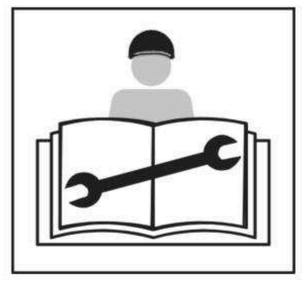
Service Manual

Models
G5-19A
&
G6-23A

P/N - 31200193

Revised
November 17, 2006

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Safety Practices

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2.4 FLUIDS, LUBRICANTS AND CAPACITIES

Engine Crankcase Oil	
Capacity w/Filter Change	9.6 quarts (9,0 liters)
Filter Capacity	1.05 quarts (1,0 liter)
Oil Type	15W-40 CE
Fuel Filters	
Primary Fuel Filter Capacity	Approx. 0.26 quarts (1,0 liter)
Fuel Filter Capacity	0.16 quarts (0,6 liters)
Fuel Tank	
Capacity	G5-19A- 25 gallons (95 liters) G6-23A- 27 gallons (102 liters)
Type of Fuel	U.S.A. #2 Diesel
Cooling System	
System Capacity w/o Heater	10.6 quarts (10 liters)
Type of Fluid	50/50 mix of ethylene glycol & water
Axles	
Differential Housing Capacity - Front	G5-19A- 8.4 quarts (7,9 liters) G6-23A - 8.5 quarts (8 liters)
Differential Housing Capacity - Rear	G5-19A- 5.3 quarts (5 liters) G6-23A - 8.3 quarts (7,8 liters)
Wheel End Capacity	G5-19A- 0.84 quarts (0,8 liters) G6-23A - 0.7 quarts (0,65 liters)
Type of Fluid	Mobilube HDLS 80W-90
Brakes	
Master Cylinder Capacity	0.7 quarts (0,7 liters)
Type of Fluid	ATF
Hydraulic System	
System Capacity	G5-19A- 28 gallons (106 liters) G6-23A- 35 gallons (133 liters)
Reservoir Capacity to FULL Mark	G5-19A- 17 gallons (65 liters) G6-23A- 23 gallons (87 liters)
Type of Fluid	Mobilfluid® 424 Tractor Hydraulic Fluid (ISO 46)

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3.6 TROUBLESHOOTING

This section provides an easy reference guide covering the most common problems that occur during operation of the boom.

