8-8. CYLINDER CHECKING PROCEDURES.

Note

Cylinder checks must be performed any time a cylinder component is replaced or when improper system operation is suspected.

b. **Cylinders w/Single Counterbalance Valves - Lift Cylinder.**

IMPORTANT

OPERATE ALL FUNCTIONS FROM GROUND CONTROL STATION ONLY.

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Table 9-1. Elevation System Troubleshooting.

TROUBLE	PROBABLE CAUSE	REMEDY
Platform Elevation System.		
No response to LIFT control switch.	ENABLE switch not activated.	Activate ENABLE switch.
	LIFT control switch not activated within three seconds after ENABLE switch is activated.	Re-activate ENABLE switch.
	ENABLE switch not functioning properly.	Replace ENABLE switch circuit card.
	LIFT control switch inoperative.	Repair or replace control switch.
	Hydraulic system oil low.	Replenish oil as necessary.
	Restricted or broken supply line on valve bank or hydraulic pump.	Clean, repair or replace line.
	Control valve not functioning properly.	Repair or replace valve.
	Lift cylinder not functioning properly.	Repair or replace cylinder.
	Hydraulic pump not functioning properly.	Repair or replace pump.
Platform will not raise.	ENABLE switch not activated.	Activate ENABLE switch.
	LIFT control switch not activated within three seconds after ENABLE switch is activated.	Re-activate ENABLE switch.
	ENABLE switch not functioning properly.	Replace ENABLE switch circuit card.
	Load capacity exceeded. (Personnel and/or equipment on platform.)	Reduce load. (Refer to capacity placard.)
	Hydraulic system oil low.	Replenish oil as necessary.
	Restricted or broken hydraulic line or fitting.	Clean, repair, or replace line or fitting.
	Control valve not functioning properly.	Repair or replace valve.
	Lift cylinder not functioning properly.	Repair or replace cylinder.
	Motor/Pump does not respond when LIFT control switch is moved to UP position.	Refer to Electrical System Troubleshooting Chart. No response to control switch.
	No electrical signal being sent to LIFT UP control valve cartridge.	Refer to Electrical System Troubleshooting Chart. No response to control switch.
Platform will not lower.	ENABLE switch not activated.	Activate ENABLE switch.
	LIFT control switch not activated within three seconds after ENABLE switch is activated.	Re-activate ENABLE switch.
	ENABLE switch not functioning properly.	Replace ENABLE switch circuit card.

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SECTION 10 RECOMMENDED SERVICE PARTS STOCK
CM2033/CM2046/CM2546/CM2558

The following one year list will service each CM2033, CM2046, CM2546 or CM2558 Sizzor (built to current production as of printing date)with the most commonly used parts. For further information, contact the nearest JLG Representative Center listed on the front cover.

PART NO.	DESCRIPTION	QTY.
	STANDARD	
0961615	Bushing, Bronze (Figure 11-1-1)	4
0961931	Bushing, Fiberglide (Figure 11-1-1)	2
2900699	Seal Kit - Drive Motor (Figure 11-1-2)	2
2900778	Bearing Kit - Rear Axle (Figure 11-1-3)	2
4360057	Limit Switch (Figure 11-1-4)	1
3740069	Relay (Figure 11-2-1 and 11-7-1))	4
7010639	Brush Set (Figure 11-2-1)	2
7010944	Flex Coupling Kit (Figure 11-2-1)	1
4360202	Switch, Toggle (Figure 11-2-1)	1
4360290	Switch, Key (Figure 11-2-1)	1
4360267	Block, Contact (Figure 11-2-1 and 11-4-6)	1
4360281	Block, Contact (Figure 11-2-1)	1
4360070	Breaker, Circuit (Figure 11-2-1)	1
4360155	Switch, Master (Figure 11-2-1)	1
2120072	Element, Filter (Figure 11-2-1)	4
1340052	Breather, Air (Figure 11-2-1)	1
7012726	Coil - Rexroth (Figure 11-2-3)	1
7012732	Coil - Rexroth (Figure 11-2-3)	1
7012725	Seal Kit - Rexroth Valve (Figure 11-2-3 and 11-2-4)	2
7012900	Coil - 20 Volt (Figure 11-2-3 11-2-4 and 11-2-5)	1
7012930	Check Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7010544	Flow Control Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012933	Needle Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7004361	Load Control Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012934	Sequence Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012931	Relief Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012932	Relief Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012920	Solenoid Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012919	Solenoid Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7012929	Flow Divider Valve Cartridge (Figure 11-2-3 and 11-2-4)	1
7011508	Fuse - 15 Amp (Figure 11-2-7)	1
7011509	Breaker, Circuit (Figure 11-2-7)	1
7011518	Controller (Figure 11-2-7)	1
0961481	Bushing, Bronze (Figure 11-3-1 and 11-3-2)	40
4360339	Switch, Push Button (Figure 11-4-7)	1
4360289	Switch, Push/Pull (Figure 11-4-7)	1
4360318	Switch, Toggle (Figure 11-4-7)	1
4360274	Switch, Push Button (Figure 11-4-7)	1
2901160	Seal Kit - Brake (Figure 11-5-2)	2
1060377	Cable, Pull (Figure 11-5-3)	1
4640381	Solenoid Holding Cartridge (Figure 11-5-3)	1
4640717	Pull Control Cartridge (Figure 11-5-3)	1
0961520	Bushing, Bronze - Lift Cylinder Rod (Figure 11-5-3)	1
0961519	Bushing, Bronze - Lift Cylinder Barrel (Figure 11-5-3)	1
2901178	Seal Kit - Steer Cylinder (Figure 11-5-5)	1
3990010	Diode - 6 Amp (Figure 11-7-1)	3

