Service Manual

Models
G6-42A, G9-43A
& G10-43A

G6-42A
Before S/N 0160048658
G9-43A & G10-43A
Before S/N 0160048671
including 0160048773

31200151

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An Oshkosh Corporation Company

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SECTION CONTENTS

Section	Subject	Page
Section 1		
Safety Practices		**1-1**
1.1	Introduction	1-2
1.2	Disclaimer	1-2
1.3	Operation & Safety Manual	1-2
1.4	Do Not Operate Tags	1-2
1.5	Safety Information	1-2
1.6	Safety Instructions	1-3
1.7	Safety Decals	1-4
Section 2		
General Information and Specifications		**2-1**
2.1	Replacement Parts and Warranty Information	2-2
2.2	Torque Charts	2-3
2.3	Specifications	2-11
2.4	Fluid and Lubricant Capacities	2-15
2.5	Service and Maintenance Schedule	2-18
2.6	Lubrication Schedule	2-21
Section 3		
Boom		**3-1**
3.1	Boom System Component Terminology	3-3
3.2	Boom System - Three Section	3-4
3.3	Boom Assembly Maintenance	3-4
3.4	Complete Boom Removal/Installation	3-5
3.5	Boom Section Removal/Installation	3-6
3.6	Extend/Retract Chain Removal/Installation	3-14
3.7	Push Beam - Extend/Retract Cylinder Removal/Installation	3-16
3.8	Boom Adjustments	3-20
3.9	Quick Switch Assembly	3-25
3.10	Boom Head - Mounted Winch	3-26
3.11	Boom Wear Pads	3-26
3.12	Boom Extend and Retract Chains	3-27
3.13	Forks	3-30
3.14	Emergency Boom Lowering Procedure	3-31
3.15	Troubleshooting	3-33
3.16	Push Beam Temporary Brackets	3-36
Section 4		
Cab and Covers		**4-1**
4.1	Operator Cab and Covers Component Terminology	4-2
4.2	Operator Cab	4-5
4.3	Cab Components	4-5
4.4	Cab Removal	4-11
4.5	Cab Installation	4-12

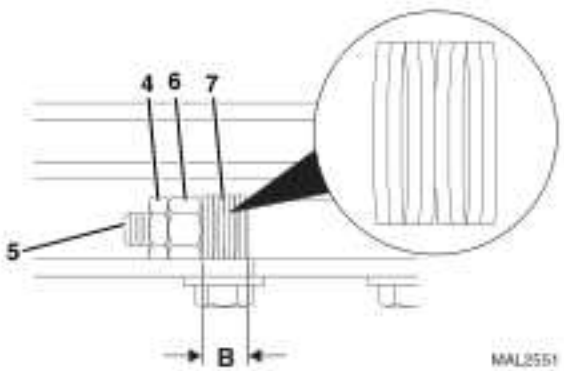
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Section	Subject	Page
Section 5		
Axles, Drive Shafts, Wheels and Tires		**5-1**
5.1	Axle, Drive Shaft and Wheel Component Terminology	5-2
5.2	General Information	5-3
5.3	Axle Assemblies	5-3
5.4	Drive Shafts	5-10
5.5	Wheels and Tires	5-11
5.6	Brakes	5-12
5.7	Towing a Disabled machine	5-12
Section 6		
Transmission		**6-1**
6.1	Transmission Assembly Component Terminology	6-2
6.2	Transmission Serial Number	6-4
6.3	Transmission Specifications and Maintenance Information	6-4
6.4	Transmission Replacement	6-4
6.5	Engine Drive Plate	6-7
6.6	Transmission Cooler Thermal Bypass Valve	6-8
6.7	Troubleshooting	6-10
Section 7		
Engine		**7-1**
7.1	Introduction - John Deere	7-2
7.2	Introduction - Perkins	7-4
7.3	Introduction - Cummins	7-6
7.4	Engine Cooling System	7-8
7.5	Engine Electrical System	7-10
7.6	Fuel System	7-10
7.7	Engine Exhaust System	7-12
7.8	Air Cleaner Assembly	7-13
7.9	Engine Replacement	7-14
7.10	Troubleshooting	7-17
Section 8		
Hydraulic System		**8-1**
8.1	Hydraulic Component Terminology	8-2
8.2	Safety Information	8-3
8.3	Hydraulic Pressure Diagnosis	8-4
8.4	Hydraulic Circuits	8-5
8.5	Hydraulic Reservoir	8-17
8.6	Implement Pump	8-18
8.7	Control Valves	8-19
8.8	Hydraulic Cylinders	8-25

