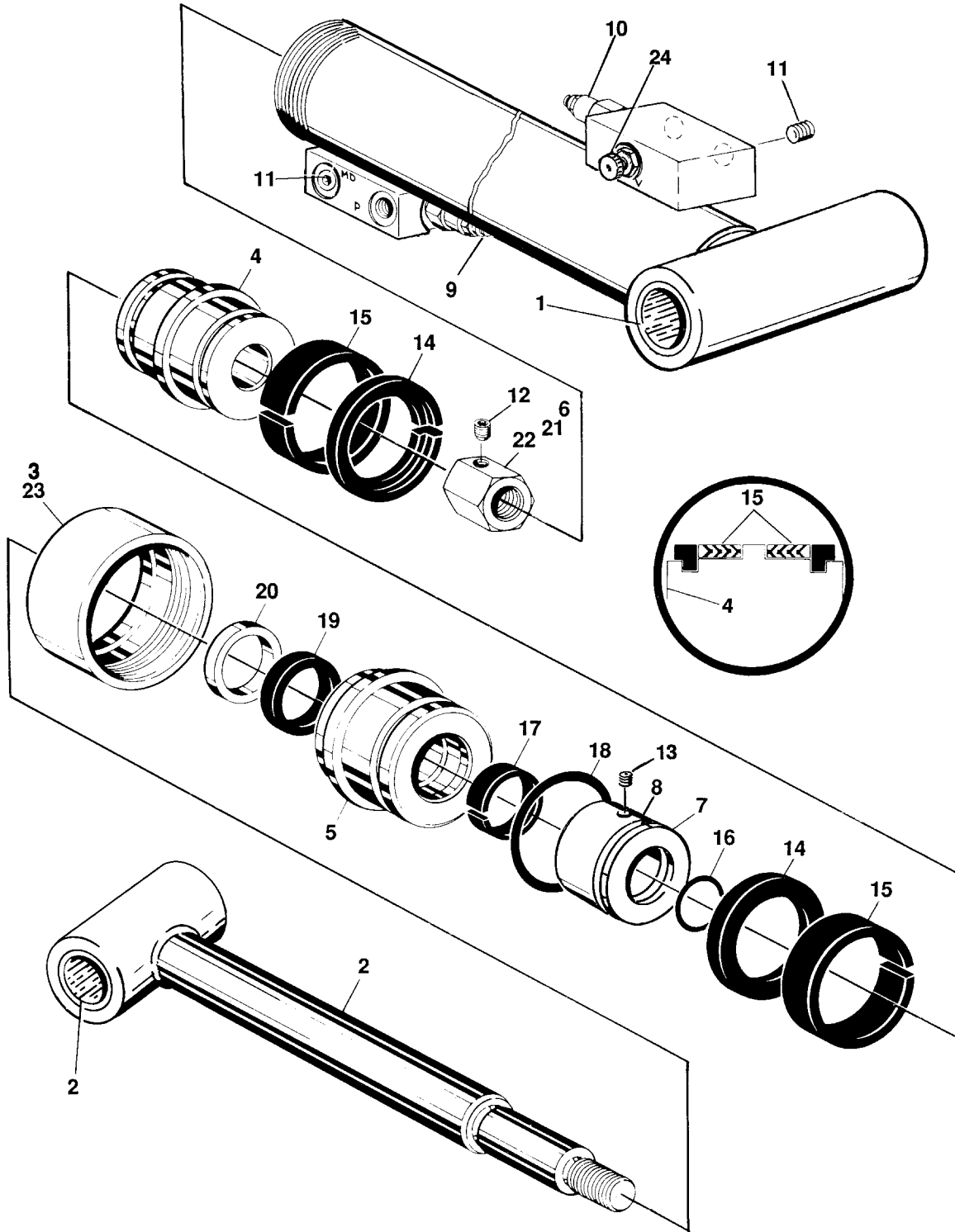
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FIGURE 5-4. LOWER LIFT CYLINDER ASSEMBLIES - MODELS 35electric, 40electric AND 45electric



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FIGURE 5-4. LOWER LIFT CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		LOWER LIFT CYLINDER ASSEMBLY		
	1683013	45electric (Prior to S/N 33090)	Ref.	4
	1683521	45electric (S/N 33090 to Present)	Ref.	A/1
	1682855	40electric (Prior to S/N 33111)	Ref.	D/4
	1683518	40electric (S/N 33111 to Present)	Ref.	A/1
	1682980	35electric	Ref.	4
1		Barrel Weldment Options:	1	
		45electric		
	1683014	1683013 Cylinder (Prior to S/N33090)		
	1683515	1683521 Cylinder (S/N33090 to Present)		
		40electric		
	1682856	1682855 Cylinder (Prior to S/N 33111)		
	1683512	1683518 Cylinder (S/N 33111 to Present)		
	1682981	35electric		
	0961726	Bushing, Teflon	2	
2		Rod Weldment Options:	1	
	1683016	45electric		
	1682858	40electric		
	1682983	35electric		
	0961726	Bushing, Teflon	2	
3		Retainer Options:	1	
	1120094	45electric		
	1120305	40electric		
	1120305	35electric		
4		Piston Options:	1	
	3480102	45electric		
	3480113	40electric		
	3480113	35electric		
5		Head Options:	1	
	1682323	45electric		
	1682209	40electric		
	1682209	35electric		
6	3300281	Nut, Hex	1	
7		Washer Options:	1	
	Not Required	45electric		
	4740207	40electric		
	4740207	35electric		
8		Spacer Options:	1	
	4566432	45electric		
	4565992	40electric		
	4566261	35electric		
9		Cartridge, Holding Valve Options:	1	
		40/45electric		
	4640634	Cartridge, Holding Valve	1	
	2900770	Seal Kit - 4640634 Valve	1	
	Not Required	35electric		

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FIGURE 5-4. LOWER LIFT CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
10		Cartridge, Holding Valve Options: 40/45electric	1	
	4640816	Cartridge, Holding Valve	1	
	2900770	Seal Kit - 4640816 Valve	1	
		35electric		
	4640746	Cartridge, Holding Valve	1	
	2900770	Seal Kit - 4640634 Valve	1	
11	2220885	Plug	2	
12	3900170	Setscrew 3/8"-16NC x 3/8"	1	
13	Not Required			
14	Kit	Ring, Lock	2	
15	Kit	Seal, Piston	2	
16	Kit	O-Ring	1	
17	Kit	Ring, Wear	1	
18	Kit	O-Ring	1	
19	Kit	Seal, Rod	1	
20	Kit	Wiper, Rod	1	
21	0100011	Loctite #242	A/R	
22	0100038	Primer, Locking	A/R	
23	0100035	Loctite #222	A/R	
24		Cartridge, Needle Valve Options:	1	
	Not Required	40/45electric		
	4640799	35electric		

		45electric		
	2901170	Seal Kit - 1683013 & 1683521 Lower Lift Cylinders (Includes Items 14-20)	1	
		40electric		
	2901154	Seal Kit - 1682855 & 1683518 Tower Lift Cylinders (Includes Items 14-20)	1	
		35electric		
	2901154	Seal Kit - 1682980 Lower Lift Cylinder (Includes Items 14-20)	1	

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FIGURE 5-4. LOWER LIFT CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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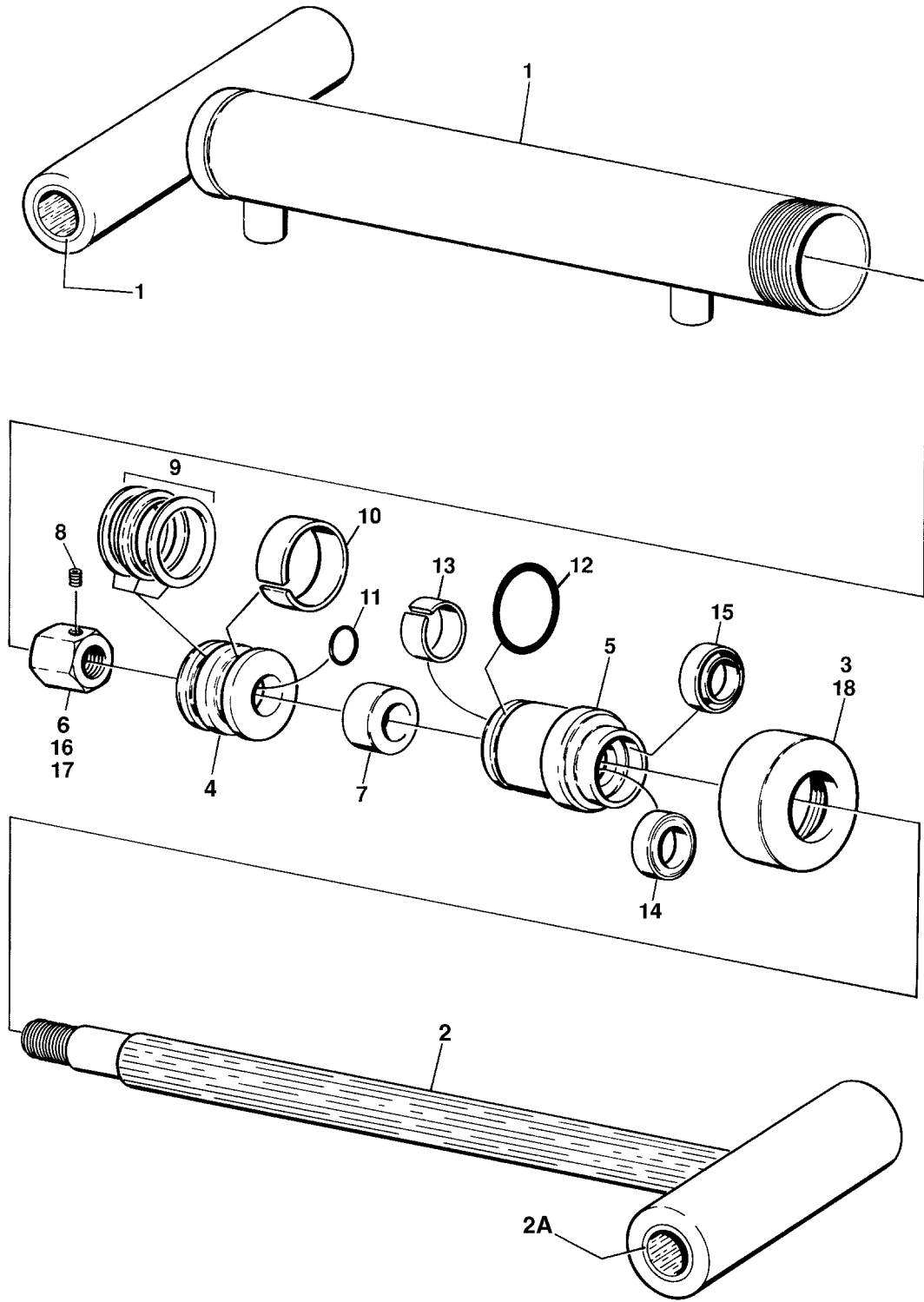
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FIGURE 5-5. MASTER CYLINDER ASSEMBLY - MODELS 35electric, 40electric AND 45electric

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FIGURE 5-5. MASTER CYLINDER ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

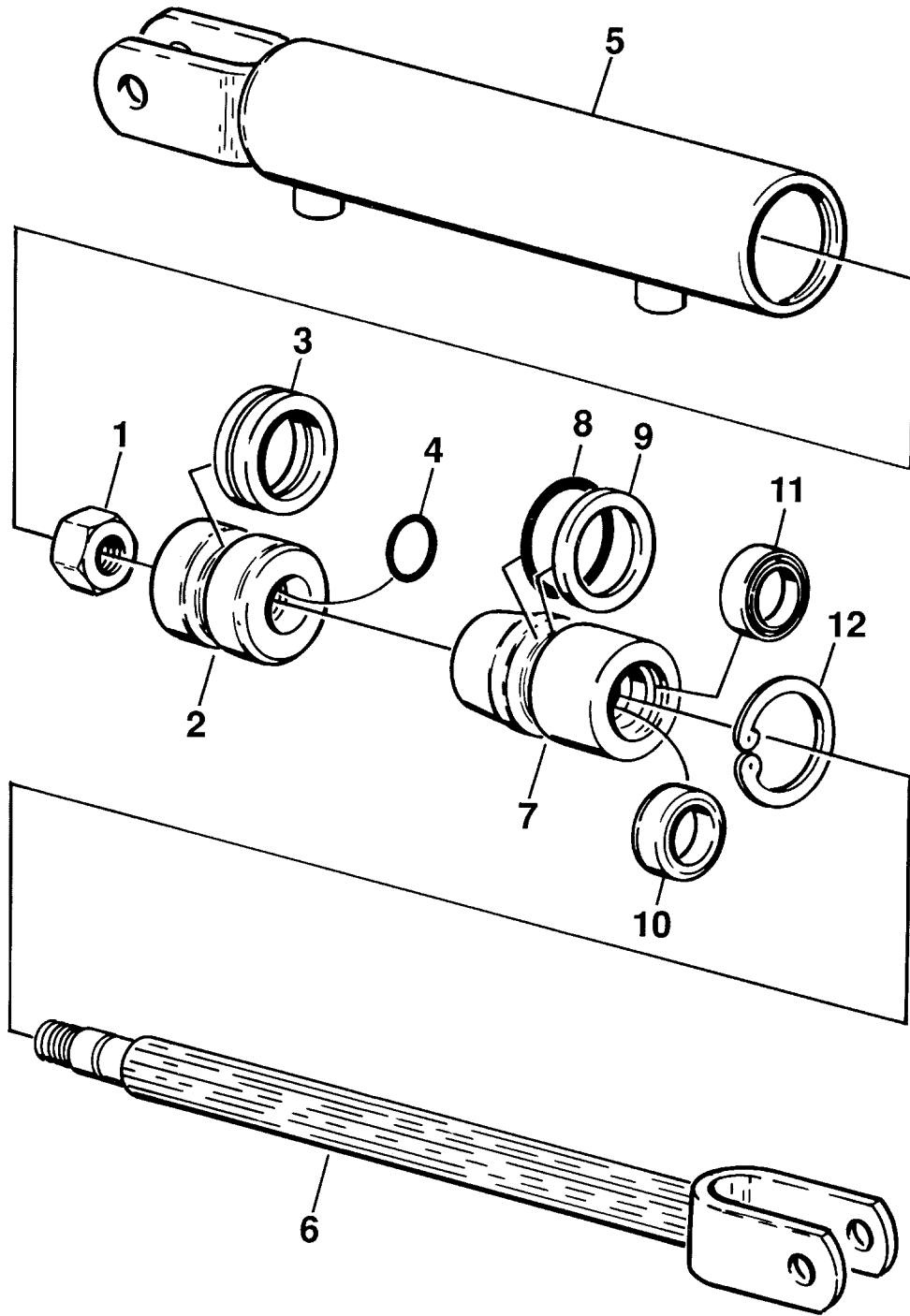
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		MASTER CYLINDER ASSEMBLY - MODELS		
	1682877	40electric & 45electric (Prior to January 1995)	Ref.	A
	1683325	40electric & 45electric (January 1995 to Present)	Ref.	1/A
1	1682879	Barrel Weldment	1	
	0961608	Bushing, Teflon	2	
2		Rod Weldment Options:	1	
	1682881	1682877 Cylinder (Prior to January 1995)		
	1683286	1683325 Cylinder (January 1995 to Present)		
2A	0961608	Bushing, Teflon	2	
3	1120110	Retainer	1	
4		Piston Options:	1	
	3480123	1682877 Cylinder (Prior to January 1995)		
	3480217	1683325 Cylinder (January 1995 to Present)		
5	1682154	Head	1	
6		Nut, Hex Options:	1	
	3300309	1682877 Cylinder (Prior to January 1995)		
	3300308	1683325 Cylinder (January 1995 to Present)		
7	4566023	Spacer, Tube	1	
8	3900170	Setscrew 3/8"-16NC x 3/8"	1	
9	Kit	T-Seal	1	
10	Kit	Ring, Wear	1	
11	Kit	O-Ring	1	
12	Kit	O-Ring	1	
13	Kit	Ring, Wear	1	
14	Kit	Seal, Rod	1	
15	Kit	Wiper, Rod	1	
16	0100038	Primer, Locking	A/R	
17	0100011	Loctite #242	A/R	
18	0100035	Loctite #222	A/R	

	2901147	Seal Kit (Includes Items 9-15)	1	

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FIGURE 5-6. PLATFORM ROTATOR CYLINDER ASSEMBLY - MODELS 35electric, 40electric AND 45electric



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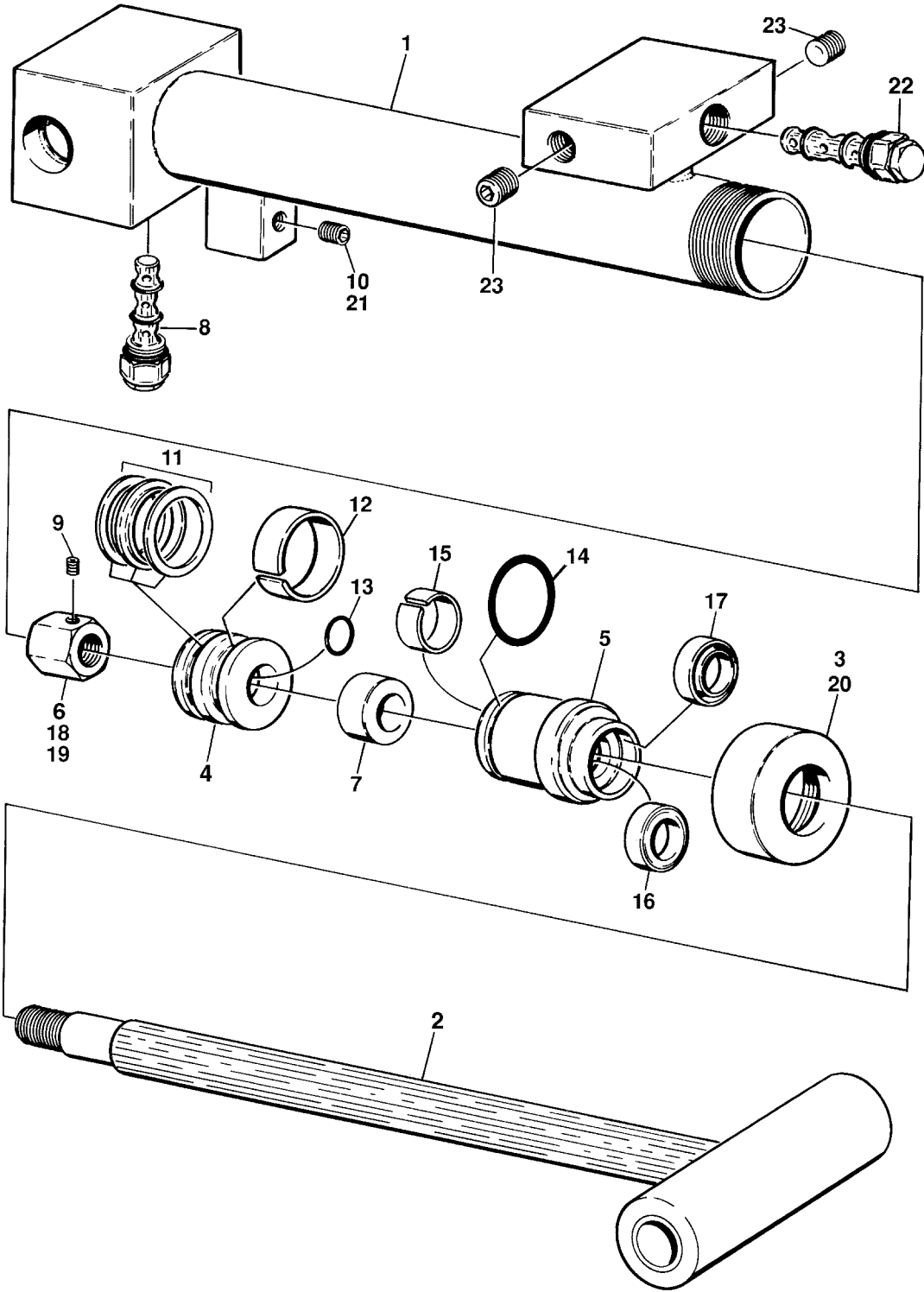
FIGURE 5-6. PLATFORM ROTATOR CYLINDER ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	1682930	PLATFORM ROTATOR CYLINDER ASSEMBLY - MODELS 35electric, 40electric AND 45electric	Ref.	B
1	7001609	Nut, Hex	1	
2	7001610	Piston	1	
3	Kit	Seal	1	
4	Kit	O-Ring	1	
5	7001611	Barrel Weldment	1	
6	7001612	Rod	1	
7	7001613	Head	1	
8	Kit	O-Ring	1	
9	Kit	Ring, Back-up	1	
10	Kit	Seal	1	
11	Kit	Wiper	1	
12	7001614	Ring, Retainer	1	
	7001608	----- Seal Kit - 1682930 Cylinder (Includes Items 3,4 & 8-11)	1	

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FIGURE 5-7. SLAVE CYLINDER ASSEMBLY - MODELS 35electric, 40electric AND 45electric



