



Illustrated Parts Manual

**Models
450A & 450AJ
Series II**

**S/N 0300160835
TO PRESENT
&
S/N E300001114
TO PRESENT**

3121291

November 27, 2013

ANSI

CE



REVISION LOG

NOTE: The 450A/AJ Series II may be manufactured by JLG Industries in the following countries: USA, Belgium or Romania. Refer to the Serial Number Tag to determine the country of manufacture. The country of manufacture may be determined by the Serial Number. Boom Lifts manufactured in the USA will have a serial number prefix of 03 (i.e. 03XXXXXXXX), Boom Lifts manufactured in Belgium will have a prefix of 13 (i.e. 13XXXXXXXX) and Boom Lifts manufactured in Romania will have a prefix of E3 (i.e. E3XXXXXXXX).

NOTE: Is the Parts Manual you are viewing correct for the machine that you are ordering parts for? See Below:

USA Built Machines Prior to SN 0300124000 - Use Parts Manual p/n 3121243

USA Built Machines SN 0300124000 to SN 0300160835 - Use Parts Manual p/n 3121244

USA Built Machines SN 0300160835 to Present - Use Parts Manual p/n 3121291

Belgium Built Machines Prior to SN 1300006000 - Use Parts Manual p/n 3121243

Belgium Built Machines SN 1300006000 to Present - Use Parts Manual p/n 3121244

Romanian Built Machines SN E300000100 to SN E300001114 - Use Parts Manual P/N 3121244

Romanian Built Machines SN E300001114 to Present - Use Parts Manual P/N 3121291

NOTE: USA Built Machines with SNs 0300159794, 0300159795, 0300160088 & 0300160456 are also built to the same specs as USA Built Machines SN 0300160835 to Present - Use Parts Manual p/n 3121291.

Romanian Built Machine with SN E300001067 is built to the same specs as Romanian Built Machines SN E300001114 to Present - Use Parts Manual p/n 3121291.

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REVISION LOG

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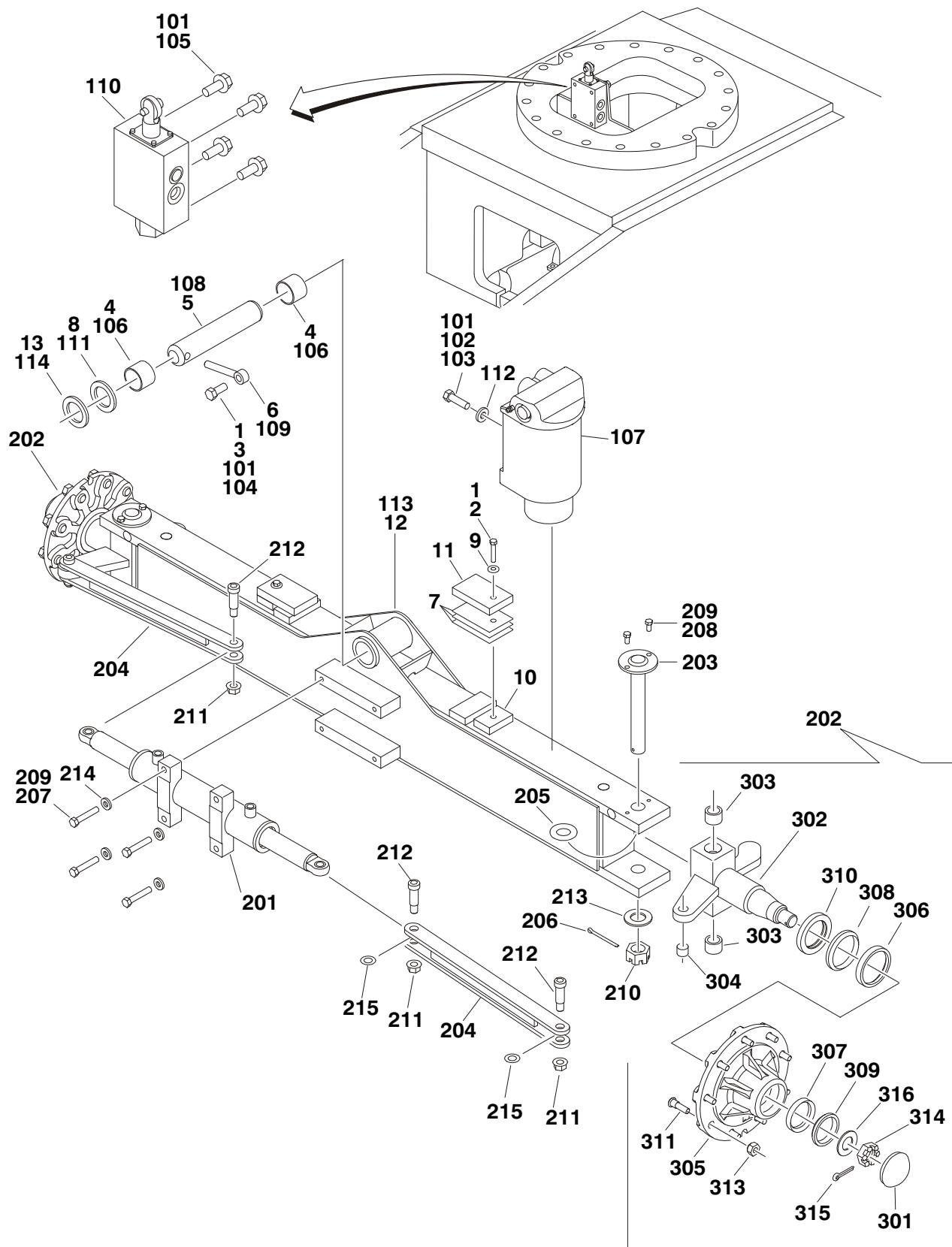
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SECTION 1

FRAME

SECTION 1 FRAME

FIGURE 1-1.AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW BAR



SECTION 1 FRAME

FIGURE 1-1. AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW BAR

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: 2WD Machines are USA Built Machines Only.	
	1001139695	Ref	FIXED AXLE INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0641616	2	Bolt 3/8in-16NC x 2in	
3	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
4	0961950	2	Bushing	
5	3422592	1	Pin, Axle Pivot	
6	3841258	1	Keeper, Pin	
7	4071121	2	Shim	
8	4740229	1	Thrustwasher	
9	4751600	2	Flatwasher 3/8in Regular	
10	1001093846	2	Plate	
11	1001093851	2	Plate, Shim	
12	1001139704	1	Axle	
13	4071101	1	Shim	
	1001139690	Ref	OSCILLATING AXLE INSTALLATION	C
101	0100011	AR	Compound, Locking	
102	0100038	AR	Primer, Locking #7471	
103	0641814	8	Bolt 1/2in-13NC x 1-3/4in	
104	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
105	0791506	4	Screw, 5/16in-18NC x 3/4in	
106	0961950	2	Bushing	
107	1684465	2	Lockout Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
108	3422592	1	Pin, Axle Pivot	
109	3841258	1	Keeper, Pin	
110	4641265	1	Lockout Valve Assembly	
111	4740229	1	Thrustwasher	
112	4891800	8	Flatwasher, Hardened 1/2in	
113	1001139704	1	Axle	
114	4071101	1	Shim	
	1001139697	Ref	STEERING INSTALLATION	A
201	1001143434	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
202	2780230	2	Hub/Spindle Assembly (See Items 301 to 316 for Breakdown)	
203	3422692	2	Kingpin	
204	1001140570	2	Tie-Rod	
205	0440162	2	Thrustwasher	
206	3450808	2	Pin, Cotter 1/4in x 2in	
207	0681822	4	Bolt 1/2in-13NC x 2-3/4in (Grade 8)	
208	0641606	4	Bolt 3/8in-16NC x 3/4in	
209	0100011	AR	Compound, Locking	
210	3323003	2	Nut 1-1/4in-12NF	

SECTION 1 FRAME

FIGURE 1-1. AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW BAR (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
211	3312008	4	Nut 5/8in-11NC	
212	3900109	4	Screw, Shoulder	
213	4713000	2	Flatwasher 1-1/4in	
214	4891800	2	Flatwasher 1/2in Hardened	
215	4740086	2	Thrustwasher	
	2780230	Ref	HUB ASSEMBLY	A
301	7020033	2	Cap, Dust (1 per Assembly)	
302	7020034	2	Spindle Assembly (1 per Assembly)	
303	0961951	4	Bushing (2 per Assembly)	
304	0962140	2	Bearing (1 per Assembly)	
305	7020035	2	Hub (1 per Assembly) (Includes 306 & 307)	
306	7020036	2	Cup, Bearing - Inner (1 per Assembly)	
307	7020038	2	Cup, Bearing - Outer (1 per Assembly)	
308	7020037	2	Cone, Bearing - Inner (1 per Assembly)	
309	7020039	2	Cone, Bearing - Outer (1 per Assembly)	
310	7020040	2	Seal (1 per Assembly)	
311	7020041	18	Stud, Wheel (9 per Assembly)	
312	Not Used			
313	7020042	18	Lugnut (9 per Assembly)	
314	7020054	2	Nut, Castle (1 Per Assembly)	
315	3450608	2	Pin, Cotter (1 Per Assembly)	
316	7020055	2	Flatwasher (1 Per Assembly)	

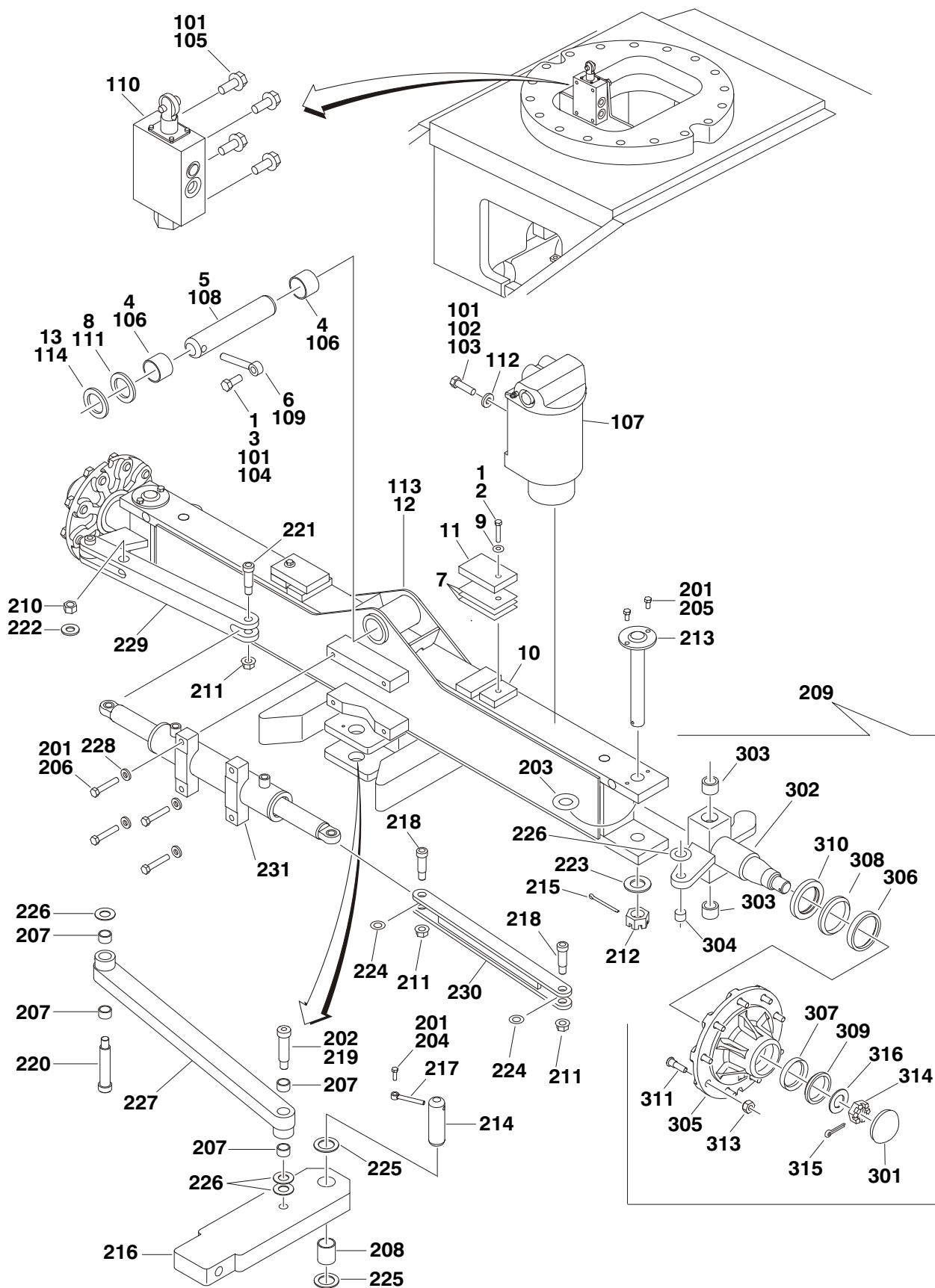
SECTION 1 FRAME

FIGURE 1-1. AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW BAR (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 1 FRAME

FIGURE 1-2.AXLE AND STEERING INSTALLATION - 2WD WITH TOW BAR



SECTION 1 FRAME

FIGURE 1-2. AXLE AND STEERING INSTALLATION - 2WD WITH TOW BAR

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: 2WD Machines are USA Built Machines Only.	
	1001139694	Ref	FIXED AXLE INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0641616	2	Bolt 3/8in-16NC x 2in	
3	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
4	0961950	2	Bushing	
5	3422592	1	Pin, Axle Pivot	
6	3841258	1	Keeper, Pin	
7	4071121	2	Shim	
8	4740229	1	Thrustwasher	
9	4751600	2	Flatwasher 3/8in Regular	
10	1001093846	2	Plate	
11	1001093851	2	Plate, Shim	
12	1001139705	1	Axle	
13	4071101	1	Shim	
	1001139693	Ref	OSCILLATING AXLE INSTALLATION	B
101	0100011	AR	Compound, Locking	
102	0100038	AR	Primer, Locking #7471	
103	0641814	8	Bolt 1/2in-13NC x 1-3/4in	
104	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
105	0791506	4	Screw, 5/16in-18NC x 3/4in	
106	0961950	2	Bushing	
107	1684465	2	Lockout Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
108	3422592	1	Pin, Axle Pivot	
109	3841258	1	Keeper, Pin	
110	4641265	1	Lockout Valve Assembly	
111	4740229	1	Thrustwasher	
112	4891800	8	Flatwasher, 1/2in Hardened	
113	1001139705	1	Axle	
114	4071101	1	Shim	
	1001139901	Ref	STEERING INSTALLATION	B
201	0100011	AR	Compound, Locking	
202	0100038	AR	Primer, Locking #7471	
203	0440162	2	Thrustwasher	
204	0641508	1	Bolt 5/16in-18NC x 1in	
205	0641606	4	Bolt 3/8in-16NC x 3/4in	
206	0681822	4	Bolt 1/2in-13NC x 2-3/4in (Grade 8)	
207	0962292	4	Bushing	
208	0962348	1	Bushing	
209	2780230	2	Hub/Spindle Assembly (See Items 301 to 316 for Breakdown)	
210	3272205	1	Locknut 1in-8NC (Grade 8)	
211	3312008	4	Nut 5/8in-11NC	

SECTION 1 FRAME

FIGURE 1-2. AXLE AND STEERING INSTALLATION - 2WD WITH TOW BAR (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
212	3323003	2	Nut 1-1/4in-12NF	
213	3422692	2	Kingpin	
214	3422848	1	Pin, Hitch	
215	3450808	2	Pin, Cotter 1/4in x 2in	
216	3574235	1	Plate, Tow Bar Pivot	
217	3841143	1	Keeper	
218	3900109	2	Screw, Shoulder 3/4in x 1-3/4in	
219	3900295	1	Screw, Shoulder 1in x 3in	
220	3900296	1	Screw, Shoulder 1in x 4-1/2in	
221	3900327	2	Screw, Shoulder 3/4in x 2in	
222	4712400	1	Flatwasher 7/8in Thin	
223	4713000	2	Flatwasher 1-1/4in Thin	
224	4740086	4	Thrustwasher	
225	4740155	2	Thrustwasher	
226	4740491	3	Thrustwasher	
227		1	Link Options: 4846802 SN 0300160835 to SN 0300173281 1001150315 SN 0300173281 to Present	
228	4891800	4	Flatwasher 1/2in Hardened	
229		1	Tie-Rod Options: 1001139877 SN 0300160835 to SN 0300173281 1001150314 SN 0300173281 to Present	
230	1001140570	1	Tie-Rod	
231	1001143434	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown): 2780230 Ref HUB ASSEMBLY A	
301	7020033	2	Cap, Dust (1 per Assembly)	
302	7020034	2	Spindle Assembly (1 per Assembly)	
303	0961951	4	Bushing (2 per Assembly)	
304	0962140	2	Bearing (1 per Assembly)	
305	7020035	2	Hub (1 per Assembly) (Includes 306 & 307)	
306	7020036	2	Cup, Bearing - Inner(1 per Assembly)	
307	7020038	2	Cup, Bearing - Outer (1 per Assembly)	
308	7020037	2	Cone, Bearing - Inner (1 per Assembly)	
309	7020039	2	Cone, Bearing - Outer (1 per Assembly)	
310	7020040	2	Seal (1 per Assembly)	
311	7020041	18	Stud, Wheel (9 per Assembly)	
312	Not Used			
313	7020042	18	Lugnut (9 per Assembly)	
314	7020054	2	Nut, Castle (1 Per Assembly)	
315	3450608	2	Pin, Cotter (1 Per Assembly)	
316	7020055	2	Flatwasher (1 Per Assembly)	

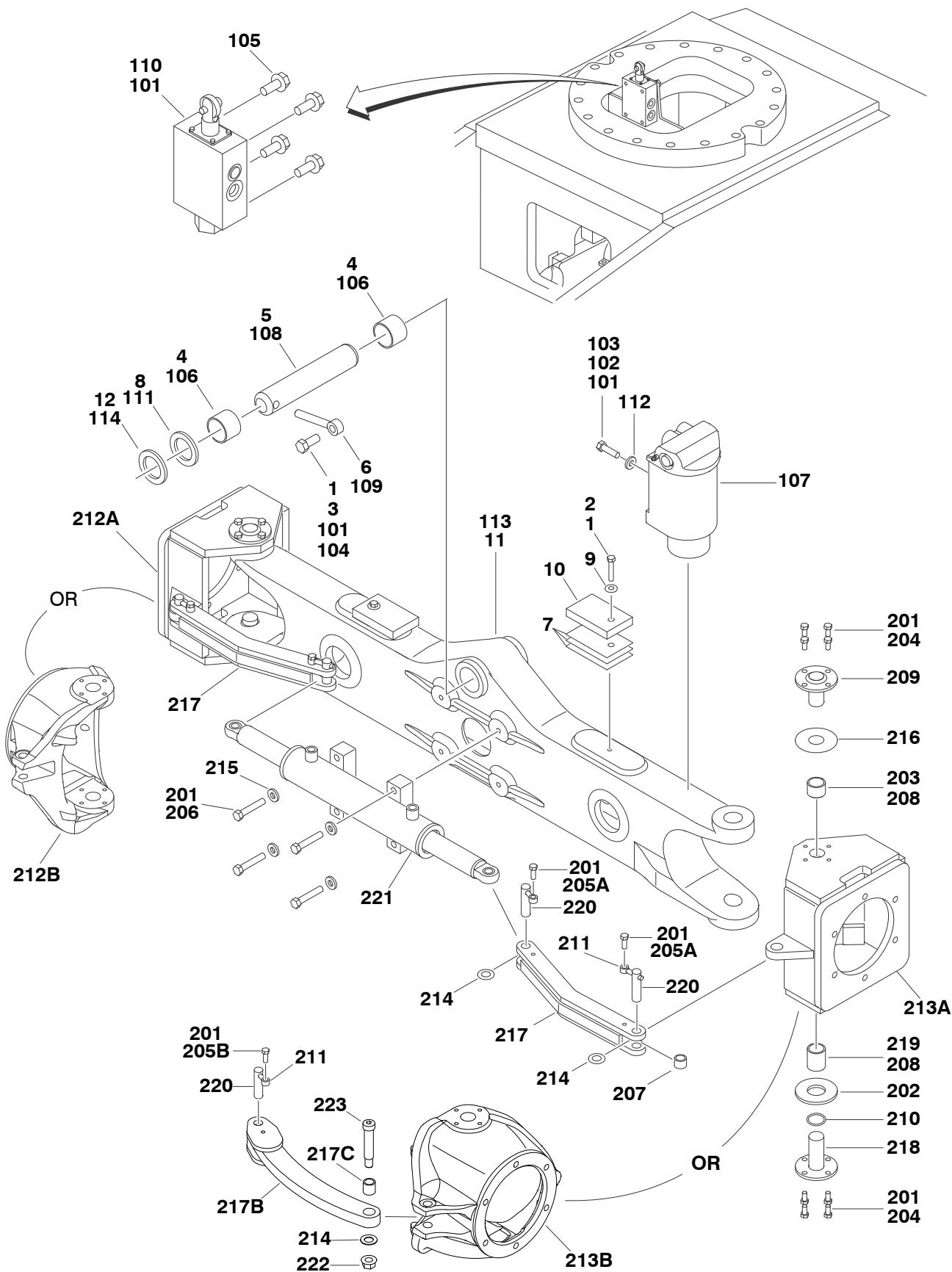
SECTION 1 FRAME

FIGURE 1-2. AXLE AND STEERING INSTALLATION - 2WD WITH TOW BAR (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 1 FRAME

FIGURE 1-3.AXLE AND STEERING INSTALLATION - 4WD



SECTION 1 FRAME

FIGURE 1-3. AXLE AND STEERING INSTALLATION - 4WD

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001139495	Ref	FIXED AXLE INSTALLATION	B
		Ref	Note: 4WD Fixed Axle Machines are USA Built Machines Only.	
1	0100011	AR	Compound, Locking	
2	0641622	2	Bolt 3/8in-16NC x 2-3/4in	
3	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
4	0961950	2	Bushing	
5	3422592	1	Pin, Axle Pivot	
6	3841258	1	Keeper, Pin	
7	4071121	2	Shim	
8	4740229	1	Thrustwasher	
9	4751600	2	Flatwasher 3/8in Regular	
10	1001093851	2	Plate, Stop	
11	1001098130	1	Axle	
12	4071101	1	Shim	
	1001139087	Ref	OSCILLATING AXLE INSTALLATION	C
101	0100011	AR	Compound, Locking	
102	0100019	AR	Primer, Locking	
103	0641814	8	Bolt 1/2in-13NC x 1-3/4in	
104	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
105	0791506	4	Screw, 5/16in-18NC x 3/4in	
106	0961950	2	Bushing	
107	1684465	2	Lockout Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
108	3422592	1	Pin, Axle Pivot	
109	3841258	1	Keeper, Pin	
110	4641265	1	Lockout Valve Assembly	
111	4740229	1	Thrustwasher	
112	4891800	8	Flatwasher, 1/2in Hardened	
113	1001098130	1	Axle	
114	4071101	1	Shim	
	1001139049	Ref	STEERING INSTALLATION	B
	1001139935	Ref	USA Built Machines SN 0300160835 to SN 0300165399	B
	1001139935	Ref	USA Built Machines SN 0300165399 to Present	B
	1001139935	Ref	Romanian Built Machines SN E300001114 to Present	B
201	0100011	AR	Compound, Locking	
202	0440271	2	Thrustwasher	
203	0440291	2	Bushing	
204	0641606	16	Bolt 3/8in-16NC x 3/4in	
205		AR	Bolt 3/8in-16NC Options:	
205A	0681608	4	Bolt 1in Grade 8	
205B	0681607	2	Bolt 7/8in Grade 5	
206	0681820	4	Bolt 1/2in-13NC x 2-1/2in (Grade 8)	
207	0962140	2	Bushing	

SECTION 1 FRAME

FIGURE 1-3. AXLE AND STEERING INSTALLATION - 4WD (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
208	3020029	AR	Grease, Bearing (Not Shown)	
209		2	Kingpin Options: Kingpin (USA Built Machines SN 0300161285 to SN 0300165399) Kingpin (USA Built Machines SN 0300165399 to Present) Kingpin (Romanian Built Machines SN E300001114 to Present)	
	3423081			
	1001139141			
	1001139141			
210	3780182	2	O-Ring	
211	3841520	4	Keeper	
212		1	Spindle (Left Side) Options: USA Built Machines SN 0300161285 to SN 0300165399	
212A	4130405		USA Built Machines SN 0300165399 to Present	
212B	1001139645		Romanian Built Machines SN E300001114 to Present	
	1001139645			
213		1	Spindle (Right Side) Options: USA Built Machines SN 0300161285 to SN 0300165399	
213A	4130406		USA Built Machines SN 0300165399 to Present	
213B	1001139645		Romanian Built Machines SN E300001114 to Present	
	1001139645			
214	4740086	4	Thrustwasher	
215	4891800	4	Flatwasher 1/2in Hardened	
216	1001138780	AR	Shim (USA Built Machines SN 0300161285 to SN 0300165399 Only)	
217		2	Tie-Rod Options: Tie-Rod (USA Built Machines SN 0300161285 to SN 0300165399)	
217A	1001139048			
217B	1001139892		Tie-Rod (USA Built Machines SN 0300165399 to Present & Romanian Built Machines SN E300001114 to Present)	
	1001139892			
217C	1001139943	2	Bushing for 1001139892 Tie-Rod (1 Per Tie-Rod)	
218	1001139141	2	Kingpin	
219	1001139476	2	Bearing	
220		AR	Pin Options: Pin (USA Built Machines SN 0300161285 to SN 0300165399)	
	1001139586	4		
	1001116867	2	Pin (USA Built Machines SN 0300165399 to Present & Romanian Built Machines SN E300001114 to Present)	
221	1001143434	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
222	3312008	AR	Nut, Flanged 5/8in-11NC	
223	3900255	2	Screw, Shoulder	

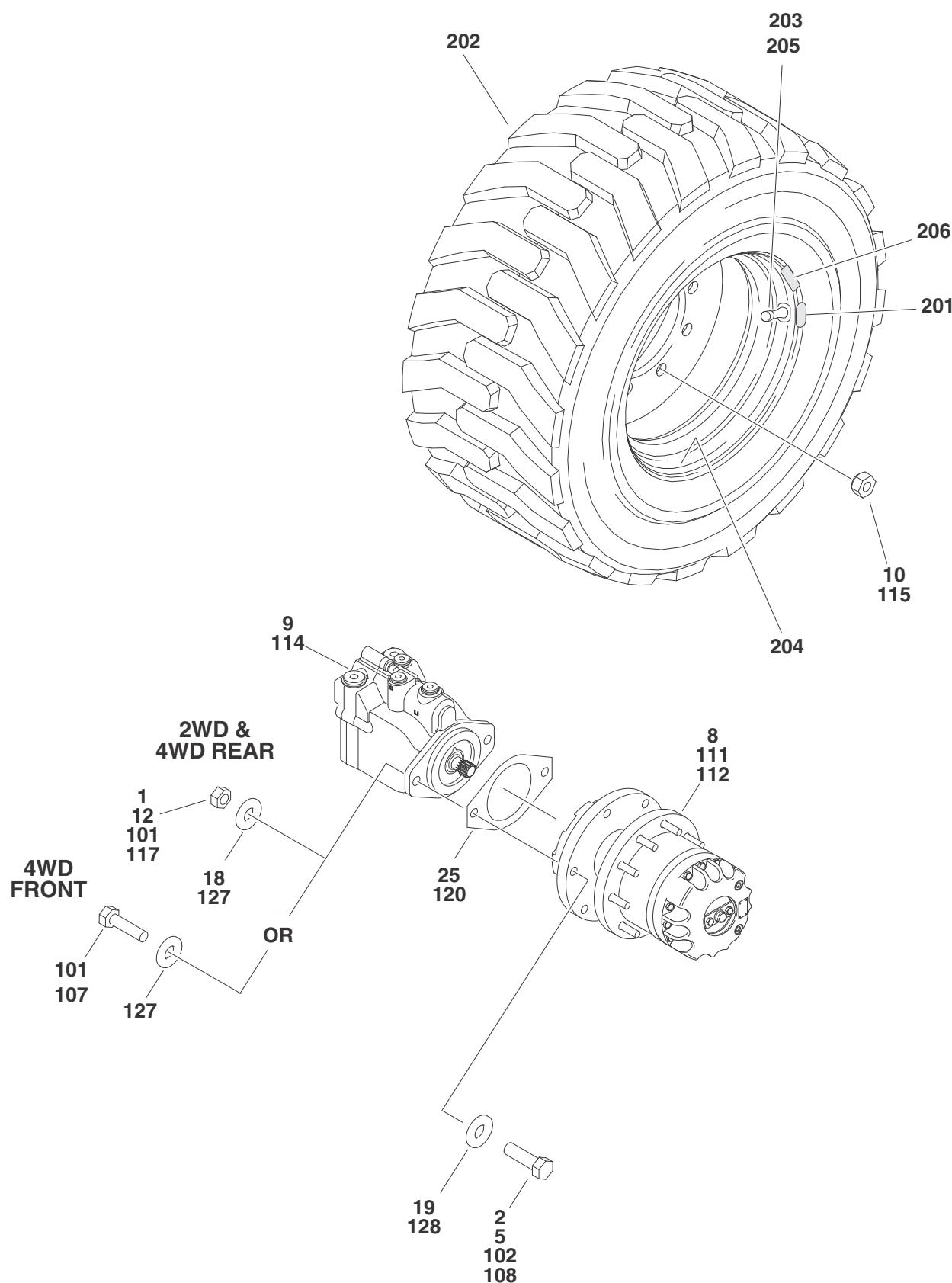
SECTION 1 FRAME

FIGURE 1-3. AXLE AND STEERING INSTALLATION - 4WD (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATION



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FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0275853	Ref	WHEEL DRIVE INSTALLATION (2WD)	
		Ref	Note: 2WD Machines are USA Built Machines Only.	
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3 to 4	Not Used			
5	0682014	12	Bolt 5/8in-11NC x 1-3/4in (Grade 8)	
6 to 7	Not Used			
8	2780267	2	Drive Hub/Brake Assembly (See DRIVE HUB/BRAKE ASSEMBLY (REAR) For Breakdown)	
9	3160351	2	Drive Motor Assembly (See DRIVE MOTOR ASSEMBLY (2WD) for Breakdown)	
10	3300106	18	Lugnut	
11	Not Used			
12	3311801	4	Nut 1/2in-13NC	
13 to 17	Not Used			
18	4891800	4	Flatwasher 1/2in Hardened	
19	4892000	12	Flatwasher 5/8in Hardened	
20 to 24	Not Used			
25	3960526	2	Gasket	
	0275854	Ref	WHEEL DRIVE INSTALLATIONS (4WD)	C
101	0100011	AR	Compound, Locking	
102	0100019	AR	Compound, Locking	
103 to 106	Not Used			
107	0681810	4	Bolt 1/2in-13NC x 1-1/4in (Grade 8) (Front Axle)	
108	0682014	12	Bolt 5/8in-11NC x 1-3/4in (Grade 8)	
109 to 110	Not Used			
111	2780267	2	Drive Hub/Brake Assembly (Rear) (See DRIVE HUB/BRAKE ASSEMBLY (REAR) For Breakdown)	
112	2780268	2	Drive Hub/Brake Assembly (Front) (See DRIVE HUB ASSEMBLY (FRONT) (4WD ONLY) For Breakdown)	
113	Not Used			
114	3160348	4	Drive Motor Assembly (See FDRIVE MOTOR ASSEMBLY (4WD) for Breakdown)	
115	3300106	36	Lugnut	
116	Not Used			
117	3311801	4	Nut 1/2in-13NC (Rear Axle)	
118 to 119	Not Used			
120	3960526	4	Gasket	
121 to 126	Not Used			
127	4891800	8	Flatwasher 1/2in Hardened	
128	4892000	24	Flatwasher 5/8in Hardened	

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FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	TIRE AND WHEEL INSTALLATIONS	
	0270091	Ref	12 x 16.5 Pneumatic (Available on ANSI, ANSI Export, CSA & Japanese Specs)	C
	0272310	Ref	12 x 16.5 Pneumatic TS (Available on ANSI, ANSI Export, CSA & Japanese Specs)	B
	0270650	Ref	12 x 16.5 Pneumatic Non-Marking (Available on ANSI, ANSI Export, CSA & Japanese Specs)	B
	0270092	Ref	12 x 16.5 Foam-Filled (Available on All Specs)	C
	0270653	Ref	12 x 16.5 Foam-Filled Non-Marking (Available on All Specs)	B
	0271995	Ref	14 x 17.5 Pneumatic (Available on ANSI, ANSI Export, CSA & Japanese Specs)	B
	0271998	Ref	14 x 17.5 Foam-Filled (Available on All Specs)	A
	0272311	Ref	14 x 17.5 Pneumatic TS (Available on ANSI, ANSI Export, CSA & Japanese Specs)	B
	0258029	Ref	33/1550 x 16.5 Pneumatic (Available on ANSI, ANSI Export, CSA & Japanese Specs)	B
	0272300	Ref	33/1550 x 16.5 Pneumatic TS (Available on ANSI, ANSI Export, CSA & Japanese Specs)	1
	0258031	Ref	33/1550 x 16.5 Foam-Filled (Available on All Specs)	B
	1001151030	Ref	33 x 16LL500 Pneumatic Turf & Sand (Available on 450AJ Series II ANSI, ANSI Export, CSA & Japanese Specs)	A
	Use 1001148863	2	12 x 16.5 Pneumatic Right Side (was p/n 0270074)	B/B
	Use 1001148871	2	12 x 16.5 Pneumatic Right Side (TS) (was p/n 0272336)	B/B
	Use 1001148867	2	12 x 16.5 Pneumatic Right Side (See Note) (was p/n 0270651)	B/B
	Use 1001148864	2	12 x 16.5 Pneumatic Left Side (was p/n 0270075)	B/B
	Use 1001148872	2	12 x 16.5 Pneumatic Left Side (TS) (was p/n 0272337)	B/B
	Use 1001148868	2	12 x 16.5 Pneumatic Left Side (See Note) (was p/n 0270652)	B/B
	Use 1001148865	2	12 x 16.5 Foam-Filled Right Side (See Note) (was p/n 0270076)	C/C
	Use 1001148869	2	12 x 16.5 Foam-Filled Right Side (Non-Marking) (See Note) (was p/n 0270654)	C/C
	Use 1001148866	2	12 x 16.5 Foam-Filled Left Side (See Note) (was p/n 0270077)	C/C
	Use 1001148870	2	12 x 16.5 Foam-Filled Left Side (Non-Marking) (See Note) (was p/n 0270655)	C/C
	Use 1001148873	2	14 x 17.5 Pneumatic Right Side (was p/n 0271993)	B/B
	Use 1001148877	2	14 x 17.5 Pneumatic Right Side (TS) (was p/n 0272352)	B/B
	Use 1001148874	2	14 x 17.5 Pneumatic Left Side (was p/n 0271994)	B/B
	Use 1001148878	2	14 x 17.5 Pneumatic Left Side (TS) (was p/n 0272353)	B/B
	Use 1001148875	2	14 x 17.5 Foam-Filled Right Side (See Note) (was p/n 0271997)	B/B
	Use 1001148876	2	14 x 17.5 Foam-Filled Left Side (See Note) (was p/n 0271996)	B/B
	0257755	2	33/1550 x 16.5 Pneumatic Right Side	C
	0272360	2	33/1550 x 16.5 Pneumatic TS Right Side	A
	0257756	2	33/1550 x 16.5 Pneumatic Left Side	C
	0272361	2	33/1550 x 16.5 Pneumatic TS Left Side	A
	0258011	2	33/1550 x 16.5 Foam-Filled Right Side	E
	0258012	2	33/1550 x 16.5 Foam-Filled Left Side	E
	1001151026	4	33 x 16LL500 Pneumatic Turf & Sand	B

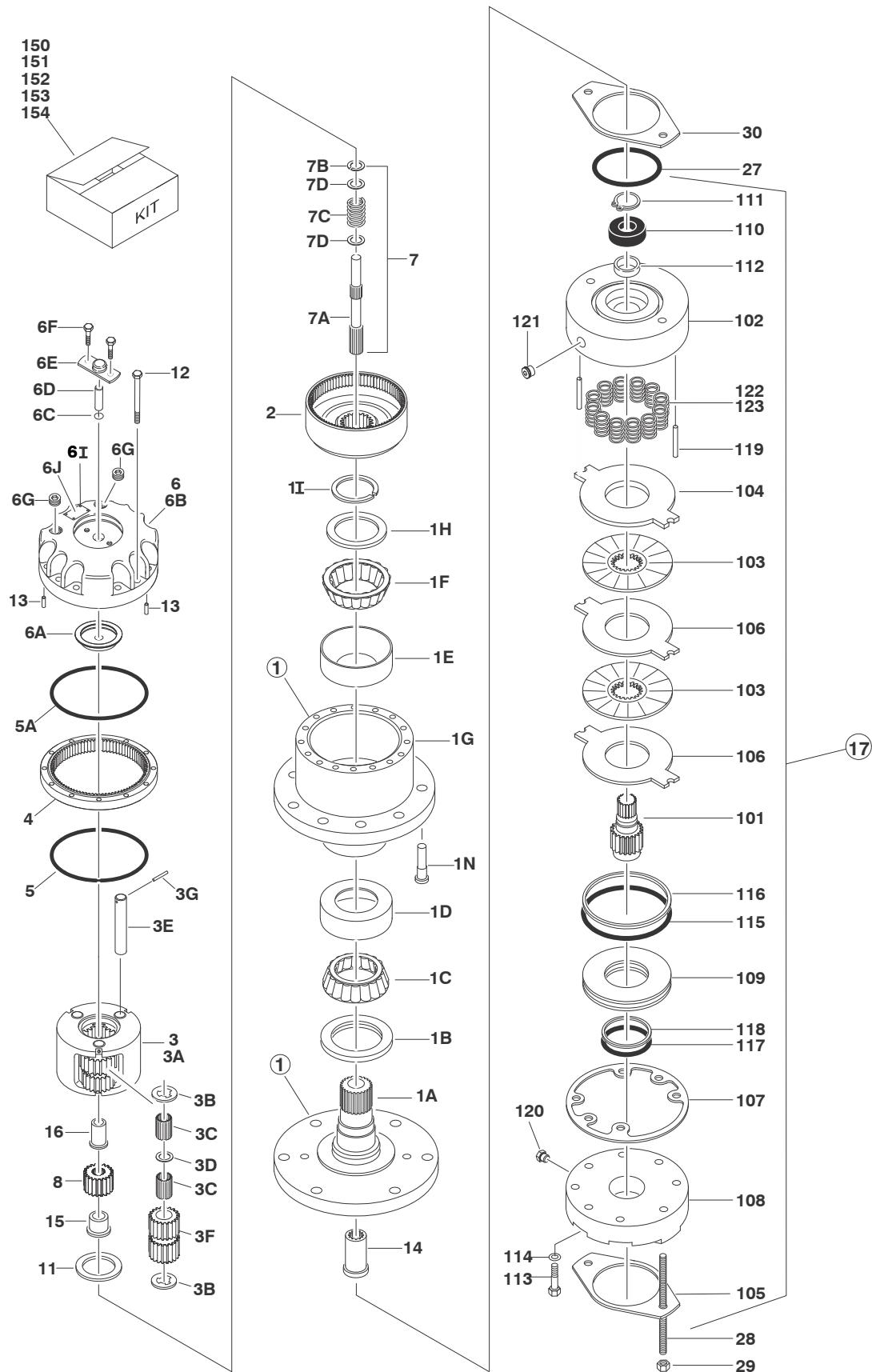
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FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	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.	
201	1702740 1703067	1	Decal Options: Decal - 90PSI (Pneumatic Only except Turf & Sand Tire) Decal - 40PSI (Turf & Sand Tire)	
202	4520216 4520240 4520259 4520217 4520262	1	Tire Options: 12 x 16.5 NHS 12 x 16.5 Non-Marking 14 x 17.5 NHS 33/1550 x 16.5 NHS 33 x 16LL500 Turf & Sand	
203	4640113 8786514	1	Valve Stem Options (Pneumatic Only): All except 33/1550 x 16.5 Foam-Filled Tire & Wheel Assy 33/1550 x 16.5 Foam-Filled Tire & Wheel Assy Only	A
204	1001149953 Use 1001147274 4860179 Use 1001146397 4860237	1	Cap, Valve Stem (Foam Filled Only) Rim, Wheel Options: 16.5 x 9.75 (Use with 12 x 16.5 Tires) (was p/n 4860213) 16.5 x 12 (Use with 33/1550 x 16.5 Tires) 17.5 x 10.5 (Use with 14 x 17.5 Tires) (was p/n 4860198) 19.5 x 14 (Use with 33 x 16LL500 Turf & Sand Tires)	
205	1120552	1	Cap, Valve Stem (TS Tire Only)	
206	1705364	1	Decal - Tire Sealant (TS Tire Only)	

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FIGURE 1-5.DRIVE HUB/BRAKE ASSEMBLY (REAR)



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FIGURE 1-5. DRIVE HUB/BRAKE ASSEMBLY (REAR)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	2780267	Ref	DRIVE HUB/BRAKE ASSEMBLY	D
1	See Note	1	Spindle/Housing Assembly (Note: Not Available - Individual Components)	
1A	7017059	1	Spindle	
1B	7001998	1	Seal	
1C	7010429	1	Cone, Bearing (Includes Item 1D)	
1D	7010429	1	Cup, Bearing (Includes Item 1C)	
1E	7000257	1	Cup, Bearing	
1F	7000258	1	Cone, Bearing	
1G	7007601	1	Housing/Ring Gear	
1H	7000232	1	Thrustwasher	
1I	7000229	1	Ring, Retaining	
1J	Not Used			
1K	Not Used			
1L	Not Used			
1M	Not Used			
1N	7007640	9	Stud, Wheel	
2	7000246	1	Gear, Internal	
3	7024712	1	Carrier Assembly	
3A	Use 7024712	1	Carrier	
3B	Use 7024712	6	Ring, Retaining	
3C	Use 7024712	AR	Bearing, Needle	
3D	Use 7024712	3	Thrustwasher	
3E	Use 7024712	3	Shaft, Planet	
3F	Use 7024712	3	Gear, Planet	
3G	Use 7024712	3	Rollpin	
4	7000248	1	Ring Gear	
5	7000230	1	O-Ring	
5A	7017070	1	O-Ring	
6	Use 70001349	1	Cover Assembly (was p/n 7017090)	
6A	Use 70001349	1	Spacer, Thrust (was p/n 7017097)	
6B	Use 70001349	1	Plate, Cover (was p/n 7017091)	
6C	Use 70001349	1	O-Ring (was p/n 7017095)	
6D	Use 70001349	1	Rod, Disconnect (was p/n 7017092)	
6E	Use 70001349	1	Cap, Disengage (was p/n 7017093)	
6F	Use 70001349	2	Bolt (was p/n 0641404)	
6G	7017094	1	Plug, Pipe	
6H	Not Used			
6I	See Note	4	Rivet (Note: Not Available - Purchase Locally)	
6J	See Note	1	Plate, ID (Note: Not Available for Purchase)	
7		1	Input Shaft Assembly	
7A	7024714	1	Shaft	
7B	7000261	1	Ring, Retaining	
7C	7000262	1	Spring	
7D	7000263	2	Spacer, Thrust	
8	7024713	1	Gear, Sun	
9 to 10	Not Used			
11	7000253	1	Thrustwasher	

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FIGURE 1-5. DRIVE HUB/BRAKE ASSEMBLY (REAR) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
12	7017067	12	Bolt	
13	7017080	4	Pin, Dowell	
14	7000206	1	Coupling	
15	7024715	1	Spacer, Input	
16	7024716	1	Spacer, Input	
17	7024182	1	Brake Assembly (See Items 101-154 for Breakdown)	
18 to 26	Not Used			
27	7024705	1	O-Ring	
28	7024717	2	Rod, Threaded	
29	7024718	2	Nut 1/2in-13NC	
30	7000731	1	Gasket	
	7024182	Ref	BRAKE ASSEMBLY	
101	7024189	1	Shaft	
102	Use 7024182	1	Housing	
103	Use 7024193	2	Plate, Friction	
104	Use 7024193	1	Plate, Pressure	
105	7000731	1	Gasket	
106	Use 7024193	2	Plate, Outer	
107	See Note	1	Gasket (Note: Use Item 150, 153 or 154.)	
108	7024191	1	Cylinder	
109	7024192	1	Piston	
110	See Note	1	Bearing, Ball (Note: Use Item 154)	
111	See Note	1	Ring, Retaining (Note: Use Item 154)	
112	See Note	1	Seal, Shaft (Note: Use Item 154)	
113	See Note	6	Capscrew (Note: Not Available - Purchase Locally)	
114	See Note	6	Lockwasher (Note: Not Available - Purchase Locally)	
115	Use 7024194	1	O-Ring	
116	Use 7024194	1	Ring, Back-up	
117	Use 7024194	1	O-Ring	
118	Use 7024194	1	Ring, Back-up	
119	7024190	2	Pin, Dowel	
120	See Note	1	Plug (Note: Not Available - Purchase Locally)	
121	See Note	2	Plug (Note: Not Available - Purchase Locally)	
122	Use 7024196	10	Spring Kit (Natural)	
123	Use 7024196	2	Spring Kit (Blue)	
124 to 149	Not Used			
150	7024194	1	Seal Kit, Brake (Includes Items 105, 107 & 115-118)	
151	Use 7024196	1	Spring Kit, Brake (Includes 12 Natural Colored Springs Item 122 (was p/n 7024195)	
152	7024196	1	Spring Kit, Brake (Includes 12 Natural Colored Springs Item 122 & 2 Blue Colored Springs Item 123)	
153	7024193	1	Friction Disc Kit, Brake (Includes Items 103, 104, 106 & 107)	
154	7024197	1	Bearing Kit - 7024182 Brake (Includes Items 107 & 110-112)	

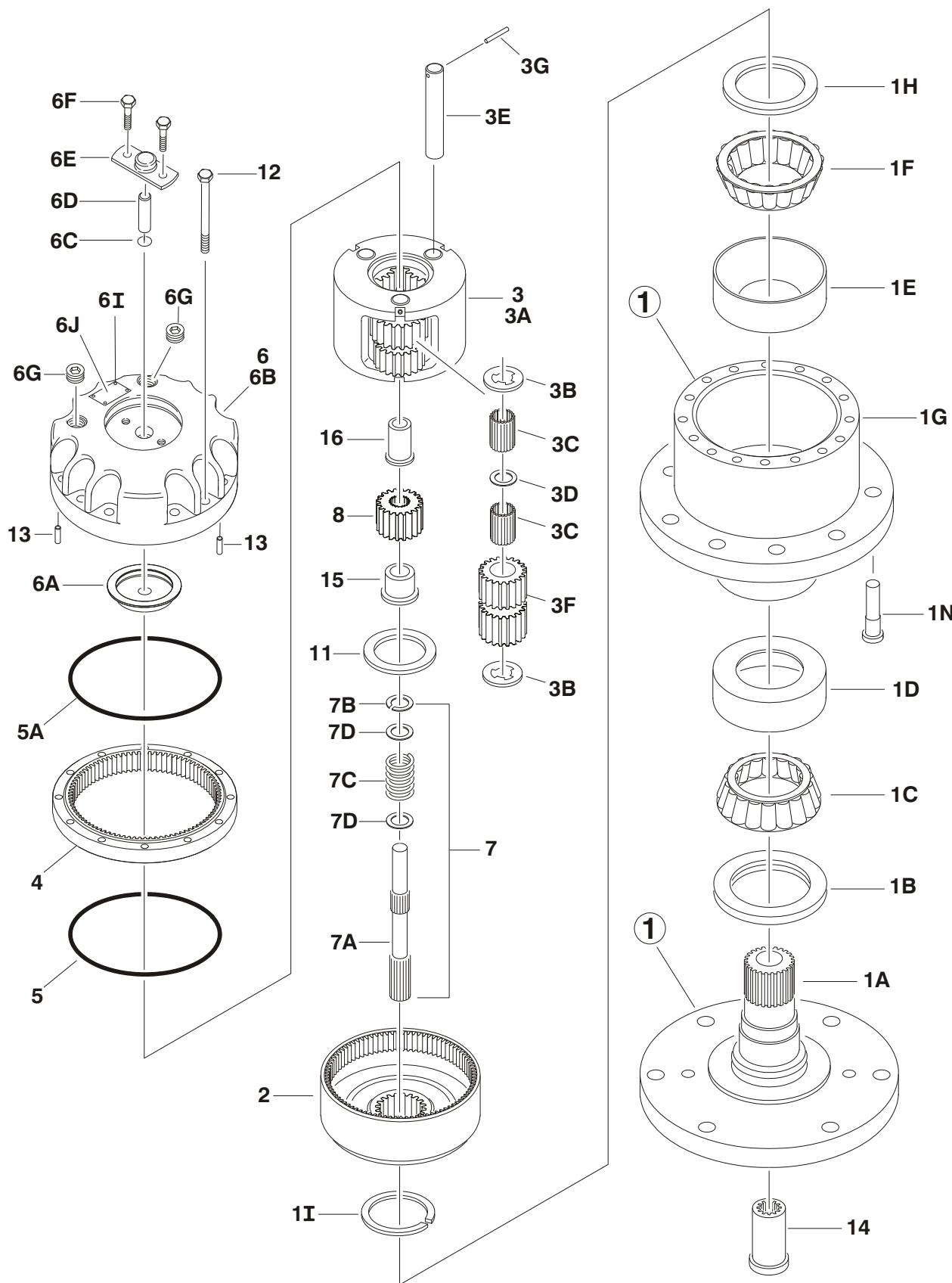
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FIGURE 1-5. DRIVE HUB/BRAKE ASSEMBLY (REAR) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-6. DRIVE HUB ASSEMBLY (FRONT) (4WD ONLY)



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FIGURE 1-6. DRIVE HUB ASSEMBLY (FRONT) (4WD ONLY)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	2780268	Ref	DRIVE HUB ASSEMBLY	C
1	See Note	1	Spindle/Housing Assembly (Note: Not Available - Individual Components)	
1A	7017059	1	Spindle	
1B	7001998	1	Seal	
1C	7010429	1	Cone, Bearing (Includes Item 1D)	
1D	7010429	1	Cup, Bearing (Includes Item 1C)	
1E	7000257	1	Cup, Bearing	
1F	7000258	1	Cone, Bearing	
1G	7007601	1	Housing/Ring Gear	
1H	7000232	1	Thrustwasher	
1I	7000229	1	Ring, Retaining	
1J to 1M	Not Used			
1N	7007640	9	Stud, Wheel	
2	7000246	1	Gear, Internal	
3	7024712	1	Carrier Assembly	
3A	Use 7024712	1	Carrier	
3B	Use 7024712	6	Ring, Retaining	
3C	Use 7024712	AR	Bearing, Needle	
3D	Use 7024712	3	Thrustwasher	
3E	Use 7024712	3	Shaft, Planet	
3F	Use 7024712	3	Gear, Planet	
3G	Use 7024712	3	Rollpin	
4	7000248	1	Ring Gear	
5	7000230	1	O-Ring	
5A	7017070	1	O-Ring	
6	Use 70001349	1	Cover Assembly (was p/n 7017090)	
6A	Use 70001349	1	Spacer, Thrust (was p/n 7017097)	
6B	Use 70001349	1	Plate, Cover (was p/n 7017091)	
6C	Use 70001349	1	O-Ring (was p/n 7017095)	
6D	Use 70001349	1	Rod, Disconnect (was p/n 7017092)	
6E	Use 70001349	1	Cap, Disengage (was p/n 7017093)	
6F	Use 70001349	2	Bolt (was p/n 0641404)	
6G	7017094	1	Plug, Pipe	
6H	Not Used			
6I	See Note	4	Rivet (Note: Not Available - Purchase Locally)	
6J	See Note	1	Plate, ID (Note: Not Available for Purchase)	
7		1	Input Shaft Assembly	
7A	7024714	1	Shaft	
7B	7000261	1	Ring, Retaining	
7C	7000262	1	Spring	
7D	7000263	2	Spacer, Thrust	
8	7024713	1	Gear, Sun	
9 to 10	Not Used			
11	7000253	1	Thrustwasher	
12	7017067	12	Bolt	
13	7017080	4	Pin, Dowel	
14	7000206	1	Coupling	

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FIGURE 1-6. DRIVE HUB ASSEMBLY (FRONT) (4WD ONLY) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
15	7024715	1	Spacer, Input	
16	7024716	1	Spacer, Input	

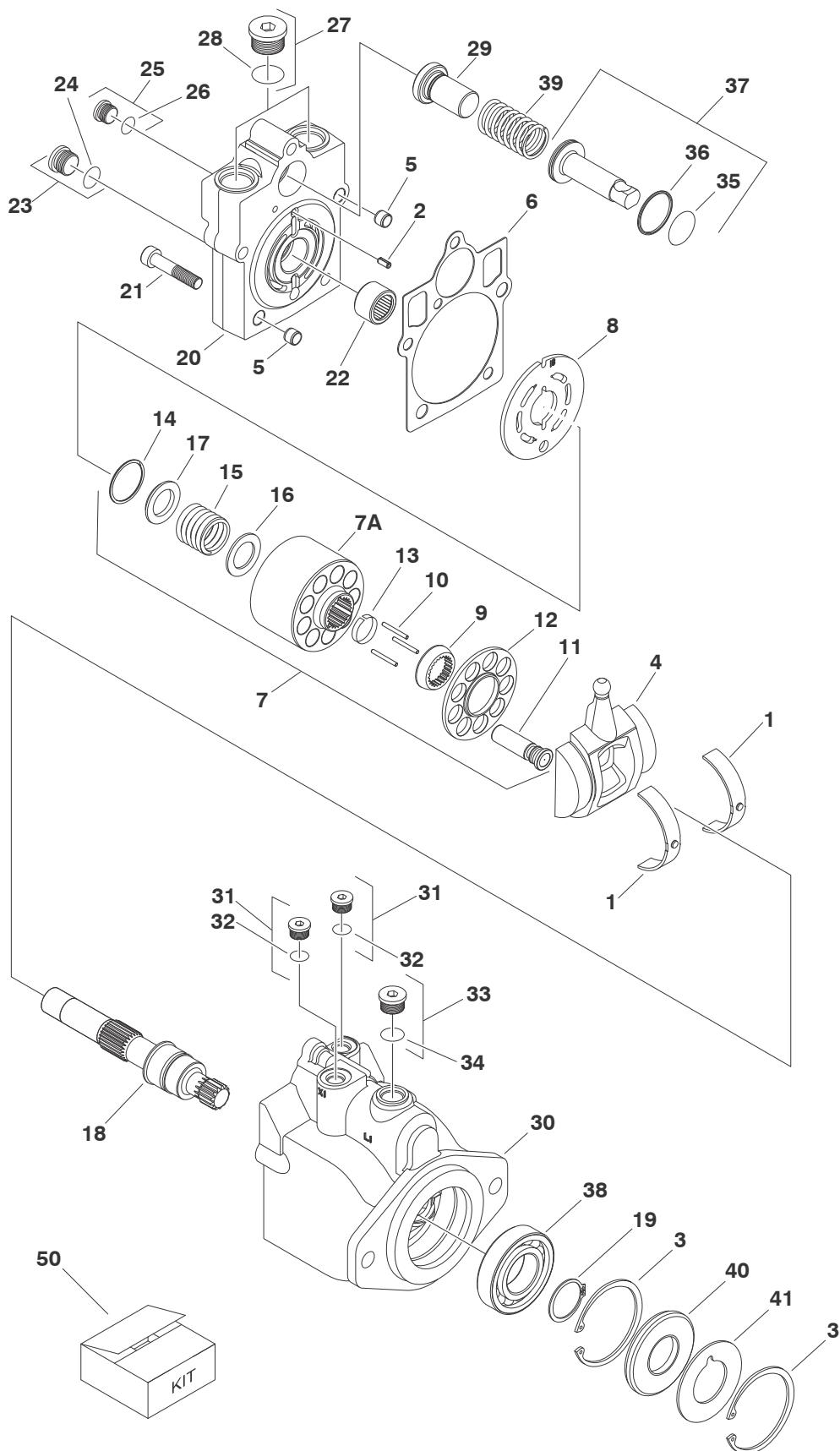
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FIGURE 1-6. DRIVE HUB ASSEMBLY (FRONT) (4WD ONLY) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 1-7. DRIVE MOTOR ASSEMBLY (2WD)



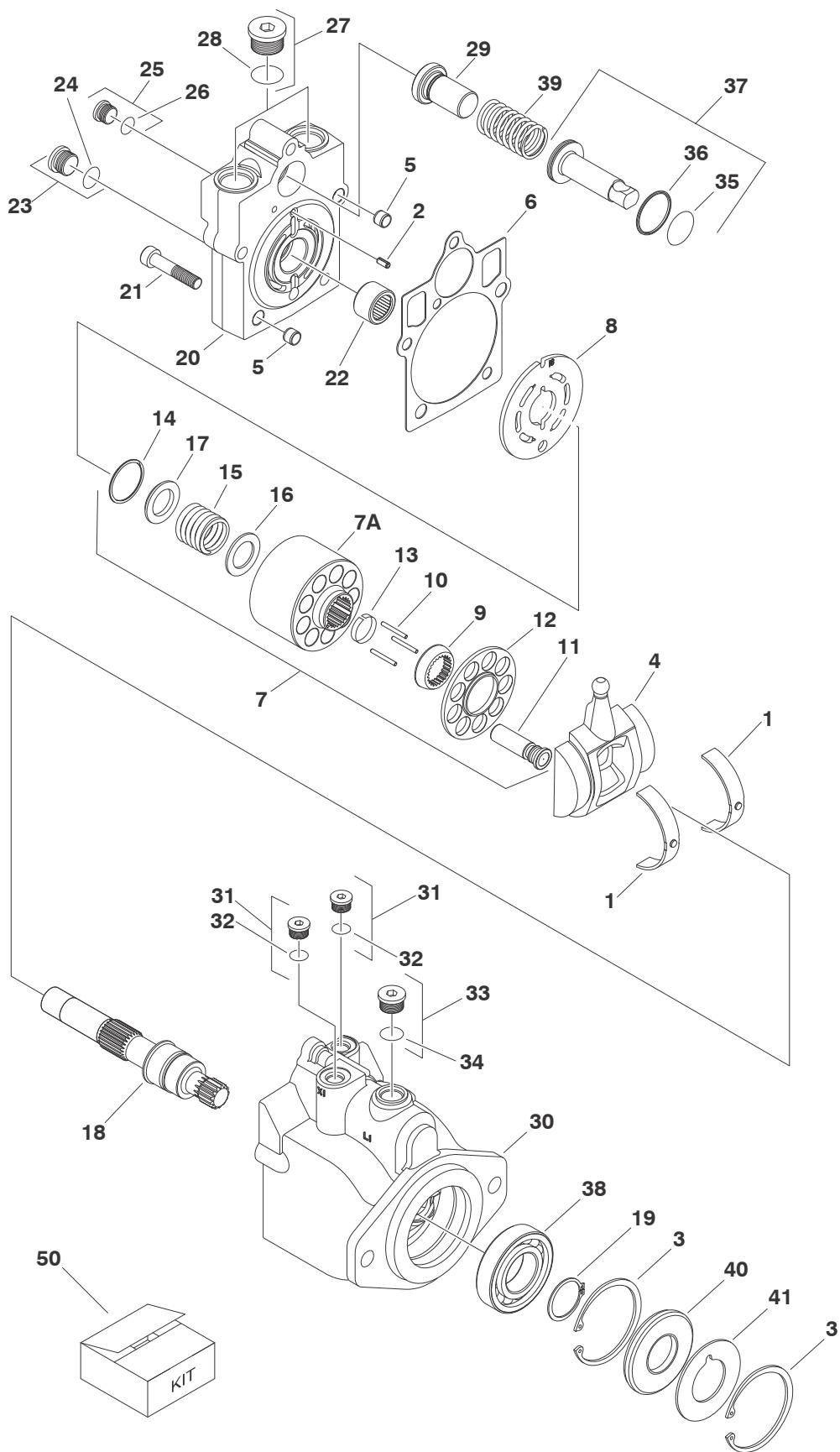
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FIGURE 1-7. DRIVE MOTOR ASSEMBLY (2WD)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	3160351	Ref	DRIVE MOTOR ASSEMBLY (2WD)	B
1	7022302	2	Bearing, Journal	
2	7007446	1	Pin	
3	7007438	2	Ring, Retaining	
4	7022305	1	Swashplate	
5	See Note	2	Pin (Note: Not Available for Purchase)	
6	Use 7022328	1	Gasket	
7	7023907	1	Cylinder Block Kit (Includes Items 7A & 9-17)	
7A	Use 7023907	1	Block, Cylinder	
8	7023908	1	Plate, Valve	
9	7021277	1	Guide, Slipper Retainer	
10	7021275	3	Pin, Slipper Hold Down	
11	Use 7023907	9	Piston Assembly	
12	7021276	1	Retainer, Hold Down Pin	
13	Use 7023907	1	Retainer, Slipper	
14	7022311	1	Ring, Retaining	
15	7022312	1	Spring	
16	7024868	1	Washer	
17	7022314	1	Retainer, Spring	
18	7023910	1	Shaft	
19	7007439	1	Ring, Retaining	
20	70000797	1	Cap, End - Axial	
21	7022368	5	Screw	
22	7021249	1	Bearing, Needle	
23	2220886	1	Plug (Includes Item 24)	
24	Use 7022328	1	O-Ring	
25	2220883	1	Plug (Includes Item 26)	
26	Use 7022328	1	O-Ring	
27	7027419	2	Plug (Includes Item 28)	
28	Use 7022328	2	O-Ring	
29	7024853	1	Seat, Spring	
30	Use 3160351	1	Housing	
31	2220883	2	Plug (Includes Item 32)	
32	Use 7022328	2	O-Ring	
33	2220886	1	Plug (Includes Item 34)	
34	Use 7022328	1	O-Ring	
35	Use 7022328	1	O-Ring	
36	Use 7022328	1	Ring, Seal	
37	7024854	1	Piston, Servo (Includes Items 35 & 36)	
38	7007437	1	Bearing	
39	7022326	1	Spring	
40	Use 7022328	1	Seal, Lip	
41	7022371	1	Washer, Support	
42 to 49	Not Used			
50	7022328	1	Seal Kit (Includes Items 6,24,26,28,32,34,35,36 and 40)	

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FIGURE 1-8. DRIVE MOTOR ASSEMBLY (4WD)



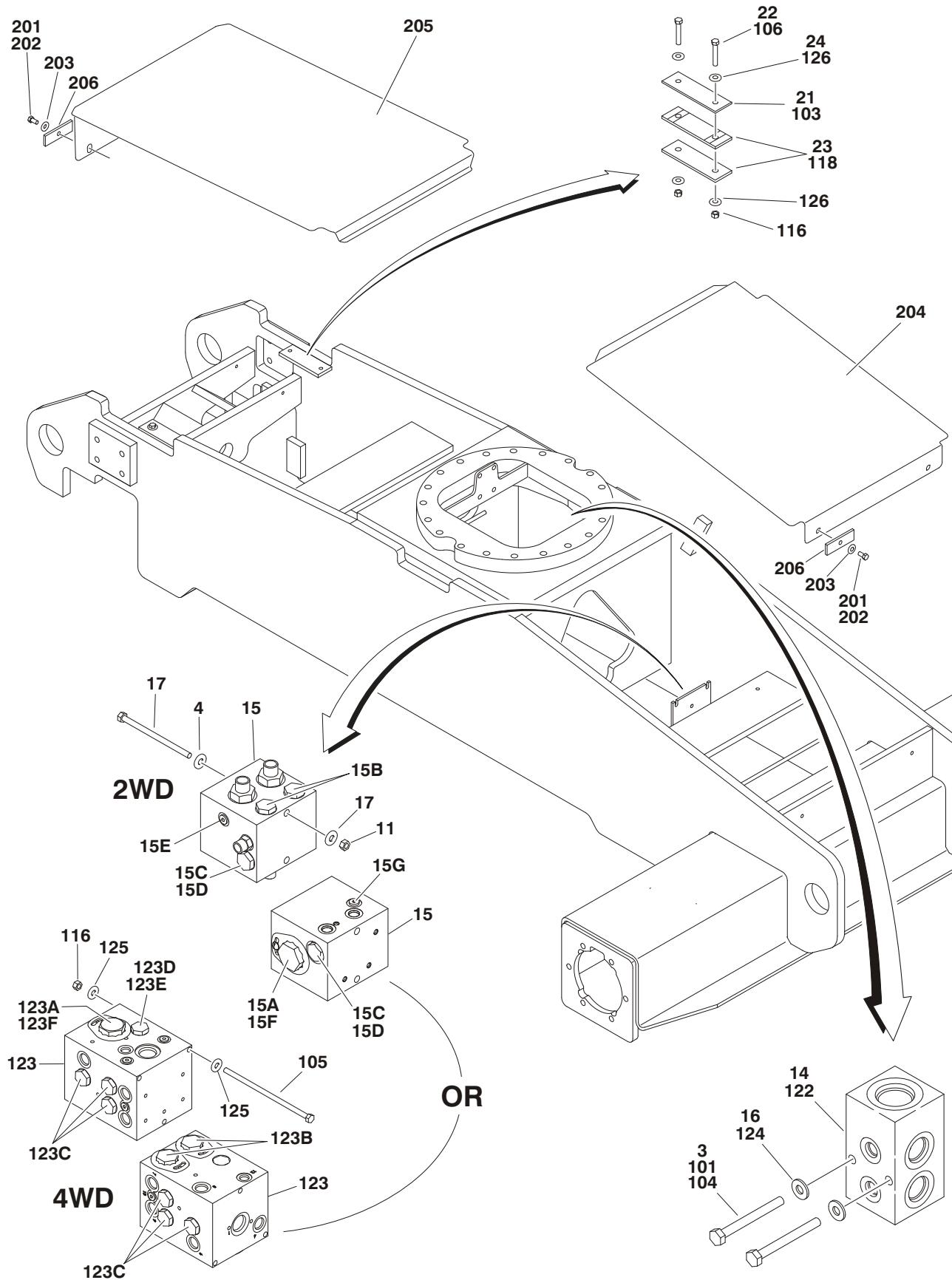
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FIGURE 1-8. DRIVE MOTOR ASSEMBLY (4WD)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	3160348	Ref	DRIVE MOTOR ASSEMBLY (4WD)	B
1	7022302	2	Bearing, Journal	
2	7007446	1	Pin	
3	7007438	2	Ring, Retaining	
4	7022305	1	Swashplate	
5	See Note	2	Pin (Note: Not Available for Purchase)	
6	Use 7022328	1	Gasket	
7	7023907	1	Cylinder Block Kit (Includes Items 7A & 9-17)	
7A	Use 7023907	1	Block, Cylinder	
8	7023908	1	Plate, Valve	
9	7021277	1	Guide, Slipper Retainer	
10	7021275	3	Pin, Slipper Hold Down	
11	Use 7023907	9	Piston Assembly	
12	7021276	1	Retainer, Hold Down Pin	
13	7022310	1	Retainer, Slipper	
14	7022311	1	Ring, Retaining	
15	7022312	1	Spring	
16	7024868	1	Washer	
17	7022314	1	Retainer, Spring	
18	7023910	1	Shaft	
19	7007439	1	Ring, Retaining	
20	70000797	1	Cap, End - Axial	
21	7022368	5	Screw	
22	7021249	1	Bearing, Needle	
23	2220886	1	Plug (Includes Item 24)	
24	Use 7022328	1	O-Ring	
25	2220883	1	Plug (Includes Item 26)	
26	Use 7022328	1	O-Ring	
27	2220888	2	Plug (Includes Item 28)	
28	Use 7022328	2	O-Ring	
29	7022372	1	Seat, Spring	
30	Use 3160348	1	Housing	
31	2220883	2	Plug (Items Item 32)	
32	Use 7022328	2	O-Ring	
33	2220886	1	Plug (Items Item 34)	
34	Use 7022328	1	O-Ring	
35	Use 7022328	1	O-Ring	
36	Use 7022328	1	Ring, Seal	
37	7024854	1	Piston, Servo (Includes Items 35 & 36)	
38	7007437	1	Bearing	
39	7022326	1	Spring	
40	Use 7022328	1	Seal, Lip	
41	7022371	1	Washer, Support	
42 to 49	Not Used			
50	7022328	1	Seal Kit (Includes Items 6,24,26,28,32,34,35,36 and 40)	

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FIGURE 1-9.DRIVE VALVES AND FRAME SHIELDS INSTALLATION



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FIGURE 1-9. DRIVE VALVES AND FRAME SHIELDS INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0275853	Ref	DRIVE VALVES INSTALLATION - 2WD	F
		Ref	Note: 2WD Machines are USA Built Machines Only.	
1 to 2	Not Used			
3	0641420	2	Bolt 1/4in-20NC x 2-1/2in	
4	0641542	2	Bolt 5/16in-18NC x 5-1/4in	
5 to 10	Not Used			
11	3311505	2	Locknut 5/16in-18NC	
12 to 13	Not Used			
14	4641155	1	Valve, Junction Manifold	B
15	1001099390	1	Valve, Flow Divider (2WD)	
15A	7023917	1	Valve, Cartridge	
	7021625	1	Seal Kit - 7023917 Cartridge	
15B	7022397	2	Valve, Cartridge	
	7022399	AR	Seal Kit - 7022397 Cartridge	
15C	70002390	2	Valve, Cartridge	
	7022399	AR	Seal Kit - 70002390 Cartridge	
15D	7024881	1	Piston	
15E	7024844	1	Plug	
15F	70000781	1	Lockdown Kit	
15G	7017406	1	Plug	
16	4711400	2	Flatwasher 1/4in Thin	
17	4751500	4	Flatwasher 5/16in Regular	
18 to 20	Not Used			
21	0363012	2	Bar, Clamping	
22	0641618	4	Bolt 3/8in-16NC x 2-1/4in	
23	3340911	4	Rubber, Clamp	
24	4751600	4	Flatwasher 3/8in Regular	
	0275854	Ref	DRIVE VALVES INSTALLATIONS - 4WD	C
101	0100011	AR	Compound, Locking	
102	Not Used			
103	0363012	2	Bar, Clamping	
104	0641420	2	Bolt 1/4in-20NC x 2-1/2in	
105	0641560	3	Bolt 5/16in-18NC x 7-1/2in	
106	0641618	4	Bolt 3/8in-16NC x 2-1/4in	
107 to 115	Not Used			
116	3311505	AR	Locknut 5/16in-18NC	
117	Not Used			
118	3340911	4	Rubber, Clamp	
119 to 121	Not Used			
122	4641155	1	Valve, Junction Manifold	B
123	4641510	1	Flow Divider Valve Assembly	D
123A	7023917	1	Valve, Cartridge (Flow Divider)	
	7021625	1	Seal Kit - 7023917 Flow Divider Cartridge	
123B	7023934	2	Valve, Cartridge (Flow Divider)	
	7021655	2	Seal Kit - 7023934 Flow Divider Cartridge	

SECTION 1 FRAME

FIGURE 1-9. DRIVE VALVES AND FRAME SHIELDS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
123C	7022397 7022399	6 6	Valve, Cartridge (Check) Seal Kit - 7022397 Check Cartridge	
123D	7021639 7017496	2 2	Valve, Cartridge (Check) Seal Kit - 7021639 Check Cartridge (was p/n 2900756)	
123E	7024881	1	Piston, Pilot	
123F	70000781	1	Lockdown Kit	
124	4711400	2	Flatwasher 1/4in Thin	
125	4751500	6	Flatwasher 5/16in Regular	
126	4751600	AR	Flatwasher 3/8in Regular	
		Ref	FRAME SHIELDS INSTALLATIONS	
	1001140666	Ref	Without Tow Bar	C
	1001150755	Ref	With Tow Bar	A
201	0100011	AR	Compound, Locking	
202	0641606 0641612	4	Bolt 3/8in-16NC Options: Bolt 3/8in-16NC x 3/4in Bolt 3/8in-16NC x 1-1/2in	
203	4751600	4	Flatwasher 3/8in Regular	
204	1001140381	1	Shield, Frame (Rear)	
205		1	Shield, Frame (Front) Options:	
	1001140404 1001150713		Without Tow Bar With Tow Bar	
206	3340860	4	Pad, Rubber (SN 0300165138 to Present Only)	

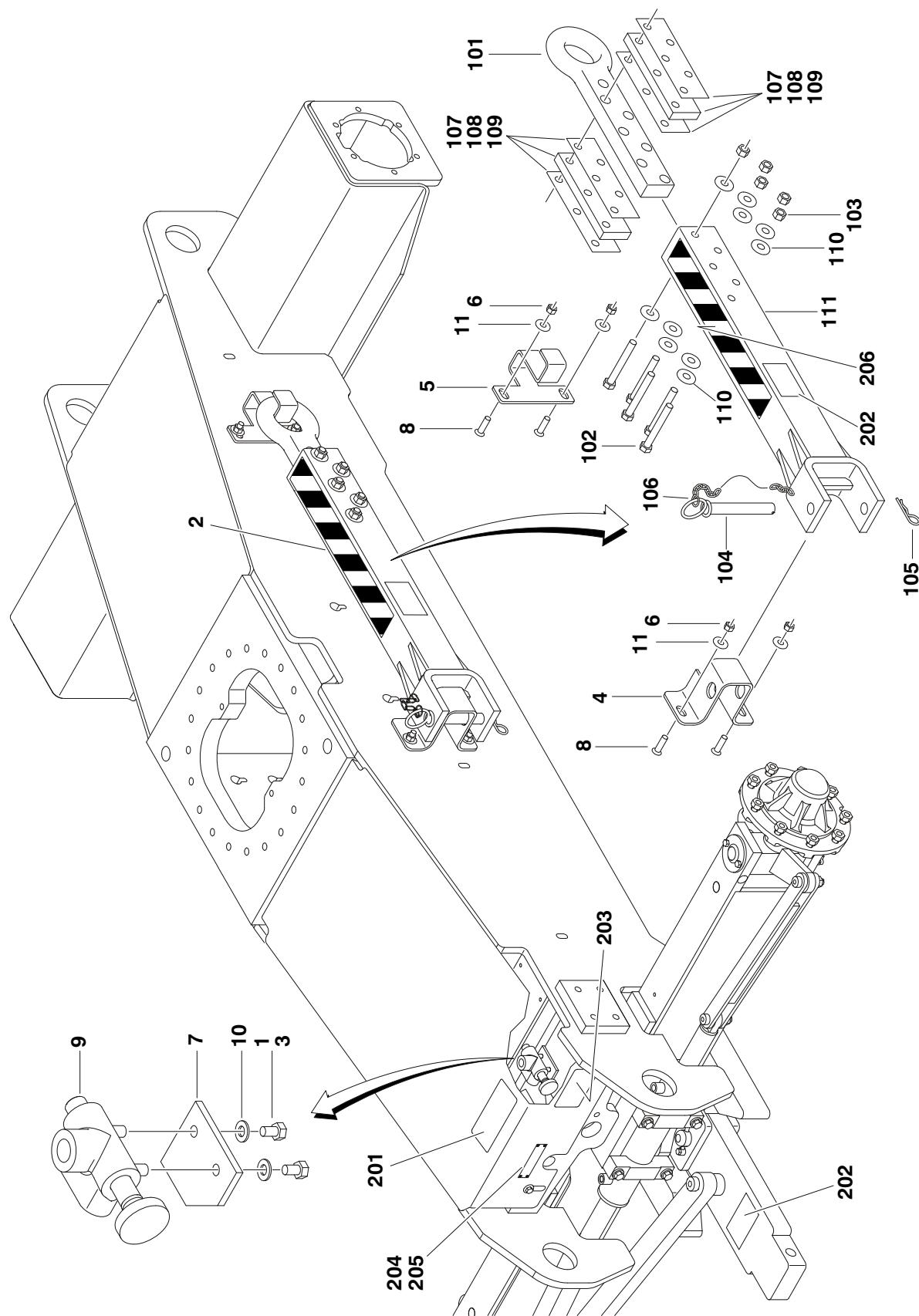
SECTION 1 FRAME

FIGURE 1-9. DRIVE VALVES AND FRAME SHIELDS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 1 FRAME

FIGURE 1-10.TOW BAR (NON-FOLDING) INSTALLATION (OPTIONAL)



SECTION 1 FRAME

FIGURE 1-10. TOW BAR (NON-FOLDING) INSTALLATION (OPTIONAL)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: Only Available on 2WD Machines.	
		Ref	Note: 2WD Machines are USA Built Machines Only.	
	1001093876	Ref	TOW BAR INSTALLATION - 2WD (OPTIONAL)	C
1	0100011	AR	Locking, Compound	
2	0363019	1	Tow Bar Assembly (See Item 101-111 for Breakdown)	
3	0641504	2	Bolt 5/16in-18NC x 1/2in	
4	0902733	1	Bracket, Storage (Front)	
5	0902734	1	Bracket, Storage (Rear)	
6	3311801	4	Nut 1/2in-13NC	
7	3539662	1	Plate, Valve Mounting (Welded on Plate):	
8	4300048	4	Stud (Welded on Plate)	
9	4640261	1	Steer/Tow Select Valve	
10	4711500	2	Flatwasher 5/16in Narrow	
11	4751800	4	Flatwasher 1/2in Regular	
	0363019	Ref	TOW BAR ASSEMBLY	B
101	0360406	1	Pintle, Draw Eye	
102	0682040	5	Bolt 5/8in-11NC x 5in	
103	3312005	5	Locknut 5/8in-11NC	
104	3420352	1	Pin, Towing	
105	3420372	1	Hairpin	
106	3760170	1	Ring, Split	
107	4070450	2	Shim (.07)	
108	4070560	2	Shim (.88)	
109	4070561	2	Shim (.12)	
110	4752000	10	Flatwasher 5/8in Regular	
111	Use 0363019	1	Tow Bar (Note: Does not include Decals - Order Separately)	
		Ref	TOW BAR DECAL INSTALLATION	
	0270115	Ref	English Language (ANSI, ANSI Export, Australian & CE Specs)	1
	0270119	Ref	English/Spanish Language (Dual Language) (ANSI Export Specs)	1
	0270116	Ref	Spanish Language (CE Spec)	1
201		1	Decal - Tow Instructions 0270115 English Language Installation 0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
202	1704482 1704457 1704455	3	Decal - Crushing 0270115 English Language Installation 0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
	1704578 1704577 1701518			

SECTION 1 FRAME

FIGURE 1-10. TOW BAR (NON-FOLDING) INSTALLATION (OPTIONAL) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
203	1703450	1	Decal - Warning 0270115 English Language Installation	
	1704576		0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
204	1704456	1	Nameplate - Steer/Tow Select Valve 0270115 English Language Installation	
	3250872		0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
205	3252693	4	Rivet	
206	3252692		Tape	
3820001	4420051	43in/1.1m		

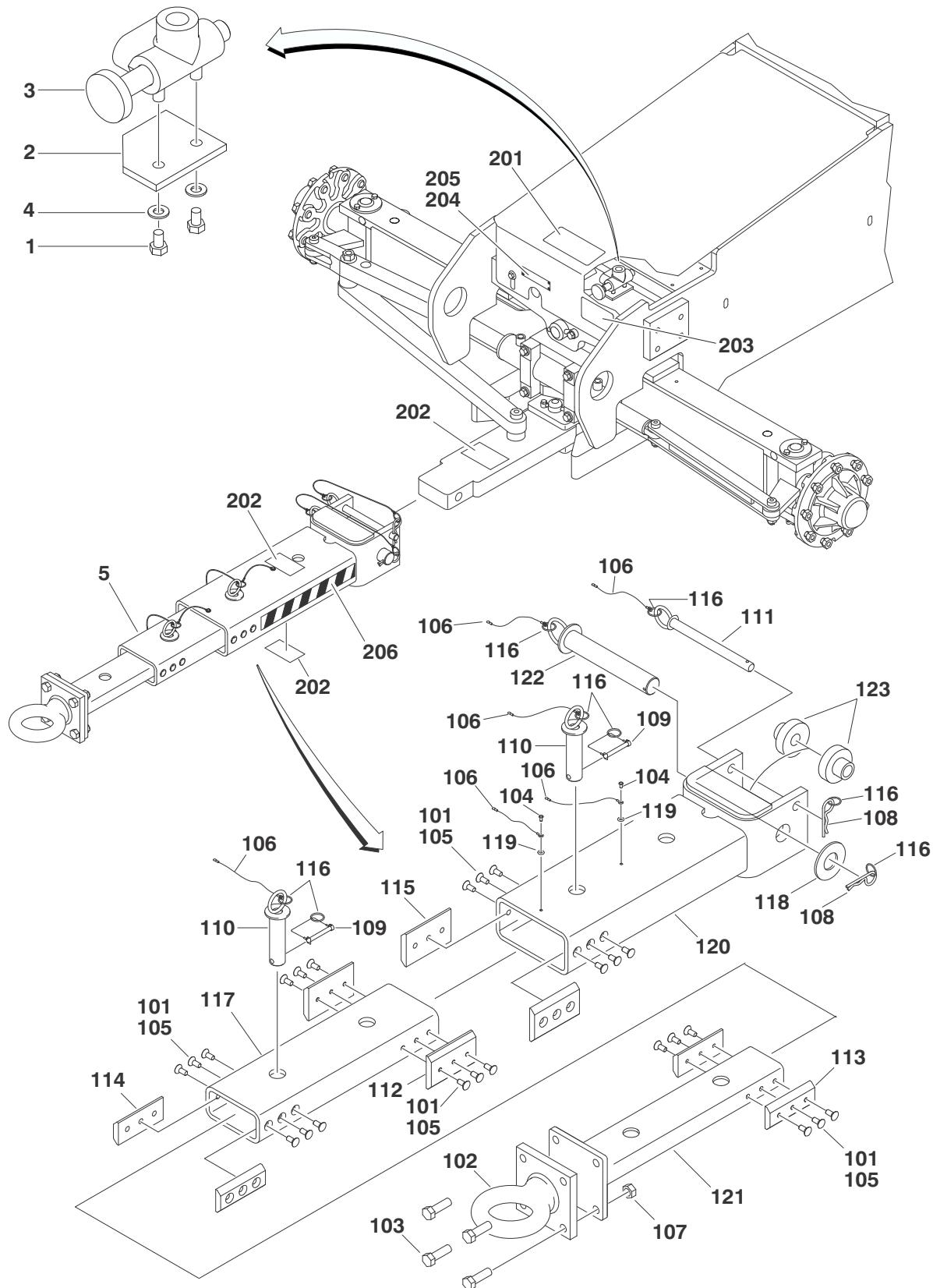
SECTION 1 FRAME

FIGURE 1-10. TOW BAR (NON-FOLDING) INSTALLATION (OPTIONAL) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 1 FRAME

FIGURE 1-11.TOW BAR (FOLDING) INSTALLATION (OPTIONAL)