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Section	Subject	Page
Section 9		
Electrical System		**9-1**
9.1	Electrical Component Terminology	9-3
9.2	Specifications	9-5
9.3	Safety Information	9-5
9.4	Fuses and Relays	9-5
9.5	Electrical System Schematics	9-10
9.6	Circuit Breakdowns	9-38
9.7	Engine Start Circuit	9-45
9.8	Charging Circuit	9-46
9.9	Window Wiper/Washer Windshield Wiper Motor	9-47
9.10	Cab Heater and Fan	9-48
9.11	Solenoids and Senders	9-49
9.12	Display Monitor and Gauges	9-55
9.13	Dash Switches	9-56
9.14	Variable Displacement Pump Control (G9-43A/G10-43A S/N 0160040675 and After including 0160040468 & 016040672)	9-58
9.15	Hand Held Analyzer(G9-43A/G10-43A S/N 0160040675 and After including 0160040468 & 016040672)	9-60
9.16	Joystick Fault Codes (G9-43A/G10-43A S/N 0160040675 and After including 0160040468 & 016040672)	9-62
9.17	Engine Indicator Lamps - Perkins	9-67
9.18	SAE Diagnostic Trouble Codes and Fault Codes - Cummins	9-68

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9. Tighten the retract chain adjustment nut (**6**) until the belleville washers (**7**) become fully compressed to dimension "B" 0.712-0.725 in (18,1-18,4 mm). Do Not Overtighten.
10. Install and temporarily tighten the retract chain lock nut (**4**).
11. Start the machine and at low idle, fully extend and retract the boom three times. Verify boom is fully retracted and level. Shut machine Off.
12. Recheck the Belleville washers (**7**) to verify they are fully compressed to dimension "B" 0.712-0.725 in (18,1-18,4 mm). If required, re-tighten the retract chain adjustment nut (**6**) until dimension "B" is obtained.

Note: *If dimension "B" requires adjustment, continue to step 13. If dimension "B" does NOT require adjustment, continue to step 14.*

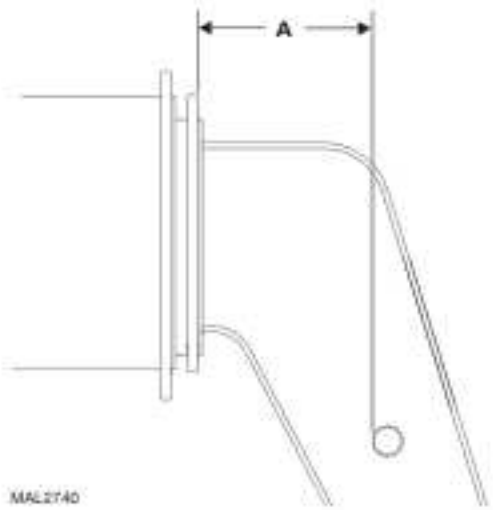
13. Start the machine and at low idle, fully extend and retract the boom three times. Verify boom is fully retracted and level. Shut machine Off.
14. Verify dimension "A" 11.500-11.812 in (292,1- 300,0 mm). Verify dimension "C" is not less than 2.850 in (72,4 mm).

Note: *Re-adjust boom if dimensions "A" & "C" are not met. Contact the local JLG Distributor if the procedure cannot be obtained.*

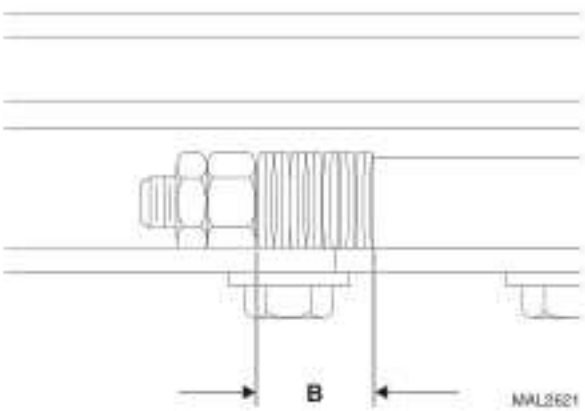
15. Loosen the retract chain lock nut and the extend chain lock nut and apply Loctite® 242™.
16. Torque each retract chain lock nut (**4**) and extend chain lock nut (**1**) without adding any additional spring load. Torque each lock nut to 100 lb-ft (135 Nm).

3.8.3 Chain Tension Inspection— G9-43A/G10-43A

1. Park machine on level ground. Place transmission control lever in (N) NEUTRAL, engage parking brake and level boom.
2. Place a Do Not Operate Tag on both ignition key switch and steering wheel.
3. Extend the boom 4-5 ft (1,2-1,5 m), then fully retract the boom. Verify boom is level.
4. Measure the following three dimensions; A, B & C.



5. At the boom head, verify dimension "A" is between 17.000-17.312 in (421,8-439,7 mm).



6. At the bottom front of the boom, verify dimension "B" is 1.500-1.512 in (38,1-38,4 mm) of the washer stack on the retract chain clevis.