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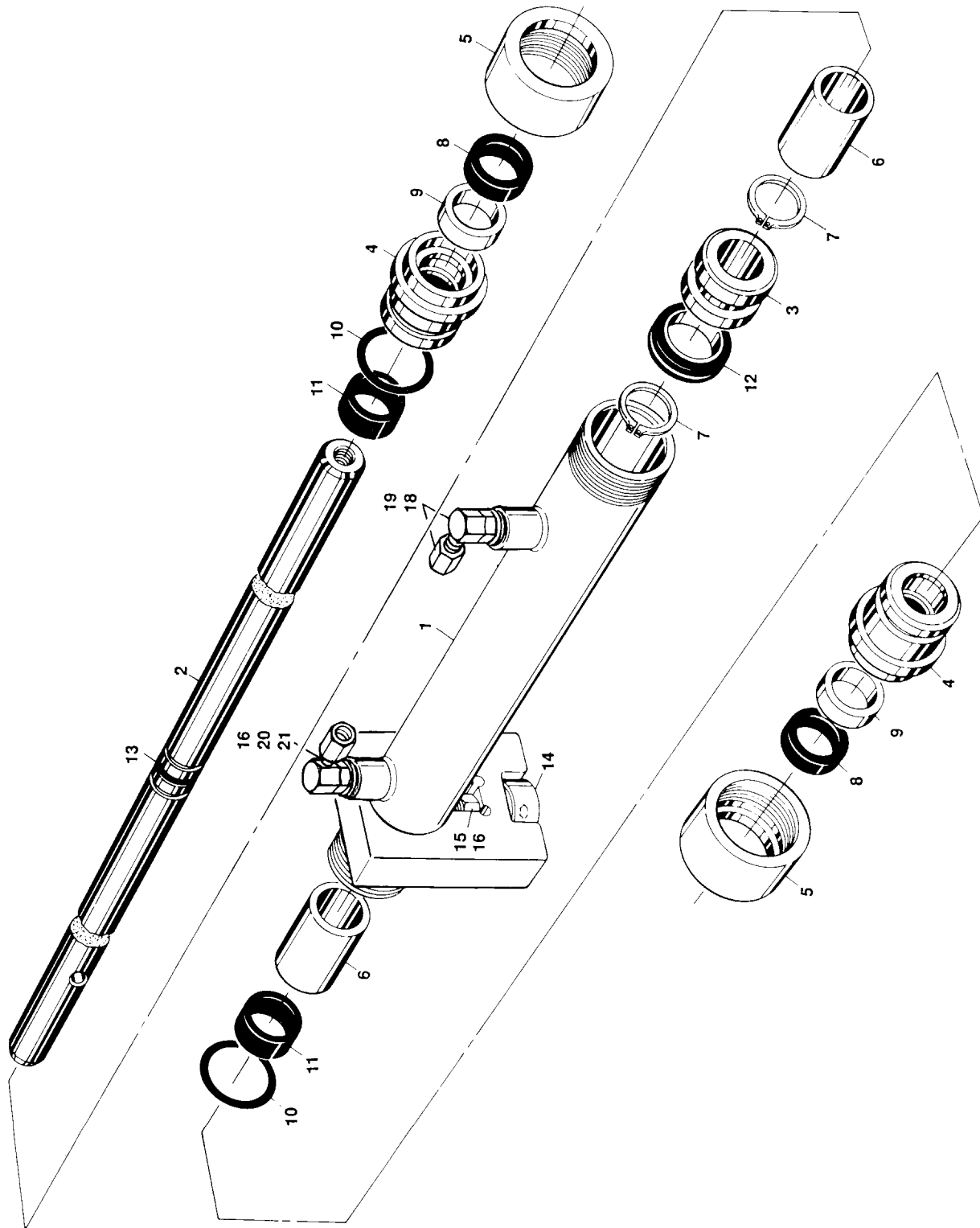
FIGURE 5-7. SLAVE CYLINDER ASSEMBLY - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		SLAVE CYLINDER ASSEMBLY		
	1682876	Prior to January 1995	Ref.	C
	1683285	January 1995 to Present	Ref.	A
1	1682878	Barrel Weldment	1	
	0961608	Bushing, Teflon	2	
2		Rod Weldment Options:	1	
	1682881	1682876 Cylinder (Prior to January 1995)		
	1683286	1683285 Cylinder (January 1995 to Present)		
	0961608	Bushing, Teflon	2	
3	1120110	Retainer	1	
4		Piston Options:	1	
	3480123	1682876 Cylinder (Prior to January 1995)		
	3480217	1683285 Cylinder (January 1995 to Present)		
5	1682154	Head	1	
6		Nut, Hex Options:	1	
	3300309	1682876 Cylinder (Prior to January 1995)		
	3300308	1683285 Cylinder (January 1995 to Present)		
7	4566023	Spacer, Tube	1	
8	4640509	Valve, Holding	1	
9	3900170	Setscrew 3/8"-16NC x 3/8"	1	
10	2200222	Plug, Pipe	1	
11	Kit	T-Seal	1	
12	Kit	Ring, Wear	1	
13	Kit	O-Ring	1	
14	Kit	O-Ring	1	
15	Kit	Ring, Wear	1	
16	Kit	Seal, Rod	1	
17	Kit	Wiper, Rod	1	
18	0100038	Primer, Locking	A/R	
19	0100011	Loctite #242	A/R	
20	0100035	Loctite #222	A/R	
21	0100020	Sealant, Pipe	A/R	
22		Cartridge, Holding Valve Options:	1	
	4640509	Cartridge (1682876 Cylinder-Prior to Jan 1995)	1	
	2900792	Seal Kit - 4640509 Valve	1	
	4640932	Cartridge (1683285 Cylinder-Jan 1995 to Present)	1	
	7011112	Seal Kit - 4640932 Valve	1	
23	2220883	Plug, Socket Hex	2	
	2901147	Seal Kit - 1682876 & 1683285 Cylinder (Includes Items 11-17)	1	

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FIGURE 5-8. STEER CYLINDER ASSEMBLIES



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FIGURE 5-8. STEER CYLINDER ASSEMBLIES

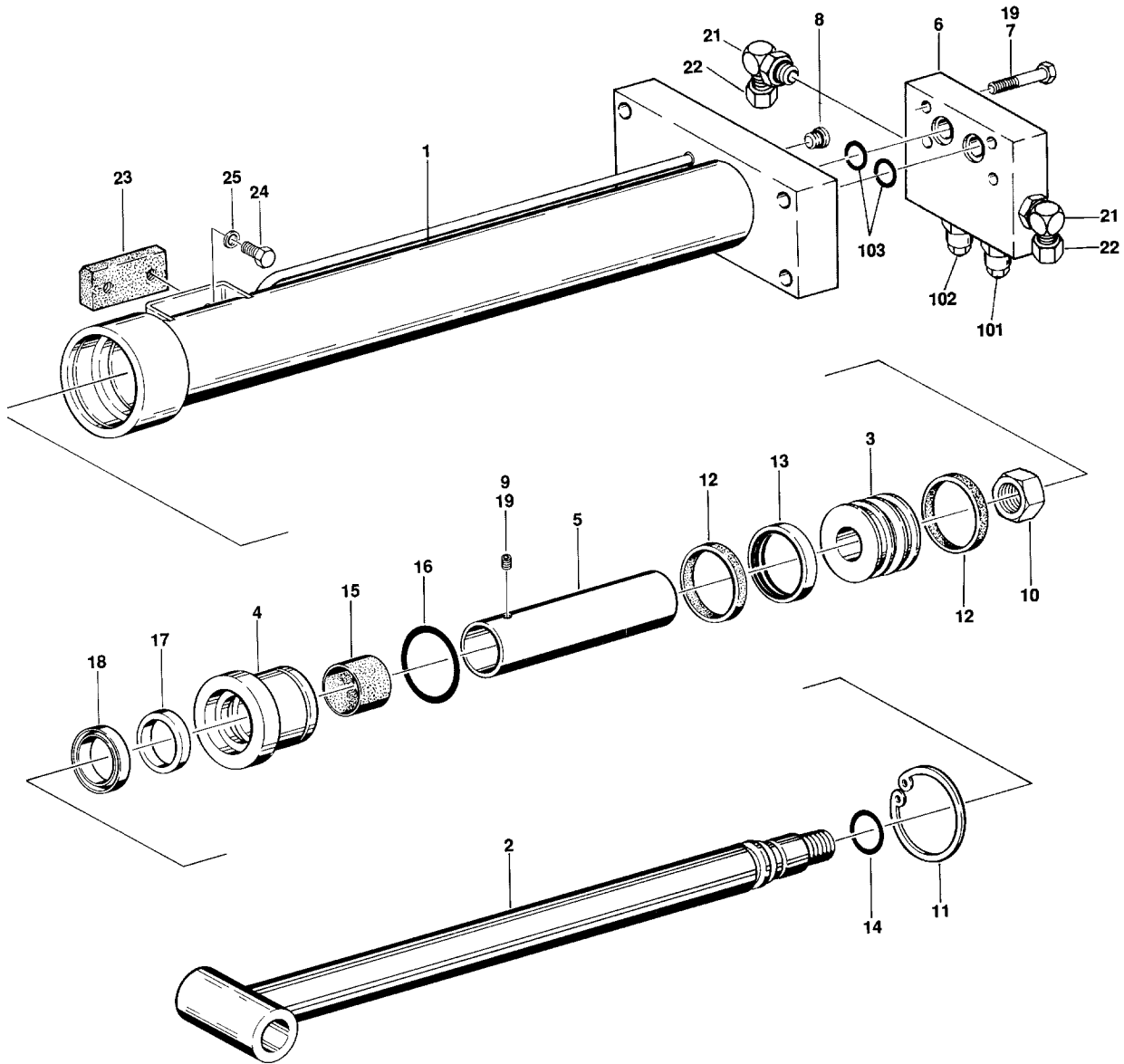
FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		STEER CYLINDER ASSEMBLIES		
	1682527	35electric/40electric/45electric (Prior to S/N37950)	Ref.	C/5
	1683695	35electric/40electric/45electric (S/N37950 to Present)	Ref.	A/2
	1682893	n35electric/n40electric (Prior to S/N37950)	Ref.	B/3
	1683696	n35electric/n40electric (S/N37950 to Present)	Ref.	A/2
1		Barrel Weldment Options:	1	
	1682528	1682527 & 1682893 Cyls (Prior to S/N37950)		
	1683694	1683695 & 1683696 Cyls (S/N37950 to Present)		
2		Rod Weldment Options:	1	
	1682530	35electric/40electric/45electric		
	1682894	n35electric/n40electric		
3	3480153	Piston	1	
4	1682364	Head	2	
5	1120387	Retainer	2	
6	4565275	Spacer	2	
7	3760141	Ring, Retaining	2	
8	Kit	Seal, Wiper	2	
9	Kit	Seal, Rod	2	
10	Kit	O-Ring	2	
11	Kit	Ring, Wear	2	
12	Kit	T-Seal	1	
13	Kit	O-Ring	1	
14		Follower, Cam Options:	1	
	3860054	Prior to S/N 31331	1	
	3860076	S/N 31331 to S/N 37950	1	
	3860080	S/N 37950 to Present	1	
15	3321802	Nut, Jam 1/2"-20NF	1	
16	0100035	Loctite #222	A/R	
17	Not Used			
18	2220472	Fitting, 90°	1	
19	2220515	Fitting, Cap	2	
20	2180699	Fitting, Modified	1	
21	2180394	Orifice	1	

	2901178	Seal Kit (Includes Items 8-13)	1	

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FIGURE 5-9. TELESCOPE CYLINDER ASSEMBLIES - MODELS 35electric, 40electric AND 45electric



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FIGURE 5-9. TELESCOPE CYLINDER ASSEMBLIES - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		TELESCOPE CYLINDER ASSEMBLIES		
	1682947	45electric	Ref.	B/2
	1682887	35electric/40electric	Ref.	E/5
1		Barrel Weldment Options:	1	
	1682948	45electric		
	1682888	35electric/40electric		
2		Rod Weldment Options:	1	
	1682950	45electric		
	1682890	35electric/40electric		
3	3480170	Piston	1	
4	1682892	Head	1	
5	4566027	Spacer, Tube	1	
6	4640807	Counterbalance Valve Assembly (See Items 101-103 for Breakdown)	1	
7	0641512	Bolt 5/16"-18NC x 1 1/2"	4	
8	2220883	Plug, O-Ring	2	
9	3951402	Setscrew 1/4"-20NC x 1/4"	1	
10	3322205	Locknut	1	
11	3760318	Ring, Retaining	1	
12	Kit	Ring, Wear	2	
13	Kit	Seal, Cap	1	
14	Kit	O-Ring	1	
15	Kit	Ring, Wear	1	
16	Kit	O-Ring	1	
17	Kit	Seal, Rod	1	
18	Kit	Wiper	1	
19	0100011	Loctite #242	A/R	
20	Not Used			
21	2220628	Fitting, 90°	2	
22	2220516	Fitting, Cap	2	
23	3340679	Wear Pad Assembly	1	
24	0641604	Bolt 3/8"-16NC x 1/2"	2	
25	4761600	Lockwasher 3/8"	2	
26	0100011	Loctite #242	A/R	

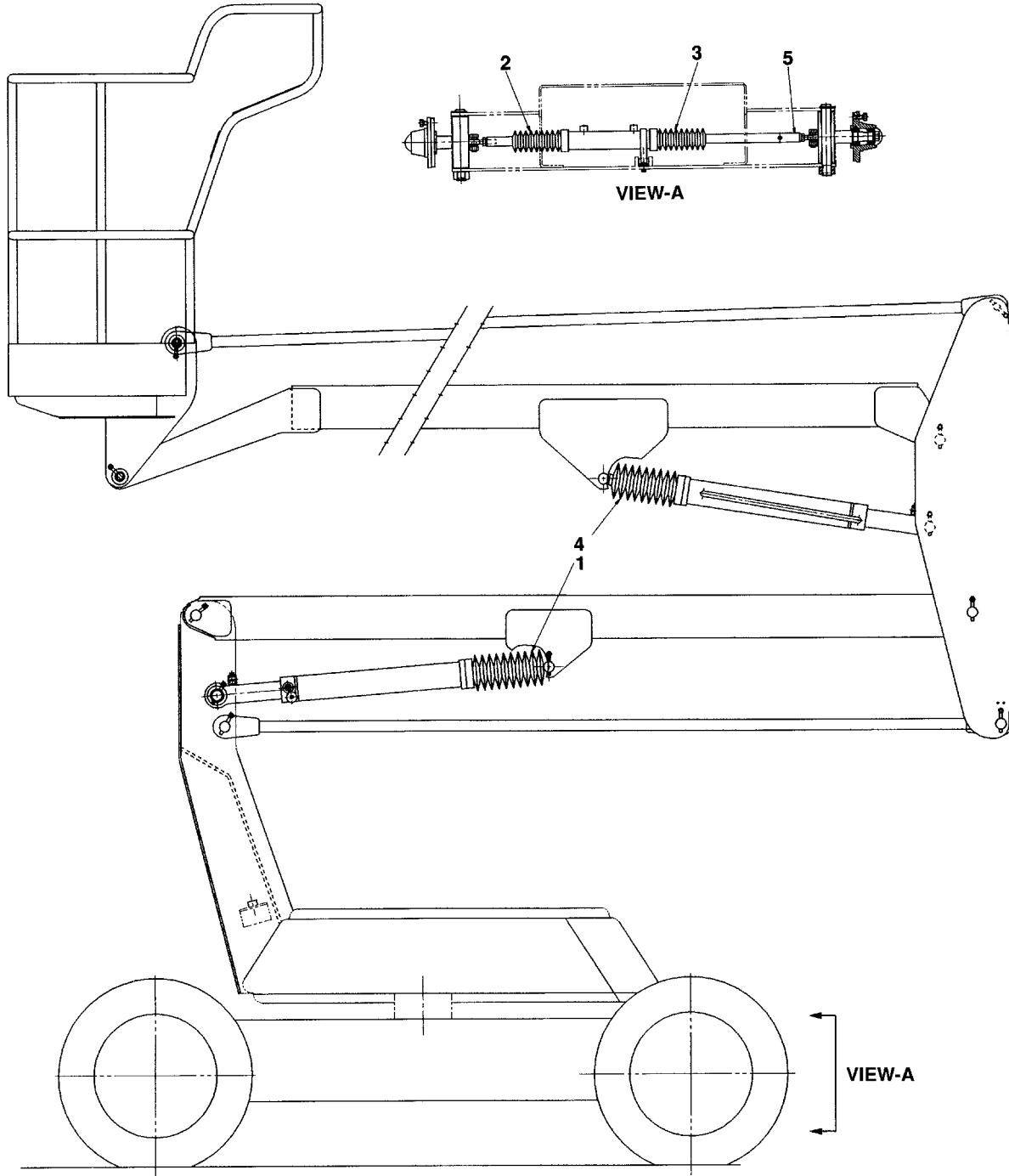
	2901242	Seal Kit (Includes Items 12-18)	1	
	4640807	COUNTERBALANCE VALVE ASSEMBLY	Ref.	B
101	4640771	Cartridge, Counterbalance	1	
102	4640709	Cartridge, Vented Counterbalance	1	
103	3790113	O-Ring (Between Valve and Cylinder Block)	2	

	2900770	Seal Kit (1 Per Cartridge)		

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FIGURE 5-10. CYLINDER BELLOWS INSTALLATION - MODEL 30electric (OPTIONAL)



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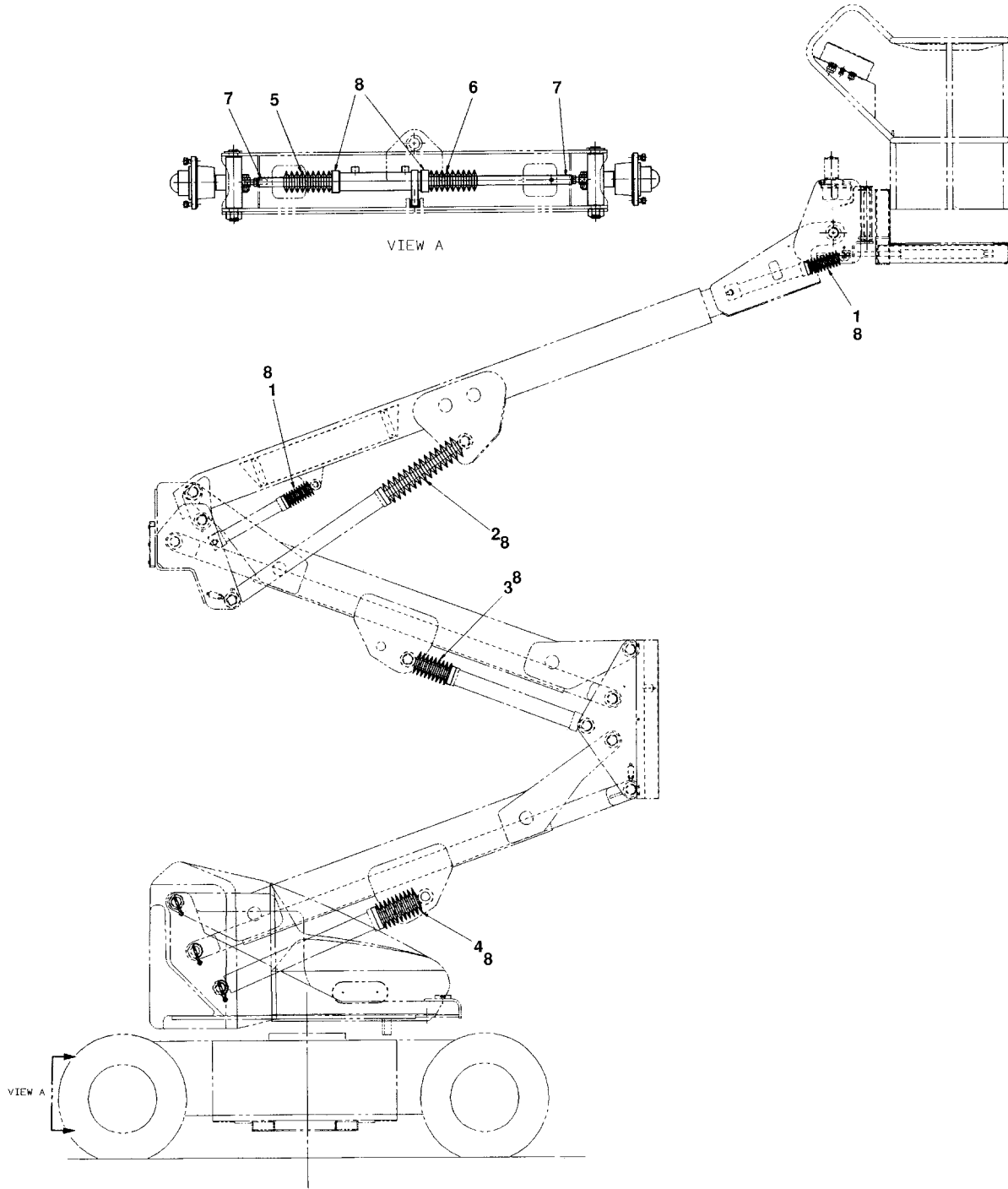
FIGURE 5-10. CYLINDER BELLOWS INSTALLATION - MODEL 30ELECTRIC (OPTIONAL)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0253028	CYLINDER BELLOWS INSTALLATION - MODEL 30ELECTRIC (OPTIONAL)	Ref.	—
1	0460096	Bellow (Lift Cylinder)	2	
2	0460102	Bellow (Steer Cylinder - Right Side)	1	
3	0460103	Bellow (Steer Cylinder - Left Side)	1	
4	1320037	Clamp	4	
5	1320033	Clamp	2	

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FIGURE 5-11. CYLINDER BELLOWS INSTALLATION - MODELS 35electric, 40electric AND 45electric (OPTIONAL)



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FIGURE 5-11. CYLINDER BELLOWS INSTALLATION - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (OPTIONAL)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0254851	OPTIONAL CYLINDER BELLOWS INSTALLATION - MODEL 45electric	Ref.	A
	0254028	OPTIONAL CYLINDER BELLOWS INSTALLATION - MODEL 40electric	Ref.	A
	0254850	OPTIONAL CYLINDER BELLOWS INSTALLATION - MODEL 35electric	Ref.	A
1	0460110	Bellows, Cylinders (Slave and Master Cylinders)	2	
2	0460111	Bellows, Cylinders (Upper Lift Cylinder) (Prior to S/N 29899)	1	
	0460115	Bellows, Cylinders (Upper Lift Cylinder) (S/N 29899 to Present)	1	
3		Bellows, Cylinders (Mid Lift Cylinder) Options:	1	
	0460113	45electric		
	0460112	40electric		
	Not Required	35electric		
4		Bellows, Cylinders (Tower Lift Cylinder) Options:	1	
	0460114	45electric		
	0460113	40electric		
	0460113	35electric		
5	0460102	Bellows, Cylinders (Steer Cylinder - Right Side)	1	
6	0460103	Bellows, Cylinders (Steer Cylinder - Left Side)	1	
7	1320033	Clamp	2	
8	1320037	Clamp	A/R	

