An Oshkosh Corporation Company

Service and Maintenance Manual

Model

1500SJ

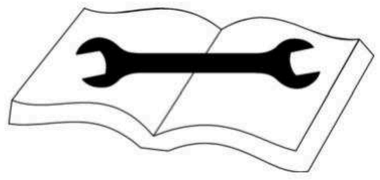
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Fault group	Fault no. (in SERDIA)	Fault locality/ Fault description	SPN	FMI	Cause	Remarks	Help
Hardware inputs/ outputs	60	Digital output 3 (Switch-off solenoid, pin M 2)	SID 51	2	Fault (short circuit / cable break) at digital output.	Driver level is switched off.	Check cable of digital output (cable break or short circuit).
	62	Digital output 6, pin M 7	SID 60	2		Fault message.	
	63	Excess voltage switch-off solenoid	SID 51	6			
	67	Error Hand Setp1	91	11			
	68	Error CAN Setp1	898	2			
Communi-cation	70	CAN-Bus controller	SID 231	12	CAN-controller for CAN-bus is faulty. Fault removal despite re-initialising continuously not possible	Application-dependent.	Check CAN connection, terminating resistor (see Chapter 12.4), Check control unit.
	71	CAN interface SAE J 1939	SID 231	9	Overflow in input buffer or a transmission cannot be placed on the bus.		
	74	Cable break, short circuit or bus-error	SID 231	14			Check CAN connection, cable connection. Check sensor and replace if required.
Memory	76	Parameter programming (write EEPROM)	SID 253	12	Fault in parameter programming in the governor fixed value memory.	Emergency switch-off, engine cannot be started.	Switch ignition off and on again. Check again. If faulty inform DEUTZ Service
	77	Cyclic program test	SID 240	12	Constant monitoring of program memory shows error (so-called "Flash-test").		
	78	Cyclic RAM test	SID 254	2	Constant monitoring of working memory shows error.		Note values of parameters (3895 and 3896). Switch ignition off and on again. Check again. If faulty inform DEUTZ Service.

NOTE: SID is equal to 512. To get SPN #, add 512 + number. For example, SID 254 would be 512+254 or an SPN of 766.

Figure 3-90. EMR2 Fault Codes - Sheet 4 of 5

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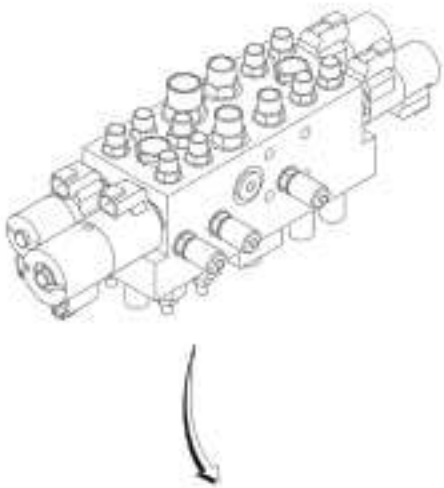


Table 5-35. Jib Control Valve Specifications

#	Item	Torque		Ohms
		ft.lbs.	Nm	
1	Pressure Compensator	25-30	34-41	--
2	Pressure Compensator	25-30	34-41	--
3	Jib Lift Valve	16-20	22-27	9.8
4	Jib Tele Valve	16-20	22-27	7.2
5	Jib Level Valve	16-20	22-27	9.8
6	Jib Swing Valve	16-20	22-27	9.8
7	Inlet Valve	29-37	39-50	7.4
8	Relief Valve	25-30	34-41	--
9	Relief Valve	25-30	34-41	--
10	Relief Valve	25-30	34-41	--
11	Relief Valve	25-30	34-41	--
12	Relief Valve	25-30	34-41	--