SECTION 1 FRAME

FIGURE 1-11. TOW BAR (FOLDING) INSTALLATION (OPTIONAL)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: Only Available on 2WD Machines.	
		Ref	Note: 2WD Machines are USA Built Machines Only.	
	1001154211	Ref	TOW BAR INSTALLATION - 2WD (OPTIONAL)	A
1	0641504	2	Bolt 5/16in-18NC x 1/2in	
2	3539662	1	Plate, Valve Mounting (Welded on Plate):	
3	4640261	1	Steer/Tow Select Valve	
4	4711500	2	Flatwasher 5/16in Narrow	
5	1001154212	1	Tow Bar Assembly (See Item 101-123 for Breakdown)	
	1001154212	Ref	TOW BAR ASSEMBLY	B
101	0100011	AR	Locking, Compound	
102	0362910	1	Pintle, Draw Eye	
103	068216	4	Bolt 5/8in-11NC x 2in	
104	0721004	2	Bolt 10-24 NC x 1/2in	
105	0741607	24	Screw, Countersunk 3/8in-16NC x 7/8in	
106	1060584	6	Cable, Lanyard	
107	3272005	4	Locknut 5/8in-11NC	
108	3420372	2	Hairpin	
109	3421565	2	Pin, Snap	
110	3422841	2	Pin	
111	3422847	1	Pin	
112	3572009	2	Plate, Slide Stop	
113	3572010	2	Plate, Slide Stop	
114	3572011	2	Plate, Slide Stop	
115	3572012	2	Plate, Slide Stop	
116	3760170	8	Ring, Split	
117	4568033	1	Tube, Tow Bar	
118	4740036	1	Flatwasher	
119	4751000	2	Flatwasher #10 Regular	
120	4846168	1	Tow Bar Attach Weldment	
121	4846169	1	Pintle Attach Weldment	
122	1001154031	1	Pin	
123	1001154032	2	Sleeve, Spacer	
		Ref	TOW BAR DECAL INSTALLATION	
	0270115	Ref	English Language (ANSI, ANSI Export, Australian & CE Specs)	1
	0270119	Ref	English/Spanish Language (Dual Language) (ANSI Export Specs)	1
	0270116	Ref	Spanish Language (CE Spec)	1
201		1	Decal - Tow Instructions 0270115 English Language Installation 0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	

SECTION 1 FRAME

FIGURE 1-11. TOW BAR (FOLDING) INSTALLATION (OPTIONAL) (CONTINUED)

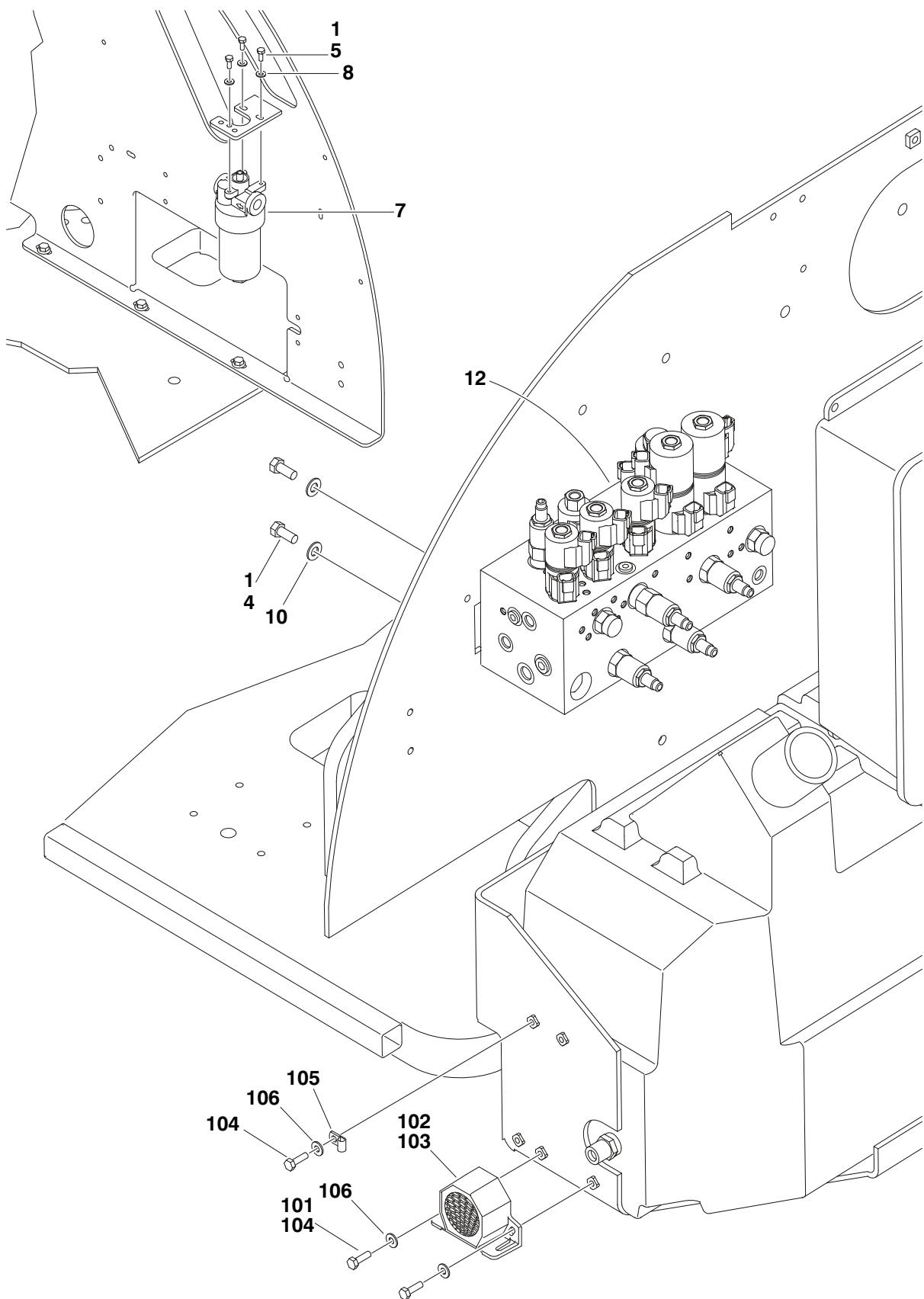
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
202	1704578	3	Decal - Crushing	
	1704577		0270115 English Language Installation 0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
203	1701518	1	Decal - Warning	
	1703450		0270115 English Language Installation 0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
204	1704576	1	Nameplate - Steer/Tow Select Valve	
	1704456		0270115 English Language Installation 0270119 English/Spanish Language Installation 0270116 Spanish Language Installation	
205	3250872	4	Rivet	
	3252693		Tape	
206	3820001	43in/1.1m		
	4420051			

SECTION 2

TURNTABLE

SECTION 2 TURNTABLE

FIGURE 2-1.MAIN CONTROL VALVE AND ALARM INSTALLATIONS



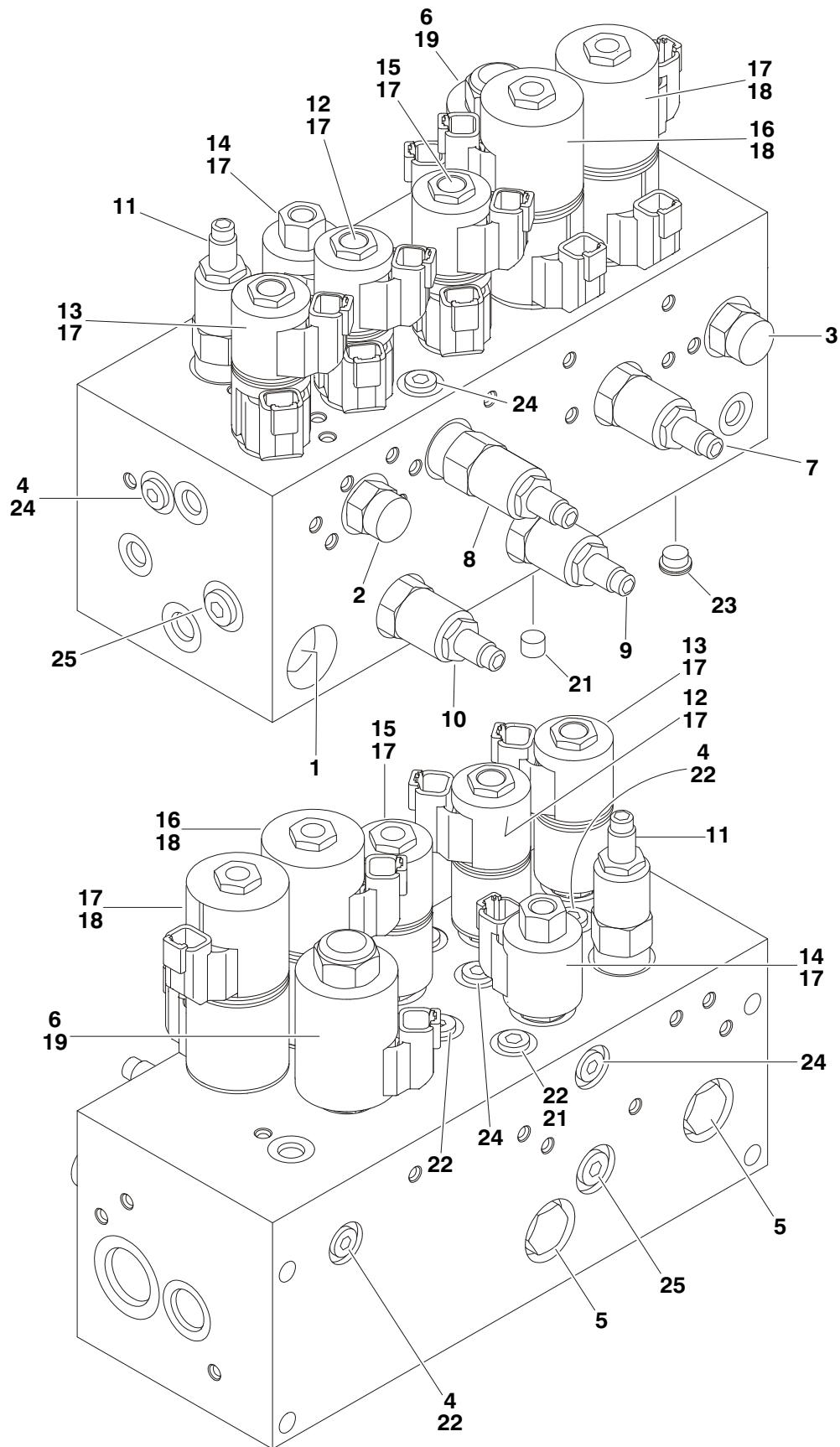
SECTION 2 TURNTABLE

FIGURE 2-1. MAIN CONTROL VALVE AND ALARM INSTALLATIONS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	VALVES INSTALLATIONS	
	1001141803	Ref	450A Series II	B
	1001141804	Ref	450AJ Series II	B
1	0100011	AR	Compound, Locking	
2 to 3	Not Used			
4	0641607	4	Bolt 3/8in-16NC x 7/8in	
5	0651405	3	Bolt 1/4in-24NF x 5/8in	
6	Not Used			
7	2120209	1	Pressure Filter Assembly	
	2120210		Element, Filter	
	7020020	1	Indicator	
	70000934	1	O-Ring, Filter Bowl	
8	4751400	3	Flatwasher 1/4in Regular	
9	Not Used			
10	4711600	4	Flatwasher 3/8in Thin	
11	Not Used			
12	1001138771	1	Main Control Valve Assembly (See MAIN CONTROL VALVE ASSEMBLY for Breakdown)	
	1001142264	Ref	ALARM INSTALLATION	C
101	0100011	AR	Compound, Locking	
102	0100048	AR	Sealant, Silicone	
103	0140044	1	Alarm/Harness Assembly	
104	0641405	3	Bolt 1/4in-20NC x 5/8in	
105	1320136	1	Clamp	
106	4711400	3	Flatwasher 1/4in Thin	

SECTION 2 TURNTABLE

FIGURE 2-2.MAIN CONTROL VALVE ASSEMBLY



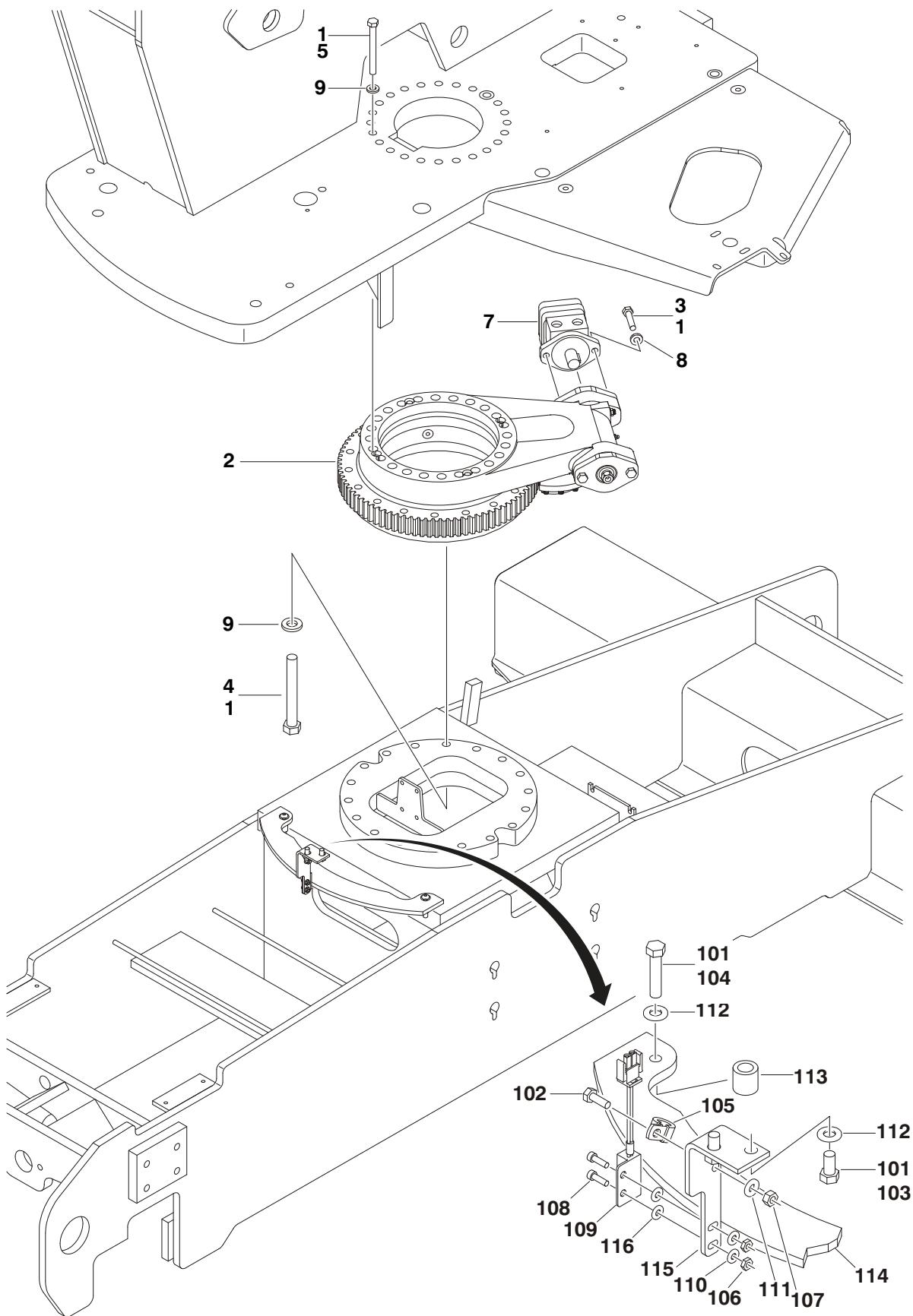
SECTION 2 TURNTABLE

FIGURE 2-2. MAIN CONTROL VALVE ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001138771	Ref	PROPORTIONAL VALVE ASSEMBLY	C
1	7012975	1	Cartridge, Check	
	7012540	1	Seal Kit - 7012975 Cartridge	
2	70003787	2	Cartridge	
	7010543	2	Seal Kit - 70003787 Cartridge	
3	70002972	1	Cartridge, Flow Regulator	
	7010543	1	Seal Kit - 70002972 Cartridge	
4	7017440	3	Cartridge, Load Shuttle	
	7017441	3	Seal Kit - 7017440 Cartridge	
5	10837580	2	Cartridge, Load Shuttle	
	7010543	2	Seal Kit - 10837580 Cartridge	
6	7021611	1	Cartridge (Proportional Dump)	
	7012518	1	Seal Kit - 7021611 Cartridge	
7	7023971	1	Cartridge, Relief (Telescope)	
	7012998	1	Seal Kit - 7023971 Cartridge	
8	7021613	1	Cartridge, Relief (Lower Lift)	
	7012998	1	Seal Kit - 7021613 Cartridge	
9	7017422	1	Cartridge, Relief (Steer)	
	7012998	1	Seal Kit - 7017422 Cartridge	
10	7017421	1	Cartridge, Relief (Upper Lift)	
	7012998	1	Seal Kit - 7017421 Cartridge	
11	7017423	1	Cartridge, Relief (Swing)	
	7012998	1	Seal Kit - 7017423 Cartridge	
12	7023922	1	Cartridge without Coil (Upper Lift)	
	7017402	1	Seal Kit - 7023922 Cartridge	
13	7023914	1	Cartridge without Coil (Swing)	
	7017402	1	Seal Kit - 7023914 Cartridge	
14	7017410	1	Cartridge without Coil (Proportional Dump)	
	7012967	1	Seal Kit - 7017410 Cartridge	
15	7017433	1	Cartridge without Coil (Steer)	
	7017402	1	Seal Kit - 7017433 Cartridge	
16	7017454	2	Cartridge without Coil (Lower Lift & Telescope)	
	7012903	2	Seal Kit - 7017454 Cartridge	
17	70002386	7	Coil	
18	70003788	4	Coil	
19	70003789	1	Coil	
20	Not Used			
21	See Note	2	Orifice (Note: Not Available for Purchase)	
22	7017406	5	Plug	
23	7024844	1	Plug	
24	See Note	3	Plug (Note: Not Available for Purchase)	
25	See Note	2	Plug (Note: Not Available for Purchase)	

SECTION 2 TURNTABLE

FIGURE 2-3.TURNTABLE AND SWING DRIVE INSTALLATIONS



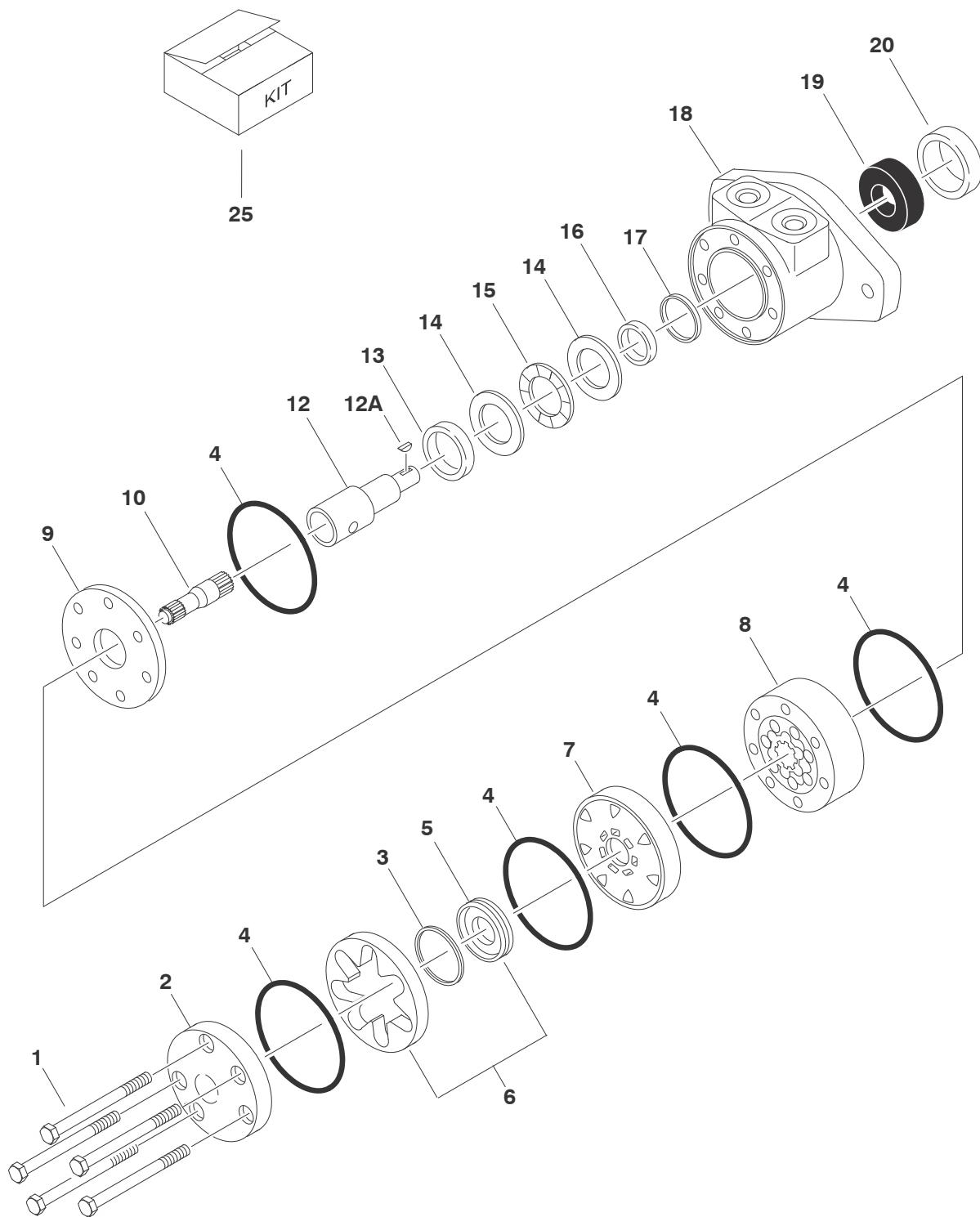
SECTION 2 TURNTABLE

FIGURE 2-3. TURNTABLE AND SWING DRIVE INSTALLATIONS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	SWING DRIVE INSTALLATIONS	
	0273358	Ref	SWING DRIVE INSTALLATION (DOHI)	D
	1001153365	Ref	SWING DRIVE INSTALLATION (JING WEI)	A
1	0100019	AR	Compound, Locking	
2		1	Swing Bearing and Rotation Box Assembly Options (See SWING BEARING AND ROTATION BOX ASSEMBLY for Breakdown):	
	Use 1001160532		DOHI (Original Equipment) (was p/n 0440272)	
	1001160532		JING WEI (Service Replacement Kit Includes Items Bearing 3-6 & 9)	
	1001153016	Ref	JING WEI	
			Note: Original Equipment Bearing p/n 0440272 may have been replaced with Service Replacement Bearing Kit p/n 1001160532. Visually identify the p/n tag on bearing before ordering parts.	
3	3931832	2	Bolt 1/2in-13NC x 2in	
4	0682040	18	Bolt 5/8in-11NC x 5in (Grade 8)	
5	0682048	24	Bolt 5/8in-11NC x 6in (Grade 8)	
6	2160001	2	Fitting, Grease	
7	1001104850	1	Swing Motor Assembly (See SWING MOTOR ASSEMBLY for Breakdown)	
8	4740171	2	Flatwasher 1/2in Special	
9	4892000	42	Flatwasher 5/8in Hardened	
	1001102695	Ref	DRIVE ORIENTATION INSTALLATION	D
101	0100011	AR	Compound, Locking	
102	0641406	1	Bolt 1/4in-20NC x 3/4in	
103	0641606	2	Bolt 3/8in-16NC x 3/4in	
104	88261039	2	Screw 3/8in-16NC x 2in	
105	1320041	1	Clamp	
106	3311005	2	Locknut #10	
107	3311405	1	Locknut 1/4in-20NC	
108	3931010	2	Screw #10-24 x 5/8in	
109	4360517	1	Switch, Proximity	
110	4711000	2	Flatwasher #10 Regular	
111	4711400	1	Flatwasher 1/4in Thin	
112	4711600	4	Flatwasher 3/8in Thin	
113	Use 1001145163	2	Spacer (was p/n 7116691 & 1001114757)	
114	1001102526	1	Cam	
115	1001102527	1	Bracket, Switch	
116	4740120	2	Flatwasher, Special	

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FIGURE 2-4.SWING MOTOR ASSEMBLY



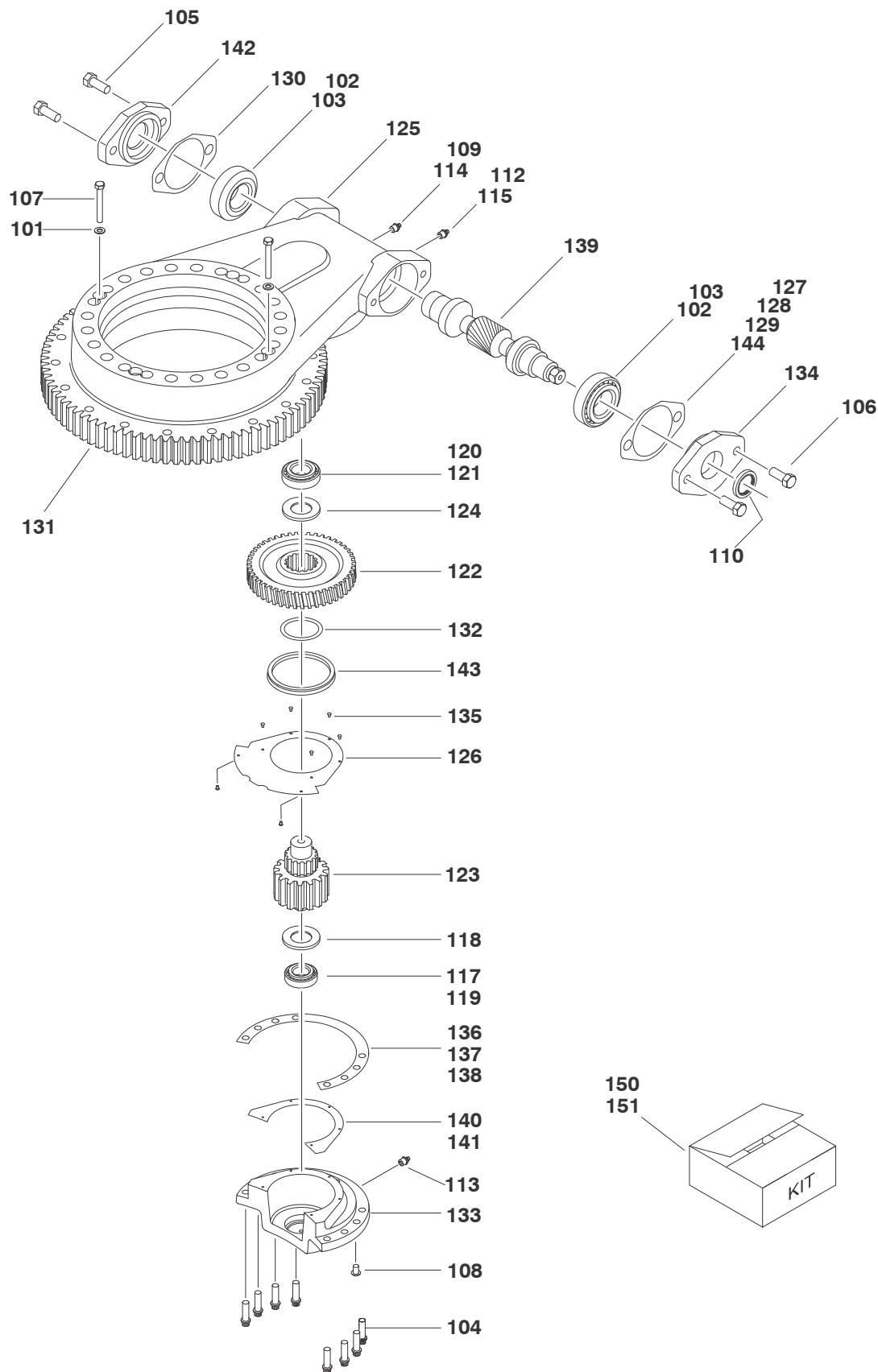
SECTION 2 TURNTABLE

FIGURE 2-4. SWING MOTOR ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001104850	Ref	SWING MOTOR ASSEMBLY	A
1	See Note	5	Bolt (Note: Not Available for Purchase)	
2	7004035	1	Cover, End	
3	7023318	1	Seal, Commutator	
4	7004036	5	O-Ring	
5	Use 7024453	1	Commutator	
6	7024453	1	Commutator & Ring Assembly (Includes Items 5)	
7	7024379	1	Manifold	
8	70002206	1	Rotor Set	
9	7024380	1	Plate, Wear	
10	70002207	1	Link, Drive	
11	Not Used			
12	70000088	1	Shaft, Coupling	
12A	70000089	1	Key	
13	7024381	1	Bushing, Inner	
14	7004043	1	Thrustwasher	
15	7004044	1	Bearing, Thrust	
16	7004049	1	Seal, Inner Shaft	
17	7004045	1	Ring, Backup	
18	See Note	1	Housing (Note: Not Available - Purchase Complete Motor)	
19	7024390	1	Bearing	
20	7004047	1	Seal, Outer Shaft	
21 to 24	Not Used			
25	7024389	1	Seal Kit (Includes Items 3, 4, 16, 17 & 20)	

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FIGURE 2-5.SWING BEARING & ROTATION BOX ASSEMBLY



SECTION 2 TURNTABLE

FIGURE 2-5. SWING BEARING & ROTATION BOX ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	SWING BEARING & ROTATION BOX ASSEMBLIES	
	0440272	Ref	SWING BEARING & ROTATION BOX ASSEMBLY (DOHI)	D
	1001153016	Ref	SWING BEARING & ROTATION BOX ASSEMBLY (JING WEI)	B
101	4891500	2	Flatwasher 5/16in Hardened	
102	7026042	2	Cup, Bearing	
103	7026043	2	Cone, Bearing	
104	0681610	8	Bolt 3/8in-16NC x 1-1/4in (Grade 8)	
105	0641808	2	Bolt 1/2in-13NC x 1in	
106	0641810	2	Bolt 1/2in-13NC x 1-1/4in	
107	0641520	2	Bolt 5/16in-18NC x 2-1/2in	
108	See Note	1	Plug 1/8in (Note: Not Available - Purchase Locally)	
109	See Note	1	Plug (Note: Not Available - Purchase Locally)	
110	Use 7026060	1	Seal, Oil	
111	Not Used			
112	See Note	2	Cap (Note: Not Available - Purchase Complete Assembly)	
113	See Note	1	Fitting, Grease (Note: Not Available - Purchase Locally)	
114	7026044	1	Bushing, Reducer	
115	7027358	1	Fitting, Grease	
116	Not Used			
117	7026045	1	Cup, Bearing	
118	7026046	1	Ring, Grease	
119	7026047	1	Cone, Bearing	
120	7026048	1	Cup, Bearing	
121	7026049	1	Cone, Bearing	
122	7026050	1	Worm-Gear	
123	7026051	1	Pinion, Output	
124	7026052	1	Spacer, Washer	
125	See Note	1	Housing (Note: Not Available - Purchase Complete Assembly)	
126	7026053	1	Cover, Gear	
127	Use 7026059	AR	Shim, Brown (.010in)	
128	Use 7026059	AR	Shim, Clear (.0075in)	
129	Use 7026059	AR	Shim, Blue (.005in)	
130	Use 7026059	AR	Shim, Yellow (.020in)	
131		1	Bearing, Turntable Options:	
	70000042		DOHI Brand	
	70004158		JING WEI Brand	
132	Use 7026060	1	O-Ring	
133	7026055	1	Cap, Gear	
134	7027354	1	Cap, Worm	
135	70000681	8	Screw #6-32 x 3/8in	
136	Use 7026059	AR	Shim, Natural (.0075)	
137	Use 7026059	AR	Shim, Blue (.005)	
138	Use 7026059	AR	Shim, Green (.003)	
139	7026057	1	Gear, Worm	
140	Use 7026059	AR	Shim, Blue (.005)	
141	Use 7026059	AR	Shim, Yellow (.020)	
142	7027356	1	Adapter, Motor	

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FIGURE 2-5. SWING BEARING & ROTATION BOX ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
143	Use 7026060	1	Seal, Face	
144	Use 7026059	AR	Shim, Green (.003)	
145 to 149	Not Used			
150	7026060	1	Seal Kit (Includes Items 110, 132 & 143)	
151	7026059	1	Shim Kit (Includes Items 127-130, 136-138, 140-141 & 144)	

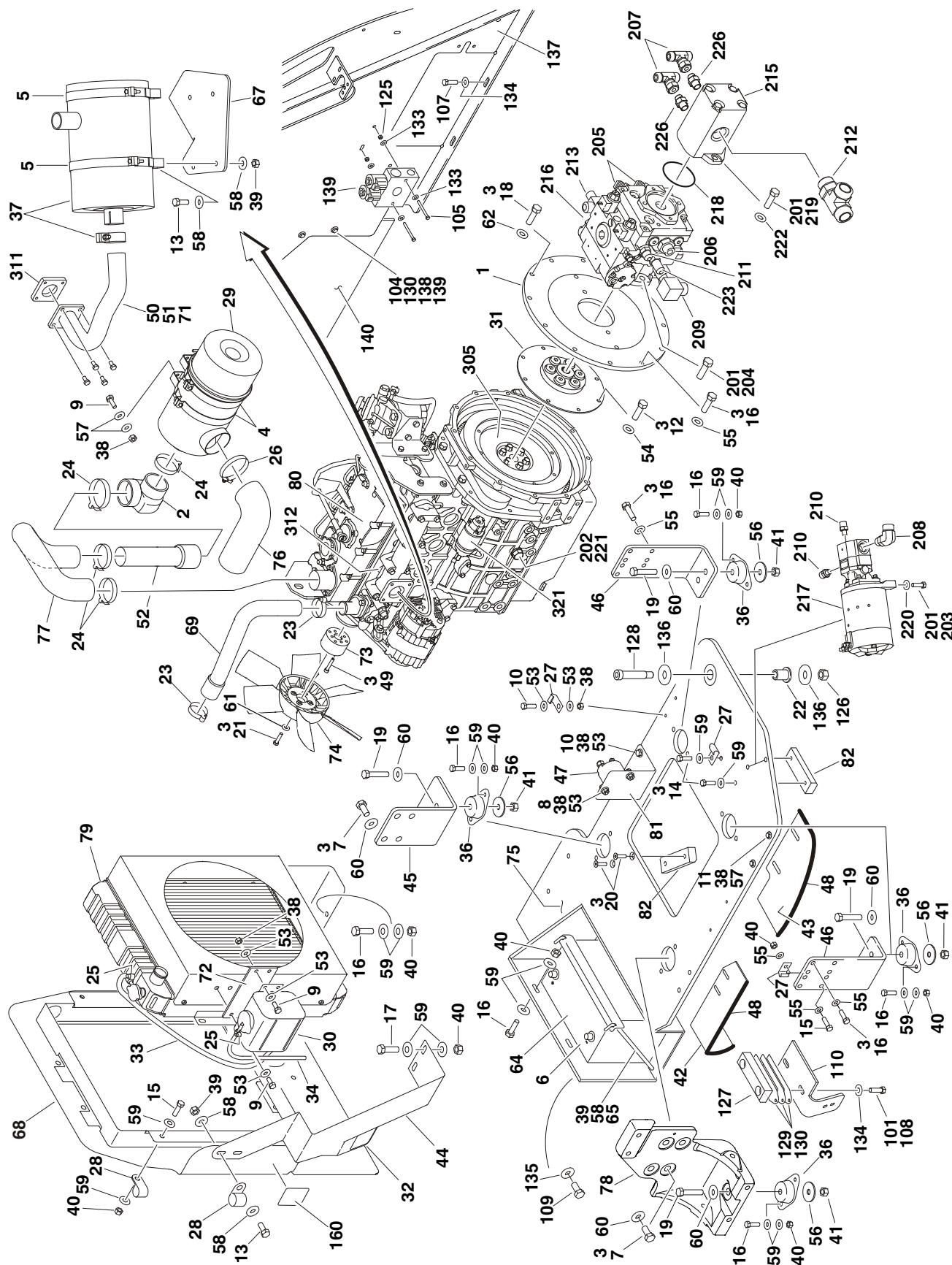
SECTION 2 TURNTABLE

FIGURE 2-5. SWING BEARING & ROTATION BOX ASSEMBLY (CONTINUED)

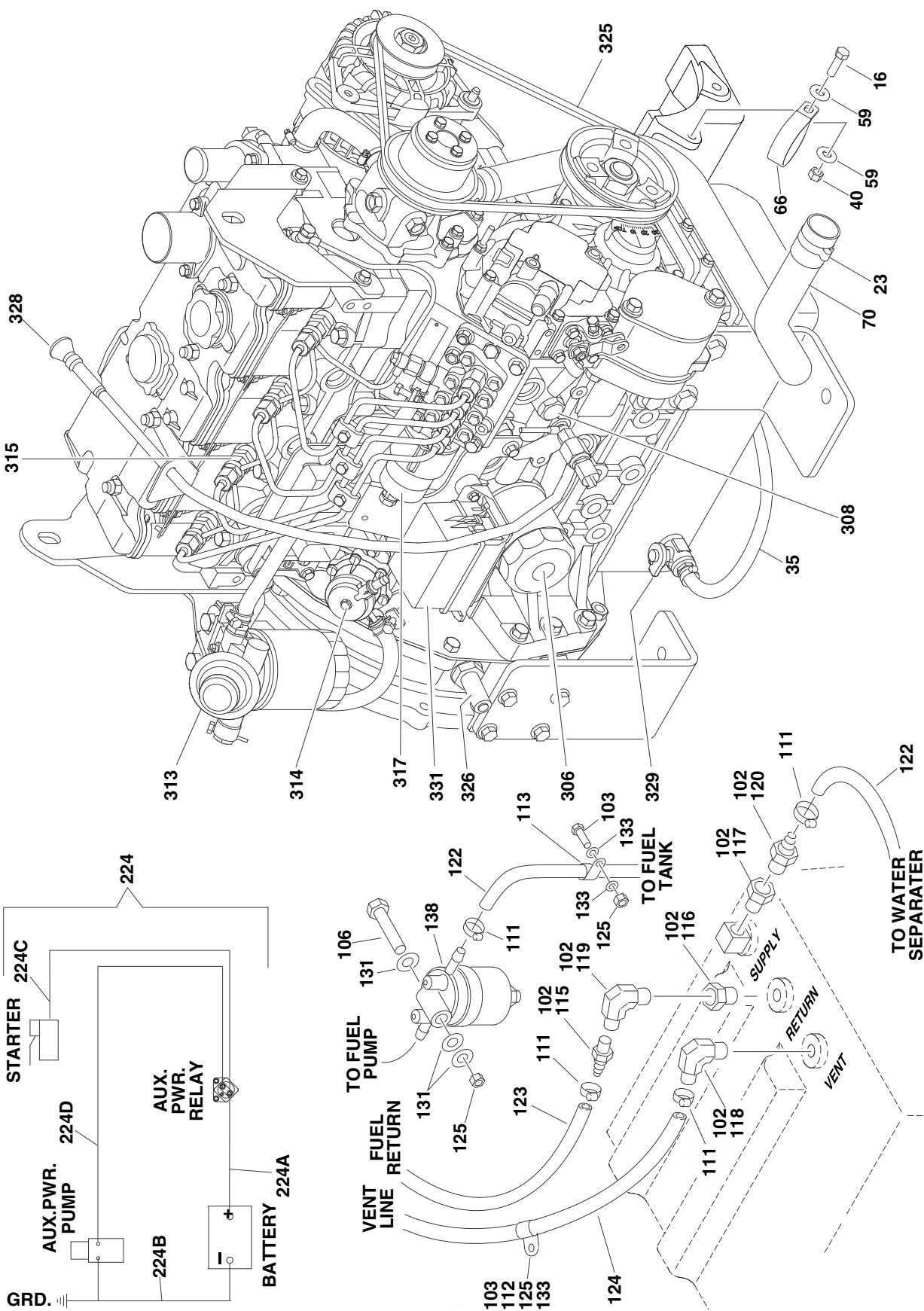
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 2-6.CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES)



SECTION 2 TURNTABLE



3121291

450A & 450AJ Series II

2-15

SECTION 2 TURNTABLE

FIGURE 2-6. CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	CATERPILLAR ENGINE ASSEMBLY	
	1001141721	Ref	Machines without Arctic Package	A
	1001141723	Ref	Machines with Arctic Package	A
1	0080181	1	Adaptor, Pump Mounting Plate	
2	0080201	1	Elbow, Rubber	
3	0100011	AR	Compound, Locking	
4	0340041	2	Band, Air Cleaner Mounting	
5	0340046	2	Band, Muffler Mounting	
6	0400075	1	Battery, 12V	
7	0630569	8	Bolt M14 x 30mm	
8	0641405	2	Bolt 1/4in-20NC x 5/8in	
9	0641406	8	Bolt 1/4in-20NC x 3/4in	
10	0641408	4	Bolt 1/4in-20NC x 1in	
11	0641410	2	Bolt 1/4in-20NC x 1-1/4in	
12	0641506	8	Bolt 5/16in-18NC x 3/4in	
13	0641507	6	Bolt 5/16in-18NC x 7/8in	
14	0641608	2	Bolt 3/8in-16NC x 1in	
15	0641609	5	Bolt 3/8in-16NC x 1-1/8in	
16	0641610	32	Bolt 3/8in-16NC x 1-1/4in	
17	0641611	2	Bolt 3/8in-16NC x 1-3/8in	
18	0641614	2	Bolt 3/8in-16NC x 1-3/4in	
19	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
20	0741608	2	Screw, Countersunk 3/8in-16NC x 1in	
21	0760815	4	Bolt M8 x 35mm	
22	0962172	1	Bushing, Flanged	
23	1320012	4	Clamp	
24	1320016	4	Clamp	
25	1320022	3	Clamp	
26	1320058	1	Clamp	
27	1320223	6	Clamp	
28	1320318	2	P-Clamp	
29	1340060	1	Air Cleaner Assembly	
	7012664	1	Element, Air Cleaner	
30	1580011	1	Container, Coolant Overflow	
31	1660255	1	Coupling, Pump	
32	1703162	2	Decal - Caution Fan	
33	2720058	2.5ft/0.8m	Hose	
34	2720271	1.25ft/0.38m	Hose	
35	2720615	1.5ft/0.46m	Hose	
36	3200378	4	Mount, Motor	
37		1	Muffler Options:	
	3220113		Standard Spark Arresting Muffler	
	70001017	1	Clamp	
	1001107116		Optional Catalytic Muffler (Not Available on Arctic Machines)	
	70002705	1	Clamp	
	70002706	1	Plug, Brass	

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FIGURE 2-6. CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
38	3311405	14	Locknut 1/4in-20NC	
39	3311505	8	Locknut 5/16in-18NC	
40	3311605	21	Locknut 3/8in-16NC	
41	3311805	4	Locknut 1/2in-13NC	
42	3571008	1	Plate, Air	
43	3571009	1	Plate, Baffle	
44	3573667	1	Plate, Radiator Support	
45	3574253	1	Plate, Engine Mounting (Front)	
46	3574259	2	Plate, Engine Mounting (Rear)	
47	3740067	1	Relay	
48	3960438	28in/71cm	Seal, Self Gripping	
49	4031711	4	Bolt M6 x 35mm	
50	4100025	1.6ft/0.49m	Sleeve, Fiberglass	
51	4568743	1	Pipe, Exhaust	
52	4569176	1	Tube, Air Intake	
53	4711400	18	Flatwasher, 1/4in Thin	
54	4711500	8	Flatwasher 5/16in Thin	
55	4711600	24	Flatwasher 3/8in Thin	
56	4740274	4	Washer, Snubbing	
57	4751400	12	Flatwasher 1/4in Regular	
58	4751500	14	Flatwasher 5/16in Regular	
59	4751600	38	Flatwasher 3/8in Regular	
60	4751800	12	Flatwasher 1/2in Regular	
61	4891500	4	Flatwasher 5/16in Hardened	
62	4891600	2	Flatwasher 3/8in Hardened	
63	8405006	1	Clamp, Gear	
64	91401281	1	Angle, Battery Hold-Down	
65	1001093382	2	J-Bolt	
66	1001097588	1	Clip, Tube	
67	1001098525	1	Plate, Muffler Support	
68	1001099442	1	Plate, Radiator Mount	
69	1001100577	1	Hose, Radiator (Top)	
70	1001100818	1	Hose, Radiator (Bottom)	
71	1001100825	2	Strap, Ties	
72	1001100837	1	Bracket, Bottle	
73	1001101201	1	Spacer, Fan	
74	1001101408	1	Fan	
75	1001101620	1	Tray, Engine	
76	1001101681	1	Elbow, Rubber	
77	1001101950	1	Tube, Air Intake	
78	1001102585	1	Mount, Motor/Generator	
79	1001102706	1	Radiator	
	7027412	1	Cap, Radiator	
	70004091	1	Shroud, Radiator	
80	1001106426	1	Caterpillar Engine Assembly	
81	1001121115	1	Mount, Relay	
82	1001138238	2	Pad, Wear	
83 to 89	Not Used			

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FIGURE 2-6. CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: Arctic Package Items 90 - 94 Not Shown - Used on Arctic Machines Only	
90	1702941	1	Decal - Battery Heater	
91	1702942	1	Decal - Engine Block Heater	
92	2580024	1	Heater, Battery	
93	2580054	1	Heater, Engine Block	
94	3980007	1	Seat, Battery	
		Ref	CATERPILLAR ENGINE INSTALLATION	
	1001141485	Ref	Machines without Arctic Package	A
	1001141489	Ref	Machines with Arctic Package	A
101	0100011	AR	Compound, Locking	
102	0100020	AR	Sealant	
103	0641406	3	Bolt, 1/4in-20NC x 3/4in	
104	0641408	5	Bolt, 1/4in-20NC x 1in	
105	0641418	2	Bolt, 1/4in-20NC x 2-1/4in	
106	0641420	1	Bolt, 1/4in-20NC x 2-1/2in	
107	0641608	3	Bolt, 3/8in-16NC x 1in	
108	0641612	2	Bolt, 3/8in-16NC x 1-1/2in	
109	0642010	1	Bolt, 5/8in-11NC x 1-1/4in	
110	0902443	1	Bracket, Hood Latch Mount	
111	1320022	7	Clamp, Fuel Line	
112	1320223	AR	Clamp, J Clip 1/2in	
113	1320318	2	Clamp	
114	1701505	1	Decal, Diesel (Not Shown)	
115	2180536	1	Fitting, Barbed	
116	2220250	1	Fitting, Reducer	
117	2220273	1	Fitting, Reducer	
118	2220313	1	Fitting, Elbow Barbed	
119	2220459	1	Fitting, Elbow	
120	2220794	1	Fitting, Straight Barbed	
121		2.7 Gal	Coolant, Anti-Freeze Options (Not Shown):	
	2300004		Without Arctic Package (ANSI/ANSI Export/CE Spec)	
	2300041		With Arctic Package	
122	2720058	10ft/3.0m	Hose	
123	2720271	8ft/2.4m	Hose	
124	2750532	7ft/2.1m	Hose	
125	3311405	11	Locknut 1/4in-20NC	
126	3312005	1	Locknut 5/8in-11NC	
127	3340399	1	Pad, Wear	
128	3900254	1	Screw, Shoulder	
129	4070497	2	Shim (11Ga)	
130	4070498	1	Shim (16Ga)	
131	4711400	3	Flatwasher 1/4in Thin	
132	4740362	5	Washer, Fender	
133	4751400	15	Flatwasher 1/4in Regular	
134	4751600	5	Flatwasher 3/8in Regular	
135	4752000	1	Flatwasher 5/8in Regular	
136	4752200	2	Flatwasher 3/4in Regular	

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FIGURE 2-6. CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
137	1001099364	1	Mount, Hood	
138	1001100857	1	Separator, Fuel-Water	
	70002377	1	Filter	
	70002378	1	Seal, O-Ring	
139	1001139079	1	Valve Assembly	
	7012974	2	Cartridge without Coil	
	7010543	2	Seal Kit - 7012974 Cartridge	
	70002386	2	Coil	
140	1001140674	1	Panel, Rubber	
141 to 150	Not Used	Ref	Note: Arctic Package Items 151-156 Not Shown - Used on Arctic Machines Only	
151	1060625	1	Cord, Immersion Heater (Located on Bottom of Hyd Oil Tank)	
152	1060626	1	Cord, 3 Way Extension (Located on Left Front of Engine)	
153	1702943	1	Decal - Hydraulic Tank Heater (Located on bottom of Hydraulic Oil Tank)	
154	1702944	1	Decal - Heater Cord (Located on Left Front of Engine)	
155	2580050	1	Heater, Hydraulic Tank (Located on Bottom of Hyd Oil Tank)	
156	4460488	3	Clamp (Located on Left Front of Engine)	
157 to 159	Not Used	Ref	DECAL - WARNING EXPLOSION/FIRE OPTIONS :	
160	1704972	1	ANSI Spec	
	1706098		ANSI Export, Australian & CE Specs	
	1706059		Brazilian Spec	
	1706060		Chinese Spec	
	1706064		CSA Spec	
	1706062		Japanese Spec	
	1706061		Korean Spec	
	1706063		Spanish Language	
		Ref	CATERPILLAR ENGINE SUB-ASSEMBLY OPTIONS:	
	1001141486	Ref	Machines without Arctic Package	A
	1001141490	Ref	Machines with Arctic Package	A
201	0100011	AR	Compound, Locking	
202	0630569	1	Bolt M14 x 30mm	
203	0641610	2	Bolt 3/8in-16NC x 1-1/4in	
204	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
205	2151212	2	Fitting, Elbow	
206	2220376	1	Fitting, Straight	
207	2220383	2	Fitting, Tee	
208	2222567	1	Fitting, Elbow	
209	2222578	1	Fitting, Elbow	
210	2220603	2	Fitting, Straight	
211	2220947	1	Fitting, Straight	
212	2221026	1	Fitting, Tee	
213	2221041	1	Fitting, Tee	
214		2.5 Gal	Oil, Motor Options (Not Shown):	
	3020016		Without Arctic Package	
	3020044		With Arctic Package	

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FIGURE 2-6. CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
215	3600318	1	Gear Pump Assembly (See GEAR PUMP ASSEMBLY for Breakdown)	
216	3600385	1	Piston Pump Assembly (See PISTON PUMP ASSEMBLY for Breakdown)	
217	3600423	1	Auxiliary Pump Assembly (See AUXILIARY PUMP ASSEMBLY for Breakdown)	
218	3790152	1	O-Ring	
219	3931620	2	Capscrew, Socket Head 3/8in-16NC x 1-1/4in	
220	4751600	2	Flatwasher 3/8in Regular	
221	4751800	1	Flatwasher 1/2in Regular	
222	4891600	2	Flatwasher 3/8in Hardened	
223	88662037	1	Fitting, Straight	
224	1001102860	1	Battery Cable Kit	A
224A	7027025	1	Cable - Battery to Auxiliary Relay	
224B	7027026	1	Cable - Battery & Auxiliary Pump to Ground	
224C	7027023	1	Cable - Auxiliary Relay to Starter	
224D	7027024	1	Cable - Auxiliary Relay to Auxiliary Pump	
225	Not Used			
226	1001141913	2	Valve, Check	
	1001106426	Ref	CATERPILLAR ENGINE COMPONENTS	C
301	7026848	1	Valve, Breather	
	7026846	1	Gauze, Breather Valve	
302	7026847	4	Seal, Valve Cover Nut	
303	7026849	1	Gasket, Air Intake	
304	7026850	1	Seal, Valve Cover	
305	7026852	1	Flywheel with Starter Gear Set	
	7026853	1	Gear, Rim	
	7026851	1	Seal, Rear Main (Not Shown)	
306	Use 70001403	1	Filter, Oil (was p/n 7026855)	
307	7026860	1	Cap, Oil Fill	
	7026856	1	Seal, Oil Fill Cap	
308	7026858	1	Valve, Relief	
	7026857	1	Seal	
309	7026864	1	Pump, Water	
	7026863	1	Gasket, Water Pump (Fits Between Pump and Pump Rear Plate)	
	7026865	1	Gasket, Water Pump (Fits Between Pump Rear Plate and Engine Block)	
310	7026867	1	Thermostat	
	7026866	1	Gasket (Fits Between Regulator & Engine Block)	
	7026868	1	Gasket (Fits Between Regulator & Hose Adapter)	
311	7026869	1	Gasket, Exhaust	
312	7026870	1	Gasket, Exhaust Manifold	
313	70003758	1	Filter Assembly	
	70003791	1	Element, Fuel Filter (was p/n 7026871)	
	7026872	1	Gasket, Fuel Filter Element	
314	7026873	1	Pump, Fuel Transfer	
	7026874	1	Seal	
315	7026875	4	Injector, Fuel	

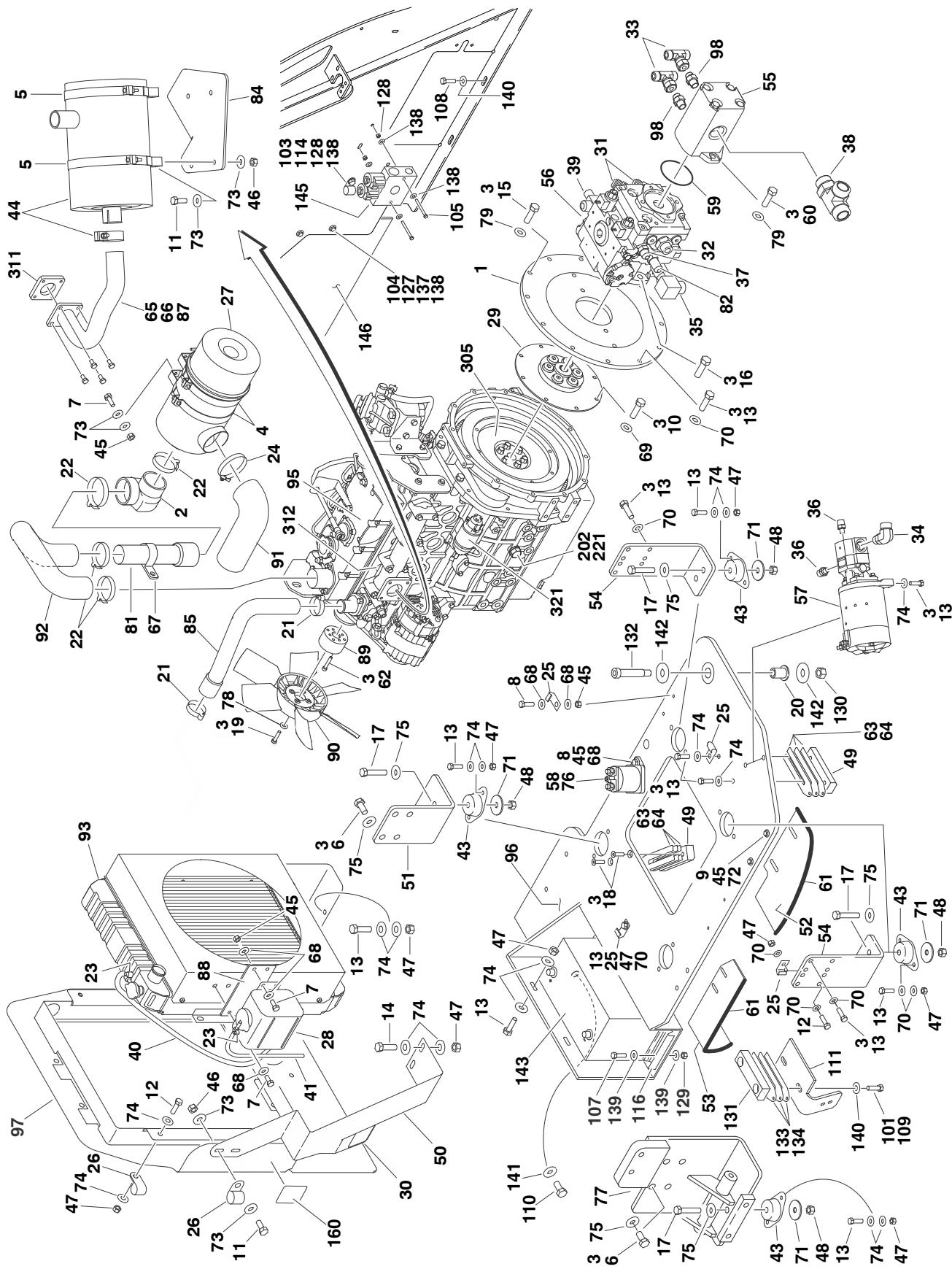
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FIGURE 2-6. CATERPILLAR ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

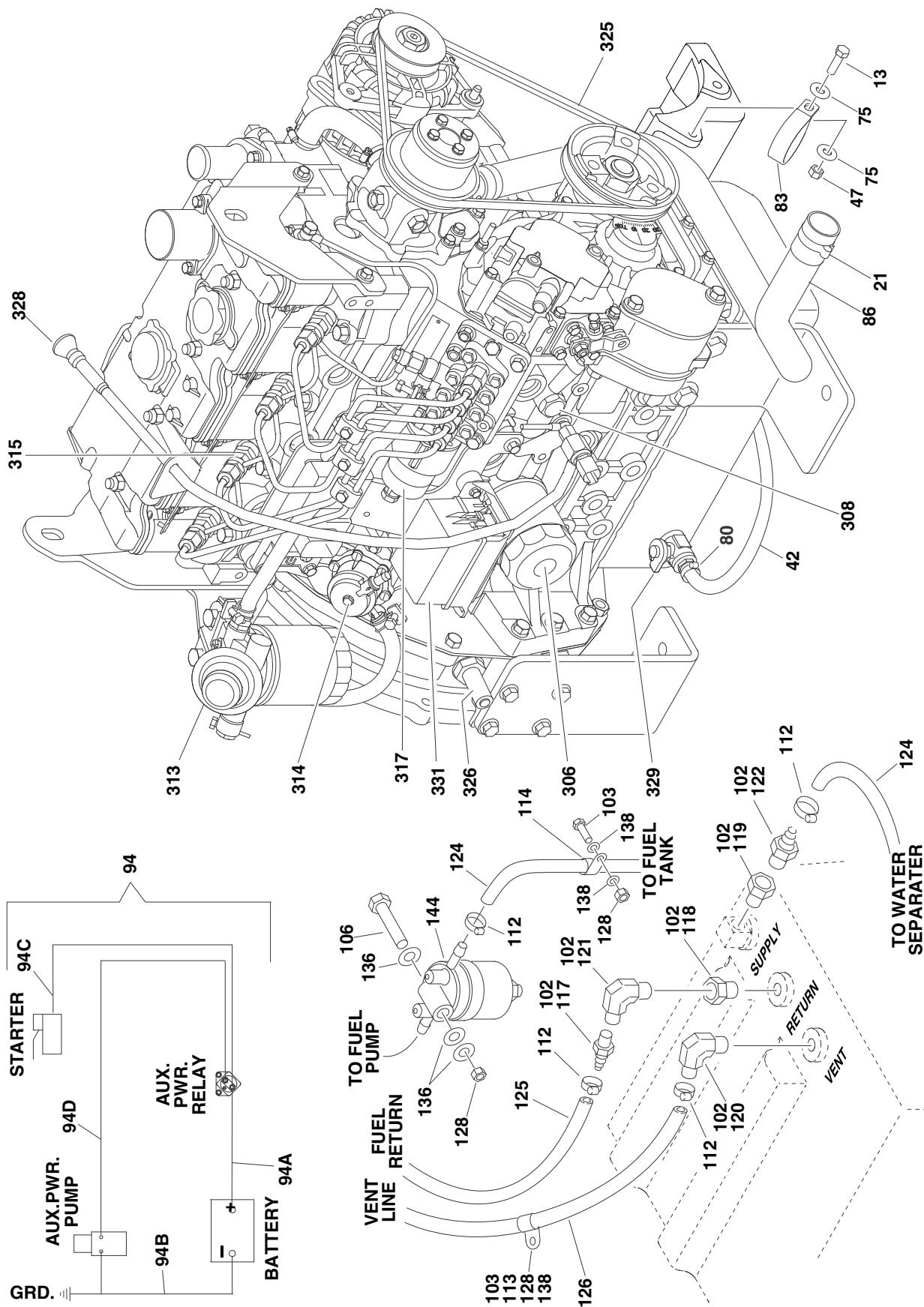
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
316	Not Used			
317	70003541	1	Actuator	
318	70003768	1	Alternator	
319	7026878	4	Glowplug	
320	70003759	1	Switch, Oil Pressure	
	70003760	1	Adapter, Oil Pressure Switch	
321	70003769	1	Starter	
322	7026854	1	Seal, Front Main (Not Shown)	
323	7026859	1	Gasket, Oil Pan (Not Shown)	
324	7026862	1	Gasket, Valve Bracket (Not Shown - Located Between Valve Bracket & Cylinder Head)	
325	70003761	1	Belt	
326	70003762	1	Sensor, Speed	
	70003766	1	Sensor, Speed	
327	70003765	1	Sensor, Temperature (Not Shown)	
328	70003763	1	Dipstick	
	70003764	1	Tube, Dipstick	
329	4641272	1	Valve, Oil Drain	
	7026861	1	Seal, Oil Drain Valve	
330	70003767	1	Harness, Engine (Not Shown)	
331	70003770	1	ECM	

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FIGURE 2-7.CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)



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FIGURE 2-7. CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001141999	Ref	CATERPILLAR ENGINE ASSEMBLY	A
1	0080181	1	Adaptor, Pump Mounting Plate	
2	0080201	1	Elbow, Rubber	
3	0100011	AR	Compound, Locking	
4	0340041	2	Band, Air Cleaner Mounting	
5	0340046	2	Band, Muffler Mounting	
6	0630569	9	Bolt M14 x 30mm	
7	0641406	8	Bolt 1/4in-20NC x 3/4in	
8	0641408	3	Bolt 1/4in-20NC x 1in	
9	0641410	2	Bolt 1/4in-20NC x 1-1/4in	
10	0641506	8	Bolt 5/16in-18NC x 3/4in	
11	0641507	6	Bolt 5/16in-18NC x 7/8in	
12	0641609	5	Bolt 3/8in-16NC x 1-1/8in	
13	0641610	39	Bolt 3/8in-16NC x 1-1/4in	
14	0641611	2	Bolt 3/8in-16NC x 1-3/8in	
15	0641614	2	Bolt 3/8in-16NC x 1-3/4in	
16	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
17	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
18	0741610	2	Screw, Countersunk 3/8in-16NC x 1-1/4in	
19	0760815	4	Bolt M8 x 35mm	
20	0962172	1	Bushing, Flanged	
21	1320012	4	Clamp	
22	1320016	4	Clamp	
23	1320022	3	Clamp	
24	1320058	1	Clamp	
25	1320223	5	Clamp	
26	1320318	2	P-Clamp	
27	1340060	1	Air Cleaner Assembly	
	7012664	1	Element, Air Cleaner	
28	1580011	1	Container, Coolant Overflow	
29	1660255	1	Coupling, Pump	
30	1703162	2	Decal - Caution Fan	
31	2151212	2	Fitting, Elbow	
32	2220376	1	Fitting, Straight	
33	2220383	2	Fitting, Tee	
34	2220567	1	Fitting, Elbow	
35	2220578	1	Fitting, Elbow	
36	2220603	2	Fitting, Straight	
37	2220947	1	Fitting, Straight	
38	2221026	1	Fitting, Tee	
39	2221041	1	Fitting, Tee	
40	2720058	2.5ft/0.8m	Hose	
41	2720271	1.25ft/0.38m	Hose	
42	2720615	1.5ft/0.46m	Hose	
43	3200378	4	Mount, Motor	

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FIGURE 2-7. CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
44		1	Muffler Options: Standard Spark Arresting Muffler Clamp Optional Catalytic Muffler (Not Available on Arctic Machines) Clamp Plug, Brass	
	3220113	1		
	70001017	1		
	1001107116			
	70002705	1		
	70002706	1		
45	3311405	11	Locknut 1/4in-20NC	
46	3311505	6	Locknut 5/16in-18NC	
47	3311605	22	Locknut 3/8in-16NC	
48	3311805	4	Locknut 1/2in-13NC	
49	3340399	2	Pad, Wear	
50	3573937	1	Plate, Radiator Support	
51	3577130	1	Plate, Engine Mounting (Front)	
52	3571032	1	Plate, Baffle	
53	3571033	1	Plate, Air	
54	3577135	2	Plate, Engine Mounting (Rear)	
55	3600318	1	Gear Pump Assembly (See GEAR PUMP ASSEMBLY for Breakdown)	
56	3600385	1	Piston Pump Assembly (See PISTON PUMP ASSEMBLY for Breakdown)	
57	3600423	1	Auxiliary Pump Assembly (See AUXILIARY PUMP ASSEMBLY for Breakdown)	
58	3740067	1	Relay	
59	3790152	1	O-Ring	
60	3931620	2	Capscrew, Socket Head 3/8in-16NC x 1-1/4in	
61	3960438	28in/71cm	Seal, Self Gripping	
62	4031711	4	Bolt M6 x 35mm	
63	4070497	4	Shim (11Ga)	
64	4070498	2	Shim (16Ga)	
65	4100025	1.6ft/0.49mm	Sleeve, Fiberglass	
66	4568743	1	Pipe, Exhaust	
67	4569176	1	Tube, Air Intake	
68	4711400	12	Flatwasher, 1/4in Thin	
69	4711500	8	Flatwasher 5/16in Thin	
70	4711600	26	Flatwasher 3/8in Thin	
71	4740274	4	Washer, Snubbing	
72	4751400	12	Flatwasher 1/4in Regular	
73	4751500	12	Flatwasher 5/16in Regular	
74	4751600	42	Flatwasher 3/8in Regular	
75	4751800	13	Flatwasher 1/2in Regular	
76	4791400	2	Starwasher 1/4in	
77	4846821	1	Mount, Motor/Generator	
78	4891500	4	Flatwasher 5/16in Hardened	
79	4891600	2	Flatwasher 3/8in Hardened	
80	8405006	1	Clamp, Gear	
81	85941018	1	P-Clamp	
82	88662037	1	Fitting, Straight	
83	1001097588	1	Clip, Tube	
84	1001098525	1	Plate, Muffler Support	
85	1001100577	1	Hose, Radiator (Top)	

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FIGURE 2-7. CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
86	1001100818	1	Hose, Radiator (Bottom)	
87	1001100825	2	Tie-Strap	
88	1001100837	1	Bracket, Bottle	
89	1001101201	1	Spacer, Fan	
90	1001101408	1	Fan	
91	1001101681	1	Elbow, Rubber	
92	1001101950	1	Tube, Air Intake	
93	1001102706	1	Radiator	
	7027412	1	Cap, Radiator	
	70004091	1	Shroud, Radiator	
94	1001102860	1	Battery Cable Kit	A
94A	7027025	1	Cable - Battery to Auxiliary Relay	
94B	7027026	1	Cable - Battery & Auxiliary Pump to Ground	
94C	7027023	1	Cable - Auxiliary Relay to Starter	
94D	7027024	1	Cable - Auxiliary Relay to Auxiliary Pump	
95	1001106426	1	Caterpillar Engine Assembly	
96	1001106790	1	Tray, Engine	
97	1001106793	1	Support, Radiator	
98	1001141913	2	Valve, Check	
99 to 100	Not Used			
	1001141998	Ref	CATERPILLAR ENGINE INSTALLATION	A
101	0100011	AR	Compound, Locking	
102	0100020	AR	Sealant	
103	0641406	3	Bolt 1/4in-20NC x 3/4in	
104	0641408	5	Bolt 1/4in-20NC x 1in	
105	0641418	2	Bolt 1/4in-20NC x 2-1/4in	
106	0641420	1	Bolt 1/4in-20NC x 2-1/2in	
107	0641512	2	Bolt 5/16n-18NC x 1-1/2in	
108	0641608	3	Bolt 3/8in-16NC x 1in	
109	0641612	2	Bolt 3/8in-16NC x 1-1/2in	
110	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
111	0902443	1	Bracket, Hood Latch Mount	
112	1320022	7	Clamp, Fuel Line	
113	1320223	AR	Clamp, J Clip 1/2in	
114	1320318	2	Clamp	
115	1701505	1	Decal, Diesel (Not Shown)	
116	1787217	1	Clamp, Battery Hold-down	
117	2180536	1	Fitting, Barbed	
118	2220250	1	Fitting, Reducer	
119	2220273	1	Fitting, Reducer	
120	2220313	1	Fitting, Elbow Barbed	
121	2220459	1	Fitting, Elbow	
122	2220794	1	Fitting, Straight Barbed	
123	2300004	2.7 Gal/10.2L	Coolant, Anti-Freeze Not Shown)	
124	2720058	10ft/3.0m	Hose	
125	2720271	8ft/2.4m	Hose	
126	2750532	7ft/2.1m	Hose	

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FIGURE 2-7. CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
127	3020016	2.5 Gal/9.5L	Oil, Motor 15W-40 (Not Shown)	
128	3311405	11	Locknut 1/4in-20NC	
129	3311505	2	Locknut 5/16in-18NC	
130	3312005	1	Locknut 5/8in-11NC	
131	3340399	1	Pad, Wear	
132	3900254	1	Screw, Shoulder	
133	4070497	2	Shim (11Ga)	
134	4070498	1	Shim (16Ga)	
135	Not Used			
136	4711400	3	Flatwasher 1/4in Thin	
137	4740362	5	Washer, Fender	
138	4751400	15	Flatwasher 1/4in Regular	
139	4751400	4	Flatwasher 5/16in Regular	
140	4751600	5	Flatwasher 3/8in Regular	
141	4752000	1	Flatwasher 5/8in Regular	
142	4752200	2	Flatwasher 3/4in Regular	
143	8008750	1	Battery	
144	1001100857	1	Separator, Fuel-Water	
	70002377	1	Filter	
	70002378	1	Seal, O-Ring	
145	1001139079	1	Valve Assembly	
	7012974	2	Cartridge without Coil	
	7010543	2	Seal Kit - 7012974 Cartridge	
	70002386	2	Coil	
146	1001140674	1	Panel, Rubber	
147 to 159	Not Used			
160		1	Decal - Warning Explosion/Fire Options :	
	1704972		ANSI Spec	
	1706098		ANSI Export, Australian & CE Specs	
	1706059		Brazilian Spec	
	1706060		Chinese Spec	
	1706064		CSA Spec	
	1706062		Japanese Spec	
	1706061		Korean Spec	
	1706063		Spanish Language	
	1001106426	Ref	CATERPILLAR ENGINE COMPONENTS	C
301	7026848	1	Valve, Breather	
	7026846	1	Gauze, Breather Valve	
302	7026847	4	Seal, Valve Cover Nut	
303	7026849	1	Gasket, Air Intake	
304	7026850	1	Seal, Valve Cover	
305	7026852	1	Flywheel with Starter Gear Set	
	7026853	1	Gear, Rim	
	7026851	1	Seal, Rear Main (Not Shown)	
306	Use 70001403	1	Filter, Oil (was p/n 7026855)	
307	7026860	1	Cap, Oil Fill	
	7026856	1	Seal, Oil Fill Cap	

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FIGURE 2-7. CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
308	7026858	1	Valve, Relief	
	7026857	1	Seal	
309	7026864	1	Pump, Water	
	7026863	1	Gasket, Water Pump (Fits Between Pump and Pump Rear Plate)	
	7026865	1	Gasket, Water Pump (Fits Between Pump Rear Plate and Engine Block)	
310	7026867	1	Thermostat	
	7026866	1	Gasket (Fits Between Regulator & Engine Block)	
	7026868	1	Gasket (Fits Between Regulator & Hose Adapter)	
311	7026869	1	Gasket, Exhaust	
312	7026870	1	Gasket, Exhaust Manifold	
313	70003758	1	Filter Assembly	
	70003791	1	Element, Fuel Filter (was p/n 7026871)	
	7026872	1	Gasket, Fuel Filter Element	
314	7026873	1	Pump, Fuel Transfer	
	7026874	1	Seal	
315	7026875	4	Injector, Fuel	
316	Not Used			
317	70003541	1	Actuator	
318	70003768	1	Alternator	
319	7026878	4	Glowplug	
320	70003759	1	Switch, Oil Pressure	
	70003760	1	Adapter, Oil Pressure Switch	
321	70003769	1	Starter	
322	7026854	1	Seal, Front Main (Not Shown)	
323	7026859	1	Gasket, Oil Pan (Not Shown)	
324	7026862	1	Gasket, Valve Bracket (Not Shown - Located Between Valve Bracket & Cylinder Head)	
325	70003761	1	Belt	
326	70003762	1	Sensor, Speed	
	70003766	1	Sensor, Speed	
327	70003765	1	Sensor, Temperature (Not Shown)	
328	70003763	1	Dipstick	
	70003764	1	Tube, Dipstick	
329	4641272	1	Valve, Oil Drain	
	7026861	1	Seal, Oil Drain Valve	
330	70003767	1	Harness, Engine (Not Shown)	
331	70003770	1	ECM	

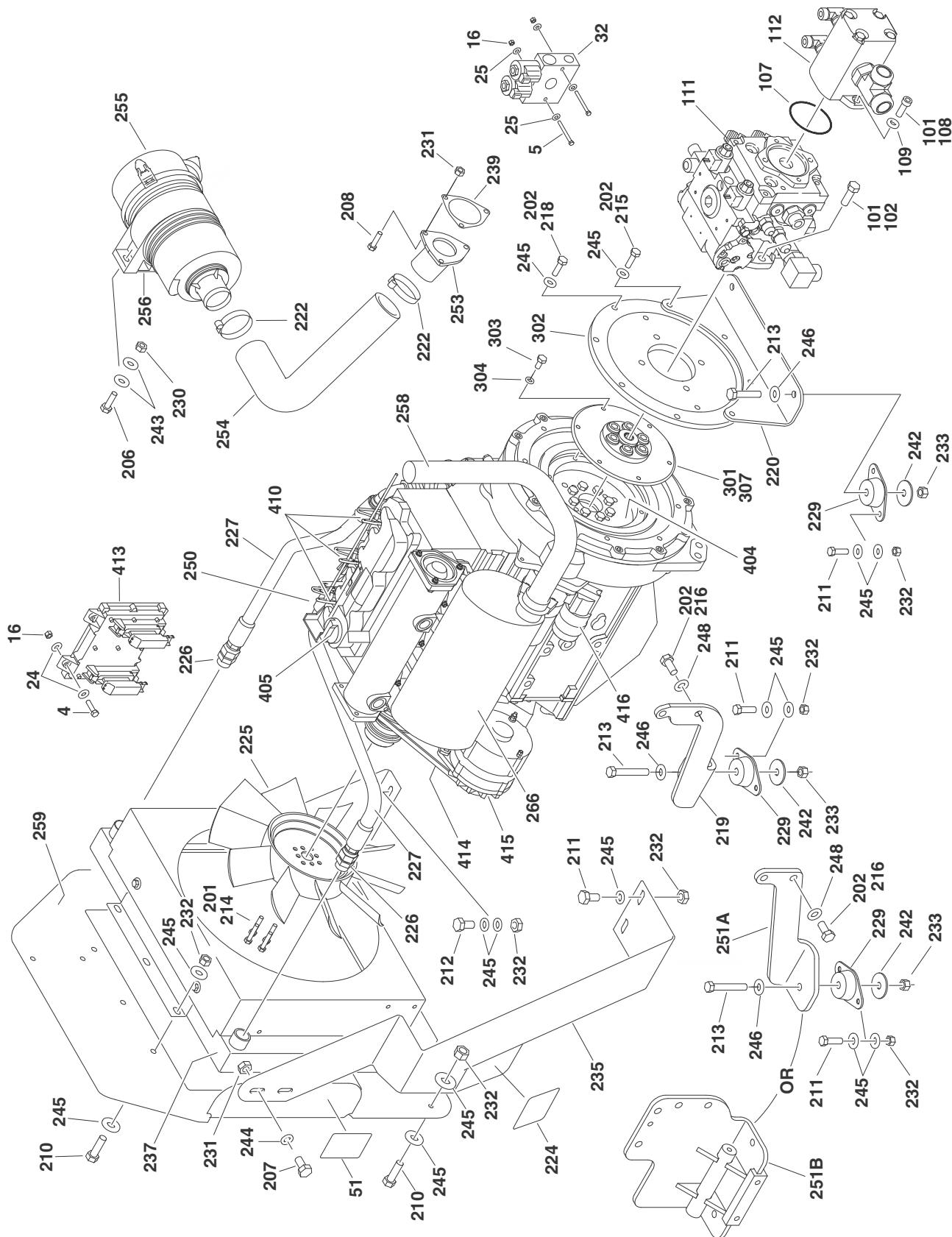
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FIGURE 2-7. CATERPILLAR ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

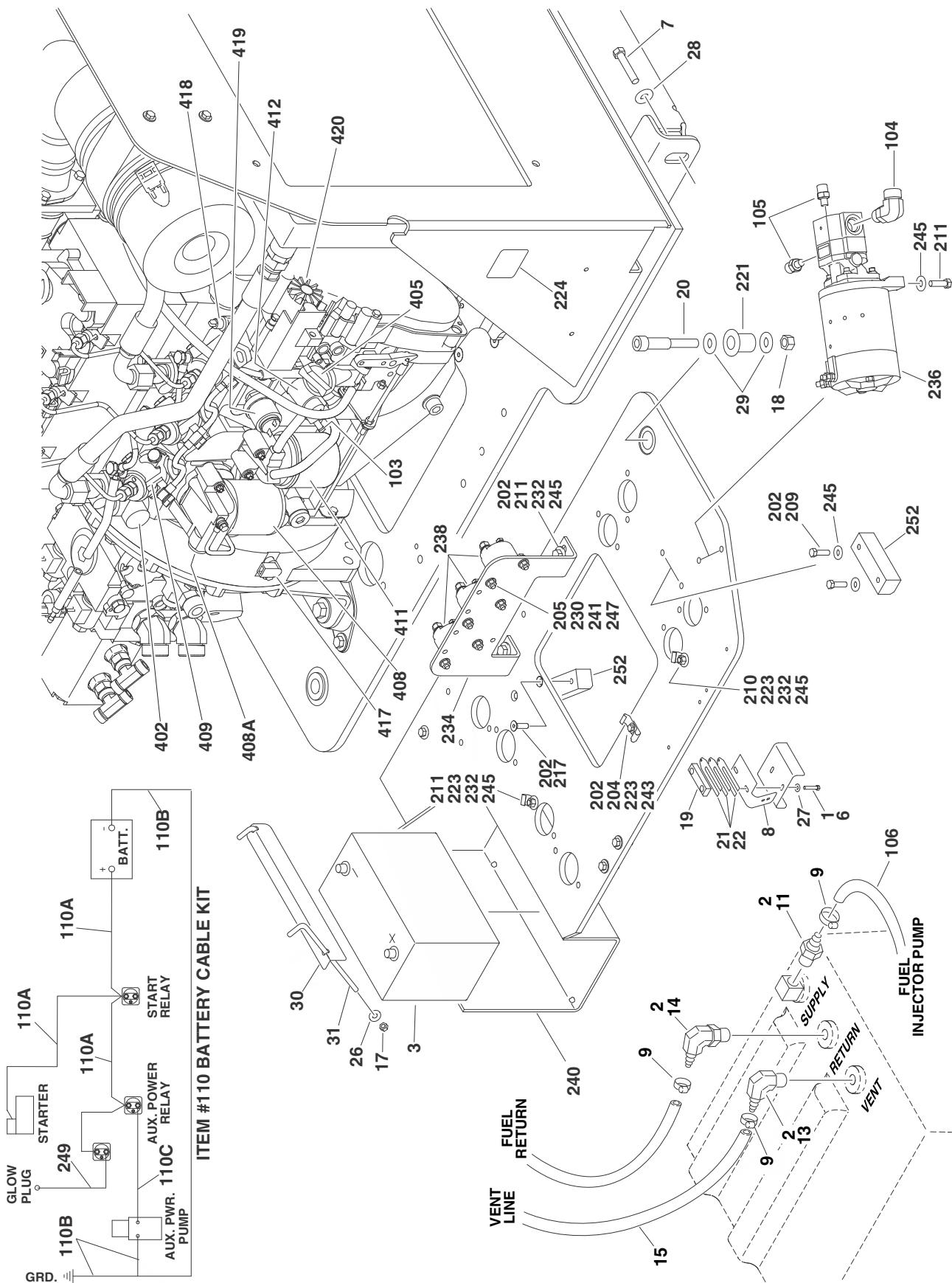
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 2-8.DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES)



