An Oshkosh Corporation Company

Service and Maintenance Manual

Models

3369LE
4069LE
M3369
M4069

PVC 1910

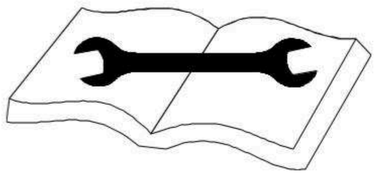
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SECTION 1. SPECIFICATIONS

1.1 SPECIFICATIONS

Description	3369LE/M3369			4069LE/M4069		
	ANSI	CE/AUS	CSA	ANSI	CE/AUS	CSA
Max. Number of Persons	2			2		
Max. Workload (Capacity) Extension Only:	**ANSI/CSA/Brazil:** 1000 lb (454kg) **CE/AUS:** 1000 lb (450kg) **ANSI/CSA/Brazil:** 250 lb (113kg) **CE/AUS:** 250 lb (120kg)			**ANSI/CSA/Brazil:** 800 lb (363kg) **CE/AUS:** 800 lb (360kg) **ANSI/CSA/Brazil:** 250 lb (113kg) **CE/AUS:** 250 lb (120kg)		
Max. Platform Height	33 ft (10.1m)			40 ft (12.2 m)		
Max. Gradeability	35%			35%		
Max. Slope (Left - Right)	5° Up to 25 ft (7.6 m) 4° Up to 30 ft (9.1 m) 3° Up to 33 ft (10 m)		3° Up to 33 ft (10 m)	5° Up to 30 ft (9.1 m) 4° Up to 36 ft (11 m) 3° Up to 40 ft (12.2 m)		3° Up to 40 ft (12.2 m)
Max. Slope (Front - Back)	5° Up to 33 ft (10 m)		3° Up to 33 ft (10 m)	5° Up to 40 ft (12.2 m)		3° Up to 40 ft (12.2 m)
Max. Slope (Left - Right) (optional for CE machines with 37 mph (16.7 m/s) windspeed rating only)	NA	4° Up to 25 ft (7.6 m) 2° Up to 33 ft (10 m)	NA	NA	NA	NA
Max. Slope (Front - Back) (optional for CE machines with 37 mph (16.7 m/s) windspeed rating only)	NA	5° Up to 25 ft (7.6 m) 4° Up to 33 ft (10 m)	NA	NA	NA	NA
Max. Tire Load	3200 lb (1452 kg)			3700 lb (1680 kg)		
Max. Ground Bearing Pressure	57 psi (4 kg/cm^2)			61 psi (4.3 kg/cm^2)		
Max. Allowable Wind Speed (Standard rating)	28 mph (12.5 m/s)			28 mph (12.5 m/s)		
Maximum Horizontal Manual Side Force	667 N (150 lb force)	400 N (90 lb force)		534 N (120 lb force)	400 N (90 lb force)	
Max. Allowable Wind Speed (16.7 m/s machines only) (Optional rating for CE Specification only)	NA	16.7m/s (37 mph)	NA	NA	NA	NA
Turning Radius: Inside Outside	7.5 ft (2.3 m) 16 ft (4.9 m)			7.5 ft (2.3 m) 16 ft (4.9 m)		
Wheelbase	91.5 in (2.3 m)			91.5 in (2.3 m)		
Gross Machine Weight (Approximate)	9,760 lb (4,427 kg)	10,060 lb (4563 kg)		10,560 lb (4,790 kg)	11,500 lb (5216.3 kg)	
Maximum Drive Speed	3 mph (4.8 kmh)			3 mph (4.8 kmh)		

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Excessive Battery Watering Requirements or Strong Sulphur (Rotten Egg) Smell

These symptoms indicate over-charging or high battery temperature. These symptoms are unlikely to be caused by too high a charge current since the maximum charge current of the charger will be small compared to even a moderately sized battery pack. The most likely cause for this problem is incorrect charge algorithm setting and/or high ambient temperatures.

