An Oshkosh Corporation Company

Service and Maintenance Manual

Models
E300AJ
E300AJP

PVC 2001

31215001

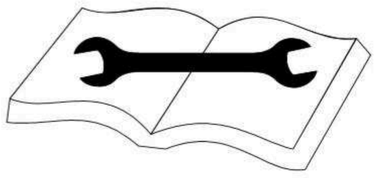
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1.6 CRITICAL STABILITY WEIGHTS

⚠ 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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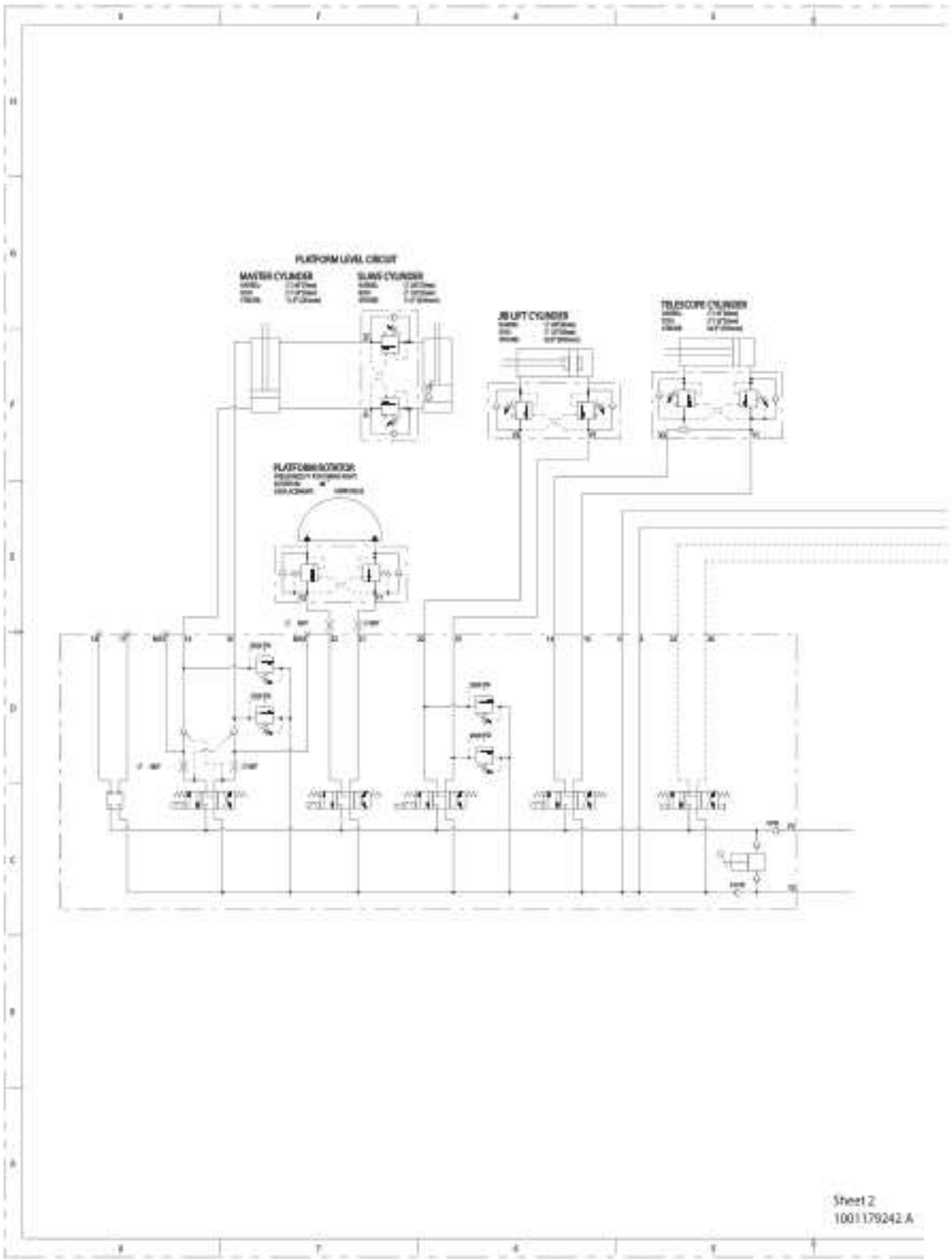
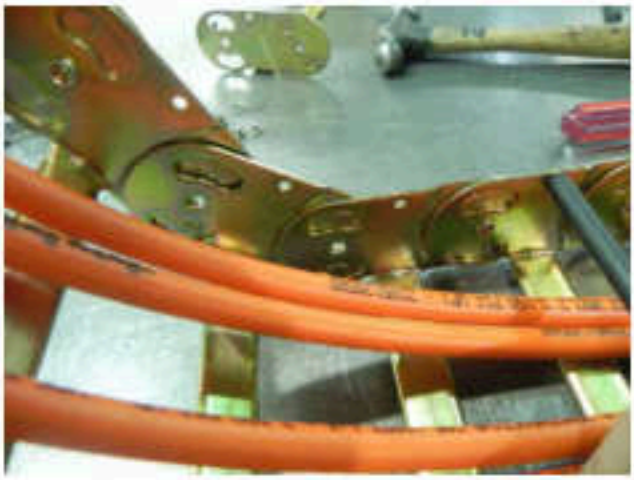


Figure 5-86. Hydraulic Schematic (E300AJ) - Sheet 3 of 4

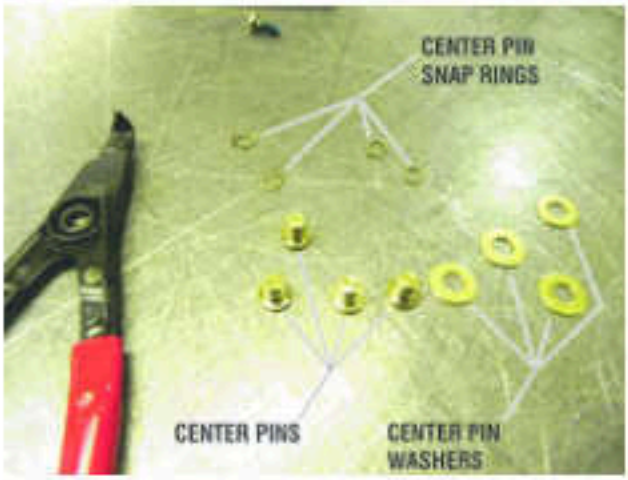
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4. Pull the moving end out over the track so that the new connection is positioned in the curve of the powertrack. In this position the round half-shears will rotate into the peanut cut outs.





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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