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SECTION 5 CYLINDER

FIGURE 5-11. CYLINDER BELLOWS INSTALLATION - MODELS 35ELECTRIC, 40ELECTRIC AND 45ELECTRIC (OPTIONAL) (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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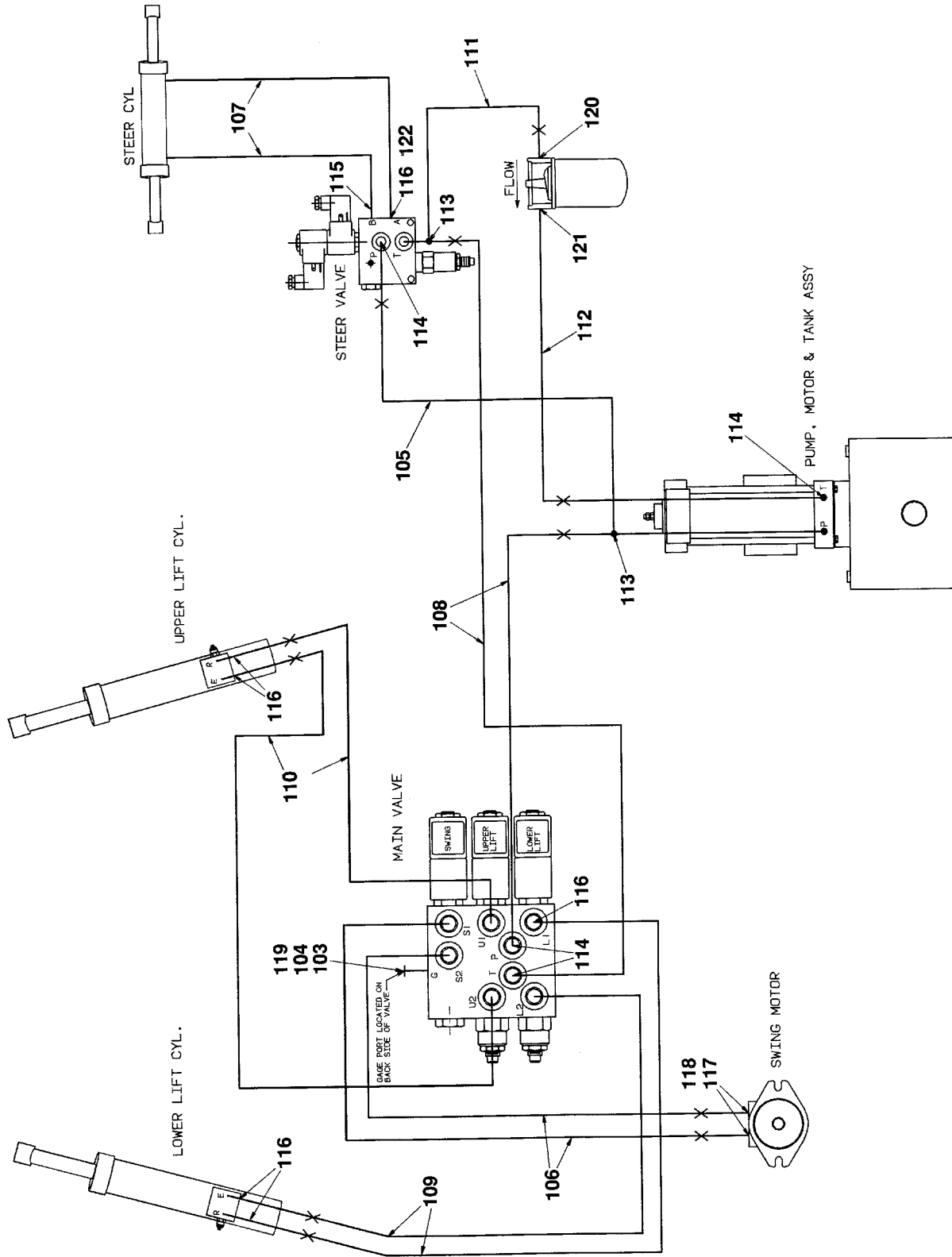
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FIGURE	DESCRIPTION	
6-1	<p>FIGURE 6-1. HYDRAULICS DIAGRAM LIST Note: Items with asterisk (*) indicate hydraulic diagrams shown in this manual. Information on diagrams not shown is available from the JLG Service/Parts Departments.</p>	
PART NO.		
2791990*	Standard Hydraulic Diagram - 30electric	
2792142*	Standard Hydraulic Diagram - 35electric	
2792543*	W/Fire Resistant Hydraulic Oil Hydraulic Diagram - 35electric	
2792017*	Standard Hydraulic Diagram - 40electric	
2792144*	Standard Hydraulic Diagram - 45electric	
2792334	Standard Hydraulic Diagram - 45electric (S/N 33862 Only)	
0257428	Simultaneous Drive/Lift/Steer Hydraulic Diagram- 35electric (Prior to S/N35014)	
0258211	Simultaneous Drive/Lift/Steer Hydraulic Diagram - 35electric (S/N 35014 to Present)	
0257429	Simultaneous Drive/Lift/Steer Hydraulic Diagram-40/45electric (Prior to S/N35014)	
0258212	Simultaneous Drive/Lift/Steer Hydraulic Diagram-40/45electric (S/N35014 to Present)	
2791887	Hydraulic Schematic - 30electric	
2792141	Hydraulic Schematic - 35electric	
2792012	Hydraulic Schematic - 40electric AND 45electric	

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FIGURE 6-2. HYDRAULIC DIAGRAM - 30electric



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FIGURE 6-2. HYDRAULIC DIAGRAM - 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	2791990	HYDRAULIC DIAGRAM - 30ELECTRIC	Ref.	B
101	Not Used			
102	Not Used			
103	2220428	Fitting, Quick Disconnect	1	
104	2220429	Cap, Dust	1	
105	2752484	Hose	1	
106	2752453	Hose	2	
107	2752443	Hose	2	
108	2751473	Hose	2	
109	2752454	Hose	2	
110	2752455	Hose	2	
111	2752485	Hose	1	
112	2752486	Hose	1	
113	2220606	Fitting, Tee	2	
114	2220371	Fitting, Straight	4	
115	2220472	Fitting, 90°	1	
116	2220582	Fitting, Straight	11	
117	2220497	Fitting, Straight	2	
118	2220609	Fitting, Reducer	2	
119	2220873	Fitting	1	
120	2220492	Fitting	1	
121	2220874	Fitting, 90°	1	
122	2220654	Fitting, 90°	1	
123	0100020	Sealant, Thread (Not Shown)	A/R	

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FIGURE 6-3. HYDRAULIC DIAGRAM - 35ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	2792142	HYDRAULIC DIAGRAM - 35ELECTRIC	Ref.	E/7
	2792546	HYDRAULIC DIAGRAM (W/FIRE RESISTANT HYDRAULIC OIL) - 35ELECTRIC	Ref.	A/1
1	2220606	Fitting, Tee	2	
2	2752484	Hose	1	
3	2752487	Hose	1	
4	2752471	Hose	1	
5		Fitting Options:	2	
	2220874	Fitting, 90° (Standard Machines)		
	2220366	Fitting, Straight (W/Fire Resistant Hydraulic Oil)		
6		Fitting Options:	A/R	
	Not Required	Standard Machines	0	
	2220619	Fitting, Reducer (W/Fire Resistant Hydraulic Oil)	2	
7	2220371	Fitting, Straight	4	
8	2220603	Fitting, Straight	8	
9	Not Used			
10	2752489	Hose	1	
11	2752611	Hose	1	
12	2752446	Hose	2	
13	2220582	Fitting, Straight	2	
14	2220415	Fitting, Straight	4	
15	2752459	Hose	2	
16	2220497	Fitting, Straight	2	
17	2220609	Fitting, Reducer	2	
18	2220873	Fitting, Pipe	1	
19	2220428	Fitting, Quick Disconnect	3	
20	2220429	Cap, Dust	3	
21	2752623	Hose	2	
22	2220606	Fitting, Tee	2	
23	2752627	Hose	2	
24	2752580	Hose	2	
25	2220472	Fitting, 90°	6	
26	2752624	Hose	2	
27	2752583	Hose	2	
28	2220504	Fitting, Tee	2	
29	2753005	Hose	2	
30	2220727	Fitting, Pipe	2	
31	2220684	Fitting, Tee	2	
32	2752435	Hose	1	
33	2752573	Hose	1	
34	2752574	Hose	1	
35	2752575	Hose	1	
36	4100026	Sleeve, Nylon	3	
37	1702397	Tags, Hose (Not Shown)	1	
38	2220507	Fitting, 90°	2	
39	2220584	Fitting, Tee	2	

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FIGURE 6-3. HYDRAULIC DIAGRAM - 35ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
40	2220935	Fitting, Straight Options: Prior to S/N 47049	2	
	2221020	S/N 47049 to Present		
41	2752447	Hose	2	
42	2220677	Fitting, 45°	2	

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FIGURE 6-3. HYDRAULIC DIAGRAM - 35ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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FIGURE 6-4. HYDRAULIC DIAGRAM - 40 ELECTRIC AND 45 ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		HYDRAULIC DIAGRAM		
	2792017	40electric	Ref.	14/L
	2792144	45electric	Ref.	8/H
1	2220606	Fitting, Tee	4	
2	2752484	Hose	1	
3	2752487	Hose	1	
4	2752471	Hose	1	
5	2752488	Hose	1	
6	2220603	Fitting, Straight	8	
7	2220371	Fitting, Straight	2	
8	2220874	Fitting, 90°	2	
9	2220473	Fitting, 90°	4	
10	Not Used			
11	2752489	Hose	1	
12	2752611	Hose	1	
13	2220657	Fitting, 45°	5	
14	2752446	Hose	2	
15	2220582	Fitting, Straight	3	
16	2220466	Fitting, 90°	1	
17	2752433	Hose	2	
18	2220415	Fitting, Straight	1	
19	2220502	Fitting, 45°	4	
20	2752459	Hose	2	
21	2220497	Fitting, Straight	2	
22	2220609	Fitting, Reducer	6	
23	2220873	Fitting, Pipe	1	
24	2220428	Fitting, Quick Disconnect	3	
25	2220429	Cap, Dust	3	
26		Hose	2	
	2752619	40electric		
	2753050	45electric		
27	2220899	Fitting, Tee	4	
28	2752620	Hose	1	
29	2752580	Hose	2	
30	2220472	Fitting, 90°	8	
31	2752614	Hose	1	
32	2220635	Fitting, Tee	3	
33		Hose	1	
	2753115	40electric		
	2753113	45electric		
34		Hose	1	
	2753116	40electric		
	2753114	45electric		
35	2752462	Hose	1	
36		Hose	2	
	2752621	40electric		
	2752626	45electric		

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FIGURE 6-4. HYDRAULIC DIAGRAM - 40 ELECTRIC AND 45 ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
37		Hose	2	
	2752579	40electric		
	2752585	45electric		
38	2220504	Fitting, Tee	2	
39		Hose	2	
	2753005	40electric		
	2752572	45electric		
40	2220727	Fitting, Pipe	2	
41	2220684	Fitting, Tee	2	
42	2752435	Hose	1	
43	2752573	Hose	1	
44	2220677	Fitting, 45°	2	
45	2752574	Hose	1	
46	Not Used			
47	Not Used			
48	Not Used			
49	2752575	Hose	1	
50	2752581	Hose	1	
51	4566188	Tube	1	
52		Tube	1	
	4566187	40electric		
	4566623	45electric		
53	4100026	Sleeve, Nylon	2	
54	2752438	Hose	1	
55	1702124	Tags, Hose (Not Shown)	1	
56		Fitting, Straight Options:	2	
	2220935	Prior to S/N 47049		
	2221020	S/N 47049 to Present		
57	2220584	Fitting, Tee	2	
58	2220934	Fitting, Tee	1	
59	4640861	Bleeder Kit	1	
60		Hose	1	
	2752441	40electric		
	2752440	45electric		
61	2220605	Fitting, Tee	1	
62	2752584	Hose	1	
63	0100020	Sealant (Not Shown)	A/R	

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FIGURE 7-1. ELECTRICAL COMPONENTS AND DIAGRAMS LIST - 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		ELECTRICAL COMPONENTS AND DIAGRAMS LIST - 30ELECTRIC Note: Numbered colored wiring starts with S/ N36544. Items with * indicate electrical drawing shown in this manual. All other electrical drawings are available from the JLG Service Department upon request.	Ref.	
	0254745	BEACON LIGHT ELECTRICAL DIAGRAM	Ref.	A
	4932577	HORIZONTAL DRIVE CUT-OUT ELECTRICAL DIAGRAM	Ref.	—
	3740087	Relay	1	
	4120027	Base, Relay	1	
	3740063	Spring, Relay	1	
	4921442	Diode Harness	1	A
	4932617	LOW VOLTAGE CUTOUT ELECTRICAL DIAGRAM	Ref.	A
		MOTION ALARM ELECTRICAL DIAGRAMS		
	2901212/1281811	Prior to S/N36544	Ref.	—
	2901560	S/N 36544 to Present	Ref.	1/A
		PLATFORM ELECTRICAL DIAGRAMS		
	4932674	Prior to S/N 33441)	Ref.	A
	4932936	S/N 33441 to S/N36544	Ref.	—
	4933002	S/N 36544 to Present	Ref.	B/2
	4932927	PLATFORM OVERLOAD ELECTRICAL DIAGRAM (WITH PRESSURE SWITCH UNDER BASKET)	Ref.	2
	2901251/1281821	PLATFORM WORKLIGHTS ELECTRICAL DIAGRAM (PRIOR TO S/N 36544)	Ref.	B/C
	2901561/1282857	PLATFORM WORKLIGHTS ELECTRICAL DIAGRAM (S/N 36544 TO PRESENT)	Ref.	2/B
		SIMULTANEOUS DRIVE/LIFT/STEER ELECTRICAL DIAGRAM (NON-UL MODELS)		
	0257429	Prior to S/N 36544	Ref	B/2
	0258210	S/N 36544 to Present	Ref	1
	4921980	Harness Assembly (Prior to S/N36544)	1	
	4922041	Harness Assembly (S/N36544 to Present)	1	1/B
	3990001	Diode - 3.5 Amp	10	
	3740063	Spring, Relay	2	
	4120027	Socket, Relay	2	
	3740087	Relay, 48 VDC	2	
		STANDARD ELECTRICAL DIAGRAM		
	4932675	Prior to S/N36544	Ref.	A
	4933003	S/N36544 to Present	Ref.	2/C

SECTION 7 ELECTRICAL

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		STANDARD ELECTRICAL SCHEMATICS		
	1870031*	Prior to S/N36544	Ref.	B
	1870067*	S/N36544 to Present	Ref.	B
		TILT ALARM ELECTRICAL DIAGRAM		
	4932681	Prior to S/N36544	Ref.	1
	4933014	S/N36544 to Present	Ref.	1
	4120027	Base, Relay	1	
	3740087	Relay - DPDT	1	
	3740063	Spring, Relay	1	
	0140030	Alarm	1	

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FIGURE 7-2. ELECTRICAL COMPONENTS AND DIAGRAMS LIST - 35ELECTRIC/40ELECTRIC/45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		ELECTRICAL COMPONENTS AND DIAGRAMS LIST - 35ELECTRIC/40ELECTRIC/45ELECTRIC Note: Numbered colored wiring starts with S/N 36648. Items with * indicate electrical drawing shown in this manual. All other electrical drawings are available from the JLG Service Department upon request.	Ref.	
	0254544/1282417	BEACON ELECTRICAL DIAGRAMS 40electric & 45electric	Ref.	7/G
	0255611/1282417	35electric	Ref.	3/G
		CUTOUT ELECTRICAL DIAGRAMS		
		Drive Cutout Above Elevation		
	4932683/1282199	45electric Prior to S/N36648	Ref.	1
	4933012/1282820	45electric S/N36648 to Present	Ref.	1
	3740087	Relay	1	
	4120027	Base, Relay	1	
	3740063	Spring, Relay	1	
	3990001	Diode - 3.5 Amp	1	
		Drive/Tilt Cutout Above Elevation		
	4932682/1282199	45electric Prior to S/N36648	Ref.	1
	4933015/1282820	45electric S/N36648 to Present	Ref.	1
		Drive Cutout Eight Meter		
	4932686/1282199	45electric Prior to S/N36648	Ref.	1
	4933013/1282820	45electric S/N36648 to Present	Ref.	1
	3740087	Relay	1	
	4120027	Base, Relay	1	
	3740063	Spring, Relay	1	
	3990001	Diode - 3.5 Amp	1	
	4932927	Platform Overload Cutout (Switch under Plat)	Ref.	—/2
	1060016	Cable, Electrical - 16/3	6ft/1.8m	
	3990010	Diode - 6 Amp	2	
		Platform Overload Cutout (Switch at Slave Cyl)		
	4932684/1282199	Prior to S/N36648 (With Override)	Ref.	1
	4932685/1282199	Prior to S/N36648 (Without Override)	Ref.	1
	4933010/1282820	S/N36648 to Present (With Override)	Ref.	1
	4933011/1282820	S/N36648 to Present (Without Override)	Ref.	1
	3740091	Relay	1	
	4120014	Base, Relay	1	
	4160114	Spring, Relay	1	
	3990001	Diode - 3.5 Amp	1	
	3990010	Diode - 6 Amp	1	

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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		LIGHTS ELECTRICAL DIAGRAM		
	4932935	Headlights And Taillights	Ref.	A/1
	4932970	Headlights And Back-up Lights	Ref.	A/2
	4360199	Switch, Toggle SPST	1	
	3740087	Relay, 48V 50/60 HZ	A/R	
	4120027	Socket, Relay	A/R	
	3740063	Relay, Spring	A/R	
	3990001	Semiconductor, Diode	A/R	
	4360069	Circuit Breaker	1	
	0257410	LOW BATTERY LIFT INTERRUPT ELECTRICAL GRAM DIAGRAM (40/45electric - UL MODELS)	Ref.	B/3
	0259631	LOW BATTERY LIFT INTERRUPT ELECTRICAL GRAM DIAGRAM (35electric - UL MODELS) (S/N 47049 TO PRESENT)	Ref.	A/2
	2420049	Gauge, Battery Capacity with Relay	1	
	3252537	Nameplate - Low Voltage Interrupt	1	
	4120027	Socket, Relay	1	
	3740063	Relay, Spring	2	
	3740087	Relay 48V 50/60 HZ	1	
		MOTION ALARM ELECTRICAL COMPONENTS (OPTIONAL)		
	2901302	35electric Prior to S/N 36648	Ref.	A
	2901600	35electric S/N 36648 to Present	Ref.	1
	2901249	40/45electric Prior to S/N 36648	Ref.	A
	2901601	40/45electric S/N 36648 to Present	Ref.	1
		PLATFORM ELECTRICAL DIAGRAMS		
	4932659	Prior to S/N 33441	Ref.	C
	4932937	S/N 33441 to S/N36648	Ref.	—
	4932988	S/N 36648 to Present	Ref.	2/B
	4932882	PLATFORM PROXIMITY SWITCHES ELECTRICAL DIAGRAM	Ref.	B/2
	3740087	Relay	1	
	4120027	Base, Relay	1	
	3740063	Spring, Relay	1	
	3990001	Diode - 3.5 Amp	1	
	2901251/1281821	PLATFORM WORKLIGHTS ELECTRICAL DIA- GRAM (PRIOR TO S/N 36648)	Ref.	C/C
	2901561/1282857	PLATFORM WORKLIGHTS ELECTRICAL DIA- GRAM (S/N 36648 TO PRESENT)	Ref.	2/B

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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		SIMULTANEOUS DRIVE/LIFT/STEER ELECTRICAL DIAGRAM (NON-UL MODELS)		
	0257428	35electric Prior to S/N 36648	Ref	B/2
	0258211	35electric S/N 36648 to Present	Ref	A/1
	0257429	40electric/45electric Prior to S/N 36648	Ref	B/2
	0258212	40electric/45electric S/N 36648 to Present	Ref	A/1
		Harness Assembly Options:	1	
	4921980	Prior to S/N 36648		
	4922041	S/N 36648 to Present		1/B
	3990001	Diode - 3.5 Amp	10	
	3740063	Spring, Relay	2	
	4120027	Socket, Relay	2	
	3740087	Relay, 48 VDC	2	
		STANDARD ELECTRICAL DIAGRAM		
	4932660	Prior to S/N36648	Ref.	H
	4932987	S/N36648 to Present	Ref.	2/C
		STANDARD ELECTRICAL SCHEMATIC		
	1870032*	Prior to S/N36648	Ref.	H
	1870066*	S/N36648 to Present	Ref.	B
		TILT ALARM ELECTRICAL DIAGRAM		
	4932628/4932681	Prior to S/N36648	Ref.	1
	4933014	S/N36648 to Present	Ref.	1
	4120027	Base, Relay	1	
	3740087	Relay - DPDT	1	
	3740063	Spring, Relay	1	
	0140030	Alarm	1	
	3990001	Diode - 3.5 Amp	2	

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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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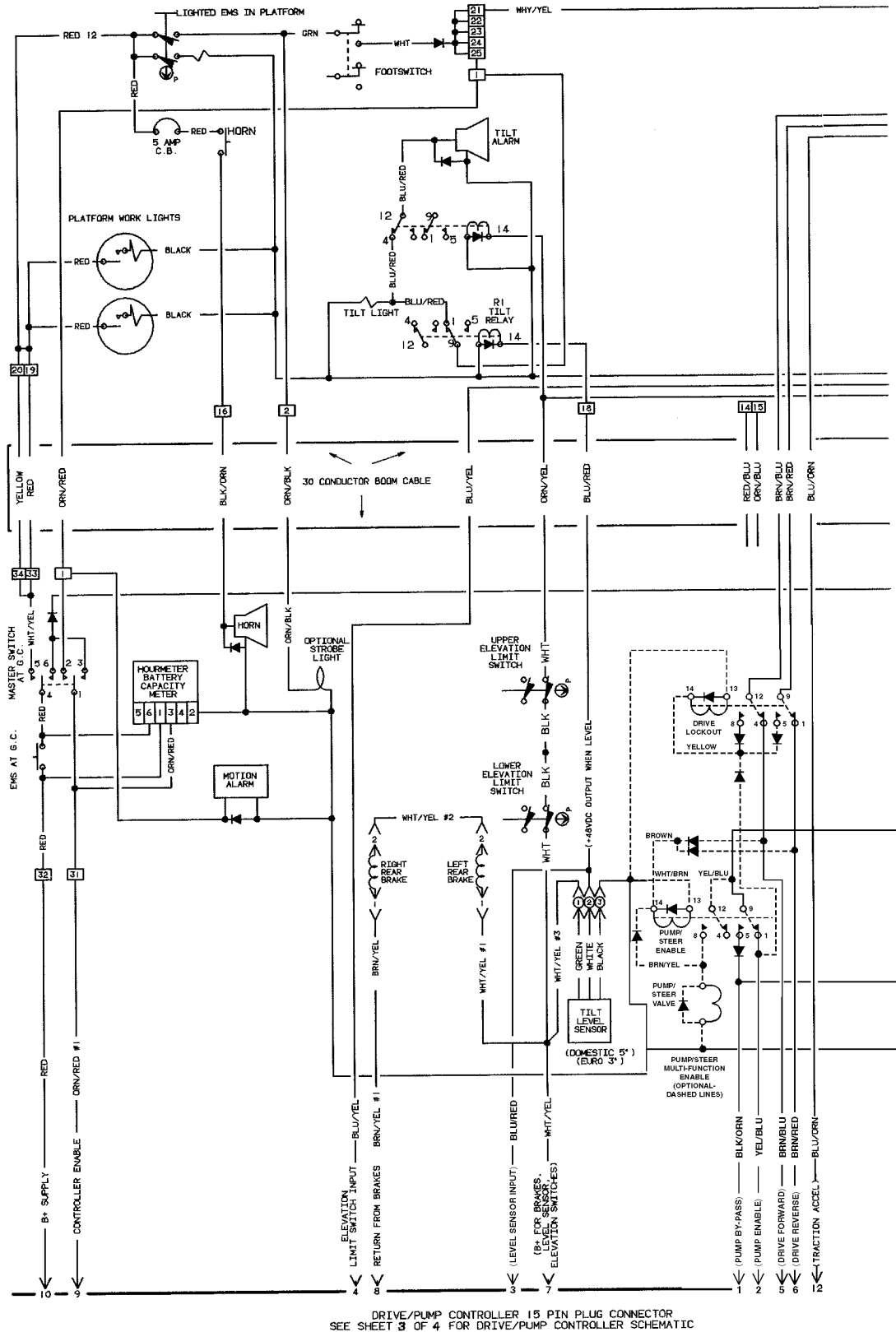
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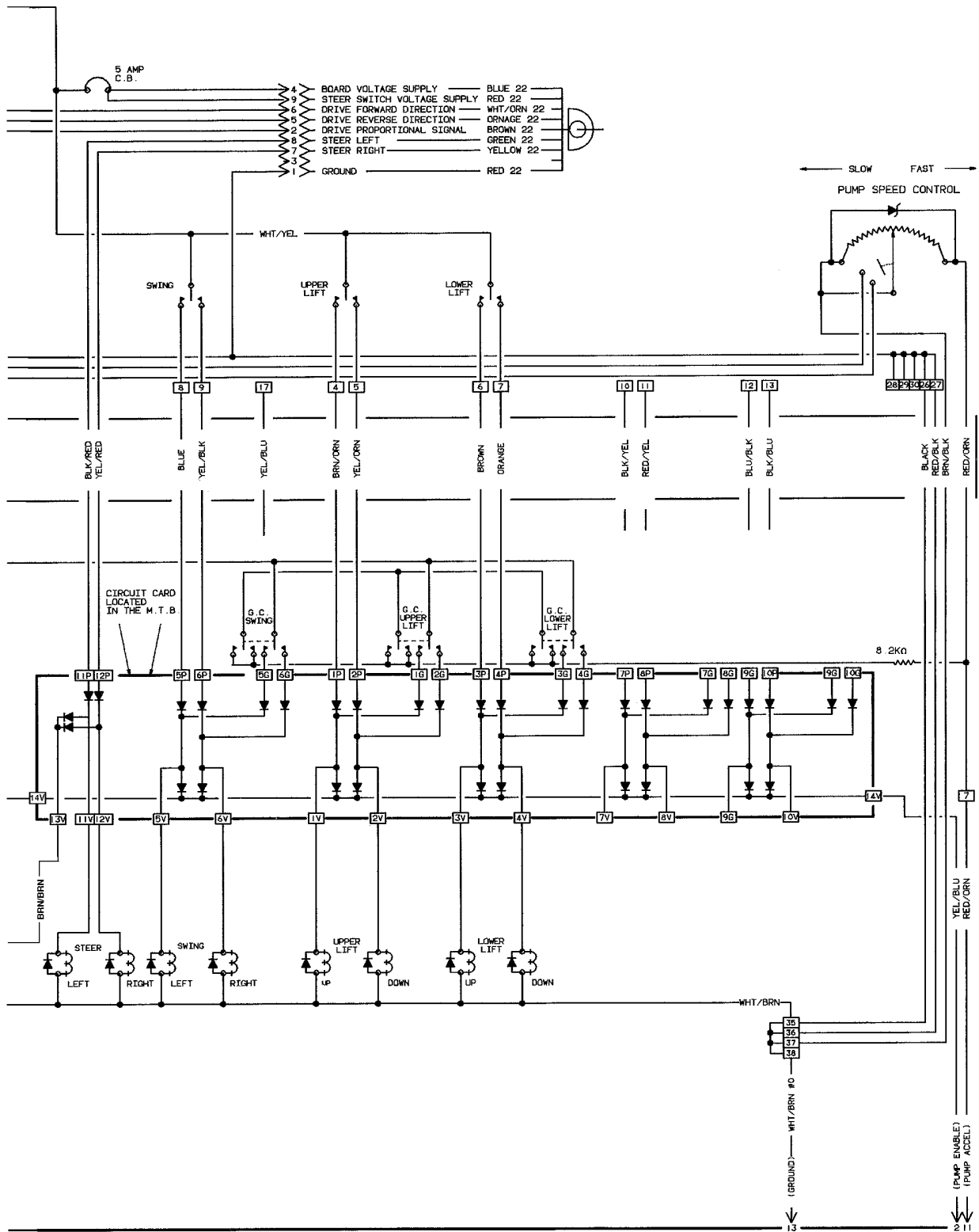
FIGURE 7-3. ELECTRICAL SCHEMATIC - 30electric WITH COLORED WIRE (PRIOR TO S/N 36544) (SHEET 1 OF 4)