1. Confirm that the battery pack is not too small - usually > 50Ah.
2. Confirm that the nominal battery voltage matches the charger output voltage.
3. Confirm the correct battery charge algorithm. If the battery pack is new, the algorithm will need to be changed if the pack is not the same as the old one. for instructions on how to determine and change the battery charge algorithm see the following sub-section.
4. If the output voltage of the charger seems excessive, return the charger for service. Contact JLG to get the expected battery voltage settings for the charger in question. Be sure to have the charger's serial number and charge algorithm setting available when calling.

Checking - Changing the Battery Charger Algorithm

The charger is pre-loaded with programming algorithms for the specific batteries detailed in Table 3-3, Battery Algorithms. Contact JLG if your specific battery model is not listed.
Each time AC power is applied with the battery pack not connected, the charger enters an algorithm select/display mode for approximately 11 seconds. During this time, the current Algorithm # is indicated on the Yellow Charging LED. A single digit Algorithm # is indicated by the number of blinks separated by a pause. A two digit Algorithm # is indicated by the number of blinks for the first digit followed by a short pause, then the number of blinks for the second digit followed by a longer pause.

To check / change the charging algorithm:

1. Disconnect the charger positive connector from the battery pack. Apply AC power and after the LED test, the Algorithm # will display for 11 seconds.
2. To change the algorithm, touch the connector to the battery's positive terminal for 3 seconds during the 11 second display period and then remove. The Algorithm # will advance after 3 seconds. Repeat this procedure until the desired Algorithm # is displayed. A 30 second time-out is extended for every increment. Incrementing beyond the last Algorithm will recycle back to the first Algorithm. When the desired Algorithm is displayed, touch the charger connector to the battery positive terminal until the output relay makes a clicking noise (approx. 10 seconds). The algorithm is now in the permanent memory.
3. Remove the AC power from the charger and reconnect the charger's positive connector to the battery.

NOTE: *It is recommended to check a newly changed algorithm by repeating the above steps 1 and 3.*

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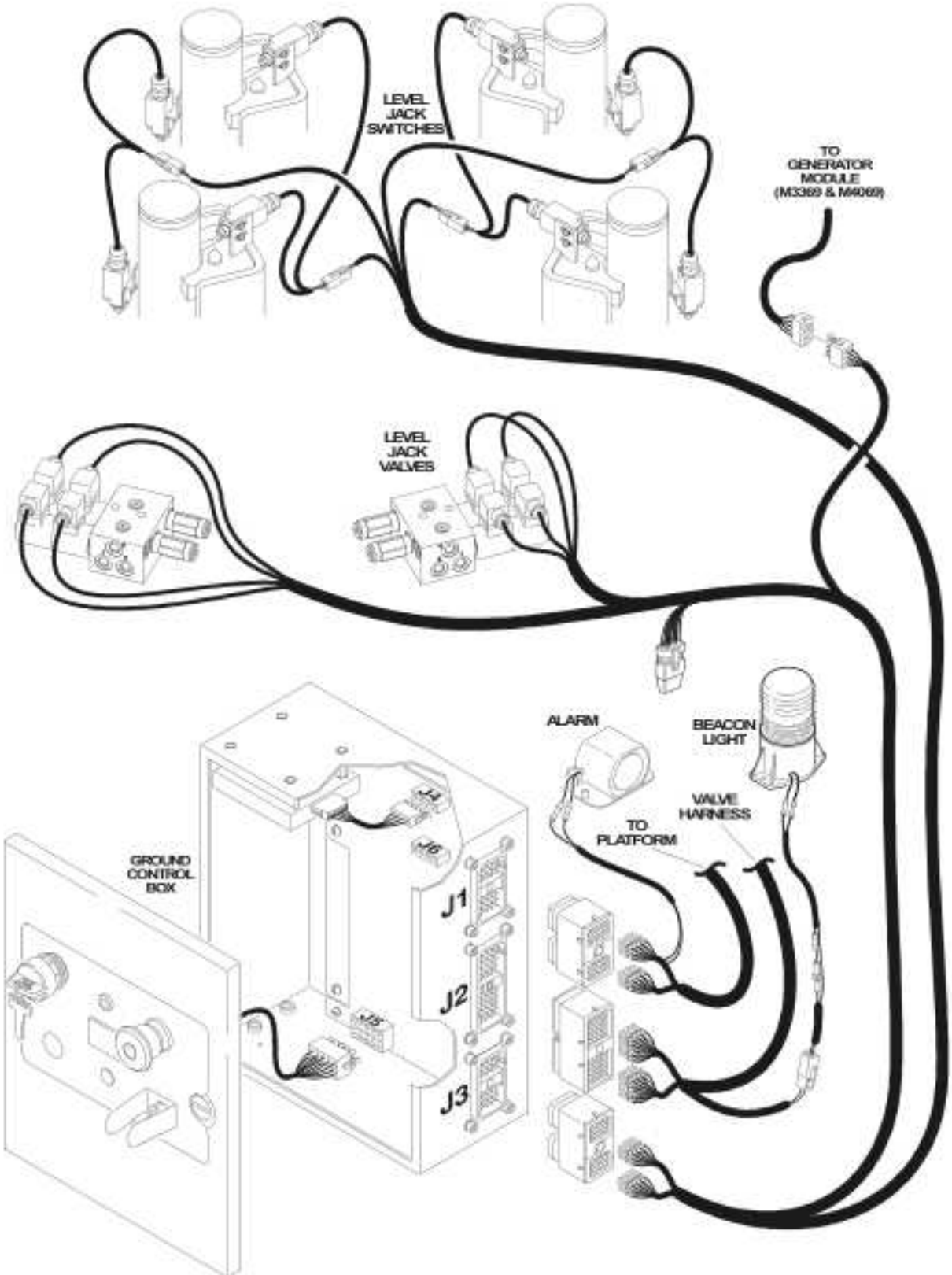


