An Oshkosh Corporation Company

Service and Maintenance Manual

Models
X13JP - X370AJ
X15JP - X430AJ

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ANSI

CE

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1.4 SPECIFICATIONS AND PERFORMANCE DATA

Reach Specifications

Table 1-8. Machine Reach Specifications

	X13JP CE	X370AJ ANSI	X15JP CE	X430AJ ANSI
Max. working Height (inclusive operator)	13,30 m	N/A	15,40 m	N/A
Max. Height (basket floor)	11,20 m	36,74 ft	13,30 m	59,21 ft
Max working Horizontal Outreach	7,08 m	23,22 ft	6,60 m	31,82 ft
Up & Over Height	4,90 m	16,07 ft	7,00 m	26,90 ft
Swing (non - continuous)	360°			
Max slope allowed in travel direction	16° / 28,7%			
Max stabilization slope	15°			
Max Approach angles	20°/36°			

Dimensional Data

Table 1-9. Machine Dimensional Data

	X13JP X370AJ	X15JP X430AJ
Platform size (standard 2 persons)	1305 X 690 mm (51,38 X 27,17 in.)	1335 X 690 mm (52,56 X 27,17 in.)
Stowed width (with std. 2P platform)	3900 mm (153,54 in.)	4020 mm (158,26 in.)
Stowed width (without platform)	3280 mm (129,13 in.)	3400 mm (133,85 in.)
Stowed height (on tracks)	1995 mm (78,54 in.)	1990 mm (78,34 in.)
Stowed length	-	4020 mm (158.26 in.)
Outrigger footprint (Disc Center)	2800 mm X 2800 mm (110,23 in. X 110,23 in.)	
Outrigger footprint reduced stabilization area (Disc Center)	NA	
Gross machine weight		
Gasoline:	2185 Kg (4817,00 lb)	1940 Kg (4277 lb.)
Diesel:		1960 Kg (4321 lb.)
Lithium Battery:	2220 Kg (4894,26 lb)	1992 Kg (4392 lb.)

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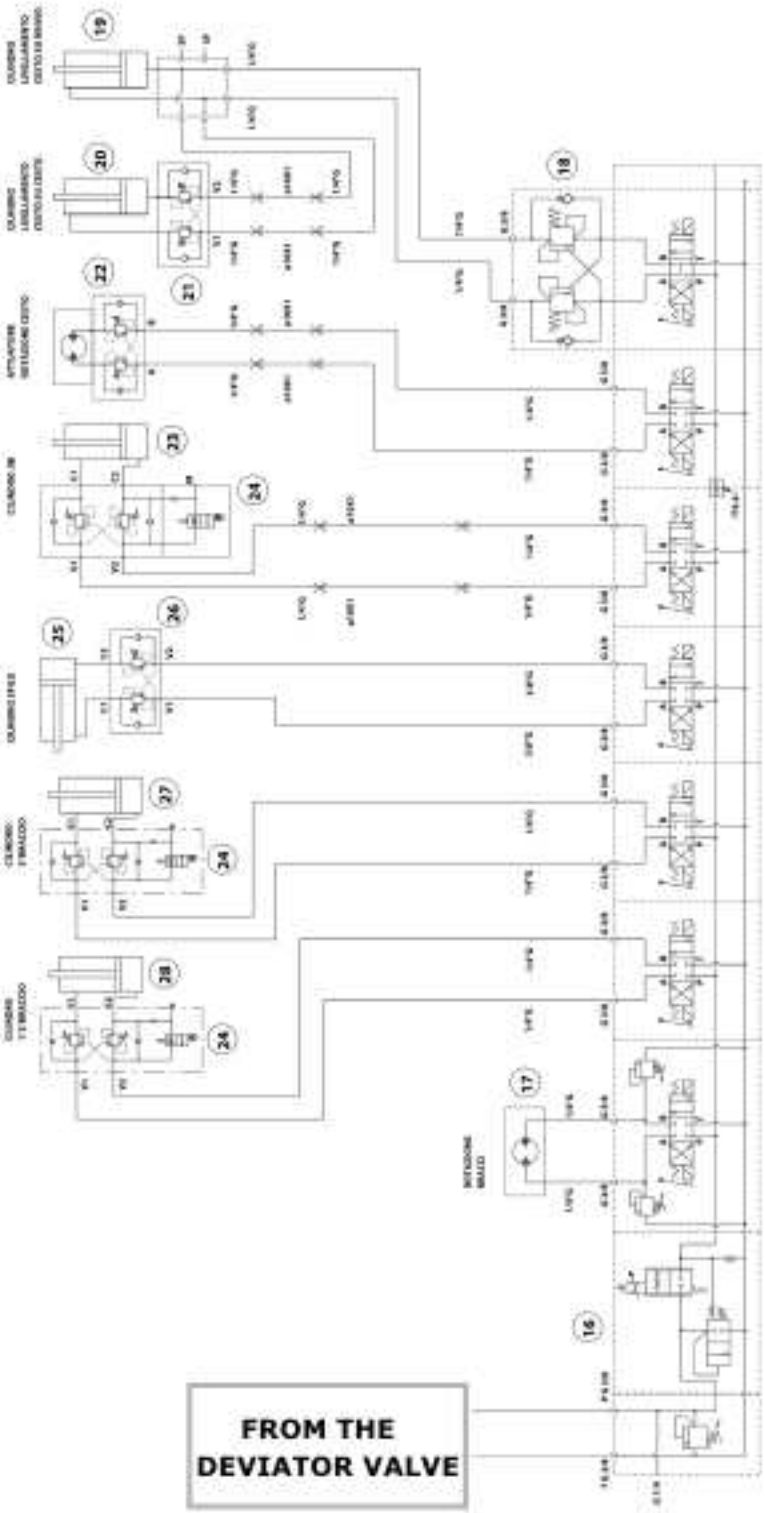