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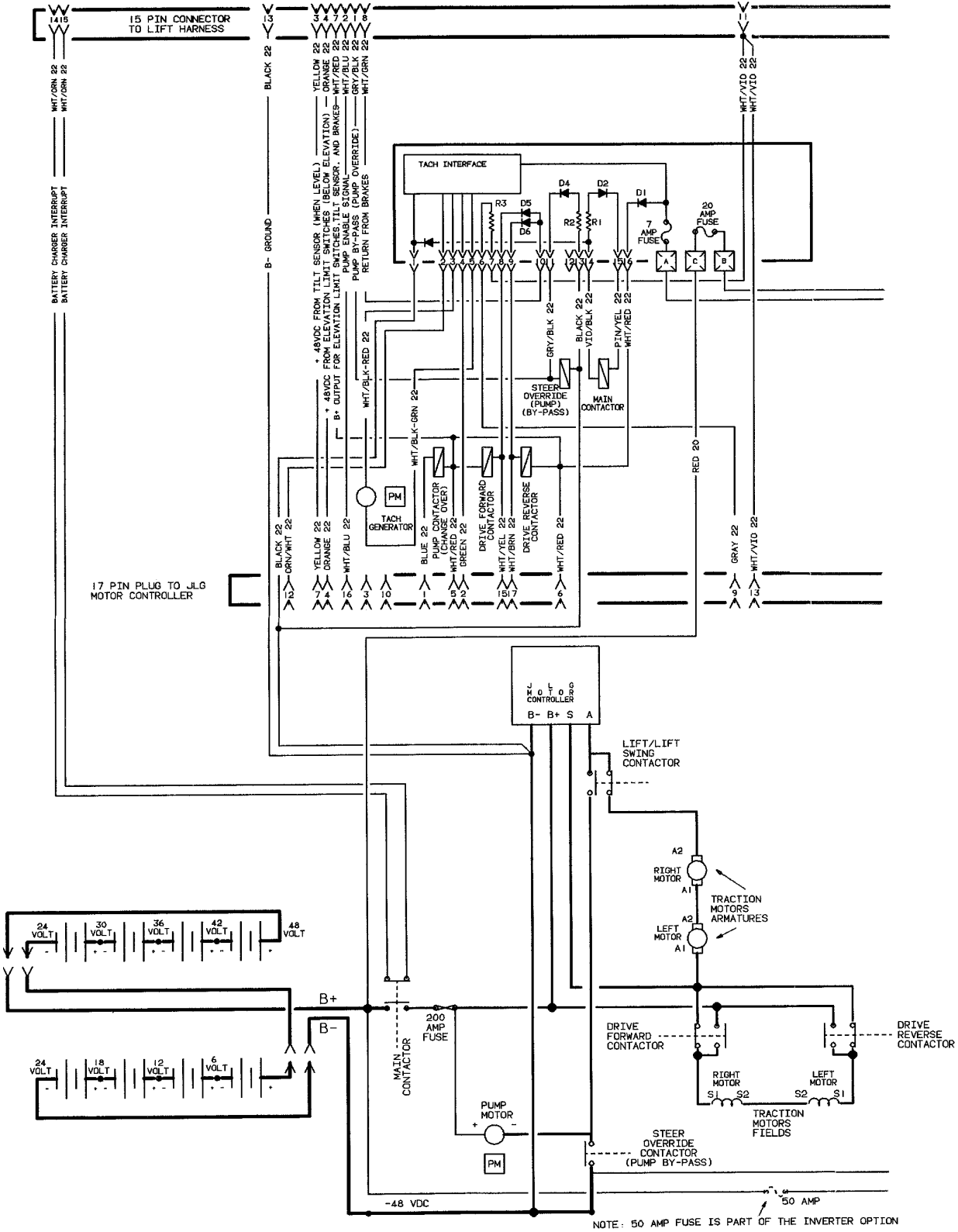
FIGURE 7-3. ELECTRICAL SCHEMATIC - 30electric WITH COLORED WIRE (PRIOR TO S/N 36544) (SHEET 2 OF 4)



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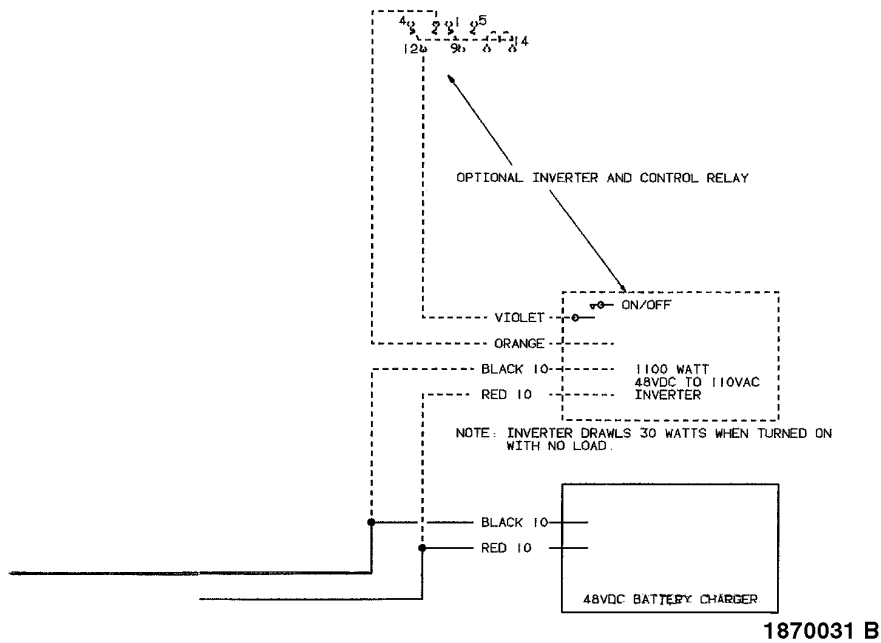
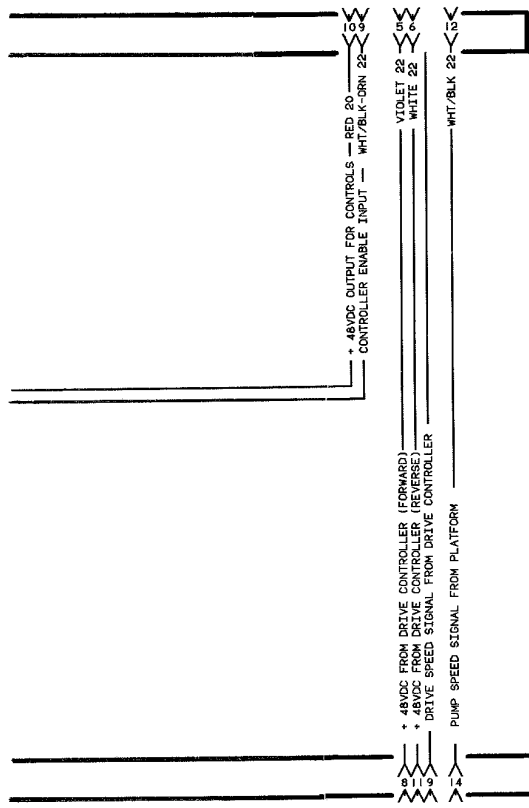
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FIGURE 7-3. ELECTRICAL SCHEMATIC - 30electric WITH COLORED WIRE (PRIOR TO S/N 36544) (SHEET 3 OF 4)



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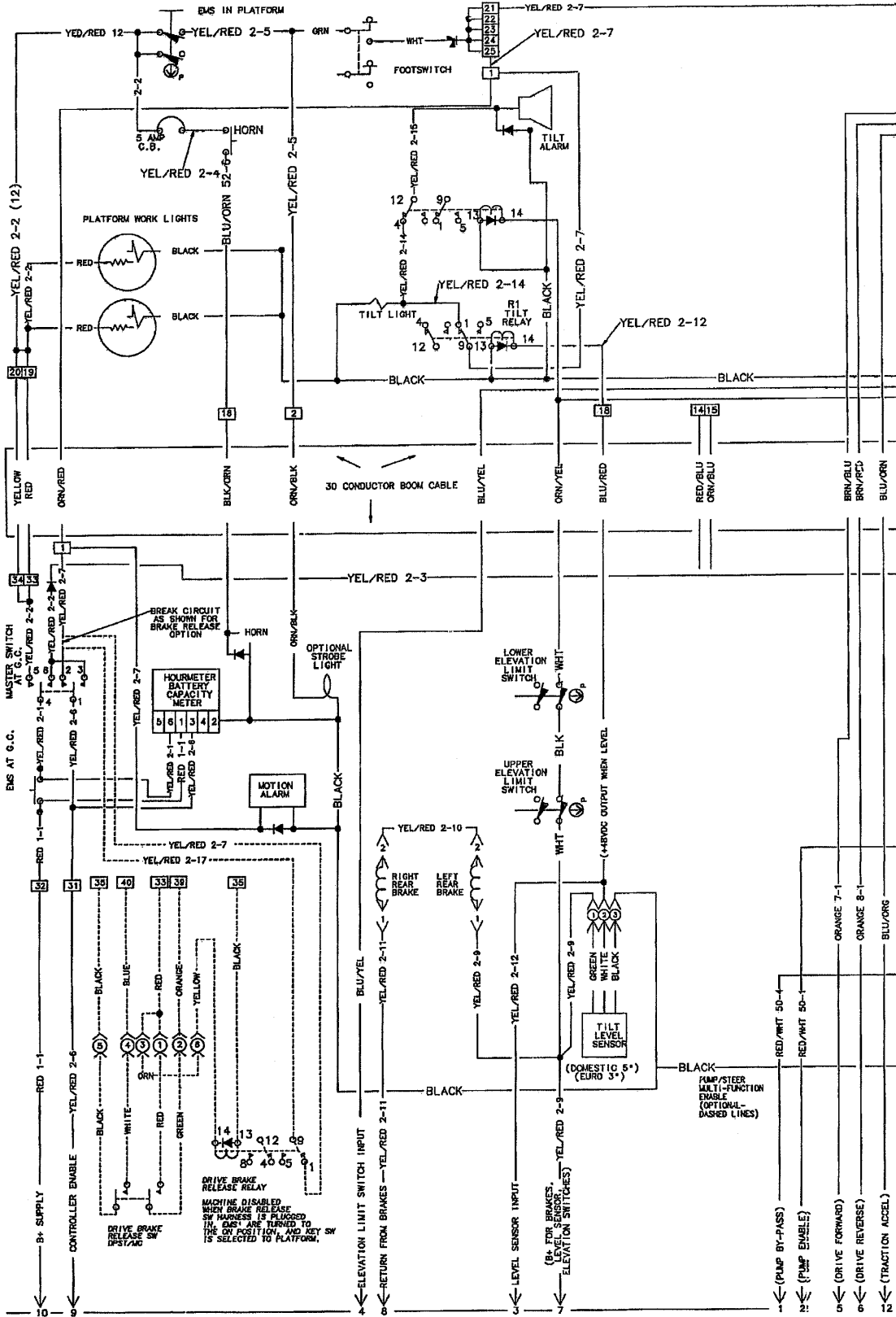
FIGURE 7-3. ELECTRICAL SCHEMATIC - 30electric WITH COLORED WIRE (PRIOR TO S/N 36544) (SHEET 4 OF 4)



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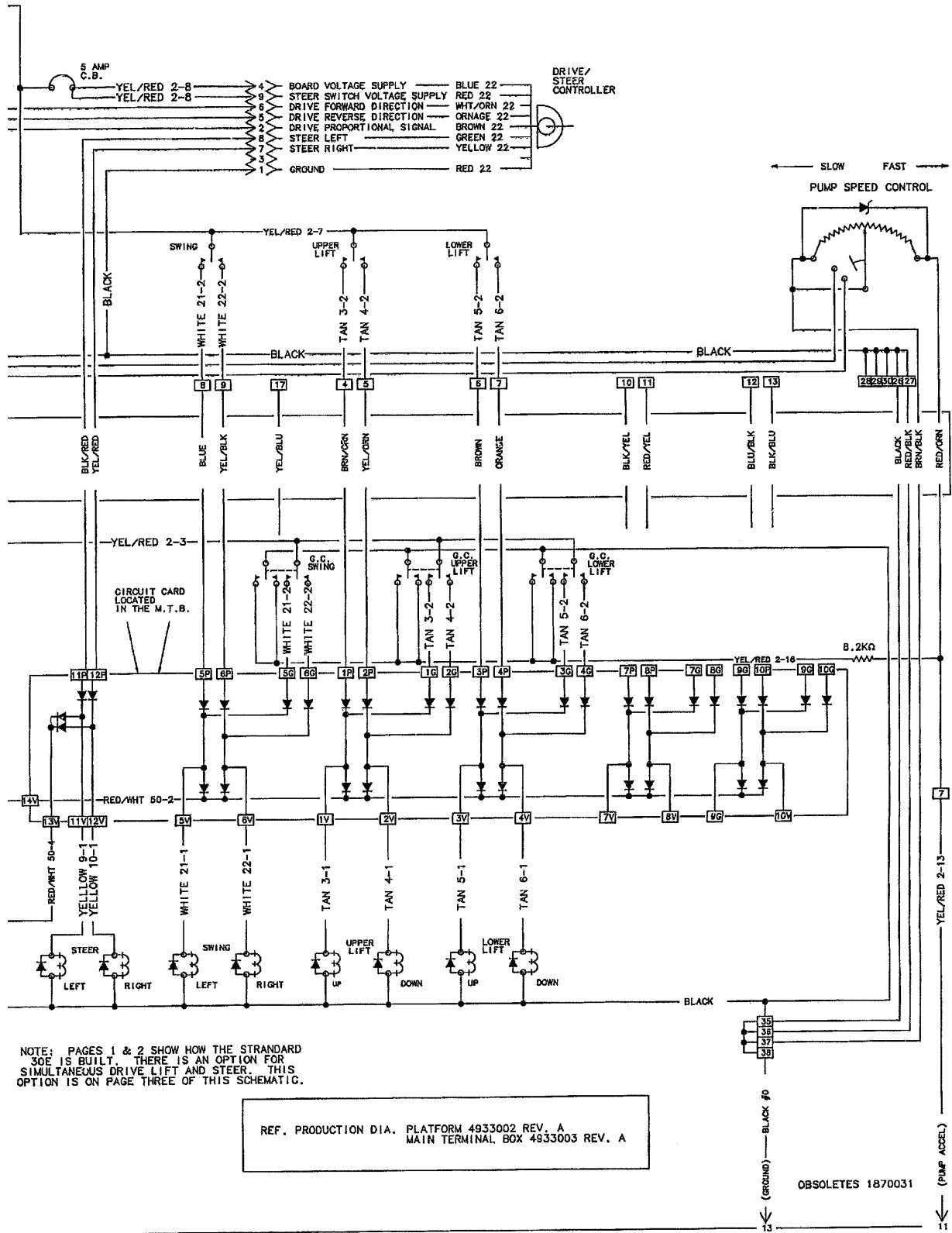
FIGURE 7-4. ELECTRICAL SCHEMATIC - 30electric WITH NUMBERED COLORED WIRE (S/N 36544 TO PRESENT) (SHEET 1 OF 4)



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FIGURE 7-4. ELECTRICAL SCHEMATIC - 30electric WITH NUMBERED COLORED WIRE (S/N 36544 TO PRESENT) (SHEET 2 OF 4)



NOTE: PAGES 1 & 2 SHOW HOW THE STRANDARD 30E IS BUILT. THERE IS AN OPTION FOR SIMULTANEOUS DRIVE LIFT AND STEER. THIS OPTION IS ON PAGE THREE OF THIS SCHEMATIC.

REF. PRODUCTION DIA. PLATFORM 4933002 REV. A
MAIN TERMINAL BOX 4933003 REV. A

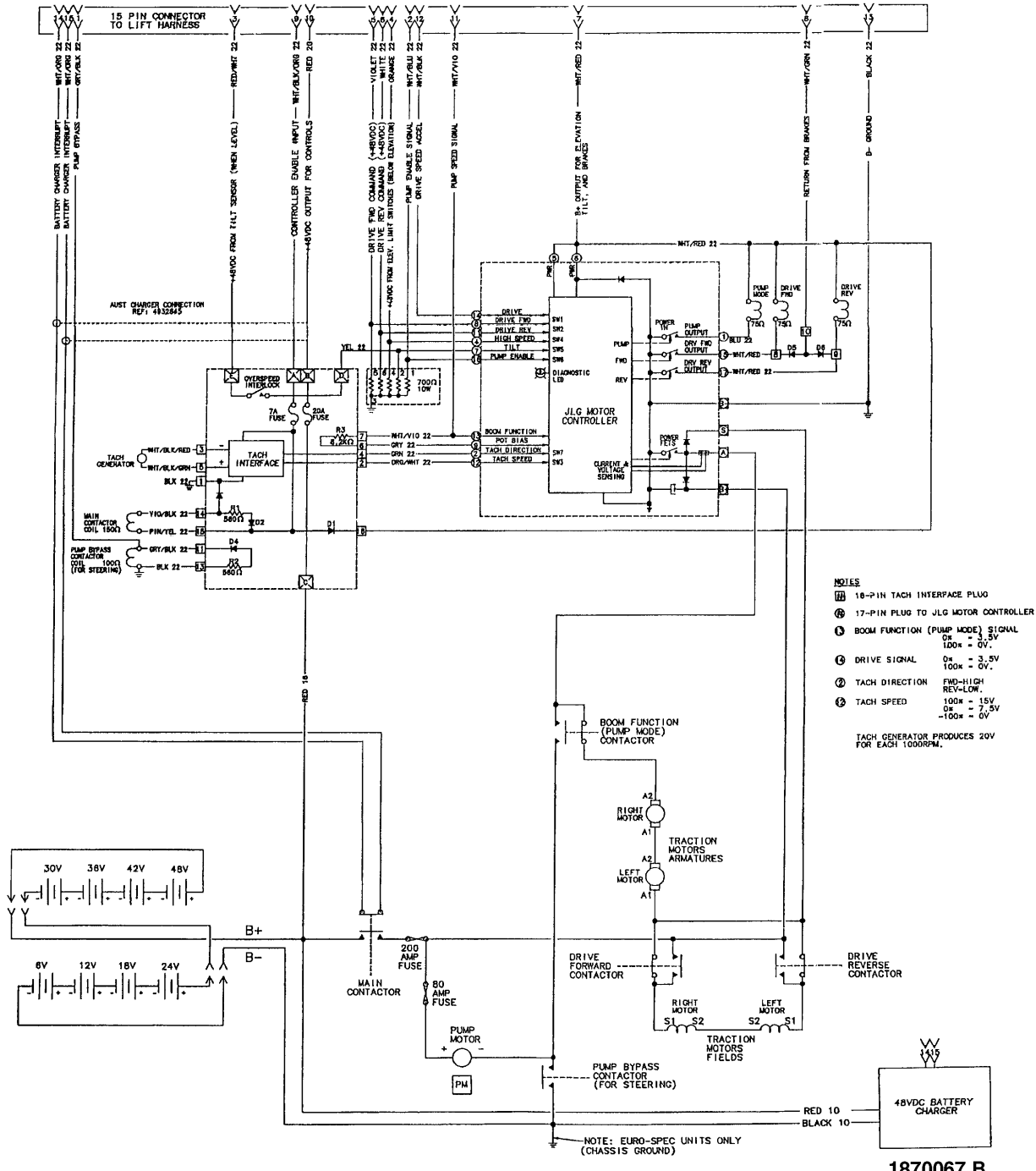
DRIVE/PUMP CONTROLLER 15 PIN PLUG CONNECTOR
E SHEET 2 OF 2 FOR DRIVE/PUMP CONTROLLER SCHEMATIC