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FIGURE 2-8. DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	DEUTZ ENGINE INSTALLATIONS	
		Ref	Machines without Arctic Package:	
	1001141456	Ref	ANSI & CSA Specs SN 0300160835 to SN 0300169765	A
	1001137837	Ref	ANSI & CSA Specs SN 0300169765 to Present	B
	1001141456	Ref	ANSI Export, Australian & CE Specs	A
		Ref	Machines with Arctic Package:	
	1001141487	Ref	ANSI & CSA Specs SN 0300160835 to SN 0300169765	A
	1001137840	Ref	ANSI & CSA Specs SN 0300169765 to Present	B
	1001141487	Ref	ANSI Export, Australian & CE Specs	A
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant, Pipe	
3	0400075	1	Battery (Wet)	
4	0641410	4	Bolt 1/4in-20NC x 1-1/4in	
5	0641418	2	Bolt 1/4in-20NC x 2-1/4in	
6	0641612	2	Bolt 3/8in-16NC x 1-1/2in	
7	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
8	0902443	1	Bracket, Hood Latch Mount	
9	1320022	3	Clamp, Fuel Line	
10	1701505	1	Decal, Diesel Fuel (Not Shown)	
11	2180348	1	Fitting, Barbed	
12	2200222	1	Plug, Pipe (Not Shown - Located on Bottom of Fuel Tank)	
13	2220313	1	Fitting, Elbow Barbed	
14	2221176	1	Fitting, Elbow	
15	2750532	6ft/1.83m	Hose	
16	3311405	6	Locknut 1/4in-20NC	
17	3311505	2	Locknut 5/16in-18NC	
18	3312005	1	Locknut 5/8in-11NC	
19	3340399	1	Pad, Wear	
20	3900254	1	Screw, Shoulder	
21	4070497	2	Shim (11 Gauge)	
22	4070498	1	Shim (16 Gauge)	
23	4240099	1	Wire, Tie (Not Shown - Located on Vent Line)	
24	4711400	8	Flatwasher 1/4in Thin	
25	4751400	4	Flatwasher 1/4in Regular	
26	4751500	2	Flatwasher 5/16in Regular	
27	4751600	2	Flatwasher 3/8in Regular	
28	4752000	1	Flatwasher 5/8in Regular	
29	4752200	2	Flatwasher 3/4in Regular	
30	91401281	1	Angle, Battery Hold-Down	
31	1001093382	2	J-Bolt	
32	1001139079	1	Valve Assembly	
	7012974	2	Cartridge without Coil	
	7010543	2	Seal Kit - 7012974 Cartridge	
	70002386	2	Coil	
33 to 39	Not Used			

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FIGURE 2-8. DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: Arctic Package Items 40 - 49 Not Shown - Used on Arctic Machines Only	
40	1060625	1	Cable, Immersion Heater (Located on bottom of Hydraulic Oil Tank)	
41	1060626	1	Cord, 3 Way Extension (Located on Left Front of Engine)	
42	1320223	3	Clamp (Located on Left Front of Engine)	
43	1702941	1	Decal - Battery Heater (Located on Battery Heater)	
44	1702942	1	Decal - Engine Block Heater (Located on Right Side of Engine)	
45	1702943	1	Decal - Hydraulic Tank Heater (Located on bottom of Hydraulic Oil Tank)	
46	1702944	1	Decal - Heater Cord (Located on Left Front of Engine)	
47	2580024	1	Heater, Battery (Located on Battery)	
48	2580050	1	Heater, Hydraulic Tank (Located on bottom of Hydraulic Oil Tank)	
49	3980007	1	Seat, Battery (Located on Battery)	
50	Not Used			
51		1	Decal - Warning Explosion/Fire Options: ANSI Spec ANSI Export, Australian & CE Specs Brazilian Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Spanish Language	
		Ref	ENGINE & PUMPS SUB-ASSEMBLY	
		Ref	Machines without Arctic Package:	
	1001141455	Ref	ANSI & CSA Specs SN 0300160835 to SN 0300169765	A
	1001137836	Ref	ANSI & CSA Specs SN 0300169765 to Present	B
	1001141455	Ref	ANSI Export, Australian & CE Specs	A
		Ref	Machines with Arctic Package:	
	1001141488	Ref	ANSI & CSA Specs SN 0300160835 to SN 0300169765	A
	1001137839	Ref	ANSI & CSA Specs SN 0300169765 to Present	B
	1001141488	Ref	ANSI Export, Australian & CE Specs	A
101	0100011	AR	Compound, Locking	
102	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
103	1320022	2	Clamp	
104	2220567	2	Fitting, Elbow	
105	2220603	1	Fitting, Straight	
106	2720058	24ft/7.32m	Hose	
107	3790152	1	O-Ring	
108	3931620	2	Capscrew 3/8in-16NC x 1-1/4in	
109	4891600	2	Flatwasher, 3/8in Hardened	
110	1001122202	1	Battery Cable Kit	
110A	7027040	1	Cable (Battery + to Starter Relay/Starter/Auxiliary Relay)	
110B	7027041	1	Cable (Battery - to Auxiliary Pump)	
110C	7027014	1	Cable (Auxiliary Relay to Auxiliary Pump)	

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FIGURE 2-8. DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
111	1001141448	1	Piston Pump Assembly with Fittings (See PISTON PUMP ASSEMBLY for Breakdown)	
112	1001141449	1	Gear Pump Assembly with Fittings (See GEAR PUMP ASSEMBLY for Breakdown)	
		Ref	ENGINE ASSEMBLY	
		Ref	Machines without Arctic Package:	
	1001141680	Ref	ANSI & CSA Specs SN 0300160835 to SN 0300169765	A
	1001137835	Ref	ANSI & CSA Specs SN 0300169765 to Present	B
	1001141680	Ref	ANSI Export, Australian & CE Specs	A
		Ref	Machines with Arctic Package:	
	1001141755	Ref	ANSI & CSA Specs SN 0300160835 to SN 0300169765	A
	1001137838	Ref	ANSI & CSA Specs SN 0300169765 to Present	B
	1001141755	Ref	ANSI Export, Australian & CE Specs	A
201	0080231	1	Adapter, Fan Spacer	
202	0100011	AR	Compound, Locking	
203	Not Used			
204	0641405	1	Bolt 1/4in-20NC x 5/8in	
205	0641406	6	Bolt 1/4in-20NC x 3/4in	
206	0641409	2	Bolt, 1/4in-20NC x 1-1/8in	
207	0641507	2	Bolt, 5/16in-10NC x 7/8in	
208	0641510	3	Bolt, 5/16in-10NC x 1-1/4in	
209	0641608	2	Bolt 3/8in-16NC x 1in	
210	0641609	9	Bolt 3/8in-16NC x 1-1/8in	
211	0641610	15	Bolt 3/8in-16NC x 1-1/4in	
212	0641611	2	Bolt 3/8in-16NC x 1-3/8in	
213	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
214	0700816	4	Bolt M8 x 40mm	
215		4	Bolt M10 Options:	
	0701014		Bolt M10 x 30mm (Machines without Arctic Package)	
	0701015		Bolt M10 x 35mm (Machines with Arctic Package)	
216	0711414	4	Bolt M10 x 35mm	
217	0741608	2	Screw, Countersunk 3/8in-16NC x 1in	
218		4	Bolt M10 Options:	
	0771012		Bolt M10 x 25mm (Machines without Arctic Package)	
	0701012		Bolt M10 x 25mm (Machines with Arctic Package)	
219	0902740	1	Bracket, Engine Mounting	
220	0903063	1	Plate, Engine Mounting	
221	0962172	1	Bushing, Flanged	
222	1320016	2	Clamp	
223	1320223	4	Clamp, J Clip	
224	1703162	2	Decal, Fan Blade	
225	2060025	1	Fan	
226	2220451	2	Fitting	
227	2720467	2	Hose, Oil Cooler	
228		2.5gal/9.46L	Motor Oil Options (Not Shown):	
	3020016		Without Arctic Package	
	3020044		With Arctic Package	
229	3200406	4	Mount, Rubber	

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FIGURE 2-8. DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
230	3311405	8	Locknut 1/4in-20NC	
231	3311505	5	Locknut 5/16in-18NC	
232	3311605	24	Locknut 3/8in-16NC	
233	3311805	4	Locknut 1/2in-13NC	
234	3570808	1	Plate, Relay Mount	
235	3573667	1	Support, Radiator	
236	3600423	1	Auxiliary Pump Assembly (See AUXILIARY PUMP ASSEMBLY for Breakdown)	
237	Use 1001150998	1	Radiator (was p/n 3620033)	
238	3740067	3	Relay (Auxiliary Power)	
239	3960407	1	Gasket, Air Intake	
240	4340745	1	Tray, Engine Mounting	
241	4711400	12	Flatwasher 1/4in Thin	
242	4740274	4	Washer, Snubbing	
243	4751400	5	Flatwasher 1/4in Regular	
244	4751500	4	Flatwasher 5/16in Regular	
245	4751600	60	Flatwasher 3/8in Regular	
246	4751800	4	Flatwasher 1/2in Regular	
247	4791400	6	Starwasher 1/4in	
248	4812200	4	Flatwasher, Metric 14mm	
249		1	Harness, Glow Plugs Options:	
	4923451	1	Machines without Arctic Package	
	4922642	1	Machines with Arctic Package	
250		1	Engine, Deutz Options (See Item 401-423 for Available Replacement Parts):	
	1001144476		All Specs except CSA Spec	
	1001144476		CSA Spec SN 0300160835 to SN 0300169765	
	1001137828		CSA Spec SN 0300169765 to Present	
251		1	Bracket, Motor Mount Options:	
251A	1001138135		Bracket without Generator Mounting Capabilities	
251B	4846567		Bracket with Generator Mounting Capabilities	
252	1001138238	2	Pad, Wear	
253	1001139819	1	Adapter, Air Intake	
254		1	Hose, Elbow Options:	
	1001130041		All Specs except CSA Spec	
	1001130041		CSA Spec SN 0300160835 to SN 0300169765	
	1001140334		CSA Spec SN 0300169765 to Present	
255	1001141693	1	Air Cleaner Assembly	
	70003783	1	Element, Air Cleaner	
256	1001141694	1	Clamp, Air Cleaner	
257	Not Used			
258	1001141748	1	Pipe, Exhaust	
259	1001143300	1	Plate, Radiator Mount	
260 to 264	Not Used	Ref	Note: Arctic Package Item 265 Not Shown - Used on Arctic Machines Only	
265	2580062	1	Heater, Engine Block	

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FIGURE 2-8. DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
266	7020455 70001844 3220110 1320176 3220112 1320176 0256847	1 1 1	Muffler Options: Standard Non-Spark Arresting Muffler Clamp Optional Spark Arresting Muffler (Note: Discard exhaust pipe that comes with muffler and use item #258) Clamp Optional Catalytic Muffler (Note: Not Available on Arctic Machines) (Note: Discard exhaust pipe that comes with muffler and use item #258) Clamp PUMP COUPLING INSTALLATION	
301	1660234	1	Coupling, Hayes	2
302	0080163	1	Plate, Pump Adapter	
303	0700810	6	Bolt M8 x 20mm	
304	4831900	6	Lockwasher M8	
305 to 306	Not Used			
307	3020021	AR	Grease, Coupling	
		Ref	ENGINE COMPONENTS	
	1001144476	Ref	All Specs except CSA Spec	C
	1001144476	Ref	CSA Spec SN 0300160835 to SN 0300169765	C
	1001137828	Ref	CSA Spec SN 0300169765 to Present	C
401	7020026	1	Dipstick (Not Shown)	
	70001002	1	Tube, Dipstick (Not Shown)	
402	70003475	1	Thermostat	
	7020460	1	Spring, Compression	
403		AR	Seal & Gasket Options (Not Shown)	
	70002718	1	Seal, Rear Main Crankshaft	
	7020430	1	Gasket, Valve Cover	
		1	Gasket, Cylinder Head Options: Gasket (1 Notch) Gasket (2 Notches) Gasket (3 Notches)	
	70003479		Gasket, Intake Manifold (Not Shown)	
	70003480		Gasket, Exhaust (Not Shown)	
	70003481		Flywheel	
	70001871	3	Ring, Gear	
404	70000264	1	Cap, Filler	
	7024579	1	Repair Kit for Timing Belt Tensioner (Not Shown)	
405	7020465	2	Pump, Oil Lube (Not Shown)	
406	70000800	1	Seal Between Oil Pump & Engine Block (Not Shown)	
407	70001850	1	Filter, Oil	
	7020468	1	Bracket, Oil Filter	
408	7016331	1	Sensor, Oil Temperature (Located in Rear Of Filter Mount)	
408A	70003472 7027236	1		

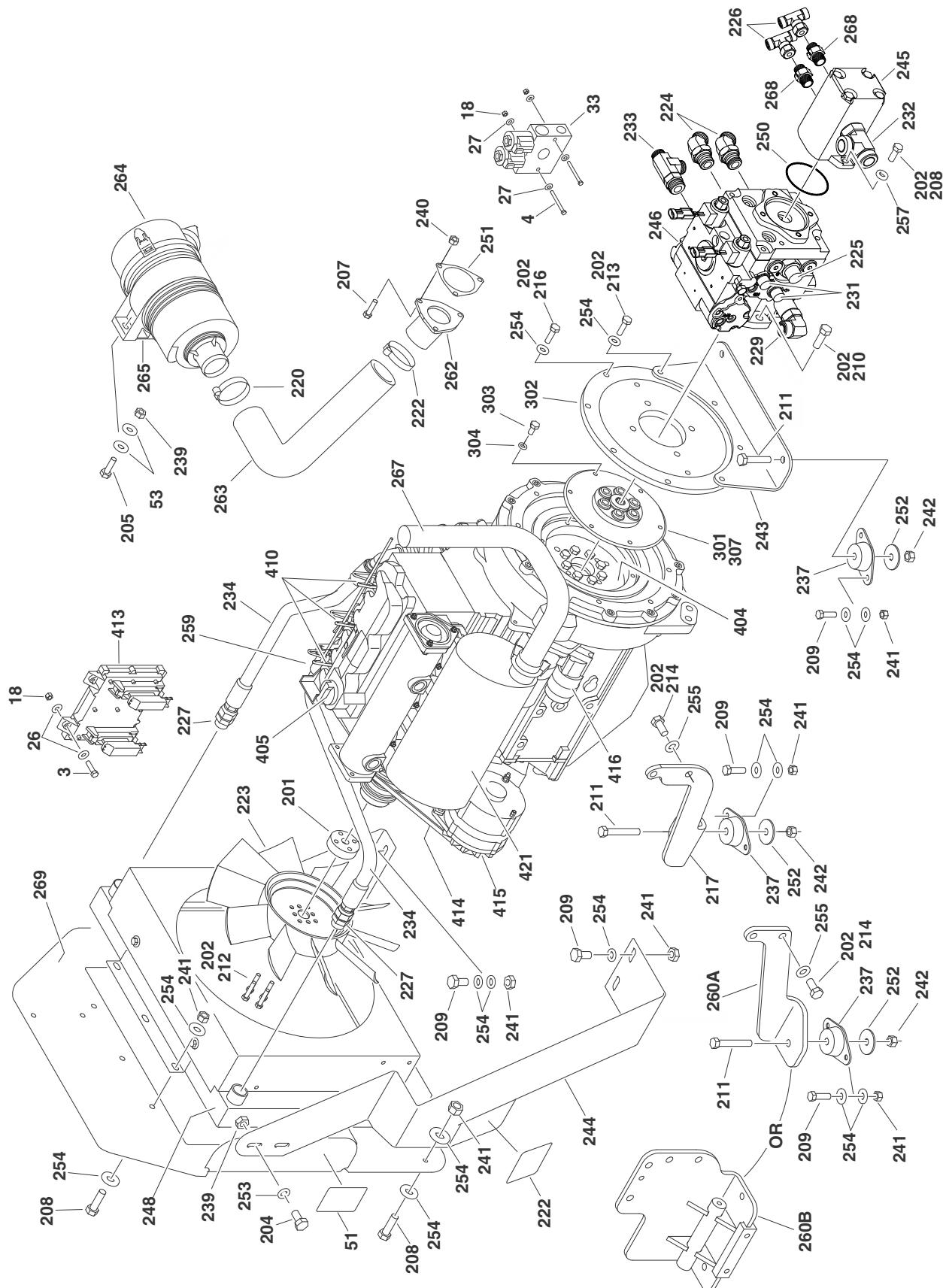
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FIGURE 2-8. DEUTZ D2011 ENGINE INSTALLATION (USA BUILT MACHINES) (CONTINUED)

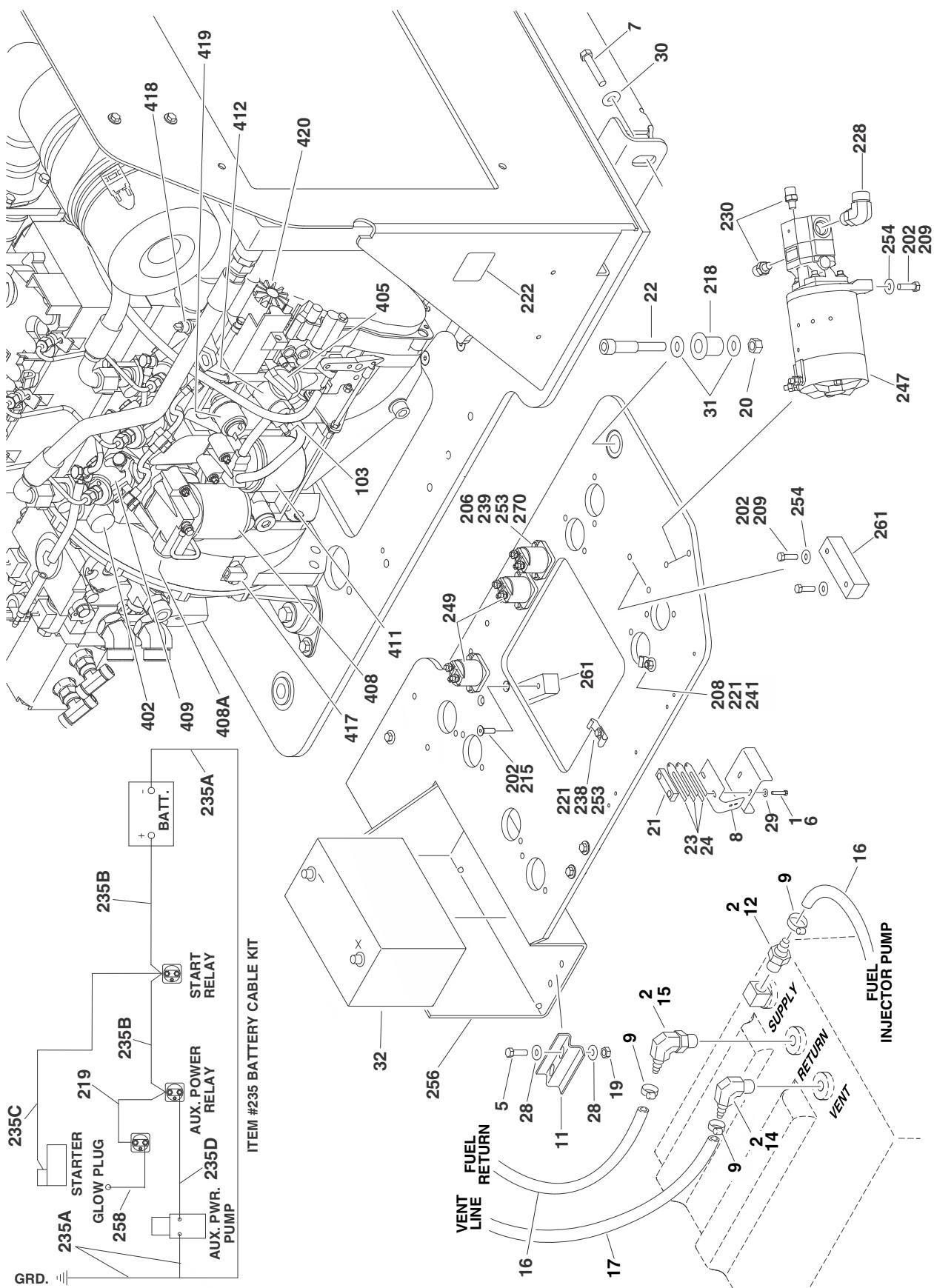
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
409	70000912 70000913 70000914 70000915	3	Pump, Injector Options: Series A Injector Series B Injector Series C Injector Series D Injector	
410	70003464 70003478 70003136 70000345	3	O-Ring, Injector Pump Injector, Fuel O-Ring, Injector Pump Plug, Glow	
411	7020023 70003463	1	Filter, Fuel Options: Standard RME Resistant (Note: Use with European Bio-Diesel Fuels)	
412	70001423 70000916 70001435 70000917 70000918 70000919	1	Bracket, Fuel Filter Pump Fuel Supply Repair Kit - Pump O-Seal Between Fuel Pump & Engine Block (Not Shown) Seal Between Fuel Pump & Hand Pump (Not Shown) Pump, Hand	
413	7027795 7027796 70004059 70004060 70001872	1	Module, EMR2 Cable, Interconnection (Not Shown) Plug, Analyzer (Not Shown) Plug, Connector (Not Shown) Harness, Engine (Not Shown)	
414	70004102	1	V-Belt	
415	70004056 70001868 70001866 70004103	1	Alternator Regulator, Voltage (Not Shown) Gasket Set for Regulator Cable, Alternator Interconnection (Not Shown)	
416	70004057 70004058 70004062	1	Starter Relay, Starter Cable, Starter Interconnection (Not Shown)	
417	7024565 70003932	1	Tacho-Generator Spacer, Sleeve	
418	7027791	1	Sensor, Temperature	
419	7027790	1	Sensor, Oil Pressure	
420	7027792	1	Actuator, Throttle	

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FIGURE 2-9.DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)



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FIGURE 2-9. DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001141527	Ref	DEUTZ ENGINE INSTALLATION	B
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant, Pipe	
3	0641410	4	Bolt 1/4in-20NC x 1-1/4in	
4	0641418	2	Bolt 1/4in-20NC x 2-1/4in	
5	0641512	2	Bolt 5/16in-18NC x 1-1/2in	
6	0641612	2	Bolt 3/8in-16NC x 1-1/2in	
7	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
8	0902443	1	Bracket, Hood Latch Mount	
9	1320022	5	Clamp, Fuel Line	
10	1701505	1	Decal, Diesel Fuel (Not Shown)	
11	1787217	1	Clamp, Battery Hold-down	
12	2180348	1	Fitting, Barbed	
13	2200222	1	Plug, Pipe (Not Shown - Located on Bottom of Fuel Tank)	
14	2220313	1	Fitting, Elbow Barbed	
15	2221176	1	Fitting, Elbow	
16	2750058	15ft/4.6m	Hose	
17	2750532	7ft/2.2m	Hose	
18	3311405	6	Locknut 1/4in-20NC	
19	3311505	2	Locknut 5/16in-18NC	
20	3312005	1	Locknut 5/8in-11NC	
21	3340399	1	Pad, Wear	
22	3900254	1	Screw, Shoulder	
23	4070497	2	Shim (11 Gauge)	
24	4070498	1	Shim (16 Gauge)	
25	4240099	1	Wire, Tie (Not Shown - Located on Vent Line)	
26	4711400	8	Flatwasher 1/4in Thin	
27	4751400	4	Flatwasher 1/4in Regular	
28	4751500	4	Flatwasher 5/16in Regular	
29	4751600	2	Flatwasher 3/8in Regular	
30	4752000	1	Flatwasher 5/8in Regular	
31	4752200	2	Flatwasher 3/4in Regular	
32	8008750	1	Battery	
33	1001139079	1	Valve Assembly	
	7012974	2	Cartridge without Coil	
	7010543	2	Seal Kit - 7012974 Cartridge	
	70002386	2	Coil	
33 to 50	Not Used			
51		1	Decal - Warning Explosion/Fire Options: ANSI Spec ANSI Export, Australian & CE Specs Brazilian Spec Chinese Spec CSA Spec Japanese Spec	
	1704972			
	1706098			
	1706059			
	1706060			
	1706064			
	1706062			

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FIGURE 2-9. DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
51 (cont'd)	1706061		Korean Spec	
	1706063		Spanish Language	
52 to 200	Not Used			
	1001141528	Ref	ENGINE ASSEMBLY	F
201	0080231	1	Adapter, Fan Spacer	
202	0100011	AR	Compound, Locking	
203	Not Used			
204	0641406	2	Bolt 1/4in-20NC x 3/4in	
205	0641409	2	Bolt, 1/4in-20NC x 1-1/8in	
206	0641410	6	Bolt, 1/4in-20NC x 1-1/4in	
207	0641510	3	Bolt, 5/16in-10NC x 1-1/4in	
208	0641608	11	Bolt 3/8in-16NC x 1in	
209	0641610	16	Bolt 3/8in-16NC x 1-1/4in	
210	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
211	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
212	0700816	4	Bolt M8 x 40mm	
213	0701014	4	Bolt M10 x 30mm	
214	0711414	4	Bolt M10 x 35mm	
215	0741610	2	Screw, Countersunk 3/8in-16NC x 1-1/4in	
216	0771012	4	Bolt M10 x 25mm	
217	0902740	1	Bracket, Engine Mounting (Left)	
218	0962172	1	Bushing, Flanged	
219	1060904	1	Cable, Jumper	
220	1320016	2	Clamp	
221	1320223	3	Clamp, J Clip	
222	1703162	2	Decal, Fan Blade	
223	2060025	1	Fan	
224	2151212	2	Fitting, Elbow	
225	2220376	1	Fitting, Straight	
226	2220383	2	Fitting, Tee	
227	2220451	2	Fitting, Straight	
228	2220567	1	Fitting, Elbow	
229	2220578	1	Fitting, Elbow	
230	2220603	2	Fitting, Straight	
231	2220947	2	Fitting, Straight	
232	2221026	2	Fitting, Tee	
233	2221041	1	Fitting, Tee	
234	2720467	2	Hose, Oil Cooler	
235	2902060	1	Battery Cable Kit	
235A	Use 7027041	1	Cable (Battery - to Ground) (was p/n 7016837)	
235B	7027050	1	Cable (Battery + to Relays)	
235C	7016820	1	Cable (Auxilliary Relay to Starter)	
235D	7016834	1	Cable (Auxilliary Relay to Auxilliary Pump)	
236	3020016	2.5gal/9.46L	Motor Oil (Not Shown)	
237	3200406	4	Mount, Rubber	
238	3311401	1	Nut 1/4in-20NC	
239	3311405	10	Locknut 1/4in-20NC	C

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FIGURE 2-9. DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
240	3311505	3	Locknut 5/16in-18NC	
241	3311605	21	Locknut 3/8in-16NC	
242	3311805	4	Locknut 1/2in-13NC	
243		1	Bracket, Engine Mounting (Rear) Options: 3570801 Bracket for SN E300001114 to SN E300001394 0903063 Bracket for SN E300001394 to Present	
244	3573937	1	Support, Radiator	
245	3600318	1	Gear Pump Assembly (See GEAR PUMP ASSEMBLY for Breakdown)	
246	3600385	1	Piston Pump Assembly (See PISTON PUMP ASSEMBLY for Breakdown)	
247	3600423	1	Auxiliary Pump Assembly (See AUXILIARY PUMP ASSEMBLY for Breakdown):	
248	1001150998	1	Radiator	
249	3740067	3	Relay (Auxiliary Power)	
250	3790152	1	O-Ring	
251	3960407	1	Gasket, Air Intake	
252	4740274	4	Washer, Snubbing	
253	4751400	21	Flatwasher 1/4in Regular	
254	4751600	44	Flatwasher 3/8in Regular	
255	4812200	4	Flatwasher, M4	
256	4846683	1	Tray, Engine Mounting	
257	4891600	2	Flatwasher, 3/8in Hardened	
258	4923451	1	Harness, Glow Plugs	
259	1001144476	1	Engine, Deutz	
260		1	Bracket, Motor Mount Options:	
260A	1001138135		Bracket without Generator Mounting Capabilities	
260B	4846567		Bracket with Generator Mounting Capabilities	
261	1001138238	2	Pad, Wear	
262	1001139819	1	Adapter, Air Intake	
263	1001140334	1	Hose, Air Intake	
264	1001141693	1	Air Cleaner Assembly 70003783 Element, Air Cleaner	
265	1001141694	1	Clamp, Air Cleaner	
266	Not Used			
267	1001141748	1	Pipe, Exhaust	
268	1001141913	2	Fitting, Check Valve	
269	1001142230	1	Plate, Radiator Mount	
270	4791400	6	Starwasher 1/4in	
	0256847	Ref	PUMP COUPLING INSTALLATION	2
301	1660234	1	Coupling, Hayes	
302	0080163	1	Plate, Pump Adapter	
303	0700810	63	Bolt M8 x 20mm	
304	4831900	6	Lockwasher M8	
305 to 306	Not Used			
307	3020021	AR	Grease, Coupling	

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FIGURE 2-9. DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001144476	Ref	ENGINE COMPONENTS	C
401	7020026	1	Dipstick (Not Shown)	
	70001002	1	Tube, Dipstick (Not Shown)	
402	70003475	1	Thermostat	
	7020460	1	Spring, Compression	
403		AR	Seal & Gasket Options (Not Shown)	
	70002718	1	Seal, Rear Main Crankshaft	
	7020430	1	Gasket, Valve Cover	
		1	Gasket, Cylinder Head Options:	
	70003479		Gasket (1 Notch)	
	70003480		Gasket (2 Notches)	
	70003481		Gasket (3 Notches)	
	70001871	3	Gasket, Intake Manifold (Not Shown)	
	7020471	3	Gasket, Exhaust (Not Shown)	
404	70000264	1	Flywheel	
	7024579	1	Ring, Gear	
405	7020465	2	Cap, Filler	
406	70001850	1	Repair Kit for Timing Belt Tensioner (Not Shown)	
407	70001850	1	Pump, Oil Lube (Not Shown)	
	7020468	1	Seal Between Oil Pump & Engine Block (Not Shown)	
408	7016331	1	Filter, Oil	
	70003472	1	Bracket, Oil Filter	
408A	7027236	1	Sensor, Oil Temperature (Located in Rear Of Filter Mount)	
409		3	Pump, Injector Options:	
	70000912		Series A Injector	
	70000913		Series B Injector	
	70000914		Series C Injector	
	70000915		Series D Injector	
	70003464	3	O-Ring, Injector Pump	
410	70003478	3	Injector, Fuel	
	70003136	3	O-Ring, Injector Pump	
	70000345	3	Plug, Glow	
411		1	Filter, Fuel Options:	
	7020023		Standard	
	70003463		RME Resistant (Note: Use with European Bio-Diesel Fuels)	
	70001423	1	Bracket, Fuel Filter	
412	70000916	1	Pump Fuel Supply	
	70001435		Repair Kit - Pump	
	70000917	1	O-Seal Between Fuel Pump & Engine Block (Not Shown)	
	70000918	1	Seal Between Fuel Pump & Hand Pump (Not Shown)	
	70000919		Pump, Hand	
413	7027795	1	Module, EMR2	
	7027796	1	Cable, Interconnection (Not Shown)	
	70004059	1	Plug, Analyzer (Not Shown)	
	70004060	1	Plug, Connector (Not Shown)	
	70001872	1	Harness, Engine (Not Shown)	
414	70004102	1	V-Belt	
415	70004056	1	Alternator	

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FIGURE 2-9. DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	70001868	1	Regulator, Voltage (Not Shown)	
	70001866	1	Gasket Set for Regulator	
	70004103	1	Cable, Alternator Interconnection (Not Shown)	
416	70004057	1	Starter	
	70004058	1	Relay, Starter	
	70004062	1	Cable, Starter Interconnection (Not Shown)	
417	7024565	1	Tacho-Generator	
	70003932	1	Spacer, Sleeve	
418	7027791	1	Sensor, Temperature	
419	7027790	1	Sensor, Oil Pressure	
420	7027792	1	Actuator, Throttle	
421		1	Muffler Options: Standard Non-Spark Arresting Muffler Clamp Optional Spark Arresting Muffler (Note: Discard exhaust pipe that comes with muffler and use item #267) Clamp Optional Catalytic Muffler (Note: Not Available on Arctic Machines) (Note: Discard exhaust pipe that comes with muffler and use item #267) Clamp	
	7020455			
	70001844			
	3220110			
	1320176	1		
	3220112			
	1320176	1		

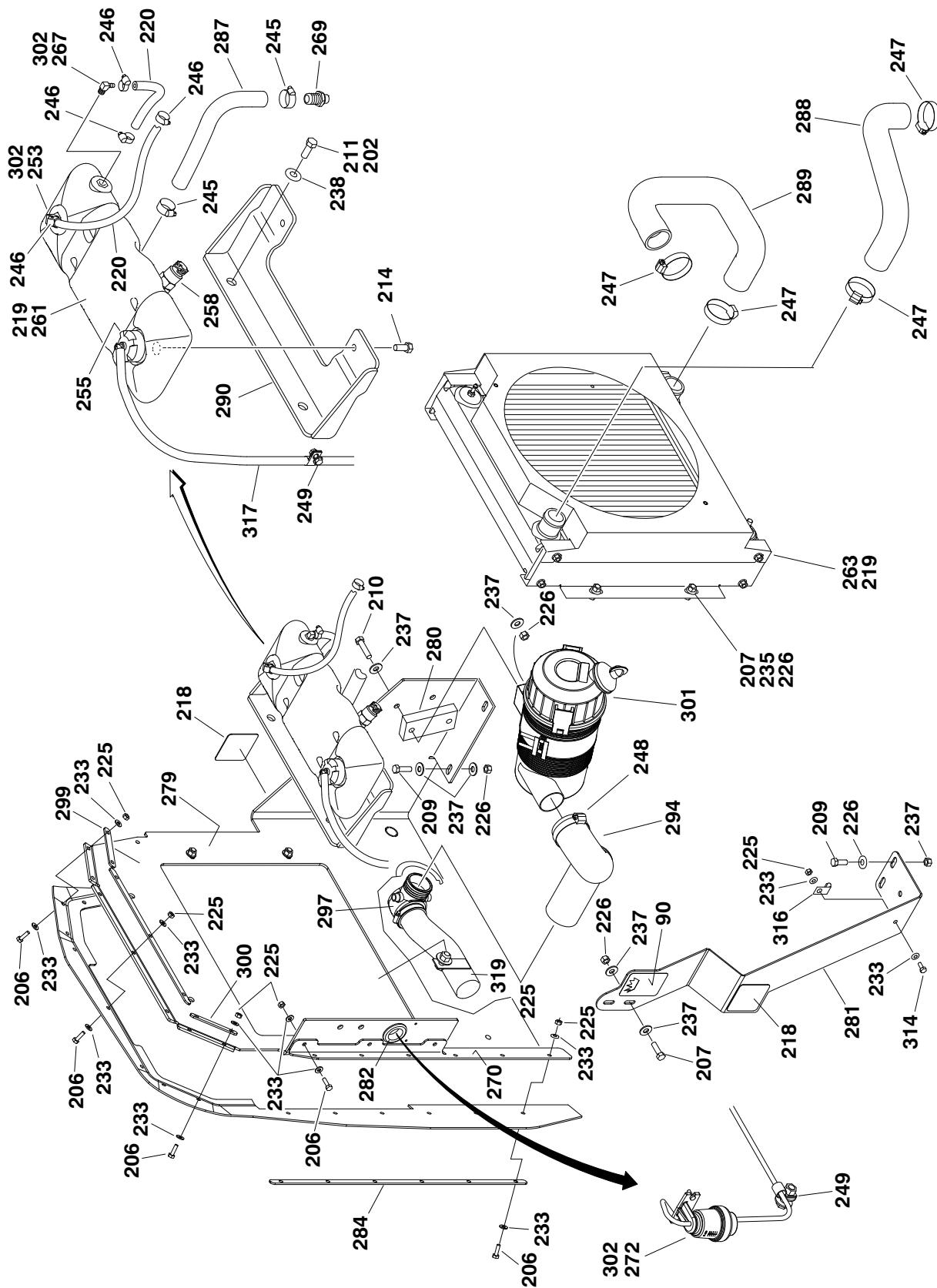
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FIGURE 2-9. DEUTZ D2011 ENGINE INSTALLATION (ROMANIAN BUILT MACHINES)

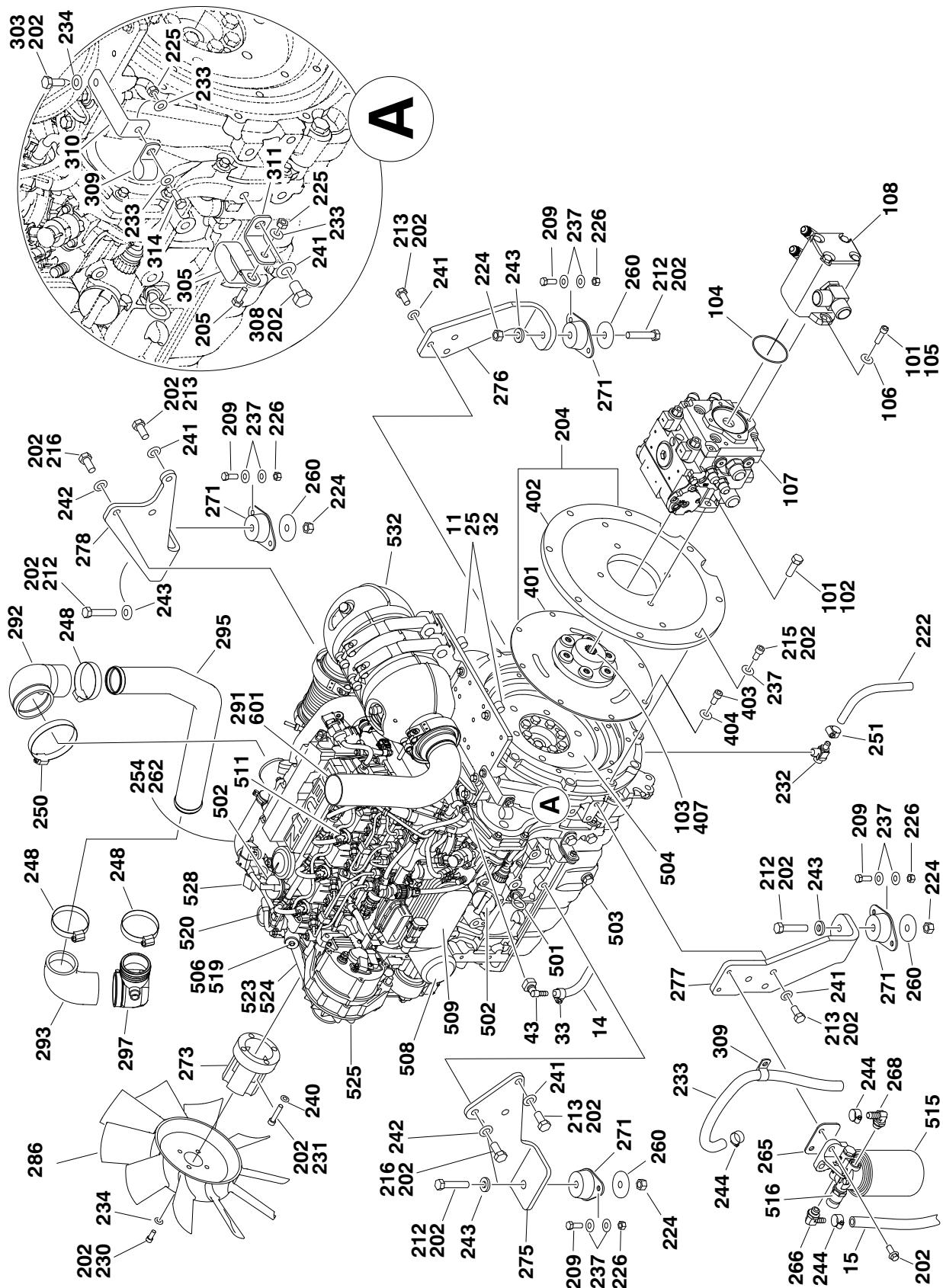
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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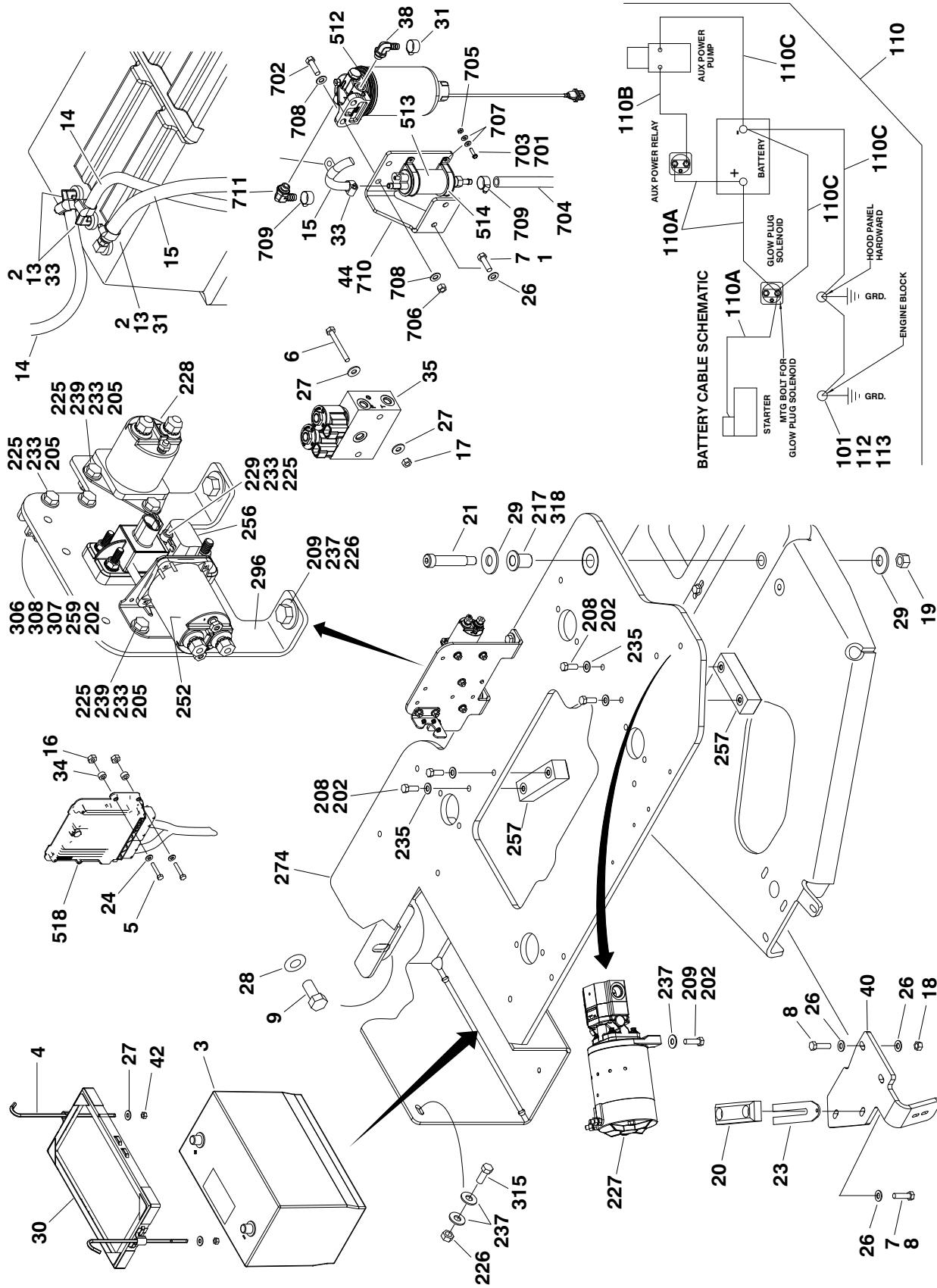
FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)



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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref.	DEUTZ TD2.9L4 ENGINE INSTALLATIONS	
	1001144513	Ref.	Without Arctic Package	E
	1001144516	Ref.	With Arctic Package	E
1	0100011	A/R	Compound, Locking	
2	0100020	A/R	Sealant, Pipe	
3	0400075	1	Battery	
4	0630552	2	Bolt	
5	0641412	4	Bolt 1/4in-20NC x 1-1/2in	
6	0641418	2	Bolt 1/4in-20NC x 2-1/4in	
7	0641608	3	Screw 3/8in-16NC x 1in	
8	0641611	3	Bolt 3/8in-16NC x 1-3/8in	
9	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
10	Not Used			
11	0760807	2	Bolt M8 x 14mm	
12	2180832	1	Fitting, Straight Barbed	
13	2220313	2	Fitting, Elbow Barbed	
14	2720340	24ft/7.2m	Hose	
15	2720615	5.5ft/1.7m	Hose	
16	3300454	4	Nut 1/4in-20NC	
17	3311405	2	Locknut 1/4in-20NC	
18	3311605	4	Locknut 3/8-16NC	
19	3312005	1	Locknut 5/8in-11NC	
20	3340399	1	Pad, Wear	
21	3900254	1	Screw 3/4in x 4in	
22	Not Used			
23	4070497	AR	Shim	
24	4711400	4	Flatwasher 1/4in Thin	
25	4711500	2	Flatwasher 5/16in Thin	
26	4711600	8	Flatwasher 3/8inThin	
27	4751400	6	Flatwasher 1/4in Regular	
28	4752000	1	Flatwasher 5/8in Regular	
29	4752200	2	Flatwasher 3/4in Regular	
30	7138830	1	Hold-Down	
31	8405006	2	Clamp	
32	8406112	2	Clip	
33	8410013	5	Clamp	
34	1001110425	4	Spacer	
35	1001139079	1	Valve Assembly	
	7012974	2	Cartridge without Coil	
	7010543	2	Seal Kit - 7012974 Cartridge	
	70002386	2	Coil	
36	1701505	1	Decal - Diesel Fuel (Not Shown - Located on Hood)	
37	Not Used			
38	1001142501	1	Fitting, Elbow Barbed	
39	Not Used			

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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
40	1001145156	1	Plate, Latch	
41	1001138491	1	Harness, Fuel (Not Shown - See ELECTRICAL SECTION for Breakdown)	
42	3311401	4	Nut 1/4in-20NC	
43	10011455823	1	Fitting	
44	1001162335	1	Bracket Assembly Less Filter/Pump (See Items 701-711 for Breakdown)	
45 to 71	Not Used	Ref.	Note: Arctic Package Items 72 - 82 (Used on Arctic Machines Only) Not Shown.	
72	1060625	1	Cable, Immersion Heater	
73	1320223	3	Clamp, Muffler	
74	1702941	1	Decal - Battery Heater	
75	1702942	1	Decal - Engine Block Heater	
76	1702943	1	Decal - Hydraulic Tank Heater	
77	1702944	1	Decal - Heater Cord	
78	2580050	1	Heater, Hydraulic Tank	
79	3980007	1	Seat, Battery	
80	Not Used			
81	1060626	1	Plug, 3 Way	
82	2580024	1	Heater, Battery	
88 to 89	Not Used			
90		1	Decal - Warning Explosion/Fire Options: ANSI Spec CSA Spec	
	1001144512	Ref.	ENGINE AND PUMP ASSEMBLIES	
	1001144515	Ref.	Without Arctic Package	C
		Ref.	With Arctic Package	C
101	0100011	A/R	Compound, Locking	
102	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
103	3020037	A/R	Grease, Pump Coupling	
104	3790152	1	O-Ring	
105	3931620	2	Bolt 3/8in-16NC x 1-1/4in	
106	4891600	2	Flatwasher 3/8in Hardened	
107	1001141448	1	Piston Pump Assembly with Fittings (See PISTON PUMP ASSEMBLY for Breakdown)	
108	1001141449	1	Gear Pump Assembly with Fittings (See GEAR PUMP ASSEMBLY for Breakdown)	
109	Not Used			
110	1001146880	1	Battery Cable Kit	
110A	7027076	1	Cable (Red) (Battery + to Aux Relay/Power Module/Starter)	
	See Note	1	Boot, Red (Battery) (Note: Not Available for Purchase)	
110B	7027057	1	Cable (Red) (Aux Relay to Aux Pump)	
	See Note	1	Boot, Red (Battery) (Note: Not Available for Purchase)	
110C	7027058	1	Cable, Battery (Black) (Battery – to Relay/Aux Pump/Engine/Tray Pivot Ground)	
111	Not Used			
112	4812100	1	Flatwasher M12	

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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
113	0761210	1	Bolt M12 x 20mm	
		Ref.	ENGINE ASSEMBLIES	
	1001144511	Ref.	Without Arctic Package	H
	1001144514	Ref.	With Arctic Package	H
201	Not Used			
202	0100011	A/R	Compound, Locking	
203	Not Used			
204	0256847	1	Pump Coupling Kit (See Items 401-407 for Breakdown)	
205	0641406	9	Bolt 1/4in-20NC x 3/4in	
206	0641407	16	Bolt 1/4in-20NC x 7/8in	
207	0641607	6	Bolt 3/8in-16NC x 7/8in	
208	0641608	4	Bolt 3/8in-16NC x 1in	
209	0641610	16	Bolt 3/8in-16NC x 1-1/4in	
210	0641613	2	Bolt 3/8in-16NC x 1-5/8in	
211	0641707	2	Bolt 7/16in-14NC x 7/8in	
212	0681822	4	Bolt 1/2in-13NC x 2-3/4in Grade 8	
213	0711214	8	Bolt M12 x 30mm Grade 10.9	
214	0741606	2	Screw, Flathead 3/8in-16NC x 3/4in	
215	0771012	8	Bolt M10 x 25mm Grade 10.9	
216	0771414	4	Bolt M14 x 30mm Grade 10.9	
217	0962172	2	Bushing, Flanged	
218	1703162	2	Decal - Caution Fan	
219		3.6gal/ 13.6L	Anti-Freeze Options:	
	2300004		Without Arctic Package	
	2300041		With Arctic Package	
220	2720015	27in/69cm	Hose	
221	Not Used			
222	2720340	1ft/31cm	Hose	
223	1001154405	18in/46cm	Hose	
224	3271801	4	Nut 1/2in-13NC Grade 8	
225	3311405	28	Locknut 1/4in-20NC	
226	3311605	24	Locknut 3/8in-16NC	
227	3600423	1	Auxiliary Pump Assembly (See AUXILIARY PUMP ASSEMBLY for Breakdown):	
228	3740067	1	Relay	
229	3931432	1	Capscrew 1/4in-20NC x 2in	
230	3931512	4	Capscrew 5/16in-18NC x 3/4in	
231	4031914	4	Capscrew M8 x 50mm	
232	4640751	1	Valve, Oil Drain	
233	4711400	51	Flatwasher 1/4in Thin	
234	4711500	5	Flatwasher 5/16in Thin	
235	4711600	12	Flatwasher 3/8in Thin	
236	4751400	4	Flatwasher 1/4in Regular	
237	4751600	50	Flatwasher 3/8in Regular	
238	4751700	3	Flatwasher 7/16in Regular	
239	4791400	4	Starwasher 1/4in	
240	4811900	4	Flatwasher M8	

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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
241	4812100	9	Flatwasher M12	
242	4812200	4	Flatwasher M14	
243	4891800	4	Flatwasher 1/2in Hardened	
244	8405006	2	Clamp	
245	8405007	2	Clamp	
246	8405009	4	Clamp	
247	8405104	4	Clamp	
248	8405202	4	Clamp	
249	8406109	4	Clip	
250	8410011	1	Clamp	
251	8410013	1	Clamp	
252	1001117308	1	Relay	
253	1001134488	1	Fitting, Elbow Barbed	
254		2.4gal/9L	Oil, Motor Options: Without Arctic Package With Arctic Package	
255	1001136834	1	Cap, Tank	
256	1001138228	1	Relay, Power Module	
257	1001138238	2	Pad, Wear	
258	1001138827	1	Sensor, Coolant Level	
259	1001139240	1	Bracket	
260	1001139409	4	Washer, Special	
261	1001140535	1	Tank, Surge	
262	1001140609	1	Engine, Deutz TD2.9L4	
263	1001155339	1	Radiator	
264	1001141304	1	Harness, Glow Plug (Not Shown - See ELECTRICAL SECTION for Breakdown)	
265	1001141546	1	Shim	
266	1001152489	1	Fitting, Elbow Barbed	
267	1001140564	1	Fitting, Elbow Barbed	
268	1001142501	1	Fitting, Elbow Barbed	
269	1001143797	1	Fitting, Straight Barbed	
270	1001144089	1	Grommet	
271	1001144112	4	Mount, Motor	
272	1001144115	1	Indicator, Service	
273	1001144116	1	Adapter	
274	1001144533	1	Tray	
275	1001144534	1	Support, Engine	
276	1001144535	1	Support, Engine	
277	1001144536	1	Support, Engine	
278	1001144537	1	Support, Engine	
279	1001155373	1	Support, Radiator	
280	1001144568	1	Shim	
281	1001144569	1	Bracket	
282	1001144571	1	Bracket	
283	1001144572	1	Plate	
284	1001144573	1	Plate	
285	1001155553	1	Baffle	
286	1001144664	1	Fan	
287	1001144687	1	Hose	

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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
288	1001155554	1	Hose, Radiator (Upper)	
289	1001155555	1	Hose, Radiator (Lower)	
290	1001155367	1	Bracket	
291	1001145001	1	Pipe, Exhaust	
292	1001145006	1	Elbow	
293	1001145007	1	Elbow	
294	1001155370	1	Hose	
295	1001155371	1	Pipe, Intake	
296	1001145016	1	Plate	
297	1001146043	2	Elbow	
298	1001146268	1	Engine Harness (Not Shown - See ELECTRICAL SECTION for Breakdown)	
299	1001146810	1	Plate	
300	1001155463	1	Plate	
301	1001144113	1	Air Cleaner Assembly Including Filter Element Element, Filter (Not Shown)	
	70003937	1		
302	0100020	A/R	Sealant	
303	0760810	1	Bolt M8 x 20mm	
304	0761210	1	Bolt M12 x 20mm	
305	1321716	1	Clamp	
306	3310401	3	Nut 1/4in-20NC	
307	3910408	3	Screw #4-40 x 1/2in	
308	4710400	6	Flatwasher #4 Thin	
309	8406102	1	Clip	
310	1001138717	1	Bracket	
311	1001148641	1	Bracket	
312	1001143907	1	Cable, Alternator Power (Not Shown - See ELECTRICAL SECTION for Breakdown)	
313	2420099	AR	Tie-Strap (Not Shown)	
314	0641405	2	Bolt 1/4in-20NC x 5/8in	
315	0641609	2	Bolt 3/8in-16NC x 1-1/8in	
316	1320223	1	Clip	
317	1001138248	4ft/1.2m	Hose	
318	0100062	AR	Compound, Locking	
319	1001160742	1	Tube	
320	0641709	1	Bolt 7/16in-14NC x 1-1/8in	
321	3311705	1	Locknut 7/16in-14NC	
322 to 350	Not Used	Ref.	Note: Arctic Package Item 351 (Used on Arctic Machines Only) Not Shown.	
351	1001140312	1	Heater, Engine Block	
	0256847	Ref.	KIT PUMP COUPLING AND MOUNTING PLATE	2
401	1660234	1	Coupling	
402	0080163	1	Plate, Pump Adapter	
403	0700810	6	Bolt M8 x 20mm	
404	4831900	6	Lockwasher M8	
405 to 406	Not Used			
407	3020021	A/R	Grease, Pump Coupling	

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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001140609	Ref	ENGINE COMPONENTS	
501	7000427	1	Dipstick (Not Shown - Located On Side Left Front)	
	70024905	1	Seal	
502	7020465	2	Cap, Oil Fill	
503	70025088	1	Plug	
	7020404	1	Seal	
504	7000264	1	Flywheel with Ring Gear	
	7024579	1	Gear, Ring	
505		AR	Gasket & Seal Options (Not Shown):	
	70024906	1	Gasket, Head	
	70025206	1	Gasket, Small Valve Cover	
	70025207	1	Gasket, Large Valve Cover	
	7002508	1	Gasket, Valve Cover to Air Charge Elbow	
	70002718	1	Seal, Rear Main	
	70024907	1	Gasket, Front Cover	
	70024912	1	Gasket, Exhaust Manifold	
	70025164	1	Gasket, Exhaust Manifold to Head	
	70025179	1	Gasket, Pipe/Line/Lead to EGR Module	
	70025180	1	Gasket, Pipe/Line/Lead to EGR Module	
	70004279	1	Gasket Kit	
506	70025091	1	Plug	
	70025082	1	Seal	
	70025176	1	Spring	
	70025076	1	Valve	
507	70025202	1	Pump, Oil Lube (Not Shown - Located Front Left Side)	
	70025135	1	O-Ring	
	70025136	1	Seal	
508	7016331	1	Filter, Oil	
509	70004275	1	Cooler, Oil	
	70024925	1	Gasket	
510	70024924	1	Pump, High Pressure (Not Shown - Located Front Left Side)	
	70025152	1	O-Ring (Between Pump & Spacer)	
	70024488	1	Spacer	
	70025152	1	O-Ring (Between Spacer and Engine Block)	
511	70004281	4	Injector, Fuel	
	70025140	4	Washer, Sealing	
	70025146	4	Clamp (Top of Injector)	
	70025416	4	O-Seal	
	70025154	4	Shoe, Clamping	
	70000345	4	Plug, Glow	
	70025231	1	Harness, Glow Plug (Not Shown)	
512	70025153	1	Filter, Fuel	
	70024513	1	Cable, Sensor	
	70025239	1	Seal	
513	70024486	1	Pump, Fuel	
514	70025144	2	Clamp	

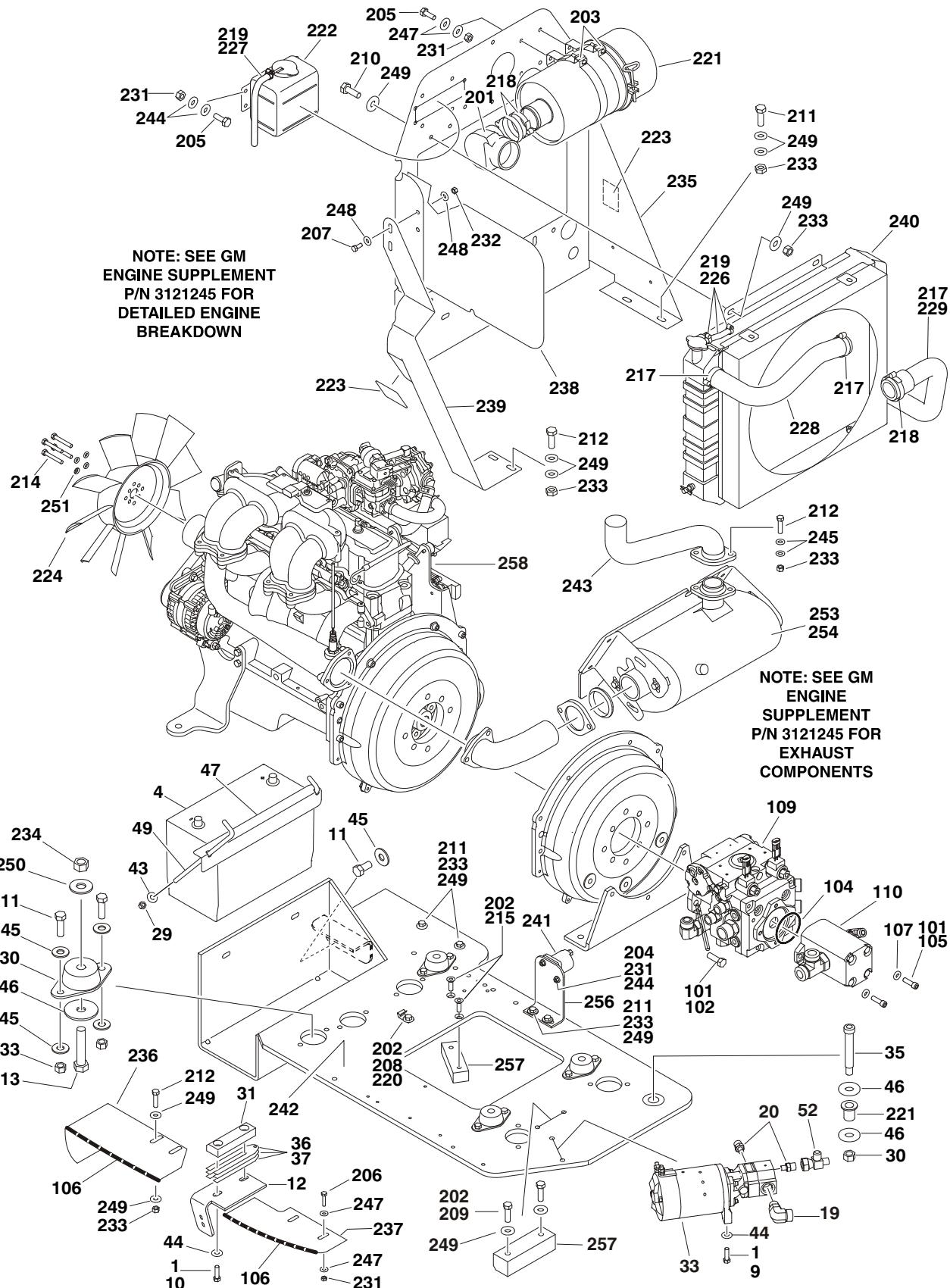
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FIGURE 2-10. DEUTZ TD2.9L4 ENGINE INSTALLATION (USA BUILT MACHINES)

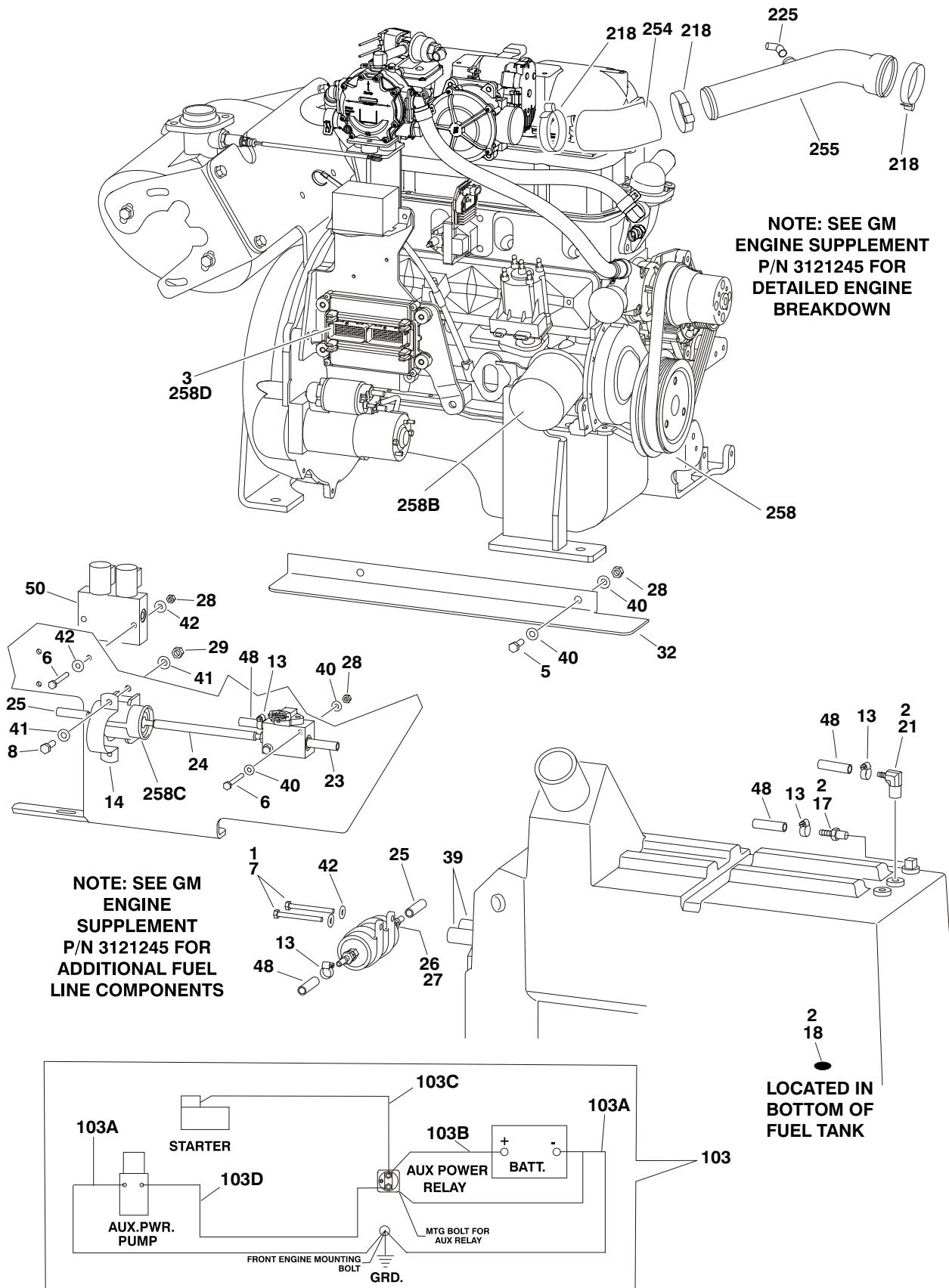
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
515	70025160	1	Filter with Head	
	70025161	1	Filter, Fuel	
516	70024919	1	Sensor, Pressure	
	70024920	1	Seal	
517	70025151	1	Rail, Fuel (Not Shown)	
	70025235	1	Repair Kit	
518	70025210	1	ECU (Engine Control Unit)	
519	70024910	1	Pump, Water	
	70025200	1	Seal	
	70025084	2	Plug	
	7020492	2	Seal	
520	70024473	1	Thermostat	
	70025143	1	O-Seal	
	70025142	1	Cover, Thermostat	
521	70025177	1	Pipe	
	70025179	2	Gasket	
522	70004283	1	Module, EGR (Not Shown - Located on Left Side)	
523	70025477	1	Tensioner, Belt	
524	70004277	1	Belt, Drive	
525	70024914	1	Alternator	
	70025149	1	Regulator, Voltage	
526	70024915	1	Starter (Not Shown - Located on Left Side)	
527	70004284	1	Harness, Engine (Not Shown)	
528	70024921	1	Sensor, Pressure	
	70025120	1	Seal	
529	70024503	2	Sensor, Speed (Not Shown - Located Left Side Front & Flywheel Housing)	
	70024917	2	Seal	
530	70024918	1	Sender, Temperature (Not Shown - Located Top Front)	
531	70024504	1	Sensor, Pressure (Not Shown - Located Left Side Front)	
	70024920	1	Seal	
532	See Note	1	Muffler (Note: Not Available at Time of Printing)	
	70004286	1	Outlet, Muffler	
	1001146715	Ref.	SPARK ARRESTER INSTALLATION (OPTIONAL)	A
601	1001146714	1	Arrester, Spark	
	1001162335	Ref	BRACKET ASSEMBLY (LESS FUEL PUMP & FILTER)	B
701	0100011	AR	Locking, Compound	
702	0641610	2	Bolt 3/8in-16NC x 1-1/4in	
703	0721006	4	Bolt #10-24NC x 3/4in	
704	1001154405	1.5ft/0.4m	Hose	
705	3311001	4	Nut #10-20NC	
706	3311605	2	Locknut 3/8in-16NC	
707	4711000	8	Flatwasher #10 Thin	
708	4711600	4	Flatwasher 3/8in Thin	
709	8405006	2	Clamp	
710	1001141870	1	Plate, Fuel Pump Mount	
711	1001142501	1	Fitting, Elbow Barbed	

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FIGURE 2-11.GM ENGINE INSTALLATION



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FIGURE 2-11. GM ENGINE INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	GM ENGINE INSTALLATION	
	1001141481	Ref	Machines without Arctic Package	C
	1001141509	Ref	Machines with Arctic Package	C
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant, Pipe	
3	0100048	AR	Grease, Dielectric	
4	0400075	1	Battery (Wet)	
5	0641407	2	Bolt 1/4in-20NC x 7/8in	
6	0641418	4	Bolt 1/4in-20NC x 2-1/4in	
7	0641420	2	Bolt 1/4in-20NC x 2-1/2in	
8	0641508	2	Bolt 5/16in-18NC x 1in	
9	0641610	2	Bolt 3/8in-16NC x 1-1/4in	
10	0641612	2	Bolt 3/8in-16NC x 1-1/2in	
11	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
12	0902443	1	Bracket, Hood Latch Mount	
13	1320022	4	Clamp, Fuel Line	
14	1320323	1	Clamp	
15	1701542	1	Decal, Gas (Not Shown)	
16	1701543	1	Decal, LPG (Not Shown)	
17	2180348	1	Fitting, Barbed	
18	2200222	1	Plug, Pipe	
19		1	Fitting, Elbow Options: Machines without Arctic Package Machines with Arctic Package	
20	2220567		Fitting, Straight Options: Machines without Arctic Package Machines with Arctic Package	
21	2131210	2		
22	2220603		Fitting, Elbow	
	2110604		Coolant, Antifreeze Options (Not Shown): Machines without Arctic Package Machines with Arctic Package	
23	2221176	1		
24	2300004		Hose (78in/2m Length)	
25	2300041		Hose (6in/15cm Length)	
26	2720565	1	Hose (48in/122cm Length)	
27	2720566	1	Locknut M4 x 0.7	
28	2720567	1	Locknut M5 x 0.8	
29	3290405	1	Locknut 1/4in-20NC	
30	3290505	1	Locknut 5/16in-18NC	
31	3311405	6	Locknut 5/8in-11NC	
32	3311505	4	Pad, Wear	
33	3340399	1	Panel, Shield	
34	3380694	1	Auxiliary Pump Assembly (See PISTON PUMP ASSEMBLY for Breakdown):	
35	3600423	1	O-Ring (Not Shown - Located in Console Box)	
36	3900254	1	Screw, Shoulder	
37	4070497	2	Shim (11 Gauge)	
38	4070498	2	Shim (16 Gauge)	
	4360336	1	Switch, Toggle (Not Shown - Located in Console Box)	

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FIGURE 2-11. GM ENGINE INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
39	4568114	2	Tube, Spacer	
40	4711400	8	Flatwasher 1/4in Thin	
41	4711500	4	Flatwasher 5/16in Thin	
42	4751400	6	Flatwasher 1/4in Regular	
43	4751500	2	Flatwasher 5/16in Regular	
44	4751600	4	Flatwasher 3/8in Regular	
45	4752000	1	Flatwasher 5/8in Regular	
46	4752200	2	Flatwasher 3/4in Regular	
47	91401281	1	Angle, Battery Hold Down	
48	1001091587	8.5ft/2.6m	Hose	
49	1001093382	2	J-Bolt	
50	1001139079	1	Valve Assembly	
	7012974	2	Cartridge without Coil	
	7010543	2	Seal Kit - 7012974 Cartridge	
	70002386	2	Coil	
51	Not Used			
52	2220635	1	Fitting, Tee	
53 to 59	Not Used	Ref	Note: Items 60-70 are Not Shown - Used on Arctic Package Machines Only	
60	1060625	1	Cable, Immersion Heater	
61	1060626	1	Cord, 3-Way Extension	
62	1320223	3	J-Clip	
	3311605	2	Locknut 3/8in-16NC	
	0641608	2	Bolt 3/8in-16NC x 1in	
	4711600	6	Flatwasher 3/8in Thin	
63	1702941	1	Decal - Battery Heater	
64	1702942	1	Decal - Engine Block Heater	
65	1702943	1	Decal - Hydraulic Tank Heater	
66	1702944	1	Decal - Heater Cord	
67	2580024	1	Heater, Battery	
68	2580050	1	Heater, Hydraulic Tank	
69	2580063	1	Heater, Engine Block	
70	3980007	1	Seat, Battery	
	1001141482	Ref	GM ENGINE AND PUMP SUB-ASSEMBLY	
	1001141506	Ref	Machines without Arctic Package	B
		Ref	Machines with Arctic Package	B
101	0100011	AR	Compound, Locking	
102	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
103	2902510	1	Battery Cable Kit	
103A	7016840	1	Cable (Battery - to Ground)	D
103B	7016839	1	Cable (Battery + to Auxilliary Relay)	
103C	7027014	1	Cable (Auxilliary Relay to Starter)	
103D	7016841	1	Cable (Auxilliary Relay to Auxilliary Pump)	
104	3790152	1	O-Ring	
105	3931620	2	Capscrew, Socket Head 3/8in-16NC x 1-1/4in	
106	3960438	2.3ft/.7m	Seal, Self Gripping	
107	4891600	2	Flatwasher 3/8in Hardened	

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FIGURE 2-11. GM ENGINE INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
108	1001115930 1001115931	4.5 Qt	Oil, Motor Options (Not Shown): Machines without Arctic Package Machines with Arctic Package	
109	1001141448	1	Piston Pump Assembly with Fittings (See PISTON PUMP ASSEMBLY for Breakdown)	
110	1001141449	1	Gear Pump Assembly with Fittings (See GEAR PUMP ASSEMBLY for Breakdown)	
	1001141897	Ref	GM ENGINE ASSEMBLY	B
201	0080201		Fitting, Elbow	
202	0100011	AR	Compound, Locking	
203	0340041	2	Band, Mounting	
204	0641405	2	Bolt 1/4in-20NC x 5/8in	
205	0641406	8	Bolt 1/4in-20NC x 3/4in	
206	0641410	2	Bolt 1/4in-20NC x 1-1/4in	
207	0641506	2	Bolt 5/16in-18NC x 3/4in	
208	0641604	1	Bolt 3/8in-16NC x 1/2in	
209	0641608	2	Bolt 3/8in-16NC x 1in	
210	0641609	4	Bolt 3/8in-16NC x 1-1/8in	
211	0641610	12	Bolt 3/8in-16NC x 1-1/4in	
212	0641612	4	Bolt 3/8in-16NC x 1-1/2in	
213	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
214	0700810	4	Bolt M8 x 20mm	
215	0741608	2	Screw, Flat Head 3/8in-16NC x 1in	
216	0962172	1	Bushing, Flanged	
217	1320012	3	Clamp	
218	1320016	5	Clamp	
219	1320022	3	Clamp	
220	1320223	1	J-Clip	
221	1340060 7012664	1	Air Cleaner Assembly Element, Air Cleaner	
222	1580011	1	Container, Coolant Overflow	
223	1703162	2	Decal - Caution Fan	
224	2060025	1	Fan	
225	2180877	1	Fitting, Elbow	
226	2720058	4in/10cm	Hose	
227	2720271	18in/47cm	Hose	
228	2720563	1	Hose, Radiator (Top)	
229	2720564	1	Hose, Radiator (Bottom)	
230	3200406	4	Mount, Motor	
231	3311405	12	Locknut 1/4in-20NC	
232	3311505	2	Locknut 5/16in-18NC	
233	3311605	20	Locknut 3/8in-16NC	
234	3311805	4	Locknut 1/2in-13NC	
235	3570571	1	Plate, Radiator Mounting	
236	3571008	1	Plate, Air	
237	3571009	1	Plate, Baffle	
238	3571019	1	Plate, Air Panel	
239	3573667	1	Plate, Radiator Support	

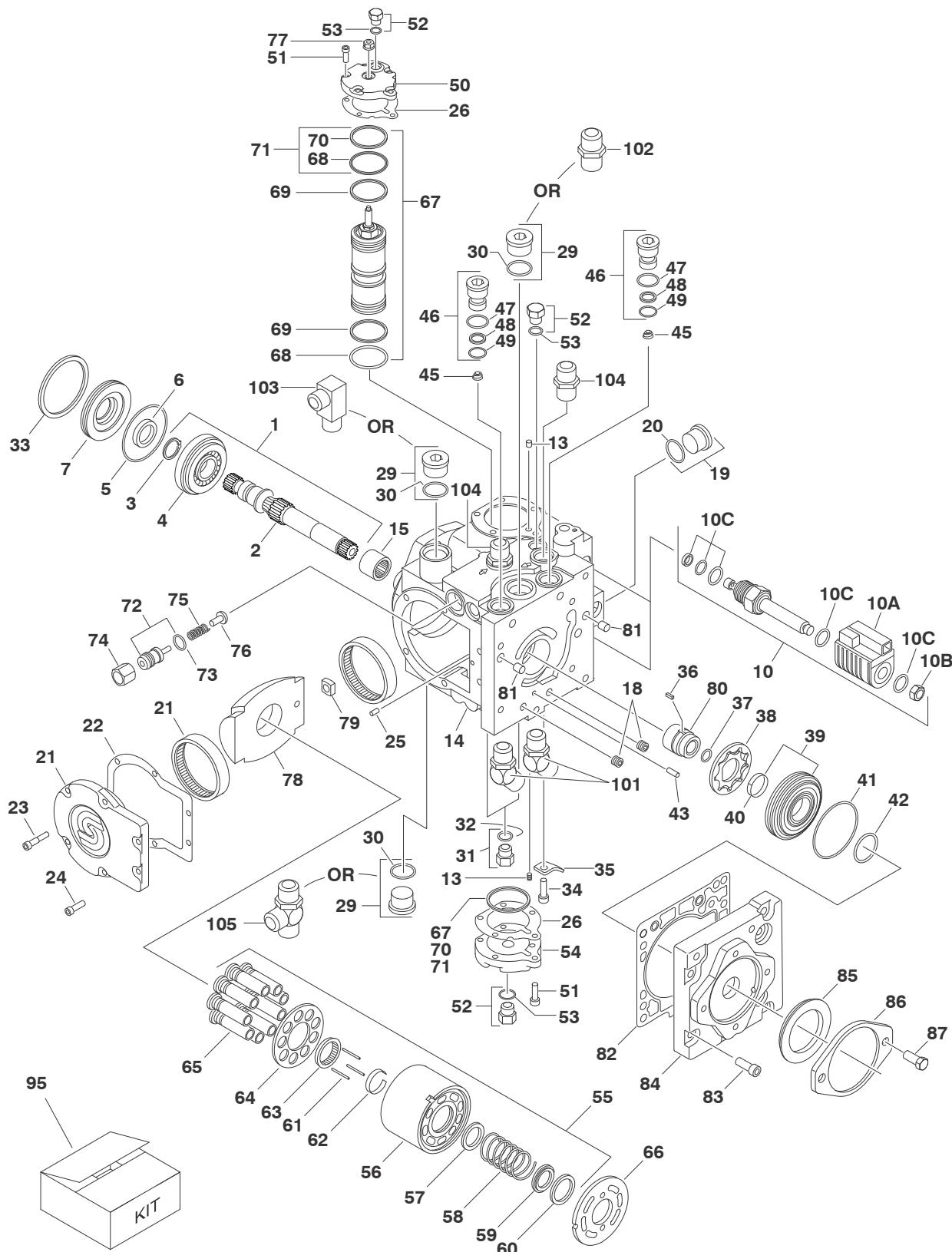
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FIGURE 2-11. GM ENGINE INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
240	3620040	1	Radiator	
	Use 8180311	1	Cap, Radiator (was p/n 7019656)	
241	3740067	1	Relay	
242	4340745	1	Tray, Engine	
243	4569345	1	Pipe, Exhaust	
244	4711400	12	Flatwasher 1/4in Thin	
245	4711600	20	Flatwasher 3/8in Thin	
246	4740274	4	Flatwasher, Snubbing	
247	4751400	12	Flatwasher 1/4in Regular	
248	4751500	4	Flatwasher 5/16in Regular	
249	4751600	22	Flatwasher 3/8in Regular	
250	4751800	4	Flatwasher 1/2in Regular	
251	4831900	4	Lockwasher M8	
252	4920385	10ft/3m	Wire, Safety	
253	1001091794	1	Insulation, Muffler	
254	1001116544	1	Duct	
255	1001116545	1	Duct	
256	1001121115	1	Plate, Relay Mount	
257	1001138238	2	Pad, Wear	
258	1001141139	1	Engine, GM 3.0L (See GM Engine Supplement P/N 3121245 for Breakdown of Additional Components)	
258A	70000164	4	Plug, Spark (Not Shown)	
258B	7027965	1	Filter, Oil	
258C	7027972	1	Filter, Fuel	
258D	70003907	1	Module, Control (ECU)	

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FIGURE 2-12.PISTON PUMP ASSEMBLY