Figure 5-33. X15JP/X430AJ - Hydraulic Schematic - 2 of 2

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Continuity Measurement Over Long Distances

When trying to determine continuity of a harness or wire, longer than the reach of standard instrument leads, is possible to perform the check without excessively long leads. Using the other wires in the harness one can determine the condition of a particular wire in the harness.

Requirements:

- Harness with at least three separate wires including the wire under test.
- These wires must be able to be isolated from other wires, etc.
- Jumper or method to connect contacts on one side of harness.
- Meter that can measure resistance or continuity.

Procedure

Test multimeter leads resistance. Subtract this value from the measured resistance of the wires to get a more accurate measurement.

Consult the circuit schematic to determine which wires to use in addition to wire under test, here called wire #1 and wire #2, and how to isolate these wires. These wires should appear in the same connectors as the wire under test or are within reach of the jumper.

1. Disconnect all connections associated with the wire under test and the two additional wires. If harness is not completely isolated disconnect battery terminals also, as a precaution.
2. Measure continuity between all three wires, the wire under test, wire #1 and wire #2. These should be open. If not, repair the shorted wires or replace the harness.
3. On one side, jumper from contact of wire #1 and wire #2.
4. Measure continuity between wire #1 and wire #2. If there is continuity, both wires are good and can be used for this test. If there is not continuity, either wire could be bad. Check connections and measurement setup. Redo measurement. If still no continuity, repair wires or consult schematic for other wires to use for test.
5. Jumper from wire under test to wire #1.
6. Measure continuity. If there is continuity, the wire under test is good. Resistance of a wire increases as the length increases and as the diameter decreases.

One can find the continuity of two wires, here #1 and #2, at once by following steps 1 through 4. If there is a prob em the third wire is used to troubleshoot the other wires. To find the problem, start at step 1 and use the entire procedure.

7.3 ELECTRICAL SCHEMATICS MANUALS

The electrical schematics manuals are separate from this manual. They are available online (Online Express or www.jlg.com - Manuals) in the same folder where this Service Manual was found.