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FIGURE 7-4. ELECTRICAL SCHEMATIC - 30electric WITH NUMBERED COLORED WIRE (S/N 36544 TO PRESENT) (SHEET 3 OF 4)



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FIGURE 7-4. ELECTRICAL SCHEMATIC - 30electric WITH NUMBERED COLORED WIRE (S/N 36544 TO PRESENT) (SHEET 4 OF 4)

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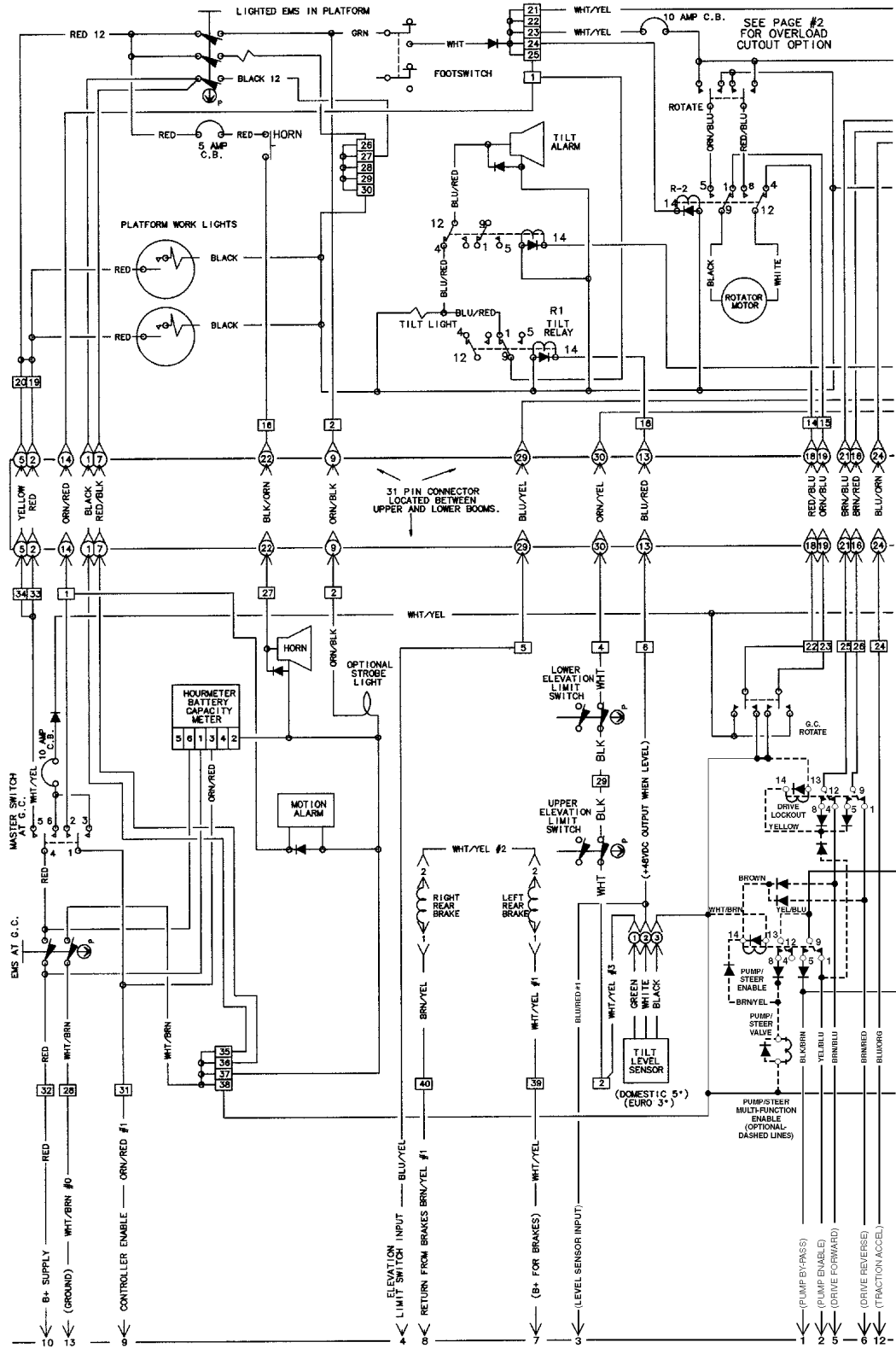
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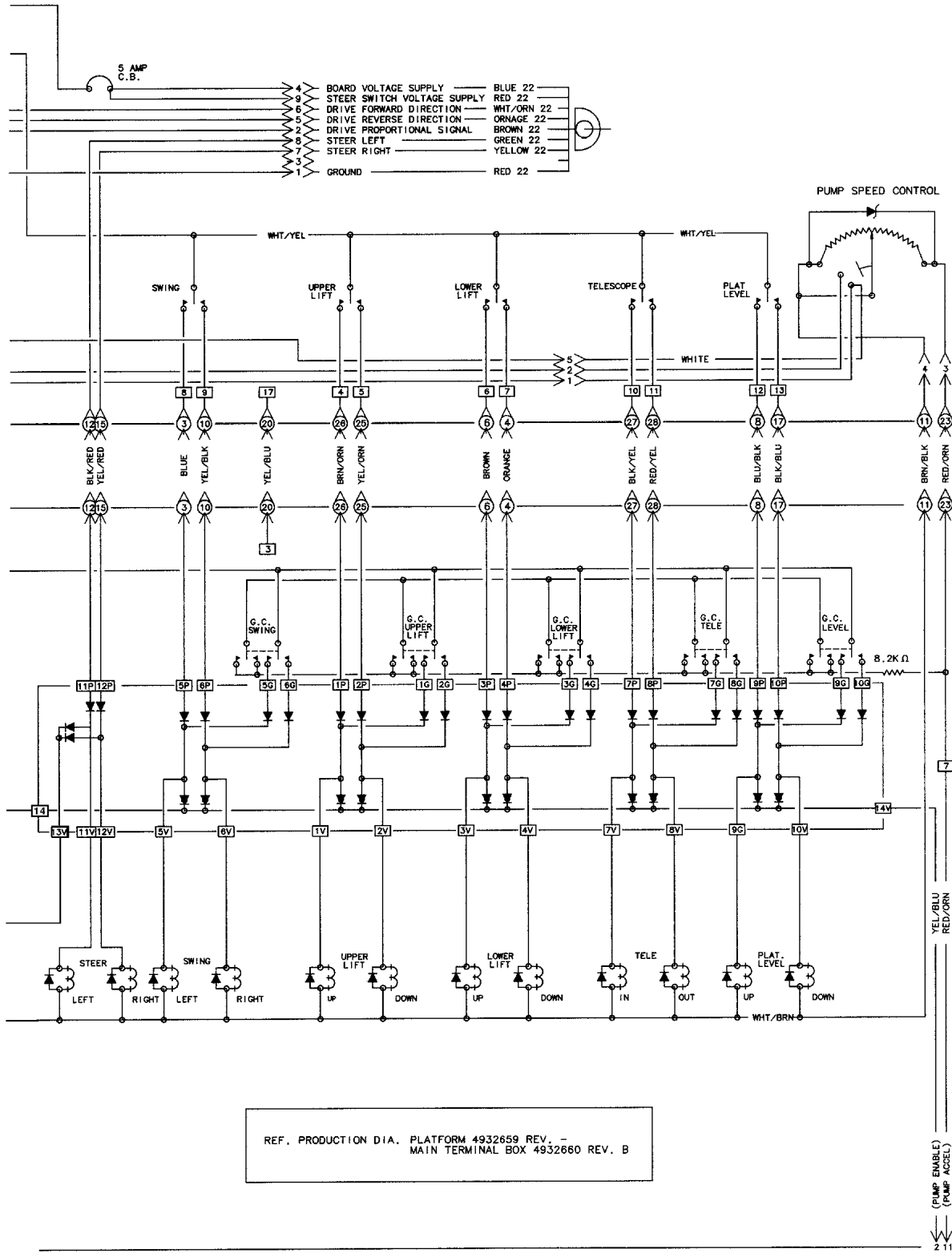
FIGURE 7-5. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH COLORED WIRE (PRIOR TO S/N36648) (SHEET 1 of 4)



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FIGURE 7-5. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH COLORED WIRE (PRIOR TO S/N36648) (SHEET 2 of 4)



REF. PRODUCTION DIA. PLATFORM 4932659 REV. -
MAIN TERMINAL BOX 4932660 REV. B

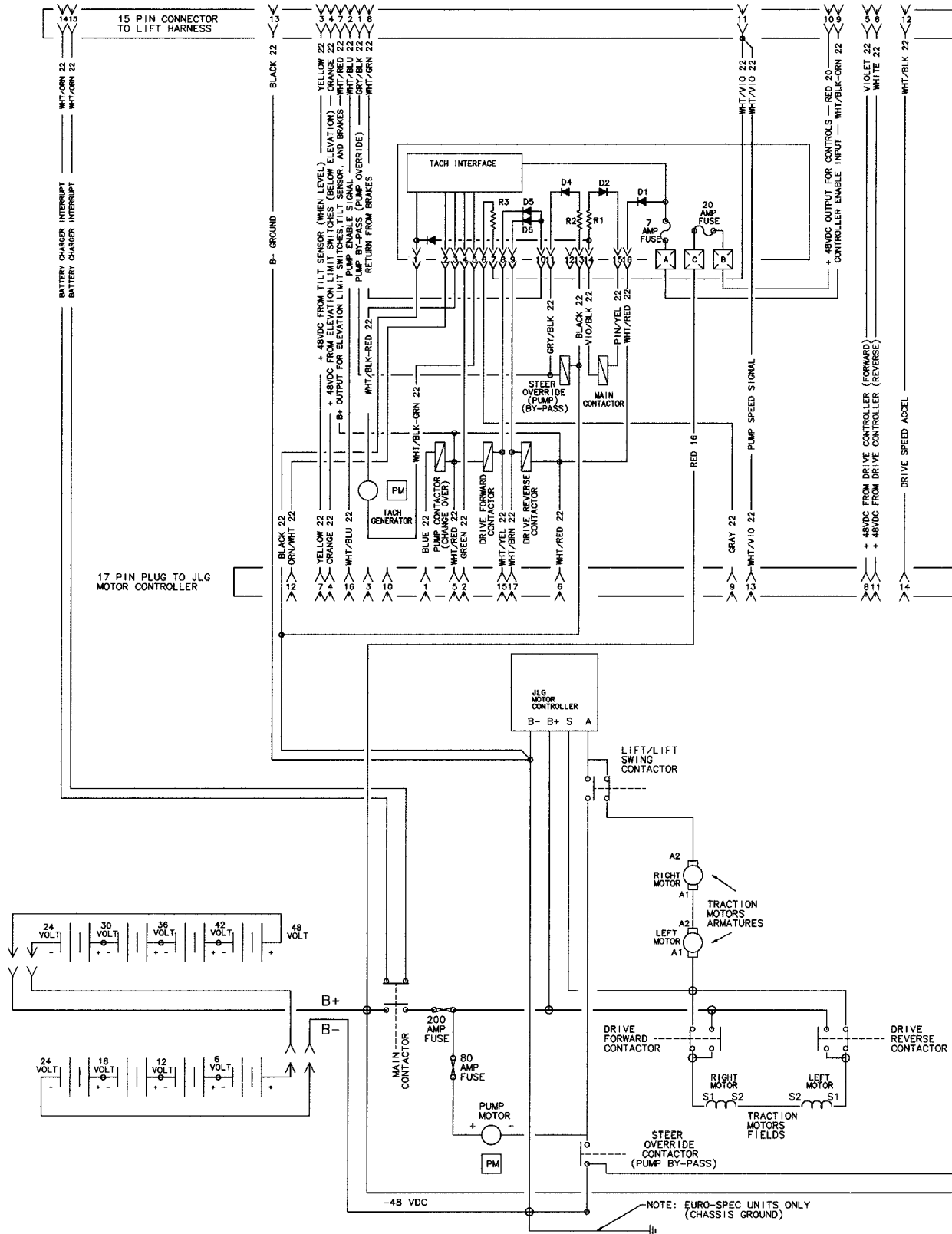
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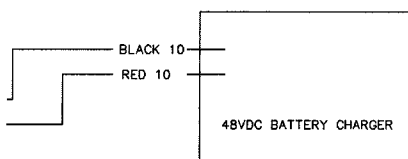
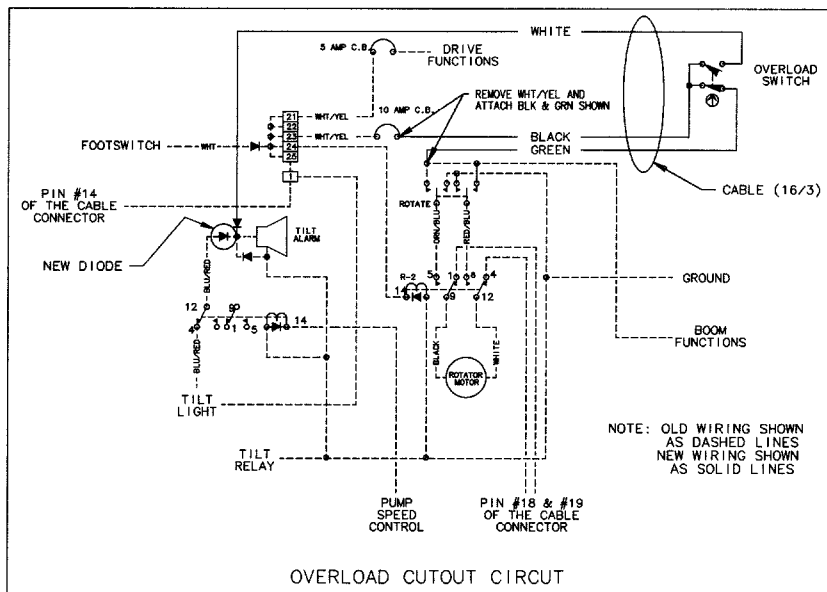
FIGURE 7-5. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH COLORED WIRE (PRIOR TO S/N36648) (SHEET 3 of 4)



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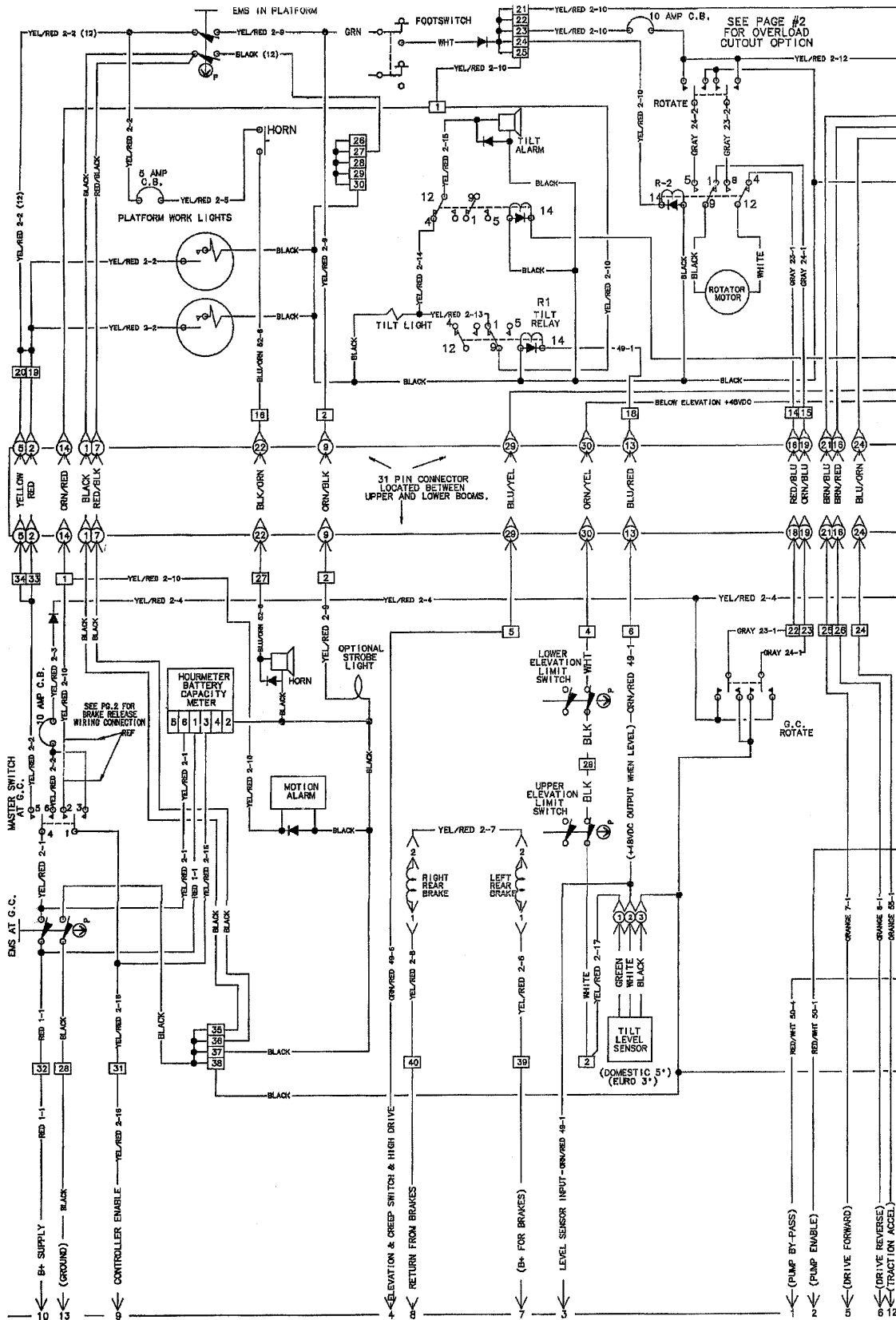
FIGURE 7-5. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH COLORED WIRE (PRIOR TO S/N36648) (SHEET 4 of 4)



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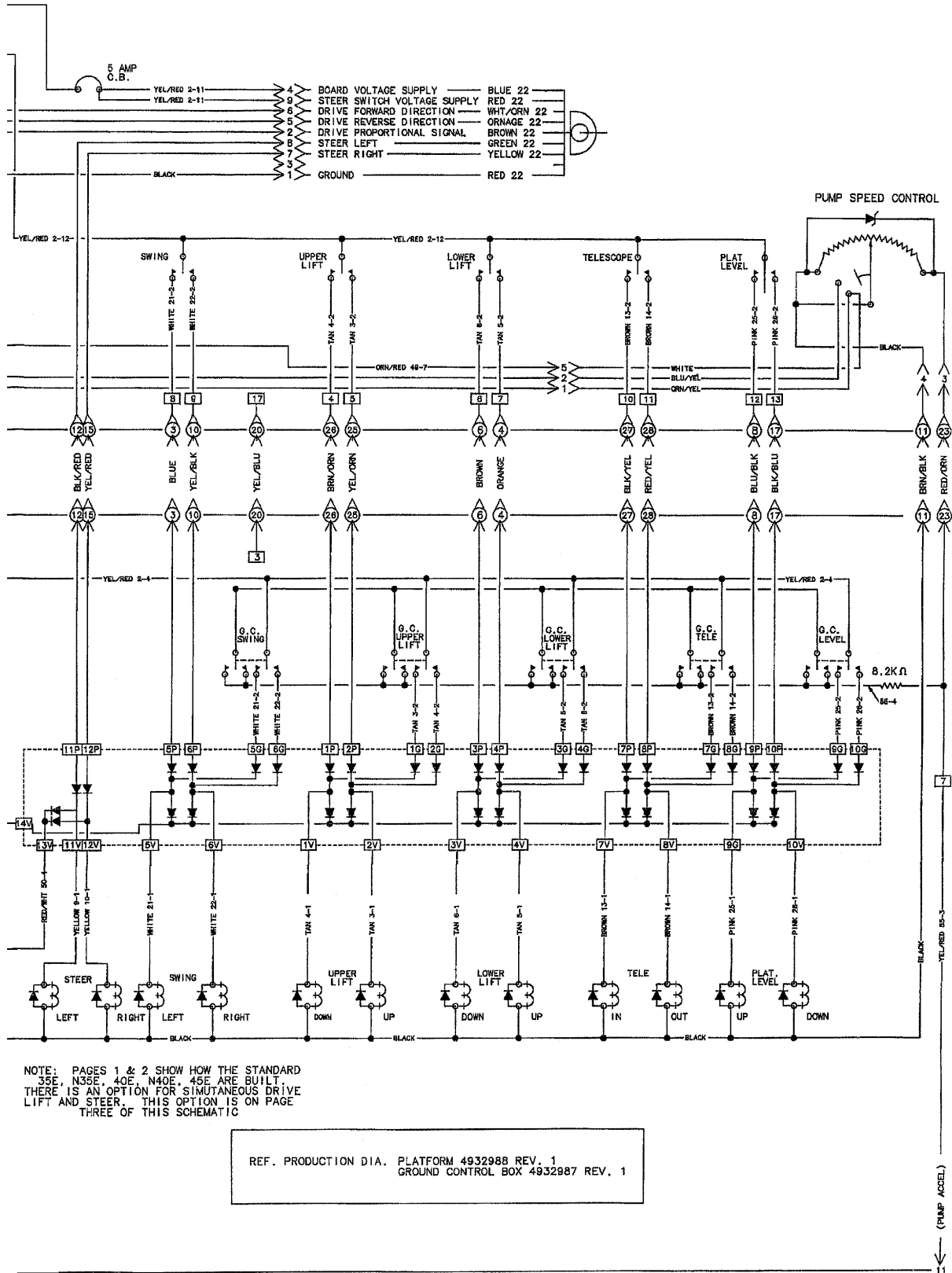
FIGURE 7-6. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH NUMBERED COLORED WIRE (S/N36648 TO PRESENT) (SHEET 1 of 4)