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8.3 HYDRAULIC PRESSURE DIAGNOSIS

JLG Parts Department has a kit available to use for hydraulic system maintenance and troubleshooting: the JLG Pressure Test Kit. The kit is contained in a durable polyethylene carrying case for demanding field service conditions.

Pressure Test Kit

The hydraulic pressure test kit is used to pressure test the various hydraulic components in the hydraulic system. The kit includes:

- Gauges for testing high and low pressure circuits
- Fittings, couplers and hoses
- Durable carrying case



Contact your local authorized distributor for ordering information.

Part Number	Description	Approximate Weight	Price and Availability
70000652	Hydraulic Pressure Test Kit	10 lbs.	Consult Factory
70000101	Digital Hydraulic Pressure Test Kit	7 lbs.	Consult Factory

8.3.1 Pressure Checks and Adjustments

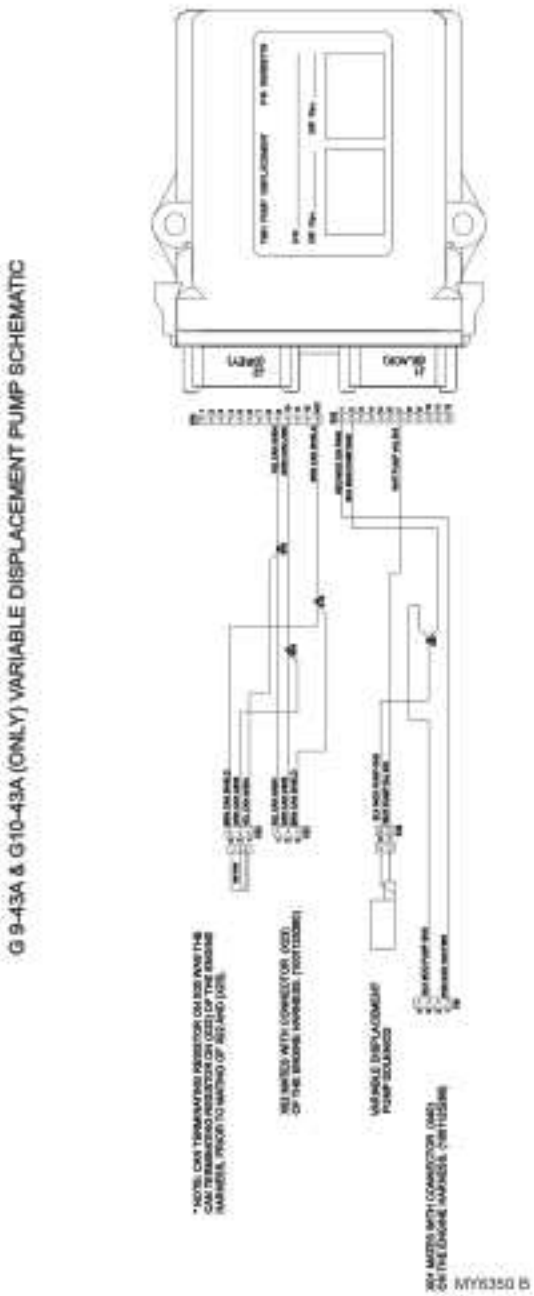
When diagnosing trouble in the hydraulic system, use the hydraulic testing information in Section 8.4.1, "Hydraulic Pressures."

In general, follow the steps below whenever conducting pressure checks and performing adjustments:

1. Park the machine on a firm, level surface. Engage the park brake, place the travel select lever in (N) NEUTRAL, level the boom and turn the engine OFF.
2. The test port is located at the top right corner of the main control valve. Install a pressure gauge capable of measuring at least 10% more pressure than that which the circuit being checked operates under.
3. Start the engine. Operate machine functions several times to allow hydraulic oil to reach operating temperature. The hydraulic oil temperature should be between 100-120°F (38-49° C). If a temperature gauge or thermometer is unavailable, the hydraulic oil reservoir should be warm to the touch.
4. Refer to Section 8.4.1, "Hydraulic Pressures," for testing procedures.
5. Fully depress the accelerator pedal if required. Place and hold the joystick in the position needed to operate the particular machine function being checked. Continue holding the joystick in position until pressure readings are taken.
6. Check the pressure gauge reading. It should read as specified in the Pressure Readings column of the charts found in Section 8.4.1, "Hydraulic Pressures." If the reading is not as specified, turn the engine OFF and check other components in the system. Verify that all related hydraulic components and electrical switches, sensors, solenoids, etc. are operating correctly.
7. Adjust the relief valve by turning the adjustment screw clockwise will increase the pressure; turning the screw counterclockwise will decrease the pressure.
8. Start the engine and check the pressure again. Turn the engine OFF. If there is pressure reading in the gauge, bleed it off then disconnect or remove the pressure gauge from the machine.

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G 9-43A & G10-43A (ONLY) VARIABLE DISPLACEMENT PUMP SCHEMATIC



MY6350 B

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