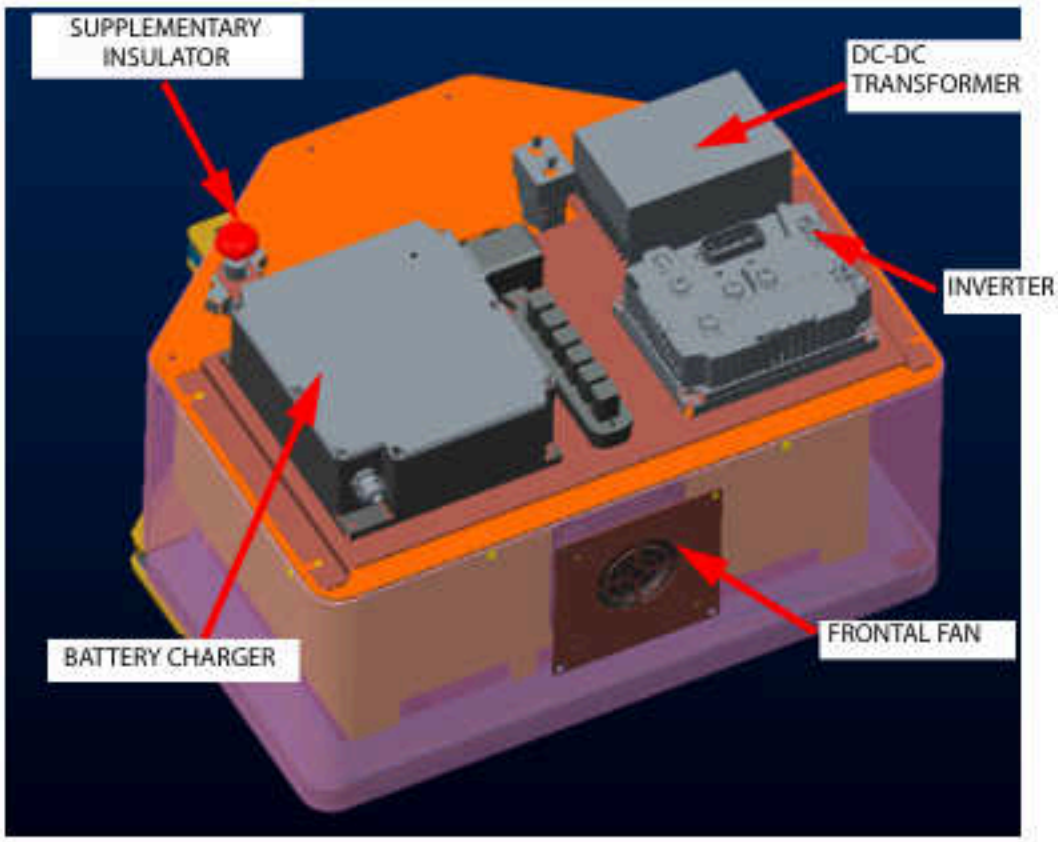
Here is a listing of the schematic manuals available:

X13JP-X370AJ & X15JP-X430AJ.....3121779

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Lithium System Components Location

Upper Layer



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Aerial Part Hydraulic System

The conditions while aerial part could be moved is detailed on chapter 5.

The aerial part is controlled by an hydraulic valve blocks equipped with one maximum pressure valve, one proportional valve and an ON-OFF valve for each aerial part movement.