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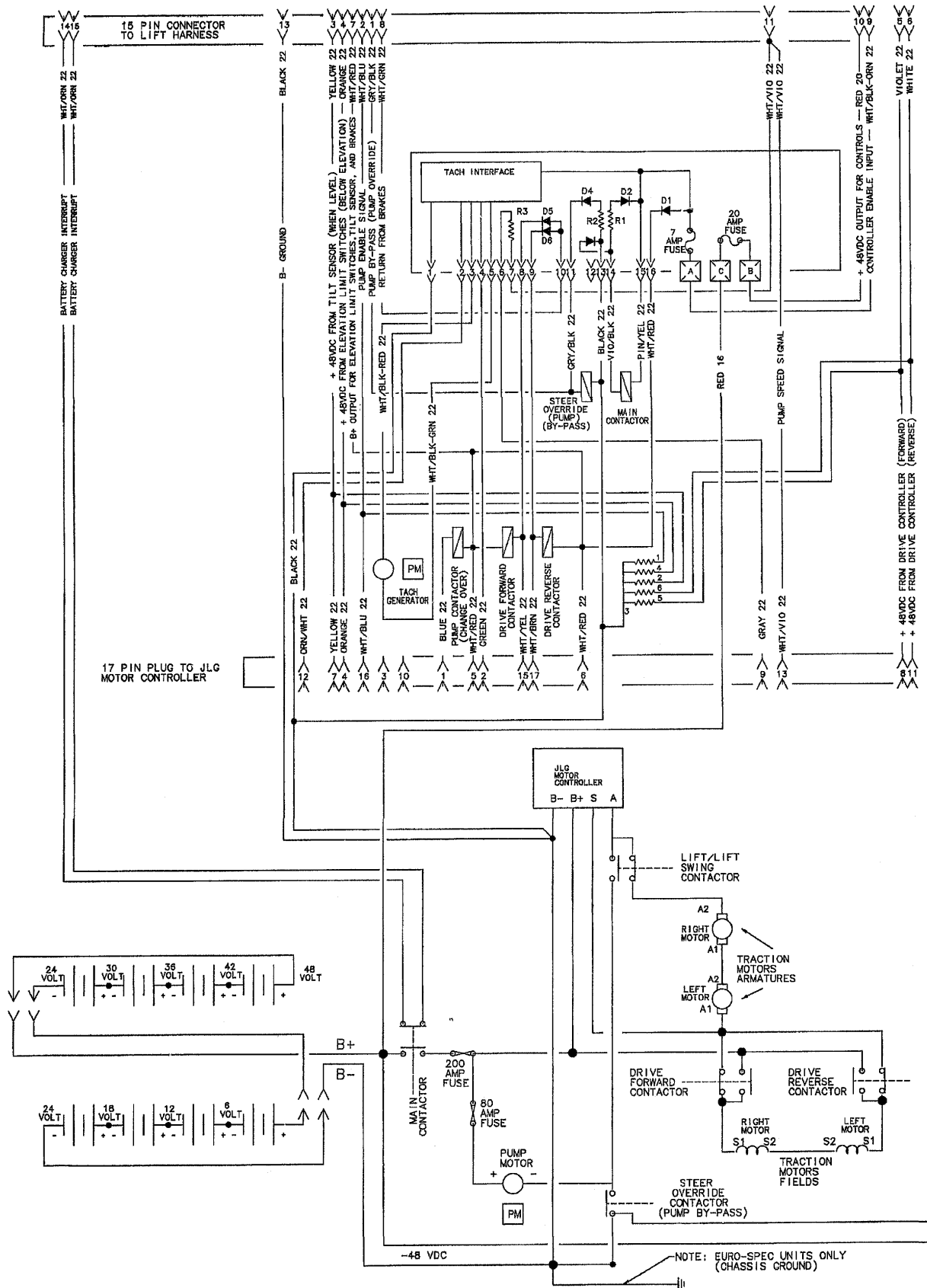
FIGURE 7-6. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH NUMBERED COLORED WIRE (S/N36648 TO PRESENT) (SHEET 2 of 4)



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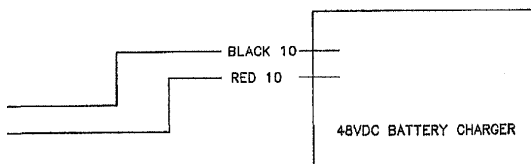
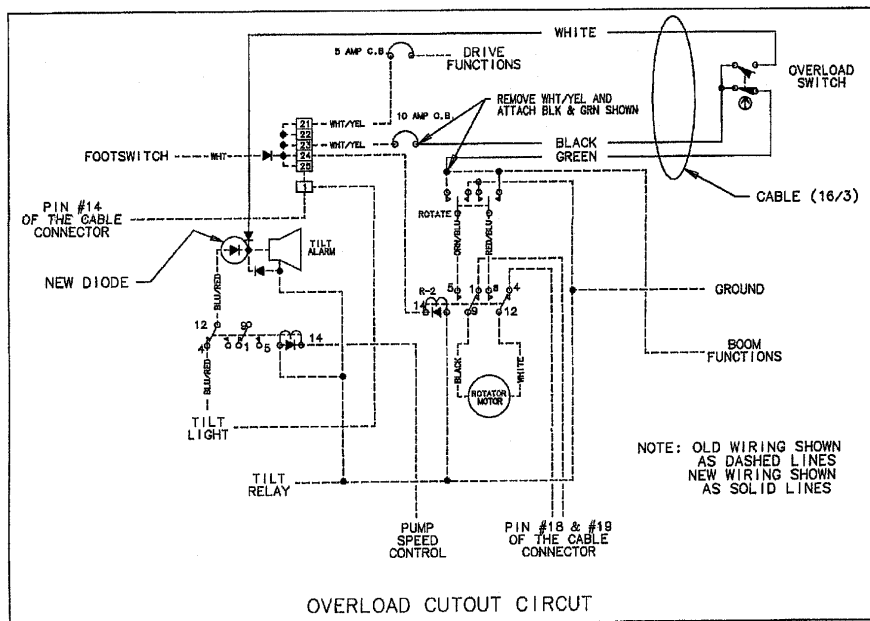
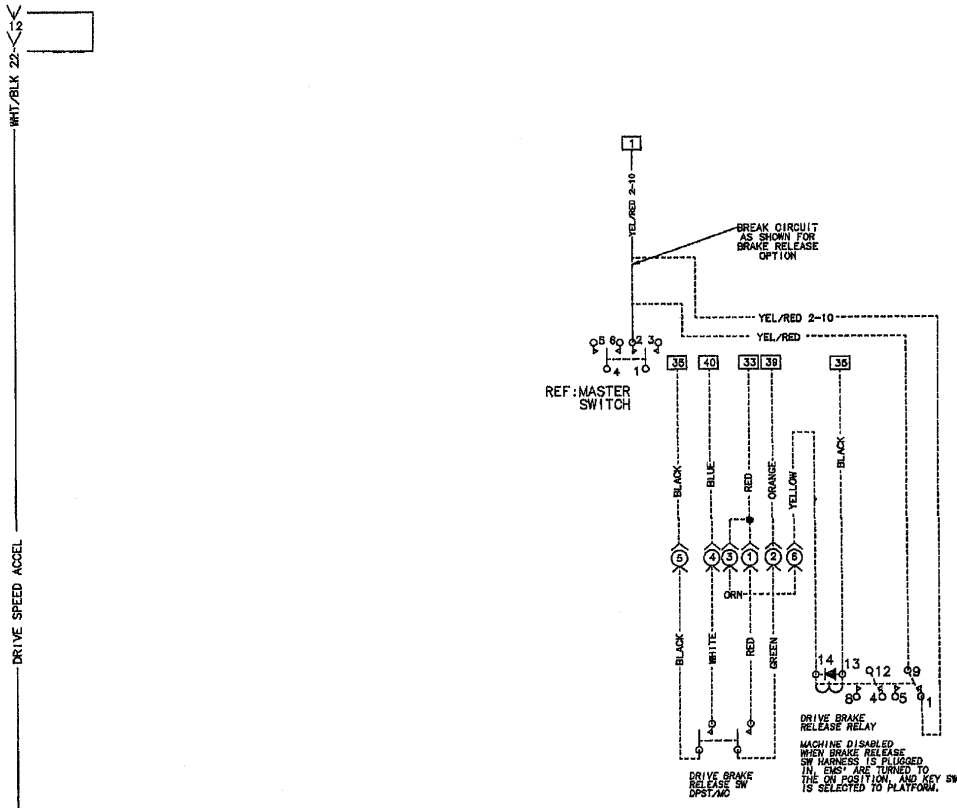
FIGURE 7-6. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH NUMBERED COLORED WIRE (S/N36648 TO PRESENT) (SHEET 3 of 4)



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FIGURE 7-6. ELECTRICAL SCHEMATIC - 35electric/40electric/45electric WITH NUMBERED COLORED WIRE (S/N36648 TO PRESENT) (SHEET 4 of 4)

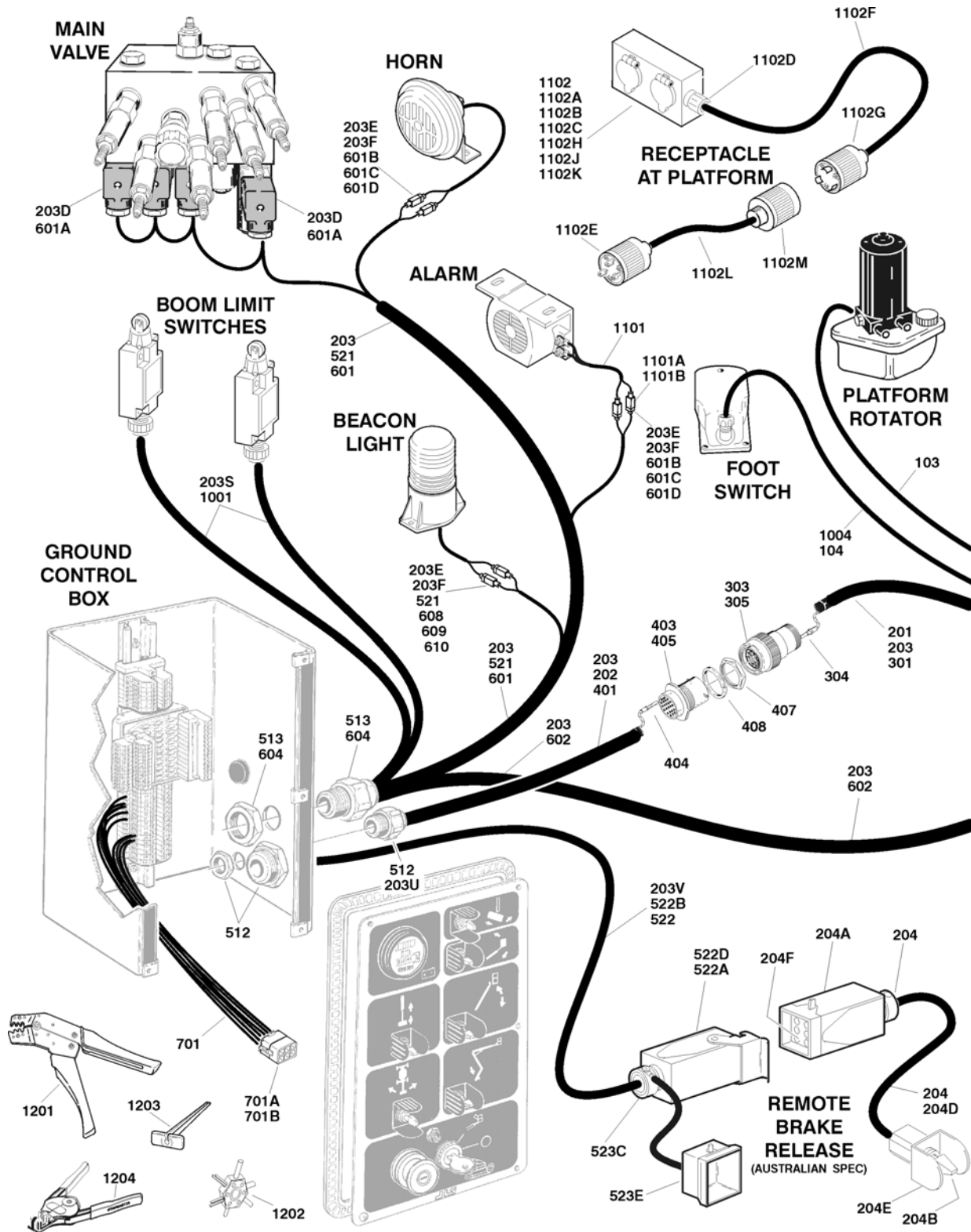


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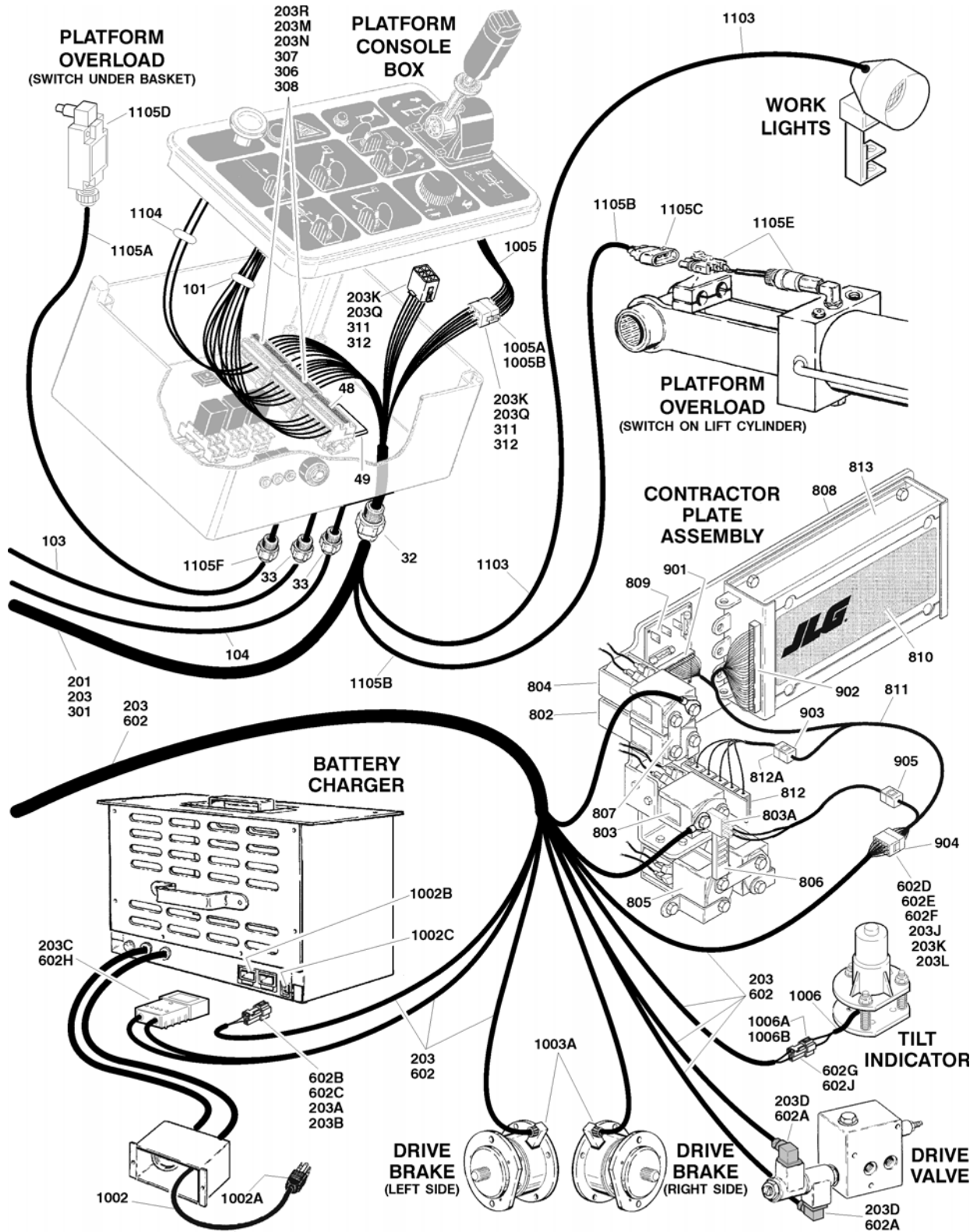
FIGURE 7-7. HARNESS COMPONENTS INSTALLATION



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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION



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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		ELECTRICAL HARNESS AND COMPONENTS INSTALLATION	Ref.	
		Note: Numbered colored wire starts with s/n 36648		
		Note: FOR ALL BATTERY AND CONTACTOR CABLES SEE SECTION 1.		
		PLATFORM CONSOLE BOX COMPONENTS	Ref.	
1 to 31	Not Used			
32	4460526	Connector, Strain Relief	1	
33	4460428	Connector, Strain Relief	A/R	
34 to 47	Not Used			
48		Plug, Terminal Options:	A/R	
	Not Required	30electric	0	
	4460523	35electric/40electric/45electric	1	
49		Bridge, Insertion	A/R	
	Not Required	30electric	0	
	4460529	35electric/40electric/45electric	2	
		PLATFORM ELECTRICAL DIAGRAMS		
	4932674	30electric Prior to S/N 33441	Ref.	A
	4932936	30electric S/N 33441 to S/N36544	Ref.	—
	4933002	30electric S/N 36544 to Present	Ref.	2/B
	4932659	35/40/45electric Prior to S/N 33441	Ref.	C
	4932937	35/40/45electric S/N 33441 to S/N36648	Ref.	—
	4932988	35/40/45electric S/N 36648 to Present	Ref.	2/B
101		Harness, Platform Console Box Options:	1	
	Not Available	30electric Prior to S/N 36544		
	4922056	30electric S/N 36544 to Present		
	Not Available	35/40/45electric Prior to S/N 36648		
	4922042	35/40/45electric S/N 36648 to Present		
102	3990001	Diode - 3.5 Amp (Not Shown)	2	
103	1060341	Cable, Electrical - 16/2 (35/40/45electric only)	8 ft./2.4m	
104	1060330	Cable, Electrical - 16/3	7 ft./2.2m	
105 to 109	Not Used			
110	3990010	Diode - 6 Amp (Not Shown)	1	
		BOOM CABLES INSTALLATIONS		
	0254738	30electric Prior to S/N 36544	Ref.	A
	0258226	30electric S/N 36544 to Present	Ref.	1
	0254595	35electric Prior to S/N 36648	Ref.	D
	0258565	35electric S/N 36648 to Present	Ref.	1
	0254647	40electric Prior to S/N 36648	Ref.	6
	0258563	40electric S/N 36648 to Present	Ref.	1
	0254041	45electric Prior to S/N 36648	Ref.	7
	0258564	45electric S/N 36648 to Present	Ref.	1

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
201		Harness Assembly - Upper Boom (See Items 301-315 for Breakdown)	1	
	4921644	35electric Prior to S/N 36648		C
	4922128	35electric S/N 36648 to Present		2
	4921644	40electric Prior to S/N 36648		C
	4922128	40electric S/N 36648 to Present		2
	4921645	45electric Prior to S/N 36648		D
	4922127	45electric S/N 36648 to Present		1
202		Harness Assembly - Lower Boom (See Items 401-419 for Breakdown)	1	
	4921650	35electric		B
	4921581	40electric		C
	4921591	45electric		C
203		Harness Assembly - Boom/Chassis/Valve	1	
	4921659	30electric Prior to S/N 36544		A
	4922061	30electric S/N 36544 to Present		2
	1060516	Cable, Electrical - 16/30	46.5ft/14.2m	
203A	4460320	Connector - 2 Position	1	
203B	4460268	Socket, Female	2	
203C	4460444	Connector, Anderson	1	
203D	4460499	Connector, DIN	8	
203E	4460454	Terminal, Female	A/R	
203F	4460453	Terminal, Male	A/R	
203G	4460539	Connector - 3 Position	1	
203H	4460465	Socket, Female	3	
203J	4460434	Connector - 15 Position	1	
203K	4460267	Pin, Male	28	
203L	4460446	Terminal, Strain Relief	1	
203M	4460523	Connector - 10 Position	2	
203N	4460525	Markers, Terminal (1-30)	1	
203P	4460527	Bridge, Insertion - 2 Position	1	
203Q	4460265	Connector - 9 Position	1	
203R	4460225	Connector - 6 Position	1	
203S	1060341	Cable, Electrical 16/2	47.5ft/14.5m	
203T	3990001	Diode - 3.5 Amp	3	
203U	4460426	Connector, Strain Relief	1	
203V	Not Required			
204	Not Required			
204A to 204F	Not Required			
		HARNESS ASSEMBLY - UPPER BOOM (35/40/45 electric)	Ref.	
		Note: See item 203 for 30electric harness.		
301	1060516	Cable, Electrical - 16/30 35electric/45electric 40electric	A/R 27.5 ft./8.4m 31 ft./9.5m	
302	Not Used			
303	4460501	Connector - 31 Pin (Female)	1	
304	4460464	Pin, Male	30	

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
305	4460466	Seal, Terminal	1	
306	4460523	Connector - 10 Position	2	
307	4460525	Markers, Terminal (1-30)	1	
308	4460527	Bridge, Insertion - 2 Position	1	
309	Not Used			
310	Not Used			
311	4460265	Connector - 9 Position	1	
312	4460267	Pin, Male	13	
313	Not Used			
314	Not Used			
315	4460225	Connector - 6 Position	1	
		HARNESS ASSEMBLY - TOWER BOOM (35/40/45 electric)	Ref.	
		Note: See item 203 for 30electric harness.		
401	1060516	Cable, Electrical - 16/30 35electric 40electric 45electric	A/R 27 ft./8.3m 34 ft./10.4m 37 ft./11.3m	
402	Not Used			
403	4460500	Receptacle, Connector - 31 Pin (Male)	1	
404	4460465	Socket, Female	30	
405	4460466	Seal, Terminal	1	
406	Not Used			
407	4460470	Nut, Terminal (Prior to S/N October 1995 Only)	1	
408	4460471	Washer, Terminal (Prior to S/N October 1995 Only)	1	
		GROUND CONTROL BOX COMPONENT (35/40/45 electric)	Ref.	
501 to 511	Not Used			
512	4460425	Connector, Strain Relief	2	
513	4460426	Connector, Strain Relief	1	
514 to 520	Not Used			
521		Harness - Chassis and Valve Options (See Items 601-610 for Breakdown)	1	
	4921643	35/40/45electric Prior to S/N 36648		
	4922039	35/40/45electric S/N 36648 to Present		
522	Not Required			
		CHASSIS/VALVE HARNESS ASSEMBLY (35/40/45 electric)	Ref.	
		Note: See item 203 for 30electric harness.		
601		Valve Harness Options:	1	
	4921641	Prior to S/N 36648		
	4921882	S/N 36648 to Present		
601A	4460499	Connector, DIN	10	
601B	4460454	Terminal, Female	3	

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
601C	4460453	Terminal, Male	4	
601D	3990001	Diode 3.5 Amp	2	
602		Chassis Harness Options:	1	
	4921642	Prior to S/N 36648		
	4922040	S/N 36648 to Present		
602A	4460499	Connector, DIN	2	
602B	4460320	Connector - 2 Position	1	
602C	4460268	Socket, Female	2	
602D	4460434	Connector - 15 Position	1	
602E	4460267	Pin, Male	15	
602F	4460446	Terminal, Strain Relief	1	
602G	4460539	Connector - 3 Position	1	
602H	4460444	Connector, Anderson	1	
602J	4460465	Socket, Female	3	
603	Not Used			
604	4460426	Connector, Strain relief	1	
605 to 607	Not Used			
608	4460454	Terminal, Female	2	
609	4460453	Terminal, Male	2	
610	3990001	Diode 3.5 Amp	1	
		GROUND CONTROL BOX ELECTRICAL DIAGRAMS		
	4932675	30electric Prior to S/N 36544	Ref.	A
	4933003	30electric S/N 36544 to Present	Ref.	B/2
	4932660	35/40/45electric Prior to S/N 36648	Ref.	H
	4932987	35/40/45electric S/N 36648 to Present	Ref.	2/C
701		Harness - Ground Control Box Options:	1	
	Not Available	30electric Prior to S/N 36544 (Used individual wires and components)		
	4922045	30electric S/N 36544 to Present		
	Not Available	35/40/45electric Prior to S/N 36648 (Used individual wires and components)		
	4922043	35/40/45electric S/N 36648 to Present		
701A	4460418	Receptacle, Female - 6 Position	6	
701B	4460419	Terminal	36	
701C	3990010	Diode - 6 Amp (Not Shown)	1	
701D	3730103	Resistor 8.2K (Not Shown)	1	
		CONTACTOR PLATE ASSEMBLY		
	0254549	30electric/35electric/40electric	Ref.	C
	0254597	45electric	Ref.	C
801	2400045	Fuse 80 Amp (Not Shown)	1	
802	7013301	Contactor (Changeover)	1	
	7013316	Tip Kit for 7013301 Contactor	1	
803	7013306	Contactor (Main)	1	
	7013317	Tip Kit for 7013306 Contactor	1	
803A	7013332	Micro Switches Kit for 7013306 Contactor	1	
804	7013303	Contactor (By-Pass)	1	
	7013318	Tip Kit for 7013303 Contactor	1	