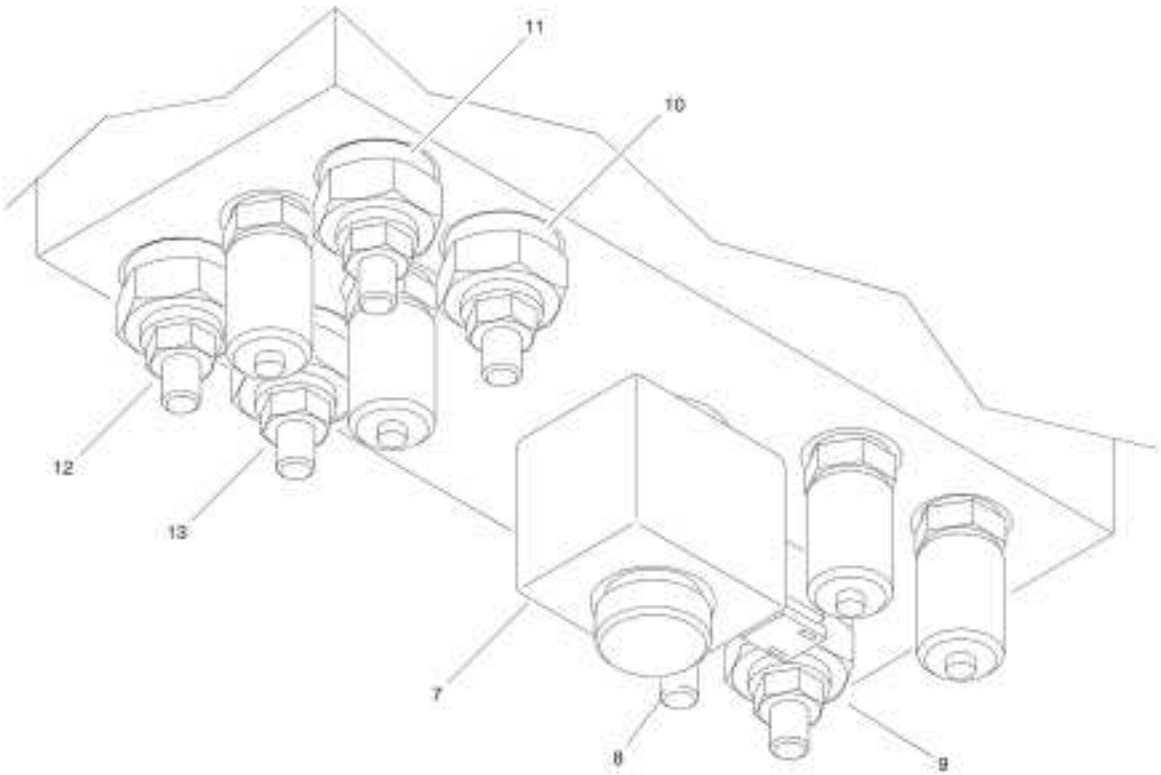


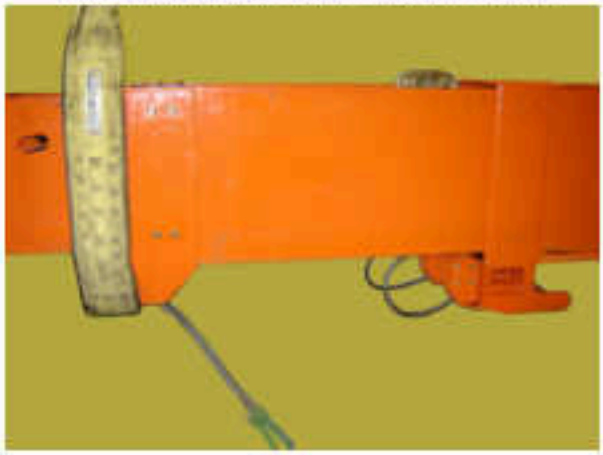
Figure 5-190. Jib Control Valve Torque and Resistance Specifications - Sheet 2 of 2

