An Oshkosh Corporation Company

Service and Maintenance Manual

Models

3369LE

4069LE

M3369

M4069

S/N-0200230092 to Present
S/N-M200000100 to Present

3121639

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ANSI

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1.3 CAPACITIES

Table 1-6. Capacities

Description	3369LE/M3369	4069LE/M4069
Hydraulic Tank	8.25 gal (31.2 liters) 5.4 gal (20.4 liters) @ full mark	
Hydraulic System	approx. 8.5 gal (32.1 liters)	
Fuel Tank - (M Models only)	Approx. 0.9 gal (3.3 l)	
Generator Crankcase	1.37 qts (1.3 l)	

1.4 PRESSURE SETTINGS

Table 1-7. Pressure Settings

Description	3369LE/M3369	4069LE/M4069
Main Relief (±50 psi)	3000 psi (207 bar)	
Steer Relief	2500 psi (172 bar)	
Lift Relief	2600 psi (179 bar)	2800 psi (193 bar)

1.5 TORQUE SPECIFICATIONS

Table 1-8. Torque Specifications

DESCRIPTION	TORQUE VALUE (DRY)	INTERVAL HOURS
Torque Hub	240 ft lbs (336 Nm)	500
Wheel Nuts	170 ft lbs (238 Nm)	50
Fixed Axle Bolts	220 ft lbs (308 Nm)	500
Drive Motor	35 ft lbs (49 Nm)	N/A
Pump Motor Terminals	12-14 ft lbs (14-19 Nm)	N/A

NOTE: *When maintenance becomes necessary or a fastener has loosened, refer to Section 1.11, Torque Charts to determine proper torque value.*

1.6 CYLINDER SPECIFICATIONS

Table 1-9. Cylinder Specifications

DESCRIPTION	BORE	STROKE	ROD DIA.
Lift Cylinder (M3369/3369LE)	4.00 in (10.16 cm)	63.69 in (161.77 cm)	2.75 in (6.98 cm)
Upper Lift Cylinder (M4069/4069LE)	3.00 in (7.62 cm)	58.13 in (147.65 cm)	2.75 in (6.98 cm)
Lower Lift Cylinder (M4069/4069LE)	4.00 in (10.16 cm)	58.13 in (147.65 cm)	2.25 in (5.71 cm)
Steer Cylinder	2.00 in (5.08 cm)	6.5 in (16.51 cm)	1.125 in (2.86 cm)

1.7 MAJOR COMPONENT WEIGHTS

Table 1-10. Major Component Weights

Description	3369LE/M3369	4069LE/M4069
Platform	780 lbs (354 kg)	
Platform Extension	360 lbs (163 kg)	
Arm Assembly (Includes Lift Cylinders)	3200 lbs (1451 kg)	3900 lbs (1769 kg)
Chassis (Includes Battery Box and Foam filled Tires)	5420 lbs (2458 kg)	5517 lbs (2502 kg)
Foam Filled Tire and Wheel Assembly (each)	180 lb. (81.6 kg)	

1.8 CRITICAL STABILITY WEIGHTS

Table 1-11. Critical Stability Weights

Description	3369LE/M3369	4069LE/M4069
Platform	780 lbs (354 kg)	
Platform Extension	360 lbs (163 kg)	
Foam Filled Tires	207 lbs (94 kg)	
Battery (Each)	122 lbs (55 kg)	