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FIGURE 2-12. PISTON PUMP ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	PISTON PUMP USAGE CHART:	
	3600385	Ref	Caterpillar Engine Machines (Pump Without Fittings)	A
	1001141448	Ref	Deutz & GM Engine Machines (Pump With Fittings)	A
1	7021240	1	Shaft Assembly (Includes Items 2-4)	
2	7021237	1	Shaft	
3	7021238	1	Ring, Retaining	
4	7021239	1	Bearing, Roller	
5	Use 7021280	1	O-Ring	
6	7021242	1	Seal, Lip	
7	7021243	1	Carrier, Seal Shaft	
8 to 9	Not Used			
10	7024855	2	Solenoid Assembly	
10A	7024856	2	Coil (1 Per Assy)	
10B	7024857	2	Nut (1 Per Assy)	
10C	7024858	2	Seal Kit - 7024855 Cartridge (1 Per Assy)	
11 to 12	Not Used			
13	7022377	2	Orifice	
14	7022378	1	Housing Assembly (Includes Items 15-20)	
15	7021249	1	Bearing, Needle	
16 to 17	Not Used			
18	7001485	2	Plug	
19	7022380	1	Plug (Includes Item 20)	
20	7022381	1	O-Ring	
21	7021248	1	Side Cover Assembly (Includes Item 22)	
22	Use 7021280	1	Gasket	
23	7021255	4	Screw	
24	7021251	2	Screw	
25	7021250	1	Pin	
26	Use 7021280	2	Gasket	
27 to 28	Not Used			
29	7007419	2	Plug Assembly	
30	Use 7021280	2	O-Ring	
31	7007470	2	Plug Assembly	
32	Use 7021280	2	O-Ring	
33	7021257	1	Ring, Retaining	
34	7021251	1	Screw	
35	7022342	1	Bracket, Lifting	
36	7022342	1	Key	
37	7022341	1	Ring, Retaining	
38	7021258	1	Gerotor	
39	7021260	1	Gerotor Cover Assembly	
40	7021259	1	Bearing, Journal	
41	Not Used			
42	Use 7021280	1	O-Ring	
43	See Note	1	Pin (Note: Not Available for Purchase)	
44	Not Used			
45	7024800	1	Spring	
46	7021265	2	Bypass Valve Assembly (Includes Items 47-49)	

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FIGURE 2-12. PISTON PUMP ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
47	Use 7021280	2	O-Ring	
48	Use 7021280	2	Ring, Back Up	
49	Use 7021280	2	O-Ring	
50	7022382	1	Cover, Servo	
51	7021255	10	Screw	
52	7007470	1	Plug Assembly	
53	Use 7021280	1	O-Ring	
54	7021268	1	Cover, Servo	
55	7021269	1	Cylinder Block Assembly (Includes Items 56-65)	
56	7021270	1	Cylinder Block	
57	7021271	1	Washer	
58	7021272	1	Spring	
59	7021273	1	Washer	
60	7021274	1	Ring, Retaining	
61	7021275	3	Pin, Slipper Hold Down	
62	7021276	1	Retainer, Hold Down Pin	
63	7021277	1	Guide, Slipper Retainer	
64	7021278	1	Retainer, Slipper	
65	7021279	9	Piston Assembly	
66	7021281	1	Plate, Valve	
67	7022385	1	Servo Piston Assembly (Includes Items 68-70)	
68	Use 7021280	2	O-Ring	
69	Use 7021280	2	Ring, Bearing	
70	Use 7021280	2	Ring, Piston	
71	7007412	1	Servo Piston Ring Kit (Includes Items 68 & 70 Only)	
72	7022346	1	Plug Assembly	
73	Use 7021280	1	O-Ring	
74	7021290	1	Nut	
75	7022347	1	Spring	
76	7024804	1	Poppet	
77	Use 7021280	1	Nut, Seal	
78	7022386	1	Swashplate	
79	7022387	1	Slider, Block	
80	7021294	1	Coupling	
81	7001481	2	Pin	
82	70002257	1	Gasket	
83	7021296	7	Screw	
84	7021297	1	Cover, Charge Pump	
85	7021298	1	Seal	
86	7021299	1	Plate, Cover	
87	7007289	2	Screw	
88	7007470	1	Plug (Not Shown)	
89	7021256	1	O-Ring (Not Shown)	
90 to 94	Not Used			
95	7021280		Seal Kit (Includes Items 5-6,22,26,30,32,42,47-49,53,68-70,73,77,82 & 89)	

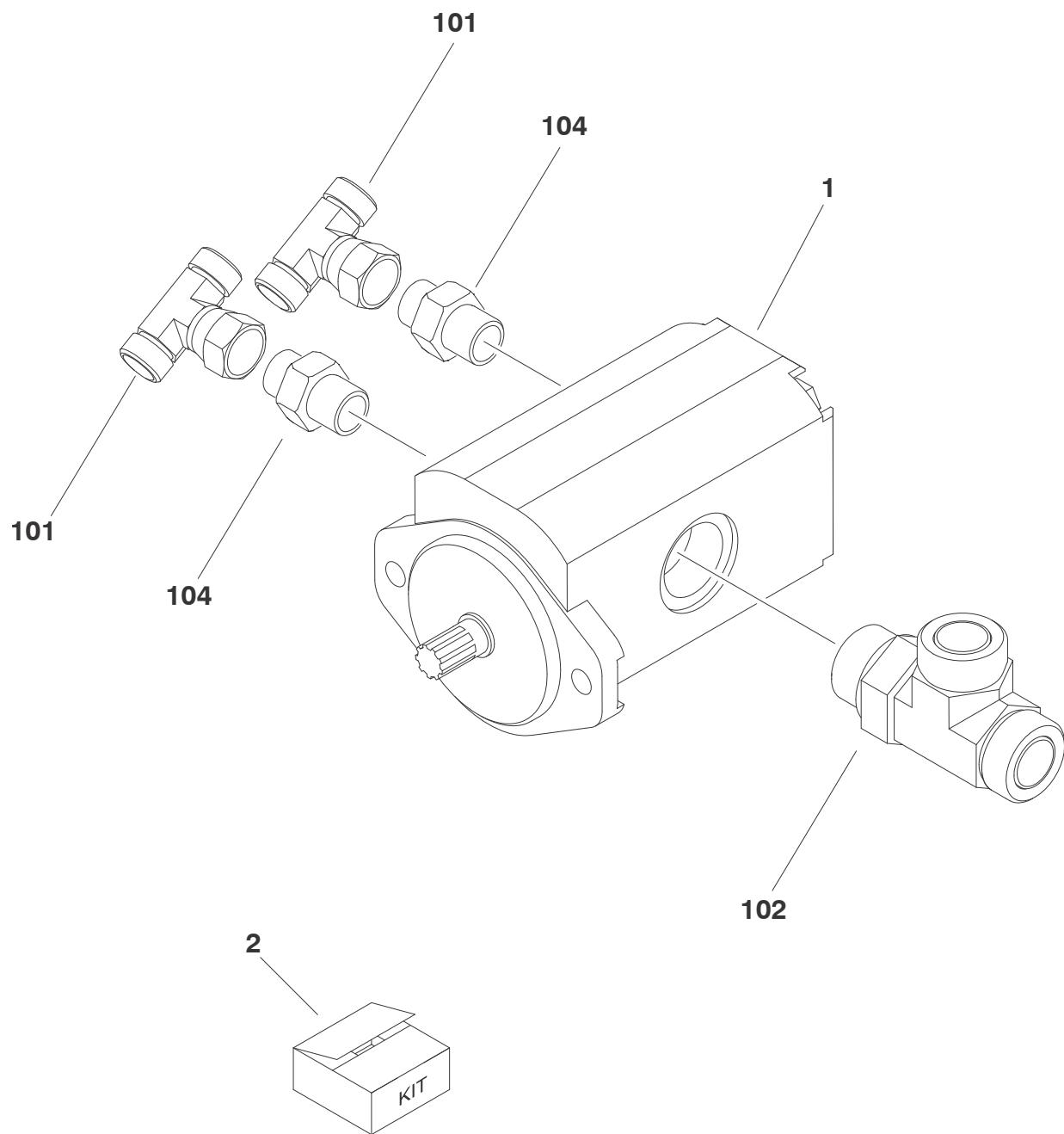
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FIGURE 2-12. PISTON PUMP ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	FITTING COMPONENTS	
		Ref	Caterpillar Engine Machines (Not Shown Here - See Engine Installation)	
		Ref	Deutz & GM Engine Machines	
101	2151212	2	Fitting, Elbow	
102	2220376	1	Fitting, Straight	
103	2220578	1	Fitting, Elbow	
104	2220947	2	Fitting, Straight	
105	2221041	1	Fitting, Tee	

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FIGURE 2-13.GEAR PUMP ASSEMBLY



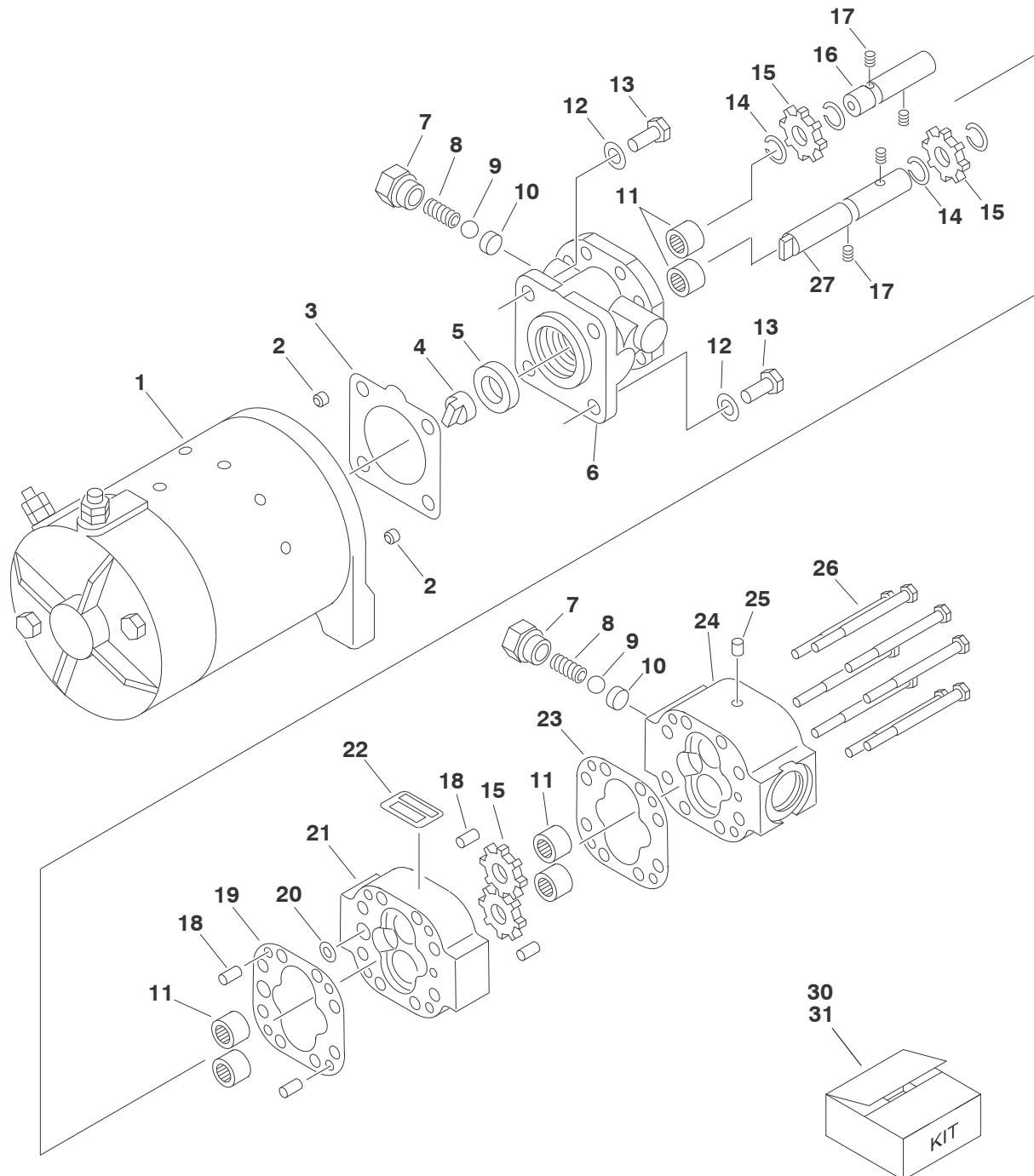
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FIGURE 2-13. GEAR PUMP ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
1	3600318 1001141449	Ref Ref Ref	GEAR PUMP ASSEMBLY Caterpillar Engine Machines (Without Fittings) Deutz & GM Engine Machines	B A
2	7023929	1 Ref Ref Ref	Seal Kit Note: Seal Kit is Only Serviceable Part Available. FITTING COMPONENTS Caterpillar Engine Machines (Not Shown Here - See Engine Installation) Deutz & GM Engine Machines	
101	2220383	2	Fitting, Tee	
102	2221026	1	Fitting, Tee	
103	Not Used			
104	1001141913	2	Valve, Check	

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FIGURE 2-14. AUXILIARY PUMP ASSEMBLY



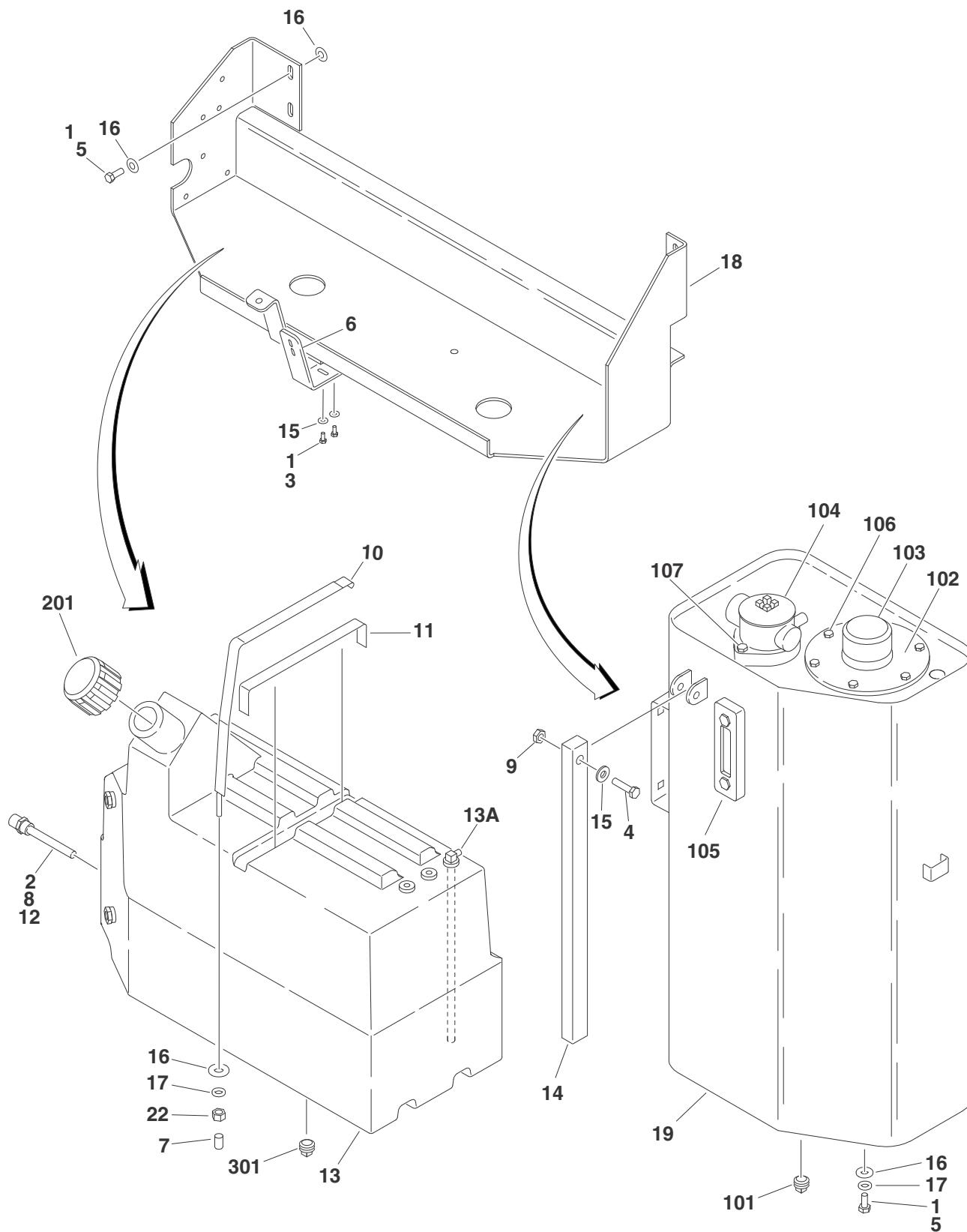
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FIGURE 2-14. AUXILIARY PUMP ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	3600423	Ref	AUXILIARY PUMP ASSEMBLY	A
1	7011067	1	Motor & Adapter	
2	See Note	2	Setscrew (Note: Not Available - Purchase Locally)	
3	7011044	1	Gasket, Mounting	
4	7011016	1	Coupling	
5	70000969	1	Seal, Shaft	
6	Use 70000978	1	Stator	
7	See Note	2	Cap Assembly (Note: Use Item 30 or 31.)	
8	Use 70000978	2	Spring	
9	Use 70000978	2	Ball	
10	Use 70000978	2	Seat	
11	70000976	6	Bearing, Needle	
12	Use 70000978	4	Washer	
13	Use 70000978	4	Screw	
14	70000970	4	Ring, Retaining	
15	70000971	4	Gear	
16	70000972	1	Shaft, Idler	
17	Use 70000978	4	Pin, Drive	
18	Use 70000978	4	Pin, Dowel	
19	70000973	1	Gasket	
20	See Note	1	O-Ring (Note: Use Item 30 or 31.)	
21	Use 70000978	1	Housing, Gear	
22	See Note	1	Label (Note: Not Available for Purchase)	
23	7000974	1	Gasket	
24	Use 70000978	1	Housing, Gear	
25	Use 70000978	1	Plug	
26	Use 70000978	8	Screw	
27	70000975	1	Shaft, Drive	
28 to 29	Not Used			
30	70000977	1	Seal Kit (Includes Items 3, 5, 20 & Qty 2 O-Rings for Item 7)	
31	70000978	1	Replacement Pump Kit (Includes Items 3-21 & 23-27)	

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FIGURE 2-15.TANK INSTALLATIONS



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FIGURE 2-15. TANK INSTALLATIONS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	TANK INSTALLATIONS	
	1001144401	Ref	Caterpillar & Deutz Engine USA Built Machines	E
	1001144403	Ref	Caterpillar & Deutz Engine Romanian Built Machines	D
	1001144402	Ref	GM Engine Machines	E
1	0100011	AR	Compound, Locking	
2	0100079	AR	Sealant	
3	0641405	2	Bolt 1/4in-20NC x 5/8in	
4	0641416	1	Bolt 1/4in-20NC x 2in	
5		AR	Bolt 3/8in-16NC x 1in	
	0641606		Bolt 3/8in-16NC x 3/4in	
	0641608		Bolt 3/8in-16NC x 1in	
6	0902535	1	Bracket, Hood Latch	
7	1120532	1	Cap, Protective	
8	2820035	2ft/.61m	Insulate, Tubing	
9	3311405	1	Locknut 1/4in-20NC	
10	4240145	1	Strap, Tank Mount	
11	4280295	2ft/.61m	Strip, Bumper	
12	4360436	1	Switch, Fuel Level (was p/n 1001144298)	
13		1	Tank, Fuel Options (Includes Standard Non-Locking Cap):	
	4400408		Caterpillar & Deutz Engine Machines	
	1001091560		GM Engine Machines	
13A	7020056	1	Fitting & Pick-up Tube (Supply Line)	
14	4567627	1	Tube, Hood Prop	
15	4751400	4	Flatwasher 1/4in Regular	
16	4751600	10	Flatwasher 3/8in Regular	
17	4761600	4	Lockwasher 3/8in	
18		1	Tray Weldment Options:	
	4846375		USA Built Machines	
	4846665		Romanian Built Machines	
19	Use 1001153619	1	Hydraulic Tank Assembly (See Items 101-109 for Breakdown) (was p/n 1001141821)	
20 to 21	Not Used			
22	3311601	1	Nut 3/8in-16NC	
		Ref	HYDRAULIC TANK ASSEMBLIES	
	1001141821	Ref	Original Equipment	C
	1001153619	Ref	Service Replacement	C
			Note: Original Equipment Tank may have been replaced with Service Replacement Tank p/n 1001153619. Identify p/n stamped on tank before ordering parts.	
101	7024446	1	Plug, Magnetic	
102	7024439	1	Cover	
103	7024444	1	Cap	
	7024445	1	Strainer	
	7024443	1	Neck, Fill	
	7024440	1	Gasket (Cover to Tank)	

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FIGURE 2-15. TANK INSTALLATIONS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
104	70001959 70001960 7023347 7023306	1 1 1 1	Filter, Return Element, Filter Gasket (Filter Flange to Tank) Seal (Filter Cap to Filter Housing)	
105			Gauge, Sight Options: 1001141821 Tank 1001153619 Tank	
106	83304174 83304173 83304172	6 6 6	Nut 1/4in-20NC Flatwasher 1/4" Regular Stud 1/4"-20NC	
107	83304170 Use 4751600	2 2	Bolt 3/8in-16NC x 1-1/4in Flatwasher 3/8in Regular	
201		Ref	FUEL CAP OPTIONS 7016314 Caterpillar & Deutz Engine Machines (Standard Black) 1120487 Caterpillar & Deutz Engine Machines (Optional Blue) 70001103 GM Engine Machines	
301	2200222 0100020	Ref AR	ENGINE INSTALLATIONS 1 Plug AR Sealant	

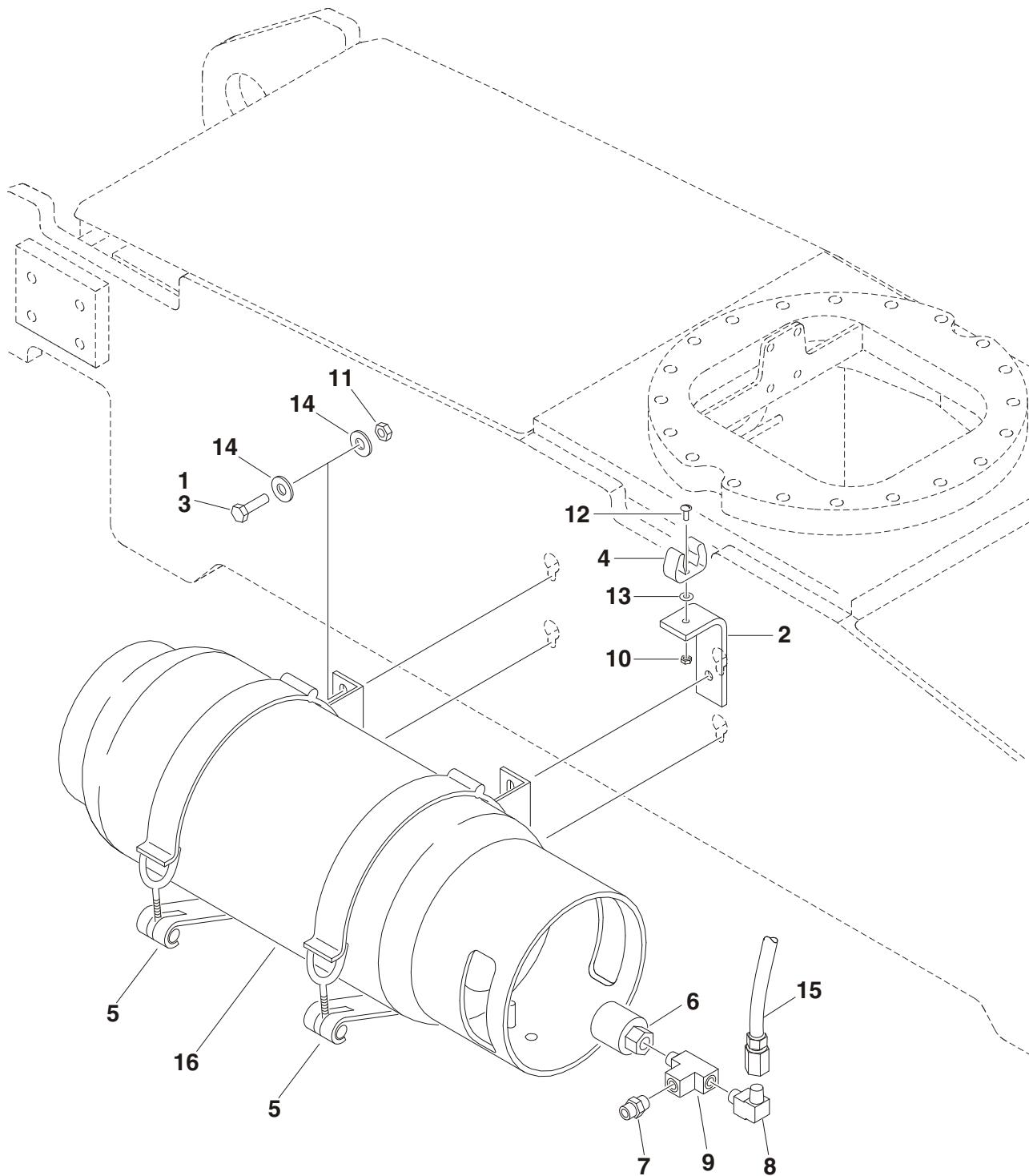
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FIGURE 2-15. TANK INSTALLATIONS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 2-16.LP TANK INSTALLATION (GM ENGINE MACHINES ONLY)



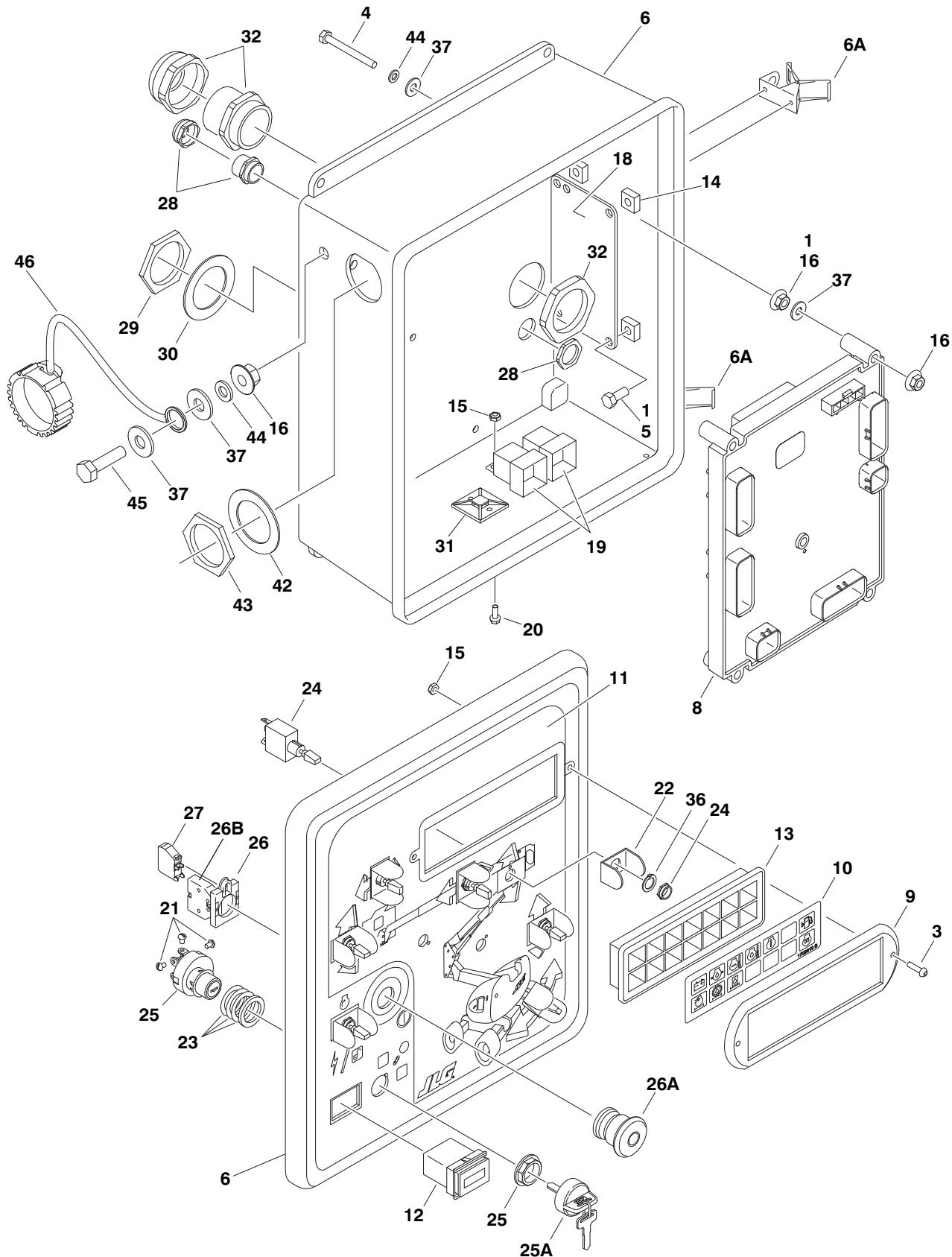
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FIGURE 2-16. LP TANK INSTALLATION (GM ENGINE MACHINES ONLY)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001139888	Ref	LP TANK AND BRACKETS INSTALLATIONS	A
1	0100011	AR	Compound, Locking	
2	0181949	AR	Angle, Support	
3	0641615	4	Bolt 3/8in-16NC x 1-7/8in	
4	1320218	1	Clamp, Spring	
5	1320220	1	Clamp Kit	
6	2180387	1	Fitting, LP	
7	2180389	1	Fitting	
8	2180504	1	Fitting, Elbow	
9	2220290	1	Fitting, Tee	
10	3310805	1	Locknut #8-32NC	
11	3311601	4	Nut 3/8in-16NC	
12	3910808	1	Screw #8-32NC x 1in	
13	4750800	1	Flatwasher #8 Regular	
14	4891600	8	Flatwasher 3/8in Hardened	
15	2720149	1	Hose	
16		1	Tank, LPG Options: Aluminum Tank Steel Tank	
	4400275			
	4400420			

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FIGURE 2-17.GROUND CONTROL BOX ASSEMBLY



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FIGURE 2-17. GROUND CONTROL BOX ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	GROUND CONTROL BOX ASSEMBLIES	
		Ref	450A SERIES II	
		Ref	ANSI & ANSI EXPORT SPECS	
	1001138763	Ref	Caterpillar Engine Machines	B
	1001138766	Ref	Deutz D2011 Engine Machines	B
	1001147000	Ref	Deutz TD2.9L4 Engine Machines	B
	1001138702	Ref	GM Engine Machines	B
	See Note	Ref	AUSTRALIAN SPECS (Note: Not Available)	
		Ref	CE SPECS	
	1001138665	Ref	Caterpillar Engine Machines	A
	1001138765	Ref	Deutz Engine Machines	B
		Ref	450AJ SERIES II	
		Ref	ANSI & ANSI EXPORT SPECS	
	1001138762	Ref	Caterpillar Engine Machines	B
	1001138764	Ref	Deutz D2011 Engine Machines	B
	1001147002	Ref	Deutz TD2.9L4 Engine Machines	B
	1001138767	Ref	GM Engine Machines	B
		Ref	AUSTRALIAN SPECS	
	1001138762	Ref	Caterpillar Engine Machines	B
	1001138764	Ref	Deutz Engine Machines	B
		Ref	CE SPECS	
	1001138761	Ref	Caterpillar Engine Machines	B
	1001138676	Ref	Deutz Engine Machines	B
1	0100011	AR	Compound, Locking	
2	0100048	AR	Grease, Dielectric	
3	0630518	2	Screw, Button Head	
4	0630548	5	Bolt	
5	0641506	4	Bolt 5/16in-18NC x 3/4in	
6	1001105784	1	Box, Fiberglass	
6A	7020246	2	Latch	
7	Not Used			
8	1001103667	1	Module, Control (Re-calibration Required When Replaced)	
9	1670829	1	Bezel	
10	1706712	1	Decal - Ground Control Display	
11		1	Decal - Faceplate	
	1001102597		450A Series II	
	1001102598		450AJ Series II	
12	2420172	1	Gauge, Hourmeter	
13	2760105	1	Housing, Display Light	
14	3300205	4	Nut, Retainer	
15	3300408	4	Locknut, Plastic Insert	
16	77143013	11	Locknut 1/4in-20NC	
17	Not Used			
18	3539219	1	Plate, Reinforcement	
19	3740049	2	Relay - SPDT	
20	3900268	2	Screw #10-24NC x 1/2in	
21	3910804	6	Screw #8-32NC x 1/4in	
22	4060906	1	Shield, Toggle Switch	

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FIGURE 2-17. GROUND CONTROL BOX ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
23	4070987 1001151393	1	Shim Options: Shim (.015in) Shim(.063in)	
24	4360328	AR	Switch, Toggle	
25	4360469 4360470	1	Switch, Key Options: ANSI/ANSI Export/Australian/CSA Specs CE Specs	
25A	2860030	1	Key	
26	4360475	1	Switch, Emergency Stop	
26A	7020175	1	Cap, Mushroom Head	
26B	7020176	1	Block, Contact	
27	4360476	1	Switch, Contact Block	
28	4460426	1	Connector, Strain Relief	
29	4460470	1	Nut, Terminal	
30	4460471	1	Locknut, Terminal	
31	4460488	10	Base, Terminal Mounting	
32	4460526	1	Connector, Strain Relief	
33 to 35	Not Used			
36	4740444	AR	Washer, Special	
37	4751400	12	Flatwasher 1/4in Regular	
38	Not Used			
39	1001138588	1	Valve Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
40	1001105636 1001105636 1001147005 1001105636	1	Ground Control Box Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown) Caterpillar Engine Machines Deutz D2011 Engine Machines Deutz TD2.9L4 Engine Machines GM Engine Machines	
41	1001139084 1001139085 1001147004 1001139086	1	Engine Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown) Caterpillar Engine Machines Deutz D2011 Engine Machines Deutz TD2.9L4 Engine Machines GM Engine Machines	
42	4460496	1	Lockwasher	
43	4460497	1	Nut	
44	4761400	6	Lockwasher 1/4in	
45	0641407	1	Bolt 1/4in-20NC x 7/8in	
46	1001106736	1	Cap, Dust	

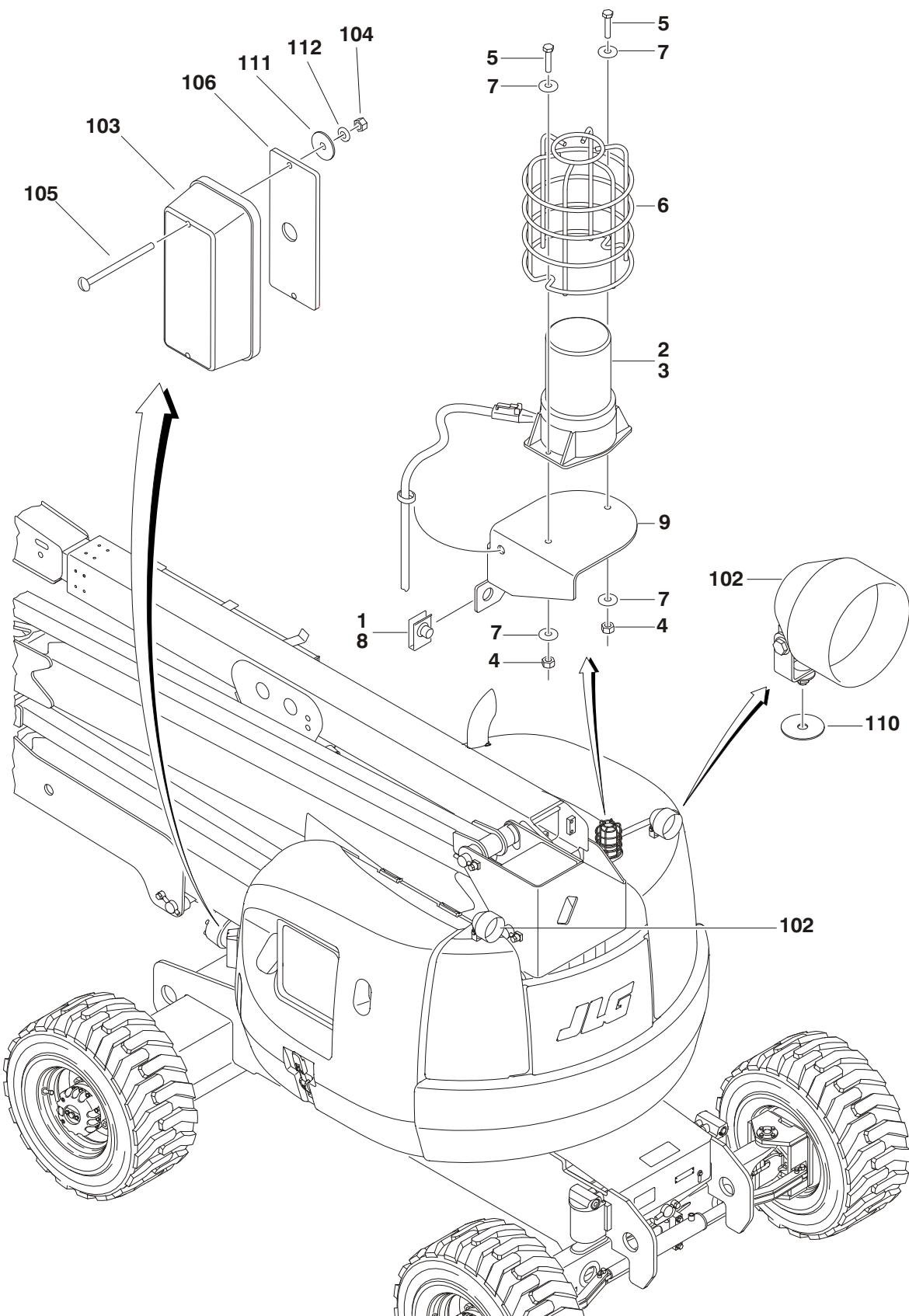
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FIGURE 2-17. GROUND CONTROL BOX ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 2-18.LIGHT INSTALLATIONS



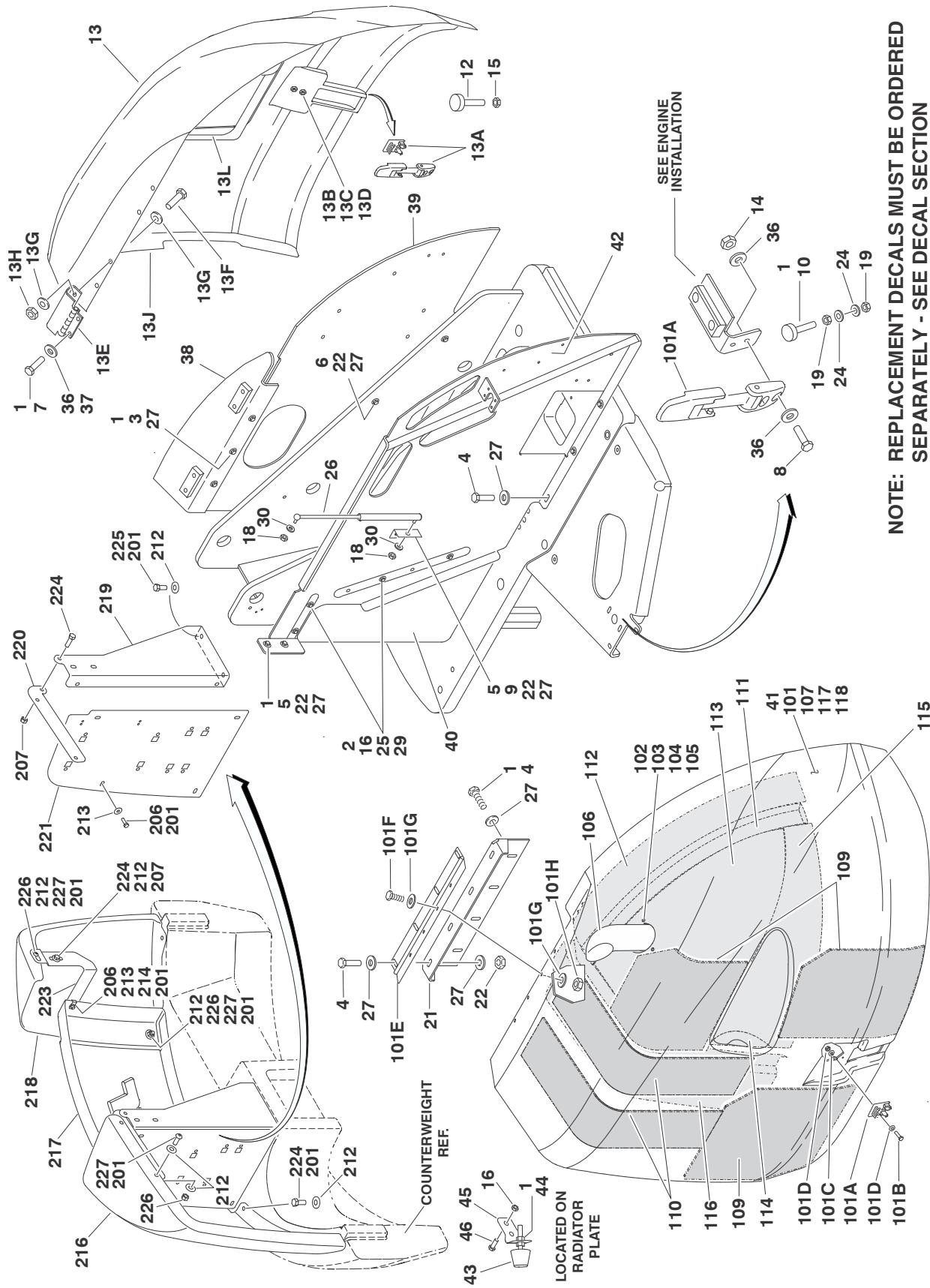
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FIGURE 2-18. LIGHT INSTALLATIONS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001145514	Ref	STROBE LIGHT INSTALLATION (AMBER) (OPTIONAL)	B
		Ref	Note: If machine is equipped with BLUE Strobe Light, see SPECIAL OPTIONS SECTION SkyGuard Kit	
1	0100011	AR	Compound, Locking	
2	0100048	AR	Sealant, Silicone	
3	2920161	1	Strobe Light Assembly	
	7016319	1	Bulb, Replacement	
	7016372	1	Lens	
	4460891	1	Plug, Male	
	4460265	2	Socket, Female	
4	3290405	2	Nut M4	
5	0760410	2	Screw M4 x 20mm	
6	4060865	1	Guard	
7	1001091102	4	Flatwasher M4	
8	88662523	2	Nut, Tinnerman	
9	1001145564	1	Bracket	
		Ref	LIGHTS INSTALLATIONS (OPTIONAL)	A
	1001145717	Ref	Headlights & Taillights	
101	1705170	1	Decal, Lights (Not Shown - Located on Console)	
102	2920110	2	Headlight	
	7016628	2	Bulb, Light (1 Per Light)	
103	2920113	2	Taillight	
104	3311005	4	Nut #10-24NC	
105	3911040	4	Screw, Machine #10-24NC x 2-1/2in	
106	3960461	2	Gasket	
107	4240032	12	Tie-Strap (Not Shown)	
108	4360522	1	Switch, Push Button (Not Shown - Located on Console):	
109	4460234	12	Mount, Tie-Strap (Not Shown)	
110	4740076	2	Washer, Fender	
111	4740362	4	Washer, Fender	
112	4751000	4	Flatwasher #10 Regular	

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FIGURE 2-19.HOODS INSTALLATION



NOTE: REPLACEMENT DECALS MUST BE ORDERED SEPARATELY - SEE DECAL SECTION

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FIGURE 2-19. HOODS INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	HOODS INSTALLATION	
	1001137917	Ref	Caterpillar Engine USA Built Machines	C
	1001145955	Ref	Caterpillar Engine Romanian Built Machines	B
	1001137915	Ref	Deutz D2011 Engine ANSI & ANSI Export Spec Machines	E
	1001137916	Ref	Deutz D2011 Engine Australian & CE Spec Machines	E
	1001146617	Ref	Deutz TD2.9L4 Engine	C
	1001137914	Ref	GM Engine Machines	B
1	0100011	AR	Compound, Locking	
2	0641408	4	Bolt 1/4in-20NC x 1in	
3	0641607	AR	Bolt 3/8in-16NC x 7/8in	
	0641606	AR	Bolt 3/8in-16NC x 3/4in	
4	0641608	AR	Bolt 3/8in-16NC x 1in	
5	0641610	AR	Bolt 3/8in-16NC x 1-1/4in	
6	0641614	4	Bolt 3/8in-16NC x 1-3/4in	
7	0721004	4	Bolt #10-24NC x 1/2in	
8	0721006	4	Bolt #10-24NC x 3/4in	
9	0902504	1	Angle, Mounting	
10	0940049	1	Bumper	
11	Not Used			
12	0940083	1	Bumper	
13	2680439	1	Hood Kit (Tank Side) (Includes Items 13A-13H)	
		Ref	Note: Replacement Decals Must Be Ordered Separately - See DECAL SECTION.	
13A	2940109	1	Latch	
13B	0721008	2	Screw, Machine #10-24NC x 1in	
13C	4751000	4	Flatwasher #10 Regular	
13D	3311005	2	Locknut #10-24NC	
13E	2600246	2	Hinge	
13F	0721006	4	Screw, Machine #10-24NC x 3/4in	
13G	4751000	8	Flatwasher #10 Regular	
13H	3311005	4	Locknut #10-24NC	
14	3311005	4	Locknut #10-24NC	
15	3311401	2	Nut 1/4in-20NC	
16	3311405	AR	Locknut 1/4in-20NC	
17	Not Used			
18	3311505	2	Nut 5/16in - 18NC	
19	3311502	10	Nut, Jam 5/16in - 18NC	
20	Not Used			
21		1	Plate, Hinge Mounting Options: All Machines except Machines with Deutz TD2.9L4 Engines Machines with Deutz TD2.9L4 Engines	
	3573024			
	1001163609			
22	3311605	AR	Locknut 3/8in-16NC	
23	Not Used			
24	4711500	2	Flatwasher 5/16in Thin	
25	4740362	4	Washer, Fender	
26	4160170	1	Spring, Gas	
27	4751600	34	Flatwasher 3/8in Regular	
28	Not Used			

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FIGURE 2-19. HOODS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
29	4751400	4	Flatwasher 1/4in Regular	
30	4751500	2	Flatwasher 5/16in Regular	
31 to 35	Not Used			
36	4750800	12	Flatwasher #8 Regular	
37	4751000	8	Flatwasher #10 Regular	
38	4846037	1	Hood Mounting Weldment	
39	4846424	1	Hood Mounting Weldment	
40		1	Panel Options:	
	See Note		Caterpillar Engine Machines (Note: See Caterpillar Engine Installation for call-out)	
	1001138444		Deutz D2011 & GM Engine Machines	
	1001146691		Deutz TD2.9L4 Engine Machines	
41		1	Hood Kit (Engine Side) Options (See Items 101-112 for Breakdown):	
	Use 1001146953		Caterpillar Engine (was p/n 2680438 & 1001138940 & 1001145959)	
	Use 1001146953		Deutz D2011 Engine ANSI & ANSI Export Spec Machines (was p/n 2680438 & 1001138940)	
	Use 1001146954		Deutz D2011 Engine Australian & CE Spec Machines (was p/n 2680438 & 1001138941)	
	1001146663		Deutz TD2.9L4 Engine	
	Use 10011389064	Ref	GM Engine Machines (was p/n 1671169)	
			Note: Replacement Decals Must Be Ordered Separately - See DECAL SECTION.	
42		1	Hood Mounting Weldment Options:	
	1001099364		Caterpillar Engine Machines	
	1001140647		Deutz Engine Machines SN 0300160835 to SN 0300163170	
	1001140646		Deutz Engine Machines SN 0300163170 to Present	
	1001140646		GM Engine Machines	
43	0940088	AR	Bumper	
44	3321501	4	Nut 5/16in-24NF	
45	1001147782	1	Bracket	
46	0641406	2	Bolt 1/4in-20NC x 3/4in	
		Ref	ENGINE HOOD ASSEMBLY	
	1001146953	Ref	Caterpillar Engine Machines	B
	1001146953	Ref	Deutz D2011 Engine ANSI & ANSI Export Spec Machines	B
	1001146954	Ref	Deutz D2011 Engine Australian & CE Spec Machines	B
	1001146663	Ref	Deutz TD2.9L4 Engine (Note: Does Not include Exhaust Stack)	C
	Use 1001138906	Ref	GM Engine Machines (was p/n 1671169)	A
		Ref	Note: Replacement Decals Must Be Ordered Separately - See DECAL SECTION.	
101	See Note	1	Hood (Note: Not Available - Purchase Hood Assembly)	
101A	2940109	1	Latch	
101B	0721008	2	Screw, Machine #10-24NC x 1in	
101C	4751000	4	Flatwasher #10 Regular	
101D	3311005	2	Locknut #10-24NC	

SECTION 2 TURNTABLE

FIGURE 2-19. HOODS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
101E	2600210 1001120042 2600210	1	Hinge Options: Caterpillar & Deutz D2011 Engine Machines Deutz TD2.9L4 Engine Machines GM Engine Machines	
101F	3900232	4	Screw, Button Head 3/8in-16NC x 1-1/4in	
101G	4751600	8	Flatwasher 3/8in Regular	
101H	3311605	4	Locknut 3/8in-16NC	
102	3311601	3	Nut 3/8in-16NC	
103	3900232	3	Capscrew, Button Head 3/8in-16NC 1-1/4in	
104	4740500	3	Washer, Special	
105	4751600	34	Flatwasher 3/8in Regular	
106		1	Exhaust Tube Weldment Options: Caterpillar & Deutz D2011 Engine Machines Deutz TD2.9L4 Engine Machines (Note: Not Included with Hood Assembly - Must be Purchased Separately) GM Engine Machines	
107	1001117038	Ref	Note: Items 107-110 are for Deutz D2011 & Caterpillar Engine Machines USA Built Machines SN 0300160835 to SN 0300176039 & Romanian Built Machines SN E300001114 to SN E300001317	
107	1001117139	AR	Insulation (was p/ns 1001105272, 1001105273, 1001105275, 1001105276, 1001109495) (USA Built Machines SN 0300160835 to SN 0300176039 & Romanian Built Machines SN E300001114 to SN E300001317) (Note: Insulation must cover complete inside of hood)	
108	1001117140	AR	Tape (Not Shown - Use to install Insulation)	
109	2820099	3	Insulation (Deutz Engine Australian & CE Spec Machines Only) (Note: Install over Item 107)	
110	2820100	2	Insulation (Deutz Engine Australian & CE Spec Machines Only) (Note: Install over Item 107)	
111		Ref	Note: Items 111-116 are for Deutz D2011 & Caterpillar Engine Machines USA Built Machines SN 0300176039 to Present & Romanian Built Machines SN E300001317 to Present.	
111	1001153313	1	Insulation (Deutz Engine All Specs)	
112	1001153314	1	Insulation (Deutz Engine All Specs)	
113	1001153315	1	Insulation (Deutz Engine All Specs)	
114	1001153316	1	Insulation (Deutz Engine All Specs)	
115	1001153317	1	Insulation (Deutz Engine All Specs)	
116	1001153318	1	Insulation (Deutz Engine All Specs)	
117		Ref	Note: Items 117 is for Deutz TD2.9L4 Engine Machines	
117	1001152566	AR	Insulation (Deutz TD2.9L4 Engine Machines) (Note: Insulation must cover complete inside of hood)	
117	1001117140	AR	Tape (Not Shown - Use to install Insulation)	
118		Ref	Note: Items 118 is for all GM Engine Machines	
118	1001117139	AR	Insulation (was p/ns 1001105272, 1001105273, 1001105275, 1001105276, 1001109495) (USA Built Machines SN 0300160835 to SN 0300176039 & Romanian Built Machines SN E300001114 to SN E300001317) (Note: Insulation must cover complete inside of hood)	
118	1001117140	AR	Tape (Not Shown - Use to install Insulation)	

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FIGURE 2-19. HOODS INSTALLATION (CONTINUED)

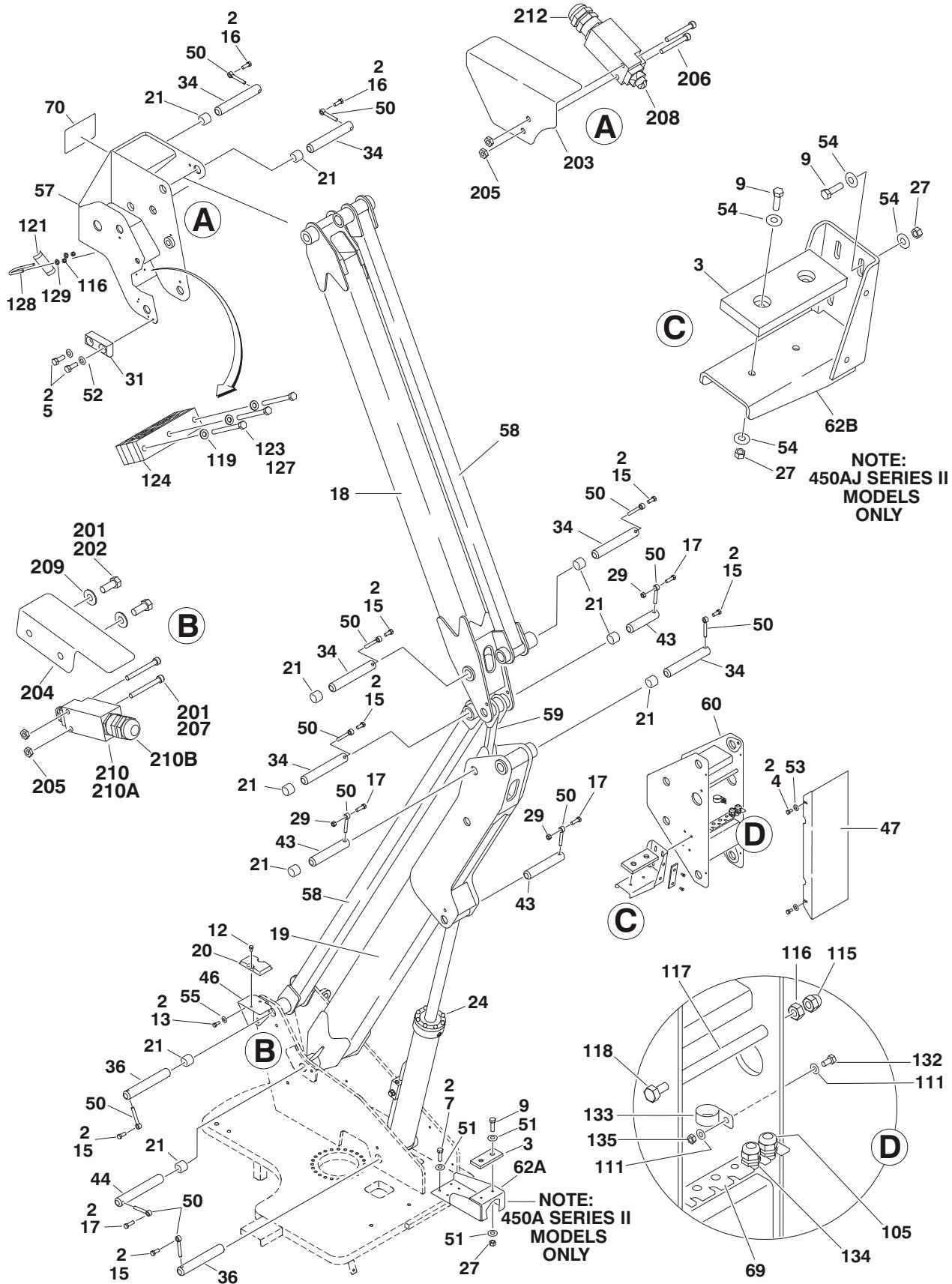
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	REAR COVERS INSTALLATION	
	1001140652	Ref	450A Series II 2WD FF tires & 4WD FF Tires/450AJ Series II 4WD FF Tires	E
	1001141868	Ref	450A Series II 2WD PN Tires/450AJ Series 4WD PN Tires	E
	1001141867	Ref	450A Series II 4WD PN Tires/450AJ Series II 2WD FF Tires	E
	1001141869	Ref	450AJ Series II 2WD PN tires	E
201	0100011	AR	Compound, Locking	
202 to 205	Not Used			
206	0760812	5	Bolt M8 x 25mm	
207	3311605	2	Locknut M8	
208 to 211	Not Used			
212	4751600	21	Flatwasher 3/8in	
213	4811902	5	Flatwasher M8	
214	1001118274	5	U-Nut M8	
215	Not Used			
216	1001140656	1	Cover, Rear (Engine Side)	
217	1001140657	1	Cover, Rear (Center)	
218	1001140658	1	Cover, Rear (Tank Side)	
219	1001140659	1	Bracket	
220	1001140660	1	Bracket	
221	1001140662	1	Baffle	
222	Not Used			
223	1001145070	1	Bracket	
224	0641607	5	Bolt 3/8in-16NC x 7/8in	
225	0641609	2	Bolt 3/8in-16NC x 1-1/8in	
226	3311601	7	Nut 3/8in-16NC	
227	3900316	7	Screw 3/8in-16NC x 1in	

SECTION 3

BOOM

SECTION 3 BOOM

FIGURE 3-1.TOWER/MID BOOMS AND CYLINDERS INSTALLATION (USA BUILT MACHINES)



SECTION 3 BOOM

FIGURE 3-1. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	TOWER BOOMS AND CYLINDERS INSTALLATIONS	
	1001143921	Ref	450A Series II without Arctic Package	A
	1001143924	Ref	450A Series II with Arctic Package	A
	1001143922	Ref	450AJ Series II without Arctic Package	A
	1001143923	Ref	450AJ Series II with Arctic Package	A
1	Not Used			
2	0100011	AR	Compound, Locking	
3	0561076	1	Block, Boom Rest	
4	0641505	4	Bolt 5/16in-18NC x 5/8in	
5	0641507	2	Bolt 5/16in-18NC x 7/8in	
6 to 8	Not Used			
7	0641608	AR	Bolt 3/8in-16NC x 1in	
8	Not Used			
9	0641610	AR	Bolt 3/8in-16NC x 1-1/4in	
10 to 11	Not Used			
12	0641806	2	Bolt 1/2in-13NC x 3/4in	
13	0641810	3	Bolt 1/2in-13NC x 1-1/4in	
14	Not Used			
15	0642012	6	Bolt 5/8in-11NC x 1-1/2in	
16	0642014	2	Bolt 5/8in-11NC x 1-3/4in	
17	0642016	4	Bolt 5/8in-11NC x 2in	
18	0801272	1	Boom, Mid	
19	0801273	1	Boom, Tower	
20	0940048	1	Bumper	
21	0961950	20	Bearing	
22 to 23	Not Used			
24	1684070	1	Tower Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
25 to 28	Not Used			
27	3311605	AR	Locknut 3/8in-16NC	
28	Not Used			
29	3312005	3	Locknut 5/8in-11NC	
30	Not Used			
31	3340914	1	Pad	
32 to 33	Not Used			
34	3422568	6	Pin	
35	Not Used			
36	3422664	2	Pin	
37 to 42	Not Used			
43	3422912	3	Pin	
44	3422913	1	Pin	
45	Not Used			
46	3572691	1	Bracket, Boom Rest	
47	3572826	1	Cover	

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FIGURE 3-1. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
48 to 49	Not Used			
50	3841258	12	Keeper, Pin	
51	4711600	AR	Flatwasher 3/8in Thin	
52	4711500	2	Flatwasher 5/16in Thin	
53	4751500	4	Flatwasher 5/16in Regular	
54	4751600	AR	Flatwasher 3/8in Regular	
55	4751800	3	Flatwasher 1/2in Regular	
56	Not Used			
57		1	Upright (Upper) Options: 450A Series II 450AJ Series II	
58	4846366			
59	4846335			
60	4846336	2	Link	
61	4846343	1	Link, Timing	
62	4846346	1	Upright (Lower)	
63	Not Used			
64 to 68		1	Rest, Boom Options: 450A Series II 450AJ Series II	
69	3572750			
70	4846428			
	63	1	Cable, Electrical 18/2 Options (Not Shown): Without Arctic Package With Arctic Package	
	Not Used			
69	1001141014	1	Plate, Bulkhead Shim	
70	1671013	1	Cover (450A Series II with Arctic Package Only)	
		Ref	BOOM CABLES AND CLAMPS INSTALLATIONS	
		Ref	450A Series II:	
	0271311	Ref	ANSI/ANSI Export /CSA Specs without SkyPower	J
	0271310	Ref	Australian/CE Specs without SkyPower	J
	0273279	Ref	All Specs with SkyPower	C
	1001097502	Ref	All Specs with Arctic Package	A
	1001097503	Ref	All Specs with Arctic Package & SkyPower	B
		Ref	450AJ Series II:	
	0271122	Ref	ANSI/ANSI Export /CSA Specs without SkyPower)	J
	0271206	Ref	Australian/CE Specs without SkyPower	J
	0275116	Ref	All Specs without SkyPower with Arctic Package	D
	1001115917	Ref	ANSI Spec without SkyPower with Communication System	A
	0273280	Ref	All Specs with SkyPower	C
	0275786	Ref	All Specs with SkyPower with Arctic Package	C
	1001116516	Ref	ANSI Spec with SkyPower with Communication System	A
			Note: For Additional Components See ELECTRICAL SECTION	
101 to 104	Not Used			
105	4460425	1	Connector, Strain Relief (without SkyPower)	
106 to 110	Not Used			
111	4751400	2	Flatwasher 1/4in Regular	
112	Not Used			

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FIGURE 3-1. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
113		1	Harness, Tower Boom Options (Not Shown - See ELECTRICAL SECTION): Without Arctic Package With Arctic Package	
	4922530			
	4923458			
114	Not Used			
115	3300420	1	Nut, Acorn 1/4in-20NC	
116	3311605	3	Locknut 3/8in-16NC	
117	3860096	1	Roller	
118	0630498	1	Bolt	
119	4711500	3	Flatwasher 5/16in Thin	
120		AR	Tie-Strap Options (Not Shown): Without Arctic Package With Arctic Package With Communication System	
	4240099			
	4240018			
	4240018			
121	4061032	2	Shield, Cable	
122	Not Used			
123	0641528	3	Bolt 5/16in-18NC x 3-1/2in	
124		1	Block, Clamp Options: All Machines Except Machines with Both Arctic Package & SkyPower Machines with Arctic Package Only Machines with SkyPower Only Machines with SkyPower with Communication System	
	0561460			
	1321695			
	1321695			
	0561460			
125 to 126	Not Used			
127	0100011	AR	Compound, Locking	
128	1320300	1	Clamp, Hose	
129	4711600	2	Flatwasher 3/8in Thin	
130		AR	Cable, Electrical (Not Shown - See ELECTRICAL SECTION) Machines Without Artic Package or SkyPower (12/3 AC Power Cable): ANSI/ANSI Export /CSA Specs Australian /CE Specs	
	1060987	1		
	1060991	1		
			Machines With SkyPower and/or Artic Package: With SkyPower Only (8/5 AC Power Cable) With Arctic Package Only (12/3 AC Power Cable) With Arctic Package with Sky Power (8/5 AC Power Cable) With Sky Power With Communication System (8/5 AC Power Cable)	
131	Not Used			
132	0641408	1	Bolt 1/4in-20NC x 1in	
133	1320061	1	Clamp, Hose	

SECTION 3 BOOM

FIGURE 3-1. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
134	1321692 1321692 1321692 1321694 1321692	1	Connector, Strain Relief Without Arctic Package With SkyPower Only With Arctic Package & Arctic Package with SkyPower (450A Series II) With Arctic Package & Arctic Package with SkyPower (450AJ Series II) With Communication System	
135	3311405	1	Locknut 1/4in-20NC	
136	1001115713	AR	Cable, Communication (with Communication System Only) (Not Shown)	
	0272497 0275126	Ref Ref Ref	LIMIT SWITCHES INSTALLATIONS 450A/AJ Series II without Arctic Package 450A/AJ Series II with Arctic Package (Arctic Package)	E C
201	0100011	AR	Compound, Locking	
202	0641406	2	Capscrew, 1/4in-20NC x 3/4in	
203	1001096617	1	Cover, Switch	
204	1671086	1	Cover, Switch	
205	3311005	4	Locknut #10-24NC	
206	3931024	2	Capscrew, Socket Head #10-24NC x 1-1/2in	
207	3931030	2	Capscrew, Socket Head #10-24NC x 1-7/8in	
208	4360548	1	Switch, Limit	
209	4751400	2	Flatwasher, 1/4in Regular	
210		1	Cable/Limit Switch Harness Assembly Options (See ELECTRICAL SECTION for Breakdown):	
	4922714 4923467	1 1	Without Arctic Package With Arctic Package	B A
210A	4360548	1	Switch, Limit	
210B	4460968	1	Connector, Strain Relief	
211	4060803	8.5in/217mm	Shield, Flex Trim (Not Shown)	
212	4460968	1	Connector, Strain Relief	

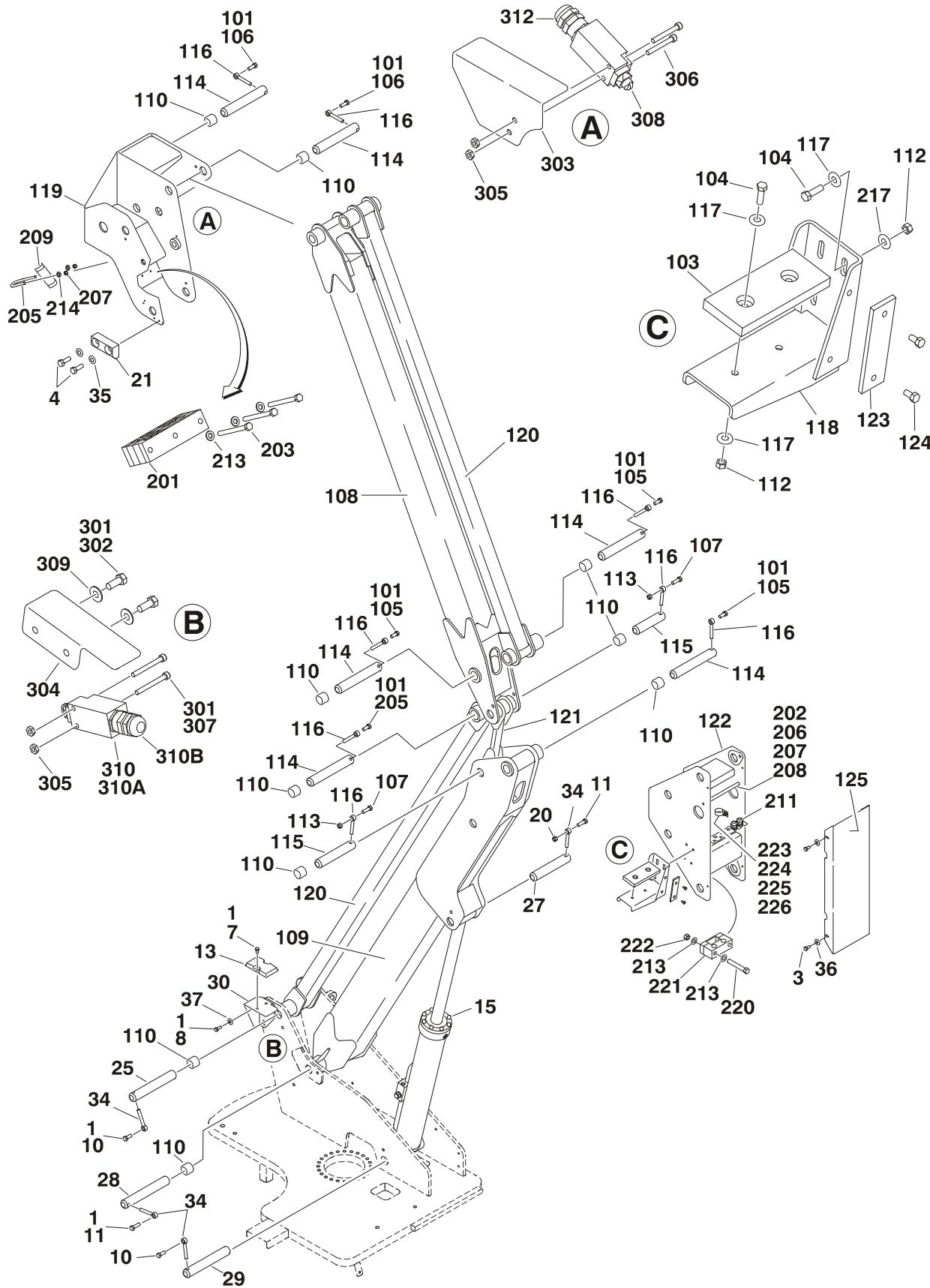
SECTION 3 BOOM

FIGURE 3-1. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 3-2.TOWER/MID BOOMS AND CYLINDERS INSTALLATION (ROMANIAN BUILT MACHINES)



SECTION 3 BOOM

FIGURE 3-2. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	TOWER BOOMS AND CYLINDERS INSTALLATION	
	0272664	Ref	450AJ Series II Booms and Cylinders Installation	H
	1001098640	Ref	450AJ Series II Boom Assembly	F
	0275438	Ref	450AJ Series II with SkyPower	C
	1001107354	Ref	450AJ Series II Boom Assembly with SkyPower	E
1	0100011	AR	Compound, Locking	
2	Not Used			
3	0641505	4	Bolt 5/16in-18NC x 5/8in	
4	0641507	2	Bolt 5/16in-18NC x 7/8in	
5 to 6	Not Used			
7	0641806	2	Bolt 1/2in-13NC x 3/4in	
8	0641810	3	Bolt 1/2in-13NC x 1-1/4in	
9	Not Used			
10	0642012	2	Bolt 5/8in-11NC x 1-1/2in	
11	0642016	2	Bolt 5/8in-11NC x 2in	
12	Not Used			
13	0940048	1	Bumper	
14	Not Used			
15	1684239	1	Lower Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
16 to 19	Not Used			
20	3312005	1	Locknut 5/8in-11NC	
21	3340914	1	Pad	
22 to 24	Not Used			
25	3422664	1	Pin	
26	Not Used			
27	3422912	1	Pin	
28	3422913	1	Pin	
29	3422664	1	Pin	
30	3572691	1	Bracket, Boom Rest	
31 to 33	Not Used			
34	3841258	4	Keeper, Pin	
35	4711500	2	Flatwasher 5/16in Thin	
36	4751500	4	Flatwasher 5/16in Regular	
37	4751800	3	Flatwasher 1/2in Regular	
		Ref	TOWER BOOM ASSEMBLY	
	0272340	Ref	450AJ Series II	J
	0801592	Ref	450AJ Series II with SkyPower	H
101	0100011	AR	Compound, Locking	
102	Not Used			
103	0561076	1	Block, Boom Rest	
104	0641610	6	Bolt 3/8in-16NC x 1-1/4in	

SECTION 3 BOOM

FIGURE 3-2. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
105	0642012	4	Bolt 5/8in-11NC x 1-1/2in	
106	0642014	2	Bolt 5/8in-11NC x 1-3/4in	
107	0642016	2	Bolt 5/8in-11NC x 2in	
108	0801356	1	Boom, Mid	
109	0801357	1	Boom, Tower	
110	0961950	20	Bearing, Garmax	
111	Not Used			
112	3311605	6	Locknut 3/8in-16NC	
113	3312005	2	Locknut 5/8in-11NC	
114	3422568	6	Pin	
115	3422912	2	Pin	
116	3841258	8	Keeper, Pin	
117	4751600	14	Flatwasher 3/8in Regular	
118	4846905	1	Rest, Boom	
119	4846697	1	Upright (Upper)	
120	3010140	2	Link	
121	4846701	1	Link, Timing	
122	1001145890	1	Upright (Lower)	
123	3340608	1	Pad, Wear	
124	0641605	2	Bolt, 3/8in-16NC x 3/8in	
125	3574066	1	Cover	
		Ref	BOOM CABLES AND CLAMPS INSTALLATIONS	
	0272594	Ref	450AJ Series II	D
	0275436	Ref	450AJ Series II with SkyPower	D
		Ref	Note: For Additional Components See ELECTRICAL SECTION	
201	0561460	1	Block, Clamp	
202	0630498	1	Bolt	
203	0641528	3	Bolt 5/16in-18NC x 3-1/2in	
204		AR	Cable, Electrical Options (Not Shown - See ELECTRICAL SECTION):	
	1060991	1	Without SkyPower (12/3 AC Power Cable)	
	4922857	1	With SkyPower	
205	1320300	1	Clamp, Hose	
206	3300420	1	Nut, Acorn 1/4in-20NC	
207	3311605	3	Locknut 3/8in-16NC	
208	3860096	1	Roller	
209	4061032	2	Shield, Cable	
210	4240018	7	Tie-Strap (Not Shown)	
211		AR	Connector, Strain Relief	
	4460425	2	Without SkyPower	
	1321692	1	With SkyPower	
212	Not Used			
213	4711500	AR	Flatwasher 5/16in Thin	
214	4711600	2	Flatwasher 3/8in Thin	
215	4922530	1	Harness, Tower Boom (Not Shown - See ELECTRICAL SECTION):	

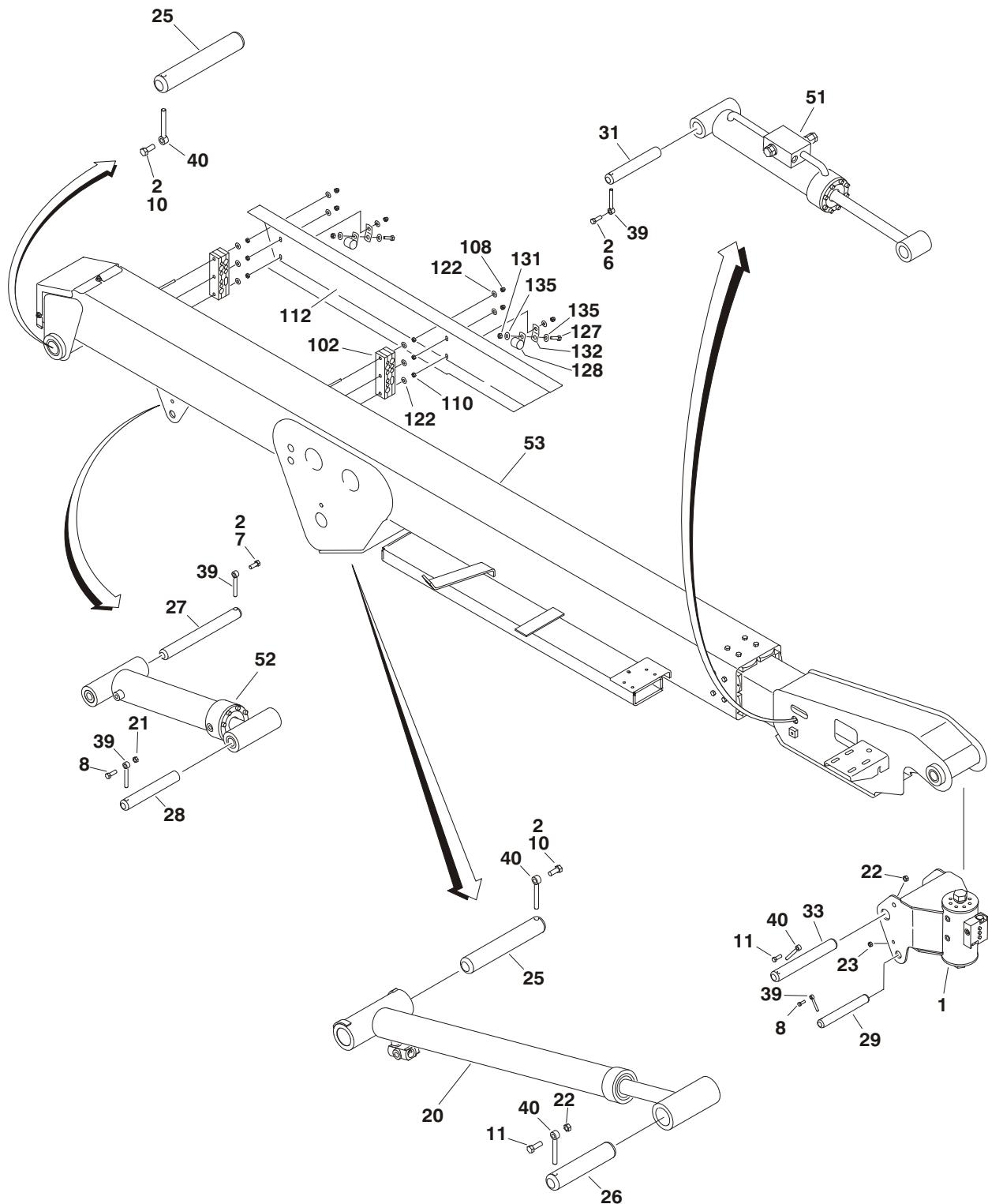
SECTION 3 BOOM

FIGURE 3-2. TOWER/MID BOOMS AND CYLINDERS INSTALLATION (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
216	4922770	1	Cable, Electrical (18/2 Limit Switch) (Not Shown - See ELECTRICAL SECTION)	
217 to 219	Not Used			
220	0641524	AR	Bolt 5/16in-18NC x 3in	
221	1321738	1	Clamp, Block (Machines with SkyPower Only)	
222	3311505	AR	Nut 5/16in-18NC	
223	0641408	1	Bolt 1/4in-20NC x 1in	
224	1320061	1	Clamp, Hose (Machines with SkyPower Only)	
225	3311405	1	Locknut 1/4in-20NC	
226	4751400	2	Flatwasher 1/4in Regular	
227	1320177	1	Clamp, Hose (Not Shown - Used on Airline) (Machines with SkyPower Only)	
228	2220829	1	Fitting, Plug (Not Shown - Used on Airline) (Machines with SkyPower Only)	
229	2221037	1	Fitting, Barbed (Not Shown - Used on Airline) (Machines with SkyPower Only)	
230	2720646	1	Hose, Airline (Not Shown) (Machines with SkyPower Only)	
	0272497	Ref	LIMIT SWITCHES INSTALLATION	E
301	0100011	AR	Compound, Locking	
302	0641406	2	Capscrew, 1/4in-20NC x 3/4in	
303	1001096617	1	Cover, Switch	
304	1671086	1	Cover, Switch	
305	3311005	4	Locknut #10-24NC	
306	3931024	2	Capscrew, Socket Head #10-24NC x 1-1/2in	
307	3931030	2	Capscrew, Socket Head #10-24NC x 1-7/8in	
308	4360548	1	Switch, Limit	
309	4751400	2	Flatwasher, 1/4in Regular	
310	4922714	1	Cable/Limit Switch Harness Assembly	
	1060902	8.5ft/2.6m	Cable, Electrical 18/2 (Not Shown - See ELECTRICAL SECTION) Socket, Contact (Not Shown)	
310A	4360548	1	Switch, Limit	
310B	4460968	1	Connector, Strain Relief	
311	4060803	8.5in/217mm	Shield, Flex Trim (Not Shown)	
312	4460968	1	Connector, Strain Relief	

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FIGURE 3-3.MAIN BOOM INSTALLATION - 450A SERIES II



SECTION 3 BOOM

FIGURE 3-3. MAIN BOOM INSTALLATION - 450A SERIES II

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	BOOM AND CYLINDERS INSTALLATION	
	1001143921	Ref	450A Series II without Arctic Package	A
	1001143924	Ref	450A Series II with Arctic Package	A
1	0060062	1	Rotator Assembly (See Rotator Assemblies for Breakdown)	
2	0100011	AR	Compound, Locking	
3 to 5	Not Used			
6	0641607	1	Bolt 3/8in-16NC x 7/8in	
7	0641608	1	Bolt 3/8in-16NC x 1in	
8	0641610	2	Bolt 3/8in-16NC x 1-1/4in	
9	Not Used			
10	0641810	2	Bolt 1/2in-13NC x 1-1/4in	
11	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
12 to 19	Not Used			
20	1684155	1	Main Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
21	3311605	2	Locknut 3/8in-16NC	
22	3311805	2	Locknut 1/2in-13NC	
23 to 24	Not Used			
25	3422177	2	Pin	
26	3422178	1	Pin	
27	3422179	1	Pin	
28	3422180	1	Pin	
29	3422558	1	Pin	
30	Not Used			
31	3422578	1	Pin	
32	Not Used			
33	3422793	1	Pin	
34 to 38	Not Used			
39	3841143	4	Keeper, Pin	
40	3841203	4	Keeper, Pin	
41 to 50	Not Used			
51	1001140274	1	Level (Platform Slave) Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
52	1001140276	1	Master Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
53	1001143917	1	Main Boom Assembly (See MAIN BOOM ASSEMBLY for Breakdown)	
		Ref	BOOM CABLES AND CLAMPS INSTALLATIONS	
	0271311	Ref	ANSI/ANSI Export/CSA Specs without SkyPower	J
	0271310	Ref	Australian/CE Specs without SkyPower	J
	0273279	Ref	All Specs with SkyPower	C
	1001097502	Ref	All Specs with Arctic Package	A
	1001097503	Ref	All Specs with Arctic Package & SkyPower	B
		Ref	Note: For Additional Components See ELECTRICAL SECTION	
101	Not Used			

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FIGURE 3-3. MAIN BOOM INSTALLATION - 450A SERIES II

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
102	0561459 1321696	2	Block, Clamp Options: Without Arctic Package With Arctic Package	
103 to 107	Not Used			
108	3300151	6	Nut, Acorn 1/4in-20NC	
109	Not Used			
110	3311401	6	Nut 1/4in-20NC	
111	Not Used			
112	3570535	1	Shield	
113 to 121	Not Used			
122	4751400	12	Flatwasher 1/4in Regular	
123	Not Used			
124	4922531 1001097504	1	Harness, Main Boom Options (Not Shown - See ELECTRICAL SECTION): Without Arctic Package With Arctic Package	
125	1060988 1060990	1	Cable, Electrical (Not Shown - See ELECTRICAL SECTION) Machines without Arctic Package or SkyPower (12/3 AC Power Cable): ANSI/ANSI Export/CSA Specs Australian/CE Specs	
	4922857		Machines with Arctic Package or SkyPower: With SkyPower Only (8/5 AC Power Cable)	
	4923461		With Arctic Package Only (12/3 AC Power Cable)	
	4922857		With Both Arctic Package & Sky Power (8/5 AC Power Cable)	
126	Not Used			
127	0641506	2	Bolt 5/16in-18NC x 3/4in (With SkyPower Only)	
128	1320202	2	Clamp (With SkyPower Only)	
129 to 130	Not Used			
131	3311505	2	Locknut 5/16in-18NC (With SkyPower Only)	
132	3574532	2	Plate, Clamp Mounting (With SkyPower Only)	
133 to 134	Not Used			
135	4751500	4	Flatwasher 5/16in Regular (With SkyPower Only)	