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SECTION 11-1 FRAME

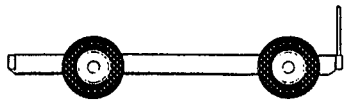


FIGURE & ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV.
11—1—1		**FRAME, STEERING AND DRIVE INSTALLATION**	Ref.	
		FRAME WELDMENTS (PRIOR TO MARCH 1992)	Ref.	
	2360323	Frame - Standard (Model CM2033)	1	
	2360342	Frame - Optional with Lifting Lugs (Model CM2033)	1	
	2360327	Frame - Standard (Models CM2046 and CM2546)	1	
	2360354	Frame - Optional with Lifting Lugs (Models CM2046 and CM2546)	1	
	2360328	Frame - Standard (Model CM2558)	1	
		All Frames Include:		
—1	0961482	Bushing, Bronze	2	
		FRAME WELDMENTS (MARCH 1992 TO PRESENT)	Ref.	
	2360343	Frame - Standard (Model CM2033)	1	
	2360346	Frame - Optional with Lifting Lugs (Model CM2033)	1	
	2360355	Frame - Standard (Model CM2046 and CM2546)	1	
	2360359	Frame - Optional with Lifting Lugs (Model CM2046 and CM2546)	1	
	2360356	Frame - Standard (Model CM2558)	1	
	2360362	Frame - Optional with Lifting Lug (Model CM2558)	1	
		All Frames Include:		
—1	0961615	Bushing, Bronze (Model CM2046, CM2546 and CM2558)	4	
	0961626	Bushing, Bronze (Model CM2033)	4	
		STEERING AND DRIVE INSTALLATION (STANDARD PARTS)	Ref.	
—101	2780165	Hub	2	
—102	1682996	Steer Cylinder Assembly - CM2033 Prior to August 1995 (See Section 11-5 for Breakdown)	1	
	1682997	Steer Cylinder Assembly - CM2046, CM2546 and CM2558 Prior to August 1995 (See Section 11-5 for Breakdown)	1	
	1683408	Steer Cylinder Assembly - All Machines August 1995 to Present (See Section 11-5 for Breakdown)	1	
—103	3430612	Pin, Clevis 3/8" (.8cm) x 1 1/2" (3.8cm)	2	
—104	3450404	Pin, Cotter 1/8" (.3cm) x 1" (2.5cm)	2	
—105	0630305	Bolt, Wheel	10	
—106	0641618	Bolt 3/8"-16NC x 2 1/4" (Front Location)	2	
—107	3311605	Locknut 3/8"-16NC	4	
—108	4711600	Flatwasher 3/8" Narrow	4	
—109	3450406	Pin, Cotter 1/8" (.3cm) x 1 1/2" (3.8 cm)	2	
—110	4761800	Lockwasher 1/2"	8	
—111	0361928	Rod, Adjusting	2	
—112	3322202	Nut, Jam 3/4"-16NF	2	
—113	4752000	Flatwasher 5/8"	2	
—114	0100011	Loctite	A/R	
—115	0641612	Bolt 3/8"-16NC x 1 1/2" (Rear Location)	2	
—116	4070769	Shim, Cylinder Mounting	1	
—117	3020010	Lubricant, "Neverseez"	A/R	

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SECTION 11-2 GROUND COMPONENTS
CM2033/CM2046/CM2546/CM2558

