An Oshkosh Corporation Company

Service and Maintenance Manual

Models
E300AJ
E300AJP

PVC 2007

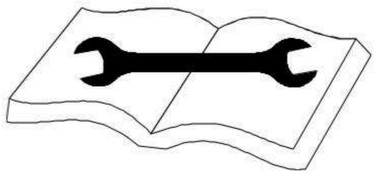
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SECTION NO.	TITLE	PAGE NO.
SECTION A - INTRODUCTION - MAINTENANCE SAFETY PRECAUTIONS		
A	General	A-1
B	Hydraulic System Safety	A-1
C	Maintenance	A-1
SECTION 1 - SPECIFICATIONS		
1.1	Operating Specifications	1-1
	Machine Specification E300AJ	1-1
	Machine Specification E300AJP	1-1
1.2	Capacities	1-1
1.3	Tires	1-1
1.4	Dimensional Data	1-2
1.5	Lubrication Specifications	1-2
	Hydraulic Oil	1-2
1.6	Critical Stability Weights	1-4
1.7	Major Component Weights	1-4
1.8	Operator Maintenance	1-6
1.9	Thread Locking Compound	1-8
1.10	Torque Charts	1-9
	SAE Fastener Torque Chart	1-9
	Metric Fastener Torque Chart	1-15
SECTION 2 - GENERAL		
2.1	Machine Preparation, Inspection, and Maintenance	2-1
	General	2-1
	Preparation, Inspection, and Maintenance	2-1
	Pre-Start Inspection	2-1
	Pre-Delivery Inspection and Frequent Inspection	2-1
	Annual Machine Inspection	2-1
	Preventative Maintenance	2-1
2.2	Service and Guidelines	2-2
	General	2-2
	Safety and Workmanship	2-2
	Cleanliness	2-2
	Components Removal and Installation	2-2
	Component Disassembly and Assembly	2-3
	Pressure-Fit Parts	2-3
	Bearings	2-3
	Gaskets	2-3
	Bolt Usage and Torque Application	2-3
	Hydraulic Lines and Electrical Wiring	2-3
	Hydraulic System	2-3
	Lubrication	2-4
	Battery	2-4
	Lubrication and Servicing	2-4
2.3	Lubrication and Information	2-4
	Hydraulic System	2-4
	Hydraulic Oil	2-4
	Changing Hydraulic Oil	2-4
	Lubrication Specifications	2-4
2.4	Cylinder Drift	2-5
	Theory	2-5
	Cylinder Leakage Test	2-5
	Cylinder Thermal Drift	2-5
2.5	Pins and Composite Bearing Repair Guidelines	2-6

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SECTION NO.	TITLE	PAGE NO.
2.6	Welding on JLG Equipment	2-6
	Do the Following When Welding on JLG Equipment	2-6
	DO NOT Do the Following When Welding on JLG Equipment	2-6
SECTION 3 - CHASSIS & TURNTABLE		
3.1	Tires & Wheels	3-1
	Tire Damage	3-1
	Tire Replacement	3-1
	Wheel and Tire Replacement	3-1
	Wheel Installation	3-1
3.2	Spindle	3-2
	Setting Wheel Bearing End Play	3-2
	Specifications	3-2
	Checking	3-2
	Greasing Requirements	3-2
3.3	Tilt Sensor	3-7
3.4	Speed Sensor	3-7
3.5	Drive Hub	3-11
	Roll and Leak Testing	3-11
	Tightening and Torquing Bolts	3-11
	Main Disassembly	3-12
	Output Carrier Disassembly	3-14
	Input Carrier Disassembly	3-16
	Hub Spindle Disassembly	3-17
	Cover Disassembly	3-18
	Input Carrier Assembly	3-19
	Output Planet Gear Assembly	3-19
	Output Carrier Assembly	3-20
	Hub Spindle Assembly	3-20
	Cover Assembly	3-21
	Main Assembly	3-21
3.6	Drive Motor	3-25
	Removal	3-25
	Disassembly	3-25
	Inspection	3-25
	Assembly	3-26
	Installation	3-26
3.7	Swing Drive	3-29
	Disassembly	3-29
	Assembly	3-30
3.8	Swing Motor	3-32
	Preparation Before Disassembly	3-35
	Disassembly and Inspection	3-35
	Assembly	3-42
	One Piece Stator Construction	3-48
	Two Piece Stator Construction	3-49
	Final Checks	3-49
	Installation Torque	3-49
3.9	Swing Bearing	3-50
	Turntable Bearing Mounting Bolt Condition Check	3-50
	Wear Tolerance	3-50
	Replacement of Swing Bearing	3-53
	Swing Bearing Torque Value	3-55
3.10	Battery Maintenance and Charging	3-56
	Battery Maintenance, Quarterly	3-56
	Battery Charging, Daily	3-56