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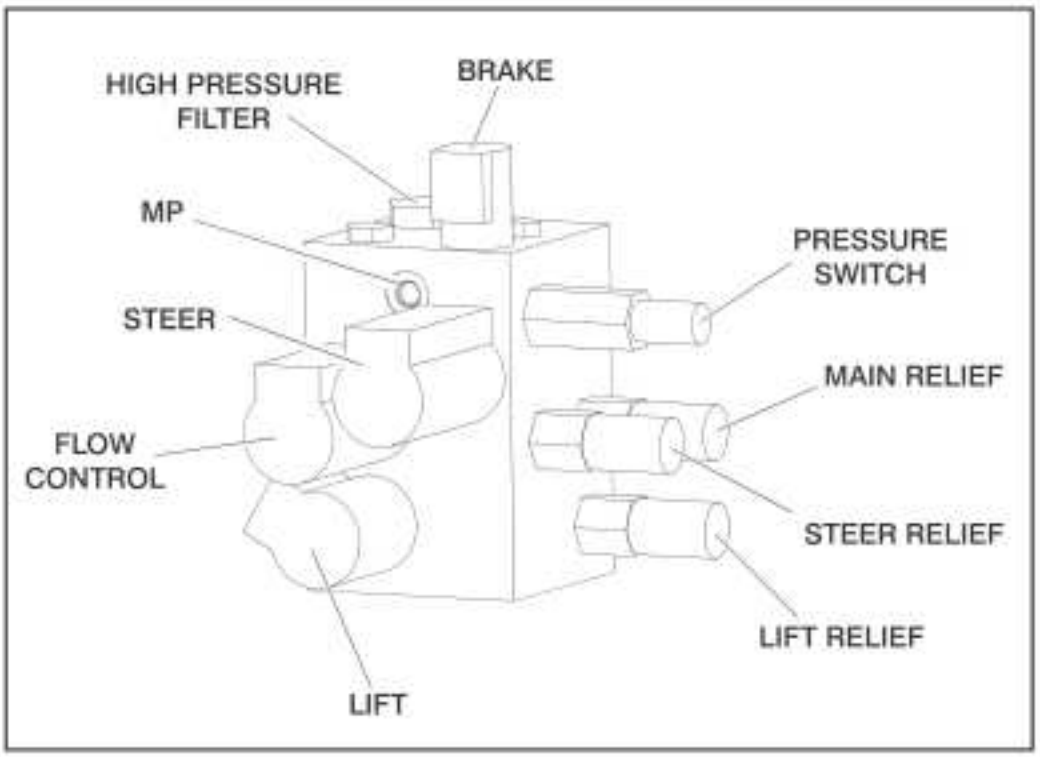


Figure 4-16. Control Valve

4.17 DRIVE TORQUE HUB

Disassembly

1. Loosen all cover bolts and drain oil from unit.
2. Remove the cover bolts and lift off input cover. Remove and discard o-ring from counterbore of input cover.
3. Remove sun gear and thrust washer.
4. Lift out the carrier and thrust washer.
5. Remove input spacer.
6. Lift out internal gear and thrust washer.
7. While wearing eye protection, remove the retaining ring from the output shaft and discard.
8. Remove thrust washer from the output shaft.
9. The output shaft may now be pressed out of the housing.
10. The bearing cups will remain in hub as will the inner bearing cone. The outer bearing cone will remain on the output shaft. The lip seal will be automatically removed during this procedure.

NOTE: *If bearing replacement is necessary, the bearing cups can be removed with a slide hammer puller or driven out with a punch.*

11. To remove the cluster gears from the carrier, drive the roll pin into the planet shaft. The planet shaft may now be tapped out of the carrier. After planet shaft has been removed, the roll pin can be driven out The cluster gear can now be removed from the carrier). The tanged thrust washer will be removed from the cluster gear.
12. The needle bearings and thrust spacer are now removed from cluster gear.

NOTE: *When rebuilding or repairing the unit, the retaining ring, o-rings, and seal should always be replaced.*