Boom Troubleshooting

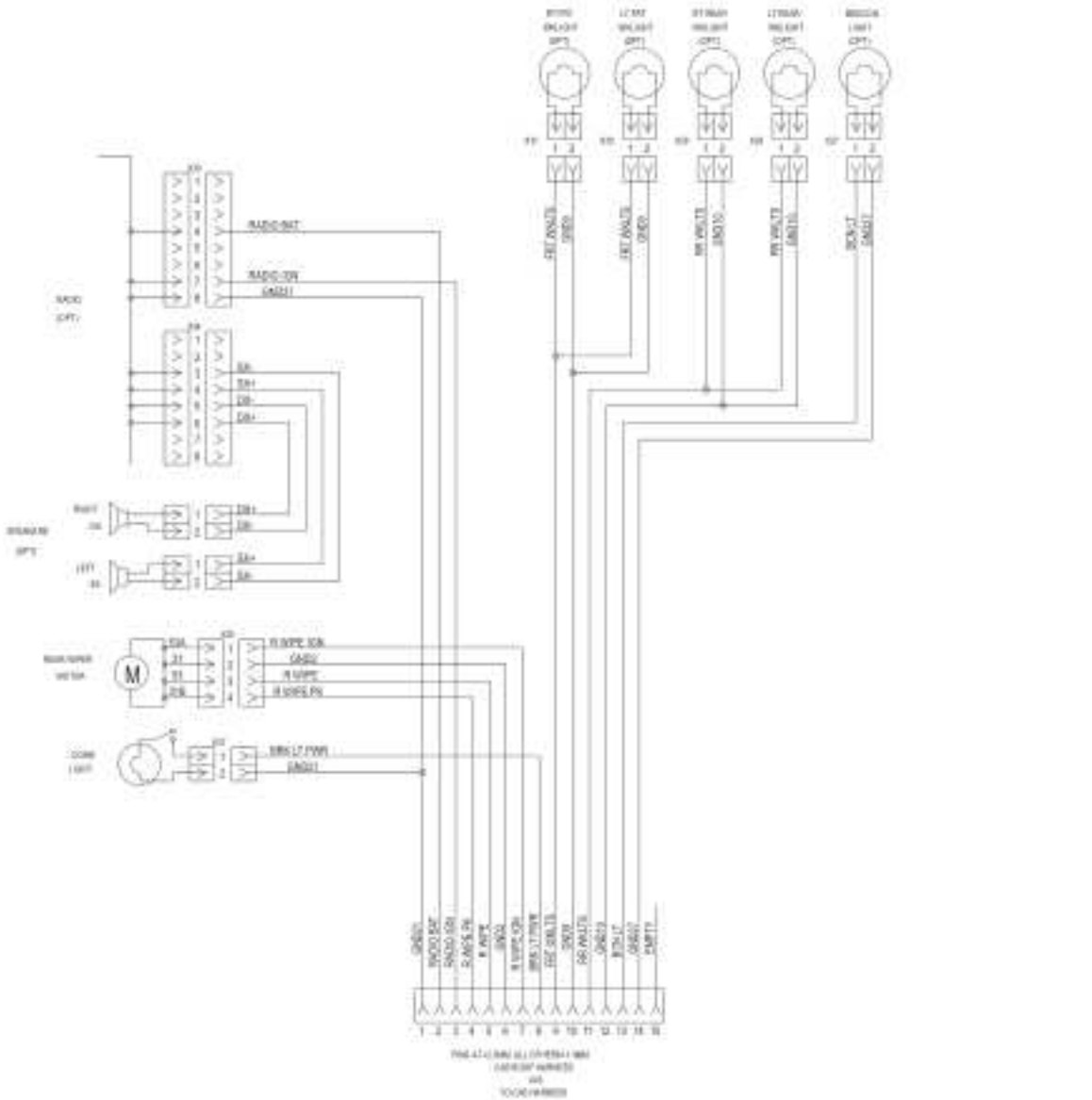
Problem	Cause	Remedy
1. Boom will not extend or retract.	1. Broken hydraulic hose(s) or tube(s) and/or connections leaking.	1. Locate break, replace hose(s) or tube(s), tighten connections.
	2. Extend/Retract hydraulic system not operating properly.	2. Refer to Section 8, "Hydraulic System."
	3. Faulty extend/retract cylinder.	3. Repair cylinder (Refer to Section 8.11.4, "Cylinder Inspection.")
2. Boom will not fully extend.	1. Extend/retract hydraulic system not operating properly.	1. Refer to Section 8, "Hydraulic System."
3. Boom shifts to right or left when extending.	1. Boom side wear pads improperly shimmed or worn.	1. Shim wear pads to correct gap. Replace wear pads as needed. Refer to Section 3.4.2, "Boom Wear Pad Replacement."
4. Excessive pivot pin noise and/or wear.	1. Insufficient lubrication.	1. Lubricate at regular intervals. (Refer to Section 2.6, "Lubrication Schedules.") Replace worn pins as needed.
	2. Worn bushing(s).	2. Replace bushing(s) and lubricate at regular intervals (Refer to Section 2.6, "Lubrication Schedules.")
5. Boom will not raise or lower.	1. Broken hydraulic hoses or tubes and/or connection leaks.	1. Locate break, replace hose(s) or tube(s), tighten connections.
	2. Lift/lower hydraulic system not operating properly.	2. Refer to Section 8, "Hydraulic System."
	3. Faulty Lift cylinders.	3. Repair cylinder. (Refer to Section 8.11.4, "Cylinder Inspection.")
	4. Seized boom pivot pin bushing.	4. Replace bushing.

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9.4 ELECTRICAL SYSTEM SCHEMATICS

9.4.1 Cab Roof Schematic

Note: *For more detailed schematics, contact your local JLG distributor.*



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