Illustrated Parts Manual

Model

510AJ

SN 1300000001
TO PRESENT
&
PRIOR TO
SN E300001114

3121182

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ANSI

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FIGURE 3-2. MAIN BOOM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Belgium Built Machines use SNs 13xxxxxxxx.**	
		Ref	**Romanian Built Machines use SNs E3xxxxxxxx.**	
		Ref	**MAIN BOOM AND CYLINDERS INSTALLATION**	
	0272496	Ref	**Booms and Cylinders Installation**	F
	1001098639	Ref	**Boom Assemblies**	E
101	0100011	AR	Compound, Locking	
105	0641608	1	Bolt 3/8in-16NC x 1in	
106	0641610	1	Bolt 3/8in-16NC x 1-1/4in	
108	0641810	2	Bolt 1/2in-13NC x 1-1/4in	
109	0641812	1	Bolt 1/2in-13NC x 1-1/2in	
112	0801337	1	Main Boom Assembly (See MAIN BOOM ASSEMBLY and Items 201-267 for Breakdown)	
116	1684241	1	Master Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
117	1684244	1	Upper Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
118	3311605	1	Locknut 3/8in-16NC	
119	3311805	1	Locknut 1/2in-13NC	
122	3422177	2	Pin	
123	3422178	1	Pin	
124	3422582	1	Pin	
126	3422806	1	Pin	
132	3841143	2	Keeper, Pin	
133	3841203	3	Keeper, Pin	
	0801337	Ref	**JIB INSTALLATION**	I
201	0060050	1	Rotator Assembly (See ROTATOR ASSEMBLY for Breakdown)	
202	0100011	AR	Compound, Locking	
208	0641406	2	Bolt 1/4in-20NC x 3/4in (Belgium Built Machines) **(Prior to SN 1300000144)**	
209	0641518	2	Bolt 516in-18NC x 2-1/4in	
211	0641607	1	Bolt 3/8in-16NC x 7/8in	
212	0641610	1	Bolt 3/8in-16NC x 1-1/4in	
213	0641616	4	Bolt 3/8in-16NC x 2in	
214	0641618	2	Bolt 3/8in-16NC x 2-1/4in	
215	0641810	1	Bolt 1/2in-13NC x 1-1/4in	
221		Ref	Bushing Options:	
221	0961947	4	Belgium Built Machines **(Prior to SN 1300006884)**	
221	0962292	4	Belgium Built Machines **(SN 1300006884 to Present)**	
221	0962292	4	Romanian Built Machines **(SN E300000100 through E300001114)**	
222	0961948	2	Bushing	
223	0961950	2	Bushing	
224	0961951	2	Bushing	
226	1320070	2	Clamp (Belgium Built Machines) **(Prior to SN 1300000144)**	
229	1671083	2	Cover, Jib Hose	
231		Ref	Level (Platform Slave) Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
231	1684240	1	Belgium Built Machines (Use p/n 1001094789) **(Prior to SN 1300004151)**	
231	1001094789	1	Belgium Built Machines **(SN 1300004151 to Present)**	
231	1001094789	1	Romanian Built Machines **(SN E300000100 through**	