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EIC					
CONN POS	WIREC OLOR	WIRELABEL	GAUGE	JACKET	TO
1	SHLD	248-38	0.75mm²	SHLD	X1004(6)
2					
3					
4					
5					
6					
7					
8					
9	SHLD	248-53	0.75mm²	SHLD	X1004(3)
10					
11					
12					
13	BLK	248-52	0.75mm²	FLRYW	X1004(2)
14	BLK	248-37	0.75mm²	FLRYW	X1004(1)
15	BLK	248-39	0.75mm²	FLRYW	X1004(4)
16					
17	BLK	148-61	0.75mm²	FLRYW	X1006(6)
18					
19	BLK	248-4	1.5mm²	FLRYW	X1003(10)
20	BLK	248-5	1.5mm²	FLRYW	X1003(9)
21	BLK	248-54	0.75mm²	FLRYW	X1004(5)
22	BLK	248-24	0.75mm²	FLRYW	X1005(1)
23	BLK	248-43	0.75mm²	FLRYW	X1005(9)
24	BLK	248-28	0.75mm²	FLRYW	X1005(5)
25	BLK	248-26	0.75mm²	FLRYW	X1005(3)
26	BLK	248-44	0.75mm²	FLRYW	X1005(10)
27	BLK	248-29	0.75mm²	FLRYW	X1005(6)
28	BLK	248-40	0.75mm²	FLRYW	X1005(8)
29	BLK	248-27	0.75mm²	FLRYW	X1005(4)
30					
31	BLK	248-25	0.75mm²	FLRYW	X1005(2)
32	BLK	248-7	0.75mm²	FLRYW	X1004(7)
33					
34	BLK	148-56	0.75mm²	FLRYW	X1006(4)
35	BLK	248-16	1.5mm²	FLRYW	X1003(2)
36					
37	BLK	248-18	1.5mm²	FLRYW	X1003(4)
38	BLK	248-32	1.5mm²	FLRYW	X1003(5)
39					
40	BLK	248-46	1.5mm²	FLRYW	X1003(7)
41	BLK	248-3	1.5mm²	FLRYW	X1003(8)
42	BLK	248-48	1.5mm²	FLRYW	X1003(3)
43					
44					
45					
46	BLK	148-85	0.75mm²	FLRYW	X1006(10)
47	BLK	248-19	1.5mm²	FLRYW	X1003(11)
48	BLK	248-20	1.5mm²	FLRYW	X1003(12)
49	BLK	148-72	0.75mm²	FLRYW	X1006(8)
50	BLK	148-44	0.75mm²	FLRYW	X1006(3)
51	BLK	148-82	0.75mm²	FLRYW	X1006(9)
52	BLK	148-38	0.75mm²	FLRYW	X1006(2)
53					
54					
55					
56					
57					
58					
59					
60					
61	BLK	248-2	1.5mm²	FLRYW	X1003(6)
62	BLK	248-33	1.5mm²	FLRYW	X1003(1)

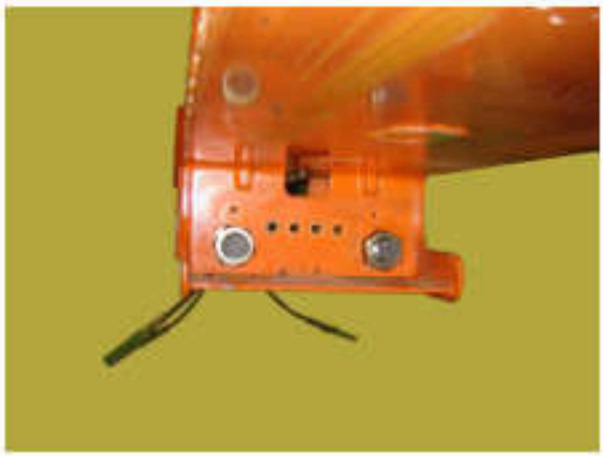
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21. Push the outer mid assembly into the inner mid while pulling the boom cables out the back fo the inner mid section at the same time. Leave 3 to 4 feet of the outer mid section sticking out of the inner mid section.



22. Push the retract cable ends into the mounting receptacles and install the cable sheaves and adjustment nuts.





23. Push the outer mid assembly almost completely into the inner mid boom section.



24. Install the cable retainer blocks over the fly boom retract cables and insert the fly boom extend cable into the mounting receptacles.





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25. Connect the hoses to the main valve and pressure filter as tagged during removal.



26. Reconnect the negative battery terminal.



27. Using auxiliary power, lower the boom to horizontal.

28. Attach an adequate lifting device to the jib and position it in front of the boom.



29. Place something under the front of the jib that will allow it to slide or move along the ground easily. Attach a lifting device to the rear of the jib, allowing the front to pivot on the ground.



30. Lift the jib into position on the boom fly section and install the jib pivot pin. Apply JLG Threadlocker PN 0100019 to the bolt and secure the pivot pin in place with the keeper pin and bolt. Torque the bolt to 165 ft.lbs. (224 Nm).





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