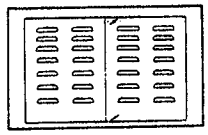


FIGURE & ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV.
11—2—2	4640657	**CONTROL VALVE ASSEMBLY - HYDRO-AIR (MACHINES WITH BANG-BANG DRIVE BUILT PRIOR TO JUNE 1992)**	Ref.	A
		NOTE: IDENTIFY BY P/N STAMPED ON THE FOLLOWING COMPONENTS BEFORE ORDERING REPLACEMENT PARTS. SHAPE OF COMPONENTS MAY VARY.		
—1	4640737	Rexroth Directional Valve Assembly (Drive)	1	
	7012726	Coil (Rexroth)	2	
	7012725	Seal Kit (Rexroth)	1	
	Not Available	Vickers Directional Valve Assembly (Drive) (No Longer Available Replace with P/N 4640737)	1	
	7010534	Coil (Vickers)	2	
—2	4640737	Rexroth Directional Valve Assembly (Lift/Hi-Drive)	1	
	7012726	Coil (Rexroth)	2	
	7012725	Seal Kit (Rexroth)	1	
	Not Available	Vickers Directional Valve Assembly (Lift/Hi-Drive) (No Longer Available. Replace with P/N 4640737)	1	
	7010534	Coil (Vickers)	2	
—3	4640740	Rexroth Directional Valve Assembly (Steer)	1	
	7012727	Coil (Rexroth)	2	
	7012725	Seal Kit (Rexroth)	1	
	Not Available	Vickers Directional Valve Assembly (Steer) (No Longer Available. Replace with P/N 4640740)	1	
	7010534	Coil (Vickers)	2	
—4	7012900	Coil - 20 Volt (Hydraforce)	2	
	7004370	Coil - 18 Volt (Vickers/Modular Controls)	2	
—5	Not Used			
—6	7010561	Valve, Check (Vickers/Modular Controls CV1-10-B-05)	1	
	2900503	Seal Kit (Vickers/Modular Controls CV1-10-B-05)	1	
	7012930	Valve, Check (Hydraforce CV10-20-0-N-5)	1	
	2900756	Seal Kit (Hydraforce CV10-20-0-N-5)	1	
—7	7010565	Valve, Flow Control (Vickers/Modular Controls FCV6-10-S-0-FF) (Brake Speed and Lift/Lower Speed Adjustments)	2	
	2900503	Seal Kit (Vickers/Modular Controls FCV6-10-S-0-FF) (1 Per Cartridge)	2	
	7010544	Valve, Flow Control (Hydraforce FC10-20A-0-N) (Brake Speed and Lift/Lower Speed Adjustments)	2	
	7012901	Seal Kit (Hydraforce FC10-20A-0-N) (1 Per Cartridge)	2	
—8	7010567	Valve, Needle (Vickers/Modular Controls FCV6-10-S-0-NV) (Tow and Creep Adjustments)	2	
	2900502	Seal Kit (Vickers/Modular Controls FCV6-10-S-0-NV) (1 Per Cartridge)	2	
	7012933	Valve, Needle (Hydraforce NV10-20A-0-N) (Tow and Creep Adjustments)	2	
	7012901	Seal Kit (Hydraforce NV10-20A-0-N) (1 Per Cartridge)	2	

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FIGURE 11-7-2. ELECTRICAL DIAGRAM -TOGGLE SWITCH DRIVE.



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FIGURE 11-6-1 HYDRAULIC DIAGRAM - BANG-BANG DRIVE.





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All procedures herein are based on the use of the machine under proper operating conditions, with no deviations from original design intent ... as per OSHA regulations.

READ & HEED!

The ownership, use, service, and/or maintenance of this machine is subject to various federal, state and local laws and regulations. It is the responsibility of the owner/user to be knowledgeable of these laws and regulations and to comply with them. The most prevalent regulations of this type are the Federal OSHA Safety Regulations*. Listed below, in abbreviated form are some of the requirements of Federal OSHA regulations in effect as of the date of publication of this handbook.

The listing of these requirements shall not relieve the owner/user of the responsibility and obligation to determine all applicable laws and regulations and their exact wording and requirements, and to comply with the requirements. Nor shall the listing of these requirements constitute an assumption of responsibility of liability on the part of JLG Industries, Inc.

