An Oshkosh Corporation Company

Service and Maintenance Manual

Models
E300AJ
E300AJP

SN 0300211844 to Present

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1.4 DIMENSIONAL DATA

Table 1-5. Dimensional Data- E300AJ

Turning Radius (Inside)	5 ft. (1.52 m)
Turning Radius (Outside)	10ft. 2in. (3.1 m)
Machine Height (stowed)	6ft. 7in. (2.01 m))
Machine Length (stowed)	18ft. 2in. (5.54 m)
Up and Over Platform Height	13ft. 2in. (4.01 m)
Horizontal Reach Up and Over	20ft. 3in. (6.17 m)
Machine Width	4ft. (1.22 m)
Wheel Base	5ft. 5in. (1.65 m)
Platform Height	30ft. 2in. (9.19m))
Ground Clearance	4in. (10 cm)

Table 1-6. Dimensional Data - E300AJP

Turning Radius (Inside)	5ft. (1.52 m)
Turning Radius (Outside)	10ft. 2in. (3.1 m)
Machine Height (stowed)	6ft. 7in. (2.01 m))
Machine Length (stowed)	18ft. 10in. (5.74 m)
Up and Over Platform Height	13ft. 2in. (4.01 m)
Horizontal Reach Up and Over	20ft. 1in. (6.12 m)
Machine Width	4ft. (1.22 m)
Wheel Base	5ft. 5in. (1.65 m)
Platform Height	29ft. 5in. (8.97 m)
Ground Clearance	4in. (10 cm)

1.5 LUBRICATION SPECIFICATIONS

Refer to Section 1.9, Operator Maintenance, for specific lubrication procedures.

Hydraulic Oil

Table 1-7. Hydraulic Oil

Hydraulic System Operating Temperature Range	S.A.E. Viscosity Grade
+0°to+180°F (-18°to+83°C)	10W
+0°to+210°F (-18°to+99°C)	10W-20, 10W30
+50°to+210°F (+10°to+99°C	20W-20

NOTE: *Hydraulic oils must have anti-wear qualities at least to API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service.*

NOTE: *Machines may be equipped with Mobil EAL224H biodegradable and non-toxic hydraulic oil. This is vegetable oil based and possesses the same antiwear and rust protection characteristics as mineral oils, but will not adversely affect the ground water or the environment when spilled or leaked in small amounts. Mobil EAL224H has a viscosity of 34 cSt at 40° C. and viscosity index of 213. The operating temperature range of this oil is -18° C. to +83° C.*

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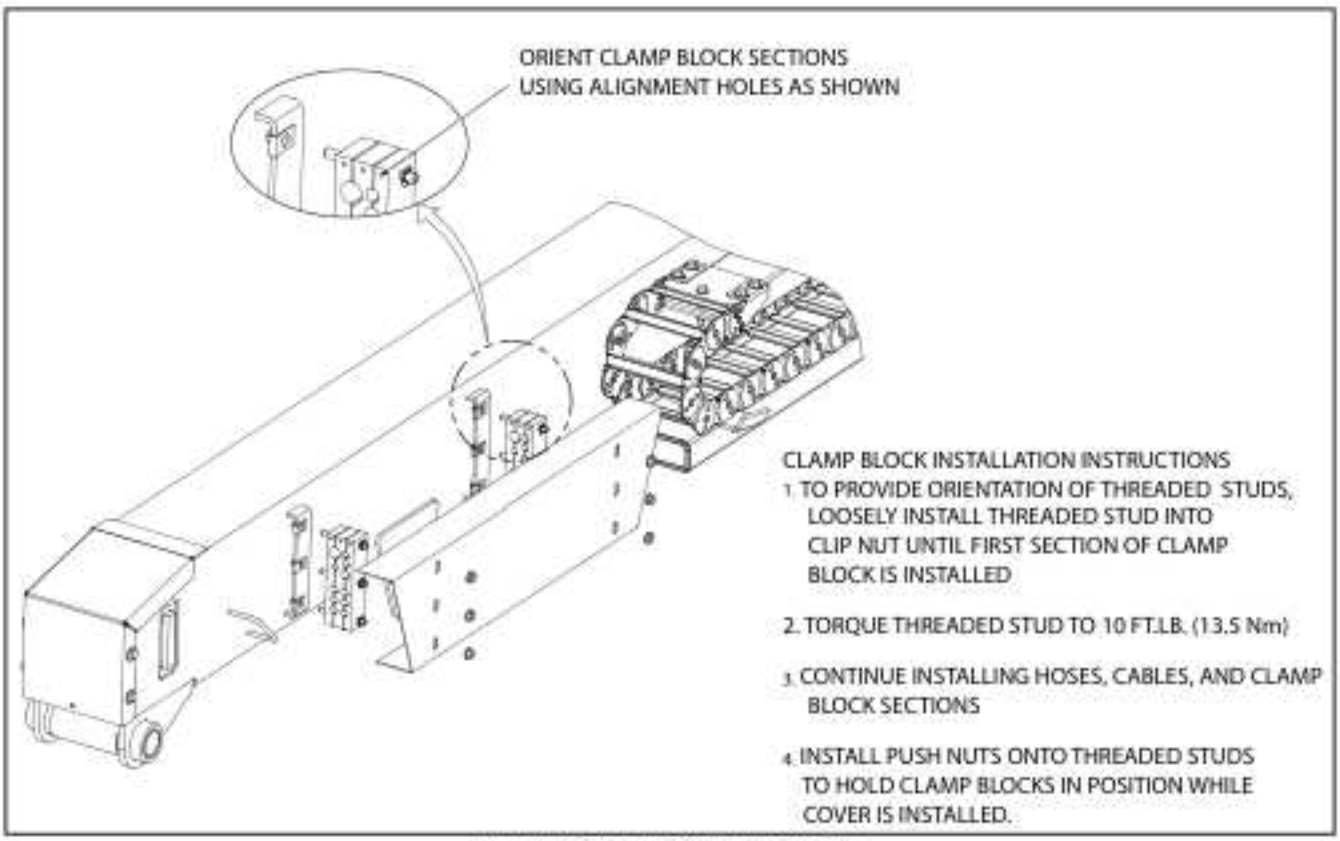
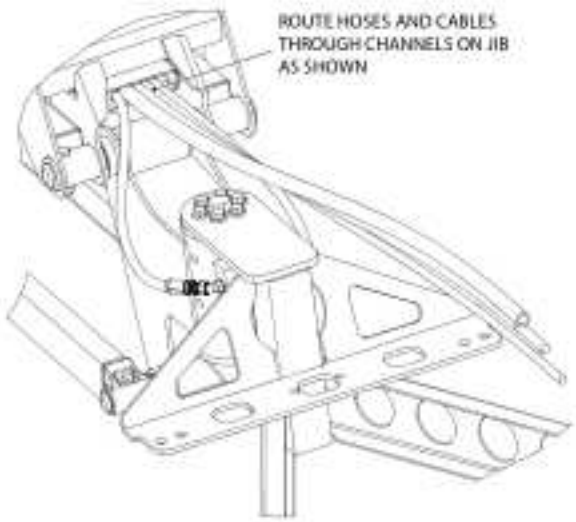