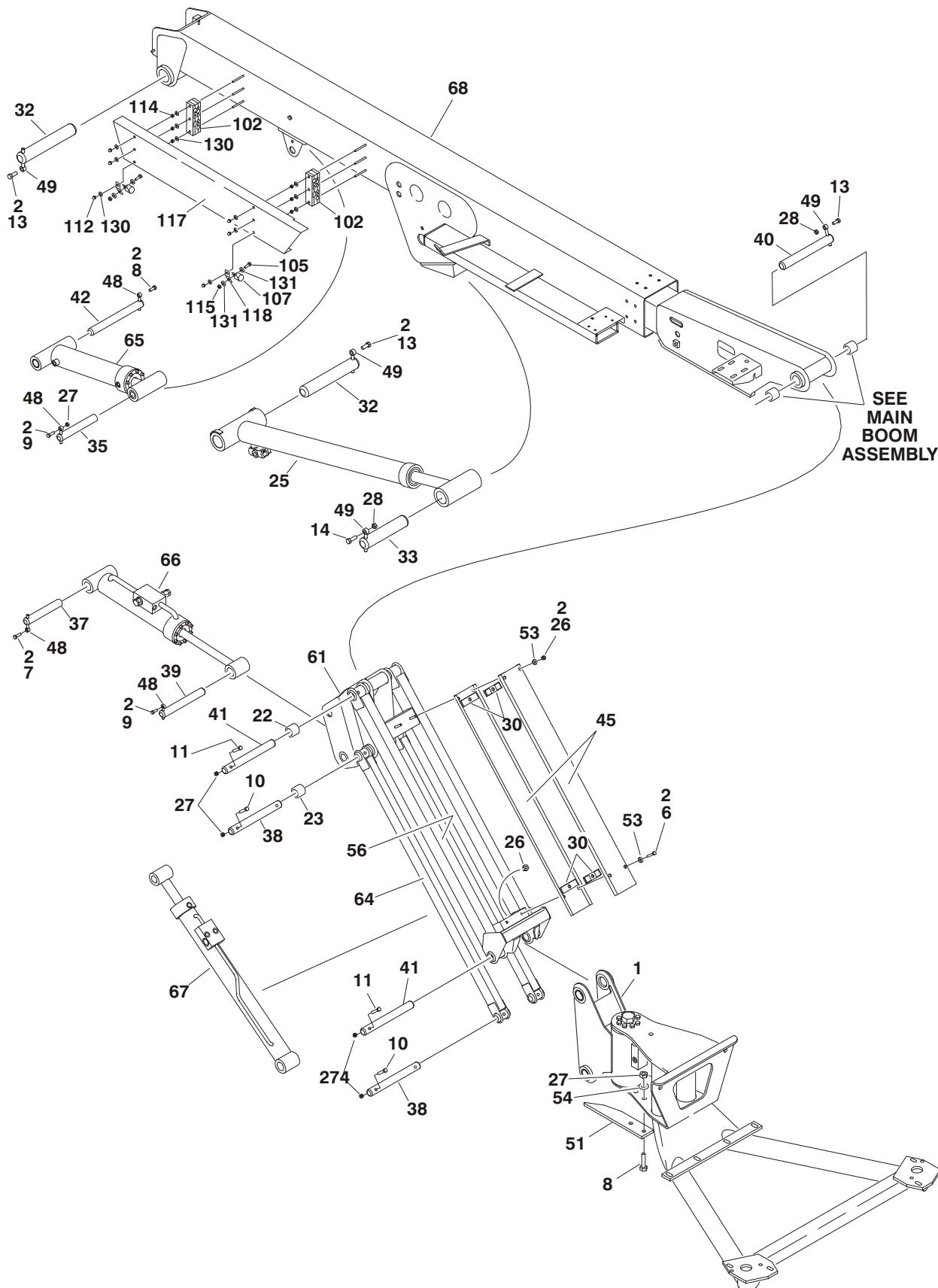
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FIGURE 3-3. MAIN BOOM INSTALLATION - 450A SERIES II

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 3-4.MAIN BOOM INSTALLATION - 450AJ SERIES II (USA BUILT MACHINES)



SECTION 3 BOOM

FIGURE 3-4. MAIN BOOM INSTALLATION - 450AJ SERIES II (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	BOOM AND CYLINDERS INSTALLATION	
	1001143922	Ref	450AJ Series II without Arctic Package	A
	1001143923	Ref	450AJ Series II with Arctic Package	A
1		1	Rotator Assembly Options (See ROTATOR ASSEMBLIES for Breakdown):	
	0060050		Without Arctic Package	
	0060096		With Arctic Package	
2	0100011	AR	Compound, Locking	
3 to 5	Not Used			
6	0641518	2	Bolt 5/16in-18NC x 2-1/4in	
7	0641607	1	Bolt 3/8in-16NC x 7/8in	
8	0641608	3	Bolt 3/8in-16NC x 1in	
9	0641610	2	Bolt 3/8in-16NC x 1-1/4in	
10	0641616	4	Bolt 3/8in-16NC x 2in	
11	0641618	2	Bolt 3/8in-16NC x 2-1/4in	
12	Not Used			
13	0641810	3	Bolt 1/2in-13NC x 1-1/4in	
14	0641812	1	Bolt 1/2in-13NC x 1-1/2in	
15 to 21	Not Used			
22	0961951	2	Bushing	
23	0962292	2	Bushing	
24	Not Used			
25	1684154	1	Main Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
26	3311501	4	Locknut 5/16in-18NC	
27	3311605	9	Locknut 3/8in-16NC	
28	3311805	2	Locknut 1/2in-13NC	
29	Not Used			
30	3340860	4	Pad, Rubber	
31	Not Used			
32	3422177	2	Pin	
33	3422178	1	Pin	
34	Not Used			
35	3422582	1	Pin	
36	Not Used			
37	3422669	1	Pin	
38	3422791	2	Pin	
39	3422792	1	Pin	
40	3422793	1	Pin	
41	3422794	2	Pin	
42	3422806	1	Pin	
43 to 44	Not Used			
45	3572551	2	Channel, Hose Carrier	
46 to 47	Not Used			
48	3841143	4	Keeper, Pin	

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FIGURE 3-4. MAIN BOOM INSTALLATION - 450AJ SERIES II (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
49	3841203	4	Keeper, Pin	
50	Not Used			
51	4220244	1	Stop	
52	Not Used			
53	4751500	6	Flatwasher 5/16in Regular	
54	4751600	2	Flatwasher 3/8in Regular	
55	Not Used			
56	4846278	1	Link, Jib (Upper)	
57 to 60	Not Used			
61	4846356	1	Pivot, Jib	
62	Not Used			
63		1	Cable, Electrical 18/2 Options (Not Shown): Without Arctic Package With Arctic Package	
	4922770			
	4923469			
64	1001094670	2	Link, Jib (Lower)	
65		1	Master Cylinder Assembly Options (See CYLINDER SECTION for Breakdown): Without Arctic Package With Arctic Package	
	1001140278			
	1001138817			
66		1	Level (Platform Slave) Cylinder Assembly (See CYLINDER SECTION for Breakdown) Without Arctic Package With Arctic Package	
	1001140279			
	1001138815			
67		1	Jib Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown) Without Arctic Package With Arctic Package	
	1001140282			
	1001138816			
68	1001143918	1	Main Boom Assembly (See MAIN BOOM ASSEMBLY for Breakdown)	
		Ref	BOOM CABLES AND CLAMPS INSTALLATIONS	
	0271122	Ref	ANSI/ANSI Export /CSA Specs without SkyPower	J
	0271206	Ref	Australian/CE Specs without SkyPower	J
	0275116	Ref	Without SkyPower with Arctic Package	D
	1001115917	Ref	Without SkyPower with Communication System	A
	0273280	Ref	With SkyPower	C
	0275786	Ref	With SkyPower with Arctic Package	C
	1001116516	Ref	With SkyPower with Communication System	A
			Note: For Additional Components See ELECTRICAL SECTION	
101	Not Used			
102		2	Block, Clamp Options: Without Arctic Package With Arctic Package	
	0561459			
	1321696			
103 to 104	Not Used			
105	0641506	2	Bolt 5/16in-18NC x 3/4in (With SkyPower Only)	
106	Not Used			
107	1320202	2	Clamp (With SkyPower Only)	
108 to 111	Not Used			

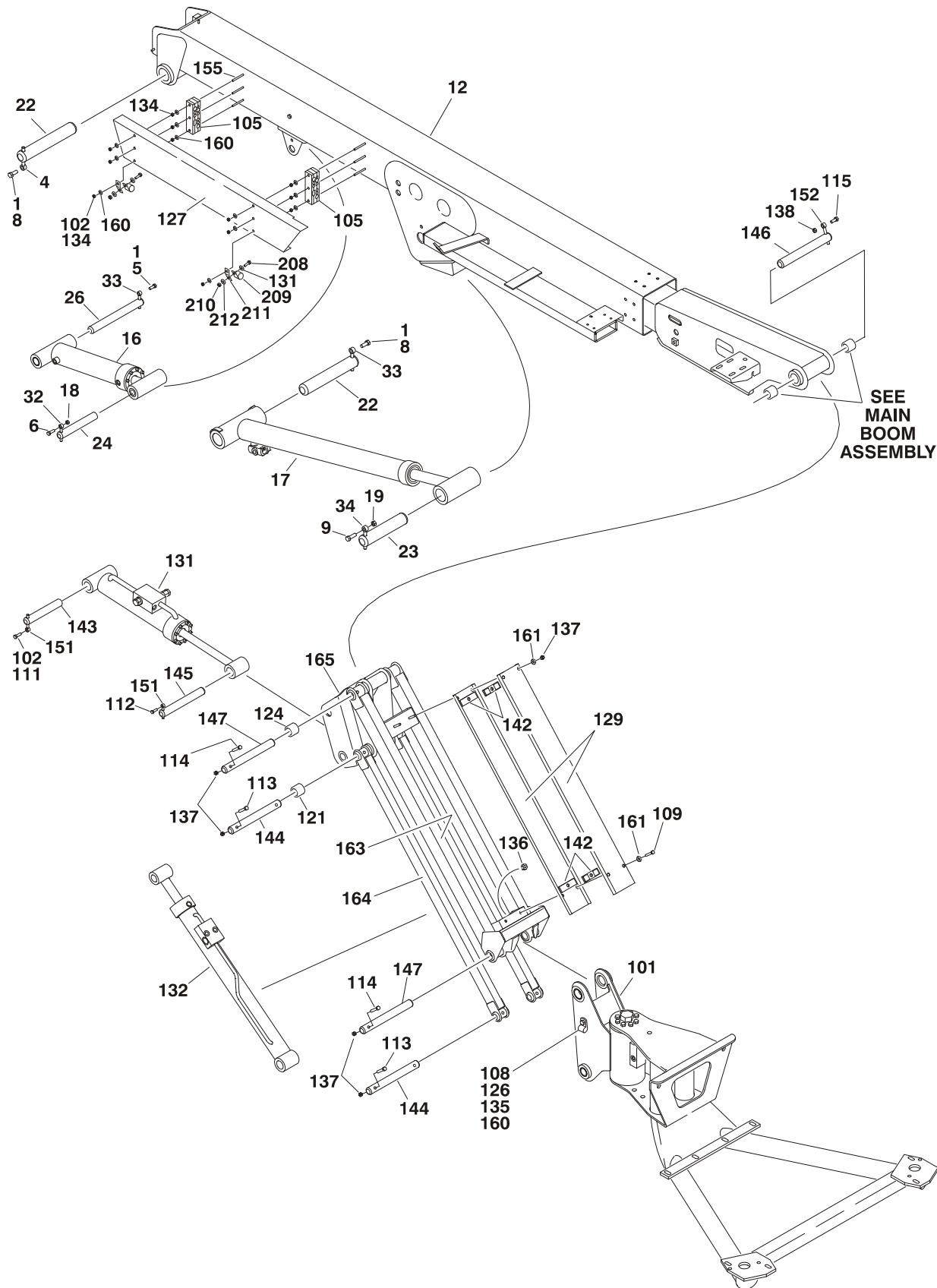
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FIGURE 3-4. MAIN BOOM INSTALLATION - 450AJ SERIES II (USA BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
112	3300151	6	Nut, Acorn 1/4in-20NC	
113	Not Used			
114	3311401	6	Nut 1/4in-20NC	
115	3311505	2	Locknut 5/16in-18NC (With SkyPower Only)	
116	Not Used			
117	3571462	1	Shield	
118	3574532	2	Plate, Clamp Mounting (With SkyPower Only)	
119 to 129	Not Used			
130	4751400	12	Flatwasher 1/4in Regular	
131	4751500	4	Flatwasher 5/16in Regular (With SkyPower Only)	
132 to 133	Not Used			
134		1	Harness, Main Boom Options (Not Shown - See ELECTRICAL SECTION): Without Arctic Package With Arctic Package	
	4922532			
	4923459			
135		1	Cable, Electrical (Not Shown - See ELECTRICAL SECTION) Without SkyPower (12/3 AC Power Cable) With Arctic Package (12/3 AC Power Cable) With SkyPower (8/5 AC Power Cable) With Arctic Package with SkyPower(8/5 AC Power Cable) With Communication System with SkyPower(8/5 AC Power Cable)	
	1060988			
	4923481			
	4922857			
	4922929			
	4922929			
136	1001115916	AR	Cable, Communication (with Communication System Only) (Not Shown)	

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FIGURE 3-5.MAIN BOOM INSTALLATION - 450AJ SERIES II (ROMANIAN BUILT MACHINES)



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FIGURE 3-5. MAIN BOOM INSTALLATION - 450AJ SERIES II (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	MAIN BOOM AND CYLINDERS INSTALLATION	
	0272664	Ref	450AJ Series II Booms and Cylinders Installation	H
	1001098640	Ref	450AJ Series II Boom Assembly	F
	0275438	Ref	450AJ Series II Booms & Cylinders Installation with SkyPower	C
	1001107354	Ref	450AJ Series II Boom Assembly with SkyPower	E
1	0100011	AR	Compound, Locking	
2 to 4	Not Used			
5	0641608	3	Bolt 3/8in-16NC x 1in	
6	0641610	1	Bolt 3/8in-16NC x 1-1/4in	
7	Not Used			
8	0641810	2	Bolt 1/2in-13NC x 1-1/4in	
9	0641812	1	Bolt 1/2in-13NC x 1-1/2in	
10 to 11	Not Used			
12		1	Main Boom Assembly Options (See MAIN BOOM ASSEMBLY & Items 101-165 for Breakdown):	
	0801361		Without SkyPower	
	0801593		With SkyPower	
13 to 15	Not Used			
16	1684241	1	Master Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
17	1684244	1	Upper Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
18	3311605	3	Locknut 3/8in-16NC	
19	3311805	1	Locknut 1/2in-13NC	
20 to 21	Not Used			
22	3422177	2	Pin	
23	3422178	1	Pin	
24	3422582	1	Pin	
25	Not Used			
26	3422806	1	Pin	
27 to 31	Not Used			
32	3841143	2	Keeper, Pin	
33	3841203	3	Keeper, Pin	
34	3841258	4	Keeper, Pin	
35 to 38	Not Used			
39	4220244	1	Stop, Platform	
40	4751600	2	Flatwasher 3/8in Regular	
		Ref	JIB INSTALLATION	
	0801361	Ref	Without SkyPower	M
	0801593	Ref	With SkyPower	K
101	0060050	1	Rotator Assembly (See ROTATOR ASSEMBLIES for Breakdown)	
102	0100011	AR	Compound, Locking	

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FIGURE 3-5. MAIN BOOM INSTALLATION - 450AJ SERIES II (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
103 to 104	Not Used			
105	0561515	2	Clamp, Block	
106 to 108	Not Used			
109	0641518	2	Bolt 516in-18NC x 2-1/4in	
110	Not Used			
111	0641607	1	Bolt 3/8in-16NC x 7/8in	
112	0641610	1	Bolt 3/8in-16NC x 1-1/4in	
113	0641616	4	Bolt 3/8in-16NC x 2in	
114	0641618	2	Bolt 3/8in-16NC x 2-1/4in	
115	0641810	1	Bolt 1/2in-13NC x 1-1/4in	
116 to 120	Not Used			
121	0962292	2	Bushing	
122 to 123	Not Used			
124	0961951	2	Bushing	
125 to 126	Not Used			
127	3571462	1	Shield	
128	Not Used			
129	1671083	2	Cover, Jib Hose	
130	Not Used			
131	1001094789	1	Level (Platform Level) Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
132	1684242	1	Jib Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
133	Not Used			
134	3311402	12	Nut, Jam 1/4in-20NC	
135	Not Used			
136	3311505	4	Locknut 5/16in-18NC	
137	3311605	12	Locknut 3/8in-16NC	
138	3311805	1	Locknut 1/2in-13NC	
139 to 141	Not Used			
142	3340943	4	Pad, Rubber	
143	3422669	1	Pin	
144	3422791	2	Pin	
145	3422792	1	Pin	
146	3422793	1	Pin	
147	3422794	2	Pin	
148 to 150	Not Used			
151	3841143	2	Keeper, Pin	
152	3841203	1	Keeper, Pin	
153 to 154	Not Used			
155	3951420	6	Setscrew 1/4in-20NC x 2-1/2in	
156 to 159	Not Used			
160	4751400	12	Flatwasher 1/4in Regular	
161	4751500	6	Flatwasher 5/16in Regular	
162	Not Used			
163	4846688	1	Link, Jib (Upper)	
164	4846689	2	Link, Jib (Lower)	
165	4846693	1	Pivot, Jib	

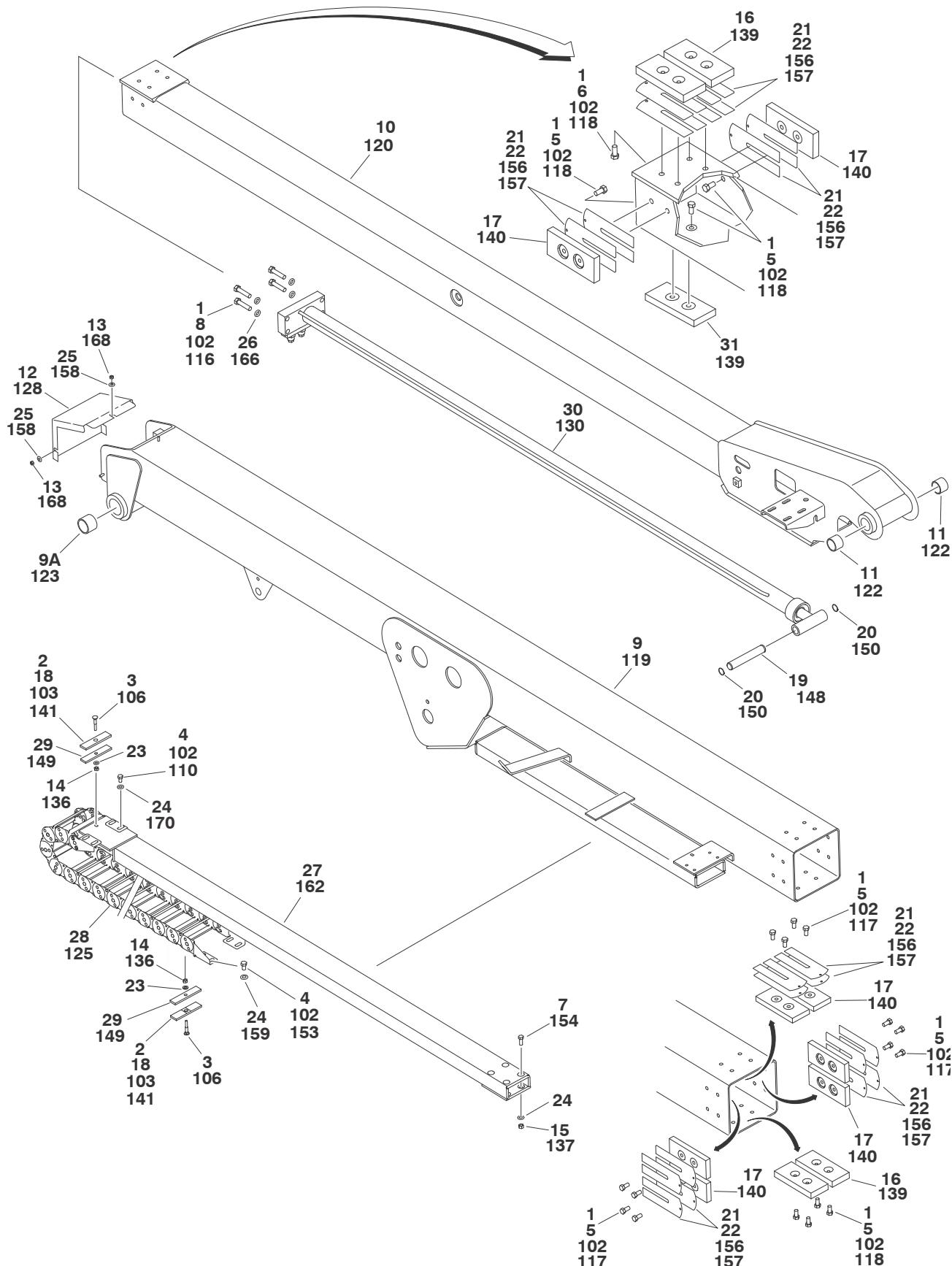
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FIGURE 3-5. MAIN BOOM INSTALLATION - 450AJ SERIES II (ROMANIAN BUILT MACHINES)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272665 0275437	Ref Ref Ref	BOOM CABLES AND CLAMPS INSTALLATION Without SkyPower With SkyPower Note: For Additional Components See ELECTRICAL SECTION	C B
201	1060996	1	Cable, Electrical (AC Cable) (Not Shown - See ELECTRICAL SECTION)	
202	Not Used			
203	4922532	1	Harness, Main Boom (Not Shown - See ELECTRICAL SECTION)	
204 to 206	Not Used			
207	4922929	1	Cable, Electrical (8/5 Generator Cable) (With SkyPower Only) (Not Shown - See ELECTRICAL SECTION):	
208	0641506	2	Bolt 5/16in-18NC x 3/4in (With SkyPower Only)	
209	1320202	2	Clamp (With SkyPower Only)	
210	3311505	2	Locknut 5/16in-18NC (With SkyPower Only)	
211	3574532	2	Plate, Clamp Mounting (With SkyPower Only)	
212	4751500	4	Flatwasher 5/16in Regular (With SkyPower Only)	
213	2820647	1	Hose, Air Line (With SkyPower Only) (Not Shown)	

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FIGURE 3-6.MAIN BOOM ASSEMBLIES



SECTION 3 BOOM

FIGURE 3-6. MAIN BOOM ASSEMBLIES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	MAIN BOOM ASSEMBLY (USA BUILT MACHINES)	
	1001143917	Ref	450A Series II	C
	1001143918	Ref	450AJ Series II	C
1	0100011	AR	Compound, Locking	
2	0100081	AR	Adhesive # 454	
3	0630401	2	Bolt, Carriage 5/16in-18NC x 2in	
4	0641605	8	Bolt 3/8in-16NC x 5/8in	
5	0641606	22	Bolt 3/8in-16NC x 3/4in	
6	0641607	4	Bolt 3/8in-16NC x 7/8in	
7	0641608	4	Bolt 3/8in-16NC x 1in	
8	0641818	4	Bolt 1/2in-13NC x 2-1/4in	
9		1	Base Weldment Options: 450A Series II (Note: Includes Item 9A) 450AJ Series II (Note: Does not includes Item 9A - Must be Purchased Separately)	
9A	0961950	2	Bearing	
10		1	Fly Weldment Options: 450A Series II 450AJ Series II	
11	0961948	2	Bearing	
12	1670679	1	Cover, Boom End	
13	3311401	2	Nut 1/4in-20NC	
14	3311505	4	Locknut 5/16in-18NC	
15	3311605	4	Locknut 3/8in-16NC	
16	3340837	4	Pad, Wear	
17	1001148652	8	Pad, Wear	
18	3340939	2	Pad, Rubber	
19	3422804	1	Pin	
20	3760115	2	Ring, Retaining	
21	4070897	AR	Shim (#18)	
22		AR	Shim Options: Shim (#11) Shim (#16)	
23	4711500	2	Flatwasher 5/16in Thin	
24	4711600	12	Flatwasher 3/8in Thin	
25		3	Washer 1/4in Options: Flatwasher 1/4in Regular (450A Series II) Lockwasher 1/4in (450AJ Series II)	
26	4761800	4	Lockwasher 1/2in	
27	4845767 4846033	1	Tube, Carrier 450A Series II 450AJ Series II	

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FIGURE 3-6. MAIN BOOM ASSEMBLIES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
28	1001099838 1001099833 70001996	1 AR	Powertrack Options: 450A Series II Powertrack 450AJ Series II Powertrack Carrier Repair Section (2ft length - Includes 1 Pin Assembly for each end)	
29	70001998	2 Pr	Mounting Foot Kit (Includes Both Pair of Feet)	
30	1001106757	3	Plate, Clamp	
		1	Telescope Cylinder Assembly Options (See CYLINDER SECTION for Breakdown): 450A Series II SN 0300160835 to SN 0300175029 SN 0300175029 to Present 450AJ Series II SN 0300160835 to SN 0300175029 SN 0300175029 to Present	
31	1001143915 1001152384 1001143916 1001152118 1001149041	1	Pad, Wear	
		Ref	MAIN BOOM ASSEMBLY OPTIONS (ROMANIAN BUILT MACHINES)	
	0801361	Ref	450AJ Series II without SkyPower	M
	0801593	Ref	450AJ Series II with SkyPower	K
101	Not Used			
102	0100011	AR	Compound, Locking	
103	0100081	AR	Adhesive #454	
104 to 105	Not Used			
106	0630401	2	Bolt, Carriage 5/16in-18NC x 2in	
107	0641404	4	Bolt 1/4in-20NC x 1/2in	
108 to 109	Not Used			
110	0641604	4	Bolt 3/8in-16NC x 1/2in	
	0641605	4	Bolt 3/8in-16NC x 5/8in	
111 to 115	Not Used			
116	0641818	4	Bolt 1/2in-13NC x 2-1/4in	
117	0791606	12	Screw 3/8in-16NC x 3/4in	
118	0791607	16	Screw 3/8in-16NC x 7/8in	
119	0801379	1	Base Weldment	
120	0801380	1	Fly Weldment	
121	Not Used			
122	0961948	2	Bearing	
123	0961950	2	Bearing	
124	Not Used			
125	1180378	1	Power Track	
	7026120	AR	2 Ft Repair Section	
	7026119	1	Feet, Mounting (Includes 4 Feet & Mounting Hardware)	
126 to 127	Not Used			
128	1671111	1	Cover, Boom End	
129	Not Used			
130	1684262	1	Telescope Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
131 to 135	Not Used			

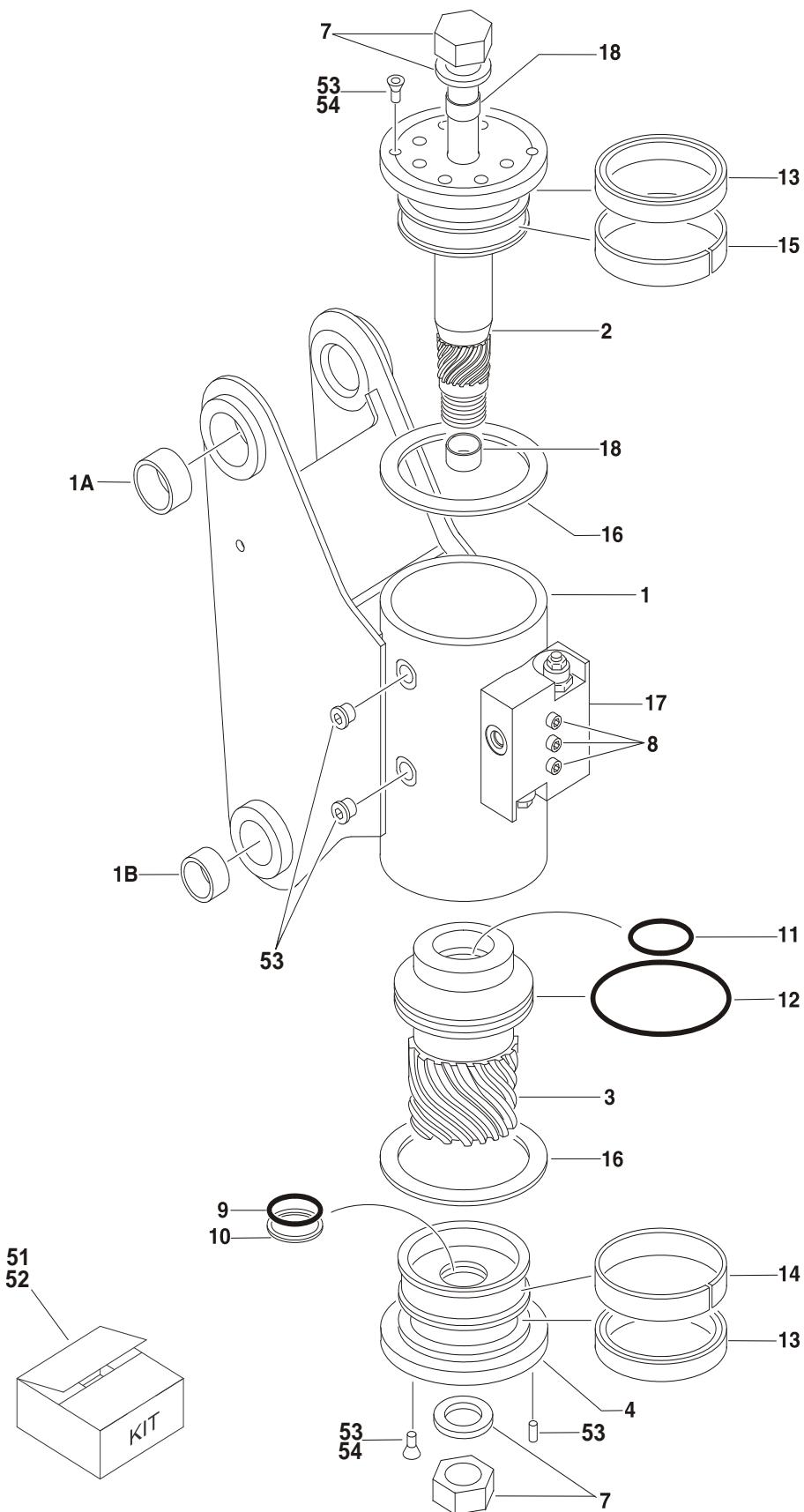
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FIGURE 3-6. MAIN BOOM ASSEMBLIES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
136	3311505	2	Locknut 5/16in-18NC	
137	3311605	10	Locknut 3/8in-16NC	
138	Not Used			
139	3340837	4	Pad, Wear	
140	1001148652	10	Pad, Wear	
141	3340940	2	Pad, Rubber	
142 to 147	Not Used			
148	3422996	1	Pin	
149	3572448	2	Plate, Clamp	
150	3760115	2	Ring, Retaining	
151 to 152	Not Used			
153	3900283	4	Screw, Button Head 3/8in-16NC x 3/4in	
154	3900316	4	Screw, Button Head 3/8in-16NC x 1in	
155	3951420	6	Setscrew 1/4in-20NC x 2-1/2in	
156	4071056	10	Shim (1mm)	
157	4071057	10	Shim (3mm)	
158	4711400	4	Flatwasher 1/4in Thin	
159	4711600	4	Flatwasher 3/8in Thin	
160 to 161	Not Used			
162	4846734	1	Tube, Carrier	
163 to 165	Not Used			
166	4891800	4	Flatwasher 1/2in Hardened	
167	Not Used			
168	3941406		Screw, Self-Tapping 1/4in x 3/4in	
169	Not Used			
170	4891600	4	Flatwasher 3/8in Hardened	

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FIGURE 3-7.ROTATOR ASSEMBLIES



SECTION 3 BOOM

FIGURE 3-7. ROTATOR ASSEMBLIES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	ROTATOR ASSEMBLIES	
	0060062	Ref	450A Series II	C
	0060050	Ref	450AJ Series II without Arctic Package	G
	0060096	Ref	450AJ Series II With Arctic Package	A
1	See Note	1	Case/Bracket Weldment (Note: Not Available - Purchase Complete Assembly)	
1A	Not Required	AR	Bushing Options: (Top) 0060062 Rotator	
	0962257	0	0060050 & 0060096 Rotators	
1B	Not Required	AR	Bushing Options: (Bottom) 0060062 Rotator	
	0961947	0	0060050 & 0060096 Rotators	
2		1	Shaft Options: 0060062 Rotator 0060050 Rotator 0060096 Rotator	
3	7017162			
	7017140			
	7017162			
3	7017163	1	Sleeve, Piston Options: 0060062 Rotator	
	7017139		0060050 Rotator	
	7017163		0060096 Rotator	
4	7017164	1	Cap, End Options: 0060062 Rotator	
	7017148		0060050 Rotator	
	7017164		0060096 Rotator	
5 to 6	Not Used			
7	See Note	1	Tie Rod Assembly	
		Ref	Note: See Platform Support Installation for Components.	
8	See Note	3	Bolt 1/4in-20NC (Grade 8) (Note: Not Available for Purchase)	
9	See Note	1	Seal, Cap (Note: Use Item 51)	
10	See Note	1	Ring, Back-Up Cap (Note: Use Item 51)	
11	See Note	1	Seal, Rod (Note: Use Item 51)	
12	See Note	1	Seal, Piston (Note: Use Item 51)	
13	See Note	2	Packing, Bearing (Note: Use Item 51)	
14	See Note	1	Bearing, Cap (Note: Use Item 52)	
15	See Note	1	Bearing, Shaft (Note: Use Item 52)	
16	See Note	2	Thrustwasher (Note: Use Item 52)	
17	7017172	1	Counterbalance Valve Assembly	
	7017192	2	Cartridge (No Seal Kit Available)	
18		2	Bushing Options: 0060062 Rotator	
	7017195		0060050 Rotator	
	7017136		0060096 Rotator (Note: Not Available for Purchase)	
19 to 50	See Note			
51	Not Used	1	Seal Kit Options: (Includes Items 9-13)	
	7017158		0060062 Rotator	
	7017137		0060050 Rotator	
	70000342		0060096 Rotator	

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FIGURE 3-7. ROTATOR ASSEMBLIES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
52	7017159 7017138 7017159	1	Bearing Kit Options: (Includes Items 14-16) 0060062 Rotator 0060050 Rotator 0060096 Rotator	
53	See Note	1	Hardware Kit Options: 0060050 Rotator (Note: Not Available for Purchase)	
54	7017142 70001697	4	0060062 & 0060096 Rotator Screw, Countersunk 1/4in-20NC x 3/8in (Grade 8)	

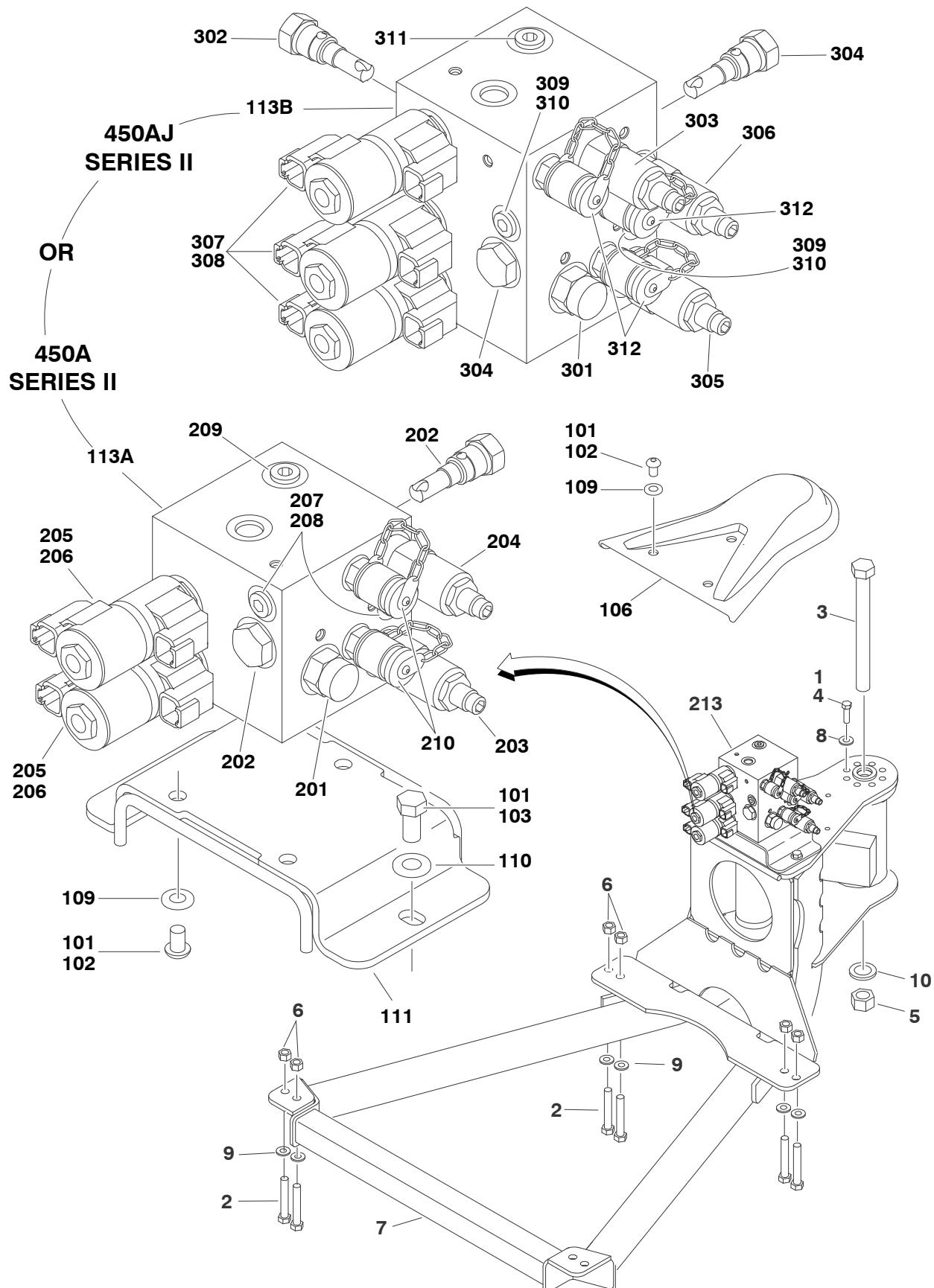
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FIGURE 3-7. ROTATOR ASSEMBLIES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 3-8.PLATFORM SUPPORT & CONTROL VALVES INSTALLATIONS



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FIGURE 3-8. PLATFORM SUPPORT & CONTROL VALVES INSTALLATIONS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	PLATFORM SUPPORT INSTALLATION	
	0272070	Ref	Machines without LSS	E
	See Note	Ref	Machines with LSS (Note: Refer to JLG Supplement p/n 3124287 for Components)	
1	0100011	AR	Compound, Locking	
2	0641812	8	Bolt 1/2in-13NC x 1-1/2in	
3	0642684	1	Bolt 1in-8NC x 10-1/2in	
4	0681608	8	Bolt 3/8in-16NC x 1in	
5	3300243	1	Locknut 1in-8NC	
6	3311805	8	Locknut 1/2in-13NC	
7	4846573	1	Support Weldment	
8	4891600	8	Flatwasher 3/8in Hardened	
9	4891800	8	Flatwasher 1/2in Hardened	
10	4892600	1	Flatwasher 1in Hardened	
		Ref	CONTROL VALVE INSTALLATIONS	
	1001141803	Ref	450A Series II	B
	1001141804	Ref	450AJ Series II	B
101	0100011	AR	Compound, Locking	
102	0630467	6	Screw, Button Head	
103	0641606	2	Bolt 3/8in-16NC x 3/4in	
104 to 105	Not Used			
106	1670964	1	Cover	
107 to 108	Not Used			
109	4711500	9	Flatwasher 5/16in Thin	
110	4711600	2	Flatwasher 3/8in Thin	
111	4846218	1	Plate, Valve Mounting	
112	Not Used			
113		1	Valve, Platform Options:	
113A	1001138950		450A Series II (See Items 201-210 for Breakdown)	
113B	1001138951		450AJ Series II (See Items 301-312 for Breakdown)	
	1001138950	Ref	PLATFORM VALVE ASSEMBLY (450A SERIES II)	B
201	7012989	1	Valve, Cartridge	
	7012953	1	Seal Kit - 7012989 Valve	
202	7012914	2	Valve, Pressure Control	
	7012918	2	Seal Kit - 7012914 Valve	
203	7023911	1	Valve, Relief	
	7012967	1	Seal Kit - 7023911 Valve	
204	7023912	1	Valve, Relief	
	7012967	1	Seal Kit - 7023912 Valve	
205	7017452	2	Valve, Solenoid	
	7017402	2	Seal Kit - 7017452 Valve	
206	70002386	4	Coil	
207	See Note	2	Orifice (Note: Not Available for Purchase)	
208	7017406	2	Plug	

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FIGURE 3-8. PLATFORM SUPPORT & CONTROL VALVES INSTALLATIONS

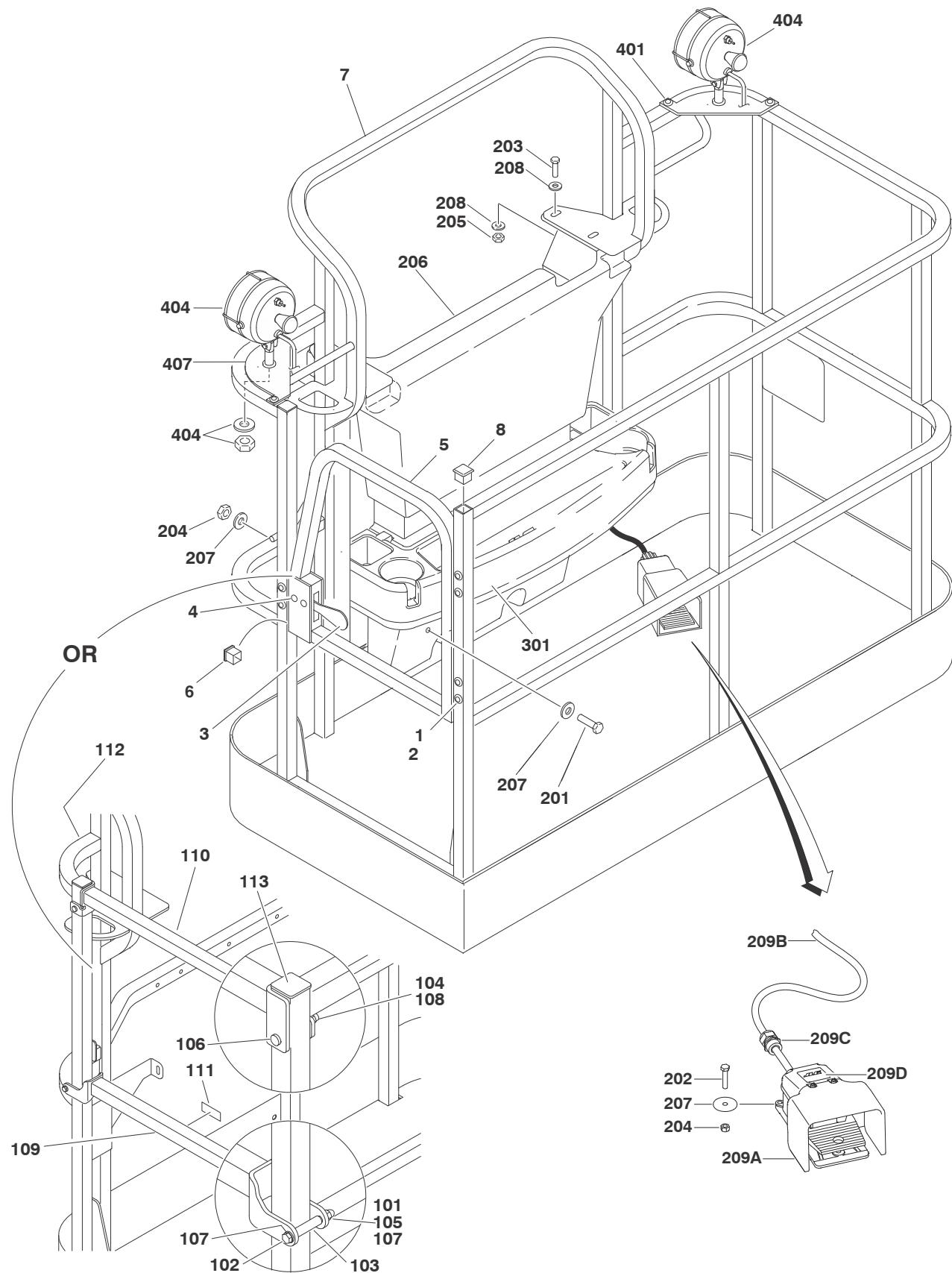
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
209	See Note	1	Plug (Note: Not Available for Purchase)	
210	2221086	2	Fitting, Diagnostic	
	1001138951	Ref	PLATFORM VALVE ASSEMBLY (450AJ SERIES II)	B
301	7012989	1	Valve, Cartridge	
	7012953	1	Seal Kit - 7012989 Valve	
302	7023984	1	Valve, Cartridge	
	7012953	1	Seal Kit - 7023984 Valve	
303	70003790	1	Valve, Cartridge	
	7021653	1	Seal Kit - 70003790 Valve	
304	7012914	2	Valve, Pressure Control	
	7012918	2	Seal Kit - 7012914 Valve	
305	7023911	1	Valve, Relief	
	7012967	1	Seal Kit - 7023911 Valve	
306	7023912	1	Valve, Relief	
	7012967	1	Seal Kit - 7023912 Valve	
307	7017452	2	Valve, Solenoid	
	7017402	2	Seal Kit - 7017452 Valve	
308	70002386	6	Coil	
309	See Note	2	Orifice (Note: Not Available for Purchase)	
310	7017406	2	Plug	
311	See Note	1	Plug (Note: Not Available for Purchase)	
312	2221086	3	Fitting, Diagnostic	

SECTION 4

PLATFORM

SECTION 4 PLATFORM

FIGURE 4-1.PLATFORM INSTALLATION



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FIGURE 4-1. PLATFORM INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	PLATFORM ASSEMBLY WITH GATE	
	1001144025	Ref	USA Built Machine Platforms	B
	1001144026	Ref	6ft (1.83m) with No Mesh	B
	1001144027	Ref	5ft (1.52m) with No Mesh	B
		Ref	4ft (1.22m) with No Mesh	B
		Ref	Romanian Built Machine Platforms	
	1001145407	Ref	6ft (1.83m) with No Mesh	B
	1001145409	Ref	5ft (1.52m) with No Mesh	B
	1001145411	Ref	4ft (1.22m) with No Mesh	B
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
			Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION.	
1	2080040	16	Fastener, Huck	
2	2600281	2	Hinge, Self-Closing	
3	2940074	1	Latch	
4	3820020	2	Rivet, Pop	
5	1001144629	1	Gate Weldment	
6		1	Cap-Plug Options:	
	3520072		USA Built Machines	
	1001152037		Romanian Built Machines	
7	See Note	1	Platform Weldment (Note: Not Available - Purchase Platform Assembly)	
8		2	Cap-Plug Options:	
	3520198		USA Built Machines	
	1001145781		Romanian Built Machines	
		Ref	PLATFORM ASSEMBLY WITH DROP-BAR	
		Ref	USA Built Machine Platforms	
	1001144020	Ref	6ft (1.83m) with No Mesh	B
	1001144019	Ref	5ft (1.52m) with No Mesh	B
	1001144018	Ref	4ft (1.22m) with No Mesh	B
		Ref	Romanian Built Machine Platforms	
	1001145406	Ref	6ft (1.83m) with No Mesh	B
	1001145408	Ref	5ft (1.52m) with No Mesh	B
	1001145410	Ref	4ft (1.22m) with No Mesh	B
		Ref	Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See SPECIAL OPTIONS SECTION for Mesh Installations.	
		Ref	Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION.	
101	0100011	AR	Compound, Locking	
102	0641418	2	Bolt 1/4in-20NC x 2-1/4in	
103	0961845	2	Bushing	
104	3290606	2	Nut M6	
105	3300151	2	Nut, Acorn	
106	4010618	2	Screw M6 x 50mm	

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FIGURE 4-1. PLATFORM INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
107	4711400	4	Flatwasher 1/4in	
108	4811700	2	Flatwasher M6	
109	1001138494	1	Bar, Drop	
110	1001138514	1	Rail (Top)	
111	1001140429	1	Decal - Drop-Bar	
112	See Note	1	Platform Weldment (Note: Note Available - Purchase Platform Assembly)	
113		2	Cap-Plug Options: USA Built Machines Romanian Built Machines	
	3520198			
	1001145781			
	1001143630	Ref	CONSOLE BOX & FOOTSWITCH INSTALLATION	A
201	0641406	2	Bolt 1/4in-20NC x 3/4in	
202	0641408	3	Bolt 1/4in-20NC x 1in	
203	0641610	4	Bolt 3/8in-16NC x 1-1/4in	
204	3311405	5	Locknut 1/4in-20NC	
205	3311605	4	Locknut 3/8in-16NC	
206	3380434	1	Panel, Decal Mount	
207	4740362	1	Washer, Fender 1/4in	
208	4751600	8	Flatwasher 3/8in Regular	
209	1001139202	1	Platform Console Assembly (Not Shown) (See PLATFORM CONSOLE ASSEMBLY for Breakdown)	
209A	1001117174	1	Footswitch Assembly (Includes Footswitch & Items 209B-209E)	B
	70002902	1	Block, Contact	
	70002903	1	Gasket	
	70002905	1	Cover	
	70002904	1	Bolt Kit - Cover	
209B	1060918	7.5ft/2.3m	Cable, Electrical - 18/3	
209C	4460071	1	Connector, Strain Relief	
209D	4460464	1	Pin, Male (Not Shown)	
209E	4460226	2	Socket, Female (Not Shown)	
		Ref	TRAY INSTALLATIONS (OPTIONAL)	
301	1580012	1	Tray, Storage (Center)	
	0273495	Ref	WORKLIGHTS INSTALLATIONS (OPTIONAL)	E
401	2080040	4	Fastener, Huck	
402 to 403	Not Used			
404	2920140	2	Worklight	
	7016399	2	Bulb, Replacement (1 Per Worklight)	
405 to 406	Not Used			
407	3536089	2	Plate, Mounting	
408 to 412	Not Used			
413	4460426	1	Connector, Strain Relief (Not Shown - Located at Console Box)	
414 to 416	Not Used			
417	2820035	9	Loom, Vinyl (Not Shown)	

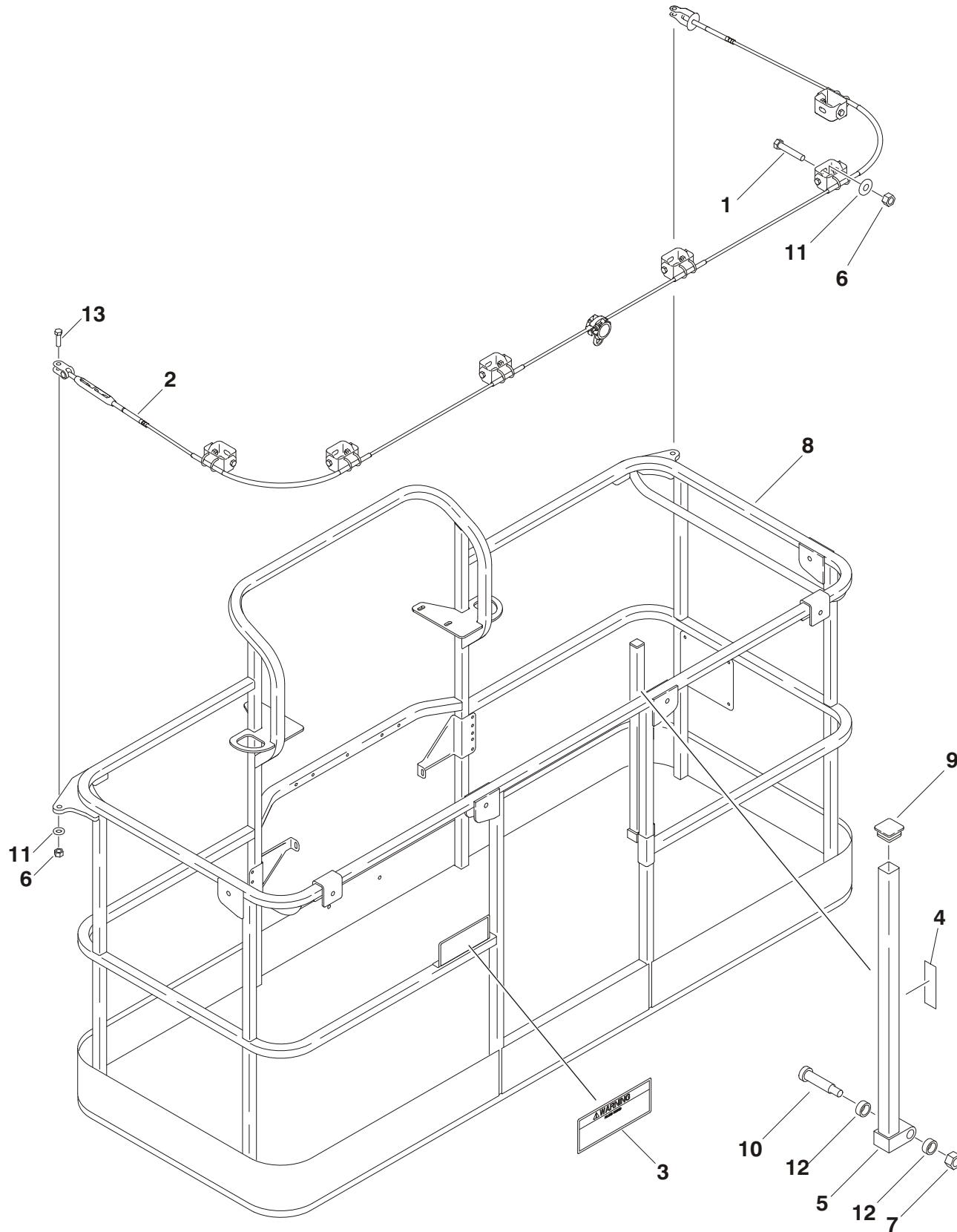
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FIGURE 4-1. PLATFORM INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
418	4240099	10	Tie-Strap (Not Shown)	

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FIGURE 4-2. FALL ARREST PLATFORM COMPONENTS INSTALLATION (OPTIONAL)



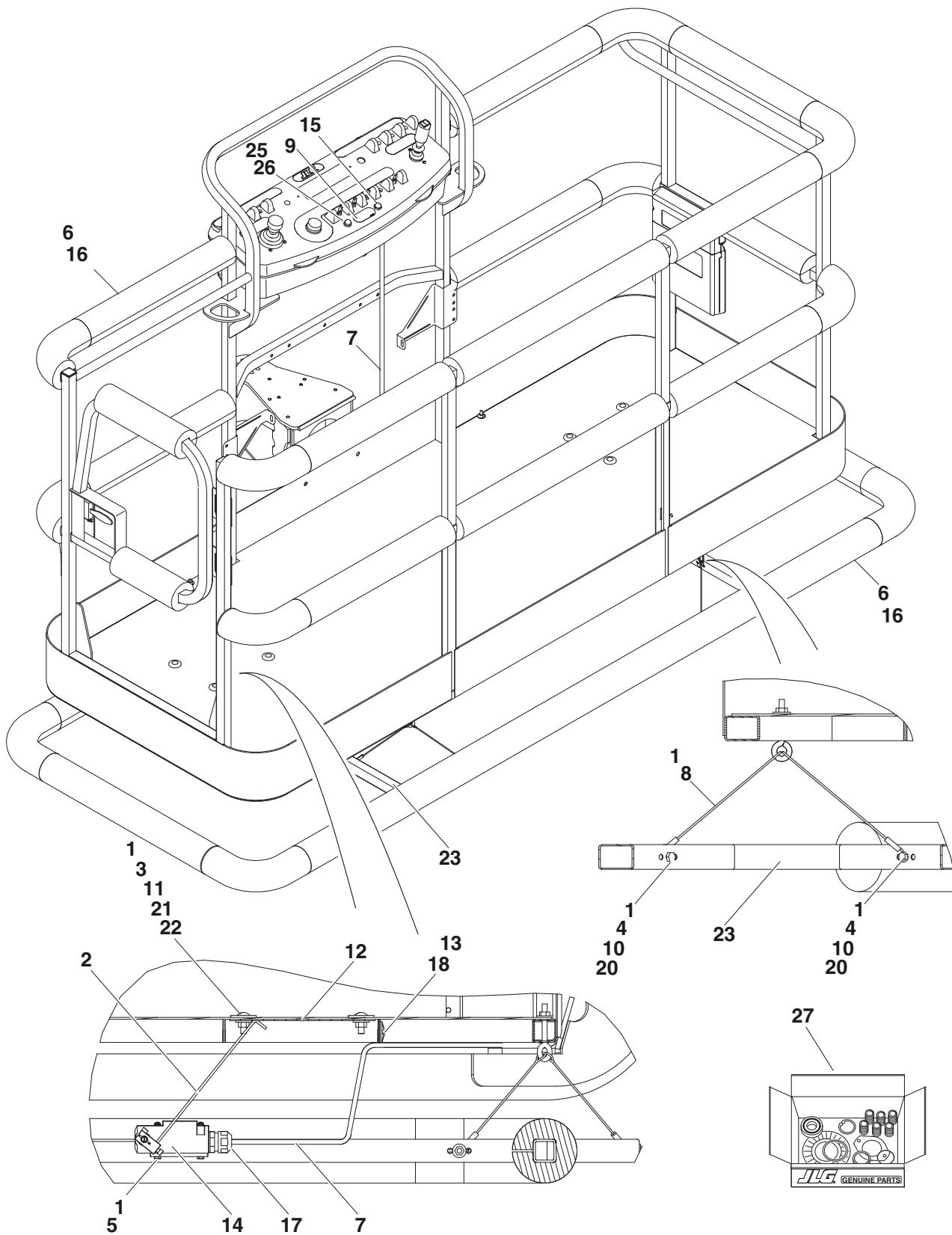
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FIGURE 4-2. FALL ARREST PLATFORM COMPONENTS INSTALLATION (OPTIONAL)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	PLATFORM ASSEMBLY (FALL ARREST)	
	3510884	Ref	450A Series II	E
	1001112103	Ref	450AJ Series II	A
		Ref	Note: Only Available on ANSI & CSA Specs.	
1	0681822	4	Bolt 1/2in-13NC x 2-3/4in (Grade 8)	
2	1060919	1	Cable, Fall Arrest Options: 450A Series II 450AJ Series II	
3	1001112943			
3	1705014	1	Decal - Safety	
4	1706385	1	Decal - Drop Bar	
5	2410014	1	Gate Weldment	
6	3271805	6	Locknut 1/2in-13NC (Grade 8)	
7	3311605	1	Locknut 3/8in-16NC	
8	See Note	1	Platform Weldment (Note: Purchase Platform Assembly)	
9	3520072	1	Cap-Plug	
10	3900054	1	Bolt 1/2in-13NC x 1-3/4in	
11	4751800	8	Flatwasher 1/2in Regular	
12	0962270	2	Bearing, Oilite	
13	0681814	4	Bolt 1/2in-13NC x 1-3/4in (Grade 8)	

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FIGURE 4-3.SOFT TOUCH SYSTEM INSTALLATION (OPTIONAL)



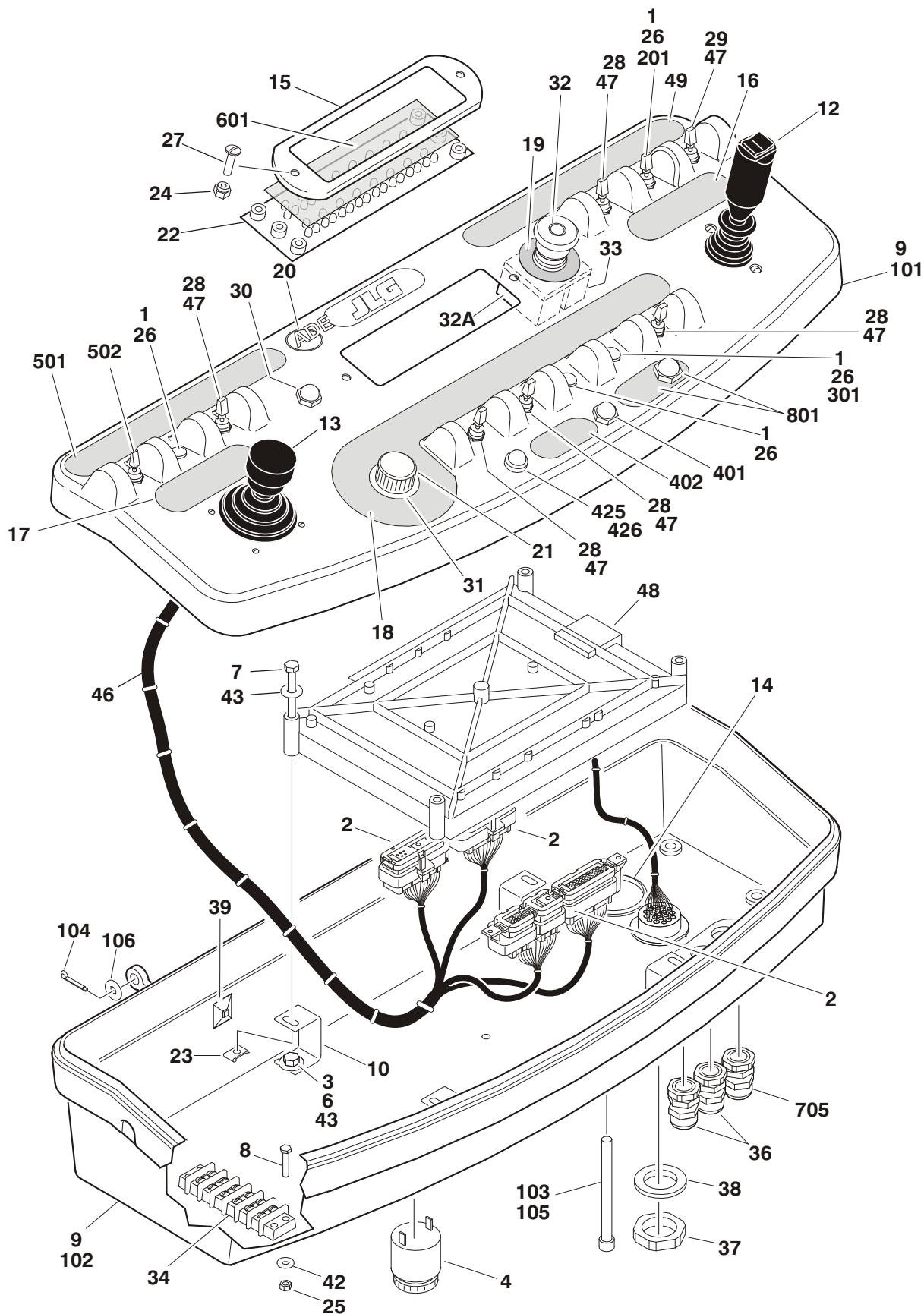
SECTION 4 PLATFORM

FIGURE 4-3. SOFT TOUCH SYSTEM INSTALLATION (OPTIONAL)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	SOFT TOUCH SYSTEM INSTALLATION	
	0274240	Ref	2.5ft/.7m x 6ft/1.83m Platform	C
	1001115639	Ref	2.5ft/.7m x 5ft/1.52m Fall Arrest Platform (Not Shown)	A
	1001108256	Ref	3ft/.9m x 6ft/1.83m Fall Arrest Platform (Not Shown)	A
		Ref	Note: Fall Arrest Platforms available on ANSI, ANSI Export & CSA Specs Only.	
1	0100011	AR	Compound, Locking	
2	0200048	2	Arm, Switch Activator	
3	0630462	8	Bolt, Carriage	
4	0641414	8	Bolt 1/4in-20NC x 1-3/4in	
5	0721005	4	Screw #10-32NF x 5/8in	
6	See Note	AR	Bumper, Soft Touch (Note: Use Item 27)	
7	1060341	AR	Cable, Control - 16/2 Options: 15ft/4.6m 15ft/4.6m 22.7ft/6.9m	
8	1060903	4	2.5ft/.7m x 6ft/1.83m Platform	
9	1702938	1	2.5ft/.7m x 5ft/1.52m Platform	
10	3311401	8	3ft/.9m x 6ft/1.83mm Platform	
11	3311501	8	Wire Rope & Eyebolt Assembly	
12		2	Decal, Soft Touch Override	
	3575705		Nut 1/4in-20NC	
	3575705		Nut 5/16in-18NC	
	3575359		Plate, Switch Strike Options: 3575705 3575705 3575359	
13	4240099	1	2.5ft/.7m x 6ft/1.83mm Platform	
14	4360057	2	2.5ft/.7m x 5ft/1.52mm Fall Arrest Platform	
15	4360387	1	3ft/.9m x 6ft/1.83mm Fall Arrest Platform	
16	4420068	1	Tie, Wire	
17	4460049	2	Switch, Limit	
18	4460234	2	Switch, Yellow Push Button	
19	4460425	1	Tape, Yellow Adhesive	
20	4751400	16	Connector, Strain Relief	
21	4751500	8	Terminal, Mount Cable Tie	
22	4751800	8	Terminal, Strain Relief (Not Shown)	
23		1	Flatwasher 1/4in Regular	
	4846370		Flatwasher 5/16in Regular	
	1001115641		Flatwasher 1/2in Regular	
	3641569		Weldment, Soft Touch Rail Options: 4846370 1001115641 3641569	
24	Not Used		2.5ft/.7m x 6ft/1.83mm Platform	
25	2920028	1	2.5ft/.7m x 5ft/1.52mm Fall Arrest Platform	
26	2920029	1	3ft/.9m x 6ft/1.83mm Fall Arrest Platform	
27		1	Lamp, Indicator	
	0940167		Bulb, Light	
	1001115848		Bumper Kit Options (Includes Corners & Enough Straight Material for One Platform):	
	0940177		2.5ft/.7m x 6ft/1.83mm Platform	
			2.5ft/.7m x 5ft/1.52mm Fall Arrest Platform	
			3ft/.9m x 6ft/1.83mm Fall Arrest Platform	

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FIGURE 4-4.PLATFORM CONSOLE ASSEMBLY



SECTION 4 PLATFORM

FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001139202	Ref	PLATFORM CONSOLE ASSEMBLY	B
1	0100009	AR	Sealant	
2	0100048	AR	Grease, Dielectric	
3	0100081	AR	Adhesive #454	
4	0140011	1	Alarm	
5	Not Used			
6	0641406	4	Bolt 1/4in-20NC x 3/4in	
7	0641414	4	Bolt 1/4in-20NC x 1-3/4in	
8	0721006	2	Screw, Machine #10-24NC x 3/4in	
9	0861441	1	Box, Console (See Items 101-106 for Breakdown)	
10	0902751	4	Bracket, Support	
11	Not Used			
12	1001118416	1	Controller Assembly (Drive & Steer) (See CONTROLLER ASSEMBLY (DRIVE & STEER) for Breakdown)	
13	Use 1001129555	1	Controller Assembly (Lift & Swing) (See CONTROLLER ASSEMBLY (LIFT & SWING) for Breakdown) (was p/n 1001118417)	
14	1001110434	1	Cover	
15	1671176	1	Bezel	
16	1702565	1	Decal (Drive and Steer)	
17	1702566	1	Decal (Lift and Swing)	
18	1702567	1	Decal (Function Speed)	
19	1704260	1	Decal - EMS	
20	1705132	1	Decal - ADE Control	
21	2560136	1	Handle, Knob	
22	2920154	1	Panel, LED Light	
23	3300353	4	Nut, Tinneman	
24	3300408	2	Insert, Nylon	
25	3311005	2	Locknut #10-24NC	
26	3520054	4	Plug, Hole	
27	3911018	2	Screw, Machine #10-24NC x 1-1/8in	
28	4360328	5	Switch, Toggle	
29	4360330	1	Switch, Toggle	
30	4360387	1	Switch, Pushbutton	
31	4360407	1	Controller, Speed	
	See Note	1	Gasket "Top Hat" (Included with Switch) (Note: Not Available - Purchase Complete Controller.)	
	70003784	1	Seal	
32	4360475	1	Switch, Emergency Stop	
	7020175	1	Cap, Red	
32A	7020176	1	Contact Block	
33	4360476	1	Block, Contact	
34	4460007	1	Bussbar	
35	4460234	3	Base, Tie-Strap Mounting (Not Shown - Located on Item 101)	
36	4460428	2	Connector, Strain Relief	
37	4460470	1	Nut, Terminal	
38	4460471	1	Lockwasher, Terminal	
39	4460488	1	Base, Mounting	
40	4460708	2	Receptacle - 15 Position (Not Shown)	

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FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
41	4460905	5	Seal, Plug (Not Shown) (USA Built Machines SN 0300160835 to SN 0300177675 & Romanian Built Machines SN B300001114 to SN E300001356)	
42	4751000	2	Flatwasher #10 Regular	
43	4751400	8	Flatwasher 1/4in Regular	
44	1001139135	1	Harness, Upper Valve (Not Shown - See ELECTRICAL SECTION for Breakdown)	
45	4922666	1	Harness, Analyzer Cable (Not Shown - See ELECTRICAL SECTION for Breakdown)	
46	1001107007	1	Harness, Platform Box (See ELECTRICAL SECTION for Breakdown)	
47	3790012	6	O-Ring	
48	1001106938	1	Controller, Module (Re-calibration Required When Replaced):	
49	1001131168	1	Decal (Stop)	
	1001119559	1	----- Decal Kit Options (Includes Items 16-20, 49, 501, & 601):	
	0861441	Ref	CONSOLE BOX ASSEMBLY	F
101	Use 0861441	1	Console Top (Note: Not Available for Purchase)	
102	Use 0861441	1	Console Bottom (Note: Not Available for Purchase)	
103	3311601	1	Nut 3/8in-16NC	
104	3470003	2	Hair, Pin	
105	0630568	1	Screw 3/8in-16NC x 4-1/2in	
106	4711500	2	Flatwasher 5/16in Thin	
		Ref	DUAL FUEL SWITCH INSTALLATION (GM ENGINE MACHINES ONLY)	
201	4360336	1	Switch, Toggle	
	3790012	1	O-Ring	
	0271340	Ref	JIB SWITCH INSTALLATION (450AJ SERIES II ONLY)	1/A
301	4360328	1	Switch, Toggle	
	3790012	1	O-Ring	
		Ref	SOFT TOUCH SYSTEM COMPONENTS	
401	4360387	1	Switch, Pushbutton	
402	1702938	1	Decal - Soft Touch Override	
403 to 424	Not Used			
425	2920028	1	Lamp, Indicator	
426	2920029	1	Bulb, Light	
		Ref	DRIVE SWITCH INSTALLATION (FROM WHEEL DRIVE INSTALLATIONS)	
501	1702676	1	Decal	
502	4360331		Switch, Toggle	
	3790012		O-Ring	

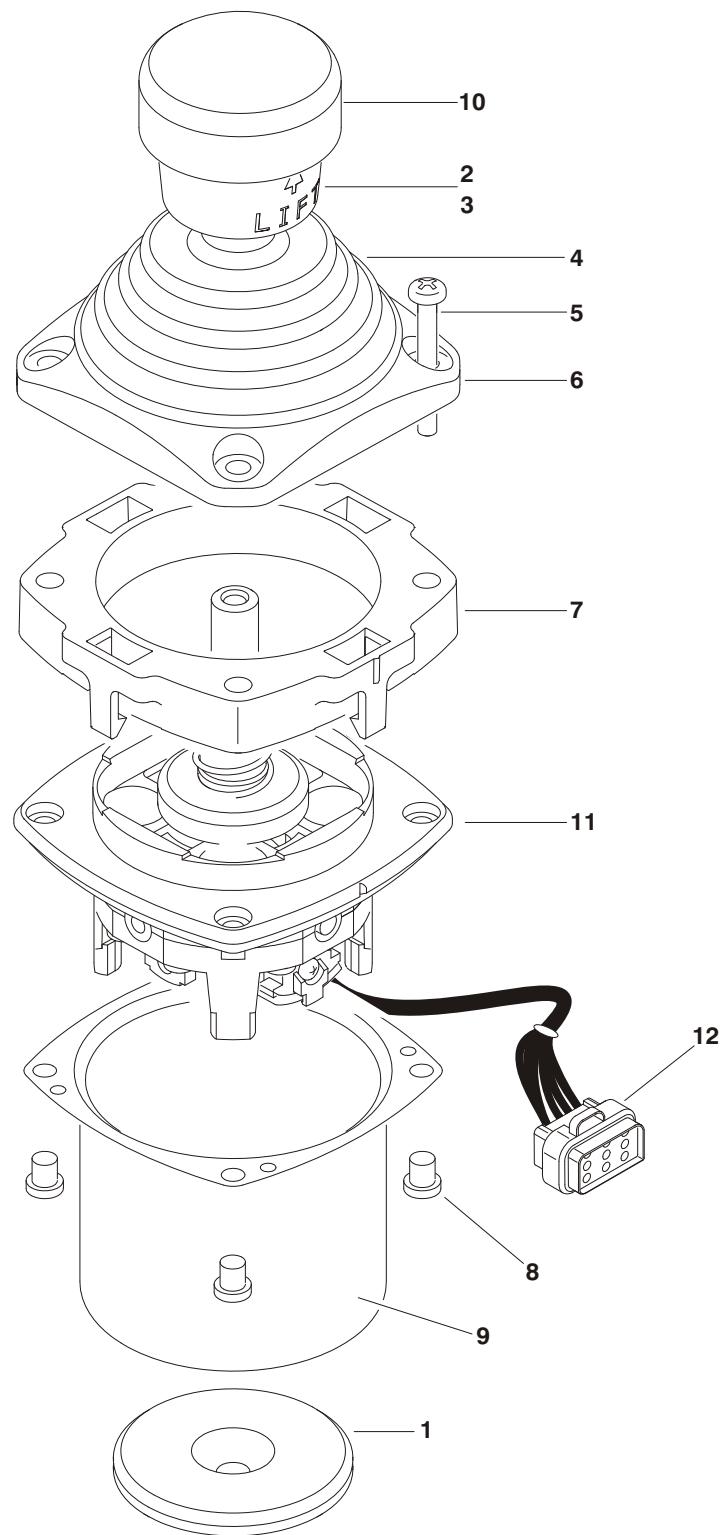
SECTION 4 PLATFORM

FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001108994	Ref	LIGHT PANEL DECAL INSTALLATIONS	A
601	1001107853	1	Decal - Display	
	0273495	Ref	PLATFORM WORKLIGHT INSTALLATION (OPTIONAL)	D
701 to 704	Not Used			
705	4460426	1	Connector, Strain Relief	
		Ref	LIGHT COMPONENTS (OPTIONAL)	
801	4360522		Switch, Pushbutton	
	1705170		Decal, Lights	

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FIGURE 4-5.CONTROLLER ASSEMBLY (LIFT AND SWING)



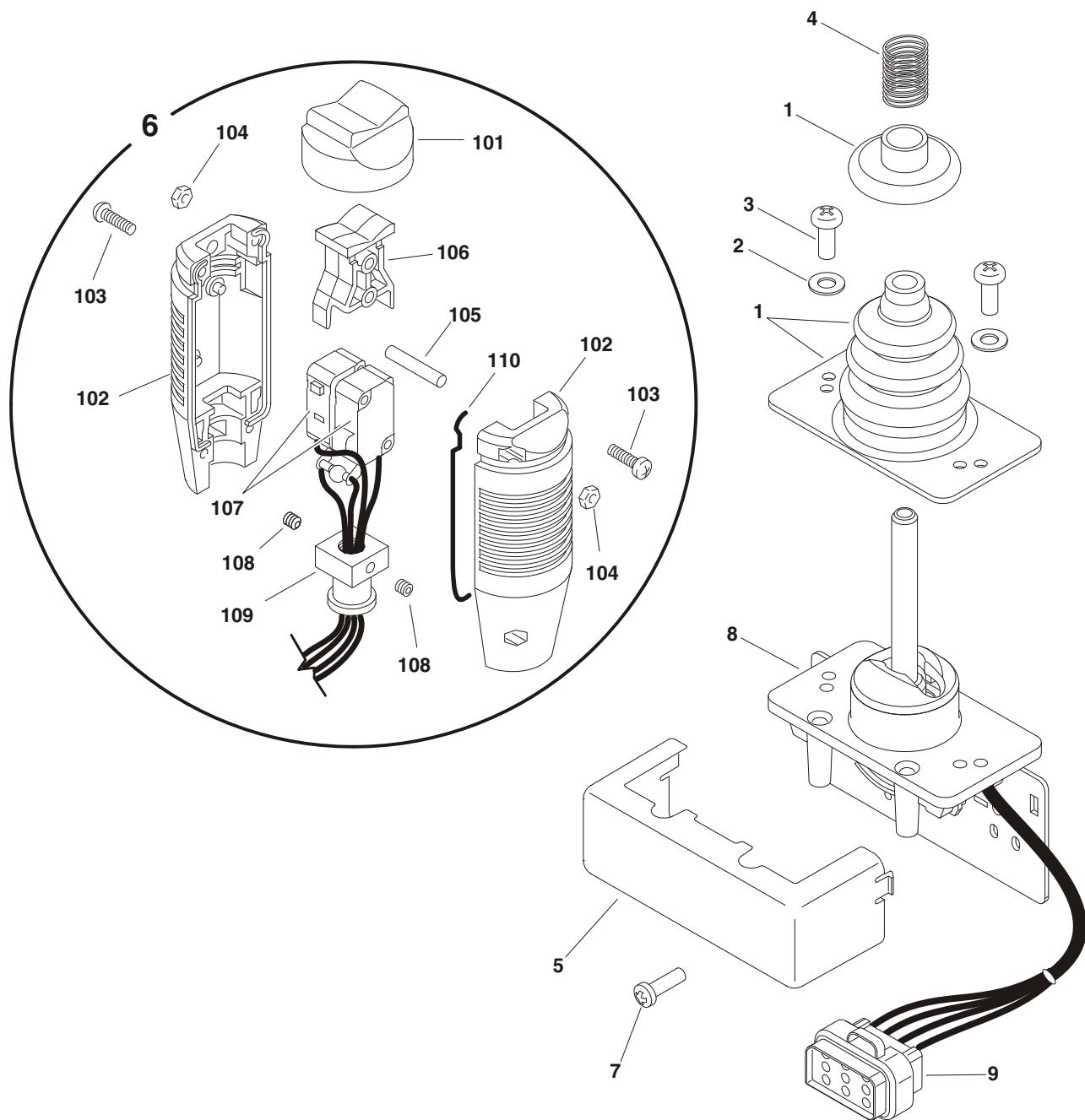
SECTION 4 PLATFORM

FIGURE 4-5. CONTROLLER ASSEMBLY (LIFT AND SWING)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001129555	Ref	CONTROLLER ASSEMBLY	
		Ref	Note: Was p/n 1001118417 Assembly - Use p/n 1001129555 kit as replacement.	C
1	70002730	1	Gasket	
2	7003928	1	Spring	
3	7022808	1	Cap, Lift	
4	70002731	1	Boot	
5	70002732	4	Screw	
6	7022815	1	Bezel	
7	70002733	1	Adapter	
8	70002734	4	Screw	
9	70002735	1	Can, Enclosure	
10	70002906	1	Cap	
11	Use 1001129555	1	Mechanical Assembly (Note: Not Available for Purchase)	
12	7022819	1	Plug, Male 8 Position (Natural) (Not Shown)	
	4460871	6	Socket, Female	

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FIGURE 4-6.CONTROLLER ASSEMBLY (DRIVE & STEER)



SECTION 4 PLATFORM

FIGURE 4-6. CONTROLLER ASSEMBLY (DRIVE & STEER)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001118416	Ref	CONTROLLER ASSEMBLY	B
1	70002724	1	Boot & Control Lock Assembly	
2	7003941	2	Washer	
3	70002725	2	Screw	
4	7019162	1	Spring	
5	70002726	1	Enclosure	
6	70002727	1	Handle Assembly (See Items 101-110 for Breakdown)	
7	70002728	1	Screw	
8	Use 1001118416	1	Mechanical Assembly (Note: Not Available for Purchase)	
9	1001113961	1	Plug, Male - 8 Position (Black)	
	4460871	7	Socket, Female	
	70002727	Ref	HANDLE ASSEMBLY	
101	7003972	1	Boot, Switch	
102	7003973	2	Half, Handle	
103	7003980	4	Screw	
104	7019167	4	Nut	
105	7019164	1	Axle	
106	7019165	1	Rocker	
107	70002729	1	Wiring Assembly	
	7003982	2	Switch, Micro	
108	7003983	2	Setscrew	
109	7019194	1	Coupling	
110	7003989	2	Gasket	

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FIGURE 4-6. CONTROLLER ASSEMBLY (DRIVE & STEER) (CONTINUED)