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
805	7013302	Contactora (Forward/Reverse)	1	
	7013319	Tip Kit for 7013302 Contactora	1	
806	2400041	Fuse, Buss - 200 Amp	1	
807	7013336	Bar, Buss	1	
808	Not Serviced	Plate, Mounting	1	
809	7013314	Board, PC	1	
	2400005	Fuse, 20Amp	1	
	7013322	Fuse, 7Amp	1	
810	Not Serviced	Decal	1	
811	7013313	Harness Assembly (See Items 901 to 906 for Breakdown)	1	
812	7013315	Resistor/Bracket Assembly	1	
812A	4460224	Connector, Female	1	
	4460268	Socket	6	
813		Control Module Options:	1	
	7013310-30E	Model 30electric		
	7013310-35E	Model 35electric		
	7013310-40E	Model 40electric		
	7013311	Model 45electric		
	7013313	CONTACTOR PLATE HARNESS ASSEMBLY	Ref.	
901	7013325	Connector - 16 Position/15 Wire	1	
	7013320	Pin	15	
902	7013326	Connector - 17 Position/16 Wire	1	
	7013320	Pin	16	
903	4460225	Connector - 6 Position/6 Wire	1	
	7013331	Pin	6	
904	7013327	Connector - 15 Position/15 Wire	1	
	7013329	Socket	15	
905	7013328	Connector - 4 Position/1 Wire (On Harness But Not Required for Lifts)	1	
	7013329	Socket	1	
906	7016618	Tool, Sevcon Pin Removal (Not Shown)	1	
		STANDARD HARNESS COMPONENTS	Ref.	
1001	Not Available	Boom Limit Switch Harness	1	
	1060341	Cable, Electrical 16/2	A/R	
		35electric	34ft/10.4m	
		40electric	48ft/14.6m	
		45electric	58ft/15m	
1002		Battery Charger Electrical Components:	A/R	
1002A		AC Cord - Battery Charger Options:	1	
	7011643	110V/60Hz U/L Spec (USA/CSA/Latin America)		
	7011591	110V/60Hz Non-U/L Spec (USA/CSA/Latin America)		
	7011677	220V/60Hz U/L Spec (USA/CSA/Latin America/Brazil)		
	7011572	220V/50Hz U/L Spec (Latin America/Brazil)		

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
1002B	7011590	Connector, DC	1	
1002C	7011621	Connector, Enable Switch	1	
1003		Brake Electrical Components:		
1003A	7012580	Connector, Electrical	2	
1004	4921396	Footswitch Harness	1	
1005	Not Available	Controller Harness Assembly	1	
1005A	4460266	Receptacle Female - 9 Position	1	
1005B	4460226	Socket, Female	9	
1006	Not Available	Tilt Sensor Harness		
1006A	4460536	Receptacle, Female - 3 Position	1	
1006B	4460464	Pin, Male	3	
		OPTIONAL HARNESS COMPONENTS	Ref.	
1101		Motion Alarm Harness Options:	1	
	4921425	Prior to S/N 36648		
	4922076	S/N 36648 to Present		
1101A	4460454	Terminal, Female	3	
1101B	4460453	Terminal, Male	4	
1102		Receptacle Box at Platform Components		
	0252358	30electric with 110VAC Receptacle	Ref.	F
	0254793	30electric with 220VAC Receptacle	Ref.	A
	0254542	35electric with 110VAC Receptacle	Ref.	D
	0253716	40electric with 110VAC Receptacle	Ref.	E
	0254042	45electric with 110VAC Receptacle	Ref.	D
	0257103	45electric with 220VAC Receptacle	Ref.	—
1102A		Box, Electrical Options:	1	
	0860038	USA/CSA Spec		
	Supply Locally	Brazil/Latin American/Japanese Spec		
1102B		Receptacle, Electrical Options:	1	
	4460347	110VAC USA/CSA Spec		
	4460125	220VAC USA/CSA Spec		
	Supply Locally	Brazil/Latin American/Japanese Spec		
1102C		Cover, Receptacle Options:	1	
	4060092	USA/CSA Spec		
	Supply Locally	Brazil/Latin American/Japanese Spec		
1102D	4460071	Connector, Strain Relief	1	
1102E		Plug	1	
	4460205	110VAC USA/CSA Spec		
	4460233	220VAC USA/CSA Spec		
	Supply Locally	Brazil/Latin American/Japanese Spec		
1102F		Harness Options (Upper Boom):	1	
	Not Available	30electric		
	1060330	Cable, Electrical - 16/3	40ft/12.m	
	4921647	35electric		
	4921569	40electric		
	4921593	45electric		
1102G	4460205	Plug, Male (35/40/45electric Only)	1	

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
1102H	3910606 4460233 Supply Locally	Screw, Machine Options: 110VAC (#6-32NC x 3/8") (USA/CSA Spec) 220VAC (#10 x 1/2") (USA/CSA Spec) Brazil/Latin American/Japanese Spec	4	
1102J	4760600 4460205 4460233 Supply Locally	Lockwasher Options: 110VAC (#6) (USA/CSA Spec) 220VAC (#10) (USA/CSA Spec) Brazil/Latin American/Japanese Spec	4	
1102K	3960422 Supply Locally	Gasket USA/CSA Spec Brazil/Latin American/Japanese Spec	1	
1102L	Not Available 1060330 4921646 4921568 4921592	Harness Options (Lower Boom): 30electric Cable, Electrical - 16/3 35electric 40electric 45electric	1 40ft/12.m	
1102M	4460134	Receptacle (35/40/45electric Only)	1	
1102N	4460315	Terminal (Not Shown - 220VAC USA/CSA Spec Machines Only)	1	
1102P	3251243 3252507 3251242	Decal Options (Not Shown): 110VAC 220VAC/60HZ 220VAC/50HZ	1	
1103	4921428	Platform Worklight Harness	1	
1104	Not Available 4922078	Platform Options Harness Options: Prior to S/N 36648 S/N 36648 to Present Above Elevation Tilt Alarm Above Elevation Tilt Alarm & Drive Cutout Above Elevation Drive Cutout Eight Meter Drive Cutout Overload with Override (Switch at Slave Cyl) Overload without Override (Switch at Slave Cyl)	1	
1105		Overload Switch Harness/Components Harness Options:	1 1	
1105A	Not Available 1060016	Pressure Switch Located Under Basket (35/ 40/45electric) Cable, Electrical - 16/3	6ft/1.8m	
1105B	4921521	Pressure Switch Located at Slave Cylinder		
1105B	4921601	Pressure Switch Located at Slave Cylinder		
1105C	4460476 4460475	Receptacle, Female - 3 Position Pin	1 3	
1105D	4360451	Pressure Switch Options: Pressure Switch Located Under Basket	1	
1105E	4360344	Pressure Switch Located at Slave Cylinder		
1105F	4460428	Connector, Strain Relief	1	

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FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
1106		Low Voltage Interrupt/Cutout Harness (Not Shown)	A/R	
	4921566	30electric Harness		
	4460489	Connector (At Low Voltage Cutout Relay)	1	
		35/40/45electric Harness Options:		
	4921983	Harness (Lift Interrupt to MTB)	1	
	4921984	Harness (Lift Interrupt to Rear Axle)	1	
1107	Not Available	Platform Proximity Switch Harness (35/40/45 electric) (Not Shown - Use individual wires)	A/R	
		TOOLS	Ref.	
1201	7002821	Crimper (For Wire to Pin/Socket Connections)	1	
1202	7002823	Extractor (For Removal of Pin/Socket from Connectors)	1	
1203	4460467	Extractor, Pin (Blue 16-18 Gauge) (For Removal of Pin/Socket from Connectors)	1	
	4460510	Extractor, Pin (Yellow 12-14 Gauge) (For Removal of Pin/Socket from Connectors)	1	
1204	7002828	Stripper, Wire	1	

SECTION 7 ELECTRICAL

FIGURE 7-7. HARNESS COMPONENTS INSTALLATION (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

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SECTION 8 DECALS

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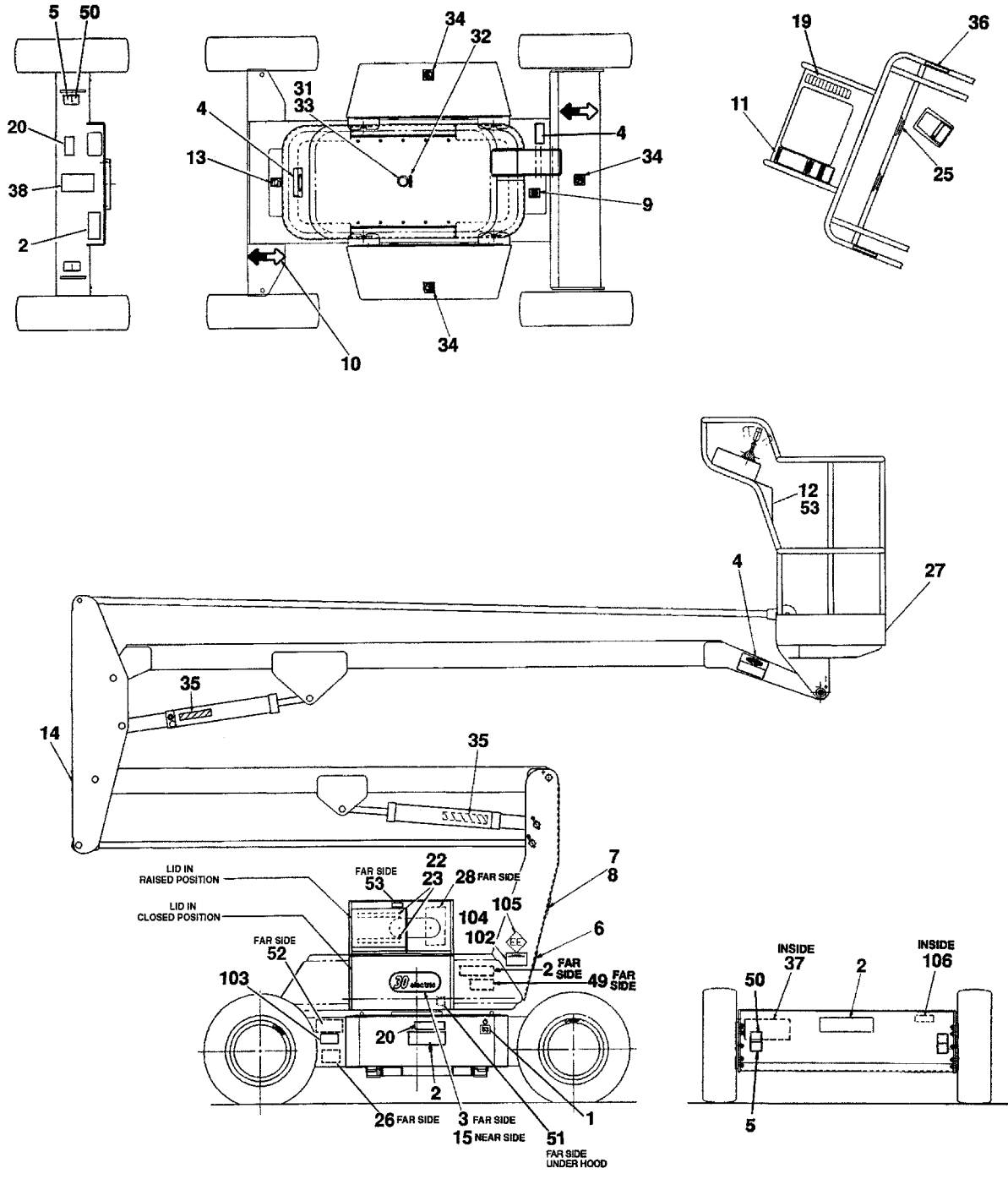
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SECTION 8 DECALS

FIGURE 8-1. DECALS INSTALLATION - 30electric



SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-1. DECALS INSTALLATION - 30ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0254703	DECALS INSTALLATION	Ref.	8
1	1702155	Decal - Battery Disconnect	2	
2	1702292	*Decal - Electrocution	5	
3	1702174	*Decal - 30electric	1	
4	1702284	*Decal - Crushing	4	
5	1702300	*Decal - Tie-Down	4	
6	1700584	*Decal - Patent	1	
7	Not Available	Nameplate - Manufacturer's Serial Number	1	
8	3820001	Rivet	8	
9	1701504	*Decal - Hydraulic Oil	1	
10	1701642	Decal - Arrow	2	
11		*Decal - Caution/Danger Options:	1	
	1702283	Prior to S/N27242		
	1702935	S/N27242 to Present		
12		*Decal - Caution Options:	1	
	1702281	Prior to S/N27242		
	1702936	S/N27242 to Present		
13	1701644	*Decal - Charger	1	
14	3251813	*Decal - USA	1	
15	1702253	*Decal - 30electric/Manual	1	
16	Not Used			
17	Not Used			
18	Not Used			
19	1702288	*Decal - Legend	1	
20	1702279	Decal - Warning	3	
21	Not Used			
22	1580008	Box, Manual Storage	1	
23	4420054	Tape, Double Sided	20 in./52cm	
24	Not Used			
25		*Decal - Attach Belt Options:	2	
	1702276	Prior to S/N27246		
	1702612	S/N27246 to S/N61064		
	1704277	S/N61064 to Present		
26	1702153	*Decal - Inspection	1	
27	1701645	Decal - 500 Lbs. Max. Cap. (Prior to S/N 38573)	1	
28	1702278	*Decal - Crushing	1	
29	Not Used			
30	Not Used			
31	0961127	Bushing, Snap	1	
32	3251243	*Nameplate - 120V - 60Hz	1	
33	0100010	Loctite	A/R	
34	1701691	*Decal - No Step	3	
35	1701714	*Decal - Manual Descent	2	
36	1702294	Decal - No Hands	2	
37	1702241	*Decal - Cable Routing	1	
38	1701695	Decal - Charger Instructions	1	
39 to 48	Not Used			
49	1702282	*Decal - Warning	1	

SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-1. DECALS INSTALLATION - 30ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
50	1701500	*Decal - Lift	4	
51	1702375	*Decal - Manual Swing	1	
52	1702631	Decal - Bar Code (S/N27246 to Present)	1	
53	1702688	*Decal - 500Lbs Max Capacity (S/N27246 to Present)	2	
54	1701892	*Decal - JLG Lift (S/N29284 to Present)	2	
	2900986	----- Decal Kit (Includes Items with asterisk*)	1	
	0254454	U/L DECALS INSTALLATION (PRIOR TO S/N 33441)	Ref.	C
	0257661	U/L DECALS INSTALLATION (S/N 33441 TO PRESENT)	Ref.	1
101	Not Used			
102	3820001	Rivet	8	
103	3252331	Nameplate - Battery Info	1	
104	3251921	Nameplate - U/L Certification	1	
105	1702251	Nameplate - "EE"	2	
106	1702157	Decal - Fuse Replacement	1	

SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-1. DECALS INSTALLATION - 30ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

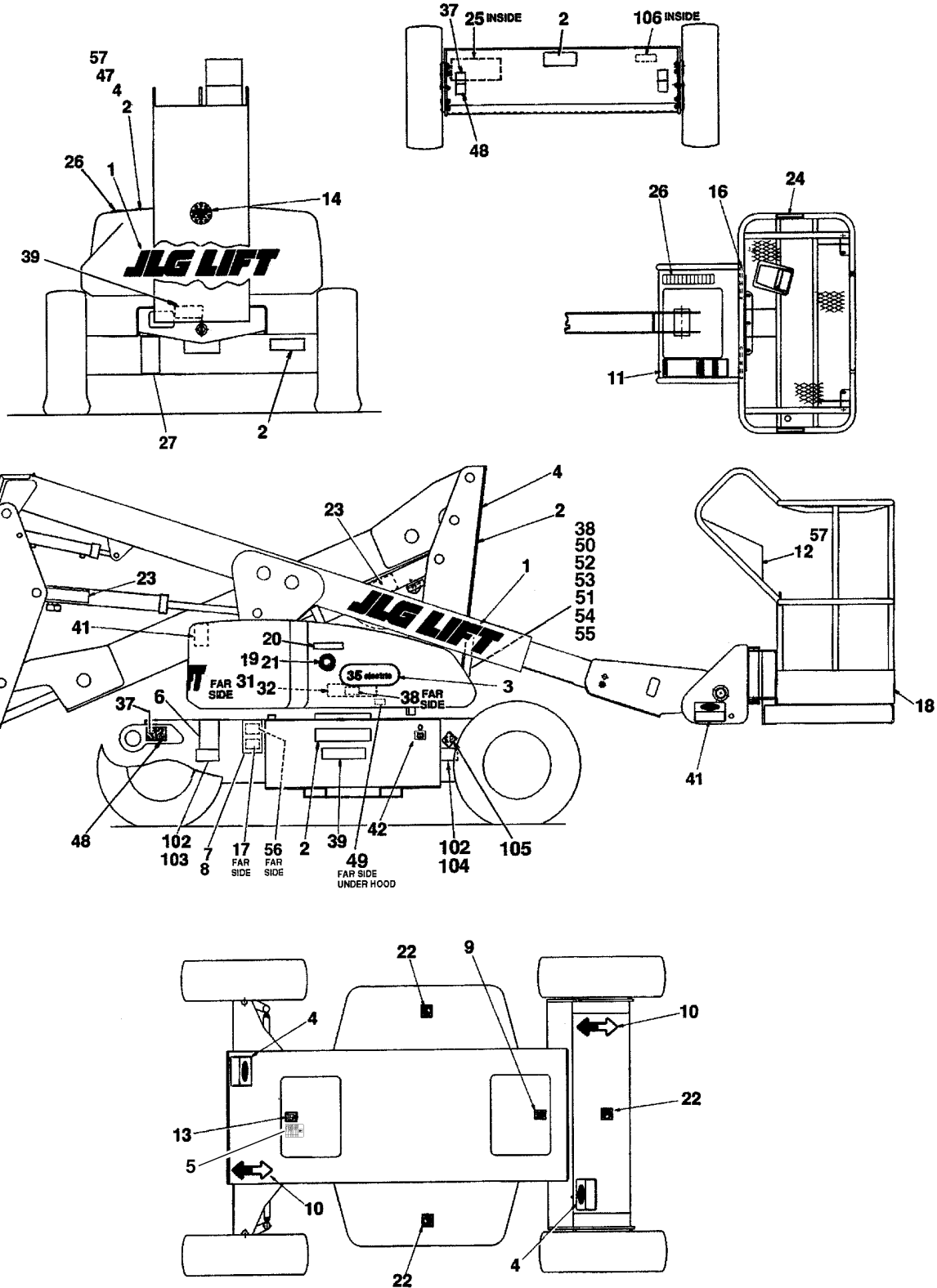
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SECTION 8 DECALS

FIGURE 8-2. DECALS INSTALLATION - 35electric



SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-2. DECALS INSTALLATION - 35ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		DECALS INSTALLATION		
	0271037	JLG Logo	Ref.	1
	0254706	35electric	Ref.	11
	0254731	n35electric	Ref.	12
1	1701892	Decal - JLG Lift	3	
2	1702292	*Decal - Electrocutation	5	
3		*Decal - Model Options:	2	
	1702175	JLG 35electric		
	1702176	JLG n35electric		
4	1702278	*Decal - Crushing	3	
5	1704412	Decal - Hyd. Oil	1	
6	1700584	*Decal - Patent	1	
7	Not Available	Nameplate - Manufacturer's Serial Number	1	
8	3820001	Rivet	8	
9	1701504	*Decal - Hydraulic Oil	1	
10	1701642	*Decal - Arrow	2	
11		Decal - Caution/Danger Options:	1	
	1702283	Prior to S/N27242		
	1702935	S/N27242 to Present		
12		*Decal - Caution Options:	1	
	1702281	Prior to S/N27242		
	1702936	S/N27242 to Present		
13	1701644	*Decal - Charger	1	
14	3251813	*Decal - USA	1	
15	Not Used			
16		*Decal - Attach Belt Options:	2	
	1702276	Prior to S/N27246		
	1702612	S/N27246 to S/N61064		
	1704277	S/N61064 to Present		
17	1702153	*Decal - Inspection	1	
18	1701645	Decal - 500 Lbs. Max. Cap. (Prior to S/N 38573 Only)	1	
19	0961127	Bushing, Snap	1	
20	3251243	*Nameplate - 120V - 60Hz	1	
21	0100010	Loctite	A/R	
22	1701691	Decal - No Step	3	
23	Not Used			
24	1702294	*Decal - No Hands	2	
25	1702241	*Decal - Cable Routing	1	
26	1702290	*Decal - Legend	2	
27	1701695	Decal - Charger Instructions	1	
28 to 30	Not Used			
31	1580008	Box, Manual Storage (Prior to July 1994)	1	
32	4420054	Tape, Double Sided (Prior to July 1994)	20 in./ 52cm	
33 to 36	Not Used			
37	1701500	*Decal - Lift	4	
38	1701640	*Decal - Manual	1	
39	1702279	*Decal - Warning	3	

SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-2. DECALS INSTALLATION - 35ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
40	Not Used			
41	1702284	*Decal - Crushing Hazard	2	
42	1702155	*Decal - Battery Disconnect	2	
43 to 46	Not Used			
47	1702282	*Decal - Warning	1	
48	1702300	*Decal - Tie Down	4	
49	1702375	*Decal - Manual Swing (June 1994 to Present)	1	
50	0860520	Box, Manual Storage (July 1994 to Present)	1	
51	3941408	Screw, Self-Tap 1/4" x 1"	4	
52	4751400	Flatwasher 1/4"	6	
53	0641408	Bolt 1/4"-20NC x 1"	1	
54	3311405	Locknut 1/4"-20NC	1	
55	1060279	Lanyard	1	
56	1702631	Decal - Bar Code (S/N27246 to Present)	1	
57	1702688	*Decal - 500Lbs Max Capacity (S/N27246 to Present)	2	
58	Not Used			
59	1701714	*Decal - Manual Descent	2	

		Decal Kit Options (Includes Items with asterisk*):	1	
	2910055	35electric		
	2910036	n35electric		
	0254454	U/L DECALS INSTALLATION (PRIOR TO S/N 33402)	Ref.	C
	0257660	U/L DECALS INSTALLATION (S/N 33402 TO PRESENT)	Ref.	1
101	Not Used			
102	3820001	Rivet	8	
103	3252331	Nameplate - Battery Info	1	
104	3251921	Nameplate - U/L Certification	1	
105	1702251	Nameplate - "EE"	2	
106	1702157	Decal - Fuse Replacement	1	

SECTION 8 DECALS

SECTION 8 DECALS

FIGURE 8-2. DECALS INSTALLATION - 35ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.