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SECTION NO.	TITLE	PAGE NO.
3.11	Battery Charger	3-57
	Operating Instructions	3-57
	Maintenance Instructions	3-58
	Battery Charger Fault Codes	3-58
	Excessive Battery Watering Requirements or Strong Sulphur (Rotten Egg) Smell	3-62
	Instructions for using the Delta-Q QuiQ Programmer CTQuiQ Programming Kit	3-63
	Checking/Changing the Battery Charger Algorithm	3-64
3.12	Chassis Tilt Indicator System	3-65
3.13	Drive Orientation System	3-65
3.14	Hoods	3-66
SECTION 4 - BOOM & PLATFORM		
4.1	Platform Control Enable System	4-1
4.2	Function Speed Control System	4-1
4.3	Transport Position Interlock System	4-1
4.4	Above Elevation (Above Horizontal) Cutout System	4-1
4.5	Platform Load Control System	4-1
4.6	Positive Opening Switch Systems	4-1
4.7	Platform	4-2
	Support Removal	4-2
	Support Installation	4-3
4.8	Boom Maintenance	4-6
	Removal of the Main Boom	4-6
	Disassembly of the Main Boom	4-6
	Inspection	4-8
	Assembly of the Main Boom	4-8
	Installation of the Main Boom	4-9
4.9	Wear Pads	4-19
4.10	Tilt Sensor Check	4-19
4.11	Boom Limit Switches	4-19
4.12	Boom Cleanliness Guidelines	4-21
4.13	Foot Switch Adjustment	4-21
4.14	Articulating Jib Boom	4-22
	Removal	4-22
	Disassembly	4-22
	Inspection	4-22
	Assembly	4-23
	Installation	4-23
4.15	Boom Synchronizing Procedure	4-23
4.16	Rotary Actuator	4-24
	Theory Of Operation	4-24
	Tools Required for Assembly/Disassembly	4-24
	Disassembly	4-27
	Inspection	4-30
	Assembly	4-31
	Installing Counterbalance Valve	4-35
	Greasing Thrust Washers	4-36
	Testing the Actuator	4-36
	Installation and Bleeding	4-37
	Troubleshooting	4-38
4.17	Powertrack Maintenance	4-39
	Removing a Link	4-39
	Installing a New Link	4-42
	Replacing Fixed End Brackets	4-47
	Replacing Moving End Brackets	4-49

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1.6 CRITICAL STABILITY WEIGHTS

⚠ WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY, SUCH AS BATTERIES OR TIRES, WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION. DO NOT MODIFY THE MEWP IN ANY WAY TO AFFECT STABILITY.

Component	LB	KG.
Counterweight (AJ)	6188	2807
Counterweight (AJP)	6348	2880
Tire and Wheel	120	54.4
Platform (including console)	169	78
Battery (minimum each) - 305AH	87	39.5
Battery (minimum each) - 305AH (AGM)	108	49
Battery (minimum each) - 375AH & UL	110	50

1.7 MAJOR COMPONENT WEIGHTS

Component	LB	KG.
Platform and Support	215	97.5
Upper Boom Complete	450	204
Mid Boom Complete	419	190
Lower Boom Complete	419	190
Upper Lift Cylinder	97	44
Mid Lift Cylinder	60	27
Lower Lift Cylinder	130	59
Master Cylinder	405	184
Platform Level Cylinder	432	196
Telescope Cylinder	103	47
Upper Upright	222	101
Lower Upright	93	42
Turntable	948	430
Battery Box (incl. batteries)	600	272
Chassis (w/ pneu. tires)	4295	1948
Chassis (w/ foam-filled tires)	4695	2130
Counterweight (AJ)	6188	2807
Counterweight (AJP)	6348	2880
Machine Complete	15400	6985

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Diagnostics & Troubleshooting

If SkyGuard does not function when the sensor is engaged, first verify the configuration under the MACHINE SETUP: SKYGUARD OPTION menu using the handheld Analyzer. Ensure the selected configuration matches the actual system installed on the machine. If not, select the correct configuration, then verify operation.