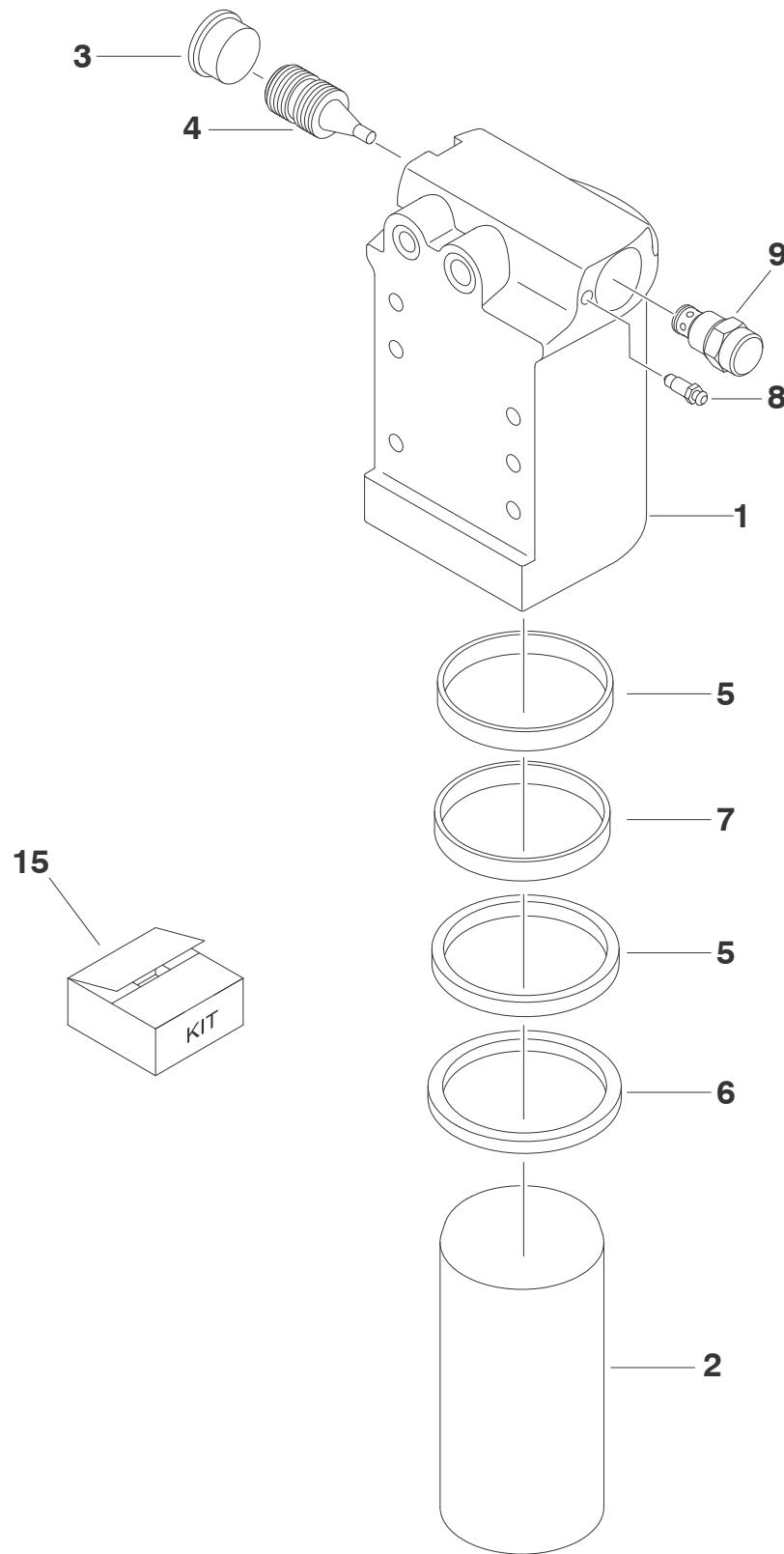
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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CYLINDER

SECTION 5 CYLINDER

FIGURE 5-1. USA BUILT MACHINES/AXLE LOCKOUT CYLINDER



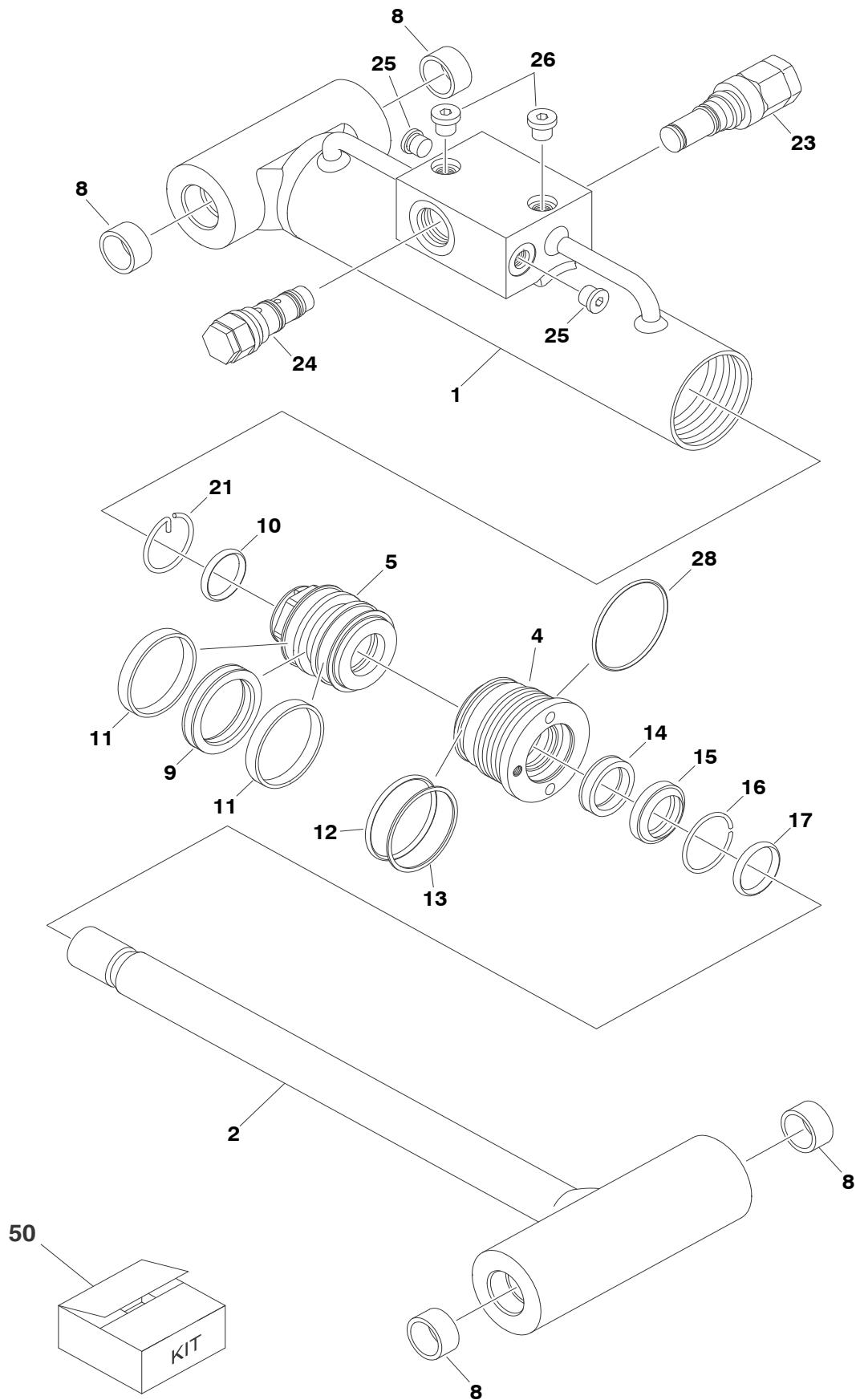
SECTION 5 CYLINDER

FIGURE 5-1. USA BUILT MACHINES/AXLE LOCKOUT CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684465	Ref	AXLE LOCKOUT CYLINDER ASSEMBLY	G
1	0370026	1	Barrel	
2	1684290	1	Rod	
3	2220890	1	Plug	
4	3480288	1	Piston, Pilot	
5	Use 2902266	2	Ring, Wear	
6	Use 2902266	1	Wiper	
7	Use 2902266	1	Seal, Rod	
8	4640858	1	Bleeder	
9	4641390	1	Cartridge, Valve	
	7017496	1	Seal Kit	
10 to 14	Not Used			
15	2902266	1	Seal Kit, Cylinder (Includes Items 5-7)	

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FIGURE 5-2. USA BUILT MACHINES/LEVEL (PLATFORM SLAVE) CYLINDER (450A SERIES II)



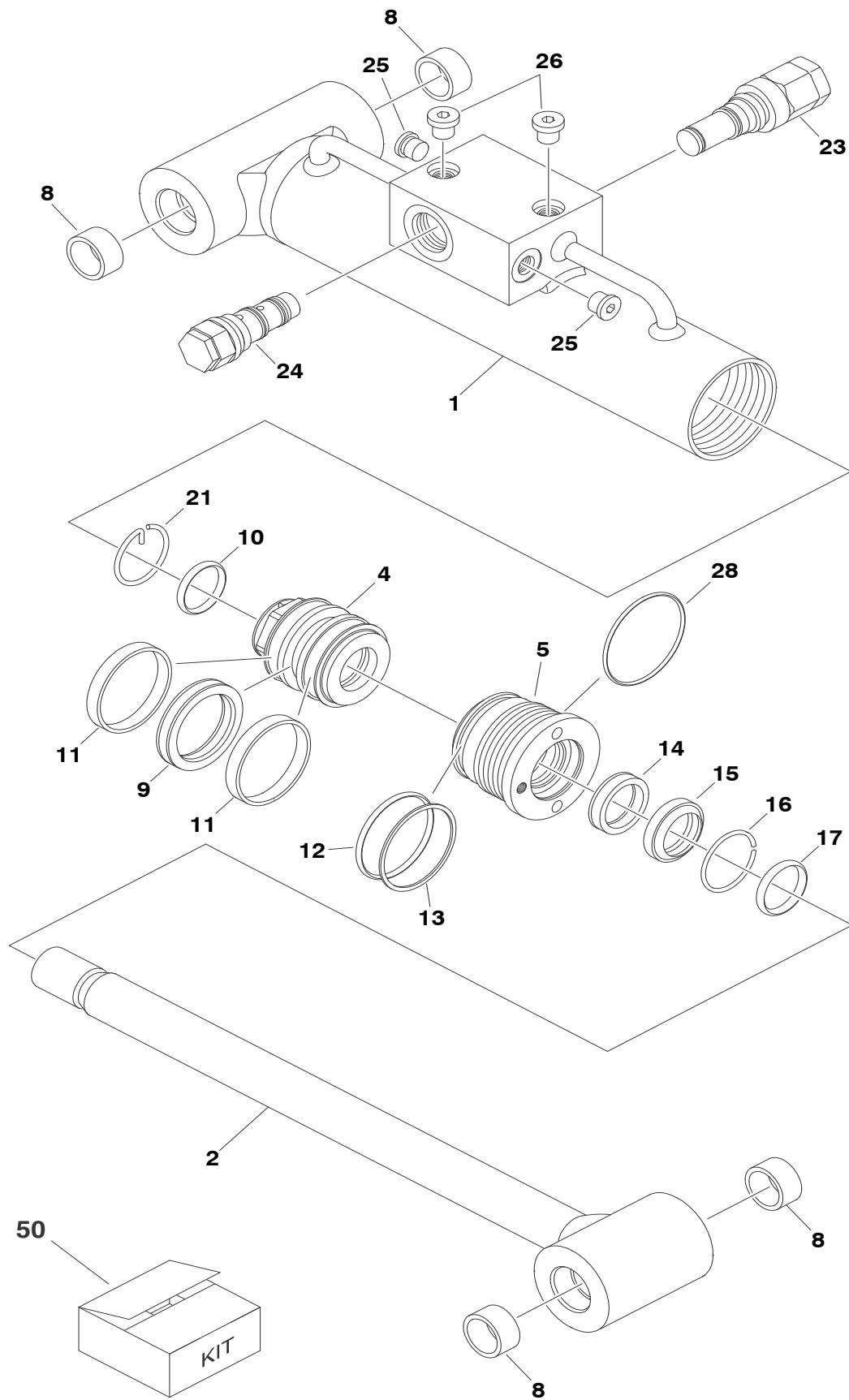
SECTION 5 CYLINDER

FIGURE 5-2. USA BUILT MACHINES/LEVEL (PLATFORM SLAVE) CYLINDER (450A SERIES II)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001140274	Ref	LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (450A SERIES II)	B
1	70003812	1	Barrel	
2	70003813	1	Rod	
3	Not Used			
4	70003809	1	Head	
5	70003810	1	Piston	
6 to 7	Not Used			
8	0961947	4	Bushing	
9	Use 70003814	1	Seal	
10	Use 70003814	1	O-Ring	
11	Use 70003814	2	Ring, Wear	
12	Use 70003814	1	O-Ring	
13	Use 70003814	1	Ring, Back-up	
14	Use 70003814	1	Seal	
15	Use 70003814	1	Wiper	
16	70002217	1	Ring, Retaining	
17	7026084	1	O-Ring	
18 to 20	Not Used			
21	70002216	1	Retainer	
22	Not Used			
23	4640932	1	Cartridge, Counterbalance Valve	
	7011112	1	Seal Kit - 4640932 Valve	
24	4641086	1	Cartridge, Counterbalance Valve	
	2900792	1	Seal Kit - 4641086 Valve	
25	7024844	2	Plug	
26	See Note	2	Plug (Note: Not Available for Purchase)	
27	Not Used			
28	Use 70003814	1	O-Ring	
29 to 49	Not Used			
50	70003814	1	Seal Kit (Includes Items 9-15 & 28)	

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FIGURE 5-3. USA BUILT MACHINES/LEVEL (PLATFORM SLAVE) CYLINDER (450AJ SERIES II WITHOUT ARCTIC PACKAGE)



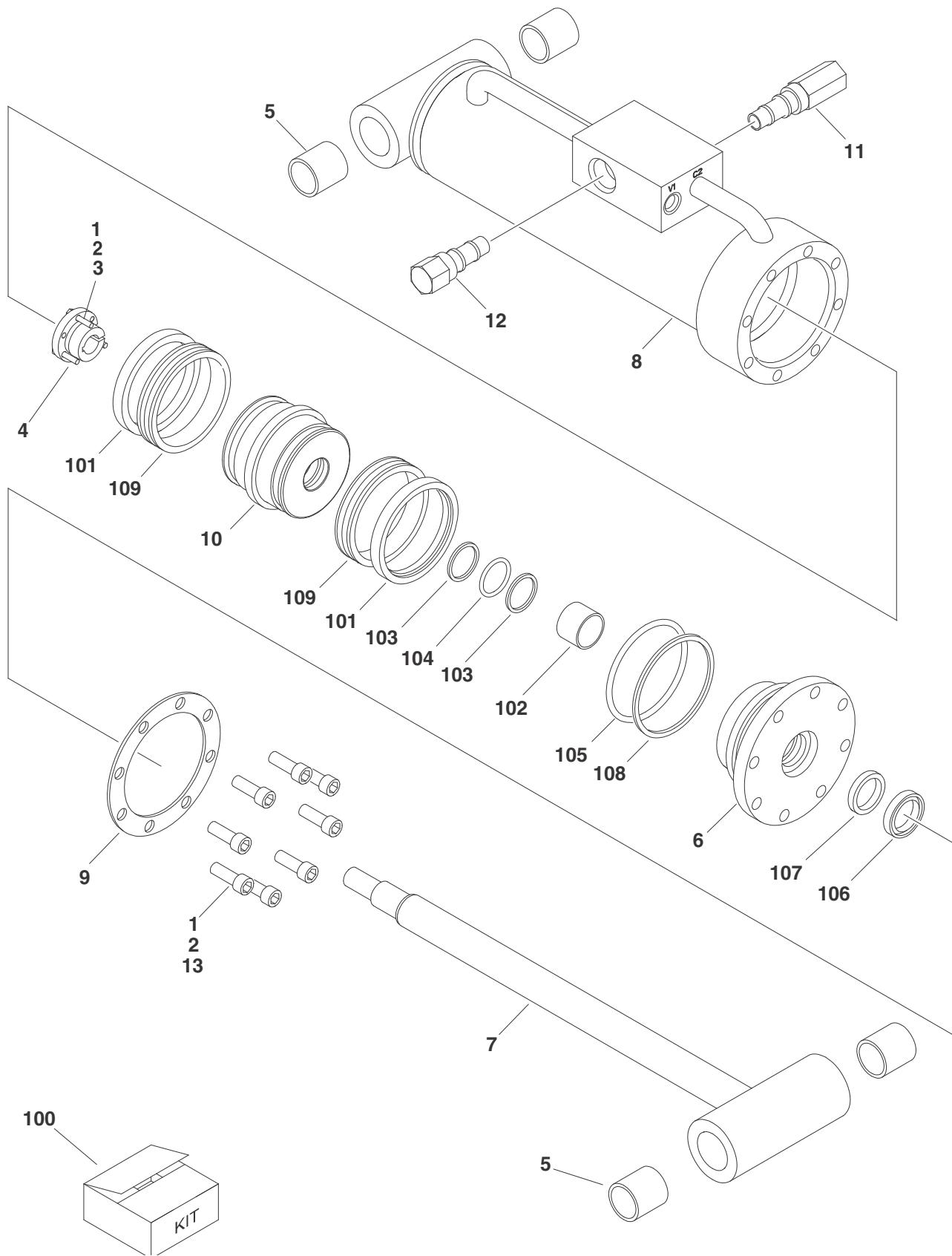
SECTION 5 CYLINDER

FIGURE 5-3. USA BUILT MACHINES/LEVEL (PLATFORM SLAVE) CYLINDER (450AJ SERIES II WITHOUT ARCTIC PACKAGE)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001140279	Ref	LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (450AJ SERIES II WITHOUT ARCTIC PACKAGE)	A
1	70003846	1	Barrel	
2	70003847	1	Rod	
3	Not Used			
4	70003819	1	Piston	
5	7026082	1	Head	
6 to 7	Not Used			
8	0961951	4	Bushing	
9	Use 70003845	1	Seal	
10	Use 70003845	1	O-Ring	
11	Use 70003845	2	Ring, Wear	
12	Use 70003845	1	O-Ring	
13	Use 70003845	1	Ring, Back-up	
14	Use 70003845	1	Seal	
15	Use 70003845	1	Wiper	
16	70002217	1	Ring, Retaining	
17	7026084	1	O-Ring	
18 to 20	Not Used			
21	70002216	1	Retainer	
22	Not Used			
23	4640932	1	Cartridge, Counterbalance Valve	
	7011112	1	Seal Kit - 4640932 Valve	
24	4641086	1	Cartridge, Counterbalance Valve	
	2900792	1	Seal Kit - 4641086 Valve	
25	7024844	2	Plug	
26	See Note	2	Plug (Note: Not Available for Purchase)	
27	Not Used			
28	Use 70003845	1	O-Ring	
29 to 49	Not Used			
50	70003845	1	Seal Kit (Includes Items 9-15 & 28)	

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FIGURE 5-4. USA BUILT MACHINES/ LEVEL (PLATFORM SLAVE) CYLINDER (450AJ SERIES II WITH ARCTIC PACKAGE)



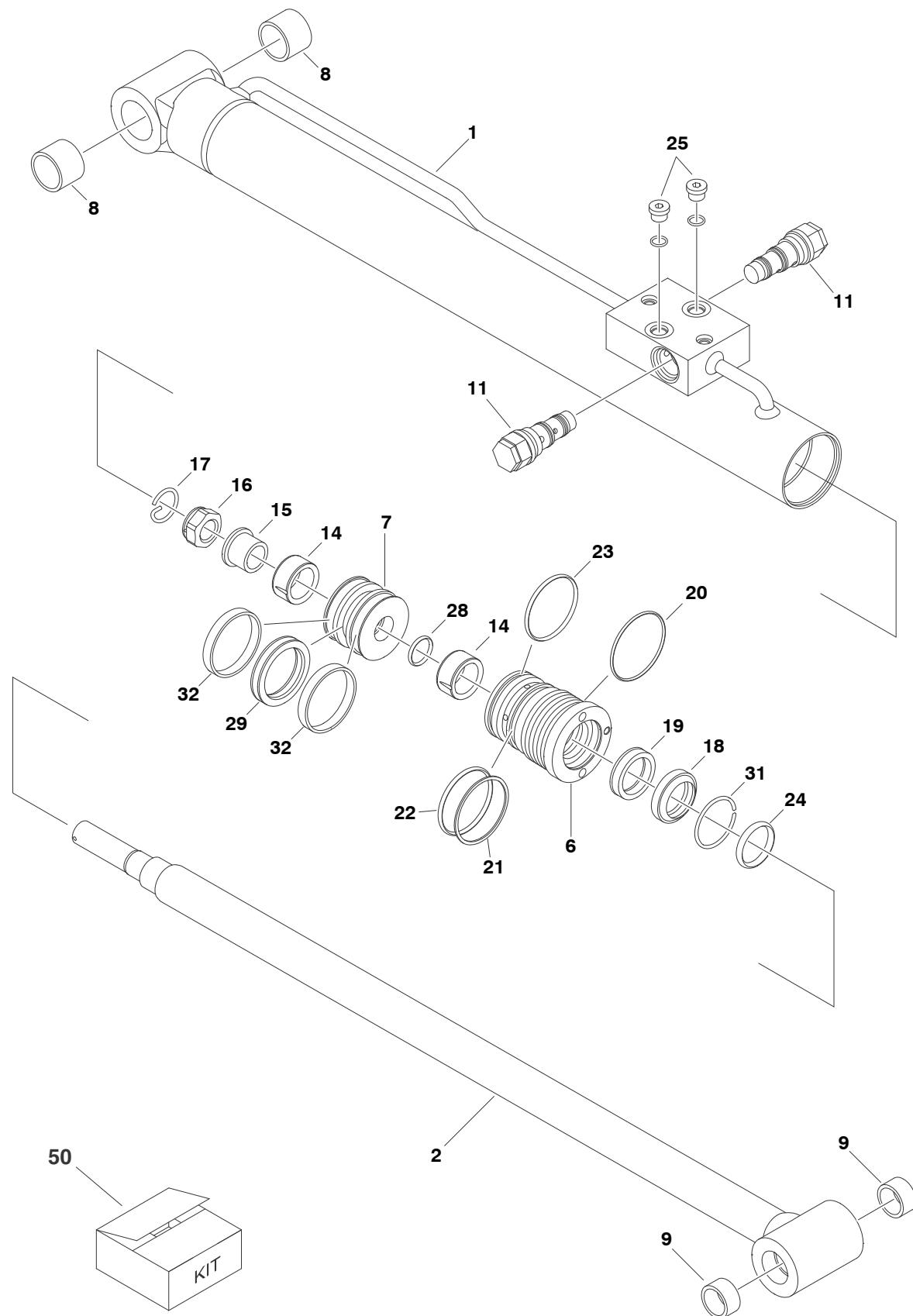
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FIGURE 5-4. USA BUILT MACHINES/ LEVEL (PLATFORM SLAVE) CYLINDER (450AJ SERIES II WITH ARCTIC PACKAGE)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001138815	Ref	LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (450AJ WITH ARCTIC PACKAGE)	A
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
3	0630534	3	Bolt, Socket Head #10-24NC x 1in	
4	0962185	1	Tapered Bushing	
5	0961951	4	Bushing, Garmax	
6	1683052	1	Head	
7	1683759	1	Rod	
8	1683761	1	Barrel	
9	3760368	1	Washer, Ring	
10	3480247	1	Piston	
11	4640932	1	Cartridge, Valve (Counterbalance Vented)	
	7011112	1	Seal Kit - 4640932 Valve	
12	4641086	1	Cartridge, Valve (Counterbalance Nonvented)	
	2900792	1	Seal Kit - 4641086 Valve	
13	3931516	8	Bolt, Socket Head 5/16in-18NC x 1in	
14 to 99	Not Used			
100	1001138818	1	Seal Kit, Cylinder (Includes Items 101-109)	
101	Use 1001138818	2	Ring, Lock	
102	Use 1001138818	1	Ring, Wear	
103	Use 1001138818	2	Ring, Back-Up	
104	Use 1001138818	1	O-Ring	
105	Use 1001138818	1	O-Ring	
106	Use 1001138818	1	Wiper	
107	Use 1001138818	1	Seal	
108	Use 1001138818	1	Ring, Back-Up	
109	Use 1001138818	2	Seal	

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FIGURE 5-5. USA BUILT MACHINES/LIFT (JIB) CYLINDER (450AJ SERIES II WITHOUT ARCTIC PACKAGE)



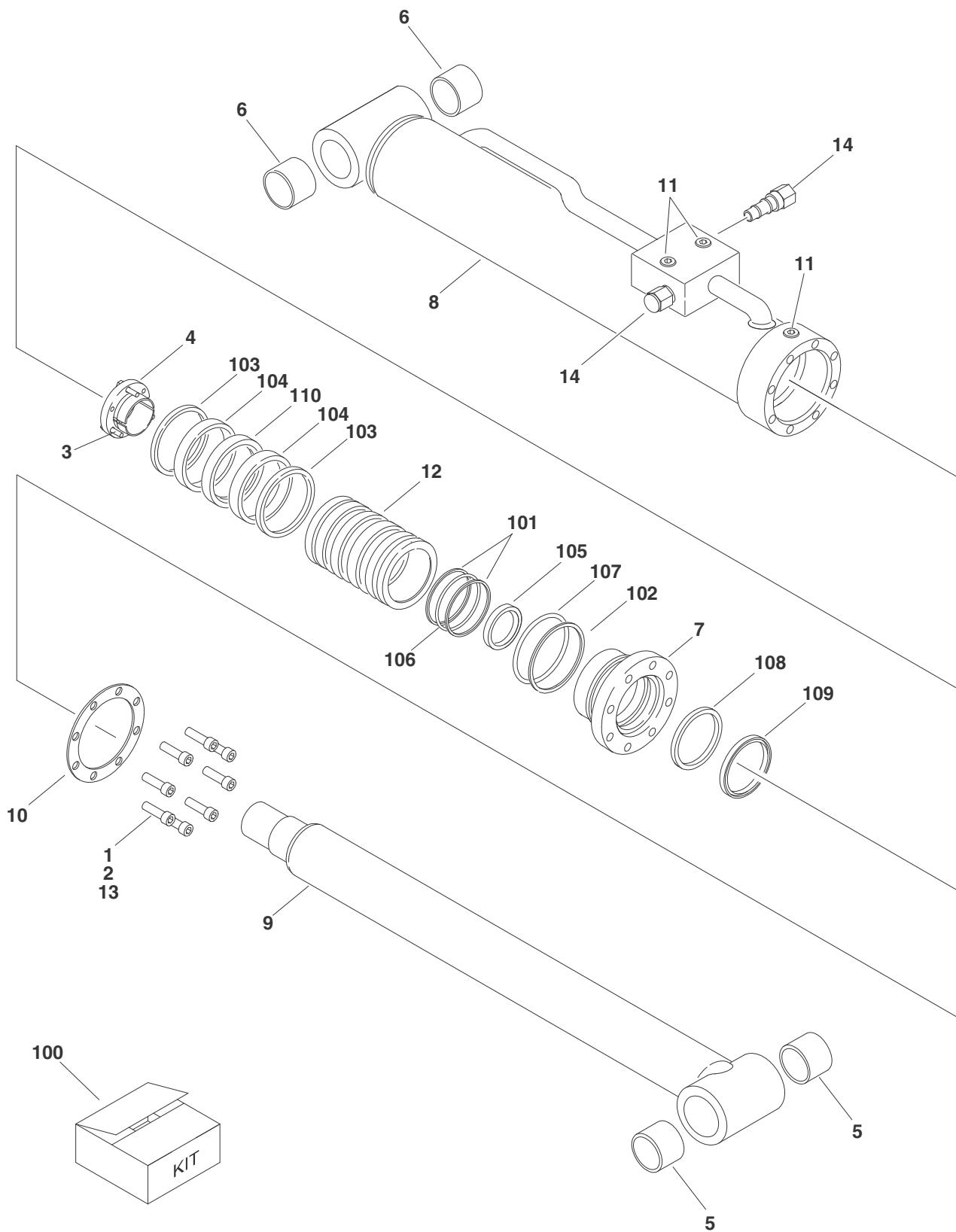
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FIGURE 5-5. USA BUILT MACHINES/LIFT (JIB) CYLINDER (450AJ SERIES II WITHOUT ARCTIC PACKAGE)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001140282	Ref	LIFT (JIB) CYLINDER ASSEMBLY (450AJ SERIES II WITHOUT ARCTIC PACKAGE)	A
1	70003834	1	Barrel	
2	70003835	1	Rod	
3 to 5	Not Used			
6	7026088	1	Head	
7	70003833	1	Piston	
8	0961951	2	Bushing	
9	0961947	2	Bushing	
10	Not Used			
11	4640509	2	Cartridge, Counterbalance Valve	
	2900792	2	Seal Kit - 4640509 Valve	
12 to 13	Not Used			
14	7026090	2	Bushing	
15	7026091	1	Sleeve	
16	7026092	1	Nut	
17	70002223	1	Retainer	
18	Use 70003836	1	Wiper	
19	Use 70003836	1	Seal	
20	Use 70003836	1	O-Ring	
21	Use 70003836	1	Ring, Backup	
22	Use 70003836	1	O-Ring	
23	Use 70003836	1	O-Ring	
24	7026068	1	O-Ring	
25	7024844	2	Plug	
26 to 27	Not Used			
28	Use 70003836	1	O-Ring	
29	Use 70003836	1	Seal	
30	Not Used			
31	70002220	1	Ring, Retaining	
32	Use 70003836	2	Ring, Wear	
33 to 49	Not Used			
50	70003836	1	Seal Kit - 1001140282 Cylinder (Includes Items 18-23, 28, 29 & 32)	

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FIGURE 5-6. USA BUILT MACHINES/LIFT (JIB) CYLINDER (450AJ SERIES II WITH ARCTIC PACKAGE)



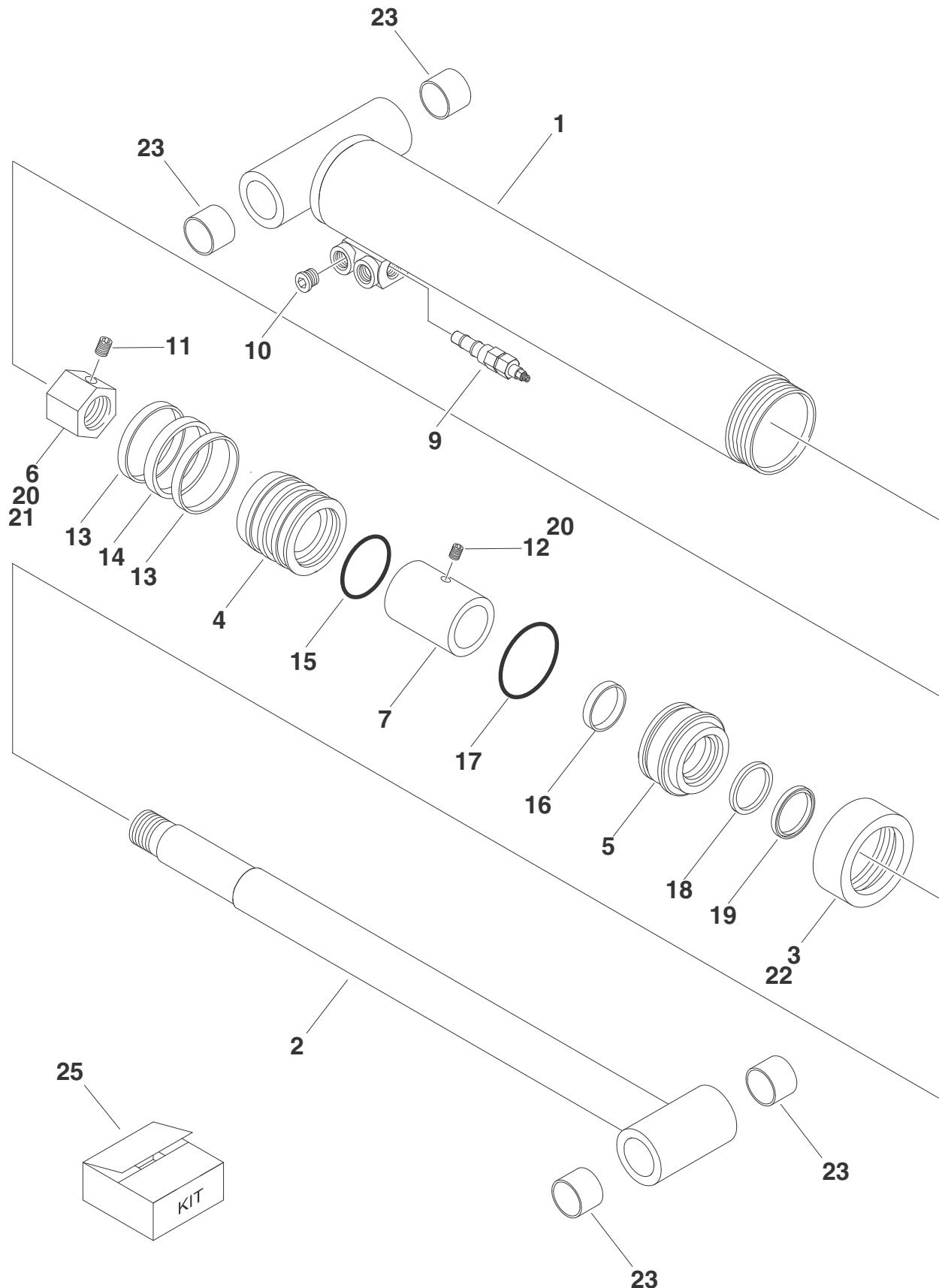
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FIGURE 5-6. USA BUILT MACHINES/LIFT (JIB) CYLINDER (450AJ SERIES II WITH ARCTIC PACKAGE)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001138816	Ref	LIFT (JIB) CYLINDER ASSEMBLY (450AJ SERIES II WITH ARCTIC PACKAGE)	D
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
3	0630534	3	Bolt #10-24NC x 1in	
4	0961893	1	Bushing, Tapered	
5	0961947	2	Bushing	
6	0961951	2	Bushing	
7	1683051	1	Head	
8	1683960	1	Barrel Weldment	
9	1683961	1	Rod Weldment	
10	3760367	1	Washer, Ring	
11	2220885	3	Plug, O-Ring	
12	3480249	1	Piston	
13	3931516	8	Bolt, Socket Head 5/16in-18NC x 2in	
14	4640509	2	Cartridge, Valve (Counterbalance Non-Vented)	
	2900792	2	Seal Kit - 4640509 Valve	
15 to 99	Not Used			
100	1001138819	1	Seal Kit, Cylinder (Includes Items 101-110)	
101	Use 1001138819	2	Ring, Back-up	
102	Use 1001138819	1	Ring, Back-up	
103	Use 1001138819	2	Seal	
104	Use 1001138819	2	Ring, Wear	
105	Use 1001138819	1	Ring, Wear	
106	Use 1001138819	1	O-Ring	
107	Use 1001138819	1	O-Ring	
108	Use 1001138819	1	Seal	
109	Use 1001138819	1	Wiper	
110	Use 1001138819	1	T-Seal	

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FIGURE 5-7. USA BUILT MACHINES/LIFT (MAIN BOOM) CYLINDER



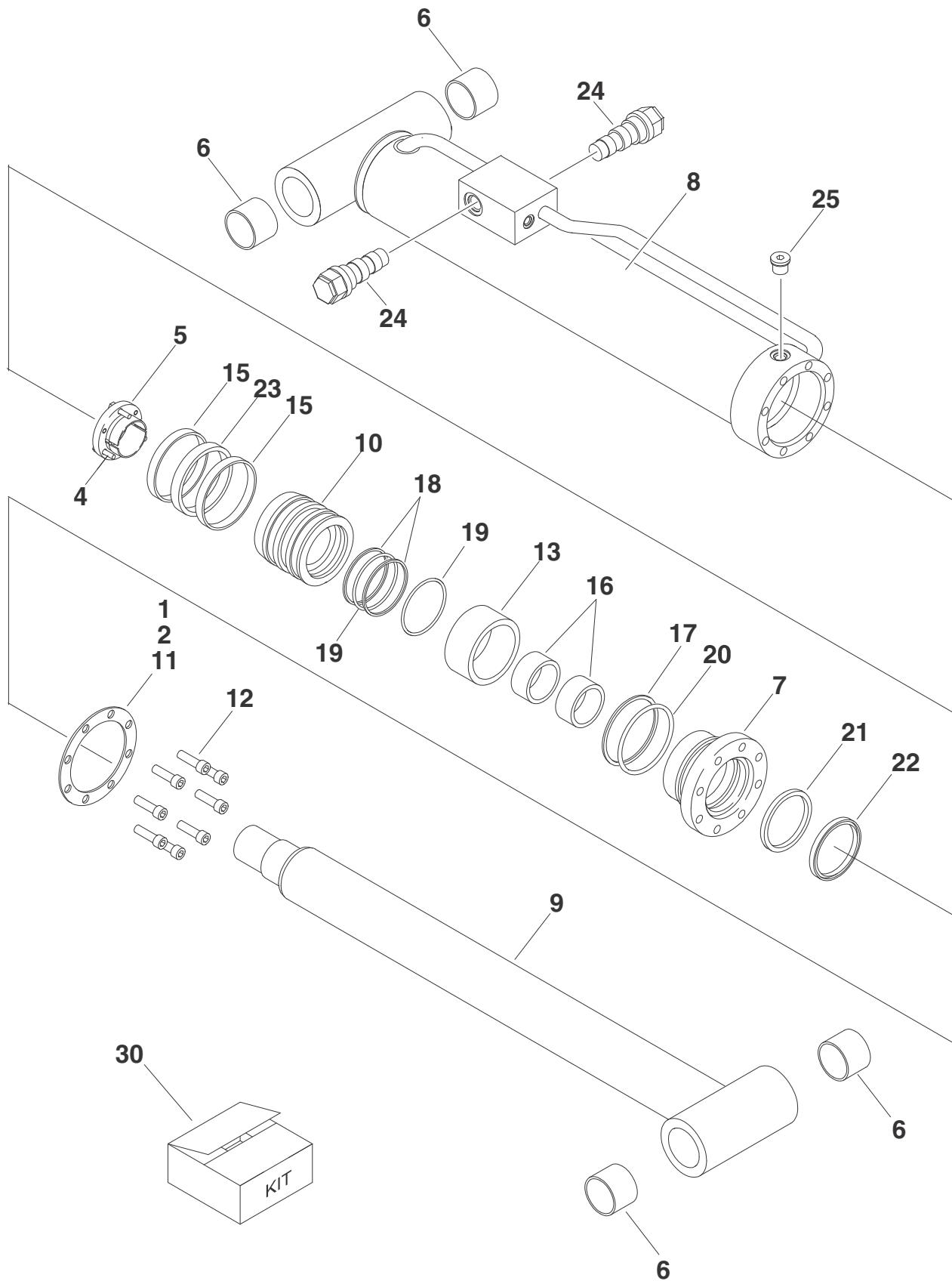
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FIGURE 5-7. USA BUILT MACHINES/LIFT (MAIN BOOM) CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	LIFT (MAIN BOOM) CYLINDER ASSEMBLY	
	1684155	Ref	450A Series II	2/D
	1684154	Ref	450AJ Series II	2/D
1		1	Barrel Weldment Options: 1684155 Cylinder 1684154 Cylinder	
2	1684060			
	1683946	1	Rod Weldment Options: 1684155 Cylinder 1684154 Cylinder	
3	1684059	1		
	1683947	1		
4	1120108	1	Cap, End	
5	3480240	1	Piston	
6	1683504	1	Head	
		1	Nut, Hex Options: 1684155 Cylinder 1684154 Cylinder	
7	3300315			
	3300279	1	Spacer, Tube Options: 1684155 Cylinder 1684154 Cylinder	
8	4567177			
	4567908	1		
9	Not Used			
10	4640936	1	Cartridge, Valve	
	2900770	1	Seal Kit - 4640936 Valve	
11	2220885	1	Plug, O-Ring	
12	3900170	1	Setscrew	
		1	Setscrew Options: 1684155 Cylinder 1684154 Cylinder	
13	3951402			
	3900142	2		
14	Use 1001118241	1	Ring, Wear	
15	Use 1001118241	1	Seal	
16	Use 1001118241	1	O-Ring	
17	Use 1001118241	1	Ring, Wear	
18	Use 1001118241	1	O-Ring	
19	Use 1001118241	1	Seal	
20	Use 1001118241	1	Wiper	
21	0100011	AR	Compound, Locking	
22	0100038	AR	Primer, Locking	
23	0100035	AR	Compound, Locking	
24	0961950	4	Bushing	
25	Not Used			
	1001118241	1	Seal Kit, Cylinder (Includes Items 13-19)	

SECTION 5 CYLINDER

FIGURE 5-8. USA BUILT MACHINES/LIFT (TOWER BOOM) CYLINDER



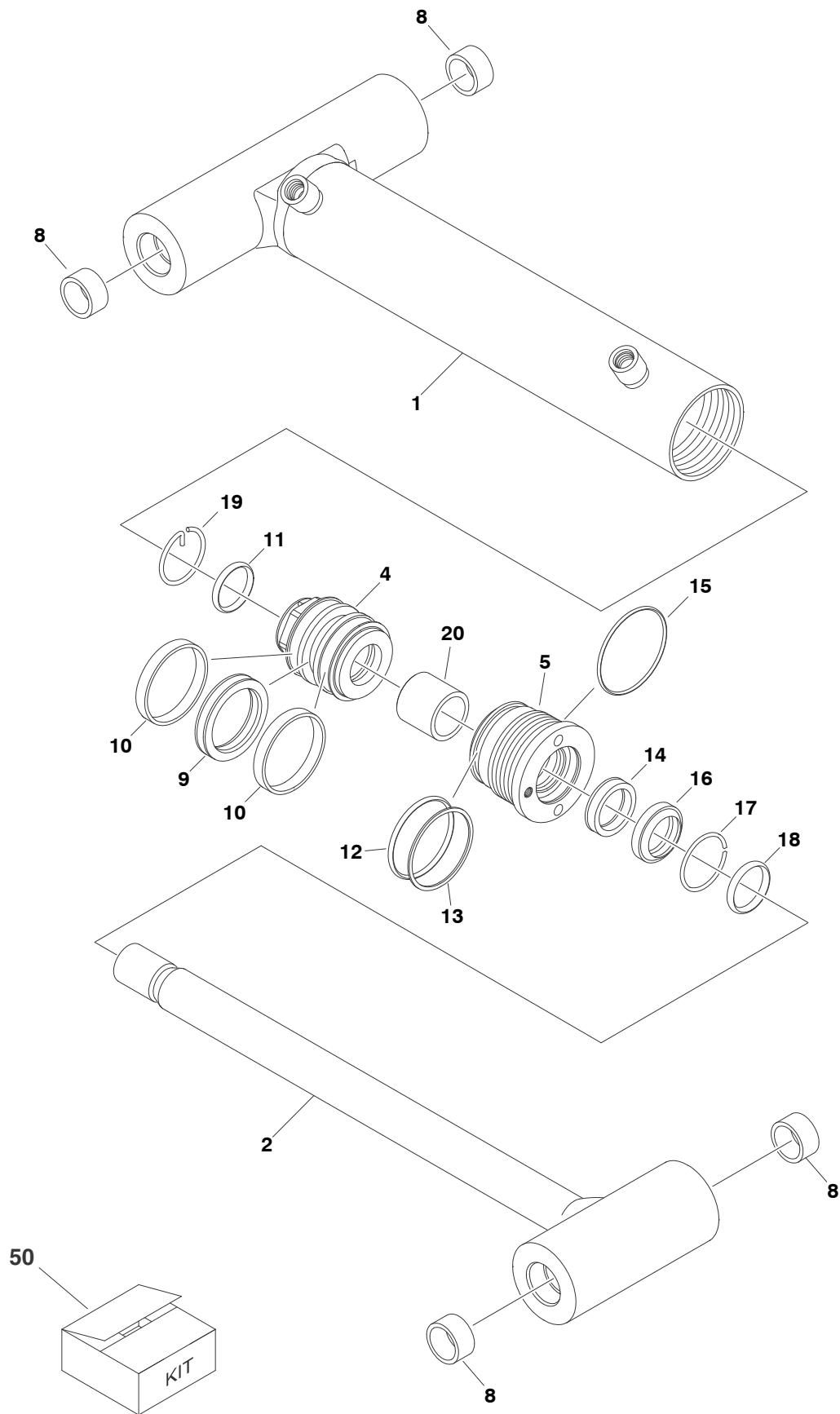
SECTION 5 CYLINDER

FIGURE 5-8. USA BUILT MACHINES/LIFT (TOWER BOOM) CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684070	Ref	LIFT (TOWER BOOM) CYLINDER ASSEMBLY	G
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
3	Not Used			
4	0630535	3	Capscrew 1/4in-20NC x 1-1/8in	
5	0961897	1	Bushing, Tapered	
6	0961950	4	Bushing	
7	1683063	1	Head	
8	1684067	1	Barrel Weldment	
9	1684069	1	Rod Weldment	
10	3480253	1	Piston	
11	3760371	1	Washer, Ring	
12	3931824	8	Bolt, Socket Head 1/2in-13NC x 1-1/2in	
13	4100099	1	Spacer, Tube	
14	Not Used			
15	Use 2902044	2	Ring, Wear	
16	Use 2902044	2	Ring, Wear	
17	Use 2902044	1	Ring, Back-up	
18	Use 2902044	2	Ring, Back-up	
19	Use 2902044	2	O-Ring	
20	Use 2902044	1	O-Ring	
21	Use 2902044	1	Seal	
22	Use 2902044	1	Wiper	
23	Use 2902044	1	T-Seal	
24	4640509	2	Cartridge, Valve (Counterbalance Non-Vented)	
	2900792	2	Seal Kit - 4640509 Valve	
25	2220886	1	Plug, O-Ring	
26 to 29	Not Used			
30	2902044	1	Seal Kit, Cylinder (Includes Items 15-23)	

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FIGURE 5-9. USA BUILT MACHINES/MASTER CYLINDER (450A SERIES II)



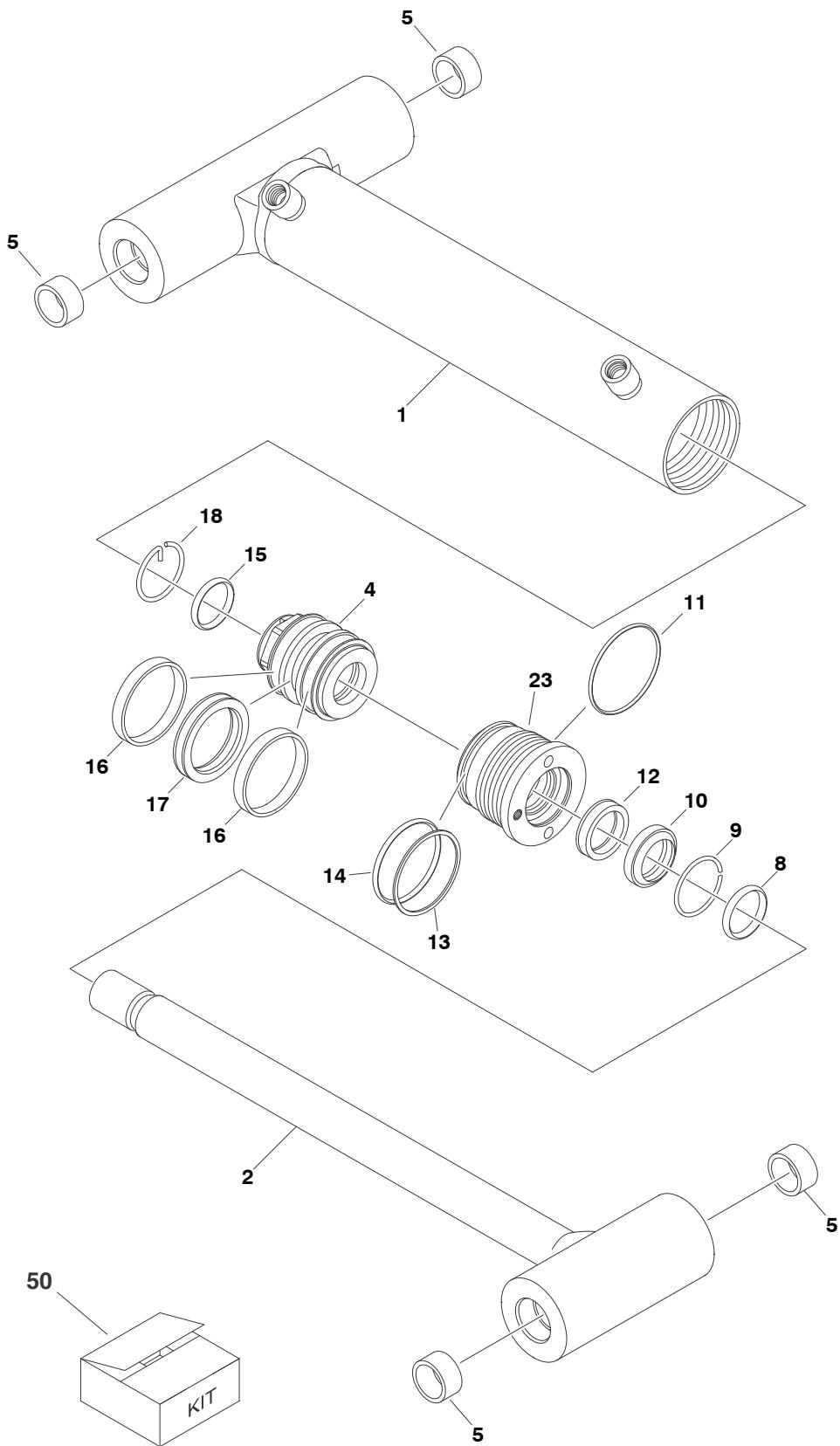
SECTION 5 CYLINDER

FIGURE 5-9. USA BUILT MACHINES/MASTER CYLINDER (450A SERIES II)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001140276	Ref	MASTER CYLINDER ASSEMBLY (450A SERIES II)	B
1	70003831	1	Barrel	
2	70003832	1	Rod	
3	Not Used			
4	70003810	1	Piston	
5	70003809	1	Head	
6 to 7	Not Used			
8	0961947	4	Bushing	
9	Use 70003814	1	Seal	
10	Use 70003814	2	Ring, Wear	
11	Use 70003814	1	O-Ring	
12	Use 70003814	1	O-Ring	
13	Use 70003814	1	Ring, Back-up	
14	Use 70003814	1	Seal	
15	Use 70003814	1	O-Ring	
16	Use 70003814	1	Wiper	
17	70002217	1	Ring, Retaining	
18	7026084	1	O-Ring	
19	70002216	1	Retainer	
20	70003830	1	Spacer	
21 to 49	Not Used			
50	70003814	1	Seal Kit (Includes Items 9-16)	

SECTION 5 CYLINDER

FIGURE 5-10. USA BUILT MACHINES/MASTER CYLINDER (450AJ SERIES II WITHOUT ARCTIC PACKAGE)



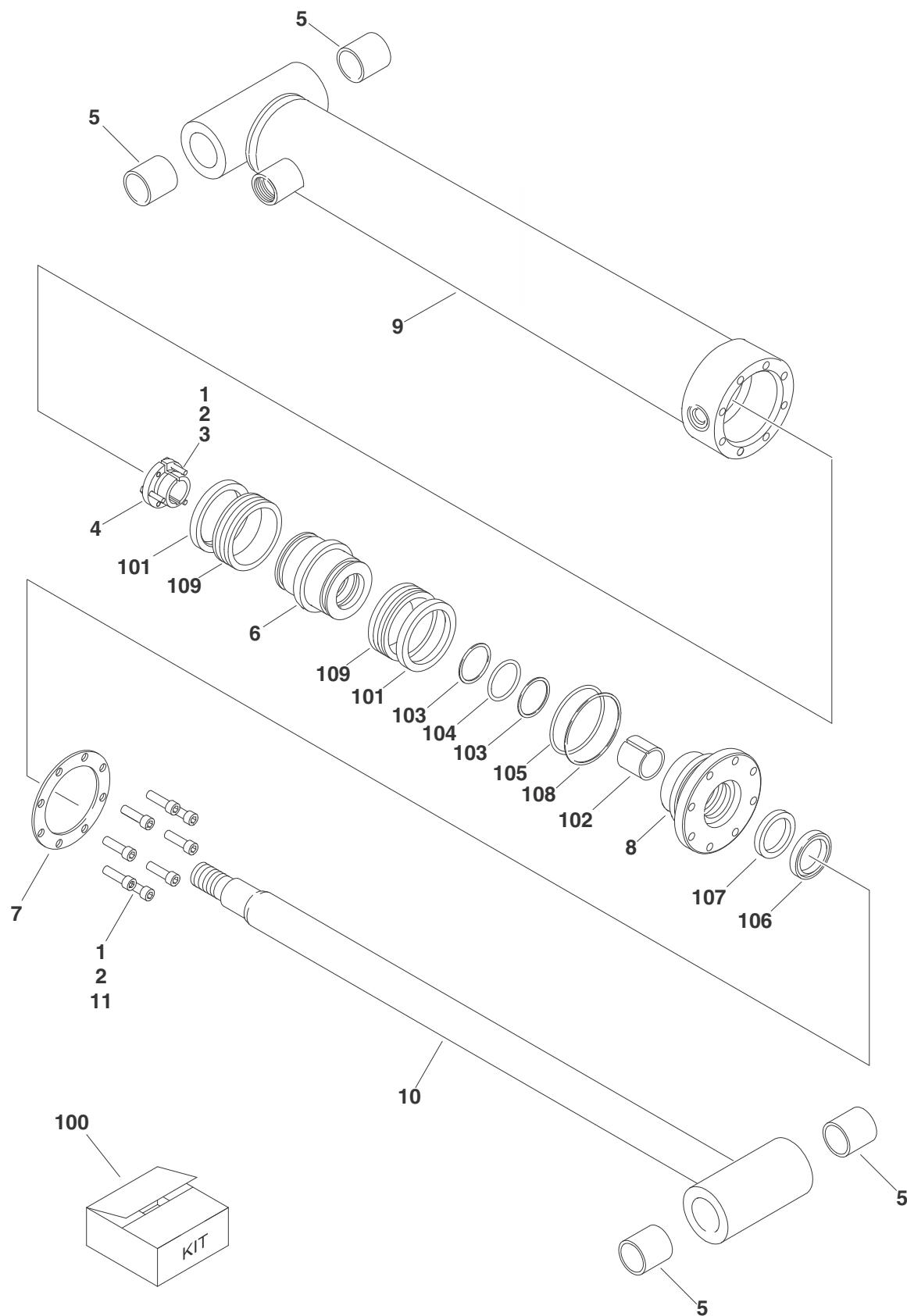
SECTION 5 CYLINDER

FIGURE 5-10. USA BUILT MACHINES/MASTER CYLINDER (450AJ SERIES II WITHOUT ARCTIC PACKAGE)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001140278	Ref	MASTER CYLINDER ASSEMBLY (450A SERIES II WITHOUT ARCTIC PACKAGE)	A
1	70003843	1	Barrel	
2	70003844	1	Rod	
3	Not Used			
4	70003819	1	Piston	
5	0961951	4	Bushing	
6 to 7	Not Used			
8	7026084	1	O-Ring	
9	70002217	1	Ring, Retaining	
10	Use 70003845	1	Wiper	
11	Use 70003845	1	O-Ring	
12	Use 70003845	1	Seal	
13	Use 70003845	1	Ring, Back-up	
14	Use 70003845	1	O-Ring	
15	Use 70003845	1	O-Ring	
16	Use 70003845	2	Ring, Wear	
17	Use 70003845	1	Seal	
18	70002216	1	Retainer	
19 to 22	Not Used			
23	7026082	1	Head	
24 to 49	Not Used			
50	70003845	1	Seal Kit (Includes Items 10-17)	

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FIGURE 5-11. USA BUILT MACHINES/MASTER CYLINDER (450AJ SERIES II WITH ARCTIC PACKAGE)



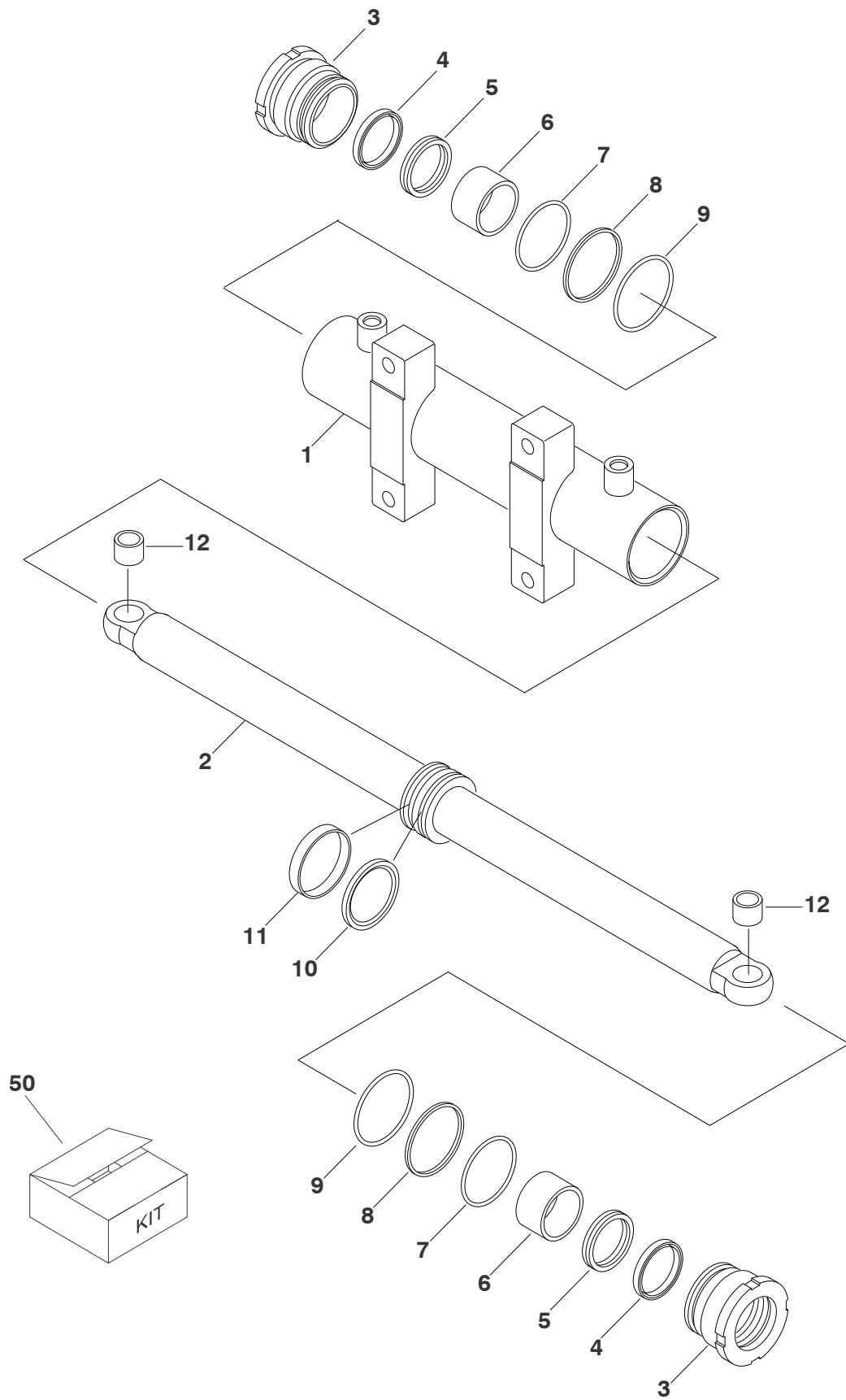
SECTION 5 CYLINDER

FIGURE 5-11. USA BUILT MACHINES/MASTER CYLINDER (450AJ SERIES II WITH ARCTIC PACKAGE)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001138817	Ref	MASTER CYLINDER ASSEMBLY (450AJ SERIES II WITH ARCTIC PACKAGE)	A
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
3	3931016	3	Bolt Socket Head #10-24NC x 1in	
4	0962185	1	Bushing, Tapered	
5	0961951	4	Bushing, Garmax	
6	3480247	1	Piston	
7	3760368	1	Washer, Ring	
8	1683052	1	Head	
9	1683756	1	Barrel	
10	1683772	1	Rod	
11	3931516	8	Bolt Socket Head 5/16in-18NC x 1in	
12 to 99	Not Used			
100	1001138818	1	Seal Kit, Cylinder (Includes Items 101-109)	
101	Use 1001138818	2	Ring, Lock	
102	Use 1001138818	1	Ring, Wear	
103	Use 1001138818	2	Ring, Back-Up	
104	Use 1001138818	1	O-Ring	
105	Use 1001138818	1	O-Ring	
106	Use 1001138818	1	Wiper	
107	Use 1001138818	1	Seal	
108	Use 1001138818	1	Ring, Back-Up	
109	Use 1001138818	2	Seal	

SECTION 5 CYLINDER

FIGURE 5-12. USA BUILT MACHINES/STEER CYLINDER



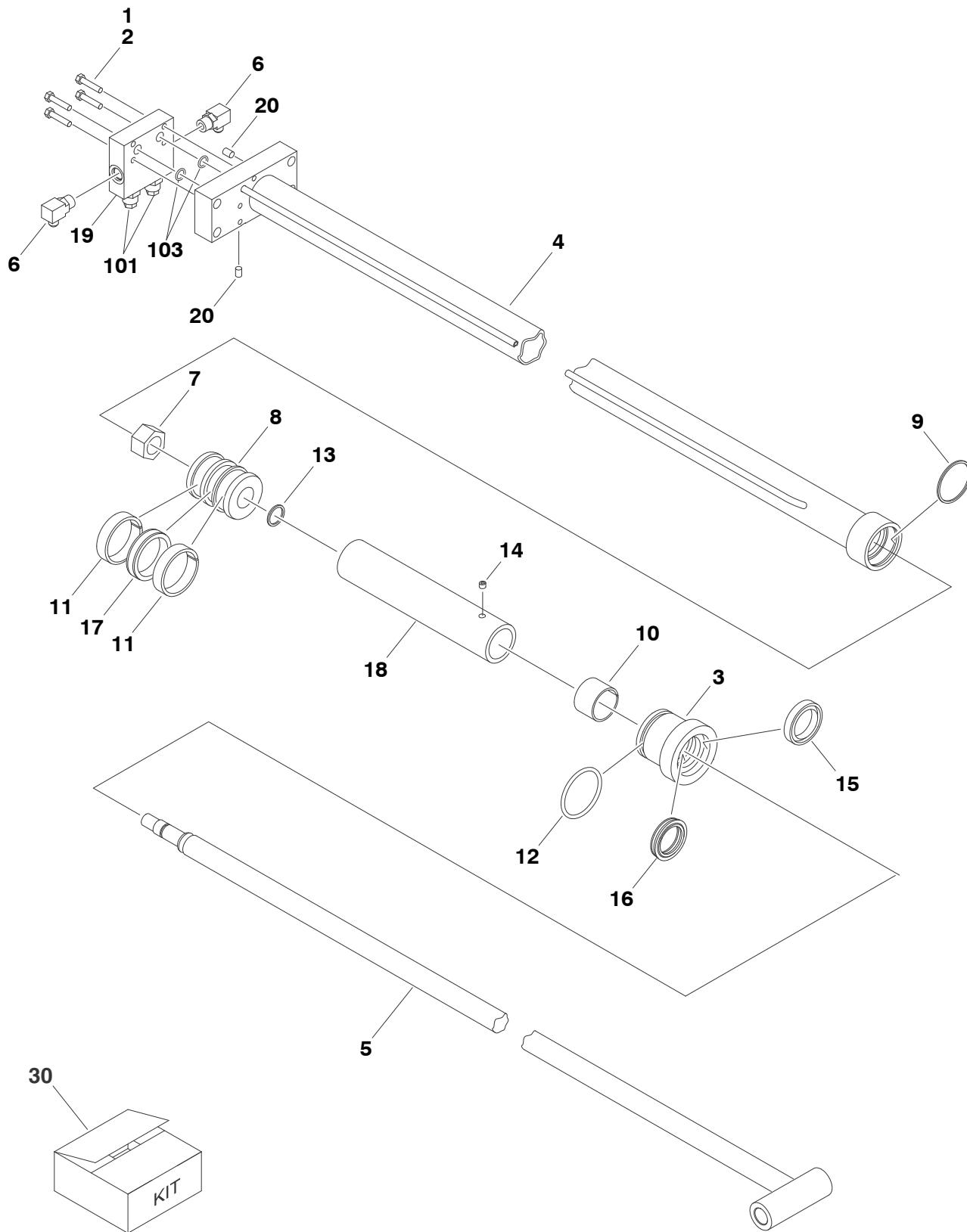
SECTION 5 CYLINDER

FIGURE 5-12. USA BUILT MACHINES/STEER CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001143434	Ref	STEER CYLINDER ASSEMBLY	B
1	70003933	1	Barrel	
2	70003934	1	Rod	
3	70003098	2	Head	
4	Use 70003099	2	Wiper	
5	Use 70003099	2	Seal, Rod	
6	Use 70003099	2	Bearing	
7	Use 70003099	2	O-Ring	
8	Use 70003099	2	Ring, Back-up	
9	Use 70003099	2	O-Ring	
10	Use 70003099	1	Seal, Piston	
11	Use 70003099	1	Ring, Wear	
12	Use 70003099	2	Bearing	
<hr/>				
50	70003099	1	Seal Kit - 1001143434 Cylinder (includes Items 4-12)	

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FIGURE 5-13. USA BUILT MACHINES/TELESCOPE CYLINDER (SN 0300160835 TO SN 0300175029)



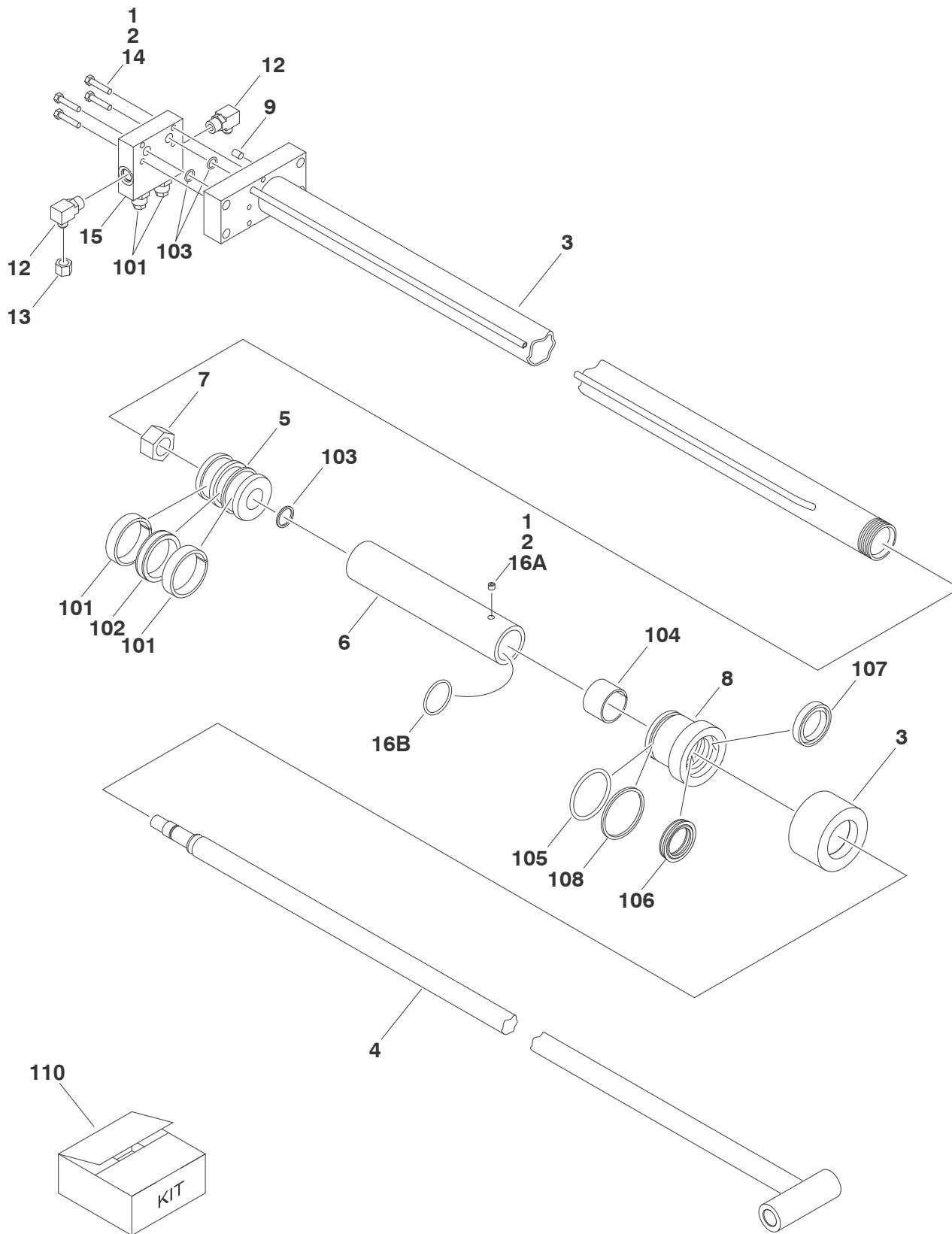
SECTION 5 CYLINDER

FIGURE 5-13. USA BUILT MACHINES/TELESCOPE CYLINDER (SN 0300160835 TO SN 0300175029)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	TELESCOPE CYLINDER ASSEMBLY	
	1001143915	Ref	450A Series II	B
	1001143916	Ref	450AJ Series II	B
1	0100011	AR	Compound, Locking	
2	0641512	4	Bolt 5/16in-18NC x 1-1/2in	
3	1682892	1	Head	
4		1	Barrel Weldment Options: 450A Series II 450AJ Series II	
5		1	Rod Weldment Options: 450A Series II 450AJ Series II	
6	2220628	2	Adapter, Elbow	
7	3322205	1	Locknut 3/4in-16NC	
8	3480239	1	Piston	
9	3760318	1	Ring, Retaining	
10	Use 2902073	1	Ring, Wear	
11	Use 2902073	2	Ring, Wear	
12	Use 2902073	1	O-Ring	
13	Use 2902073	1	O-Ring	
14	3951402	1	Setscrew 1/4in-20NC x 1/4in	
15	Use 2902073	1	Wiper	
16	Use 2902073	1	Seal	
17	Use 2902073	1	Seal	
18		1	Spacer, Tube Options: 4568218 4566027	
	4568218		450A Series II	
	4566027		450AJ Series II	
19	4641200	1	Counterbalance Valve Assembly (See Items 101-103 for Breakdown)	
20	2220883	2	Plug, O-Ring	
21 to 29	Not Used			
30	2902073	1	Seal Kit, Cylinder (Includes Items 10-13 & 15-17)	
		Ref	COUNTERBALANCE VALVE ASSEMBLY	C
101	7011347	2	Cartridge, Counterbalance	
	2900770	2	Seal Kit - Cartridge (1 Per Cartridge)	
102	Not Used			
103	3790113	2	O-Ring (Between Valve and Cylinder Block)	

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FIGURE 5-14. USA BUILT MACHINES/TELESCOPE CYLINDER (SN 0300175029 TO PRESENT)



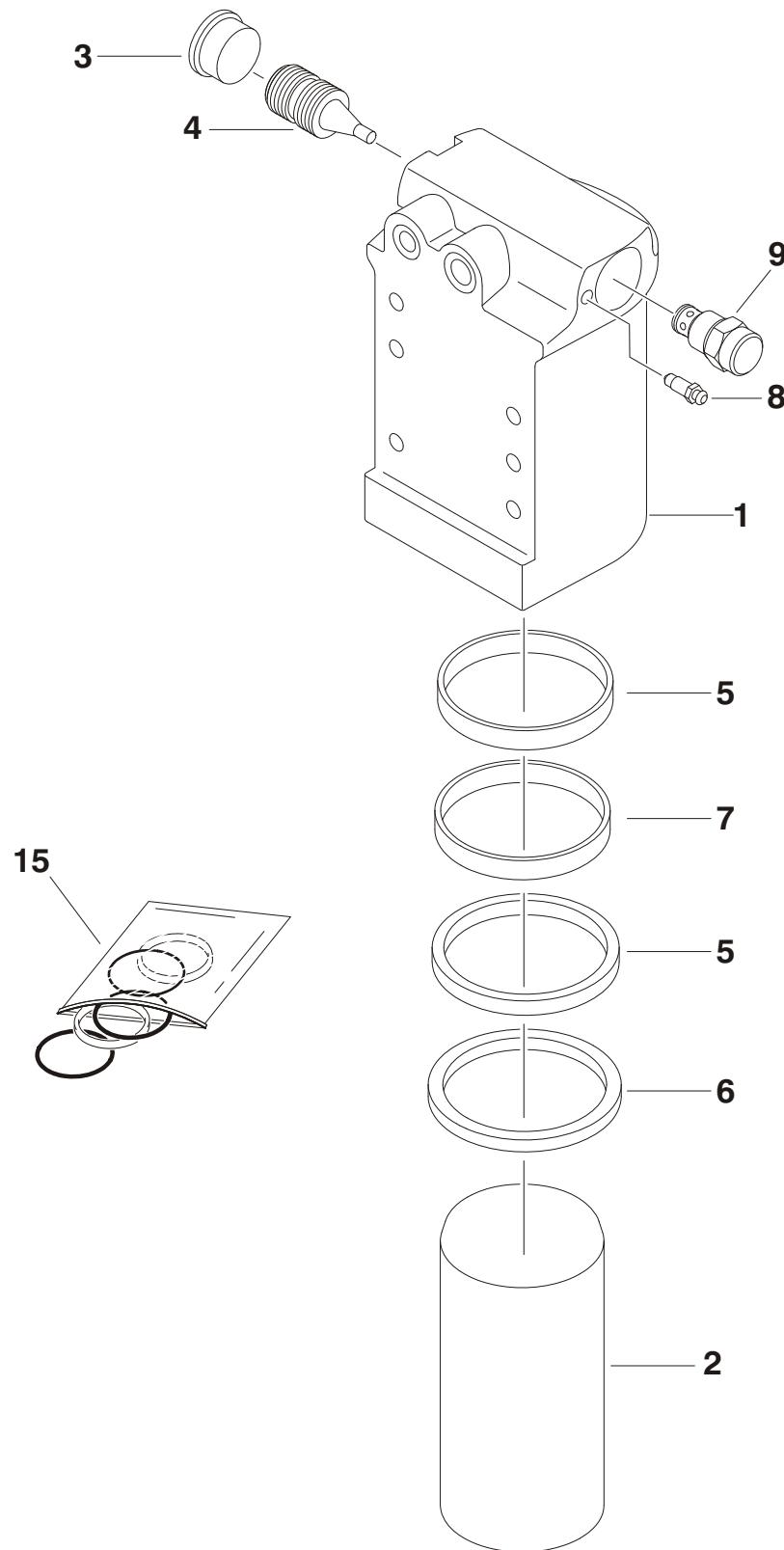
SECTION 5 CYLINDER

FIGURE 5-14. USA BUILT MACHINES/TELESCOPE CYLINDER (SN 0300175029 TO PRESENT)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	TELESCOPE CYLINDER ASSEMBLY	
	1001152384	Ref	450A Series II	B
	1001152118	Ref	450AJ Series II	B
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer	
3	1001152391	1	Barrel Weldment Options: 450A Series II 450AJ Series II	
	1001151386			
4	1684098	1	Rod Weldment Options: 450A Series II 450AJ Series II	
	1683802			
5	3480239	1	Piston	
6	4568218	1	Spacer, Tube Options: 450A Series II 450AJ Series II	
	4566027			
7	3322205	1	Locknut 3/4in-16NC	
8	1683584	1	Head	
9	2220883	1	Plug, O-Ring	
10 to 11	Not Used			
12	2220628	2	Adapter, Elbow	
13	2220516	2	Adapter, Cap	
14	0641512	4	Bolt 5/16in-18NC x 1-1/2in	
15	4641200	1	Counterbalance Valve Assembly (See Items 201-203 for Breakdown)	
16		1	Hardware Options: 450A Series II - Setscrew 1/4in-20NC x 1/4in 450AJ Series II - O-Ring	
16A	3951402			
16B	3780182			
17 to 100	Not Used			
101	Use 1001152230	1	Ring, Wear	
102	Use 1001152230	1	Seal	
103	Use 1001152230	1	O-Ring	
104	Use 1001152230	2	Ring, Wear	
105	Use 1001152230	1	O-Ring	
106	Use 1001152230	1	Seal	
107	Use 1001152230	1	Wiper	
108	Use 1001152230	1	Ring, Backup	
109	Not Used			
110	1001152230	1	Seal Kit, Cylinder (Includes Items 101-108)	
	4641200	Ref	COUNTERBALANCE VALVE ASSEMBLY	C
201	7011347	2	Cartridge, Counterbalance	
	2900770	2	Seal Kit - Cartridge (1 Per Cartridge)	
202	Not Used			
203	3790113	2	O-Ring (Between Valve and Cylinder Block)	

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FIGURE 5-15. ROMANIAN BUILT MACHINES/AXLE LOCKOUT CYLINDER



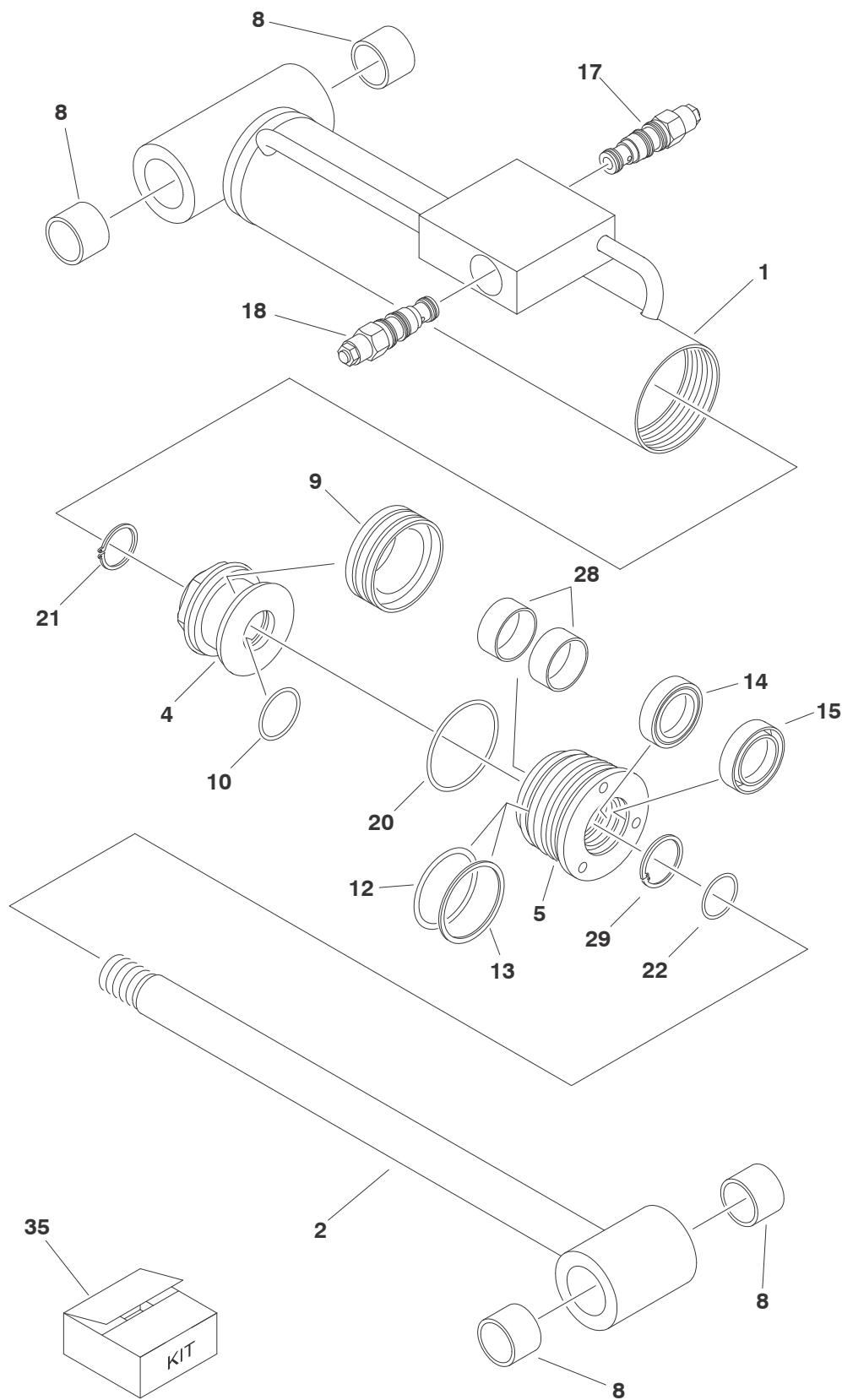
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FIGURE 5-15. ROMANIAN BUILT MACHINES/AXLE LOCKOUT CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684465	Ref	AXLE LOCKOUT CYLINDER ASSEMBLY	G
1	0370026	1	Barrel	
2	1684290	1	Rod	
3	2220890	1	Plug	
4	3480288	1	Piston, Pilot	
5	Use 2902266	2	Ring, Wear	
6	Use 2902266	1	Wiper	
7	Use 2902266	1	Seal, Rod	
8	4640858	1	Bleeder	
9	4641390	1	Cartridge, Valve	
	7017496	1	Seal Kit	
10 to 14	Not Used			
15	2902266	1	Seal Kit, Cylinder (Includes Items 5-7)	