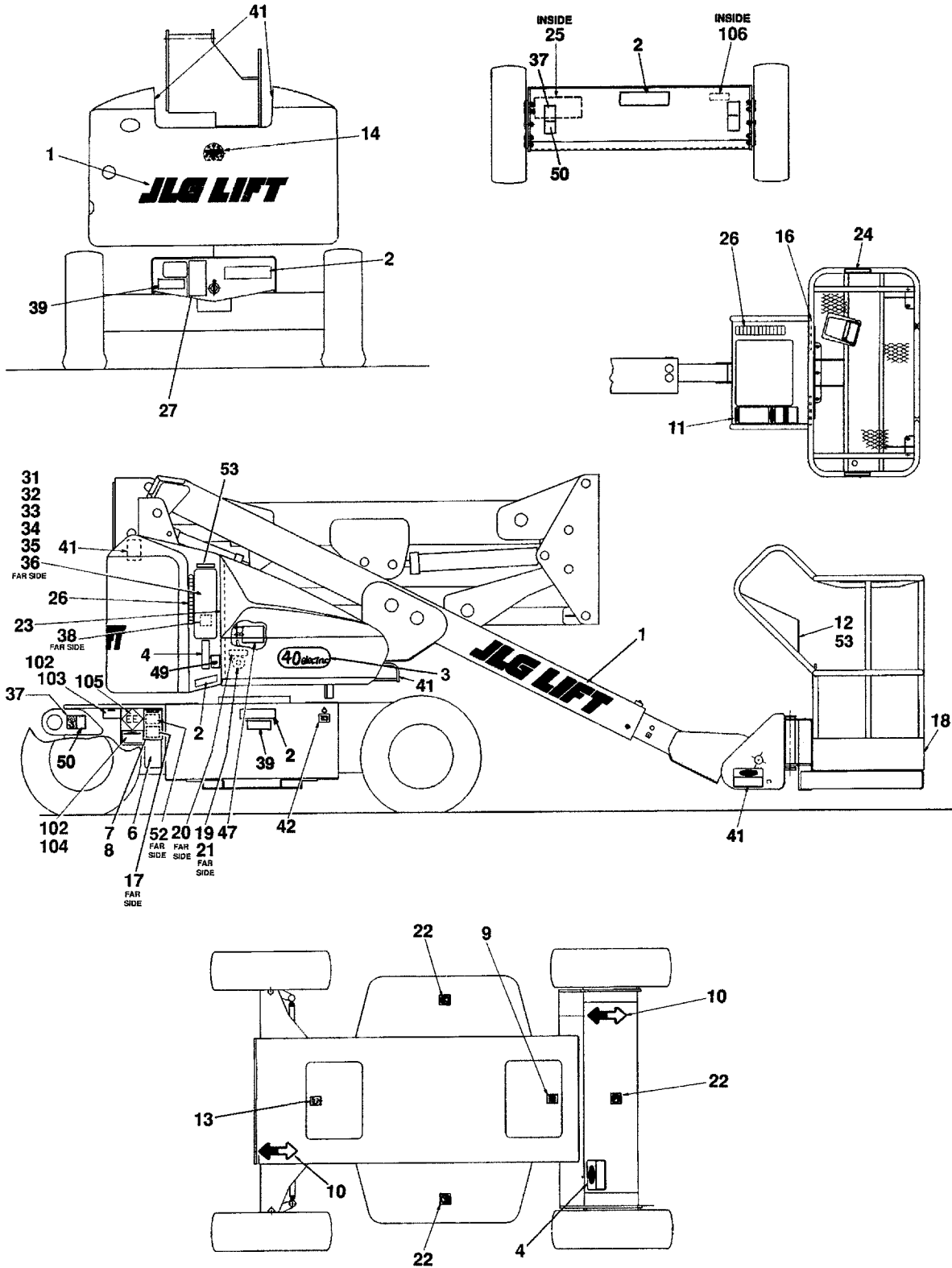
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SECTION 8 DECALS

FIGURE 8-3. DECALS INSTALLATION - 40electric AND 45electric



SECTION 8 DECALS

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FIGURE 8-3. DECALS INSTALLATION - 40ELECTRIC AND 45ELECTRIC

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		DECALS INSTALLATION		
	0271039	JLG Logo	Ref.	1
	0254540	40electric	Ref.	14
	0254733	n40electric	Ref.	9
	0254538	45electric	Ref.	12
1	1701892	Decal - JLG Lift	3	
2	1702292	*Decal - Electrocutation	5	
3		*Decal - Model Options:	2	
	1702177	JLG 40electric		
	1702178	JLG n40electric		
	1702179	JLG 45electric		
4	1702278	*Decal - Crushing	1	
5	Not Used			
6	1700584	*Decal - Patent	1	
7	Not Available	Nameplate - Manufacturer's Serial Number	1	
8	3820001	Rivet	8	
9	1701504	*Decal - Hydraulic Oil	1	
10	1701642	*Decal - Arrow	2	
11		Decal - Caution/Danger Options:	1	
	1702283	Prior to S/N27242		
	1702935	S/N27242 to Present		
12		*Decal - Caution Options:	1	
	1702281	Prior to S/N27242		
	1702936	S/N27242 to Present		
13	1701644	*Decal - Charger	1	
14	3251813	*Decal - USA	1	
15	Not Used			
16		*Decal - Attach Belt Options:	2	
	1702276	Prior to S/N27246		
	1702612	S/N27246 to S/N61064		
	1704277	S/N61064 to Present		
17	1702153	*Decal - Inspection	1	
18	1701645	Decal - 500 Lbs. Max. Cap.(Prior to S/N 38573)	1	
19	0961127	Bushing, Snap	1	
20		Nameplate - (Option)	1	
	3251243	*Nameplate - 120V - 60Hz	1	
	3252507	Nameplate - 220V - 50/60Hz	1	
21	0100010	Loctite	A/R	
22	1701691	Decal - No Step	3	
23	1702048	*Decal - Manual Descent	2	
24	1702294	*Decal - No Hands	2	
25	1702241	*Decal - Cable Routing	1	
26	1702288	*Decal - Legend	2	
27	1701695	Decal - Charger Instructions	1	
28 to 30	Not Used			
31	1580008	Box, Manual Storage	1	
32	1060279	Lanyard	1	
33	3941003	Screw, Self-Tapping	1	

SECTION 8 DECALS

FIGURE 8-3. DECALS INSTALLATION - 40ELECTRIC AND 45ELECTRIC (CONTINUED)

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
34	3911408	Screw, Round Head 1/4"-20NC x 1/2"	1	
35	4711400	Flatwasher 1/4"	1	
36	3311401	Nut 1/4"-20NC	1	
37	1701500	*Decal - Tie Down/Lift	4	
38	1701640	*Decal - Manual	1	
39	1702279	Decal - Danger	3	
40	Not Used			
41	1702284	*Decal - Crushing, Hazard	5	
42	1702155	*Decal - Battery Disconnect	2	
43 to 46	Not Used			
47	1702265	*Decal - Important	1	
48	Not Used			
49	1702282	*Decal - Warning	1	
50	1702300	*Decal - Warning	4	
51	Not Used			
52	Not Available	Decal - Bar Code (S/N27246 to Present)	1	
53	1702688	*Decal - 500Lbs Max Capacity (S/N27246 to Present)	2	

		Decal Kit Options (Includes Items with asterisk*):	1.	
	2900930	40electric		
	2910037	n40electric		
	2910010	45electric		
	0254454	U/L DECALS INSTALLATION	Ref.	4
101	Not Used			
102	3820001	Rivet	8	
103	3252331	Nameplate - Battery Info	1	
104	3251921	Nameplate - U/L Certification	1	
105	1702251	Nameplate - "EE"	2	
106	1702157	Decal - Fuse Replacement	1	

SECTION 8 DECALS

SECTION 9 RECOMMENDED SERVICE PARTS STOCK

30/35/40/45 electric Lifts

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		
		1-4	5-9	10 OR MORE
STANDARD PARTS				
3990053	Sensor, Tach (Figure 1-3)	1	1	1
2400045	Fuse (Figures 1-7 and 7-7)	2	2	2
4360371	Sensor, Level (Figure 1-7)	1	1	1
2120072	Element, Hydraulic Filter (Figure 1-10)	4	8	12
7013709	Breather/ Dipstick Assembly (Figure 1-10)	1	2	3
7010538	Coil (Figures 1-10, 2-1 and 2-4)	1	1	1
4360473	Switch, Key (Figures 2-10 and 2-11)	1	1	1
2860030	Key, Replacement (Figures 2-10 and 2-11)	1	1	1
4360069	Breaker, Circuit - 10 Amp (Figures 2-11 and 4-4)	1	1	1
4360475	Switch, Emergency Stop (Figures 2-10, 2-11 and 4-4)	1	1	1
4360314	Switch, Toggle (Figures 2-10, 2-11 and 4-4)	1	1	1
4360476	Contact Block (Figures 2-11 and 4-4)	1	1	1
4360031	Footswitch (Figure 4-1 and 4-2)	1	1	1
4360445	Potentiometer (Figure 4-4)	1	1	1
4360328	Switch, Toggle (Figure 4-4)	1	1	1
4360274	Switch, Push Button (Figure 4-4)	1	1	1
4360112	Breaker, Circuit - 5 Amp (Figure 4-4)	1	1	1
3740087	Relay (Figures 4-4, 7-1 and 7-2)	1	1	1
1600175	Controller (Figure 4-4)	1	1	1
7011942	Electrical Assembly - 1600175 Controller (Figure 4-5)	1	1	1
7003789	Switch, Steer - 1600175 Controller (Figure 4-5)	1	1	1
3990001	Diode - 3.5Amp (Figures 7-1, 7-2 & 7-7)	2	2	2
3990010	Diode - 6 Amp (Figure 7-7)	2	2	2
2400041	Fuse (Figure 7-7)	2	2	2
7013314	PC Board (Figure 7-7)	1	1	1
7013315	Resistor/Bracket Assembly (Figure 7-7)	1	1	1
VARIABLE PARTS				
7011593	Fuse (Machines with 110V Battery) (Figure 1-8)	2	2	2
7011645	Fuse (Machines with 110V Battery) (Figure 1-8)	2	2	2
7018570	Fuse (Machines with 220V/60Hz Battery) (Figure 1-8)	2	2	2
7018569	Fuse (Machines with 220V/60Hz Battery) (Figure 1-8)	2	2	2
7011593	Fuse (Machines with 220V/50Hz Battery) (Figure 1-8)	2	2	2
7011508	Fuse (Machines with 220V/50Hz Battery) (Figure 1-8)	2	2	2
4360321	Switch, Limit (Figures 3-1, 3-2 and 3-4)	1	1	1
2940006	Latch (30electric) (Figure 4-1)	1	1	1
2940074	Latch (35/40/45electric) (Figure 4-2)	1	1	1
7013310-30E	Module, Sevcon Control (30electric) (Figure 7-7)	1	1	1
7013310-35E	Module, Sevcon Control (35electric) (Figure 7-7)	1	1	1

SECTION 9 RECOMMENDED SERVICE PARTS

30/35/40/45 electric Lifts

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		
		1-4	5-9	10 OR MORE
7013310-40E	Module, Sevcon Control (40electric) (Figure 7-7)	1	1	1
7013311	Module, Sevcon Control (45electric) (Figure 7-7)	1	1	1

SECTION 10 SPECIAL OPTIONS

Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
		MISCELLANEOUS SPECIAL OPTIONS	Ref.	
		Airline Installations	Ref.	
	0255170/1282324	1/2" (35electric)	Ref.	
	0255027/1282324	1/2" (40electric)	Ref.	
	0255015/1282324	1/2" (45electric)	Ref.	
	0256270	Aspirator Installation (45electric)	Ref.	
	0270723	Amber Beacon on Platform Installation	Ref.	
	0257438	Battery Installation - Gel-Cell	Ref.	
	0400159	Battery	2	
	0256617	Battery Installation - Less Batteries/Charger	Ref.	
	0400161	Battery Charger Installation - Gel-Cell (220V/60HZ)	Ref.	
	0400160	Battery Charger Assembly	1	
	0257563	Offboard Charger Connector Installation	1	
	0400172	Battery Charger Installation - Gel-Cell (208V/60HZ)	Ref.	
	0400171	Battery Charger Assembly	1	
	0257563	Offboard Charger Connector Installation	1	
	0253241/1281899	Battery Charger Installation - Japanese	Ref.	
	0400135	Battery Charger Assembly	1	
	0257735	Cables and Clamps Installation (S/N 0300033862 Only)	Ref.	
	0256789	Camera Mount Assembly	Ref.	
	0252927	Charger Connection Installation - Offboard	Ref.	
	0257563	Charger Connection Installation - Offboard (Gel-Cell)	Ref.	
	0255168	Charger Extension Cord Installation	Ref.	
	1702788	Decal - Biodegradable Hydraulic Fluid	Ref.	
	1704174	Decal - SYN Biodegradable Hydraulic Fluid (S/N 0300046062 to Present)	Ref.	
	0257500/1282192	Decal Installation - Brazil (30electric)	Ref.	
	2900932	Decal Kit	1	
	0257499/1282191	Decal Installation - Brazil (35electric)	Ref.	
	2900933	Decal Kit	1	
	0257498/1282179	Decal Installation - Brazil (40/45electric)	Ref.	
	2900935	Decal Kit (45electric)	1	

SECTION 10 SPECIAL OPTIONS

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.

SECTION 10 SPECIAL OPTIONS

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0253550	Decal Installation - CSA	Ref.	
	3252221	Nameplate	1	
	0257195	Decal Installation - Government Warranty	Ref.	
	1703179	Decal - Warranty	1	
	0254725/0254704	Decals Installation - Japanese (30electric)	Ref.	
	0254785	Decals Installation - Japanese (35electric)	Ref.	
	0254766	Decals Installation - Japanese (40/45electric)	Ref.	
	0257047/1282704	Decals Installation - Lanyard (GM Spec)	Ref.	
	0255711/0254454	Decals Installation - Latin America (30electric)	Ref.	
	0255713/1282192	Decals Installation - Latin America (35electric)	Ref.	
	0255789/1282192	Decals Installation - Latin America (n35electric)	Ref.	
	2910119	Decal Kit	1	
	0255715/1282179	Decals Installation - Latin America (40electric)	Ref.	
	2910119	Decal Kit	1	
	0255790/1282179	Decals Installation - Latin America (n40electric)	Ref.	
	0255717/1282179	Decals Installation - Latin America (45electric)	Ref.	
		Decals Installation - Simultaneous Drive/Lift/Steer		
	0257452	30electric Domestic Prior to S/N 0300036544	Ref.	
	0257837	30electric Domestic S/N 0300036544 to Present	Ref.	
	1703520	Decal - Domestic (30electric)	1	
	0257453	30electric Japanese Prior to S/N 0300036544	Ref.	
	0257838	30electric Japanese S/N 0300036544 to Present	Ref.	
	1703525	Decal - Japanese (30electric)	1	
	0257454	30electric Latin America Prior to S/N 0300036544	Ref.	
	0257839	30electric Latin America S/N 0300036544 to Present	Ref.	
	1703526	Decal - Latin America Spanish (30electric)	1	
	0257468	35electric Domestic Prior to S/N 0300036648	Ref.	
	0258204	35electric Domestic S/N 0300036648 to Present	Ref.	
	1703520	Decal - Domestic (35electric)	1	
	0257469	35electric Japanese Prior to S/N 0300036648	Ref.	
	0258205	35electric Japanese S/N 0300036648 to Present	Ref.	
	1703525	Decal - Japanese (35electric)	1	
	0257470	35electric Latin America Prior to S/N 0300036648	Ref.	
	0258206	35electric Latin America S/N 0300036648 to Present	Ref.	
	1703526	Decal - Latin America Spanish (35electric)	1	
	0257471	40/45electric Domestic Prior to S/N 0300036648	Ref.	
	0258207	40/45electric Domestic S/N 0300036648 to Present	Ref.	
	1703520	Decal - Domestic (40/45electric)	1	
	0257472	40/45electric Japanese Prior to S/N 0300036648	Ref.	
	0258208	40/45electric Japanese S/N 0300036648 to Present	Ref.	
	1703525	Decal - Japanese (40/45electric)	1	
	0257473	40/45electric Latin America Prior to S/N 0300036648	Ref.	

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.
	0258209	40/45electric Latin America S/N 0300036648 to Present	Ref.	
	1703526	Decal - Latin America Spanish (40/40electric)	1	
	0254877	Decal Installation - United Airlines	Ref.	
	3252314	Nameplate - United Airlines	1	
		Decal Installation - United Rentals	Ref.	
	0270962	35electric (Prior to S/N 0300068199)	1	
	0271896	35electric (S/N 0300068199 to Present)	1	
	0270954	40/45electric	1	
		Decal Installation - Sunbelt Rentals	Ref.	
	0271109	35electric	1	
	0271108	40/45electric	1	
	1282975	Decal Chart - Sunbelt	Ref.	
		Electrical Connector Kits	Ref.	
	1001148902	Amp/Tyco Electrical Connector Kit	Ref.	
	1001148903	Deutsch DT Electrical Connector Kit	Ref.	
	1001148904	Deutsch HD Electrical Connector Kit	Ref.	
	1001148905	Packard Electrical Connector Kit	Ref.	
	1001148906	Various Electrical Connectors Kit	Ref.	
	0257399	Head and Tail Light Installation (40/45electric)	Ref.	
	2920150	Lamp, Head	2	
	2920118	Light, Tail	2	
	0257400	Head and Back-Up Light Installation (40/45electric)	Ref.	
	2920150	Lamp, Head	3	
		Hydraulic Fluids	Ref.	
	2300014	Mobil 424	A/R	
	2300027	Mobil 224H Bio	A/R	
	2300029	Mobil EAL ISO 46 Bio	A/R	
	2300021	Union Carbide Ucon HP5046 Fire Resistant	A/R	
	2901888	Lift Gate Kit	Ref.	
	0257410	Low Batt Lift Interrupt Installation (40/45electric)	Ref.	
	0259631	Low Batt Lift Interrupt Installation (35electric)	Ref.	
	0860848	Box Assembly	1	
	3252537	Nameplate - Low Voltage Interrupt	1	
	2420049	Gauge - Battery Capacity	1	
	4460428	Connector, Strain Relief	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.

SECTION 10 SPECIAL OPTIONS

FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0253804	Ford Spec Installation (30electric)	Ref.	
	0253799	Low Voltage Cutout Installation (30electric)	Ref.	
	0860849	Box Assembly - Low Voltage Cutout	1	
	3252256	Nameplate - Low Voltage Cutout	1	
	2420049	Gauge - Battery Capacity	1	
	4360274	Switch, Push Button	1	
	4460052	Connector, Strain Relief	1	
	3300047	Nut, Conduit	1	
	0960239	Bushing	1	
	0254788/1282201	Overload Cutout With Override (30electric)	Ref.	
	0254790/1282201	Overload Cutout With Override (35/40/45electric)	Ref.	
	0254789/1282201	Overload Cutout Without Override (30electric)	Ref.	
	0254791/1284791	Overload Cutout Without Override (35/40/45electric)	Ref.	
	0256436	Pipe Rack Installation	Ref.	
	0256829	Platform Gate Spring Installation (30/35/40/45electric)	Ref.	
	4160028	Spring, Tension	1	
	0253411	Platform Mesh and Spring Installation (30electric)	Ref.	
	0480074	Belt, Mesh - Gate Top	1	
	0480075	Belt, Mesh - Gate Bottom	1	
	0480076	Belt, Mesh - Sides	2	
	0480077	Belt, Mesh - Back	1	
	4160028	Spring, Tension	1	
		Platform Overload (35/40/45electric)		
	0253411	Prior to October 1996	Ref.	
	0257058	October 1996 to Present	Ref.	
		Platform Padding Installations (35/40/45electric)		
	0255167	26" x 48" Platform Prior to S/N 0300039214	Ref.	
	0258771	26" x 48" Platform S/N 0300039214 to Present	Ref.	
	0256563	26" x 60" Platform Prior to S/N 0300039214	Ref.	
	0258772	26" x 60" Platform S/N 0300039214 to Present	Ref.	
	0256703	Platform Proximity Switches Installation	Ref.	
	4360305	Switch, Proximity	4	
	3539928	Plate, Mounting - Proximity Switch	4	
	4360274	Switch, Push Button	1	
	3251596	Decal - Proximity Switch	1	
	0258918	Rack Utility Assembly	Ref.	

SECTION 10 SPECIAL OPTIONS

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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.
	0257427	Simultaneous Drive/Lift/Steer (Model 30electric Prior to S/N 36544) (Non-UL Models)	Ref	
	0258210	Simultaneous Drive/Lift/Steer (Model 30electric S/N 36544 to Present) (Non-UL Models)	Ref	
	0257428	Simultaneous Drive/Lift/Steer (Model 35 electric Prior to S/N36648) (Non-UL Models)	Ref	
	0258211	Simultaneous Drive/Lift/Steer (Model 35 electric S/ N36648 to Present) (Non-UL Models)	Ref	
	0257429	Simultaneous Drive/Lift/Steer (Models 40electric & 45electric Prior to S/N36648) (Non-UL Models)	Ref	
	0258212	Simultaneous Drive/Lift/Steer (Models 40electric & 45electric S/N36648 to Present) (Non-UL Models)	Ref	
	2901896	Steer Cylinder Anti-Rotation Kit	Ref.	
		Technical Data Supplements	Ref.	
	3120348	MAC Battery Charger Technical Supplement		
	3120323	Operating and Safety Handbook		
	3120351	PQ Controller Technical Supplement		
		Tool For Service:	Ref.	
	2900832	Calibrator Kit	1	
	8896941	Wire Stripper	1	
	7002821	Wire Crimper (To Install Wire Ends to Wires)	1	
	7002823	Pin/Socket Extractor - Universal (To Remove Pins/ Sockets from Connectors)	1	
	4460467	Extractor - 16-18 Gauge (For Removal of Pins/Sockets for Deutsch Connectors)	1	
	4460510	Extractor - 12-14 Gauge (For Removal of Pins/Sockets for Deutsch Connectors)	1	
	7002822	Screwdriver, Potentiometer (To Adjust Drive Controllers)	1	
	7016654	Screwdriver, Magnetic	1	
	7004275	Seal Installation Tool - 1in	1	
	7004276	Seal Installation Tool - 1-1/2in	1	
	7002826	Seal Installation Tool - 2in	1	

SECTION 10 SPECIAL OPTIONS

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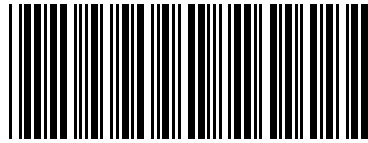
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FIG & ITEM #	PART NUMBER	DESCRIPTION	QTY.	REV.



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