Figure 6-20. Electrical Components Installation - (Sheet 3 of 4)

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SAE Fastener Torque Chart (Continued)

Values for Zinc Yellow Chromate Fasteners (Ref 4150707)										
SAE GRADE 8 (HEX HD) BOLTS & GRADE 8 NUTS*										
Size	TPI	Bolt Dia	Tensile Stress Area	Clamp Load	Torque (Dry or Loctite® 263) K=0.20		Torque (Loctite® 242™ or 271™ or Vibra-TITE™ 111 or 140) K=0.18		Torque (Loctite® 262™ or Vibra-TITE™ 131) K=0.15	
		In	Sq In	LB	IN-LB	[N.m]	IN-LB	[N.m]	IN-LB	[N.m]
4	40	0.1120	0.00604							
	48	0.1120	0.00661							
6	32	0.1380	0.00909							
	40	0.1380	0.01015							
8	32	0.1640	0.01400							
	36	0.1640	0.01474	1320	43	5				
10	24	0.1900	0.01750	1580	60	7				
	32	0.1900	0.02000	1800	68	8				
1/4	20	0.2500	0.0318	2860	143	16	129	15		
	28	0.2500	0.0364	3280	164	19	148	17		
		In	Sq In	LB	FT-LB	[N.m]	FT-LB	[N.m]	FT-LB	[N.m]
5/16	18	0.3125	0.0524	4720	25	35	20	25	20	25
	24	0.3125	0.0580	5220	25	35	25	35	20	25
3/8	16	0.3750	0.0775	7000	45	60	40	55	35	50
	24	0.3750	0.0878	7900	50	70	45	60	35	50
7/16	14	0.4375	0.1063	9550	70	95	65	90	50	70
	20	0.4375	0.1187	10700	80	110	70	95	60	80
1/2	13	0.5000	0.1419	12750	105	145	95	130	80	110
	20	0.5000	0.1599	14400	120	165	110	150	90	120
9/16	12	0.5625	0.1820	16400	155	210	140	190	115	155
	18	0.5625	0.2030	18250	170	230	155	210	130	175
5/8	11	0.6250	0.2260	20350	210	285	190	260	160	220
	18	0.6250	0.2560	23000	240	325	215	290	180	245
3/4	10	0.7500	0.3340	30100	375	510	340	460	280	380
	16	0.7500	0.3730	33600	420	570	380	515	315	430
7/8	9	0.8750	0.4620	41600	605	825	545	740	455	620
	14	0.8750	0.5090	45800	670	910	600	815	500	680
1	8	1.0000	0.6060	51500	860	1170	770	1045	645	875
	12	1.0000	0.6630	59700	995	1355	895	1215	745	1015
1 1/8	7	1.1250	0.7630	68700	1290	1755	1160	1580	965	1310
	12	1.1250	0.8560	77000	1445	1965	1300	1770	1085	1475
1 1/4	7	1.2500	0.9690	87200	1815	2470	1635	2225	1365	1855
	12	1.2500	1.0730	96600	2015	2740	1810	2460	1510	2055
1 3/8	6	1.3750	1.1550	104000	2385	3245	2145	2915	1785	2430
	12	1.3750	1.3150	118100	2705	3680	2435	3310	2030	2760
1 1/2	6	1.5000	1.4050	126500	3165	4305	2845	3870	2370	3225
	12	1.5000	1.5800	142200	3555	4835	3200	4350	2665	3625