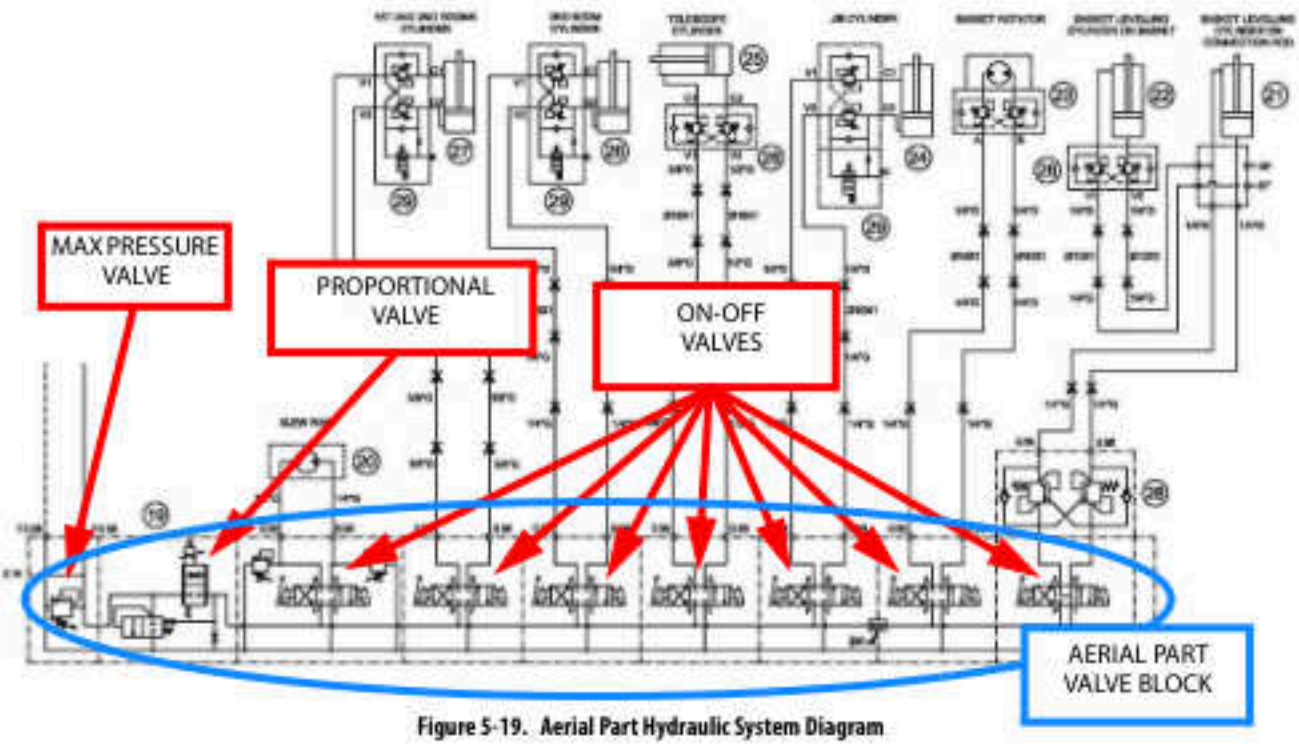


Figure 5-19. Aerial Part Hydraulic System Diagram

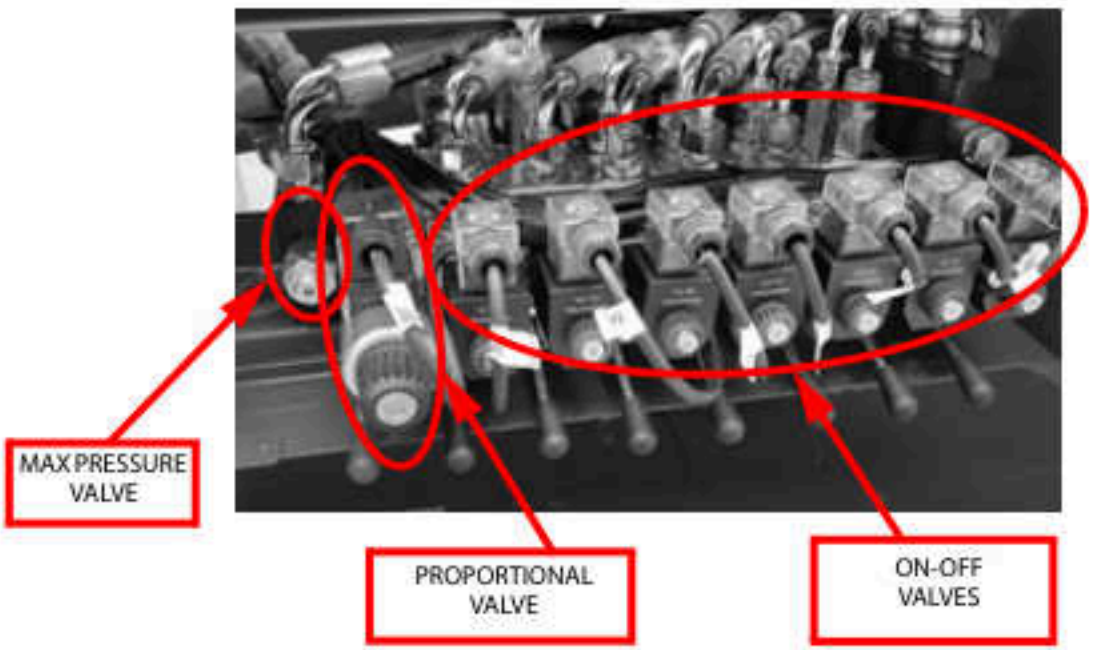


Figure 5-20. Aerial Part Hydraulic System

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