Additionally, use the handheld analyzer to navigate to the DIAGNOSTICS: FEATURES → SKYGUARD INPUTS menu to determine additional SkyGuard fault information.

Engage the SkyGuard sensor and observe the Analyzer to determine if the switch/relay closes.

If the status of the switch/relay remains OPEN while the SkyGuard sensor is actively engaged, it is possible the sensor has failed and should be replaced immediately.

If the status of the switch/relay remains CLOSED while the SkyGuard sensor is actively engaged, a power or ground wire may not be making good contact or may be loose or broken. Additionally, there is a low probability that both relays may have failed.

If the switch/relay status is in disagreement, then one may have failed or is not installed correctly. In this case, the machine will be inoperable.

FAULT CODES

Refer to Table 6-11 for more fault code information

- **0039** - SkyGuard switch activation fault
- **2563** - SkyGuard switch disagreement fault

Table 4-2. SkyGuard Function Table

Drive Forward	Drive Reverse	Steer	Swing	Tower Lift Up	Tower Lift Down	Boom Lift Up	Boom Lift Down	Boom Tele Out	Boom Tele In	Jib Lift	Jib Swing	Basket Level	Basket Rotate
R*/C**	R	C	R	R	C	R	C	R	C	C	C	C	C
R = Indicates Reversal is Activated													
C = Indicates Cutout is Activated													
*DOS (Drive Orientation System) Enabled													
**DOS Not Enabled, Machine is driving straight without steering, and any other hydraulic function is active													

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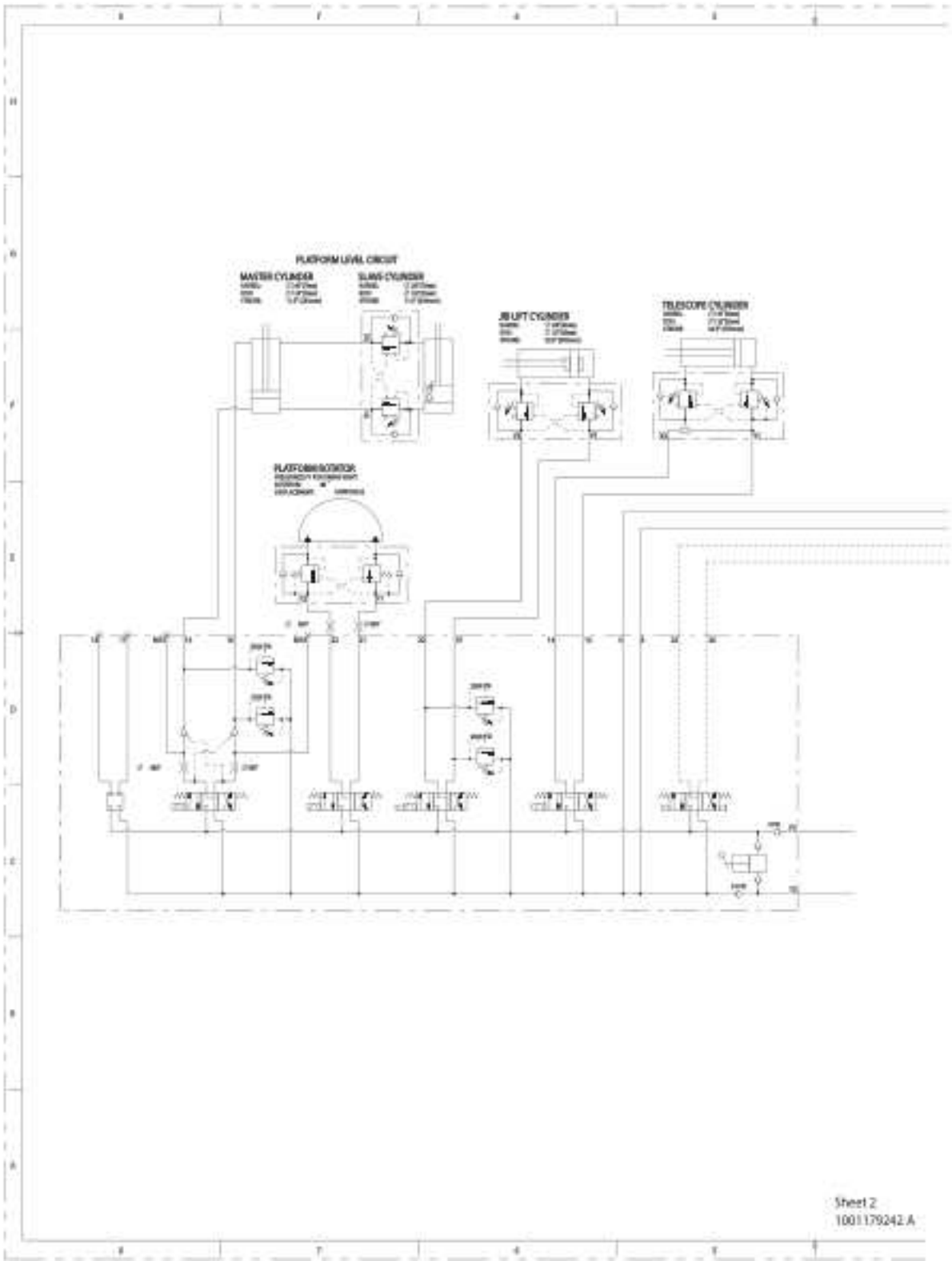
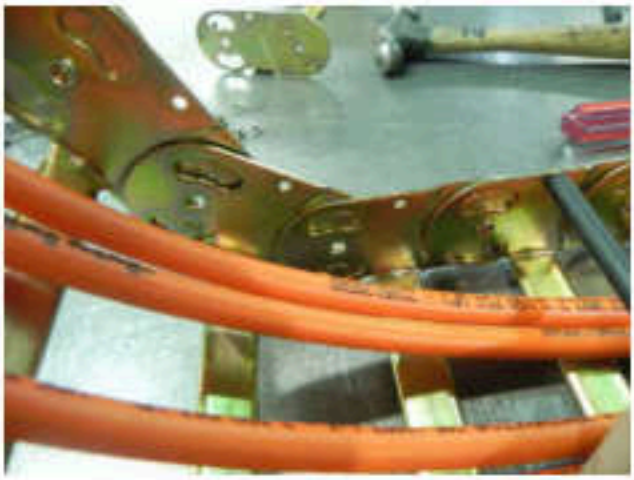