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6.5 ELECTRICAL SCHEMATICS

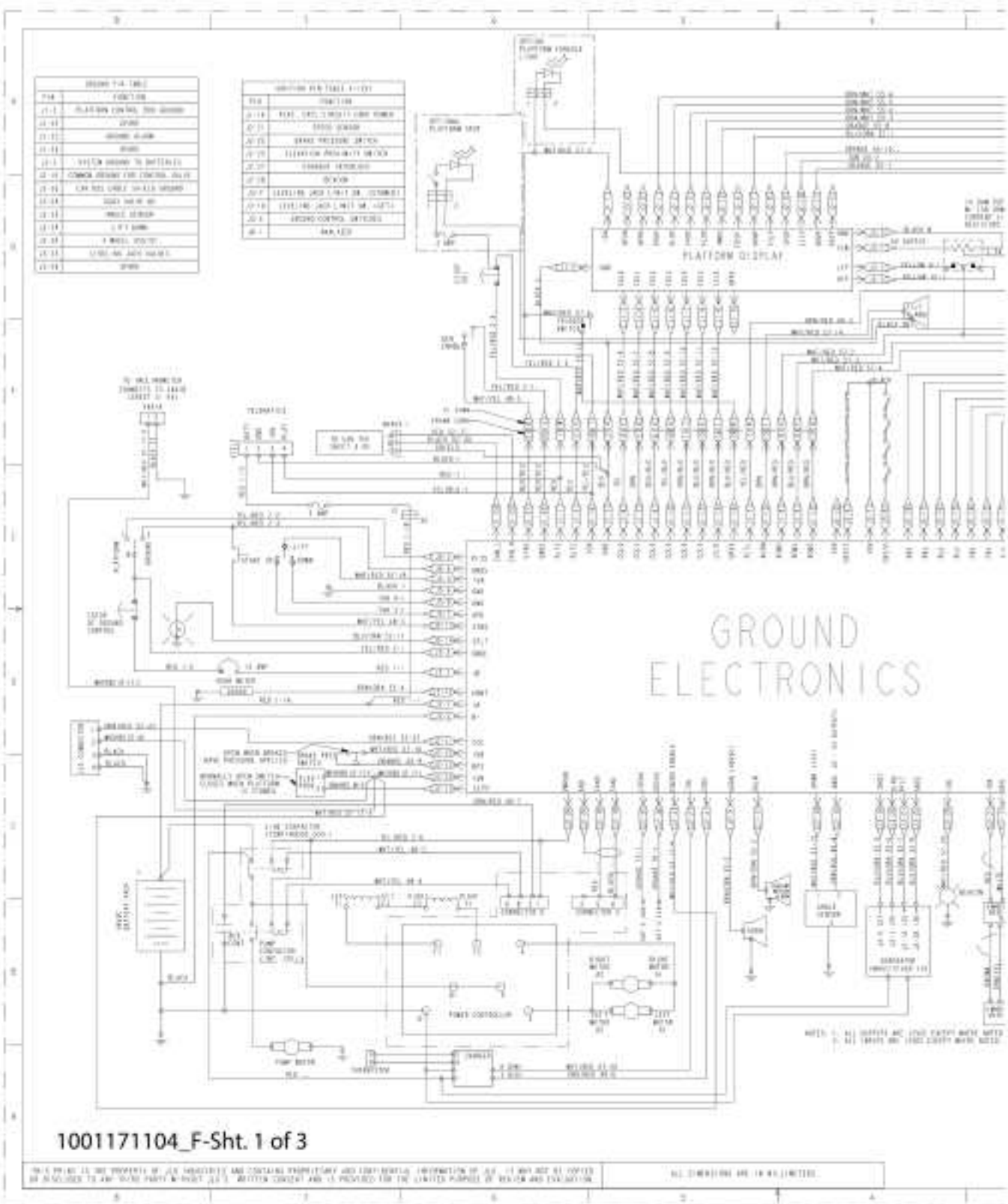


Figure 6-22. Electrical Schematic (All except AUS)

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4. Cut and remove the Wire Ties holding the Harness label to the harness. Next, remove the Wire Ties so that the cable sleeve can be moved, exposing the conductors of the harness.



5. Cut wire 106 going to the Engine/Generator Controller after the existing connection point and install the conductors that lead to the new in-line fuse holder. Use insulated butt splice connectors for these conductors.





6. Re-install the harness with the new fuse in place.



7. Reconnect the lift and APU start battery. The APU is now ready for use.

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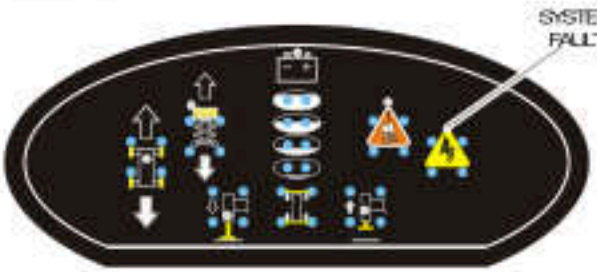
NOTE: *Refer to Table 5-3, Machine Model Adjustment, and Table 5-4, Machine Configuration Programming Information for the default settings.*

Password 33271 will give you access to level 1, which will permit you to change all machine personality and/or machine setup settings.

⚠ WARNING

CHANGING THESE SETTINGS MAY ADVERSELY AFFECT THE PERFORMANCE OF YOUR MACHINE.

The flash code is indicated on the face of the platform control box as shown:



NOTE: *For machines with software prior to P1.0, flash codes are also displayed on the handheld analyzer. For descriptions see, Table 5-1, Flash Codes/DTC's.*

NOTICE

IT IS A GOOD PRACTICE TO AVOID PRESSURE-WASHING ELECTRICAL/ELECTRONIC COMPONENTS. SHOULD PRESSURE-WASHING BE UTILIZED TO WASH AREAS CONTAINING ELECTRICAL/ELECTRONIC COMPONENTS, JLG INDUSTRIES, INC. RECOMMENDS A MAXIMUM PRESSURE OF 750 PSI (52 BAR) AT A MINIMUM DISTANCE OF 12 INCHES (30.5 CM) AWAY FROM THESE COMPONENTS. IF ELECTRICAL/ELECTRONIC COMPONENTS ARE SPRAYED, SPRAYING MUST NOT BE DIRECT AND BE FOR BRIEF TIME PERIODS TO AVOID HEAVY SATURATION.

5.2 PC BOARDS



Figure 5-2. PC Boards

NOTE: *Figure 5-2., PC Boards, is shown for part distinguishing purposes. PC Board (p/n 1001099428) is used on machines with Software P1.0 and higher.*

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