Figure 4-6. Clamp Block Installation

13. Using JLG Threadlocker P/N 0100011 or equivalent, install the retaining bolt, keeper, and pin that secures the level cylinder to the jib. Torque the retaining bolt to 35 ft.lbs. (48 Nm).

14. Route the hydraulic hoses on top of the jib and install the hose cover.



15. Connect all hydraulic lines running to the plaform rotator, jib rotator (if equipped), and jib cylinder as tagged during removal.

16. Connect all electrical lines running to the platform as tagged during removal.

17. Using all safety precautions, operate machine systems and extend and retract boom for four or five cycles, checking for proper operation.

18. Shut down the machine and check for leakage.

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5.6 HYDRAULIC SCHEMATICS

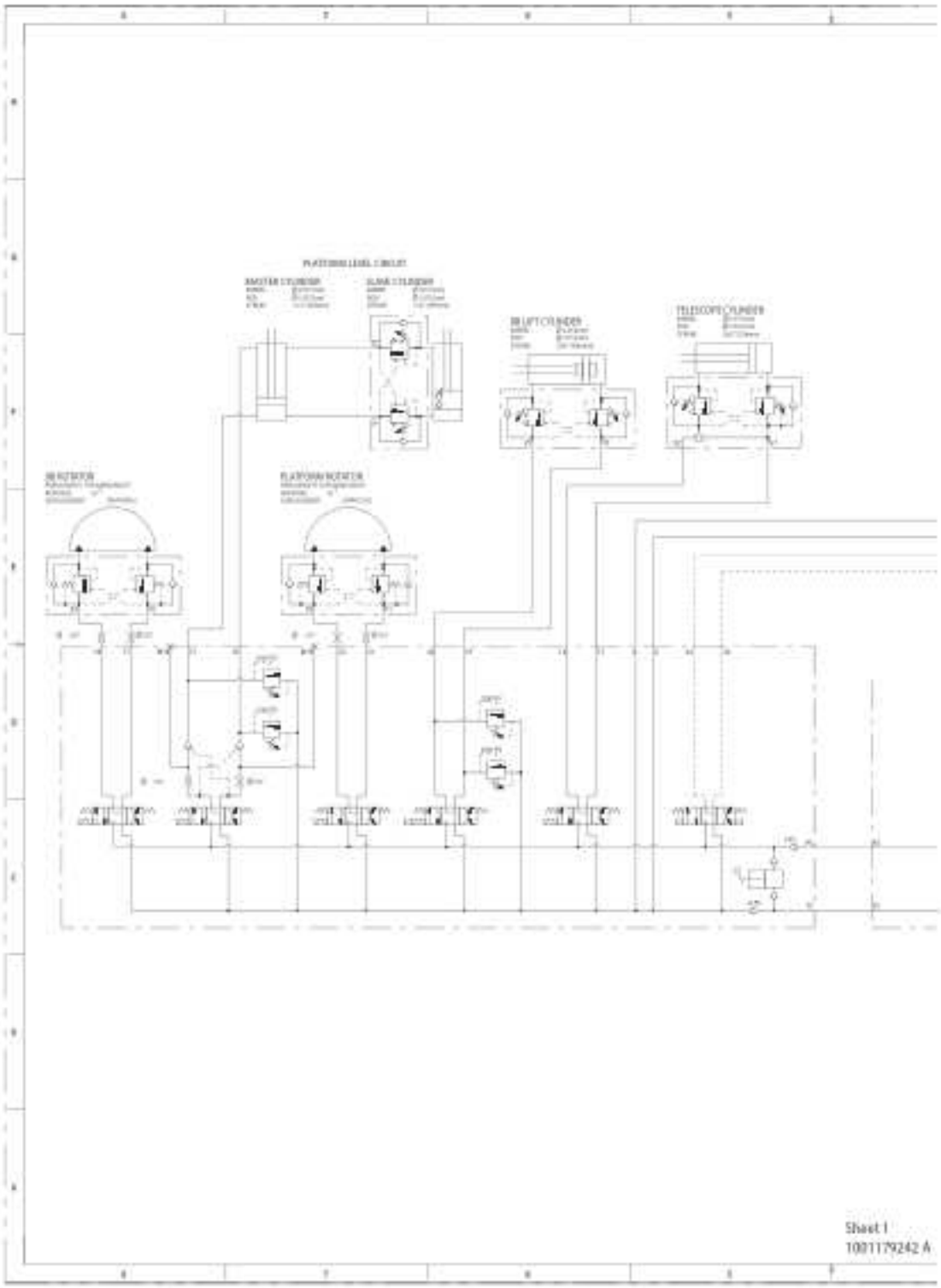
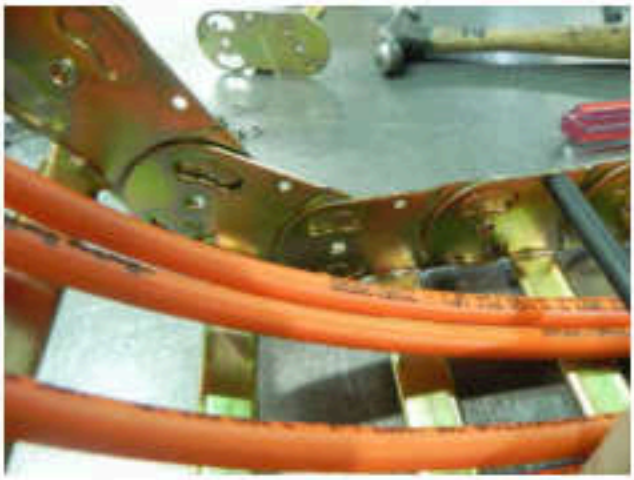


Figure 5-70. Hydraulic schematic (E300 AJP) - Sheet 1 of 4

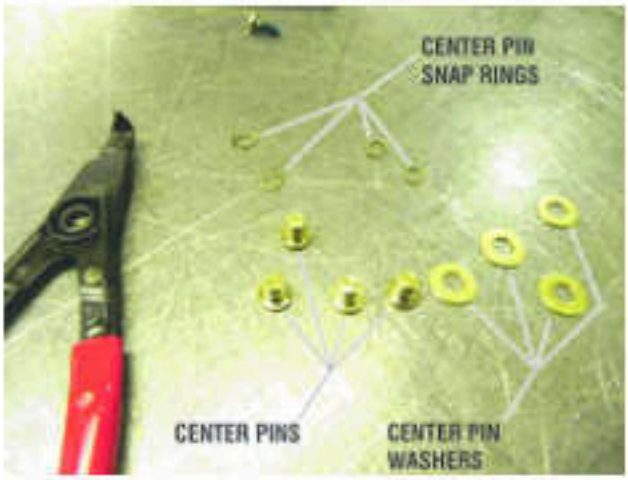
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4. Pull the moving end out over the track so that the new connection is positioned in the curve of the powertrack. In this position the round half-shears will rotate into the peanut cut outs.





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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BRAD HARRISON / PHOENIX CONTACT M12

The connector uses gold contact material to resist corrosion and an o-ring seal for moisture integrity. If dielectric grease is mistakenly applied to this connector system, the low-force contacts cannot displace the grease to achieve electrical contact. Once contaminated, there is no practical way to remove the dielectric grease (replacement of female contacts required). The JLG Load Sensing System and 1250AJP Rotary Angle Sensors are examples of components with the M12 connector system.





AMP JUNIOR TIMER

This type of connector uses back-seals for moisture integrity. However, the low-force contacts cannot displace dielectric grease and create electrical contact. It is possible to use solvents (i.e. contact cleaner or mineral spirits) for the removal of improperly applied dielectric grease. The EMR2 engine control module from Deutz employs this connector system (for example).



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