Figure 5-86. Hydraulic Schematic (E300AJ) - Sheet 3 of 4

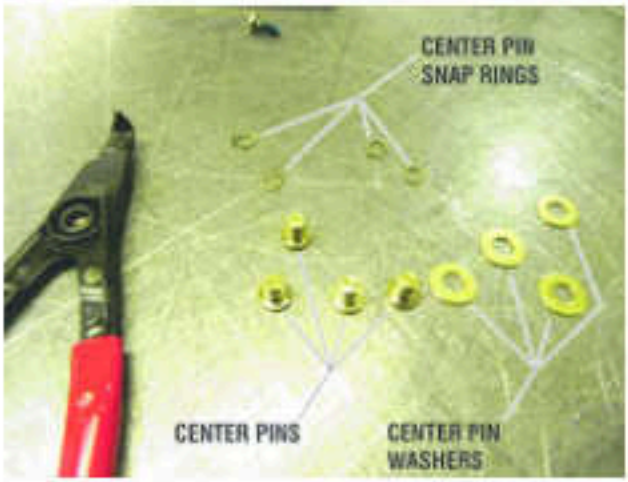
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4. Pull the moving end out over the track so that the new connection is positioned in the curve of the powertrack. In this position the round half-shears will rotate into the peanut cut outs.





5. The parts shown below will be used to connect the new link to the powertrack.



6. Push pin thru center hole then slide washer on pin.





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5.6 INITIAL HYDRAULIC PUMP START-UP PROCEDURE

This procedure must be used when the hydraulic pump or pump/motor assembly is removed or replaced to ensure there is no air trapped in the hydraulic system. Having air in the system can cause damage to the pump.

Procedure

1. Fill the hydraulic reservoir approximately 3/4 full of hydraulic fluid.



2. Unscrew the breather/filler cap from the reservoir.
3. Connect a pressure test hose to the MP port on the Main Control Valve.



4. Insert the other end of the pressure test hose into the hydraulic reservoir's breather/filler port.



NOTE: *Steps 5 and 6 require an assistant.*

5. From the Ground Control Console, momentarily (1 second maximum) activate the platform rotate switch and release.



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