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FIGURE 5-16. ROMANIAN BUILT MACHINES/LEVEL (PLATFORM SLAVE) CYLINDER



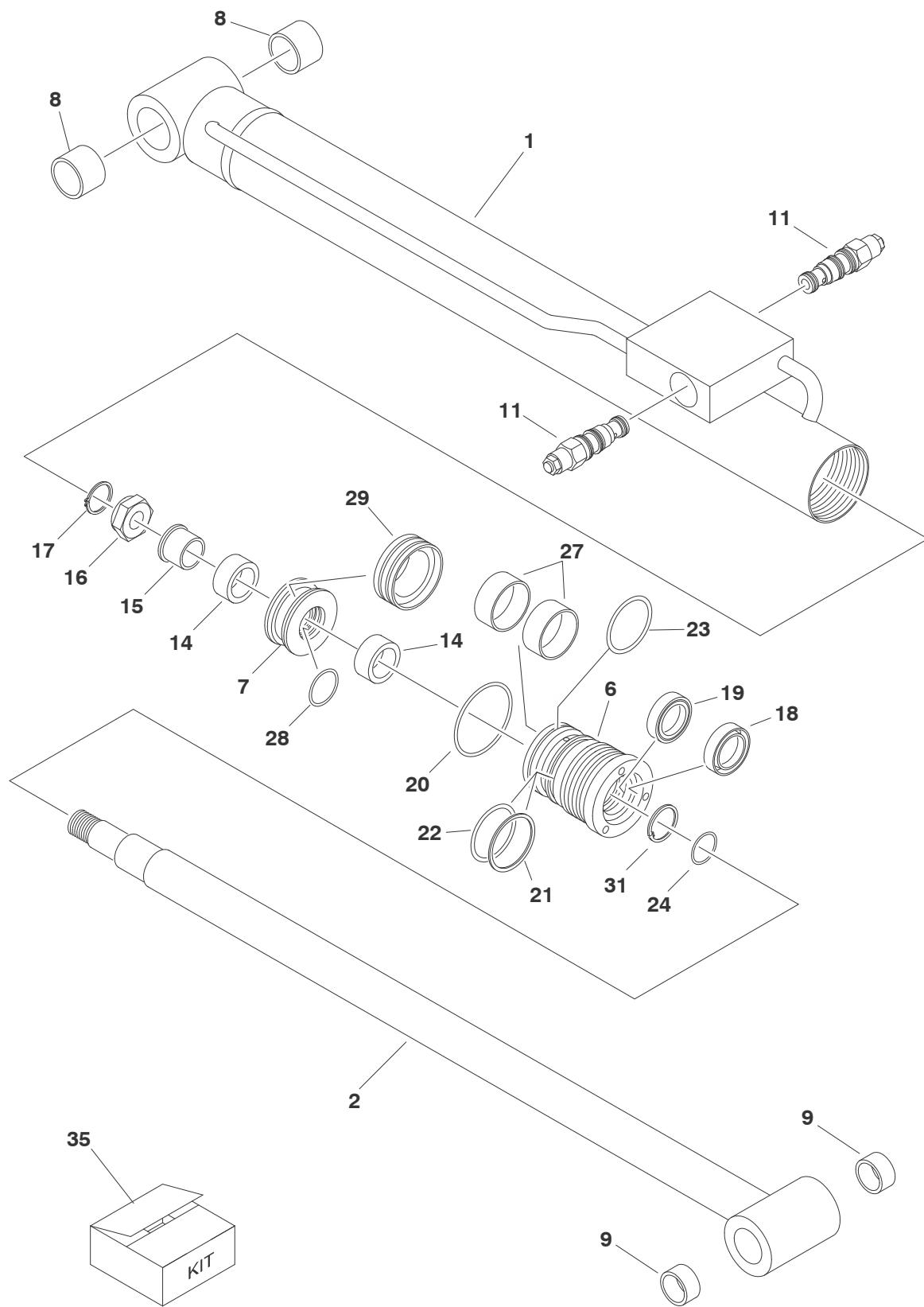
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FIGURE 5-16. ROMANIAN BUILT MACHINES/LEVEL (PLATFORM SLAVE) CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001094789	Ref	LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY	B
1	7026117	1	Barrel	
2	7026118	1	Rod	
3	Not Used			
4	7026081	1	Piston	
5	7026082	1	Head	
6 to 7	Not Used			
8	0961951	4	Bearing	
9	Use 7026087	1	Seal	
10	Use 7026087	1	O-Ring	
11	Not Used			
12	Use 7026087	1	O-Ring	
13	Use 7026087	1	Ring, Back-up	
14	Use 7026087	1	Seal	
15	Use 7026087	1	Wiper	
16	Not Used			
17	70001086	1	Cartridge, Valve	
	2900770	1	Seal Kit - 70001086 Valves	
18	7011377	1	Cartridge, Valve	
	7011358	1	Seal Kit - 7011377 Valve	
19	Not Used			
20	Use 7026087	1	O-Ring	
21	70002216	1	Ring, Retaining	
22	Use 7026087	1	O-Ring	
23 to 27	Not Used			
28	Use 7026087	2	Ring, Ware (SN E300001236 to Present)	
29	70002217	1	Ring, Retaining	
30 to 34	Not Used			
35	7026087	1	Seal Kit, Cylinder (Includes Items 9, 10, 12-15, 20 & 22)	

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FIGURE 5-17. ROMANIAN BUILT MACHINES/LIFT (JIB) CYLINDER



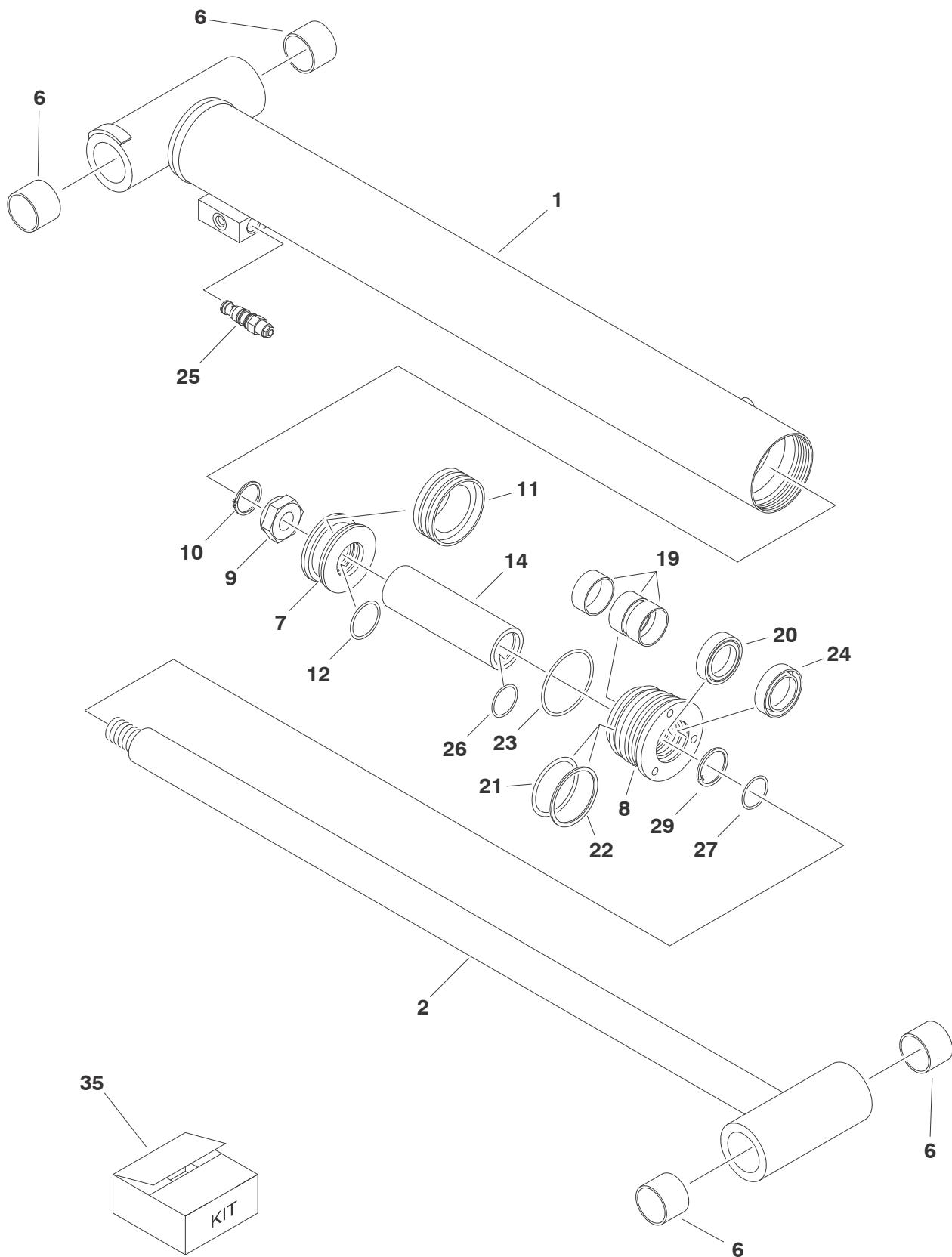
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FIGURE 5-17. ROMANIAN BUILT MACHINES/LIFT (JIB) CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684242	Ref	JIB LIFT CYLINDER ASSEMBLY	D
1	7026093	1	Barrel	
2	7026094	1	Rod	
3 to 5	Not Used			
6	7026088	1	Head	
7	7026089	1	Piston	
8	0961951	2	Bearing	
9	0961947	2	Bearing	
10	Not Used			
11	7026096	2	Cartridge, Valve	
	2900770	2	Seal Kit - 7026096 Valve (1 Per Cartridge)	
12 to 13	Not Used			
14	7026090	2	Bushing	
15	7026091	1	Sleeve	
16	7026092	1	Nut	
17	70002223	1	Ring, Retaining	
18	Use 7026095	1	Wiper	
19	Use 7026095	1	Seal	
20	Use 7026095	1	O-Ring	
21	Use 7026095	1	Ring, Back-up	
22	Use 7026095	1	O-Ring	
23	Use 7026095	1	O-Ring	
24	Use 7026095	1	O-Ring	
25 to 26	Not Used			
27	Use 7026095	2	Ring, Ware (SN E300001236 to Present)	
28	Use 7026095	1	O-Ring	
29	Use 7026095	1	Seal	
30	Not Used			
31	70002220	1	Ring, Retaining	
32 to 34	Not Used			
35	7026095	1	Seal Kit, Cylinder (Includes Items 18-24, 27 & 29)	

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FIGURE 5-18. ROMANIAN BUILT MACHINES/LIFT (MAIN BOOM) CYLINDER



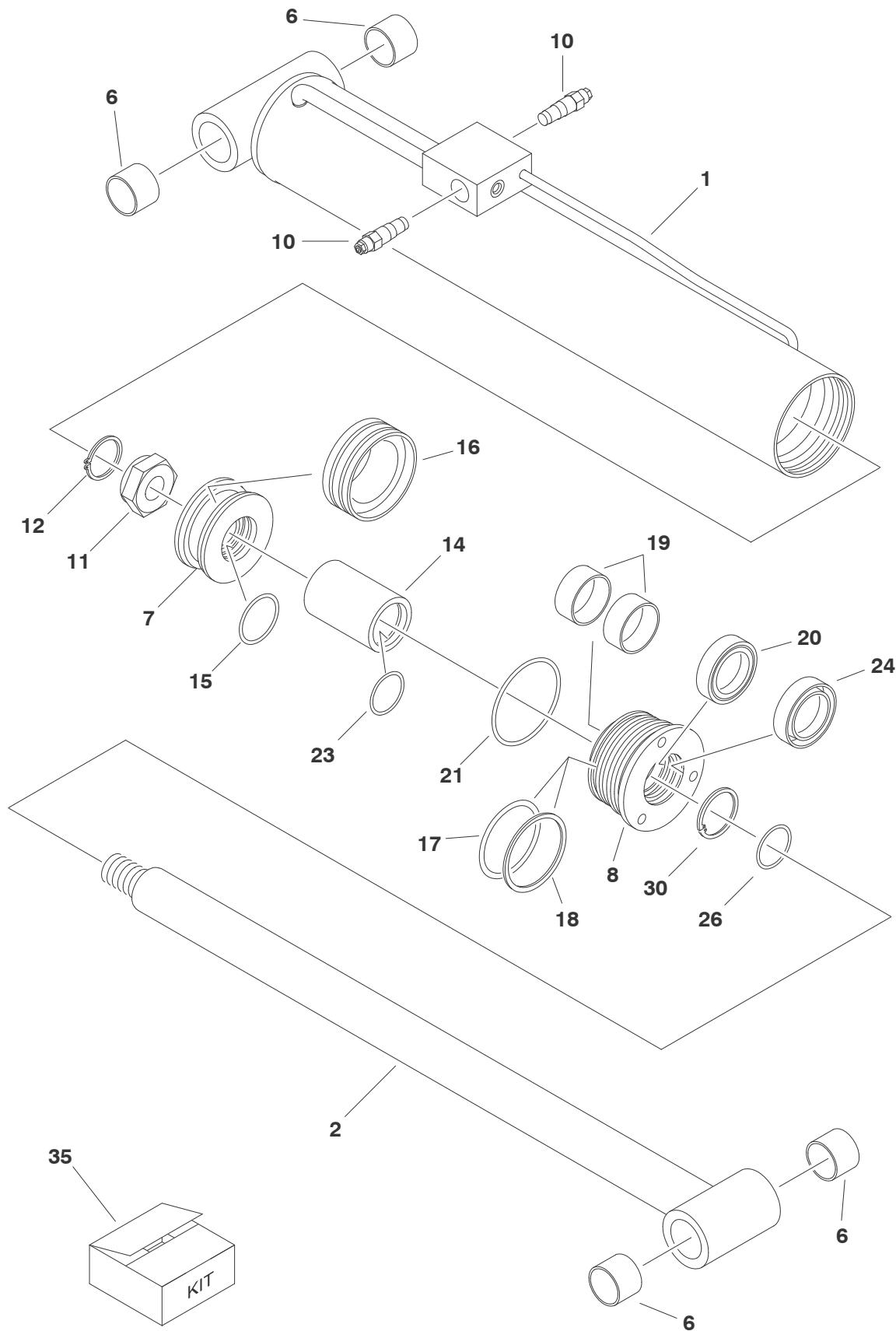
SECTION 5 CYLINDER

FIGURE 5-18. ROMANIAN BUILT MACHINES/LIFT (MAIN BOOM) CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684244	Ref	MAIN LIFT CYLINDER ASSEMBLY	E
1	7026101	1	Barrel	
2	7026102	1	Rod	
3 to 5	Not Used			
6	0961950	4	Bearing	
7	7026097	1	Piston	
8	7026098	1	Head	
9	7026099	1	Nut	
10	70002224	1	Ring, Retaining	
11	Use 70002225	1	Seal	
12	Use 70002225	1	O-Ring	
13	Not Used			
14	See Note	1	Spacer (Note: Not Available for Purchase)	
15 to 18	Not Used			
19	Use 70002225	3	Ring, Wear	
20	Use 70002225	1	Seal	
21	Use 70002225	1	O-Ring	
22	Use 70002225	1	Ring, Back-up	
23	Use 70002225	1	O-Ring	
24	Use 70002225	1	Wiper	
25	4640936	1	Cartridge, Valve	
	2900770	1	Seal Kit - 4640936 Valve	
26	Use 70002225	1	O-Ring	
27	Use 70002225	1	O-Ring	
28	Not Used			
29	70002219	1	Ring, Retaining	
30 to 34	Not Used			
35	70002225	1	Seal Kit, Cylinder (Includes Items 11, 12, 19-24, 26 & 27)	

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FIGURE 5-19. ROMANIAN BUILT MACHINES/LIFT (TOWER BOOM) CYLINDER



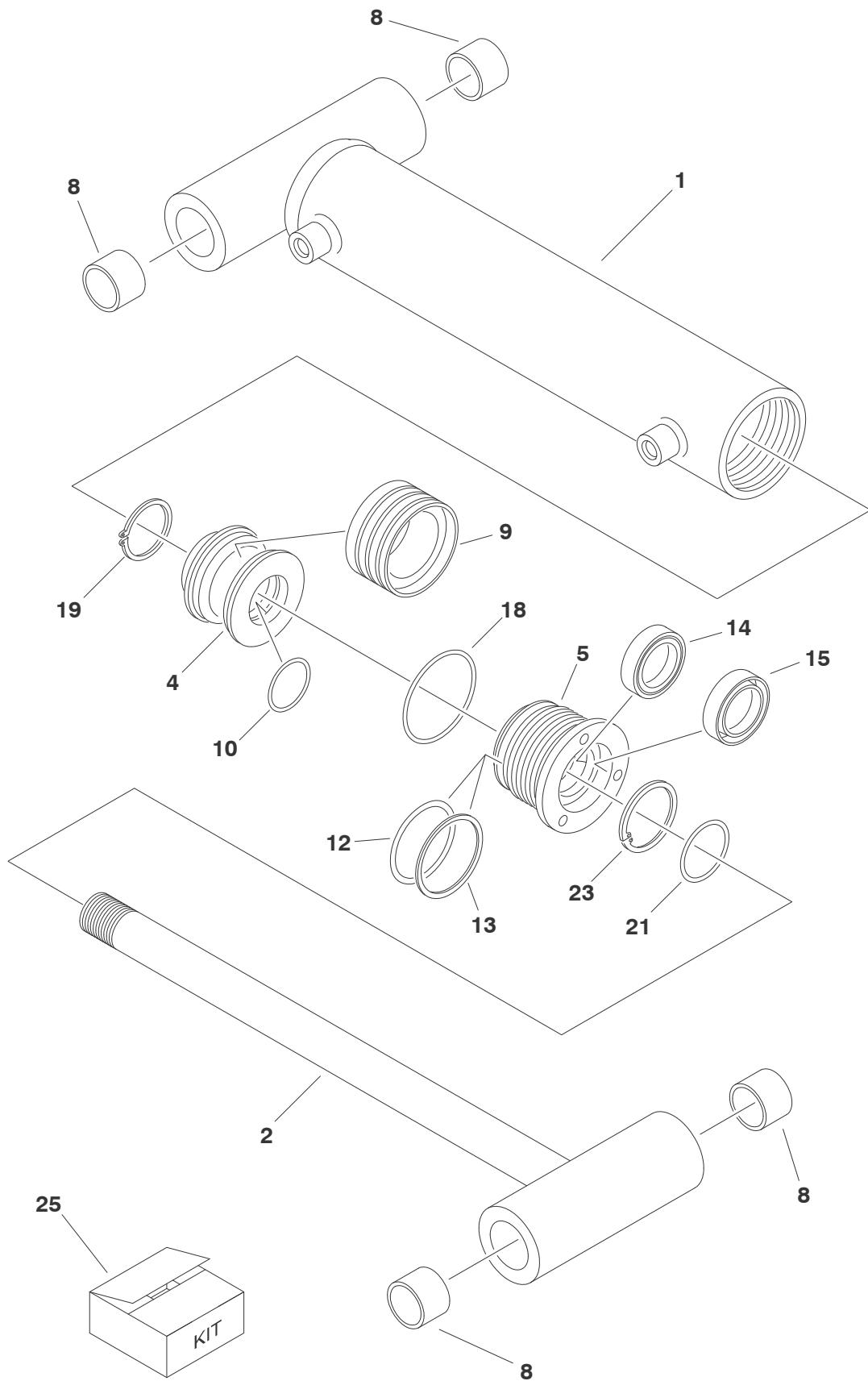
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FIGURE 5-19. ROMANIAN BUILT MACHINES/LIFT (TOWER BOOM) CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684239	Ref	TOWER LIFT CYLINDER ASSEMBLY	D
1	7026078	1	Barrel	
2	7026079	1	Rod	
3 to 5	Not Used			
6	0961950	4	Bearing	
7	7026073	1	Piston	
8	7026074	1	Head	
9	Not Used			
10	4641260	2	Cartridge, Valve	
	2900770	2	Seal Kit - 4641260 Valve (1 Per Assembly)	
11	7026075	1	Nut	
12	70002221	1	Ring, Retaining	
13	Not Used			
14	7026076	1	Spacer	
15	Use 7026080	1	O-Ring	
16	Use 7026080	1	Seal	
17	Use 7026080	1	O-Ring	
18	Use 7026080	1	Ring, Back-up	
19	Use 7026080	2	Ring, Wear	
20	Use 7026080	1	Seal	
21	Use 7026080	1	O-Ring	
22	Not Used			
23	Use 7026080	1	O-Ring	
24	Use 7026080	1	Wiper	
25	Not Used			
26	Use 7026080	1	O-Ring	
27 to 29	Not Used			
30	70002222	1	Ring, Retaining	
31 to 34	Not Used			
35	7026080	1	Seal Kit, Cylinder (Includes Items 15-21, 23, 24 & 26)	

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FIGURE 5-20. ROMANIAN BUILT MACHINES/MASTER CYLINDER



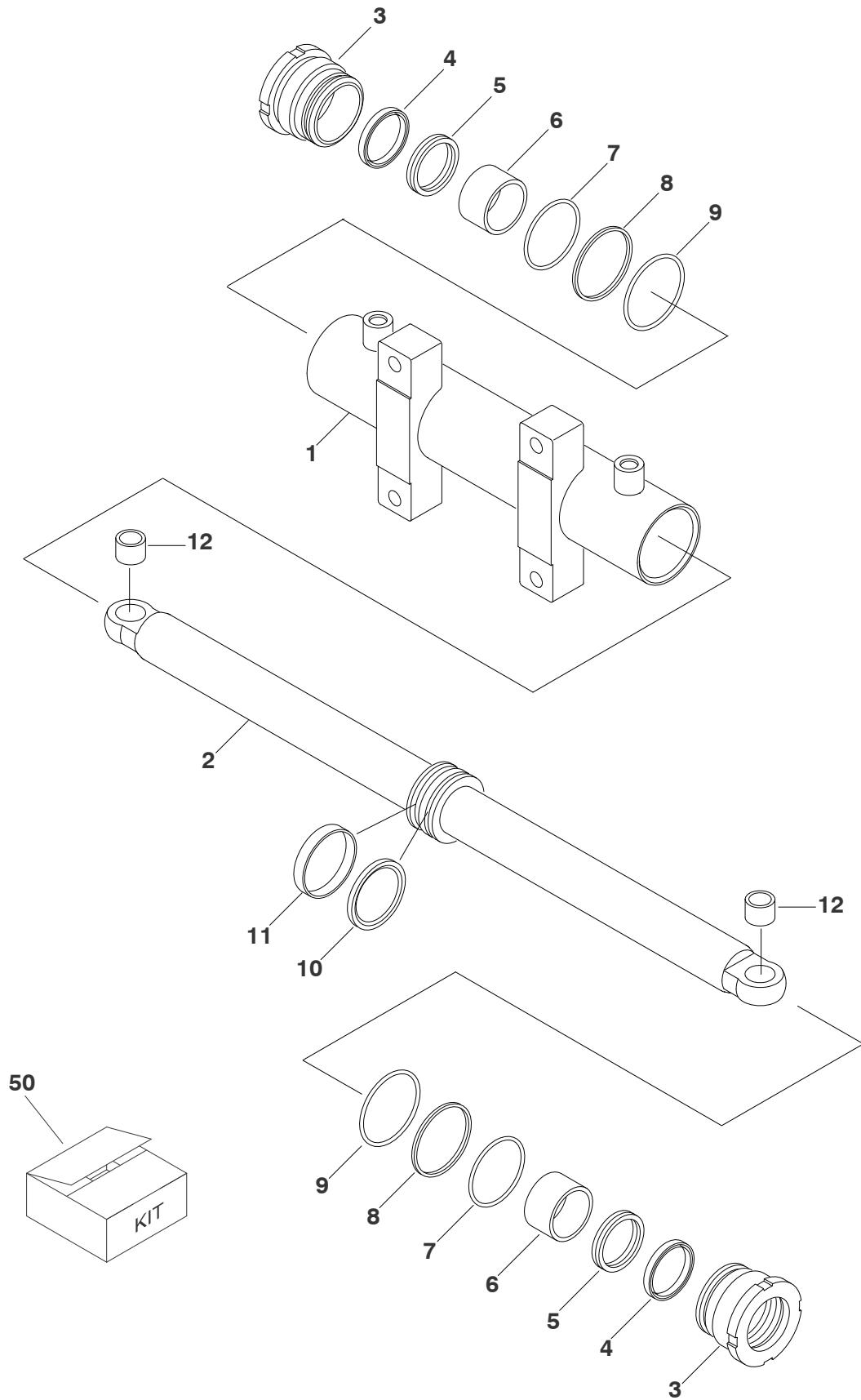
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FIGURE 5-20. ROMANIAN BUILT MACHINES/MASTER CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684241	Ref	MASTER CYLINDER ASSEMBLY	C
1	7026085	1	Barrel	
2	7026086	1	Rod	
3	Not Used			
4	7026081	1	Piston	
5	7026082	1	Head	
6 to 7	Not Used			
8	0961951	4	Bearing	
9	Use 7026087	1	Seal	
10	Use 7026087	1	O-Ring	
11	Not Used			
12	Use 7026087	1	O-Ring	
13	Use 7026087	1	Ring, Back-up	
14	Use 7026087	1	Seal	
15	Use 7026087	1	Wiper	
16 to 17	Not Used			
18	Use 7026087	1	O-Ring	
19	70002216	1	Ring, Retaining	
20	Not Used			
21	Use 7026087	1	O-Ring	
22	Not Used			
23	70002217	1	Ring, Retaining	
24	Not Used			
25	7026087	1	Seal Kit, Cylinder (Includes Items 9, 10, 12-15, 18 & 21)	

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FIGURE 5-21. ROMANIAN BUILT MACHINES/STEER CYLINDER



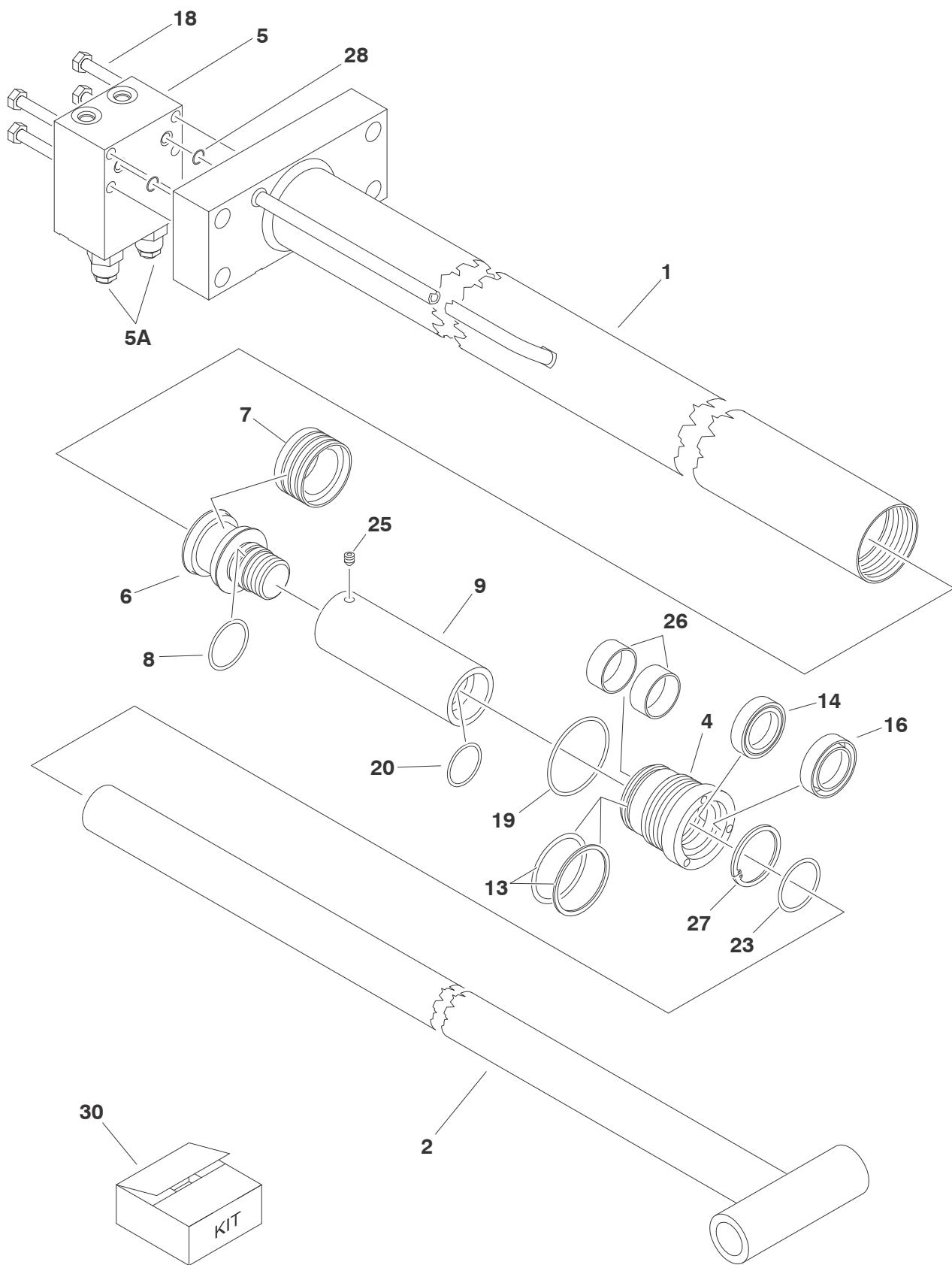
SECTION 5 CYLINDER

FIGURE 5-21. ROMANIAN BUILT MACHINES/STEER CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001143434	Ref	STEER CYLINDER ASSEMBLY	B
1	70003933	1	Barrel	
2	70003934	1	Rod	
3	70003098	2	Head	
4	Use 70003099	2	Wiper	
5	Use 70003099	2	Seal, Rod	
6	Use 70003099	2	Bearing	
7	Use 70003099	2	O-Ring	
8	Use 70003099	2	Ring, Back-up	
9	Use 70003099	2	O-Ring	
10	Use 70003099	1	Seal, Piston	
11	Use 70003099	1	Ring, Wear	
12	Use 70003099	2	Bearing	
<hr/>				
50	70003099	1	Seal Kit - 1001143434 Cylinder (includes Items 4-12)	

SECTION 5 CYLINDER

FIGURE 5-22. ROMANIAN BUILT MACHINES/TELESCOPE CYLINDER



SECTION 5 CYLINDER

FIGURE 5-22. ROMANIAN BUILT MACHINES/TELESCOPE CYLINDER

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1684262	Ref	TELESCOPE CYLINDER ASSEMBLY	B
1	7026108	1	Barrel	
2	7026109	1	Rod	
3	Not Used			
4	7026064	1	Head	
5	70001963	1	Valve Block Assembly w/Cartridges	
5A	7011347	2	Cartridge, Valve	
	2900770	2	Seal Kit - 7011347 Valve (1 Per Assembly)	
6	7026065	1	Piston	
7	Use 7026072	1	Seal	
8	Use 7026072	1	O-Ring	
9	7026066	1	Spacer	
10 to 12	Not Used			
13	Use 7026072	1	O-Ring	
	Use 7026072	1	Ring, Back-up	
14	Use 7026072	1	Seal	
15	Not Used			
16	Use 7026072	1	Wiper	
17	Not Used			
18	7026067	4	Bolt	
19	Use 7026072	1	O-Ring	
20	Use 7026072	1	O-Ring	
21 to 22	Not Used			
23	Use 7026072	1	O-Ring	
24	Not Used			
25	7026069	1	Setscrew	
26	Use 7026072	2	Ring, Wear	
27	70002220	1	Ring, Retaining	
28	70000779	2	O-Ring	
29	Not Used			
30	7026072	1	Seal Kit, Cylinder (Includes Items 7, 8, 13, 14, 16, 19, 20, 23 & 26)	

SECTION 5 CYLINDER

FIGURE 5-22. ROMANIAN BUILT MACHINES/TELESCOPE CYLINDER (CONTINUED)

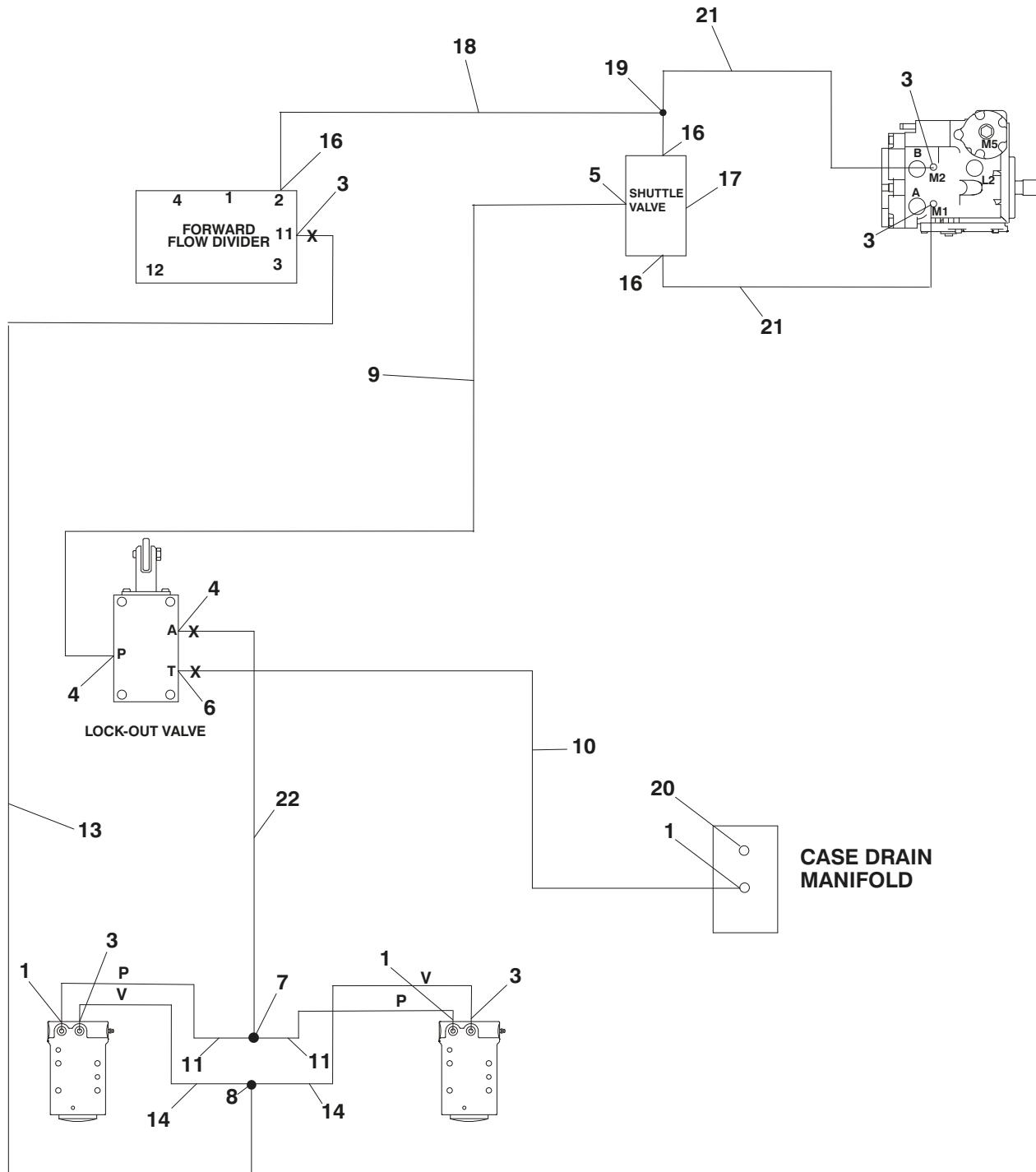
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 6

HYDRAULIC

SECTION 6 HYDRAULIC

FIGURE 6-1.AXLE LOCKOUT HYDRAULIC DIAGRAM - 2WD



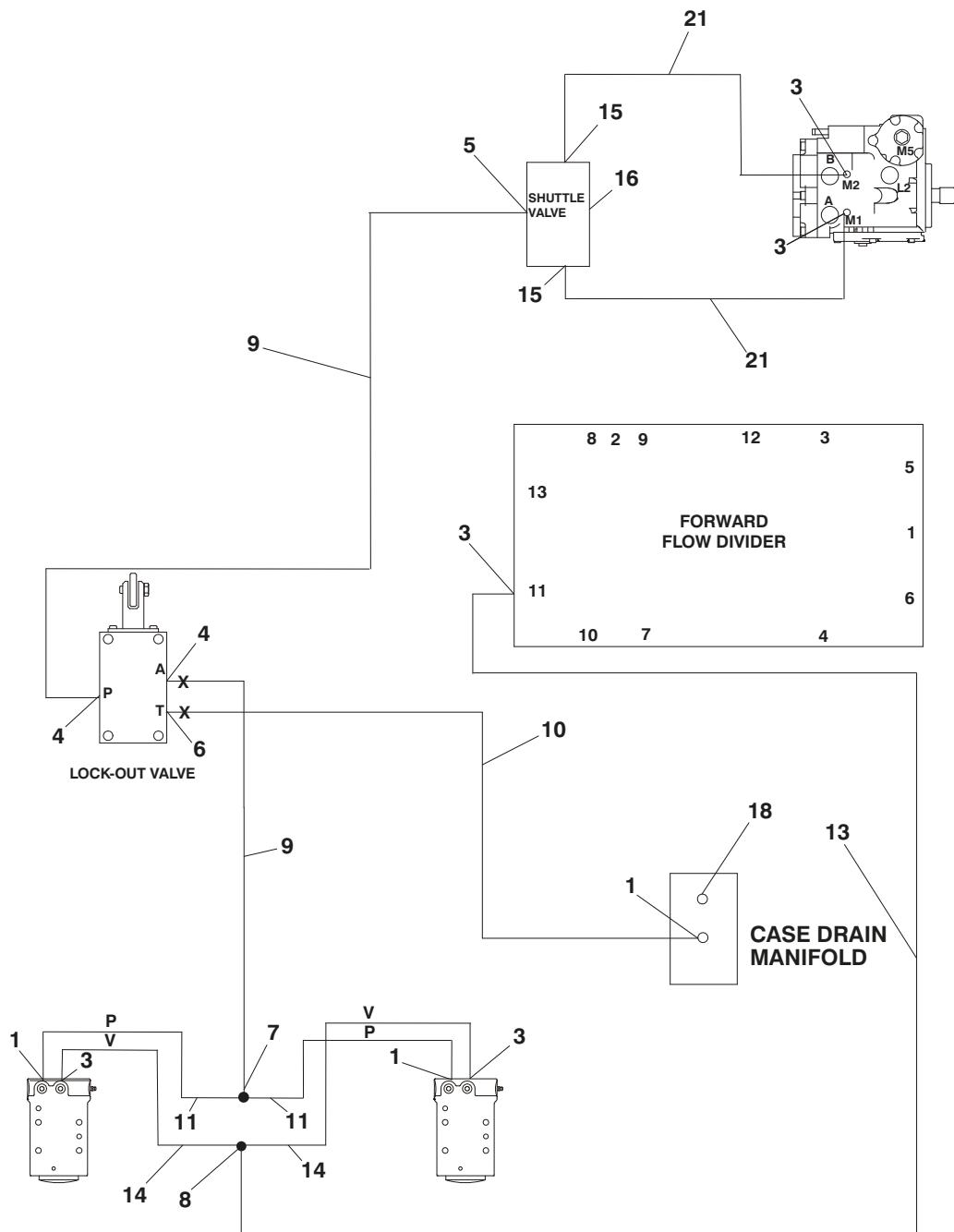
SECTION 6 HYDRAULIC

FIGURE 6-1. AXLE LOCKOUT HYDRAULIC DIAGRAM - 2WD

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001138684	Ref	AXLE LOCKOUT HYDRAULIC DIAGRAM	
		Ref	2WD	B
1	2220415	3	Fitting, Straight	
2	Not Used			
3	2220371	5	Fitting, Straight	
4	2220466	2	Fitting, Elbow	
5	1001138697	1	Fitting, Straight	
6	2220502	1	Fitting, Elbow	
7	2220504	1	Fitting, Tee	
8	2220490	1	Fitting, Tee	
9	1001138688	1	Hose	
10	1001138689	1	Hose	
11	1001138690	2	Hose	
12	Not Used			
13	1001138422	1	Hose	
14	1001138691	2	Hose	
15	Not Used			
16	2220473	3	Fitting, Elbow	
17	8902175	1	Valve, Shuttle	
18	1001138692	1	Hose	
19	2220606	1	Fitting, Tee	
20	2220235	1	Plug #4	
21	1001143486	2	Hose	
22	1001140562	1	Hose	

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FIGURE 6-2. AXLE LOCKOUT HYDRAULIC DIAGRAM - 4WD



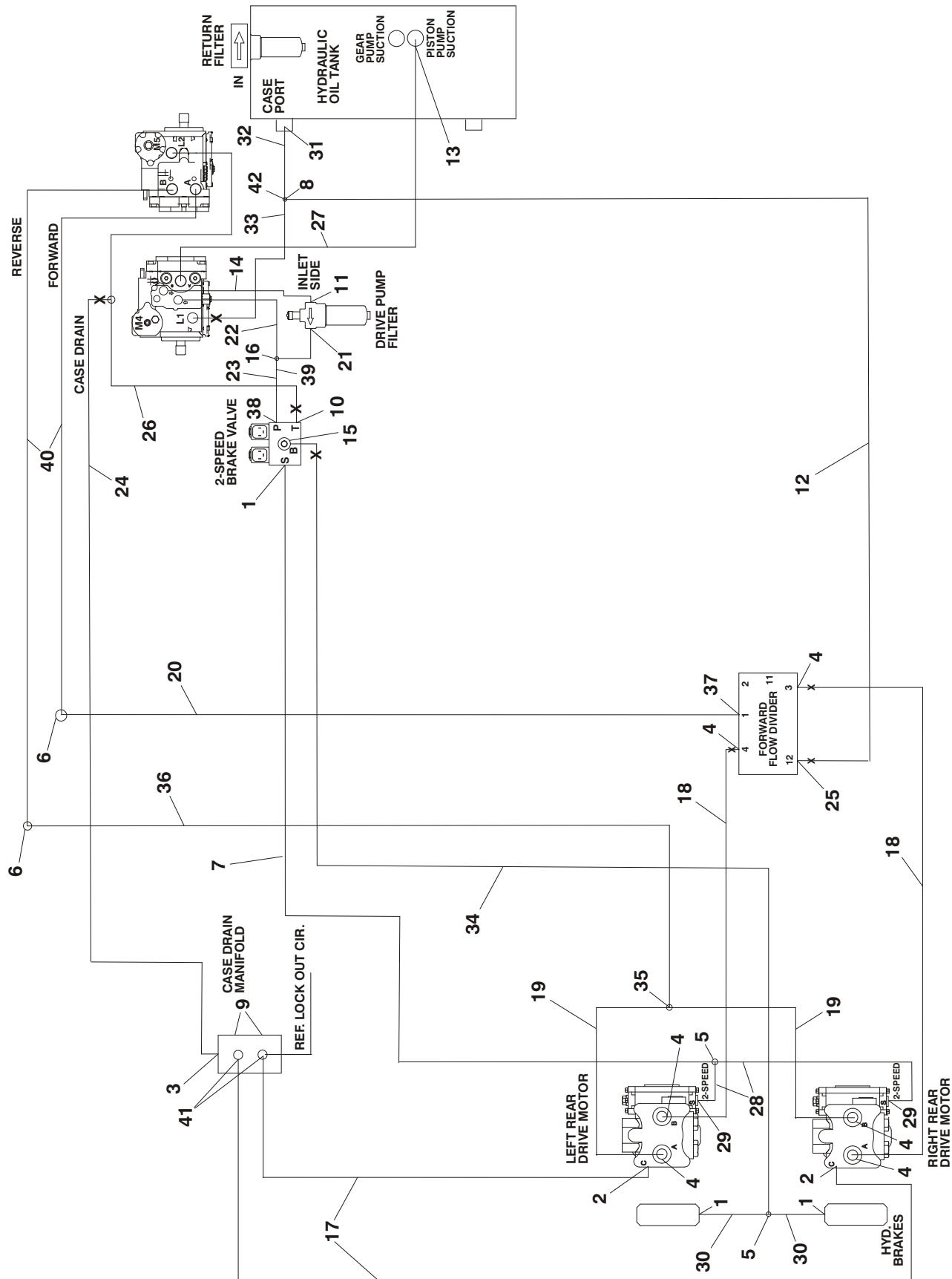
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FIGURE 6-2. AXLE LOCKOUT HYDRAULIC DIAGRAM - 4WD

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	AXLE LOCKOUT HYDRAULIC DIAGRAM	
	1001138685	Ref	USA Built Machines	B
	1001140559	Ref	Romanian Built Machines	B
1	2220415	3	Fitting, Straight	
2	Not Used			
3	2220371	5	Fitting, Straight	
4	2220466	2	Fitting, Elbow	
5	1001138697	1	Fitting, Straight	
6	2220502	1	Fitting, Elbow	
7	2220504	1	Fitting, Tee	
8	2220490	1	Fitting, Tee	
9	1001138688	1	Hose	
10	1001138689	1	Hose	
11		2	Hose Options:	
	1001138690		USA Built Machines	
	1001140537		Romanian Built Machines	
12	Not Used			
13		1	Hose Options:	
	1001138694		USA Built Machines	
	1001140692		Romanian Built Machines	
14		2	Hose Options:	
	1001138691		USA Built Machines	
	1001140693		Romanian Built Machines	
15	2220473	2	Fitting, Elbow	
16	8902175	1	Valve, Shuttle	
17	Not Used			
18	2220235	1	Plug	
19 to 20	Not Used			
21	1001143486	2	Hose	
22		1	Hose Options:	
	1001140562		USA Built Machines	
	1001138688		Romanian Built Machines	

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FIGURE 6-3.DRIVE HYDRAULIC DIAGRAM - 2WD



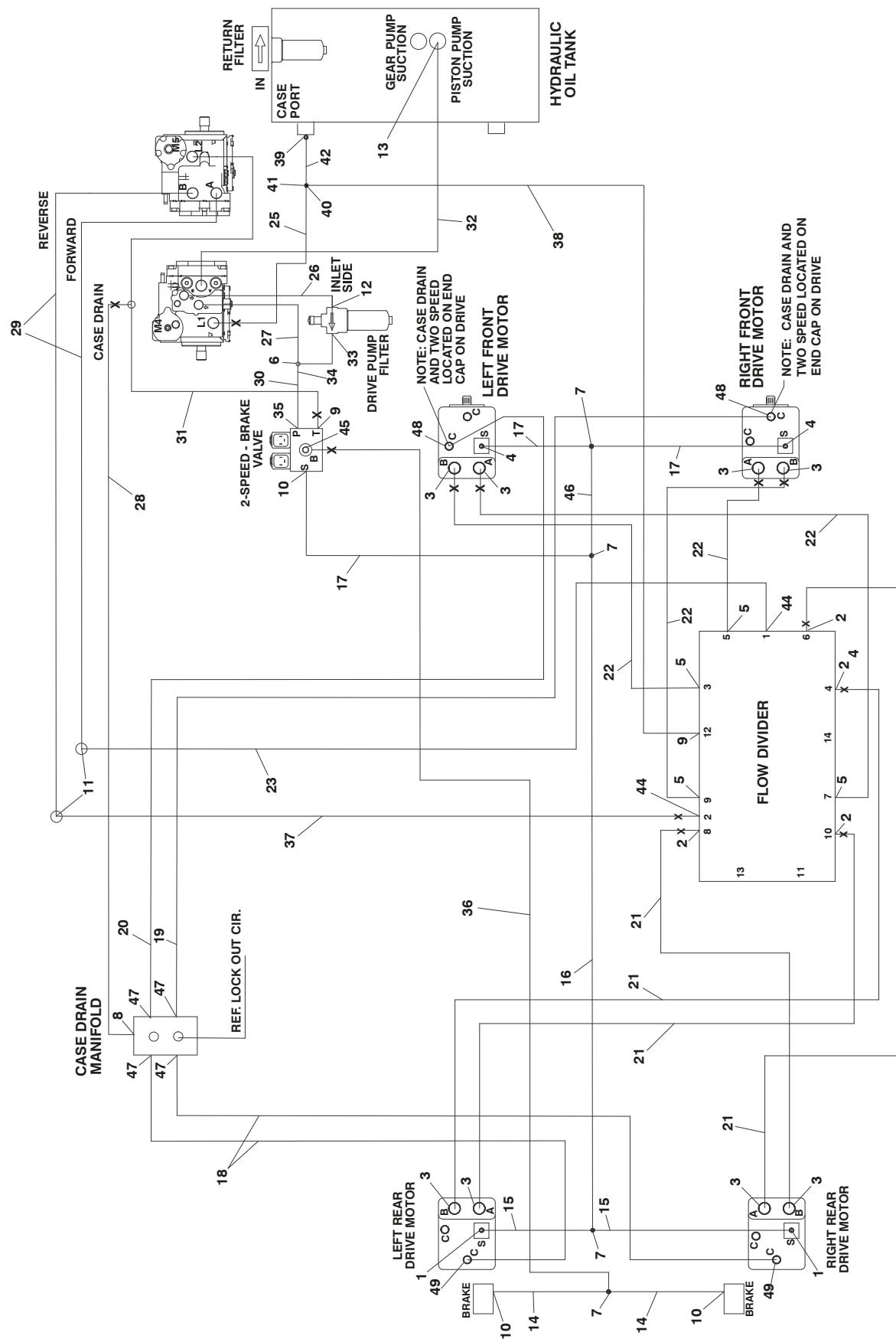
SECTION 6 HYDRAULIC

FIGURE 6-3. DRIVE HYDRAULIC DIAGRAM - 2WD

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001138323	Ref	DRIVE HYDRAULIC DIAGRAM - 2WD	C
1	2220466	3	Fitting, Elbow	
2	2220373	AR	Fitting, Straight	
3	2220366	1	Fitting, Elbow	
4	2110812	6	Fitting, Straight	
5	2220504	2	Fitting, Tee	
6	2221085	2	Fitting, Elbow	
7	1001138595	1	Hose	
8	2220621	1	Fitting, Straight	
9	2220238	2	Plug	
10	2220603	1	Fitting, Straight	
11	2221042	1	Fitting, Elbow	
12	1001140692	1	Hose	
13	1001143501	1	Clamp	
14	1001138415	1	Hose	
15	4641282	1	Valve, Check	
16	2221063	1	Fitting, Tee	
17	1001138596	2	Hose	
18	1001143502	2	Hose	
19	1001143503	2	Hose	
20	2753605	1	Hose	
21	2221216	1	Fitting, Straight	
22		1	Hose Options: 1001138416 SN 0300160835 to SN 0300164343 1001138597 SN 0300164343 to Present	
23	1001138418	1	Hose	
24	1001138417	1	Hose	
25	2220371	AR	Fitting, Straight	
26	1001138419	1	Hose	
27	1001143498	1	Hose	
28	1001143530	2	Hose	
29	2220582	2	Fitting, Straight	
30	1001143529	2	Hose	
31	2220465	1	Fitting, Elbow	
32	1001138423	1	Hose	
33	1001138414	1	Hose	
34	1001138421	1	Hose	
35	2170512	2	Fitting, Tee	
36	1001140682	1	Hose	
37	2111216	1	Fitting, Straight	
38	2220415	1	Fitting, Straight	
39	2220618	1	Fitting, Straight	
40	2753604	2	Hose	
41	2220500	2	Fitting, Elbow	
42	2220481	1	Fitting, Tee	

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FIGURE 6-4.DRIVE HYDRAULIC DIAGRAM - 4WD



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FIGURE 6-4. DRIVE HYDRAULIC DIAGRAM - 4WD

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	DRIVE HYDRAULIC DIAGRAM - 4WD	
		Ref	USA Built Machines without Arctic Package	
	1001138321	Ref	Caterpillar/Deutz/Perkins Engines	D
	1001138324	Ref	GM Engines	C
	1001138322	Ref	USA Built Machines with Arctic Package:	D
	1001138325	Ref	Caterpillar/Deutz/Perkins Engines	C
	1001140484	Ref	GM Engines	E
			Romanian Built Machines	
1	2220582	2	Fitting, Straight	
2	2110808	AR	Fitting, Straight	
3	2110812	8	Fitting, Straight	
4	2220472	AR	Fitting, Elbow	
5	2130808	4	Fitting, Elbow	
6	2221063	1	Fitting, Tee	
7	2220504	4	Fitting, Tee	
8	2220366	1	Fitting, Elbow	
9	2220603	2	Fitting, Straight	
10	2220466	3	Fitting, Elbow	
11	2221085	2	Fitting, Elbow	
12	2221042	1	Fitting, Elbow	
13	1001143501	1	Clamp	
14		2	Hose Options:	
	1001143529		USA Built Machines	
	1001140489		Romanian Built Machines	
15		2	Hose Options:	
	1001143530		USA Built Machines	
	1001140490		Romanian Built Machines	
16		1	Hose Options:	
	1001138407		USA Built Machines	
	1001140491		Romanian Built Machines	
17		3	Hose Options:	
	1001143526		USA Built Machines without Arctic Package	
	1001143496		USA Built Machines with Arctic Package	
	1001140492		Romanian Built Machines	
18		2	Hose Options:	
	1001143490		USA Built Machines	
	1001140494		Romanian Built Machines	
19		1	Hose Options:	
	1001143527		USA Built Machines without Arctic Package	
	1001143527		USA Built Machines with Arctic Package (was p/n 1001140542)	
	1001140495		Romanian Built Machines	

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FIGURE 6-4. DRIVE HYDRAULIC DIAGRAM - 4WD (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
20	1001143527 1001143527	1	Hose Options: USA Built Machines without Arctic Package USA Built Machines with Arctic Package (was p/n 1001140543) Romanian Built Machines	
21	1001140495	4	Hose Options: USA Built Machines: Without Arctic Package Caterpillar/Deutz Engine Machines With Arctic Package GM Engine Machines With Arctic Package	
22	1001143491 1001143491 1001140540 1001103974	4	Romanian Built Machines: Hose Options: USA Built Machines: Without Arctic Package Caterpillar/Deutz Engine Machines With Arctic Package GM Engine Machines With Arctic Package	
23	2753605	1	Romanian Built Machines: Hose	
24	Not Used			
25	1001138414	1	Hose	
26	1001138415	1	Hose	
27	1001138597	1	Hose (was p/n 1001138416)	
28	1001138417	1	Hose	
29	2753604	2	Hose	
30		1	Hose Options: USA Built Machines: Without Arctic Package Caterpillar/Deutz Engine Machines With Arctic Package GM Engine Machines With Arctic Package	
	1001138418 1001138418 1001138598 1001138418		Romanian Built Machines: Hose Options: USA Built Machines Romanian Built Machines	
31	1001138419	1	Hose	
32	1001143498	1	Hose	
33	2221216	1	Fitting, Straight	
34	2220618	1	Fitting, Straight	
35	2220415	1	Fitting, Straight	
36		1	Hose Options: USA Built Machines Romanian Built Machines	
	1001138421 1001140499		Hose Options: USA Built Machines Romanian Built Machines	
37	2753602	1	Hose	
38		1	Hose	
	1001138422 1001140692		Hose Options: USA Built Machines Romanian Built Machines	
39		1	Fitting, Elbow Options: USA Built Machines: Caterpillar/Deutz Engine Machines Without Arctic Package	
	2220465		GM Engine Machines With Arctic Package	
	2220415		With Arctic Package	
	2220465		Romanian Built Machines	
40	2220621	1	Fitting, Straight	

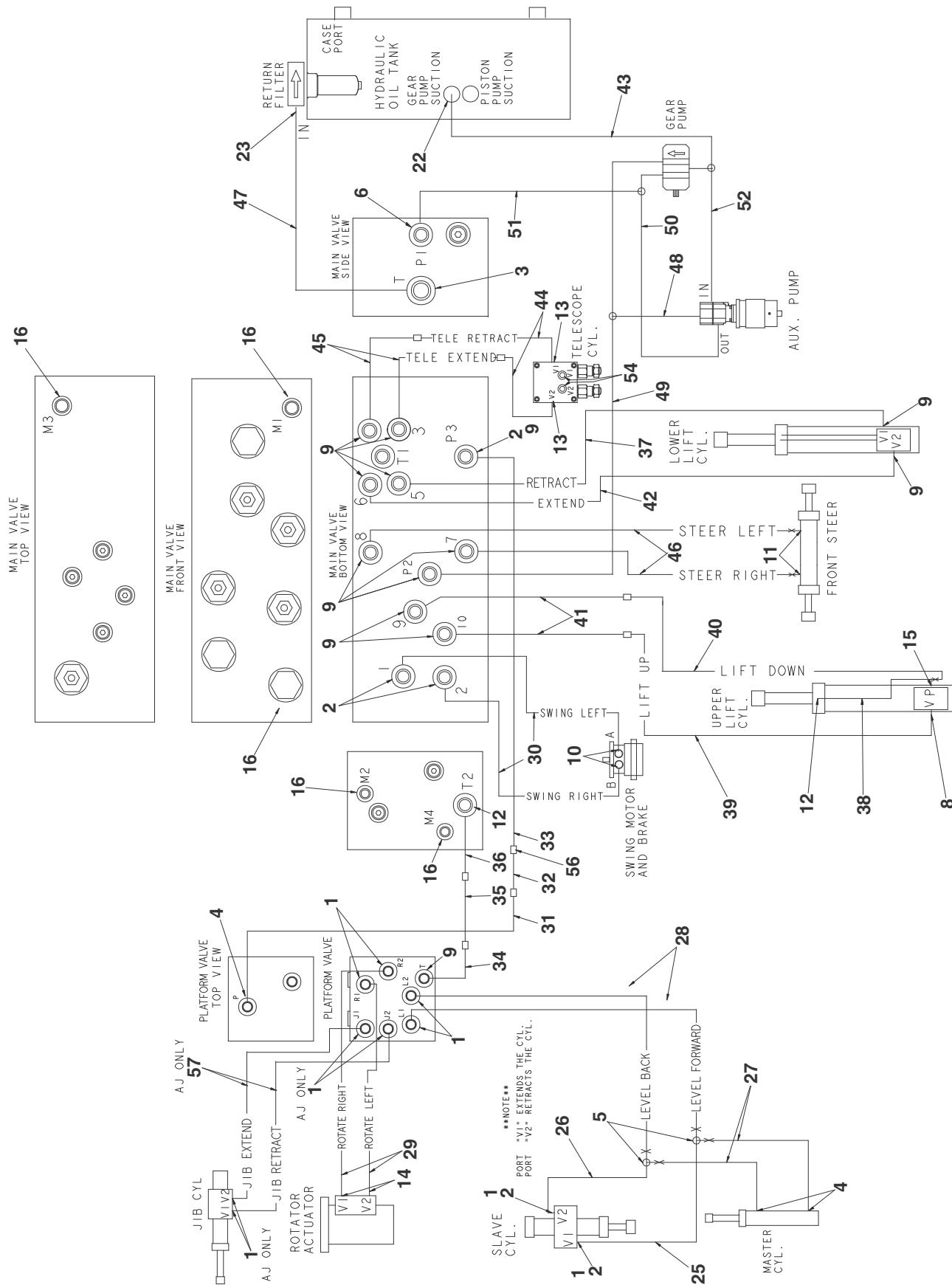
SECTION 6 HYDRAULIC

FIGURE 6-4. DRIVE HYDRAULIC DIAGRAM - 4WD (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
41	2220481	1	Fitting, Tee	
42	1001138423	1	Hose	
43	Not Used			
44	2111212	2	Fitting, Straight	
45		1	Valve, Check Options: USA Built Machines Romanian Built Machines	
	4641281			
	4641282			
46	1001138424	1	Hose	
47	2220500	4	Fitting, Elbow	
48	2220596	2	Fitting, Elbow	
49	2220373	2	Fitting, Straight	

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FIGURE 6-5.STANDARD HYDRAULIC DIAGRAM



SECTION 6 HYDRAULIC

FIGURE 6-5. STANDARD HYDRAULIC DIAGRAM

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
		Ref	STANDARD HYDRAULIC DIAGRAM	
		Ref	USA Built Machines	
	1001138317	Ref	450A Series II (Caterpillar/Deutz Engine Machines)	E
	1001138319	Ref	450A Series II (GM Engine Machines)	E
	1001138318	Ref	450AJ Series II (Caterpillar/Deutz Engine Machines)	E
	1001138320	Ref	450AJ Series II (GM Engine Machines)	E
		Ref	Romanian Built Machines	
	1001138897	Ref	Main Boom Hydraulics	C
	1001138894	Ref	Tower Boom Hydraulics	E
	1001138577	Ref	Turntable Hydraulics	E
1	2220415	AR	Fitting, Straight	
2	2220582	AR	Fitting, Straight	
3	2220451	1	Fitting, Straight	
4	2220472	AR	Fitting, Elbow	
5	2220504	2	Fitting, Tee	
6	2220500	1	Fitting, Elbow	
7	Not Used			
8	2220819	1	Fitting, Long Elbow	
9	2220371	AR	Fitting, Straight	
10	2221033	2	Fitting, Straight	
11	2220501	2	Fitting, Long Straight	
12	2220473	AR	Fitting, Elbow	
13	2220628	2	Fitting, Elbow (USA Built Machines Only - Part of Telescope Cylinder)	
14	2220502	2	Fitting, Elbow	
15	2220899	1	Fitting, Tee	
16	2221086	AR	Fitting, Pressure, Check	
17 to 21	Not Used			
22	1001143501	1	Clamp	
23	2220435	1	Fitting, Straight	
24	Not Used			
25		1	Hose Options: 450A Series II USA Built 450AJ Series II Romanian Built 450AJ Series II	
26	1001138283	1	Hose Options: 450A Series II 450AJ Series II	
27	1001138601	2	Hose Options: 450A Series II 450AJ Series II	
28	1001138284	2	Hose Options: 450A Series II 450AJ Series II	
29	1001138608	2	Hose Options: 450A Series II 450AJ Series II	
	1001138285	2	Hose	
	1001138609			
	1001138286	2		

SECTION 6 HYDRAULIC

FIGURE 6-5. STANDARD HYDRAULIC DIAGRAM (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
30	1001138287 1001138595	AR	Hose options: USA Built Machines Romanian Built Machines	
31	1001138288 1001146523 1001138610 1001146526 1001136526	1	Hose Options: USA Built Machines 450A Series II (SN 0300160835 to SN 0300166432) 450A Series II (SN 0300166432 to Present) 450AJ Series II (SN 0300160835 to SN 0300166432) 450AJ Series II (SN 0300166432 to Present) Romanian Built Machines	
32	1001139289 1001146524 1001136524	1	Hose Options: USA Built Machines SN 0300160835 to SN 0300166432 USA Built Machines SN 0300166432 to Present Romanian Built Machines	
33	1001138290 1001146808 1001146808	1	Hose Options: USA Built Machines SN 0300160835 to SN 0300166432 USA Built Machines SN 0300166432 to Present Romanian Built Machines	
34	1001138291 1001138611	1	Hose Options: 450A Series II 450AJ Series II	
35	1001138292	1	Hose	
36	1001138293	1	Hose	
37	1001138294	1	Hose	
38	4566188 4567946	1	Tube Options: 450A Series II 450AJ Series II	
39	1001138296	1	Hose	
40	1001138297	1	Hose	
41	1001138298	1	Hose	
42	1001138299	1	Hose	
43	1001143497 1001143499	1	Hose Options: USA Built Machines Romanian Built Machines	
44	1001138301	1	Hose	
45	1001138302	1	Hose	
46	1001138303 1001138605	1	Hose Options: USA Built Machines Romanian Built Machines	
47	1001143485	1	Hose	
48	1001138305	1	Hose	
49	1001138306	1	Hose	
50	1001138307	1	Hose	
51	1001141595	1	Hose	
52	1001138309	1	Hose	
53	1705091	1	Decal, Hose Tags (Not Shown)	
54	2220473	2	Fitting, Elbow (Romanian Built Machines Only)	

SECTION 6 HYDRAULIC

FIGURE 6-5. STANDARD HYDRAULIC DIAGRAM (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
55	Not Required	AR	Fitting, Tee Options (Not Shown): Caterpillar/Deutz/Perkins Engines	
	2220635	0	GM Engines	
56	2230021	1	Fitting, Adapter (SN 0300166432 to Present)	
57	1001138287	AR	Hose (450AJ Series II Only)	

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FIGURE 6-6. HYDRAULIC DIAGRAM LIST

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Note: Diagrams with asterisk (*) are shown in the preceding pages. Information on diagrams not shown is available from JLG Customer Service Department.	Ref
		Ref	USA Built Machines use SNs 03xxxxxxxx.	
		Ref	Romanian Built Machines use SNs E3xxxxxxxx.	
	1001138686/ 1001138579 2792784/ 1001138579	Ref Ref Ref	Axle (Fixed) Hydraulic Diagrams: 2WD Machines 4WD Machines	
	1001138684/ 1001138579* 1001138685/ 1001138579*	Ref Ref Ref	Axle (Oscillating) Hydraulic Diagrams: 2WD Machines 4WD Machines	
	1001138897 1001138579*	Ref	Boom (Main) Hydraulic Diagram (Romanian Built Machines)	
	1001138894 1001138579*	Ref	Boom (Tower) Hydraulic Diagram (Romanian Built Machines)	
	1001138323/ 1001138579* 1001138321/ 1001138579* 1001138324/ 1001138579* 1001138322/ 1001138579* 1001138325/ 1001138579* 1001140484 1001138579*	Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref	Drive Hydraulic Diagrams: USA Built Machines 2WD Machines 4WD Machines without Arctic Package Caterpillar/Deutz/Perkins Engines GM Engines 4WD Machines with Arctic Package Caterpillar/Deutz/Perkins Engines GM Engines Romanian Built Machines	
	1001142868 1001142867 1001147052	Ref Ref Ref	Oil Cooler Hydraulic Diagrams: Caterpillar/Perkins Engines Deutz D2011/GM Engines Deutz D2011TD2.9L4 Engines	

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ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Standard Hydraulic Diagrams:	
	1001138317/	Ref	USA Built Machines	
	1001138579*	Ref	450A Series II (Caterpillar/Deutz Engine Machines)	
	1001138319/	Ref	450A Series II (GM Engine Machines)	
	1001138579*	Ref	450AJ Series II (Caterpillar/Deutz Engine Machines)	
	1001138318/	Ref	450AJ Series II (GM Engine Machines)	
	1001138579*	Ref	Romanian Built Machines	
	1001138320	Ref		
	1001138579*	Ref		
	1001138577	Ref		
	1001138579*	Ref		
	2792780	Ref	Standard Hydraulic Schematic	
	1001138687/	Ref	Tow Hydraulic Diagram	
	1001138579	Ref		

SECTION 6 HYDRAULIC

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 7

ELECTRICAL

SECTION 7 ELECTRICAL

FIGURE 7-1. ELECTRICAL DIAGRAM LIST

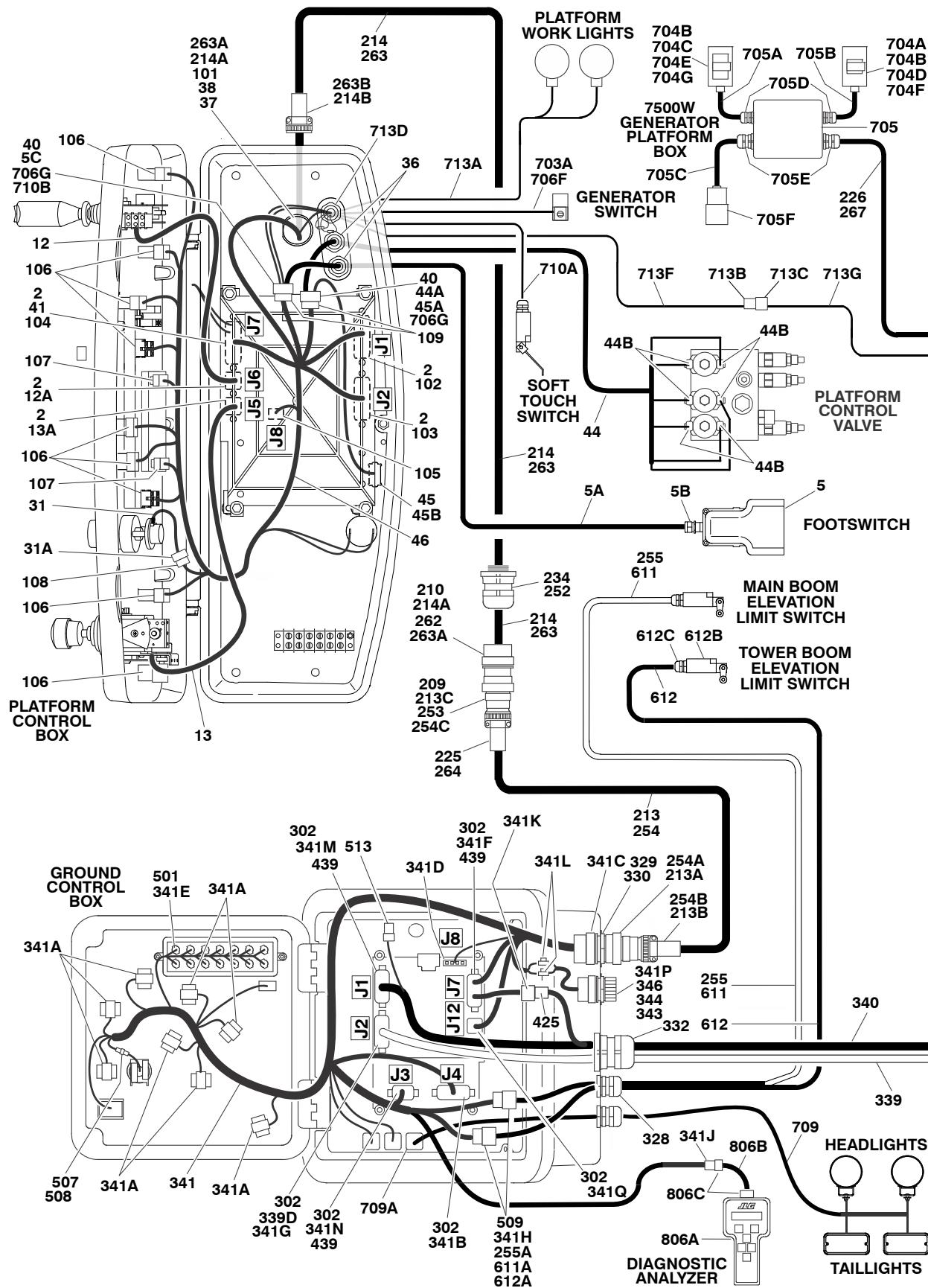
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	GENERATOR ELECTRICAL DIAGRAM (2500W)	
		Ref	Note: For Diagram for Machines with 7500W SkyPower Generator, see JLG Supplement P/N 3124242.	
		Ref	Caterpillar/Deutz Engine Machines	
	1001112588	Ref	110V/60Hz	
	1001112743	Ref	110V/50Hz & 220V/50Hz	
	4933350	Ref	GM Engine Machines	
		Ref		
		Ref	GROUND CONTROL BOX ELECTRICAL DIAGRAMS	
	1001141934	Ref	Caterpillar Engine Machines	
	1001141932	Ref	Deutz Engine Machines	
	1001141933	Ref	GM Engine Machines	
		Ref		
	4933219	Ref	HEADLIGHTS & TAILLIGHTS ELECTRICAL DIAGRAM	
		Ref		
	0273495	Ref	PLATFORM WORKLIGHTS ELECTRICAL DIAGRAM	
		Ref		
	4933218	Ref	SOFT TOUCH ELECTRICAL DIAGRAM	
		Ref		
			STANDARD ELECTRICAL SCHEMATICS	
	1001141989	Ref	Caterpillar/Deutz/GM Engine Machines (USA Built Machines)	
	1001108879	Ref	Caterpillar/Deutz Engine Machine (Romanian Built Machines)	
	1001131992	Ref	GM Engine Machines (Engine Schematic Only. P/N 1001141989 is schematic for complete machine.)	