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FIGURE 6-6. STANDARD HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STANDARD HYDRAULIC DIAGRAM**	
	2792580	Ref	**Turntable Hydraulic Diagram**	6
	2792584	Ref	**Main Boom Hydraulic Diagram**	2
	2792583	Ref	**Tower Boom Hydraulic Diagram**	1
1	2110404	10	Fitting, Straight	
2	2110406	3	Fitting, Straight	
3	2111212	1	Fitting, Straight	
4	2130406	3	Fitting, Elbow	
5	2170504	2	Fitting, Tee	
6	2150808	1	Fitting, Elbow	
7	2150606	1	Fitting, Elbow	
8	2170206	1	Fitting, Long Elbow	
9	2110606	11	Fitting, Straight	
10	2110410	2	Fitting, Straight	
11	2110606	2	Fitting, Straight (1.25in Length)	
11	2170106	2	Fitting, Long Straight (2.27in Length)	
12	2130606	2	Fitting, Elbow	
14	2150404	2	Fitting, Elbow	
15	2170406	1	Fitting, Tee	
16	2221086	7	Fitting, Pressure, Check	
17		Ref	Fitting Options:	
17	2130604	1	Fitting, Elbow	
17	2110604	1	Fitting, Straight	
18	2110604	1	Fitting, Straight	
19	2131210	1	Fitting, Elbow	
20	2170316	1	Fitting, Tee	
21	2170808	2	Fitting, Tee	
22	2111620	1	Fitting, Straight	
23	2111216	1	Fitting, Straight	
24	4641199	2	Valve, Check	
25	2753546	1	Hose	
26	2753546	1	Hose	
27	2753845	2	Hose	
28	2753548	2	Hose	
29	2753557	2	Hose	
30		Ref	Hose Options:	
30	2753550	2	Main Boom Hydraulic Diagram (66in Length)	
30	2753675	2	Standard Hydraulic Diagram (84in Length)	
31	2753847	1	Hose	
32	2753552	1	Hose	
33	2753553	1	Hose	
34	2753846	1	Hose	
35	2753561	1	Hose	
36	2753562	1	Hose	
37	2753563	1	Hose	
38	4568280	1	Tube	
39	2753565	1	Hose	
40	2753566	1	Hose	
41	2753567	2	Hose	
42	2753568	1	Hose	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273064	Ref	**Caterpillar/Perkins Engine Machines**	
	0272031	Ref	**Container Transport Wheels**	
		Ref	**Decals Installations**	
	1704150	1	Decal - Glow Plug Warning	
	0272607	Ref	Decal - Glow Plug Warning	
	1705358	Ref	Decal - SkyCutter	
	0272919	Ref	Decal - SkyGlazier (ANSI and Australian Specs)	
	0272589	Ref	Decal - SkyPower	
	0272920	Ref	Decal - SkyPower	
	0272588	Ref	Decal - SkyWelder	
		Ref	Decal - Telematics Options (ClearSky) (Without UGM):	
	1001116373	Ref	ANSI Spec	
	1001116374	Ref	CSA Spec	
	1001127096	Ref	Decal - Telematics (ClearSky) (With UGM)	
	0272165	Ref	Decal - Warning Stripes	
	0258919	Ref	**Ether Start Installation (Deutz Engine Machines)**	
		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	
	1001130758	Ref	**Engine Fan Kit (Perkins Engine Machines) (Kit converts Electric Cooling Fan to Engine Driven Cooling Fan)**	
		Ref	**Filter Kits**	
		Ref	**Boom HydraulicAir Filter Kit Options:**	
	1001114060	Ref	Belgium Built Machines (Use p/n 1001109694) **(Prior to SN 1300001243)**	
	1001114120	Ref	Belgium Built Machines (Use p/n 1001109694) **(Prior to SN 1300001243)**	
	1001114061	Ref	Belgium Built Machines (Use p/n 1001109698) **(SN 1300001243 to Present)**	
	1001114121	Ref	Belgium Built Machines (Use p/n 1001109698) **(SN 1300001243 to Present)**	
	1001109698	Ref	Romanian Built Machines **(SN E300000100 through E300001114)**	
		Ref	**Combined Filter Kit Options:**	
	2910495	Ref	Deutz Engines Belgium Built Machines (Use p/n 1001110997) **(Prior to SN 1300001243)**	
	1001114129	Ref	Deutz Engines Belgium Built Machines (Use p/n 1001110997) **(Prior to SN 1300001243)**	
	1001114128	Ref	Deutz Engines Belgium Built Machines (Use p/n 1001110999) **(SN 1300001243 to Present)**	
	1001110999	Ref	Deutz Engines Romanian Built Machines **(SN E300000100 through E300001114)**	
	1001114063	Ref	Perkins Engines without UGM (Use p/n 1001111001)	
	1001114122	Ref	Perkins Engines with UGM	
		Ref	**Engine Fuel/Oil Filter Kit Options:**	
	1001110138	Ref	Deutz Engines	
	1001110143	Ref	Perkiins Engines	
		Ref	**Fluids**	
	2300014	Ref	Brake Fluid (4WD Drive Brake)	
	2300040	Ref	Conditioner, Diesel Fuel	
	2300004	Ref	Coolant, Antifreeze (Caterpillar and Perkins Engines)	

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