NOTES: 1. THESE TORQUE VALUES DO NOT APPLY TO CADMIUM PLATED FASTENERS

2. ALL TORQUE VALUES ARE STATIC TORQUE MEASURED PER STANDARD AUDIT METHODS TOLERANCE = ±10%

3. * ASSEMBLY USES HARDENED WASHER

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6.4 DIELECTRIC GREASE APPLICATION

Dielectric grease helps to prevent corrosion of electrical contacts and improper conductivity between contacts from moisture intrusion. Non-waterproof connectors benefit from the application of dielectric grease.

Installation

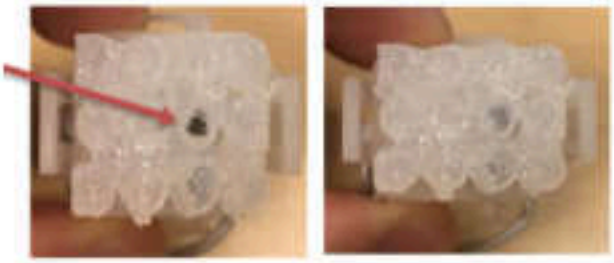
The following is general guidance for the installation of dielectric grease in a connector system.

- Use dielectric grease in a tube for larger connection points or apply with a syringe for small connectors.
- Apply dielectric grease to plug/male connector housing which typically contains sockets contact/female terminals.
- Leave a layer of dielectric grease on the mating face of the connector, completely covering each connector terminal hole. Refer the pictures shown below.
- Assemble the connector system immediately to prevent moisture ingress or dust contamination.

The following connector systems are specifically addressed because of their widespread use at JLG. However, this guidance may be applied to similar devices.

AMP Mate-N-Lok

This connector system is widely used inside enclosures for general-purpose interconnect. Follow the general guidance for installation.



Improper Proper

AMP Faston

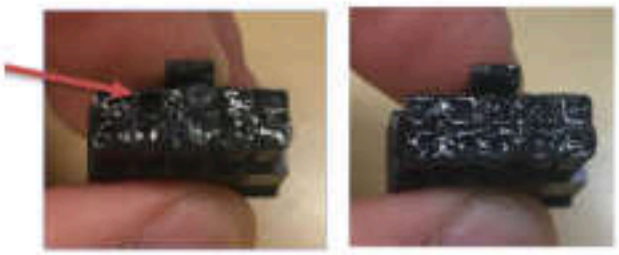
This connector system is typically used on operator switches at JLG. Follow the general guidance for installation.



Improper Proper

AMP Micro-Fit

This connector system is typically used on control modules at JLG. Follow the general guidance for installation.



Improper Proper

AMP Mini Fit Jr

This connector system is typically used on control modules at JLG. Follow the general guidance for installation.



Improper Proper

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