1. Only trained and authorized operators shall be permitted to operate the aerial lift.
2. A malfunctioning lift shall be shut down until repaired.
3. The controls shall be plainly marked as to their function.
4. The controls shall be tested each day prior to use to determine that they are in safe operating condition.
5. When applicable to local regulations or job site/employer safety rules, all personnel in the platform shall wear an approved safety belt with the lanyard attached to the platform attachment point.
6. Load limits specified by the manufacturer shall not be exceeded.
7. Instruction and warning placards must be legible.
8. Aerial lifts may be "field modified" for uses other than those intended by the manufacturer only if certified in writing by the manufacturer or an equivalent entity, such as a nationally recognized testing lab, to be in conformity to applicable OSHA safety regulations and to be at least as safe as it was prior to modification.
9. Aerial lifts shall not be used near electric power lines unless the lines have been deenergized or adequate clearance is maintained (see OSHA 20 CFR 1910.67 and 1926.400).
10. Employees using aerial lifts shall be instructed how to recognize and avoid unsafe conditions and hazards.
11. Ground controls shall not be operated unless permission has been obtained from personnel in the platform, except in case of an emergency.
12. Regular inspection of the job site and aerial lift shall be performed by competent persons.
13. Personnel shall always stand on the floor of the platform, not on boxes, planks, railing or other devices for a work position.

*Applicable Federal OSHA regulations, as of the date of publication of this manual include, but are not limited to, 29 CFR 1910.67, 29 CFR 1926.20, 29 CFR 1926.21, 29 CFR 1926.28, 29 CFR 1926.400 and 29 CFR 1926.556. Consult the current regulations for the exact wording and full text of the requirements and contact the closest Federal OSHA office for specific interpretations.

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A. GENERAL.

1. This section contains the general safety precautions which must be observed during maintenance of the aerial platform. It is of utmost importance that maintenance personnel pay strict attention to these warnings and precautions to avoid possible injury to themselves or others or damage to the equipment. A maintenance program must be established by a qualified person and must be followed to ensure that the machine is safe to operate.

WARNING

MODIFICATION OF THE MACHINE WITHOUT CERTIFICATION BY A RESPONSIBLE AUTHORITY THAT THE MACHINE IS AT LEAST AS SAFE AS ORIGINALLY MANUFACTURED IS A SAFETY VIOLATION.

2. The specific precautions to be observed during machine maintenance are inserted at the appropriate point in the manual. These precautions are, for the most part, those that apply when servicing hydraulic and larger machine component parts.

3. Your safety, and that of others, is the first consideration when engaging in the maintenance of equipment. Always be conscious of weight.

   Never attempt to move heavy parts without the aid of a mechanical device. Do not allow heavy objects to rest in an unstable position. When raising a portion of the equipment, ensure that adequate support is provided.

WARNING

SINCE THE MACHINE MANUFACTURER HAS NO DIRECT CONTROL OVER THE FIELD INSPECTION AND MAINTENANCE, SAFETY IN THIS AREA IS THE RESPONSIBILITY OF THE OWNER/OPERATOR.

B. HYDRAULIC SYSTEM SAFETY.

1. It should be particularly noted that the machines hydraulic systems operate at extremely high and potentially dangerous pressures. Every effort should be made to relieve any system pressure prior to disconnecting or removing any portion of the system.

2. Relieve system pressure by cycling the applicable control several times with the engine stopped and ignition on, to direct any line pressure back into the return line to the reservoir. Pressure feed lines to system components can then be disconnected with minimal fluid loss.

C. MAINTENANCE.

WARNING

FAILURE TO COMPLY WITH SAFETY PRECAUTIONS LISTED IN THIS SECTION MAY RESULT IN MACHINE DAMAGE, PERSONNEL INJURY OR DEATH AND IS A SAFETY VIOLATION.

REMOVE ALL RINGS, WATCHES, AND JEWELRY WHEN PERFORMING ANY MAINTENANCE.

DO NOT WEAR LONG HAIR UNRESTRAINED, OR LOOSE FITTING CLOTHING AND NECKTIES WHICH ARE APT TO BECOME CAUGHT ON OR ENTANGLED IN EQUIPMENT.

OBSERVE AND OBEY ALL WARNINGS AND CAUTIONS ON MACHINE AND IN SERVICE MANUAL.

KEEP OIL, GREASE, WATER, ETC. WIPED FROM STANDING SURFACES AND HAND HOLDS.

NEVER WORK UNDER AN ELEVATED PLATFORM UNTIL SAFETY PROPS HAVE BEEN ENGAGED OR PLATFORM HAS BEEN SAFELY RESTRAINED FROM ANY MOVEMENT BY BLOCKING OR OVERHEAD SLING.

BEFORE MAKING ADJUSTMENTS, LUBRICATING OR PERFORMING ANY OTHER MAINTENANCE, SHUT OFF ALL POWER CONTROLS.