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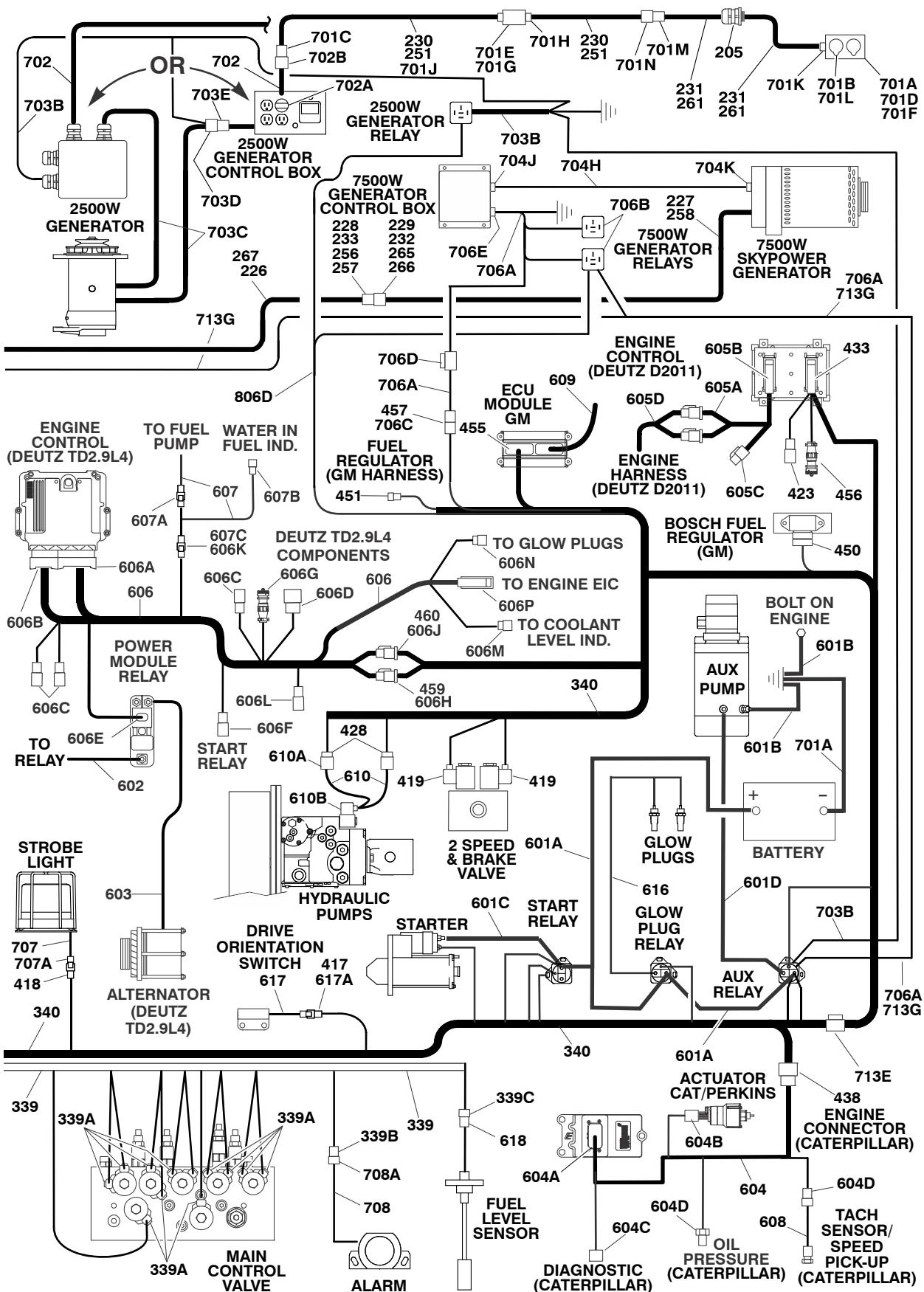
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 7 ELECTRICAL

FIGURE 7-2. HARNESS COMPONENTS INSTALLATION



SECTION 7 ELECTRICAL



SECTION 7 ELECTRICAL

FIGURE 7-2. HARNESS COMPONENTS INSTALLATION

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	HARNESS COMPONENTS INSTALLATION	
	1001139202	Ref	PLATFORM CONSOLE BOX COMPONENTS	B
1	Not Used			
2	0100048	AR	Grease, Dielectric	
3 to 4	Not Used			
5	1001117174	Ref	Footswitch Components	B
5A	1060918	7.5ft/2.3m	Cable, Electrical - 18/3	
5B	4460071	1	Connector, Strain Relief	
5C	4460226	2	Socket, Female	
	4460464	1	Pin, Male Deutsch	
6 to 11	Not Used			
12	7022824	1	Controller Harness/Circuit Board Assembly (Drive and Steer)	
12A	1001113961	1	Connector - 8 Position (Black)	
	4460871	7	Socket, Female	
13	See Note	1	Controller Harness Assembly (Lift and Swing) (Note: Not Available - Purchase Complete Controller)	
13A	7022819	1	Connector - 8 Position (Natural)	
	4460871	8	Socket, Female	
14 to 30	Not Used			
31	See Note	1	Controller Harness Assembly (Speed Control) (Note: Not Available - Purchase Complete Controller)	
31A	4460224	1	Connector - 6 Position	
	4460226	8	Socket, Female	
32 to 35	Not Used			
36	4460428	2	Connector, Strain Relief	
37	4460470	1	Nut, Terminal	
38	4460471	1	Lockwasher, Terminal	
39	Not Used			
40	4460708	2	Connector - 15 Position	
41	4460905	5	Seal, Plug (USA Built Machines SN 0300160835 to SN 0300177675 & Romanian Built Machines SN B300001114 to SN E300001356)	
42 to 43	Not Used			
44	1001139135	1	Harness, Upper Valve	A
44A	4460226	7	Socket, Female	
44B	4460891	6	Plug, Male - 2 Position	
	1001116692	12	Socket, Female	
45	4922666	1	Harness, Analyzer Cable	2/B
45A	4460226	4	Socket, Female	
45B	4460761	1	Connector, Female - 4 Position	
	4460227	4	Pin, Male	
46	1001107007	1	Harness, Platform Box (See Items 101-109 for Breakdown)	
	1001107007	Ref	PLATFORM BOX HARNESS ASSEMBLY	C
101	4460866	1	Connector - 19 Position	
	4460464	7	Pin, Male Deutsch 16 Ga	
	4460508	3	Pin, Male Deutsch 12 Ga	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
102	4460874	1	Connector - 35 Position (Natural)	
	4460871	29	Socket, Female	
103	4460875	1	Connector - 35 Position (Gray)	
	4460871	26	Socket, Female	
104	4460873	1	Connector - 35 Position (Black)	
	4460871	26	Socket, Female	
105	4460879	1	Connector, Male 2 Position	
	4460887	2	Terminal (12 Gauge)	
106	4460418	8	Connector, Female - 6 Position	
	4460419	24	Socket, Female	
107	4460225	4	Connector - 6 Position	
	4460226	18	Socket, Female	
108	4460225	1	Connector - 6 Position	
	4460227	5	Pin, Male	
109	4460434	2	Connector - 15 Position	
	4460227	25	Pin, Male	
		Ref	BOOM CABLES INSTALLATION (USA BUILT MACHINES)	
		Ref	450A Series II:	
	0271311	Ref	Without SkyPower (ANSI, ANSI Export & CSA Specs)	J
	0271310	Ref	Without SkyPower (Australian & CE Specs)	J
	0273279	Ref	With SkyPower	C
	1001097502	Ref	With Arctic Package	A
	1001097503	Ref	With Arctic Package with SkyPower	A
		Ref	450AJ Series II (USA Built Machines):	
	0271122	Ref	Without SkyPower (ANSI, ANSI Export & CSA Specs)	J
	0271206	Ref	Without SkyPower (Australian & CE Specs)	J
	1001115917	Ref	Without SkyPower with Communication Package	A
	0273280	Ref	With SkyPower	C
	1001116516	Ref	With SkyPower with Communication Package	A
	0275116	Ref	With Arctic Package	C
	0275786	Ref	With Arctic Package with SkyPower	C
201 to 204	Not Used			
205	4460425	1	Connector, Strain Relief (Without SkyPower Only)	
206 to 208	Not Used			
209	4460865	1	Connector - 19 Position	
	2820031	AR	Heat Shrink	
210	4460866	1	Connector - 19 Position	
	2820031	AR	Heat Shrink	
211 to 212	Not Used			
213		1	Harness Assembly - Tower Boom (12/4 - 18/8) Options:	
	4922530		Without Arctic Package	3/D
	4923458		With Arctic Package	1/A
		34ft/10.4m	Cable, Electrical - 12/4&18/8 Options:	
	1060896		Without Arctic Package	
	4923462		With Arctic Package Only	
	2820118	6in/15cm	Heat Shrink	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
213A	4460865 4460465 4460509 4460466	1 11 4 4	Connector - 19 Position Socket, Female 18 Gauge Socket, Female 12 Gauge Seal, Plug	
213B	4460473	1	Clamp, Cable	
213C	4460464 4460508	11 4	Pin, Male 18 Gauge Pin, Male 12 Gauge	
214	4922531 1001097504 4922532 4923459	1	Harness Assembly - Main Boom (12/4 -18/8) Options: 450A without Arctic Package 450A with Arctic Package & Arctic Package with Sky-Power 450AJ without Arctic Package 450AJ with Arctic Package & Arctic Package with SkyPower	2/B 1/A B 1/A
	1060896 4923462 2820118	29ft/8.84m 28ft/8.5m 6in/15cm	Cable, Electrical - 12/4&18/8 Options: Without Arctic Package With Arctic Package Heat Shrink	
214A	4460865 4460465 4460509 4460466	2 22 8 4	Connector - 19 Position Socket, Female 18 Gauge Socket, Female 12 Gauge Seal, Plug	
214B	4460473	1	Clamp, Cable	
215 to 224	Not Used			
225	4460473	1	Clamp, Cable	
226	Not Required 4922929 4922929	AR 0 0 1 1	Cable, Electrical 8/5 - SkyPower Main Boom Options: Without SkyPower With Arctic Package With SkyPower With Arctic Package and SkyPower	
227	Not Required 4922857	0 1	Cable, Electrical 8/5 - SkyPower Tower Boom Options: Without SkyPower With SkyPower	
228	1671092	1	Cover, Female Connector (With SkyPower Only)	
229	1671093	1	Cover, Male Plug (With SkyPower Only)	
230		1	Cable, Electrical 12/3 Options: Machines Without Arctic Package or SkyPower ANSI, ANSI Export & CSA Specs Australian & CE Specs	
	1060987 1060989		Machines With Arctic Package and/ or SkyPower With Arctic Package With Arctic Package with SkyPower With SkyPower	
	4923460 Not Required Not Required		Cable, Electrical 12/3 Options: Machines Without Arctic Package or SkyPower ANSI, ANSI Export & CSA Specs Australian & CE Specs	
231	1060988 1060990 4923461 Not Required	1	Machines With Arctic Package and/ or SkyPower With Arctic Package With Arctic Package with SkyPower	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
231 cont'd	Not Required		With SkyPower	
232	4460960	1	Plug, Female (With SkyPower Only)	
233	4460959	1	Connector, Male (With SkyPower Only)	
234		1	Connector, Strain Relief	
	1321692		Without Arctic Package	
	1321692		With SkyPower Only	
	1321692		450A Series II With Arctic Package & Arctic Package with SkyPower	
		1	Connector, Strain Relief (continued):	
	1321694		450AJ Series II With Arctic Package & Arctic Package with SkyPower	
	1321692		450AJ Series II With Communication Package	
	1321694		450AJ Series II With Communication Package with SkyPower	
235	1001115713	1	Cable, Communication (Tower Boom) (450AJ Series II With Communication Package Only) (Not Shown)	
236	1001115916	1	Cable, Communication (Main Boom) (450AJ Series II With Communication Package Only) (Not Shown)	
		Ref	BOOM CABLES INSTALLATION (MAIN BOOM) (ROMANIAN BUILT MACHINES)	
	0272594	Ref	Tower Boom Components without SkyPower	D
	0275436	Ref	Tower Boom Components with SkyPower	D
251	1060991	1	Cable, Electrical 12/3 (Without SkyPower Only)	
252			Connector, Strain Relief Options:	
	4460425	2	Without SkyPower	
	1321692	1	With SkyPower	
253	4460866	1	Connector - 19 Position	
	2820031	AR	Heat Shrink	
254	4922530	1	Harness Assembly - Tower Boom (12/4 - 18/8)	3/D
	1060896	34ft/10.4m	Cable, Electrical - 12/4 & 18/8	
	2820118	6in/15cm	Heat Shrink	
254A	4460865	1	Connector - 19 Position	
	4460465	11	Socket, Female 18 Gauge	
	4460509	4	Socket, Female 12 Gauge	
	4460466	4	Seal, Plug	
254B	4460473	1	Clamp, Cable	
254C	4460464	11	Pin, Male 18 Gauge	
	4460508	4	Pin, Male 12 Gauge	
255	4922770	1	Cable, Electrical 18/2	
255A	4460226	2	Socket, Female	
256	1671093	1	Cover, Male Plug (With SkyPower Only)	
257	4460960	1	Plug, Female (With SkyPower Only)	
258		AR	Cable, Electrical 8/5 - SkyPower Tower Boom Options:	
	Not Required	0	Without SkyPower	
	4922857	1	With SkyPower	
259 to 260	Not Used			

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	0272665 0275437	Ref Ref	Main Boom Components without SkyPower Main Boom Components with SkyPower	C B
261	1060996	1	Cable, Electrical 12/3	
262	4460865	1	Connector - 19 Position	
263	4922532 1060896 2820118	1 29ft/8.84m 6in/15cm	Harness Assembly - Main Boom (12/4 -18/8) Cable, Electrical - 12/4 &18/8 Heat Shrink	B
263A	4460865 4460465 4460509 4460466	2 22 8 4	Connector - 19 Position Socket, Female 18 Gauge Socket, Female 12 Gauge Seal, Plug	
263B	4460473	1	Clamp, Cable	
264	4460473	1	Clamp, Cable	
265	1671092	1	Cover, Female Connector (With SkyPower Only)	
266	4460959	1	Connector, Male (With SkyPower Only)	
267	Not Required 4922929	AR 0 1	Cable, Electrical 8/5 - SkyPower Main Boom Options: Without SkyPower With SkyPower	
		Ref	GROUND CONTROL BOX COMPONENTS	
301	Not Used			
302	0100048	AR	Grease, Dielectric	
303 to 327	Not Used			
328	4460426 3520035	1 AR	Connector, Strain Relief Plug	
329	4460470	1	Nut, Terminal	
330	4460471	1	Locknut, Terminal	
331	Not Used			
332	4460526	1	Connector, Strain Relief	
333 to 338	Not Used			
339	1001138588	1	Valve Harness Assembly	
339A	4460891 1001116692	12 24	Plug, Male - 2 Position Socket, Female	
339B	4460539 1001116692	1 2	Plug, Male - 3 Position Socket, Female	
	4460518	1	Seal, Plug	
339C	4460424	1	Connector, Female - 2 Position	
	4460268	2	Socket, Female	
339D	4460871	21	Socket, Female	
340	1001139084 1001139085 1001147004 1001139086	1	Engine Harness Assembly (See Items 401-460 for Breakdown) Caterpillar Engine Machines Deutz D2011 Engine Machines Deutz TD2.9L4 Engine Machines GM Engine Machines	D

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
341		1	Ground Control Box Harness Assembly Options: All Machines except Deutz TD2.9L4 Engines Deutz TD2.9L4 Engines	
	1001105636			D
	1001147005			A
	3990010	2	Diode 6 Amp (Not Shown)	
341A	4460418	9	Connector, Female - 6 Position	
	4460419	27	Socket, Female	
341B	4460876	1	Connector - 35 Position (Blue)	
	4460871	28	Socket, Female	
	4460905	31	Seal, Plug	
341C	4460866	1	Connector - 19 Pin	
	4460464	7	Pin, Male Deutsch 16 Ga	
	4460508	3	Pin, Male Deutsch 12 Ga	
341D	4460878	1	Housing, Terminal - 4 Position	
	4460887	3	Terminal (12 Gauge)	
341E	4120035	6	Base, Light	
	4460634	7	Terminal (16 Gauge)	
	4460635	5	Terminal (12 Gauge)	
341F	4460873	1	Connector - 35 Position (Black)	
	4460871	21	Socket, Female	
	4460905	2	Seal, Plug	
341G	4460875	1	Connector - 35 Position (Gray)	
	4460871	3	Socket, Female	
341H	4460434	2	Connector - 15 Position	
	4460227	22	Pin	
341J	4460761	1	Connector, Female - 4 Position	
	4460227	4	Pin, Male	
341K	4460536	1	Connector, Female - 3 Position	
	4460943	3	Pin	
341L	8229242	2	Fuse 5A	
	2400060	2	Holder, Fuse	
341M	4460874	1	Connector, Natural	
	4460871	8	Socket, Female	
	4460905	AR	Plug, Seal	
341N	1001106339	1	Connector, Male - 14 Position	
	4460871	2	Socket, Female	
	4460905	AR	Plug, Seal	
341P	1001112612	1	Connector - 9 Position	
	4460943	4	Socket, Female	
341Q	1001106340	1	Connector, Male - 14 Position	
	4460871	5	Socket, Female	
342		Ref	Ground Control Box Wiring Diagram (Not Shown - See Items 501 to 513 for Breakdown)	
	1001141934	Ref	Caterpillar Engine Machines	
	1001141932	Ref	Deutz D2011 Engine Machines	
	1001147006	Ref	Deutz TD2.9L4 Engine Machines	
	1001141933	Ref	GM Engine Machines	
343	4460497	1	Nut, Terminal	
344	4460496	1	Locknut, Terminal	
345	Not Used			
346	1001106736	1	Cap, Dust	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
			ENGINE HARNESS ASSEMBLY	
	1001139084	Ref	Caterpillar Engine Machines	B
	1001139085	Ref	Deutz D2011 Engine Machines	B
	1001147004	Ref	Deutz TD2.9L4 Engine Machines	C
	1001139086	Ref	GM Engine Machines	B
401 to 416	Not Used			
417	4460424	1	Connector - 2 Position	
	4460226	2	Socket, Female	
418	4460897	1	Connector - 2 Position	
	4460464	2	Socket, Female	
419	4460891	2	Plug, Male - 2 Position	
	1001116692	4	Socket, Female (All except Deutz DT2.9L4)	
	1001116692	4	Socket, Female (Deutz DT2.9L4 Only)	
420 to 422	Not Used			
423	4461070	1	Receptacle with Resistor (Deutz D2011 Engine Machines Only)	
	4460944	3	Terminal, Gold (Deutz D2011 Engine Machines Only)	
	4461095	1	Connector - 3 Position (Deutz D2011 Engine Machines Only)	
424	Not Used			
425	4460539	1	Connector - 3 Position	
	4460944	3	Terminal, Gold	
426 to 427	Not Used			
428	4460742	2	Connector - 2 Position	
	4460457	4	Terminal, Female	
	4460458	4	Seal, Terminal	
429 to 432	Not Used			
433	4461052	1	Connector - 25 Position (Deutz D2011 Engine Machines Only)	
	4461005	5	Terminal 18-20 Gauge (Deutz D2011 Engine Machines Only)	
	4461060	2	Terminal 14-16 Gauge (Deutz D2011 Engine Machines Only)	
	4461006	5	Seal 18-20 Gauge (Deutz D2011 Engine Machines Only)	
	4461054	2	Seal 14-16 Gauge (Deutz D2011 Engine Machines Only)	
	4461008	18	Plug, Hole (Deutz D2011 Engine Machines Only)	
	4461053	1	Cover, Plug (Deutz D2011 Engine Machines Only)	
434 to 437	Not Used			
438	4460899	1	Connector - 6 Position (Caterpillar Engine Machines Only)	
	4460464	5	Pin, Male (Caterpillar Engine Machines Only)	
	4460466	1	Seal, Plug (Caterpillar Engine Machines Only)	
439	4460871	AR	Socket, Female	
440 to 449	Not Used			
450	4461121	1	Connector - 4 Position (GM Engine Machines Only)	
	4461122	4	Socket, Female (GM Engine Machines Only)	
	4461123	4	Seal, Terminal (GM Engine Machines Only)	
451	4461124	1	Connector - 4 Position (GM Engine Machines Only)	
	4460693	4	Pin, Male (GM Engine Machines Only)	
	4460608	4	Seal, Terminal (GM Engine Machines Only)	
	4461161	1	Lock, Terminal (GM Engine Machines Only)	
452 to 454	Not Used			

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
455	4461109	1	Connector - 16 Position (GM Engine Machines Only)	
	4461111	7	Pin, Male (GM Engine Machines Only)	
	4461113	7	Seal, Terminal (GM Engine Machines Only)	
	4461222	9	Terminal, Cavity Plug (GM Engine Machines Only)	
456	2902443	1	Receptacle Kit (Deutz Engine Machines Only)	
	4461071	8	Socket, Female (Gold)	
	4461072	1	Receptacle 8 Position with Mounting Flange	
	4461073	1	Cap, Dust	
	4461074	1	Shell	
457	4461157	1	Connector - 2 Position	
	4460979	2	Pin, Male	
	4460458	2	Seal, Terminal	
458	Not Used			
459	4460899	1	Connector, Male - 6 Position (Deutz TD2.9L4 Engines Only)	
	4460464	5	Pin, Male	
	4460943	5	Pin, Male (Gold)	
	4460466	1	Seal, Plug	
460	4460931	1	Connector, Male - 8 Position (Deutz TD2.9L4 Engines Only)	
	4460464	4	Pin, Male	
	4460466	4	Seal, Plug	
	1001141934	Ref	GROUND CONTROL BOX WIRING DIAGRAM	
	1001141932	Ref	Caterpillar Engine Machines	A
	1001147006	Ref	Deutz D2011 Engine Machines	B
	1001141933	Ref	Deutz TD2.9L4 Engine Machines	B
			GM Engine Machines	A
501	2920129	AR	Bulb, Light	
502 to 506	Not Used			
507	2400065	1	Fuse, 30Amp	
508	2400066	1	Fuse, Holder	
509	4460708	2	Connector - 15 Position	
	4460226	4	Socket, Female	
	4922637	1	Harness, Jumper (Not Shown)	
	4460905	AR	Seal, Plug (USA Built Machines SN 0300160835 to SN 0300177675 & Romanian Built Machines SN B300001114 to SN E300001356)	
510 to 512	Not Used			
513	4460894	1	Connector - 6 Position	
	4460892	1	Connector, Bussbar - 6 Position	
	1001122202	Ref	STANDARD HARNESS COMPONENTS	
601	2902060	1	Battery Cable Kit Options:	
	1001146880		Deutz D2011 Engine Machines (USA Built Machines)	B
	1001102860		Deutz D2011 Engine Machines (Romanian Built Machines)	C
	2902510		Deutz TD2.9L4 Engine Machines	C
			Caterpillar Engine Machines	A
			GM Engine Machines	B

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
601A	7027040	1	Cable, Battery (Red) Options: Deutz D2011 Engine Machines (USA Built Machines) (Battery to Starter Relay)	
	7027050		Deutz D2011 Engine Machines (Romanian Built Machines) (Battery to Relays)	
	7027076		Deutz TD2.9L4 Engine Machines (Battery to Starter & Relays)	
	7027025		Caterpillar Engine Machines (Battery to Auxiliary Power Relay)	
	7016839		GM Engine Machines (Battery to Auxiliary Power Relay)	
601B		1	Cable, Battery (Battery – & Auxiliary Pump to Ground) (Black)	
	7027041		Deutz D2011 Engine Machines (was p/n 7016837)	
	7027058		Deutz TD2.9L4 Engine Machines	
	7027026		Caterpillar Engine Machines	
601C	7016840	1	GM Engine Machines	
	Use 7027040		Cable, Battery (Red)	
			Deutz D2011 Engine Machines (USA Built Machines) (Starter Relay to Starter) (Part of 601A)	
	7016820		Deutz D2011 Engine Machines (Romanian Built Machines) (Auxiliary Relay to Starter)	
601D	Use 7027076	1	Deutz TD2.9L4 Engine Machines (Starter Relay to Starter) (Part of 601A)	
	7027023		Caterpillar Engine Machines (Aux Power Relay to Starter)	
	7027014		GM Engine Machines (Auxiliary Power Relay to Starter)	
			Cable, Battery (Red) (Auxiliary Relay to Auxiliary Pump)	
602	7027014	1	Deutz D2011 Engine Machines (USA Built Machines)	
	7016834		Deutz D2011 Engine Machines (Romanian Built Machines)	
	7027057		Deutz TD2.9L4 Engine Machines	
	7027024		Caterpillar Engine Machines	
603	7016841	1	GM Engine Machines	
	1001141304		Harness, Glow Plugs (Deutz DT2.9L4 Engine Machines Only)	
	1001143907		Cable, Alternator Power (Deutz DT2.9L4 Engine Machines Only)	
			Caterpillar Engine Harness Components	
604	70003767	AR		
	70020808		Connector - 23 Position	
	4460871		Socket, Female	
			Connector - 6 Position	
604A	91503103	1	Terminal	
	77363228		Lock, Connector	
	91504107		Plug	
	4460466		Connector - 8 Position (Note: Not Available for Purchase)	
604B	See Note	1	Connector - 2 Position	
	7026408		Terminal	
	77363229		Lock, Connector	
	80604018		Deutz D2011 Engine Harness Components	
604C		AR	Deutz Engine Harness	
			Connector (Note: Not Available - Purchase Item 605A)	
			Plug-In, Connector	
			Connector	
605		1		
	7027796			
	See Note			
	7027793			
605A	70004060	1		

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
605D	70001872	1	Deutz Engine Harness (For other replacement parts refer to Deutz engine dealer)	
605E	70004103	1	Alternator Harness (Deutz Engine (Not Shown))	
605F	70004062	1	Starter with Resistor Harness (Deutz Engine (Not Shown))	
606	1001146268	1	Deutz TD2.9L4 Engine Harness	D
606A	1001133956	1	Connector (Includes Cover, Locks & Retention Plate)	
	1001126352	6	Terminal	
	1001126353	6	Seal, Terminal	
	1001126384	21	Terminal	
	1001126351	3	Terminal	
	1001126356	63	Plug, Seal	
	1001126357	2	Plug, Seal	
606B	1001133957	1	Connector (Includes Cover, Locks & Retention Plate)	
	1001126384	17	Terminal	
	1001126351	13	Terminal	
	1001126356	19	Plug, Seal	
	1001126357	11	Plug, Seal	
606C	4461070	3	Receptacle, Female With Resistor (3 Position)	
	4461095	6	Plug, Male - 3 Position	
	4460944	6	Socket, Female	
	4460466	2	Seal, Plug	
606D	80484084	1	Receptacle, Female - 8 Position	
	8229242	1	Fuse - 5A	
	80983191	1	Fuse - 10A	
	1001147264	1	Cap	
	1001116727	8	Plug	
	4460458	4	Seal	
606E	1001116952	1	Plug, Male - 2 Position	
	4460465	2	Socket, Female	
606F	1001138110	1	Plug, Male - 2 Position	
	1001138111	2	Socket, Female	
	1001138113	2	Seal	
606G	2902443	1	Kit, Receptacle	
	4461071	8	Terminal, Female (Gold)	
	4461072	1	Connector, Flange Mount	
	4461073	1	Connector, Dust Cap	
	4461074	1	Connector, Shell	
606H	4460894	1	Plug, Male - 6 Position	
	4460465	3	Socket, Female	
	4460944	2	Socket, Female	
	4460466	1	Seal, Plug	
606J	4460930	1	Plug, Male - 8 Position	
	4460465	1	Socket, Female	
	4460466	7	Seal, Plug	
606K	4460884	1	Plug, Male - 4 Position	
	4460465	2	Socket, Female	
	4460942	2	Socket, Female	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
606L	4460897	1	Receptacle, Female - 2 Position	
	4460941	2	Pin, Male	
	See Note	1	Resistor - 1.5K Ohm (Note: Not Available at Time of Printing)	
	4460891	1	Plug, Male - 2 Position	
	4460942	2	Socket, Female	
606M	1001133714	1	Plug, Male - 4 Position	
	1001133715	3	Terminal, Female	
	1001135650	3	Seal	
	4461008	1	Plug, Cavity (was p/n 1001135651)	
606N	1001142938	1	Plug, Male - 2 Position	
	1001142940	2	Terminal, Female	
	1001142941	2	Seal	
606P	1001126362	1	Receptacle, Female - 62 Position	
	1001126363	33	Terminal	
	1001126364	33	Seal	
	1001126391	23	Plug	
	4461008	4	Plug, Cavity	
	1001126365	2	Terminal	
	4461054	2	Seal	
607	1001138491	1	Fuel Harness (Deutz TD2.9L4 Engines Only)	
607A	4460897	1	Receptacle, Female - 2 Position	B
	4460941	2	Pin, Male	
	4460891	1	Plug, Male - 2 Position	
	4460942	2	Socket, Female	
607B	1001116983	1	Receptacle, Female - 2 Position	
	1001116710	2	Terminal	
	4461054	2	Seal	
607C	4460932	1	Receptacle, Female - 4 Position	
	4460941	2	Pin, Male	
	4460464	2	Pin, Male	
608	70002455	1	Caterpillar Speed Sensor Harness (Includes Speed Sensor)	
609	See Note	1	GM Engine Harness (Note: For other replacement parts refer to GM industrial engine dealer)	
	See Note	1	Connector - 10 Position (Note: Not Available for Purchase)	
610		2	Pump Harness Options:	
	See Note		2WD (Note: Not Available for Purchase)	
	7024830		4WD	
610A	7007498	1	Connector - Position (2WD)	
	4460867	2	Receptacle, Female - 2 Position (4WD)	
	4460850	4	Pin, Male (4WD)	
610B	7007497	1	Connector (2WD)	
	Not Required	0	4WD	
611		1	Limit Switch Harness Options (Does not include Limit Switch):	
	4922770		Without Arctic Package	B
	4923469		With Arctic Package	A
611A	4460226	2	Socket, Female	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
612	4922714 4923467 1060902 4923466	1 8.5ft/2.6m	Limit Switch Harness Options (Includes Limit Switch): Without Arctic Package With Arctic Package Cable, Electrical 18/2 Options: Without Arctic Package With Arctic Package	B A
612A	4460226	2	Socket, Female	
612B	4360548	1	Switch, Limit	
612C	4460968	1	Relief, Strain	
613 to 615	Not Used			
616	4923451 4922642	1	Harness, Glow Plugs Options: Machines without Arctic Package Machines with Arctic Package	
617	4360517	1	Drive Orientation Switch Harness (Includes Switch)	A
617A	4460320 4460227	1 2	Connector - 2 Position Pin, Male	
618	4460320 4460267	AR 1 2	Harness, Fuel Sender Components: Plug, Male - 2 Position Pin, Male	
OPTIONAL HARNESS COMPONENTS				
701	Ref 0258303 0258305 0258304 Ref Ref 0258304 0275681 0275678 0275679 0275683 0275684 0275680 0275682 Ref 1001101913 1001101910 1001101911 1001101915 1001101916	Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref	AC to Platform Receptacle Components 110V GFI Receptacle (ANSI, ANSI Export & CSA Specs) 220V GFI Receptacle (ANSI & CSA Specs) 110V/220V (Plug & Receptacle Supplied Locally) (ANSI Export & Australian) 110V/220V (CE Spec Only) Options: Without Generator: 110V/220V (Plug & Receptacle Supplied Locally) 110V with IEC Yellow Receptacle & Plug & Circuit Breaker 220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (2x4 Box) 220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (2x4 Box) 220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (70mm x 70mm Box) 220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (70mm x 70mm Box) 220V with AFSINT 107 Keyed Ground Receptacle & Plug & Circuit Breaker (2x4 Box) 220V with IEC Blue Receptacle & Plug & Circuit Breaker With Generator: 110V with IEC Yellow Receptacle & Plug & Circuit Breaker 220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (2x4 Box) 220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (2x4 Box) 220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (70mm x 70mm Box) 220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (70mm x 70mm Box)	B B B 3 B B B B B B B B B B B B B B B B

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
701 cont'd	1001101912	Ref	220V with AFSINT 107 Keyed Ground Receptacle & Plug & Circuit Breaker (2x4 Box)	B
701A	1001101914 0860038 See Note 0861781 0861731 See Note 0861781 1001141967	Ref 1	220V with IEC Blue Receptacle & Plug & Circuit Breaker Box Options: 0258303/0258305 Installations 0258304 Installation (Note: Not Available - Purchase Locally) 0275681/0275680/1001101913/1001101914 Installations 0275678/0275679/1001101910/1001101911/1001101912 Installations 0275683/0275684/1001101915/1001101916 Installations (Note: Was p/n 0861782 which is no longer available. use p/n 100110034 CEE 7 Side Ground Service Kit or p/n 1001100343 CEE 7 Post Ground Service Kit. Kit includes Box p/n 1001141967 & Items 701B, 701C, 701L & 701N.) 0275682 Installation 1001100343, 1001100344, 1001141970 & 1001141971 Kits	B
701B	4460346 4460125 See Note 4461198 4461244 4461245 Use 1001100343 Use 1001100344 4461246 4461201 1001141968 1001141969	1	Receptacle Options: 0258303 Installations 0258305 Installations 0258304 Installation (Note: Not Available - Purchase Locally) 0275681/1001101913 Installations 0275678/1001101910 Installations 0275679/1001101911 Installations 0275683/1001101915 Installations (was p/n 4461204 & 1001141971) 0275684/1001101916 Installations (was p/n 4461207 & 1001141970) 0275680/1001101912 Installations 0275682/1001101914 Installations 1001100343 & 1001141971 Kits 1001100344 & 1001141970 Kits	
701C	4460205 4460233 See Note 4461196 4461202 4461205 4461249 4461199	1	Plug Options: 0258303 Installations 0258305 Installations 0258304 Installation (Note: Not Available - Purchase Locally) 0275681/1001101913 Installations 0275678/0275683/1001101910/1001101915 Installations & 1001100343 & 1001141971 Kits 0275679/0275684/1001101911/1001101916 Installations & 1001100344 & 1001141970 Kits 0275680/1001101912 Installation 0275682/1001101914 Installation	
701D	0903484	1	Bracket (All Installations except 0258303/0258304/0258305 Installations)	
701E	0903612	1	Bracket (All Installations except 0258303/0258304/0258305 Installations)	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
701F	1705325 3252507	1	Decal Options: 110V 220V	
701G	2902549 1001096070	1	Circuit Breaker Box Kit Options (All Installations except 0258303/0258304/0258305 Installations): Without Generator With Generator	D
	1001109475 1001109482 0861880 4460956 4460957	AR	Breaker, Circuit - 16 AmpOptions: Without Latch & Bracket With Latch & Bracket	D
701H	4460633 1001097150	2	Box, Breaker Barrier, Terminal Block End Block, Terminal	
701J	1060908	AR	Connector, Strain Relief Options: M20 Diameter M25 Diameter	
701K	4460968 See Note 4460071	6ft/1.8m 12ft/3.7m 1	Cable, Electrical 12/3 Options (All Installations except 0258303/0258304/0258305 Installations): Without Generator With Generator	
701L	Part of Item 701A	1	Connector, Strain Relief All Installations except 0258303/0258304/0258305 Installation 0258304 Installation (Note: Not Available - Purchase Locally) 0258303/0258305 Installations	
701M	4060700 1001110873 Not Available 4060092 3960422	1	Shield, Cover All Installations except 0258303/0258304/0258305 Installation 0258303 Installation Options Side Hinged Top Hinged 0258304 Installation (Purchase Locally) 0258305 Installation Gasket, Cover (0258303/0258305 Installations)	
701N	4460709 4460205 1671093	1	Plug, Male Options: All Installations Except 0258303 Installation 0258303 Installation Cover, Plug (0258304 Installation Only)	
	4460710 4460134 4460701 4461197 4461200 4461203 4461206 4461250 1671092	1	Connector, Female Options: All Installations Except 0258303/0258305 Installation 0258303 Installation 0258305 Installation 1001101913 Installation 1001101914 Installation 1001101910/1001101915 Installations & 1001100343/ 1001141971 Kits 1001101911/1001101916 Installations & 1001100344/ 1001141970 Kits 1001101912 Installation Cover, Connector (0258304 Installation Only)	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
			KIT, PLUG & SOCKET OPTIONS: Without Generator: 0258303 & 0258305 Installation (Note: Purchase Individual Components) 0258304 Installation (Note: Not Available - Purchase Locally) 110V with IEC Yellow (Includes Items 701A, 701B, 701C & 701L) (0275681 Installation) 220V with CEE 7 Post Ground (2 x 4 Box) (Includes Items 701A, 701B, 701C & 701L) (0275678 Installation) 220V with CEE 7 Side Ground (2 x 4 Box) (Includes Items 701A, 701B, 701C & 701L) (0275679 Installation) 220V with CEE 7 Post Ground (70mm x 70mm Box) (Includes Items 701A-701C, 701L & 701N) (0275683 Installation) (was p/n 0275218) 220V with CEE 7 Side Ground (70mm x 70mm Box) (Includes Items 701A-701C, 701L & 701N) (0275684 Installation) (was p/n 0275219) 220V with AFSINT 107 Keyed Ground (Includes Items 701A, 701B, 701C & 701L) (0275680 Installation) 220V with IEC Blue (Includes Items 701A, 701B, 701C & 701L) (0275682 Installation) With Generator: 110V with IEC Yellow (Includes Items 701A - 701C, 701L & 701N) (1001101913 Installation) 220V with CEE 7 Post Ground (2 x 4 Box) (Includes Items 701A - 701C, 701L & 701N)(1001101910 Installation) 220V with CEE 7 Side Ground (2 x 4 Box) (Includes Items 701A - 701C, 701L & 701N) (1001101911 Installation) 220V with AFSINT 107 Keyed Ground (Includes Items 701A - 701C, 701L & 701N) (1001101912 Installation) 220V with IEC Blue (Includes Items 701A - 701C, 701L & 701N) (1001101914 Installation) 220V with CEE 7 Post Ground (70mm x 70mm Box) (Includes Items 701A - 701C, 701L & 701N) (1001101915 Installation) (was p/n 1001101971 Kit) 220V with CEE 7 Side Ground (70mm x 70mm Box) (Includes Items 701A - 701C, 701L & 701N) (1001101916 Installation) (was p/n 1001101970 Kit)	
702	4921829	1	2500W Generator to Rear of Boom Harness (110V) (ANSI & CSA Specs)	2
			Note: Harness used to connect AC at platform harness to generator receptacle to power platform receptacle.	
702A	1060494 4460205	6ft/1.83m 1	110V Cable, Electrical - 12/3 (ANSI & CSA Specs) Plug, Male (110V)	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
702B		1	Receptacle, Female Options: 110V (ANSI & CSA Specs) 220V (ANSI & CSA Specs) See Note 110V/220V (Machines with Locally Supplied Plug & Receptacle) (ANSI Export, Australian & CE Specs) (Note: Not Available - Purchase Locally) 110V with IEC Yellow Receptacle & Plug & Circuit Breaker (CE Specs Option) 220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (2x4 Box) (CE Specs Option) 220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (2x4 Box) (CE Specs Option) 220V with CEE 7 Post Ground Receptacle & Plug & Circuit Breaker (70mm x 70mm Box) (CE Specs Option) 220V with CEE 7 Side Ground Receptacle & Plug & Circuit Breaker (70mm x 70mm Box) (CE Specs Option) 220V with AFSINT 107 Keyed Ground Receptacle & Plug & Circuit Breaker (2x4 Box) (CE Specs Option) 220V with IEC Blue Receptacle & Plug & Circuit Breaker (CE Specs Option)	
703		AR	2500W Generator Electrical Components Caterpillar/Deutz D2011 Engine Machines 110V/60Hz 110V/50Hz & 220V/50Hz	A B B
703A	4933350	1	GM Engine Machines Harness - On/Off Switch	1/A
703B	4922641	1	Socket, Female	
703B	4460226	2	Powermite Control Box to Relay Caterpillar/Deutz D2011 Engine Machines	
703B	4923445	1	GM Engines	
703C	1001112589	1	Harness, Generator Power	
703C	7020193	Ref	Note: Items 703D & 703E used on Following Applications: Caterpillar Engine Machines - All GM Engine Machines - All Deutz D2011 Engine Machines - All with 110V/60Hz	
703D	4460321	1	Connector, Male - 4 Position	
703E	4460906	4	Socket, Female	
703E	4460961	1	Connector, Female - 4 Position	
703E	4460705	4	Pin, Male	
704	1001111404	AR	7500W Generator Electrical Components Caterpillar Engines Machines 60Hz	A
704	1001115395		Deutz D2011 Engines Machines 60Hz	A
704	1001115396		Deutz D2011 Engines Machines 50Hz	A
704	1001146637		Deutz TD2.9L4 Engines Machines 60Hz	E
704A		1	Receptacle, Female Twist-Lock Options (Machines with Caterpillar, Deutz D2011 & GM Engines Only): 60Hz Spec 50Hz Spec (Note: Not Available - Purchase Locally.)	
704B	4460958		Gasket Options:	
704B	See Note		60Hz Spec	
704B	3960422	A/R		

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
704C	See Note 1001110873	1	50Hz Spec (Note: Not Available - Purchase Locally.) Cover, Receptacle Options: 60Hz Spec	
704D	See Note 1001110872	1	50Hz Spec (Note: Not Available - Purchase Locally.) Cover, Receptacle Options (Machines with Caterpillar, Deutz D2011 & GM Engines Only): 60Hz Spec	
704E	See Note 4460346	1	50Hz Spec (Note: Not Available - Purchase Locally.) Receptacle Options: 60Hz Spec	
704F	See Note 4460051	1	50Hz Spec (Note: Not Available - Purchase Locally.) Connector, Strain Relief (Machines with Caterpillar, Deutz D2011 & GM Engines Only)	
704G	4460071	1	Connector, Strain Relief	
704H	4922925	1	Harness, Generator	
704J	See Note	1	Plug, Male - 6 Position (Note: Not Available for Purchase.)	
704K	See Note 4460225	6	Socket, Female (Note: Not Available for Purchase.) Plug, Male - 6 Position	
704K	4460226	6	Socket, Female	
705	0861542	Ref	7500W SkyPower Generator Junction Box Components	
	1001157592	Ref	60Hz Spec (All Machines except Deutz TD2.9L4 Engines)	C
	0861567	Ref	60Hz Spec (Deutz TD2.9L4 Engine Machines)	A
			50Hz Specs	B
705A	1060494	2ft/.6m	Cable, Electrical 12/3	
	See Note		60Hz Spec	
			50Hz Spec (Note: Not Available - Purchase Locally)	
705B	1060708	2.5ft/.76m	Cable, Electrical 10/3	
	See Note		60Hz Spec	
			50Hz Spec (Note: Not Available - Purchase Locally)	
705C	1060343	1.5ft/.46m	Cable, Electrical 10/4 (60Hz Spec Only)	
705D	4460425	2	Connector, Strain Relief	
	3520192	1	Plug, Hole (Machines with Deutz TD2.9L4 Engines Only)	
705E		AR	Component Options:	
	4460426	2	Connector, Strain Relief (60Hz Spec Only)	
	4460426	1	Connector, Strain Relief (50Hz Spec Only)	
	3520189	1	Plug (50Hz Spec Only)	
705F	1671092	1	Cover (60Hz Spec Only)	
	4460963	1	Connector (60Hz Spec Only)	
706		Ref	7500W Generator Electrical Diagram Components	
	1001112586	Ref	Caterpillar/Deutz D2011 Engine Machines	A
	1001157770	Ref	Deutz TD2.9L4 Engine Machines	A
	4933349	Ref	GM Engine Machines	1/A
706A		1	Generator Harness Options:	
	1001112587		Deutz D2011 Engines	A
	1001119968		Deutz TD2.9L4 Engines	B
	4460465	3	Socket, Female (Deutz TD2.9L4 only)	
706B	4460374	2	Plug, Sealed Relay (Deutz D2011 Engines Only)	
	4460375	7	Terminal (Deutz D2011 Engines Only)	
706C	4460742	1	Plug, Male - 2 Position	
	4460743	2	Socket, Female	

SECTION 7 ELECTRICAL

FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
706D	4460458	2	Seal	
		A/R	Component Options: Fuseholder (Deutz D2011 Engines)	
	2400060	1	Fuse - 5 Amp (Deutz D2011 Engines)	
	2400064	1	Fuseholder (Includes Fuse & Cap) (Deutz D2011 Engines)	
	1001117078	1		
	See Note	1	Fuse - 5 Amp (Deutz D2011 Engines) (Note: Use 1001117078 Assembly or Purchase Fuse Locally)	
706E	1001096134	1	Cover, Fuseholder (Deutz D2011 Engines)	
706E	4460967	1	Plug, Male - 3 Position	
	4460465	3	Socket, Female	
706F	4922641	1	Switch Harness	1/A
706G	4460226	2	Socket, Female	
707	0255917	1	Strobe Light Harness (Includes Strobe Light)	
707A	4460320	1	Connector, Female - 2 Position	
	4460267	2	Pin, Male	
708	0257887	1	Alarm Harness (Includes Alarm)	
708A	4460424	1	Connector - 2 Position	
	4460268	2	Socket, Female	
709	See Note	1	Lights Harness (Note: Not Available for Purchase)	
	1060341	37ft/11.3m	Cable, Electrical - 16/2	
709A	3740049	1	Relay	
	4922643	1	Harness, Bag (Located at Ground Control Box) (Not Shown);	
710	See Note	1	Soft-Touch System Harness (Note: Not Available for Purchase)	
710A	1060341	AR	Cable, Electrical - 16/2 Options: 2.5ft/.7m x 6ft/8m Platform 3ft/.9m x 6ft/8m Platform	
		15ft/4.6m		
710B	4460871	2	Socket, Female	
711 to 712	Not Used			
713		AR	Platform Worklights Components	
713A	2920140	2	Platform Worklights External Harness (Includes Light & Wire Only)	
713B	4460459	1	Connector - 3 Position	
	4460790	3	Socket, Female	
	4460789	3	Seal	
713C	4460476	1	Receptacle, Female	
	4460850	3	Pin, Male	
	4460790	3	Socket, Female	
713D	4460426	1	Connector, Strain Relief	
713E	2400070	1	Fuse	
	2400066	1	Holder, Fuse	
713F	1060988	1	Worklights Harness (Upper Boom to Worklights)	
713G	1060987	1	Worklights Harness (Tower Boom to Aux. Power Solenoid)	
		Ref	TOOLS (NOT SHOWN)	
801	7002821	1	Crimper (For Wire to Pin/Socket Connections)	
802	7002823	1	Extractor (For Removal of Pin/Socket from Connectors)	
803	4460467	1	Extractor, Pin (Blue 16-18 Gauge) (For Removal of Pin/Socket from Connectors)	

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FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (CONTINUED)

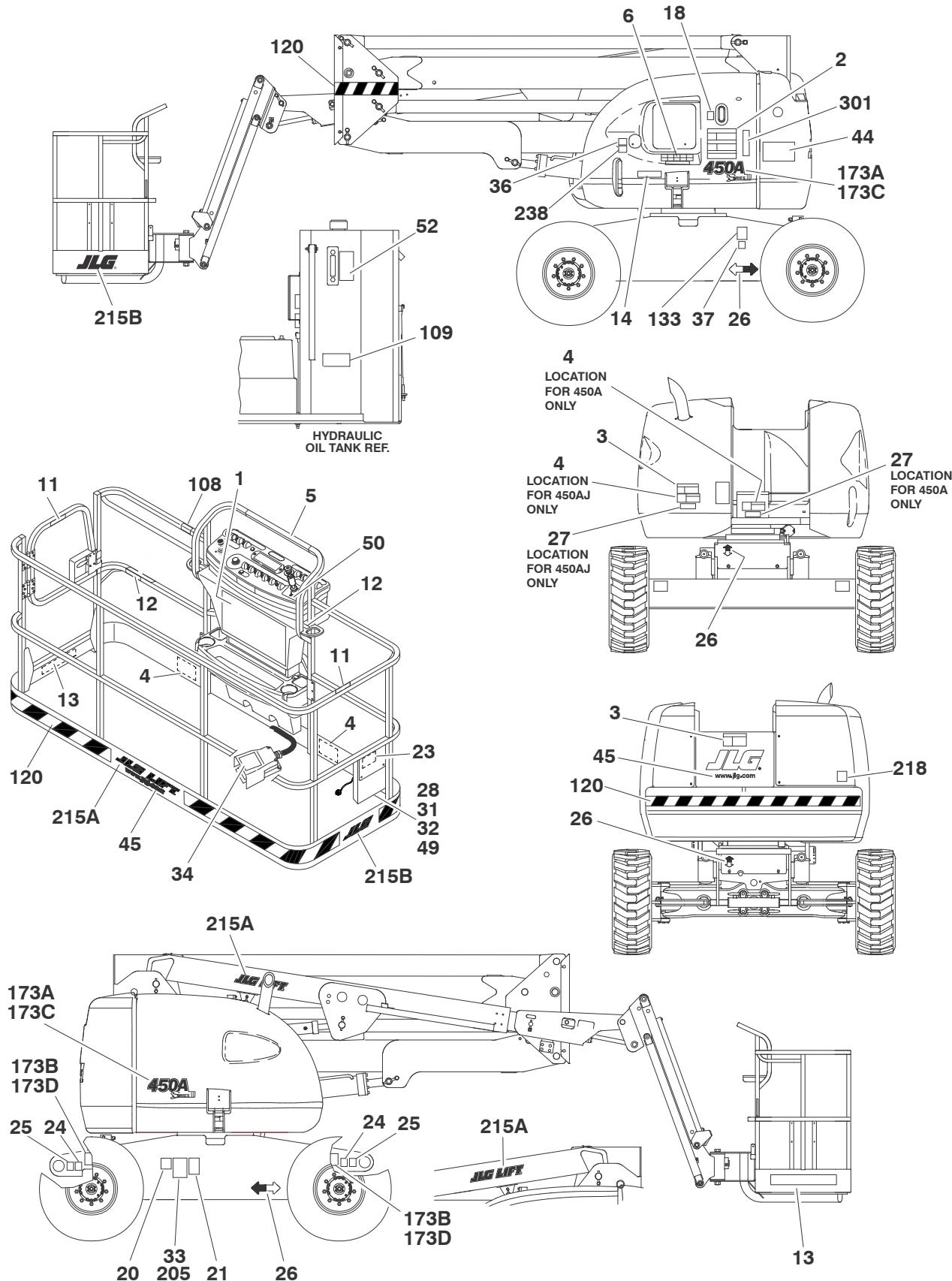
ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
804	4460510	1	Extractor, Pin (Yellow 12-14 Gauge) (For Removal of Pin/Socket from Connectors)	
805	7002828	1	Stripper, Wire	
806	2901443	1	Analyzer Kit	
806A	1600244	1	Analyzer	
806B	1060633	1	Cable, Analyzer	1/A
806C	4460321	2	Plug, Male	
	4460226	8	Socket, Female	
807	1001137005	1	Cable Kit, Software (Not Shown)	

SECTION 8

DECALS

SECTION 8 DECALS

FIGURE 8-1. DECAL INSTALLATION - ANSI SPEC



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FIGURE 8-1. DECAL INSTALLATION - ANSI SPEC

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001143099	Ref	STANDARD DECAL INSTALLATION	D
1	1703797	1	Decal - Danger/Warning	
2	1703798	1	Decal - Danger/Warning	
3	1703805	2	Decal - Danger/Electrocution	
4	1703804	3	Decal - Warning/Crushing	
5	1001108493	1	Decal - Legend	
6	1706941	1	Decal - Legend	
7 to 10	Not Used			
11	1702868	2	Decal - No Hands	
12	1704277	3	Decal - Attach Lanyard Here	
13	1001121801	1	Decal - Max Capacity	
14	1001121814	1	Decal - Max Capacity	
15 to 17	Not Used			
18	1701504	1	Decal - Hydraulic Oil	
19	Not Used			
20	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
21		1	Decal - Patent Options: SN 0300160835 to SN 0300163015 SN 0300163015 to Present	
22	Not Used			
23	1701509	1	Decal - Manual	
24	1702300	4	Decal - Tie Down /Lift	
25	1701500	4	Decal - Tie Down /Lift	
26	1701529	4	Decal - Arrow	
27	3251243	1	Nameplate 120V-60Hz	
28	0860520	1	Box, Manual Storage	
29 to 30	Not Used			
31	4751400	4	Flatwasher 1/4in Regular	
32	3311405	4	Locknut 1/4in-20NC	
33	3820001	2	Rivet	
34	3252347	1	Decal - Footswitch	
35	Not Used			
36		1	Decal - Fuel Gas Engine Machines Diesel Engine Machines	
	1701542			
	1701505			
37		AR	Decal - LPG Gas (Dual Fuel Machines Only) Gas Engine Machines Diesel Engine Machines	
	1701243	1		
	Not Required	0		
38 to 43	Not Used			
44	1001143110	1	Decal - Lift Diagram	
45	1704885	AR	Decal - Website	
46 to 48	Not Used			
49	0641406	4	Bolt, 1/4in-20NC x 3/4in	
50	1705351	1	Decal, Drive/Steer	
51	Not Used			
52	1001143112	1	Decal - Hydraulic Fill (USA Built Machines SN 0300160835 to SN 0300172163 & Romanian Built Machines SN E300001114 to SN E300001163)	

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

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
	1001142990	Ref	DECAL OPTIONS	
101 to 107	Not Used			
108	1702962		Decal - Warning Prop Options:	
	1702961		Diesel Machines	
	1704412	1	Gas Machines	
109	Not Used		Decal - Hydraulic Fluid	
110 to 119				
120	0272165	Ref	Warning Stripe Decal Installation	
	4420051	21.7ft/6.61m	Decal - Warning Stripes	
121 to 132	Not Used			
133	1700818	1	Decal - LP (Gas Engine Machines Only)	
134 to 172	Not Used			
173	1001143108	Ref	Model Designation Decal Installation Options	
	1704951	Ref	450A Series II	A
173A	1704752	2	Decal - 450A	
173B	1001143109	4	Decal - Max Tire Load	
	1704957	Ref	450AJ Series II	A
173C	1704752	2	Decal - 450AJ	
173D		4	Decal - Max Tire Load	
174 to 204	Not Used			
205	See Note	1	Nameplate - Serial Number (Note: Not Available for Purchase)	
206 to 214	Not Used			
215	0272530	Ref	JLG Logo Decals	1
215A	1702774	3	Decal - JLG Lift (3 1/2in)	
215B	1702773	1	Decal - JLG (5in)	
216 to 217	Not Used			
218	3251813	1	Decal - USA	
219 to 237	Not Used			
238	1001108923	1	Decal - Low Sulfur Fuel (Diesel Machines Only)	
	0272341	Ref	TIRE SEALANT DECAL INSTALLATIONS	1
301	1705363	1	Decal - Tire Sealant	

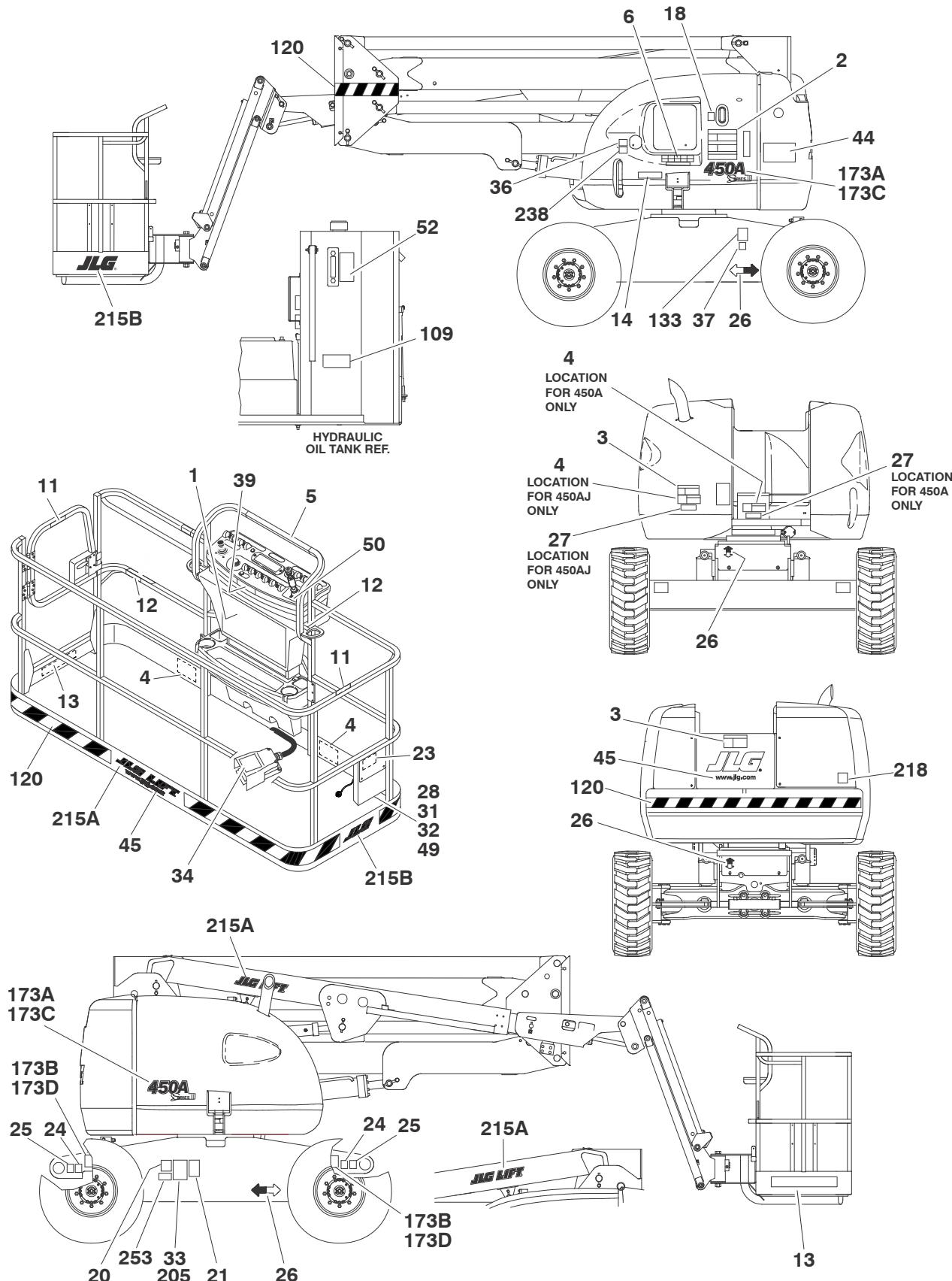
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FIGURE 8-1. DECAL INSTALLATION - ANSI SPEC (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

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FIGURE 8-2. DECAL INSTALLATION - ANSI EXPORT SPECS



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FIGURE 8-2. DECAL INSTALLATION - ANSI EXPORT SPECS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	DECAL INSTALLATIONS	
	1001143105	Ref	450A/AJ Series II Brazil Spec (Spanish/Portuguese)	D
	1001143104	Ref	450A/AJ Series II Chinese Spec (English/Chinese)	D
	1001143103	Ref	450A/AJ Series II CSA Spec (English/French)	D
	1001143101	Ref	450A/AJ Series II Japanese Spec	D
	1001143102	Ref	450A/AJ Series II Korean Spec	D
	1001143107	Ref	450A/AJ Series II Latin America Spec (English/Spanish)	D
1		1	Decal - Danger/Warning Options: Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
2	1703928 1703925 1703924 1703926 1703927 1703923	1	Decal - Danger/Warning Options: Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
3	1703934 1703931 1703930 1703932 1703933 1703929	2	Decal - Danger Electrocution Options: Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
4	1703940 1703937 1703936 1703938 1703939 1703935	3	Decal - Warning/Crushing Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
5	1703952 1703949 1703948 1703950 1703951 1703947	1	Decal - Legend Options: Brazil/Chinese/Japanese/Korean Spec CSA/Latin America Spec	
6	Not Required 1001108493	AR	Decal - Legend Options: Brazil/Chinese/Japanese/Korean Spec CSA/Latin America Spec	
7 to 10	Not Required 1706941			
11	Not Used 1704002 Not Required 1704000 1704001	2	Decal - No Hands Options: Brazil Spec Chinese/Japanese/Korean Spec CSA Spec Latin American Spec	
12	1704277	3	Decal - Attach Lanyard	

SECTION 8 DECALS

FIGURE 8-2. DECAL INSTALLATION - ANSI EXPORT SPECS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
13	1001121920 1001121810 1001121803 1001121808 1001121918 1001121805	2	Decal - Max Capacity Options: Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
14	1001121923 1001121823 1001121816 1001121821 1001121921 1001121818	1	Decal - Max Capacity Options: Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
15 to 17	Not Used			
18	1701504	AR	Decal - Hydraulic Oil	
19	1704008 1704006 1704007	1	Decal - Inspection Options (Not Shown): Brazil Spec CSA Spec Latin American Spec Chinese/Japanese/Korean Spec	
20	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
21	1700584	1	Decal - Patent (SN 0300160835 to SN 0300163015 Only)	
22	Not Used			
23	1701509	1	Decal - Manual	
24	1702300	4	Decal - Tie Down /Lift	
25	1701500	4	Decal - Tie Down /Lift	
26	1701529	4	Decal - Arrow	
27	Not Required	AR	Decal Options: 3251243 120V-60Hz - Brazil/CSA/Latin American Spec Chinese/Japanese/Korean Spec	
28	0860520	1	Box, Manual Storage	
29 to 30	Not Used			
31	4751400	4	Flatwasher 1/4in Regular	
32	3311405	4	Locknut 1/4in-20NC	
33	3820001	4	Rivet	
34	Not Required	1	Decal - Footswitch Options: 1703985 1703982 1703984 1703980 1703981 1703983 Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
35	Not Used			
36	1701542 1701505	1	Decal - Fuel Options: Gas Engine Machines Diesel Engine Machines	
37	1701543	1	Decal - LPG (Gas Machines Only)	
38	Not Used			

SECTION 8 DECALS

FIGURE 8-2. DECAL INSTALLATION - ANSI EXPORT SPECS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
39	1705514 Not Required	AR 1 0	Decal - CSA Options: CSA Spec Brazil/Chinese/Japanese/Korean/Latin American Spec	
40 to 43	Not Used			
44	1001143110	1	Decal - Lift Diagram	
45	1704885	AR	Decal - Website	
46 to 48				
49	0641406	4	Bolt 1/4in-20NC x 3/4in9	
50	1705905 1705430 1705429 1705426 1705427 1705910	1	Decal, Drive/Steer Options Brazil Spec Chinese Spec CSA Spec Japanese Spec Korean Spec Latin American Spec	
51	Not Used			
52	1001143112	1	Decal - Hydraulic Fill (USA Built Machines SN 0300160835 to SN 0300172163 & Romanian Built Machines SN E300001114 to SN E300001163)	
	1001142990	Ref	DECAL OPTIONS	
101 to 108	Not Used			
109	1704412	1	Decal - Hydraulic Fluid	
110 to 119	Not Used			
120	0272165 4420051	Ref 21.7ft/6.61m	Warning Stripe Decal Installation Decal - Warning Stripes	
121 to 132	Not Used			
133	1704271 1702720	1	Decal - LP Options (Gas Engine Machines Only): CSA Spec Latin American Spec	
134 to 172	Not Used			
173	1001143108	Ref	Model Designation Decal Installation Options	A
173A	1704951	2	450A Series II Decal - 450A	
173B	1704752	4	Decal - Max Tire Load	
	1001143109	Ref	450AJ Series II	A
173C	1704957	2	Decal - 450AJ	
173D	1704752	4	Decal - Max Tire Load	
174 to 204	Not Used			
205	See Note	1	Nameplate - Serial Number (Note: Not Available for Purchase)	
206 to 214	Not Used			
215	0272530	Ref	JLG Logo Decals	1
215A	1702774	3	Decal - JLG Lift (3 1/2in)	
215B	1702773	1	Decal - JLG (5in)	
216 to 217	Not Used			
218	3251813	1	Decal - USA (ANSI Export & CSA Specs Only)	
219 to 237	Not Used			
238	1001108923	1	Decal - Low Sulfur Fuel (CSA Diesel Machines Only)	
239 to 252	Not Used			

SECTION 8 DECALS

FIGURE 8-2. DECAL INSTALLATION - ANSI EXPORT SPECS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
253	1001143852	1	Decal - Emissions Compliance (Diesel Machines Only) (USA Built Machines SN 0300166654 to Present & Romanian Built Machines SN E300001551 to Present)	

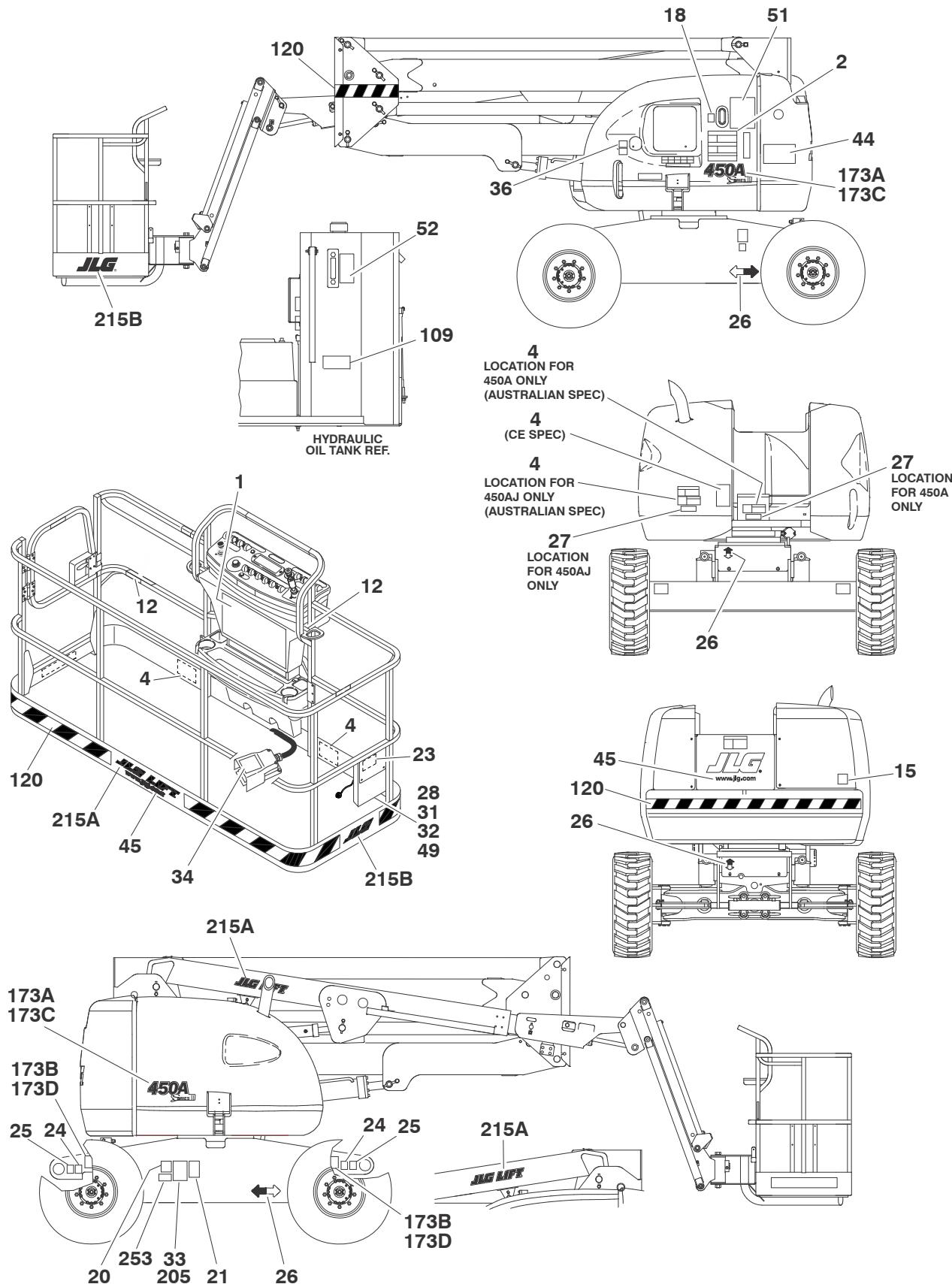
SECTION 8 DECALS

FIGURE 8-2. DECAL INSTALLATION - ANSI EXPORT SPECS (CONTINUED)

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.

SECTION 8 DECALS

FIGURE 8-3. DECALS INSTALLATION - AUSTRALIAN & CE SPECS



SECTION 8 DECALS

FIGURE 8-3. DECALS INSTALLATION - AUSTRALIAN & CE SPECS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	DECAL INSTALLATIONS	
	1001143100	Ref	Australian Spec	D
	1001143106	Ref	CE Spec	D
1	1703992	1	Decal - Danger/Warning Options: Australian Spec	
	1705821		CE Spec	
2	1705332	1	Decal - Danger/Warning Options: Australian Spec	
	1705822		CE Spec	
3	Not Used			
4	1701518	3	Decal - Warning/Crushing	
5 to 11	Not Used			
12	1704277	3	Decal - Attach Lanyard	
13 to 14	Not Used			
15	Not Required	AR	Decal - Sound Power Level Options: Australian Spec	
	1705084	0	CE Spec	
16 to 17	Not Used			
18	1701504	AR	Decal - Hydraulic Oil	
19	Not Used			
20	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
21	1700584	1	Decal - Patent (SN 0300160835 to SN 0300163015 Only)	
22	Not Used			
23	1701509	1	Decal - Manual	
24	1702300	4	Decal - Tie Down /Lift	
25	1701500	4	Decal - Tie Down /Lift	
26	1701529	4	Decal - Arrow	
27	Not Required	AR	Decal Options: 240V-50Hz - Australian Spec	
	3251242	1	CE Spec	
	Not Required	0		
28	0860520	1	Box, Manual Storage	
29 to 30	Not Used			
31	4751400	4	Flatwasher 1/4in Regular	
32	3311405	4	Locknut 1/4in-20NC	
33	3820001	AR	Fastener Options: Australian Spec	
	2080057	4	CE Spec	
34	3252347	2	Decal - Footswitch Options: Australian Spec Options;	
	1705828	1	USA Built Machines SN 0300160835 to SN 0300172163 & Romanian Built Machines SN E300001114 to SN E300001163	
	1705828		USA Built Machines SN 0300172163 to Present & Romanian Built Machines SN E300001163 to Present	
	1705828		CE Spec	
35	Not Used			
36	1701505	1	Decal - Fuel	
37 to 43	Not Used			

SECTION 8 DECALS

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

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
44	1001143110	1	Decal - Lift Diagram	
45	1704885	AR	Decal - Website	
46 to 48	Not Used			
49	0641406	4	Bolt, 1/4in-20NC x 3/4in	
50	Not Used			
51		AR	Decal - Emergency Controls Options: Australian Spec CE Spec	
	1001112551	1		
	Not Required	0		
52	1001143112	1	Decal - Hydraulic Fill (USA Built Machines SN 0300160835 to SN 0300172163 & Romanian Built Machines SN E300001114 to SN E300001163)	
	1001142990	Ref	DECAL OPTIONS	
101 to 108	Not Used			
109	1704412	1	Decal - Hydraulic Fluid	
110 to 119	Not Used			
120	0272165	Ref	Warning Stripe Decal Installation	
	4420051	21.7ft/6.61m	Decal - Warning Stripes	
121 to 172	Not Used			
173	1001143108	Ref	Model Designation Decal Installation Options	
		Ref	450A Series II	A
173A	1704951	2	Decal - 450A	
173B	1704752	4	Decal - Max Tire Load	
	1001143109	Ref	450AJ Series II	A
173C	1704957	2	Decal - 450AJ	
173D	1704752	4	Decal - Max Tire Load	
174 to 204	Not Used			
205	See Note	1	Nameplate - Serial Number (Note: Not Available for Purchase)	
206 to 214	Not Used			
215	0272530	Ref	JLG Logo Decals	1
215A	1702774	3	Decal - JLG Lift (3 1/2in)	
215B	1702773	1	Decal - JLG (5in)	
216 to 252	Not Used			
253	1001143852	1	Decal - Emissions Compliance (Diesel Machines Only) (USA Built Machines SN 0300166654 to Present & Romanian Built Machines SN E300001551 to Present)	

SECTION 9 RECOMMENDED SERVICE PARTS STOCK

MODEL 450A / 450AJ Series II

The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.

Part Number	Description	Qty./Machine
STANDARD PARTS		
2120210	Element, Filter (Figure 2-1)	1
70002386	Coil (Figures 2-2, 2-6, 2-7, 2-8, 2-10 & 3-6)	1
70003788	Coil (Figure 2-2)	1
70003789	Coil (Figure 2-2)	1
4360517	Switch, Proximity (Figures 2-3 & 7-2)	1
70002386	Coil (Figures 2-6, 2-7, 2-8, 2-9, 2-10 & 2-11)	1
3740067	Relay (Figures 2-6, 2-7, 2-8, 2-9, 2-10 & 2-11)	1
7024444	Breather, Hydraulic Tank (Figure 2-15)	1
70001960	Element, Return Filter (Figure 2-15)	1
3740049	Relay (Figure 2-17)	1
4360328	Switch, Toggle (Figures 2-17 & 4-4)	1
2860030	Key, Replacement (Figure 2-17)	1
4360475	Switch, Mushroom (Figures 2-17 & 4-4)	1
4360476	Contact, Switch Block (Figures 2-17 & 4-4)	1
4360387	Switch, Push Button (Figures 4-3 & 4-4)	1
1001118416	Controller (Drive and Steer) (Figure 4-4)	1
1001129555	Controller (Lift and Swing) (Figure 4-4)	1
4360407	Control, Speed (Figure 4-4)	1
4360330	Switch, Toggle (Figure 4-4)	1
4360331	Switch, Toggle (Figure 4-4)	1
3990010	Diode 6 Amp (Figure 7-2)	2
8229242	Fuse (Figure 7-2)	2
2920129	Bulb, Light (Figure 7-2)	2
2400065	Fuse (Figure 7-2)	2
VARIABLE PARTS		
7012664	Element, Air Cleaner (Caterpillar Engine Machines) (Figures 2-6 & 2-7)	1
70002377	Filter, Fuel/Oil Separator, (Caterpillar Engine Machines) (Figures 2-6 & 2-7)	1
70001403	Filter, Oil Element, (Caterpillar Engine Machines) (Figures 2-6 & 2-7)	1
70003791	Filter, Fuel (Caterpillar Engine Machines) (Figures 2-6 & 2-7)	1
70003770	Module, ECM Engine Control (Caterpillar Engine Machines) (Figures 2-6 & 2-7)	1
70003783	Element, Air Cleaner (Deutz D2011 Engine Machines) (Figures 2-8 & 2-9)	1
7016331	Filter, Oil Element, (Deutz D2011 Engine Machines) (Figures 2-8 & 2-9)	1
7020023	Filter, Fuel (Standard) (Deutz D2011 Engine Machines) (Figures 2-8 & 2-9)	1
70003463	Filter, Fuel (RME Resistant for Euro Bio-Diesel) (Deutz D2011 Engine Machines) (Figures 2-8 & 2-9)	1
7027795	Module, Control (Deutz D2011 Engine Machines) (Figures 2-8 & 2-9)	1
70003937	Element, Air Cleaner (Deutz TD2.9L4 Engine Machines) (Figures 2-10)	1
7016331	Filter, Oil Element, (Deutz TD2.9L4 Engine Machines) (Figures 2-10)	1
70025153	Filter, Fuel (Deutz TD2.9L4 Engine Machines) (Figures 2-10)	1
70025161	Filter, Fuel (Deutz TD2.9L4 Engine Machines) (Figures 2-10)	1

SECTION 9 RECOMMENDED SERVICE PARTS STOCK

MODEL 450A / 450AJ Series II

The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.

Part Number	Description	Qty./Machine
70025210	Module, Control (Deutz TD2.9L4 Engine Machines) (Figure 2-10)	1
1001138228	Module, Power Relay (Deutz TD2.9L4 Engine Machines) (Figure 2-10)	1
7012664	Element, Air Cleaner (GM Engine Machines) (Figure 2-11)	1
7027965	Filter, Oil (GM Engine Machines) (Figures 2-11)	1
7027972	Filter, Fuel (GM Engine Machines) (Figure 2-11)	1
70003907	Module, ECU Engine Control (GM Engine Machines) (Figure 2-11)	1
1001103667	Module, Ground Control (Figure 2-17)	1
4360469	Switch, Key (All Specs Except CE Spec) (Figure 2-17)	1
4360470	Switch, Key (CE Specs) (Figure 2-17)	1
4360548	Switch, Limit (Figure 3-1 & 7-2)	1
2940074	Latch (Machines with Gate) (Figure 4-1)	1
4360057	Switch, Limit (Soft-Touch Option) (Figure 4-3)	1
2920029	Bulb, Light (Soft-Touch Option) (Figures 4-3 & 4-4)	2
1001106938	Module, Platform Control (Figure 4-4)	1
4360336	Switch, Toggle (Dual Fuel) (GM Engine Machines) (Figure 4-4)	1
4360057	Switch, Limit (Figure 7-2)	1
8229242	Fuse - 5AMP (Deutz TD2.9L4 Engine Machines) (Figure 7-2)	2
80983191	Fuse - 10AMP (Deutz TD2.9L4 Engine Machines) (Figure 7-2)	2

SECTION 10 SPECIAL OPTIONS

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

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	MISCELLANEOUS SPECIAL OPTIONS	
	1340061	Ref	Air Cleaner with Dust Evacuator Valve	
		Ref	Air Line at Platform Installations	
		Ref	USA Built Machines	
	0271527	Ref	450A/450AJ Machines without Arctic Package (All Specs)	
	1001107936	Ref	450AJ Machines without Arctic Package (ANSI Specs - Dual Air Lines))	
	0275789	Ref	450A/450AJ Machines with Arctic Package (ANSI & ANSI Export Specs)	
		Ref	Romanian Built Machines	
	0275402	Ref	Without SkyPower (CE Spec Only)	
	0275910	Ref	With SkyPower (CE Spec Only)	
		Ref	Bellows Installations	
	1001146822	Ref	450A with Oscillating Axle	
	1001146823	Ref	450AJ with Oscillating Axle	
	0271315	Ref	Boom Wiper Installation	
	0256789	Ref	Camera Mount Assembly	
		Ref	Clear Sky (Telematic) Installation	
		Ref	Note: Refer to Manual Supplement p/n 3128499 for available replacement parts.	
	1001112983	Ref	ANSI Spec	
	1001132727	Ref	Australian Spec	
	1001112985	Ref	CSA Spec	
	1001127090	Ref	Brazil & New Zealand Spec Only	
		Ref	Clear Sky (Telematic) Kit (Includes Installation, Decals, User Guide and Manual 3128499)	
	1001119945	Ref	ANSI Spec	
	1001121614	Ref	ANSI Export & Japanese Specs	
	1001139146	Ref	Australian Specs	
	1001119950	Ref	CSA Spec	
	See Note	Ref	Brazil & New Zealand Spec Only (Note: Not Available for Purchase)	
		Ref	Cold Weather Start Kits	
	0273064	Ref	Caterpillar/Perkins Engine Machines	
	0271912	Ref	Deutz D2011 Engine Machines	
	1001151901	Ref	Deutz TD2.9L4 Engine Machines	
	0275054	Ref	GM Engine Machines	
	1001115476	Ref	Communication System (David Clark Intercom) Installation (ANSI Spec Only)	

SECTION 10 SPECIAL OPTIONS

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

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Container Transport Wheel Options (ANSI Export, Australian, CE & Japanese Specs Only)	
	0272031	Ref	2WD	
	0272031	Ref	4WD with 33/1550 x 16.5 Tires & Wheels	
	1001148145	Ref	4WD with 12 x 16.5 Tires & Wheels	
	1001148146	Ref	4WD with 14 x 17.5 Tires & Wheels	
		Ref	Decals Installations	
	1001127096	Ref	Decal - ClearSky	
	0274530	Ref	Decal - Head and Enquist Equipment	
	1001128983	Ref	Decal - Hertz	
	1001143074	Ref	Decal - Hewitt The Rental Store (English Language)	
	1001143509	Ref	Decal - Hewitt The Rental Store (French Language)	
	1702868	Ref	Decal - No Hands (English)	
	1704000	Ref	Decal - No Hands (English/French)	
	1704001	Ref	Decal - No Hands (English/Spanish)	
	1705969	Ref	Decal - No Hands (Korean)	
	1704002	Ref	Decal - No Hands (Portuguese/Spanish)	
	1001140620	Ref	Decal - Leavitt	
	0274245	Ref	Decal - National Equipment Services	
	1702962	Ref	Decal - Prop 65 Warning (Diesel Machines) (California Spec)	
	1702961	Ref	Decal - Prop 65 Warning (Gasoline Machines) (California Spec)	
	1001095408	Ref	Decal - RSC Equipment Rental	
	0272599	Ref	Decal - SkyCutter (ANSI, ANSI Export & CSA Specs)	
	0272607	Ref	Decal - SkyCutter (Japanese Specs)	
	1705358	Ref	Decal - SkyGlazier (ANSI & Australian Specs)	
	1705358	Ref	Decal - SkyGlazier (ANSI & Australian Specs)	
	0273380	Ref	Decal - SkyPower (ANSI & CSA Specs)	
	0272589	Ref	Decal - SkyPower (ANSI Export, & Australian, CE & Japanese Specs)	
	0272448	Ref	Decal - SkyWelder (60Hz) (ANSI & CSA Specs)	
	0272588	Ref	Decal - SkyWelder (50Hz) (ANSI Export, Australian & CE Specs)	
	0271628	Ref	Decal - Sunbelt	
	1001127096	Ref	Decal - Telematics (ClearSky)	
	1001151095	Ref	Decal - Titan	
	0271627	Ref	Decal - United Rentals	
	1001141472	Ref	Decal - Volvo	
	0272165	Ref	Decals - Warning Stripes	
		Ref	Electrical Connector Kits	
	1001148902	Ref	Amp/Tyco Electrical Connector Kit	
	1001148903	Ref	Deutsch DT Electrical Connector Kit	
	1001148904	Ref	Deutsch HD Electrical Connector Kit	
	1001148905	Ref	Packard Electrical Connector Kit	
	1001148906	Ref	Various Electrical Connectors Kit	

SECTION 10 SPECIAL OPTIONS

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

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
	0275055	Ref	Engine Block Heater Installation (GM Engine Machines)	
		Ref	Filter Kits	
	1001109698	Ref	Boom HydraulicAir Filter Kit Options:	
		Ref	Deutz Engine Machines	
	1001156538	Ref	Combined Filter Kit Options:	
		Ref	Caterpillar Engine Machines	
	1001156539	Ref	Deutz Engine Machines	
	See Note	Ref	Engine Fuel/Oil Filter Kit Options:	
		Ref	Deutz Engine Machines (Note: Not Available at Time of Printing)	
	1001145192	Ref	Fan Cover Installation (Deutz TD2.9L4 Only)	
	1001139099	Ref	Fire Extinguisher Installation	
		Ref	Fluids	
	2300040	Ref	Conditioner, Diesel Fuel	
		Ref	Coolant, Antifreeze (Caterpillar/GM Engine Machines)	
	2300004	Ref	Machines without Arctic Package	
	2300041	Ref	Machines with Arctic Package	
	3020021	Ref	Engine Coupling Grease	
		Ref	Engine Oil	
	3020016	Ref	Motor Oil (Caterpillar/Deutz Engine Machines without Arctic Package)	
	3020044	Ref	Motor Oil (Caterpillar/Deutz Engine Machines with Arctic Package)	
	1001115930	Ref	Motor Oil 10W-30 (GM Engine Machines without Arctic Package)	
	1001115931	Ref	Motor Oil 5W-30 Synthetic (GM Engine Machines with Arctic Package)	
		Ref	Hydraulic Fluids:	
	2300014	Ref	Mobil 424	
	2300027	Ref	Mobil 224H Bio	
	2300029	Ref	Mobil EAL ISO 46 Bio	
	2300016	Ref	Mobil DTE 10 Excel 32	
	2300019	Ref	Quaker State Quintolubric 888-46 Fire Resistant	
	2300039	Ref	Exxon Univis Hvl 26 (Machines with Arctic Package)	
	1001117294	Ref	Footswitch Shield Installation (Arctic)	

SECTION 10 SPECIAL OPTIONS

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

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Generator Installation (2500W Powermite)	
		Ref	Caterpillar Engine Machines	
	1001111285	Ref	110V - 60Hz (ANSI, ANSI Export & CSA Specs)	
	1001111815	Ref	110V - 50Hz (CE Specs Only)	
	1001111814	Ref	220V - 50Hz (CE Specs Only)	
		Ref	Deutz D2011 Engine Machines	
	1001115403	Ref	110V - 60Hz (ANSI, ANSI Export & CSA Specs)	
	1001115411	Ref	110V - 50Hz (CE Specs Only)	
	1001115412	Ref	220V - 50Hz (CE Specs Only)	
	See Note	Ref	Deutz TD2.9L4 Engine Machines (Note: Not Available on Machines with this Engine)	
		Ref	GM Engine Machines	
	1001141445	Ref	110V - 60Hz (ANSI, ANSI Export & CSA Specs)	
		Ref	Generator Installation (7500W SkyPower) (Note: See Sky Accessories)	
	1001094475	Ref	Hourmeter for Generator Installation	
	1001148971	Ref	Lanyard (Bolt-On) Kit Installation	
		Ref	Oil Cooler Installation	
	1001142868	Ref	Caterpillar Engines	
	1001142867	Ref	Deutz D2011& GM Engines	
	1001147052	Ref	Deutz TD2.9L4 Engines	
	0258703	Ref	Platform Console Cover Installation	
		Ref	Platform Entry Kits	
	1001142504	Ref	Drop Bar (Replacing Swing Gate with Drop Bar)	
	1001142505	Ref	Swing Gate (Replacing Drop Bar with Swing Gate)	
		Ref	Platform Mesh Installations (Side Entry Platforms) (ANSI, ANSI Export & CSA Specs)	
	0273148	Ref	30in X 6ft (76cm x 1.83m) Mesh to Top Rail	
	1001140315	Ref	30in X 5ft (76cm x 1.52m) Mesh to Mid Rail	
	0273146	Ref	30in X 5ft (76cm x 1.52m) Mesh to Top Rail	
	1001140318	Ref	30in X 4ft (76cm x 1.22m) Mesh to Mid Rail	
	0273147	Ref	30in X 4ft (76cm x 1.22m) Mesh to Top Rail	
	0274095	Ref	Platform Top Rail Extension	
	1001159121	Ref	Receptacle (240V) with GFI (Deutz TD2.9L4 Engines with SkyPower)	
	1001099806	Ref	Security Lock (Programmable) (ANSI & CE Specs)	

SECTION 10 SPECIAL OPTIONS

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

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	Sky Accessories/Work Station in the Sky	
		Ref	Note: For Breakdown of Sky Accessories Refer to Accessory Manual p/n 3124242	
	1001098149	Ref	SkyCutter Plasma Cutter 60Hz (ANSI, ANSI Export & Japanese Specs) (USA Built Machines)	
	1001101423	Ref	SkyGlazier (ANSI, CSA & Australian Spec w/o LSS)	
	1001102648	Ref	SkyGlazier (Australian Spec w/LSS)	
	1001146620	Ref	SkyPower Generator - 7500W 60Hz (Caterpillar) (ANSI, ANSI & CSA Export Specs)	
	1001147837	Ref	SkyPower Generator - 7500W 50Hz (Caterpillar) (CE Spec) (Not Available on 450A Series II)	
	1001147838	Ref	SkyPower Generator - 7500W 50Hz 110/220V (Caterpillar) (CE Spec) (Not Available on 450A Series II)	
	See Note	Ref	SkyPower Generator - 7500W 50Hz (Caterpillar) (ANSI Export & Australian Spec) (Note: Not Available)	
	1001146619	Ref	SkyPower Generator - 7500W 60Hz (Deutz D2011 Engine) (ANSI, ANSI Export & CSA Specs)	
	1001146618	Ref	SkyPower Generator - 7500W 110V/50Hz (Deutz D2011 Engine) (450AJ Series II ANSI Export, Australian, CE & Japanese Specs) (Not Available on 450A Series II)	
	1001147836	Ref	SkyPower Generator - 7500W 110V/50Hz (Deutz D2011 Engine) (450AJ Series II CE Spec) (Not Available on 450A Series II)	
	1001146637	Ref	SkyPower Generator - 7500W 60Hz (Deutz TD2.9L4 Engine) (ANSI & CSA Specs)	
	1001146621	Ref	SkyPower Generator - 7500W 60Hz (GM) (ANSI, ANSI Export & CSA Specs)	
	0272254	Ref	SkyWelder Stick Welder 60Hz (ANSI Spec)	
	0272521	Ref	SkyWelder Stick Welder 50Hz (ANSI Export, Australian & CE Specs)	
		Ref	SkyGuard Components	
	1001143669	Ref	SkyGuard Complete Installation Kit (UGM Equipped Machines)	
	1001137672	Ref	SkyGuard Platform Sensor Installation Kit (UGM Equipped Machines)	
	1001143256	Ref	SkyGuard Optional Blue Beacon Light Installation Kit	
		Ref	Tire Sealant Service (Pneumatic Tires Only)	
	0272307	Ref	12 x 16.5 Tires	
	0272308	Ref	33/1550 x 16.5 Tires	
		Ref	Tools for Service	
	2901443	Ref	Analyzer kit	
	8896941	Ref	Wire Stripper	
	7002821	Ref	Wire Crimper (To install wire ends to wires)	
	7002823	Ref	Pin/Socket Extractor - Universal (To Remove Pins/ Sockets from Connectors)	
	4460467	Ref	Extractor - 16-18 Gauge (For Removal of Pin/Sockets	

SECTION 10 SPECIAL OPTIONS

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

FIG&ITEM#	PART NUMBER	QTY.	DESCRIPTION	REV.
	4460510	Ref	from Deutsch Connectors) Extractor - 12-14 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	7002822	Ref	Screwdriver, Potentiometer (To Adjust Drive Controllers)	
	7016654	Ref	Screwdriver, Magnetic	
	7004275	Ref	Seal Installation Tool - 1"	
	7004276	Ref	Seal Installation Tool - 1 1/2"	
	7002826	Ref	Seal Installation Tool - 2"	
	7016655	Ref	Wire Rope Sheave Gauge	
	7002840	Ref	Anti-Rotation Pin Removal Tool (Use to Disassemble Lockout Valve)	
	1001137005	1	Cable Kit, Software (Not Shown)	
	0274883	Ref	Transformer (Cold Weather Package) Installation (ANSI Export Spec Only)	
	1001160532	Ref	Turntable Bearing Kit	
	0271529	Ref	Weld Leads at Platform Installation	

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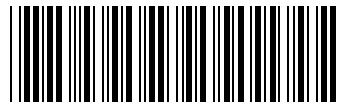
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