BATTERY SHOULD ALWAYS BE DISCONNECTED DURING REPLACEMENT OF ELECTRICAL COMPONENTS.

KEEP ALL SUPPORT EQUIPMENT AND ATTACHMENTS STOWED IN THEIR PROPER PLACE.

USE ONLY APPROVED, NONFLAMMABLE CLEANING SOLVENTS.

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Table 9-4. Electrical System Troubleshooting.

TROUBLE	PROBABLE CAUSE	REMEDY
Hand Controller.		
Valve will not function when handle is moved in either direction.	ENABLE switch not activated.	Activate ENABLE switch.
	Controller not activated within three seconds after ENABLE switch is activated.	Re-activate ENABLE switch.
	ENABLE switch not functioning properly.	Replace ENABLE switch circuit card.
	No electrical power to handle.	Check electrical input to hand controller (12V).
	No electrical power to valve.	Check electrical output of printed circuit board and electrical signal at the valve.
	Improper ground.	Check for proper grounding of handle.
Control Switches.		
No response to a function control switch.	ENABLE switch not activated.	Activate ENABLE switch.
	Control switch not activated within three seconds after ENABLE switch is activated.	Re-activate ENABLE switch.
	ENABLE switch not functioning properly.	Replace ENABLE switch circuit card.
	EMERGENCY STOP switch not positioned properly.	Place EMERGENCY STOP switch to **"ON"**.
	POWER SELECTOR switch on GROUND control box not positioned properly.	Place POWER SELECTOR switch to PLATFORM or GROUND, as required.
	Battery charger connected and in service.	Disconnect battery charger.
	Circuit breaker open.	Determine and correct cause. Reset circuit breaker.
	Batteries defective or require charging.	Test batteries for serviceability. Replace or charge batteries as necessary.
	No voltage present at EMERGENCY STOP switch.	Check battery cable from battery bank to EMERGENCY STOP switch for proper connection or damage. Repair or replace cable as necessary.
	EMERGENCY STOP switch not functioning properly.	Replace switch.
	No voltage supplied to electric motor start relay from EMERGENCY STOP switch.	Check battery cable from switch to relay for proper connection or damage. Repair or replace cable as necessary.
	No voltage input at terminal strip.	Check wire from battery bank to terminal strip for proper connection or damage. Repair or replace wire as necessary.

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SECTION 11-4 PLATFORM

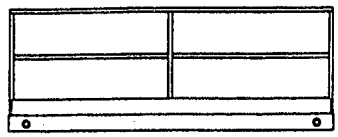


FIGURE & ITEM NO	PART NUMBER	DESCRIPTION	QTY.	REV.
11—4—1		**STANDARD HANDRAILS AND ACCESSORIES INSTALLATION (CONTINUED)**	Ref.	
	0253476	**OPTIONAL ROTATING BEACON LIGHT INSTALLATION - CM2033/2046 (VARIABLE PARTS)**	Ref.	—
	0253477	**OPTIONAL ROTATING BEACON LIGHT INSTALLATION - CM2033/2046 (U/L) (VARIABLE PARTS)**	Ref.	—
	0253478	**OPTIONAL ROTATING BEACON LIGHT INSTALLATION - CM2546/2558 (VARIABLE PARTS)**	Ref.	—
	0253479	**OPTIONAL ROTATING BEACON LIGHT INSTALLATION - CM2546/2558 (U/L) (VARIABLE PARTS)**	Ref.	—
—251	2920087	Light, Beacon - Standard	1	
	2920092	Light, Beacon - U/L Approved (Not Shown)	1	
	0253504	**OPTIONAL WORKLIGHTS INSTALLATION - CM2033/2046 (VARIABLE PARTS)**	Ref.	—
	0253505	**OPTIONAL WORKLIGHTS INSTALLATION - CM2033/2046 (U/L) (VARIABLE PARTS)**	Ref.	—
	0253506	**OPTIONAL WORKLIGHTS INSTALLATION - CM2546/2558 (VARIABLE PARTS)**	Ref.	—
	0253507	**OPTIONAL WORKLIGHTS INSTALLATION - CM2546/2558 (U/L) (VARIABLE PARTS)**	Ref.	—
—301	2920088	Worklight (Standard Machines Built Prior to August 1992)	2	
	2920093	Worklight (Standard Machines Built August 1992 to Present and All U/L Approved Machines)	2	
	0253544	**OPTIONAL HARNESS ATTACH RINGS INSTALLATION**	Ref.	—
—401	3534309	Plate, Ring Attach	2	
—402	3760274	Ring, Lanyard	2	

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